NEW BUILDING

THE LANDING 3.0

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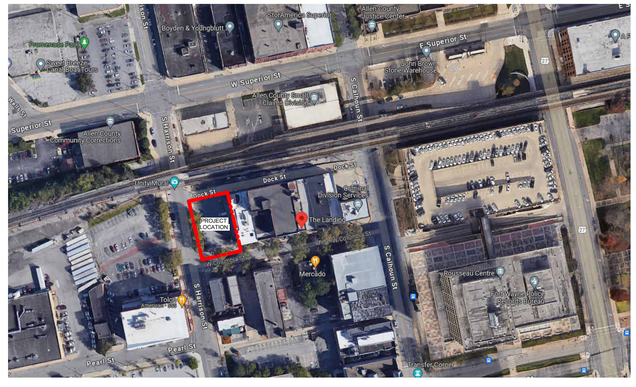
RADON MITIGATION SYSTEM
R-100 RADON MITIGATION SYSTEM



SITE LOCATION MAP

SET #

09.13.2024 BID DRAWINGS

23029 - THE LANDING 3.0

DRAWING CONTENTS:
COVER SHEET

ISSUE DATE: 09.13.2024
PROJECT NO. 23029
DRAWING NO. G-001

BOUNDARY & TOPOGRAPHIC SURVEY

IN THE SOUTHEAST QUARTER OF SECTION 2, TOWNSHIP 30 NORTH, RANGE 12 EAST, CITY OF FORT WAYNE, ALLEN COUNTY, INDIANA

LEGAL DESCRIPTION PROVIDED:

80' W OF E 40 FT SP W OF LOT 154 ORIGINAL PLAT ADD, COMMONLY KNOWN AS 555 SOUTH HARRISON STREET, MORE ACCURATELY DESCRIBED AS:

ALL THAT PART OF THE SOUTHEAST 1/4 OF SECTION 2, TOWNSHIP 30 NORTH, RANGE 12 EAST, DESCRIBED AS FOLLOWS:

BEGINNING AT THE NORTHEAST CORNER OF HARRISON AND COLUMBIA STREETS, IN THE CITY OF FORT WAYNE, INDIANA; THENCE EAST ALONG THE NORTH LINE OF COLUMBIA STREET APPROXIMATELY 40 FEET TO THE CENTER OF THE PARTY WALL; THENCE NORTH AND PARALLEL WITH HARRISON STREET THROUGH THE CENTER OF THE PARTY WALL 110 FEET; THENCE WEST AND PARALLEL WITH COLUMBIA STREET APPROXIMATELY 40 FEET TO THE EAST LINE OF HARRISON STREET; THENCE SOUTH ALONG THE EAST LINE OF HARRISON STREET 110 FEET TO THE PLACE OF BEGINNING, IN THE CITY OF FORT WAYNE.

ALSO:

THAT PORTION OF THE SOUTH EAST 1/4 OF SECTION 2, TOWNSHIP 30 NORTH, RANGE 12 EAST DESCRIBED AS FOLLOWS:

BEGINNING AT A POINT ON THE NORTH LINE OF COLUMBIA STREET 40 FEET EAST OF THE NORTH EAST CORNER OF HARRISON AND COLUMBIA STREETS IN THE CITY OF FORT WAYNE, INDIANA; THENCE EAST ALONG THE NORTH LINE OF COLUMBIA STREET 40 FEET; THENCE NORTH AND PARALLEL WITH THE EAST LINE OF HARRISON STREET THRU THE CENTER OF A PARTY WALL 110 FEET TO THE SOUTH LINE OF DOCK STREET; THENCE WEST ALONG SAID SOUTH LINE OF DOCK STREET 40 FEET; THENCE SOUTH AND PARALLEL WITH THE EAST LINE OF HARRISON STREET THRU THE CENTER OF A PARTY WALL 110 FEET TO THE PLACE OF BEGINNING.

SUBJECT TO ANY AND ALL EASEMENTS AND RESTRICTIONS OF RECORD, OR OTHERWISE.

SUBJECT TO ANY FACTS THAT MAY BE DISCLOSED IN A FULL AND ACCURATE TITLE SEARCH.

BEARINGS ARE BASED ON THE INDIANA STATE PLANE COORDINATE SYSTEM, EAST ZONE, US FOOT.

THE RELATIVE POSITIONAL PRECISION OF EACH CORNER IS WITHIN THE LIMITS ACCEPTED BY THE PRACTICE OF PROFESSIONAL SURVEYING IN MICHIGAN.

LEGEND

Symbol	Meaning	Symbol	Meaning
●	= FOUND IRON (AS NOTED)		= GUY ANCHOR
(c)	= CALCULATED	(ST)	= STORM MANHOLE
(r)	= RECORDED	(SA)	= SANITARY MANHOLE
	= UTILITY POLE	CB	= CATCH BASIN
	= LIGHT POLE		= BIKE PUMP STATION
	= YARD LAMP	•	= POST, BOLLARD
	= ELECTRIC RISER BOX		= DECIDUOUS TREE
HH	= ELECTRIC MANHOLE	NAVD88	= NORTH AMERICAN VERTICAL DATUM OF 1988
⊕	= CONTROL PAD	PVC	= POLYVINYL CHLORIDE (PLASTIC)
	= WATER VALVE	CCP	= CONCRETE CYLINDER PIPE
(MH)	= MANHOLE	(TGR)	= TREE GRATE
EM	= ELECTRIC METER	(BR)	= BICYCLE RACK
		×762.44	= SPOT ELEVATION

—— OHE —— = OVERHEAD UTILITY LINES

—— E —— = APPROXIMATE BURIED ELECTRIC LOCATION

—— ST —— = APPROXIMATE STORM SEWER LOCATION

STORM SEWER INFORMATION

STMH 1
NORTH RIM: 762.30'
NORTHEAST = 754.80'
SOUTH = 754.70'

STMH 2
RIM = 761.10'
INV = 754.00'

CATCH BASIN INFORMATION

CB 1
NORTH RIM: 761.83'
INV 8" CPP
EAST = 759.43'
"BOTTOM FULL OF DEBRIS"

CB 2
NORTH RIM: 761.57'

CB 3
NORTH RIM = 761.43'
INV 16" PVC NORTH = 756.53'
INV 16" PVC WEST = 756.43'
INV 6" PVC SOUTH = 756.93'

CB 4
NORTH RIM = 760.94'
INV 16" PVC
EAST = 758.04'
SOUTH = 757.94'

CB 5
NORTH RIM = 763.28'
INV 16" PVC WEST = 758.28'
INV 10" PVC EAST = 758.68'

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STATE OF
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06/17/2024
DATE

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FORT WAYNE, IN 46802

MODEL GROUP
1826 RACE STREET
CINCINNATI, OH 45202

06/17/2024 ADDITIONAL TOPO
REVISIONS

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DATE: MARCH 5, 2024
SCALE: 1" = 10'
DRAWN BY: HAP
CHECKED BY: TMJ

BOUNDARY & TOPOGRAPHIC SURVEY

JOB No. 240126
1 OF 1

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Key Plan:

THE LANDING 3.0

NEW CONSTRUCTION
Fort Wayne, Indiana

REVISION

No.	Date	Revision

DRAWING CONTENTS:
BOUNDARY AND TOPOGRAPHIC SURVEY

ISSUE DATE: 09.13.2024
PROJECT NO. 23029

DRAWING NO.
C-001

September 11, 2024 11:03 AM
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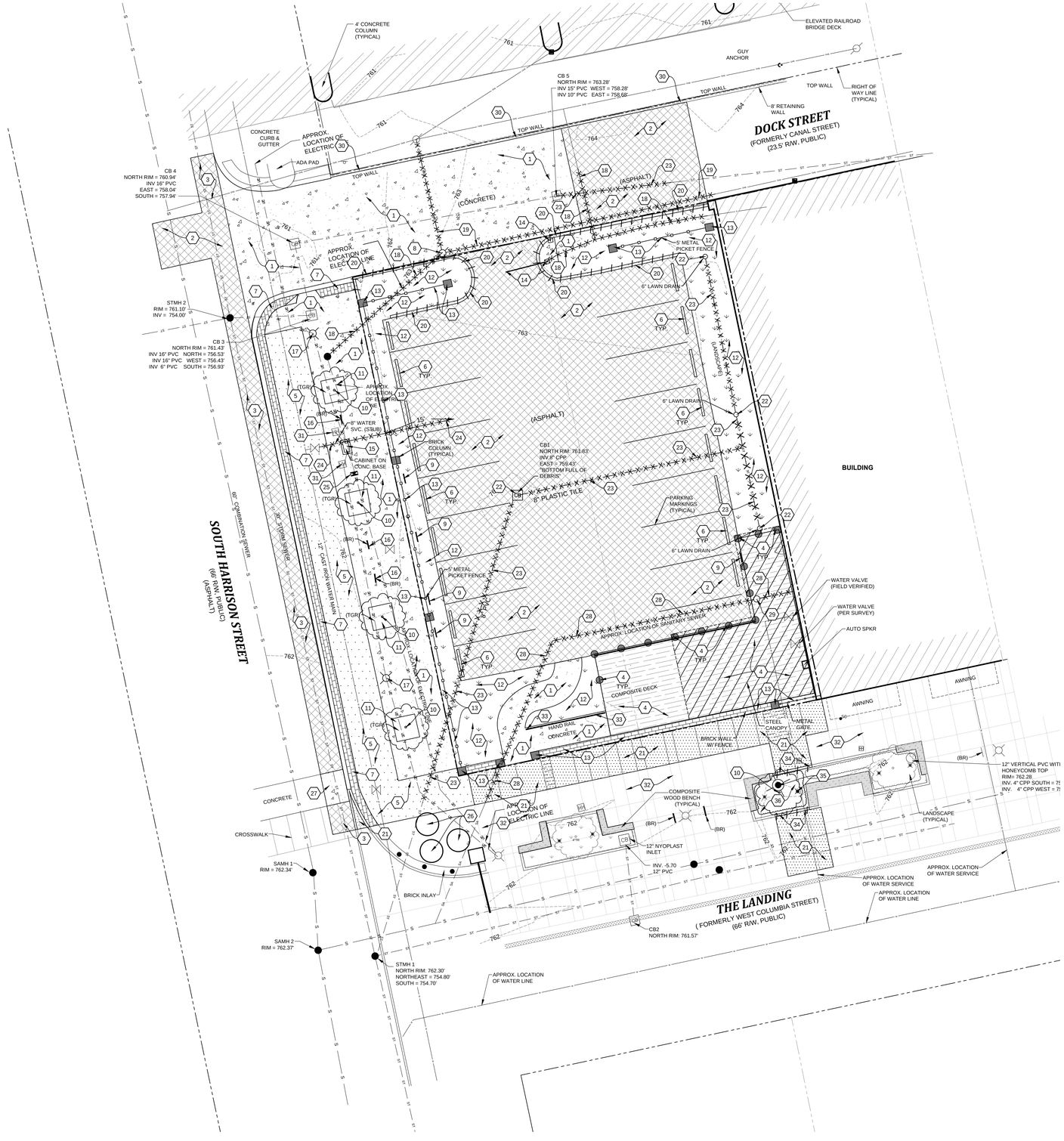

SITE DEMOLITION PLAN

1" = 10'-0"

NORTH

DEMOLITION LEGEND:

- SAWCUT AND REMOVE ASPHALT PAVEMENT.
- SAWCUT AND REMOVE CONCRETE SIDEWALK, DRIVE, OR SLAB.
- REMOVE PAVERS AND CONCRETE BASE.
- SAWCUT AND REMOVE LANDING PLAZA SPECIALTY CONCRETE PAVEMENT TO NEAREST JOINT.
- REMOVE WOODEN DECK IN ITS ENTIRETY.
- SAWCUT AND REMOVE CONCRETE CURB.
- REMOVE OR ABANDON UTILITY, AS REQUIRED, FOR NEW CONSTRUCTION. COORDINATE ALL WORK WITH UTILITY OWNER.

DEMOLITION NOTES:

1. SAWCUT AND REMOVE CONCRETE SIDEWALK/PAVEMENT.
2. SAWCUT AND REMOVE ASPHALT PAVEMENT.
3. SAWCUT AND REMOVE 5'-0" OF ASPHALT PAVEMENT TO PROVIDE CLEAN EDGE.
4. REMOVE WOODEN DECK / CANOPY IN ITS ENTIRETY, INCLUDING CONCRETE FOUNDATIONS.
5. REMOVE PAVERS AND AGGREGATE BASE.
6. REMOVE PARKING BUMPER.
7. REMOVE BRICK AND CONCRETE BASE.
8. REMOVE POWER POLE. SEE SITE ELECTRICAL PLAN FOR ADDITIONAL INFORMATION.
9. REMOVE SIGN.
10. REMOVE TREE(S), INCLUDING ROOT BALLS.
11. REMOVE METAL TREE GRATE.
12. REMOVE LANDSCAPE BED IN ITS ENTIRETY.
13. REMOVE BRICK AND DECORATIVE IRON FENCE, INCLUDING FOUNDATIONS.
14. REMOVE GATE AND ASSOCIATED EQUIPMENT, INCLUDING FOUNDATIONS.
15. REMOVE AND SALVAGE TRAFFIC CONTROL CABINET. REMOVE CONCRETE FOUNDATION. RESET CABINET AFTER CONSTRUCTION IS COMPLETE - SEE SITE LAYOUT PLAN AND SITE ELECTRICAL PLAN FOR INFORMATION.
16. REMOVE AND SALVAGE BIKE RACK. RESET BIKE RACK AFTER CONSTRUCTION IS COMPLETE - SEE SITE LAYOUT PLAN FOR PROPOSED LOCATION.
17. REMOVE AND SALVAGE LIGHT POLE. REMOVE FOUNDATION. RESET LIGHT POLE ON NEW FOUNDATION - SEE SITE ELECTRICAL PLAN FOR INFORMATION. EXISTING UNDERGROUND ELECTRIC SHALL REMAIN - PROTECT DURING CONSTRUCTION.
18. REMOVE UNDERGROUND ELECTRIC LINE. SEE SITE ELECTRICAL PLAN FOR ADDITIONAL INFORMATION.
19. RELOCATE OVERHEAD ELECTRIC LINE. SEE SITE ELECTRICAL PLAN FOR ADDITIONAL INFORMATION.
20. SAWCUT AND REMOVE CONCRETE CURB.
21. SAWCUT AND REMOVE LANDING PLAZA SPECIALTY CONCRETE PAVEMENT TO NEAREST JOINT.
22. REMOVE STORM STRUCTURE.
23. REMOVE STORM SEWER.
24. REMOVE WATER LINE.
25. REMOVE AND SALVAGE BIKE REPAIR STATION. RESET BIKE REPAIR STATION - SEE SITE LAYOUT PLAN FOR PROPOSED LOCATION.
26. REMOVE PLANTERS AND RETURN TO THE CITY OF FORT WAYNE.
27. REMOVE AND REPLACE TABLE TOP CROSSING CONCRETE PAVEMENT TO NEAREST SCORE LINE.
28. REMOVE SANITARY SEWER SERVICE. CAP EXISTING LINE TO REMAIN.
29. REMOVE SANITARY CLEANOUT.
30. RETAINING WALL TO REMAIN. PROTECT FROM DAMAGE DURING CONSTRUCTION.
31. ADJUST HANDHOLE TO GRADE - SEE SITE GRADING PLAN FOR INFORMATION.
32. PROTECT EXISTING LANDING PAVEMENT FROM DAMAGE DURING CONSTRUCTION. IF DAMAGE OCCURS, REPLACE IN KIND.
33. REMOVE HANDRAIL.
34. SAWCUT AND REMOVE CAST IN PLACE CURB WITH THICKENED CONCRETE EDGE.
35. REMOVE AND RESET LIGHT FIXTURE AND ASSOCIATED ELECTRICAL WIRING AS REQUIRED TO INSTALL SANITARY SEWER LINE.
36. REMOVE LANDSCAPE PLANTINGS AS NEEDED FOR INSTALLATION OF SANITARY SEWER.

GENERAL NOTES:

1. OBTAIN ALL REQUIRED PERMITS AND COORDINATE INSPECTIONS FROM AUTHORITIES HAVING JURISDICTION.
2. CONTRACTOR SHALL NOT INTERRUPT ANY SERVICE TO ADJACENT PROPERTIES WITHOUT WRITTEN AUTHORIZATION FROM PROPERTY OWNER. AN EMERGENCY PLAN SHALL BE PROVIDED TO THE ENGINEER PRIOR TO CONSTRUCTION TO OUTLINE CORRECTIVE MEASURES IN THE EVENT OF ANY UNAUTHORIZED UTILITY SHUTDOWN.
3. CONTRACTOR SHALL STUDY ALL DRAWINGS PRIOR TO CONSTRUCTION. RESEARCH PUBLIC UTILITY RECORDS, CONTACT THE LOCAL UTILITY LOCATOR SERVICE, AND FIELD VERIFY ALL EXISTING STRUCTURES PRIOR TO CONSTRUCTION. CONTACT ENGINEER FOR DIRECTION IF EXISTING UTILITY CONDITIONS CONFLICT WITH PROPOSED WORK, OR ANY ALTERATIONS SHALL BE THE CONTRACTORS RESPONSIBILITY.
4. EXISTING UTILITIES ARE APPROXIMATIONS BASED ON BEST AVAILABLE DATA. CAUTION SHALL BE EXERCISED TO NOT INTERRUPT SERVICE TO ANY BUILDING. EXPLORATORY TRENCH TO VERIFY DEPTH AND LOCATION OF SEWERS PRIOR TO CONSTRUCTION OF NEW SEWER UTILITIES. ASSURE ALL SANITARY FLOW IS DIRECTED INTO THE SANITARY SEWER ON-SITE AND ALL STORM WATER IS DIRECTED INTO THE STORM SEWER SYSTEM.
5. CONTRACTOR IS RESPONSIBLE FOR ALL COORDINATION REQUIRED BY UTILITY OWNERS TO CONSTRUCT PROJECT.
6. PROVIDE RECORD DRAWINGS TO THE OWNER FOR BELOW GRADE IMPROVEMENTS. INCLUDE: MATERIALS OF CONSTRUCTION, SIZE, ELEVATIONS, AND LOCATION DESCRIPTIONS IN THE RECORD. RECORD DRAWINGS SHALL BE CERTIFIED BY A LAND SURVEYOR REGISTERED IN THE STATE OF INDIANA.
7. CONTRACTOR SHALL COORDINATE WITH EACH UTILITY PROVIDER TO DETERMINE TOTAL COST OF SERVICE TO BUILDING AND TO INCLUDE IN THE COST OF THE PROJECT.
8. CONTRACTOR SHALL LOCATE ALL PRIVATE UTILITIES NOT COVERED BY THE PUBLIC LOCATING SERVICE.
9. CONSTRUCTION DE-WATERING AS NECESSARY BY CONTRACTOR.
10. ADJUST ANY EXISTING MANHOLES, VALVES, HYDRANTS, AND HANDHOLES, LOCATED WITHIN PROJECT LIMITS, TO PROPOSED GRADES.
11. CONTRACTOR SHALL SUPPORT AND PROTECT ALL EXISTING UTILITIES DURING CONSTRUCTION OF ADJACENT WORK.
12. SEE SITE SURVEY FOR EXISTING CONDITIONS. IF ABANDONED WELLS ARE DISCOVERED ON THE PROPERTY, THEY MUST BE CAPPED BY A LICENSED WELL DRILL DRILLER ACCORDING TO INDIANA WELL DRILLING CODES AND REGULATIONS.
13. COORDINATE ALL DEMOLITION WORK WITH OWNER.
14. CONTRACTOR IS RESPONSIBLE FOR ALL PERMIT FEES, TAPPING FEES, INSPECTION FEES, ETC.
15. IF ANY PREHISTORIC OR HISTORIC ARCHAEOLOGICAL ARTIFACTS OR HUMAN REMAINS ARE UNCOVERED DURING CONSTRUCTION, DEMOLITION, OR EARTHMOVING ACTIVITIES, STATE LAW (INDIANA CODE 14-21-1-27 AND 29) REQUIRES THAT THE DISCOVERY MUST BE REPORTED TO THE DEPARTMENT OF NATURAL RESOURCES WITHIN (2) BUSINESS DAYS. IN THAT EVENT, PLEASE CALL (317) 232-1646. BE ADVISED THAT ADHERENCE TO INDIANA CODE 14-21-1-27 AND 29 DOES NOT OBVIATE THE NEED TO ADHERE TO APPLICABLE FEDERAL STATUTES AND REGULATIONS, INCLUDING BUT NOT LIMITED TO 36 C.F.R. 800.

Indiana 811
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09-13-2024
BID SET

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Key Plan:

THE LANDING 3.0

NEW CONSTRUCTION
Fort Wayne, Indiana

REVISION		
No.	Date	Revision

DRAWING CONTENTS:
SITE DEMOLITION PLAN

ISSUE DATE:	PROJECT NO.
09.13.2024	23029

DRAWING NO.
C-101

September 12, 2024 11:03 AM
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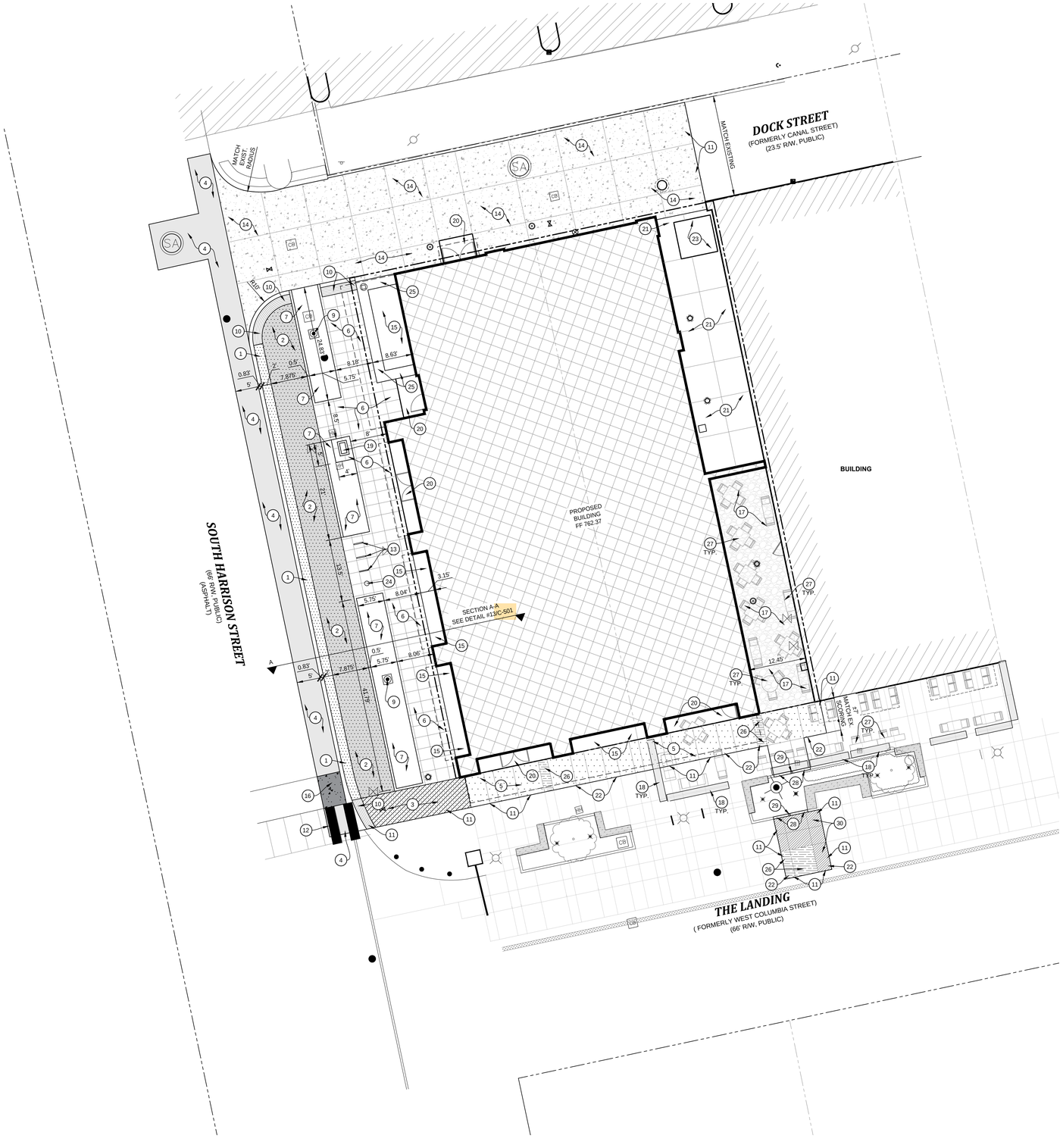

SITE LAYOUT PLAN

1" = 10'-0"

NORTH

LAYOUT LEGEND:

- BRICK, PAVERS TYPE "I" PER DETAIL #3/C-501.
- PAVERS, TYPE "II" URBAN TRAIL PAVER PER DETAILS #5/C-501 AND #7/C-501.
- PAVERS, TYPE "III" TRANSITION AREA PAVER PER DETAILS #5/C-501 AND #8/C-501.
- PCCP, 7" PER DETAIL #6/C-501.
- ASPHALT PAVEMENT PER DETAIL #1/C-501.
- LANDING SPECIALTY PAVEMENT WITH LIGHT GRANIFLEX COATING BLEND PER DETAILS #12/C-501 AND #2/C-501.
- LANDING SPECIALTY PAVEMENT WITH MEDIUM GRANIFLEX COATING BLEND PER DETAILS #12/C-501 AND #2/C-501.
- LANDING SPECIALTY PAVEMENT WITH DARK GRANIFLEX COATING BLEND PER DETAILS #12/C-501 AND #2/C-501.
- TABLE TOP CROSSING CONCRETE PAVEMENT RAMP PER DETAIL #14/C-501.
- 4" OF #53/73 COMPACTED AGGREGATE.

NOTE: ALL DIMENSIONS ARE TO FACE OF CURB OR EDGE OF PAVEMENT UNLESS NOTED OTHERWISE.

PROPOSED LEGEND:

- STORM INLET / MANHOLE
- SANITARY MANHOLE
- SANITARY CLEANOUT
- GATE VALVE
- PIV

LAYOUT NOTES:

1. BRICK PAVERS, TYPE "I" WITH CURB FACED WALK : 4" X 8" X 2.25" BRICK PAVER MANUFACTURED BY PINE HALL BRICK COMPANY. SET IN A RUNNING BOND PATTERN. COLOR SHALL BE ENGLISH EDGE, FULL COLOR RANGE AND MEET OR EXCEED ASTM C902 CLASS SX, TYPE I APPLICATION FX, OR CITY APPROVED EQUAL WITH A STANDARD FINISH. INSTALL PER DETAILS #2/C-501 AND #3/C-501. CONTRACTOR TO REUSE SALVAGED BRICKS REMOVED DURING DEMOLITION AND PROVIDE NEW BRICKS AS NEEDED.
2. PAVERS, TYPE "II": URBAN TRAIL PAVERS SHALL BE ELEMENTS PAVING STONE AS MANUFACTURED BY COUNTY MATERIALS COMPANY WITH A THICKNESS OF 70MM. SIZES SHALL BE A MIXTURE OF THE FOLLOWING: "B" = 8"x8", "D" = 8"x16", AND "C" = 16"x16". COLORS SHALL BE FOR PAVERS "B", "C" AND "D" A 50/50 BLEND OF "TIMELESS AND SERENITY". SET PAVERS IN THE PATTERN AS SHOWN IN DETAIL #7/C-501. PROVIDE A STANDARD FINISH FOR ALL PAVERS AND INSTALL PER DETAIL #5/C-501.
3. PAVERS, TYPE "III": TRANSITION AREA PAVERS SHALL BE ELEMENTS PAVING STONE AS MANUFACTURED BY COUNTY MATERIALS COMPANY WITH A THICKNESS OF 70MM. SIZES SHALL BE A MIXTURE OF THE FOLLOWING: "B" = 8"x8", "D" = 8"x16", AND "C" = 16"x16". COLORS FOR PAVERS "B" AND "D" SHALL BE A 50/50 BLEND OF "TIMELESS AND SERENITY", AND COLOR FOR PAVER "C" SHALL BE 'REFLECTION'. SET PAVERS IN THE PATTERN AS SHOWN IN DETAIL #8/C-501. PROVIDE A STANDARD FINISH FOR ALL PAVERS AND INSTALL PER DETAIL #5/C-501.
4. ASPHALT PAVEMENT PER DETAIL #1/C-501.
5. LANDING SPECIALTY PAVEMENT WITH LIGHT GRANIFLEX COATING BLEND PER DETAILS #12/C-501 AND #2/C-501.
6. SIDEWALK , CONCRETE 4" PER DETAILS #2/C-501 AND #4/C-501. PROVIDE 30" x 30" HAND TOOLED JOINTS OR AS SHOWN ON LAYOUT PLAN.
7. LANDSCAPE PLANTING BED PER DETAIL #9/C-501. SEE SITE LANDSCAPE PLAN.
9. PROPOSED LIGHT POLE - SEE SITE ELECTRICAL PLAN.
10. DETECTABLE WARNING BRICK FOR PAVER TYPE "IV" AREAS SHALL BE MANUFACTURED BY ENDICOT. PROVIDE TRUNCATED DOME BRICKS SIZED 2-1/4" X 4" X 9" IN CURB RAMP AREA. COLOR SHALL BE "MANGANESE IRONSPOT", INSTALL PER DETAILS #16/C-501 OR #17/C-501.
11. TRANSVERSE JOINT PER DETAIL #10/C-501.
12. CROSSWALK STRIPING SHALL BE SOLID WHITE EPOXY PAINT. MATCH EXISTING WIDTH.
13. RELOCATED BIKE RACK. CONNECT TO PAVEMENT WITH ANCHOR BOLTS. MATCH SIZE OF THE EXISTING BOLTS.
14. PCCP, 7" PER DETAIL #6/C-501.
15. LANDSCAPE PLANTING, SEE SITE LANDSCAPE PLAN.
16. TABLE TOP CROSSING CONCRETE PAVEMENT RAMP PER DETAIL #14/C-501.
17. 4" OF #53/73 COMPACTED AGGREGATE.
18. FOR REFERENCE ONLY: PLANTERS - BY FUTURE TENANT.
19. SIGNAL CONTROLLER CABINET FOUNDATION TYPE M PER INDOT STANDARD DRAWING NO. E 805-SGCF-02.
20. CONCRETE STOOP, SEE STRUCTURAL PLANS. COORDINATE SCORING WITH ADJACENT CONCRETE.
21. 4" CONCRETE SIDEWALK WITH REINFORCING PER DETAILS #2/C-501 AND #11/C-501.
22. COORDINATE CONCRETE SCORE JOINTS WITH EXISTING.
23. CONCRETE PAD FOR TRANSFORMER. SEE MEP PLANS.
24. RELOCATED BIKE REPAIR STATION. CONNECT TO PAVEMENT WITH ANCHOR BOLTS. MATCH SIZE OF THE EXISTING BOLTS.
25. CONCRETE WALL, SEE STRUCTURAL PLANS.
26. LANDING SPECIALTY PAVEMENT WITH MEDIUM GRANIFLEX COATING BLEND PER DETAILS #12/C-501 AND #2/C-501.
27. FOR REFERENCE ONLY: SITE FURNITURE - BY FUTURE TENANT.
28. THICKENED EDGE CONCRETE AT PLANTER CURB PER DETAIL #18/C-501.
29. 4" x 4" PLANTER CURB OPENING PER DETAIL #19/C-501.
30. LANDING SPECIALTY PAVEMENT WITH DARK GRANIFLEX COATING BLEND PER DETAILS #12/C-501 AND #2/C-501.

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09-13-2024
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Key Plan:

THE LANDING 3.0

NEW CONSTRUCTION
Fort Wayne, Indiana

REVISION		
No.	**Date**	**Revision**

DRAWING CONTENTS:
SITE LAYOUT PLAN

ISSUE DATE:	PROJECT NO.
09.13.2024	23029

DRAWING NO.

C-201

September 12, 2024 11:03 AM
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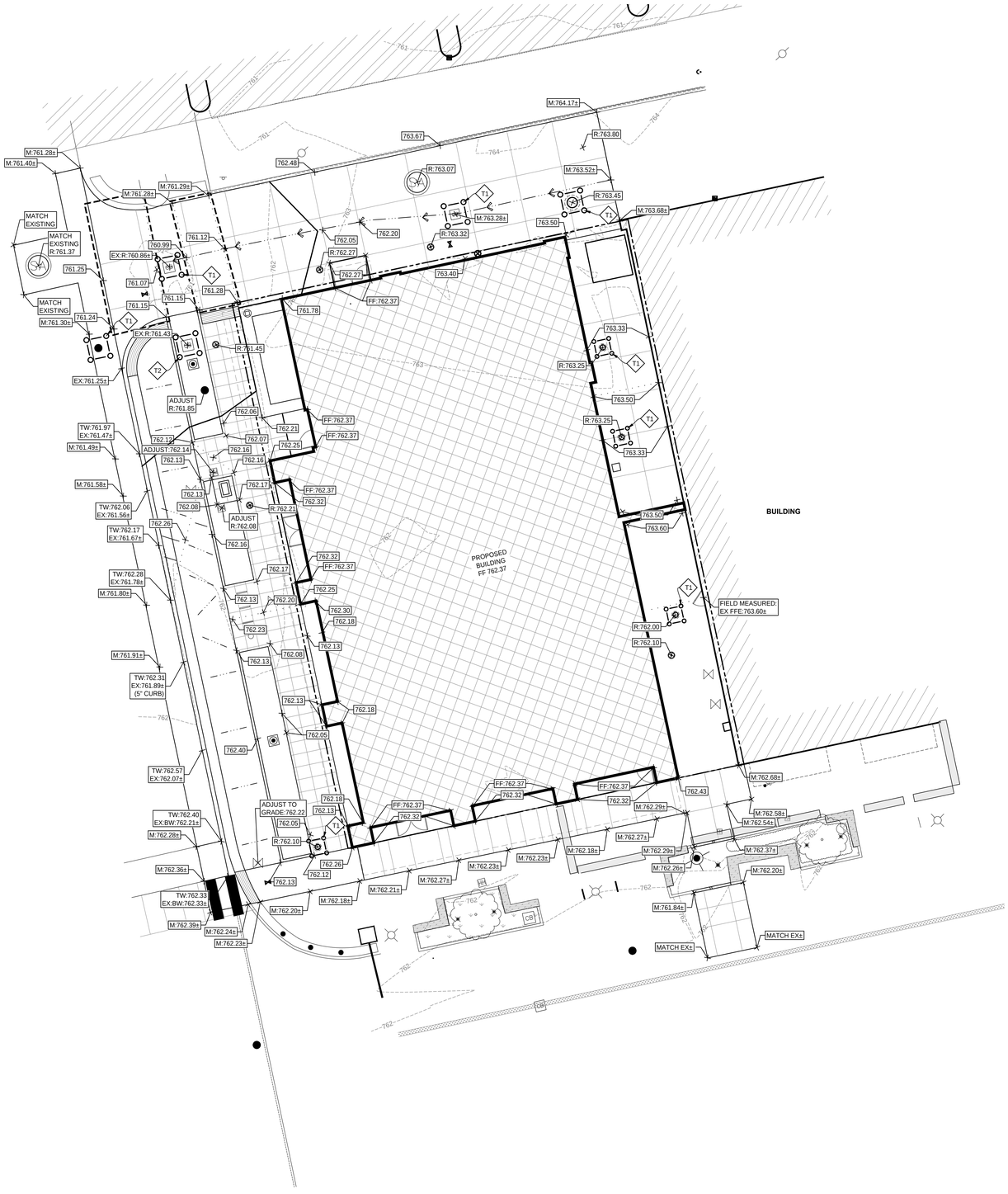

SITE GRADING PLAN

1" = 10'-0"

NORTH

GRADING LEGEND:

800	PROPOSED CONTOUR
801	EXISTING CONTOUR
M:XXX.xx±	MATCH EXISTING SPOT
EX:XXX.xx±	EXISTING SPOT
XXX.xx	PROPOSED SPOT
R:XXX.xx	PROPOSED RIM
TW:XXX.xx	PROPOSED TOP OF WALK
BW:XXX.xx	PROPOSED BOTTOM OF WALK
TC:XXX.xx	PROPOSED TOP OF CURB
BC:XXX.xx	PROPOSED BOTTOM OF CURB
	PROPOSED DRAINAGE INTENT
	PROPOSED BREAKLINE

NOTE: ALL ELEVATIONS ARE TO TOP OF PAVEMENT OR LAWN UNLESS NOTED OTHERWISE.

EROSION CONTROL LEGEND:

INLET PROTECTION

EROSION CONTROL KEY:

T1	INSTALL PAVEMENT INLET PROTECTION DEVICE PER DETAIL #2/C-502
T2	INSTALL YARD INLET PROTECTION DEVICE PER DETAIL #3/C-502

GRADING NOTE:

1. CONTRACTOR TO TAKE EXTREME CARE TO PROVIDE ADA COMPLIANT SLOPES THROUGH PEDESTRIAN CROSSING. PROPOSED GRADES PROVIDED ASSURE A CROSS SLOPE LESS THAN 2.0% AND LONGITUDINAL SLOPE LESS THAN 5.0%.

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SITE GRADING PLAN

ISSUE DATE:	PROJECT NO.
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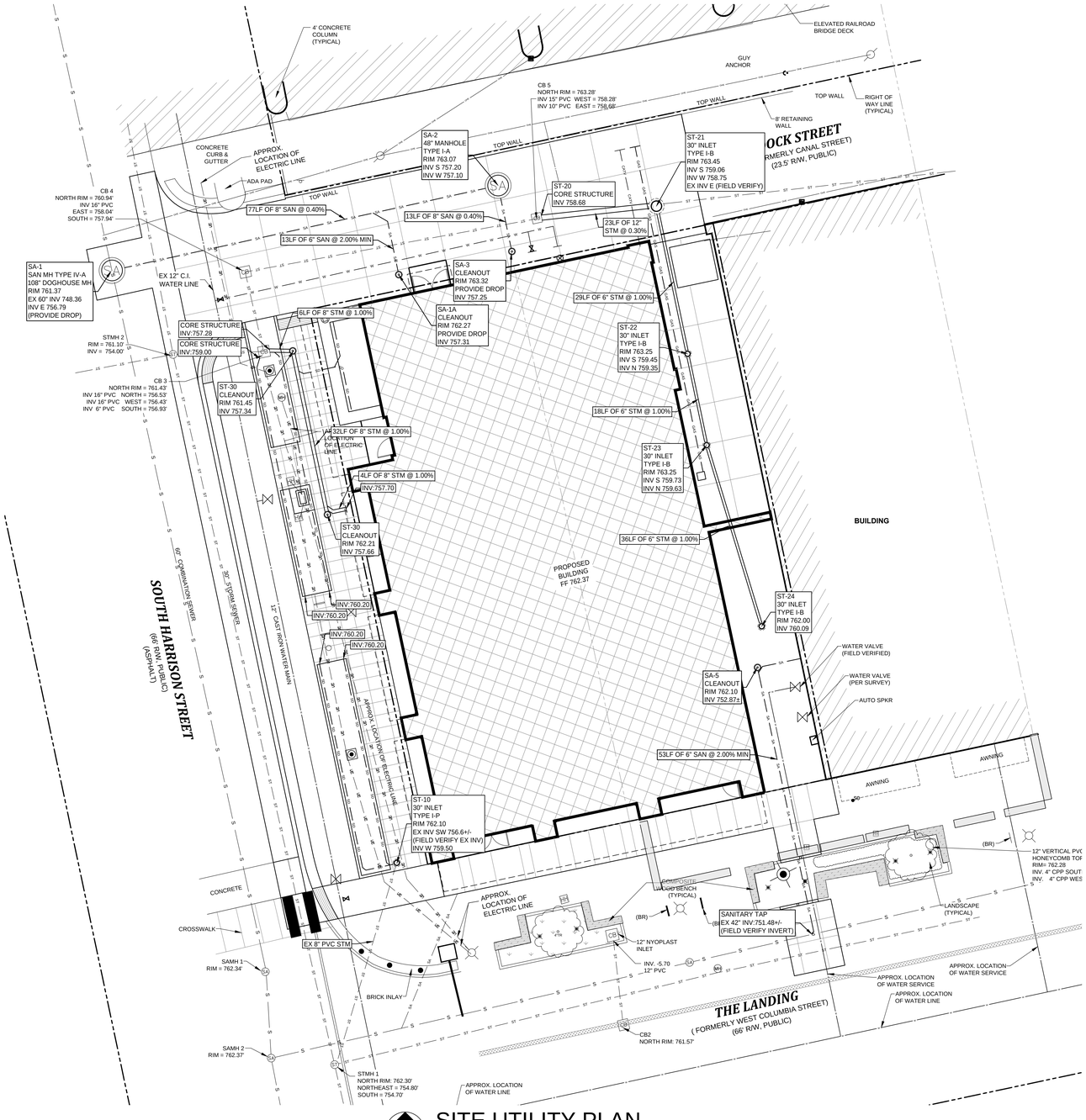
DRAWING NO.
C-301



SITE UTILITY PLAN

1" = 10'-0"

NORTH

UTILITY NOTES:

1. COORDINATE CONNECTION WITH THE BUILDING DRAWINGS.
2. 6" POST INDICATOR MOUNTED TO BUILDING FACE. SEE PLUMBING PLANS FOR SPECIFICATIONS AND REQUIREMENTS.
3. 2" CURB STOP & BOX.
4. 2" DR 9 HDPE DOMESTIC WATER SERVICE.
5. 6" C900 PVC FIRE PROTECTION SERVICE.
6. WATER CONNECTION, 6"x12" TAPPING SLEEVE, GATE VALVE AND VALVE BOX. COORDINATE TAP WITH CITY OF FORT WAYNE.
7. 4" PERFORATED SUBDRAIN PER DETAIL #9/C-501. SLOPE TO DRAIN.
8. FIELD VERIFY DEPTH LOCATION OF EXISTING STORM LINE AND CONNECT TO PROPOSED STRUCTURE.
9. CORE HOLE IN EXISTING STRUCTURE AND PROVIDE WATER TIGHT CONNECTION.
10. GAS SERVICE (FOR REFERENCE ONLY). COORDINATE WITH NIPSCO UTILITY PROVIDER.
11. TRANSFORMER LOCATION. SEE SITE ELECTRICAL PLAN AND COORDINATE WITH UTILITY OWNER.
12. CABLE / INTERNET SERVICE. SEE SITE ELECTRICAL PLAN. COORDINATE WITH UTILITY OWNER.
13. FIELD VERIFY LOCATION OF EXISTING SANITARY SEWER FOR NAWA BUILDING. CONFIRM INVERT ELEVATION AND CONTACT ENGINEER IF CONFLICT EXISTS. REROUTE SANITARY SEWER AS SHOWN ON PLANS. PROVIDE BY-PASS PUMPING AS NECESSARY.
14. FIELD VERIFY LOCATION OF EXISTING WATER LINES FOR NAWA BUILDING. CONFIRM EXACT LOCATION AND CONFIRM NO CONFLICT EXISTS WITH PROPOSED CONSTRUCTION
15. PROVIDE SLEEVE FOR STORM LINE.

NOTE: PIPE LENGTHS ARE MEASURED TO THE CENTER OF STRUCTURES UNLESS OTHERWISE NOTED.

NOTE: ADJUST ALL EXISTING MANHOLES, VALVES, HYDRANTS AND HANDHOLES TO PROPOSED GRADES.

NOTE: CONTRACTOR SHALL PROVIDE AS-BUILT SURVEY OF FINAL UTILITIES AS REQUIRED BY LOCAL AUTHORITIES.

WATER NOTES:

1. WATER TO BE SUPPLIED BY THE CITY OF FORT WAYNE WATER UTILITY.
2. WATER MAINS SHALL BE INSTALLED ACCORDING TO FORT WAYNE WATER UTILITY "DETAILED SPECIFICATIONS AND CONDITIONS FOR THE INSTALLATION OF TRANSMISSION AND DISTRIBUTION MAINS: CONSTRUCTION STANDARDS AND WATER MAIN & WATER SERVICE MATERIALS STANDARDS" LATEST REVISION.
3. ALL PERMANENT AND TEMPORARY EASEMENTS AND PERMITS, INCLUDING STREET AND ROAD CUT PERMITS, NECESSARY FOR THE CONSTRUCTION OF THESE WATER MAINS SHALL BE SECURED AND PAID FOR BY THE DEVELOPER AND TWO COPIES FURNISHED TO THE WATER ENGINEERING DEPARTMENT BEFORE CONSTRUCTION STARTS.
4. IT IS THE RESPONSIBILITY OF THE DEVELOPER TO OBTAIN ALL PERMITS NECESSARY TO EITHER CUT OR BORE UNDER THE PUBLIC WAY FROM THE JURISDICTION HAVING CONTROL OVER THE PUBLIC WAY. APPROVAL OF PLANS BY THE WATER ENGINEERING DEPARTMENT DOES NOT WARRANT THE ISSUANCE OF THE PERMIT BY THE CONTROLLING AGENCY.
5. THE CONTRACTOR SHALL NOTIFY ENGINEERING SUPPORT SERVICES AT LEAST 48 HOURS BEFORE STARTING CONSTRUCTION TO ARRANGE FOR INSPECTION AND SHUT DOWN OF EXISTING WATER MAINS WHERE REQUIRED.
6. WHERE SANITARY SEWER AND WATER MAIN CROSS, ONE FULL LENGTH OF WATER MAIN SHOULD BE CENTERED OVER THE SANITARY SEWER, AND THE VERTICAL DISTANCE TO BE A MINIMUM OF 18 INCHES. WHERE WATER LINES AND SEWER CROSS AND THE CLEARANCE CANNOT BE MAINTAINED, THE SEWER MUST BE CONSTRUCTED OF WATERWORKS GRADE DUCTILE IRON PIPE WITH MECHANICAL JOINTS OF SDR 21 PVC PRESSURE SEWER PIPE WITH COMPRESSION FITTINGS WITHIN TEN FEET OF THE WATER LINE.
7. WHERE A WATER MAIN CROSSES UNDER A SEWER, THE MAIN SHALL USE 22° ELBOWS TO MINIMIZE THE LENGTH OF WATER MAIN INSTALLED IN EXCESS OF 5.0 FEET COVER.
8. THE MINIMUM HORIZONTAL DISTANCE BETWEEN THE WATER MAIN AND THE STORM OR SANITARY SEWER MAIN IS 10.0 FEET.
9. ALL WATER LINES SHALL BE INSTALLED USING CLASS B BEDDING, IN ACCORDANCE TO ASTM D-698 FOR RIGID PIPE CLASS "F" BEDDING TO BE USED FOR ALL FLEXIBLE PIPE.
10. ALL WATER TRENCHES WITHIN THE ROAD RIGHT-OF-WAY OR UNDER PARKING LOTS, DRIVES, SIDEWALKS AND EXISTING PIPE SHALL BE BACKFILLED WITH #53 OR #73 AGGREGATE COMPACTED TO 95% MODIFIED PROCTOR TEST DENSITY.
11. ALL WATER LINES 3" OR LARGER MUST BE DISINFECTED ACCORDING TO ANSI/AWWA C651-92.
12. FOR WATER MAIN SMALLER THAN 16", RESTRAINT WILL BE REQUIRED FOR ALL TEES, CROSSES, BENDS, AND ELBOWS EXCEEDING 11½°.
13. 4" OR LARGER WATER SERVICES TO BE DUCTILE IRON PRESSURE CLASS 350 OR DR 18 C900 PVC. WATER SERVICES BETWEEN 1" AND 2" DIAMETER SHALL BE TYPE 'K' COPPER OR HDPE SDR 9 PRESSURE CLASS 200 COPPER TUBE SIZE (CTS). WATER SERVICES SMALLER THAN 1" SHALL BE TYPE 'K' COPPER.
14. HDPE PIPING SHALL UTILIZE SEAMLESS STAINLESS STEEL TYPE 304 STIFFENING INSERTS DESIGNED FOR USE WITH BRASS MECHANICAL COMPRESSION FITTINGS.
15. HDPE PIPING TO BE BEDDED IN INDOT #5 OR #8 GRANULAR MATERIAL AND FREE FROM ROCKS, SHARP OBJECTS OR DEBRIS PER ASTM D2774.
16. ALL PIPE JOINTS SHALL BE IN ACCORDANCE WITH ANSI SPECIFICATIONS OF A21.11 (AWWA C-111).
17. GATE VALVES SHALL BE INSTALLED ON ALL WATER MAIN 12" AND SMALLER. ALL GATE VALVES SHALL BE CAST IRON BODY MADE IN ACCORDANCE WITH AWWA C-500 FOR DOUBLE SEATED VALVES, AND C-509 FOR RESILIENT SEATED VALVES AND ARE TO BE RIGHT HAND (CLOCKWISE) OPENING.
18. THE CONTRACTOR SHALL GUARANTEE THE INSTALLATION FOR ONE YEAR FROM THE DATE THAT THE WATER LINES ARE TRANSMITTED TO THE UTILITY.
19. PLANS WERE PREPARED IN COMPLIANCE WITH STATE TECHNICAL STANDARDS, PER 327 IAC 8-3.2.
20. ALL MATERIALS ARE CERTIFIED IN ACCORDANCE WITH THE AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) NATIONAL SANITATION FOUNDATION (NSF) INTERNATIONAL STANDARD 61.
21. ALL WATER MAINS AND THEIR ACCESSORIES SHALL BE INSTALLED AND PRESSURE AND LEAK TESTED IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF AWWA STANDARD C600-93, C602-89, C603-90, C605-94, OF C606-87.
22. ALL WORK TO CONFORM TO STATE AND LOCAL PLUMBING BACKFLOW PREVENTION CODES AND THE SPECIFICATIONS OF THE FORT WAYNE WATER UTILITY. PER STATE CODE, BACKFLOW DEVICES ARE TO BE TESTED UPON INSTALLATION AND THEN PERIODICALLY THEREAFTER. SUBMIT COPIES OF TESTS TO THE WATER ENGINEERING DEPARTMENT.
23. VACUUM BREAKERS MUST BE INSTALLED ON ALL EXISTING OR PROPOSED HOSE BIBBS, MOP/SERVICE SINKS, WALLYARD HYDRANTS.
24. ALL PIPE SHALL BE INSTALLED ACCORDING TO SPECIFICATIONS AND PIPE TRENCH DETAIL #1/C-502.

SANITARY SEWER NOTES:

1. ALL MATERIALS AND WORKMANSHIP SHALL MEET THE CITY OF FORT WAYNE DESIGN STANDARDS MANUAL AND TITLE 327 OF THE INDIANA ADMINISTRATION CODE, ARTICLE 3 (STATE CODE), LATEST VERSION.
2. ALL PERMITS REQUIRED FOR THE EXECUTION OF THE WORK SHALL BE OBTAINED AND ALL APPLICABLE FEES PAID FOR BY THE CONTRACTOR OR DEVELOPER TO CITY UTILITIES PRIOR TO COMMENCEMENT OF WORK UNLESS OTHERWISE APPROVED BY CITY UTILITIES.
3. AS-BUILT DRAWINGS (1 SET) TO BE PROVIDED TO CITY OF FORT WAYNE UPON COMPLETION OF SANITARY SEWER.
4. INSPECTION BY CITY REPRESENTATIVE MUST BE PROVIDED FOR ALL SEWER CONSTRUCTION AND PAID FOR BY THE CONTRACTOR OR DEVELOPER. CONTRACTOR MUST NOTIFY CITY UTILITIES 48 HOURS PRIOR TO START OF CONSTRUCTION.
5. PIPE BEDDING - CLASS "F" FOR FLEXIBLE PIPE SHALL BE BEDDED IN GRANULAR FILL, WHICH SHALL BE CARRIED 12 INCHES ABOVE THE TOP OF THE PIPE. ALL BEDDING, HAUNCHING AND INITIAL BACKFILL SHALL BE CRUSHED AGGREGATE INDOT #5, #8 OR #9.
6. ALL SEWER TRENCHES WITHIN THE ROAD RIGHT-OF-WAY, UNDER PARKING LOTS, DRIVES, SIDEWALKS AND EXISTING PIPES SHALL BE BACKFILLED WITH INDOT #53, #73 CRUSHED STONE, COMPACTED TO 95% MODIFIED PROCTOR DENSITY, UNLESS OTHERWISE NOTED.
7. ALL GRAVITY SANITARY SEWER MAINS TO BE PVC CONFORMING TO ASTM D3034, UNLESS NOTED OTHERWISE.
8. ALL SANITARY SEWER JOINTS SHALL BE GASKETED "PUSH ON TYPE" WITH A CONFINED ELASTOMETRIC SEAL (RUBBER GASKET). JOINT TO CONFORM WITH ASTM D3212 AND SEAL TO CONFORM WITH JOINTS ASTM F477.
9. ALL MANHOLES TO BE 48-INCH DIAMETER PRECAST REINFORCED CONCRETE, UNLESS NOTED OTHERWISE.
10. ALL PRE-CAST CONCRETE MANHOLE COMPONENTS (CONES, ADJUSTING RINGS, SECTIONS, ETC.) SHALL CONFORM TO ASTM SPECIFICATION C478.
11. ALL MANHOLE FRAMES TO BE NEENAH R-1772 WITH "SANITARY" LETTERED, SOLID LID OR EAST JORDAN 1022Z1 WITH 1020AHDGS "SANITARY SEWER" LETTERED, SOLID LID, UNLESS OTHERWISE NOTED.
12. SEWER TO WATER MAIN SEPARATION DISTANCES SHALL CONFORM TO THE RECOMMENDED STANDARDS FOR 327 IAC 3-6-9, LATEST VERSION.
CROSSINGS: SEWERS CROSSING WATER MAINS SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF 18" BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF THE SEWER. THIS SHALL BE THE CASE WHERE THE WATER MAIN IS EITHER ABOVE OR BELOW THE SEWER. WHEN IT IS IMPOSSIBLE TO OBTAIN THE PROPER HORIZONTAL AND VERTICAL SEPARATION ONE OF THE FOLLOWING METHODS MUST BE SPECIFIED:
A) THE SEWER SHALL BE DESIGNED AND CONSTRUCTED EQUAL TO WATER PIPE, AND SHALL BE PRESSURE TESTED AT 150 PSI TO ASSURE WATERTIGHTNESS.
B) EITHER THE WATER MAIN OR THE SEWER LINE MAY BE ENCASED IN A WATERTIGHT CARRIER PIPE WHICH EXTENDS 10 FEET ON BOTH SIDES OF THE CROSSING, MEASURED PERPENDICULAR TO THE WATER MAIN. THE CARRIER PIPE SHALL BE OF THE MATERIALS APPROVED BY CITY UTILITIES FOR USE OF WATER MAIN CONSTRUCTION.
HORIZONTAL AND VERTICAL SEPARATION: A 10 FOOT HORIZONTAL DISTANCE EDGE TO EDGE SHALL BE MAINTAINED BETWEEN SANITARY SEWER AND EXISTING OR PROPOSED WATER MAIN. FOR GRAVITY SEWERS WHERE IT IS NOT PRACTICAL TO MAINTAIN A 10 FOOT SEPARATION A DEVIATION MAY BE ALLOWED ON A CASE-BY-CASE BASIS. SUCH DEVIATION MAY ALLOW THE INSTALLATION OF THE GRAVITY SEWER CLOSER TO A WATER MAIN, PROVIDED THAT THE WATER MAIN IS IN A SEPARATE TRENCH OR ON AN UNDISTURBED EARTH SHELF LOCATED ON ONE SIDE OF THE GRAVITY SEWER AND AT AN ELEVATION SO THE BOTTOM OF THE WATER MAIN IS AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER. IF IT IS IMPOSSIBLE TO OBTAIN PROPER HORIZONTAL AND VERTICAL SEPARATION FOR GRAVITY SEWERS, BOTH THE WATER MAIN AND GRAVITY SEWER MUST BE CONSTRUCTED OF SLIP-ON OR MECHANICAL JOINT PIPE COMPLYING WITH CITY UTILITIES DESIGN STANDARDS AND BE PRESSURE TESTED TO 150 PSI TO ASSURE WATERTIGHTNESS.
13. ANY EXISTING PIPE OR TILE(S), WHICH ARE CUT OR DAMAGED DURING CONSTRUCTION, SHALL BE REPLACED WITH EQUAL OR BETTER MATERIALS AND CONSTRUCTION METHODS.
14. ANY PAVEMENT OR IMPROVED ROAD SURFACE OR SIDEWALK CUT DURING CONSTRUCTION SHALL BE REPLACED WITH EQUAL OR BETTER MATERIALS AND CONSTRUCTION METHODS.
15. ALL GRASSED AREAS WHICH ARE DISTURBED DURING THE COURSE OF CONSTRUCTION, SHALL BE SEEDED WITH COMPARABLE GRASS SEED AND COVERED WITH STRAW. WATER SHALL BE APPLIED AS REQUIRED TO ASSURE GROWTH.
16. ALL AREAS DISTURBED DURING CONSTRUCTION SHALL BE REGRADED TO THE ORIGINAL CONTOURS PRIOR TO COMPLETION OF THE PROJECT.
17. VERTICAL DEFLECTION TEST (MANDREL TEST) SHALL BE PERFORMED ON ALL FLEXIBLE PIPE AFTER THE FINAL BACKFILL HAS BEEN IN PLACE AT LEAST 30 DAYS. NO PIPE SHALL EXCEED A VERTICAL DEFLECTION OF 5% ACTUAL INSIDE DIAMETER (AS LISTED IN ASTM STANDARDS). DEFLECTION TEST RESULTS SHALL BE SUBMITTED WITH THE INFILTRATION/EXFILTRATION TEST RESULTS. THE FOLLOWING ARE CONSIDERED FLEXIBLE PIPES: DIP, PVC, HDPE, PP AND FRP.
18. ALL MANHOLES SHALL BE AIR TESTED IN ACCORDANCE WITH ASTM C1244, STANDARD TEST METHOD FOR CONCRETE SEWER MANHOLES BY NEGATIVE AIR PRESSURE (VACUUM TEST).
19. LOW PRESSURE AIR TEST FOR GRAVITY SEWER SHALL CONFORM TO ASTM F1417, STANDARD TEST METHOD FOR INSTALLATION ACCEPTANCE OF PLASTIC GRAVITY SEWER LINES USING LOW-PRESSURE AIR, FOR PLASTIC PIPE.

STORM SEWER NOTES:

1. MATERIAL AND WORKMANSHIP SHALL COMPLY WITH THE CITY OF FORT WAYNE STANDARDS AND SPECIFICATIONS.
2. ALL PIPE 12" AND SMALLER SHALL BE SDR 35 PVC, OR ADS N-12 HDPE UNLESS OTHERWISE NOTED. ALL PIPE LARGER THAN 12" SHALL BE ADS N-12 HDPE OR C76 CL-111 RCP UNLESS OTHERWISE NOTED. ALL PIPE SHALL BE INSTALLED ACCORDING TO SPECIFICATIONS AND PIPE TRENCH DETAIL #1/C-502.
3. MAINTAIN 10'-0" MINIMUM HORIZONTAL AND 18" MINIMUM VERTICAL SEPARATION BETWEEN ALL SEWER PIPING AND POTABLE WATER PIPING. WHEN MINIMUM TOLERANCES CAN'T BE MAINTAINED, USE WATERWORKS GRADE PIPE AND FITTINGS OF MATERIAL SELECTED.
4. COORDINATE TAP LOCATIONS FOR ROOF DRAINS WITH BUILDING PLUMBING DRAWINGS. ASSURE ALL REQUIRED FITTINGS ARE INSTALLED ON THE MAIN LINE PRIOR TO BACKFILLING. INCLUDE ADAPTER FITTING FOR DOWNSPOUTS.
5. ALL UNDERGROUND PIPING FOR DOWNSPOUT COLLECTION SYSTEM SHALL BE 6" SDR 35 PVC STORM @ 1.00% MIN. SLOPE UNLESS NOTED OTHERWISE.

PROPOSED LEGEND:

STORM INLET / MANHOLE	STORM SEWER
SANITARY MANHOLE	SUBDRAIN
CLEANOUT	SANITARY SEWER
GATE VALVE	WATER LINE
PIV	GAS LINE

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REVISION

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SITE UTILITY PLAN

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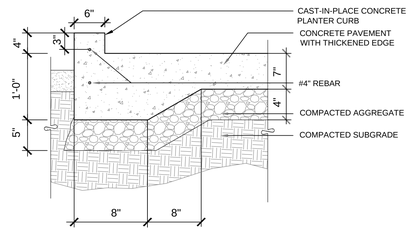
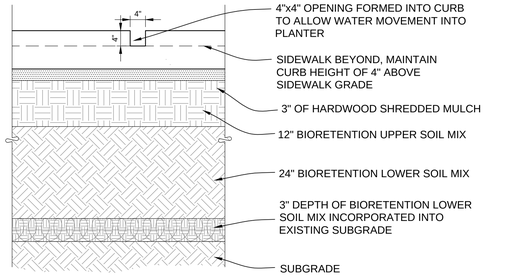


18 THICKENED EDGE CONCRETE AT PLANTER CURB

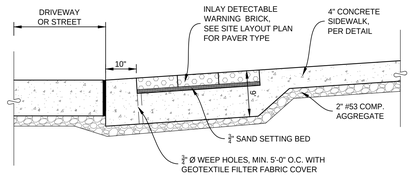
SCALE: NONE



19 PLANTER CURB ELEVATION

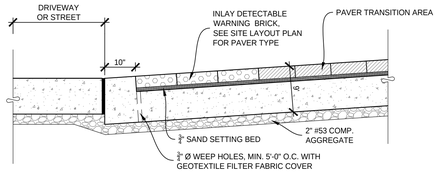
SCALE: NONE

NOTE:
SEE SITE LANDSCAPE PLAN AND DETAIL SHEET C-502 FOR BIORETENTION SOIL MIX INFORMATION.



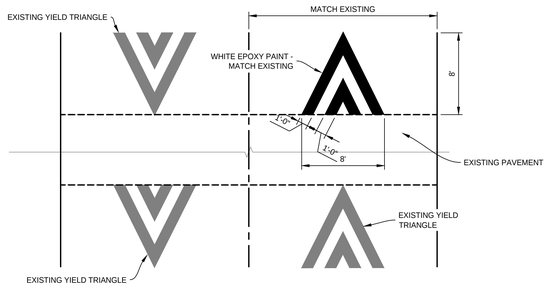
16 CONCRETE TRANSITION SECTION

SCALE: 1" = 1'-0"



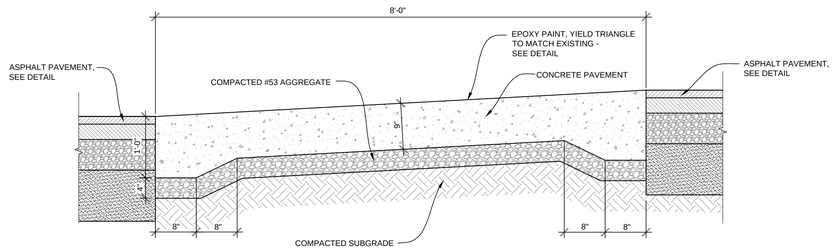
17 PAVER TRANSITION SECTION

SCALE: 1" = 1'-0"



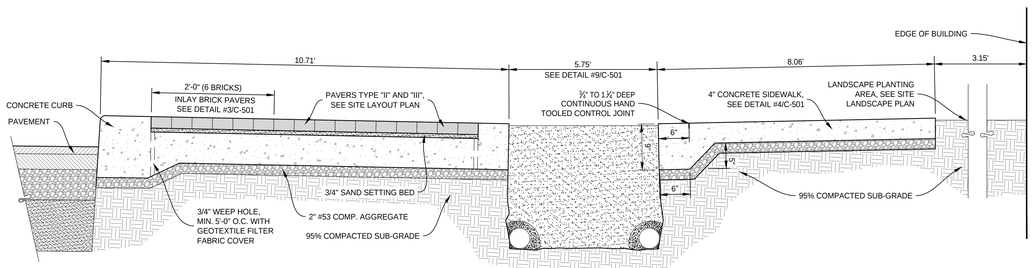
15 EPOXY PAINT, YIELD TRIANGLE

SCALE: 1" = 1'-0"



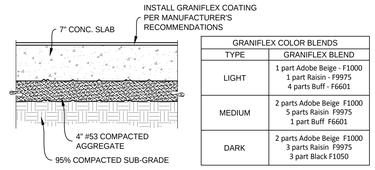
14 TABLE TOP CONCRETE PAVEMENT RAMP

SCALE: 1" = 1'-0"



13 SECTION A-A

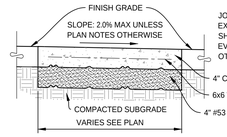
SCALE: NONE



GRANIFLEX COLOR BLENDS	
TYPE	GRANIFLEX BLEND
LIGHT	1 part Adobe Beige - F1000 1 part Raisin - F9975 4 parts Buff - F6601
MEDIUM	2 parts Adobe Beige F1000 5 parts Raisin F9975 1 part Buff F6601
DARK	2 parts Adobe Beige F1000 3 parts Raisin F9975 3 part Black F1050

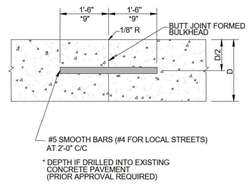
12 LANDING SPECIALTY PAVEMENT

SCALE: 1" = 1'-0"



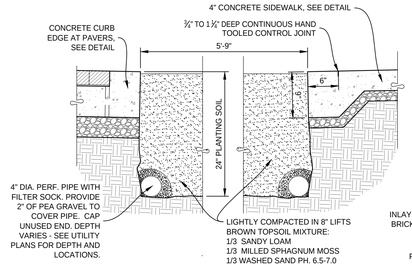
11 4" CONC. SIDEWALK W/ REINFORCING

SCALE: 1" = 1'-0"



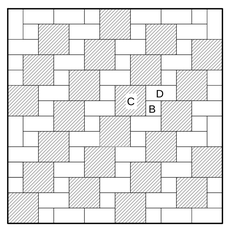
10 TRANSVERSE JOINT

SCALE: 1" = 1'-0"



9 PLANTING BED

SCALE: 1" = 1'-0"

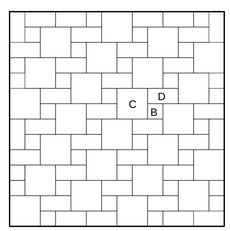


CONCRETE PAVERS:

ELEMENTS PAVING STONE BY COUNTY MATERIALS CO.
THICKNESS: 70MM
SIZES: B=8"x8", D=8"x16", C=16"x16"
PATTERN: AS INDICATED ABOVE
COLOR: PAVERS B & D = 50/50 BLEND OF TIMELESS AND SERENITY, PAVER C = REFLECTION
FINISH: STANDARD

8 PAVERS, TYPE "III" PAVER PATTERN

SCALE: NONE

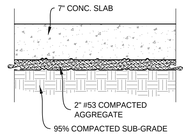


CONCRETE PAVERS:

ELEMENTS PAVING STONE BY COUNTY MATERIALS CO.
THICKNESS: 70MM
SIZES: B=8"x8", D=8"x16", C=16"x16"
PATTERN: AS INDICATED ABOVE
COLOR: PAVERS B, C, & D = 50/50 BLEND OF TIMELESS AND SERENITY
FINISH: STANDARD

7 PAVERS, TYPE "II" PAVER PATTERN

SCALE: NONE

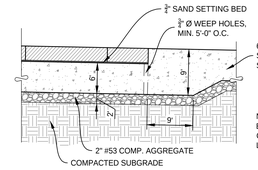


6 PCCP, 7"

SCALE: 1" = 1'-0"

PAVER NOTES:

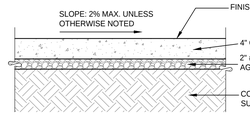
1. PAVERS TYPE - SEE SITE LAYOUT PLAN FOR PAVER INFORMATION.
2. PROVIDE SURFACE APPLIED SEALER AFTER INSTALLATION.
3. INSTALL A GEOTEXTILE FILTER FABRIC OVER ENTIRE AREA TO PAVED TO COVER WEEP HOLES. SET PAVERS HAND TIGHT ON 3/4" SETTING BED OF GATOR MAXX POLYMERIC SAND AND SWEEP JOINTS WITH GATOR MAXX POLYMERIC SAND, SLATE GREY COLOR, OR APPROVED EQUAL, PER MANUFACTURER'S INSTRUCTIONS.



NOTE:
EXPANSION JOINTS FOR CONCRETE BASE SHALL BE LOCATED EVERY 50 LF

5 PAVERS, TYPE "II" & "III" DETAIL

SCALE: 1" = 1'-0"



JOINTS:
EXPANSION JOINTS SHALL BE LOCATED EVERY 50 LF UNLESS OTHERWISE INDICATED.

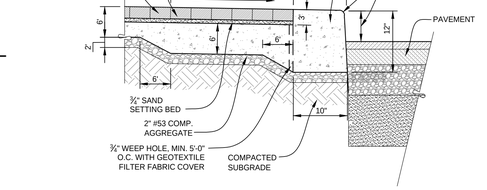
4 SIDEWALK, CONCRETE, 4"

SCALE: 1" = 1'-0"

PAVER NOTES:

1. PAVERS TYPE - SEE SITE LAYOUT FOR PAVER INFORMATION.
2. PROVIDE SURFACE APPLIED SEALER AFTER INSTALLATION.
3. SET BRICK PAVERS IN RUNNING BOND PATTERN. SET HAND TIGHT ON 3/4" SETTING BED OF WASHED SAND MEETING ASTM C33, SWEEP JOINTS WITH FINE SAND MIXED WITH ORGANIC STABILIZER PRODUCT PER MANUFACTURER'S INSTRUCTIONS.

JOINTS:
EXPANSION JOINTS SHALL BE LOCATED EVERY 50 LF UNLESS OTHERWISE INDICATED.



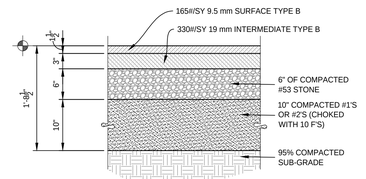
3 BRICK PAVERS, TYPE "I" WITH CURB FACE WALK

SCALE: 1" = 1'-0"

1. CEMENT TYPE: CLASS A CONCRETE, 4000PSI AT 28 DAYS.
2. DEPTH OF CONCRETE: SEE DETAILS AND SITE LAYOUT PLANS FOR DEPTHS.
3. EXPANSION JOINTS: 1/2" THICK PRE-FORMED EXPANSION JOINT MATERIAL SHALL BE INSTALLED IN THE FOLLOWING LOCATIONS:
   A. WHERE NEW SIDEWALK ABUTS AN EXISTING SIDEWALK, DRIVEWAY, OR CURB.
   B. EVERY 50' IN SIDEWALKS THAT ARE 100' OR MORE IN LENGTH.
4. SCORED HAND TOOLED CONSTRUCTION JOINTS: ½" TO 1 ½" DEEP AT INTERVALS AS SHOWN ON PLANS.
5. CROSS SLOPE: NOT TO EXCEED 2.0%, WITH THE LOWEST PART OF THE SIDEWALK ABOVE THE ADJACENT CURB.
6. SURFACE FINISH: LIGHT BROOM FINISH APPLIED FROM SIDE-TO-SIDE OF THE SIDEWALK OR GRANIFLEX COATING, SEE SITE LAYOUT PLAN FOR LOCATIONS.
7. ADA COMPLIANCE: ALL CONSTRUCTION SHALL BE IN COMPLIANCE WITH THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT.
8. CONCRETE SIDEWALK SHALL BE FORMED WITH FORMS, FULL DEPTH, AND NOT EARTH FORMED.

2 SIDEWALK SPECIFICATIONS

SCALE: NONE



1 ASPHALT PAVEMENT

SCALE: 1" = 1'-0"

MKM
architecture + design
119 West Wayne Street
Fort Wayne, Indiana 46802
p 260.422.0783
www.MKMdesign.com

Certification:

09-13-2024
BID SET

MARK D. REINHARD
REGISTERED
No. 10911278
STATE OF INDIANA
PROFESSIONAL ENGINEER

Consultant Logo:

ENGINEERING RESOURCES, INC.
4175 New Vision Drive, Fort Wayne, IN 46845
Ph: (260) 490-1025 www.eri.consulting

Key Plan:

THE LANDING 3.0

NEW CONSTRUCTION
Fort Wayne, Indiana

REVISION		
No.	Date	Revision

DRAWING CONTENTS:
SITE DETAILS

ISSUE DATE:	PROJECT NO.
09.13.2024	23029

DRAWING NO.
C-501

September 12, 2024 11:03 AM
S:\Projects\Projects (6000-6999)\Projects (6050-6099)\6099-Landing 3.0 SITE\Drawings\6099-C-501 Site Details.dwg

BIORETENTION SOIL MIX

This item includes all labor, materials, equipment, appurtenances, incidentals, and testing requirements necessary to complete soil component selection, existing soil removal and exaction, soil preparation, mixing and placement as shown on the drawings and specified herein, including but not necessarily limited to the following:

1. Construct Soil System profiles using the specified materials and techniques as contained herein, on the drawings and by manufacturer's specifications where applicable.
2. Test, furnish, deliver and install all soil materials, including off-site borrow soils, soil amendment materials, such as sands, topsoils, organic amendment (compost) materials, aggregates and other soil amendments for use in the Soil Systems consisting of, but not necessarily limited to, the following: Bioretention Lower Profile (BLP) and Bioretention Upper Profile (BUP) comprised of the specified sand and the specified organic amendment
3. Prepare transition zone and subgrade soils in all planting areas.
4. Place, spread and bring to specified elevations all Soil Systems as indicated for each type.
5. Test installed Soil Systems to ensure compaction rates as specified.
6. Protect all Soil System installations by approved means until substantial completion.

SUBMITTALS

1. Sand and Topsoil Submittals: Engage an independent testing agency to qualify soils, soil system components and specified soil mixes. The Contractor shall submit representative samples of all component materials which are intended to be used to make mixes and all final mixes to an agricultural soil testing laboratory acceptable to the Project Manager. All soil tests shall be performed in accordance with the current methods provided by ASTM, USGA or NCR221, unless otherwise noted. All organic amendment tests shall be performed in accordance with the TMECC, unless otherwise noted. All reports prepared by the testing laboratory shall be sent to the Landscape Architect for approval. Samples of all soil materials to be brought to the site must be approved before delivery. Deficiencies in the sand, topsoil, organic materials, other mix components or final soil mixes shall be corrected by the Contractor, as directed by the Landscape Architect after review of the testing agency report. Test reports shall include the following:
   a. Date issued.
   b. Project Title and names of Contractor and supplier.
   c. Testing laboratory name, address and telephone number, and name(s), as applicable, of each field inspector or laboratory contact.
   d. Date, place, and time of sampling or test, with record of temperature and weather conditions.
   e. Location of material source.
   f. Type of test.
   g. Results of tests including identification of deviations from acceptable ranges.
   h. Soil pH and Buffer pH Test.
   i. Analysis for levels of heavy metals to include arsenic, cadmium, chromium, copper, lead, mercury, nickel, selenium and zinc. Test results shall be cited in milligrams per kilogram dry weight with comparisons to USEPA 40 CFR Table 3 of § 503.13 Pollutant Concentrations.
   j. Particle size analysis shall be performed and compared to the USDA Soil Classification System per ASTM D422 (hydrometer test). The USDA sand and gravel classifications shall be determined on material retained on the #270 sieve following a wet washing procedure.
   k. Deleterious materials shall be determined by ASTM D 5286.
   l. Percent of organic matter by weight shall be determined by ASTM D 2974 Method C, loss on ignition at 440oC.
   m. Saturated hydraulic conductivity shall be determined by ASTM F1815.
   n. Analysis for nutrient levels in parts per millions or pound per acre including Nitrate Nitrogen, Phosphorus, Potassium, Calcium, Magnesium, Iron, Manganese, Zinc, Copper, Boron and Sodium as Exchangeable Sodium Percentage (ESP) per NCR221.
   o. Soluble salts shall be determined by electrical conductivity of a 1:2 soil/water slurry reported in milliohms per cm.
   p. Cation Exchange Capacity (CEC) per NCR221using the ammonium acetate method.
   q. Soil analysis reports shall show recommendations for soil additives, including organic and inorganic soil amendments, necessary to accomplish particular mix objectives noted.
2. Organic Amendment (Compost) Submittals
   a. Reports of analyses from producers of composted organic materials are required. Testing procedures shall conform to TMECC Methods, unless otherwise noted. Reports shall include pH, salinity, total nitrogen, carbon: nitrogen ratio, phosphorus, potassium, calcium, magnesium, sodium and boron by saturated media extraction (SME per NCR-221), moisture, bulk density, particle size analysis, organic matter content and Solvita Maturity Index. Composted organic materials shall be tested for the USEPA 503 heavy metals.
3. Testing Agencies: The following firms are acceptable testing agencies for the various components.
   a. Soil physical analysis on all components and planting soil mixes including particle size analysis shall be determined by an A2LA Accredited Lab, such as Hummel & Co, 35 King Street, Trumansburg, NY 14886, tel. 607-387-5694, fax 607-387-9499 or other qualified laboratory approved by the Landscape Architects.
   b. Soil Chemical analysis on all components and planting soil mixes shall be performed by CLC LABS, 325 Venture Drive, Westerville, OH 43081, phone 614- 888-1663, fax 614-888-1330 or other qualified laboratory approved by the Landscape Architects.
   c. Compost testing shall be performed by CLC LABS, 325 Venture Drive, Westerville, OH 43081, phone 614-888-1663, fax 614-888-1330 or other qualified laboratory approved by the Landscape Architects.
4. Submit samples of all listed materials to the Project Manager for approval:
   a. Sand, each source, 5 lb. packaged.
   b. Topsoil, each source, 5 lb. packaged.
   c. Organic Amendment (Compost), each source, 5 lb. packaged
   d. Bioretention Lower Profile (BLP) and Bioretention Upper Profile (BUP) Mixes
5. Inspections and Testing
   a. Sands, soils, composts, and other materials testing as well as Soil System Mix testing required in this Section or additionally required by the Landscape Architect shall be furnished and paid for by Contractor.
   b. The Landscape Architect reserves the right to take and analyze at any time such additional samples of materials as deemed necessary for verification of conformance to specification requirements. Contractor shall furnish samples for this purpose upon request and shall perform testing as requested.
   c. Samples that do not meet the Specifications will require the Contractor to re-submit additional samples for testing. Costs for re-testing will be the responsibility of the Contractor.
   d. Observations and periodic testing will be made by the Owner or its designated representative on materials delivered to the site. Any Soil System Mixes that do not meet the requirements of the Specifications shall be removed by the Contractor at no cost to the project.

BIORETENTION MIX DESIGNS

1. General
   a. Subgrade soils may be site salvaged.
   b. Topsoil used in Base Mix or Planting Mixes may not be site salvaged and must be off-site borrow.
   c. All bioretention mix, base mix and planting mix components shall fulfill the requirements as specified.
   d. Samples of individual components all Soil Systems shall be submitted by the Contractor for testing and analysis to the approved testing laboratory.
   e. No component for the Bioretention Profile Mixes, Base Mix or the Planting Mixes shall be used until test reports from the approved testing laboratory have been received and approved by the Project Manager.
   f. As necessary, make any and all mix amendments to achieve the required specifications and resubmit tests reports indicating amendment changes until approved.
   g. Include verification testing of on-site sub-soils for suitability to support Bioretention Lower Profile Mix to provide adequate sub-surface drainage.

BIORETENTION PROFILE COMPONENTS

1. Bioretention - sand component
   a. The sand shall be a clean, sharp, natural silica sand that has been suitably washed and classified (sieved). Suitable sands may be referred to in commerce as a uniform, ASTM-33 concrete sand (preferred) or a coarse mason's sand. The selected sand must meet the following U.S.D.A. particle size distribution as well as the other gradation characteristics listed in Part 3 when tested in accordance with the ASTM D-422 using U.S.D.A. particle size classifications.
   b. The allowable particle size distribution is as follows:

U.S.D.A. Particle Class	Percent Size (mm)	Retained
Gravel	> 3.34	0 - 3
Fine Gravel	2.00 - 3.34	0 - 10
		Not more than 12% combine Gravel + Fine Gravel
Very Coarse Sand	1.00 - 2.00	10 - 25
Coarse Sand	0.50 - 1.00	20 - 40
Medium Sand	0.25 - 0.50	20 - 40
Fine Sand	0.10 - 0.25	0 - 10
Very Fine Sand	0.05 - 0.10	0 - 10
Silt + Clay	<0.05	0 - 10 (Combined Silt+Clay)

   c. Other Gradation Characteristics must fall within the limits specified below:
      Fineness Modulus (FM) - 2.5 to 3.1
      Coefficient of Uniformity - 2.5 to 3.5 preferred (< 4.1 acceptable)
   d. The sand shall meet the following specifications. Perform the following tests and submit test reports showing the following criteria are met:
      i. The particle size analysis/distribution as defined above
      ii. The pH shall be 5.5 to 7.5
      iii. The soluble salts shall be less than 0.5 mmoh/cm (NCR 221)
      iv. The organic matter content shall be less than 1.0% (ASTM D 2974 Method C)
   v. The material drainage rate shall be greater than 20 inches per hour and the total porosity shall be greater than 40% when compacted and tested according to U.S. Golf Assoc. (USGA) methods.
   e. Provide certification from the supplier that the sand does not contain any toxic substances harmful to plant growth.
1. Bioretention - organic component
   a. The compost shall be a homogeneous material essentially free of soil clods, lumps, roots and stones
   b. The compost shall have a man-made foreign material (hard plastics, metal, glass, etc.) content less than 1.5% as material retained on a U.S. Std. No. 5 (4mm) sieve (TMECC 03.06)
   c. The compost shall be screened such that a minimum of 90% passes a U.S. Std. 3/4" sieve and that no more than 10% passes a U.S. Std. No.10 sieve on a dry weight basis.
   d. The compost shall have a pH of 7.2 to 8.0
   e. The compost shall have a soluble salts content less than 6.0 milliohms per cm. when determined on a 1:5 compost/water slurry.
   f. The compost shall have an organic matter content of not less than 35% by weight determined by ASTM D2974-87 Method C on material passing a U.S. Std.1/4" sieve
   g. The compost shall have a carbon to nitrogen (C:N) ratio less than 36:1.
   h. The compost shall have a Solvita® Maturity Index between 6 and 7.
   i. The compost shall have a moisture content of 35% to 65%.
   j. The compost shall have a dry bulk density of 0.17 to 0.35 grams per cubic centimeter (g/cc)
   k. The compost shall be tested for nitrate nitrogen, phosphorus, potassium, calcium, magnesium, iron, manganese, zinc, copper, boron and sodium using the SME-DTPA extraction method (NCR-221)
   l. The heavy metal content as determined by TMECC 04.06 shall not exceed the following limits:

Element	Concentration Limits (mg/Kg d.w.)
Arsenic	41
Cadmium	39
Chromium	1200
Copper	1500
Lead	300
Mercury	17
Molybdenum	50
Nickel	420
Selenium	36
Zinc	2800

2. Bioretention profile mixes preparation
   m. Prepare the Bioretention Lower Profile Mix by thoroughly blending the Sand component and the organic component to achieve 2.0 to 3.0% organic matter when tested by ASTM D2974-87 Method C on material passing a U.S. Std.1/4" sieve
   n. Prepare the Bioretention Upper Profile Mix by thoroughly blending the Sand component and the organic component to achieve 4.0 to 5.0% organic matter when tested by ASTM D2974-87 Method C on material passing a U.S. Std.1/4" sieve
   o. Mixing shall be done using equipment designed for soil blending and screening.
   p. These mixes shall be assumed to be 4 parts of the approved Sand and 1 part of the approved compost for the purpose of developing bids. Actual mix ratios to achieve the specified organic matter content or hydraulic conductivity will vary depending on the characteristics of the compost.
   q. Manufacture 20 to 30 cu.yds of Bioretention Lower and Upper Profile Mixes and compare to a mix meeting the specifications prepared by the soil testing laboratory.
   r. Test the manufactured mixes and the laboratory test mixes for their USDA Soil Texture Analysis with Gravel/Sand Classifications using the same particle size classifications shown for the Sand component report
   s. If the manufactured mix results do not substantially match the laboratory test mix, manufacture another 20 to 30 cu. yds. following the recommendations provided by the soil testing laboratory. Repeat as necessary until the test results substantially match.
   t. The saturated hydraulic conductivity of the Bioretention Lower Profile shall be 10 to 15 inches per hour and the saturated hydraulic conductivity of the Bioretention Upper Profile shall be 2 to 7 inches per hour. Adjust the organic amendment to achieve the desired saturated hydraulic conductivity.
   u. The Upper and Lower Bioretention Profile Mixes shall have a Bray 1 Phosphorus Index less than 26 ppm (52 lbs./acre).
   v. These test results and criteria, when approved by the Landscape Architect, shall establish the standard to which all subsequent Bioretention Profile Mix tests must conform.
   w. The Bioretention Profile Mixes shall have one sample tested from each 500 cu. yds. of manufactured material using the organic matter test (ASTM D 2974 Method C).

SITE PREPARATION FOR BIORETENTION SOIL

Excavate and compact the proposed subgrade to depths, slopes and widths as shown on the plans and details. Do not over excavate compacted subgrades of adjacent pavement or structures. Confirm that the subgrade is at the proper elevation and compacted as required. Subgrade elevations shall slope parallel to the finished grade as shown on the drawings. Clear the excavation of all construction debris, trash, rubble and any foreign material. In the event that fuels, oils, concrete washout silts or other material harmful to plants have been spilled into the subgrade material, excavate the soil sufficiently to remove the harmful material. Fill any over-excavation with approved fill and compact to the required subgrade compaction. Protect adjacent walls, walks and utilities from damage or staining by the soil. Use ½" plywood and or plastic sheeting as directed to cover existing concrete, metal and masonry work and other items as directed during the progress of the work. 1.) Clean up all trash and any soil or dirt spilled on any paved surface at the end of each working day. 2.) Any damage to the paving or architectural work caused by the soils installation shall be repaired by the general contractor at the soils installation contractor's expense. Maintain all silt and sediment control devices required by applicable regulations. Provide adequate methods to assure that trucks and other equipment do no track soil from the site onto adjacent property and the public right of way.

PLACING BIORETENTION SOIL

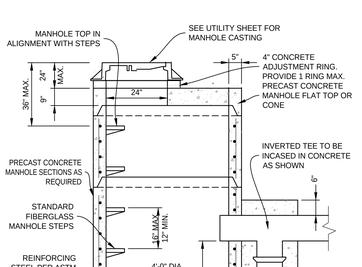
Remove all large clods, lumps, brush, roots, stumps, litter, and other foreign material and stones one-half inch (1/2") in diameter or larger. Dispose of removed material legally off-site. Do not place a muddy or wet soil mix (as defined by the Landscape Architect). Place and spread bioretention soil of the type specified over approved subgrade or transition zone areas to a depth sufficiently greater than the depth required for planting areas so that after settlement as previously approved by Project Manager, the completed work will conform to the lines, grades, and elevations shown or otherwise indicated.

10 BIORETENTION SOIL MIX SPECIFICATION
SCALE: 1" = 1'-0"

CASTING TYPE	CATALOG NUMBER NEENAH	CATALOG NUMBER EAST JORDAN	DESCRIPTION	PLAN VIEW	SECTION VIEW
A	LID & FRAME: 1772	LID: 1020AHDGS FRAME: 1022Z1	SOLID W/ "SANITARY SEWER" LETTERING		
B	LID: 2502 FRAME: 1772	LID: 1022-M1 FRAME: 1022	OPEN W/ FISH LOGO		
H	LID & FRAME: 1976	LID & FRAME: 1578	SOLID		
P	LID & FRAME: 1772	LID & FRAME: 1022Z21	SOLID W/ "ENVIRONMENTAL" LETTERING		

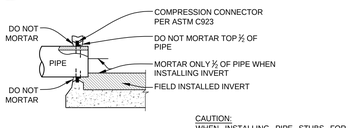
NOTES:
1. CASTINGS SPECIFIED, OR APPROVED EQUAL
2. ALL BEARING SURFACES TO BE MACHINED.
3. COMPLY WITH ASTM A48-83 CLASS #35.
*WHEN USED WITH STORM INLET, CONTRACTOR TO VERIFY IF A SPECIAL ORDER CASTING IS NEEDED TO PROVIDE SUFFICIENT SUPPORT.

7 CASTING SCHEDULE
SCALE: NONE



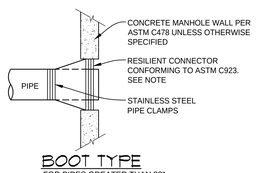
GENERAL CONSTRUCTION REQUIREMENTS:
1. MANHOLE MADE IN ACCORDANCE WITH ASTM C-478 AND INDOT SECTION 720 SPECIFICATION STANDARDS.
2. ALL PIPES SHALL HAVE A SMOOTH FINISH
3. MANHOLE JOINTS TONGUE AND GROOVE WITH BUTYL ROPE OR RING IN ACCORDANCE WITH ASTM C-443 AND ASTM C891.
4. THE BASE SHALL BE PLACED ON 6" MIN. COMPACTED CLASS I OR CLASS II MATERIAL AS DESCRIBED IN ASTM D2321.

9 SANITARY MANHOLE TYPE IV
SCALE: 1/2" = 1'-0"



COMPRESSION TYPE
FOR PIPES LESS THAN 30"

CAUTION:
WHEN INSTALLING PIPE STUBS FOR FUTURE PIPELINE, INSTALLATION OF ALL STUBS SHOULD BE PROPERLY RESTRAINED TO PREVENT ANY MOVEMENT.



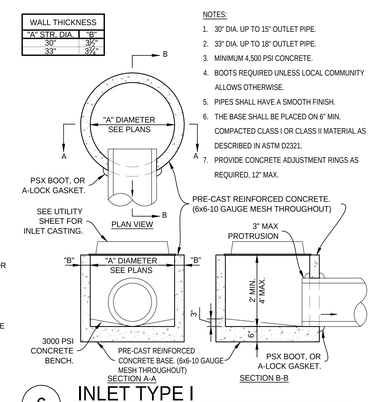
BOOT TYPE
FOR PIPES GREATER THAN 30"

NOTE:
CONTRACTOR MAY SELECT FROM TWO TYPES OF CONNECTORS:
1. BOOT TYPE, AS SHOWN AS MANUFACTURED BY PRESS SEAL GASKET CORPORATION, OR APPROVED EQUAL, OR
2. COMPRESSION TYPE, AS MANUFACTURED BY A-LOK PRODUCTS, INC., OR PIPE GASKET & SUPPLY COMPANY, INC., OR APPROVED EQUAL.

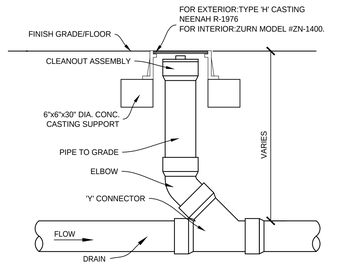
8 PIPE CONNECTION
SCALE: NONE

WALL THICKNESS "A" STR. DIA	"B"
30"	35"
33"	37"

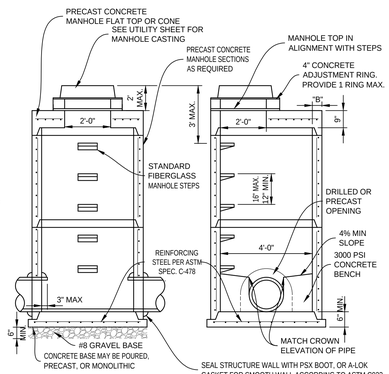
NOTES:
1. 30" DIA. UP TO 15" OUTLET PIPE.
2. 33" DIA. UP TO 18" OUTLET PIPE.
3. MINIMUM 4,500 PSI CONCRETE.
4. BOOTS REQUIRED UNLESS LOCAL COMMUNITY ALLOWS OTHERWISE.
5. PIPES SHALL HAVE A SMOOTH FINISH.
6. THE BASE SHALL BE PLACED ON 6" MIN. COMPACTED CLASS I OR CLASS II MATERIAL AS DESCRIBED IN ASTM D2321.
7. PROVIDE CONCRETE ADJUSTMENT RINGS AS REQUIRED, 12" MAX.



6 INLET TYPE I
SCALE: 1/2" = 1'-0"



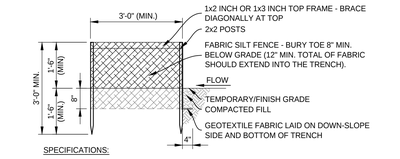
5 PVC CLEANOUT
SCALE: N.T.S.



GENERAL CONSTRUCTION REQUIREMENTS:
1. MANHOLE MADE IN ACCORDANCE WITH ASTM C-478 AND INDOT SECTION 720 SPECIFICATION STANDARDS.
2. ALL PIPES SHALL HAVE A SMOOTH FINISH
3. MANHOLE JOINTS TONGUE AND GROOVE WITH BUTYL ROPE OR RING IN ACCORDANCE WITH ASTM C-443 AND ASTM C891.
4. THE BASE SHALL BE PLACED ON 6" MIN. COMPACTED CLASS I OR CLASS II MATERIAL AS DESCRIBED IN ASTM D2321.

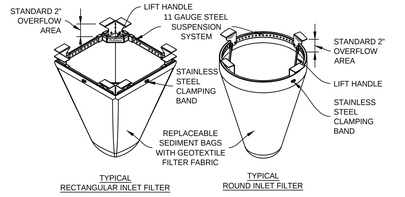
WALL THICKNESS "A" MH DIA	"B"
48"	5"
60"	6"
72"	7"
84"	8"
96"	9"
108"	10"
120"	11"

4 SANITARY MANHOLE TYPE I
SCALE: 3/8" = 1'-0"



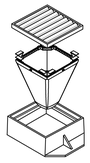
SPECIFICATIONS:
1. INSPECT THE FABRIC BARRIER AFTER STORM EVENTS, AND MAKE NEEDED REPAIRS IMMEDIATELY.
2. REMOVE SEDIMENT FROM THE POOL AREA TO PROVIDE STORAGE FOR THE NEXT STORM. AVOID DAMAGING OR UNDERCUTTING THE FABRIC DURING SEDIMENT REMOVAL.
3. REMOVE AND PROPERLY DISPOSE OF ALL CONSTRUCTION MATERIAL AND SEDIMENT WHEN THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED. GRADE THE AREA TO THE ELEVATION OF THE TOP OF THE INLET, THEN STABILIZE

3 YARD INLET PROTECTION
SCALE: 1/2" = 1'-0"



TYPICAL RECTANGULAR INLET FILTER

TYPICAL ROUND INLET FILTER



FLEXSTORM DISTRIBUTED BY: ADS
AND MANUFACTURED BY:

INLET & PIPE PROTECTION, INC.
24137 W. 111TH ST., UNIT A
NAPERVILLE, IL 60564
PH: (866) 287-8655
FAX: (630) 355-3477
WWW.INLETFILTERS.COM
INFO@INLETFILTERS.COM

INSTALLATION:
- REMOVE GRATE
- DROP FLEXSTORM INLET FILTER INTO LOAD BEARING LIP OF CASTING OR CONCRETE STRUCTURE
- REPLACE GRATE

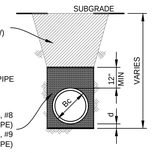
2 PAVEMENT INLET PROTECTION
SCALE: NONE

BEDDING SPECIFICATIONS

1. FOR ROCK OR OTHER NON-COMPRESSIBLE MATERIAL, THE TRENCH SHALL BE OVER EXCAVATED A MINIMUM OF 6" AND REFILLED WITH BEDDING MATERIAL.
2.

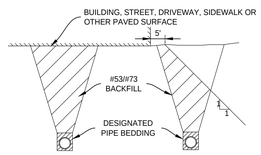
DEPTH OF BEDDING MATERIAL BELOW PIPE D	d (Min.)
LESS THAN 60"	4"
60" & LARGER	6"

LEGEND
Bc = OUTSIDE DIA. OF PIPE
D = INSIDE DIA. OF PIPE
d = BEDDING MATERIAL BELOW PIPE BELL



BACKFILL SPECIFICATIONS

1. BACKFILL WITHIN PUBLIC R.O.W., UNDER PAVED AREAS, AND WITHIN THE INFLUENCE OF BUILDING STRUCTURES SHALL BE INDOT #53/#73. INFLUENCE ZONE SHALL EXTEND AT A 1:1 SLOPE FROM ABOVE ITEM. COMPACTION SHALL MEET OR EXCEED 95% OF MAXIMUM DRY UNIT WEIGHT ACCORDING TO ASTM D 1557.
2. BACKFILL WITHIN LAWN AREAS AND OUT OF THE INFLUENCE OF: BUILDING STRUCTURES, PAVED AREAS, AND PUBLIC R.O.W., SHALL BE STANDARD BACKFILL. STANDARD BACKFILL SHALL BE FREE OF: ROCK AND GRAVEL LARGER THAN 3" IN ANY DIMENSION, DEBRIS, WASTE, FROZEN MATERIALS, VEGETATION, AND OTHER DELETERIOUS MATERIAL ACCORDING TO ASTM D 2487. COMPACTION SHALL MEET OR EXCEED 90% OF MAXIMUM DRY UNIT WEIGHT ACCORDING TO ASTM D 1557.



INFLUENCE LINE
SCALE: N.T.S.

1 PIPE TRENCH DETAIL
SCALE: NONE

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119 West Wayne Street
Fort Wayne, Indiana 46802
p 260.422.0783
www.MKMdesign.com

Certification: 09-13-2024 BID SET

MARK D. REINHARD REGISTERED No. 10911278 STATE OF INDIANA PROFESSIONAL ENGINEER

Consultant Logo:

ENGINEERING RESOURCES, INC.
4175 New Vision Drive, Fort Wayne, IN 46845
Ph: (260) 490-1025 www.eri.consulting

Key Plan:

THE LANDING 3.0

NEW CONSTRUCTION
Fort Wayne, Indiana

REVISION		
No.	Date	Revision

DRAWING CONTENTS:
SITE UTILITY DETAILS

ISSUE DATE:	PROJECT NO.
09.13.2024	23029

DRAWING NO.
C-502

September 12, 2024 11:03 AM
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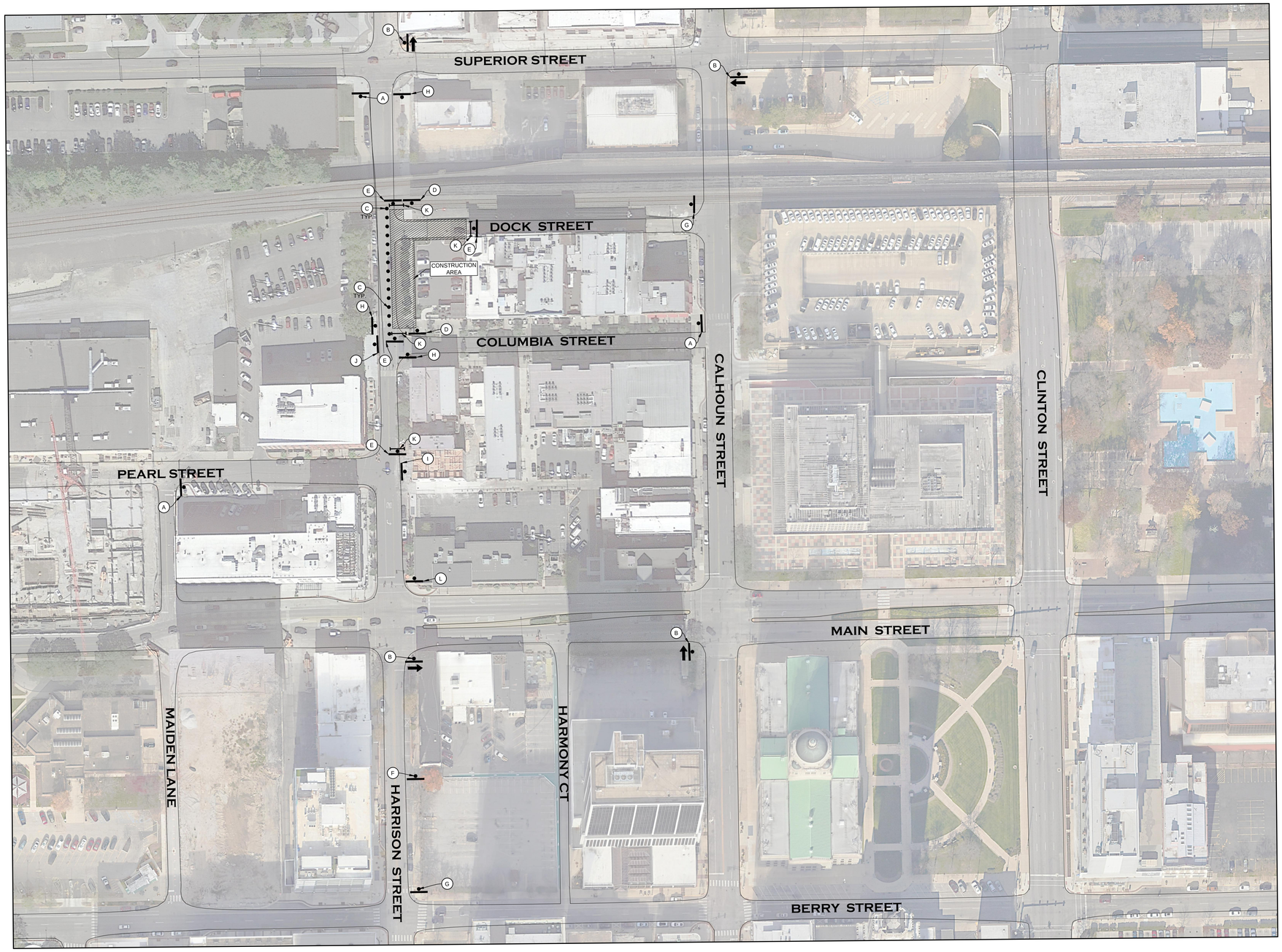

LEGEND		
SYMBOL	MARK	DESCRIPTION
	A	Road Construction Ahead Sign (MUTCD #W20-1)
	B	Detour Sign
	C	Barrel for Lane Closure
	D	Sidewalk Closed Sign (MUTCD #R9-9)
	E	Do Not Enter Sign (MUTCD #R5-1)
	F	Detour Ahead Sign (MUTCD #W20-2)
	G	Road Closed Ahead Sign (MUTCD #W20-3)
	H	Walk Detour Sign (MUTCD #M4-9b)
	I	No Left Turn Sign (MUTCD #R3-2)
	J	No Right Turn Sign (MUTCD #R3-1)
	K	Type III Barricade With Road Closed Sign
	L	Road Closed to Thru Traffic Sign (MUTCD #R11-4)

NOTE:

CONTRACTOR RESPONSIBLE FOR ALL MAINTENANCE OF TRAFFIC - SIGNS AND DEVICES SHOWN DO NOT REFLECT ALL NECESSARY SIGNS, BARRICADES, AND FENCES FOR VEHICULAR AND PEDESTRIAN TRAFFIC CONTROL. CONTRACTOR TO COORDINATE WITH THE CITY OF FORT WAYNE ON THE FINAL MAINTENANCE OF TRAFFIC PLAN, INCLUDING DETOUR ROUTE(S).

MAINTENANCE OF TRAFFIC PLAN

1" = 60'-0"

NORTH

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119 West Wayne Street
Fort Wayne, Indiana 46802
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MARK D. REINHARD
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Key Plan:

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Fort Wayne, Indiana

REVISION		
No.	Date	Revision

DRAWING CONTENTS:
MAINTENANCE OF TRAFFIC PLAN

ISSUE DATE:	PROJECT NO.
09.13.2024	23029

DRAWING NO.

C-601

September 12, 2024 11:03 AM
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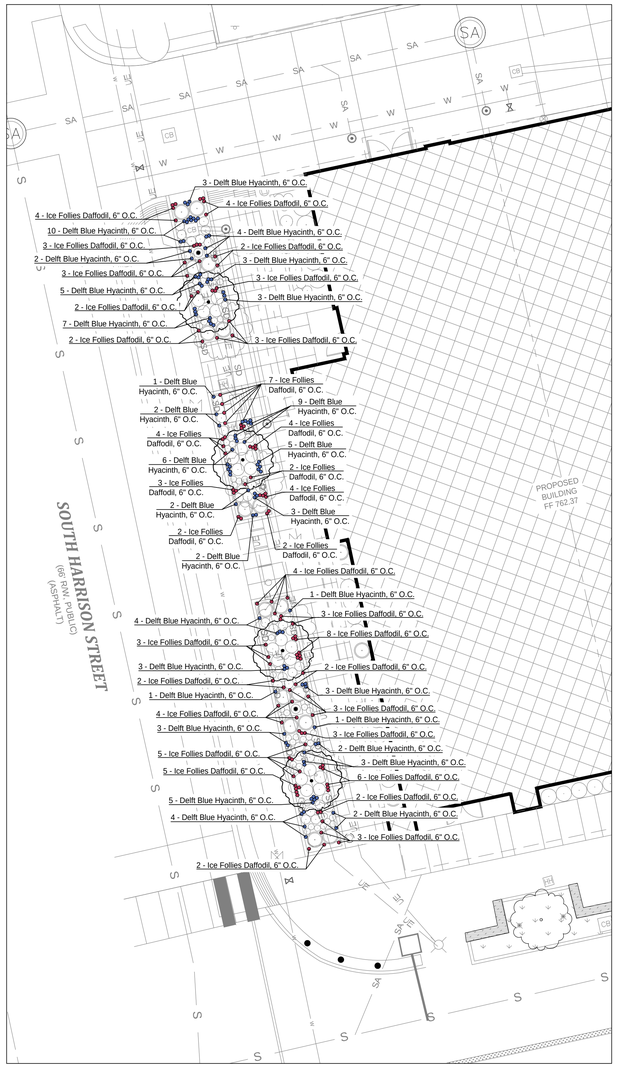
SITE LANDSCAPE PLAN

1" = 10'-0"

NORTH



SITE LANDSCAPE PLAN - BULB PLANTING

1" = 10'-0"

NORTH

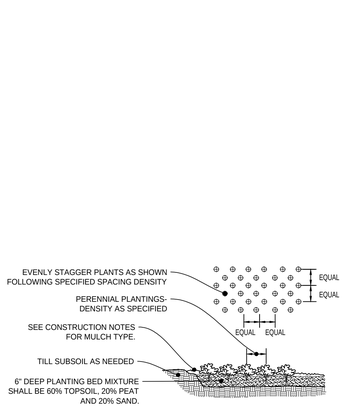
LANDSCAPE NOTES:

1. ALL PLANTING BEDS SHALL HAVE 3" OF HARDWOOD SHREDDED MULCH. MULCH TO BE HELD 1" MIN. BELOW FINISH FLOOR AT BUILDING. MAINTAIN POSITIVE DRAINAGE AWAY FROM BUILDING.
2. PLANTING BED TO HAVE 2' PLANTING SOIL MINIMUM.
3. BIORETENTION SOIL MIX AREA PER DETAIL #19/C-501 AND BIORETENTION SOIL MIX SPECIFICATION ON SHEET C-502.
4. COORDINATE ALL PLANTINGS WITH UNDERGROUND UTILITIES.
5. INSTALL PERENNIALS PER PLANTING DETAIL #3/L-101.
6. INSTALL TREES PER PLANTING DETAIL #1/L-101.
7. INSTALL SHRUBS PER PLANTING DETAIL #2/L-101.
8. IF A DISCREPANCY IS FOUND BETWEEN THE QUANTITIES SHOWN ON THE PLANT LIST AND ON THE PLANTING PLAN, THEN THE PLANTING PLAN SHALL TAKE PRECEDENCE.
9. ONLY DELIVER PLANTS TO THE SITE WHEN PLANTING IS READY TO BEGIN. IF A DELAY ARISES OF MORE THAN 6 HOURS, MOVE PLANTS FROM PROPERTY TO A SHADED PROTECTED SITE, AND KEEP ROOTS MOIST. ALSO, ENSURE THE PLANTS ARE PROTECTED FROM MECHANICAL DAMAGE.

Indiana 811
Know what's below. Call before you dig.

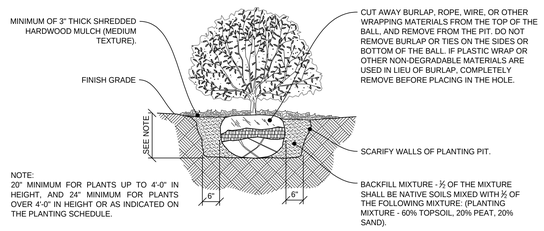
PLANTING SCHEDULE

QTY	COMMON NAME	BOTANICAL NAME	SIZE	ROOT	SPACING
	TREES				
5	Bloodgood London Planetree	Platanus × acerifolia 'Bloodgood'	3" cal.	B&B	As Shown
	SHRUBS				
16	Little Henry Sweetspire	Itea virginica 'Sprich'	15"-18"	3 Gallon	2.5' O.C.
4	Tiny Quick Fire Hydrangea	Tiny Quick Fire® Hydrangea paniculata 'SMNHPSB'	15" -18"	3 Gallon	2.5' O.C.
	PERENNIALS/ORNAMENTAL GRASS				
25	Big Blue Lilyturf	Liriope muscari 'Big Blue'	------	1 Gallon	24" O.C.
5	Big Daddy Hosta	Hosta 'Big Daddy'	------	1 Gallon	36" O.C.
3	Blue False Indigo	Baptisia australis	------	1 Gallon	36" O.C.
9	Blue Flag Iris	Iris versicolor	------	1 Gallon	As Shown
8	Eastern Star Sedge	Carex radiata	------	1 Gallon	18" O.C.
6	Golden Tiara Hosta	Hosta 'Golden Tiara'	------	1 Gallon	18" O.C.
24	Happy Returns Daylily	Hemerocallis 'Happy Returns'	------	1 Gallon	18" O.C.
16	Karl Foerster's Feather Reed Grass	Calamagrostis x acutiflola 'Karl Foerster'	------	3 Gallon	30" O.C.
23	May Night Salvia	Salvia x sylvestris 'May Night'	------	1 Gallon	18" O.C.
39	Snowcap Shasta Daisy	Leucanthemum x superbum 'Snowcap'	------	2 Gallon	12" O.C.
24	Threadleaf Coreopsis	Coreopsis verticillata 'Zagreb'	------	1 Gallon	12" O.C.
	BULBS				
99	Delft Blue Hyacinth	Hyacinth orientalis 'Delft Blue'	------	------	As Shown
109	Ice Follies Daffodil	Narcissus 'Ice Follies'	------	------	As Shown



3 PERENNIAL PLANTING DETAIL

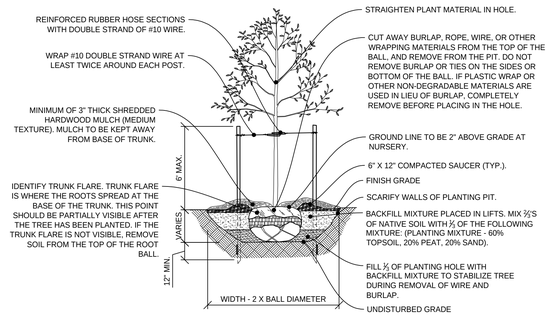
SCALE: NONE



NOTE:
20" MINIMUM FOR PLANTS UP TO 4'-0" IN HEIGHT, AND 24" MINIMUM FOR PLANTS OVER 4'-0" IN HEIGHT OR AS INDICATED ON THE PLANTING SCHEDULE.

2 SHRUB PLANTING DETAIL

SCALE: NONE



1 TREE PLANTING W/ POST DETAIL

SCALE: NONE

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Certification:

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DANE L. REYNOLDS
REGISTERED
No. 20000273
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PROFESSIONAL LANDSCAPE ARCHITECT

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Key Plan:

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DRAWING CONTENTS:
SITE LANDSCAPE PLAN

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09.13.2024	23029

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L-101

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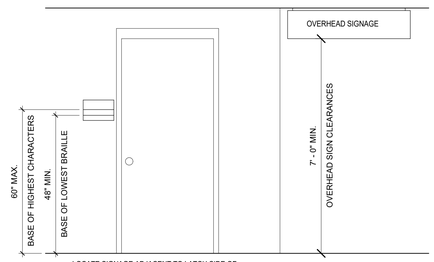
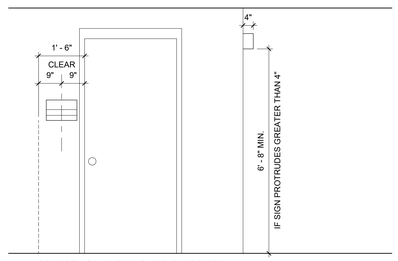
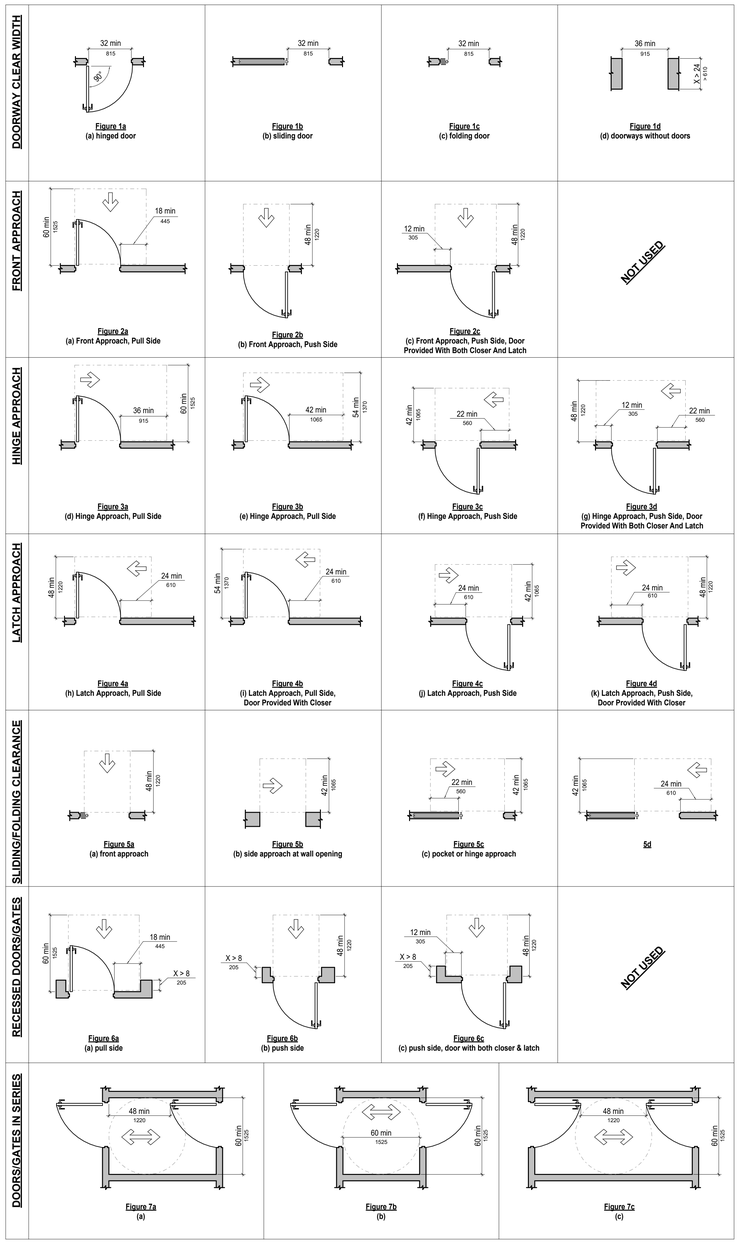




SIGNAGE LOCATIONS



ADA/ ANSI DOOR & OPENINGS CLEARANCES

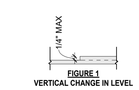


FIGURE 1
VERTICAL CHANGE IN LEVEL

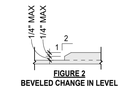


FIGURE 2
BEVELED CHANGE IN LEVEL

FIGURE 3
CARPET PILE LENGTH

ADA/ ANSI FLOOR TRANSITIONS

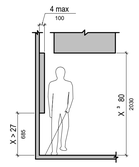


FIGURE 1
LIMITS OF PROTRUDING OBJECTS

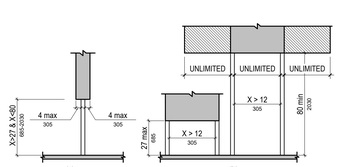


FIGURE 2
POST-MOUNTED PROTRUDING OBJECTS

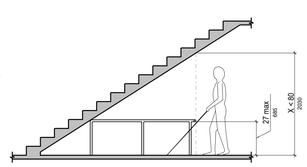


FIGURE 3
VERTICAL CLEARANCE

ADA/ ANSI PROTRUDING OBJECTS

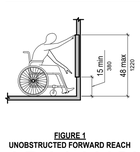


FIGURE 1
UNOBSTRUCTED FORWARD REACH

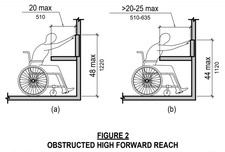


FIGURE 2
OBSTRUCTED HIGH FORWARD REACH

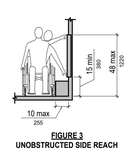


FIGURE 3
UNOBSTRUCTED SIDE REACH

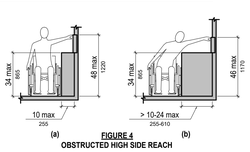


FIGURE 4
OBSTRUCTED HIGH SIDE REACH

ADA/ ANSI FRONT/ SIDE REACH

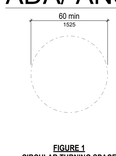


FIGURE 1
CIRCULAR TURNING SPACE

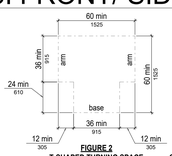


FIGURE 2
T-SHAPED TURNING SPACE

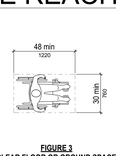


FIGURE 3
CLEAR FLOOR OR GROUND SPACE

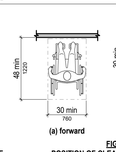
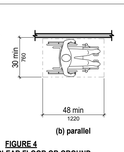


FIGURE 4
POSITION OF CLEAR FLOOR OR GROUND SPACE



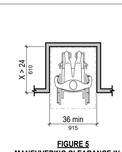


FIGURE 5
MANEUVERING CLEARANCE IN AN ALCOVE, FORWARD APPROACH

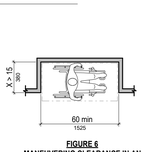
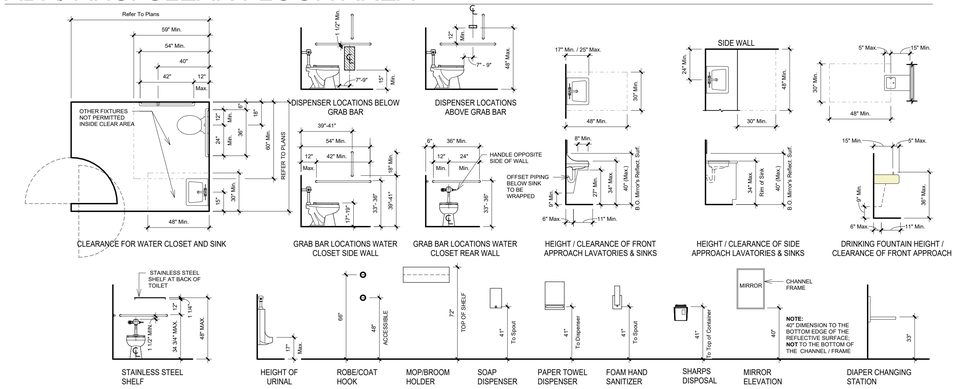
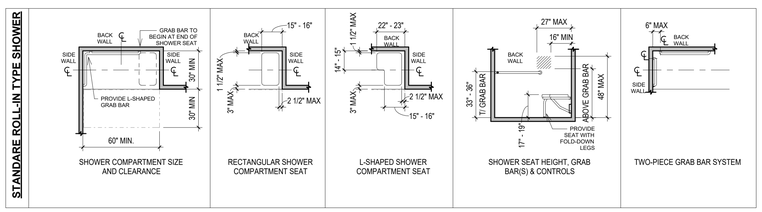


FIGURE 6
MANEUVERING CLEARANCE IN AN ALCOVE, PARALLEL APPROACH

ADA/ ANSI CLEAR FLOOR AREA



ADA/ ANSI FIXTURE & ACCESSORY CLEARANCES



ADA/ ANSI SHOWER CONFIGURATIONS

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555 S. HARRISON ST.
Fort Wayne, Indiana 46802

REVISION		
No.	Date	Revision

DRAWING CONTENTS:
ADA CLEARANCES + MOUNTING HEIGHTS

ISSUE DATE: 09.13.2024
PROJECT NO. 23029

DRAWING NO.
G-010

CODE REVIEW NOTES.

BUILDING CODES: 2012 INTERNATIONAL BUILDING CODE
(W/ 2014 INDIANA AMENDMENTS)

TOTAL BUILDING HEIGHT & AREA SUMMARY

TOTAL BUILDING HEIGHT: 6-STORY, 76'-9" OVERALL BUILDING HEIGHT

TOTAL BUILDING AREA - BUILDING SQUARE FOOTAGE:

1st FLOOR =	6,609 SF + 1,642 SF CANOPY
2nd FLOOR:	6,915 SF + 155 SF BALCONY
3rd FLOOR:	6,915 SF + 155 SF BALCONY
4th FLOOR:	6,915 SF + 155 SF BALCONY
5th FLOOR:	6,915 SF + 155 SF BALCONY
6th FLOOR:	6,915 SF + 155 SF BALCONY
TOTAL=	41, 184SF + 1,778 SF BALCONY/ CANOPY = **42,962 SF**

BUILDING "A" (FLOOR 1) CODE REVIEW

CONSTRUCTION TYPE: I-A (PROTECTED) (FULLY SPRINKLED PER NFPA 13)

OCCUPANCY TYPE: GROUP : R-2/ A-2/B

ALLOWABLE AREA SQUARE FOOTAGE: UNLIMITED SF

ALLOWABLE BUILDING HEIGHT: UNLIMITED HEIGHT

BUILDING HEIGHT: 1- STORY

BUILDING SQUARE FOOTAGE: FIRST FLOOR = 6,609 SF + 1,023 SF CANOPY = 7,632 SF

CHAPTER 5. 510.2 Horizontal building separation allowance. A building shall be considered as separate and distinct buildings for the purpose of determining area limitations, continuity of fire walls, limitation of number of stories and type of construction where all of the following conditions are met:
1. The buildings are separated with a horizontal assembly having a fire-resistance rating of not less than 3 hours.
2. The building below the horizontal assembly is not greater than one story above grade plane.
3. The building below the horizontal assembly is of Type IA construction.
4. Shaft, stairway, ramp and escalator enclosures through the horizontal assembly shall have not less than a 2-Hour fire-resistance rating with opening protective's in accordance with Section 716.5.

Exception: Where the enclosure walls below the Horizontal assembly have not less than a 3-hour fire-resistance rating with opening protective's in accordance with Section 716.5, fire enclosure walls extending above the horizontal assembly shall be permitted to have a 1-hour FIRE RESISTANCE rating.

CHAPTER 6:

TABLE 601 CONSTRUCTION TYPE:	I-A
STRUCTURAL FRAME =	3 HR
BEARING WALLS EXTERIOR =	3 HR
BEARING WALLS INTERIOR =	3 HR
NONBEARING INTERIOR =	0 HR (SEE SECTION 709.3 FOR ADDITIONAL INFORMATION)
ROOF =	1 1/2-HR
FLOORS =	2-HR

CHAPTER 7:
SECTION 718.2.2: FIRE BLOCKING SHALL BE PROVIDED VERTICALLY AT CEILING AND FLOOR LEVELS, AND HORIZONTALLY AT INTERVALS NOT EXCEEDING 10'

CHAPTER 9:
SECTION 903.3.1.1 NFPA 13 SPRINKLER SYSTEM

CHAPTER 10:
SECTION 1007.3: EXCEPTION #7: AREA OF REFUGE IS NOT REQUIRED WHEN BUILDING IS SPRINKLED
TABLE 1016.1: EXIT ACCESS TRAVEL DISTANCE 250'
SECTION 1018.4: EXCEPTION #2: DEAD-END CORRIDOR 50' MAX.
SECTION 1023.2: EXIT STAIRWAYS SHALL HAVE A 2-HOUR FIRE RESISTANCE RATING.

BUILDING CODES: 2012 INTERNATIONAL BUILDING CODE
(W/ 2014 INDIANA AMENDMENTS)

BUILDING "B" (FLOORS 2-6) CODE REVIEW

CONSTRUCTION TYPE: III-A (1-HR PROTECTED)
(FULLY SPRINKLED PER NFPA 13)

OCCUPANCY TYPE; GROUP : R-2

ALLOWABLE AREA SQUARE FOOTAGE: 24,000 SF PER FLOOR

ALLOWABLE BUILDING HEIGHT: 4- STORY (65 FT)
BUILDING HEIGHT INCREASE: 1 STORY + 20 FEET PER SECTION 504.2 = 5 STORY (85 FT)
BUILDING HEIGHT: 5- STORY (65 FT)

BUILDING SQUARE FOOTAGE:

2nd FLOOR:	6,915 SF + 155 SF BALCONY
3rd FLOOR:	6,915 SF + 155 SF BALCONY
4th FLOOR:	6,915 SF + 155 SF BALCONY
5th FLOOR:	6,915 SF + 155 SF BALCONY
6th FLOOR:	6,915 SF + 155 SF BALCONY
TOTAL=	34,575 SF + 775 SF BALCONY = 35,350 SF

CHAPTER 4:
SECTION 420.2: SEPARATION WALLS - BETWEEN DWELLING UNITS & OTHER OCCUPANCIES PER SECTION 708
SECTION 420.3: HORIZONTAL SEPARATION – BETWEEN DWELLING UNITS & OTHER OCCUPANCIES PER SECTION 711
SECTION 420.4: AUTOMATIC SPRINKLER SYSTEM- GROUP R OCCUPANCIES SHALL BE EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM PER SECTION 903.2.8
SECTION 420.5: SMOKE DETECTION AND FIRE ALARM SYSTEMS - FIRE ALARM AND SMOKE ALARMS SHALL BE PROVIDED IN GROUP R-2 OCCUPANCIES PER SECTIONS 907.2.6, 907.2.8, 907.2.9.

CHAPTER 6:

TABLE 601:CONSTRUCTION TYPE;	III-A
STRUCTURAL FRAME =	1 HR
BEARING WALLS EXTERIOR =	2 HR
BEARING WALLS INTERIOR =	1 HR
NONBEARING INTERIOR =	0 HR (SEE SECTION 709.3 FOR ADDITIONAL INFORMATION)
ROOF =	1-HR
CORRIDOR WALLS -	1 HR PER SECTION TABLE 1018.1
FLOOR =	1-HR PER SECTION 420.3/ 711
ROOF =	1-HR HORIZONTAL ASSEMBLY TO TERMINATE RATED DEMISING WALLS PER 708.\

CHAPTER 7:
SECTION 708.3: DWELLING UNIT & SLEEPING UNITS IN TYPE CONSTRUCTION SHALL HAVE 1-HR SEPARATION
SECTION 718.2.2: FIRE BLOCKING SHALL BE PROVIDED VERTICALLY AT CEILING AND FLOOR LEVELS, AND HORIZONTALLY AT INTERVALS NOT EXCEEDING 10'

SECTION 718.3.2: DRAFTSTOPPING IN FLOORS: GROUPS R-2 - (EXCEPTION #2) DRAFTSTOPPING IS NOT REQUIRED IN BUILDING EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM PER SECTION 903.1.2 PROVIDED THAT THE AUTOMATIC SPRINKLERS ARE ALSO INSTALLED IN THE CONCEALED SPACES WHERE THE DRAFTSTOPPING IS BEING OMITTED

CHAPTER 8:
TABLE 803.9: GROUP R-2 EXITS CLASS C; CORRIDORS AND ROOMS CLASS C
CLASS C - FLAME SPREAD 76-200 & SMOKE DEVELOP 0-450

CHAPTER 9:
SECTION 903.3.1.1 NFPA 13 SPRINKLER SYSTEM

CHAPTER 10:
SECTION 1007.3: EXCEPTION #7: AREA OF REFUGE IS NOT REQUIRED EXCEPTION #7: AREA OF REFUGE IS NOT REQUIRED WHEN BUILDING IS SPRINKLED
TABLE 1014.3: COMMON PATH OF TRAVEL DISTANCE 75'
TABLE 1016.1: EXIT ACCESS TRAVEL DISTANCE 250'
SECTION 1018.4: EXCEPTION #2: DEAD-END CORRIDOR 50' MAX.
SECTION 1023.2: EXIT STAIRWAYS SHALL HAVE A 1-HOUR FIRE RESISTANCE RATING.
SECTION 1027.1: EXCEPTION #1: 50-PERCENT OF EXIT ENCLOSURES PERMITTED TO EGRESS THROUGH AREAS ON THE LEVEL OF DISCHARGE
SECTION 1027.2: EXCEPTION #2: 50-PERCENT OF EXIT ENCLOSURES PERMITTED TO EGRESS THROUGH A VESTIBULE

SPECIAL NOTE: THE PROJECT HAS BEEN GRANTED (2) VARIANCES
1. VARIANCE WAIVING THE REQUIREMENTS OF IBC SECTION 1007.2.1 FOR EMERGENCY POWER TO BE SUPPLIED TO THE ELEVATOR.
2. VARIANCE WAIVING THE REQUIREMENTS FOR ELEVATOR HOISTWAY VENTING PER IBC SECTION 3004.1

CODE REVIEW PLAN GENERAL NOTES:

1. REFER TO LIFE SAFETY/ RATED FRAMING DETAILS SHEETS FOR RATED ASSEMBLY DETAILS.
2. REFER TO DOOR SCHEDULE FOR ALL DOOR AND FRAME RATINGS.
3. CONTRACTOR SHALL CAREFULLY STUDY CODE REVIEW PLANS AND MEP DRAWINGS AND COORDINATE PENETRATIONS, DAMPERS, ECT. WITH ALL RELATED TRADES. REPORT IN WRITING TO THE ARCHITECT ANY INCONSISTENCY HEREIN.

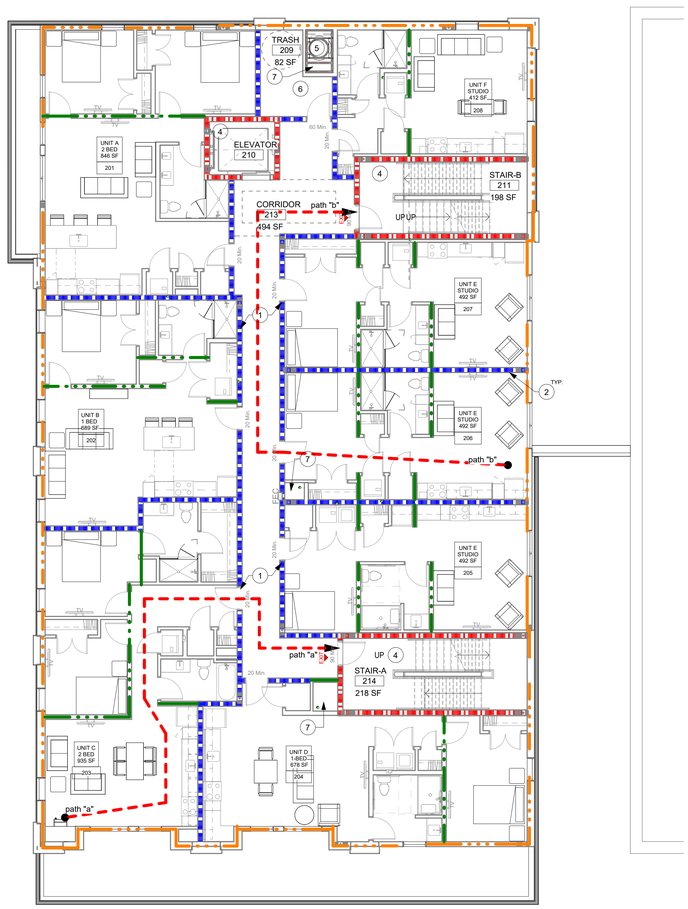
CODE REVIEW PLAN NOTES	
1	1-HR RATED CORRIDOR WITH 20 MIN. DOORS PER IBC SECTION 708.3/ TABLE 716.5
2	1-HR UNIT DEMISING WALL PER IBC SECTION 420.2/ 708.3 WITH NFPA 13 SPRINKLER SYSTEM
3	2-HR RATED TRASH CHUTE TERMINATION ROOM WITH 90 MIN DOORS PER IBC SECTION 713.13.4
4	2-HR RATED STAIR/ ELEVATOR SHAFT PER IBC SECTION 713.4 (SEE HORIZONTAL ASSEMBLIES PLAN FOR SHAFT TERMINATION AT ROOF.)
5	2-HR RATED TRASH CHUTE SHAFT PER IBC SECTION 713.13 (SEE SECTION DETAIL.)
6	1-HR RATED TRASH CHUTE ACCESS ROOM WITH 45 MIN. DOOR PER IBC SECTION 713.13.3
7	2-HR RATED MECHANICAL SHAFT PER IBC SECTION 713.4 (SEE HORIZONTAL ASSEMBLIES PLAN FOR SHAFT TERMINATION AT ROOF. AND SECTION DETAIL FOR TERMINATION AT LOWEST FLOOR)
8	2-HR RATED FIRE PUMP ROOM PER SECTION 913.2.1
9	NON SEPARATED MIXED OCCUPANCY (B/ R-2) PER IBC SECTION 508.3.1.
10	MAX OF 50% OF TOTAL EXIT CAPACITY MAY EXIT THROUGH A SPACE ON THE LEVEL OF EXIT DISCHARGE PER IBC SECTION 1027.1 EXP. #1
11	2-HR RATED EXIT PASSAGEWAY PER IBC SECTION 1023.
12	2-HR RATED DOOR REQUIRED BETWEEN STAIR AND EXIT PASSAGEWAY PER IBC SECTION 1022.3.1

EGRESS PATH - TOTAL LENGTH

EXIT ROUTE	DISTANCE
path "a"	72' - 7"
path "b"	77' - 0"
path "c"	68' - 11"
path "d"	67' - 2"

CODE REVIEW - WALL AND SYMBOL LEGEND

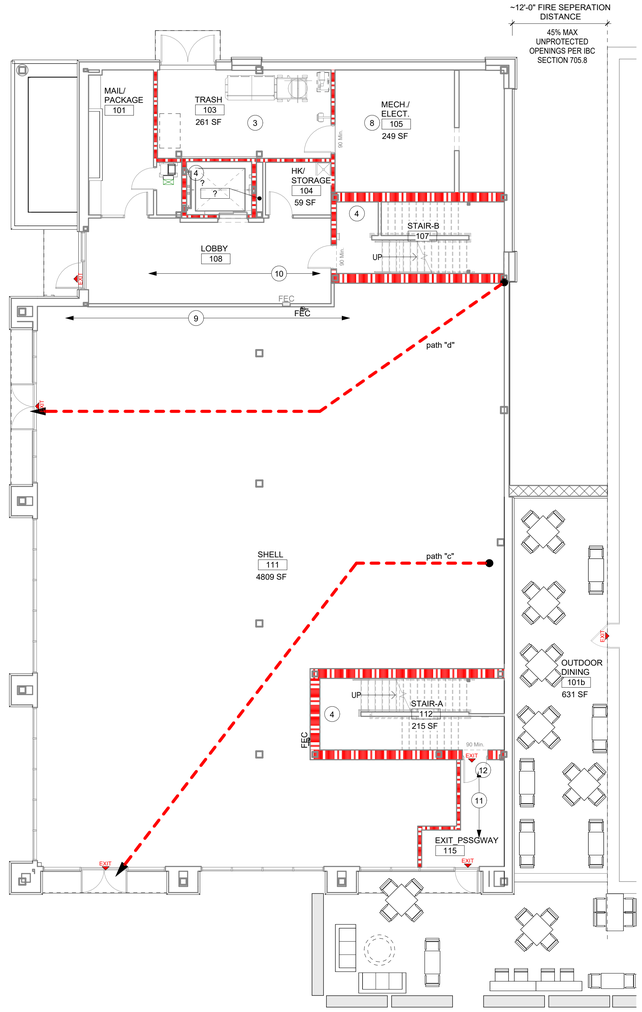
	SMOKE PARTITION
	1 - HOUR FIRE PARTITION
	1 - HOUR SMOKE BARRIER
	2 - HOUR FIRE PARTITION
	2 -HR **FIRE RESISTIVE RATED** EXTERIOR BEARING WALL PER IBC TABLE 601 (UL DESIGN # 349) SEE WALL SECTIONS AND UL ASSEMBLIES.
	1 -HR **FIRE RESISTIVE RATED** INTERIOR BEARING WALL PER IBC TABLE 601 NO DOOR RATINGS REQUIERD PER SECTION 001
	TRAVEL DISTANCE TO EXIT (SEE EGRESS PATH SCHEDULE)
EXIT	EXIT
HORIZ EXIT	HORIZONTAL EXIT
/ FEC	FIRE EXTINGUISHER CABINET
DOOR RATING xx	FIRE RATED DOOR. SEE DOOR SCHEDULE



SECOND FLOOR CODE REVIEW PLAN

1/8" = 1'-0"

NORTH



FIRST FLOOR CODE REVIEW PLAN

1/8" = 1'-0"

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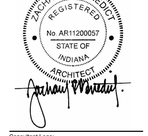

Consultant Logo:

Key Plan:

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REVISION

No.	Date	Revision

DRAWING CONTENTS:
FIRST & SECOND FLOOR CODE REVIEW PLANS & CODE REVIEW NOTES

ISSUE DATE: 09.13.2024
PROJECT NO. 23029

DRAWING NO.
G-111a

Plot Time/Date: 9/13/2024 2:48:06 PM
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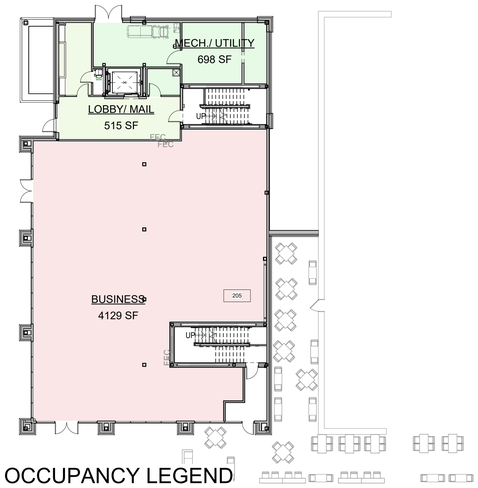


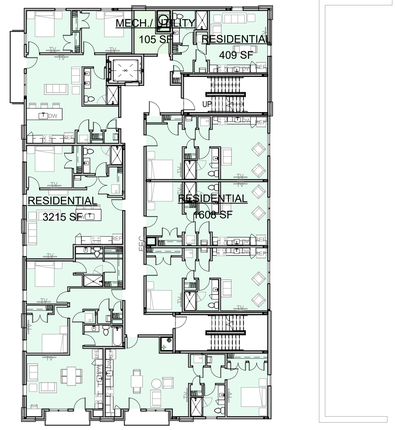
OCCUPANCY LEGEND

- BUSINESS
- LOBBY/ MAIL
- MECH./ UTILITY

1st FLOOR -OCCUPANT LOAD PLAN

1/16" = 1'-0"

NORTH



OCCUPANCY LEGEND

- MECH./ UTILITY
- RESIDENTIAL

FLOOR 2-6 - OCCUPANT LOAD PLAN

1/16" = 1'-0"

NORTH

BUILDING OCCUPANCY FACTOR

OCCUPANCY FACTORS BASED ON IBC 2014 TABLE 1004.1.2

Function Of Space	Area	Occupancy Factor	Net or Gross	Total Occupant Load
LEVEL 1 - FIRST FLOOR				
BUSINESS	4129 SF	100		**42**
LOBBY/ MAIL	515 SF	15		**35**
MECH./ UTILITY	698 SF	300		**3**
LEVEL 1 - FIRST FLOOR: 3	5341 SF			80
LEVEL 2 - SECOND FLOOR				
MECH./ UTILITY	105 SF	300		**1**
RESIDENTIAL	5120 SF	200		**27**
LEVEL 2 - SECOND FLOOR: 4	5225 SF			28
LEVEL 3 - THIRD FLOOR				
MECH./ UTILITY	105 SF	300		**1**
RESIDENTIAL	5232 SF	200		**29**
LEVEL 3 - THIRD FLOOR: 4	5337 SF			30
LEVEL 4 - FOURTH FLOOR				
MECH./ UTILITY	94 SF	300		**1**
RESIDENTIAL	5007 SF	200		**26**
LEVEL 4 - FOURTH FLOOR: 4	5101 SF			27
LEVEL 5 - FIFTH FLOOR				
MECH./ UTILITY	94 SF	300		**1**
RESIDENTIAL	5007 SF	200		**26**
LEVEL 5 - FIFTH FLOOR: 4	5101 SF			27
LEVEL 6 - SIXTH FLOOR				
MECH./ UTILITY	94 SF	300		**1**
RESIDENTIAL	5007 SF	200		**26**
LEVEL 6 - SIXTH FLOOR: 4	5101 SF			27
Total Occupancy: 23	31208 SF			219

CODE REVIEW - WALL AND SYMBOL LEGEND

	SMOKE PARTITION
	1 - HOUR FIRE PARTITION
	1 - HOUR SMOKE BARRIER
	2 - HOUR FIRE PARTITION
	2 -HR **FIRE RESITIVE RATED** EXTERIOR BEARING WALL PER IBC TABLE 601 (UL DESIGN # 349) SEE WALL SECTIONS AND UL ASSEMBLIES.
	1 -HR **FIRE RESITIVE RATED** INTERIOR BEARING WALL PER IBC TABLE 601 NO DOOR RATINGS REQUIERD PER SECTION 601
	TRAVEL DISTANCE TO EXIT (SEE EGRESS PATH SCHEDULE)
EXIT	EXIT
HORZ EXIT	HORIZONTAL EXIT
/ FEC	FIRE EXTINGUISHER CABINET
DOOR RATING XX	FIRE RATED DOOR. SEE DOOR SCHEDULE

	CODE REVIEW PLAN NOTES
1	1-HR RATED CORRIDOR WITH 20 MIN. DOORS PER IBC SECTION 708.3/ TABLE 716.5
2	1-HR UNIT DEMISING WALL PER IBC SECTION 420.2/ 708.3 WITH NFPA 13 SPRINKLER SYSTEM
3	2-HR RATED TRASH CHUTE TERMINATION ROOM WITH 90 MIN DOORS PER IBC SECTION 713.13.4
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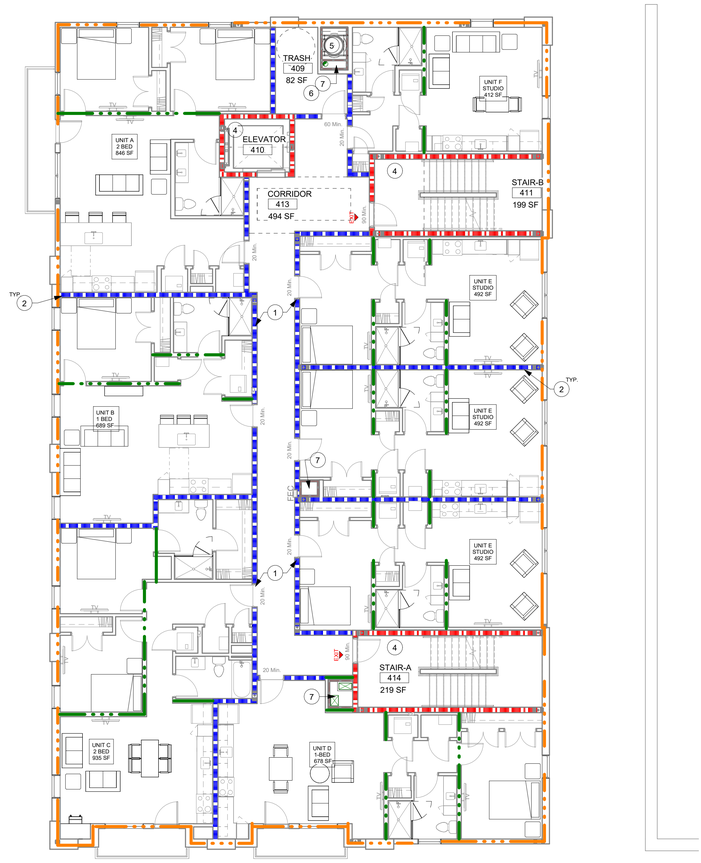
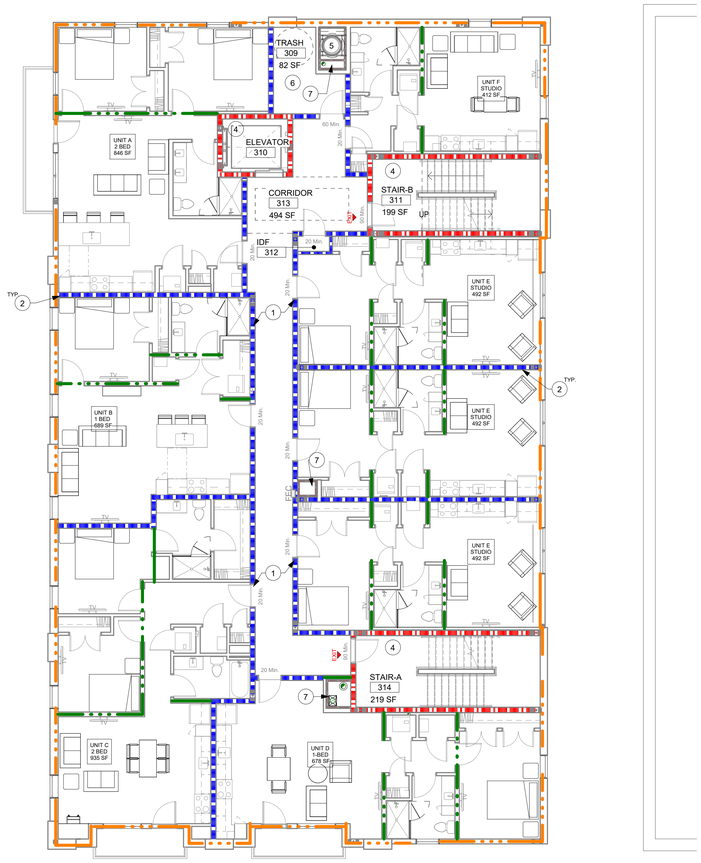
5	2-HR RATED TRASH CHUTE SHAFT PER IBC SECTION 713.13 (SEE SECTION DETAIL.)
6	1-HR RATED TRASH CHUTE ACCESS ROOM WITH 45 MIN. DOOR PER IBC SECTION 713.13.3
7	2-HR RATED MECHANICAL SHAFT PER IBC SECTION 713.4 (SEE HORIZONTAL ASSEMBLIES PLAN FOR SHAFT TERMINATION AT ROOF. AND SECTION DETAIL FOR TERMINATION AT LOWEST FLOOR)
8	2-HR RATED FIRE PUMP ROOM PER SECTION 913.2.1
9	NON SEPARATED MIXED OCCUPANCY (B/ R-2) PER IBC SECTION 508.3.1.
10	MAX OF 50% OF TOTAL EXIT CAPACITY MAY EXIT THROUGH A SPACE ON THE LEVEL OF EXIT DISCHARGE PER IBC SECTION 1027.1 EXP. #1
11	2-HR RATED EXIT PASSAGEWAY PER IBC SECTION 1023.
12	2-HR RATED DOOR REQUIRED BETWEEN STAIR AND EXIT PASSAGEWAY PER IBC SECTION 1022.3.1



FOURTH FLOOR - CODE REVIEW PLAN

1/8" = 1'-0"

NORTH



THIRD FLOOR - CODE REVIEW PLAN

1/8" = 1'-0"

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THIRD & FOURTH FLOOR CODE REVIEW PLAN & CODE REVIEW NOTES

ISSUE DATE: 09.13.2024
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G-111b

Dat. Time/Date: 9/10/2024, 2:48:10 PM
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CODE REVIEW - WALL AND SYMBOL LEGEND

Symbol	Description
	SMOKE PARTITION
	1 - HOUR FIRE PARTITION
	1 - HOUR SMOKE BARRIER
	2 - HOUR FIRE PARTITION
	2 -HR **FIRE RESITIVE RATED** EXTERIOR BEARING WALL PER IBC TABLE 601 (UL DESIGN # 349) SEE WALL SECTIONS AND UL ASSEMBLIES.
	1 -HR **FIRE RESITIVE RATED** INTERIOR BEARING WALL PER IBC TABLE 601 NO DOOR RATINGS REQUIERD PER SECTION 601
	TRAVEL DISTANCE TO EXIT (SEE EGRESS PATH SCHEDULE)
EXIT	EXIT
HORZ. EXIT	HORIZONTAL EXIT
/ FEC	FIRE EXTINGUISHER CABINET
DOOR RATING "XX"	FIRE RATED DOOR. SEE DOOR SCHEDULE

CODE REVIEW PLAN NOTES	
1	1-HR RATED CORRIDOR WITH 20 MIN. DOORS PER IBC SECTION 708.3/ TABLE 716.5
2	1-HR UNIT DEMISING WALL PER IBC SECTION 420.2/ 708.3 WITH NFPA 13 SPRINKLER SYSTEM
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10	MAX OF 50% OF TOTAL EXIT CAPACITY MAY EXIT THROUGH A SPACE ON THE LEVEL OF EXIT DISCHARGE PER IBC SECTION 1027.1 EXP. #1
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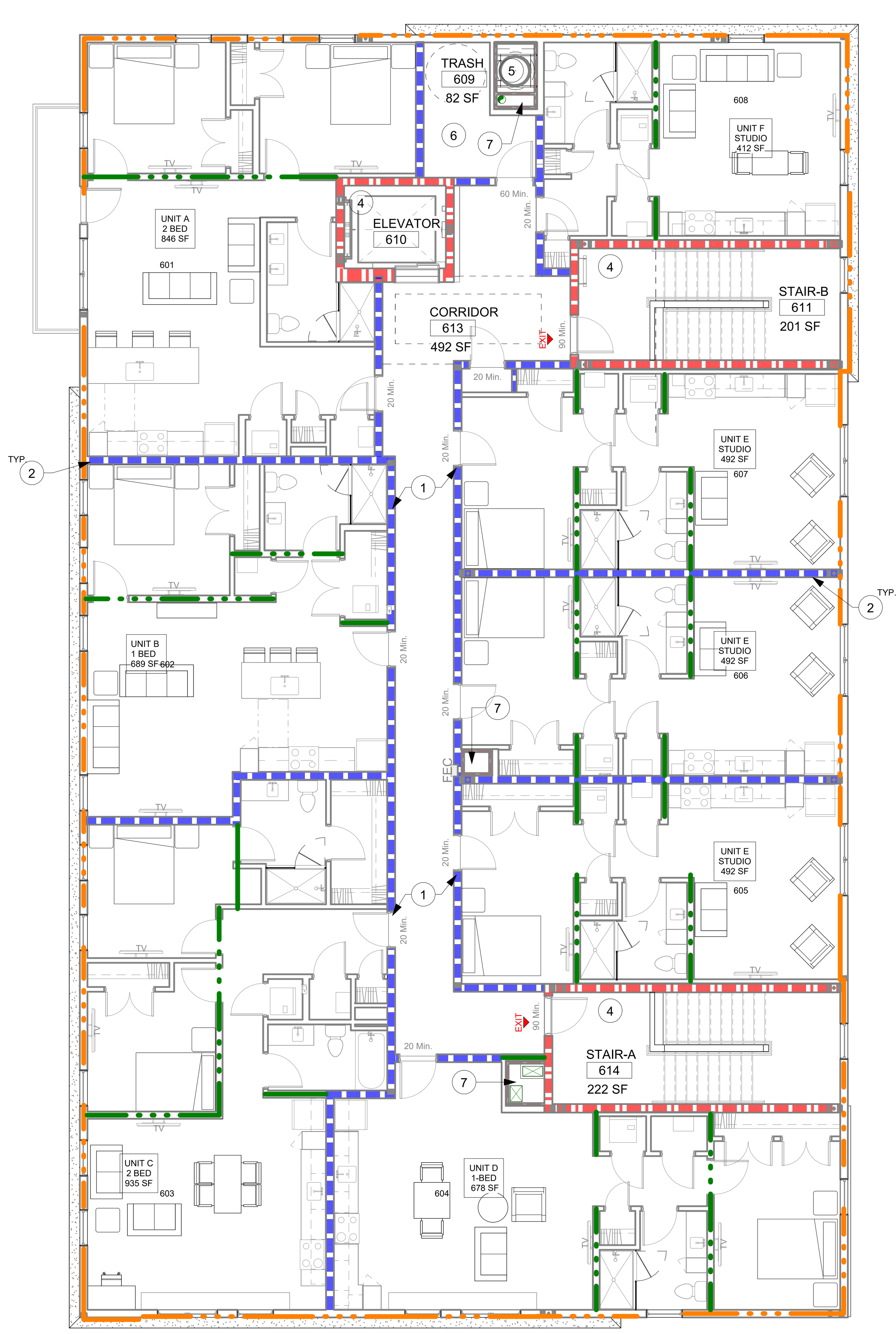
12	2-HR RATED DOOR REQUIRED BETWEEN STAIR AND EXIT PASSAGEWAY PER IBC SECTION 1022.3.1



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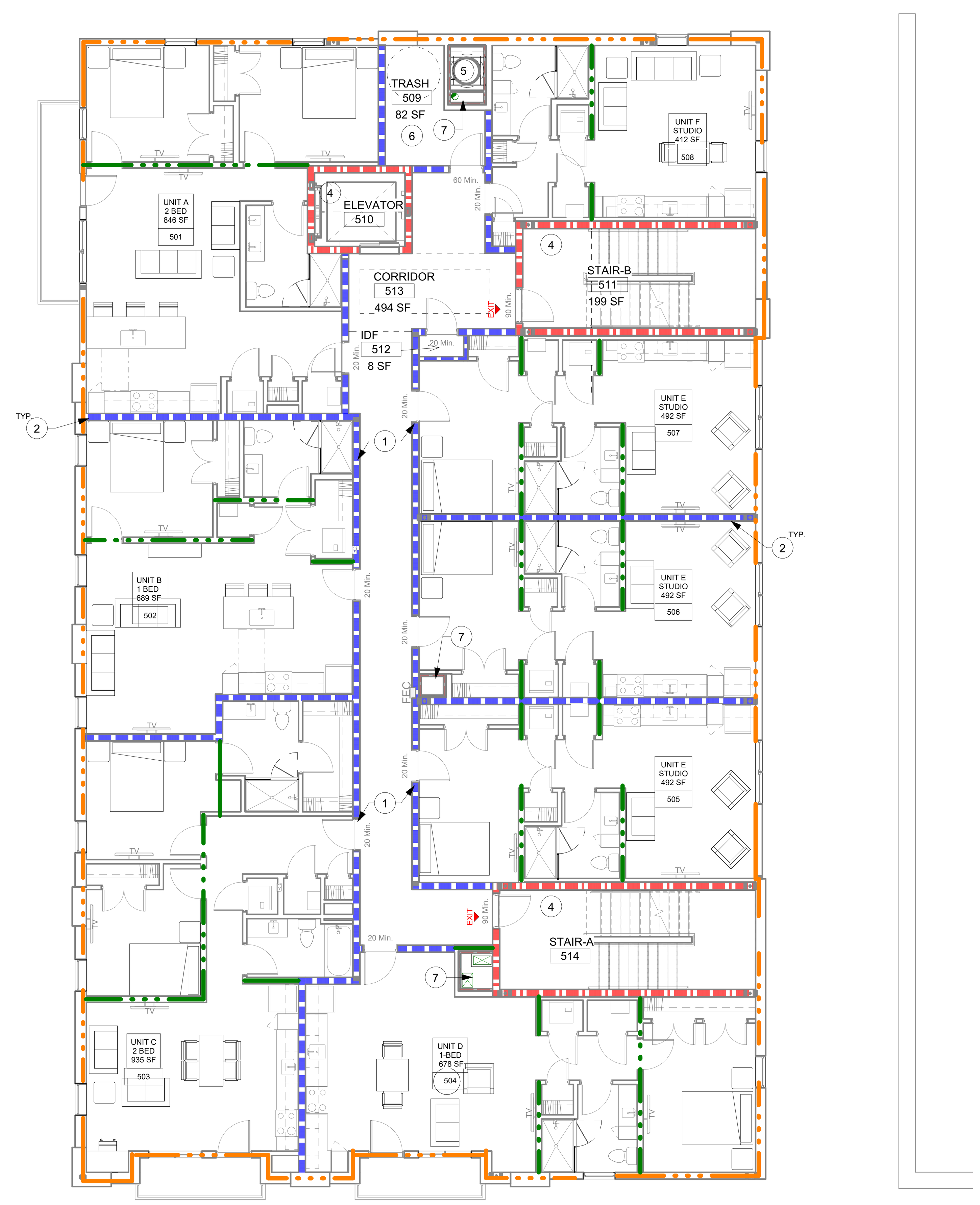
SIXTH FLOOR - CODE REVIEW PLAN

1/8" = 1'-0"



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FIFTH FLOOR - CODE REVIEW PLAN

1/8" = 1'-0"

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FIFTH & SIXTH FLOOR CODE REVIEW & OCCUPANT LOAD PLANS

ISSUE DATE: 09.13.2024
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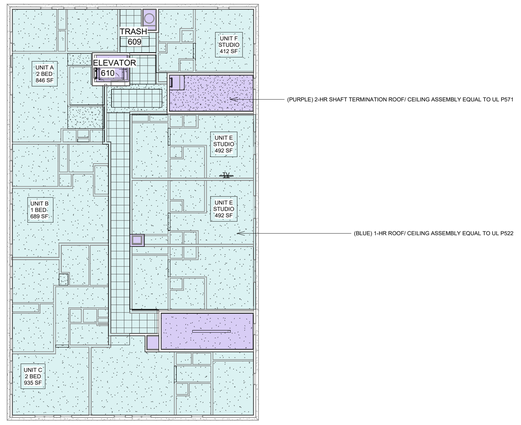

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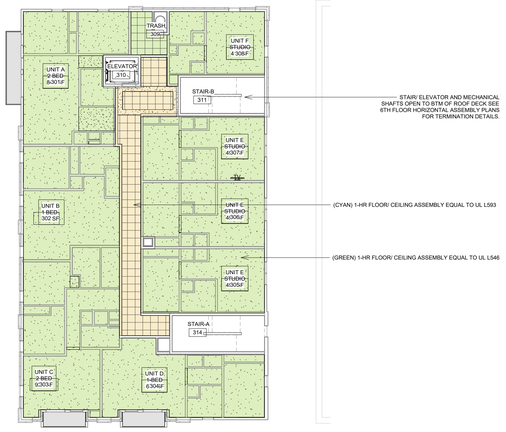
SIXTH FLOOR HORIZONTAL ASSEMBLY PLAN

1/16" = 1'-0"



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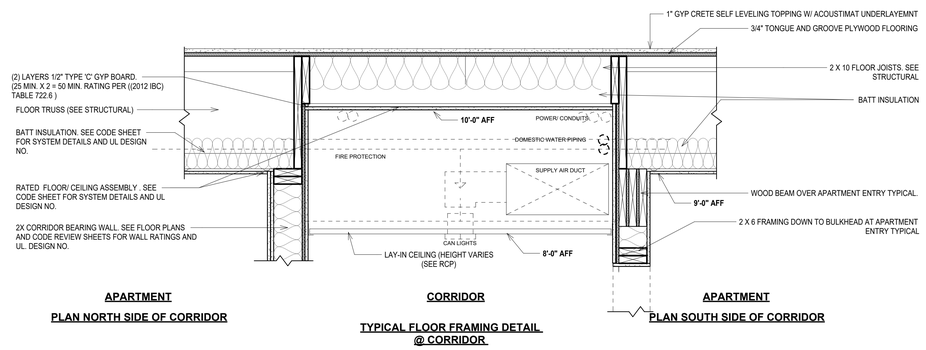
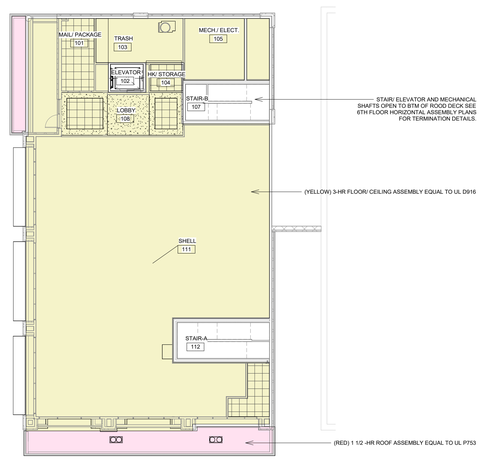
HORIZONTAL ASSEMBLY PLAN - FLOORS 2/ 3/ 4/ 5

1/16" = 1'-0"



3 CORRDIOR FRAMING DTL.

1" = 1'-0"



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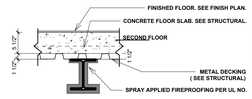
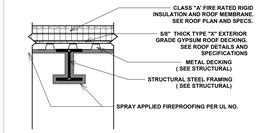
FIRST FLOOR HORIZONTAL ASSEMBLY PLAN

1/16" = 1'-0"

HORIZONTAL ASSEMBLIES LEGEND





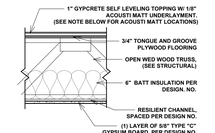
3-HR HORIZONTAL ASSEMBLY
TYPICAL CEILING/FLOOR ASSEMBLY:
SECOND FLOOR PODIUM CONSTRUCTION

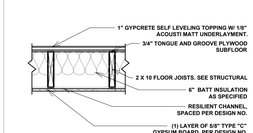
PER: UL# D916

STC- (54-58)

HORIZONTAL ASSEMBLY
1 1/2 -HR RATED / CEILING/ROOF ASSEMBLY

PER UL # P753





1-HR HORIZONTAL ASSEMBLY
TYPICAL CEILING/FLOOR ASSEMBLY (OPEN WEB TRUSS):

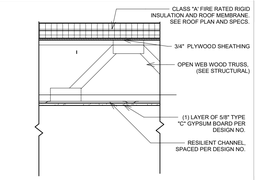
PER: UL L546

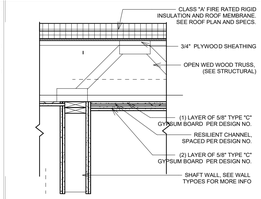
STC 58-60
ICC 50-52

** ACOUSTI MATT TO BE INSTALLED IN ALL FLOOR AREAS RECEIVING GYPCRETE OTHER THAN CLOSETS & LAUNDRY ROOMS

1-HR HORIZONTAL ASSEMBLY
TYPICAL CORRDIOR CEILING/FLOOR ASSEMBLY:

PER: UL L593





1-HR HORIZONTAL ASSEMBLY
CEILING/ ROOF (WOOD TRUSS):

PER UL #P522

2-HR HORIZONTAL ASSEMBLY
SHAFT CEILING ASSEMBLY:

PER UL #P571

NOTE:
PLANS ON THIS SHEET ARE INTENDED TO BE DIAGRAMMATIC IN NATURE . REPRESENTING REQUIREMENTS FOR HORIZONTAL ASSEMBLIES TO BE INSTALLED ON BOTTOM OF BUILDING STRUCTURE THOUGHT ALL BUILDING TYPES. IN AREAS WITH SECONDARY LAY-IN CEILINGS OR DRYWALL BULKHEADS AT LOWER ELEVATIONS ARE SCHEDULED THE HORIZONTAL ASSEMBLY(S) SHALL BE CONTINUOUS ABOVE THE SECONDARY CEILINGS SCHEDULED. SEE CEILING PLANS FOR MORE INFO.

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Certification: 09.13.2024 BID SET

Consultant Logo:

Key Plan:

THE LANDING 3.0

NEW CONSTRUCTION
555 S. HARRISON ST.
Fort Wayne, Indiana 46802

REVISION		
No.	Date	Revision

DRAWING CONTENTS:
HORIZONTAL ASSEMBLIES PLANS

ISSUE DATE: 09.13.2024
PROJECT NO. 23029

DRAWING NO.
G-120

Plot: Thursday, 9/12/2024 2:48:14 PM
Drawing Name: template.rvt

UL D916 SPECIFICATIONS

Design No. D916
April 25, 2002

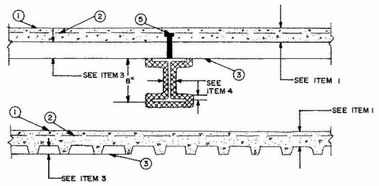
Restrained Assembly Ratings — 3/4, 1, 1-1/2, 2 or 3 Hr.

(See Items 1, 6, 7, 8 and 11)

Unrestrained Assembly Rating — 0 Hr. (See Items 3, 4 and 4A)

Unrestrained Beam Ratings — 1, 1-1/2, 2 and 3 Hr.

(See Items 4, 4A, 7 and 11)



Supports — 8x28 min size steel beams. Or steel joists or joist girders (not shown), composite or noncomposite. Welded or bolted to end supports. Designed per S.J.I. specifications for a max tensile stress of 30 ksi. May be either uncoated or provided with a shop coat of paint. For the 2 h or less Restrained or Unrestrained Beam Ratings, top and bottom chords shall each consist of two angles with a min total area of 0.96 and 0.77 sq in., respectively. Web members shall be either round bars or angles. Min area of the end diagonal web shall be 0.444 sq in. Min area of each of the first six interior diagonal webs shall be 0.406 sq in. All other interior webs shall have a min area of 0.196 sq in. For the 3 h Restrained or Unrestrained Beam Ratings, each of the top and bottom chords shall each consist of two angles with a min total area of 1.74 sq in. Web members shall be either round bars or angles. Min area of each of the first five end diagonal webs shall be 0.886 sq in. All other interior webs shall have a min area of 0.441 sq in. Bridging per S.J.I. specifications is required when noncomposite joists are used. For noncomposite joists, steel filler pieces of proper size, 1 to 2 in. long shall be welded to and between the top chord angles at midway between all top chord panel points.

1. **Normal Weight or Lightweight Concrete** — Normal weight concrete carbonate or siliceous aggregate, 3500 psi compressive strength, vibrated. Lightweight concrete, expanded shale, or slate aggregate by rotary-kiln method, or expanded clay aggregate by rotary-kiln or sintered-grate method, 3000 psi compressive strength, vibrated, 4 to 7 percent entrained air.

Restrained Assembly Rating Hr	Concrete (Type)	Concrete Unit Weight pcf	Concrete Thkns In.
1	Normal Weight	147-153	3-1/2
1-1/2	Normal Weight	147-153	4
2	Normal Weight	147-153	4-1/2
3	Normal Weight	147-153	5-1/4
3/4 or 1 (See Item 6)	Lightweight	107-113	2-1/2
1	Lightweight	107-120	2-5/8
1-1/2	Lightweight	107-113	3
2	Lightweight	107-113	3-1/4
2	Lightweight	107-116	3-1/4*
2	Lightweight	114-120	3-1/2
3	Lightweight	107-113	4-3/16
3	Lightweight	114-120	4-7/16

*For use with 2 or 3 in. steel floor and form units only.

2. **Welded Wire Fabric** — 6 x 6, 10 x 10 SWG.

3. **Steel Floor and Form Units*** — Composite 1-1/2, 2 or 3 in. deep galv units. Fluted units may be uncoated or phosphatized/painted. Min gauges are 22 MSG for fluted and 20/20 MSG for cellular units. The following combinations of units may be used:

(1) all 24 or 36 in. wide cellular.

(2) all fluted.

(3) one or two 3 in. deep, 12 in. wide, 18/18 MSG min cellular units, alternating with 3 in. deep fluted or other cellular.

(4) any blend of fluted and 24 or 36 in. wide cellular.

(5) 3 in. deep, 30 in. wide cellular with 8-1/8 in. wide valley along side joints may be used when 3/8 in. diam reinforcing bars are placed 1-1/2 in. to each side of side joints and 1 in. above bottom of unit.

CONSOLIDATED SYSTEMS INC — 24 or 36 in. wide Types CFD-2, CFD-3; 24, 30 or 36 in. wide Type CFD-1.5; 24 in. wide, Type NC; 24 in. wide Type Versa-Dek® S, LS, XLS.

Spacing of welds attaching units to supports shall be 12 in. OC for 24 and 36 in. wide units, four welds per sheet for 30 in. wide units. Unless noted otherwise, adjacent units button-punched or welded together 36 in. OC along side joints. For **3 Hr. Rating,** units with overlapping type side joints welded together 24 in. OC max.

When a superimposed load of 250 PSF is desired the spacing of welds or button-punches shall not exceed 24 in. OC along side joints.

The Unrestrained Assembly Rating is equal to the Unrestrained Beam Rating for a max of 3 Hr. and is limited to the following units and limitations:

(a) 1-1/2 in. deep, 24 in. wide, 22 MSG or thicker fluted with clear spans not more than 7 ft 8 in.

(b) 1-1/2 in. deep, 24 in. wide, 20 MSG or thicker fluted with clear spans not more than 8 ft 8 in.

(c) 1-1/2 in. deep, 24 in. wide, 16 MSG or thicker fluted and 18/18 MSG or thicker cellular with clear spans not more than 9 ft 11 in.

(d) 3 in. deep, 36 in. wide, 18 MSG or thicker fluted and 24 in. wide, 20/18 MSG or thicker cellular with clear spans not more than 13 ft 2 in.

4. **Spray-Applied Fire Resistive Materials*** — Applied by mixing with water and spraying in one or more coats to a final thickness as shown in the tables below, in the tables below to steel beam surfaces which must be clean and free of dirt, loose scale and oil. Min avg and min ind density of 15/14 pcf respectively. For method of density determination, refer to Design Information Section.

Restrained Assembly Rating Hr	Unrestrained Assembly Rating Hr	Unrestrained Beam Rating Hr	Spray Applied Fire Resistive Mtl Thkns on Beam In.
1	1	1	1/2
1-1/2	1	1	1/2
1-1/2	1-1/2	1-1/2	13/16
2	1	1	1/2
2	2	2	1-1/16
3	1-1/2	1-1/2	13/16
3	3	3	1-9/16

The thicknesses of Spray-Applied Fire Resistive Materials shown in the table below are applicable when the thickness applied to the beams' lower flange edges is reduced by 1/2 that shown in the table:

Restrained Assembly Rating Hr	Unrestrained Assembly Rating Hr	Unrestrained Beam Rating Hr	Spray Applied Fire Resistive Mtl Thkns on Beam In.
1	1	1	9/16
1-1/2	1	1	9/16
1-1/2	1-1/2	1-1/2	7/8
2	1	1	9/16
2	2	2	1-3/16
3	1-1/2	1-1/2	7/8
3	3	3	1-3/4

The thicknesses of Spray-Applied Fire Resistive Materials shown in the table below are applicable when the thickness applied to the beams' lower flange edges is reduced by 1/2 that shown in the table and the beams are supporting all fluted floor or form units w/lightweight concrete only:

Restrained Assembly Rating Hr	Unrestrained Assembly Rating Hr	Unrestrained Beam Rating Hr	Spray Applied Fire Resistive Mtl Thkns on Beam In.
1	1	1	7/16+
1-1/2	1	1	7/16+
1-1/2	1-1/2	1-1/2	3/4
2	1	1	7/16+
2	2	2	1
3	1-1/2	1-1/2	3/4
3	3	3	1-9/16

+Thickness applied to beams' lower flange edge to be 1/4 in. min.

The thickness of material required on the steel joist for the various ratings are shown in the following table:

Restrained or Unrestrained Assembly Rating Hr	Unrestrained Beam Rating Hr	Spray Applied Fire Resistive Mtl Thkns on Joist & Bridging In.
1	1	1-1/8
1-1/2	1-1/2	1-3/4
2	2	2-1/4
3	3	2-7/8

ARABIAN VERMICULITE INDUSTRIES — Type MK-5.

GRACE CANADA INC — Types MK-4, MK-5.

W R GRACE & CO - CONN CONSTRUCTION PRODUCTS DIV — Types MK-4, MK-5, MK-6/HY, MK-6s, RG, Monokote Acoustic 1.

GRACE KOREA INC — Types MK-6/CBF, MK-6/ED, MK-6/HY, MK-6s, Monokote Acoustic 1.

PYROK INC — Type LD.

SOUTHWEST VERMICULITE CO — Types 4, 5, 5EF, 5GP, 5MD, 8EF, 8GP, 8MD, 9EF, 9GP, 9MD.

VERMICULITE PRODUCTS INC — Types MK-4, MK-5, VP4, VP5.

4A. **Alternate Spray-Applied Fire Resistive Materials*** — Applied by mixing with water and spraying in one or more coats to a final thickness as shown in the tables below to steel beam surfaces which must be clean and free of dirt, loose scale and oil. When fluted steel deck is used the area between the steel deck and the beams top flange shall be sprayed min avg and min ind density of 19/18 pcf, respectively for Types 7GP, 105. Min avg and min ind density of 22/19 pcf, respectively for Types Z-106, Z-106/G, Z-106/HY. For method of density determination, refer to Design Information Section.

Restrained Assembly Rating Hr	Unrestrained Assembly Rating Hr	Unrestrained Beam Rating Hr	Spray Applied Fire Resistive Mtl Thkns on Beam In.
1	1	1	1/2
1-1/2	1	1	1/2
1-1/2	1-1/2	1-1/2	13/16
2	1	1	1/2
2	2	2	1-1/16
3	1-1/2	1-1/2	13/16
3	3	3	1-9/16

The thicknesses of Spray-Applied Fire Resistive Materials shown in the table below are applicable when the beams are supporting all fluted floor or form units w/lightweight concrete only:

Restrained Assembly Rating Hr	Unrestrained Assembly Rating Hr	Unrestrained Beam Rating Hr	Spray Applied Fire Resistive Mtl Thkns on Beam In.
1	1	1	7/16
1-1/2	1	1	7/16
1-1/2	1-1/2	1-1/2	3/4
2	1	1	7/16
2	2	2	1
3	1-1/2	1-1/2	3/4
3	3	3	1-5/16

+Thickness applied to beams lower flange edge to be 1/4 in. min.

The thickness of material required on the steel joist for the various Ratings are shown in the following table:

Restrained or Unrestrained Assembly Rating Hr	Unrestrained Beam Rating Hr	Type of Concrete Slab	Spray Applied Fire Resistive Mtl Thkns In. Joist & Bridging
1	1	NW or LW	1-1/8
1-1/2	1-1/2	NW or LW	1-3/4
2	2	NW or LW	2-1/4
3	3	NW or LW	2-7/8

W R GRACE & CO - CONN CONSTRUCTION PRODUCTS DIV — Types Z- 105, Z-106, Z-106/G, Z-106/HY, Monokote Acoustic 5.

GRACE KOREA INC — Types Z-106, Z-106/G, Z-106/HY, Monokote Acoustic 5.

SOUTHWEST VERMICULITE CO — Type 7GP.

4B. **Alternate Spray-Applied Fire Resistive Materials** — Applied by mixing with water and spraying in one or more coats to a final thickness as shown in the tables below to steel beam surfaces which must be clean and free of dirt, loose scale and oil. The thicknesses shown in the table below are applicable to beams supporting all fluted floor or form units. Min avg and min ind density of 40/36 pcf, respectively. For density determination refer to Design Information Section.

Unrestrained Beam Rating Hr	Restrained Assembly Rating Hr	Concrete Type	Spray Applied Fire Resistive Mtl Thkns on Beam In.
1	1, 1-1/2, 2	LW	9/16
1-1/2	1, 1-1/2, 2, 3	LW	7/8
1	1, 1-1/2, 2	LW	3/4
1-1/2	1, 1-1/2, 2, 3	LW	1

W R GRACE & CO - CONN CONSTRUCTION PRODUCTS DIV — Type Z-146 investigated for exterior use

GRACE KOREA INC — Type Z-146 investigated for exterior use

5. **Shear Connector Studs — Optional** — Studs 3/4 in. diam by 3 in. long, for 1-1/2 in. deep form units to 5-1/4 in. long for 3 in. deep form units, headed type or equivalent per AISC specifications. Welded to the top flange of the beam through the steel form units.

6. **Electrical Inserts** — (Not shown) Classified as **"Outlet Boxes and Fittings Classified for Fire Resistance."**

H H ROBERTSON — Preset Inserts

For use with 2-1/2 in. lightweight concrete topping over QL-WKX steel floor units. Installed over factory-punched holes in floor units per accompanying installation instructions.

Spacing shall not be more than one insert in each 14 sq ft. of floor area with spacing along floor units not less than 48 in. OC. The holes cut in insert cover for passage of wires shall be no more than 1/8 in. larger diam. than wire. Restrained Assembly Rating is 3/4 hr with Tapmate II-FS-1 and 1 hr with Tapmate II-FS-2 inserts.

H H ROBERTSON — Tapmate II-FS-1, II-FS-2; Series KEB.

(2) **Walker Systems Inc.** — After set Inserts.

Single-service after set inserts installed per accompanying installation instructions in 2-1/2 in. diam hole core-drilled through min 3-1/4 in. thick concrete topping to top of cell of any min 3 in. deep cellular steel floor unit specified under Item 3. Spacing shall be no more than one insert in each 10 sq ft of floor area in each span with a min center to center spacing of 16 in. If the high potential and low potential raceways of the cellular steel floor unit are separated by a valley filled with concrete, the center to center spacing of the high potential and low potential single-service after set inserts may be reduced to a min of 7-1/2 in. Restrained Assembly Rating is 2 hr or less with internally protected type 436 after set insert with Type M4-, M6- or M8- Series single-service activation fitting.

WALKER SYSTEMS INC — Internally protected Type 436 after set insert with Type M4-, M6- or M8- Series single-service activation fitting.

7. **Mineral and Fiber Boards*** — (Optional, not shown). Applied over concrete floor with no restriction on board thickness. When mineral and fiber boards are used, the unrestrained beam rating shall be increased by a minimum of 1/2 hr.

See Mineral and Fiber Board (CERZ) category for names of manufacturers.

8. **Roof Covering Materials*** — (Optional, not shown)Consisting of materials compatible with insulations described herein which provide Class A, B or C coverings. See Built-Up Roof Covering Materials in Building Materials Directory.

9. **Insulating Concrete** — (not shown) Optional. Various types of insulating concrete prepared and applied in the thickness indicated:

A. **Vermiculite Concrete** — (not shown) Optional.

1. Blend 6 to 8 cu. ft. of Vermiculite Aggregate* to 94 lb. Portland Cement and air entraining agent. Min thickness of 2 in. as measured to the top surface of the structural concrete or foamed plastic (Item 10) when it is used.

ELASTIZELL CORP OF AMERICA

SIPLAST INC

VERMICULITE PRODUCTS INC

2. Blend 3.5 cu. ft. of Type NVC Concrete Aggregate* or Type NVS Vermiculite Aggregate* coat, 1/8 in. thickness beneath foamed plastic (Item 10) when used, 1 in. min topping thickness.

SIPLAST INC

VERMICULITE PRODUCTS INC

Vermiculite concrete may be covered with Roof Covering Materials (Item 8).

B. **Cellular Concrete — Roof Topping Mixture*** — concentrate mixed with water and Portland cement per manufacturers specifications. Cast dry density and 28— day min. compressive strength of 190 psi as determined with ASTM C495— 66.

CELCORE INC — Cast dry density of 31 (+ or -) 3.0 pcf.

CELLUFOAM CONCRETE SYSTEMS, DIV OF CELLUFOAM CONCRETE OF — Cast dry density of 30 (+ or - 3.0) pcf.

CELLULAR CONCRETE L L C — Cast dry density of 37 (+ or -) 3.0 pcf.

ELASTIZELL CORP OF AMERICA — Type II. Mix #1 of cast dry density 39 (+ or -) 3.0 pcf, Mix #2 of cast dry density 40 (+ or -) 3.0 pcf, Mix #3 of cast dry density 47 (+ or -) 3.0 pcf.

C. **Cellular Concrete-Roof Topping Mixture*** — Concentrate mixed with water and Portland cement per manufacturers specifications. 28-day min. compressive strength of 190 psi as determined with ASTM C495-66.

LITE-CRETE INC — Cast dry density of 29 (+ or -) 3.0 pcf.

SIPLAST INC — Mix No. 1 or 2. Cast dry density of 32+3 (Mix No. 1) or 36+3 (Mix No. 2) pcf.

D. **Perlite Concrete** — 6 cu ft. of Perlite Aggregate* to 94 lb of Portland Cement and 1-1/2 pt air entraining agent. Min. thickness 2 in. as measured to the top surface of structural concrete or foamed plastic (Item 10A) when it is used.

See Perlite Aggregate (CFFX) in Fire Resistance Directory for names of manufacturers.

E. **Cellular Concrete — Roof Topping Mixture*** — Foam Concentrate mixed with water, Portland Cement and UL Classified Vermiculite Aggregate per manufacturer's application instructions. Cast dry density of 33 (+ or -) 3.0 pcf and 28-day compressive strength of min 250 psi as determined in accordance with ASTM C495-86.

CELLULAR CONCRETE L L C — Mix No. 3.

SIPLAST INC — Mix No. 3.

F. **Floor Topping Mixture*** — (Optional, not shown)) — Approx 4.5 gal of water to 41 lbs of NVS Premix floor topping mixture. Slurry coat 1/8 in. thickness beneath foamed plastic (Item 10) when used , 1 in. min topping thickness.

SIPLAST INC

Floor Topping Mixture may be covered with Built-Up or Single Membrane Roof Covering.

10. **Foamed Plastic*** — (optional — Not Shown) For use only with vermiculite (Item 9A) or cellular (Item 9C) concretes — Rigid polystyrene foamed plastic insulation having slots and/or holes sandwiched between vermiculite concrete slurry which is applied to the normal or lightweight concrete surface and vermiculite concrete topping (Item 9A). Max. Thickness to be 8 in.

SIPLAST INC

VERMICULITE PRODUCTS INC

10A. **Foamed Plastic*** — For use only with cellular concrete. Nominal 24 by 48 by max. 8 in. thick polystyrene foamed plastic insulation boards having a density of 1.0 + 0.1 pcf encapsulated within cellular concrete topping (Item 9B). Each insulation board shall contain six nominal 3 in. diameter holes oriented in two rows of three holes each with the holes spaced 12 in. OC, transversely and 16 in. OC longitudinally.

See Foamed Plastic* (BRYX) category in Building Materials Directory or Foamed Plastic* (CCVW) category in Fire Resistance Directory for list of manufacturers.

11. **Foamed Plastic*** — (Optional, not shown). Polyisocyanurate roof insulation, applied over concrete floor with no restriction on insulation thickness. When polyisocyanurate insulation is used, the unrestrained beam rating shall be increased by a minimum of 1/2 hr.

See Foamed Plastic (CCVW) category for list of manufacturers.

*Bearing the UL Classification Mark

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Consultant Logo:

Key Plan:

THE LANDING 3.0

NEW CONSTRUCTION
555 S. HARRISON ST.
Fort Wayne, Indiana 46802

REVISION

No.	Date	Revision

DRAWING CONTENTS:
UL ASSEMBLIES (D916)

ISSUE DATE: 09.13.2024
PROJECT NO.: 23029
DRAWING NO.: G-121a

UL P573 SPECIFICATIONS (PG. 1)

UL Product iQ®

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States
BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

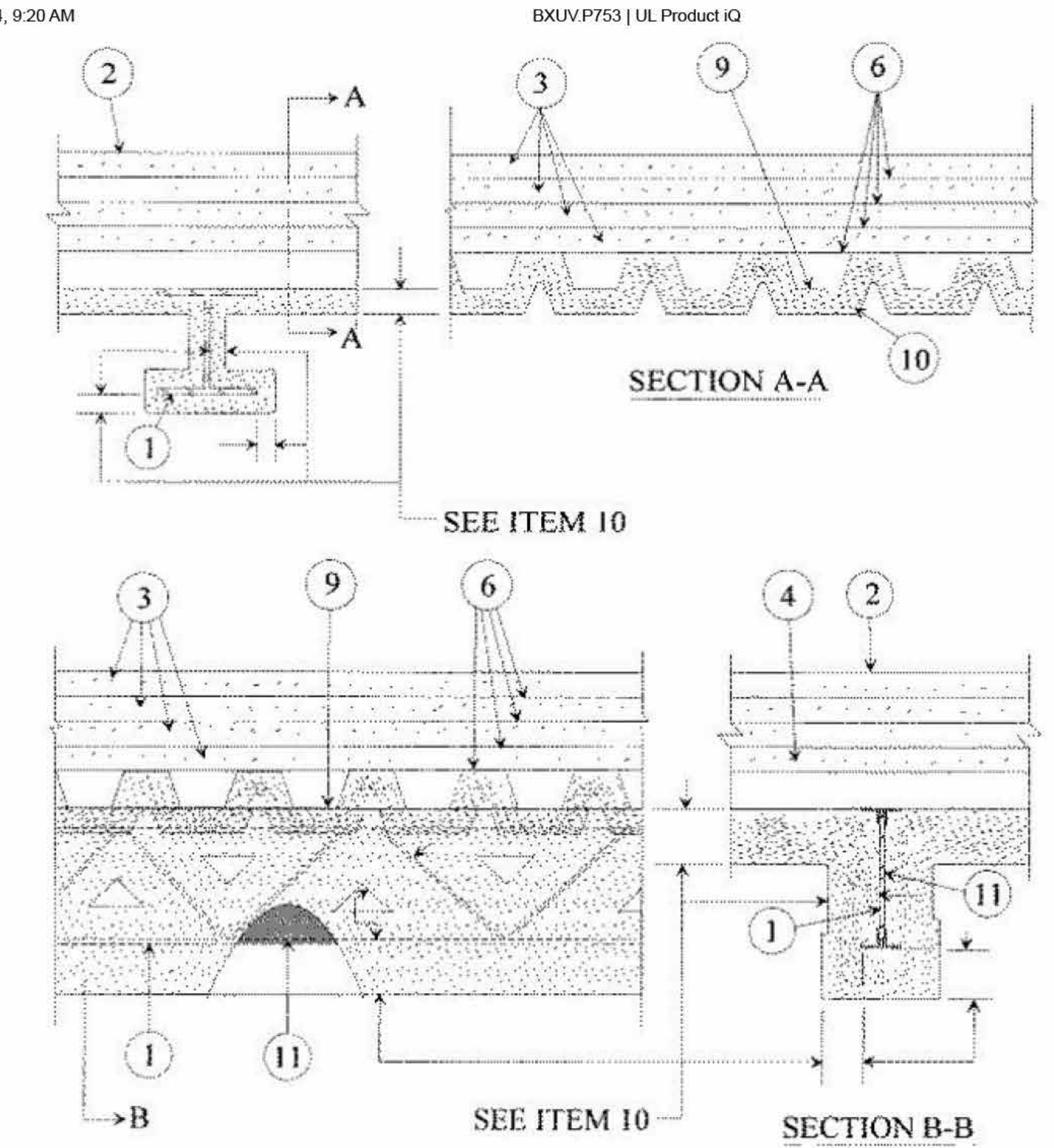
See General Information for Fire-resistance Ratings - ANSI/UL 263 Certified for United States
Design Criteria and Allowable Variances

See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada
Design Criteria and Allowable Variances

Design No. P753

May 1, 2024

Restrained Assembly Ratings — 1, 1-1/2, 2 or 3 Hr (See Item 10)
Unrestrained Assembly Ratings — 3/4, 1, 1-1/2, 2 or 3 Hr (See Item 10)
Unrestrained Beam Ratings — 1, 1-1/2, 2 or 3 Hr (See Item 10)
Restricted Load Condition — See Items 1 and 10C
Loading Determined by Allowable Stress Design Method or Load and Resistance Factor Design Method published by the American Institute of Steel Construction, or in accordance with the relevant Limit State Design provisions of Part 4 of the National Building Code of Canada
*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**



1. **Beam —** Min W8x28 or Steel Joist — Min 10K1 welded or bolted to end supports. Designed per S.J.I specifications for a yield strength of 50,000 psi. Top chords shall consist of two angles measuring 1-1/2 by 1-1/2 by 0.169 in. thick, min. Bottom chords shall consist of two angles measuring 1 by 1 by 0.109 in. thick, min. The first diagonal web member at each end shall consist of a min 0.625 in. dia. round bar. All remaining web members shall consist of 0.50 in. dia. round bars, min. Bridging per S.J.I specifications.

2. **Roof Covering* —** Consisting of hot mopped or cold application bituminous materials compatible with the insulation(s) described herein which provide Class A, B or C coverings. See Roofing Materials and Systems Directory — Roof Covering Materials (TEVT).

2A. **In lieu of Item 2, roof covering consisting of single-ply Roofing Membrane* —** that is either ballasted, adhered or mechanically attached as permitted under the respective manufacturer's Classification. See Fire Resistance Directory — Roof Membrane (CHCI).

2B. **Metal Roof Deck Panels* —** (Not shown) — In addition to or in lieu of Item 2 or 2A, the roof covering may consist of a mechanically fastened metal roof deck panel assembly. See Fire Resistance Directory — Metal Roof Deck Panels (CETW).

3. **Roof Insulation — Foamed Plastic —** Polyisocyanurate foamed plastic insulation boards nom 48 by 48 or 96 in., to be applied in one or more layers. Boards to be installed with end joints staggered a min of 6 in. Min thickness shall be selected from the Table below. No limit on max overall thickness.

Restrained or Unrestrained Assembly Rating Hr	Min Insulation Thkns In. With Gypsum Wallboard	Without Gypsum Wallboard
1	1	2
1-1/2	1-1/2	3
2	2	3
3	2	3

ATLAS ROOFING CORP — Type ACFoam II, Tapered ACFoam II, ACFoam II NH, Tapered ACFoam II NH, ACFoam III, ACFoam III NH, Tapered ACFoam III NH, ACFoam IV, ACFoam Supreme, ACFoam Supreme NH, AC Foam Recover Board, ACFoam Recover Board NH

MULE-HIDE PRODUCTS CO INC — POLY ISO 2

CARLISLE SYNTEC SYSTEMS, A DIVISION OF CARLISLE CONSTRUCTION MATERIALS, LLC — Types HP, HP-H, HP-N, HP-W, SecurShield CD, InsulBase NH, SecurShield NH, SecurShield HD Composite NH, Polyiso HP-F NH, InsulBase RL, SecurShield RL, Polyiso HP-F, SecurShield HD Composite RL.

DOW ROOFING SYSTEMS L L C — "Dow Termico Polyisocyanurate Insulation", "Dow Termico ISO 3000 Insulation", "Dow Termico ISO HP-FR".

FIRESTONE BUILDING PRODUCTS CO L L C — "ISO 95+ GL", "ISO 95+ FK", "ISO 95+ CAN", "ISO 95+ GL NH", "ISOGARD HD Composite Board" or "RESISTA", "ISOGARD GL", "ISOGARD CG".

GAF — EnergyGuard™ RA

HUNTER PANELS, A DIVISION OF CARLISLE CONSTRUCTION MATERIALS, LLC — H Shield, H-Shield-F, H-Shield-CG, H-Shield-C, H-Shield Premier, H-Shield HD Composite, H-Shield HD Composite CG, H-Shield RL, H-Shield CG RL, H-Shield HD Composite CG RL, H Shield NH, H-Shield-F NH, H-Shield-CG NH, H-Shield-C NH, H-Shield Premier NH, H-Shield HD Composite CG NH

MULE-HIDE PRODUCTS CO INC — Poly ISO 1, Tapered Poly ISO 1, Poly ISO 1-DWD, Tapered Poly ISO 1-DWD, Poly ISO 1-HD, Poly ISO 1-HD90, Poly ISO 1-HD-Composite

JOHNS MANVILLE — ENRGY 3 25 psi, ENRGY 3, Tapered ENRGY 3, Tapered ENRGY 3 25 psi, ENRGY 3 AGF, Tapered ENRGY 3 AGF, ENRGY 3 25 psi AGF, Tapered ENRGY 3 25 psi AGF, ENRGY 3 CGF, Tapered ENRGY 3 CGF, ENRGY 3 25 psi CGF, Tapered ENRGY 3 25 psi CGF, ISO-3, Tapered ISO-3, ValuTherm, Tapered ValuTherm, ValuTherm 25 psi, Tapered ValuTherm 25 psi, ValuTherm AGF, Tapered ValuTherm AGF, ValuTherm 25 psi AGF, Tapered ValuTherm 25 psi AGF, ValuTherm CGF, Tapered ValuTherm CGF, ValuTherm 25 psi CGF, Tapered ValuTherm 25 psi CGF.

MARTIN FIREPROOFING CORP — "Perform-A-Deck I"

POLYGLASS USA INC — Polytherm, Polytherm CG, Polytherm HD Composite CG

RMAX, A BUSINESS UNIT OF SIKA CORPORATION — Type Multi-Max-3, Multi-Max FA-3, Ultra-Max, Ultra-Max Plus, Tapered Ultra-Max Plus, Tapered Thermaroof-3, Tapered Thermaroof FA-3, Tapered Ultra-Max.

SIKA SARNAFIL INC — Sarnatherm-R Insulation, Sarnatherm-R CG Insulation, Sarnatherm-R Tapered Insulation, Sarnatherm-R CG Tapered Insulation.

SOPREMA INC — Sopra-ISO s, Sopra-ISO s Tapered, Sopra-ISO+ s, Sopra-ISO+ s Tapered, Sopra-ISO H+ s, Sopra-ISO H+ s Tapered.

VERSICO INC — MMP-H, VersiCore, WeatherBond XP Polyiso, Polyiso F, WeatherBond XP-HF, SecurShield, WeatherBond XFP Polyiso, SecurShield CD, WeatherBond XFP CD, SecurShield HD Composite, WeatherBond XFP HD Composite, VersiCore NH, WeatherBond XP NH Polyiso, SecurShield NH, WeatherBond XFP NH Polyiso, VersiCore RL, SecurShield RL, Polyiso F NH, WeatherBond XP-F NH, SecurShield HD Composite RL

3A. **Building Units* —** Polyisocyanurate foamed plastic insulation boards, nom 48 by 48 or 96 in., faced on the top surface with oriented strand board or plywood. Min thickness of the polyisocyanurate core is per Item 3. No limit on max overall thickness. Boards to be installed with end joints staggered a min of 6 in. in adjacent rows. Adhesive (Item 6) may be applied between the building units and the vapor retarder (or gypsum wallboard if vapor retarder is not used).
ATLAS ROOFING CORP — ACFoam Nail Base Insulation, ACFoam Nail Base Insulation NH, Vented R, ACFoam CrossVent, ACFoam CrossVent NH, ACFoam III Nail Base Insulation, ACFoam III Nail Base Insulation NH, ACFoam III CrossVent, ACFoam III CrossVent NH

FIRESTONE BUILDING PRODUCTS CO L L C — Hailgard, "ISOGARD HG".

SOPREMA INC — Sopra-ISO CV s.

3B. **Roof Insulation-Mineral and Fiber Boards* —** (Not Shown) — Optional, Applied in one or more layers over the Foamed Plastic (Item 3) to be applied with adhesive (Item 6), asphalt or coal tar pitch (Item 7) or mechanically fastened (Item 8).
JOHNS MANVILLE - Fesco, Retro-fit, RetroPlus, DuraBoard (1/2"), DuraBoard (3/4"), DuraBoard (1"), Fesco HD

ROCKWOOL — MonoBoard™, MonoBoard™ Plus, TopRock® DD, or TopRock® DD Plus.

SOPREMA INC — SopraRock® DD and SopraRock® DD Plus.

3C. **Building Units* —** As an alternate to Item 3, polyisocyanurate foamed plastic insulation boards, nom 48 by 48 or 96 in., faced on the top surface with oriented strand board. Min thickness of the polyisocyanurate core is shall be selected from Table in Item 3. No limit on max overall thickness. Boards to be installed with end joints staggered a min of 6 in. in adjacent rows.
HUNTER PANELS, A DIVISION OF CARLISLE CONSTRUCTION MATERIALS, LLC — H-Shield-NB, H-Shield-NB NH

JOHNS MANVILLE — Nailboard.

3D. **Building Units* —** As an alternate to Item 3, polyisocyanurate foamed plastic insulation boards faced on the underside (or both sides) with mineral fiber board. Min thickness of the polyisocyanurate core is 1.3 in. for the 1 hr rating without gypsum wallboard (Item 4) and for the 1-1/2 and 2 hr ratings with wallboard and 2.6 in. for the 1-1/2 hr ratings without gypsum wallboard. No limit on max overall thickness. Boards to be installed with end joints staggered a min of 6 in. adjacent rows. Adhesive (Item 6) may be applied between the building units and the vapor retarder (or gypsum wallboard if vapor retarder is not used).
FIRESTONE BUILDING PRODUCTS CO L L C — "ISO 95+ Composite"

JOHNS MANVILLE — Fesco-Foam.

3E. **Building Units* —** As an alternate to Item 3, polyisocyanurate foamed plastic insulation boards faced on the underside with wood fiber board. Min thickness of the polyisocyanurate core is 1.3 in. for the 1 hr rating without gypsum wallboard (Item 4) and for the 1-1/2 and 2 hr ratings with wallboard and 2.6 in. for the 1-1/2 hr ratings without gypsum wallboard. No limit on max overall thickness. Boards to be installed with end joints staggered a min of 6 in. in adjacent rows.
FIRESTONE BUILDING PRODUCTS CO L L C — "ISO 95+ Composite"

3F. **Roof Insulation — Mineral and Fiber Boards* —** As an alternate to Item 3 , to be applied in one or more layers with or without adhesive applied between vapor barrier and roof deck units, vapor barrier and board and each layer of board. When more than one layer is required, each layer of board to be offset in both directions from layer below a min of 6 in. in order to lap all joints. Min thickness is 2 in. when Item 2A or 2B is used. Min thickness is 1 in. otherwise.

GAF — GAFTEMP Permalite.

JOHNS MANVILLE – Types Fesco, Retro-Fit, RetroPlus

3G. **Roof Insulation - Foamed Plastic* —** (Not Shown) As an alternate to Item 3, polystyrene foamed plastic insulation boards, applied in one or more layers over gypsum wallboard. Min. thickness is 1.0 in. with no max overall thickness max density 2.5 pcf. When applied in more than one layer, each layer to be offset in both directions from layer below a min. of 6 in. in order to lap all joints. Boards secured to gypsum wallboard (Item 4) with asphalt glaze coat or adhesive (Item 6). Adhesive and/or asphalt glaze coat may be omitted when Item 2A is used. See Foamed Plastic (BRYX) category in the Building Materials Directory or Foamed Plastic (CCVW) category in the Fire Resistance Directory of for names of manufacturers.

3H. **Foamed Plastic* —** Optional - (Not shown) - Used in addition to the foam insulation required to achieve fire rating:

3Ha. **Foamed Plastic* —** Optional (Not Shown) A minimum of 1/4 in. thick - Placed over minimum 1-1/2 in. thick polyisocyanurate Foamed Plastic (Item 3) to be applied with adhesive (Item 6), asphalt or coat tar pitch (Item 7) or mechanically fastened (Item 8). Boards to be installed with end joints to be offset in both directions from layer below a min of 6 in. in order to lap all joints.
JOHNS MANVILLE — Invinsa

3Hb. **Foamed Plastic* —** Optional - (Not Shown) - Maximum 1 in. thick polyisocyanurate foamed plastic insulation boards, nom 48 by 48 or 96 in. Boards may be applied as the top layer in addition to the specified minimum thickness of any roofing system described herein, as long as the roofing system states that there is no limit on maximum thickness. Joints offset in both directions from layer below.
FIRESTONE BUILDING PRODUCTS CO L L C — "ISOGARD HD"

3Hc. **Foamed Plastic* —** Optional — (Not Shown) — Maximum 5/8 inch thick polyisocyanurate foamed plastic insulation boards, nom 48 by 48 or 96 in. Boards may be applied as the top layer in addition to the specified minimum thickness of any roofing system described herein, as long as the roofing system states that there is no limit on maximum thickness. Joints offset in both directions from layer below.
RMAX, A BUSINESS UNIT OF SIKA CORPORATION — "Ultra-Max HD"

SIKA SARNAFIL INC — "Sarnatherm Roof Board-R"

3Hd. **Foamed Plastic* —** Optional — (Not Shown) — Maximum 1/2 inch thick polyisocyanurate foamed plastic insulation boards, nom 48 by 48 or 96 in. Boards may be applied as the top layer in addition to the specified minimum thickness of any roofing system described herein, as long as the roofing system states that there is no limit on maximum thickness. Joints offset in both directions from layer below.
CARLISLE SYNTEC SYSTEMS, A DIVISION OF CARLISLE CONSTRUCTION MATERIALS, LLC — SecurShield HD, SecurShield HD Plus, SecurShield HD NH, SecurShield HD Plus NH, SecurShield HD RL

HUNTER PANELS, A DIVISION OF CARLISLE CONSTRUCTION MATERIALS, LLC — H-Shield HD, H-Shield HD90, H-Shield HD RL, H-Shield HD NH, H-Shield HD90 NH

POLYGLASS USA INC— Polytherm HD

VERSICO INC — SecurShield HD, WeatherBond XFP HD, SecurShield HD Plus, WeatherBond XFP HD Plus, SecurShield HD NH, WeatherBond XFP HD NH, SecurShield HD Plus NH, WeatherBond XFP HD Plus NH, SecurShield HD RL

3He. **Foamed Plastic* —** Optional — (Not Shown) — Maximum 1 inch thick polyisocyanurate foamed plastic insulation boards, nom 48 by 48 or 96 in. Boards may be applied as the top layer in addition to the specified minimum thickness of any roofing system described herein, as long as the roofing system states that there is no limit on maximum thickness. Joints offset in both directions from layer below.
ATLAS ROOFING CORP — ACFoam HD CoverBoard and ACFoam CoverBoard FR

3Hf. **Foamed Plastic* —** (Optional — Not Shown) — Maximum 1 in. thick polyisocyanurate foamed plastic insulation boards, nom 48 by 48 or 96 in. Boards may be applied as the top layer in addition to the specified minimum thickness of any roofing system described herein, as long as the roofing system states that there is no limit on maximum thickness. Joints offset in both directions from layer below.

JOHNS MANVILLE – Types ProtectoR HD, SeparatoR CGF, Invinsa

3I. **Foamed Plastic* —** As an alternate to Items 3-3G, polyurethane foamed plastic roof insulation. When used, gypsum board (item 4) is required. Formed by the simultaneous spraying of two liquid components applied over the gypsum board (item 4) in accordance with the manufacturer's instructions. Min thickness shall be selected from the table above. No limit on max overall thickness.

BASF CORP — Types FE348-2.5, FE348-2.8, FE348-3.0, ELASTOSPRAY 81255, ELASTOSPRAY 81285, ELASTOSPRAY 81305, SKYTITE C1

BASF CORP — Elastospray 5100-2.0, Elastospray 5100-2.5, Elastospray 81302, Elastospray 81272, Elastospray Alpha System, Elastospray 81252

3J. **Building Units* —** Not Shown — As an alternate to Item 3When used, all ratings are reduced by 1/2 hr when used with gypsum board or reduced by 1 hr without gypsum board - Composite polyisocyanurate foamed plastic insulation board with an adhered nailing surface, nom 48 by 48 or 96 in. These composite building units have ventilation slots internal to the panels. The thickness of the panel depends upon the thinnest portion of the polyisocyanurate insulation. The following dimensions apply to the polyisocyanurate insulation, min thickness as measured in accordance with Item 3. There is no limit on the max insulation thickness.
GAF — "ThermaCal® 1" and "ThermaCal® 2"

3K. **Building Units* —** Not Shown - As an alternate to Item 3When used, all ratings are reduced by 1/2 h when used with gypsum board or reduced by 1 hr without gypsum board - Polyisocyanurate foamed plastic insulation boards, nom 48 by 48 or 96 in., faced on the top surface with oriented strand board or plywood. Min thickness of the polyisocyanurate core as measured in accordance with Item 3. No limit on max overall thickness. Boards to be installed with end joints staggered a min of 6 in. in adjacent rows. Adhesive (Item 6) may be applied between the building units and the vapor retarder (or gypsum wallboard if vapor retarder is not used).
GAF — "ThermaCal®"

3L. **Building Units* —** As an alternate to Item 3, polyisocyanurate foamed plastic insulation boards, nom 48 by 48 or 96 in., faced on the top surface with wood fiber board. Min thickness of the polyisocyanurate core shall be selected from Table in Item 3. No limit on max overall thickness. Boards to be installed with end joints staggered a min of 6 in. in adjacent rows.
CARLISLE SYNTEC SYSTEMS, A DIVISION OF CARLISLE CONSTRUCTION MATERIALS, LLC — Polyiso HP-H Composite NH

HUNTER PANELS, A DIVISION OF CARLISLE CONSTRUCTION MATERIALS, LLC — H-Shield-WF, H-Shield-WF NH

VERSICO INC — MP-HWF NH, WeatherBond XP-WF NH

3M. **Building Units* —** As an alternate to Item 3, polyisocyanurate foamed plastic insulation boards, nom 48 by 48 or 96 in., faced on the top surface with perlite composite board. Min thickness of the polyisocyanurate core shall be selected from Table in Item 3. No limit on max overall thickness. Boards to be installed with end joints staggered a min of 6 in. in adjacent rows.
HUNTER PANELS, A DIVISION OF CARLISLE CONSTRUCTION MATERIALS, LLC — H-Shield-P, H-Shield-RP, H-Shield-P NH, H-Shield-RP NH

3N. **Building Units* —** As an alternate to Item 3, polyisocyanurate foamed plastic insulation boards, nom 48 by 48 or 96 in., faced on the top surface with glass mat faced gypsum panel. Min thickness of the polyisocyanurate core shall be selected from Table in Item 3. No limit on max overall thickness. Boards to be installed with end joints staggered a min of 6 in. in adjacent rows.
CARLISLE SYNTEC SYSTEMS, A DIVISION OF CARLISLE CONSTRUCTION MATERIALS, LLC — Polyiso HP-HDD, Polyiso HP-HDD NH

HUNTER PANELS, A DIVISION OF CARLISLE CONSTRUCTION MATERIALS, LLC — H-Shield-DD, H-Shield-DD NH

VERSICO INC — MP-HDD, MP-HDD NH

4. **Gypsum Board —** (Not shown) — (Classified or Unclassified) — May be used to obtain various Restrained or Unrestrained Assembly Ratings as described in Item 10. Supplied in sheets nom 4 by 8 or 12 ft by 5/8 in. thick. Min weight 2.2 psf. Applied

perpendicular to steel roof deck direction with end joints staggered 2 ft in adjacent rows. End joints to occur over crests of steel roof units.
CABOT MANUFACTURING ULC (View Classification)

AMERICAN GYPSUM CO (View Classification)

BEIJING NEW BUILDING MATERIALS PUBLIC LTD CO (View Classification)

CERTAINTEED GYPSUM INC (View Classification)

CGC INC (View Classification)

CERTAINTEED GYPSUM INC (View Classification)

GEORGIA-PACIFIC GYPSUM L L C (View Classification)

NATIONAL GYPSUM CO (View Classification)

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM (View Classification)

PANEL REY S A (View Classification)

SIAM GYPSUM INDUSTRY (SARABURI) CO LTD (View Classification)

THAI GYPSUM PRODUCTS PCL (View Classification)

UNITED STATES GYPSUM CO (View Classification)

USG MEXICO S A DE C V (View Classification)

5. **Vapor Retarder — Sheathing Material* —** (Optional) — (Not shown) — Vinyl film or paper scrim vapor barrier, applied to steel roof deck or gypsum wallboard with adhesive (Item 6), hot asphalt (Item 7) or laid loosely, overlapped approx 2 in. on adjacent sheets. See **Sheathing Material** (CHIZ) category for names of manufacturers.

5A. **Sheathing Material* —** (Optional) — In lieu of Item 5, a self-adhered rubberized asphalt roofing underlayment membrane which may be placed on top of steel roof deck, gypsum wallboard or on the roof insulation.
GCP APPLIED TECHNOLOGIES INC — Grace Ice and Water Shield, Grace Ice and Water Shield-HT®, Grace Select, Grace Ultra, and Grace Basik.

5B. **Sheathing Material* —** (Optional) — In lieu of Item 5 and 5A, a self-adhered rubberized asphalt roofing underlayment membrane which may be placed on top of steel roof deck, gypsum wallboard or on the roof insulation.

CERTAINTEED LLC — WinterGuard Pro

6. **Adhesive* — (Optional) —** The vapor retarder, the gypsum wallboard or the first layer of roof insulation may be secured with adhesive to the steel crest surfaces. Also used to attach the vapor retarder to gypsum wallboard, the first layer of insulation to vapor retarder or gypsum wallboard and each additional layer of insulation. Applied in 1/2 in. wide ribbons 6 in. OC at 0.4 gal/100 sq ft. See **Adhesives** (BYWR) category for names of manufacturers.

6A. **Adhesive* - (Optional) —** (Bearing the UL Classification Marking for Roof Systems (TGFU)) - When FAST 100 adhesive is used, the Unrestrained Assembly Ratings are limited to 1, 1-1/2 and 2 hr. The vapor retarder, the gypsum wallboard or the first layer of roof insulation may be secured with adhesive to the steel crest surfaces. Also used to attach the vapor retarder to gypsum wallboard, the first layer of insulation to vapor retarder or gypsum wallboard and each additional layer of insulation. Applied at a max rate of 19.8 g/ft^2. When FAST 100 adhesive is used, additional **Spray-Applied Fire Resistance Materials* (CHPX)** is required on the deck for the 1-1/2 and 2 hr Unrestrained Assembly Ratings. The thickness specified for the deck shall be increased by 1/16 in. for 1-1/2 hr Unrestrained Assembly Rating and 1/4 in. for 2 hr Unrestrained Assembly Rating.
CARLISLE SYNTEC SYSTEMS, A DIVISION OF CARLISLE CONSTRUCTION MATERIALS, LLC — FAST 100

7. **Asphalt or Coal Tar Pitch —** (Optional) — (Not shown) — The vapor retarder, the gypsum wallboard or the first layer of roof insulation may be secured with asphalt or coal tar pitch to the steel crest surfaces ... applied at a max rate of ... Also used to attach the vapor retarder to gypsum wallboard, the first layer of insulation to vapor retarder or gypsum wallboard and each additional layer of roof insulation, applied at a max rate of 25 lb/100 sq ft.

8. **Mechanical Fasteners — (Optional) —** (Not shown) — Mechanical screw-type fastener with metal or plastic washer designed for the purpose may be used to attach one or more layers of insulation to steel roof deck.

9. **Steel Roof Deck —** (Unclassified) — Min 1-1/2 in. deep and 36 in. wide galv fluted steel deck. Min gauge is No. 22 MSG. Ends overlapped at supports a min 1-1/2 in. and welded to supports 12 in. OC and at side laps. Side laps fastened with 1/2 in. long hex head, self-drilling, self-tapping steel screws spaced a max of 36 in. OC. **Classified Steel Floor and Form Units*** — Noncomposite 1-1/2 to 3 in. deep, 24 to 36 in. wide, min 22 MSG galvanized steel fluted units. Ends overlapped at supports a min 1-1/2 in. and welded to supports 12 in. OC and at side laps. Side laps fastened with 3/4 in. long No. 12 self-drilling, self-tapping steel screws at 36 in. OC. As alternate to screw fasteners adjacent units may be button-punched or welded together 36 in. OC along side joints.

ASC STEEL DECK, DIV OF ASC PROFILES L L C — Types BH-36, BHN-36, BHN-35-1/4, DGB-36, B-36, BN-36, BN-35-1/4, NH-32, NHN-32, DGN-32, N-32 and NN-32. All units may be galvanized or Prime Shield™. Non-cellular decks may be vented designated with a "V" suffix to the product name.

CANAM GROUP INC — Type P-3606, P-3615, P-2436, and P-2404 noncomposite; 36 in. wide Types 1.5B, 1.5BI; 24 in. wide Types 3N, 3NI.

CANAM STEEL CORP — Types B, F, N. Units may be phos./ptd or ptd/ptd.

INTSEL STEEL EAST LLC — 36 in. wide Type 1.5" B-DECK/ROOF, 24 in. wide Type N-DECK/ROOF.

NEW MILLENNIUM BUILDING SYSTEMS L L C — Types B, BD, BI, F, FD, N, ND, NW32 and NW32I. . Units may be phos/painted, ptd/ptd, or galvanized. Painted units may be used for ratings up to 2 h.

VERCO DECKING INC - A NUCOR CO — Types PLB, HSB, PLN and N; or Types PLN3, HSN3. Ptd/ptd units may be used for ratings up to 2 h.

VULCRAFT, DIV OF NUCOR CORP — Types BW, F, High Strength B, High Strength BW, N, ptd/ptd units may be used for ratings up to 2 h.

VULCRAFT, DIV OF NUCOR CORP — Galv Types 1.5B, 1.5BI, 1.5PLB, 1.5F, 3N, 3NI, 3.0PLN, 3NL-32, 3NI-32, 3PLN-32, ptd/ptd units may be used for ratings up to 2 h.

Note: Type Z-106 Spray-Applied Fire Resistive Materials to be used with galv steel roof units only.

10. **Spray-Applied Resistive Material* —** Applied by mixing with water and spraying in more than one coat to final thicknesses as shown in the illustration above and in the table below to steel surfaces which must be clean and free of dirt, loose scale and oil. When Types MK-6/HY, MK-6/HY Extended Set, MK-10 HB, MK-10 HB Extended Set, MK-6/HB, MK-6s, MK-6 GF, MK-6 GF Extended Set, MK-1000/HB, MK-1000/HB Extended Set and Z-106/G are used. steel deck surface must be "spatter" coated with Type SK-3 Spray-Applied Fire Resistive Materials prior to application of spray-applied resistive material. Type SK-3 spray-applied resistive material applied in accordance with the manufacturer's application instructions. When steel deck is used the area between the steel deck and the beams top flange shall be filled. When Types Z-146, Z-146T, Z146PC, Z-156, Z-156T and Z-156PC are applied to steel deck, installation of expanded metal lath is required per Item 11A. Min average and min individual density of 15/14 pcf respectively for Types MK-6/HY, MK-6/HY Extended Set, MK-10 HB, MK-10 HB Extended Set, MK-6/HB, MK-6s, MK-6 GF, MK-6 GF Extended Set, MK-1000/HB, MK-1000/HB Extended Set. Min avg and min ind density of 22/19 pcf respectively for Types Z-106, Z-106G, Z-106/HY. Min avg and min ind density of 40/36 pcf respectively for Types Z-146, Z-146PC and Z-146T. Min avg and min ind density of 50/45 pcf respectively for Types Z-156, Z-156T and Z-156PC. For method of density determination, see Design Information Section. Thickness of the spatter coat is included in the total final thickness of the protection material.

Restrained Assembly Rating Hr	Unrestrained Assembly Rating Hr	Unrestrained Beam Rating Hr	Steel deck thickness # with Gypsum Wallboard	Without Gypsum Wallboard	Beam Thickness (in) W8x28 Beam
1	0@	1	N/A	1	3/8
1	1	1	9/16 ***	1	3/8
1	1	1	5/8	1	3/8

MKM
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Certification: 09.13.2024 BID SET

ZACHARY R. BENEDICT
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No. AR11200057
STATE OF INDIANA
ARCHITECT

Consultant Logo:

Key Plan:

THE LANDING 3.0

NEW CONSTRUCTION
555 S. HARRISON ST.
Fort Wayne, Indiana 46802

REVISION

No.	Date	Revision

DRAWING CONTENTS:
UL ASSEMBLIES (P573)

ISSUE DATE: 09.13.2024
PROJECT NO.: 23029

DRAWING NO.
G-121aa

UL P573 SPECIFICATIONS (PG. 2)

1	1	1	1 *	1-5/8 *	3/8
1 1/2	1	1	3/4	1 1/4	9/16
1 1/2	1 1/2	1 1/2	13/16	1 3/8	11/16
1 1/2	1 1/2	1 1/2	1 1/2 *	2 1/8 *	11/16
2	1	1	1	1 1/2	7/8
2	1 1/2	1 1/2	1	1 1/2	7/8
2	2	2	1 1/8	1 11/16	1
2	2	2	2 *	2 5/8 *	1
3	1 1/2	1 1/2	1 1/2	2 1/8	1 1/2
3	2	2	1 1/2	2 1/8	1 1/2
3	3	3	1 5/8	2 3/8	1 5/8

The required minimum thickness of Spray-Applied Fire Resistive Materials on the steel deck is increased by 1/16 inch for 1-1/2 hr Un-restrained assembly rating and 1/4 inch for 2 hr Unrestrained Assembly rating when Item 6A is used.

When the thickness applied to the lower flange edges is reduced by one half, the 1/2 flange thickness is applicable.

* No minimum insulation thickness required.

***Minimum insulation thickness (Item 3) 2 inches.

@ When the maximum clear span of the steel decking is 5 ft. 2 in. or less, the Unrestrained Assembly Rating is 1-hour.

N/A Not applicable, no rating. Refer to rows 2, 3 or 4 of the table. The thickness of SFRM will depend upon the thickness of the insulation (Item 3). "N/A" is not meant to imply that no SFRM is required.

Restrained Assembly Rating Hr	Unrestrained Assembly Rating Hr	Unrestrained Beam Rating Hr	Joist thickness (in) 10K1 more than 4 ft OC	Joist thickness (in) 10K1 less than 4 ft OC
1	0@	1	1 1/8	1
1	1	1	1 1/8	1
1 1/2	1	1	1 5/8	1 7/16
1 1/2	1 1/2	1 1/2	1 5/8	1 7/16
2	1	1	2 3/16	1 7/8
2	1 1/2	1 1/2	2 3/16	1 7/8
2	2	2	2 3/16	1 7/8
3	1 1/2	1 1/2	3 1/4	2 13/16
3	2	2	3 1/4	2 13/16

3	3	3	3 1/4	2 13/16

@ When the maximum clear span of the steel decking is 5 ft. 2 in. or less, the Unrestrained Assembly Rating is 1-hour.

ARABIAN VERMICULITE INDUSTRIES — Types MK-6/HY, MK-6/HY Extended Set, MK-10 HB, MK-10 HB Extended Set, MK-6/HB, MK-6s, MK-6 GF, MK-6 GF Extended Set, MK-1000/HB, MK-1000/HB Extended Set, SK-3, Z-106, Z-106/G, Z-106/HY and Type Z-146 (investigated for exterior use).

GCP KOREA INC — Types MK-6/HY, MK-6/HY Extended Set, MK-6/HB, MK-6s, MK-6 GF, MK-6 GF Extended Set, MK-10 HB, MK-10 HB Extended Set, MK-1000/HB, MK-1000/HB Extended Set, SK-3, Types Z-106, Z-106G, Z-106/HY and Type Z-146 (investigated for exterior use).

GCP APPLIED TECHNOLOGIES INC — Types MK-6/HY, MK-6/HY Extended Set, MK-6/HB, MK-6s, MK-6 GF, MK-6 GF Extended Set, MK-10 HB, MK-10 HB Extended Set, MK-1000/HB, MK-1000/HB Extended Set, RG, SK-3, Types Z-106, Z-106G, Z106/HY, Z-146, Z-146T, Z146PC, Z-156, Z-156T and Z-156PC. Type Z-146, Z-146T, Z146PC, Z-156, Z-156T and Z-156PC investigated for exterior use.

10A. **Alternate Spray-Applied Fire Resistive Materials* —** Applied by mixing with water and spraying in one or more coats to final thicknesses as shown in the table below to steel beam surfaces which must be clean and free of dirt, loose scale and oil. When Type Z-106/G is used, the steel deck surface must be "spatter" coated with Type SK-3 Spray-Applied Fire Resistive Materials prior to application of spray-applied resistive material. Type SK-3 spray-applied resistive material applied in accordance with the manufacturer's application instructions. When steel deck is used the area between the steel deck and the beams top flange shall be filled. Min avg and min ind density of 22/19 pcf, respectively. For method of density determination, refer to Design Information Section.

10B. **Alternate Spray-Applied Fire Resistive Materials* —** Applied by mixing with water and spraying in one or more coats to final thicknesses as shown in the table below to steel beam surfaces which must be clean and free of dirt, loose scale and oil. When steel deck is used, the area between the steel deck and the beams top flange shall be filled. Application to steel roof deck requires the installation of expanded metal lath. See Item 11A. Min avg and min ind density of 40/36 pcf respectively for Types Z-146, Z-146PC and Z-146T cementitious mixture. Min avg and min ind density of 50/45 pcf respectively for Types Z-156, Z-156T and Z-156PC. For method of density determination, refer to Design Information Section.

11. **Nonmetallic Fabric Mesh —** (Optional) — As an alternate to the optional use of metal lath, glass fiber fabric mesh, weighing approx 2.5 oz/sq yd, polypropylene fabric mesh, weighing approx 1.25 oz/sq yd or equivalent, may be used to facilitate the spray application. The mesh is secured to one side of each joist web member. The method of attaching the mesh must be sufficient to hold the mesh and the spray applied Spray-Applied Fire Resistive Materials material in place during application until it has cured. An acceptable method to attach the mesh is by embedding the mesh in min 1/4 in. long beads of hot melted glue. The beads of glue shall be spaced a max of 12 in. OC along the top chord of the bar joist. Another method to secure the mesh is by 1-1/4 in. long by 1/2 in. wide hairpin clips formed from No. 18 SWG or heavier steel wire.
The method of attaching the mesh must be sufficient to hold the mesh and the spray applied Spray-Applied Fire Resistive Materials material in place during application until it has cured. An acceptable method to attach the mesh is by embedding the mesh in min 1/4 in. long beads of hot melted glue. The beads of glue shall be spaced a max of 12 in. OC along the top chord of the bar joist Another method to secure the mesh is by 1-1/4 in. long by 1/2 in. wide hairpin clips formed from No. 18 SWG or heavier steel wire.

11A. **Metal Lath —** (Not Shown) — (Required with Item 10B, otherwise optional) — Metal lath shall be 3/8 in. expanded diamond mesh, weighing 2.5 lb per sq yd. Secured to underside of steel deck with No. 12 by 3/8 in. pan head self-drilling, self-tapping screws and steel washers with an outside diam of 1/2 in. screws spaced 12 in. OC in both directions with lath edges overlapped approx 3 in.

11B. **Metal Lath —** (Not Shown) — (Required on both sides of joists with Z-146, Z-146T, Z146PC, Z-156, Z-156T and Z-156PC, otherwise optional) — Metal lath may be used to facilitate the spray application of Spray-Applied Fire Resistive Materials on steel bar joists and trusses. The diamond mesh, 3/8 in. expanded steel lath, 1.7 to 3.4 lb/sq yd is secured to one side of each steel joist with No. 18 SWG galv steel wire at joist web and bottom chord members spaced 15 in. OC max. When used, the metal lath is to be fully covered with Spray-Applied Fire Resistive Materials with no min thickness requirements.

12. **Sprayed Fiber* —** (Optional, Not Shown) Sprayed Fiber, Classified for Surface Burning Characteristics (BNST), having a maximum applied density of 3.5 pcf applied over Spray-Applied Fire Resistive Material (Item 10 through 10B) on Steel Roof Deck or Steel Floor and Form Units (Item 9) and Beams (Item 1) in accordance with the following tables:

Allowable Sprayed Fiber Thickness over SFRM applied to Steel Roof Deck or Steel Floor and Form Units (Item 9)

Installed SFRM Thickness (in.) on Joist	SFRM Density (lb/ft^3) 15	22	40	50
	Sprayed Fiber Thickness (in.)			
9/16	8	8	8	8
5/8	8	8	8	8
3/4	8	8	8	8
13/16	7-3/4	8	8	8
1	6-15/16	8	8	8
1-1/16	6-11/16	8	8	8
1-1/8	6-7/16	8	8	8
1-1/4	5-7/8	8	8	8
1-3/8	5-3/8	7-1/16	8	8
1-1/2	4-13/16	7-1/16	8	8
1-5/8	4-5/16	6-5/16	8	8
1-11/16	4	5-7/8	7-7/8	8
2	2-11/16	3-15/16	4-5/16	5-3/8
2-1/8	2-1/8	3-1/8	2-7/8	3-9/16
2-3/8	1-1/16	1-9/16	0	0
2-5/8	0	0	0	0

Allowable Sprayed Fiber Thickness over SFRM applied to Beams (Item 1)

Installed SFRM Thickness (in.) on Joist	SFRM Density (lb/ft^3) 15	22	40	50
	Sprayed Fiber Thickness (in.)			
3/8	8	8	8	8
9/16	8	8	8	8
5/8	8	8	8	8
11/16	8	8	8	8
3/4	8	8	8	8
13/16	8	8	8	8
7/8	8	8	8	8
1	8	8	8	8
1-1/2	6-15/16	8	8	8
1-5/8	6-7/16	8	7-7/8	8

Allowable Sprayed Fiber Thickness over SFRM applied to Joists (Item 1)

Installed SFRM Thickness (in.) on Joist	SFRM Density (lb/ft^3) 15	22	40	50
	Sprayed Fiber Thickness (in.)			
1	8	8	8	8
1-1/8	8	8	8	8
1-7/16	7-3/4	8	8	8
1-1/2	7-1/2	8	8	8
1-9/16	7-1/4	8	8	8
1-5/8	6-15/16	8	8	8
1-7/8	5-7/8	8	8	8
2-3/16	4-9/16	6-11/16	8	8
2-13/16	1-7/8	2-3/4	5	6-1/4
3-1/4	0	0	0	0

INTERNATIONAL CELLULOSE CORP — Type K13, URE-K, or SonaSpray FC

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

Last Updated on 2024-05-01

MKM
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Certification: 09.13.2024 BID SET

Consultant Logo:

Key Plan:

THE LANDING 3.0

NEW CONSTRUCTION
555 S. HARRISON ST.
Fort Wayne, Indiana 46802

REVISION		
No.	Date	Revision

DRAWING CONTENTS:
UL ASSEMBLIES (P573)

ISSUE DATE:	PROJECT NO.
09.13.2024	23029

DRAWING NO.
G-121b

Plot Time/Date: 9/12/2024 2:48:17 PM
Drawing Name: Template.rte

UL P546 SPECIFICATIONS (PG. 1)

UL Product iQ®

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States

BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

See General Information for Fire-resistance Ratings - ANSI/UL 263 Certified for United States
Design Criteria and Allowable Variances

See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada
Design Criteria and Allowable Variances

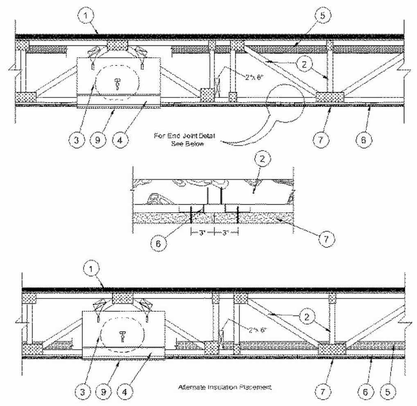
Design No. L546

November 30, 2022

Unrestrained Assembly Rating — 1 Hr
Finish Rating — 24 or 25 Min (See Item 5)
This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used — See Guide BXUV or BXUV7

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

Feedback



1. **Flooring System —** The flooring system shall consist of one of the following:

System No. 1

Subflooring — Min 15/32 or 19/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panel to be perpendicular to trusses with joints staggered.

Finish Flooring - Floor Topping Mixture* — Min 3/4 thickness of floor topping mixture having a minimum compressive strength of 1500 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.

MAXXON CORP — Types Maxxon Standard and Maxxon High Strength

Floor Mat Materials* — (Optional) — Floor mat material loose laid over the subfloor. Refer to manufacturer's instructions regarding the minimum thickness of floor topping over each floor mat material.

MAXXON CORP — Type Encapsulated Sound Mat

Floor Mat Reinforcement — (Optional) Refer to manufacturer's instructions regarding minimum thickness of floor topping for use with floor mat reinforcement.

Metal Lath — (Optional) — 3/8 in. expanded galvanized steel diamond mesh, 3.4 lbs/sq yd loose laid over the floor mat material.

Fiber Glass Reinforcement - (Optional, Not Shown) - 0.015 in. thick PVC coated non-woven fiberglass mesh, 0.368 lbs/sq yd loose laid over the floor mat material.

Feedback

Floor Mat Materials* — (Optional) — Floor mat material loose laid over the subfloor. Refer to manufacturer's Instructions regarding the minimum thickness of floor topping over each floor mat material.

UNITED STATES GYPSUM CO — Types SAM, LEVELROCK® Brand Sound Reduction Board, LEVELROCK® Brand Floor Underlayment SRM-25

Alternate Floor Mat Materials* — (Optional) - Floor mat material loose laid over the subfloor. Refer to manufacturer's Instructions regarding minimum thickness of floor topping over floor mat.

GRASSWORX L L C — SC Types

System No. 9

Subflooring — Min 23/32 in. thick T&G wood structural panels, min grade "Underlayment" or "Single-Floor". Face grain of plywood or strength axis of panels to be perpendicular to the trusses with end joints staggered 4 ft. Panels secured to trusses with construction adhesive and No. 6d ringed shank nails spaced 12 in. OC along each truss. Staples having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails.

Gypsum Board* — One layer of nom 5/8 in. thick, 4 ft wide gypsum board, installed with long dimension perpendicular to joists. Gypsum board secured with 1 in. long No. 6 Type W bugle head steel screws spaced 12 in. OC and located a min of 1-1/2 in. from side and end joints. The joints of the gypsum board are to be staggered a minimum of 12 inches from the joints of the subfloor.

GEORGIA-PACIFC GYPSUM L L C — Type DS

Floor Mat Materials* — (As an alternate to the single layer gypsum board) — Floor mat material loose laid over the subfloor.

MAXXON CORP — Type Encapsulated Sound Mat

Gypsum Board* — (For use when floor mat is used) Two layers of nom 5/8 in. thick, 4 ft wide gypsum board, installed with long dimension perpendicular to joists on top of the floor mat material. Gypsum board secured to each other with 1 in. long No. 6 Type G bugle head steel screws spaced 12 in. OC and located a min of 1-1/2 in. from side and end joints. The joints of the gypsum board are to be staggered a minimum of 12 inches in between layers and from the joints of the subfloor.

GEORGIA-PACIFC GYPSUM L L C — Type DS

System No. 10

Subflooring — Min 15/32 or 19/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panel to be perpendicular to trusses with joints staggered.

Vapor Barrier — (Optional) — Nom 0.030 in. thick commercial asphalt saturated felt.

Finish Flooring — Floor Topping Mixture* — Min 3/4 or 1 in. thickness of floor topping mixture for 19/32 or 15/32 in. thick wood structural panels respectively, having a min compressive strength of 1000 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.

DEPENDABLE LLC — GSL M3.4, GSL K2.6, GSL-CSD, GSL RH, and SKIMFLOW.

Floor Mat Materials* — (Optional) — Nom. 1/4 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 3/4 in.

KEENE BUILDING PRODUCTS CO INC — Type Quiet Qurl 55/025 and Quiet Qurl 55/025 N

Alternate Floor Mat Materials* — (Optional) — Floor mat material Nom. 3/8 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 1 in.

KEENE BUILDING PRODUCTS CO INC — Type Quiet Qurl 60/040 and Quiet Qurl 60/040 N

Alternate Floor Mat Materials* — (Optional) — Floor mat material Nom. 3/4 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 1-1/2 in.

KEENE BUILDING PRODUCTS CO INC — Type Quiet Qurl 65/075, Quiet Qurl 65/075 N

Feedback

Alternate Floor Mat Materials* — (Optional) — Floor mat material Nom. 1/8 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 3/4 in.

KEENE BUILDING PRODUCTS CO INC — Type Quiet Qurl 52/013 and Quiet Qurl 52/013 N

Alternate Floor Mat Materials* — (Optional) — Floor mat material Nom. 1/4 in. entangled net core with a compressible fabric attached to the bottom loose laid over the subfloor. Floor topping thickness shall be a minimum of 1 in.

KEENE BUILDING PRODUCTS CO INC — Quiet Qurl 55/025 MT and Quiet Qurl 55/025 N MT

System No. 11

Subflooring — Min 15/32 or 19/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panel to be perpendicular to trusses with joints staggered.

Finish Flooring - Floor Topping Mixture* — Min 1 in. thickness of floor topping mixture having a min compressive strength of 4500 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.
SIKA DEUTSCHLAND GMBH — Type SCHONOX AP Rapid Plus

System No. 12

Subflooring — Min 15/32 or 19/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panel to be perpendicular to trusses with joints staggered.

Vapor Barrier — (Optional) - Commercial asphalt saturated felt, 0.030 in. thick.

Finish Flooring - Floor Topping Mixture* — Min 3/4 in. thickness of any Floor Topping Mixture bearing the UL Classification Marking as to Fire Resistance. See Floor- and Roof-Topping Mixtures (CCOX) category for names of Classified Companies. Refer to the manufacturer's instructions accompanying the material and/or contact the manufacturer's technical support for specific mix design and minimum thickness recommended for use with eligible floor mat(s).

Floor Mat Materials* — (Optional, Not Shown) - Floor mat material loose laid over the subfloor. Refer to manufacturer's instructions regarding the minimum thickness of floor topping over each floor mat material.
LOW & BONAR INC — EnkaSonic® by Colbond a member of the Low & Bonar group Types 125, 250, 250 Plus, 400, 400 Plus, 750, and 750 Plus.

Floor Mat Reinforcement — (Optional) - Refer to manufacturer's instructions regarding minimum thickness of floor topping for use with floor mat reinforcement.

Metal Lath — (Optional) — Expanded steel diamond mesh, 2.5 lb / sq yd loose laid over floor mat material.

Fiberglass Mesh Reinforcement — (Optional) — Coated non-woven glass fiber mesh grid loose laid over floor mat material.

System No. 13

Subflooring — Min 15/32 or 19/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panel to be perpendicular to trusses with joints staggered.

Vapor Barrier — (Optional) — Nom 0.030 in. thick commercial asphalt saturated felt.

Floor Mat Materials* — (Optional) — Floor mat material loose laid over the subfloor. Refer to manufacturer's instructions regarding the minimum thickness of floor topping over each floor mat material.

GRASSWORX L L C — SC Types

Finish Flooring* — Min 3/4 in. thickness of any Floor Topping Mixture bearing the UL Classification Marking as to Fire Resistance. See Floor- and Roof-Topping Mixtures (CCOX) category for names of Classified Companies. Refer to the manufacturer's instructions accompanying the material and/or contact the manufacturer's technical support for specific mix design and minimum thickness recommended for use with eligible floor mat(s).

Floor Mat Reinforcement — (Optional) - Refer to manufacturer's instructions regarding minimum thickness of floor topping for use with floor mat reinforcement.

Feedback

System No. 2

Subflooring — Min 1 by 6 in. T & G lumber fastened diagonally to joists, or min 15/32 in. thick plywood or min 7/16 in. thick oriented strand board (OSB) wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panel to be perpendicular to trusses with joints staggered.

Finish Floor — Mineral and Fiber Board* — Min 1/2 in. thick, supplied in sizes ranging from 3 ft by 4 ft to 8 ft by 12 ft. All joints to be staggered a min of 12 in. with adjacent sub-floor joints.

HOMASOTE CO — Type 440-32 Mineral and Fiber Board

System No. 3

Subflooring — Min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to the trusses with joints staggered.

Vapor Barrier — (Optional) — Nom 0.030 in thick commercial asphalt saturated felt.

Finish Flooring — Floor Topping Mixture* — Min 1-1/2 in. thickness of floor topping mixture having a min compressive strength of 1000 psi and a cast density of 100 plus or minus 5 pcf. Foam concentrate mixed 40:1 by volume with water and expanded at 100 psi through nozzle. Mixture shall consist of 1.4 cu feet of preformed foam concentrate to 94 lbs Type I Portland cement, 300 lbs of sand with 5-1/2 gal of water.

ELASTIZELL CORP OF AMERICA — Type FF

System No. 4

Subflooring — Min 15/32 or 19/32 in. thick wood structural panels, min grade C-D or Sheathing. Face grain of plywood or strength axis of panel to be perpendicular to trusses with joints staggered.

Vapor Barrier — (Optional) Nom 0.030 in. thick commercial asphalt saturated felt.

Finish Flooring — Floor Topping Mixture* —Min 3/4 in. thickness of floor topping mixture having a minimum compressive strength of 1500 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.

FORMULATED MATERIALS LLC — Types FR-25, FR-30, and SiteMix

Alternate Floor Mat Material* — (Optional) Floor mat material nominal 2 - 9.5 mm thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 3/4 in.

FORMULATED MATERIALS LLC — Types M1, M2, M3, Elite, Duo, R1, and R2

System No. 5

Subflooring — Min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panel to be perpendicular to trusses with joints staggered.

Floor Mat Materials* — (Optional) — Floor mat material nom 5/64 in. (2 mm) thick adhered to subfloor with Hacker Floor Primer. Primer to be applied to the surface of the mat prior to the placement of a min 1 in. of floor-topping mixture.

HACKER INDUSTRIES INC — Type Hacker Sound-Mat.

Alternate Floor Mat Materials — (Optional) — Floor mat material nom 1/4 in. (6 mm) thick adhered to subfloor with Hacker Floor Primer. Primer to be applied to the surface of the mat prior to the placement of a min 1-1/4 in. (32 mm) of floor-topping mixture.

HACKER INDUSTRIES INC — Type Hacker Sound-Mat II.

Alternate Floor Mat Materials — (Optional) — Floor mat material nom 1/8 in. (3mm) thick loose laid over the subfloor. Floor topping thickness shall be a min of 3/4 in. (19 mm)

HACKER INDUSTRIES INC — FIRM-FILL SCM 125

Alternate Floor Mat Materials — (Optional) — Floor mat material nom 1/4 in. (6 mm) thick loose laid over the subfloor. Floor topping thickness shall be a min of 1 in. (25 mm)

HACKER INDUSTRIES INC — Type FIRM-FILL SCM 250, Quiet Qurl 55/025

Feedback

Alternate Floor Mat Materials — (Optional) — Floor mat material nom 3/8 in. (10 mm) thick loose laid over the subfloor. Floor topping thickness shall be a min of 1-1/4 in. (32mm)

HACKER INDUSTRIES INC — FIRM-FILL SCM 400, Quiet Qurl 60/040

Alternate Floor Mat Materials — (Optional) — Floor mat material nom 3/4 in. (19 mm) thick loose laid over the subfloor. Floor topping thickness shall be a min of 1-1/2 in. (38mm)

HACKER INDUSTRIES INC — Type FIRM-FILL SCM 750, Quiet Qurl 65/075

Metal Lath — (Optional) — For use with 3/8 in. (10 mm) floor mat materials, 3/8 in. expanded steel diamond mesh, 3.4 lbs/sq yd placed over the floor mat material. Hacker Floor Primer to be applied prior to the placement of the metal lath. When metal lath is used, floor topping thickness a nom 1-1/4 in. over the floor mat.

Finish Flooring — Floor Topping Mixture* — Min 3/4 in. thickness of floor topping mixture having a min compressive strength of 1100 psi. Mixture shall consist of 6.8 gal of water to 80 lbs of floor topping mixture to 1.9 cu ft of sand.

HACKER INDUSTRIES INC — Firm-Fill Gypsum Concrete, Firm-Fill 2010, Firm-Fill 3310, Firm-Fill 4010, Firm-Fill High Strength, Gyp-Span Radiant

System No. 6

Subflooring — Min 15/32 or 19/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panel to be perpendicular to trusses with joints staggered.

Vapor Barrier — (Optional) — Nom 0.030 in. thick commercial asphalt saturated felt.

Finish Flooring — Floor Topping Mixture* — Min 3/4 or 1 in. thickness of floor topping mixture for 19/32 or 15/32 in. thick wood structural panels respectively, having a min compressive strength of 1000 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.

ARCOSA SPECIALTY MATERIALS — AccuCrete® Types NexGen, Green, Prime and PrePour, AccuRadiant®, AccuLevel® Types G40, G50 and SD30

Alternate Floor Mat Material* — (Optional) — Floor mat material nominal 2 - 9.5 mm thick loose laid over the subfloor. Floor topping shall be a min of 3/4 in. or 1 in. thickness of floor topping for 19/32 or 15/32 in. thick wood structural panels respectively.

ARCOSA SPECIALTY MATERIALS — AccuQuiet® Types D13, D-18, D25, DX38, EM.125, EM.125S, EM.250, EM.250S, EM.375, EM.375S, EM.750, and EM.750S.

System No. 7

Subflooring — 15/32 or 19/32 in. thick wood structural panels, min. grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to joists with joints staggered.

Vapor Barrier — (Optional) — Commercial asphalt saturated felt 0.030 in. thick.

Finish Flooring — Floor Topping Mixture* — Compressive strength to be 2100 psi min. Thickness to be 3/4 in. min for 19/32 in thick wood structural panels or 1 in. min. for 15/32 in thick wood structural panels. Refer to manufacturer's instructions accompanying the material for specific mix design. Refer to the manufacturer's instructions accompanying the material and/or contact the manufacturer's technical support for specific mix design and minimum thickness recommended for use with eligible floor mat(s).

System No. 8

Subflooring — Min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to the trusses with joints staggered.

Vapor Barrier — (Optional) — Nom 0.010 in. thick commercial asphalt saturated felt.

Finish Flooring — Floor Topping Mixture* — Min 3/4 in. thickness of floor topping mixture having a minimum compressive strength of 1800 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.

UNITED STATES GYPSUM CO — Types LRK, HSLRK, CSD

USG MEXICO S A DE C V — Types LRK, HSLRK, CSD

2. Trusses — Parallel chord trusses spaced a max of 24 in. OC fabricated from nom 2 by 4 lumber, with lumber oriented vertically or horizontally. Min truss depth is 12 in. when dampers are not used and 18 in. when dampers are used. Truss members secured together with min 0.036 in. thick galv steel plates. Plates have 5/16 in. long teeth projecting perpendicular to the plane of the plate. The teeth are in pairs facing each other (made by the same punch), forming a split tooth type plate. Each tooth has a chisel point on its outside edge with these points being diagonally opposite each other for each pair. The top half of each tooth has a twist for stiffness. The pairs are repeated on approximately 7/8 in. centers with four rows of teeth per inch of plate width.

3. Air Duct* — (Optional) — Any UL Class 0 or Class 1 flexible air duct installed in accordance with the instructions provided by the damper manufacturer

4. Ceiling Damper* — (Optional. To be used with Air Duct Item 3) — For use with min 18 in. deep trusses. Max nom area shall be 324 sq in. Max square size shall be 18 in. by 18 in. Rectangular sizes not to exceed 324 sq in. with a max width of 18 in. Max height of damper shall be 14 in. Aggregate damper openings shall not exceed 162 sq in. per 100 sq ft of ceiling area. Damper installed in accordance with the manufacturers installation instructions provided with the damper. A steel grille (Item 9) shall be installed in accordance with installation instructions.
C&S AIR PRODUCTS — Model RD-521

POTTORFF — Model CFD-521

4A. Alternate Ceiling Damper* — For use with min 18 in. deep trusses. Max nom area shall be 196 sq in. Max square size shall be 14 in. by 14 in. Rectangular sizes not to exceed 196 sq in. with a max width of 26 in. Max height of damper shall be 7 in. Aggregate damper openings shall not exceed 98 sq in. per 100 sq ft of ceiling area. Damper installed in accordance with the manufacturers installation instructions provided with the damper. A steel grille (Item 9) not to exceed 144 in.^{2} shall be installed in accordance with installation instructions.
C&S AIR PRODUCTS — Model RD-521-BT

POTTORFF — Model CFD-521-BT.

4B. Alternate Ceiling Damper* — (Optional. To be used with Air Duct Item 3) — For use with min 18 in. deep trusses. Max nom area shall be 256 sq in. with the length not to exceed 24 in. and the width not to exceed 20 in. Max height of damper shall be 17 in. Aggregate damper openings shall not exceed 128 sq in. per 100 sq ft of ceiling area. Damper installed in accordance with the manufacturers installation instructions provided with the damper. A steel grille (Item 9) shall be installed in accordance with installation instructions.
C&S AIR PRODUCTS — Model RD-521-IP, RD-521-NP

POTTORFF — Models CFD-521-IP, CFD-521-NP

4C. Alternate Ceiling Damper* — For use with min 18 in. deep trusses. Max nom area shall be 144 sq in. with the length not to exceed 14 in. and the width not to exceed 12 in. Max height of damper shall be 17-7/8 in. Aggregate damper openings shall not exceed 74 sq in. per 100 sq ft of ceiling area. Damper installed in accordance with the manufacturers installation instructions provided with the damper. A steel grille (Item 9) shall be installed in accordance with installation instructions.
C&S AIR PRODUCTS — Model RD-521-90, RD-521-NP90

POTTORFF — Models CFD-521-90, CFD-521-90NP

4D. Alternate Ceiling Damper* — For use with min. 18 in. deep trusses. Max. nom area shall be 349 sq in. Max. overall length and width shall not exceed 18-11/16 in. by 18-11/16 in. with max. 16 in. by 16 in. register opening. Aggregate damper openings shall not exceed 175 sq in. per 100 sq ft of ceiling area. Damper installed in accordance with the manufacturers installation instructions provided with the damper. An aluminum or steel grille (Item 9) shall be installed in accordance with installation instructions.
MIAMI TECH INC — Model Series RxCRD, RxCRDS or RxCRPD

4E. Alternate Ceiling Damper* — Ceiling damper & fan assembly for use with min 18 in. deep trusses. Max nom area shall be 75 sq in. with the length not to exceed 8-9/16 in. and the width not to exceed 8-3/4 in. Max height of damper shall be 9-7/8 in. Aggregate damper openings shall not exceed 38 sq in. per 100 sq ft of ceiling area. Damper shall be installed in combination with one of the fan models described in, and in accordance with, the manufacturers installation instructions provided with the damper. A plastic grille (Item 9) shall be installed in accordance with installation instructions.
DELTA ELECTRONICS INC — Models CRD2, GBR-CRD, ITG-CRD

4F. Alternate Ceiling Damper* — For use with min 18 in. deep trusses. Max nom area shall be 324 sq in. Max square size shall be 18 in. by 18 in. Rectangular sizes not to exceed 324 sq in. with a max length of 20 in. and a max width of 22 in. Max height of damper shall be 14 in. Aggregate damper openings shall not exceed 154 sq in. per 100 sq ft of ceiling area. Damper shall be installed in accordance with the manufacturer's installation instructions provided with the damper. An aluminum or steel grille (Item 9) shall be installed in accordance with installation instructions.
UNITED ENERTECH CORP — Type C-S/R-WT or C-S/R-WTP (Max nom area 324 sq. in.) or C-S/R-WTS or C-S/R-WTPS (Max nom area 162 sq. in.)

4G. Alternate Ceiling Damper* — Ceiling damper & fan assembly for use with min 18 in. deep trusses. Max nom area shall be 75 sq in. with the length not to exceed 9-1/4 in. and the width not to exceed 9-3/4 in. Max height of damper shall be 9-7/8 in. Aggregate damper openings shall not exceed 45 sq in. per 100 sq ft of ceiling area. Damper shall be installed in combination with one of the fan models described in, and in accordance with, the manufacturer's installation instructions provided with the damper. A plastic grille (Item 9) shall be installed in accordance with installation instructions.
DELTA ELECTRONICS INC — Model SIG-CRD

4H. Alternate Ceiling Damper* — Ceiling damper & fan assembly for use with min 18 in. deep trusses. Max nom area shall be 131 sq in. with the length not to exceed 11-1/16 in. and the width not to exceed 11-7/8 in. Aggregate damper openings shall not exceed 66 sq in. per 100 sq ft of ceiling area. Damper shall be installed in combination with one of the fan models described in, and in accordance with, the manufacturer's installation instructions provided with the damper. A plastic grille (Item 9) shall be installed in accordance with installation instructions.
DELTA ELECTRONICS INC — Model SMT-CRD

4I. Alternate Ceiling Damper* — Ceiling damper & fan assembly for use with min 18 in. deep trusses. Max nom area shall be 103 sq in. with the length not to exceed 10-1/8 in. and the width not to exceed 10-1/8 in. Aggregate damper openings shall not exceed 52 sq in. per 100 sq ft of ceiling area. Damper shall be installed in combination with one of the fan models described in, and in accordance with, the manufacturer's installation instructions provided with the damper. A plastic grille (Item 9) shall be installed in accordance with installation instructions.
PANASONIC CORPORATION, PANASONIC CORPORATION OF NORTH AMERICA — Model PC-RD0SCS

4J. Alternate Ceiling Damper* — Ceiling damper & fan assembly for use with min 18 in. deep trusses. Max nom area shall be 113 sq in. with the length not to exceed 10-1/8 in. and the width not to exceed 11-1/8 in. Aggregate damper openings shall not exceed 57 sq in. per 100 sq ft of ceiling area. Damper shall be installed in combination with one of the fan models described in, and in accordance with, the manufacturer's installation instructions provided with the damper. A plastic grille (Item 9) shall be installed in accordance with installation instructions.
BROAN-NUTONE L L C — Model RDFUWT

4K. Alternate Ceiling Damper* — Ceiling damper & fan assembly for use with min 18 in. deep trusses. Max nom area shall be 79 sq in. with the length not to exceed 10 in. and the width not to exceed 7-15/16 in. Aggregate damper openings shall not exceed 40 sq in. per 100 sq ft of ceiling area. Damper shall be installed in combination with one of the fan models described in, and in accordance with, the manufacturer's installation instructions provided with the damper. A metallic grille (Item 9) shall be installed in accordance with installation instructions.
BROAN-NUTONE L L C — Models RDJ1 and RDH

4L. Alternate Ceiling Damper* — Ceiling damper & fan assembly for use with min 18 in. deep trusses. Max nom area shall be 87 sq in. with the length not to exceed 9 in. and the width not to exceed 9-11/16 in. Aggregate damper openings shall not exceed 44 sq in. per 100 sq ft of ceiling area. Damper shall be installed in combination with one of the fan models described in, and in accordance with, the manufacturer's installation instructions provided with the damper. A plastic grille (Item 9) shall be installed in accordance with installation instructions.
BROAN-NUTONE L L C — Model RDMWT

Feedback

MKM
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Certification: 09.13.2024 BID SET

Consultant Logo:

Key Plan:

THE LANDING 3.0

NEW CONSTRUCTION
555 S. HARRISON ST.
Fort Wayne, Indiana 46802

REVISION		
No.	Date	Revision

DRAWING CONTENTS:
UL ASSEMBLIES (P546)

ISSUE DATE: 09.13.2024
PROJECT NO. 23029

DRAWING NO.
G-121c

Plot Time/Date: 9/12/2024 2:48:17 PM
Drawing Name: Template.rte

UL L546 SPECIFICATIONS (PG. 2)

4M. **Alternate Ceiling Damper*** — Ceiling damper & fan assembly for use with min 18 in. deep trusses. Max nom area shall be 87 sq in. with the length not to exceed 9 in. and the width not to exceed 9-11/16 in. Aggregate damper openings shall not exceed 44 sq in. per 100 sq ft of ceiling area. Damper shall be installed in combination with one of the fan models described in, and in accordance with, the manufacturer's installation instructions provided with the damper. A plastic grille (Item 9) shall be installed in accordance with installation instructions.
BROAN-NUTONE L L C — Model RDMWT2

4N. **Alternate Ceiling Damper*** — (Optional, To be used with Air Duct Item 3) — For use with min 18 in. deep trusses. Max nom 21 in. long by 18 in. wide, fabricated from galvanized steel. Plenum box max size nom 21 in. long by 18 in. wide by 14 in. high (inner dimension) fabricated from either galvanized steel or min 1 in. thick Listed Duct Board bearing the UL Listing Marking having a min R-Value of 4.3. Installed in accordance with the instructions provided by the manufacturer. Max damper openings not to exceed 180 sq in. per 100 sq ft of ceiling area.
GREENHECK FAN CORP — Model CRD-1WT

4O. **Alternate Ceiling Damper*** — (Optional, To be used with Air Duct Item 3) — For use with min 18 in. deep trusses. Max nom 12 in. long by 12 in. wide with an 8 in. diameter damper, fabricated from galvanized steel. Installed in accordance with the instructions provided by the manufacturer. Max damper openings not to exceed 72 sq in. per 100 sq ft of ceiling area. .
GREENHECK FAN CORP — Model CRD-2WT

4P. **Alternate Ceiling Damper*** — (Optional. To be used with Air Duct, Item 3) — For use with min 18 in. deep trusses. Max nom 18 in. long by 18 in. wide, fabricated from galvanized steel. Installed in accordance with the instructions provided by the manufacturer. Max damper openings not to exceed 162 sq in. per 100 sq ft of ceiling area.
RUSKIN COMPANY — Model CFD7T, CFD7T-END-BT, CFD7T-90-BT, CFD7T-ST-BT, CFD7T-SB, CFD7T-R6-DB, or CFD7T-IB6

4Q. **Alternate Ceiling Damper*** — (Optional. To be used with Air Duct, Item 3) — For use with min 18 in. deep trusses. Max 8 in. diameter damper, fabricated from galvanized steel. Installed in accordance with the instructions provided by the manufacturer. Max damper openings not to exceed 25 sq in. per 100 sq ft of ceiling area.
RUSKIN COMPANY — Model CFDR7T

4R. **Alternate Ceiling Damper*** — (Optional, to be used with Air Duct Item 3) For use with min 18 in. deep trusses. Max nom 11-1/8 in. long by 13-5/8 in. wide, fabricated from galvanized steel. Installed in accordance with the instructions provided by the manufacturer. Max damper openings not to exceed 76 sq in. per 100 sq ft of ceiling area.
GREENHECK FAN CORP — Model CRD-310WT

4S. **Damper*** — (Optional, to be used with Air Duct Item 3) For use with min 18 in. deep trusses. Max nom 12-3/8 in. long by 14-1/2 in. wide, fabricated from galvanized steel. Installed in accordance with the instructions provided by the manufacturer. Max damper openings not to exceed 90 sq in. per 100 sq ft of ceiling area.
GREENHECK FAN CORP — Model CRD-320WT

4T. **Alternate Ceiling Damper*** — (Optional, to be used with Air Duct Item 3) For use with min 18 in. deep trusses. Max 12 in. diameter damper within max 15 in. by 15 in. register box with max 12 in. by 12 in. register opening fabricated from galvanized steel. Aggregate area of the register opening(s) through the ceiling membrane shall not exceed 72 sq. in. per 100 sq. ft. of ceiling area. Damper assembly installed in accordance with the manufacturer's installation instructions.
RUSKIN COMPANY — Model CFD7T-SR

4U. **Alternate Ceiling Damper*** - (Optional, to be used with Air Duct Item 3) For use with min 18 in. deep trusses. Maximum 20 in. long by 18 in. wide by 2-1/8 in. high, fabricated from galvanized steel. Plenum box maximum size nom. 21 in. long by 18 in. wide by 16 in. high fabricated from either galvanized steel or Classified Air Duct Materials bearing the UL Class 0 or Class 1 rigid air duct material. Installed in accordance with the instructions provided by the manufacturer. Max damper openings not to exceed 180 sq in. per 100 sq ft of ceiling area.

NAILOR INDUSTRIES INC — Types 0755, 0755A, 0756, 0756D, 0757, 0757D, 0757FP, 0757DFP, 0763

SAFE AIR DOWCO — 0455, 0455A, 0456, 0456D, 0457, 0457D, 0457-DB, 0457-CB, 0463-FB, 0457-EB, 0463-GB, 0463

4V. **Alternate Ceiling Damper*** — (Optional, to be used with Air Duct Item 3) For use with min 18 in. deep trusses. Max nom 10-3/8 in. long by 10-3/8 in. wide, fabricated from galvanized steel. Installed in accordance with the instructions provided by the manufacturer. Max damper openings not to exceed 54 sq in. per 100 sq ft of ceiling area.

GREENHECK FAN CORP — Model CRD-300WT

5. **Batts and Blankets*** — (Optional with Items 7 and 7B; Required with Item 7A) — Glass fiber or mineral wool insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance. When the resilient channels (Item 6) or furring channels (Item 6A, 6O) are spaced 16 in. OC, the insulation shall be a max of 3-1/2 in. thick, and shall be secured against the subflooring with staples at 12 in. OC or held suspended in the concealed space with 0.090 in. diam galv steel wires attached to the wood trusses at 12 in. OC. When the resilient channels (Item 6) or furring channels (Item 6A, 6O) are spaced a max of 12 in. OC or when the Steel Framing Members (Item 6B) are used, there is no limit in the overall thickness of insulation, and the insulation can be secured against the subflooring, held suspended in the concealed space or draped over the resilient or furring channels (or Steel Framing Members) and gypsum panel membrane. When **Steel Framing Members** (Item 6C) are used, max 3-1/2 in. thick insulation shall be draped over the furring channels (Item 6Ca) and gypsum board ceiling membrane, and friction-fitted between trusses and Steel Framing Members (Item 6Cd). The finished rating has only been determined when the insulation is secured to the subflooring.

5A. **Fiber, Sprayed*** — (Dry Dense Packed 100% Borate Formulation) — As an alternate to Item 5 — When used, the resilient channel and gypsum board attachment is modified as specified in Items 6 and 7 and wire mesh (Item 10) shall be attached to the furring channels to facilitate installation of the material. The finished rating when Fiber, Sprayed is used has not been determined. The fiber is applied without water or adhesive at a nominal dry density of 3.5 lb/ft^3, in accordance with the application instructions supplied with the product. When Item 5A (Fiber, Sprayed) is used, two layers of gypsum board required as described in Item 7. Not evaluated for use with Items 6B, 6C or 6D.
APPLEGATE GREENFIBER ACQUISITION LLC — INS735, INS745, INS750LD, INS765LD, INS773LD, Insulmax, & SANCTUARY to be used with dry application only.

5B. **Fiber, Sprayed*** — (Loose Fill 100% Borate Formulation) — As an alternate to Items 5 and 5A — The finished rating when Fiber, Sprayed is used has not been determined. The fiber is applied without water or adhesive at a minimum dry density of 0.5 lb/ft^3 and at a max thickness of 3-1/2 in., in accordance with the application instructions supplied with the product. Wire mesh (Item 10) shall be attached to the furring channels to facilitate installation of the material. When Item 5B (Fiber, Sprayed) is used, two layers of gypsum board required as described in Item 7. Not evaluated for use with Items 6B, 6C or 6D.
APPLEGATE GREENFIBER ACQUISITION LLC — INS735, INS745, INS750LD, INS765LD, INS773LD, Insulmax, & SANCTUARY to be used with dry application only.

5C. **Cavity Insulation - Batts and Blankets* or Fiber, Sprayed*** — (Required for Item 7C, As described above in Items 5 through 5B) — Min. 3-1/2 in thick with no limit on maximum thickness fitted in the concealed space, draped over the resilient channel (Item 6I)/gypsum board (Item 7C) ceiling membrane.

6. **Resilient Channels** — Resilient channels, formed of 25 MSG thick galv steel, spaced 16 in. OC perpendicular to trusses. When insulation (Items 5, 5A, 5B) is draped over the resilient channel/gypsum board ceiling membrane, the spacing shall be reduced to 12 in. OC. Channels secured to each truss with 1-1/4 in. long Type S bugle head steel screws. Channels overlapped 4 in. at splices. Two channels, spaced 6 in OC, oriented opposite each gypsum board end joint as shown in the above illustration. Additional channels shall extend 6 in beyond each side edge of board.

6A. **Steel Framing Members*** — (Not Shown) — As an alternate to Item 6, furring channels and Steel Framing Members* as described below:
a. **Furring Channels** — Formed of No. 25 MSG galv steel, 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced 16 in. OC perpendicular to trusses. When batt insulation (Items 5) is draped over the resilient channel/gypsum board ceiling membrane, the resilient channel spacing shall be reduced to 12 in. OC. Channels secured to trusses as described in Item b. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap.

b. **Steel Framing Members*** — Used to attach furring channels (Item a) to trusses (Item 2). Clips spaced 48 in. OC. RSIC-1 and RSIC-1 (2.75) clips secured to alternating trusses with No. 8 x 2-1/2 in. coarse drywall screw through the center grommet. RSIC-Si-X secured with No. 10 x 3-1/2 in. screws. RSIC-V and RSIC-V (2.75) clips secured to alternating trusses with No. 8 x 1-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips. RSIC-1, RSIC-Si-X, and RSIC-V clips for use with 2-9/16 in. wide furring channels. RSIC-1 (2.75) and RSIC-V (2.75) clips for use with 2-23/32 in. wide furring channels. Adjoining channels are overlapped as described in Item a. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping No. 6 framing screws, min 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Additional clips required to hold furring channel that supports the gypsum board butt joints, as described in Item 7.
PAC INTERNATIONAL L L C — Types RSIC-1, RSIC-V, RSIC-Si-X, RSIC-1 (2.75), RSIC-V (2.75).

6B. **Alternate Steel Framing Members** — (Not Shown) — As an alternate to Items 6 and 6A, main runners, cross tees, cross channels and wall angle as listed below.
a. **Main Runners** — Nom 10 or 12 ft long, 15/16 in. or 1-1/2 in. wide face, spaced 4 ft. OC. Main runners suspended by min 12 SWG galv steel hanger wires spaced 48 in. OC. Hanger wires to be located adjacent to main runner/cross tee intersections. Hanger wires wrapped and twist-tied on 16d nails driven in to side of trusses at least 5 in. above the bottom face.

b. **Cross Tees or Channels** — Nom 4 ft long cross tees, with 15/16 in. or 1-1/2 in. wide face, or nom 4 ft long cross channels, with 1-1/2 in. wide face, either spaced 16 in. OC, installed perpendicular to the main runners. Additional cross tees or channels used 8 in. from each side of butted gypsum board end joints. The cross tees or channels may be riveted or screw-attached to the wall angle or channel to facilitate the ceiling installation.

c. **Wall Angle or Channel** — Painted or galv steel angle with 1 in. legs or channel with 1 in. legs, 1-9/16 in. deep attached to walls at perimeter of ceiling with fasteners 16 in. OC. To support steel framing member ends and for screw-attachment of the gypsum panel.
CGC INC — Type DGL or RX.

USG INTERIORS LLC — Type DGL or RX.

6C. **Steel Framing Members*** — (Not Shown) — As an alternate to Items 6, 6A and 6B.
a. **Furring Channels** — Hat-shaped furring channels, 7/8 in. deep by 2-5/8 in. wide at the base and 1-1/4 in. wide at the face, formed from No. 25 ga. galv steel, spaced max. 16 in. OC perpendicular to trusses and Cold Rolled Channels (Item 6Cb). Furring channels secured to Cold Rolled Channels at every intersection with a 1/2 in. pan head self-drilling screw through each furring channel leg. Ends of adjoining channels overlapped 4 in. and tied together with two double strand No. 18 SWG galv steel wire ties, one at each end of overlap. Supplemental furring channels at base layer and outer layer gypsum board butt joints are not required. Batts and Blankets draped over furring channels as described in Item 5. Two layers of gypsum board attached to furring channels as described in Item 7.

b. **Cold Rolled Channels** — 1-1/2 in. by 1/2 in., formed from No. 16 ga. galv steel, positioned vertically and parallel to trusses, friction-fitted into the channel caddy on the Steel Framing Members (Item 6Cd). Adjoining lengths of cold rolled channels lapped min. 6 in. and wire-tied together with two double strand 18 SWG galv steel wire ties, one at each end of overlap.

c. **Blocking** — Where truss design does not permit direct, full contact of the hanger bracket, a piece of nominal 2 by 4 in. lumber (blocking), min. 6 in. long to permit full contact of the hanger bracket, to be secured vertically to the side of the truss (Item 2) at the top and bottom of the blocking at each Steel Framing Member (Item 6Cd) location.

d. **Steel Framing Members*** — Hangers spaced 48 in. OC. max along truss, and secured to the Blocking (Item 6Cc) on alternating trusses with a single 5/16 in. by 2 in. hex head lag bolt or four #6 1-1/4 in. drywall screws through mounting hole(s) on the hanger bracket. The two 1/4 in. long steel teeth on the hanger are embedded in the side of the blocking. Hanger positioned on blocking and leveling bolt height adjusted such that furring channels are flush with bottom of trusses before gypsum board installation. Spring gauge of hanger chosen per manufacturer\'s instructions.
KINETICS NOISE CONTROL INC — Type ICW.

6D. **Steel Framing Members*** — (Not Shown) — As an alternate to Items 6, 6A, 6B and 6C.
a. **Furring Channels** — Formed of No. 25 MSG galv steel, 2-3/8 in. wide by 7/8 in. deep, spaced 16 in. OC perpendicular to wood structural members. When insulation, Items 5 or 5A is applied over the furring channel/gypsum panel ceiling membrane, the furring channel spacing shall be reduced to 12 in. OC. Channels secured to trusses as described in Item b. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galv steel wire near each end of overlap.

b. **Steel Framing Members*** — Used to attach furring channels (Item a) to trusses (Item 2). Clips spaced 48 in. OC, and secured to the bottom chord of alternating trusses with two No. 8 x 2-1/2 in. course drywall screws, one through the hole at each end of the clip. When insulation, Items 5 or 5A is applied over the furring channel/gypsum panel ceiling membrane, the clip spacing shall be reduced to 24 in. OC and secured to consecutive trusses. Furring channels are friction fitted into clips. Adjoining channels are overlapped as described in Item a. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping No. 6 framing screws, min 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Additional clips required to hold furring channel that supports the gypsum board butt joints, as described in Item 7. Two layers of gypsum board required as described in Item 7. Not evaluated for use with Item 5B.
KINETICS NOISE CONTROL INC — Type Isomax.

6E. **Steel Framing Members*** — (Optional, Not Shown) — Used as an alternate method to attach min. 1/2 in. deep resilient channels (Item 6) to wood trusses (Item 2). Resilient channels are friction fitted into clips, and then clips are secured to the bottom chord of each wood truss with a min. 1-3/4 in. long Type S bugle head steel screw through the center hole of the clip and the resilient channel flange. Adjoining resilient channels are overlapped 4 in. under trusses. The clip flange is opened slightly to accommodate the two overlapped channels. Additional clips required to hold resilient channel that supports the gypsum board butt joints, as described in Item 7.
KEENE BUILDING PRODUCTS CO INC — Type RC Assurance.

6F. **Steel Framing Members** — (Not Shown) — As an alternate to Item 6, furring channels and Steel Framing Members* as described below:
a. **Furring Channels** — Formed of No. 25 MSG galv steel, 2-3/8 in. wide by 7/8 in. deep, spaced 16 in. OC perpendicular to trusses. When batt insulation (Items 5) is draped over the resilient channel/gypsum board ceiling membrane, the resilient channel spacing shall be reduced to 12 in. OC. Channels secured to trusses as described in Item b. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap.

b. **Steel Framing Members*** — Used to attach furring channels (Item a) to trusses (Item 2). Clips spaced 48 in. OC. GenieClips secured to alternating joists with No. 8 x 2-1/2 in. coarse drywall screw through the center grommet. When insulation, Items 5 is applied over the furring channel/gypsum panel ceiling membrane, the clip spacing shall be reduced to 24 in. OC and secured to consecutive trusses. Furring channels are friction fitted into clips. Adjoining channels are overlapped as described in Item a. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping No. 6 framing screws, min 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Additional clips required to hold furring channel that supports the gypsum board butt joints, as described in Item 7. Not evaluated for use with Item 5A or 5B.
PLITEQ INC — Type GENIECLIP

6G. **Alternate Steel Framing Members*** — (Not Shown) — As an alternate to items 6-6F, furring channels and Steel Framing Members as described below.
a. **Furring Channels** — Formed of No. 25 MSG galv steel, 2-5/8 in. wide by 7/8 in deep, spaced 16 in OC, perpendicular to trusses. When batt insulation (Items 5) is draped over the resilient channel/gypsum board ceiling membrane, the resilient channel spacing shall be reduced to 12 in. OC. Channels secured to trusses as described in Item b.

b. **Steel Framing Members*** — Used to attach furring channels (Item a) to trusses (Item 2). Clips spaced at 48" OC and secured to the bottom of the joists with one 2 in. Coarse Drywall Screw with 1 in. diam washer through the center hole. Furring channels are then friction fitted into clips. Ends of channels are overlapped 6" and tied together with double strand of No. 18 AWG galvanized steel wire Additional clips are required to hold the Gypsum Butt joints as described in item 7B.
STUDCO BUILDING SYSTEMS — RESILMOUNT Sound Isolation Clips - Type A237 or A237R

6H. **Alternate Steel Framing Members*** — (Not Shown) — As an alternate to items 6-6G, furring channels and Steel Framing Members as described below.
a. **Furring Channels** — Formed of No. 25 MSG galv steel, 2-1/2 in. wide by 7/8 in deep, spaced 16 in OC, perpendicular to trusses. When batt insulation (Items 5) is draped over the resilient channel/gypsum board ceiling membrane, the resilient channel spacing shall be reduced to 12 in. OC. Channels secured to trusses as described in Item b.

b. **Steel Framing Members*** — Used to attach furring channels (Item a) to trusses (Item 2). Clips spaced at 48" OC and secured to the bottom of the trusses with one 2-1/2 in. Coarse Drywall Screw with 1 in. diam washer through the center hole. Furring channels are then friction fitted into clips. Ends of channels are overlapped 6" and tied together with double strand of No. 18 AWG galvanized steel wire Additional clips are required to hold the Gypsum Butt joints as described in item 7B.
REGUPOL AMERICA — Type SonusClip

6I. **Resilient Channels** — For Use With Item 7C - Formed from min 25 MSG galv. steel installed perpendicular to trusses and spaced 16 in. OC. Channels secured to each truss with 1-5/8 in. long Type S bugle head steel screws. Channels overlapped 4 in. at splices. Two channels, spaced 6 in. OC, oriented opposite each gypsum panel end joint. Additional channels shall extend min 6 in. beyond each side edge of panel. Insulation, Item 5C is applied over the resilient channel/gypsum panel ceiling membrane.

6J. **Steel Framing Members*** — (Optional, Not Shown) — As an alternate to Item 6.
a. **Furring Channels** — Formed of No. 25 MSG galv steel, nominal 2-1/2 in. wide by 7/8 in. deep, spaced as indicated in Item 6, perpendicular to the trusses. Channels secured to Cold Rolled Channels at every intersection with a 3/4 in. TEK screw through each furring channel leg. Ends of adjoining channels overlapped 12 in. and fastened together with two double strand No. 18 SWG galv steel wire ties, one at each end of overlap, or with two 3/4 in. TEK screws in each leg of the overlap section. Two furring channels used at end joints of gypsum board (Item 7), each extending a min of 6 in. beyond both side edges of the board.

b. **Cold Rolled Channels** — 1-1/2 in. by 1/2 in., formed from No. 16 ga. galv steel, positioned vertically and parallel to trusses, friction-fitted into the channel caddy on the Steel Framing Members (Item 6Jd) and secured with two 3/4 in. TEK screws. Adjoining lengths of cold rolled channels lapped min. 12 in. and secured along bottom legs with four 3/4 in. TEK screws and wire-tied together with two double strand 18 SWG galv steel wire ties, one at each end of overlap.

c. **Blocking** — Where truss design does not permit direct, full contact of the hanger bracket, a piece of nominal 2 by 4 in. lumber (blocking), min. 12 in. long to permit full contact of the hanger bracket, to be secured vertically to the side of the trusses at the top and bottom of the blocking at each Steel Framing Member (Item 6Jd) location with 16d nails or minimum 2-1/2 in. screws. d. Steel Framing Members* — Spaced 48 in. OC. max along truss, and secured to the truss on alternating trusses with two, #10 x 1-1/2 in. screws through mounting holes on the hanger bracket.
PAC INTERNATIONAL L L C — Type RSIC-SI-CRC EZ Clip

6K. **Steel Framing Members*** — (Not Shown) — As an alternate to Item 6.
a. **Furring Channels** — Formed of No. 25 MSG galv steel, nominal 2-1/2 in. wide by 7/8 in. deep, spaced as indicated in Item 6, perpendicular to trusses and friction fit into Steel Framing Members (Item 6Kc). Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap or with two TEK screws along each leg of the 6 in. overlap. Two furring channels used at end joints of gypsum board (Item 7). Butt joint channels held in place by strong back channels placed upside down, on top of, and running perpendicular to primary furring channels, extending 6 in. longer than length of gypsum side joint. Strong back channels spaced maximum 48 in. OC. Strong back channels secured to every intersection of primary furring channels with four 7/16 in. pan head screws, two along each of the legs at intersections. Butt joint channels run perpendicular to strong back channels and shall be minimum 6 in. longer than length of joint, secured to strong back channels with 7/16 in. pan head screws, two along each of the legs at intersection with strong back channels.

b. **Blocking** — Where truss design does not permit direct, full contact of the hanger bracket, a piece of nominal 2 by 4 in. lumber (blocking), min. 12 in. long to permit full contact of the hanger bracket, to be secured vertically to the side of the trusses at the top and bottom of the blocking at each Steel Framing Member (Item 6Kc) location with 16d nails or minimum 2-1/2 in. screws.

c. **Steel Framing Members*** — Used to attach furring channels (Item 6Ka) to trusses. Clips spaced 48 in. OC and secured along truss webs at each furring channel intersection with min. 3/4 in. long self-drilling #10 x 1-1/2 in. screws through each of the provided hole locations. Furring channels are friction fitted into clips.
PAC INTERNATIONAL L L C — Type RSIC-S1-1 Ultra

6L. **Steel Framing Members*** — (Optional - Not Shown) — Used to attach resilient channels (Item 6) to trusses (Item 2). Clips spaced 48 in. OC and secured to trusses with one No. 8 x 2-1/2 in. coarse drywall screw through center grommet hole. Channels secured to clips with one #10 x 1/2 in. pan-head self-drilling screw. Ends of adjoining channels overlapped 6 in. and secured together with two #8 15 x 1/2 in. Philips Modified screws spaced 2-1/2 in. from the center of the overlap. Gypsum board butt joints require additional resilient channels spaced 1-1/2 in. from the butt joint on either side. One edge of the extra channels will extend to an adjacent truss where it is secured with a clip.
KEENE BUILDING PRODUCTS CO INC — Type RC+ Assurance Clip

6M. **Steel Framing Members*** — (Optional, Not Shown) — Used as an alternate method to attach resilient channels to structural members. A resilient sound isolation accessory shall be used at each attachment point of the resilient channels and spaced max 24 in. O.C. Channel ends butted and centered under the structural members and attached with one accessory at each end. Additional accessories used to hold resilient channels that support the gypsum board end joints. The accessory envelops the mounting edge of the resilient channel. The accessory and resilient channel are fastened to the structural members with the screws supplied with the accessory and per the accessory manufacturer's installation instructions. Gypsum Board butt joints staggered minimum 24 in. OC and Gypsum Board screws spaced 8 in. OC when used.
PAC INTERNATIONAL L L C — Type RC-1 Boost

6N. **Resilient Channels** — For use with **American Gypsum Co. Type AG-C gypsum board only**. Resilient channels, formed of 25 MSG thick galv steel, spaced 16 in. OC perpendicular to trusses. When insulation (Items 5, 5A, 5B) is applied over the resilient channel/gypsum board ceiling membrane, the spacing may remain at 16 in. OC. Channels secured to each truss with 1-1/4 in. long Type S bugle head steel screws. Channels overlapped 4 in. at splices. Two channels, spaced 6 in OC, oriented opposite each gypsum board end joint as shown in the above illustration. Additional channels shall extend 6 in beyond each side edge of board.

6O. **Steel Framing Members*** — (Optional, Not Shown, As an alternate to Item 6) — Furring channels and Steel Framing Members as described below:

a. **Furring Channels** — Formed of No. 25 MSG galv steel. 2-23/32 in. wide by 7/8 in. When there is no insulation installed in the concealed space the furring channels are spaced 24 in. OC max perpendicular to trusses. When insulation (Item 5) is secured to the underside of the subfloor the furring channels are spaced 16 in. OC max. When insulation (Item 5) is applied over the furring channel/gypsum panel ceiling membrane, the furring channels are spaced 12 in. OC max. Channels secured to trusses as described in Item 6Ob. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping #6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Additional clips required to hold furring channel that supports the wallboard butt joints, as described in Item 7.

b. **Steel Framing Members*** — Used to attach furring channels (Item 6Oa) to trusses (Item 2). Clips spaced 48 in. OC max with No. 8 x 2-1/2 in. course drywall screw through the center grommet. Furring channels are friction fitted into clips.

CLARKDIETRICH BUILDING SYSTEMS — Type ClarkDietrich Sound Clips

7. **Gypsum Board*** — Nom 5/8 in. thick, 48 in. wide gypsum board. When resilient channels (Item 6) are used, gypsum board installed with long dimension perpendicular to resilient channels. Gypsum board secured with 1 in. long Type S bugle head screws spaced 12 in. OC and located a min of 1/2 in. from side joints and 3 in. from end joints. End joints secured to both resilient channels as shown in end joint detail. When batt insulation (Item 5) is draped over the resilient channel/gypsum board ceiling membrane, screws spacing shall be 8 in. OC. When **Steel Framing Members*** (Item 6A, 6F, 6O) are used, gypsum board installed with long dimension perpendicular to furring channels and side joints of sheet located beneath joists. Gypsum board secured to furring channels with 1 in. long Type S bugle head screws spaced 12 in. OC in the field. Butted end joints shall be staggered min 2 ft within the assembly, and occur between the continuous furring channels. At butted end joints, each end of each gypsum board shall be supported by a single length of furring channel equal to the width of the gypsum board plus 6 in. on each end. The two furring channels shall be spaced approximately 3-1/2 in. OC and be attached to underside of the joist with one clip at each end of the channel. Screw spacing along the end joint shall be 8 in. OC.
When **Steel Framing Members** (Item 6J) are used, nom 5/8 in. thick, 4 ft wide gypsum board, installed as described in Item 7. Adjacent butt joints staggered minimum 48 in. OC.

When **Steel Framing Members** (Item 6K) are used, nom 5/8 in. thick, 4 ft wide gypsum board, installed as described in Item 7. Butt joints staggered minimum 24 in. OC.

AMERICAN GYPSUM CO — Type AG-C

CGC INC — Types C, IP-X2, IPC-AR

CERTAINTEED GYPSUM INC — Type LGFC-C/A

GEORGIA-PACIFIC GYPSUM L L C — Types 5, DAPC, TG-C

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type C

UNITED STATES GYPSUM CO — Types C, IP-X2, IPC-AR

USG BORAL DRYWALL SFZ LLC — Type C

USG MEXICO S A DE C V — Types C, IP-X2, IPC-AR

7A. **Gypsum Board*** — Nom 5/8 in. thick, 48 in. wide gypsum board, installed with long dimension perpendicular to resilient channels. Gypsum board secured with 1-1/8 in. long Type S bugle head screws spaced 8 in. OC and located a min of 1/2 in. from side joints and 3 in. from the end joints. End joints secured to both resilient channels as shown in end joint detail. When Item 7A is used, the insulation must be used and must be draped over the resilient channel/gypsum board.
NATIONAL GYPSUM CO — Types eXP-C, FSW-G, FSW-C, FSK-G, FSK-C

7B. **Gypsum Board*** — Nom 5/8 in. thick, 48 in. wide gypsum panels. When resilient channels (Item 6) are used, gypsum panels installed with long dimension perpendicular to resilient channels. Gypsum panels secured with 1 in. long Type S bugle head steel screws spaced 12 in. OC and located a min of 1/2 in. from side joints and 3 in. from the end joints. When insulation (Items 5 or 5A) is applied over the resilient channel/gypsum panel ceiling membrane screw spacing shall be reduced to 8 in. OC. End joints secured to both resilient channels as shown in end joint detail. When **Steel Framing Members** (Item 6A, 6O) are used, gypsum panels installed with long dimensions perpendicular to furring channels. Panels attached to the furring channels using 1 in. long Type S bugle-head steel screws spaced 8 in. OC along butted end joints and in the field of the panel. Butted end joints shall be staggered min. 2 ft within the assembly, and occur midway between the continuous furring channels. Each end of each gypsum panel shall be supported by a single length of furring channel equal to the width of the gypsum panel plus 6 in. on each end. The two support furring channels shall be spaced approximately 3-1/2 in. OC, and be attached to underside of the truss with one clip at each end of the channel. When **Steel Framing Members*** (Item 6B) are used, gypsum panels installed with long dimension perpendicular to cross tees with side joints centered along main runners and end joints centered along cross tees. Panels fastened to cross tees with 1 in. long . Type S bugle-head screws spaced in the field and 8 in. OC along end joints. Panels fastened to main runners with 1 in. long . Type S bugle-head screws spaced midway between cross tees. Screws along sides and ends of panels spaced 3/8 to 1/2 in. from panel edge. End joints of panels shall be staggered with spacing between joints on adjacent panels not less than 4 2 ft OC. When **Fiber, Sprayed** (Items 5A or 5B) is used, two layers of nom 5/8 in. thick, 4 ft wide gypsum board are installed with long dimensions perpendicular to furring channels. Base layer gypsum board secured with 1 in. long Type S bugle head steel screws spaced 12 in. OC and located a min of 1/2 in. from side joints and 3 in. from the end joints. End joints secured to both resilient channels as shown in end joint detail. Outer layer gypsum board secured with 1-5/8 in. long Type S bugle head steel screws spaced 12 in. OC and located a min of 1/2 in. from side joints and 3 in. from the end joints. Outer layer shall be finished as described in Item 8. When both **Steel Framing Members** (Item 6A) and **Fiber, Sprayed** (Items 5A or 5B) are used, furring channels spaced 12 in. OC and two layers of nom 5/8 in. thick, 4 ft wide gypsum board are installed with long dimension perpendicular to furring channels. Base layer secured to furring channels with nom 1 in. long Type S bugle head screws spaced 8 in. OC along butted end joints and in the field of the board. Butted end joints shall be staggered min. 2 ft within the assembly, and occur midway between the continuous furring channels. Each end of each gypsum board shall be supported by a single length of furring channel equal to the width of the gypsum board plus 6 in. on each end. The two support furring channels shall be spaced approximately 3-1/2 in. OC, and be attached to the underside of the truss with one clip at each end of the channel. Outer layer secured to furring channels using 1-5/8 in. long Type S screws spaced 8 in. OC and 1-1/2 in. from the end joint. Butted end joints to be offset a min. of 8 in. from base layer end joints. Butted side joints of outer layer to be offset min. 18 in. from butted side joints of base layer. When **Steel Framing Members** (Item 6C) are used, two layers of nom 5/8 in. thick, 4 ft wide gypsum board are installed with long dimensions perpendicular to furring channels (Item 6Ca). Base layer attached to the furring channels using 1 in. long Type S bugle head steel screws spaced 8 in. OC along butted end joints and 12 in. OC in the field of the board. Butted end joints centered on the continuous furring channels. Butted base layer end joints to be offset a min of 16 in. in adjacent courses. Outer layer attached to the furring channels using 1-5/8 in. long Type S bugle head steel screws spaced 8 in. OC at butted end joints and 12 in. OC in the field. Butted end joints centered on the continuous furring channels and offset a min of 16 in. from butted end joints of base layer. Butted side joints of outer layer to be offset min 16 in. from butted side joints of base layer. When **Steel Framing Members** (Item 6D) are used, two layers of nom 5/8 in. thick, 4 ft wide gypsum board are installed with long dimensions perpendicular to furring channels. Base layer attached to the furring channels using 1 in. long Type S bugle-head steel screws spaced 12 in. OC in the field of the board. Butted end joints shall be staggered min 2 ft. within the assembly, and occur midway between the continuous furring channels. Each end of each gypsum board shall be supported by a single length of furring channel equal to the width of the gypsum board plus 6 in. on each end. The two furring channels shall be spaced approximately 4 in. OC, and be attached to underside of the truss with one Isomax clip at each end of the channel. Screw spacing along the gypsum board butt joint shall be 8 in. OC. Outer layer attached to the furring channels using 1-5/8 in. long Type S bugle-head steel screws spaced 12 in. OC in the field. The end of the outer layer boards at the butt joint shall be attached to the base layer boards with 1-5/8 in. long Type G screws spaced 8 in. OC and 1-1/2 in. from the end joint. Butted end joints to be offset a min of 8 in. from base layer end joints. Butted side joints of outer layer to be offset min 18 in. from butted side joints of base layer. Outer layer shall be finished as described in Item 8. When **Steel Framing Members** (Item 6F) are used, two layers of nom 5/8 in. thick, 4 ft wide are installed with long dimensions perpendicular to furring channels. Gypsum board secured to furring channels using 1 in. long No. 6 Type S bugle-head steel screws spaced 12 in. OC in the field of the board. Butted end joints shall be staggered minimum 2 ft. within the assembly. Additional furring channels constructed as per Item 6F shall be used to support each end of each gypsum board. These additional furring channels shall be attached to underside of the truss with Genie clips as described in Item 6F. Screw spacing along the gypsum board butt joint shall be 8 in. OC. Outer layer attached to the furring channels using 1-5/8 in. long No. 6 Type S bugle-head steel screws spaced 12 in. OC in the field. The outer layer boards at the butt joint shall be attached to the base layer boards with No. 10, 1-1/2 in. long drywall screws spaced 8 in. OC and 1-1/2 in. from the end joint. Butted end joints to be offset a min of 24 in. from base layer end joints. Butted side joints of outer layer to be offset min 16 in. from butted side joints of base layer. When **Steel Framing Members** (Item 6G) are used, one layer of nom 5/8 in. thick, 4 ft wide gypsum board is installed with long dimensions perpendicular to furring channels. Gypsum board secured to furring channels with nom 1 in. long Type S bugle-head steel screws spaced 8 in. OC in the field of the board. Gypsum board butted end joints shall be staggered minimum 48 in. and centered over main furring channels. At the gypsum board butt joints, each end of each gypsum board shall be supported by a single length of furring channel equal to the width of the gypsum board plus 3 in. on each end. The two support furring channels shall be spaced approximately 3 in. in from joint. Screw spacing along the gypsum board butt joint and along both additional channels shall be 8 in. OC. Additional screws shall be placed in the adjacent section of gypsum board into the aforementioned 3 in. extension of the extra butt joint channels as well as into the main channel that runs between. Butt joint furring channels shall be attached with one RESILMOUNT Sound Isolation Clip at each end of the channel. When **Steel Framing Members** (Item 6H) are used, one layer of nom 5/8 in. thick, 4 ft wide gypsum board is installed with long dimensions perpendicular to furring channels. Gypsum board secured to furring channels with nom 1 in. long Type S bugle-head steel screws spaced 8 in. OC in the field of the board. Gypsum board butted end joints shall be staggered minimum 48 in. and centered over main furring channels. At the gypsum board butt joints, an additional single length of furring channel shall be installed and be spaced approximately 3 in. from the butt joint (6 in. from the continuous furring channels) to support the floating end of the gypsum board. Each of these shorter sections of furring channel shall extend one truss beyond the width of the gypsum panel and be attached to the adjacent trusses with one SonusClip at every truss involved with the butt joint.

CERTAINTEED GYPSUM INC — Type C

CGC INC — Types C, IP-X2, IPC-AR

CERTAINTEED GYPSUM INC — Type LGFC-C/A

GEORGIA-PACIFIC GYPSUM L L C — Types 5, DAPC, TG-C

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type C

UNITED STATES GYPSUM CO — Types C, IP-X2, IPC-AR

USG BORAL DRYWALL SFZ LLC — Type C

USG MEXICO S A DE C V — Types C, IP-X2, IPC-AR

7C. **Gypsum Board*** — (As an alternative to Items 7 and 7B, For use with Items 5C and 6I) — Nom 5/8 in. thick, 48 in. wide gypsum board, installed and secured as described in Items 7 and 7B but with max screw spacing 8 in. OC. When used with insulation (Batts and Blankets* or Fiber Sprayed*) that is installed over the resilient channel/Gypsum Board* ceiling membrane, the resilient channels may remain at 16 in. OC and not need to be reduced to 12 in. OC.
CGC INC — Type ULIX

UNITED STATES GYPSUM CO — ULIX

7D. **Gypsum Board*** — (As an alternative to Items 7, 7A, 7B and 7C) — For use when no insulation is used. Nom 5/8 in. thick, 48 in. wide gypsum board, installed as described in item 7 with resilient channels (Item 6) spaced 24 in OC.

AMERICAN GYPSUM CO — Type AG-C

8. **Finishing System** — (Not Shown) — Vinyl, dry or premixed joint compound, applied in two coats to joints and screw-heads. Nom 2 in. wide paper tape embedded in first layer of compound over all joints. As an alternate, nom 3/32 in. thick veneer plaster may be applied to the entire surface of gypsum board.

9. **Grille** — Grille, installed in accordance with the installation instructions provided with the ceiling damper.

MKM
architecture + design

435 E. Brackenridge St.
Fort Wayne, Indiana 46802
p 260.422.0783
www.MKMdesign.com

Certification:
09.13.2024
BID SET

ZACHARY R. BENEDICT
No. AR11200057

Consultant Logo:

Key Plan:

THE LANDING 3.0

NEW CONSTRUCTION
555 S. HARRISON ST.
Fort Wayne, Indiana 46802

REVISION		
No.	**Date**	**Revision**

DRAWING CONTENTS:
UL ASSEMBLIES (P546)

ISSUE DATE:
09.13.2024

PROJECT NO.
23029

DRAWING NO.
G-121d

UL L593 SPECIFICATIONS (PG. 1)

UL Product iQ®

Design/System/Construction/Assembly Usage Disclaimer

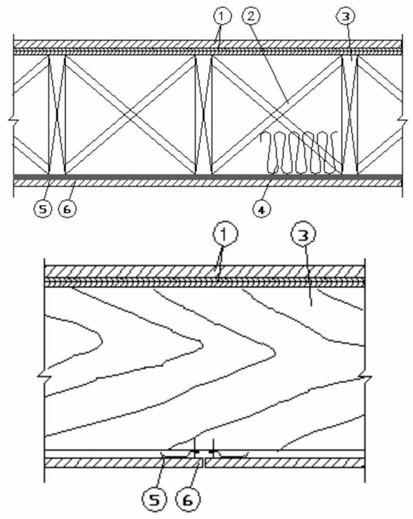
- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States
BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

Design No. **L593**
May 30, 2022

Unrestrained Assembly Rating — 1 Hr
This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used — See Guide BXUV or BXUV7

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**



1. **Flooring System —** The flooring system shall consist of one of the following:

System No. 1

Subflooring — Nom 15/32 in. thick wood structural panels installed perpendicular to the joists with end joints staggered. Plywood or panels secured to joists with construction adhesive and No. 6d ringed shank nails, spaced 12 in. OC along each joist. Staples having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails.

Vapor Barrier — (Optional) - Nom 0.030 in. thick commercial asphalt saturated felt.

Finish Floor — Min 1 by 4 In. T & G lumber installed perpendicular to the joists, or min 15/32 in. thick wood structural panels, min grade "Underlayment" or "Single-Floor". Face grain of plywood or strength axis of panel to be perpendicular to joists with joints staggered.

Subflooring — Nom 15/32 in. thick wood structural panels installed perpendicular to the joists with end joints staggered. Plywood or panels secured to joists with construction adhesive and No. 6d ringed shank nails, spaced 12 in. OC along each joist. Staples having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails.

Finish Flooring - Floor Topping Mixture* — Min 3/4 in. thickness of floor topping mixture having a min compressive strength of 1100 psi. Mixture shall consist of 6.8 gal of water to 80 lbs of floor topping mixture to 1.9 cu ft of sand.

HACKER INDUSTRIES INC — Firm-Fill Gypsum Concrete, Firm-Fill 2010, Firm-Fill 3310, Firm-Fill 4010, Firm-Fill High Strength and Gyp-Span Radiant

Metal Lath (Optional) — For use with 3/8 in. (10 mm) floor mat materials, 3/8 in. expanded steel diamond mesh, 3.4 lbs/sq yd placed over the floor mat material. Hacker Floor Primer to be applied prior to the placement of the metal lath. When metal lath is used, floor topping thickness a nom 1-1/4 in. over the floor mat.

Floor Mat Materials* — (Optional) — Floor mat material nom 5/64 in. (2 mm) thick adhered to subfloor with Hacker Floor Primer. Primer to be applied to the surface of the mat prior to the placement of a min 1 in. of floor-topping mixture.

HACKER INDUSTRIES INC — Type Hacker Sound-Mat.

Alternate Floor Mat Materials — (Optional) — Floor mat material nom 1/4 in. (6 mm) thick adhered to subfloor with Hacker Floor Primer. Primer to be applied to the surface of the mat prior to the placement of a min 1-1/4 in. (32 mm) of floor-topping mixture.

HACKER INDUSTRIES INC — Type Hacker Sound-Mat II.

Alternate Floor Mat Materials — (Optional)— Floor mat material nom 1/8 in. (3 mm) thick loose laid over the subfloor. Floor topping thickness shall be a min of 3/4 in. (19 mm)

HACKER INDUSTRIES INC — FIRM-FILL SCM 125

Alternate Floor Mat Materials — (Optional) — Floor mat material nom 1/4 in. (6 mm) thick loose laid over the subfloor. Floor topping thickness shall be a min of 1 in. (25 mm)

HACKER INDUSTRIES INC — Type FIRM-FILL SCM 250, Quiet Qurl 55/025

Alternate Floor Mat Materials — (Optional) — Floor mat material nom 3/8 in. (10 mm) thick loose laid over the subfloor. Floor topping thickness shall be a min of 1-1/4 in. (32 mm)

HACKER INDUSTRIES INC — FIRM-FILL SCM 400, Quiet Qurl 60/040

Alternate Floor Mat Materials — (Optional) — Floor mat material nom 3/4 in. (19 mm) thick loose laid over the subfloor. Floor topping thickness shall be a min of 1-1/2 in. (38 mm)

HACKER INDUSTRIES INC — Type FIRM-FILL SCM 750, Quiet Qurl 65/075

System No. 8

Subflooring — Nom 15/32 in. thick wood structural panels installed perpendicular to the joists with end joints staggered. Plywood or panels secured to joists with construction adhesive and No. 6d ringed shank nails, spaced 12 in. OC along each joist. Staples having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails.

Vapor Barrier — (Optional) — Nom 0.010 in. thick commercial asphalt saturated felt.

Finish Flooring - Floor Topping Mixture* — Min 3/4 in. thickness of floor topping mixture having a minimum compressive strength of 1800 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.

UNITED STATES GYPSUM CO — Types LRK, HSLRK, CSD

USG MEXICO S A DE C V — Types LRK, HSLRK, CSD

Floor Mat Materials* — (Optional) — Floor mat material loose laid over the subfloor. Refer to manufacturer's instructions regarding the minimum thickness of floor topping over each floor mat material.

UNITED STATES GYPSUM CO — Types SAM, LEVELROCK® Brand Sound Reduction Board, LEVELROCK® Brand Floor Underlayment SRM-25

System No. 9

Subflooring — Nom 15/32 in. thick wood structural panels installed perpendicular to the joists with end joints staggered. Plywood or panels secured to joists with construction adhesive and No. 6d ringed shank nails, spaced 12 in. OC along each joist. Staples having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails.

Vapor Barrier — (Optional) — Nom 0.030 in. thick commercial asphalt saturated felt.

Finish Flooring — Floor Topping Mixture* — Min 1 in. thickness of floor topping mixture having a min compressive strength of 1000 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.
DEPENDABLE LLC — GSL M3.4, GSL K2.6, GSL-CSD or GSL RH

Floor Mat Materials* — (Optional) — Nom. 1/4 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 3/4 in.
KEENE BUILDING PRODUCTS CO INC — Type Quiet Qurl 55/025 and Quiet Qurl 55/025 N

Alternate Floor Mat Materials* — (Optional) — Floor mat material Nom. 3/8 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 1 in.
KEENE BUILDING PRODUCTS CO INC — Type Quiet Qurl 60/040 and Quiet Qurl 60/040 N

Alternate Floor Mat Materials* — (Optional) — Floor mat material Nom. 3/4 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 1-1/2 in.
KEENE BUILDING PRODUCTS CO INC — Type Quiet Qurl 65/075, Quiet Qurl 65/075 N

Alternate Floor Mat Materials* — (Optional) — Floor mat material Nom. 1/8 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 3/4 in.
KEENE BUILDING PRODUCTS CO INC — Type Quiet Qurl 52/013 and Quiet Qurl 52/013 N

Alternate Floor Mat Materials* — (Optional) — Floor mat material Nom. 1/4 in. entangled net core with a compressible fabric attached to the bottom loose laid over the subfloor. Floor topping thickness shall be a minimum of 1 in.
KEENE BUILDING PRODUCTS CO INC — Quiet Qurl 55/025 MT and Quiet Qurl 55/025 N MT

System No. 10

Subflooring — Nom 15/32 in. thick wood structural panels installed perpendicular to the joists with end joints staggered. Plywood or panels secured to joists with construction adhesive and No. 6d ringed shank nails, spaced 12 in. OC along each joist. Staples having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails.

Finish Flooring* — Floor Topping Materials — Min 3/4 in. to 1-1/2 in. thickness of any Floor Topping Mixture bearing the UL Classification Marking as to Fire Resistance with a minimum compressive strength of 1500 psi.
See **Floor- and Roof-Topping Mixtures** (CCOX) category for names of Classified Companies. Refer to the manufacturer's instructions accompanying the material and/or contact the manufacturer's technical support for specific mix design and minimum thickness recommended for use with eligible floor mat(s).

Floor Mat Materials* — (Optional) — Floor mat material nom 1/8 in. to 3/4 in. thick. Loose laid over the subfloor. When used, Acousti-flor CSM (crack suppression mat) is loose laid over the floor mat material. Floor topping material thickness is dependent on thickness of floor mat used.
WALFLOR INDUSTRIES INC — Type Acousti-flor, Acousti-flor CSM. Floor topping thickness depends on products used as follows:

Acousti-flor (1/8 in. thick) - Floor topping thickness shall be a minimum of 3/4 in.

Acousti-flor (1/4 in. thick) - Floor topping thickness shall be a minimum of 1 in.

Acousti-flor (3/8 in. thick) - Floor topping thickness shall be a minimum of 1 in.

Acousti-flor (3/4 in. thick) - Floor topping thickness shall be a minimum of 1-1/2 in.

System No. 2

Subflooring — Nom 15/32 in. thick wood structural panels installed perpendicular to the joists with end joints staggered. Plywood or panels secured to joists with construction adhesive and No. 6d ringed shank nails, spaced 12 in. OC along each joist. Staples having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails.

Vapor Barrier - (Optional) — Nom 0.030 in thick commercial asphalt saturated felt.

Finish Flooring - Floor Topping Mixture* — Min 3/4 in. thickness of floor topping mixture having a minimum compressive strength of 1500 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.

MAXXON CORP — Types Maxxon Standard and Maxxon High Strength

Floor Mat Materials* - (Optional) — Floor mat material loose laid over the subfloor. Refer to manufacturer's instructions regarding the minimum thickness of floor topping over each floor mat material.

MAXXON CORP — Type Encapsulated Sound Mat.

Floor Mat Reinforcement - (Optional) Refer to manufacturer's instructions regarding minimum thickness of floor topping for use with each floor mat material

Metal Lath — (Optional) 3/8 in. expanded galvanized steel diamond mesh, 3.4 lbs/sq yd loose laid over the floor mat material. Floor topping thickness shall be min 1-1/2 in.

Fiber Glass Reinforcement — (Optional) 0.015 in. thick PVC coated non-woven fiberglass mesh, 0.368 lbs./sq. yd loose laid over the floor mat material.

System No. 3

Subflooring — Nom 15/32 in. thick wood structural panels installed perpendicular to the joists with end joints staggered. Plywood or panels secured to joists with construction adhesive and No. 6d ringed shank nails, spaced 12 in. OC along each joist. Staples having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails.

Vapor Barrier — (Optional) Nom 0.030 in. thick commercial asphalt saturated felt.

Finish Flooring — Floor Topping Mixture* — Min 3/4 in. thickness of floor topping mixture having a min compressive strength of 1500 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.
FORMULATED MATERIALS LLC — — Types FR-25, FR-30, and SiteMix

Floor Mat Material* — (Optional) Floor mat material nominal 2 - 9.5 mm thick loose laid over the subfloor. Floor topping shall be a min of 3/4 in.
FORMULATED MATERIALS LLC — Types M1, M2, M3, Elite, Duo, R1, and R2

System No. 4

Subflooring — Min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to the joists with joints staggered.

Vapor Barrier — (Optional) — Commercial asphalt saturated felt, 0.030 in. thick.

Vapor Barrier — (Optional) — Nom 0.010 in. thick commercial rosin-sized building paper.

Finish Flooring* — Min 3/4 in. thickness of any Floor Topping Mixture bearing the UL Classification Marking as to Fire Resistance. See **Floor- and Roof-Topping Mixtures** (CCOX) category for names of Classified Companies. Refer to the manufacturer's instructions accompanying the material and/or contact the manufacturer's technical support for specific mix design and minimum thickness recommended for use with eligible floor mat(s).

Floor Mat Materials* — (Optional) — Nom. 1/4 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 3/4 in.

KEENE BUILDING PRODUCTS CO INC — Type Quiet Qurl 55/025 and Quiet Qurl 55/025 N

Alternate Floor Mat Materials* — (Optional) — Floor mat material Nom. 3/8 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 1 in.

KEENE BUILDING PRODUCTS CO INC — Type Quiet Qurl 60/040 and Quiet Qurl 60/040 N

Metal Lath — (Optional) — Expanded steel diamond mesh, 2.5 lb / sq yd loose laid over floor mat material.

Fiberglass Mesh Reinforcement — (Optional) — Coated non-woven glass fiber mesh grid loose laid over floor mat material.

System No. 11

Subflooring — Nom 15/32 in. thick wood structural panels installed perpendicular to the joists with end joints staggered. Plywood or panels secured to joists with construction adhesive and No. 6d ringed shank nails, spaced 12 in. OC along each joist. Staples having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails.

Finish Flooring - Floor Topping Mixture* — Min 1 in. thickness of floor topping mixture having a min compressive strength of 4500 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.
SIKA DEUTSCHLAND GMBH — Type SCHONOX AP Rapid Plus

System No. 12

Subflooring — Nom 15/32 in. thick wood structural panels installed perpendicular to the joists with end joints staggered. Plywood or panels secured to joists with construction adhesive and No. 6d ringed shank nails, spaced 12 in. OC along each joist. Staples having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails.

Vapor Barrier — (Optional) - Commercial asphalt saturated felt, 0.030 in. thick.

Vapor Barrier — (Optional) - Nom 0.010 in. thick commercial rosin-sized building paper.

Finish Flooring - Floor Topping Mixture* — Min 3/4 in. thickness of any Floor Topping Mixture bearing the UL Classification Marking as to Fire Resistance. See Floor- and Roof-Topping Mixtures (CCOX) category for names of Classified Companies. Refer to the manufacturer's instructions accompanying the material and/or contact the manufacturer's technical support for specific mix design and minimum thickness recommended for use with eligible floor mat(s).

Floor Mat Materials* — (Optional, Not Shown) - Floor mat material loose laid over the subfloor. Refer to manufacturer's instructions regarding the minimum thickness of floor topping over each floor mat material.
LOW & BONAR INC — EnkaSonic® by Colbond a member of the Low & Bonar group Types 125, 250, 250 Plus, 400, 400 Plus, 750 and 750 Plus.

Floor Mat Reinforcement — (Optional) - Refer to manufacturer's instructions regarding minimum thickness of floor topping for use with floor mat reinforcement.

Metal Lath — (Optional) — Expanded steel diamond mesh, 2.5 lb / sq yd loose laid over floor mat material.

Fiberglass Mesh Reinforcement — (Optional) — Coated non-woven glass fiber mesh grid loose laid over floor mat material.

System No. 13

Subflooring — Nom 15/32 in. thick wood structural panels installed perpendicular to the joists with end joints staggered. Plywood or panels secured to joists with construction adhesive and No. 6d ringed shank nails, spaced 12 in. OC along each joist. Staples having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails.

Vapor Barrier — (Optional) — Nom 0.030 in. thick commercial asphalt saturated felt.

Floor Mat Materials* — (Optional) — Floor mat material loose laid over the subfloor. Refer to manufacturer's instructions regarding the minimum thickness of floor topping over each floor mat material.

GRASSWORX L L C — SC Types

Finish Flooring* — Min 3/4 in. thickness of any Floor Topping Mixture bearing the UL Classification Marking as to Fire Resistance. See Floor- and Roof-Topping Mixtures (CCOX) category for names of Classified Companies.

Floor Mat Reinforcement — (Optional) - Refer to manufacturer's instructions regarding minimum thickness of floor topping for use with floor mat reinforcement.

Metal Lath — (Optional) — Expanded steel diamond mesh, 2.5 lb / sq yd loose laid over floor mat material.

Alternate Floor Mat Materials* — (Optional) — Floor mat material Nom. 3/4 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 1-1/2 in.

KEENE BUILDING PRODUCTS CO INC — Type Quiet Qurl 65/075, Quiet Qurl 65/075 N

Alternate Floor Mat Materials* — (Optional) — Floor mat material Nom. 1/8 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 3/4 in.

KEENE BUILDING PRODUCTS CO INC — Type Quiet Qurl 52/013 and Quiet Qurl 52/013 N

Alternate Floor Mat Materials* — (Optional) — Floor mat material nom. 1/4 in. entangled net core with a compressible fabric attached to the bottom loose laid over the subfloor. Floor topping thickness shall be a minimum of 1 in.

KEENE BUILDING PRODUCTS CO INC — Quiet Qurl 55/025 MT and Quiet Qurl 55/025 N MT

System No. 5

Subflooring — Nom 15/32 in. thick wood structural panels installed perpendicular to the joists with end joints staggered. Plywood or panels secured to joists with construction adhesive and No. 6d ringed shank nails, spaced 12 in. OC along each joist. Staples having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails.

Vapor Barrier — (Optional) — Nom 0.030 in. thick commercial asphalt saturated felt.

Finish Flooring - Floor Topping Mixture* — Min 1 in. thickness of floor topping mixture having a min compressive strength of 1000 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.

ARCOSA SPECIALTY MATERIALS — AccuCrete® Types NexGen, Green, Prime and PrePour, AccuRadiant®, AccuLevel® Types G40, G50 and SD30

Floor Mat Material* — (Optional) — Floor mat material nominal 2 - 9.5 mm thick loose laid over the subfloor. Floor topping shall be a min of 3/4 in.

ARCOSA SPECIALTY MATERIALS — AccuQuilet® Types D13, D-18, D25, DX38, EM.125, EM.125S, EM.250, EM.250S, EM.375, EM.375S, EM.750, and EM.750S.

System No. 6

Subflooring — Min 15/32 in. thick T&G wood structural panels, min grade "Underlayment" or "Single-Floor". Face grain of plywood or strength axis of panels to be perpendicular to the trusses with end joints staggered 4 ft. Panels secured to trusses with construction adhesive and No. 6d ringed shank nails spaced 12 in. OC along each truss. Staples having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails.

Gypsum Board* — One layer of nom 5/8 in. thick, 4 ft wide gypsum board, installed with long dimension perpendicular to joists. Gypsum board secured with 1 in. long No. 6 Type W bugle head steel screws spaced 12 in. OC and located a min of 1-1/2 in. from side and end joints. The joints of the gypsum board are to be staggered a minimum of 12 inches from the joints of the subfloor.

GEORGIA-PACIFIC GYPSUM L L C — Type DS

Floor Mat Materials* — (As an alternate to the single layer gypsum board) — Floor mat material loose laid over the subfloor.

MAXXON CORP — Type Encapsulated Sound Mat.

Gypsum Board* — (For use when floor mat is used) — Two layers of nom 5/8 in. thick, 4 ft wide gypsum board, installed with long dimension perpendicular to joists on top of the floor mat material. Gypsum board secured to each other with 1 in. long No. 6 Type G bugle head steel screws spaced 12 in. OC and located a min of 1-1/2 in. from side and end joints. The joints of the gypsum board are to be staggered a minimum of 12 inches in between layers and from the joints of the subfloor.

GEORGIA-PACIFIC GYPSUM L L C — Type DS

System No. 7

Fiberglass Mesh Reinforcement — (Optional) — Coated non-woven glass fiber mesh grid loose laid over floor mat material.

2. Cross Bridging — 1 by 3 in.

3. Wood Joists — 2 by 10 in., spaced 16 in. OC, firestopped. Spacing may increased to 24 in. OC when Item 7, Battens, are used.

4. Batts and Blankets* — (Optional) — Glass fiber or mineral wool insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance. - When the resilient channels (Item 5) or furring channels (Item 5B) are spaced 16 in. OC, the insulation shall be a max of 3-1/2 in. thick, and shall be secured against the subflooring with staples at 12 in. OC or held suspended in the concealed space with 0.090 in. diam galv steel wires attached to the wood trusses at 12 in. OC. When the resilient channels (Item 5) or furring channels (Item 5B) are spaced a max of 12 in. OC or when the Steel Framing Members (Item 5A) are used, there is no limit in the overall thickness of insulation, and the insulation can be secured against the subflooring, held suspended in the concealed space or draped over the resilient channels (or Steel Framing Members) and gypsum panel membrane.

4A. Loose Fill Material* or Sprayed Fiber* — As an alternate to Item 4, when the resilient channels (Item 5) or furring channels (Item 5B) are spaced a max of 12 in. OC or when the Steel Framing Members (Item 5A) are used - Any loose fill material bearing the UL Classification Marking for Surface Burning Characteristics. There is no limit in the overall thickness of insulation.

5. Resilient Channels — Nom 1/2 in. deep by 2-3/8 in. wide at the base and 1-3/8 in. wide at the face, formed from 0.020 in. thick galv steel. Installed perpendicular to the wood joists, spaced a max of 24 in. OC (16 in. OC when Item 6A, Type ULIX is used) when no insulation is fitted in the concealed space. Otherwise, the spacing shall be as specified under Item 4, 4A or 6B. Two courses of resilient channel positioned 6 in. OC at gypsum panel butt-joints (3 in. from each end of panel). Channels oriented opposite at panel butt-joints. Channel splices overlapped 4 in. beneath wood trusses. Channels secured to each truss with 1-1/4 in. long Type S screws.

5A. Alternate Steel Framing Members — (Not Shown) — As an alternate to Item 5, main runners, cross tees, cross channels and wall angle as listed below.
a. **Main Runners —** Nom 10 or 12 ft long, 15/16 in. or 1-1/2 In. wide face, spaced 4 ft. OC. Main runners suspended by min 12 SWG galv steel hanger wires spaced 48 in. OC. Hanger wires to be located adjacent to main runner/cross tee intersections. Hanger wires wrapped and twist-tied on 16d nails driven in to side of joists at least 5 in. above the bottom face.

b. **Cross Tees —** Nom 4 ft long, 1-1/2 in. wide face, installed perpendicular to the main runners, spaced 16 in. OC. Additional cross tees or cross channels used at 8 in. from each side of butted gypsum panel end joints. The cross tees or cross channels may be riveted or screw attached to the wall angle or channel to facilitate the ceiling installation.

c. **Cross Channels —** Nom 4 or 12 ft long, installed perpendicular to main runners, spaced 16 in. OC.

d. **Wall Angle or Channel —** Painted or galv steel angle with 1 in. legs or channel with 1 in. legs, 1-9/16 in. deep attached to walls at perimeter of ceiling with fasteners 16 in. OC. To support steel framing member ends and for screw-attachment of the gypsum panels.
CGC INC — Type DGL or RX

USG INTERIORS LLC — Type DGL or RX

5B. Alternate Steel Framing Members* — (Not Shown) — As an alternate to Items 5 and 5A, furring channels and Steel Framing Members as described below.
a. **Furring Channels —** Formed of No. 25 MSG galv steel, 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, installed perpendicular to the wood joists, spaced a max of 24 in. OC (16 in. OC when Item 6A, Type ULIX is used) when no insulation is fitted in the concealed space. Otherwise, the spacing shall be as specified under Item 4, 4A or 6B. Channels secured to joists as described in Item b. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap.

b. **Steel Framing Members* —** Used to attach furring channels (Item a) to the wood joists (Item 2). RSIC-1 and RSIC-1 (2.75) clips secured to consecutive joists with No. 8 x 2-1/2 in. coarse drywall screw through the center grommet. RSIC-V and RSIC-V (2.75) clips secured to consecutive joists with No. 8 x 1-1/2 in. coarse drywall screw through the center hole. Furring channels are friction-fitted into clips. RSIC-1 and RSIC-V clips for use with 2-9/16 in. wide furring channels. RSIC-1 (2.75) and RSIC-V (2.75) clips for use with 2-23/32 in. wide furring channels. Adjoining channels are overlapped as described in Item a. As an alternate, ends of adjoining channels may be overlepped 6 in. and secured together with two self-tapping #6 framing screws, min. 7/16 in. long at the midpoint of the

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Certification: 09.13.2024 BID SET

Consultant Logo:

Key Plan:

THE LANDING 3.0

NEW CONSTRUCTION
555 S. HARRISON ST.
Fort Wayne, Indiana 46802

REVISION		
No.	Date	Revision

DRAWING CONTENTS:
UL ASSEMBLIES (L593)

ISSUE DATE: 09.13.2024
PROJECT NO. 23029

DRAWING NO:
G-121e

Plot Time/Date: 9/10/2024, 2:48:19 PM
Drawing Name: template.rte

UL L593 SPECIFICATIONS

overlap, with one screw on each flange of the channel. Additional clips required to hold furring channel that supports the gypsum panel butt joints, as described in Item 8.
PAC INTERNATIONAL L L C — Types RSIC-1, RSIC-V, RSIC-1 (2.75), RSIC-V (2.75).

5C. **Alternate Steel Framing Members* —** (Not Shown) — As an alternate to Items 5, 5A and 5B, furring channels and Steel Framing Members as described below.
a. **Furring Channels —** Formed of No. 25 MSG galv steel, 2-3/8 in. wide by 7/8 in. deep, installed perpendicular to the wood joists, spaced a max of 24 in. OC (16 in. OC when Item 6A, Type ULIX is used) when no insulation is fitted in the concealed space. When insulation, Item 4 is applied over the resilient channel/gypsum panel ceiling membrane, the resilient channel spacing shall be reduced to 12 in. OC (16 in. OC when Item 6B, Type FSLX is used). Channels secured to joists as described in Item b. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap.

b. **Steel Framing Members* —** Used to attach furring channels (Item a) to the wood joists (Item 2). GenieClips secured to consecutive joists with No. 8 x 2-1/2 in. coarse drywall screw through the center grommet. When insulation, Item 4, is applied over the resilient channel/gypsum panel ceiling membrane, the clip spacing shall be reduced to 12 in. OC and secured to consecutive trusses. Furring channels are friction-fitted into clips. Adjoining channels are overlapped as described in Item a. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping #6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Additional clips required to hold furring channel that supports the gypsum panel butt joints, as described in Item 6. Not evaluated for use with Item 4A.
PLITEQ INC — Type GENIECLIP

5D. **Alternate Steel Framing Members* —** (Not Shown) — As an alternate to items 5-5C, furring channels and Steel Framing Members as described below.
a. **Furring Channels —** Formed of No. 25 MSG galv steel, 2-5/8 in. wide by 7/8 in deep, installed perpendicular to the wood joists, spaced a max of 24 in. OC (16 in. OC when Item 6A, Type ULIX is used) when no insulation is fitted in the concealed space. When insulation, Item 4 is applied over the resilient channel/gypsum panel ceiling membrane, the resilient channel spacing shall be reduced to 12 in. OC (16 in. OC when Item 6B, Type FSLX is used). Channels secured to joists as described in Item b.

b. **Steel Framing Members* —** Used to attach furring channels (Item a) to the wood joists (Item 2). Clips spaced at 48" OC and secured to the bottom of the joists with one 2 In. Coarse Drywall Screw with 1 in. diam washer through the center hole. When insulation, Item 4, is applied over the resilient channel/gypsum panel ceiling membrane, the clip spacing shall be reduced to 12 in. OC and secured to consecutive trusses Furring channels are then friction fitted into clips. Ends of channels are overlapped 6" and tied together with double strand of No. 18 AWG galvanized steel wire. Additional clips are required to hold the Gypsum Butt joints as described in Item 6.
STUDCO BUILDING SYSTEMS — RESILMOUNT Sound Isolation Clips - Type A237 or A237R

5E. **Steel Framing Members* —** (Optional, Not Shown) — As an alternate to Item 5.
a. **Furring Channels —** Formed of No. 25 MSG galv steel, nominal 2-1/2 in. wide by 7/8 in. deep, spaced as indicated in Item 5, perpendicular to the joists. Channels secured to Cold Rolled Channels at every intersection with a 3/4 in. TEK screw through each furring channel leg. Ends of adjoining channels overlapped 12 in. and fastened together with two double strand No. 18 SWG galv steel wire ties, one at each end of overlap, or with two 3/4 in. TEK screws in each leg of the overlap section. Two furring channels used at end joints of gypsum board (Item 6), each extending a min of 6 in. beyond both side edges of the board.

b. **Cold Rolled Channels —** 1-1/2 in. by 1/2 in., formed from No. 16 ga. galv steel, positioned vertically and parallel to joists, friction-fitted into the channel caddy on the Steel Framing Members (Item 5Ec) and secured with two 3/4 in. TEK screws. Adjoining lengths of cold rolled channels lapped min. 12 in. and secured along bottom legs with four 3/4 in. TEK screws and wire-tied together with two double strand 18 SWG galv steel wire ties, one at each end of overlap.

c. **Steel Framing Members* —** Spaced 48 in. OC. max along joist, and secured to the joist on alternating joists with two, #10 x 1-1/2 in. screws through mounting holes on the hanger bracket.
PAC INTERNATIONAL L L C — Type RSIC-SI-CRC EZ Clip

5F. **Steel Framing Members* —** (Optional, Not Shown) — As an alternate to Item 5.
a. **Furring Channels —** Formed of No. 25 MSG galv steel, nominal 2-1/2 in. wide by 7/8 in. deep, spaced as indicated in Item 5, perpendicular to joists and friction fit into Steel Framing Members (Item 5Fb). Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap or with two TEK screws along each leg of the 6 in. overlap. Two furring channels used at end joints of gypsum board (Item 6). Butt joint channels held in place by strong back channels placed upside down, on top of, and running perpendicular to primary furring channels, extending 6 in. longer than length of gypsum side joint. Strong back channels spaced maximum 48 in. OC. Strong back channels secured to every intersection of primary furring channels with four 7/16 in. pan head screws, two along each of the legs at intersections. Butt joint channels run perpendicular to strong back channels and shall be minimum 6 in. longer than length of joint, secured to strong back channels with 7/16 in. pan head screws, two along each of the legs at intersection with strong back channels.

b. **Steel Framing Members* —** Used to attach furring channels (Item 5Fa) to joists. Clips spaced 48 in. OC and secured along joist webs at each furring channel intersection with min. 3/4 in. long self-drilling #10 x 1-1/2 in. screws through each of the provided hole locations. Furring channels are friction fitted into clips.
PAC INTERNATIONAL L L C — Type RSIC-S1-1 Ultra

5G. **Steel Framing Members* —** (Optional - Not Shown) — Used to attach resilient channels (Item 6) to joists (Item 3). Clips spaced 48 in. OC and secured to joists with one No. 8 x 2-1/2 in. coarse drywall screw through center grommet hole. Channels secured to clips with one #10 x 1/2 in. pan-head self-drilling screw. Ends of adjoining channels overlapped 6 in. and secured together with two #8 15 x 1/2 in. Phillips Modified screws spaced 2-1/2 in. from the center of the overlap. Gypsum board butt joints require additional resilient channels spaced 1-1/2 in. from the butt joint on either side. One edge of the extra channels will extend to an adjacent joist where it is secured with a clip.
KEENE BUILDING PRODUCTS CO INC — Type RC+ Assurance Clip

5H. **Steel Framing Members* —** (Optional, Not Shown) — Used as an alternate method to attach resilient channels to structural members. A resilient sound isolation accessory shall be used at each attachment point of the resilient channels and spaced max 16 in. O.C. Channel ends butted and centered under the structural members and attached with one accessory at each end. Additional accessories used to hold resilient channels that support the gypsum board end joints. The accessory envelops the mounting edge of the resilient channel. The accessory and resilient channel are fastened to the structural members with the screws supplied with the accessory and per the accessory manufacturer's installation instructions. Gypsum Board butt joints staggered minimum 24 in. OC and Gypsum Board screws spaced 8 in. OC (in lieu of 12 in.) when used.
PAC INTERNATIONAL L L C — Type RC-1 Boost

6. **Gypsum Board* —** Nom 5/8 in. thick, 48 in. wide gypsum panels. When resilient channels (Items 5) are used, gypsum panels installed with long dimension perpendicular to resilient channels. Gypsum panels secured with 1 in. long Type S bugle head steel screws spaced 12 in. OC and located a min of 1/2 in. from side joints and 3 in. from end joints. End joints secured to both resilient channels as shown in end joint detail. When Steel Framing Members (Item 5B, 5C) are used, gypsum panels installed with long dimensions perpendicular to furring channels. Panels attached to the furring channels using 1 in. long Type S bugle-head steel screws spaced 8 in. OC along butted end joints and in the field of the panels. Butted end joints shall be staggered min. 2 ft within the assembly, and occur midway between the continuous furring channels. Each end of each gypsum panel shall be supported by a single length of furring channel equal to the width of the gypsum panel plus 6 in. on each end. The two support furring channels shall be spaced approximately 3-1/2 in. OC, and be attached to underside of the joist with one clip at each end of the channel. When Steel Framing Members (Item 5A) are used, gypsum panels installed with long dimension perpendicular to cross tees with side joints centered along main runners and end joints centered along cross tees. Panels fastened to cross tees with 1 in. long Type S bugle-head steel screws spaced 8 in. OC in the field and 8 in. OC along end joints. Panels fastened to main runners with 1 in. long Type S bugle-head steel screws spaced midway between cross tees. Screws along sides and ends of panels spaced 3/8 to 1/2 in. from panel edge. End joints of panels staggered on adjacent panels not less than 12 in. When **Steel Framing Members** (Item 5D) are used, one layer of nom 5/8 in. thick, 4 ft wide gypsum board is installed with long dimensions perpendicular to furring channels. Gypsum board secured to furring channels with nom 1 in. long Type S bugle-head steel screws spaced 8 in. OC in the field of the board. Gypsum board butted end joints shall be staggered minimum 48 in. and centered over main furring channels. At the gypsum board butt joints, each end of each gypsum board shall be supported by a single length of furring channel equal to the width of the gypsum board plus 3 in. on each end. The two support furring channels shall be spaced approximately 3 in. in from joint. Screw spacing along the gypsum board butt joint and along both additional channels shall be 8 in. OC. Additional screws shall be placed in the adjacent section of gypsum board into the aforementioned 3 in. extension of the extra butt joint channels as well as into the main channel that runs between. Butt joint furring channels shall be attached with one RESILMOUNT Sound Isolation Clip at each end of the channel.
When **Steel Framing Members** (Item 5E) are used, nom 5/8 in. thick, 4 ft wide gypsum board, installed as described in Item 6. Adjacent butt joints staggered minimum 48 in. OC.

When **Steel Framing Members** (Item 5F) are used, nom 5/8 in. thick, 4 ft wide gypsum board, installed as described in Item 6. Butt joints staggered minimum 24 in. OC.

CGC INC — Types C, IP-X2, IPC-AR

GEORGIA-PACIFIC GYPSUM L L C — Types 5, DAPC, TG-C

NATIONAL GYPSUM CO — Type FSW-C, eXP-C, FSK-C, FSMR-C

UNITED STATES GYPSUM CO — Types C, IP-X2, IPC-AR

USG BORAL DRYWALL SFZ LLC — Type C

USG MEXICO S A DE C V — Types C, IP-X2, IPC-AR

6A. **Gypsum Board* (As an alternative to Item 6) —** Nom 5/8 in. thick, 48 in. wide gypsum board, installed and secured as described in Item 6 with max screw spacing 8 in. OC.
CGC INC — ULIX

UNITED STATES GYPSUM CO — ULIX

6B. **Gypsum Board* (As an alternative to Item 6) —** When used, Resilient Channels (Item 5) or Furring Channels (Item 5B) spaced max 16 in. OC and Batts and Blankets (Item 4) draped over the Resilient Channels (or Steel Framing Members). May also be used with Item 4A at same channel spacing. Nom 5/8 in. thick, 48 in. wide gypsum board, installed and secured as described in Item 6 with max screw spacing of 8 in. OC. Butted end joints staggered minimum 8 ft. OC.

NATIONAL GYPSUM CO — Type FSLX

7. **Battens —** Nom 6 by 22-1/2 by 5/8 in. thick pieces of gypsum board (Item 6) centered under subfloor joints and fastened with staples spaced 7 in. OC along each edge. Staples formed of 16 SWG (0.062 in. thick) steel with 1-1/8 in. legs and 1/2 in. crown, driven flush with gypsum board batten strips. The battens and staples are optional when the finish flooring consists of **Floor Topping Mixture***.

8. **Finishing System —** (Not Shown) — Vinyl, dry or premixed joint compound, applied in two coats to joints and screw-heads. Nom 2 in. wide paper tape embedded in first layer of compound over all joints. As an alternate, nom 3/32 in. thick veneer plaster may be applied to the entire surface of gypsum panels.

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

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Certification: 09.13.2024 BID SET

Consultant Logo:

Key Plan:

THE LANDING 3.0

NEW CONSTRUCTION
555 S. HARRISON ST.
Fort Wayne, Indiana 46802

REVISION

No.	Date	Revision

DRAWING CONTENTS:
UL ASSEMBLIES (L593)

ISSUE DATE: 09.13.2024
PROJECT NO. 23029

DRAWING NO.
G-121f

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UL P522 SPECIFICATIONS

UL Product iQ®

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States

BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

See General Information for Fire-resistance Ratings - ANSI/UL 263 Certified for United States
Design Criteria and Allowable Variances

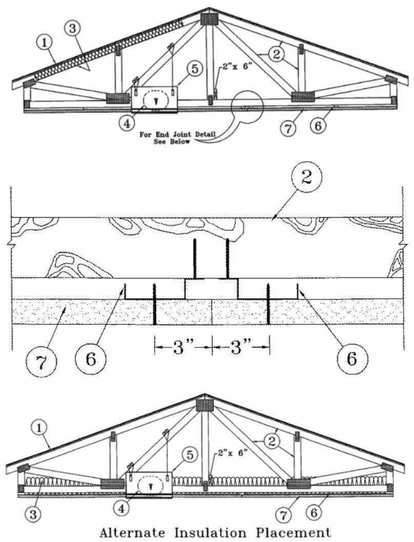
See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada
Design Criteria and Allowable Variances

Design No. P522

February 16, 2024

Unrestrained Assembly Rating — 1 Hr
Finish Rating — 25 Min (See Items 3 or 3A)
This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used — See Guide BXUV or BXUV7

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**



Alternate Insulation Placement

1. **Roofing System* —** Any UL Class A, B or C Roofing System (TGFU) or Prepared Roof Covering (TFWZ) acceptable for use over nom 15/32 in. thick wood structural panels, min. grade "C-D" or "Sheathing". Nom 15/32 in. thick wood structural panels secured to trusses with No. 6d ringed shank nails spaced 12 in. OC along each truss. Staples having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails. Construction adhesive may be used with either the nails or staples.

2. **Trusses —** Pitched or parallel chord wood trusses, spaced a max of 24 in. OC, fabricated from nom 2 by 4 lumber, with lumber oriented vertically or horizontally. Truss members secured together with min. 0.0316 in. thick galv steel plates. Plates have 5/16 in. long teeth projecting perpendicular to the plane of the plate. The teeth are in pairs facing each other (made by the same punch), forming a split tooth type plate. Each tooth has a chisel point on its outside edge. These points are diagonally opposite each other for each pair. The top half of each tooth has a twist for stiffness. The pairs are repeated on approximately 7/8 in. centers with four rows of teeth per inch of plate width. Minimum parallel chord truss depth shall be 18 in. Where pitched truss intersects with the interior face of the exterior walls, the min truss depth shall be 5-1/4 in. with a min roof slope of 3/12 and a min. average depth of 18 in. Where the truss intersects with the interior face of the exterior walls, the min truss depth may be reduced to 3 in. if the batts and blankets (Item 3) are used as shown in the above illustration (Alternate Insulation Placement) and are firmly packed against the intersection of the bottom chords and the plywood sheathing.

3. **Batts and Blankets* —** (Optional) — Required when Item 6B is used — Glass fiber insulation, secured to the wood structural panels with staples spaced 12 in. OC or to the trusses with 0.090 in. diam galv steel wires spaced 12 in. OC. Any glass fiber insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance, having a min density of 0.5 pcf. As an option, the insulation may be fitted in the concealed space, draped over the resilient channel/gypsum board ceiling membrane when resilient channels and gypsum board attachment is modified as specified in Items 6 and 7. When **Steel Framing Members** (Item 6B) are used, max 3-1/2 in. thick insulation shall be draped over the furring channels (Item 6Ba) and gypsum board ceiling membrane, and friction-fitted between trusses and Steel Framing Members (Item 6Bd). The finished rating has only been determined when the insulation is secured to the decking.

3A. **Fiber, Sprayed* —** As an alternate to Item 3 (not evaluated for use with Item 6B) — Any thickness of spray-applied cellulose insulation material, having a min density of 0.5 lb/ft^3, applied with water, over the resilient channel/gypsum board ceiling membrane when resilient channels and gypsum board attachment is modified as specified in Items 6 and 7. Fiber, Sprayed is applied with moisture in accordance with the application instructions supplied with the product. The finish rating when Fiber Sprayed is used has not been determined. Alternate application method: The fiber is applied without water or adhesive in accordance with the application instructions supplied with a minimum density of 0.5 lb/ft^3 over the resilient channel/gypsum board ceiling membrane when resilient channels and gypsum board attachment is modified as specified in Items 6 and 7. Alternate application method: The fiber is applied without water or adhesive to a nominal density of 3.5 lb/ft^3 behind netting (Item 9) stapled to the rafters. The netting is stapled at both lower edges of the rafters creating a cavity to accept the cellulose fiber.
APPLEGATE GREENFIBER ACQUISITION LLC — SANCTUARY for use with wet or dry application. Insulmax are to be used for dry application only.

3B. **Foamed Plastic* —** (As an alternate to Item 3 or 3A, Not Shown) — Spray foam insulation applied directly to the underside of the roofing system (Item 1). Spray foam insulation installed to a maximum thickness of 10 in. at a nominal 0.5 lb/ft^3 density, while maintaining a minimum 8-1/2 in. clearance between the spray foam insulation and the gypsum board (Item 7). When spray foam insulation is used, resilient channels (Item 6) shall be installed maximum 12 in. OC, with channels adjacent to butt joints of gypsum board (Item 7) installed at 6 in. OC to allow for maximum 3 in. spacing off ends of the gypsum board joints. Gypsum board (Item 7) to be installed using 1-1/4 in. long Type S screws, spaced maximum 8 in. OC, and butted end joints shall be staggered min. 2 ft within the assembly, and occur midway between the continuous furring channels. If used with a fire damper (Items 5 through 5K) in the concealed space, no clearance is necessary between damper housing and spray foam insulation. Not evaluated for use with Items 6A through 6F.
Holcim Solutions and Products US, LLC — Sucraseal

3C. **Cavity Insulation - Batts and Blankets* or Fiber, Sprayed* —** (As described above) in Items 3 and 3A — (For Use with Item 7B, Not Shown) — Min. 3-1/2 in thick with no limit on maximum thickness fitted in the concealed space, draped over the resilient channel (Item 6G)/gypsum board (Item 7B) ceiling membrane.

3D. **Foamed Plastic* —** (As alternate to Item 3, 3A, or 3B, Not Shown) — Spray foam insulation applied directly to the underside of the roofing system (Item 1). Spray foam insulation installed to a maximum thickness of 10 in. at a nominal 0.5 lb/ft^3 or 2.0 lb/ft^3 density, depending on the product installed. When spray foam insulation is installed, resilient channels (Item 6) shall be installed maximum 12 in. OC, with channels adjacent to butt joints of gypsum board (Item 7) spaced maximum 3 in. away from gypsum butt joints. Gypsum board (Item 7) to be installed using minimum 1-1/4 in. long Type S screws, spaced maximum 8 in. OC, and butted end joints shall be staggered min. 2 ft within the assembly, and occur midway between the continuous furring channels. If used with a fire

damper (Items 5 through 5H) in the concealed space, minimum 1 in. clearance to be maintained between damper housing and spray foam insulation. Not evaluated for use with Items 6A through 6F.
BASF CORP — Enertite® NM, Enertite® G, FE178®, Spraytite® 178, Spraytite® 81206, Walltite® 200, Walltite® US, Walltite® US-N, Walltite® HP+, Walltite® MAX, and Walltite® v.5

3E. **Foamed Plastic* —** (As an alternate to Item 3, 3A, 3B, 3C, or 3D, Not Shown) — Spray foam insulation applied directly to the underside of the underside of the roofing system (Item 1). Spray foam insulation installed to a maximum thickness of 17 in. at a nominal 0.5 lb/ft^3 density, while maintaining a minimum 1-1/2 in. clearance between the spray foam insulation and the gypsum board (Item 7). When spray foam insulation is used, resilient channels (Item 6) shall be installed maximum 12 in. OC, with channels adjacent to butt joints of gypsum board (Item 7) to be installed using 1-1/4 in. long Type S screws, spaced maximum 8 in. OC, and butted end joints shall be staggered min. 2 ft within the assembly, and occur midway between the continuous furring channels. If used with a fire damper (Items 5 through 5K) in the concealed space, no clearance is necessary between damper housing and spray foam insulation. Not evaluated for use with Items 6A through 6F.
Holcim Solutions and Products US, LLC — EasySeal.5, EasySeal ULD

3F. **Foamed Plastic* —** (As alternate to Item 3) — Spray foam insulation applied directly to the underside of the roofing system (Item 1). Spray foam insulation installed to a maximum thickness of 11 in. at a nominal 0.5 lb/ft^3 - 2.5 lb/ft^3 density, while maintaining a minimum 7 in. clearance between the spray foam insulation and the gypsum board (Item 7). When spray foam insulation is installed, resilient channels (Item 6) shall be installed maximum 12 in. OC, with channels adjacent to butt joints of gypsum board spaced maximum 3 in. away from gypsum butt joints. Gypsum board to be installed using minimum 1-1/4 in. long Type S screws, spaced maximum 8 in. OC, and butted end joints shall be staggered min. 2 ft within the assembly, and occur midway between the continuous furring channels. If used with a fire damper (Items 5 through 5K) in the concealed space, no clearance is necessary between damper housing and spray foam insulation. Only for use with item 6 not evaluated for use with alternates to item 6.
CARLISLE SPRAY FOAM INSULATION — Types SealTite Pro Closed Cell (CC), SealTite Pro Open Cell (OC), SealTite Pro OCX, SealTite Pro No Trim 21, SealTite Pro One Zero, SealTite PRO HFO, Foamulate Closed Cell, Foamulate OCX, Foamulate 70, Foamulate HFO, and Foamulate HFO 2.0.

3G. **Foamed Plastic* —** (As an alternate to Item 3, 3A, 3B, 3C, or 3D, Not Shown) — Spray foam insulation applied directly to the underside of the underside of the roofing system (Item 1). Spray foam insulation installed to a maximum thickness of 17 in. at a nominal 0.5 lb/ft^3 density, while maintaining a minimum 1-1/2 in. clearance between the spray foam insulation and the gypsum board (Item 7). When spray foam insulation is used, resilient channels (Item 6) shall be installed maximum 12 in. OC, with channels adjacent to butt joints of gypsum board (Item 7) installed at 6 in. OC to allow for maximum 3 in. spacing off ends of the gypsum board joints. Gypsum board (Item 7) to be installed using 1-1/4 in. long Type S screws, spaced maximum 8 in. OC, and butted end joints shall be staggered min. 2 ft within the assembly, and occur midway between the continuous furring channels. If used with a fire damper (Items 5 through 5K) in the concealed space, no clearance is necessary between damper housing and spray foam insulation. Not evaluated for use with Items 6A through 6F.

EVEREST SYSTEMS LLC — Opticell 0.5

4. **Air Duct* —** For use with **Ceiling Dampers*** - Any UL Class 0 or Class 1 flexible air duct installed in accordance with the instructions provided by the damper manufacturer.

5. **Ceiling Damper* —** Max nom area, 324 sq in. Max square size, 18 in. by 18 in. rectangular sizes not to exceed 324 sq in. with a max width of 18 in. Max damper height is 14 in. Installed in accordance with manufacturers installation instructions provided with the damper. Max damper openings not to exceed 162 sq in. per 100 sq ft of ceiling area.
C&S AIR PRODUCTS — Model RD-521

POTTORFF — Model CFD-521

5A. **Alternate Ceiling Damper* —** Max nom area, 196 sq in. Max square size, 14 in. by 14 in. Rectangular sizes not to exceed 196 sq in. with a max width of 26 in. Max overall damper height is 7 in. Installed in accordance with the manufacturers installation instructions provided with the damper. Max damper openings not to exceed 98 sq in. per 100 sq ft of ceiling area.
C&S AIR PRODUCTS — Model RD-521-8T

POTTORFF — Model CFD-521-8T.

5B. **Alternate Ceiling Damper* —** Max nom area shall be 256 sq in. with the length not to exceed 24 in. and the width not to exceed 20 in. Max height of damper shall be 17 in. Aggregate damper openings shall not exceed 128 sq in. per 100 sq ft of ceiling area. Damper installed in accordance with the manufacturers installation instructions provided with the damper. A steel grille shall be installed in accordance with installation instructions.
C&S AIR PRODUCTS — Model RD-521-IP, RD-521-NP

POTTORFF — Models CFD-521-IP, CFD-521-NP

5C. **Alternate Ceiling Damper* —** Ceiling damper & fan assembly. Max nom area shall be 75 sq in. with the length not to exceed 8-9/16 in. and the width not to exceed 8-3/4 in. Max height of damper shall be 9-7/8 in. Aggregate damper openings shall not exceed 38 sq in. per 100 sq ft of ceiling area. Damper shall be installed in combination with one of the fan models described in, and in accordance with, the manufacturers installation instructions provided with the damper. A plastic grille shall be installed in accordance with installation instructions.
DELTA ELECTRONICS INC — Models CRD2, GBR-CRD, ITG-CRD

5D. **Alternate Ceiling Damper* —** Ceiling damper & fan. Max nom area shall be 75 sq in. with the length not to exceed 9-1/4 in. and the width not to exceed 9-3/4 in. Max height of damper shall be 9-7/8 in. Aggregate damper openings shall not exceed 45 sq in. per 100 sq ft of ceiling area. Damper shall be installed in combination with one of the fan models described in, and in accordance with, the manufacturer's installation instructions provided with the damper. A plastic grille shall be installed in accordance with installation instructions.
DELTA ELECTRONICS INC — Model SIG-CRD

5E. **Alternate Ceiling Damper* —** Max nom area shall be 144 sq in. with the length not to exceed 14 in. and the width not to exceed 12 in. Max height of damper shall be 17-7/8 in. Aggregate damper openings shall not exceed 74 sq in. per 100 sq ft of ceiling area. Damper installed in accordance with the manufacturers installation instructions provided with the damper. A steel grille shall be installed in accordance with installation instructions.
C&S AIR PRODUCTS — Model RD-521-90, RD-521-NP90

POTTORFF — Models CFD-521-90, CFD-521-90NP

5F. **Alternate Ceiling Damper* —** Ceiling damper & fan assembly. Max nom area shall be 131 sq in. with the length not to exceed 11-1/16 in. and the width not to exceed 11-7/8 in. Aggregate damper openings shall not exceed 66 sq in. per 100 sq ft of ceiling area. Damper shall be installed in combination with one of the fan models described in, and in accordance with, the manufacturer's installation instructions provided with the damper. A plastic grille shall be installed in accordance with installation instructions.
DELTA ELECTRONICS INC — Model SMT-CRD

5G. **Alternate Ceiling Damper* —** Ceiling damper & fan assembly. Max nom area shall be 103 sq in. with the length not to exceed 10-1/8 in. and the width not to exceed 10-1/8 in. Aggregate damper openings shall not exceed 52 sq in. per 100 sq ft of ceiling area.

Damper shall be installed in combination with one of the fan models described in, and in accordance with, the manufacturer's installation instructions provided with the damper. A plastic grille shall be installed in accordance with installation instructions.
PANASONIC CORPORATION, PANASONIC CORPORATION OF NORTH AMERICA — Model PC-RD05CS

5H. **Alternate Ceiling Damper* —** Ceiling damper & fan assembly. Max nom area shall be 113 sq in. with the length not to exceed 10-1/8 in. and the width not to exceed 11-1/8 in. Aggregate damper openings shall not exceed 57 sq in. per 100 sq ft of ceiling area. Damper shall be installed in combination with one of the fan models described in, and in accordance with, the manufacturer's installation instructions provided with the damper. A plastic grille shall be installed in accordance with installation instructions.
BROAN-NUTONE L L C — Model RDFUWT

5I. **Alternate Ceiling Damper* —** Ceiling damper & fan. Max nom area shall be 79 sq in. with the length not to exceed 10 in. and the width not to exceed 7-15/16 in. Aggregate damper openings shall not exceed 40 sq in. per 100 sq ft of ceiling area. Damper shall be installed in combination with one of the fan models described in, and in accordance with, the manufacturer's installation instructions provided with the damper. A metallic grille shall be installed in accordance with installation instructions.
BROAN-NUTONE L L C — Models RDJ1 and RDH

5J. **Alternate Ceiling Damper* —** Ceiling damper & fan assembly. Max nom area shall be 87 sq in. with the length not to exceed 9 in. and the width not to exceed 9-11/16 in. Aggregate damper openings shall not exceed 44 sq in. per 100 sq ft of ceiling area. Damper shall be installed in combination with one of the fan models described in, and in accordance with, the manufacturer's installation instructions provided with the damper. A plastic grille shall be installed in accordance with installation instructions.
BROAN-NUTONE L L C — Model RDMWT

5K. **Alternate Ceiling Damper* —** Ceiling damper & fan assembly. Max nom area shall be 87 sq in. with the length not to exceed 9 in. and the width not to exceed 9-11/16 in. Aggregate damper openings shall not exceed 44 sq in. per 100 sq ft of ceiling area. Damper shall be installed in combination with one of the fan models described in, and in accordance with, the manufacturer's installation instructions provided with the damper. A plastic grille shall be installed in accordance with installation instructions.
BROAN-NUTONE L L C — Model RDMWT2

6. **Furring Channels —** Resilient channels formed of 25 MSG thick galv steel. Installed perpendicular to the trusses (Item 2), spaced a max of 16 in. OC when no insulation (Item 3 or 3A) is fitted in the concealed spaced, or a max of 12 in. OC when insulation (Item 3 or 3A) is fitted in the concealed space, draped over the resilient channel/gypsum board ceiling membrane, or when insulation (Item 3B, 3D or 3E) is applied to the underside of the roofing system (Item 1). Two courses of resilient channel positioned 6 in. OC at wallboard butt-joints (3 in. from each end of wallboard). Channels oriented opposite at wallboard butt-joints. Channel splices overlapped 4 in. beneath wood trusses. Channels secured to each truss with 1-1/4 in. long Type S screws.

6A. **Steel Framing Members* —** (Not Shown) — As an alternate to Item 6, furring channels and Steel Framing Members as described below:
a. **Furring Channels —** Formed of No. 25 MSG galv steel. 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced 16 in. OC perpendicular to trusses when no insulation (Items 3 or 3A) is fitted in the concealed space or 12 in. OC when insulation (Items 3 or 3A) is fitted in the concealed space, draped over the furring channel/gypsum board ceiling membrane or 24 in. OC when insulation (Items 3 or 3A) is fitted in the concealed space, draped over the furring channel/gypsum board ceiling membrane and a second layer of gypsum board is attached as described in Item 7 for steel framing members. Channels secured to trusses as described in Item 6Ab. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap.

b. **Steel Framing Members —** Used to attach furring channels (Item a) to trusses (Item 2). Clips spaced 48 in. OC. RSIC-1 and RSIC-1 (2.75) clips secured to alternating trusses with No. 8 by 2-1/2 in. coarse drywall screw through the center grommet. RSIC-V and RSIC-V (2.75) clips secured to alternating trusses with No. 8 by 1-1/2 in. coarse drywall screw through the center hole. Furring channels are

friction fitted into clips. RSIC-1 and RSIC-V clips for use with 2-9/16 in. wide furring channels. RSIC-1 (2.75) and RSIC-V (2.75) clips for use with 2-23/32 in. wide furring channels. Adjoining channels are overlapped as described in Item 6Aa. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping No. 6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Additional clips required to hold furring channel that supports the gypsum board butt joints, as described in Item 7.
PAC INTERNATIONAL L L C — Types RSIC-1, RSIC-V, RSIC-1 (2.75), RSIC-V (2.75).

6B. **Steel Framing Members* —** (Not Shown) — As an alternate to Items 6 and 6A.
a. **Furring Channels —** Hat-shaped furring channels, 7/8 in. deep by 2-5/8 in. wide at the base and 1-1/4 in. wide at the face, formed from No. 25 ga. galv steel, spaced max 16 in. OC perpendicular to trusses and Cold Rolled Channels (Item 6Bb). Furring channels secured to Cold Rolled Channels at every intersection with a 1/2 in. pan head self-drilling screw through each furring channel leg. Ends of adjoining channels overlapped 4 in. and tied together with two double strand No. 18 SWG galv steel wire ties, one at each end of overlap. Supplemental furring channels at base layer and outer layer gypsum board butt joints are not required. Batts and Blankets draped over furring channels as described in Item 3. Two layers of gypsum board attached to furring channels as described in Item 7.

b. **Cold Rolled Channels —** 1-1/2 in. by 1/2 in., formed from No. 16 ga. galv steel, positioned vertically and parallel to trusses, friction-fitted into the channel caddy on the Steel Framing Members (Item 6Bd). Adjoining lengths of cold rolled channels lapped min. 6 in. and wire-tied together with two double strand 18 SWG galv steel wire ties, one at each end of overlap.

c. **Blocking —** Where truss design does not permit direct, full contact of the hanger bracket, a piece of nominal 2 by 4 in. lumber (blocking), min. 6 in. long to permit full contact of the hanger bracket, to be secured vertically to the side of the truss (Item 2) at the top and bottom of the blocking at each Steel Framing Member (Item 6Bd) location.

d. **Steel Framing Members* —** Hangers spaced 48 in. OC. max along truss, and secured to the Blocking (Item 6Bc) on alternating trusses with a single 5/16 in. by 2 in. hex head lag bolt or four #6 1-1/4 in. drywall screws through mounting hole(s) on the hanger bracket. The two 1/4 in. long steel teeth on the hanger are embedded in the side of the blocking. Hanger positioned on blocking and leveling bolt height adjusted such that furring channels are flush with bottom of trusses before gypsum board installation. Spring gauge of hanger chosen per manufacturer's instructions.
KINETICS NOISE CONTROL INC — Type ICW.

6C. **Steel Framing Members* —** (Not Shown) — As an alternate to Items 6, 6A and 6B.
a. **Furring Channels —** Formed of No. 25 MSG galv steel, 2-3/8 in. wide by 7/8 in. deep installed perpendicular to wood structural members. Channels spaced a max of 16 in. OC when no insulation (Item 3 or 3A) is fitted in the concealed space or a max of 12 in. OC when insulation (Item 3 or 3A) is fitted in the concealed space. Channels secured to trusses as described in Item 6Cb. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire near each end of overlap.

b. **Steel Framing Members* —** Used to attach furring channels (Item 6Ca) to trusses (Item 2). Clips secured to the bottom chord of each truss (48 in. OC) with one No. 8 by 2-1/2 in. long coarse drywall screw through center grommet. Furring channels are friction fitted into clips. Adjoining channels are overlapped as described in Item 6Ca. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping No. 6 framing screws, min 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Additional clips required to hold furring channel that supports the gypsum board butt joints, as described in Item 7.
PLITEQ INC — Type Genie Clip

6D. **Steel Framing Members* —** (Not Shown) — As an alternate to Items 6, 6A, 6B and 6C.
a. **Main runners —** Installed perpendicular to trusses — Nom 10 or 12 ft long, 15/16 in. or 1-1/2 in. wide face, spaced 4 ft OC. Main runners hung a min of 2 in. from bottom chord of trusses with 12 SWG galv steel wire. Wires located a max of 48 in. OC.

b. **Cross tees or channels —** Nom 4 ft long, 15/16 in. or 1-1/2 in. wide face or cross channels, nom 4 ft long, 1-1/2 wide face, installed perpendicular to the main runners, spaced 16 in. OC. Additional cross tees or channels used at 8 in. from each side of butted gypsum

board end joints. The cross tees or channels may be riveted or screw-attached to the wall angle or channel to facilitate the ceiling installation.

c. **Wall angles or channels —** Used to support steel framing member ends and for screw-attachment of the gypsum wallboard — Min 0.016 in. thick painted or galvanized steel angle with 1 in. legs or min. 0.016 in. thick painted or galvanized steel channel with a 1 by 1-1/2 by 1 in. profile, attached to walls at perimeter of ceiling with fasteners 16 in. OC.
CGC INC — Type DGL or RX

USG INTERIORS LLC — Type DGL or RX

6E. **Alternate Steel Framing Members* —** (Not Shown) — As an alternate to items 6, 6A, 6B, and 6C, furring channels and Steel Framing Members as described below.
a. **Furring Channels —** Formed of No. 25 MSG galv steel, 2-5/8 in. wide by 7/8 in deep, spaced 16 in OC, perpendicular to trusses. When insulation, Items 3 or 3A is used, the furring channel spacing shall be reduced to 12 in. OC. Channels secured to joists as described in Item b.

b. **Steel Framing Members* —** Used to attach furring channels (Item a) to the wood trusses (Item 2). Clips spaced at 48" OC and secured to the bottom of the trusses with one 2 in. Coarse Drywall Screw with 1 in. diam washer through the center hole. Furring channels are then friction fitted into clips. Ends of channels are overlapped 6" and tied together with double strand of No. 18 AWG galvanized steel wire. Additional clips are required to hold the Gypsum Butt joints as described in Item 7.
STUDCO BUILDING SYSTEMS — RESILMOUNT Sound Isolation Clips - Type A237 or A237R

6F. **Steel Framing Members* —** (Not Shown) — As an alternate to Items 6 through 6E- Not for use with Items 3 or 3A. Main runners nom 12 ft long, spaced 72 in. OC. Main runners suspended by min 12 SWG galv steel hanger wires spaced 48 in. OC. Cross tees, nom 6 ft long, installed perpendicular to main runners and spaced 24 in. OC. Additional 6 ft long cross tees required at each gypsum board end joint with butted gypsum board end joints centered between cross tees spaced 8 in. OC. The main runners and cross tees may be riveted or screw attached to the wall angle or channel to facilitate the ceiling installation.
USG INTERIORS LLC — Type DGL or RX

6G. **Resilient Channels —** For Use With Item 7B - Formed from min 25 MSG galv steel installed perpendicular to trusses and spaced 16 in. OC. Channels secured to each truss with 1-5/8 in. long Type S bugle head steel screws. Channels overlapped 4 in. at splices. Two channels, spaced 6 in. OC, oriented opposite each gypsum panel end joint. Additional channels shall extend min 6 in. beyond each side edge of panel. Insulation, Item 3C is applied over the resilient channel/gypsum panel ceiling membrane.

6H. **Alternate Steel Framing Members* —** (Not Shown) — As an alternate to items 6 through 6G, furring channels and Steel Framing Members as described below.
a. **Furring Channels —** Formed of No. 25 MSG galv steel, 2-1/2 in. wide by 7/8 in deep, spaced 16 in OC, perpendicular to trusses. When insulation, Items 3 or 3A is used, the furring channel spacing shall be reduced to 12 in. OC. Channels secured to joists as described in Item b.

b. **Steel Framing Members* —** Used to attach furring channels (Item a) to the wood trusses (Item 2). Clips spaced at 48" OC and secured to the bottom of the trusses with one 2-1/2 in. Coarse Drywall Screw with 1 in. diam washer through the center hole. Furring channels are then friction fitted into clips. Ends of channels are overlapped 6" and tied together with double strand of No. 18 AWG galvanized steel wire. Additional clips are required to hold the Gypsum Butt joints as described in Item 7.
REGUPOL AMERICA — Type SonusClip

7. **Gypsum Board* —** One layer of nom 5/8 in. thick by 48 in. wide boards, installed with long dimension parallel to trusses. Attached to the resilient channels using 1 in. long Type S bugle-head screws. Screws spaced a max of 12 in. OC along butted end-joints and in the field when no insulation (Item 3 or 3A) is fitted in the concealed spaced, or a max of 8 in. OC along butted end-joints and in the

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Certification: 09.13.2024 BID SET

Consultant Logo:

Key Plan:

THE LANDING 3.0

NEW CONSTRUCTION
555 S. HARRISON ST.
Fort Wayne, Indiana 46802

REVISION

No.	Date	Revision

DRAWING CONTENTS:
UL ASSEMBLIES (P522)

ISSUE DATE: 09.13.2024
PROJECT NO. 23029

DRAWING NO.
G-121g

Plot Time/Date: 9/12/2024, 2:48:21 PM
Drawing Name: Template.rte

UL P522 SPECIFICATIONS CONT.

field when insulation (Item 3 or 3A) is fitted in the concealed space, draped over the resilient channel/gypsum board ceiling membrane. When insulation (Item 3B, 3D or 3E) is installed in the concealed space, spray-applied to the underside of the roofing system (Item 1), screws are spaced a max of 8 in. OC along resilient channels, fasteners are increased in length to 1-1/4 in, and gyps board butt joints shall be staggered min. 2 ft within the assembly, and occur between the main furring channels.

When **Steel Framing Members*** (Item 6A or 6C) are used, sheets installed with long dimension perpendicular to furring channels and side joint of sheet located beneath trusses. Gypsum board screws are driven through channel spaced 12 in. OC in the field when no insulation (Item 3 or 3 is fitted in the concealed space, or 8 in. OC in the field when insulation (Item 3 or 3A) is fitted in the concealed space, draped over the furring channel/gypsum board ceiling membrane. Gypsum board butt joints shall be staggered min. 2 ft within the assembly, and occur between the m furring channels. At the gypsum board butt joints, each end of the gypsum board shall be supported by a single length of furring channel equa the width of the wallboard plus 6 in. on each end. The furring channels shall be spaced approximately 3-1/2 in. OC, and be attached to the truss with one clip at each end of the channel. Screw spacing along the butt joint to attach the gypsum board to the furring channels shall be 8 in. O Second (outer) layer of gypsum board required when furring channels (Item 6A, a) are spaced 24 in. OC and insulation is fitted in the concealed space, draped over the furring channel/gypsum board ceiling membrane. Outer layer of gypsum board attached to the furring channels using 1 5/8 in. long Type S bugle-head screws spaced 8 in. OC at butted joints and 12 in. OC in the field. Butted end joints of outer layer to be offset a minimum of 8 in. from base layer end joints. Butted side joints of outer layer to be offset minimum 18 in. from butted side joints of base layer.

When **Steel Framing Members** (Item 6B) are used, two layers of nom 5/8 in. thick, 4 ft wide gypsum board are installed with long dimensions perpendicular to furring channels (Item 6Ba). Base layer attached to the furring channels using 1 in. long Type S bugle head steel screws spaced in. OC along butted end joints and 12 in. OC in the field of the board. Butted end joints centered on the continuous furring channels. Butted ba layer end joints to be offset a min of 16 in. in adjacent courses. Outer layer attached to the furring channels using 1-5/8 in. long Type S bugle h steel screws spaced 8 in. OC at butted end joints and 12 in. OC in the field. Butted end joints centered on the continuous furring channels and offset a min of 16 in. from butted end joints of base layer. Butted side joints of outer layer to be offset min 16 in. from butted side joints of base layer.

When **Steel Framing Members** (Item 6C) are used, one layer of nom 5/8 in. thick, 4 ft wide gypsum board is installed with long dimensions perpendicular to furring channels. Gypsum board secured to furring channels with nom 1 in. long Type S bugle-head steel screws spaced 8 in. C in the field of the board. Gypsum board butted end joints shall be staggered minimum 72 in. At the gypsum board butt joints, each end of each gypsum board shall be supported by a single length of furring channel equal to the width of the gypsum board plus 3 in. on each end, spaced approximately 2 in. in from joint. Screw spacing along the gypsum board butt joint shall be 8 in. OC. Butt joint furring channels shall be attache with a RESILMOUNT Sound Isolation Clip secured to underside of every truss that is located over the butt joint. Over all Gypsum Board side join approximately 20 in. lengths of furring channel shall be installed parallel to trusses (Item 2) between main furring channels. Side joint furring channels shall be attached to underside of the joist with RESILMOUNT Sound Isolation Clips - located approximately 2 in. from each end of the approximate 20 in. length of channel. Both Gypsum Boards at side joints fastened into channel with screws spaced 8 in. OC, approximately 1/2 i from joint edge.

When **Steel Framing Members** (Item 6E) are used, one layer of nom 5/8 in. thick, 4 ft wide gypsum board is installed with long dimensions perpendicular to furring channels. Gypsum board secured to furring channels with nom 1 in. long Type S bugle-head steel screws spaced 8 in. C in the field of the board. Gypsum board butted end joints shall be staggered minimum 48 in. and centered over main furring channels. At the gypsum board butt joints, each end of each gypsum board shall be supported by a single length of furring channel equal to the width of the gypsum board plus 3 in. on each end. The two support furring channels shall be spaced approximately 3 in. in from end joint. Screw spacing alc the gypsum board butt joint and along both additional channels shall be 8 in. OC. Additional screws shall be placed in the adjacent section of gypsum board into the aforementioned 3 in. extension of the extra butt joint channels as well as into the main channel that runs between. Butt joint furring channels shall be attached with one RESILMOUNT Sound Isolation Clip at each end of the channel.

When alternate **Steel Framing Members*** (Item 6F) are used, one layer of nom 5/8 in. thick, 4 ft wide gypsum board sheets installed with long dimension (side joints) perpendicular to the 6 ft long cross tees with the end joints staggered min 4 ft and centered between cross tees which a spaced 8 in. OC. Gypsum board side joints may occur beneath or between main runners. Prior to installation of the gypsum board sheets, backe strips consisting of nom 7-3/4 in. wide pieces of gypsum board are to be laid atop the cross tee flanges and centered over each butted end joir location. The backer strips are to be secured to the flanges of the cross tees at opposite corners of the backer strip with hold down clips to prev the backer strips from being uplifted during screw-attachment of the gypsum board sheets. Gypsum board fastened to cross tees with 1 in. dry screws spaced 1 in. and 4 in. from the side joints and max 8 in. OC in the field of the board. The butted end joints are to be secured to the back strip with No. 10 by 1-1/2 in. long Type G laminating screws located 1 in. from each side of the butted end joint and spaced 1 in. and 4 in. from side joints and max 8 in. OC in the field of the board.

When **Steel Framing Members** (Item 6H) are used, one layer of nom 5/8 in. thick, 4 ft wide gypsum board is installed with long dimensions perpendicular to furring channels. Gypsum board secured to furring channels with nom 1 in. long Type S bugle-head steel screws spaced 8 in. C in the field of the board. Gypsum board butted end joints shall be staggered minimum 48 in. and centered over main furring channels. At the gypsum board butt joints, an additional single length of furring channel shall be installed and be spaced approximately 3 in. from the butt joint in. from the continuous furring channels) to support the floating end of the gypsum board. Each of these shorter sections of furring channel sh extend one truss beyond the width of the gypsum panel and be attached to the adjacent trusses with one SonusClip at every truss involved wit the butt joint.

CGC INC — Types C, IP-X2, IPC-AR

UNITED STATES GYPSUM CO — Types C, IP-X2, IPC-AR

USG BORAL DRYWALL SFZ LLC — Type C

USG MEXICO S A DE C V — Types C, IP-X2, IPC-AR

7A. **Gypsum Board* —** For use with Steel Framing Members (Item 6D) when Batts and Blankets* (Item 3) are not used - One layer of nom 5/8 in. thick by 48 in. wide boards, installed with long dimension parallel to the main runners. Gypsum board fastened to each cross tee or channel with five wallboard screws, with one screw located at the midspan of the cross tee or channel, one screw located 12 in. from and on each side of the cross tee or channel mid span and one screw located 1-1/2 in. from each gypsum board side joint. Except at wallboard end joints, wallboard screws shall be located on alternating sides of cross tee flange. At gypsum board end joints, gypsum board screws shall be located 1/2 in. from the joint. Gypsum board fastened to main runners with wallboard screws 1/2 in. from side joints, midway between intersections with cross tees or channels (16 in. OC). End joints of adjacent gypsum board sheets shall be staggered not less than 32 in. Gypsum board sheets screw attached to leg of wall angle with wallboard screws spaced 12 in. OC. Joints treated as described in Item 7. For use with **Steel Framing Members*** (Item 6D) when **Batts and Blankets*** (Item 3) are used - Ratings limited to 1 Hour - 5/8 in. thick, 4 ft wide; installed with long dimension perpendicular to cross tees with side joints centered along main runners and end joints centered along cross tees. Fastened to cross tees with 1 in. long steel gypsum board screws spaced 8 in. OC in the field and 8 in. OC along end joints. Fastened to main runners with 1 in. long gypsum board screws spaced midway between cross tees. Screws along sides and ends of boards spaced 3/8 to 1/2 in. from board edge. End joints of the sheets shall be staggered with spacing between joints on adjacent boards not less than 4 ft OC.
CGC INC — Type C or IP-X2

UNITED STATES GYPSUM CO — Type C or IP-X2

USG BORAL DRYWALL SFZ LLC — Type C

USG MEXICO S A DE C V — Type C or IP-X2

7B. **Gypsum Board* —** For use with Items 3C and 6G. Nom 5/8 in. thick, 48 in. wide gypsum panels installed with long dimension perpendicular to resilient channels. Gypsum panels secured with 1 in. long Type S bugle head steel screws spaced 8 in. OC and located a min of 1/2 in. from side joints and 3 in. from the end joints. Finish Rating with this ceiling system is 20 min.
CGC INC — Type ULIX

UNITED STATES GYPSUM CO — Type ULIX

8. **Finishing System —** (Not Shown) — Vinyl, dry or premixed joint compound, applied in two coats to joints and screw-heads; paper tape, 2 in. wide, embedded in first layer of compound over all joints. As an alternate, nom 3/32 in. thick veneer plaster may be applied to the entire surface of gypsum board. **Alternate Ceiling Membrane** — Not Shown.

9. **Netting —** Fibrous, woven netting material fastened to underside of each joist with staples, with side joints overlapped.

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

Last Updated on 2024-02-16

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Fort Wayne, Indiana 46802
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www.MKMdesign.com

Certification: 09.13.2024 BID SET

JEFFERY R. BENDON REGISTERED No. AR11200057 STATE OF INDIANA ARCHITECT

Consultant Logo:

Key Plan:

THE LANDING 3.0

NEW CONSTRUCTION
555 S. HARRISON ST.
Fort Wayne, Indiana 46802

REVISION		
No.	Date	Revision

DRAWING CONTENTS:
UL ASSEMBLIES (P522)

ISSUE DATE: 09.13.2024
PROJECT NO. 23029

DRAWING NO.
G-121h

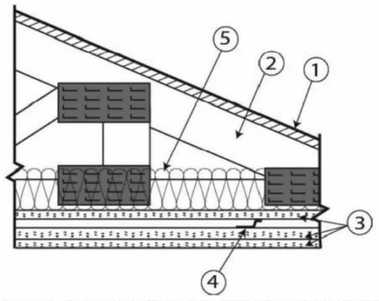
UL P571 SPECIFICATIONS

Design No. P571
October 01, 2018

Unrestrained Assembly Rating — 2 Hr.

This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used — See Guide BXUV or BXUV7

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**



1. **Roofing System* —** Any UL Class A, B or C Roofing System **(TGFU)** or Prepared Roof Covering **(TFWZ)** acceptable for use over nom 15/32 in. thick wood structural panels, min. grade "C-D" or "Sheathing". Nom 15/32 in. thick wood structural panels secured to trusses with No. 6d ringed shank nails. Nails spaced 12 in. OC along each truss. Staples having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails. Construction adhesive is optional and may be used with either nails or staples.

2. **Trusses —** Pitch or Parallel chord trusses, spaced a max of 24 in. OC, fabricated from nom 2 by 4 lumber, with lumber oriented vertically or horizontally. Truss members secured together min. 0.0356 in. thick galv steel plates. Plates have 5/16 in. long teeth projecting perpendicular to the plane of the plate. The teeth are in pairs facing each other (made by the same punch), forming a split tooth type plate. Each tooth has a chisel point on its outside edge. These points are diagonally opposite each other for each pair. The top half of each tooth has a twist for stiffness. The pairs are repeated on approximately 7/8 in. centers with four rows of teeth per inch of plate width. Where the truss intersects with the interior face of the exterior walls, the min truss depth shall be 3 in. and a min. area in the plane of the truss of 21 sq/ft. Where the truss intersects with the interior face of the exterior walls, batts and blankets shall be firmly packed against the intersection of the bottom chords and the plywood sheathing. Min roof slope of 3/12 unless American Gypsum boards are used, in which case there is no minimum slope.

3. **Gypsum Board* —** Three layers of 5/8 in. thick by 4 ft wide gypsum board. Top layer boards installed with the long dimension perpendicular to trusses with end joints located under bottom of trusses. End joints in adjacent rows shall be staggered on adjacent trusses. Top layer boards secured to bottom chord of trusses with 1-5/8 in. long Type S bugle head screws, spaced max 8 in. OC. Screws located 1-1/2 to 2 in., and 3/4 in. from side and end joints, respectively. Bottom two layers of gypsum board installed perpendicular to furring channels with end joints centered on the furring channels. Middle layer boards secured to each furring channel with 1 or 1-1/4 in. long Type S-12 bugle head steel screws spaced max 8 in. OC. Screws located 1-1/2 to 2 in. and 5/8 to 3/4 in. from side and end joints, respectively. Face layer boards secured to each furring channel through the middle layer with 1-5/8 or 1-7/8 in. long Type S-12 bugle head steel screws, spaced a max of 8 in. OC. Screws located 1-1/2 to 2 in. and 5/8 to 3/4 in. from side and end joints, respectively. End joints and side joints of the face layer boards shall be staggered a min of 16 in. from the joints in the middle layer. If end joints of the face layer boards are not centered on the furring channels, the end of boards at the end joint shall be attached to the middle layer boards with 1-1/2 in. long Type G steel screws spaced 8 in. OC and located 1-1/2 in. from the end joint. All screws shall be driven no further than flush with the face of the boards in order not to damage the core of the boards.

AMERICAN GYPSUM CO — Type AG-C

4. **Furring Channels —** Resilient channels, 1/2 in. deep, or inverted hat type furring channels, 7/8 in. deep, formed from 0.019 in. thick galv steel, spaced 16 in. OC perpendicular to trusses. Channels secured to each truss with 1-7/8 in. long Type S steel screws. When insulation (Items 5 or 5A) is draped over or loose laid over the furring channel/gypsum board ceiling membrane, the furring channel spacing shall be reduced to 12 in. OC.

4A. **Steel Framing Members* —** (Not Shown) — As an alternate to Item 4, furring channels and **Steel Framing Members*** as described below:

a. **Furring Channels —** Formed of No. 25 MSG galv steel, 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to trusses. When insulation (Items 5 or 5A) is draped over or loose laid over the furring channel/gypsum board ceiling membrane, the furring channel spacing shall be reduced to 12 in. OC. Channels secured to trusses as described in Item b. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap.

b. **Steel Framing Members* —** Used to attach furring channels (Item a) to trusses (Item 2). Clips spaced 48 in. OC. RSIC-1 and RSIC-1 (2.75) clips secured to alternating trusses with No. 8 x 2-1/2 in. coarse drywall screw through the center grommet. RSIC-V and RSIC-V (2.75) clips secured to alternating trusses with No. 8 x 1-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips. RSIC-1 and RSIC-V clips for use with 2-9/16 in. wide furring channels. RSIC-1 (2.75) and RSIC-V (2.75) clips for use with 2-23/32 in. wide furring channels. Adjoining channels are overlapped as described in Item a. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping No. 6 framing screws, min 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel.
PAC INTERNATIONAL L L C — Types RSIC-1, RSIC-V, RSIC-1 (2.75), RSIC-V (2.75)

4B. **Steel Framing Members* —** (Not Shown) — As an alternate to Item 4, furring channels and Steel Framing Members as described below:

a. **Furring Channels —** Formed of No. 25 MSG galv steel. 2-3/8 in. wide by 7/8 in. deep, spaced 24 in. OC, perpendicular to joists. When insulation (Items 5 or 5A) is draped over or loose laid over the furring channel/gypsum board ceiling membrane, the furring channel spacing shall be reduced to 12 in. OC. Channels secured to joists as described in Item b. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap.

b. **Steel Framing Members* —** Used to attach furring channels (Item a) to the trusses (Item 2). When trusses are spaced 16 or 24 in. OC, clips spaced a max of 48 in. OC. Genie Clips secured to alternating joists with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips.
PLITEQ INC — Type Genie Clip

4C. **Alternate Steel Framing Members* —** (Not Shown) — As an alternate to Item 4, furring channels and Steel Framing Members as described below:

a. **Furring Channels —** Formed of No. 25 MSG galv steel, 2-5/8 in. wide by 7/8 in deep, spaced 24 in OC, perpendicular to trusses. When insulation (Items 5 or 5A) is applied over the resilient channel/gypsum panel ceiling membrane, the resilient channel spacing shall be reduced to 12 in. OC. Channels secured to joists as described in Item b.

b. **Steel Framing Members* —** Used to attach furring channels (Item a) to the wood trusses (Item 2). Clips spaced at 48" OC and secured to the bottom of the trusses with one 2 in. Coarse Drywall Screw 1 in. diam washer through the center hole. Furring channels are then friction fitted into clips. Ends of channels are overlapped 6" and tied together with double strand of No. 18 AWG galvanized steel wire.
STUDCO BUILDING SYSTEMS — RESILMOUNT Sound Isolation Clips - Types A237 or A237R

5. **Batts and Blankets* —** Any glass fiber insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance. Insulation secured against the roof, held suspended in the concealed space or draped over the resilient channels (or furring channels) and gypsum panel membrane. Minimum density of 0.5 pcf with no limit on overall thickness.

5A. **Loose Fill Material* —** As an alternate to Item 5, Any loose fill material bearing the UL Classification Marking for Surface Burning Characteristics, having a min density of 0.5 pcf and installed with no limit on overall thickness.

6. **Finishing System —** (Not Shown) — Vinyl, dry or premixed joint compound, applied in two coats to joints and screw-heads. Nom 2 in. wide paper tape embedded in first layer of compound over all joints. As an alternate, nom 3/32 in. thick veneer plaster may be applied to the entire surface of gypsum board.

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

Last Updated on 2018-10-01

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Certification: 09.13.2024 BID SET

Consultant Logo:

Key Plan:

THE LANDING 3.0

NEW CONSTRUCTION
555 S. HARRISON ST.
Fort Wayne, Indiana 46802

REVISION		
No.	Date	Revision

DRAWING CONTENTS:
UL ASSEMBLIES (P571)

ISSUE DATE: 09.13.2024
PROJECT NO. 23029

DRAWING NO.
G-121i

Plot Time/Date: 9/13/2024 2:48:22 PM
Drawing Name: temp.pln

UL V 322 SPECIFICATIONS

UL Product iQ™

BXUV.V332 - Fire-resistance Ratings - ANSI/UL 263

PANEL REY
Drywall Solutions

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States

BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

See General Information for Fire-resistance Ratings - ANSI/UL 263 Certified for United States
Design Criteria and Allowable Variances

See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada
Design Criteria and Allowable Variances

Design No. V332

March 13, 2020

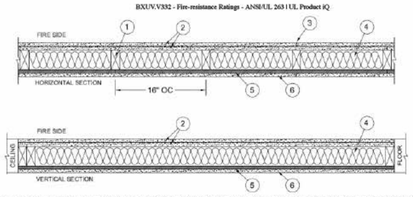
Bearing Wall Rating — 2 Hr

(EXPOSED TO FIRE ON INTERIOR FACE ONLY)

Finish Rating — 42 min

Loaded Per 2012 NDS Supplement, ASD Method, Wall Braced Mid-Height

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**



1. **Framing Members*** — Pressure-treated, fire-retardant Wood Studs - nom. 2 by 4 in., spaced 16 in. OC in, effectively fire stopped. As an option, nominal 2 by 6 in., spaced 24 in. OC effectively fire-stopped.
HOOVER TREATED WOOD PRODUCTS INC — Pyro-Guard treated lumber

2. **Gypsum Board*** — Nom 5/8 in. thick, 4 ft. wide, two layers applied vertically. Base layer nailed to wood studs and bearing plates 6 in. OC. with 6d cement coated nails, 1-7/8 in. long, 0.0915 in. shank diam. and 1/4 in. diam. head. The face layer, with joints staggered from base layer, nailed to the studs and bearing plates over the base layer, 8 in. OC with 8d cement coated nails, 2-3/8 in. long, 0.113 in. shank diam. 9/32 in. diam. head.
AMERICAN GYPSUM CO (View Classifications) — Types AGX-1, AG-C, LightRoc

BEIJING NEW BUILDING MATERIALS PUBLIC LTD CO (View Classifications) — Type DBX-1

CABOT MANUFACTURING ULC (View Classifications) — Type X, Moisture Resistant Type X, Gypsum Sheathing Type X, Mold & Mildew Resistant Type X, Mold & Mildew Resistant AR Type X, Type Blueglass Exterior Sheathing

CERTAINTEED GYPSUM INC (View Classifications) — Type X, Type X-1, Easi-Lite Type X-2, Type EGRG, GlasRoc, GlasRoc-2, SilentFX

CGC INC (View Classifications) — Type AR, Type IP-X1, Type IP-X2, Type IP-AR, Type IPC-AR, Type SCX, Type SHX, Type WRX, Type C, Type ULIX

CERTAINTEED GYPSUM INC (View Classifications) — Type LGFC-C/A, Type LGFC2A, Type LGFC-WD

GEORGIA-PACIFIC GYPSUM L L C (View Classifications) — Types GPFS1, Type GPFS2, Type GPFS6, Type DA, Type DAPC, Type DGG, Type DD, Type DS, Type DAR Type 5, Type 6

NATIONAL GYPSUM CO (View Classifications) — Type FSW, FSK, FSMR-C, FSL, FSLX, FSK-G, Type FSW-G, Type FSW-5, Type FSW-6, Type FSK-C, Type FSW-C, eXP-C

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM (View Classifications) — Type PG-2, Type PG-3W, Type PG-3WS, Type PG-4, Type PG-5W, Type PG-5WS, Type PG-6, Type PG-WRS, Type QuietRock ES, Type C

PANEL REY S A (View Classifications) — Type PRX, Type RHX, Type MDX, Type, ETX, Type GREX, Type GRIX

SIAM GYPSUM INDUSTRY (SARABURI) CO LTD (View Classifications) — Type EX-1

THAI GYPSUM PRODUCTS PCL (View Classifications) — Type X, Type C

UNITED STATES GYPSUM CO (View Classifications) — Type AR, Type IP-X1, Type IP-X2, Type IP-AR, Type IPC-AR, Type SCX, Type SGX, Type SHX, Type WRX, Type C, Type ULIX

USG BORAL DRYWALL SFZ LLC — Types C, SCX, SGX

USG MEXICO S A DE C V (View Classifications) — Type AR, Type IP-X1, Type IP-X2, Type IP-AR, Type IPC-AR, Type SCX, Type SHX, Type WRX, Type C

3. **Joints and Nailheads** — Gypsum board joints covered with tape and joint compound. Nail heads covered with joint compound.

4. **Batts and Blankets*** — Faced or unfaced mineral fiber insulation, 3-1/2 in. thick, nom 3.0 pcf, pressure fit in the wall cavity between stud, plates, and cross bracing. Insulation may be applied in multiple layers to achieve final thickness.
See **Batts and Blankets*** (BZJZ) category for names of Classified manufacturers.

5. **Building Units*** — Fire treated or coated plywood panels installed vertically nailed to the wood framing with 1-7/8 in. long, 6d nails, spaced 6 in. OC. on the perimeter and 12 in. OC. in the field. Vertical and horizontal joints are backed by framing. Panels provided in nominal size of 48 in. wide by 96 in. long.
LOUISIANA-PACIFIC CORP — 7/16 in. thick Type Blazeguard 2-Side

HOOVER TREATED WOOD PRODUCTS INC — 15/32 in. thick Pyro-Guard treated plywood

LOUISIANA-PACIFIC CORP — 7/16 in. thick Type LP FlameBlock 2-Side

5A. **Foamed Plastic*** — (Optional — for use over Building Units, Item 5) — Foamed plastic boards, faced or unfaced, may or may not be bonded to fiberboard, plywood or OSB and placed between building units (Item 5) and exterior facings (Item 6).
HUNTER PANELS, A DIVISION OF CARLISLE CONSTRUCTION MATERIALS, LLC — "Xci Class A", "Xci 286", "Xci Foil (Class A)" , "Xci CG", "Xci Foil", "Xci CG NH", "Xci Foil NH"

RMAX, A BUSINESS UNIT OF SIKA CORPORATION — Types "TSX-8500", "ECOMAXci FR", "TSX-8510", "ECOMAX xi FR White", "ECOMAXci", "ECOMAXci FR Air Barrier", "Thermasheath-XP", "Thermasheath", "Durasheath", "Thermasheath-3", "Durasheath-3".

5B. **Building Units*** — (Optional — for use over Building Units, Item 5) — Polyisocyanurate composite foamed plastic insulation boards to be placed between building units (Item 5) and exterior facings (Item 6). Attached to studs with min. 8d nails or min. 2-1/2 in. long Type W screws.
HUNTER PANELS, A DIVISION OF CARLISLE CONSTRUCTION MATERIALS, LLC — "Xci NB", "Xci Ply"

RMAX, A BUSINESS UNIT OF SIKA CORPORATION — Types "Thermasheath-SI", "ECOBASEci", "ECOMAXci FR Ply", "ThermaBase-CI", "ECOMAXci Ply" polyisocyanurate composite foamed plastic insulation boards

5C. **Foamed Plastic*** — (Optional - for use over Building Units, Item 5) — Expanded polystyrene insulation installed to a maximum nominal density of 2.0 lb/ft³ to be placed between Building Units (Item 5) and Exterior Facings (Item 6).

BASF CORP STYRENIC FOAMS DIV — Type Neopor "F" Series

6. **Exterior Facings** — Any exterior facing, as authorized by the Authority Having Jurisdiction and installed in accordance with the manufacturer's installation instructions. Exterior facings may include, but are not limited to:

6A. **Molded Plastic*** — Solid vinyl siding mechanically secured to framing members in accordance with manufacturer's recommended installation details.

6B. **Brick** — Brick veneer, meeting the requirements of local code agencies. Brick veneer attached to the studs with corrugated metal wall ties attached to each stud with 8d cement coated nails, every sixth course of bricks.

6C. **Particle Board Siding*** — Oriented strand board, wafer board, or hard board exterior building sidings including patterned panels.

6D. **T1-11 Plywood** — American Plywood Association rated siding series303 including textures, rough sawn, MDO, brushed, channel grooved, and lap siding.

6E. **Cementitious Stucco** — Portland cement or synthetic stucco systems with self-furring metal lath or adhesive base coat. Thickness from 3/8 in. to 3/4 in. depending on system.

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

Last Updated on 2020-03-13

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Certification: 09.13.2024 BID SET

Consultant Logo:

Key Plan:

THE LANDING 3.0

NEW CONSTRUCTION
555 S. HARRISON ST.
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REVISION		
No.	Date	Revision

DRAWING CONTENTS:
UL ASSEMBLIES (V322)

ISSUE DATE: 09.13.2024
PROJECT NO. 23029

DRAWING NO.
G-121j

Plot Time/Date: 9/13/2024 2:48:23 PM
Drawing Name: template.rte

U305 SPECIFICATIONS

Design No. U305

October 06, 2020

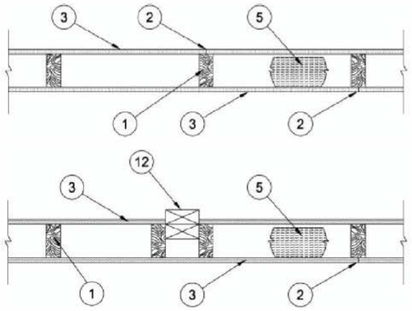
Bearing Wall Rating — 1 Hr

Finish Rating — See Items 3, 3A, 3D, 3E, 3F, 3G, 3H, 3J and 3L.

STC Rating - 56 (See Item 9)

This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used — See Guide BXUV or BXUV7

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**



1. **Wood Studs** — Nom 2 by 4 in. spaced 16 in. OC max, effectively firestopped.

2. **Joints and Nail-Heads** — Joints covered with joint compound and paper tape. Joint compound and paper tape may be omitted when square edge boards are used. As an alternate, nom 3/32 in. thick gypsum veneer plaster may be applied to the entire surface of Classified veneer baseboard with the joints reinforced with paper tape. Nailheads exposed or covered with joint compound.

3. **Gypsum Board*** — 5/8 in. thick paper or vinyl surfaced, with beveled, square, or tapered edges, applied either horizontally or vertically. Gypsum panels nailed 7 in. OC with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 15/64 in. diam heads. When used in widths other than 48 in., gypsum panels are to be installed horizontally. For an alternate method of attachment of gypsum panels, refer to Items 6 through 6F, **Steel Framing Members***.

When Items 6, 6B, 6C, 6D, 6E, or 6F, **Steel Framing Members***, are used, gypsum panels attached to furring channels with 1 in. long Type S bugle-head steel screws spaced 12 in. OC.

When Item 6A, **Steel Framing Members***, is used, two layers of gypsum panels attached to furring channels. Base layer attached to furring channels with 1 in. long Type S bugle-head steel screws spaced 12 in. OC. Face layer attached to furring channels with 1-5/8 in. long Type S bugle-head steel screws spaced 12 in. OC. All joints in face layers staggered with joints in base layers. One layer of gypsum board attached to opposite side of wood stud without furring channels as described in Item 3.

When Item 7, resilient channels are used, 5/8 in. thick, 4 ft wide gypsum panels applied vertically. Screw attached furring channels with 1 in. long, self-drilling, self-tapping Type S or S-12 steel screws spaced 8 in. OC, vertical joints located midway between studs.

AMERICAN GYPSUM CO — Types AGX-1(finish rating 23 min.), M-Glass (finish rating 23 min.), Type AGX-11 (finish rating 26 min), Type AGX-12 (finish rating 22 min), Type LightRoc (finish rating 23 min.) or Type AG-C

BEIJING NEW BUILDING MATERIALS PUBLIC LTD CO — Type DBX-1 (finish rating 24 min)

CABOT MANUFACTURING ULC — Type X (finish rating 22 min), 5/8 Type X, Moisture Resistant Type X, Gypsum Sheathing Type X, Mold & Mildew Resistant Type X and Mold & Mildew Resistant AR Type X, Type Blueglass Exterior Sheathing

CERTAINTEED GYPSUM INC — Type C, Type X or Type X-1 (finish rating 26 min); Type EGRG or GlasRoc (finish rating 23 min), GlasRoc-2, Type Habito (finish rating 26 min).

CGC INC — Type AR (finish rating 24 min), Type C (finish rating 24 min), Type IP-AR (finish rating 24 min), Type IPC-AR (finish rating 24 min), Type IP-X1 (finish rating 24 min), Type IP-X2 (finish rating 24 min), Type SCX (finish rating 24 min), Type SHX (finish rating 24 min), Type ULX (finish rating 22 min), Type WRC (finish rating 24 min), Type WRX (finish rating 24 min), Type ULIX (finish rating 20 min)

CONTINENTAL BUILDING PRODUCTS OPERATING CO, L L C — Type LGFC6A (finish rating 34 min), Type LGFC2A, Type LGFC-C/A, Type LGFC-WD, Type LGLLX (finish rating 21 min), Type CLLX (finish rating 24 min)

GEORGIA-PACIFIC GYPSUM L L C — Type 5 (finish rating 26 min), Type 6 (finish rating 23 min), Type 9 (finish rating 26 min), Type C (finish rating 26 min), Type DGG (finish rating 20 min), Type GPFS1 (finish rating 20 min), Type GPFS2 (finish rating 20 min), Type GPFS6 (finish rating 26 min), Type DS, Type DAP, Type DD (finish rating 20 min), Type DA, Type DAPC, Type LS (finish rating 23 min), Type X, Veneer Plaster Base - Type X, Water Rated - Type X, Sheathing - Type X, Soffit - Type X, Type LWX (finish rating 22 min), Veneer Plaster Base-Type LWX (finish rating 22 min), Water Rated-Type LWX (finish rating 22 min), Sheathing Type-LWX (finish rating 22 min), Soffit-Type LWX (finish rating 22 min), Type DGLW (finish rating 22 min), Water Rated-Type DGLW (finish rating 22 min), Sheathing Type- DGLW (finish rating 22 min), Soffit-Type DGLW (finish rating 22 min), Type LWX (finish rating 22 min), Type LW2X (finish rating 22 min), Veneer Plaster Base - Type LW2X (finish rating 22 min), Water Rated - Type LW2X (finish rating 22 min), Sheathing - Type LW2X (finish rating 22 min), Soffit - Type LW2X (finish rating 22 min), Type DGL2W (finish rating 22 min), Water Rated - Type DGL2W (finish rating 22 min), Sheathing - Type DGL2W (finish rating 22 min)

NATIONAL GYPSUM CO — Type FSK (finish rating 20 min), Type FSK-G (finish rating 20 min), Type FSW (finish rating 20 min), Type FSW-2 (finish rating 24 min), Type FSW-3 (finish rating 20 min), Type FSW-5 (finish rating 22 min), Type FSW-G (finish rating 20 min), Type FSK-C (finish rating 20 min), Type FSW-C (finish rating 20 min), Type FSMR-C, Type FSW-6 (finish rating 20 min), Type FSL (finish rating 24 min), Type FSW-8, Type FSLX (finish rating 21 min), Type RSX (finish rating 26 min).

NATIONAL GYPSUM CO — Riyadh, Saudi Arabia — Type FR, or WR.

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Types C, PG-2 (finish rating 20 min), PG-3 (finish rating 20 min), Types PG-3W, PG-5W (finish rating 20 min), Type PG-4 (finish rating 20 min), Type PG-6 (finish rating 23 min), Types PG-3WS, PG-5WS, PGS-WRS (finish rating 20 min), Types PG-3, PG-9 (finish rating 26 min), PG-11 PG-13 (Nails increased to 2 in.), Type PG-C or PI (finish rating 26 min)

PANEL REY S A — Type GREX, GRIX, PRX, PRC, PRC2; Types RHX, Guard Rey, MDX, ETX (finish rating 22 min), PRX2 (finish rating 21 min)

SIAM GYPSUM INDUSTRY (SARABURI) CO LTD — Type EX-1 (finish rating 26 min)

THAI GYPSUM PRODUCTS PCL — Type C, Type X (finish rating 26 min)

UNITED STATES GYPSUM CO — Type AR (finish rating 24 min), Type C (finish rating 24 min), Type FRX-G (finish rating 29 min), Type IP-AR (finish rating 24 min), Type IPC-AR (finish rating 24 min), Type IP-X1 (finish rating 24 min), Type IP-X2 (finish rating 24 min), Type SHX (finish rating 24 min), Type SCX (finish rating 24 min), Type SGX (finish rating 24 min), Type ULX (finish rating 22 min), Type WRX (finish rating 24 min), Type WRC (finish rating 24 min), Type ULIX (finish rating 20 min)

USG BORAL DRYWALL SFZ LLC — Type SGX (finish rating 24 min).

USG MEXICO S A DE C V — Type AR (finish rating 24 min), Type C (finish rating 24 min), Type WRX (finish rating 24 min), Type WRC (finish rating 24 min), Type IP-X1 (finish rating 24 min), Type IP-X2 (finish rating 24 min), Type SHX (finish rating 24 min), Type SCX, Type IP-AR (finish rating 24 min), Type IPC-AR (finish rating 24 min)

3A. **Gypsum Board*** — (As an alternate to Item 3) — 5/8 in. thick gypsum panels, with beveled, square, or tapered edges, applied either horizontally or vertically. Gypsum panels fastened to framing with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a max 8 in. OC, with last screw 1 in. from edge of board. When used in widths of other than 48 in., gypsum boards are to be installed horizontally.

AMERICAN GYPSUM CO — Types AGX-1 (finish rating 25 min.), M-Glass (finish rating 25 min.), AG-C (finish rating 25 min.), LighttRoc (finish rating 25 min.)

CERTAINTEED GYPSUM INC — Type C, Type X or Type X-1 (finish rating 26 min)

CGC INC — Type AR (finish rating 24 min), Type C (finish rating 24 min), Type IP-AR (finish rating 24 min), Type IPC-AR (finish rating 24 min), Type IP-X1 (finish rating 24 min), Type IP-X2 (finish rating 24 min), Type SCX (finish rating 24 min), Type SHX (finish rating 24 min), Type WRC (finish rating 24 min), Type WRX (finish rating 24 min)

NATIONAL GYPSUM CO — Type FSW (finish rating 24 min)

UNITED STATES GYPSUM CO — Type AR (finish rating 24 min), Type SCX (finish rating 24 min), Type SGX (finish rating 24 min), Type C (finish rating 24 min), Type WRX (finish rating 24 min), Type WRC (finish rating 24 min), Type IP-X1 (finish rating 24 min), Type IP-X2 (finish rating 24 min), Type SHX (finish rating 24 min), Type FRX-G (finish rating 24 min), Type IP-AR (finish rating 24 min), Type IPC-AR (finish rating 24 min)

USG BORAL DRYWALL SFZ LLC — Types C, SCX, SGX (finish rating 24 min).

USG MEXICO S A DE C V — Type AR (finish rating 24 min), Type C (finish rating 24 min), Type WRX (finish rating 24 min), Type WRC (finish rating 24 min), Type IP-X1 (finish rating 24 min), Type IP-X2 (finish rating 24 min), Type SHX (finish rating 24 min), Type SCX, Type IP-AR (finish rating 24 min), Type IPC-AR (finish rating 24 min)

3B. **Gypsum Board*** — (As an alternate to Item 3) — Nom 3/4 in. thick, installed with 1-7/8 in. long cement coated nails as described in Item 3 or 1-3/8 in. long Type W coarse thread gypsum panel steel screws as described in Item 3A.

CGC INC — Types AR, IP-AR

UNITED STATES GYPSUM CO — Types AR, IP-AR

USG MEXICO S A DE C V — Types AR, IP-AR

3C. **Gypsum Board*** — (As an alternate to Items 3, 3A and 3B) — 5/8 in. thick, 2 ft wide, tongue and groove edge, applied horizontally to one side of the assembly. Installed with 1-7/8 in. long cement coated nails as described in Item 3 or 1-1/4 in. long Type W coarse thread gypsum panel steel screws as described in Item 3A. Joint covering (Item 2) not required.

CGC INC — Type SHX

UNITED STATES GYPSUM CO — Type SHX

USG MEXICO S A DE C V — Type SHX

3D. **Gypsum Board*** — (As an alternate to Items 3, 3A, 3B, or 3C — Not Shown) — For Direct Application to Studs Only- Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-5/8 in. long Type W coarse thread gypsum panel steel screws spaced 8 in. OC at perimeter and in the field. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 1-1/2 in. wide, max 10 ft long with a max thickness of 0.125 in. placed on the face of studs and attached to the stud with two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs or tabs may be used in lieu of or in addition to the lead batten strips or optional at other locations. Max 3/4 in. diam by max 0.125 in. thick lead discs compression fitted or adhered over steel screw heads or max 1/2 in. by 1-1/4 in. by max 0.125 in. thick lead tabs placed on gypsum boards underneath screw locations prior to the installation of the screws. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C".

RAY-BAR ENGINEERING CORP — Type RB-LBG (finish rating 24 min)

3E. **Gypsum Board*** — (As an alternate to Items 3, 3A, 3B, 3C, and 3D) — 5/8 in. thick gypsum panels, with square edges, applied either horizontally or vertically. Gypsum panels fastened to framing with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a max 8 in. OC, with last 2 screws 1 and 4 in. from edge of board or nailed 7 in. OC with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 15/64 in. diam heads. When used in widths of other than 48 in., gypsum boards are to be installed horizontally.

GEORGIA-PACIFIC GYPSUM L L C — Type DGG (finish rating 20 min), GreenGlass Type X (finish rating 23 min)

3F. **Gypsum Board*** — (As an alternate to Items 3, 3A, 3B, 3C, 3D, and 3E) — 5/8 in. glass-mat faced with square edges, applied either horizontally or vertically. Gypsum panels nailed 7 in. OC around the perimeter and in the field with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 15/64 in. diam heads. Nails shall be placed 1 inch and 3 inch from horizontal joints and 7 inch OC thereafter.

CGC INC — Type USGX (finish rating 22 min)

UNITED STATES GYPSUM CO — Type USGX (finish rating 22 min.)

USG BORAL DRYWALL SFZ LLC — , Type USGX (finish rating 22 min.)

USG MEXICO S A DE C V — Type USGX (finish rating 22 min.)

3G. **Gypsum Board*** — (As an alternate to Items 3 through 3F) — 5/8 in. thick paper surfaced applied vertically. Gypsum panels nailed 7 in. OC with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 15/64 in. diam heads.

GEORGIA-PACIFIC GYPSUM L L C — Type X ComfortGuard Sound Deadening Gypsum Board (finish rating 27 min)

3H. **Gypsum Board*** — (As an alternate to Items 3) — Not to be used with items 6 or 7. 5/8 in. thick paper surfaced applied vertically only. Gypsum panels nailed 7 in. OC with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 15/64 in. diam heads.

NATIONAL GYPSUM CO — Type SBWB

3I. **Gypsum Board*** — (As an alternate to Items 3 through 3H, Not Shown) — Nominal 5/8 in. thick, 4 ft wide panels, applied vertically. Panels nailed 7 in. OC with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 15/64 in. diam heads. Panel joints covered with paper tape and two layers of joint compound. Nailheads covered with two layers of joint compound.

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock ES (finish rating 20 min)

3J. **Gypsum Board*** — (As an alternate to Item 3) — Not to be used with items 6 or 7. 5/8 in. thick paper surfaced applied vertically or horizontally. Gypsum panels secured per item 3 or 3A.

CERTAINTEED GYPSUM INC — Type SilentFX

3K. **Gypsum Board*** — (As an alternate to Item 3) — 5/8 in. thick gypsum panels, with beveled, square, or tapered edges, applied either horizontally or vertically. Gypsum panels fastened to framing with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a maximum 8 in. OC with the last screw 1 in. from the edge of the board. When used in widths other than 48 in., gypsum panels are to be installed horizontally.

NATIONAL GYPSUM CO — Type FSK (finish rating 20 min), Type FSK-G (finish rating 20 min), Type FSW (finish rating 20 min), Type FSW-2 (finish rating 24 min), Type FSW-3 (finish rating 20 min), Type FSW-5 (finish rating 22 min), Type FSW-G (finish rating 20 min), Type FSK-C (finish rating 20 min), Type FSW-C (finish rating 20 min), Type FSMR-C, Type FSW-6 (finish rating 20 min), Type FSL (finish rating 24 min).

3L. **Gypsum Board*** — (As an alternate to Item 3) — For Direct Application to Studs Only — Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-5/8 in. long Type W coarse thread gypsum panel steel screws spaced 8 in. OC at perimeter and in the field. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 10 ft long with a max thickness of 0.140 in. placed on the face of studs and attached to the stud with two 1 in. long Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs, max 5/16 in. diam by max 0.140 in. thick. compression fitted or adhered over the screw heads. Lead batten strips to have a purity of 99.5% meeting the Federal specification QQ-L-201f, Grades "B, C or D".

MAYCO INDUSTRIES INC — "X-Ray Shielded Gypsum"

3M. **Gypsum Board*** — (As an alternate to Items 3) — For Direct Application to Studs Only — For use as the base layer or as the face layer. Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-5/8 in. long Type W coarse thread gypsum panel steel screws spaced 8 in. OC at perimeter and in the field when applied as the base layer. When applied as the face layer screw length to be increased to 2-1/2 in. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 8 ft long with a max thickness of 0.14 in. placed on the face of studs and attached to the stud with construction adhesive and two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs, nominal 3/8 in. diam by max 0.085 in. thick. Compression fitted or adhered over the screw heads. Lead batten strips and discs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Fasteners for face layer gypsum panels (Items 4, 4A or 4B) when installed over lead backed board to be min 2-1/2 in. Type S-12 bugle head steel screws spaced as described in Item 4.

RADIATION PROTECTION PRODUCTS INC — Type RPP - Lead Lined Drywall

3N. **Gypsum Board*** — (As an alternate to Item 3) — 5/8 in. thick, 4 ft. wide, applied horizontally or vertically with vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Secured as described in Item 3 or 3A.

CERTAINTEED GYPSUM INC — Easi-Lite Type X (finish rating 24 min), Easi-Lite Type X-2 (finish rating 24 min)

3O. **Wall and Partition Facings and Accessories*** — (As an alternate to Item 3, Not Shown) — Nominal 5/8 in. thick, 4 ft wide panels, applied vertically. Panels nailed 7 in. OC with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 15/64 in. diam heads. Panel joints covered with paper tape and two layers of joint compound. Nailheads covered with two layers of joint compound.

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock 527 (finish rating 24 min).

3P. **Gypsum Board*** — (As an alternate to Item 3, Not Shown) — Two layers nom. 5/16 in. thick gypsum panels applied vertically or horizontally. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered or backed by wood studs. Horizontal joints on the same side between face and base layers need not be staggered. Base layer gypsum panels fastened to studs with 1-1/4 in. long drywall nails spaced 8 in. OC. Face layer gypsum panels fastened to studs with 1-7/8 in. long drywall nails spaced 8 in. OC starting with a 4" stagger.

NATIONAL GYPSUM CO — Type FSW (finish rating 25 min)

3Q. **Gypsum Board*** — (As an alternate to Item 3) — 5/8 in. thick gypsum panels, with beveled, square, or tapered edges, applied either horizontally or vertically. Gypsum panels fastened to framing with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a maximum 10 in. OC with the last two screws 4 and 1 in. from the edges of the board. When used in widths other than 48 in., gypsum panels are to be installed horizontally.

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Certification: 09.13.2024 BID SET

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Key Plan:

THE LANDING 3.0

NEW CONSTRUCTION
555 S. HARRISON ST.
Fort Wayne, Indiana 46802

REVISION

No.	Date	Revision

DRAWING CONTENTS:
UL ASSEMBLIES (U305)

ISSUE DATE: 09.13.2024
PROJECT NO. 23029

DRAWING NO.
G-121k

Plot Time/Date: 9/17/2024 2:48:23 PM
Drawing Name: Template.rte

U305 SPECIFICATIONS

CONTINENTAL BUILDING PRODUCTS OPERATING CO, L L C — Type LGFC6A (finish rating 21 min), Type LGFC2A, Type LGFC-C/A, Type LGFC-WD, Type LGLLX

3R. **Gypsum Board*** — (As an alternate to Item 3. For use with Item 5H) — Any 5/8 in. thick, 4 ft. wide, Gypsum Board listed in Item 3 above. Applied either horizontally or vertically, and screwed to panels with 1-5/8 in. long Type W coarse thread steel screws at 8 in. OC at perimeter and in the field with the last two screws 4 and 3/4 in. from the edges of the board when applied as the base layer. When used in widths other than 48 in., gypsum panels are to be installed horizontally.

3S. **Gypsum Board*** — 3/4 in. thick paper or vinyl surfaced, with beveled, square, or tapered edges, applied either horizontally or vertically. Gypsum panels secured as described in Item 3 with nail length increased to 2 in.

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type PG-13

3T. **Wall and Partition Facings and Accessories*** — (As an alternate to 5/8 in. thick board as outlined in Item 3) — Nominal 1-3/8 in. thick, 4 ft wide panels, applied vertically or horizontally. Fastened with #6 x 2 in. long drywall screws spaced 8 in. OC along the perimeter and 12 in. OC in the field.

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock 545

3U. **Gypsum Board*** — (As an alternate to Item 3 - For use with Foamed Plastic products, Item 5J) — 5/8 in. thick, 4 ft. wide, applied vertically with vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Gypsum panels nailed 7 in. OC with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 15/64 in. diam heads.

AMERICAN GYPSUM CO — Types AGX-1

BEIJING NEW BUILDING MATERIALS PUBLIC LTD CO — Type DBX-1

CABOT MANUFACTURING ULC — Type X

CERTAINTEED GYPSUM INC — Type X

CGC INC — Type SCX

PANEL REY S A — Type PRX

SIAM GYPSUM INDUSTRY (SARABURI) CO LTD — Type EX-1

THAI GYPSUM PRODUCTS PCL — Type X

UNITED STATES GYPSUM CO — Types SCX and SGX

USG BORAL DRYWALL SFZ LLC — Types SCX and SGX

USG MEXICO S A DE C V — Type SCX

3V. **Gypsum Board*** — (As an alternate to Item 3. For use with Item 5K) — Any 5/8 in. thick, 4 ft. wide, Gypsum Board listed in Item 3 above. Applied vertically with vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Gypsum panels secured to studs with 1-5/8 in. long Type W coarse thread gypsum panel steel screws spaced 8 in. OC at perimeter and in the field.

4. **Steel Corner Fasteners** — (Optional) — For use at wall corners. Channel shaped, 2 in. long by 1 in. high on the back side with two 1/8 in. wide cleats protruding into the 5/8 in. wide channel, fabricated from 24 gauge galv steel. Fasteners applied only to the end or cut edge (not along tapered edges) of the gypsum board, no greater than 2 in. from corner of gypsum board, max spacing 16 in. OC. Nailed to adjacent stud through tab using one No. 6d cement coated nail per fastener. Corners of wall board shall be nailed to top and bottom plate using No. 6d cement coated nails.

5. **Batts and Blankets*** — (Optional — Required when Item 6A is used (RC- 1)) — Glass fiber or mineral wool insulation. Placed to completely or partially fill the stud cavities. When Item 6A is used, glass fiber or mineral wool insulation shall be friction-fitted to completely fill the stud cavities.

CERTAINTEED CORP

JOHNS MANVILLE

KNAUF INSULATION LLC

MANSON INSULATION INC

ROCKWOOL — Types Acoustical Fire Batts and Type AFB, min. density 1.69 pcf / 27.0 kg/m³

ROCKWOOL MALAYSIA SDN BHD — Type Acoustical Fire Batts

ROCK WOOL MANUFACTURING CO — Delta Board

THERMAFIBER INC — Type SAFB, SAFB FF

5A. **Fiber, Sprayed*** — (Not Shown — Not for use with Item 6) — As an alternate to Batts and Blankets (Item 5) — Spray applied cellulose material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product with a nominal dry density of 2.7 lb/ft³. Alternate Application Method: The fiber is applied without water or adhesive at a nominal dry density of 3.5 lb/ft³, in accordance with the application instructions supplied with the product. When Item 6B is used, Fiber, Sprayed shall be INS735, INS745, INS750LD, INS765LD or INS773LD.

U S GREENFIBER L L C — INS735, INS745 and INS750LD for use with wet or dry application. INS515LD, INS541LD, INS735, INS765LD, and INS773LD are to be used for dry application only

5B. **Fiber, Sprayed*** — (Not Shown - Not for use with Item 6) — As an alternate to Batts and Blankets (Item 5) - Spray applied cellulose insulation material. The fiber is applied with water to interior surfaces in accordance with the application instructions supplied with the product. Applied to completely fill the enclosed cavity. Minimum dry density of 4.3 pounds per cubic ft.

NU-WOOL CO INC — Cellulose Insulation

5C. **Batts and Blankets*** — Required for use with resilient channels, Item 7, 3 in. thick mineral wool batts, friction-fitted to fill interior of wall.

THERMAFIBER INC — Type SAFB, SAFB FF

5D. **Glass Fiber Insulation** — (As an alternate to Item 5C) — 3 in. thick glass fiber batts bearing the UL Classification Marking as to Surface Burning and/or Fire Resistance, friction-fitted to fill the interior of the wall. See **Batts and Blankets** (BKNV or BZJZ) Categories for names of Classified companies.

5E. **Batts and Blankets*** — (Required for use with Wall and Partition Facings and Accessories, Item 3D) — Glass fiber insulation, nom 3-1/2 in. thick, min. density of 0.80 pcf, with a flame spread of 25 or less and a smoke developed of 50 or less, friction-fitted to completely fill the stud cavities. See Batts and Blankets Category (BKNV) for names of manufacturers.

5F. **Fiber, Sprayed*** — (Optional, Not Shown — Not for use with Items 6, 6A, 6B, 6C, or 6D) — As an alternate to Batts and Blankets (Item 5) and Item 5A - Spray applied granulated mineral fiber material. The fiber is applied with adhesive, at a minimum density of 4.0 pcf, to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. See **Fiber, Sprayed** (CCAZ).

AMERICAN ROCKWOOL MANUFACTURING, LLC — Type Rockwool Premium Plus

5G. **Fiber, Sprayed*** — (Optional, Not Shown — Not for use with Items 6, 6A, 6B, 6C, or 6D). — As an alternate to Batts and Blankets (Item 5) and Item 5A - Brown Colored Spray applied cellulose fiber. The fiber is applied with water to completely fill the enclosed stud cavity in accordance with the application instructions supplied with the product. The minimum dry density shall be 4.30 lbs/ft³.

INTERNATIONAL CELLULOSE CORP — Celbar-RL

5H. **Foamed Plastic*** — (Optional -For use with Item 3R) — Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity.

SES FOAM INC — Nexseal™ 2.0 or Nexseal™ 2.0 LE Spray Foam and Sucraseal Spray Foam.

5I. **Fiber, Sprayed*** — (Not Shown — Not for use with Item 6) — As an alternate to Batts and Blankets (Item 5) - Spray-applied cellulose material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. To facilitate the installation of the material, any thin, woven or non-woven netting may be attached by any means possible to the outer face the studs. The material shall reach equilibrium moisture content before the installation of materials on either face of the studs. The minimum dry density shall be 5.79 lbs/ft³.

APPLEGATE HOLDINGS L L C — Applegate Advanced Stabilized Cellulose Insulation

5J. **Foamed Plastic*** — (Optional, Not Shown - For use with Item 3U) — Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity.

GACO WESTERN L L C — Types GacoEZSpray F4500, GacoProFill FR6500R, Gaco 052N, GacoOnePass F1850, GacoOnePass Low GWP F1880, and Gaco WallFoam 183M

5K. **Foamed Plastic*** — (Optional, Not Shown - For use with Item 3V) — Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity.

CARLISLE SPRAY FOAM INSULATION — SealTite Pro Closed Cell (CC), SealTite Pro Open Cell (OC), SealTite Pro OCX, SealTite Pro No Trim, and SealTite Pro One Zero.

6. **Steel Framing Members*** — (Optional, Not Shown) — Furring channels and Steel Framing Members as described below:

a. **Furring Channels** — Formed of No. 25 MSG galv steel. 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping #6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Gypsum board attached to furring channels as described in Item 3.

b. **Steel Framing Members*** — Used to attach furring channels (Item 6a) to studs. Clips spaced 48 in. OC. RSIC-1 and RSIC-1 (2.75) clips secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center grommet. RSIC-V and RSIC-V (2.75) clips secured to studs with No. 8 x 1-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips. RSIC-1 and RSIC-V clips for use with 2-9/16 in. wide furring channels. RSIC-1 (2.75) and RSIC-V (2.75) clips for use with 2-23/32 in. wide furring channels.

PAC INTERNATIONAL L L C — Types RSIC-1, RSIC-V, RSIC-1 (2.75), RSIC-V (2.75)

6A. **Steel Framing Members*** — (Optional, Not Shown) — Furring channels and Steel Framing Members on one side of studs as described below:

a. **Furring Channels** — Formed of No. 25 MSG galv steel, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. Batts and Blankets placed in stud cavity as described in Item 5. Two layers of gypsum board attached to furring channels as described in Item 3.

b. **Steel Framing Members*** — Used to attach furring channels (Item 6Aa) to one side of studs only. Clips spaced 48 in. OC., and secured to studs with two No. 8 x 2-1/2 in. coarse drywall screws, one through the hole at each end of the clip. Furring channels are friction fitted into clips.

KINETICS NOISE CONTROL INC — Type Isomax

6B. **Steel Framing Members*** — (Optional, Not Shown) — Furring channels and Steel Framing Members as described below:

a. **Furring Channels** — Formed of No. 25 MSG galv steel. 2-3/8 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping #6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Gypsum board attached to furring channels as described in Item 3.

b. **Steel Framing Members*** — Used to attach furring channels (Item 6Ba) to studs. Clips spaced 48 in. OC. Genie clips secured to studs with No. 8 x 1-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips.

PLITEQ INC — Type Genie Clip

6C. **Steel Framing Members*** — (Optional, Not Shown) — Furring channels and Steel Framing Members as described below:

a. **Furring Channels** — Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire. Gypsum board attached to furring channels as described in Item 3.

b. **Steel Framing Members*** — Used to attach furring channels (Item 6Ca) to studs. Clips spaced 48 in. OC., and secured to studs with No. 2 in. coarse drywall screw with 1 in. diam washer through the center hole. Furring channels are friction fitted into clips.

STUDCO BUILDING SYSTEMS — RESILMOUNT Sound Isolation Clips - Type A237 or A237R

6D. **Steel Framing Members*** — (Optional, Not Shown) — Furring channels and Steel Framing Members as described below:

a. **Furring Channels** — Formed of No. 25 MSG galv steel, spaced 24 in. OC, and perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and secured in place with a double strand of No. 18 AWG twisted steel wire. Gypsum board attached to furring channels as described in Item 3.

b. **Steel Framing Members*** — Used to attach furring channels (Item 6Da) to studs. Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips.

REGUPOL AMERICA — Type SonusClip

6E. **Steel Framing Members*** — (Optional, Not Shown) — Resilient channels and Steel Framing Members as described below:

a. **Resilient Channels** — Formed of No. 25 MSG galv steel, spaced 24 in. OC, and perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and secured in place with two No. 8 15 x 1/2 in. Philips Modified Truss screws spaced 2-1/2 in. from the center of the overlap. Gypsum board attached to resilient channels as described in Item 3.

b. **Steel Framing Members*** — Used to attach resilient channels (Item 6Ea) to studs. Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Resilient channels are secured to clips with one No. 10 x 1/2 in. pan-head self-drilling screw.

KEENE BUILDING PRODUCTS CO INC - Type RC+ Assurance Clip

6F. **Steel Framing Members*** — (Optional, Not Shown) — Furring channels and Steel Framing Members as described below:

a. **Furring Channels** — Formed of No. 25 MSG galv steel. 2-23/32 in. wide by 7/8 in. or 1-1/2 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping #6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Gypsum board attached to furring channels as described in Item 3.

b. **Steel Framing Members*** — Used to attach furring channels (Item 6Fa) to studs. Clips spaced 48 in. OC. Clips secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center grommet. Furring channels are friction fitted into clips.

CLARKDIETRICH BUILDING SYSTEMS — Type ClarkDietrich Sound Clip

6G. **Steel Framing Members*** — (Optional, Not Shown) — Used as an alternate method to attach resilient channels to wall studs. A resilient sound isolation accessory shall be used at each attachment point of the resilient channels and spaced max 16 in. O.C. Channel ends butted and centered under the structural members and attached with one accessory at each end. Additional accessories used to hold resilient channels that support the gypsum board end joints. The accessory envelops the mounting edge of the resilient channel. The accessory and resilient channel are fastened to the structural members with the screws supplied with the accessory and per the accessory manufacturer's installation instructions.

PAC INTERNATIONAL L L C — Type RC-1 Boost

7. **Furring Channel** — Optional — Not Shown — For use on one side of the wall - Resilient channels, 25 MSG galv steel, spaced vertically 24 in. OC, flange portion screw attached to one side of studs with 1-1/4 in. long diamond shaped point, double lead Phillips head steel screws. When resilient channels are used, insulation, Items 5C or 5D is required.

8. **Caulking and Sealants** — (Not Shown, Optional) — A bead of acoustical sealant applied around the partition perimeter for sound control.

9. **STC Rating** — The STC Rating of the wall assembly is 56 when it is constructed as described by Items 1 through 6, except:

A. Item 2, above — Nailheads Shall be covered with joint compound.

B. Item 2, above — Joints As described, shall be covered with fiber tape and joint compound.

C. Item 5, above — Batts and Blankets* The cavities formed by the studs shall be friction fit with R-19 unfaced fiberglass insulation batts measuring 6-1/4 in. thick and 15-1/4 in. wide.

D. Item 6, above — Steel Framing Members* Type RSIC-1 clips shall be used to attach gypsum board to studs on either side of the wall assembly.

E. Item 8, above — Caulking and Sealants (Not Shown) A bead of acoustical sealant shall be applied around the partition perimeter for sound control.

F. Steel Corner Fasteners (Item 4), Fiber, Sprayed (Items 5A and 5B) and Steel Framing Members (Item 6A), not evaluated as alternatives for obtaining STC rating.

10. **Wall and Partition Facings and Accessories*** — (Optional, Not Shown) — Nominal 1/2 in. thick, 4 ft wide panels, for optional use as an additional layer on one or both sides of the assembly. Panels attached in accordance with manufacturer's recommendations. When the QR-500 or QR-510 panel is installed between the wood framing and the UL Classified gypsum board, the required UL Classified gypsum board layer(s) is/are to be installed as indicated as to fastener type and spacing, except that the required fastener length shall be increased by a minimum of 1/2 in. Not evaluated or intended as a substitute for the required layer(s) of UL Classified Gypsum Board.

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock QR-500 and QR-510

11. **Cementitious Backer Units*** — (Optional Item Not Shown — For Use On Face Of 1 Hr Systems With All Standard Items Required) - 7/16 in., 1/2 in., 5/8 in., 3/4 in. or 1 in. thick, min. 32 in. wide. Applied vertically or horizontally with vertical joints centered over studs. Fastened to studs and runners with cement board screws of adequate length to penetrate stud by a minimum of 3/8 in. for steel framing members, and a minimum of 3/4 in. for wood framing members spaced a max of 8 in. OC. When 4 ft. wide boards are used, horizontal joints need not be backed by framing.

NATIONAL GYPSUM CO — Type DuraBacker, PermaBase, DuraBacker Plus, or PermaBase Plus

12. **Non-Bearing Wall Partition Intersection** — (Optional) —Two nominal 2 by 4 in. studs or nominal 2 by 6 in. studs nailed together with two 3 in. long 10d nails spaced a max. 16 in. OC. vertically and fastened to one side of the minimum 2 by 4 in. stud with 3 in. long 10d nails spaced a max. 16 in. OC. vertically. Intersection between partition wood studs to be flush with the 2 by 4 in. studs. The wall partition wood studs are to be framed by with a second 2 by 4 in. wood stud fastened with 3 in. long 10d nails spaced a max. 16 in. OC. vertically. Maximum one non-bearing wall partition intersection per stud cavity. Non-bearing wall partition stud depth shall be at a minimum equal to the depth of the bearing wall.

13. **Mesh Netting** — (Not Shown) — Any thin, woven or non-woven fibrous netting material attached with staples to the outer face of one row of studs to facilitate the installation of the sprayed fiber from the opposite row.

14. **Mineral and Fiber Board*** — (Optional, Not Shown) — For optional use as an additional layer on one side of wall. Nom 1/2 in. thick, 4 ft wide with long dimension parallel and centered over studs. Attached to framing with 2 in. long Type W steel screws, spaced 12 in. OC. The required UL Classified gypsum board layer(s) is/are to be installed as

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Certification: 09.13.2024 BID SET

Consultant Logo:

Key Plan:

THE LANDING 3.0

NEW CONSTRUCTION
555 S. HARRISON ST.
Fort Wayne, Indiana 46802

REVISION		
No.	Date	Revision

DRAWING CONTENTS:
UL ASSEMBLIES (U305)

ISSUE DATE:	PROJECT NO.
09.13.2024	23029

DRAWING NO.
G-121I

Plot Time (Date: 9/13/2024 - 2:48:24 PM
Drawing Name: Template.rvt

U305 SPECIFICATIONS

indicated as to fastener type and spacing, except that the required fastener length shall be increased by a minimum of 1/2 in. Not evaluated or intended as a substitute for the required layer(s) of UL Classified Gypsum Board.

HOMASOTE CO — Homasote Type 440-32

14A. **Mineral and Fiber Board*** — (Optional, Not Shown) — For use with Items 14B-14E) — For optional use as an additional layer on one side of wall. Nom 1/2 in. thick, 4 ft wide with long dimension parallel and centered over studs. Attached to framing with minimum 1-3/8 in. long ring shanked nails or 1-1/4 in. long Type W steel screws, spaced 12 in. OC along board edges and 24 in. OC in field of board along intermediate framing. Not evaluated or intended as a substitute for the required layer(s) of UL Classified Gypsum Board.

HOMASOTE CO — Homasote Type 440-32

14B. **Glass Fiber Insulation** — (For use with Item 14A) — 3-1/2 in. thick glass fiber batts bearing the UL Classification Marking as to Surface Burning and/or Fire Resistance, placed to fill the interior of the wall. See Batts and Blankets (BKNV or BZJZ) categories for names of Classified companies.

14C. **Batts and Blankets*** — (As an alternate to Item 14B, For use with Item 14A), 3 in. thick mineral wool batts, placed to fill interior of wall, attached to the 3-1/2 in. face of the studs with staples placed 24 in. OC.

THERMAFIBER INC — Type SAFB, SAFB FF

14D. **Adhesive** — (For use with Item 14A) — Construction grade adhesive applied in vertical, serpentine, nominal 3/8 in. wide beads down the length of both vertical edges of Mineral and Fiber Board (Item 14A).

14E. **Gypsum Board*** — (For use with Item 14A) — 5/8 in. thick, 4 ft wide, applied vertically over Mineral and Fiber Board (Item 14A) with vertical joints located anywhere over stud cavities. Secured to mineral and fiber boards with 1-1/2 in. Type G Screws spaced 8 in. OC along edges of each vertical joint and 12 in. OC in intermediate field of the Mineral and Fiber Board (Item 14A). Secured to outermost studs and bearing plates with 2 in. long Type S screws spaced 8 in. OC. Gypsum Board joints covered with paper tape and joint compound. Screw heads covered with joint compound. Finish Rating 30 Min.

AMERICAN GYPSUM CO — Type AG-C

CERTAINTEED GYPSUM INC — Type C

CGC INC — Types C, IP-X2, IPC-AR

CONTINENTAL BUILDING PRODUCTS OPERATING CO, L L C — Type LGFC-C/A

GEORGIA-PACIFIC GYPSUM L L C — Types 5, DAPC, TG-C

NATIONAL GYPSUM CO — Types FSK-C, FSW-C

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type PG-C

PANEL REY S A — Type PRC

THAI GYPSUM PRODUCTS PCL — Type C

UNITED STATES GYPSUM CO — Types C, IP-X2, IPC-AR

USG BORAL DRYWALL SFZ LLC — Type C

USG MEXICO S A DE C V — Types C, IP-X2, IPC-AR

14F. **Mineral and Fiber Board** — (Optional, Not Shown) — For optional use as an additional layer on one side of wall – Nom 1/2 in. thick, 4 ft wide, square edge fiber boards applied vertically to studs on one side of the wall in between the wood studs and the UL Classified Gypsum Board (Item 3). Fiber boards installed with 1-1/4 in. long, Type W, bugle head, coarse thread gypsum board screws spaced 12 in. OC max, with the last screws spaced 2 in. and 6 in. from edge of board. Gypsum board (Item 3) installed as indicated as to fastener type and spacing, except that the required fastener length shall be increased by a minimum of 1/2 in. Not evaluated or intended as a substitute for the required layer(s) of UL Classified Gypsum Board.

BLUE RIDGE FIBERBOARD INC — SoundStop

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

Last Updated on 2020-10-06

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Certification: 09.13.2024 BID SET

Consultant Logo:

Key Plan:

THE LANDING 3.0

NEW CONSTRUCTION
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REVISION

No.	Date	Revision

DRAWING CONTENTS:
UL ASSEMBLIES (U305)

ISSUE DATE: 09.13.2024
PROJECT NO. 23029

DRAWING NO.
G-121m

Plot Time/Date: 9/13/2024 2:48:25 PM
Drawing Name: temp.dwg

U301 SPECIFICATIONS

UL Product iQ®

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States

BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

See General Information for Fire-resistance Ratings - ANSI/UL 263 Certified for United States
Design Criteria and Allowable Variances

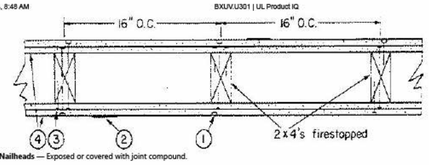
See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada
Design Criteria and Allowable Variances

Design No. **U301**

June 14, 2024

Bearing Wall Rating — 2 Hr.
Finish Rating — 66 Min.
This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used — See Guide BXUV or BXUV7.

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**



1. **Nailheads** — Exposed or covered with joint compound.

2. **Joints** — Exposed joints covered with joint compound and paper tape. Joint compound and paper tape may be omitted when square edge boards are used. As an alternate, nom 3/32 in. thick gypsum veneer plaster may be applied to the entire surface of Classified veneer baseboard with the joints reinforced with paper tape.

3. **Nails** — 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam, 1/4 in. diam heads, and 8d cement coated nails 2-3/8 in. long, 0.113 in. shank diam, 9/32 in. diam heads.

4. **Gypsum Board*** — 5/8 in. thick, two layers applied either horizontally or vertically. Inner layer attached to studs with the 1-7/8 in. nails spaced 6 in. OC. Outer layer attached to studs over inner layer with the 2-3/8 in. long nails spaced 8 in. OC. Vertical joints located over studs. All joints in face layers staggered with joints in base layers. Joints of each base layer offset with joints of base layer on opposite side.
When used in widths other than 48 in., gypsum board to be installed horizontally.

When **Steel Framing Members*** (Item 6 or any alternate clips) are used, base layer attached to furring channels with 1 in. long Type S bugle-head steel screws spaced max 24 in. OC; face layer attached with 1-5/8 in. long Type S bugle-head steel screws spaced max 12 in. OC.

AMERICAN GYPSUM CO — Types AGX-1, M-Glass, AG-C, AGX-11, LightRoc

BEIJING NEW BUILDING MATERIALS PUBLIC LTD CO — Type DBX-1

CABOT MANUFACTURING ULC — Type X, 5/8 Type X, Moisture Resistant Type X, Gypsum Sheathing Type X, Mold & Mildew Resistant Type X and Mold & Mildew Resistant AR Type X, Type Blueglass Exterior Sheathing

CERTAINTEED GYPSUM INC — Types EGRG, GlasRoc, GlasRoc-2, Type C, Type X-1, Type LWTX

CGC INC — Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULIX, ULX, USGX, WRC, WRX

CERTAINTEED GYPSUM INC — Types LGFC2A, LGFC6A, LGFC-C/A, LGFC-WD, LGLLX, CLLX

GEORGIA-PACIFIC GYPSUM L L C — Types 5, 6, 9, C, DAP, DD, DA, DAPC, DGG, DS, GPF56. LS, TG-C, Type X, Veneer Plaster Base-Type X, Water Rated-Type X, Sheathing Type-X, Soffit-Type X, GreenGlass Type X, Type LWX, Veneer Plaster Base-Type LWX, Water Rated-Type LWX, Sheathing Type-LWX, Soffit-Type LWX, Type DGLW, Water Rated-Type DGLW, Sheathing Type- DGLW, Soffit-Type DGLW, Type LWZX, Veneer Plaster Base - Type LW2X, Water Rated - Type LWZX, Sheathing - Type LWZX, Soffit - Type LW2X, Type DGL2W, Water Rated - Type DGL2W, Sheathing - Type DGL2W

NATIONAL GYPSUM CO — Types eXP-C, FSK, FSK-C, FSK-G, FSW, FSW-3, FSW-5, FSW-6, FSW-8, FSW-C, FSW-G, FSMR-C, FSL, RSX

NATIONAL GYPSUM CO — Riyadh, Saudi Arabia — Type FR, or WR.

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Types C, PG-2, PG-3, PG-3W, PG-4, PG-5, PG-5W, PG-5WS, PG-9, PG-11, PG-C, PGS-WRS, PGI

PANEL REY S A — Types PRC, PRC2, PRX, RHX, MDX, ETX, GREX, GRIX

SIAM GYPSUM INDUSTRY (SARABURI) CO LTD — Type EX-1

THAI GYPSUM PRODUCTS PCL — Type C or Type X

UNITED STATES GYPSUM CO — Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULIX, ULX, USGX, WRC, WRX

USG BORAL DRYWALL SFZ LLC — Types C, SCX, USGX

USG MEXICO S A DE C V — Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULIX, ULX, USGX, WRC, WRX

4A. **Gypsum Board*** — (As an alternate to Item 4) — Nom 3/4 in. thick, installed as described in Item 4.
CGC INC — Types AR, IP-AR

UNITED STATES GYPSUM CO — Types AR, IP-AR

USG MEXICO S A DE C V — Types AR, IP-AR

4B. **Gypsum Board*** — (As an alternate to Items 4 and 4A) — 5/8 in. thick, 2 ft wide, tongue and groove edge, applied horizontally as the outer layer to one side of the assembly. Secured as described in Item 4. Joint covering (Item 2) not required.
CGC INC — Type SHX

UNITED STATES GYPSUM CO — Type SHX

USG MEXICO S A DE C V — Type SHX

4C. **Gypsum Board*** — (As an alternate to Items 4, 4A or 4B — Not Shown) — For Direct Application to Studs Only- For use on one or both sides of the wall as the base layer or one or both sides of the wall as the face layer. Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-5/8 in. long Type W coarse thread gypsum panel steel screws spaced 8 in. OC at perimeter and in the field when applied as the base layer. When applied as the face layer screw length to be increased to 2-1/2 in. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 1-1/2 in. wide, max 10 ft long with a max thickness of 0.125 in. placed on the face of studs and attached to the stud with two 1 in. long Type S-12 pan head steel screws, FAJ one at the top of the strip and one at the bottom of the strip. Lead discs or tabs may be used in lieu of or in addition to the lead batten strips or optional at other locations. Max 3/4 in. diam by max 0.125 in. thick lead discs compression fitted or adhered over steel screw heads or max 1/2 in. by 1-1/4 in. by max 0.125 in. thick lead tabs placed on gypsum boards underneath screw locations prior to the installation of the screws. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Fasteners for face layer gypsum panels (Items 4, 4A or 4B) when installed over lead backed board to be min 2-1/2 in. Type S-12 bugle head steel screws spaced as described in Item 4.
RAY-BAR ENGINEERING CORP — Type RB-LBG.

4D. **Gypsum Board*** — As an Alternate to Item 4 — 5/8 in. thick applied either horizontally or vertically. Inner layers fastened to framing with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a max 8 in. OC, with last screw 1 in. from edge of board. Outer layers fastened to framing with 1-7/8 in. long Type W coarse thread gypsum panel steel screws spaced a max 8 in. OC, with last screw 1 in. from edge of board. When used in widths other than 48 in., gypsum board to be installed horizontally. All joints in face layers staggered with joints in base layers. Joints of each base layer offset with joints of base layer on opposite side.
AMERICAN GYPSUM CO — Types AGX-1, M-Glass, AG-C, LightRoc

4E. **Gypsum Board*** — (As an alternate to Items 4 through 4D) — 5/8 in. thick, 4 ft. wide, paper surfaced applied vertically and secured as described in Item 4.
GEORGIA-PACIFIC GYPSUM L L C — Type X ComfortGuard Sound Deadening Gypsum Board

4F. **Gypsum Board*** — (As an alternate to Item 4) — Not to be used with item 6, 6A, 6B or 6C. 5/8 in. thick, 4 ft. wide, paper surfaced, applied vertically and secured as described in Item 4.
NATIONAL GYPSUM CO — Type SBWB

4G. **Gypsum Board *** — (As an alternate to Items 4 through 4F) — Nominal 5/8 in. thick, 4 ft wide panels, applied vertically and secured as described in Item 4.
PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Types QuietRock ES

4H. **Gypsum Board*** — (As an alternate to Item 4) — Not to be used with item 6, 6A, 6B, or 6C. 5/8 in. thick, 4 ft. wide, paper surfaced, applied vertically or horizontally and secured as described in Item 4.
CERTAINTEED GYPSUM INC — Type SilentFX

4I. **Gypsum Board*** — (As an alternate to item 4) — 5/8 in. thick, two layers applied either horizontally or vertically. Inner layer attached to studs with 1-1/4 in. long Type W steel screws spaced 8 in. OC. Outer layer attached to studs over inner layer with 2 in. long Type W steel screws spaced 8 in. OC offset 6 in. from base layer. Vertical joints located over studs. Vertical and horizontal joints between inner and outer layers staggered. Outer layer joints covered with joint tape and compound, screwheads covered with joint compound. As an alternate to the joint compound nom 3/32 in. thick gypsum veneer plaster may be applied to the entire surface of Classified veneer baseboard. Joints reinforced. Wallboard other than 48 in. wide must be applied horizontally. The SoundBreak XP Type X Gypsum Board is not to be used with Item 6, 6A, 6B, or 6C.
NATIONAL GYPSUM CO — Types eXP-C, FSK, FSK-C, FSK-G, FSW, FSW-3, FSW-5, FSW-6, FSW-C, FSW-G, FSMR-C, SBWB

4J. **Gypsum Board*** — (As an alternate to Items 4) — For Direct Application to Studs Only- For use as the base layer or as the face layer. Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-5/8 in. long Type W coarse thread gypsum panel steel screws spaced 8 in. OC at perimeter and in the field when applied as the base layer. When applied as the face layer screw length to be increased to 2-1/2 in. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 8 ft long with a max thickness of 0.14 in. placed on the face of studs and attached to the stud with construction adhesive and two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs, nominal 3/8 in. diam by max 0.085 in. thick. compression fitted or adhered over the screw heads. Lead batten strips and discs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Fasteners for face layer gypsum panels (Items 4, 4A or 4B) when installed over lead backed board to be min 2-1/2 in. Type S-12 bugle head steel screws spaced as described in Item 4.
RADIATION PROTECTION PRODUCTS INC — Type RPP - Lead Lined Drywall

4K. **Gypsum Board*** — For use with Item 7 — 5/8 in. thick, two layers applied vertically. Inner layer attached to resilient channels with 1 in. long steel screws spaced 8 in. OC. Outer layer attached to resilient channels over inner layer with 1-5/8 in. long steel screws spaced 8 in. OC. All joints in face layers staggered with joints in base layers. Joints of each base layer offset with joints of base layer on opposite side. Insulation, Items 8 or 9 is required.
AMERICAN GYPSUM CO — Types AGX-1, M-Glass, AG-C, AGX-11

NATIONAL GYPSUM CO — Types eXP-C, FSK, FSK-C, FSK-G, FSW, FSW-3, FSW-5, FSW-6, FSW-C, FSW-G, FSMR-C, SBWB.

CERTAINTEED GYPSUM INC — Types EGRG, GlasRoc, GlasRoc-2, Type C, Type X-1, Easi-Lite Type X, SilentFX

4L. **Gypsum Board*** — (As an alternate to Items 4) — For Direct Application to Studs Only- For use as the base layer or as the face layer. Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-5/8 in. long Type W coarse thread gypsum panel steel screws spaced 8 in. OC at perimeter and in the field when applied as the base layer. When applied as the face layer screw length to be increased to 2-1/2 in. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 8 ft long with a max thickness of 0.14 in. placed on the face of studs and attached to the stud with construction adhesive and two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs, nominal 3/8 in. diam by max 0.085 in. thick. compression fitted or adhered over the screw heads. Lead batten strips and discs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Fasteners for face layer gypsum panels (Items 4, 4A or 4B) when installed over lead backed board to be min 2-1/2 in. Type S-12 bugle head steel screws spaced as described in Item 4.
RADIATION PROTECTION PRODUCTS INC — Type RPP - Lead Lined Drywall

4M. **Gypsum Board*** — (As an alternate to Item 4) — 5/8 in. thick, 4 ft. wide, two layers applied vertically with vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Secured as described in Item 4.
CERTAINTEED GYPSUM INC — 5/8" Easi-Lite Type X

4N. **Gypsum Board*** — (As an alternate to 5/8 in. Type FSW in Items 4 or 4I) — Nom. 5/16 in. thick gypsum panels applied vertically or horizontally. Two layers of 5/16 in. for every single layer of 5/8 in. gypsum board described in Item 4 or 4I. Horizontal joints on the same side need not be staggered. Inner layer of each double 5/16 in. layer attached with fasteners, as described in item 4 or 4I, spaced 24 in. OC. Outer layer of each double 5/16 in. layer attached per Item 4 or 4I.
NATIONAL GYPSUM CO — Type FSW

4O. **Wall and Partition Facings and Accessories*** — (As an alternate to Items 4 through 4N) — Nominal 5/8 in. thick, 4 ft wide panels, applied vertically and secured as described in Item 4.
PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock 527

4P. **Gypsum Board*** — (As an alternate to Item 4) — 5/8 in. thick, two layers applied either horizontally or vertically. Inner layer attached to studs with 1-1/4 in. long Type W steel screws spaced 10 in. OC with the last two screws 4 and 1 in. from the edges of the board. Outer layer attached to studs over inner layer with 1-7/8 in. long Type W steel screws spaced 10 in. OC offset 5 in. from base layer with the last two screws 4 and 1 in. from the edges of the board. Vertical joints located over studs. Vertical and horizontal joints between inner and outer layers staggered. Outer layer joints covered with joint tape and compound, screwheads covered with joint compound. When used in widths other than 48 in., gypsum panels are to be installed horizontally.
CERTAINTEED GYPSUM INC — Type LGFC6A, Type LGFC2A, Type LGFC-C/A, Type LGFC-WD, Type LGLLX

4Q. **Gypsum Board*** — (As an alternate to Item 4. For use with Item 13) — Any 5/8 in. thick, 4 ft. wide, Gypsum Board UL Classified for Fire Resistance (CKNX) eligible for use in Design Nos. U305 and L501 or G512. Two layers, applied either horizontally or vertically, and screwed to studs with 1-5/8 in. long Type W coarse thread steel screws at 8 in. OC at perimeter and in the field with the last two

screws 4 and 3/4 in. from the edges of the board when applied as the base layer. For the face layer, screw length to be increased to 2-1/2 in. All joints in face layers staggered with joints in base layers. When used in widths other than 48 in., gypsum panels are to be installed horizontally.

4R. **Gypsum Board*** — As an Alternate to Item 4 — 5/8 in. thick applied either horizontally or vertically. Inner layers fastened to framing with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a max 8 in. OC, with last screw 1 in. from edge of board. Outer layers fastened to framing with 1-7/8 in. long Type W coarse thread gypsum panel steel screws spaced a max 8 in. OC, with last screw 1 in. from edge of board. When used in widths other than 48 in., gypsum board to be installed horizontally. All joints in face layers staggered with joints in base layers. Joints of each base layer offset with joints of base layer on opposite side.
CERTAINTEED GYPSUM INC — Types EGRG, GlasRoc, GlasRoc-2, Type C, Type X-1, Easi-Lite Type X, SilentFX

4S. **Gypsum Board*** — (As an alternate to Item 4. For use with Item 13A) — 5/8 in. thick, two layers applied vertically. Inner layer attached to studs with the 1-7/8 in. nails spaced 6 in. OC. Outer layer attached to studs over inner layer with the 2-3/8 in. long nails spaced 8 in. OC. Vertical joints located over studs. All joints in face layers staggered with joints in base layers. Joints of each base layer offset with joints of base layer on opposite side.
AMERICAN GYPSUM CO — Types AGX-1

BEIJING NEW BUILDING MATERIALS PUBLIC LTD CO — Type DBX-1

CABOT MANUFACTURING ULC — "5/8 Type X"

CGC INC — Type SCX

PANEL REY S A — Type PRX

SIAM GYPSUM INDUSTRY (SARABURI) CO LTD — Type EX-1

THAI GYPSUM PRODUCTS PCL — Type X

UNITED STATES GYPSUM CO — Type SCX

USG BORAL DRYWALL SFZ LLC — Types SCX

USG MEXICO S A DE C V — Type SCX

4T. **Gypsum Board*** — (As an alternate to Item 4. For use with Item 13B) — Any 5/8 in. thick, 4 ft. wide, Gypsum Board listed in Item 4 above. Two layers applied vertically with vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. All joints in outer layers staggered with joints in inner layers. Inner layer attached to studs with 1-5/8 in. long Type W coarse thread gypsum panel steel screws spaced 8 in. OC at perimeter and in the field. Outer layer attached to studs over inner layer with the 2-1/2 in. long Type W coarse thread gypsum panel steel screws spaced 8 in. OC.

4U. **Gypsum Board*** — (As an alternate to Item 4. For use with Item 13C) — Any 5/8 in. thick, 4 ft. wide, Gypsum Board listed in Item 4 above. Two layers applied vertically with vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. All joints in outer layers staggered with joints in inner layers. Inner layer attached to studs with 1-1/4 in. long Type W screws spaced 8 in. OC at perimeter and in the field. Outer layer attached to studs over inner layer with 1-7/8 in. long Type W screws spaced 8 in. OC.

5. **Molded Plastic*** — Not Shown, Optional — Solid vinyl siding mechanically secured over the outer layer to framing members in accordance with manufacturer's recommended installation details.
ALSIDE, DIV OF ASSOCIATED MATERIALS INC

GENTEK BUILDING PRODUCTS LTD

VYTEC CORP

6. **Steel Framing Members*** — (Optional, Not Shown) — Furring channels and Steel Framing Members as described below:
A. **Furring Channels** — Formed of No. 25 MSG galv steel. 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping #6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Wallboard attached to furring channels as described in Item 4.

B. **Steel Framing Members*** — Used to attach furring channels (Item 6a) to studs. Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center grommet. Furring channels are friction fitted into clips. RSIC-1 clip for use with 2-9/16 in. wide furring channels. RSIC-1 (2.75) clip for use with 2-23/32 in. wide furring channels.
PAC INTERNATIONAL L L C — Types RSIC-1, RSIC-1 (2.75)

6A. **Steel Framing Members*** — (Optional, Not Shown, As an alternate to Item 6) — Furring channels and Steel Framing Members as described below:
A. **Furring Channels** — Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire. Gypsum board attached to furring channels as described in Item 4.

B. **Steel Framing Members*** — Used to attach furring channels (Item 6Aa) to studs. Clips spaced 48 in. OC., and secured to studs with 2 in. coarse drywall screw with 1 in. diam washer through the center hole. Furring channels are friction fitted into clips.
STUDCO BUILDING SYSTEMS — RESILMOUNT Sound Isolation Clips - Type A237R

6B. **Steel Framing Members*** — (Optional, Not Shown, As an alternate to Item 6) — Furring channels and Steel Framing Members as described below:
A. **Furring Channels** — Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item 6Bb. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire. Gypsum board attached to furring channels as described in Item 4.

B. **Steel Framing Members*** — Used to attach furring channels (Item 6Ba) to studs. Clips spaced 48 in. OC., and secured to studs with 2-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips.
REGUPOL AMERICA — Type SonusClip

6C. **Steel Framing Members*** — (Optional, Not Shown, As an alternate to Item 6) —Resilient channels and Steel Framing Members as described below:
a. **Resilient Channels** — Formed of No. 25 MSG galv steel, spaced 24 in. OC. and perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and secured in place with two No. 8 15 x 1/2 in. Phillips Modified Truss screws spaced 2-1/2 in. from the center of the overlap. Gypsum board attached to resilient channels as described in Item 4.

b. **Steel Framing Members*** — Used to attach resilient channels (Item 6Ca) to studs. Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Resilient channels are secured to clips with one No. 10 x 1/2 in. pan-head self-drilling screw.
KEENE BUILDING PRODUCTS CO INC — Type RC+ Assurance Clip

6D. **Steel Framing Members*** — (Optional, Not Shown, As an alternate to Item 6) — Used as an alternate method to attach resilient channels to wall studs. A resilient sound isolation accessory shall be used at each attachment point of the resilient channels and

spaced max 24 in. O.C. Channel ends butted and centered under the structural members and attached with one accessory at each end. Additional accessories used to hold resilient channels that support the gypsum board end joints. The accessory envelops the mounting edge of the resilient channel. The accessory and resilient channel are fastened to the structural members with the screws supplied with the accessory and per the accessory manufacturer's installation instructions.
PAC INTERNATIONAL L L C — Type RC-1 Boost

6E **Steel Framing Members*** — (Optional, Not Shown, As an alternate to Item 6) — Furring channels and Steel Framing Members as described below:
a **Furring Channels** — Formed of No. 25 MSG galv steel. 2-23/32 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping #6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Gypsum board attached to furring channels as described in Item 4.

b **Steel Framing Members*** — Used to attach furring channels (Item 6Ea) to studs. Clips spaced maximum 48 in. OC. Clips secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center grommet. Furring channels are friction fitted into clips.

CLARKDIETRICH BUILDING SYSTEMS — Type ClarkDietrich Sound Clip

7. **Furring Channel** — Optional — Not Shown — For use on one side of the wall with Item 4K — Resilient channels, 25 MSG galv steel, spaced vertically 24 in. OC, flange portion screw attached to one side of studs with 1-1/4 in. long diamond shaped point, double lead Phillips head steel screws. When resilient channels are used, insulation, Item 8 or 9 is required.

8. **Batts and Blankets*** — Required for use with resilient channels, Item 7, min. 3 in. thick mineral wool batts, placed to fill interior of wall, attached to the nom 4 in. face of the studs with staples placed 24 in. OC.
ROCKWOOL — Type SAFEnSOUND, min. 1.8 pcf.

THERMAFIBER/OWENS CORNING — Type SAFB, SAFB FF

9. **Batts and Blankets*** — (As an alternate to Item 8) — Min. 3 in. thick glass fiber batts bearing the UL Classification Marking as to Surface Burning and/or Fire Resistance, friction-fitted to fill the stud cavities. See Batts and Blankets (BKNV or BZJZ) Categories for names of Classified companies.

9A. **Fiber, Sprayed*** — (Optional) — As an alternate to Batts and Blankets (Item 8), Required for use with resilient channels, Item 7, Not for use with Item 6, 6A, 6B, or 6C. — Spray applied mineral wool insulation. The fiber is applied with adhesive, at a minimum density of 4.0 pcf, to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. See Fiber, Sprayed (CCAZ).
AMERICAN ROCKWOOL MANUFACTURING, LLC — Type Rockwool Premium Plus

10. **Wall and Partition Facings and Accessories*** — (Optional, Not Shown) — Nominal 1/2 in. thick, 4 ft wide panels, for optional use as an additional layer on one or both sides of the assembly. Panels attached in accordance with manufacturer's recommendations. When the QR-500 or QR-510 panel is installed between the wood framing and the UL Classified gypsum board, the required UL Classified gypsum board layer(s) is/are to be installed as indicated as to fastener type and spacing, except that the required fastener length shall be increased by a minimum of 1/2 in. Not evaluated or intended as a substitute for the required layer(s) of UL Classified Gypsum Board.
PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock QR-500 or QR-510

MKM
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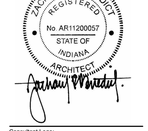
Certification: 09.13.2024 BID SET



Consultant Logo:

Key Plan:

THE LANDING 3.0

NEW CONSTRUCTION
555 S. HARRISON ST.
Fort Wayne, Indiana 46802

REVISION		
No.	Date	Revision

DRAWING CONTENTS:
UL ASSEMBLIES (U301)

ISSUE DATE: 09.13.2024
PROJECT NO. 23029

DRAWING NO.
G-121n

Plot Time/Date: 9/13/2024 2:48:25 PM
Drawing Name: Template.rvt

U301 SPECIFICATIONS

11. **Cementitious Backer Units*** — (Optional Item Not Shown — For Use On Face Of 2 Hr Systems With All Standard Items Required) — 7/16 in., 1/2 in., 5/8 in., 3/4 in. or 1 in. thick, min. 32 in. wide. Applied horizontally or vertically with vertical joints centered over studs. Face layer fastened over gypsum board to studs and runners with cement board screws of adequate length to penetrate stud by a minimum of 3/8 in. for steel framing members, and a minimum of 3/4 in. for wood framing members spaced a max of 8 in. OC.
NATIONAL GYPSUM CO — Type DuraBacker, PermaBase, DuraBacker Plus, or PermaBase Plus

12. **Wall and Partition Facings and Accessories*** — (Optional, Not Shown) - When the Wall Assembly is used as an External Wall, on the External side of the wall one of the following Wall and Partition and Facing Accessories may be used, refer to items (A) to (C) below.

A. **Non Insulated system with metal channels** — Install moisture barrier over the Gypsum Board Item 4 and Install Acry Metal Channels vertically at a horizontal spacing not greater than 24 inches OC., over the moisture barrier. Acry Metal Channels attached through the moisture barrier and the Gypsum Board to the Wood Studs using fasteners specified by the manufacturer and fasteners spaced max., 24 in. OC. Install Acrytec Panels on Acry Metal Channels using 1-1/4" long corrosion coated stainless steel screws spaced at a max spacing of 24 inches OC, along with manufacturer's approved adhesive (3M 540 or Tremco Vulcum 116). Adhesive to be applied in a zigzag pattern along every channel. Joint treatment in between panels shall be Tremco illmod 600 pre compressed polyurethane foam sealant.

B. **Insulated system with metal channels** — Install moisture barrier over the Gypsum Board Item 4. Install galvanized Z girt channels specified by the manufacturer over the moisture barrier and the Gypsum Board Item 4. Z girt channels to be installed horizontally at a max. spacing of 24" OC. Z girt channels attached through the Gypsum Board and the moisture barrier to the wood studs with screws provided by the manufacturer at a max spacing of 24 inches OC. Install mineral wool insulation between the Z girts. Maximum thickness of mineral wool insulation not to exceed 6 in. As per manufacturer's instructions install Acry Metal Channels vertically over the Z girts at a max horizontal spacing of 24 in. OC. Acrytec Panels installed on Acry channel with 1-1/4" long corrosion coated stainless steel screws at a max spacing of 24 in. OC. along with manufacturers approved adhesive (3M 540 or Tremco Vulcum 116). Adhesive to be applied in a zigzag pattern along every channel. Joint treatment in between panels to be Tremco illmod 600 pre compressed polyurethane foam sealant.

C. **Non insulated wood strapping system** — Install moisture barrier over the Gypsum Board Item 4 and Install 1" x 3" wood strapping vertically at a horizontal spacing not greater than 24 inches OC., over the moisture barrier. 1" x 3" wood strapping attached through the moisture barrier and the Gypsum Board to the Wood studs using fasteners specified by the manufacturer and fasteners spaced max., 24 in. OC. Acrytec Panels to be installed on the 1" x 3" wood strapping using manufacturers approved stainless steel fasteners spaced at maximum 24 inches OC along with Tremco Vulcum 116 adhesive applied in a zigzag pattern along every wood strap. Joint treatment in between panels to be Tremco illmod 600 pre compressed polyurethane foam sealant.

D. **Insulated Wood Strapping System** — Install moisture barrier over the Gypsum Board Item 4. Install Extruded Polystyrene Insulation over moisture barrier and the Gypsum Board Item 4, max thickness of insulation not to exceed 4 inches. Install 1" x 3" wood strapping vertically at a horizontal spacing not greater than 24 inches OC. Wood strapping attached through the Insulation, the Gypsum Board and moisture barrier to the Wood Studs using fasteners specified by the manufacturer and fasteners spaced max. 24 in. OC. Acrytec Panels to be installed over the wood strapping using manufacturers approved stainless steel fasteners at a max spacing of 24 in. OC and Tremco Vulcum 116 adhesive applied in a zigzag pattern along every wood strap. Joint treatment in between panels to be Tremco illmod 600 pre compressed polyurethane foam sealant.

ACRYTEC PANEL INDUSTRIES — Nominal 5/8 inch thick Acrytec Panel.

13. **Foamed Plastic*** — (Optional, Not Shown - For use with Item 4Q) — Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity.
Holcim Solutions and Products US, LLC — Nexseal™ 2.0 or Nexseal™ 2.0 LE Spray Foam and Sucraseal Spray Foam. For use in Bearing and Non-Load Bearing Walls.

13A. **Foamed Plastic*** — (Optional, Not Shown - For use with Item 4S) — Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity.

HOLCIM SOLUTIONS AND PRODUCTS US, LLC — Types GacoEZSpray F4500, GacoProFill FR6500R, Gaco 052N, GacoOnePass F1850, GacoOnePass Low GWP F1880, and Gaco WallFoam 183M.

13B. **Foamed Plastic*** — (Optional, Not Shown - For use with Item 4T) — Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity.
CARLISLE SPRAY FOAM INSULATION — Types SealTite ONE, SealTite Pro Closed Cell (CC), SealTite Pro Open Cell (OC), SealTite Pro OCX, SealTite Pro No Trim 21, SealTite Pro One Zero, Foamsulate Closed Cell, Foamsulate OCX, Foamsulate 70, and Foamsulate HFO.

13C. **Foamed Plastic*** - (Optional, Not Shown – For use with Item 4U) - Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity.

BASF CORP – Types Enertite® NM, Enertite® G, FE178®, Spraytite® 178, Spraytite® 81206, Wallitite® 200, Wallitite® US , Wallitite® US-N, Wallitite® HP+, Spraytite® Comfort XL, Wallitite® XL , Wallitite® MAX, Wallitite® LWP, Wallitite® Plus and Enertite® Max

14. **Foamed Plastic*** — (Optional, Not Shown - For use over Gypsum Board, Item 4) - Polyisocyanurate foamed plastic boards, any thickness applied vertically with vertical joints located over studs. May be used with Molded Plastic, Item 5 or any exterior facing, as authorized by the Authority Having Jurisdiction and installed in accordance with the manufacturer's installation instructions.
HUNTER PANELS, A DIVISION OF CARLISLE CONSTRUCTION MATERIALS, LLC — "Xci Class A", "Xci 286", "Xci Foil (Class A)", "Xci CG", "Xci Foil", "Xci CG NH", "Xci Foil NH"

15. **Building Units*** — (Optional, Not Shown - For use over Gypsum Board, Item 4) Polyisocyanurate composite foamed plastic boards, any thickness, applied vertically with vertical joints located over studs. May be used with Molded Plastic, Item 5 or any exterior facing, as authorized by the Authority Having Jurisdiction and installed in accordance with the manufacturer's installation instructions.
HUNTER PANELS, A DIVISION OF CARLISLE CONSTRUCTION MATERIALS, LLC — "Xci NB", "Xci Ply"

16. **Building Units –** (Optional Item Not Shown – For use over Gypsum Board, Item 4) 1 in., 2 in. or 3 in. thick, 4 ft. wide – Applied vertically or horizontally with vertical joints centered over studs. Fastened to studs and runners with wafer head screws of adequate length to penetrate framing by a minimum of of ¾ in., spaced a max 8 in. o.c.

NATIONAL GYPSUM CO – Type PBCI

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

Last Updated on 2024-06-14

MKM
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435 E. Brackenridge St.
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Certification: 09.13.2024 BID SET

Consultant Logo:

Key Plan:

THE LANDING 3.0

NEW CONSTRUCTION
555 S. HARRISON ST.
Fort Wayne, Indiana 46802

REVISION

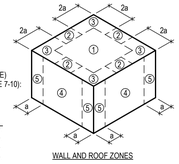
No.	Date	Revision

DRAWING CONTENTS:
UL ASSEMBLIES (U301)

ISSUE DATE: 09.13.2024
PROJECT NO. 23029

DRAWING NO.
G-121o

Plot Time/Date: 9/17/2024 2:48:26 PM
Drawing Name: temp.pln



DESIGN LOADS

DESIGN IS IN ACCORDANCE WITH:
2012 INTERNATIONAL BUILDING CODE AS AMENDED BY THE 2014 INDIANA BUILDING CODE.
ASCE 7-10, MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES.

RISK CATEGORY: II

DEAD LOADS
FLOOR 2: 125 PSF
FLOORS 3-6: 35 PSF
ROOF: 25 PSF

PARTITION LOADS:
FLOOR 2-6: 15 PSF WITHIN THE APARTMENTS

LIVE LOADS:
FLOOR 2-6: 40 PSF (LIVE LOADS REDUCED AS PERMITTED BY BUILDING CODE)
STAIRS: 100 PSF
ROOF LIVE LOAD: 20 PSF

SNOW LOAD
GROUND SNOW LOAD (P_g): 20 PSF
FLAT ROOF SNOW LOAD (P_f): 20 PSF
SNOW EXPOSURE FACTOR (C_e): 1.0
SNOW THERMAL FACTOR (C_t): 1.0
SNOW IMPORTANCE FACTOR (I): 1.0

SEISMIC LOAD
SEISMIC IMPORTANCE FACTOR (I): 1.0
SEISMIC SITE CLASS: D
S_s: 0.117 S_1: 0.061
S_{ds}: 0.124 S_{d1}: 0.098
SEISMIC DESIGN CATEGORY: B
BASIC SEISMIC FORCE RESISTING SYSTEM: STEEL CONCENTRICALLY BRACED FRAMES NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE AND LIGHT-FRAMED WALLS SHEATHED WITH WOOD STRUCTURAL PANELS RATED FOR SHEAR
SEISMIC RESPONSE COEFFICIENT (C_s): 0.041
RESPONSE MODIFICATION FACTOR (R): 3
OVERSTRENGTH FACTOR (OMEGA): 3
DEFLECTION AMPLIFICATION FACTOR (C_d): 3
SEISMIC BASE SHEAR: 124 KIPS
ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE

WIND LOAD
ULTIMATE 3-SECOND WIND SPEED (V): 115 MPH
WIND EXPOSURE: B
INTERNAL PRESSURE COEFFICIENT: +/- 0.18 (ENCLOSED STRUCTURE)
COMPONENT AND CLADDING PRESSURES (STRENGTH LEVEL - ASCE 7-10):

END DIMENSION a = 7 FT

EFFECTIVE AREA	WALL ZONE 4	WALL ZONE 5
10 SF	+28 PSF / -28 PSF	+28 PSF / -51 PSF
50 SF	+26 PSF / -27 PSF	+26 PSF / -46 PSF
100 SF	+24 PSF / -26 PSF	+24 PSF / -41 PSF
500 SF	+20 PSF / -23 PSF	+20 PSF / -31 PSF

EFFECTIVE AREA	ROOF ZONE 1	ROOF ZONE 2	ROOF ZONE 3
10 SF	+16 PSF / -41 PSF	+16 PSF / -64 PSF	+16 PSF / -87 PSF
100 SF	+16 PSF / -33 PSF	+16 PSF / -54 PSF	+16 PSF / -73 PSF

WALL AND ROOF ZONES

NOTES:
a. A 'Kd' OF 0.85 WAS USED IN THE DEVELOPMENT OF THE VALUES ABOVE; THEREFORE ONLY USE THE VALUES ABOVE IN CONJUNCTION WITH THE LOAD COMBINATIONS SPECIFIED IN SECTION 2.3 AND 2.4 OF ASCE 7-10.
b. PRESSURES AND SUCTION ON SOFFITS SHALL BE THE SAME AS THE CORRESPONDING WALL ZONES 4 AND 5.
c. THE STRENGTH LEVEL (ULTIMATE) PRESSURES SHOWN ABOVE ARE TO BE MULTIPLIED BY 0.6 TO REDUCE THEM DOWN TO SERVICE LEVEL.
d. BASED ON THE OVERALL BUILDING CONDITIONS THAT CREATE THE GREATEST MAGNITUDE PRESSURES.

STRUCTURAL INSPECTIONS

STRUCTURAL INSPECTIONS SHALL BE PERFORMED ACCORDING TO THE PROJECT SPECIFICATIONS.

SUBMITTALS

THE CONTRACTOR SHALL PREPARE SHOP DRAWINGS TO ENABLE ALL PARTS OF THE WORK TO BE FABRICATED AND CONSTRUCTED IN ACCORDANCE WITH THE STRUCTURAL DRAWINGS AND SPECIFICATIONS. ENGINEERING RESOURCES WILL REVIEW THESE SHOP DRAWINGS FOR GENERAL COMPLIANCE WITH THE DESIGN INTENT ONLY. OMISSION OF ANY MATERIALS REQUIRED BY THE CONTRACT DOCUMENTS FROM SHOP DRAWINGS OR SUBMITTALS SHALL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY FOR FURNISHING THESE ITEMS, REGARDLESS OF WHETHER THE ITEM HAS BEEN REVIEWED. THE CONTRACTOR IS RESPONSIBLE FOR ALL DIMENSIONS, ACCURACY AND FIT UP OF WORK.

WORK REQUIRING SUBMITTALS FOR STRUCTURAL ENGINEER REVIEW SHALL NOT BE STARTED BY THE CONTRACTOR PRIOR TO APPROVAL OF RELEVANT SUBMITTALS. ALL SUBMITTALS SHALL BE REVIEWED BY THE CONTRACTOR PRIOR TO FORWARDING TO THE ARCHITECT AND STRUCTURAL ENGINEER. THE CONTRACTOR SHALL VERIFY THE FOLLOWING ITEMS AND STAMP THE SUBMITTAL TO VERIFY THAT THESE ITEMS HAVE BEEN ADDRESSED:

1. THE SUBMITTAL IS REQUIRED AND WHERE THE PRODUCT IS USED ON THE PROJECT.
2. THE SUBMITTAL IS BASED ON THE MOST CURRENT DRAWINGS INCLUDING ALL ADDENDA AND APPROVED CHANGES (ASI, PR, ETC.)
3. THE ARCHITECT'S AND STRUCTURAL ENGINEER'S COMMENTS FROM PREVIOUS SUBMITTALS HAVE BEEN ADDRESSED.
4. THE WORK SHOWN ON THE SUBMITTAL HAS BEEN COORDINATED WITH THE WORK OF ALL OTHER TRADES.
5. FOR RESUBMITTALS, REVISIONS FROM PREVIOUS SUBMITTALS ARE CLEARLY IDENTIFIED.
6. THE CONTRACTOR SHALL PROVIDE ALL "FIELD VERIFY" REQUESTS AND DIMENSIONS ON THE SUBMITTALS.
7. THE SUBMITTAL IS COMPLETE.

THE FABRICATOR/SUPPLIER SHALL NEITHER USE NOR REPRODUCE ANY PART OF THE STRUCTURAL DRAWINGS AS PART OF THE SHOP OR ERECTION DRAWINGS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR EXPEDITING SUBMITTALS IN ORDER TO MEET THE CONSTRUCTION SCHEDULE WHILE ALLOWING 10 BUSINESS DAYS FOR ENGINEER'S REVIEW OF EACH SUBMITTAL. THE CONTRACTOR IS ALSO RESPONSIBLE FOR OBTAINING AND DISTRIBUTING THE MOST CURRENT CONTRACT DOCUMENTS TO SUBCONTRACTORS PRIOR TO PREPARATION OF SUBMITTALS.

PROVIDE SUBMITTALS FOR EACH OF THE FOLLOWING ITEMS:
1. CONCRETE MIX DESIGNS
2. CONCRETE REINFORCING
3. CONCRETE MASONRY UNITS
4. CMU REINFORCING
5. CMU MORTAR AND GROUT MIX DESIGNS
6. POST-INSTALLED ANCHORS INCLUDING INSTALLATION INSTRUCTIONS AND PROCEDURES
7. POST-INSTALLED ANCHORS INSTALLER QUALIFICATIONS
8. COLUMN ANCHOR BOLT LAYOUT AND DETAILS
9. STRUCTURAL STEEL (INCLUDING AISC CERTIFICATION)
10. MISCELLANEOUS STEEL (EQUIPMENTS SUPPORT FRAMES, LINTELS, EMBEDS, ETC.)
11. METAL DECK
12. ENGINEERED WOOD PRODUCTS (LVL, PSL, LSL)

SUBMIT DELEGATED DESIGN SUBMITTALS FOR STRUCTURAL ENGINEER OF RECORD REVIEW FOR EACH OF THE FOLLOWING ITEMS:
1. RAMMED AGGREGATE PIER FOUNDATION SYSTEM
2. COLD FORMED METAL FRAMING
3. SHOP FABRICATED WOOD TRUSSES
4. GUARDRAILS, AND HANDRAILS
5. STRUCTURAL STEEL CONNECTIONS (AS NOTED IN THE STEEL NOTES)
6. HELICAL PILES INCLUDING HELICAL PILE INSTALLATION RECORDS
7. SIMPSON ATS SYSTEM

ALL SUBMITTALS INDICATED AS DELEGATED DESIGN SHALL MEET THE FOLLOWING REQUIREMENTS. SUBMITTALS THAT DO NOT CONTAIN THIS INFORMATION WILL BE REJECTED. THE STRUCTURAL ENGINEER'S LIMITED REVIEW OF DELEGATED DESIGN SUBMITTALS ARE FOR GENERAL CONFORMANCE WITH THE DESIGN INTENT, DESIGN LOADING, AND IMPOSED LOADS ON THE PRIMARY STRUCTURE.

DELEGATED DESIGN SUBMITTALS SHALL INCLUDE DESIGN CALCULATIONS, MEMBER PROPERTIES, FASTENER REQUIREMENTS, ASSEMBLY DETAILS AND CONNECTION DETAILS

DELEGATED DESIGN CALCULATIONS SHALL BE SUBMITTED PRIOR TO, OR INCLUDED WITH, THE ASSOCIATED SHOP DRAWING SUBMITTAL.

THE CONTRACTOR OR THEIR SUPPLIER SHALL EMPLOY OR RETAIN A PROFESSIONAL ENGINEER LICENSED IN THE STATE WHERE THE PROJECT IS LOCATED TO DESIGN AND DETAIL THE ITEMS NOTED AS A DELEGATED DESIGN. DELEGATED DESIGN CALCULATIONS AND RELATED DRAWINGS SHALL CONTAIN THE FOLLOWING, AS A MINIMUM:

1. COVER PAGE SIGNED AND SEALED BY THE DELEGATED DESIGN STRUCTURAL ENGINEER INCLUDING A STATEMENT OF CERTIFICATION THAT THE SUBMITTED CALCULATIONS ARE IN CONFORMANCE WITH THE DESIGN CRITERIA PROVIDED IN THE CONTRACT DOCUMENTS AND THAT THE RELATED SHOP DRAWINGS ARE IN CONFORMANCE WITH THE SUBMITTED CALCULATIONS.
2. TABLE OF CONTENTS PLACED ON OR IMMEDIATELY FOLLOWING THE COVER SHEET.
3. SUMMARY OF APPLICABLE CODE CRITERIA, LOAD DATA, AND PERFORMANCE CRITERIA AS OUTLINED IN THE CONTRACT DOCUMENTS.
4. CLEAR DEFINITION OF THE LOCATION(S) IN THE STRUCTURE WHERE EACH CALCULATION APPLIES. CROSS REFERENCE THE SHOP DRAWINGS WITH SPECIFIC DETAIL REFERENCES.
5. LOCATION, TYPE, MAGNITUDE AND DIRECTION OF ALL LOADS IMPOSED ON THE STRUCTURE BY THE DELEGATED DESIGN SYSTEM/COMPONENTS ALONG WITH STRUCTURAL DEFLECTIONS THE COMPONENTS ARE ABLE TO ACCOMMODATE.

PRODUCT DATA SUBMITTALS

THE CONTRACTOR SHALL SUBMIT FOR APPROVAL PRODUCT DATA FOR THE SPECIFIC ITEMS LISTED BELOW. CONTRACTOR SHALL NOT USE PRODUCTS OTHER THAN THOSE SUBMITTED WITHOUT THE WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER.

1. CONCRETE CURING COMPOUND
2. CONCRETE JOINT SEALANT
3. WATERSTOPS
4. EXPANSION ANCHORS
5. ADHESIVE ANCHORS
6. NON-SHRINK GROUT
7. COLD-FORMED STEEL FRAMING INCLUDING CONNECTOR HARDWARE
8. CONCRETE ACCESSORIES
9. ENGINEERED WOOD PRODUCTS (I-JOISTS, LVL, PSL, LSL, GLU-LAM)
10. WOOD CONNECTOR HARDWARE (SIMPSON PRODUCTS SPECIFIED)

ALL PRODUCT SUBSTITUTION REQUESTS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER IN WRITING AND APPROVED PRIOR TO CONSTRUCTION. ALL SUBSTITUTED PRODUCTS SHALL EXHIBIT EQUAL OR BETTER PERFORMANCE THAN THE SPECIFIED PRODUCT IN ORDER TO BE CONSIDERED FOR APPROVAL BY THE STRUCTURAL ENGINEER.

DO NOT SUBMIT MSDS OR SDS SHEETS WITH PRODUCT DATA SUBMITTAL. ENGINEER IS NOT RESPONSIBLE FOR REVIEW OF THIS INFORMATION.

GENERAL NOTES

THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING COPIES OF ALL DRAWINGS AND SPECIFICATIONS TO THEIR SUBCONTRACTORS, INCLUDING ALL REVISIONS, AND FOR ENSURING THAT FIELD PERSONNEL HAVE THE MOST CURRENT DRAWINGS AND SPECIFICATIONS ON THE JOB SITE AT ALL TIMES.

DO NOT SCALE DRAWINGS. REFER TO WRITTEN DIMENSIONS AND INFORMATION ON THE DRAWINGS. ALL DATA ON EXISTING CONSTRUCTION SHOWN ON THE STRUCTURAL DRAWINGS IS APPROXIMATE AND IS SHOWN FOR GENERAL REFERENCE BASED ON AVAILABLE INFORMATION. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS IN THE FIELD THAT AFFECT CONSTRUCTION PRIOR TO SHOP DRAWINGS SUBMITTALS OR COMMENCING WORK ON THE AFFECTED ITEMS.

THE CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF THE STRUCTURAL DRAWINGS AND SPECIFICATIONS WITH THE DRAWINGS AND SPECIFICATIONS OF ALL OTHER DISCIPLINES/TRADES ALONG WITH DELEGATED DESIGN ELEMENTS. IF A DISCREPANCY IS FOUND THE CONTRACTOR SHALL SUBMIT A WRITTEN REQUEST FOR CLARIFICATION AND SHALL NOT PROCEED WITH THE AFFECTED WORK UNTIL A WRITTEN RESOLUTION IS PROVIDED BY THE DESIGN TEAM.

ANY CONFLICTS OBSERVED BETWEEN THE WRITTEN SPECIFICATIONS AND THE STRUCTURAL DRAWINGS DURING PROJECT BIDDING OR PROJECT CONSTRUCTION SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE STRUCTURAL ENGINEER.

THE CONTRACTOR SHALL COORDINATE WITH ALL OTHER DISCIPLINES/TRADES FOR ANCHORED, EMBEDDED AND SUPPORTED ITEMS WHICH AFFECT THE STRUCTURAL DRAWINGS AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.

THE CONTRACTOR IS SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS AND METHODS, JOBSITE SAFETY, AND ADHERING TO ALL APPLICABLE SAFETY CODES AND REGULATIONS. SITE OBSERVATION VISITS BY THE ENGINEER AND ENGINEER'S REVIEW OF SUBMITTALS DO NOT INCLUDE REVIEW OF MEANS AND METHODS OR THE CONTRACTOR'S JOBSITE SAFETY PROCEDURES/PROGRAM, NOR DO THEY CONSTRUE ASSUMPTION BY THE ENGINEER OF ANY RESPONSIBILITY FOR THESE ITEMS. SITE OBSERVATION VISITS AND FIELD REPORTS BY THE ENGINEER ARE SOLELY FOR THE PURPOSE OF DETERMINING IF THE WORK OF THE CONTRACTOR IS IN GENERAL CONFORMANCE WITH THE CONTRACT DOCUMENTS AND ARE NOT MEANT AS AN INSPECTION OR SPECIAL INSPECTION OF THE QUALITY OF THE WORK.

THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER THE BUILDING IS FULLY ERECTED. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE DESIGN, INSTALLATION AND REMOVAL OF ALL TEMPORARY SHORING, SHEETING, TEMPORARY BRACING OR GUYING, AND OTHER MEASURES NEEDED TO MAINTAIN STABILITY OF THE STRUCTURE AT ALL TIMES. IN ADDITION, THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND INSTALLATION OF CRANE AND BUCK HOIST FOUNDATIONS. WHERE ANY OF THE ABOVE ITEMS ARE SHOWN ON THE DRAWINGS IT IS FOR CONCEPT ONLY. THE CONTRACTOR SHALL EMPLOY OR ENGAGE A LICENSED PROFESSIONAL ENGINEER IN THE STATE WHERE THE PROJECT IS LOCATED TO DESIGN THE ABOVE ITEMS WHERE THEY ARE REQUIRED.

THE CONTRACTOR SHALL NOT NOTCH, CUT OR OTHERWISE MODIFY ANY STRUCTURAL MEMBER WITHOUT WRITTEN APPROVAL OF THE ENGINEER, UNLESS SPECIFICALLY DETAILED IN THE DRAWINGS. IF STRUCTURAL MODIFICATIONS ARE REQUIRED, COORDINATE WITH STRUCTURAL ENGINEER PRIOR TO FABRICATION AND/OR INSTALLATION OF ANY STRUCTURAL ELEMENTS.

CONTRACTOR SHALL COORDINATE ELEVATOR PITS, SHAFTS, SLAB OPENINGS, WALL OPENINGS, INCLUDING ANY TEMPORARY OPENINGS NECESSARY FOR ELEVATOR INSTALLATION, FRAMING LOCATIONS, GUIDE RAIL SUPPORTS, DIVIDER BEAMS, HOIST BEAMS AND SUMP PITS WITH ELEVATOR SUPPLIER AND ALL OTHER AFFECTED TRADES PRIOR TO CONSTRUCTION AS REQUIRED FOR PROPER INSTALLATION AND OPERATION.

LOADS IMPOSED ON STRUCTURE AND LOADS SUSPENDED FROM STRUCTURE

THE CONTRACTOR SHALL FOLLOW THE REQUIREMENTS OF ASCE37, ADOPTED EDITION. FOR ASSUMED CONSTRUCTION LIVE LOAD REQUIREMENTS, SEE "DESIGN LOADS". IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THAT CONSTRUCTION LOADS DO NOT EXCEED THE CAPACITY OF ANY STRUCTURAL ELEMENT AT THE TIME THE LOADS ARE APPLIED, INCLUDING BUT NOT LIMITED TO: WEIGHTS OF MATERIALS, WEIGHTS OF EQUIPMENT AND WORKERS, AND ALL LOADS APPLIED FROM TEMPORARY LIFTS, HOISTS AND CRANES, ETC.

LOADS IMPOSED ON THE STRUCTURE BY CONSTRUCTION EQUIPMENT AND BUILDING SYSTEMS (CURTAIN WALLS, STAIRS, ELEVATORS, DUCTWORK, PIPING, MEP EQUIPMENT, CLADDING, AND ANY OTHER ITEMS) SHALL IMPART HORIZONTAL LOADS ONLY AT FLOOR AND ROOF DIAPHRAGMS AND MAY NOT CAUSE A TORSIONAL LOAD ON ANY COMPONENT OF THE STRUCTURE UNLESS NOTED OTHERWISE ON THE STRUCTURAL DRAWINGS. VERTICAL LOADS IMPOSED BY THESE ITEMS SHALL NOT OVERLOAD OR CAUSE EXCESS DEFLECTION IN ANY STRUCTURAL COMPONENT. SUBMITTALS FOR THESE ITEMS SHALL LIST ALL LOADS IMPOSED ON THE PRIMARY STRUCTURE FOR REVIEW BY STRUCTURAL ENGINEER.

THE CONTRACTOR SHALL COORDINATE AND PROVIDE SUPPLEMENTAL SUPPORT FRAMING FOR ITEMS SUSPENDED FROM THE STRUCTURE INCLUDING, BUT NOT LIMITED TO, CEILINGS, LIGHTS, PIPING, DUCTWORK, MEP EQUIPMENT, CONDUIT, ETC. SUPPLEMENTAL FRAMING SHALL DISTRIBUTE THE LOADING TO PRIMARY FRAMING MEMBERS TO AVOID LARGE POINT LOADS ON INDIVIDUAL STRUCTURAL COMPONENTS. LOADS SHALL NOT BE SUPPORTED FROM STEEL ROOF DECK OR STEEL FORM DECK. LOADS SUSPENDED FROM HANGER TABS OR POST INSTALLED ANCHORS FROM BOTTOM OF COMPOSITE FLOOR DECK SHALL NOT EXCEED 50 POUNDS AT ANY LOCATION.

DISSIMILAR METALS

DISSIMILAR METALS SHALL BE ELECTRICALLY ISOLATED TO PREVENT GALVANIC CORROSION USING NON-CONDUCTIVE WASHERS, SLEEVES, GASKETS, COATINGS OR OTHER METHODS APPROVED BY THE STRUCTURAL ENGINEER.

SUBGRADE, EXCAVATION, & BACKFILL

A SUBSURFACE SOIL INVESTIGATION WAS COMPLETED BY ALT & WITZIG ENGINEERING, INC. ON APRIL 24, 2024. ENGINEERING RESOURCES, INC. HAS RELIED EXCLUSIVELY ON THE CONTENTS AND RECOMMENDATIONS WITHIN THIS REPORT BUT ACCEPTS NO RESPONSIBILITY FOR ITS CONTENTS OR ACCURACY.

AS RECOMMENDED IN THE SOILS REPORT, CONVENTIONAL SHALLOW SPREAD FOOTINGS SHALL BE SUPPORTED BY A RAMMED AGGREGATE PIER FOUNDATION SYSTEM. THE SLAB ON GRADE IS TO BE SUPPORTED BY RAMMED AGGREGATE PIERS AS WELL.

AN ALLOWABLE SOIL BEARING CAPACITY OF 6000 PSF FOR COLUMN AND STRIP FOOTINGS WAS USED IN THE DESIGN OF THE FOOTINGS. THIS VALUE IS BASED ON THE RECOMMENDATIONS OF GEOPIER. THE INSTALLER OF THE RAMMED AGGREGATE PIER FOUNDATION SYSTEM ASSUMES THE DESIGN RESPONSIBILITY FOR PROVIDING THE SPECIFIED DESIGN SOIL BEARING CAPACITY.

ALL FOOTINGS SHALL REST ON RAMMED AGGREGATE PIER ELEMENTS AT THE DEPTHS INDICATED. SLAB ON GRADE SHALL BE SUPPORTED BY RAMMED AGGREGATE PIER ELEMENTS.

FOOTING EXCAVATIONS SHALL BE COORDINATED WITH THE RAMMED AGGREGATE PIER INSTALLER TO ENSURE THAT FOOTINGS ARE PREPARED ACCORDING TO THE RECOMMENDATIONS AND REQUIREMENTS OF THE RAMMED AGGREGATE PIER FOUNDATION SYSTEM DESIGN.

THE CONTRACTOR SHALL HIRE A REGISTERED GEOTECHNICAL ENGINEER TO VERIFY THE BEARING CAPACITY OF THE SOIL MEETS OR EXCEEDS THE REQUIRED BEARING CAPACITY.

THE CONTRACTOR SHALL FOLLOW SPECIFICATIONS FOR SUBGRADE AND GRADE PREPARATION FOR FILL, FOUNDATIONS, FLOOR SLABS AND PAVEMENT SUPPORT, SELECTION, PLACEMENT AND COMPACTION OF FILL SOILS ACCORDING TO THE SOILS REPORT AND THE RAMMED AGGREGATE PIER FOUNDATION SYSTEM DESIGN.

FOUNDATION CONDITIONS NOTED DURING CONSTRUCTION, WHICH DIFFER FROM THOSE DESCRIBED IN THE GEOTECHNICAL REPORT, SHALL BE REPORTED TO THE STRUCTURAL ENGINEER AND GEOTECHNICAL ENGINEER BEFORE FURTHER CONSTRUCTION IS ATTEMPTED.

EXCAVATIONS FOR ALL FOUNDATIONS SHALL BE CLEANED AND SHALL BE PROTECTED AND MAINTAINED UNIFORM UNTIL CONCRETE IS PLACED.

FOOTINGS SHALL BE PLACED THE SAME DAY EXCAVATIONS ARE OPENED. OTHERWISE ADEQUATELY PROTECT THE EXPOSED MATERIAL IN THE BASE OF THE FOOTING EXCAVATIONS FROM ANY DETRIMENTAL CHANGE IN CONDITION, INCLUDING DISTURBANCE, RAIN, OR FREEZING. SURFACE RUNOFF SHALL NOT BE ALLOWED TO ENTER THE EXCAVATIONS.

THE SUBGRADE FOR ALL FOUNDATIONS AND SLABS SHALL BE INSPECTED AND APPROVED BY GEOTECHNICAL ENGINEER IMMEDIATELY PRIOR TO PLACING FOUNDATION CONCRETE. CONCRETE SHALL NOT BE PLACED INTO OR AGAINST SUBGRADE CONTAINING FREE WATER.

AFTER CONCRETE PLACEMENT, PROVIDE MEASURES AS REQUIRED TO PREVENT WATER PENETRATION INTO THE FOUNDATION SUBGRADES UNTIL BACKFILLING AROUND FOUNDATIONS IS COMPLETE.

AFTER FOUNDATION CONSTRUCTION IS COMPLETE, PROPERLY PLACE AND COMPACT BACKFILL MATERIAL. ON BOTH SIDES OF BELOW-GRADE WALLS, BACKFILL EVENLY ON EACH SIDE OF EACH WALL TO PREVENT UNBALANCED SOIL LOADS AGAINST THE WALL.

POST-INSTALLED ANCHOR NOTES

POST-INSTALLED ANCHORS SHALL ONLY BE USED WHERE SPECIFIED ON THE CONSTRUCTION DOCUMENTS.

THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE STRUCTURAL ENGINEER PRIOR TO INSTALLING POST-INSTALLED ANCHORS IN PLACE OF MISSING OR MISPLACED CAST-IN-PLACE ANCHORS. CARE SHALL BE TAKEN IN PLACING POST-INSTALLED ANCHORS TO AVOID CONFLICTS WITH EXISTING REBAR.

CONTRACTOR TO SUBMIT MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR EACH TYPE OF POST-INSTALLED ANCHOR USED ON THE PROJECT. ALL POST-INSTALLED ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER INSTRUCTIONS. FOR ADHESIVE ANCHORS, MAINTAIN ENVIRONMENTAL CONDITIONS WITHIN LIMITS RECOMMENDED BY MANUFACTURER. DO NOT INSTALL UNDER ENVIRONMENTAL CONDITIONS OUTSIDE MANUFACTURER'S ABSOLUTE LIMITS.

ANCHOR CAPACITY USED IN DESIGN SHALL BE BASED ON THE TECHNICAL DATA PUBLISHED BY THE ANCHOR MANUFACTURER OR SUCH OTHER METHOD AS APPROVED BY THE STRUCTURAL ENGINEER. SUBSTITUTION REQUESTS FOR NON-BASIS OF DESIGN PRODUCTS MUST BE APPROVED IN WRITING BY THE STRUCTURAL ENGINEER OF RECORD PRIOR TO USE. CONTRACTOR SHALL PROVIDE CALCULATIONS THAT ARE PREPARED & SEALED BY A QUALIFIED PROFESSIONAL ENGINEER IN THE STATE WHERE THE PROJECT IS LOCATED DEMONSTRATING THAT THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING EQUIVALENT OR BETTER PERFORMANCE VALUES OF THE SPECIFIED PRODUCT USING THE APPROPRIATE DESIGN PROCEDURE AND/OR STANDARD(S) AS REQUIRED BY THE BUILDING CODE. CALCULATIONS SHALL CONSIDER THE IN-PLACE CONDITIONS, SUCH AS REDUCTIONS DUE TO EDGE DISTANCES AND SPACING. SUBSTITUTIONS WILL BE EVALUATED BY HAVING AN ICC ESR SHOWING COMPLIANCE WITH THE RELEVANT BUILDING CODE FOR SEISMIC USES, LOAD RESISTANCE, INSTALLATION CATEGORY, AND AVAILABILITY OF COMPREHENSIVE INSTALLATION INSTRUCTIONS. ADHESIVE ANCHOR EVALUATION WILL ALSO CONSIDER CREEP, IN-SERVICE TEMPERATURE AND INSTALLATION TEMPERATURE.

THE CONTRACTOR SHALL ARRANGE FOR AN ANCHOR MANUFACTURER'S REPRESENTATIVE TO PROVIDE ONSITE INSTALLATION TRAINING FOR ALL OF THEIR ANCHORING PRODUCTS SPECIFIED. THE STRUCTURAL ENGINEER MUST RECEIVE DOCUMENTED CONFIRMATION THAT ALL OF THE CONTRACTOR'S PERSONNEL WHO INSTALL ANCHORS ARE TRAINED PRIOR TO THE COMMENCEMENT OF INSTALLING ANCHORS. ADDITIONALLY, INSTALLATION OF ADHESIVE ANCHORS IN HORIZONTAL TO VERTICALLY OVERHEAD ORIENTATION SHALL BE DONE BY CERTIFIED ADHESIVE ANCHOR INSTALLER AS CERTIFIED THROUGH ACI AND IN ACCORDANCE WITH ACI 318-14 (SECTION 17.8.2.2). PROOF OF CURRENT CERTIFICATION SHALL BE SUBMITTED PRIOR TO COMMENCEMENT OF INSTALLATION.

CAST-IN-PLACE CONCRETE NOTES

REINFORCED CONCRETE HAS BEEN DESIGNED IN ACCORDANCE WITH THE ADOPTED EDITION OF THE BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (ACI 318) AND COMMENTARY (ACI 318R).

CONCRETE REINFORCEMENT SHALL BE DETAILED, FABRICATED, LABELED, SUPPORTED, SPACED IN FORMS, AND SECURED IN PLACE IN ACCORDANCE WITH THE PROCEDURES AND REQUIREMENTS OUTLINED IN THE ADOPTED EDITIONS OF THE FOLLOWING STANDARDS: ACI 301, ACI 315, ACI 318, ACI DETAILING MANUAL (SP66), AND CRSI MANUAL OF STANDARD PRACTICE.

MIXING, TRANSPORTING, AND PLACING OF CONCRETE SHALL CONFORM TO THE ADOPTED EDITION OF THE SPECIFICATIONS FOR STRUCTURAL CONCRETE (ACI 301). READY-MIXED CONCRETE SHALL CONFORM TO THE REQUIREMENTS OF ASTM C94. IN CASE OF A DISCREPANCY, THE PLANS AND SPECIFICATIONS SHALL GOVERN.

CONCRETE PLACEMENT SHALL COMPLY WITH THE GUIDE FOR MEASURING, MIXING, TRANSPORTING, AND PLACING CONCRETE (ACI 304), FOR PLACING CONCRETE IN A CONTINUOUS OPERATION WITHIN PLANNED JOINTS OR SECTIONS. DO NOT BEGIN CONCRETE PLACEMENT UNTIL OTHER AFFECTED WORK IS COMPLETED.

IN COLD WEATHER CONDITIONS, MIXING, PLACING, FINISHING, CURING AND PROTECTION OF CONCRETE SHALL BE PERFORMED IN ACCORDANCE WITH THE ADOPTED EDITION OF ACI 306R, COLD WEATHER CONCRETING.

IN HOT WEATHER CONDITIONS, MIXING, PLACING, FINISHING, CURING AND PROTECTION OF CONCRETE SHALL BE PERFORMED IN ACCORDANCE WITH THE ADOPTED EDITION OF ACI 305R, HOT WEATHER CONCRETING.

QUALITY ASSURANCE SHALL COMPLY WITH PROVISIONS OF SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS (ACI 301), HOT WEATHER CONCRETING (ACI 305), COLD WEATHER CONCRETING (ACI 306), BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318), AND CRSI "MANUAL OF STANDARD PRACTICE."

SLABS ON GRADE SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE ADOPTED EDITION OF THE GUIDE FOR CONCRETE FLOOR AND SLAB CONSTRUCTION (ACI 302.1R).

THE CONTRACTOR SHALL SUBMIT FOR REVIEW BY THE STRUCTURAL ENGINEER A MIX DESIGN FOR EACH PROPOSED CLASS OF CONCRETE. EACH MIX DESIGN SHALL BE IDENTIFIED BY A MIX NUMBER OR OTHER UNIQUE IDENTIFICATION. THE CONTRACTOR SHALL NOT VARY FROM THE MIX DESIGNS NOR USE ANY CONCRETE OTHER THAN THE APPROVED MIX DESIGNS WITHOUT THE APPROVAL OF THE STRUCTURAL ENGINEER.

THE CONTRACTOR SHALL SUBMIT STEEL REINFORCEMENT SHOP DRAWINGS FOR REVIEW BY THE ENGINEER PRIOR TO FABRICATION. THE SHOP DRAWINGS SHALL INCLUDE SECTIONS, DETAILS, ELEVATIONS, ETC. AS REQUIRED TO CLEARLY SHOW THE PLACEMENT OF ALL REINFORCING.

REINFORCING STEEL SHALL BE ASTM A615, GRADE 60, DEFORMED BAR UNLESS OTHERWISE NOTED. ALL REINFORCING BARS ARE TO BE CONTINUOUS OR PROPERLY SPLICED, UNLESS NOTED OTHERWISE.

REINFORCING STEEL ASTM A706, GRADE 60, DEFORMED BAR SHALL BE USED WHERE REINFORCING STEEL REQUIRES WELDING (LOCATIONS NOTED ON THE DRAWING OR APPROVED BY THE STRUCTURAL ENGINEER). WELDING OF REINFORCING STEEL SHALL CONFORM TO THE LATEST EDITION OF AMERICAN WELDING SOCIETY STANDARD D1.4. E90 ELECTRODES FOR SHOP AND FIELD WELDING OF REINFORCING STEEL SHALL COMPLY WITH AWS D1.4.

REINFORCEMENT SHALL BE SUPPORTED IN ITS SPECIFIED AND PROPER POSITION BY USE OF BRICKS, WIRES, OR CHAIRS. SUCH DEVICES SHALL BE SUFFICIENTLY STRONG AND PROPERLY PLACED AT FREQUENT INTERVALS SO AS TO MAINTAIN THE COVER BETWEEN THE REINFORCING AND THE SURFACE OF THE CONCRETE. THE REINFORCEMENT SHALL BE PLACED AS SHOWN ON THE DRAWINGS WITHIN ±1/4". DESIGN OF THE SUPPORT SYSTEM SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

FIELD WELDING OR BENDING OF REINFORCING IS NOT PERMITTED EXCEPT WHERE SHOWN ON THE DRAWINGS OR OTHERWISE APPROVED.

WET STICKING (MUCKING IN) OF REINFORCEMENT IS NOT ACCEPTABLE.

WELDED WIRE REINFORCEMENT SHALL BE SMOOTH WIRE FABRIC CONFORMING TO ASTM A1064. REINFORCEMENT SHALL BE SUPPLIED IN FLAT SHEETS AND LAPPED A MINIMUM OF ONE SPACE PLUS 2 INCHES. ALL WELDED WIRE FABRIC SHALL BE SUPPORTED ON CONCRETE BRICKS, WIRE, OR CHAIRS. WELDED WIRE FABRIC SHALL NOT BE LIFTED INTO PLACE DURING CONCRETE PLACEMENT.

WELDED WIRE REINFORCEMENT SHALL BE PLACED AS FOLLOWS, UNLESS NOTED OTHERWISE:
SLABS ON GRADE: AT THE MID-POINT OF THE SLAB
SLABS ON METAL DECK: 1 1/2" DOWN FROM THE TOP OF THE SLAB

COORDINATE EMBED PLATE LOCATIONS AND SIZES WITH STRUCTURAL DETAILS AND ELEVATIONS. INSERTS AND EMBEDMENTS SHALL BE ANCHORED SECURELY AND POSITIONED SO THAT THEY WILL BE FLUSH WITH THE FINISHED CONCRETE SURFACE TO A TOLERANCE OF 1/8 INCH, UNLESS NOTED OTHERWISE. COORDINATE WITH ALL TRADES FOR THE INSTALLATION OF ALL REQUIRED SLEEVES AND INSERTS.

FOR UNDERGROUND UTILITIES ADJACENT TO FOUNDATIONS AND THROUGH FOUNDATIONS SEE TYPICAL STEP FOOTING DETAIL SHOWING STEPS IN FOOTINGS AS REQUIRED TO AVOID UNDERMINING OF STRUCTURE BY UTILITIES.

DO NOT INSTALL OR EMBED ALUMINUM ITEMS, INCLUDING BUT NOT LIMITED TO ALUMINUM CONDUIT, SLEEVES, OR EMBEDS, INTO OR IN CONTACT WITH CONCRETE.

PROVIDE SLEEVES AND BLOCKOUTS AS SHOWN ON THE APPROVED MECHANICAL, ELECTRICAL, FIRE PROTECTION AND PLUMBING SHOP DRAWINGS IN ACCORDANCE WITH THE STRUCTURAL DETAILS.

COORDINATE FLOOR DRAINS AND SLOPES WITH ARCHITECTURAL & PLUMBING PLANS. VERIFY ALL ELEVATIONS PRIOR TO CONCRETE PLACEMENT.

SEE ARCHITECTURAL DRAWINGS FOR FOUNDATION INSULATION REQUIREMENTS. ANY INSULATION SHOWN ON THE STRUCTURAL DRAWINGS IS FOR GENERAL VISUAL REFERENCE ONLY, UNLESS NOTED OTHERWISE. SEE THE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR EXACT LOCATION, PLACEMENT, THICKNESS AND MATERIAL REQUIREMENTS.

DESIGN FORMWORK TO COMPENSATE FOR DEFLECTION OF FORMS UNDER THE WET WEIGHT OF CONCRETE AS REQUIRED TO ACHIEVE THE SPECIFIED TOLERANCES.

CONCRETE SHALL NOT BE PLACED INTO OR AGAINST SUBGRADE CONTAINING FREE WATER.

WHERE NEW CONCRETE IS PLACED AGAINST HARDENED/EXISTING CONCRETE, VERIFY SOUNDNESS OF EXISTING CONCRETE AND REMOVE ALL LOOSE MATERIAL, SNOW, ICE, FROST, WATER, SOIL, DEBRIS AND OTHER DETRIMENTAL MATERIALS PRIOR TO PLACEMENT OF NEW CONCRETE. THE EXISTING CONCRETE SHALL BE MOISTENED IMMEDIATELY PRIOR TO PLACING NEW CONCRETE.

CONSTRUCTION JOINTS SHALL BE LOCATED ONLY IN ACCORDANCE WITH APPROVED SHOP DRAWINGS OR AS APPROVED BY THE STRUCTURAL ENGINEER. NO HORIZONTAL CONSTRUCTION JOINTS SHALL BE PLACED IN FOOTINGS, FOUNDATION WALLS, PIERS, MAT FOUNDATIONS, OR SLABS, UNLESS SHOWN ON DRAWINGS. VERTICAL CONSTRUCTION JOINTS IN STRIP FOOTINGS AND FOUNDATION WALLS MAY BE LOCATED AT THE DISCRETION OF THE CONTRACTOR SUBJECT TO REVIEW BY THE ENGINEER. UNLESS SPECIFICALLY NOTED OTHERWISE REINFORCING SHALL BE CONTINUOUS ACROSS JOINTS.

UNLESS NOTED OTHERWISE, IT IS THE INTENT TO PLACE SLAB ON METAL DECK CONCRETE WITHOUT THE NEED FOR TEMPORARY SHORING OF THE DECK, HOWEVER IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL DECK SPAN CONDITIONS AND CAPACITIES PRIOR TO CONCRETE PLACEMENT AND ENSURE THE CONTRACTOR'S PLACEMENT MEANS AND METHODS WILL NOT DAMAGE OR LOAD THE DECK BEYOND ITS CAPACITY IN ANY INSTANCE.

UNLESS INDICATED OTHERWISE ON THE DRAWINGS, CONCRETE SLABS ON METAL DECK SHALL BE PLACED AS REQUIRED TO MAINTAIN A LEVEL SURFACE, AND THE CONTRACTOR SHALL ACCOUNT FOR ADDITIONAL VOLUME OF CONCRETE DUE TO THE DEFLECTION OF THE STRUCTURE AND DECK UNDER THE WEIGHT OF THE WET CONCRETE.

PRIOR TO PLACEMENT OF CONCRETE SLABS ON METAL DECK, THE CONTRACTOR SHALL CAREFULLY REVIEW THE ELEVATIONS OF THE STRUCTURAL STEEL FRAMING, INCLUDING CAMBERED MEMBERS, FOR CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS. CONTRACTOR SHALL NOTIFY THE STRUCTURAL ENGINEER OF ANY DISCREPANCIES (SUCH AS IMPROPER CAMBER, IMPROPER STEEL ELEVATIONS, ETC.) IMMEDIATELY AND SHALL NOT BEGIN CONCRETE PLACEMENT WITHOUT PRIOR REVIEW BY THE STRUCTURAL ENGINEER.

CONCRETE EDGES EXPOSED IN FINAL CONDITION SHALL BE CHAMFERED 3/4" UNLESS NOTED OTHERWISE.

CURING PROCEDURES SHALL COMPLY WITH ACI 302.1R AND USE OF CURING MATERIALS SHALL BE APPLIED IN STRICT ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS.

PROVIDE CURING OF CONCRETE SLABS AS REQUIRED TO ACCOMMODATE FLOOR FINISHES AND FINISH MATERIALS PER THE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS. REVIEW ALL FLOOR FINISH REQUIREMENTS PRIOR TO PLACEMENT OF CONCRETE SLABS AND COORDINATE SLAB MIX, PLACEMENT AND CURING TO COMPLY WITH FINISH FLOORING MATERIAL MANUFACTURER'S REQUIREMENTS.

CONTRACTOR SHALL REVIEW ALL FLOOR FINISH MATERIAL REQUIREMENTS PRIOR TO PLACEMENT OF CONCRETE AND SHALL PROVIDE FLOOR SLAB FLATNESS AND LEVELNESS MEETING THE FINISH MATERIAL SUPPLIER'S WRITTEN REQUIREMENTS. FLATNESS AND LEVELNESS SHALL BE THE MORE STRINGENT OF THE FINISH MATERIAL REQUIREMENTS AND AS NOTED IN THE SLAB ON GRADE FLATNESS / LEVELNESS SCHEDULE OR THE SLAB ON METAL DECK FLATNESS SCHEDULE.

REINFORCED MASONRY NOTES

SEE ARCHITECTURAL PLANS FOR DIMENSIONS AND WALL SECTION REFERENCES.

MASONRY CONSTRUCTION SHALL COMPLY WITH THE ADOPTED EDITION OF ACI 530.1/ASCE 6/ TMS 602 ALONG WITH CURRENT NCMA GUIDELINES UNLESS NOTED OTHERWISE ON THE DRAWINGS. FOR HOT-WEATHER AND COLD-WEATHER CONSTRUCTION REFER TO ADDITIONAL REQUIREMENTS IN ACI 530.1/ASCE 6/ TMS 602.

MINIMUM COMPRESSIVE STRENGTH OF MASONRY, f'm = 2000 PSI.

CONCRETE MASONRY UNITS SHALL COMPLY WITH ASTM C 90 AND HAVE A MINIMUM NET-AREA COMPRESSIVE STRENGTH OF 2800 PSI. CONCRETE MASONRY UNITS SHALL HAVE A NORMAL WEIGHT DENSITY CLASSIFICATION.

MORTAR FOR UNIT MASONRY SHALL COMPLY WITH ASTM C 270 PROPORTION SPECIFICATION. PROVIDE THE FOLLOWING TYPES OF MORTAR FOR APPLICATION STATED:

FOR MASONRY BELOW GRADE OR IN CONTACT WITH EARTH:	TYPE M
FOR REINFORCED MASONRY:	TYPE S
FOR INTERIOR NON-LOAD-BEARING PARTITIONS:	TYPE N

GROUT FOR UNIT MASONRY SHALL COMPLY WITH ASTM C476. PROPORTION GROUT IN ACCORDANCE WITH ASTM C476. GROUT STRENGTH SHALL BE EQUAL TO OR EXCEED THE LISTED f'm, BUT NOT LESS THAN 2000 PSI.

ALL VERTICAL REINFORCING STEEL BARS AND BOND BEAM REINFORCING STEEL BARS IN MASONRY WALLS SHALL BE ASTM A615, GRADE 60. ALL MASONRY WALLS SHALL BE REINFORCED WITH GALVANIZED 9 GAUGE LADDER OR TRUSS STYLE HORIZONTAL JOINT REINFORCEMENT MEETING ASTM A951. PROVIDE PREFABRICATED CORNER AND INTERSECTING REINFORCING PIECES AT WALL CORNERS AND INTERSECTIONS.

GROUT SHALL BE PLACED IN A CONTINUOUS POUR IN GROUT LIFTS NOT EXCEEDING 5 FEET IN HEIGHT FOR GROUT PLACED WITHOUT CLEANOUTS.

ALL REINFORCEMENT MUST BE INSTALLED AND SECURELY ANCHORED IN PLACE PRIOR TO PLACEMENT OF GROUT.

WET STICKING (MUCKING IN) OF REINFORCEMENT IS NOT PERMITTED.

COORDINATE REQUIRED OPENINGS WITH ALL TRADES AND PROVIDE MASONRY OR STEEL LINTELS FOR ALL OPENINGS GREATER THAN 1'-0". PROVIDE 100% SOLID BEARING, A OF MINIMUM THREE COURSES UNDER BEAMS AND TWO COURSES UNDER JOISTS, UNLESS DETAILED OTHERWISE.

THE MASONRY CONSTRUCTION FOR THIS STRUCTURE AS SHOWN IS NON-SELF SUPPORTING UNTIL ALL THE STRUCTURAL ELEMENTS ARE IN PLACE AND FULLY CONNECTED AS INDICATED IN THESE DOCUMENTS AND HAVE FULLY ATTAINED THEIR REQUIRED STRENGTHS. THE CONTRACTOR SHALL PROVIDE TEMPORARY BRACING IN ACCORDANCE WITH GOVERNING STANDARDS AND JURISDICTIONAL REGULATIONS (I.E. STANDARD PRACTICE FOR BRACING MASONRY WALLS UNDER CONSTRUCTION AND OSHA). INTERNAL BRACING, IF USED, SHALL BE DESIGNED BY A LICENSED PROFESSIONAL ENGINEER IN THE STATE WHERE THE PROJECT IS LOCATED.

HOLLOW MASONRY UNITS SHALL BE LAID WITH FULL MORTAR COVERAGE ON HORIZONTAL AND VERTICAL FACE SHELLS. WEBS SHALL ALSO BE BEDDED IN ALL COURSES OF PIERS, COLUMNS, AND PILASTERS, AND IN THE STARTING COURSE ON FOOTINGS, AND WHEN ADJACENT TO CELLS OR CAVITIES TO BE REINFORCED OR FILLED WITH CONCRETE OR GROUT. SOLID UNITS SHALL BE LAID WITH FULL HEAD AND BED JOINTS.

ALL MASONRY UNITS SHALL BE PLACED IN RUNNING BOND FASHION. CORNERS SHALL HAVE A STANDARD BOND BY OVERLAPPING UNITS. SPECIAL SHAPES SHALL BE PROVIDED FOR JAMBS, COLUMNS, PILASTERS, CONTROL JOINTS, CORNERS, AND LINTELS.

HELICAL PILE NOTES

REFER TO SPECIFICATION 316613 "HELICAL PILES" FOR ADDITIONAL INFORMATION.

DESIGN
HELICAL PILES SHALL BE DESIGNED BY A QUALIFIED PROFESSIONAL ENGINEER WHO IS REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED. DESIGN SHALL INCLUDE ALL COMPONENTS OF PILE SYSTEM INCLUDING HELICALS, SHAFTS, COUPLERS, AND PILE CAP ASSEMBLIES. DESIGN SHALL MEET REQUIREMENTS OF BUILDING CODE LISTED IN "DESIGN LOADS" AND ASTM SPECIFICATIONS. CERTIFIED DESIGN CALCULATIONS FOR THE HELICAL PILES AND CONNECTIONS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER.

CAPACITY
LOADS SHOWN ON THE PLANS ARE DESIGN ALLOWABLE LOADS. A MINIMUM FACTOR OF SAFETY OF 2.0 SHOULD BE USED TO DETERMINE THE REQUIRED ULTIMATE CAPACITY OF THE HELICAL PILES WITH REGARD TO THEIR INTERACTION WITH SOIL AND BEDROCK. HELICAL PILE CAPACITY IN SOIL AND BEDROCK DEPENDS ON THE GEOMETRIC CONFIGURATION OF THE HELICAL BEARING PLATES ABOUT THE LEAD SECTION, THE SUBSURFACE CONDITIONS, AND THE TORQUE APPLIED DURING INSTALLATION. MANUFACTURER'S RECOMMENDATIONS SHOULD BE FOLLOWED REGARDING THE TORQUE AND BEARING CAPACITY RELATIONSHIP FOR THE PARTICULAR HELICAL PILE SELECTED. THE RATIO OF REQUIRED ULTIMATE HELICAL PILE CAPACITY TO THE TOTAL AREA OF THE HELICAL BLADES SHALL NOT EXCEED THE ULTIMATE SUBSURFACE MATERIAL BEARING CAPACITY PROVIDED BY THE GEOTECHNICAL ENGINEER.

MATERIALS
HELICAL PILES SHALL HAVE THE REQUIRED NUMBER OF HELICAL BLADES SO AS TO PROVIDE FOR ADEQUATE LOAD CARRYING CAPACITY. THE STRENGTH OF THE HELICAL BEARING PLATES, CONNECTIONS AND HUB, AND THE HUB ITSELF SHALL BE SUFFICIENT TO SUPPORT THE DESIGN ALLOWABLE LOADS SPECIFIED ON THE PLANS. A MINIMUM FACTOR OF SAFETY OF 1.5 SHOULD BE USED FOR MECHANICAL STRENGTH. HELICAL PILES SHALL BE PROTECTED FROM CORROSION BY HOT-DIP GALVANIZING PER ASTM A153. THE HELICAL PILE HUBS ARE REQUIRED TO RESIST BENDING MOMENTS DUE TO BUCKLING. THE HELICAL PILE HUBS AND CONNECTIONS SHALL BE IN-LINE, STRAIGHT AND RIGID AND SHALL HAVE A MAXIMUM TOLERABLE SLACK OF 1/16-INCH.

INSTALLATION
CONSTANT DOWNWARD PRESSURE SHALL BE APPLIED WHILE SCREWING HELICAL PILES INTO THE GROUND. THE PRESSURE APPLIED SHALL BE SUFFICIENT TO ENSURE THAT, DURING EACH REVOLUTION, THE HELICAL PILE PROGRESSES DOWNWARD A DISTANCE EQUAL TO THE BLADE PITCH. RATE OF HELICAL PILE ROTATION SHALL NOT EXCEED 40 REVOLUTIONS PER MINUTE. HELICAL PILES SHALL BE INSTALLED AS CLOSE TO VERTICAL AS POSSIBLE. HELICAL PILES SHALL BE ADVANCED UNTIL THE REQUIRED TORQUE IS ACHIEVED TO ACCOMMODATE THE REQUIRED ALLOWABLE AND ULTIMATE CAPACITY. IF MULTIPLE HELICES ARE USED ON A SINGLE HELICAL PILE, THE REQUIRED TORQUE SHALL BE MAINTAINED OR EXCEEDED FOR A DISTANCE OF HELICAL PILE ADVANCEMENT OF AT LEAST THE AGGREGATE TOTAL SPACING BETWEEN HELICES OR TO REFUSAL. FOR EXAMPLE, IF A HELICAL PILE IS USED WITH THREE BLADES SEPARATED BY TWO (2) FEET FROM EACH OTHER, THEN THE HELICAL PILE SHALL BE ADVANCED A TOTAL OF 4 FEET WHILE MAINTAINING OR EXCEEDING THE REQUIRED TORQUE.

CAPS
A CONNECTION SHALL BE PROVIDED BETWEEN THE HELICAL FOUNDATION AND THE STRUCTURE. THE CONNECTION SHALL BE ABLE TO SUPPORT THE DESIGN ALLOWABLE LOADS WITH A MINIMUM FACTOR OF SAFETY OF 1.5. ALL HELICAL PILE COMPONENTS INCLUDING THE HUB AND MANUFACTURED CAP OR BRACKET SHALL BE ISOLATED FROM MAKING A DIRECT ELECTRICAL CONTACT WITH ANY CONCRETE REINFORCING BARS OR OTHER NON-GALVANIZED METAL OBJECTS AS THIS MAY ALTER CORROSION RATES. ALL TOP BRACKETS/CAPS SHALL BE POSITIVELY ATTACHED TO THE HELICAL PILE.

COUPLINGS
BOLTS USED TO JOIN HELICAL PILE SECTIONS AT THE COUPLINGS SHALL BE OF THE GRADE AND SIZE SPECIFIED BY THE HELICAL PILE MANUFACTURER. ALL HELICAL PILE BOLTS SHALL BE SECURELY TIGHTENED.

MODIFICATIONS
FIELD WELDING, IF REQUIRED, SHALL BE IN ACCORDANCE WITH THE "CODE FOR WELDING IN BUILDING CONSTRUCTION" OF THE AMERICAN WELDING SOCIETY. WELDING OF GALVANIZED STEEL CAN PRODUCE TOXIC GASES AND SHOULD BE DONE IN ADEQUATE VENTILATION AND WITH ADEQUATE GAS DETECTION, BREATHING GEAR, AND OTHER SAFETY EQUIPMENT. CUTTING OF MANUFACTURED HELICAL PILE BLADES IS PROHIBITED AND SHALL NOT BE PERFORMED WITHOUT FIRST CONSULTING THE STRUCTURAL ENGINEER. TOUCH UP GALVANIZING WHERE DAMAGED DUE TO WELDING OR CUTTING.

INSPECTION
INSTALLATION OF HELICAL PILES SHALL BE OBSERVED AND INSPECTED BY A REGISTERED GEOTECHNICAL ENGINEER AS NOTED IN THE SPECIFICATIONS.

LOADING REQUIREMENTS
HELICAL PILES MINIMUM ALLOWABLE LOADS (SERVICE LEVEL)

AXIAL COMPRESSION =	25,000 LBS
AXIAL TENSION =	5,000 LBS
LATERAL =	1,000 LBS

TYPICAL ABBREVIATIONS

A.B.	= ANCHOR BOLT
ACI	= AMERICAN CONCRETE INSTITUTE
ADDTL.	= ADDITIONAL
AESS	= ARCHITECTURALLY EXPOSED STRUCTURAL STEEL
A.F.F.	= ABOVE FINISHED FLOOR
ALT.	= ALTERNATE
AISC	= AMERICAN INSTITUTE OF STEEL CONSTRUCTION
AISI	= AMERICAN IRON AND STEEL INSTITUTE
ARCH.	= ARCHITECT, ARCHITECTURAL
ASCE	= AMERICAN SOCIETY OF CIVIL ENGINEERS
ASTM	= AMERICAN SOCIETY OF TESTING MATERIALS
AWS	= AMERICAN WELDING SOCIETY
B/	= BOTTOM OF
B.F.F.	= BELOW FINISHED FLOOR
B.L.	= BRICKLEDGE
BLDG	= BUILDING
BM	= BEAM
BOT/	= BOTTOM OF
BOT.	= BOTTOM
B.P.	= BENT PLATE
BRG.	= BEARING
BSMT	= BASEMENT
CANT.	= CANTILEVER
CFS	= COLD FORMED STEEL
CIP	= CAST-IN-PLACE
C.J.	= CONTROL JOINT
C.L.	= CENTERLINE
CLR	= CLEAR
CMU	= CONCRETE MASONRY UNIT
COL.	= COLUMN
COMP.	= COMPACTED
CONC.	= CONCRETE
CONST.	= CONSTRUCTION
CONT.	= CONTINUOUS
D.B.A.	= DEFORMED BAR ANCHOR
D.E.	= DECK EDGE
DEG.	= DEGREE
DIA.	= DIAMETER
DIM.	= DIMENSION
DIST.	= DISTANCE
DWG	= DRAWING
EA.	= EACH
E.F.	= EACH FACE
EL.	= ELEVATION
ELEC.	= ELECTRICAL
ELEV.	= ELEVATION
ENG.	= ENGINEER
E.O.R.	= ENGINEER OF RECORD
E.O.S.	= EDGE OF SLAB / STEEL
EQ.	= EQUAL
E.W.	= EACH WAY
EX.	= EXISTING
EXIST.	= EXISTING
EXP.	= EXPANSION
EXT.	= EXTERIOR
F.F.	= FINISHED FLOOR
FIN.	= FINISHED
FLR	= FLOOR
FND	= FOUNDATION
F.S.	= FAR SIDE
FT	= FOOT, FEET
FTG	= FOOTING
F.V.	= FIELD VERIFY
GA.	= GAUGE, GAGE
GALV.	= GALVANIZED
G.L.	= GRID LINE
HORIZ.	= HORIZONTAL
H.S.A.	= HEADED STUD ANCHOR
HSS	= HOLLOW STRUCTURAL SECTION
I.D.	= INSIDE DIAMETER
I.F.	= INSIDE FACE
IN	= INCH, INCHES
INT.	= INTERIOR
JT	= JOINT
K	= KIPS (1000 LBS)
L	= STEEL ANGLE (e.g. L3x3x1/4)
LBS	= POUNDS
LL	= DOUBLE STEEL ANGLE
LLH	= LONG LEG HORIZONTAL
LLV	= LONG LEG VERTICAL
LTWT	= LIGHT WEIGHT
MANUF.	= MANUFACTURER
MAX.	= MAXIMUM
M.E.	= MATCH EXISTING
MECH.	= MECHANICAL
MEP	= MECHANICAL, ELECTRICAL, & PLUMBING
MEZZ.	= MEZZANINE
MISC.	= MISCELLANEOUS
MIN.	= MINIMUM
N.F.	= NEAR FACE
N.S.	= NEAR SIDE
N.T.S.	= NOT TO SCALE
NOM.	= NOMINAL
O.C.	= ON CENTER
O.D.	= OUTSIDE DIAMETER
O.F.	= OUTSIDE FACE
O/O	= OUT-TO-OUT
OPP.	= OPPOSITE HAND
PEMB	= PRE-ENGINEERED METAL BUILDING
PERP.	= PERPENDICULAR
PLF	= POUNDS PER LINEAL FOOT
PSF	= POUNDS PER SQUARE FOOT
PSI	= POUNDS PER SQUARE INCH
R	= RADIUS
RAD	= RADIUS
REINF.	= REINFORCING
REQD.	= REQUIRED
REV.	= REVISED, REVISION
RTU	= ROOF TOP UNIT
SCHED.	= SCHEDULE
S.J.	= SAW JOINT
SL	= SLOPE(S)
S.L.	= STEEL LINE
SP.	= SPACES
SPEC.	= SPECIFICATION
STD	= STANDARD
STL	= STEEL
S.S.	= STAINLESS STEEL
STRUCT.	= STRUCTURE, STRUCTURAL
SIM.	= SIMILAR
T/	= TOP OF
T&B	= TOP AND BOTTOM
TCX	= TOP CHORD EXTENSION
T.J.	= TOOLED JOINT
TOP/	= TOP OF
TYP.	= TYPICAL
U.N.O.	= UNLESS NOTED OTHERWISE
VAR.	= VARIES
VERT.	= VERTICAL
W/	= WITH
W/O	= WITHOUT
W.P.	= WORK POINT
WWF	= WELDED WIRE FABRIC

COLD FORMED STEEL FRAMING NOTES

ALL COLD-FORMED STEEL SHALL COMPLY WITH THE ADOPTED EDITION OF AISI "SPECIFICATIONS FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS" AND CURRENT AISI DESIGN GUIDELINES. SEE ARCHITECTURAL PLAN SHEETS FOR WALL DIMENSIONS.

COLD-FORMED STEEL FRAMING SHALL MEET THE FOLLOWING MATERIAL REQUIREMENTS:
MATERIALS 54 MIL THICK AND THICKER: F_y = 50 KSI
MATERIALS 43 MIL THICK AND THINNER: F_y = 33 KSI

STRUCTURAL PROPERTIES OF FRAMING MEMBERS SHALL BE CALCULATED IN ACCORDANCE WITH REQUIREMENTS OF THE ADOPTED AMERICAN IRON AND STEEL INSTITUTE (AISI) SPECIFICATIONS FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS. NOMENCLATURE FOR CALLOUTS IS BASED ON THE STEEL STUD MANUFACTURERS ASSOCIATION (SSMA) NOMENCLATURE.

THE SUPPLIER OF THE COLD-FORMED STEEL FRAMING SHALL BE RESPONSIBLE FOR THE DESIGN OF ALL COLD-FORMED STEEL MEMBERS, COMPONENTS, ASSEMBLIES, BRIDGING, BRACING, AND CONNECTIONS. ALL COLD-FORMED METAL FRAMING LOADS SHALL BE DETERMINED BY THE COLD-FORMED METAL DELEGATED DESIGN ENGINEER AS DETERMINED USING THE LOADS AND CRITERIA LISTED IN "DESIGN LOADS". THE COLD-FORMED METAL CONTRACTOR SHALL PROVIDE A COMPLETE GRAVITY AND LATERAL SYSTEM DESIGN CONFORMING TO THE REQUIREMENTS OF THE IBC AND AISI REQUIREMENTS, SIGNED AND SEALED BY A QUALIFIED PROFESSIONAL ENGINEER LICENSED IN THE STATE WHERE THE PROJECT IS LOCATED.

ALL COLD-FORMED STEEL FRAMING SIZES, GAGES AND CONNECTION DETAILS SHOWN ON THE CONSTRUCTION DOCUMENTS SHALL BE CONSIDERED THE MINIMUM ALLOWED. MINIMUM SIZE AND GAGE FOR EXTERIOR NON-LOAD BEARING STUDS SHALL BE 600S162-43 UNLESS NOTED OTHERWISE. ALL HEADER WEB MEMBERS AND JOISTS SHALL BE UN-PUNCHED MEMBERS.

THE DELEGATED DESIGN ENGINEER RESPONSIBLE FOR COLD-FORMED STEEL DESIGN SHALL SIZE COLD-FORMED STEEL FRAMING CONNECTIONS WHERE CONNECTIONS ARE NOT DETAILED. THE CONTRACTOR MAY SUBMIT ALTERNATE CONNECTION CLIPS TO THOSE SHOWN ON THE PLANS. SUBMITTAL MUST INCLUDE ALLOWABLE VERTICAL, HORIZONTAL AND UPLIFT CAPACITIES OF CLIPS AND FASTENERS.

THE COLD-FORMED STEEL FRAMING CONTRACTOR SHALL BE RESPONSIBLE FOR ALL INSTALLATION PROCEDURES, MEANS AND METHODS OF CONSTRUCTION AND NECESSARY TEMPORARY AND PERMANENT BRIDGING, BRACING, SHORING, ETC., AS REQUIRED TO MAINTAIN SAFETY OF THE COLD-FORMED STEEL FRAMING AND RELATED COMPONENTS THROUGHOUT CONSTRUCTION.

THE CONTRACTOR SHALL CONSTRUCT AND ASSURE THE PROPER PERFORMANCE OF THE COMPLETED COLD-FORMED STEEL FRAMING ASSEMBLY. STUDS SHALL BE FULLY SEATED IN TRACK TOP AND BOTTOM TO PREVENT DEFLECTION OF WALL AND ALL STUD WALLS SHALL BE BRIDGED. SEE TYPICAL DETAILS. JOISTS AND STUDS ABOVE SHALL BE INSTALLED IN-LINE WITH STUDS BELOW. FOLLOW AISI S200 FOR IN-LINE FRAMING TOLERANCES. SPLICES IN STUDS, JOISTS AND HEADERS ARE NOT PERMITTED UNLESS APPROVED IN WRITING BY THE STRUCTURAL ENGINEER.

TRACK AT TOP OF BEARING WALLS SHALL BE 68 MIL MINIMUM THICKNESS. TRACK AT BOTTOM OF BEARING WALLS TO MATCH STUD THICKNESS. WIDTH TO MATCH STUD SIZE AND FLANGE = 1 1/4" UNLESS NOTED OTHERWISE.

FABRICATE COLD FORMED STEEL FRAMING AND ACCESSORIES PLUMB, SQUARE AND TRUE TO LINE WITH CONNECTIONS SECURELY FASTENED ACCORDING TO REFERENCED AISI SPECIFICATIONS, STANDARDS AND MANUFACTURER'S WRITTEN INSTRUCTIONS. PROVIDE MEANS TO KEEP DISSIMILAR METALS FROM COMING INTO CONTACT WITH COLD FORMED STEEL MEMBERS (I.E. BRASS, COPPER, ETC.).

PROVIDE ALL CONNECTORS NECESSARY TO SUPPORT AND TRANSFER INDUCED LOADS TO THE CONNECTED STRUCTURE. PROVIDE DRIFT OR DEFLECTION CLIPS AS NECESSARY TO ACCOMMODATE CONSTRUCTION TOLERANCES, DEFLECTION OF BUILDING STRUCTURAL MEMBERS, AND CLEARANCES OF INTENDED OPENINGS. TOUCH UP ALL COLD FORMED MATERIAL AT WELDS WITH ZINC RICH PAINT.

COLD FORMED STEEL NOMENCLATURE

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REVISION

No.	Date	Revision

DRAWING CONTENTS:
STRUCTURAL NOTES

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DRAWING NO.
S-001

STRUCTURAL STEEL NOTES

UNLESS SPECIFICALLY SHOWN OTHERWISE, DESIGN, FABRICATION AND ERECTION TO BE GOVERNED BY THE ADOPTED EDITION OF:
- AISC SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS.
- AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES.
- AMERICAN WELDING SOCIETY SPECIFICATIONS (D1.1, D1.8, ETC.).
- SPECIFICATIONS FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS.

ALL METAL ITEMS MUST BE SUBMITTED FOR REVIEW PRIOR TO FABRICATION. SHOP DRAWINGS MUST SHOW ALL MATERIAL SIZES, WELDS (USE STANDARD AWS SYMBOLS), DETAILS AND ERECTION INFORMATION. SHOP DRAWINGS SHALL BE PREPARED IN ACCORDANCE WITH THE AISC CODE OF STANDARD PRACTICE FOR BUILDINGS AND BRIDGES AND SHALL INCLUDE COMPLETE ERECTION DRAWINGS, INCLUDING ERECTION DETAILS AND SECTIONS, ALONG WITH PART DRAWINGS FOR ALL STRUCTURAL STEEL.

THE STEEL FABRICATOR SHALL PARTICIPATE IN THE AISC QUALITY CERTIFICATION PROGRAM AND BE DESIGNATED AN AISC-CERTIFIED PLANT, CATEGORY BU. SHOP DRAWINGS WILL NOT BE REVIEWED UNTIL AISC CERTIFICATION DATA IS SUPPLIED BY THE FABRICATOR.

MATERIAL SPECIFICATIONS:

W-SHAPE STEEL COLUMNS AND BEAMS:	A992
CHANNELS AND ANGLES:	A36
PLATES AND BARS:	A36
HSS MEMBERS:	A500, GRADE C
PIPE MATERIAL:	A53 GRADE B
ANCHOR RODS:	F1554, (GRADE 55 KSI, SUPPLEMENT S1 U.N.O.)
THREADED RODS:	A36

WELDED HEADED STUD SHEAR CONNECTORS:
ASTM A108, GRADES 1015 THROUGH 1020, HEADED STUD-TYPE, COLD-FINISHED CARBON STEEL, AWS D1.1, TYPE B, AND WITH Fu=65 KSI. ANCHORS SHALL BE FULL-BASE WELDED USING AUTOMATICALLY TIMED WELDING EQUIPMENT AND APPROPRIATE FERRULE IN ACCORDANCE WITH APPLICABLE PROVISIONS OF AWS D1.1.

BOLTS IN STRUCTURAL STEEL JOINTS SHALL CONFORM TO ASTM F3125 AND SHALL BE 3/4" DIAMETER GRADE A325, UNLESS NOTED OTHERWISE.

GROUT SHALL BE A NON-METALLIC, SHRINKAGE RESISTANT (WHEN TESTED IN ACCORDANCE WITH THE LATEST EDITION OF ASTM C827 OR CRD-C621), PREMIXED, NON-CORROSIVE, NON-STAINING PRODUCT CONTAINING PORTLAND CEMENT, SILICA SANDS, SHRINKAGE COMPENSATING AGENTS AND FLUIDITY IMPROVING COMPOUNDS. GROUT SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH (F'C) OF 8,000 PSI IN 28 DAYS.

WELD ELECTRODES: E70 ELECTRODES (COMPLY WITH AWS REQUIREMENTS).

WELDING PERSONNEL AND PROCEDURES ARE TO BE QUALIFIED PER AWS D1.1. WELD SIZES SHOWN ON THE DRAWINGS ARE THE REQUIRED EFFECTIVE WELD SIZE. INCREASE WELD SIZES PER AWS FOR SKEWED CONNECTIONS AND CONNECTIONS WITH GAPS BETWEEN MEMBERS TO MEET THE EFFECTIVE WELD SIZE REQUIREMENT.

THE STEEL FABRICATOR SHALL DESIGN AND SUPPLY APPROPRIATE PRODUCTS FOR ALL STEEL AND METAL ITEMS NOT SPECIFICALLY DETAILED ON THE DRAWINGS.

CONNECTION DETAILS SHOWN ON THE DRAWINGS ARE INTENDED TO CONVEY THE DESIGN INTENT. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY MATERIALS, BOLTS, WELDS, PLATES, ETC., AS NECESSARY FOR A COMPLETE ASSEMBLY FOR EACH CONNECTION.

FABRICATOR SHALL BE RESPONSIBLE FOR DESIGN OF ALL CONNECTIONS NOT SPECIFICALLY DETAILED ON THE PLANS. REACTIONS PROVIDED ON DRAWINGS ARE ASD VALUES UNLESS NOTED OTHERWISE. WHERE END REACTIONS ARE NOT SHOWN ON THE PLANS, DESIGN SIMPLE BEAM CONNECTIONS FOR AT LEAST 50% OF THE ALLOWABLE UNIFORM LOAD GIVEN IN THE BEAM TABLES IN CHAPTER 3 OF THE AISC STEEL CONSTRUCTION MANUAL - ALLOWABLE STRESS DESIGN FOR THE GIVEN SPAN AND BEAM SIZE. FOR STRUCTURAL-STEEL CONNECTIONS INDICATED TO COMPLY WITH DESIGN LOADS (OTHER THAN SIMPLE SHEAR CONNECTIONS), FABRICATOR SHALL SUBMIT SUPPORTING ANALYSIS DATA SIGNED AND SEALED BY THE QUALIFIED PROFESSIONAL ENGINEER RESPONSIBLE FOR THEIR PREPARATION.

ALL HIGH STRENGTH BOLTS SHALL BE DESIGNED AS BEARING "N" TYPE SO THAT CONTINUOUS SPECIAL INSPECTION IS NOT NEEDED UNLESS INDICATED OTHERWISE ON THE DRAWINGS. ALL JOINTS NEED TO BE TIGHTENED IN A SYSTEMATIC WAY TO ENSURE THERE ARE NO GAPS BETWEEN JOINED ELEMENTS WITHIN 1" OF EACH BOLT. USE NO MORE THAN TWO BOLT DIAMETERS FOR THE PROJECT. SKIP ONE SIZE BETWEEN BOLT DIAMETERS.

SIMPLE SHEAR CONNECTIONS SHALL BE CAPABLE OF END ROTATION AS REQUIRED BY THE AISC SPECIFICATION, CHAPTER J1.2. "SIMPLE CONNECTIONS."

UNLESS NOTED OTHERWISE, BOLTED CONNECTIONS SHALL BE TIGHTENED TO THE SNUG TIGHT CONDITION.

PROVIDE BOLT HOLES FOR JOISTS BOLTED TO BEAMS AND COLUMNS AND STABILIZER PLATES AT COLUMNS OR ON BEAM CLOSEST TO COLUMN FOR JOIST BOTTOM CHORD EXTENSIONS.

ALL VERTICAL TUBE STEEL, HOLLOW STRUCTURAL STEEL, AND PIPE SECTIONS SHALL BE DETAILED TO KEEP WATER FROM ENTERING THE CLOSED SECTION, UNLESS NOTED OTHERWISE.

COORDINATE ALL ROOF TOP MECHANICAL EQUIPMENT LOCATIONS, SIZES AND LOADS WITH MECHANICAL CONTRACTOR PRIOR TO FABRICATION OF STEEL AND STEEL JOISTS. ANGLE FRAMES ARE REQUIRED UNDER ALL ROOF TOP EQUIPMENT AS SHOWN IN THE TYPICAL DETAILS. NOTIFY ENGINEER IN WRITING IF ANY EQUIPMENT SIZES OR LOCATIONS HAVE CHANGED OR IF ADDITIONAL EQUIPMENT HAS BEEN ADDED. EXHAUST FANS AND OTHER MECHANICAL EQUIPMENT THAT WEIGH LESS THAN 200 LBS MAY BE ADDED WITHOUT NOTIFYING ENGINEER.

ALL BEAM WEB COPES MUST BE MADE TO A 1/2 INCH MINIMUM RADIUS.

MEMBER SPLICES SHALL BE ALLOWED ONLY AT LOCATIONS SHOWN ON THE CONTRACT DRAWINGS, UNLESS APPROVED BY THE ENGINEER IN WRITING.

STEEL BEAMS SHALL BE CAMBERED AS INDICATED ON THE FRAMING PLANS. IF NO CAMBER IS SPECIFIED, THE FABRICATOR SHALL ENSURE THAT THE "NATURAL" CAMBER IN ALL ERECTED BEAMS OCCURS IN AN UPWARD DIRECTION.

BEFORE ERECTION PROCEEDS, AND WITH THE STEEL ERECTOR PRESENT, VERIFY ELEVATIONS OF CONCRETE AND MASONRY BEARING SURFACES AND LOCATIONS OF ALL ANCHORAGES, INCLUDING ALL ANCHOR RODS, FOR COMPLIANCE WITH REQUIREMENTS. DO NOT PROCEED WITH ERECTION UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.

FIELD DRILLING SHALL BE WITH A MAGNETIC DRILL. BURNING OF HOLES IN STRUCTURAL STEEL IS EXPLICITLY PROHIBITED UNLESS WRITTEN PERMISSION IS GRANTED BY THE STRUCTURAL ENGINEER. DO NOT FLAME-CUT HOLES OR ENLARGE HOLES BY BURNING. DO NOT ENLARGE UNFAIR HOLES IN MEMBERS BY BURNING OR BY USING DRIFT PINS. REAM HOLES THAT MUST BE ENLARGED TO ADMIT BOLTS. FIELD MODIFICATIONS TO HOLES IN STRUCTURAL STEEL ARE EXPLICITLY PROHIBITED UNLESS WRITTEN PERMISSION IS GRANTED BY THE STRUCTURAL ENGINEER.

THE COLUMNS, ANCHOR BOLTS, BASE PLATES AND FOUNDATIONS ARE DESIGNED TO RESIST A GRAVITY LOAD MOMENT OF 600 FOOT-POUNDS DURING ERECTION WHEN SHIM PACKS ARE PROVIDED AT THE EXTREME EDGES ALONG ALL FOUR SIDES OF THE BASE PLATE.

ALL STEEL SHALL BE CLEANED TO BE FREE FROM DIRT, MUD AND CORROSION AFTER ERECTION. THE STEEL ERECTOR SHALL TOUCH UP PAINT AS REQUIRED. ALL FIELD WELDING AND GAS CUT AREAS SHALL BE TOUCHED UP WITH PRIMER BY THE STEEL ERECTOR.

ALL STEEL TO BE FIELD PAINTED SHALL BE SHOP PRIMED. REFER TO PAINT SPECIFICATIONS FOR SHOP PRIMING REQUIREMENTS. ALL STEEL THAT IS TO RECEIVE FIREPROOFING, WHERE HEADED STUDS ARE TO BE WELDED, OR IS TO BE EMBEDDED IN CONCRETE OR CMU SHALL BE UNPRIMED. STEEL TO RECEIVE INTUMESCENT PAINT SHALL HAVE A SHOP PRIMER APPLIED THAT IS COMPATIBLE WITH THE INTUMESCENT PAINT SYSTEM. REFER TO ARCHITECTURAL DRAWINGS FOR AREAS WHERE FIREPROOFING OR INTUMESCENT PAINT IS REQUIRED.

STEEL TO RECEIVE HIGH PERFORMANCE COATINGS SHALL HAVE THEIR PRIMER COORDINATED WITH THE HIGH PERFORMANCE COATING SPECIFICATION. SEE ARCH. FOR ADDITIONAL INFORMATION.

MASTIC COATING FOR PROTECTION OF INDICATED ITEMS SHALL BE BITUMASTIC 50 COAL TAR MASTIC BY CARBOLINE OR EQUIVALENT SUBSTITUTE APPROVED BY THE STRUCTURAL ENGINEER. UNLESS NOTED OTHERWISE, APPLY MASTIC TO A COATING THICKNESS OF 18 MILS. PROVIDE FULL COVERAGE OVER ITEMS INDICATED TO RECEIVE COATING. APPLY MASTIC COATING TO ALL STEEL ITEMS THAT WILL BE IN PERMANENT CONTACT WITH SOIL OR FILL MATERIALS IN THE COMPLETED CONSTRUCTION AND AT LOCATIONS INDICATED ON THE DRAWINGS.

METAL DECK

ALL METAL DECK, ATTACHMENTS, ACCESSORIES, ETC. SHALL BE DESIGNED AND INSTALLED PER CURRENT STEEL DECK INSTITUTE SPECIFICATIONS AND CODE OF STANDARD PRACTICE.

ALL METAL DECK UNITS SHALL BE MADE FROM STEEL SHEET THAT CONFORMS TO ASTM A653 AND HAVING A MINIMUM DESIGN YIELD POINT OF 33 KSI FOR B DECK, 60 KSI FOR C DECK, AND 50 KSI FOR VLI DECK.

ALL DECK SHALL BE SUPPLIED AND INSTALLED TO ENSURE A 3 SPAN CONDITION UNLESS OTHERWISE NOTED. WHERE A 3 SPAN CONDITION IS NOT POSSIBLE, NOTIFY THE STRUCTURAL ENGINEER PRIOR TO FABRICATION OF DECK SO THAT EVALUATION OF THE LESSER SPAN CONDITION(S) CAN BE PERFORMED.

STEEL FLOOR DECK IS INTENDED TO BE INSTALLED IN AN UNSHORED CONDITION UNLESS NOTED OTHERWISE. DECK SUPPLIER SHALL REVIEW ALL SPAN CONDITIONS AND CONFIRM THAT THE SUPPLIED PRODUCT IS SUFFICIENT TO SAFELY SUPPORT THE WET WEIGHT OF CONCRETE AND ASSOCIATED CONSTRUCTION LIVE LOADS WITHOUT THE NEED FOR SHORING.

ROOF DECKING SHALL BE INSTALLED UP THE ROOF SLOPE WITH THE ROOF DECK SHEET AT THE HIGHER ELEVATION LAPPING ON TOP OF THE ROOF DECK SHEET AT THE LOWER ELEVATION. THE ACTUAL WIDTH OF ROOF DECK UNITS WILL VARY. THE DECK MANUFACTURER GUARANTEES A MINIMUM NET COVERAGE OF 36" PER UNIT. IN ORDER TO ENSURE STRAIGHT DECK LINES, THE ERECTOR MUST MAINTAIN 36" COVERAGE.

DECK BEARING SURFACES ARE PERMITTED TO DEVIATE FROM PARALLEL A MAXIMUM OF 1:24, BUT NOT TO EXCEED 1/16". STEEL FABRICATOR TO PROVIDE SHIMS AS NECESSARY WHEN BEARING SURFACES WOULD NOT OTHERWISE MEET THESE LIMITS.

DECK MANUFACTURER SHALL PROVIDE ALL DECK ACCESSORIES, INCLUDING CLOSURES, FILLERS, AND POUR STOPS FOR A COMPLETE INSTALLATION, WHETHER OR NOT SUCH ITEMS ARE DETAILED ON THE CONTRACT DOCUMENTS.

FASTEN ROOF DECK TO STEEL SUPPORTS AS INDICATED ON THE DRAWINGS. PERFORM WELDING IN ACCORDANCE WITH ANSI/AWS D1.3. WHERE ALTERNATE METHODS OF DECK ATTACHMENT ARE DESIRED, THE ERECTOR SHALL SUBMIT FOR REVIEW THE PROPOSED ATTACHMENT METHOD ALONG WITH ALLOWABLE DIAPHRAGM SHEAR STRENGTH TABLES FOR THE ENGINEER'S REVIEW AND APPROVAL PRIOR TO ERECTION.

WELD WASHERS SHOULD BE USED WHERE PUDDLE WELDS ARE SPECIFIED FOR DECK THINNER THAN 22 GAUGE.

METAL DECK TO BE FASTENED TO ALL PERIMETER ANGLES AND DRAG STRUTS.

NO ITEMS SHALL BE HUNG DIRECTLY FROM THE ROOF DECK UNLESS INDICATED OTHERWISE IN THE DRAWINGS.

ALL ROOF DECK OPENINGS 12" DIAMETER OR LARGER ARE TO HAVE SUPPORT ANGLES PER TYPICAL DECK OPENING DETAIL, INCLUDING OPENINGS FOR ROOF SUMP PANS.

STEEL DECK SHALL NOT BE CANTILEVERED UNLESS NOTED OTHERWISE.

PROVIDE METAL DECK WITH FINISH AS INDICATED ON THE DRAWINGS. GALVANIZED DECK THAT WILL RECEIVE A FIRE PROTECTION OR SUBSEQUENT COATINGS SHALL BE CHEMICALLY PASSIVATED TO ACHIEVE A SURFACE PREPARATION THAT IS IN ACCORDANCE WITH THE REQUIREMENTS OF THE FIREPROOFING OR COATING SUPPLIER.

GENERAL WOOD NOTES

ANY WOOD IN CONTACT WITH CONCRETE, MASONRY, OR STEEL SHALL BE PRESSURE TREATED. ANY WOOD EXPOSED TO OUTDOOR ENVIRONMENT SHALL BE PRESSURE TREATED (UNLESS NOTED OTHERWISE). FRTW SILL PLATES DO NOT NEED TO BE PRESSURE TREATED AS WELL.

FIRE-RETARDANT-TREATED WOOD (FRT / FRTW)
THE FOLLOWING VALUES ARE THE ASSUMED DESIGN VALUE ADJUSTMENT FACTORS FOR FRT LUMBER:

	SOUTHERN PINE	ALL OTHER
Fb	0.91	0.88
Ft	0.88	0.83
Fc	0.94	0.94
Fv	0.95	0.93
E	0.95	0.94
Fc-perp	0.95	0.95
CONN.	0.90	0.90

AS NOTED ON THE DRAWINGS, ALL WOOD IN EXTERIOR LOAD-BEARING WALL SHALL BE FIRE-RETARDANT-TREATED WOOD.

ALL WOOD FRAMING SIZES AND CONNECTIONS NOT SHOWN IN THE DRAWINGS SHALL MEET THE MINIMUM REQUIREMENTS OF IBC CHAPTER 23.

TRANSFER ALL POINT LOADS FROM HEADERS AND TRUSS GIRDERS THROUGH THE FLOOR FRAMING ACCORDING TO TYPICAL DETAIL, DOWN TO THE SECOND FLOOR SLAB ON METAL DECK.

DIMENSIONAL LUMBER
ALL MEMBERS SIZES GIVEN ON THE DRAWINGS ARE NOMINAL DIMENSIONS.
ALL MATERIAL SHALL BE CLEARLY MARKED WITH GRADE STAMPS.
FINGER JOINTED MEMBERS ARE NOT ACCEPTABLE FOR ANY STRUCTURAL MEMBERS.
ALL LUMBER SHALL BE KILN-DRIED.
PRESSURE TREATED LUMBER SHALL BE KILN DRIED AFTER TREATMENT.

MAXIMUM LUMBER MOISTURE CONTENT (AT TIME OF FABRICATION) = 19 PERCENT.
LUMBER SHALL BE DRIED TO A MAXIMUM MOISTURE CONTENT OF 15 PERCENT BEFORE INSTALLATION OF GYP. BOARD AND VERIFIED BY THE GENERAL CONTRACTOR

REFER TO LOAD-BEARING WALL SCHEDULE AND SHEARWALL SCHEDULE FOR STUD, BOTTOM PLATE, AND TOP PLATE MATERIAL.

JOISTS, RAFTERS, HEADERS, POSTS SHALL BE NO. 1 GRADE SOUTHERN PINE (SPIB) OR NO. 1/NO. 2 SPRUCE PINE FIR (WWPA)

HEADERS IN NON-LOAD BEARING WALLS SHALL BE 2-2x4's FOR 2x4 WALLS AND 3-2x6's FOR 2x6 WALLS WITH 1 1/2" MINIMUM BEARING FOR SPAN LENGTHS 6 FEET AND UNDER.

FOR CONSTRUCTION STABILITY PROVIDE THE FOLLOWING BLOCKING IN ALL EXTERIOR AND BEARING WALLS:
- EXTERIOR WALLS (ALL LEVELS) @ MID-HEIGHT OF WALL
- INTERIOR WALLS** LEVELS 2, 3, 4 @ 42" O.C. VERTICAL SPACING
- INTERIOR WALLS** LEVELS 5 AND 6 @ MID-HEIGHT OF WALL

**INTERIOR WALLS WITH PLYWOOD OR OSB SHEATHING DO NOT NEED BLOCKING PROVIDED THE SHEATHING IS INSTALLED AS THE BUILDING IS CONSTRUCTED.

ALL JOISTS (GREATER THAN 2 X 8) SHALL BE SUPPORTED LATERALLY AT THE ENDS AND AT EACH SUPPORT BY SOLID BLOCKING EXCEPT WHERE ENDS OF JOISTS ARE NAILED TO A HEADER, BAND OR RIM JOIST OR TO AN ADJOINING STUD. SOLID BLOCKING SHALL BE NOT LESS THAN 2" IN THICKNESS AND THE FULL DEPTH OF THE JOIST.

SHEATHING
MAXIMUM SHEATHING MOISTURE CONTENT = 15 PERCENT
SHEATHING SHALL BE PLYWOOD CONFORMING TO DOC PS 1 OR OSB CONFORMING TO DOC PS 2
SHEATHING MATERIAL SHALL BE APA RATED SHEATHING GRADE

ROOF SHEATHING
PLYWOOD SHEATHING: PS 1, EXPOSURE 1
OSB SHEATHING: PS 2, EXPOSURE 1
SPAN RATING: 40/20
THICKNESS: 19/32"
FASTENING: USE 2 1/2"x0.131" NAILS AT 6" O.C. AT SUPPORTING EDGES AND 6" O.C. FOR INTERMEDIATE FRAMING MEMBERS.

WALL SHEATHING
PLYWOOD SHEATHING: PS 1, EXPOSURE 1
OSB SHEATHING: PS 2, EXPOSURE 1
SPAN RATING: 24/0
THICKNESS: REFER TO SHEAR WALL SCHEDULE ON S-110
FASTENING: REFER TO SHEAR WALL SCHEDULE ON S-110

FLOOR SHEATHING
PLYWOOD SHEATHING: PS 1, EXPOSURE 1, TONGUE & GROOVE SHEATHING
OSB SHEATHING: PS 2, EXPOSURE 1, TONGUE & GROOVE SHEATHING
SPAN RATING: NOT LESS THAN 48/24
THICKNESS: 23/32"
FASTENING: USE 2 1/2"x0.131" NAILS AT 6" O.C. AT SUPPORTING EDGES AND 12" O.C. FOR INTERMEDIATE FRAMING MEMBERS. FLOOR SHEATHING SHALL BE GLUED TO FRAMING MEMBERS. NAILING SHALL OCCUR PRIOR TO CURING OF GLUE. CONSTRUCTION ADHESIVE/GLUE SHALL CONFORM WITH ASTM D3498 OR APA PERFORMANCE SPECIFICATION AFG-01.

SHEATHING SHALL CONFORM TO THE REQUIREMENT OF "U.S. PRODUCT STANDARD PS 1 FOR CONSTRUCTION AND INDUSTRIAL PLYWOOD", "U.S. PRODUCT STANDARD PS 2 PERFORMANCE STANDARD FOR WOOD-BASED STRUCTURAL-USE PANELS, OR "APA PRP-108 PERFORMANCE STANDARDS."

SHEATHING INSTALLATION SHALL BE IN CONFORMANCE WITH APA RECOMMENDATIONS. ALLOW 1/8" SPACING AT PANEL ENDS AND EDGES, UNLESS OTHERWISE RECOMMENDED BY THE PANEL MANUFACTURER.

ALL SHEATHING SHALL BE INSTALLED WITH LONG DIMENSION OR STRENGTH AXIS PERPENDICULAR TO SUPPORTS AND WITH THE PANEL CONTINUOUS OVER TWO OR MORE SPANS. MINIMUM BEARING AT SUPPORTED PANEL JOINTS SHALL BE 1/2". FASTENERS SHALL BE LOCATED 3/8" FROM PANEL EDGES.

LAMINATED VENEER LUMBER (LVL) MEMBERS
MAXIMUM STRUCTURAL COMPOSITE LUMBER MOISTURE CONTENT = 12 PERCENT

ALL WOOD LVL MEMBERS SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES (FOR NOMINAL 12" DEPTH):
- Fb=2650 PSI
- MODULUS OF ELASTICITY = 1,900,000 PSI
- Fv = 285 PSI

ALL STRUCTURAL COMPOSITE LUMBER SHALL BE STAMPED WITH THE MANUFACTURER'S NAME AND/OR LOGO, NAME OF INSPECTION AGENCY AND THE APPLICABLE EVALUATION REPORT NUMBERS.

WOOD TRUSSES
TRUSS MANUFACTURER SHALL BE A CURRENT MEMBER IN GOOD STANDING OF THE TRUSS PLATE INSTITUTE. THE TRUSS FABRICATOR SHALL PARTICIPATE IN A THIRD-PARTY QUALITY ASSURANCE PROGRAM THAT IS APPROVED BY A CODE APPROVED INSPECTION AGENCY OR THAT MEETS THE REQUIREMENT OF THE TRUSS PLATE INSTITUTE.

COMPLETE TRUSS SHOP DRAWINGS, INCLUDING AN ERECTION PLAN, DETAILS OF EACH MEMBER AND EACH CONNECTION, AND COMPLETE STRUCTURAL CALCULATIONS PREPARED AND CERTIFIED BY A QUALIFIED PROFESSIONAL ENGINEER LICENSED IN THE STATE WHERE THE PROJECT IS LOCATED SHALL BE SUBMITTED FOR REVIEW PRIOR TO MANUFACTURE. TRUSS MANUFACTURER MAY SUBMIT AN ALTERNATE LAYOUT ON THE SHOP DRAWINGS, SUBJECT TO THE APPROVAL OF THE ENGINEER. DESIGN AND FABRICATION CRITERIA OF ALL WOOD TRUSSES SHALL BE IN CONFORMANCE WITH THE CURRENT VERSION OF THE "TIMBER CONSTRUCTION MANUAL" BY AMERICAN INSTITUTE OF TIMBER CONSTRUCTION, "DESIGN SPECIFICATIONS FOR LIGHT METAL CONNECTION WOOD TRUSSES" BY TRUSS PLATE INSTITUTE, AND "NATIONAL DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION" BY N.F.P.A.

THE CONFIGURATION OF THE WEB MEMBERS FOR ROOF TRUSSES SHALL BE DETERMINED BY THE MANUFACTURER IN ACCORDANCE WITH ALL ARCHITECTURAL, MECHANICAL, AND STRUCTURAL CRITERIA. TRUSS MANUFACTURER SHALL DESIGN ALL TRUSSES FOR ALL GRAVITY, LATERAL, AND UPLIFT LOADS INDICATED ON THE DRAWINGS, SPECIFICATIONS, AND ADOPTED BUILDING CODES. CHORD AND WEB MEMBERS SHALL BE EITHER SOUTHERN YELLOW PINE, SPRUCE PINE FIR, OR APPROVED EQUAL.

TRUSS PLATE CONNECTIONS SHALL BE DESIGNED IN ACCORDANCE WITH THE TRUSS PLATE INSTITUTE.

SITE FABRICATED TRUSSES ARE NOT ALLOWED.

COMPLY WITH ALL RECOMMENDATIONS BY THE MANUFACTURER AND THE APPROVED SHOP DRAWINGS FOR PROPER STORAGE, HANDLING, PROTECTION, INSTALLATION, AND TEMPORARY BRACING REQUIREMENTS. TRUSSES ARE DESIGNED BY THE TRUSS MANUFACTURER FOR IN SERVICE LOADING ONLY. CONTRACTOR SHALL PROPERLY BRACE TRUSSES FOR ALL LOAD CONDITIONS THAT OCCUR DURING LIFTING AND ERECTION. ALL GUIDELINES SPECIFIED IN HIB-91 BY THE TRUSS PLATE INSTITUTE, SHALL BE FOLLOWED AS A MINIMUM STANDARD FOR HANDLING, INSTALLATION AND BRACING.

PERMANENT BRACING, INCLUDING ALL WEB BRACING, SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATION AND APPROVED SHOP DRAWINGS. CONTRACTOR SHALL KEEP TRUSSES LATERALLY BRACED DURING ERECTION UNTIL ALL DIAPHRAGMS AND PERMANENT BRACING ARE INSTALLED AND CONNECTED AS SPECIFIED ON CONTRACT DRAWINGS AND SPECIFICATIONS.

BASED ON THE REACTIONS PROVIDED BY THE TRUSS MANUFACTURER ADDITIONAL TENSION STRAPS MAY BE REQUIRED. REACTIONS WILL BE REVIEWED DURING SHOP DRAWING REVIEW AND, IF NECESSARY, ADDITIONAL STRAPS WILL BE SPECIFIED.

ALL ROOF TRUSSES SHALL HAVE 1 1/2" MINIMUM BEARING OR PROPERLY SIZED JOIST HANGERS FOR SUPPORT.

PROVIDE 2x6 BLOCKING BETWEEN TRUSSES AT ALL ROOF VALLEYS.

FASTENERS, CONNECTORS, & ACCESSORIES
NAILS SHALL BE COMMON WIRE NAILS UNLESS NOTED OTHERWISE. INSTALLATION AND MATERIAL SHALL BE PER A.I.T.C., NDS, AND APPLICABLE BUILDING CODE REQUIREMENTS.

ALL FRAMING NAILS SHALL CONFORM TO ASTM F1667, "STANDARD SPECIFICATION FOR DRIVEN FASTENERS: NAILS, SPIKES AND STAPLES" AND NER-272 "POWER DRIVEN STAPLES AND NAILS FOR USE IN ALL TYPES OF BUILDING CONSTRUCTION".

NAILS SHALL PENETRATE A MINIMUM OF 10 TIMES THE NAIL DIAMETER, UNLESS NOTED OTHERWISE, INTO THE SUPPORTING MEMBER.

NAILS SHALL BE SPACED AND LOCATED AWAY FROM EDGES AND ENDS IN A MANNER TO PREVENT SPLITTING OF THE WOOD.

NAILS FASTENING APA RATED PLYWOOD SHEATHING SHALL BE DRIVEN FLUSH TO THE FACE OF SHEATHING WITH NO COUNTER SINKING PERMITTED. RENAIL SHEATHING AS NECESSARY TO COMPLY.

ALL FASTENERS AND ACCESSORIES IN CONTACT WITH PRESERVATIVE TREATED WOOD OR FIRE TREATED WOOD SHALL HAVE CORROSION PROTECTION.

FRAMING ACCESSORIES AND STRUCTURAL CONNECTORS SHALL BE MANUFACTURED BY SIMPSON STRONG-TIE COMPANY (OR ENGINEER APPROVED EQUAL) AND THE SIZE AND TYPE SHOWN ON THE DRAWINGS AND ATTACHED PER THE MANUFACTURER'S STANDARD REQUIREMENTS UNLESS NOTED OTHERWISE.

BOLT HOLES IN WOOD SHALL BE OVERSIZED BY 1/16" MAX. LARGER THAN THE BOLT DIAMETER AND STANDARD WASHERS SHALL BE SUPPLIED AT BOTH THE BOLT HEAD AND THE NUT.

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REVISION

No.	Date	Revision

DRAWING CONTENTS:
STRUCTURAL NOTES

ISSUE DATE: 09/13/2024
PROJECT NO. 23029

DRAWING NO.
S-002

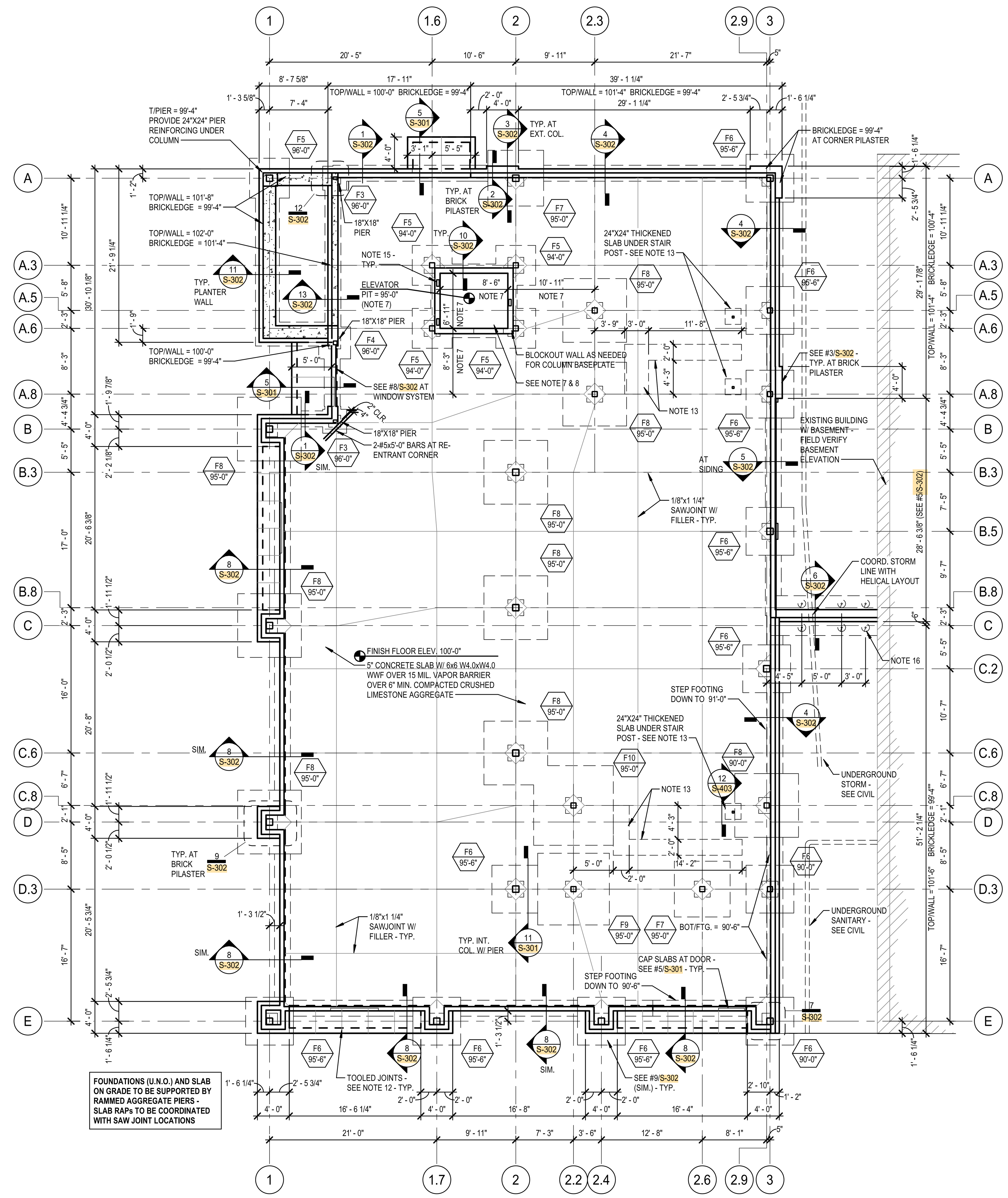
FOOTING SCHEDULE

MARK	SIZE	REINFORCING (BOTTOM U.N.O.)
F3	3'-0" X 3'-0" X 12"	4 - #5 X 2'-6" BARS EACH WAY
F4	4'-0" X 4'-0" X 12"	5 - #5 X 3'-6" BARS EACH WAY
F5	5'-0" X 5'-0" X 12"	6 - #5 X 4'-6" BARS EACH WAY
F6	6'-0" X 6'-0" X 18"	6 - #6 X 5'-6" BARS EACH WAY
F7	7'-0" X 7'-0" X 24"	9 - #6 X 6'-6" BARS EACH WAY
F8	8'-0" X 8'-0" X 24"	10 - #6 X 7'-6" BARS EACH WAY
F9	9'-0" X 9'-0" X 24"	11 - #6 X 8'-6" BARS EACH WAY
F10	10'-0" X 10'-0" X 24"	12 - #6 X 9'-6" BARS EACH WAY

F1 — MARK
96' - 0" — BOTTOM OF FOOTING ELEVATION

PLAN NOTES THIS SHEET:

1. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL DIMENSIONS AND WALL CONSTRUCTION INFORMATION.
2. REFER TO ARCHITECTURAL SECTIONS AND DETAILS FOR FOUNDATION INSULATION REQUIREMENTS.
3. NO HORIZONTAL CONSTRUCTION / COLD JOINTS, OTHER THAN THOSE SHOWN IN THE FOUNDATION DETAILS, ARE ALLOWED IN THE FOUNDATION UNLESS APPROVED IN WRITING BY THE STRUCTURAL ENGINEER.
4. COORDINATE REQUIRED PIPE SLEEVES WITH CIVIL, MECHANICAL, ELECTRICAL, PLUMBING DRAWINGS.
5. LOWER FOOTING AS REQD. AT UNDERGROUND UTILITIES PER #4/S-301 (TYP.) THAT WOULD OTHERWISE PASS THROUGH THE FOOTING.
6. FOR PIPES THAT PASS BELOW STRIP FOOTINGS AND THICKENED SLABS, PLACE PIPE IN A PIPE SLEEVE THAT IS 2 SIZES LARGER AND FILL VOIDS BETWEEN PIPE AND SLEEVE WITH A COMPRESSIBLE MATERIAL AS REQUIRED BY THE PLUMBING CODE. SEE CIVIL AND PLUMBING DRAWINGS.
7. VERIFY ELEVATOR PIT SIZE AND LOCATION WITH ARCHITECT AND ELEVATOR MANUFACTURER PRIOR TO PLACEMENT OF CONCRETE.
8. COORDINATE SUMP PIT REQUIREMENTS WITH ELEVATOR SUPPLIER AND PLUMBING DRAWINGS. SEE #13/S-301 FOR SUMP PIT DETAIL.
9. SEE S-301 FOR TYPICAL CONSTRUCTION AND CONTROL JOINTS DETAILS IN SLABS ON GRADE.
10. TOP OF ALL CONCRETE PIERS = 99'-4" UNLESS NOTED OTHERWISE.
11. ALL PIERS ARE 24"X24" UNLESS NOTED OTHERWISE. SEE #12/S-301 FOR TYPICAL PIER REINFORCING.
12. VERIFY ALL STOOP LOCATIONS, DIMENSIONS, AND JOINT PATTERNS WITH CIVIL AND ARCH. LAYOUT PRIOR TO CONCRETE PLACEMENT.
13. PROVIDE 12" THICKENED SLAB AT STAIR STRINGER AND POST ATTACHMENT LOCATIONS.
14. COORDINATE CONCRETE FLOOR SLAB FINISH WITH ARCHITECTURAL DRAWINGS.
15. SEE #13/S-402 FOR ELEVATOR POST BASE DETAIL.
16. TOP HELIX TO BE BELOW THE BASEMENT ELEVATION OF THE EXISTING BUILDING. TYPICAL ALL HELICAL PIERS.



FOUNDATION PLAN

1/8" = 1'-0"

NORTH

MKM
architecture + design

119 West Wayne Street
Fort Wayne, Indiana 46802
p 260.422.0783
www.MKMdesign.com

Certification:

DANIEL J. SCHENKEL REGISTERED No. 19700114 STATE OF INDIANA PROFESSIONAL ENGINEER

09.13.2024
BID SET

Consultant Logo:

ENGINEERING RESOURCES, INC.

4175 New Vision Drive, Fort Wayne, IN 46845
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Key Plan:

THE LANDING 3.0

NEW CONSTRUCTION
555 S HARRISON ST.
Fort Wayne, Indiana 46802

REVISION

No.	Date	Revision

DRAWING CONTENTS:
FOUNDATION PLAN

ISSUE DATE: 09/13/2024
PROJECT NO. 23029

DRAWING NO.
S-101

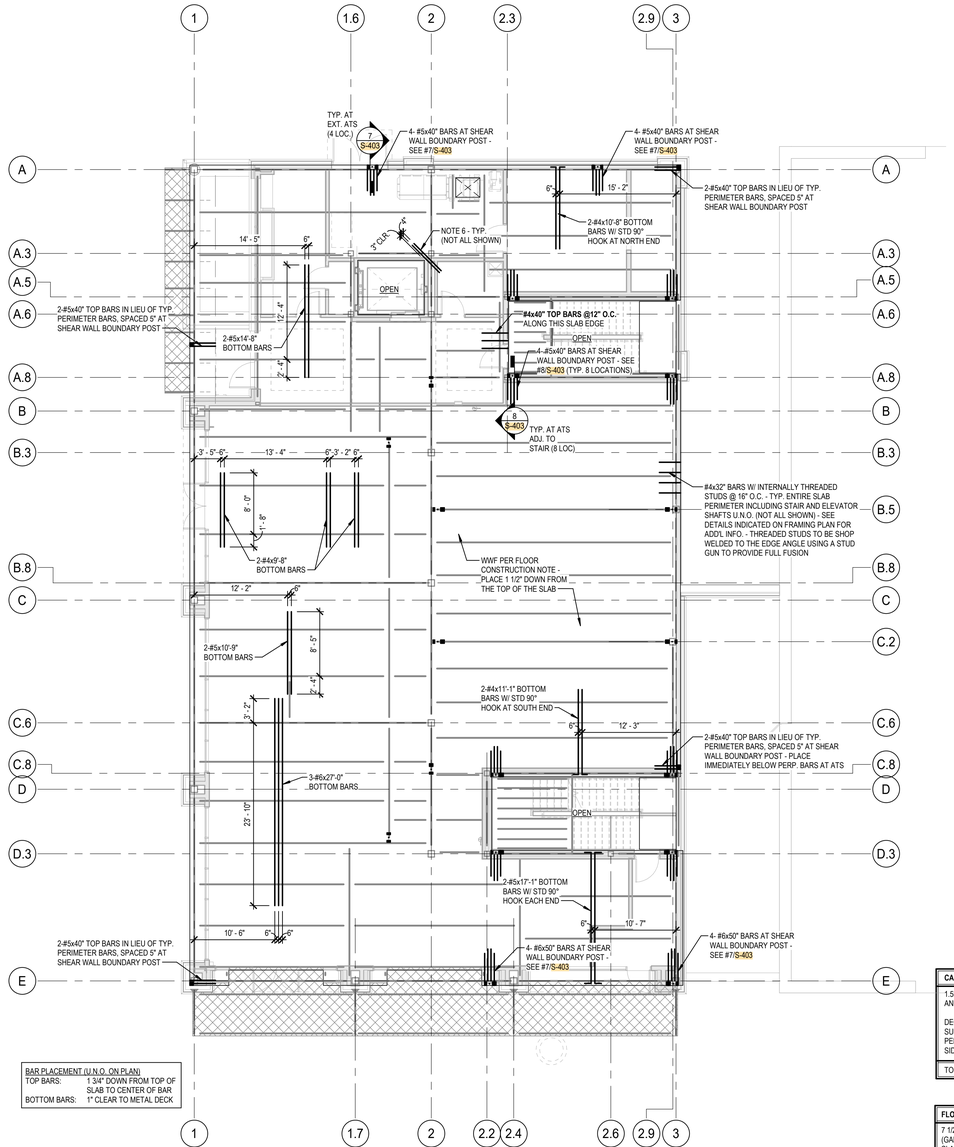
PLAN NOTES THIS SHEET:

1. COORDINATE FLOOR OPENING SIZES AND LOCATIONS WITH MECH. AND ARCH. DRAWINGS. SEE #6/S-401.
2. PROVIDE ANGLE FRAMES PER #5/S-401 (SIM.) @ ALL ROOF DRAINS. COORDINATE ROOF DRAIN LOCATIONS WITH ARCH. DRAWINGS.
3. ▶ INDICATES MOMENT CONNECTION. SEE S-404 FOR CONNECTION DETAILS.
4. ALL JOINTS IN PERIMETER EDGE ANGLES AND BENT PLATES SHALL BE FIELD WELDED ALL AROUND. IN LIEU OF BUTT WELDING JOINTS, PROVIDE 1/4"X2"X2" BENT PLATES BY 12" LONG TO JOIN ADJACENT MEMBERS, WELDING ALL AROUND WITH 3/16" FILLET WELD.
5. AT COLUMNS, PROVIDE HSS OUTRIGGERS AND/OR ANGLES AS NEEDED TO SUPPORT DECK AND EDGE ANGLES. PROVIDE CLOSURES AS REQUIRED TO POUR CONCRETE FLOOR SLABS AROUND THE COLUMNS.
6. PROVIDE (2) #5X5'-0" TOP BARS AT ALL RE-ENTRANT CORNERS.
7. ALL HSS MEMBERS THAT ARE IN THE STUD PLANE SHALL BE FILLED WITH SPRAY FOAM INSULATION. SEE ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION. **ALL WELDING OF HSS MEMBERS SHALL BE COMPLETED PRIOR TO FILLING WITH INSULATION**. PROVIDE 5/8" DIA. HOLES @ 48" O.C.:
   A. HOLES IN VERTICAL HSS MEMBERS SHALL BE IN THE LONG SIDES ONLY, ALTERNATING SIDES.
   B. HOLES IN HORIZONTAL HSS MEMBERS SHALL BE IN THE TOP ONLY.
8. HSS10X4X3/8 POSTS BELOW 2ND FLOOR AND HSS8X4X1/4 POSTS ABOVE 2ND FLOOR FOR ELEVATOR RAIL SUPPORT. COORDINATE LOCATION AND RAIL ATTACHMENT WITH ELEVATOR MANUFACTURER. SEE #13/S-402 FOR POST BASE DETAIL.
9. ● INDICATES WEB OPENING IN STEEL BEAM. PROVIDE 4" DIAMETER OPENING AT LOCATIONS INDICATED. BOTTOM OF OPENING AT 112'-5". OPENINGS MUST BE SHOP CUT.
10. WOOD STAIR FRAMING: (1) STRINGER EACH SIDE AND (2) STRINGERS IN THE CENTER FOR A TOTAL OF (4) STRINGERS PER RUN OF STAIR. STRINGERS TO BE CUT FROM 1 3/4"X16" LVLs BELOW THE SECOND FLOOR AND 1 3/4"X11 7/8" LVLs ABOVE THE 2ND FLOOR. SEE ARCH FOR ADDITIONAL INFORMATION.

STEEL LINTEL SCHEDULE			
MARK	QUANTITY & SIZE	NOMINAL BEARING (EACH SIDE)	DETAIL REFERENCE
SL-1	L5X5X5/16 (GALV.)	4"	NONE
SL-2	L7X4X3/8 LLV (GALV.)	4"	NONE

NOTES:

1. FIT LINTEL SUCH THAT THE TIP OF TOE IS 1/2" BACK FROM OUTSIDE FACE OF BRICK. LOCATE BRICK TIES TO BACKUP AT FIRST BED JOINT ABOVE ANGLE'S VERTICAL LEG.
2. PROVIDE SL-1 LOOSE LINTEL AT ALL MECHANICAL OPENINGS LESS THAN 24" WIDE (NOT SHOWN ON PLAN).



BAR PLACEMENT (U.N.O. ON PLAN)
TOP BARS: 1 3/4" DOWN FROM TOP OF SLAB TO CENTER OF BAR
BOTTOM BARS: 1" CLEAR TO METAL DECK

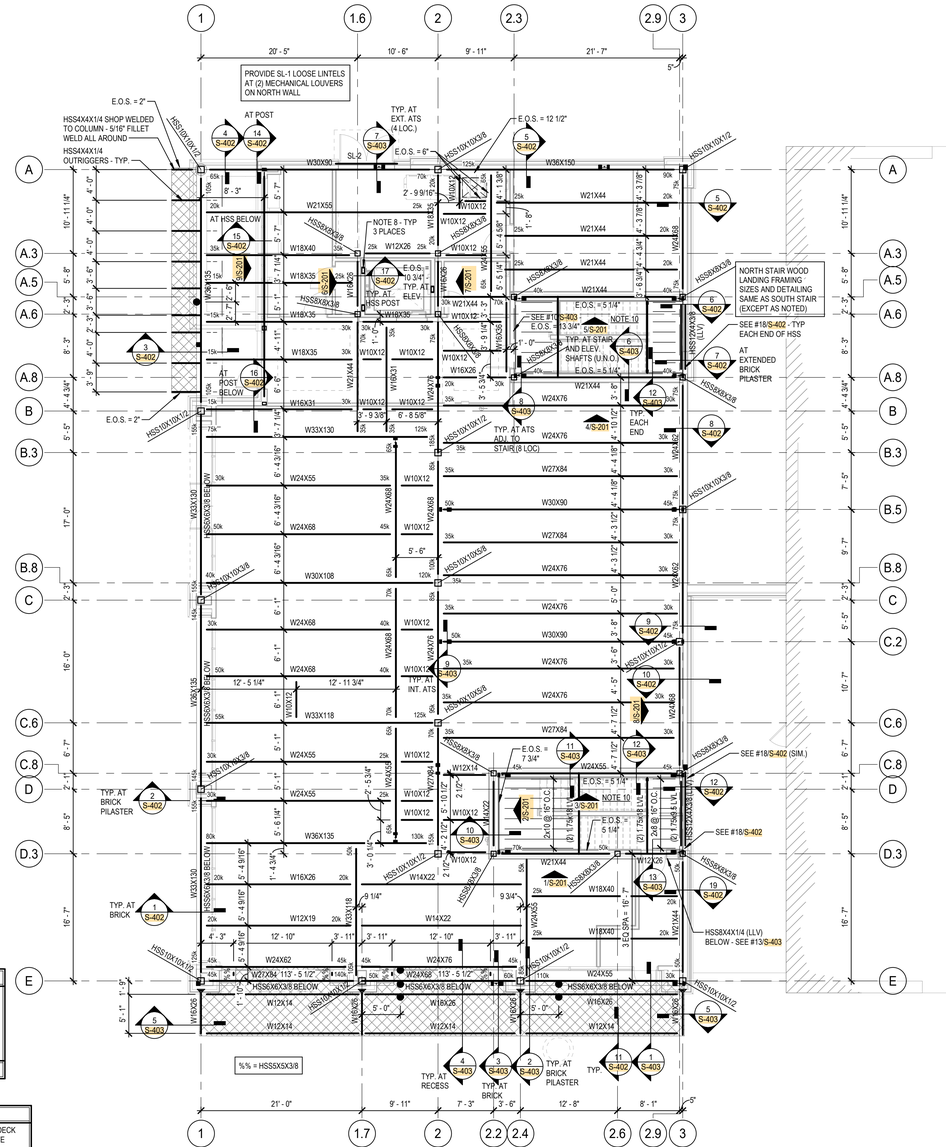
SECOND FLOOR - SLAB REINFORCING PLAN

1/8" = 1'-0"

NORTH

CANOPY ROOF CONSTRUCTION (CROSS HATCHED)
1.5B 22 GA. GALV. (G60) DECK OVER STEEL BEAMS AND STEEL JOISTS. DECK FASTENER: 5/8" DIA. PUDDLE WELDS SUPPORT PATTERN: 36/4 PERIMETER SUPPORT SPACING: 12" O.C. SIDELAP FASTENER: (1) #10 TEK SCREWS PER SPAN
TOP OF BEAM = 113'-5 1/2" (U.N.O)

FLOOR SLAB CONSTRUCTION
7 1/2" TOTAL THICKNESS CONSISTING OF 2VLI 18 GA. DECK (GALV. G60) WELDED TO STEEL BEAMS AND CONCRETE SLAB WITH 6x6 W4.0xW4.0 WWF DECK FASTENER: 5/8" DIA. PUDDLE WELDS SUPPORT PATTERN: 36/4 PERIMETER SUPPORT SPACING: 12" O.C. SIDELAP FASTENER: BUTTON PUNCH SIDELAP CONNECTIONS AT 36" O.C.
FINISHED FLOOR = 114'-6" TOP OF BEAM = 113'-10 1/2" (U.N.O.)



FRAMING PLAN - SECOND FLOOR

1/8" = 1'-0"

NORTH

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REVISION		
No.	Date	Revision

DRAWING CONTENTS:
FRAMING PLAN - SECOND FLOOR

ISSUE DATE: 09/13/2024
PROJECT NO. 23029

DRAWING NO.
S-102

CONNECTION LEGEND

MARK	CONNECTION (NOTE 1)
CN-1	SIMPSON 'LUS' FACE MOUNT HANGER
CN-2	SIMPSON 'JBA' TOP FLANGE HANGER
CN-3	SIMPSON 'H2.5A' OR 'LSTA9' (AS APPLICABLE) EACH SIDE AND EACH END
CN-4	SIMPSON 'HUS210-2TF'
CN-5	SIMPSON 'DGHT3.62/9.25'[3,4]
CN-6	SIMPSON 'DGT'[4]

NOTES:
1. FASTEN ALL CONNECTORS PER MANUFACTURER'S REQUIREMENTS. FOLLOW MANUFACTURER'S INSTALLATION PROCEDURES.
2. WHERE HANGER SIZE IS NOT SHOWN, PROVIDE HANGER MODEL INDICATED OF APPROPRIATE SIZE FOR THE MEMBER BEING CONNECTED.
3. PROVIDE 1/2" PLYWOOD SPACER AT MEMBER END FOR APPROPRIATE FIT.
4. PROVIDE CONNECTOR WITH ONE FLANGE CONCEALED AS NECESSARY AT END OF WALLS OR OTHER OBSTRUCTIONS SUCH AS ATS RODS.

HEADER SCHEDULE

MARK	QUANTITY & SIZE	LEVEL(S)	BEARING STUDS REQUIRED (EACH SIDE)	ADDITIONAL FULL HEIGHT STUDS RED'Q (EACH SIDE)
H-1	3-2x6 W/ (2) 1/2" SPACERS	3RD - 6TH	1	1
		2ND	1	2
H-1E	3-2x6 W/ (2) 1/2" SPACERS	ALL	1	2
H-2	3-2x8 W/ (2) 1/2" SPACERS	3RD - 6TH	1	1
		2ND	1	2
H-2E	3-2x8 W/ (2) 1/2" SPACERS	ALL	1	2
H-3	3-2x10 W/ (2) 1/2" SPACERS	4TH - 6TH	1	1
		2ND - 3RD	1	2
H-3E	3-2x10 W/ (2) 1/2" SPACERS	6TH	1	2
		2ND - 5TH	2	2
H-4	3-2x12	ALL	SEE PLAN	
H-4E	3-2x12 W/ (2) 1/2" SPACERS	3RD - 6TH	2	2
		2ND	2	3
H-5E	4-2x6 (2 EACH FACE) W/ 2x10 (FLAT) ON BOTTOM	ALL	1	1
H-6[3]	4-2x8 (2 EACH FACE) W/ 2x12 (FLAT) ON BOTTOM	6TH	1	2
H-7	3-1.75x9.5 LVL	2ND	3	1
H-8	2-1.75x9.5 LVL	ALL	SEE #20/S-502	
H-9	2-1.75x14 LVL	ALL	SEE #20/S-502	
H-10	2-1.75x16 LVL	ALL	SEE #20/S-502	
H-11	2-2x10	ALL	2	NA

NOTES:
1. SEE #4/S-501 FOR TYPICAL HEADER CONSTRUCTION, UNLESS AN ALTERNATE POST AND/OR CONNECTION DETAIL IS SPECIFICALLY INDICATED ON PLAN.
2. FOR HEADERS BEARING ON TOP OF A WALL, TOTAL NUMBER OF STUDS TO EQUAL OR EXCEED THE BEARING STUDS REQUIRED PLUS THE ADDITIONAL FULL HEIGHT STUDS SHOWN IN THE SCHEDULE. HEADER BEARING LENGTH (IN INCHES) SHALL BE A MINIMUM OF THE QUANTITY OF BEARING STUDS SHOWN IN THE SCHEDULE MULTIPLIED BY 1.5.
3. HEADER HAS BEEN DESIGNED TO SPAN THE FULL WIDTH OF THE ELEVATOR SHAFT FOR ELEVATOR CAB INSTALLATION ABOVE THE 6TH FLOOR.
4. ALL HEADERS WITH AN 'E' ARE IN EXTERIOR WALLS AND ALL WOOD IN EXTERIOR WALLS IS TO BE FIRE RETARDANT TREATED WOOD. SEE GENERAL WOOD NOTES ON S-002 FOR MINIMUM REDUCTIONS VALUES ASSUMED ASSOCIATED WITH THE TREATMENT OF THE FRT WOOD AND THE STRUCTURAL DESIGN.

LOAD-BEARING WALL SCHEDULE

MARK	LEVEL(S)	STUDS			SILL & TOP PLATES MATERIAL	NOTES
		SIZE	MATERIAL	SPACING		
LBW-1	4TH - 6TH	2X6	SPF NO. 1/NO. 2	16" O.C.	SPF NO. 1/NO. 2	FRT [1]
	2ND - 3RD	2X6	SPF NO. 1/NO. 2	16" O.C.	SO. PINE NO. 1	
LBW-2	6TH	2X6	SPF NO. 1/NO. 2	16" O.C.	SPF NO. 1/NO. 2	FRT [1]
	2ND - 5TH	2X6	SPF NO. 1/NO. 2	16" O.C.	SO. PINE NO. 1	
LBW-3	6TH	2X6	SPF NO. 1/NO. 2	16" O.C.	SPF NO. 1/NO. 2	FRT [1]
	4TH - 5TH	2X6	SPF NO. 1/NO. 2	16" O.C.	SO. PINE NO. 1	
	2ND - 3RD	2X6	SPF NO. 1/NO. 2	(2) @ 16" O.C.	SO. PINE NO. 1	
LBW-4	6TH	2X6	SPF NO. 1/NO. 2	16" O.C.	SPF NO. 1/NO. 2	FRT [1]
	2ND - 5TH	2X10	SPF NO. 1/NO. 2	16" O.C.	SPF NO. 1/NO. 2	
LBW-5[2]	2ND - 6TH	2X6	SPF NO. 1/NO. 2	16" O.C.	SPF NO. 1/NO. 2	
LBW-6[2]	3RD - 6TH	2X6	SPF NO. 1/NO. 2	16" O.C.	SPF NO. 1/NO. 2	
	2ND	2X6	SPF NO. 1/NO. 2	16" O.C.	SO. PINE NO. 1	
LBW-7[2]	4TH - 6TH	2X6	SPF NO. 1/NO. 2	16" O.C.	SPF NO. 1/NO. 2	
	3RD	2X6	SPF NO. 1/NO. 2	16" O.C.	SO. PINE NO. 1	
	2ND	2X6	SPF NO. 1/NO. 2	(2) @ 16" O.C.	SO. PINE NO. 1	
LBW-8	6TH	2X12	SPF NO. 1/NO. 2	16" O.C.	SPF NO. 1/NO. 2	
	2ND - 5TH	2X6	SPF NO. 1/NO. 2	16" O.C.	SPF NO. 1/NO. 2	

NOTES:
1. ALL WOOD IN EXTERIOR WALLS TO BE FIRE RETARDANT TREATED WOOD. SEE GENERAL WOOD NOTES ON S-002 FOR MINIMUM REDUCTIONS VALUES ASSUMED ASSOCIATED WITH THE TREATMENT OF THE FRT WOOD AND THE STRUCTURAL DESIGN.
2. SOME WALLS AT 6TH LEVEL ARE NOT LOAD BEARING WALLS (REFER TO PLAN ON S-107).
3. PRIOR TO FASTENING BOTTOM SILL PLATES TO THE SECOND FLOOR CONCRETE SLAB ON METAL DECK, THE REINFORCING SHALL BE LOCATED VIA GPR. DO NOT CUT REINFORCING BARS WHEN INSTALLING FASTENERS.
4. FOR CONSTRUCTION STABILITY PROVIDE THE FOLLOWING BLOCKING IN ALL EXTERIOR AND BEARING WALLS:
   - EXTERIOR WALLS (ALL LEVELS) @ MID-HEIGHT OF WALL
   - INTERIOR WALLS** LEVELS 2, 3, 4 @ 42" O.C. VERTICAL SPACING
   - INTERIOR WALLS** LEVELS 5 AND 6 @ MID-HEIGHT OF WALL

   **INTERIOR WALLS WITH PLYWOOD OR OSB SHEATHING DO NOT NEED BLOCKING PROVIDED THE SHEATHING IS INSTALLED AS THE BUILDING IS CONSTRUCTED.
5. — — — = INTERIOR LOAD BEARING WALL

FLOOR TRUSS DESIGN NOTES:
1. SEE S-001 AND S-002 FOR DESIGN PARAMETERS AND GENERAL NOTES.
2. TRUSS MANUFACTURER SHALL LIMIT TOTAL DEFLECTIONS TO L/360.
3. GIRDER TRUSSES: DESIGN FOR REACTIONS OF ALL SUPPORTED TRUSSES.
4. ONLY CERTIFIED TRUSS SHOP DRAWINGS WILL BE REVIEWED.
5. MAXIMUM TRUSS SPACING = 16" O.C. SEE FLOOR PLANS FOR SPECIFIC LAYOUT OF TRUSSES TO MISS MEP ITEMS.

FLOOR TRUSS PROFILE: 22" DEEP FLOOR TRUSSES (U.N.O.)

LOADING:
- DEAD:
  - TOP CHORD: 22 PSF
  - BOTTOM CHORD: 13 PSF
- LIVE: 40 PSF + 15 PSF PARTITION

REQUIRED TRUSS BRIDGING:
2X4 X-BRIDGING AT:
- SPANS GREATER THAN 12'-0" AND LESS THAN 17'-11" = MIDPOINT
- SPANS GREATER THAN 18'-0" = 1/3 POINTS

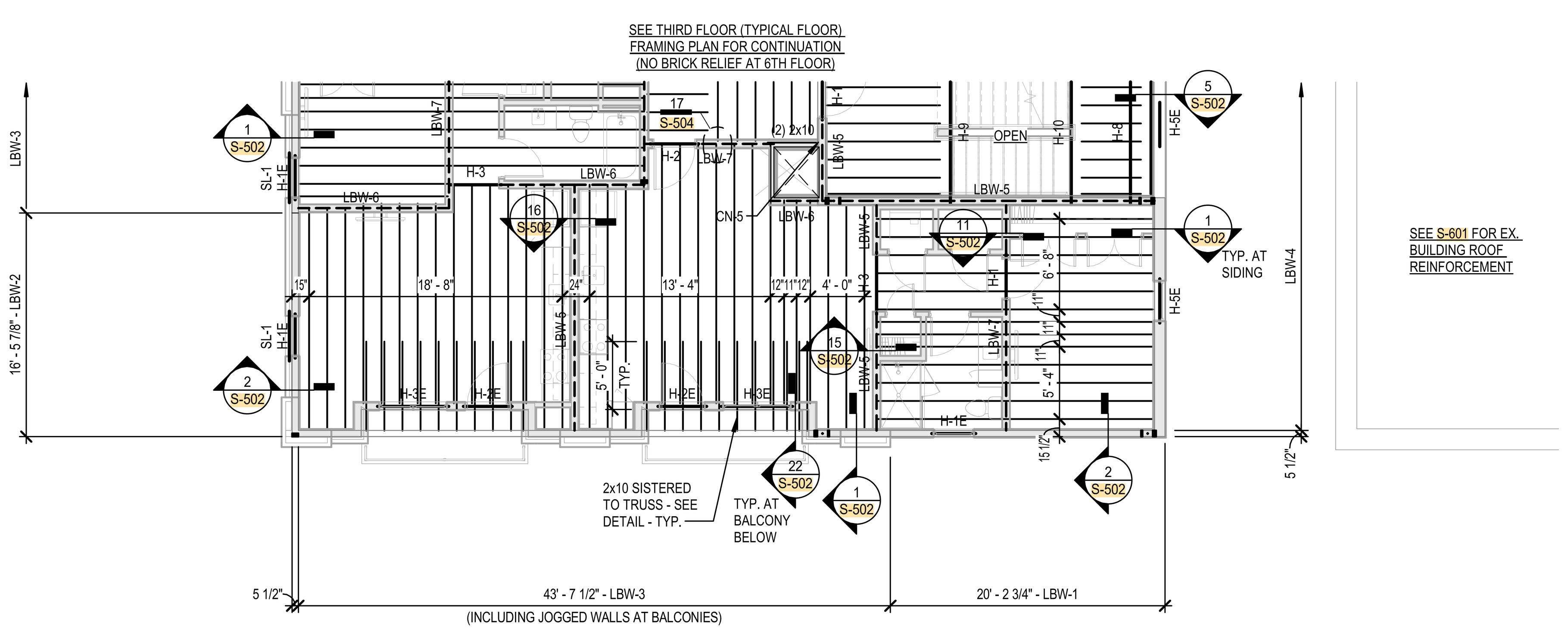
UNLESS NOTED OTHERWISE BY TRUSS MANUFACTURER

STEEL LINTEL SCHEDULE

MARK	QUANTITY & SIZE	NOMINAL BEARING (EACH SIDE)	DETAIL REFERENCE
SL-1	L5X5X5/16 (GALV.)	4"	NONE
SL-2	L7X4X3/8 LLV (GALV.)	4"	NONE

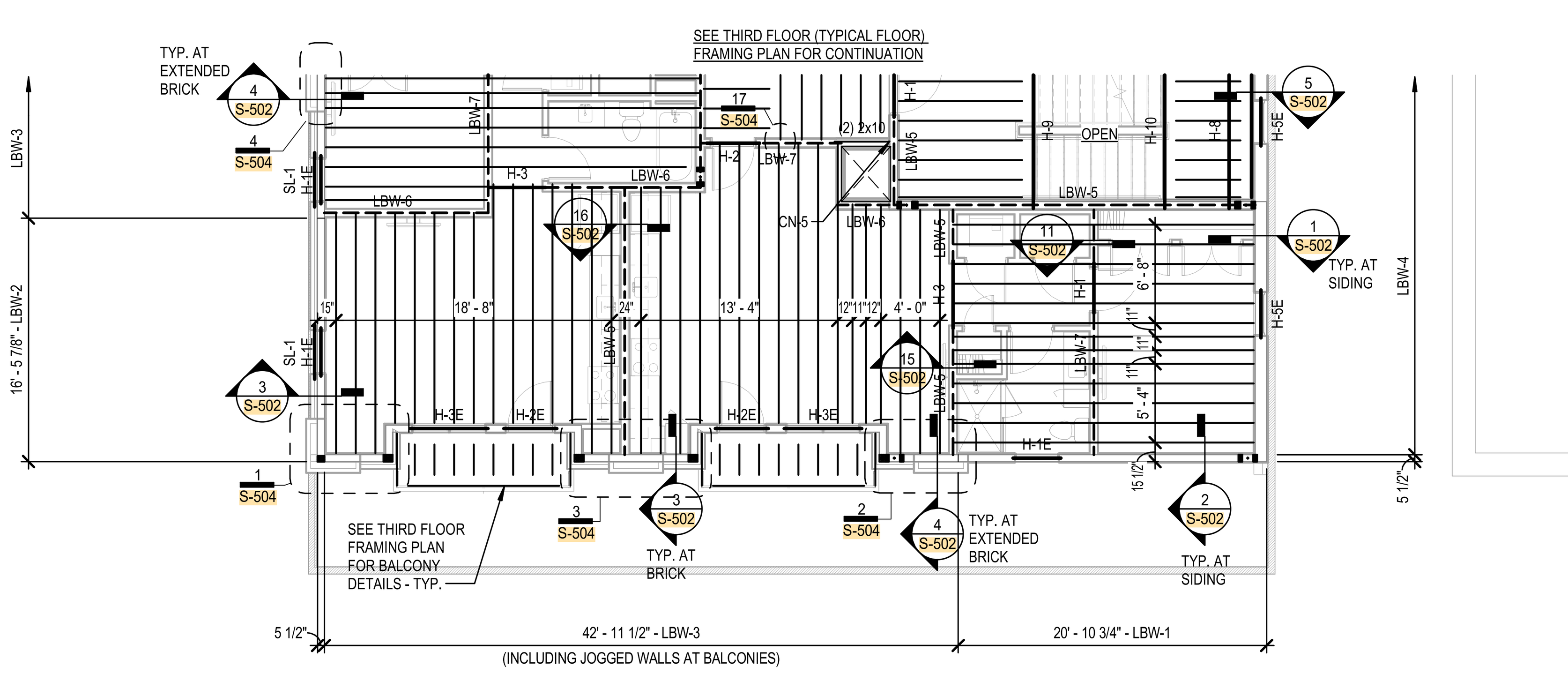
NOTES:
1. FIT LINTEL SUCH THAT THE TIP OF TOE IS 1/2" BACK FROM OUTSIDE FACE OF BRICK, LOCATE BRICK TIES TO BACKUP AT FIRST BED JOINT ABOVE ANGLE'S VERTICAL LEG.
2. PROVIDE SL-1 LOOSE LINTEL AT ALL MECHANICAL OPENINGS LESS THAN 24" WIDE (NOT SHOWN ON PLAN).

PLAN NOTES THIS SHEET:
1. SEE S-002 FOR GENERAL WOOD NOTES, INCLUDING MATERIAL SPECIFICATIONS AND NAILING REQUIREMENTS, UNLESS NOTED OTHERWISE ON THIS SHEET.
2. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL DIMENSIONS AND WALL CONSTRUCTION INFORMATION.
3. ALL STUD WALLS SHALL HAVE FULL HEIGHT STUDS. SPLICING STUDS IS NOT ACCEPTABLE.
4. AT EXTERIOR WALLS, DIMENSIONS ARE TO OUTSIDE FACE OF STUD.
5. MECHANICAL, PLUMBING, AND ELECTRICAL CONTRACTORS SHALL DESIGN THEIR SYSTEMS TO ACCOMMODATE 3/8" VERTICAL SHRINKAGE OF THE STRUCTURE PER FLOOR.
6. HSS8X4X1/4 FOR ELEVATOR RAIL LATERAL SUPPORT. COORDINATE ELEVATIONS AND RAIL ATTACHMENT WITH ELEVATOR MANUFACTURER. SEE #14/S-502 FOR CONNECTION TO FLOOR FRAMING.
7. ALL WOOD IN EXTERIOR WALLS TO BE FIRE RETARDANT TREATED WOOD. SEE GENERAL WOOD NOTES ON S-002 FOR MINIMUM REDUCTIONS VALUES ASSUMED ASSOCIATED WITH THE TREATMENT OF THE FRT WOOD AND THE STRUCTURAL DESIGN.
8. PROVIDE 2x4 BUILT UP POST FOR HEADER BEARING. (8) STUDS AT 2ND, (7) STUDS AT 3RD, (5) STUDS @ 4TH, (3) STUDS AT 5TH & 6TH. HEADER TO HAVE 3 1/2" (MIN.) BEARING.
9. PROVIDE HEADER AS SHOWN AT ALL LEVELS. INFILL WITH 2x6 STUD FRAMING AS REQUIRED AT LEVELS WITH NO DOOR.
10. TRUSS SUPPLIER TO PROVIDE OPENING IN TRUSSES TO ALLOW DUCT TO PASS THROUGH TRUSSES. COORD. W/ MECH. DRAWINGS AND MECH. CONTRACTOR.
11. WOOD STAIR FRAMING: (1) STRINGER EACH SIDE AND (2) STRINGERS IN THE CENTER FOR A TOTAL OF (4) STRINGERS PER RUN OF STAIR. STRINGERS TO BE CUT FROM 1 3/4"X11 7/8" LVLs ABOVE THE 2ND FLOOR. SEE ARCH FOR ADDITIONAL INFORMATION.



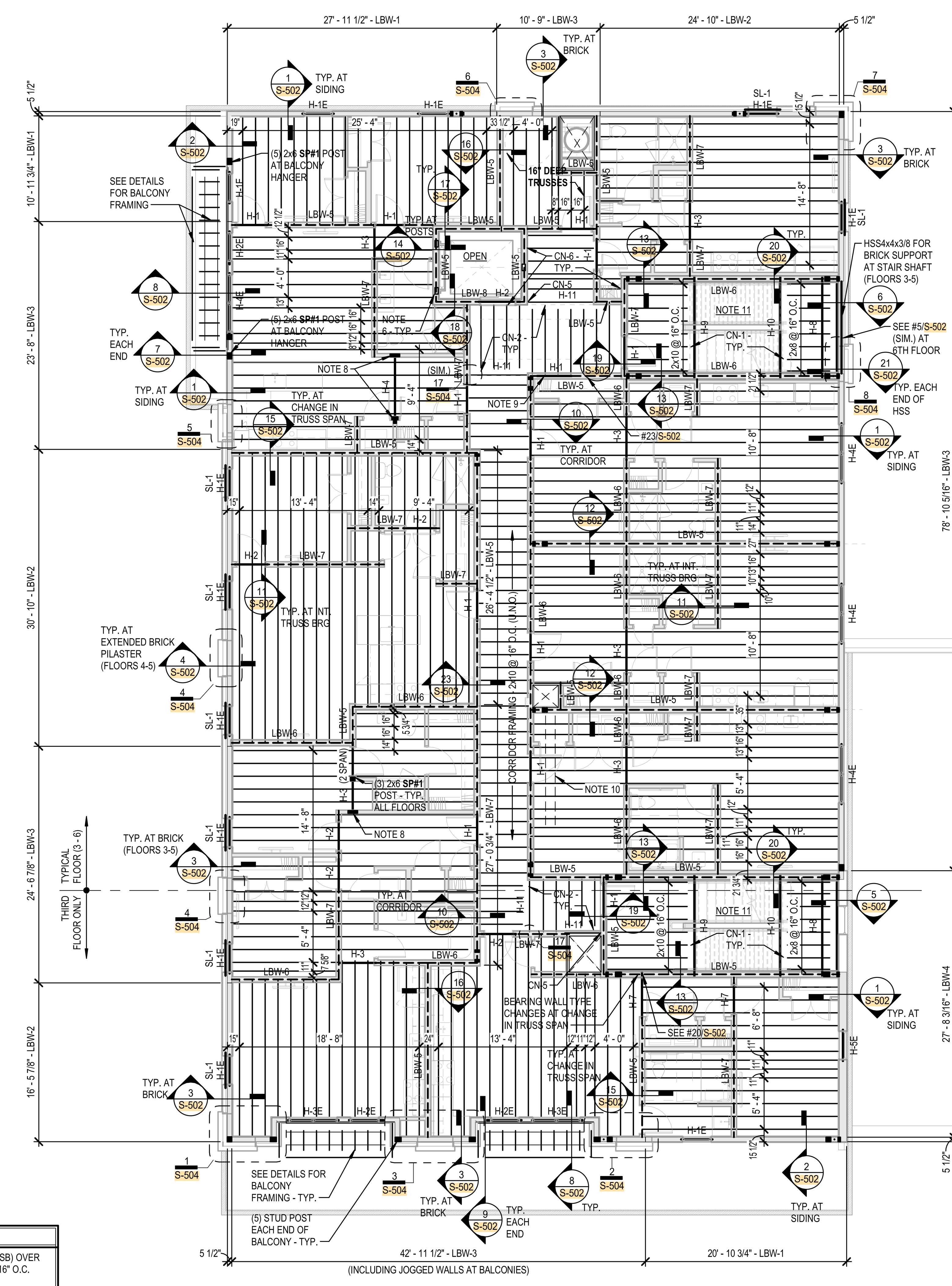
PARTIAL FRAMING PLAN - SIXTH FLOOR

1/8" = 1'-0"



PARTIAL FRAMING PLAN - FOURTH & FIFTH FLOORS

1/8" = 1'-0"



FRAMING PLAN - THIRD FLOOR (TYPICAL FLOOR)

1/8" = 1'-0"

FLOOR SLAB CONSTRUCTION
1" GYPCRETE OVER 3/4" T&G PLYWOOD (OR OSB) OVER 22" DEEP WOOD FLOOR TRUSSES (U.N.O.) AT 16" O.C. MAX (U.N.O.) NAILING - SEE WOOD NOTES ON S-002 FOR NAILING REQUIREMENTS
FINISHED FLOOR ELEVATIONS: THIRD FLOOR = 125'-6" FOURTH FLOOR = 136'-6" FIFTH FLOOR = 147'-6" SIXTH FLOOR = 158'-6"

PRIOR TO THE START OF WOOD FRAMING/CONSTRUCTION A PRE-CONSTRUCTION MEETING IS TO BE HELD WITH A REPRESENTATIVE FROM EACH OF THE FOLLOWING IN ATTENDANCE (AT A MINIMUM):
- MODELGROUP
- ENGINEERING RESOURCES, INC.
- MKM ARCHITECTURE
- FRAMING SUBCONTRACTOR
- TESTING AGENCY

MKM architecture + design
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DRAWING CONTENTS:
FRAMING PLANS - THIRD THRU SIXTH FLOORS

ISSUE DATE:	PROJECT NO.
09/13/2024	23029

DRAWING NO.
S-103

CONNECTION LEGEND

MARK	CONNECTION (NOTE 1)
CN-1	SIMPSON 'LUS' FACE MOUNT HANGER
CN-2	SIMPSON 'JBA' TOP FLANGE HANGER
CN-3	SIMPSON 'H2.5A' OR 'LSTA9' (AS APPLICABLE) EACH SIDE AND EACH END
CN-4	SIMPSON 'HUS210-2TF'
CN-5	SIMPSON 'DGHT3.62/9.25'[2,4]
CN-6	SIMPSON 'DGT'[4]

NOTES:
1. FASTEN ALL CONNECTORS PER MANUFACTURER'S REQUIREMENTS. FOLLOW MANUFACTURER'S INSTALLATION PROCEDURES.
2. WHERE HANGER SIZE IS NOT SHOWN, PROVIDE HANGER MODEL INDICATED OF APPROPRIATE SIZE FOR THE MEMBER BEING CONNECTED.
3. PROVIDE 1/2" PLYWOOD SPACER AT MEMBER END FOR APPROPRIATE FIT.
4. PROVIDE CONNECTOR WITH ONE FLANGE CONCEALED AS NECESSARY AT END OF WALLS OR OTHER OBSTRUCTIONS SUCH AS ATS RODS.

HEADER SCHEDULE

MARK	QUANTITY & SIZE	LEVEL(S)	BEARING STUDS REQUIRED (EACH SIDE)	ADDITIONAL FULL HEIGHT STUDS REQ'D (EACH SIDE)
H-1	3-2x6 W/ (2) 1/2" SPACERS	3RD - 6TH	1	1
		2ND	1	2
H-1E	3-2x6 W/ (2) 1/2" SPACERS	ALL	1	2
H-2	3-2x8 W/ (2) 1/2" SPACERS	3RD - 6TH	1	1
		2ND	1	2
H-2E	3-2x8 W/ (2) 1/2" SPACERS	ALL	1	2
H-3	3-2x10 W/ (2) 1/2" SPACERS	4TH - 6TH	1	1
		2ND - 3RD	1	2
H-3E	3-2x10 W/ (2) 1/2" SPACERS	6TH	1	2
		2ND - 5TH	2	2
H-4	3-2x12	ALL	SEE PLAN	
H-4E	3-2x12 W/ (2) 1/2" SPACERS	3RD - 6TH	2	2
		2ND	2	3
H-5E	4-2x6 (2 EACH FACE) W/ 2x10 (FLAT) ON BOTTOM	ALL	1	1
H-6[3]	4-2x8 (2 EACH FACE) W/ 2x12 (FLAT) ON BOTTOM	6TH	1	2
H-7	3-1.75x9.5 LVL	2ND	3	1
H-8	2-1.75x9.5 LVL	ALL	SEE #20/S-502	
H-9	2-1.75x14 LVL	ALL	SEE #20/S-502	
H-10	2-1.75x16 LVL	ALL	SEE #20/S-502	
H-11	2-2x10	ALL	2	NA

NOTES:
1. SEE #4/S-501 FOR TYPICAL HEADER CONSTRUCTION. UNLESS AN ALTERNATE POST AND/OR CONNECTION DETAIL IS SPECIFICALLY INDICATED ON PLAN.
2. FOR HEADERS BEARING ON TOP OF A WALL, TOTAL NUMBER OF STUDS TO EQUAL OR EXCEED THE BEARING STUDS REQUIRED PLUS THE ADDITIONAL FULL HEIGHT STUDS SHOWN IN THE SCHEDULE. HEADER BEARING LENGTH (IN INCHES) SHALL BE A MINIMUM OF THE QUANTITY OF BEARING STUDS SHOWN IN THE SCHEDULE MULTIPLIED BY 1.5.
3. HEADER HAS BEEN DESIGNED TO SPAN THE FULL WIDTH OF THE ELEVATOR SHAFT FOR ELEVATOR CAB INSTALLATION ABOVE THE 6TH FLOOR.
4. ALL HEADERS WITH AN 'E' ARE IN EXTERIOR WALLS AND ALL WOOD IN EXTERIOR WALLS IS TO BE FIRE RETARDANT TREATED WOOD. SEE GENERAL WOOD NOTES ON S-002 FOR MINIMUM REDUCTIONS VALUES ASSUMED ASSOCIATED WITH THE TREATMENT OF THE FRT WOOD AND THE STRUCTURAL DESIGN.

LOAD-BEARING WALL SCHEDULE

MARK	LEVEL(S)	STUDS			SILL & TOP PLATES MATERIAL	NOTES
		SIZE	MATERIAL	SPACING		
LBW-1	4TH - 6TH	2X6	SPF NO. 1/NO. 2	16" O.C.	SPF NO. 1/NO. 2	FRT [1]
	2ND - 3RD	2X6	SPF NO. 1/NO. 2	16" O.C.	SO. PINE NO. 1	
LBW-2	6TH	2X6	SPF NO. 1/NO. 2	16" O.C.	SPF NO. 1/NO. 2	FRT [1]
	2ND - 5TH	2X6	SPF NO. 1/NO. 2	16" O.C.	SO. PINE NO. 1	
LBW-3	6TH	2X6	SPF NO. 1/NO. 2	16" O.C.	SPF NO. 1/NO. 2	FRT [1]
	4TH - 5TH	2X6	SPF NO. 1/NO. 2	16" O.C.	SO. PINE NO. 1	
	2ND - 3RD	2X6	SPF NO. 1/NO. 2	(2) @ 16" O.C.	SO. PINE NO. 1	
LBW-4	6TH	2X6	SPF NO. 1/NO. 2	16" O.C.	SPF NO. 1/NO. 2	FRT [1]
	2ND - 5TH	2X10	SPF NO. 1/NO. 2	16" O.C.	SPF NO. 1/NO. 2	
LBW-5[2]	2ND - 6TH	2X6	SPF NO. 1/NO. 2	16" O.C.	SPF NO. 1/NO. 2	
LBW-6[2]	3RD - 6TH	2X6	SPF NO. 1/NO. 2	16" O.C.	SPF NO. 1/NO. 2	
	2ND	2X6	SPF NO. 1/NO. 2	16" O.C.	SO. PINE NO. 1	
LBW-7[2]	4TH - 6TH	2X6	SPF NO. 1/NO. 2	16" O.C.	SPF NO. 1/NO. 2	
	3RD	2X6	SPF NO. 1/NO. 2	16" O.C.	SO. PINE NO. 1	
	2ND	2X6	SPF NO. 1/NO. 2	(2) @ 16" O.C.	SO. PINE NO. 1	
LBW-8	6TH	2X12	SPF NO. 1/NO. 2	16" O.C.	SPF NO. 1/NO. 2	
	2ND - 5TH	2X6	SPF NO. 1/NO. 2	16" O.C.	SPF NO. 1/NO. 2	

NOTES:
1. ALL WOOD IN EXTERIOR WALLS TO BE FIRE RETARDANT TREATED WOOD. SEE GENERAL WOOD NOTES ON S-002 FOR MINIMUM REDUCTIONS VALUES ASSUMED ASSOCIATED WITH THE TREATMENT OF THE FRT WOOD AND THE STRUCTURAL DESIGN.
2. SOME WALLS AT 6TH LEVEL ARE NOT LOAD BEARING WALLS (REFER TO PLAN ON S-107).
3. PRIOR TO FASTENING BOTTOM SILL PLATES TO THE SECOND FLOOR CONCRETE SLAB ON METAL DECK, THE REINFORCING SHALL BE LOCATED VIA GPR. DO NOT CUT REINFORCING BARS WHEN INSTALLING FASTENERS.
4. FOR CONSTRUCTION STABILITY PROVIDE THE FOLLOWING BLOCKING IN ALL EXTERIOR AND BEARING WALLS:
   EXTERIOR WALLS (ALL LEVELS) @ MID-HEIGHT OF WALL
   INTERIOR WALLS** LEVELS 2, 3, 4 @ 42" O.C. VERTICAL SPACING
   INTERIOR WALLS** LEVELS 5 AND 6 @ MID-HEIGHT OF WALL
   **INTERIOR WALLS WITH PLYWOOD OR OSB SHEATHING DO NOT NEED BLOCKING PROVIDED THE SHEATHING IS INSTALLED AS THE BUILDING IS CONSTRUCTED.
5. — — — = INTERIOR LOAD BEARING WALL

ROOF TRUSS DESIGN NOTES:
1. ALL TRUSSES SHALL BE DESIGNED FOR DEAD, LIVE, WIND, AND (BALANCED, UNBALANCED, & DRIFT) SNOW LOADS IN ACCORDANCE WITH THE INDIANA BUILDING CODE, LATEST EDITION.
2. INDIVIDUAL TRUSS COMPONENTS SHALL BE DESIGNED FOR COMPONENT AND CLADDING WIND LOADS.
3. TRUSS MANUFACTURER SHALL LIMIT TOTAL DEFLECTIONS TO L/360.
4. GIRDER TRUSSES: DESIGN FOR REACTIONS OF ALL SUPPORTED TRUSSES.
5. ONLY CERTIFIED TRUSS SHOP DRAWINGS WILL BE REVIEWED.
6. MAXIMUM TRUSS SPACING = 24" O.C. SEE ROOF PLAN FOR SPECIFIC LAYOUT OF TRUSSES TO MISS MEP ITEMS.

ROOF TRUSS PROFILE: 18" MIN. DEPTH (AT ROOF VALLEY - SEE PLAN), WITH 1/4" / FOOT SLOPE.

LOADING:
DEAD:
- TOP CHORD: 12 PSF
- BOTTOM CHORD: 13 PSF
- MECHANICAL EQUIPMENT: SEE DIAGRAM
- ROOF LIVE: 20 PSF
- BALANCED SNOW: 20 PSF
- SNOW DRIFT: SEE DIAGRAM
- WIND UPLIFT: PER ASCE 7 - SEE S-001 FOR WIND PARAMETERS

REQUIRED TRUSS BRIDGING:
2X4 X-BRIDGING AT:
SPANS GREATER THAN 12'-0" AND LESS THAN 17'-11" = MIDPOINT
SPANS GREATER THAN 18'-0" = 1/3 POINTS
UNLESS NOTED OTHERWISE BY TRUSS MANUFACTURER

TRUSS BRACING

(A) VERTICAL CROSS BRACING FROM TOP CHORD TO BOTTOM CHORD. (CENTERED ON TRUSS SPAN)

(B) HORIZONTAL BRACING PLACED ON TOP OF BOTTOM CHORD AND ON BOTTOM OF TOP CHORD.

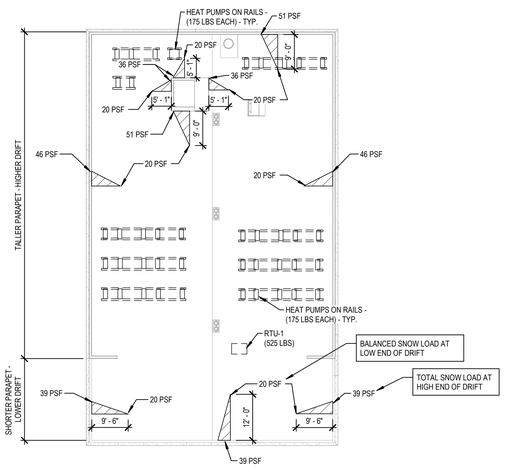
PERMANENT BRACING SHOWN ON THE FRAMING PLANS SHALL BE A MINIMUM. ANY ADDITIONAL PERMANENT BRACING DEEMED NECESSARY BY THE TRUSS MANUFACTURER SHALL ALSO BE INCLUDED.

TEMPORARY BRACING OF THE TRUSSES DURING CONSTRUCTION IS THE RESPONSIBILITY OF THE CONTRACTOR, NOT BY BUILDING ENGINEER OF RECORD.

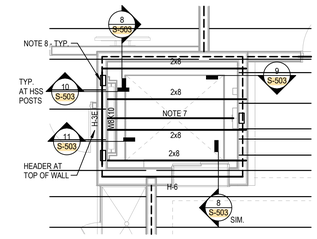
HORIZONTAL BRACING OF TRUSS COMPRESSION MEMBERS SHALL BE DESIGNED BY THE TRUSS MANUFACTURER. CONSULT TRUSS MANUFACTURER FOR ANY ADDITIONAL BRACING REQUIREMENTS.

INSTALLATION AND BRACING OF WOOD TRUSSES SHALL COMPLY WITH "HANDLING, INSTALLING & BRACING METAL PLATE CONNECTED WOOD TRUSSES" (BCSI 1-08) AS PUBLISHED BY THE TPI AND WTCA.

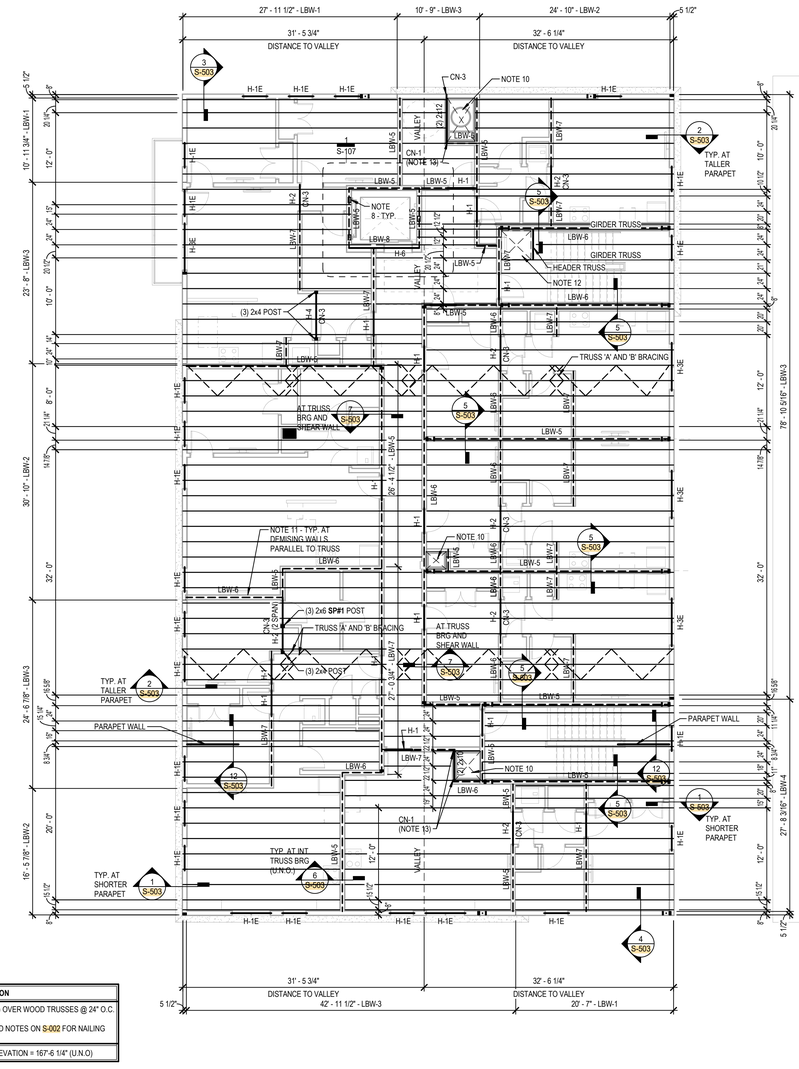
PLAN NOTES THIS SHEET:
1. SEE S-002 FOR GENERAL WOOD NOTES. INCLUDING MATERIAL SPECIFICATIONS AND NAILING REQUIREMENTS, UNLESS NOTED OTHERWISE ON THIS SHEET.
2. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL DIMENSIONS AND WALL CONSTRUCTION INFORMATION.
3. ALL STUD WALLS SHALL HAVE FULL HEIGHT STUDS. SPLICING STUDS IS NOT ACCEPTABLE.
4. AT EXTERIOR WALLS, DIMENSIONS ARE TO OUTSIDE FACE OF STUD.
5. MECHANICAL, PLUMBING, AND ELECTRICAL CONTRACTORS SHALL DESIGN THEIR SYSTEMS TO ACCOMMODATE 3/8" VERTICAL SHRINKAGE OF THE STRUCTURE PER FLOOR.
6. AT MULTI-PLY TRUSSES PROVIDE BEARING STUDS EQUAL TO THE NUMBER OF TRUSS PLIES, U.N.O.
7. ELEVATOR HOIST BEAM TO BE W8x18 AND IS DESIGNED FOR A 7500 LBS POINT LOAD AT ANY POINT. COORDINATE LOCATION AND TOP OF BEAM W/ MANUF.
8. HSS8X4X1/4 FOR ELEVATOR RAIL LATERAL SUPPORT. COORDINATE ELEVATIONS AND RAIL ATTACHMENT WITH ELEVATOR MANUFACTURER. SEE #10/S-503 FOR CONNECTION TO ROOF FRAMING.
9. ALL WOOD IN EXTERIOR WALLS TO BE FIRE RETARDANT TREATED WOOD. SEE GENERAL WOOD NOTES ON S-002 FOR MINIMUM REDUCTIONS VALUES ASSUMED ASSOCIATED WITH THE TREATMENT OF THE FRT WOOD AND THE STRUCTURAL DESIGN.
10. PROVIDE 2x6 FIELD FRAMING AS REQUIRED AT CHASE LOCATIONS. COORDINATE ROOF PENETRATIONS WITH MECHANICAL.
11. APPLY PLYWOOD, OSB, OR DRYWALL DRAFT STOP TO TRUSSES LOCATED ABOVE DEMISING WALLS. IF NO TRUSS EXISTS ABOVE A DEMISING WALL, PROVIDE 2x SUPPORT FRAMING TO BOTTOM OF ROOF SHEATHING AS REQUIRED.
12. FRAME AROUND ROOF HATCH. VERIFY ROUGH OPENING WITH SUPPLIER.
13. PROVIDE VERTICAL 2x6 (FLAT) AGAINST TRUSS TO ACCEPT CONNECTOR (SEE CONNECTION LEGEND), FASTENED TO TOP AND BOTTOM CHORDS W/ (4) 3"x0.131" NAILS EACH CHORD



2 ROOF LOAD DIAGRAM
1/16" = 1'-0"



1 ENLARGED ROOF FRAMING PLAN - ELEVATOR
1/4" = 1'-0"



ROOF CONSTRUCTION
PLYWOOD (OR OSB) OVER WOOD TRUSSES @ 24" O.C. MAX. (U.N.O.) NAILING - SEE WOOD NOTES ON S-002 FOR NAILING REQUIREMENTS
TRUSS BEARING ELEVATION = 167'-6 1/4" (U.N.O)

FRAMING PLAN - ROOF
1/8" = 1'-0"
NORTH

PRIOR TO THE START OF WOOD FRAMING/CONSTRUCTION A PRE-CONSTRUCTION MEETING IS TO BE HELD WITH A REPRESENTATIVE FROM EACH OF THE FOLLOWING IN ATTENDANCE (AT A MINIMUM):
- MODELGROUP
- ENGINEERING RESOURCES, INC.
- MKM ARCHITECTURE
- FRAMING SUBCONTRACTOR
- TESTING AGENCY

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REVISION

No.	Date	Revision

DRAWING CONTENTS:
FRAMING PLAN - ROOF

ISSUE DATE: 09/13/2024
PROJECT NO. 23029

DRAWING NO.
S-107

SHEAR WALL SCHEDULE

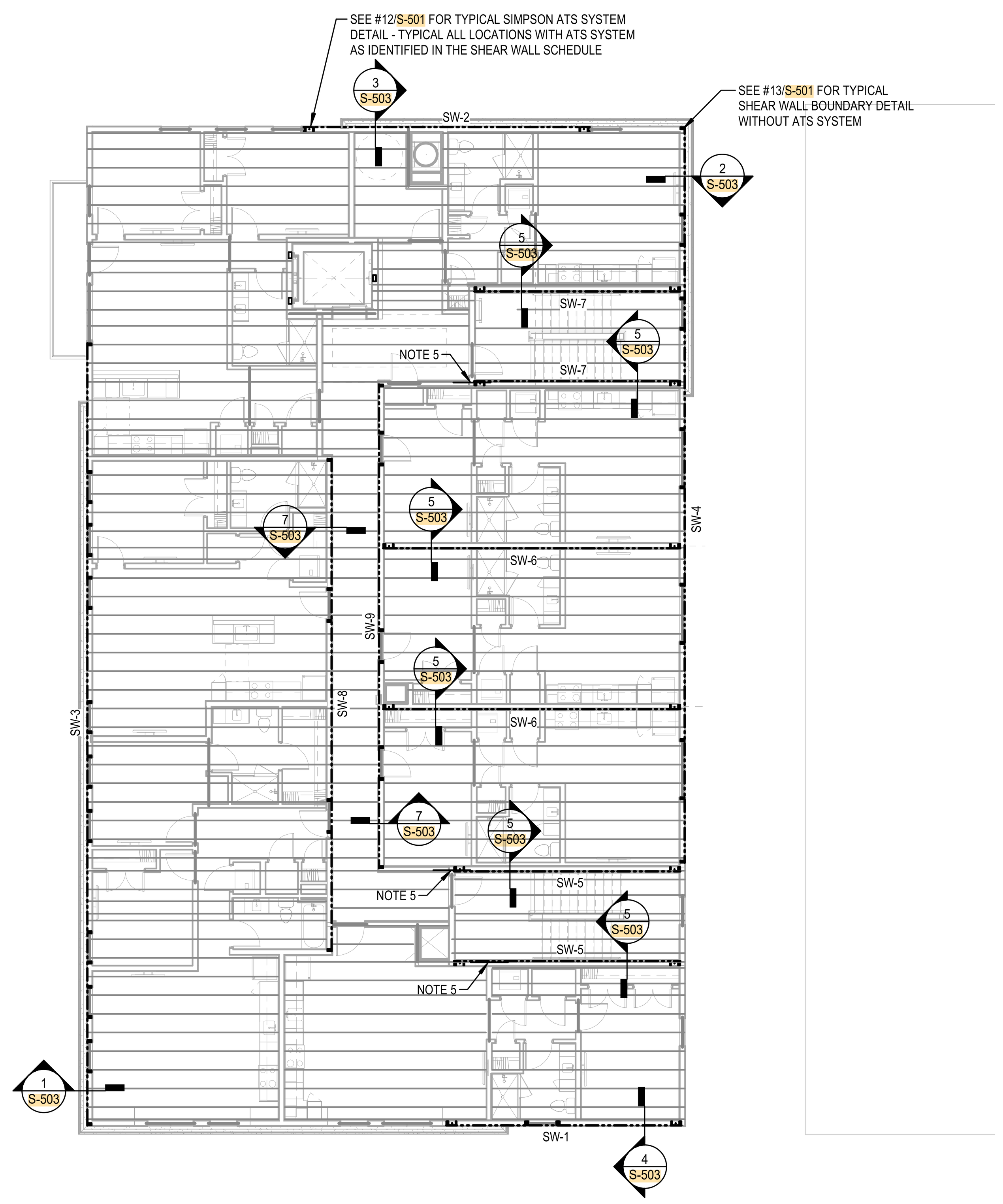
MARK	LEVEL(S)	SHEATHING THICKNESS[1]	PANEL EDGE FASTENING[2,3,4,5,6]	BLOCKED[7]	SIMPSON ATS RUN ID	BOUNDARY POST STUD QTY & SIZE	SILL ANCHOR TYPE AND SPACING[8]
SW-1	5TH - 6TH	15/32"	2 1/2"x0.131" NAILS @ 6" O.C.	BLOCKED	T5.4	3 - 2x6	SPA-1 @ 20" O.C.
	4TH	15/32"	2 1/2"x0.131" NAILS @ 4" O.C.	BLOCKED		4 - 2x6	SPA-1 @ 12" O.C.
	3RD	15/32"	2 1/2"x0.131" NAILS @ 3" O.C.	BLOCKED		4 - 2x6	SPA-1 @ 8" O.C.
	2ND	15/32"	2 1/2"x0.131" NAILS @ 3" O.C.	BLOCKED		6 - 2x6	SPA-2 @ 12" O.C.
SW-2	6TH	15/32"	2 1/2"x0.131" NAILS @ 6" O.C.	UNBLOCKED	T5.3	3 - 2x6	SPA-1 @ 20" O.C.
	4TH - 5TH	15/32"	2 1/2"x0.131" NAILS @ 6" O.C.	BLOCKED		3 - 2x6	SPA-1 @ 12" O.C.
	3RD	15/32"	2 1/2"x0.131" NAILS @ 4" O.C.	BLOCKED		4 - 2x6	SPA-1 @ 12" O.C.
	2ND	15/32"	2 1/2"x0.131" NAILS @ 4" O.C.	BLOCKED		5 - 2x6	SPA-2 @ 16" O.C.
SW-3	5TH - 6TH	15/32"	2 1/2"x0.131" NAILS @ 6" O.C.	UNBLOCKED	NONE	2 - 2x6	SPA-1 @ 20" O.C.
	4TH	15/32"	2 1/2"x0.131" NAILS @ 6" O.C.	UNBLOCKED		3 - 2x6	SPA-1 @ 20" O.C.
	3RD	15/32"	2 1/2"x0.131" NAILS @ 6" O.C.	BLOCKED		3 - 2x6	SPA-1 @ 20" O.C.
	2ND	15/32"	2 1/2"x0.131" NAILS @ 6" O.C.	BLOCKED		4 - 2x6	SPA-2 @ 24" O.C.
SW-4	5TH - 6TH	15/32"	2 1/2"x0.131" NAILS @ 6" O.C.	UNBLOCKED	NONE	2 - 2x6	SPA-1 @ 20" O.C.
	3RD - 4TH	15/32"	2 1/2"x0.131" NAILS @ 6" O.C.	BLOCKED		3 - 2x6	SPA-1 @ 12" O.C.
	2ND	15/32"	2 1/2"x0.131" NAILS @ 6" O.C.	BLOCKED		5 - 2x6	SPA-2 @ 24" O.C.
SW-5	5TH - 6TH	15/32"	2 1/2"x0.131" NAILS @ 6" O.C.	BLOCKED	T5.4	3 - 2x6	SPA-1 @ 12" O.C.
	4TH	15/32"	2 1/2"x0.131" NAILS @ 4" O.C.	BLOCKED		4 - 2x6	SPA-1 @ 8" O.C.
	3RD	15/32"	2 1/2"x0.131" NAILS @ 3" O.C.	BLOCKED		5 - 2x6	SPA-1 @ 6" O.C.
	2ND	15/32"	2 1/2"x0.131" NAILS @ 3" O.C.	BLOCKED		7 - 2x6	SPA-2 @ 12" O.C.
SW-6	6TH	15/32"	2 1/2"x0.131" NAILS @ 6" O.C.	UNBLOCKED	T5.3	3 - 2x6	SPA-1 @ 20" O.C.
	5TH	15/32"	2 1/2"x0.131" NAILS @ 6" O.C.	BLOCKED		3 - 2x6	SPA-1 @ 12" O.C.
	3RD - 4TH	15/32"	2 1/2"x0.131" NAILS @ 4" O.C.	BLOCKED		4 - 2x6	SPA-1 @ 8" O.C.
	2ND	15/32"	2 1/2"x0.131" NAILS @ 3" O.C.	BLOCKED		6 - 2x6	SPA-2 @ 12" O.C.
SW-7	6TH	15/32"	2 1/2"x0.131" NAILS @ 6" O.C.	BLOCKED	T5.4	3 - 2x6	SPA-1 @ 12" O.C.
	5TH	15/32"	2 1/2"x0.131" NAILS @ 4" O.C.	BLOCKED		3 - 2x6	SPA-1 @ 8" O.C.
	4TH	15/32"	2 1/2"x0.131" NAILS @ 4" O.C.	BLOCKED		4 - 2x6	SPA-1 @ 8" O.C.
	3RD	15/32"	2 1/2"x0.131" NAILS @ 3" O.C.	BLOCKED		6 - 2x6	SPA-1 @ 6" O.C.
	2ND	15/32"	2 1/2"x0.131" NAILS @ 3" O.C.	BLOCKED		6 - 2x6	SPA-2 @ 12" O.C.
SW-8	5TH - 6TH	15/32"	2 1/2"x0.131" NAILS @ 6" O.C.	UNBLOCKED	T3.2	2 - 2x6	SPA-1 @ 20" O.C.
	4TH	15/32"	2 1/2"x0.131" NAILS @ 6" O.C.	BLOCKED		3 - 2x6	SPA-1 @ 12" O.C.
	3RD	15/32"	2 1/2"x0.131" NAILS @ 6" O.C.	BLOCKED		4 - 2x6	SPA-1 @ 12" O.C.
	2ND	15/32"	2 1/2"x0.131" NAILS @ 6" O.C.	BLOCKED		4 - 2x6	SPA-2 @ 24" O.C.
SW-9	5TH - 6TH	15/32"	2 1/2"x0.131" NAILS @ 6" O.C.	UNBLOCKED	T3.2	2 - 2x6	SPA-1 @ 20" O.C.
	4TH	15/32"	2 1/2"x0.131" NAILS @ 6" O.C.	BLOCKED		3 - 2x6	SPA-1 @ 12" O.C.
	3RD	15/32"	2 1/2"x0.131" NAILS @ 6" O.C.	BLOCKED		5 - 2x6	SPA-1 @ 12" O.C.
	2ND	15/32"	2 1/2"x0.131" NAILS @ 4" O.C.	BLOCKED		5 - 2x6	SPA-2 @ 16" O.C.
EXT.[9]	3RD - 6TH	15/32"	2 1/2"x0.131" NAILS @ 6" O.C.	UNBLOCKED	NONE	NA	SPA-1 @ 20" O.C.
	2ND	15/32"	2 1/2"x0.131" NAILS @ 6" O.C.	UNBLOCKED			SPA-2 @ 48" O.C.

NOTES:

1. SEE WOOD NOTES FOR SHEATHING MATERIAL REQUIREMENTS. ALL EXTERIOR WALL SHEATHING TO BE FIRE RETARDANT TREATED MATERIAL. DASHED LINE AND TAG ON SHEAR WALL PLAN INDICATES SIDE OF WALL TO SHEATH.
2. FASTENING APPLIES TO ALL SUPPORTED PANEL EDGES OF EACH SHEET. FASTENING TO SUPPORTING STUDS NOT AT PANEL EDGES TO BE AT 12" O.C. WITH SAME SIZE FASTENERS.
3. NAILS SHALL BE LOCATED AT LEAST 3/8" FROM THE PANEL EDGES.
4. SHEATHING SHALL BE ATTACHED TO EACH MEMBER OF THE BUILT-UP BOUNDARY ELEMENTS WITH THE SPECIFIED FASTENING.
5. PROVIDE 1 1/2" MINIMUM PENETRATION INTO STUD.
6. SEE #7 AND #8 ON S-501 FOR TYPICAL PANEL JOINT DETAIL.
7. BLOCKED INDICATES THAT ALL HORIZONTAL PANEL JOINTS SHALL HAVE CONTINUOUS SUPPORT VIA HORIZONTAL 2X BLOCKING. ADJACENT SHEATHING PANELS SHALL BE FASTENED INTO A COMMON BLOCKING MEMBER. SEE #8/S-501.
8. SILL PLATE ANCHOR TYPES:
   A. SPA-1: SIMPSON SDS, FASTENMASTER TIMBERLOK OR HEADLOK SCREWS, GRK RSS, OR APPROVED EQUAL. SCREW LENGTH SHALL BE SUFFICIENT TO PENETRATE AT LEAST 1 1/2" INTO THE LAST PLY OF WOOD BEING CONNECTED (WALL TOP PLATE OR RIBBON BOARD). #14 MINIMUM SCREW DIAMETER.
   B. SPA-2: 1/2"x6" SIMPSON TITEN HD SCREW ANCHORS, OR APPROVED EQUAL.
9. APPLIES TO ALL UNMARKED EXTERIOR WALLS.
10. PRIOR TO FASTENING BOTTOM SILL PLATES TO THE SECOND FLOOR CONCRETE SLAB ON METAL DECK, THE REINFORCING SHALL BE LOCATED VIA GPR. DO NOT CUT REINFORCING BARS WHEN INSTALLING FASTENERS.

PLAN NOTES THIS SHEET:

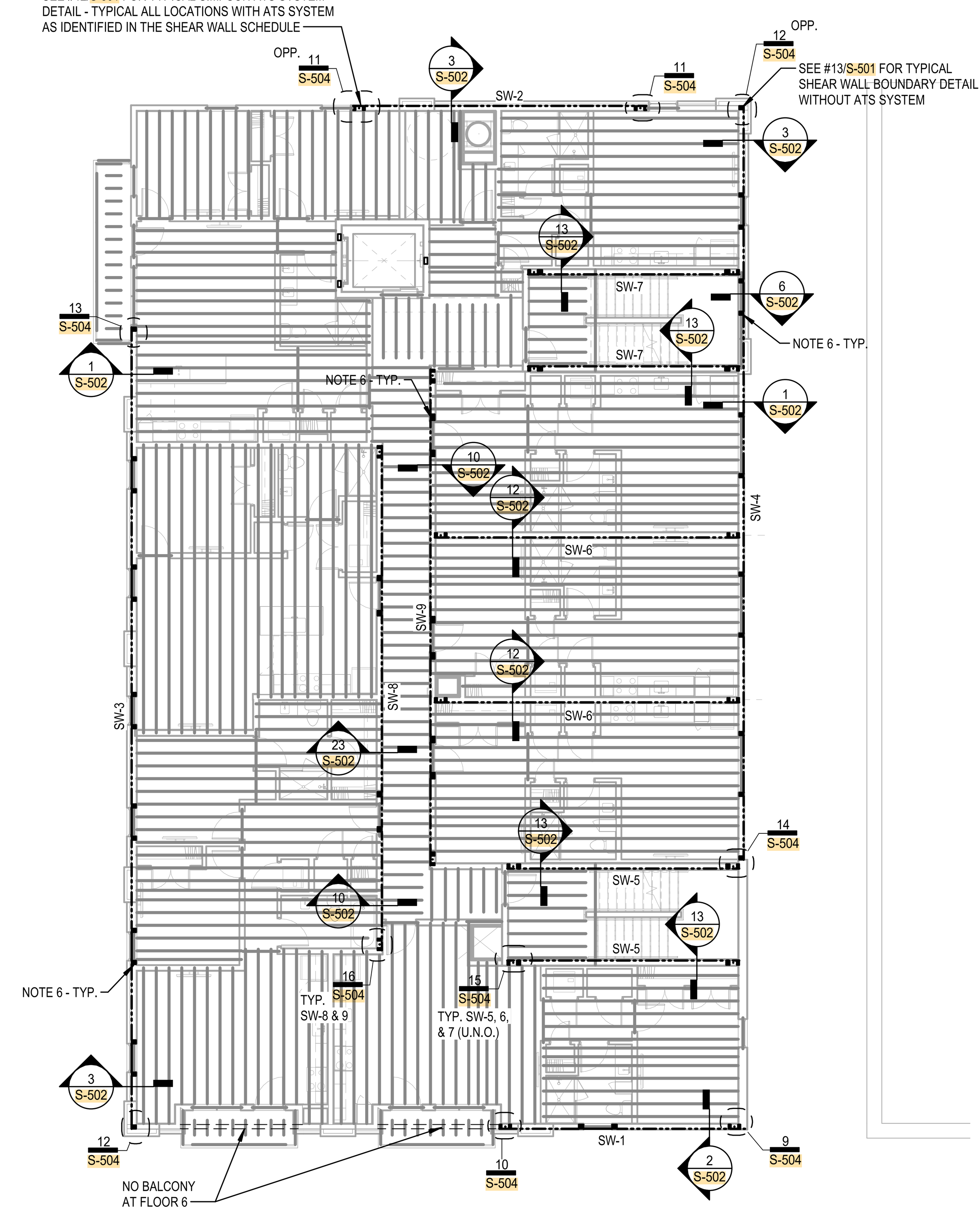
1. SEE S-002 FOR GENERAL WOOD NOTES, INCLUDING MATERIAL SPECIFICATIONS AND NAILING REQUIREMENTS, UNLESS NOTED OTHERWISE ON THIS SHEET.
2. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL DIMENSIONS AND WALL CONSTRUCTION INFORMATION.
3. AT EXTERIOR WALLS, DIMENSIONS ARE TO OUTSIDE FACE OF STUD.
4. —·—·—·— INDICATES SHEAR WALL (LINE AND TAG PLACED ON SIDE OF WALL TO BE SHEATHED). SEE SHEAR WALL SCHEDULE FOR ADDITIONAL INFORMATION.
5. WHERE INDICATED ON PLAN, PROVIDE 2x4 x 4'-0" LONG SISTERED TO TRUSS TOP CHORD (CENTERED ON TRUSS SPLICE), W/ (8) 3"x0.131" NAILS INTO EACH TRUSS.
6. TOTAL NUMBER OF STUDS (BEARING PLUS FULL HEIGHT) EACH SIDE OF OPENINGS LOCATED WITHIN SHEAR WALLS TO EQUAL OR EXCEED THE QUANTITY OF BOUNDARY POST STUDS LISTED IN THE SHEAR WALL SCHEDULE.



SHEAR WALL PLAN - AT ROOF

3/32" = 1'-0"

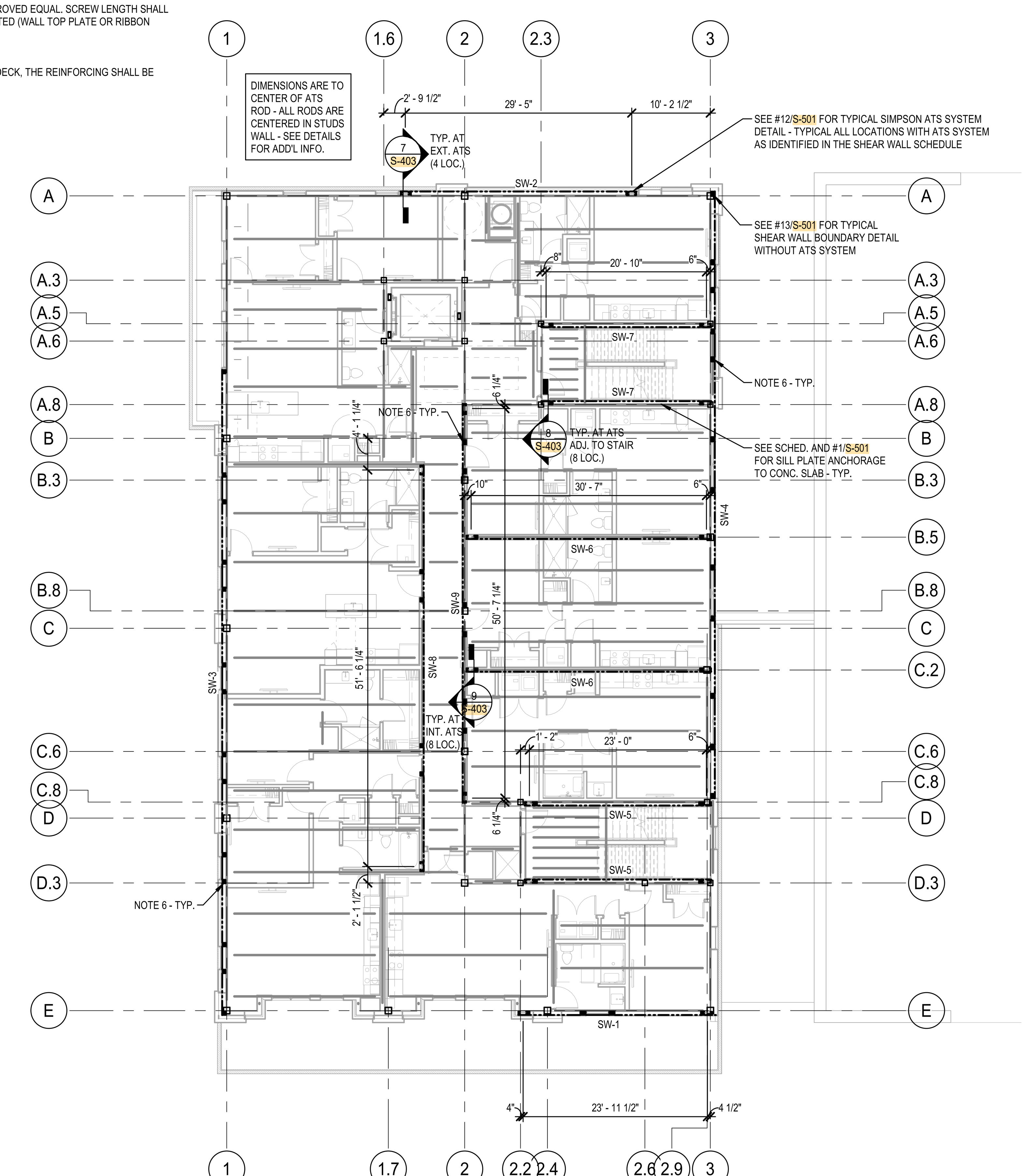
NORTH



SHEAR WALL PLAN - AT FLOORS 3 THRU 6

3/32" = 1'-0"

NORTH



SHEAR WALL PLAN - AT 2ND FLOOR

3/32" = 1'-0"

NORTH

PRIOR TO THE START OF WOOD FRAMING/CONSTRUCTION A PRE-CONSTRUCTION MEETING IS TO BE HELD WITH A REPRESENTATIVE FROM EACH OF THE FOLLOWING IN ATTENDANCE (AT A MINIMUM):
- MODELGROUP
- ENGINEERING RESOURCES, INC.
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- FRAMING SUBCONTRACTOR
- TESTING AGENCY

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09.13.2024
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Key Plan:

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NEW CONSTRUCTION
555 S HARRISON ST.
Fort Wayne, Indiana 46802

REVISION		
No.	Date	Revision

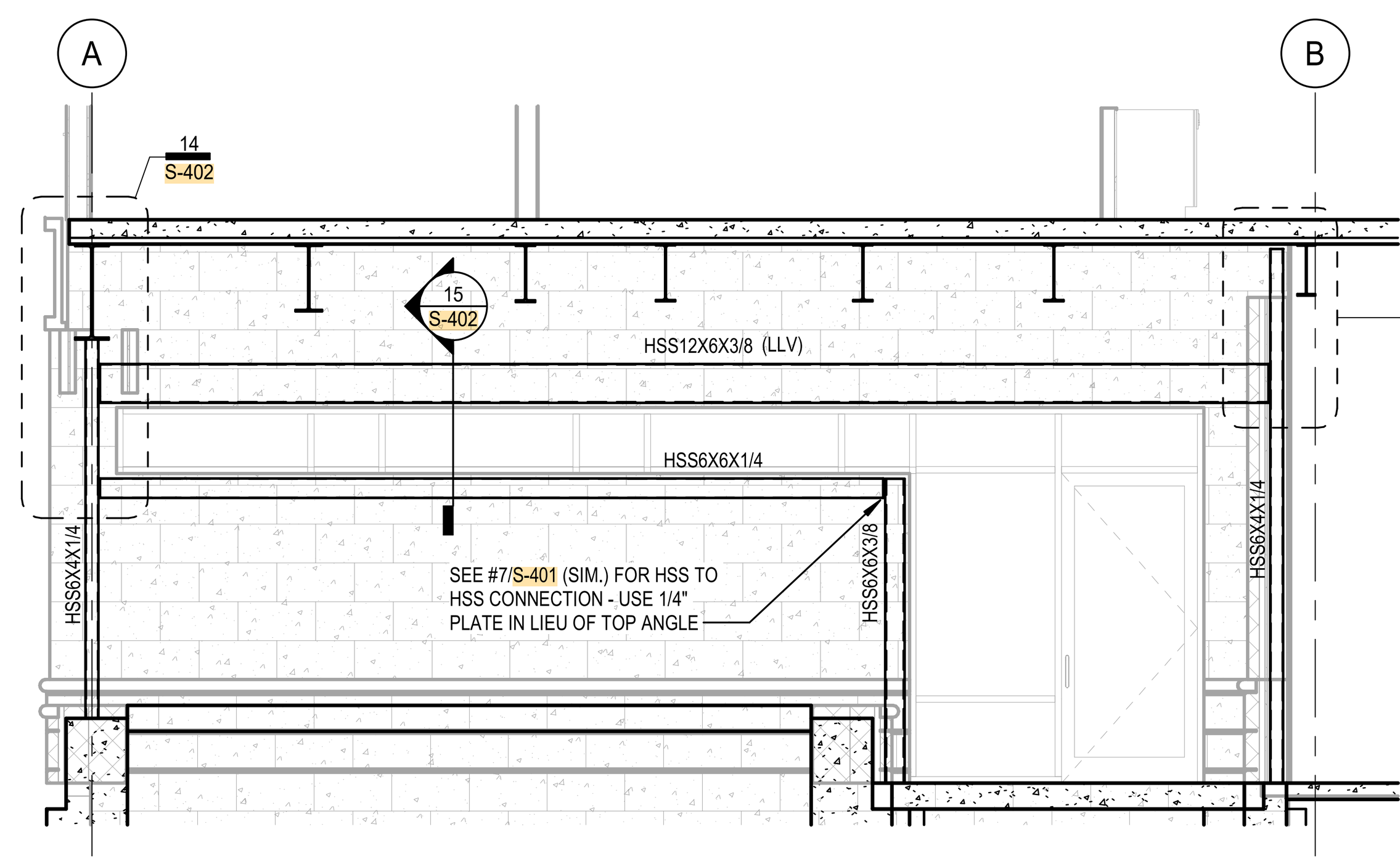
DRAWING CONTENTS:
SHEAR WALL PLANS

ISSUE DATE: 09/13/2024
PROJECT NO. 23029

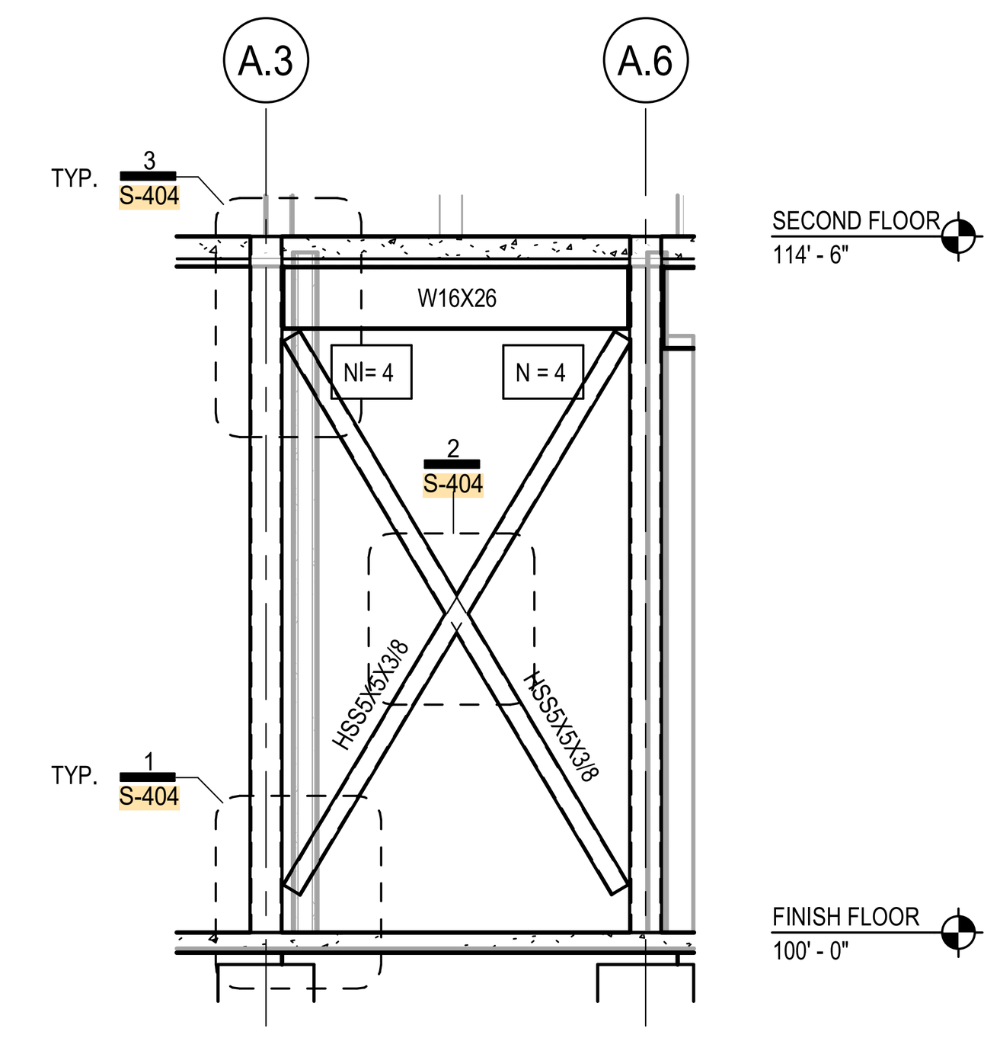
DRAWING NO.
S-110

PLAN NOTES THIS SHEET:

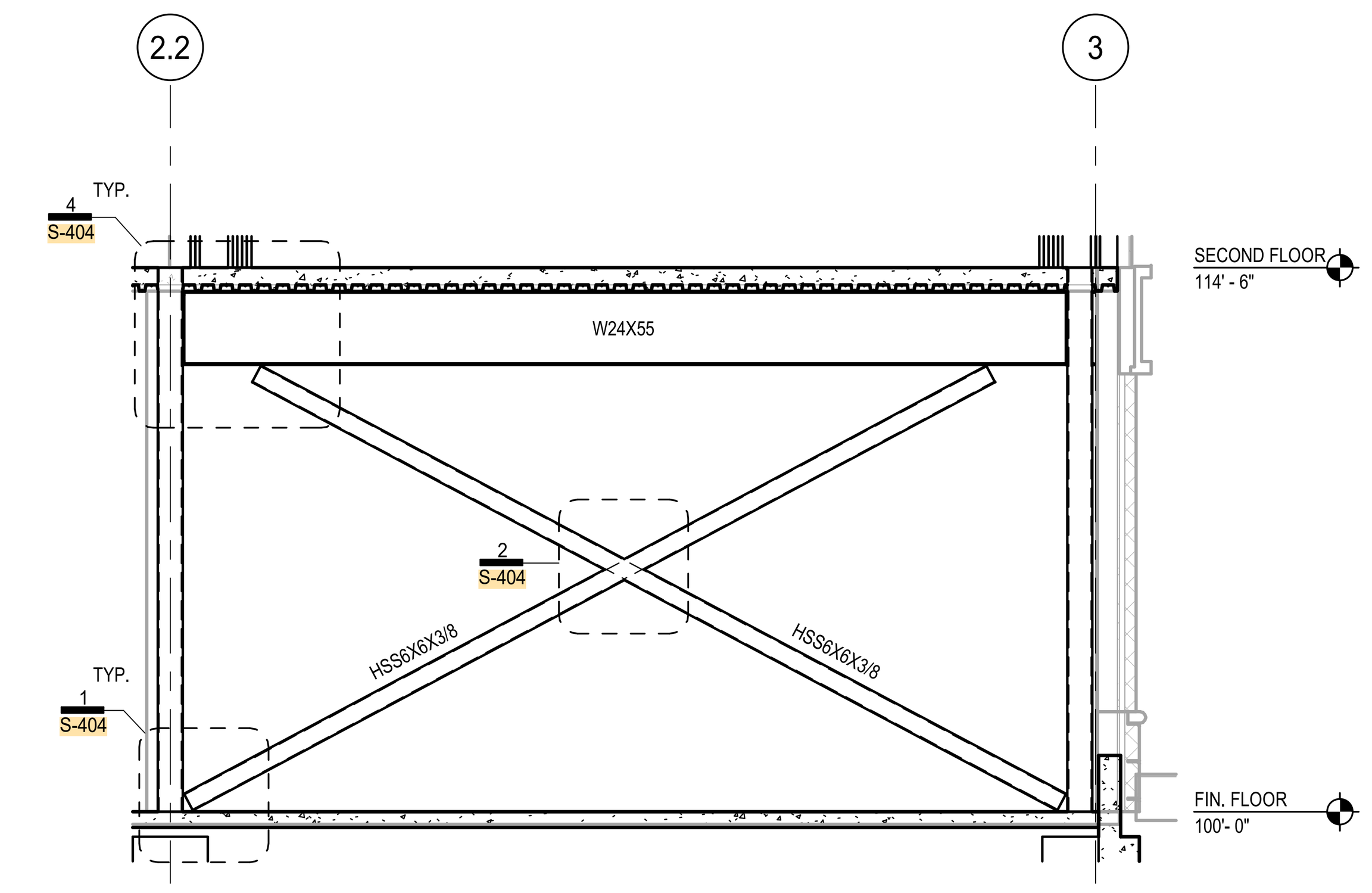
1. 'N' ON ELEVATIONS INDICATE THE NUMBER OF BOLTS REQUIRED FOR THE GUSSET-TO-COLUMN CONNECTION. WHERE 'N' IS NOT SHOWN, NO GUSSET-TO-COLUMN CONNECTION IS REQUIRED. REFER TO DETAILS ON S-404 FOR ADDITIONAL INFORMATION.
2. ALL HSS MEMBERS THAT ARE IN THE STUD PLANE SHALL BE FILLED WITH SPRAY FOAM INSULATION. SEE ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION. **ALL WELDING OF HSS MEMBERS SHALL BE COMPLETED PRIOR TO FILLING WITH INSULATION**. PROVIDE 5/8" DIA. HOLES @ 48" O.C.:
   A. HOLES IN VERTICAL HSS MEMBERS SHALL BE IN THE LONG SIDES ONLY, ALTERNATING SIDES.
   B. HOLES IN HORIZONTAL HSS MEMBERS SHALL BE IN THE TOP ONLY.



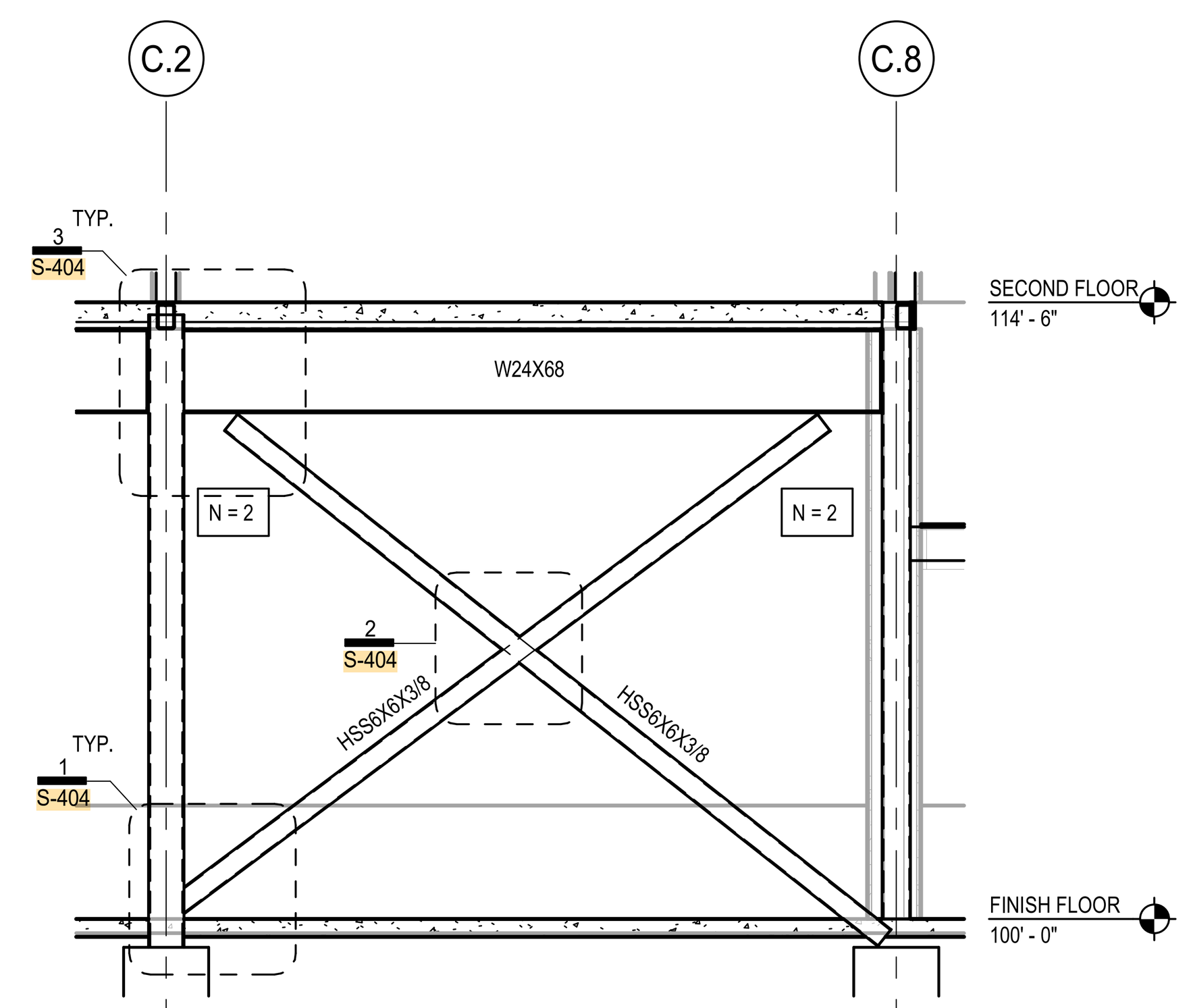
9 STRUCTURAL ELEVATION
1/4" = 1'-0"



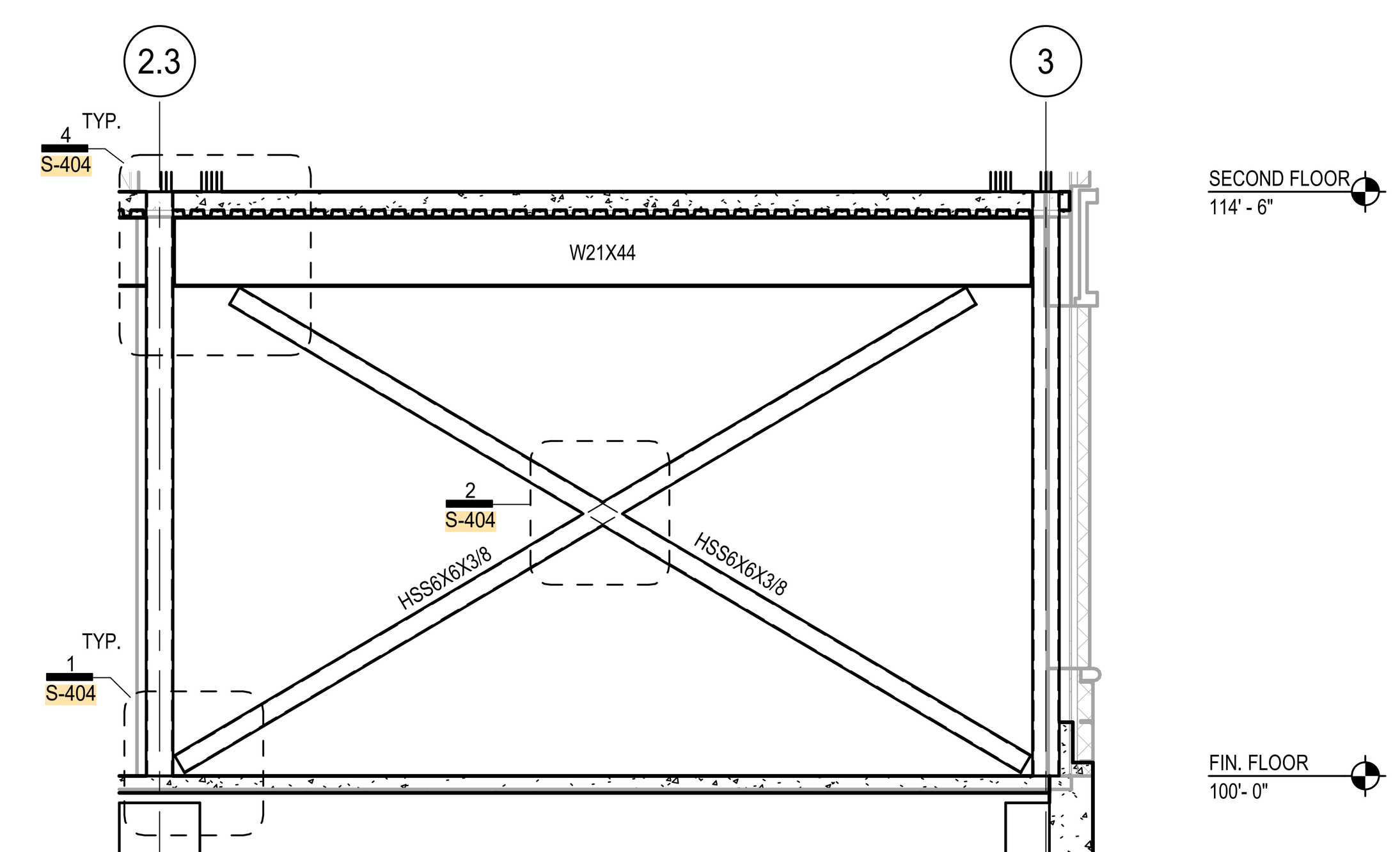
6 STRUCTURAL ELEVATION - GRID '1.6'
1/4" = 1'-0"



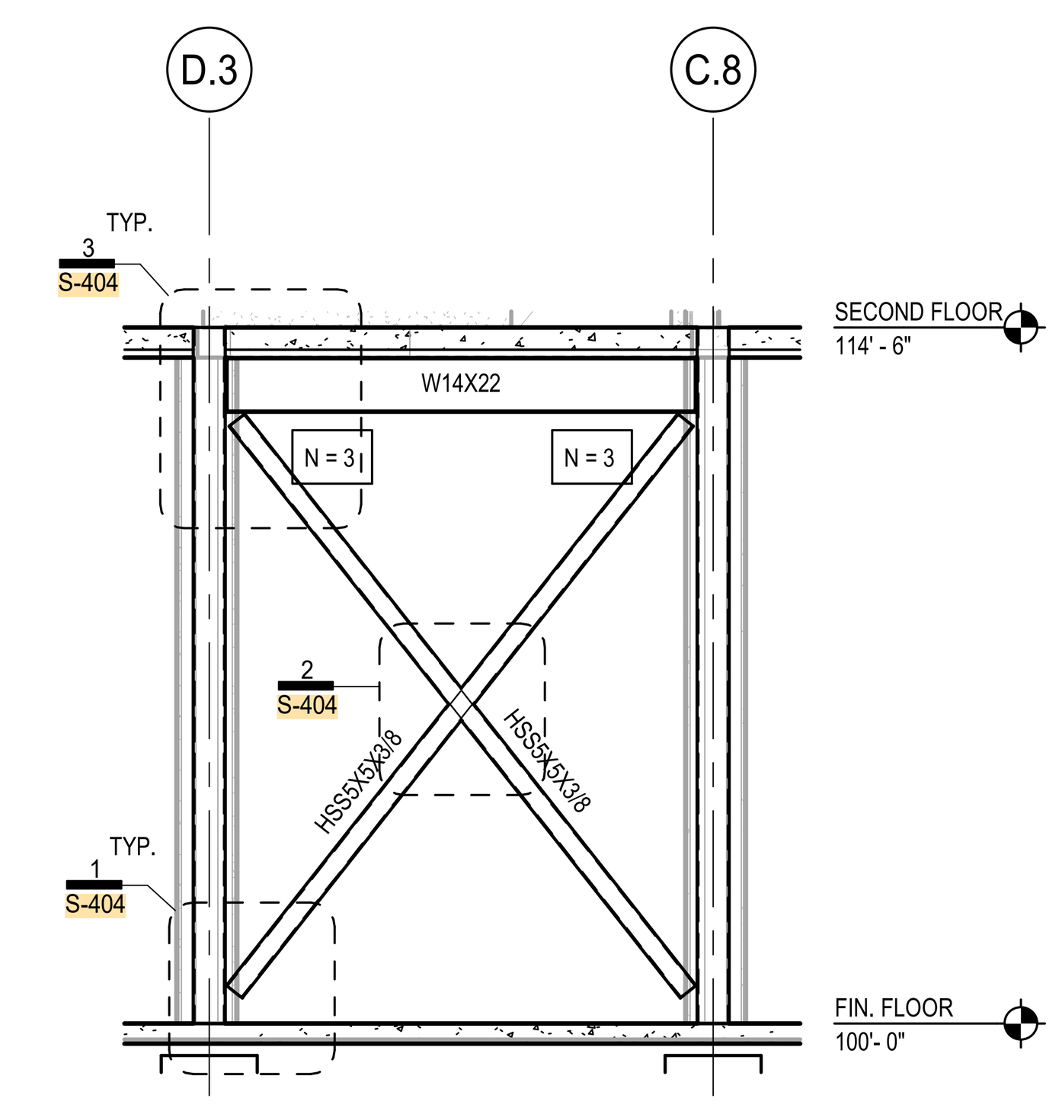
3 STRUCTURAL ELEVATION - GRID 'C.8'
1/4" = 1'-0"



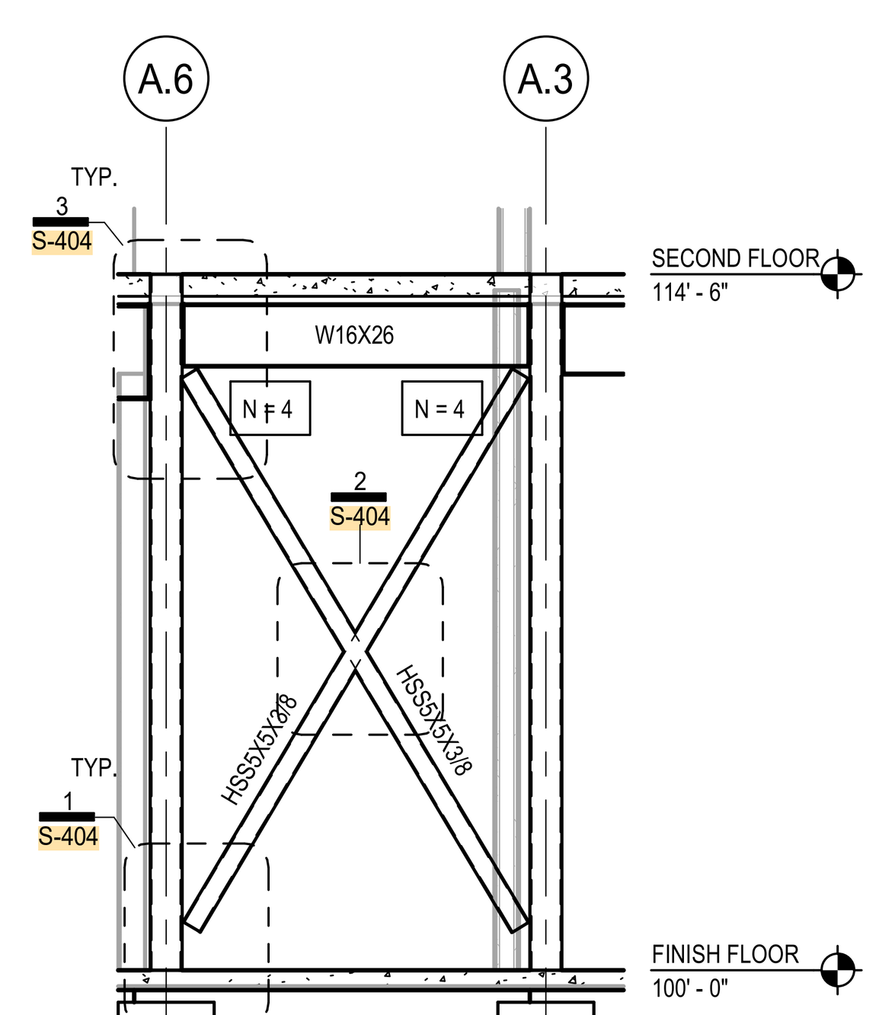
8 STRUCTURAL ELEVATION - GRID '2.9'
1/4" = 1'-0"



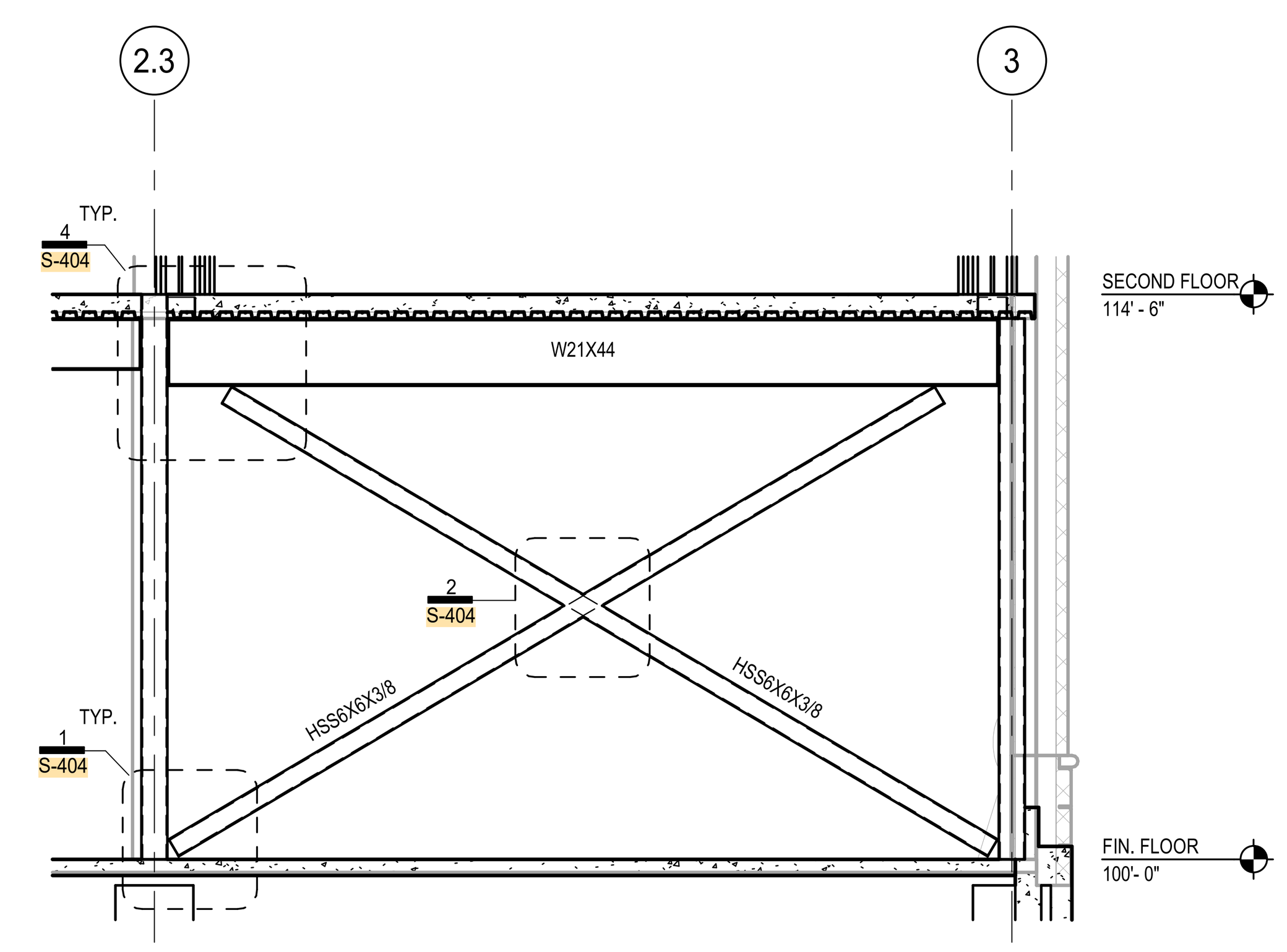
5 STRUCTURAL ELEVATION - GRID 'A.5'
SCALE: 1/4" = 1'-0"



2 STRUCTURAL ELEVATION - GRID '2.2'
1/4" = 1'-0"



7 STRUCTURAL ELEVATION - GRID '2'
1/4" = 1'-0"



4 STRUCTURAL ELEVATION - GRID 'A.8'
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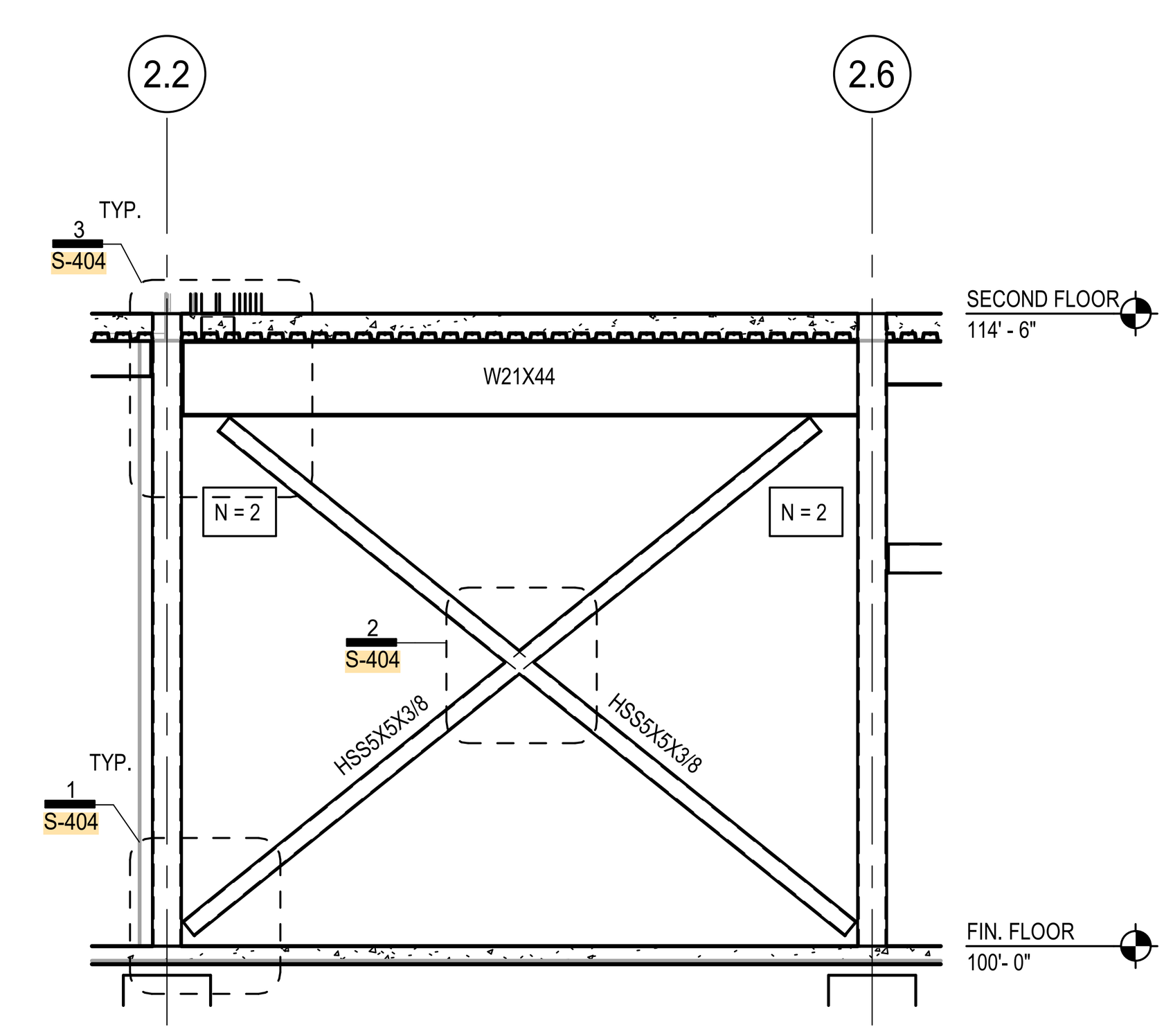

1 STRUCTURAL ELEVATION - GRID 'D.3'
1/4" = 1'-0"

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Key Plan:

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REVISION

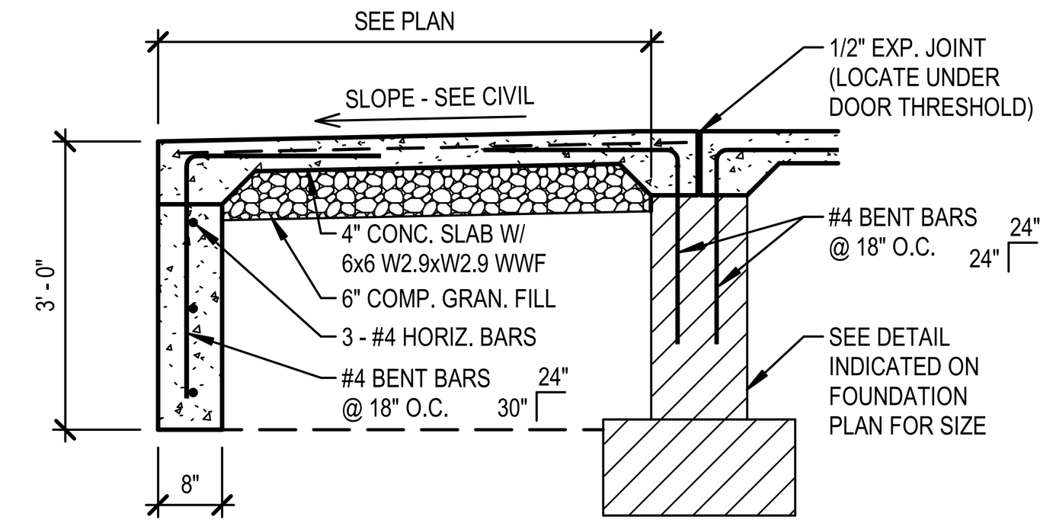
No.	Date	Revision

DRAWING CONTENTS:
STRUCTURAL ELEVATIONS

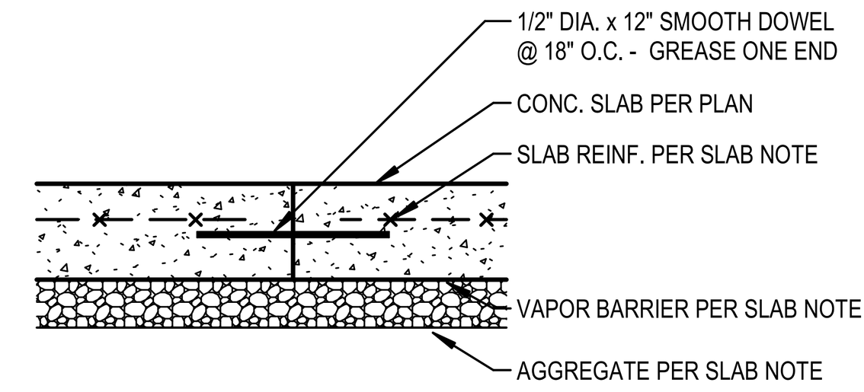
ISSUE DATE:	PROJECT NO.
09/13/2024	23029

DRAWING NO.
S-201

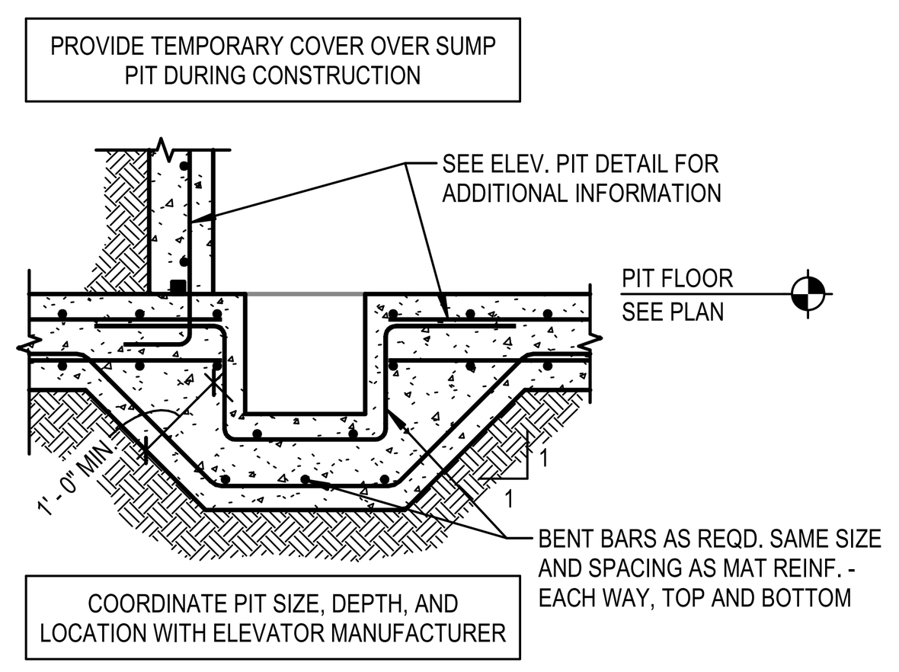
SHEET NOTES:
1. REFER TO ARCHITECTURAL SECTIONS AND DETAILS FOR FOUNDATION INSULATION REQUIREMENTS.



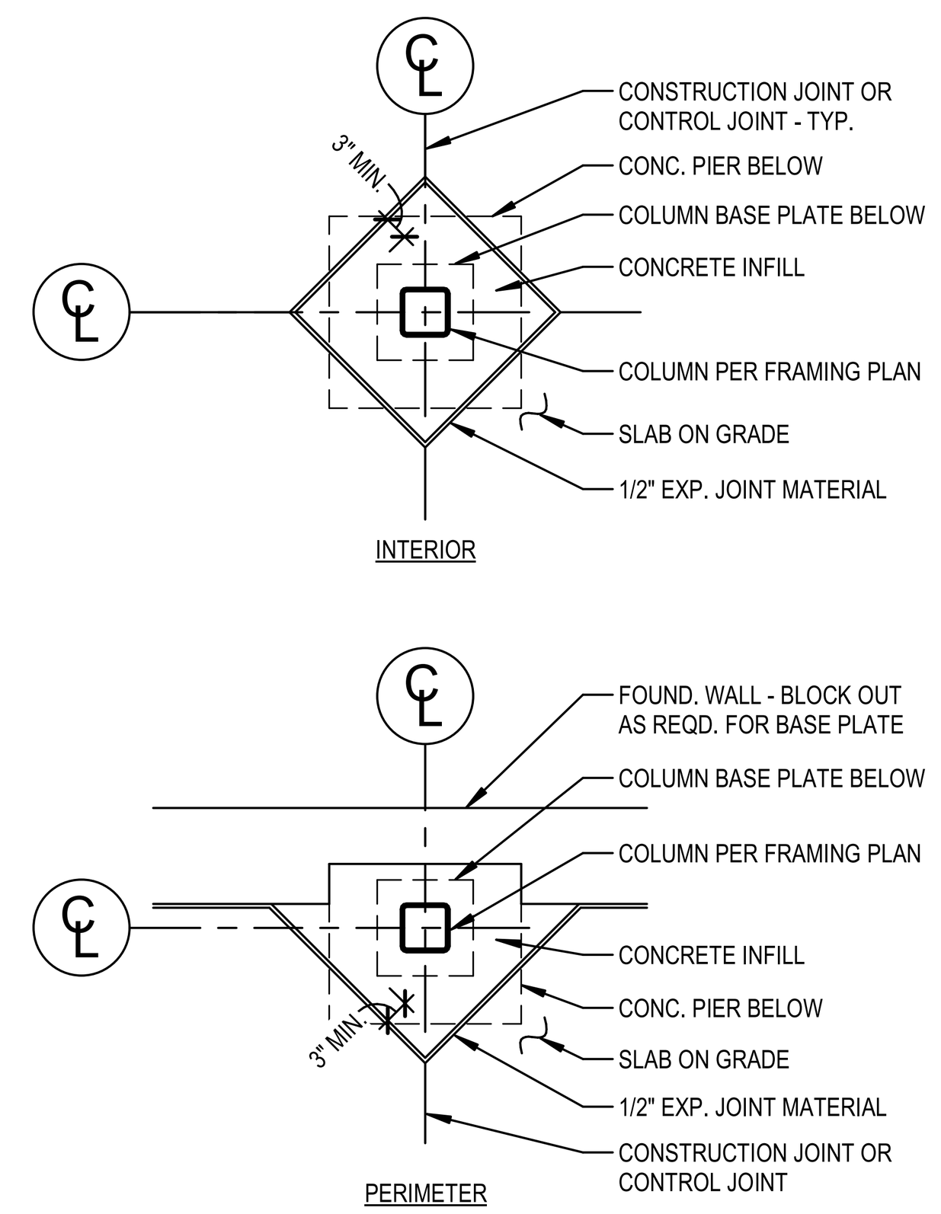
5 STOOP DETAIL
1/2" = 1'-0"



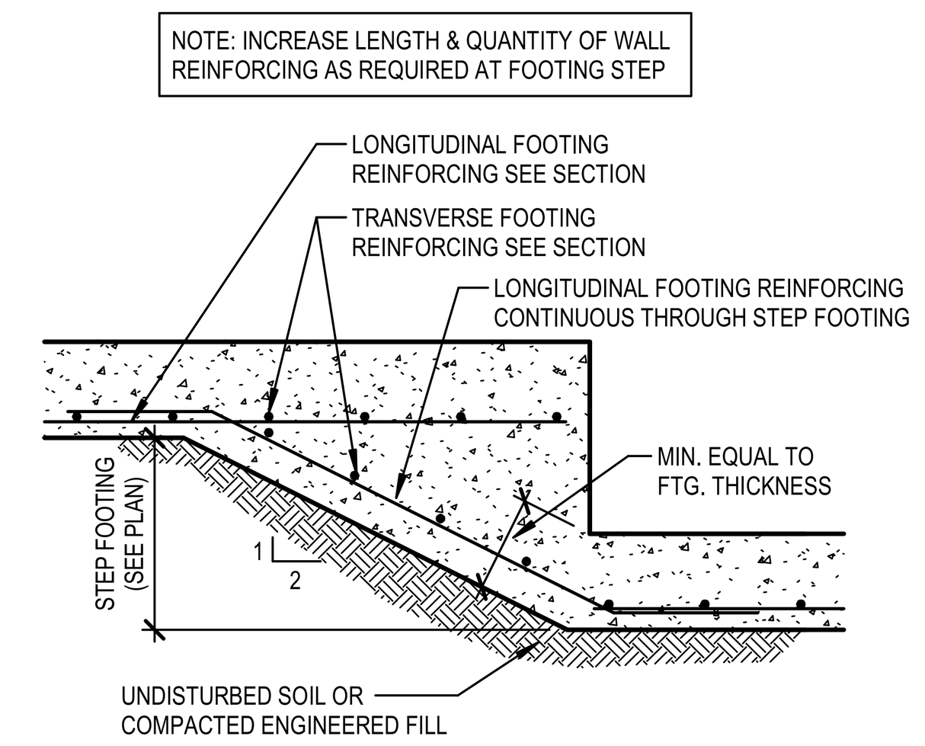
9 SLAB CONST. JOINT DETAIL
1" = 1'-0"



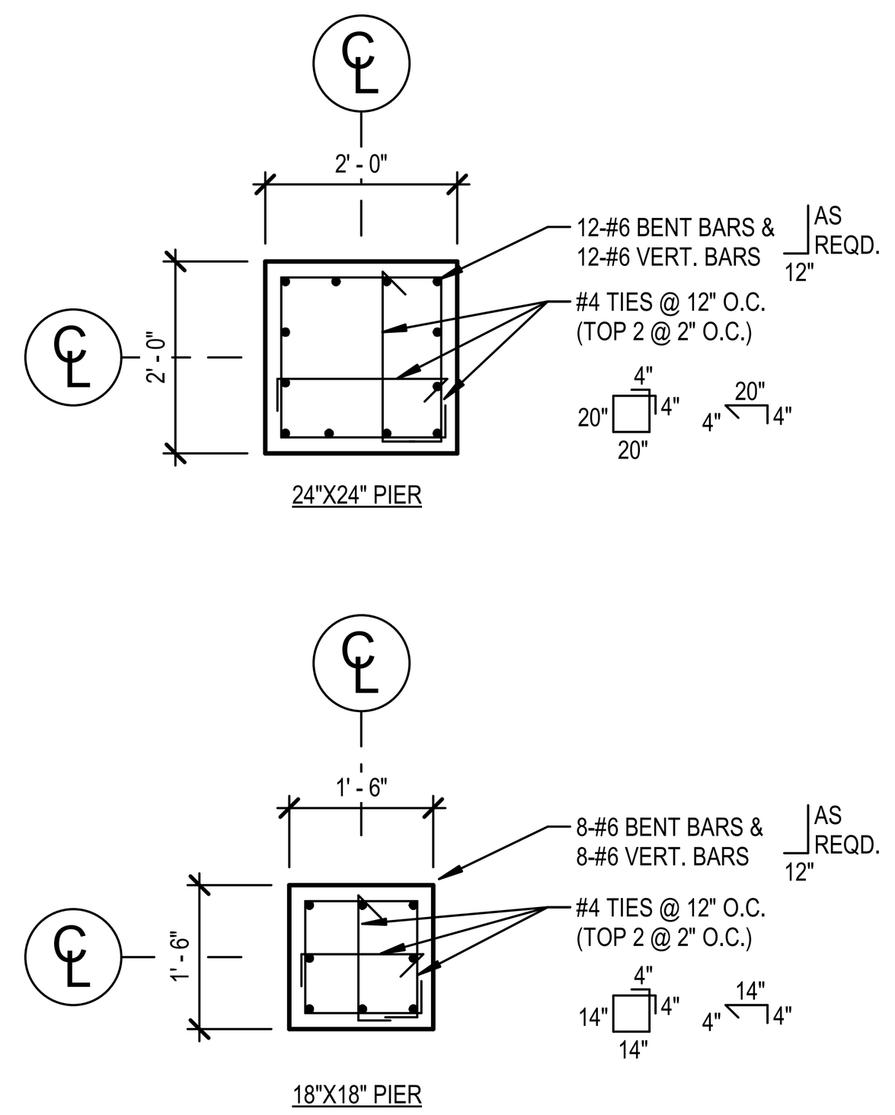
13 ELEVATOR SUMP PIT
1/2" = 1'-0"



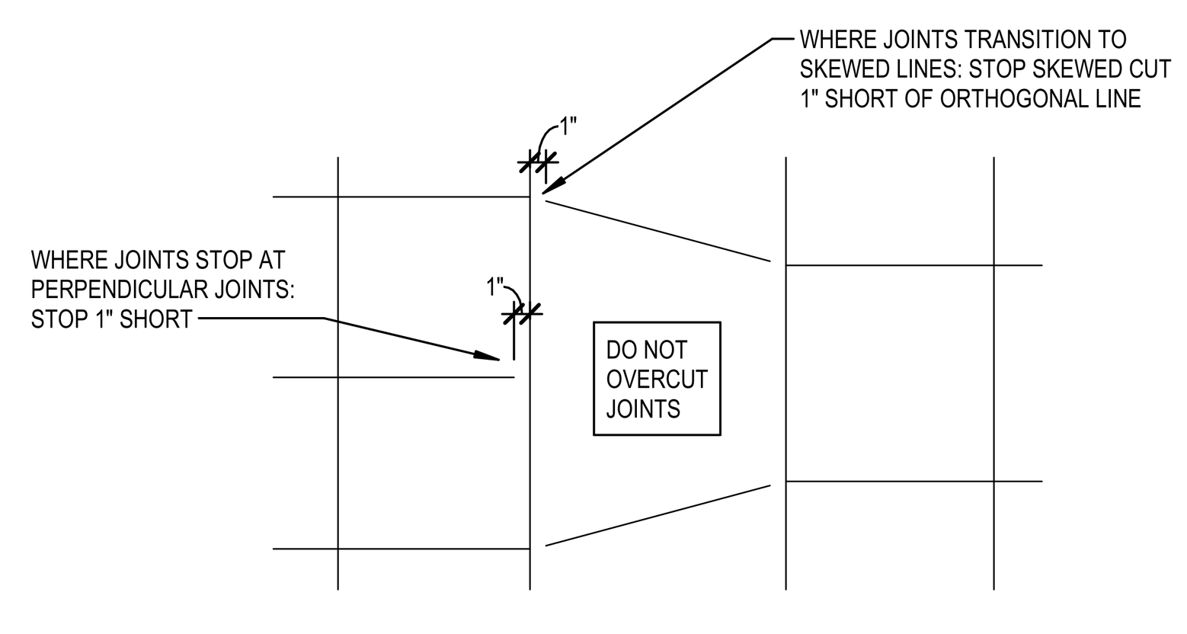
8 TYP. COLUMN ISOLATION JOINT
1/2" = 1'-0"

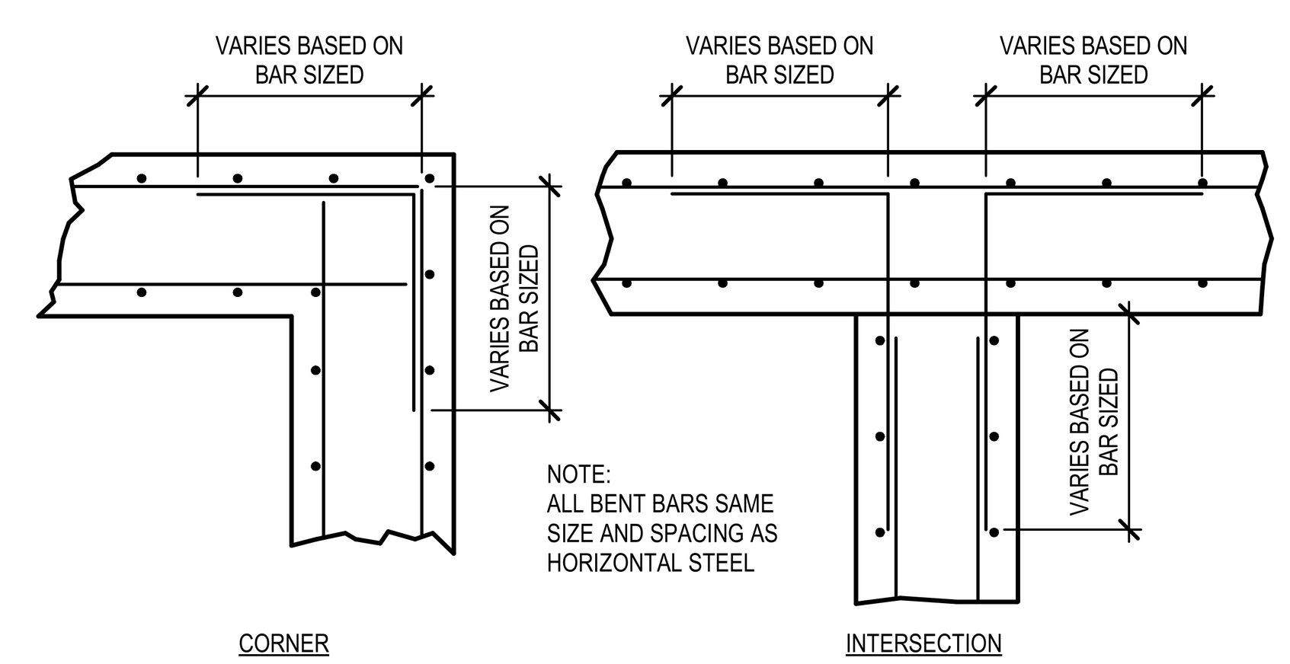


4 FOOTING STEP DETAIL
1/2" = 1'-0"

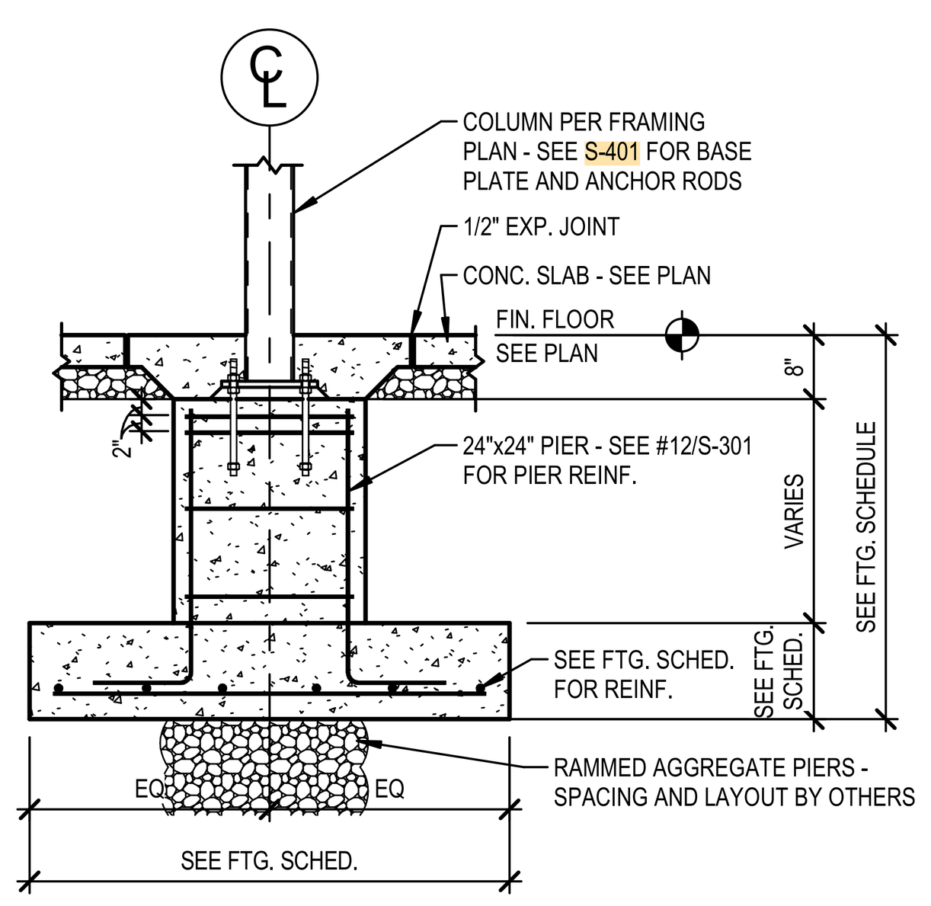


12 PIER PLAN
1/2" = 1'-0"

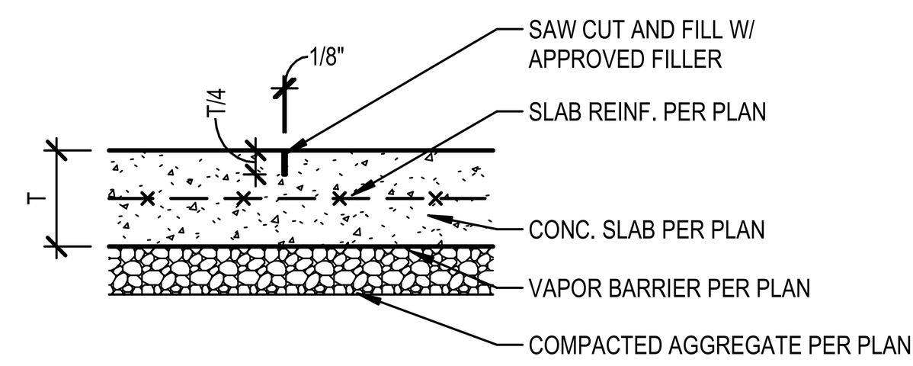




3 CONC. CORNER & INTERSECTION
1/2" = 1'-0"

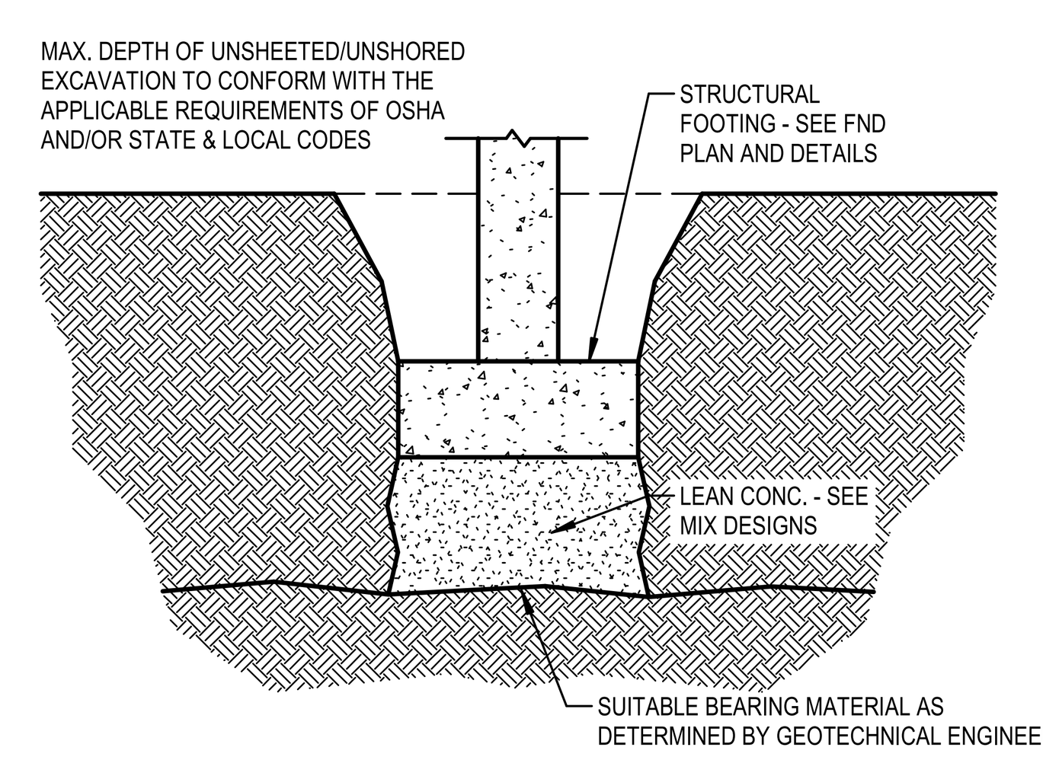


11 FOUNDATION DETAIL
1/2" = 1'-0"



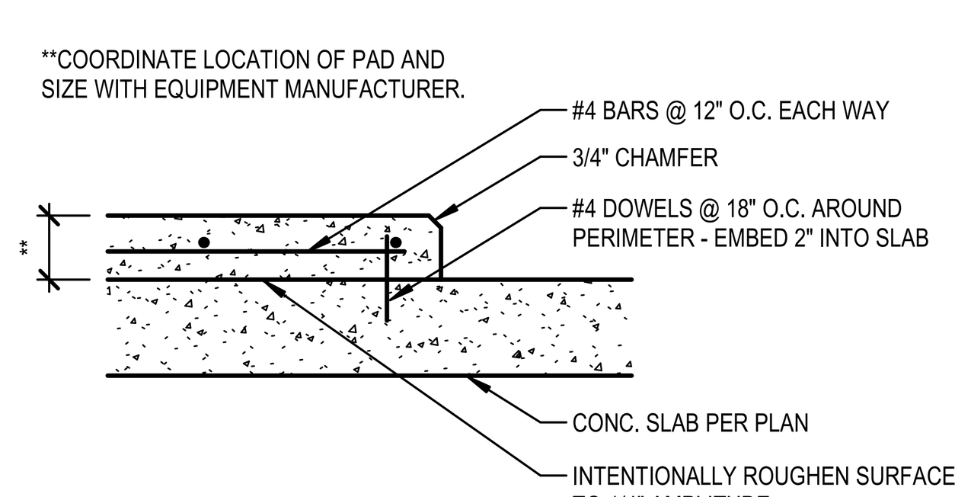
NOTES:
1. UNLESS SHOWN OR NOTED OTHERWISE, PROVIDE CONTROL OR CONSTRUCTION JOINTS IN SLABS-ON-GRADE AT A MAXIMUM SPACING OF 36 TIMES THE SLAB THICKNESS, IN INCHES.
2. PROVIDE JOINTS AT ALL COLUMN LOCATIONS.
3. LOCATE JOINTS TO ELIMINATE RE-ENTRANT CORNERS AND TO CREATE SQUARE OR RECTANGULAR SECTIONS WITH MAXIMUM LONG SIDE TO SHORT SIDE RATIO OF 1.5 TO 1.
4. DO NOT OVERCUT CONTROL JOINTS AT PERPENDICULAR CONTROL JOINTS. JOINTS MAY STOP UP TO 1" SHORT OF PERPENDICULAR CONTROL JOINTS.
5. GENERAL CONTRACTOR SHALL COORDINATE EXACT LOCATION OF CONTROL AND CONSTRUCTION JOINTS WITH ARCHITECTURAL FLOOR FINISHES TO ENSURE SLAB JOINTS DO NOT READ THROUGH.
6. UNLESS SPECIFICALLY NOTED ON THE DRAWINGS, CONTROL JOINTS ARE NOT PERMITTED FOR ELEVATED SLABS ON METAL DECK AND ELEVATED CONCRETE SLABS.

7 SAW JOINT (CONTROL JOINT) DTL.
1" = 1'-0"

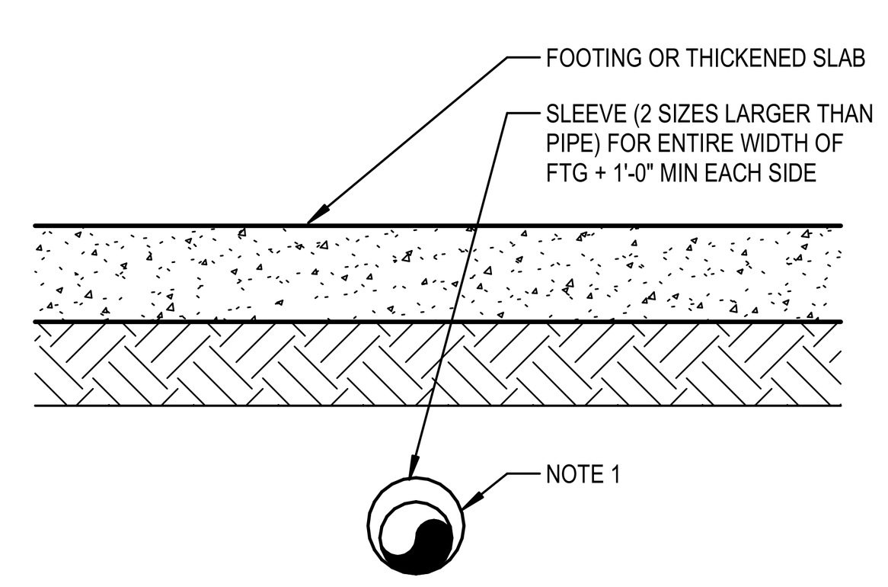


SEE SOILS REPORT AND NOTES ON S-001 FOR ADDITIONAL INFORMATION.

2 FOUNDATION DETAIL
1/2" = 1'-0"

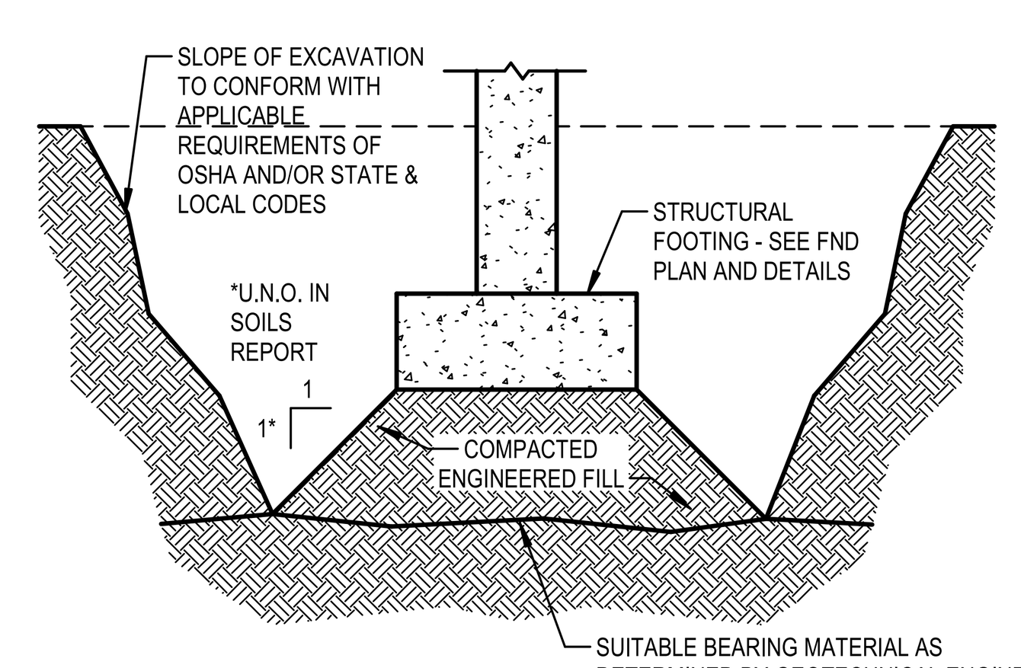


10 EQUIPMENT/HOUSEKEEPING PAD DTL.
1" = 1'-0"



NOTES:
1. FILL ANNULAR SPACES BETWEEN SLEEVES AND PIPES WITH A COMPRESSIBLE MATERIAL AS REQUIRED BY THE PLUMBING CODE.
2. PIPE MUST BE 90° TO WALL FTG.

6 FOUNDATION DETAIL
1 1/2" = 1'-0"



SEE SOILS REPORT AND NOTES ON S-001 FOR ADDITIONAL INFORMATION.

1 FOUNDATION DETAIL
1/2" = 1'-0"

SLAB ON GRADE FLATNESS / LEVELNESS SCHEDULE

SLAB CLASSIFICATION	OVERALL FF	OVERALL FL	MIN LOCAL FF	MIN LOCAL FL
CONVENTIONAL	20	15	15	10
MODERATELY FLAT	25	20	17	15
FLAT	35	25	24	17
VERY FLAT	45	35	30	24
SUPER FLAT	50	50	35	35

FLOOR TYPE OR LOCATION	SLAB CLASSIFICATION
FLOORS WITH THICK-SET TILE	CONVENTIONAL
EXPOSED UTILITY/MECHANICAL AREAS (U.N.O.)	MODERATELY FLAT
FLOORS WITH CARPET OR VCT FINISH (U.N.O.)	MODERATELY FLAT
FLOORS WITH THIN-SET FLOORING	FLAT
TILE >16" LONG DIMENSION	VERY FLAT
FLOORS WITH POLISHED CONCRETE FINISH	SUPER FLAT

CONTRACTOR SHALL REVIEW ALL FLOOR FINISH REQUIREMENTS AND PROVIDE CONCRETE SLAB SURFACE FINISH IN ACCORDANCE WITH THE REQUIREMENTS OF THE SPECIFIED FLOOR FINISH MATERIALS. WHERE TOLERANCES FOR THE FLOOR FINISH DIFFER FROM THIS SCHEDULE, THE MORE STRINGENT REQUIREMENTS SHALL APPLY.

CONCRETE REINFORCING BAR LAP SPLICE LENGTHS[1]

STRUCTURE		MIN. COVER	MIN. SPACING[3]	BAR SIZE								
ELEMENT	BARS[2]			#3	#4	#5	#6	#7	#8	#9	#10	#11
COLUMN FOOTINGS	HORIZ. BARS	NOTE 7	N/A	DO NOT SPLICE BARS (U.N.O. ON PLANS)								
WALL FOOTINGS[4]	TRANSVERSE BARS	NOTE 7	N/A	DO NOT SPLICE BARS (U.N.O. ON PLANS)								
	LONGITUDINAL BARS	NOTE 7	6"	17"	23"	28"	34"	49"	56"	69"	85"	102"
MAT FOUNDATION[4]	HORIZ. BARS	NOTE 7	6"	17"	23"	28"	34"	49"	56"	69"	85"	102"
FOUNDATION WALLS[5]	HORIZ. BARS	NOTE 7	6"	15"	20"	24"	29"	42"	48"	60"	74"	89"
	VERTICAL BARS	NOTE 7	6"	12"	15"	19"	22"	33"	37"	46"	57"	68"
PIERS	VERTICAL BARS	2"	4"	12"	15"	19"	22"	37"	47"	70"	79"	87"
SLAB ON GRADE	HORIZ. BARS	1"	3"	12"	15"	22"	31"	50"	62"	NA	NA	NA
SLAB ON DECK	HORIZ. BARS	3/4"	3"	12"	19"	28"	37"	60"	74"	NA	NA	NA

NOTES:
1. TABULATED VALUES ASSUME:
   - CONCRETE COMPRESSIVE STRENGTH AS SPECIFIED IN THE CONCRETE DESIGN MIX SCHEDULE.
   - NORMAL-WEIGHT CONCRETE.
   - UNCOATED REINFORCEMENT CONFORMING TO ASTM A615 GRADE 60.
2. TOP BARS REFER TO HORIZ. LAP SPLICES OF BARS WITH MORE THAN 12 INCHES OF CONCRETE CAST BELOW.
3. IN ADDITION, MINIMUM CLEAR SPACING BETWEEN ANY BARS SHALL NOT BE LESS 1".
4. LAP SPLICES ARE BASED ON AN ASSUMED CLEAR COVER OF 2" ABOVE A TOP REINFORCING MAT.
5. PERIMETER FOUNDATION WALLS RETAINING LESS THAN 12" OF SOIL.
6. ALL SPLICES ARE TO BE CONTACT SPLICES.
7. BAR CLEAR COVER IS ASSUMED TO BE 1 1/2" FOR #5 AND SMALLER AND 2" FOR #6 AND LARGER.

CONCRETE COVER

LOCATION	MIN . COVER
CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	3"
CONCRETE EXPOSED TO EARTH OR WEATHER	
NO. 6 THROUGH NO. 18 BARS	2"
NO. 5 BAR, W31 OR D31 WIRE, AND SMALLER	1 1/2"
CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND	
SLABS, WALLS AND JOISTS	3/4"
BEAMS, COLUMNS (COVER TO TIES OR STIRRUPS)	1 1/2"

CONCRETE DESIGN MIX REQUIREMENTS[1]

LOCATION	28 DAY COMP. STRENGTH	TARGET SLUMP[2]	MAX. W/C RATIO	EXPOSURE CATEGORIES & CLASSES[3]				AIR CONTENT	FINISH
				F	S	W	C		
FOOTINGS	3500 PSI	4" (+/- 1")	0.55	F1	S0	W0	C0	5% +/- 1.5%	SCREED
WALLS / PIERS/ PILE CAPS	4500 PSI	3" (+/- 1")	0.45	F2	S0	W0	C0	6% +/- 1.5%	HAND RUBBED EXPOSED SURFACES
EXTERIOR CONC. WORK	4500 PSI	3" (+/- 1")	0.45	F3	S0	W0	C0	6% +/- 1.5%	BROOM - NON SKID
LEAN CONCRETE	2000 PSI	5" (+/- 1 1/2")	0.60	F0	S0	W0	C0	AS NEEDED	SCREED
INTERIOR SLAB-ON-GRADE	4000 PSI	3" (+/- 1")	0.45	F0	S0	W0	C0	AS NEEDED	STEEL TROWEL[4]
SLAB ON DECK	4000 PSI	3" (+/- 1")	0.45	F0	S0	W0	C0	AS NEEDED	STEEL TROWEL[4]

NOTES:
1. ALL CONCRETE MIXES ARE NORMAL WEIGHT UNLESS NOTED OTHERWISE.
2. TARGET SLUMP IS THE CONCRETE SLUMP WITHOUT ANY ADMIXTURES INCLUDED. TARGET SLUMP MAY BE INCREASED BY USING ADMIXTURES. REFER TO THE CONCRETE SPECIFICATION FOR ADDITIONAL INFORMATION.
3. EXPOSURE CRITERIA FOR MIX SUPPLIER'S USE.
4. GENERAL CONTRACTOR SHALL REVIEW ALL FLOOR FINISH REQUIREMENTS FOR THE PROJECT AND PROVIDE CONCRETE SLAB SURFACE FINISHES IN ACCORDANCE WITH THE REQUIREMENTS OF THE SPECIFIED FLOOR FINISH MATERIALS.

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Key Plan:

THE LANDING 3.0

NEW CONSTRUCTION
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REVISION

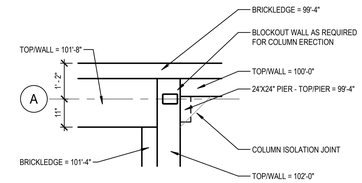
No.	Date	Revision

DRAWING CONTENTS:
FOUNDATION DETAILS

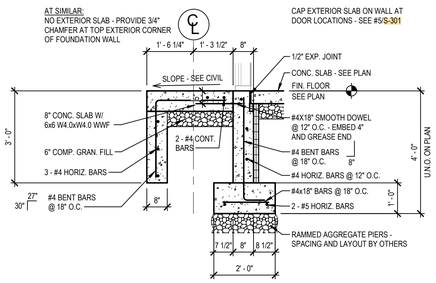
ISSUE DATE: 09/13/2024
PROJECT NO. 23029

DRAWING NO.
S-301

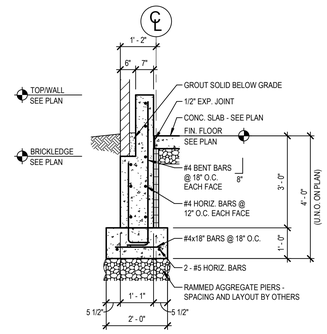
SHEET NOTES:
1. REFER TO ARCHITECTURAL SECTIONS AND DETAILS FOR FOUNDATION INSULATION REQUIREMENTS.



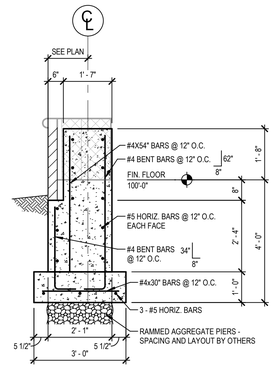
12 FOUNDATION PLAN DETAIL
1/2" = 1'-0"



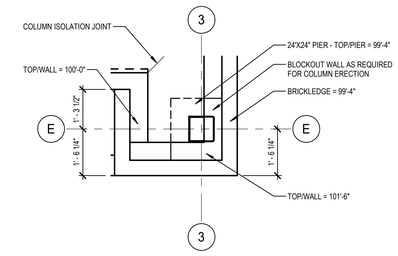
8 FOUNDATION DETAIL
1/2" = 1'-0"



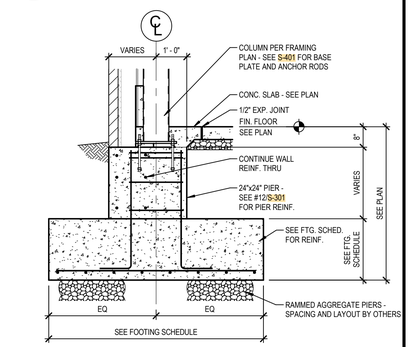
4 FOUNDATION DETAIL
1/2" = 1'-0"



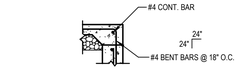
11 FOUNDATION DETAIL
1/2" = 1'-0"



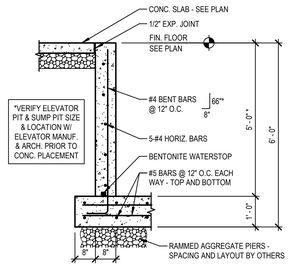
7 FOUNDATION PLAN DETAIL
1/2" = 1'-0"



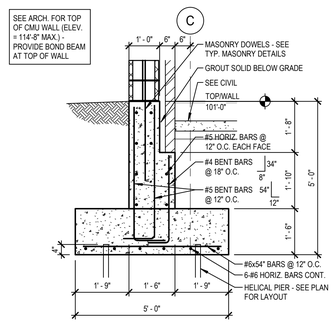
3 FOUNDATION DETAIL
1/2" = 1'-0"



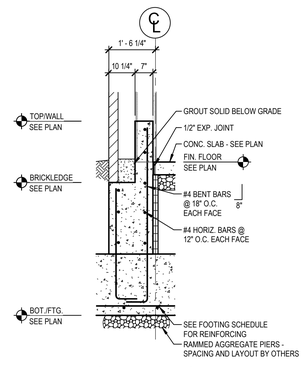
CAP SLAB OVER WALL @ DOORWAY



10 ELEVATOR PIT DETAIL
1/2" = 1'-0"



6 FOUNDATION DETAIL
1/2" = 1'-0"



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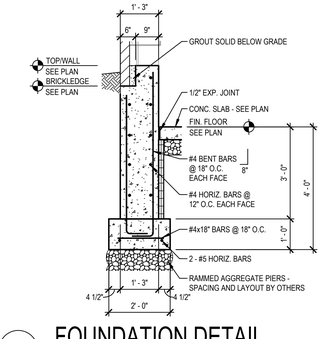
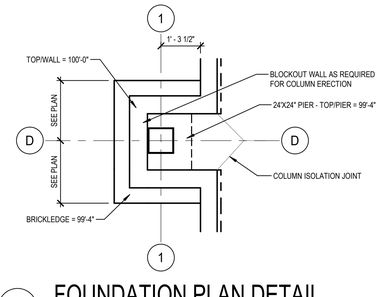
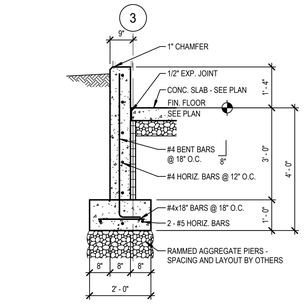
1/2" = 1'-0"



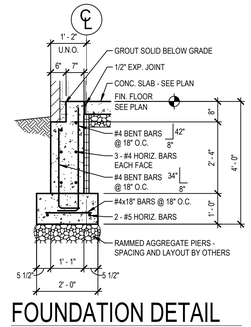
13 FOUNDATION DETAIL
1/2" = 1'-0"



9 FOUNDATION PLAN DETAIL
1/2" = 1'-0"



5 FOUNDATION DETAIL
1/2" = 1'-0"



1 FOUNDATION DETAIL
1/2" = 1'-0"

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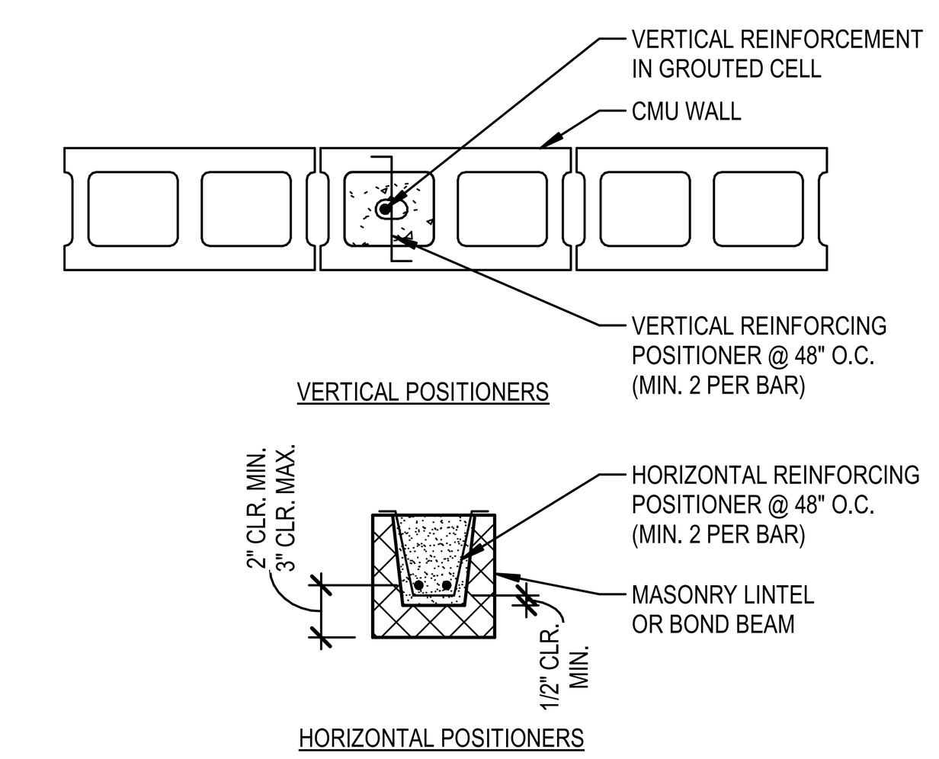
REVISION		
No.	Date	Revision

DRAWING CONTENTS:
FOUNDATION DETAILS

ISSUE DATE:	PROJECT NO.
09/13/2024	23029

DRAWING NO.
S-302

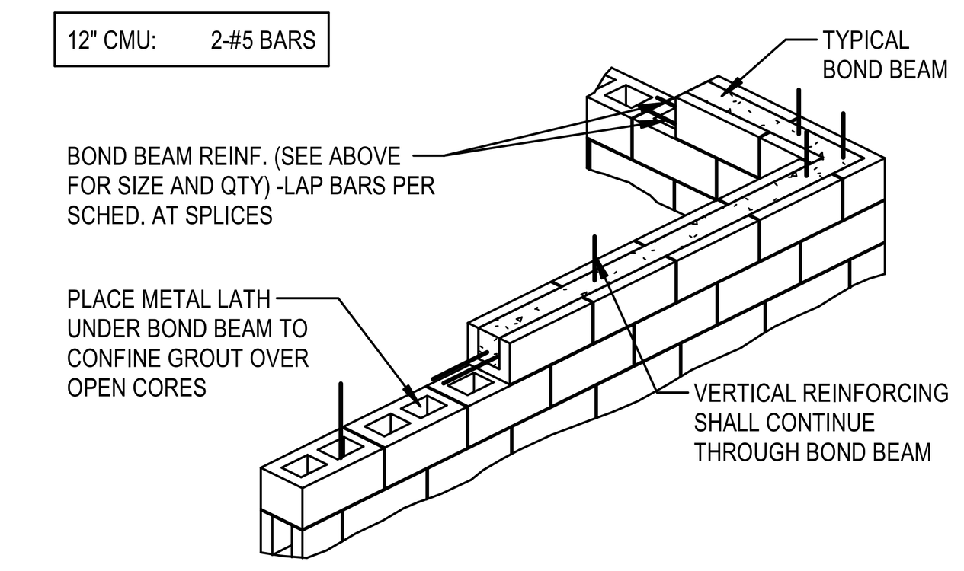
12" CMU: 2-#5 BARS



4 CMU REINF. POSITIONERS

1" = 1'-0"

12" CMU: 2-#5 BARS

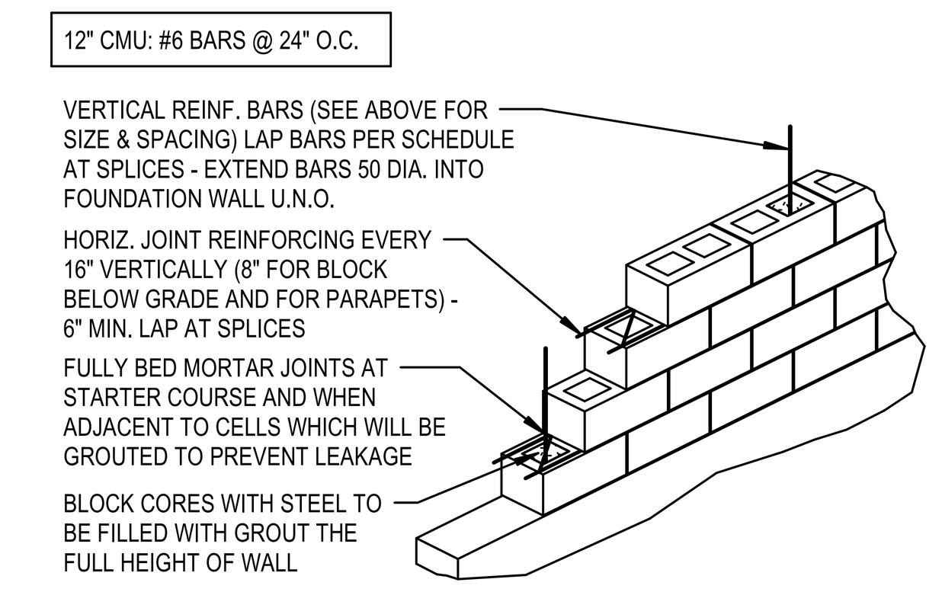


BOND BEAMS SHALL BE PLACED AT BEARING LOCATIONS (FLOOR(S) AND ROOF) AND AT THE TOP OF WALLS

3 TYP. CMU BOND BEAM

1/2" = 1'-0"

12" CMU: #6 BARS @ 24" O.C.



GROUT SHALL BE CONSOLIDATED AND RECONSOLIDATED USING A MECHANICAL VIBRATOR.

2 TYP. CMU WALL REINF.

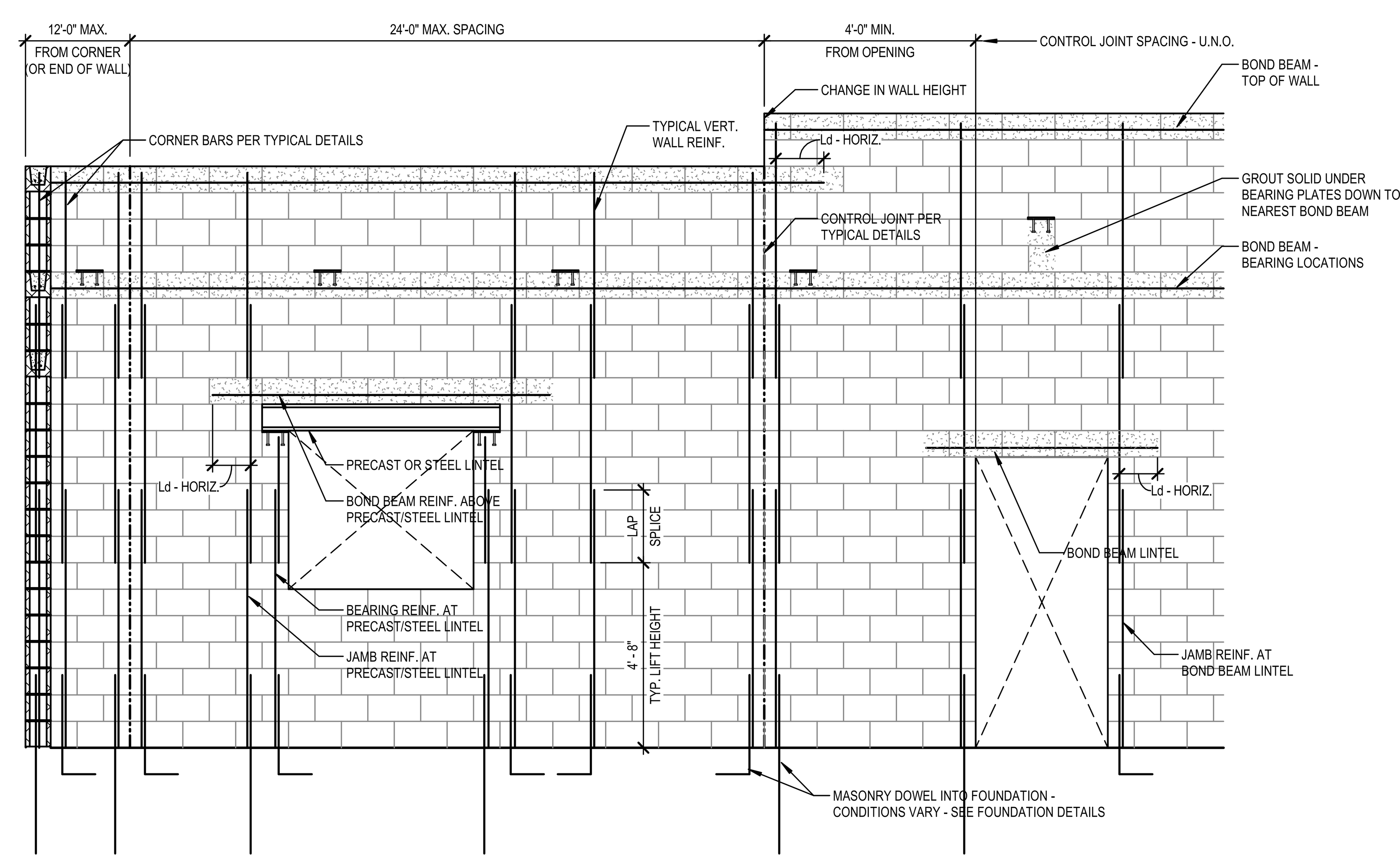
1/2" = 1'-0"

CMU REINFORCING LAP/DEVELOPMENT LENGTHS (Ld)					
BAR SIZE	HORIZ. BARS (NOTE 1)	VERTICAL BARS (NOTE 2)			
		6" CMU	8" CMU	10" CMU	12" CMU
#4	22"	20"	14"	12"	12"
#5	35"	33"	22"	17"	14"
#6	64"	64"	43"	32"	26"
#7	84"	--	61"	45"	36"
#8	96"	--	96"	70"	56"

NOTES
1. HORIZONTAL BAR LAP/DEVELOPMENT LENGTHS ARE BASED ON A MINIMUM CLEAR COVER OF 2" AND A MINIMUM CLEAR BAR SPACING OF 2".
2. VERTICAL BARS ARE BASED ON A SINGLE BAR PLACED WITHIN ONE BAR DIAMETER OF THE CENTER OF THE CMU CORE. FOR MULTIPLE VERTICAL BARS PLACED IN A SINGLE CORE, LAP LENGTHS SHALL BE THE SAME AS FOR HORIZONTAL BARS.

1 CMU REINF. BAR SCHEDULE

1/8" = 1'-0"



NOTES:
1. FOR OPENINGS THAT INTERRUPT 2 OR MORE REGULARLY SPACED VERTICAL BARS, PROVIDE ONE ADDITIONAL BAR AT EACH JAMB FOR EVERY 2 BARS INTERRUPTED BY THE OPENING. JAMB REINFORCING SHALL BE FULL HEIGHT OF WALL AND IS IN ADDITION TO THE NORMAL VERTICAL REINFORCING. WHERE MULTIPLE VERTICAL BARS ARE REQUIRED, BARS ARE TO BE PLACED IN SEPARATE, ADJACENT CELLS. AT A MINIMUM PROVIDE ONE JAMB BAR EACH SIDE OF AN OPENING. JAMB REINFORCING REQUIRED AT ALL OPENINGS GREATER THAN 16" WIDE OR WHERE NORMALLY SPACED VERTICAL BARS ARE INTERRUPTED.
2. SEE ARCHITECTURAL DRAWINGS FOR WALL OPENINGS NOT SHOWN ON STRUCTURAL DRAWINGS.
3. PROVIDE CLEANOUT AT BOTTOM COURSE FOR GROUT POURS GREATER THAN 5'-0" HIGH.

5 CMU WALL SCHEMATIC LAYOUT

3/8" = 1'-0"

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09.13.2024
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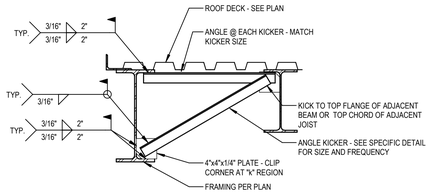
REVISION		
No.	Date	Revision

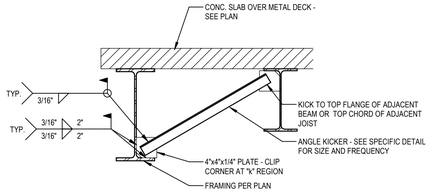
DRAWING CONTENTS:
MASONRY DETAILS

ISSUE DATE: 09/13/2024
PROJECT NO. 23029

DRAWING NO.
S-303



KICK TO ADJACENT FRAMING



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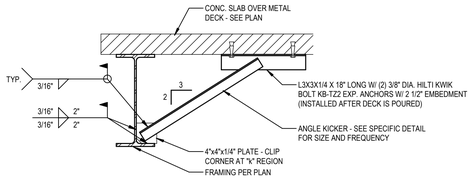
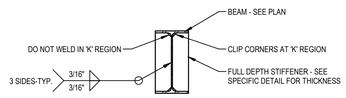
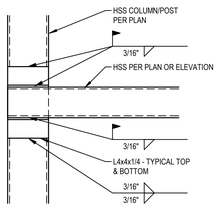


KICK TO FLOOR SLAB
(TYP. U.N.O.)

9 TYPICAL ANGLE KICKER
1" = 1'-0"

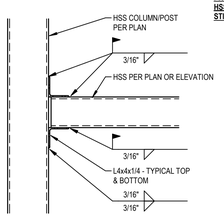


8 TYPICAL BEAM STIFFENER
1" = 1'-0"



CONNECTION TO FACE OF COLUMN

PROVIDE STIFFENED ANGLES WHEN HSS SUPPORTS BRICK - (2) 1/4" STIFFENERS SPACED AT 4" O.C.



CONNECTION TO SIDE OF COLUMN

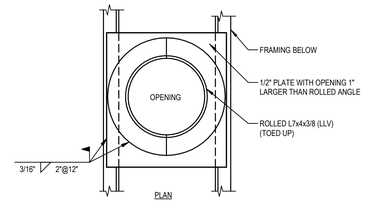
7 TYPICAL HSS TO HSS CONN.
1" = 1'-0"

SLAB ON METAL DECK FLATNESS SCHEDULE		
SLAB CLASSIFICATION	OVERALL FF	MIN LOCAL FF
CONVENTIONAL	20	15
MODERATELY FLAT	25	17
FLAT	35	24
VERY FLAT	45	30
SUPER FLAT	50	35

FLOOR TYPE / LOCATION	SLAB CLASSIFICATION
FLOORS WITH THICK-SET TILE	CONVENTIONAL
AREAS WITH RAISED FLOOR SYSTEMS	CONVENTIONAL
EXPOSED UTILITY/MECHANICAL AREAS (U.N.O.)	MODERATELY FLAT
FLOORS WITH CARPET, VCT FINISH, U.N.O.	MODERATELY FLAT
FLOORS WITH THIN-SET FLOORING	FLAT
TILE >16" LONG DIMENSION	VERY FLAT

NOTES:
1. GENERAL CONTRACTOR SHALL REVIEW ALL FLOOR FINISH REQUIREMENTS FOR THE PROJECT AND PROVIDE CONCRETE SLAB SURFACE FINISHES IN ACCORDANCE WITH THE REQUIREMENTS OF THE SPECIFIED FLOOR FINISH MATERIALS. WHERE TOLERANCES FOR THE FLOOR FINISH MATERIALS DIFFER FROM THIS SCHEDULE, THE MORE STRINGENT REQUIREMENTS SHALL APPLY.

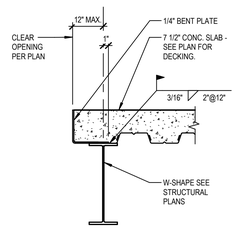
10 SOMD FLATNESS SCHEDULE
1/8" = 1'-0"



PLAN

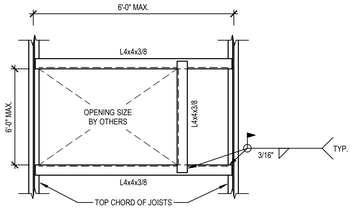
ROUND OPENING-
12" AND LARGER

ROUND OPENINGS UNDER 12" MAY BE CORE DRILLED



BEAM FRAME

6 TYPICAL FLOOR OPENING DETAIL
1" = 1'-0"



TOP VIEW

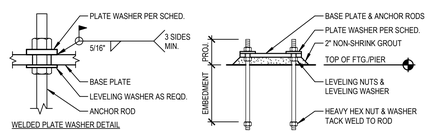
USE JOIST AS ONE SIDE OF OPENING WHEREVER POSSIBLE. IF UNABLE TO USE JOIST AS ONE SIDE OF OPENING, A SECOND L4x4x3/8 IS TO BE USED.

L3x3x1/4 MAY BE USED IN LIEU OF L4x4x3/8 FOR ANGLE FRAMES AT ROOF DRAINS & EXHAUST FANS UNDER 200 LBS.

5 TYPICAL ROOF OPENING DETAIL
1/2" = 1'-0"

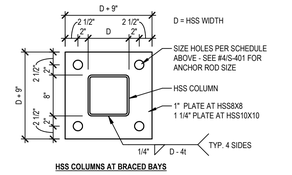
ANCHOR ROD SCHEDULE						
LOCATION	DIAMETER	EMBEDMENT	PROJECTION	MIN. WASHER SIZE	WASHER WELDED	MATERIAL
U.N.O.	3/4"	8"	6"	2"x2"x1/4"	NO	F1554 GR 55 W/ SUPPLEMENT S1
BRACED BAYS	1 1/4"	16"	6"	3"x3"x1/2"	YES - SEE DETAIL	F1554 GR 55 W/ SUPPLEMENT S1

NOTES:
1. FOR ANCHOR ROD PATTERNS AND QUANTITIES SEE #3/S-401
2. ANCHOR RODS EXPOSED TO WEATHER OR EARTH (IN FINAL CONSTRUCTED CONDITION) TO BE GALVANIZED.

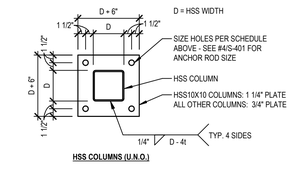


4 ANCHOR ROD DETAIL
1" = 1'-0"

BASE PLATE HOLE SCHEDULE	
ANCHOR ROD DIA.	HOLE DIA.
3/4"	1 1/16"
1"	1 13/16"
1 1/4"	2 1/16"



HSS COLUMNS AT BRACED BAYS



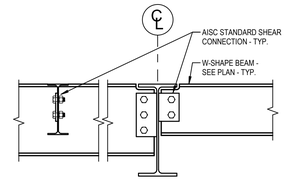
HSS COLUMNS (U.N.O.)

NOTES:
1. DO NOT WELD THE FULL PERIMETER OF W SHAPE OR HSS RECTANGULAR SECTIONS, UNLESS SPECIFICALLY NOTED. DO NOT WELD IN THE 'K' REGION OF A WF MEMBER. DO NOT WELD ALONG THE RADIUS OF AN HSS MEMBER AS NOTED.

3 BASE PLATE DETAILS
1" = 1'-0"

NOTES:

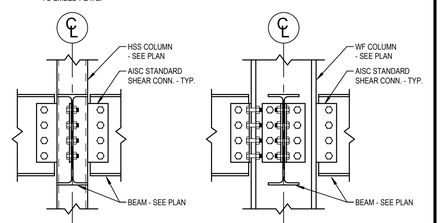
1. USE TYPICAL DETAIL FOR LOCATIONS WHERE A SPECIFIC CONNECTION DETAIL IS NOT CALLED OUT ON THE DRAWINGS.
2. FABRICATOR'S ENGINEER SHALL SIZE CONNECTIONS BASED ON REACTION SHOWN ON THE FRAMING PLANS. WHERE NO REACTION IS SHOWN ON THE FRAMING PLANS, CONNECTIONS SHALL BE DESIGNED FOR AT LEAST 50 PERCENT OF THE UNIFORMLY DISTRIBUTED LOAD CAPACITY OF THE MEMBER USING THE REACTION FROM THE ALLOWABLE LOAD OF THE BEAM AS TABULATED IN THE AISC STEEL CONSTRUCTION MANUAL (ASD LOADS).
3. ANGLE CONNECTIONS MAY EITHER BE SHOP WELDED OR SHOP BOLTED TO THE BEAM.
4. MINIMUM LENGTH OF ANGLES OR SHEAR PLATES SHALL BE GREATER THAN THE SUPPORTED BEAM T DIMENSION DIVIDED BY 2.



2 TYPICAL BEAM TO BEAM CONN.
1" = 1'-0"

NOTES:

1. USE TYPICAL DETAIL FOR LOCATIONS WHERE A SPECIFIC CONNECTION DETAIL IS NOT CALLED OUT ON THE DRAWINGS.
2. FABRICATOR'S ENGINEER SHALL SIZE CONNECTIONS BASED ON REACTION SHOWN ON THE FRAMING PLANS. WHERE NO REACTION IS SHOWN ON THE FRAMING PLANS, CONNECTIONS SHALL BE DESIGNED FOR AT LEAST 50 PERCENT OF THE UNIFORMLY DISTRIBUTED LOAD CAPACITY OF THE MEMBER USING THE REACTION FROM THE ALLOWABLE LOAD OF THE BEAM AS TABULATED IN THE AISC STEEL CONSTRUCTION MANUAL (ASD LOADS)
3. ANGLE CONNECTIONS MAY EITHER BE SHOP WELDED OR SHOP BOLTED TO THE BEAM.
4. FOR END PLATE OR DOUBLE ANGLE CONNECTIONS, OFFSET HOLES OR ADD ADDITIONAL ROWS OF BOLTS AS REQUIRED TO COMPLY WITH OSHA SAFETY BOLTING REQUIREMENTS.
5. MINIMUM LENGTH OF ANGLES OR SHEAR PLATES SHALL BE GREATER THAN THE SUPPORTED BEAM T DIMENSION DIVIDED BY 2.
6. USE SIMILAR DETAIL AT W-SHAPE BEAM CONNECTIONS TO EMBED PLATES, FIELD WELDING TO EMBED PLATE.



1 TYPICAL BEAM TO COL. CONN.
1" = 1'-0"

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DRAWING CONTENTS:
STRUCTURAL DETAILS

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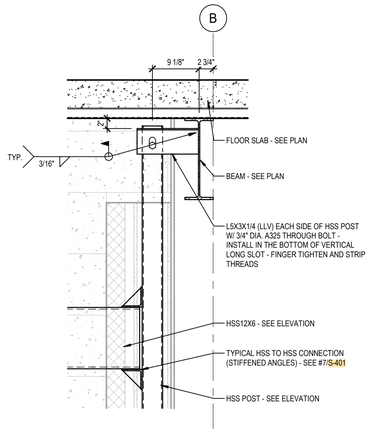
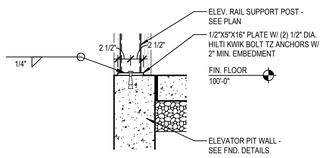
09/13/2024	23029

DRAWING NO.
S-401



16 DETAIL
1" = 1'-0"



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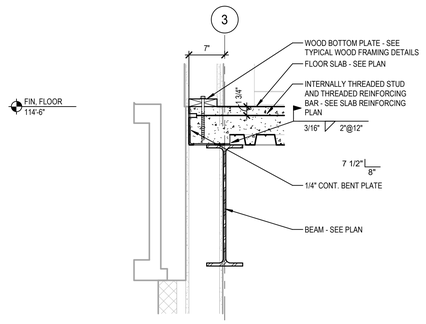

9 DETAIL
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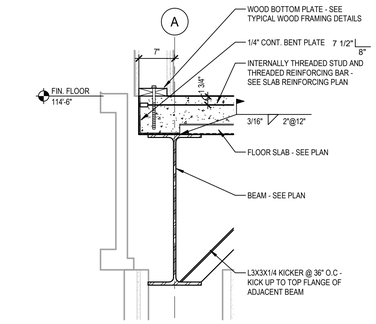

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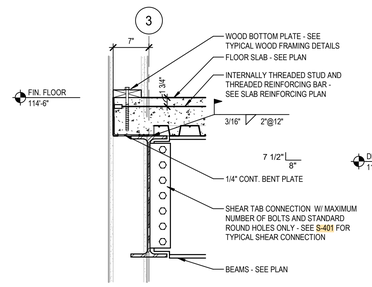

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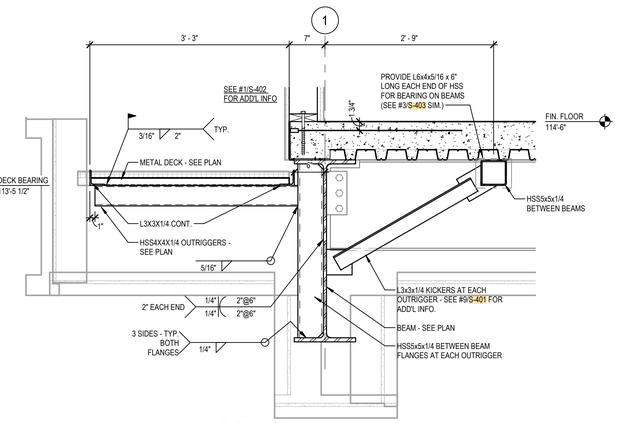


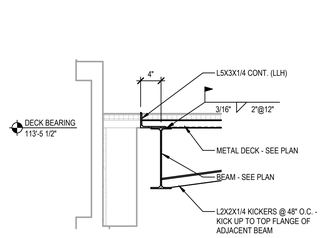
3 DETAIL
1" = 1'-0"

19 DETAIL
1" = 1'-0"

15 DETAIL
1" = 1'-0"

12 DETAIL
1" = 1'-0"

7 DETAIL
1" = 1'-0"



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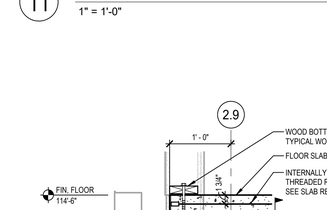

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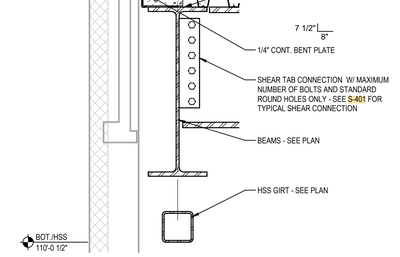

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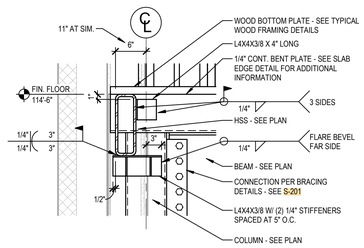

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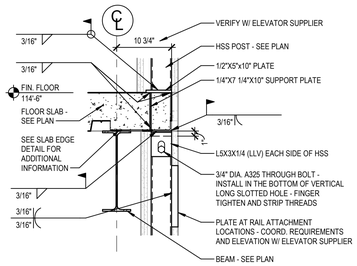

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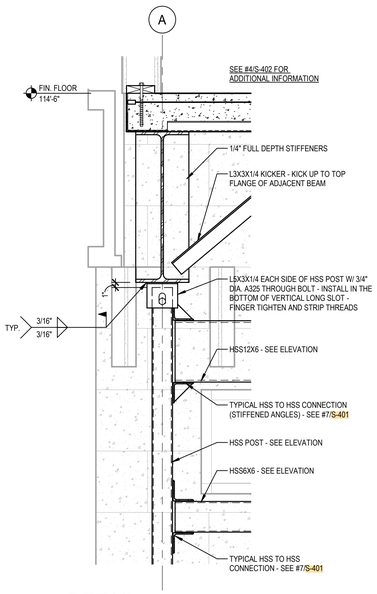

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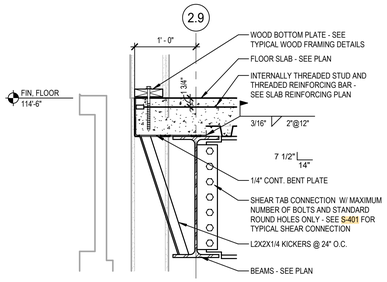

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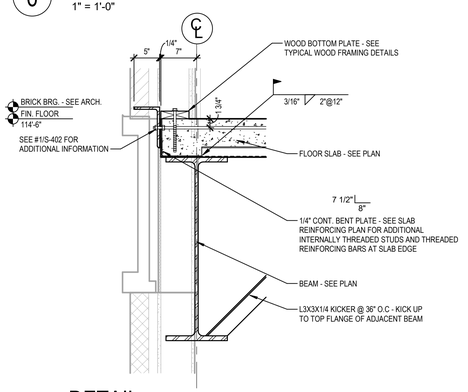

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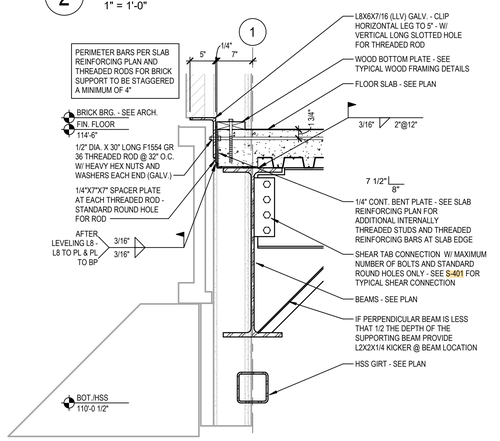

1 DETAIL
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ISSUE DATE:	PROJECT NO.
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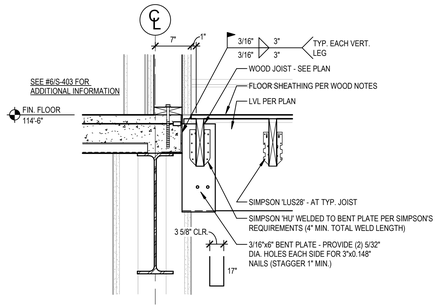
DRAWING NO.
S-402



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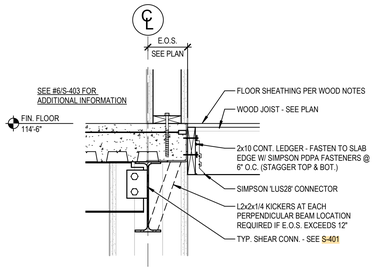

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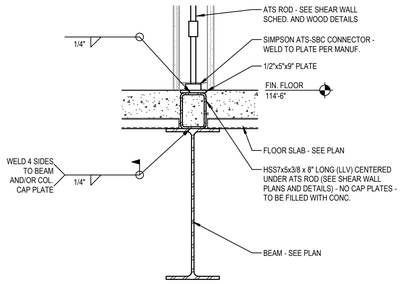

9 DETAIL
1" = 1'-0"

13 DETAIL
1" = 1'-0"

8 DETAIL
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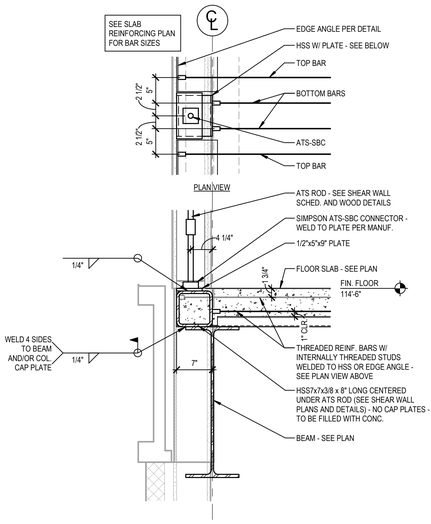

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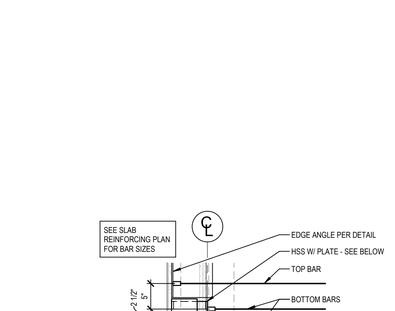

6 DETAIL
1" = 1'-0"

5 DETAIL
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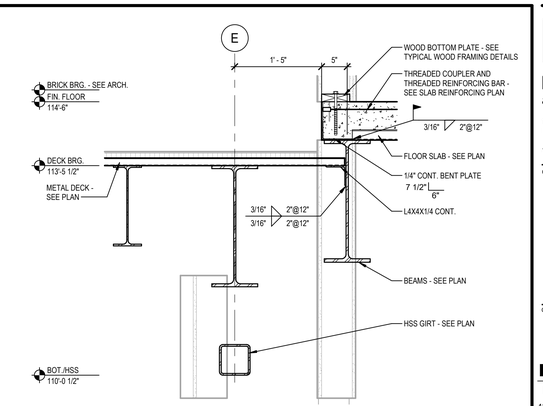

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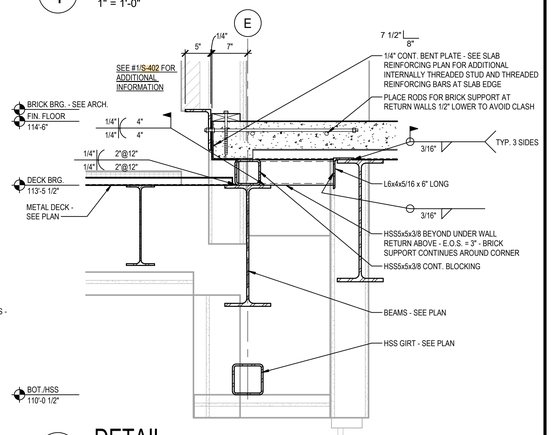

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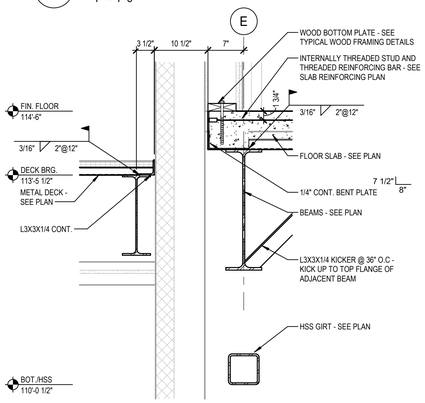

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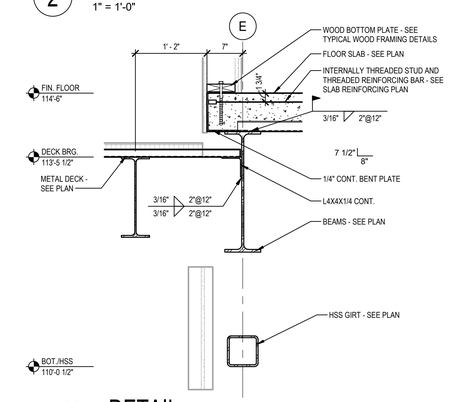

1 DETAIL
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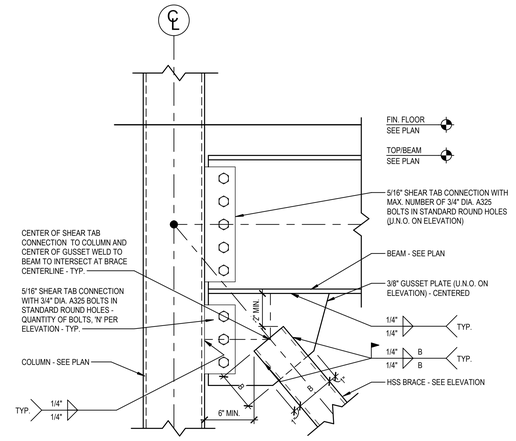
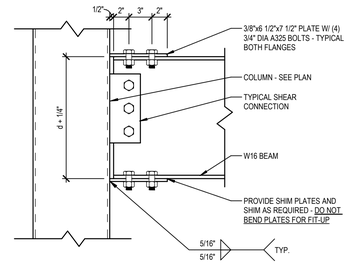
DRAWING NO.
S-403

BRACING DETAIL NOTES:
1. 'B' = HSS BRACE WIDTH - SEE ELEVATION FOR SIZE.
2. SLOT IN HSS BRACE AND BEAM TO BE 1/8" (MAX.) WIDER THAN GUSSET PLATE THICKNESS. BRACE TO BE CENTERED ON GUSSET WHEN WELDED.
3. FABRICATOR TO DETERMINE LENGTH OF SLOT IN HSS TO ACCOMMODATE FIELD FIT UP. FIELD MODIFICATIONS TO SLOT LENGTH WILL REQUIRE REINFORCING.

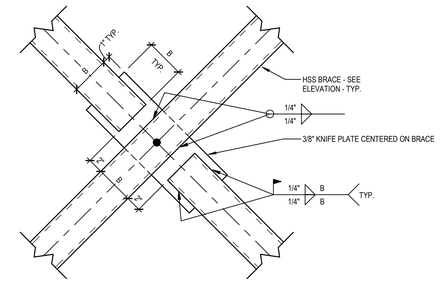


3 BRACING DETAIL
1 1/2" = 1'-0"

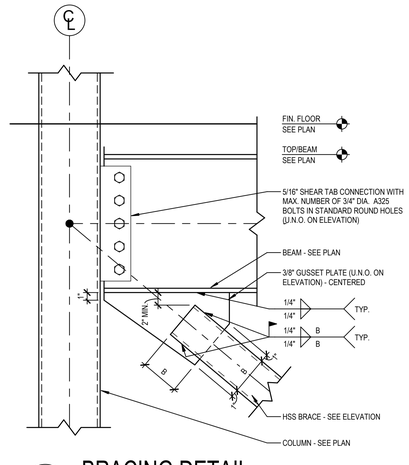
STANDARD ROUND HOLES ONLY FOR FLANGE CONNECTIONS



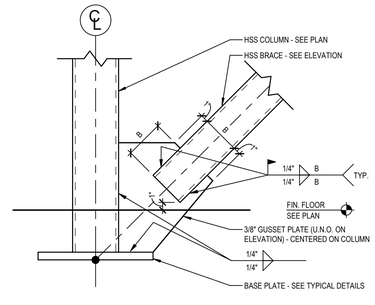
5 MOMENT CONNECTION
1 1/2" = 1'-0"



2 BRACING DETAIL
1 1/2" = 1'-0"



4 BRACING DETAIL
1 1/2" = 1'-0"



1 BRACING DETAIL
1 1/2" = 1'-0"

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Key Plan:

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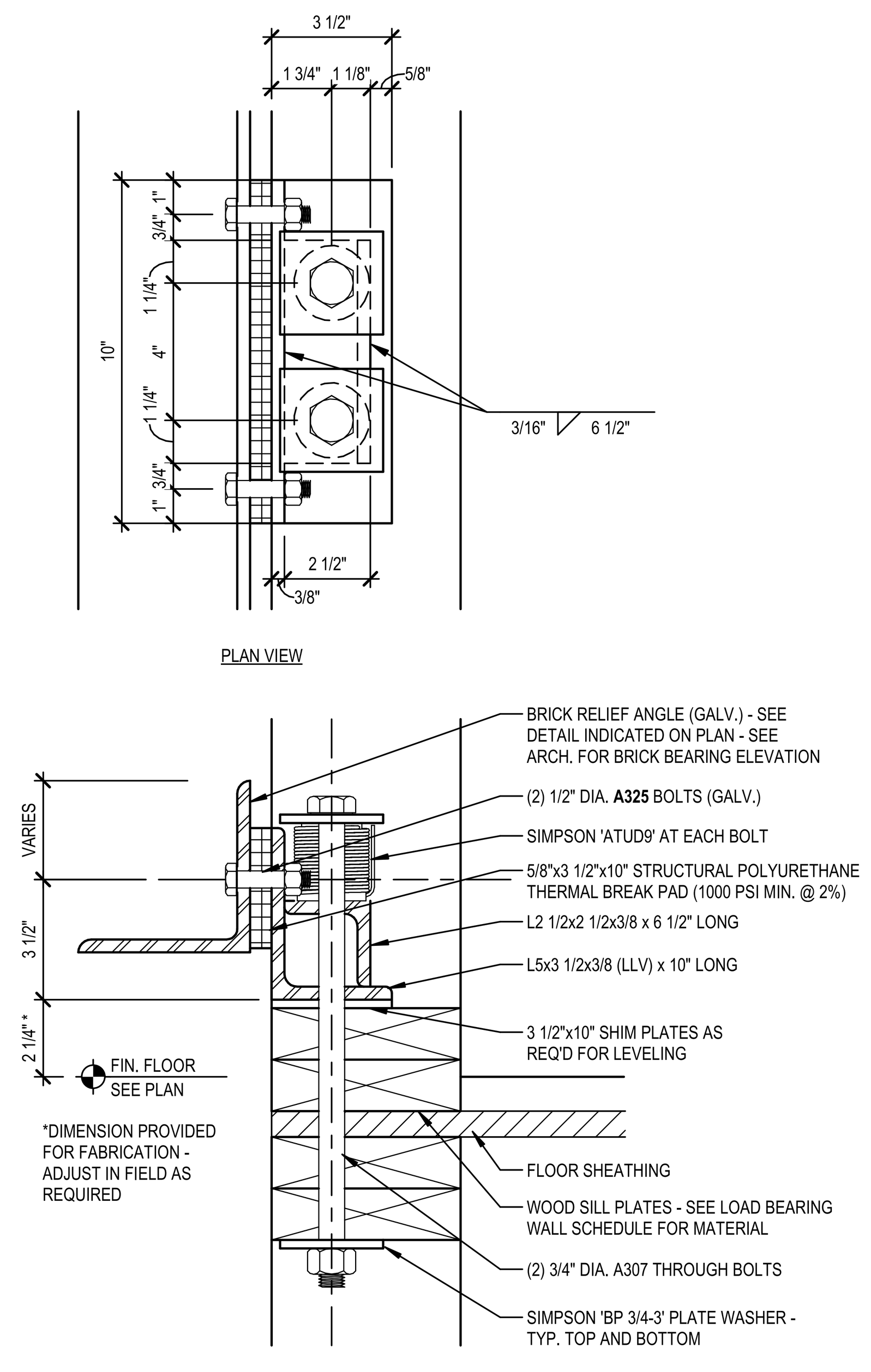
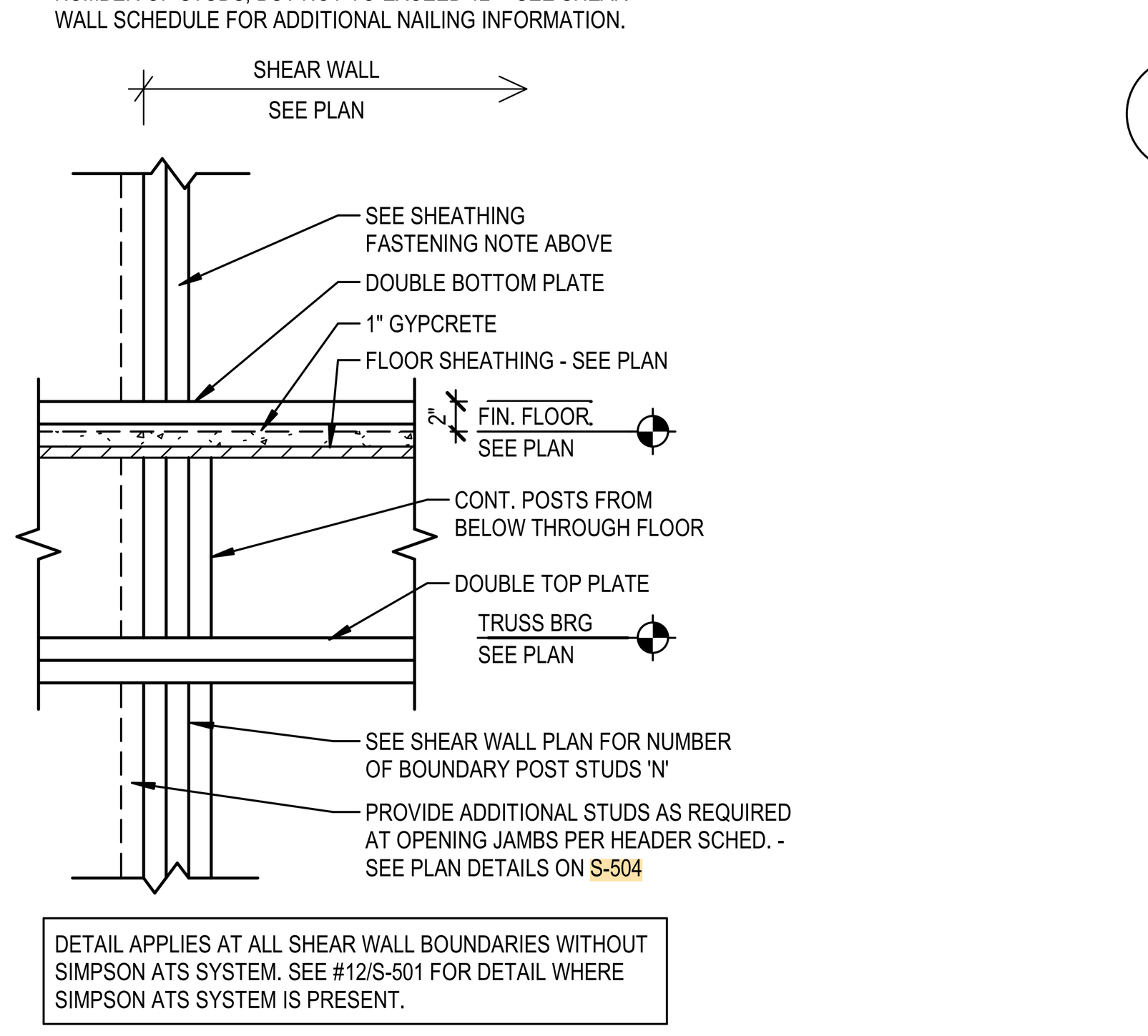
S-404



14 BRICK RELIEF SUPPORT
3" = 1'-0"

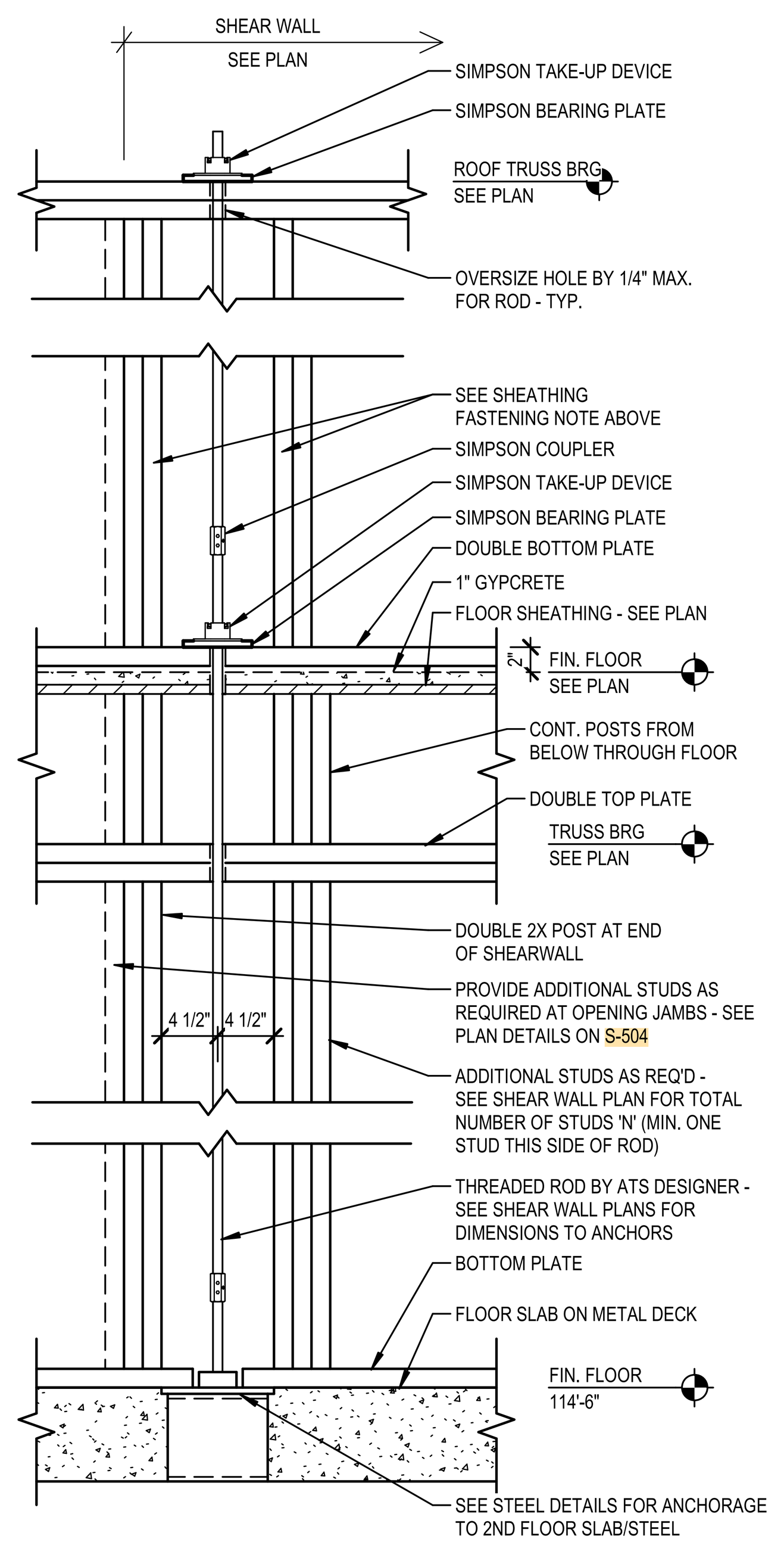
SHEATHING FASTENING TO BOUNDARY POSTS:
FASTEN SHEATHING TO EACH SHEAR WALL BOUNDARY STUD WITH NAIL SPACING EQUAL TO THE EDGE FASTENER SPACING INDICATED IN THE SHEAR WALL SCHEDULE MULTIPLIED BY THE NUMBER OF STUDS, BUT NOT TO EXCEED 12" - SEE SHEAR WALL SCHEDULE FOR ADDITIONAL NAILING INFORMATION.



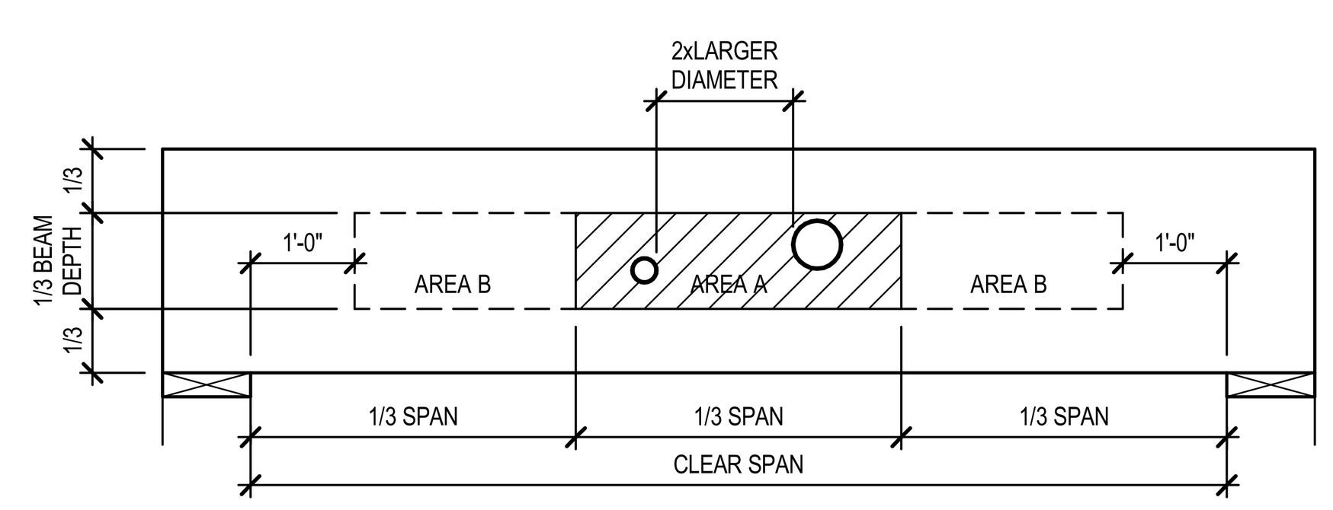
DETAIL APPLIES AT ALL SHEAR WALL BOUNDARIES WITHOUT SIMPSON ATS SYSTEM. SEE #12/S-501 FOR DETAIL WHERE SIMPSON ATS SYSTEM IS PRESENT.

13 SHEAR WALL BOUNDARY POST
1" = 1'-0"

SHEATHING FASTENING TO BOUNDARY POSTS:
FASTEN SHEATHING TO NEAREST STUD EACH SIDE OF ROD WITH NAIL SPACING EQUAL TO (2) TIMES THE EDGE FASTENER SPACING INDICATED IN THE SHEAR WALL SCHEDULE. FASTEN SHEATHING TO ALL REMAINING BOUNDARY POST STUDS WITH NAILS SPACED AT 12" O.C. - SEE SHEAR WALL SCHEDULE FOR ADDITIONAL NAILING INFORMATION.

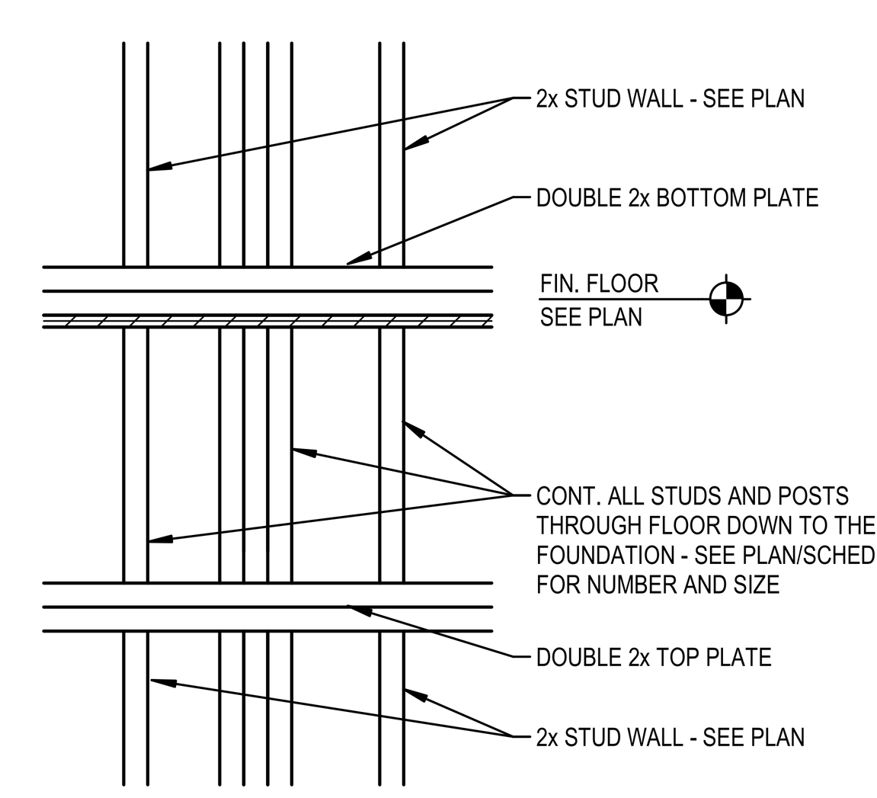


12 SIMPSON ATS DETAIL
1" = 1'-0"

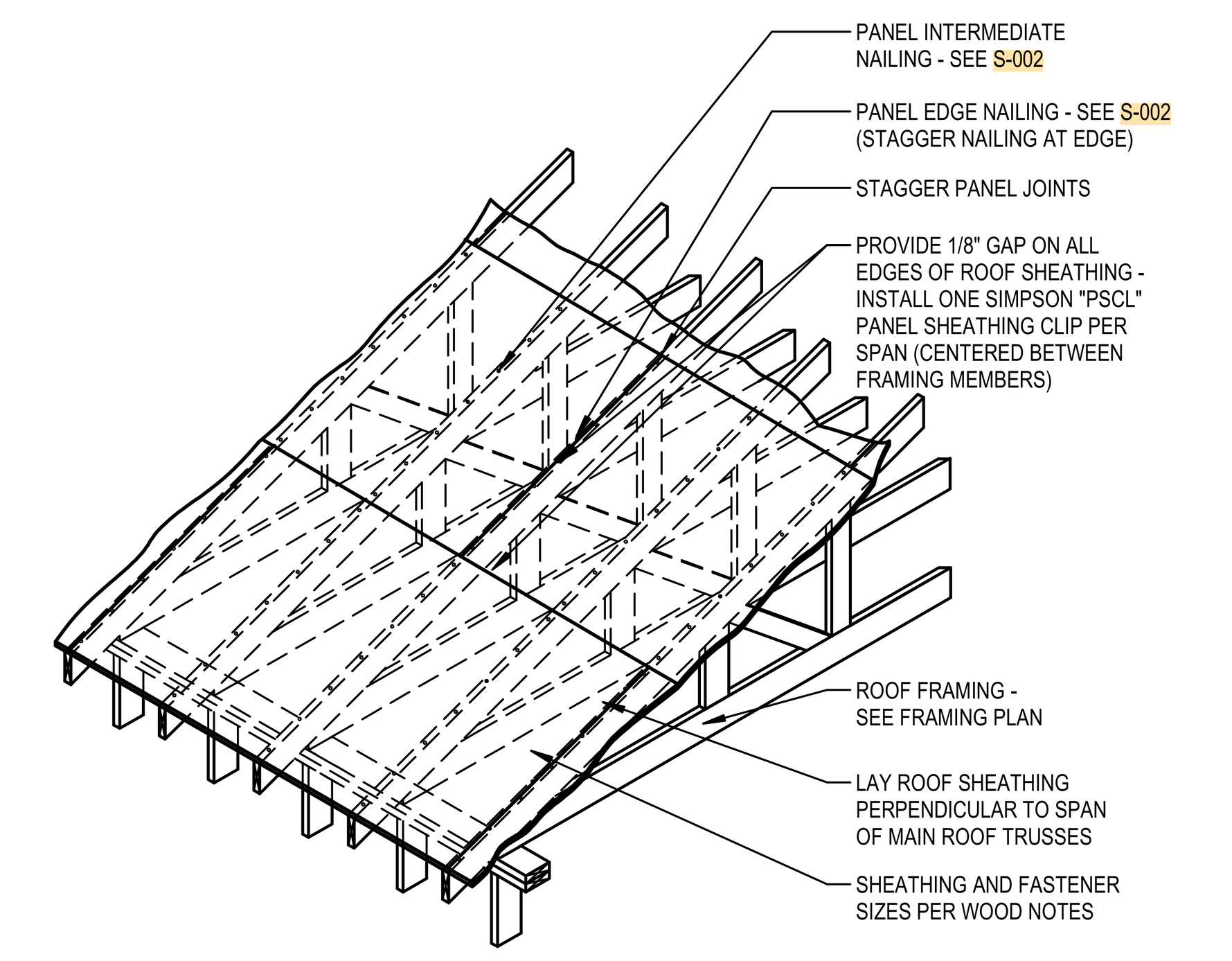


NOTES:
1. GUIDELINES ARE FOR UNIFORMLY LOADED, SIMPLE SPAN BEAMS ONLY. CONSULT ENGINEER OF RECORD IF HOLES ARE REQUIRED IN OTHER MEMBERS.
2. ROUND HOLES CAN BE DRILLED ANYWHERE IN "AREA A" PROVIDED THAT NO MORE THAN (4) HOLES ARE CUT AND THE MINIMUM SPACING REQUIREMENT IS MET.
3. MAXIMUM HOLE SIZE IS 1 1/2" FOR DEPTHS UP TO 9 1/4" AND 2" FOR DEPTHS GREATER THAN 9 1/4".
4. RECTANGULAR HOLES ARE NOT ALLOWED.
5. DO NOT DRILL HOLES IN CANTILEVERS WITHOUT PRIOR APPROVAL FROM ENGINEER OF RECORD.
6. VERTICAL HOLES ARE NOT ALLOWED.
7. UP TO (3) 3/4" HOLES MAY BE DRILLED IN "AREA B". THESE HOLE SHALL BE AT LEAST 12" APART. FOR BEAMS SHALLOWER THAN 9 1/4" LOCATE, HOLES AT MID DEPTH.
8. PROTECT PLUMBING HOLES FROM MOISTURE.
9. DO NOT NOTCH EDGES.

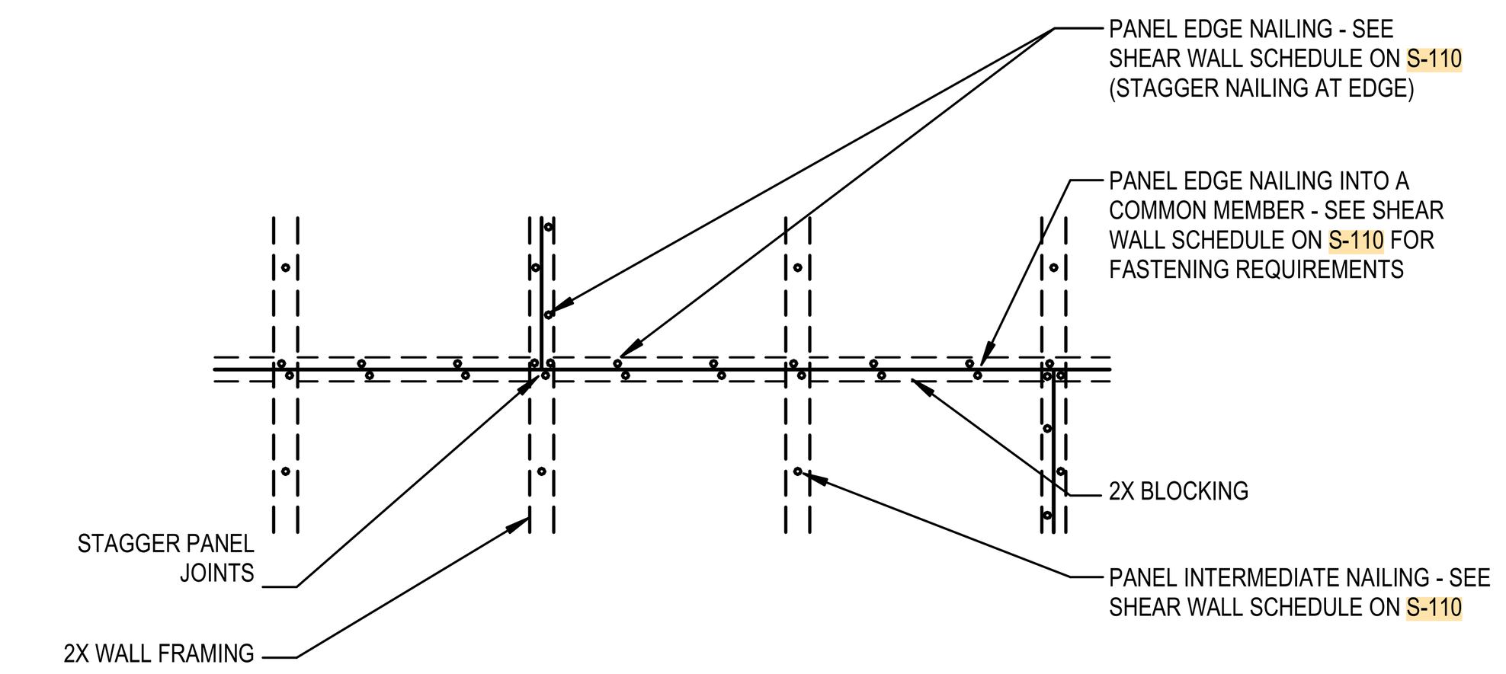
11 UNIFORM LOADED WOOD BM. ALLOW. HOLES
1" = 1'-0"



10 FRAMING DETAIL
1" = 1'-0"

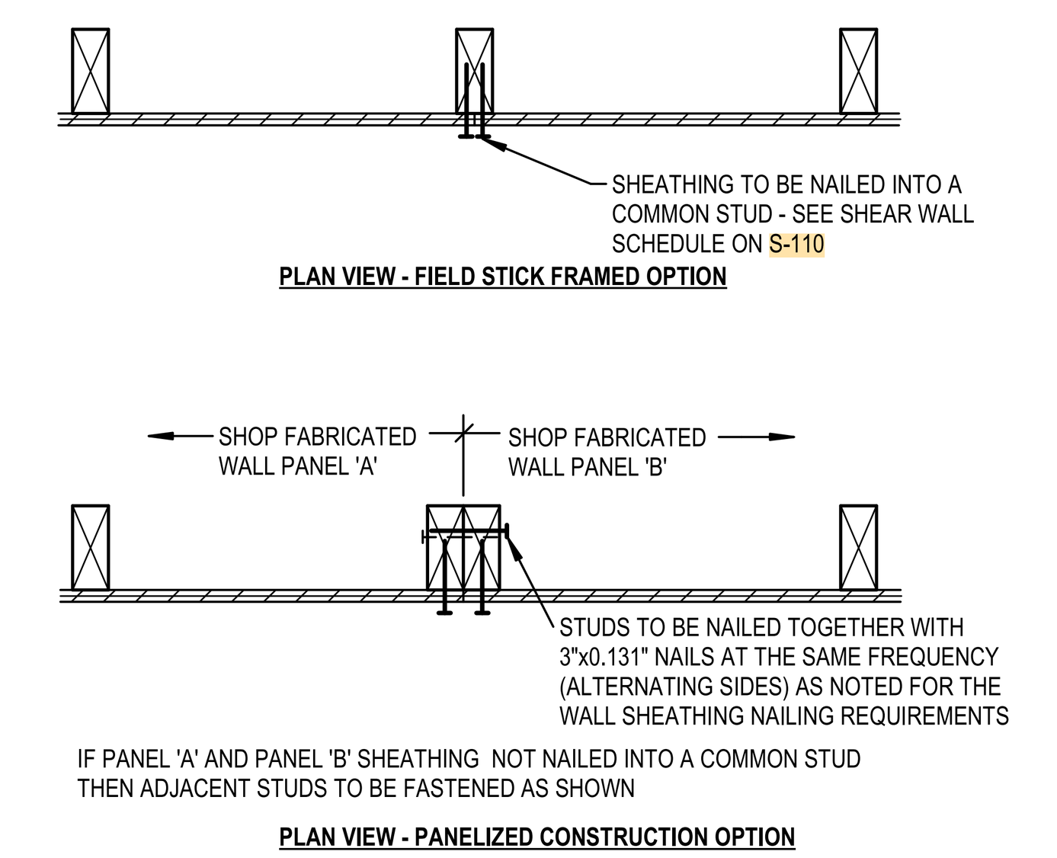


9 ROOF DIAPHRAGM NAILING
3/8" = 1'-0"



SEE SHEAR WALL SCHEDULE ON S-110 FOR LOCATIONS WHERE 2X BLOCKING IS REQUIRED

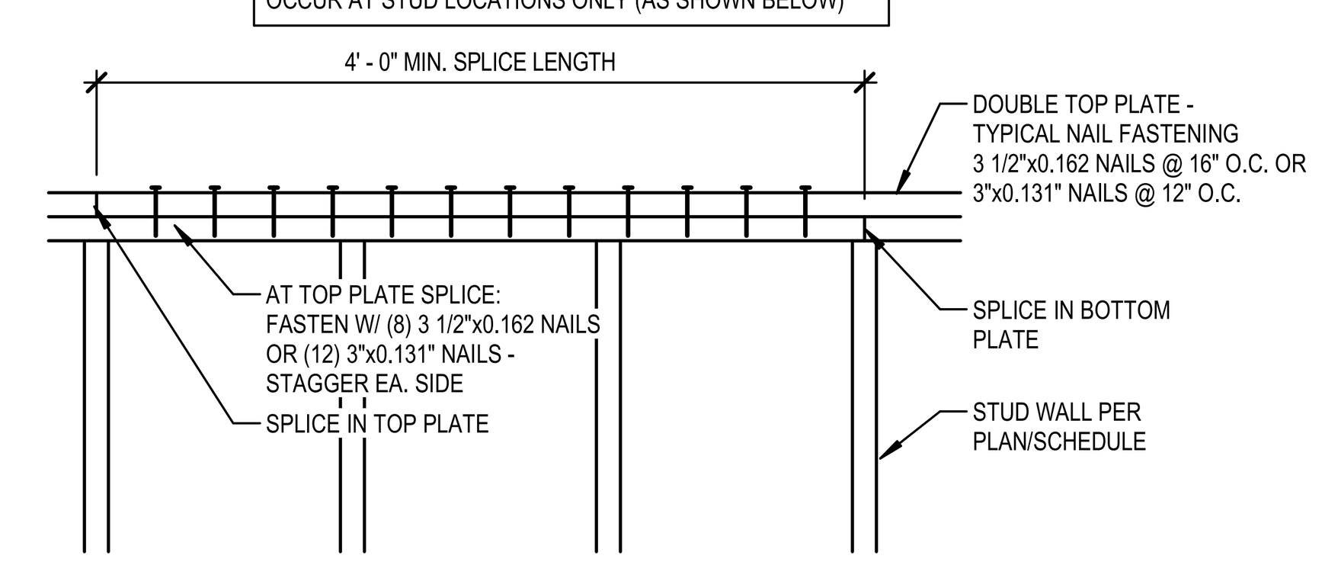
8 WALL BLOCKING DETAIL
1" = 1'-0"



NOTE: ALL WALLS HAVE DOUBLE TOP PLATES - SECOND PLATE SHALL BE FIELD APPLIED AND SHALL BE PLACED TO SPAN ACROSS WALL PANEL JOINTS

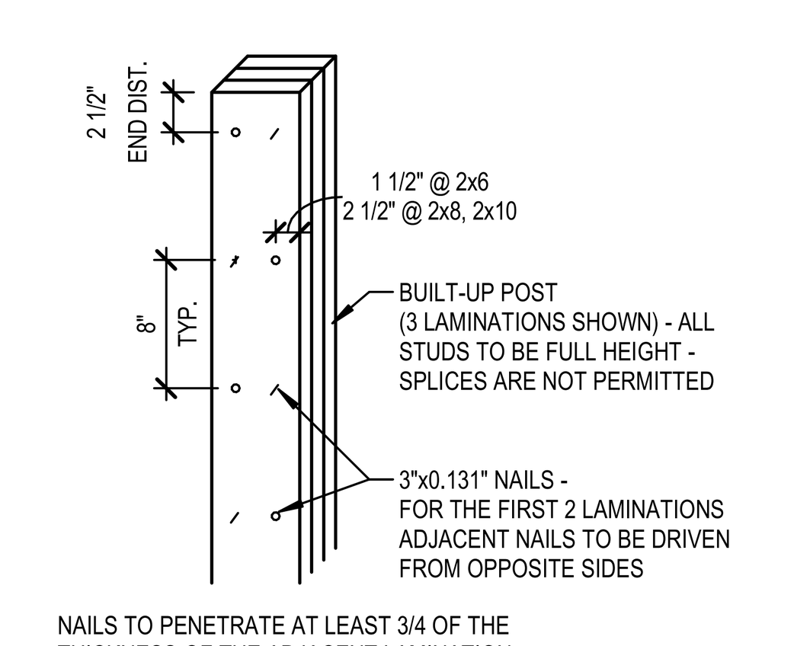
7 PANEL JOINT DETAIL
1 1/2" = 1'-0"

SPLICES IN ALL PLATES (THE TOP AND BOTTOM PLATES OF THE WALL TOP PLATE AND THE SILL PLATE(S))TO OCCUR AT STUD LOCATIONS ONLY (AS SHOWN BELOW)



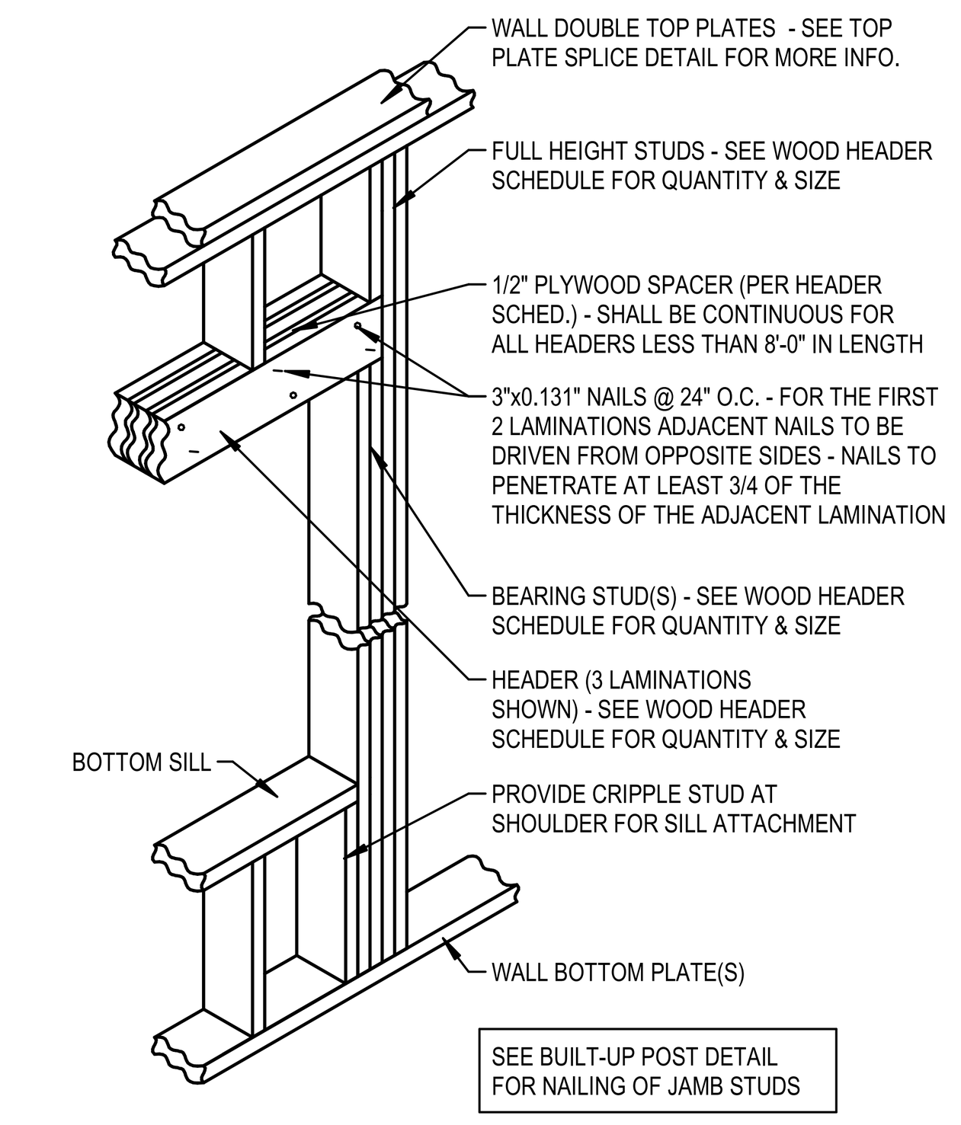
DETAIL APPLICABLE TO DOUBLE TOP PLATES AND SILL PLATES (SEE #1/S-501 FOR SILL PLATE ATTACHMENT TO FLOOR SLAB)

6 TOP PLATE SPLICE DTL.
1" = 1'-0"



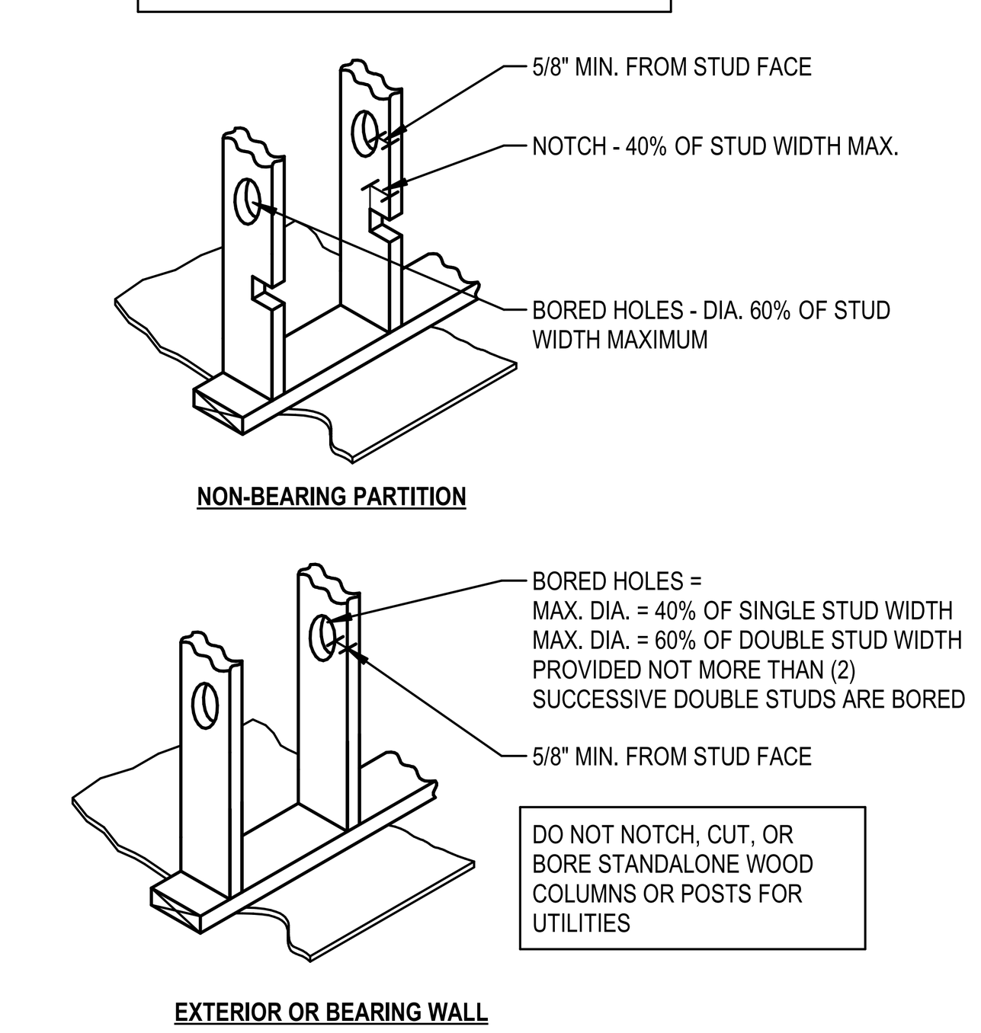
NAILS TO PENETRATE AT LEAST 3/4 OF THE THICKNESS OF THE ADJACENT LAMINATION

5 BUILT-UP COLUMN NAILING
1" = 1'-0"



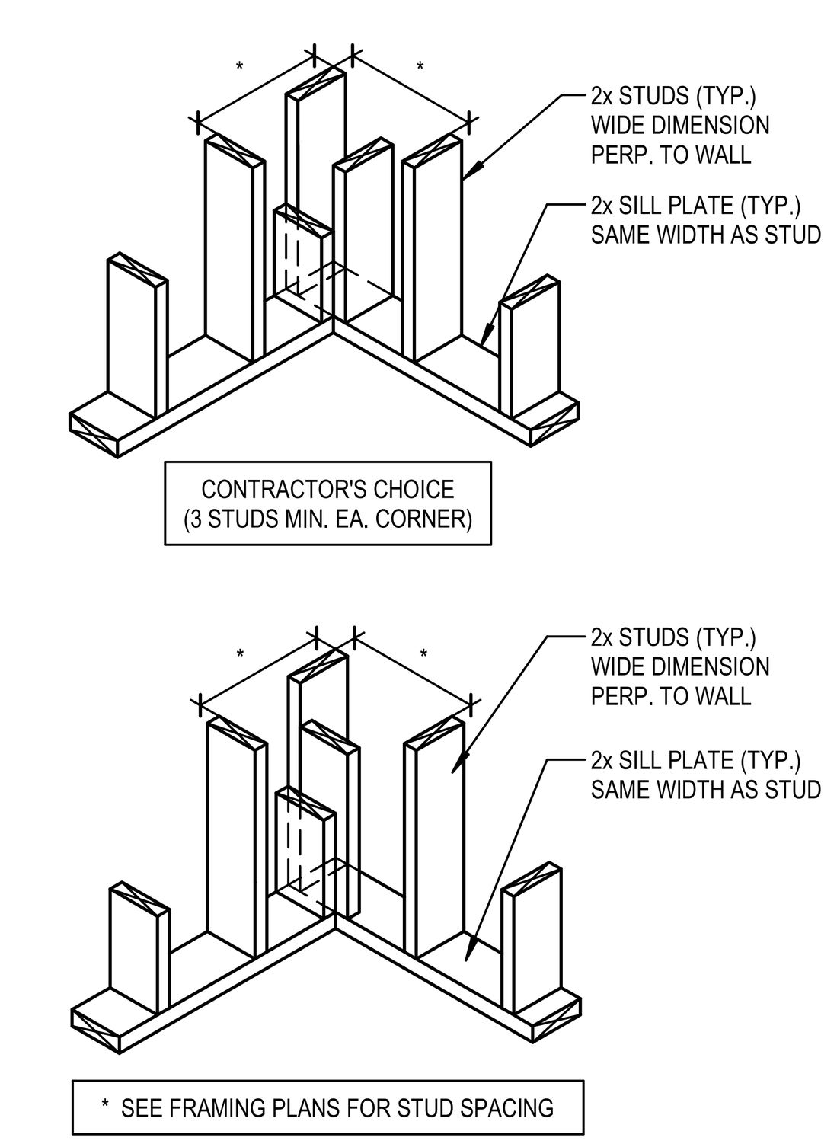
4 WOOD HEADER DETAIL
1" = 1'-0"

NOTE:
BORED HOLES SHALL NOT BE LOCATED AT THE SAME SECTION OF STUD AS A CUT OR NOTCH.



VERTICALLY OVERSIZE BORED HOLES AND NOTCHES TO ALLOW FOR VERTICAL SHRINKAGE OF WOOD STRUCTURE. ANTICIPATED SHRINKAGE PER LEVEL OF WOOD= 3/8"

3 STUD CUT, NOTCH, BORE DETAIL
1" = 1'-0"



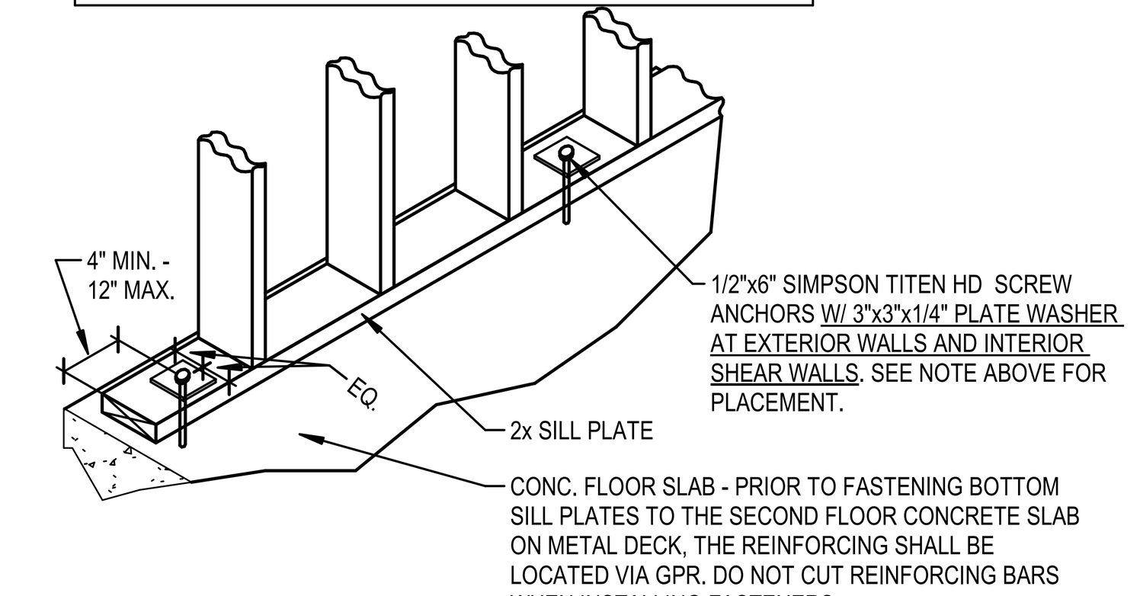
* SEE FRAMING PLANS FOR STUD SPACING

2 STUD CORNER DETAIL
1" = 1'-0"

PLACE 1/2" DIA. SILL ANCHORS AT 12" MAX. FROM END OF EACH SILL PLATE AND CORNERS. MAXIMUM SPACING OF ANCHORS SHALL BE
EXTERIOR WALLS,
INTERIOR SHEAR WALLS, & SEE SHEAR WALL SCHEDULE
INTERIOR BEARING WALLS 48" O.C. (U.N.O.)

(SEE FRAMING PLANS FOR BEARING AND SHEAR WALL LOCATIONS)

THERE SHALL BE A MINIMUM OF 2 SILL ANCHORS PER SILL PLATE. COORDINATE SILL PLATE LAYOUT WITH FRAMING CONTRACTOR FOR ACTUAL PLACEMENT OF ALL ANCHORS.



1 SILL ANCHOR DETAIL
1" = 1'-0"

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DRAWING CONTENTS:
WOOD DETAILS

ISSUE DATE: 09/13/2024
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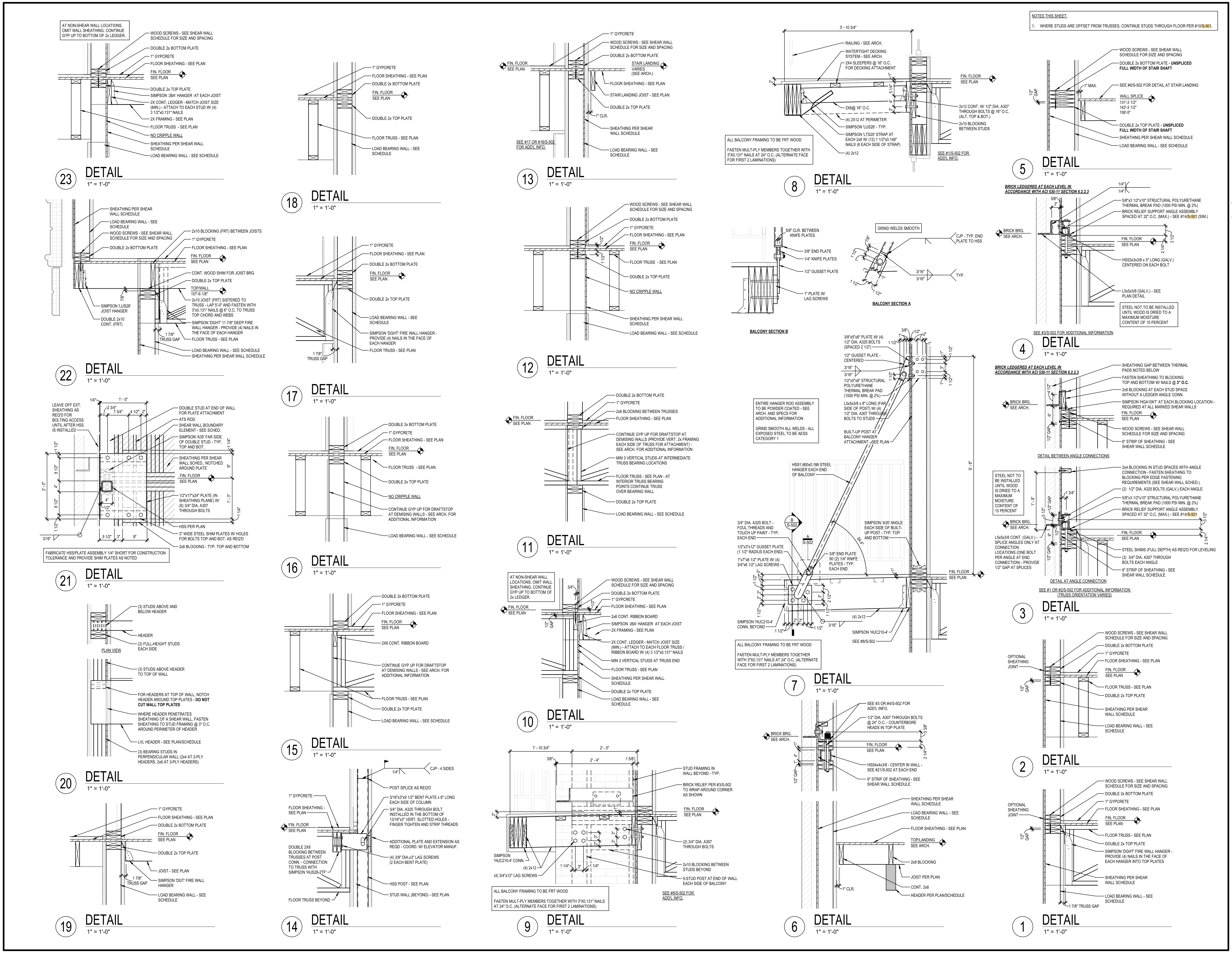
DRAWING NO.
S-501


NOTES THIS SHEET:
1. WHERE STUDS ARE OFFSET FROM TRUSSES, CONTINUE STUDS THROUGH FLOOR PER #10/S-501.
AT NON-SHEAR WALL LOCATIONS, OMIT WALL SHEATHING. CONTINUE GYP UP TO BOTTOM OF 2x LEDGER.
WOOD SCREWS - SEE SHEAR WALL SCHEDULE FOR SIZE AND SPACING
DOUBLE 2x BOTTOM PLATE
1" GYPCRETE
FLOOR SHEATHING - SEE PLAN
FIN. FLOOR SEE PLAN
DOUBLE 2x TOP PLATE
SIMPSON 'JBA' HANGER AT EACH JOIST
FLOOR TRUSS - SEE PLAN
NO CRIPPLE WALL
SHEATHING PER SHEAR WALL SCHEDULE
LOAD BEARING WALL - SEE SCHEDULE
ALL BALCONY FRAMING TO BE FRT WOOD
FASTEN MULT-PLY MEMBERS TOGETHER WITH 3"X0.131" NAILS AT 24" O.C. (ALTERNATE FACE FOR FIRST 2 LAMINATIONS)
ENTIRE HANGER ROD ASSEMBLY TO BE POWDER COATED - SEE ARCH. AND SPECS FOR ADDITIONAL INFORMATION
GRIND SMOOTH ALL WELDS - ALL EXPOSED STEEL TO BE AESS CATEGORY 1
FABRICATE HSS/PLATE ASSEMBLY 1/4" SHORT FOR CONSTRUCTION TOLERANCE AND PROVIDE SHIM PLATES AS NOTED
STEEL NOT TO BE INSTALLED UNTIL WOOD IS DRIED TO A MAXIMUM MOISTURE CONTENT OF 15 PERCENT
BRICK LEDGERED AT EACH LEVEL IN ACCORDANCE WITH ACI 530-11 SECTION 6.2.2.3
BALCONY SECTION A
BALCONY SECTION B
DETAIL BETWEEN ANGLE CONNECTIONS
DETAIL AT ANGLE CONNECTION
PLAN VIEW
23 DETAIL 1" = 1'-0"
22 DETAIL 1" = 1'-0"
21 DETAIL 1" = 1'-0"
20 DETAIL 1" = 1'-0"
19 DETAIL 1" = 1'-0"
18 DETAIL 1" = 1'-0"
17 DETAIL 1" = 1'-0"
16 DETAIL 1" = 1'-0"
15 DETAIL 1" = 1'-0"
14 DETAIL 1" = 1'-0"
13 DETAIL 1" = 1'-0"
12 DETAIL 1" = 1'-0"
11 DETAIL 1" = 1'-0"
10 DETAIL 1" = 1'-0"
9 DETAIL 1" = 1'-0"
8 DETAIL 1" = 1'-0"
7 DETAIL 1" = 1'-0"
6 DETAIL 1" = 1'-0"
5 DETAIL 1" = 1'-0"
4 DETAIL 1" = 1'-0"
3 DETAIL 1" = 1'-0"
2 DETAIL 1" = 1'-0"
1 DETAIL 1" = 1'-0"

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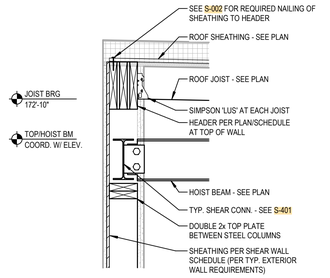
DRAWING NO.
S-502

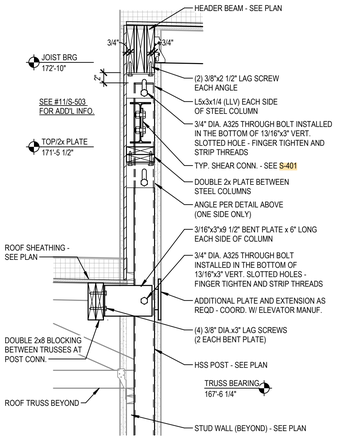
NOTES THIS SHEET:

1. SPA-1: SIMPSON SDS, FASTENMASTER TIMBERLOK OR HEADLOK SCREWS, GRK RSS, OR APPROVED EQUAL. SCREW LENGTH SHALL BE SUFFICIENT TO PENETRATE AT LEAST 1 1/2" INTO THE LAST PLY OF WOOD BEING CONNECTED (WALL TOP PLATE OR RIBBON BOARD). #14 MINIMUM SCREW DIAMETER.
2. WOOD IN EXTERIOR WALLS ABOVE ROOF TRUSS BEARING ELEVATION OF 167'-6 1/4" IS NOT REQUIRED TO BE FRT WOOD.

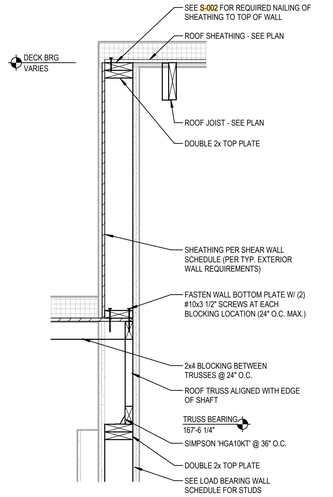


SEE #9/S-503 FOR CONTINUATION

11 DETAIL
1" = 1'-0"



10 DETAIL
1" = 1'-0"



8 DETAIL
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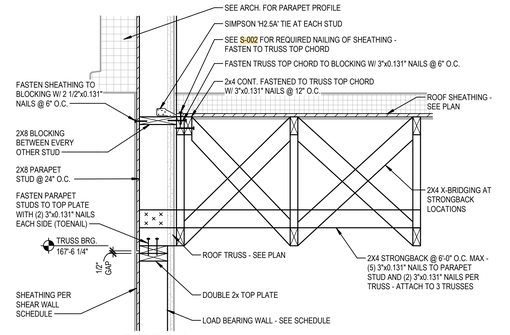
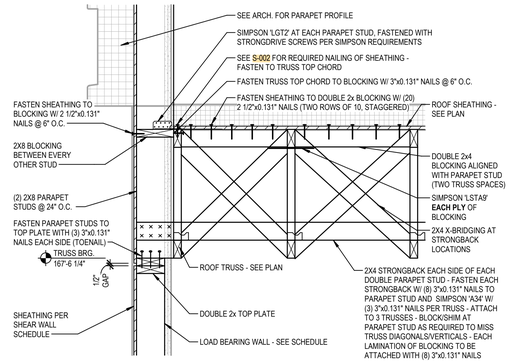
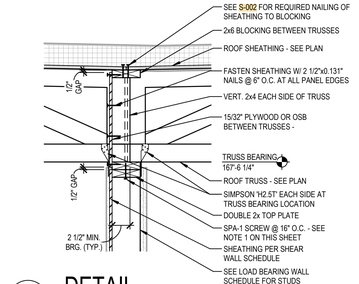


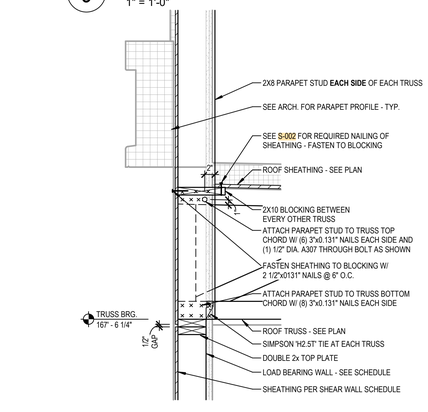
4 DETAIL
1" = 1'-0"



3 DETAIL
1" = 1'-0"



7 DETAIL
1" = 1'-0"



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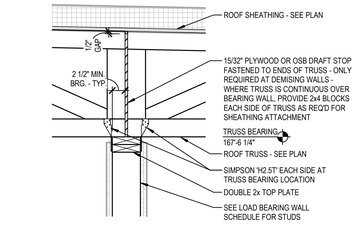
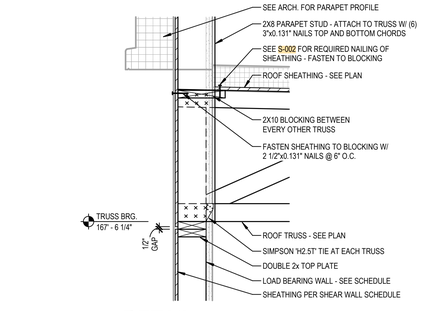
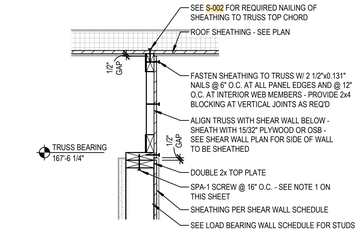


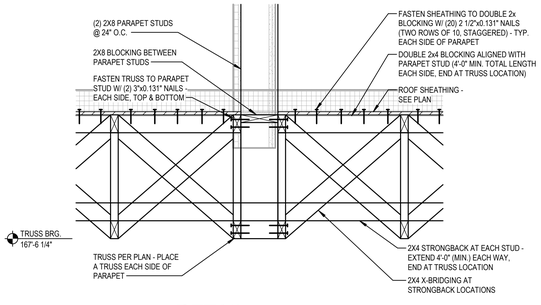
6 DETAIL
1" = 1'-0"



1 DETAIL
1" = 1'-0"



5 DETAIL
1" = 1'-0"



12 DETAIL
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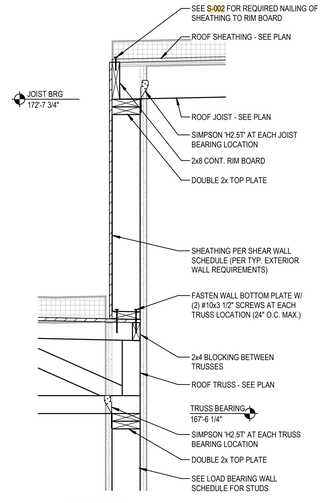

9 DETAIL
1" = 1'-0"

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ISSUE DATE: 09/13/2024
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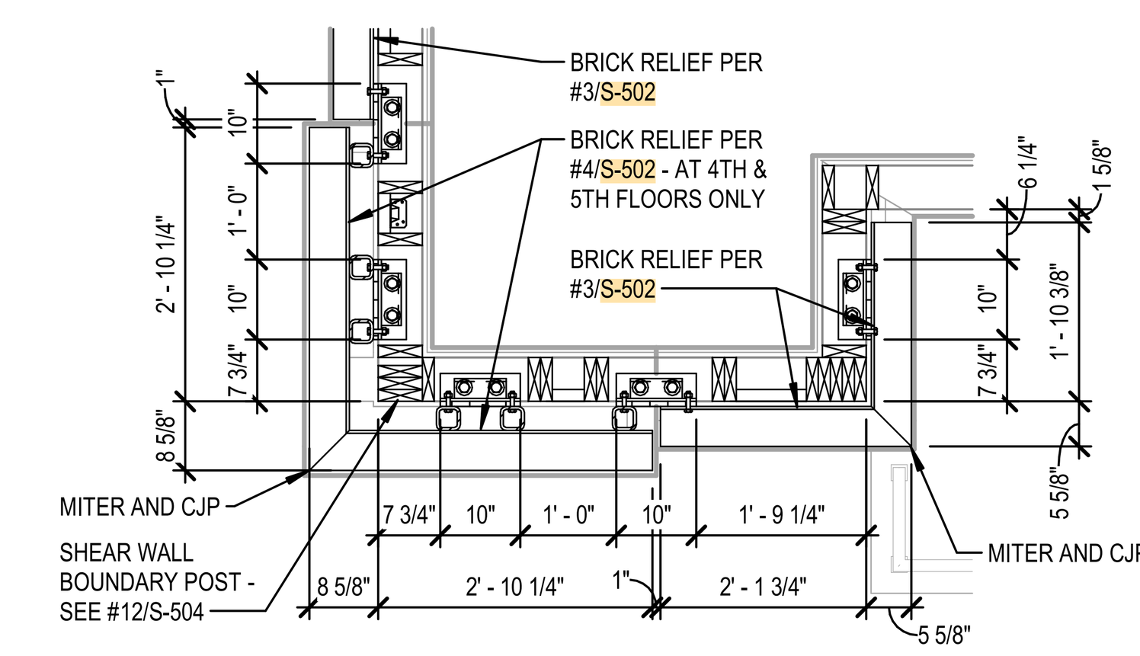
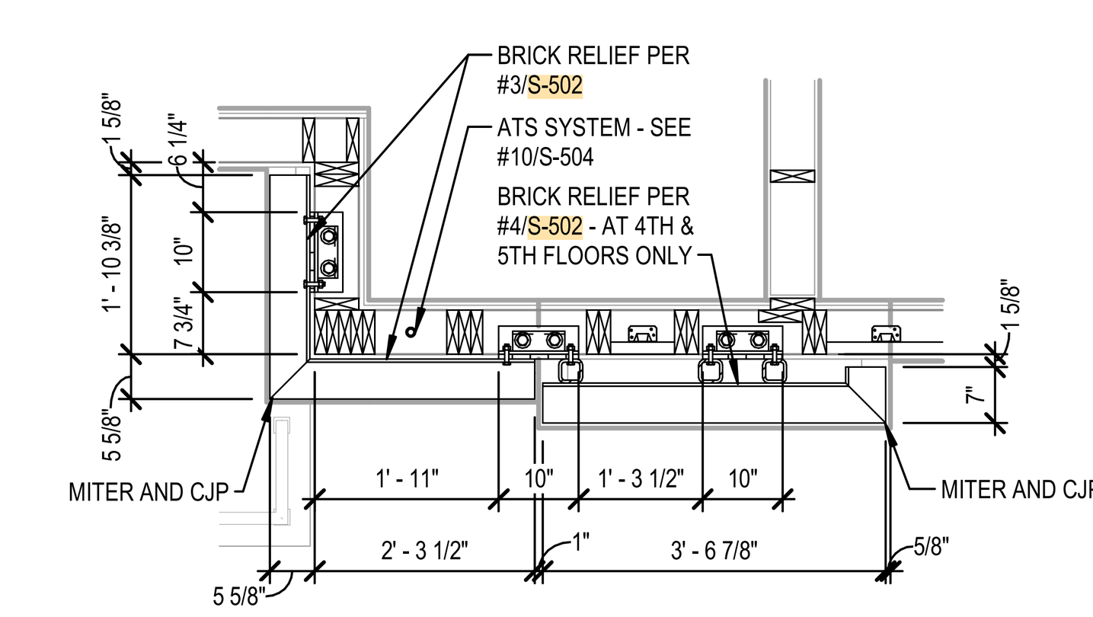
DRAWING NO.
S-503

Plot Time/Date: 9/12/2024 9:44:01 AM
Drawing Name: S-503.rvt

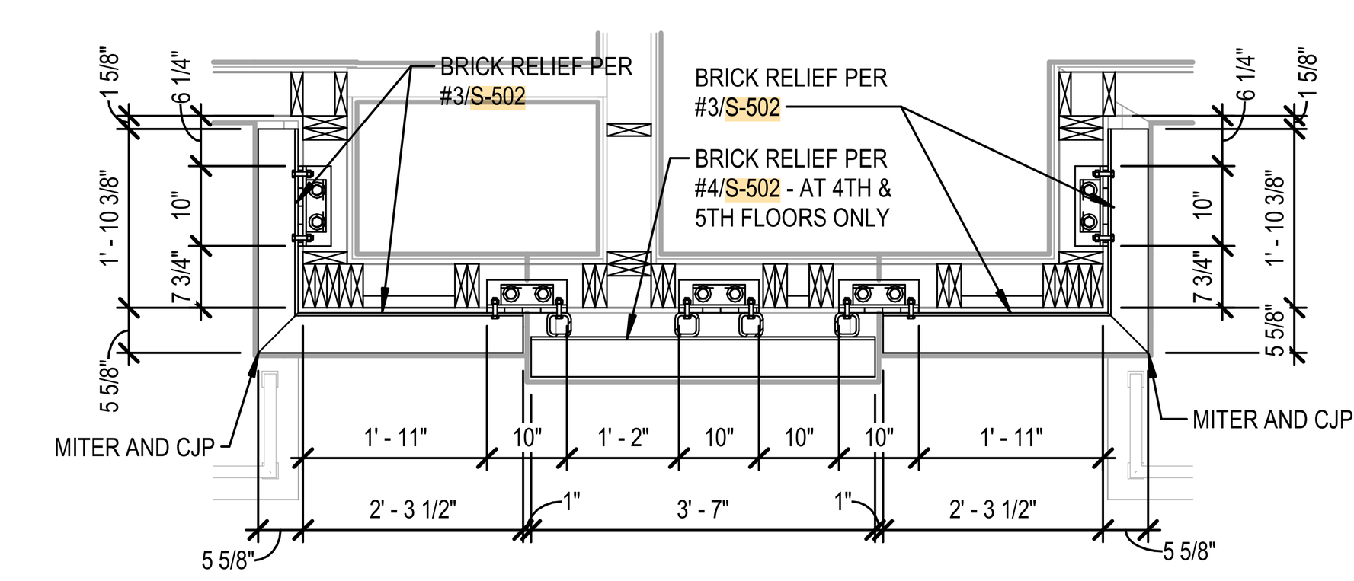
BRICK LEDGERED AT EACH LEVEL IN ACCORDANCE WITH ACI 530-11 SECTION 6.2.2.3



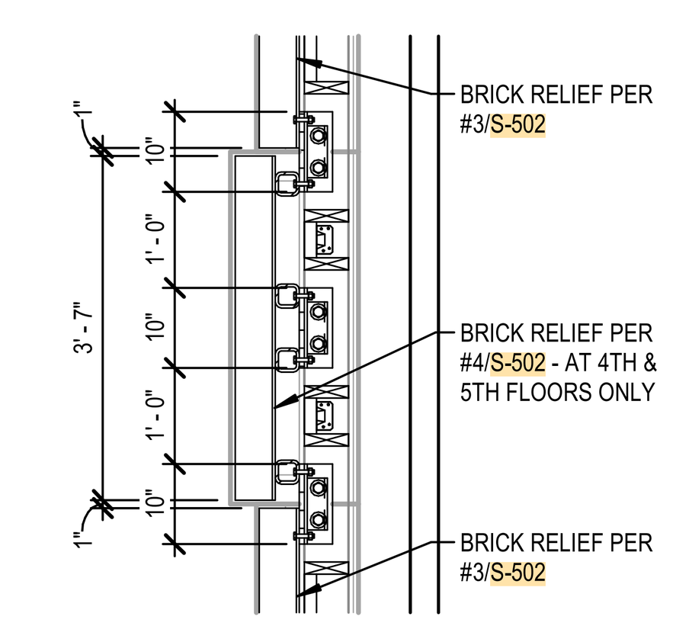
1 PLAN DETAIL
1/2" = 1'-0"



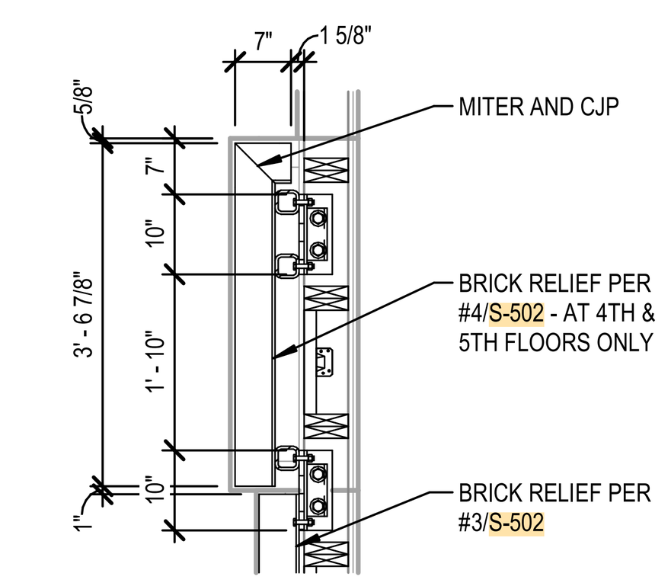
2 PLAN DETAIL
1/2" = 1'-0"



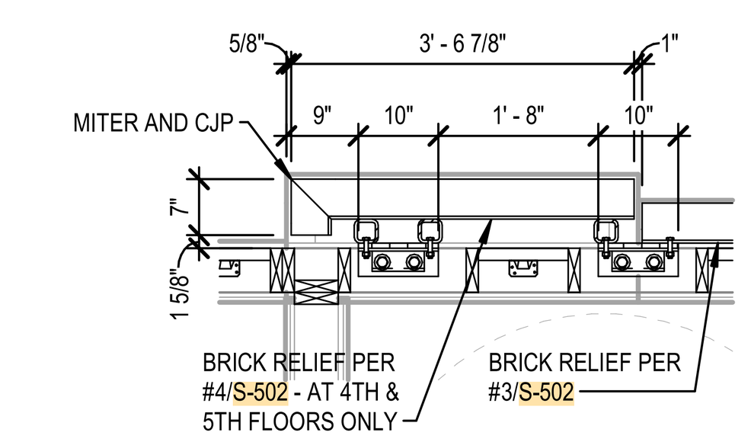
3 PLAN DETAIL
1/2" = 1'-0"



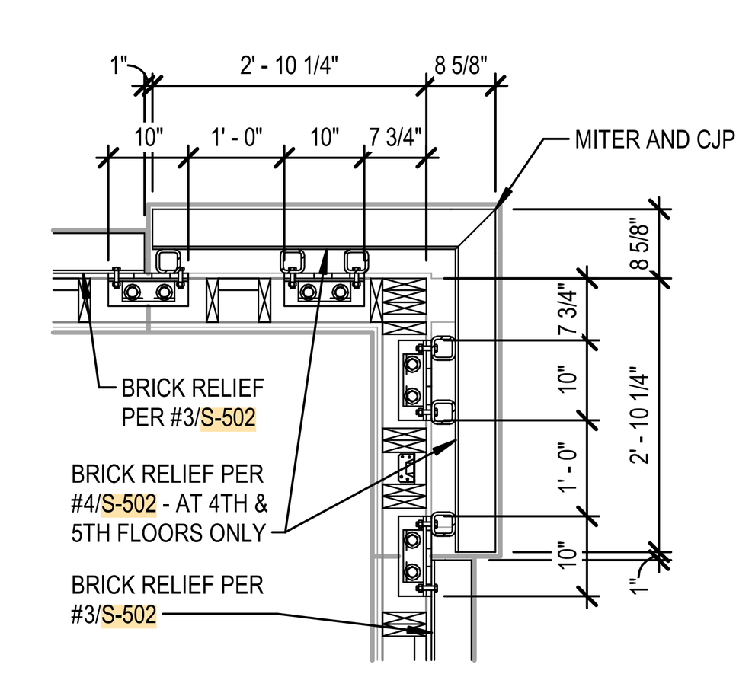
4 PLAN DETAIL
1/2" = 1'-0"



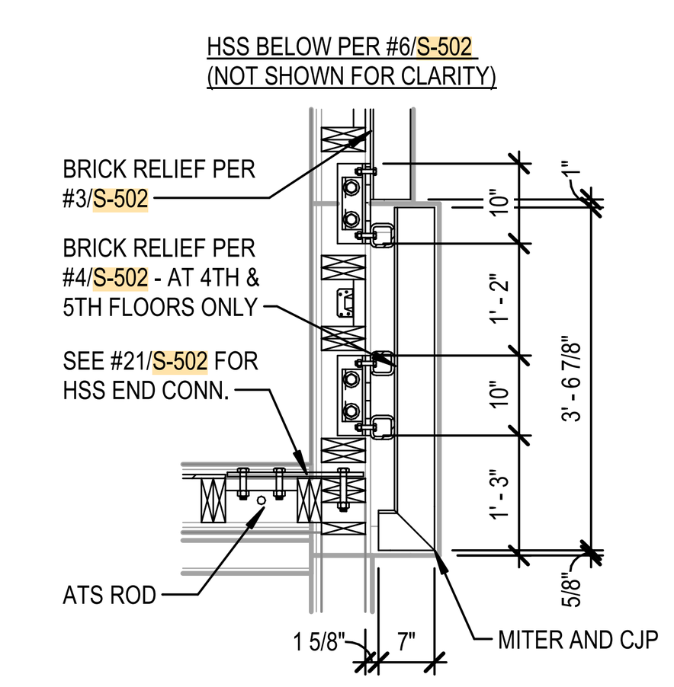
5 PLAN DETAIL
1/2" = 1'-0"



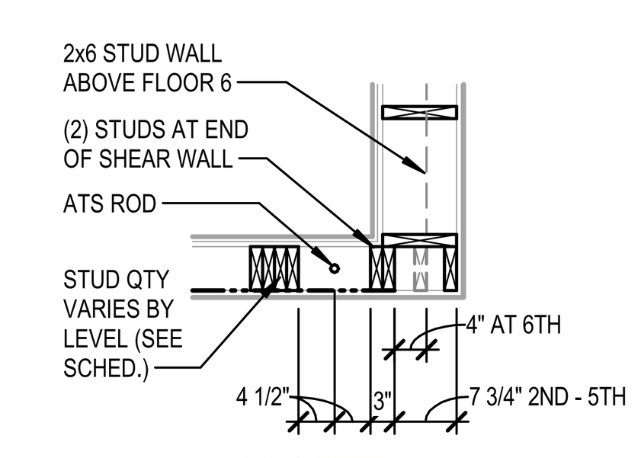
6 PLAN DETAIL
1/2" = 1'-0"



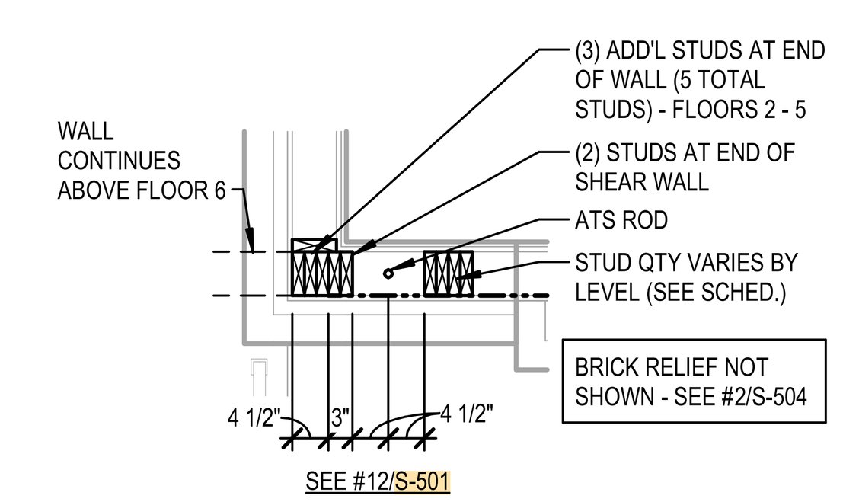
7 PLAN DETAIL
1/2" = 1'-0"



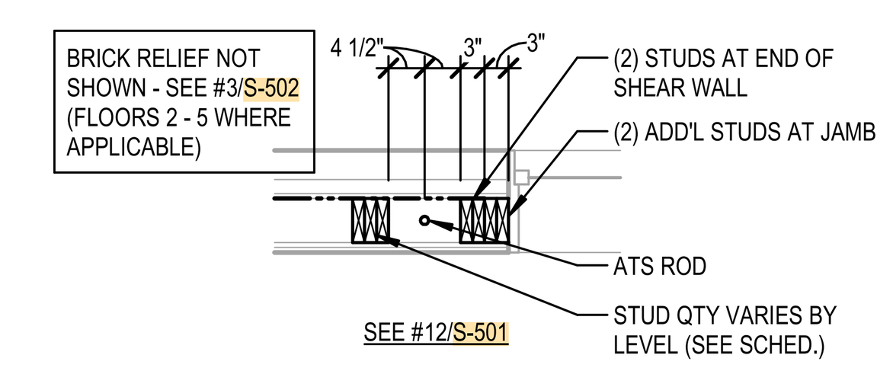
8 PLAN DETAIL
1/2" = 1'-0"



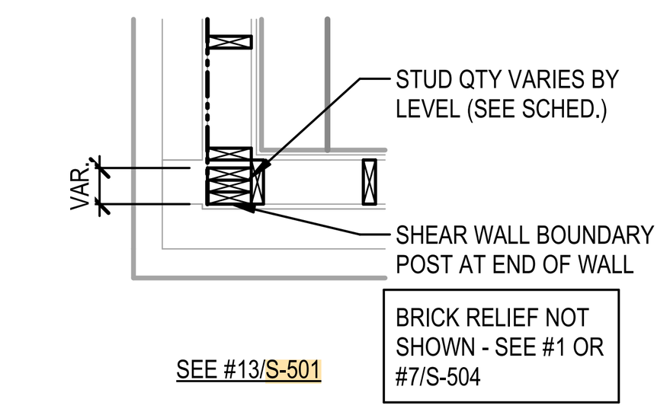
9 SHEAR WALL PLAN DTL
1/2" = 1'-0"



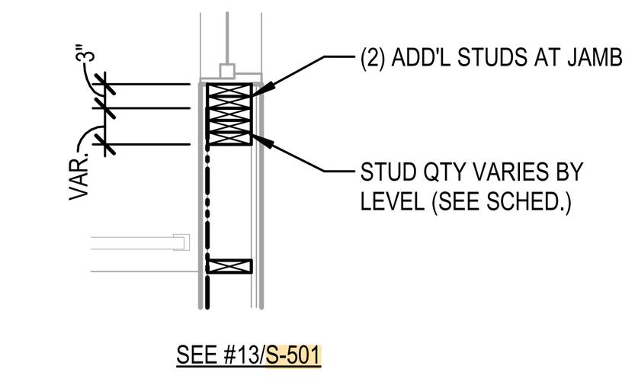
10 SHEAR WALL PLAN DTL
1/2" = 1'-0"



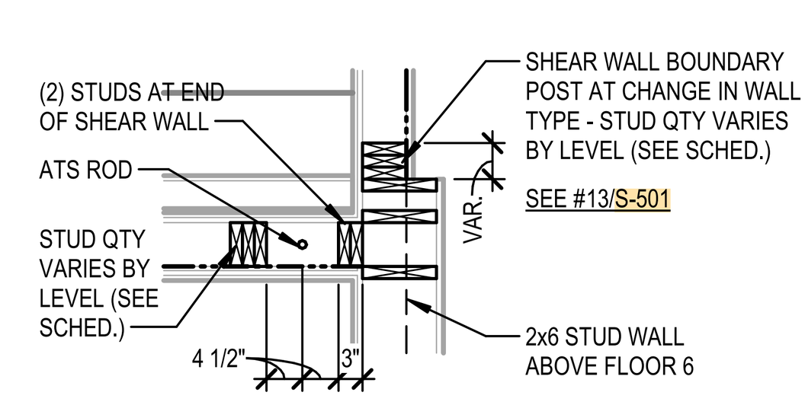
11 SHEAR WALL PLAN DTL
1/2" = 1'-0"



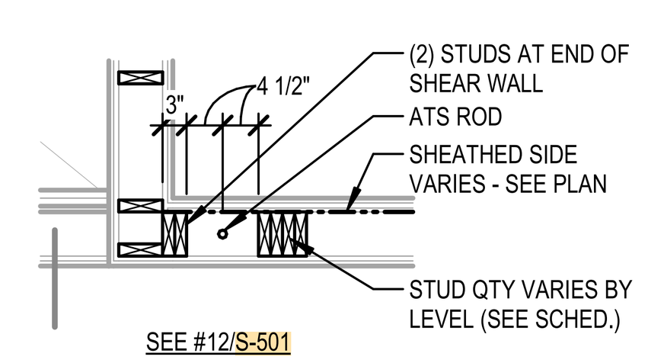
12 SHEAR WALL PLAN DTL
1/2" = 1'-0"



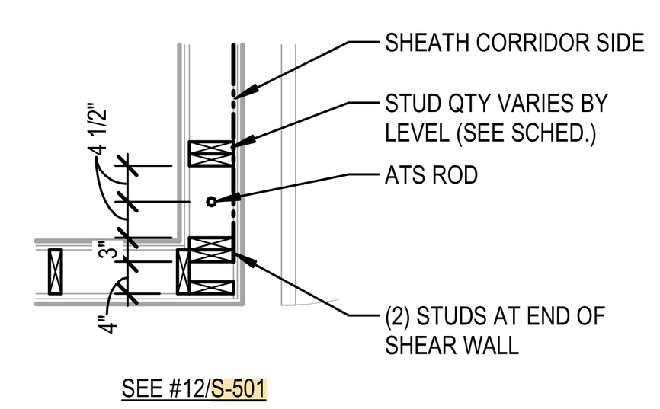
13 SHEAR WALL PLAN DTL
1/2" = 1'-0"



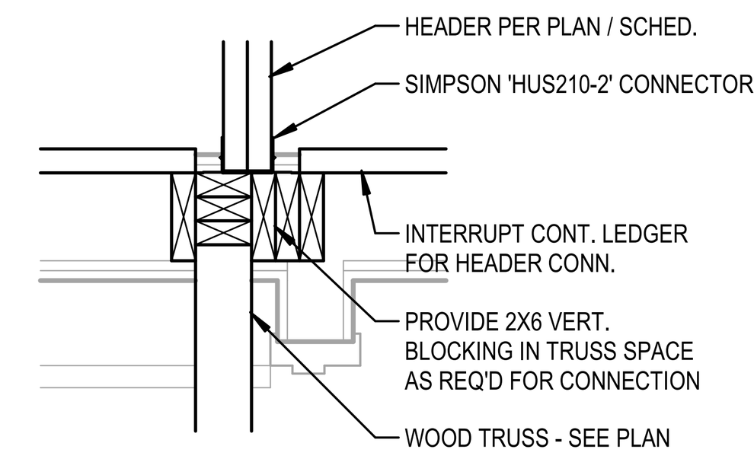
14 SHEAR WALL PLAN DTL
1/2" = 1'-0"



15 SHEAR WALL PLAN DTL
1/2" = 1'-0"



16 SHEAR WALL PLAN DTL
1/2" = 1'-0"



17 PLAN DETAIL
1" = 1'-0"

MKM architecture + design
119 West Wayne Street
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Certification: 09.13.2024 BID SET
DANIEL J. SCHENKEL REGISTERED No. 19700114 STATE OF INDIANA PROFESSIONAL ENGINEER

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Key Plan:

THE LANDING 3.0

NEW CONSTRUCTION
555 S HARRISON ST.
Fort Wayne, Indiana 46802

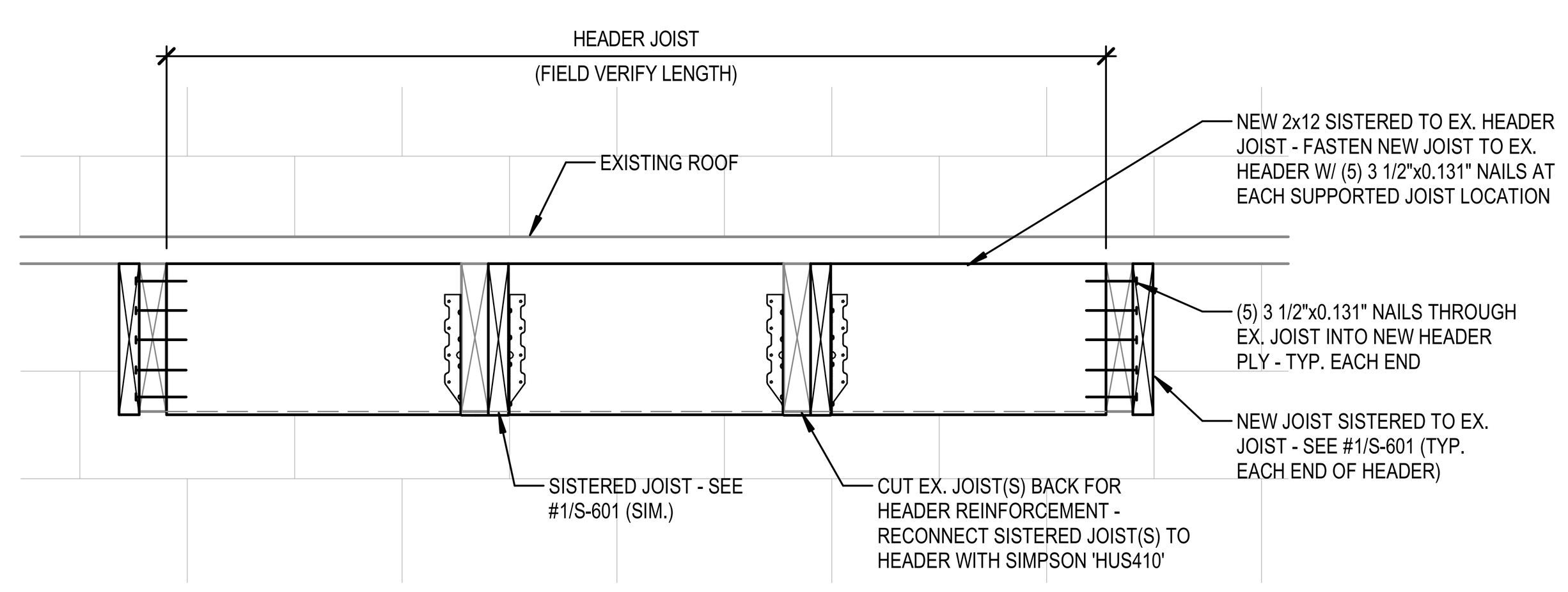
REVISION

No.	Date	Revision

DRAWING CONTENTS:
WOOD PLAN DETAILS

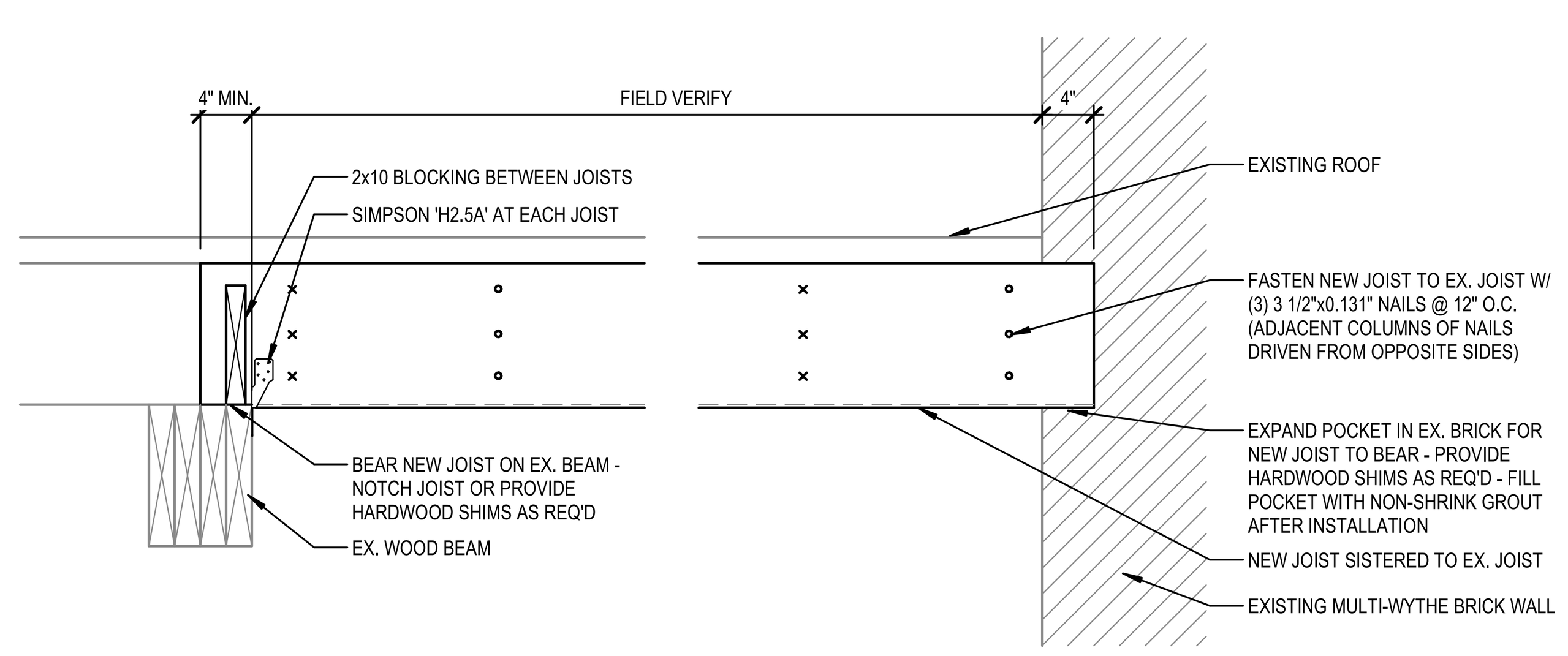
ISSUE DATE:	PROJECT NO.
09/13/2024	23029

DRAWING NO.
S-504



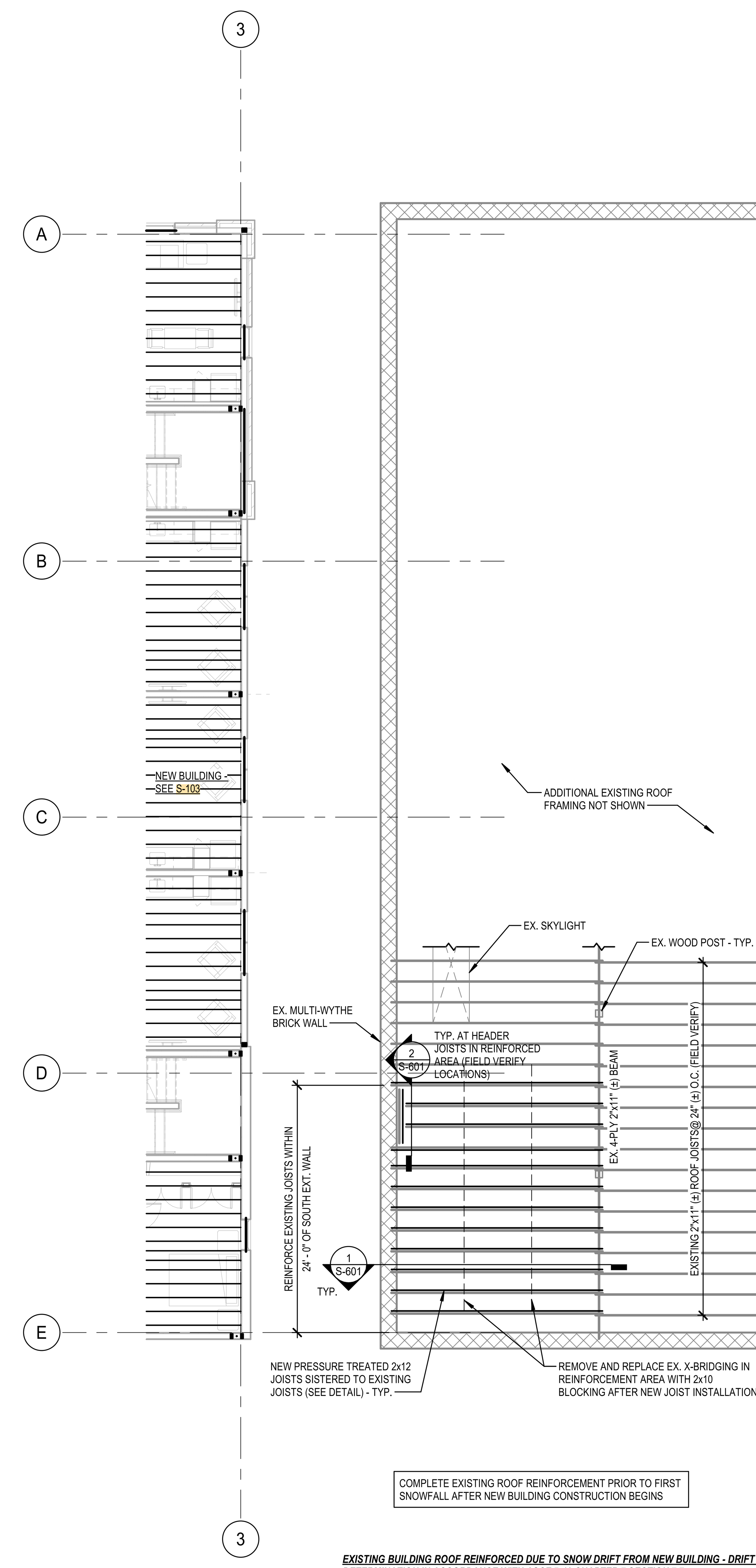
2 DETAIL

1" = 1'-0"



1 DETAIL

1" = 1'-0"



EXISTING BUILDING ROOF REINFORCED DUE TO SNOW DRIFT FROM NEW BUILDING - DRIFT DETERMINATION IN ACCORDANCE WITH ASCE 7-10 CHAPTER 7 SECTION 7.7

EXISTING BUILDING ROOF REINFORCEMENT

1/8" = 1'-0"

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NEW CONSTRUCTION
555 S HARRISON ST.
Fort Wayne, Indiana 46802

REVISION

No.	Date	Revision

DRAWING CONTENTS:
FRAMING PLAN AND DETAILS - EXISTING BUILDING

ISSUE DATE:	PROJECT NO.
09/13/2024	23029

DRAWING NO.

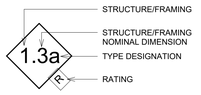
S-601

1.0 METAL STUD

2.0 WOOD STUD

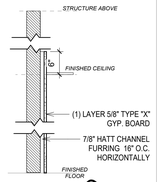
3.0 CONCRETE MASONRY UNIT

4.0 CAST-IN-PLACE CONCRETE



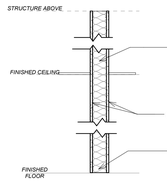
WALL TYPE LEGEND

WALL TYPE LEGEND - METAL STUD

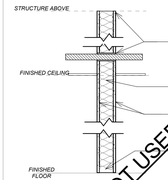


WALL TYPE : 1.2b

NOT USED



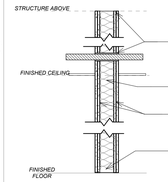
WALL TYPE : 1.3



NOT USED

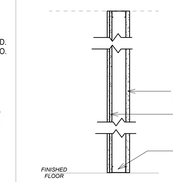
WALL TYPE : 1.3c

1 - HOUR FIRE PARTITION:
1- HR FIRE RESISTANCE EXTENDED TO UNDERSIDE OF STRUCTURE ABOVE. SEE UL DESIGN NO. V463 FOR SYSTEM DETAILS.



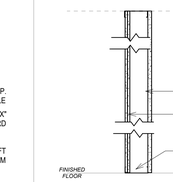
WALL TYPE :1.3d

2 - HOUR FIRE PARTITION:
2- HR FIRE RESISTANCE EXTENDED TO UNDERSIDE OF STRUCTURE ABOVE. SEE UL DESIGN NO. V463 FOR SYSTEM DETAILS.



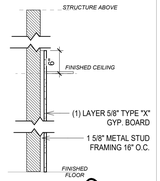
WALL TYPE : 1.4a

2 - HOUR FIRE PARTITION:
2- HR FIRE RESISTANCE SHAFT WALL SYSTEM. PER UL DESIGN # U415



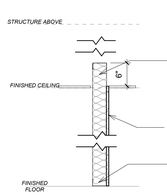
WALL TYPE : 1.6a

2 - HOUR FIRE PARTITION:
2- HR FIRE RESISTANCE SHAFT WALL SYSTEM. PER UL DESIGN # U415

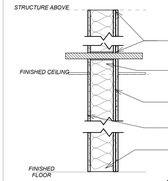


WALL TYPE : 1

NOT USED



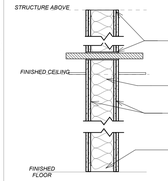
WALL TYPE : 1.3a



NOT USED

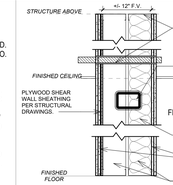
WALL TYPE : 1.6c

1 - HOUR FIRE PARTITION:
(TYPICAL CORRIDOR AND UNIT DEMISING WALLS)
1- HR FIRE RESISTANCE EXTENDED TO UNDERSIDE OF STRUCTURE ABOVE. SEE UL DESIGN NO. V463 FOR SYSTEM DETAILS.



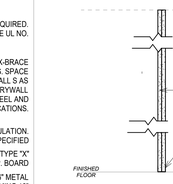
WALL TYPE : 1.6d

2 - HOUR FIRE PARTITION:
2- HR FIRE RESISTANCE EXTENDED TO UNDERSIDE OF STRUCTURE ABOVE. SEE UL DESIGN NO. V463 FOR SYSTEM DETAILS.



WALL TYPE : 1.6e

2 - HOUR FIRE PARTITION:
2- HR FIRE RESISTANCE EXTENDED TO UNDERSIDE OF STRUCTURE ABOVE.

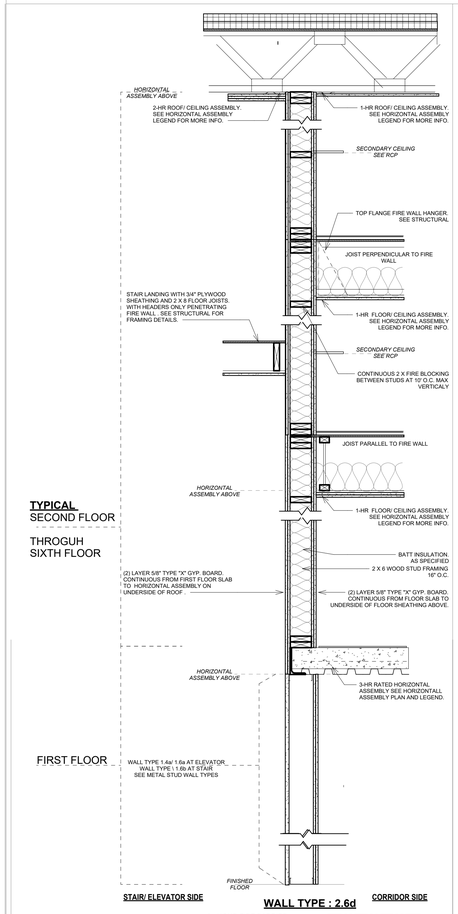


WALL TYPE : 1.2a

2 - HOUR FIRE PARTITION:
2- HR FIRE RESISTANCE SHAFT WALL SYSTEM. PER UL DESIGN # U336

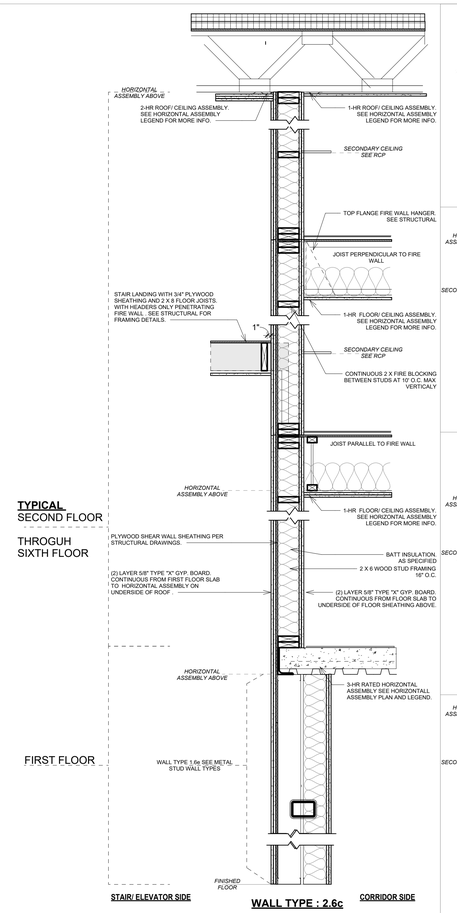
GENERAL NOTES:
* ALL INTERIOR PARTITIONS SHALL RECEIVE FIBERGLAS BATT INSULATION U.N.O.
*** FIBERGLAS BATT INSULATION BASIS OF DESIGN: OWENS CORNING, ECHO TOUCH PINK, UNFACED FIBERGLAS BATT INSULATION.
****MOISTURE RESISTANT GYPSUM BOARD SHALL BE PROVIDED AT ALL PLUMING FIXTURE LOCATIONS. SEE TYPICAL MOISTURE RESISTANT GYP. BOARD DETAIL ON A-500 SHEETS FOR MORE INFORMATION.

WALL TYPE LEGEND - WOOD STUD



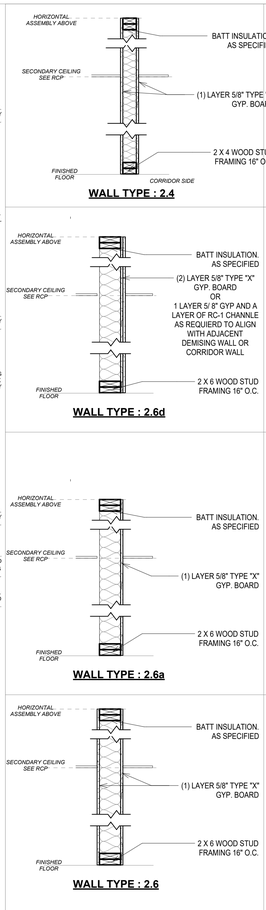
WALL TYPE : 2.6d

2 - HOUR FIRE BARRIER:
2- HR FIRE RESISTANCE EXTENDED TO UNDERSIDE OF HORIZONTAL ASSEMBLY ABOVE. SEE UL DESIGN NO. U301 FOR SYSTEM DETAILS.

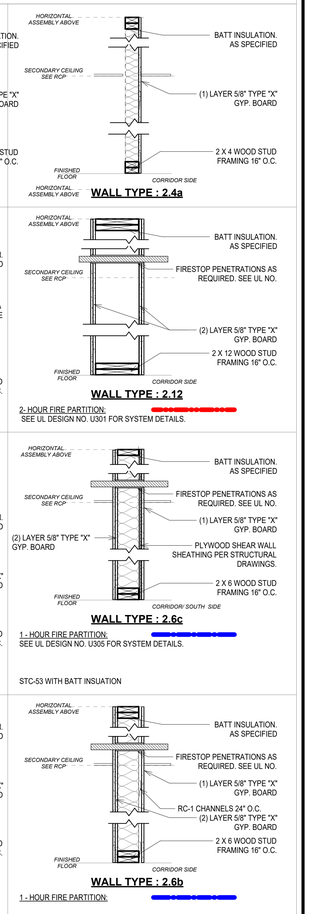


WALL TYPE : 2.6c

2 - HOUR FIRE BARRIER:
2- HR FIRE RESISTANCE EXTENDED TO UNDERSIDE OF HORIZONTAL ASSEMBLY ABOVE. SEE UL DESIGN NO. U301 FOR SYSTEM DETAILS.



WALL TYPE : 2.4



WALL TYPE : 2.4a

WALL TYPE : 2.6d

WALL TYPE : 2.12

2- HOUR FIRE PARTITION:
SEE UL DESIGN NO. U301 FOR SYSTEM DETAILS.

WALL TYPE : 2.6a

WALL TYPE : 2.6c

1 - HOUR FIRE PARTITION:
SEE UL DESIGN NO. U305 FOR SYSTEM DETAILS.

STC-53 WITH BATT INSUATION

WALL TYPE : 2.6

WALL TYPE : 2.6b

1 - HOUR FIRE PARTITION:

STC-53 WITH BATT INSUATION

GENERAL NOTES:
A. ALL INTERIOR PARTITIONS SHALL RECEIVE FIBERGLAS BATT INSULATION U.N.O.
B. FIBERGLAS BATT INSULATION BASIS OF DESIGN: OWENS CORNING, ECHO TOUCH PINK, UNFACED FIBERGLAS BATT INSULATION.
C. SOUND ATTENUATION BATT (SAB) INSULATION BASIS OF DESIGN: OWENS CORNING, ECHO TOUCH SOUND ATTENUATION BATT (SAB), UNFACED (SAB), INSULATION.
D. MOISTURE RESISTANT GYPSUM BOARD SHALL BE PROVIDED AT ALL PLUMING FIXTURE LOCATIONS. SEE TYPICAL MOISTURE RESISTANT GYP. BOARD DETAIL ON A-500 SHEETS FOR MORE INFORMATION.
E. ***STUD SPACING SHOWN ON ARCHITECTURAL PLANS ARE REFERENCED FOR NON-LOAD BEARING INTERIOR PARTITIONS ONLY. SEE STRUCTURAL DRAWINGS FOR BEARING WALL LOCATIONS AND STUD GRADE, SPECIES, AND SPACING IN SPECIFIED BEARING WALLS.***

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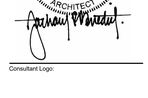

Consultant Logo:

Key Plan:

THE LANDING 3.0

NEW CONSTRUCTION
555 S. HARRISON ST.
Fort Wayne, Indiana 46802

REVISION		
No.	Date	Revision

DRAWING CONTENTS:
INTERIOR WALL TYPE LEGENDS

ISSUE DATE: 09.13.2024
PROJECT NO. 23029

DRAWING NO.
A-010

Plot Time/Date: 9/17/2024 2:49:15 PM
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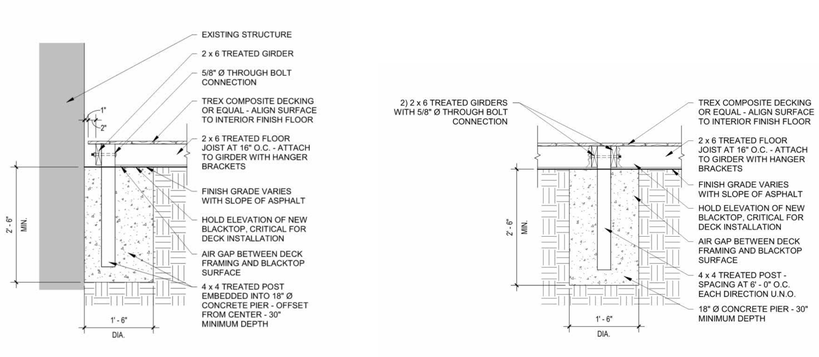

3 DECK FOOTING DTL. -A

3/4" = 1'-0"

4 DECK FOOTING DTL. - B

3/4" = 1'-0"

LIST OF ALTERNATES:
ALTERNATE C1: MECHANICAL YARD CONCRETE
CONTRACTOR SHALL PROVIDE DEDUCTIVE ALTERNATE COST TO REMOVE THE SITE CONCRETE SHOWN IN THE ALLEY/ MECHANICAL YARD AREAS BETWEEN THE BUILDINGS AND INSTALL 4" THICKNESS OF LANDSCAPE RIVERROCK/ STONE MULCH OVER LANDSCAPE FABRIC IN LIEU OF SITE CONCRETE SHOWN ON PLANS.

ALTERNATE A1: NORTH WALL SOUND RATING:
1. BASE BID SHALL INCLUDE STANDARD WALL CONSTRUCTION AND WINDOW CONSTRUCTION ALONG NORTH FACADE. SEE WALL SECTIONS AND WINDOW SPECIFICATION FOR MORE INFO.
2. CONTRACTOR TO PROVIDE ADD ALTERNATE TO PROVIDE 1 1/2" OF CLOSED CELL SPRAY FOAM IN ADDITION TO THE SPECIFIED BATT INSULATION. FOR THE ENTIRE LENGTH OF THE NORTH FACED ON RESIDENTIAL LEVELS 2-6 TO PROVIDE AN ASSUMED 2-3 POINT STC INCREASE ON EXTERIOR WALL
3. CONTRACTOR TO PROVIDE ADD ALTERNATE PRICING TO PROVIDE OFFSET GLAZING IN ALL WINDOWS ON NORTH FACADE AS NOTED ON WINDOW ELEVATIONS NOTES TO PROVIDED STC INCREASE ON NORTH FACADE WINDOWS.

ALTERNATE A2: FIBER CEMENT SIDING FINISH
1. BASE BID SHALL INCLUDE FACTORY FINISHED FIBER CEMENT PANELS AND EZ TRIM REVEALS AS INDICATED ON ELEVATION LEGEND.
2. CONTRACTOR TO PROVIDE ALTERNATE COST FOR LABOR AND MATERIAL TO FURNISH FACTORY PRIMED FIBER CEMENT PANELS AND EZ-TRIM REVEALS TO BE FIELD PAINTED. PANEL COLORS TO BE SELECTED BY ARCHITECT FROM STANDARD SHERWIN WILLIAMS PAINT COLORS IF ALTERNATE IS ACCENTED. SEE ELEVATIONS AND ELEVATION LEGEND FOR PANEL LOCATIONS AND COLORS.

ALTERNATE E1: CABLE TV & INTERNET
1. BASE BID SHALL INCLUDE INCLUDE COST FROM EC TO:
   - A. PULL (1) CAT 6 CABLE TO EACH APARTMENT(S) AV PANEL ABOVE THE REFRIGERATOR, ROUTING CABLES THROUGH THE IDF ROOMS ON FLOORS 3 & 5 AS OUTLINED ON ELECTRICAL DRAWINGS.
   - B. INSTALLING A SPLITTER INSIDE THE AV PANELS ABOVE EACH UNITS REFRIGERATOR AND ROUTING (1) CAT 6 CABLE FROM THE AV PANEL TO EACH APARTMENT TV LOCATION INDICATED ON THE PLAN
   - C. INSTALLING FACEPLATES AND TERMINATIONS AS REQUIRED BY CABLE PROVIDER AT EACH APARTMENT TV LOCATION SHOWN ON PLAN.
2. CONTRACTOR TO PROVIDE DEDUCT ALTERNATE TO PROVIDE BACK BOX ONLY AT THE TV LOCATIONS LOCATED IN EACH APARTMENT AND ASSUME ALL CABLE TV AND INTERNET CABLING, TERMINATIONS AND FACEPLATES WILL BE PROVIDED AND INSTALLED BY UTILITY PROVIDER.

FLOOR PLAN GENERAL NOTES

A. THE WORK SHOWN ON THESE DOCUMENTS AND THE CORRESPONDING SPECIFICATIONS, INTERFACES WITH OTHER TRADES, WHETHER OR NOT SHOWN ON THESE DOCUMENTS, WHICH IMPACTS THE WORK SHOWN HEREIN. IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO COORDINATE SUCH WORK SO AS TO BE IN COMPLIANCE WITH THE INTENT OF ALL THE PROJECT DOCUMENTS.

B. GENERAL CONTRACTOR TO PROVIDE SOLID BLOCKING FOR ALL WALL MOUNTED CASEWORK, EQUIPMENT, AND ACCESSORIES, INCLUDING TOILET ACCESSORIES AS REQUIRED.

C. REFER TO CODE REVIEW PLAN FOR RATED PARTITIONS AND ASSEMBLIES. SEE TYPICAL DETAIL SHEETS FOR FRAMING INFORMATION RELATED TO INTERSECTING SYSTEMS AND INSTALLATION CONDITIONS.

D. DO NOT SCALE DRAWINGS. IF DIMENSIONS ARE IN QUESTION THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING CLARIFICATION FROM THE ARCHITECT BEFORE CONTINUING CONSTRUCTION. FOR FURTHER DIMENSIONING SEE ENLARGED PLANS, SECTIONS, AND ELEVATIONS. CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB AND THE ARCHITECT MUST BE NOTIFIED OF ANY VARIATION FROM THE DIMENSIONS AND CONDITIONS SHOWN BY THESE DRAWINGS. SHOP DRAWINGS MUST BE SUBMITTED TO THE ARCHITECT FOR REVIEW BEFORE PROCEEDING WITH FABRICATION AND/OR INSTALLATION.

E. WALL DIMENSIONS ARE FROM FACE-OF-STUD TO FACE-OF-STUD OR EXISTING FINISH TO FACE-OF-STUD. SEE TYPICAL DETAIL FOR MORE INFORMATION.

F. THE CONTRACTOR SHALL CAREFULLY STUDY AND COMPARE THE REFLECTED CEILING PLAN WITH THE LIGHTING PLANS AND MECHANICAL SUPPLY, RETURN AND EXHAUST PLANS. REPORT IN WRITING TO THE ARCHITECT ANY INCONSISTENCY HEREIN.

G. THE CONTRACTOR SHALL VERIFY AND PROVIDE ACCESS PANELS IN WALLS AND CEILINGS WHERE SERVICE AND ADJUSTMENTS TO MECHANICAL, PLUMBING, OR ELECTRICAL MAY BE REQUIRED. ACCESS PANELS SHALL BE THE FIRE RATED TYPE EQUAL TO THE WALL OR CEILING IN WHICH THEY OCCUR AND FINAL LOCATION SHOULD BE VERIFIED WITH ARCHITECT PRIOR TO INSTALLATION. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

H. PIPING INSIDE THE BUILDING SHALL BE CONCEALED IN FURRED SPACES WITH THE EXCEPTION OF PIPING IN MECHANICAL AND SERVICE ROOMS. CHASES SHALL PROVIDED FOR ALL MECHANICAL, ELECTRICAL, AND PLUMBING AS REQUIRED. SEE RESPECTIVE PLAN & ELEVATION DRAWINGS FOR COORDINATION.

I. SEE ELECTRICAL DRAWINGS AND/OR COMMUNICATIONS DRAWINGS FOR LOCATIONS OF CEILING MOUNTED SMOKE DETECTORS, SPEAKERS, NURSE CALL SYSTEMS, FIRE ALARM DEVICES, EXIT SIGNAGE, ETC. IT IS THE CONTRACTOR`S RESPONSIBILITY TO COORDINATE THESE ITEMS WITH THE REFLECTED CEILING PLAN(S)

J. SEE FINISH SCHEDULE, PLANS, & ELEVATIONS FOR LOCATIONS OF SPECIFIC FINISHES, MATERIALS, AND ACCENT WALLS

FLOOR PLAN NOTES

DIV 3 - CONCRETE
3.01 CONCRETE STOOP. SEE STRUCTURAL FOR STOOP DTL.

DIV 5 - METALS
5.01 24" WIDE WALL MOUNTED ALLUMINUM ROOF ACCESS LADDER. EQUAL TO OKEEFFE'S INC, MODLE 500 FIXED ACCESS LADDER., MILL FINISH., INCLUDE WITH SECURITY DOOR AND PAD LOCK AND WALL BRACKETS AS REQUIERED. PROVIDE SHOP DRAWING FOR REVIEW.

DIV 6 - WOOD, PLASTICS, AND COMPOSITES
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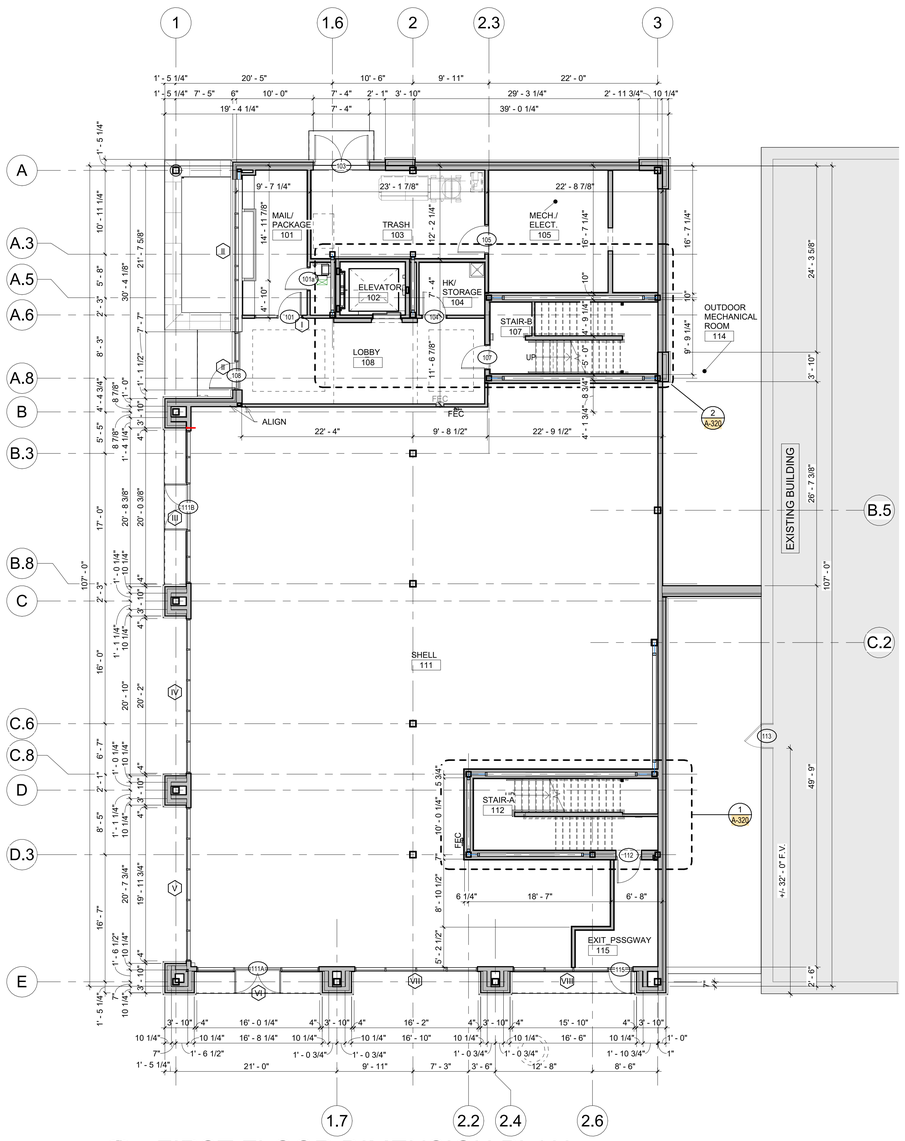
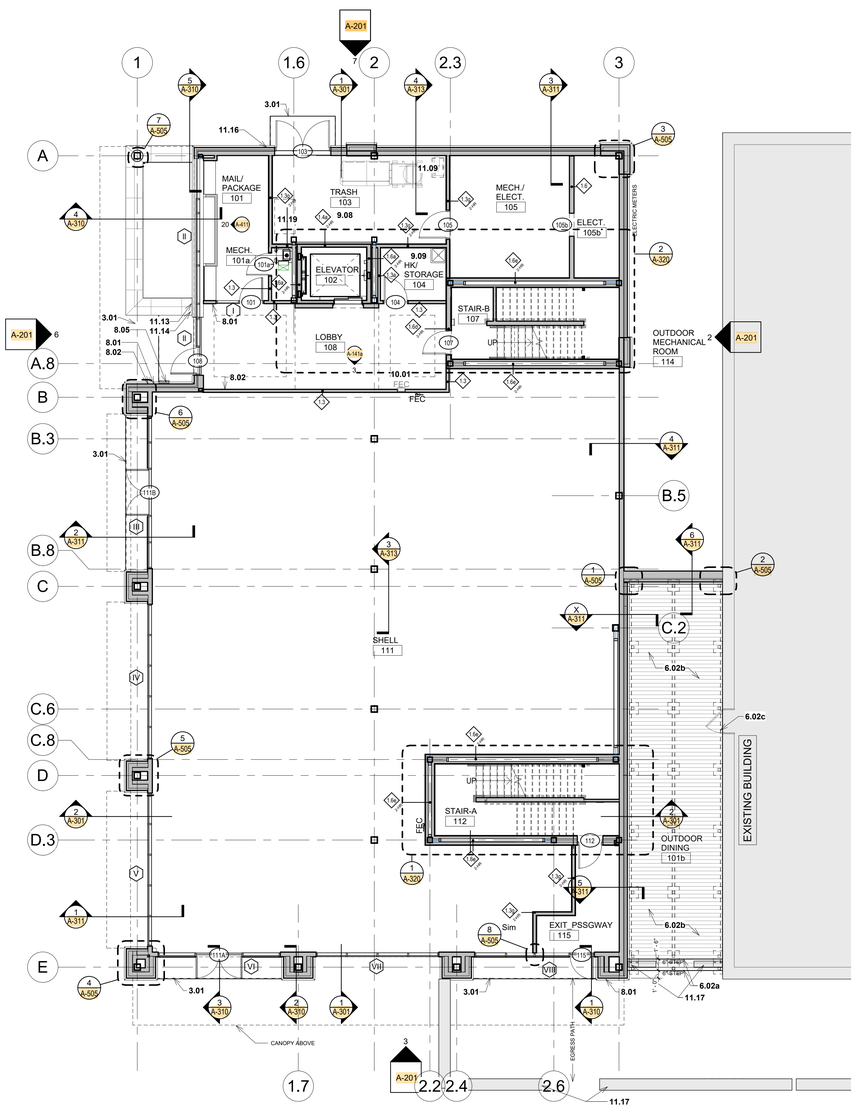


FIRST FLOOR DIMENSION PLAN

1/8" = 1'-0"

NORTH



FIRST FLOOR NOTATION PLAN

1/8" = 1'-0"

NORTH

MKM
architecture + design
435 E. Brackenridge St.
Fort Wayne, Indiana 46802
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www.MKMdesign.com

Certification: 09.13.2024 BID SET

Consultant Logo:

Key Plan:

THE LANDING 3.0

NEW CONSTRUCTION
555 S. HARRISON ST.
Fort Wayne, Indiana 46802

REVISION

No.	Date	Revision

DRAWING CONTENTS:
FIRST FLOOR NOTATION & DIMENSION PLANS

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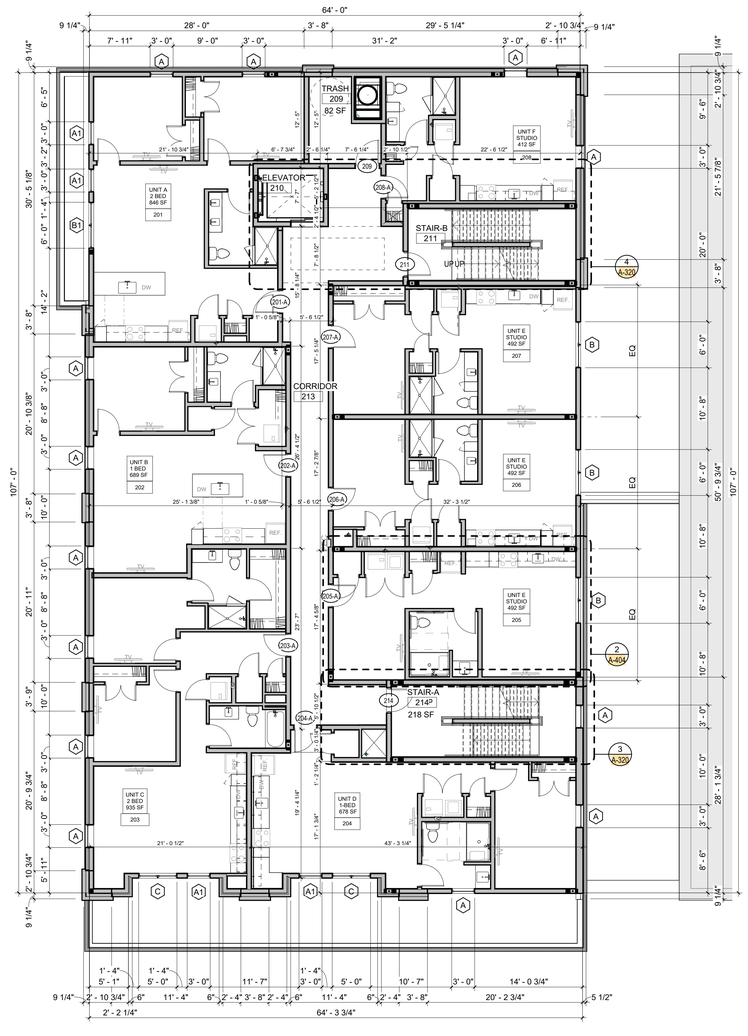

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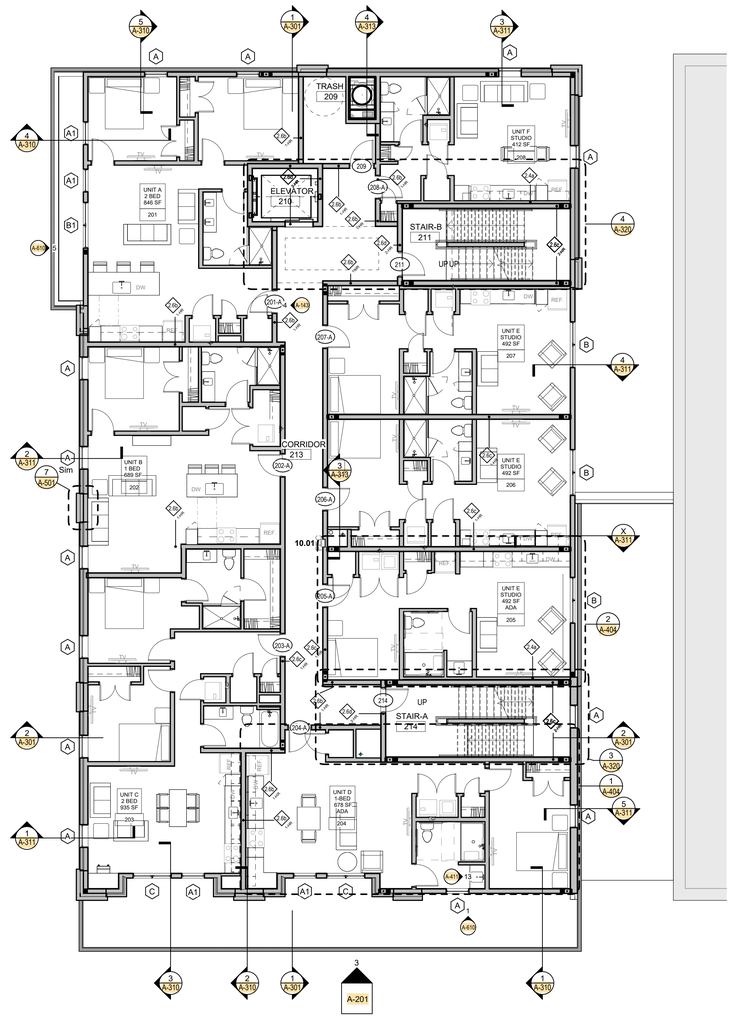

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B. GENERAL CONTRACTOR TO PROVIDE SOLID BLOCKING FOR ALL WALL MOUNTED CASEWORK, EQUIPMENT, AND ACCESSORIES, INCLUDING TOILET ACCESSORIES AS REQUIRED.

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p 260.422.0783
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Certification: 09.13.2024 BID SET

Consultant Logo:

Key Plan:

THE LANDING 3.0

NEW CONSTRUCTION
555 S. HARRISON ST.
Fort Wayne, Indiana 46802

REVISION		
No.	Date	Revision

DRAWING CONTENTS:
SECOND FLOOR NOTATION & DIMENSION PLANS

ISSUE DATE: 09.13.2024
PROJECT NO. 23029

DRAWING NO.
A-112

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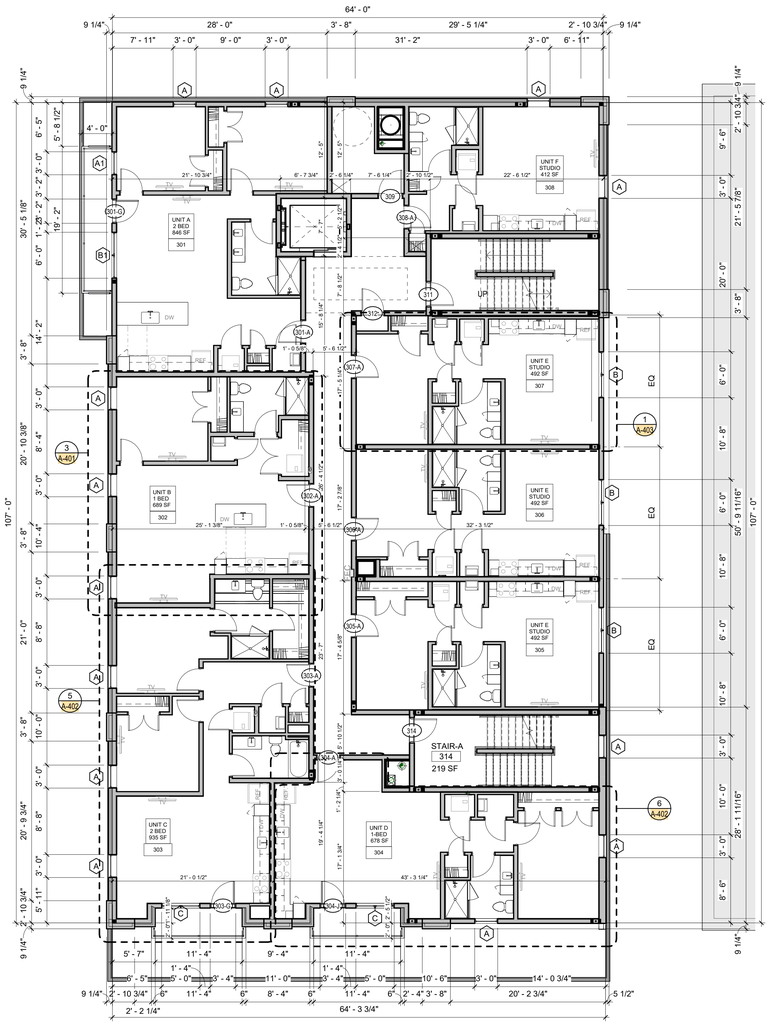
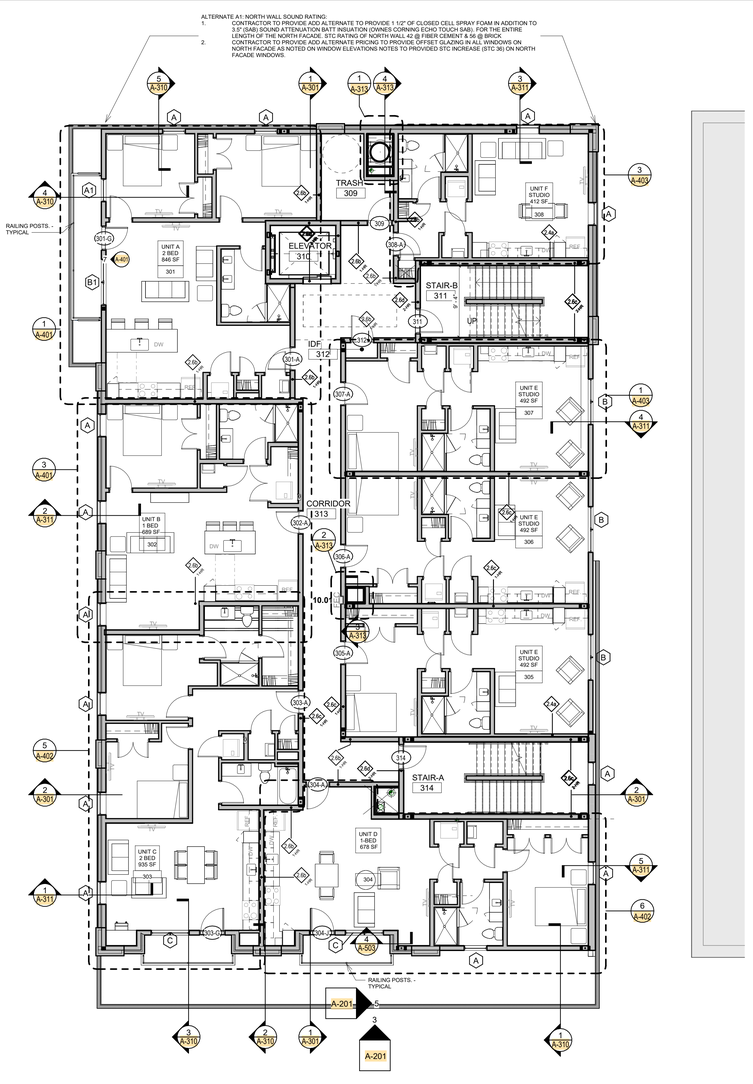


NORTH

THIRD FLOOR - DIMENSION PLAN

1/8" = 1'-0"



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6.02a NEW TREX COMPOSITE DECK OVER 2 X 6 TREATED WOOD FRAMING WITH 4 X 4 TREATED WOOD POSTS IN CONCRETE FOOTINGS. SEE TYPICAL DECK FOOTING DETAILS FOR FOUNDATION AND FRAMING NOTES. PROVIDE PRODUCT SAMPLES OF TREX DECKING MATERIALS TO OWNER/ ARCHITECT FOR APPROVAL PRIOR TO PURCHASE.
6.02b (2) NEW +/- 6" TALL STEPS IN NEW TREX DECK. FRAME WITH TREATED WOOD 2 X 6 FRAMING 16 " O.C. MAX WITH TREX DECKING TREADS AND RISERS. – (F.V.) EXISTING ELEVATIONS AND ADJUST RISERS AS REQUIRED.
6.02c NEW FINISH FLOOR ELEVATION TO ALIGN WITH EXISTING RESTAURANT FINISHED FLOOR AT EXISTING OPENING. (F.V.)

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9.06 TILE TUB SURROUND WITH FIBERGLASS TUB. SEE FINISH LEGEND FOR MORE INFO.
9.07 DRYWALL KNEE WALL BELOW. SEE ISLAND COUNTER DETAIL FOR MORE INFO.
9.08 PROVIDE GYP BOARD EQUAL TO: MOLD TOUGH, AR FIRE CODE TYPE X, ABUSE RESISTANT GYPSUM ON ALL WALLS IN TRASH ROOM
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Certification: 09.13.2024 BID SET

Consultant Logo:

Key Plan:

THE LANDING 3.0

NEW CONSTRUCTION
555 S. HARRISON ST.
Fort Wayne, Indiana 46802

REVISION		
No.	Date	Revision

DRAWING CONTENTS:
THIRD FLOOR NOTATION & DIMENSION PLANS

ISSUE DATE: 09.13.2024
PROJECT NO. 23029

DRAWING NO.
A-113

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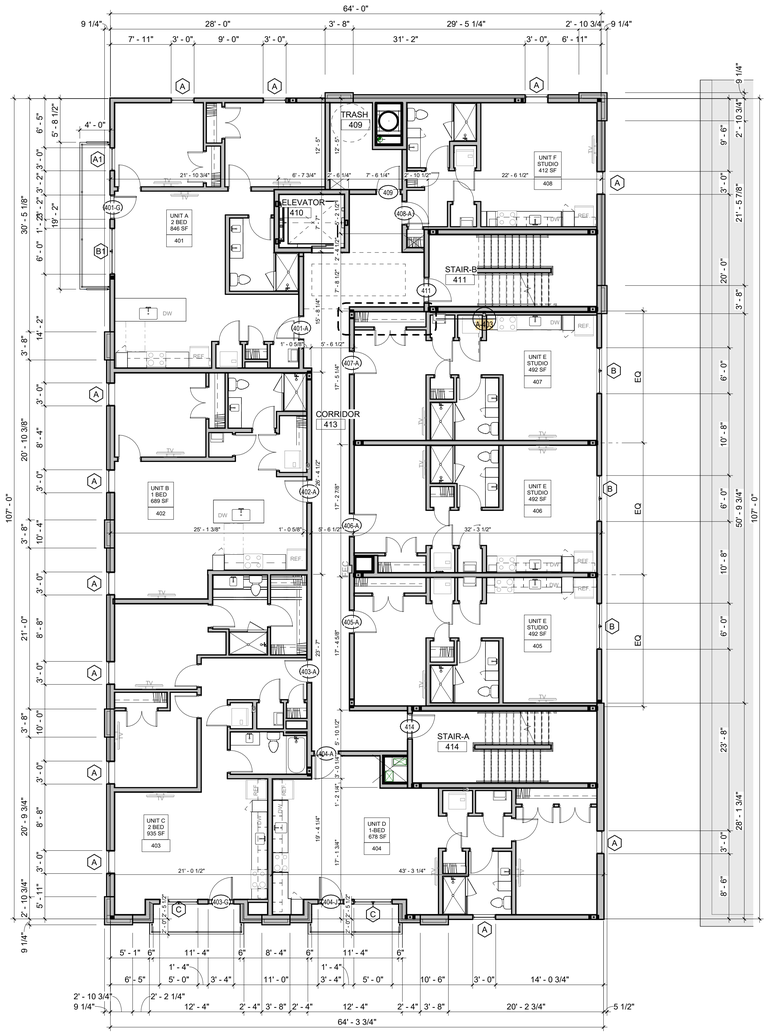
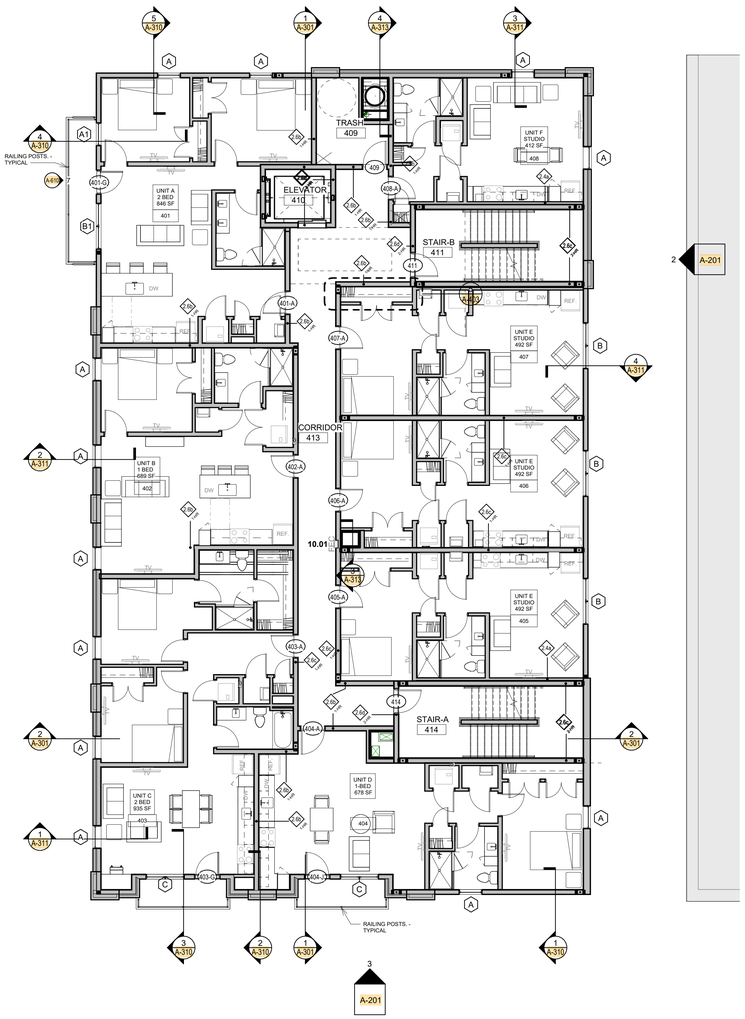


FOURTH FLOOR - DIMENSION PLAN

1/8" = 1'-0"

NORTH



FOURTH FLOOR - NOTATION PLAN

1/8" = 1'-0"

NORTH

FLOOR PLAN GENERAL NOTES

A. THE WORK SHOWN ON THESE DOCUMENTS AND THE CORRESPONDING SPECIFICATIONS, INTERFACES WITH OTHER TRADES, WHETHER OR NOT SHOWN ON THESE DOCUMENTS, WHICH IMPACTS THE WORK SHOWN HEREIN. IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO COORDINATE SUCH WORK SO AS TO BE IN COMPLIANCE WITH THE INTENT OF ALL THE PROJECT DOCUMENTS.

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C. REFER TO CODE REVIEW PLAN FOR RATED PARTITIONS AND ASSEMBLIES. SEE TYPICAL DETAIL SHEETS FOR FRAMING INFORMATION RELATED TO INTERSECTING SYSTEMS AND INSTALLATION CONDITIONS.

D. DO NOT SCALE DRAWINGS. IF DIMENSIONS ARE IN QUESTION THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING CLARIFICATION FROM THE ARCHITECT BEFORE CONTINUING CONSTRUCTION. FOR FURTHER DIMENSIONING SEE ENLARGED PLANS, SECTIONS, AND ELEVATIONS. CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB AND THE ARCHITECT MUST BE NOTIFIED OF ANY VARIATION FROM THE DIMENSIONS AND CONDITIONS SHOWN BY THESE DRAWINGS. SHOP DRAWINGS MUST BE SUBMITTED TO THE ARCHITECT FOR REVIEW BEFORE PROCEEDING WITH FABRICATION AND/OR INSTALLATION.

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Certification: 09.13.2024 BID SET

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Key Plan:

THE LANDING 3.0

NEW CONSTRUCTION
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Fort Wayne, Indiana 46802

REVISION		
No.	Date	Revision

DRAWING CONTENTS:
FOURTH FLOOR NOTATION & DIMENSION PLANS

ISSUE DATE: 09.13.2024
PROJECT NO. 23029

DRAWING NO.
A-114

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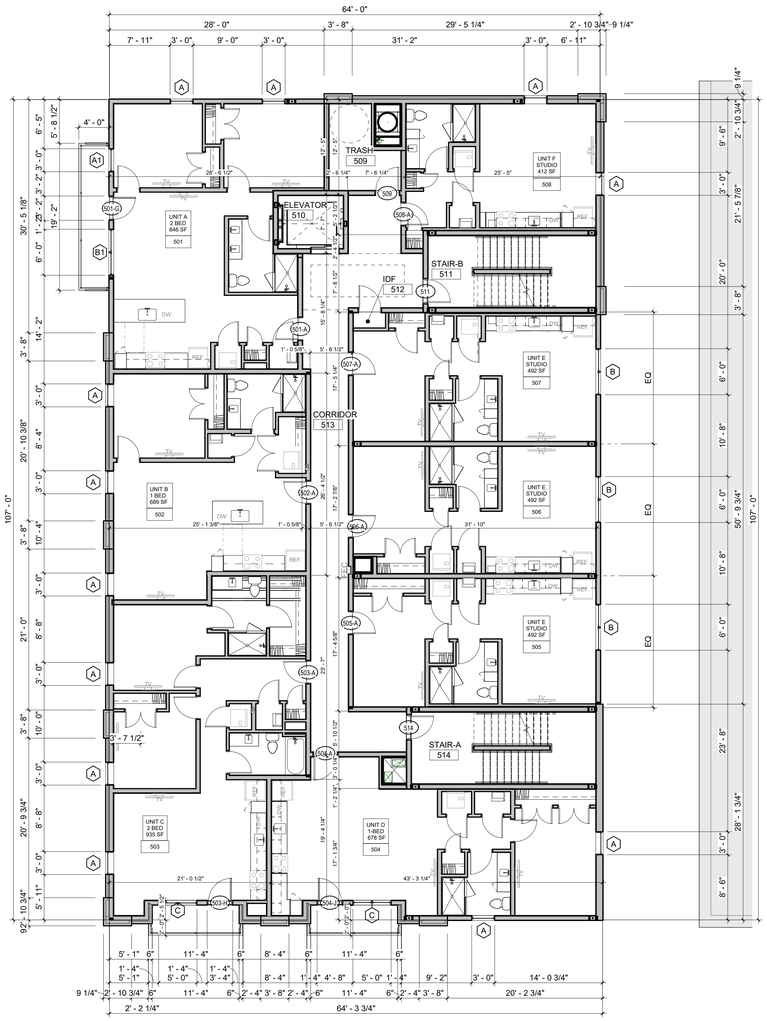
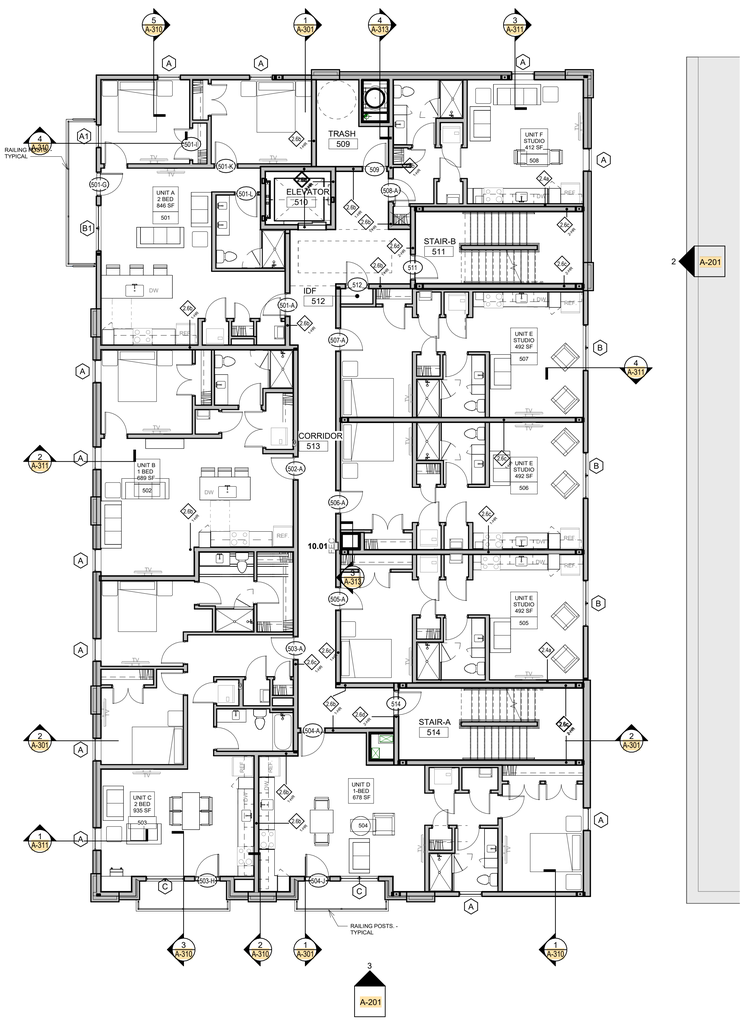


NORTH

FIFTH FLOOR - DIMENSION PLAN

1/8" = 1'-0"



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6.02c NEW FINISH FLOOR ELEVATION TO ALIGN WITH EXISTING RESTAURANT FINISHED FLOOR AT EXISTING OPENING. (F.V.)

DIV 7 - THERMAL AND MOISTURE PROTECTION
7.01 ELECTRICAL OUTLETS IN KITCHENS SHALL BE COORDINATED AS TO NOT CONFLICT WITH EACH OTHER IN BACK TO BACK KITCHENS . IN NOT CASE SHALL BACK BOX BE INSTALLED BACK TO BACK. IN SUCH LOCATIONS BACK BOX 'S SHALL BE INSTALLED ON OPPOSITE SIDES OF THE SAME STUD. SEE FIRESTOPPING SPEC FOR MORE INFO ON BACK BOX 'S IN RATED WALLS

DIV 8 - OPENINGS
8.01 CARD READER
8.02 WALL MOUNTED ADA PUSH PAD.
8.03 NARROW STYLE MULLION MOUNTED WIRELESS ADA PUSH PAD.
8.04 ACTIVE DOOR LEAF.
8.05 APARTMENT ENTRY AIPHONE SYSTEM PANEL.

DIV 9 - FINISHES
9.01 PROVIDE IN WALL BLOCKING FOR FUTURE GRAB BARS IN SHOWER. SEE TYPICAL ADA/ ANSI SHOWER GRAB BAR DTL.
9.02 PROVIDE IN WALL BLOCKING FOR FUTURE GRAB BARS IN BATHTUB. SEE TYPICAL ADA/ ANSI TUB GRAB BAR DTL.
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9.04 PROVIDE IN WALL BLOCKING FOR FUTURE GRAB BARS. SEE TYPICAL SWING UP GRAB BAR BLOCKING DTL.
9.05 FLOORING CONTRACTOR TO "FEATHER" FLOOR UP WITH APPROVED LATEX LEVELING COMPOUND AS REQUIRED TO PROVIDE ADA COMPLIANT TRANSITION FROM LVP ON BATHROOM FLOOR TO SHOWER THRESHOLD.
9.06 TILE TUB SURROUND WITH FIBERGLASS TUB. SEE FINISH LEGEND FOR MORE INFO.
9.07 DRYWALL KNEE WALL BELOW. SEE ISLAND COUNTER DETAIL FOR MORE INFO.
9.08 PROVIDE GYP BOARD EQUAL TO: MOLD TOUGH, AR FIRE CODE TYPE X, ABUSE RESISTANT GYPSUM ON ALL WALLS IN TRASH ROOM
9.09 PROVIDE FRP WALL PANLES 8' TALL 36" EITHER WAY OUT OF CORNER AT MOP SINK LOCATION.

DIV 10 - SPECIALTIES
10.01 CLOSET SHELVING. SEE CLOSET SHELVING DETAIL AND SHEET A-410.
10.02 1-HR FIRE RATED SEMI RECESSED FIRE EXTINGUISHER CABINET WITH EXTINGUISHER. SEE SPEC FOR MORE INFO.

DIV 11 - EQUIPMENT
11.01 CONTRACTOR PROVIDED & INSTALLED GARBAGE DISPOSAL. SEE MEP DRAWINGS FOR MORE INFO.
11.02 CONTRACTOR PROVIDED & INSTALLED 30" WIDE REAR CONTROL ELECTRIC RANGE SEE SPECS FOR MORE INFO.
11.02A CONTRACTOR PROVIDED & INSTALLED 30" WIDE FRONT CONTROL (ADA) ELECTRIC RANGE SEE SPECS FOR MORE INFO.
11.03 CONTRACTOR PROVIDED & INSTALLED 30" WIDE OVER THE RANGE MICROWAVE WITH RECIRCULATING EXHAUST FAN. SEE SPECS FOR MORE INFO.
11.04 CONTRACTOR PROVIDED & INSTALLED STANDARD HEIGHT 24" WIDE DISHWASHER. SEE MEP DRAWINGS FOR MORE INFO. SEE SPECS FOR MORE INFO.
11.04A CONTRACTOR PROVIDED & INSTALLED STANDARD ADA HEIGHT 24 " WIDE DISHWASHER. SEE MEP DRAWINGS FOR MORE INFO. SEE SPECS FOR MORE INFO.
11.05 CONTRACTOR PROVIDED & INSTALLED 30" WIDE REFRIGERATOR WITH ICE MAKER CONNECTIONS. SEE MEP DRAWINGS FOR MORE INFO. SEE SPECS FOR MORE INFO.
11.06 CONTRACTOR PROVIDED & INSTALLED STACKABLE ELECTRIC CLOTHES WASHER & CLOTHES DRYER. PROVIDE UTILITY CONNECTIONS AS REQUIRED SEE MEP DRAWINGS. SEE SPECS FOR MORE INFO.
11.06A CONTRACTOR PROVIDED & INSTALLED SIDE BY SIDE ELECTRIC CLOTHES WASHER & CLOTHES DRYER. PROVIDE UTILITY CONNECTIONS AS REQUIRED SEE MEP DRAWINGS. SEE SPECS FOR MORE INFO.
11.07 CONTRACTOR PROVIDED & INSTALLED 30" WIDE REFRIGERATOR WITH ICE MAKER CONNECTIONS. SEE MEP DRAWINGS FOR MORE INFO. SEE SPECS FOR MORE INFO. ,
11.09 TRASH COMPACTOR AND POWER UNITS PROVIDED AND INSTALLED BY OWNER 'S VENDOR. PROVIDE POWER AS REQUIRED. COORDINATE FINAL POWER ROUGH IN LOCATION IN FIELD WITH OWNER/VENDOR PRIOR TO ROUGH IN.BASIS OF DESIGN: MINI-MAC, APARTMENT TRASH
COMPACTOR, MODEL 3A, 120 VOLT POWER REQUIREMENT. TRASH COMPACTOR CONTRACT PERSON: SCOTT
KELSEY, PHONE: 616-283-0029
11.10 PROVIDE AND INSTALL GLASS SHOWER DOOR. SHOWER DOOR BoD: BASCO SHOWER ENCLOSURES, INFINITY SERIES-FRAMELESS 1/4" GLASS SWING & PANEL SHOWER DOOR MODEL # 1413NP, 29" WIDE DOOR OPENING, 1/4" SHOWER GUARD CLEAR GLASS, CHROME FINISH , 76" TALL UNIT, INSTALL PER MANUFACTURES WRITTEN INSTALLATION INSTRUCTIONS WITH MANUFACTURE RECOMMENDED HARDWARE, SEALS, GASKETS, SEALANTS AND ANCHORS.
11.13 EMERGENCY RESPONDERS. WALL MOUNTED KNOX BOX. COORDINATE FINAL LOCATION IN FIELD WITH AHJ.
11.14 MAIL/ PACKAGE DELIVERY. WALL MOUNTED KNOX BOX. COORDINATE FINAL LOCATION IN FIELD WITH USPS.
11.15 CONTRACTOR PROVIDED & INSTALLED 30"" WIDE RECIRCULATING RANGE/HOOD SEE SPECS FOR MORE INFO.*.*
11.16 TRASH COMPANY. WALL MOUNTED KNOX BOX. COORDINATE FINAL LOCATION IN FIELD WITH USPS.
11.17 PLANTERS BY FUTURE TENANT TO DEFINE DINING AREA.
11.18 PROVIDE AND INSTALL GLASS SHOWER DOOR SHOWER DOOR BOD: BASCO SHOWER ENCLOSURES, ROTOLO SEMI-FRAMELESS, ¼" GLASS, SLIDING BATH TUB DOOR, MODLE# 5450, 1/4" SHOWER GUARD CLEAR GLASS, CHROME FINISH , 65.5" TALL UNIT, INSTALL PER MANUFACTURES WRITTEN INSTALLATION INSTRUCTIONS WITH MANUFACTURE RECOMMENDED HARDWARE, SEALS, GASKETS, SEALANTS AND ANCHORS.
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DIV 23 - HEATING, VENTILATION, AND AIR CONDITIONING
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Certification: 09.13.2024 BID SET

ANTHONY R. BENEDICT REGISTERED No. AR11200057 STATE OF INDIANA ARCHITECT

Consultant Logo:

Key Plan:

THE LANDING 3.0

NEW CONSTRUCTION
555 S. HARRISON ST.
Fort Wayne, Indiana 46802

REVISION

No.	Date	Revision

DRAWING CONTENTS:
FIFTH FLOOR NOTATION & DIMENSION PLANS

ISSUE DATE: 09.13.2024
PROJECT NO. 23029

DRAWING NO.
A-115

Plot Time/Date: 9/12/2024 2:49:29 PM
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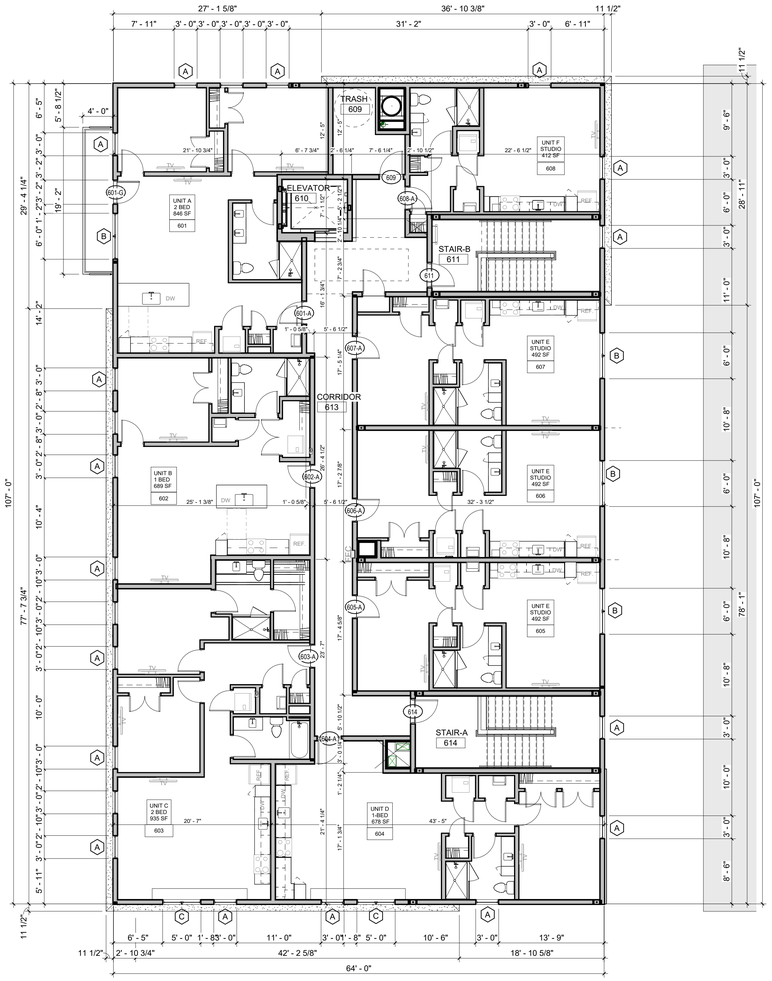
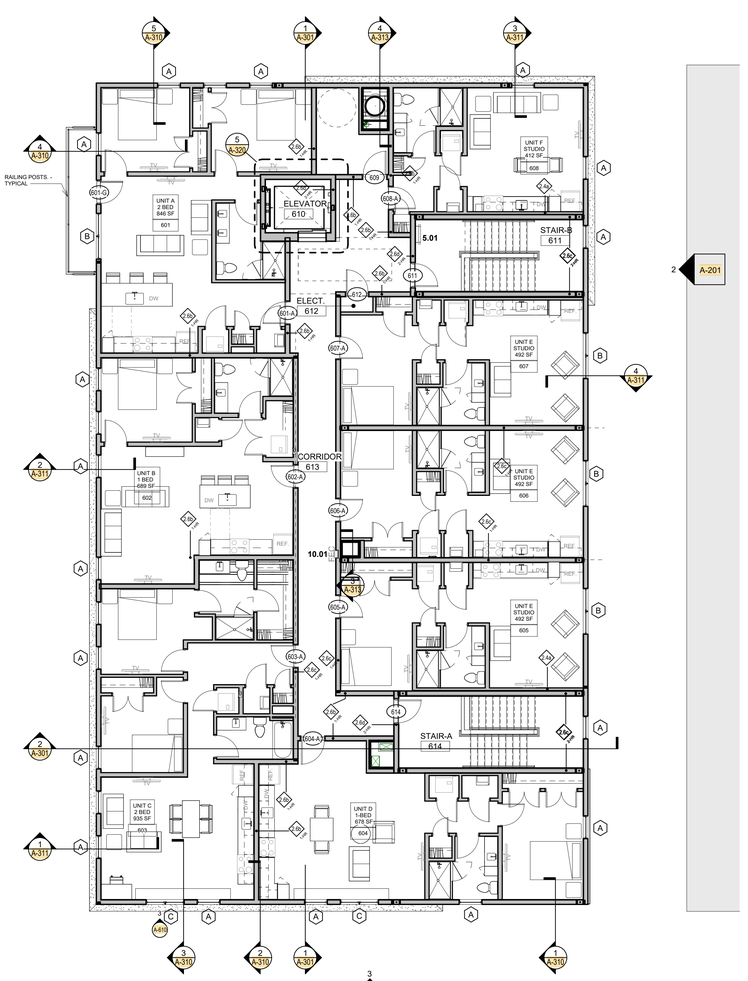


SIXTH FLOOR - DIMENSION PLAN

1/8" = 1'-0"



SIXTH FLOOR - NOTATION PLAN

1/8" = 1'-0"

NORTH

FLOOR PLAN GENERAL NOTES

A. THE WORK SHOWN ON THESE DOCUMENTS AND THE CORRESPONDING SPECIFICATIONS, INTERFACES WITH OTHER TRADES, WHETHER OR NOT SHOWN ON THESE DOCUMENTS, WHICH IMPACTS THE WORK SHOWN HEREIN. IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO COORDINATE SUCH WORK SO AS TO BE IN COMPLIANCE WITH THE INTENT OF ALL THE PROJECT DOCUMENTS.

B. GENERAL CONTRACTOR TO PROVIDE SOLID BLOCKING FOR ALL WALL MOUNTED CASEWORK, EQUIPMENT, AND ACCESSORIES, INCLUDING TOILET ACCESSORIES AS REQUIRED.

C. REFER TO CODE REVIEW PLAN FOR RATED PARTITIONS AND ASSEMBLIES. SEE TYPICAL DETAIL SHEETS FOR FRAMING INFORMATION RELATED TO INTERSECTING SYSTEMS AND INSTALLATION CONDITIONS.

D. DO NOT SCALE DRAWINGS. IF DIMENSIONS ARE IN QUESTION THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING CLARIFICATION FROM THE ARCHITECT BEFORE CONTINUING CONSTRUCTION. FOR FURTHER DIMENSIONING SEE ENLARGED PLANS, SECTIONS, AND ELEVATIONS. CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB AND THE ARCHITECT MUST BE NOTIFIED OF ANY VARIATION FROM THE DIMENSIONS AND CONDITIONS SHOWN BY THESE DRAWINGS. SHOP DRAWINGS MUST BE SUBMITTED TO THE ARCHITECT FOR REVIEW BEFORE PROCEEDING WITH FABRICATION AND/OR INSTALLATION.

E. WALL DIMENSIONS ARE FROM FACE-OF-STUD TO FACE-OF-STUD OR EXISTING FINISH TO FACE-OF-STUD. SEE TYPICAL DETAIL FOR MORE INFORMATION.

F. THE CONTRACTOR SHALL CAREFULLY STUDY AND COMPARE THE REFLECTED CEILING PLAN WITH THE LIGHTING PLANS AND MECHANICAL SUPPLY, RETURN AND EXHAUST PLANS. REPORT IN WRITING TO THE ARCHITECT ANY INCONSISTENCY HEREIN.

G. THE CONTRACTOR SHALL VERIFY AND PROVIDE ACCESS PANELS IN WALLS AND CEILINGS WHERE SERVICE AND ADJUSTMENTS TO MECHANICAL, PLUMBING, OR ELECTRICAL MAY BE REQUIRED. ACCESS PANELS SHALL BE THE FIRE RATED TYPE EQUAL TO THE WALL OR CEILING IN WHICH THEY OCCUR AND FINAL LOCATION SHOULD BE VERIFIED WITH ARCHITECT PRIOR TO INSTALLATION. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

H. PIPING INSIDE THE BUILDING SHALL BE CONCEALED IN FURRED SPACES WITH THE EXCEPTION OF PIPING IN MECHANICAL AND SERVICE ROOMS. CHASES SHALL PROVIDED FOR ALL MECHANICAL, ELECTRICAL, AND PLUMBING AS REQUIRED. SEE RESPECTIVE PLAN & ELEVATION DRAWINGS FOR COORDINATION.

I. SEE ELECTRICAL DRAWINGS AND/OR COMMUNICATIONS DRAWINGS FOR LOCATIONS OF CEILING MOUNTED SMOKE DETECTORS, SPEAKERS, NURSE CALL SYSTEMS, FIRE ALARM DEVICES, EXIT SIGNAGE, ETC. IT IS THE CONTRACTOR`S RESPONSIBILITY TO COORDINATE THESE ITEMS WITH THE REFLECTED CEILING PLAN(S)

J. SEE FINISH SCHEDULE, PLANS, & ELEVATIONS FOR LOCATIONS OF SPECIFIC FINISHES, MATERIALS, AND ACCENT WALLS

FLOOR PLAN NOTES

DIV 3 - CONCRETE
3.01 CONCRETE STOOP. SEE STRUCTURAL FOR STOOP DTL.

DIV 5 - METALS
5.01 24" WIDE WALL MOUNTED ALLUMINUM ROOF ACCESS LADDER. EQUAL TO OKEEFFE'S INC, MODLE 500 FIXED ACCESS LADDER., MILL FINISH,, INCLUDE WITH SECURITY DOOR AND PAD LOCK AND WALL BRACKETS AS REQUIERED. PROVIDE SHOP DRAWING FOR REVIEW.

DIV 6 - WOOD, PLASTICS, AND COMPOSITES
6.01 PROVIDE WOOD CASINGS AT BALCONY DOOR & WINDOW PER TYPICAL ELEVATION
6.02a NEW TREX COMPOSITE DECK OVER 2 X 6 TREATED WOOD FRAMING WITH 4 X 4 TREATED WOOD POSTS IN CONCRETE FOOTINGS. SEE TYPICAL DECK FOOTING DETAILS FOR FOUNDATION AND FRAMING NOTES. PROVIDE PRODUCT SAMPLES OF TREX DECKING MATERIALS TO OWNER/ ARCHITECT FOR APPROVAL PRIOR TO PURCHASE.
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Certification: 09.13.2024 BID SET

Consultant Logo:

Key Plan:

THE LANDING 3.0

NEW CONSTRUCTION
555 S. HARRISON ST.
Fort Wayne, Indiana 46802

REVISION		
No.	Date	Revision

DRAWING CONTENTS:
SIXTH FLOOR NOTATION & DIMENSION PLANS

ISSUE DATE: 09.13.2024
PROJECT NO. 23029

DRAWING NO:
A-116

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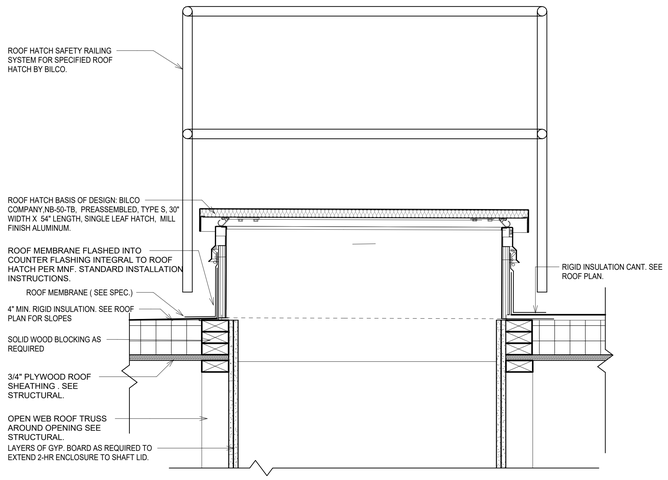


3 ROOF HATCH DTL.

1 1/2" = 1'-0"

ROOF PLAN LEGEND

- TRAFFIC PAD
- RH — ROOF HATCH
- DS — DOWNSPOUT
- ROOF DRAIN

ROOF PLAN GENERAL NOTES

A. REFER TO MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION AND ROOF PENETRATIONS.

B. THE GENERAL CONTRACTOR TO VERIFY THAT THERE IS PROPER COORDINATION BETWEEN ROOFING CONTRACTOR AND ALL OTHER TRADES SO THAT ALL ROOF LOCATIONS OF PIPING, CURBS, VENTS, DUCTS, FANS, AND OTHER ITEMS ON THE ROOF SURFACE ARE INSTALLED WITH PROPER FLASHING AND ACCESSORIES PER MANUFACTURES RECOMMENDATIONS. DRAINS ARE SET AT A "LOW POINT" AND SO THAT ALL AREAS OF ALL ROOFS SLOPE TO A ROOF DRAIN.

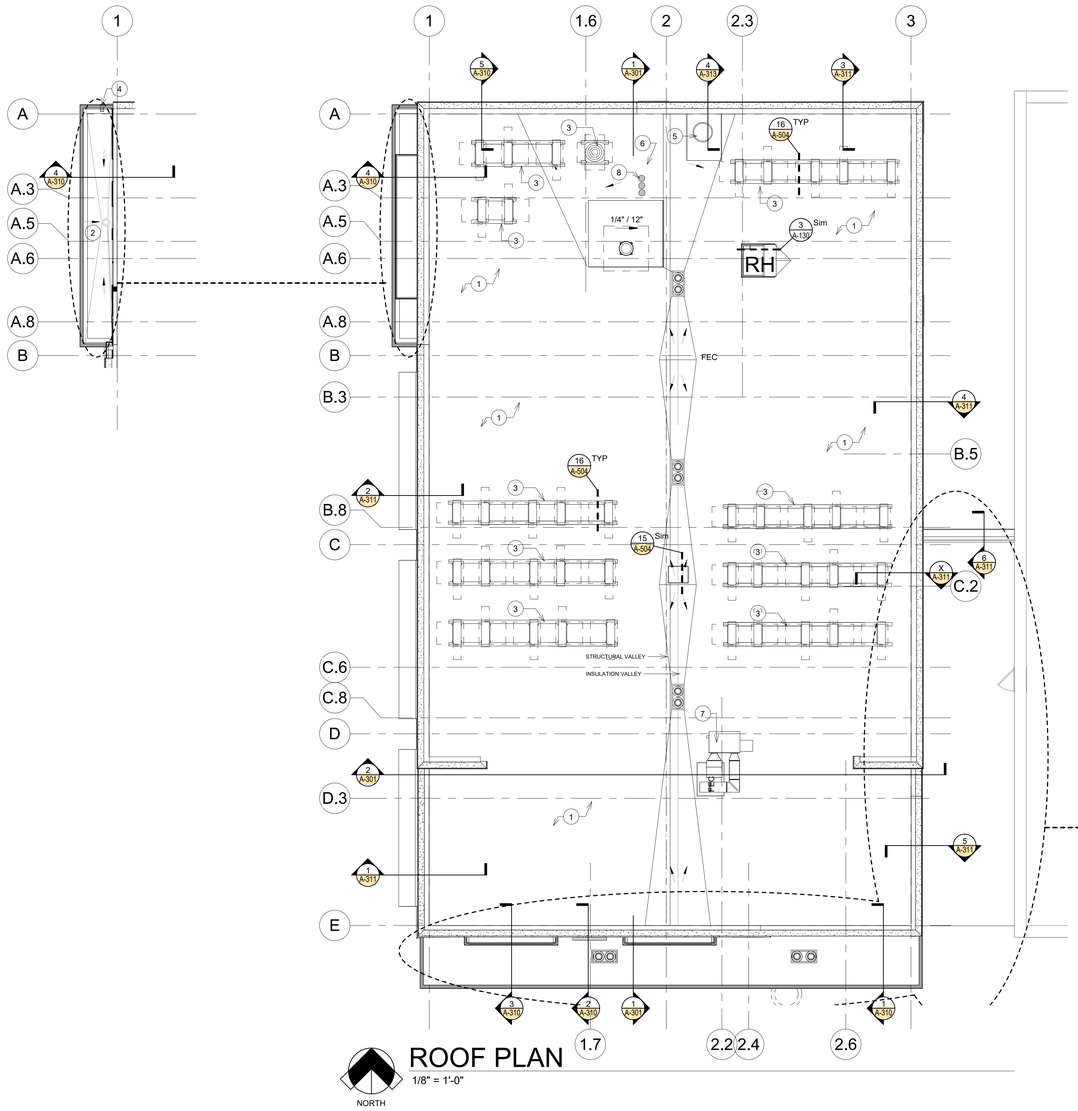
C. ROOF SLOPES SHALL BE A MINIMUM OF ¼" PER FOOT.

D. INSTALL REINFORCED WALK OFF PADS AT ALL MECHANICAL PIPING AND/OR DUCT SUPPORTS. SEE MECHANICAL FOR LOCATIONS AND SPECIFICATIONS.

E. TAPERED INSULATION REPRESENTATION IN ROOF PLANS ARE STRICTLY GRAPHIC REPRESENTATIONS. SLOPE AND QUALITY OF TAPERED INSULATION TO BE DETERMINED BY MFG RECOMMENDATIONS AND PROPOSED LAYOUT PROVIDED WITHIN SHOP DRAWING SUBMITTALS FOR ARCHITECT TO REVIEW.

ROOF PLAN NOTES

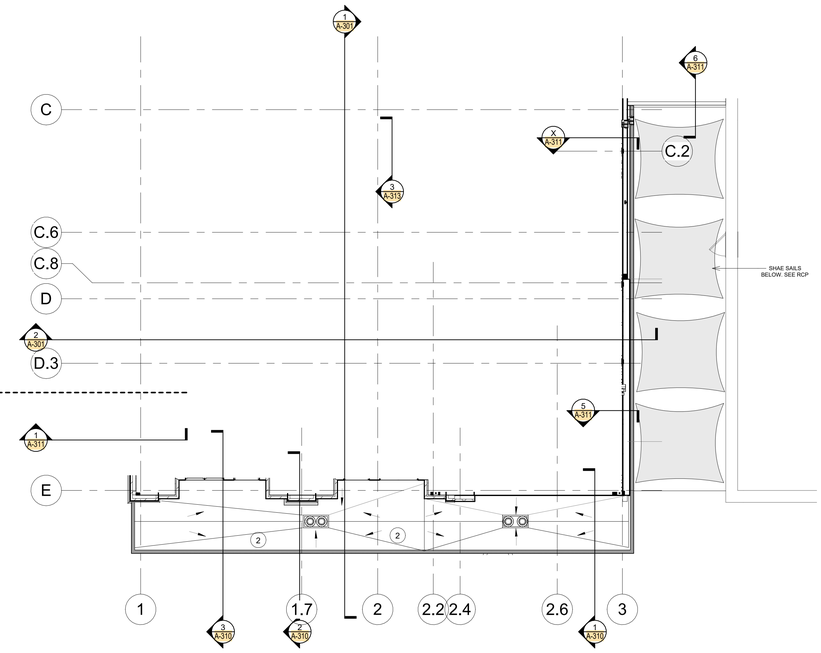
1 60 MILL (WHITE), TPO ROOF MEMBRANE OVER R-20 MIN. ROOF INSULATION OVER SLOPED WOOD DECK.
2 60 MILL (GRAY), TPO ROOF MEMBRANE OVER 1" MIN. THICKNESS . TAPERED ROOF INSULATION OVER FLAT METAL DECK. WHITE 2" MIN OF STONE BALLAST OVER MEMBRANE. SEE SPEC.
3 ROOF MOUNTED CONDENSING UNITS INSTALLED ON PATE ROOF RAILS FLASHED INTO ROOF MEMBRANE.
4 12" WIDE THROUGH WALL OVERFLOW SCUPPER.
5 TRASH CHUTE VENT THROUGH ROOF.SEE TRASH CHUTE SECTION AND SPECIFICATION.
6 ROOF MOUNTED EXAUST FAN UNITS INSTALLED ON PATE ROOF CURB FLASHED INTO ROOF MEMBRANE. SEE MECHNICAL FOR CURB INFO. SEE TYPICAL ROOF FLASHING DETAIL.
7 ROOF TOP UNITS INSTALLED ON PATE ROOF CURBS FLASHED INTO ROOF MEMBRANE. SEE MECHNICAL FOR CURB INFO. SEE TYPICAL ROOF FLASHING DETAIL.
8 ROOF MOUNTED RADON VENTS THROUGH ROOF WITH EXHAUST FAN UNITS INSTALLED VENT PIPE RISER. FLASH VENT PIPE INTO ROOF MEMBRANE. SEE RADON SYSTEM DRAWINGS FOR MORE INFO. SEE TYPICAL ROOF FLASHING DETAIL.



ROOF PLAN

1/8" = 1'-0"

NORTH



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THE LANDING 3.0

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Fort Wayne, Indiana 46802

REVISION		
No.	Date	Revision

DRAWING CONTENTS:
ROOF PLAN & DETAILS

ISSUE DATE: 09.13.2024
PROJECT NO. 23029

DRAWING NO.
A-130

Plot Time/Date: 9/12/2024 2:49:37 PM
Drawing Name: Template.rvt

REFLECTED CEILING FINISH LEGEND

GYPSUM (TYPICAL APARTMENT CEILING)
1-HR RATED GYPSUM BOARD HORIZONTAL ASSEMBLY -
ATTACHED TO UNDERSIDE OF FLOOR/ ROOF FRAMING ABOVE. SEE HORIZONTAL ASSEMBLY LEGEND
COLOR: SEE FINISH LEGEND
FINISH: SMOOTH

GYPSUM BULKHEAD
SECONDARY DRYWALL BULKHEAD FRAMING OVER SUSPENDED METAL STUD FRAMING
COLOR: SEE FINISH LEGEND
FINISH: SMOOTH

ACP-1
MANUFACTURER: ARMSTRONG COMMERCIAL CEILINGS
PRODUCT TYPE: CALLA, SQUARE LAY IN
PRODUCT NO.: 2820
SIZE: 24" x 24" X 1"
COLOR: WHITE
GRID SYSTEM: 15/16 PRELUDE XL EXPOSED TEE (WHITE)

REFLECTED CEILING PLAN GENERAL NOTES

A. CONTRACTOR TO REVIEW REFLECTED CEILING PLANS WITH MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION SYSTEMS TO COORDINATE INSTALLATION AND NOTIFY ARCHITECT IMMEDIATELY IF ANY CONFLICTS OCCUR.

B. FIELD VERIFY ANY ACCESS PANELS WITHIN THE CEILINGS/ SOFFITS WITH ARCHITECT PRIOR TO INSTALLATION. SEE SPECIFICAITONS FOR ACCESS PANELS.

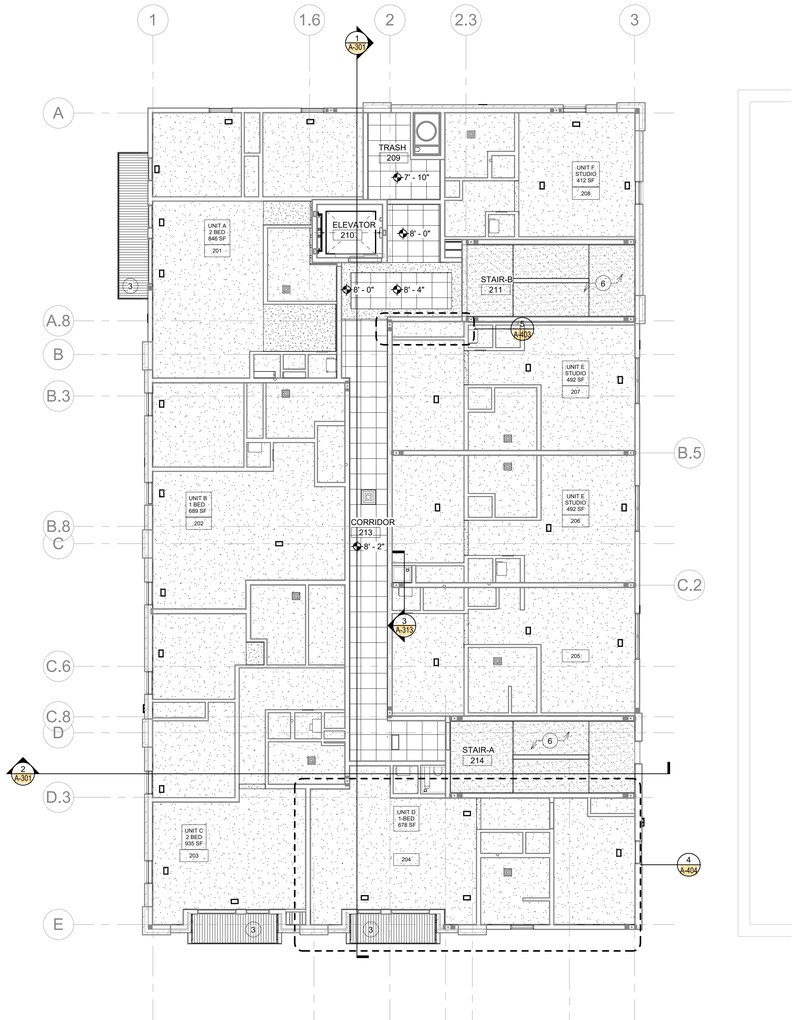
C. REFER TO ENLARGED REFLECTED CEILING PLANS FOR SPECIFIC AREAS IF REQUIRED FOR THE PROJECT.

D. FOR ADDITIONAL INFORMATION AND CEILING HEIGHT CLARIFICATION REFER TO THE INTERIOR ELEVATIONS.

E. FOR BULKHEAD FINISH COLOR INFORMATION REFER TO FINISH LEGEND.

REFLECTED CEILING PLAN NOTES

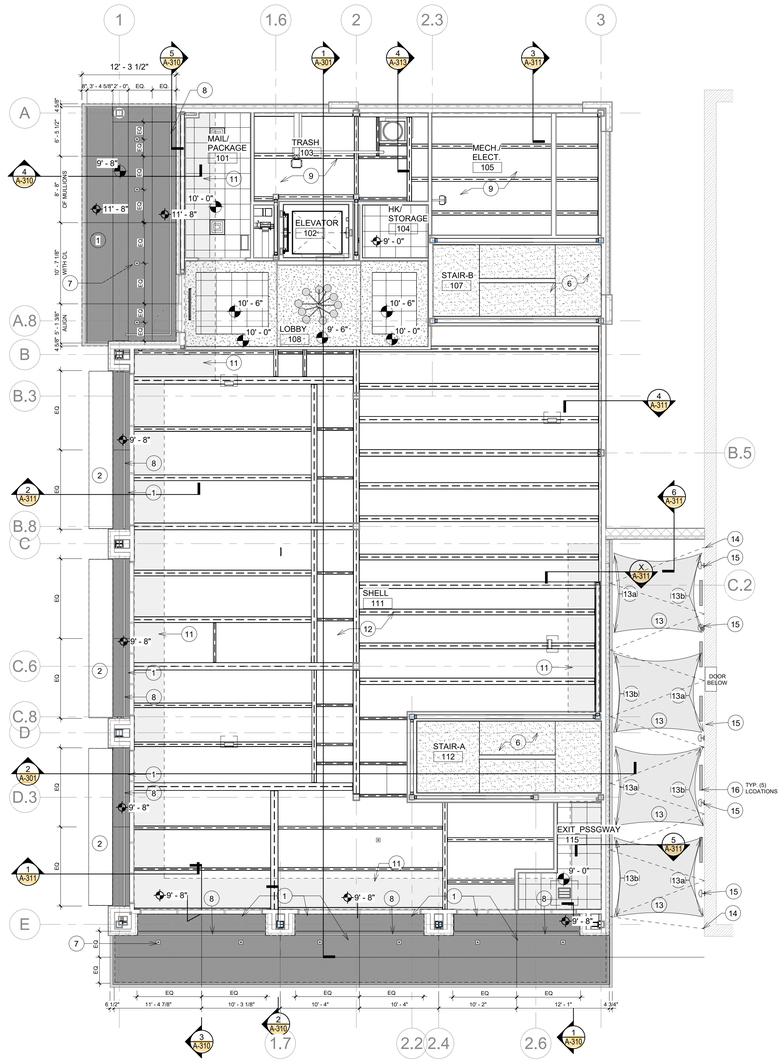
1 ACM PANEL CANOPY SOFFIT. SEE SECTION DETAILS AND SPECIFICATIONS.
2 ALUMINUM FRAME CANVAS AWNINGS.SEE WALL SECTIONS.
3 SOLID ALUMINUM SOFFIT PANELS BELOW BALCONY FRAMING.SEE BALCONY DETAIL.
4 SHAFT CEILING/ TERMINATION - 2-HR FIRE RATED GYPSUM HORIZONTAL ASSEMBLY.SEE HORIZONTAL ASSEMBLY PLAN AND SHAFT SECTIONS FOR MORE INFORMATION.
5 SECONDARY DRYWALL CEILING BULKHEAD TO CONCEAL EXHAUST DUCTWORK, ON SUSPENDED METAL CEILING FRAMING. PREP AND PAINT AS SCHEDULED.
6 DRYWALL CEILING ON BOTTOM OF STAIR FRAMING. PREP AND PAINT AS SCHEDULED.
7 4" SQUARE RECCESSED CAN LIGHTS WITH TRIM FINIHS TO MATCH ACM. SEE ELECTRICAL. (TYPOICAL IN ACM SOFFIT AREAS.)
8 ACM VENT STRIP. SEE SECTION DETAILS
9 EXPOSED STRCUTURAL STEEL TO BE PAINTED (WHITE)
10 (5TH FLOOR ONLY) SECONDARY CEILING /BULKHEAD (@ 8'-0" AFF) TO CONCEAL EXHAUST DUCTWORK. SEE 5TH FLOOR CEILING PLAN FOR MORE INFO.
11 (HATCHED) IN ALL LOCATIONS WITH STRUCTURAL STEEL PENETRATING BUILDING ENVELOPE TO SERVE CANOPYS, CONTRACTOR SHALL PROVIDE 1 1/2" OF CLOSED-CELL SPRAY FOAM WITH INTEGRAL IGNITION BARRIER FOR 48" FROM EXTERIOR WALL ON ALL STRUCTURAL STEEL, INCLUDING METAL DECK. SPRAY FOAM TO BE INSTALLED AFTER FIREPRROFING INSTALLATION.
12 OPEN EXSPODE STRUCTURE. (NO FINISH WORK)
13 12' X 12' RECTANGULAR SUNSHDE(S) (4) COLORS VARY. CONFIRM COLOR WITH ONWER PRIOR TO PURCHASE. PROVIDE STAINLESS STEEL CABLES AND MONITNG HARDWARE AS REQUIERD FOR ATTACHMENT TO BUUILDINGS.
13a SUNSHADE ATTACHEDMENT TO BE LOCATED AT ~ 114'-10'
13b SUNSHADE ATTACHEDMENT TO BE LOCATED AT ~ 111'-4"
14 (DASHED LINE) CONTRACTOR SUPPLIED AND INSTALLED OUTDOOR LED STRING LIGHTING WITH AIRCRAFT CABLE, SUSPENSION CABLE TO BE INSTALLED FROM NEW TO EXISTING BUILDING FACADES IN APPROXIMATE LOCATIONS INDICATED ON PLAN. ATTACHMENT POINTS OF STING LIGHTS ON FACADES SHALL BE MADE ~8" BELOW THE BOTTOM OF THE SHADE SAILS AT EACH LOCATION (HEIGHT VARIES) CONTRACTOR TO COORDINATE ELECTRICAL REQUIREMENTS WITH FUTURE TENANT IMPROVEMENT PROJECT PROVIDING POWER OUT OF ADJACENT TENANT SPACE.
15 CONTRACTOR PROVIDED AND INSTALLED WALL MOUNT OSCILLATING FANS EQUAL TO: ALLEN + ROTH 18-INCH 3-SPEED OSCILLATION INDOOR OUTDOOR WALL FAN. PROVIDE PRODUCT DATA TO OWNER/ ARCHITECT FOR APPROVAL PRIOR TO PURCHASE. INSTALL WITH TOP OF FAN AT ~11'-0". CONTRACTOR TO COORDINATE ELECTRICAL REQUIREMENTS WITH FUTURE TENANT IMPROVEMENT PROJECT PROVIDING POWER OUT OF ADJACENT TENANT SPACE.
16 CONTRACTOR PROVIDED AND INSTALLED WALL MOUNTED 36 " LONG NATURAL GAS INFRAMED HEATERS (6). INSTALL TOP OF HEATER AT ~ 110'-0". PROVIDE PRODUCT DATA TO OWNER/ ARCHITECT FOR APPROVAL PRIOR TO PURCHASE. CONTRACTOR TO COORDINATE NATURAL GAS REQUIREMENTS WITH FUTURE TENANT IMPROVEMENT PROJECT PROVIDING GAS PIPING OUT OF ADJACENT TENANT SPACE.



SECOND FLOOR REFLECTED CEILING PLAN

1/8" = 1'-0"

NORTH



FIRST FLOOR REFLECTED CEILING PLAN

1/8" = 1'-0"

NORTH

MKM
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435 E. Brackenridge St.
Fort Wayne, Indiana 46802
p 260.422.0783
www.MKMdesign.com

Certification: 09.13.2024 BID SET

Consultant Logo:

Key Plan:

THE LANDING 3.0

NEW CONSTRUCTION
555 S. HARRISON ST.
Fort Wayne, Indiana 46802

REVISION

No.	Date	Revision

DRAWING CONTENTS:
FIRST & SECOND FLOORS REFLECTED CEILING PLAN

ISSUE DATE: 09.13.2024
PROJECT NO. 23029

DRAWING NO.
A-131a

REFLECTED CEILING FINISH LEGEND

GYPSUM (TYPICAL APARTMENT CEILING)
1-HR RATED GYPSUM BOARD HORIZONTAL ASSEMBLY -
ATTACHED TO UNDERSIDE OF FLOOR/ ROOF FRAMING ABOVE. SEE HORIZONTAL ASSEMBLY LEGEND
COLOR: SEE FINISH LEGEND
FINISH: SMOOTH

GYPSUM BULKHEAD
SECONDARY DRYWALL BULKHEAD FRAMING OVER SUSPENDED METAL STUD FRAMING
COLOR: SEE FINISH LEGEND
FINISH: SMOOTH

ACP-1
MANUFACTURER: ARMSTRONG COMMERCIAL CEILINGS
PRODUCT TYPE: CALLA, SQUARE LAY IN
PRODUCT NO.: 2820
SIZE: 24" x 24" X 1"
COLOR: WHITE
GRID SYSTEM: 15/16 PRELUDE XL EXPOSED TEE (WHITE)

REFLECTED CEILING PLAN GENERAL NOTES

A. CONTRACTOR TO REVIEW REFLECTED CEILING PLANS WITH MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION SYSTEMS TO COORDINATE INSTALLATION AND NOTIFY ARCHITECT IMMEDIATELY IF ANY CONFLICTS OCCUR.

B. FIELD VERIFY ANY ACCESS PANELS WITHIN THE CEILINGS/ SOFFITS WITH ARCHITECT PRIOR TO INSTALLATION. SEE SPECIFICAITONS FOR ACCESS PANELS.

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D. FOR ADDITIONAL INFORMATION AND CEILING HEIGHT CLARIFICATION REFER TO THE INTERIOR ELEVATIONS.

E. FOR BULKHEAD FINISH COLOR INFORMATION REFER TO FINISH LEGEND.

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7 4" SQUARE RECCESSED CAN LIGHTS WITH TRIM FINIHS TO MATCH ACM. SEE ELECTRICAL. (TYPOICAL IN ACM SOFFIT AREAS.)
8 ACM VENT STRIP. SEE SECTION DETAILS
9 EXPOSED STRCUTURAL STEEL TO BE PAINTED (WHITE)
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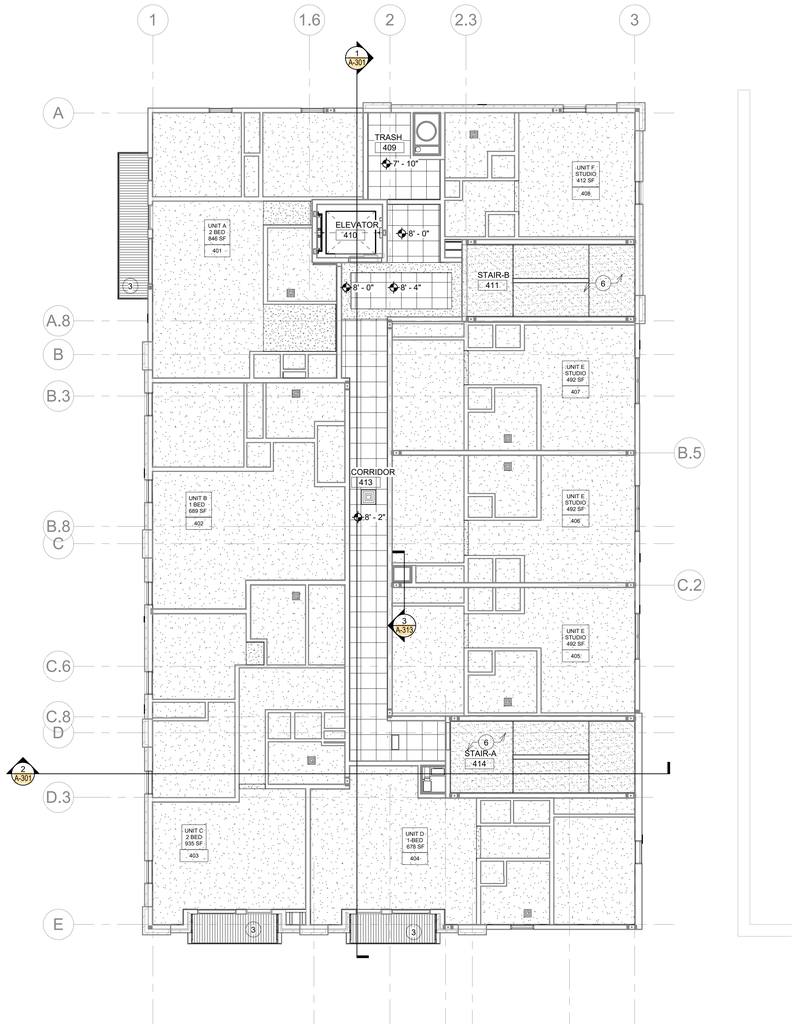
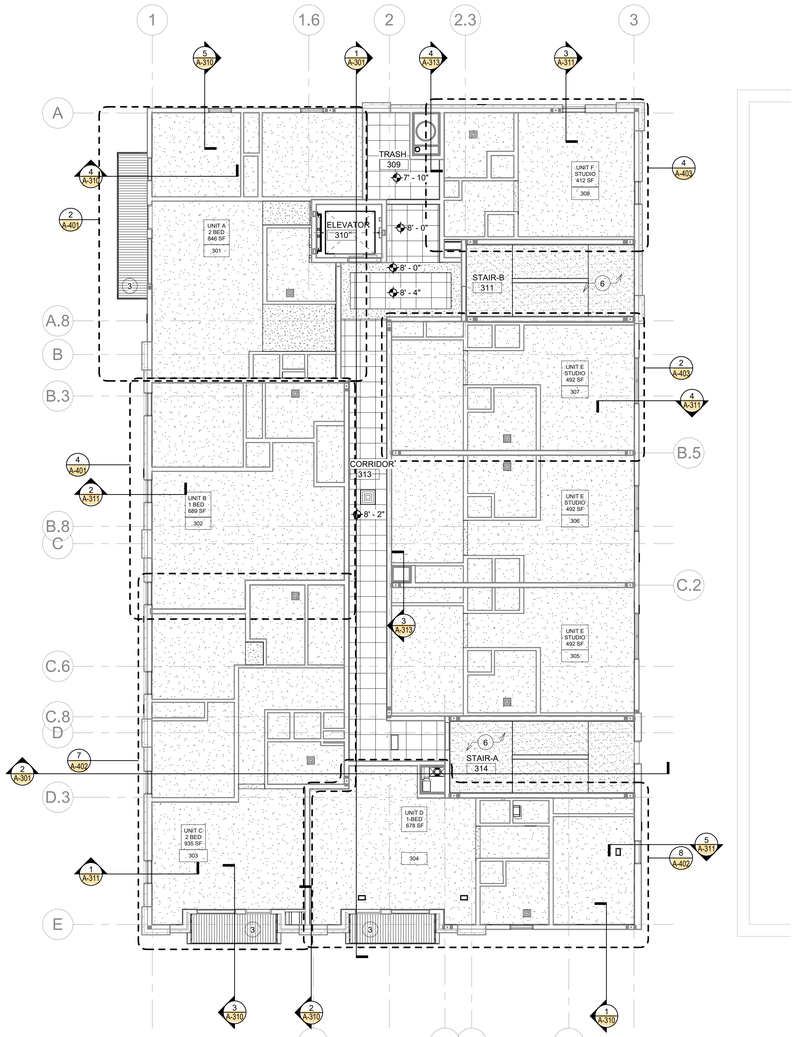


FOURTH FLOOR REFLECTED CEILING PLAN

1/8" = 1'-0"

NORTH



THIRD FLOOR REFLECTED CEILING PLAN

1/8" = 1'-0"

NORTH

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Fort Wayne, Indiana 46802
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www.MKMdesign.com

Certification: 09.13.2024 BID SET

ANTHONY R. BENEDICT REGISTERED No. AR11200057 STATE OF INDIANA ARCHITECT

Consultant Logo:

Key Plan:

THE LANDING 3.0

NEW CONSTRUCTION
555 S. HARRISON ST.
Fort Wayne, Indiana 46802

REVISION		
No.	Date	Revision

DRAWING CONTENTS:
THIRD & FOURTH FLOORS REFLECTED CEILING PLAN

ISSUE DATE: 09.13.2024
PROJECT NO. 23029

DRAWING NO.
A-131b

Plot Time/Date: 9/13/2024 2:49:43 PM
Drawing Name: Template.rte

REFLECTED CEILING FINISH LEGEND

GYPSUM (TYPICAL APARTMENT CEILING)
1-HR RATED GYPSUM BOARD HORIZONTAL ASSEMBLY - ATTACHED TO UNDERSIDE OF FLOOR/ ROOF FRAMING ABOVE. SEE HORIZONTAL ASSEMBLY LEGEND
COLOR: SEE FINISH LEGEND
FINISH: SMOOTH

GYPSUM BULKHEAD
SECONDARY DRYWALL BULKHEAD FRAMING OVER SUSPENDED METAL STUD FRAMING.
COLOR: SEE FINISH LEGEND
FINISH: SMOOTH

ACP-1
MANUFACTURER: ARMSTRONG COMMERCIAL CEILINGS
PRODUCT TYPE: CALLA, SQUARE LAY IN
PRODUCT NO.: 2820
SIZE: 24" x 24" X 1"
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GRID SYSTEM: 15/16 PRELUDE XL EXPOSED TEE (WHITE)

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E. FOR BULKHEAD FINISH COLOR INFORMATION REFER TO FINISH LEGEND.

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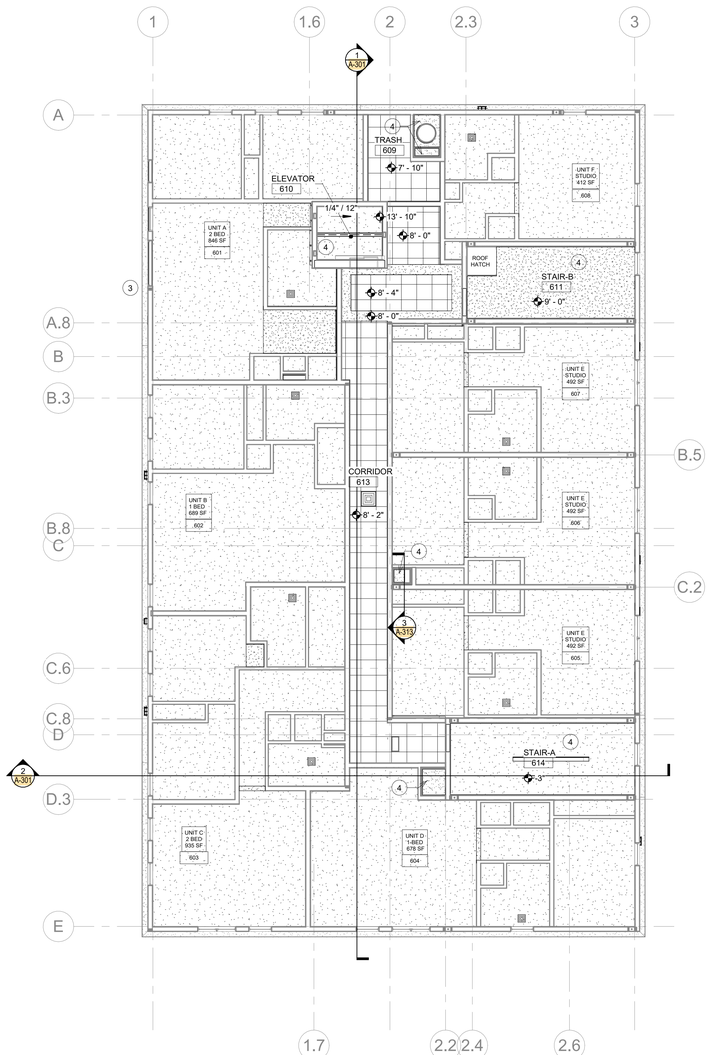
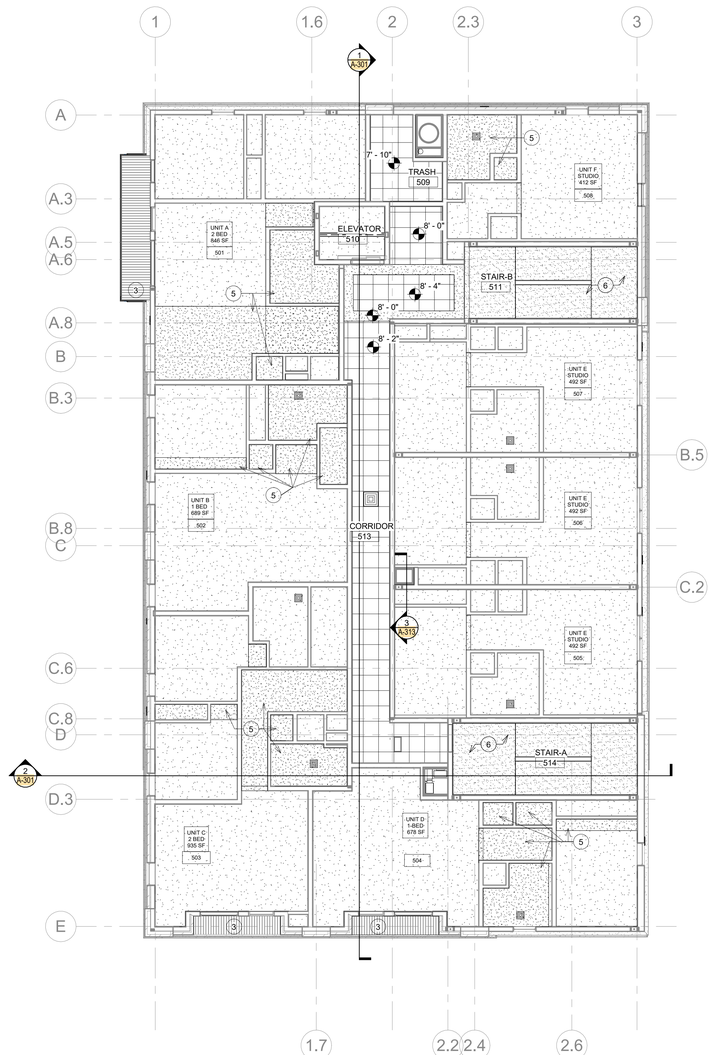


SIXTH FLOOR REFLECTED CEILING PLAN

1/8" = 1'-0"

NORTH



FIFTH FLOOR REFLECTED CEILING PLAN

1/8" = 1'-0"

NORTH

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www.MKMdesign.com

Certification: 09.13.2024 BID SET

ZACHARY R. BENDIXEN REGISTERED No. AR11200057 STATE OF INDIANA ARCHITECT

Consultant Logo:

Key Plan:

THE LANDING 3.0

NEW CONSTRUCTION
555 S. HARRISON ST.
Fort Wayne, Indiana 46802

REVISION		
No.	Date	Revision

DRAWING CONTENTS:
FIFTH & SIXTH FLOORS REFLECTED CEILING PLAN

ISSUE DATE: 09.13.2024
PROJECT NO. 23029
DRAWING NO.
A-131c

Plot Time/Date: 9/13/2024 2:49:47 PM
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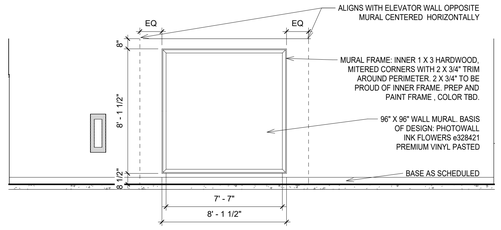
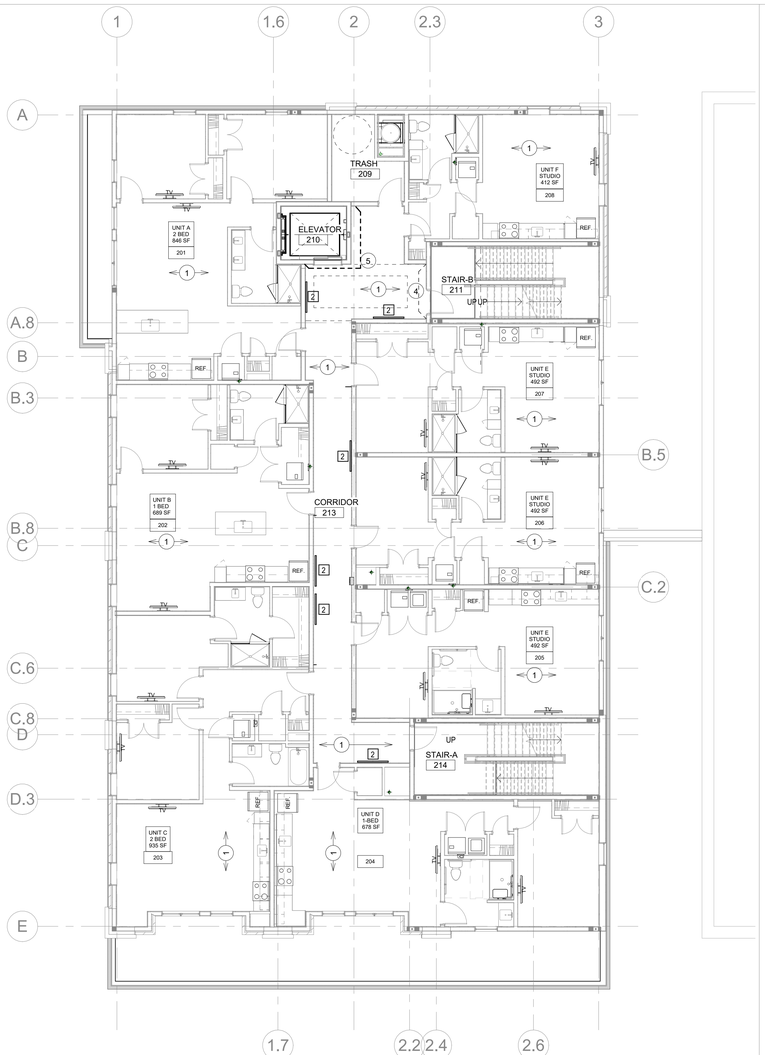


3 LOBBY WALL MURAL

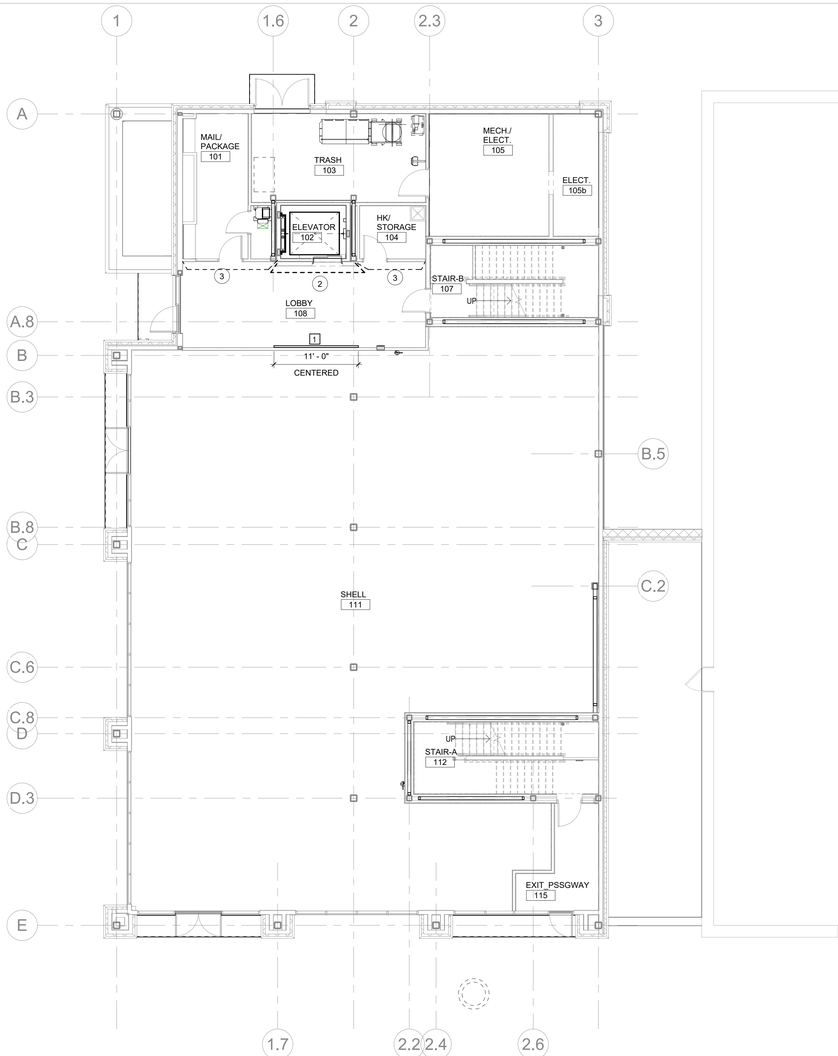
1/4" = 1'-0"



2ND - 6TH FLOOR FINISH PLAN - TYPICAL

1/8" = 1'-0"

NORTH



FIRST FLOOR FINISH PLAN

1/8" = 1'-0"

NORTH

FINISH PLAN GENERAL NOTES

A. SEE FINISH FLOOR PLAN AND STANDARD INTERIOR DETAILS FOR TRANSITION LOCATIONS AND DETAILS.

B. ALL TRANSITIONS TO MEET ADA REQUIREMENTS. CONTRACTOR RESPONSIBLE FOR FEATHERING FLOOR FOR FLUSH TRANSITION BETWEEN MATERIALS.

C. SEE FINISH FLOOR PLAN FOR FLOOR PATTERN AND INDICATION OF FLOORING MATERIAL TRANSITIONS.

D. SEE REFLECTED CEILING PLAN FOR CEILING MATERIAL LIST, CEILING HEIGHTS, BULKHEAD PAINT COLOR, AND CUBICLE CURTAINS.

E. SEE CASEWORK DRAWINGS FOR STANDARD WINDOW SILL DETAILS.

F. ALL DOOR FRAMES NEW AND EXISTING TO BE PREPPED AND PAINTED. SEE FINISH LEGEND FOR MORE INFORMATION.

FINISH PLAN NOTES	
1	ARROWS INDICATE DIRECTION OF LVP FLOORING; FLOORS TWO THROUGH SIX.
2	DASHED LINE INDICATES WALLS TO RECEIVE FULL HEIGHT WALLCOVERING WC-2.
3	DASHED LINE INDICATES WALLS TO BE PAINTED PT-2; WALLS NOT MARKED TO BE PAINTED PT-1. THIS ROOM: DOORS AND DOORFRAMES MATCH WALL PAINT.
4	DASHED LINE INDICATES WALL TO BE PAINTED PT-2; DOOR AND FRAME TO STAIRS TO BE PAINTED PT-1, FLOORS TWO THROUGH SIX.
5	DASHED LINE INDICATES WALL TO BE RECEIVE FULL HEIGHT WALLCOVERING WC-1, FLOORS TWO THROUGH SIX

ARTWORK LEGEND

1 **WALL MURAL : SEE THIS SHEET FOR MURAL ELEVATION INFORMATION; MURAL ART TO BE DETERMINED BY OWNER**

2 **48" X 48" FRAMED AND MATTED ARTWORK.**
FRAME TO BE APPROX. 2"W X 2"D, MAT TO BE 3.5"
ALL FRAMED ARTWORK TO BE INSTALLED WITH CENTER OF ART AT 62"AFF
ALL ART WORK SELECTIONS TO BE DETERMINED BY OWNER.

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Fort Wayne, Indiana 46802

REVISION		
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DRAWING CONTENTS:
FIRST & SECOND FLOORS FINISH PLAN

ISSUE DATE: 09.13.2024
PROJECT NO. 23029

DRAWING NO.
A-141a

Plot Time/Date: 9/12/2024 2:49:50 PM
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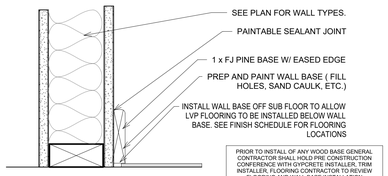

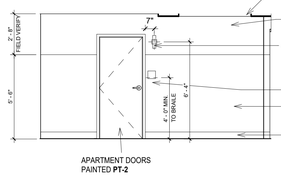

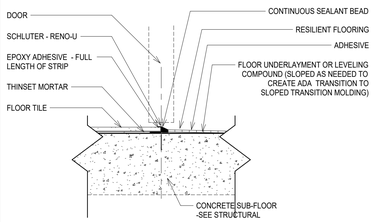

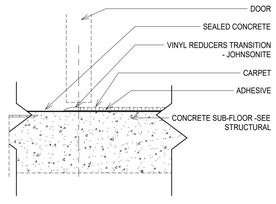

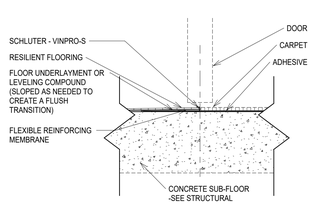

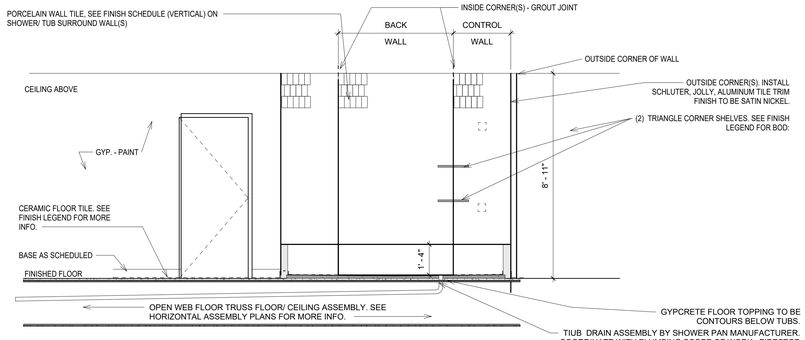

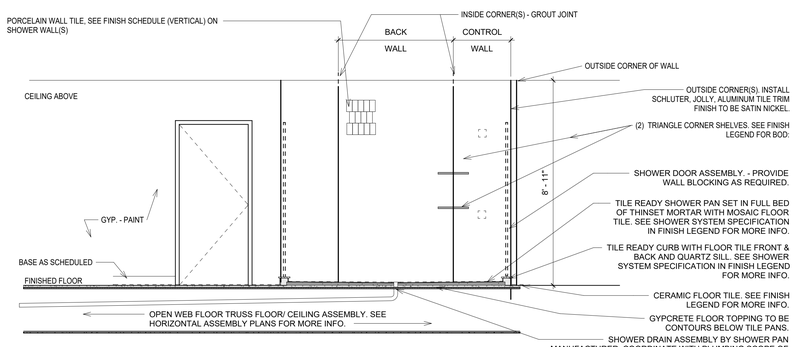

PRIOR TO INSTALL OF ANY WOOD BASE GENERAL CONTRACTOR SHALL HOLD PRE CONSTRUCTION CONFERENCE WITH GYPCRETE INSTALLER, TRIM INSTALLER, FLOORING CONTRACTOR TO REVIEW FLOORING AND WALL BASE INSTALLATION PROCEDURES TO ENSURE THAT WALL BASE OVER GYPCRETE FLOORING TOPPINGS WILL BE INSTALLED IN A MANOR TO ELIMINATE ANY POTENTIAL GAPS BETWEEN WALL BASE AND LVP FLOORING CAUSED BY VARIATIONS IN FLOOR FLATNESS.

5 WOOD WALL BASE DTL.

3" = 1'-0"

4 TYPICAL CORRIDOR WALL FOR FLOORS 2-6

1/4" = 1'-0"

5. CERAMIC TILE TO RESILIENT (SV/ LVP/ LVT)

2. CARPET TILE TO SEALED CONCRETE

3. CARPET TO RESILIENT (SV/ LVP/ LVT)

3 FLOOR TRANSITION DTL.

3" = 1'-0"

NOTE: SUBMIT FULL LINE OF MNF. STANDARD FINISHES FOR ALL TRANSITIONS TO ARCHITECT FOR SELECTION.

2 TILE SHOWER AND TUB ELEVATION

3/8" = 1'-0"

1 TILE SHOWER ELEVATION

3/8" = 1'-0"

Plot Time/Date: 9/12/2024 2:49:51 PM
Drawing Name: Template.rvt

FINISH SCHEDULE-1-BED UNIT D - ADA

ROOM NUMBER	ROOM NAME	FLOOR	BASE	WALL NORTH	WALL EAST	WALL SOUTH	WALL WEST	REMARKS
LEVEL 2 - SECOND FLOOR								
204-A	KITCHEN	LVP-1	WDB-1	PT-1	PT-1	PT-1	PT-1	4
204-B	UTILITY	LVP-1	WDB-1	PT-1	PT-1	PT-1	PT-1	
204-C	LIVING ROOM	LVP-1	WDB-1	PT-1	PT-1	PT-1	PT-1	
204-D	LAUNDRY	LVP-1	WDB-1	PT-1	PT-1	PT-1	PT-1	
204-E	CLOSET	LVP-1	WDB-1	PT-1	PT-1	PT-1	PT-1	
204-F	BEDROOM	LVP-1	WDB-1	PT-1	PT-1	PT-1	PT-1	
204-G	CLOSET	LVP-1	WDB-1	PT-1	PT-1	PT-1	PT-1	
204-H	BATH_ADA	PFT-1	WDB-1	PT-1	PT-1	PT-1	PT-1	

FINISH SCHEDULE-STUDIO UNIT E - ADA

ROOM NUMBER	ROOM NAME	FLOOR	BASE	WALL NORTH	WALL EAST	WALL SOUTH	WALL WEST	REMARKS
LEVEL 2 - SECOND FLOOR								
205-A	ENTRY	LVP-1	WDB-1	PT-1	PT-1	PT-1	PT-1	
205-B	UTILITY	LVP-1	WDB-1	PT-1	PT-1	PT-1	PT-1	
205-C	LAUNDRY	LVP-1	WDB-1	PT-1	PT-1	PT-1	PT-1	
205-D	CLOSET	LVP-1	WDB-1	PT-1	PT-1	PT-1	PT-1	
205-E	KITCHEN - ADA	LVP-1	WDB-1	PT-1	PT-1	PT-1	PT-1	4
205-F	LIVING ROOM	LVP-1	WDB-1	PT-1	PT-1	PT-1	PT-1	
205-G	BATH_ADA	PFT-1	WDB-1	PT-1	PT-1	PT-1	PT-1	
205-H	BEDROOM	LVP-1	WDB-1	PT-1	PT-1	PT-1	PT-1	

FINISH SCHEDULE REMARKS:

1. STAIRS:
FIRST FLOOR LANDING TO BE WOC-1 AND WOOD BASE WDB-1. ALL OTHER LANDINGS TO BE FLOOR: LVP-2 AND WOOD BASE: WDB-1. ALL STAIR TREADS AND RISERS TO BE VST-1, WITH WOOD STRINGERS PER STAIR DETAIL.

2. SEE FINISH PLAN FOR LOCATION OF WC-1 WALLCOVERING. PAINT DOOR AND FRAME TO HK 104 TO MATCH WALL COLOR. PAINT FRAME AND DOOR TO STAIR PT-1.

3. APARTMENTS TO RECEIVE **STS-1** COMPLETE SHOWER SYSTEM. SEE COLOR LEGEND FOR DETAILS. SHOWER WALLS ARE PWT-2. (SEE ELEVATIONS) SHOWER FLOOR IS MFT-1 MOSAIC PORCELAIN TILE.

4. KITCHENS TO RECEIVE TILE BACKSPLASH. SEE COLOR LEGEND FOR TILE. SEE ELEVATIONS AND DETAILS.

5. SEE TYPICAL WALL PAINT TREATMENT (THIS SHEET) FOR ALL APARTMENT CORRIDORS FLOORS 2-6; UNLESS NOTED OTHERWISE. SEE FINISH PLAN FOR ACCENT WALLS AND ARTWORK PLAN.

6. APARTMENTS TO RECEIVE **STS-1** COMPLETE TILE SHOWER AND TUB SURROUND SYSTEM. SEE COLOR LEGEND FOR DETAILS. SHOWER WALLS ARE PWT-2. (SEE ELEVATIONS) SHOWER FLOOR IS MFT-1 MOSAIC PORCELAIN TILE.

7. FRP PANELS TO 96" AFF. PAINT ABOVE TO CEILING.

8. PAINT EXPOSED CEILINGS PT-1.

FINISH SCHEDULE-COMMON AREA

ROOM NUMBER	ROOM NAME	FLOOR	BASE	WALL NORTH	WALL EAST	WALL SOUTH	WALL WEST	REMARKS
Not Placed								
106	ELECT	SC-1	RB-1	PT-1	PT-1	PT-1	PT-1	
LEVEL 1 - FIRST FLOOR								
101	MAIL/ PACKAGE	WOC-1	WDB-1	PT-1	PT-1	PT-1	WC-1	
102	ELEVATOR	WOC-1	---	---	---	---	---	
103	TRASH	SC-2	RB-1	FRP-1	FRP-1	FRP-1	FRP-1	7, 8
104	HK/ STORAGE	SC-1	RB-1	FRP-1	FRP-1	FRP-1	FRP-1	7
105	MECH./ ELECT.	SC-1	RB-1	PT-1	PT-1	PT-1	PT-1	
105b	ELECT.	SC-1	RB-1	PT-1	PT-1	PT-1	PT-1	
107	STAIR-B	WOC-1/ VST-1/ LVP-2	WDB-1	PT-1	PT-3	PT-1	PT-1	1
108	LOBBY	WOC-1	WDB-1	PT-4/ WC-1	PT-1	PT-1	PT-1	2
112	STAIR-A	WOC-1/ VST-1/ LVP-2	WDB-1	PT-1	PT-1	PT-1	PT-3	1
LEVEL 2 - SECOND FLOOR								
209	TRASH	SV-1	SVB-1	FRP-1	FRP-1	FRP-1	FRP-1	7
210	ELEVATOR	WOC-1	---	---	---	---	---	
211	STAIR-B	VST-1/LVP-2	WDB-1	PT-1	PT-3	PT-1	PT-1	1
213	CORRIDOR	LVP-2	WDB-1	PT-1/ PT-3	PT-1	PT-1/ PT-3	PT-1	5
214	STAIR-A	VST-1/LVP-2	WDB-1	PT-1	PT-3	PT-1	PT-1	1
LEVEL 3 - THIRD FLOOR								
309	TRASH	SV-1	SVB-1	FRP-1	FRP-1	FRP-1	FRP-1	7
310	ELEVATOR	WOC-1	---	---	---	---	---	
311	STAIR-B	VST-1/LVP-2	WDB-1	PT-1	PT-3	PT-1	PT-1	1
312	IDF	LVP-2	RB-1	PT-1	PT-1	PT-1	PT-1	
313	CORRIDOR	LVP-2	WDB-1	PT-1/ PT-3	PT-1	PT-1/ PT-3	PT-1	5
314	STAIR-A	VST-1/LVP-2	WDB-1	PT-1	PT-3	PT-1	PT-1	1
LEVEL 4 - FOURTH FLOOR								
409	TRASH	SV-1	SVB-1	FRP-1	FRP-1	FRP-1	FRP-1	7
410	ELEVATOR	WOC-1	---	---	---	---	---	
411	STAIR-B	WOC-1/ VST-1/ LVP-2	WDB-1	PT-1	PT-3	PT-1	PT-3	1
413	CORRIDOR	LVP-2	WDB-1	PT-1/ PT-3	PT-1	PT-1/ PT-3	PT-1	5
414	STAIR-A	VST-1/LVP-2	WDB-1	PT-1	PT-3	PT-1	PT-3	1
LEVEL 5 - FIFTH FLOOR								
509	TRASH	SV-1	SVB-1	FRP-1	FRP-1	FRP-1	FRP-1	7
510	ELEVATOR	WOC-1	---	---	---	---	---	
511	STAIR-B	VST-1/LVP-2	WDB-1	PT-1	PT-3	PT-1	PT-1	1
512	IDF	LVP-2	RB-1	PT-1	PT-1	PT-1	PT-1	
513	CORRIDOR	LVP-2	WDB-1	PT-1/ PT-3	PT-1	PT-1/ PT-3	PT-1	5
514	STAIR-A	WOC-1	WDB-1	PT-1	PT-3	PT-1	PT-1	1
LEVEL 6 - SIXTH FLOOR								
609	TRASH	SV-1	SVB-1	FRP-1	FRP-1	FRP-1	FRP-1	7
610	ELEVATOR	WOC-1	---	---	---	---	---	
611	STAIR-B	VST-1/LVP-2	WDB-1	PT-1	PT-3	PT-1	PT-1	1
613	CORRIDOR	LVP-2	WDB-1	PT-1/ PT-3	PT-1	PT-1/ PT-3	PT-1	5
614	STAIR-A	WOC-1	WDB-1	PT-1	PT-3	PT-1	PT-1	1

FINISH SCHEDULE- 2-BEND UNIT A

ROOM NUMBER	ROOM NAME	FLOOR	BASE	WALL NORTH	WALL EAST	WALL SOUTH	WALL WEST	REMARKS
LEVEL 3 - THIRD FLOOR								
301-A	ENTRY	LVP-1	WDB-1	PT-1	PT-1	PT-1	PT-1	
301-B	UTILITY	LVP-1	WDB-1	PT-1	PT-1	PT-1	PT-1	
301-C	CLOSET	LVP-1	WDB-1	PT-1	PT-1	PT-1	PT-1	
301-D	LAUNDRY	LVP-1	WDB-1	PT-1	PT-1	PT-1	PT-1	
301-E	KITCHEN	LVP-1	WDB-1	PT-1	PT-1	PT-1	PT-1	4
301-F	LIVING	LVP-1	WDB-1	PT-1	PT-1	PT-1	PT-1	
301-G	BALCONY	---	---	---	---	---	---	
301-H	BEDROOM	LVP-1	WDB-1	PT-1	PT-1	PT-1	PT-1	
301-I	CLOSET	LVP-1	WDB-1	PT-1	PT-1	PT-1	PT-1	
301-J	CLOSET	LVP-1	WDB-1	PT-1	PT-1	PT-1	PT-1	
301-K	CIRCUL.	LVP-1	WDB-1	PT-1	PT-1	PT-1	PT-1	
301-K	BEDROOM	LVP-1	WDB-1	PT-1	PT-1	PT-1	PT-1	
301-L	BATHROOM	PFT-1	WDB-1	PT-1	PT-1	PT-1	PT-1	3

FINISH SCHEDULE-TYPICAL 1-BED UNIT B

ROOM NUMBER	ROOM NAME	FLOOR	BASE	WALL NORTH	WALL EAST	WALL SOUTH	WALL WEST	REMARKS
LEVEL 3 - THIRD FLOOR								
302-A	KITCHEN	LVP-1	WDB-1	PT-1	PT-1	PT-1	PT-1	4
302-B	LIVING ROOM	LVP-1	WDB-1	PT-1	PT-1	PT-1	PT-1	
302-C	BEDROOM	LVP-1	WDB-1	PT-1	PT-1	PT-1	PT-1	
302-D	CLOSET	LVP-1	WDB-1	FRP-1	PT-1	PT-1	PT-1	
302-E	BATHROOM	PFT-1	WDB-1	PT-1	PT-1	PT-1	PT-1	3
302-F	LAUNDRY	LVP-1	WDB-1	PT-1	PT-1	PT-1	PT-1	
302-G	CIRCUL.	LVP-1	WDB-1	PT-1	PT-1	PT-1	PT-1	
302-H	UTILITY	LVP-1	WDB-1	PT-1	PT-1	PT-1	PT-1	

FINISH SCHEDULE-TYPICAL 2-BED UNIT C

ROOM NUMBER	ROOM NAME	FLOOR	BASE	WALL NORTH	WALL EAST	WALL SOUTH	WALL WEST	REMARKS
Not Placed								
303-N	CLOSET	LVP-1	RB-1	PT-1	PT-1	PT-1	PT-1	
LEVEL 3 - THIRD FLOOR								
303-A	ENTRY	LVP-1	WDB-1	PT-1	PT-1	PT-1	PT-1	
303-B	CLOSET	LVP-1	WDB-1	PT-1	PT-1	PT-1	PT-1	
303-C	UTILITY	LVP-1	WDB-1	PT-1	PT-1	PT-1	PT-1	
303-D	LAUNDRY	LVP-1	WDB-1	PT-1	PT-1	PT-1	PT-1	
303-E	BATHROOM	PFT-1	WDB-1	PT-1	PT-1	PT-1	PT-1	6
303-F	KITCHEN	LVP-1	WDB-1	PT-1	PT-1	PT-1	PT-1	4
303-G	BALCONY	---	---	---	---	---	---	
303-H	LIVING ROOM	LVP-1	WDB-1	PT-1	PT-1	PT-1	PT-1	
303-I	BEDROOM	LVP-1	WDB-1	PT-1	PT-1	PT-1	PT-1	
303-J	CLOSET	LVP-1	WDB-1	PT-1	PT-1	PT-1	PT-1	
303-K	BEDROOM	LVP-1	WDB-1	PT-1	PT-1	PT-1	PT-1	
303-L	BATHROOM	PFT-1	WDB-1	PT-1	PT-1	PT-1	PT-1	3
303-M	CLOSET	LVP-1	WDB-1	PT-1	PT-1	PT-1	PT-1	
303-O	HALL	LVP-1	WDB-1	PT-1	PT-1	PT-1	PT-1	

FINISH SCHEDULE-TYPICAL 1-BED UNIT D

ROOM NUMBER	ROOM NAME	FLOOR	BASE	WALL NORTH	WALL EAST	WALL SOUTH	WALL WEST	REMARKS
LEVEL 3 - THIRD FLOOR								
304-A	KITCHEN	LVP-1	WDB-1	PT-1	PT-1	PT-1	PT-1	4
304-B	LIVING ROOM	LVP-1	WDB-1	PT-1	PT-1	PT-1	PT-1	
304-C	CLOSET	LVP-1	WDB-1	PT-1	PT-1	PT-1	PT-1	
304-D	BATHROOM	PFT-1	WDB-1	PT-1	PT-1	PT-1	PT-1	3
304-E	BEDROOM	LVP-1	WDB-1	PT-1	PT-1	PT-1	PT-1	
304-F	CLOSET	LVP-1	WDB-1	PT-1	PT-1	PT-1	PT-1	
304-G	UTILITY	LVP-1	WDB-1	PT-1	PT-1	PT-1	PT-1	
304-H	LAUNDRY	LVP-1	WDB-1	PT-1	PT-1	PT-1	PT-1	
304-I	CIRCUL.	LVP-1	WDB-1	PT-1	PT-1	PT-1	PT-1	
304-J	BALCONY	---	---	---	---	---	---	

FINISH SCHEDULE-TYPICAL 1-BED UNIT E

ROOM NUMBER	ROOM NAME	FLOOR	BASE	WALL NORTH	WALL EAST	WALL SOUTH	WALL WEST	REMARKS
LEVEL 3 - THIRD FLOOR								
307-A	BEDROOM	LVP-1	WDB-1	PT-1	PT-1	PT-1	PT-1	
307-B	CLOSET	LVP-1	WDB-1	PT-1	PT-1	PT-1	PT-1	
307-C	UTILITY	LVP-1	WDB-1	PT-1	PT-1	PT-1	PT-1	
307-D	LAUNDRY	LVP-1	WDB-1	PT-1	PT-1	PT-1	PT-1	
307-E	KITCHEN	LVP-1	WDB-1	PT-1	PT-1	PT-1	PT-1	4
307-F	LIVING ROOM	LVP-1	WDB-1	PT-1	PT-1	PT-1	PT-1	
307-G	BATHROOM	PFT-1	WDB-1	PT-1	PT-1	PT-1	PT-1	3
307-H	CLOSET	LVP-1	WDB-1	PT-1	PT-1	PT-1	PT-1	
307-I	CIRCUL.	LVP-1	WDB-1	PT-1	PT-1	PT-1	PT-1	

FINISH SCHEDULE-TYPICAL 1-BED UNIT F

ROOM NUMBER	ROOM NAME	FLOOR	BASE	WALL NORTH	WALL EAST	WALL SOUTH	WALL WEST	REMARKS
LEVEL 3 - THIRD FLOOR								
308-A	ENTRY	LVP-1	WDB-1	PT-1	PT-1	PT-1	PT-1	
308-B	BATHROOM	PFT-1	WDB-1	PT-1	PT-1	PT-1	PT-1	3
308-C	UTILITY	LVP-1	WDB-1	PT-1	PT-1	PT-1	PT-1	
308-D	LIVING ROOM	LVP-1	WDB-1	PT-1	PT-1	PT-1	PT-1	
308-E	KITCHEN	LVP-1	WDB-1	PT-1	PT-1	PT-1	PT-1	4
308-E	LAUNDRY	LVP-1	WDB-1	PT-1	PT-1	PT-1	PT-1	
308-F	CLOSET	LVP-1	WDB-1	PT-1	PT-1	PT-1	PT-1	
308-G	CLOSET	LVP-1	WDB-1	PT-1	PT-1	PT-1	PT-1	

FINISH LEGEND - FLOORING

CARPET:

WALK OFF CARPET TILE
WOC-1
MANUFACTURER: INTERFACE
PRODUCT TYPE: SR899
PRODUCT NO.: 1388602500
SIZE: 19.69" X 19.69"
COLOR: IRON 104940
INSTALLATION METHOD: MONOLITHIC

APARTMENT BATHROOM PORCELAIN FLOOR TILE:

PFT-1
MANUFACTURER: DALTILE
PRODUCT TYPE: MARBLE ATTACHE, CALACATTA RECTANGLE
PRODUCT NO.: MA87
SIZE: 12" X 24" MATTE FINISH
COLOR: CALACATTA
INSTALLATION METHOD: STACKED
GROUT: EQUAL TO MAPEI FLEX COLOR CQ; COLOR FROM MFR FULL RANGE
NOTE: INSTALL FLOOR TILE ON GYPCRETE FLOORS, OVER CRACK ISOLATION MEMBRANE PER TCNA SYSTEM # F180-16. SEE SPEC FOR INSULATION MEMBRANE.
NOTE: INSTALL FLOOR TILE ON ELEVATED CONCRETE FLOORS, OVER CRACK ISOLATION MEMBRANE PER TCNA SYSTEM # F115A-16. SEE SPEC FOR ISOLATION MEMBRANE.

APARTMENT SHOWER MOSAIC FLOOR TILE:

MFT-1
MANUFACTURER: DALTILE
PRODUCT TYPE: MARBLE ATTACHE STRAIGHT JOINT 2" X 2" MOSAIC
PRODUCT NO.: MA875
SIZE: 2" X 2" X 3/8"
COLOR: CALACATTA
GROUT: EQUAL TO MAPEI FLEX COLOR CQ; COLOR FROM MFR FULL RANGE

LUXURY VINYL PLANK: (APARTMENTS)

LVP-1
MANUFACTURER: SHAW CONTRACT
PRODUCT TYPE: RESIDE 12 MIL 4094V
SIZE: 6" X 47"
COLOR: HEARTH 914106
INSTALLED STAGGERED

LUXURY VINYL TILE : (COMMON CORRIDORS)

LVP-2
MANUFACTURER: SHAW CONTRACT
PRODUCT TYPE: RESIDE 12 MIL 4094V
SIZE: 6" X 47"
COLOR: SHELTER 94710
INSTALLED STAGGERED

SEALED CONCRETE:

SC-1
NO ADDITIONAL FINISH REQUIRED BEYOND CONCRETE SPECIFICATIONS

SC-2
BASIS-OF-DESIGN: STRONGTREAD
HARDWARE CONCRETE SYSTEM , SUBTLE
SHEEN (SEE SPECS)

SHEET VINYL, HEAT WELDED:

SV-1 - BASIS-OF-DESIGN (SEE SPECS)
MANUFACTURER: MANNINGTON COMMERCIAL
PRODUCT TYPE: BIOSPEC ARMOR WITH IDEALBASE (SANITARY TRANSITION UP WALL)
COLOR: GARGOYLE OR115
SIZE: 6'-6" ROLL X 0.100" (2.54MM) THICK
REVERSE SHEET FOR SEAMING
ADHESIVE TO BE MANNINGTON COMMERCIAL FULL SPREAD V-95, TWO-PART EPOXY, AND MOS SEAM SEALER
HEAT WELD ROD TO MATCH FLOOR COLOR.
IDEALBASE COLOR TO MATCH FLOOR COLOR.

VINYL STAIR TREAD AND RISER

VST-1
MANUFACTURER: JOHNSONITE
PRODUCT TYPE: SAFE-T-RIB (VIHT) VISUALLY IMPAIRED WITH SQUARE NOSE WITH INTEGRAL VINYL INSERT CO-EXTRUDED VINYL: BLACK
VINYL COLOR: 32 PEBBLE
LANDINGS TO BE LVP-1; TOP STEP AT LANDING TO HAVE VINYL TREAD CUT INTO LVP WITH FLUSH TRANSITION.

FINISH LEGEND - BASE

RUBBER BASE:

RB-1
MANUFACTURER: JOHNSONITE
PRODUCT TYPE: TRADITIONAL VINYL 1/8" (TV)
SIZE: 4" W/ TOE
COLOR: #32 PEBBLE

WOOD BASE:

WDB-1
SIZE: 1 x 6 #1 FJ PINE
COLOR: FACTORY PRIME / FIELD PAINT, PT-1.

FINISH LEGEND - WALLS

PORCELAIN WALL TILE:

PWT-1 NOT USED

PWT-2 (APARTMENT SHOWER WALLS)
MANUFACTURER: DALTILE
PRODUCT TYPE: RETROSPACE REMIX
PRODUCT NUMBER: RS34
SIZE: 3" X 6"
COLOR: SUCCULENT- INSTALLED IN VERTICAL HALF STAGGER
GROUT: EQUAL TO MAPEI FLEX COLOR CQ; COLOR FROM MFR FULL RANGE
INSTALLED STACKED HORIZONTALLY
NOTE: SEE SHOWER AND TUB SYSTEM BELOW FOR MORE INFO.

BACKSPLASH TILE:

BKS-1 MANUFACTURER: DALTILE
PRODUCT TYPE: ZELLIGE
PRODUCT NO.: ZL11
PRODUCT SIZE: 4" X 4" STRAIGHT STACK
COLOR: GESSO
GROUT: EQUAL TO MAPEI FLEX COLOR CQ, COLOR TBD
NOTE: PROVIDE SCHLUTER JOLLY TRANSITIONS (BRUSHED NICKEL) AT ALL OUTSIDE CORNERS AND TRANSITIONS TO DRYWALL SURFACES.

PAINT: SEE SPECS

PT-1 (MAIN FIELD PAINT AND TRIM THROUGHOUT U.N.O.)
MATCH SHERWIN WILLIAMS 7008 ALABASTER

PT-2 (ALL APARTMENT DOORS AND FRAMES)
MATCH SHERWIN WILLIAMS9128 GREEN ONYX

PT-3 ACCENT WALL COLOR (APARTMENT CORRIDORS/ ELEVATOR LOBBY)
MATCH SHERWIN WILLIAMS 6177 SOFTENED GREEN (SEE ELEVATIONS FOR DIRECTION)

PT-4 (CEILINGS)
COLOR: CEILING WHITE, FLAT

***INSIDE APARTMENTS**: ALL DOORS, DOOR FRAMES, DOOR CASINGS, PAINTED WOOD WALL BASE TO BE **PT-1** .

****COMMON AREAS-**
1. PAINT ALL DOORS/ FRAMES TO TRASH ROOMS TO MATCH WALL PAINT COLOR.
2. PAINT DOOR AND FRAME TO STAIRS PT-1.
3. PAINT DOORS AND FRAMES (**APARTMENTS**) PT-2.

****ALL EXTERIOR** HM DOORS, DOOR FRAMES, TO BE PAINTED COLOR TO MATCH ADJACENT WINDOWS AND DOORS; COLOR APPROVED BY ARCHITECT FROM PHYSICAL SAMPLE SUBMITTALS

WALLCOVERING: (BASIS-OF-DESIGN)

WC-1 (ELEVATOR LOBBY FLOORS 2-6)
MANUFACTURER: KOROSEAL
PRODUCT TYPE: JENSEN
PRODUCT NO.: JN21-07
PRODUCT SIZE: 54" WIDE TYPE II VINYL
COLOR: GLACIER
CAULK TOP EDGE WHERE WALLCOVERING MEETS CEILING

WC-2 (ELEVATOR LOBBY FIRST FLOOR ENTRANCE)
MANUFACTURER: DESIGNTEX
PRODUCT TYPE: LUDLOW
PRODUCT NO.: 6693-901
PRODUCT SIZE: 54" WIDE TYPE II VINYL
COLOR: LIMESTONE
CAULK TOP EDGE WHERE WALLCOVERING MEETS CEILING

FIBERGLASS REINFORCED PLASTIC PANELS

FRP-1
MANUFACTURER: MARLITE
PRODUCT TYPE: STANDARD PEBBLED FRP PANELS
COLOR: P151 LIGHT GRAY CLASS A
INCLUDE PVC TRIM FOR ALL EDGES AND JOINTS
HEIGHT OF ALL FRP PANELS TO BE 96"; INSTALL TOP TRIM ONLY ON PANELS WHERE CEILING IS HIGHER THAN 96".

TILE SHOWER SYSTEM

SS-1
1. PROVIDE & INSTALL TILE REDI SHOWER PAN EQUAL TO: TILE REDI, 42" D X 60" W, SINGLE CURB, LEFT/ RIGHT DRAIN, ROUND DRAIN, POLISHED CHROME DRAIN, 4.5" TILE READY CURB.
   A. INSTALL SHOWER PAN IN FULL DEPTH MORTAR BED AS RECOMMENDED BY PAN MANUFACTURE. (CONTRACTOR SHALL USE MANUFACTURE APPROVED THINSET MORTARS FOR SETTING SHOWER PAN)
2. PROVIDE AND INSTALL 1/2" THICK WATERPROOF POLYURETHANE WALL BACKER BOARDS EQUAL TO: REDI WALL BOARDS FROM TOP OF SHOWER PAN TO CEILING ABOVE. INSTALL WAIL BOARDS AND SHOWER PANS WITH MANUFACTURE RECOMMENDED WATERPROOF FASTENERS AND REDI SEAL SEALANTS AS JOINTS AND PENETRATIONS AS REQUIRED BY MANUFACTURES INSTALLATION INSTRUCTIONS.
   1. IN LOCATIONS WHERE FIRE RATED WALL EXISTS AT A SHOWER WALL CONTRACTOR SHALL INSTALL MOISTURE RESISTANT GYPSUM WALL BOARD CONTOURS BEHIND SHOWER SYSTEM AND PROVIDE REDI WALL PANEL OVER THE REQUIRED LAYERS OF GYPSUM BOARD ON THE "FIRE WALL" (SEE CODE PLAN FOR MORE INFO.
3. PROVIDE AND INSTALL CERAMIC WALL TILE PWT-2 ON ALL SHOWER WALLS. (INSTALL WITH SHOWER SYSTEM RECOMMENDED THINSET MORTAR)
4. PROVIDE AND INSTALL (2) 13.5 X 9" X 9" TRIANGULAR CORNER SHELF, CHROME, EQUAL TO REDI SHELF CORNER SHELF. (SEE SHOWER ELEVATION FOR SHELF LOCATIONS)
5. PROVIDE AND INSTALL MOSAIC FLOOR TILE MFT-1 ON SHOWER FLOOR. (INSTALL WITH SHOWER SYSTEM RECOMMENDED THINSET MORTAR)
6. PROVIDE SCHLUTER JOLLY, CHROME ALUMINUM, AT ALL OUTSIDE CORNERS AND TILE TERMINATIONS
7. INSTALL REDI CURB WITH CERAMIC FLOOR TILE PFT-1 ON FRONT AND BACK OF CURB AND A 6" WIDE SOLID QUARTZ QTZ-1 CAP ON CURB.
8. GROUT SHOWER SYSTEM WITH GROUT EQUAL TO: MAPEI, FLEX COLOR CQ GOUT (COLOR TBD).
9. PROVIDE GLASS SHOWER DOOR AS NOTED ON FLOOR PLAN.

TILE TUB SURROUND SYSTEM

TSS-1
1. PROVIDE AND INSTALL 1/2" THICK WATERPROOF POLYURETHANE WALL BACKER BOARDS EQUAL TO: REDI WALL BOARDS FROM TOP OF BATH TUB TO CEILING ABOVE. . INSTALL WAIL BOARDS WITH MANUFACTURE RECOMMENDED WATERPROOF FASTENERS AND REDI SEAL SEALANTS AS JOINTS AND PENETRATIONS AS REQUIRED BY MANUFACTURES INSTALLATION INSTRUCTIONS.
   1. IN LOCATIONS WHERE FIRE RATED WALL EXISTS AT A SHOWER WALL CONTRACTOR SHALL INSTALL MOISTURE RESISTANT GYPSUM WALL BOARD CONTOURS BEHIND SHOWER SYSTEM AND PROVIDE REDI WALL PANEL OVER THE REQUIRED LAYERS OF GYPSUM BOARD ON THE "FIRE WALL" (SEE CODE PLAN FOR MORE INFO.
2. PROVIDE AND INSTALL CERAMIC WALL TILE PWT-2 ON ALL TUB SURROUND WALLS. (INSTALL WITH SHOWER SYSTEM RECOMMENDED THINSET MORTAR)
3. PROVIDE AND INSTALL (2) 13.5 X 9" X 9" TRIANGULAR CORNER SHELF, CHROME, EQUAL TO REDI SHELF CORNER SHELF. (SEE SHOWER ELEVATION FOR SHELF LOCATIONS)
4. PROVIDE SCHLUTER JOLLY, CHROME ALUMINUM, AT ALL OUTSIDE CORNERS AND TILE TERMINATIONS
5. GROUT SHOWER SYSTEM WITH GROUT EQUAL TO: MAPEI, FLEX COLOR CQ GOUT (COLOR TBD).
6. PROVIDE GLASS SHOWER DOOR AS NOTED ON FLOOR PLAN.

CASEWORK FINISH LEGEND

QUARTZ

QTZ-1 (APARTMENT COUNTERTOPS)
PRODUCT TYPE: QUARTZ
COLOR: EQUAL TO MSI CALACATTA VELENTIN
SUPPLIER CONTACT: CANYON SURFACES , OMER VINSON, 260-602-3013

CASEWORK (APARTMENT CABINETS)

MANUFACTURER: SMART CABINET
PRODUCT TYPE: MAPLE CABINET FULL SLAB / FULL OVERLAY
COLOR: SILVERGRASS (FINAL APPROVAL FROM PHYSICAL SAMPLE)

DOOR & DRAWER PULL CABINET EMTEK 86361 BAR CABINET PULL, POLISHED CHROME

SUPPLIER CONTACT: CANYON SURFACES , OMER VINSON, 260-602-3013

FINISH LEGEND - WINDOW COVERINGS

FAUX WOOD BLINDS:

BLIND-1 ALL UNITS U.N.O.
MANUFACTURER: HUNTER DOUGLAS
PRODUCT TYPE: EVERWOOD FAUX WOOD BLINDS
SLAT SIZE: 2"
MOUNTING TYPE : BETWEEN JAMB
CONTROL TYPE: PUSH/ PULL
COLOR: TBD

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Certification: 09.13.2024
BID SET

ZACHARY R. BENEDICT
REGISTERED
No. AR11200057
STATE OF INDIANA
ARCHITECT

Zachary R Benedict

Consultant Logo:

Key Plan:

THE LANDING 3.0

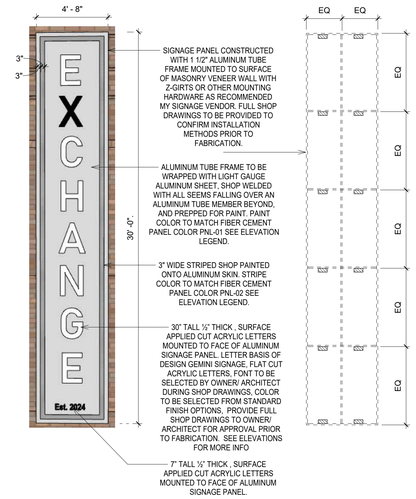
NEW CONSTRUCTION
555 S. HARRISON ST.
Fort Wayne, Indiana 46802

REVISION		
No.	Date	Revision

DRAWING CONTENTS:
FINISH SCHEDULE, REMARKS, & LEGEND

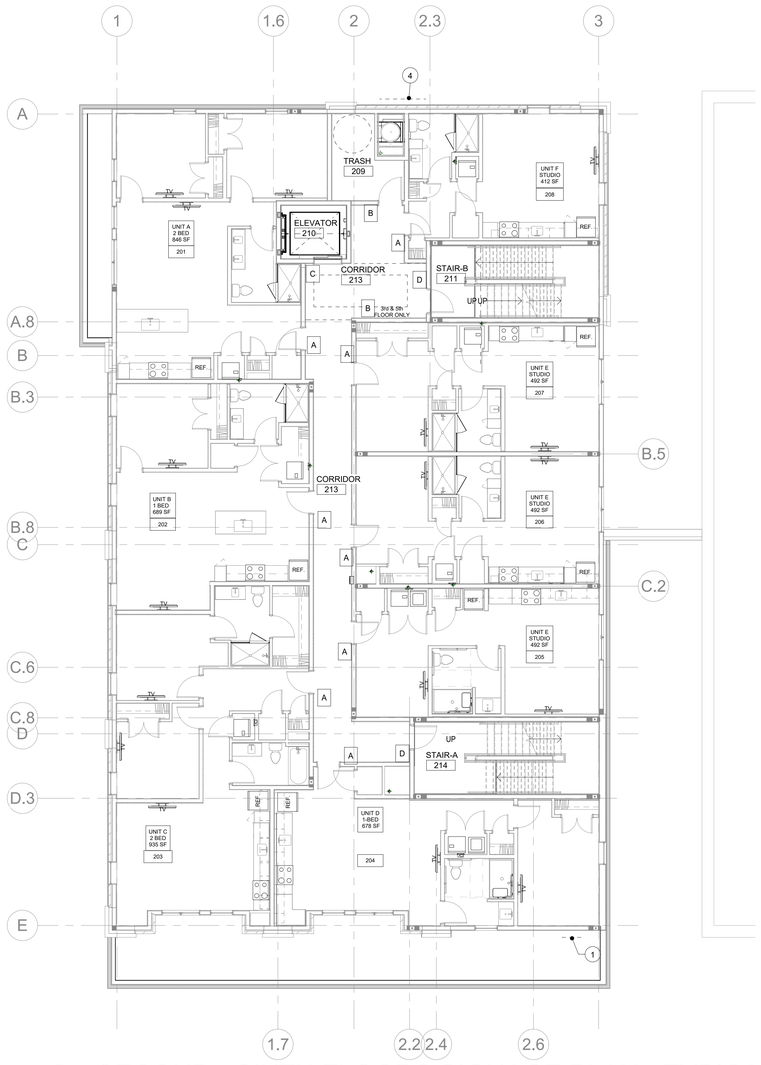
ISSUE DATE: 09.13.2024
PROJECT NO. 23029

DRAWING NO.
A-143



4 SIGNAGE PANEL ELEVATION

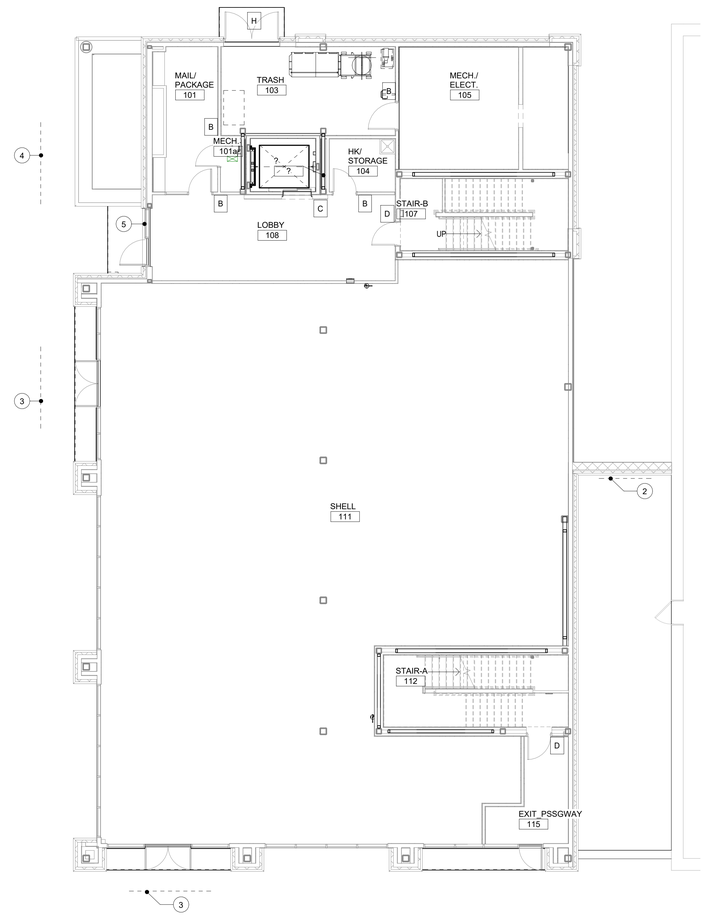
1/4" = 1'-0"



NORTH

SECOND - SIXTH FLOORS SIGNAGE PLAN - TYPICAL

1/8" = 1'-0"

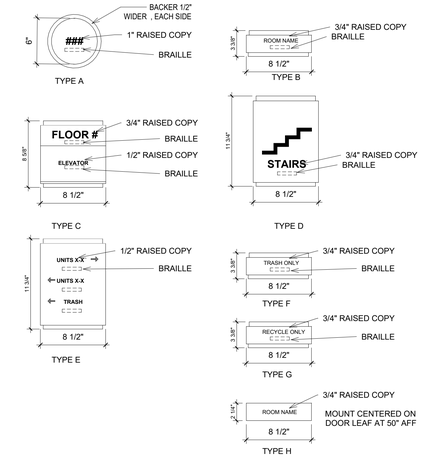


NORTH

FIRST FLOOR SIGNAGE PLAN

1/8" = 1'-0"

PHASING/ ICRA PLAN NOTES	
1	36" TALL ½" THICK , SURFACE APPLIED CUT ACRYLIC LETTERS MOUNTED TO BUILDING WALL. BASIS OF DESIGN GEMINI SIGNAGE, FLAT CUT ACRYLIC LETTERS, FONT TO BE SELECTED BY OWNER/ ARCHITECT DURING SHOP DRAWINGS, COLOR TO BE SELECTED FROM STANDARD FINISH OPTIONS. PROVIDE FULL SHOP DRAWINGS TO OWNER/ ARCHITECT FOR APPROVAL PRIOR TO FABRICATION. SEE ELEVATIONS FOR MORE INFO
2	~42" X 42" BACK-LIT " BYSON DECK" SIGNAGE PANEL INTEGRATED INTO GREEN WALL PANELS. COORDINATE SIGNAGE DESIGN REQUIREMENTS WITH ADJACENT TENANT. CONTRACTOR TO COORDINATE ELECTRICAL REQUIREMENTS WITH FUTURE TENANT IMPROVEMENT PROJECT PROVIDING POWER OUT OF ADJACENT TENANT SPACE.
3	"FUTURE" SURFACE MOUNTED TENANT SIGNAGE ON FACE OF CANOPY. PROVIDE POWER IN FACE OF CANOPY AS NOTED. SEE ELECTRICAL.
4	30" TALL X 4'-8" WIDE SURRFACE APPLIED SIGNAGE PANLE. SEE SIGNAGE PANLE DETAIL FOR MORE INFO.
5	PROVIDE AND INSTALL SURFACE APPLIED VINYL GRAPHIC INDIDATEING STREET ADRESS, BUUILDING NAME AND ORIGNIZATION CONTACT INFO. CONFIRM DETAILS IN SHWOP DRAWINGS TO ARCHITECT FOR REVIEW.



NOTE: BASIS OF DESIGN: TWO LAYER SIGNAGE TYPE, EACH LAYER 1/8 " THICK, FLAT PANEL, NO FRAME, SQUARE EDGE, SEPARATE COLORS TO BE SELECTED FOR FRONT PANEL AND (ACCENT) BACK PANEL. FONT COLOR WILL HAVE 30/ 70 CONTRAST WITH FRONT PANEL COLOR. (COLORS TO BE SELECTED FROM MANUFACTURE FULL RANGE), RASTER STYLE SIGNS WITH TACTILE LETTERS RAISED 1/32" MIN FROM FACE OF SIGN, GRADE II ADA COMPLIANT BRAILLE, TAPE MOUNTED. SIGNAGE VENDOR TO PROVIDE SHOP DRAWINGS FOR OWNER'S ARCHITECT TO REVIEW TO CONFIRM FONT, ROOM NAMES, ROOM NUMBERS, SIGNAGE COLORS, ETC.

3 SIGNAGE LEGEND

1 1/2" = 1'-0"

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DRAWING CONTENTS: SIGNAGE PLANS

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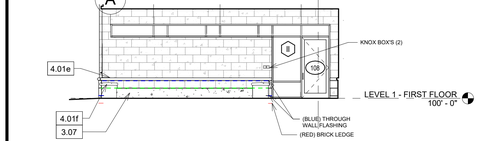
PROJECT NO. 23029

DRAWING NO. A-161

Plot Time (Date): 9/12/2024 - 2:49:54 PM
Drawing Name: Template.rvt

3 SOUTH ELEVATION

1/8" = 1'-0"



4 WEST ELEVATION

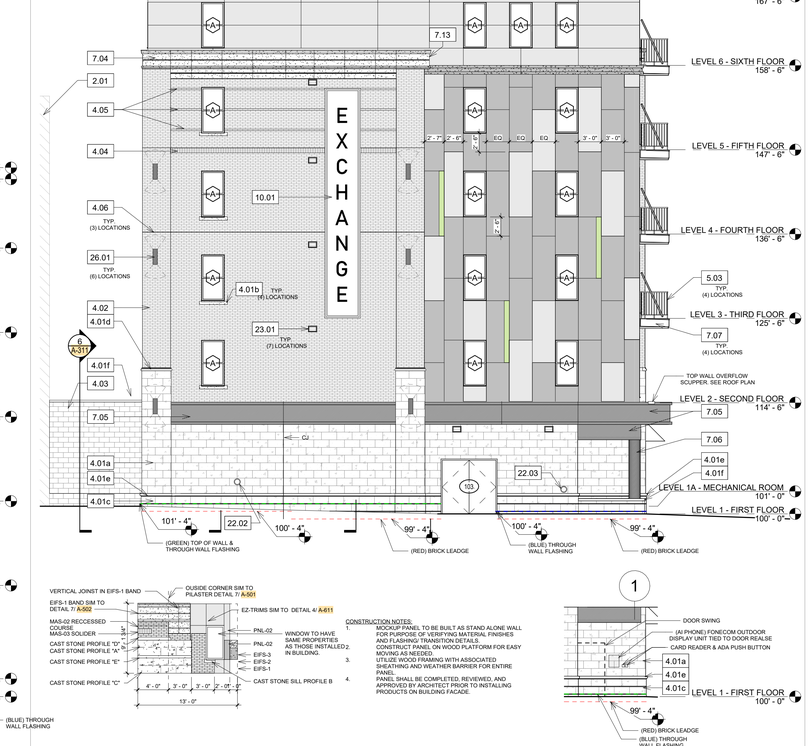
1/8" = 1'-0"

5 BALCONY SIDE ELEV. - TYP

1/8" = 1'-0"

2 EAST ELEVATION

1/8" = 1'-0"



8 MOCK UP ELEVATION

1/8" = 1'-0"

1 NORTH ELEVATION

1/8" = 1'-0"

EXTERIOR BUILDING ELEVATION FINISH LEGEND

MASONRY

MAS-01: FACE BRICK, 3-COLOR BLEND, MODULAR SIZE, 1/2 RUNNING BOND PATTERN, EQUAL TO: BELDEN RUBICO, BLEND, VELOUR, MODULAR

MAS-02: FACE BRICK, (SOLDIER COURSE) EQUAL TO : "DARKEST CHARCOAL COLOR" FROM MAS-01 COLOR BLEND.

MAS-03: FACE BRICK, (RECESSED COURSE) EQUAL TO: "MIDDLE BROWN COLOR" FROM MAS-01 COLOR BLEND.

NOTE: ALL MASONRY MORTAR ON PROJECT SHALL BE COLOR: PLAIN
NOTE: ALL MASONRY CONTROL JOINT SEALANT SHALL BE EQUAL TO: DOW 795 SILICONE: NATURAL STONE COLOR

CAST STONE

CS-01: EQUAL TO CUSTOM CAST STONE: OLIVE BUFF (SEE SECTIONS AND PROFILE LEGENDS)

SPLIT FACE CMU

CMU-1: 8 X 12 X 16 SPLIT FACE CMU EQUAL TO: COUNTY BUILDING PRODUCTS, SPLIT FACE CMU, COLOR SANDSTONE. (COLOR TO BE CONFIRMED WITH SAMPLES DURING SHOP DRAWINGS.)

EXTERIOR INSULATION FINISH SYSTEMS

EIFS-1: LIMESTONE FINISH, COLOR TO MATCH CAST STONE: COLOR TO BE SELECTED BY ARCHITECT FROM SHERWIN WILLIAMS PANT COLOR TO MATCH CS-1

EIFS-2: EIFS SYSTEM BANDING, LIMESTONE FINISH, COLOR TO BE SELECTED BY ARCHITECT FROM SHERWIN WILLIAMS PANT COLOR TO MATCH FIBER CEMENT WALL PANEL PNL-02

EIFS-3: EIFS SYSTEM BANDING, LIMESTONE FINISH, COLOR TO BE SELECTED BY ARCHITECT FROM SHERWIN WILLIAMS PANT COLOR: TBD

ACM BANDING

ACM RAINSCREEN SYSTEM: SEE ELEVATIONS AND SECTIONS DETAILS. COLOR EQUAL TO: ALUCABOND: ANODIC CLEAR MICA COOL-30

FIBER CEMENT WALL PANEL SYSTEM

- BASIS OF DESIGN JAMES HARDIE, PANEL SIDING WITH EASY TRIM REVEAL SYSTEMS, SEE BUILDING ELEVATIONS AND DETAILS FOR PANEL AND REVEAL LOCATIONS.

PNL-01: HARDIE PANEL - SMOOTH TEXTURE, MANUFACTURER STANDARD COLOR: LIGHT MIST

PNL-02: HARDIE PANEL - HARDIE PANEL - SMOOTH TEXTURE, MANUFACTURER STANDARD COLOR: GRAY SLATE

PNL-03: HARDIE PANEL - HARDIE PANEL - SMOOTH TEXTURE, FIELD PAINT TO MATCH "GREEN" ON 111 W. COLUMBIA ST. BUILDING. COLOR TO BE SELCTED SHERWIN WILLAMS STANDARD COLORS

PNL-04: HARDIE PANEL - HARDIE PANEL - SMOOTH TEXTURE, FIELD PAINT TO MATCH MAS-02 COLOR TO BE SELCTED SHERWIN WILLAMS STANDARD COLORS

BALCONY WITH ALUMINUM RAILING SYSTEM

- DECKING: WATERTIGHT ALUMINUM DECKING SYSTEM. SEE BALCONY SECTION FOR MORE INFO.
- RAILING: PREFINISHED ALUMINUM VERTICAL PICKET RAILING SYSTEM. SEE BALCONY SECTION FOR MORE INFO
- FASCIA: PREFINISHED ALUMINUM FASCIA, COLOR TO MATCH FIBER CEMENT PANEL SYSTEM PNL-01. : COATED METAL GROUP: CITY SCAPE

PREFINISHED BREAK METAL BASIS OF DESIGN:

- BASIS OF DESIGN COLORS FOR BREAK METALS ARE AS FOLLOWS
  1. BREAK METAL ADJACENT STOREFRONTS, WINDOWS, 6TH FLOOR ROOF COMINGS AND BALCONY FASCIA AND SOFFITS : COATED METAL GROUP: CITY SCAPE
  2. BREAK METAL ADJACENT EIFS-1 BANDING AT 6TH FLOOR WINDOWS : COATED METAL GROUP: SIERRA TAN

ELEVATION/ WALL SECTION NOTES

DIV 2 - EXISTING CONDITIONS
2.01 ADJACENT, EXISTING BUILDING TO REMAIN

DIV 3 - CONCRETE
3.01 CONCRETE FOUNDATION. SEE STRUCTURAL.
3.02 CONCRETE STOOP. SEE STRUCTURAL.
3.03 CONCRETE FLOOR SLAB. SEE STRUCTURAL.
3.04 CONCRETE SIDEWALK. SEE CIVIL.
3.05 CONCRETE FLOOR SLAB OVER VAPOR BARRIER. SEE STRUCTURAL FOR MORE INFO.
3.06 "1" GYPSUM CEMENT UNDERLAYMENT OVER PLYWOOD SUBFLOOR. SEE HORIZONTAL ASSEMBLY LEGEND FOR MORE INFO
3.07 EXPOSED CONCRETE FOUNDATION WALL IN PLANTER. CONTRACTOR TO INSTALL FLUID APPLIED CONCRETE WATERPROOFING MEMBRANE (EQUAL TO WR MEADOWS 836 SL) OVER EXPOSED FOUNDATION WALL BELOW PROPOSED PLANTER GRADE. WATERPROOFING MEMBRANE

DIV 4 - MASONRY
4.01a CAST STONE VENEER (PROFILE "A") . SEE EXTERIOR FINISH LEGEND.
4.01b CAST STONE SILL (PROFILE "B") . SEE CAST STONE PROFILE LEGEND.
4.01c CAST STONE VENEER (PROFILE "C") . SEE EXTERIOR FINISH LEGEND.
4.01d CAST STONE ACCENT BANDING (PROFILE "D") . SEE CAST STONE PROFILE LEGEND.
4.01e CAST STONE ACCENT BANDING (PROFILE "E") . SEE CAST STONE PROFILE LEGEND.
4.01f CAST STONE CAP (PROFILE "F") . SEE CAST STONE PROFILE LEGEND.
4.02 MASONRY BRICK VENEER (MAS-01). SEE EXTERIOR FINISH LEGEND."
4.03 SPLIT FACE CONCRETE MASONRY UNITS. SEE EXTERIOR FINISH LEGEND.
4.04 MASONRY BRICK VENEER SOLDIER COURSE. (MAS-02) SEE EXTERIOR FINISH LEGEND.
4.05 "(1) STANDARD MASONRY COURSE, RECESSED 3/4" FROM FACE OF MAIN FIELD OF BRICK (MAS-03). SEE EXTERIOR FINISH LEGEND."
4.06 STEEL BRICK RELIEF ANGLE WITH BACKER ROD & SEALANT. SEE PLATFORM FRAMING DETAILS AND STRUCTURAL FOR MORE INFO.

DIV 5 - METALS
5.01 STRUCTURAL STEEL FRAMING. SEE STRUCTURAL.
5.02 2 X 6 METAL STUD WALL @ 16" O.C.
5.03 PREFINISHED ALUMINUM RAILING SYSTEM. SEE BALCONY DETAIL FOR BASIS OF DESIGN.."

DIV 6 - WOOD, PLASTICS, AND COMPOSITES
6.01 ACM PANEL SYSTEM CANOPY. SEE EXTERIOR DETAILS AND STRUCTURAL FOR MORE INFO.
6.02 2 -FIRE RATED EXTERIOR BEARING WALL PER IBC TABLE 601 (UL DESIGN # 349) SEE WALL SECTIONS AND UL ASSEMBLIES.
6.03 1-HR FIRE RATED OPEN WEB FLOOR TRUSS ASSEMBLY. SEE HORIZONTAL ASSEMBLY LEGENDS AND PLATFORM FRAMING DETAILS FOR MORE INFO.
6.04 2 X 6 FIRE RESISTANT WOOD STUD WALL . SEE STRUCTURAL FOR MORE INFO
6.04a 2 X 10 FIRE RESISTANT WOOD STUD WALL . SEE STRUCTURAL FOR MORE INFO
6.05 1-HR FIRE RATED OPEN WEB ROOF TRUSS ASSEMBLY. SEE HORIZONTAL ASSEMBLY LEGENDS AND PLATFORM FRAMING DETAILS FOR MORE INFO.
6.06 INTERIOR WOOD STUD PARTITION WALL. SEE FLOOR PLAN AND WALL TYPES FOR MORE INFO.
6.07 FIREBLOCKING IN STUD WALLS MORE THAN 10' IN HEIGHT . - TYPICAL ENTIRE PROEJCT
6.08 1x6 FJ PINE CAP W/ EASED EDGES. FIELD PAINT TO MATCH WALL BASE.
6.09 1-HR FIRE RATED 2x10 FLOOR FRAMING ASSEMBLY. SEE HORIZONTAL ASSEMBLY LEGENDS AND PLATFORM FRAMING DETAILS FOR MORE INFO.
6.10 PROVIDE SOLID WOOD BLOCKING IN WALL FOR SUN SHADE AND STING LIGHT HARDWARE ATTACHMENT. SEE RCP FOR MORE INFO.

DIV 7 - THERMAL AND MOISTURE PROTECTION
7.01 2" RIGID FOUNDATION INSULATION
7.02 FULLY ADHERED TPO ROOF MEMBRANE OVER MIN. R-20 RIGID INSULATION. SEE ROOF PLAN FOR MORE INFO.
7.03 FIBER CEMENT PANEL SIDING WITH EZ-TRIM REVEALS. SEE SECTION DETAILS & BUILDING ELEVATIONS FOR MORE INFO.
7.04 EIFS ACCENT BAND. SEE EXTERIOR DETAILS AND EXTERIOR MATERIALS LEGEND FOR MORE INFO."
7.05 ALUMINUM COMPOSITE METAL (ACM). SEE EXTERIOR FINISH LEGEND.
7.06 ALUMINUM COMPOSITE METAL COLUMN WRAP.
7.07 PREFINISHED ALUMINUM FASCIA. SEE DETAILS
7.08 NEW AWNING. SEE SECTION DETAILS FOR ADDITIONAL INFORMATION.
7.09 SPRAY-APPLIED FIREPROOFING. SEE HORIZONTAL ASSEMBLY LEGEND/ SPECS.
7.10 1 1/2" CLOSED CELL SPRAY-FOAM INSULATION WITH INTERNAL IGNITION BARRIER FOR 48" FROM EXTERIOR WALL. SEE CEILING PLANS AND SPECS.

ELEVATION/ WALL SECTION NOTES

7.11 INSULATED ROOF CURB. SEE MEP FOR SPECIFICATION. PROVIDE INSULATION CANT WITH FLASHINGS, REGLETS, AND TERMINATION BARS AS REQUIRED TO FLASH ROOF CURB AS RECOMMENDED BY ROOFING MANUFACTURE."
7.12 WRAP EXTERIOR WALLS OF ELEVATOR SHAFT ABOVE ROOF W/ (1) LAYERS OF ½" FIRE TREATED PLYWOOD SHEATHING AND 4" OF RIGID INSULATION PRIOR TO INSTALLATION OF THE ROOF MEMBRANE.
7.13 EIFS ACCENT BANDING PROFILE TO RETUNR TO FACE OF WALL OR BACKSIDE OF PARAPET. TYPICAL.

DIV 8 - OPENINGS
8.01 6" THERMALLY BROKEN ALUMINUM STOREFRONT SYSTEM. SEE ELEVATIONS AND HEAD/JAMB/SILL DETAILS.

DIV 9 - FINISHES
9.01 5/8" TYPE "C" GYP. OVER RESILIENT CHANNELS OVER 1-HOUR HORIZONTAL ASSEMBLY. SEE HORIZONTAL ASSEMBLY LEGEND FOR MORE INFO
9.02 LAY-IN CEILING. SEE RCP
9.03 2-HR FIRE RATED HORIZONTAL ASSEMBLY ON BOTTOM OF ROOF TRUSS. SEE HORIZONTAL ASSEMBLY PLANS AND LEGEND FOR MORE INFO."
9.04 (2) 1" GYPSUM SHAFT WALL LINER PANELS WITH CLIPS. TRACKS AND ACCESSORIES PER UL DESIGN #. SEE SECTIONS AND WALL TYPE LEGEND FOR MORE INFO.
9.05 PROVIDE 1/2" PLYWOOD SHEATHING ON END OF FLOOR FRAMING ASSEMBLY AND FILL VOIDS BETWEEN SHAFT WALL AND PLYWOOD WITH MINERAL WOOL FIRE STOPPING AT EACH FLOOR
9.06 SHAFT WALL SYSTEM ALUMINUM BREAKAWAY CLIPS AT EACH FLOOR.- TYPICAL
9.07 BACK TO BACK SHAFT WALL SYSTEM C-RUNNERS 6" MIN. ABOVE EACH FLOOR - TYPICAL
9.08 TERMINATE EXHAUST AND LINE SET SHAFT W/ (2) 1"" GYPSUM LINER PANELS AND FIRE CAULK PERIMETER."
9.09 DRYWALL BULKHEAD, ON SUSPENDED METAL C-CHANNEL FRAMING. PREP AND PAINT AS SCHEDULED.
9.10 PROVIDE 2 X 4 LADDER FRAMING BELOW LANDING AS REQUIERD TO PROVIDE FLAT DRWAYLL FINISH ALIGNED WITH THE BOTTOM OF FLOOR BEAMS BELOW LANDINGS.- TYPICAL ALL STAIR LANDINGS
9.11 BLUE LINE) CONTRACTOR TO INSTALL HORIZONTAL FIRE RATED DRYWALL CONTROL JOINT EQUAL TO CLARK DETRICH, FAS-093X FIRE RATED CONTROL JOINT. JOINT TO BE INSTALLED CONTINUOUS AROUND ENTIRE PERIMETER OF SHAFT PRIOR TO ANY STAIR OR ELEVATOR FRAMING OR COMPONENT INSTALLATION.

DIV 10 - SPECIALTIES
10.01 SIGNAGE
10.02 12" TALL DIMENSIONAL LETTER SIGNAGE. SEE SIGNAGE PLANS
10.03 21" TALL DIMENSIONAL LETTER SIGNAGE. SEE SIGNAGE PLANS
10.04 CONTRACTOR PROVIDED AND INSTALLED 40" W X 80" T SURFACE APPLIED SYNTHETIC "GREEN WALL" PANELS EQUAL TO: VERTICALLY GREEN, VISTAFOIL GREEN WALL PANELS. PROVIDE PRODUCT DATA TO OWNER/ ARCHITECT FOR APPROVAL PRIOR TO PURCHASE.
10.05 CONTRACTOR PROVIDED AND INSTALLED 80" W X 120" T SURFACE APPLIED SYNTHETIC "GREEN WALL" PANELS EQUAL TO: VERTICALLY GREEN, VISTAFOIL GREEN WALL PANELS. PROVIDE PRODUCT DATA TO OWNER/ ARCHITECT FOR APPROVAL PRIOR TO PURCHASE.
10.06 BACK LIT SIGNAGE PANEL INTEGRATED INTO GREEN WALL PANELS. COORDINATE SIGNAGE REQUIREMENTS WITH ADJACENT TENANT. CONTRACTOR TO COORDINATE ELECTRICAL REQUIREMENTS WITH FUTURE TENANT IMPROVEMENT PROJECT PROVIDING POWER OUT OF ADJACENT TENANT SPACE.

DIV 22 - PLUMBING
22.01 GAS METER LOCATION. SEE PLUMBING DRAWINGS.
22.02 FIRE PROTECTION PIV. SEE PLUMBING DRAWINGS FOR MORE INFO.
22.03 FIRE PROTECTION FDC. SEE PLUMBING DRAWINGS FOR MORE INFO.
22.04 ROOF DRAIN OVERFLOW. DOWNSPOUT NOZZLE THROUGH WALL. FLASH INTO FIBER CEMENT PANEL AND WRB AS REQUIERED. SEE PLUMBING DRAWINGS FOR MORE INFO.

DIV 23 - HEATING, VENTILATION, AND AIR CONDITIONING
23.01 VENTILATION BOX/ LOUVER. SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
23.02 HVAC LINE SET PENETRATION INTO SHAFT - TYPICAL EACH FLOOR. FIRESTOP AS REQUIRED
23.03 RELIEF AIR DUCT TERMINATING INTO BOTTOM 6"" OF SHAFT. SEE MECHANICAL DRAWINGS FOR MORE INFO

DIV 26 - ELECTRICAL
26.01 EXTERIOR WALL SCONCE. SEE ELECTRICAL.
26.02 ELECTRICAL METERING AND DISCONECTS. SEE ELECTRICAL DRAWINGS AND ELECTRIC METER MOUNTING DETAIL.

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ANTHONY R. BENDON REGISTERED No. AR11200057 STATE OF INDIANA ARCHITECT

Consultant Logo:

Key Plan:

THE LANDING 3.0

NEW CONSTRUCTION
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DRAWING CONTENTS: BUILDING ELEVATIONS

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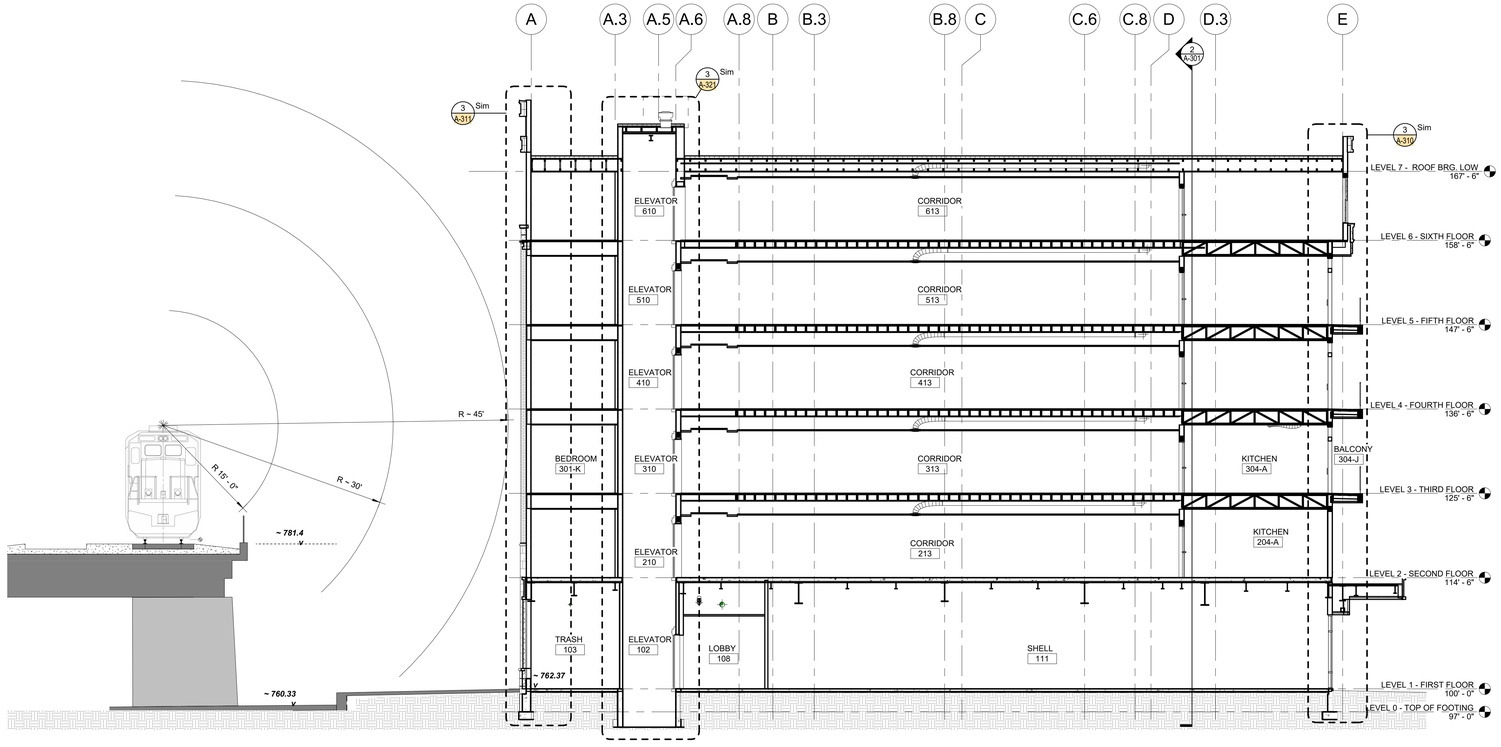
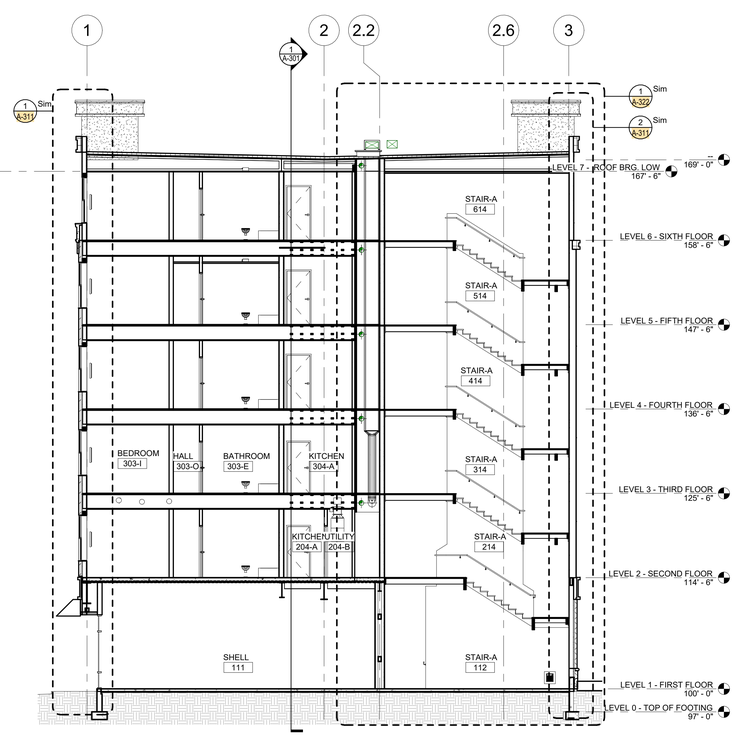


1 BUILDING SECTION

1/8" = 1'-0"



2 BUILDING SECTION

1/8" = 1'-0"

THE LANDING 3.0

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REVISION

No.	Date	Revision

DRAWING CONTENTS:
BUILDING SECTIONS

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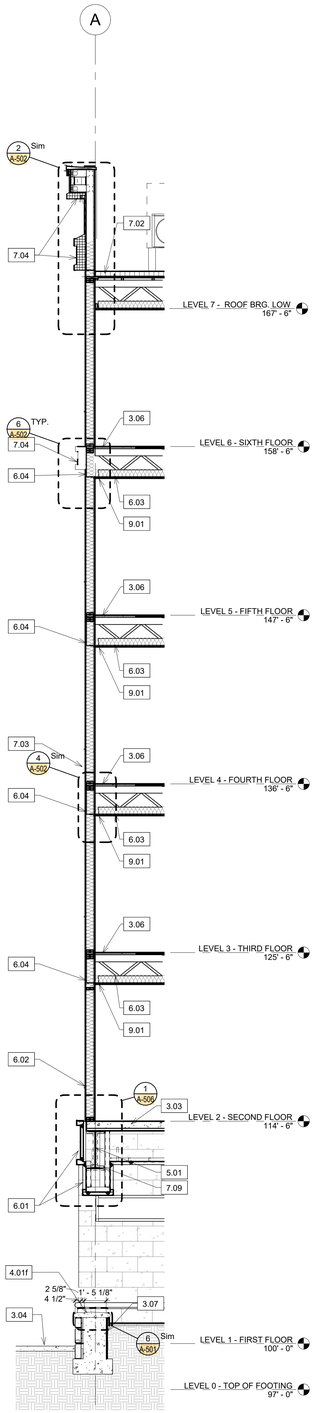
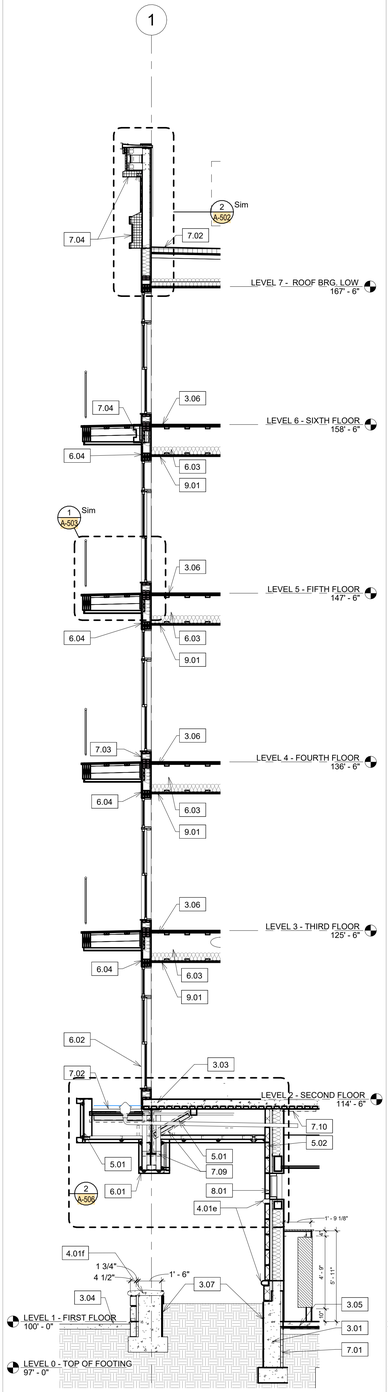
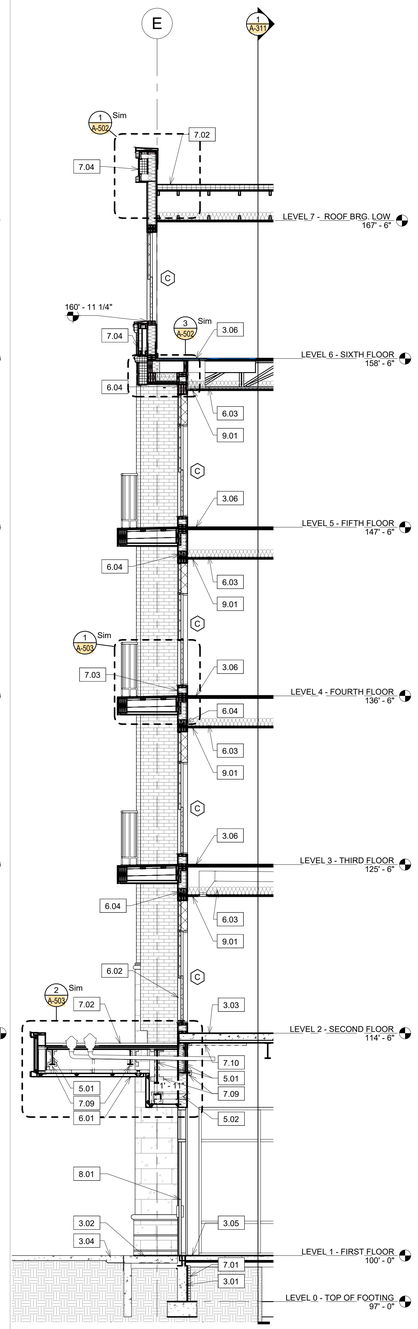


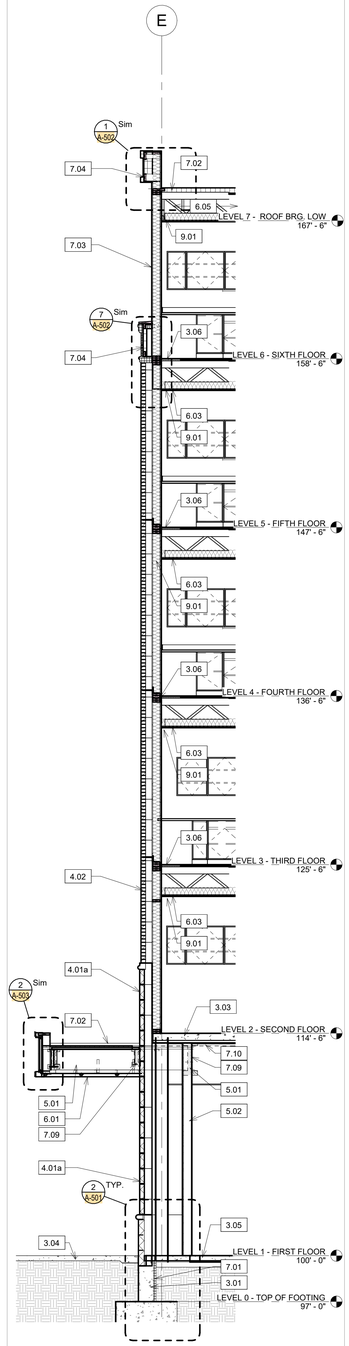
5 WALL SECTION
1/4" = 1'-0"



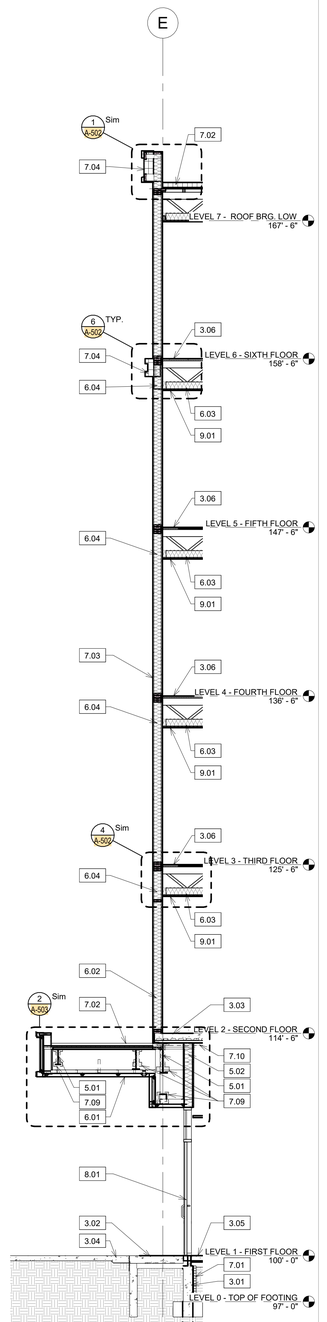
4 WALL SECTION
1/4" = 1'-0"



3 WALL SECTION
1/4" = 1'-0"



2 WALL SECTION
1/4" = 1'-0"



1 WALL SECTION
1/4" = 1'-0"

ELEVATION/ WALL SECTION NOTES

DIV 2 - EXISTING CONDITIONS
2.01 ADJACENT, EXISTING BUILDING TO REMAIN

DIV 3 - CONCRETE
3.01 CONCRETE FOUNDATION. SEE STRUCTURAL.
3.02 CONCRETE STOOP. SEE STRUCTURAL.
3.03 CONCRETE FLOOR SLAB. SEE STRUCTURAL.
3.04 CONCRETE SIDEWALK. SEE CIVIL.
3.05 CONCRETE FLOOR SLAB OVER VAPOR BARRIER. SEE STRUCTURAL FOR MORE INFO.
3.06 "1"" GYPSUM CEMENT UNDERLAYMENT OVER PLYWOOD SUBFLOOR. SEE HORIZONTAL ASSEMBLY LEGEND FOR MORE INFO.
3.07 EXPOSED CONCRETE FOUNDATION WALL IN PLANTER. CONTRACTOR TO INSTALL FLUID APPLIED CONCRETE WATERPROOFING MEMBRANE (EQUAL TO WR MEADOWS 836 SL) OVER EXPOSED FOUNDATION WALL BELOW PROPOSED PLANTER GRADE. WATERPROOFING MEMBRANE

DIV 4 - MASONRY
4.01a CAST STONE VENEER (PROFILE "A") . SEE EXTERIOR FINISH LEGEND.
4.01b CAST STONE SILL (PROFILE "B") . SEE CAST STONE PROFILE LEGEND.
4.01c CAST STONE VENEER (PROFILE "C") . SEE EXTERIOR FINISH LEGEND.
4.01d CAST STONE ACCENT BANDING (PROFILE "D") . SEE CAST STONE PROFILE LEGEND.
4.01e CAST STONE ACCENT BANDING (PROFILE "E") . SEE CAST STONE PROFILE LEGEND.
4.01f CAST STONE CAP (PROFILE "F") . SEE CAST STONE PROFILE LEGEND.
4.02 MASONRY BRICK VENEER (MAS-01). SEE EXTERIOR FINISH LEGEND.*
4.03 SPLIT FACE CONCRETE MASONRY UNITS. SEE EXTERIOR FINISH LEGEND.
4.04 MASONRY BRICK VENEER SOLDIER COURSE. (MAS-02) SEE EXTERIOR FINISH LEGEND.
4.05 "(1) STANDARD MASONRY COURSE. RECESSED 3/4" FROM FACE OF MAIN FIELD OF BRICK (MAS-03). SEE EXTERIOR FINISH LEGEND.*
4.06 STEEL BRICK RELIEF ANGLE WITH BACKER ROD & SEALANT. SEE PLATFORM FRAMING DETAILS AND STRUCTURAL FOR MORE INFO.

DIV 5 - METALS
5.01 STRUCTURAL STEEL FRAMING. SEE STRUCTURAL.
5.02 2 X 6 METAL STUD WALL @ 16" O.C.
5.03 PREFINISHED ALUMINUM RAILING SYSTEM. SEE BALCONY DETAIL FOR BASIS OF DESIGN. *

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6.01 ACM PANEL SYSTEM CANOPY. SEE EXTERIOR DETAILS AND STRUCTURAL FOR MORE INFO.
6.02 2 -FIRE RATED EXTERIOR BEARING WALL PER IBC TABLE 601 (UL DESIGN # 349) SEE WALL SECTIONS AND UL ASSEMBLIES.
6.03 1-HR FIRE RATED OPEN WEB FLOOR TRUSS ASSEMBLY. SEE HORIZONTAL ASSEMBLY LEGENDS AND PLATFORM FRAMING DETAILS FOR MORE INFO.
6.04 2 X 6 FIRE RESISTANT WOOD STUD WALL . SEE STRUCTURAL FOR MORE INFO
6.04a 2 X 10 FIRE RESISTANT WOOD STUD WALL . SEE STRUCTURAL FOR MORE INFO
6.05 1-HR FIRE RATED OPEN WEB ROOF TRUSS ASSEMBLY. SEE HORIZONTAL ASSEMBLY LEGENDS AND PLATFORM FRAMING DETAILS FOR MORE INFO.
6.06 INTERIOR WOOD STUD PARTITION WALL. SEE FLOOR PLAN AND WALL TYPES FOR MORE INFO.
6.07 FIREBLOCKING IN STUD WALLS MORE THAN 10' IN HEIGHT. - TYPICAL ENTIRE PROJECT
6.08 1x8 FJ PINE CAP W/ EASED EDGES. FIELD PAINT TO MATCH WALL BASE.
6.09 1-HR FIRE RATED 2x10 FLOOR FRAMING ASSEMBLY. SEE HORIZONTAL ASSEMBLY LEGENDS AND PLATFORM FRAMING DETAILS FOR MORE INFO.
6.10 PROVIDE SOLID WOOD BLOCKING IN WALL FOR SUN SHADE AND STING LIGHT HARDWARE ATTACHMENT. SEE RCP FOR MORE INFO.

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7.01 2" RIGID FOUNDATION INSULATION
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7.03 FIBER CEMENT PANEL SIDING WITH EZ-TRIM REVEALS. SEE SECTION DETAILS & BUILDING ELEVATIONS FOR MORE INFO.
7.04 EIFS ACCENT BAND. SEE EXTERIOR DETAILS AND EXTERIOR MATERIALS LEGEND FOR MORE INFO.*
7.05 ALUMINUM COMPOSITE METAL (ACM). SEE EXTERIOR FINISH LEGEND.
7.06 ALUMINUM COMPOSITE METAL COLUMN WRAP.
7.07 PREFINISHED ALUMINUM FASCIA. SEE DETAILS
7.08 NEW AWNING. SEE SECTION DETAILS FOR ADDITIONAL INFORMATION.
7.09 SPRAY-APPLIED FIREPROOFING. SEE HORIZONTAL ASSEMBLY LEGEND/ SPECS.
7.10 1 1/2" CLOSED CELL SPRAY-FOAM INSULATION WITH INTERNAL IGNITION BARRIER FOR 48" FROM EXTERIOR WALL. SEE CEILING PLANS AND SPECS.

ELEVATION/ WALL SECTION NOTES

7.11 INSULATED ROOF CURB. SEE MEP FOR SPECIFICATION. PROVIDE INSULATION CANT' WITH FLASHINGS, REGLETS, AND TERMINATION BARS AS REQUIRED TO FLASH ROOF CURB AS RECOMMENDED BY ROOFING MANUFACTURE.*
7.12 WRAP EXTERIOR WALLS OF ELEVATOR SHAFT ABOVE ROOF W/ (1) LAYERS OF ½" FIRE TREATED PLYWOOD SHEATHING AND 4" OF RIGID INSULATION PRIOR TO INSTALLATION OF THE ROOF MEMBRANE.
7.13 EIFS ACCENT BANDING PROFILE TO RETURN TO FACE OF WALL OR BACKSIDE OF PARAPET. TYPICAL

DIV 8 - OPENINGS
8.01 6" THERMALLY BROKEN ALUMINUM STOREFRONT SYSTEM. SEE ELEVATIONS AND HEAD/JAMB/SILL DETAILS.

DIV 9 - FINISHES
9.01 5/8" TYPE "C" GYP. OVER RESILIENT CHANNELS OVER 1-HOUR HORIZONTAL ASSEMBLY. SEE HORIZONTAL ASSEMBLY LEGEND FOR MORE INFO
9.02 LAY-IN CEILING. SEE RCP
9.03 2-HR FIRE RATED HORIZONTAL ASSEMBLY ON BOTTOM OF ROOF TRUSS. SEE HORIZONTAL ASSEMBLY PLANS AND LEGEND FOR MORE INFO.*
9.04 (2) 1" GYPSUM SHAFT WALL LINER PANELS WITH CLIPS, TRACKS AND ACCESSORIES PER UL DESIGN #. SEE SECTIONS AND WALL TYPE LEGEND FOR MORE INFO.
9.05 PROVIDE 1/2" PLYWOOD SHEATHING ON END OF FLOOR FRAMING ASSEMBLY AND FILL VOIDS BETWEEN SHAFT WALL AND PLYWOOD WITH MINERAL WOOL FIRE STOPPING AT EACH FLOOR
9.06 SHAFT WALL SYSTEM ALUMINUM BREAKAWAY CLIPS AT EACH FLOOR.- TYPICAL
9.07 BACK TO BACK SHAFT WALL SYSTEM C-RUNNERS 6" MIN. ABOVE EACH FLOOR - TYPICAL
9.08 TERMINATE EXHAUST AND LINE SET SHAFT W/ (2) 1"" GYPSUM LINER PANELS AND FIRE CAULK PERIMETER.*
9.09 DRYWALL BULKHEAD, ON SUSPENDED METAL C-CHANNEL FRAMING. PREP AND PAINT AS SCHEDULED.
9.10 PROVIDE 2 X 4 LADDER FRAMING BELOW LANDING AS REQUIERD TO PROVIDE FLAT DRWAYLL FINISH ALIGNED WITH THE BOTTOM OF FLOOR BEAMS BELOW LANDINGS.- TYPICAL ALL STAIR LANDINGS
9.11 BLUE LINE) CONTRACTOR TO INSTALL HORIZONTAL FIRE RATED DRYWALL CONTROL JOINT EQUAL TO CLARK DETRICH, FAS-093X FIRE RATED CONTROL JOINT. JOINT TO BE INSTALLED CONTINUOUS AROUND ENTIRE PERIMETER OF SHAFT PRIOR TO ANY STAIR OR ELEVATOR FRAMING OR COMPONENT INSTALLATION.

DIV 10 - SPECIALTIES
10.01 SIGNAGE
10.02 12" TALL DIMENSIONAL LETTER SIGNAGE. SEE SIGNAGE PLANS
10.03 21" TALL DIMENSIONAL LETTER SIGNAGE. SEE SIGNAGE PLANS
10.04 CONTRACTOR PROVIDED AND INSTALLED 40 " W X 80" T SURFACE APPLIED SYNTHETIC "GREEN WALL" PANELS EQUAL TO: VERTICALLY GREEN, VISTAFOIL GREEN WALL PANELS. PROVIDE PRODUCT DATA TO OWNER/ ARCHITECT FOR APPROVAL PRIOR TO PURCHASE.
10.05 CONTRACTOR PROVIDED AND INSTALLED 80 " W X 120" T SURFACE APPLIED SYNTHETIC "GREEN WALL" PANELS EQUAL TO: VERTICALLY GREEN, VISTAFOIL GREEN WALL PANELS. PROVIDE PRODUCT DATA TO OWNER/ ARCHITECT FOR APPROVAL PRIOR TO PURCHASE
10.06 BACK LIT SIGNAGE PANEL INTEGRATED INTO GREEN WALL PANELS. COORDINATE SIGNAGE REQUIREMENTS WITH ADJACENT TENANT. CONTRACTOR TO COORDINATE ELECTRICAL REQUIREMENTS WITH FUTURE TENANT IMPROVEMENT PROJECT PROVIDING POWER OUT OF ADJACENT TENANT SPACE.

DIV 22 - PLUMBING
22.01 GAS METER LOCATION. SEE PLUMBING DRAWINGS.
22.02 FIRE PROTECTION PIV. SEE PLUMBING DRAWINGS FOR MORE INFO.
22.03 FIRE PROTECTION FDC. SEE PLUMBING DRAWINGS FOR MORE INFO.
22.04 ROOF DRAIN OVERFLOW, DOWNSPOUT NOZZLE THROUGH WALL. FLASH INTO FIBER CEMENT PANEL AND WRB AS REQUIERED. SEE PLUMBING DRAWINGS FOR MORE INFO.

DIV 23 - HEATING, VENTILATION, AND AIR CONDITIONING
23.01 VENTILATION BOX/ LOUVER. SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
23.02 HVAC LINE SET PENETRATION INTO SHAFT - TYPICAL EACH FLOOR. FIRESTOP AS REQUIRED
23.03 RELIEF AIR DUCT TERMINATING INTO BOTTOM 6"" OF SHAFT. SEE MECHANICAL DRAWINGS FOR MORE INFO

DIV 26 - ELECTRICAL
26.01 EXTERIOR WALL SCONCE. SEE ELECTRICAL.
26.02 ELECTRICAL METERING AND DISCONECTS. SEE ELECTRICAL DRAWINGS AND ELECTRIC METER MOUNTING DETAIL.

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Certification: 09.13.2024 BID SET

Consultant Logo:

Key Plan:

THE LANDING 3.0

NEW CONSTRUCTION
555 S. HARRISON ST.
Fort Wayne, Indiana 46802

REVISION

No.	Date	Revision

DRAWING CONTENTS:
WALL SECTIONS

ISSUE DATE: 09.13.2024
PROJECT NO. 23029

DRAWING NO.
A-310

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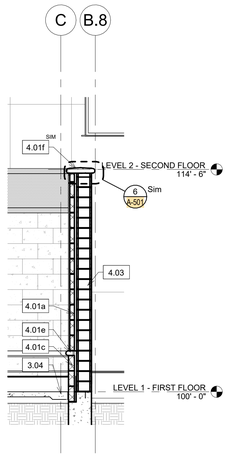
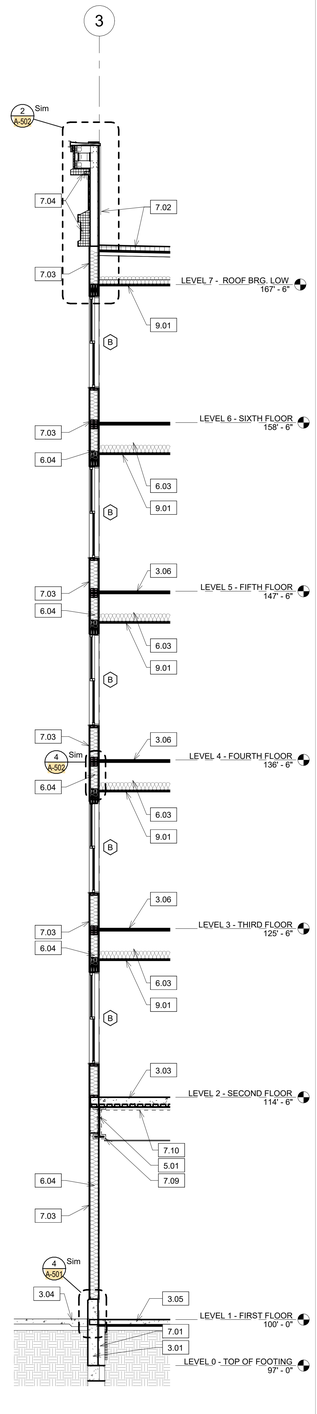


6 WALL SECTION

1/4" = 1'-0"



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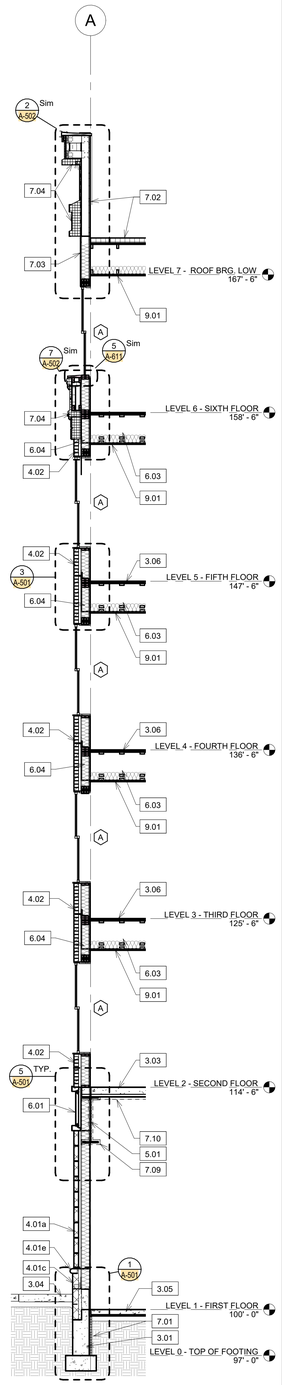
1/4" = 1'-0"



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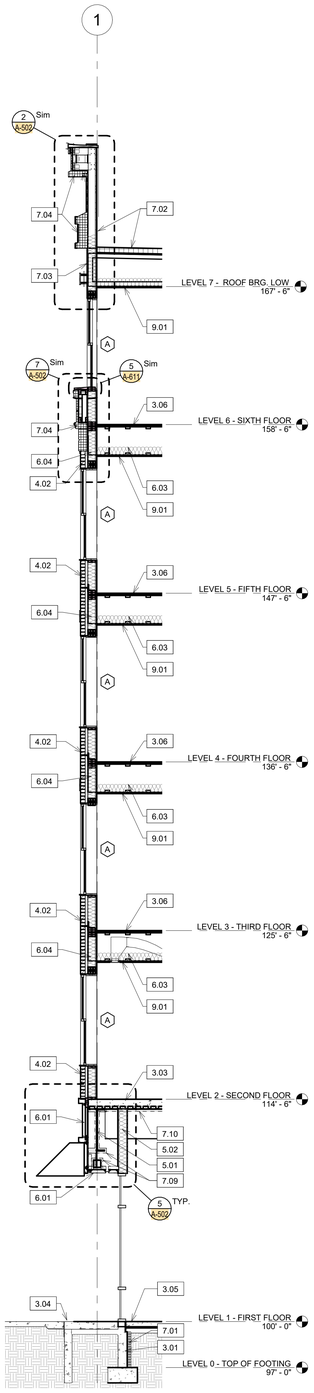
1/4" = 1'-0"



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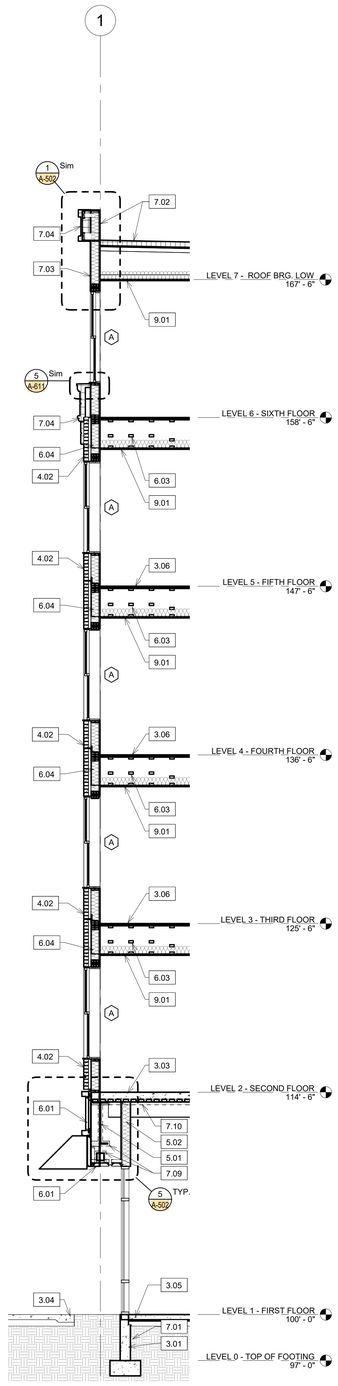
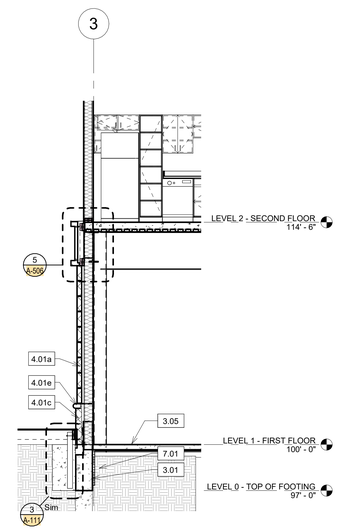
1/4" = 1'-0"



1 WALL SECTION

1/4" = 1'-0"



X WALL SECTION

1/4" = 1'-0"

ELEVATION/ WALL SECTION NOTES

DIV 2 - EXISTING CONDITIONS
2.01 ADJACENT, EXISTING BUILDING TO REMAIN

DIV 3 - CONCRETE
3.01 CONCRETE FOUNDATION. SEE STRUCTURAL.
3.02 CONCRETE STOOP. SEE STRUCTURAL.
3.03 CONCRETE FLOOR SLAB. SEE STRUCTURAL.
3.04 CONCRETE SIDEWALK. SEE CIVIL.
3.05 CONCRETE FLOOR SLAB OVER VAPOR BARRIER. SEE STRUCTURAL FOR MORE INFO.
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3.07 EXPOSED CONCRETE FOUNDATION WALL IN PLANTER. CONTRACTOR TO INSTALL FLUID APPLIED CONCRETE WATERPROOFING MEMBRANE (EQUAL TO WR MEADOWS 836 SL) OVER EXPOSED FOUNDATION WALL BELOW PROPOSED PLANTER GRADE. WATERPROOFING MEMBRANE

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5.01 STRUCTURAL STEEL FRAMING. SEE STRUCTURAL.
5.02 2 X 6 METAL STUD WALL @ 16" O.C.
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7.01 2" RIGID FOUNDATION INSULATION
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9.02 LAY-IN CEILING. SEE RCP
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DIV 22 - PLUMBING
22.01 GAS METER LOCATION. SEE PLUMBING DRAWINGS.
22.02 FIRE PROTECTION PIV. SEE PLUMBING DRAWINGS FOR MORE INFO.
22.03 FIRE PROTECTION FDC. SEE PLUMBING DRAWINGS FOR MORE INFO.
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26.02 ELECTRICAL METERING AND DISCONECTS. SEE ELECTRICAL DRAWINGS AND ELECTRIC METER MOUNTING DETAIL.

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Certification: 09.13.2024 BID SET

Consultant Logo:

Key Plan:

THE LANDING 3.0

NEW CONSTRUCTION
555 S. HARRISON ST.
Fort Wayne, Indiana 46802

REVISION

No.	Date	Revision

DRAWING CONTENTS:
WALL SECTIONS

ISSUE DATE: 09.13.2024
PROJECT NO. 23029

DRAWING NO.
A-311

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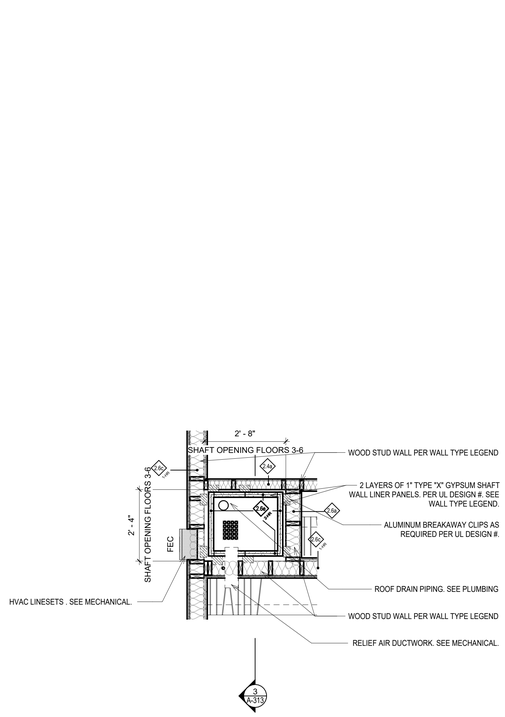
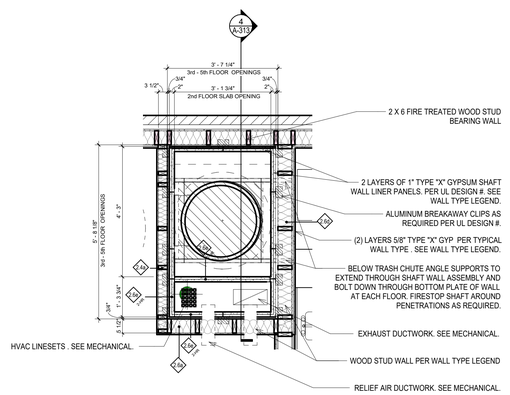


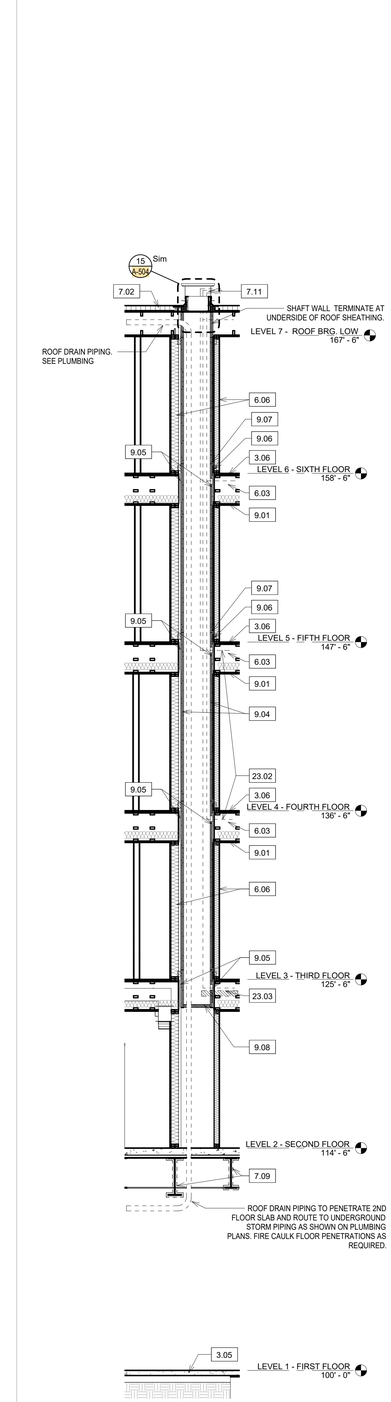
2 MECH. CHASE PLAN DTL.

1/2" = 1'-0"



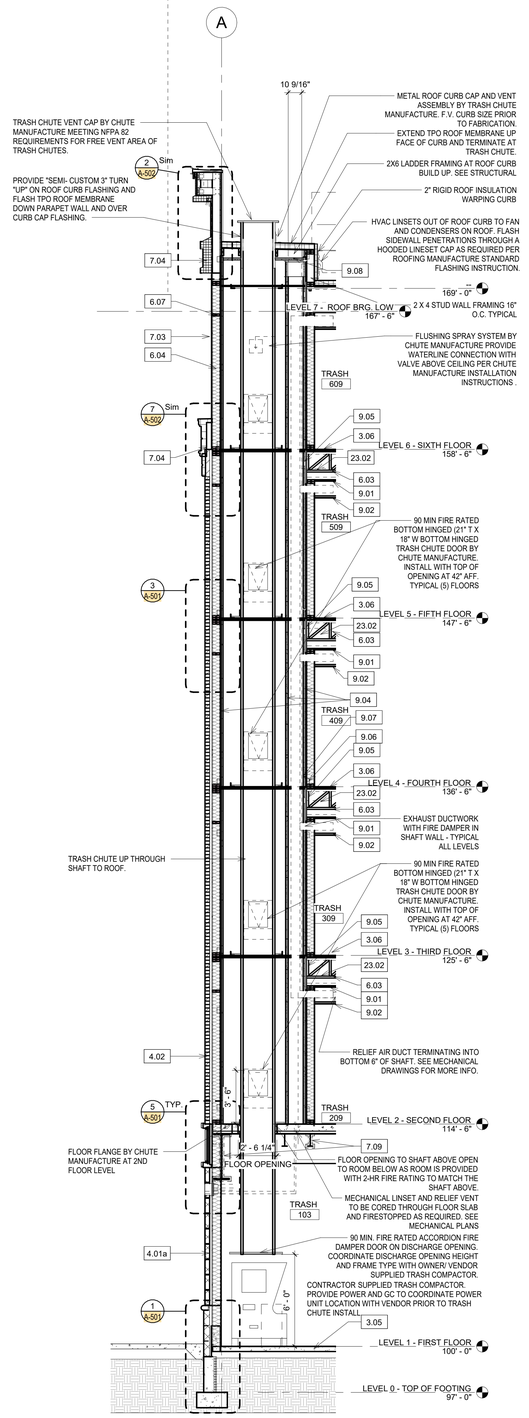
1 TRASH CHUTE PLAN DTL.

1/2" = 1'-0"



3 TYP CHASE SECTION

1/4" = 1'-0"



4 TRASH CHUTE SECTION

1/4" = 1'-0"

ELEVATION/ WALL SECTION NOTES

DIV 2 - EXISTING CONDITIONS
2.01 ADJACENT, EXISTING BUILDING TO REMAIN

DIV 3 - CONCRETE
3.01 CONCRETE FOUNDATION. SEE STRUCTURAL.
3.02 CONCRETE STOOP. SEE STRUCTURAL.
3.03 CONCRETE FLOOR SLAB. SEE STRUCTURAL.
3.04 CONCRETE SIDEWALK. SEE CIVIL.
3.05 CONCRETE FLOOR SLAB OVER VAPOR BARRIER. SEE STRUCTURAL FOR MORE INFO.
3.06 "1"" GYPSUM CEMENT UNDERLAYMENT OVER PLYWOOD SUBFLOOR. SEE HORIZONTAL ASSEMBLY LEGEND FOR MORE INFO.
3.07 EXPOSED CONCRETE FOUNDATION WALL IN PLANTER. CONTRACTOR TO INSTALL FLUID APPLIED CONCRETE WATERPROOFING MEMBRANE (EQUAL TO WR MEADOWS 836 SL) OVER EXPOSED FOUNDATION WALL BELOW PROPOSED PLANTER GRADE. WATERPROOFING MEMBRANE

DIV 4 - MASONRY
4.01a CAST STONE VENEER (PROFILE "A") . SEE EXTERIOR FINISH LEGEND.
4.01b CAST STONE SILL (PROFILE "B") . SEE CAST STONE PROFILE LEGEND.
4.01c CAST STONE VENEER (PROFILE "C") . SEE EXTERIOR FINISH LEGEND.
4.01d CAST STONE ACCENT BANDING (PROFILE "D") . SEE CAST STONE PROFILE LEGEND.
4.01e CAST STONE ACCENT BANDING (PROFILE "E") . SEE CAST STONE PROFILE LEGEND.
4.01f CAST STONE CAP (PROFILE "F") . SEE CAST STONE PROFILE LEGEND.
4.02 MASONRY BRICK VENEER (MAS-01). SEE EXTERIOR FINISH LEGEND."
4.03 SPLIT FACE CONCRETE MASONRY UNITS. SEE EXTERIOR FINISH LEGEND.
4.04 MASONRY BRICK VENEER SOLDIER COURSE. (MAS-02) SEE EXTERIOR FINISH LEGEND.
4.05 "(1) STANDARD MASONRY COURSE. RECESSED 3/4" FROM FACE OF MAIN FIELD OF BRICK (MAS-03). SEE EXTERIOR FINISH LEGEND."
4.06 STEEL BRICK RELIEF ANGLE WITH BACKER ROD & SEALANT. SEE PLATFORM FRAMING DETAILS AND STRUCTURAL FOR MORE INFO.

DIV 5 - METALS
5.01 STRUCTURAL STEEL FRAMING. SEE STRUCTURAL.
5.02 2 X 6 METAL STUD WALL @ 16" O.C.
5.03 PREFINISHED ALUMINUM RAILING SYSTEM. SEE BALCONY DETAIL FOR BASIS OF DESIGN. "

DIV 6 - WOOD, PLASTICS, AND COMPOSITES
6.01 ACM PANEL SYSTEM CANOPY. SEE EXTERIOR DETAILS AND STRUCTURAL FOR MORE INFO.
6.02 2 -FIRE RATED EXTERIOR BEARING WALL PER IBC TABLE 601 (UL DESIGN # 349) SEE WALL SECTIONS AND UL ASSEMBLIES.
6.03 1-HR FIRE RATED OPEN WEB FLOOR TRUSS ASSEMBLY. SEE HORIZONTAL ASSEMBLY LEGENDS AND PLATFORM FRAMING DETAILS FOR MORE INFO.
6.04 2 X 6 FIRE RESISTANT WOOD STUD WALL . SEE STRUCTURAL FOR MORE INFO
6.04a 2 X 10 FIRE RESISTANT WOOD STUD WALL . SEE STRUCTURAL FOR MORE INFO
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6.06 INTERIOR WOOD STUD PARTITION WALL. SEE FLOOR PLAN AND WALL TYPES FOR MORE INFO.
6.07 FIREBLOCKING IN STUD WALLS MORE THAN 10' IN HEIGHT. - TYPICAL ENTIRE PROJECT
6.08 1x8 FJ PINE CAP W/ EASED EDGES. FIELD PAINT TO MATCH WALL BASE.
6.09 1-HR FIRE RATED 2x10 FLOOR FRAMING ASSEMBLY. SEE HORIZONTAL ASSEMBLY LEGENDS AND PLATFORM FRAMING DETAILS FOR MORE INFO.
6.10 PROVIDE SOLID WOOD BLOCKING IN WALL FOR SUN SHADE AND STING LIGHT HARDWARE ATTACHMENT. SEE RCP FOR MORE INFO.

DIV 7 - THERMAL AND MOISTURE PROTECTION
7.01 2" RIGID FOUNDATION INSULATION
7.02 FULLY ADHERED TPO ROOF MEMBRANE OVER MIN. R-20 RIGID INSULATION. SEE ROOF PLAN FOR MORE INFO.
7.03 FIBER CEMENT PANEL SIDING WITH EZ-TRIM REVEALS. SEE SECTION DETAILS & BUILDING ELEVATIONS FOR MORE INFO.
7.04 EIFS ACCENT BAND. SEE EXTERIOR DETAILS AND EXTERIOR MATERIALS LEGEND FOR MORE INFO."
7.05 ALUMINUM COMPOSITE METAL (ACM). SEE EXTERIOR FINISH LEGEND.
7.06 ALUMINUM COMPOSITE METAL COLUMN WRAP.
7.07 PREFINISHED ALUMINUM FASCIA. SEE DETAILS
7.08 NEW AWNING. SEE SECTION DETAILS FOR ADDITIONAL INFORMATION.
7.09 SPRAY-APPLIED FIREPROOFING. SEE HORIZONTAL ASSEMBLY LEGEND/ SPECS.
7.10 1 1/2" CLOSED CELL SPRAY-FOAM INSULATION WITH INTERNAL IGNITION BARRIER FOR 48" FROM EXTERIOR WALL. SEE CEILING PLANS AND SPECS.
7.11 INSULATED ROOF CURB. SEE MEP FOR SPECIFICATION. PROVIDE INSULATION CANT" WITH FLASHINGS, REGLETS. AND TERMINATION BARS AS REQUIRED TO FLASH ROOF CURB AS RECOMMENDED BY ROOFING MANUFACTURE."
7.12 WRAP EXTERIOR WALLS OF ELEVATOR SHAFT ABOVE ROOF W/ (1) LAYERS OF ½" FIRE TREATED PLYWOOD SHEATHING AND 4" OF RIGID INSULATION PRIOR TO INSTALLATION OF THE ROOF MEMBRANE.
7.13 EIFS ACCENT BANDING PROFILE TO RETURN TO FACE OF WALL OR BACKSIDE OF PARAPET. TYPICAL

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8.01 6" THERMALLY BROKEN ALUMINUM STOREFRONT SYSTEM. SEE ELEVATIONS AND HEAD/JAMB/SILL DETAILS.

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9.01 5/8" TYPE "C" GYP. OVER RESILIENT CHANNELS OVER 1-HOUR HORIZONTAL ASSEMBLY. SEE HORIZONTAL ASSEMBLY LEGEND FOR MORE INFO
9.02 LAY-IN CEILING. SEE RCP
9.03 2-HR FIRE RATED HORIZONTAL ASSEMBLY ON BOTTOM OF ROOF TRUSS. SEE HORIZONTAL ASSEMBLY PLANS AND LEGEND FOR MORE INFO."
9.04 (2) 1" GYPSUM SHAFT WALL LINER PANELS WITH CLIPS, TRACKS AND ACCESSORIES PER UL DESIGN #. SEE SECTIONS AND WALL TYPE LEGEND FOR MORE INFO.
9.05 PROVIDE 1/2" PLYWOOD SHEATHING ON END OF FLOOR FRAMING ASSEMBLY AND FILL VOIDS BETWEEN SHAFT WALL AND PLYWOOD WITH MINERAL WOOL FIRE STOPPING AT EACH FLOOR
9.06 SHAFT WALL SYSTEM ALUMINUM BREAKAWAY CLIPS AT EACH FLOOR.- TYPICAL
9.07 BACK TO BACK SHAFT WALL SYSTEM C-RUNNERS 6" MIN. ABOVE EACH FLOOR - TYPICAL
9.08 TERMINATE EXHAUST AND LINE SET SHAFT W/ (2) 1"" GYPSUM LINER PANELS AND FIRE CAULK PERIMETER."
9.09 DRYWALL BULKHEAD, ON SUSPENDED METAL C-CHANNEL FRAMING. PREP AND PAINT AS SCHEDULED.
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DIV 10 - SPECIALTIES
10.01 SIGNAGE
10.02 12" TALL DIMENSIONAL LETTER SIGNAGE. SEE SIGNAGE PLANS
10.03 21" TALL DIMENSIONAL LETTER SIGNAGE. SEE SIGNAGE PLANS
10.04 CONTRACTOR PROVIDED AND INSTALLED 40" W X 80" T SURFACE APPLIED SYNTHETIC "GREEN WALL" PANELS EQUAL TO: VERTICALLY GREEN, VISTAFOIL GREEN WALL PANELS. PROVIDE PRODUCT DATA TO OWNER/ ARCHITECT FOR APPROVAL PRIOR TO PURCHASE.
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10.06 BACK LIT SIGNAGE PANEL INTEGRATED INTO GREEN WALL PANELS. COORDINATE SIGNAGE REQUIREMENTS WITH ADJACENT TENANT. CONTRACTOR TO COORDINATE ELECTRICAL REQUIREMENTS WITH FUTURE TENANT IMPROVEMENT PROJECT PROVIDING POWER OUT OF ADJACENT TENANT SPACE.

DIV 22 - PLUMBING
22.01 GAS METER LOCATION. SEE PLUMBING DRAWINGS.
22.02 FIRE PROTECTION PIV. SEE PLUMBING DRAWINGS FOR MORE INFO.
22.03 FIRE PROTECTION FDC. SEE PLUMBING DRAWINGS FOR MORE INFO.
22.04 ROOF DRAIN OVERFLOW, DOWNSPOUT NOZZLE THROUGH WALL. FLASH INTO FIBER CEMENT PANEL AND WRB AS REQUIERED. SEE PLUMBING DRAWINGS FOR MORE INFO.

DIV 23 - HEATING, VENTILATION, AND AIR CONDITIONING
23.01 VENTILATION BOX/ LOUVER. SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
23.02 HVAC LINE SET PENETRATION INTO SHAFT - TYPICAL EACH FLOOR. FIRESTOP AS REQUIRED
23.03 RELIEF AIR DUCT TERMINATING INTO BOTTOM 6"" OF SHAFT. SEE MECHANICAL DRAWINGS FOR MORE INFO

DIV 26 - ELECTRICAL
26.01 EXTERIOR WALL SCONCE. SEE ELECTRICAL.
26.02 ELECTRICAL METERING AND DISCONECTS. SEE ELECTRICAL DRAWINGS AND ELECTRIC METER MOUNTING DETAIL.

MKM
architecture + design
435 E. Brackenridge St.
Fort Wayne, Indiana 46802
p 260.422.0783
www.MKMdesign.com

Certification: 09.13.2024 BID SET

Consultant Logo:

Key Plan:

THE LANDING 3.0

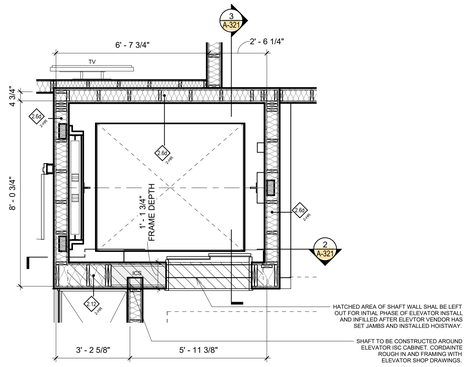
NEW CONSTRUCTION
555 S. HARRISON ST.
Fort Wayne, Indiana 46802

REVISION		
No.	Date	Revision

DRAWING CONTENTS:
CHASE PLANS & SECTIONS

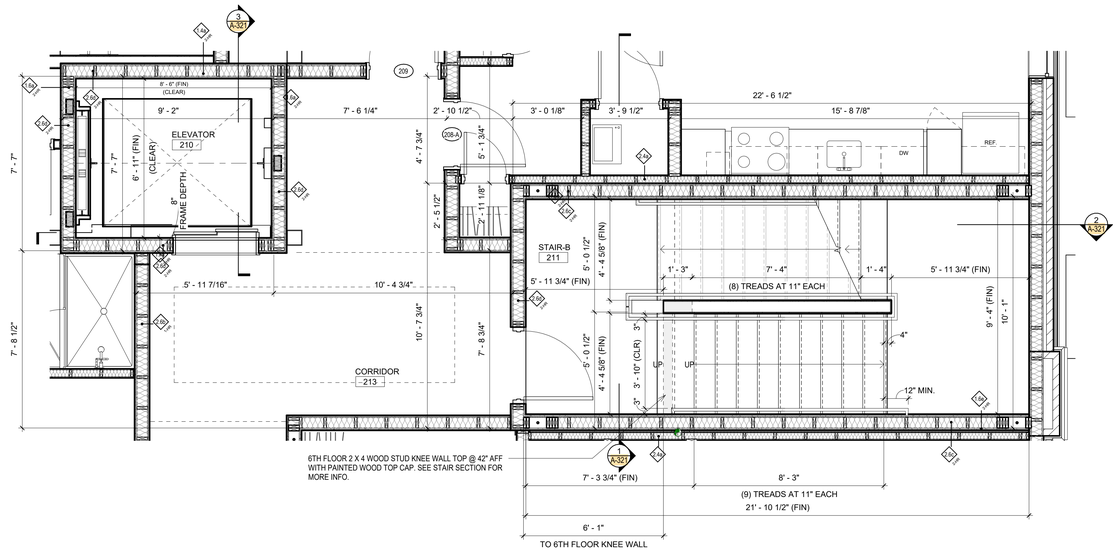
ISSUE DATE: 09.13.2024
PROJECT NO. 23029

DRAWING NO.
A-313



5 SIXTH FLOOR ELEVATOR PLAN

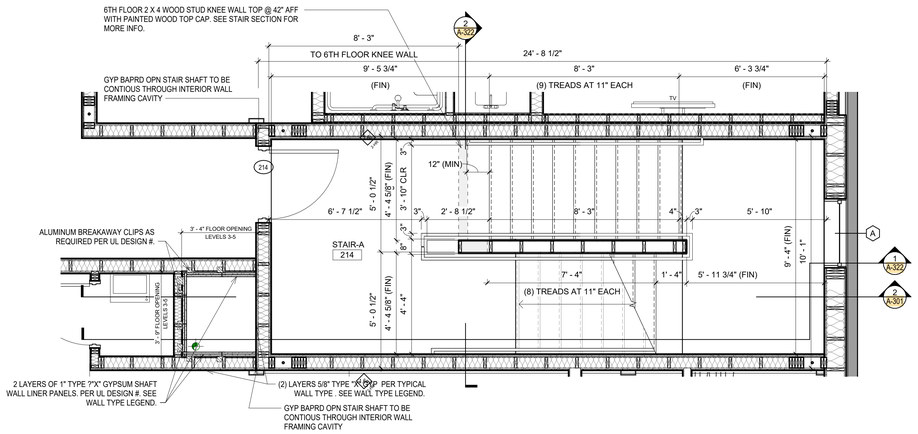
3/8" = 1'-0"



NORTH

4 STAIR - B & ELEV. (TYPICAL SECOND - SIXTH FLOOR)

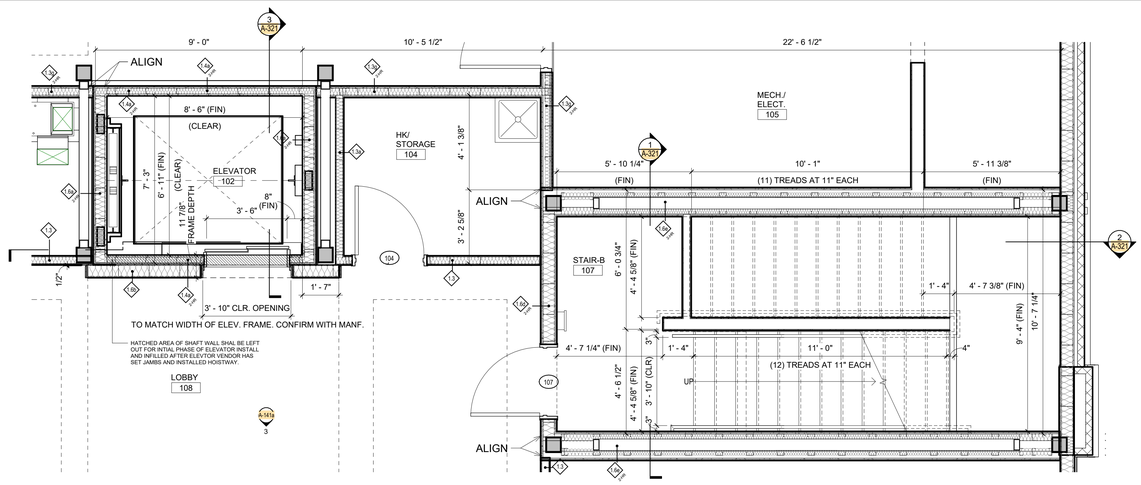
3/8" = 1'-0"



NORTH

3 STAIR - A (TYPICAL SECOND - SIXTH FLOOR)

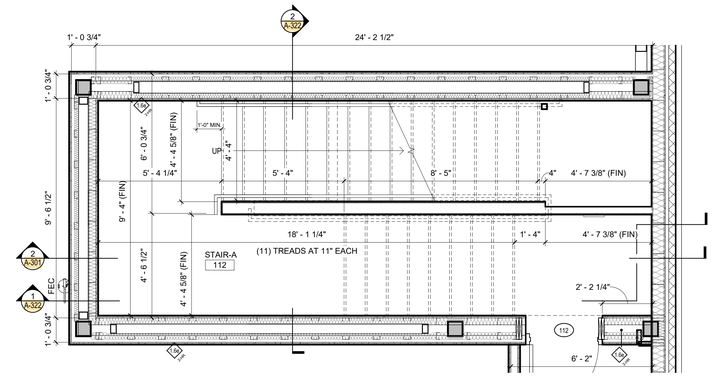
3/8" = 1'-0"



NORTH

2 STAIR - B & ELEV. (FIRST FLOOR)

3/8" = 1'-0"



NORTH

1 STAIR - A (FIRST FLOOR)

3/8" = 1'-0"

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Certification: 09.13.2024 BID SET

ZACHARY R. BENEDICTO REGISTERED No. AR11200057 STATE OF INDIANA ARCHITECT

Consultant Logo:

Key Plan:

THE LANDING 3.0

NEW CONSTRUCTION
555 S. HARRISON ST.
Fort Wayne, Indiana 46802

REVISION		
No.	Date	Revision

DRAWING CONTENTS:
STAIRS/ELEVATORS ENLARGED FLOOR PLANS

ISSUE DATE: 09.13.2024
PROJECT NO. 23029

DRAWING NO.
A-320

Plot Time/Date: 9/12/2024 2:50:26 PM
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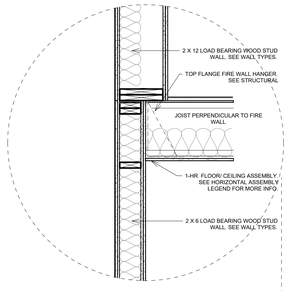
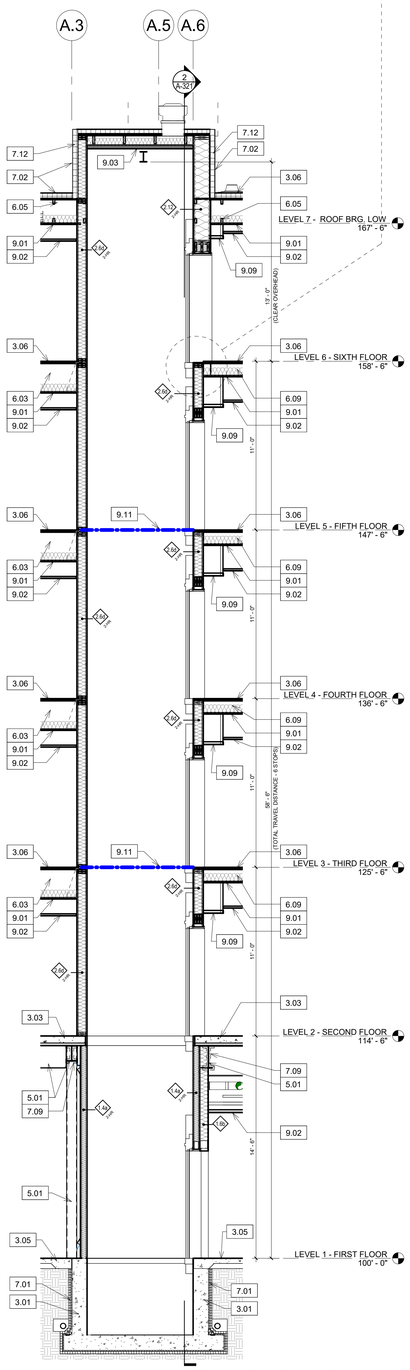
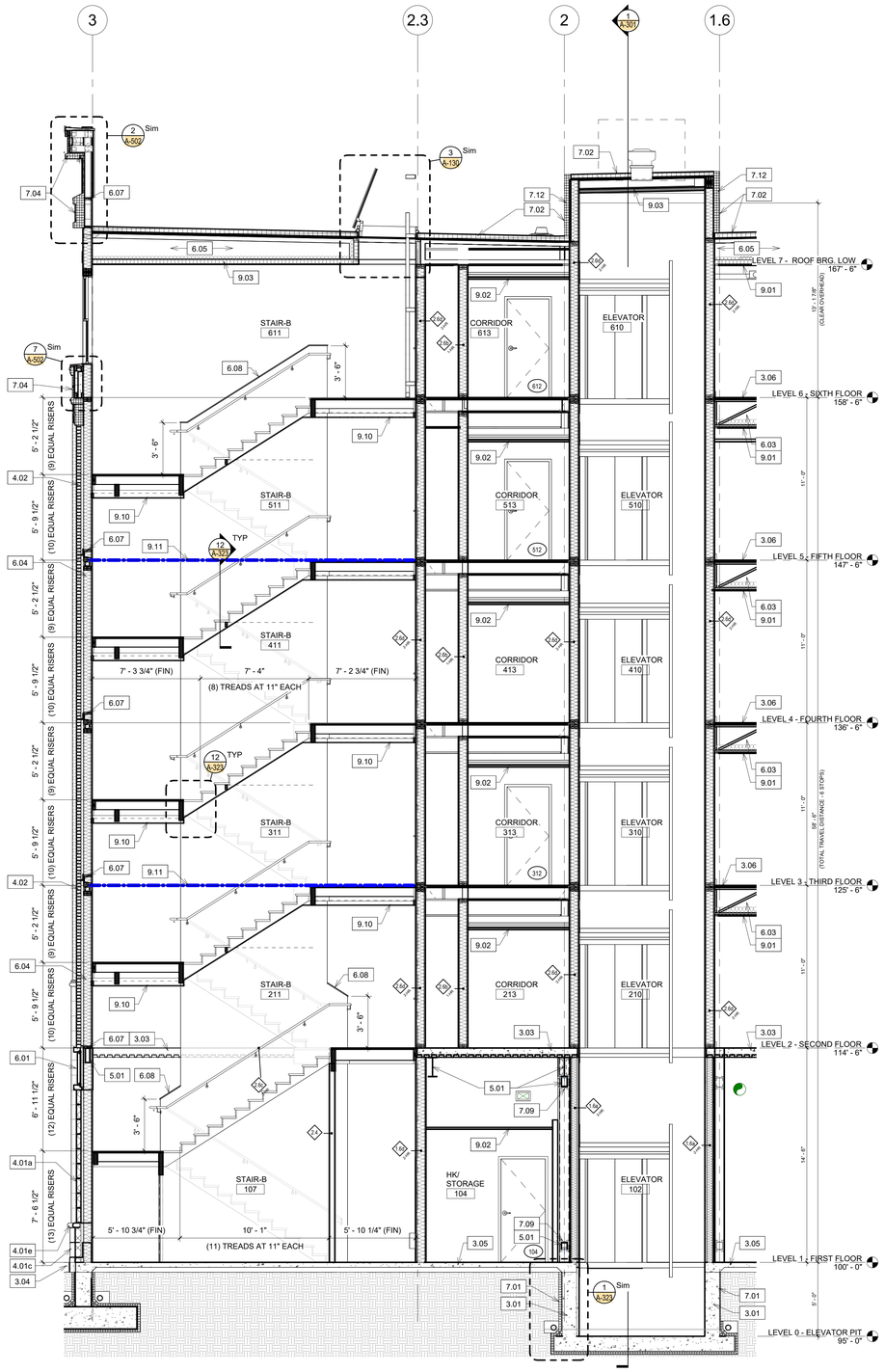




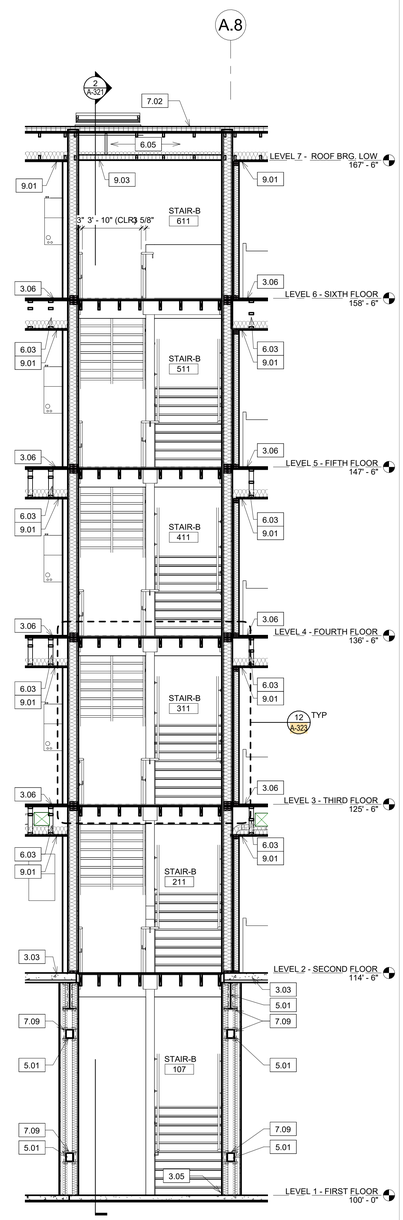
3 ELEVATOR SECTION

1/4" = 1'-0"



2 STAIR-B & ELEVATOR SECTION

1/4" = 1'-0"



1 STAIR B SECTION

1/4" = 1'-0"

ELEVATION/ WALL SECTION NOTES

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26.02 ELECTRICAL METERING AND DISCONECTS. SEE ELECTRICAL DRAWINGS AND ELECTRIC METER MOUNTING DETAIL.

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Certification: 09.13.2024 BID SET

Consultant Logo:

Key Plan:

THE LANDING 3.0

NEW CONSTRUCTION
555 S. HARRISON ST.
Fort Wayne, Indiana 46802

REVISION		
No.	Date	Revision

DRAWING CONTENTS:
STAIRS/ELEVATORS SECTIONS

ISSUE DATE: 09.13.2024
PROJECT NO. 23029
DRAWING NO. A-321

Plot Time/Date: 9/10/2024, 2:50:31 PM
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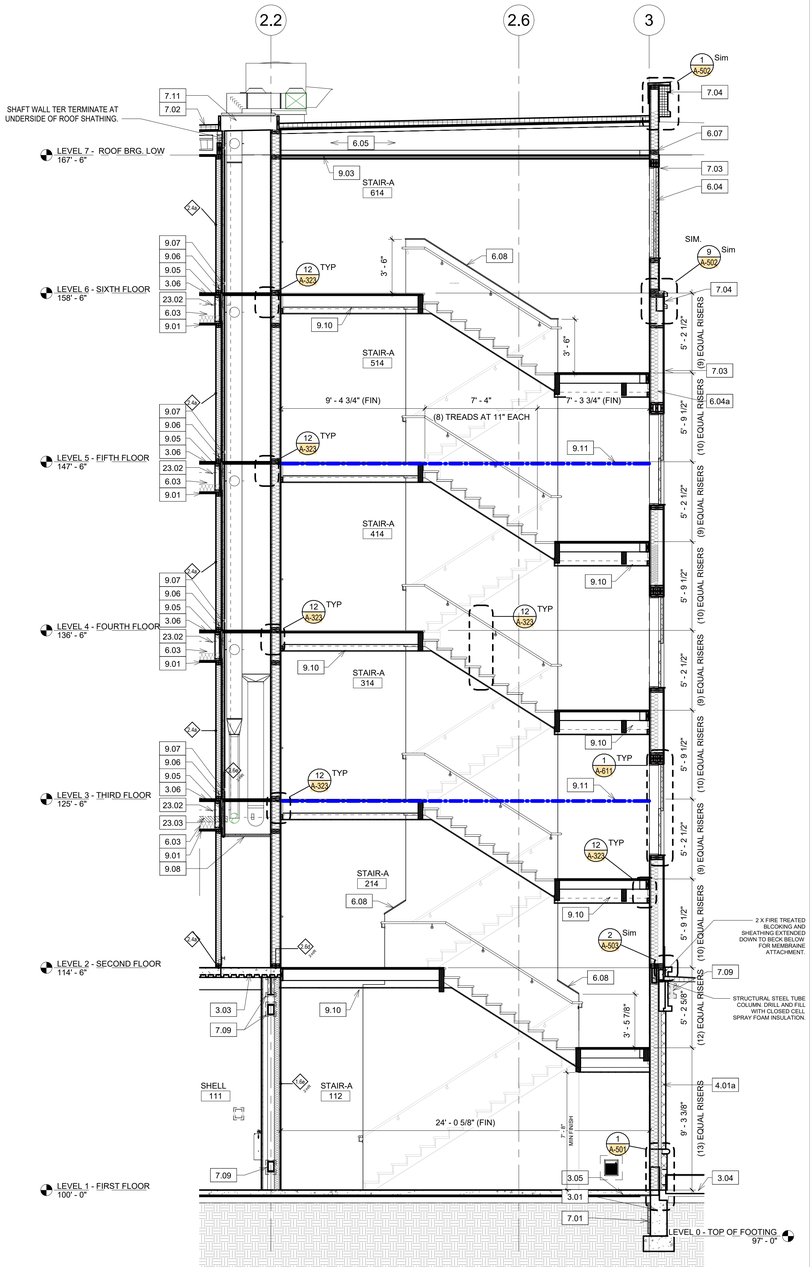
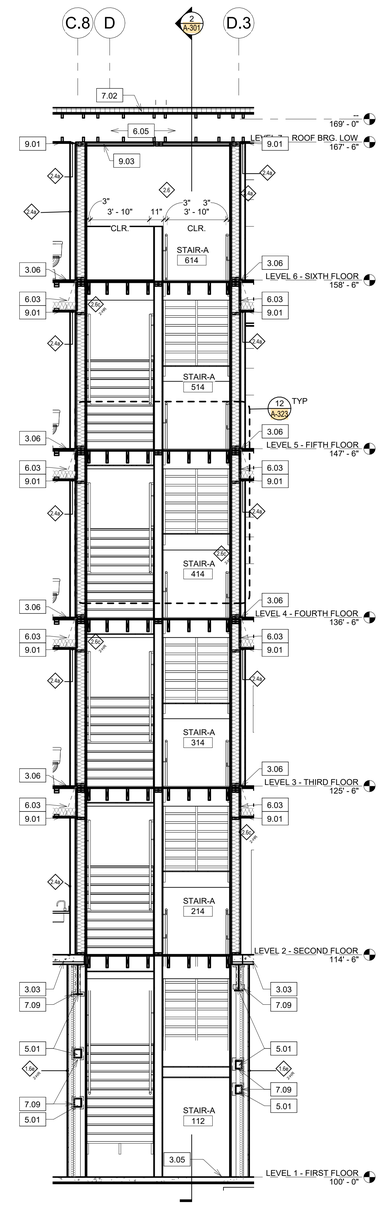


1 STAIR-A SECTION
1/4" = 1'-0"



2 STAIR-A SECTION
1/4" = 1'-0"

ELEVATION/ WALL SECTION NOTES

DIV 2 - EXISTING CONDITIONS
2.01 ADJACENT, EXISTING BUILDING TO REMAIN

DIV 3 - CONCRETE
3.01 CONCRETE FOUNDATION. SEE STRUCTURAL.
3.02 CONCRETE STOOP. SEE STRUCTURAL.
3.03 CONCRETE FLOOR SLAB. SEE STRUCTURAL.
3.04 CONCRETE SIDEWALK. SEE CIVIL.
3.05 CONCRETE FLOOR SLAB OVER VAPOR BARRIER. SEE STRUCTURAL FOR MORE INFO.
3.06 "1"" GYPSUM CEMENT UNDERLAYMENT OVER PLYWOOD SUBFLOOR. SEE HORIZONTAL ASSEMBLY LEGEND FOR MORE INFO.
3.07 EXPOSED CONCRETE FOUNDATION WALL IN PLANTER. CONTRACTOR TO INSTALL FLUID APPLIED CONCRETE WATERPROOFING MEMBRANE (EQUAL TO WR MEADOWS 836 SL) OVER EXPOSED FOUNDATION WALL BELOW PROPOSED PLANTER GRADE. WATERPROOFING MEMBRANE

DIV 4 - MASONRY
4.01a CAST STONE VENEER (PROFILE "A") . SEE EXTERIOR FINISH LEGEND.
4.01b CAST STONE SILL (PROFILE "B") . SEE CAST STONE PROFILE LEGEND.
4.01c CAST STONE VENEER (PROFILE "C") . SEE EXTERIOR FINISH LEGEND.
4.01d CAST STONE ACCENT BANDING (PROFILE "D") . SEE CAST STONE PROFILE LEGEND.
4.01e CAST STONE ACCENT BANDING (PROFILE "E") . SEE CAST STONE PROFILE LEGEND.
4.01f CAST STONE CAP (PROFILE "F") . SEE CAST STONE PROFILE LEGEND.
4.02 MASONRY BRICK VENEER (MAS-01). SEE EXTERIOR FINISH LEGEND."
4.03 SPLIT FACE CONCRETE MASONRY UNITS. SEE EXTERIOR FINISH LEGEND.
4.04 MASONRY BRICK VENEER SOLDIER COURSE. (MAS-02) SEE EXTERIOR FINISH LEGEND.
4.05 "(1) STANDARD MASONRY COURSE. RECESSED 3/4" FROM FACE OF MAIN FIELD OF BRICK (MAS-03). SEE EXTERIOR FINISH LEGEND."
4.06 STEEL BRICK RELIEF ANGLE WITH BACKER ROD & SEALANT. SEE PLATFORM FRAMING DETAILS AND STRUCTURAL FOR MORE INFO.

DIV 5 - METALS
5.01 STRUCTURAL STEEL FRAMING. SEE STRUCTURAL.
5.02 2 X 6 METAL STUD WALL @ 16" O.C.
5.03 PREFINISHED ALUMINUM RAILING SYSTEM. SEE BALCONY DETAIL FOR BASIS OF DESIGN.."

DIV 6 - WOOD, PLASTICS, AND COMPOSITES
6.01 ACM PANEL SYSTEM CANOPY. SEE EXTERIOR DETAILS AND STRUCTURAL FOR MORE INFO.
6.02 2 -FIRE RATED EXTERIOR BEARING WALL PER IBC TABLE 601 (UL DESIGN # 349) SEE WALL SECTIONS AND UL ASSEMBLIES.
6.03 1-HR FIRE RATED OPEN WEB FLOOR TRUSS ASSEMBLY. SEE HORIZONTAL ASSEMBLY LEGENDS AND PLATFORM FRAMING DETAILS FOR MORE INFO.
6.04 2 X 6 FIRE RESISTANT WOOD STUD WALL . SEE STRUCTURAL FOR MORE INFO
6.04a 2 X 10 FIRE RESISTANT WOOD STUD WALL . SEE STRUCTURAL FOR MORE INFO
6.05 1-HR FIRE RATED OPEN WEB ROOF TRUSS ASSEMBLY. SEE HORIZONTAL ASSEMBLY LEGENDS AND PLATFORM FRAMING DETAILS FOR MORE INFO.
6.06 INTERIOR WOOD STUD PARTITION WALL. SEE FLOOR PLAN AND WALL TYPES FOR MORE INFO.
6.07 FIREBLOCKING IN STUD WALLS MORE THAN 10' IN HEIGHT. - TYPICAL ENTIRE PROEJCT
6.08 1x8 FJ PINE CAP W/ EASED EDGES. FIELD PAINT TO MATCH WALL BASE.
6.09 1-HR FIRE RATED 2x10 FLOOR FRAMING ASSEMBLY. SEE HORIZONTAL ASSEMBLY LEGENDS AND PLATFORM FRAMING DETAILS FOR MORE INFO.
6.10 PROVIDE SOLID WOOD BLOCKING IN WALL FOR SUN SHADE AND STING LIGHT HARDWARE ATTACHMENT. SEE RCP FOR MORE INFO.

DIV 7 - THERMAL AND MOISTURE PROTECTION
7.01 2" RIGID FOUNDATION INSULATION
7.02 FULLY ADHERED TPO ROOF MEMBRANE OVER MIN. R-20 RIGID INSULATION. SEE ROOF PLAN FOR MORE INFO.
7.03 FIBER CEMENT PANEL SIDING WITH EZ-TRIM REVEALS. SEE SECTION DETAILS & BUILDING ELEVATIONS FOR MORE INFO.
7.04 EIFS ACCENT BAND. SEE EXTERIOR DETAILS AND EXTERIOR MATERIALS LEGEND FOR MORE INFO.."
7.05 ALUMINUM COMPOSITE METAL (ACM). SEE EXTERIOR FINISH LEGEND.
7.06 ALUMINUM COMPOSITE METAL COLUMN WRAP.
7.07 PREFINISHED ALUMINUM FASCIA. SEE DETAILS
7.08 NEW AWNING. SEE SECTION DETAILS FOR ADDITIONAL INFORMATION.
7.09 SPRAY-APPLIED FIREPROOFING. SEE HORIZONTAL ASSEMBLY LEGEND/ SPECS.
7.10 1 1/2" CLOSED CELL SPRAY-FOAM INSULATION WITH INTERNAL IGNITION BARRIER FOR 48" FROM EXTERIOR WALL. SEE CEILING PLANS AND SPECS.
7.11 INSULATED ROOF CURB. SEE MEP FOR SPECIFICATION. PROVIDE INSULATION CANT" WITH FLASHINGS, REGLETS, AND TERMINATION BARS AS REQUIRED TO FLASH ROOF CURB AS RECOMMENDED BY ROOFING MANUFACTURE."
7.12 WRAP EXTERIOR WALLS OF ELEVATOR SHAFT ABOVE ROOF W/ (1) LAYERS OF ½" FIRE TREATED PLYWOOD SHEATHING AND 4" OF RIGID INSULATION PRIOR TO INSTALLATION OF THE ROOF MEMBRANE.
7.13 EIFS ACCENT BANDING PROFILE TO RETURN TO FACE OF WALL OR BACKSIDE OF PARAPET. TYPICAL

DIV 8 - OPENINGS
8.01 6" THERMALLY BROKEN ALUMINUM STOREFRONT SYSTEM. SEE ELEVATIONS AND HEAD/JAMB/SILL DETAILS.

DIV 9 - FINISHES
9.01 5/8" TYPE "C" GYP. OVER RESILIENT CHANNELS OVER 1-HOUR HORIZONTAL ASSEMBLY. SEE HORIZONTAL ASSEMBLY LEGEND FOR MORE INFO
9.02 LAY-IN CEILING. SEE RCP
9.03 2-HR FIRE RATED HORIZONTAL ASSEMBLY ON BOTTOM OF ROOF TRUSS. SEE HORIZONTAL ASSEMBLY PLANS AND LEGEND FOR MORE INFO."
9.04 (2) 1" GYPSUM SHAFT WALL LINER PANELS WITH CLIPS, TRACKS AND ACCESSORIES PER UL DESIGN #. SEE SECTIONS AND WALL TYPE LEGEND FOR MORE INFO.
9.05 PROVIDE 1/2" PLYWOOD SHEATHING ON END OF FLOOR FRAMING ASSEMBLY AND FILL VOIDS BETWEEN SHAFT WALL AND PLYWOOD WITH MINERAL WOOL FIRE STOPPING AT EACH FLOOR
9.06 SHAFT WALL SYSTEM ALUMINUM BREAKAWAY CLIPS AT EACH FLOOR - TYPICAL
9.07 BACK TO BACK SHAFT WALL SYSTEM C-RUNNERS 6" MIN. ABOVE EACH FLOOR - TYPICAL
9.08 TERMINATE EXHAUST AND LINE SET SHAFT W/ (2) 1"" GYPSUM LINER PANELS AND FIRE CAULK PERIMETER."
9.09 DRYWALL BULKHEAD, ON SUSPENDED METAL C-CHANNEL FRAMING. PREP AND PAINT AS SCHEDULED.
9.10 PROVIDE 2 X 4 LADDER FRAMING BELOW LANDING AS REQUIERD TO PROVIDE FLAT DRYWALL FINISH ALIGNED WITH THE BOTTOM OF FLOOR BEAMS BELOW LANDINGS - TYPICAL ALL STAIR LANDINGS.
9.11 BLUE LINE) CONTRACTOR TO INSTALL HORIZONTAL FIRE RATED DRYWALL CONTROL JOINT EQUAL TO CLARK DETRICH, FAS-093X FIRE RATED CONTROL JOINT. JOINT TO BE INSTALLED CONTINUOUS AROUND ENTIRE PERIMETER OF SHAFT PRIOR TO ANY STAIR OR ELEVATOR FRAMING OR COMPONENT INSTALLATION.

DIV 10 - SPECIALTIES
10.01 SIGNAGE
10.02 1/2" TALL DIMENSIONAL LETTER SIGNAGE. SEE SIGNAGE PLANS
10.03 21" TALL DIMENSIONAL LETTER SIGNAGE. SEE SIGNAGE PLANS
10.04 CONTRACTOR PROVIDED AND INSTALLED 40" W X 80" T SURFACE APPLIED SYNTHETIC "GREEN WALL" PANELS EQUAL TO: VERTICALLY GREEN, VISTAFOIL GREEN WALL PANELS. PROVIDE PRODUCT DATA TO OWNER/ ARCHITECT FOR APPROVAL PRIOR TO PURCHASE.
10.05 CONTRACTOR PROVIDED AND INSTALLED 80" W X 120" T SURFACE APPLIED SYNTHETIC "GREEN WALL" PANELS EQUAL TO: VERTICALLY GREEN, VISTAFOIL GREEN WALL PANELS. PROVIDE PRODUCT DATA TO OWNER/ ARCHITECT FOR APPROVAL PRIOR TO PURCHASE
10.06 BACK LIT SIGNAGE PANEL INTEGRATED INTO GREEN WALL PANELS. COORDINATE SIGNAGE REQUIREMENTS WITH ADJACENT TENANT. CONTRACTOR TO COORDINATE ELECTRICAL REQUIREMENTS WITH FUTURE TENANT IMPROVEMENT PROJECT PROVIDING POWER OUT OF ADJACENT TENANT SPACE.

DIV 22 - PLUMBING
22.01 GAS METER LOCATION. SEE PLUMBING DRAWINGS.
22.02 FIRE PROTECTION PIV. SEE PLUMBING DRAWINGS FOR MORE INFO.
22.03 FIRE PROTECTION FDC. SEE PLUMBING DRAWINGS FOR MORE INFO.
22.04 ROOF DRAIN OVERFLOW, DOWNSPOUT NOZZLE THROUGH WALL. FLASH INTO FIBER CEMENT PANEL AND WRB AS REQUIERED. SEE PLUMBING DRAWINGS FOR MORE INFO.

DIV 23 - HEATING, VENTILATION, AND AIR CONDITIONING
23.01 VENTILATION BOX/ LOUVER. SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
23.02 HVAC LINE SET PENETRATION INTO SHAFT - TYPICAL EACH FLOOR. FIRESTOP AS REQUIRED
23.03 RELIEF AIR DUCT TERMINATING INTO BOTTOM 6"" OF SHAFT. SEE MECHANICAL DRAWINGS FOR MORE INFO

DIV 26 - ELECTRICAL
26.01 EXTERIOR WALL SCONCE. SEE ELECTRICAL.
26.02 ELECTRICAL METERING AND DISCONECTS. SEE ELECTRICAL DRAWINGS AND ELECTRIC METER MOUNTING DETAIL.

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Certification: 09.13.2024 BID SET

ZACHARY R. BENEDICT REGISTERED No. AR11200057 STATE OF INDIANA ARCHITECT

Consultant Logo:

Key Plan:

THE LANDING 3.0

NEW CONSTRUCTION
555 S. HARRISON ST.
Fort Wayne, Indiana 46802

REVISION

No.	Date	Revision

DRAWING CONTENTS:
STAIR SECTIONS

ISSUE DATE: 09.13.2024
PROJECT NO. 23029

DRAWING NO.
A-322

Plot Time/Date: 9/12/2024 2:50:34 PM
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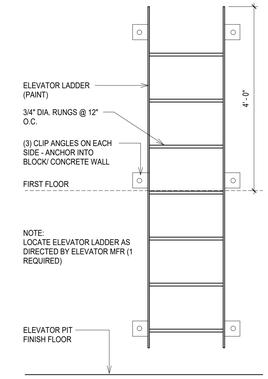
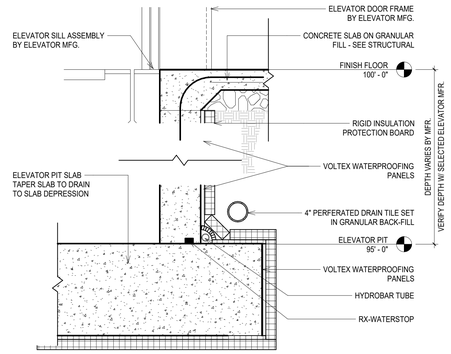


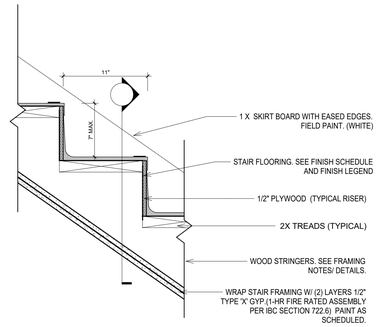
2 ELEVATOR LADDER DTL.

3/4" = 1'-0"

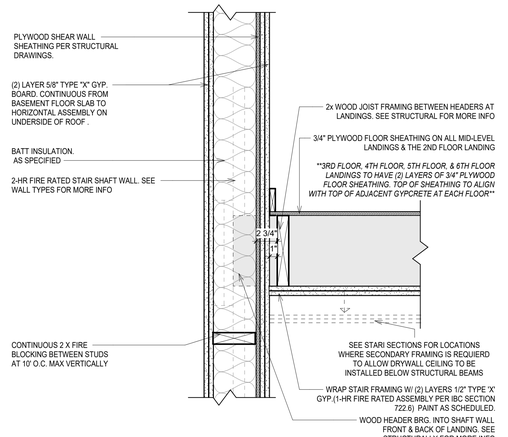


1 WATERPROOFING DTL

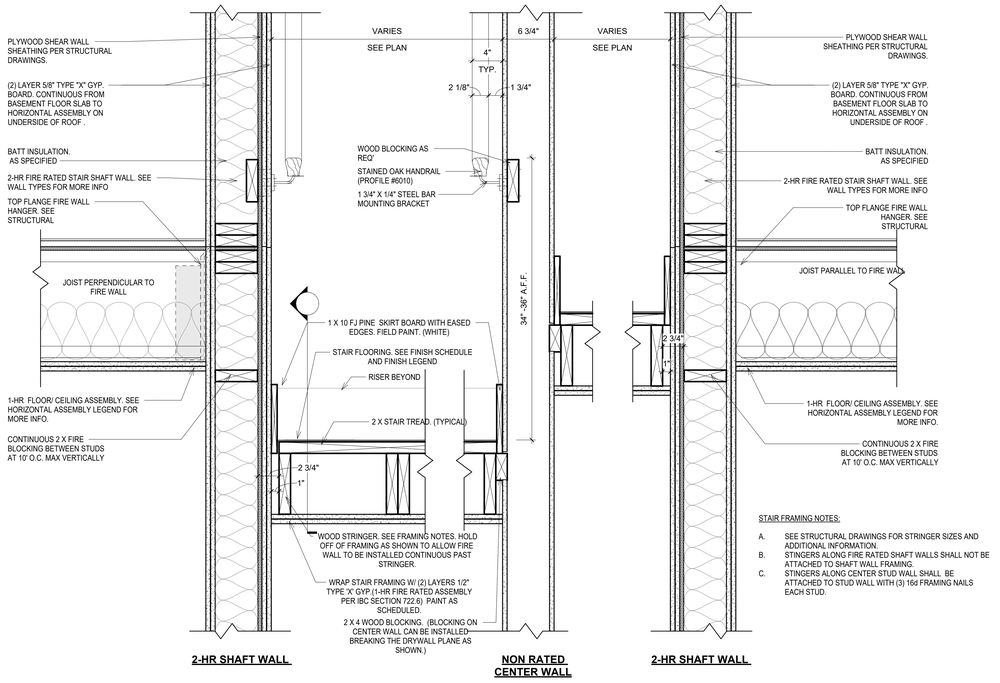
1" = 1'-0"



TREAD/ RISER



LANDING FRAMING DTL.



STAIR FRAMING NOTES:

A. SEE STRUCTURAL DRAWINGS FOR STRINGER SIZES AND ADDITIONAL INFORMATION.
B. STINGERS ALONG FIRE RATED SHAFT WALLS SHALL NOT BE ATTACHED TO SHAFT WALL FRAMING.
C. STINGERS ALONG CENTER STUD WALL SHALL BE ATTACHED TO STUD WALL WITH (3) 16d FRAMING NAILS EACH STUD.

STAIR FRAMING DTL.

12 TYPICAL STAIR SECTION

1 1/2" = 1'-0"

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Certification: 09.13.2024 BID SET

Consultant Logo:

Key Plan:

THE LANDING 3.0

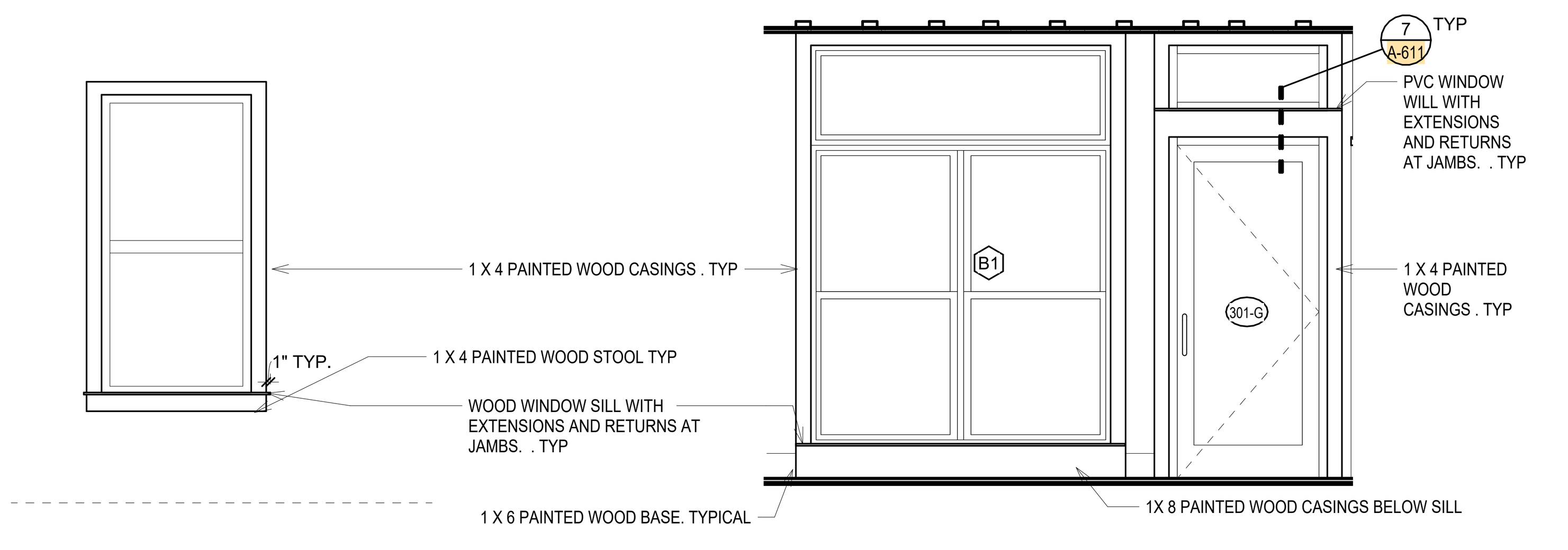
NEW CONSTRUCTION
555 S. HARRISON ST.
Fort Wayne, Indiana 46802

REVISION		
No.	Date	Revision

DRAWING CONTENTS:
STAIRS/ ELEVATOR DETAILS

ISSUE DATE:	PROJECT NO.
09.13.2024	23029

DRAWING NO.
A-323



8 WINDOW TRIM ELEV. -TYP.
3/8" = 1'-0"

7 BALCONY DOOR/ WINDOW TRIM ELEV.
3/8" = 1'-0"

REFLECTED CEILING PLAN NOTES

1 ACM PANEL CANOPY SOFFIT. SEE SECTION DETAILS AND SPECIFICATIONS.
2 ALUMINUM FRAME CANVAS AWNINGS.SEE WALL SECTIONS.
3 SOLID ALUMINUM SOFFIT PANELS BELOW BALCONY FRAMING.SEE BALCONY DETAIL.
4 SHAFT CEILING/ TERMINATION - 2-HR FIRE RATED GYPSUM HORIZONTAL ASSEMBLY.SEE HORIZONTAL ASSEMBLY PLAN AND SHAFT SECTIONS FOR MORE INFORMATION.
5 SECONDARY DRYWALL CEILING BULKHEAD TO CONCEAL EXHAUST DUCTWORK, ON SUSPENDED METAL CEILING FRAMING. PREP AND PAINT AS SCHEDULED.
6 DRYWALL CEILING ON BOTTOM OF STAIR FRAMING. PREP AND PAINT AS SCHEDULED.
7 4" SQUARE RECCESSED CAN LIGHTS WITH TRIM FINIHS TO MATCH ACM. SEE ELECTRICAL. (TYPOICAL IN ACM SOFFIT AREAS.)
8 ACM VENT STRIP. SEE SECTION DETAILS
9 EXPOSED STRCUTURAL STEEL TO BE PAINTED (WHITE)
10 (5TH FLOOR ONLY) SECONDARY CEILING /BULKHEAD (@ 8'-0" AFF) TO CONCEAL EXHAUST DUCTWORK. SEE 5TH FLOOR CEILING PLAN FOR MORE INFO.
11 (HATCHED) IN ALL LOCATIONS WITH STRUCTURAL STEEL PENETRATING BUILDING ENVELOPE TO SERVE CANOPYS, CONTRACTOR SHALL PROVIDE 1 1/2" OF CLOSED-CELL SPRAY FOAM WITH INTEGRAL IGNITION BARRIER FOR 48" FROM EXTERIOR WALL ON ALL STRUCTURAL STEEL, INCLUDING METAL DECK. SPRAY FOAM TO BE INSTALLED AFTER FIREPRROFING INSTALLATION.
12 OPEN EXSPODE STRUCTURE. (NO FINISH WORK)
13 12' X 12' RECTANGULAR SUNSHDE(S) (4) COLORS VARY. CONFIRM COLOR WITH ONWER PRIOR TO PURCHASE. PROVIDE STAINLESS STEEL CABLES AND MONITNG HARDWARE AS REQUIERD FOR ATTACHMENT TO BUUILDINGS.
13a SUNSHADE ATTACHEDMENT TO BE LOCATED AT ~ 114'-10'
13b SUNSHADE ATTACHEDMENT TO BE LOCATED AT ~ 111'-4"
14 (DASHED LINE) CONTRACTOR SUPPLIED AND INSTALLED OUTDOOR LED STRING LIGHTING WITH AIRCRAFT CABLE, SUSPENSION CABLE TO BE INSTALLED FROM NEW TO EXISTING BUILDING FACADES IN APPROXIMATE LOCATIONS INDICATED ON PLAN. ATTACHMENT POINTS OF STING LIGHTS ON FACADES SHALL BE MADE ~8" BELOW THE BOTTOM OF THE SHADE SAILS AT EACH LOCATION (HEIGHT VARIES) CONTRACTOR TO COORDINATE ELECTRICAL REQUIREMENTS WITH FUTURE TENANT IMPROVEMENT PROJECT PROVIDING POWER OUT OF ADJACENT TENANT SPACE.
15 CONTRACTOR PROVIDED AND INSTALLED WALL MOUNT OSCILLATING FANS EQUAL TO: ALLEN + ROTH 18-INCH 3-SPEED OSCILLATION INDOOR OUTDOOR WALL FAN. PROVIDE PRODUCT DATA TO OWNER/ ARCHITECT FOR APPROVAL PRIOR TO PURCHASE. INSTALL WITH TOP OF FAN AT ~11'-0". CONTRACTOR TO COORDINATE ELECTRICAL REQUIREMENTS WITH FUTURE TENANT IMPROVEMENT PROJECT PROVIDING POWER OUT OF ADJACENT TENANT SPACE.
16 CONTRACTOR PROVIDED AND INSTALLED WALL MOUNTED 36" LONG NATURAL GAS INFRARED HEATERS (6). INSTALL TOP OF HEATER AT ~ 110'-0". PROVIDE PRODUCT DATA TO OWNER/ ARCHITECT FOR APPROVAL PRIOR TO PURCHASE. CONTRACTOR TO COORDINATE NATURAL GAS REQUIREMENTS WITH FUTURE TENANT IMPROVEMENT PROJECT PROVIDING GAS PIPING OUT OF ADJACENT TENANT SPACE.

REFLECTED CEILING FINISH LEGEND

GYPSUM (TYPICAL APARTMENT CEILING)
1-HR RATED GYPSUM BOARD HORIZONTAL ASSEMBLY - ATTACHED TO UNDERSIDE OF FLOOR/ ROOF FRAMING ABOVE. SEE HORIZONTAL ASSEMBLY LEGEND
COLOR: SEE FINISH LEGEND
FINISH: SMOOTH

GYPSUM BULKHEAD
SECONDARY DRYWALL BULKHEAD FRAMING OVER SUSPENDED METAL STUD FRAMING.
COLOR: SEE FINISH LEGEND
FINISH: SMOOTH

ACP-1
MANUFACTURER: ARMSTRONG COMMERCIAL CEILINGS
PRODUCT TYPE: CALLA, SQUARE LAY IN
PRODUCT NO.: 2820
SIZE: 24" x 24" X 1"
COLOR: WHITE
GRID SYSTEM: 15/16 PRELUDE XL EXPOSED TEE (WHITE)

UNIT ELECTRICAL MOCK UP NOTE: PRIOR TO ROUGH IN ON MULTIPLE FLOORS EC SHALL MOCK-UP ALL BACK BOX'S (POWER, SWITCHING, LIGHTING, FIRE ALARM, ECT.) IN A 1 UNIT OF EACH UNIT TYPE AND HOLD AN ON SITE MOCK-UP REVIEW WALKTHORUGH WITH OWNER AND ARCHITECT TO CONFIRM ALL ROUGH IN LOCATIONS PRIOR TO FINALIZING ROUGH IN'S IN ALL UNITS OR PULLING ANY WIRE.

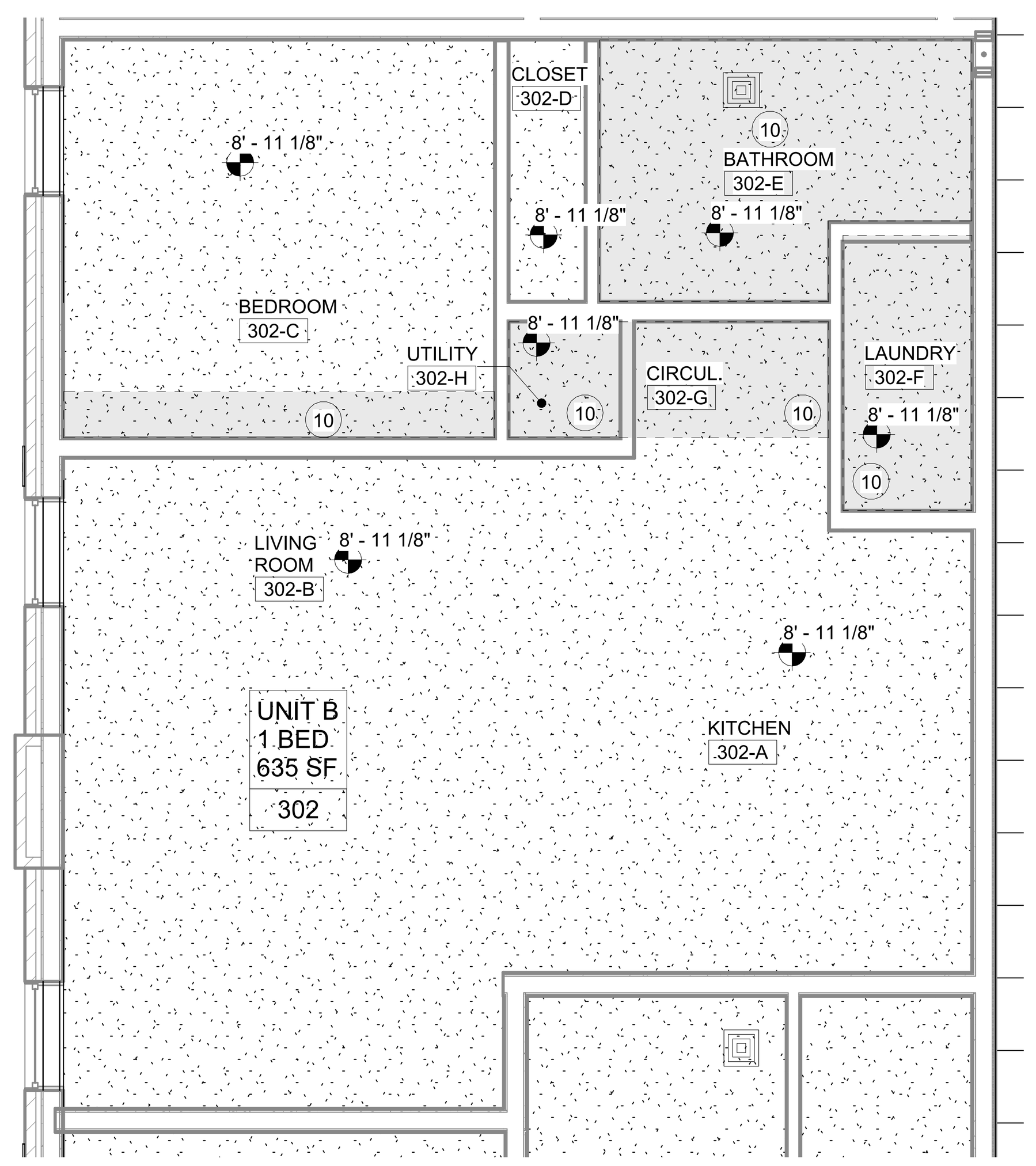
TOILET ACCESSORIES SCHEDULE

ITEM	MODEL NO.	DESCRIPTION	SUPPLIED BY	INSTALLED BY
1	-	STAINLESS STEEL CHANNEL FRAME MIRROR: CENTER OVER SINK, REFER TO ADA CLEARANCES AND TOLERANCES DETAIL FOR MOUNTING HEIGHTS.	CONTRACTOR	CONTRACTOR
2	-	SURFACE MOUNTED PAPER TOWEL DISPENSER: REFER TO ADA CLEARANCES AND TOLERANCES DETAIL FOR MOUNTING HEIGHT.	CONTRACTOR	CONTRACTOR
3	-	SURFACE MOUNTED SOAP DISPENSER: REFER TO ADA CLEARANCES AND TOLERANCES DETAIL FOR MOUNTING HEIGHT.	CONTRACTOR	CONTRACTOR
4	-	SURFACE MOUNTED TOILET PAPER DISPENSER: REFER TO ADA CLEARANCES AND TOLERANCES DETAIL FOR MOUNTING HEIGHT.	CONTRACTOR	CONTRACTOR
5	-	42" GRAB BAR: CONCEALED MOUNTING WITH SNAP FLANGE, REFER TO ADA CLEARANCES AND TOLERANCES DETAIL FOR MOUNTING HEIGHT.	CONTRACTOR	CONTRACTOR
6	-	36" GRAB BAR: CONCEALED MOUNTING WITH SNAP FLANGE, REFER TO ADA CLEARANCES AND TOLERANCES DETAIL FOR MOUNTING HEIGHT.	CONTRACTOR	CONTRACTOR
7	-	18" GRAB BAR: CONCEALED MOUNTING WITH SNAP FLANGE, REFER TO ADA CLEARANCES AND TOLERANCES DETAIL FOR MOUNTING HEIGHT.	CONTRACTOR	CONTRACTOR
8	-	TOWEL HOOK: MOUNTED AT 48" A.F.F.	CONTRACTOR	CONTRACTOR
9	-	18" TOWEL BAR: MOUNTED AT 48" A.F.F.	CONTRACTOR	CONTRACTOR
10	-	60" CURVED SHOWER ROD: MOUNTED AT 84" A.F.F.	CONTRACTOR	CONTRACTOR

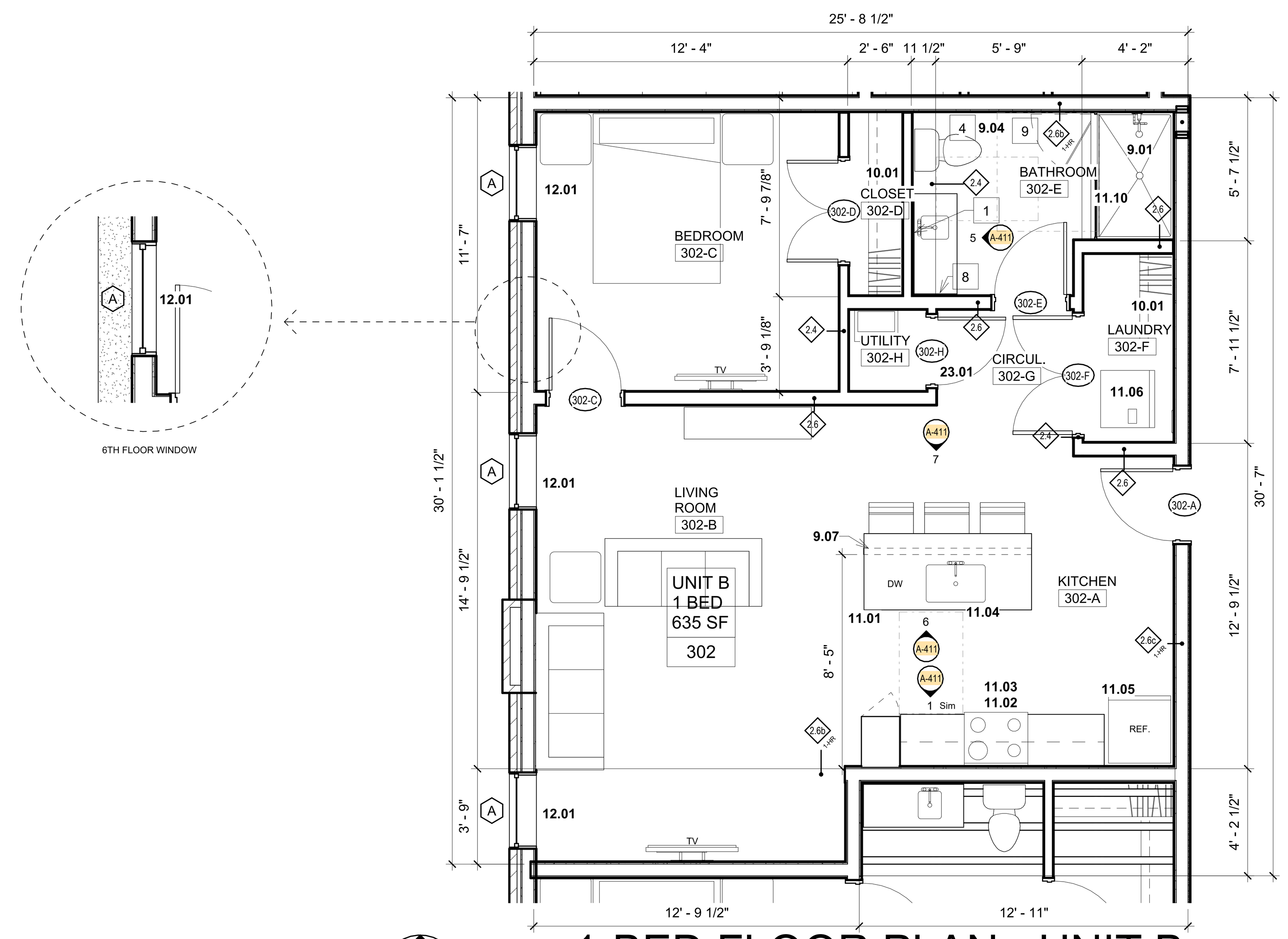
TOILET ACESSORIES GENERAL NOTE:

TOILET ACESSORIES BoD TBD BY CONTRACTRO FORM ACCETABLE MAUFACTURES BELOW GIVEN ALL TOILET ACESSORIES ARE PROVIED FROM A SINGEL PRODUCT FAMILY AND ARE **"SATIN CHROME"** FINIISH

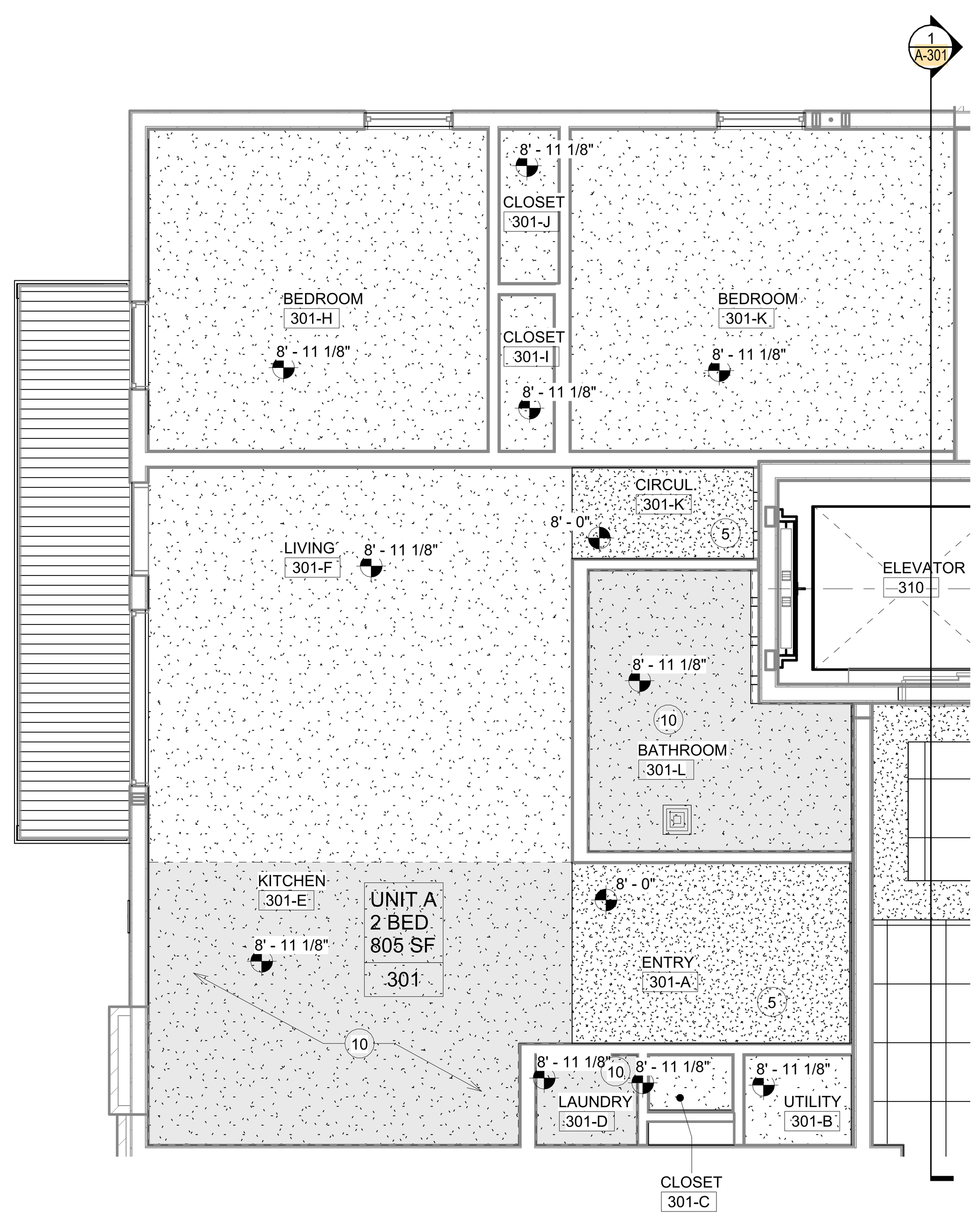
1. MANUFACTURES
   - A. BRADLEY
   - B. BOBRICK
   - C. ASI
   - D. KOHLER
   - E. MOHEN
   - F. DELTA
   - G. OR EAUL AS APROVED.



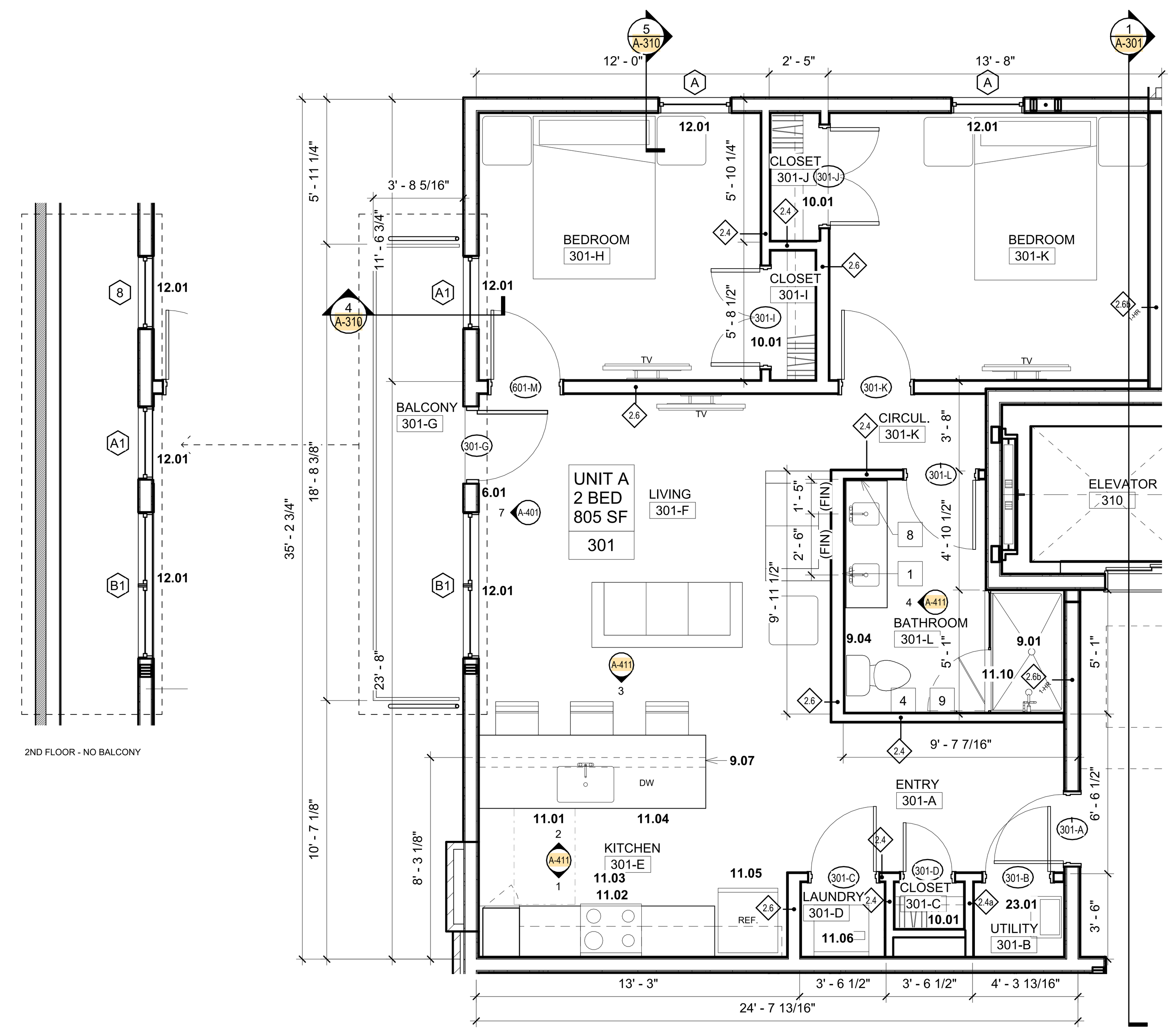
4 1-BED CEILING PLAN - UNIT B
1/4" = 1'-0"
NORTH



3 1-BED FLOOR PLAN - UNIT B
1/4" = 1'-0"
NORTH
TYPICAL: 202, 302, 402, 502, & 602



2 2-BED CEILING PLAN - UNIT A
1/4" = 1'-0"
NORTH



1 2-BED FLOOR PLAN - UNIT A
1/4" = 1'-0"
NORTH
TYPICAL OF UNITS 201, 301, 401, 501, & 601

FLOOR PLAN NOTES

DIV 3 - CONCRETE
3.01 CONCRETE STOOP. SEE STRUCTURAL FOR STOOP DTL.

DIV 5 - METALS
5.01 24" WIDE WALL MOUNTED ALLUMINUM ROOF ACCESS LADDER. EQUAL TO OKEEFFE'S INC, MODLE 500 FIXED ACCESS LADDER., MILL FINISH,, INCLUDE WITH SECURITY DOOR AND PAD LOCK AND WALL BRACKETS AS REQUIERED. PROVIDE SHOP DRAWING FOR REVIEW.

DIV 6 - WOOD, PLASTICS, AND COMPOSITES
6.01 PROVIDE WOOD CASINGS AT BALCONY DOOR & WINDOW PER TYPICAL ELEVATION
6.02a NEW TREX COMPOSITE DECK OVER 2 X 6 TREATED WOOD FRAMING WITH 4 X 4 TREATED WOOD POSTS IN CONCRETE FOOTINGS. SEE TYPICAL DECK FOOTING DETAILS FOR FOUNDATION AND FRAMING NOTES. PROVIDE PRODUCT SAMPLES OF TREX DECKING MATERIALS TO OWNER/ ARCHITECT FOR APPROVAL PRIOR TO PURCHASE.
6.02b (2) NEW +/- 6" TALL STEPS IN NEW TREX DECK. FRAME WITH TREATED WOOD 2 X 6 FRAMING 16" O.C. MAX WITH TREX DECKING TREADS AND RISERS. – (F.V.) EXISTING ELEVATIONS AND ADJUST RISERS AS REQUIRED.
6.02c NEW FINISH FLOOR ELEVATION TO ALIGN WITH EXISTING RESTAURANT FINISHED FLOOR AT EXISTING OPENING. (F.V.)

DIV 7 - THERMAL AND MOISTURE PROTECTION
7.01 ELECTRICAL OUTLETS IN KITCHENS SHALL BE COORDINATED AS TO NOT CONFLICT WITH EACH OTHER IN BACK TO BACK KITCHENS. . IN NOT CASE SHALL BACK BOX BE INSTALLED BACK TO BACK. IN SUCH LOCATIONS BACK BOX'S SHALL BE INSTALLED ON OPPOSITE SIDES OF THE SAME STUD. SEE FIRESTOPPING SPEC FOR MORE INFO ON BACK BOX'S IN RATED WALLS

DIV 8 - OPENINGS
8.01 CARD READER
8.02 WALL MOUNTED ADA PUSH PAD.
8.03 NARROW STYLE MULLION MOUNTED WIRELESS ADA PUSH PAD.
8.04 ACTIVE DOOR LEAF.
8.05 APARTMENT ENTRY AIPHONE SYSTEM PANEL.

DIV 9 - FINISHES
9.01 PROVIDE IN WALL BLOCKING FOR FUTURE GRAB BARS IN SHOWER. SEE TYPICAL ADA/ ANSI SHOWER GRAB BAR DTL.
9.02 PROVIDE IN WALL BLOCKING FOR FUTURE GRAB BARS IN BATHTUB. SEE TYPICAL ADA/ ANSI TUB GRAB BAR DTL.
9.03 PROVIDE IN WALL BLOCKING FOR FUTURE SWING UP GRAB BARS. SEE TYPICAL SWING UP GRAB BAR BLOCKING DTL.
9.04 PROVIDE IN WALL BLOCKING FOR FUTURE GRAB BARS. SEE TYPICAL SWING UP GRAB BAR BLOCKING DTL.
9.05 FLOORING CONTRACTOR TO "FEATHER" FLOOR UP WITH APPROVED LATEX LEVELING COMPOUND AS REQUIRED TO PROVIDE ADA COMPLIANT TRANSITION FROM LVP ON BATHROOM FLOOR TO SHOWER THRESHOLD.
9.06 TILE TUB SURROUND WITH FIBERGLASS TUB. SEE FINISH LEGEND FOR MORE INFO.
9.07 DRYWALL KNEE WALL BELOW. SEE ISLAND COUNTER DETAIL FOR MORE INFO.
9.08 PROVIDE GYP BOARD EQUAL TO: MOLD TOUGH, AR FIRE CODE TYPE X, ABUSE RESISTANT GYPSUM ON ALL WALLS IN TRASH ROOM
9.09 PROVIDE FRP WALL PANLES 8' TALL 36" EITHER WAY OUT OF CORNER AT MOP SINK LOCATION.

DIV 10 - SPECIALTIES
10.01 CLOSET SHELVING. SEE CLOSET SHELVING DETAIL AND SHEET A-410.
10.02 1-HR FIRE RATED SEMI RECESSED FIRE EXTINGUISHER CABINET WITH EXTINGUISHER. SEE SPEC FOR MORE INFO.

DIV 11 - EQUIPMENT
11.01 CONTRACTOR PROVIDED & INSTALLED GARBAGE DISPOSAL. SEE MEP DRAWINGS FOR MORE INFO.
11.02 CONTRACTOR PROVIDED & INSTALLED 30" WIDE REAR CONTROL ELECTRIC RANGE.SEE SPECS FOR MORE INFO.
11.02A CONTRACTOR PROVIDED & INSTALLED 30" WIDE FRONT CONTROL (ADA) ELECTRIC RANGE.SEE SPECS FOR MORE INFO.
11.03 CONTRACTOR PROVIDED & INSTALLED 30" WIDE OVER THE RANGE MICROWAVE WITH RECIRCULATING EXHAUST FAN. SEE SPECS FOR MORE INFO.
11.04 CONTRACTOR PROVIDED & INSTALLED STANDARD HEIGHT 24" WIDE DISHWASHER. SEE MEP DRAWINGS FOR MORE INFO. SEE SPECS FOR MORE INFO.
11.04A CONTRACTOR PROVIDED & INSTALLED STANDARD ADA HEIGHT 24" WIDE DISHWASHER. SEE MEP DRAWINGS FOR MORE INFO. SEE SPECS FOR MORE INFO.
11.05 CONTRACTOR PROVIDED & INSTALLED 30" WIDE REFRIGERATOR WITH ICE MAKER CONNECTIONS. SEE MEP DRAWINGS FOR MORE INFO. SEE SPECS FOR MORE INFO.
11.06 CONTRACTOR PROVIDED & INSTALLED STACKABLE ELECTRIC CLOTHES WASHER & CLOTHES DRYER. PROVIDE UTILITY CONNECTIONS AS REQUIRED SEE MEP DRAWINGS. SEE SPECS FOR MORE INFO.
11.06A CONTRACTOR PROVIDED & INSTALLED SIDE BY SIDE ELECTRIC CLOTHES WASHER & CLOTHES DRYER. PROVIDE UTILITY CONNECTIONS AS REQUIRED SEE MEP DRAWINGS. SEE SPECS FOR MORE INFO.
11.07 CONTRACTOR PROVIDED & INSTALLED 30" WIDE REFRIGERATOR WITH ICE MAKER CONNECTIONS. SEE MEP DRAWINGS FOR MORE INFO. SEE SPECS FOR MORE INFO. .
11.09 TRASH COMPACTOR AND POWER UNITS PROVIDED AND INSTALLED BY OWNER'S VENDOR. PROVIDE POWER AS REQUIRED. COORDINATE FINAL POWER ROUGH IN LOCATION IN FIELD WITH OWNER/VENDOR PRIOR TO ROUGH IN.BASIS OF DESIGN: MINI-MAC, APARTMENT TRASH
COMPACTOR, MODEL 3A, 120 VOLT POWER REQUIREMENT. TRASH COMPACTOR CONTRACT PERSON: SCOTT KELSEY, PHONE: 616-283-0029
11.10 PROVIDE AND INSTALL GLASS SHOWER DOOR SHOWER DOOR BoD: BASCO SHOWER ENCLOSURES, INFINITY SERIES-FRAMELESS 1/4" GLASS SWING & PANEL SHOWER DOOR MODEL # 1413NP, 29" WIDE DOOR OPENING, 1/4" SHOWER GUARD CLEAR GLASS, CHROME FINISH , 76" TALL UNIT, INSTALL PER MANUFACTURES WRITTEN INSTALLATION INSTRUCTIONS WITH MANUFACTURE RECOMMENDED HARDWARE, SEALS, GASKETS, SEALANTS AND ANCHORS.
11.13 EMERGENCY RESPONDERS. WALL MOUNTED KNOX BOX. COORDINATE FINAL LOCATION IN FIELD WITH AHJ.
11.14 MAIL/ PACKAGE DELIVERY. WALL MOUNTED KNOX BOX. COORDINATE FINAL LOCATION IN FIELD WITH USPS.
11.15 CONTRACTOR PROVIDED & INSTALLED 30"" WIDE RECIRCULATING RANGE/HOOD SEE SPECS FOR MORE INFO."."
11.16 TRASH COMPANY. WALL MOUNTED KNOX BOX. COORDINATE FINAL LOCATION IN FIELD WITH USPS.
11.17 PLANTERS BY FUTURE TENANT TO DEFINE DINING AREA.
11.18 PROVIDE AND INSTALL GLASS SHOWER DOOR SHOWER DOOR BOD: BASCO SHOWER ENCLOSURES, ROTOLO SEMI-FRAMELESS, ¼" GLASS, SLIDING BATH TUB DOOR, MODLE# 5450, 1/4" SHOWER GUARD CLEAR GLASS, CHROME FINISH , 65.5" TALL UNIT, INSTALL PER MANUFACTURES WRITTEN INSTALLATION INSTRUCTIONS WITH MANUFACTURE RECOMMENDED HARDWARE, SEALS, GASKETS, SEALANTS AND ANCHORS.
11.19 CONTRACTOR PROVIDED AND INSTALLED "WASTE CADDY" EQUAL TO: DJPRODUCTS INC.,CART CADDY SHORTY DUMPSTER MOVERS. PROVIDE 15 AM DEDICATED CHARGING OUTLETS ON WALL ADJACENT FOR CHARGING120 VOLT POWER REQUIREMENT. TRASH COMPACTOR CONTRACT PERSON: SCOTT
KELSEY, PHONE: 616-283-0029

DIV 12 - FURNISHINGS
12.01 CONTRACTOR PROVIDED AND INSTALLED MINIBLINDS – SEE FINISH LEGEND AND SPECIFICATION.
12.02 PROVIDE SEMI-OPAQUE FROSTED PRIVACY FILM ON INTERIOR OF GLAZING

DIV 14 - CONVEYING EQUIPMENT
14.01 ELECTRIC TRACTION ELEVATOR CONTROLLER IN JAMB OF ELEVATOR OPENING. COORDINATE ALL ROUGH OPENING AND ELECTRICAL REQUIREMENTS WITH ELEVATOR VENDOR.

DIV 22 - PLUMBING
22.01 FULLY ADA FIBERGLASS SHOWERS ENCLOSURE EQUAL TO: 63" X 37" BEST BATH INCLUDING, ADA GRAB BARS, ADA SHOWER SEAT, COLLAPSIBLE DAM AT THRESHOLD, ADJUSTABLE SHOWER HEAD. SEE PLUMBING FOR MORE INFO.

DIV 23 - HEATING, VENTILATION, AND AIR CONDITIONING
23.01 CONTRACTOR TO PROVIDE FRAMED OPENING THROUGH WALL, CENTERED ABOVE DOOR OPENING FOR RETURN GRILE. SEE MECH.

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Certification: 09.13.2024 BID SET

Consultant Logo:

Key Plan:

THE LANDING 3.0

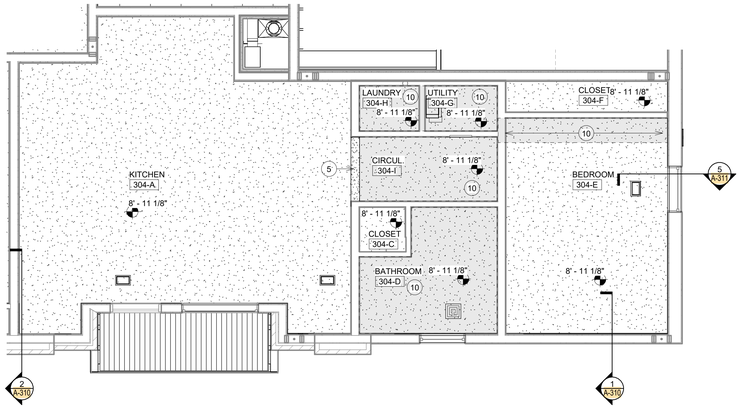
NEW CONSTRUCTION
555 S. HARRISON ST.
Fort Wayne, Indiana 46802

REVISION		
No.	Date	Revision

DRAWING CONTENTS:
ENLARGED PLANS UNIT A & B

ISSUE DATE: 09.13.2024
PROJECT NO. 23029

DRAWING NO.
A-401



NORTH

8 1-BED CEILING PLAN - UNIT D

1/4" = 1'-0"

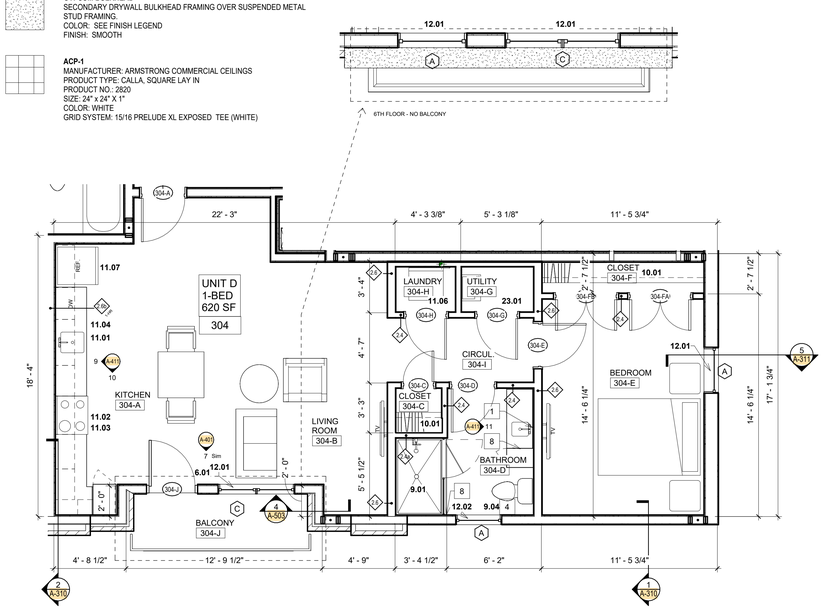
REFLECTED CEILING FINISH LEGEND

GYPSUM (TYPICAL APARTMENT CEILING)
1-HR RATED GYPSUM BOARD HORIZONTAL ASSEMBLY - ATTACHED TO UNDERSIDE OF FLOOR/ ROOF FRAMING ABOVE. SEE HORIZONTAL ASSEMBLY LEGEND
COLOR: SEE FINISH LEGEND
FINISH: SMOOTH

GYPSUM BULKHEAD
SECONDARY DRYWALL BULKHEAD FRAMING OVER SUSPENDED METAL STUD FRAMING.
COLOR: SEE FINISH LEGEND
FINISH: SMOOTH

ACP-1
MANUFACTURER: ARMSTRONG COMMERCIAL CEILINGS
PRODUCT TYPE: CALLA, SQUARE LAY IN
PRODUCT NO.: 2820
SIZE: 24" x 24" X 1"
COLOR: WHITE
GRID SYSTEM: 15/16 PRELUDE XL EXPOSED TEE (WHITE)

UNIT ELECTRICAL MOCK UP NOTE: PRIOR TO ROUGH IN ON MULTIPLE FLOORS EC SHALL MOCK-UP ALL BACK BOX'S (POWER, SWITCHING, LIGHTING, FIRE ALARM, ECT.) IN A 1 UNIT OF EACH UNIT TYPE AND HOLD AN ON SITE MOCK-UP REVIEW WALKTHORUGH WITH OWNER AND ARCHITECT TO CONFIRM ALL ROUGH IN LOCATIONS PRIOR TO FINALIZING ROUGH IN'S IN ALL UNITS OR PULLING ANY WIRE.



NORTH

6 1-BED FLOOR PLAN - UNIT D

1/4" = 1'-0"

UNIT D - 304, 404, 504, & 604

TOILET ACCESSORIES SCHEDULE

ITEM	MODEL NO.	DESCRIPTION	SUPPLIED BY	INSTALLED BY
1	-	STAINLESS STEEL CHANNEL FRAME MIRROR: CENTER OVER SINK, REFER TO ADA CLEARANCES AND TOLERANCES DETAIL FOR MOUNTING HEIGHTS.	CONTRACTOR	CONTRACTOR
2	-	SURFACE MOUNTED PAPER TOWEL DISPENSER: REFER TO ADA CLEARANCES AND TOLERANCES DETAIL FOR MOUNTING HEIGHT.	CONTRACTOR	CONTRACTOR
3	-	SURFACE MOUNTED SOAP DISPENSER: REFER TO ADA CLEARANCES AND TOLERANCES DETAIL FOR MOUNTING HEIGHT.	CONTRACTOR	CONTRACTOR
4	-	SURFACE MOUNTED TOILET PAPER DISPENSER: REFER TO ADA CLEARANCES AND TOLERANCES DETAIL FOR MOUNTING HEIGHT.	CONTRACTOR	CONTRACTOR
5	-	42" GRAB BAR: CONCEALED MOUNTING WITH SNAP FLANGE, REFER TO ADA CLEARANCES AND TOLERANCES DETAIL FOR MOUNTING HEIGHT.	CONTRACTOR	CONTRACTOR
6	-	36" GRAB BAR: CONCEALED MOUNTING WITH SNAP FLANGE, REFER TO ADA CLEARANCES AND TOLERANCES DETAIL FOR MOUNTING HEIGHT.	CONTRACTOR	CONTRACTOR
7	-	18" GRAB BAR: CONCEALED MOUNTING WITH SNAP FLANGE, REFER TO ADA CLEARANCES AND TOLERANCES DETAIL FOR MOUNTING HEIGHT.	CONTRACTOR	CONTRACTOR
8	-	TOWEL HOOK: MOUNTED AT 48" A.F.F.	CONTRACTOR	CONTRACTOR
9	-	18" TOWEL BAR: MOUNTED AT 48" A.F.F.	CONTRACTOR	CONTRACTOR
10	-	60" CURVED SHOWER ROD: MOUNTED AT 84" A.F.F.	CONTRACTOR	CONTRACTOR

TOILET ACCESSORIES GENERAL NOTE:

TOILET ACCESSORIES BoD TBD BY CONTRACTRO FORM ACCETABLE MAUFACTURES BELOW GIVEN ALL TOILET ACCESSORIES ARE PROVIED FROM A SINGEL PRODUCT FAMILY AND ARE **"SATIN CHROME"** FINIISH

1. MANUFACTURES
   - A. BRADLEY
   - B. BOBRICK
   - C. ASI
   - D. KOHLER
   - E. MOHEN
   - F. DELTA
   - G. OR EAUL AS APROVED.

FLOOR PLAN NOTES

DIV 3 - CONCRETE
3.01 CONCRETE STOOP. SEE STRUCTURAL FOR STOOP DTL.

DIV 5 - METALS
5.01 24" WIDE WALL MOUNTED ALLUMINUM ROOF ACCESS LADDER. EQUAL TO OKEEFFE'S INC, MODLE 500 FIXED ACCESS LADDER., MILL FINISH., INCLUDE WITH SECURITY DOOR AND PAD LOCK AND WALL BRACKETS AS REQUIERED. PROVIDE SHOP DRAWING FOR REVIEW.

DIV 6 - WOOD, PLASTICS, AND COMPOSITES
6.01 PROVIDE WOOD CASINGS AT BALCONY DOOR & WINDOW PER TYPICAL ELEVATION
6.02a NEW TREX COMPOSITE DECK OVER 2 X 6 TREATED WOOD FRAMING WITH 4 X 4 TREATED WOOD POSTS IN CONCRETE FOOTINGS. SEE TYPICAL DECK FOOTING DETAILS FOR FOUNDATION AND FRAMING NOTES. PROVIDE PRODUCT SAMPLES OF TREX DECKING MATERIALS TO OWNER/ ARCHITECT FOR APPROVAL PRIOR TO PURCHASE.
6.02b (2) NEW +/- 6' TALL STEPS IN NEW TREX DECK. FRAME WITH TREATED WOOD 2 X 6 FRAMING 16 " O.C. MAX WITH TREX DECKING TREADS AND RISERS. – (F.V.) EXISTING ELEVATIONS AND ADJUST RISERS AS REQUIRED.
6.02c NEW FINISH FLOOR ELEVATION TO ALIGN WITH EXISTING RESTAURANT FINISHED FLOOR AT EXISTING OPENING. (F.V.)

DIV 7 - THERMAL AND MOISTURE PROTECTION
7.01 ELECTRICAL OUTLETS IN KITCHENS SHALL BE COORDINATED AS TO NOT CONFLICT WITH EACH OTHER IN BACK TO BACK KITCHENS. . IN NOT CASE SHALL BACK BOX BE INSTALLED BACK TO BACK. IN SUCH LOCATIONS BACK BOX 'S SHALL BE INSTALLED ON OPPOSITE SIDES OF THE SAME STUD. SEE FIRESTOPPING SPEC FOR MORE INFO ON BACK BOX 'S IN RATED WALLS

DIV 8 - OPENINGS
8.01 CARD READER.
8.02 WALL MOUNTED ADA PUSH PAD.
8.03 NARROW STYLE MULLION MOUNTED WIRELESS ADA PUSH PAD.
8.04 ACTIVE DOOR LEAF.
8.05 APARTMENT ENTRY AIPHONE SYSTEM PANEL.

DIV 9 - FINISHES
9.01 PROVIDE IN WALL BLOCKING FOR FUTURE GRAB BARS IN SHOWER. SEE TYPICAL ADA/ ANSI SHOWER GRAB BAR DTL.
9.02 PROVIDE IN WALL BLOCKING FOR FUTURE GRAB BARS IN BATHTUB. SEE TYPICAL ADA/ ANSI TUB GRAB BAR DTL.
9.03 PROVIDE IN WALL BLOCKING FOR FUTURE SWING UP GRAB BARS. SEE TYPICAL SWING UP GRAB BAR BLOCKING DTL.
9.04 PROVIDE IN WALL BLOCKING FOR FUTURE GRAB BARS. SEE TYPICAL SWING UP GRAB BAR BLOCKING DTL.
9.05 FLOORING CONTRACTOR TO "FEATHER" FLOOR UP WITH APPROVED LATEX LEVELING COMPOUND AS REQUIRED TO PROVIDE ADA COMPLIANT TRANSITION FROM LVP ON BATHROOM FLOOR TO SHOWER THRESHOLD.
9.06 TILE TUB SURROUND WITH FIBERGLASS TUB. SEE FINISH LEGEND FOR MORE INFO.
9.07 DRYWALL KNEE WALL BELOW. SEE ISLAND COUNTER DETAIL FOR MORE INFO.
9.08 PROVIDE GYP BOARD EQUAL TO: MOLD TOUGH, AR FIRE CODE TYPE X, ABUSE RESISTANT GYPSUM ON ALL WALLS IN TRASH ROOM
9.09 PROVIDE FRP WALL PANLES 8' TALL 36" EITHER WAY OUT OF CORNER AT MOP SINK LOCATION.

DIV 10 - SPECIALTIES
10.01 CLOSET SHELVING. SEE CLOSET SHELVING DETAIL AND SHEET A-410.
10.02 1-HR FIRE RATED SEMI RECESSED FIRE EXTINGUISHER CABINET WITH EXTINGUISHER. SEE SPEC FOR MORE INFO.

DIV 11 - EQUIPMENT
11.01 CONTRACTOR PROVIDED & INSTALLED GARBAGE DISPOSAL. SEE MEP DRAWINGS FOR MORE INFO.
11.02 CONTRACTOR PROVIDED & INSTALLED 30" WIDE REAR CONTROL ELECTRIC RANGE.SEE SPECS FOR MORE INFO.
11.02A CONTRACTOR PROVIDED & INSTALLED 30" WIDE FRONT CONTROL (ADA) ELECTRIC RANGE.SEE SPECS FOR MORE INFO.
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11.04 CONTRACTOR PROVIDED & INSTALLED STANDARD HEIGHT 24 " WIDE DISHWASHER. SEE MEP DRAWINGS FOR MORE INFO. SEE SPECS FOR MORE INFO.
11.04A CONTRACTOR PROVIDED & INSTALLED STANDARD ADA HEIGHT 24 " WIDE DISHWASHER. SEE MEP DRAWINGS FOR MORE INFO. SEE SPECS FOR MORE INFO.
11.05 CONTRACTOR PROVIDED & INSTALLED 30" WIDE REFRIGERATOR WITH ICE MAKER CONNECTIONS. SEE MEP DRAWINGS FOR MORE INFO. SEE SPECS FOR MORE INFO.
11.06 CONTRACTOR PROVIDED & INSTALLED STACKABLE ELECTRIC CLOTHES WASHER & CLOTHES DRYER. PROVIDE UTILITY CONNECTIONS AS REQUIRED SEE MEP DRAWINGS. SEE SPECS FOR MORE INFO.
11.06A CONTRACTOR PROVIDED & INSTALLED SIDE BY SIDE ELECTRIC CLOTHES WASHER & CLOTHES DRYER. PROVIDE UTILITY CONNECTIONS AS REQUIRED SEE MEP DRAWINGS. SEE SPECS FOR MORE INFO.
11.07 CONTRACTOR PROVIDED & INSTALLED 30" WIDE REFRIGERATOR WITH ICE MAKER CONNECTIONS. SEE MEP DRAWINGS FOR MORE INFO. SEE SPECS FOR MORE INFO. .
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COMPACTOR, MODEL 3A, 120 VOLT POWER REQUIREMENT. TRASH COMPACTOR CONTRACT PERSON: SCOTT KELSEY, PHONE: 616-283-0029
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11.13 EMERGENCY RESPONDERS. WALL MOUNTED KNOX BOX. COORDINATE FINAL LOCATION IN FIELD WITH AHJ.
11.14 MAIL/ PACKAGE DELIVERY. WALL MOUNTED KNOX BOX. COORDINATE FINAL LOCATION IN FIELD WITH USPS.
11.15 CONTRACTOR PROVIDED & INSTALLED 30"" WIDE RECIRCULATING RANGE/HOOD SEE SPECS FOR MORE INFO.","
11.16 TRASH COMPANY. WALL MOUNTED KNOX BOX. COORDINATE FINAL LOCATION IN FIELD WITH USPS.
11.17 PLANTERS BY FUTURE TENANT TO DEFINE DINING AREA.
11.18 PROVIDE AND INSTALL GLASS SHOWER DOOR SHOWER DOOR BOD: BASCO SHOWER ENCLOSURES, ROTOLO SEMI-FRAMELESS, ⅞" GLASS, SLIDING BATH TUB DOOR, MODLE# 5450, 1/4" SHOWER GUARD CLEAR GLASS, CHROME FINISH , 65.5" TALL UNIT, INSTALL PER MANUFACTURES WRITTEN INSTALLATION INSTRUCTIONS WITH MANUFACTURE RECOMMENDED HARDWARE, SEALS, GASKETS, SEALANTS AND ANCHORS.
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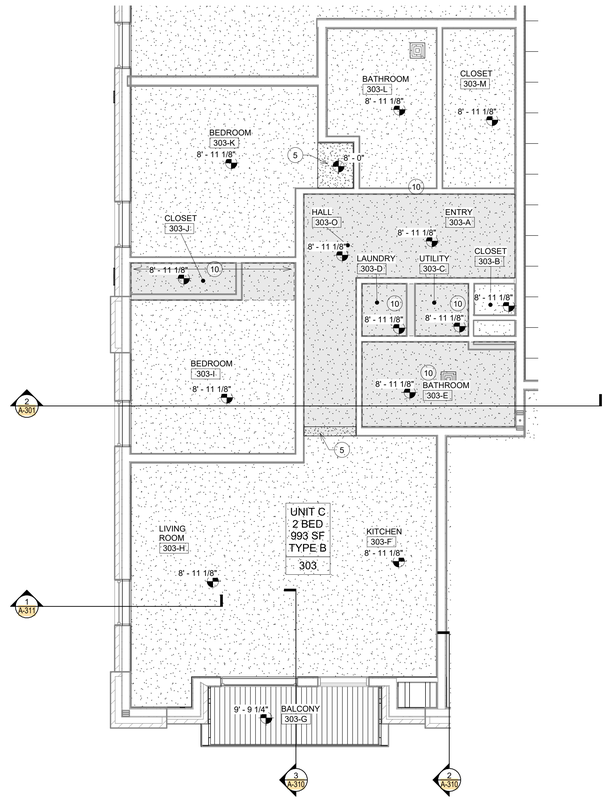
KELSEY, PHONE: 616-283-0029

DIV 12 - FURNISHINGS
12.01 CONTRACTOR PROVIDED AND INSTALLED MINIBLINDS – SEE FINISH LEGEND AND SPECIFICATION.
12.02 PROVIDE SEMI-OPAQUE FROSTED PRIVACY FILM ON INTERIOR OF GLAZING

DIV 14 - CONVEYING EQUIPMENT
14.01 ELECTRIC TRACTION ELEVATOR CONTROLLER IN JAMB OF ELEVATOR OPENING. COORDINATE ALL ROUGH OPENING AND ELECTRICAL REQUIREMENTS WITH ELEVATOR VENDOR.

DIV 22 - PLUMBING
22.01 FULLY ADA FIBERGLASS SHOWERS ENCLOSURE EQUAL TO: 63 " X 37" BEST BATH INCLUDING, ADA GRAB BARS, ADA SHOWER SEAT, COLLAPSIBLE DAM AT THRESHOLD, ADJUSTABLE SHOWER HEAD. SEE PLUMBING FOR MORE INFO.

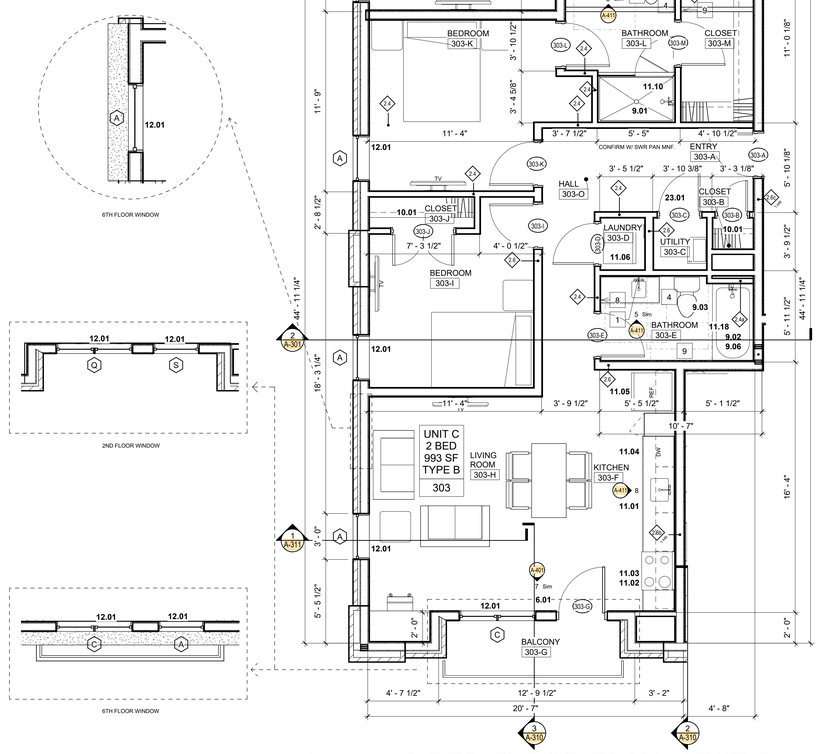
DIV 23 - HEATING, VENTILATION, AND AIR CONDITIONING
23.01 CONTRACTOR TO PROVIDE FRAMED OPENING THROUGH WALL, CENTERED ABOVE DOOR OPENING FOR RETURN GRILE. SEE MECH.



NORTH

7 2-BED CEILING PLAN - UNIT C

1/4" = 1'-0"



NORTH

5 2-BED FLOOR PLAN - UNIT C

1/4" = 1'-0"

TYPICAL - 203, 303, 403, 503, & 603

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Fort Wayne, Indiana 46802
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Certification: 09.13.2024 BID SET

Consultant Logo:

Key Plan:

THE LANDING 3.0

NEW CONSTRUCTION
555 S. HARRISON ST.
Fort Wayne, Indiana 46802

REVISION		
No.	Date	Revision

DRAWING CONTENTS:
ENLARGED PLANS UNIT C & D

ISSUE DATE: 09.13.2024
PROJECT NO. 23029

DRAWING NO.
A-402

Plot Time/Date: 9/13/2024 2:50:40 PM
Drawing Name: Template.rvt

REFLECTED CEILING FINISH LEGEND

GYPSUM (TYPICAL APARTMENT CEILING)
1-HR RATED GYPSUM BOARD HORIZONTAL ASSEMBLY - ATTACHED TO UNDERSIDE OF FLOOR/ ROOF FRAMING ABOVE. SEE HORIZONTAL ASSEMBLY LEGEND
COLOR: SEE FINISH LEGEND
FINISH: SMOOTH

GYPSUM BULKHEAD
SECONDARY DRYWALL BULKHEAD FRAMING OVER SUSPENDED METAL STUD FRAMING.
COLOR: SEE FINISH LEGEND
FINISH: SMOOTH

ACP-1
MANUFACTURER: ARMSTRONG COMMERCIAL CEILINGS
PRODUCT TYPE: CALLA, SQUARE LAY IN
PRODUCT NO.: 2820
SIZE: 24" x 24" X 1"
COLOR: WHITE
GRID SYSTEM: 15/16 PRELUDE XL EXPOSED TEE (WHITE)

UNIT ELECTRICAL MOCK UP NOTE: PRIOR TO ROUGH IN ON MULTIPLE FLOORS EC SHALL MOCK-UP ALL BACK BOX'S (POWER, SWITCHING, LIGHTING, FIRE ALARM, ECT.) IN A 1 UNIT OF EACH UNIT TYPE AND HOLD AN ON SITE MOCK-UP REVIEW WALKTHORUGH WITH OWNER AND ARCHITECT TO CONFIRM ALL ROUGH IN LOCATIONS PRIOR TO FINALIZING ROUGH IN'S IN ALL UNITS OR PULLING ANY WIRE.

TOILET ACCESSORIES SCHEDULE

ITEM	MODEL NO.	DESCRIPTION	SUPPLIED BY	INSTALLED BY
1	-	STAINLESS STEEL CHANNEL FRAME MIRROR: CENTER OVER SINK, REFER TO ADA CLEARANCES AND TOLERANCES DETAIL FOR MOUNTING HEIGHTS.	CONTRACTOR	CONTRACTOR
2	-	SURFACE MOUNTED PAPER TOWEL DISPENSER: REFER TO ADA CLEARANCES AND TOLERANCES DETAIL FOR MOUNTING HEIGHT.	CONTRACTOR	CONTRACTOR
3	-	SURFACE MOUNTED SOAP DISPENSER: REFER TO ADA CLEARANCES AND TOLERANCES DETAIL FOR MOUNTING HEIGHT.	CONTRACTOR	CONTRACTOR
4	-	SURFACE MOUNTED TOILET PAPER DISPENSER: REFER TO ADA CLEARANCES AND TOLERANCES DETAIL FOR MOUNTING HEIGHT.	CONTRACTOR	CONTRACTOR
5	-	42" GRAB BAR: CONCEALED MOUNTING WITH SNAP FLANGE. REFER TO ADA CLEARANCES AND TOLERANCES DETAIL FOR MOUNTING HEIGHT.	CONTRACTOR	CONTRACTOR
6	-	36" GRAB BAR: CONCEALED MOUNTING WITH SNAP FLANGE. REFER TO ADA CLEARANCES AND TOLERANCES DETAIL FOR MOUNTING HEIGHT.	CONTRACTOR	CONTRACTOR
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8	-	TOWEL HOOK: MOUNTED AT 48" A.F.F.	CONTRACTOR	CONTRACTOR
9	-	18" TOWEL BAR: MOUNTED AT 48" A.F.F.	CONTRACTOR	CONTRACTOR
10	-	60" CURVED SHOWER ROD: MOUNTED AT 84" A.F.F.	CONTRACTOR	CONTRACTOR

TOILET ACESSORIES GENERAL NOTE:

TOILET ACESSORIES BoD TBD BY CONTRACTRO FORM ACCETABLE MAUFACTURES BELOW GIVEN ALL TOILET ACESSORIES ARE PROVIED FROM A SINGEL PRODUCT FAMILY AND ARE **"SATIN CHROME"** FINIISH

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   - A. BRADLEY
   - B. BOBRICK
   - C. ASI
   - D. KOHLER
   - E. MOHEN
   - F. DELTA
   - G. OR EAUL AS APROVED.

FLOOR PLAN NOTES

DIV 3 - CONCRETE
3.01 CONCRETE STOOP. SEE STRUCTURAL FOR STOOP DTL.

DIV 5 - METALS
5.01 24" WIDE WALL MOUNTED ALLUMINUM ROOF ACCESS LADDER. EQUAL TO OKEEFFE'S INC, MODLE 500 FIXED ACCESS LADDER., MILL FINISH., INCLUDE WITH SECURITY DOOR AND PAD LOCK AND WALL BRACKETS AS REQUIERED. PROVIDE SHOP DRAWING FOR REVIEW.

DIV 6 - WOOD, PLASTICS, AND COMPOSITES
6.01 PROVIDE WOOD CASINGS AT BALCONY DOOR & WINDOW PER TYPICAL ELEVATION
6.02a NEW TREX COMPOSITE DECK OVER 2 X 6 TREATED WOOD FRAMING WITH 4 X 4 TREATED WOOD POSTS IN CONCRETE FOOTINGS. SEE TYPICAL DECK FOOTING DETAILS FOR FOUNDATION AND FRAMING NOTES. PROVIDE PRODUCT SAMPLES OF TREX DECKING MATERIALS TO OWNER/ ARCHITECT FOR APPROVAL PRIOR TO PURCHASE.
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6.02c NEW FINISH FLOOR ELEVATION TO ALIGN WITH EXISTING RESTAURANT FINISHED FLOOR AT EXISTING OPENING. (F.V.)

DIV 7 - THERMAL AND MOISTURE PROTECTION
7.01 ELECTRICAL OUTLETS IN KITCHENS SHALL BE COORDINATED AS TO NOT CONFLICT WITH EACH OTHER IN BACK TO BACK KITCHENS. . IN NOT CASE SHALL BACK BOX BE INSTALLED BACK TO BACK. IN SUCH LOCATIONS BACK BOX 'S SHALL BE INSTALLED ON OPPOSITE SIDES OF THE SAME STUD. SEE FIRESTOPPING SPEC FOR MORE INFO ON BACK BOX 'S IN RATED WALLS

DIV 8 - OPENINGS
8.01 CARD READER.
8.02 WALL MOUNTED ADA PUSH PAD.
8.03 NARROW STYLE MULLION MOUNTED WIRELESS ADA PUSH PAD.
8.04 ACTIVE DOOR LEAF.
8.05 APARTMENT ENTRY AIPHONE SYSTEM PANEL.

DIV 9 - FINISHES
9.01 PROVIDE IN WALL BLOCKING FOR FUTURE GRAB BARS IN SHOWER. SEE TYPICAL ADA/ ANSI SHOWER GRAB BAR DTL.
9.02 PROVIDE IN WALL BLOCKING FOR FUTURE GRAB BARS IN BATHTUB. SEE TYPICAL ADA/ ANSI TUB GRAB BAR DTL.
9.03 PROVIDE IN WALL BLOCKING FOR FUTURE SWING UP GRAB BARS. SEE TYPICAL SWING UP GRAB BAR BLOCKING DTL.
9.04 PROVIDE IN WALL BLOCKING FOR FUTURE GRAB BARS. SEE TYPICAL SWING UP GRAB BAR BLOCKING DTL.
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9.06 TILE TUB SURROUND WITH FIBERGLASS TUB. SEE FINISH LEGEND FOR MORE INFO.
9.07 DRYWALL KNEE WALL BELOW. SEE ISLAND COUNTER DETAIL FOR MORE INFO.
9.08 PROVIDE GYP BOARD EQUAL TO: MOLD TOUGH, AR FIRE CODE TYPE X, ABUSE RESISTANT GYPSUM ON ALL WALLS IN TRASH ROOM
9.09 PROVIDE FRP WALL PANLES 8' TALL 36" EITHER WAY OUT OF CORNER AT MOP SINK LOCATION.

DIV 10 - SPECIALTIES
10.01 CLOSET SHELVING. SEE CLOSET SHELVING DETAIL AND SHEET A-410.
10.02 1-HR FIRE RATED SEMI RECESSED FIRE EXTINGUISHER CABINET WITH EXTINGUISHER. SEE SPEC FOR MORE INFO.

DIV 11 - EQUIPMENT
11.01 CONTRACTOR PROVIDED & INSTALLED GARBAGE DISPOSAL. SEE MEP DRAWINGS FOR MORE INFO.
11.02 CONTRACTOR PROVIDED & INSTALLED 30" WIDE REAR CONTROL ELECTRIC RANGE.SEE SPECS FOR MORE INFO.
11.02A CONTRACTOR PROVIDED & INSTALLED 30" WIDE FRONT CONTROL (ADA) ELECTRIC RANGE.SEE SPECS FOR MORE INFO.
11.03 CONTRACTOR PROVIDED & INSTALLED 30" WIDE OVER THE RANGE MICROWAVE WITH RECIRCULATING EXHAUST FAN. SEE SPECS FOR MORE INFO.
11.04 CONTRACTOR PROVIDED & INSTALLED STANDARD HEIGHT 24 " WIDE DISHWASHER. SEE MEP DRAWINGS FOR MORE INFO. SEE SPECS FOR MORE INFO.
11.04A CONTRACTOR PROVIDED & INSTALLED STANDARD ADA HEIGHT 24 " WIDE DISHWASHER. SEE MEP DRAWINGS FOR MORE INFO. SEE SPECS FOR MORE INFO.
11.05 CONTRACTOR PROVIDED & INSTALLED 30" WIDE REFRIGERATOR WITH ICE MAKER CONNECTIONS. SEE MEP DRAWINGS FOR MORE INFO. SEE SPECS FOR MORE INFO.
11.06 CONTRACTOR PROVIDED & INSTALLED STACKABLE ELECTRIC CLOTHES WASHER & CLOTHES DRYER. PROVIDE UTILITY CONNECTIONS AS REQUIRED SEE MEP DRAWINGS. SEE SPECS FOR MORE INFO.
11.06A CONTRACTOR PROVIDED & INSTALLED SIDE BY SIDE ELECTRIC CLOTHES WASHER & CLOTHES DRYER. PROVIDE UTILITY CONNECTIONS AS REQUIRED SEE MEP DRAWINGS. SEE SPECS FOR MORE INFO.
11.07 CONTRACTOR PROVIDED & INSTALLED 30" WIDE REFRIGERATOR WITH ICE MAKER CONNECTIONS. SEE MEP DRAWINGS FOR MORE INFO. SEE SPECS FOR MORE INFO. .
11.09 TRASH COMPACTOR AND POWER UNITS PROVIDED AND INSTALLED BY OWNER 'S VENDOR. PROVIDE POWER AS REQUIRED. COORDINATE FINAL POWER ROUGH IN LOCATION IN FIELD WITH OWNER/VENDOR PRIOR TO ROUGH IN.BASIS OF DESIGN: MINI-MAC, APARTMENT TRASH
COMPACTOR, MODEL 3A, 120 VOLT POWER REQUIREMENT. TRASH COMPACTOR CONTRACT PERSON: SCOTT KELSEY, PHONE: 616-283-0029
11.10 PROVIDE AND INSTALL GLASS SHOWER DOOR. SHOWER DOOR BoD: BASCO SHOWER ENCLOSURES, INFINITY SERIES-FRAMELESS 1/4" GLASS SWING & PANEL SHOWER DOOR MODEL # 1413NP, 29" WIDE DOOR OPENING, 1/4" SHOWER GUARD, CLEAR GLASS, CHROME FINISH , 76" TALL UNIT, INSTALL PER MANUFACTURES WRITTEN INSTALLATION INSTRUCTIONS WITH MANUFACTURE RECOMMENDED HARDWARE, SEALS, GASKETS, SEALANTS AND ANCHORS.
11.13 EMERGENCY RESPONDERS. WALL MOUNTED KNOX BOX. COORDINATE FINAL LOCATION IN FIELD WITH AHJ.
11.14 MAIL/ PACKAGE DELIVERY. WALL MOUNTED KNOX BOX. COORDINATE FINAL LOCATION IN FIELD WITH USPS.
11.15 CONTRACTOR PROVIDED & INSTALLED 30"" WIDE RECIRCULATING RANGE/HOOD SEE SPECS FOR MORE INFO.,""
11.16 TRASH COMPANY. WALL MOUNTED KNOX BOX. COORDINATE FINAL LOCATION IN FIELD WITH USPS.
11.17 PLANTERS BY FUTURE TENANT TO DEFINE DINING AREA.
11.18 PROVIDE AND INSTALL GLASS SHOWER DOOR. SHOWER DOOR BOD: BASCO SHOWER ENCLOSURES, ROTOLO SEMI-FRAMELESS, ½" GLASS, SLIDING BATH TUB DOOR, MODLE# 5450, 1/4" SHOWER GUARD CLEAR GLASS, CHROME FINISH , 65.5" TALL UNIT, INSTALL PER MANUFACTURES WRITTEN INSTALLATION INSTRUCTIONS WITH MANUFACTURE RECOMMENDED HARDWARE, SEALS, GASKETS, SEALANTS AND ANCHORS.
11.19 CONTRACTOR PROVIDED AND INSTALLED "WASTE CADDY" EQUAL TO: DJPRODUCTS INC.,CART CADDY SHORTY DUMPSTER MOVERS. PROVIDE 15 AM DEDICATED CHARGING OUTLETS ON WALL ADJACENT FOR CHARGING120 VOLT POWER REQUIREMENT. TRASH COMPACTOR CONTRACT PERSON: SCOTT KELSEY, PHONE: 616-283-0029

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12.02 PROVIDE SEMI-OPAQUE FROSTED PRIVACY FILM ON INTERIOR OF GLAZING

DIV 14 - CONVEYING EQUIPMENT
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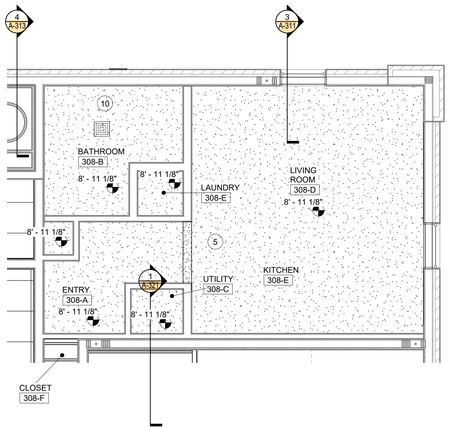
DIV 22 - PLUMBING
22.01 FULLY ADA FIBERGLASS SHOWERS ENCLOSURE EQUAL TO: 63 " X 37" BEST BATH INCLUDING, ADA GRAB BARS, ADA SHOWER SEAT, COLLAPSIBLE DAM AT THRESHOLD, ADJUSTABLE SHOWER HEAD. SEE PLUMBING FOR MORE INFO.

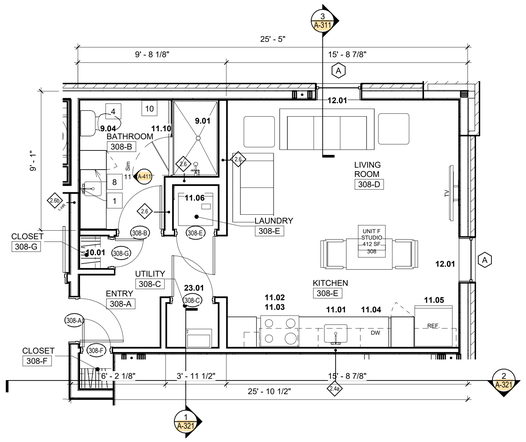
DIV 23 - HEATING, VENTILATION, AND AIR CONDITIONING
23.01 CONTRACTOR TO PROVIDE FRAMED OPENING THROUGH WALL, CENTERED ABOVE DOOR OPENING FOR RETURN GRILE. SEE MECH.



STUDIO CEILING PLAN - UNIT F

1/4" = 1'-0"

NORTH

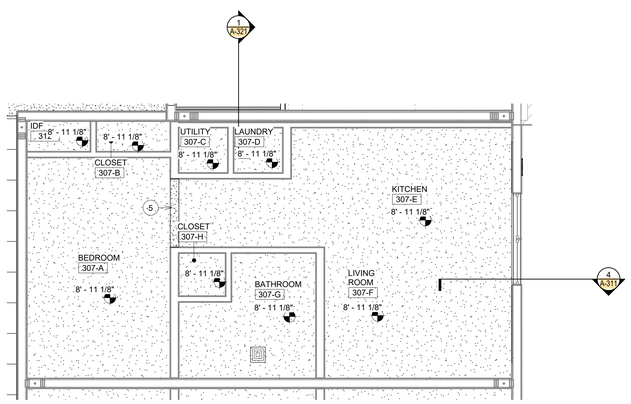


STUDIO FLOOR PLAN - UNIT F

1/4" = 1'-0"

UNIT F - 208, 308, 408, 508, & 608

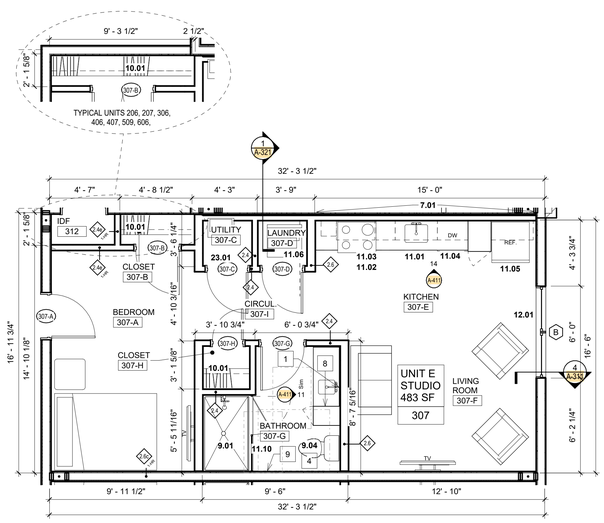
NORTH



1-BED CEILING PLAN - UNIT E

1/4" = 1'-0"

NORTH



1-BED FLOOR PLAN - UNIT E

1/4" = 1'-0"

UNIT E - 206, 207, 305, 306, 307, 405, 406, 407, 505, 506, 507, 605, 606, &607

NORTH

MKM
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435 E. Brackenridge St.
Fort Wayne, Indiana 46802
p 260.422.0783
www.MKMdesign.com

Certification: 09.13.2024 BID SET

Consultant Logo:

Key Plan:

THE LANDING 3.0

NEW CONSTRUCTION
555 S. HARRISON ST.
Fort Wayne, Indiana 46802

REVISION

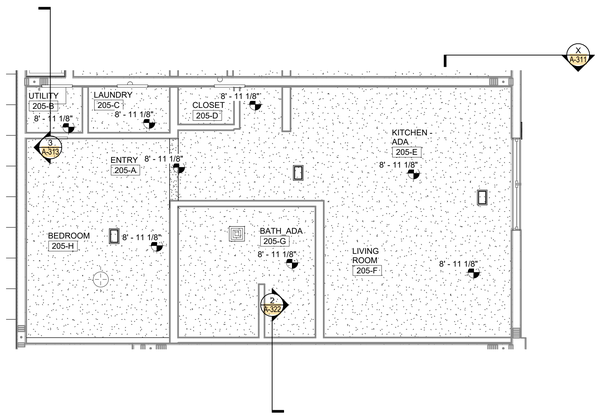
No.	Date	Revision

DRAWING CONTENTS:
ENLARGED PLANS UNIT E & F

ISSUE DATE: 09.13.2024
PROJECT NO. 23029

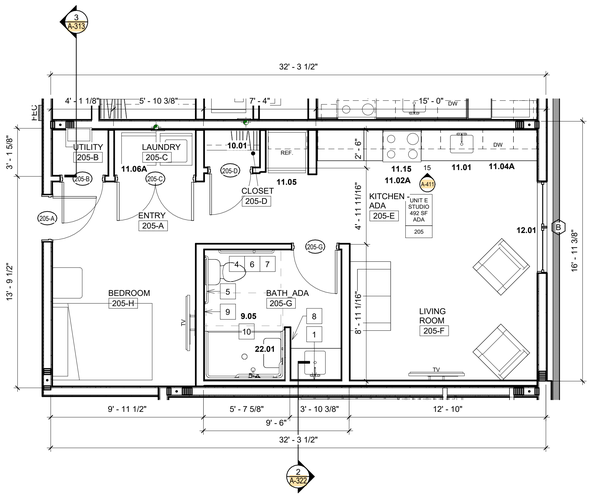
DRAWING NO.
A-403

Plot Time/Date: 9/17/2024 2:50:42 PM
Drawing Name: template.rvt



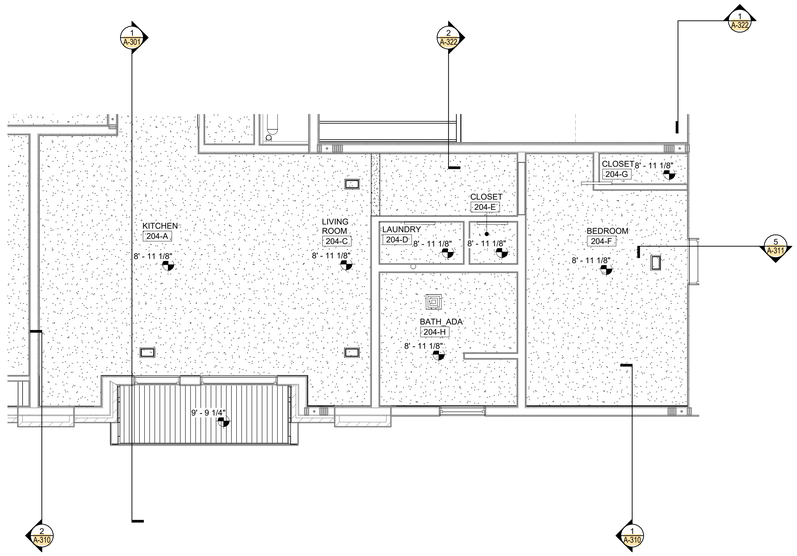
NORTH 3 **1-BED CEILING PLAN - UNIT E - ADA**

1/4" = 1'-0"



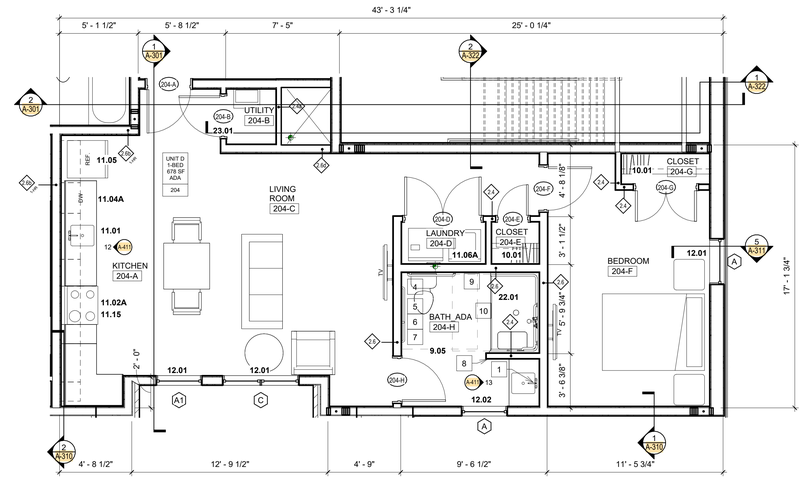
NORTH 2 **2-BED FLOOR PLAN - UNIT E - ADA**

1/4" = 1'-0"



NORTH 4 **1-BED CEILING PLAN - UNIT D - ADA**

1/4" = 1'-0"



NORTH 1 **2-BED FLOOR PLAN - UNIT D - ADA**

1/4" = 1'-0"

REFLECTED CEILING FINISH LEGEND

GYPSUM (TYPICAL APARTMENT CEILING)
1-HR RATED GYPSUM BOARD HORIZONTAL ASSEMBLY -
ATTACHED TO UNDERSIDE OF FLOOR/ ROOF FRAMING ABOVE. SEE HORIZONTAL ASSEMBLY LEGEND
COLOR: SEE FINISH LEGEND
FINISH: SMOOTH

GYPSUM BULKHEAD
SECONDARY DRYWALL BULKHEAD FRAMING OVER SUSPENDED METAL STUD FRAMING.
COLOR: SEE FINISH LEGEND
FINISH: SMOOTH

ACP-1
MANUFACTURER: ARMSTRONG COMMERCIAL CEILINGS
PRODUCT TYPE: CALLA, SQUARE LAY IN
PRODUCT NO.: 2820
SIZE: 24" x 24" X 1"
COLOR: WHITE
GRID SYSTEM: 15/16 PRELUDE XL EXPOSED TEE (WHITE)

UNIT ELECTRICAL MOCK UP NOTE: PRIOR TO ROUGH IN ON MULTIPLE FLOORS EC SHALL MOCK-UP ALL BACK BOX'S (POWER, SWITCHING, LIGHTING, FIRE ALARM, ECT.) IN A 1 UNIT OF EACH UNIT TYPE AND HOLD AN ON SITE MOCK-UP REVIEW WALKTHORUGH WITH OWNER AND ARCHITECT TO CONFIRM ALL ROUGH IN LOCATIONS PRIOR TO FINALIZING ROUGH IN'S IN ALL UNITS OR PULLING ANY WIRE.

TOILET ACCESSORIES SCHEDULE

ITEM	MODEL NO.	DESCRIPTION	SUPPLIED BY	INSTALLED BY
1	-	STAINLESS STEEL CHANNEL FRAME MIRROR: CENTER OVER SINK, REFER TO ADA CLEARANCES AND TOLERANCES DETAIL FOR MOUNTING HEIGHTS.	CONTRACTOR	CONTRACTOR
2	-	SURFACE MOUNTED PAPER TOWEL DISPENSER: REFER TO ADA CLEARANCES AND TOLERANCES DETAIL FOR MOUNTING HEIGHT.	CONTRACTOR	CONTRACTOR
3	-	SURFACE MOUNTED SOAP DISPENSER: REFER TO ADA CLEARANCES AND TOLERANCES DETAIL FOR MOUNTING HEIGHT.	CONTRACTOR	CONTRACTOR
4	-	SURFACE MOUNTED TOILET PAPER DISPENSER: REFER TO ADA CLEARANCES AND TOLERANCES DETAIL FOR MOUNTING HEIGHT.	CONTRACTOR	CONTRACTOR
5	-	42" GRAB BAR: CONCEALED MOUNTING WITH SNAP FLANGE, REFER TO ADA CLEARANCES AND TOLERANCES DETAIL FOR MOUNTING HEIGHT.	CONTRACTOR	CONTRACTOR
6	-	36" GRAB BAR: CONCEALED MOUNTING WITH SNAP FLANGE, REFER TO ADA CLEARANCES AND TOLERANCES DETAIL FOR MOUNTING HEIGHT.	CONTRACTOR	CONTRACTOR
7	-	18" GRAB BAR: CONCEALED MOUNTING WITH SNAP FLANGE, REFER TO ADA CLEARANCES AND TOLERANCES DETAIL FOR MOUNTING HEIGHT.	CONTRACTOR	CONTRACTOR
8	-	TOWEL HOOK: MOUNTED AT 48" A.F.F.	CONTRACTOR	CONTRACTOR
9	-	18" TOWEL BAR: MOUNTED AT 48" A.F.F.	CONTRACTOR	CONTRACTOR
10	-	60" CURVED SHOWER ROD: MOUNTED AT 84" A.F.F.	CONTRACTOR	CONTRACTOR

TOILET ACESSORIES GENERAL NOTE:

TOILET ACESSORIES BoD TBD BY CONTRACTRO FORM ACCETABLE MAUFACTURES BELOW GIVEN ALL TOILET ACESSORIES ARE PROVIED FROM A SINGEL PRODUCT FAMILY AND ARE **"SATIN CHROME"** FINIISH

1. MANUFACTURES
   - A. BRADLEY
   - B. BOBRICK
   - C. ASI
   - D. KOHLER
   - E. MOHEN
   - F. DELTA
   - G. OR EAUL AS APROVED.

FLOOR PLAN NOTES

DIV 3 - CONCRETE
3.01 CONCRETE STOOP. SEE STRUCTURAL FOR STOOP DTL.

DIV 5 - METALS
5.01 24" WIDE WALL MOUNTED ALLUMINUM ROOF ACCESS LADDER. EQUAL TO OKEEFFE'S INC, MODLE 500 FIXED ACCESS LADDER., MILL FINISH., INCLUDE WITH SECURITY DOOR AND PAD LOCK AND WALL BRACKETS AS REQUIERED. PROVIDE SHOP DRAWING FOR REVIEW.

DIV 6 - WOOD, PLASTICS, AND COMPOSITES
6.01 PROVIDE WOOD CASINGS AT BALCONY DOOR & WINDOW PER TYPICAL ELEVATION
6.02a NEW TREX COMPOSITE DECK OVER 2 X 6 TREATED WOOD FRAMING WITH 4 X 4 TREATED WOOD POSTS IN CONCRETE FOOTINGS. SEE TYPICAL DECK FOOTING DETAILS FOR FOUNDATION AND FRAMING NOTES. PROVIDE PRODUCT SAMPLES OF TREX DECKING MATERIALS TO OWNER/ ARCHITECT FOR APPROVAL PRIOR TO PURCHASE.
6.02b (2) NEW +/- 6' TALL STEPS IN NEW TREX DECK. FRAME WITH TREATED WOOD 2 X 6 FRAMING 16 " O.C. MAX WITH TREX DECKING TREADS AND RISERS. – (F.V.) EXISTING ELEVATIONS AND ADJUST RISERS AS REQUIRED.
6.02c NEW FINISH FLOOR ELEVATION TO ALIGN WITH EXISTING RESTAURANT FINISHED FLOOR AT EXISTING OPENING. (F.V.)

DIV 7 - THERMAL AND MOISTURE PROTECTION
7.01 ELECTRICAL OUTLETS IN KITCHENS SHALL BE COORDINATED AS TO NOT CONFLICT WITH EACH OTHER IN BACK TO BACK KITCHENS. . IN NOT CASE SHALL BACK BOX BE INSTALLED BACK TO BACK. IN SUCH LOCATIONS BACK BOX 'S SHALL BE INSTALLED ON OPPOSITE SIDES OF THE SAME STUD. SEE FIRESTOPPING SPEC FOR MORE INFO ON BACK BOX 'S IN RATED WALLS

DIV 8 - OPENINGS
8.01 CARD READER.
8.02 WALL MOUNTED ADA PUSH PAD.
8.03 NARROW STYLE MULLION MOUNTED WIRELESS ADA PUSH PAD.
8.04 ACTIVE DOOR LEAF.
8.05 APARTMENT ENTRY AIPHONE SYSTEM PANEL.

DIV 9 - FINISHES
9.01 PROVIDE IN WALL BLOCKING FOR FUTURE GRAB BARS IN SHOWER. SEE TYPICAL ADA/ ANSI SHOWER GRAB BAR DTL.
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www.MKMdesign.com

Certification: 09.13.2024 BID SET

Consultant Logo:

Key Plan:

THE LANDING 3.0

NEW CONSTRUCTION
555 S. HARRISON ST.
Fort Wayne, Indiana 46802

REVISION		
No.	Date	Revision

DRAWING CONTENTS:
ENLARGED PLANS UNIT D ADA & E ADA

ISSUE DATE: 09.13.2024
PROJECT NO. 23029

DRAWING NO.
A-404

Plot Time/Date: 9/12/2024 2:50:44 PM
Drawing Name: Template.rvt

CASEWORK GENERAL NOTES

A. ALL CASEWORK SHALL COMPLY WITH THE FOLLOWING REQUIREMENTS UNLESS NOTED OTHERWISE

B. ALL WALL CABINETS SHALL BE 12" (INCHES) DEEP. (U.N.O.)

C. ALL BASE CABINETS SHALL BE 24" (INCHES) DEEP. (U.N.O.)

D. ALL INDIVIDUAL WALL CABINET WIDTHS SHALL BE ALIGNED WITH INDIVIDUAL BASE CABINET WIDTHS BELOW. (U.N.O.)

E. ALL WALL AND BASE CABINETS LOCATED NEXT TO A SIDE WALL, PROVIDE A MINIMUM OF A 2" FILLER PANEL AT EACH END OF UPPER/LOWER CASEWORK. (U.N.O.)

F. ALL EXPOSED CABINET SIDES SHALL RECEIVE FINISHED END PANELS. (U.N.O.)

G. ALL CABINET DOOR WIDTHS SHALL NOT EXCEED 2'-0" IN WIDTH. (U.N.O.)

H. ALL HINGES AND RELATED HARDWARE SHALL BE CONCEALED. (U.N.O.)

I. ALL COUNTERTOPS SHALL EXTEND 1" BEYOND THE DEPTH OF THE BASE CABINETS BELOW. (U.N.O)

J. ALL COUNTERTOPS WITH EXPOSED OUTSIDE CORNERS SHALL HAVE A RADIUS CORNER. (U.N.O.)

K. IF PROVIDED, ALL PLASTIC LAMINATE COUNTERTOP EXPOSED EDGES SHALL HAVE MANUFACTURE STANDARD HALF BULLNOSE PROFILE.

L. ALL GRANITE COUNTERTOPS SHOWN WITH BACKSLASHES SHALL BE PROVIDED WITH LOSE 4" BACKSPLASH AND BE PROVIDED WITH CONTINUOUS COLOR MATCH SEALANT JOINT AROUND BACKSPLASH.

M. CASEWORK SHALL BE CAULKED AT ALL JUNCTURES WITH ADJOINING MATERIALS INCLUDING WALL, BASE, COUNTERTOP, ETC. EVEN THOUGH JOINT MAY NOT BE VISIBLE.

N. ALL CASEWORK DIMENSIONS SHALL BE FIELD VERIFIED PRIOR TO SUBMITTING SHOP DRAWINGS/SHOP FABRICATION. DO NOT SCALE DRAWINGS.

O. THE CONTRACTOR SHALL PROVIDE SOLID BLOCKING AS REQUIRED FOR WALL-MOUNTED CASEWORK AND ACCESSORIES.

P. COORDINATE OWNER SUPPLIED WALL ACCESSORIES PRIOR TO INSTALLATION OF CASEWORK.

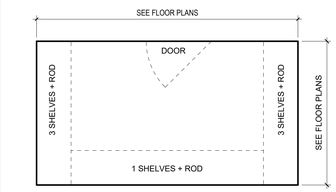
Q. CASEWORK MANUFACTURER AND INSTALLER SHALL COORDINATE WITH APPROPRIATE SUBCONTRACTORS FOR INSTALLATION OF SINKS WITH ASSOCIATED PIPING AND FITTINGS, AND FOR INSTALLATION OF ELECTRICAL RECEPTACLES, LIGHT FIXTURES, VOICE/DATA OUTLETS, DICTATION OUTLETS, ETC. WITHIN THE CASEWORK.

R. THE CONTRACTOR SHALL VERIFY AND COORDINATE WITH THE OWNER IN CLEAR DIMENSION CONFLICTS BETWEEN THE PROPOSED EQUIPMENT SUPPLIED BY THE OWNER AND THE CASEWORK FOUND WITHIN THE CONSTRUCTION DOCUMENTS AND SHALL REPORT AT ONCE TO THE ARCHITECT ANY ERROR, INCONSISTENCY, OR OMISSION THAT HE MAY DISCOVER DURING THIS COORDINATION.

S. ALL WALL CABINETS SHALL BE PROVIDED WITH ADJUSTABLE SHELVES

T. ALL STANDARD BASE CABINETS SHALL BE PROVIDED WITH PULL OUT SHELVING UNITS

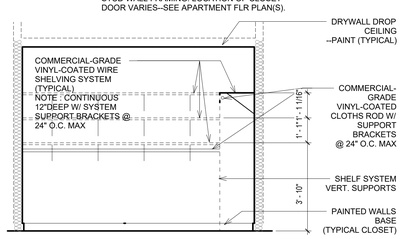
U. ALL CABINETS DOORS AND DRAWERS TO INCLUDE PULLS. SEE CASEWORK FINISH LEGEND FOR MORE INFO.



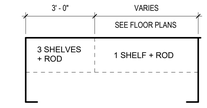
BEDROOM CLOSET (WALK-IN) UNIT C

SHELVING SYSTEM BASIS OF DESIGN: 12" DEEP CLOSET MAID, SHELF & ROD SHELVING, WITH ALL REQUIRED MOUNTING ACCESSORIES AND BRACKETS.

PROVIDE ADEQUATE 2x WOOD BLOCKING IN STUD WALL FRAMING. LOCATION OF CLOSET DOOR VARIES--SEE APARTMENT FLR PLAN(S).



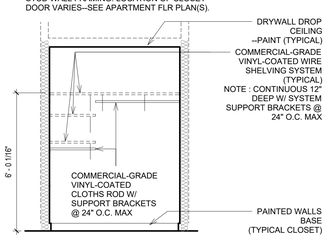
BEDROOM CLOSET (WALK-IN) ADA



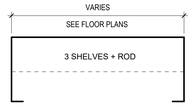
BEDROOM CLOSET (TYPICAL)

SHELVING SYSTEM BASIS OF DESIGN: 12" DEEP CLOSET MAID, SHELF & ROD SHELVING, WITH ALL REQUIRED MOUNTING ACCESSORIES AND BRACKETS.

PROVIDE ADEQUATE 2x WOOD BLOCKING IN STUD WALL FRAMING. LOCATION OF CLOSET DOOR VARIES--SEE APARTMENT FLR PLAN(S).



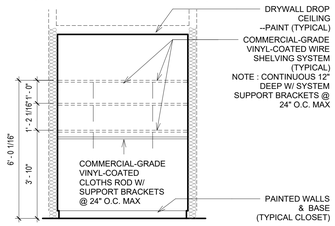
BEDROOM CLOSET (TYPICAL)



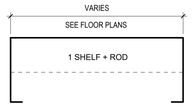
BEDROOM CLOSET (ADA)

SHELVING SYSTEM BASIS OF DESIGN: 12" DEEP, CLOSET MAID, CLOSE MESH SHELVING, WITH ALL REQUIRED MOUNTING ACCESSORIES AND BRACKETS.

PROVIDE ADEQUATE 2x WOOD BLOCKING IN STUD WALL FRAMING. LOCATION OF CLOSET DOOR VARIES--SEE APARTMENT FLR PLAN(S).



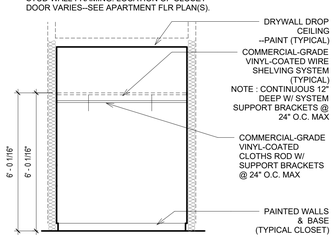
BEDROOM CLOSET (ADA)



COAT/ STORAGE CLOSET

SHELVING SYSTEM BASIS OF DESIGN: 12" DEEP, CLOSET MAID, CLOSE MESH SHELVING, WITH ALL REQUIRED MOUNTING ACCESSORIES AND BRACKETS.

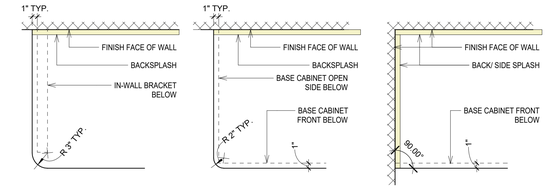
PROVIDE ADEQUATE 2x WOOD BLOCKING IN STUD WALL FRAMING. LOCATION OF CLOSET DOOR VARIES--SEE APARTMENT FLR PLAN(S).



COAT/ PANTRY CLOSET

6 CLOSET SHELVING DTL.

3/8" = 1'-0"



3" RADIUS CORNER

PROVIDE ON ALL COUNTERTOPS WHERE EXPOSED ENDS ARE LOCATED **OVER OPEN SPACE BELOW**

2" RADIUS CORNER

PROVIDE ON ALL COUNTERTOPS WHERE EXPOSED ENDS ARE LOCATED **OVER BASE CABINET BELOW**

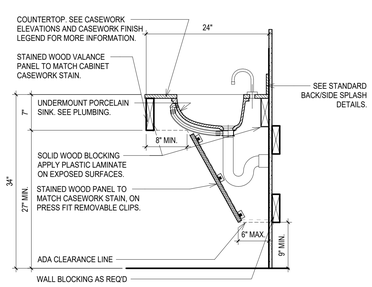
90° CORNER

PROVIDE ON ALL COUNTERTOPS WHERE ENDS ARE **LOCATED AGAINST WALL**

NOTE:
TYPICAL DETAIL FOR ALL COUNTERTOPS WITH EXPOSED OUTSIDE CORNERS. CONTRACTOR SHALL VERIFY CONDITIONS WITH FLOOR PLANS AND CASEWORK ELEVATIONS. SEE COUNTERTOP EDGE DETAILS FOR EDGE TREATMENT.

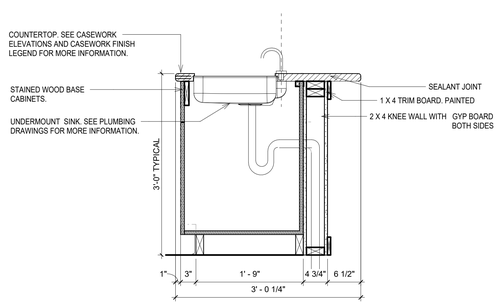
5 COUNTER DTL.

1" = 1'-0"



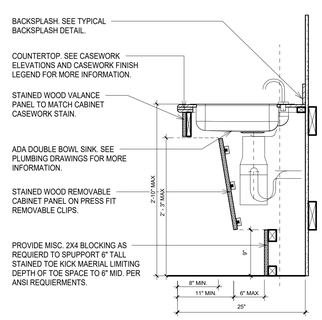
4 ADA VANITY DTL.

1" = 1'-0"



3 KITCHEN ISLAND DETAIL

1" = 1'-0"



** GARBAGE DISPOSAL BASIS OF DESIGN: MOEN GT33C

2 ADA KITCHEN SINK DETAIL

1" = 1'-0"

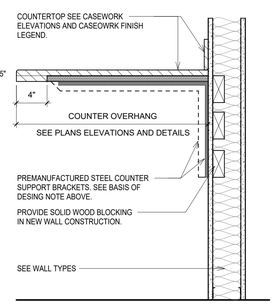
NOTE:
COUNTER SUPPORT BRACKET BASIS OF DESIGN FOR COUNTER(S) UP TO 25" IN DEPTH (DARK SHADED REGION):

CENTERLINE BRACKETS, FRONT MOUNTING BRACKET PLUS, (18" X 12") STANDARD FOR COUNTER(S) UP TO 25" IN DEPTH. ADJUST DEPTH FOR SPECIALTY COUNTER TOP DEPTHS AS NOTED ON CASEWORK ELEVATIONS. PROVIDE BRACKETS IN FACTORY WHITE AND FIELD PAINT TO MATCH WALL BEYOND.

NOTE:
COUNTER SUPPORT BRACKET BASIS OF DESIGN FOR COUNTER OVERHANGS GREATER THAN 25" (DASHED LINE):

RAKKS SURFACE MOUNT EH COUNTER SUPPORT BRACKETS EH-1824. ADJUST DEPTH FOR SPECIALTY COUNTER TOP DEPTHS AS NOTED. PROVIDE BRACKETS IN FACTORY WHITE AND FIELD PAINT TO MATCH WALL BEYOND.

NOTE:
THIS IS THE TYPICAL SUPPORT DETAIL FOR WALL MOUNTED COUNTER TOPS. SUPPORTS SHALL NOT EXCEED A MAXIMUM SPACING OF 4'-0" AND SHALL BE INSTALLED PER COUNTERTOP SUPPORT ALL MFR. RECOMMENDATIONS INSTRUCTIONS AND LIMITATIONS INCLUDING BUT NOT LIMITED TO SUPPORT SPACING AND DETAILS. SUPPORTS SHALL BE INSTALLED PER OWNER-SPECIFIC COUNTERTOP LOAD LIMITS AND PREFERENCES. CONFIRM WITH ARCHITECT AND OWNER PRIOR TO ORDERING AND INSTALLATION.



COUNTER SUPPORT

NOTE:
IN EXISTING CONSTRUCTION CONTRACTOR SHALL FIELD VERIFY EXISTING FRAMING LOCATIONS AND INSTALL BRACKETS DIRECTLY AGAINST WALL STUDS.

1 COUNTER SUPPORT DTL.

1 1/2" = 1'-0"

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Fort Wayne, Indiana 46802
p 260.422.0783
www.MKMdesign.com

Certification: 09.13.2024 BID SET

Consultant Logo:

Key Plan:

THE LANDING 3.0

NEW CONSTRUCTION
555 S. HARRISON ST.
Fort Wayne, Indiana 46802

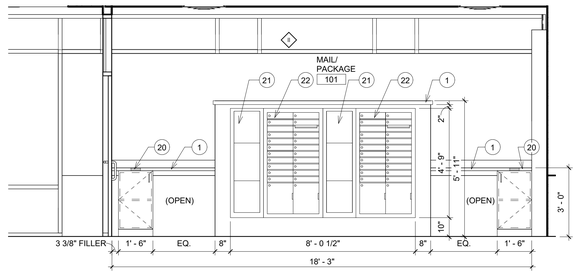
REVISION		
No.	Date	Revision

DRAWING CONTENTS:
CASEWORK GENERAL NOTES, LEGEND, & DETAILS

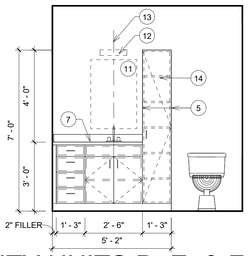
ISSUE DATE: 09.13.2024
PROJECT NO. 23029

DRAWING NO.
A-410

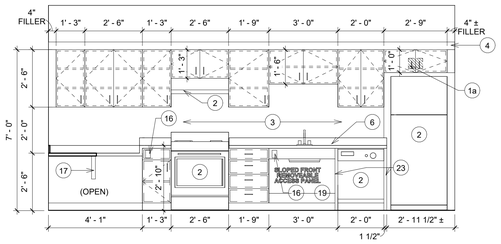
Plot Time/Date: 9/13/2024 2:50:45 PM
Drawing Name: Template.rte



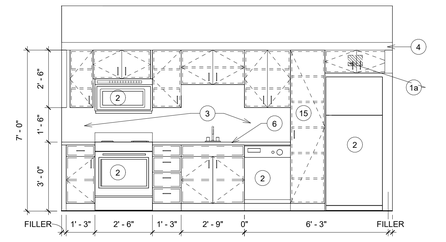
20 MAIL ROOM
3/8" = 1'-0"



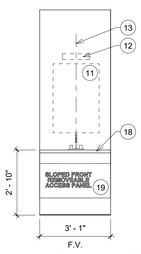
11 VANITY UNITS D, E, & F - TYPICAL
3/8" = 1'-0"



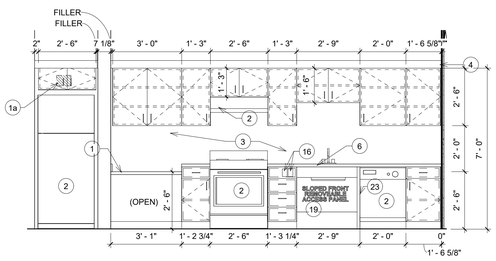
12 KITCHEN ELEV UNIT D - ADA
3/8" = 1'-0"



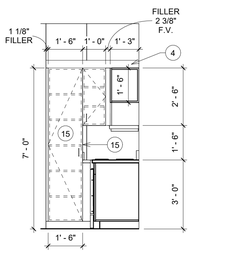
14 KITCHEN ELEV UNIT E - TYP
3/8" = 1'-0"



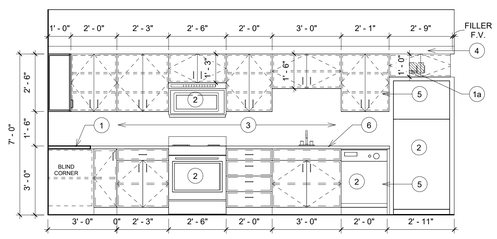
13 VANITY (ADA) - TYP.
3/8" = 1'-0"



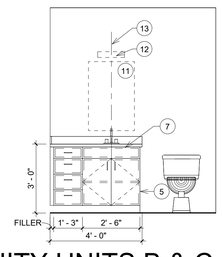
15 KITCHEN ELEV UNIT E - ADA
3/8" = 1'-0"



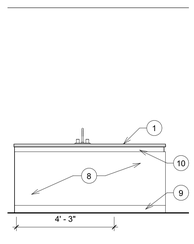
10 KITCHEN ELEV UNIT D - TYP
3/8" = 1'-0"



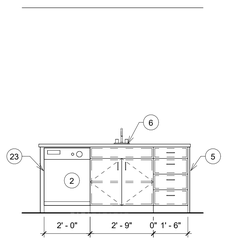
9 KITCHEN ELEV UNIT D - TYPICAL
3/8" = 1'-0"



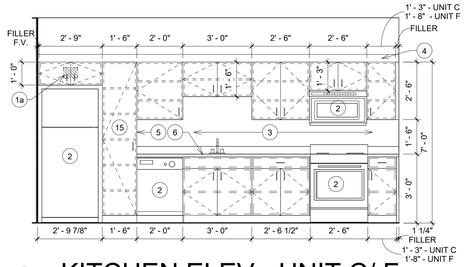
5 VANITY UNITS B & C - TYPICAL
3/8" = 1'-0"



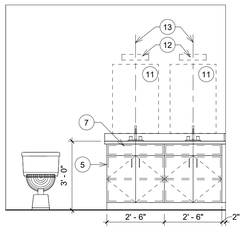
7 ISLAND UNIT B (STOOLS)
3/8" = 1'-0"



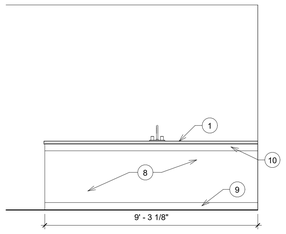
6 ISLAND UNIT B (CABINET)
3/8" = 1'-0"



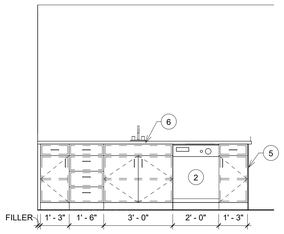
8 KITCHEN ELEV - UNIT C/ F
3/8" = 1'-0"



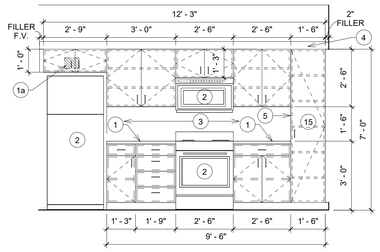
4 VANITY UNIT A - TYPICAL
3/8" = 1'-0"



3 ISLAND UNIT A (STOOLS)
3/8" = 1'-0"



2 ISLAND UNIT A (CABINET)
3/8" = 1'-0"



1 KITCHEN ELEV - UNIT A
3/8" = 1'-0"

CASEWORK/ INTERIOR ELEVATION NOTES

1 NATURAL STONE COUNTERTOP. SEE CASEWORK FINISH LEGEND FOR MORE INFO.
1a COMUNICATION PANLE IN WALL BEHIND CABINET CORDIANTE ROUGH OPENING IN BACK OF CABINET FOR ACCESS TO PANLE. PROVIDE LOCKS ON DOORS THIS CABINET ONLY.
2 APPLIANCES. SEE PLAN NOTES AND SPECIFICATION FOR MORE INFO.
3 CERAMIC TILE BACKSPLASH. SEE FINISH SCHEUDLE AND LEGEND FOR MORE INFO
4 PROVIDE AND INSTALL CROWN MOLDING ATOP WALL CABINETS. PROFILE TO BE SELECTED FROM CABINET MANUFACTURE STANDARD PROFILE OPTIONS. FINISH TO MATCH CABINET.
5 FINISHED END PANEL.
6 NATURAL STONE COUNTERTOP WITH DROP IN STAINLESS STEEL SINK. SEE PLUMBING DRAWINGS & CASEWORK FINISH LEGEND FOR MORE INFO.
7 22" DEEP NATURAL STONE COUNTERTOP WITH UNDERMOUNT CHINA SINK ON 21 " DEEP VANITY BASE CABINET. SEE PLUMBING DRAWINGS & CASEWORK FINISH LEGEND FOR MORE INFO.
8 2X4 WOOD STUD WALL WITH GYP BOARD FINISH. SEE CASEWORK SECTION FOR MORE INFO.
9 WALL BASE AS SCHEDULED.
10 1X4 WOOD WALL BASE PROFILE INSTALLED AT BASE OF COUNTERTOP, PREP AND PAINTING TO MATCH WALL SURFACE, CAULK TO BOTTOM OF COUNTERTOP.
11 WALL HUNG MIRROR. SEE TOILET ACCESSORIES SCHEUDLE.
12 VANITY LIGHT SEE ELECTRICAL
13 CENTERLINE OF VANITY LIGHT AND MIRROR TO ALIGN WITH CENTERLINE OF SINK. CONFIRM CENTERLINE DIMENSION OF SIK WITH CASEWORK SHOP DRAWINGS PRIOR TO ROUGH-IN OF SINK AND VANITY LIGHT.
14 21" DEEP TALL STORAGE CABINET WITH ADJUSTABLE SHELVES.
15 24" DEEP TALL STORAGE CABINET WITH ADJUSTABLE SHELVES.
16 CASEWORK CONTRACTOR TO REMOVE DRAWER ASSEMBLY, FIX DRAWER FRONT TO FACE OF CABINET AND PREP DRAWER FRONT FOR INSTALLATION OF SWITCH FOR RANGE HOOD CONTROL AT RANG AND SWITCH FOR GARBAGE DISPOSAL AT SINK. SEE ELECTRICAL DRAWINGS FOR MORE INFO.
17 SURFACE APPLIED STEEL COUNTER SUPPORT BRACKET.
18 25" DEEP NATURAL STONE COUNTERTOP WITH UNDERMOUNT CHINA SINK ON 24 " DEEP VANITY BASE CABINET. SEE PLUMBING DRAWINGS & CASEWORK FINISH LEGEND FOR MORE INFO.
19 ADA SLOPED VALANCE PANEL. SEE DETAIL. FINISH TO MATCH BALANCE OF CASEWORK.
20 4" DIA TRASH HOLE WITH STAINLESS STEEL RING.
21 (2) RECESSED MAILBOX UNIT EQUAL TO: SALISBURY, MODEL 3716S-09, (2) PARCEL LOCKERS. PROVIDE SHOP DRAWINGS TO COORDINATE COLOR AND ADDRESS NUMBERING WITH LOCAL MAIL CARRIER.
22 (2) RECESSED MAILBOX UNIT EQUAL TO: SALISBURY, MODEL 3716D-20 (20) MAIL SLOTS, 2PARCEL LOCKERS. PROVIDE SHOP DRAWINGS TO COORDINATE COLOR AND ADDRESS NUMBERING WITH LOCAL MAIL CARRIER.
23 1 1/2" WIDE FIXED FINISHED END PANEL.
CJ DRYWALL CONTROL JOINT.

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Certification: 09.13.2024 BID SET

JEREMY R. BENEDICT REGISTERED No. AR11200057 STATE OF INDIANA ARCHITECT

Consultant Logo:

Key Plan:

THE LANDING 3.0

NEW CONSTRUCTION
555 S. HARRISON ST.
Fort Wayne, Indiana 46802

REVISION

No.	Date	Revision

DRAWING CONTENTS:
CASEWORK ELEVATIONS

ISSUE DATE: 09.13.2024
PROJECT NO. 23029

DRAWING NO.
A-411

Plot Time/Date 9/13/2024 2:50:46 PM
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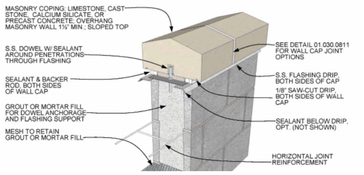
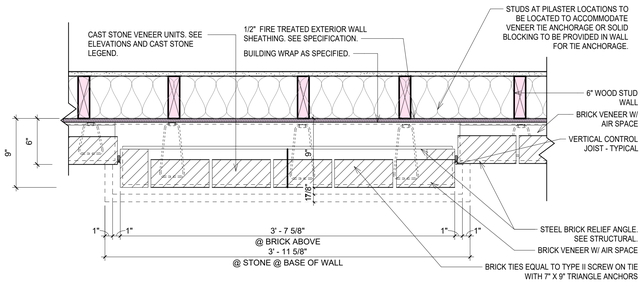


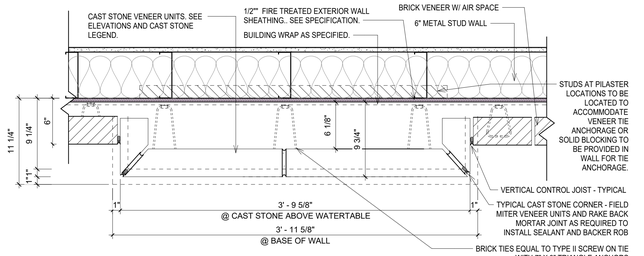
6 STONE CAP FLASHING DTL.

1" = 1'-0"

CAST STONE LEGEND

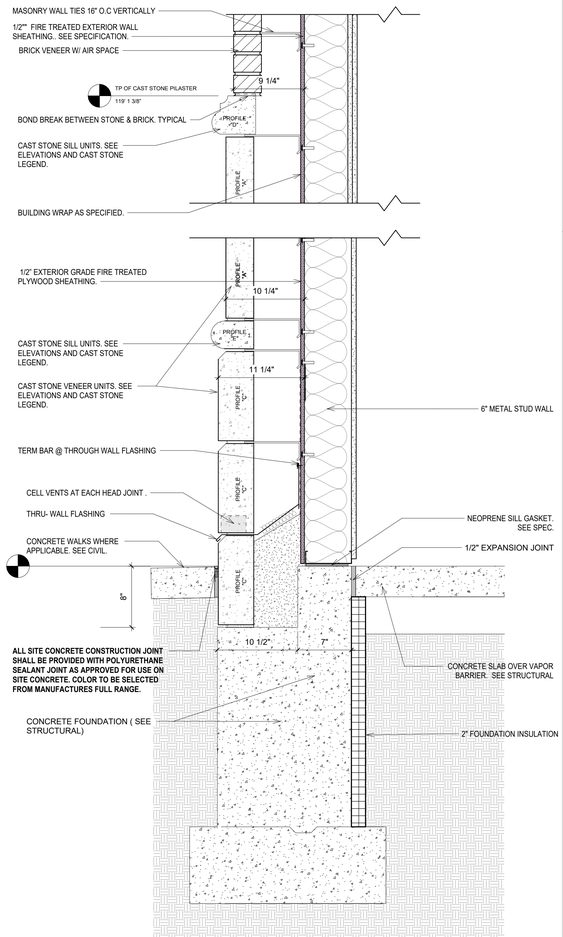
"STANDARD 23 5/8" LENGTHS (8/32) ROCKCAST SMOOTH ST-003) FIELD MITERED WITH SOFT JOINTS.	"STANDARD 47 5/8" LENGTHS (8/32) ROCKCAST SL-400) WITH MANUFACTURE STANDARD LUGS AT EACH END	"STANDARD 23 5/8" LENGTHS (8/32) ROCKCAST SMOOTH ST-523) FIELD MITERED WITH SOFT JOINTS.	"STANDARD 47 5/8" LENGTHS (8/32) ROCKCAST WT-250) FIELD MITERED WITH SOFT JOINTS.	"STANDARD 47 5/8" LENGTHS (8/32) ROCKCAST 8N-100) FIELD MITERED WITH SOFT JOINTS.	"SEMI CUSTOM COPING STONE PROFILE AS SHOWN BELOW IN STANDARD 47 5/8" LENGTHS
SECTION	SECTION	SECTION	SECTION	SECTION	SECTION
PROFILE "A"	**PROFILE "B"**	**PROFILE "C"**	**PROFILE "D"**	**PROFILE "E"**	**PROFILE "F"**





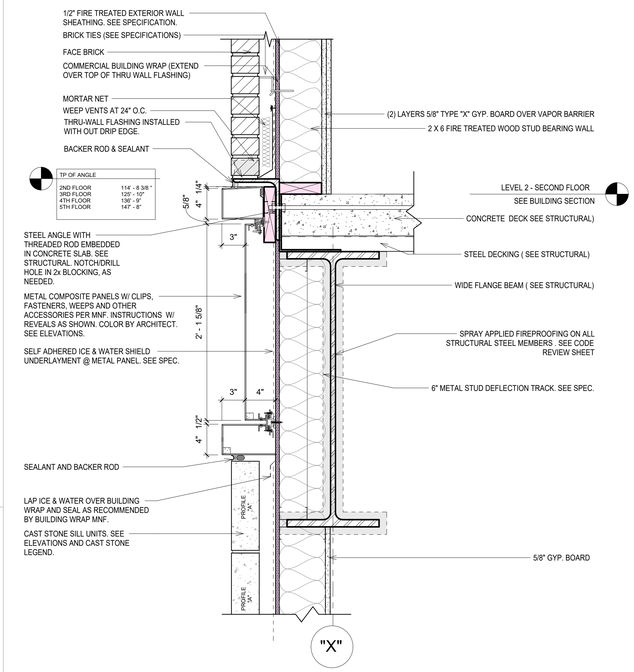
7 PILASTER PLAN DTL.

1 1/2" = 1'-0"



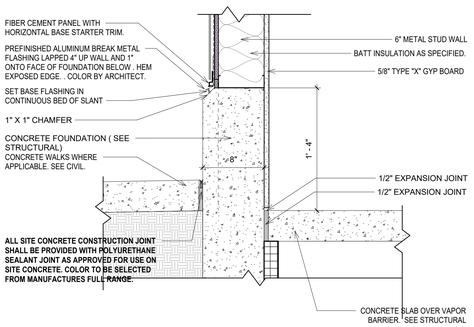
2 FOUNDATION DTL. @ PILASTER

1 1/2" = 1'-0"



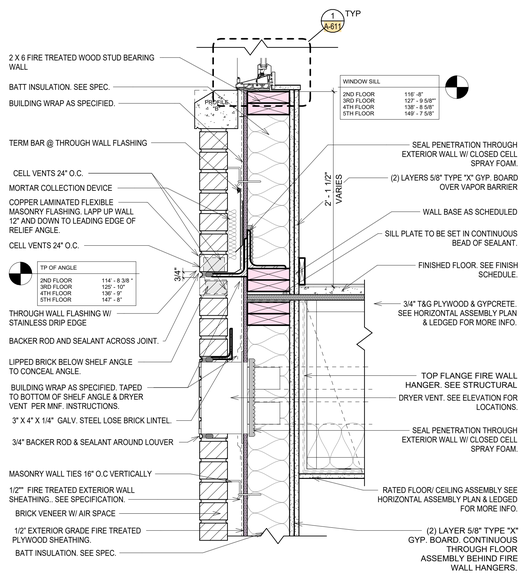
5 PLATFORM FRAMING DTL.

1 1/2" = 1'-0"



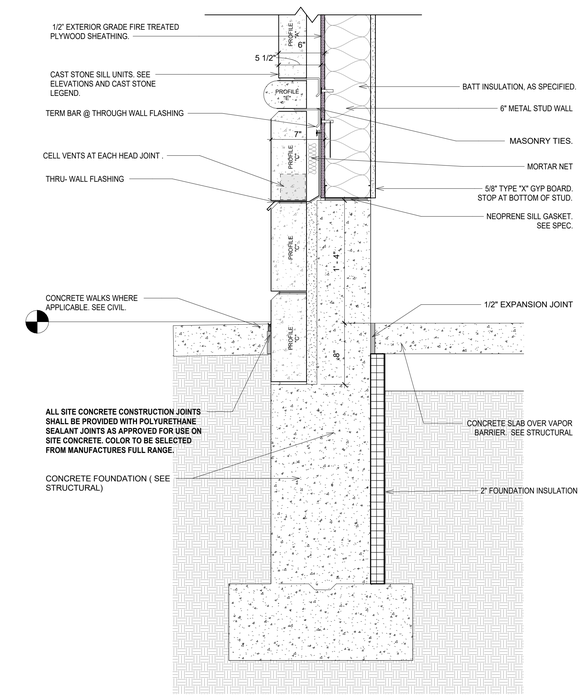
4 FIBERCEMENT BASE DTL

1 1/2" = 1'-0"



3 PLATFORM FRAMING - BRICK

1 1/2" = 1'-0"



1 FOUNDATION DTL. @ MASONRY

1 1/2" = 1'-0"

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Certification: 09.13.2024 BID SET

ANTHONY R. BENEDICT REGISTERED No AR11200057 STATE OF INDIANA ARCHITECT

Consultant Logo:

Key Plan:

THE LANDING 3.0

NEW CONSTRUCTION
555 S. HARRISON ST.
Fort Wayne, Indiana 46802

REVISION		
No.	Date	Revision

DRAWING CONTENTS:
EXTERIOR DETAILS

ISSUE DATE: 09.13.2024
PROJECT NO. 23029
DRAWING NO. A-501

Plot Time/Date: 9/11/2024 2:50:48 PM
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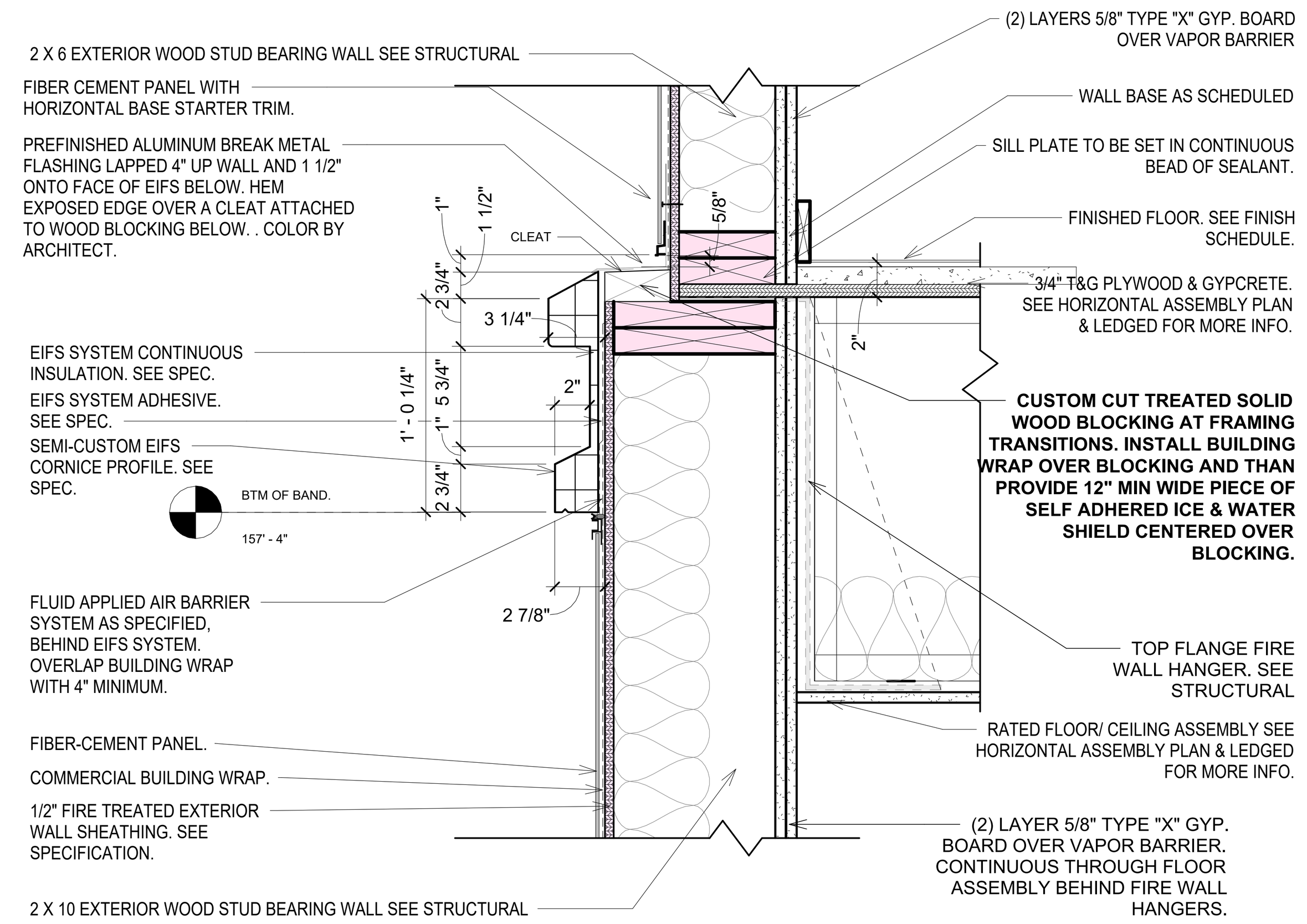
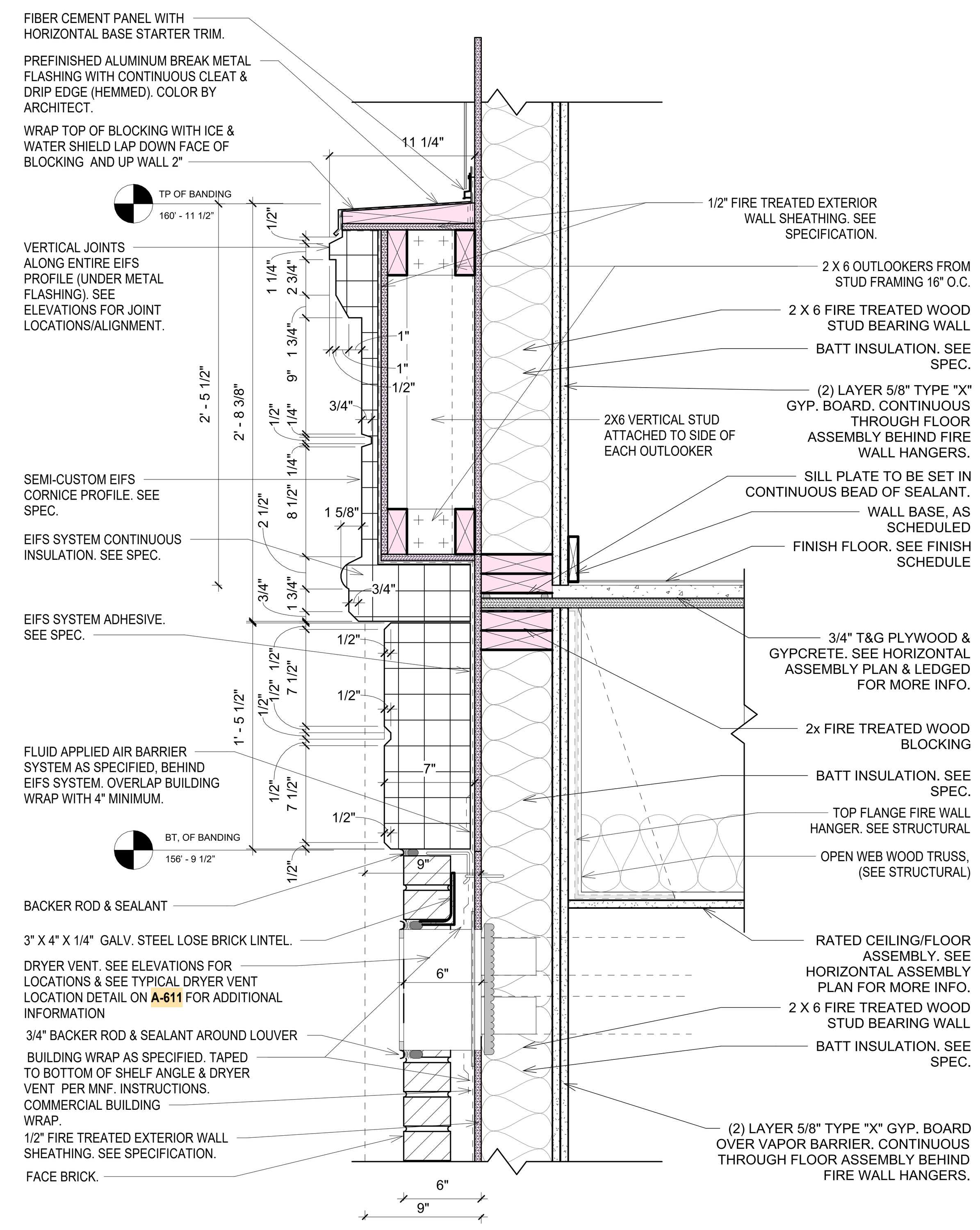
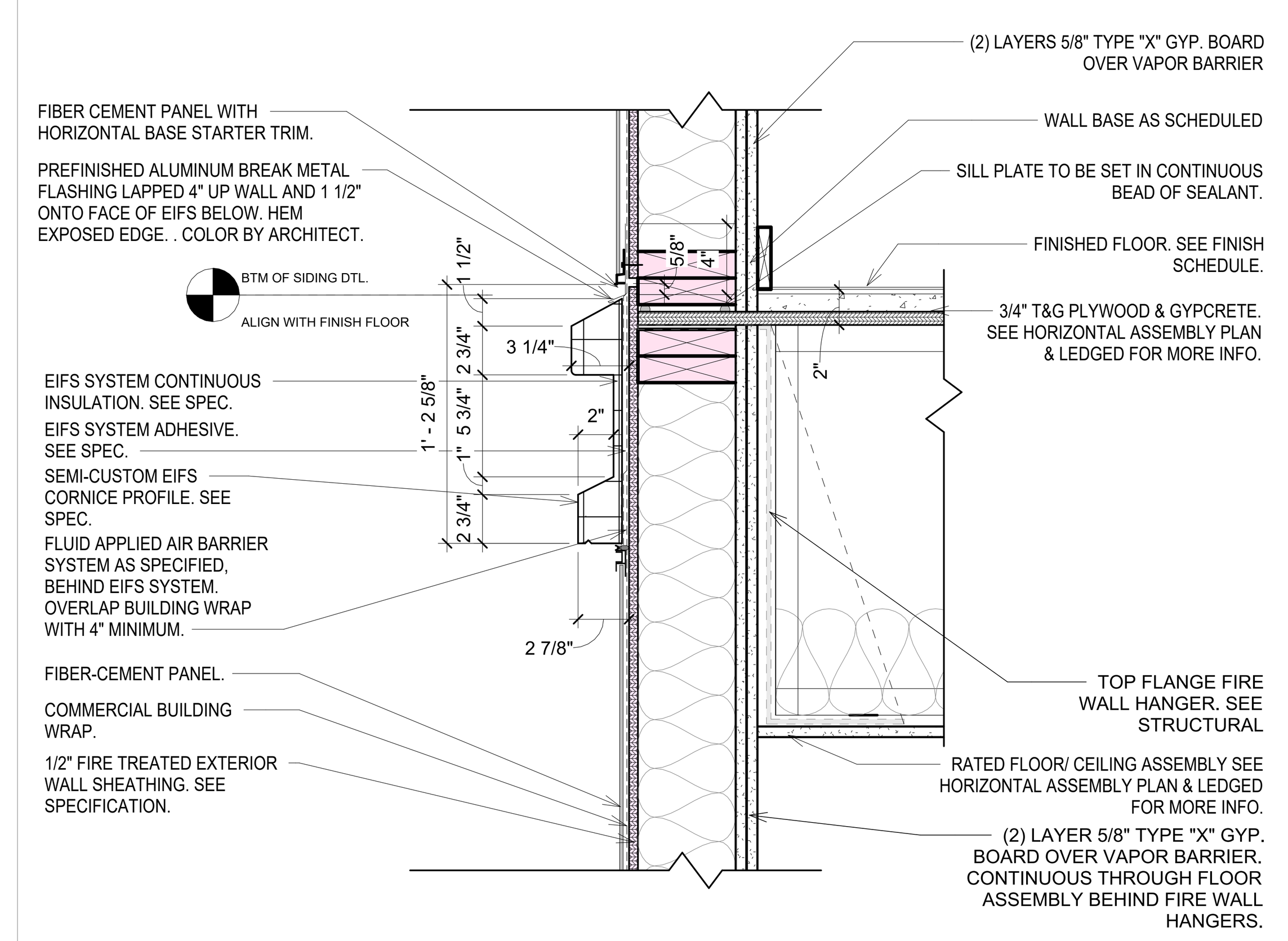


9 **PLATFORM FRAMING - 2X10 WALL**
1 1/2" = 1'-0"



7 **PLATFORM FRAMING @ EIFS BAND**
1 1/2" = 1'-0"



6 **PLATFORM FRAMING - EIFS BAND**
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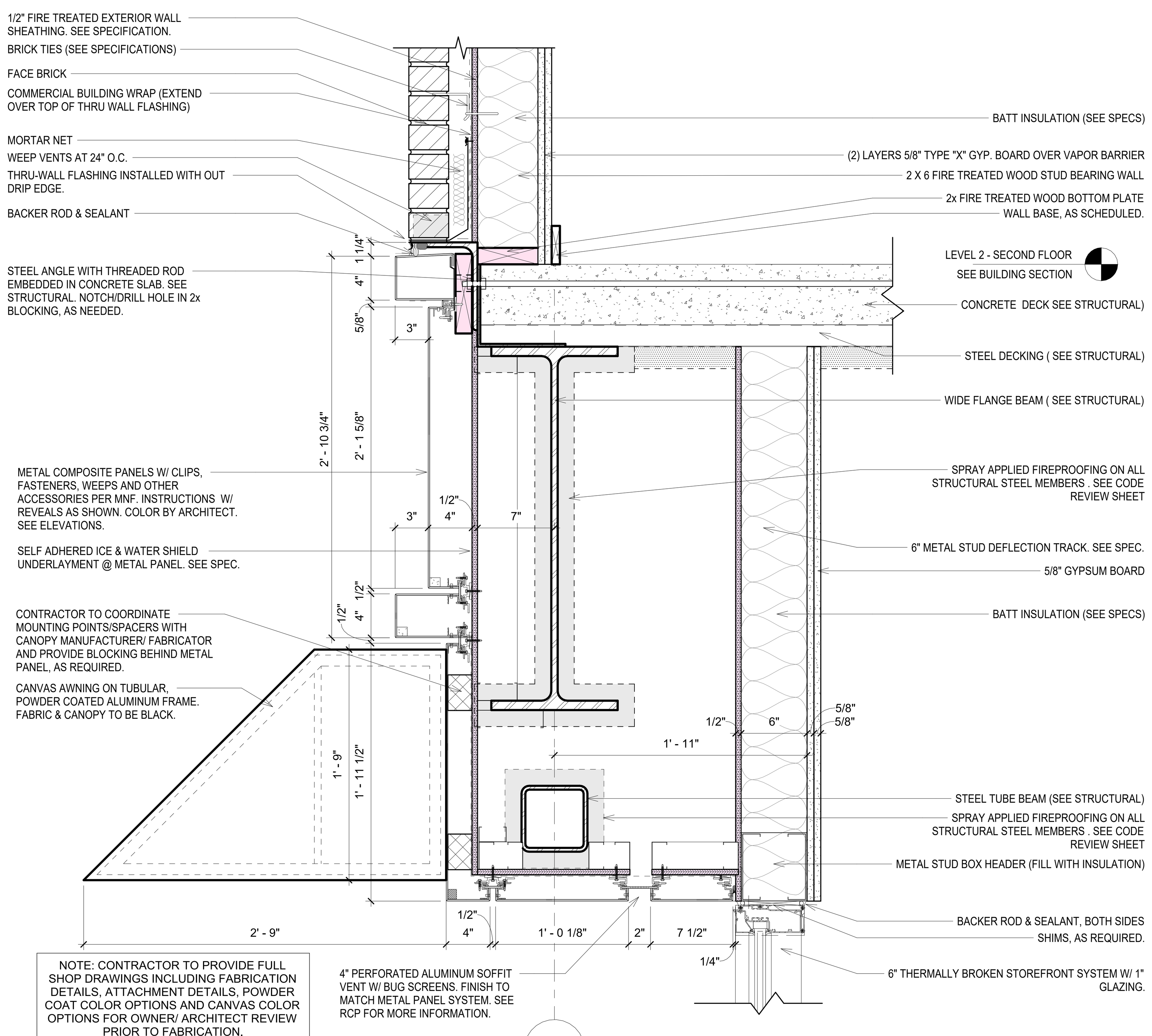
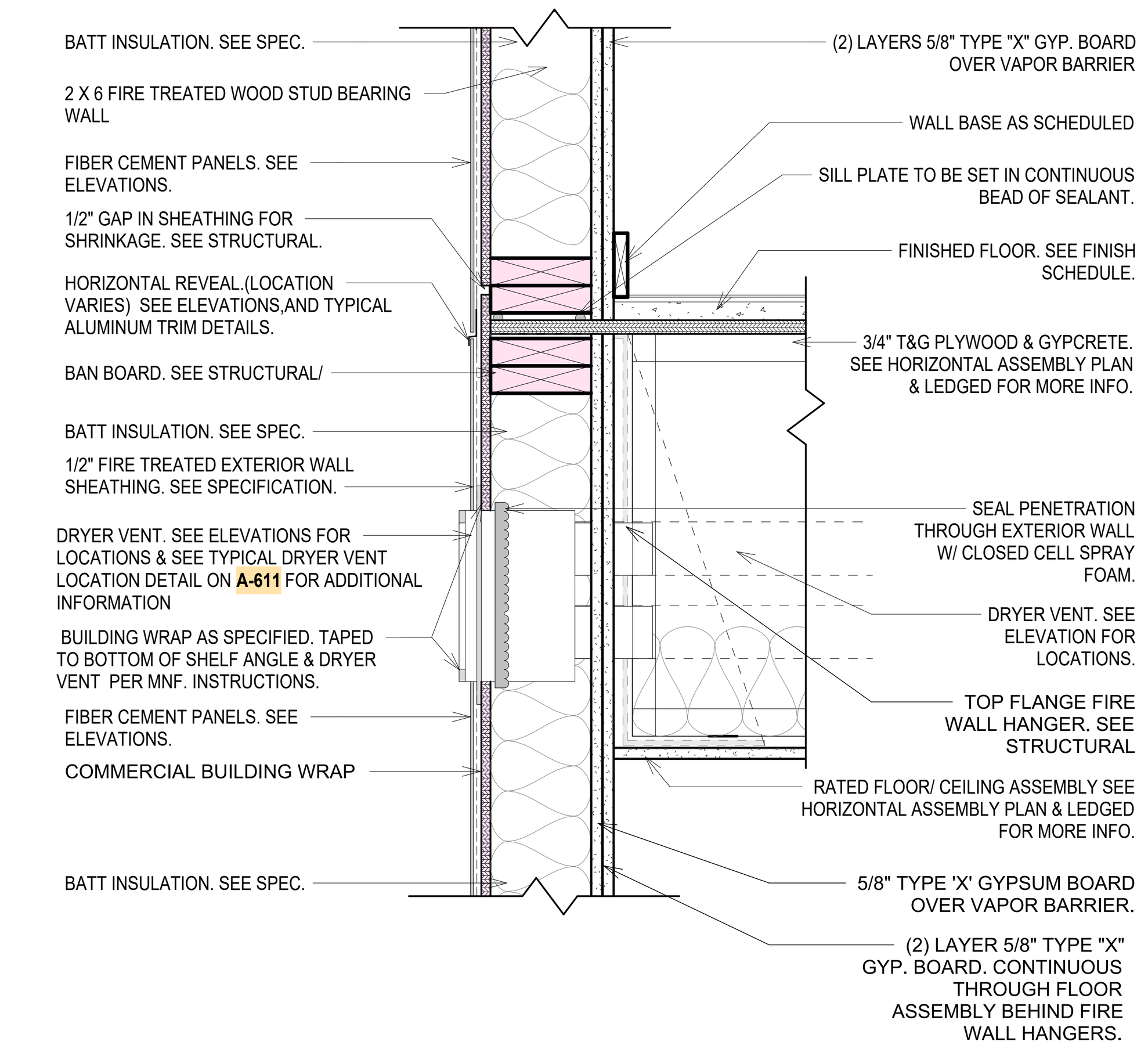
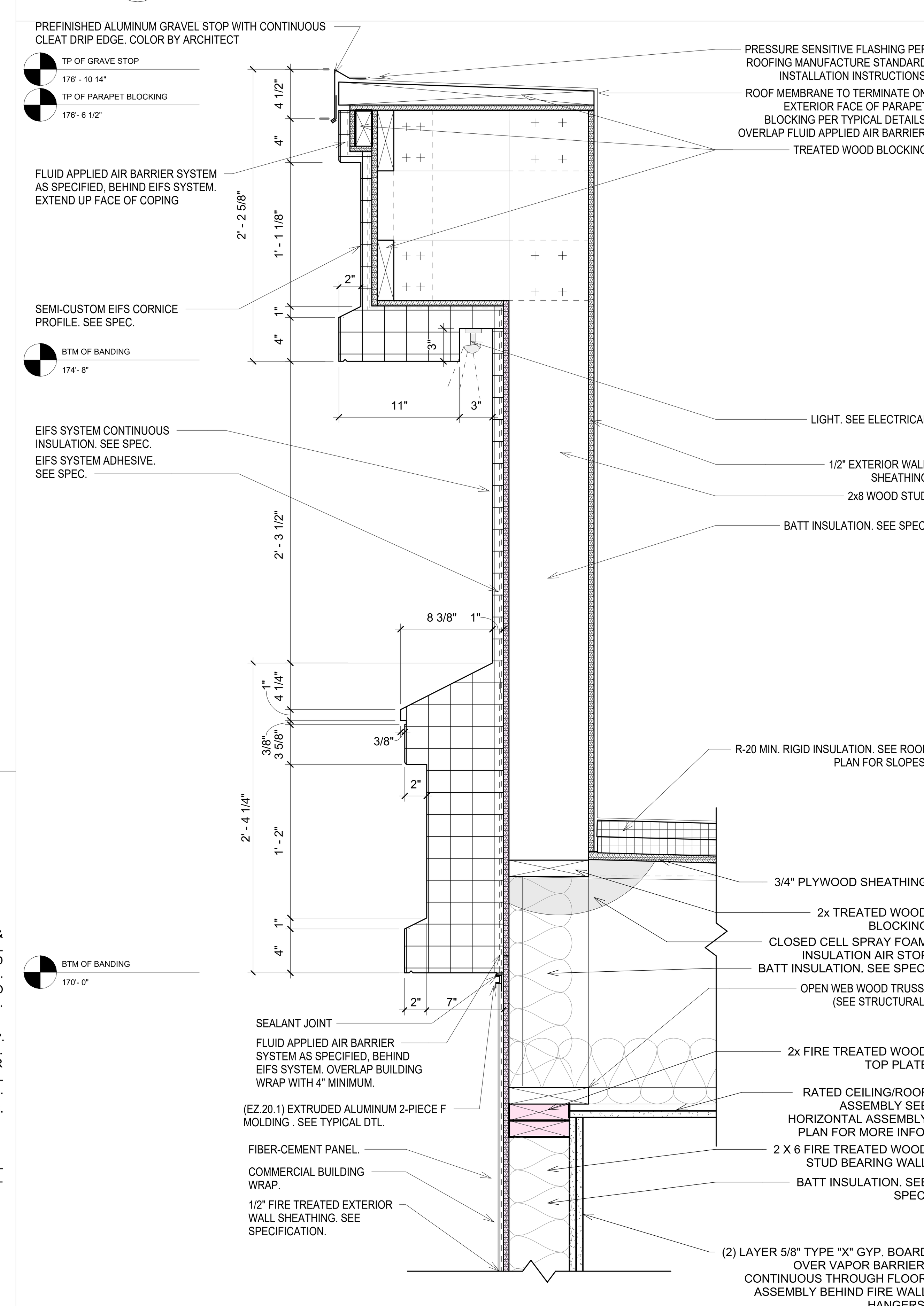
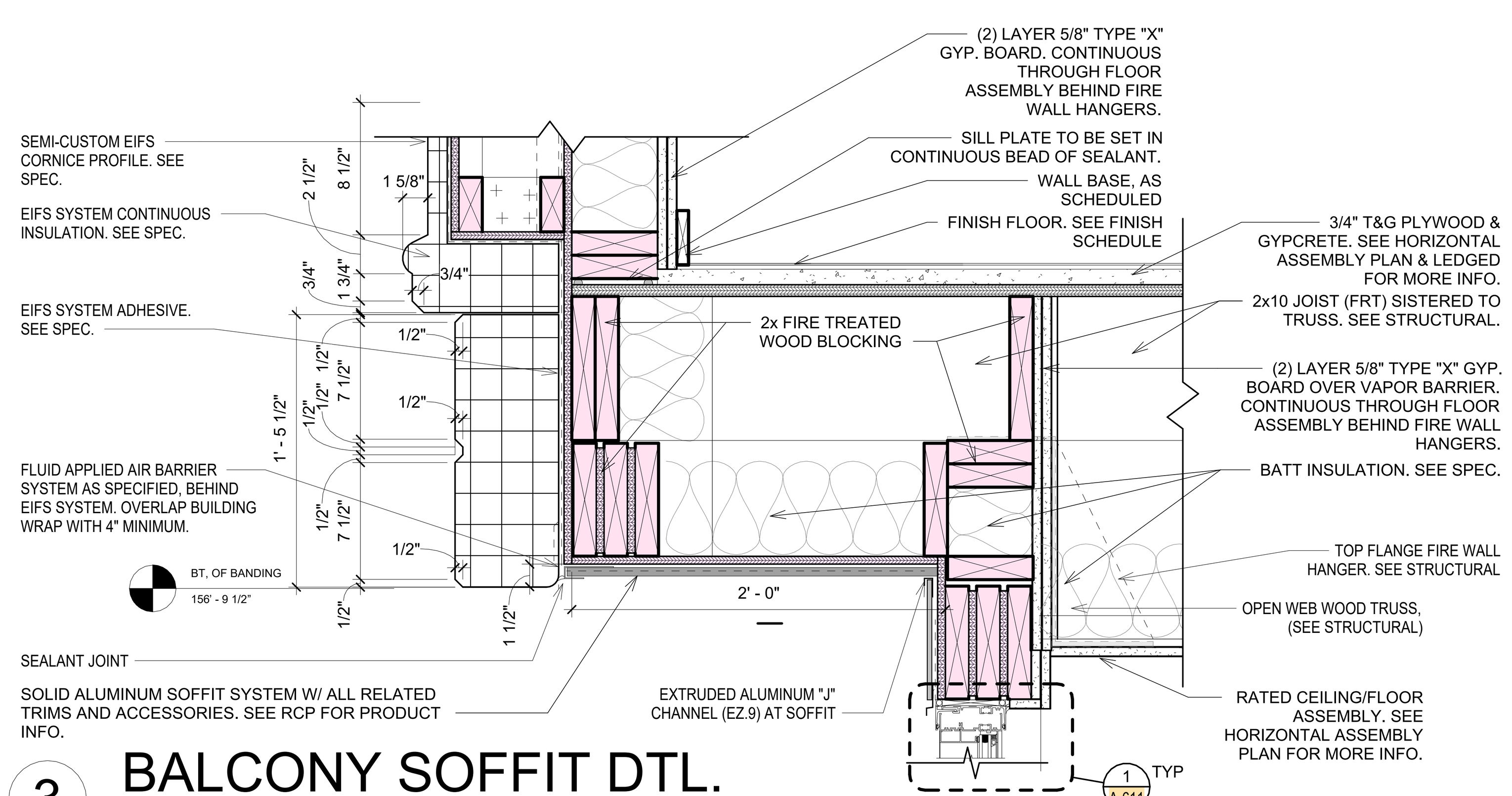


5 **CANOPY FRAMING DTL.**
1 1/2" = 1'-0"



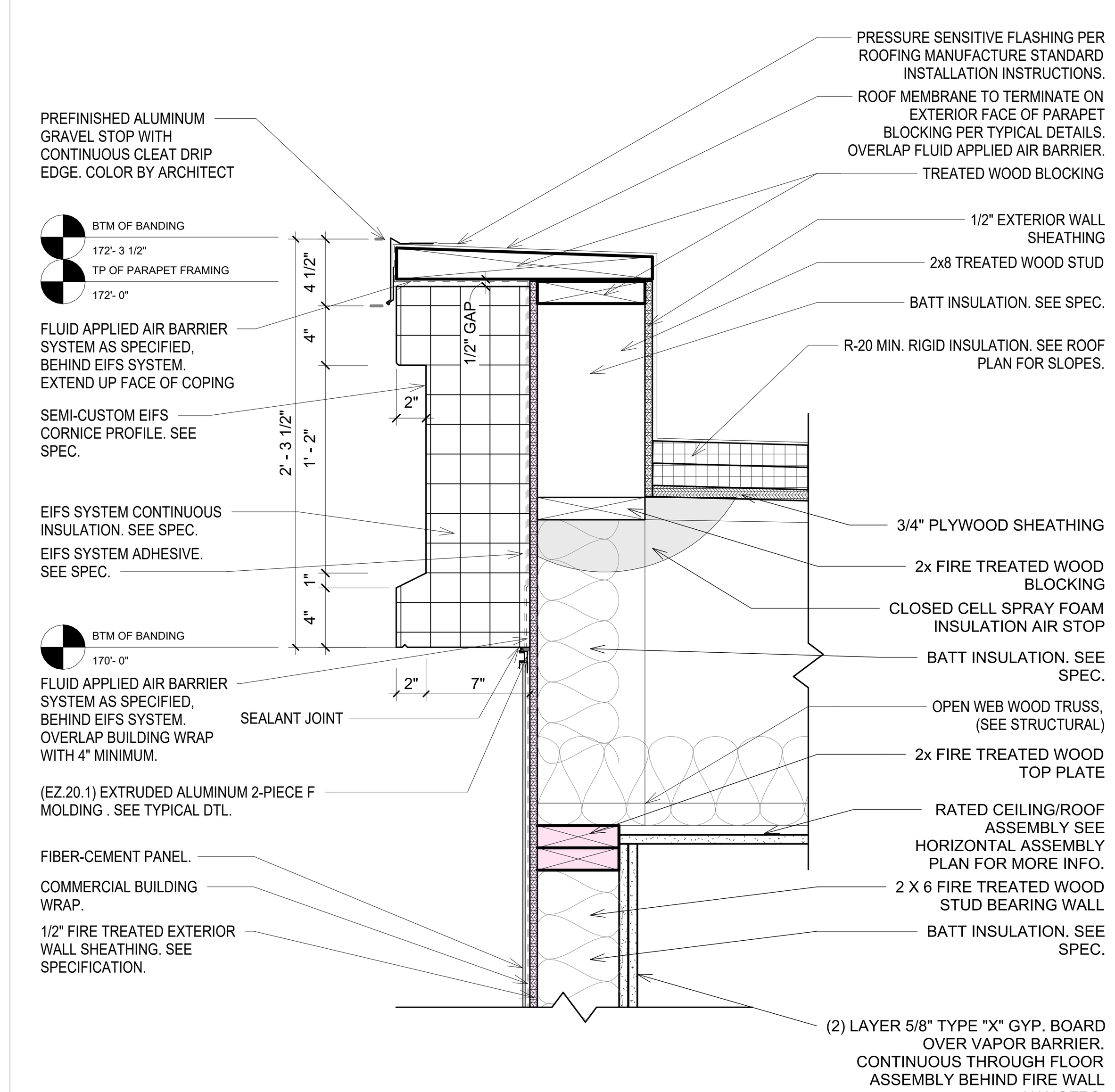
4 **PLATFORM FRAMING - SIDING**
1 1/2" = 1'-0"





3 **BALCONY SOFFIT DTL.**
1 1/2" = 1'-0"

2 **PARAPET DTL. - HIGH**
1 1/2" = 1'-0"



1 **PARAPET DTL.- LOW**
1 1/2" = 1'-0"

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Certification: 09.13.2024 BID SET

ZACHARY R. BENEDICT REGISTERED No. AR11200057 STATE OF INDIANA ARCHITECT

Consultant Logo:

Key Plan:

THE LANDING 3.0

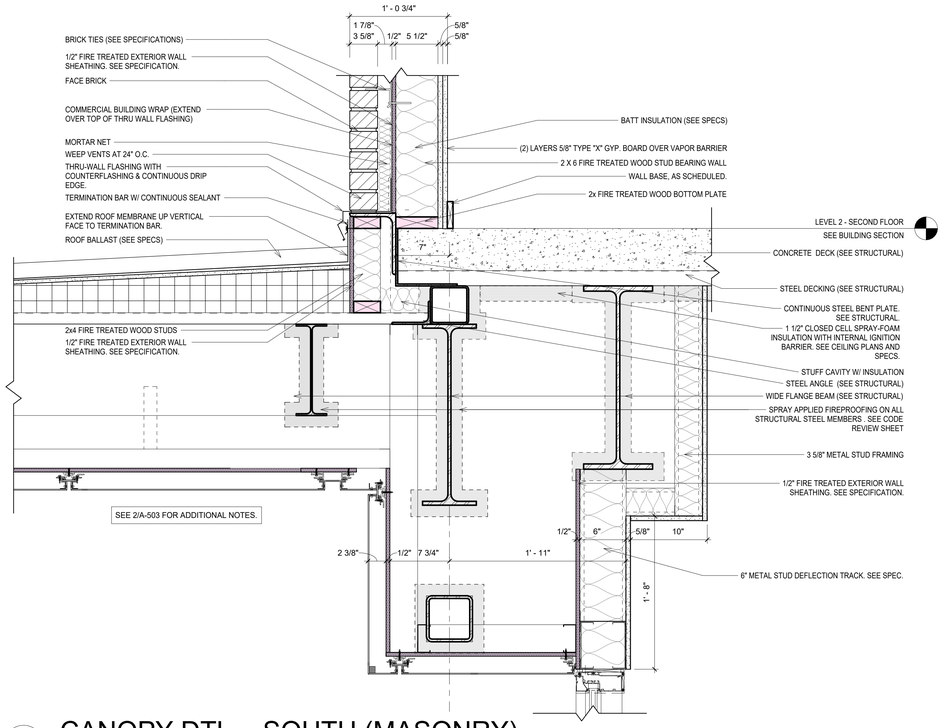
NEW CONSTRUCTION
555 S. HARRISON ST.
Fort Wayne, Indiana 46802

REVISION		
No.	Date	Revision

DRAWING CONTENTS:
EXTERIOR DETAILS

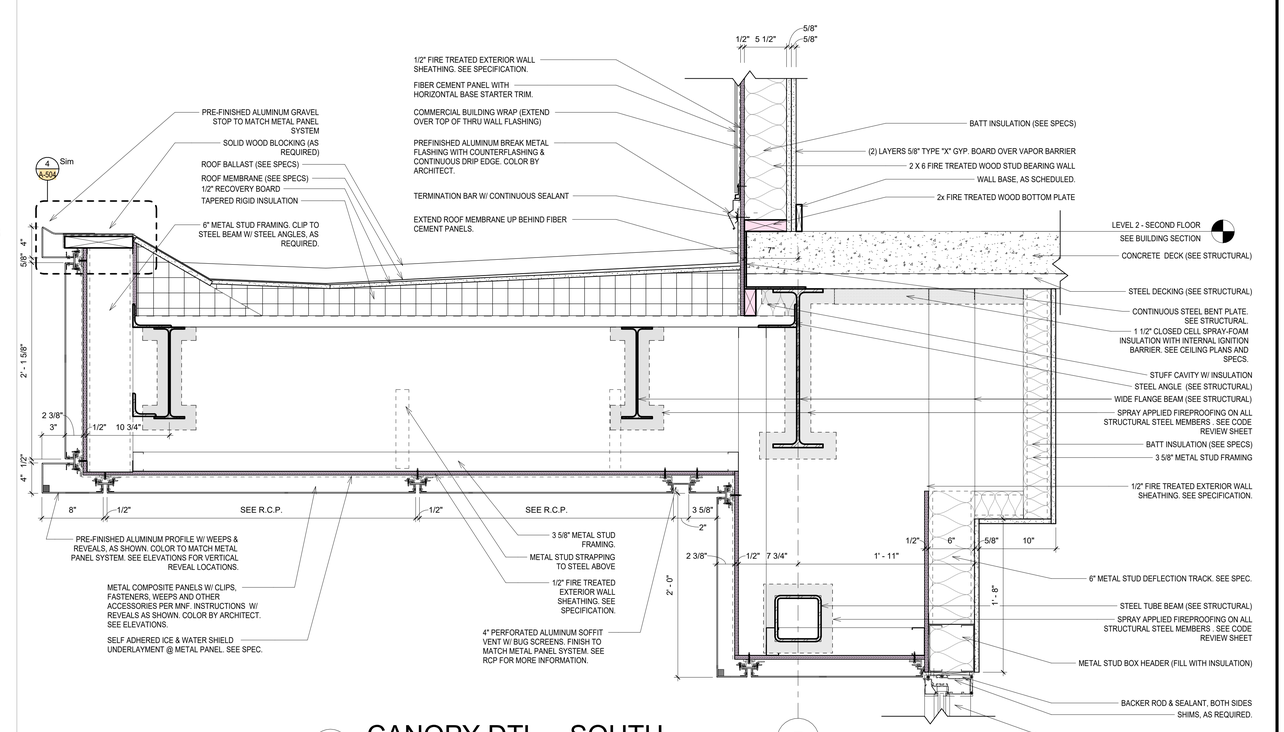
ISSUE DATE:	PROJECT NO.
09.13.2024	23029

DRAWING NO.
A-502



3 CANOPY DTL. - SOUTH (MASONRY)

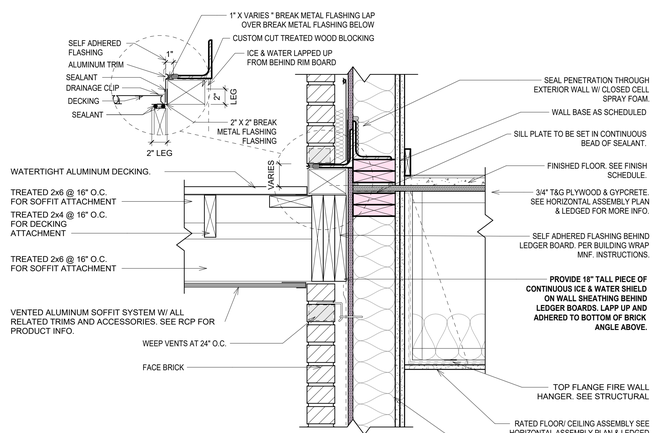
1 1/2" = 1'-0"



2 CANOPY DTL. - SOUTH

1 1/2" = 1'-0"

E



4 BALCONY EDGE DTL

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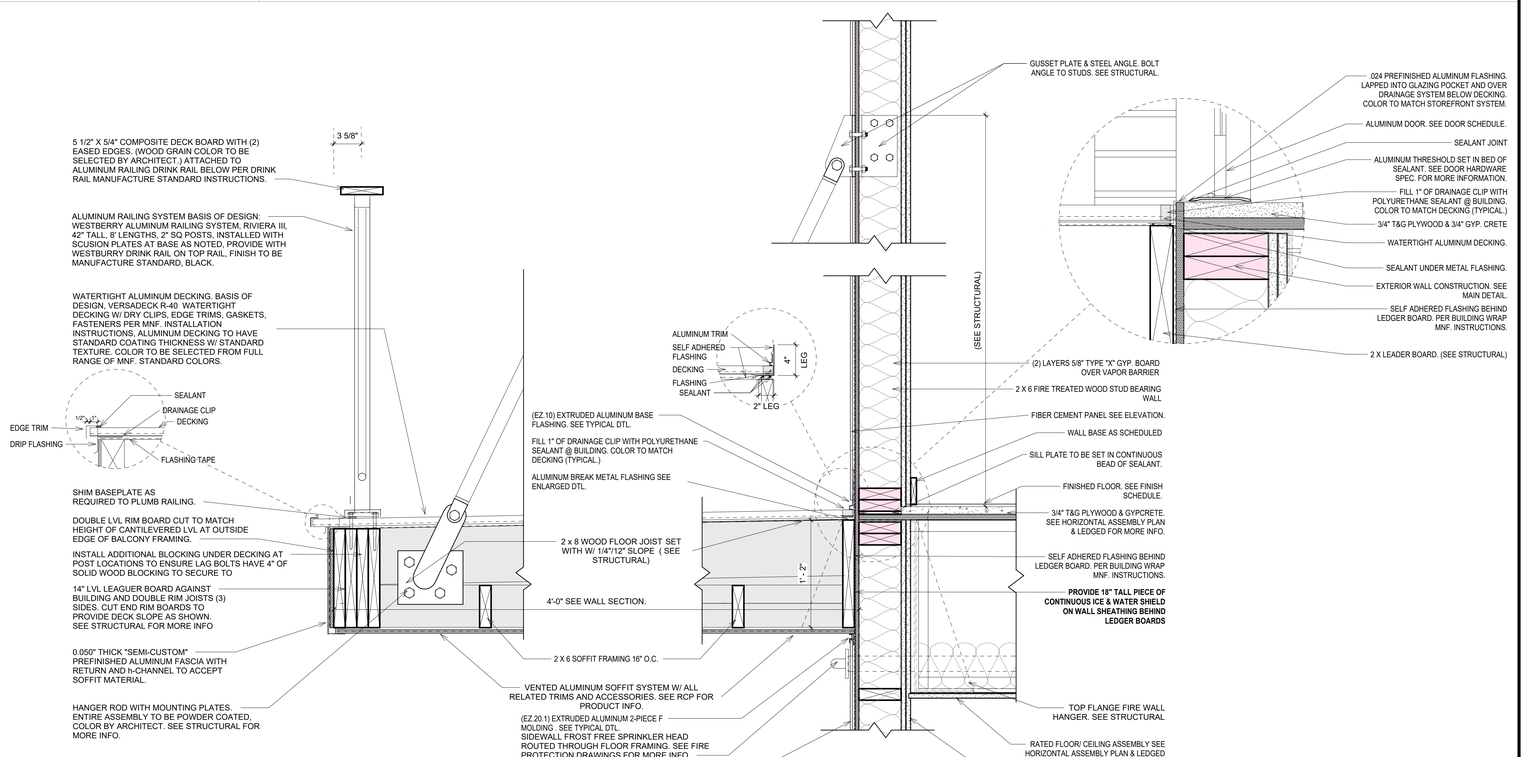

1 BALCONY DTL.

1 1/2" = 1'-0"

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Certification: 09.13.2024 BID SET

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Key Plan:

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NEW CONSTRUCTION
555 S. HARRISON ST.
Fort Wayne, Indiana 46802

REVISION		
No.	Date	Revision

DRAWING CONTENTS:
EXTERIOR DETAILS

ISSUE DATE: 09.13.2024
PROJECT NO. 23029

DRAWING NO.
A-503

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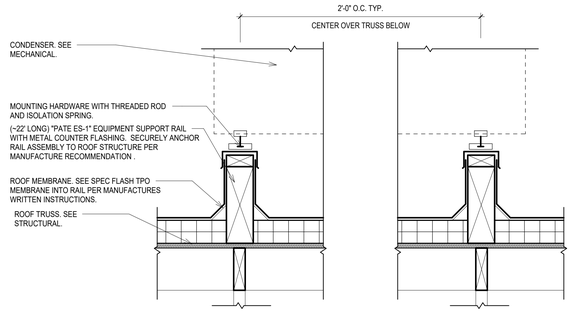
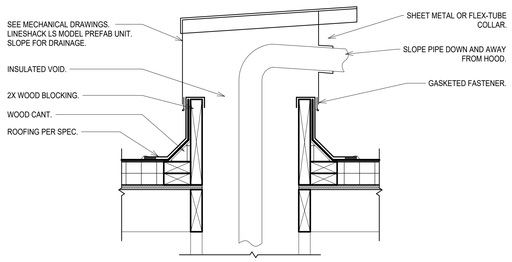


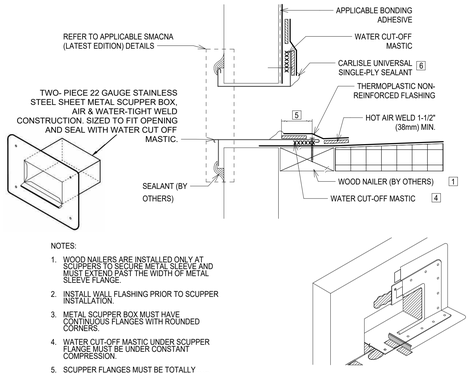
16 CONDENSER SUPPORT DETAIL

1 1/2" = 1'-0"



15 LINSET CURB DETAIL

1 1/2" = 1'-0"



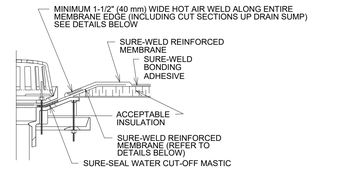
NOTES:

1. WOOD NAILERS ARE INSTALLED ONLY AT SCUPPERS TO SECURE METAL SLEEVE AND MUST EXTEND PAST THE WIDTH OF METAL SLEEVE FLANGE.
2. INSTALL WALL FLASHING PRIOR TO SCUPPER INSTALLATION.
3. METAL SCUPPER BOX MUST HAVE CONTINUOUS FLANGES WITH ROUNDED CORNERS.
4. WATER CUT-OFF MASTIC UNDER SCUPPER FLANGE MUST BE UNDER CONSTANT COMPRESSION.
5. SCUPPER FLANGES MUST BE TOTALLY COVERED BY NON-REINFORCED FLASHING WITH MINIMUM 2" (51mm) COVERAGE PAST NAIL HEAD.
6. UNIVERSAL SINGLE-PLY SEALANT IS REQUIRED AT FLASHING EDGES ON SCUPPER EDGE. WHEN USING TPO MEMBRANE, TPO PRIMER MUST BE USED TO PREPARE SURFACES PRIOR TO THE APPLICATION OF SEALANT.

NOTE: BASIS OF DESIGN IS "Carlisle SynTec Incorporated. – Sure-weld reinforced TPO Membrane"

11 ROOF DTL (TYP.)

1 1/2" = 1'-0"



Roof Drain Detail

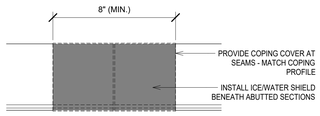
NOTES:

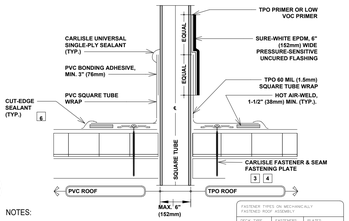
1. REMOVE ALL LEAD AND OTHER FLASHING.
2. ALL DRAIN BOLTS OR CLAMPS MUST BE IN PLACE TO PROVIDE COMPRESSION ON WATER CUT-OFF MASTIC.
3. CUT MEMBRANE SO IT EXTENDS A MINIMUM OF 1/2" (13MM) FROM ATTACHMENT POINTS OF THE CLAMPING RING.
4. APPROX. 1/8" (3MM) DIAMETER BEAD OF CUT-EDGE SEALANT IS REQUIRED ON CUT EDGES OF SURE-WELD REINFORCED MEMBRANE.

NOTE: BASIS OF DESIGN IS "Carlisle SynTec Incorporated. – Sure-weld reinforced TPO Membrane"

10 ROOF DTL (TYP.)

1 1/2" = 1'-0"





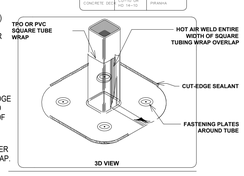
14 COPING SEAM DTL (TYP.)

3" = 1'-0"

NOTES:

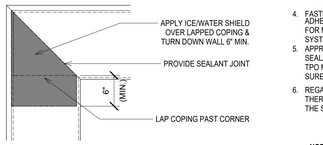
1. REMOVE ALL EXISTING LEAD AND FLASHING MATERIAL BEFORE INSTALLING PRE-FABRICATED SQUARE TUBE WRAP.
2. TEMPERATURE OF THE PIPE PENETRATION MUST NOT EXCEED 140°F (60°C) WHEN USING PVC AND 160°F (71°C) WHEN USING TPO FLASHING
3. INSTALL A MINIMUM OF 4 SEAM FASTENING PLATES FOR TUBE SIDE DIMENSIONS UP TO 6 " (152mm).
4. FASTENERS AND PLATES ARE NOT REQUIRED ON ADHERED SYSTEM. SEE TABLE FOR MF SYSTEM.
5. APPROXIMATELY 1/8" (3mm) DIAMETER BEAD OF CUT-EDGE SEALANT IS REQUIRED ON CUT EDGES OF REINFORCED TPO MEMBRANE AND RECOMMENDED ON CUT EDGES OF SURE-FLEX PVC MEMBRANE.
6. REGARDLESS OF THE FIELD MEMBRANE THICKNESS, THERMOPLASTIC "T-JOINT" COVERS ARE REQUIRED OVER THE SPLICE INTERSECTIONS OF THE SQUARE TUBE WRAP

FASTENER TYPES ON MECHANICALLY FASTENED ROOF ASSEMBLY		
DECK TYPE	FASTENERS	PLATES
STEEL & WOOD DECK	HP-1"	PIRANHA
	HP-XTRA	PIRANHA XTRA
CONCRETE DECK	1-1/2"-10 OR HD 18-10	PIRANHA



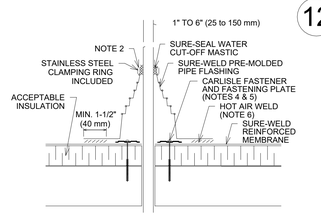
PRE-FABRICATED SQUARE TUBE WRAP

NOTE: BASIS OF DESIGN IS "Carlisle SynTec Incorporated. – Sure-weld reinforced TPO Membrane"



13 COPING DTL (TYP.)

1" = 1'-0"



Pre-Mold Pipe Flashing Detail

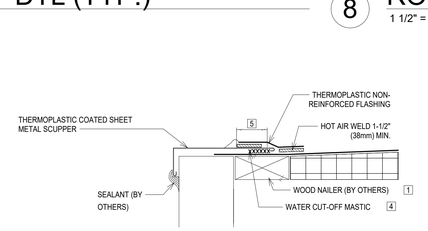
NOTES:

1. REMOVE ALL LEAD AND OTHER FLASHING.
2. TEMPERATURE OF PIPE MUST NOT EXCEED 120'F (49'C).
3. PIPE SEAL MUST HAVE INTACT RIB AT TOP EDGE, REGARDLESS OF PIPE DIAMETER.
4. INSTALL 3 FASTENERS AND PLATES AROUND PIPE EQUALLY SPACED. FASTENERS MAY ALSO BE POSITIONED MAXIMUM 12" (300MM) FROM PIPE. FASTENED 12" ON CENTER AND FLASHED WITH SURE-WELD REINFORCED MEMBRANE. (FASTENERS/PLATES ARE NOT REQUIRED ON ADHERED SYSTEMS UNLESS PIPE DIAMETER EXCEEDS 18" (500MM).)
5. IF PLATES CANNOT BE INSTALLED AS SHOWN THEY CAN BE POSITIONED OUTSIDE THE PIPE FLASHING FLANGE.
6. PIPE FLASHING DECK FLANGE MUST BE HOT AIR WELDED A MINIMUM OF 1-1/2" (40MM) BEYOND FASTENING PLATES.
7. INSTALL A SECTION OF SURE-WELD REINFORCED MEMBRANE OVER SPLICE INTERSECTIONS PRIOR TO INSTALLING PRE-MOLDED PIPE FLASHING.

NOTE: BASIS OF DESIGN IS "Carlisle SynTec Incorporated. – Sure-weld reinforced TPO Membrane"

12 ROOF DTL (TYP.)

3" = 1'-0"



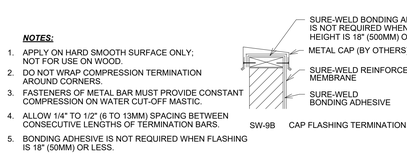
NOTES:

1. WOOD NAILERS ARE INSTALLED ONLY AT SCUPPERS TO SECURE METAL SLEEVE AND MUST EXTEND PAST THE WIDTH OF METAL SLEEVE FLANGE.
2. INSTALL WALL FLASHING PRIOR TO SCUPPER INSTALLATION.
3. METAL SCUPPER BOX MUST HAVE CONTINUOUS FLANGES WITH ROUNDED CORNERS.
4. WATER CUT-OFF MASTIC UNDER SCUPPER FLANGE MUST BE UNDER CONSTANT COMPRESSION.
5. SCUPPER FLANGES MUST BE TOTALLY COVERED BY NON-REINFORCED FLASHING WITH MINIMUM 2" (51mm) COVERAGE PAST NAIL HEAD.
6. UNIVERSAL SINGLE-PLY SEALANT IS REQUIRED AT FLASHING EDGES ON SCUPPER EDGE. WHEN USING TPO MEMBRANE, TPO PRIMER MUST BE USED TO PREPARE SURFACES PRIOR TO THE APPLICATION OF SEALANT.

NOTE: BASIS OF DESIGN IS "Carlisle SynTec Incorporated. – Sure-weld reinforced TPO Membrane"

8 ROOF DTL (TYP.)

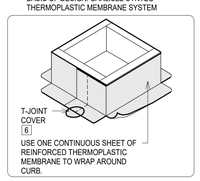
1 1/2" = 1'-0"



NOTES:

1. WHEN USING TPO MEMBRANE, BONDING ADHESIVE IS NOT REQUIRED WHEN THE FLASHING HEIGHT IS 12" (305mm) OR LESS AND THE MEMBRANE IS FASTENED "AS SHOWN" ON TOP OF THE CURB. WHEN CARLISLE TERMINATION BAR IS USED BENEATH THE COUNTER-FLASHING, BONDING ADHESIVE CAN BE ELIMINATED WHEN THE MEMBRANE HEIGHT IS 18" (457mm) OR LESS.
2. WHEN MECHANICAL FASTENERS ARE USED TO PENETRATE THE METAL COUNTER-FLASHING, USE EPDM WASHERS, APPLY WATER CUT-OFF MASTIC UNDER THE COUNTER-FLASHING OR CAULK THE FASTENER HEADS.
3. APPROXIMATELY 1/8" (3mm) DIAMETER BEAD OF CUT-EDGE SEALANT IS REQUIRED ON CUT EDGES OF REINFORCED TPO MEMBRANE AND RECOMMENDED ON CUT EDGES OF SURE-FLEX PVC MEMBRANE.
4. REFER TO CARLISLE SPECIFICATIONS FOR ACCEPTABLE CARLISLE FASTENERS AND PLATES.
5. MECHANICAL SECUREMENT MAY BE INSTALLED INTO THE VERTICAL SUBSTRATE.
6. WHEN USING 60 OR 80 MIL THICK CURB FLASHING, THE INTERSECTIONS BETWEEN SPLICES MUST OVERLAID WITH A THERMOPLASTIC "T-JOINT" COVER.

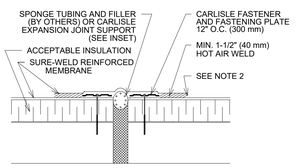
BASIS OF DESIGN: CARLISLE SYNTEC THERMOPLASTIC MEMBRANE SYSTEM



NOTE: BASIS OF DESIGN IS "Carlisle SynTec Incorporated. – Sure-weld reinforced TPO Membrane"

7 ROOF DTL (TYP.)

1 1/2" = 1'-0"



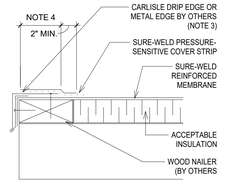
EXPANSION JOINT FLASHING DETAIL

NOTES:

1. POSITION FASTENING PLATES 1/2" (13MM) MINIMUM TO 1" (25MM) MAXIMUM FROM EDGE OF DECK MEMBRANE.
2. APPROXIMATELY 1/8" (3MM) DIAMETER READ OF CUT-EDGE SEALANT IS REQUIRED ON CUT EDGES OF SURE-WELD REINFORCEMENT MEMBRANE.
3. REFER TO ATTACHMENT I, MEMBRANE FASTENER CRITERIA FOR PROPER FASTENERS AND PLATES.

NOTE: BASIS OF DESIGN IS "Carlisle SynTec Incorporated. – Sure-weld reinforced TPO Membrane"

NOTE: HEAT COVER STRIP AT SPLICE INTERSECTIONS PRIOR TO ROLLING TO CONFORM TO STEP-OFFS



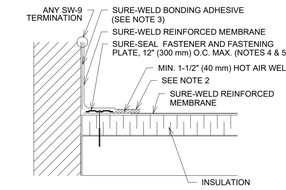
METAL EDGE FLASHING DETAIL

NOTES:

1. CLEAN THE EXISTING MEMBRANE (AND METAL IF APPLICABLE) WITH WEATHER MEMBRANE CLEANER. PRIME THE MEMBRANE USING HP-250 PRIMER. ONCE THE PRIMER IS PROPERLY DRIED, THE PRESSURE-SENSITIVE COVER STRIP IS APPLIED AND ROLLED USING A 2" WIDE ROLLER.
2. WOOD NAILER MUST EXTEND PAST TOTAL WIDTH OF METAL FASCIA DECK FLANGE.
3. FASTENERS AND FASTENER PATTERN AS RECOMMENDED BY METAL EDGE MANUFACTURER.
4. DECK FLANGE MUST BE TOTALLY COVERED BY PRESSURE-SENSITIVE COVER STRIP WITH MINIMUM 2" (50MM) COVERAGE PAST NAIL HEADS.

6 ROOF DTL (TYP.)

1 1/2" = 1'-0"



Parapet Flashing Detail

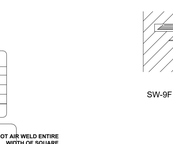
NOTES:

1. POSITION FASTENING PLATES 1/2" (13MM) TO 1" (25MM) FROM EDGE OF DECK MEMBRANE.
2. APPROXIMATLEY 1/8" (3MM) DIAMETER BEAD OF CUT-EDGE SEALANT IS REQUIRED ON CUT EDGES OF SURE-WELD REINFORCED MEMBRANE.
3. WHEN COUNTERFLASHING IS USED FOR TERMINATION, BONDING ADHESIVE IS NOT REQUIRED WHEN FLASHING HEIGHT IS 12" (300MM) OR LESS. SHEN COPING OR A TERMINATION BAR IS USED, ADHESIVE MAY BE ELIMINATED WHEN FLASHING HEIGHT IS 18" (500MM) OR LESS.
4. HP-X FASTENERS AND PIRANHA PLATES (OR HP-XTRA FASTERERS AND PIRANHA XTRA PLATES) ARE REQUIRED OVER STEEL AND WOOD DECKS. REFER TO "ATTACHMENT I, MEMBRANE FASTENING CRITERIA" FOR PROPER FASTENERS AND PLATES.
5. FASTENING PLATES CAN BE INSTALLED VERTICALLY.

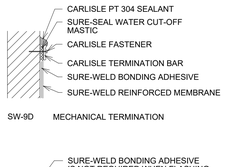
NOTE: BASIS OF DESIGN IS "Carlisle SynTec Incorporated. – Sure-weld reinforced TPO Membrane"

9 ROOF DTL (TYP.)

1 1/2" = 1'-0"



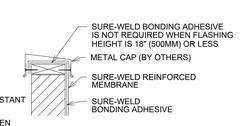
SW-9F MECHANICAL TERMINATION



SW-9D MECHANICAL TERMINATION

NOTES:

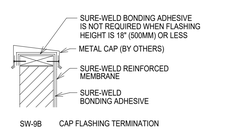
1. APPLY ON HARD SMOOTH SURFACE ONLY; NOT FOR USE ON WOOD.
2. DO NOT WRAP COMPRESSION TERMINATION AROUND CORNERS.
3. FASTENERS OF METAL BAR MUST PROVIDE CONSTANT COMPRESSION ON WATER CUT-OFF MASTIC.
4. ALLOW 1/4" TO 1/2" (6 TO 13MM) SPACING BETWEEN CONSECUTIVE LENGTHS OF TERMINATION BARS.
5. BONDING ADHESIVE IS NOT REQUIRED WHEN FLASHING IS 18" (50MM) OR LESS.



SW-9B CAP FLASHING TERMINATION

Parapet Flashing Detail

NOTE: BASIS OF DESIGN IS "Carlisle SynTec Incorporated. – Sure-weld reinforced TPO Membrane"



SW-9B CAP FLASHING TERMINATION

NOTES:

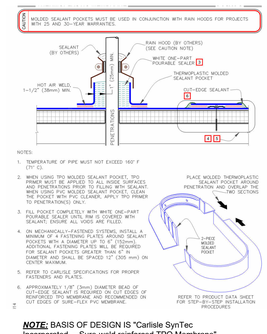
1. APPLY ON HARD SMOOTH SURFACE ONLY; NOT FOR USE ON WOOD.
2. DO NOT WRAP COMPRESSION TERMINATION AROUND CORNERS.
3. FASTENERS OF METAL BAR MUST PROVIDE CONSTANT COMPRESSION ON WATER CUT-OFF MASTIC.
4. ALLOW 1/4" TO 1/2" (6 TO 13MM) SPACING BETWEEN CONSECUTIVE LENGTHS OF TERMINATION BARS.
5. BONDING ADHESIVE IS NOT REQUIRED WHEN FLASHING IS 18" (50MM) OR LESS.

Parapet Flashing Detail

NOTE: BASIS OF DESIGN IS "Carlisle SynTec Incorporated. – Sure-weld reinforced TPO Membrane"

1 ROOF DTL (TYP.)

1 1/2" = 1'-0"



NOTE: BASIS OF DESIGN IS "Carlisle SynTec Incorporated. – Sure-weld reinforced TPO Membrane"

2 ROOF DTL (TYP.)

3" = 1'-0"

3 ROOF DTL (TYP.)

1 1/2" = 1'-0"

4 ROOF DTL (TYP.)

1 1/2" = 1'-0"

5 ROOF DTL (TYP.)

1 1/2" = 1'-0"

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Key Plan:

THE LANDING 3.0

NEW CONSTRUCTION
555 S. HARRISON ST.
Fort Wayne, Indiana 46802

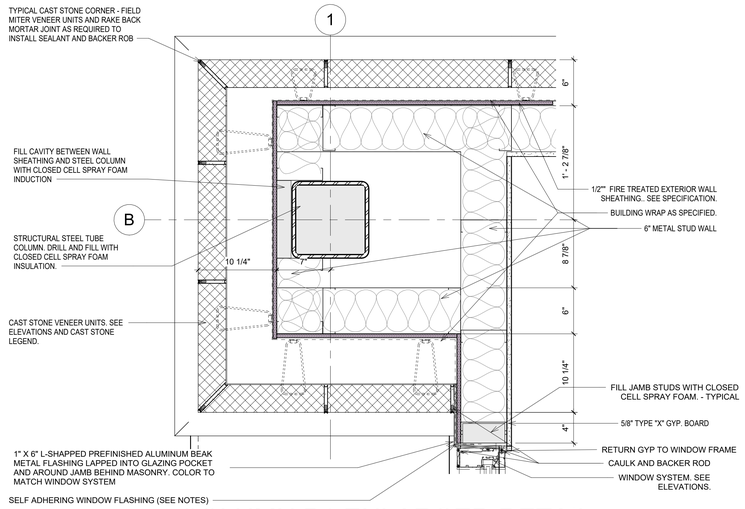
REVISION		
No.	Date	Revision

DRAWING CONTENTS:
EXTERIOR DETAILS (ROOFING)

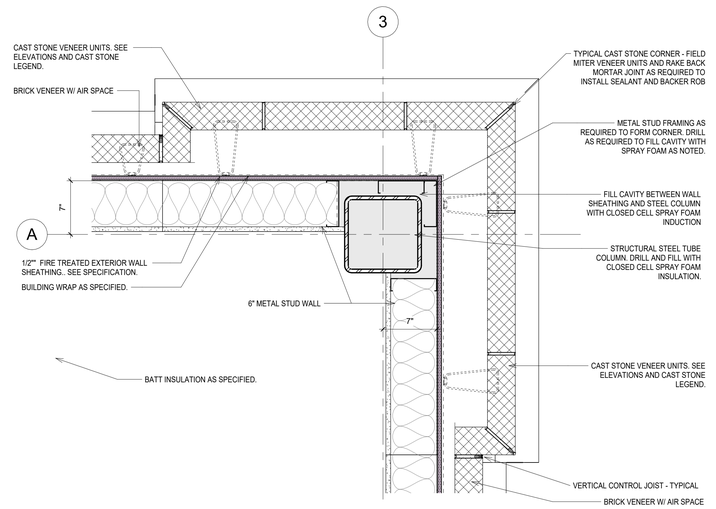
ISSUE DATE:	PROJECT NO.
09.13.2024	23029

DRAWING NO.
A-504

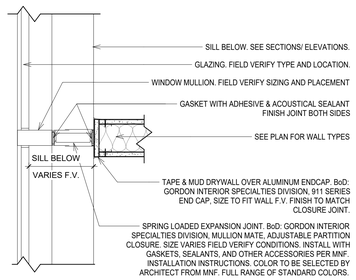
Plot Time/Date: 9/17/2024, 2:50:54 PM
Drawing Name: template.rvt



6 COLUMN B1 ENLARGED DETAIL
1 1/2" = 1'-0"

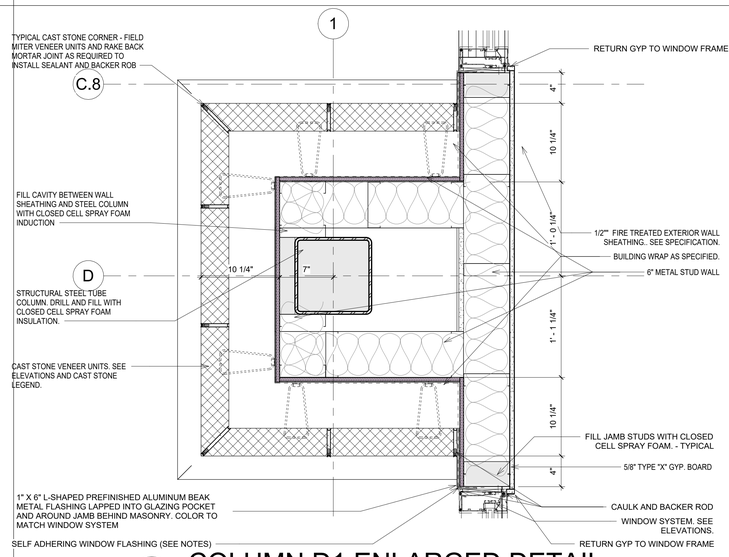


3 COLUMN A3 ENLARGED PLAN
1 1/2" = 1'-0"

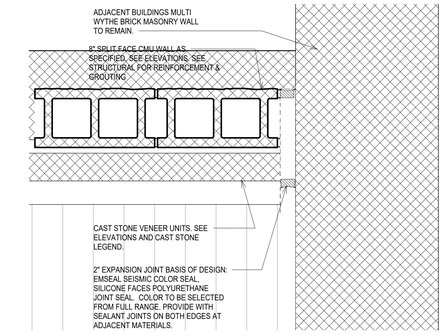


WALL ABUTTING MULLION

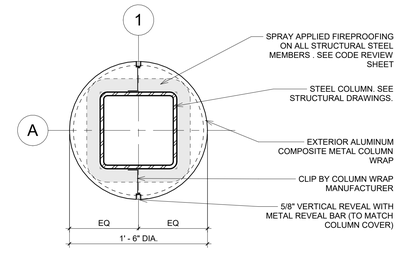
8 STOREFRONT MULLION TO PARTITION DTL.
1 1/2" = 1'-0"



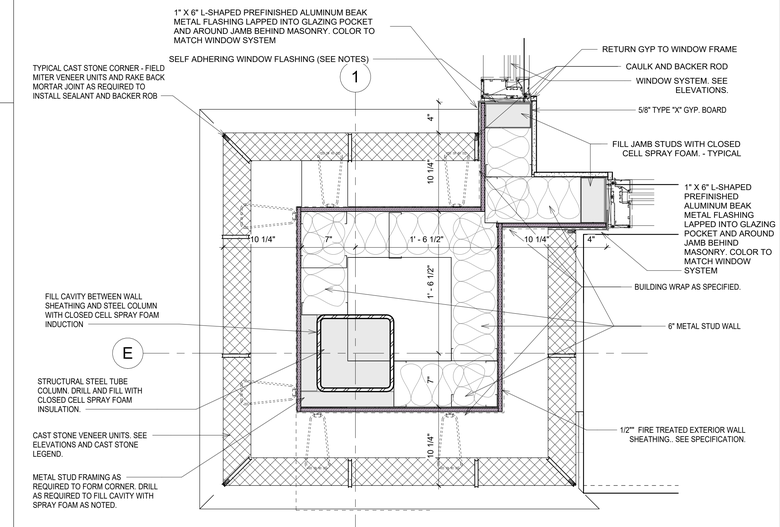
5 COLUMN D1 ENLARGED DETAIL
1 1/2" = 1'-0"



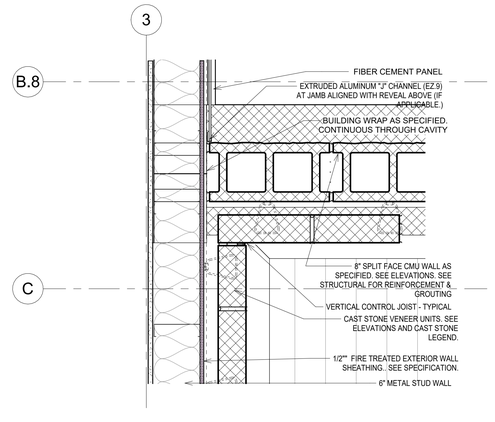
2 WALL CONNECTION ENLARGED DETAIL
1 1/2" = 1'-0"



7 COLUMN DETAIL
1 1/2" = 1'-0"



4 COLUMN E1 ENLARGED DETAIL
1 1/2" = 1'-0"



1 CORNER ENLARGED DETAIL
1 1/2" = 1'-0"

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NEW CONSTRUCTION
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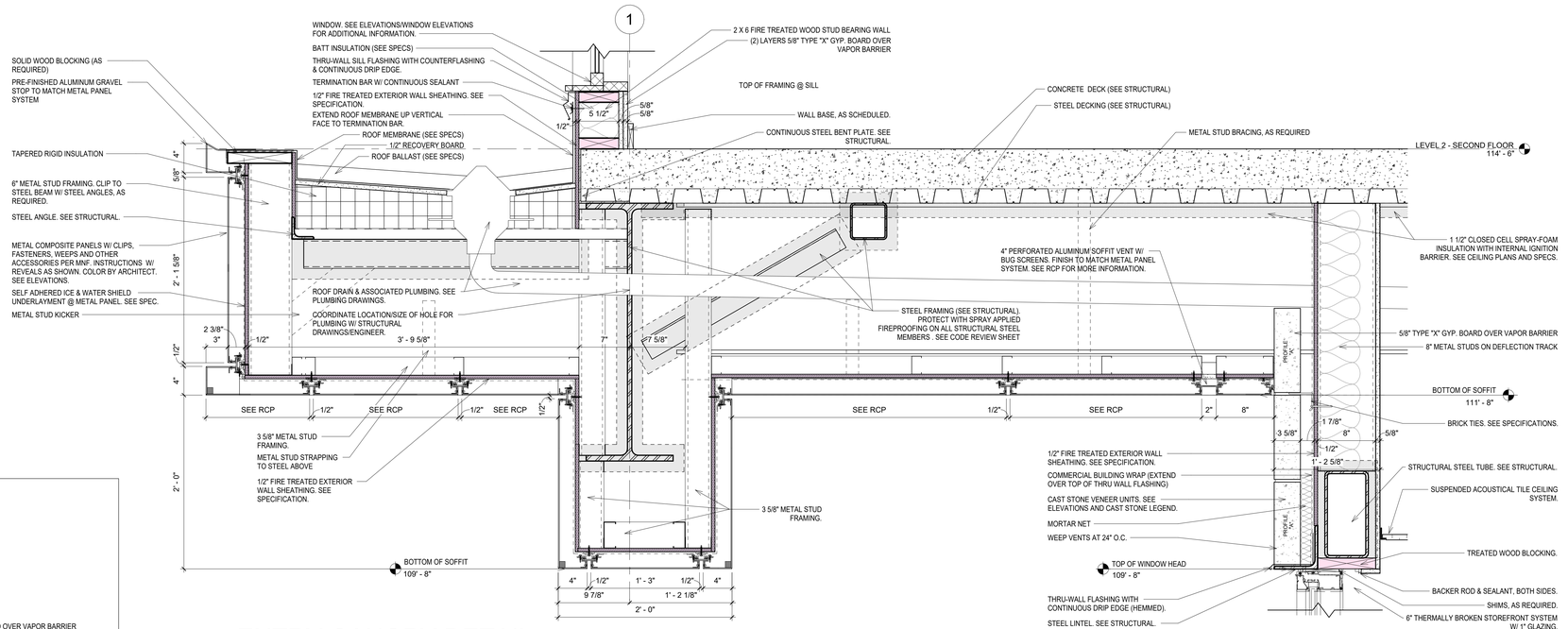
REVISION		
No.	Date	Revision

DRAWING CONTENTS:
ENLARGED DETAILS

ISSUE DATE: 09.13.2024
PROJECT NO. 23029

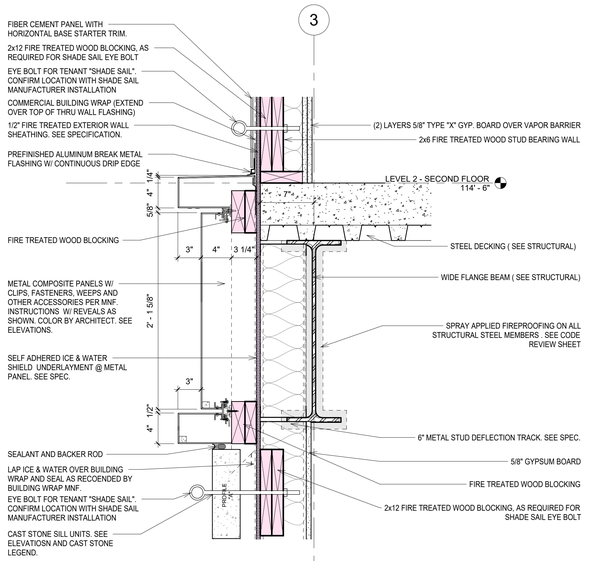
DRAWING NO.
A-505

Plot Time/Date: 9/13/2024, 2:50:56 PM
Drawing Name: Template.rte



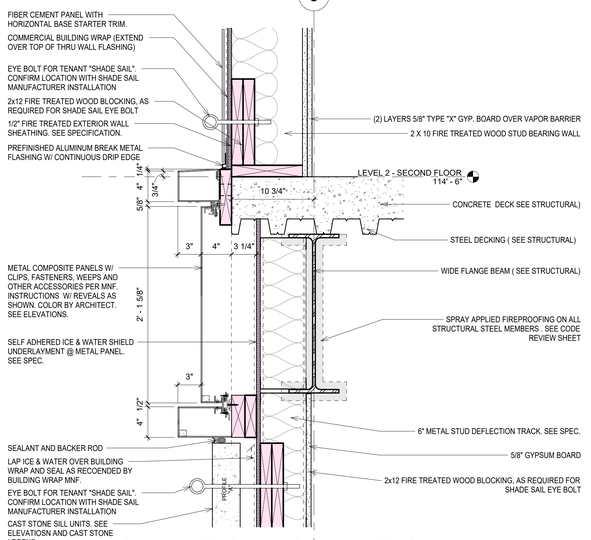
2 ENTRY CANOPY DETAIL

1 1/2" = 1'-0"



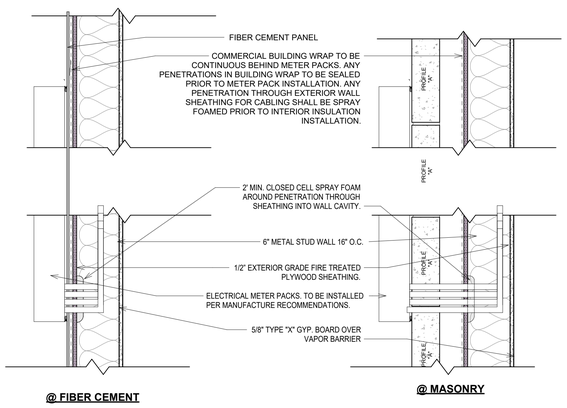
5 PLATFORM FRAMING DTL.

1 1/2" = 1'-0"



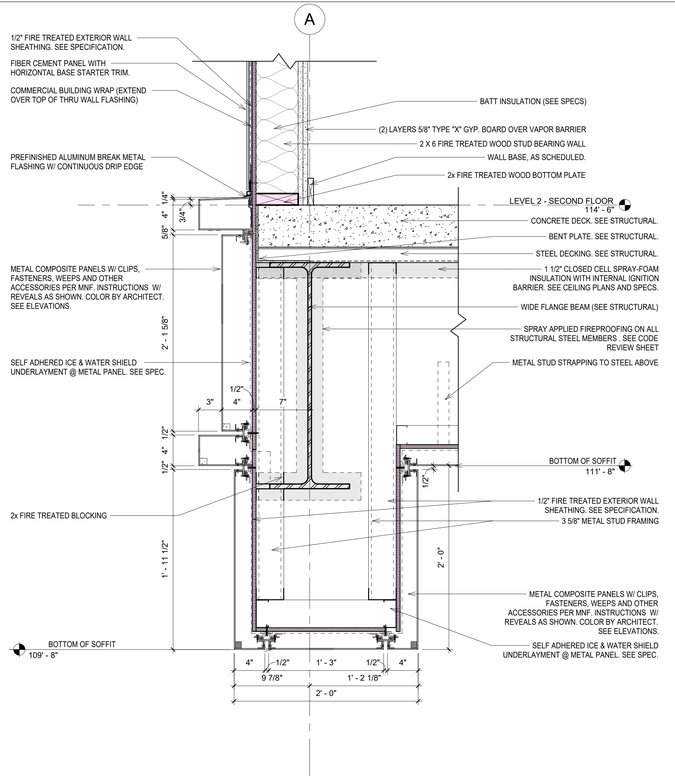
4 PLATFORM FRAMING DTL.

1 1/2" = 1'-0"



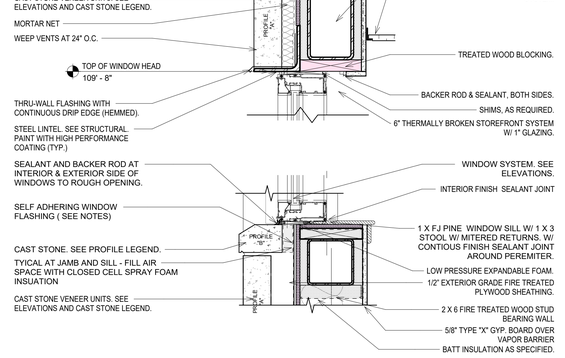
3 ELECTRICAL METER MOUNTING DTL.

1 1/2" = 1'-0"



1 CANOPY DETAIL

1 1/2" = 1'-0"



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REVISION		
No.	Date	Revision

DRAWING CONTENTS:
ENLARGED DETAILS

ISSUE DATE: 09.13.2024
PROJECT NO. 23029

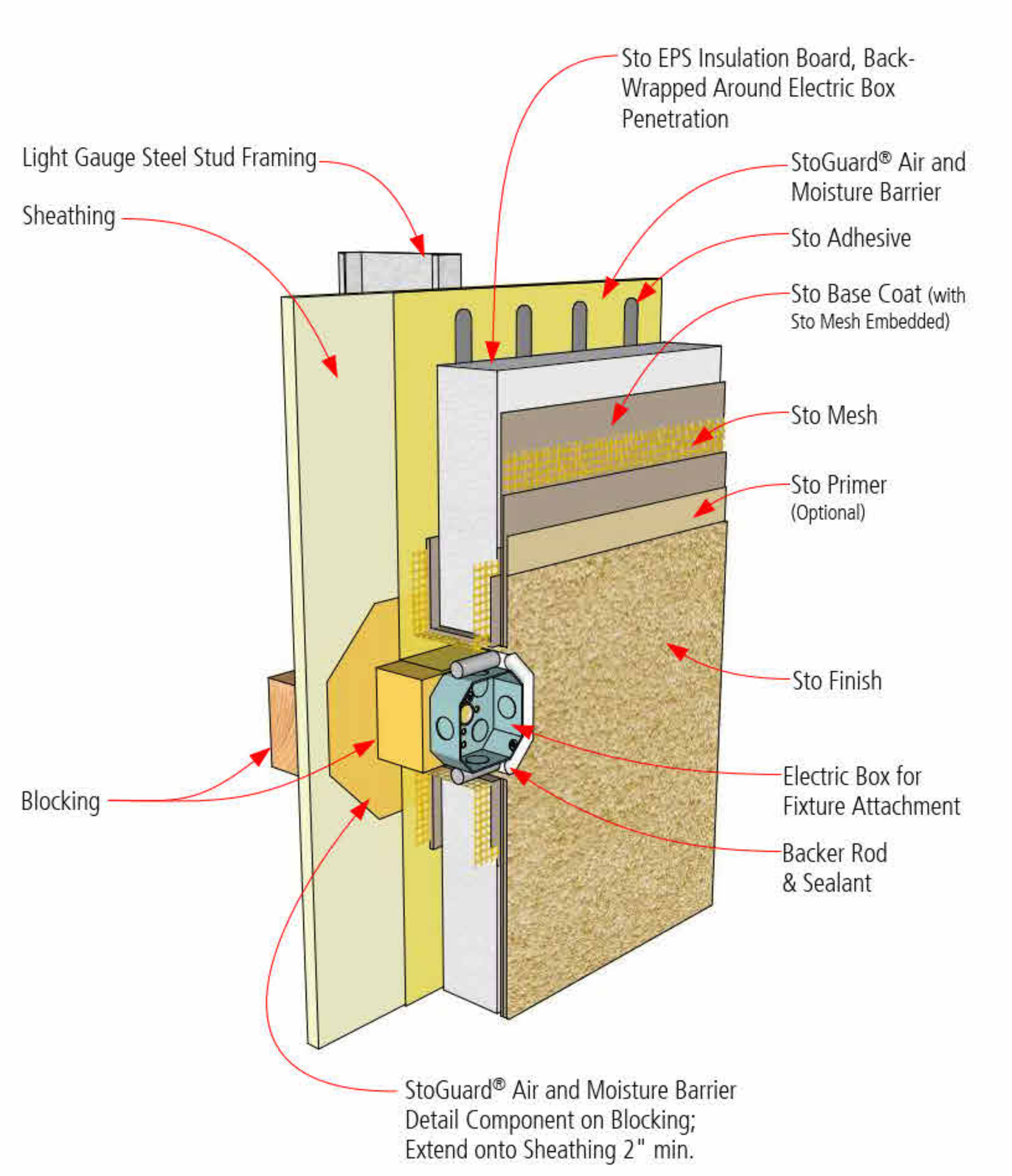
DRAWING NO.
A-506

Plot Time/Date: 9/13/2024 2:50:58 PM
Drawing Name: Template.rte

NOTE: DETAILS SHOWN BELOW ARE MANUFACTURER STANDARD INSTALLATION DETAILS SHOWN FOR REFERENCE ONLY. REFER TO PROJECT SPECIFIC WALL SECTIONS AND DETAILS FOR MORE INFO.

StoTherm® ci
Fixture Attachment

Detail No.: 52s.73
Date: December 2018



Notes:

1. Attach fixture to blocking or solid substrate. Where attached to blocking seal the blocking with Sto Detail Component.

- Refer to StoTherm ci System Bulletins and Specifications, Sto Product Bulletins, Tech Hotlines, and Sto Installation and Maintenance Guides for complete information.

- Refer to applicable ICC or CCMC Evaluation Reports for building code compliance information.

- Components not identified as Sto are furnished by other manufacturers and are not necessarily installed by trades who install the Sto products. Refer to project specific contract documents.

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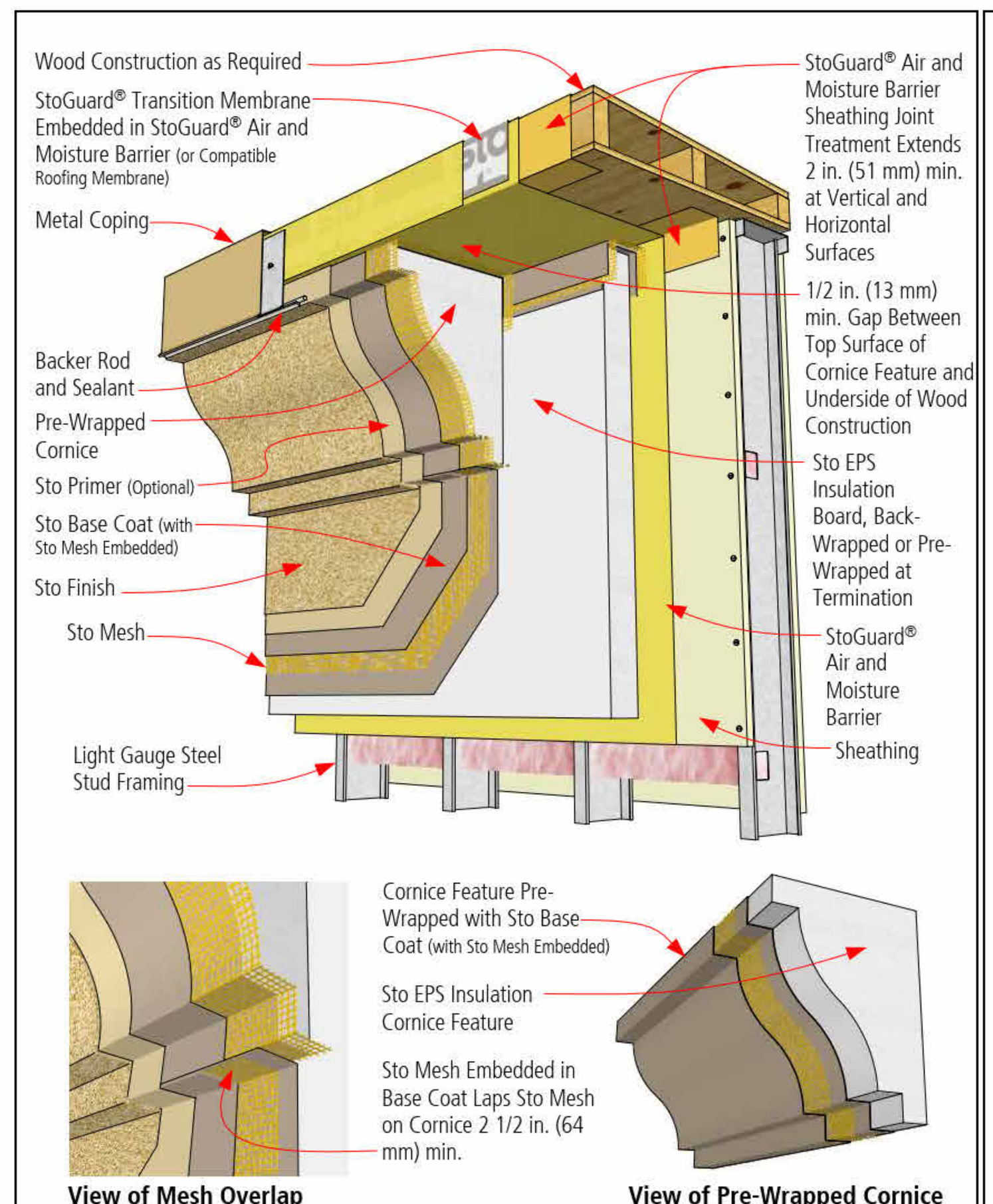
StoTherm® ci
Parapet with Cornice Feature

Detail No.: 52s.61
Date: December 2018



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Notes:

1. Cornice feature limited to 12" (30.5 cm) maximum thickness for noncombustible type construction. Special analysis with regard to fire propagation may enable thicker sections. Thicker sections permitted within practical limits for combustible construction.

2. Cornice feature attached with Sto TurboStick Adhesive; also used as filler and rasped smooth at any gaps between feature band and base layer of insulation board.

3. Cornice feature may also be attached directly to StoGuard where applicable.

4. Supplemental mechanical attachment of feature band maybe necessary in some cases. Verify installation method for adequate attachment before commencing work.

- Refer to StoTherm ci System Bulletins and Specifications, Sto Product Bulletins, Tech Hotlines, and Sto Installation and Maintenance Guides for complete information.

- Refer to applicable ICC or CCMC Evaluation Reports for building code compliance information.

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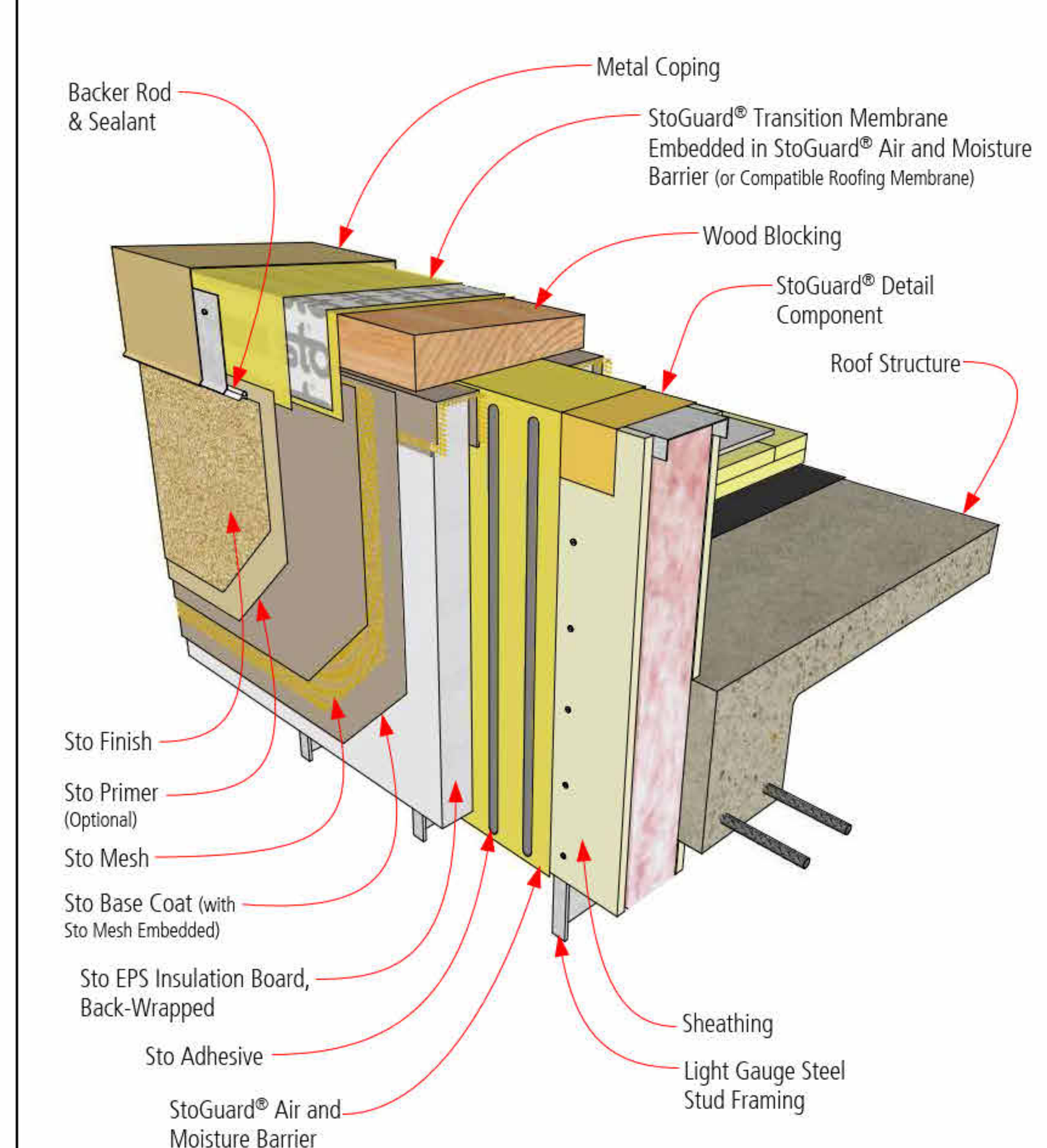
StoTherm® ci
Termination at Parapet - Front

Detail No.: 52s.60A
Date: December 2018



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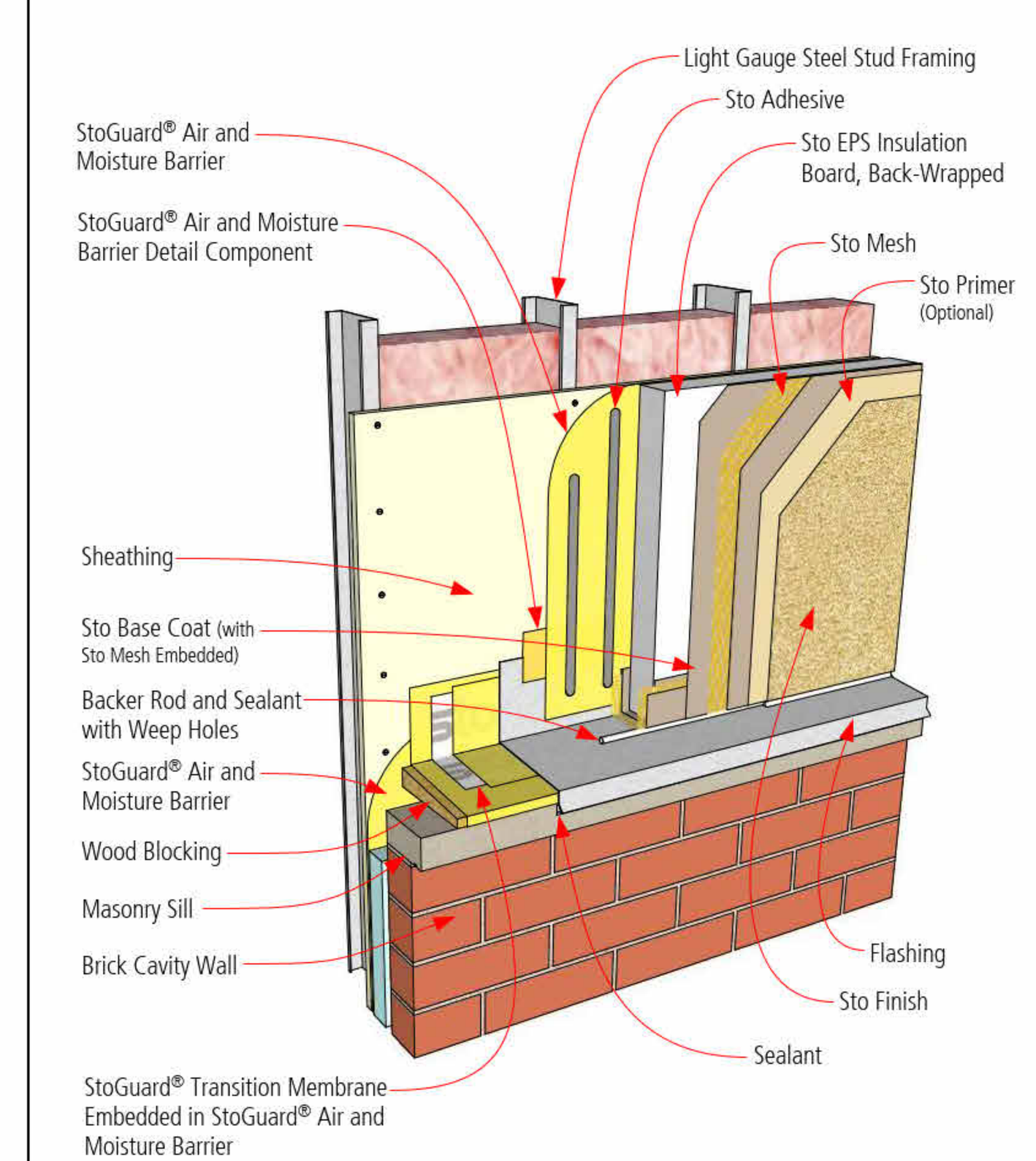
StoTherm® ci
Horizontal Termination at Dissimilar Cladding

Detail No.: 52s.50
Date: December 2018



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Notes:

- Refer to StoTherm ci System Bulletins and Specifications, Sto Product Bulletins, Tech Hotlines, and Sto Installation and Maintenance Guides for complete information.

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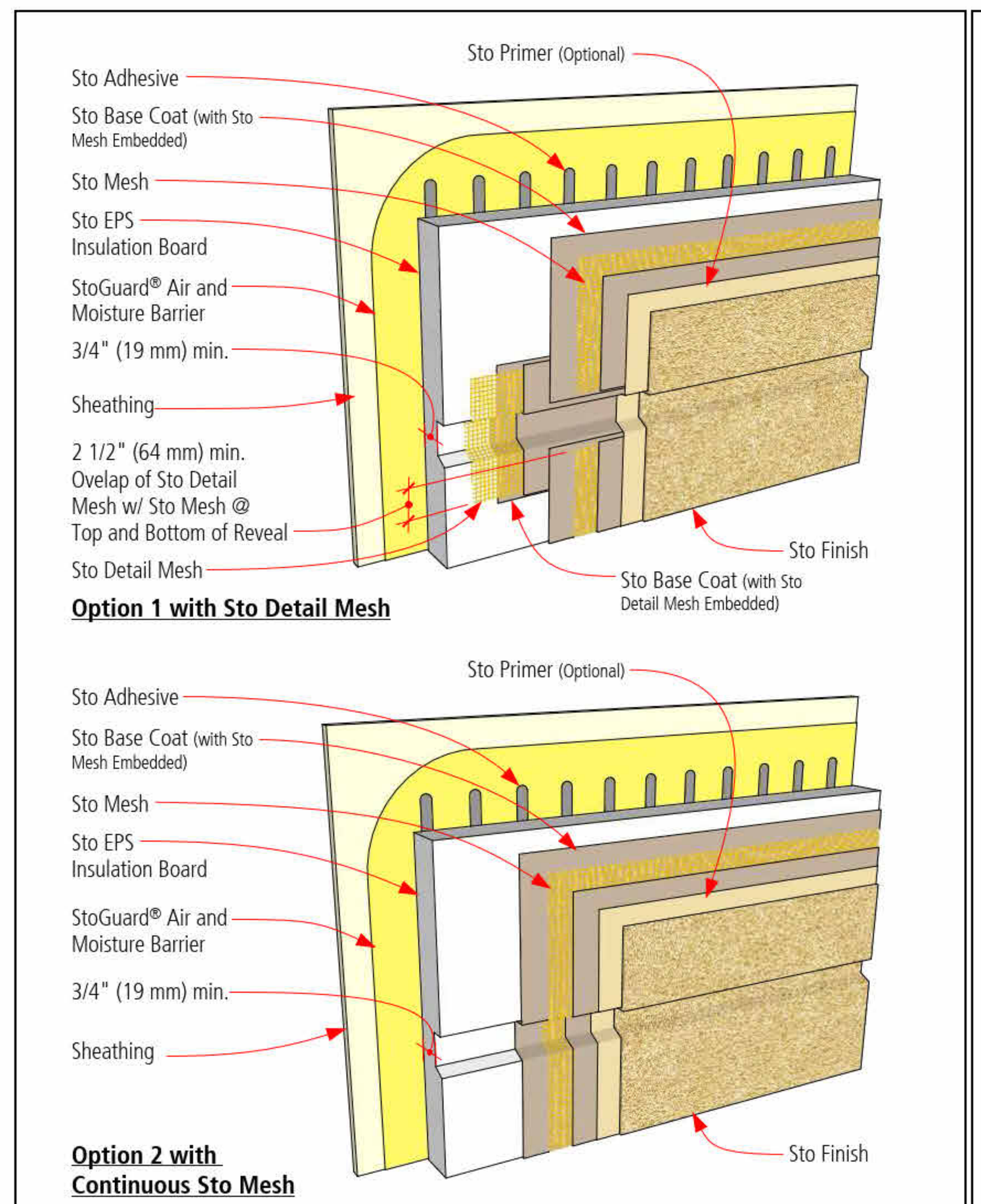
StoTherm® ci
Aesthetic Reveal

Detail No.: 52s.05
Date: December 2018



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Notes:

1. Slope bottom surface of reveal minimum 27 degrees. Increase slope for northern climates to prevent snow and ice accumulations.

2. Maintain minimum 3/4 inch (19 mm) thickness of insulation board at base of reveal.

- Refer to StoTherm ci System Bulletins and Specifications, Sto Product Bulletins, Tech Hotlines, and Sto Installation and Maintenance Guides for complete information.

- Refer to applicable ICC or CCMC Evaluation Reports for building code compliance information.

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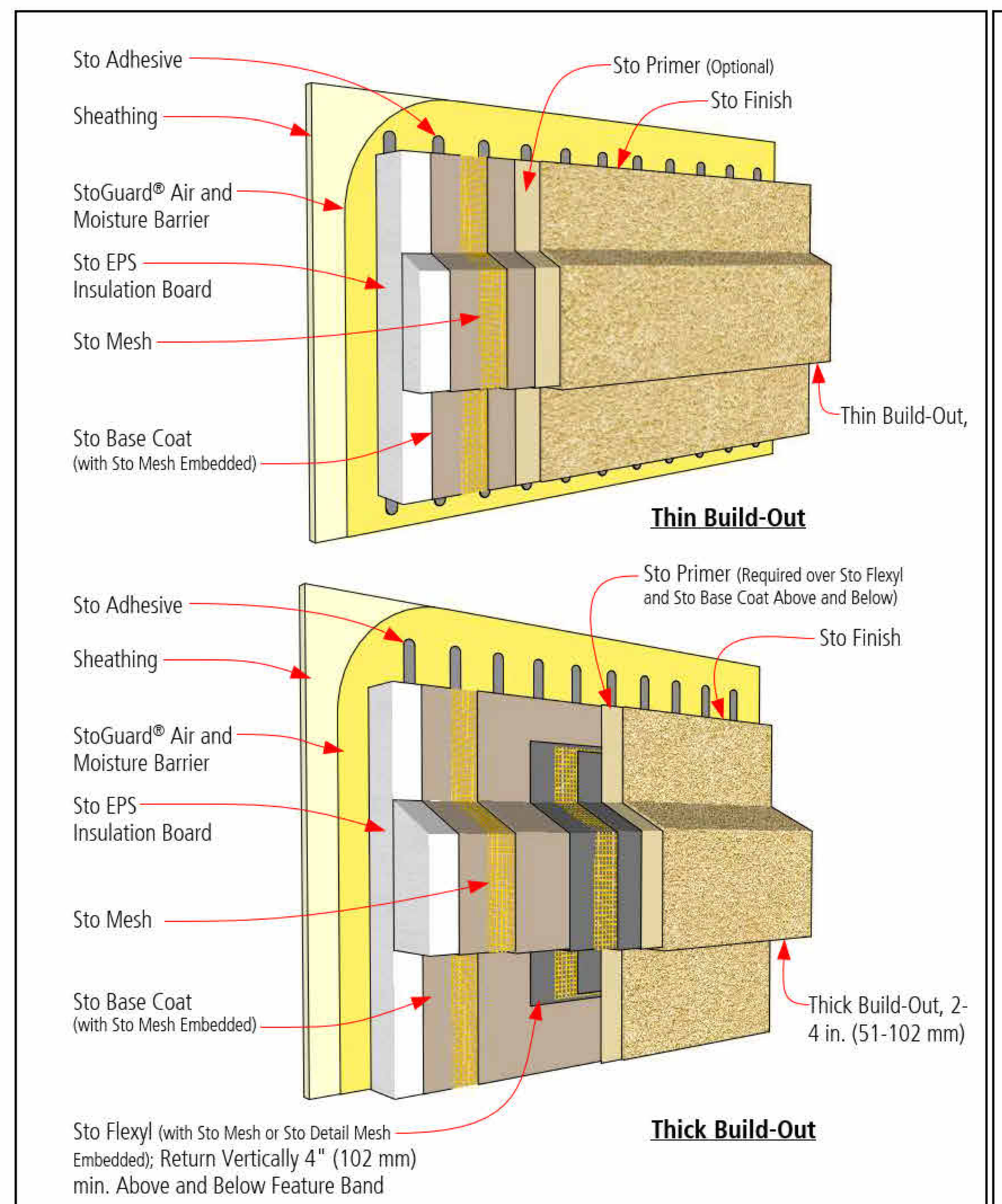
StoTherm® ci
Aesthetic Feature Band

Detail No.: 52s.04
Date: December 2018



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Notes:

1. Feature band attached with Sto TurboStick Adhesive, also used as filler and rasped smooth at any gaps between feature band and base layer of insulation board.

2. Slope top surface of feature band minimum 27 degrees. Increase slope for northern climates to prevent snow and ice acculations.

3. Limit thickness of build-out to reduce maintenance associated with projecting architectural features.

- Refer to StoTherm ci System Bulletins and Specifications, Sto Product Bulletins, Tech Hotlines, and Sto Installation and Maintenance Guides for complete information.

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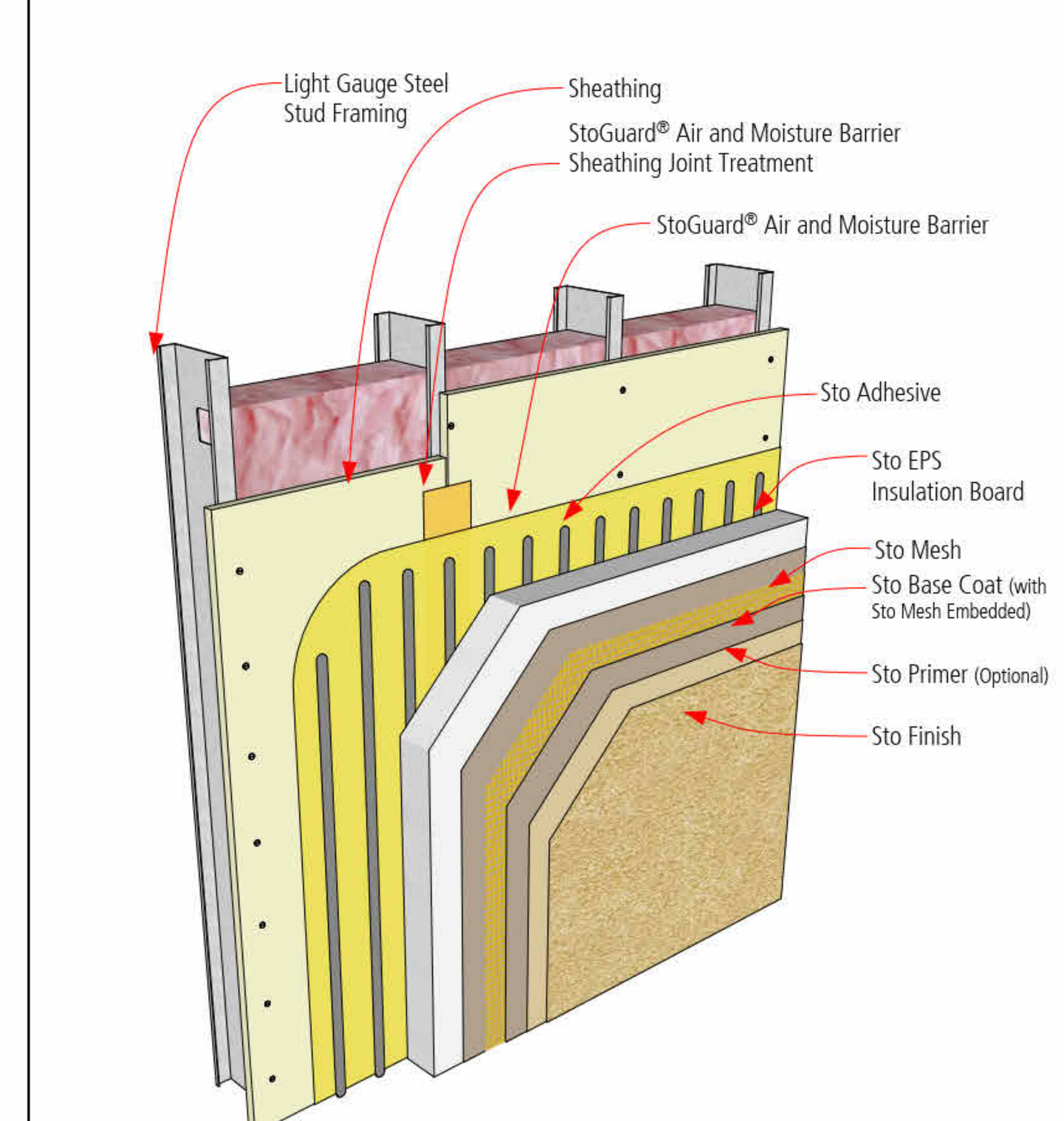
StoTherm® ci
System Components

Detail No.: 52s.00
Date: December 2018



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Notes:

1. StoTherm ci System Components:
 - StoGuard Air and Moisture Barrier
 - Sto Adhesive
 - Sto EPS Insulation Board
 - Sto Mesh
 - Sto Primer (optional)
 - Sto Base Coat
 - Sto Finish

- Refer to StoTherm ci System Bulletins and Specifications, Sto Product Bulletins, Tech Hotlines, and Sto Installation and Maintenance Guides for complete information.

- Refer to applicable ICC or CCMC Evaluation Reports for building code compliance information.

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ZACHARY R. BENEDICT
REGISTERED
No. AR11200057
STATE OF
INDIANA
ARCHITECT

Consultant Logo:

Key Plan:

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NEW CONSTRUCTION
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Fort Wayne, Indiana 46802

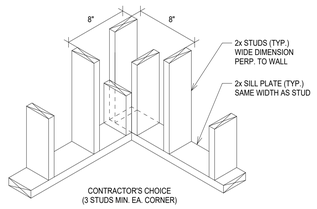
REVISION		
No.	Date	Revision

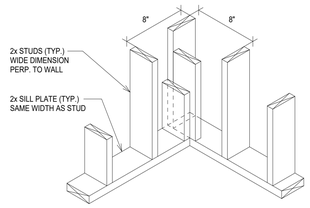
DRAWING CONTENTS:
EIFS MANUFACTURER DETAILS

ISSUE DATE: 09.13.2024
PROJECT NO. 23029

DRAWING NO.
A-507

Plot Time/Date: 9/12/2024 2:50:59 PM
Drawing Name: Template.rte





13 TYPICAL FRAMING DTL.
1" = 1'-0"

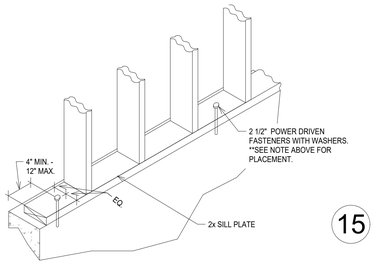
NOTE:
DETAIL SHOWN FOR INTERIOR **NON-BEARING** STUD WALL ONLY. SEE STRUCTURAL FRAMING PLANS FOR ALL BEARING AND SHEAR WALL LOCATIONS.

PLACE SILL ANCHORS AT 12" MAX. FROM END OF EACH SILL PLATE AND CORNERS. MAXIMUM SPACING OF ANCHORS SHALL BE:

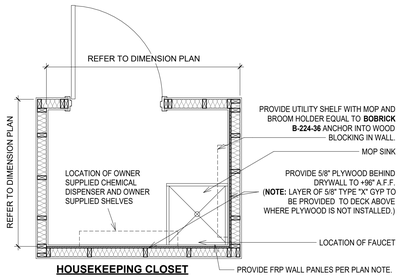
INTERIOR NON-BEARING WALLS	48" O.C.
INTERIOR BEARING WALLS	SEE STRUCTURAL
EXTERIOR BEARING WALLS	SEE STRUCTURAL

SEE STRUCTURAL PLAN FOR BEARING AND SHEAR WALL LOCATIONS.

THERE SHALL BE A MINIMUM OF 2 SILL ANCHORS PER SILL PLATE. COORDINATE SILL PLATE LAYOUT WITH FRAMING CONTRACTOR FOR ACTUAL PLACEMENT OF ALL ANCHORS.

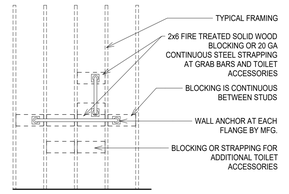


14 TYPICAL FRAMING DTL.
1" = 1'-0"



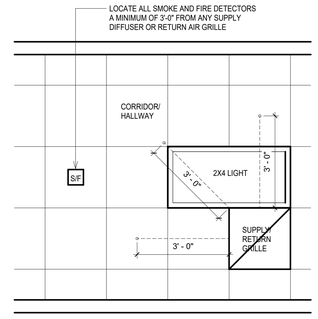
HOUSEKEEPING CLOSET

15 TYPICAL FRAMING DTL.
1/2" = 1'-0"

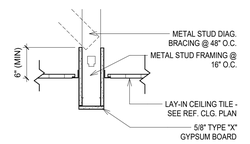


NOTES:
1. TYPICAL AT ALL GRAB BAR LOCATIONS.
2. REFER TO ENLARGED TOILET PLAN FOR TOILET ACCESSORIES LOCATIONS.
3. REFER TO ADA CLEARANCES / TOLERANCES DTLS FOR DIMENSIONAL LOCATIONS.

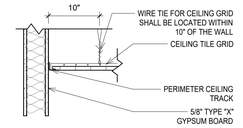
16 GRAB BAR BLOCKING DTL.
3/8" = 1'-0"



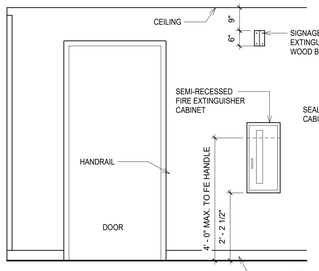
10 SMOKE/FIRE DETECTOR DTL.
1/2" = 1'-0"



8 CEILING DTL.
1" = 1'-0"

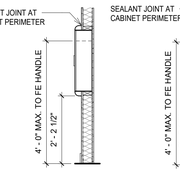


7 CEILING DTL.
1" = 1'-0"

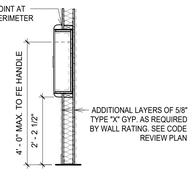


ELEVATION

NOTE: ANY EXTINGUISHER CABINET IN A RATED WALL ASSEMBLY SHALL BE A UL LISTED, DOUBLE WALL, FIRE RATED EXTINGUISHER CABINET WITH 5/8" TYPE "X" GYP. BOARD INSTALLED IN CAVITY PER MANUFACTURES INSTALLATION INSTRUCTIONS. SEE CODE REVIEW PLANS FOR RATED WALL LOCATIONS.

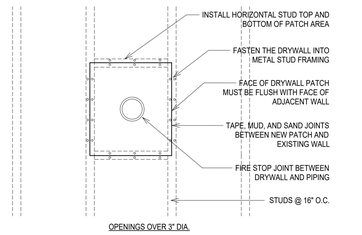


SECTION
NON-RATED WALL ASSEMBLY

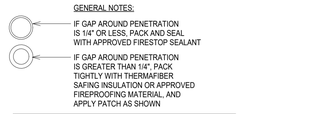


SECTION
RATED WALL ASSEMBLY UP TO 2-HR

5 FIRE EXTINGUISHER DTL.
1/2" = 1'-0"

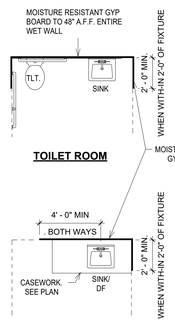


OPENINGS OVER 3" DIA.



RATED AND/OR SMOKE WALLS PATCHING AND SEALING PENETRATIONS

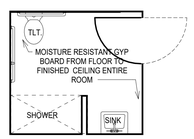
3 TYPICAL FRAMING DTL.
1" = 1'-0"



SINK/ DRINKING FOUNTAIN

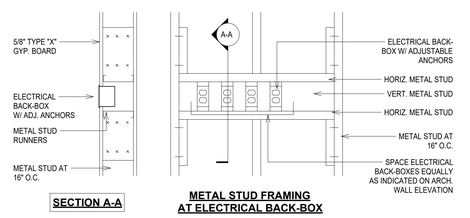
TOILET ROOM

NOTES:
1. SEE SPECIFICATION SECTION 092900 GYPSUM BOARD FOR ADDITIONAL INFORMATION.
2. MOLD RESISTANT GYPSUM BOARD WITH AN ASTM D 3273, SCORE OF 10 AS RATED ACCORDING TO ASTM D 3274,SHALL BE PROVIDED FROM IN THE LOCATIONS LISTED BELOW. SEE DETAIL FOR CLARIFICATION.
   A. ON THE WET WALL AT ALL SINKS/ DRINKING FOUNTAINS AND OTHER PLUMBING FIXTURES FROM FINISH FLOOR TO 48" A.F.F. FOR 48" EITHER DIRECTION FROM CENTERLINE OF PLUMBING FIXTURE.
   B. ON SIDEWALLS FROM FINISH FLOOR TO 48" A.F.F. FOR A DISTANCE OF 24" AT PLUMBING FIXTURE LOCATIONS WHEN FIXTURE IS LOCATED WITHIN 24" OF THE SIDEWALL.
   C. FROM FINISH FLOOR TO 48" A.F.F. FOR THE ENTIRE LENGTH OF THE WET WALL IN ALL TOILET ROOMS.
   D. IN SHOWER ROOMS FROM FLOOR TO FINISH CEILING ON ALL WALLS AND ON CEILNG IF CEILING IS DESIGNATED AS GYPSUM BOARD ON THE RCP.



SHOWER ROOM

19 MOISTURE RESISTANT GYP. DTL.
1/4" = 1'-0"

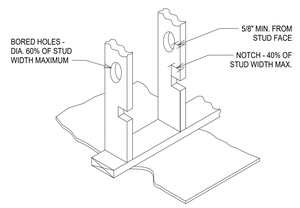


SECTION A-A

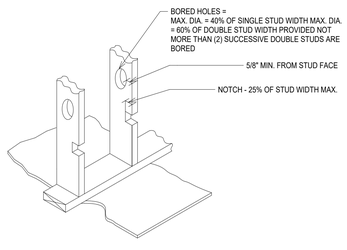
METAL STUD FRAMING AT ELECTRICAL BACK-BOX

9 TYPICAL FRAMING DTL.
1" = 1'-0"

NOTE:
BORED HOLES SHALL NOT BE LOCATED AT THE SAME SECTION OF STUD AS A CUT OR NOTCH.

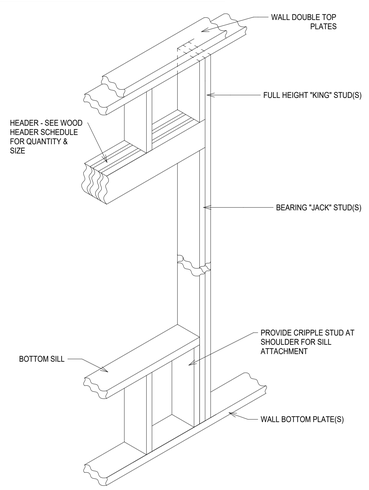


NON-BEARING PARTITION



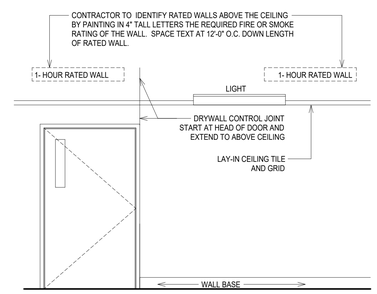
EXTERIOR OR BEARING WALL

12 TYPICAL FRAMING DTL.
1" = 1'-0"



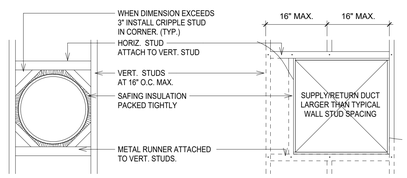
11 TYPICAL FRAMING DTL.
1" = 1'-0"

NON-BEARING HEADER SCHEDULE		
HEADER SIZE	**ORIENTATION**	**MAX OPENING SIZE**
(2) 2 X (MATCH WALL FRAMING)	HORIZONTAL	0'-0" - 3'-0"
(2) 2 X 6 (SHIM AS REQUIRED)	VERTICAL	3'-1" - 8'-0"
(2) 2 X 10 (SHIM AS REQUIRED)	VERTICAL	8'-1" - 12'-0"
SEE FRAMING PLAN/ DETAILS		12'-1" - X'-X"



2 TYP. DRYWALL ELEVATION
3/8" = 1'-0"

NOTE:
IF DUCT IS TO BE INSULATED, DO NOT RUN DUCT INSULATION THROUGH THE WALL FLARE DUCT INSULATION ONTO FACE OF WALL AROUND DUCT ON BOTH SIDES OF WALL, ANS SEAL DUCT INSULATION TO FACE OF WALL WITH INSULATION MASTIC.

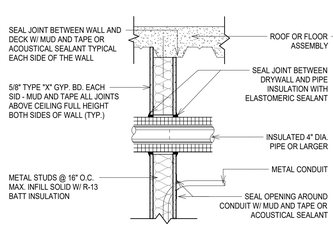


ROUND DUCT PENETRATION

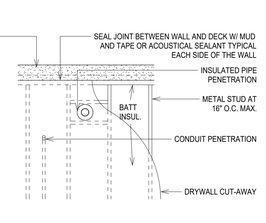
RECTANGULAR DUCT PENETRATION

RATED AND/OR SMOKE WALL DUCT PENETRATION

1 TYPICAL FRAMING DTL.
1" = 1'-0"

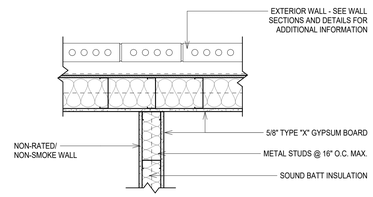


NON-RATED WALL ELEVATION W/ PIPE & CONDUIT PENETRATION



NON-RATED WALL ELEVATION W/ PIPE & CONDUIT PENETRATION

4 TYPICAL FRAMING DTL.
1" = 1'-0"



NON-RATED WALL INTERSECTING EXTERIOR WALL

6 TYPICAL FRAMING DTL.
1" = 1'-0"

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Fort Wayne, Indiana 46802
p 260.422.0783
www.MKMdesign.com

Certification: 09.13.2024 BID SET

Consultant Logo:

Key Plan:

THE LANDING 3.0

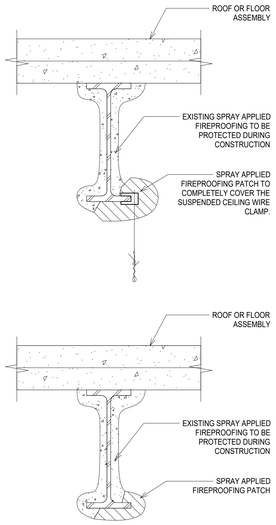
NEW CONSTRUCTION
555 S. HARRISON ST.
Fort Wayne, Indiana 46802

REVISION		
No.	**Date**	**Revision**

DRAWING CONTENTS:
INTERIOR FRAMING DETAILS/ TYPICALS

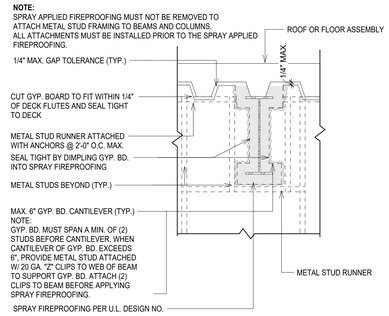
ISSUE DATE:	PROJECT NO.
09.13.2024	23029

DRAWING NO.
A-510



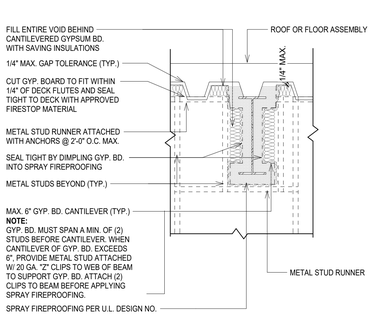
NOTE:
EXISTING STEEL BEAM (OR JOIST) WITH SPRAY APPLIED FIREPROOFING (S.A.F.). THE GENERAL CONTRACTOR IS RESPONSIBLE FOR PATCHING & REPAIRING SPRAY APPLIED FIREPROOFING THAT IS DAMAGED DURING CONSTRUCTION WHEN FASTENERS TO BEAMS & JOISTS ARE REMOVED OR ADDED. THE S.A.F. MUST BE PATCHED. THE G.C. MUST MONITOR SUBCONTRACTORS TO ENSURE THEY DO NOT REMOVE EXCESSIVE S.A.F. DURING CONSTRUCTION WHEN ITEMS ARE ATTACHED TO BEAMS. EXCESSIVE S.A.F. REMOVAL MUST BE PATCHED.

6 FIREPROOFING PATCH DTL.
1 1/2" = 1'-0"



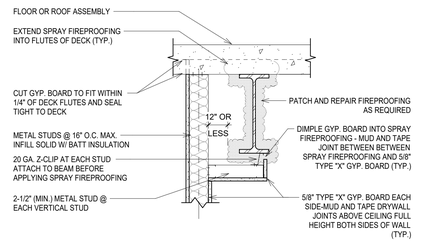
NON-RATED WALLS PERPENDICULAR TO METAL DECK FLUTES

5 TYPICAL FRAMING DTL.
1" = 1'-0"

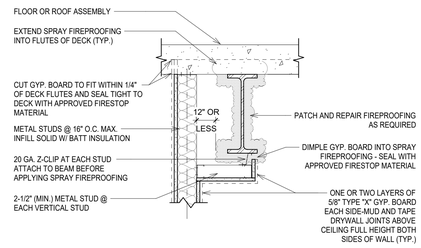


RATED AND/OR SMOKE WALL PERPENDICULAR TO METAL DECK FLUTES

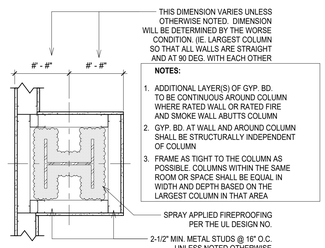
4 TYPICAL FRAMING DTL.
1" = 1'-0"



NON-RATED WALL WITHIN 12" OF SPRAY FIREPROOF BEAM

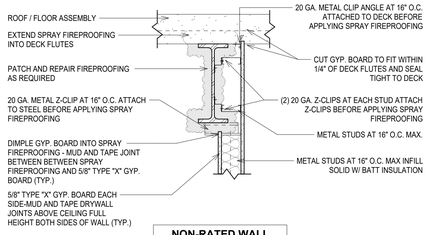


RATED AND/OR SMOKE WALL WITHIN 12" OF SPRAY FIREPROOF BEAM

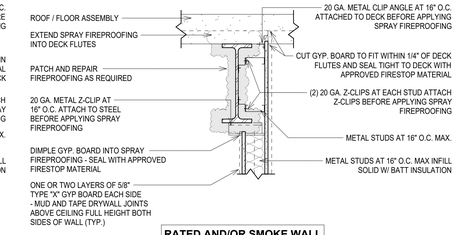


WALLS BYPASSING OR ABUTTING COLUMNS

3 TYPICAL FRAMING DTL.
1" = 1'-0"

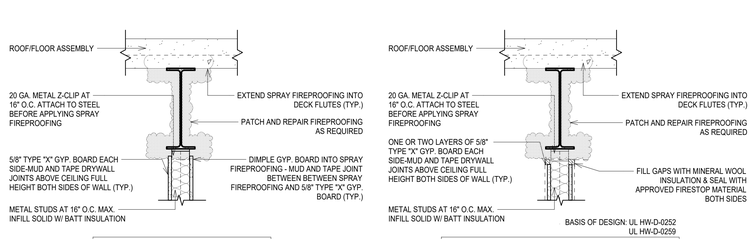


NON-RATED WALL INTERRUPTED BY BEAM



RATED AND/OR SMOKE WALL INTERRUPTED BY BEAM

2 TYPICAL FRAMING DTL.
1" = 1'-0"



NON-RATED WALL UNDER BEAM | **RATED AND/OR SMOKE WALL UNDER BEAM**

1 TYPICAL FRAMING DTL.
1" = 1'-0"

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Certification: 09.13.2024 BID SET

ANTHONY R. BENEDICT REGISTERED No. AR11200057 STATE OF INDIANA ARCHITECT

Consultant Logo:

Key Plan:

THE LANDING 3.0

NEW CONSTRUCTION
555 S. HARRISON ST.
Fort Wayne, Indiana 46802

REVISION		
No.	Date	Revision

DRAWING CONTENTS:
LIFE SAFETY/ FIREPROOFING DETAILS/ TYPICALS

ISSUE DATE: 09.13.2024
PROJECT NO. 23029

DRAWING NO.
A-511

Plot Time/Date: 9/12/2024 2:51:03 PM
Drawing Name: fireproofing.rvt

ACCESS CONTROL BASIS OF DESIGN NOTES:
1. AI-PHONE BASIS OF DESIGN: FONECOM BY TELEPORTIVITY, 10" OUTDOOR DISPLAY UNIT, TIED TO DOOR RELEASE BUTTON AND INTEGRATED INTO ACCESS CONTROL SYSTEM TO ALLOW TENANT MOBILE DEVICES TO BE CALLED AND USED TO RELEASE DOOR.
2. ACCESS CONTROL SYSTEM BASIS OF DESIGN:
   A. SALTO SPACE WIRE FREE ACCESS CONTROL TECHNOLOGY PLATFORM
      1. ACCESS CONTROL SYSTEM TO HAVE BOTH BLUE NET WIRELESS ACCESS AS WELL AS MOBILE DEVICE ACCESS
   B. ELECTRONIC ENTRY LOCKSET (APARTMENT ENTRY) BASIS OF DESIGN: SALTO XS4 ORIGIANL- ANSI, WHITE READER, SATIN CHROME HANDLES, REF "R" HANDLE 2 3/8" BACKSEAT
   C. CARD READER BASIS OF DESIGN: SALTO, DESIGN XS, ANSI WALL READER.
3. HARDWARE PROVIDER SHALL PROVIDE ACCESS CONTROL SYSTEM COMPLETE WITH ALL REQUIRED CONTROL UNITS, CABLING, (100) CARRIER KEY FOBS),, PROGRAMING, OWNER TRAINING, 1 YEAR OF SERVICE, AND MANUFACTURE STANDARD WARRANTY ON SYSTEM.

DOOR SCHEDULE LEGEND

HARDWARE SET #1 – TYPICAL APARTMENT ENTRY
1. (3) SPRING HINGE
2. ELECTRONIC ENTRY LOCKSET (SALOT) (BY ACCESS CONTROL)
3. SMOKE SEALS
4. MOP PLATE 4" TALL
5. PEEP HOLE
6. WALL STOP OR (2) HINGE PIN STOP (AS REQUIRED)

HARDWARE SET #2 - TYPICAL APARTMENT BEDROOM/ BATHROOM
1. (3) HINGE
2. BED & BATH PRIVACY LOCKSET
3. (1) WALL STOP

HARDWARE SET #3 - TYPICAL APARTMENT CLOSET/ LAUNDRY (SINGLE)
1. (3) HINGE
2. PASSAGE LOCKSET
3. (2) HINGE PIN STOP

HARDWARE SET #4 - TYPICAL APARTMENT CLOSET/ LAUNDRY (DOUBLE)
1. (6) HINGE
2. (2) DUMMY HANDLES
3. (4) HINGE PIN STOP
4. (2) BALL CATCH

HARDWARE SET #5 - TYPICAL APARTMENT UTILITY ROOM
1. (3) HINGE
2. STOREROOM LOCKSET
3. (2) HINGE PIN STOP

HARDWARE SET #6 – TRASH ROOMS FLOORS 2-6
1. (3) HINGE
2. CLASSROOM LOCKSET
3. SURFACE CLOSER (PULL SIDE INSTALL)
4. KICKPLATE 8"
5. WALL STOP
6. (3) SILENCERS
7. SMOKE SEALS

HARDWARE SET #7 – IDF/ MECH/ HK ROOMS
1. (3) HINGE
2. STOREROOM LOCKSET
3. SURFACE CLOSER (PULL SIDE INSTALL)
4. MOP PLATE 4"
5. WALL STOP/ HINGE PIN STOP AS NEEDED
6. (3) SILENCERS
7. SMOKE SEALS

HARDWARE SET #8 – STAIR DOORS
1. PANELED HALF GLASS/ NL DOOR LEAF
2. (3) HINGE
3. PANIC HARDWARE (WITH LEVER & CYLINDER)
4. MORTISE CYLINDER
5. SURFACE CLOSER (INSTALL INSIDE STAIRWELL)
6. MOP PLATE 4"
7. OVERHEAD STOP/ WALL STOP SEE PLAN
8. (3) SILENCERS
9. SMOKE SEALS

HARDWARE SET #9 – TRASH ROOM FIRST FLOOR,
1. (3) HINGE
2. STOREROOM LOCKSET
3. SURFACE CLOSER
4. OVERHEAD STOP W/ HOLD OPEN
5. (3) SILENCERS
6. SMOKE SEALS

HARDWARE SET #10 – APARTMENT ENTRY
1. (1) CONTINUOUS HINGE
2. (1) EXIT DEVICE
3. RIM CYLINDER
4. OFFSET PULLS (48" TALL, CLEAR ALUM FINISH)
5. DOOR CLOSERS (PUSH SIDE INSTALL)
6. AUTO OPERATOR
7. OVERHEAD STOP
8. (2) WALL ACTUATOR
9. CREDENTIAL READER (ACCESS CONTOL)
10. ELECTRIC STRIKE
11. POWER TRANSFER
12. POWER SUPPLY
13. AI-PHONE IN EXTERIOR (ACCESS CONTOL)
14. DOOR SEEPS
15. THRESHOLD
16. DOOR RELEASE (ACCESS CONTOL)
17. DOOR POSITION SWITCH (ACCESS CONTOL)

NOTE: DOOR NORMALY LOCKED FROM EXTERIOR, ACCESS TO BE GRANTED EITHER FROM EXTERIOR CARD READER OR FROM DOOR REALSE TIED INTO AI-PHONE ON EXTERIOR, AUTO PUSH PLASTE TO OPEN DOOR FROM INTERIOR AT ALL TIMES AND FROM EXTERIOR WHEN CARD READER OR DOOR REALSE HAS BEEN ACTIVATED.

HARDWARE SET #11 – COMMERCIAL SPACE ENTRY
1. (2) CONTINUOUS HINGE
2. (2) EXIT DEVICE (CONCEALED VERTICAL ROD)
3. (2) OFFSET PULLS (48" TALL, CLEAN ALUM)
4. (2) FLUSH BOLTS (LHR LEAF)
5. RIM CYLINDER
6. DOOR CLOSERS
7. OVERHEAD STOP
8. DOOR SEEPS
9. THRESHOLD

HARDWARE SET #12 – EXTERIOR EXIT DOOR
1. CONTINUOUS HINGE
2. EXIT DEVICE
3. RIM CYLINDER
4. OFFSET PULLS OFFSET PULLS (48" TALL, CLEAN ALUM)
5. DOOR CLOSERS
6. OVERHEAD STOP
7. DOOR SEEPS
8. THRESHOLD
9. ELECTRIC STRIKE
10. CARD READER (ACCESS CONTROL)
11. POWER SUPPLY
12. DOOR POSITION SWITCH (ACCESS CONTROL)

HARDWARE SET #13 – NOTE USED

HARDWARE SET #14 –MECH./ ELECT ROOM
1. (3) HINGE
2. STOREROOM LOCKSET
3. SURFACE CLOSER
4. WALL STOP
5. SMOKE SEALS

HARDWARE SET #15 – TRASH ROOM EXTERIOR
1. (2) CONTINUOUS HINGE
2. (2) FLUSH BOLTS (LHR LEAF)
3. STOREROOM LOCKSET (RHR LEAF)
4. RIM CYLINDER
5. OVERHEAD HOLDER
6. CLOSER
7. RAIN DRIP
8. SWEEPS
9. THRESHOLD

HARDWARE SET #16 – MAIL ROOM
1. (3) HINGE
2. CLASSROOM LOCK
3. ELECTRIC STRIKE
4. CLOSER
5. OVERHEAD STOP
6. CREDENTIAL READER (BY ACCESS CONTROL)
7. POWER SUPPLY
8. DOOR POSITION SWITCH (BY ACCESS CONTROL)

NOTE: DOOR NORMALT CLOSED AND LOCKED SECURE VIA ELECTRIC STRIKE FROM LOBBY SIDE, ACCESS GRANTED VIA ELECTRICK STRIKE AND CREDITIAL READER, FREE TO AGREEE AT ALL TIME FROM INTERIOR.

HARDWARE SET #17 – APARTMENT BALCONY DOORS
1. PRE-HUNG FULLGLASS, FIBERGLASS INSWING, PATIO DOOR (BoD: MASONITE OR EQUAL)
2. PROVIDED WITH NO BRICKMOLD OR CASINGS, WITH WOOD/ COMPOSITE JAMBS
3. FULL GLASS WITH INTEGRAL BLINDS
4. LEVER HANDLE HARDWARE
5. BRUSHED CHROME HARDWARE
6. FACTORY PRIMED LEAF FOR FIELD PAINT
7. FILED APPLIED EXTERIOR SIDING/ TRIMS
8. FILED APPLIED INTERIOR CASINGS
9. ADA THRESHOLD WEATHERSTRIPPING

DOOR SCHEDULE - UNIT A - TYPICAL OF UNITS 201, 301, 401, 501, & 601

DOOR NUMBER	LABEL	LEAF SIZE W	LEAF SIZE H	LEAF SIZE THICKNESS	LEAF TYPE	LEAF MATERIAL	LEAF FINISH	FRAME TYPE	FRAME MATERIAL	FRAME FINISH	DOOR HARDWARE SETS	COMMENTS
LEVEL 3 - THIRD FLOOR												
301-A	20 Min.	2' - 10"	6' - 8"	1 3/8"	P	SCWD	PT	1	WD	STL	Set 1	
301-B		2' - 8"	6' - 8"	1 3/8"	P	HCWD	PT	3	WD	PT	Set 5	
301-C		2' - 8"	6' - 8"	1 3/8"	P	HCWD	PT	3	WD	PT	Set 3	
301-D		2' - 0"	6' - 8"	1 3/8"	P	HCWD	PT	3	WD	PT	Set 3	
301-G		2' - 10"	6' - 8"		FG	-	-	-	-	-	Set 17	fLOORS 3-6 ONLY
301-I		4' - 0"	6' - 8"	1 3/4"	P	HCWD	PT	3	WD	PT	Set 4	
301-J		4' - 0"	6' - 8"	1 3/4"	P	HCWD	PT	3	WD	PT	Set 4	
301-K		2' - 10"	6' - 8"	1 3/8"	P	HCWD	PT	3	WD	PT	Set 2	
301-L		2' - 10"	6' - 8"	1 3/8"	P	HCWD	PT	3	WD	PT	Set 2	

DOOR SCHEDULE - UNIT B - 202, 302, 402, 502, & 602

DOOR NUMBER	LABEL	LEAF SIZE W	LEAF SIZE H	LEAF SIZE THICKNESS	LEAF TYPE	LEAF MATERIAL	LEAF FINISH	FRAME TYPE	FRAME MATERIAL	FRAME FINISH	DOOR HARDWARE SETS	COMMENTS
LEVEL 2 - SECOND FLOOR												
202-A	20 Min.	2' - 10"	6' - 8"	1 3/8"	P	SCWD	PT	1	ST	PT	Set 1	
202-C		2' - 10"	6' - 8"	1 3/8"	P	HCWD	PT	3	WD	PT	Set 2	
202-D		4' - 0"	6' - 8"	1 3/8"	P	HCWD	PT	3	WD	PT	Set 4	
202-E		2' - 10"	6' - 8"	1 3/8"	P	HCWD	PT	3	WD	PT	Set 2	
202-F		4' - 8"	6' - 8"	1 3/4"	P	HCWD	PT	3	WD	PT	Set 4	
202-H		2' - 8"	6' - 8"	1 3/8"	P	HCWD	PT	3	WD	PT	Set 5	

DOOR SCHEDULE - UNIT C - 203, 303, 403, 503, & 603

	LABEL	LEAF SIZE W	LEAF SIZE H	LEAF SIZE THICKNESS	LEAF TYPE	LEAF MATERIAL	LEAF FINISH	FRAME TYPE	FRAME MATERIAL	FRAME FINISH	DOOR HARDWARE SETS	COMMENTS
LEVEL 3 - THIRD FLOOR												
303-A	20 Min.	2' - 10"	6' - 8"	1 3/8"	P	SCWD	PT	1	ST	PT	Set 1	
303-B		2' - 0"	6' - 8"	1 3/8"	P	HCWD	PT	3	WD	PT	Set 4	
303-C		2' - 8"	6' - 8"	1 3/8"	P	HCWD	PT	3	WD	PT	Set 5	
303-D		2' - 8"	6' - 8"	1 3/8"	P	HCWD	PT	3	WD	PT	Set 4	
303-E		2' - 10"	6' - 8"	1 3/8"	P	HCWD	PT	3	WD	PT	Set 2	
303-G		3' - 0"	6' - 8"		FG	-	-	-	-	-	Set 17	FLOORS 3-5 ONLY
303-I		2' - 10"	6' - 8"	1 3/8"	P	HCWD	PT	3	WD	PT	Set 2	
303-J		4' - 0"	6' - 8"	1 3/4"	P	HCWD	PT	3	WD	PT	Set 4	
303-K		2' - 10"	6' - 8"	1 3/8"	P	HCWD	PT	3	WD	PT	Set 2	
303-L		2' - 10"	6' - 8"	1 3/8"	P	HCWD	PT	3	WD	PT	Set 2	
303-M		2' - 10"	6' - 8"	1 3/8"	P	HCWD	PT	3	WD	PT	Set 4	

DOOR SCHEDULE - UNIT D (ADA)

DOOR NUMBER	LABEL	LEAF SIZE W	LEAF SIZE H	LEAF SIZE THICKNESS	LEAF TYPE	LEAF MATERIAL	LEAF FINISH	FRAME TYPE	FRAME MATERIAL	FRAME FINISH	DOOR HARDWARE SETS	COMMENTS
LEVEL 2 - SECOND FLOOR												
204-A	20 Min.	2' - 10"	6' - 8"	1 3/8"	P	SCWD	PT	1	STL	PT	Set 1	
204-B		2' - 8"	6' - 8"	1 3/8"	P	HCWD	PT	3	WD	PT	Set 5	
204-D		5' - 0"	6' - 8"	1 3/4"	P	HCWD	PT	3	WD	PT	Set 4	
204-E		2' - 0"	6' - 8"	1 3/8"	P	HCWD	PT	3	WD	PT	Set 3	
204-F		2' - 10"	6' - 8"	1 3/8"	P	HCWD	PT	3	WD	PT	Set 2	
204-G		4' - 0"	6' - 8"	1 3/4"	P	HCWD	PT	3	WD	PT	Set 4	
204-H		2' - 10"	6' - 8"	1 3/8"	P	HCWD	PT	3	WD	PT	Set 2	

DOOR SCHEDULE - UNIT D - 304, 404, 504, & 604

DOOR NUMBER	LABEL	LEAF SIZE W	LEAF SIZE H	LEAF SIZE THICKNESS	LEAF TYPE	LEAF MATERIAL	LEAF FINISH	FRAME TYPE	FRAME MATERIAL	FRAME FINISH	DOOR HARDWARE SETS	COMMENTS
LEVEL 3 - THIRD FLOOR												
304-A	20 Min.	2' - 10"	6' - 8"	1 3/8"	P	SCWD	PT	1	STL	PT	Set 1	
304-C		2' - 0"	6' - 8"	1 3/8"	P	HCWD	PT	3	WD	PT	Set 3	
304-D		2' - 10"	6' - 8"	1 3/8"	P	HCWD	PT	3	WD	PT	Set 2	
304-E		2' - 10"	6' - 8"	1 3/8"	P	HCWD	PT	3	WD	PT	Set 2	
304-FA		4' - 0"	6' - 8"	1 3/4"	P	HCWD	PT	3	WD	PT	Set 4	
304-FB		4' - 0"	6' - 8"	1 3/4"	P	HCWD	PT	3	WD	PT	Set 4	
304-G		2' - 8"	6' - 8"	1 3/8"	P	HCWD	PT	3	WD	PT	Set 5	
304-H		2' - 8"	6' - 8"	1 3/8"	P	HCWD	PT	3	WD	PT	Set 3	
304-J		3' - 0"	6' - 8"		FG	-	-	-	-	-	Set 17	FLOORS 3-5 ONLY

DOOR SCHEDULE - UNIT E - 206, 207, 305, 306, 307, 405, 406, 407, 505, 506, 507, 605, 606, &607

DOOR NUMBER	LABEL	LEAF SIZE W	LEAF SIZE H	LEAF SIZE THICKNESS	LEAF TYPE	LEAF MATERIAL	LEAF FINISH	FRAME TYPE	FRAME MATERIAL	FRAME FINISH	DOOR HARDWAR E SETS	COMMENTS
LEVEL 3 - THIRD FLOOR												
306-A	20 Min.	2' - 10"	6' - 8"	1 3/8"	P	SCWD	ST	1	WD	PT	Set 1	
306-B		4' - 0"	6' - 8"	1 3/4"	P	HCWD	PT	3	WD	PT	Set 3	
306-C		2' - 8"	6' - 8"	1 3/8"	P	HCWD	PT	3	WD	PT	Set 3	
306-D		2' - 8"	6' - 8"	1 3/8"	P	HCWD	PT	3	WD	PT	Set 5	
306-G		2' - 10"	6' - 8"	1 3/8"	P	HCWD	PT	3	WD	PT	Set 2	
306-H		2' - 0"	6' - 8"	1 3/8"	P	HCWD	PT	3	WD	PT	Set 3	

DOOR SCHEDULE - UNIT E (ADA)

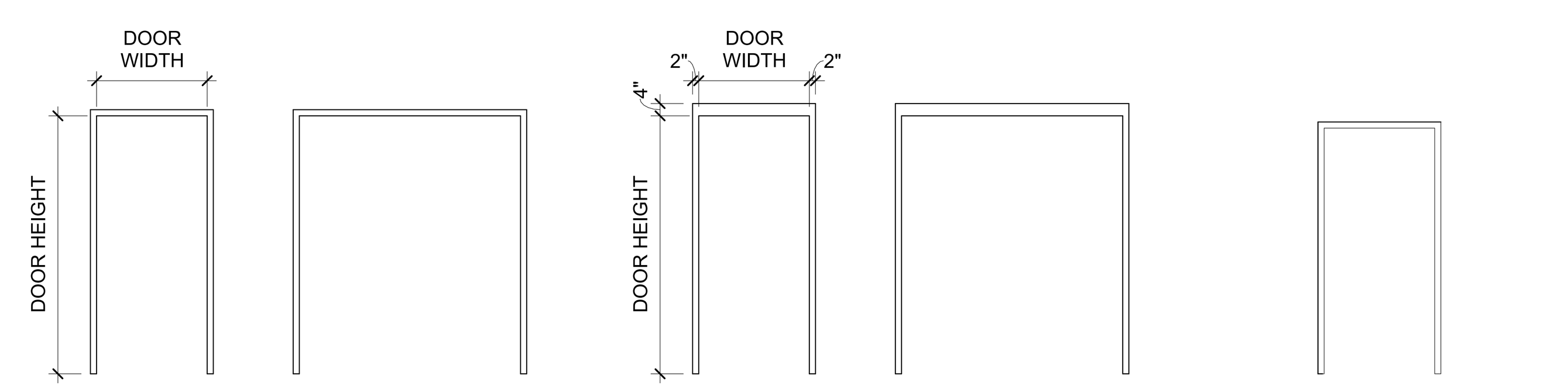
DOOR NUMBER	LABEL	LEAF SIZE W	LEAF SIZE H	LEAF SIZE THICKNESS	LEAF TYPE	LEAF MATERIAL	LEAF FINISH	FRAME TYPE	FRAME MATERIAL	FRAME FINISH	DOOR HARDWARE SETS	COMMENTS
LEVEL 2 - SECOND FLOOR												
205-A	20 Min.	2' - 10"	6' - 8"	1 3/8"	P	SCWD	PT	1	STL	PT	Set 1	
205-B		2' - 8"	6' - 8"	1 3/8"	P	HCWD	PT	3	WD	PT	Set 5	
205-C		5' - 0"	6' - 8"	1 3/4"	P	HCWD	PT	3	WD	PT	Set 4	
205-D		2' - 8"	6' - 8"	1 3/8"	P	HCWD	PT	3	WD	PT	Set 3	
205-G		2' - 10"	6' - 8"	1 3/8"	P	HCWD	PT	3	WD	PT	Set 2	

DOOR SCHEDULE - UNIT F - 208, 308, 408, 508, & 608

DOOR NUMBER	LABEL	LEAF SIZE W	LEAF SIZE H	LEAF SIZE THICKNESS	LEAF TYPE	LEAF MATERIAL	LEAF FINISH	FRAME TYPE	FRAME MATERIAL	FRAME FINISH	DOOR HARDWARE SETS	COMMENTS
LEVEL 3 - THIRD FLOOR												
308-A	20 Min.	2' - 10"	6' - 8"	1 3/8"	P	SCWD	PT	1	WD	STL	Set 1	
308-B		2' - 10"	6' - 8"	1 3/8"	P	HCWD	PT	3	WD	PT	Set 2	
308-C		2' - 8"	6' - 8"	1 3/8"	P	HCWD	PT	3	WD	PT	Set 5	
308-E		2' - 6"	6' - 8"	1 3/8"	P	HCWD	PT	3	WD	PT	Set 3	
308-F		1' - 10"	6' - 8"	1 3/8"	P	HCWD	PT	3	WD	PT	Set 3	
308-G		1' - 10"	6' - 8"	1 3/8"	P	HCWD	PT	3	WD	PT	Set 3	

DOOR SCHEDULE - COMMON AREAS

DOOR NUMBER	LABEL	LEAF SIZE W	LEAF SIZE H	LEAF SIZE THICKNESS	LEAF TYPE	LEAF MATERIAL	LEAF FINISH	FRAME TYPE	FRAME MATERIAL	FRAME FINISH	DOOR HARDWARE SETS	COMMENTS
LEVEL 1 - FIRST FLOOR												
101		3' - 0"	7' - 0"		FG	ALUM	ANOD	-	-	-	Set 16	
101a		2' - 10"	6' - 8"	1 3/8"	P	SCWD	PT	1	STL	PT	Set 7	
103		7' - 0"	7' - 0"	1 3/4"	F	HM	PT	2	HM	PT	Set 15	
104		3' - 0"	7' - 0"	1 3/4"	P	SCWD	PT	1	STL	PT	Set 7	
105	90 Min.	3' - 6"	7' - 0"	1 3/4"	F	HM	PT	2	HM	PT	Set 14	
105b		3' - 0"	7' - 0"		-	-	-	-	-	-	DRYWALL OPENING	
107	90 Min.	3' - 0"	7' - 0"	1 3/4"	HG	SCWD	PT	2	HM	PT	Set 8	
108		3' - 6"	7' - 11 3/4"		FG	ALUM	ANOD	-	-	-	Set 10	
111A		6' - 0"	7' - 5"	1 3/8"	FG	ALUM	ANOD	1	-	-	SET 11	
111B		6' - 0"	7' - 5"	1 3/8"	FG	ALUM	ANOD	1	-	-	SET 11	
112	90 Min.	3' - 0"	7' - 0"	1 3/4"	F	SCWD	PT	1	STL	PT	Set 8	
115		3' - 0"	7' - 5"		FG	ALUM	ANOD	-	-	-	SET 12	
LEVEL 2 - SECOND FLOOR												
209	60 Min.	3' - 0"	7' - 0"	1 3/4"	P	SCWD	PT	1	STL	PT	Set 6	
211	90 Min.	3' - 0"	7' - 0"	1 3/4"	NL	SCWD	PT	1	STL	PT	Set 8	
214	90 Min.	3' - 0"	7' - 0"	1 3/4"	NL	SCWD	PT	1	STL	PT	Set 8	
LEVEL 3 - THIRD FLOOR												
309	60 Min.	3' - 0"	7' - 0"	1 3/4"	P	SCWD	PT	1	STL	PT	Set 6	
311	90 Min.	3' - 0"	7' - 0"	1 3/4"	NL	SCWD	PT	1	STL	PT	Set 8	
312	20 Min.	2' - 10"	6' - 8"	1 3/8"	P	SCWD	PT	1	STL	PT	Set 7	
314	90 Min.	3' - 0"	7' - 0"	1 3/4"	NL	SCWD	PT	1	STL	PT	Set 8	
LEVEL 4 - FOURTH FLOOR												
409	60 Min.	3' - 0"	7' - 0"	1 3/4"	P	SCWD	PT	1	STL	PT	Set 6	
411	90 Min.	3' - 0"	7' - 0"	1 3/4"	NL	SCWD	PT	1	STL	PT	Set 8	
414	90 Min.	3' - 0"	7' - 0"	1 3/4"	NL	SCWD	PT	1	STL	PT	Set 8	
LEVEL 5 - FIFTH FLOOR												
509	60 Min.	3' - 0"	7' - 0"	1 3/4"	P	SCWD	PT	1	STL	PT	Set 6	
511	90 Min.	3' - 0"	7' - 0"	1 3/4"	NL	SCWD	PT	1	STL	PT	Set 8	
512	20 Min.	2' - 10"	6' - 8"	1 3/8"	P	SCWD	PT	1	STL	PT	Set 7	
514	90 Min.	3' - 0"	7' - 0"	1 3/4"	NL	SCWD	PT	1	STL	PT	Set 8	
LEVEL 6 - SIXTH FLOOR												
609	60 Min.	3' - 0"	7' - 0"	1 3/4"	P	SCWD	PT	1	STL	PT	Set 6	
611	90 Min.	3' - 0"	7' - 0"	1 3/4"	NL	SCWD	PT	1	STL	PT	Set 8	
612	20 Min.	2' - 10"	6' - 8"	1 3/8"	P	SCWD	PT	1	STL	PT	Set 7	
614	90 Min.	3' - 0"	7' - 0"	1 3/4"	NL	SCWD	PT	1	STL	PT	Set 8	

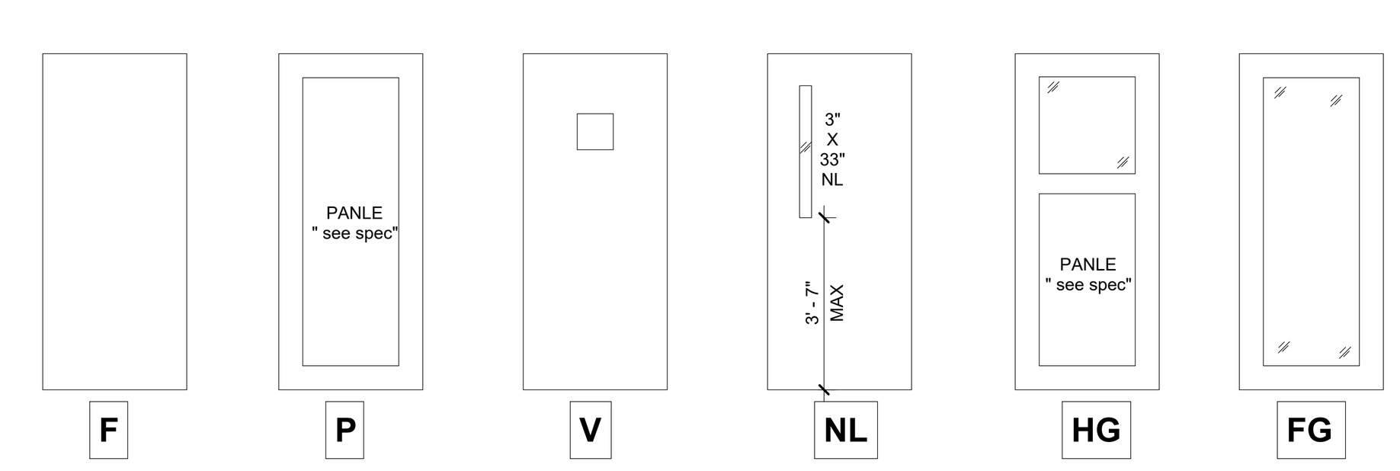


1 — TIMELY STEEL METAL FRAME W/ 1 X 4 FIELD APPLIED PAINTED WOOD CASING CASING. SEE SPECS.

2 — NOTE: 2" HM FRAME
- EXTERIOR FRAMES TO BE WELDED. -
- INTERIOR FRAMES TO BE KNOCKDOWN.

3 — NOTE: SPLIT JAMB WOOD FRAME W/ 1X4 PAINTED CASING.

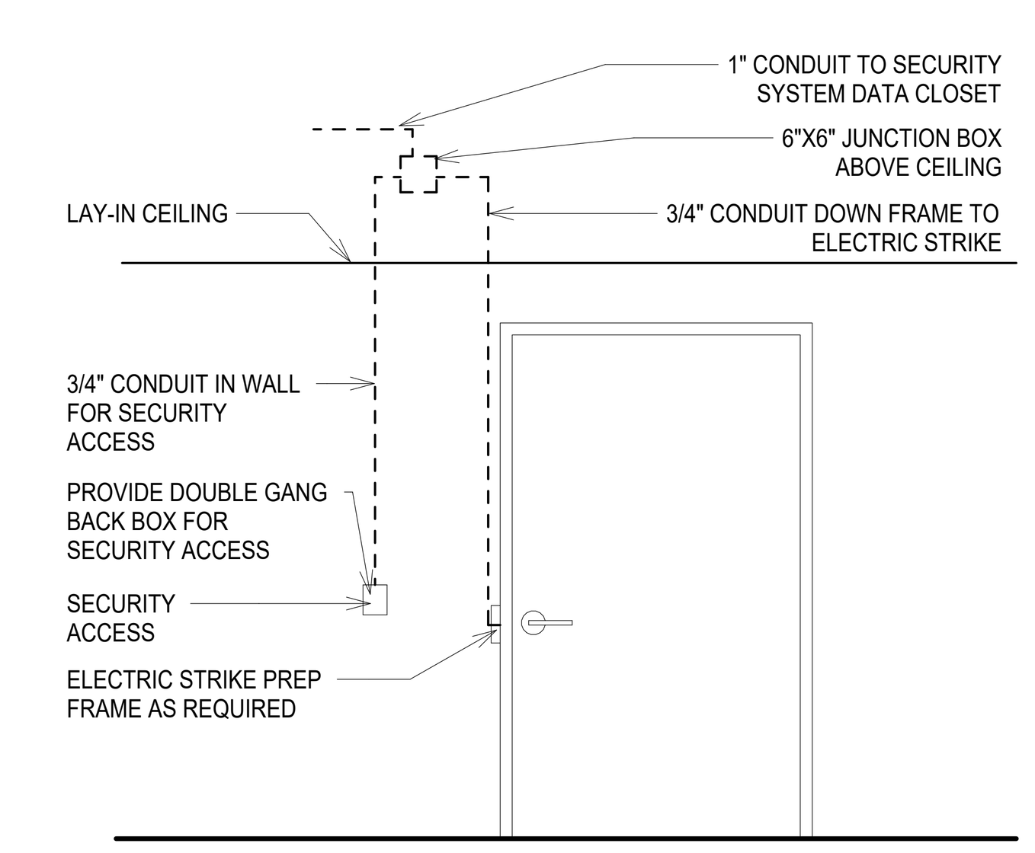
DOOR FRAME ELEVATIONS



DOOR LEAF ABBREVIATIONS:
F - FLUSH
V - VISION LITE
NL - NARROW LITE
HG - HALF GLASS
FG - FULL GLASS
P- -PANLED DOOR

ADDITIONAL ABBREVIATIONS:
ALUM - ALUMINUM
ANOD - ANODIZED
GHM - GALVANIZED HOLLOW METAL
HM - HOLLOW METAL
HPC - HIGH-PERFORMANCE COATING
SCW - SOLID CORE WOOD
HCW - HOLLOW CORE WOOD
WD - SOLID CORE MDF DOORS WOOD
HCWD - HOLOW CORE WOOD DOOR
PT - PAINT
ST - STAIN
KYR - KYNAR

DOOR LEAF ELEVATIONS



1 SECURITY ACCESS DTL
3/8" = 1'-0"

MKM architecture + design
435 E. Brackenridge St.
Fort Wayne, Indiana 46802
p 260.422.0783
www.MKMdesign.com

Certification: 09.13.2024 BID SET

ZACHARY R. BENEDICT REGISTERED No. AR11200057 STATE OF INDIANA ARCHITECT

Consultant Logo:

Key Plan:

THE LANDING 3.0

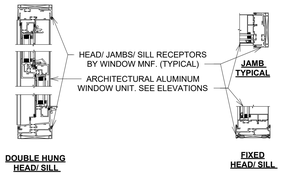
NEW CONSTRUCTION
555 S. HARRISON ST.
Fort Wayne, Indiana 46802

REVISION		
No.	Date	Revision

DRAWING CONTENTS: DOOR SCHEDULE

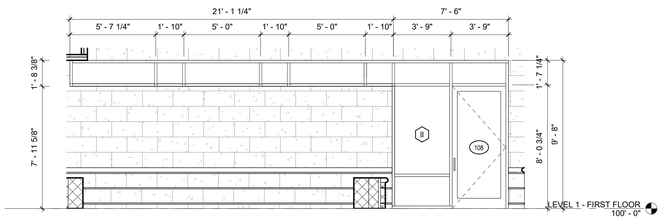
ISSUE DATE: 09.13.2024 | PROJECT NO. 23029

DRAWING NO. A-601

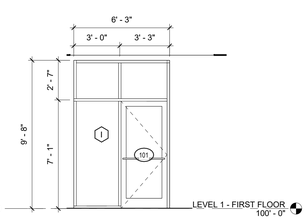


16 ALUMINUM WINDOW DTL.
1 1/2" = 1'-0"

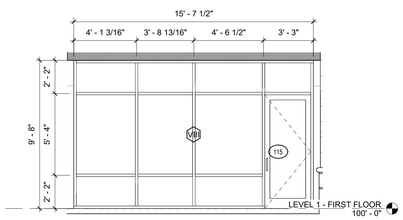
STOREFRONT BASIS OF DESIGN(S)
1. EXTERIOR STOREFRONTS
   - A. KAWNEER 601T, 6" THERMALLY BROKEN STOREFRONT SYSTEM,
   - B. 1" (CLEAR) INSULATED GLAZING (SEE SPEC)
   - C. FACTORY FINISH (GRAY) 70% PFD FINISH.
   - D. THERMALLY BROKEN DOOR ASSEMBLIES
2. INTERIOR STOREFRONTS
   - A. KAWNEER 401, 4 1/2" NON-THERMAL STOREFRONT SYSTEM,
   - B. 1/4" GLAZING
   - C. FACTORY FINISH (GRAY) 70% PVDF FINISH.
   - D. NON-THERMAL BROKEN DOOR ASSEMBLIES



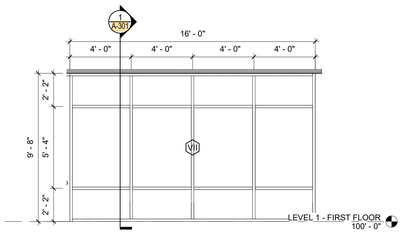
15 STOREFRONT II
1/4" = 1'-0"



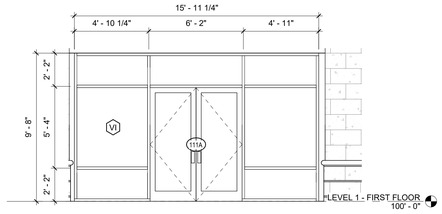
14 STOREFRONT I
1/4" = 1'-0"



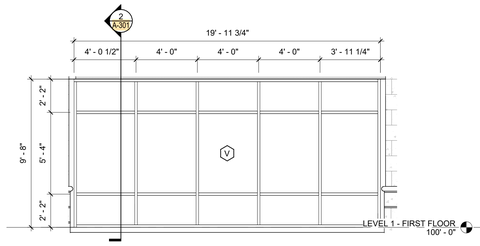
13 STOREFRONT VIII
1/4" = 1'-0"



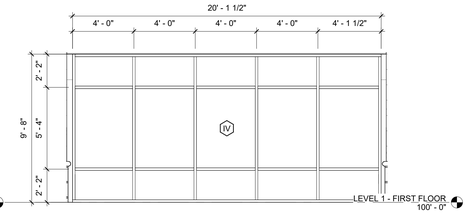
12 STOREFRONT VII
1/4" = 1'-0"



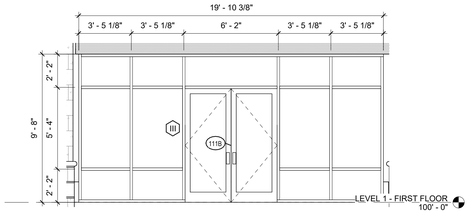
11 STOREFRONT VI
1/4" = 1'-0"



10 STOREFRONT V
1/4" = 1'-0"



9 STOREFRONT IV
1/4" = 1'-0"



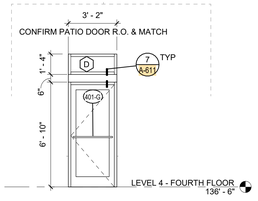
8 STOREFRONT III
1/4" = 1'-0"

WINDOW BASIS OF DESIGN(S):
1. EFCO, HX 32 SINGLE HUNG ALUMINUM WINDOW(S)
2. KAWNEER TR-9100 SINGLE HUNG ALUMINUM WINDOWS

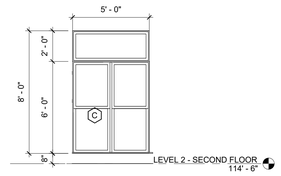
WINDOW D NOTES:
- FIXED TRANSOMS
- ABOVE PATIO DOOR ASSEMBLY SEE DOOR SCHEDULE & DETAILS
- (PAINTED GRAY/ SILVER EXTERIOR & INTERIOR) (STORM GRAY / WARM SILVER)
- U VALUE 0.45 OR LOWER
- PROVIDE ALL UNITS WITH HEAD AND JAMB RECEPTORS (EQUAL TO KAWNEER S-072/ S-071)
- PROVIDE ALL UNITS WITH SILL RECEPTORS (EQUAL TO KAWNEER S-439)

WINDOW A1 / B1 / S1 NOTES:
- PAIR OF SINGLE HUNG WINDOW(S) WITH FIXED TRANSOMS (FACTORY MULLED UNIT)
- (PAINTED GRAY/ SILVER EXTERIOR & INTERIOR) (STORM GRAY / WARM SILVER)
- EGRESS WINDOW OPENING CONTROL DEVISES PER ASTM F2090
- EXTERIOR SCREEN(S)
- SEE ALTERNATE NOTE FOR OFFSET GLAZINGS ON WINDOWS ON NORTH FACADE (DOCK STREET/ RAIL SIDE) U VALUE 0.45 OR LOWER
- U VALUE 0.45 OR LOWER
- PROVIDE ALL UNITS WITH HEAD AND JAMB RECEPTORS (EQUAL TO KAWNEER S-072/ S-071)
- PROVIDE ALL UNITS WITH SILL RECEPTORS (EQUAL TO KAWNEER S-439)

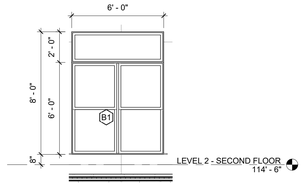
WINDOW A / B NOTES:
- SINGLE HUNG WINDOW(S)
  1. WINDOW B = PAIR OF SINGLE HUNG WINDOWS FACTORY MULLED
- (PAINTED GRAY/ SILVER EXTERIOR & INTERIOR) (STORM GRAY / WARM SILVER)
- EGRESS WINDOW OPENING CONTROL DEVISES PER ASTM F2090
- EXTERIOR SCREEN(S)
- SEE ALTERNATE NOTE FOR OFFSET GLAZINGS ON WINDOWS ON NORTH FACADE (DOCK STREET/ RAIL SIDE) U VALUE 0.45 OR LOWER
- PROVIDE ALL UNITS WITH HEAD AND JAMB RECEPTORS (EQUAL TO KAWNEER S-072/ S-071)
- PROVIDE ALL UNITS WITH SILL RECEPTORS (EQUAL TO KAWNEER S-439)
- AT MASONRY OPENING PROVIDE SCROLL TRIMS AT HEAD & JAMB EQUAL TO: KAWNEEER #11 TRIM & #6 CLIP. SEE JAMB DTL.



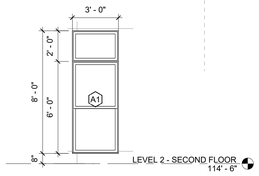
7 WINDOW - D
1/4" = 1'-0"



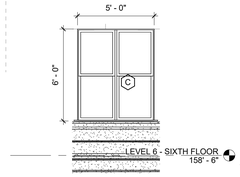
6 WINDOW ELEV - C1
1/4" = 1'-0"



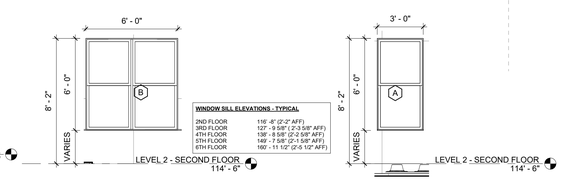
5 WINDOW - B1
1/4" = 1'-0"



4 WINDOW ELEV - A1
1/4" = 1'-0"



3 WINDOW - C
1/4" = 1'-0"



WINDOW SILL ELEVATIONS - TYPICAL

2ND FLOOR	116' -8" (2'-2" AFF)
3RD FLOOR	127' - 9 5/8" (2'-3 5/8" AFF)
4TH FLOOR	138' - 8 5/8" (2'-2 5/8" AFF)
5TH FLOOR	149' - 7 5/8" (2'-1 5/8" AFF)
6TH FLOOR	160' - 11 1/2" (2'-5 1/2" AFF)

2 WINDOW - B
1/4" = 1'-0"

1 WINDOW - A
1/4" = 1'-0"

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Certification: 09.13.2024 BID SET

Consultant Logo:

Key Plan:

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NEW CONSTRUCTION
555 S. HARRISON ST.
Fort Wayne, Indiana 46802

REVISION		
No.	Date	Revision

DRAWING CONTENTS:
WINDOW ELEVATIONS

ISSUE DATE:	PROJECT NO.
09.13.2024	23029

DRAWING NO.
A-610

FIBER CEMENT & ALUMINUM REVEALS GENERAL NOTES:

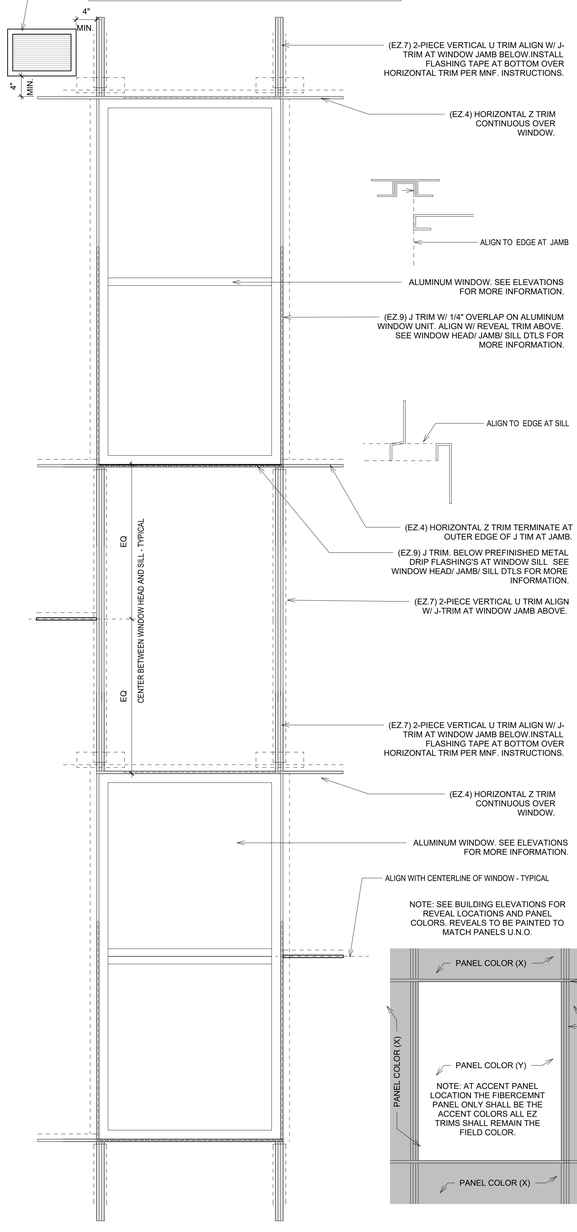
1. ALL EZ-TRIM REVEALS TO BE FACTORY FINISHED TO MATCH SIDINGS. SEE WINDOW TRIM ELEVATION 1/A-*** AND BUILDING ELEVATIONS FOR MORE INFO.
2. ALL EZ-TRIM REVEALS SHALL HAVE SELF ADHERED FLASHING AS INSTRUCTED BY REVEAL MNF.
3. ALL DIMENSIONS SHOWN ON FIBER CEMENT REVEALS IN BUILDING ELEVATIONS ARE FROM CENTERLINE OF A 2-PIECE VERTICAL U TRIM, THE FINISH FACE OF A "J" TRIM AT A WINDOW JAMB, & EDGE OF PANEL AT HORIZONTAL REVEALS. SEE DETAILS ADDITIONAL DIMENSION REFERENCES.
4. ALL FIBER CEMENT PANELS TO BE "SMOOTH" PANEL ,FACTORY PAINTED. SEE ELEVATIONS & SPECIFICATIONS FOR MORE INFO.
5. ALL EXPOSED FIBER CEMENT "CUT ENDS" SHALL BE SEALED PER MNF. INSTRUCTIONS.
6. ALL FIBER CEMENT FASTENERS TO BE INSTALLED IN CONSISTENT PATTERNS WITH NO MORE THAN 1/4" PER 8' IN DEVIATION.
7. ALL FIBER CEMENT FASTENERS SHALL BE DRIVEN FLUSH WITH FACE OF PANEL AND PAINTED TO MATCH PANEL COLOR. FOLLOW MANUFACTURE INSTALLATION INSTRUCTIONS.

TYPICAL EXHAUST LOUVER ELEVATION

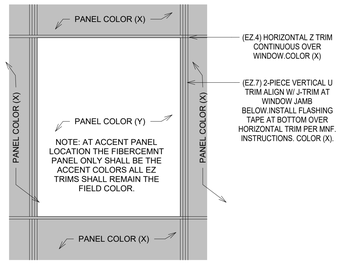
EXHAUST LOUVER NOTES DTL.

- DRYER VENT EXHAUST CAP (S) TO BE LOCATED IN FIELD TO ENSURE 4" MIN. CLEARANCE BETWEEN EDGE OF LOUVERS AND REVEALS. SEE BUILDING ELEVATIONS FOR LOUVER LOCATIONS.
- EXHAUST LOUVER BASIS OF DESIGN: X-VENT BOX: S-SERIES AT SIDING LOCATIONS AND BRS SERIES AT BRICK LOCATIONS.
- ALL EXHAUST LOUVERS ARE TO BE PROVIDED IN WITH BLACK CAVITY BOX COLORS
- ALL LOUVER ASSEMBLIES TO BE COLOR MATCHED TO A SHERWIN WILLIAMS PAINT COLOR SELECTED BY ARCHITECT TO MATCH THE CLADDING MATERIAL THE LOUVER FALLS IN. (3) COLORS WILL EXIST ON PROJECT MATCHING PNL-01, PNL-02, MAS-01.

PRIOR TO ROUGH IN OF ANY EXHAUST DUCTWROK THROUGH WALL GC TO HOLD PRECONSTRUCTION CONFERENCE WITH HVAC CONTRACTOR, MASON AND SIDING CONTRACTOR TO CORIDNATE ROUGH IN LOCATIONS AND HEIGHTS OF DUCTWROK THROUGH WALL TO ENSURE LOUVERS ALIGN WITH BRICK COURSING AS WELL AS SIDING REVEALS AS DETAILED.



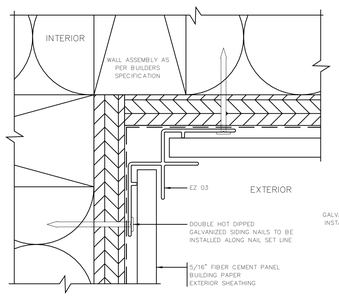
TYPICAL FIBER CEMENT EZ TRIM ELEVATION DTL.



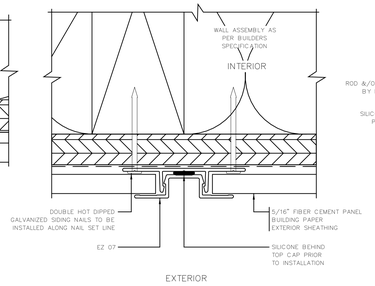
TYPICAL FIBERCEMNT ACCENT PANEL DTL.

4 EZ-TRIM ELEVATION DETAILS

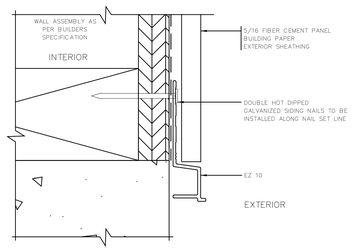
1" = 1'-0"



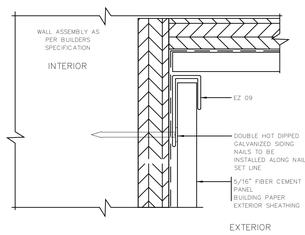
EZ3.1: EX 03 INSIDE CORNER 5/16" TRIM



EZ7.1: EX 07 2-PIECE VERTICAL U 5/16" TRIM



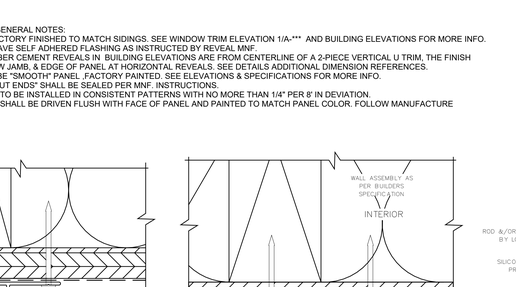
EZ10.1: EZ 10 HORIZONTAL BASE B STARTER 5/16" TRIM



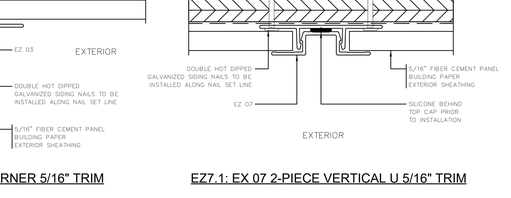
EZ9.1: EX 09 J 5/16" TRIM

3 EZ-TRIM DTL.

12" = 1'-0"



MASONRY HEAD @ WINDOW



JAMB @ MASONRY

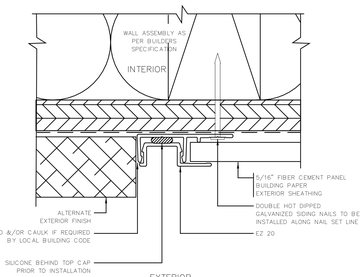
SILL @ MASONRY

1 WINDOW DTL.

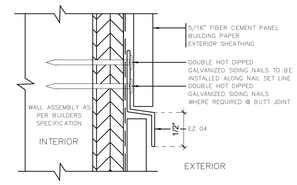
1 1/2" = 1'-0"

WINDOW FLASHING NOTES:

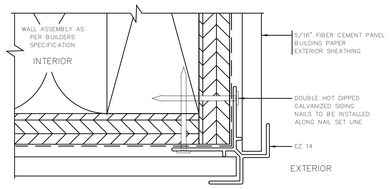
1. INSTALL SELF ADHERING WINDOW FLASHING AT HEAD/ JAMB/ SILLS, EXTENDING FULL DEPTH OF STUD CAVITY, PER BUILDING WRAP MNF. STANDARD INSTALLATION INSTRUCTIONS.
2. PROVIDE FLASHING TAPES AT ALL THROUGH WALL FLASHING PER MNF. STANDARD INSTALLATION INSTRUCTIONS.
3. PROVIDE FLASHING TAPES AT EXTRUDED ALUMINUM REVEAL PER MNF. STANDARD INSTALLATION INSTRUCTIONS.
4. REFER TO BUILDING WALL SECTIONS FOR WALL COMPOSITION
5. PROVIDE CONTINUOUS SEALANT JOINT AROUND ALL INTERIOR FINISH WINDOW CONDITIONS. SEALANT TO BE CLEAR OR COLOR MATCHED TO SILL.
6. SEEEZ-TRIM ELEVATION DETAIL FOR MORE INFO ON EZ-TRI ALIGNMENT



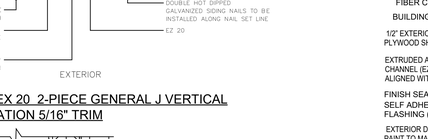
EZ20.1: EX 20 2-PIECE GENERAL J VERTICAL TERMINATION 5/16" TRIM



EZ4.2: EX 04 HORIZONTAL Z INTERMEDIATE 5/16" TRIM



EZ14.1: EZ 14 X OUTSIDE CORNER 5/16" TRIM



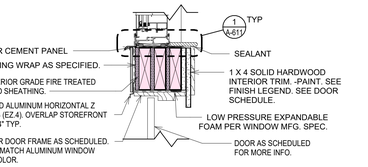
HEAD @ FIBER CEMENT

JAMB @ FIBER CEMENT

SILL @ FIBER CEMENT

6 DOOR FRAME DTL.

1 1/2" = 1'-0"



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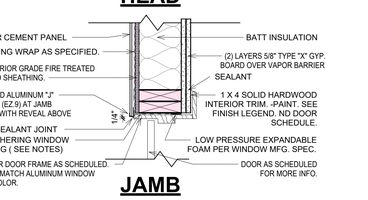
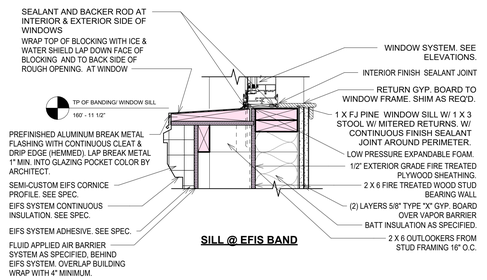


JAMB

7 PATIO DOOR HEAD/ JAMB DTL.

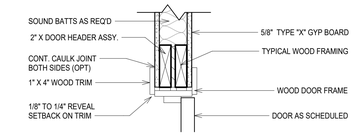
1 1/2" = 1'-0"



SILL @ EFIS BAND

5 SILL @ EFIS BAND

1 1/2" = 1'-0"



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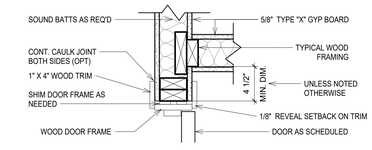
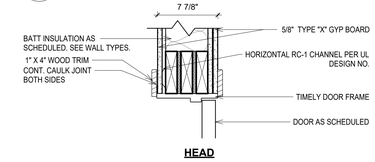


JAMB

INTERIOR WOOD DOOR FRAME (TYPICAL)

6 DOOR FRAME DTL.

1 1/2" = 1'-0"



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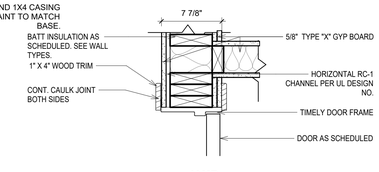

JAMB

WOOD STUD - INTERIOR TIMELY DOOR FRAME (TYPICAL)

2 DOOR FRAME DTL.

1 1/2" = 1'-0"

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Key Plan:

THE LANDING 3.0

NEW CONSTRUCTION
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REVISION		
No.	Date	Revision

DRAWING CONTENTS:
WINDOW / EZ-TRIM DETAILS

ISSUE DATE: 09.13.2024
PROJECT NO. 23029

DRAWING NO.
A-611

Plot Time/Date: 9/12/2024 2:51:10 PM
Drawing Name: Template.rvt

PLUMBING KEYED SHEET NOTES

1. VENT PIPING UP TO LEVEL ABOVE
2. SANITARY PIPING UP TO LEVEL ABOVE
3. SANITARY PIPING DOWN TO LEVEL BELOW
4. COLD WATER PIPING UP TO LEVEL ABOVE
5. COLD WATER PIPING DOWN TO LEVEL BELOW
6. PROVIDE 3/4" TAB METER FOR DOMESTIC WATER IN EACH RESIDENTIAL UNIT
7. PROVIDE 1" TAB METER FOR DOMESTIC WATER FOR EACH TENANT SPACE
8. EXTEND 1-1/2" FORCE MAIN PIPING AND DISCHARGE INDIRECTLY TO FD
9. STORM PIPING UP TO ROOF DRAIN
10. OVERFLOW DRAIN PIPING NOZZLE LOCATED BELOW ROOF LINE, COORDINATE EXACT MOUNTING HEIGHT WITH ARCHITECTURAL DRAWINGS
11. STORM PIPING DOWN TO LEVEL BELOW
12. NEW GAS SERVICE PIPING AND METER FOR FUTURE TENANT SPACE, REFER TO CIVIL UTILITY PLAN FOR CONTINUATION
13. NEW DOMESTIC SERVICE PIPING, REFER TO CIVIL UTILITY PLAN FOR CONTINUATION
14. NEW SANITARY PIPING, REFER TO CIVIL UTILITY PLAN FOR CONTINUATION
15. NEW STORM PIPING, REFER TO CIVIL UTILITY PLAN FOR CONTINUATION
16. SANITARY STUB FOR FUTURE TENANT SPACE
17. WATER HEATER TO BE MOUNTED ON PLATFORM ABOVE MOP SINK
18. VENT STUB FOR FUTURE TENANT SPACE

PLUMBING GENERAL NOTES

A. THE CONTRACTOR SHALL CONTACT THE ARCHITECT, ENGINEER OR OWNER PRIOR TO BIDDING FOR INTERPRETATIONS AND CLARIFICATIONS OF THE DESIGN AND INCLUDE IN HIS BID ALL COSTS TO MEET THE DESIGN INTENT.

B. DESIGN DRAWINGS ARE SCHEMATIC. CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING OR AWARD OF CONTRACT TO INSPECT EXISTING FIELD CONDITIONS. CONTRACT SHALL INCLUDE ALL LABOR AND MATERIALS NECESSARY FOR REQUIRED FIELD MODIFICATIONS DUE TO EXISTING CONDITIONS.

C. BIDDING CONTRACTORS SHALL HAVE A WORKING KNOWLEDGE OF LOCAL CODES AND ORDINANCES AND SHALL INCLUDE IN THEIR BIDS THE COSTS FOR ALL WORK INSTALLED IN STRICT ACCORDANCE WITH GOVERNING CODES, THE PLANS AND SPECIFICATIONS NOT WITHSTANDING. THE CONTRACTOR SHALL ALERT ARCHITECT, ENGINEER OR OWNER OF ANY APPARENT DISCREPANCIES BETWEEN GOVERNING CODES AND DESIGN INTENT.

D. PROVIDE POINT-OF-USE THERMOSTATIC MIXING VALVES ON ALL PUBLIC LAVATORIES AND HAND SINKS. VALVES SHALL MEET ASSE 1070 AND SHALL BE EQUAL TO WATTS USG-B.

E. PROVIDE SQUARE STRAINERS ON FLOOR DRAINS IN TILED AREAS.

F. REFER TO ARCHITECT'S PLANS AND ELEVATIONS FOR ALL FIXTURE MOUNTING HEIGHTS.

G. PROVIDE ALL LABOR, MATERIAL, AND EQUIPMENT NECESSARY TO COMPLETELY FURNISH, INSTALL, AND PLACE INTO OPERATION, ALL SYSTEMS SHOWN ON THE DRAWINGS AND DELINEATED IN THE SPECIFICATIONS IN ACCORDANCE WITH ALL STATE AND LOCAL CODES AND ORDINANCES. REPORT ANY KNOWN DISCREPANCIES TO THE ARCHITECT/ENGINEER PRIOR TO INSTALLATION.

H. COORDINATE ALL WORK AND SPACE REQUIREMENTS IN CEILING SPACES WITH OTHER TRADES PRIOR TO INSTALLATION; INCLUDING BUT NOT LIMITED TO: ARCHITECTURAL, CIVIL, STRUCTURAL, ELECTRICAL, FIRE PROTECTION, AND MECHANICAL.

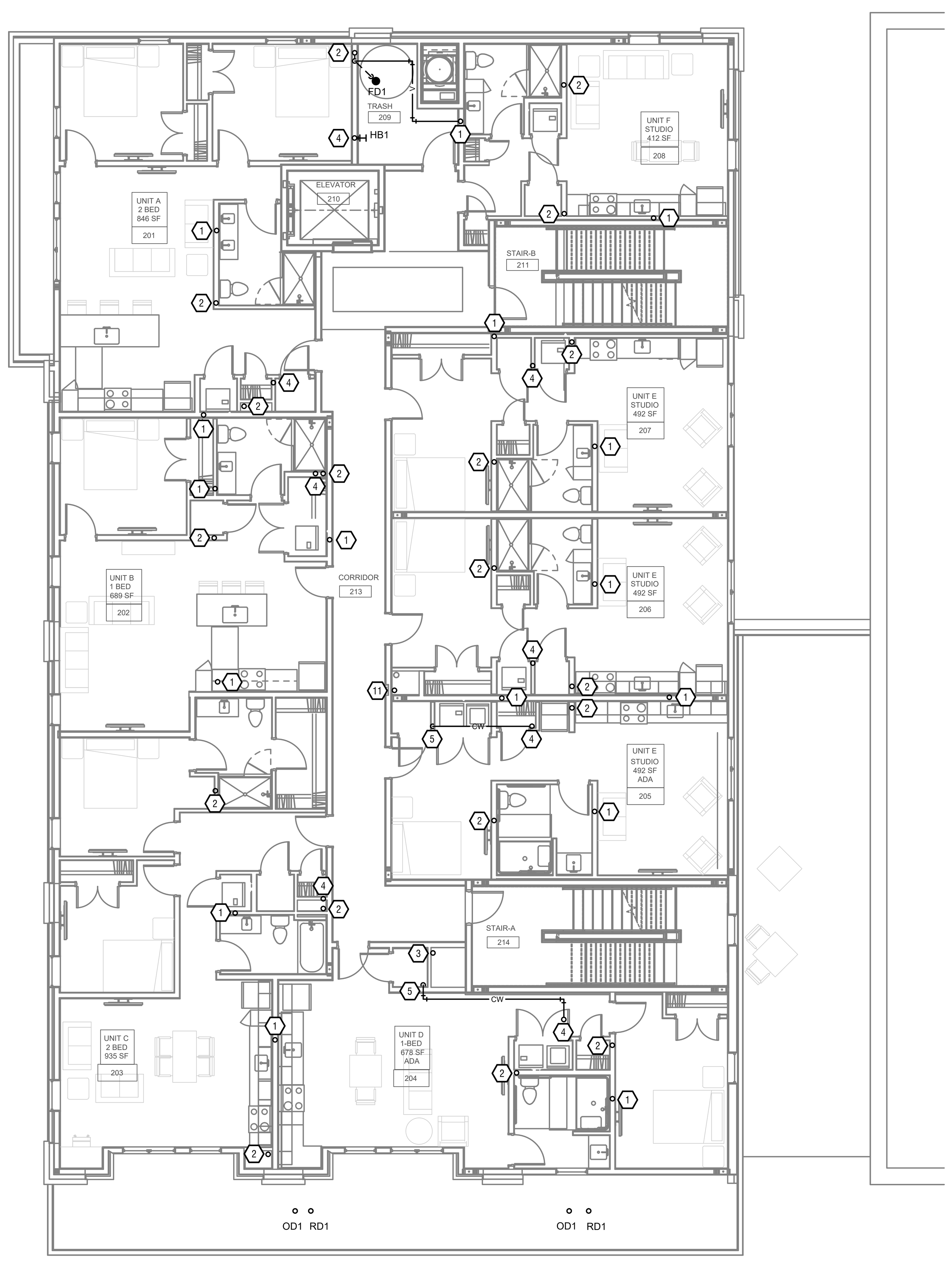
I. INSTALL ALL EQUIPMENT WITH CODE REQUIRED AND MANUFACTURER RECOMMENDED MINIMUM CLEARANCES FOR SERVICE, ACCESS, AND FIRE PROTECTION.

J. MAINTAIN A MINIMUM OF 10 FEET BETWEEN ALL OUTSIDE AIR INTAKES AND ALL EXHAUST, VENT, AND FLUE OUTLETS.

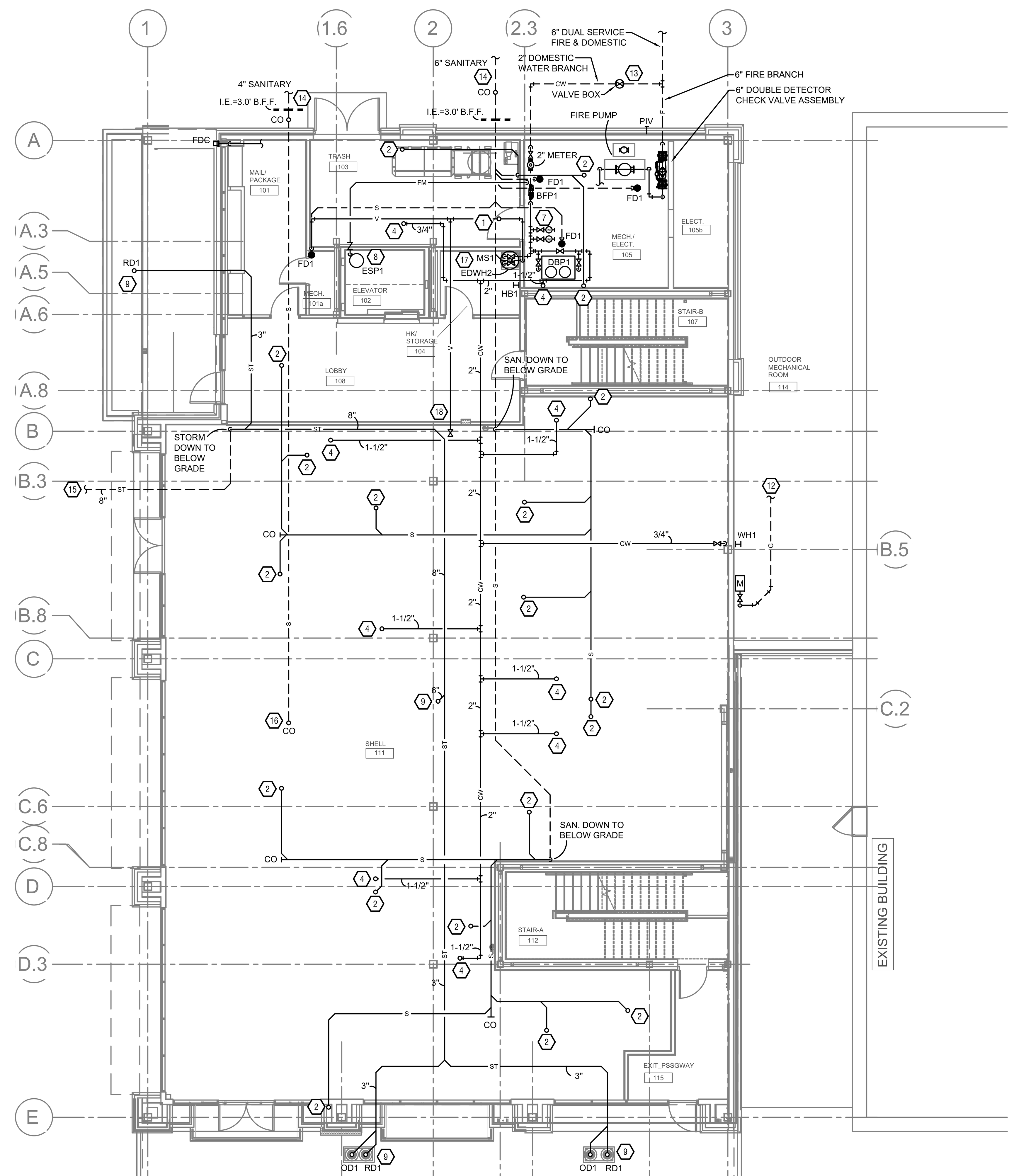
K. WATER PIPING IN AREAS SUBJECT TO FREEZING TEMPERATURES WILL NOT BE PERMITTED WITHOUT PROVIDING FROST PROOF PROTECTION.

L. MAKE FINAL CONNECTION TO OWNER SUPPLIED EQUIPMENT.

M. WHEREVER FIXTURES REQUIRING PLUMBING CONNECTIONS ARE FURNISHED BY OWNER OR ARE RELOCATED, PLUMBING SUBCONTRACTOR SHALL FURNISH AND INSTALL CARRIERS, "P" TRAP AND STOPS.



2 P-100 PLUMBING & FIRE PROTECTION SECOND FLOOR PLAN
SCALE: 1/8" = 1'-0"



1 P-100 PLUMBING AND FIRE PROTECTION FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"

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Consultant Logo:
BID SET
09.13.2024

Key Plan:

PR - 10665

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Newport, KY 41071 (859) 261-0585
MEP Consulting Services, Inc. in OH

THE LANDING 3.0

NEW CONSTRUCTION
Columbia St., Indiana

REVISION		
No.	Date	Revision

DRAWING CONTENTS:
PLUMBING FIRST & SECOND FLOOR PLAN

ISSUE DATE:	PROJECT NO.
09-03-24	10665

DRAWING NO.
P-100

PLUMBING GENERAL NOTES

A. THE CONTRACTOR SHALL CONTACT THE ARCHITECT, ENGINEER OR OWNER PRIOR TO BIDDING FOR INTERPRETATIONS AND CLARIFICATIONS OF THE DESIGN AND INCLUDE IN HIS BID ALL COSTS TO MEET THE DESIGN INTENT.

B. DESIGN DRAWINGS ARE SCHEMATIC. CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING OR AWARD OF CONTRACT TO INSPECT EXISTING FIELD CONDITIONS. CONTRACT SHALL INCLUDE ALL LABOR AND MATERIALS NECESSARY FOR REQUIRED FIELD MODIFICATIONS DUE TO EXISTING CONDITIONS.

C. BIDDING CONTRACTORS SHALL HAVE A WORKING KNOWLEDGE OF LOCAL CODES AND ORDINANCES AND SHALL INCLUDE IN THEIR BIDS THE COSTS FOR ALL WORK INSTALLED IN STRICT ACCORDANCE WITH GOVERNING CODES, THE PLANS AND SPECIFICATIONS NOT WITHSTANDING. THE CONTRACTOR SHALL ALERT ARCHITECT, ENGINEER OR OWNER OF ANY APPARENT DISCREPANCIES BETWEEN GOVERNING CODES AND DESIGN INTENT.

D. PROVIDE POINT-OF-USE THERMOSTATIC MIXING VALVES ON ALL PUBLIC LAVATORIES AND HAND SINKS. VALVES SHALL MEET ASSE 1070 AND SHALL BE EQUAL TO WATTS USG-B.

E. PROVIDE SQUARE STRAINERS ON FLOOR DRAINS IN TILED AREAS.

F. REFER TO ARCHITECT'S PLANS AND ELEVATIONS FOR ALL FIXTURE MOUNTING HEIGHTS.

G. PROVIDE ALL LABOR, MATERIAL, AND EQUIPMENT NECESSARY TO COMPLETELY FURNISH, INSTALL, AND PLACE INTO OPERATION, ALL SYSTEMS SHOWN ON THE DRAWINGS AND DELINEATED IN THE SPECIFICATIONS IN ACCORDANCE WITH ALL STATE AND LOCAL CODES AND ORDINANCES. REPORT ANY KNOWN DISCREPANCIES TO THE ARCHITECT/ENGINEER PRIOR TO INSTALLATION.

H. COORDINATE ALL WORK AND SPACE REQUIREMENTS IN CEILING SPACES WITH OTHER TRADES PRIOR TO INSTALLATION; INCLUDING BUT NOT LIMITED TO: ARCHITECTURAL, CIVIL, STRUCTURAL, ELECTRICAL, FIRE PROTECTION, AND MECHANICAL.

I. INSTALL ALL EQUIPMENT WITH CODE REQUIRED AND MANUFACTURER RECOMMENDED MINIMUM CLEARANCES FOR SERVICE, ACCESS, AND FIRE PROTECTION.

J. MAINTAIN A MINIMUM OF 10 FEET BETWEEN ALL OUTSIDE AIR INTAKES AND ALL EXHAUST, VENT, AND FLUE OUTLETS.

K. WATER PIPING IN AREAS SUBJECT TO FREEZING TEMPERATURES WILL NOT BE PERMITTED WITHOUT PROVIDING FROST PROOF PROTECTION.

L. MAKE FINAL CONNECTION TO OWNER SUPPLIED EQUIPMENT.

M. WHEREVER FIXTURES REQUIRING PLUMBING CONNECTIONS ARE FURNISHED BY OWNER OR ARE RELOCATED, PLUMBING SUBCONTRACTOR SHALL FURNISH AND INSTALL CARRIERS, "P" TRAP AND STOPS.

PLUMBING KEYED SHEET NOTES

1. VENT PIPING UP TO LEVEL ABOVE
2. SANITARY PIPING UP TO LEVEL ABOVE
3. SANITARY PIPING DOWN TO LEVEL BELOW
4. COLD WATER PIPING UP TO LEVEL ABOVE
5. COLD WATER PIPING DOWN TO LEVEL BELOW
6. PROVIDE 3/4" TAB METER FOR DOMESTIC WATER IN EACH RESIDENTIAL UNIT
7. PROVIDE 1" TAB METER FOR DOMESTIC WATER FOR EACH TENANT SPACE
8. EXTEND 1-1/2" FORCE MAIN PIPING AND DISCHARGE INDIRECTLY TO FD
9. STORM PIPING UP TO ROOF DRAIN
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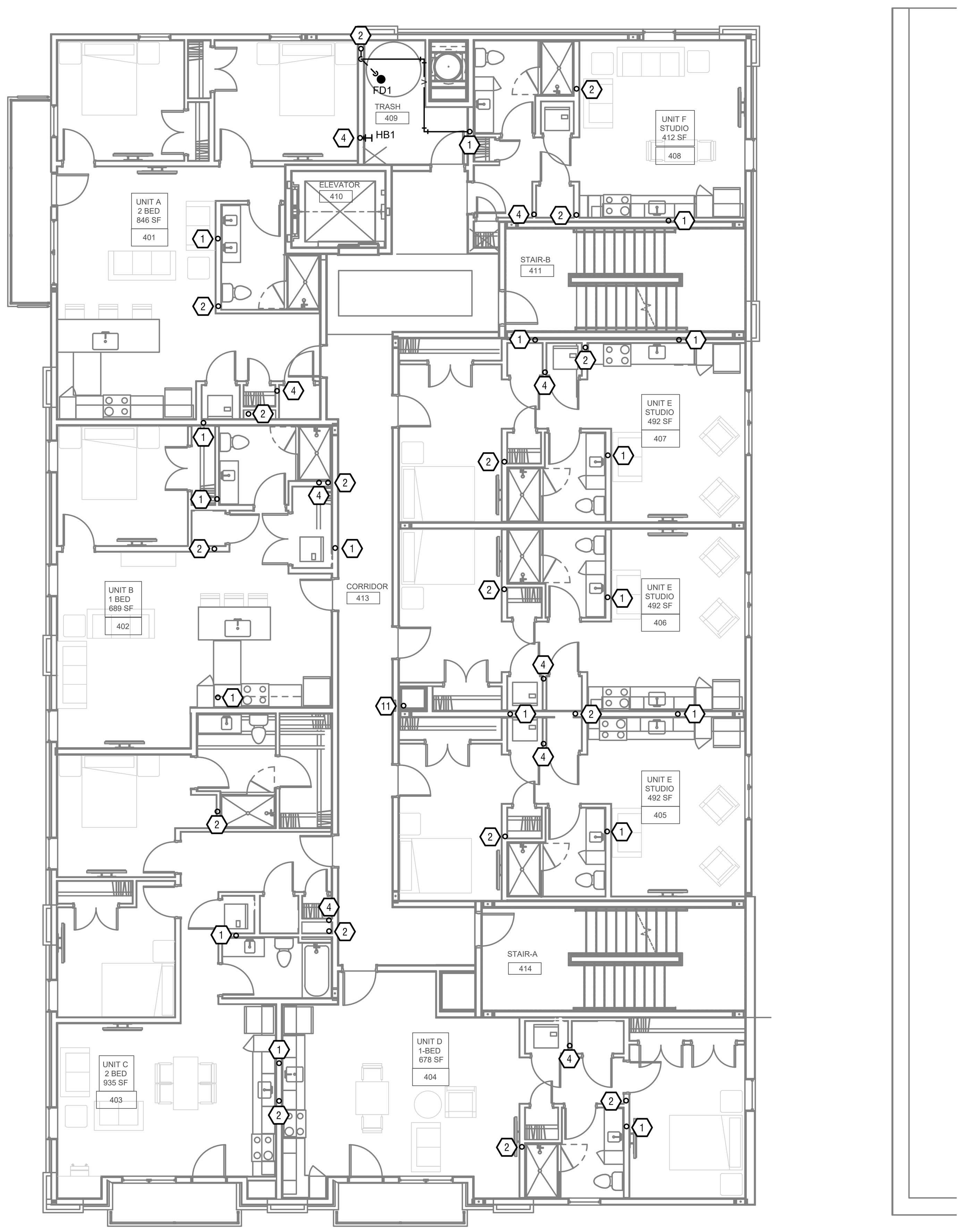
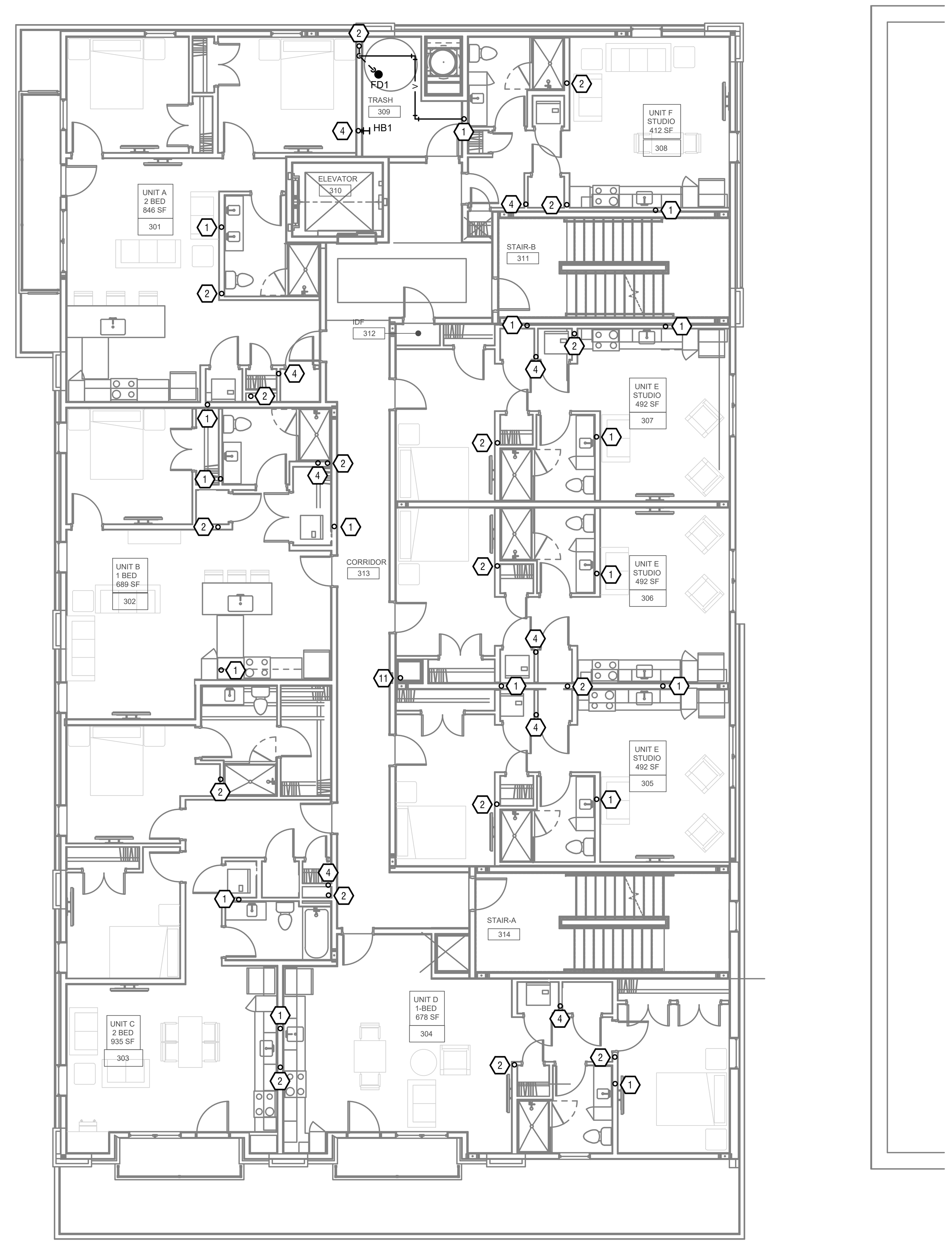
12. NEW GAS SERVICE PIPING AND METER FOR FUTURE TENANT SPACE, REFER TO CIVIL UTILITY PLAN FOR CONTINUATION
13. NEW DOMESTIC SERVICE PIPING, REFER TO CIVIL UTILITY PLAN FOR CONTINUATION
14. NEW SANITARY PIPING, REFER TO CIVIL UTILITY PLAN FOR CONTINUATION
15. NEW STORM PIPING, REFER TO CIVIL UTILITY PLAN FOR CONTINUATION
16. SANITARY STUB FOR FUTURE TENANT SPACE
17. WATER HEATER TO BE MOUNTED ON PLATFORM ABOVE MOP SINK
18. VENT STUB FOR FUTURE TENANT SPACE



2 P-101 PLUMBING FOURTH FLOOR PLAN

SCALE: 1/8" = 1'-0"



1 P-101 PLUMBING THIRD FLOOR PLAN

SCALE: 1/8" = 1'-0"

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THE LANDING 3.0

NEW CONSTRUCTION
Columbia St., Indiana

REVISION

No.	Date	Revision

DRAWING CONTENTS:
PLUMBING THIRD & FOURTH FLOOR PLAN

ISSUE DATE:	PROJECT NO:
09-03-24	10665

DRAWING NO:
P-101

PLUMBING GENERAL NOTES

A. THE CONTRACTOR SHALL CONTACT THE ARCHITECT, ENGINEER OR OWNER PRIOR TO BIDDING FOR INTERPRETATIONS AND CLARIFICATIONS OF THE DESIGN AND INCLUDE IN HIS BID ALL COSTS TO MEET THE DESIGN INTENT.

B. DESIGN DRAWINGS ARE SCHEMATIC. CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING OR AWARD OF CONTRACT TO INSPECT EXISTING FIELD CONDITIONS. CONTRACT SHALL INCLUDE ALL LABOR AND MATERIALS NECESSARY FOR REQUIRED FIELD MODIFICATIONS DUE TO EXISTING CONDITIONS.

C. BIDDING CONTRACTORS SHALL HAVE A WORKING KNOWLEDGE OF LOCAL CODES AND ORDINANCES AND SHALL INCLUDE IN THEIR BIDS THE COSTS FOR ALL WORK INSTALLED IN STRICT ACCORDANCE WITH GOVERNING CODES, THE PLANS AND SPECIFICATIONS NOT WITHSTANDING. THE CONTRACTOR SHALL ALERT ARCHITECT, ENGINEER OR OWNER OF ANY APPARENT DISCREPANCIES BETWEEN GOVERNING CODES AND DESIGN INTENT.

D. PROVIDE POINT-OF-USE THERMOSTATIC MIXING VALVES ON ALL PUBLIC LAVATORIES AND HAND SINKS. VALVES SHALL MEET ASSE 1070 AND SHALL BE EQUAL TO WATTS USG-B.

E. PROVIDE SQUARE STRAINERS ON FLOOR DRAINS IN TILED AREAS.

F. REFER TO ARCHITECT'S PLANS AND ELEVATIONS FOR ALL FIXTURE MOUNTING HEIGHTS.

G. PROVIDE ALL LABOR, MATERIAL, AND EQUIPMENT NECESSARY TO COMPLETELY FURNISH, INSTALL, AND PLACE INTO OPERATION, ALL SYSTEMS SHOWN ON THE DRAWINGS AND DELINEATED IN THE SPECIFICATIONS IN ACCORDANCE WITH ALL STATE AND LOCAL CODES AND ORDINANCES. REPORT ANY KNOWN DISCREPANCIES TO THE ARCHITECT/ENGINEER PRIOR TO INSTALLATION.

H. COORDINATE ALL WORK AND SPACE REQUIREMENTS IN CEILING SPACES WITH OTHER TRADES PRIOR TO INSTALLATION; INCLUDING BUT NOT LIMITED TO: ARCHITECTURAL, CIVIL, STRUCTURAL, ELECTRICAL, FIRE PROTECTION, AND MECHANICAL.

I. INSTALL ALL EQUIPMENT WITH CODE REQUIRED AND MANUFACTURER RECOMMENDED MINIMUM CLEARANCES FOR SERVICE, ACCESS, AND FIRE PROTECTION.

J. MAINTAIN A MINIMUM OF 10 FEET BETWEEN ALL OUTSIDE AIR INTAKES AND ALL EXHAUST, VENT, AND FLUE OUTLETS.

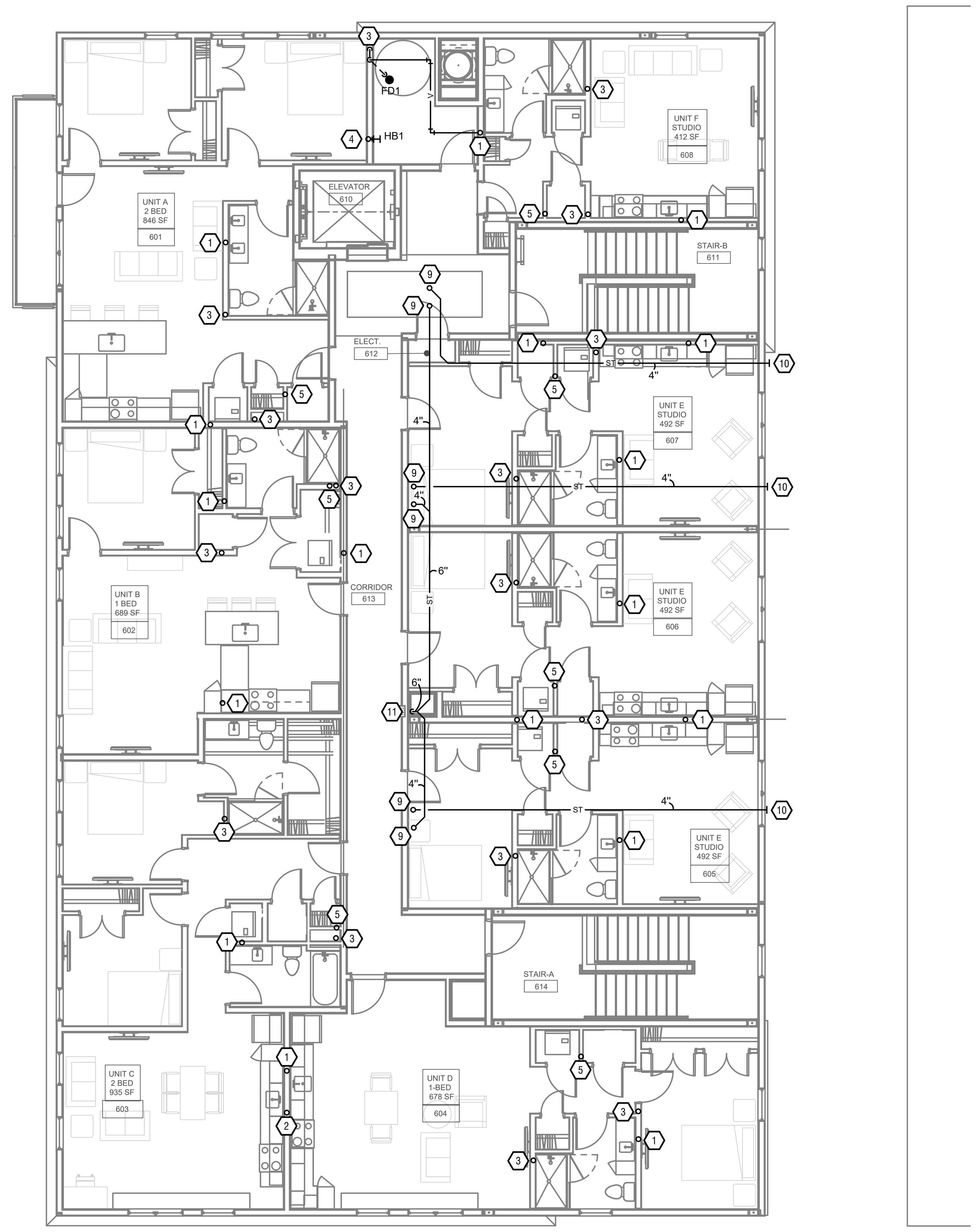
K. WATER PIPING IN AREAS SUBJECT TO FREEZING TEMPERATURES WILL NOT BE PERMITTED WITHOUT PROVIDING FROST PROOF PROTECTION.

L. MAKE FINAL CONNECTION TO OWNER SUPPLIED EQUIPMENT.

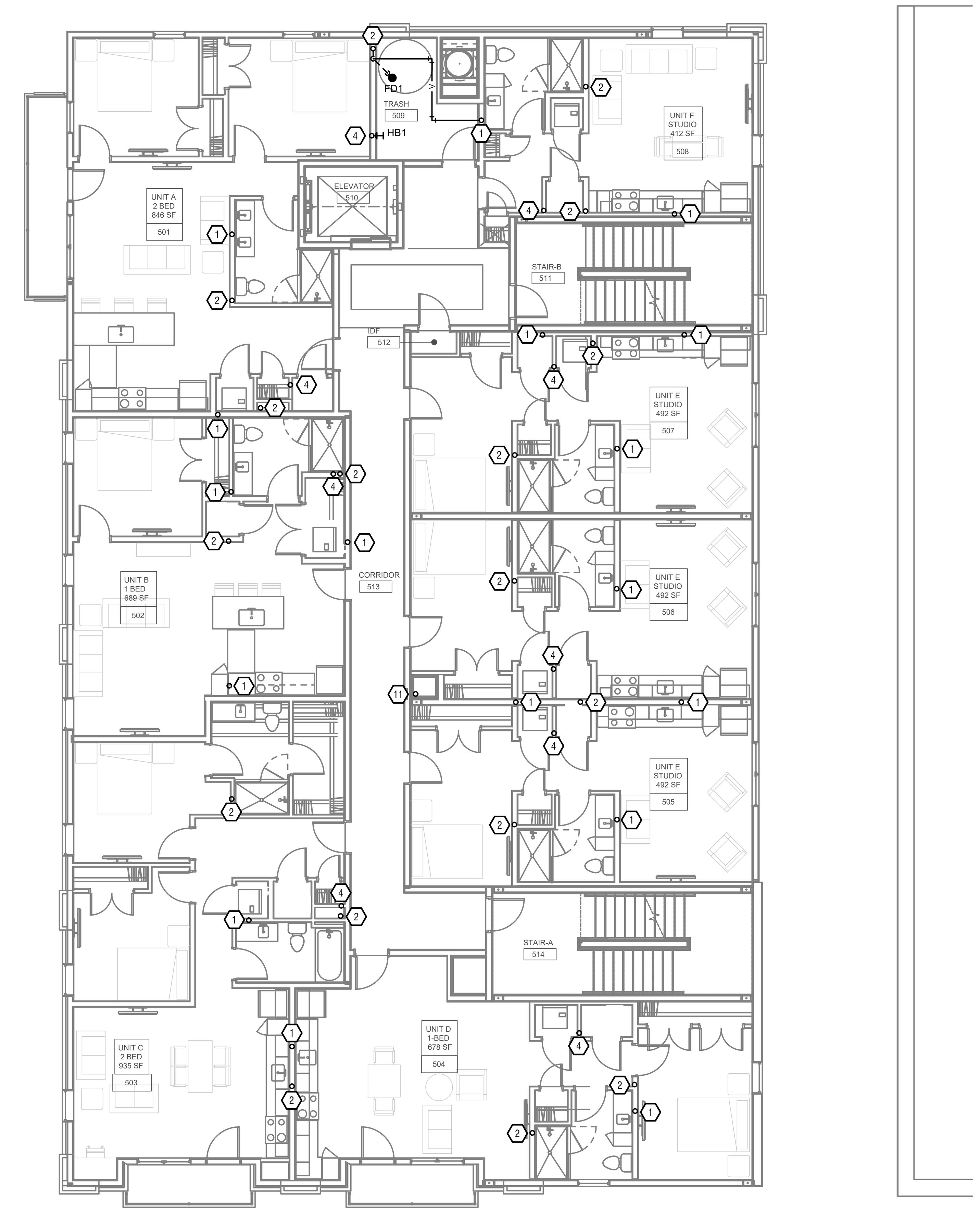
M. WHEREVER FIXTURES REQUIRING PLUMBING CONNECTIONS ARE FURNISHED BY OWNER OR ARE RELOCATED, PLUMBING SUBCONTRACTOR SHALL FURNISH AND INSTALL CARRIERS, "P" TRAP AND STOPS.

PLUMBING KEYED SHEET NOTES

1. VENT PIPING UP TO LEVEL ABOVE
2. SANITARY PIPING UP TO LEVEL ABOVE
3. SANITARY PIPING DOWN TO LEVEL BELOW
4. COLD WATER PIPING UP TO LEVEL ABOVE
5. COLD WATER PIPING DOWN TO LEVEL BELOW
6. PROVIDE 3/4" TAB METER FOR DOMESTIC WATER IN EACH RESIDENTIAL UNIT
7. PROVIDE 1" TAB METER FOR DOMESTIC WATER FOR EACH TENANT SPACE
8. EXTEND 1-1/2" FORCE MAIN PIPING AND DISCHARGE INDIRECTLY TO FD
9. STORM PIPING UP TO ROOF DRAIN
10. OVERFLOW DRAIN PIPING NOZZLE LOCATED BELOW ROOF LINE, COORDINATE EXACT MOUNTING HEIGHT WITH ARCHITECTURAL DRAWINGS
11. STORM PIPING DOWN TO LEVEL BELOW
12. NEW GAS SERVICE PIPING AND METER FOR FUTURE TENANT SPACE, REFER TO CIVIL UTILITY PLAN FOR CONTINUATION
13. NEW DOMESTIC SERVICE PIPING, REFER TO CIVIL UTILITY PLAN FOR CONTINUATION
14. NEW SANITARY PIPING, REFER TO CIVIL UTILITY PLAN FOR CONTINUATION
15. NEW STORM PIPING, REFER TO CIVIL UTILITY PLAN FOR CONTINUATION
16. SANITARY STUB FOR FUTURE TENANT SPACE
17. WATER HEATER TO BE MOUNTED ON PLATFORM ABOVE MOP SINK
18. VENT STUB FOR FUTURE TENANT SPACE



2 P-102 PLUMBING SIXTH FLOOR PLAN
SCALE: 1/8" = 1'-0"



1 P-102 PLUMBING FIFTH FLOOR PLAN
SCALE: 1/8" = 1'-0"

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THE LANDING 3.0

NEW CONSTRUCTION
Columbia St., Indiana

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PLUMBING FIFTH & SIXTH FLOOR PLAN

ISSUE DATE: 09-03-24
PROJECT NO. 10665

DRAWING NO.
P-102

PLUMBING KEYED SHEET NOTES

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2. SANITARY PIPING UP TO LEVEL ABOVE
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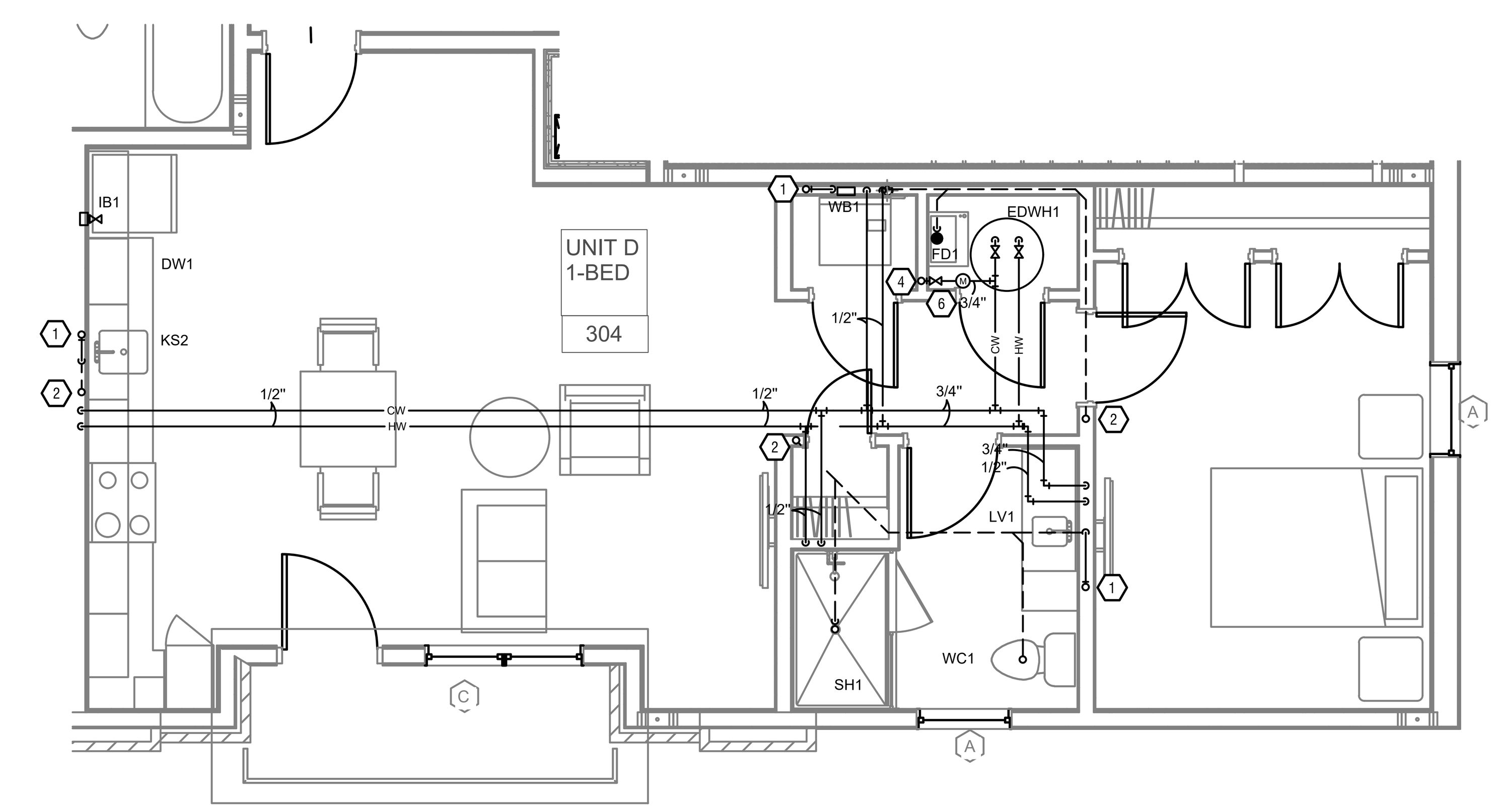

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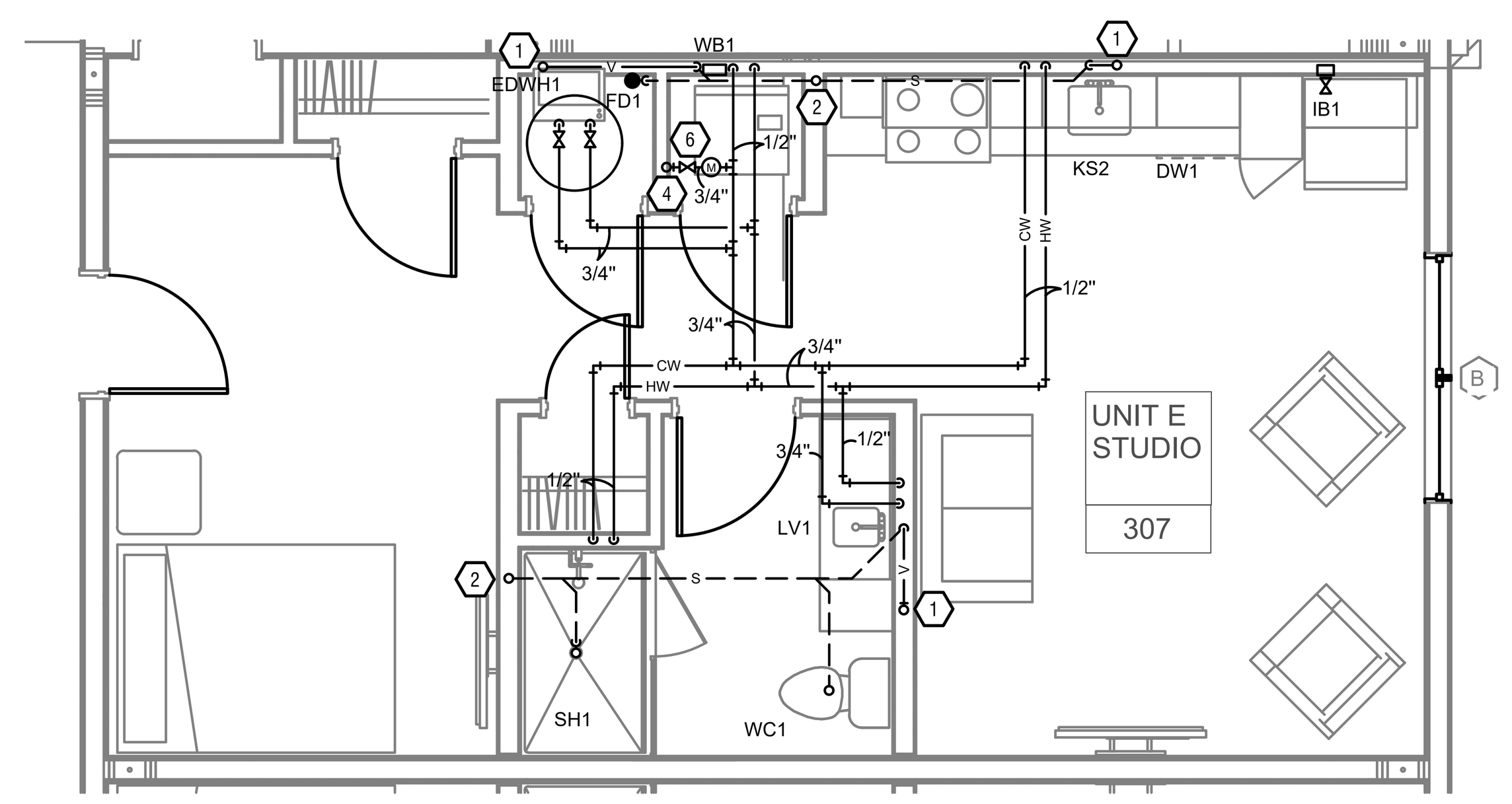

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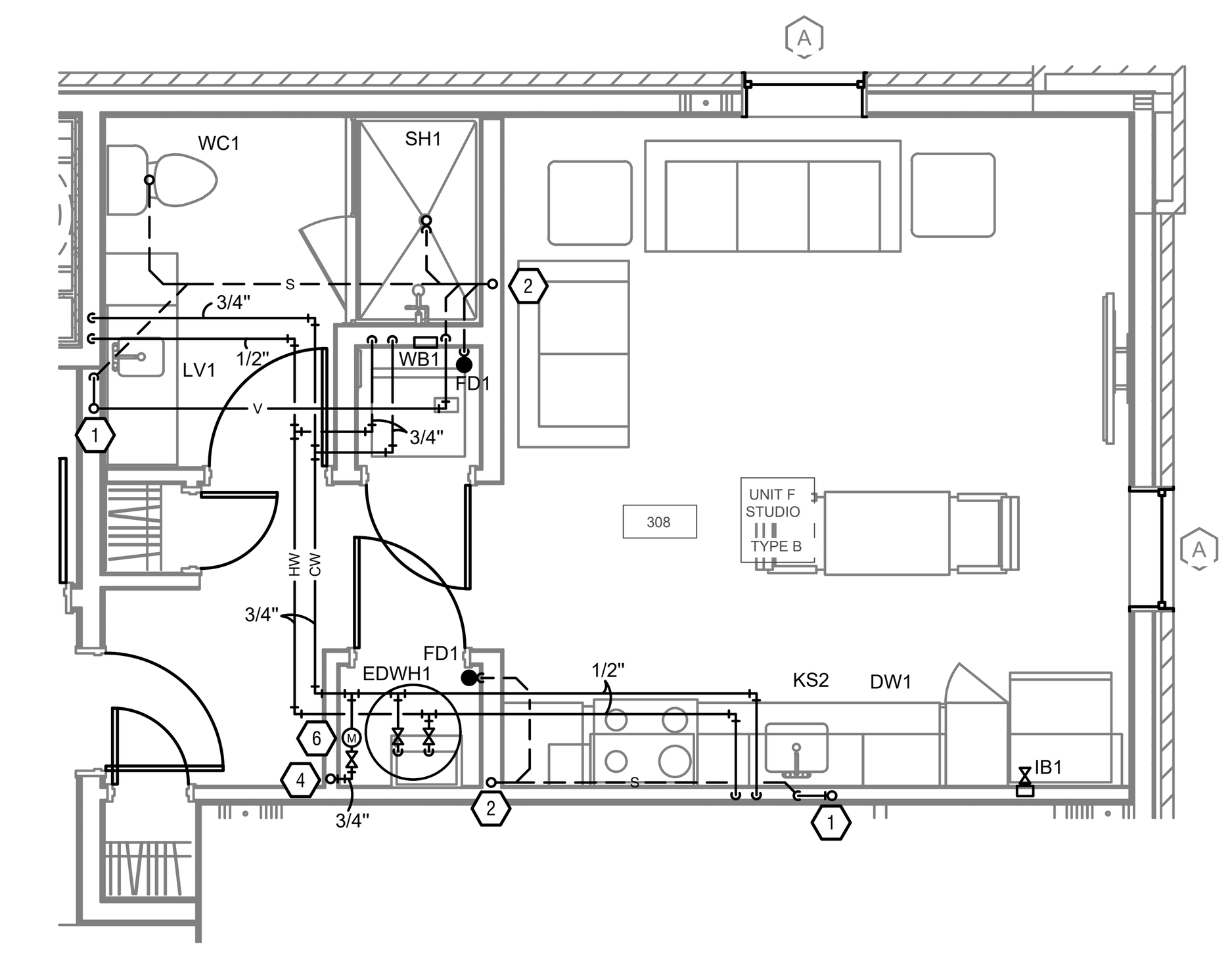

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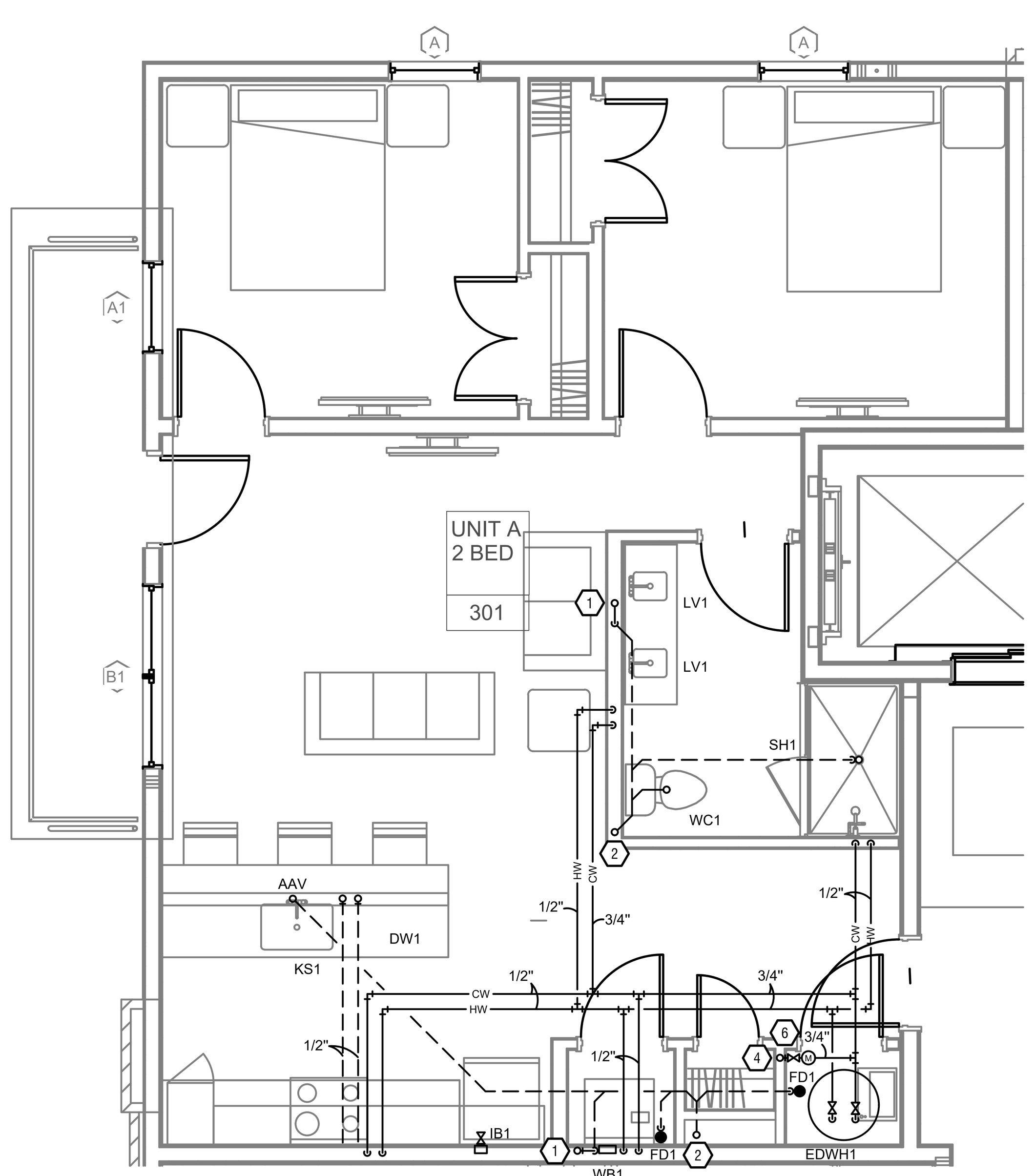

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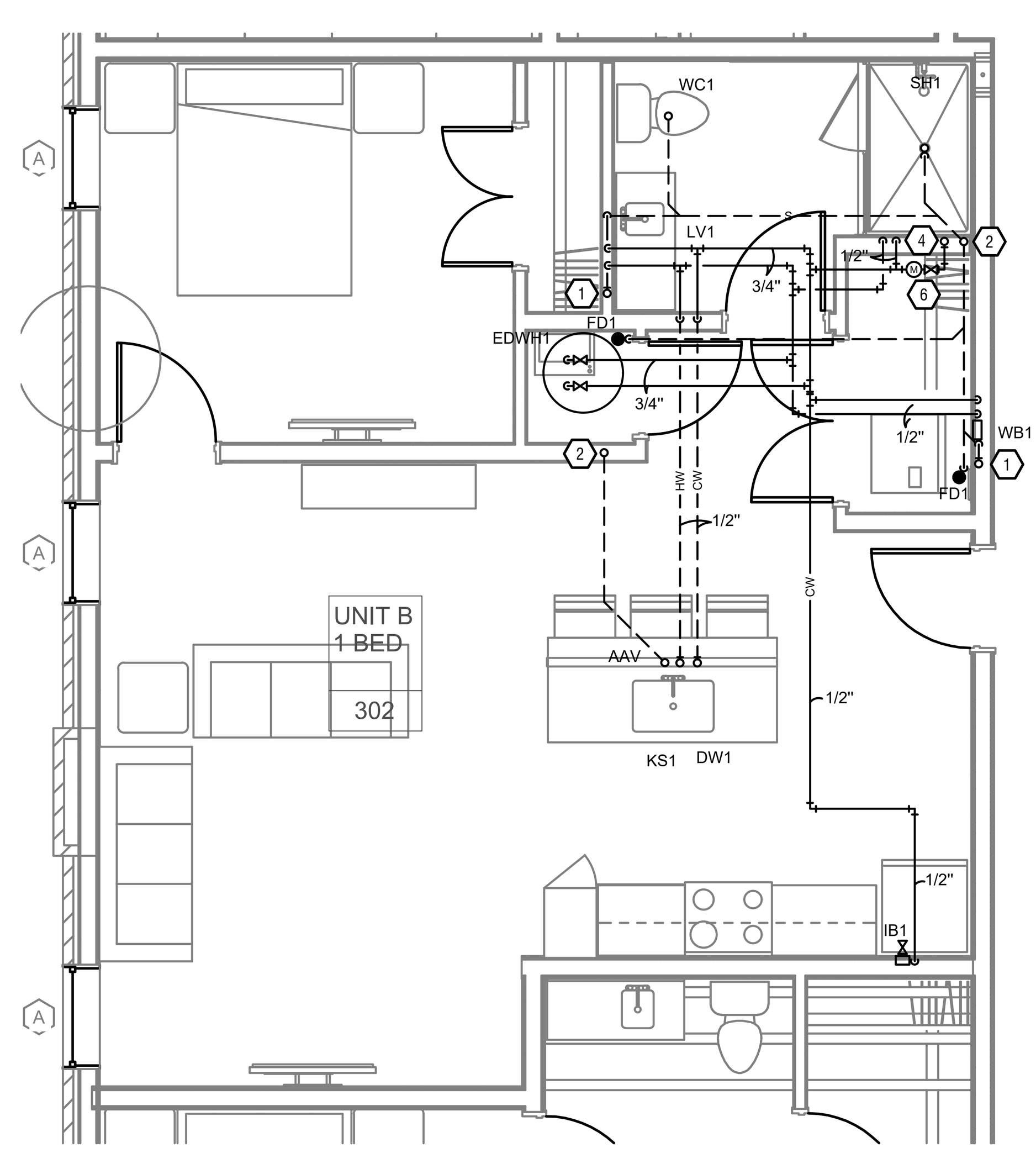

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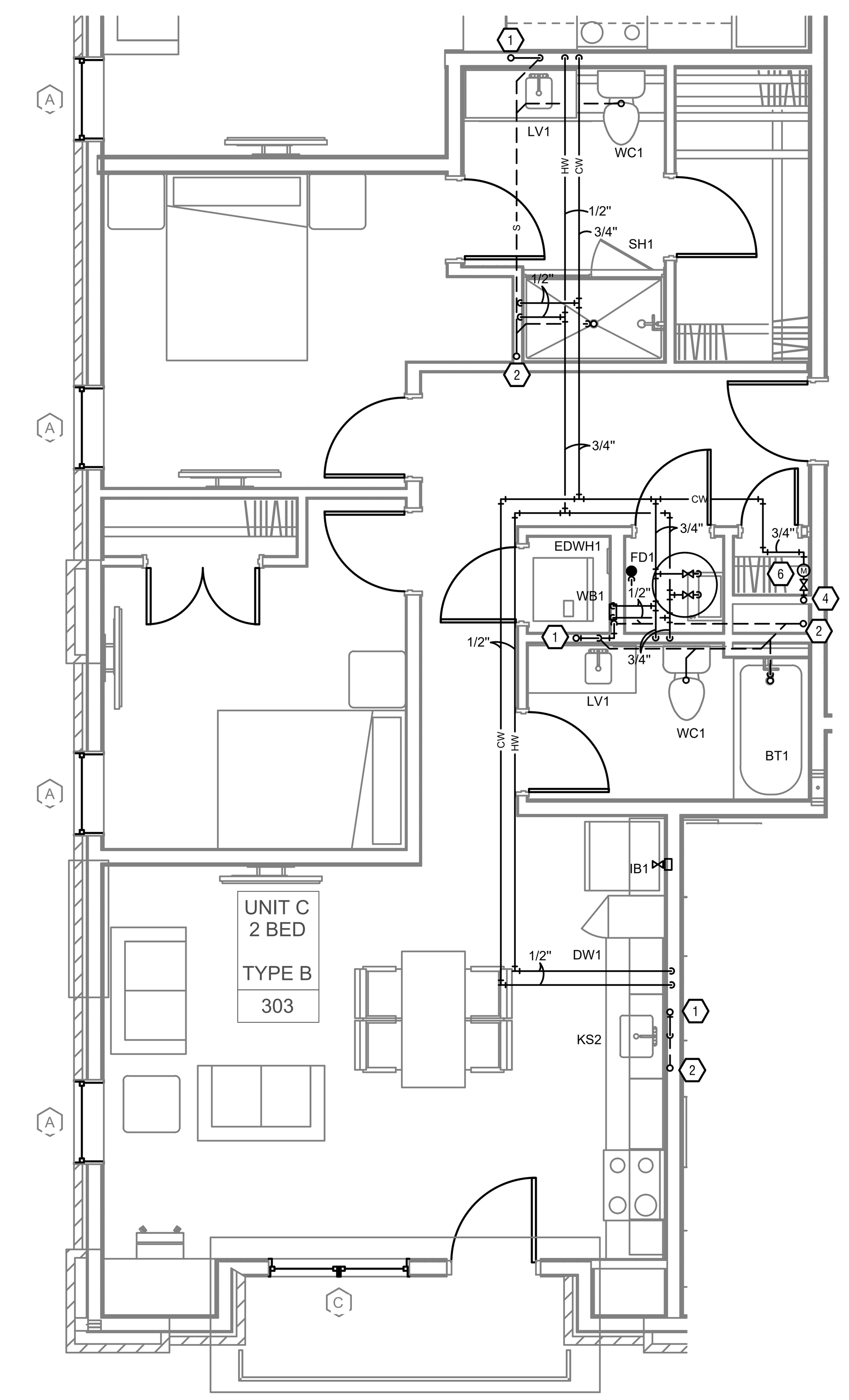

3 P-200 UNIT C
SCALE: 1/4" = 1'-0"

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P-200

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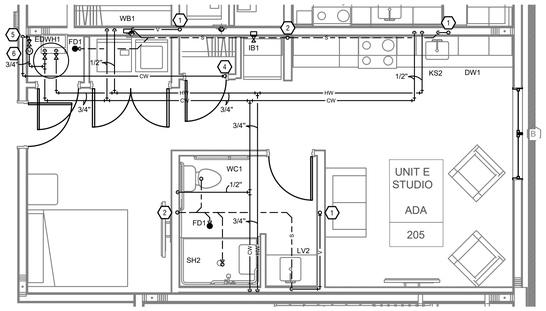

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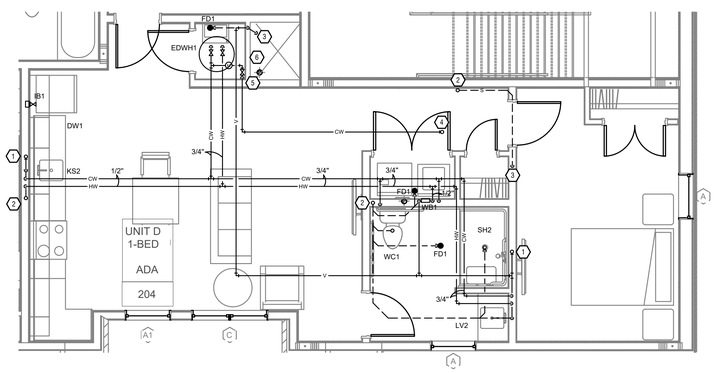

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P-201

PLUMBING SPECIFICATIONS

1. PLUMBING GENERAL REQUIREMENTS

A. THE PLUMBING CONTRACTOR MUST REFER TO SITE PLANS, ARCHITECTURAL PLANS AND ELEVATIONS, AND PRICING INSTRUCTIONS FROM THE GENERAL CONTRACTOR TO DEVELOP THEIR PRICE. THE PLUMBING CONTRACTOR'S PRICE (INCLUDING TAXES) SHOULD INCLUDE ALL LABOR AND MATERIAL NECESSARY TO PROVIDE A COMPLETE AND FULLY OPERATIONAL PLUMBING SYSTEM.

B. THE PLUMBING CONTRACTOR SHALL BE LICENSED BY THE STATE OF INDIANA TO INSTALL PLUMBING SYSTEMS.

C. ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH ALL APPLICABLE STATE, LOCAL CODES AND ORDINANCES.

D. IN CASE OF CONFLICT BETWEEN THE DRAWINGS/SPECIFICATIONS AND THE CODES AND ORDINANCES, THE HIGHEST STANDARD SHALL APPLY.

E. THE PLUMBING CONTRACTOR SHALL SATISFY CODE REQUIREMENTS AS A MINIMUM STANDARD.

F. SUBMIT TO THE ARCHITECT PDF FILE COPIES OF COMPLETE AND CERTIFIED SHOP DRAWINGS, DESCRIPTIVE DATA, PERFORMANCE DATA AND RATINGS, DIAGRAMS AND SPECIFICATIONS ON ALL SPECIFIED EQUIPMENT INCLUDING ACCESSORIES, AND MATERIALS FOR REVIEW.

G. COORDINATE PIPING CHASES, SHAFTS, ABOVE CEILING WORK, ETC. WITH ARCHITECT. ALL DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT FOR REVIEW PRIOR TO WORK.

H. THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING ALL NECESSARY PLUMBING PIPING PENETRATIONS. THIS INCLUDES CORING HOLES IN SLABS, ETC.

I. EQUIPMENT AND MATERIALS SHALL CONFORM WITH APPROPRIATE PROVISIONS OF AGA, ARI, ASME, ASTM, CISPI, UL, NEMA, ANSI, SMACNA, ASHRAE, NFPA, NEC, AS APPLICABLE TO EACH INDIVIDUAL UNIT OR ASSEMBLY. ALL EQUIPMENT MUST BEAR UL LABEL.

J. INSTALL EQUIPMENT PER MANUFACTURER'S REQUIREMENTS. MAINTAIN ALL CODE RECOMMENDED CLEARANCES.

K. THOROUGHLY EXAMINE ALL AREAS WHERE EQUIPMENT AND PIPING WILL BE INSTALLED AND REPORT ANY CONDITION THAT PREVENTS THE PROPER INSTALLATION OF THE PLUMBING WORK PRIOR TO BID. ALL WORK SHALL BE DONE AT TIMES CONVENIENT TO THE OWNER AND ONLY DURING NORMAL WORKING HOURS, UNLESS SPECIFIED OTHERWISE. PLUMBING CONTRACTOR SHALL TAKE THEIR OWN MEASUREMENTS.

L. WHERE NOT PROVIDED BY OTHERS, PROCURE AND PAY FOR ALL PERMITS, FEES, TAXES AND INSPECTIONS NECESSARY TO COMPLETE THE PLUMBING WORK. FURNISH CERTIFICATE OF APPROVAL FOR WORK FROM INSPECTION AUTHORITY TO OWNER BEFORE FINAL ACCEPTANCE FOR WORK. CERTIFICATE OF FINAL INSPECTION AND APPROVAL SHALL BE SUBMITTED WITH THE CONTRACTOR'S REQUEST FOR PAYMENT. NO FINAL PAYMENT WILL BE APPROVED WITHOUT THIS CERTIFICATE.

M. DRAWINGS ARE DIAGRAMMATIC ONLY INTENDING TO SHOW GENERAL RUNS AND LOCATIONS OF EQUIPMENT, FIXTURES, PIPING AND NOT NECESSARILY SHOWING ALL OFFSETS, DETAILS, ACCESSORIES AND EQUIPMENT TO BE CONNECTED.

N. ALL WORK SHALL BE ACCURATELY LAID-OUT WITH OTHER TRADES, PRIOR TO INSTALLATION & FABRICATION, TO AVOID ALL CONFLICTS AND OBTAIN A NEAT AND WORKMANLIKE INSTALLATION WHICH WILL AFFORD MAXIMUM ACCESSIBILITY FOR EQUIPMENT OPERATION, MAINTENANCE CLEARANCES AND HEADROOM.

O. NO PIPING SHALL BE EXPOSED UNLESS APPROVED BY THE ARCHITECT.

P. ANY PLUMBING SYSTEMS SERVING OTHER AREAS OF THE BUILDING MUST REMAIN UNDISTURBED/ OPERATIONAL. IF THE PLUMBING CONTRACTOR IDENTIFIES ANY INSTANCES WHERE THIS WILL NOT BE ACHIEVABLE, THEY MUST REPORT THIS TO THE GENERAL CONTRACTOR PRIOR TO TOUCHING THE SYSTEM(S).

Q. CONTRACTOR TO SUBMIT DRAWINGS TO OWNER FOR REVIEW PRIOR TO SUBMITTING FOR PERMIT. EBS WILL REVIEW DRAWINGS FOR GENERAL CONFORMANCE WITH CRITERIA DOCUMENTS. EBS ASSUMES NO RESPONSIBILITY OR LIABILITY FOR ANY PORTION OF THE DESIGN OR CONSTRUCTION OF THIS FACILITY.

2. USE OF INFORMATION PROVIDED BY EBS

A. THE INFORMATION PROVIDED IS INTENDED TO CONVEY DESIGN INTENT ONLY. ALL MEANS AND METHODS, SEQUENCES, TECHNIQUES, AND PROCEDURES OF CONSTRUCTION AS WELL AS ANY ASSOCIATED SAFETY PRECAUTIONS AND PROGRAMS, AND ALL INCIDENTAL AND TEMPORARY DEVICES REQUIRED TO CONSTRUCT THE PROJECT, AND TO PROVIDE A COMPLETE AND FULLY OPERATIONAL PLUMBING SYSTEM ARE THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR.

3. CONTRACTOR COORDINATION

A. COORDINATION DRAWINGS SHOWING SYSTEM AND COMPONENT INSTALLATION LAYOUT, ROUTING, DETAILS, ETC. SHALL BE PRODUCED BY THE PLUMBING CONTRACTOR AND UNDER THE SUPERVISION OF THE GENERAL CONTRACTOR/CONSTRUCTION MANAGER, OR APPROPRIATE PARTY AS APPLICABLE. ALL SYSTEMS INSTALLED BY EACH SUB-CONTRACTOR SHALL BE COORDINATED WITH ONE ANOTHER AND APPROVED BY GENERAL CONTRACTOR/CONSTRUCTION MANAGER, ETC. PRIOR TO INSTALLATION AND/OR FABRICATION. IF QUESTIONS CONCERNING DESIGN INTENT ARISE DURING COORDINATION, EBS CAN ASSIST WHERE APPROPRIATE.

4. CUTTING AND PATCHING

A. CUT AND PATCH ALL WALLS, CEILINGS, FLOORS, AND SLABS TO MATCH BUILDING CONSTRUCTION WHERE REQUIRED TO INSTALL PLUMBING.

5. CONCRETE HOUSEKEEPING PADS

A. ALL FLOOR-MOUNTED EQUIPMENT SHALL BE INSTALLED LEVEL AND PLUMB ON 4" THICK CONCRETE HOUSEKEEPING PAD.

6. ESCUTCHEON PLATES

A. INSTALL ONE-PIECE CHROME PLATED BRASS WALL PLATE EQUIPPED WITH SET SCREW AROUND ALL EXPOSED PIPE PASSING THROUGH WALLS IN FINISHED AREAS.

7. ACCESS PANELS

A. LOCATE VALVES IN READILY ACCESSIBLE LOCATIONS. WHERE VALVES SHALL BE INSTALLED ABOVE NON-ACCESSIBLE CEILINGS, PROVIDE ACCESS PANELS. ACCESS PANELS SHALL BE PAINTABLE METAL. COORDINATE ACCESS PANEL SIZES AND LOCATIONS WITH THE ARCHITECT.

8. FIRE STOPPING

A. PROVIDE FIRE STOPPING AT ALL PENETRATIONS THROUGH RATED SEPARATIONS PER LOCAL CODES & REGULATIONS & PER UL RECOMMENDATIONS FOR ASSEMBLIES ENCOUNTERED IN PROJECT.

B. THE FIRE STOPPING MATERIAL MUST MEET THE INTEGRITY OF THE FIRE RATED WALL, FLOOR, CEILING & ROOF BEING PENETRATED. REFER TO ARCHITECT'S DRAWINGS FOR WALL, FLOOR, CEILING & ROOF FIRE RATINGS PRIOR TO BIDDING WORK.

9. FLASHING & COUNTERFLASHING

A. PROVIDE ROOF FLASHING AND COUNTERFLASHING FOR ALL ROOF PENETRATIONS.

B. OBTAIN APPROVAL FROM GENERAL CONTRACTOR, CONSTRUCTION MANAGER, OWNER AND/OR ROOFING CONTRACTOR PRIOR TO MAKING ANY PENETRATIONS SO THAT WARRANTIES ARE NOT COMPROMISED OR VOIDED.

10. CATHODIC PROTECTION

A. PROVIDE DIELECTRIC INSULATION AT POINTS WHERE COPPER OR BRASS PIPE COMES IN CONTACT WITH FERROUS PIPING, REINFORCING STEEL OR OTHER DISSIMILAR METAL IN STRUCTURE.

11. EXCAVATION, TRENCHING & BACKFILL

A. DO ALL EXCAVATION, TRENCHING & BACKFILL REQUIRED FOR THE INSTALLATION OF PLUMBING WORK.

B. ALL BACKFILL SHALL BE COMPACTED & BROUGHT TO FINISHED GRADE AND MUST MATCH SURROUNDING CONDITIONS.

C. RESTORE ALL DISTURBED FLOORING TO ORIGINAL CONDITION.

D. ALL PIPING SHALL BE LAID ON A BED OF SAND, 6" THICK MINIMUM. BACKFILL UNDER BUILDING AND ALL DRIVES, ROADS AND WALKS WITH BANK-RUN GRAVEL.

12. EQUIPMENT CONNECTIONS

A. INSTALL UNIONS AT FINAL CONNECTION TO EACH PIECE OF EQUIPMENT. INSTALL DIELECTRIC COUPLINGS TO CONNECT PIPING MATERIALS OF DISSIMILAR METALS.

13. PIPING INSTALLATION

A. INSTALL PIPING FREE OF SAGS AND BENDS. INSTALL FITTINGS FOR CHANGES IN DIRECTION AND BRANCH CONNECTIONS.

14. TESTING

A. ALL PLUMBING WORK SHALL BE TESTED & APPROVED BY INSPECTOR PRIOR TO BEING BACKFILLED, CONCEALED & PUT INTO SERVICE. AFTER TESTING IS COMPLETE & APPROVED, THE PLUMBING CONTRACTOR MUST DISINFECT THE POTABLE WATER SYSTEM AS REQUIRED BY LOCAL AUTHORITY. TEST WATER PURITY ACCORDING TO LOCAL REQUIREMENTS AND SUBMIT CERTIFIED TEST RESULTS TO OWNER FOR REVIEW AND APPROVAL.

15. SHOP DRAWINGS

A. SUBMIT TO THE ARCHITECT PDF FILE COPIES OF COMPLETE & CERTIFIED SHOP DRAWINGS, DESCRIPTIVE DATA, PERFORMANCE DATA & RATINGS, DIAGRAMS AND SPECIFICATIONS ON ALL SPECIFIED EQUIPMENT, INCLUDING ACCESSORIES, AND MATERIALS FOR REVIEW.

B. THE MAKE, MODEL NUMBER, TYPE, FINISH & ACCESSORIES OF ALL EQUIPMENT AND MATERIALS SHALL BE REVIEWED & APPROVED BY THE PLUMBING CONTRACTOR & GENERAL CONTRACTOR PRIOR TO SUBMITTING TO THE ARCHITECT FOR THEIR REVIEW & APPROVAL.

C. REVIEW OF SHOP DRAWINGS DOES NOT RELIEVE THE PLUMBING CONTRACTOR/VENDOR FROM COMPLIANCE WITH THE REQUIREMENTS OF THE CONTRACT DRAWINGS, SPECIFICATIONS & APPLICABLE CODES.

16. OWNER'S INSTRUCTIONS

A. PROVIDE TWO SETS OF COMPLETE OPERATING AND MAINTENANCE INSTRUCTIONS WITH DRAWINGS, TYPEWRITTEN INSTRUCTIONS AND OPERATING SEQUENCES AND DESCRIPTIVE DATA SHEETS. ASSEMBLE EACH SET IN A HARD-BOUND COVER.

17. WARRANTY

A. THE PLUMBING CONTRACTOR MUST UNCONDITIONALLY WARRANT ALL WORK TO BE FREE OF DEFECTS IN EQUIPMENT, MATERIAL AND WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE BY OWNER AND THE PLUMBING CONTRACTOR WILL REPAIR OR REPLACE ANY DEFECTIVE WORK PROMPTLY AND WITHOUT CHARGE TO THE OWNER.

B. RESTORE ANY OTHER EXISTING WORK DAMAGED IN THE COURSE OF REPAIRING DEFECTIVE EQUIPMENT, MATERIALS AND WORKMANSHIP.

18. SLEEVES AND SLEEVE SEALS FOR PLUMBING PIPING

A. INSTALL SLEEVES FOR PIPES PASSING THROUGH CONCRETE AND MASONRY WALLS, GYPSOM-BOARD PARTITIONS, CONCRETE FLOORS, AND ROOF SLABS.

B. SEAL PIPE PENETRATIONS THROUGH RATED CONSTRUCTION WITH FIRESTOPPING SEALANT MATERIAL.

C. FOR PIPES PENETRATING THROUGH BELOW-GRADE EXTERIOR WALLS, PROVIDE WATERTIGHT SPACE WITH LINK RUBBER OR MODULAR SEAL BETWEEN SLEEVE AND PIPE ON BOTH ENDS.

19. GENERAL-DUTY VALVES FOR PLUMBING PIPING

A. VALVES FOR DOMESTIC WATER MUST MEET THE REQUIREMENTS OF THE LEAD-FREE LAW S.3874. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE LEAD-FREE PRODUCTS AS MANDATED BY THE LAW AND AS REQUIRED/INTERPRETED BY THE AUTHORITY HAVING JURISDICTION.

B. PROVIDE VALVES FOR WORKING PRESSURE IN WATER PIPING OF 125 PSI OR GREATER.

C. GENERAL DUTY VALVES - PROVIDE TWO-PIECE, FULL PORT, SILICON BRONZE BALL VALVES WITH THE CAPABILITY OF ACCEPTING EXTENDED OPERATING HANDLES (FOR INSULATED PIPING). VALVES SHALL BE NIBCO MODEL T/S/PC-595-Y-66-LF (-NS) OR EQUAL PRODUCT MANUFACTURED BY AMERICAN VALVE CO, CRANE, HAMMOND, MILWAUKEE, RED-WHITE VALVE CORPORATION, OR WATTS.

D. PLUMBING CONTRACTOR MUST PROVIDE VALVES AS NECESSARY FOR PROPER SYSTEM OPERATION AND COMPONENT ISOLATION. INSTALL VALVES FOR EACH ISOLATED FIXTURE OR GROUP OF FIXTURES, AND EACH CONNECTION TO EQUIPMENT.

E. LOCATE SHUT-OFF VALVES ADJACENT TO EQUIPMENT FOR EASY ACCESS SUCH THAT VALVES CAN BE REACHED WITHOUT MOVING EQUIPMENT.

F. CONTROL VALVES SHALL BE MANUFACTURED BY OR APPROVED BY PIPING MANUFACTURER.

G. ADJUST ALL STOPS AND VALVES PROPERLY PRIOR TO PROJECT COMPLETION.

20. HANGERS AND SUPPORTS FOR PLUMBING PIPING AND EQUIPMENT

A. THE PLUMBING CONTRACTOR MUST FURNISH ALL PIPE SUPPORTS REQUIRED FOR THEIR WORK. ALL PIPING SHALL BE SUPPORTED PER CODE. ADDITIONAL SUPPORTS SHALL BE PROVIDED WHERE REQUIRED TO PREVENT SAGGING. WHERE ALTERNATIVE PIPING MATERIALS ARE USED, HANGER SPACING CAN BE REDUCED AS RECOMMENDED BY THE MANUFACTURER AND WHERE ALLOWED BY CODE.

B. SUPPORT FOR PIPING INSTALLED ON THE ROOF - ALL PIPING ON ROOF TO BE SUPPORTED WITH RUBBER, UV-RESISTANT SUPPORT BLOCKS EQUAL TO MIFAB CXM-B.

21. DOMESTIC WATER PIPING GENERAL REQUIREMENTS

A. PROVIDE A NEW DOMESTIC WATER SERVICE TO THE BUILDING.

22. INTERIOR DOMESTIC WATER PIPING

A. CPVC PIPING

1) CPVC PIPING 2" AND SMALLER SHALL BE EQUAL TO FLOW GUARD GOLD - THIS SPECIFICATION COVERS COPPER TUBE SIZE (CTS) CPVC MANUFACTURED TO STANDARD DIMENSIONAL RATIO (SDR) 11 FOR HOT AND COLD DOMESTIC WATER DISTRIBUTION. THIS SYSTEM IS INTENDED FOR PRESSURE APPLICATIONS WHERE THE OPERATING TEMPERATURE WILL NOT EXCEED 180°F AT 100 PSI. PIPE AND FITTINGS SHALL BE MANUFACTURED FROM VIRGIN RIGID CPVC (CHLORINATED POLYVINYL CHLORIDE) VINYL COMPOUNDS WITH A CELL CLASS OF 24448 AS IDENTIFIED IN ASTM D 1784. CTS CPVC PIPE AND FITTINGS SHALL CONFORM TO ASTM D 2846. PIPE AND FITTINGS SHALL BE MANUFACTURED AS A SYSTEM AND BE THE PRODUCT OF ONE MANUFACTURER. ALL PIPE AND FITTINGS SHALL BE MANUFACTURED IN THE UNITED STATES. PIPE AND FITTINGS SHALL CONFORM TO NATIONAL SANITATION FOUNDATION (NSF) STANDARDS 14 AND 61. INSTALLATION SHALL COMPLY WITH LATEST INSTALLATION PROVIDED BY THE MANUFACTURER AND SHALL CONFORM TO ALL LOCAL PLUMBING, BUILDING AND FIRE CODE REQUIREMENTS. BURIED PIPE SHALL BE INSTALLED IN ACCORDANCE WITH ASTM F 1668. SOLVENT WELD JOINTS SHALL BE MADE USING CPVC CEMENT CONFORMING TO ASTM F 493. YELLOW ONE-STEP CEMENT MAY BE USED WITHOUT PRIMER. IF A PRIMER IS REQUIRED BY LOCAL PLUMBING OR BUILDING CODES, THEN A PRIMER CONFORMING TO ASTM F 656 SHOULD BE USED. THE SYSTEM SHALL BE PROTECTED FROM CHEMICAL AGENTS, FIRE STOPPING MATERIALS, THREAD SEALANT, PLASTICIZED VINYL PRODUCTS OR OTHER AGGRESSIVE CHEMICAL AGENTS NOT COMPATIBLE WITH CPVC COMPOUNDS. SYSTEMS SHALL BE HYDROSTATICALLY TESTED AFTER INSTALLATION. NEVER TEST WITH OR TRANSPORT/STORE COMPRESSED AIR OR GAS IN CPVC PIPE OR FITTINGS.

B. PEX TUBING

1) PEXTUBING SHALL BE PEX-A TYPE AND FITTINGS SHALL BE EQUAL TO UPONOR AQUAPEX. TUBING AND FITTINGS MUST CONFORM TO ASTM F876 "STANDARD SPECIFICATION FOR CROSSLINKED POLYETHYLENE, ASTM F877 "STANDARD FOR CROSSLINKED POLYETHYLENE PLASTIC HOT AND COLD WATER DISTRIBUTION SYSTEMS". PROVIDE ENGINEERED PLASTIC FITTINGS WITH PLASTIC COLLARS WHICH CONFORM TO ASTM F1960 STANDARD SPECIFICATION FOR COLD EXPANSION FITTINGS WITH PEX REINFORCING RINGS FOR USE WITH CROSSLINKED POLYETHYLENE PIPING. PEX TUBING AND CONNECTIONS SHALL BE WARRANTED FOR A PERIOD OF 25 YEARS. DO NOT WELD, GLUE, TAPE OR ALLOW OTHER SOLVENT BASED ADHESIVES OR PAINTS TO COME INTO CONTACT WITH TUBING. DO NOT ALLOW TUBING TO COME IN CONTACT WITH PIPE THREAD COMPOUNDS, FIREWALL PENETRATION SEALING COMPOUNDS, AND PETROLEUM BASED SEALANTS. DO NOT ALLOW TUBING TO COME WITHIN 6" OF GAS APPLIANCE VENTS OR 12" OF RECESSED LIGHT FIXTURES. DO NOT EXPOSE TUBING TO OPEN FLAME. DO NOT SOLDER WITHIN 18" OF TUBING. DO NOT INSTALL TUBING BETWEEN TUB SPOUT AND SHOWER VALVE. RADIUS OF BENDS MUST NOT EXCEED SIX TIMES OUTSIDE TUBE DIAMETER. REPAIR KINKS IN TUBING USING HEAT AS RECOMMENDED BY MANUFACTURER. TUBING SHALL BE INSTALLED IN MAXIMUM PRACTICAL LENGTHS, AS DIRECTLY AS POSSIBLE TO REMOTE MANIFOLD WITH MINIMUM FITTINGS. TUBING SHALL BE SUPPORTED IN A MATTER THAT DOES NOT DAMAGE TUBING AND ALLOWS FOR THERMAL EXPANSION. SUPPORTS SHALL BE SPACED AT 32" MINIMUM HORIZONTALLY AND 60" VERTICALLY AND WITHIN 6" OF FITTINGS OR BENDS. USE BEND SUPPORTS AT 90 DEGREE BENDS. PROTECT INSTALLED TUBING FROM DAMAGE. INSTALL METAL PLATES WHERE TUBING PENETRATES STUDS AT FACE OF STUDS. REMOTE MANIFOLD TYPE FITTINGS SHALL BE UTILIZED AT BRANCHES IN ROOMS WHERE TUBING IS TERMINATED (MODIFIED HOME-RUN INSTALLATION TYPE). UTILIZE EXPANDER TOOLS RECOMMENDED BY MANUFACTURER FOR CONNECTION OF TUBING TO FITTINGS. DO NOT OVER EXPAND TUBING. PIPE SHALL BE SUPPORTED AT FITTINGS AND FIXTURES AS RECOMMENDED BY MANUFACTURER. PIPING SHALL BE INSTALLED WITH MINIMUM AMOUNT OF FITTINGS. USE MANUFACTURER APPROVED VALVES, FITTINGS, HOSE BIBS AND BOXES AT FIXTURES.

23. SANITARY AND VENT PIPING GENERAL REQUIREMENTS

A. PROVIDE NEW SANITARY LATERAL FROM BUILDING TO PUBLIC MAIN.

24. INTERIOR SANITARY AND VENT PIPING

A. SANITARY, WASTE, AND VENT PIPING WITHIN BUILDING TO BE SCHEDULE 40 PVC PIPING AND FITTINGS CONFORMING TO ASTM D 2665, SOLID-WALL DRAIN PIPING WITH PVC SOCKET SOLVENT WELD FITTINGS CONFORMING TO ASTM D2665, MADE TO ASTM D3311, DRAIN, WASTE, AND VENT PATTERNS.

25. STORM PIPING GENERAL REQUIREMENTS

A. PROVIDE NEW STORM LATERAL FROM BUILDING TO PUBLIC MAIN.

26. INTERIOR STORM PIPING

A. STORM PIPING WITHIN BUILDING TO BE SCHEDULE 40 PVC PIPING AND FITTINGS CONFORMING TO ASTM D 2665, SOLID-WALL DRAIN PIPING WITH PVC SOCKET SOLVENT WELD FITTINGS CONFORMING TO ASTM D2665, MADE TO ASTM D3311, DRAIN, WASTE, AND VENT PATTERNS.STORM PIPING WITHIN BUILDINGS SHALL BE SCHEDULE 40 PVC PIPING AND FITTINGS CONFORMING TO ASTM D 2665, SOLID-WALL DRAIN PIPING WITH PVC SOCKET SOLVENT WELD FITTINGS CONFORMING TO ASTM D2665, MADE TO ASTM D3311, DRAIN, WASTE, AND VENT PATTERNS.

B. WHERE THE LOCAL AUTHORITY HAVING JURISDICTION ALLOWS THE USE OF INSULATION WITH THE REQUIRED FLAME AND SMOKE RATINGS TO PROTECT PVC PIPING INSTALLED IN PLENUMS, IT SHALL BE APPROVED.

27. NATURAL GAS PIPING GENERAL REQUIREMENTS

A. PROVIDE NEW GAS SERVICE FROM THE PUBLIC MAIN TO THE BUILDING AND PROVIDE NEW GAS METER SIZED FOR THE TOTAL CONNECTED LOAD.

B. PROVIDE GAS REGULATORS AT GAS-FIRED EQUIPMENT TO REDUCE PRESSURE TO THE PRESSURE RECOMMENDED BY THE EQUIPMENT MANUFACTURER.

C. PROVIDE GAS PIPING RUN-OUTS TO ALL GAS-FIRED EQUIPMENT. PIPING SHALL BE INSTALLED FULL-SIZE TO EACH UNIT'S GAS INLET CONNECTION, BURNER, REGULATOR, ETC. PROVIDE AND INSTALL GAS COCK AND MAKE FINAL CONNECTIONS. CONNECTIONS TO EACH GAS-FIRED EQUIPMENT ITEM MUST INCLUDE A DRIP LEG AND SHUTOFF GAS COCK. COMPLY WITH EQUIPMENT MANUFACTURER'S INSTRUCTION. FOR CONNECTIONS TO GAS-FIRED ROOFTOP EQUIPMENT, INCLUDE THE ROOF PENETRATION AND INSTALL THE GAS PIPING THROUGH THE ROOF IN A LOCATION THAT HAS BEEN COORDINATED WITH THE MECHANICAL CONTRACTOR.

D. PAINT ALL EXTERIOR METAL PIPING, VALVES, SERVICE REGULATORS, SERVICE METERS AND METER BARS, AND ASSOCIATED PIPING SPECIALTIES WITH A RUST-INHIBITIVE PRIMER AND EXTERIOR-GRADE PAINT. COORDINATE COLOR WITH ARCHITECT.

28. GAS SERVICE PIPING

A. NEW SERVICE DELIVERY PRESSURE SHALL BE 7" WATER COLUMN.

B. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH WORK PROVIDED BY THE UTILITY COMPANY, INCLUDING TAP FEES, INSTALLATION COSTS, ROAD CUTS, AND BORES IF APPLICABLE.

C. ALL EXTERIOR GAS PIPING SHALL BE MEDIUM DENSITY POLYETHYLENE PLASTIC PIPING APPROVED BY THE LOCAL UTILITY COMPANY.

29. DRAIN PANS

A. PROVIDE DRAIN PAN UNDER WATER HEATERS. PIPE WATER HEATER DRAIN AND PRESSURE RELIEF VALVE SEPARATELY AND INDIRECTLY TO FLOOR DRAIN (NOT TO DRAIN PAN).

B. DRAIN PANS SHALL BE PROVIDED UNDER WASHERS AND SHALL BE SIZED TO ACCOMMODATE A STANDARD WASHER OR STACKABLE WASHER/DRYER AS APPLICABLE. BASIS OF DESIGN SHALL BE DRIPTITE 30-5/8" WIDE X 34-5/8" DEEP TRANSLUCENT PAN. DRILL ¾" OUTLET IN VERTICAL SIDEWALL FOR SIDE-OUTLET OR IN BOTTOM OF PAN DIRECTLY OVER DRAIN IF DRAIN IS UNDER THE PAN. DRAIN CONNECTION SHALL BE MADE WITH MANUFACTURER PROVIDED DRAIN OUTLET CONNECTION. PANS ARE AVAILABLE IN CUSTOM SIZES IF NECESSARY (COORDINATE SIZES AND LOCATIONS OF THE PAN WITH ROOM DIMENSIONS AND EQUIPMENT SIZES AS PROVIDED BY THE ARCHITECT/OWNER).

30. BACKFLOW PREVENTERS

A. PROVIDE REDUCED PRESSURE BACKFLOW PREVENTER ON WATER SERVICE ENTRANCE.

B. BACKFLOW PREVENTERS FOR 2" AND SMALLER WATER SERVICES - PROVIDE REDUCED PRESSURE BACKFLOW PREVENTER ON THE WATER SERVICE MAIN WHERE THE WATER SERVICE ENTERS THE BUILDING. REDUCED PRESSURE BACKFLOW PREVENTER TO BE EQUAL TO WATTS SERIES LF919QT. APPROVED MANUFACTURERS OF EQUAL PRODUCTS SHALL BE CONBRACO AND WILKINS.

31. WALL HYDRANTS

A. WALL HYDRANTS TO BE EQUAL TO ¾" WOODFORD MODEL B-67, WITH CHROME FINISH ON BRASS CASTING, WITH BOX AND HINGED DOOR, AND LOOSE-TEE KEY. CONCEAL WITHIN INTERIOR PARTITIONS AND/OR INSTALL IN A MANNER THAT PREVENTS FREEZING. FURNISH TO OWNER, ONE VALVE KEY FOR EACH KEY OPERATED WALL HYDRANT INSTALLED. APPROVED MANUFACTURERS OF EQUAL PRODUCTS SHALL BE ZURN, WADE, JOSAM, SMITH, OR WATTS.

32. TRAP SEAL PROTECTION

A. TRAP SEALS SUBJECT TO EVAPORATION SHALL BE PROTECTED BY ONE OF THE METHODS BELOW, AS APPROVED BY THE LOCAL PLUMBING AUTHORITY HAVING JURISDICTION:

1) POTABLE WATER-SUPPLIED TRAP SEAL PRIMER VALVE - A POTABLE WATER-SUPPLIED TRAP SEAL PRIMER VALVE MUST SUPPLY WATER TO THE TRAP. WATER-SUPPLIED TRAP SEAL PRIMERS MUST CONFORM TO ASSE 1018. THE DISCHARGE PIPE FROM THE TRAP SEAL PRIMER MUST CONNECT TO THE TRAP ABOVE THE TRAP SEAL ON THE INLET SIDE OF THE TRAP.

2) BARRIER-TYPE TRAP SEAL PROTECTION DEVICE - A BARRIER-TYPE TRAP SEAL PROTECTION DEVICE MUST PROTECT THE TRAP SEAL FROM EVAPORATION. BARRIER-TYPE TRAP SEAL PROTECTION DEVICES MUST CONFORM TO ASSE 1072. THE DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

33. ROOF DRAINS

A. PROVIDE NEW PRIMARY AND SECONDARY ROOF DRAINS AND ASSOCIATED PRIMARY AND SECONDARY STORM PIPING SYSTEMS WHERE INTERIOR DRAINS ARE SHOWN ON ARCHITECTURAL ROOF PLAN. SECONDARY ROOF DRAINS SHALL BE PIPED INDEPENDENTLY FROM THE PRIMARY SYSTEM AND MUST DISCHARGE THROUGH DOWNSPOUT NOZZLES LOCATED IN THE EXTERIOR WALL AT GRADE.

B. ROOF DRAINS SHALL HAVE PVC BODY AND PVC DOME.

34. DOWNSPOUT NOZZLES FOR SECONDARY ROOF DRAINAGE

A. DOWNSPOUT NOZZLES FOR SECONDARY DRAINAGE DISCHARGING TO GRADE MUST HAVE NICKEL-BRONZE BODY AND REMOVABLE STAINLESS-STEEL SCREEN EQUAL TO ZURN Z199-SS.

35. CLEANOUTS

A. PROVIDE FLOOR AND WALL CLEANOUTS WHERE REQUIRED IN ALL SOIL, WASTE, DRAIN AND STORM PIPING. IN AREAS WITH CERAMIC TILE OR CARPETED FLOORING, PROVIDE CLEANOUTS WITH SQUARE, ADJUSTABLE, NICKEL BRONZE TOP. IN AREAS WITH RESILIENT FLOORING, PROVIDE CLEANOUTS WITH SQUARE, ADJUSTABLE, NICKEL BRONZE TOP WITH TILE RECESS. CLEANOUTS SHALL BE SAME SIZE AS PIPE EXCEPT THAT CLEANOUTS LARGER THAN 4" WILL NOT BE REQUIRED. WHERE CLEANOUTS OCCUR IN WALLS OF FINISHED AREAS, THEY SHALL BE CONCEALED BEHIND CHROME PLATED ACCESS COVERS.

36. ELEVATOR PIT SUMP PUMP

A. ELEVATOR PUMP SYSTEM TO BE EQUAL TO TOPP INDUSTRIES #B22ELE, 18" X 22" BASIN WITH PERFORATED STEEL COVER, AND ZOELLER 98 PUMP, ½ HP, 115 VOLT WITH 1½" DISCHARGE, FLOAT VALVE, AND CHECK VALVE. AVAILABLE MANUFACTURERS INCLUDE ZOELLER, WEIL PUMPS, LIBERTY PUMPS, ARMSTRONG, DAYTON, BARNES, OR GORMAN RUPP CO.

37. PLUMBING FIXTURE GENERAL REQUIREMENTS

A. SHUT OFF VALVES/STOPS SHALL BE PROVIDED AT ALL LAVATORIES, SINKS AND WATER CLOSETS.

B. ALL WALL-HUNG PLUMBING FIXTURES, INCLUDING, BUT NOT LIMITED TO WATER CLOSETS, URINALS, LAVATORIES, AND SINKS SHALL BE ANCHORED TO THE FLOOR WITH CONCEALED IN-WALL CARRIERS. WALL-HUNG FIXTURES SHALL NOT BE SIMPLY BOLTED TO THE WALL OR ANCHORED TO WOOD BLOCKING.

C. COORDINATE COLOR OF FIXTURES WITH ARCHITECT. FIXTURES SHALL BE WHITE UNLESS OTHERWISE NOTED.

D. PROVIDE ADA COMPLIANT FIXTURES WHERE INDICATED ON THE ARCHITECTURAL PLANS. PROVIDE OFFSET FIXTURE TAILPIECES AND TRAPS WHERE REQUIRED TO MEET ADA LEG CLEARANCES.

E. FIXTURES SHALL BE SECURELY FASTENED TO PREVENT ANY MOVEMENT OF FIXTURE DURING NORMAL USE. SEAL TO WALL, FLOOR OR COUNTERTOP WITH SILICONIZED ACRYLIC-LATEX CAULK.

PLUMBING EQUIPMENT AND FIXTURE SCHEDULE

WB1 - WASHER BOX, PROVIDE EQUAL TO OATEY CENTRO, IN WALL WASHER SUPPLY / DRAIN BOX FOR CLOTHES WASHER. PROVIDE FIRE RATED, EQUAL TO GUY GRAY MODEL 82048 FIRE RATED, IN WALL WASHER SUPPLY / DRAIN BOX FOR CLOTHES WASHER.

WC1 - WATER CLOSET, EQUAL TO PROFLO MODEL PF9403, 1.28 GALLONS PER FLUSH, MEET ADA REQUIREMENTS, FLOOR MOUNTED TANK TYPE VITREOUS CHINA, 12" ROUGH-IN. CHROME COMPRESSION ANGLE STOP, FLEXIBLE SUPPLY ASSEMBLY AND SHALL INCLUDE A TOILET SEAT AND COVER. COORDINATE COLOR WITH

FD1 - FLOOR DRAIN, EQUAL TO SIOUX CHIEF MODEL 842-P WITH NICKEL BRONZE ADJUSTABLE STRAINER. PROVIDE TRAP PRIMERS WHERE REQUIRED BY CODE. REFER TO WASTE AND VENT ISOMETRIC FOR SIZES.

KS1 - KITCHEN SINK, EQUAL TO PROFLO PLOMOSA 29-3/4" UNDERMOUNT SINGLE BASIN STAINLESS STEEL KITCHEN SINK, MODEL: PFUC308A, 18 GA. STAINLESS STEEL SINGLE BOWL W/ CLEVELAND FAUCET GROUP FLAGSTONE CA47513 CHROME SINGLE LEVER FAUCET WITH 1.8 GPM AERATOR AND HAND SPRAY, STAINLESS STEEL BASKET STRAINER, ANGLE SUPPLY STOPS, BADGER 1 GARBAGE DISPOSAL & KEENEY #535SN DISPOSER KIT ASSEMBLY.

KS2 - KITCHEN SINK, EQUAL TO KRAUS DEX 25" UNDERMOUNT 16 GAUGE STAINLESS STEEL ADA KITCHEN SINK, STAINLESS STEEL SINGLE BOWL W/ CLEVELAND FAUCET GROUP FLAGSTONE CA47513 CHROME SINGLE LEVER FAUCET WITH 1.8 GPM AERATOR AND HAND SPRAY, STAINLESS STEEL BASKET STRAINER, ANGLE SUPPLY STOPS, BADGER 1 GARBAGE DISPOSAL & KEENEY #535SN DISPOSER KIT ASSEMBLY.

DW1 - DISHWASHER, COORDINATE WITH ARCHITECT FOR MAKE AND MODEL

EDWH1 - ELECTRIC DOMESTIC WATER HEATER, EQUAL TO A.O. SMITH MODEL ENL-50, 50 GALLON, 6 KW, 120V, 1PH

EDWH2 - ELECTRIC DOMESTIC WATER HEATER, EQUAL TO A.O. SMITH MODEL DEL-6S-2, 6 GALLON, 2 KW, 120V, 1PH, TO BE MOUNTED ON PLATFORM ABOVE MOP SINK

LV1 - LAVATORY SINK, EQUAL TO AMERICAN STANDARD MODEL STUDIO, 0614.00 UNDERMOUNT LAVATORY W/ AMERICAN STANDARD MODEL 2555.201 TOWN SQUARE 2 HANDLE CENTERSET FAUCET WITH 0.5 GPM AERATOR, FLEXIBLE STAINLESS SUPPLY PIPES, ANGLE STOPS, "P" TRAP, POPUP DRAIN, AND PROFLO #PF200TRAP COVER.

LV2 - LAVATORY SINK, ADA, EQUAL TO AMERICAN STANDARD MODEL STUDIO, 0614.00 UNDERMOUNT LAVATORY W/ AMERICAN STANDARD MODEL 2555.201 TOWN SQUARE 2 HANDLE CENTERSET FAUCET WITH 0.5 GPM AERATOR, FLEXIBLE STAINLESS SUPPLY PIPES, ANGLE STOPS, "P" TRAP, POPUP DRAIN, AND PROFLO #PF200TRAP COVER.

SH1 - SHOWER, SEE ARCHITECTURAL FINISH LEGEND AND SHOWER SYSTEM SPECIFICATION FOR FLOOR DRAIN AND SHOWER PAN, ADJUSTABLE SHOWER HEAD AND CONTROLS EQUAL TO DELTA ALBION MODEL T142855-I WITH HAND SHOWER AND VALVE

SH2 - SHOWER, FULLY ADA FIBERGLASS SHOWERS ENCLOSURE EQUAL TO 63" X 37" BEST BATH, INCLUDING ADA GRAB BARS, ADA SHOWER SEAT, COLLAPSIBLE DAM AT THRESHHOLD, ADJUSTABLE SHOWER HEAD AND CONTROLS EQUAL TO DELTA ALBION MODEL T142855-I WITH HAND SHOWER AND VALVE

BT1 - BATHTUB, EQUAL TO 30" MINIMUM WIDTH; MADE OF FIBERGLASS, ACRYLIC, PORCELAIN, OR CULTURED MARBLE WITH DELTA MODEL RPW324 HDF HAND SHOWER WITH ADJUSTABLE VALVE; SHOWER HEAD SHALL BE RATED FOR 1.75 GPM.

ESP1 - ELEVATOR SUMP PUMP, EQUAL TO ZOELLER OIL SMART PUMP MODEL 153, 30 GPM @ 30' HEAD, 1/2 HP, W/ SUMP BASIN, ALARM PANEL & OIL SMART PUMP SWITCH IN ACCORDANCE WITH ASMEI7.1 AND WILL PROVIDE PUMPING OF WATER ONLY. A REMOTE ALARM WILL BE ACTIVATED IN THE EVENT OF A HIGH WATER CONDITION OR PRESENCE OF OIL CONDITION.

MS1 - MOP SINK, EQUAL TO PROFLO MODEL PFMB2424, 24" X 24" X 10" MOP SINK BASIN MOEN #8230 W/ CHROME PLATED TWO-HANDLE SERVICE SINK FAUCET, STRAINER, DRAIN SHALL BE 3" IPS HUB OUTLET, P-TRAP WITH ADJUSTABLE FLOOR FLANGE. PROVIDE PROFLO #PF296 HOSE BRACKET AND STAINLESS STEEL WALL GUARDS.

BFP1 - BACKFLOW PREVENTER, EQUAL TO WATTS MODEL LF 919 REDUCED PRESSURE BACKFLOW ASSEMBLY.

WH1 - WALL HYDRANT, EQUAL TO WOODFORD MODEL B-67 3/4". PROVIDE FROST-PROOF EXTERIOR WALL HYDRANTS WITH LOOSE-TEE KEYS ON EACH ELEVATION OF BUILDING. WALL HYDRANTS SHALL BE WALL HYDRANT WITH CHROME FINISH ON BRASS CASTING WITH BOX AND HINGED, DOOR. CONCEAL WITHIN INTERIOR PARTITIONS AND/OR INSTALL IN A MANNER THAT PREVENTS FREEZING. FURNISH TO OWNER, ONE VALVE KEY FOR EACH KEY OPERATED WALL HYDRANT INSTALLED. APPROVED MANUFACTURERS OF EQUAL PRODUCTS SHALL BE ZURN, WADE, JOSAM, SMITH, OR WATTS.

HB1 - HOSE BIB, EQUAL TO WOODFORD MODEL 24P-1/2", LESS HANDLE, AND PROVIDE "OPTIONAL LOOSE TEE KEY", VACUUM BREAKER - ANTI-SIPHON, CHROME FINISH.

RD1 - ROOF DRAIN, EQUAL TO SIOUX CHIEF MODEL 867-Di, ENAMEL COATED CAST IRON, ROOF SUMP, AND UNDERDECK CLAMP.

OD1 - OVERLFOW DRAIN, EQUAL TO SIOUX CHIEF MODEL 868-W-E-S-U, PVC BODY, POLYETHYLENE DOME WITH EXTENSION, ROOF SUMP, AND UNDERDECK CLAMP.

IB1 - ICE MAKER BOX, EQUAL TO ACCOR MODEL FLOWTITE OBP05-2, ICE MAKER WATER SUPPLY BOX. PROVIDE FIRE-RATED BOX IF INSTALLED IN FIRE-RATED WALL EQUAL TO ACCOR MODEL FR-12.

PLUMBING LEGEND

SYMBOL	DESCRIPTION
— — S — —	SANITARY WASTE PIPING
—— V ——	VENT PIPING
——CW——	COLD WATER PIPING
——HW——	HOT WATER PIPING
—— G ——	NATURAL GAS PIPING
——ST——	STORM PIPING
FD ●	FLOOR DRAIN
RD ◎	ROOF DRAIN
OD ◎	OVERFLOW DRAIN
——⋈——	BALL VALVE
——N——	CHECK VALVE
——⋈——	GAS REGULATOR
CO ○	CLEANOUT
WH H	FROST PROOF WALL HYDRANT
HB H	HOSE BIBB

DOMESTIC BOOSTER PUMP (DBP1)

VC SYSTEMS DUPLEX VARIABLE SPEED DOMESTIC WATER BOOSTER PUMP SYSTEM

- ONE (1) VC SYSTEMS MODEL 2VC-PMC-V-2-20-208, VARIABLE FREQUENCY DRIVE DOMESTIC WATER BOOSTER PACKAGE WITH END SUCTION PUMPS, FLANGED DUCTILE IRON CASINGS, AND 304 SS IMPELLERS. HEADER MATERIAL IS 2" FLANGED, WELDED 304 STAINLESS STEEL PIPE; INCLUDING SINGLE SPHERE RUBBER PIPE ISOLATION FITTINGS AND RUBBER VIBRATION MOUNTS.
- SYSTEM CAPACITY: 85 GPM AT 46 PSI WITH A MINIMUM SUCTION PRESSURE OF 21 PSI, MAXIMUM SUCTION PRESSURE OF 50 PSI AND A BOOST OF 30 PSI.
- TWO (2) PUMPS RATED AT 55 GPM AT 69 FT. EACH. 2 HP / 3,500 RPM.
- VOLTAGE IS 208-VOLT, THREE-PHASE, 17 FLA, 18.875 MCA, 5K AIC.
- INDIVIDUAL ISOLATION AND CHECK VALVES FOR EACH PUMP.
- ONE (1) UL 508A LISTED CONTROL PANEL, SINGLE POINT POWER FEED, VARIABLE SPEED DRIVES FOR EACH PUMP, MAIN DISCONNECT SWITCH WITH DOOR INTERLOCK, INDIVIDUAL PUMP FUSE BLOCKS WITH FUSES, POWER "ON" PILOT LIGHT, GREEN PUMP RUN LIGHTS AND HOA SWITCHES, MANUAL AND AUTOMATIC ALTERNATION FOR PUMPS, ALARMS INCLUDE: LOW SUCTION PRESSURE SHUT-DOWN, LOW SYSTEM PRESSURE ALARM ONLY, HIGH SYSTEM PRESSURE SHUT DOWN, NO FLOW SHUT DOWN, SUCTION PRESSURE TRANSDUCER, REDUNDANT DISCHARGE PRESSURE TRANSDUCERS; COMMON AUDIBLE/VISUAL ALARM WITH SILENCE PUSH BUTTON, COMMON NO/NC REMOTE ALARM CONTACT, 4.3" COLOR TOUCH SCREEN INTERFACE; BACNET MS/TP, BACNET IP AND MODBUS TCP PROTOCOLS ARE INCLUDED; ALL ENCLOSED IN A NEMA 4, UL TYPE 1, POWDER COATED STEEL ENCLOSURE.
- ONE (1) 79 GALLON ASME-RATED BLADDER TANK.

TYPICAL COLD WATER PIPING RISER

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Key Plan:

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THE LANDING 3.0

NEW CONSTRUCTION
Columbia St., Indiana

REVISION		
No.	Date	Revision

DRAWING CONTENTS:
PLUMBING DETAILS

ISSUE DATE: 09-03-24
PROJECT NO. 10665
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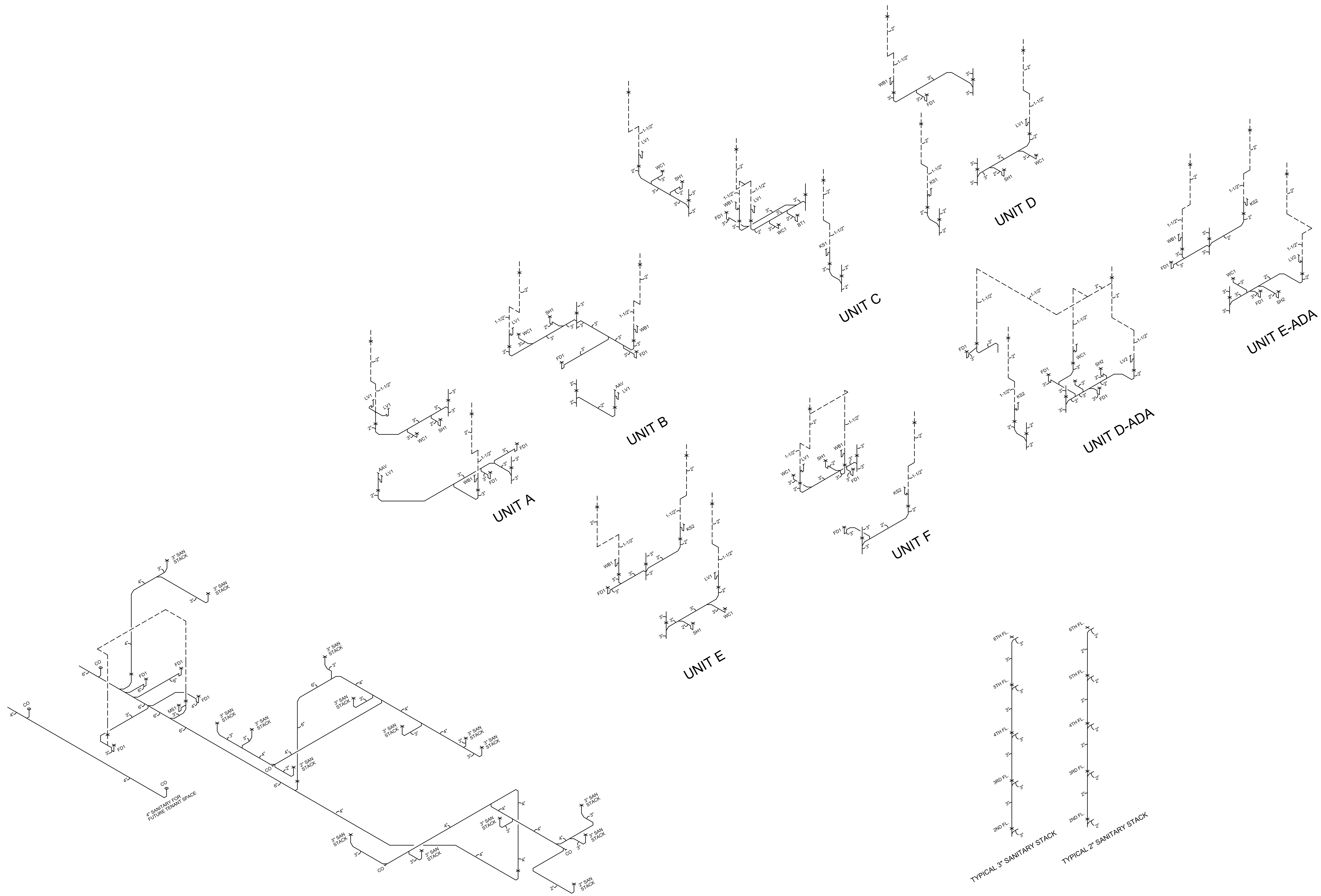

1 / P301 **PLUMBING ISOMETRIC**
SCALE: NOT TO SCALE

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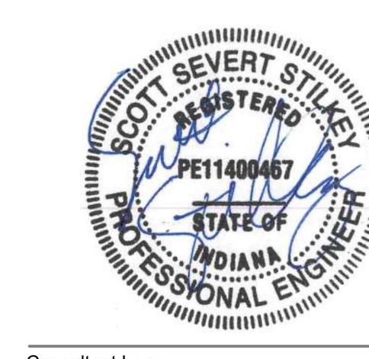

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DRAWING NO.
P301

HVAC SYMBOLS

- SUPPLY DUCT TURNING UP
- RETURN DUCT TURNING UP
- EXHAUST DUCT TURNING UP
- SUPPLY DUCT TURNING DOWN
- RETURN DUCT TURNING DOWN
- EXHAUST DUCT TURNING DOWN
- ROUND DUCT UP
- ROUND DUCT DOWN
- FLEX DUCT - MAX 8'-0" LONG SAME SIZE AS NECK INLET
- (T) THERMOSTAT
- (AV) AUDIBLE/VISIBLE ALARM
- (S) SENSOR (REFER TO PLAN FOR TYPE)
- (CO2) CARBON DIOXIDE SENSOR
- (CO) CARBON MONOXIDE SENSOR
- (NH3) AMMONIA SENSOR
- (S/D) SMOKE DETECTOR
- RETURN AIR/EXHAUST AIR AIRFLOW DIRECTION
- SUPPLY AIR AIRFLOW DIRECTION
- SUPPLY AIR OUTLET
- RETURN/EXHAUST AIR OUTLET
- LINEAR DIFFUSER W/INSULATED PLENUM
- FIRE, SMOKE, OR FIRE/SMOKE COMBO WITH ACCESS DOOR AND SLEEVE (REFER TO PLAN FOR RATING AND TYPE)

ANNOTATION SYMBOLS

- NEW CONNECTION TO EXISTING
- (X) CODED DRAWING NOTE
- XX-X / XXXX — XX-AIR DEVICE TYPE/X-NECK SIZE/XXXX - CFM
  - CD - CEILING DIFFUSER
  - SG - SUPPLY GRILLE
  - SR - SUPPLY REGISTER
  - RG - RETURN GRILLE
  - RR - RETURN REGISTER
  - EG - EXHAUST GRILLE
  - ER - EXHAUST REGISTER
  - LD - LINEAR DIFFUSER

NOT ALL SYMBOLS, LEGENDS AND ABBREVIATIONS ARE USED.

ABBREVIATIONS

ACU	AIR CONDITIONING UNIT	LI	LEVEL INDICATION
ACCU	AIR COOLED CONDENSING UNIT	LIT	LEVEL INDICATING TRANSMITTER
ACT	ACOUSTIC CEILING TILE	LLS	LOW LEVEL SWITCH
AFF	ABOVE FINISHED FLOOR	LLLS	LOW LOW LEVEL SWITCH
AHU	AIR HANDLING UNIT	LT	LEVEL TRANSMITTER
BAS	BUILDING AUTOMATION SYSTEM	LVR	LOUVER
CD	CEILING DIFFUSER	MAU	MAKE-UP AIR UNIT
CHW	CHILLED WATER	MD	MANUAL DAMPER
CHR	CHILLED WATER RETURN	MOD	MOTORIZED DAMPER
CHS	CHILLED WATER SUPPLY	MPC	MEDIUM PRESSURE CONDENSATE
COND	CONDENSATE	MPS	MEDIUM PRESSURE STEAM
CSC	CAR SEAL CLOSE	N	NEW
CSO	CAR SEAL OPEN	NTS	NOT TO SCALE
CU	CONDENSING UNIT	OA	OUTSIDE AIR
CWR	CONDENSING WATER RETURN	PI	PRESSURE INDICATOR
CWS	CONDENSING WATER SUPPLY	PIT	PRESSURE INDICATING TRANSMITTER
E	EXISTING	PRV	PRESSURE RELIEF VALVE
EA	EXHAUST AIR	PSV	PRESSURE SAFETY VALVE
EBH	ELECTRIC BASEBOARD HEATER	PTAC	PACKAGED TERMINAL AIR CONDITIONER
EF	EXHAUST FAN	PT	PRESSURE TRANSMITTER
EG	EXHAUST GRILLE	R	RELOCATE
ER	EXHAUST REGISTER	RA	RETURN AIR
EVAP	EVAPORATOR	RG	RETURN GRILLE
EWH	ELECTRIC WALL HEATER	RR	RETURN REGISTER
FC	FAIL CLOSE	RTU	ROOFTOP UNIT
FCU	FAN COIL UNIT	SALP	SUPPLY AIR LOW PRESSURE
FD	FIRE DAMPER	SAMP	SUPPLY AIR MEDIUM PRESSURE
FI	FLOW INDICATOR	SD	SMOKE DETECTOR
FIT	FLOW INDICATING TRANSMITTER	SG	SUPPLY GRILLE
FO	FAIL OPEN	SR	SUPPLY REGISTER
FOB	FLAT ON BOTTOM	STM	STEAM
FOT	FLAT ON TOP	TCV	TEMPERATURE CONTROL VALVE
FURN	FURNACE	TG	TRANSFER GRILLE
GYP	GYPSUM BOARD	TI	TEMPERATURE INDICATOR
HEV	HAND EXPANSION VALVE	TIT	TEMPERATURE INDICATING TRANSMITTER
HHLS	HIGH HIGH LEVEL SWITCH	TT	TEMPERATURE TRANSMITTER
HLS	HIGH LEVEL SWITCH	TYP	TYPICAL
HWR	HEATING WATER RETURN	U.O.N.	UNLESS OTHERWISE NOTE
HWS	HEATING WATER SUPPLY	VAV	VARIABLE AIR VOLUME
LD	LINEAR DIFFUSER	VFD	VARIABLE FREQUENCY DRIVE

CODES REFERENCED	
-	2014 INDIANA MECHANICAL CODE (2012 IMC)
-	2014 INDIANA BUILDING CODE (2012 IBC)
-	ASHRAE 90.1-2010 (2012 IECC)

HVAC DESIGN CONDITIONS		
COOLING	OUTDOOR: 93°F DB/74°F WB	INDOOR: 74°F
HEATING	OUTDOOR: 0°F DB	INDOOR: 72°F

GENERAL NOTES

1. PROVIDE ALL LABOR, MATERIAL AND EQUIPMENT NECESSARY TO COMPLETELY FURNISH, INSTALL AND PLACE INTO OPERATIONS, ALL SYSTEMS SHOWN ON THE DRAWINGS AND DELINEATED IN THE SPECIFICATIONS IN ACCORDANCE WITH ALL STATE, LOCAL CODES AND ORDINACES. REPORT ANY KNOWN DISCREPANCIES TO THE ARCHITECT/ENGINEER PRIOR TO INSTALLATION.
2. DUCTWORK TO BE GALVANIZED, FABRICATED AND INSTALLED PER SMACNA AND CHAPTER 6 OF THE 2012 IMC. DUCTWORK SHALL BE CONSTRUCTED WITH A MINIMUM THICKNESS AS SPECIFIED IN SMACNA HVAC, "DUCT CONSTRUCTION STANDARD – METAL AND FLEXIBLE," AND CHAPTER 6, 2012 IMC.
3. DUCT DIMENSIONS INDICATE OUTSIDE DIMENSIONS OF DUCT. REFER TO DUCT CONSTRUCTION SCHEDULE FOR LINER THICKNESS. VERIFY EXACT ROUTING OF ALL DUCTWORK WITH EXISTING CONDITIONS AND MAINTAIN CLEAR OUTSIDE DIMENSIONS.
4. COORDINATE EXACT LOCATIONS OF AIR DEVICES WITH REFLECTED CEILING PLAN, LIGHTING LAYOUT AND EXISTING CONDITIONS.
5. BRANCH DUCT TO DIFFUSER TO BE SAME SIZE AS DIFFUSER NECK.
6. MAXIMUM FLEXIBLE DUCT LENGTH LIMITED TO 8'-0". FLEXIBLE DUCTS SHALL BE TESTED IN ACCORDANCE WITH UL181 AND SHALL BE LISTED AND LABELED AS CLASS 0 OR CLASS 1 PER CHAPTER 6, 2012 IMC.
7. COORDINATE EXACT LOCATION AND HEIGHT OF THERMOSTATS WITH FURNITURE PLAN AND OWNER.
8. FOR PURPOSES OF CLARITY AND LEGIBILITY, DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC ALTHOUGH SIZE AND LOCATION OF EQUIPMENT ARE SHOWN TO SCALE WHEREVER POSSIBLE.
9. ANY DISCREPANCIES OR EXISTING CONDITIONS DISCOVERED DURING CONSTRUCTION THAT PROHIBIT THE SUCCESSFUL COMPLETION OF WORK INDICATED ON THIS PLAN MUST BE REPORTED TO THE PROJECT MANAGER IMMEDIATELY.
10. DUCTWORK INSULATION SHALL CONFORM WITH CHAPTER 6, SECTION 604 OF THE 2012 IMC. COVERING AND LININGS, INCLUDING ADHESIVES, SHALL HAVE A FLAME SPREAD INDEX NOT MORE THAN 25 AND A SMOKE DEVELOPED INDEX NOT MORE THAN 50 WHEN TESTED WITH ACCORDANCE WITH ASTM E8A, UL 723, ASTM E 2231 AND ASTM C 411. INTERNAL DUCT LINING SHALL BE DURABLE AND TESTED IN ACCORDANCE WITH UL181.
11. ALL DUCT JOINTS, SEAMS AND CONNECTIONS SHALL BE SEALED AND FASTENED PER CHAPTER 6, SECTION 603.9, 2012 IMC.
12. EQUIPMENT TO BE INSTALLED PER MANUFACTURER'S GUIDELINES.
13. DUCT SHALL BE SUPPORTED WITH APPROVED HANGERS AT INTERVALS NOT EXCEEDING 10'-0" PER CHAPTER 6, SECTION 603.10, 2012 IMC.
14. ALL FIELD-INSTALLED POWER AND CONTROL WIRING FOR ALL MECHANICAL EQUIPMENT AND APPLIANCES SHALL BE IN ACCORDANCE WITH NPFA-70 AND THE NATIONAL ELECTRIC CODE.
15. PIPING INSULATION, COVERING AND LININGS, INCLUDING ADHESIVES SHALL HAVE A FLAME SPREAD INDEX NOT MORE THAN 25 AND A SMOKE DEVELOPED INDEX NOT MORE THAN 50 WHEN TESTED WITH ACCORDANCE WITH ASTM E8A, UL723, ASTM E 2231 AND ASTM C 411.
16. PIPING SHALL BE SUPPORTED WITH APPROVED HANGERS AT SPACINGS ACCORDANCE WITH CHAPER 3, SECTION 305, 2012 IMC.
17. ALL MATERIALS EXPOSED WITHIN PLENUMS SHALL BE NON-COMBUSTIBLE OR SHALL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE DEVELOPED INDEX OF NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTME E 84.
18. ASSUME THAT ALL OF THE HVAC EQUIPMENT'S SHORT-CIRCUIT CURRENT RATINGS MEETS OR EXCEEDS THE AVAILABLE FAULT CURRENT AT THE POINT OF APPLICATION.
19. ALL HVAC EQUIPMENT TO BE MARKED WITH THE SHORT-CIRCUIT CURRENT RATING PER NEC.
20. ALL DUCTWORK TO BE SIZED PER THE ASHRAE HANDBOOK OF FUNDAMENTALS OR OTHER EQUIVALENT COMPUTATION METHOD PER SECTION 603.2, 2012 IMC.
21. FOR FULL SCHEDULES, SPECIFICATIONS AND COMPLETE LISTING SEE DETAIL SHEETS.
22. MOUNT THERMOSTATS AT 60" ABOVE FINISHED FLOOR. MOUNT THERMOSTATS IN ADA UNITS AT 40" ABOVE FINISHED FLOOR.
23. ANY EQUIPMENT THAT IS SUBSTITUTED SHALL FIT IN THE SPACE PROVIDED WITH ADEQUATE ROOM FOR SERVICING, INCLUDING SUBSTITUTE EQUIPMENT NAMED IN THE SPECIFICATIONS. SUBMIT A 1/4" SCALE DRAWING OF ALL EQUIPMENT SUBSTITUTED FOR APPROVAL PRIOR TO INSTALLATION, INCLUDING, BUT NOT LIMITED TO, STRUCTURAL AND ARCHITECTURAL IMPACT, CLEARANCE REQUIREMENTS AND UTILITY REQUIREMENTS. IT IS THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR TO COORDINATE ALL NEW ELECTRICAL AND PLUMBING REQUIREMENTS WITH THE ELECTRICAL AND PLUMBING CONTRACTORS.
24. MAINTAIN CODE REQUIRED CLEARANCE TO COMBUSTIBLES FOR ALL GAS-FIRED EQUIPMENT.
25. ROUTE ALL AIR CONDITIONER CONDENSATE TO NEARBY FLOOR DRAIN. PROVIDE MINIMUM SLOPE OF 1/8" PER FOOT. SIZE CONDENSATE PER SECTION 307.2.2 OF THE 20125 IMC.
26. PROVIDE AN AUXILIARY DRAIN PAN WITH AN OVERFLOW SWITCH UNDERNEATH HORIZONTAL UNITS, WHICH WILL SHUT-OFF THE UNIT ON HIGH WATER LEVEL.
27. PROVIDE ALL BACKDRAFT DAMPERS FOR ALL EXHAUST SYSTEMS AND EITHER LOUVER, BRICK VENT OR CAPS AT ALL EXTERIOR BUILDING PENETRATIONS.

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CONSULTANT LOGO:
BID SET
09.13.2024

THE LANDING 3.0

NEW CONSTRUCTION
Columbia St., Indiana

REVISION

No.	Date	Revision

DRAWING CONTENTS:
MECHANICAL LEGENDS AND SYMBOLS

ISSUE DATE: Issue Date
PROJECT NO. 10665

DRAWING NO.
M-000

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AIR HANDLER UNIT SCHEDULE

OPTIONS/ACCESSORIES:

A.) PROGRAMMABLE THERMOSTAT
B.) CONDENSATE OVERFLOW SENSOR

TAG	BASIS OF DESIGN (OR APPROVED EQUAL)	MODEL NUMBER	FAN AND CFM INFORMATION			HEATING INFORMATION	ELECTRICAL INFORMATION			WEIGHT (LBS)	OPTIONS/ACCESSORIES
			ESP (IN WG)	SUPPLY CFM	OUTSIDE AIR CFM	ELECTRIC (KW)	VOLTAGE/PHASE	MCA	MOCP		
AHU-1	TEMPSTAR	FMA4X1800AL	0.50	600	0	5.0	208/1	25	30	105	A,B
AHU-2	TEMPSTAR	FMA4X2400AL	0.50	800	0	5.0	208/1	25	30	142	A,B
AHU-3	TEMPSTAR	FJMA4X24L0BC	0.50	800	160	5.0	208/1	28	30	135	A,B

HEAT PUMP UNIT SCHEDULE

OPTIONS/ACCESSORIES:

A.) EQUIPMENT RAILS - 18" TALL
B.) HEAT PUMP PUMP-UP PADS

TAG	BASIS OF DESIGN (OR APPROVED EQUAL)	MODEL NUMBER	ENERGY INFORMATION		COOLING/HEATING INFORMATION		ELECTRICAL INFORMATION			WEIGHT (LBS)	OPTIONS/ACCESSORIES
			EER	SEER	TOTAL COOLING (BTU)	TOTAL HEATING (BTU)	VOLTAGE/PHASE	MCA	MOCP		
HP-1	TEMPSTAR	DLCURAH18ABK	10.5	16	18,830	18,500	208/1	16	20	102	A
HP-2	TEMPSTAR	DLCURAH24ABK	10	17	24,193	27,200	208/1	20	35	145	A
HP-3	TEMPSTAR	N4H5S24AKAAA	12.5	15.2	23,600	23,600	0/1	15	25	159	B

FAN SCHEDULE

OPTIONS/ACCESSORIES:

A.) WALL CAP
B.) WALL LOUVER
C.) CEILING RADIATION DAMPER
D.) VIBRATION ISOLATION HANGERS
E.) FAN TO RUN ON A REVERSE ACTING THERMOSTAT

TAG	BASIS OF DESIGN (OR APPROVED EQUAL)	MODEL NUMBER	CFM	ESP (IN WG)	ELECTRICAL INFORMATION						WEIGHT (LBS)	OPTIONS/ACCESSORIES
					VOLTAGE/PHASE	MCA	MOCP	AMPS	RPM	WATTS		
CEF-1	BROAN	AE50	50	0.10	115/1	0.0	0	0.20	0	20	10	A,C
EF-1	Greenheck	CUE-080-VG	250	0.50	115/1	2.0	15	0.00	1,725	0	60	
EF-2	Greenheck	CSP-A200	150	0.38	115/1	0.0	0	0.46	748	94	30	B,D
EF-3	Greenheck	CUE-70-VG	150	0.15	115/1	1.6	15	1.30	1,069	0	45	E

HEATER SCHEDULE

OPTIONS/ACCESSORIES:

A.) INTEGRAL THERMOSTAT
B.) SURFACE MOUNTED
C.) SEM-RECESSED MOUNTING FRAME

TAG	BASIS OF DESIGN (OR APPROVED EQUAL)	MODEL NUMBER	HEATING (KW)	ELECTRICAL INFORMATION		MOUNTING	OPTIONS/ACCESSORIES
				VOLTAGE/PHASE	AMPS		
ECH-1	Marley Engineered Products	EFF1500	1.5	120/1	13	CEILING	A
EUH-1	Marley Engineered Products	MUH05-81	5.0	208/3	24	STRUCTURE ABOVE	A
EUH-2	Marley Engineered Products	MUH05-81	5.0	208/3	24	STRUCTURE ABOVE	A
EUH-3	Marley Engineered Products	MUH05-81	5.0	208/3	24	STRUCTURE ABOVE	A
EUH-4	Marley Engineered Products	MUH05-81	5.0	208/3	24	STRUCTURE ABOVE	A
EUH-5	Marley Engineered Products	MUH03-21	2.2	208/1	11	STRUCTURE ABOVE	A
EUH-6	Marley Engineered Products	MUH03-81	3.0	208/1	15	WALL	A
EWH-1	Marley Engineered Products	CWH1151DSF	1.5	120/1	13	WALL	A,C
EWH-2	Marley Engineered Products	CWH1151DSF	1.5	120/1	13	WALL	A,B

ROOFTOP UNIT SCHEDULE

OPTIONS/ACCESSORIES:

A.) PROGRAMMABLE THERMOSTAT
B.) ROOF CURB - 14" TALL

TAG	BASIS OF DESIGN (OR APPROVED EQUAL)	MODEL NUMBER	TONS	FAN INFORMATION		OA CFM	ENERGY INFORMATION		COOLING INFORMATION		HEATING INFORMATION	ELECTRICAL INFORMATION				WEIGHT (LBS)	OPTIONS/ACCESSORIES
				ESP (IN WG)	SUPPLY CFM		EER	SEER	SENSIBLE (MBH)	TOTAL (MBH)	ELEC HEAT (KW)	VOLTAGE	PHASE	MCA	MOCP		
RTU-1	ICP Commercial	PHD436000H00K	3	0.50	1,200	0	11	13.4	24.4	36.0	10	208	3	45	45	420	A,B

DUCT PRESSURE CLASS AND INSULATION SPECIFICATIONS

APPLICATION	DUCT TYPE	PRESSURE CLASS	INSULATION LOCATION	INSULATION THICKNESS	COMMENTS
DRYER DUCT	METAL, MINIMUM 0.016" THICK	-2"	N-A	N-A	SMOOTH INTERIOR FINISH, INSTALLED PER 2012 IMC, 504.6
RETURN AIR DUCTWORK	GALVANIZED	-2"	N-A	N-A	
SUPPLY AIR DUCTWORK - LOW PRESSURE	GALVANIZED	+2"	EXTERNAL	2.2"	3/4 LB/CU FT DENSITY; R6 MINIMUM
TOILET OR GENERAL EXHAUST AIR DUCTWORK	GALVANIZED	-2"	N-A	N-A	

PIPE, FITTING, AND VALVE SPECIFICATIONS

APPLICATION	PIPE TYPE	FITTING TYPE	VALVE TYPE	COMMENTS
REFRIGERATION PIPING	ACR COPPER	BRAZED	N-A	INSULATED LINE SETS
WSHP CONDENSATE PIPING	CPVC	GLUED	N-A	RATED FOR PLENUM USE

AIR DEVICE SCHEDULE

OPTIONS/ACCESSORIES:

A.) CEILING RADIATION DAMPER - FOR UL RATED P522 ASSEMBLY
B.) SQUARE TO ROUND ADAPTOR - SEE...
C.) INSULATED PLENUM
D.) CEILING RADIATION DAMPER - POTTORFF M/N# CFD-521-90

TAG	BASIS OF DESIGN (OR APPROVED EQUAL)	MODEL	MODULE SIZE	NECK CONNECTION INFORMATION			SLOT INFORMATION		MOUNTING	MATERIAL	OPTIONS/ACCESSORIES
				DIAMETER	WIDTH	HEIGHT	NUMBER OF SLOTS	SLOT WIDTH			
CD-1	Price Industries	SCD	24"X24"	8"	0"	0"			ACT CEILING	STEEL	
EG-1	Price Industries	80	12"X12"	0"	10"	10"			ACT CEILING	ALUMINUM	A
EG-2	Price Industries	80	12"X12"	0"	10"	10"			ACT CEILING	ALUMINUM	B
LD-1	PRICE	SDS100	48" LONG	0"	0"	0"	1	1"	GYP CEILING	ALUMINUM	C
RG-1	Price Industries	80	24"X12"	0"	22"	10"			ACT CEILING	ALUMINUM	B
RG-2	TRUAIRE	270	19-3/4"X13-1/4"	0"	18"	12"			WALL	STEEL	
SR-1	TRUAIRE	220	11-3/4"X7-3/4"	0"	10"	6"			GYP CEILING	ALUMINUM	D
SR-2	TRUAIRE	220	11-3/4"X7-3/4"	0"	10"	6"			WALL	STEEL	

FIRE/SMOKE DAMPER SCHEDULE

OPTIONS/ACCESSORIES:

A.) FUSIBLE LINK
B.) RETAINING ANGLE

TAG	BASIS OF DESIGN (OR APPROVED EQUAL)	MODEL NUMBER	TYPE	DAMPER SIZE			RATING	SLEEVE LENGTH	OPTIONS/ACCESSORIES
				DIAMETER	WIDTH	HEIGHT			
ECH-8	Greenheck Fan Corporation	DFDR-510	A	6"	0"	0"	1.5	13 5/8"	A,B
FD1-1	Greenheck Fan Corporation	DFD-150X	A	0"	12"	10"	1.5	12"	A,B
FD1-2	Greenheck Fan Corporation	DFD-150X	A	0"	12"	10"	1.5	12"	A,B
FD1-3	Greenheck Fan Corporation	DFD-150X	A	0"	10"	10"	1.5	12"	A,B
FD1-4	Greenheck Fan Corporation	DFD-150X	A	0"	10"	10"	1.5	12"	A,B
FD1-5	Greenheck Fan Corporation	DFD-150X	A	0"	12"	10"	1.5	12"	A,B
FD1-6	Greenheck Fan Corporation	DFD-150X	A	0"	12"	10"	1.5	12"	A,B
FD1-7	Greenheck Fan Corporation	DFD-150X	A	0"	12"	10"	1.5	12"	A,B
FD1-8	Greenheck Fan Corporation	DFD-150X	A	0"	10"	10"	1.5	12"	A,B
FD1-9	Greenheck Fan Corporation	DFD-150X	A	0"	12"	10"	1.5	12"	A,B
FD2-1	Greenheck Fan Corporation	DFDR-510	A	6"	0"	0"	1.5	13 5/8"	A,B
FD2-2	Greenheck Fan Corporation	DFDR-510	A	8"	0"	0"	1.5	13 5/8"	A,B
FD2-3	Greenheck Fan Corporation	DFDR-510	A	8"	0"	0"	1.5	13 5/8"	A,B
FD3-1	Greenheck Fan Corporation	DFDR-510	A	6"	0"	0"	1.5	13 5/8"	A,B
FD3-2	Greenheck Fan Corporation	DFDR-510	A	8"	0"	0"	1.5	13 5/8"	A,B
FD3-3	Greenheck Fan Corporation	DFDR-510	A	8"	0"	0"	1.5	13 5/8"	A,B
FD4-1	Greenheck Fan Corporation	DFDR-510	A	6"	0"	0"	1.5	13 5/8"	A,B
FD4-2	Greenheck Fan Corporation	DFDR-510	A	8"	0"	0"	1.5	13 5/8"	A,B
FD4-3	Greenheck Fan Corporation	DFDR-510	A	8"	0"	0"	1.5	13 5/8"	A,B
FD5-1	Greenheck Fan Corporation	DFDR-510	A	6"	0"	0"	1.5	13 5/8"	A,B
FD5-2	Greenheck Fan Corporation	DFDR-510	A	8"	0"	0"	1.5	13 5/8"	A,B
FD5-3	Greenheck Fan Corporation	DFDR-510	A	8"	0"	0"	1.5	13 5/8"	A,B
FD6-2	Greenheck Fan Corporation	DFDR-510	A	8"	0"	0"	1.5	13 5/8"	A,B
FD6-3	Greenheck Fan Corporation	DFDR-510	A	8"	0"	0"	1.5	13 5/8"	A,B

LOUVER SCHEDULE

OPTIONS/ACCESSORIES:

A.) GRAVITY BACKDRAFT DAMPER
B.) NO DAMPER FOR DRYER DUCT CONNECTION
C.) ALL LOUVER ASSEMBLIES TO BE COLOR MATCHED TO A SHERWIN WILLAMS PAINT COLOR SELECTED BY ARCHITECT TO MATCH THE CLADDING MATIERAL THE LOUVER FALLS IN. (3) COLORS WILL EXIST ON PROJECT MATCHING PNL-01, PNL-02, MAS-01.

TAG	BASIS OF DESIGN (OR APPROVED EQUAL)	MODEL NUMBER	DAMPER	FINISH	SIZE INFORMATION			MOUNTING	OPTIONS/ACCESSORIES
					WIDTH	HEIGHT	THICKNESS		
L-1	XVENTBOX VENTILATION SYSTEMS	6SEB-BR	YES	MILL	9 1/2"	8 1/2"	3/4"	WALL	A,C
L-2	XVENTBOX VENTILATION SYSTEMS	DHEB-84L-BR	YES	MILL	13 1/2"	9 1/2"	3/4"	WALL	A,C
L-3	XVENTBOX VENTILATION SYSTEMS	DHEB-44-BR	YES	MILL	13 1/2"	9 1/2"	3/4"	WALL	A,B,C
L-4	XVENT BOX VENTILATION SYSTEMS	4SEB-BR	YES	MILL	9 1/2"	8 1/2"	3/4"	WALL	A,C
L-5	XVENTBOX VENTILATION SYSTEMS	THEB-444-BR	YES	MILL	13 1/2"	9 1/2"	3/4"	WALL	A,B,C

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THE LANDING 3.0

NEW CONSTRUCTION
Columbia St., Indiana

REVISION

No.	Date	Revision

DRAWING CONTENTS:
MECHANICAL SCHEDULES

ISSUE DATE:	PROJECT NO:
Issue Date	10665

DRAWING NO.
M-001

Zone AHU-3 Ventilation

System Primary Airflow: V_{pz}	557 CFM	Zone Air Distribution Effectiveness: E_z	0.8
Average Outdoor Air Fraction: X_s	0.155	Primary Air Fraction to Zone: E_p	1
Occupant Diversity: D	1	Secondary Air Fraction to Zone: E_r	1
Uncorrected Air Intake: V_{oz}	86 CFM	Fraction of Supply Air to Zone from Outside Zone: F_a	1
System Ventilation Efficiency: E_v	0.972	Fraction of Supply Air to Zone from Fully Mixed Primary Air: F_b	1
Outdoor Air Intake: V_{ot}	89 CFM 0.16	Fraction of Outdoor Air to Zone from Outside Zone: F_c	1

Room Information

Room	Room Type	People Outdoor Air			Area Outdoor Air			Breathing Zone Outside Airflow (CFM) V_{bz}	Zone Outdoor Airflow (CFM) V_{oz}	Zone Discharge Airflow (CFM) V_{dz}	Discharge Outdoor Air Fraction Z_d	Zone Ventilation Efficiency E_{vz}
		Rate (CFM/ person) R_p	People P_z	Total (CFM) R_p*P_z	Rate (CFM/ ft²) R_a	Area (ft²) A_z	Total (CFM) R_a*A_z					
Lobby 108	Office-Main Entry Lobbies	5	4	20	0.06	325	20	40	50	274	0.182	0.972
Mail/Package 101	Office-Office Space	5	2	10	0.06	218	14	24	30	246	0.122	1.04
Recycle 104	Public Spaces-Corridors	0	0	0	0.06	72.6	5	5	6	37	0.162	0.998

VENTILATION CALCULATIONS PER TABLE 403.3 OF THE 2012 IMC.

Zone RTU-1 Ventilation

System Primary Airflow: V_{pz}	1,200 CFM	Zone Air Distribution Effectiveness: E_z	0.8
Average Outdoor Air Fraction: X_s	0.26	Primary Air Fraction to Zone: E_p	1
Occupant Diversity: D	1	Secondary Air Fraction to Zone: E_r	1
Uncorrected Air Intake: V_{oz}	313 CFM	Fraction of Supply Air to Zone from Outside Zone: F_a	1
System Ventilation Efficiency: E_v	0.988	Fraction of Supply Air to Zone from Fully Mixed Primary Air: F_b	1
Outdoor Air Intake: V_{ot}	250 CFM 0.208	Fraction of Outdoor Air to Zone from Outside Zone: F_c	1

Room Information

Room	Room Type	People Outdoor Air			Area Outdoor Air			Breathing Zone Outside Airflow (CFM) V_{bz}	Zone Outdoor Airflow (CFM) V_{oz}	Zone Discharge Airflow (CFM) V_{dz}	Discharge Outdoor Air Fraction Z_d	Zone Ventilation Efficiency E_{vz}
		Rate (CFM/ person) R_p	People P_z	Total (CFM) R_p*P_z	Rate (CFM/ ft²) R_a	Area (ft²) A_z	Total (CFM) R_a*A_z					
213 - CORRIDOR	Public Spaces-Corridors	0	0	0	0.06	515	31	31	39	240	0.163	0.988
313 - CORRIDOR	Public Spaces-Corridors	0	0	0	0.06	515	31	31	39	240	0.163	0.988
413 - CORRIDOR	Public Spaces-Corridors	0	0	0	0.06	515	31	31	39	240	0.163	0.988
513 - CORRIDOR	Public Spaces-Corridors	0	0	0	0.06	515	31	31	39	240	0.163	0.988
613 - CORRIDOR	Public Spaces-Corridors	0	0	0	0.06	515	31	31	39	240	0.163	0.988

VENTILATION CALCULATIONS PER TABLE 403.3 OF THE 2012 IMC.

NATURAL VENTILATION SCHEDULE

THE LANDING 3.0 (TYP OF ALL FLOORS)

UNIT	ROOM NAME	AREA	DOOR OPENABLE AREA [SQ....	WINDOW OPENABLE AREA [SQ....	UNOBSTRUCED OPENING	TOTAL OPENABLE AREA	4% OF FLOOR AREA	8% OF FLOOR AREA
UNIT A 2BED	BEDROOM "H"	126	0	32	N/A	32	5	N/A
	BEDROOM "K"	143	0	14	N/A	14	6	N/A
	LIVING ROOM "F"	411	21	32	N/A	53	16	N/A
UNIT B 1BED	BEDROOM "C"	129	0	14	N/A	14	5	N/A
	LIVING ROOM "B"	323	0	14	N/A	14	13	N/A
UNIT C 2BED	BEDROOM "K"	129	0	14	N/A	14	5	N/A
	BEDROOM "I"	136	0	14	N/A	14	5	N/A
	LIVING ROOM "H"	311	21	42	N/A	63	12	N/A
UNIT D 1BED	BEDROOM "E"	157	0	14	N/A	14	6	N/A
	LIVING ROOM "B"	372	21	28	N/A	49	15	N/A
UNIT E STUDIO	BEDROOM "A"	82	0	0	N/A	0	N/A	7
	LIVING ROOM "F"	220	0	32	N/A	32	N/A	18
UNIT F STUDIO	LIVING ROOM "D"	230	0	28	N/A	28	9	N/A
UNIT D ADA 1BED	BEDROOM "ADA"	167	0	14	N/A	0	7	N/A
	LIVING ROOM	343	21	42	N/A	63	14	N/A
UNIT E ADA 1BED	BEDROOM "ADA"	88	0	0	N/A	0	N/A	7
	LIVING ROOM	226	0	42	N/A	42	N/A	18

NATURAL VENTILATION CALCULATIONS PER SEC 402.1 OF 2012 IMC

NATURAL VENILATION OF THE OCCUPIED SPACE SHALL BE THROUGH WINDOWS, DOORS, OR OTHER OPENINGS TO THE SPACE. THE OPERATING MECHANISIM FOR SUCH OPENINGS SHALL BE PROVIDED WITH READY ACCESS SO THAT THE OPENINGS ARE READILY CONTROLLABLE BY THE BUILDING OCCUPANTS.

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BID SET
09.13.2024

THE LANDING 3.0

NEW CONSTRUCTION
Columbia St., Indiana

REVISION

No.	Date	Revision

DRAWING CONTENTS:
VENTILATION SCHEDULES

ISSUE DATE: Issue Date
PROJECT NO. 10665

DRAWING NO.
M-002

MECHANICAL SPECIFICATIONS

1. GENERAL

a. REFER TO ARCHITECTURAL DRAWINGS, GENERAL NOTES, INSTRUCTIONS TO BIDDERS, GENERAL CONDITIONS, SUPPLEMENTARY GENERAL CONDITIONS, BASE BUILDING SPECIFICATIONS AND DRAWINGS, SHOP DRAWING MANUALS AND AS-BUILT PLANS, EXCEPT AS NOTED HEREIN, WHICH APPLY IN ALL RESPECTS TO THIS SECTION. THE CONTRACTOR SHALL VISIT THE SITE AND FAMILIARIZE HIMSELF WITH ALL EXISTING CONDITIONS PRIOR TO BIDDING THE WORK

2. USE OF DRAWINGS AND SPECIFICATIONS

a. EBS DRAWINGS AND SPECIFICATIONS ARE INTENDED TO CONVEY DESIGN INTENT ONLY. ALL MEANS AND METHODS SEQUENCES, TECHNIQUES, AND PROCEDURES OF CONSTRUCTION AS WELL AS ANY ASSOCIATED SAFETY PRECAUTIONS AND PROGRAMS, AND ALL INCIDENTAL AND TEMPORARY DEVICES REQUIRED TO CONSTRUCT THE PROJECT, AND TO PROVIDE A COMPLETE AND FULLY OPERATIONAL MECHANICAL SYSTEM ARE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR.

3. STANDARDS

a. EQUIPMENT AND MATERIALS SHALL CONFORM WITH APPROPRIATE PROVISIONS OF AGA, ARI, ASME, ASTM, CISPI, UL, NEMA, ANSI, SMACNA, ASHRAE, NFPA, NEC, AS APPLICABLE TO EACH INDIVIDUAL UNIT OR ASSEMBLY. ALL EQUIPMENT MUST BEAR UL LABEL.

4. LICENSE / EXPERIENCE

a. CONTRACTOR MUST BE LICENSED BY THE STATE TO INSTALL HVAC SYSTEMS/EQUIPMENT. CONTRACTOR MUST ALSO HAVE A MINIMUM OF 5 YEARS OF EXPERIENCE AND HAVE INSTALLED AT LEAST (5) SUCCESSFUL PROJECT INSTALLATIONS OF SIMILAR SIZE AND SCOPE. REFERENCES MUST BE PROVIDED UPON REQUEST.

5. CODES

a. ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH ALL APPLICABLE STATE AND LOCAL CODES AND ORDINANCES. THE MECHANICAL CONTRACTOR SHALL SATISFY CODE REQUIREMENTS AT A MINIMUM WITHOUT ANY EXTRA COST TO THE OWNER. IN CASE OF CONFLICT BETWEEN THE DRAWINGS/SPECIFICATIONS AND THE CODES AND ORDINANCES, THE HIGHEST STANDARD SHALL APPLY.

6. PERMITS AND FEES

a. THE MECHANICAL CONTRACTOR SHALL PROCURE AND PAY FOR ALL PERMITS, FEES, TAXES, AND INSPECTIONS NECESSARY TO COMPLETE THE MECHANICAL WORK. FURNISH CERTIFICATE OF APPROVAL FOR WORK FROM INSPECTION AUTHORITY TO OWNER BEFORE FINAL ACCEPTANCE FOR WORK. CERTIFICATE OF FINAL INSPECTION AND APPROVAL SHALL BE SUBMITTED WITH THE CONTRACTOR'S REQUEST FOR PAYMENT. NO FINAL PAYMENT WILL BE APPROVED WITHOUT THIS CERTIFICATE.

7. SITE EXAMINATION

a. THE MECHANICAL CONTRACTOR SHALL THOROUGHLY EXAMINE ALL AREAS OF WORK WHERE EQUIPMENT, DUCTWORK, AND PIPING WILL BE INSTALLED AND SHALL REPORT ANY CONDITION THAT, IN HIS OPINION, PREVENTS THE PROPER INSTALLATION OF THE MECHANICAL WORK PRIOR TO BID. CONTRACTOR SHALL ALSO EXAMINE THE DRAWINGS AND SPECIFICATIONS OF OTHER BRANCHES OF WORK, MAKING REFERENCE TO THEM FOR DETAILS OF NEW OR EXISTING BUILDING CONDITIONS. NO EXTRAS WILL BE ALLOWED FOR FAILURE TO INCLUDE ALL REQUIRED WORK IN BID.

b. ALL WORK SHALL BE DONE AT TIMES CONVENIENT TO THE OWNER AND ONLY DURING NORMAL WORKING HOURS, UNLESS SPECIFIED OTHERWISE.

c. MECHANICAL CONTRACTOR SHALL TAKE THEIR OWN MEASUREMENTS AND BE RESPONSIBLE FOR THEM.

d. ACCESS PANELS ARE NOT SHOWN ON DRAWINGS. DURING SITE EXAMINATION, CONTRACTOR SHALL IDENTIFY ALL AREAS WHERE ACCESS PANELS ARE REQUIRED, AND REPORT TO GENERAL CONTRACTOR. DESIGNATION OF WHO FURNISHES AND WHO INSTALLS ACCESS PANELS MUST BE COORDINATED WITH GENERAL CONTRACTOR PRIOR TO STARTING WORK.

8. CONTRACTOR COORDINATION

a. COORDINATION DRAWINGS SHOWING SYSTEM AND COMPONENT INSTALLATION LAYOUT, ROUTING, DETAILS, ETC. SHALL BE PRODUCED BY THE MECHANICAL CONTRACTOR AND UNDER THE SUPERVISION OF THE GENERAL CONTRACTOR/CONSTRUCTION MANAGER, OR APPROPRIATE PARTY AS APPLICABLE.

b. ALL SYSTEMS INSTALLED BY EACH SUB-CONTRACTOR SHALL BE COORDINATED WITH ONE ANOTHER AND APPROVED BY GENERAL CONTRACTOR/CONSTRUCTION MANAGER, ETC. PRIOR TO INSTALLATION AND/OR FABRICATION.

c. IF QUESTIONS CONCERNING DESIGN INTENT ARISE DURING COORDINATION, EBS CAN ASSIST WHERE APPROPRIATE.

d. THE ARCHITECTURAL DRAWINGS SHALL TAKE PRECEDENCE OVER ALL OTHER DRAWINGS. DO NOT SCALE DISTANCES OFF THE MECHANICAL DRAWINGS; USE ACTUAL BUILDING DIMENSIONS.

9. SHOP DRAWINGS / SUBMITTALS

a. SUBMIT TO THE ARCHITECT ELECTRONIC COPIES OF COMPLETE AND CERTIFIED SHOP DRAWINGS, DESCRIPTIVE DATA, PERFORMANCE DATA AND RATINGS, DIAGRAMS AND SPECIFICATIONS ON ALL SPECIFIED EQUIPMENT, INCLUDING ACCESSORIES, AND MATERIALS FOR REVIEW. THE MAKE, MODEL NUMBER, TYPE, FINISH AND ACCESSORIES OF ALL EQUIPMENT AND MATERIALS SHALL BE REVIEWED AND APPROVED BY THE MECHANICAL CONTRACTOR AND GENERAL CONTRACTOR PRIOR TO SUBMITTING TO THE ARCHITECT FOR THEIR REVIEW AND APPROVAL. APPROVAL OF SHOP DRAWINGS DOES NOT RELIEVE THE MECHANICAL CONTRACTOR/VENDOR FROM COMPLIANCE WITH THE REQUIREMENTS OF THE CONTRACT DRAWINGS, SPECIFICATIONS AND APPLICABLE CODES.

b. SHOP DRAWINGS SHALL BE REQUIRED FOR THE FOLLOWING:

- HVAC EQUIPMENT
- FANS
- DIFFUSERS, REGISTERS, GRILLES, DAMPERS, LOUVERS, AND ALL SHEET METAL ACCESSORIES
- TEMPERATURE CONTROLS
- SHEET METAL COORDINATION DRAWINGS

c. AIR BALANCE REPORT PRODUCTS INSTALLED BY THE MECHANICAL CONTRACTOR AND PROVIDED BY OTHERS MUST BE SUBMITTED FOR REVIEW PRIOR TO PURCHASING. PRODUCTS SHALL NOT BE SELECTED BASED ON PERMIT DRAWINGS WITHOUT EXPRESS PERMISSION - PRODUCTS SHALL BE SELECTED BASED ON CONSTRUCTION DRAWINGS.

10. RECORD DRAWING

a. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR CREATING RECORD DRAWINGS WHERE REQUIRED. DRAWINGS SHALL BE PRODUCED IN AUTOCAD 2004 FORMAT OR LATER.

11. TESTING

a. ALL MECHANICAL SYSTEMS SHALL BE TESTED FOR PROPER OPERATION.

12. FIRE STOPPING

a. PROVIDE FIRE STOPPING AT ALL PENETRATIONS THROUGH RATED SEPARATIONS PER LOCAL CODES & REGULATIONS & PER UL RECOMMENDATIONS FOR ASSEMBLIES ENCOUNTERED IN PROJECT.

b. THE FIRE STOPPING MATERIAL SHALL MEET THE INTEGRITY OF THE FIRE RATED WALL, FLOOR, CEILING & ROOF BEING PENETRATED. REFER TO ARCHITECT'S DRAWINGS FOR WALL, FLOOR, CEILING & ROOF FIRE RATINGS PRIOR TO BIDDING WORK.

c. REFER TO ARCHITECT'S DRAWINGS FOR WALL, FLOOR, CEILING, AND ROOF FIRE RATINGS PRIOR TO BIDDING WORK.

13. ACCESS PANELS

a. PROVIDE CEILING AND WALL ACCESS PANEL QUANTITIES & LOCATIONS TO THE GENERAL CONTRACTOR PRIOR TO BIDDING. ACCESS PANELS ARE REQUIRED FOR ALL CONCEALED APPLIANCES, CONTROLS DEVICES, HEAT EXCHANGERS AND HVAC SYSTEM COMPONENTS THAT UTILIZE ENERGY. WHERE ACCESS PANELS ARE USED, THE ACCESS PANEL SHOULD BE SIZED TO ALLOW ACCESSIBILITY FOR INSPECTION, SERVICE, REPAIR AND REPLACEMENT WITHOUT DISABLING THE FUNCTION OF A FIRE-RESISTANCE-RATED ASSEMBLY OR REMOVING PERMANENT CONSTRUCTION, OTHER APPLIANCES, VENTING SYSTEMS OR ANY OTHER PIPING OR DUCTS NOT CONNECTED TO THE APPLIANCE BEING INSPECTED, SERVICED, REPAIRED OR REPLACED. THERE SHALL BE NO EXTRAS FOR HAVING TO ADD ACCESS PANELS AFTER BIDS ARE AWARDED.

14. CUTTING AND PATCHING

a. NEATLY DO ALL CUTTING AS REQUIRED AND PATCH ALL CUT SURFACES TO MATCH BUILDING CONSTRUCTION. THE CONTRACTOR SHALL EMPLOY AND PAY A TRADE TRAINED AND QUALIFIED TO PERFORM THE REQUIRED PATCHING WORK. ALL SURFACES DISTURBED SHALL BE RESTORED WITH LIKE MATERIALS TO THE SATISFACTION OF THE OWNER. ALL PENETRATIONS THROUGH ROOF SHALL BE MADE BY BONDED ROOFER. MECHANICAL CONTRACTOR SHALL PAY ALL FEES REQUIRED.

15. FLASHING & COUNTERFLASHING

a. ROOF FLASHING SHALL BE FURNISHED AND INSTALLED BY THE ROOFING CONTRACTOR. ROOF COUNTERFLASHING SHALL BE FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR. COORDINATE WORK WITH ROOFING CONTRACTOR AND PAY ALL FEES.

b. OBTAIN APPROVAL FROM GENERAL CONTRACTOR, CONSTRUCTION MANAGER, OWNER AND/OR ROOFING CONTRACTOR PRIOR TO MAKING ANY PENETRATIONS SO THAT WARRANTIES ARE NOT COMPROMISED OR VOIDED.

16. WARRANTY

a. THE MECHANICAL CONTRACTOR SHALL UNCONDITIONALLY WARRANT ALL WORK TO BE FREE OF DEFECTS IN EQUIPMENT, MATERIAL AND WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE BY OWNER. THE MECHANICAL CONTRACTOR WILL REPAIR OR REPLACE ANY DEFECTIVE WORK PROMPTLY AND WITHOUT CHARGE TO THE OWNER.

b. RESTORE ANY OTHER EXISTING WORK DAMAGED IN THE COURSE OF REPAIRING DEFECTIVE EQUIPMENT, MATERIALS AND WORKMANSHIP.

17. MECHANICAL WORK

a. THE MECHANICAL CONTRACTOR SHALL PROVIDE NEW HVAC EQUIPMENT, FANS, DUCTWORK, PIPING, AIR DEVICES, CONTROLS AS INDICATED ON DRAWINGS AND AS SPECIFIED. STARTUP AND 1ST YEAR PARTS AND LABOR WARRANTY SHALL BE INCLUDED AND MANUFACTURER'S EXTENDED WARRANTIES. EQUIPMENT AND APPLIANCES SHALL BE INSTALLED AS REQUIRED BY THE TERMS OF THEIR APPROVAL, IN ACCORDANCE WITH THE CONDITIONS OF THE LISTING, THE MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND THE APPLICABLE CODE.

18. OWNER'S INSTRUCTIONS

a. PROVIDE TWO SETS OF COMPLETE OPERATING AND MAINTENANCE INSTRUCTIONS WITH DRAWINGS, TYPEWRITTEN INSTRUCTIONS AND OPERATING SEQUENCES AND DESCRIPTIVE DATA SHEETS. ASSEMBLE EACH SET IN A HARD-BOUND COVER. PROVIDE PDF FILES OF ALL DOCUMENTATION.

19. FINALE

a. PUT ALL EQUIPMENT IN SERVICE AND DEMONSTRATE THAT ALL CONDITIONS OF THE CONTRACT HAVE BEEN FULFILLED. REMOVE ALL TOOLS, DEBRIS, ETC. OCCASIONED BY WORK UNDER THIS CONTRACT. MECHANICAL CONTRACTOR TO PROVIDE A NEW SET OF FILTERS IN ALL HVAC UNITS PRIOR TO TURNOVER. SUBMIT ALL WARRANTIES, TEST REPORTS, OPERATING AND MAINTENANCE MANUALS FOR HVAC SYSTEMS, LOG SHEETS AND CHARTS, AND GUARANTEES AS PREVIOUSLY SPECIFIED. PROVIDE ALL REPORTS, FORMS, ETC. REQUIRED BY INSPECTORS TO THE SATISFACTION OF THE OWNER. PROVIDE AS-BUILT RECORD DRAWINGS (IN AUTOCAD 2007 OR LATER) SHOWING AN ACCURATE ACCOUNT OF THE FINAL INSTALLED SYSTEMS. SYSTEMS INCLUDING BUT NOT LIMITED TO ALL EQUIPMENT AND ASSOCIATED CONTROLS, DUCTWORK/PIPING, AIR DEVICES, ETC.

20. SHEETMETAL DUCTWORK

a. ALL SIZES OF DUCTS SHOWN ON THE DRAWINGS ARE INTERIOR DUCT DIMENSIONS. ALL DUCTWORK SHALL BE RIGID SHEETMETAL CONSTRUCTED FROM GALVANIZED SHEET STEEL IN ACCORDANCE WITH SMACNA LOW VELOCITY DUCT CONSTRUCTION STANDARDS. ALL EXPOSED DUCTWORK SHALL BE ROUND, SPIRAL, OR RECTANGULAR LOCK-SEAM TYPE, AS SHOWN ON HVAC DRAWINGS. ASSEMBLE AND INSTALL DUCTWORK IN ACCORDANCE WITH RECOGNIZED INDUSTRY PRACTICE FOR ACHIEVING AIR TIGHT (5% LEAKAGE) AND NOISELESS (NO OBJECTIONABLE NOISE) SYSTEMS, CAPABLE OF PERFORMING EACH INDICATED SERVICE. FURNISH ALL REQUIRED DAMPERS, TRANSITIONS, OFFSETS, CONNECTIONS TO AIR DEVICES, AND OTHER ACCESSORIES NECESSARY FOR A COMPLETE OPERATING SYSTEM. FLEXIBLE DUCTWORK SHALL NOT EXCEED 8'-0" LONG.

b. ALL 90-DEGREE DUCT TURNS MUST BE 1.5 RADIUS ELBOWS. IF A 1.5 RADIUS ELBOW WILL NOT FIT, SQUARE ELBOWS WITH TURNING VANES CAN BE PROVIDED IN LIEU OF RADIUS BUT SHOULD BE LIMITED TO ONLY AREAS WHERE THERE ARE SPACE CONSTRAINTS.

c. ALL TAKEOFF/BRANCH DUCTWORK MUST UTILIZE BOOT OR CONICAL TEE FITTINGS.

21. ADHESIVES AND SEALANTS

a. SEAL ALL LONGITUDINAL AND TRANSVERSE DUCT JOINTS WITH A UL 181A OR 181B NON-HARDENING, NON-MIGRATING MASTIC OR LIQUID ELASTIC SEALANT OF A TYPE RECOMMENDED BY THE MANUFACTURER FOR SEALING JOINTS AND SEAMS IN SHEET METAL DUCTWORK. COVER ALL FIELD JOINTS, JOINTS AROUND SPIN-IN FITTINGS AND FASTENING SCREWS WITH MASTIC. ALL SEALANTS AND GASKETS SHALL HAVE SURFACE-BURNING CHARACTERISTICS WITH A MAXIMUM FLAME-SPREAD INDEX OF 25 AND A MAXIMUM SMOKE-DEVELOPED INDEX OF 50 WHEN TESTED ACCORDING TO UL 723.

b. EXPOSED DUCTWORK: TRIM DUCT SEALANTS FLUSH WITH METAL. CREATE A SMOOTH AND UNIFORM EXPOSED BEAD. DO NOT USE TWO-PART TAPE SEALING SYSTEM.

22. DUCT SUPPORTS

a. FURNISH AND INSTALL HOT-DIPPED GALVANIZED STEEL FASTENERS, HANGERS, ANCHORS, RODS, STRAPS, TRIM, AND ANGLES FOR SUPPORT OF DUCTWORK.

23. FLEXIBLE CONNECTIONS

a. FURNISH AND INSTALL NEOPRENE FLEXIBLE DUCT CONNECTIONS AT THE INLET AND DISCHARGE OF UNITS AND FANS.

24. DUCT MANUAL VOLUME DAMPERS

a. FURNISH AND INSTALL OPPOSED-BLADE, LEAK-PROOF VOLUME CONTROL DAMPERS WHERE INDICATED ON DRAWINGS AND LOCATIONS IN SUPPLY, RETURN AND EXHAUST DUCTS WHERE BRANCHES ARE TAKEN FROM LARGER DUCTS OR AT EACH INDIVIDUAL DUCT REGISTER IN ORDER TO ACHIEVE SYSTEM AIR BALANCE QUANTITIES. BALANCING DEVICES MUST BE PROVIDED IN ACCORDANCE WITH IMC 603.18. ALL MANUAL VOLUME DAMPERS MUST BE SHOWN ON COORDINATION DRAWINGS WHEN SUBMITTED FOR REVIEW.

25. FIRE DAMPERS

a. FURNISH AND INSTALL UL555 LISTED FIRE DAMPERS AS SHOWN ON THE DRAWINGS AND IN ACCORDANCE WITH NFPA AND LOCAL AND STATE CODES. REFER TO ARCHITECTURAL DRAWINGS FOR ALL RATED WALLS, FLOORS, AND ROOFS. FIRE DAMPERS SHALL BE UL LABELED AND INSTALLED AS SHOWN ON THE DRAWINGS OR AS REQUIRED BY NFPA AND CODES. DAMPERS AND SLEEVES SHALL MEET CONSTRUCTION REQUIREMENTS OF NFPA 90A, 92A, AND 92B. DAMPERS SHALL BE AMCA LICENSED FOR AIR PERFORMANCE. DAMPER CONSTRUCTION SHALL BE A MINIMUM 16-GAUGE STEEL FRAME FOR SQUARE OR RECTANGULAR DUCTS AND 14-GAUGE STEEL FRAME FOR ROUND DUCTS. DAMPER BLADES SHALL BE 16-GAUGE GALVANIZED STEEL. BEARINGS AND JAMB SEALS SHALL BE STAINLESS STEEL. EACH FIRE DAMPER SHALL HAVE A RATING THAT MEETS THE FIRE RESISTANCE REQUIREMENT OF THE ASSEMBLY RATING AND SHALL BE SUPPLIED WITH A 165-DEGREE F FUSIBLE LINK. PROVIDE ALL NECESSARY SLEEVES, ANGLES, ETC. REQUIRED TO PROVIDE AN INSTALLATION IN ACCORDANCE WITH THE DAMPER MANUFACTURER'S INSTALLATION INSTRUCTIONS. DAMPERS SHALL BE APPROVED FOR VERTICAL OR HORIZONTAL MOUNTING AS REQUIRED BY THE LOCATION SHOWN AND SHALL BE LABELED FOR USE IN DYNAMIC SYSTEMS.

26. DUCT ACCESS DOORS

a. FURNISH AND INSTALL CONVENIENTLY LOCATED DUCT ACCESS DOORS OF AMPLE SIZE AND QUANTITY FOR SERVICING THE DAMPERS.

27. DIFFUSERS, GRILLES AND REGISTERS

a. DIFFUSERS, GRILLES AND REGISTERS SHALL BE MANUFACTURED BY TRU-AIRE, TITUS, PRICE, OR ENGINEERED APPROVED EQUAL AND SHALL BE FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR. DIFFUSERS SHALL BE INSTALLED AS INDICATED ON THE DRAWINGS AND SCHEDULES. THE MECHANICAL CONTRACTOR SHALL PROVIDE ALL MISCELLANEOUS ITEMS NECESSARY FOR A COMPLETE AND PROPER INSTALLATION IN THE TYPE OF CEILING AND WALLS USED IN THIS PROJECT.

28. EXHAUST FAN

a. FAN MANUFACTURER SHALL BE BROAN, PANASONIC, COOK, GREENHECK, OR ENGINEERED APPROVED EQUAL.

b. REFER TO DRAWINGS AND SCHEDULES FOR UNIT LOCATION, TECHNICAL DATA, AND ANY APPLICABLE ACCESSORIES.

29. ROOFTOP UNIT

a. OUTDOOR, ROOFTOP MOUNTED, ELECTRICALLY CONTROLLED, HEATING AND COOLING UNIT UTILIZING SCROLL COMPRESSORS FOR COOLING AND NATURAL GAS FOR HEATING. UNIT SHALL HAVE STANDARD MANUFACTURER WARRANTY ON PARTS. INSTALL PER MANUFACTURER'S REQUIREMENTS.

b. REFER TO DRAWINGS AND SCHEDULES FOR UNIT LOCATION, TECHNICAL DATA, AND ACCESSORIES.

c. ROOFTOP MANUFACTURER SHALL BE TRANE, AAON, CARRIER, OR ENGINEERED APPROVED EQUAL..

33. DUCTED SPLIT SYSTEMS

a. SPLIT SYSTEMS SHALL CONSIST OF HIGH EFFICIENT AIR HANDLING UNIT AND ASSOCIATED HEAT PUMP. EQUIPMENT SHALL HAVE MANUFACTURER'S STANDARD WARRANTY.

b. SPLIT SYSTEM MANUFACTURER SHALL BE TEMPSTAR, CARRIER, GOODMAN, OR ENGINEERED APPROVED EQUAL.

34. ELECTRIC WALL HEATERS

a. BACK BOX: THE BACK BOX SHALL BE DESIGNED AS A RECESSED ROUGH-IN BOX IN EITHER MASONRY OR FRAME INSTALLATIONS AND IS ALSO USED WHEN SURFACE MOUNTING FRAMES ARE USED IN SURFACE MOUNTING INSTALLATIONS. THE BACK BOX SHALL BE HEAVY GAUGE GALVANIZED STEEL AND SHALL CONTAIN KNOCKOUTS THROUGH WHICH POWER LEADS ENTER.

b. INNER FRAME ASSEMBLY: THE HEATER ASSEMBLY, WHICH FITS INTO THE BACK BOX, SHALL CONSIST OF A HEAVY GAUGE STEEL FAN PANEL TO WHICH ALL OF THE OPERATIONAL PARTS OF THE HEATER ARE MOUNTED. THE INNER FRAME ASSEMBLY SHALL BE COMPLETELY PRE-WIRED.

c. HEATING ELEMENT: THE HEATING ELEMENT SHALL BE OF THE NON-GLOWING DESIGN CONSISTING OF AN 80/20 NICKEL-CHROMIUM RESISTANCE WIRE ENCLOSED IN A STEEL SHEATH TO WHICH PLATE FINS ARE COPPER BRAZED. THE ELEMENT SHALL COVER THE ENTIRE AIR DISCHARGE AREA TO ENSURE UNIFORM HEATING OF ALL DISCHARGED AIR. IT SHALL BE WARRANTIED FOR 5 YEARS.

d. ON/OFF SWITCH: A DOUBLE-POLE, SINGLE THROW ON/OFF SWITCH SHALL BE MOUNTED ON THE BACK BOX FOR POSITIVE DISCONNECT OF POWER SUPPLY. IT WILL BE COMPLETELY CONCEALED BEHIND THE FRONT COVER.

e. MOTOR AND CONOTROLS: THE FAN MOTOR SHALL BE IMPEDANCE PROTECTED, PERMANTLY LUBRICATED. FAN CONTROL SHALL BE OF THE BI-METALLIC, SNAP-ACTION TYPE AND SHALL ACTIVATE FAN AFTER HEATING ELEMENT REACHES OPERATING TEMPERATURE, AND CONTINUE TO OPERATE THE FAN AFTER THE THERMOSTAT IS SATISIFIED AND UNTIL ALL HEATED AIR HAS BEEN DISCHARGED. THE THERMOSTAT SHALL BE SINGLE-POLE TYPE ON ALL MODELS. THERMAL CUTOUT SHALL BE SELF-HOLD (MANUAL-RESET) TYPE DESIGNED TO SHUT OFF HEAT IN THE EVENT OF OVERHEATING. THE FAN SHALL BE FOUR-BLADED ALUMINUM. A BACK-UP (END OF LIFE) THERMAL FUSE SHALL BE PROVIDED FOR ADDITIONAL SAFETY.

f. SURFACE MOUNTING FRAME: THE SURFACE MOUNTING FRAME SHALL BE HEAVY GAUGE STEEL DESIGNED TO MOUNT AROUND THE BACK BOX FOR A FINISHED SURFACE INSTALLATION. SLOT KNOCK OUTS SHALL BE PROVIDED FOR PWOER SUPPLY CONDUIT.

g. FRONT COVER: THE LOUVERED FRONT COVER SHALL BE OF HEAVY GAUGE STEEL WITH A POWDER PAINT FINISH. A PLUG BUTTON WILL BE PROVIDED TO REPLACE THE THERMOSTAT KNOB AND RENDER THE UNIT TAMPER-RESISTANT.

h. FINISH: ALL SHEET METAL PARTS, EXCEPT THE GALVANIZED STEEL BACK BOX, SHALL BE PHOSPHATIZED, THEN COMPLETELY PAINTED BY A POWDER PAINT PROCESS.

i. REFER TO DRAWINGS AND SCHEDULES FOR UNIT LOCATION, TECHNICAL DATA AND ANY APPLICABLE ACCESSORIES.

j. ELECTRIC WALL HEATER MANUFACTURER SHALL BE MARLEY, QMARK, BERKO OR ENGINEERED APPROVED EQUAL.

35. CONDENSATE DRAIN PIPING

a. THE MECHANICAL CONTRACTOR SHALL FURNISH AND INSTALL CONDENSATE DRAINS, P-TRAPS WITH REMOVABLE CLEANOUT CAPS FOR AIR EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. THE P-TRAP DEPTH SHALL BE AT LEAST THE DEPTH SPECIFIED FOR THE RESPECTIVE PRESSURE DROP OF THE UNIT. CONDENSATE DRAIN PIPING SHALL BE SCHEDULE 40 PVC PIPE WITH SOLVENT WELD FITTINGS. ALL CONDENSATE DRAIN LINES SHALL BE CONFIGURED TO PERMIT THE CLEARING OF BLOCKAGES AND PERFORMANCE OF MAINTENANCE WITHOUT REQUIRING THE DRAIN LINE TO BE CUT. FOR CONDENSATE PUMPS LOCATED IN UNINHABITABLE SPACES (I.E. ATTICS AND CRAWL SPACES), PROVIDE CONTROLS THAT WILL SHUT DOWN THE EQUIPMENT IF THE CONDENSATE PUMP FAILS.

b. ALL COOLING EQUIPMENT SHALL HAVE A WET SWITCH IN THE PRIMARY DRAIN LINE, THE OVERFLOW DRAIN LINE, OR IN THE EQUIPMENT-SUPPLIED DRAIN PAN (LOCATED AT A POINT HIGHER THAN THE PRIMARY DRAIN LINE CONNECTION AND BELOW THE OVERFLOW RIM OF THE PAN) THAT WILL SHUT DOWN THE UNIT WHEN THE CONDENSATE IS CLOGGED.

36. PIPING SUPPORTS (METAL PIPE)

a. FURNISH AND INSTALL HOT-DIPPED GALVANIZED STEEL FASTENERS, HANGERS, ANCHORS, RODS, STRAPS, TRIM AND ANGLES FOR SUPPORT OF PIPING.

37. PIPING SUPPORTS (PLASTIC PIPE)

a. FURNISH AND INSTALL HANGERS FOR PLASTIC PIPING PER MANUFACTURER'S REQUIREMENTS.

38. TEMPERATURE CONTROLS AND CONTROL WIRING

a. THE MECHANICAL CONTRACTOR SHALL PROVIDE ALL CONTROL WIRING NECESSARY FOR THE COMPLETE AND PROPER OPERATING TEMPERATURE CONTROL SYSTEM. PROGRAMMABLE THERMOSTATS SHALL BE PROVIDED WITH EQUIPMENT PACKAGES UNLESS OTHERWISE NOTED.

b. EXPOSED WIRING: ALL WIRING EXPOSED TO THE SPACE SHALL BE RUN IN CONDUIT. COORDINATE REQUIREMENTS WITH ARCHITECTURAL DRAWINGS.

39. TESTING, BALANCING, AND ADJUSTING

a. THE INDIVIDUAL PERFORMING THE AIR BALANCING SHALL BE A CERTIFIED TEST AND BALANCER AND A MEMBER OF NEBB OR AABC, USING CALIBRATED EQUIPMENT. THE CERTIFIED AIR BALANCE CONTRACTOR SHALL ACCURATELY BALANCE THE SYSTEMS TO PROVIDE AIR QUANTITIES AS INDICATED ON THE DRAWINGS AND IN THE SCHEDULES/SPECIFICATIONS, OPERATE AUTOMATIC CONTROL SYSTEMS, AND VERIFY SET POINTS DURING BALANCING.

40. SEQUENCE OF OPERATION

a. HEATERS

1. EUH-X/EWH-X: HEATER SHALL BE CONTROLLED FROM THE INTEGRAL THERMOSTAT. WHEN THE TEMPERATURE OF THE SPACE DROPS BELOW THE THERMOSTAT SETPOINT, THE HEATER FAN SHALL RUN AND THE ELECTRIC HEATING ELEMENT SHALL ENGAGE TO MAINTAIN TEMPERATURE SETPOINT.

b. EXHAUST FANS

1. EF-X: EXHAUST FAN SHALL RUN ON A TIMECLOCK (PROVIDED BY THE ELECTRICAL CONTRACTOR). THE FAN SHALL BE SET TO RUN DURING OCCUPIED MODE AS DETERMINED BY THE ARCHITECT/OWNER.
2. CEF-X: EXHAUST FAN SHALL OPERATE ON A SWITCH.
3. EF-3: EXHUAST FAN TO RUN ON A REVERSE ACTING THERMOSTAT IN THE ELEVATOR SHAFT.

c. ROOFTOP UNITS

1. RTU-X: UNIT SHALL BE CONTROLLED FROM A THERMOSTAT IN THE SPACE.
2. HEATING MODE - WHEN THE THERMOSTAT CALLS FOR HEATING THE FAN SHALL RUN AND THE GAS FIRED HEAT EXCHANGER SHALL FIRE TO MAINTAIN TEMPERATURE SETPOINT. WHEN THE SETPOINT IS REACHED THE HEATER SHALL SHUT OFF.
3. COOLING MODE - WHEN THE THERMOSTAT CALLS FOR COOLING THE REFRIGERATION SYSTEM SHALL ENGAGE, THE FAN SHALL RUN, AND THE DX COOLING COIL SHALL COOL THE AIR TO MAINTAIN TEMPERATURE SETPOINT. WHEN THE SETPOINT IS REACHED, THE REFRIGERATION SYSTEM SHALL SHUT OFF.
4. VENTILATION - THE FAN SHALL RUN DURING OCCUPIED MODE TO PROVIDE THE REQUIRED BUILDING VENTILATION/ MAKEUP AIR.
5. ECONOMIZER MODE - WHEN THE ECONOMIZER IS ENABLED (THE OUTSIDE AIR ENTHALPY IS LOWER THAN THE RETURN AIR ENTHALPY), THE ECONOMIZER BECOMES THE FIRST STAGE OF COOLING. THE ECONOMIZER DAMPER WILL MODULATE TO MAINTAIN SPACE TEMPERATURE.

d. SPLIT SYSTEMS

- AHU/CU-X:
- HEATING MODE - INDOOR FURNACES SHALL BE CONTROLLED FROM A THERMOSTAT IN THE SPACE. WHEN THE THERMOSTAT CALLS FOR HEATING THE FAN SHALL RUN AND THE GAS FIRED HEAT EXCHANGER SHALL FIRE TO MAINTAIN TEMPERATURE SETPOINT. WHEN THE SETPOINT IS REACHED THE UNIT SHALL SHUT OFF.
- COOLING MODE - WHEN THE THERMOSTAT CALLS FOR COOLING THE CONDENSING UNIT SHALL ENGAGE, THE FURNACE FAN SHALL RUN, AND THE DX COOLING COIL SHALL COOL THE AIR TO MAINTAIN TEMPERATURE SETPOINT.

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09.13.2024

THE LANDING 3.0

NEW CONSTRUCTION
Columbia St., Indiana

REVISION

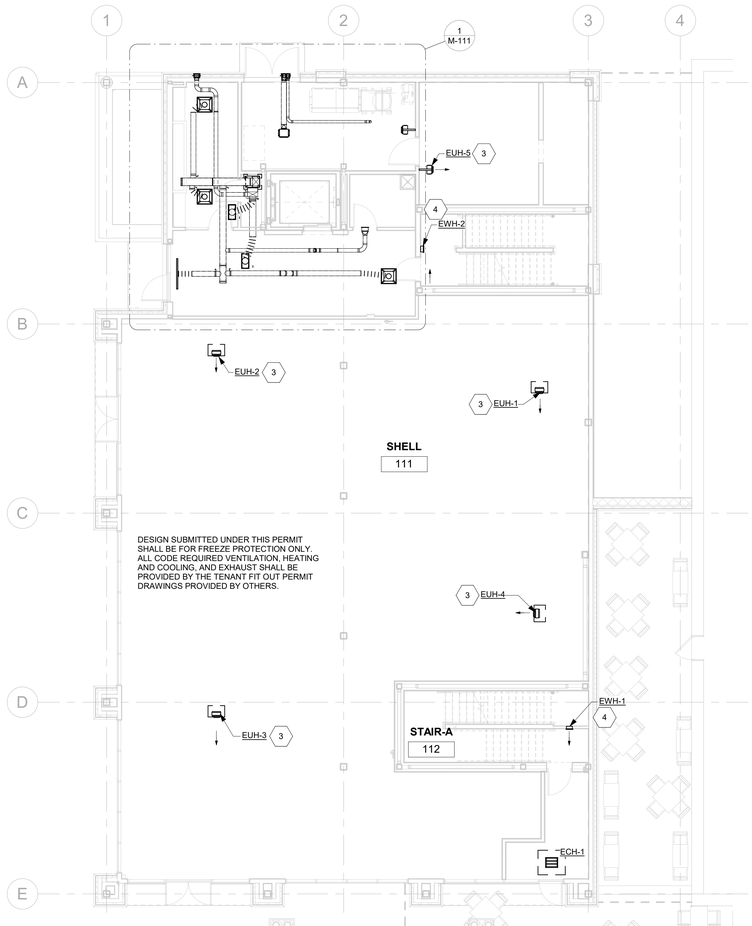
No.	Date	Revision

DRAWING CONTENTS:
MECHANICAL
SPECIFICATIONS

ISSUE DATE:
Issue Date

PROJECT NO.
10665

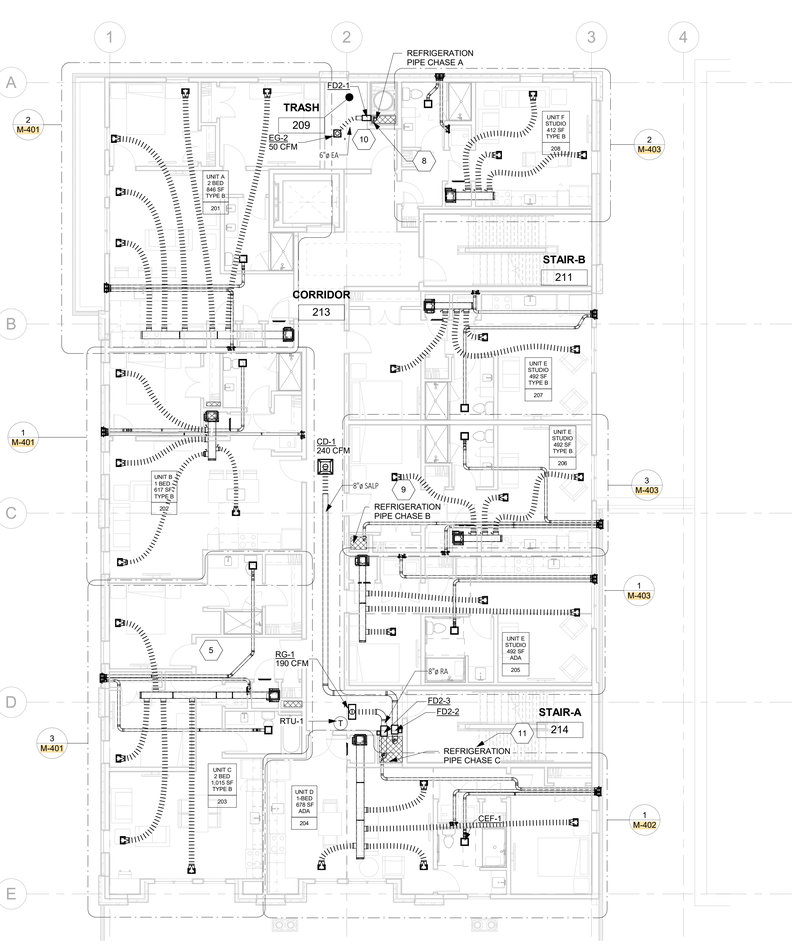
DRAWING NO.
M-003



MECHANICAL PLAN 1ST FLOOR OVERALL

1/8" = 1'-0"

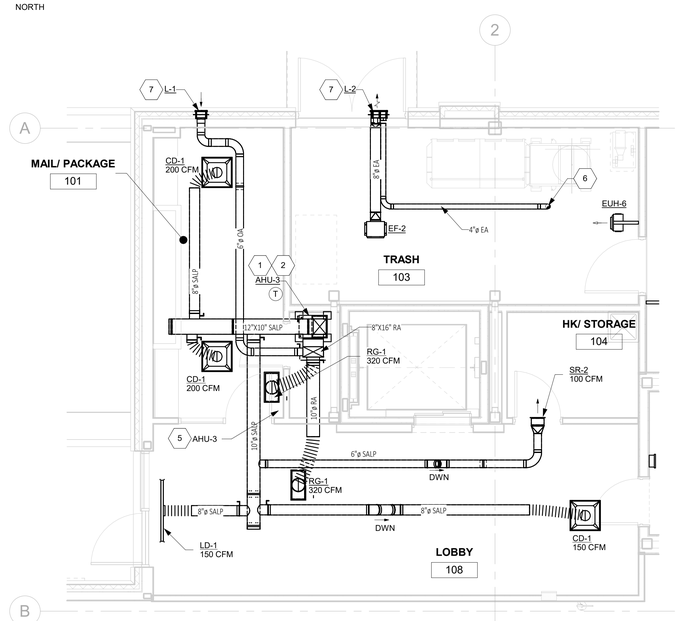
NORTH



MECHANICAL PLAN 2ND FLOOR OVERALL

1/8" = 1'-0"

NORTH



MECHANICAL PLAN 1ST FLOOR ENLARGED AREA

1/4" = 1'-0"

NORTH

SHEET NOTES

CODED NOTE NUMBER	DESCRIPTION
1	FIELD COORDINATE REFRIGERATED LINE SET. VERIFY SIZE WITH MANUFACTURER PRIOR TO FINAL INSTALLATION.
2	FIELD COORDINATE CONDENSATE PIPING TO NEAREST FLOOR DRAIN OR MOP SINK.
3	PROVIDE AND INSTALL NEW ELECTRIC UNIT HEATER. INSTALL UNIT AS HIGH POSSIBLE.
4	PROVIDE AND INSTALL NEW ELECTRIC WALL HEATER. INSTALL UNIT 12" MINIMUM ABOVE FINISHED FLOOR.
5	PROVIDE AND INSTALL A PROGRAMMABLE THERMOSTAT. INTERLOCK WITH UNIT AS SHOWN. VERIFY FINAL LOCATION AND HEIGHT WITH OWNER/ARCHITECT PRIOR TO FINAL INSTALLATION.
6	4"Ø RELIEF AIR DUCT UP TO BOTTOM OF REFRIGERATION PIPE CHASE A. REFER TO 2ND FLOOR OVERALL PLAN VIEW THIS SHEET FOR LOCATION.
7	MECHANICAL CONTRACTOR TO COORDINATE WALL OPENING SIZE WITH GENERAL CONTRACTOR. SEAL WALL OPENING AS REQUIRED TO PREVENT WATER FROM ENTERING IN THE BUILDING. SEE ARCHITECTURAL DRAWINGS FOR FINAL LOCATIONS.
8	4"Ø RELIEF AIR DUCT DOWN TO 1ST FLOOR BELOW. REFER TO 1ST FLOOR ENLARGED PLAN VIEW THIS SHEET FOR LOCATION.
9	LOCATION OF PIPE CHASE FOR REFRIGERATION PIPING. PROVIDE A 4"Ø EXHAUST AIR DUCT WITHIN 6" ABOVE THE BOTTOM OF THE CHASE TO VENTILATE THE CHASE IN CASE OF POTENTIAL REFRIGERATION LEAK.
10	EXHAUST DUCT UP TO EXHAUST FAN ON THE ROOF. REFER TO SHEET M-114 FOR LOCATION.
11	SUPPLY/RETURN AIR DUCT UP TO ROOFTOP UNIT. REFER TO SHEET M-114 FOR LOCATION.

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NEW CONSTRUCTION
Columbia St., Indiana

REVISION		
No.	Date	Revision

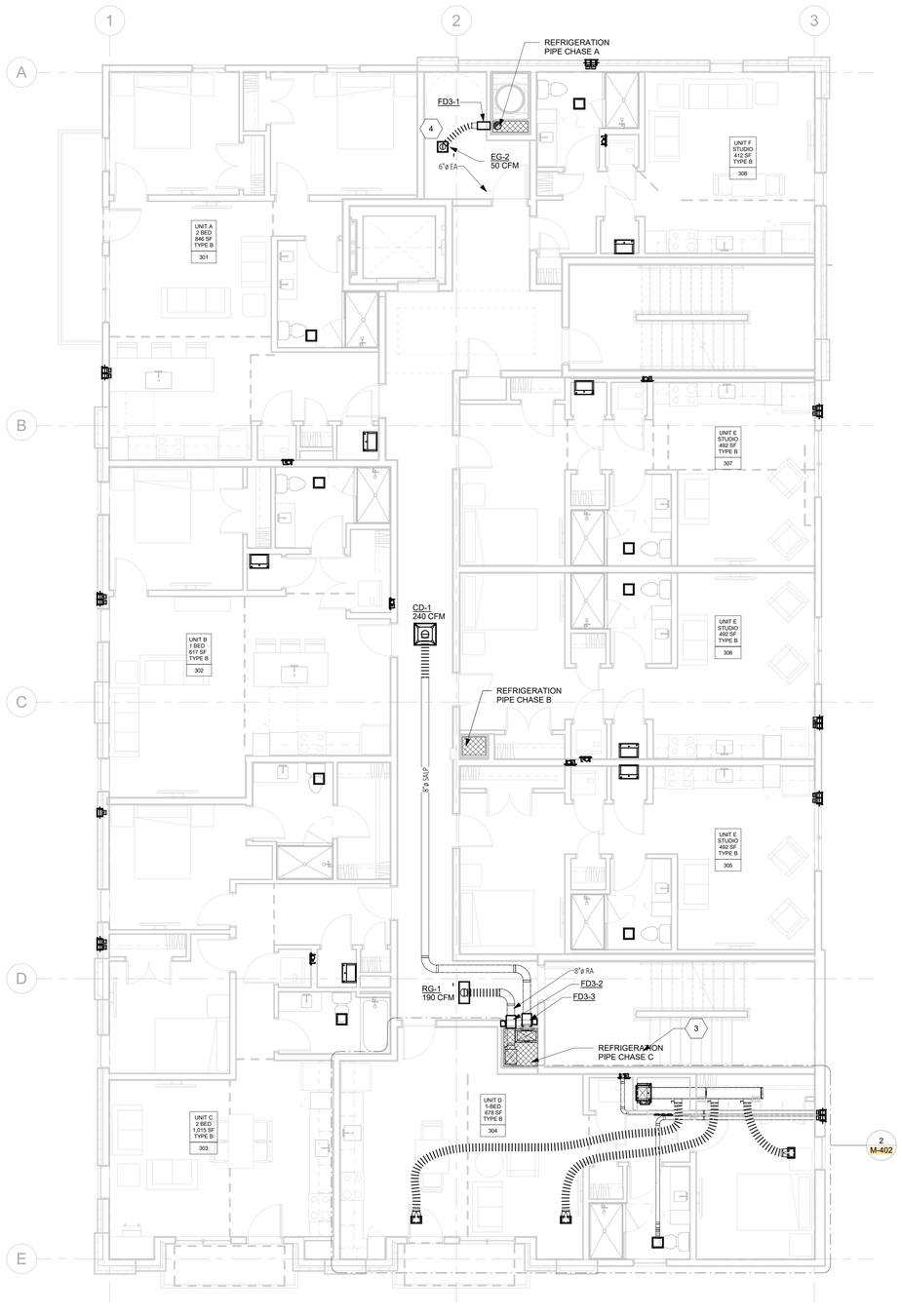
DRAWING CONTENTS:
MECHANICAL PLAN 1ST & 2ND FLR OVERALL PLAN

ISSUE DATE: Issue Date
PROJECT NO. 10665

DRAWING NO.
M-111

SHEET NOTES

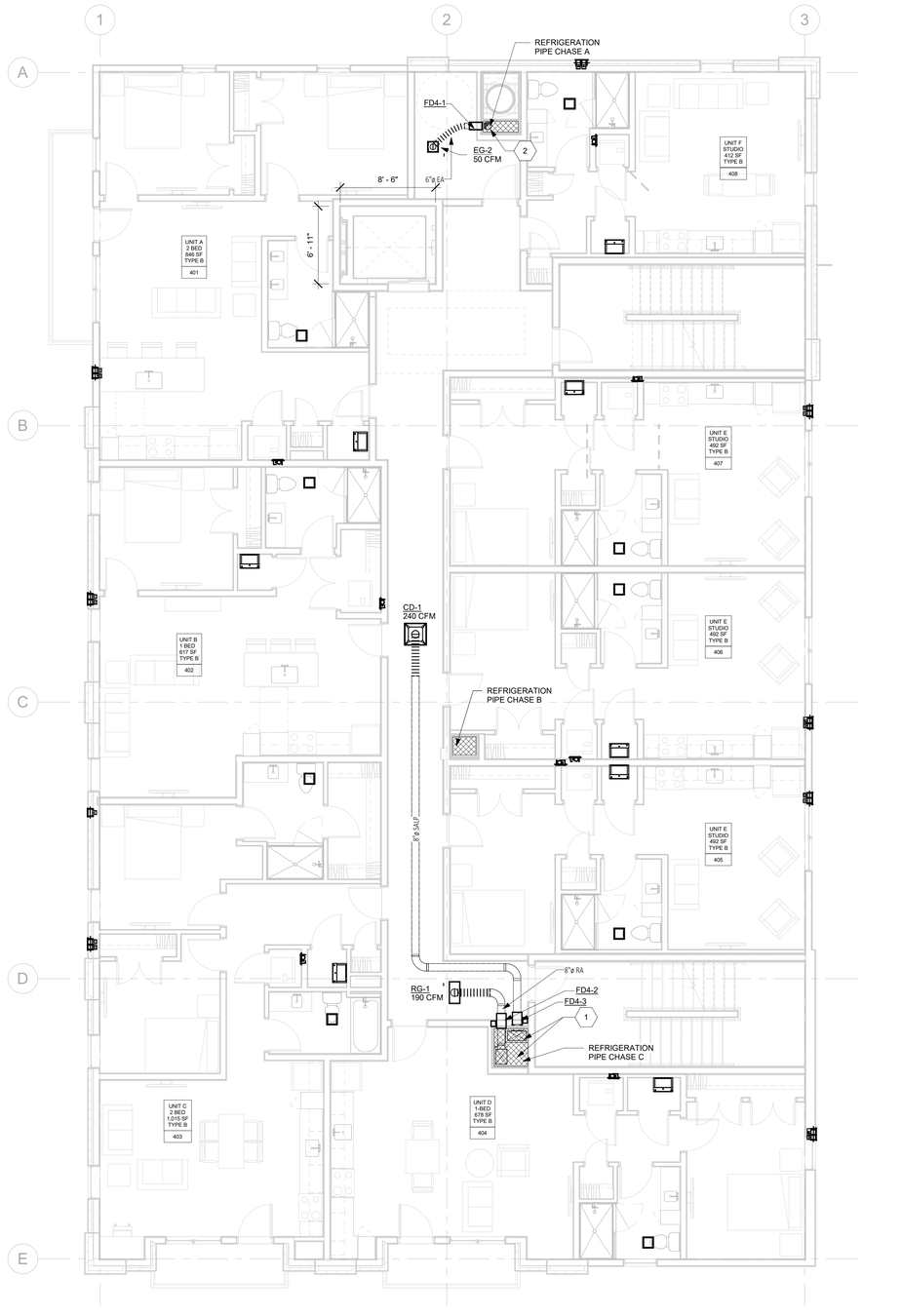
CODED NOTE NUMBER	DESCRIPTION
1	SUPPLY/RETURN AIR DUCT UP TO ROOF AND DOWN TO 3RD FLOOR.
2	EXHAUST DUCT UP TO ROOF AND DOWN TO 3RD FLOOR.
3	SUPPLY/RETURN AIR DUCT UP TO ROOF AND DOWN TO 2ND FLOOR.
4	EXHAUST DUCT UP TO ROOF AND DOWN TO 2ND FLOOR.



MECHANICAL PLAN 3RD FLOOR OVERALL

3/16" = 1'-0"

NORTH



MECHANICAL PLAN 4TH FLOOR OVERALL

3/16" = 1'-0"

NORTH

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Columbia St., Indiana

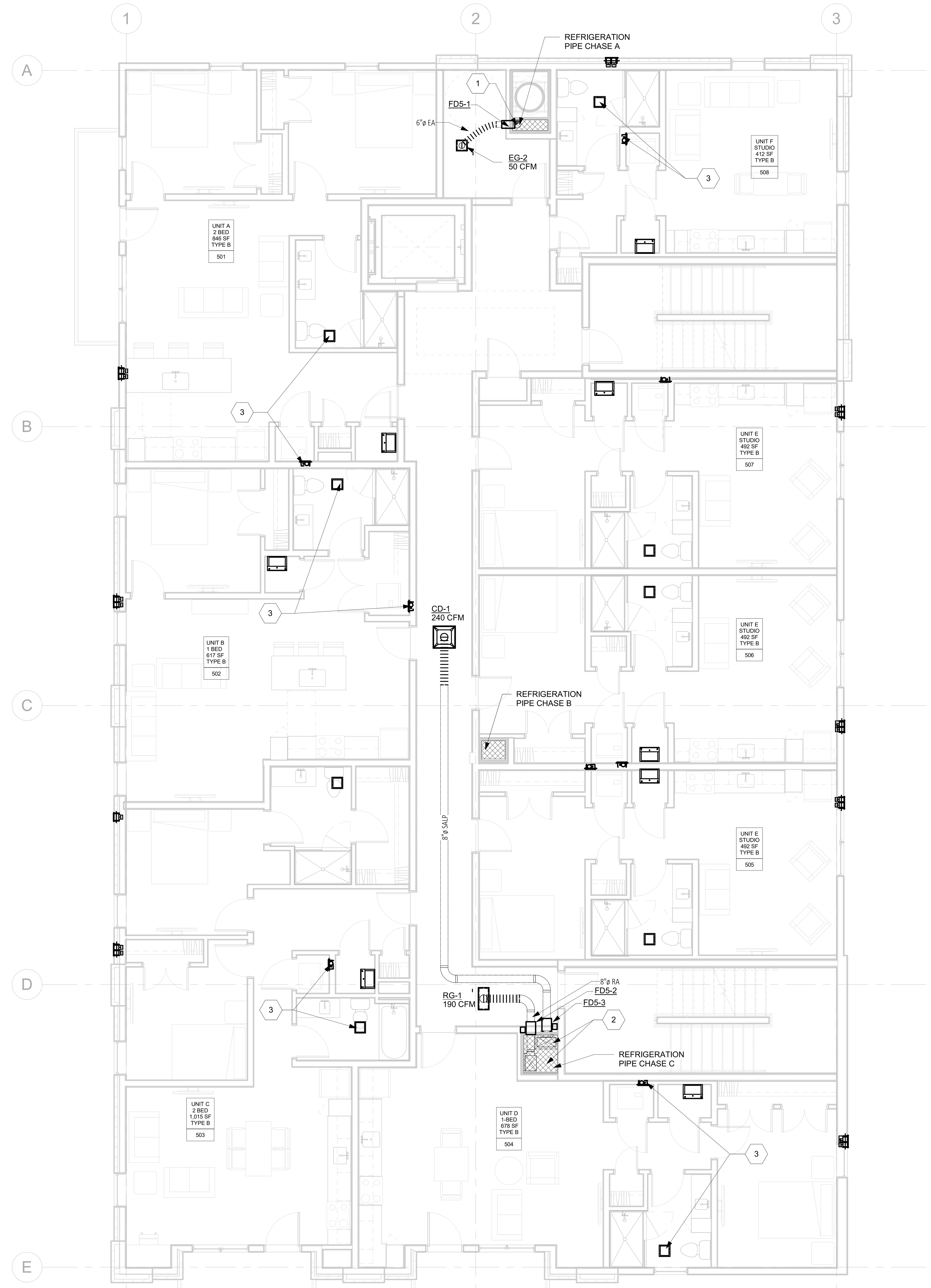
REVISION

No.	Date	Revision

DRAWING CONTENTS:
MECHANICAL PLAN 3RD & 4TH FLOOR OVERALL PLAN

ISSUE DATE: Issue Date
PROJECT NO. 10665

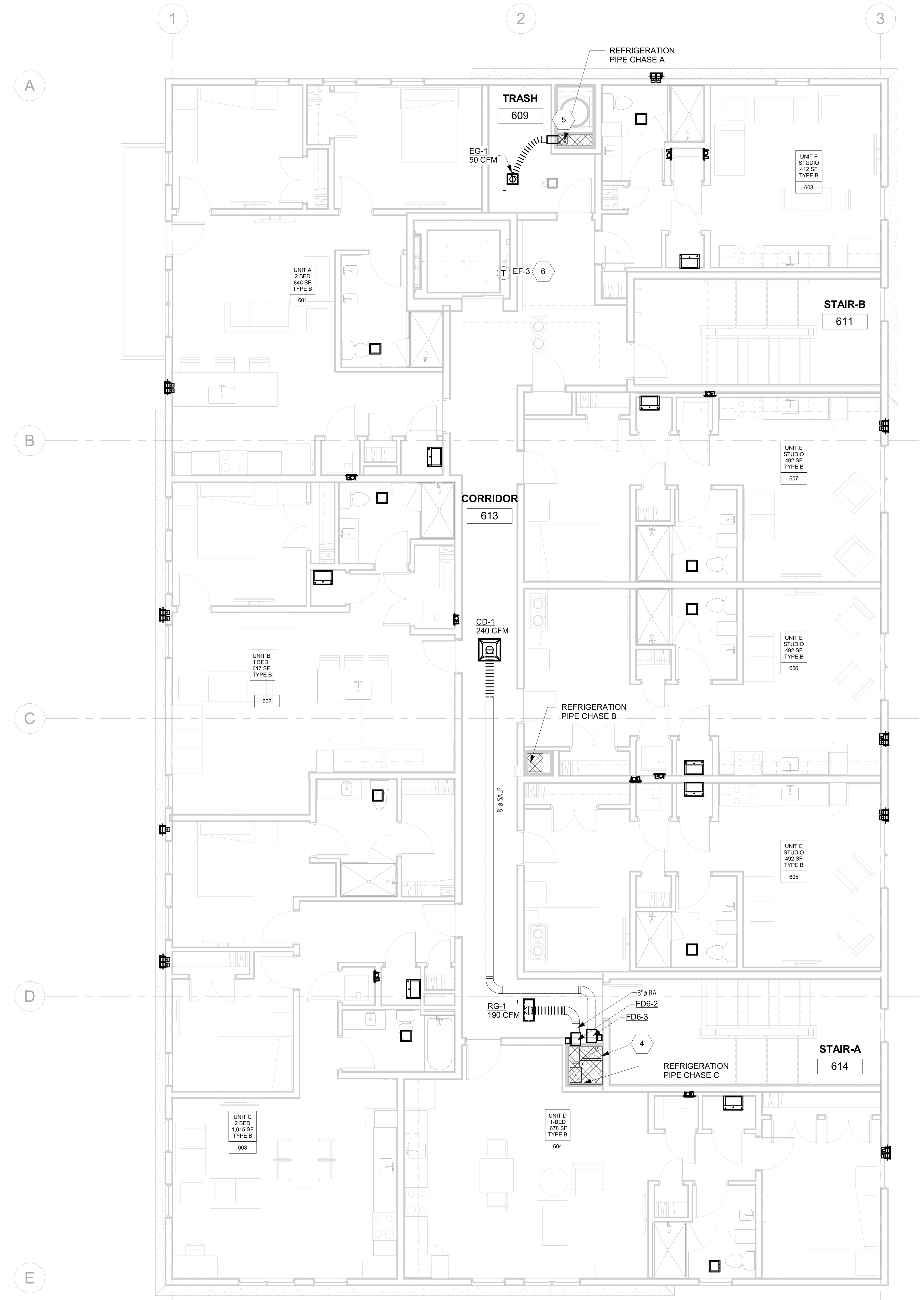
DRAWING NO.
M-112



MECHANICAL PLAN 5TH FLOOR OVERALL

3/16" = 1'-0"

NORTH



MECHANICAL PLAN 6TH FLOOR OVERALL

3/16" = 1'-0"

NORTH

SHEET NOTES

CODED NOTE NUMBER	DESCRIPTION
1	EXHAUST DUCT UP TO ROOF AND DOWN TO 4TH FLOOR.
2	SUPPLY/RETURN AIR DUCT UP TO ROOF AND DOWN TO 4TH FLOOR.
3	BATHROOM AND DRYER DUCT EXHAUST TO BE INSTALLED BETWEEN THE RATED CEILING LID ABOVE AND LOWER CEILING. FIELD COORDINATE THE LOCATION OF THE LOWER CEILINGS WITH THE GENERAL CONTRACTOR AND ARCHITECT PRIOR TO INSTALLATION.
4	SUPPLY/RETURN AIR DUCT TO ROOFTOP UNIT ON ROOF. REFER TO SHEET M-114 FOR LOCATION AND DOWN TO 5TH FLOOR.
5	EXHAUST DUCT UP TO EXHAUST FAN. REFER TO SHEET M-114 FOR LOCATION.
6	PROVIDE AND INSTALL A NEW HEAT EXTRACTION FAN ON THE TOP OF THE ELEVATOR SHAFT. MOUNT REVERSE ACTING THERMOSTAT IN THE ELEVATOR SHAFT.

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Columbia St., Indiana

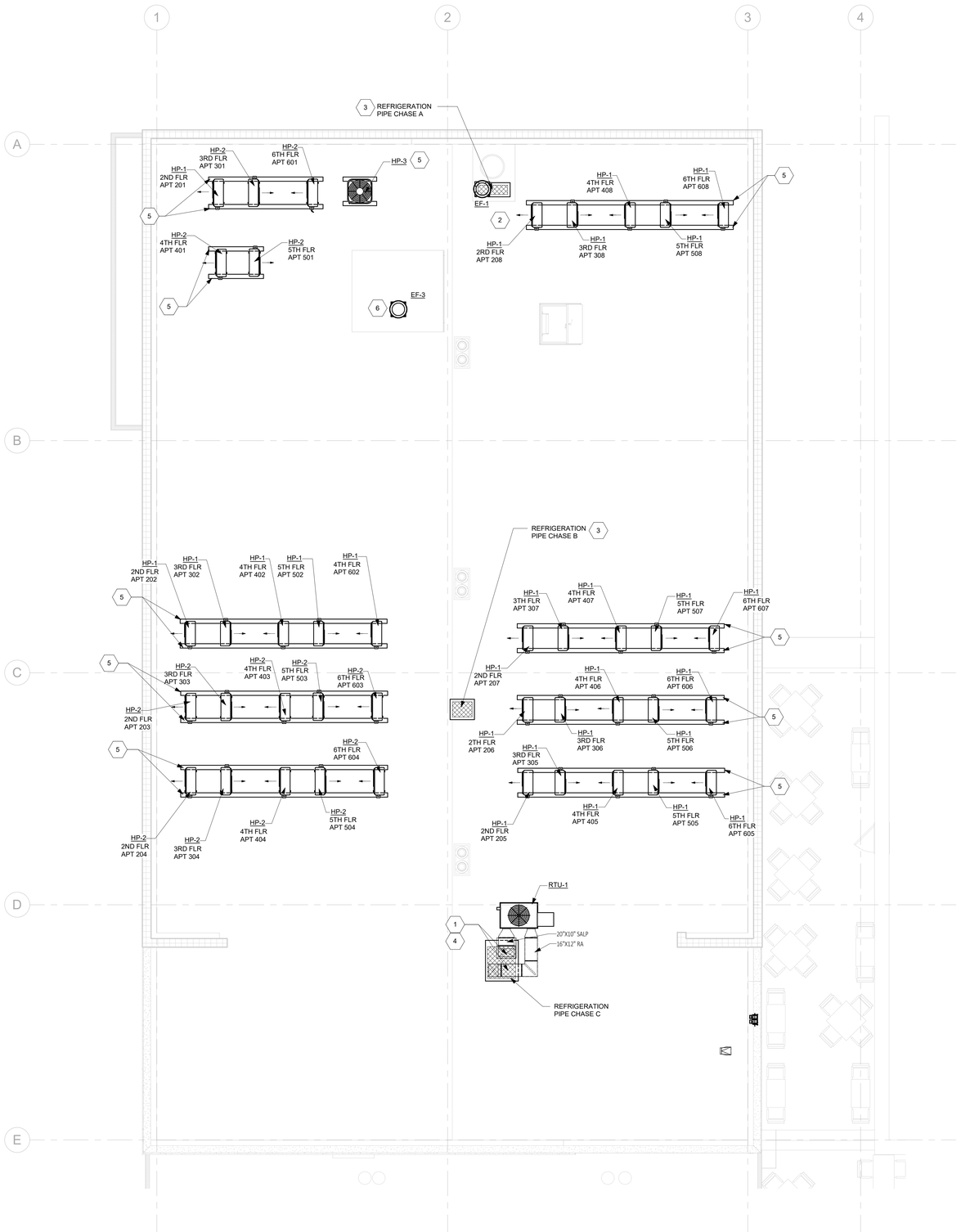
REVISION

No.	Date	Revision

DRAWING CONTENTS:
MECHANICAL PLAN 5TH & 6TH FLOOR OVERALL PLAN

ISSUE DATE:	PROJECT NO.
Issue Date	10665

DRAWING NO.
M-113



MECHANICAL PLAN ROOF

3/16" = 1'-0"

NORTH

SHEET NOTES

CODED NOTE NUMBER	DESCRIPTION
1	SUPPLY/RETURN AIR DUCT DOWN.
2	MECHANICAL CONTRACTOR TO COORDINATE ROOF OPENING SIZE WITH GENERAL CONTRACTOR. GENERAL CONTRACTOR TO FLASH ROOF CURB AS REQUIRED TO PREVENT WATER FROM ENTERING THE BUILDING.
3	PROVIDE AND INSTALL A NEW INSULATED PIPE BOX FOR NEW REFRIGERATION PIPING. FIELD COORDINATE LOCATION OF PIPE BOX. MECHANICAL CONTRACTOR TO COORDINATE ROOF OPENING SIZE WITH GENERAL CONTRACTOR. GENERAL CONTRACTOR TO FLASH ROOF CURB AS REQUIRED TO PREVENT WATER FROM ENTERING THE BUILDING.
4	PROVIDE AND INSTALL AN INSULATED CURB FOR NEW DUCT DROPS AND REFRIGERATION PIPING. MECHANICAL CONTRACTOR TO COORDINATE ROOF OPENING SIZE WITH GENERAL CONTRACTOR. GENERAL CONTRACTOR TO FLASH ROOF CURB AS REQUIRED TO PREVENT WATER FROM ENTERING THE BUILDING.
5	INSTALL NEW HEAT PUMPS ON ROOF RAILS. REFER TO ARCHITECTURAL PLANS FOR RAIL DETAILS.
6	PROVIDE AND INSTALL A NEW HEAT EXTRACTION FAN ON THE TOP OF THE ELEVATOR SHAFT. MOUNT REVERSE ACTING THERMOSTAT IN THE ELEVATOR SHAFT.

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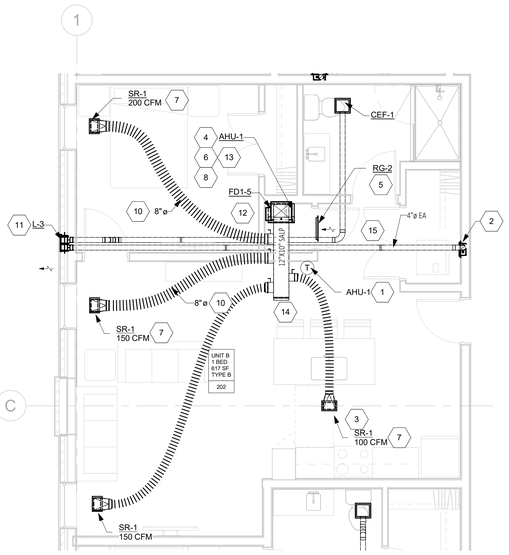
REVISION		
No.	Date	Revision

DRAWING CONTENTS:
MECHANICAL PLAN ROOF
OVERALL PLAN

ISSUE DATE: Issue Date
PROJECT NO.: 10665

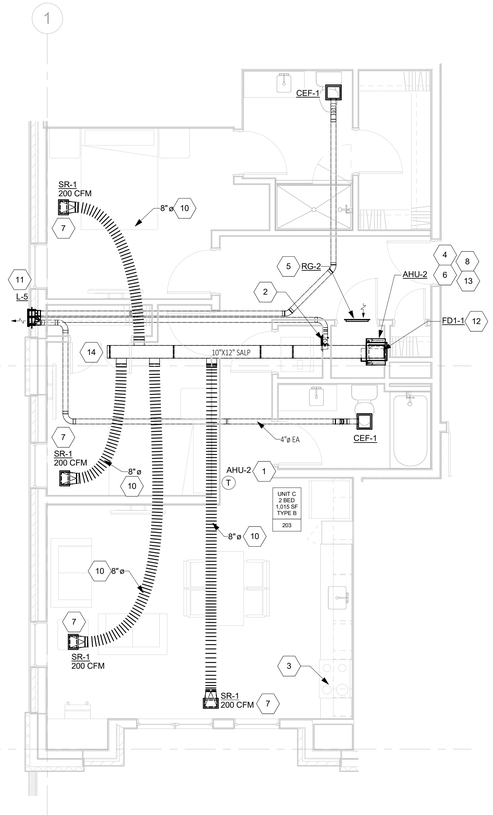
DRAWING NO.:
M-114



1 NORTH

MECHANICAL PLAN UNIT B 1BED

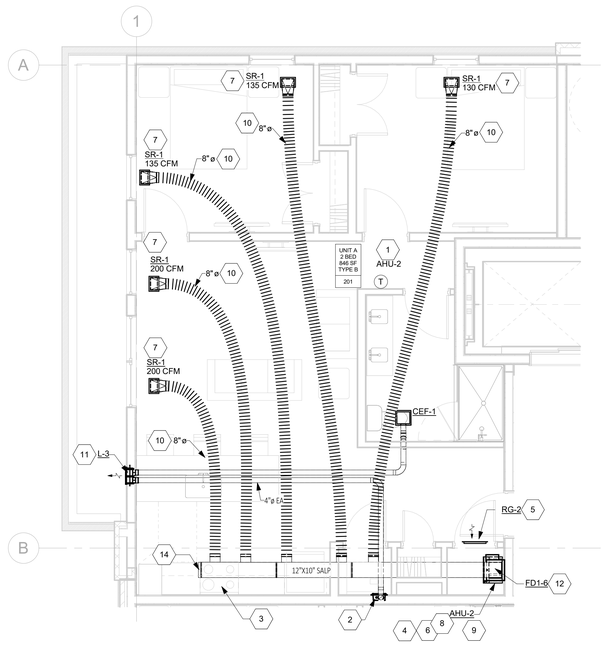
1/4" = 1'-0"



3 NORTH

MECHANICAL PLAN UNIT C 2BED

1/4" = 1'-0"



2 NORTH

MECHANICAL PLAN UNIT A 2BED

1/4" = 1'-0"

SHEET NOTES

CODED NOTE NUMBER	DESCRIPTION
1	PROVIDE AND INSTALL A PROGRAMMABLE THERMOSTAT. INTERLOCK WITH UNIT AS SHOWN. VERIFY FINAL LOCATION AND HEIGHT WITH OWNER/ARCHITECT PRIOR TO FINAL INSTALLATION.
2	PROVIDE AND INSTALL A WALL MOUNTED DRYER BOX. MOUNT DRYER BOX 12" ABOVE FINISHED FLOOR. MECHANICAL CONTRACTOR TO COORDINATE OPENING SIZE WITH THE GENERAL CONTRACTOR.
3	OWNER PROVIDING MICROWAVE WITH RECIRCULATION HOOD FANS.
4	PROVIDE AND INSTALL NEW AIR HANDLER UNIT. MOUNT AIR HANDLER UNIT ABOVE WATER HEATER. MECHANICAL CONTRACTOR TO COORDINATE HEIGHT WITH PLUMBING CONTRACTOR.
5	INSTALL RETURN GRILLE ABOVE MECHANICAL ROOM DOOR. MECHANICAL CONTRACTOR TO COORDINATE WALL OPENING WITH GENERAL CONTRACTOR.
6	FIELD COORDINATE CONDENSATE PIPING TO NEAREST FLOOR DRAIN OR MOP SINK.
7	PROVIDE AND INSTALL A CEILING RADIATION DAMPER. REFER TO AIR DEVICE SCHEDULE FOR MODEL INFORMATION.
8	PROVIDE AND INSTALL A CONDENSATE OVERFLOW SENSOR AND INTERLOCK WITH AIR HANDLER UNIT. IF CONDENSATE OVERFLOW SENSOR IS TRIPPED, SENSOR SENDS A SIGNAL TO SHUT DOWN THE AIR HANDLER UNIT.
9	FIELD COORDINATE REFRIGERATION PIPING TO PIPE CHASE "A" AND ROUTE TO ROOF. VERIFY SIZE WITH MANUFACTURER PRIOR TO FINAL INSTALLATION. REFER TO SHEET M-111 2ND FLOOR OVERALL PLAN FOR LOCATION OF REFRIGERATED PIPE CHASE "A."
10	FIELD COORDINATE FLEX DUCT THRU WOOD JOIST WEBBING.
11	MECHANICAL CONTRACTOR TO COORDINATE WALL OPENING SIZE WITH GENERAL CONTRACTOR. SEAL WALL OPENING AS REQUIRED TO PREVENT WATER FROM ENTERING IN THE BUILDING. SEE ARCHITECTURAL DRAWINGS FOR FINAL LOCATIONS.
12	INSTALL A 1-1/2 HOUR RATED FIRE DAMPER IN MAIN SUPPLY DUCT AT RATED CEILING. FIELD COORDINATE FINAL LOCATION WITH GENERAL CONTRACTOR/ARCHITECT.
13	FIELD COORDINATE REFRIGERATION PIPING TO PIPE CHASE "C" AND ROUTE TO ROOF. VERIFY SIZE WITH MANUFACTURER PRIOR TO FINAL INSTALLATION. REFER TO SHEET M-111 2ND FLOOR OVERALL PLAN FOR LOCATION OF REFRIGERATED PIPE CHASE "C."
14	FIELD COORDINATE SUPPLY DUCT BETWEEN WOOD JOISTS.
15	INSTALL DRYER EXHAUST DUCT PER SECTION 504.6 OF THE 2012 IMC.

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NEW CONSTRUCTION
Columbia St., Indiana

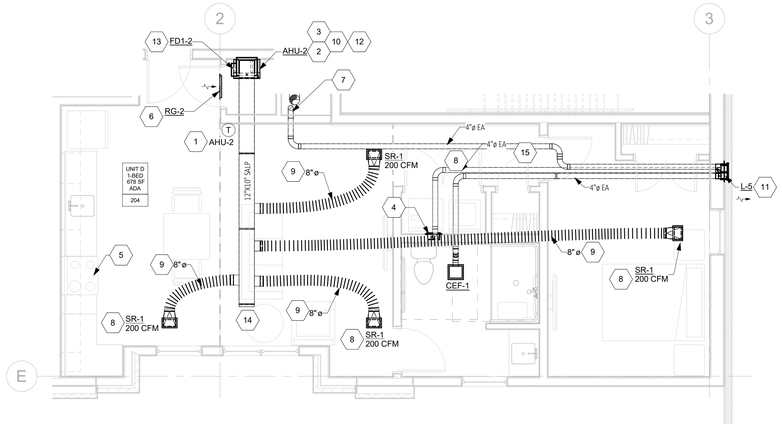
REVISION		
No.	Date	Revision

DRAWING CONTENTS:
MECHANICAL PLANS
ENLARGED PLANS UNIT A
UNIT B UNIT C

ISSUE DATE:	PROJECT NO.
Issue Date	10665

DRAWING NO.

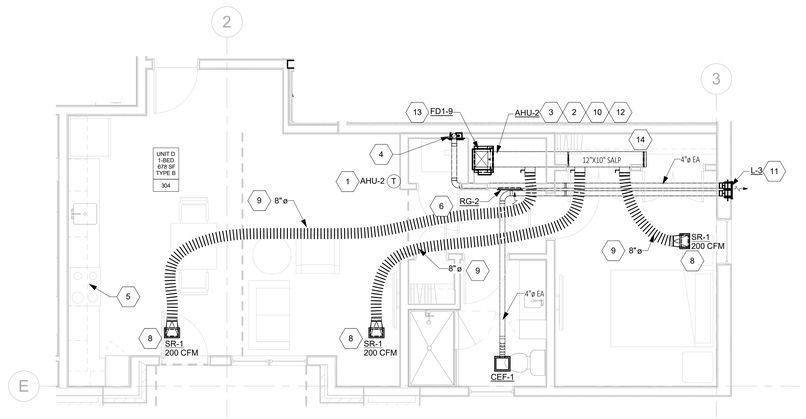
M-401



NORTH

1 MECHANICAL PLAN UNIT D ADA 1BED

1/4" = 1'-0"



NORTH

2 MECHANICAL PLAN UNIT D 1BED

1/4" = 1'-0"

SHEET NOTES

CODED NOTE NUMBER	DESCRIPTION
1	PROVIDE AND INSTALL A PROGRAMMABLE THERMOSTAT. INTERLOCK WITH UNIT AS SHOWN. VERIFY FINAL LOCATION AND HEIGHT WITH OWNER/ARCHITECT PRIOR TO FINAL INSTALLATION.
2	FIELD COORDINATE CONDENSATE PIPING TO NEAREST FLOOR DRAIN OR MOP SINK.
3	PROVIDE AND INSTALL NEW AIR HANDLER UNIT. MOUNT AIR HANDLER UNIT ABOVE WATER HEATER. MECHANICAL CONTRACTOR TO COORDINATE HEIGHT WITH PLUMBING CONTRACTOR.
4	PROVIDE AND INSTALL A WALL MOUNTED DRYER BOX. MOUNT DRYER BOX 12" ABOVE FINISHED FLOOR. MECHANICAL CONTRACTOR TO COORDINATE OPENING SIZE WITH THE GENERAL CONTRACTOR.
5	OWNER PROVIDING MICROWAVE WITH RECIRCULATION HOOD FANS.
6	INSTALL RETURN GRILLE ABOVE MECHANICAL ROOM DOOR. MECHANICAL CONTRACTOR TO COORDINATE WALL OPENING WITH GENERAL CONTRACTOR.
7	LOCATION OF PIPE CHASE FOR REFRIGERATION PIPING. PROVIDE A 4"Ø EXHAUST AIR DUCT WITHIN 6" ABOVE THE BOTTOM OF THE CHASE TO VENTILATE THE CHASE IN CASE OF POTENTIAL REFRIGERATION LEAK.
8	PROVIDE AND INSTALL A CEILING RADIATION DAMPER. REFER TO AIR DEVICE SCHEDULE FOR MODEL INFORMATION.
9	FIELD COORDINATE FLEX DUCT THRU WOOD JOIST WEBBING.
10	PROVIDE AND INSTALL A CONDENSATE OVERFLOW SENSOR AND INTERLOCK WITH AIR HANDLER UNIT. IF CONDENSATE OVERFLOW SENSOR IS TRIPPED, SENSOR SENDS A SIGNAL TO SHUT DOWN THE AIR HANDLER UNIT.
11	MECHANICAL CONTRACTOR TO COORDINATE WALL OPENING SIZE WITH GENERAL CONTRACTOR. SEAL WALL OPENING AS REQUIRED TO PREVENT WATER FROM ENTERING IN THE BUILDING. SEE ARCHITECTURAL DRAWINGS FOR FINAL LOCATIONS.
12	FIELD COORDINATE REFRIGERATION PIPING TO PIPE CHASE "C" AND ROUTE TO ROOF. VERIFY SIZE WITH MANUFACTURER PRIOR TO FINAL INSTALLATION. REFER TO SHEET M-111 2ND FLOOR OVERALL PLAN FOR LOCATION OF REFRIGERATED PIPE CHASE "C."
13	INSTALL A 1-1/2 HOUR RATED FIRE DAMPER IN MAIN SUPPLY DUCT AT RATED CEILING. FIELD COORDINATE FINAL LOCATION WITH GENERAL CONTRACTOR/ARCHITECT.
14	FIELD COORDINATE SUPPLY DUCT BETWEEN WOOD JOISTS.
15	INSTALL DRYER EXHAUST DUCT PER SECTION 504.6 OF THE 2012 IMC.

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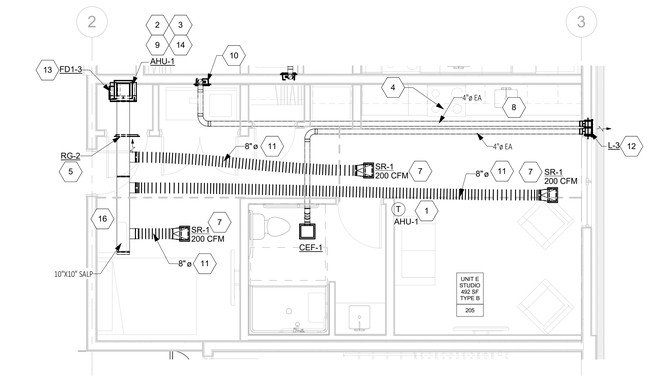
NEW CONSTRUCTION
Columbia St., Indiana

REVISION		
No.	Date	Revision

DRAWING CONTENTS:
MECHANICAL PLANS
ENLARGED PLANS UNIT D

ISSUE DATE: Issue Date
PROJECT NO. 10665

DRAWING NO.
M-402

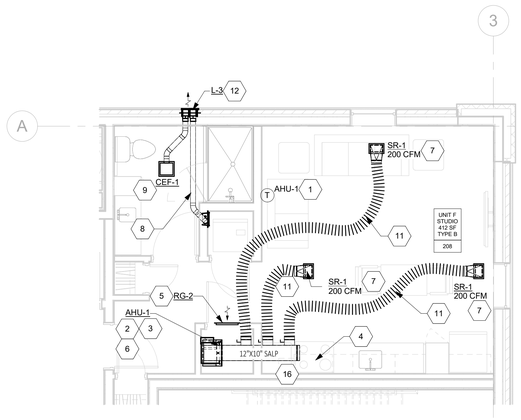


NORTH

1

MECHANICAL PLAN UNIT E ADA - 205

1/4" = 1'-0"

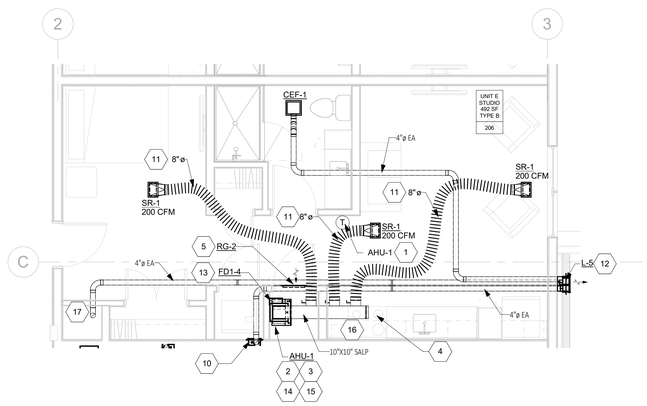


NORTH

2

MECHANICAL PLAN UNIT F STUDIO - 208/308/408/508/608

1/4" = 1'-0"



NORTH

3

MECHANICAL PLAN UNIT E STUDIO - 206/207/305/306/307/405/406/407/505/506/507/605/606/607

1/4" = 1'-0"

SHEET NOTES

CODED NOTE NUMBER	DESCRIPTION
1	PROVIDE AND INSTALL A PROGRAMMABLE THERMOSTAT. INTERLOCK WITH UNIT AS SHOWN. VERIFY FINAL LOCATION AND HEIGHT WITH OWNER/ARCHITECT PRIOR TO FINAL INSTALLATION.
2	FIELD COORDINATE CONDENSATE PIPING TO NEAREST FLOOR DRAIN OR MOP SINK.
3	PROVIDE AND INSTALL NEW AIR HANDLER UNIT. MOUNT AIR HANDLER UNIT ABOVE WATER HEATER. MECHANICAL CONTRACTOR TO COORDINATE HEIGHT WITH PLUMBING CONTRACTOR.
4	OWNER PROVIDING MICROWAVE WITH RECIRCULATION HOOD FANS.
5	INSTALL RETURN GRILLE ABOVE MECHANICAL ROOM DOOR. MECHANICAL CONTRACTOR TO COORDINATE WALL OPENING WITH GENERAL CONTRACTOR.
6	FIELD COORDINATE REFRIGERATION PIPING TO PIPE CHASE "A" AND ROUTE TO ROOF. VERIFY SIZE WITH MANUFACTURER PRIOR TO FINAL INSTALLATION. REFER TO SHEET M-111 2ND FLOOR OVERALL PLAN FOR LOCATION OF REFRIGERATED PIPE CHASE "A."
7	PROVIDE AND INSTALL A CEILING RADIATION DAMPER. REFER TO AIR DEVICE SCHEDULE FOR MODEL INFORMATION.
8	INSTALL DRYER EXHAUST DUCT PER SECTION 504.6 OF THE 2012 IMC.
9	PROVIDE AND INSTALL A CONDENSATE OVERFLOW SENSOR AND INTERLOCK WITH AIR HANDLER UNIT. IF CONDENSATE OVERFLOW SENSOR IS TRIPPED, SENSOR SENDS A SIGNAL TO SHUT DOWN THE AIR HANDLER UNIT.
10	PROVIDE AND INSTALL A WALL MOUNTED DRYER BOX. MOUNT DRYER BOX 12" ABOVE FINISHED FLOOR. MECHANICAL CONTRACTOR TO COORDINATE OPENING SIZE WITH THE GENERAL CONTRACTOR.
11	FIELD COORDINATE FLEX DUCT THRU WOOD JOIST WEBBING.
12	MECHANICAL CONTRACTOR TO COORDINATE WALL OPENING SIZE WITH GENERAL CONTRACTOR. SEAL WALL OPENING AS REQUIRED TO PREVENT WATER FROM ENTERING IN THE BUILDING. SEE ARCHITECTURAL DRAWINGS FOR FINAL LOCATIONS.
13	INSTALL A 1-1/2 HOUR RATED FIRE DAMPER IN MAIN SUPPLY DUCT AT RATED CEILING. FIELD COORDINATE FINAL LOCATION WITH GENERAL CONTRACTOR/ARCHITECT.
14	FIELD COORDINATE REFRIGERATION PIPING TO PIPE CHASE "B" AND ROUTE TO ROOF. VERIFY SIZE WITH MANUFACTURER PRIOR TO FINAL INSTALLATION. REFER TO SHEET M-111 2ND FLOOR OVERALL PLAN FOR LOCATION OF REFRIGERATED PIPE CHASE "B."
15	FIELD COORDINATE REFRIGERATED LINE SET. VERIFY SIZE WITH MANUFACTURER PRIOR TO FINAL INSTALLATION.
16	FIELD COORDINATE SUPPLY DUCT BETWEEN WOOD JOISTS.
17	LOCATION OF PIPE CHASE FOR REFRIGERATION PIPING. PROVIDE A 4"Ø EXHAUST AIR DUCT WITHIN 6" ABOVE THE BOTTOM OF THE CHASE TO VENTILATE THE CHASE IN CASE OF POTENTIAL REFRIGERATION LEAK.

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CONSULATANT LOGO:
BID SET
09.13.2024

THE LANDING 3.0

NEW CONSTRUCTION
Columbia St., Indiana

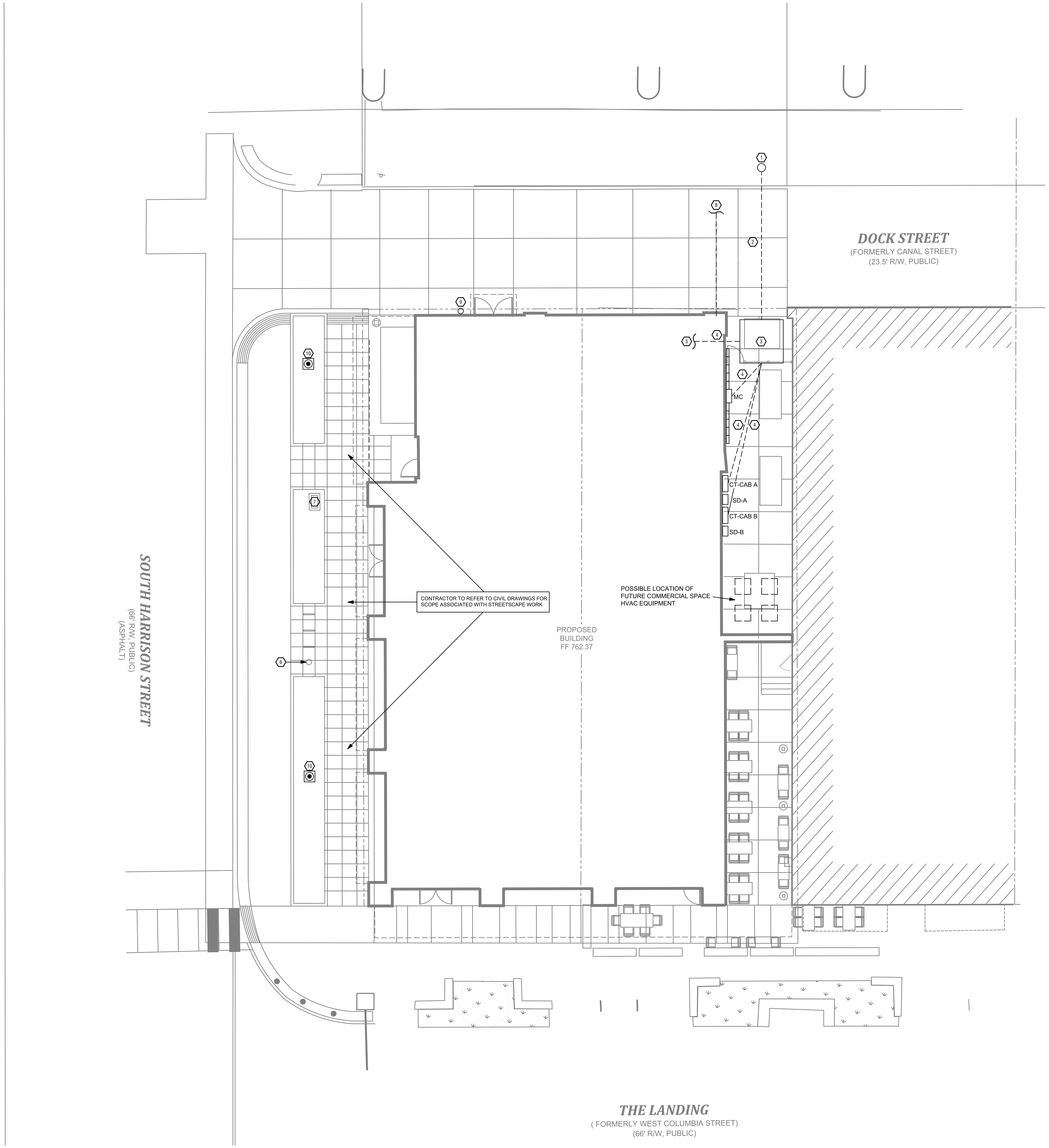
REVISION		
No.	Date	Revision

DRAWING CONTENTS:
MECHANICAL PLANS
ENLARGED PLANS UNIT E
UNIT F

ISSUE DATE:	PROJECT NO.
Issue Date	10665

DRAWING NO.

M-403



1 E-001 ELECTRICAL SITE PLAN
SCALE: 1/8" = 1'-0"

SCOPE OF WORK

NEW CONSTRUCTION OF A SIX FLOOR MULTI USE BUILDING. FIRST FLOOR INCLUDES SHELL FOR FUTURE COMMERCIAL TENANT SPACES. FLOORS TWO THROUGH SIX ARE FOR RESIDENTIAL TENANTS. SCOPE OF WORK INCLUDES NEW DEVICES, LIGHTING, AND BRANCH CIRCUIT WIRING. SEE SINGLE LINE DIAGRAM, PANEL SCHEDULES, AND DETAILS SHEETS FOR MORE INFORMATION.

GENERAL NOTES - OVERALL PROJECT

A. EBS DRAWINGS INDICATE DESIGN INTENT AND REQUIRED OUTCOMES. IF CONDITIONS ARISE IN THE FIELD THAT REQUIRE DEVIATIONS FROM THE DRAWINGS IT IS ASSUMED THAT THE CONTRACTOR WILL DETERMINE THE APPROPRIATE DEVIATION WITH APPROVAL FROM THE OWNER. EBS IS AVAILABLE TO ASSIST WHEN REQUIRED IF ISSUES ARISE.

GENERAL NOTES - POWER

A. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL CONDUIT/CABLE ROUTING. COORDINATE ROUTING WITH ALL OTHER TRADES AND BUILDING CONDITIONS.
B. SEE SINGLE LINE DIAGRAM FOR FEEDER WIRE AND CONDUIT SIZE. ALL CIRCUITS NOT SIZED ON DRAWING SHALL BE INSTALLED TO MEET MINIMUM SIZE REQUIRED BY NEC.
C. PROVIDE MOTOR STARTERS FOR EQUIPMENT AS INDICATED ON DRAWINGS. COORDINATE ANY INTERLOCKING WIRING WITH HVAC CONTRACTOR AND PROVIDE WIRING, COILS, AND AUXILIARY CONTACTS AS NECESSARY. SIZE ALL CIRCUITS FOR ACTUAL EQUIPMENT TO BE CONNECTED.
D. ALL PANELS AND DISCONNECTS LOCATED OUTDOORS SHALL BE LABELED NEMA 3R.
E. ROOF MOUNTED AND OUTDOOR EQUIPMENT SHALL HAVE 120V RECEPTACLE MOUNTED WITHIN 25' OF EACH PIECE. RECEPTACLES SHALL BE IN WEATHER PROOF BOX AND HAVE GFCI PROTECTION.
F. FOR ITEMS FURNISHED BY OTHER TRADES, ELECTRICAL CONTRACTOR TO FULLY COORDINATE BREAKER AND WIRE SIZES WITH ACTUAL EQUIPMENT BEING CONNECTED PRIOR TO ROUGH-IN, OR INSTALLATION. THE SIZES ON PANEL SCHEDULES REFER TO BASIS OF DESIGN SELECTIONS, AND ACTUAL ITEMS MAY DEVIATE FROM BASIS OF DESIGN. IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO CONFIRM REQUIRED WIRE AND BREAKER SIZES WITH THE CONTRACTOR FURNISHING THE EQUIPMENT.
G. REFER TO ARCHITECT'S PLANS AND ELEVATIONS FOR ALL DEVICE MOUNTING HEIGHTS.
H. CONTRACTOR TO PROVIDE GROUNDING AND BONDING AS REQUIRED FOR ELECTRICAL SYSTEMS. GROUNDING AND BONDING IS CONSIDERED MEANS AND METHODS OF CONSTRUCTION, AND SHOULD BE COMPLETED BY THE ELECTRICAL CONTRACTOR IN ACCORDANCE WITH NEC 250. GAS PIPING SYSTEMS MUST BE BONDED PER UTILITY PROVIDER'S INSTALLATION GUIDELINES WHERE REQUIRED.
I. GFCI DEVICES MUST BE INSTALLED IN ACCESSIBLE LOCATIONS AND NOT PLACED BEHIND EQUIPMENT.

KEYED SHEET NOTES - SITE

1. APPROXIMATE LOCATION OF UTILITY POLE.
2. CONTRACTOR TO PROVIDE (2) 4" UNDERGROUND EMPTY CONDUITS WITH PULL STRING FROM UTILITY TRANSFORMER UP POLE FOR UTILITY PRIMARY WIRING.
3. APPROXIMATE LOCATION OF UTILITY TRANSFORMER/PAD.
4. UNDERGROUND SECONDARY WIRING.
5. SEE SHEET E100 FOR INTERIOR SERVICE DISCONNECT LOCATIONS.
6. COORDINATE WITH CITY OF FORT WAYNE TO EXTEND EXISTING ELECTRICAL CIRCUIT TO NEW BIKE REPAIR STATION LOCATION.
7. RELOCATE EXISTING TRAFFIC CONTROL BOX ONTO NEW FOUNDATION. COORDINATE LOCATION WITH CITY OF FORT WAYNE PRIOR TO COMPLETING WORK.
8. PROVIDE 2 CONDUITS FOR CABLE SERVICE ENTRY. COORDINATE SIZE AND LOCATION WITH UTILITY PROVIDER DURING CONSTRUCTION.
9. APPROXIMATE LOCATION OF EXISTING POLE. POLE TO BE RELOCATED. COORDINATE RELOCATION AND CONTRACTOR RESPONSIBLE SCOPE OF WORK DURING CONSTRUCTION WITH LOCAL UTILITY PROVIDER.
10. REMOVE AND STORE POLE LIGHTS DURING CONSTRUCTION. RESET LIGHT POLE ON NEW FOUNDATION AND RECONNECT THEM ONCE STREETSCAPE CONSTRUCTION IS COMPLETE. COORDINATE NEW LOCATIONS WITH CITY OF FORT WAYNE ONCE CONSTRUCTION IS COMPLETE.

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Key Plan:

PR - 10665

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THE LANDING 3.0

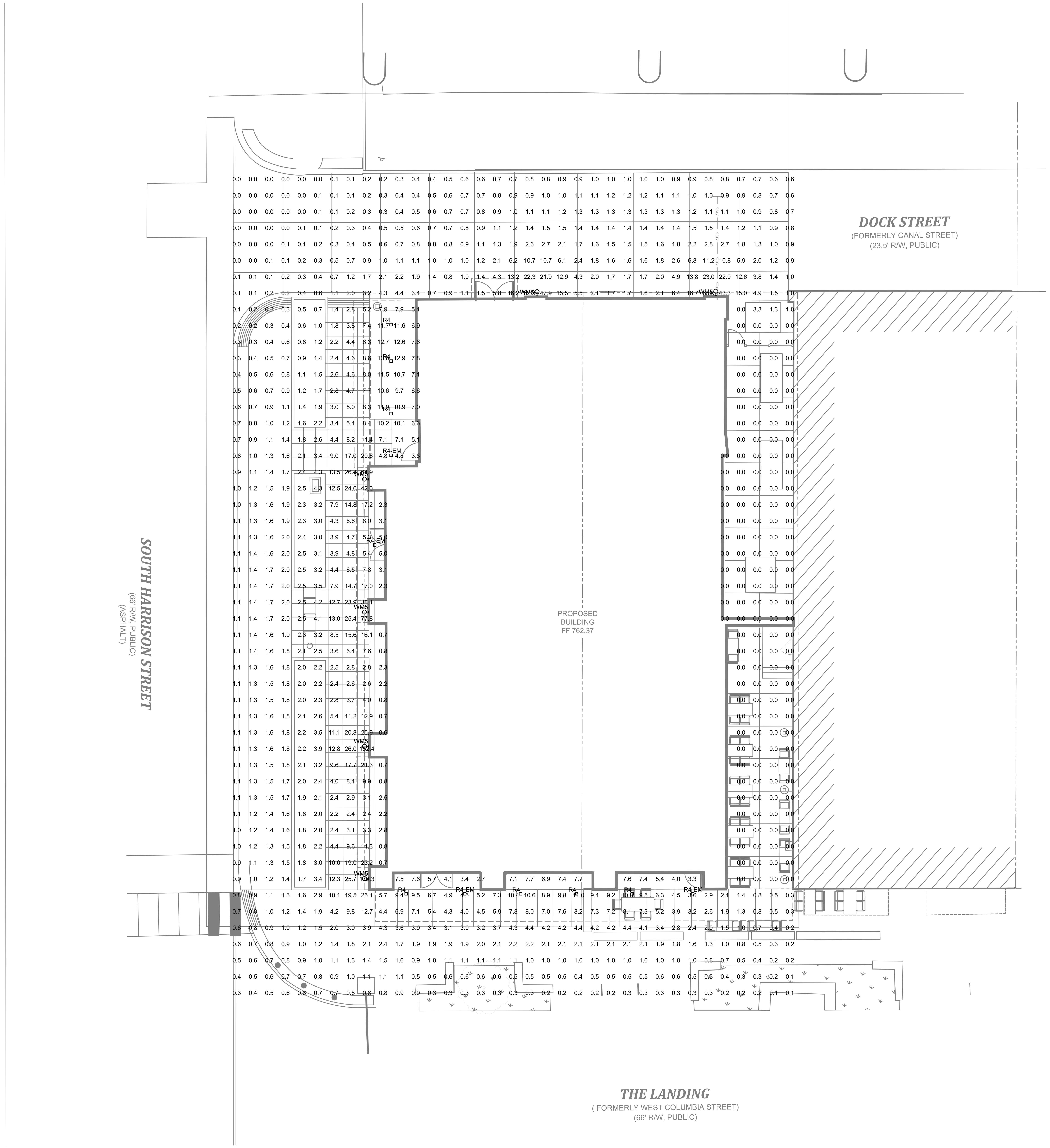
NEW CONSTRUCTION
Columbia St., Indiana

REVISION		
No.	Date	Revision

DRAWING CONTENTS:
ELECTRICAL SITE PLAN

ISSUE DATE: 09-03-24
PROJECT NO: 10665

DRAWING NO.
E-001



1 ELECTRICAL SITE PHOTOMETRIOC PLAN
E-002 SCALE: 1/8" = 1'-0"

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ELECTRICAL SITE PHOTOMETRIC PLAN

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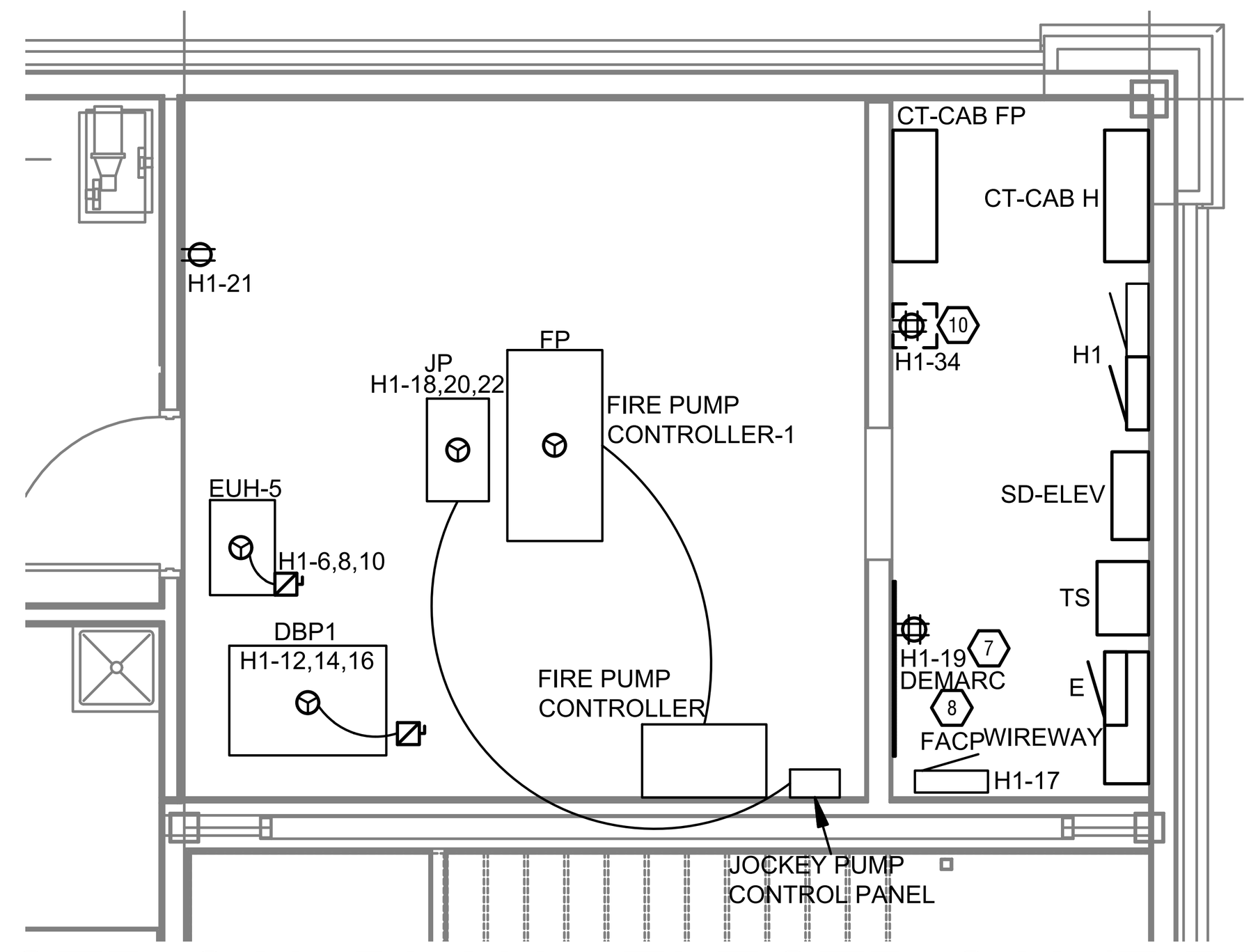
09-03-24	10665

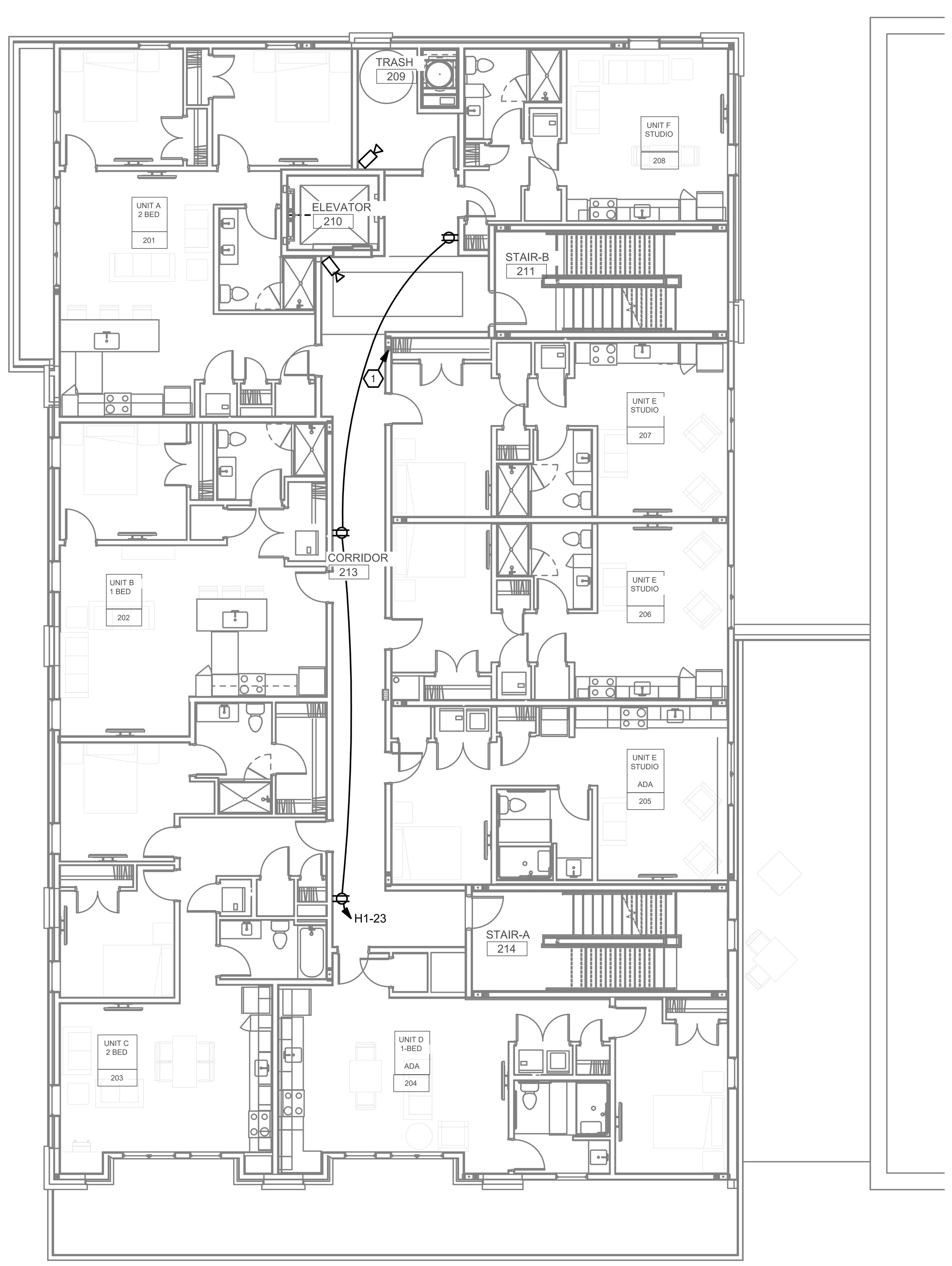
DRAWING NO.
E-002

Z:\~Project Directories\10600 – 10699\10665 – The Landing 3.0 – Fort Wayne IN\~Construction Documents\10665-E002-ELECTRICAL-SITE-PLAN-PHOTOMETRIC.dwg-EBS. Plot Date/Time: Sep 11, 2024-3:53pm – By: alec.gates

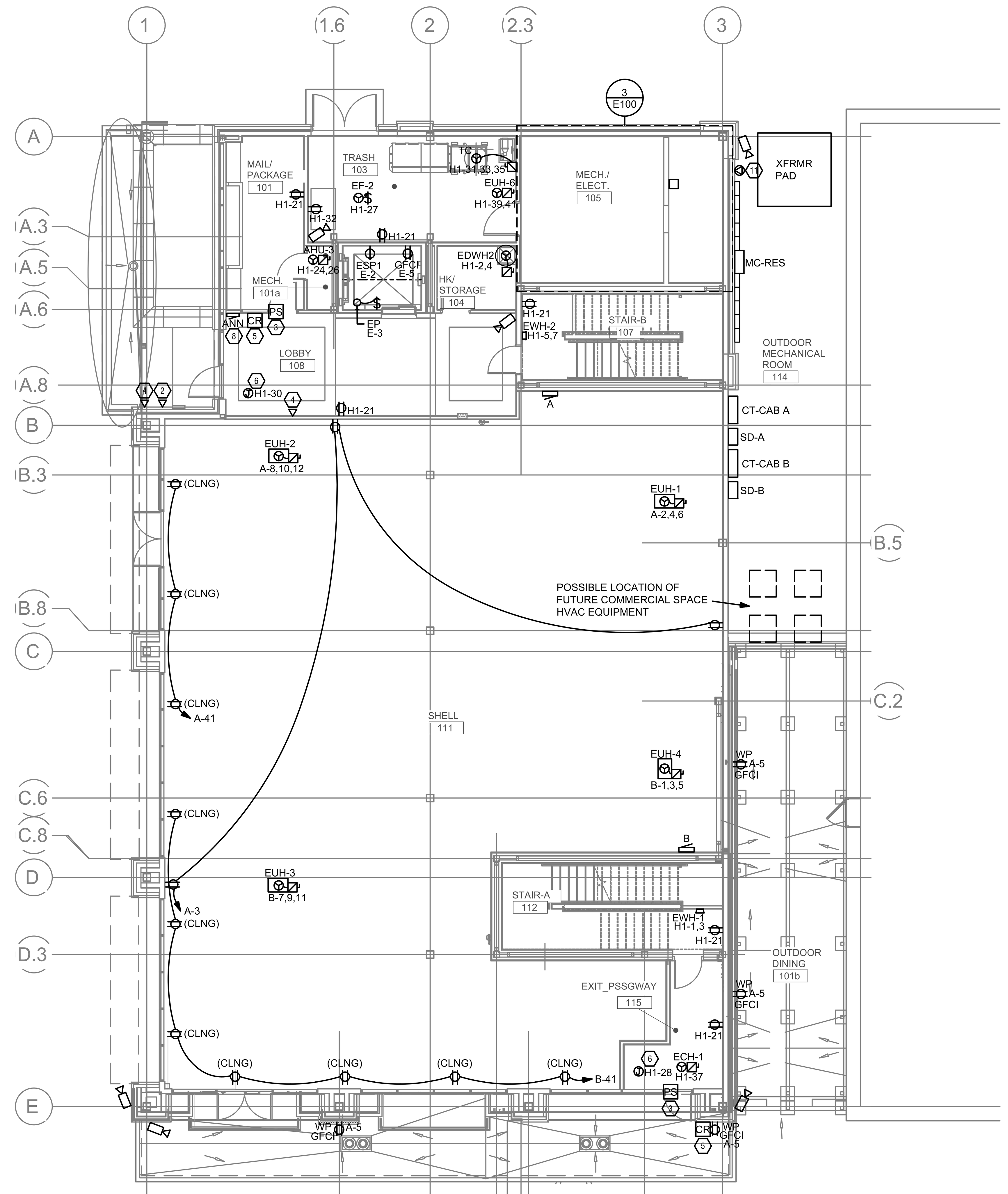
THESE DRAWINGS AND SPECIFICATIONS ARE NOT AUTHORIZED TO BE USED AS CONTRACT DOCUMENTS. THESE DRAWINGS HAVE BEEN PREPARED TO DEMONSTRATE COMPLIANCE WITH APPLICABLE CODES, AND ARE INTENDED TO PROVIDE THE AUTHORITIES HAVING JURISDICTION WITH INFORMATION TO DETERMINE CODE COMPLIANCE. THE INSTALLING CONTRACTOR IS RESPONSIBLE TO ENSURE THAT MEANS, METHODS, AND MATERIALS USED IN CONSTRUCTION ARE INSTALLED IN ACCORDANCE WITH ANY CONTRACTURAL AGREEMENT THAT MAY EXIST WITH AN OWNER, CONSTRUCTION MANAGER, GENERAL CONTRACTOR, ETC. EBS ACCEPTS NO RESPONSIBILITY OR LIABILITY FOR THE COMPLIANCE OR CONDITION OF EXISTING EQUIPMENT AND WIRING.



3 E-100 ELECTRICAL PLAN - ELECTRICAL/FIRE PUMP ROOM ENLARGED
SCALE: 1/4" = 1'-0"



2 E-100 ELECTRICAL POWER SECOND FLOOR PLAN
SCALE: 1/8" = 1'-0"



1 E-100 ELECTRICAL POWER FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"

SCOPE OF WORK

NEW CONSTRUCTION OF A SIX FLOOR MULTI USE BUILDING. FIRST FLOOR INCLUDES SHELL FOR FUTURE COMMERCIAL TENANT SPACES. FLOORS TWO THROUGH SIX ARE FOR RESIDENTIAL TENANTS. SCOPE OF WORK INCLUDES NEW DEVICES, LIGHTING, AND BRANCH CIRCUIT WIRING. SEE SINGLE LINE DIAGRAM, PANEL SCHEDULES, AND DETAILS SHEETS FOR MORE INFORMATION.

GENERAL NOTES - OVERALL PROJECT

A. EBS DRAWINGS INDICATE DESIGN INTENT AND REQUIRED OUTCOMES. IF CONDITIONS ARISE IN THE FIELD THAT REQUIRE DEVIATIONS FROM THE DRAWINGS IT IS ASSUMED THAT THE CONTRACTOR WILL DETERMINE THE APPROPRIATE DEVIATION WITH APPROVAL FROM THE OWNER. EBS IS AVAILABLE TO ASSIST WHEN REQUIRED IF ISSUES ARISE.

GENERAL NOTES - ELEVATOR(S)

A. FURNISH AND INSTALL ALL REQUIRED ELECTRICAL COMPONENTS AND CONNECTIONS FOR ELEVATOR OPERATION. REFER TO ELEVATOR SHOP DRAWINGS FOR COMPLETE INFORMATION. PROVIDE SHUNT-TRIP OPERATION FOR ELEVATOR CIRCUIT WHERE REQUIRED. INCLUDE CONNECTIONS FOR SHAFT, SUMP PUMP, PIT LIGHT, RECEPTACLE, CAB LIGHT, ETC. BASIS OF DESIGN HP AND CIRCUIT CHARACTERISTICS SHOWN ON DRAWINGS MUST BE VERIFIED WITH ELEVATOR SUPPLIER PRIOR TO ROUGH-IN OR INSTALLATION.

GENERAL NOTES - GENERATOR

A. GENERATORS, TRANSFER SWITCHES, FUEL CAPACITY/RUN-TIMES, AND START-UP/OPERATION REQUIREMENTS SHALL CONFORM TO THE REQUIREMENTS FOR THEIR USE - STAND-BY, LEGALLY REQUIRED STAND-BY, EMERGENCY, ETC.

B. CONTRACTOR SHALL COORDINATE PAD REQUIREMENTS WITH GENERATOR SUPPLIER AND LOCATE ALL CONDUIT OPENINGS PER MANUFACTURER'S INSTALLATION GUIDES.

C. PROVIDE ALL ANCILLARY WIRING FOR CONTROL, COMMUNICATION, BATTERY CHARGE, BLOCK HEATER, ETC.

D. INSTALL PAD AND GENERATOR SUCH THAT REQUIRED CLEARANCES FROM BUILDINGS, BUILDING OPENINGS, AND OTHER OBSTRUCTIONS ARE MAINTAINED.

E. COORDINATE GENERATOR CIRCUIT BREAKER/FEEDER REQUIREMENTS WITH ACTUAL EQUIPMENT BEING CONNECTED - FIRE PUMP, ETC.

F. WHERE THE GENERATOR IS REQUIRED TO OPERATE AS A SEPARATELY DERIVED SYSTEM (GENERATOR SERVING MULTIPLE BUILDINGS/STRUCTURES FOR EXAMPLE) PROVIDE PROPER GROUNDING AND USE 4-POLE TRANSFER SWITCHES AS REQUIRED BY NEC 250.

GENERAL NOTES - POWER

A. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL CONDUIT/CABLE ROUTING. COORDINATE ROUTING WITH ALL OTHER TRADES AND BUILDING CONDITIONS.

B. SEE SINGLE LINE DIAGRAM FOR FEEDER WIRE AND CONDUIT SIZE. ALL CIRCUITS NOT SIZED ON DRAWING SHALL BE INSTALLED TO MEET MINIMUM SIZE REQUIRED BY NEC.

C. PROVIDE MOTOR STARTERS FOR EQUIPMENT AS INDICATED ON DRAWINGS. COORDINATE ANY INTERLOCKING WIRING WITH HVAC CONTRACTOR AND PROVIDE WIRING, COILS, AND AUXILIARY CONTACTS AS NECESSARY. SIZE ALL CIRCUITS FOR ACTUAL EQUIPMENT TO BE CONNECTED.

D. ALL PANELS AND DISCONNECTS LOCATED OUTDOORS SHALL BE LABELED NEMA 3R.

E. ROOF MOUNTED AND OUTDOOR EQUIPMENT SHALL HAVE 120V RECEPTACLE MOUNTED WITHIN 25' OF EACH PIECE. RECEPTACLES SHALL BE IN WEATHER PROOF BOX AND HAVE GFCI PROTECTION.

F. FOR ITEMS FURNISHED BY OTHER TRADES, ELECTRICAL CONTRACTOR TO FULLY COORDINATE BREAKER AND WIRE SIZES WITH ACTUAL EQUIPMENT BEING CONNECTED PRIOR TO ROUGH-IN, OR INSTALLATION. THE SIZES ON PANEL SCHEDULES REFER TO BASIS OF DESIGN SELECTIONS, AND ACTUAL ITEMS MAY DEVIATE FROM BASIS OF DESIGN. IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO CONFIRM REQUIRED WIRE AND BREAKER SIZES WITH THE CONTRACTOR FURNISHING THE EQUIPMENT.

G. REFER TO ARCHITECT'S PLANS AND ELEVATIONS FOR ALL DEVICE MOUNTING HEIGHTS.

H. CONTRACTOR TO PROVIDE GROUNDING AND BONDING AS REQUIRED FOR ELECTRICAL SYSTEMS. GROUNDING AND BONDING IS CONSIDERED MEANS AND METHODS OF CONSTRUCTION, AND SHOULD BE COMPLETED BY THE ELECTRICAL CONTRACTOR IN ACCORDANCE WITH NEC 250. GAS PIPING SYSTEMS MUST BE BONDED PER UTILITY PROVIDER'S INSTALLATION GUIDELINES WHERE REQUIRED.

I. GFCI DEVICES MUST BE INSTALLED IN ACCESSIBLE LOCATIONS AND NOT PLACED BEHIND EQUIPMENT.

FIRE ALARM - DELEGATED DESIGN

A. COMPLY WITH PERFORMANCE REQUIREMENTS AND DESIGN CRITERIA CONTAINED ON DRAWINGS. RESPONSIBILITY FOR PROVIDING A COMPLIANT, OPERATIONAL FIRE ALARM SYSTEM LIES WITH THIS CONTRACTOR. REFER TO ARCHITECT'S CODE SHEET FOR USE GROUP AND OCCUPANT INFORMATION WHEN PROVIDING THE FIRE ALARM DESIGN. VERIFY REQUIREMENTS SPECIFIC TO PROJECT LOCALITY AND INCLUDE IN SCOPE.

B. INSTALLING CONTRACTOR SHALL FURNISH ALL REQUIRED DRAWINGS AND CALCULATIONS REQUIRED FOR FIRE ALARM PERMIT. DRAWINGS AND CALCULATIONS SHALL BE PREPARED BY AN INDIVIDUAL CARRYING ALL CERTIFICATIONS REQUIRED BY THE AGENCY RESPONSIBLE FOR REVIEW AND APPROVAL.

C. REQUIRED COMPONENTS THAT ARE NOT SHOWN ON DRAWINGS SUCH AS; RELAY MODULES MONITOR MODULES, BOOSTER PANELS, ANNUNCIATORS, ETC. ARE THE RESPONSIBILITY OF THIS CONTRACTOR AND ARE INCLUDED IN THIS SCOPE OF WORK.

(#) KEYED SHEET NOTES - OVERALL

1. VERTICAL FIRE ALARM AND DATA VERTICAL CABLING TO BE ROUTED IN NON RATED WALLS.
2. EC TO ROUGH IN POWER AND DATA FOR AI PHONE DOOR RELEASE. COORDINATE LOCATION AND REQUIREMENTS WITH GC AND SECURITY CONTRACTOR BEFORE ROUGH IN.
3. PROVIDE A PATHWAY FOR THE SECURITY CONTRACTOR FOR A DOOR POSITION SWITCH. FIELD COORDINATE LOCATION WITH SECURITY CONTRACTOR PRIOR TO ROUGH IN.
4. ROUGH IN PUSH BUTTON FOR DOOR. FIELD COORDINATE LOCATION WITH GC AND SECURITY CONTRACTOR PRIOR TO ROUGH IN.
5. ROUGH IN CARD READER FOR DOOR. FIELD COORDINATE LOCATION WITH GC AND SECURITY CONTRACTOR PRIOR TO ROUGH IN.
6. PROVIDE JUNCTION BOX AND CIRCUIT FOR CARD READER AND PUSH BUTTON SWITCHES. FIELD COORDINATE LOCATION AND REQUIREMENTS WITH SECURITY CONTRACTOR PRIOR TO ROUGH IN.
7. PROVIDE 4'X4'X3/4" PLYWOOD BACKBOARD AND QUAD RECETPACLE FOR DATA/PHONE UTILITIES. PROVIDE CONDUIT FROM THIS LOCATION TO UTILITY INFRASTRUCTURE FOR UTILITY USE. CONFIRM LOCATION, QUANTITY, AND SIZE OF CONDUITS NECESSARY WITH UTILITY PROVIDER PRIOR TO INSTALLATION. INSTALL OWNER SPECIFIED CABLE FROM THIS LOCATION TO IDF CLOSETS
   7.1. PROVIDE PLYWOOD BACKBOARD AND QUAD RECEPTACLE IN IDF CLOSETS. TELEDATA HOMERUNS IN APARTMENT UNITS ARE BROUGHT BACK TO THIS LOCATION.
8. PROVIDE DEDICATED CIRCUIT FOR FIRE ALARM PANEL AND A REMOTE ANNUNCIATOR AT THE BUILDING ENTRANCE. LOCATION TO BE APPROVED BY GC AND AHJ PRIOR TO INSTALLATION.
9. PROVIDE BRANCH CIRCUIT FOR RADON MITIGATION SYSTEM. DISCONNECT TO BE INSTALLED WITHIN TEN FEET OF FAN, CIRCUIT BREAKER MUST BE LABELED "RADON REDUCTION SYSTEM". COORDINATE LOCATION OF BRANCH CIRCUIT WITH INSTALLING CONTRACTOR.
10. PROVIDE A QUAD RECEPTACLE FOR WALL MOUNTED RACK FOR SECURITY CAMERA AND HEAD END EQUIPMENT FOR ACCESS CONTROL. FIELD COORDINATE FINAL LOCATION WITH GC PRIOR TO ROUGH IN.
11. DEVICE IS FOR CONNECTION OF A TEMPORARY MOBILE GENERATOR FOR THE ELEVATOR IN THE EVENT OF A POWER OUTAGE. SEE KEYED NOTE 1 ON SHEET E400 FOR MORE INFORMATION.

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THE LANDING 3.0

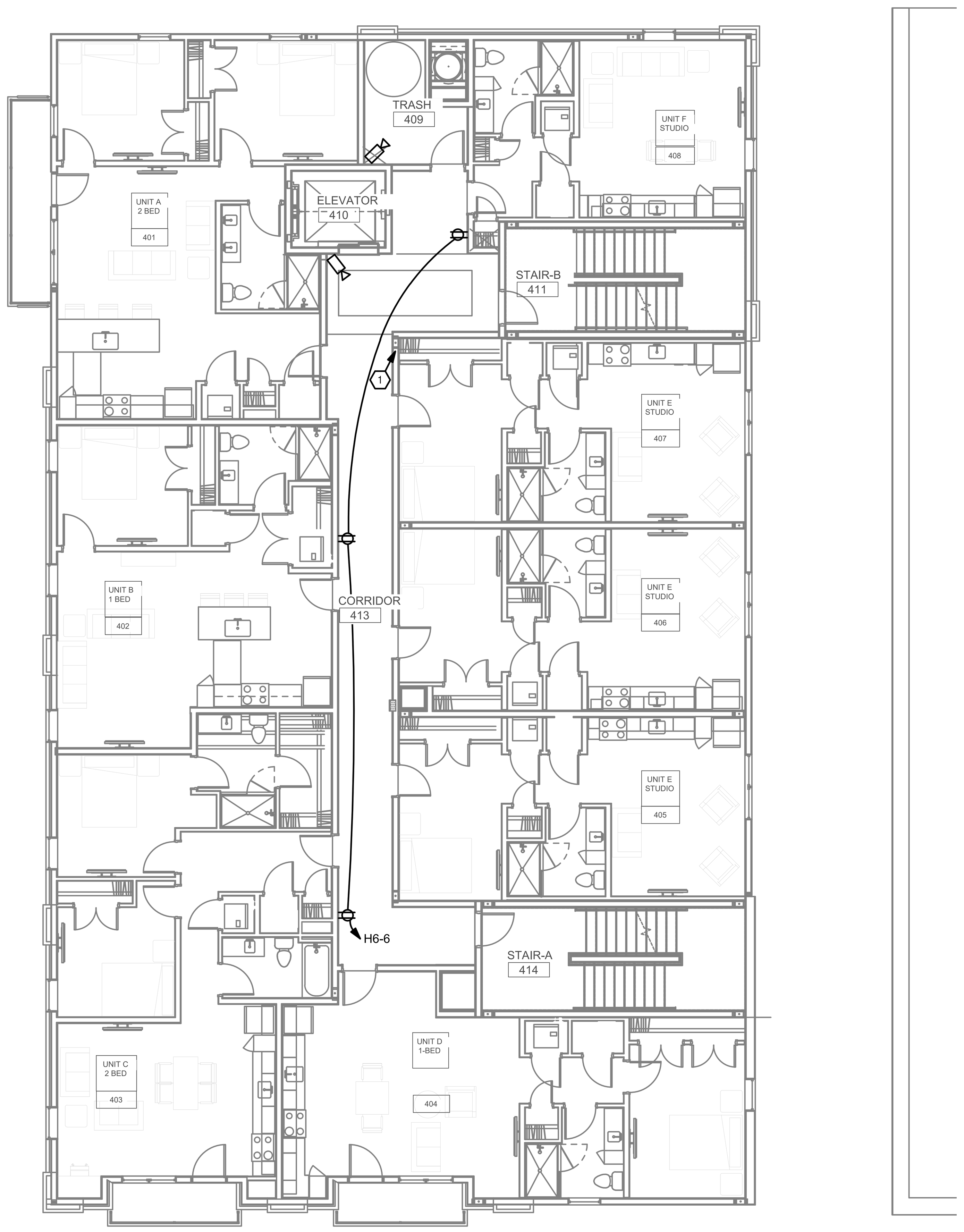
NEW CONSTRUCTION
Columbia St., Indiana

REVISION		
No.	Date	Revision

DRAWING CONTENTS:
ELECTRICAL POWER FIRST & SECOND FLOOR PLAN

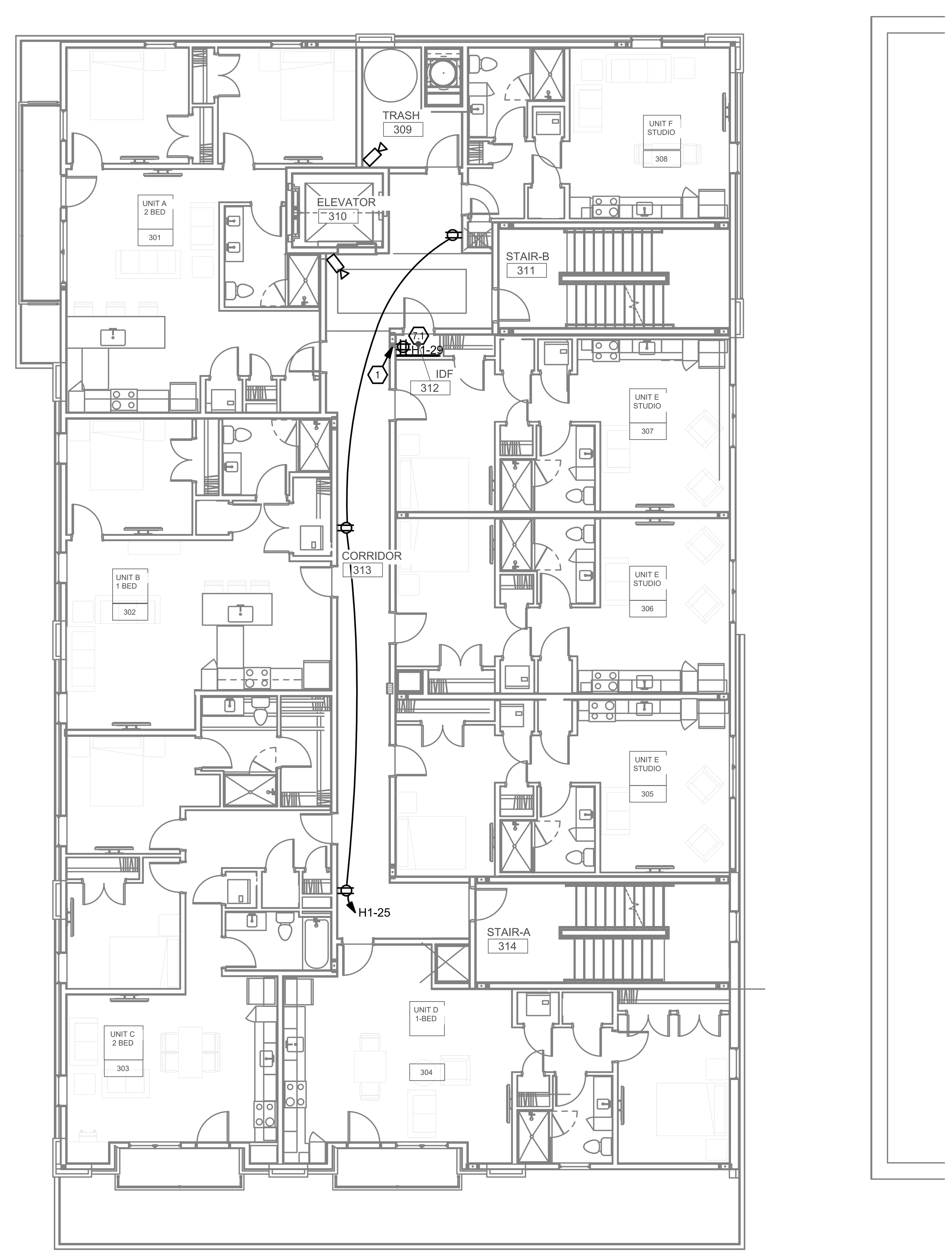
ISSUE DATE: 09-03-24
PROJECT NO. 10665

DRAWING NO.
E-100



ELECTRICAL POWER FOURTH FLOOR PLAN

2 E-101 SCALE: 1/8" = 1'-0"



ELECTRICAL POWER THIRD FLOOR PLAN

1 E-101 SCALE: 1/8" = 1'-0"

SCOPE OF WORK

NEW CONSTRUCTION OF A SIX FLOOR MULTI USE BUILDING. FIRST FLOOR INCLUDES SHELL FOR FUTURE COMMERCIAL TENANT SPACES. FLOORS TWO THROUGH SIX ARE FOR RESIDENTIAL TENANTS. SCOPE OF WORK INCLUDES NEW DEVICES, LIGHTING, AND BRANCH CIRCUIT WIRING. SEE SINGLE LINE DIAGRAM, PANEL SCHEDULES, AND DETAILS SHEETS FOR MORE INFORMATION.

GENERAL NOTES - OVERALL PROJECT

A. EBS DRAWINGS INDICATE DESIGN INTENT AND REQUIRED OUTCOMES. IF CONDITIONS ARISE IN THE FIELD THAT REQUIRE DEVIATIONS FROM THE DRAWINGS IT IS ASSUMED THAT THE CONTRACTOR WILL DETERMINE THE APPROPRIATE DEVIATION WITH APPROVAL FROM THE OWNER. EBS IS AVAILABLE TO ASSIST WHEN REQUIRED IF ISSUES ARISE.

GENERAL NOTES - ELEVATOR(S)

A. FURNISH AND INSTALL ALL REQUIRED ELECTRICAL COMPONENTS AND CONNECTIONS FOR ELEVATOR OPERATION. REFER TO ELEVATOR SHOP DRAWINGS FOR COMPLETE INFORMATION. PROVIDE SHUNT-TRIP OPERATION FOR ELEVATOR CIRCUIT WHERE REQUIRED. INCLUDE CONNECTIONS FOR SHAFT, SUMP PUMP, PIT LIGHT, RECEPTACLE, CAB LIGHT, ETC. BASIS OF DESIGN HP AND CIRCUIT CHARACTERISTICS SHOWN ON DRAWINGS MUST BE VERIFIED WITH ELEVATOR SUPPLIER PRIOR TO ROUGH-IN OR INSTALLATION.

GENERAL NOTES - GENERATOR

A. GENERATORS, TRANSFER SWITCHES, FUEL CAPACITY/RUN-TIMES, AND START-UP/OPERATION REQUIREMENTS SHALL CONFORM TO THE REQUIREMENTS FOR THEIR USE - STAND-BY, LEGALLY REQUIRED STAND-BY, EMERGENCY, ETC.

B. CONTRACTOR SHALL COORDINATE PAD REQUIREMENTS WITH GENERATOR SUPPLIER AND LOCATE ALL CONDUIT OPENINGS PER MANUFACTURER'S INSTALLATION GUIDES.

C. PROVIDE ALL ANCILLARY WIRING FOR CONTROL, COMMUNICATION, BATTERY CHARGE, BLOCK HEATER, ETC.

D. INSTALL PAD AND GENERATOR SUCH THAT REQUIRED CLEARANCES FROM BUILDINGS, BUILDING OPENINGS, AND OTHER OBSTRUCTIONS ARE MAINTAINED.

E. COORDINATE GENERATOR CIRCUIT BREAKER/FEEDER REQUIREMENTS WITH ACTUAL EQUIPMENT BEING CONNECTED - FIRE PUMP, ETC.

F. WHERE THE GENERATOR IS REQUIRED TO OPERATE AS A SEPARATELY DERIVED SYSTEM (GENERATOR SERVING MULTIPLE BUILDINGS/STRUCTURES FOR EXAMPLE) PROVIDE PROPER GROUNDING AND USE 4-POLE TRANSFER SWITCHES AS REQUIRED BY NEC 250.

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A. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL CONDUIT/CABLE ROUTING. COORDINATE ROUTING WITH ALL OTHER TRADES AND BUILDING CONDITIONS.

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B. INSTALLING CONTRACTOR SHALL FURNISH ALL REQUIRED DRAWINGS AND CALCULATIONS REQUIRED FOR FIRE ALARM PERMIT. DRAWINGS AND CALCULATIONS SHALL BE PREPARED BY AN INDIVIDUAL CARRYING ALL CERTIFICATIONS REQUIRED BY THE AGENCY RESPONSIBLE FOR REVIEW AND APPROVAL.

C. REQUIRED COMPONENTS THAT ARE NOT SHOWN ON DRAWINGS SUCH AS; RELAY MODULES MONITOR MODULES, BOOSTER PANELS, ANNUNCIATORS, ETC. ARE THE RESPONSIBILITY OF THIS CONTRACTOR AND ARE INCLUDED IN THIS SCOPE OF WORK.

KEYED SHEET NOTES - OVERALL

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2. EC TO ROUGH IN POWER AND DATA FOR AI PHONE DOOR RELEASE. COORDINATE LOCATION AND REQUIREMENTS WITH GC AND SECURITY CONTRACTOR BEFORE ROUGH IN.
3. PROVIDE A PATHWAY FOR THE SECURITY CONTRACTOR FOR A DOOR POSITION SWITCH. FIELD COORDINATE LOCATION WITH SECURITY CONTRACTOR PRIOR TO ROUGH IN.
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6. PROVIDE JUNCTION BOX AND CIRCUIT FOR CARD READER AND PUSH BUTTON SWITCHES. FIELD COORDINATE LOCATION AND REQUIREMENTS WITH SECURITY CONTRACTOR PRIOR TO ROUGH IN.
7. PROVIDE 4'X4'X3/4" PLYWOOD BACKBOARD AND QUAD RECETPACLE FOR DATA/PHONE UTILITIES. PROVIDE CONDUIT FROM THIS LOCATION TO UTILITY INFRASTRUCTURE FOR UTILITY USE. CONFIRM LOCATION, QUANTITY, AND SIZE OF CONDUITS NECESSARY WITH UTILITY PROVIDER PRIOR TO INSTALLATION. INSTALL OWNER SPECIFIED CABLE FROM THIS LOCATION TO IDF CLOSETS
   7.1. PROVIDE PLYWOOD BACKBOARD AND QUAD RECEPTACLE IN IDF CLOSETS. TELEDATA HOMERUNS IN APARTMENT UNITS ARE BROUGHT BACK TO THIS LOCATION.
8. PROVIDE DEDICATED CIRCUIT FOR FIRE ALARM PANEL AND A REMOTE ANNUNCIATOR AT THE BUILDING ENTRANCE. LOCATION TO BE APPROVED BY GC AND AHJ PRIOR TO INSTALLATION.
9. PROVIDE BRANCH CIRCUIT FOR RADON MITIGATION SYSTEM. DISCONNECT TO BE INSTALLED WITHIN TEN FEET OF FAN, CIRCUIT BREAKER MUST BE LABELED "RADON REDUCTION SYSTEM". COORDINATE LOCATION OF BRANCH CIRCUIT WITH INSTALLING CONTRACTOR.
10. PROVIDE A QUAD RECEPTACLE FOR WALL MOUNTED RACK FOR SECURITY CAMERA AND HEAD END EQUIPMENT FOR ACCESS CONTROL. FIELD COORDINATE FINAL LOCATION WITH GC PRIOR TO ROUGH IN.
11. DEVICE IS FOR CONNECTION OF A TEMPORARY MOBILE GENERATOR FOR THE ELEVATOR IN THE EVENT OF A POWER OUTAGE. SEE KEYED NOTE 1 ON SHEET E400 FOR MORE INFORMATION.

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Key Plan:

PR - 10665

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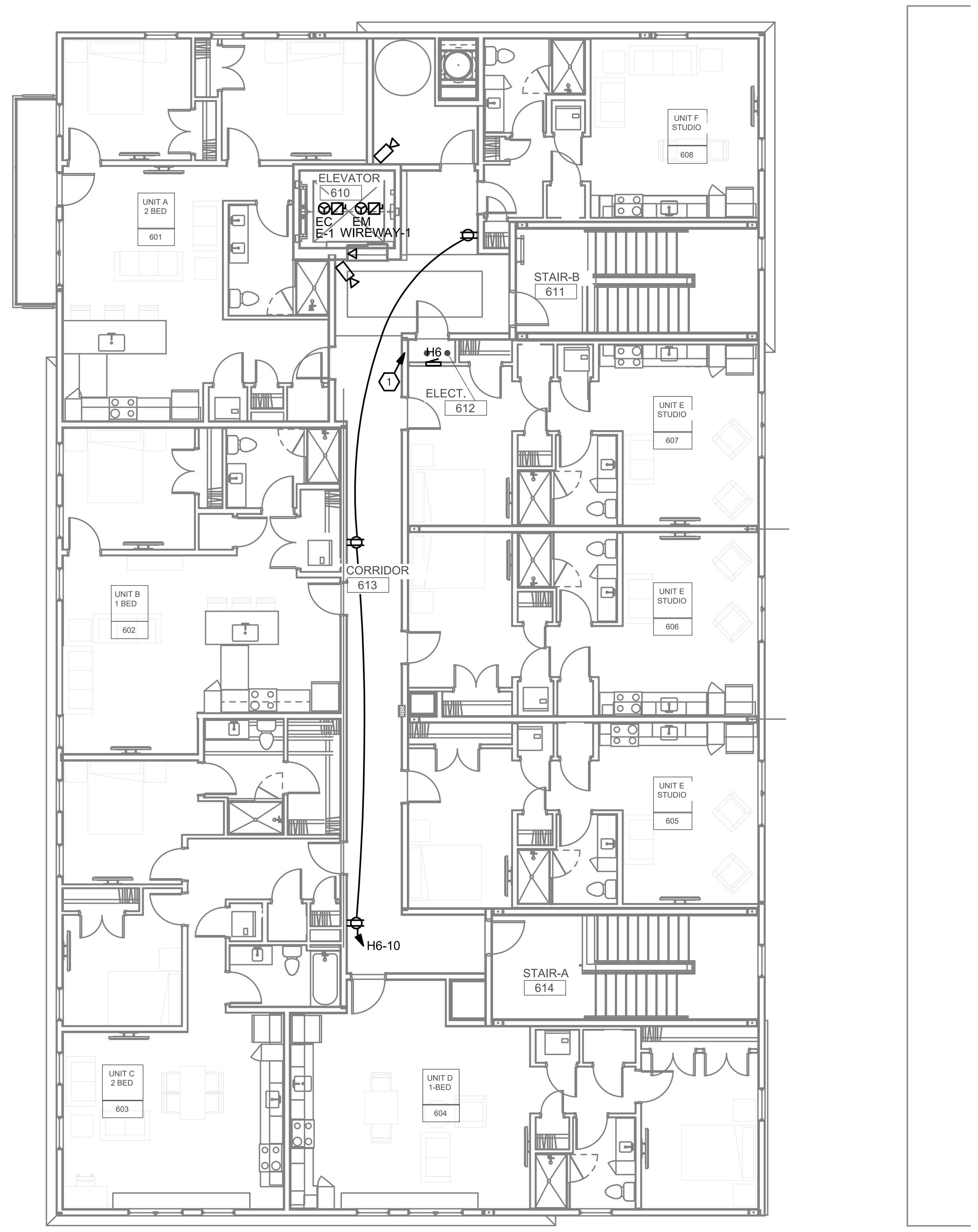
Columbia St., Indiana

REVISION		
No.	Date	Revision

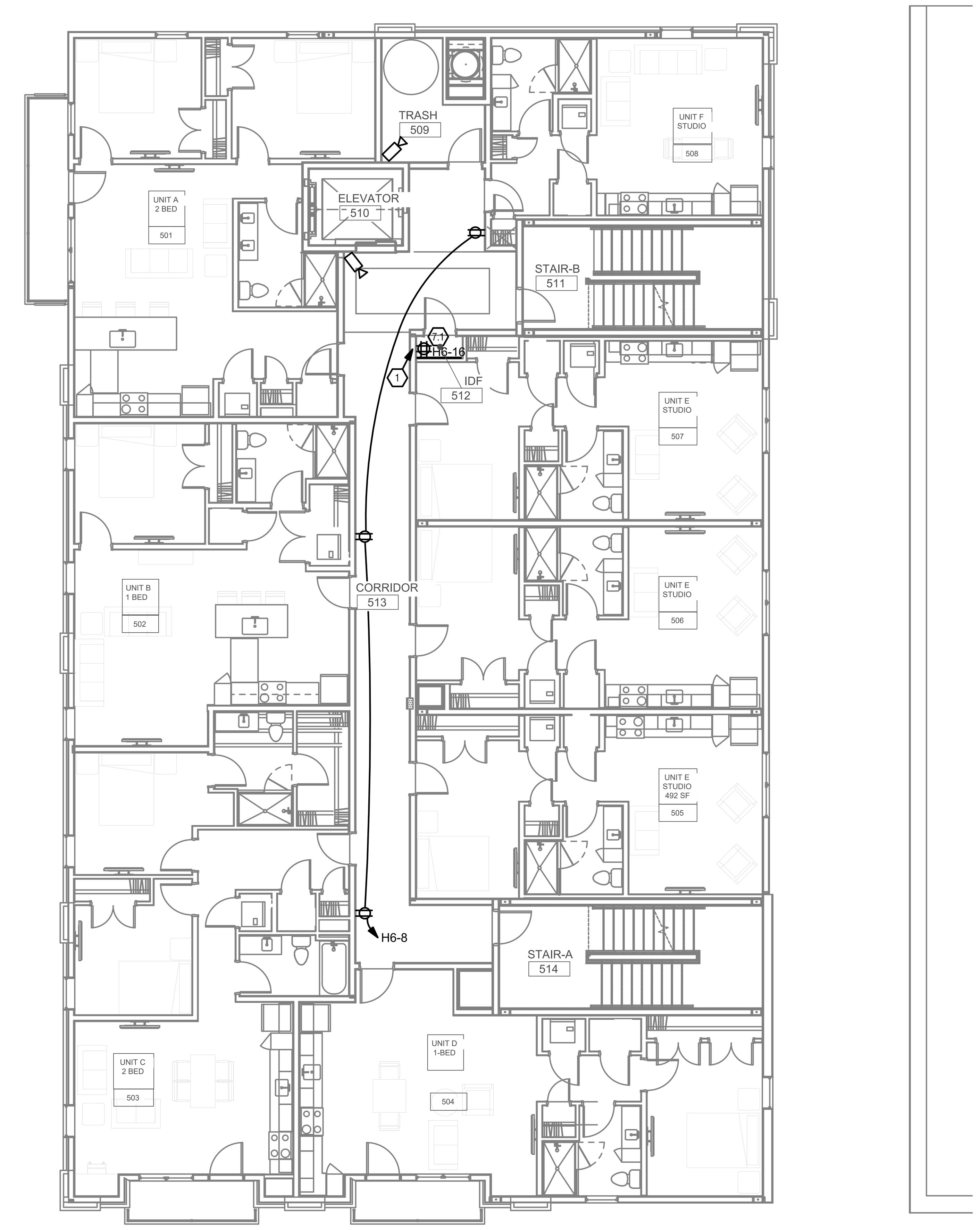
DRAWING CONTENTS:
ELECTRICAL POWER THIRD & FOURTH FLOOR PLAN

ISSUE DATE: 09-03-24
PROJECT NO. 10665

DRAWING NO.
E-101



2 E-102 ELECTRICAL POWER SIXTH FLOOR PLAN
SCALE: 1/8" = 1'-0"



1 E-102 ELECTRICAL POWER FIFTH FLOOR PLAN
SCALE: 1/8" = 1'-0"

SCOPE OF WORK

NEW CONSTRUCTION OF A SIX FLOOR MULTI USE BUILDING. FIRST FLOOR INCLUDES SHELL FOR FUTURE COMMERCIAL TENANT SPACES. FLOORS TWO THROUGH SIX ARE FOR RESIDENTIAL TENANTS. SCOPE OF WORK INCLUDES NEW DEVICES, LIGHTING, AND BRANCH CIRCUIT WIRING. SEE SINGLE LINE DIAGRAM, PANEL SCHEDULES, AND DETAILS SHEETS FOR MORE INFORMATION.

GENERAL NOTES - OVERALL PROJECT

A. EBS DRAWINGS INDICATE DESIGN INTENT AND REQUIRED OUTCOMES. IF CONDITIONS ARISE IN THE FIELD THAT REQUIRE DEVIATIONS FROM THE DRAWINGS IT IS ASSUMED THAT THE CONTRACTOR WILL DETERMINE THE APPROPRIATE DEVIATION WITH APPROVAL FROM THE OWNER. EBS IS AVAILABLE TO ASSIST WHEN REQUIRED IF ISSUES ARISE.

GENERAL NOTES - ELEVATOR(S)

A. FURNISH AND INSTALL ALL REQUIRED ELECTRICAL COMPONENTS AND CONNECTIONS FOR ELEVATOR OPERATION. REFER TO ELEVATOR SHOP DRAWINGS FOR COMPLETE INFORMATION. PROVIDE SHUNT-TRIP OPERATION FOR ELEVATOR CIRCUIT WHERE REQUIRED. INCLUDE CONNECTIONS FOR SHAFT, SUMP PUMP, PIT LIGHT, RECEPTACLE, CAB LIGHT, ETC. BASIS OF DESIGN HP AND CIRCUIT CHARACTERISTICS SHOWN ON DRAWINGS MUST BE VERIFIED WITH ELEVATOR SUPPLIER PRIOR TO ROUGH-IN OR INSTALLATION.

GENERAL NOTES - GENERATOR

A. GENERATORS, TRANSFER SWITCHES, FUEL CAPACITY/RUN-TIMES, AND START-UP/OPERATION REQUIREMENTS SHALL CONFORM TO THE REQUIREMENTS FOR THEIR USE - STAND-BY, LEGALLY REQUIRED STAND-BY, EMERGENCY, ETC.

B. CONTRACTOR SHALL COORDINATE PAD REQUIREMENTS WITH GENERATOR SUPPLIER AND LOCATE ALL CONDUIT OPENINGS PER MANUFACTURER'S INSTALLATION GUIDES.

C. PROVIDE ALL ANCILLARY WIRING FOR CONTROL, COMMUNICATION, BATTERY CHARGE, BLOCK HEATER, ETC.

D. INSTALL PAD AND GENERATOR SUCH THAT REQUIRED CLEARANCES FROM BUILDINGS, BUILDING OPENINGS, AND OTHER OBSTRUCTIONS ARE MAINTAINED.

E. COORDINATE GENERATOR CIRCUIT BREAKER/FEEDER REQUIREMENTS WITH ACTUAL EQUIPMENT BEING CONNECTED - FIRE PUMP, ETC.

F. WHERE THE GENERATOR IS REQUIRED TO OPERATE AS A SEPARATELY DERIVED SYSTEM (GENERATOR SERVING MULTIPLE BUILDINGS/STRUCTURES FOR EXAMPLE) PROVIDE PROPER GROUNDING AND USE 4-POLE TRANSFER SWITCHES AS REQUIRED BY NEC 250.

GENERAL NOTES - POWER

A. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL CONDUIT/CABLE ROUTING. COORDINATE ROUTING WITH ALL OTHER TRADES AND BUILDING CONDITIONS.

B. SEE SINGLE LINE DIAGRAM FOR FEEDER WIRE AND CONDUIT SIZE. ALL CIRCUITS NOT SIZED ON DRAWING SHALL BE INSTALLED TO MEET MINIMUM SIZE REQUIRED BY NEC.

C. PROVIDE MOTOR STARTERS FOR EQUIPMENT AS INDICATED ON DRAWINGS. COORDINATE ANY INTERLOCKING WIRING WITH HVAC CONTRACTOR AND PROVIDE WIRING, COILS, AND AUXILIARY CONTACTS AS NECESSARY. SIZE ALL CIRCUITS FOR ACTUAL EQUIPMENT TO BE CONNECTED.

D. ALL PANELS AND DISCONNECTS LOCATED OUTDOORS SHALL BE LABELED NEMA 3R.

E. ROOF MOUNTED AND OUTDOOR EQUIPMENT SHALL HAVE 120V RECEPTACLE MOUNTED WITHIN 25' OF EACH PIECE. RECEPTACLES SHALL BE IN WEATHER PROOF BOX AND HAVE GFCI PROTECTION.

F. FOR ITEMS FURNISHED BY OTHER TRADES, ELECTRICAL CONTRACTOR TO FULLY COORDINATE BREAKER AND WIRE SIZES WITH ACTUAL EQUIPMENT BEING CONNECTED PRIOR TO ROUGH-IN, OR INSTALLATION. THE SIZES ON PANEL SCHEDULES REFER TO BASIS OF DESIGN SELECTIONS, AND ACTUAL ITEMS MAY DEVIATE FROM BASIS OF DESIGN. IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO CONFIRM REQUIRED WIRE AND BREAKER SIZES WITH THE CONTRACTOR FURNISHING THE EQUIPMENT.

G. REFER TO ARCHITECT'S PLANS AND ELEVATIONS FOR ALL DEVICE MOUNTING HEIGHTS.

H. CONTRACTOR TO PROVIDE GROUNDING AND BONDING AS REQUIRED FOR ELECTRICAL SYSTEMS. GROUNDING AND BONDING IS CONSIDERED MEANS AND METHODS OF CONSTRUCTION, AND SHOULD BE COMPLETED BY THE ELECTRICAL CONTRACTOR IN ACCORDANCE WITH NEC 250. GAS PIPING SYSTEMS MUST BE BONDED PER UTILITY PROVIDER'S INSTALLATION GUIDELINES WHERE REQUIRED.

I. GFCI DEVICES MUST BE INSTALLED IN ACCESSIBLE LOCATIONS AND NOT PLACED BEHIND EQUIPMENT.

FIRE ALARM - DELEGATED DESIGN

A. COMPLY WITH PERFORMANCE REQUIREMENTS AND DESIGN CRITERIA CONTAINED ON DRAWINGS. RESPONSIBILITY FOR PROVIDING A COMPLIANT, OPERATIONAL FIRE ALARM SYSTEM LIES WITH THIS CONTRACTOR. REFER TO ARCHITECT'S CODE SHEET FOR USE GROUP AND OCCUPANT INFORMATION WHEN PROVIDING THE FIRE ALARM DESIGN. VERIFY REQUIREMENTS SPECIFIC TO PROJECT LOCALITY AND INCLUDE IN SCOPE.

B. INSTALLING CONTRACTOR SHALL FURNISH ALL REQUIRED DRAWINGS AND CALCULATIONS REQUIRED FOR FIRE ALARM PERMIT. DRAWINGS AND CALCULATIONS SHALL BE PREPARED BY AN INDIVIDUAL CARRYING ALL CERTIFICATIONS REQUIRED BY THE AGENCY RESPONSIBLE FOR REVIEW AND APPROVAL.

C. REQUIRED COMPONENTS THAT ARE NOT SHOWN ON DRAWINGS SUCH AS; RELAY MODULES MONITOR MODULES, BOOSTER PANELS, ANNUNCIATORS, ETC. ARE THE RESPONSIBILITY OF THIS CONTRACTOR AND ARE INCLUDED IN THIS SCOPE OF WORK.

KEYED SHEET NOTES - OVERALL

1. VERTICAL FIRE ALARM AND DATA VERTICAL CABLING TO BE ROUTED IN NON RATED WALLS.
2. EC TO ROUGH IN POWER AND DATA FOR AI PHONE DOOR RELEASE. COORDINATE LOCATION AND REQUIREMENTS WITH GC AND SECURITY CONTRACTOR BEFORE ROUGH IN.
3. PROVIDE A PATHWAY FOR THE SECURITY CONTRACTOR FOR A DOOR POSITION SWITCH. FIELD COORDINATE LOCATION WITH SECURITY CONTRACTOR PRIOR TO ROUGH IN.
4. ROUGH IN PUSH BUTTON FOR DOOR. FIELD COORDINATE LOCATION WITH GC AND SECURITY CONTRACTOR PRIOR TO ROUGH IN.
5. ROUGH IN CARD READER FOR DOOR. FIELD COORDINATE LOCATION WITH GC AND SECURITY CONTRACTOR PRIOR TO ROUGH IN.
6. PROVIDE JUNCTION BOX AND CIRCUIT FOR CARD READER AND PUSH BUTTON SWITCHES. FIELD COORDINATE LOCATION AND REQUIREMENTS WITH SECURITY CONTRACTOR PRIOR TO ROUGH IN.
7. PROVIDE 4'X4'X3/4" PLYWOOD BACKBOARD AND QUAD RECETPACLE FOR DATA/PHONE UTILITIES. PROVIDE CONDUIT FROM THIS LOCATION TO UTILITY INFRASTRUCTURE FOR UTILITY USE. CONFIRM LOCATION, QUANTITY, AND SIZE OF CONDUITS NECESSARY WITH UTILITY PROVIDER PRIOR TO INSTALLATION. INSTALL OWNER SPECIFIED CABLE FROM THIS LOCATION TO IDF CLOSETS
   - 7.1. PROVIDE PLYWOOD BACKBOARD AND QUAD RECEPTACLE IN IDF CLOSETS. TELEDATA HOMERUNS IN APARTMENT UNITS ARE BROUGHT BACK TO THIS LOCATION.
8. PROVIDE DEDICATED CIRCUIT FOR FIRE ALARM PANEL AND A REMOTE ANNUNCIATOR AT THE BUILDING ENTRANCE. LOCATION TO BE APPROVED BY GC AND AHJ PRIOR TO INSTALLATION.
9. PROVIDE BRANCH CIRCUIT FOR RADON MITIGATION SYSTEM. DISCONNECT TO BE INSTALLED WITHIN TEN FEET OF FAN, CIRCUIT BREAKER MUST BE LABELED "RADON REDUCTION SYSTEM". COORDINATE LOCATION OF BRANCH CIRCUIT WITH INSTALLING CONTRACTOR.
10. PROVIDE A QUAD RECEPTACLE FOR WALL MOUNTED RACK FOR SECURITY CAMERA AND HEAD END EQUIPMENT FOR ACCESS CONTROL. FIELD COORDINATE FINAL LOCATION WITH GC PRIOR TO ROUGH IN.
11. DEVICE IS FOR CONNECTION OF A TEMPORARY MOBILE GENERATOR FOR THE ELEVATOR IN THE EVENT OF A POWER OUTAGE. SEE KEYED NOTE 1 ON SHEET E400 FOR MORE INFORMATION.

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REVISION		
No.	Date	Revision

DRAWING CONTENTS:
ELECTRICAL POWER FIFTH & SIXTH FLOOR PLAN

ISSUE DATE: 09-03-24
PROJECT NO. 10665

DRAWING NO.
E-102

N

1 E-103 ELECTRICAL POWER ROOF FLOOR PLAN

SCALE: 1/8" = 1'-0"

SCOPE OF WORK

NEW CONSTRUCTION OF A SIX FLOOR MULTI USE BUILDING. FIRST FLOOR INCLUDES SHELL FOR FUTURE COMMERCIAL TENANT SPACES. FLOORS TWO THROUGH SIX ARE FOR RESIDENTIAL TENANTS. SCOPE OF WORK INCLUDES NEW DEVICES, LIGHTING, AND BRANCH CIRCUIT WIRING. SEE SINGLE LINE DIAGRAM, PANEL SCHEDULES, AND DETAILS SHEETS FOR MORE INFORMATION.

GENERAL NOTES - OVERALL PROJECT

A. EBS DRAWINGS INDICATE DESIGN INTENT AND REQUIRED OUTCOMES. IF CONDITIONS ARISE IN THE FIELD THAT REQUIRE DEVIATIONS FROM THE DRAWINGS IT IS ASSUMED THAT THE CONTRACTOR WILL DETERMINE THE APPROPRIATE DEVIATION WITH APPROVAL FROM THE OWNER. EBS IS AVAILABLE TO ASSIST WHEN REQUIRED IF ISSUES ARISE.

GENERAL NOTES - ELEVATOR(S)

A. FURNISH AND INSTALL ALL REQUIRED ELECTRICAL COMPONENTS AND CONNECTIONS FOR ELEVATOR OPERATION. REFER TO ELEVATOR SHOP DRAWINGS FOR COMPLETE INFORMATION. PROVIDE SHUNT-TRIP OPERATION FOR ELEVATOR CIRCUIT WHERE REQUIRED. INCLUDE CONNECTIONS FOR SHAFT, SUMP PUMP, PIT LIGHT, RECEPTACLE, CAB LIGHT, ETC. BASIS OF DESIGN HP AND CIRCUIT CHARACTERISTICS SHOWN ON DRAWINGS MUST BE VERIFIED WITH ELEVATOR SUPPLIER PRIOR TO ROUGH-IN OR INSTALLATION.

GENERAL NOTES - GENERATOR

A. GENERATORS, TRANSFER SWITCHES, FUEL CAPACITY/RUN-TIMES, AND START-UP/OPERATION REQUIREMENTS SHALL CONFORM TO THE REQUIREMENTS FOR THEIR USE - STAND-BY, LEGALLY REQUIRED STAND-BY, EMERGENCY, ETC.

B. CONTRACTOR SHALL COORDINATE PAD REQUIREMENTS WITH GENERATOR SUPPLIER AND LOCATE ALL CONDUIT OPENINGS PER MANUFACTURER'S INSTALLATION GUIDES.

C. PROVIDE ALL ANCILLARY WIRING FOR CONTROL, COMMUNICATION, BATTERY CHARGE, BLOCK HEATER, ETC.

D. INSTALL PAD AND GENERATOR SUCH THAT REQUIRED CLEARANCES FROM BUILDINGS, BUILDING OPENINGS, AND OTHER OBSTRUCTIONS ARE MAINTAINED.

E. COORDINATE GENERATOR CIRCUIT BREAKER/FEEDER REQUIREMENTS WITH ACTUAL EQUIPMENT BEING CONNECTED - FIRE PUMP, ETC.

F. WHERE THE GENERATOR IS REQUIRED TO OPERATE AS A SEPARATELY DERIVED SYSTEM (GENERATOR SERVING MULTIPLE BUILDINGS/STRUCTURES FOR EXAMPLE) PROVIDE PROPER GROUNDING AND USE 4-POLE TRANSFER SWITCHES AS REQUIRED BY NEC 250.

GENERAL NOTES - POWER

A. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL CONDUIT/CABLE ROUTING. COORDINATE ROUTING WITH ALL OTHER TRADES AND BUILDING CONDITIONS.

B. SEE SINGLE LINE DIAGRAM FOR FEEDER WIRE AND CONDUIT SIZE. ALL CIRCUITS NOT SIZED ON DRAWING SHALL BE INSTALLED TO MEET MINIMUM SIZE REQUIRED BY NEC.

C. PROVIDE MOTOR STARTERS FOR EQUIPMENT AS INDICATED ON DRAWINGS. COORDINATE ANY INTERLOCKING WIRING WITH HVAC CONTRACTOR AND PROVIDE WIRING, COILS, AND AUXILIARY CONTACTS AS NECESSARY. SIZE ALL CIRCUITS FOR ACTUAL EQUIPMENT TO BE CONNECTED.

D. ALL PANELS AND DISCONNECTS LOCATED OUTDOORS SHALL BE LABELED NEMA 3R.

E. ROOF MOUNTED AND OUTDOOR EQUIPMENT SHALL HAVE 120V RECEPTACLE MOUNTED WITHIN 25' OF EACH PIECE. RECEPTACLES SHALL BE IN WEATHER PROOF BOX AND HAVE GFCI PROTECTION.

F. FOR ITEMS FURNISHED BY OTHER TRADES, ELECTRICAL CONTRACTOR TO FULLY COORDINATE BREAKER AND WIRE SIZES WITH ACTUAL EQUIPMENT BEING CONNECTED PRIOR TO ROUGH-IN, OR INSTALLATION. THE SIZES ON PANEL SCHEDULES REFER TO BASIS OF DESIGN SELECTIONS, AND ACTUAL ITEMS MAY DEVIATE FROM BASIS OF DESIGN. IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO CONFIRM REQUIRED WIRE AND BREAKER SIZES WITH THE CONTRACTOR FURNISHING THE EQUIPMENT.

G. REFER TO ARCHITECT'S PLANS AND ELEVATIONS FOR ALL DEVICE MOUNTING HEIGHTS.

H. CONTRACTOR TO PROVIDE GROUNDING AND BONDING AS REQUIRED FOR ELECTRICAL SYSTEMS. GROUNDING AND BONDING IS CONSIDERED MEANS AND METHODS OF CONSTRUCTION, AND SHOULD BE COMPLETED BY THE ELECTRICAL CONTRACTOR IN ACCORDANCE WITH NEC 250. GAS PIPING SYSTEMS MUST BE BONDED PER UTILITY PROVIDER'S INSTALLATION GUIDELINES WHERE REQUIRED.

I. GFCI DEVICES MUST BE INSTALLED IN ACCESSIBLE LOCATIONS AND NOT PLACED BEHIND EQUIPMENT.

FIRE ALARM - DELEGATED DESIGN

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B. INSTALLING CONTRACTOR SHALL FURNISH ALL REQUIRED DRAWINGS AND CALCULATIONS REQUIRED FOR FIRE ALARM PERMIT. DRAWINGS AND CALCULATIONS SHALL BE PREPARED BY AN INDIVIDUAL CARRYING ALL CERTIFICATIONS REQUIRED BY THE AGENCY RESPONSIBLE FOR REVIEW AND APPROVAL.

C. REQUIRED COMPONENTS THAT ARE NOT SHOWN ON DRAWINGS SUCH AS; RELAY MODULES MONITOR MODULES, BOOSTER PANELS, ANNUNCIATORS, ETC. ARE THE RESPONSIBILITY OF THIS CONTRACTOR AND ARE INCLUDED IN THIS SCOPE OF WORK.

⟨#⟩ KEYED SHEET NOTES - OVERALL

1. VERTICAL FIRE ALARM AND DATA VERTICAL CABLING TO BE ROUTED IN NON RATED WALLS.
2. EC TO ROUGH IN POWER AND DATA FOR AI PHONE DOOR RELEASE. COORDINATE LOCATION AND REQUIREMENTS WITH GC AND SECURITY CONTRACTOR BEFORE ROUGH IN.
3. PROVIDE A PATHWAY FOR THE SECURITY CONTRACTOR FOR A DOOR POSITION SWITCH. FIELD COORDINATE LOCATION WITH SECURITY CONTRACTOR PRIOR TO ROUGH IN.
4. ROUGH IN PUSH BUTTON FOR DOOR. FIELD COORDINATE LOCATION WITH GC AND SECURITY CONTRACTOR PRIOR TO ROUGH IN.
5. ROUGH IN CARD READER FOR DOOR. FIELD COORDINATE LOCATION WITH GC AND SECURITY CONTRACTOR PRIOR TO ROUGH IN.
6. PROVIDE JUNCTION BOX AND CIRCUIT FOR CARD READER AND PUSH BUTTON SWITCHES. FIELD COORDINATE LOCATION AND REQUIREMENTS WITH SECURITY CONTRACTOR PRIOR TO ROUGH IN.
7. PROVIDE 4'X4'X3/4" PLYWOOD BACKBOARD AND QUAD RECETPACLE FOR DATA/PHONE UTILITIES. PROVIDE CONDUIT FROM THIS LOCATION TO UTILITY INFRASTRUCTURE FOR UTILITY USE. CONFIRM LOCATION, QUANTITY, AND SIZE OF CONDUITS NECESSARY WITH UTILITY PROVIDER PRIOR TO INSTALLATION. INSTALL OWNER SPECIFIED CABLE FROM THIS LOCATION TO IDF CLOSETS
   - 7.1. PROVIDE PLYWOOD BACKBOARD AND QUAD RECEPTACLE IN IDF CLOSETS. TELEDATA HOMERUNS IN APARTMENT UNITS ARE BROUGHT BACK TO THIS LOCATION.
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10. PROVIDE A QUAD RECEPTACLE FOR WALL MOUNTED RACK FOR SECURITY CAMERA AND HEAD END EQUIPMENT FOR ACCESS CONTROL. FIELD COORDINATE FINAL LOCATION WITH GC PRIOR TO ROUGH IN.
11. DEVICE IS FOR CONNECTION OF A TEMPORARY MOBILE GENERATOR FOR THE ELEVATOR IN THE EVENT OF A POWER OUTAGE. SEE KEYED NOTE 1 ON SHEET E400 FOR MORE INFORMATION.

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THE LANDING 3.0

NEW CONSTRUCTION
Columbia St., Indiana

REVISION		
No.	**Date**	**Revision**

DRAWING CONTENTS:
ELECTRICAL POWER
ROOF FLOOR PLAN

ISSUE DATE:
09-03-24

PROJECT NO.
10665

DRAWING NO.
E-103

LANDING OVERALL LUMINAIRE SCHEDULE

CALLOUT	DESCRIPTION	MODEL 1	FIXTURE WATTS	NOTE 1
EM	EMERGENCY WALL PACK - W/ 90 MIN. BACKUP	SURE LITES SEL-50	3	
EX/EM	EXIT/EMERGENCY COMBO - 90 MIN. BACKUP	SURE LITES APC-H-7-R	3	PROVIDE BATTERY CAPACITY FOR REMOTE AS REQ'D
P	LED LINEAR RGB PARAPET UP LIGHTING	KELVIX BTLX-C-CC3-5-AA	200	PROVIDE DMK TOUCHSCREEN CONTROLS
R4	4 INCH 1500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS AND 4LBCSSQ TRIM WITH MMS FINISH	COOPER LIGHTING SOLUTIONS - PORTFOLIO (FORMER EATON), LD4C15D010 EX4C159030 4LBCSSQMMS	15.8	
R4-EM	4 INCH 1500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS AND 4LBCSSQ TRIM WITH MMS FINISH	COOPER LIGHTING SOLUTIONS - PORTFOLIO (FORMER EATON), LD4C15D010 EX4C159030 4LBCSSQMMS	15.8	FIXTURE PROVIDED WITH REMOTE BATTERY FOR EMERGENCY ILLUMINATION
SM3	6" ROUND SURFACE MOUNT LED DOWNLIGHT	HALO SMD6R-12-930-WH	15.3	
SM30	31.5" ROUND SURFACE MOUNT LED DOWNLIGHT	LUMENS ZIGGURAT LED FLUSHMOUNT	155	
SM54	54" DECORATIVE FIRST FLOOR ELEVATOR LOBBY	LIUMENS CELESTE EPOC FLUSHOMOUNT, DIMMABLE, CHROME LUCID	140	
ST1-48	4' UTILITY STRIP FIXTURE	METALUX 4SNLED-LD5-48SL-UNV	19.3	
ST1-48-NL	4' UTILITY STRIP FIXTURE	METALUX 4SNLED-LD5-48SL-UNV	19.3	
W1-EM/NL	4' DECORATIVE CEILING MOUNTED STRIP FIXTURE	METALUX WP 4WP304OR	34.5	PROVIDE FIXTURE WITH BATTERY BACKUP FOR EMERGENCY ILLULMINATION
WM1-NL	UNIT ENTRY SCONCE (76" A.F.F.)	LIGHTOLOGY GLASS UP DOWN SLIM WALL SCONCE	8	
WM5	NOM. 6" DIAM. GAMMA INDIRECT/DIRECT CYLINDER	SPECTRUM LIGHTING, CW06XXUDPC 40LNDCL 40LNDCL 35XX XXMW (IND/DIR WET LOCATION)	54.8	

* NL DENOTES EGRESS ILLUMINATION

SCOPE OF WORK

NEW CONSTRUCTION OF A SIX FLOOR MULTI USE BUILDING. FIRST FLOOR INCLUDES SHELL FOR FUTURE COMMERCIAL TENANT SPACES. FLOORS TWO THROUGH SIX ARE FOR RESIDENTIAL TENANTS. SCOPE OF WORK INCLUDES NEW DEVICES, LIGHTING, AND BRANCH CIRCUIT WIRING. SEE SINGLE LINE DIAGRAM, PANEL SCHEDULES, AND DETAILS SHEETS FOR MORE INFORMATION.

GENERAL NOTES - OVERALL PROJECT

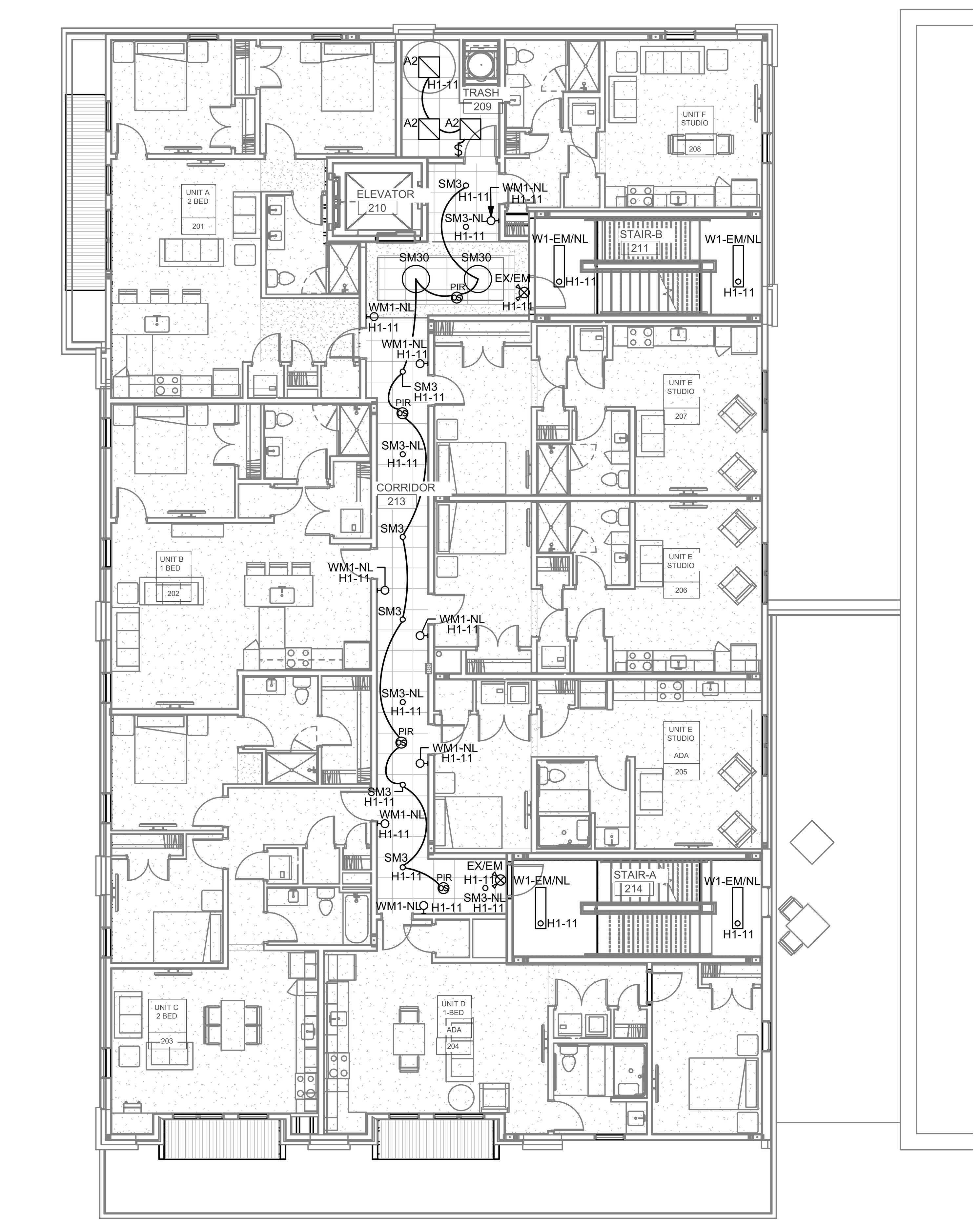
A. EBS DRAWINGS INDICATE DESIGN INTENT AND REQUIRED OUTCOMES. IF CONDITIONS ARISE IN THE FIELD THAT REQUIRE DEVIATIONS FROM THE DRAWINGS IT IS ASSUMED THAT THE CONTRACTOR WILL DETERMINE THE APPROPRIATE DEVIATION WITH APPROVAL FROM THE OWNER. EBS IS AVAILABLE TO ASSIST WHEN REQUIRED IF ISSUES ARISE.

GENERAL NOTES - LIGHTING

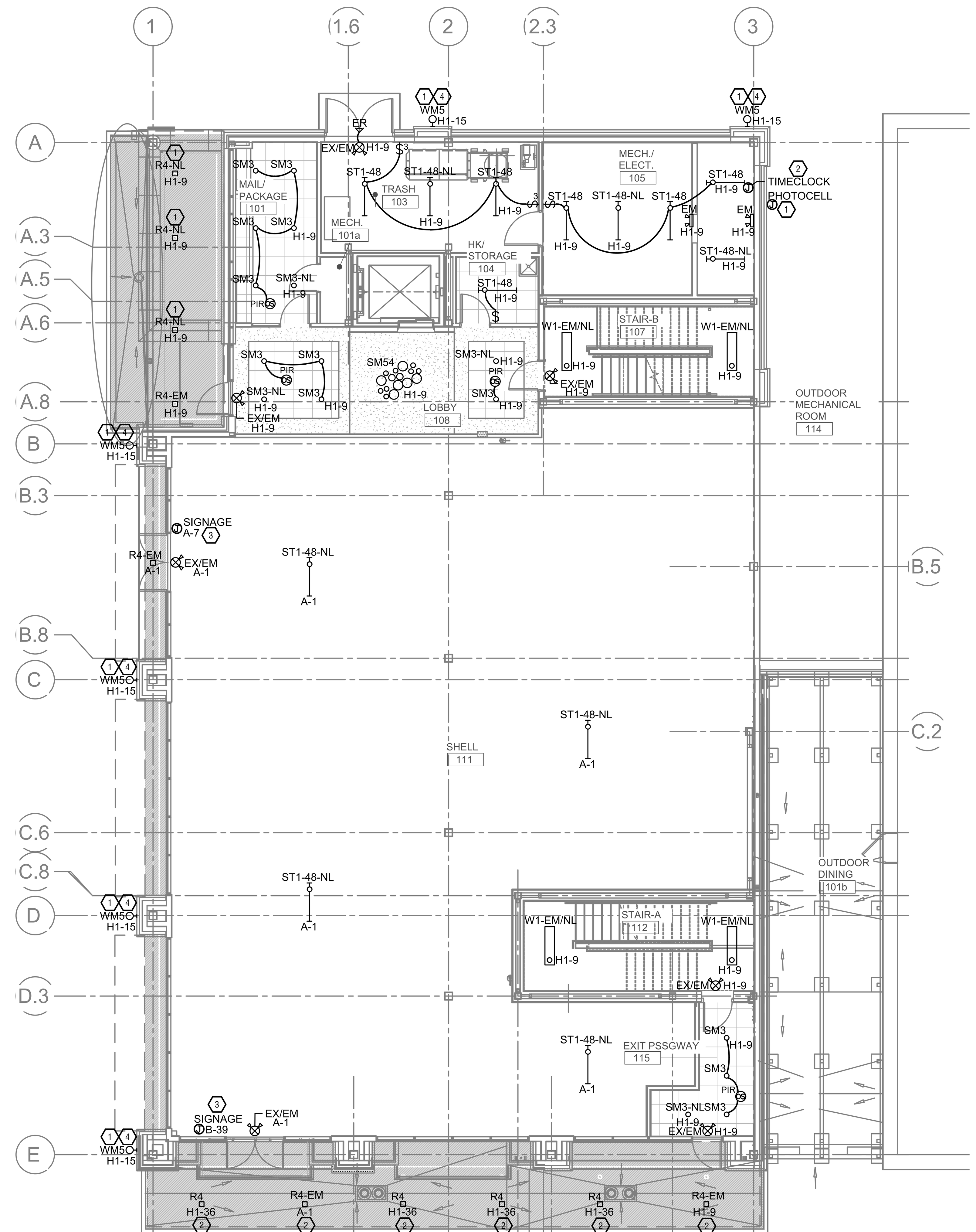
A. REFER TO ARCHITECT'S PLANS AND ELEVATIONS FOR DIMENSIONED LOCATIONS OF LIGHT FIXTURES.
B. PROVIDE HOLD-ON-TYPE BREAKERS FOR EGRESS/EMERGENCY LIGHTING CIRCUITS. WIRE ALL EGRESS/EMERGENCY FIXTURES AHEAD OF ANY LOCAL SWITCHING.
C. LIGHT FIXTURES CONTROLLED BY SWITCH IN SAME ROOM UNLESS OTHERWISE NOTED.
D. WHERE DIMMERS AND/OR DIMMING SYSTEMS ARE REQUIRED, CONTRACTOR TO FURNISH DIMMERS THAT ARE COMPATIBLE WITH FIXTURE SOURCE AND RATED FOR THE WATTAGE OF THE DIMMING ZONE. PROVIDE ADDITIONAL DIMMERS AS REQUIRED TO MEET ZONE LOAD REQUIREMENTS.

KEYED SHEET NOTES

1. EXTERIOR LIGHTING TO BE CONTROLLED BY PHOTOCELL.
2. EXTERIOR TENANT LIGHTING TO BE CONTROLLED BY TIMECLOCK. TIMECLOCK TO BE INSTALLED ADJACENT TO TENANT PANEL.
3. PROVIDE A CIRCUIT FOR BUILDING MOUNTED SIGNAGE. FIELD COORDINATE LOCATION WITH GC PRIOR TO INSTALLATION.
4. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION AND ELEVATION PRIOR TO ROUGH IN.
5. PARAPET LIGHTING TO BE CONTROLLED BY TIMECLOCK LOCATED ADJACENT TO THE SIXTH FLOOR HOUSE PANEL (H6). EC TO COORDINATE POWER LOCATIONS WITH LIGHTING SUPPLIER PRIOR TO ROUGH IN.



2 E-200 ELECTRICAL LIGHTING SECOND FLOOR PLAN
SCALE: 1/8" = 1'-0"



1 E-200 ELECTRICAL LIGHTING FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"

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Columbia St., Indiana

REVISION		
No.	**Date**	**Revision**

DRAWING CONTENTS:
ELECTRICAL LIGHTING FIRST & SECOND FLOOR PLAN

ISSUE DATE:	PROJECT NO.
09-03-24	10665

DRAWING NO.
E-200

LANDING OVERALL LUMINAIRE SCHEDULE

CALLOUT	DESCRIPTION	MODEL 1	FIXTURE WATTS	NOTE 1
EM	EMERGENCY WALL PACK - W/ 90 MIN. BACKUP	SURE LITES SEL-50	3	
EX/EM	EXIT/EMERGENCY COMBO - 90 MIN. BACKUP	SURE LITES APC-H-7-R	3	PROVIDE BATTERY CAPACITY FOR REMOTE AS REQ'D
P	LED LINEAR RGB PARAPET UP LIGHTING	KELVIX BTLX-C-CC3-5-AA	200	PROVIDE DMK TOUCHSCREEN CONTROLS
R4	4 INCH 1500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS AND 4LBCSSQ TRIM WITH MMS FINISH	COOPER LIGHTING SOLUTIONS - PORTFOLIO (FORMER EATON), LD4C15D010 EX4C159030 4LBCSSQMMS	15.8	
R4-EM	4 INCH 1500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS AND 4LBCSSQ TRIM WITH MMS FINISH	COOPER LIGHTING SOLUTIONS - PORTFOLIO (FORMER EATON), LD4C15D010 EX4C159030 4LBCSSQMMS	15.8	FIXTURE PROVIDED WITH REMOTE BATTERY FOR EMERGENCY ILLUMINATION
SM3	6" ROUND SURFACE MOUNT LED DOWNLIGHT	HALO SMD6R-12-930-WH	15.3	
SM30	31.5" ROUND SURFACE MOUNT LED DOWNLIGHT	LUMENS ZIGGURAT LED FLUSHMOUNT	155	
SM54	54" DECORATIVE FIRST FLOOR ELEVATOR LOBBY	LIUMENS CELESTE EPOC FLUSHOMOUNT, DIMMABLE, CHROME LUCID	140	
ST1-48	4' UTILITY STRIP FIXTURE	METALUX 4SNLED-LD5-48SL-UNV	19.3	
ST1-48-NL	4' UTILITY STRIP FIXTURE	METALUX 4SNLED-LD5-48SL-UNV	19.3	
W1-EM/NL	4' DECORATIVE CEILING MOUNTED STRIP FIXTURE	METALUX WP 4WP304OR	34.5	PROVIDE FIXTURE WITH BATTERY BACKUP FOR EMERGENCY ILLULMINATION
WM1-NL	UNIT ENTRY SCONCE (76" A.F.F.)	LIGHTOLOGY GLASS UP DOWN SLIM WALL SCONCE	8	
WM5	NOM. 6" DIAM, GAMMA INDIRECT/DIRECT CYLINDER	SPECTRUM LIGHTING, CW06XXUDPC 40LNDCL 40LNDCL 35XX XXMW (IND/DIR WET LOCATION)	54.8	

* NL DENOTES EGRESS ILLUMINATION

SCOPE OF WORK

NEW CONSTRUCTION OF A SIX FLOOR MULTI USE BUILDING. FIRST FLOOR INCLUDES SHELL FOR FUTURE COMMERCIAL TENANT SPACES. FLOORS TWO THROUGH SIX ARE FOR RESIDENTIAL TENANTS. SCOPE OF WORK INCLUDES NEW DEVICES, LIGHTING, AND BRANCH CIRCUIT WIRING. SEE SINGLE LINE DIAGRAM, PANEL SCHEDULES, AND DETAILS SHEETS FOR MORE INFORMATION.

GENERAL NOTES - OVERALL PROJECT

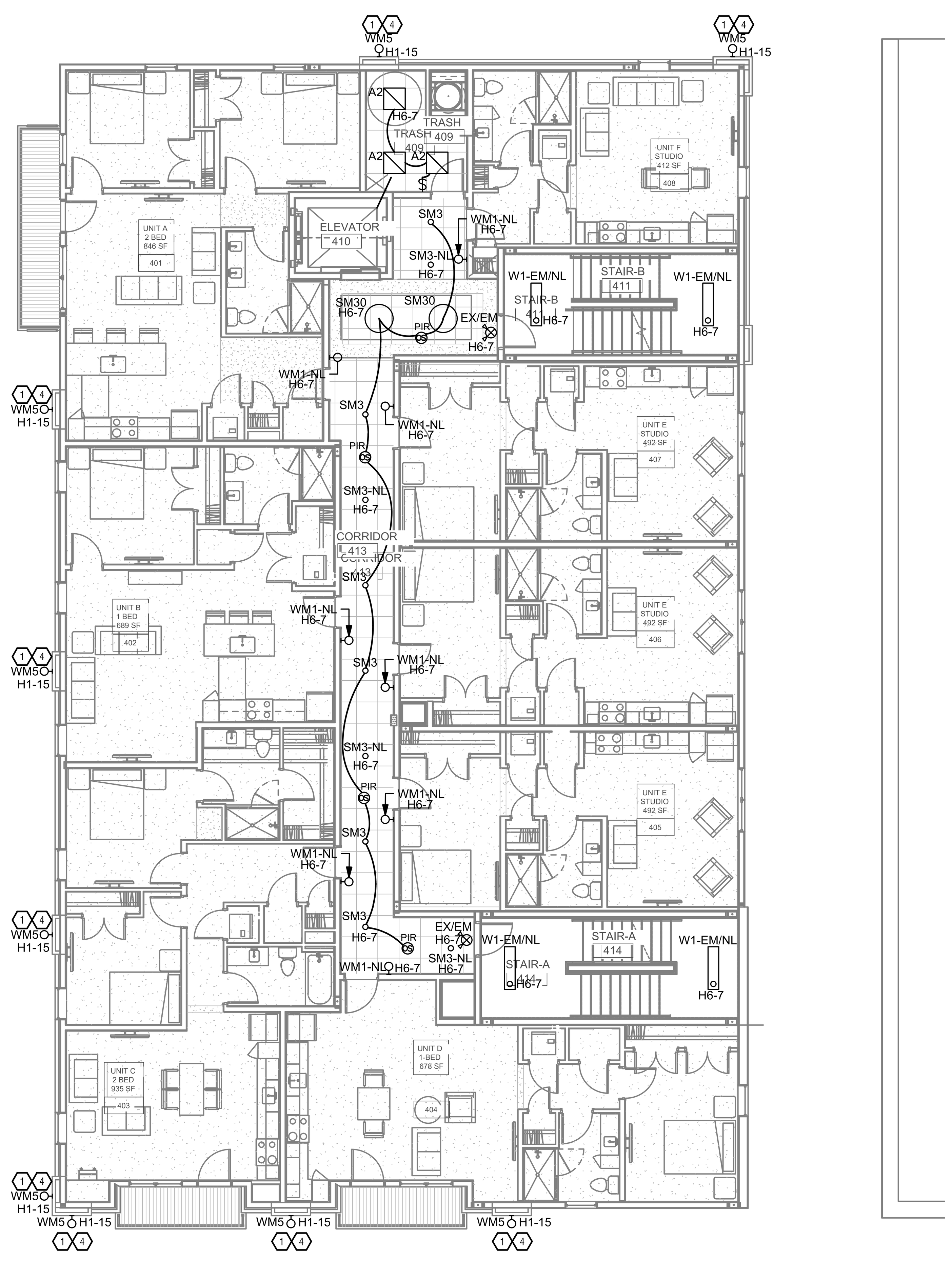
A. EBS DRAWINGS INDICATE DESIGN INTENT AND REQUIRED OUTCOMES. IF CONDITIONS ARISE IN THE FIELD THAT REQUIRE DEVIATIONS FROM THE DRAWINGS IT IS ASSUMED THAT THE CONTRACTOR WILL DETERMINE THE APPROPRIATE DEVIATION WITH APPROVAL FROM THE OWNER. EBS IS AVAILABLE TO ASSIST WHEN REQUIRED IF ISSUES ARISE.

GENERAL NOTES - LIGHTING

A. REFER TO ARCHITECT'S PLANS AND ELEVATIONS FOR DIMENSIONED LOCATIONS OF LIGHT FIXTURES.
B. PROVIDE HOLD-ON-TYPE BREAKERS FOR EGRESS/EMERGENCY LIGHTING CIRCUITS. WIRE ALL EGRESS/EMERGENCY FIXTURES AHEAD OF ANY LOCAL SWITCHING.
C. LIGHT FIXTURES CONTROLLED BY SWITCH IN SAME ROOM UNLESS OTHERWISE NOTED.
D. WHERE DIMMERS AND/OR DIMMING SYSTEMS ARE REQUIRED, CONTRACTOR TO FURNISH DIMMERS THAT ARE COMPATIBLE WITH FIXTURE SOURCE AND RATED FOR THE WATTAGE OF THE DIMMING ZONE. PROVIDE ADDITIONAL DIMMERS AS REQUIRED TO MEET ZONE LOAD REQUIREMENTS.

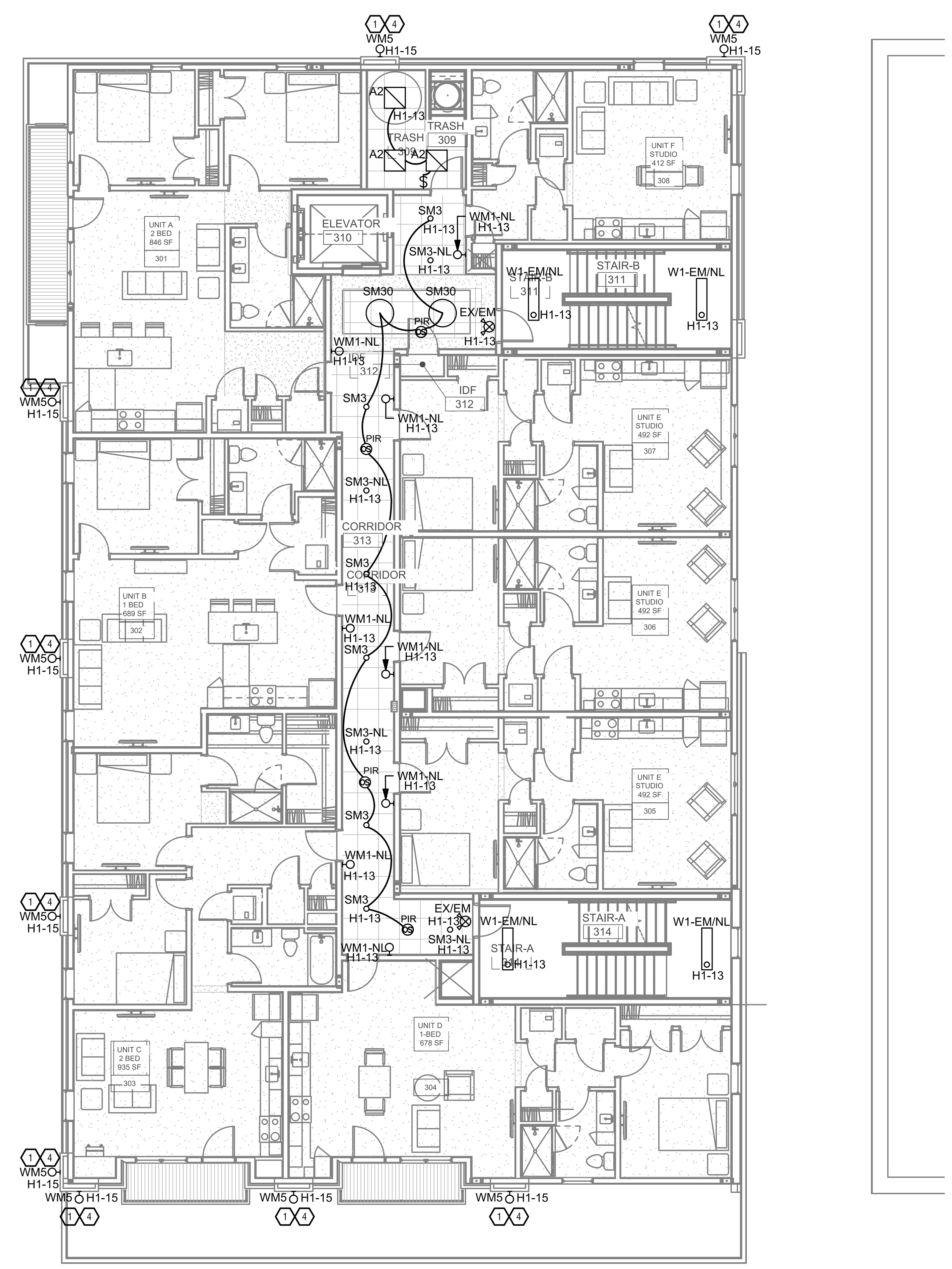
KEYED SHEET NOTES

1. EXTERIOR LIGHTING TO BE CONTROLLED BY PHOTOCELL.
2. EXTERIOR TENANT LIGHTING TO BE CONTROLLED BY TIMECLOCK. TIMECLOCK TO BE INSTALLED ADJACENT TO TENANT PANEL.
3. PROVIDE A CIRCUIT FOR BUILDING MOUNTED SIGNAGE. FIELD COORDINATE LOCATION WITH GC PRIOR TO INSTALLATION.
4. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION AND ELEVATION PRIOR TO ROUGH IN.
5. PARAPET LIGHTING TO BE CONTROLLED BY TIMECLOCK LOCATED ADJACENT TO THE SIXTH FLOOR HOUSE PANEL (H6). EC TO COORDINATE POWER LOCATIONS WITH LIGHTING SUPPLIER PRIOR TO ROUGH IN.



2 E-201 ELECTRICAL LIGHTING FOURTH FLOOR PLAN

SCALE: 1/8" = 1'-0"



1 E-201 ELECTRICAL LIGHTING THIRD FLOOR PLAN

SCALE: 1/8" = 1'-0"

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THE LANDING 3.0

NEW CONSTRUCTION
Columbia St., Indiana

REVISION		
No.	Date	Revision

DRAWING CONTENTS:
ELECTRICAL LIGHTING THIRD & FOURTH FLOOR PLAN

ISSUE DATE: 09-03-24
PROJECT NO: 10665

DRAWING NO.
E-201

LANDING OVERALL LUMINAIRE SCHEDULE

CALLOUT	DESCRIPTION	MODEL 1	FIXTURE WATTS	NOTE 1
EM	EMERGENCY WALL PACK - W/ 90 MIN. BACKUP	SURE LITES SEL-50	3	
EX/EM	EXIT/EMERGENCY COMBO - 90 MIN. BACKUP	SURE LITES APC-H-7-R	3	PROVIDE BATTERY CAPACITY FOR REMOTE AS REQ'D
P	LED LINEAR RGB PARAPET UP LIGHTING	KELVIX BTLX-C-CC3-5-AA	200	PROVIDE DMK TOUCHSCREEN CONTROLS
R4	4 INCH 1500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS AND 4LBCSSQ TRIM WITH MMS FINISH	COOPER LIGHTING SOLUTIONS - PORTFOLIO (FORMER EATON), LD4C15D010 EX4C159030 4LBCSSQMMS	15.8	
R4-EM	4 INCH 1500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS AND 4LBCSSQ TRIM WITH MMS FINISH	COOPER LIGHTING SOLUTIONS - PORTFOLIO (FORMER EATON), LD4C15D010 EX4C159030 4LBCSSQMMS	15.8	FIXTURE PROVIDED WITH REMOTE BATTERY FOR EMERGENCY ILLUMINATION
SM3	6" ROUND SURFACE MOUNT LED DOWNLIGHT	HALO SMD6R-12-930-WH	15.3	
SM30	31.5" ROUND SURFACE MOUNT LED DOWNLIGHT	LUMENS ZIGGURAT LED FLUSHMOUNT	155	
SM54	54" DECORATIVE FIRST FLOOR ELEVATOR LOBBY	LIUMENS CELESTE EPOC FLUSHOMOUNT, DIMMABLE, CHROME LUCID	140	
ST1-48	4' UTILITY STRIP FIXTURE	METALUX 4SNLED-LD5-48SL-UNV	19.3	
ST1-48-NL	4' UTILITY STRIP FIXTURE	METALUX 4SNLED-LD5-48SL-UNV	19.3	
W1-EM/NL	4' DECORATIVE CEILING MOUNTED STRIP FIXTURE	METALUX WP 4WP304OR	34.5	PROVIDE FIXTURE WITH BATTERY BACKUP FOR EMERGENCY ILLULMINATION
WM1-NL	UNIT ENTRY SCONCE (76" A.F.F.)	LIGHTOLOGY GLASS UP DOWN SLIM WALL SCONCE	8	
WM5	NOM. 6" DIAM. GAMMA INDIRECT/DIRECT CYLINDER	SPECTRUM LIGHTING, CW06XXUDPC 40LNDCL 40LNDCL 35XX XXMW (IND/DIR WET LOCATION)	54.8	

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SCOPE OF WORK

NEW CONSTRUCTION OF A SIX FLOOR MULTI USE BUILDING. FIRST FLOOR INCLUDES SHELL FOR FUTURE COMMERCIAL TENANT SPACES. FLOORS TWO THROUGH SIX ARE FOR RESIDENTIAL TENANTS. SCOPE OF WORK INCLUDES NEW DEVICES, LIGHTING, AND BRANCH CIRCUIT WIRING. SEE SINGLE LINE DIAGRAM, PANEL SCHEDULES, AND DETAILS SHEETS FOR MORE INFORMATION.

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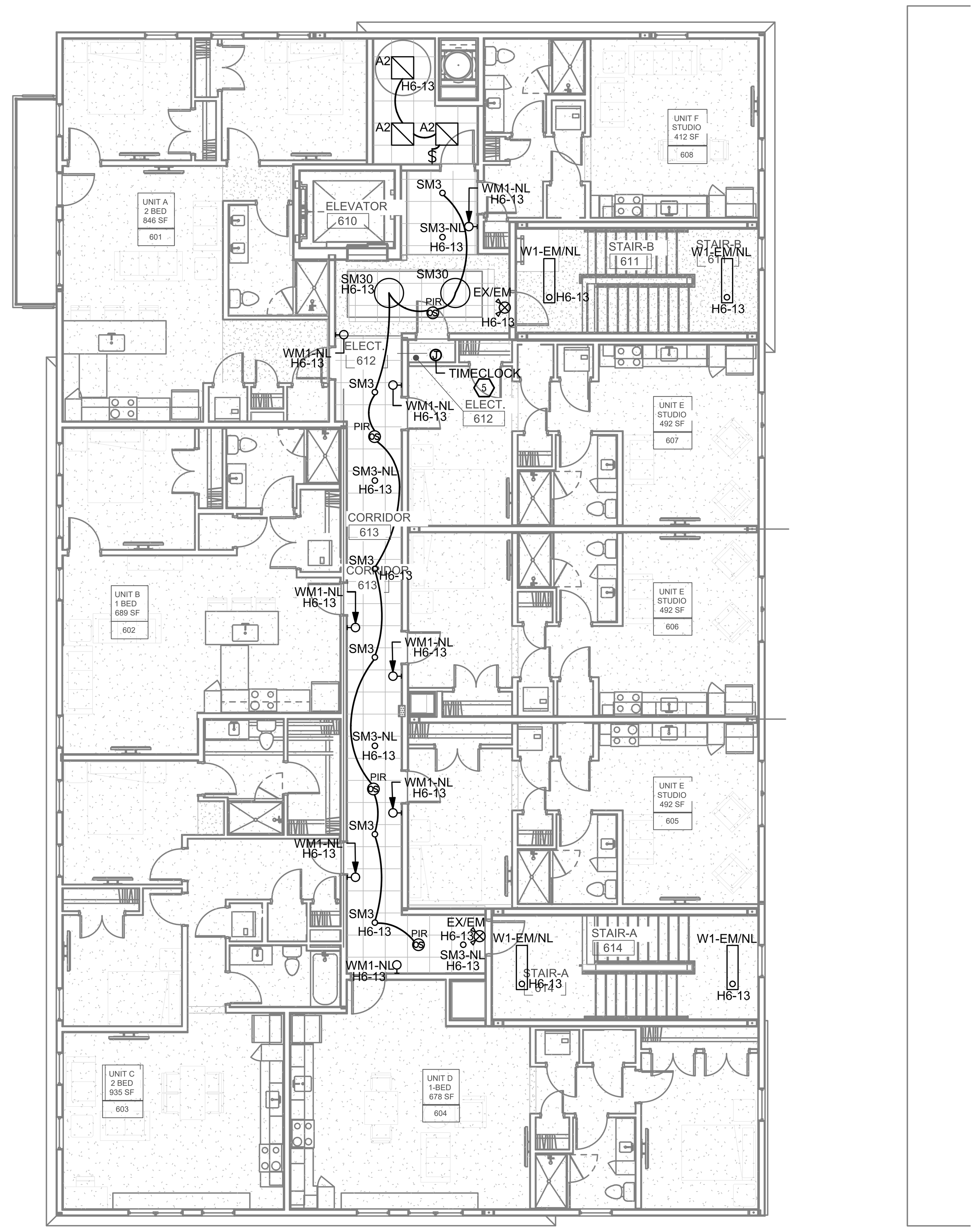
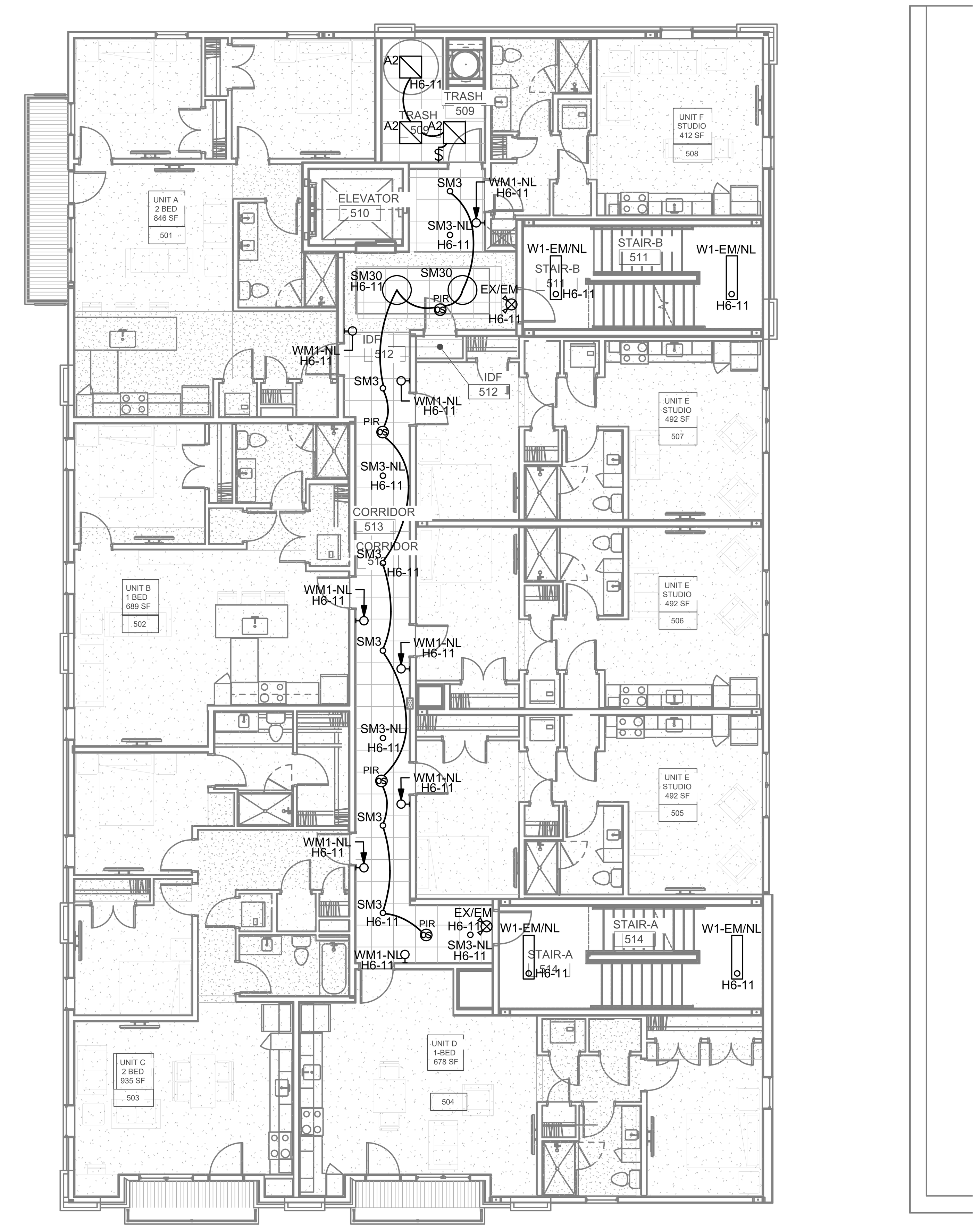


2 E-202 ELECTRICAL LIGHTING SIXTH FLOOR PLAN
SCALE: 1/8" = 1'-0"



1 E-202 ELECTRICAL LIGHTING FIFTH FLOOR PLAN
SCALE: 1/8" = 1'-0"

THESE DRAWINGS AND SPECIFICATIONS ARE NOT AUTHORIZED TO BE USED AS CONTRACT DOCUMENTS. THESE DRAWINGS HAVE BEEN PREPARED TO DEMONSTRATE COMPLIANCE WITH APPLICABLE CODES, AND ARE INTENDED TO PROVIDE THE AUTHORITIES HAVING JURISDICTION WITH INFORMATION TO DETERMINE CODE COMPLIANCE. THE INSTALLING CONTRACTOR IS RESPONSIBLE TO ENSURE THAT MEANS, METHODS, AND MATERIALS USED ARE INSTALLED IN ACCORDANCE WITH ANY CONTRACTUAL AGREEMENT THAT MAY EXIST WITH AN OWNER, CONSTRUCTION MANAGER, GENERAL CONTRACTOR, ETC. EBS ACCEPTS NO RESPONSIBILITY OR LIABILITY FOR THE COMPLIANCE OR CONDITION OF EXISTING EQUIPMENT AND WIRING.

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Key Plan:

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THE LANDING 3.0

NEW CONSTRUCTION
Columbia St., Indiana

REVISION		
No.	Date	Revision

DRAWING CONTENTS:
ELECTRICAL LIGHTING FIFTH & SIXTH FLOOR PLAN

ISSUE DATE:	PROJECT NO.
09-03-24	10665

DRAWING NO.:
E-202

Z:\~Project Directories\10600 - 10699\10665 - The Landing 3.0 - Fort Wayne IN\~Construction Documents\10665-E203-ELECTRICAL-LIGHTING-ROOF-PLAN.dwg-EBS. Plot Date/Time: Sep 12, 2024-1:24pm - By: elec.gates

LANDING OVERALL LUMINAIRE SCHEDULE

CALLOUT	DESCRIPTION	MODEL 1	FIXTURE WATTS	NOTE 1
EM	EMERGENCY WALL PACK - W/ 90 MIN. BACKUP	SURE LITES SEL-50	3	
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R4-EM	4 INCH 1500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS AND 4LBCSSQ TRIM WITH MMS FINISH	COOPER LIGHTING SOLUTIONS - PORTFOLIO (FORMER EATON), LD4C15D010 EX4C159030 4LBCSSQMMS	15.8	FIXTURE PROVIDED WITH REMOTE BATTERY FOR EMERGENCY ILLUMINATION
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SM54	54" DECORATIVE FIRST FLOOR ELEVATOR LOBBY	LIUMENS CELESTE EPOC FLUSHOMOUNT, DIMMABLE, CHROME LUCID	140	
ST1-48	4' UTILITY STRIP FIXTURE	METALUX 4SNLED-LD5-48SL-UNV	19.3	
ST1-48-NL	4' UTILITY STRIP FIXTURE	METALUX 4SNLED-LD5-48SL-UNV	19.3	
W1-EM/NL	4' DECORATIVE CEILING MOUNTED STRIP FIXTURE	METALUX WP 4WP304OR	34.5	PROVIDE FIXTURE WITH BATTERY BACKUP FOR EMERGENCY ILLULMINATION
WM1-NL	UNIT ENTRY SCONCE (76" A.F.F.)	LIGHTOLOGY GLASS UP DOWN SLIM WALL SCONCE	8	
WM5	NOM. 6" DIAM, GAMMA INDIRECT/DIRECT CYLINDER	SPECTRUM LIGHTING, CW06XXUDPC 40LNDCL 40LNDCL 35XX XXMW (IND/DIR WET LOCATION)	54.8	

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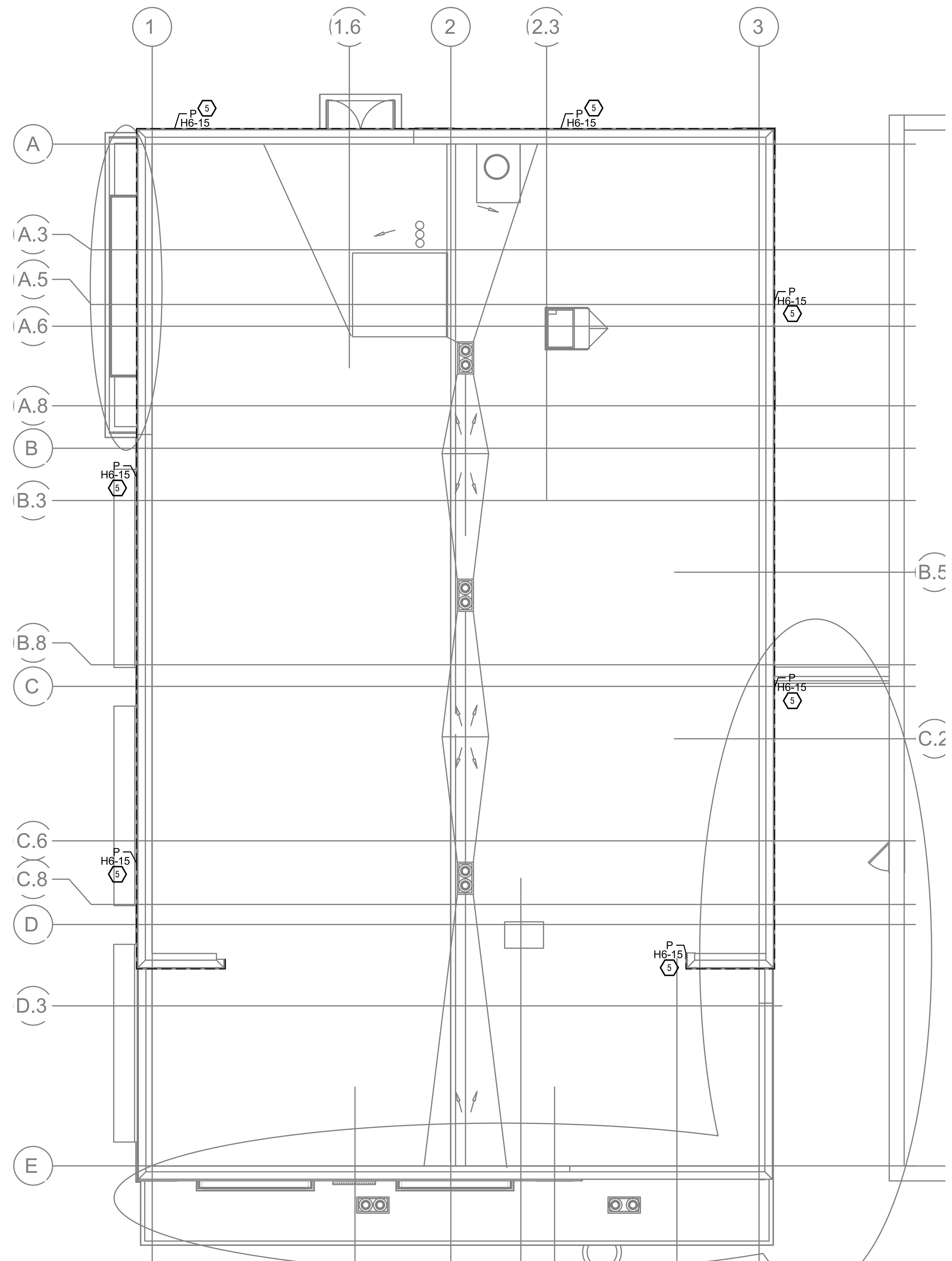

N

1 / E-203 ELECTRICAL LIGHTING ROOF PLAN

SCALE: 1/8" = 1'-0"

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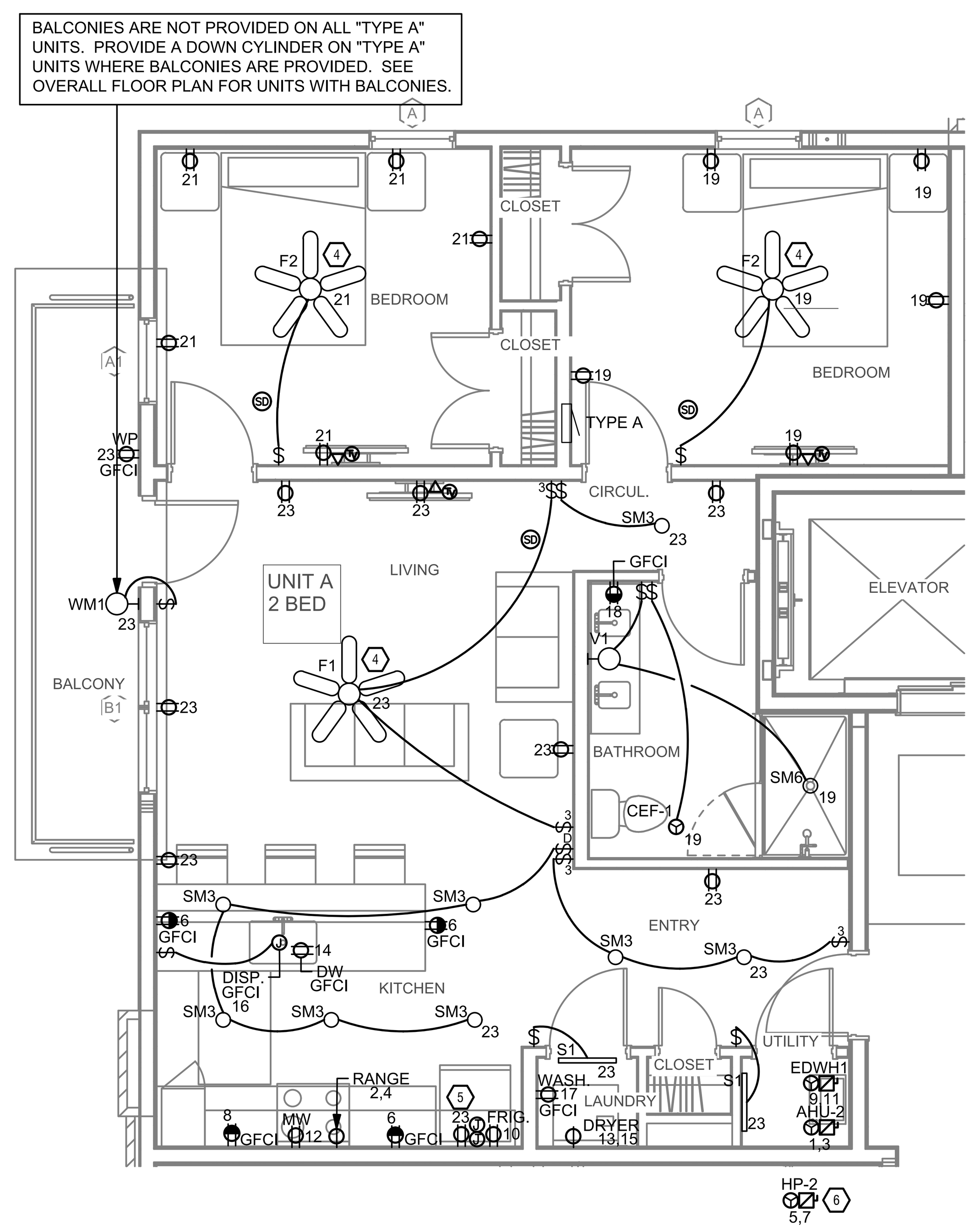
NEW CONSTRUCTION
Columbia St., Indiana

REVISION		
No.	Date	Revision

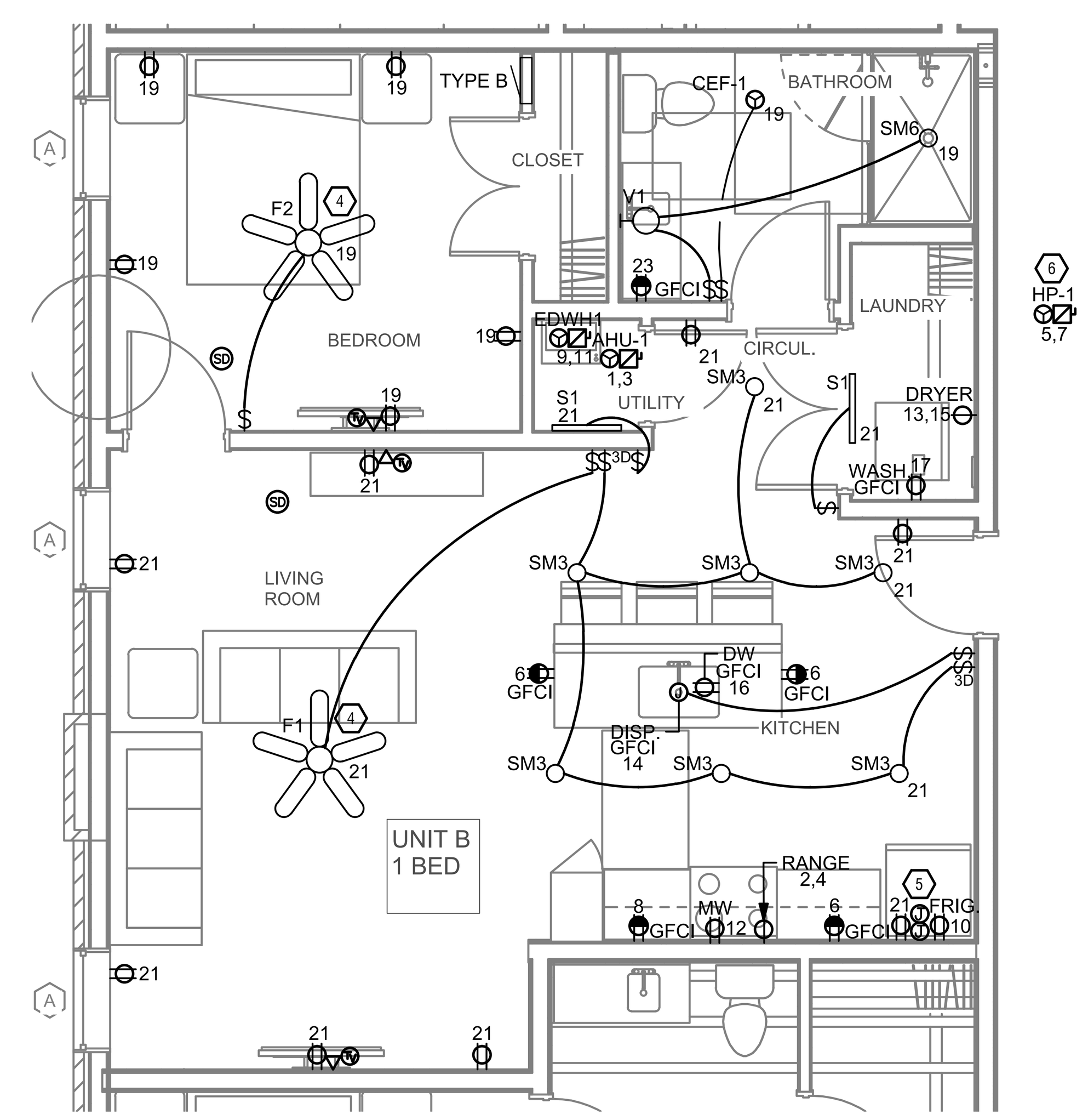
DRAWING CONTENTS:
ELECTRICAL LIGHTING ROOF PLAN

ISSUE DATE:	PROJECT NO.
09-03-24	10665

DRAWING NO.
E-203



1 E-300 UNIT A
SCALE: 1/4" = 1'-0"



2 E-300 UNIT B
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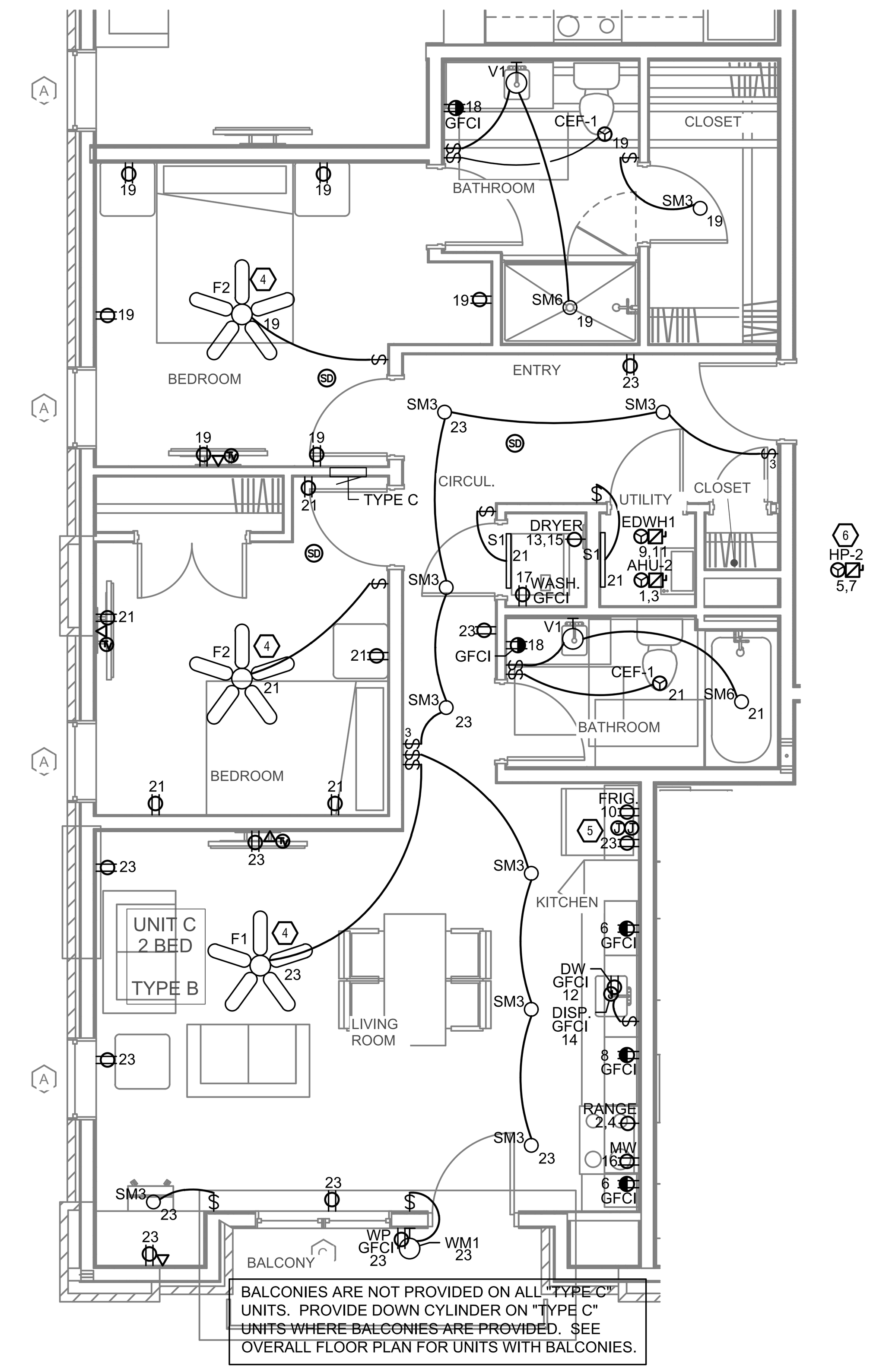

3 E-300 UNIT C
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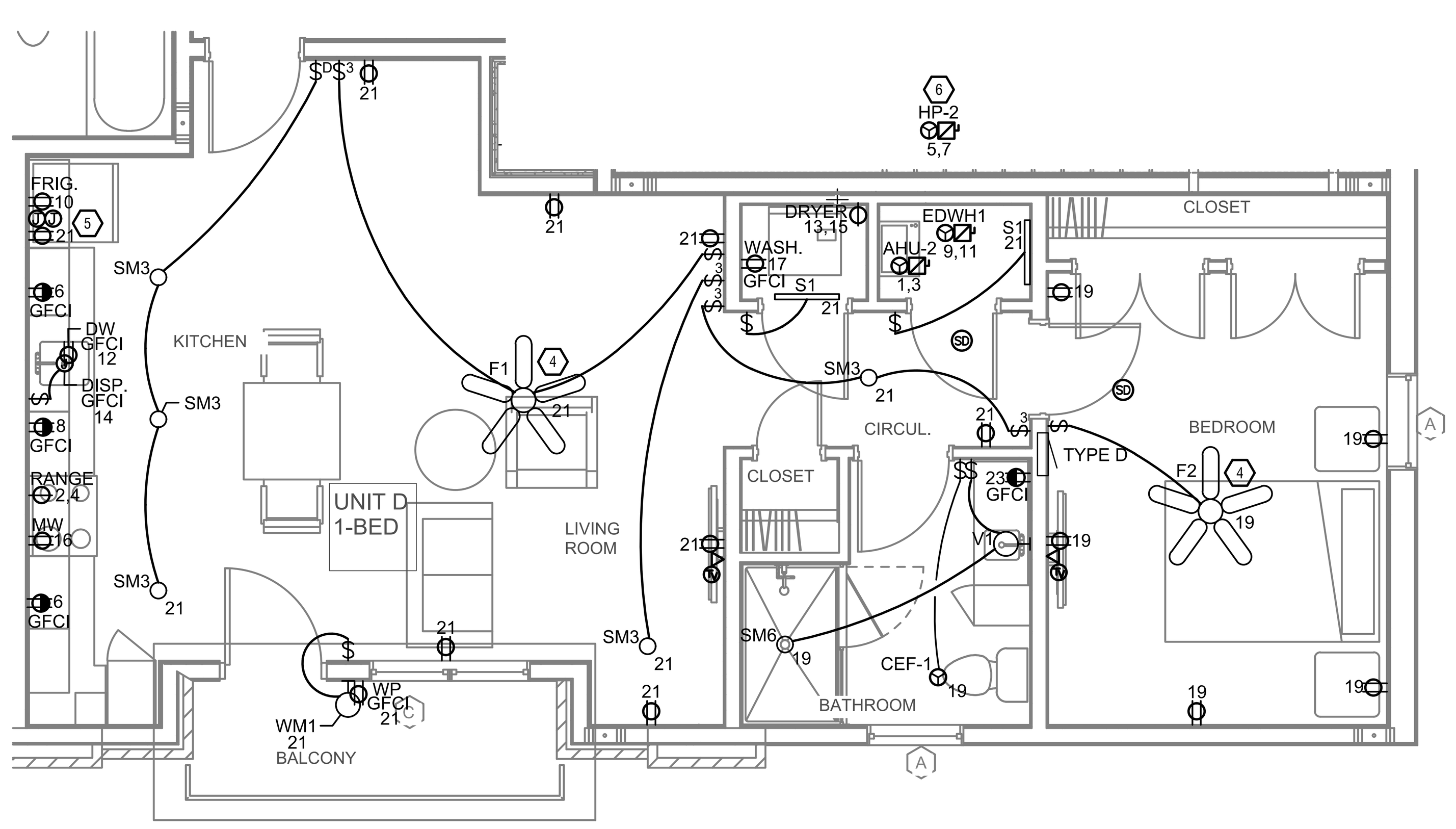
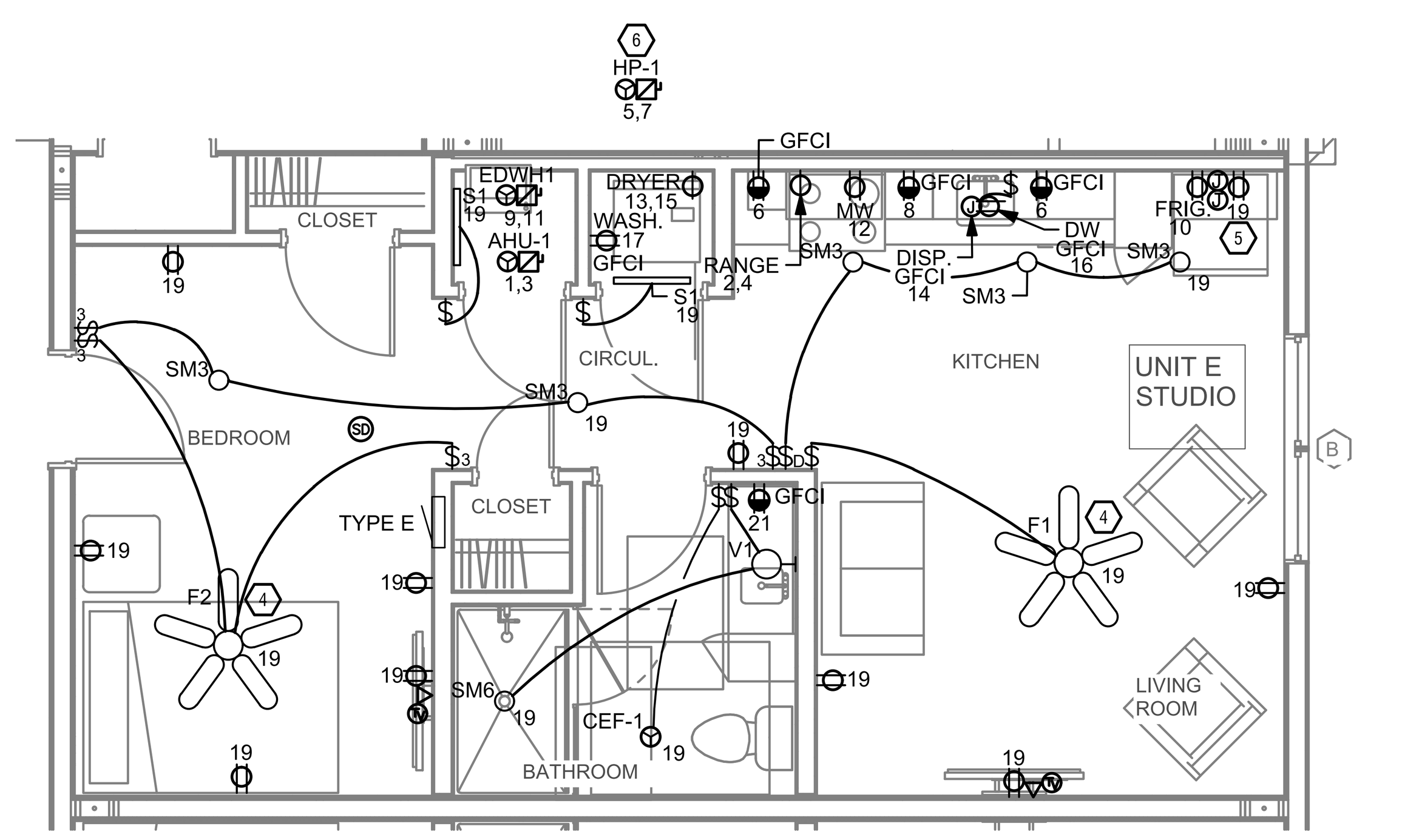
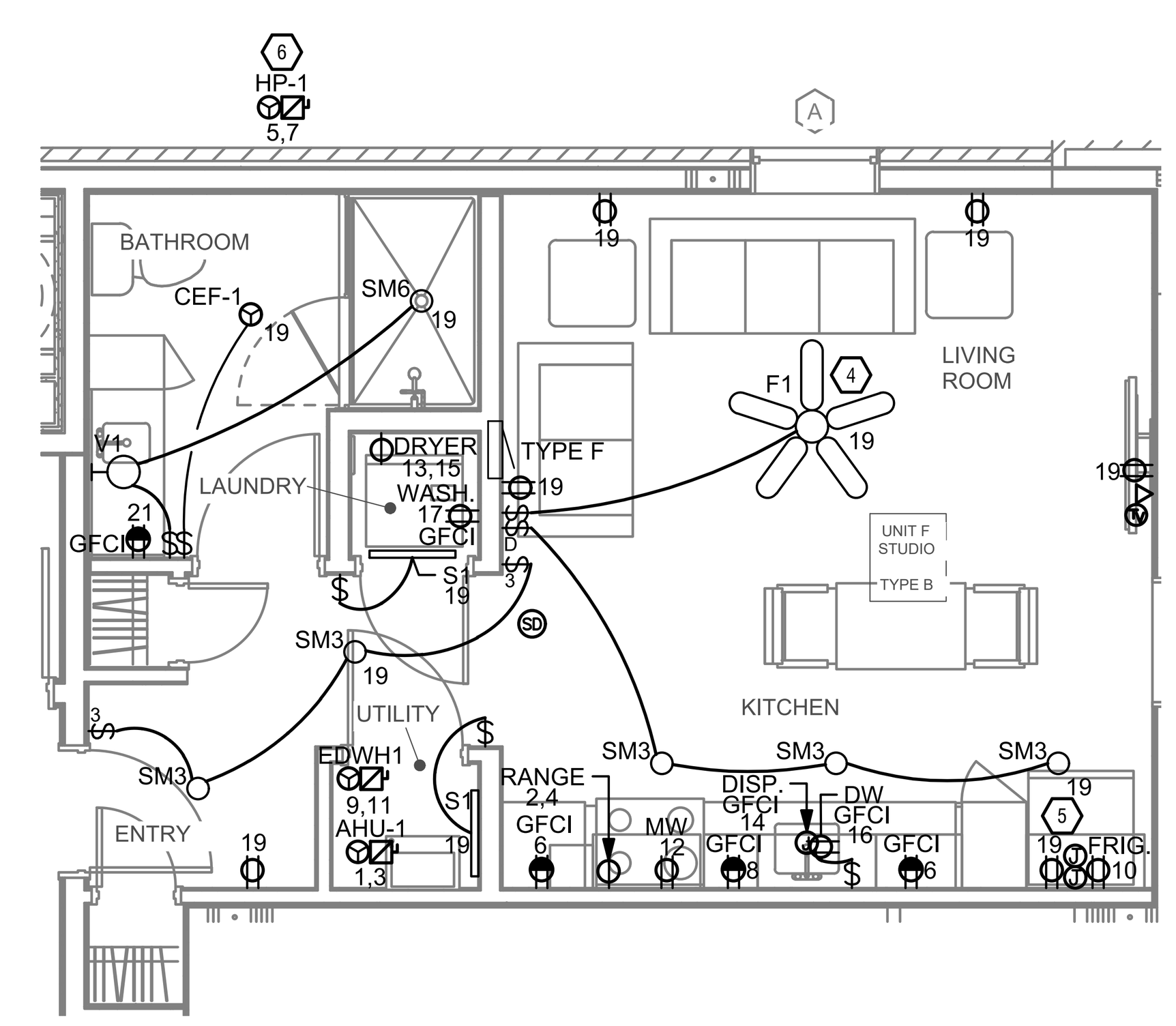


4 E-300 UNIT D
SCALE: 1/4" = 1'-0"



5 E-300 UNIT E
SCALE: 1/4" = 1'-0"



6 E-300 UNIT F
SCALE: 1/4" = 1'-0"

DWELLING UNIT LIGHT FIXTURES LUMINAIRE SCHEDULE

CALLOUT	DESCRIPTION	MODEL 1
F1	52" CEILING FAN W/ LED LIGHT	HUNTER 50380
F2	36" CEILING FAN W/ LED LIGHT	HUNTER 59303
S1	WALL MOUNTED LED STRIP LIGHT (ABOVE CLOSET DOOR)	TBD
SM3	6" ROUND SURFACE MOUNT LED DOWNLIGHT	HALO SMD6R-12-930-WH
SM6	4" ROUND SURFACE MOUNT LED DOWNLIGHT (WET LISTED)	HALO JBD4079FS1EWH
V1	VANITY FIXTURE	EFFICIENT LIGHTING EL228L-25LEDAC-BN
WM1	4.75" WALLMOUNT DOWN CYLINDER	EFFICIENT LIGHTING EL1080-9LED-BR

SCOPE OF WORK

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GENERAL NOTES - POWER

A. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL CONDUIT/CABLE ROUTING. COORDINATE ROUTING WITH ALL OTHER TRADES AND BUILDING CONDITIONS.

B. SEE SINGLE LINE DIAGRAM FOR FEEDER WIRE AND CONDUIT SIZE. ALL CIRCUITS NOT SIZED ON DRAWING SHALL BE INSTALLED TO MEET MINIMUM SIZE REQUIRED BY NEC.

C. PROVIDE MOTOR STARTERS FOR EQUIPMENT AS INDICATED ON DRAWINGS. COORDINATE ANY INTERLOCKING WIRING WITH HVAC CONTRACTOR AND PROVIDE WIRING, COILS, AND AUXILIARY CONTACTS AS NECESSARY. SIZE ALL CIRCUITS FOR ACTUAL EQUIPMENT TO BE CONNECTED.

D. ALL PANELS AND DISCONNECTS LOCATED OUTDOORS SHALL BE LABELED NEMA 3R.

E. ROOF MOUNTED AND OUTDOOR EQUIPMENT SHALL HAVE 120V RECEPTACLE MOUNTED WITHIN 25' OF EACH PIECE. RECEPTACLES SHALL BE IN WEATHER PROOF BOX AND HAVE GFCI PROTECTION.

F. FOR ITEMS FURNISHED BY OTHER TRADES, ELECTRICAL CONTRACTOR TO FULLY COORDINATE BREAKER AND WIRE SIZES WITH ACTUAL EQUIPMENT BEING CONNECTED PRIOR TO ROUGH-IN, OR INSTALLATION. THE SIZES ON PANEL SCHEDULES REFER TO BASIS OF DESIGN SELECTIONS, AND ACTUAL ITEMS MAY DEVIATE FROM BASIS OF DESIGN. IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO CONFIRM REQUIRED WIRE AND BREAKER SIZES WITH THE CONTRACTOR FURNISHING THE EQUIPMENT.

G. REFER TO ARCHITECT'S PLANS AND ELEVATIONS FOR ALL DEVICE MOUNTING HEIGHTS.

H. CONTRACTOR TO PROVIDE GROUNDING AND BONDING AS REQUIRED FOR ELECTRICAL SYSTEMS. GROUNDING AND BONDING IS CONSIDERED MEANS AND METHODS OF CONSTRUCTION, AND SHOULD BE COMPLETED BY THE ELECTRICAL CONTRACTOR IN ACCORDANCE WITH NEC 250. GAS PIPING SYSTEMS MUST BE BONDED PER UTILITY PROVIDER'S INSTALLATION GUIDELINES WHERE REQUIRED.

I. GFCI DEVICES MUST BE INSTALLED IN ACCESSIBLE LOCATIONS AND NOT PLACED BEHIND EQUIPMENT.

GENERAL NOTES - DWELLING UNITS

A. PROVIDE AFCI PROTECTION IN ACCORDANCE WITH NEC 210.12. AFCI PROTECTION MUST BE PROVIDED WHERE EXISTING BRANCH CIRCUIT WIRING IS MODIFIED, OR RECEPTACLES ARE REPLACED, IN ACCORDANCE WITH NEC AND LOCAL ELECTRICAL INSPECTION REQUIREMENTS. REFER TO NEC 406.4 (D) AND NEC 210.12 (D)

B. FURNISH AND INSTALL SMOKE DETECTORS AS REQUIRED BY CODE. SMOKE DETECTORS SHOWN ON EBS DRAWINGS ARE INTENDED TO CONVEY GENERAL COMPLIANCE FOR BUILDING DEPARTMENT SUBMITTALS. PROVIDE INTERWIRING BETWEEN SMOKE DETECTORS LOCATED IN THE SAME UNIT. SMOKE DETECTORS SHALL BE HARD WIRED WITH BATTERY BACK-UP. FIRE ALARM AND/OR SMOKE DETECTOR SYSTEMS ARE FURNISHED ON A DESIGN-BUILD BASIS BY THE ELECTRICIAN.

C. THE INTENT OF DRAWINGS SHOWING SMOKE ALARM LOCATIONS IS TO DEMONSTRATE GENERAL CONFORMANCE WITH APPLICABLE CODES. ELECTRICAL CONTRACTOR TO COORDINATE FINAL PLACEMENT OF SMOKE ALARMS WITH ACTUAL CEILING CONFIGURATION, CEILING FAN LOCATIONS, DISTANCE TO BATHROOMS, DISTANCE TO COOKING APPLIANCES, ETC. AND INSTALL PER THE REQUIREMENTS OF APPLICABLE CODES.

D. WHERE CIRCUITING IS SHOWN TYPICAL FOR MULTIPLE UNITS, COORDINATE BREAKER/WIRE SIZES FOR EQUIPMENT FURNISHED BY OTHERS WITH SHOP DRAWINGS PROVIDED BY THE CONTRACTOR SUPPLYING THE EQUIPMENT. VERIFY BREAKER/WIRE SIZES FOR EQUIPMENT OR APPLIANCE FOR EACH UNIT PRIOR TO ROUGH-IN.

E. SEE ARCHITECTURAL REFLECTED CEILING PLANS FOR DIMENSIONED LOCATIONS OF ALL LIGHT FIXTURES.

F. PROVIDE CONDUIT AND PULL STRING TO APPROVED LOCATION FOR VOICE, DATA, AND CATV CABLES.

G. CIRCUITING ON DRAWINGS AND PANEL SCHEDULE IS SHOWN TYPICAL FOR SIMILAR UNITS. REFER TO DWELLING UNIT LOAD SUMMARIES FOR INDIVIDUAL DWELLING UNIT LOAD CALCULATIONS

H. COORDINATE RECEPTACLE, PHONE, AND TV DEVICE PLACEMENT WITH FURNITURE LOCATIONS. VERIFY WITH ARCHITECT PRIOR TO ROUGH IN. LOCATIONS SHOWN ON DRAWINGS ARE INTENDED TO CONVEY DESIGN INTENT, AND DEMONSTRATE GENERAL COMPLIANCE WITH CODE. WHERE ACTUAL STUD LOCATIONS REQUIRE DEVICE LOCATIONS TO BE ADJUSTED, ADDED OR MINOR VARIATIONS AMONG UNITS THAT ARE SHOWN AS "TYPICAL", ETC. OCCUR, CONTRACTOR, UNDER HIS BASE BID, TO MAKE NECESSARY ADJUSTMENTS / ADDITIONS IN THE FIELD TO MAINTAIN NEC DWELLING UNIT RECEPTACLE SPACING REQUIREMENTS. WHERE ACTUAL WINDOW CONSTRUCTION PROHIBITS THE INSTALLATION OF A WALL RECEPTACLE, PROVIDE FLOOR RECEPTACLE WITHIN 18 INCHES OF THE BASE OF THE WALL. PROVIDE TAMPER PROOF RECEPTACLES AS REQUIRED BY NEC ART. 406.12.

I. LIGHTING INSTALLED IN CLOTHES CLOSETS SHALL BE INSTALLED IN ACCORDANCE WITH NEC 410.16.

J. GFCI/AFCI DEVICES MUST BE INSTALLED IN ACCESSIBLE LOCATIONS AND NOT PLACED BEHIND EQUIPMENT.

GENERAL NOTES - LIGHTING

A. REFER TO ARCHITECT'S PLANS AND ELEVATIONS FOR DIMENSIONED LOCATIONS OF LIGHT FIXTURES.

B. PROVIDE HOLD-ON-TYPE BREAKERS FOR EGRESS/EMERGENCY LIGHTING CIRCUITS. WIRE ALL EGRESS/EMERGENCY FIXTURES AHEAD OF ANY LOCAL SWITCHING.

C. LIGHT FIXTURES CONTROLLED BY SWITCH IN SAME ROOM UNLESS OTHERWISE NOTED.

D. WHERE DIMMERS AND/OR DIMMING SYSTEMS ARE REQUIRED, CONTRACTOR TO FURNISH DIMMERS THAT ARE COMPATIBLE WITH FIXTURE SOURCE AND RATED FOR THE WATTAGE OF THE DIMMING ZONE. PROVIDE ADDITIONAL DIMMERS AS REQUIRED TO MEET ZONE LOAD REQUIREMENTS.

(#) KEYED SHEET NOTES - TYPICALS

1. SENSORY ITEMS ONLY NEED TO BE INSTALLED IN UNIT 207. ALL OTHER UNITS ARE TO BE INSTALLED WITHOUT THESE ITEMS.
2. INSTALL HARDWIRED DOORBELL.
   - 2.1. THE NOTIFIER INSIDE THE UNIT SHALL BE BOTH AUDIBLE AND VISUAL. AUDIBLE DEVICES SHALL BE EQUIPPED WITH VOLUME CONTROLS.
   - 2.2. THE NOTIFIER INSIDE THE BEDROOM AND BATHROOM SHALL BE VISUAL DEVICES ONLY. SECONDARY DEVICE LOCATIONS ARE PERMITTED TO BE WIRELESS. WHERE VISIBLE DOORBELL SIGNALS ARE LOCATED IN THE SLEEPING AREAS, THEY SHALL HAVE CONTROLS TO DEACTIVATE THE SIGNAL.
3. PROVIDE AUDIBLE AND VISUAL SMOKE DETECTOR DEVICES.
4. EC TO PROVIDE 3 WIRES TO FAN AND FAN BOX FOR FUTURE SECOND SWITCH, COORDINATE LOCATION WITH GC PRIOR TO ROUGH IN.
5. RECEPTACLE AND J-BOXES SHOWN SERVE APT UNIT LO-VOLT DEMARC. BASE BID SCOPE TO INCLUDE MODEL APPROVED HOMERUN CABLING FROM IDF ROOMS TO ABOVE FRIDGE UNIT DEMARC, FROM UNIT DEMARC TO DEVICE LOCATIONS, AND TO PROVIDE ALL DEVICES AND MAKE TERMINATIONS. EC TO PROVIDE DEDUCT PRICING FOR A LO-VOLT DEMARC BOX ONLY ASSUMING THE UTILITY PROVIDES AND INSTALLS ALL CABLING, DEVICES, AND MAKES TERMINATIONS.
6. REFER TO SHEET E103 FOR MECHANICAL UNIT LOCATIONS.
7. RANGE HOOD CONTROL AND GENERAL RECEPTACLE TO BE MOUNTED IN A FIXED DRAWER FRONT ON BASE CABINET ADJACENT TO STOVE.

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Key Plan:

PR - 10665

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THE LANDING 3.0

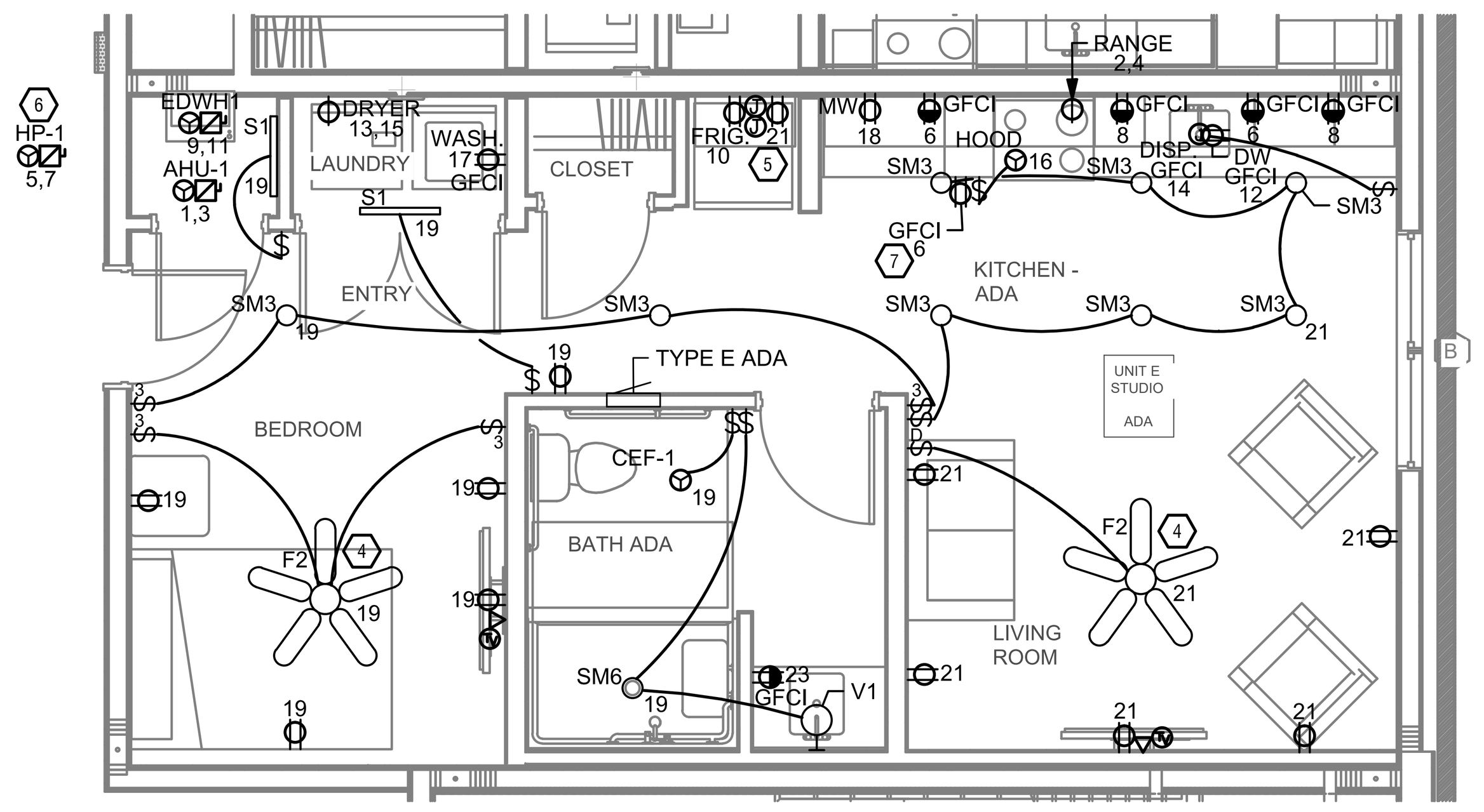
NEW CONSTRUCTION
Columbia St., Indiana

REVISION		
No.	Date	Revision

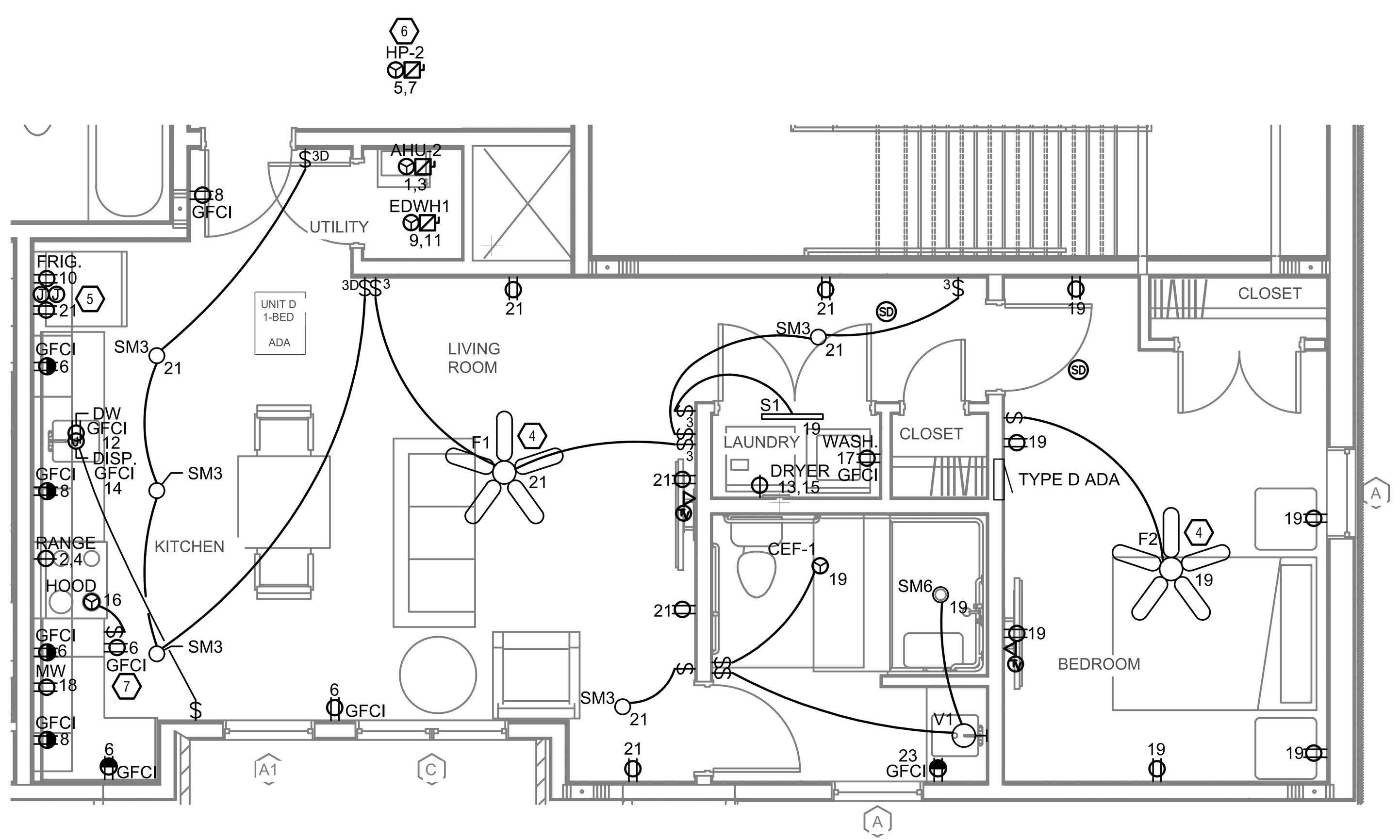
DRAWING CONTENTS:
ELECTRICAL ENLARGED PLANS

ISSUE DATE: 09-03-24
PROJECT NO. 10665

DRAWING NO.
E-300



2 / E-301
UNIT E ADA
SCALE: 1/4" = 1'-0"



1 / E-301
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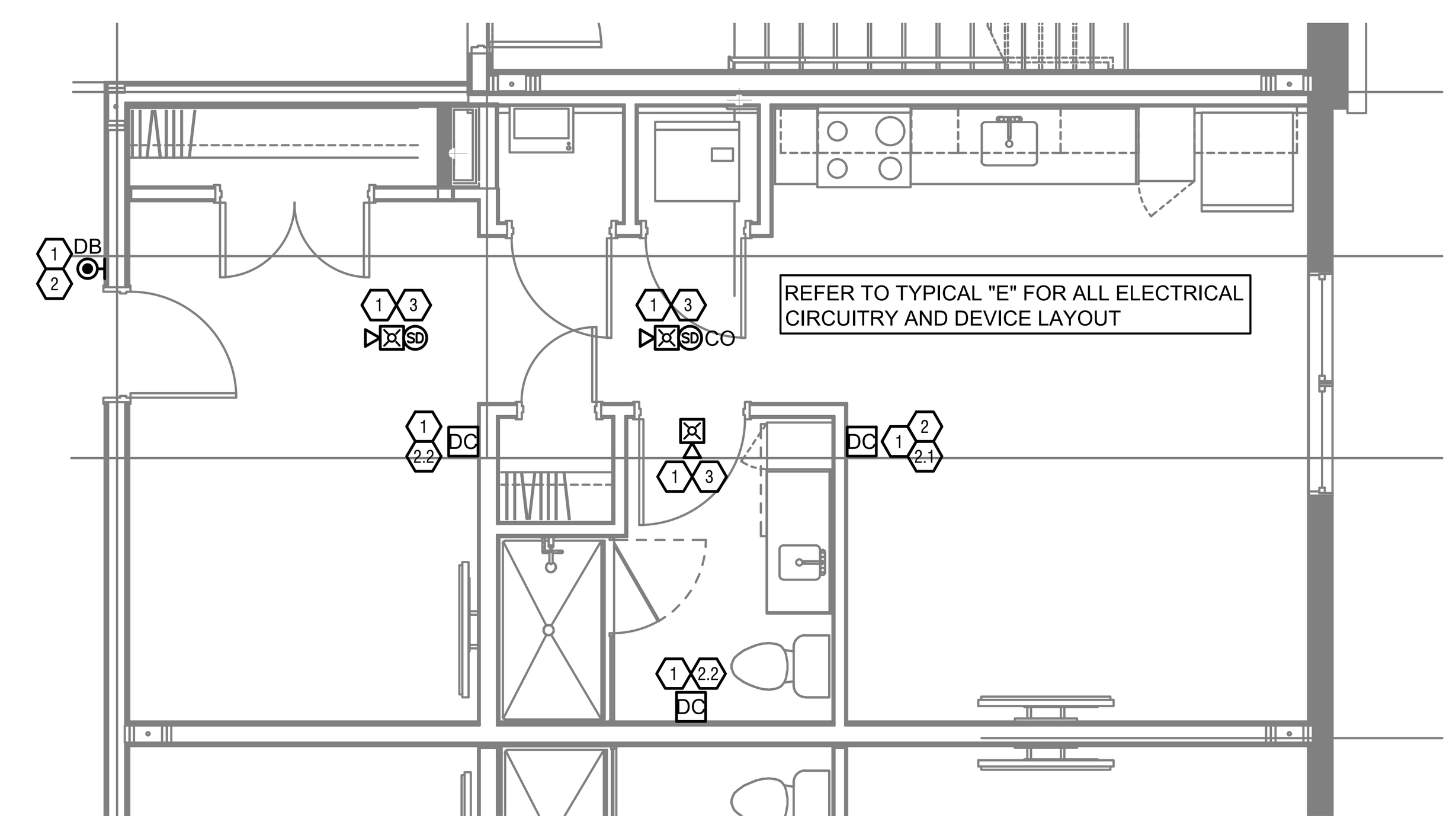

3 / E-301
SENSORY UNIT (207)
SCALE: 1/4" = 1'-0"

DWELLING UNIT LIGHT FIXTURES LUMINAIRE SCHEDULE

CALLOUT	DESCRIPTION	MODEL 1
F1	52" CEILING FAN W/ LED LIGHT	HUNTER 50380
F2	36" CEILING FAN W/ LED LIGHT	HUNTER 59303
S1	WALL MOUNTED LED STRIP LIGHT (ABOVE CLOSET DOOR)	TBD
SM3	6" ROUND SURFACE MOUNT LED DOWNLIGHT	HALO SMD6R-12-930-WH
SM6	4" ROUND SURFACE MOUNT LED DOWNLIGHT (WET LISTED)	HALO JBD4079FS1EWH
V1	VANITY FIXTURE	EFFICIENT LIGHTING EL228L-25LEDAC-BN
WM1	4.75" WALLMOUNT DOWN CYLINDER	EFFICIENT LIGHTING EL1080-9LED-BR

SCOPE OF WORK

NEW CONSTRUCTION OF A SIX FLOOR MULTI USE BUILDING. FIRST FLOOR INCLUDES SHELL FOR FUTURE COMMERCIAL TENANT SPACES. FLOORS TWO THROUGH SIX ARE FOR RESIDENTIAL TENANTS. SCOPE OF WORK INCLUDES NEW DEVICES, LIGHTING, AND BRANCH CIRCUIT WIRING. SEE SINGLE LINE DIAGRAM, PANEL SCHEDULES, AND DETAILS SHEETS FOR MORE INFORMATION.

GENERAL NOTES - OVERALL PROJECT

A. EBS DRAWINGS INDICATE DESIGN INTENT AND REQUIRED OUTCOMES. IF CONDITIONS ARISE IN THE FIELD THAT REQUIRE DEVIATIONS FROM THE DRAWINGS IT IS ASSUMED THAT THE CONTRACTOR WILL DETERMINE THE APPROPRIATE DEVIATION WITH APPROVAL FROM THE OWNER. EBS IS AVAILABLE TO ASSIST WHEN REQUIRED IF ISSUES ARISE.

GENERAL NOTES - POWER

A. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL CONDUIT/CABLE ROUTING. COORDINATE ROUTING WITH ALL OTHER TRADES AND BUILDING CONDITIONS.

B. SEE SINGLE LINE DIAGRAM FOR FEEDER WIRE AND CONDUIT SIZE. ALL CIRCUITS NOT SIZED ON DRAWING SHALL BE INSTALLED TO MEET MINIMUM SIZE REQUIRED BY NEC.

C. PROVIDE MOTOR STARTERS FOR EQUIPMENT AS INDICATED ON DRAWINGS. COORDINATE ANY INTERLOCKING WIRING WITH HVAC CONTRACTOR AND PROVIDE WIRING, COILS, AND AUXILIARY CONTACTS AS NECESSARY. SIZE ALL CIRCUITS FOR ACTUAL EQUIPMENT TO BE CONNECTED.

D. ALL PANELS AND DISCONNECTS LOCATED OUTDOORS SHALL BE LABELED NEMA 3R.

E. ROOF MOUNTED AND OUTDOOR EQUIPMENT SHALL HAVE 120V RECEPTACLE MOUNTED WITHIN 25' OF EACH PIECE. RECEPTACLES SHALL BE IN WEATHER PROOF BOX AND HAVE GFCI PROTECTION.

F. FOR ITEMS FURNISHED BY OTHER TRADES, ELECTRICAL CONTRACTOR TO FULLY COORDINATE BREAKER AND WIRE SIZES WITH ACTUAL EQUIPMENT BEING CONNECTED PRIOR TO ROUGH-IN, OR INSTALLATION. THE SIZES ON PANEL SCHEDULES REFER TO BASIS OF DESIGN SELECTIONS, AND ACTUAL ITEMS MAY DEVIATE FROM BASIS OF DESIGN. IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO CONFIRM REQUIRED WIRE AND BREAKER SIZES WITH THE CONTRACTOR FURNISHING THE EQUIPMENT.

G. REFER TO ARCHITECT'S PLANS AND ELEVATIONS FOR ALL DEVICE MOUNTING HEIGHTS.

H. CONTRACTOR TO PROVIDE GROUNDING AND BONDING AS REQUIRED FOR ELECTRICAL SYSTEMS. GROUNDING AND BONDING IS CONSIDERED MEANS AND METHODS OF CONSTRUCTION, AND SHOULD BE COMPLETED BY THE ELECTRICAL CONTRACTOR IN ACCORDANCE WITH NEC 250. GAS PIPING SYSTEMS MUST BE BONDED PER UTILITY PROVIDER'S INSTALLATION GUIDELINES WHERE REQUIRED.

I. GFCI DEVICES MUST BE INSTALLED IN ACCESSIBLE LOCATIONS AND NOT PLACED BEHIND EQUIPMENT.

GENERAL NOTES - DWELLING UNITS

A. PROVIDE AFCI PROTECTION IN ACCORDANCE WITH NEC 210.12. AFCI PROTECTION MUST BE PROVIDED WHERE EXISTING BRANCH CIRCUIT WIRING IS MODIFIED, OR RECEPTACLES ARE REPLACED, IN ACCORDANCE WITH NEC AND LOCAL ELECTRICAL INSPECTION REQUIREMENTS. REFER TO NEC 406.4 (D) AND NEC 210.12 (D)

B. FURNISH AND INSTALL SMOKE DETECTORS AS REQUIRED BY CODE. SMOKE DETECTORS SHOWN ON EBS DRAWINGS ARE INTENDED TO CONVEY GENERAL COMPLIANCE FOR BUILDING DEPARTMENT SUBMITTALS. PROVIDE INTERWIRING BETWEEN SMOKE DETECTORS LOCATED IN THE SAME UNIT. SMOKE DETECTORS SHALL BE HARD WIRED WITH BATTERY BACK-UP. FIRE ALARM AND/OR SMOKE DETECTOR SYSTEMS ARE FURNISHED ON A DESIGN-BUILD BASIS BY THE ELECTRICIAN.

C. THE INTENT OF DRAWINGS SHOWING SMOKE ALARM LOCATIONS IS TO DEMONSTRATE GENERAL CONFORMANCE WITH APPLICABLE CODES. ELECTRICAL CONTRACTOR TO COORDINATE FINAL PLACEMENT OF SMOKE ALARMS WITH ACTUAL CEILING CONFIGURATION, CEILING FAN LOCATIONS, DISTANCE TO BATHROOMS, DISTANCE TO COOKING APPLIANCES, ETC. AND INSTALL PER THE REQUIREMENTS OF APPLICABLE CODES.

D. WHERE CIRCUITING IS SHOWN TYPICAL FOR MULTIPLE UNITS, COORDINATE BREAKER/WIRE SIZES FOR EQUIPMENT FURNISHED BY OTHERS WITH SHOP DRAWINGS PROVIDED BY THE CONTRACTOR SUPPLYING THE EQUIPMENT. VERIFY BREAKER/WIRE SIZES FOR EQUIPMENT OR APPLIANCE FOR EACH UNIT PRIOR TO ROUGH-IN.

E. SEE ARCHITECTURAL REFLECTED CEILING PLANS FOR DIMENSIONED LOCATIONS OF ALL LIGHT FIXTURES.

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ELECTRICAL ENLARGED PLANS

ISSUE DATE:	PROJECT NO:
09-03-24	10665

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E-301

SCOPE OF WORK

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GENERAL NOTES-SINGLE LINE DIAGRAM

A. ALL BREAKERS SHALL BE RATED TO WITHSTAND THE AVAILABLE FAULT CURRENT AT THEIR LOCATION. WHERE SERIES- RATED COMBINATIONS ARE USED IN ACCORDANCE WITH NEC 240.86 (B) AND (C) THE CONTRACTOR AND/OR HIS EQUIPMENT SUPPLIER MUST PROVIDE APPROPRIATE DOCUMENTATION AND LABELING.

B. WHERE BREAKERS WITH ADJUSTABLE SETTINGS ARE FURNISHED TO THE PROJECT. THE MANUFACTURER'S REP SHALL IDENTIFY AND PROVIDE THE APPROPRIATE SETTINGS TO THE ELECTRICAL CONTRACTOR FOR HIS USE IN INSTALLATION.

C. PANEL SCHEDULES INDICATE BREAKER SIZE ONLY. PROVIDE AFCI/GFCI PROTECTION AS REQUIRED BY NEC. COORDINATE FINAL BREAKER SIZES/TYPES FOR ITEMS FURNISHED BY OTHERS WITH SHOP DRAWINGS OR PRODUCT INFORMATION FOR ACTUAL EQUIPMENT BEING CONNECTED

D. ELECTRICAL CONTRACTOR SHALL NOT ORDER OR PURCHASE ANY MATERIALS OR EQUIPMENT UNTIL PERMIT DRAWINGS HAVE BEEN APPROVED BY AHJ.

E. PROVIDE SELECTIVE COORDINATION FOR EMERGENCY SYSTEM OVERCURRENT PROTECTION DEVICES IN ACCORDANCE WITH NEC 700.27.

F. PROVIDE GROUND-FAULT PROTECTION FOR EQUIPMENT IN ACCORDANCE WITH NEC 240.13 AND NEC 230.95.

G. OVERCURRENT PROTECTION DEVICES SUPPLYING TRANSFORMERS WHICH ARE NOT LOCATED WITHIN SIGHT OF THEIR OVERCURRENT PROTECTION SHALL BE LOCKABLE AND THE TRANSFORMER SHALL BE FIELD MARKED WITH THE LOCATION OF THE OVERCURRENT PROTECTION DEVICE.

H. CONTRACTOR TO PROVIDE GROUNDING AND BONDING AS REQUIRED FOR ELECTRICAL SYSTEMS. GROUNDING AND BONDING IS CONSIDERED MEANS AND METHODS OF CONSTRUCTION, AND SHOULD BE COMPLETED BY THE ELECTRICAL CONTRACTOR IN ACCORDANCE WITH NEC 250. GAS PIPING SYSTEMS MUST BE BONDED PER UTILITY PROVIDER'S INSTALLATION GUIDELINES WHERE REQUIRED.

ELEVATOR VARIANCE

THIS PROJECT IS SEEKING A VARIANCE TO ELIMINATE A GENERATOR AS A BACKUP POWER SUPPLY FOR THE ELEVATOR.

IT WAS BROUGHT TO OUR ATTENTION BY A THIRD PARTY CODE CONSULTANT THAT THE STATE OF INDIANA ROUTINELY GRANTS VARIANCES TO WAIVE THE REQUIREMENTS FOR STANDBY POWER (GENERATOR) FOR AN ELEVATOR IF THE ELEVATOR IS PROVIDED WITH BATTERY BACKUP TO TAKE THE ELEVATOR TO THE NEAREST LANDING IN THE EVENT OF A LOSS OF UTILITY POWER. ADDITIONALLY, A TRANSFER SWITCH WILL BE PROVIDED TO PERMIT CONNECTION TO A PORTABLE GENERATOR.

SEE KEYED NOTE #1 ON THIS SHEET FOR ADDITIONAL INFORMATION.

THE AHJ DEMONSTRATES AGREEANCE OF THIS APPROACH BY APPROVAL OF THESE DRAWINGS.

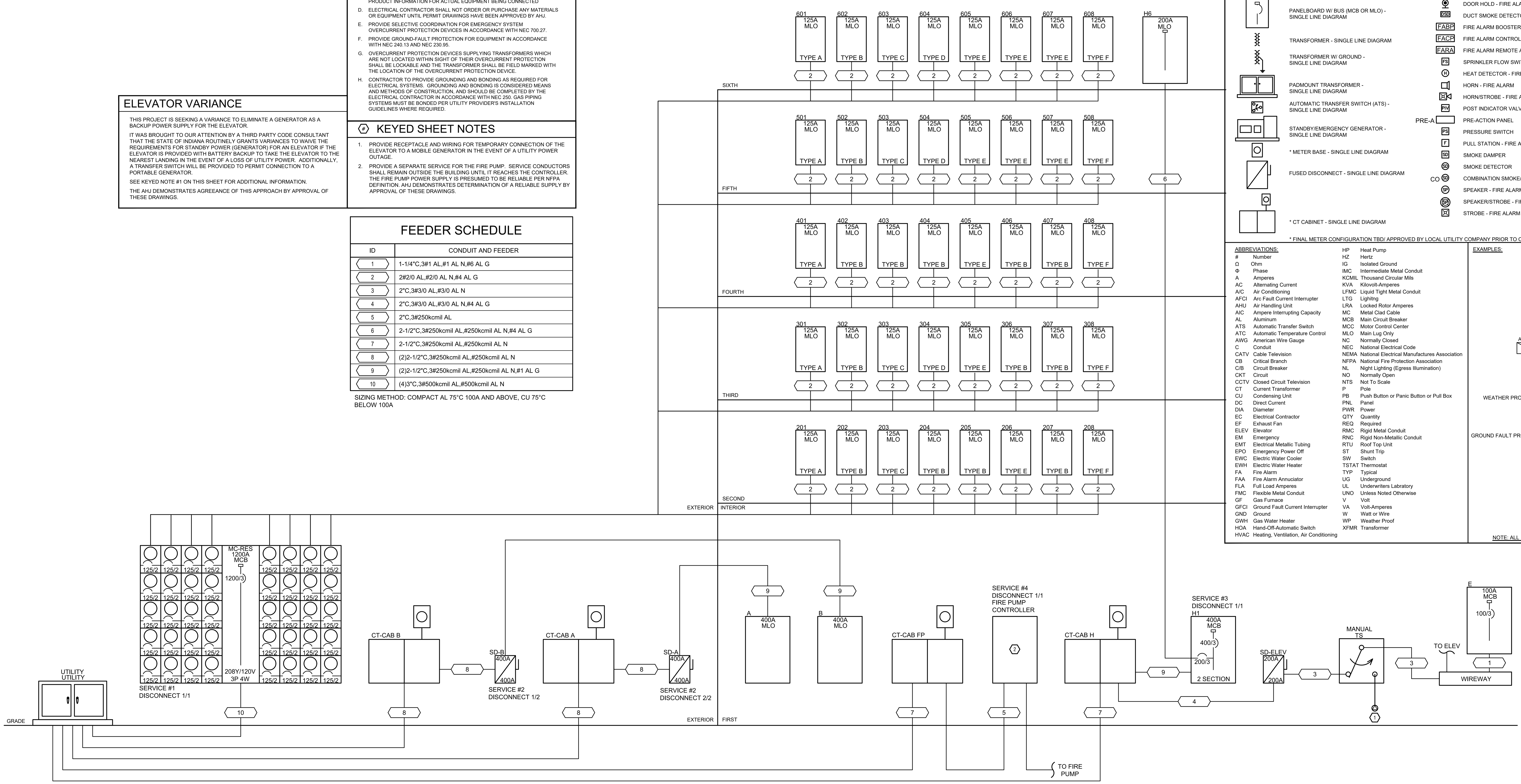
KEYED SHEET NOTES

1. PROVIDE RECEPTACLE AND WIRING FOR TEMPORARY CONNECTION OF THE ELEVATOR TO A MOBILE GENERATOR IN THE EVENT OF A UTILITY POWER OUTAGE.
2. PROVIDE A SEPARATE SERVICE FOR THE FIRE PUMP. SERVICE CONDUCTORS SHALL REMAIN OUTSIDE THE BUILDING UNTIL IT REACHES THE CONTROLLER. THE FIRE PUMP POWER SUPPLY IS PRESUMED TO BE RELIABLE PER NFPA DEFINITION. AHJ DEMONSTRATES DETERMINATION OF A RELIABLE SUPPLY BY APPROVAL OF THESE DRAWINGS.

FEEDER SCHEDULE

ID	CONDUIT AND FEEDER
1	1-1/4"C,3#1 AL,#1 AL N,#6 AL G
2	2#2/0 AL,#2/0 AL N,#4 AL G
3	2"C,3#3/0 AL,#3/0 AL N
4	2"C,3#3/0 AL,#3/0 AL N,#4 AL G
5	2"C,3#250kcmil AL
6	2-1/2"C,3#250kcmil AL,#250kcmil AL N,#4 AL G
7	2-1/2"C,3#250kcmil AL,#250kcmil AL N
8	(2)2-1/2"C,3#250kcmil AL,#250kcmil AL N
9	(2)2-1/2"C,3#250kcmil AL,#250kcmil AL N,#1 AL G
10	(4)3"C,3#500kcmil AL,#500kcmil AL N

SIZING METHOD: COMPACT AL 75°C 100A AND ABOVE, CU 75°C BELOW 100A



SINGLE LINE DIAGRAM

ELECTRICAL LEGEND

*SEE LIGHT FIXTURE SCHEDULE FOR FIXTURE TYPES.

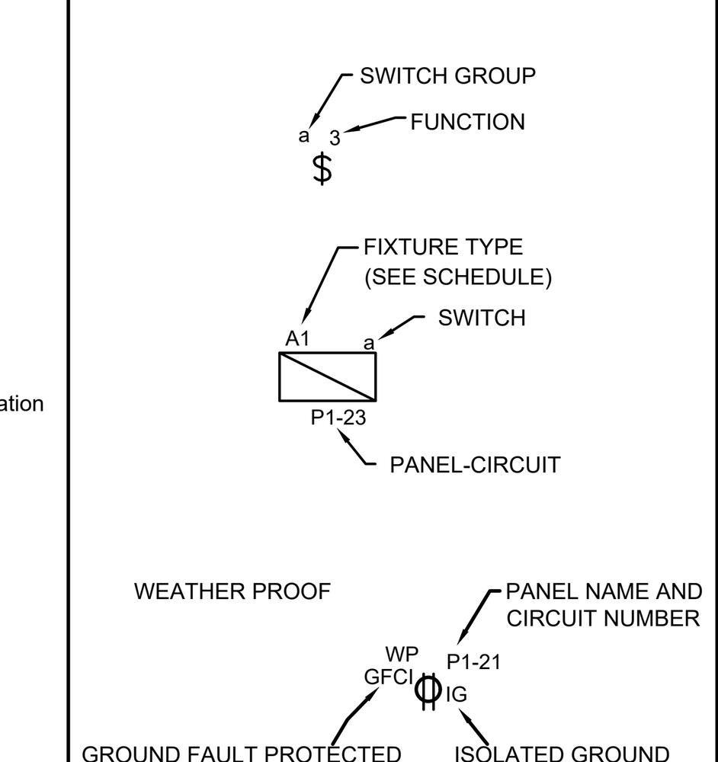
Symbol	Description	Symbol	Description
$	SINGLE POLE LIGHT SWITCH	L5-20R	LOCKING 125V/20 AMP - RECEPTACLE
$3	THREE WAY LIGHT SWITCH	L6-20R	LOCKING 250V/20 AMP (1-PHASE) - RECEPTACLE
$4	FOUR WAY LIGHT SWITCH	L5-30R	LOCKING 125V/30 AMP - RECEPTACLE
$D	DIMMER SWITCH	L6-30R	LOCKING 250V/20 AMP (1-PHASE) - RECEPTACLE
$FS	FAN SPEED CONTROL	PP	FURNITURE POWER POLE - RECEPTACLE
OS DT	OCC SENSOR - CEILING - DUAL TECHNOLOGY	RFF	FURNITURE RECESSED FLOOR FEED
OS PIR	OCC SENSOR - CEILING - PASSIVE INFRARED	WFF	FURNITURE WALL FEED
$DT	OCC SENSOR - WALL - DUAL TECHNOLOGY	FB	RECESSED FLOOR BOX - MULTI-SERVICE (POWER/DATA)
$PIR	OCC SENSOR - WALL - PASSIVE INFRARED	AV	RECESSED FLOOR BOX - MULTI-SERVICE W/AV
	OCC SENSOR POWER PACK	PT	RECESSED MULTI-SERVICE POKE THRU
	OCC SENSOR POWER PACK - 2 CKT		SPECIAL CONNECTION
	DUPLEX RECEPTACLE		SIMPLEX RECEPTACLE
USB	DUPLEX RECEPTACLE W/USB JACKS		EQUIPMENT CONNECTION
	COUNTER HEIGHT DUPLEX RECEPTACLE	$M	MANUAL MOTOR STARTER
	QUAD RECEPTACLE		NON-FUSED DISCONNECT
	COUNTER HEIGHT QUAD RECEPTACLE		FUSED DISCONNECT
(CLNG)	CEILING (SHOW WINDOW) RECEPTACLE		FUSED DISCONNECT W/MAGNETIC MOTOR STARTER
GFCI	DUPLEX RECEPTACLE WITH GFCI PROTECTION	J	JUNCTION BOX
GFCI	COUNTER HEIGHT DUPLEX RECEPTACLE WITH GFCI PROTECTION	HNE	HOME NETWORK ENCLOSURE
	SPLIT-WIRED (SWITCHED) RECEPTACLE		SECURITY CAMERA
WP GFCI	WEATHER PROOF RECEPTACLE WITH GFCI PROTECTION		DATA LOCATION (RING & STRING, U.N.O)
DW GFCI	DISHWASHER RECEPTACLE WITH GFCI PROTECTION		VOICE DROP - LOCATION
DISP.	GARBAGE DISPOSAL		VOICE/DATA DROP - LOCATION
MW	MICROWAVE RECEPTACLE	TV	CABLE TV (COAX) - LOCATION
FRIG	REFRIGERATOR RECEPTACLE	CR	CARD READER
RANGE	RANGE - 208-240V/ 1-PHASE 50 AMP RECEPTACLE	DR	DOOR RELEASE - ACCESS CONTROL
WASH GFCI	WASHER RECEPTACLE WITH GFCI PROTECTION	DS	DOOR STRIKE - ACCESS CONTROL
DRYER	DRYER - 208-240V/ 1-PHASE 30 AMP RECEPTACLE	ML	MAG-LOCK - ACCESS CONTROL
W/D	STACKED WASHER/DRYER - 208-240V/ 1-PHASE 30 AMP RECEPTACLE	PS	POSITION SWITCH
	DUPLEX - MONUMENT FLOOR BOX	PR	PROXY READER
	DUPLEX - RECESSED FLOOR BOX	RE	REQUEST TO EXIT SWITCH
	PANELBOARD	WAP	WIRELESS INTERNET ACCESS POINT
	PANELBOARD W/ BUS (MCB OR MLO) - SINGLE LINE DIAGRAM		DOOR HOLD - FIRE ALARM
	TRANSFORMER - SINGLE LINE DIAGRAM	DSD	DUCT SMOKE DETECTOR
	TRANSFORMER W/ GROUND - SINGLE LINE DIAGRAM	FABP	FIRE ALARM BOOSTER PANEL
	PADMOUNT TRANSFORMER - SINGLE LINE DIAGRAM	FACP	FIRE ALARM CONTROL PANEL
	AUTOMATIC TRANSFER SWITCH (ATS) - SINGLE LINE DIAGRAM	FARA	FIRE ALARM REMOTE ANNUNCIATOR
	STANDBY/EMERGENCY GENERATOR - SINGLE LINE DIAGRAM	FS	SPRINKLER FLOW SWITCH
	* METER BASE - SINGLE LINE DIAGRAM	H	HEAT DETECTOR - FIRE ALARM
	FUSED DISCONNECT - SINGLE LINE DIAGRAM		HORN - FIRE ALARM
	* CT CABINET - SINGLE LINE DIAGRAM		HORN/STROBE - FIRE ALARM
		PIV	POST INDICATOR VALVE - (PIV)
		PRE-A	PRE-ACTION PANEL
		PS	PRESSURE SWITCH
		F	PULL STATION - FIRE ALARM
		SD	SMOKE DAMPER
		SD	SMOKE DETECTOR
		CO SD	COMBINATION SMOKE/CO2 DETECTOR
		SP	SPEAKER - FIRE ALARM
		SP	SPEAKER/STROBE - FIRE ALARM
			STROBE - FIRE ALARM

* FINAL METER CONFIGURATION TBD/ APPROVED BY LOCAL UTILITY COMPANY PRIOR TO CONSTRUCTION.

ABBREVIATIONS:

#	Number	HP	Heat Pump
Ω	Ohm	HZ	Hertz
Φ	Phase	IG	Isolated Ground
A	Amperes	IMC	Intermediate Metal Conduit
AC	Alternating Current	KCMIL	Thousand Circular Mils
A/C	Air Conditioning	KVA	Kilovolt-Amperes
AFCI	Arc Fault Current Interrupter	LFMC	Liquid Tight Metal Conduit
AHU	Air Handling Unit	LTG	Lighitng
AIC	Ampere Interrupting Capacity	LRA	Locked Rotor Amperes
AL	Aluminum	MC	Metal Clad Cable
ATS	Automatic Transfer Switch	MCB	Main Circuit Breaker
ATC	Automatic Temperature Control	MCC	Motor Control Center
AWG	American Wire Gauge	MLO	Main Lug Only
C	Conduit	NC	Normally Closed
CATV	Cable Television	NEC	National Electrical Code
CB	Critical Branch	NEMA	National Electrical Manufactures Association
C/B	Circuit Breaker	NFPA	National Fire Protection Association
CKT	Circuit	NL	Night Lighting (Egress Illumination)
CCTV	Closed Circuit Television	NO	Normally Open
CT	Current Transformer	NTS	Not To Scale
CU	Condensing Unit	P	Pole
DC	Direct Current	PB	Push Button or Panic Button or Pull Box
DIA	Diameter	PNL	Panel
EC	Electrical Contractor	PWR	Power
EF	Exhaust Fan	QTY	Quantity
ELEV	Elevator	REQ	Required
EM	Emergency	RMC	Rigid Metal Conduit
EMT	Electrical Metallic Tubing	RNC	Rigid Non-Metallic Conduit
EPO	Emergency Power Off	RTU	Roof Top Unit
EWC	Electric Water Cooler	ST	Shunt Trip
EWH	Electric Water Heater	SW	Switch
FA	Fire Alarm	TSTAT	Thermostat
FAA	Fire Alarm Annuciator	TYP	Typical
FLA	Full Load Amperes	UG	Underground
FMC	Flexible Metal Conduit	UL	Underwriters Labratory
GF	Gas Furnace	UNO	Unless Noted Otherwise
GFCI	Ground Fault Current Interrupter	V	Volt
GND	Ground	VA	Volt-Amperes
GWH	Gas Water Heater	W	Watt or Wire
HOA	Hand-Off-Automatic Switch	WP	Weather Proof
HVAC	Heating, Ventilation, Air Conditioning	XFMR	Transformer

EXAMPLES:



NOTE: ALL ITEMS MAY NOT BE USED.

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09.13.2024

Key Plan:

PR - 10665

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PAUL R. SPRONG REGISTERED PE11200556 STATE OF INDIANA PROFESSIONAL ENGINEER

THE LANDING 3.0

NEW CONSTRUCTION
Columbia St., Indiana

REVISION		
No.	Date	Revision

DRAWING CONTENTS:
ELECTRICAL DETAILS

ISSUE DATE:	PROJECT NO.
09-03-24	10665

DRAWING NO.
E-400

MC-RES

ROOM	VOLTS **208Y/120V 3P 4W**	AIC **T.B.D.**
MOUNTING **FLUSH**	BUS AMPS **1200**	MAIN BKR **1200**
FED FROM **UTILITY**	NEUTRAL **100%**	LUGS **STANDARD**
NOTE		

CKT #	BREAKER TRIP/POLES	CIRCUIT DESCRIPTION	LOAD KVA A	LOAD KVA B	LOAD KVA C	FEEDER RACEWAY AND CONDUCTORS
1	125/2	PANEL 201	19.3	21		2#2/0 AL,#2/0 AL N,#4 AL G
2	125/2	PANEL 202		20.6	19.9	2#2/0 AL,#2/0 AL N,#4 AL G
3	125/2	PANEL 203	21.1		19.8	2#2/0 AL,#2/0 AL N,#4 AL G
4	125/2	PANEL 204	20.6	19.9		2#2/0 AL,#2/0 AL N,#4 AL G
5	125/2	PANEL 205		20.6	19.9	2#2/0 AL,#2/0 AL N,#4 AL G
6	125/2	PANEL 206	20.9		19.1	2#2/0 AL,#2/0 AL N,#4 AL G
7	125/2	PANEL 207	20.6	19.9		2#2/0 AL,#2/0 AL N,#4 AL G
8	125/2	PANEL 208		19.1	20.2	2#2/0 AL,#2/0 AL N,#4 AL G
9	125/2	PANEL 301	21		19.3	2#2/0 AL,#2/0 AL N,#4 AL G
10	125/2	PANEL 302	20.6	19.9		2#2/0 AL,#2/0 AL N,#4 AL G
11	125/2	PANEL 303		19.8	21.1	2#2/0 AL,#2/0 AL N,#4 AL G
12	125/2	PANEL 304	19.3		20.1	2#2/0 AL,#2/0 AL N,#4 AL G
13	125/2	PANEL 305	19.1	20.9		2#2/0 AL,#2/0 AL N,#4 AL G
14	125/2	PANEL 306		20.6	19.9	2#2/0 AL,#2/0 AL N,#4 AL G
15	125/2	PANEL 307	19.9		20.6	2#2/0 AL,#2/0 AL N,#4 AL G
16	125/2	PANEL 308	19.1	20.2		2#2/0 AL,#2/0 AL N,#4 AL G
17	125/2	PANEL 401		19.3	21	2#2/0 AL,#2/0 AL N,#4 AL G
18	125/2	PANEL 402	19.9		20.6	2#2/0 AL,#2/0 AL N,#4 AL G
19	125/2	PANEL 403	20.6	19.9		2#2/0 AL,#2/0 AL N,#4 AL G
20	125/2	PANEL 404		20.6	19.9	2#2/0 AL,#2/0 AL N,#4 AL G
21	125/2	PANEL 405	20.9		19.1	2#2/0 AL,#2/0 AL N,#4 AL G
22	125/2	PANEL 406	20.6	19.9		2#2/0 AL,#2/0 AL N,#4 AL G
23	125/2	PANEL 407		20.6	19.9	2#2/0 AL,#2/0 AL N,#4 AL G
24	125/2	PANEL 408	20.2		19.1	2#2/0 AL,#2/0 AL N,#4 AL G
25	125/2	PANEL 501	19.3	21		2#2/0 AL,#2/0 AL N,#4 AL G
26	125/2	PANEL 502		20.6	19.9	2#2/0 AL,#2/0 AL N,#4 AL G
27	125/2	PANEL 503	21.1		19.8	2#2/0 AL,#2/0 AL N,#4 AL G
28	125/2	PANEL 504	20.1	19.3		2#2/0 AL,#2/0 AL N,#4 AL G
29	125/2	PANEL 505		19.1	20.9	2#2/0 AL,#2/0 AL N,#4 AL G
30	125/2	PANEL 506	20.9		19.1	2#2/0 AL,#2/0 AL N,#4 AL G
31	125/2	PANEL 507	19.1	20.9		2#2/0 AL,#2/0 AL N,#4 AL G
32	125/2	PANEL 508		19.1	20.2	2#2/0 AL,#2/0 AL N,#4 AL G
33	125/2	PANEL 601	21		19.3	2#2/0 AL,#2/0 AL N,#4 AL G
34	125/2	PANEL 602	20.6	19.9		2#2/0 AL,#2/0 AL N,#4 AL G
35	125/2	PANEL 603		19.8	21.1	2#2/0 AL,#2/0 AL N,#4 AL G
36	125/2	PANEL 604	19.3		20.1	2#2/0 AL,#2/0 AL N,#4 AL G
37	125/2	PANEL 605	19.1	20.9		2#2/0 AL,#2/0 AL N,#4 AL G
38	125/2	PANEL 606		19.1	20.9	2#2/0 AL,#2/0 AL N,#4 AL G
39	125/2	PANEL 607	20.9		19.1	2#2/0 AL,#2/0 AL N,#4 AL G
40	125/2	PANEL 608	19.1	20.2		2#2/0 AL,#2/0 AL N,#4 AL G
		TOTAL CONNECTED KVA BY PHASE	544	543	520	

OPTIONAL MULTIFAMILY DWELLING CALCULATION (NEC 220.84)

	KVA			KVA
LIGHTING AND RECEPTACLES	88.9	29,631 SF (3 VA/SF)	CONNECTED LOAD	1,580
SMALL-APPLIANCE	120		DWELLING UNITS	40
LAUNDRY	60		DEMAND FACTOR	(28%)
APPLIANCES	568		CALCULATED LOAD	442
ELECTRIC COOKING	416		BALANCED 3-PHASE LOAD	1,230 A
HEATING	325	(100%)		
COOLING	143	(0%)		

E

ROOM	VOLTS **208Y/120V 3P 4W**	AIC **T.B.D.**
MOUNTING **FLUSH**	BUS AMPS **100**	MAIN BKR **100**
FED FROM **WIREWAY**	NEUTRAL **100%**	LUGS **STANDARD**
NOTE		

CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION		CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION
1	20/1	1.2	ELEVATOR CONTROLS	a	2	20/1	0.5	ESP1
3	20/1	0.054	LIGHTING	b	4	20/1	0	SPACE
5	20/1	0.18	RECEPTACLE	c	6	20/1	0	SPACE
7	20/1	0	SPACE	a	8	20/1	0	SPACE
9	20/1	0	SPACE	b	10	20/1	0	SPACE
11	20/1	0	SPACE	c	12	20/1	0	SPACE
13	20/1	0	SPACE	a	14	20/1	0	SPACE
15	20/1	0	SPACE	b	16	20/1	0	SPACE
17	20/1	0	SPACE	c	18	20/1	0	SPACE
19	20/1	0	SPACE	a	20	20/1	0	SPACE
21	20/1	0	SPACE	b	22	20/1	0	SPACE
23	20/1	0	SPACE	c	24	20/1	0	SPACE

	CONN KVA	CALC KVA			CALC KVA
LIGHTING	1.25	1.57	(125%)	TOTAL LOAD	2.25
RECEPTACLES	0.68	0.68	(50%>10)	BALANCED 3-PHASE LOAD	6.24 A
				PHASE A	264%
				PHASE B	8.38%
				PHASE C	27.9%

H1

ROOM	VOLTS **208Y/120V 3P 4W**	AIC **T.B.D.**
MOUNTING **FLUSH**	BUS AMPS **400**	MAIN BKR **400**
FED FROM **CT-CAB H**	NEUTRAL **100%**	LUGS **STANDARD**
NOTE		

CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION		CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION
1	20/2	1.5	EWH-1	a	2	30/2	4.5	EDWH2
3				b	4			
5	20/2	1.5	EWH-2	c	6	20/3	2.2	EUH-5
7				a	8			
9	20/1	0.796	LIGHTING	b	10			
11	20/1	0.787	LIGHTING	c	12	30/3	6.81	DBP1
13	20/1	0.787	LIGHTING	a	14			
15	20/1	1.32	LIGHTING	b	16			
17	20/1	0.1	FIRE ALARM PANEL	c	18	20/3	2.49	JOCKEY PUMP
19	20/1	0.36	RECEPTACLE	a	20			
21	20/1	1.26	RECEPTACLE	b	22			
23	20/1	0.54	RECEPTACLE	c	24	30/2	5.2	AHU-3
25	20/1	0.54	RECEPTACLE	a	26			
27	20/1	0.18	EF-2	b	28	20/1	1.2	SECURITY POWER
29	20/1	0.36	RECEPTACLE	c	30	20/1	1.2	SECURITY POWER
31	20/3	3.99	TRASH COMPACTOR	a	32	20/1	0.18	RECEPTACLE
33				b	34	20/1	0.36	RECEPTACLE
35				c	36	20/1	0.063	LIGHTING
37	20/1	1.5	ECH-1	a	38	20/1	0	SPACE
39	20/2	3	EUH-6	b	40	20/1	0	SPACE
41				c	42	20/1	0	SPACE
43	20/1	0	SPACE	a	44	20/1	0	SPACE
45	20/1	0	SPACE	b	46	20/1	0	SPACE
47	20/1	0	SPACE	c	48	20/1	0	SPACE
49	20/1	0	SPACE	a	50	20/1	0	SPACE
51	20/1	0	SPACE	b	52	20/1	0	SPACE
53	20/1	0	SPACE	c	54	20/1	0	SPACE
55	200/3	31.5	PANEL H6	a	56	-/3	0	EXTENSION OF 37,39,41
57				b	58			
59				c	60			

	CONN KVA	CALC KVA			CONN KVA	CALC KVA	
LIGHTING	7.51	9.39	(125%)	RECEPTACLES	8.7	8.7	(50%>10)
LARGEST MOTOR	16.1	4.02	(25%)	CONTINUOUS	4.5	5.63	(125%)
MOTORS	13.7	13.7	(100%)	NONCONTINUOUS	5.5	5.5	(100%)
				HEATING	34.3	34.3	(100%)
				COOLING	19.4	0	(0%)
				TOTAL LOAD		81.2	
				BALANCED 3-PHASE LOAD		225 A	
				PHASE A		107%	
				PHASE B		105%	
				PHASE C		88.1%	

A

ROOM	VOLTS **208Y/120V 3P 4W**	AIC **T.B.D.**
MOUNTING **FLUSH**	BUS AMPS **400**	MAIN BKR **MLO**
FED FROM **SD-A**	NEUTRAL **100%**	LUGS **STANDARD**
NOTE		

CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION		CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION
1	20/1	0.115	LIGHTING	a	2	20/3	5	EUH-1
3	20/1	0.54	RECEPTACLE	b	4			
5	20/1	0.72	RECEPTACLE	c	6			
7	20/1	1.2	SIGNAGE	a	8	20/3	5	EUH-2
9	20/1	0	SPACE	b	10			
11	20/1	0	SPACE	c	12			
13	20/1	0	SPACE	a	14	20/1	0	SPACE
15	20/1	0	SPACE	b	16	20/1	0	SPACE
17	20/1	0	SPACE	c	18	20/1	0	SPACE
19	20/1	0	SPACE	a	20	20/1	0	SPACE
21	20/1	0	SPACE	b	22	20/1	0	SPACE
23	20/1	0	SPACE	c	24	20/1	0	SPACE
25	20/1	0	SPACE	a	26	20/1	0	SPACE
27	20/1	0	SPACE	b	28	20/1	0	SPACE
29	20/1	0	SPACE	c	30	20/1	0	SPACE
31	20/1	0	SPACE	a	32	20/1	0	SPACE
33	20/1	0	SPACE	b	34	20/1	0	SPACE
35	20/1	0	SPACE	c	36	20/1	0	SPACE
37	20/1	0	SPACE	a	38	20/1	0	SPACE
39	20/1	0	SPACE	b	40	20/1	0	SPACE
41	20/1	0.54	RECEPTACLE	c	42	20/1	0	SPACE

	CONN KVA	CALC KVA			CONN KVA	CALC KVA	
LIGHTING	1.31	1.64	(125%)	RECEPTACLES	1.8	1.8	(50%>10)
				HEATING	10	10	(100%)
				TOTAL LOAD		13.4	
				BALANCED 3-PHASE LOAD		37.3 A	
				PHASE A		106%	
				PHASE B		88.6%	
				PHASE C		105%	

H6

ROOM	VOLTS **208Y/120V 3P 4W**	AIC **T.B.D.**
MOUNTING **FLUSH**	BUS AMPS **200**	MAIN BKR **MLO**
FED FROM **H1**	NEUTRAL **100%**	LUGS **STANDARD**
NOTE		

CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION		CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION
1	45/3	16.1	RTU-1	a	2	25/2	3.12	HP-3
3				b	4			
5				c	6	20/1	0.54	RECEPTACLE
7	20/1	0.787	LIGHTING	a	8	20/1	0.54	RECEPTACLE
9	20/1	0	SPACE	b	10	20/1	0.54	RECEPTACLE
11	20/1	0.787	LIGHTING	c	12	15/1	0.24	EF-1
13	20/1	0.787	LIGHTING	a	14	20/1	0.72	RECEPTACLE
15	20/1	1.4	PARAPET LIGHTING	b	16	20/1	0.36	RECEPTACLE
17	20/1	0	SPACE	c	18	20/1	1.8	RADON REDUCTION SYSTEM
19	20/1	0	SPACE	a	20	20/1	1.8	RADON REDUCTION SYSTEM
21	15/1	0.192	EF-3	b	22	20/1	1.8	RADON REDUCTION SYSTEM
23	20/1	0	SPACE	c	24	20/1	0	SPACE
25	20/1	0	SPACE	a	26	20/1	0	SPACE
27	20/1	0	SPACE	b	28	20/1	0	SPACE
29	20/1	0	SPACE	c	30	20/1	0	SPACE
31	20/1	0	SPACE	a	32	20/1	0	SPACE
33	20/1	0	SPACE	b	34	20/1	0	SPACE
35	20/1	0	SPACE	c	36	20/1	0	SPACE
37	20/1	0	SPACE	a	38	20/1	0	SPACE
39	20/1	0	SPACE	b	40	20/1	0	SPACE
41	20/1	0	SPACE	c	42	20/1	0	SPACE

	CONN KVA	CALC KVA			CONN KVA	CALC KVA	
LIGHTING	3.76	4.7	(125%)	RECEPTACLES	2.7	2.7	(50%>10)
LARGEST MOTOR	16.1	4.02	(25%)	NONCONTINUOUS	5.4	5.4	(100%)
MOTORS	0.192	0.192	(100%)	HEATING	19.4	19.4	(100%)
				COOLING	19.4	0	(0%)
				TOTAL LOAD		36.4	
				BALANCED 3-PHASE LOAD		101 A	
				PHASE A		110%	
				PHASE B		107%	
				PHASE C		82.9%	

B

ROOM	VOLTS **208Y/120V 3P 4W**	AIC **T.B.D.**
MOUNTING **FLUSH**	BUS AMPS **400**	MAIN BKR **MLO**
FED FROM **SD-B**	NEUTRAL **100%**	LUGS **STANDARD**
NOTE		

CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION		CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION
1	20/3	5	EUH-4	a	2	20/1	0	SPACE
3				b	4	20/1	0	SPACE
5				c	6	20/1	0	SPACE
7	20/3	5	EUH-3	a	8	20/1	0	SPACE
9				b	10	20/1	0	SPACE
11				c	12	20/1	0	SPACE
13	20/1	0	SPACE	a	14	20/1	0	SPACE
15	20/1	0	SPACE	b	16	20/1	0	SPACE
17	20/1	0	SPACE	c	18	20/1	0	SPACE
19	20/1	0	SPACE	a	20	20/1	0	SPACE
21	20/1	0	SPACE	b	22	20/1	0	SPACE
23	20/1	0	SPACE	c	24	20/1	0	SPACE
25	20/1	0	SPACE	a	26	20/1	0	SPACE
27	20/1	0	SPACE	b	28	20/1	0	SPACE
29	20/1	0	SPACE	c	30	20/1	0	SPACE
31	20/1	0	SPACE	a	32	20/1	0	SPACE
33	20/1	0	SPACE	b	34	20/1	0	SPACE
35	20/1	0	SPACE	c	36	20/1	0	SPACE
37	20/1	0	SPACE	a	38	20/1	0	SPACE
39	20/1	1.2	SIGNAGE	b	40	20/1	0	SPACE
41	20/1	1.26	RECEPTACLE	c	42	20/1	0	SPACE

	CONN KVA	CALC KVA			CONN KVA	CALC KVA	
LIGHTING	1.2	1.5	(125%)	RECEPTACLES	1.26	1.26	(50%>10)
				HEATING	10	10	(100%)
				TOTAL LOAD		12.8	
				BALANCED 3-PHASE LOAD		35.4 A	
				PHASE A		80.2%	
				PHASE B		109%	
				PHASE C		111%	

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Columbia St., Indiana

REVISION

No.	Date	Revision

DRAWING CONTENTS:
ELECTRICAL DETAILS

ISSUE DATE:	PROJECT NO:
09-03-24	10665

DRAWING NO.
E-401

TYPE A

ROOM
MOUNTING **FLUSH**
FED FROM
NOTE

VOLTS **208/120V 2P 3W**
BUS AMPS **125**
NEUTRAL **100%**

AIC **T.B.D.**
MAIN BKR **MLO**
LUGS **STANDARD**

CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION		CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION
1	25/2	3.02	AHU-2	a	2	50/2	10.4	RANGE
3	|			b	4	|		
5	35/2	4.16	HP-2	a	6	20/1	1.5	SMALL APPLIANCE
7	|			b	8	20/1	1.5	SMALL APPLIANCE
9	30/2	4.5	EDWH1	a	10	20/1	0.5	FRIG.
11	|			b	12	20/1	1.8	MICROWAVE
13	30/2	5	DRYER	a	14	20/1	1.2	DISHWASHER
15	|			b	16	20/1	1.2	DISPOSAL
17	20/1	1.5	LAUNDRY	a	18	20/1	0.18	BATH
19	15/1	1.05	CEF-1, LIGHTING, RECEPTACLE	b	20	20/1	0	SPACE
21	15/1	0.918	LIGHTING, RECEPTACLE	a	22	20/1	0	SPACE
23	15/1	1.9	LIGHTING, RECEPTACLE	b	24	20/1	0	SPACE

OPTIONAL DWELLING UNIT CALCULATION (NEC 220.82)

	CONN KVA	
LIGHTING AND RECEPTACLES	2.76	920 SF (3 VA/SF)
SMALL-APPLIANCE	3	
LAUNDRY	1.5	
APPLIANCES	14.2	
ELECTRIC COOKING	10.4	
TOTAL GENERAL LOAD	31.9	

	CONN KVA	CALC KVA	
GENERAL LOAD			
UP TO 10 KVA	10	10	(100%)
OVER 10 KVA	21.9	8.74	(40%)
MAX HEATING OR COOLING		6.12	(220.82(C)(3))
TOTAL LOAD		24.9	
BALANCED LOAD		120 A	
PHASE A		96.4%	
PHASE B		104%	

TYPE B

ROOM
MOUNTING **FLUSH**
FED FROM
NOTE

VOLTS **208/120V 2P 3W**
BUS AMPS **125**
NEUTRAL **100%**

AIC **T.B.D.**
MAIN BKR **MLO**
LUGS **STANDARD**

CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION		CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION
1	30/2	5.2	AHU-1	a	2	50/2	10.4	RANGE
3	|			b	4	|		
5	20/2	3.33	HP-1	a	6	20/1	1.5	SMALL APPLIANCE
7	|			b	8	20/1	1.5	SMALL APPLIANCE
9	30/2	4.5	EDWH1	a	10	20/1	0.5	FRIG.
11	|			b	12	20/1	1.8	MICROWAVE
13	30/2	5	DRYER	a	14	20/1	1.2	DISPOSAL
15	|			b	16	20/1	1.2	DISHWASHER
17	20/1	1.5	LAUNDRY	a	18	20/1	0	SPACE
19	15/1	1.05	CEF-1, LIGHTING, RECEPTACLE	b	20	20/1	0	SPACE
21	15/1	1.69	LIGHTING, RECEPTACLE	a	22	20/1	0	SPACE
23	20/1	0.18	BATH	b	24	20/1	0	SPACE

OPTIONAL DWELLING UNIT CALCULATION (NEC 220.82)

	CONN KVA	
LIGHTING AND RECEPTACLES	2.31	769 SF (3 VA/SF)
SMALL-APPLIANCE	3	
LAUNDRY	1.5	
APPLIANCES	14.2	
ELECTRIC COOKING	10.4	
TOTAL GENERAL LOAD	31.4	

	CONN KVA	CALC KVA	
GENERAL LOAD			
UP TO 10 KVA	10	10	(100%)
OVER 10 KVA	21.4	8.56	(40%)
MAX HEATING OR COOLING		6.71	(220.82(C)(3))
TOTAL LOAD		25.3	
BALANCED LOAD		121 A	
PHASE A		101%	
PHASE B		98.6%	

TYPE C

ROOM
MOUNTING **FLUSH**
FED FROM
NOTE

VOLTS **208/120V 2P 3W**
BUS AMPS **125**
NEUTRAL **100%**

AIC **T.B.D.**
MAIN BKR **MLO**
LUGS **STANDARD**

CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION		CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION
1	25/2	3.02	AHU-2	a	2	50/2	10.4	RANGE
3	|			b	4	|		
5	35/2	4.16	HP-2	a	6	20/1	1.5	SMALL APPLIANCE
7	|			b	8	20/1	1.5	SMALL APPLIANCE
9	30/2	4.5	EDWH1	a	10	20/1	0.5	FRIG.
11	|			b	12	20/1	1.2	DISHWASHER
13	30/2	5	DRYER	a	14	20/1	1.2	DISPOSAL
15	|			b	16	20/1	1.8	MICROWAVE
17	20/1	1.5	LAUNDRY	a	18	20/1	0.36	BATH
19	15/1	1.25	CEF-1, LIGHTING, RECEPTACLE	b	20	20/1	0	SPACE
21	15/1	1.18	CEF-1, LIGHTING, RECEPTACLE	a	22	20/1	0	SPACE
23	15/1	1.77	LIGHTING, RECEPTACLE	b	24	20/1	0	SPACE

OPTIONAL DWELLING UNIT CALCULATION (NEC 220.82)

	CONN KVA	
LIGHTING AND RECEPTACLES	3.23	1,075 SF (3 VA/SF)
SMALL-APPLIANCE	3	
LAUNDRY	1.5	
APPLIANCES	14.2	
ELECTRIC COOKING	10.4	
TOTAL GENERAL LOAD	32.3	

	CONN KVA	CALC KVA	
GENERAL LOAD			
UP TO 10 KVA	10	10	(100%)
OVER 10 KVA	22.3	8.93	(40%)
MAX HEATING OR COOLING		6.12	(220.82(C)(3))
TOTAL LOAD		25.1	
BALANCED LOAD		120 A	
PHASE A		97.3%	
PHASE B		103%	

TYPE D

ROOM
MOUNTING **FLUSH**
FED FROM
NOTE

VOLTS **208/120V 2P 3W**
BUS AMPS **125**
NEUTRAL **100%**

AIC **T.B.D.**
MAIN BKR **MLO**
LUGS **STANDARD**

CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION		CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION
1	25/2	3.02	AHU-2	a	2	50/2	10.4	RANGE
3	|			b	4	|		
5	35/2	4.16	HP-2	a	6	20/1	1.5	SMALL APPLIANCE
7	|			b	8	20/1	1.5	SMALL APPLIANCE
9	30/2	4.5	EDWH1	a	10	20/1	0.5	FRIG.
11	|			b	12	20/1	1.2	DISHWASHER
13	30/2	5	DRYER	a	14	20/1	1.2	DISPOSAL
15	|			b	16	20/1	1.8	MICROWAVE
17	20/1	1.5	LAUNDRY	a	18	20/1	0	SPACE
19	15/1	1.05	CEF-1, LIGHTING, RECEPTACLE	b	20	20/1	0	SPACE
21	15/1	1.85	LIGHTING, RECEPTACLE	a	22	20/1	0	SPACE
23	20/1	0.18	BATH	b	24	20/1	0	SPACE

OPTIONAL DWELLING UNIT CALCULATION (NEC 220.82)

	CONN KVA	
LIGHTING AND RECEPTACLES	2.34	780 SF (3 VA/SF)
SMALL-APPLIANCE	3	
LAUNDRY	1.5	
APPLIANCES	14.2	
ELECTRIC COOKING	10.4	
TOTAL GENERAL LOAD	31.4	

	CONN KVA	CALC KVA	
GENERAL LOAD			
UP TO 10 KVA	10	10	(100%)
OVER 10 KVA	21.4	8.58	(40%)
MAX HEATING OR COOLING		6.12	(220.82(C)(3))
TOTAL LOAD		24.7	
BALANCED LOAD		119 A	
PHASE A		102%	
PHASE B		98.2%	

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Consultant Logo:
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09.13.2024

Key Plan:

PR - 10665

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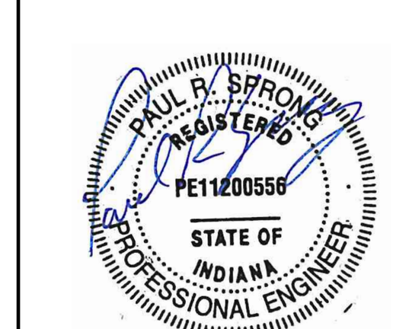

THE LANDING 3.0

NEW CONSTRUCTION
Columbia St., Indiana

REVISION		
No.	Date	Revision

DRAWING CONTENTS:
ELECTRICAL DETAILS

ISSUE DATE:	PROJECT NO.
09-03-24	10665

DRAWING NO.
E-402

TYPE D ADA

ROOM	VOLTS **208/120V 2P 3W**	AIC **T.B.D.**	
MOUNTING **FLUSH**	BUS AMPS **125**	MAIN BKR **MLO**	
FED FROM	NEUTRAL **100%**	LUGS **STANDARD**	
NOTE			

CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION		CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION
1	25/2	3.02	AHU-2	a	2	50/2	10.4	RANGE
3				b	4			
5	35/2	4.16	HP-2	a	6	20/1	1.5	SMALL APPLIANCE
7				b	8	20/1	1.5	SMALL APPLIANCE
9	30/2	4.5	EDWH1	a	10	20/1	0.5	FRIG.
11				b	12	20/1	1.2	DISHWASHER
13	30/2	5	DRYER	a	14	20/1	1.2	DISPOSAL
15				b	16	20/1	0.1	HOOD
17	20/1	1.5	LAUNDRY	a	18	20/1	1.8	MICROWAVE
19	15/1	1.3	CEF-1, LIGHTING, RECEPTACLE	b	20	20/1	0	SPACE
21	15/1	1.17	LIGHTING, RECEPTACLE	a	22	20/1	0	SPACE
23	20/1	0.18	BATH	b	24	20/1	0	SPACE

OPTIONAL DWELLING UNIT CALCULATION (NEC 220.82)

	CONN KVA	
LIGHTING AND RECEPTACLES	2.34	780 SF (3 VA/SF)
SMALL-APPLIANCE	3	
LAUNDRY	1.5	
APPLIANCES	14.2	
ELECTRIC COOKING	10.4	
MOTORS	0.1	
TOTAL GENERAL LOAD	31.5	

	CONN KVA	CALC KVA	
GENERAL LOAD			
UP TO 10 KVA	10	10	(100%)
OVER 10 KVA	21.5	8.62	(40%)
MAX HEATING OR COOLING		6.12	(220.82(C)(3))
TOTAL LOAD		24.7	
BALANCED LOAD		119 A	
PHASE A		107%	
PHASE B		92.5%	

TYPE E

ROOM	VOLTS **208/120V 2P 3W**	AIC **T.B.D.**	
MOUNTING **FLUSH**	BUS AMPS **125**	MAIN BKR **MLO**	
FED FROM	NEUTRAL **100%**	LUGS **STANDARD**	
NOTE			

CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION		CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION
1	30/2	5.2	AHU-1	a	2	50/2	10.4	RANGE
3				b	4			
5	20/2	3.33	HP-1	a	6	20/1	1.5	SMALL APPLIANCE
7				b	8	20/1	1.5	SMALL APPLIANCE
9	30/2	4.5	EDWH1	a	10	20/1	0.5	FRIG.
11				b	12	20/1	1.8	MICROWAVE
13	30/2	5	DRYER	a	14	20/1	1.2	DISPOSAL
15				b	16	20/1	1.2	DISHWASHER
17	20/1	1.5	LAUNDRY	a	18	20/1	0	SPACE
19	15/1	2.18	CEF-1, LIGHTING, RECEPTACLE	b	20	20/1	0	SPACE
21	20/1	0.18	BATH	a	22	20/1	0	SPACE
23	20/1	0	SPACE	b	24	20/1	0	SPACE

OPTIONAL DWELLING UNIT CALCULATION (NEC 220.82)

	CONN KVA	
LIGHTING AND RECEPTACLES	1.73	575 SF (3 VA/SF)
SMALL-APPLIANCE	3	
LAUNDRY	1.5	
APPLIANCES	14.2	
ELECTRIC COOKING	10.4	
TOTAL GENERAL LOAD	30.8	

	CONN KVA	CALC KVA	
GENERAL LOAD			
UP TO 10 KVA	10	10	(100%)
OVER 10 KVA	20.8	8.33	(40%)
MAX HEATING OR COOLING		6.71	(220.82(C)(3))
TOTAL LOAD		25	
BALANCED LOAD		120 A	
PHASE A		96.2%	
PHASE B		104%	

TYPE E ADA

ROOM	VOLTS **208/120V 2P 3W**	AIC **T.B.D.**	
MOUNTING **FLUSH**	BUS AMPS **125**	MAIN BKR **MLO**	
FED FROM	NEUTRAL **100%**	LUGS **STANDARD**	
NOTE			

CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION		CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION
1	30/2	5.2	AHU-1	a	2	50/2	10.4	RANGE
3				b	4			
5	20/2	3.33	HP-1	a	6	20/1	1.5	SMALL APPLIANCE
7				b	8	20/1	1.5	SMALL APPLIANCE
9	30/2	4.5	EDWH1	a	10	20/1	0.5	FRIG.
11				b	12	20/1	1.2	DISHWASHER
13	30/2	5	DRYER	a	14	20/1	1.2	DISPOSAL
15				b	16	20/1	0.1	HOOD
17	20/1	1.5	LAUNDRY	a	18	20/1	1.8	MICROWAVE
19	15/1	1.21	CEF-1, LIGHTING, RECEPTACLE	b	20	20/1	0	SPACE
21	15/1	1.19	LIGHTING, RECEPTACLE	a	22	20/1	0	SPACE
23	20/1	0.18	BATH	b	24	20/1	0	SPACE

OPTIONAL DWELLING UNIT CALCULATION (NEC 220.82)

	CONN KVA	
LIGHTING AND RECEPTACLES	1.73	575 SF (3 VA/SF)
SMALL-APPLIANCE	3	
LAUNDRY	1.5	
APPLIANCES	14.2	
ELECTRIC COOKING	10.4	
MOTORS	0.1	
TOTAL GENERAL LOAD	30.9	

	CONN KVA	CALC KVA	
GENERAL LOAD			
UP TO 10 KVA	10	10	(100%)
OVER 10 KVA	20.9	8.37	(40%)
MAX HEATING OR COOLING		6.71	(220.82(C)(3))
TOTAL LOAD		25.1	
BALANCED LOAD		121 A	
PHASE A		107%	
PHASE B		92.6%	

TYPE F

ROOM	VOLTS **208/120V 2P 3W**	AIC **T.B.D.**	
MOUNTING **FLUSH**	BUS AMPS **125**	MAIN BKR **MLO**	
FED FROM	NEUTRAL **100%**	LUGS **STANDARD**	
NOTE			

CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION		CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION
1	30/2	5.2	AHU-1	a	2	50/2	10.4	RANGE
3				b	4			
5	20/2	3.33	HP-1	a	6	20/1	1.5	SMALL APPLIANCE
7				b	8	20/1	1.5	SMALL APPLIANCE
9	30/2	4.5	EDWH1	a	10	20/1	0.5	FRIG.
11				b	12	20/1	1.8	MICROWAVE
13	30/2	5	DRYER	a	14	20/1	1.2	DISPOSAL
15				b	16	20/1	1.2	DISHWASHER
17	20/1	1.5	LAUNDRY	a	18	20/1	0	SPACE
19	15/1	1.44	CEF-1, LIGHTING, RECEPTACLE	b	20	20/1	0	SPACE
21	20/1	0.18	BATH	a	22	20/1	0	SPACE
23	20/1	0	SPACE	b	24	20/1	0	SPACE

OPTIONAL DWELLING UNIT CALCULATION (NEC 220.82)

	CONN KVA	
LIGHTING AND RECEPTACLES	1.47	490 SF (3 VA/SF)
SMALL-APPLIANCE	3	
LAUNDRY	1.5	
APPLIANCES	14.2	
ELECTRIC COOKING	10.4	
TOTAL GENERAL LOAD	30.6	

	CONN KVA	CALC KVA	
GENERAL LOAD			
UP TO 10 KVA	10	10	(100%)
OVER 10 KVA	20.6	8.23	(40%)
MAX HEATING OR COOLING		6.71	(220.82(C)(3))
TOTAL LOAD		24.9	
BALANCED LOAD		120 A	
PHASE A		97.7%	
PHASE B		102%	

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THE LANDING 3.0

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Columbia St., Indiana

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DRAWING NO.
E-403

ELECTRICAL SPECIFICATIONS

1. GENERAL DEMOLITION
   a. REFER TO ARCHITECTURAL DRAWINGS, GENERAL NOTES, INSTRUCTIONS TO BIDDERS, GENERAL CONDITIONS, SUPPLEMENTARY GENERAL CONDITIONS, BASE BUILDING SPECIFICATIONS AND DRAWINGS, SHOP DRAWING MANUALS AND AS-BUILT PLANS, EXCEPT AS NOTED HEREIN, WHICH APPLY IN ALL RESPECTS TO THIS SECTION. THE CONTRACTOR SHALL VISIT THE SITE AND FAMILIARIZE HIMSELF WITH ALL EXISTING CONDITIONS PRIOR TO BIDDING THE WORK
2. USE OF DRAWINGS AND SPECIFICATIONS
   a. EBS DRAWINGS AND SPECIFICATIONS ARE INTENDED TO CONVEY DESIGN INTENT ONLY. ALL MEANS AND METHODS SEQUENCES, TECHNIQUES, AND PROCEDURES OF CONSTRUCTION AS WELL AS ANY ASSOCIATED SAFETY PRECAUTIONS AND PROGRAMS, AND ALL INCIDENTAL AND TEMPORARY DEVICES REQUIRED TO CONSTRUCT THE PROJECT, AND TO PROVIDE A COMPLETE AND FULLY OPERATIONAL ELECTRICAL SYSTEM ARE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
3. STANDARDS
   a. MATERIALS EQUIPMENT AND MATERIALS SHALL CONFORM WITH APPROPRIATE PROVISIONS OF NEC, ASTM, UL, ETL, NEMA, ANSI, AS APPLICABLE TO EACH INDIVIDUAL UNIT OR ASSEMBLY.
4. CODES
   a. ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH ALL APPLICABLE STATE AND LOCAL CODES AND ORDINANCES. IN CASE OF CONFLICT BETWEEN THE DRAWINGS/SPECIFICATIONS AND THE CODES AND ORDINANCES, THE HIGHEST STANDARD SHALL APPLY. THE ELECTRICAL CONTRACTOR SHALL SATISFY CODE REQUIREMENTS AS A MINIMUM STANDARD WITHOUT ANY EXTRA COST TO OWNER.
5. PERMITS AND FEES
   a. THE ELECTRICAL CONTRACTOR SHALL PROCURE AND PAY FOR ALL PERMITS, FEES AND INSPECTIONS NECESSARY TO COMPLETE THE ELECTRICAL WORK.
6. WARRANTY
   a. THE ELECTRICAL CONTRACTOR SHALL UNCONDITIONALLY WARRANT ALL WORK TO BE FREE OF DEFECTS IN MATERIAL AND WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE, AND WILL REPAIR OR REPLACE ANY DEFECTIVE WORK PROMPTLY AND WITHOUT CHARGE AND RESTORE ANY OTHER EXISTING WORK DAMAGED IN THE COURSE OF REPAIRING DEFECTIVE MATERIALS AND WORKMANSHIP.
7. SITE EXAMINATION
   a. THE ELECTRICAL CONTRACTOR SHALL THOROUGHLY EXAMINE ALL AREAS OF WORK WHERE EQUIPMENT WILL BE INSTALLED AND SHALL REPORT ANY CONDITION THAT, IN HIS OPINION, PREVENTS THE PROPER INSTALLATION OF THE ELECTRICAL WORK PRIOR TO BID. HE SHALL ALSO EXAMINE THE DRAWINGS AND SPECIFICATIONS OF OTHER BRANCHES OF WORK MAKING REFERENCE TO THEM FOR DETAILS OF NEW OR EXISTING BUILDING CONDITIONS.
   b. ALL WORK SHALL BE DONE AT TIMES CONVENIENT TO THE OWNER AND ONLY DURING NORMAL WORKING HOURS, UNLESS SPECIFIED OTHERWISE.
   c. ELECTRICAL CONTRACTOR SHALL TAKE HIS OWN MEASUREMENTS AND BE RESPONSIBLE FOR THEM.
   d. ACCESS PANELS ARE NOT SHOWN ON DRAWINGS. DURING SITE EXAMINATION, CONTRACTOR SHALL IDENTIFY ALL AREAS WHERE ACCESS PANELS ARE REQUIRED, AND REPORT TO GENERAL CONTRACTOR. DESIGNATION OF WHO FURNISHES AND WHO INSTALLS ACCESS PANELS MUST BE COORDINATED WITH GENERAL CONTRACTOR PRIOR TO STARTING WORK.
8. CONTRACTOR COORDINATION
   a. COORDINATION DRAWINGS SHOWING SYSTEM AND COMPONENT INSTALLATION LAYOUT, ROUTING, DETAILS, ETC. SHALL BE PRODUCED BY THE ELECTRICAL CONTRACTOR AND UNDER THE SUPERVISION OF THE GENERAL CONTRACTOR/CONSTRUCTION MANAGER, OR APPROPRIATE PARTY AS APPLICABLE.
   b. ALL SYSTEMS INSTALLED BY EACH SUB-CONTRACTOR SHALL BE COORDINATED WITH ONE ANOTHER AND APPROVED BY GENERAL CONTRACTOR/CONSTRUCTION MANAGER, ETC. PRIOR TO INSTALLATION AND/OR FABRICATION. WHERE THE ELECTRICAL CONTRACTOR IS MAKING A CONNECTION TO EQUIPMENT/COMPONENTS THAT ARE FURNISHED BY OTHERS, ELECTRICAL CONTRACTOR TO VERIFY ALL CONNECTION REQUIREMENTS WITH ACTUAL EQUIPMENT BEING CONNECTED, INCLUDING BUT NOT LIMITED TO OCP SIZE, MEANS OF DISCONNECT, SPECIAL CONNECTION REQUIREMENTS, OR OTHER ITEMS INDICATED ON SHOP DRAWINGS, OR MANUFACTURER'S INSTALLATION INSTRUCTIONS AND/OR INSTALLATION DIAGRAMS, AND FURNISH ALL LABOR AND MATERIALS REQUIRED FOR THE INSTALLATION AND OPERATION OF THE EQUIPMENT. NO ALLOWANCES WILL BE MADE FOR FAILURE TO COORDINATE, AFTER ELECTRICAL CONNECTIONS HAVE BEEN INSTALLED.
   c. IF QUESTIONS CONCERNING DESIGN INTENT ARISE DURING COORDINATION, EBS CAN ASSIST WHERE APPROPRIATE.
   d. THE ARCHITECTURAL DRAWINGS SHALL TAKE PRECEDENCE OVER ALL OTHER DRAWINGS. DO NOT SCALE DISTANCES OFF THE ELECTRICAL DRAWINGS; USE ACTUAL BUILDING DIMENSIONS.
   e. COORDINATION DRAWINGS SHOWING SYSTEM AND COMPONENT INSTALLATION LAYOUT, ROUTING, DETAILS, ETC. SHALL BE PRODUCED BY THE ELECTRICAL CONTRACTOR AND UNDER THE SUPERVISION OF THE GENERAL CONTRACTOR/CONSTRUCTION MANAGER, OR APPROPRIATE PARTY AS APPLICABLE. ALL SYSTEMS INSTALLED BY EACH SUB-CONTRACTOR SHALL BE COORDINATED WITH ONE ANOTHER AND APPROVED BY GENERAL CONTRACTOR/CONSTRUCTION MANAGER, ETC. PRIOR TO INSTALLATION AND/OR FABRICATION. IF QUESTIONS CONCERNING DESIGN INTENT ARISE DURING COORDINATION, EBS CAN ASSIST WHERE APPROPRIATE.
9. UTILITY COORDINATION
   a. ELECTRICAL CONTRACTOR TO VERIFY INSTALLATION OF METERING AND UTILITY DEMARCATION EQUIPMENT WITH UTILITY PROVIDER PRIOR TO START OF WORK AND FURNISH AND INSTALL REQUIRED ITEMS PER UTILITY COMPANY'S INSTALLATION REQUIREMENTS AND/OR MANUALS.
10. SUBMITTALS
   a. PRODUCTS INSTALLED BY THE ELECTRICAL CONTRACTOR AND PROVIDED BY OTHERS MUST BE SUBMITTED FOR REVIEW PRIOR TO PURCHASING. PRODUCTS SHALL NOT BE SELECTED BASED ON PERMIT DRAWINGS WITHOUT EXPRESS PERMISSION - PRODUCTS SHALL BE SELECTED BASED ON CONSTRUCTION DRAWINGS.
11. RECORD DRAWING
   a. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR CREATING RECORD DRAWINGS WHERE REQUIRED. DRAWINGS SHALL BE PRODUCED IN AUTOCAD 2004 FORMAT OR LATER.
12. SHOP DRAWINGS
   a. SUBMIT TO THE ARCHITECT PDF FILE COPIES OF COMPLETE & CERTIFIED SHOP DRAWINGS, DESCRIPTIVE DATA, PERFORMANCE DATA & RATINGS, DIAGRAMS AND SPECIFICATIONS ON ALL SPECIFIED EQUIPMENT, INCLUDING ACCESSORIES, AND MATERIALS FOR REVIEW.
   b. THE MAKE, MODEL NUMBER, TYPE, FINISH & ACCESSORIES OF ALL EQUIPMENT AND MATERIALS SHALL BE REVIEWED & APPROVED BY THE ELECTRICAL CONTRACTOR & GENERAL CONTRACTOR PRIOR TO SUBMITTING TO THE ARCHITECT FOR THEIR REVIEW & APPROVAL.
   c. REVIEW OF SHOP DRAWINGS DOES NOT RELIEVE THE ELECTRICAL CONTRACTOR/VENDOR FROM COMPLIANCE WITH THE REQUIREMENTS OF THE CONTRACT DRAWINGS, SPECIFICATIONS & APPLICABLE CODES.
13. TESTING
   a. ALL ELECTRICAL SYSTEMS SHALL BE TESTED FOR PROPER OPERATION. BALANCE ALL BRANCH CIRCUIT LOADS BETWEEN THE PHASES OF THE SYSTEM TO WITHIN 10% OF THE HIGHEST PHASE LOAD IN EACH PANELBOARD.
14. TEMPORARY POWER
   a. THE ELECTRICAL CONTRACTOR SHALL PROVIDE TEMPORARY ELECTRICAL WIRING FOR CONSTRUCTION. THE TEMPORARY SERVICE SHALL BE A MINIMUM OF 60 AMPS, SINGLE PHASE, THREE WIRE, 120/208 VOLTS FUSED AT MAIN DISCONNECT. ALL RECEPTACLES ON THIS TEMPORARY SERVICE SHALL BE PROTECTED BY A GFI BREAKER.
15. MECHANICAL EQUIPMENT
   a. ALL FINAL CONNECTIONS TO MECHANICAL EQUIPMENT SHALL BE DONE BY THE ELECTRICAL CONTRACTOR.
16. DEMOLITION
   a. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR DEENERGIZING CIRCUITS IN DEMOLITION AREAS TO INSURE A SAFE CONDITION. ELECTRICAL DEVICES AND ASSOCIATED WIRING LOCATED WITHIN THE DEMOLITION AREA THAT WILL NO LONGER BE USED SHALL BE REMOVED AND PROPERLY DISPOSED OF AT CONTRACTOR'S EXPENSE UNLESS OTHERWISE NOTED.
17. POWER OUTAGES
   a. THE ELECTRICAL CONTRACTOR SHALL SCHEDULE ALL ELECTRICAL SYSTEM(S) OUTAGES WITH THE GENERAL CONTRACTOR AND OWNER AT LEAST 24 HOURS IN ADVANCE. UNLESS APPROVED OTHERWISE ALL OUTAGES SHALL OCCUR BETWEEN 11:00PM AND 5:00AM.
18. GROUNDING AND BONDING
   a. CONTRACTOR TO PROVIDE GROUNDING AND BONDING AS REQUIRED FOR ELECTRICAL SYSTEMS. GROUNDING AND BONDING IS CONSIDERED MEANS AND METHODS OF CONSTRUCTION, AND SHOULD BE COMPLETED BY THE ELECTRICAL CONTRACTOR IN ACCORDANCE WITH NEC 250.
   b. ANY GAS PIPING SYSTEMS MUST BE BONDED PER UTILITY PROVIDER'S INSTALLATION GUIDELINES WHERE REQUIRED.
19. MATERIALS
   a. PROVIDE ALL NEW MATERIAL AND EQUIPMENT UNLESS NOTED OTHERWISE. ALL EQUIPMENT SHALL BE UL APPROVED AND LABELED, OR OTHER APPROVED TESTING ORGANIZATION WHICH HAS ACCEPTANCE BY THE LOCAL JURISDICTION, FOR THE PURPOSE FOR WHICH THEY ARE USED, IN ADDITION TO MEETING ALL REQUIREMENTS OF THE CURRENT APPLICABLE CODES AND REGULATIONS. NO SUBSTITUTION TO MATERIALS SPECIFIED WILL BE ALLOWED UNLESS APPROVED BY THE OWNER.
   b. ELECTRICAL CONTRACTOR SHALL NOT ORDER OR PURCHASE ANY MATERIALS OR EQUIPMENT UNTIL PERMIT DRAWINGS HAVE BEEN APPROVED. NO ALLOWANCES WILL BE MADE FOR ANY CHANGES THAT OCCUR IF PERMIT DRAWINGS HAVE NOT BEEN APPROVED PRIOR TO ORDERING.
20. CUTTING AND FITTING
   a. PERFORM CUTTING, CORING, FITTING, REPAIRING AND FINISHING OF THE WORK NECESSARY FOR THE INSTALLATION OF THE EQUIPMENT OF THIS SECTION. HOWEVER, NO CUTTING OF THE WORK OF OTHER TRADES OR OF ANY STRUCTURAL MEMBER SHALL BE DONE WITHOUT THE CONSENT OF THE OWNER. PROPERLY FILL, SEAL, FIREPROOF, AND WATERPROOF ALL OPENINGS, SLEEVES, AND HOLES IN SLABS, WALLS, AND CASEWORK.
21. WIRING METHODS
   a. PROVIDE CODE APPROVED WIRING METHODS FOR BRANCH CIRCUITING INDOORS, SUCH AS NM CABLE (ONLY WHERE PERMITTED BY NEC 334), EMT CONDUIT, OR MC CABLE FOR MECHANICAL EQUIPMENT, LIGHTING, AND POWER.
   b. CONDUIT RUNS ON EXTERIOR OF BUILDING SHALL BE RIGID STEEL CONDUIT WITH WEATHER TIGHT, CORROSION-RESISTANT FITTINGS. SCHEDULE 40 PVC IS ACCEPTABLE WHERE PERMITTED BY CODE AND OR UNDERGROUND RUNS OR CONCRETE ENCASEMENT WHERE NOT EXPOSED TO PHYSICAL DAMAGE.
   c. THE MINIMUM SIZE OF CONDUIT SHALL BE 3/4" UNLESS OTHERWISE NOTED. CONDUIT CONNECTORS SHALL BE DOUBLE LOCKNUT TYPE, UL LISTED AND LABELED, WITH COMPRESSION OR SET SCREW FITTINGS.
   d. RIGID CONDUIT SHALL BE HOT DIPPED GALVANIZED.
   e. WHERE RACEWAYS ARE INSTALLED FOR OTHERS TO USE, OR FOR FUTURE USE, PROVIDE NYLON PULL STRING.
   f. PENETRATIONS THROUGH FIRE RATED CONSTRUCTION SHALL BE SEALED USING 3M FIRE BARRIER CAULK, NELSON ELECTRIC FLAMESEAL OR T&B FLAMESAFE OR OTHER APPROVED METHOD.
22. CONDUCTORS AND TERMINATIONS
   a. BRANCH CONDUCTORS SHALL BE COPPER, FEEDERS AS INDICATED ON RISER DIAGRAM. CONDUCTORS SHALL BE INSULATED FOR 600V NUMBER 12 AWG MINIMUM. PROVIDE WIRES AND CABLES AS INDICATED LISTED AND SUITABLE FOR TEMPERATURE, CONDITIONS, AND LOCATION WHERE INSTALLED.
23. MOTORS AND OTHER WIRING
   a. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL REQUIRED CONDUIT, WIRING, AND SAFETY SWITCHES FOR ALL MOTORS, AND OTHER ELECTRICAL EQUIPMENT, EVEN THOUGH THE MOTORS AND ELECTRICAL EQUIPMENT MAY BE SUPPLIED BY OTHERS. THE ELECTRICAL CONTRACTOR SHALL INCLUDE ALL WORK AND CONNECTIONS REQUIRED TO MAKE THE SYSTEM COMPLETE AND OPERATIONAL. PROVIDE MAGNETIC STARTERS FOR EQUIPMENT AS INDICATED ON THE DRAWINGS.
   b. THE ELECTRICAL EQUIPMENT MAY INCLUDE BUT NOT BE LIMITED TO SUCH ITEMS AS GRILLE MOTORS AND INTERLOCKS, EXTERIOR AND INTERIOR SIGNAGE, STARTING DEVICES, MOTOR CONTROLLERS, FLOAT SWITCHES, ALARM DEVICES OR SYSTEMS, PUSH BUTTONS, EXHAUST FANS, DATA SYSTEMS, INTERCOMS AND STEREO SYSTEMS. THE ELECTRICAL CONTRACTOR SHALL VERIFY EQUIPMENT LOCATION AND SIZES WITH THE TRADE SUPPLYING THE EQUIPMENT BEFORE INSTALLING THE CONDUIT OR OUTLETS.
24. ELEVATOR(S)
   a. FURNISH AND INSTALL ALL REQUIRED ELECTRICAL COMPONENTS AND CONNECTIONS FOR ELEVATOR OPERATION. REFER TO ELEVATOR SHOP DRAWINGS FOR COMPLETE INFORMATION. PROVIDE SHUNT-TRIP OPERATION FOR ELEVATOR CIRCUIT WHERE REQUIRED. INCLUDE CONNECTIONS FOR SHAFT, SUMP PUMP, PIT LIGHT, RECEPTACLE, CAB LIGHT, ETC. BASIS OF DESIGN HP AND CIRCUIT CHARACTERISTICS SHOWN ON DRAWINGS MUST BE VERIFIED WITH ELEVATOR SUPPLIER PRIOR TO ROUGH-IN OR INSTALLATION.
25. DEVICES
   a. HUBBELL, LEVITON, OR APPROVED EQUAL WITH MATCHING COVERPLATES.
   b. PROVIDE SPECIFICATION GRADE WIRING DEVICES, IN TYPES, CHARACTERISTICS, GRADES, COLORS, AND ELECTRICAL RATINGS FOR APPLICATIONS INDICATED, WHICH ARE UL-LISTED AND WHICH COMPLY WITH NEMA WD1 AND OTHER APPLICABLE UL AND NEMA STANDARDS. VERIFY COLOR SELECTIONS WITH ARCHITECT. PROVIDE DEVICE PLATES TO MATCH DEVICE COLORS.
   c. PROVIDE GFCI PROTECTION FOR ALL KITCHEN 15 AND 20-AMP RECEPTACLES. WHERE THE RECEPTACLE IS RENDERED INACCESSIBLE BY EQUIPMENT PROVIDE GFCI PROTECTION AT THE CIRCUIT BREAKER.
26. SERVICE ENTRANCE AND DISTRIBUTION EQUIPMENT
   a. ELECTRICAL CONTRACTOR MUST SUBMIT DRAWINGS FOR PERMIT AND RECEIVE APPROVAL PRIOR TO ORDERING EQUIPMENT. NO ALLOWANCES WILL BE MADE FOR EQUIPMENT CHANGES THAT OCCUR PRIOR TO RECEIPT OF APPROVED PLANS.
27. DISCONNECTS AND FUSED SWITCHES
   a. HEAVY DUTY TYPE, HORSEPOWER RATED WITH INTERLOCKING COVER. NEMA 1 TYPICAL. OUTDOOR AND WET LOCATION SWITCHES SHALL BE RAINTIGHT TYPE NEMA 3RR. ALL SWITCHES SHALL BE LOCKABLE. FUSES IN CIRCUITS RATED AT 600 AMPERES OR LESS SHALL BE UL CLASS RK1 DUAL-ELEMENT, TIME-DELAY, CURRENT LIMITING FUSES. FUSES IN CIRCUITS RATED AT 601 AMPERES OR LARGER SHALL BE UL CLASS L TIME-DELAY, CURRENT LIMITING FUSES.
28. NAMEPLATES
   a. PROVIDE PERMANENT NAMEPLATE LABELING ON ALL DISCONNECTS. INCLUDE LOAD SERVED, VOLTAGE, PHASE, HORSEPOWER, FUSE SIZE, AND TYPE.
29. MOUNTING
   a. MOUNT INDEPENDENT OF THE MECHANICAL UNIT HOUSING UNLESS SPECIFICALLY ACCEPTED BY THE LOCAL CODE AUTHORITY. PROVIDE UNISTRUT SUPPORT CHANNELS MOUNTED IN COORDINATION WITH ROOF PENETRATION AND PATCHING WORK. COORDINATE WITH GENERAL CONTRACTOR.
30. GROUNDING AND BONDING FOR ELECTRICAL SYSTEMS AND EQUIPMENT
   a. PROVIDE GROUNDING AND BONDING FOR ELECTRICAL SERVICE IN ACCORDANCE WITH NEC ARTICLE 250.
   b. ALL MAJOR PARTS NOT CARRYING CURRENT, INCLUDING BUT NOT LIMITED TO, SECONDARY FEEDER CIRCUIT, EQUIPMENT AND PANELBOARD ENCLOSURES, PULL AND JUNCTION BOXES, SHALL BE PROPERLY GROUNDED. METALLIC RACEWAYS SHALL UTILIZE DOUBLE LOCKNUTS AND OTHER FITTINGS AS REQUIRED TO PROVIDE GROUND CONTINUITY.
31. MULTI-TENANT METER CENTERS
   a. PROVIDE METER CENTERS(S) AS SHOWN ON THE DRAWINGS AND AS SPECIFIED HEREIN. METER CENTERS SHALL HAVE MAIN LUGS ONLY OR MAIN BREAKERS AS REQUIRED, AND SHALL HAVE BRANCH BREAKER INSTALLED FOR EACH METER SOCKET. METER CENTERS SHALL BE EATON, SQUARE D, GE BY ABB, OR EQUAL, AND SHALL BE OF THE SAME MANUFACTURE AS LOAD CENTERS OR PANELBOARDS SERVED. METER CENTERS SHALL BE ENCLOSED NEMA 1, NEMA 3R AS REQUIRED. FINAL CONFIGURATION (NUMBER OF METERS PER SECTION, END-MAIN/CENTER-MAIN, ETC. SHALL BE DETERMINED BY CONTRACTOR. ALL BUSSING MUST BE RATED FOR THE LOADS SERVED. METER CENTERS SHALL BE RATED TO WITHSTAND THE AVAILABLE FAULT CURRENT.
32. PANELBOARDS
   a. PROVIDE BRANCH CIRCUIT PANELBOARD(S) AS SHOWN ON THE DRAWINGS AND AS SPECIFIED HEREIN. PANELBOARDS SHALL HAVE BOLTED, THERMAL AND MAGNETIC BREAKERS WITH MAIN LUGS ONLY OR MAIN BREAKERS AS REQUIRED. PANELBOARDS SHALL BE EATON, SQUARE D, GE BY ABB, OR EQUAL, AND BE ENCLOSED IN NEMA 1 TYPE HOUSING UNLESS NOTED OTHERWISE. ENCLOSURE(S) SHALL BE COMPLETE WITH A HINGED DOOR, CYLINDER LOCK, AND A NEATLY TYPED DIRECTORY UNDER PLASTIC COVER IN EACH PANEL DOOR. ALL MULTIPLE POLE BREAKERS SHALL HAVE A COMMON TRIP HANDLE. ALL PANELS AND BREAKERS SHALL BE RATED TO WITHSTAND AVAILABLE FAULT CURRENT.
33. LIGHTING
   a. PROVIDE A NEW LIGHTING SYSTEM COMPLETE AND FULLY OPERATIONAL AND IN CONFORMANCE WITH CODE AND UL LISTING REQUIREMENTS. CLEAN ALL FIXTURES AT TIME OF JOB COMPLETION UTILIZING MANUFACTURERS APPROVED OR RECOMMENDED CLEANING SOLUTIONS. ALL FIXTURES AND LAMPS ARE PROVIDED BY THIS CONTRACTOR AS SCHEDULED UNLESS NOTED OTHERWISE. CONTRACTOR SHALL FURNISH ALL BOXES, MOUNTING KITS, TRANSFORMERS, CONTROLLERS, AND OTHER COMPONENTS NECESSARY FOR A COMPLETE AND FULLY FUNCTIONAL INSTALLATION.
   b. WHERE DIMMERS AND/OR DIMMING SYSTEMS ARE REQUIRED, CONTRACTOR TO FURNISH DIMMERS THAT ARE COMPATIBLE WITH FIXTURE SOURCE AND RATED FOR THE WATTAGE OF THE DIMMING ZONE. PROVIDE ADDITIONAL DIMMERS AS REQUIRED TO MEET ZONE LOAD REQUIREMENTS.
34. GENERATORS
   a. GENERATORS, TRANSFER SWITCHES, FUEL CAPACITY/RUN-TIMES, AND START-UP/OPERATION REQUIREMENTS SHALL CONFORM TO THE REQUIREMENTS FOR THEIR USE - STAND-BY, LEGALLY REQUIRED STAND-BY, EMERGENCY, ETC. CONTACTOR SHALL COORDINATE PAD REQUIREMENTS WITH GENERATOR SUPPLIER AND LOCATE ALL CONDUIT OPENINGS PER MANUFACTURER'S INSTALLATION GUIDES. PROVIDE ALL ANCILLARY WIRING FOR CONTROL, COMMUNICATION, BATTERY CHARGE, BLOCK HEATER, ETC. INSTALL PAD AND GENERATOR SUCH THAT REQUIRED CLEARANCES FROM BUILDINGS, BUILDING OPENINGS, AND OTHER OBSTRUCTIONS ARE MAINTAINED. COORDINATE GENERATOR CIRCUIT BREAKER/FEEDER REQUIREMENTS WITH ACTUAL EQUIPMENT BEING CONNECTED - FIRE PUMP, ETC. WHERE THE GENERATOR IS REQUIRED TO OPERATE AS A SEPARATELY DERIVED SYSTEM (GENERATOR SERVING MULTIPLE BUILDINGS/STRUCTURES FOR EXAMPLE) PROVIDE PROPER GROUNDING AND USE 4-POLE TRANSFER SWITCHES AS REQUIRED BY NEC 250.
35. TELEPHONE SYSTEM
   a. TELEPHONE WIRING AND SYSTEM PROVIDED BY OWNER. VERIFY SYSTEM REQUIREMENTS AND ROUGH-IN LOCATIONS WITH OWNER PRIOR TO START OF CONSTRUCTION. ELECTRICAL CONTRACTOR SHALL PROVIDE PLASTER RING AND PULL STRING FROM EACH DEVICE LOCATION TO ABOVE ACCESSIBLE CEILING.
36. SECURITY SYSTEM NOTES
   a. SECURITY WIRING AND SYSTEM PROVIDED BY OWNER. VERIFY SYSTEM REQUIREMENTS AND ROUGH-IN LOCATIONS WITH OWNER PRIOR TO START OF CONSTRUCTION. PROVIDE POWER FOR OWNER'S HEAD-END EQUIPMENT AND REMOTE POWER FOR SECURE DOORS AS REQUIRED.
37. DATA/POS/A-V/SYSTEM NOTES
   a. DATA, POS AND/OR A-V WIRING AND SYSTEMS PROVIDED BY OWNER. VERIFY SYSTEM REQUIREMENTS AND ROUGH-IN LOCATIONS WITH OWNER PRIOR TO START OF CONSTRUCTION. ELECTRICAL CONTRACTOR SHALL PROVIDE PLASTER RING AND PULL STRING FROM EACH DEVICE LOCATION TO ABOVE ACCESSIBLE CEILING.
38. FIRE ALARM SYSTEM
   a. FIRE ALARM SYSTEM TO BE DESIGN-BUILD BY CONTRACTOR. CONTRACTOR SHALL PROVIDE ALL REQUIRED DRAWINGS AND SUBMIT TO AUTHORITIES. REFER TO ARCHITECT'S CODE SHEET FOR RELEVANT DESIGN CRITERIA. **SUBMIT DRAWINGS TO OWNER/ARCHITECT FOR REVIEW PRIOR TO SUBMITTING TO AUTHORITIES. PROVIDE REQUIRED ITEMS INCLUDING BUT NOT LIMITED TO RELAY MODULES, MONITOR MODULES, RETURN-AIR DETECTORS, ELEVATOR RECALL, ETC. PROVIDE REMOTE ANNUNCIATOR PANEL(S) AT LOCATION(S) APPROVED BY ARCHITECT AND AUTHORITIES.**
   b. PREFERRED SYSTEM SHALL BE KIDDE FX SERIES INTELLIGENT AND/OR CONVENTIONAL FIRE ALARM SYSTEMS (WHICHEVER PERTAINS TO THE PROJECT). COORDINATE SYSTEM WITH OWNER, ARCHITECT, AND FIRE ALARM CONSULTANT PRIOR TO CONSTRUCTION.

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Certification:

Consultant Logo:
BID SET
09.13.2024

Key Plan:

PR - 10665

ENGINEERED BUILDING SYSTEMS INC.
Shared Success Through Collaboration and Efficiency
515 Monmouth Street, Suite 201
Newport, KY 41071 (859) 261-0585
MEP Consulting Services, Inc. in OH

PAUL R. SPRONG
REGISTERED
PE11200556
STATE OF INDIANA
PROFESSIONAL ENGINEER

THE LANDING 3.0

NEW CONSTRUCTION
Columbia St., Indiana

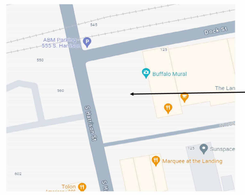
REVISION		
No.	Date	Revision

DRAWING CONTENTS:
ELECTRICAL SPECIFICATIONS

ISSUE DATE: 09-03-24
PROJECT NO: 10665
DRAWING NO.
E-500

RADON MITIGATION SYSTEM

THE LANDING 3.0
555 S. HARRISON STREET, FORT WAYNE, IN 46802



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R4	Second Through Fifth Floor Plan
R5	Sixth Floor Plan
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WESTECH Environmental Solutions
8090 Furlong Drive
Cleves, Ohio 45002
Telephone : 513.353.0700

Source: MKM Architecture + Design, 07/16/2024

Notes:

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The Landing 3.0

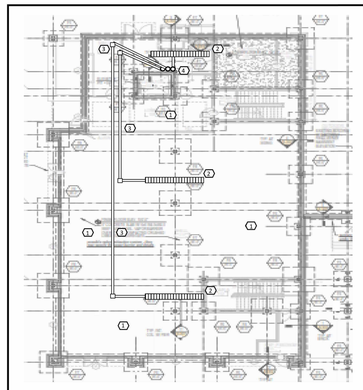
General Information

Radon Mitigation System

555 S. Harrison Street

Fort Wayne, IN 46802

Project No.	Date:	Rev.
24.1152.100	August 26, 2024	0
		Sheet: R1



WESTECH Environmental Solutions
8090 Furlong Drive
Cleves, Ohio 45002
Telephone : 513.353.0700

Source: MKM Architecture + Design, 07/16/2024

Notes:

(1) A 15-mil (minimum) vapor barrier meeting ASTM E1745 Class A, B, or C must be installed over the three-dimensional vent core (see note 2) and across the building floor. The vapor barrier must be sealed a minimum of twelve inches at the seams and sealed. All pipes and conduits penetrating the vapor barrier must be sealed and the vapor barrier must be sealed to the perimeter

(2) A three-dimensional vent core wrapped in a non-woven, needle-punched filter fabric installed across the footprint of the sub-slab aggregate. The vent core must measure 12 inches wide and 1 inch deep and must comply with the following specifications:

Core Required	Minimum Compressive Strength	Flow Capacity	Minimum Tensile Strength
Three-dimensional	5 psi - 10 psi	0.3 cfm at 0.5 inch water gauge	10 lbs/in (1.75 kN/m)
Durable	10% or less loss	Must handle 10 lbs/in² (70 kPa) of soil load	10% or less loss
Durable for soil gases	5 years or more	Must handle 10 lbs/in² (70 kPa) of soil load	50% or less loss
Durable for radon gases	50 years or more	Must handle 10 lbs/in² (70 kPa) of soil load	50 years (10% loss)

(3) Install 3-inch PVC Schedule 40 pipe horizontally in sub-slab aggregate with appropriate slope to allow for drainage of condensate to extraction. Terminate end of pipe under vent core.

(4) Use 90° PVC fitting to connect horizontal 3-inch PVC Schedule 40 pipe to vertical section of 3-inch PVC Schedule 40 pipe installed vertically through concrete slab and extending 24 inches above floor. Install a screened PVC cap on pipe riser, and label riser "radon."

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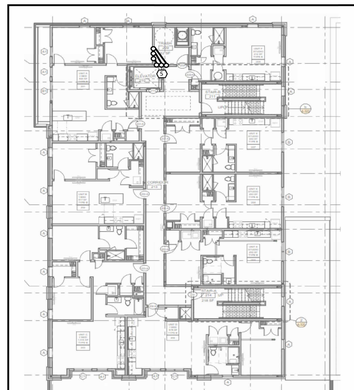
Foundation Plan and Detail

Radon Mitigation System

555 S. Harrison Street

Fort Wayne, IN 46802

Project No.	Date:	Rev.
24.1152.100	August 26, 2024	0
		Sheet: R2



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8090 Furlong Drive
Cleves, Ohio 45002
Telephone : 513.353.0700

Source: MKM Architecture + Design, 07/16/2024

Notes:

(5) Following the framing of the structure, install 3" Sched. 40 PVC riser pipes in trash room wall along north side of elevator shaft to above ceiling height. Extend riser pipe horizontally in between floor trusses to below location of wall above. Install rod plates, pipe support, and fire stop at location of wall above. Install rod plates, pipe support, and fire stop as necessary to comply with applicable codes. Coordinate installation of riser pipe with MEP contractors.

(6) Following the installation of the steel beams supporting the second floor but prior to the placement of the steel reinforcing and concrete on the second floor, install 4" sleeves in the floor. The sleeves in the location where the radon risers will be placed. Coordinate installation of riser pipe with MEP and concrete contractors.

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First Floor Plan

Radon Mitigation System

555 S. Harrison Street

Fort Wayne, IN 46802

Project No.	Date:	Rev.
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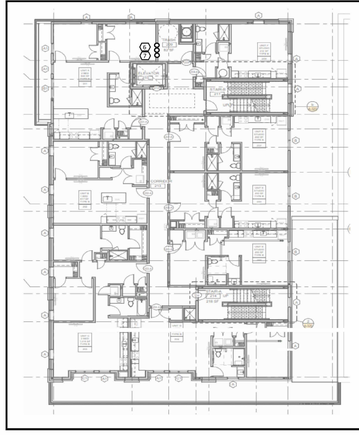

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8090 Furlong Drive
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Telephone : 513.353.0700

Source: MKM Architecture + Design, 07/16/2024

Notes:

(7) Install 3" Sched. 40 PVC riser pipe vertically through the wall cavity separating the trash room from the unit to the west and into the floor above. Attach riser pipe using pipe hangers and/or riser clamps as necessary to support pipe. Install rod plates, pipe support, and fire stop as necessary to comply with applicable codes. Coordinate installation of riser pipe with MEP contractors.

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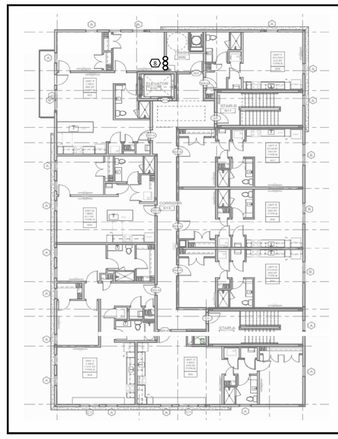
Second Through Fifth Floor Plan

Radon Mitigation System

555 S. Harrison Street

Fort Wayne, IN 46802

Project No.	Date:	Rev.
24.1152.100	August 26, 2024	0
		Sheet: R4



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8090 Furlong Drive
Cleves, Ohio 45002
Telephone : 513.353.0700

Source: MKM Architecture + Design, 07/16/2024

Notes:

(8) Install 3" Sched. 40 PVC riser pipe vertically through the wall separating the trash room from the unit to the west and into the floor above. Attach riser pipe using pipe hangers and/or riser clamps as necessary to support pipe. Install rod plates, pipe support, and fire stop as necessary to comply with applicable codes. Coordinate installation of riser pipe with MEP contractors.

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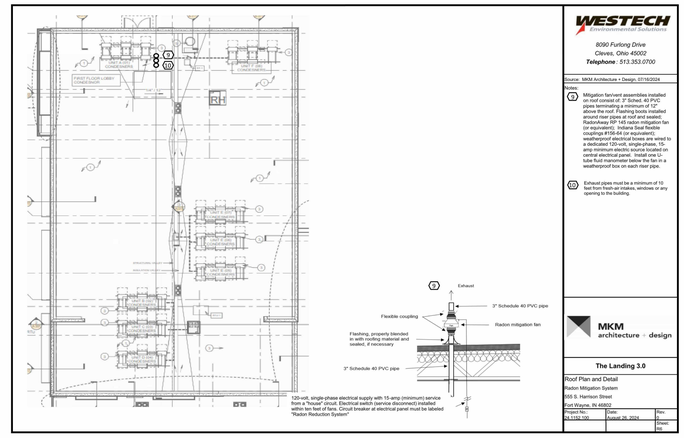
Sixth Floor Plan

Radon Mitigation System

555 S. Harrison Street

Fort Wayne, IN 46802

Project No.	Date:	Rev.
24.1152.100	August 26, 2024	0
		Sheet: R5



120-volt, single-phase electrical supply with 15-amp (minimum) service from a "house" circuit. Electrical switch (service disconnect) installed within ten feet of fans. Circuit breaker at electrical panel must be labeled "Radon Reduction System"

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Telephone : 513.353.0700

Source: MKM Architecture + Design, 07/16/2024

Notes:

(9) (10) Mitigation fan/vent assemblies installed on roof consist of: 3" Sched. 40 PVC pipes terminating a minimum of 12" above the roof. The pipes shall be sealed around riser pipes at roof and sealed. RadonAway RP 145 radon mitigation fan (or equivalent). Indiana Seal flexible couplings #158-64 (or equivalent). Mitigation fan/vent assembly shall be wired to a dedicated 120-volt, single-phase, 15-amp minimum electric source located on central electrical panel. Install one U-tube fluid manometer below the fan in a weatherproof box on each riser pipe.

(10) Exhaust pipes must be a minimum of 10-feet from fresh-air intakes, windows or any opening to the building.

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Roof Plan and Detail

Radon Mitigation System

555 S. Harrison Street

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Project No.	Date:	Rev.
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		Sheet: R6

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Certification:

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Key Plan:

THE LANDING 3.0

NEW CONSTRUCTION
555 S. HARRISON ST.
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REVISION

No.	Date	Revision

DRAWING CONTENTS:
RADON MITIGATION SYSTEM

ISSUE DATE: 09.13.2024
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DRAWING NO.
R-100