1806 REPUBLIC ST. CINCINNATI, OHIO, 45202

FINDLAY FLATS

STRUCTURAL ENGINEER

ADVANTAGE GROUP

1527 MADISON ROAD, FL 2

CINCINNATI, OH 45206

(513) 396-8900

S130 STRUCTURAL PLANS

S200 STRUCTURAL ELEVATIONS

MEP ENGINEER

ENGINEERED BUILDING SYSTEMS, INC. 515 MONMOUTH STREET, SUITE 201 NEWPORT, KY 41071 (859) 261-0585

CIVIL ENGINEER

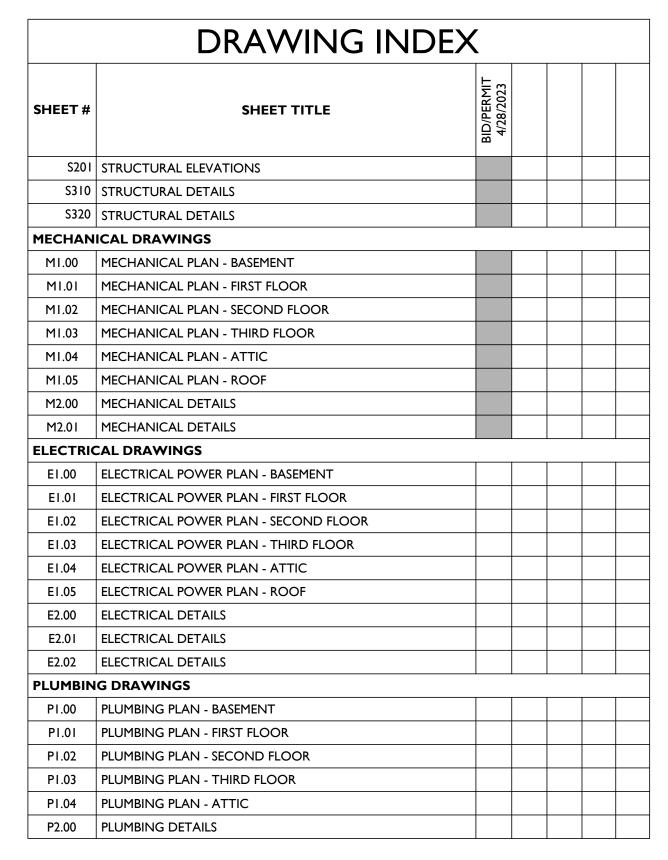
ARCHITECT

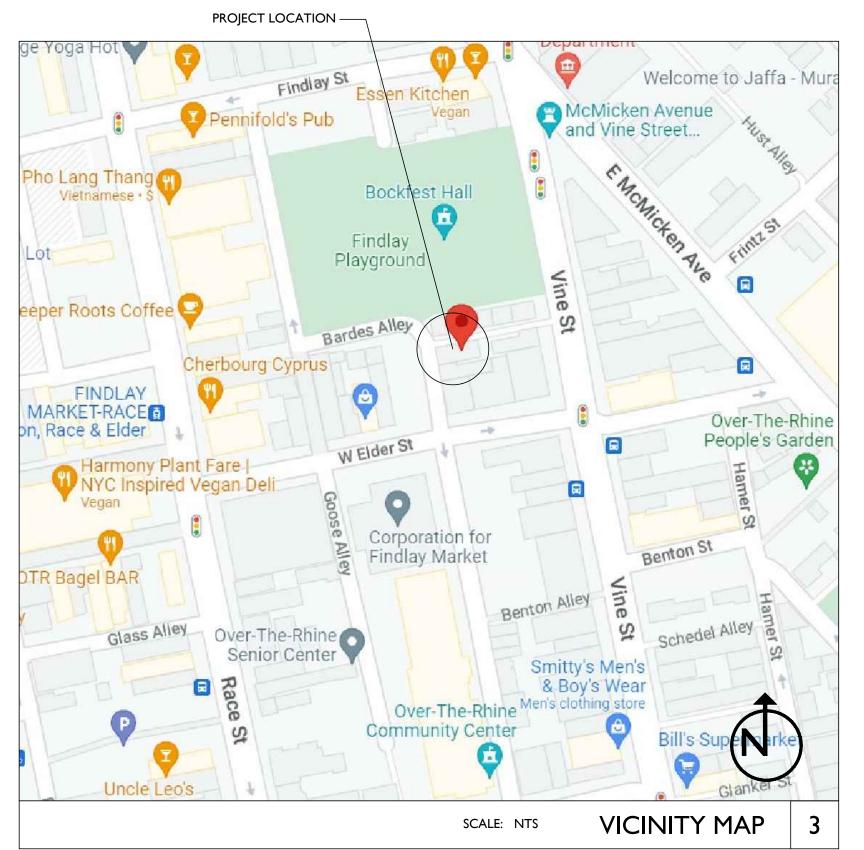
CLIENT/DEVELOPER

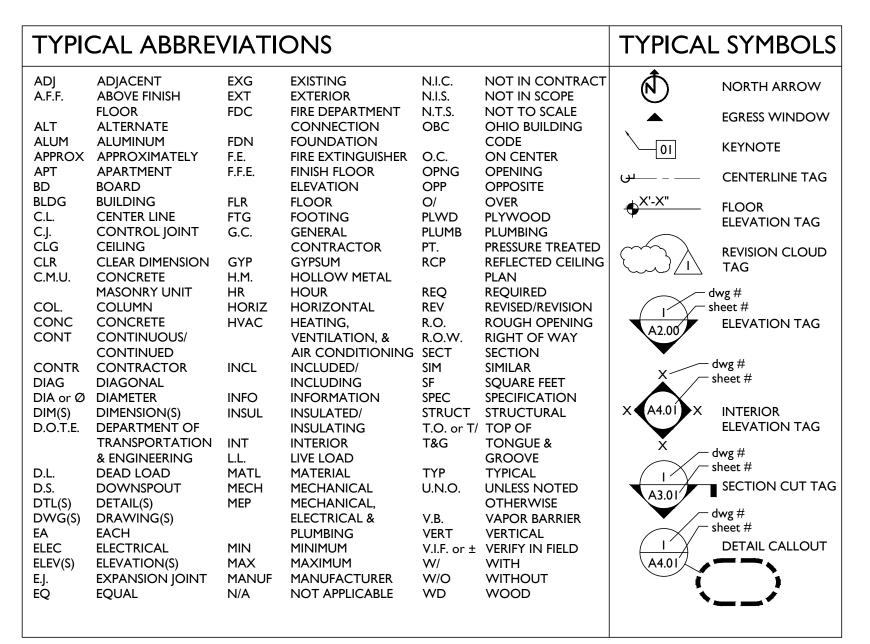
BAYER BECKER PLATTE DESIGN 1404 RACE STREET, SUITE 204 1810 CAMPBELL ALLEY, STE 300 CINCINNATI, OH 45202 CINCINNATI, OH 45202 (513) 336-6600 (513) 871-1850

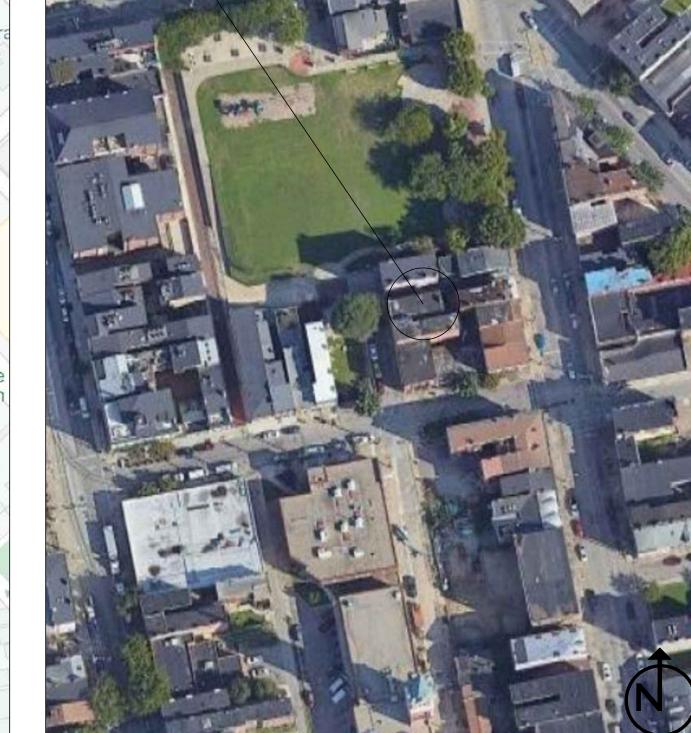
1203 WALNUT STREET CINCINNATI, OH 45202 (513) 621-4400

DRAWING INDEX SHEET# SHEET TITLE **GENERAL DRAWINGS** A0.01 | EGRESS DIAGRAMS & CODE SUMMARY CIVIL/LANDSCAPE DRAWINGS CI.00 SITE SURVEY & EXG. CONDITIONS C2.00 PROPOSED SITE PLAN C3.00 PROPOSED GRADING PLAN **ARCHITECTURAL DRAWINGS** ADI.00 BASEMENT DEMOLITION PLAN ADI.01 FIRST FLOOR DEMOLITION PLAN ADI.02 | SECOND FLOOR DEMOLITION PLAN ADI.03 THIRD FLOOR DEMOLITION PLAN ADI.04 FOURTH FLOOR DEMOLITION PLAN ADI.05 | FIFTH FLOOR DEMOLITION PLAN AD2.00 EAST DEMOLITION ELEVATION AD2.01 | SOUTH DEMOLITION ELEVATION AD2.02 WEST DEMOLITION ELEVATION AD2.03 NORTH DEMOLITION ELEVATION A1.00 GENERAL NOTES A1.10 PROPOSED BASEMENT PLAN AI.II PROPOSED FIRST FLOOR PLAN A1.12 PROPOSED SECOND FLOOR PLAN A1.13 PROPOSED THIRD FLOOR PLAN A1.14 PROPOSED FOURTH FLOOR PLAN A1.15 PROPOSED ROOF PLAN A1.20 BASEMENT RCP A1.21 FIRST FLOOR RCP A1.22 SECOND FLOOR RCP THIRD FLOOR RCP A1.23 FOURTH FLOOR RCP PROPOSED EAST ELEVATION A2.11 PROPOSED SOUTH ELEVATION PROPOSED WEST ELEVATION A2.13 PROPOSED NORTH ELEVATION A3.00 STAIR DETAILS A4.00 FINISH SCHEDULE & PLANS A4.10 INT ELEV A5.00 DETAILS A6.00 ASSEMBLIES A6.01 ASSEMBLIES A6.02 DETAILS A6.10 DOOR SCHEDULE A6.11 DOOR TYPES & DETAILS A6.20 WINDOW AT BI A9.01 EGC SPECS A9.02 EGC SPECS EGC SPECS A9.04 EGC SPECS **STRUCTURAL DRAWINGS** S001 STRUCTURAL NOTES SIIO STRUCTURAL PLANS S120 STRUCTURAL PLANS









AERIAL IMAGE



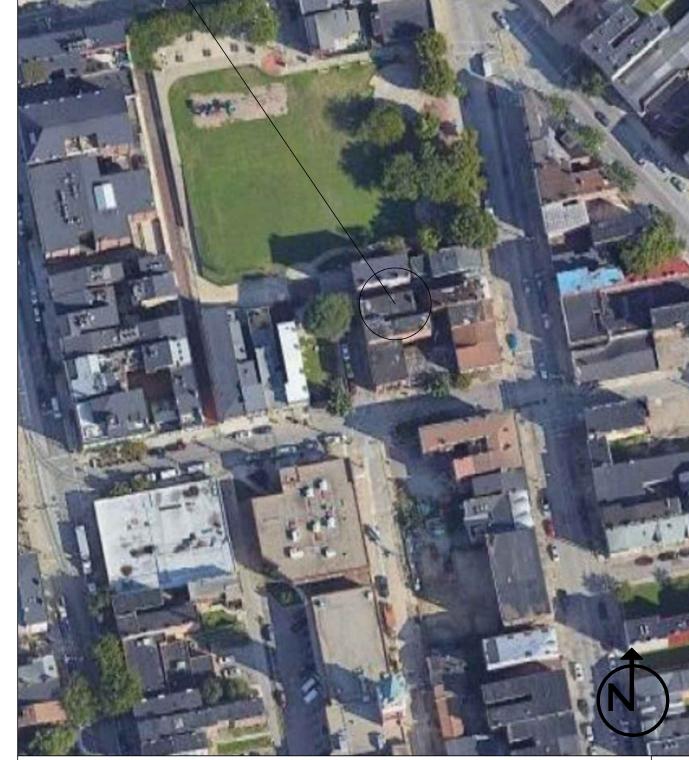
RENOVATION

PROJECT DESCRIPTION

EXCEPTION OF MECHANICAL EQUIPMENT. ALL FLOORS WILL REMAIN USE R-2 APARTMENTS.

INCLUDE INTERIOR PARTITION WALLS, KITCHENS, BATHROOMS, FINISHES, AND MECHANICAL SYSTEMS. THIS PROJECT HAS BEEN SUBMITTED FOR HISTORIC TAX CREDITS WITH THE STATE HISTORIC PRESERVATION OFFICE AND NATIONAL PARK SERVICE, AND THEREFORE WILL BE DICTATED BY CHAPTER 34, SECTIONS 3-11 AND

SCALE: NTS



UB 8 Job No: 22042 04/28/2023

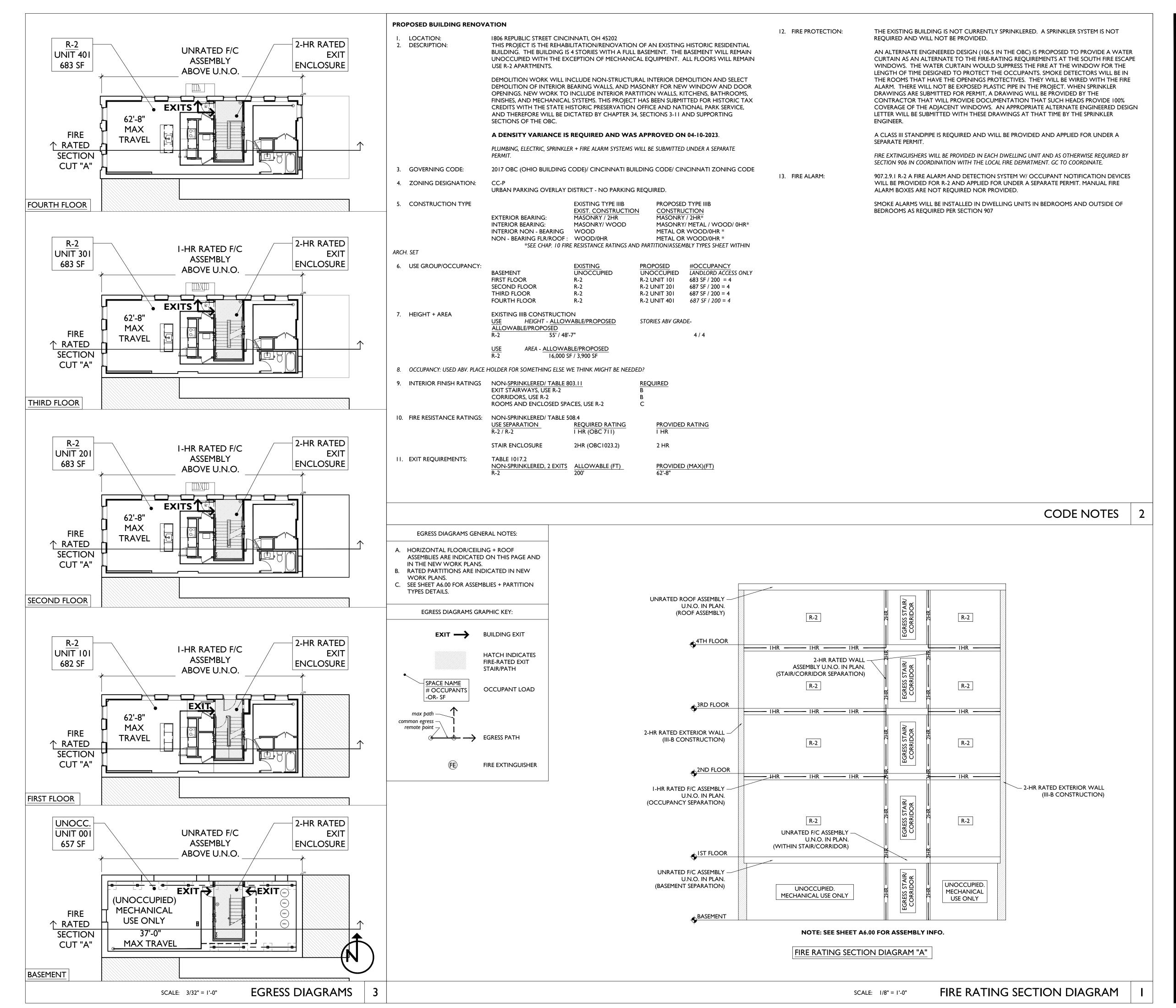
KURT PLATTE 10833 EXP DATE 12.31.2023

Design Team:
CO, JK, MR, MR, RK, RO, SO, TB

2023.04.28 - BID/PERMIT

Progress Dates

Drawn by: MR, AM



PLAT TE

KURT PLATTE 10833

KURT PLATTE 10833 EXP DATE 12.31.2023 Progress Dates 2023.04.28 - BID/PERMIT

Revisions

Design Team:
CO, JK, MR, MR, RK, RO, SO, TB

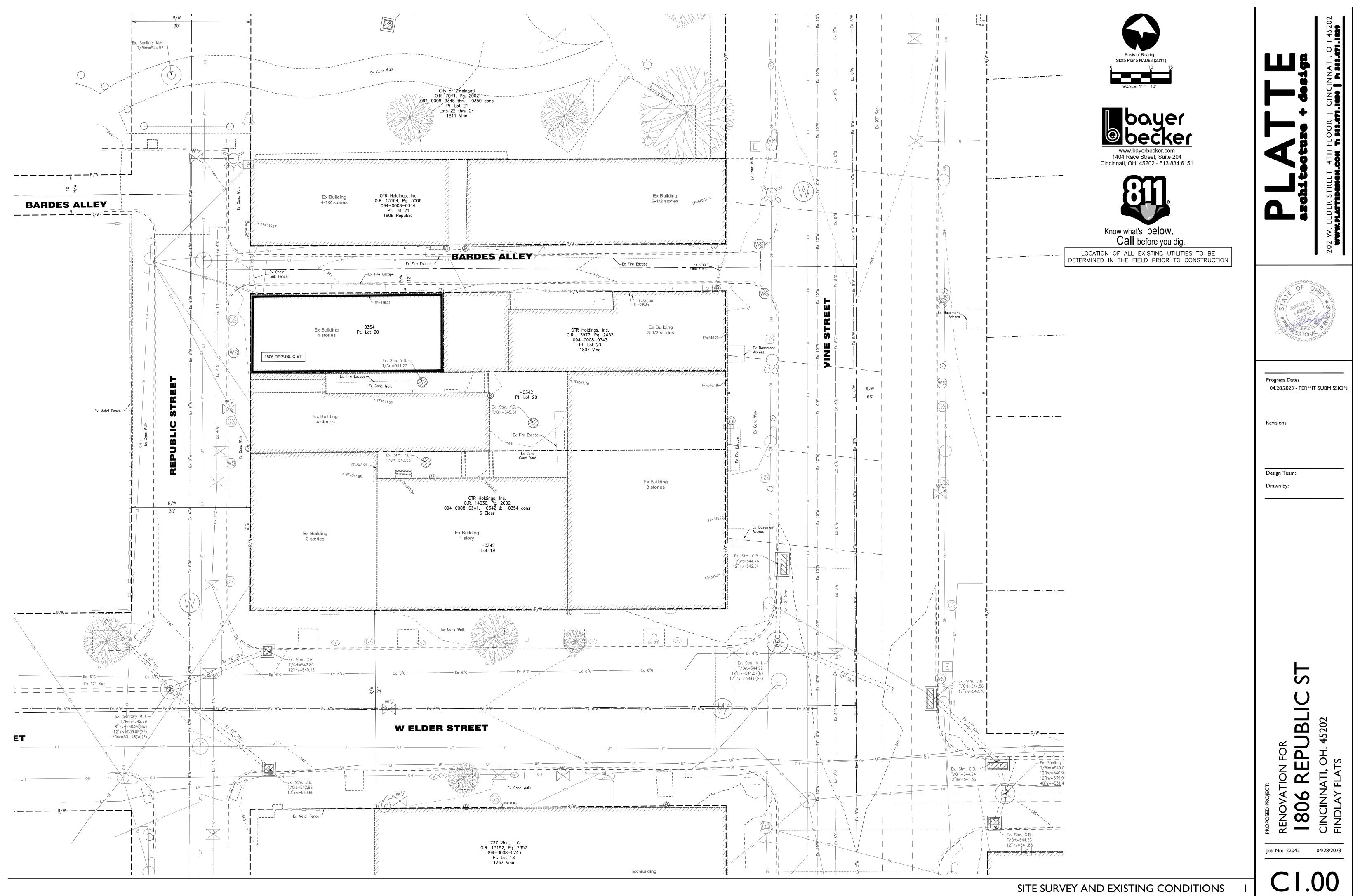
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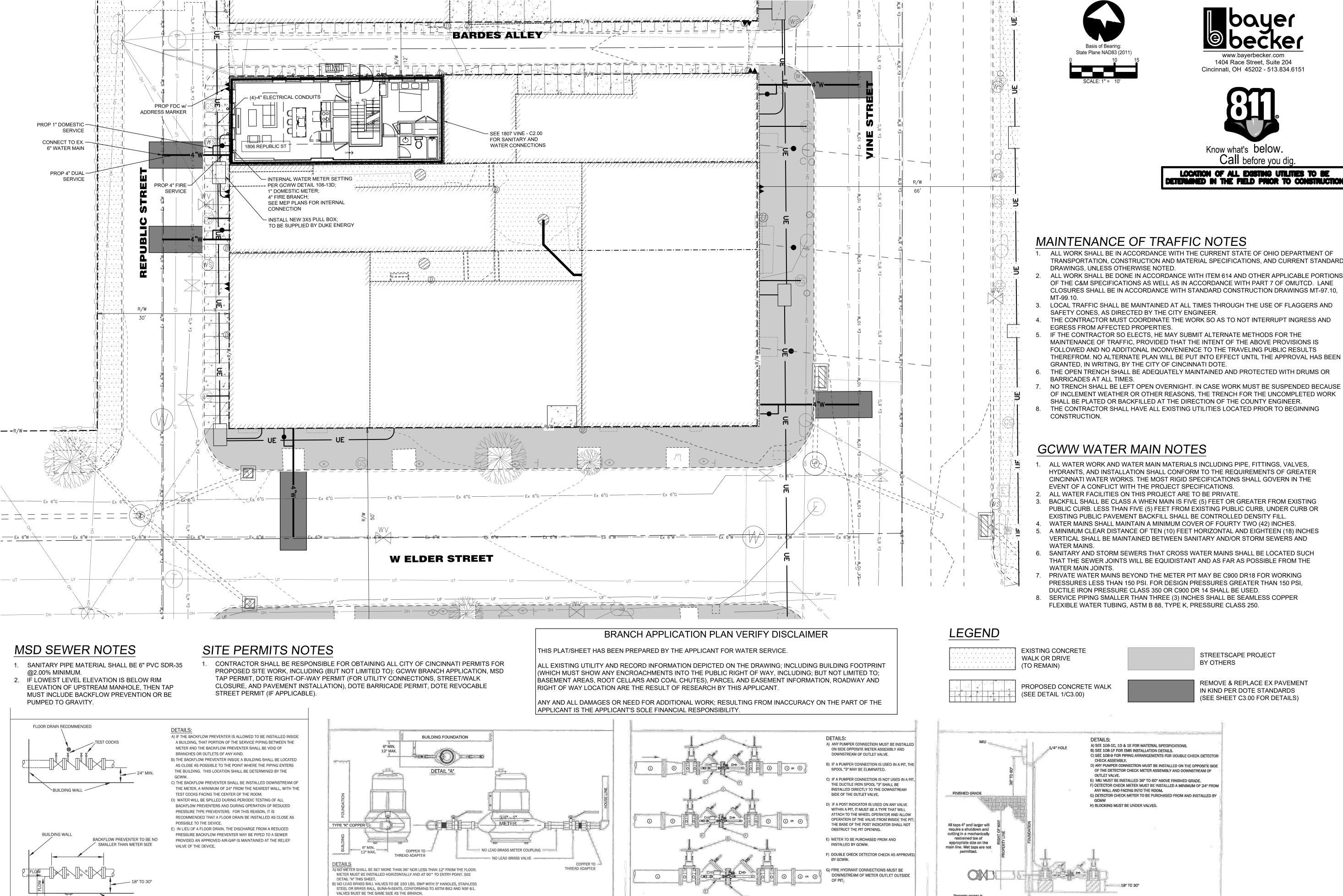
> ON FOR **REPUBLIC** OH, 45202

RENOVATION STORY OF THE STORY O

Job No: 22042 04/28/2023

A0.0





1) FLANGED BY PLAIN END ADAPTER

4) FLANGED BY MECHANICAL JOINT (OPTIONAL)

PIPING ARRANGEMENT

DOUBLE CHECK DETECTOR CHECK

WORKS 1/4/13 108-9

ASSEMBLY

2) FLANGED REDUCING SPOO

3) FLANGED SPOOL, 12" LONG

5) VALVES MUST BE OS & Y

INSIDE EMR METER SETTING

3/4" AND 1" METERS - COUPLING

WATER

;) LAYING LENGTH OF METERS; 3/4" METER IS 9", 1" METER IS 10 3/4".

BETWEEN THE INLET VALVE AND THE STREET.

RUNNING WIRE, SEALED WITH A FLEXIBLE SEALANT.

BRANCH REPLACEMENT OCCURS.

H) SEE 108-1D FOR DETAILS.

GENERAL BACKFLOW SETTINGS

INSIDE SETTING

OF BACKFLOW PREVENTER

CINCINNAT

FLOOR DRAIN RECOMMENDED

D) METER MUST BE SEALED BY WATER WORKS PERSONNEL OR AUTHORIZED AGENT.

F) THIS SETTING IS REQUIRED WHEN AN INSIDE METER REDUCTION IS APPROVED OR

G) A 1/4" HOLE MUST BE DRILLED THROUGH THE FOUNDATION/WALL AND AFTER

E) ANY ELECTRICAL GROUND WIRE ON THE SERVICE LINE MUST BE LOCATED

Progress Dates 04.28.2023 - PERMIT SUBMISSION

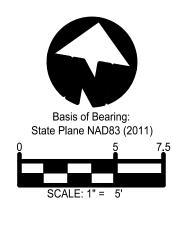
Revisions

Drawn by:

EFS

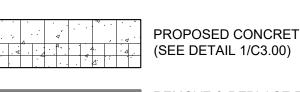
Property owner is responsible for all excavation, backfill, and estoration work per GCWW specifications. 4" OR LARGER FIRE ONLY All dead end pipe stubs See Standard Drawing GREATER
108-19 For GINCINNATI INSIDE EMR SETTING DOUBLE CHECK 108-19 For Inspection/Installation WATER DETECTOR CHECK ASSEMBLY DATE STANDARD DRAWING 108-12A

 \Box Ш 8





EXISTING CONCRETE WALK OR DRIVE (TO REMAIN)



PROPOSED CONCRETE WALK



(SEE SHEET C3.00 FOR DETAILS)

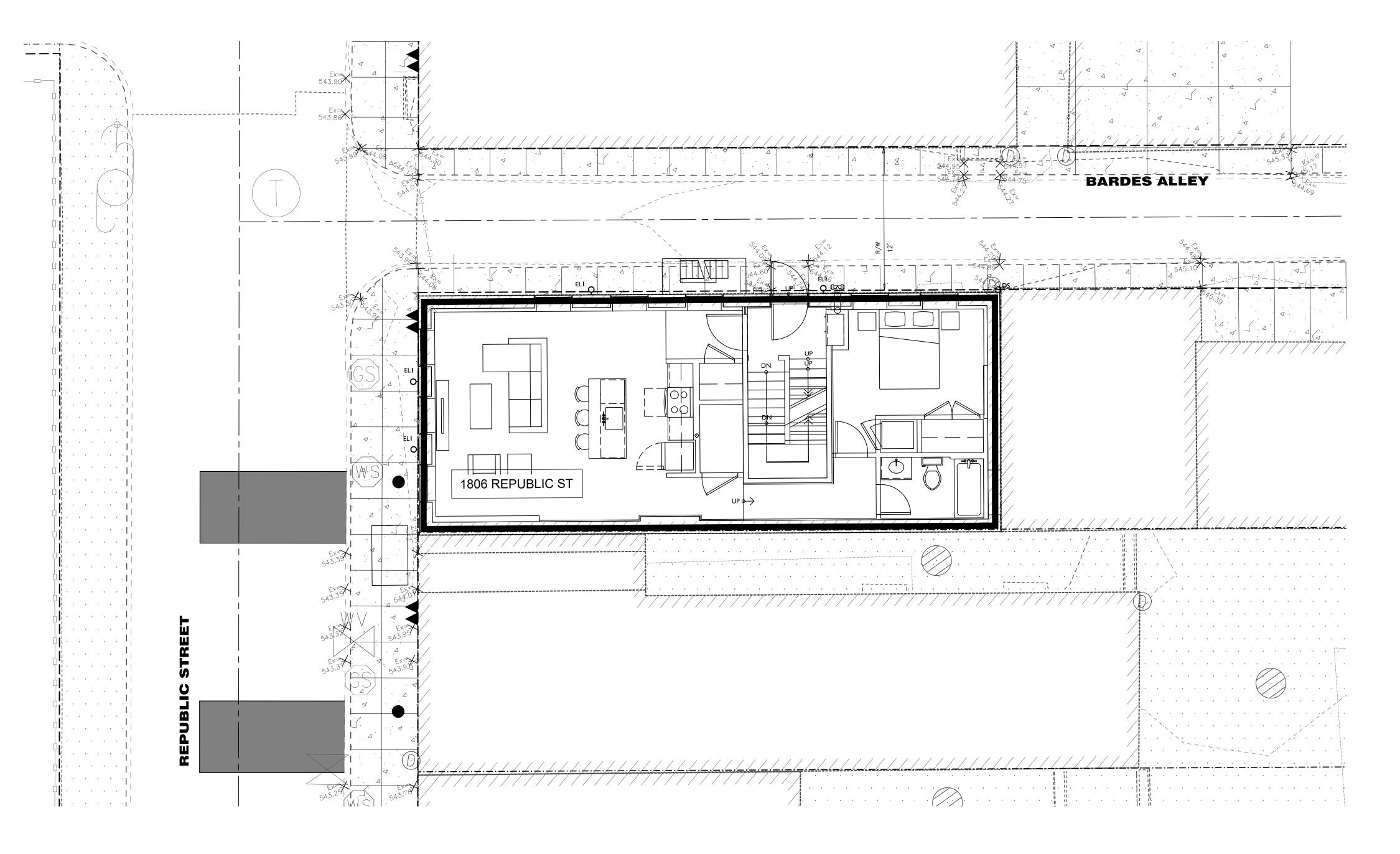
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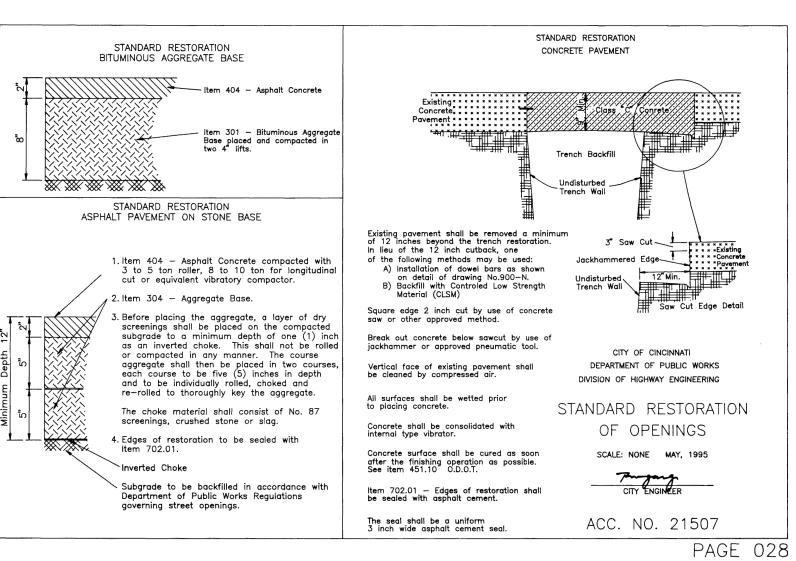
04.28.2023 - PERMIT SUBMISSION

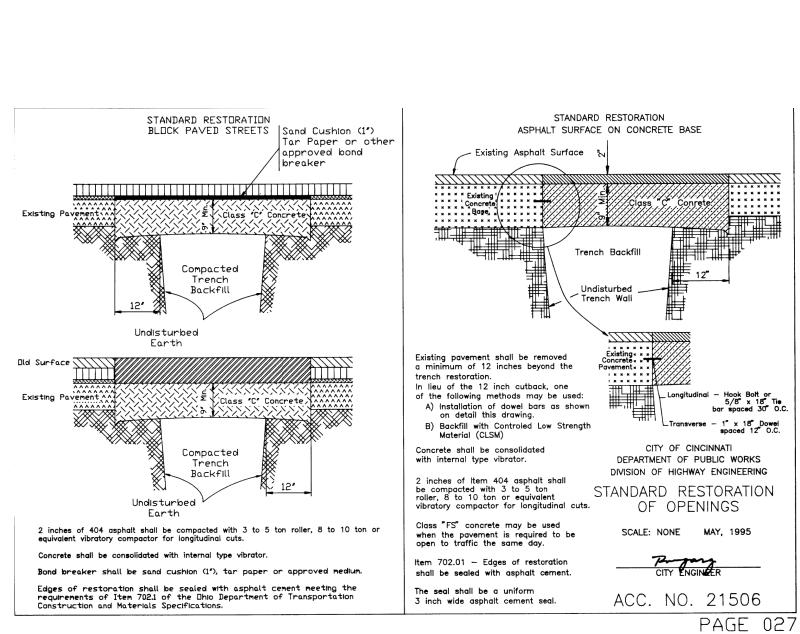
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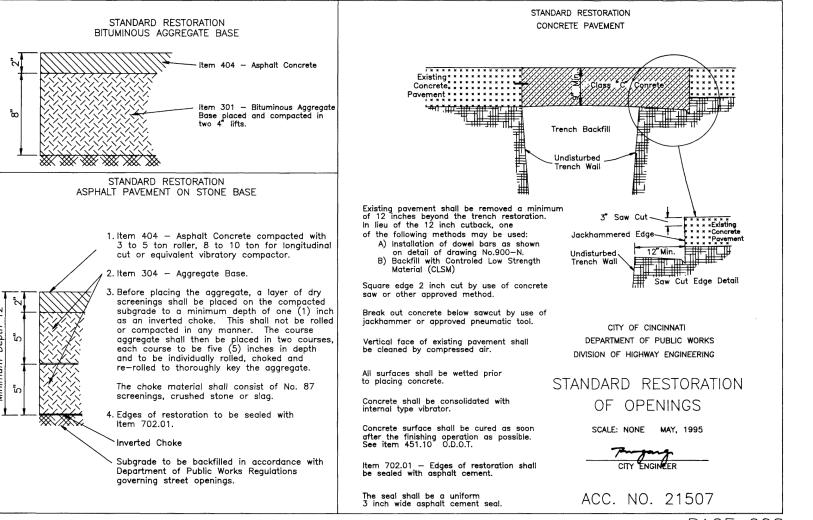
UBL 806

Job No: 22042 04/28/2023









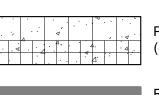




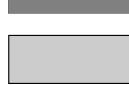
Know what's below.

Call before you dig. LOCATION OF ALL EXISTING UTILITIES TO BE DETERMINED IN THE FIELD PRIOR TO CONSTRUCTION

LEGEND



REMOVE & REPLACE EX PAVEMENT IN KIND PER DOTE STANDARDS



PER NEW CONSTRUCTION PLAN

VARIES

NEW 1/2" CELLULAR FIBER EXPANSION JOINT MATERIAL PER ODOT CMS # 516 INCIDENTAL TO CONCRETE PAVER BASE

EXISTING GRANITE CURB TO BE REMOVED & RE-SET

NEW JOINT TO BE SEALED W/ JOINT SEALER PER O.D.O.T. ITEM # 702.01

EXISTING ROADWAY PAVEMENT TO REMAIN — PATCH AS REQUIRED

MIN. 4"— MAX. 7" PER FIELD CONDITIONS —

NEW POURED CONCRETE

NEW 1" GROUT BED / SHIM <

NEW 2" DIA. SCH. 40 PVC -

CONDUIT ENCASED WITHIN (2) 3" DIA. RMC (RIGID METAL CONDUIT)

New Typical Sidewalk Section

NEW CLASS-C POURED -CONCRETE FOOTING

NEW BITUMINOUS ASPHALT — DEPTH TO MATCH EXISTING —

STREETSCAPE PROJECT BY OTHERS

EXISTING CONCRETE WALK
TO BE REMOVED AND REPLACED W/

CONSTRUCTION NOTE:
DAMAGED OR MISSING STRAIGHT
GRANITE CURBS TO BE SUPPLIED BY
CITY. PICK UP AT MILLCREEK YARD.

I. EXISTING ROADWAY

CONSTRUCTION DAMAGED DURING

CONSTRUCTION SHALL BE REPAIRED W/

A TEMPORARY PATCH IN COMPLIANCE

2. EXISTING SOIL LOCATED
BENEATH ALL NEW ITEMS SHALL BE
EXCAVATED, INSPECTED, REWORKED,
BACKFILLED, AND COMPACTED AS
REQUIRED TO INSURE PROPER BEARING
CAPACITY — TYPICAL ALL LOCATIONS.

WITH ODOT CMS ITEM # 253

C3.00

NEW 5" CLASS—C POURED CONCRETE WALK PER CITY



KEYED NOTES

KEYED NOTES ARE CATEGORIZED FOR ORGANIZATIONAL PURPOSES ONLY. NOTES MAY REQUIRE MATERIALS OR WORK IN CATEGORIES OTHER THAN WHERE THEY OCCUR. THE CONTRACTOR IS RESPONSIBLE FOR THE WORK DESCRIBED IN ALL APPLICABLE NOTES REGARDLESS OF THE CATEGORY IN WHICH THEY OCCUR.

ALL KEYED NOTES LISTED MAY NOT APPLY TO THIS SHEET.

I. GENERAL

2. EXG CONDITIONS

2.1 REPAIR/RETAIN EXG FIRE ESCAPE. 2.2 REMOVE FRAMING & SHEATHING/DECKING IN THIS AREA. SEE 9.2 REMOVE NON-HISTORIC FINISH FLOORING DOWN TO STRUCTURAL DWGS & NEW WORK PLANS.

2.3 EXG HISTORIC EXTERIOR ORNAMENT TO REMAIN (CORNICE, BRACKET, FRIEZE, ENTABLATURE, PILASTER, ETC). 2.4 EXG STRUCTURAL ELEMENTS (POSTS, BEAMS, FOOTINGS, ETC.) TO REMAIN U.N.O., TYPICAL. SEE PROPOSED

STRÚCTURAL DRAWINGS. 2.5 SEE CIVIL DRAWINGS FOR SIDEWALK/STREETSCAPE SCOPE.

3. CONCRETE

3.1 CONCRETE SLAB TO BE RETAINED.

4. MASONRY 4.1 EXG CHIMNEY TO REMAIN.

5. METALS

5.1 NOT USED.

6. WOOD, PLASTICS, AND COMPOSITES 6.1 EXG WOOD STAIR TO REMAIN IN PLACE. REMOVE

NON-HISTORIC GUARDRAIL/HANDRAIL. 6.2 REMOVE EXG NON-HISTORIC WOOD STAIR ENTIRELY.

7. THERMAL AND MOISTURE PROTECTION 7.1 REMOVE NON-HISTORIC GUTTER & DOWNSPOUTS.

7.2 REPAIR/RETAIN EXG HISTORIC CORNICE & BOX GUTTER.

7.3 REMOVE ROOF ACCESS HATCH. 7.4 REMOVE EXG MEMBRANE ROOF. CONTRACTOR TO INSPECT EXG ROOF DECKING AND REPAIR AS NEEDED.

8. OPENINGS

8.1 REMOVE NON-HISTORIC WINDOW & NON-HISTORIC FRAME ENTIRELY, BACK TO MASONRY OPENING. 8.2 NON-HISTORIC DOOR & FRAME TO BE REMOVED ENTIRELY,

BACK TO MASONRY OPENING. 8.3 NEW OPENING IN EXG HISTORIC WALL. SEE NEW WORK PLANS.

9. FINISHES

9.1 HISTORIC PLASTER AT MASONRY WALL TO REMAIN, IF POSSIBLE.

WOOD SUBFLOOR.

PRESERVATION TAX CREDIT PROJECT. **COORDINATE & CONFORM ALL WORK TO** THE APPROVED PART 2 NARRATIVE AND **AMENDMENTS. NO HISTORIC ELEMENTS** ARE TO BE REMOVED OR MODIFIED UNLESS SPECIFICALLY NOTED OTHERWISE. THROUGHOUT THIS PROJECT, HISTORIC DOORS, WINDOWS, AND INTERIOR TRIM REMAINS LARGELY

INTACT. HISTORIC ELEMENTS (TRIM, DOORS, ETC.) TO REMAIN OR BE SALVAGED FOR REUSE. B. IF UNEXPECTED HISTORIC TRIM IS UNCOVERED DURING DEMOLITION, STOP WORK AND CONTACT ARCHITECT IMMEDIATELY FOR DOCUMENTATION AND POSSIBLE SHPO/NPS

C. AT NEW OPENINGS AND MODIFICATIONS OF EXG K. EXG DOWNSPOUT TIE-IN LOCATIONS TO BE OPENINGS IN MASONRY AND EXTERIOR WALLS: I. VERIFY ANY INFILL IS NON-LOADBEARING PRIOR

TO DEMOLITION. 2. VERIFY CONDITION OF ANY EXG LINTELS. IF DAMAGED, CONTACT ARCHITECT AND STRUCTURAL ENGINEER.

3. PROVIDE SHORING AS REQUIRED. 4. TOOTH OUT AND KEY IN MASONRY SO CUT BRICK IS NOT EXPOSED, EXCEPT WHERE NOTED IN CORRIDORS.

5. EXPOSED MASONRY EDGES ARE TO BE FIRED EDGES U.N.O. D. AT COMPLETION OF DEMOLITION, ALL FLOORS SHALL BE SWEPT BROOM CLEAN.

ADDITIONAL INFORMATION REGARDING **ELEMENTS TO BE RETAINED:**

E. IN AREAS OF NEW MASONRY OPENINGS, SALVAGE HISTORIC BRICK FOR REUSE & CAREFULLY SORT AND SEPARATE HARD-FIRED FACE BRICK FROM

F. RETAIN HISTORIC EXTERIOR ORNAMENT-

CORNICES, FRIEZES, BRACKETS, ETC. G. RETAIN HISTORIC STOREFRONT ELEMENTS -COLUMNS, LINTELS, THRESHOLDS, GLAZING, ETC.

H. RETAIN HISTORIC INTERIOR WOOD TRIM -MANTLES, BASEBOARDS, CROWN MOULDING, WALL PANELS, WAINSCOTING, WINDOW FRAMES, DOOR FRAMES, ETC. AT WALLS WHERE PLASTER IS BEING REMOVED OR WHERE NEW FURRING IS

PROPOSED, CAREFULLY REMOVE & RETAIN HISTORIC TRIM. I. RETAIN HISTORIC INTERIOR AND EXTERIOR

DOORS, TRANSOMS, AND SIDELITES. . RETAIN HISTORIC WOOD WINDOW SASH, FRAMES, X. NON-HISTORIC DOWNSPOUTS & ALUMINUM BRICK MOULD AND SHUTTER HARDWARE.

REMOVE THE FOLLOWING, UNLESS NOTED

REUSED, UNO. CLEAR OF DEBRIS & REPAIR AS REQ.

OTHERWISE: L. FURNITURE & DEBRIS, INTERIOR & EXTERIOR, ALL FLOOR LEVELS, INCLUDING BASEMENT & ATTIC.

M. SUSPENDED ACOUSTICAL CEILINGS. N. NON-HISTORIC DOORS & DOOR FRAMES (SHOWN

DASHED). O. NON-HISTORIC STAIRS (SHOWN DASHED). P. PLASTER & LATH: REFER TO HISTORIC NARRATIVES FOR SPECIFIC GUIDELINES FOR PLASTER REPAIR, WHEN REQ. FOLLOW THESE GUIDELINES FOR THE REMOVAL OR RETENTION OF PLASTER AND LATH, UNO. RETAIN AND REPAIR PLASTER AT HISTORIC INTERIOR WALLS TO REMAIN. REMOVE LOOSE OR DETERIORATED PLASTER AT MASONRY WALLS. Q. ROOFING DOWN TO EXG. SUBSTRATE, U.N.O. REPLACE DAMAGED/DETERIORATED SUBSTRATE AS

NEW PLYWOOD SUBFLOOR, SEE PROPOSED. S. NON-HISTORIC CABINETRY.

T. NON-HISTORIC WALL FINISHES, INCLUDING

PANELING AND WALLCOVERING. U. MECHANICAL SYSTEMS - BOILERS, FURNACES, CONDENSERS, DUCTS, VENTS, PANELS, ETC. BACK

TO SERVICE. V. ELECTRIC SYSTEMS - FIXTURES, SWITCHES, RECEPTACLES, WIRING, PANELS, ETC. BACK TO

W.PLUMBING SYSTEMS - FIXTURES, WATER HEATERS, DRAINS, PIPING, VENT STACKS, ETC. BACK TO SERVICE.

Z. VEGETATION.

GUTTERS, GUTTERBOARDS. Y. NON-HISTORIC VINYL AND ALUMINUM WINDOWS. RETAIN HISTORIC WOOD FRAMES & BRICKMOLD.

EXG WINDOW TO BE REMOVED EXG FLOOR OR WALL CONSTRUCTION TO BE REMOVED

EXG EXTERIOR WALL

EXG WALL/ELEMENT TO BE REMOVED

TO REMAIN

TO REMAIN

EXG INTERIOR WALL

EXG DOOR & FRAME

TO BE REMOVED

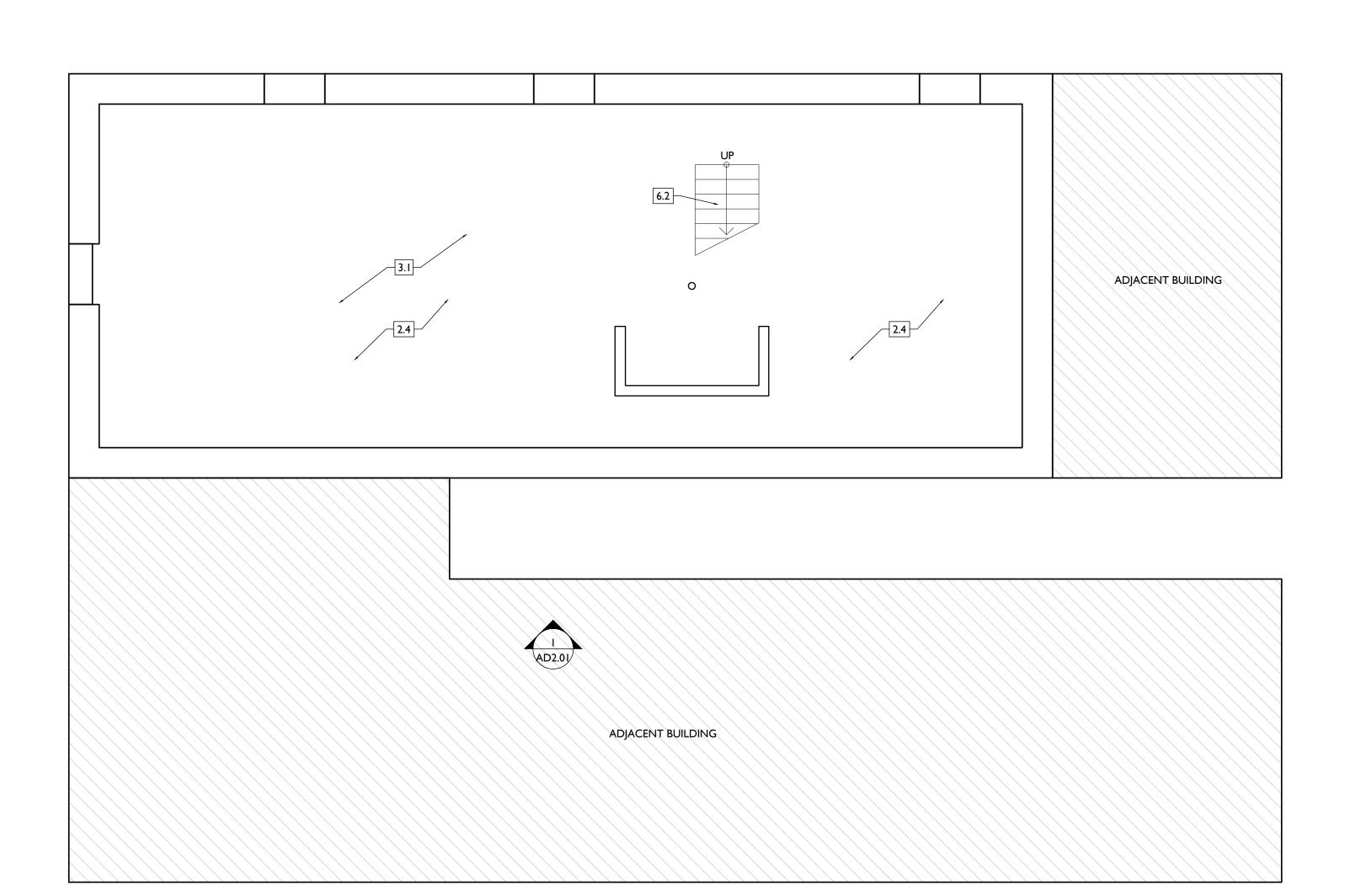
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2023.04.28 - BID/PERMIT

Revisions

Design Team:
CO, JK, MR, MR, RK, RO, SO, TB
Drawn by:
MR, AM

PUBL







I. GENERAL

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- STRÚCTURAL DRAWINGS. 2.5 SEE CIVIL DRAWINGS FOR SIDEWALK/STREETSCAPE SCOPE.
- 3. CONCRETE
- 3.1 CONCRETE SLAB TO BE RETAINED.
- 4.1 EXG CHIMNEY TO REMAIN.

5. METALS 5.1 NOT USED.

4. MASONRY

- 6. WOOD, PLASTICS, AND COMPOSITES 6.1 EXG WOOD STAIR TO REMAIN IN PLACE. REMOVE
- NON-HISTORIC GUARDRAIL/HANDRAIL. 6.2 REMOVE EXG NON-HISTORIC WOOD STAIR ENTIRELY.
- 7. THERMAL AND MOISTURE PROTECTION 7.1 REMOVE NON-HISTORIC GUTTER & DOWNSPOUTS.
- 7.2 REPAIR/RETAIN EXG HISTORIC CORNICE & BOX GUTTER.
- 7.3 REMOVE ROOF ACCESS HATCH. 7.4 REMOVE EXG MEMBRANE ROOF. CONTRACTOR TO INSPECT

8.3 NEW OPENING IN EXG HISTORIC WALL. SEE NEW WORK

9. FINISHES

PLANS.

9.1 HISTORIC PLASTER AT MASONRY WALL TO REMAIN, IF POSSIBLE.

WOOD SUBFLOOR.

SPECIFICALLY NOTED OTHERWISE. THROUGHOUT THIS PROJECT, HISTORIC DOORS, WINDOWS, AND INTERIOR TRIM REMAINS LARGELY

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4. TOOTH OUT AND KEY IN MASONRY SO CUT BRICK IS NOT EXPOSED, EXCEPT WHERE NOTED IN CORRIDORS. 5. EXPOSED MASONRY EDGES ARE TO BE FIRED

EDGES U.N.O. D. AT COMPLETION OF DEMOLITION, ALL FLOORS SHALL BE SWEPT BROOM CLEAN.

3. PROVIDE SHORING AS REQUIRED.

ADDITIONAL INFORMATION REGARDING

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V. ELECTRIC SYSTEMS - FIXTURES, SWITCHES, RECEPTACLES, WIRING, PANELS, ETC. BACK TO

W.PLUMBING SYSTEMS - FIXTURES, WATER HEATERS, DRAINS, PIPING, VENT STACKS, ETC. BACK TO SERVICE.

. RETAIN HISTORIC WOOD WINDOW SASH, FRAMES, X. NON-HISTORIC DOWNSPOUTS & ALUMINUM BRICK MOULD AND SHUTTER HARDWARE. GUTTERS, GUTTERBOARDS. Y. NON-HISTORIC VINYL AND ALUMINUM WINDOWS.

RETAIN HISTORIC WOOD FRAMES & BRICKMOLD. REUSED, UNO. CLEAR OF DEBRIS & REPAIR AS REQ. Z. VEGETATION.

REMOVE THE FOLLOWING, UNLESS NOTED

PROPOSED, CAREFULLY REMOVE & RETAIN

I. RETAIN HISTORIC INTERIOR AND EXTERIOR

DOORS, TRANSOMS, AND SIDELITES.

HISTORIC TRIM.

OTHERWISE:

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REPLACE DAMAGED/DETERIORATED SUBSTRATE AS

TO REMAIN EXG WALL/ELEMENT TO BE REMOVED

EXG DOOR & FRAME

TO BE REMOVED EXG WINDOW TO BE REMOVED

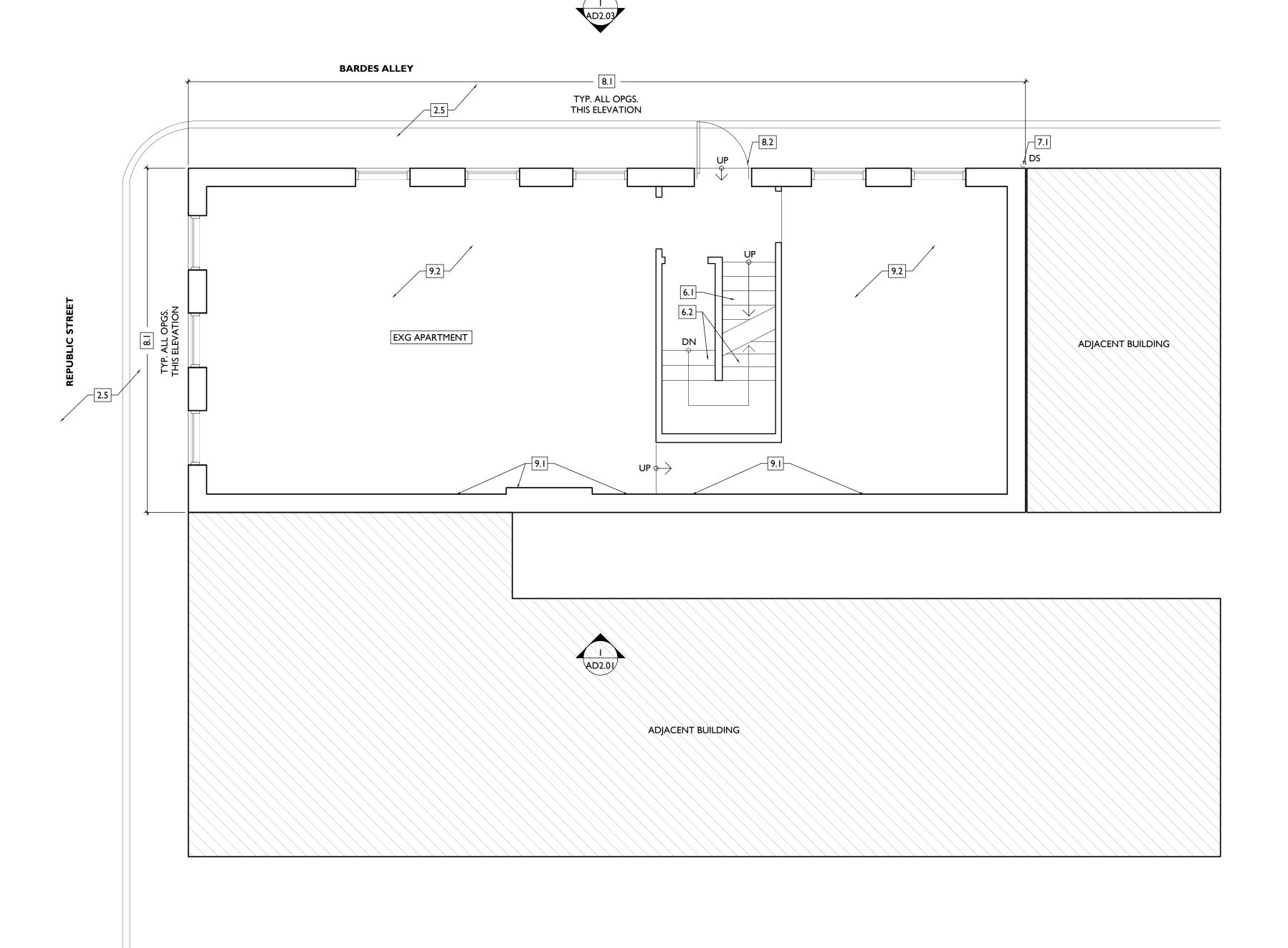
EXG FLOOR OR WALL CONSTRUCTION TO BE REMOVED

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PUBLIC





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- 3.1 CONCRETE SLAB TO BE RETAINED.
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4. MASONRY

5. METALS 5.1 NOT USED.

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EXG ROOF DECKING AND REPAIR AS NEEDED.

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- 8.1 REMOVE NON-HISTORIC WINDOW & NON-HISTORIC FRAME ENTIRELY, BACK TO MASONRY OPENING. 8.2 NON-HISTORIC DOOR & FRAME TO BE REMOVED ENTIRELY,
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9. FINISHES

9.1 HISTORIC PLASTER AT MASONRY WALL TO REMAIN, IF POSSIBLE.

WOOD SUBFLOOR.

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WINDOWS, AND INTERIOR TRIM REMAINS LARGELY INTACT. HISTORIC ELEMENTS (TRIM, DOORS, ETC.) TO REMAIN OR BE SALVAGED FOR REUSE. B. IF UNEXPECTED HISTORIC TRIM IS UNCOVERED DURING DEMOLITION, STOP WORK AND CONTACT ARCHITECT IMMEDIATELY FOR

DOCUMENTATION AND POSSIBLE SHPO/NPS C. AT NEW OPENINGS AND MODIFICATIONS OF EXG K. EXG DOWNSPOUT TIE-IN LOCATIONS TO BE OPENINGS IN MASONRY AND EXTERIOR WALLS:

- I. VERIFY ANY INFILL IS NON-LOADBEARING PRIOR TO DEMOLITION. 2. VERIFY CONDITION OF ANY EXG LINTELS. IF DAMAGED, CONTACT ARCHITECT AND STRUCTURAL ENGINEER.
- 3. PROVIDE SHORING AS REQUIRED. 4. TOOTH OUT AND KEY IN MASONRY SO CUT BRICK IS NOT EXPOSED, EXCEPT WHERE NOTED
- IN CORRIDORS. 5. EXPOSED MASONRY EDGES ARE TO BE FIRED EDGES U.N.O.
- D. AT COMPLETION OF DEMOLITION, ALL FLOORS SHALL BE SWEPT BROOM CLEAN.

ADDITIONAL INFORMATION REGARDING

ELEMENTS TO BE RETAINED: E. IN AREAS OF NEW MASONRY OPENINGS, SALVAGE HISTORIC BRICK FOR REUSE & CAREFULLY SORT AND SEPARATE HARD-FIRED FACE BRICK FROM

BRICKS AT INTERIOR WYTHES. F. RETAIN HISTORIC EXTERIOR ORNAMENT-CORNICES, FRIEZES, BRACKETS, ETC.

S. NON-HISTORIC CABINETRY. G. RETAIN HISTORIC STOREFRONT ELEMENTS -T. NON-HISTORIC WALL FINISHES, INCLUDING COLUMNS, LINTELS, THRESHOLDS, GLAZING, ETC.

PANELING AND WALLCOVERING. U. MECHANICAL SYSTEMS - BOILERS, FURNACES, MANTLES, BASEBOARDS, CROWN MOULDING, CONDENSERS, DUCTS, VENTS, PANELS, ETC. BACK TO SERVICE. WALL PANELS, WAINSCOTING, WINDOW FRAMES,

DOOR FRAMES, ETC. AT WALLS WHERE PLASTER IS V. ELECTRIC SYSTEMS - FIXTURES, SWITCHES, RECEPTACLES, WIRING, PANELS, ETC. BACK TO

W.PLUMBING SYSTEMS - FIXTURES, WATER HEATERS, DRAINS, PIPING, VENT STACKS, ETC. BACK TO SERVICE.

. RETAIN HISTORIC WOOD WINDOW SASH, FRAMES, X. NON-HISTORIC DOWNSPOUTS & ALUMINUM GUTTERS, GUTTERBOARDS.

Y. NON-HISTORIC VINYL AND ALUMINUM WINDOWS. RETAIN HISTORIC WOOD FRAMES & BRICKMOLD.

Z. VEGETATION.

REUSED, UNO. CLEAR OF DEBRIS & REPAIR AS REQ. REMOVE THE FOLLOWING, UNLESS NOTED OTHERWISE:

BEING REMOVED OR WHERE NEW FURRING IS

PROPOSED, CAREFULLY REMOVE & RETAIN

I. RETAIN HISTORIC INTERIOR AND EXTERIOR

BRICK MOULD AND SHUTTER HARDWARE.

DOORS, TRANSOMS, AND SIDELITES.

HISTORIC TRIM.

H. RETAIN HISTORIC INTERIOR WOOD TRIM -

L. FURNITURE & DEBRIS, INTERIOR & EXTERIOR, ALL FLOOR LEVELS, INCLUDING BASEMENT & ATTIC. M. SUSPENDED ACOUSTICAL CEILINGS.

N. NON-HISTORIC DOORS & DOOR FRAMES (SHOWN DASHED).

O. NON-HISTORIC STAIRS (SHOWN DASHED). P. PLASTER & LATH: REFER TO HISTORIC NARRATIVES FOR SPECIFIC GUIDELINES FOR PLASTER REPAIR, WHEN REQ. FOLLOW THESE GUIDELINES FOR THE REMOVAL OR RETENTION OF PLASTER AND LATH, UNO. RETAIN AND REPAIR PLASTER AT HISTORIC INTERIOR WALLS TO REMAIN. REMOVE LOOSE OR DETERIORATED PLASTER AT MASONRY WALLS. Q. ROOFING DOWN TO EXG. SUBSTRATE, U.N.O. REPLACE DAMAGED/DETERIORATED SUBSTRATE AS R. DETERIORATED WOOD SUBFLOOR: REPLACE WITH NEW PLYWOOD SUBFLOOR, SEE PROPOSED.

KEYNOTE

EXG EXTERIOR WALL TO REMAIN EXG INTERIOR WALL

DEMO WORK GRAPHIC KEY:

TO REMAIN EXG WALL/ELEMENT TO BE REMOVED

EXG DOOR & FRAME TO BE REMOVED

EXG WINDOW TO BE REMOVED

EXG FLOOR OR WALL CONSTRUCTION TO BE REMOVED

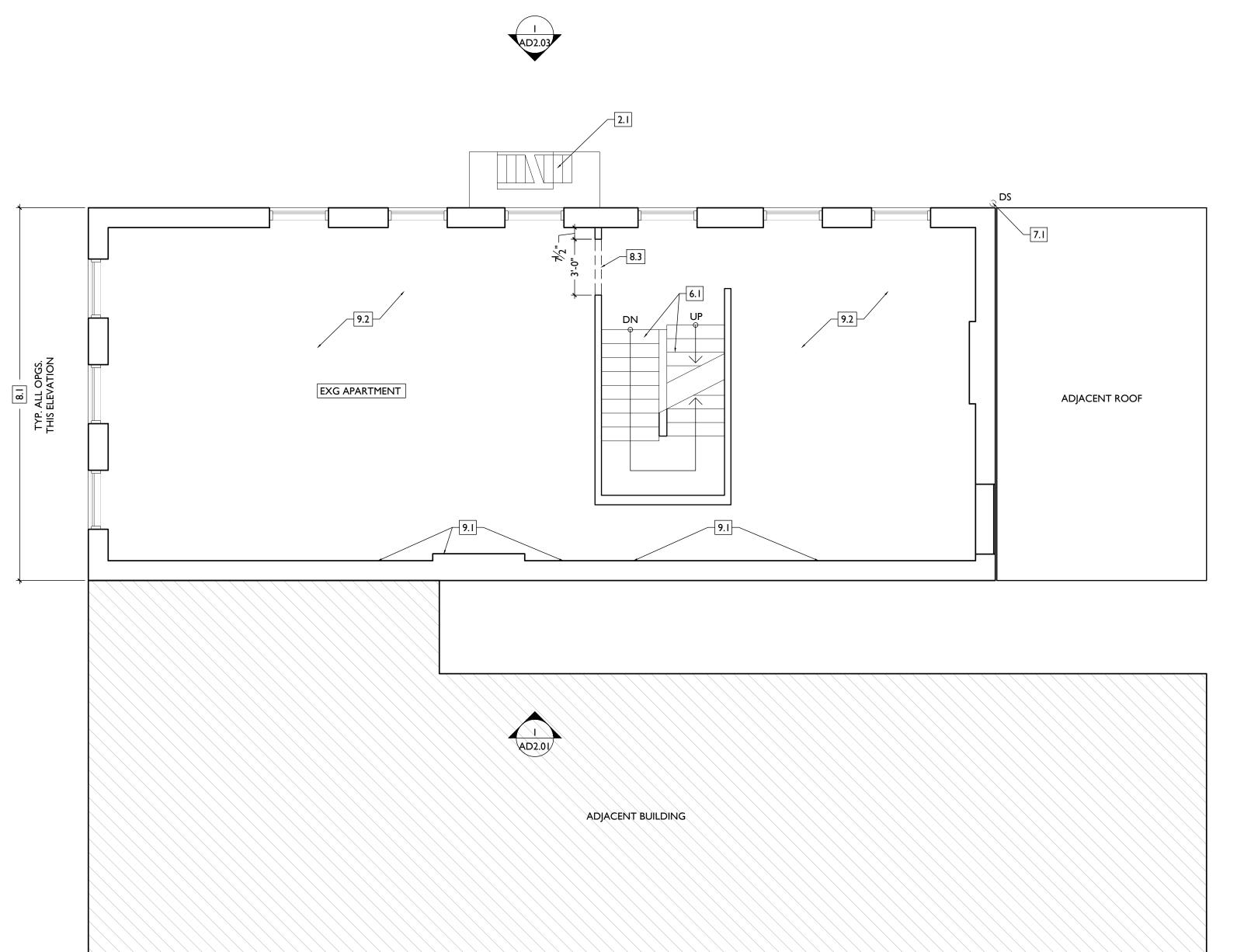
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Revisions

Design Team:
CO, JK, MR, MR, RK, RO, SO, TB
Drawn by:
MR, AM

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- I. GENERAL
- 2. EXG CONDITIONS 2.1 REPAIR/RETAIN EXG FIRE ESCAPE.
- 2.2 REMOVE FRAMING & SHEATHING/DECKING IN THIS AREA. SEE 9.2 REMOVE NON-HISTORIC FINISH FLOORING DOWN TO STRUCTURAL DWGS & NEW WORK PLANS.
- 2.3 EXG HISTORIC EXTERIOR ORNAMENT TO REMAIN (CORNICE, BRACKET, FRIEZE, ENTABLATURE, PILASTER, ETC). 2.4 EXG STRUCTURAL ELEMENTS (POSTS, BEAMS, FOOTINGS,
- ETC.) TO REMAIN U.N.O., TYPICAL. SEE PROPOSED STRÚCTURAL DRAWINGS.
- 2.5 SEE CIVIL DRAWINGS FOR SIDEWALK/STREETSCAPE SCOPE.
- 3. CONCRETE 3.1 CONCRETE SLAB TO BE RETAINED.
- 6. WOOD, PLASTICS, AND COMPOSITES
- NON-HISTORIC GUARDRAIL/HANDRAIL. 6.2 REMOVE EXG NON-HISTORIC WOOD STAIR ENTIRELY.
- 7. THERMAL AND MOISTURE PROTECTION
- 7.1 REMOVE NON-HISTORIC GUTTER & DOWNSPOUTS. 7.2 REPAIR/RETAIN EXG HISTORIC CORNICE & BOX GUTTER.
- 7.3 REMOVE ROOF ACCESS HATCH.
- 4. MASONRY 4.1 EXG CHIMNEY TO REMAIN.
- 5. METALS 5.1 NOT USED.
- 6.1 EXG WOOD STAIR TO REMAIN IN PLACE. REMOVE
- 7.4 REMOVE EXG MEMBRANE ROOF. CONTRACTOR TO INSPECT

BACK TO MASONRY OPENING. 8.3 NEW OPENING IN EXG HISTORIC WALL. SEE NEW WORK

9. FINISHES

PLANS.

- 9.1 HISTORIC PLASTER AT MASONRY WALL TO REMAIN, IF POSSIBLE.
- WOOD SUBFLOOR.

SPECIFICALLY NOTED OTHERWISE.

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5. EXPOSED MASONRY EDGES ARE TO BE FIRED

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BEING REMOVED OR WHERE NEW FURRING IS

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I. RETAIN HISTORIC INTERIOR AND EXTERIOR

BRICK MOULD AND SHUTTER HARDWARE.

REMOVE THE FOLLOWING, UNLESS NOTED

L. FURNITURE & DEBRIS, INTERIOR & EXTERIOR, ALL

N. NON-HISTORIC DOORS & DOOR FRAMES (SHOWN

P. PLASTER & LATH: REFER TO HISTORIC NARRATIVES

FOR SPECIFIC GUIDELINES FOR PLASTER REPAIR,

WHEN REQ. FOLLOW THESE GUIDELINES FOR THE

REMOVAL OR RETENTION OF PLASTER AND LATH,

UNO. RETAIN AND REPAIR PLASTER AT HISTORIC

INTERIOR WALLS TO REMAIN. REMOVE LOOSE OR

REPLACE DAMAGED/DETERIORATED SUBSTRATE AS

DETERIORATED PLASTER AT MASONRY WALLS.

Q. ROOFING DOWN TO EXG. SUBSTRATE, U.N.O.

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FLOOR LEVELS, INCLUDING BASEMENT & ATTIC.

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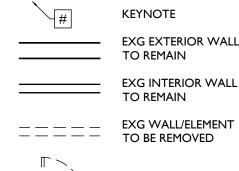
M. SUSPENDED ACOUSTICAL CEILINGS.

HISTORIC TRIM.

OTHERWISE:

DASHED).

- TO SERVICE. DOOR FRAMES, ETC. AT WALLS WHERE PLASTER IS V. ELECTRIC SYSTEMS - FIXTURES, SWITCHES, RECEPTACLES, WIRING, PANELS, ETC. BACK TO
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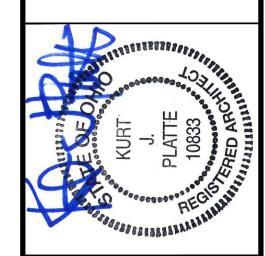


EXG INTERIOR WALL TO REMAIN

EXG DOOR & FRAME

TO BE REMOVED EXG WINDOW TO BE REMOVED

EXG FLOOR OR WALL CONSTRUCTION TO BE REMOVED



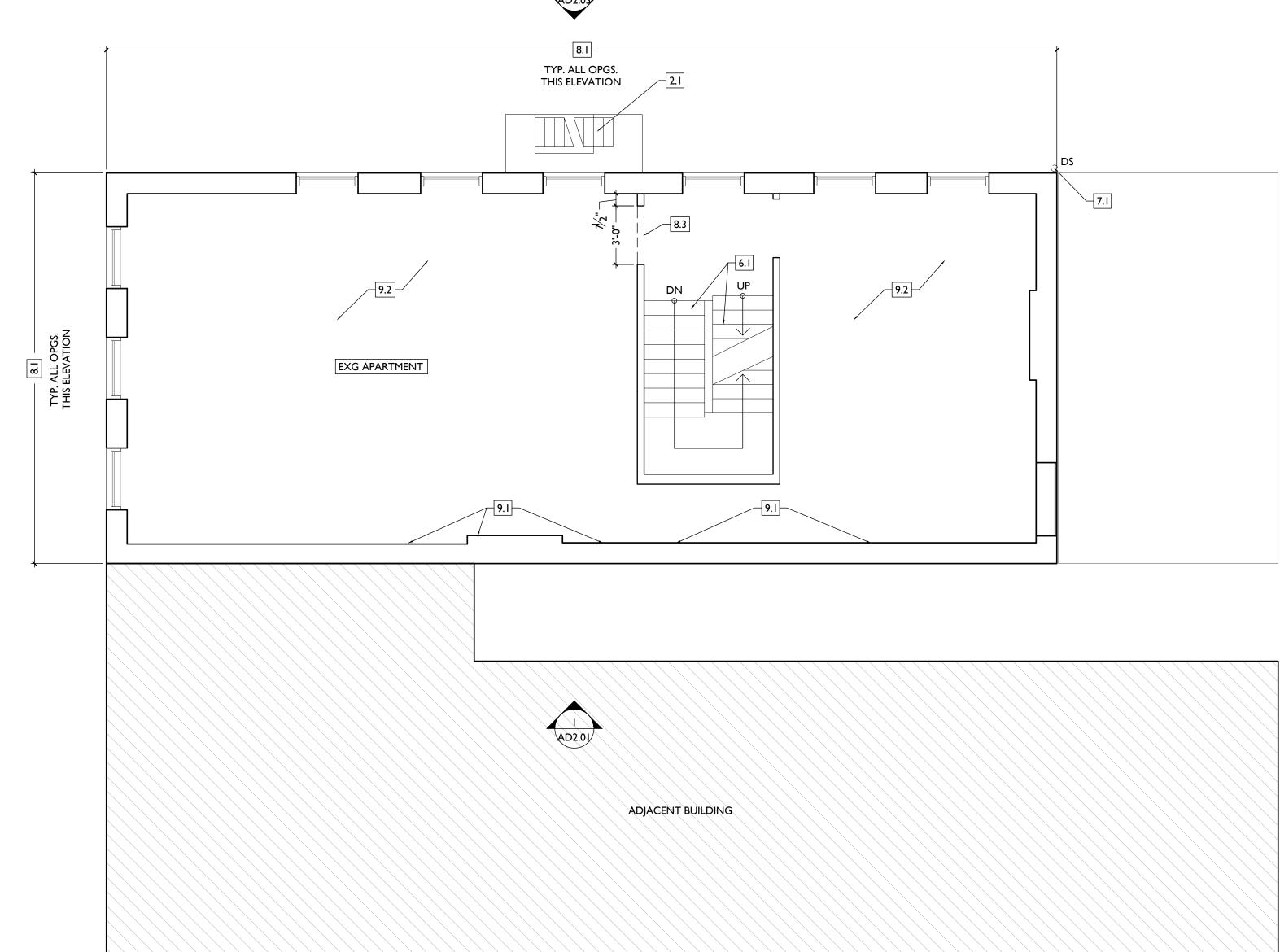
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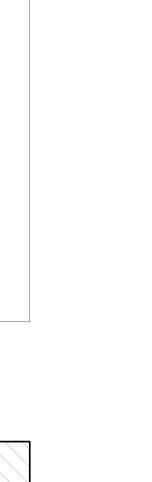
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2. EXG CONDITIONS

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- 3.1 CONCRETE SLAB TO BE RETAINED.
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- 7. THERMAL AND MOISTURE PROTECTION 7.1 REMOVE NON-HISTORIC GUTTER & DOWNSPOUTS.
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EXG ROOF DECKING AND REPAIR AS NEEDED.

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R. DETERIORATED WOOD SUBFLOOR: REPLACE WITH

NEW PLYWOOD SUBFLOOR, SEE PROPOSED.



EXG EXTERIOR WALL TO REMAIN

KEYNOTE

DEMO WORK GRAPHIC KEY:

EXG INTERIOR WALL TO REMAIN

EXG WALL/ELEMENT TO BE REMOVED

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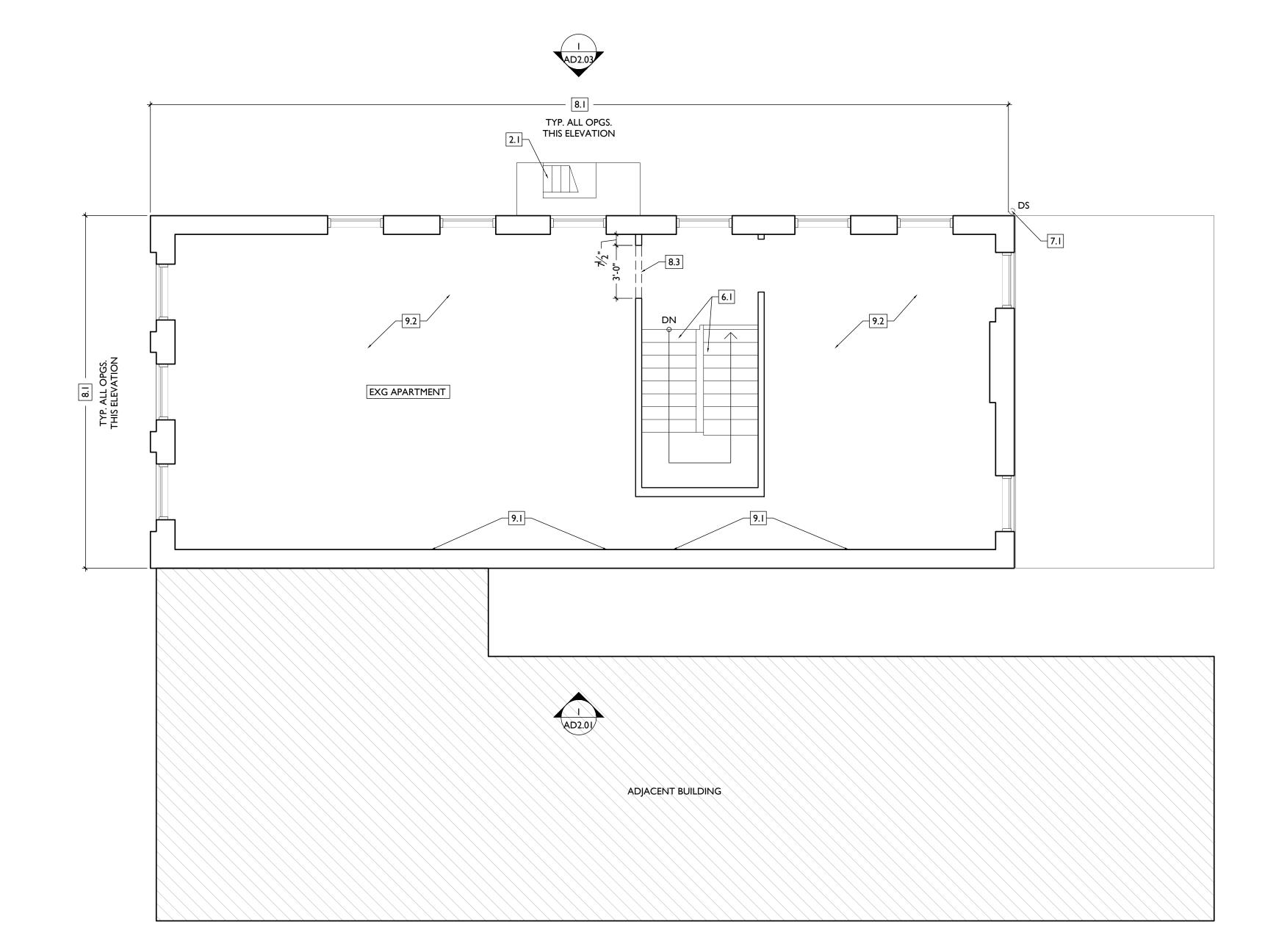
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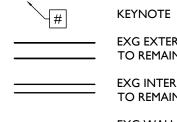
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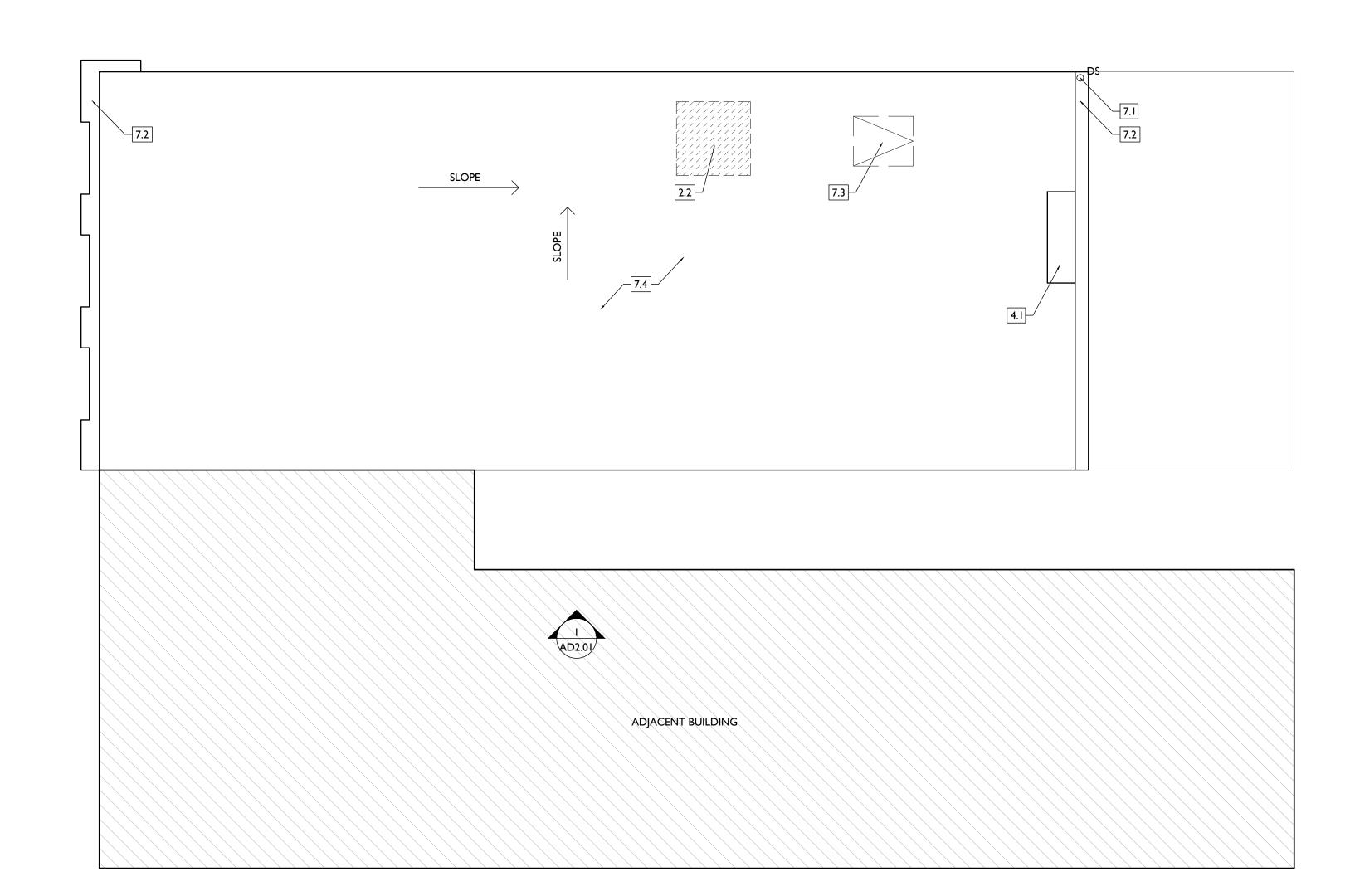
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Drawn by:
MR, AM

PUBLIC



BRICKS AT INTERIOR WYTHES.

HISTORIC TRIM.

OTHERWISE:

F. RETAIN HISTORIC EXTERIOR ORNAMENT-

G. RETAIN HISTORIC STOREFRONT ELEMENTS -

H. RETAIN HISTORIC INTERIOR WOOD TRIM -

PROPOSED, CAREFULLY REMOVE & RETAIN

BRICK MOULD AND SHUTTER HARDWARE.

REMOVE THE FOLLOWING, UNLESS NOTED

L. FURNITURE & DEBRIS, INTERIOR & EXTERIOR, ALL

DOORS, TRANSOMS, AND SIDELITES.

CORNICES, FRIEZES, BRACKETS, ETC.

T. NON-HISTORIC WALL FINISHES, INCLUDING COLUMNS, LINTELS, THRESHOLDS, GLAZING, ETC. PANELING AND WALLCOVERING. U. MECHANICAL SYSTEMS - BOILERS, FURNACES,

MANTLES, BASEBOARDS, CROWN MOULDING, CONDENSERS, DUCTS, VENTS, PANELS, ETC. BACK WALL PANELS, WAINSCOTING, WINDOW FRAMES, TO SERVICE. DOOR FRAMES, ETC. AT WALLS WHERE PLASTER IS BEING REMOVED OR WHERE NEW FURRING IS

V. ELECTRIC SYSTEMS - FIXTURES, SWITCHES, RECEPTACLES, WIRING, PANELS, ETC. BACK TO

W.PLUMBING SYSTEMS - FIXTURES, WATER HEATERS, I. RETAIN HISTORIC INTERIOR AND EXTERIOR DRAINS, PIPING, VENT STACKS, ETC. BACK TO SERVICE. RETAIN HISTORIC WOOD WINDOW SASH, FRAMES. X. NON-HISTORIC DOWNSPOUTS & ALUMINUM

GUTTERS, GUTTERBOARDS. Y. NON-HISTORIC VINYL AND ALUMINUM WINDOWS. RETAIN HISTORIC WOOD FRAMES & BRICKMOLD. REUSED, UNO. CLEAR OF DEBRIS & REPAIR AS REQ. Z. VEGETATION.

EXG INTERIOR WALL TO REMAIN __ _ _ EXG WALL/ELEMENT — — — TO BE REMOVED

EXG DOOR & FRAME TO BE REMOVED EXG WINDOW TO BE REMOVED

EXG FLOOR OR WALL

CONSTRUCTION

TO BE REMOVED

KEYNOTE

TO REMAIN

EXG EXTERIOR WALL

EXP DATE 12.31.2023 Progress Dates

2023.04.28 - BID/PERMIT

Revisions

Design Team:
CO, JK, MR, MR, RK, RO, SO, TB
Drawn by:
MR, AM

REPUBLIC

Job No: 22042 04/28/2023

EXG ROOF DECKING AND REPAIR AS NEEDED.

9.1 HISTORIC PLASTER AT MASONRY WALL TO REMAIN, IF

8. OPENINGS

PLANS.

WOOD SUBFLOOR.

9. FINISHES

POSSIBLE.

RESPONSIBLE FOR THE WORK DESCRIBED IN ALL APPLICABLE NOTES REGARDLESS OF THE CATEGORY IN WHICH THEY OCCUR.

I. GENERAL

KEYED NOTES

2. EXG CONDITIONS

2.1 REPAIR/RETAIN EXG FIRE ESCAPE. 2.2 REMOVE FRAMING & SHEATHING/DECKING IN THIS AREA. SEE 9.2 REMOVE NON-HISTORIC FINISH FLOORING DOWN TO STRUCTURAL DWGS & NEW WORK PLANS.

KEYED NOTES ARE CATEGORIZED FOR ORGANIZATIONAL PURPOSES

ONLY. NOTES MAY REQUIRE MATERIALS OR WORK IN CATEGORIES

OTHER THAN WHERE THEY OCCUR. THE CONTRACTOR IS

ALL KEYED NOTES LISTED MAY NOT APPLY TO THIS SHEET.

2.3 EXG HISTORIC EXTERIOR ORNAMENT TO REMAIN (CORNICE, BRACKET, FRIEZE, ENTABLATURE, PILASTER, ETC). 2.4 EXG STRUCTURAL ELEMENTS (POSTS, BEAMS, FOOTINGS, ETC.) TO REMAIN U.N.O., TYPICAL. SEE PROPOSED

STRÚCTURAL DRAWINGS. 2.5 SEE CIVIL DRAWINGS FOR SIDEWALK/STREETSCAPE SCOPE.

3. CONCRETE 3.1 CONCRETE SLAB TO BE RETAINED.

4. MASONRY 4.1 EXG CHIMNEY TO REMAIN.

5. METALS

6. WOOD, PLASTICS, AND COMPOSITES 6.1 EXG WOOD STAIR TO REMAIN IN PLACE. REMOVE

NON-HISTORIC GUARDRAIL/HANDRAIL. 6.2 REMOVE EXG NON-HISTORIC WOOD STAIR ENTIRELY.

7. THERMAL AND MOISTURE PROTECTION 7.1 REMOVE NON-HISTORIC GUTTER & DOWNSPOUTS.

7.3 REMOVE ROOF ACCESS HATCH.

5.1 NOT USED.

7.2 REPAIR/RETAIN EXG HISTORIC CORNICE & BOX GUTTER. 7.4 REMOVE EXG MEMBRANE ROOF. CONTRACTOR TO INSPECT

A. THIS PROJECT IS A NPS AND OHPO HISTORIC PRESERVATION TAX CREDIT PROJECT. **COORDINATE & CONFORM ALL WORK TO** 8.1 REMOVE NON-HISTORIC WINDOW & NON-HISTORIC FRAME THE APPROVED PART 2 NARRATIVE AND ENTIRELY, BACK TO MASONRY OPENING. **AMENDMENTS. NO HISTORIC ELEMENTS** 8.2 NON-HISTORIC DOOR & FRAME TO BE REMOVED ENTIRELY, ARE TO BE REMOVED OR MODIFIED UNLESS BACK TO MASONRY OPENING. SPECIFICALLY NOTED OTHERWISE. 8.3 NEW OPENING IN EXG HISTORIC WALL. SEE NEW WORK

THROUGHOUT THIS PROJECT, HISTORIC DOORS, WINDOWS, AND INTERIOR TRIM REMAINS LARGELY INTACT. HISTORIC ELEMENTS (TRIM, DOORS, ETC.) TO REMAIN OR BE SALVAGED FOR REUSE. B. IF UNEXPECTED HISTORIC TRIM IS UNCOVERED DURING DEMOLITION, STOP WORK AND

CONTACT ARCHITECT IMMEDIATELY FOR DOCUMENTATION AND POSSIBLE SHPO/NPS

C. AT NEW OPENINGS AND MODIFICATIONS OF EXG K. EXG DOWNSPOUT TIE-IN LOCATIONS TO BE OPENINGS IN MASONRY AND EXTERIOR WALLS: I. VERIFY ANY INFILL IS NON-LOADBEARING PRIOR

TO DEMOLITION. 2. VERIFY CONDITION OF ANY EXG LINTELS. IF DAMAGED, CONTACT ARCHITECT AND STRUCTURAL ENGINEER. 3. PROVIDE SHORING AS REQUIRED. 4. TOOTH OUT AND KEY IN MASONRY SO CUT

BRICK IS NOT EXPOSED, EXCEPT WHERE NOTED IN CORRIDORS. 5. EXPOSED MASONRY EDGES ARE TO BE FIRED EDGES U.N.O.

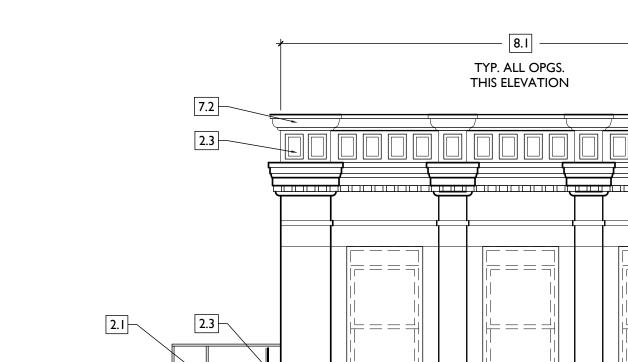
D. AT COMPLETION OF DEMOLITION, ALL FLOORS SHALL BE SWEPT BROOM CLEAN.

ADDITIONAL INFORMATION REGARDING **ELEMENTS TO BE RETAINED:** E. IN AREAS OF NEW MASONRY OPENINGS, SALVAGE HISTORIC BRICK FOR REUSE & CAREFULLY SORT AND SEPARATE HARD-FIRED FACE BRICK FROM

FLOOR LEVELS, INCLUDING BASEMENT & ATTIC. M. SUSPENDED ACOUSTICAL CEILINGS. N. NON-HISTORIC DOORS & DOOR FRAMES (SHOWN DASHED).

O. NON-HISTORIC STAIRS (SHOWN DASHED). P. PLASTER & LATH: REFER TO HISTORIC NARRATIVES FOR SPECIFIC GUIDELINES FOR PLASTER REPAIR, WHEN REQ. FOLLOW THESE GUIDELINES FOR THE REMOVAL OR RETENTION OF PLASTER AND LATH, UNO. RETAIN AND REPAIR PLASTER AT HISTORIC INTERIOR WALLS TO REMAIN. REMOVE LOOSE OR DETERIORATED PLASTER AT MASONRY WALLS. Q. ROOFING DOWN TO EXG. SUBSTRATE, U.N.O. REPLACE DAMAGED/DETERIORATED SUBSTRATE AS

TYP. ALL OPGS. THIS ELEVATION [뉴 = = 뭐] = = = = + = = =THIRD FLOOR 누=== === 늗==테 FIRST FLOOR (FRONT)



EXISTING + DEMOLITION ELEVATION - EAST

7.1 REMOVE NON-HISTORIC GUTTER & DOWNSPOUTS.

7.3 REMOVE ROOF ACCESS HATCH.

7.2 REPAIR/RETAIN EXG HISTORIC CORNICE & BOX GUTTER.

7.4 REMOVE EXG MEMBRANE ROOF. CONTRACTOR TO INSPECT

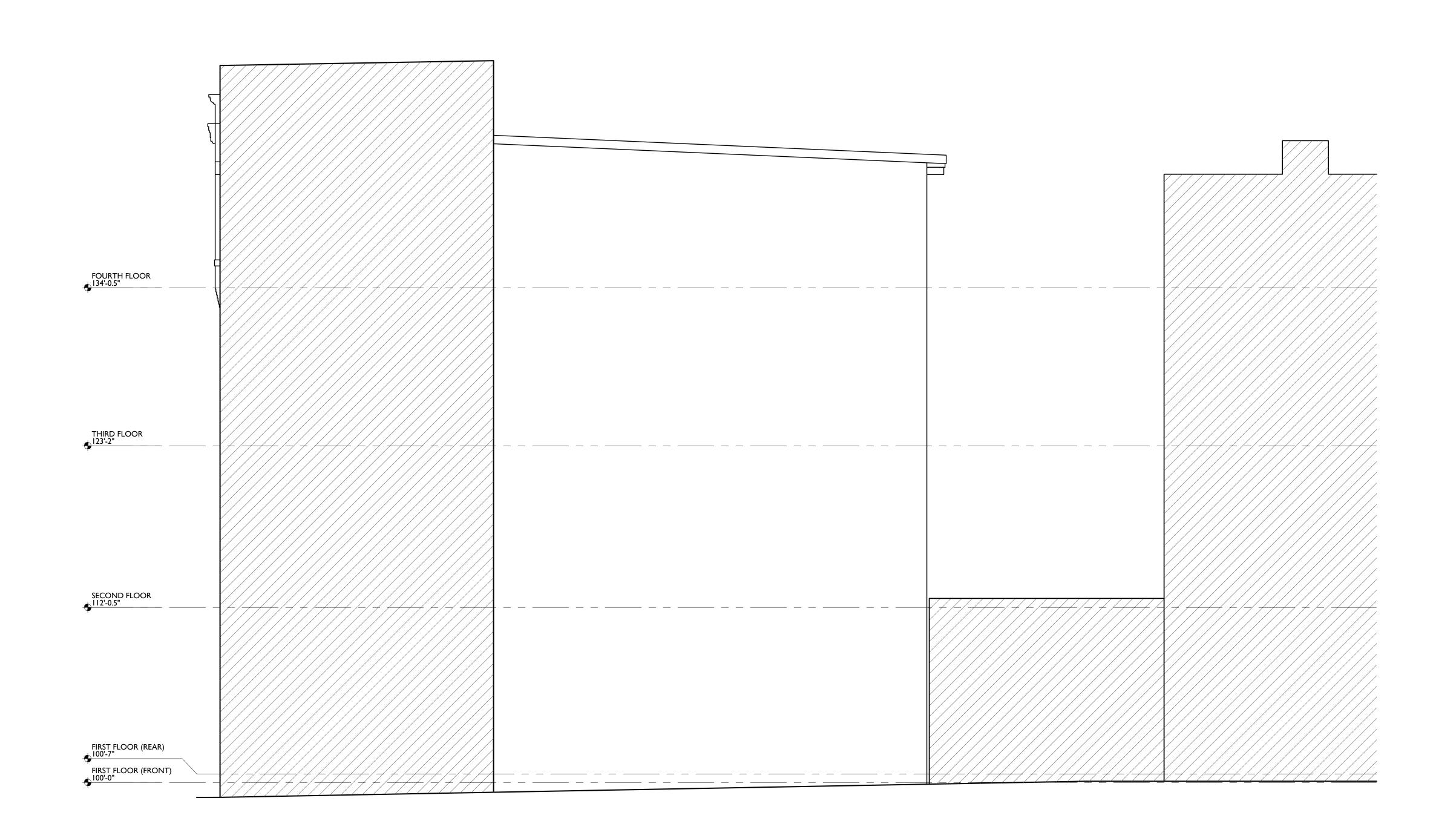
E. IN AREAS OF NEW MASONRY OPENINGS, SALVAGE

HISTORIC BRICK FOR REUSE & CAREFULLY SORT

AND SEPARATE HARD-FIRED FACE BRICK FROM

Q. ROOFING DOWN TO EXG. SUBSTRATE, U.N.O.

REPLACE DAMAGED/DETERIORATED SUBSTRATE AS



architecture + design

KURT PLATTE 10833
EXP DATE 12 31 2023

KURT PLATTE 10833 EXP DATE 12.31.2023 Progress Dates 2023.04.28 - BID/PERMIT

Revisions

Design Team:
CO, JK, MR, MR, RK, RO, SO, TB
Drawn by:
MR, AM

- 110,701

ON FOR REPUBLIC

RENOVATION | 806 R

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ONLY. NOTES MAY REQUIRE MATERIALS OR WORK IN CATEGORIES OTHER THAN WHERE THEY OCCUR. THE CONTRACTOR IS RESPONSIBLE FOR THE WORK DESCRIBED IN ALL APPLICABLE NOTES REGARDLESS OF THE CATEGORY IN WHICH THEY OCCUR.

ALL KEYED NOTES LISTED MAY NOT APPLY TO THIS SHEET.

I. GENERAL

- 2. EXG CONDITIONS
- 2.1 REPAIR/RETAIN EXG FIRE ESCAPE. 2.2 REMOVE FRAMING & SHEATHING/DECKING IN THIS AREA. SEE 9.2 REMOVE NON-HISTORIC FINISH FLOORING DOWN TO STRUCTURAL DWGS & NEW WORK PLANS.
- 2.3 EXG HISTORIC EXTERIOR ORNAMENT TO REMAIN (CORNICE, BRACKET, FRIEZE, ENTABLATURE, PILASTER, ETC). 2.4 EXG STRUCTURAL ELEMENTS (POSTS, BEAMS, FOOTINGS,
- ETC.) TO REMAIN U.N.O., TYPICAL. SEE PROPOSED STRÚCTURAL DRAWINGS.
- 2.5 SEE CIVIL DRAWINGS FOR SIDEWALK/STREETSCAPE SCOPE.
- 3. CONCRETE 3.1 CONCRETE SLAB TO BE RETAINED.
- 4. MASONRY 4.1 EXG CHIMNEY TO REMAIN.
- 5. METALS

5.1 NOT USED.

- 6. WOOD, PLASTICS, AND COMPOSITES 6.1 EXG WOOD STAIR TO REMAIN IN PLACE. REMOVE
- NON-HISTORIC GUARDRAIL/HANDRAIL. 6.2 REMOVE EXG NON-HISTORIC WOOD STAIR ENTIRELY.
- 7. THERMAL AND MOISTURE PROTECTION 7.1 REMOVE NON-HISTORIC GUTTER & DOWNSPOUTS.
- 7.2 REPAIR/RETAIN EXG HISTORIC CORNICE & BOX GUTTER. 7.3 REMOVE ROOF ACCESS HATCH.
- 7.4 REMOVE EXG MEMBRANE ROOF. CONTRACTOR TO INSPECT

EXG ROOF DECKING AND REPAIR AS NEEDED.

8. OPENINGS

- 8.1 REMOVE NON-HISTORIC WINDOW & NON-HISTORIC FRAME ENTIRELY, BACK TO MASONRY OPENING. 8.2 NON-HISTORIC DOOR & FRAME TO BE REMOVED ENTIRELY,
- BACK TO MASONRY OPENING. 8.3 NEW OPENING IN EXG HISTORIC WALL. SEE NEW WORK

9. FINISHES

PLANS.

9.1 HISTORIC PLASTER AT MASONRY WALL TO REMAIN, IF POSSIBLE.

WOOD SUBFLOOR.

A. THIS PROJECT IS A NPS AND OHPO HISTORIC PRESERVATION TAX CREDIT PROJECT. COORDINATE & CONFORM ALL WORK TO THE APPROVED PART 2 NARRATIVE AND **AMENDMENTS. NO HISTORIC ELEMENTS** ARE TO BE REMOVED OR MODIFIED UNLESS SPECIFICALLY NOTED OTHERWISE. THROUGHOUT THIS PROJECT, HISTORIC DOORS,

WINDOWS, AND INTERIOR TRIM REMAINS LARGELY INTACT. HISTORIC ELEMENTS (TRIM, DOORS, ETC.) TO REMAIN OR BE SALVAGED FOR REUSE. B. IF UNEXPECTED HISTORIC TRIM IS UNCOVERED DURING DEMOLITION, STOP WORK AND

- CONTACT ARCHITECT IMMEDIATELY FOR DOCUMENTATION AND POSSIBLE SHPO/NPS
- C. AT NEW OPENINGS AND MODIFICATIONS OF EXG K. EXG DOWNSPOUT TIE-IN LOCATIONS TO BE OPENINGS IN MASONRY AND EXTERIOR WALLS: I. VERIFY ANY INFILL IS NON-LOADBEARING PRIOR
- TO DEMOLITION. 2. VERIFY CONDITION OF ANY EXG LINTELS. IF DAMAGED, CONTACT ARCHITECT AND
- STRUCTURAL ENGINEER. 3. PROVIDE SHORING AS REQUIRED. 4. TOOTH OUT AND KEY IN MASONRY SO CUT
- BRICK IS NOT EXPOSED, EXCEPT WHERE NOTED IN CORRIDORS. 5. EXPOSED MASONRY EDGES ARE TO BE FIRED

EDGES U.N.O. D. AT COMPLETION OF DEMOLITION, ALL FLOORS SHALL BE SWEPT BROOM CLEAN.

ADDITIONAL INFORMATION REGARDING ELEMENTS TO BE RETAINED:

E. IN AREAS OF NEW MASONRY OPENINGS, SALVAGE HISTORIC BRICK FOR REUSE & CAREFULLY SORT AND SEPARATE HARD-FIRED FACE BRICK FROM

BRICKS AT INTERIOR WYTHES. F. RETAIN HISTORIC EXTERIOR ORNAMENT-

DEMO GENERAL NOTES:

BEING REMOVED OR WHERE NEW FURRING IS

PROPOSED, CAREFULLY REMOVE & RETAIN

I. RETAIN HISTORIC INTERIOR AND EXTERIOR

BRICK MOULD AND SHUTTER HARDWARE.

REMOVE THE FOLLOWING, UNLESS NOTED

L. FURNITURE & DEBRIS, INTERIOR & EXTERIOR, ALL

N. NON-HISTORIC DOORS & DOOR FRAMES (SHOWN

P. PLASTER & LATH: REFER TO HISTORIC NARRATIVES

FOR SPECIFIC GUIDELINES FOR PLASTER REPAIR,

WHEN REQ. FOLLOW THESE GUIDELINES FOR THE

REMOVAL OR RETENTION OF PLASTER AND LATH,

UNO. RETAIN AND REPAIR PLASTER AT HISTORIC

DETERIORATED PLASTER AT MASONRY WALLS.

Q. ROOFING DOWN TO EXG. SUBSTRATE, U.N.O.

INTERIOR WALLS TO REMAIN. REMOVE LOOSE OR

REPLACE DAMAGED/DETERIORATED SUBSTRATE AS

O. NON-HISTORIC STAIRS (SHOWN DASHED).

FLOOR LEVELS, INCLUDING BASEMENT & ATTIC.

DOORS, TRANSOMS, AND SIDELITES.

M. SUSPENDED ACOUSTICAL CEILINGS.

HISTORIC TRIM.

OTHERWISE:

DASHED).

R. DETERIORATED WOOD SUBFLOOR: REPLACE WITH NEW PLYWOOD SUBFLOOR, SEE PROPOSED. CORNICES, FRIEZES, BRACKETS, ETC. S. NON-HISTORIC CABINETRY.

G. RETAIN HISTORIC STOREFRONT ELEMENTS -T. NON-HISTORIC WALL FINISHES, INCLUDING PANELING AND WALLCOVERING. COLUMNS, LINTELS, THRESHOLDS, GLAZING, ETC. H. RETAIN HISTORIC INTERIOR WOOD TRIM -U. MECHANICAL SYSTEMS - BOILERS, FURNACES, MANTLES, BASEBOARDS, CROWN MOULDING,

CONDENSERS, DUCTS, VENTS, PANELS, ETC. BACK TO SERVICE. WALL PANELS, WAINSCOTING, WINDOW FRAMES, DOOR FRAMES, ETC. AT WALLS WHERE PLASTER IS V. ELECTRIC SYSTEMS - FIXTURES, SWITCHES,

RECEPTACLES, WIRING, PANELS, ETC. BACK TO SERVICE. W.PLUMBING SYSTEMS - FIXTURES, WATER HEATERS,

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GUTTERS, GUTTERBOARDS. Y. NON-HISTORIC VINYL AND ALUMINUM WINDOWS. RETAIN HISTORIC WOOD FRAMES & BRICKMOLD. REUSED, UNO. CLEAR OF DEBRIS & REPAIR AS REQ. Z. VEGETATION.

EXG INTERIOR WALL TO REMAIN EXG WALL/ELEMENT TO BE REMOVED

EXG DOOR & FRAME TO BE REMOVED EXG WINDOW TO BE REMOVED

DEMO WORK GRAPHIC KEY:

KEYNOTE

TO REMAIN

EXG EXTERIOR WALL

EXG FLOOR OR WALL CONSTRUCTION TO BE REMOVED

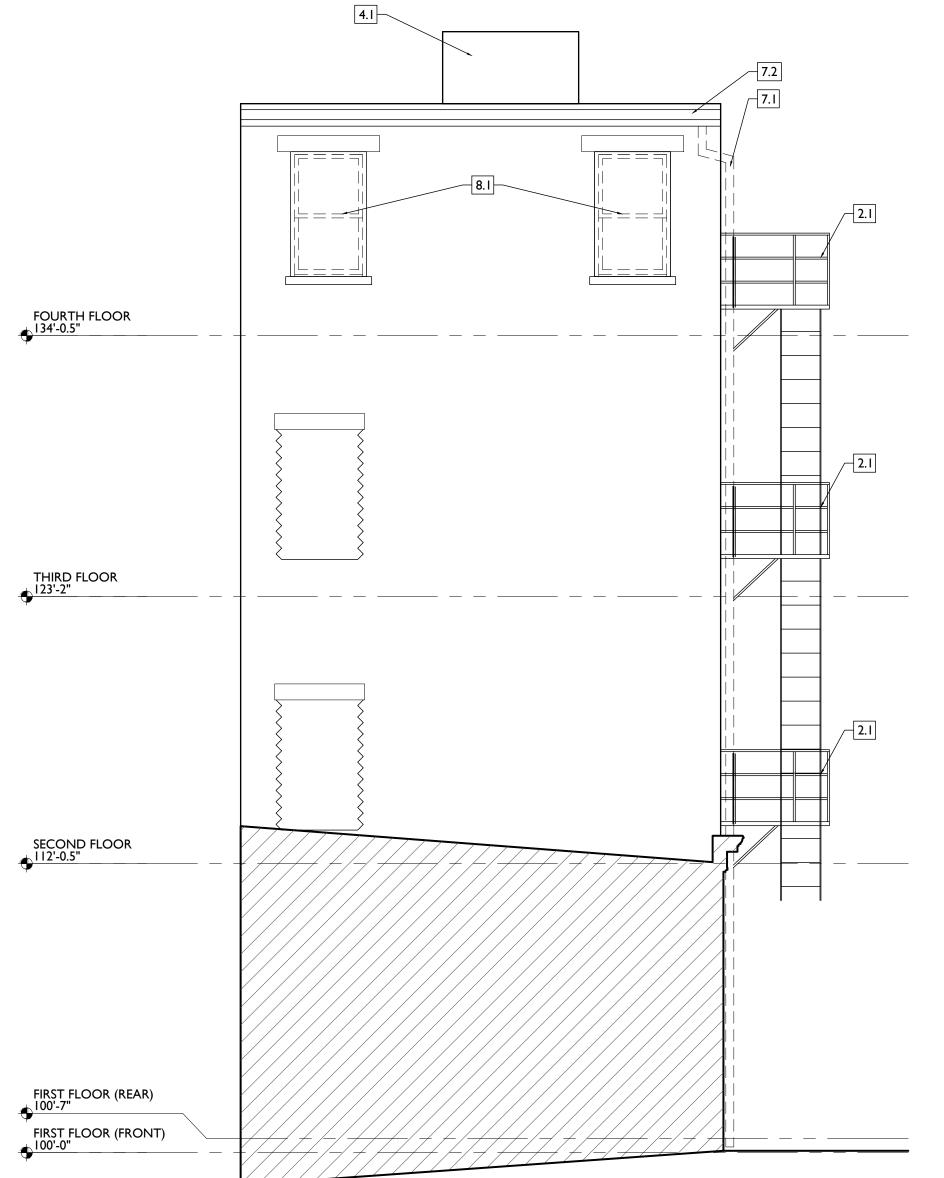
KURT PLATTE 10833 EXP DATE 12.31.2023 Progress Dates

2023.04.28 - BID/PERMIT

Revisions

Design Team:
CO, JK, MR, MR, RK, RO, SO, TB
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PUBLIC



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I. GENERAL

KEYED NOTES

2. EXG CONDITIONS 2.1 REPAIR/RETAIN EXG FIRE ESCAPE.

- 2.2 REMOVE FRAMING & SHEATHING/DECKING IN THIS AREA. SEE 9.2 REMOVE NON-HISTORIC FINISH FLOORING DOWN TO STRUCTURAL DWGS & NEW WORK PLANS.
- 2.3 EXG HISTORIC EXTERIOR ORNAMENT TO REMAIN (CORNICE, BRACKET, FRIEZE, ENTABLATURE, PILASTER, ETC). 2.4 EXG STRUCTURAL ELEMENTS (POSTS, BEAMS, FOOTINGS, ETC.) TO REMAIN U.N.O., TYPICAL. SEE PROPOSED
- STRÚCTURAL DRAWINGS. 2.5 SEE CIVIL DRAWINGS FOR SIDEWALK/STREETSCAPE SCOPE.
- 3. CONCRETE
- 3.1 CONCRETE SLAB TO BE RETAINED.

4.1 EXG CHIMNEY TO REMAIN.

5. METALS

4. MASONRY

5.1 NOT USED.

- 6. WOOD, PLASTICS, AND COMPOSITES 6.1 EXG WOOD STAIR TO REMAIN IN PLACE. REMOVE NON-HISTORIC GUARDRAIL/HANDRAIL.
- 6.2 REMOVE EXG NON-HISTORIC WOOD STAIR ENTIRELY.
- 7. THERMAL AND MOISTURE PROTECTION 7.1 REMOVE NON-HISTORIC GUTTER & DOWNSPOUTS.
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- 7.4 REMOVE EXG MEMBRANE ROOF. CONTRACTOR TO INSPECT

8.1 REMOVE NON-HISTORIC WINDOW & NON-HISTORIC FRAME ENTIRELY, BACK TO MASONRY OPENING. 8.2 NON-HISTORIC DOOR & FRAME TO BE REMOVED ENTIRELY,

8.3 NEW OPENING IN EXG HISTORIC WALL. SEE NEW WORK

PLANS. 9. FINISHES

9.1 HISTORIC PLASTER AT MASONRY WALL TO REMAIN, IF POSSIBLE.

WOOD SUBFLOOR.

BACK TO MASONRY OPENING.

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CONTACT ARCHITECT IMMEDIATELY FOR DOCUMENTATION AND POSSIBLE SHPO/NPS

C. AT NEW OPENINGS AND MODIFICATIONS OF EXG K. EXG DOWNSPOUT TIE-IN LOCATIONS TO BE OPENINGS IN MASONRY AND EXTERIOR WALLS: I. VERIFY ANY INFILL IS NON-LOADBEARING PRIOR

- TO DEMOLITION. 2. VERIFY CONDITION OF ANY EXG LINTELS. IF DAMAGED, CONTACT ARCHITECT AND STRUCTURAL ENGINEER.
- 3. PROVIDE SHORING AS REQUIRED. 4. TOOTH OUT AND KEY IN MASONRY SO CUT BRICK IS NOT EXPOSED, EXCEPT WHERE NOTED IN CORRIDORS.

5. EXPOSED MASONRY EDGES ARE TO BE FIRED

EDGES U.N.O. D. AT COMPLETION OF DEMOLITION, ALL FLOORS SHALL BE SWEPT BROOM CLEAN.

ADDITIONAL INFORMATION REGARDING

ELEMENTS TO BE RETAINED: E. IN AREAS OF NEW MASONRY OPENINGS, SALVAGE HISTORIC BRICK FOR REUSE & CAREFULLY SORT AND SEPARATE HARD-FIRED FACE BRICK FROM

S. NON-HISTORIC CABINETRY. G. RETAIN HISTORIC STOREFRONT ELEMENTS -T. NON-HISTORIC WALL FINISHES, INCLUDING

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REMOVE THE FOLLOWING, UNLESS NOTED

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N. NON-HISTORIC DOORS & DOOR FRAMES (SHOWN

P. PLASTER & LATH: REFER TO HISTORIC NARRATIVES

FOR SPECIFIC GUIDELINES FOR PLASTER REPAIR,

WHEN REQ. FOLLOW THESE GUIDELINES FOR THE

REMOVAL OR RETENTION OF PLASTER AND LATH,

INTERIOR WALLS TO REMAIN. REMOVE LOOSE OR DETERIORATED PLASTER AT MASONRY WALLS.

REPLACE DAMAGED/DETERIORATED SUBSTRATE AS

UNO. RETAIN AND REPAIR PLASTER AT HISTORIC

Q. ROOFING DOWN TO EXG. SUBSTRATE, U.N.O.

O. NON-HISTORIC STAIRS (SHOWN DASHED).

FLOOR LEVELS, INCLUDING BASEMENT & ATTIC.

DOORS, TRANSOMS, AND SIDELITES.

M. SUSPENDED ACOUSTICAL CEILINGS.

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OTHERWISE:

DASHED).

COLUMNS, LINTELS, THRESHOLDS, GLAZING, ETC. PANELING AND WALLCOVERING. H. RETAIN HISTORIC INTERIOR WOOD TRIM -U. MECHANICAL SYSTEMS - BOILERS, FURNACES, CONDENSERS, DUCTS, VENTS, PANELS, ETC. BACK MANTLES, BASEBOARDS, CROWN MOULDING, TO SERVICE. WALL PANELS, WAINSCOTING, WINDOW FRAMES, DOOR FRAMES, ETC. AT WALLS WHERE PLASTER IS

V. ELECTRIC SYSTEMS - FIXTURES, SWITCHES, RECEPTACLES, WIRING, PANELS, ETC. BACK TO SERVICE.

W.PLUMBING SYSTEMS - FIXTURES, WATER HEATERS, DRAINS, PIPING, VENT STACKS, ETC. BACK TO SERVICE.

. RETAIN HISTORIC WOOD WINDOW SASH, FRAMES, X. NON-HISTORIC DOWNSPOUTS & ALUMINUM GUTTERS, GUTTERBOARDS. Y. NON-HISTORIC VINYL AND ALUMINUM WINDOWS. RETAIN HISTORIC WOOD FRAMES & BRICKMOLD. REUSED, UNO. CLEAR OF DEBRIS & REPAIR AS REQ.

Z. VEGETATION.

EXG EXTERIOR WALL TO REMAIN EXG INTERIOR WALL

KEYNOTE

DEMO WORK GRAPHIC KEY:

TO REMAIN EXG WALL/ELEMENT TO BE REMOVED

EXG DOOR & FRAME TO BE REMOVED

EXG WINDOW TO BE **EXG FLOOR OR WALL**

CONSTRUCTION TO BE REMOVED

KURT PLATTE 10833 EXP DATE 12.31.2023

Progress Dates 2023.04.28 - BID/PERMIT

Revisions

Design Team:
CO, JK, MR, MR, RK, RO, SO, TB
Drawn by:
MR, AM

PUBL



GENERAL NOTES:

I. CONTRACTOR TO VERIFY ALL DIMENSIONS AND INFORMATION IN THESE DRAWINGS.

2. CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS, INCLUDING SITE CONDITIONS. ALL ERRORS, OMISSIONS, AND INCONSISTENCIES

ARE TO BE REPORTED TO THE ARCHITECT BEFORE PROCEEDING WITH THE WORK. FAILURE TO DO SO WILL RELEASE THE ARCHITECT OF ALL RESPONSIBILITY. ANY CHANGES FROM THESE DOCUMENTS ARE THE RESPONSIBILITY OF THE CONTRACTOR. THESE DRAWINGS ARE NOT TO BE SCALED. IF INSUFFICIENT INFORMATION EXISTS, CONTACT THE ARCHITECT FOR CLARIFICATION BEFORE PROCEEDING WITH THE WORK. EACH CONTRACTOR SHALL VISIT THE SITE TO BECOME FAMILIAR WITH EXISTING CONDITIONS AS MAY EFFECT HIS OWN WORK, DESIGN/BUILD OR OTHERWISE.

3. BEST MANAGEMENT PRACTICES SHALL BE USED BY THE CONTRACTOR DURING DEMOLITION TO PREVENT RELEASE OF LEAD-CONTAMINATED DUST SHALL BE EMITTED FROM DEMOLITION ACTIVITIES. ALL PAINT CHIPS AND OTHER DEBRIS OR RESIDUE SHALL BE REMOVED FROM THE PROJECT SITE AT THE COMPLETION OF DEMOLITION. STORAGE AND TRANSPORT OF MATERIALS KNOWN OR ASSUMED TO CONTAIN LEAD BASED PAINT SHALL BE COVERED TO PREVENT ACCESS TO OR RELEASE OF LEAD-CONTAMINATED DUST OR DEBRIS.

4. IT SHALL BE THE RESPONSIBILITY OF THE BUILDING OWNER TO SUPERVISE CONSTRUCTION AND INSURE THAT THESE DRAWINGS ARE COMPLIED WITH IN THE EVENT THAT THIS ARCHITECT IS NOT RETAINED FOR SUCH SERVICES.

5. ALL WORK SHALL COMPLY WITH STATE AND LOCAL CODES, ORDINANCES AND REGULATIONS, INCLUDING THE AMERICANS WITH DISABILITIES ACT, HAVING AUTHORITY BEARING ON THE PERFORMANCE OF THE WORK, AND SHALL BE DONE TO THE HIGHEST STANDARDS OF CRAFTSMANSHIP BY EACH RESPECTIVE TRADE

6. GUARANTEES SHALL BE REQUIRED OF ALL BRANCHES OF THE WORK. CONTRACTORS TO REMEDY ANY DEFECTS IN THEIR WORK AND PAY FOR ANY RESULTANT DAMAGES TO OTHER WORK FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE.

7. CONTRACTOR SHALL SUPERVISE THE WORK DURING PROGRESS AND SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES. CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION SAFETY; COMPLIANCE TO BE IN ACCORDANCE WITH ALL STATE, FEDERAL AND O.S.H.A. REGULATIONS.

8. CONTRACTOR AND ALL SUB-CONTRACTORS SHALL MAINTAIN THE JOB CLEAR OF TRASH AND DEBRIS. ALL WASTE MATERIAL, TOOLS, CONSTRUCTION EQUIPMENT AND SURPLUS MATERIAL SHALL BE REMOVED FROM THE SITE PRIOR TO SUBSTANTIAL COMPLETION AND FINAL ACCEPTANCE.

9. CONTRACTOR SHALL PRESENT THE PROJECT TO THE OWNER FOR ACCEPTANCE, CLEAN AND READY FOR USE. ALL GLASS TO BE CLEANED, FLOORS SWEPT BROOM CLEAN, FIXTURES WASHED AND LABELS REMOVED FROM ALL ITEMS.

IO. ANY CONTRACTOR OF SUBCONTRACTOR WHO PERFORMS ANY WORK KNOWING IT TO BE CONTRARY TO APPLICABLE LAWS, ORDINANCES OR REGULATION, AND WITHOUT WRITTEN NOTICE TO THE ARCHITECT SHALL ASSUME FULL RESPONSIBILITY AND SHALL BEAR ALL ATTRIBUTABLE COSTS.

II. IN THE EVENT OF ANY CONFLICT BETWEEN ARCHITECTURAL DRAWINGS OR SPECIFICATIONS AND STRUCTURAL DRAWINGS OR SPECIFICATIONS, STRUCTURAL SHALL GOVERN.

I2. PROJECT IS TO RECEIVE HISTORIC TAX CREDITS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO BE WELL VERSED IN THE APPROVED PART 2 AND SUBSEQUENT AMENDMENTS, AND TO INFORM SUBCONTRACTORS OF ANY CHANGES /APPROVALS DURING THE BIDDING AND THE CONSTRUCTION PHASES.

GENERAL NOTES: ALL TRADES

I. FURNISH ALL LABOR, MATERIAL AND APPURTENANCES NECESSARY FOR A COMPLETE AND OPERATIONAL SYSTEM AS SHOWN OR REQUIRED.

2. ALL WORK SHALL CONFORM TO APPLICABLE CODES AND AUTHORITIES HAVING JURISDICTION. EACH CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS, TESTS AND INSPECTIONS FOR HIS OWN WORK AS REQUIRED BY AUTHORITIES HAVING JURISDICTION.

3. PERFORM ALL TESTS, ADJUSTMENTS, ETC. AS REQUIRED BY EQUIPMENT MANUFACTURER OR AUTHORITIES HAVING JURISDICTION.

4. CONTRACTORS SHALL VISIT SITE TO BECOME FAMILIAR WITH EXISTING CONDITIONS AS MAY EFFECT HIS OWN WORK. EACH CONTRACTOR SHALL COORDINATE HIS OWN WORK WITH THAT OF OTHER TRADES.

5. EACH CONTRACTOR SHALL FURNISH ALL CUTTING AND PATCHING REQUIRED FOR HIS OWN WORK. NO CUTTING SHALL BE PERFORMED WITHOUT PRIOR APPROVAL OF GENERAL CONTRACTOR.

6. WORKMANSHIP SHALL REPRESENT THE HIGHEST STANDARD OF THE INDUSTRY. GUARANTEE ALL MATERIAL AND WORKMANSHIP FOR A PERIOD OF ONE YEAR AFTER ACCEPTANCE.

GENERAL CONDITIONS

CONTRACT DOCUMENTS: INCLUDE THESE GENERAL CONDITIONS FOR CONSTRUCTION, DRAWINGS, SCHEDULES, AND SPECIFICATIONS PREPARED BY THE ARCHITECT AND CONTAINED HEREIN, AND ALL WRITTEN ADDENDA OR OTHER MODIFICATIONS ISSUED SUBSEQUENTLY BY THE ARCHITECT. THE CONTRACT DOCUMENTS SHALL NOT BE CONSTRUED TO CREATE ANY CONTRACTUAL RELATIONSHIP OF ANY KIND BETWEEN THE ARCHITECT AND THE CONTRACTOR.

CONTRACT MODIFICATIONS: THESE CONTRACT

DOCUMENTS SHALL NOT BE FURTHER MODIFIED BY ANY TERMS OR CONDITIONS OTHER THAN THOSE LISTED HEREIN OR IN THE SPECIFICATIONS, OR IN ANY WRITTEN AGREEMENTS EXECUTED BY THE OWNER, CONTRACTOR AND SUBCONTRACTORS.

NOTES WRITTEN IN THE IMPERATIVE MOOD REFER TO ACTION TO BE PERFORMED BY THE CONTRACTOR. THE WORDS "THE CONTRACTOR SHALL" ARE ALWAYS IMPLIED, IF NOT STATED, UNLESS OTHERWISE NOTED. THE TERM "CONTRACTOR" SHALL ALSO APPLY TO ALL SUBCONTRACTORS OF THE CONTRACTOR.

THE CURRENT EDITION OF AIA DOCUMENT A 10 I SHALL BE THE FORM OF AGREEMENT TO BE SIGNED BY THE OWNER AND GENERAL CONTRACTOR, UNLESS THE OWNER AND CONTRACTOR MUTUALLY AGREE OTHERWISE. GENERAL CONDITIONS CONTAINED IN AIA DOCUMENT A 20 I SHALL APPLY.

BEST MANAGEMENT PRACTICES SHALL BE EMPLOYED TO CONTROL EROSION DURING CONSTRUCTION AND UNTIL FINAL COVER IS ESTABLISHED.

THE CONTRACTOR SHALL BE NOTIFIED, BOTH VERBALLY AND THROUGH NOTATIONS ON THE FINAL CONST. DWG, THAT WORK SHALL BE HALTED AT A LOT IF INDICATORS OF CONTAMINATION (FILL OTHER THAN "CLEAN FILL", DISCOLORED SOILS OR CHEMICAL/ PETROLEUM ODORS) ARE IDENTIFIED DURING CONST. TO ALLOW FOR A QUALIFIED ENVIRONMENTAL PROFESSIONAL TO INSPECT THE LOT AND MAKE RECOMMENDATIONS REGARDING APPROPRIATE ACTIONS.

ANY WATER WELLS OR SEPTIC SYSTEMS IDENTIFIED DURING SITE DEVELOPMENT SHALL BE ABANDONED AS REQUIRED BY OAC 3745-9-10 OR 3701-29-21, AS APPLICABLE, AND AFTER CONSULTATION W/ THE LOCAL HEALTH DEPARTMENT.

DEFINITIONS:

F "CONTRACTOR": THE PERSON OR ENTITY CONSTRUCTING THE DESIGNATED WORK.

"OWNER": THE PERSON OR ENTITY THAT OWNS THE BUILDING BEING RENOVATED. THE TERM "OWNER" INCLUDES HIS DESIGNATED AND AUTHORIZED AGENTS AND REPRESENTATIVES.

"WORK": THE TERM "WORK" MEANS OBLIGATIONS UNDERTAKEN BY THE CONTRACTOR PURSUANT TO THE CONTRACT DOCUMENTS. WORK INCLUDES THE FURNISHING OF ALL MATERIAL, LABOR, EQUIPMENT, SUPPLIES, TOOLS, SCAFFOLDING, SUPERVISION, TRANSPORTATION, INSURANCE, TAXES AND ALL OTHER SERVICES, INCIDENTALS AND EXPENSES NECESSARY FOR THE FULL PERFORMANCE AND COMPLETION OF THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.

"PROJECT": THE PROJECT IS THE TOTAL CONSTRUCTION OF WHICH THE WORK PERFORMED UNDER THE CONTRACT DOCUMENTS MAY BE THE WHOLE OR A PART.

"CONTRACT DOCUMENTS": THE INTENT OF THE CONTRACT DOCUMENTS IS TO INCLUDE ALL ITEMS REQUIRED FOR COMPLETION OF THE WORK, INCLUDING DRAWINGS AND SPECIFICATIONS. ALTHOUGH THE CONTRACT DOCUMENTS HAVE BEEN PREPARED WITH DUE CARE AND DILIGENCE, PERFECTION CANNOT BE GUARANTEED. THE CONTRACTOR IS RESPONSIBLE FOR THE COORDINATION OF THE VARIOUS PARTS OF THE WORK SO THAT NO PART SHALL BE IN AN UNFINISHED OR INCOMPLETE CONDITION.

DRAWINGS PREPARED BY OTHERS:

ARCHITECTURAL, CIVIL, STRUCTURAL, MECHANICAL AND ELECTRICAL DWGS SHALL BE WORKED TOGETHER, INCLUDING THE LOCATION OF DEPRESSED SLABS, SLOPES, DRAINS, REGLETS, BOLT SETTINGS, ETC. ANY DISCREPANCY SHALL BE REPORTED TO THE ARCHITECT BEFORE PROCEEDING WITH THE WORK.

SHOP DWGS PREPARED BY OTHER CONTRACTORS MAY BE REQUIRED TO SUPPLEMENT THE CONTRACT DOCUMENTS. SUCH DWGS ARE FURNISHED FOR THE CONTRACTOR'S INFORMATION AND COORDINATION ONLY.

GENERAL NOTES: PROPOSED WORK

- THIS IS A HISTORIC TAX CREDIT PROJECT. WORK MUST COMPLY W/ APPROVED PART 2, INCLUDING AMENDMENTS.
- B. NO HISTORIC ELEMENTS SHALL BE REMOVED/MODIFIED UNLESS SPECIFICALLY INDICATED IN ARCH PLANS.
- C. REPAIR OR REPLACE EXG DAMAGED OR DETERIORATED FLOOR FRAMING &/OR WOOD SUBFLOOR PER STRUCT DWGS.
- D. HISTORIC TRIM TO BE RETAINED, U.N.O. SEE DEMO & PROPOSED PLANS.

 E. RETAIN ANY REMAINING HISTORIC WOOD WINDOW SASH, FRAMES, BRICKMOLD &
- SHUTTER HARDWARE, U.N.O. SEE DEMO & EXTERIOR ELEVATIONS.

 F. REPAIR MATERIALS THAT ARE DETERIORATED OR HAVE MOISTURE/FIRE DAMAGE AS REQ. IF DAMAGE IS SEVERE AND HISTORIC ELEMENTS ARE NON-SALVAGEABLE, COORDINATE
- REPLACEMENT ELEMENTS WITH ARCHITECT.
 G. SEE CODE SHEETS FOR ROOF/FLOOR/CEILING ASSEMBLY LOCATIONS & PARTITION
- SCHEDULE FOR TYPES.

 H. PENETRATIONS OF RATED ASSEMBLIES TO BE PROTECTED PER SECTION 713.3 & 713.4 OBC.
- COORD W/ MEP DWGS.
- I. PROVIDE FIRE BLOCKING PER 717.2 OBC.J. PROVIDE DRAFTSTOPPING IN FLOORS, CLGS/ROOFS & ATTICS PER OBC.

PROVIDE BLOCKING FOR SHELVING, CABINETS AND BATHROOM ACCESSORIES AND GRAB

- BARS. SEE PLANS AND INTERIOR ELEVATIONS.

 L. USE PRESSURE TREATED WOOD IN THE FOLLOWING LOCATIONS:
- EXTERIOR APPLICATIONS. - IN BASEMENTS. - WOOD IN CONTACT WITH MASONRY, STONE, OR CONCRETE.
- AT ANY NEW FRAMING IN CONTACT W/ MASONRY OR FOUNDATION WALL, PROVIDE SEPARATION/ JOIST & BEAM END WRAPS.

 M. EXTERIOR TRIM, SOFFITS, CORNICE AND STOREFRONT ELEMENTS TO BE
- M. EXTERIOR TRIM, SOFFITS, CORNICE AND STOREFRONT ELEMENTS TO BE REPAIRED/RETAINED/REPLACED AND PAINTED AS NOTED IN DRAWINGS. EXG. UN-PAINTED BRICK AND STONE TO REMAIN UNPAINTED. SEE EXTERIOR ELEVATIONS FOR SCOPE OF WORK. COORD COLORS DIRECTLY W/ ARCHITECT.
- AF. REFER TO MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR LOCATION AND CONNECTIONS OF ALL MEP EQUIPMENT.

 AG. PROVIDE SLEEVES THROUGH EXG. BRICK WALL IN ATTIC AS REQUIRED FOR HVAC LINE-SET
- INSTALLATION.

 AH. ADDITIONAL OPENINGS IN EXTERIOR WALLS WILL BE REQUIRED FOR VARIOUS MEP
- DUCTS/PIPES/ETC, AND ARE NOT SHOWN ON ARCH & STRUCT PLANS. COORD W/ MEP PLANS. CONTACT ARCHITECT FOR PLACEMENT.

 AI. PROVIDE FIRE EXTINGUISHERS PER CODE SUMMARY & NFPA REQS. COORD W/ FIRE
- AJ. FASTENERS INTO EXISTING HISTORIC MASONRY WALLS ARE TO BE FASTENED INTO MORTAR JOINTS.
- AK. EXTERIOR STEEL TO BE DUPLEX-FINISH (GALVANIZED, WITH HIGH-PERFORMANCE COMPATIBLE EPOXY PAINT).
- AL. REPAIR & RESEAL AROUND EXG. CHIMNEYS, TYP. AS REQ. PROVIDE NEW ALUM CAP, TYP. AM. EXTERIOR WOOD TO BE PRESSURE TREATED.

 AN. WHERE INFILLING EXISTING OPENINGS IN, OR EXTENDING THE LENGTH OF AN EXISTING
- WITH ADJACENT EXISTING FINISH FACES ON BOTH SIDES.

 AO. SHEET METAL WORK TO COMPLY WITH SMACNA ARCHITECTURAL SHEET METAL MANUAL.

 AP. FLASH AND SEAL NEW ROOF PENETRATIONS THROUGH EXISTING ROOF. EMPLOY INSTALLERS ACCEPTABLE TO EXISTING ROOF MANUFACTURER AND COMPLY WITH EXISTING ROOF MANUFACTURER REQUIREMENTS TO MAINTAIN EXISTING ROOF

WOOD FRAMED PARTITION, FINISH FACES OF THE NEW CONSTRUCTION ARE TO ALIGN

- WARRANTY.

 AQ. BASEMENTS TO BE TESTED FOR RADON EXPOSURE. PROVIDE VAPOR MITIGATION SYSTEM BELOW BASEMENT SLAB AS REQUIRED. CONNECT TO VERTICAL VENTS INDICATED IN FLOOR PLANS.
- AR. MASONRY WORK: REFER TO PART 2 SHPO NARRATIVES AND STRUCTURAL DRAWINGS FOR FULL EXTENT AND SCOPE FOR MASONRY CLEANING, TUCK-POINTING, REPAIR, REPLACEMENT, AND PAINTING.
- AS. MASONRY CLEANING: CONTRACTOR SHALL PERFORM MASONRY CLEANING WORK IN ACCORDANCE WITH PRESERVATION BRIEF 6 - "DANGERS OF ABRASIVE CLEANING TO HISTORIC BUILDINGS." CONTRACTOR SHALL CLEAN EXISTING MASONRY THROUGHOUT USING THE GENTLEST MEANS POSSIBLE AND SHALL START EACH NEW METHOD OF CLEANING (E.G. BY BRUSH, WITH DETERGENT, WITH WATER PRESSURE, ETC.) IN DISCRETE AREA OF EACH WALL. CONTRACTOR SHALL BEGIN BY CLEANING WITH WATER AND NATURAL BRISTLE BRUSHES. CONTRACTOR SHALL THEN CLEAN ANY AREAS THAT REQUIRE FURTHER CLEANING USING NON-ABRASIVE, NON-ACIDIC DETERGENTS WITH NATURAL BRISTLE BRUSHES. CONTRACTOR SHALL THEN CLEAN ANY AREAS THAT REQUIRE FURTHER CLEANING USING NON-ABRASIVE, NON-ACIDIC DETERMENTS WITH LOW PRESSURE WATER (STARTING AT 20 PSI AT TIP). UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR USE PRESSURE WASHING WITH GREATER THAN 40 PSI AT TIP. CLEANING SHALL BE PERFORMED EVENLY THROUGHOUT THE ENTIRETY OF EACH WALL. WALLS WHERE STUCCO / PARGING IS TO REMAIN SHALL NOT BE CLEANED WITH PRESSURE WASHING. REMOVE EXISTING LOOSE STUCCO / PARGING BY HAND WITH BRUSHES. PRESERVATION BRIEF 6 - "DANGERS OF ABRASIVE CLEANING TO HISTORIC BUILDINGS: HTTPS://WWW.NPS.GOV/TPS/HOW-TO-PRESERVE/BRIEFS/6-DANGERS-ABRASIVE-CLEANING.HTM
- AT. PARGING: CONTRACTOR TO TEST AND ASSESS THE INTEGRITY OF EXISTING STUCCO / PARGING ON EXISTING MASONRY WALLS. ANY STUCCO / PARGING TO REMAIN MUST BE SECURELY HELD TO EXISTING MASONRY WALL. ANY STUCCO / PARGING THAT IS NOT SECURELY HELD TO MASONRY WALL SHALL BE REMOVED THROUGH GENTLEST MEANS POSSIBLE (SEE MASONRY CLEANING ABOVE). NEW STUCCO / PARGING SHALL BE INSTALLED WHERE EXISTING STUCCO / PARGING HAS BEEN REMOVED, AND AS INDICATED ON THE DRAWINGS, INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S HIGHEST RECOMMENDATIONS USING ALL ASSOCIATED COMPONENTS FOR FLASHING, PENETRATIONS, ETC. STUCCO / PARGING SHALL BE INSTALLED ON MASONRY JAMB SURFACES OF NEW DOOR AND WINDOWS OPENINGS UP TO THE WINDOW / DOOR UNIT. NEW STUCCO/ PARGING SHALL MATCH EXISTING IN TEXTURE AND COLOR. NEW STUCCO / PARGING SHALL BE A THREE-COAT SYSTEM (SCRATCH COAT, BROWN COAT AND FINISH COAT) WITH A GLASS FIBER REINFORCED LATH. BASIS-OF-DESIGN IS "SENERGY" BRAND, "SENERGY SENTRY STUCCO WALL SYSTEM PERMALATH 1000" WITH PRE-MIXED "SENTRY STUCCO BASE" AND "SENERLASTIC" FINISH COAT WITH TEXTURE TO MATCH EXISTING. CONTROL JOINTS TO BE ALIGNED WITH OPENINGS.
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 AU. GYPSUM BOARD: SEE PARTITION SCHEDULE. MOLD & MOISTURE RESISTANT GYPSUM
- BOARD IN ALL WET AREAS RESTROOMS, KITCHENS, LAUNDRY, BASEMENTS.

 AV. STORM WINDOWS: FRAME WIDTH CANNOT REDUCE THE DAYLIGHT OPENING OF THE WINDOW & THE CENTER CHECK RAIL MUST ALIGN WITH THE WINDOW CENTER CHECK RAIL. NO SCREENS.
- AW.PROVIDE UNIT ENTRY SIGNAGE PER FINISH SCHEDULE AT EACH RESIDENTIAL UNIT ENTRY.
 FINAL LOCATION TO BE DETERMINED BY OWNER. IF MOUNTING ON DOOR, ENSURE
 INSTALLATION DOES NOT VOID RATING OF DOOR ASSEMBLY.
- AX. PROVIDE BLINDS AT RESIDENTIAL UNITS PER FINISH SCHEDULE. QUANTITY AND LOCATIONS BY OWNER.

Ecture + design

KURT KURT 10833 CONTRIBUTION WWW

KURT PLATTE 10833 EXP DATE 12.31.2023

Progress Dates 2023.04.28 - BID/PERMIT

Revisions

MR, AM

Design Team:
CO, JK, MR, MR, RK, RO, SO, TB
Drawn by:

OVATION FOR 06 REPUBLIC

Job No: 22042 04/28/2023

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5.1 NEW CONTINUOUS STEEL PIPE HANDRAIL. SEE DETAILS. 5.2 NEW STEEL PIPE GUARDRAIL. SEE DETAILS. 5.3 REPAIR/RETAIN EXG FIRE ESCAPE AND REPAINT BLACK.

6. WOOD, PLASTICS, AND COMPOSITES

6.1 REPAIR DAMAGED WOOD STAIR TREADS/RISERS AS REQ'D.

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6.5 NEW WOOD STRUCTURAL MEMBERS. SEE STRUCTURAL DRAWINGS. 6.6 NEW WOOD FRAME BEARING WALL. SEE STRUCTURAL

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> SECURITY CONTRACTOR. 10.3 CLOSETS W/ BLOCKING AT RODS & BRACKETS. PROVIDE 12" MELAMINE SHELF & CLOTHES ROD @ 66" A.F.F.; TYP U.N.O.: A. TYP. REACH-IN CLOSET

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10.4 PROVIDE "NO SMOKING" SIGN AT EXTERIOR WALL. 10.5 FIRE EXTINGUISHER. COORDINATE FINAL LOCATION WITH LOCAL FIRE MARSHAL.

A. SURFACE MOUNTED. B. IN SINK CABINET IN RESIDENTIAL UNIT, TYPICAL.

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21.1 APPROX LOCATION OF FDC CONNECTION - COORDINATE W/ FIRE DEPT.

INSTALL PER MANUF'S INSTRUCTS. COORDINATE WITH FIRE

21.2 SPRINKLER RISER. SEE PLUMBING DWGS. 21.3 EXTERIOR TAMPER/FLOW NOTIFICATION DEVICE -COORDINATE WITH ELECTRICAL AND FIRE PROTECTION

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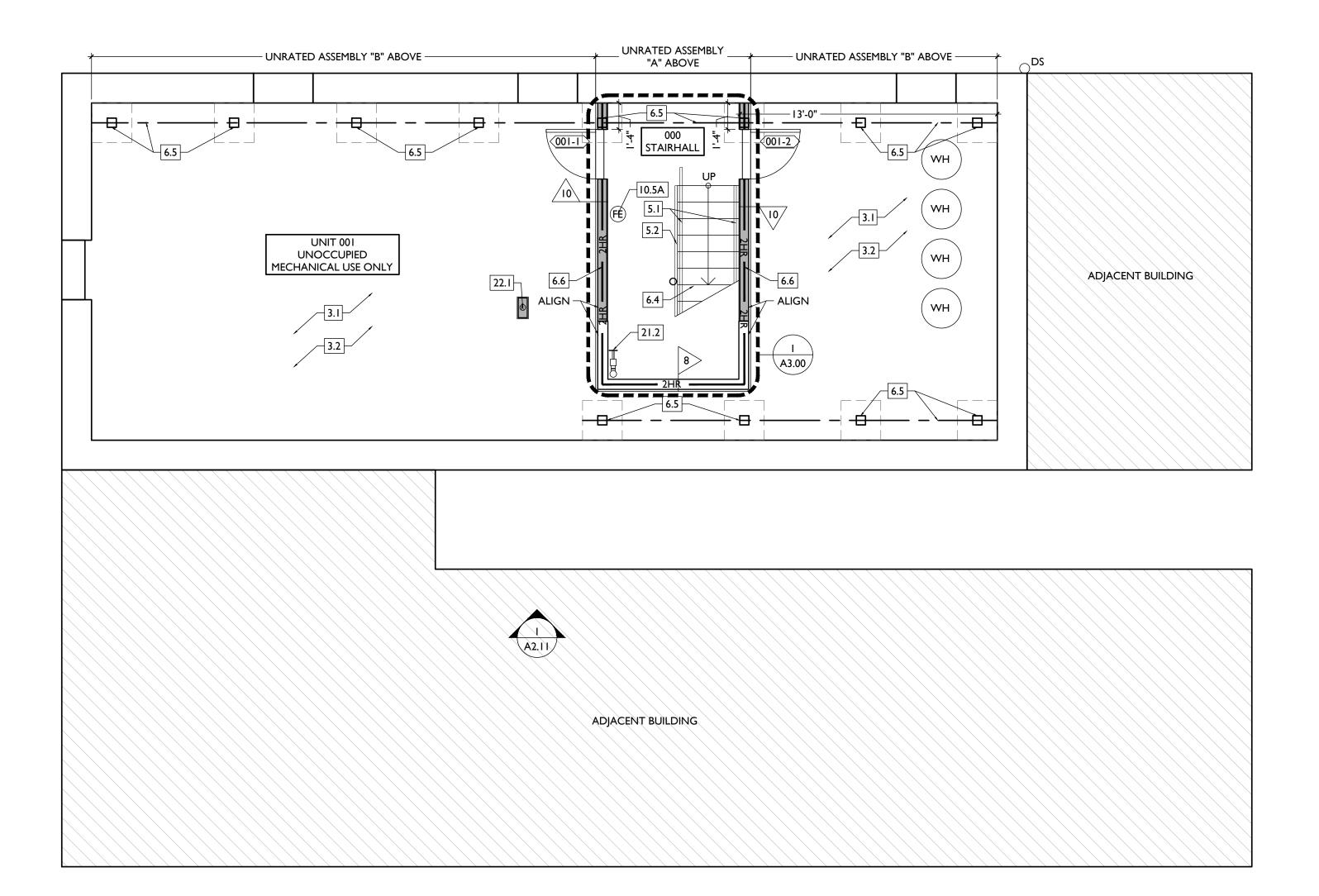
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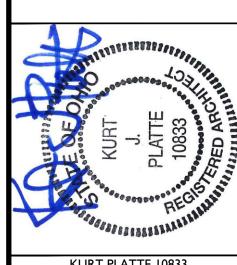
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26. ELECTRICAL







EXP DATE 12.31.2023 Progress Dates 2023.04.28 - BID/PERMIT

Design Team:
CO, JK, MR, MR, RK, RO, SO, TB
Drawn by:
MR, AM

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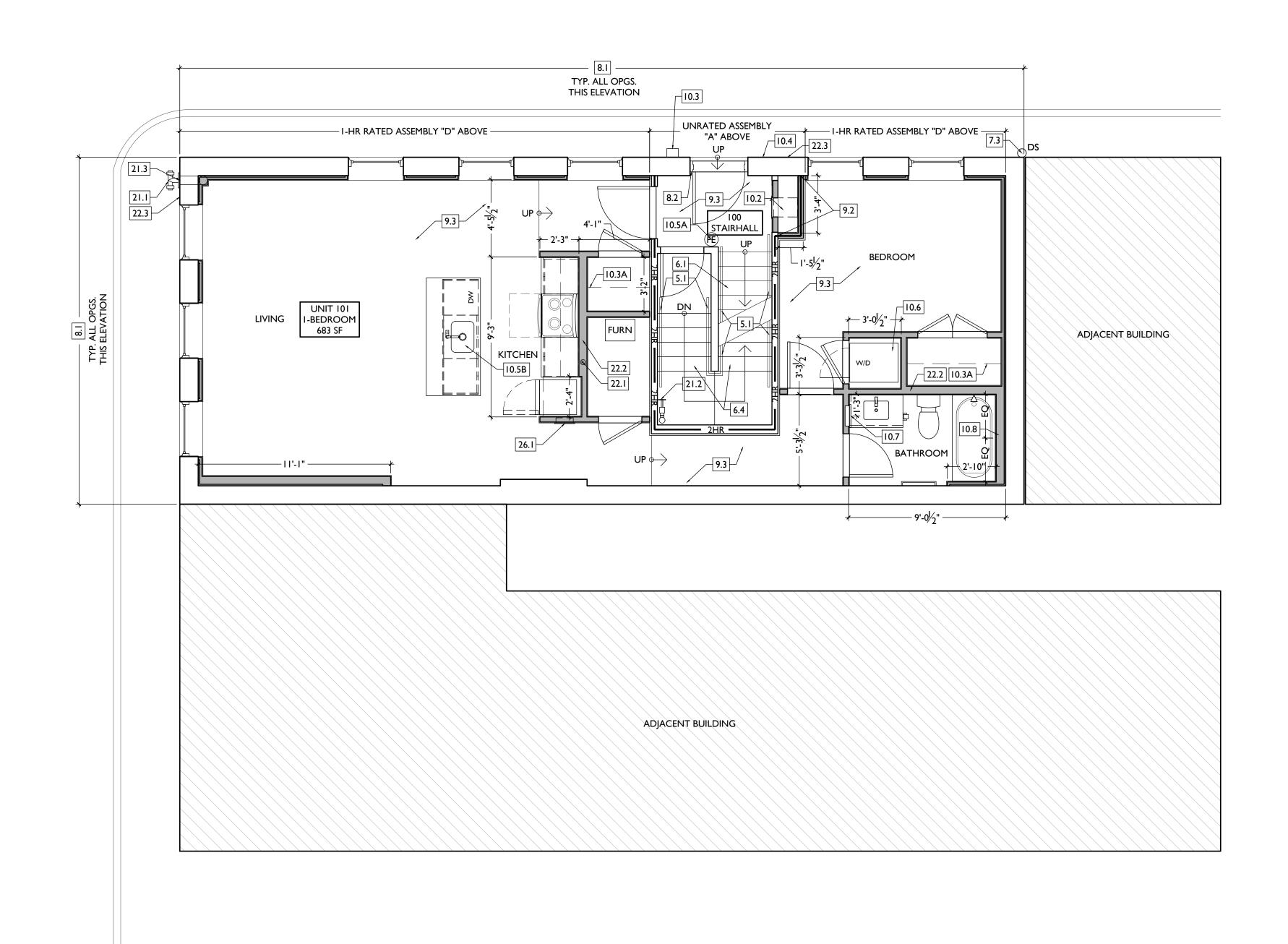
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NEW WORK GRAPHIC KEY:

PARTITION TYPE - TYPE I U.N.O.





EXP DATE 12.31.2023 Progress Dates 2023.04.28 - BID/PERMIT

Revisions

Design Team:
CO, JK, MR, MR, RK, RO, SO, TB
Drawn by:
MR, AM

PUBLIC

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3.1 SLAB TO REMAIN. SCOPE & VERIFY FLOOR DRAINS CONNECT TO BASIS OF DESIGN = BILCO E50TB, 48"X48". SEWER. REPAIR AS REQUIRED. 3.2 VAPOR MITIGATION SYSTEM BELOW SLAB, AS REQUIRED BY OWNER'S CONSULTANT. SEE CONSULTANT DESIGN FOR

SYSTEM DETAILS AND LOCATIONS OF VERTICAL VENTS. SEE

4. MASONRY

4.1 TUCKPOINT BRICK AS SHOWN ON STRUCTURAL ELEVATIONS & PER SHPO NARRATIVE.

5. METALS

5.1 NEW CONTINUOUS STEEL PIPE HANDRAIL. SEE DETAILS. 5.2 NEW STEEL PIPE GUARDRAIL. SEE DETAILS. 5.3 REPAIR/RETAIN EXG FIRE ESCAPE AND REPAINT BLACK.

6. WOOD, PLASTICS, AND COMPOSITES

6.1 REPAIR DAMAGED WOOD STAIR TREADS/RISERS AS REQ'D. 6.2 NEW RAKE TRIM & GUTTERBOARD TO MATCH EXISTING - SEE 10.1 LOCKABLE & RECESSED MAILBOXES. BOXES TO MEET USPS-4C

6.3 REPAIR/RETAIN EXG CORNICE. REPAINT. 6.4 NEW WOOD BASEMENT STAIR IN PREVIOUS LOCATION. SEE 10.2 SURFACE MOUNTED ENTRY SECURITY SYSTEM CALL BOX BY

DETAILS, SECTIONS, AND STRUCTURAL DWGS. 6.5 NEW WOOD STRUCTURAL MEMBERS. SEE STRUCTURAL DRAWINGS. 6.6 NEW WOOD FRAME BEARING WALL. SEE STRUCTURAL

DRAWINGS.

AREA OF NEW FRAMING/SHEATHING/DECKING. SEE STRUCTURAL DRAWINGS.

THERMAL AND MOISTURE PROTECTION

MASONRY OPENING PER DETAILS.

REPAIRED, WHERE POSSIBLE.

9.6 NEW HARDWOOD FLOORING.

SECURITY CONTRACTOR.

A. TYP. REACH-IN CLOSET

10. SPECIALTIES

9.2 FIRE-RATING TO BE CONTINUOUS BEHIND

DOOR SCHEDULE.

8.2 NEW EXTERIOR BUILDING ENTRY DOOR AND FRAME - SEE

PLUMBING/CHASE/FURRING WALL. FIRE RATING TO BE

10.3 CLOSETS W/ BLOCKING AT RODS & BRACKETS. PROVIDE 12"

MELAMINE SHELF & CLOTHES ROD @ 66" A.F.F.; TYP U.N.O.:

FIRE-RATING BEHIND MAILBOXES, WHEN REQ.

CONTINUOUS AT INTERSECTION W/ NON-RATED WALL.

REPAIR/RE-LINE EXG BOX GUTTER. 7.2 NEW ROUND ALUMINUM DOWNSPOUT PAINTED TO MATCH ADJACENT WALL SURFACE. SEE EXTERIOR ELEVATIONS. TIE INTO 10.6 PROVIDE DRAIN PAN BENEATH WASHING MACHINE/ WATER EXISTING SEWER SYSTEM.

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21. FIRE SUPPRESSION

21.1 APPROX LOCATION OF FDC CONNECTION - COORDINATE W/ FIRE DEPT. 8.1 NEW ALUMINUM CLAD WINDOW & TRIM INSTALLED IN

B. WALK-IN CLOSET.

A. SURFACE MOUNTED.

HEATER. SEE PLUMBING DWGS.

10.4 PROVIDE "NO SMOKING" SIGN AT EXTERIOR WALL.

INTERIOR ELEVATIONS AND FINISH SCHEDULE.

INSTALL PER MANUF'S INSTRUCTS. COORDINATE WITH FIRE

10.5 FIRE EXTINGUISHER. COORDINATE FINAL LOCATION WITH

C. ABOVE W/D.

LOCAL FIRE MARSHAL.

AND DETAIL I/A5.00.

21.2 SPRINKLER RISER. SEE PLUMBING DWGS. 21.3 EXTERIOR TAMPER/FLOW NOTIFICATION DEVICE -COORDINATE WITH ELECTRICAL AND FIRE PROTECTION

22. PLUMBING 9.1 EXG PLASTER AT MASONRY WALL TO BE PATCHED AND 22.1 PROVIDE PIPE IN WALL FRAMING FOR VAPOR MITIGATION RISER, AS REQUIRED BY OWNER'S CONSULTANT. RISER TO EXTEND FROM BASEMENT TO ATTIC. SEE CONSULTANT DESIGN FOR LOCATIONS OF RISERS. SEE NOTE 3.2. COORDINATE WITH

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A. ROOF <3:12, INSTALL C.U. ON SOUND ISOLATING PADS. 23.2 NEW EXHAUST/INTAKE LOUVER ON EXTERIOR OF BUILDING, PAINTED TO MATCH ADJACENT BRICK. SEE ELEVATIONS AND

NEW WORK PLANS & ELEVATIONS # KEYED NOTES:

MECHANICAL DRAWINGS.

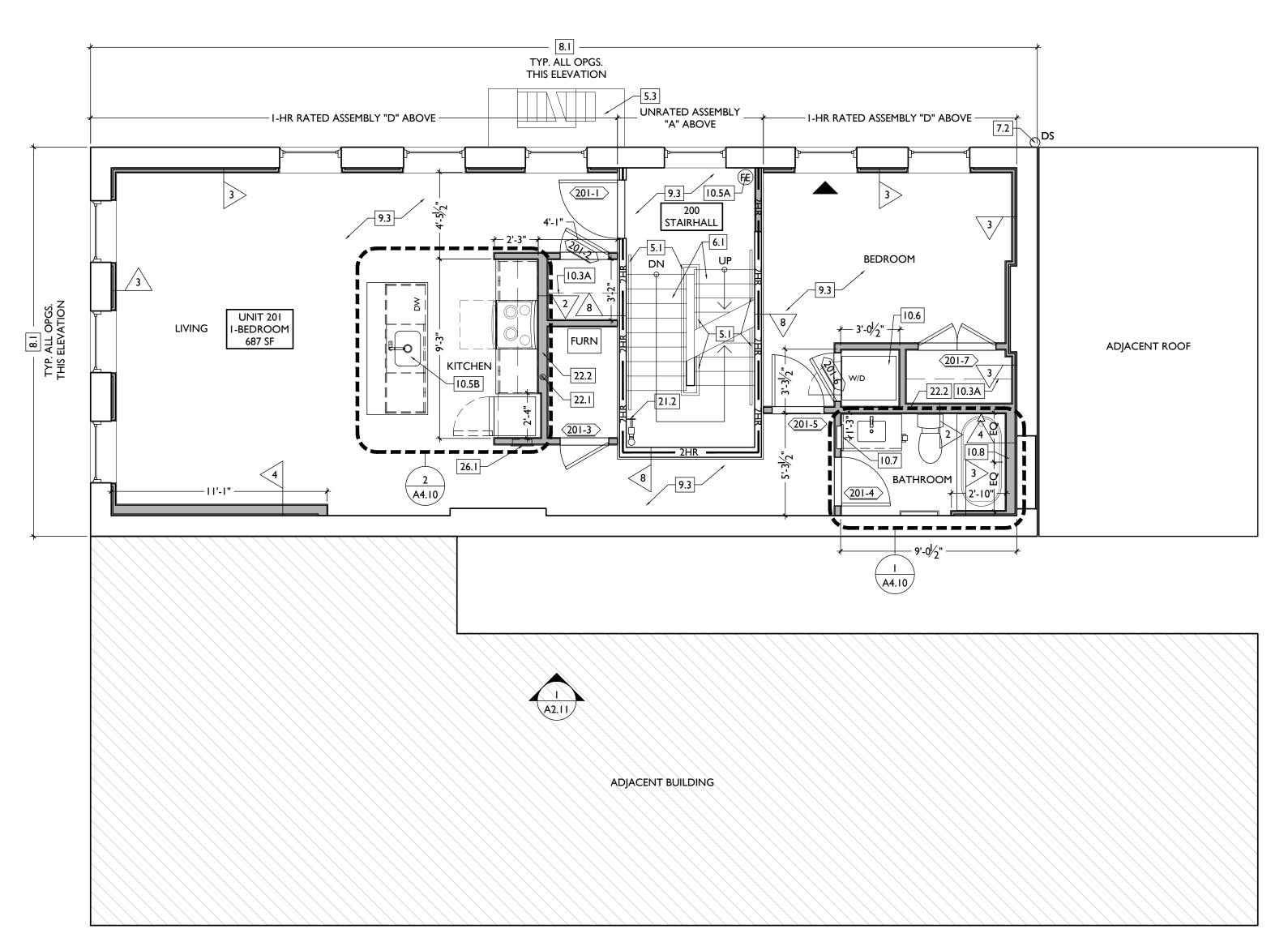
26. ELECTRICAL 26.1 ELECTRIC PANEL RECESSED IN WALL W/ 30"W X 36"D CLEAR IN FRONT. PAINT TO MATCH ADJACENT WALL W APPROPRIATE

PAINT TYPE FOR PANEL. B. IN SINK CABINET IN RESIDENTIAL UNIT, TYPICAL. 26.2 NEW EXTERIOR LIGHTING. NO EXPOSED CONDUIT ON FACE OF BUILDING.

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X'-X" ELEVATION TAG.

NEW WORK GRAPHIC KEY:





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Revisions

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6.3 REPAIR/RETAIN EXG CORNICE. REPAINT.

DETAILS, SECTIONS, AND STRUCTURAL DWGS.

6.5 NEW WOOD STRUCTURAL MEMBERS. SEE STRUCTURAL DRAWINGS.

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B. WALK-IN CLOSET.

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HEATER. SEE PLUMBING DWGS. 10.7 NEW RECESSED MEDICINE CABINET. SEE ENLARGED PLANS, INTERIOR ELEVATIONS AND FINISH SCHEDULE. 10.8 SHOWER NICHE. SEE ENLARGED PLANS, INTERIOR ELEVATIONS

AND DETAIL I/A5.00. TERMINATION BARS & METAL COUNTERFLASHING - SEE ROOF 10.9 RECESSED KEY LOCK BOX - BASIS OF DESIGN KNOXBOX 3200. INSTALL PER MANUF'S INSTRUCTS. COORDINATE WITH FIRE

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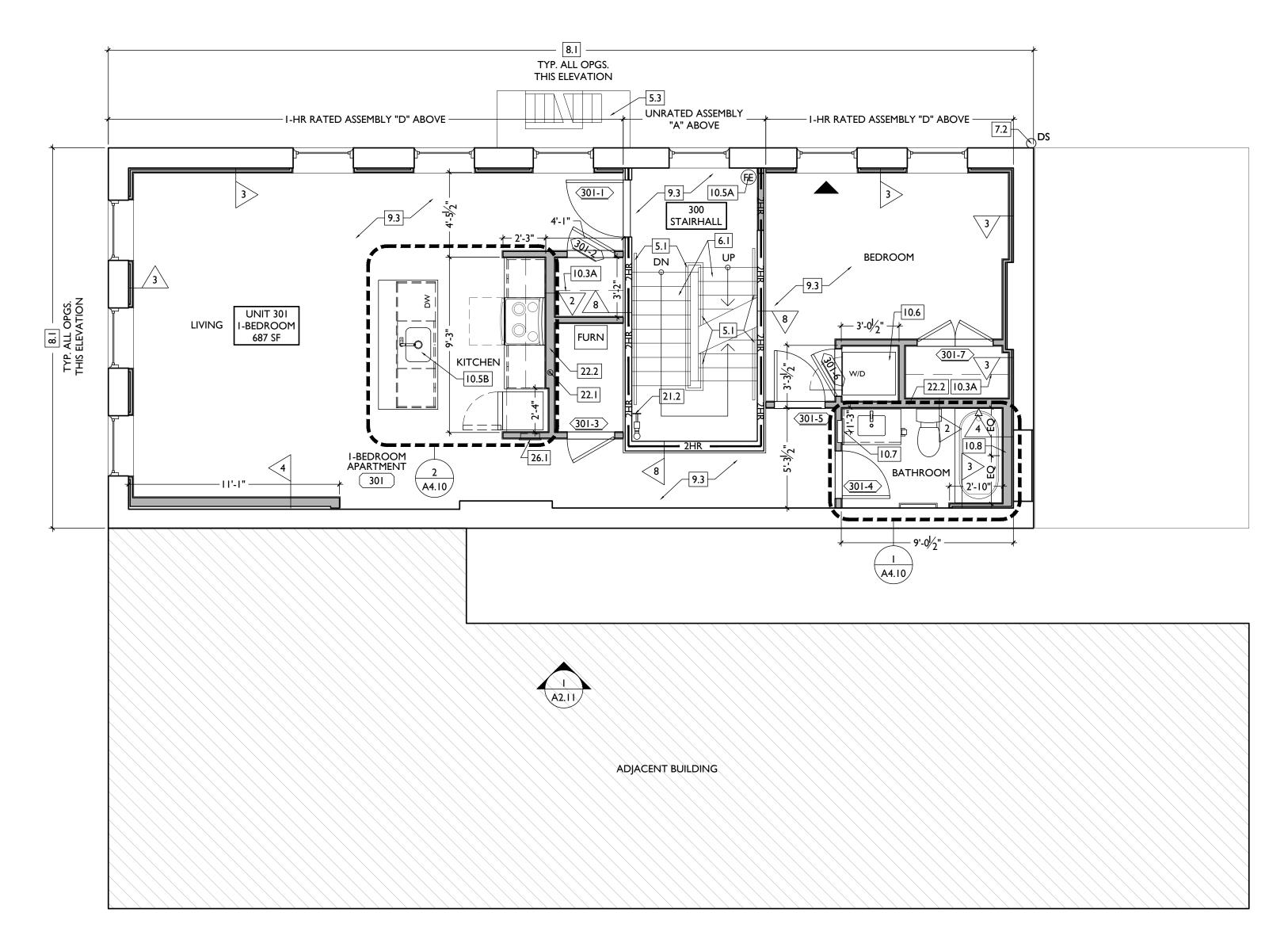
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NEW WORK GRAPHIC KEY:









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Progress Dates

Revisions

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Job No: 22042





7.3 NEW PVC AT LOWER 6' OF DOWNSPOUT. PAINT TO MATCH DOWNSPOUT. 4 NEW FULLY ADHERED WHITE TPO MEMBRANE ROOF W/

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10.3 CLOSETS W/ BLOCKING AT RODS & BRACKETS. PROVIDE 12" MELAMINE SHELF & CLOTHES ROD @ 66" A.F.F.; TYP U.N.O.: A. TYP. REACH-IN CLOSET

21.3 EXTERIOR TAMPER/FLOW NOTIFICATION DEVICE -COORDINATE WITH ELECTRICAL AND FIRE PROTECTION

LOCATIONS OF RISERS. SEE NOTE 3.2. COORDINATE WITH

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7.6 PROVIDE NEW DARK BRONZE METAL CAP AT CHIMNEY.

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NEW WORK PLANS & ELEVATIONS # KEYED NOTES: NEW WORK GRAPHIC KEY: MECHANICAL DRAWINGS. PARTITION TYPE - TYPE I U.N.O. 4 KEYNOTE.

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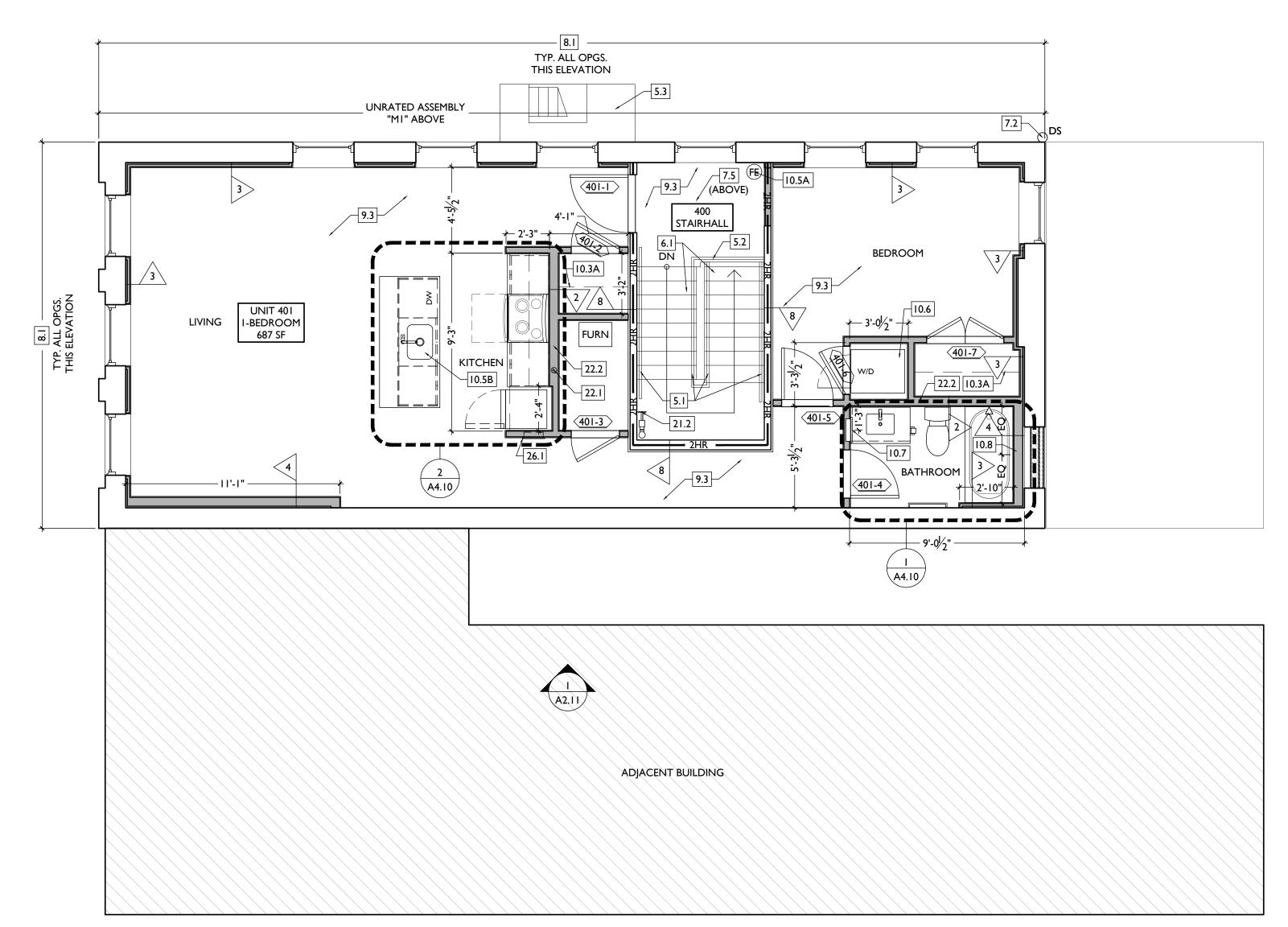
OF BUILDING.

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NEW WORK PLANS & ELEVATIONS # KEYED NOTES:

MECHANICAL DRAWINGS.

26. ELECTRICAL 26.1 ELECTRIC PANEL RECESSED IN WALL W/ 30"W X 36"D CLEAR IN FRONT. PAINT TO MATCH ADJACENT WALL W APPROPRIATE

PAINT TYPE FOR PANEL. 26.2 NEW EXTERIOR LIGHTING. NO EXPOSED CONDUIT ON FACE OF BUILDING.

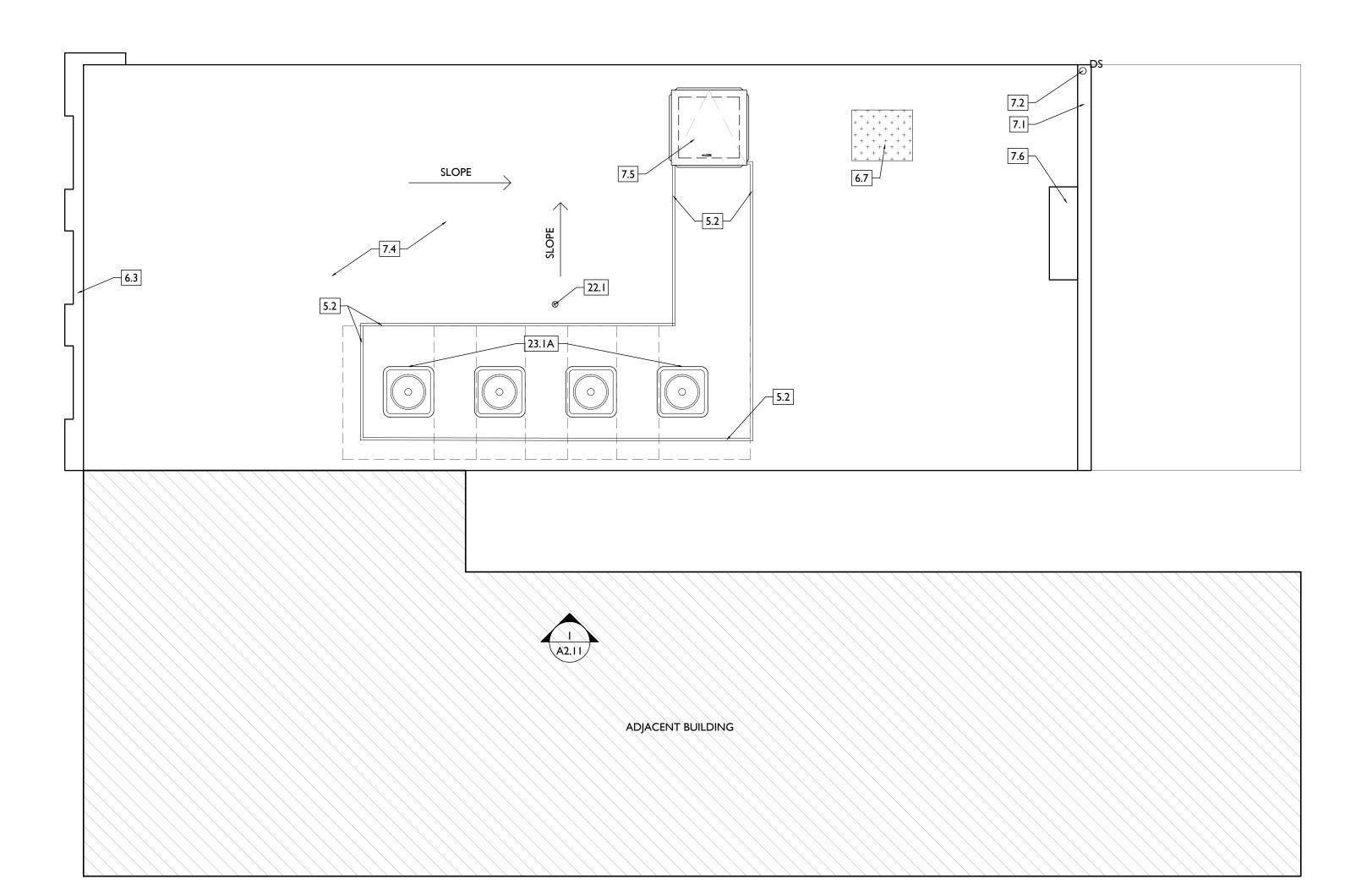
22.2 PLUMBING CHASE (OR WALL) - VERIFY LOCATIONS IN FIELD TO

EQUIPMENT. GUARDRAIL REQUIRED IF EQUIPMENT < 10' FROM ROOF EDGE. SEE HVAC & STRUCTURAL DWGS.

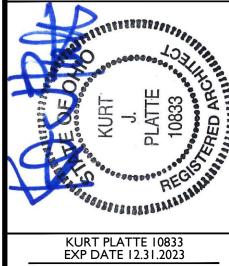
PAINTED TO MATCH ADJACENT BRICK. SEE ELEVATIONS AND

PARTITION TYPE - TYPE I U.N.O. 4 KEYNOTE. NEW PARTITION WALL. NEW MASONRY WALL. OBJECT OVERHEAD. — IHR — I-HR FIRE RATING. — 2HR — 2-HR FIRE RATING. NEW FLOOR & FRAMING TO MATCH ADJ - SEE STRUCT DWGS. NEW GYP BD SOFFIT/ BULKHEAD/ DROPPED CLG - SEE RCPS. AREA OF ATYPICAL FIRE-RATED ASSEMBLY ABOVE. DOOR TAG. SEE SCHEDULE. WINDOW DESIGNATION. <\$FA> STOREFRONT DESIGNATION. ▲/E EMERGENCY EGRESS EXIT. OPG CONTAINS TEMPERED GLAZING. SINGLE HUNG OPG - UPPER SASH TO BE FIXED WITHIN 3'-0" OF EXHAUST. X'-X" ELEVATION TAG.

NEW WORK GRAPHIC KEY:







Progress Dates

2023.04.28 - BID/PERMIT

Revisions

Design Team: CO, JK, MR, MR, RK, RO, SO, TB Drawn by: MR, AM

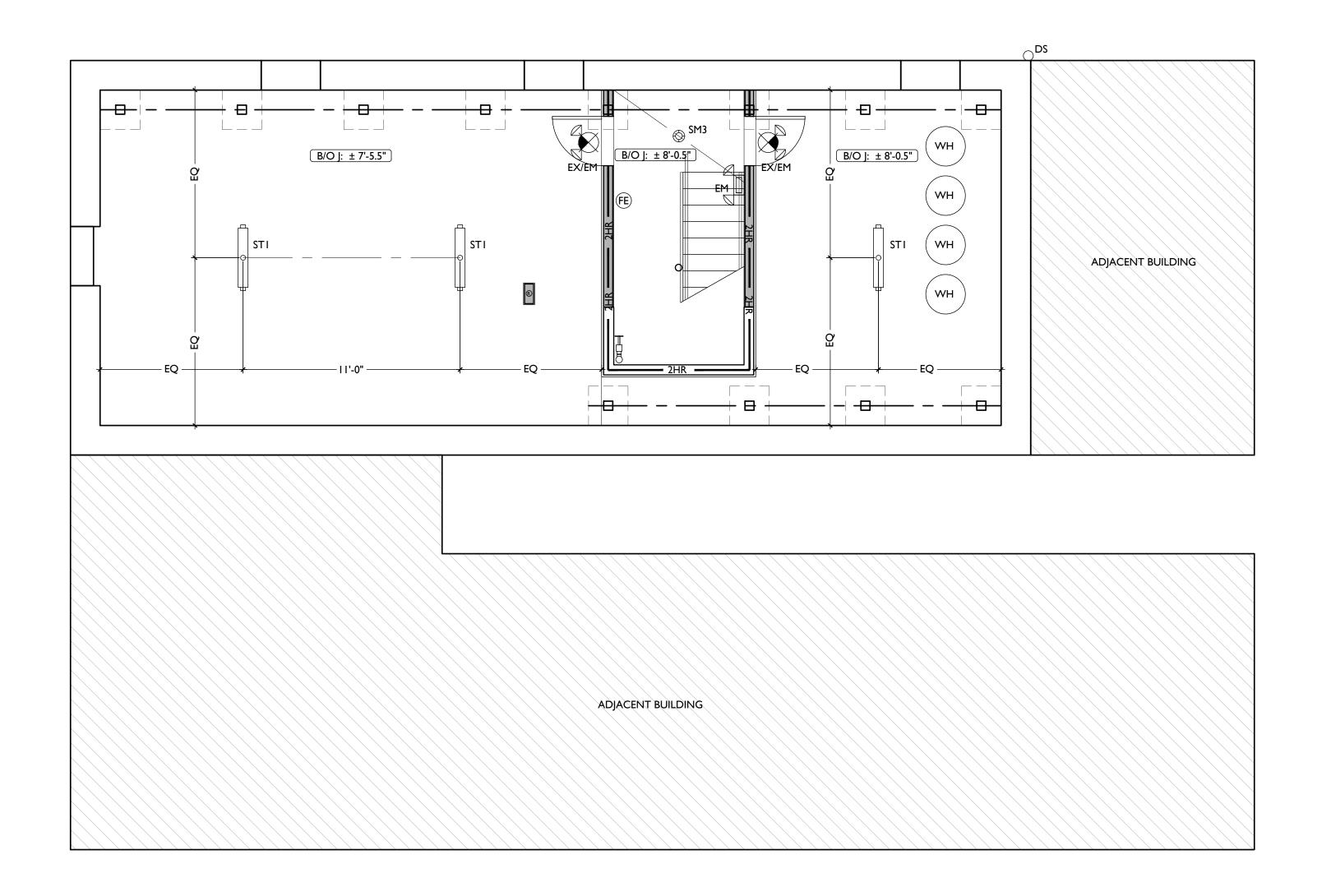
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Job No: 22042 04/28/2023

SCALE: 1/4" = 1'-0"

PROPOSED PLAN - ROOF

				REELEC	TED CEILING PLAN FIXTURE LEGEND:				REFLECTED CEILING PLAN GENERAL NOTES:		REFLECTED CEILING PLAN GRAPHIC KEY:
SYMBOL	FIXTURE TYPE	REMARKS	SYMBOL	FIXTURE TYPE	REMARKS	SYMBOL	FIXTURE TYPE	REMARKS	REI LECTED CEILING FLAIN GENERAL NOTES.		ALL LECTED CEILING FLAN GRAFFIIC RET.
© SMI	TIXTORE THE	SMI - GENERAL LIGHTS. PROVIDE DIMMERS IN RESIDENTIAL UNITS.		TIXTORE THE	NEI PARIS		EMERGENCY	LED REMOTE HEAD EMERGENCY EGRESS LIGHT	A. <u>NOTE:</u> THIS IS A HISTORIC TAX CREDIT PROJECT. ALL WORK MUST COMPLY W/ APPROVED. PART 2, INCLUDING AMENDMENTS. NO HISTORIC ELEMENTS SHALL BE REMOVED/MODIFIED UNLESS SPECIFICALLY INDICATED	CH: 8'-0"	CEILING HEIGHT TAG (TYP 8'-0" U.N.O.)
© SM2	SURFACE MOUNT LED CAN LIGHT	SM2 - DAMP RATED, TYPICAL IN SHOWERS.	FI	CEILING FAN WITH LIGHT	SMALL FAN, TYPICAL IN BEDROOMS AND LIVING ROOMS	RHI	EGRESS LIGHT		IN ARCH DWGS. B. IF A FIXTURE APPEARS TO BE CENTERED IN A SPACE, THEN CENTER IT. C. LOWERED CEILINGS AND SOFFITS SHALL BE 8'-0" HIGH A.F.F., U.N.O.		SOFFIT/LOWERED GYP BD CEILING
© SM3		SM3 - ALWAYS ON , TYPICAL IN COMMON STAIRHALLS				EM	EMERGENCY EGRESS LIGHT	EMERGENCY EGRESS LIGHT WALL PACK	D. CLG HTS AT EXG FLOORS ARE TO BE VI.F. E. ALL CEILING FINISHES IN OCCUPIED SPACES TO BE SMOOTH PAINTED		AREA OF ATYPICAL FIRE-RATING. SEE PLANS & SHEET A0.01
SM13	SURFACE MOUNT ENTRY LIGHT	STAIR HALL ENTRY VESTIBULE, IST FLOOR ONLY				EIM			DRYWALL U.N.O. SEE FINISH SCHEDULE FOR PAINT COLORS. F. BASEMENTS & UNOCCUPIED ATTICS TO HAVE EXPOSED JOISTS - NO FINISH	<u> </u>	
SM8	SURFACE MOUNT LINEAR LED	TYPICAL IN COMMERCIAL TURNKEY SPACES	F2	CEILING FAN WITH LIGHT	LARGE FAN, TYPICAL IN BEDROOM AND LIVING ROOM				CLGS U.N.O. G. ALL SOFFITS OVER KITCHEN CABINETS TO BE 8'-0" AFF AND 2'-1 1/2" WIDE MINIMUM. H. PROVIDE UNDER-CABINET LIGHTING BENEATH ALL UPPER KITCHEN CABINETS IN RESIDENTAL UNITS. SEE ELEC DWGS. I. SEE EXTERIOR ELEVATIONS FOR MOUNTING HEIGHTS OF EXTERIOR LIGHTS. I. SEE ELECTRICAL DRAWINGS FOR FIXTURE SPECIFICATIONS.	(NL) (OS)	WATER CURTAIN HEAD TO PROVIDE 100% COVERAGE OF WINDOW- COORD W/ F.P PLANS DENOTES NIGHT LIGHT FIXTURE DENOTES OCCUPANCY SENSOR
□ ○ □ STI	SURFACE MOUNT UTILITY FIXTURE	TYPICAL IN ATTICS AND IN BASEMENTS	WMI Q	WALL MOUNT EXTERIOR LIGHT	EXTERIOR ARCHITECTURAL UP-DOWN LIGHT				K. ANY FIXTURES LOCATED IN AREAS WITH REMAINING HISTORIC TIN CEILINGS SHOULD BE CENTERED ON THE CEILING TILES, RATHER THAN PERFECTLY CENTERED IN THE SPACE. ADJUST THE GRID PLACEMENT/DIMENSIONS BY A FEW INCHES AS REQUIRED TO		COMBO SMOKE/CARBON MONOXIDE DETECTOR: IONIZATION (TYP BEDROOMS) PHOTOELECTRIC
VI		VI - TYPICAL OVER BATHROOM VANITIES IN TYPICAL RESIDENTIAL UNITS.	⊕ WM5	WALL MOUNT EXTERIOR LIGHT	EXTERIOR ARCHITECTURAL GOOSENECK LIGHT				ACCOMMODATE THIS.	<u>⊕</u> - —	CENTER ON ARCHITECTURAL FEATURE
V2 □		V2 - TYPICAL ON SIDES OF BATHROOM VANITIES IN TYPICAL RESIDENTIAL UNITS.									STRUCTURAL MEMBER - SEE STRUCTURAL DWGS
7 TL		DIMMABLE, TYPICAL IN COMMERCIAL TURNKEY SPACES AND IN LOBBIES	ES	EMERGENCY EGRESS LIGHT	EMERGENCY EGRESS EXIT SIGN						
	SURFACE MOUNT PENDANT	TYPICAL OVER KITCHEN ISLANDS	ESL	EMERGENCY EGRESS LIGHT	EMERGENCY EGRESS EXIT SIGN W/ LIGHTS						
			S _{EFI}	BATHROOM VENT	TYPICAL BATHROOM EXHAUST FAN/VENT						
			<u> </u>								





KURT PLATTE 10833 EXP DATE 12.31.2023 Progress Dates

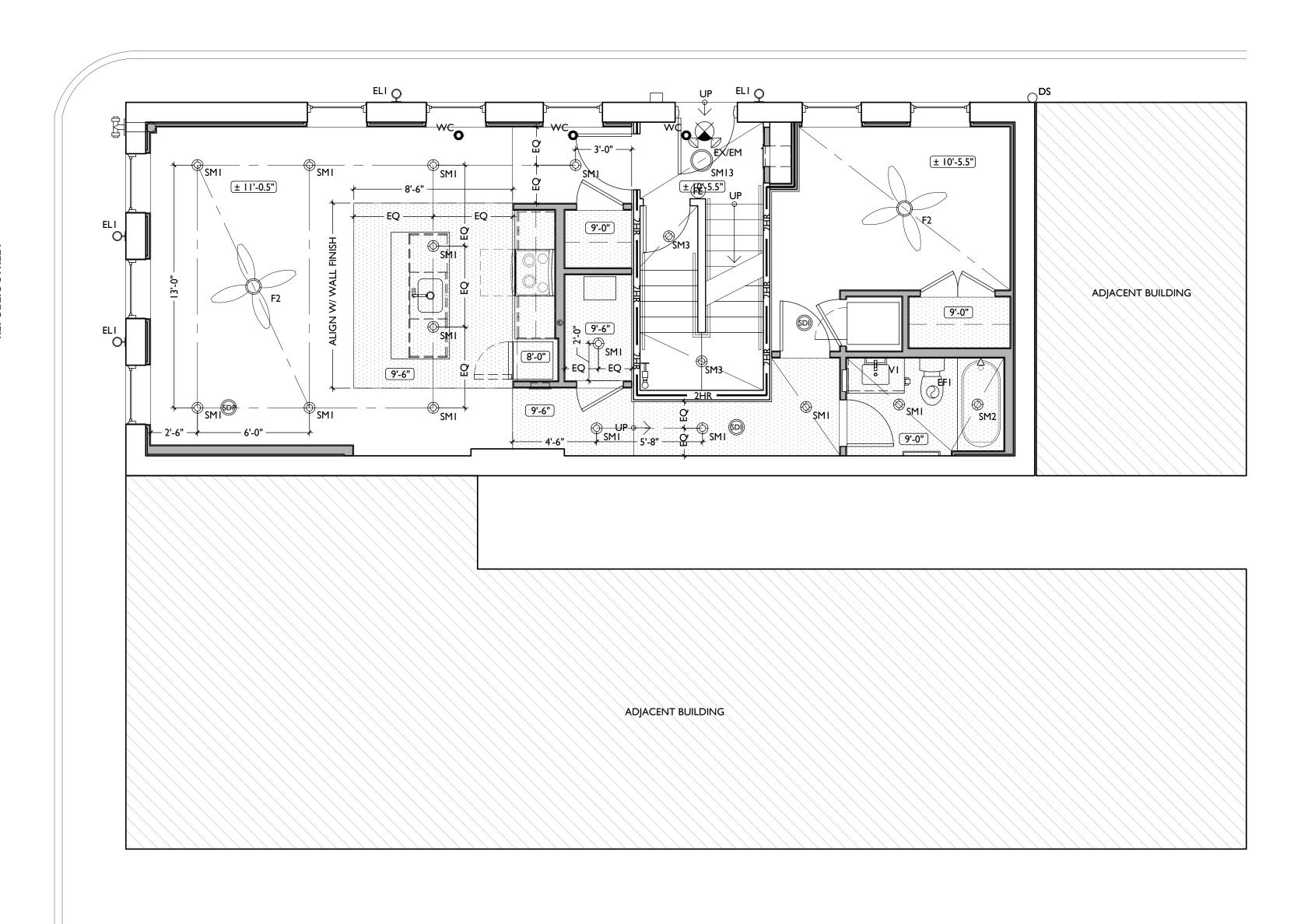
2023.04.28 - BID/PERMIT

Design Team: CO, JK, MR, MR, RK, RO, SO, TB Drawn by: MR, AM

REPUBLIC

				REFLEC	TED CEILING PLAN FIXTURE LEGEND:				REFLECTED CEILING PLAN GENERAL NOTES:		REFLECTED CEILING PLAN GRAPHIC KEY:
SYMBOL	FIXTURE TYPE	REMARKS	SYMBOL	FIXTURE TYPE	REMARKS	SYMBOL	FIXTURE TYPE	REMARKS			
⊕ smi	SURFACE MOUNT	SMI - GENERAL LIGHTS. PROVIDE DIMMERS IN RESIDENTIAL UNITS.				RHI	EMERGENCY EGRESS LIGHT	LED REMOTE HEAD EMERGENCY EGRESS LIGHT	A. NOTE: THIS IS A HISTORIC TAX CREDIT PROJECT. ALL WORK MUST COMPLY W/ APPROVED. PART 2, INCLUDING AMENDMENTS. NO HISTORIC ELEMENTS SHALL BE REMOVED/MODIFIED UNLESS SPECIFICALLY INDICATED	CH: 8'-0"	CEILING HEIGHT TAG (TYP 8'-0" U.N.O.)
SM2 SM3	LED CAN LIGHT	SM2 - DAMP RATED, TYPICAL IN SHOWERS.	FI	CEILING FAN WITH LIGHT	SMALL FAN, TYPICAL IN BEDROOMS AND LIVING ROOMS		EMED CENTCA		IN ARCH DWGS. B. IF A FIXTURE APPEARS TO BE CENTERED IN A SPACE, THEN CENTER IT. C. LOWERED CEILINGS AND SOFFITS SHALL BE 8'-0" HIGH A.F.F., U.N.O.		SOFFIT/LOWERED GYP BD CEILING
₩ SM3		SM3 - ALWAYS ON , TYPICAL IN COMMON STAIRHALLS				EM	EMERGENCY EGRESS LIGHT	EMERGENCY EGRESS LIGHT WALL PACK	D. CLG HTS AT EXG FLOORS ARE TO BE VI.F. E. ALL CEILING FINISHES IN OCCUPIED SPACES TO BE SMOOTH PAINTED		AREA OF ATYPICAL FIRE-RATING. SEE PLANS & SHEET A0.01
SM13	SURFACE MOUNT ENTRY LIGHT	STAIR HALL ENTRY VESTIBULE, IST FLOOR ONLY				EM			DRYWALL U.N.O. SEE FINISH SCHEDULE FOR PAINT COLORS. F. BASEMENTS & UNOCCUPIED ATTICS TO HAVE EXPOSED JOISTS - NO FINISH	<u> </u>	
				CEILING FAN WITH LIGHT	LARGE FAN, TYPICAL IN BEDROOM AND LIVING ROOM				CLGS U.N.O. G. ALL SOFFITS OVER KITCHEN CABINETS TO BE 8'-0" AFF AND 2'-1 1/2" WIDE MINIMUM.	WC O	WATER CURTAIN HEAD TO PROVIDE 100% COVERAGE OF WINDOW- COORD W/ F.P PLANS
	SURFACE MOUNT LINEAR LED	TYPICAL IN COMMERCIAL TURNKEY SPACES	F2	WITH LIGHT					H. PROVIDE UNDER-CABINET LIGHTING BENEATH ALL UPPER KITCHEN CABINETS IN RESIDENTAL UNITS. SEE ELEC DWGS.	(NL)	DENOTES NIGHT LIGHT FIXTURE
SM8									I. SEE EXTERIOR ELEVATIONS FOR MOUNTING HEIGHTS OF EXTERIOR LIGHTS. J. SEE ELECTRICAL DRAWINGS FOR FIXTURE SPECIFICATIONS.	(OS)	DENOTES OCCUPANCY SENSOR
C O STI	SURFACE MOUNT UTILITY FIXTURE	TYPICAL IN ATTICS AND IN BASEMENTS	WMI Q	WALL MOUNT EXTERIOR LIGHT	EXTERIOR ARCHITECTURAL UP-DOWN LIGHT				K. ANY FIXTURES LOCATED IN AREAS WITH REMAINING HISTORIC TIN CEILINGS SHOULD BE CENTERED ON THE CEILING TILES, RATHER THAN PERFECTLY CENTERED IN THE SPACE. ADJUST THE GRID		COMBO SMOKE/CARBON MONOXIDE DETECTOR IONIZATION (TYP BEDROOMS)
ΓVI		VI - TYPICAL OVER BATHROOM VANITIES IN TYPICAL RESIDENTIAL UNITS.	_@ WM5	WALL MOUNT	EXTERIOR ARCHITECTURAL GOOSENECK LIGHT				PLACEMENT/DIMENSIONS BY A FEW INCHES AS REQUIRED TO ACCOMMODATE THIS.	— — — ——	PHOTOELECTRIC CENTER ON ARCHITECTURAL FEATURE
V2		V2 - TYPICAL ON SIDES OF BATHROOM VANITIES IN TYPICAL RESIDENTIAL UNITS.		EXTERIOR LIGHT							STRUCTURAL MEMBER - SEE STRUCTURAL DWGS
ŢLI	SURFACE MOUNT	DIMMABLE, TYPICAL IN COMMERCIAL TURNKEY SPACES AND IN LOBBIES	 E S	EMERGENCY EGRESS LIGHT	EMERGENCY EGRESS EXIT SIGN						
	SURFACE MOUNT PENDANT	TYPICAL OVER KITCHEN ISLANDS	ESL	EMERGENCY EGRESS LIGHT	EMERGENCY EGRESS EXIT SIGN W/ LIGHTS						
			S _{EFI}	BATHROOM VENT	TYPICAL BATHROOM EXHAUST FAN/VENT						

BARDES ALLEY





LATTE

KURT PLATTE 10833

KURT PLATTE 10833 EXP DATE 12.31.2023 Progress Dates 2023.04.28 - BID/PERMIT

Revisions

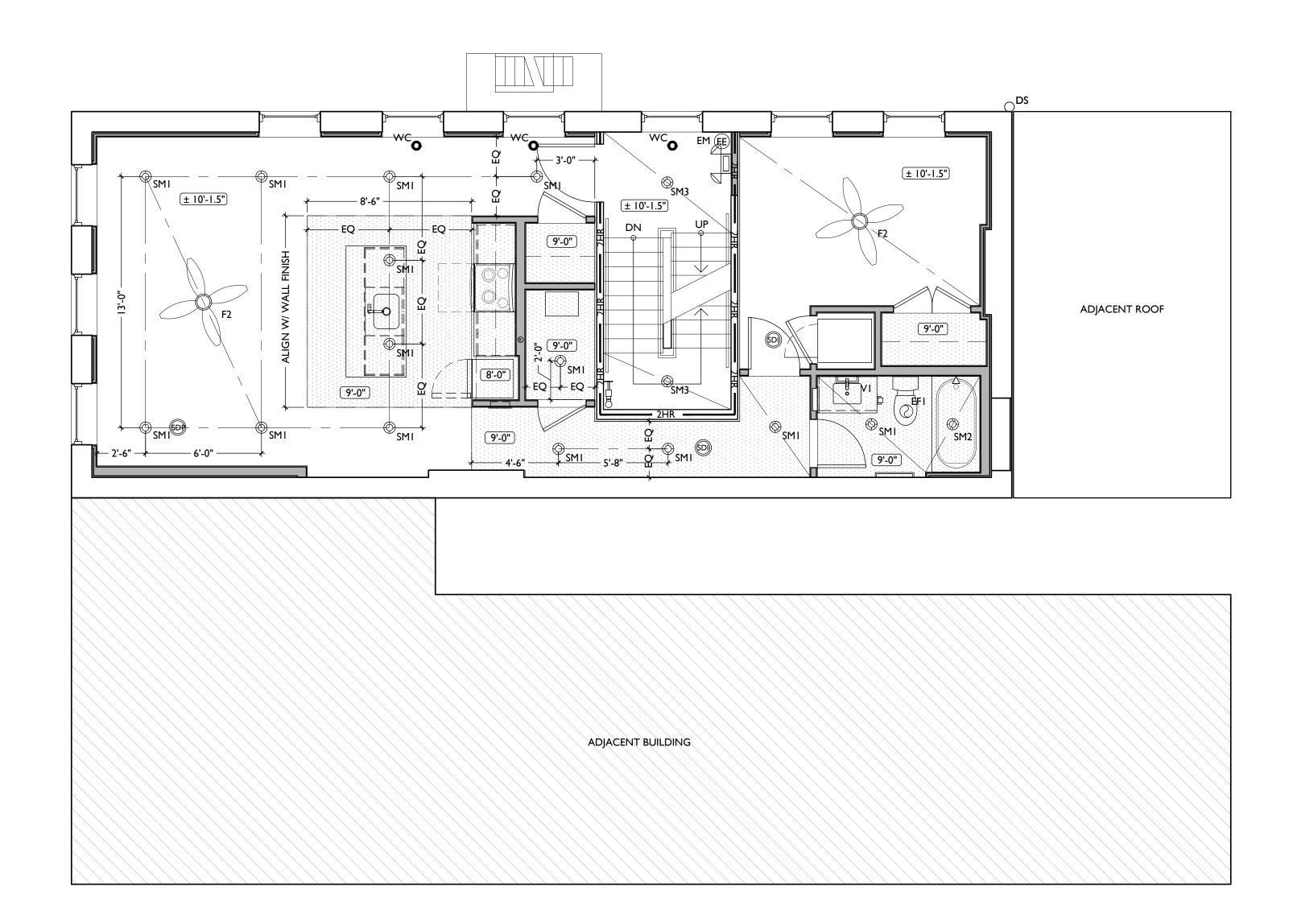
Design Team: CO, JK, MR, MR, RK, RO, SO, TB Drawn by: MR, AM

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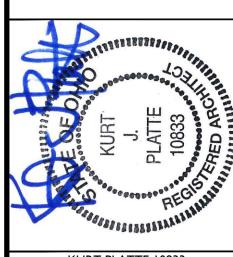
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				REFLEC	TED CEILING PLAN FIXTURE LEGEND:				REFLECTED CEILING PLAN GENERAL NOTES:	F	REFLECTED CEILING PLAN GRAPHIC KEY:
SYMBOL	FIXTURE TYPE	REMARKS	SYMBOL	FIXTURE TYPE	REMARKS	SYMBOL	FIXTURE TYPE	REMARKS	A. NOTE: THIS IS A HISTORIC TAX CREDIT PROJECT. ALL WORK MUST		CELLING LIFECULT TAG (TVP OI OILLING)
© _{SMI}		SMI - GENERAL LIGHTS. PROVIDE DIMMERS IN RESIDENTIAL UNITS.				\triangle	EMERGENCY	LED REMOTE HEAD EMERGENCY EGRESS LIGHT	COMPLY W/ APPROVED. PART 2, INCLUDING AMENDMENTS. NO HISTORIC ELEMENTS SHALL BE REMOVED/MODIFIED UNLESS SPECIFICALLY INDICATED	(CH: 8'-0")	CEILING HEIGHT TAG (TYP 8'-0" U.N.O.)
⊕ _{SM2}	SURFACE MOUNT LED CAN LIGHT	SM2 - DAMP RATED, TYPICAL IN SHOWERS.	FI	CEILING FAN WITH LIGHT	SMALL FAN, TYPICAL IN BEDROOMS AND LIVING ROOMS	RHI	EGRESS LIGHT		IN ARCH DWGS. B. IF A FIXTURE APPEARS TO BE CENTERED IN A SPACE, THEN CENTER IT.		SOFFIT/LOWERED GYP BD CEILING
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SM13	SURFACE MOUNT ENTRY LIGHT	STAIR HALL ENTRY VESTIBULE, IST FLOOR ONLY							DRYWALL U.N.O. SEE FINISH SCHEDULE FOR PAINT COLORS. F. BASEMENTS & UNOCCUPIED ATTICS TO HAVE EXPOSED JOISTS - NO FINISH CLGS U.N.O.		
	CLUDEA CE MOLINIT		F2	CEILING FAN WITH LIGHT	LARGE FAN, TYPICAL IN BEDROOM AND LIVING ROOM				G. ALL SOFFITS OVER KITCHEN CABINETS TO BE 8'-0" AFF AND 2'-1 1/2" WIDE MINIMUM.	WCO	WATER CURTAIN HEAD TO PROVIDE 100% COVERAGE OF WINDOW- COORD W/ F.P PLANS
SM8	SURFACE MOUNT LINEAR LED	TYPICAL IN COMMERCIAL TURNKEY SPACES							H. PROVIDE UNDER-CABINET LIGHTING BENEATH ALL UPPER KITCHEN CABINETS IN RESIDENTAL UNITS. SEE ELEC DWGS. I. SEE EXTERIOR ELEVATIONS FOR MOUNTING HEIGHTS OF EXTERIOR LIGHTS.	(NL) (OS)	DENOTES NIGHT LIGHT FIXTURE DENOTES OCCUPANCY SENSOR
STI	SURFACE MOUNT UTILITY FIXTURE	TYPICAL IN ATTICS AND IN BASEMENTS	WMI Q	WALL MOUNT EXTERIOR LIGHT	EXTERIOR ARCHITECTURAL UP-DOWN LIGHT				J. SEE ELECTRICAL DRAWINGS FOR FIXTURE SPECIFICATIONS. K. ANY FIXTURES LOCATED IN AREAS WITH REMAINING HISTORIC TIN CEILINGS SHOULD BE CENTERED ON THE CEILING TILES, RATHER THAN PERFECTLY CENTERED IN THE SPACE. ADJUST THE GRID PLACEMENT/DIMENSIONS BY A FEW INCHES AS REQUIRED TO		COMBO SMOKE/CARBON MONOXIDE DETECTOR: IONIZATION (TYP BEDROOMS) PHOTOELECTRIC
Γ		VI - TYPICAL OVER BATHROOM VANITIES IN TYPICAL RESIDENTIAL UNITS.	⊕ WM5	WALL MOUNT EXTERIOR LIGHT	EXTERIOR ARCHITECTURAL GOOSENECK LIGHT				ACCOMMODATE THIS.	_ 0	CENTER ON ARCHITECTURAL FEATURE
V2		V2 - TYPICAL ON SIDES OF BATHROOM VANITIES IN TYPICAL RESIDENTIAL UNITS.									STRUCTURAL MEMBER - SEE STRUCTURAL DWGS
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	SURFACE MOUNT PENDANT	TYPICAL OVER KITCHEN ISLANDS	ESL	EMERGENCY EGRESS LIGHT	EMERGENCY EGRESS EXIT SIGN W/ LIGHTS						
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LATTE



KURT PLATTE 10833 EXP DATE 12.31.2023 Progress Dates 2023.04.28 - BID/PERMIT

Revisions

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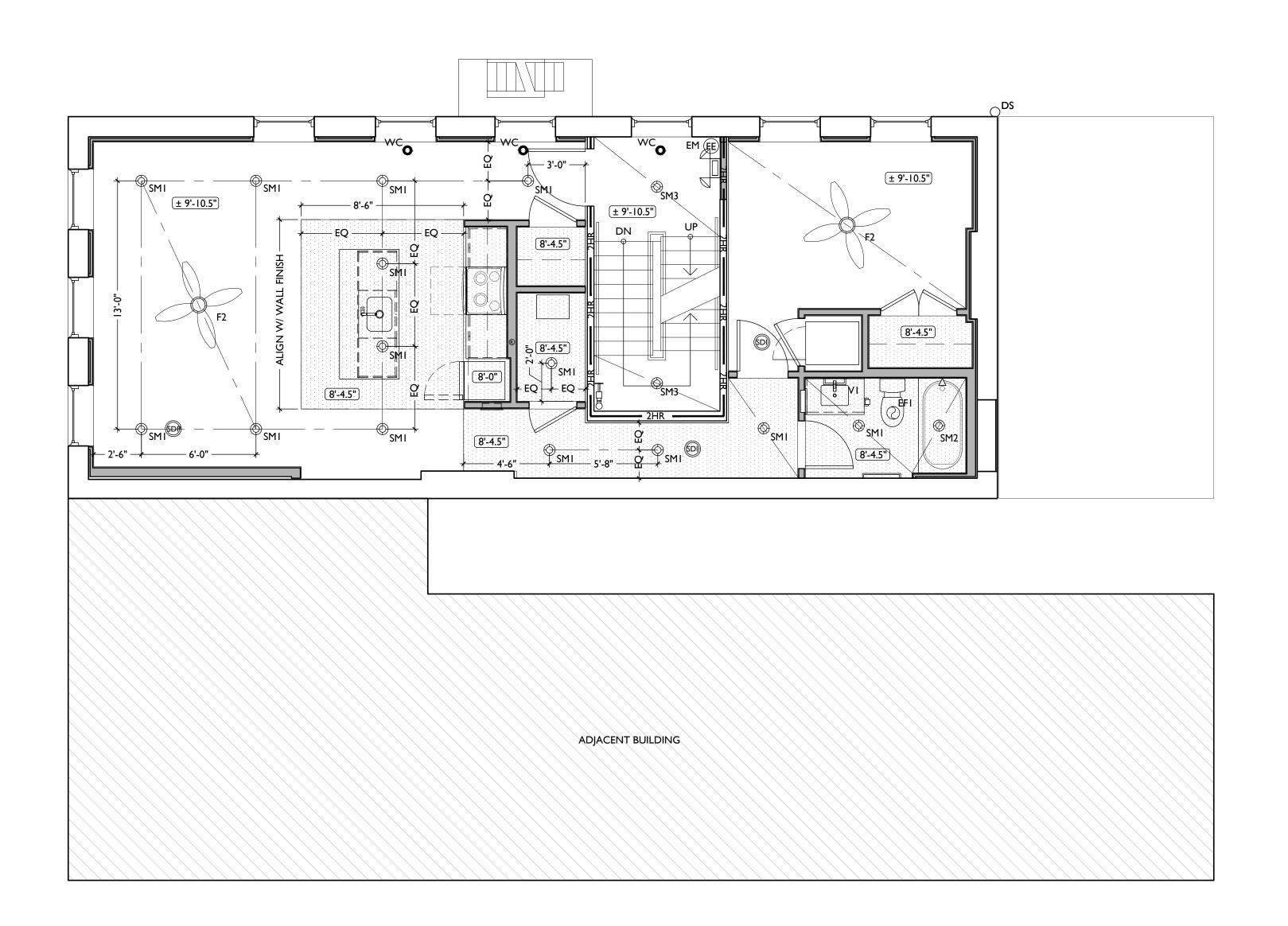
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Job No: 22042 04/28/2023

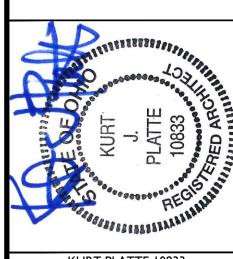
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	T				TED CEILING PLAN FIXTURE LEGEND:		1	T	REFLECTED CEILING PLAN GENERAL NOTES:	·'	REFLECTED CEILING PLAN GRAPHIC KEY:
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© SM2	SURFACE MOUNT LED CAN LIGHT	SM2 - DAMP RATED, TYPICAL IN SHOWERS.	FI	CEILING FAN WITH LIGHT	SMALL FAN, TYPICAL IN BEDROOMS AND LIVING ROOMS	RHI			IN ARCH DWGS. B. IF A FIXTURE APPEARS TO BE CENTERED IN A SPACE, THEN CENTER IT.		SOFFIT/LOWERED GYP BD CEILING
© SM3		SM3 - ALWAYS ON , TYPICAL IN COMMON STAIRHALLS				EM	EMERGENCY EGRESS LIGHT	EMERGENCY EGRESS LIGHT WALL PACK	C. LOWERED CEILINGS AND SOFFITS SHALL BE 8'-0" HIGH A.F.F., U.N.O. D. CLG HTS AT EXG FLOORS ARE TO BE VI.F. E. ALL CEILING FINISHES IN OCCUPIED SPACES TO BE SMOOTH PAINTED		AREA OF ATYPICAL FIRE-RATING. SEE PLANS &
SM13	SURFACE MOUNT ENTRY LIGHT	STAIR HALL ENTRY VESTIBULE, IST FLOOR ONLY				<u>EM</u>			DRYWALL U.N.O. SEE FINISH SCHEDULE FOR PAINT COLORS. F. BASEMENTS & UNOCCUPIED ATTICS TO HAVE EXPOSED JOISTS - NO FINISH	<u>//////</u>	SHEET A0.01
			F2	CEILING FAN WITH LIGHT	LARGE FAN, TYPICAL IN BEDROOM AND LIVING ROOM				CLGS U.N.O. G. ALL SOFFITS OVER KITCHEN CABINETS TO BE 8'-0" AFF AND 2'-1 1/2" WIDE MINIMUM.	WC O	WATER CURTAIN HEAD TO PROVIDE 100% COVERAGE OF WINDOW- COORD W/ F.P PLANS
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SM8									I. SEE EXTERIOR ELEVATIONS FOR MOUNTING HEIGHTS OF EXTERIOR LIGHTS. I. SEE ELECTRICAL DRAWINGS FOR FIXTURE SPECIFICATIONS.	(OS)	DENOTES OCCUPANCY SENSOR
□ ○ □ STI	SURFACE MOUNT UTILITY FIXTURE	TYPICAL IN ATTICS AND IN BASEMENTS	WMI Q	WALL MOUNT EXTERIOR LIGHT	EXTERIOR ARCHITECTURAL UP-DOWN LIGHT				K. ANY FIXTURES LOCATED IN AREAS WITH REMAINING HISTORIC TIN CEILINGS SHOULD BE CENTERED ON THE CEILING TILES, RATHER THAN PERFECTLY CENTERED IN THE SPACE. ADJUST THE GRID	(50)	COMBO SMOKE/CARBON MONOXIDE DETECTOR: IONIZATION (TYP BEDROOMS)
	WALL MOUNT	VI - TYPICAL OVER BATHROOM VANITIES IN TYPICAL							PLACEMENT/DIMENSIONS BY A FEW INCHES AS REQUIRED TO ACCOMMODATE THIS.	(SDP)	PHOTOELECTRIC
VI		RESIDENTIAL UNITS.	⊕ WM5	WALL MOUNT EXTERIOR LIGHT	EXTERIOR ARCHITECTURAL GOOSENECK LIGHT				7,6667.11.1657.11.2.11.116.		CENTER ON ARCHITECTURAL FEATURE
V2 <u>□</u>		V2 - TYPICAL ON SIDES OF BATHROOM VANITIES IN TYPICAL RESIDENTIAL UNITS.									STRUCTURAL MEMBER - SEE STRUCTURAL DWGS
TLI	SURFACE MOUNT	DIMMABLE, TYPICAL IN COMMERCIAL TURNKEY SPACES AND IN LOBBIES	Es	EMERGENCY EGRESS LIGHT	EMERGENCY EGRESS EXIT SIGN						
⊕ ⊃	SURFACE MOUNT PENDANT	TYPICAL OVER KITCHEN ISLANDS	ESL	EMERGENCY EGRESS LIGHT	EMERGENCY EGRESS EXIT SIGN W/ LIGHTS						
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LATTE chitecture + design



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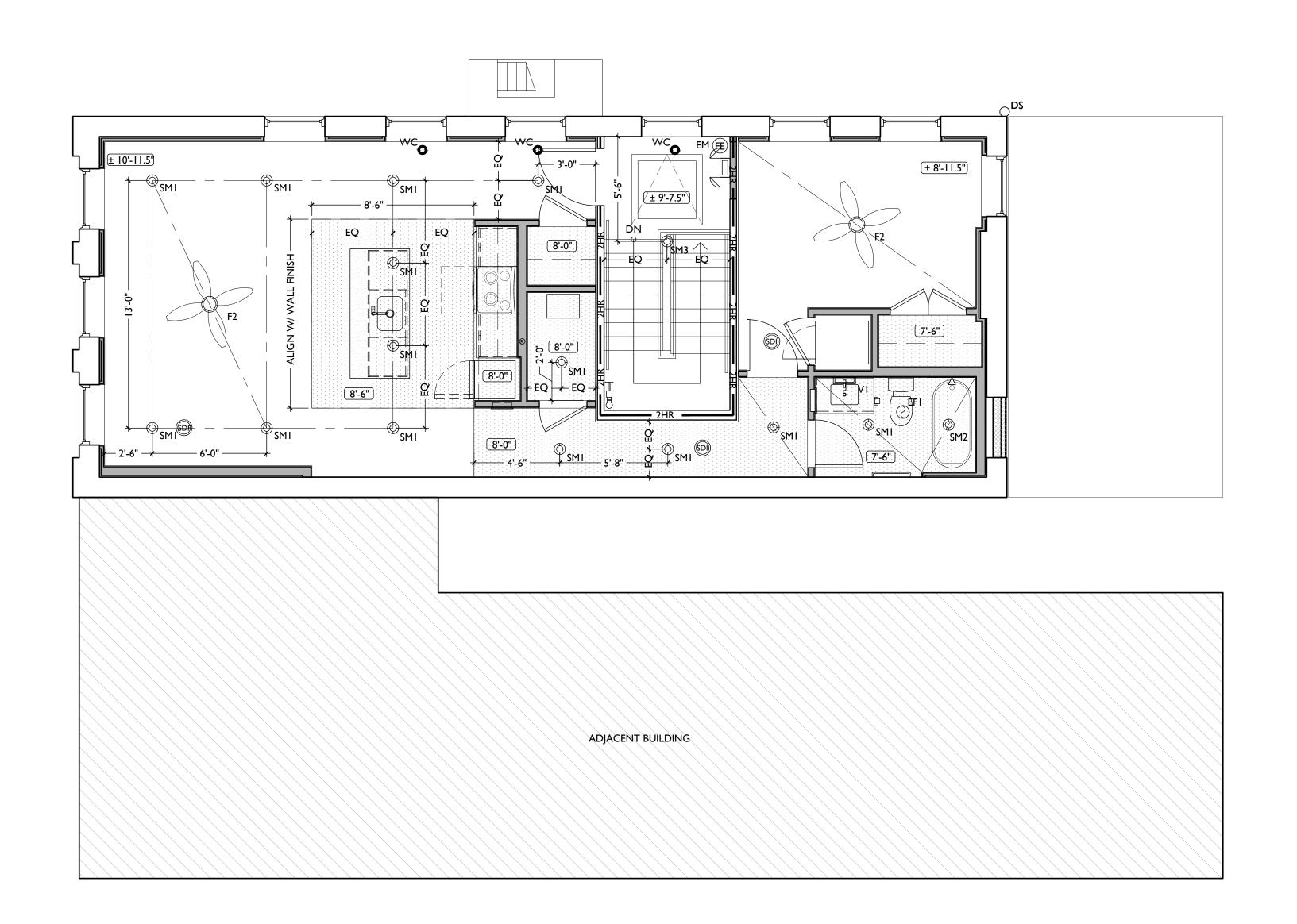
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A1.23

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3113 - AL	LWAYS ON , TYPICAL IN COMMON STAIRHALLS				EM	EMERGENCY EGRESS LIGHT	EMERGENCY EGRESS LIGHT WALL PACK	D. CLG HTS AT EXG FLOORS ARE TO BE VI.F. E. ALL CEILING FINISHES IN OCCUPIED SPACES TO BE SMOOTH PAINTED		AREA OF ATYPICAL FIRE-RATING. SEE PLANS & SHEET A0.01
SMI3 SURFACE MOUNT ENTRY LIGHT STAIR H.	ALL ENTRY VESTIBULE, IST FLOOR ONLY							DRYWALL U.N.O. SEE FINISH SCHEDULE FOR PAINT COLORS. F. BASEMENTS & UNOCCUPIED ATTICS TO HAVE EXPOSED JOISTS - NO FINISH CLGS U.N.O.) N/C •	WATER CURTAIN HEAD TO PROVIDE 100%
SURFACE MOUNT TYPICAL		F2	CEILING FAN LARGE FAN, 1	TYPICAL IN BEDROOM AND LIVING ROOM				G. ALL SOFFITS OVER KITCHEN CABINETS TO BE 8'-0" AFF AND 2'-1 1/2" WIDE MINIMUM.	WC•	COVERAGE OF WINDOW- COORD W/ F.P PLANS
SM8 SM8 TYPICAL	L IN COMMERCIAL TURNKEY SPACES							H. PROVIDE UNDER-CABINET LIGHTING BENEATH ALL UPPER KITCHEN CABINETS IN RESIDENTAL UNITS. SEE ELEC DWGS. I. SEE EXTERIOR ELEVATIONS FOR MOUNTING HEIGHTS OF EXTERIOR LIGHTS.	(NL) (OS)	DENOTES NIGHT LIGHT FIXTURE DENOTES OCCUPANCY SENSOR
STI SURFACE MOUNT TYPICAL	L IN ATTICS AND IN BASEMENTS	WMI Q	WALL MOUNT EXTERIOR AR	CHITECTURAL UP-DOWN LIGHT				J. SEE ELECTRICAL DRAWINGS FOR FIXTURE SPECIFICATIONS. K. ANY FIXTURES LOCATED IN AREAS WITH REMAINING HISTORIC TIN CEILINGS SHOULD BE CENTERED ON THE CEILING TILES, RATHER THAN PERFECTLY CENTERED IN THE SPACE. ADJUST THE GRID		COMBO SMOKE/CARBON MONOXIDE DETECTOR: IONIZATION (TYP BEDROOMS)
	PICAL OVER BATHROOM VANITIES IN TYPICAL ITIAL UNITS.	→ WM5	WALL MOUNT					PLACEMENT/DIMENSIONS BY A FEW INCHES AS REQUIRED TO ACCOMMODATE THIS.	© — — — — — — — — — — — — — — — — — — —	PHOTOELECTRIC CENTER ON ARCHITECTURAL FEATURE
V2 WALL MOUNT V2 - TYP	PICAL ON SIDES OF BATHROOM VANITIES IN TYPICAL		EXTERIOR LIGHT	CHITECTURAL GOOSENECK LIGHT						STRUCTURAL MEMBER - SEE STRUCTURAL DWGS
	SLE, TYPICAL IN COMMERCIAL TURNKEY SPACES AND IN	≥ ES	EMERGENCY EGRESS LIGHT EMERGENCY	egress exit sign						
SURFACE MOUNT PENDANT TYPICAL	L OVER KITCHEN ISLANDS	ESL	EMERGENCY EGRESS LIGHT EMERGENCY	EGRESS EXIT SIGN W/ LIGHTS						
		S EFI	BATHROOM VENT TYPICAL BAT	HROOM EXHAUST FAN/VENT						





LATTE chitecture + design

KURT HATTE TORSS 10833 TORSS 10833

KURT PLATTE 10833 EXP DATE 12.31.2023 Progress Dates 2023.04.28 - BID/PERMIT

Revisions

Design Team:
CO, JK, MR, MR, RK, RO, SO, TB
Drawn by:
MR, AM

WATION FOR 36 REPUBLIC

Job No: 22042 04/28/2023

A1.24

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3.1 SLAB TO REMAIN. SCOPE & VERIFY FLOOR DRAINS CONNECT TO SEWER. REPAIR AS REQUIRED. 3.2 VAPOR MITIGATION SYSTEM BELOW SLAB, AS REQUIRED BY OWNER'S CONSULTANT. SEE CONSULTANT DESIGN FOR SYSTEM DETAILS AND LOCATIONS OF VERTICAL VENTS. SEE

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4.1 TUCKPOINT BRICK AS SHOWN ON STRUCTURAL ELEVATIONS & PER SHPO NARRATIVE.

5. METALS

5.1 NEW CONTINUOUS STEEL PIPE HANDRAIL. SEE DETAILS. 5.2 NEW STEEL PIPE GUARDRAIL. SEE DETAILS. 5.3 REPAIR/RETAIN EXG FIRE ESCAPE AND REPAINT BLACK.

6. WOOD, PLASTICS, AND COMPOSITES

6.1 REPAIR DAMAGED WOOD STAIR TREADS/RISERS AS REQ'D.

6.3 REPAIR/RETAIN EXG CORNICE. REPAINT. 6.4 NEW WOOD BASEMENT STAIR IN PREVIOUS LOCATION. SEE DETAILS, SECTIONS, AND STRUCTURAL DWGS.

6.5 NEW WOOD STRUCTURAL MEMBERS. SEE STRUCTURAL DRAWINGS.

6.6 NEW WOOD FRAME BEARING WALL. SEE STRUCTURAL

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AREA OF NEW FRAMING/SHEATHING/DECKING. SEE STRUCTURAL DRAWINGS.

THERMAL AND MOISTURE PROTECTION REPAIR/RE-LINE EXG BOX GUTTER. 7.2 NEW ROUND ALUMINUM DOWNSPOUT PAINTED TO MATCH

ADJACENT WALL SURFACE. SEE EXTERIOR ELEVATIONS. TIE INTO 10.6 PROVIDE DRAIN PAN BENEATH WASHING MACHINE/ WATER EXISTING SEWER SYSTEM. 7.3 NEW PVC AT LOWER 6' OF DOWNSPOUT. PAINT TO MATCH

DOWNSPOUT. 4 NEW FULLY ADHERED WHITE TPO MEMBRANE ROOF W/ CRICKETS WHERE REQUIRED FOR POSITIVE DRAINAGE AND W/ TERMINATION BARS & METAL COUNTERFLASHING - SEE ROOF 10.9 RECESSED KEY LOCK BOX - BASIS OF DESIGN KNOXBOX 3200. DETAILS. INSULATION PER SCHEDULE. 7.5 NEW ROOF ACCESS HATCH. INSTALL PER MANUF'S INSTRUCTS.

BASIS OF DESIGN = BILCO E50TB, 48"X48". 7.6 PROVIDE NEW DARK BRONZE METAL CAP AT CHIMNEY.

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A. TYP. REACH-IN CLOSET

B. WALK-IN CLOSET. C. ABOVE W/D.

10.4 PROVIDE "NO SMOKING" SIGN AT EXTERIOR WALL. 10.5 FIRE EXTINGUISHER. COORDINATE FINAL LOCATION WITH LOCAL FIRE MARSHAL.

A. SURFACE MOUNTED. B. IN SINK CABINET IN RESIDENTIAL UNIT, TYPICAL.

PAINT TYPE FOR PANEL.

OF BUILDING.

26.2 NEW EXTERIOR LIGHTING. NO EXPOSED CONDUIT ON FACE

HEATER. SEE PLUMBING DWGS. 10.7 NEW RECESSED MEDICINE CABINET. SEE ENLARGED PLANS, INTERIOR ELEVATIONS AND FINISH SCHEDULE. 10.8 SHOWER NICHE. SEE ENLARGED PLANS, INTERIOR ELEVATIONS AND DETAIL I/A5.00.

INSTALL PER MANUF'S INSTRUCTS. COORDINATE WITH FIRE

21. FIRE SUPPRESSION

21.1 APPROX LOCATION OF FDC CONNECTION - COORDINATE W/ FIRE DEPT. 21.2 SPRINKLER RISER. SEE PLUMBING DWGS.

COORDINATE WITH ELECTRICAL AND FIRE PROTECTION

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22. PLUMBING 22.1 PROVIDE PIPE IN WALL FRAMING FOR VAPOR MITIGATION RISER, AS REQUIRED BY OWNER'S CONSULTANT. RISER TO EXTEND FROM BASEMENT TO ATTIC. SEE CONSULTANT DESIGN FOR LOCATIONS OF RISERS. SEE NOTE 3.2. COORDINATE WITH

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> — IHR — I-HR FIRE RATING. — 2HR — 2-HR FIRE RATING. NEW FLOOR & FRAMING TO MATCH ADJ - SEE STRUCT DWGS.

NEW GYP BD SOFFIT/ BULKHEAD/ DROPPED CLG - SEE RCPS. AREA OF ATYPICAL FIRE-RATED

ASSEMBLY ABOVE. 100A DOOR TAG. SEE SCHEDULE.

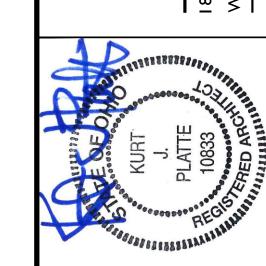
WINDOW DESIGNATION. <\$FA> STOREFRONT DESIGNATION.

EMERGENCY EGRESS EXIT. OPG CONTAINS TEMPERED GLAZING.

SINGLE HUNG OPG - UPPER SASH TO BE

FIXED WITHIN 3'-0" OF EXHAUST. X'-X" ELEVATION TAG.

TYP. ALL OPGS. THIS ELEVATION 5.2 23.1A FOURTH FLOOR 134'-0.5" THIRD FLOOR 4.1 SECOND FLOOR FIRST FLOOR (FRONT)



EXP DATE 12.31.2023 Progress Dates

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Revisions

Design Team:
CO, JK, MR, MR, RK, RO, SO, TB
Drawn by:
MR, AM

REPUBLIC

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FIRE DEPT. 21.2 SPRINKLER RISER. SEE PLUMBING DWGS.

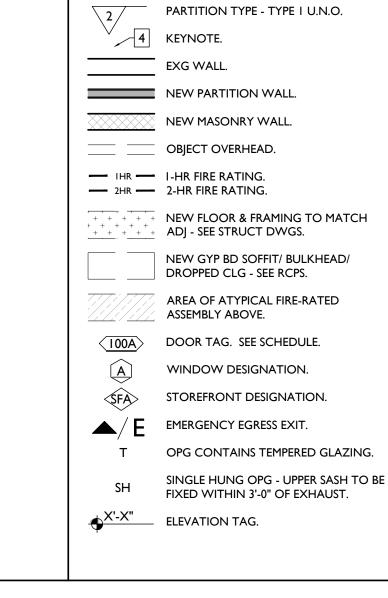
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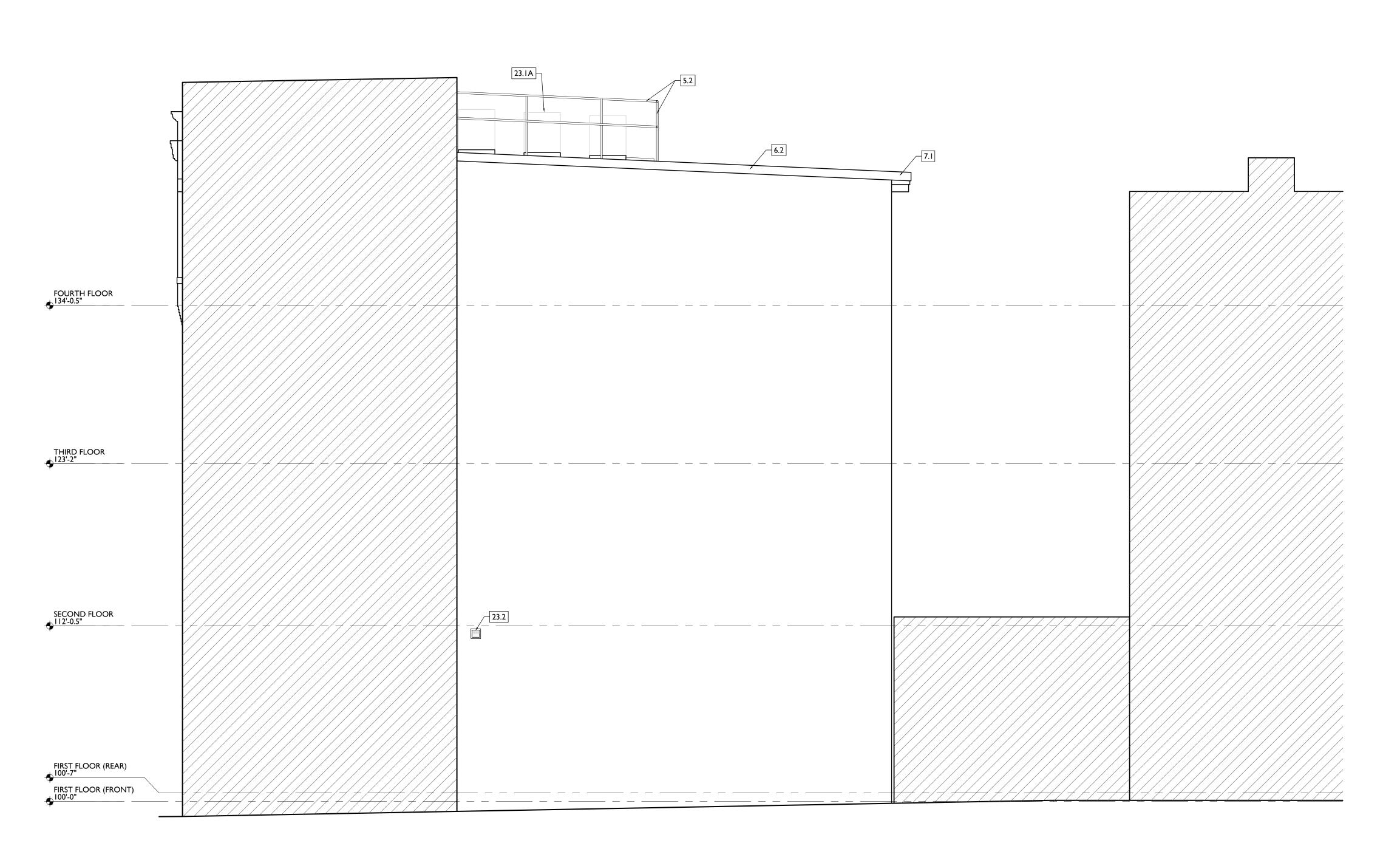
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KURT PLATTE 10833 EXP DATE 12.31.2023

Progress Dates 2023.04.28 - BID/PERMIT

Revisions

Design Team:
CO, JK, MR, MR, RK, RO, SO, TB
Drawn by:
MR, AM

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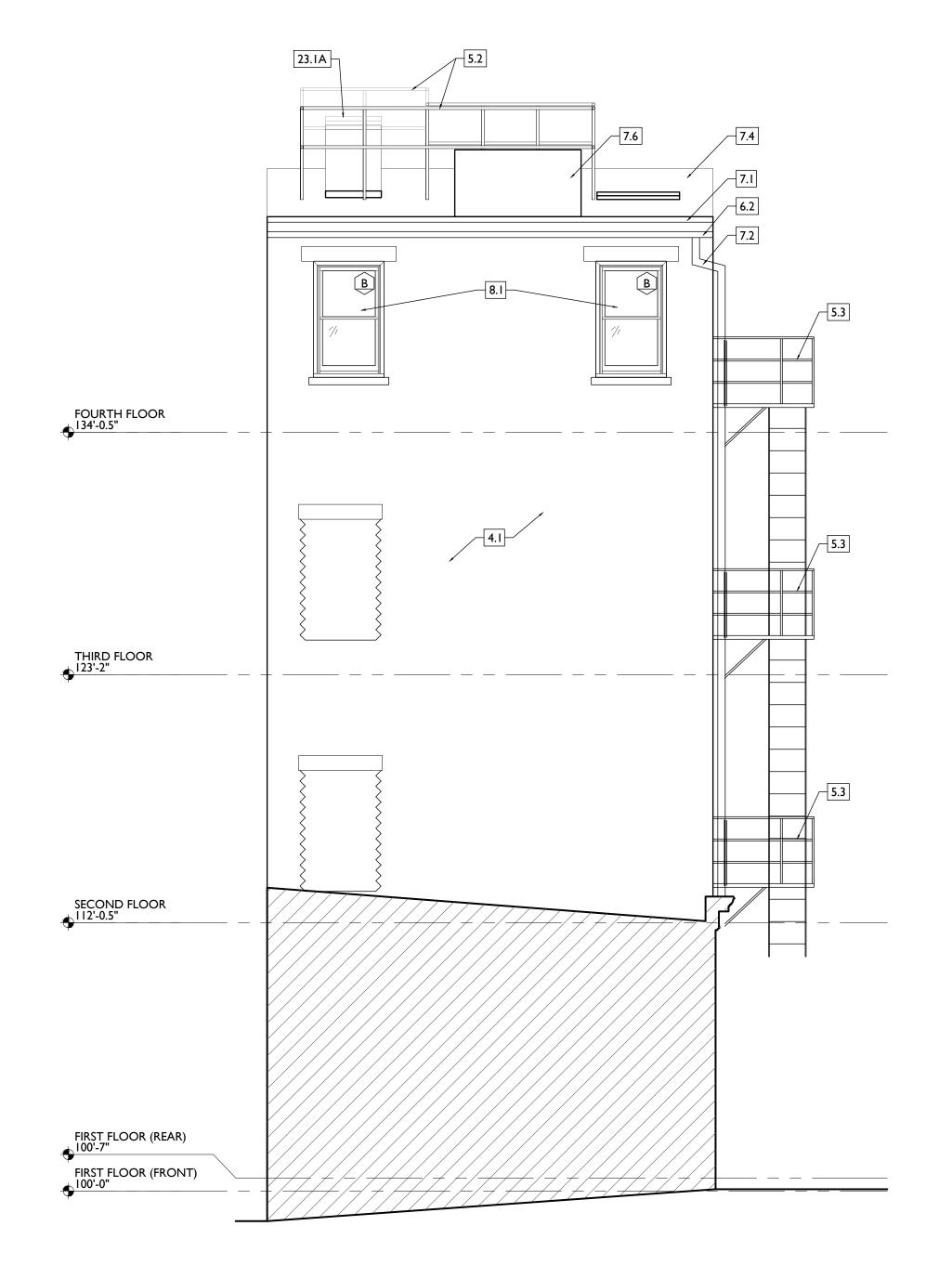
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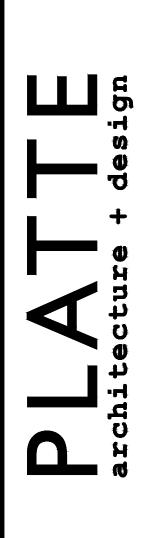
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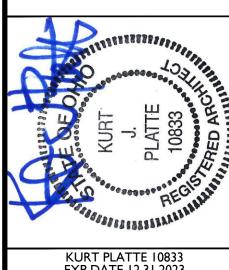
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NEW WORK GRAPHIC KEY:







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Revisions

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10. SPECIALTIES 6.2 NEW RAKE TRIM & GUTTERBOARD TO MATCH EXISTING - SEE 10.1 LOCKABLE & RECESSED MAILBOXES. BOXES TO MEET USPS-4C FIRE-RATING BEHIND MAILBOXES, WHEN REQ. 10.2 SURFACE MOUNTED ENTRY SECURITY SYSTEM CALL BOX BY

SECURITY CONTRACTOR. 10.3 CLOSETS W/ BLOCKING AT RODS & BRACKETS. PROVIDE 12" MELAMINE SHELF & CLOTHES ROD @ 66" A.F.F.; TYP U.N.O.:

B. WALK-IN CLOSET.

C. ABOVE W/D. 10.4 PROVIDE "NO SMOKING" SIGN AT EXTERIOR WALL. 10.5 FIRE EXTINGUISHER. COORDINATE FINAL LOCATION WITH

LOCAL FIRE MARSHAL. A. SURFACE MOUNTED. B. IN SINK CABINET IN RESIDENTIAL UNIT, TYPICAL. ADJACENT WALL SURFACE. SEE EXTERIOR ELEVATIONS. TIE INTO 10.6 PROVIDE DRAIN PAN BENEATH WASHING MACHINE/ WATER

HEATER. SEE PLUMBING DWGS. 10.7 NEW RECESSED MEDICINE CABINET. SEE ENLARGED PLANS, INTERIOR ELEVATIONS AND FINISH SCHEDULE. 10.8 SHOWER NICHE. SEE ENLARGED PLANS, INTERIOR ELEVATIONS AND DETAIL I/A5.00.

21. FIRE SUPPRESSION

21.1 APPROX LOCATION OF FDC CONNECTION - COORDINATE W/ FIRE DEPT. 21.2 SPRINKLER RISER. SEE PLUMBING DWGS.

21.3 EXTERIOR TAMPER/FLOW NOTIFICATION DEVICE -COORDINATE WITH ELECTRICAL AND FIRE PROTECTION

22. PLUMBING 22.1 PROVIDE PIPE IN WALL FRAMING FOR VAPOR MITIGATION RISER, AS REQUIRED BY OWNER'S CONSULTANT. RISER TO EXTEND FROM BASEMENT TO ATTIC. SEE CONSULTANT DESIGN FOR LOCATIONS OF RISERS. SEE NOTE 3.2. COORDINATE WITH 22.2 PLUMBING CHASE (OR WALL) - VERIFY LOCATIONS IN FIELD TO

ALIGN CONCEALMENT BETWEEN FLOORS. 22.3 HOSEBIB LOCATION. SEE PLUMBING DRAWINGS.

STANDARDS & ACCESSIBILITY REQUIREMENTS. PROVIDE CONT 23. HEATING, VENTILATING, AND AIR CONDITIONING 23.1 MECHANICAL UNIT(S) - WALKING PADS TO & AROUND

> ROOF EDGE. SEE HVAC & STRUCTURAL DWGS. A. ROOF <3:12, INSTALL C.U. ON SOUND ISOLATING PADS. 23.2 NEW EXHAUST/INTAKE LOUVER ON EXTERIOR OF BUILDING,

EQUIPMENT. GUARDRAIL REQUIRED IF EQUIPMENT < 10' FROM

NEW WORK PLANS & ELEVATIONS # KEYED NOTES: NEW WORK GRAPHIC KEY: MECHANICAL DRAWINGS. PARTITION TYPE - TYPE I U.N.O. 26. ELECTRICAL 4 KEYNOTE. 26.1 ELECTRIC PANEL RECESSED IN WALL W/ 30"W X 36"D CLEAR IN FRONT. PAINT TO MATCH ADJACENT WALL W APPROPRIATE PAINT TYPE FOR PANEL. 26.2 NEW EXTERIOR LIGHTING. NO EXPOSED CONDUIT ON FACE NEW PARTITION WALL. OF BUILDING. NEW MASONRY WALL. OBJECT OVERHEAD. — IHR — I-HR FIRE RATING. — 2HR — 2-HR FIRE RATING. NEW FLOOR & FRAMING TO MATCH ADJ - SEE STRUCT DWGS. NEW GYP BD SOFFIT/ BULKHEAD/



DROPPED CLG - SEE RCPS.

WINDOW DESIGNATION.

EMERGENCY EGRESS EXIT.

STOREFRONT DESIGNATION.

OPG CONTAINS TEMPERED GLAZING.

SINGLE HUNG OPG - UPPER SASH TO BE FIXED WITHIN 3'-0" OF EXHAUST.

ASSEMBLY ABOVE.

100A DOOR TAG. SEE SCHEDULE.

X'-X" ELEVATION TAG.

<\$FA>

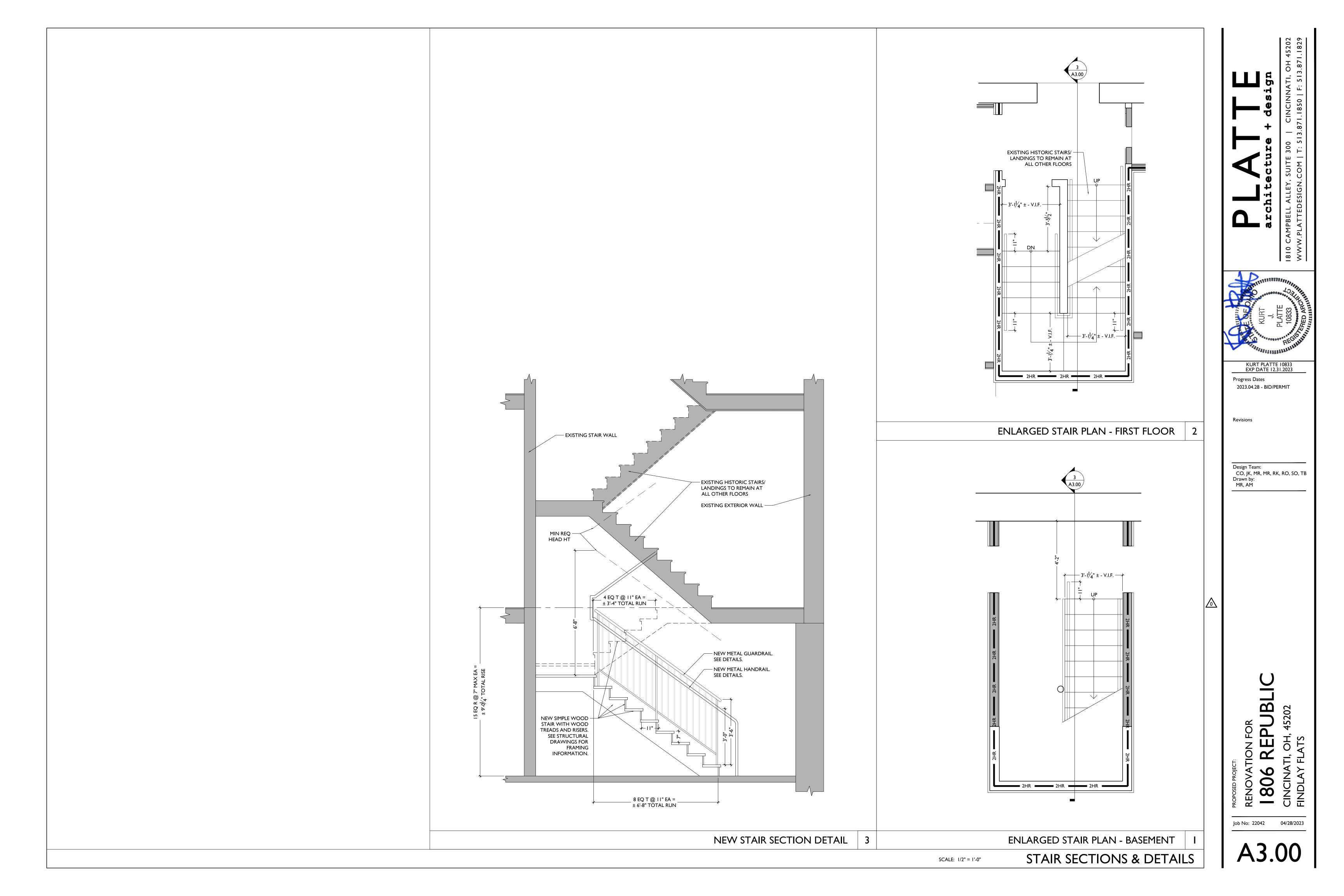
AREA OF ATYPICAL FIRE-RATED

KURT PLATTE 10833 EXP DATE 12.31.2023 Progress Dates 2023.04.28 - BID/PERMIT

Revisions

Design Team: CO, JK, MR, MR, RK, RO, SO, TB Drawn by: MR, AM

PUBLIC



MATERIAL / LOCATION	CODE	DESCRIPTION	NOTES	SOURCE
		FLOORING		1
EXISTING WOOD FLOORING - WHERE MAINTAINED	FL-I	MANU: EXISTING WOOD FLOORING FINISH: MINWAX STAIN COLOR: HEIRLOOM OAK MW441	STRIP, SAND AND STAIN PER MANUFACTURER'S SPECIFICATIONS	
NEW WOOD FLOORING - WHERE REQUIRED	FL-2	MANU: WOODWARD FLOORING FINISH: NATURAL WHITE OAK PLANK WIDTH: 3.25"	SEE FINISH PLANS FOR INSTALL DIRECTION.	
FLOOR TILE - BATHROOMS AND ADJACENT MEP/LAUNDRY ROOMS	FL-3	MANU: FLORIDA TILE COLLECTION: ALUSTRA COLOR: REGAL BLACK - MATTE SIZE: 12 X 24 - 3/8" THICKNESS GROUT: LATICRETE - 45 RAVEN INSTALL: RUNNING BOND WITH 1/3 OFFSET	PROVIDE LIQUID APPLIED WATERPROOF MEMBRANE BELOW TILE AND FIRESTOP SEALANT AT FLOOR PENETRATIONS	FLORIDA TILE EMILY FISCHER EMILY.FISCHER@FLORIDATILE.C OM 513.824.1791
VCT - MEP/LAUNDRY ROOM FLOORS	FL-4	MANU: ARMSTRONG COLLECTION: EXCELON VCT COLOR: 51861 SOFT WARM GRAY	USE IN LAUNDRY AND MEP ONLY IF ROOM IS NOT ADJACENT TO BATHROOM. UNDERLAYMENT AS REQ'D.	PAUL MCKAY PAMCKAY@ARMSTRONGFLOO RING.COM 513.515.0228
FLOOR TILE - KITCHENS WHERE REQUIRED	FL-5	MANU: FLORIDA TILE COLLECTION: AURA COLOR: LIGHT GRAY SIZE: 12 X 24 - 3/8" THICKNESS GROUT: LATICRETE; COLOR: 78 STERLING SILVER INSTALL: RUNNING BOND WITH 1/3 OFFSET	PROVIDE LIQUID APPLIED WATERPROOF MEMBRANE BELOW TILE AND FIRESTOP SEALANT AT FLOOR PENETRATIONS	FLORIDA TILE EMILY FISCHER EMILY.FISCHER@FLORIDATILE.C OM 513.824.1791
	1	WALL TILE	'	
TILE - SHOWER WALLS	WT-I	MANU: MOSA COLLECTION: COLORS SIZE: 6X6 COLOR: BEECH GLOSSY GROUT: MAPEI II; COLOR: SAHARA BEIGE INSTALL: HORIZONTAL RUNNING BOND	BLACK SCHLUTER EDGE	LOUISVILLE TILE ROBYN VIDIC RVIDIC@LOUISVILLE-TILE.COM 513-276-4840
	1	PAINT	,	
GENERAL PAINT - UNIT AND CORRIDOR WALLS AND CEILING	PT-I	MANU: PPG ARCHITECTURAL COATINGS COLOR: SILVER FEATHER - PPG 1002-1	WALL FINISH: SATIN CEILING FINISH: FLAT	
PAINT - UNIT TRIM	PT-2	MANU: PPG ARCHITECTURAL COATINGS COLOR: IN THE CLOUD - PPG 0999-I	BASE, TRIM, MILLWORK FINISH: SEMI-GLOSS	
PAINT - UNIT ENTRY DOORS CORRIDOR: HISTORIC MILLWORK & STAIR RISERS AS REQ'D PER BUILDING	PT-3	MANU: PPG ARCHITECTURAL COATINGS COLOR: THYME GREEN - PPG 1128-6	FINISH: SEMI-GLOSS	
PAINT - STAIR TREADS AND RAILING BALUSTER AS REQ'D PER BUILDING	PT-4	MANU: PPG ARCHITECTURAL COATINGS COLOR: LICORICE - PPG 1009-7	FINISH: SEMI-GLOSS	
		WALL BASE	I	
HISTORIC WOOD BASE - WHERE ABLE TO RETAIN	WB-I	IN-UNIT: PT-2 STAIR HALL: PT-3	KEEP ALL HISTORIC BASE - REPAIR/RETAIN WHEN PRESENT. PATCH TO MATCH ADJACENT. CLEAN, SAND, AND PAINT.	
TILE BASE - BATHROOMS	WB-2	MANU: FLORIDA TILE COLLECTION: ALUSTRA COLOR: REGAL BLACK - MATTE SIZE: 12 X 24 - 3/8" THICKNESS GROUT: LATICRETE - 45 RAVEN	TILE CUT DOWN ON SITE TO 3 X 24" BLACK SCHLUTER EDGE	LOUISVILLE TILE ROBYN VIDIC RVIDIC@LOUISVILLE-TILE.COM 513-276-4840
TYPICAL NEW PAINTED WOOD BASE - WHERE REQUIRED.	WB-3	CONTRACTOR PROVIDED 1X6 POPLAR W/ TOE MOLDING IN-UNIT: PT-2 STAIR HALL: PT-3		

				SOLID SURFACE		
QUARTZ - KITCH BACKSPLASH & COUNTERTOPS THROUGHOUT	EN	SS-I		CORIAN - QUARTZ : CALCATTA VILLA - 2CM	FULL BACKSPLASH, SEE ELEVATIONS	BRIAN FORTIN BRIAN.FORTIN@OVSCO.CON 513.582.2528
				CASEGOODS		
CABINETS - IN UN COMMERCIAL RR		CG-I	DOOR S MAPLE, I	STYLE: SUMMIT (SOLID WOOD) FULL OVERLAY	DOOR PULLS - MANU: AMEROCK MONUMENT 5-1/16" CENTER TO CENTER CABINET PULL MODEL: BP36571FB FINISH: BLACK	SMART CABINETRY SALES@SMARTCABINETRY.Co 574.831.5010
				GLASS		
GLASS SHOWER ENCLOSURE - UN BATHROOMS	IIT	GL-I	DOOR MODEL: GLASS: A	A FRAMELSS 3/8" GLASS SWING DOOR & PANEL SHOWER CELA-935 AQUA GLIDE GLASS CHROME		
				OTHER		
BLINDS			1	(WOOD BLINDS AT ALL RESIDENTIAL UNITS, WHITE VERIFY ALL LOCATIONS WITH OWNER		
UNIT ENTRY SIGN	NAGE		NUMBER	-	FINAL LOCATION TO BE DETERMINED BY OWNER	AMAZON https://tinyurl.com/mr37xwxn
BATHRO	OM EC	QUIPN	1ENT	SCHEDULE		
CODE	ITEM			MANUFACTURER & PRODUCT #	MOUNTING HEIGHT	REMARKS
A	GRAB B	ARS		MANU: BOBRICK LINE: B-5806×18 SIZE: (18") × 36 (36") & 42 (42")	PER ELEVATIONS & ACCESSIBILITY REQUIREMENTS	COMMERCIAL BATHROOM
В	DIAPER (CHANGE S	TATION	MANU: KOALA KARE MODEL: KB200-SS HORIZONTAL WALL MOUNTED FINISH: GREY 01	48" A.F.F. MAX MOUNTING HEIGHT TO T.O. STATION. WORKSURFACE WHEN OPEN TO BE 34" MAX - 28" MIN.	COMMERCIAL BATHROOM
CI C2	MEDICIN	NE CABINE	Т	RECESSED: MANU: KOHLER 16"x20" SINGLE DOOR REVERSIBLE HINGE FRAMELESS MIRRORED MEDICINE CABINET MODEL: K-CB-CLR1620FS SURFACE MOUNTED: RANGAIRE SURFACE MOUNT 16"X22" SINGLE DOOR MEDICINE CABINET WITH REVERSIBLE DOOR SWING MODEL: 4565MX	PER ELEVATIONS	UNIT BATHROOMS
D	PAPER T	FOWEL DIS	SPENSER	ASI TRADITIONAL PAPER TOWEL DISPENSER MULTI, C-FOLD, SURFACE MOUNTED BLACK MODEL: ASI 0210-41	PER ACCESSIBILITY REQUIREMENTS, 48" MAX TO HIGHEST OPERABLE PART	COMMERCIAL BATHROOM
EI	TOILET DISPEN	TISSUE SER		HARNEY HARDWARE COLLECTION: CLEARWATER TOILER PAPER HOLDER FINISH: MATTE BLACK PRODUCT #10220	PER ELEVATIONS & ACCESSIBILITY REQUIREMENTS	UNIT/COMMERCIAL BATHROOMS
E2	TOWEL	L HOOK		HARNEY HARWARE COLLECTION: CLEARWATER 24" TOWEL BAR FINISH: MATTE BLACK PRODUCT #10222	48" A.F.F.	UNIT BATHROOMS
E3	ROBE H	IOOK		"HARNEY HARDWARE COLLECTION: CLEARWATER ROBE HOOK FINISH: MATTE BLACK PRODUCT # 10218"	48" A.F.F.	UNIT/COMMERCIAL BATHROOMS
F	MIRROF	R		MANU: NUTYPE (HOME DEPOT) COLLECTION: MEDIUM RECTANGLE BLACK SHELVES AND DRAWERS MODERN MIRROR SIZE: 24 X 36	PER ELEVATIONS & ACCESSIBILITY REQUIREMENTS	UNIT/COMMERCIAL BATHROOM

FOURTH FLOOR 4

FLOOR GENERAL NOTES

WHERE EXG. HEARTH IS CONCRETE, PATCH / PROVIDE SOME SKIM COAT. PAINT CONCRETE.

3.1. PROVIDE TRANSITION STRIPS WHERE CHANGES IN MATERIAL OCCUR.
3.2. PROVIDE NEW WOOD TRANSITIONS WHERE NEW WOOD FLOOR MEETS HISTORIC

3.3. WHERE FLOOR TILE TRANSITIONS TO WOOD PROVIDE ALUMINUM TILE EDGE. B.O.D BENGARD-SHUR-TRIM. THICKNESS TO BE DETERMINED IN THE FIELD.

FLOOR FINISH LEGEND (SEE FINISH SCHEDULES A4.00-A4.02 FOR DETAILS)

FL-I EXG HISTORIC FINISH FLOORS TO REMAIN

RESIDENTIAL LAUNDRY/ MECH ROOMS
BUILDING STORAGE ROOMS

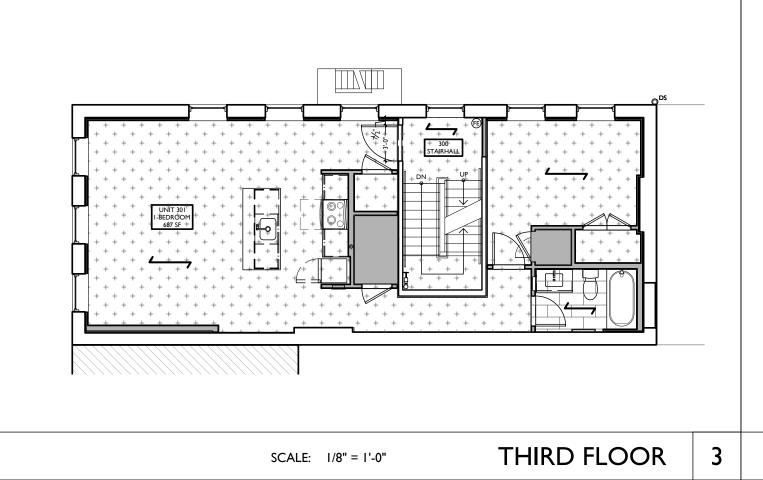
FL-2 NEW WOOD FLOORS

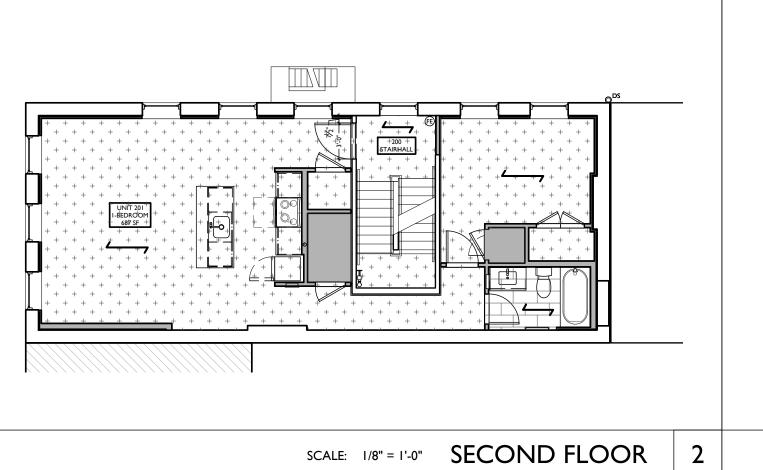
FL-3 RESTROOMS

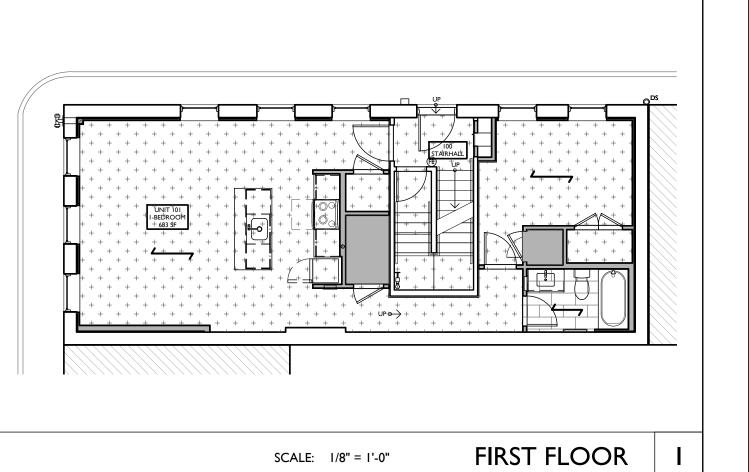
WHERE EXG. HEARTH TILE IS PRESENT. PROTECT AND MAINTAIN AS IS.

COLOR TBD.

. TRANSITION TYPES:







SCALE: 3/8" = 1'-0"

FINISH SCHEDULE

KURT PLATTE 10833 EXP DATE 12.31.2023 Progress Dates 2023.04.28 - BID/PERMIT

Revisions

Design Team: CO, JK, MR, MR, RK, RO, SO, TB Drawn by: MR, AM

RENOVATION FOR 1806 REPUBLIC

Job No: 22042 04/28/2023

FINISH FLOOR PLANS

PLATTE architecture + design

KURT PLATTE 10833 EXP DATE 12.31.2023

Progress Dates
2023.04.28 - BID/PERMIT

evisions

Design Team:
CO, JK, MR, MR, RK, RO, SO, TB
Drawn by:
MR, AM

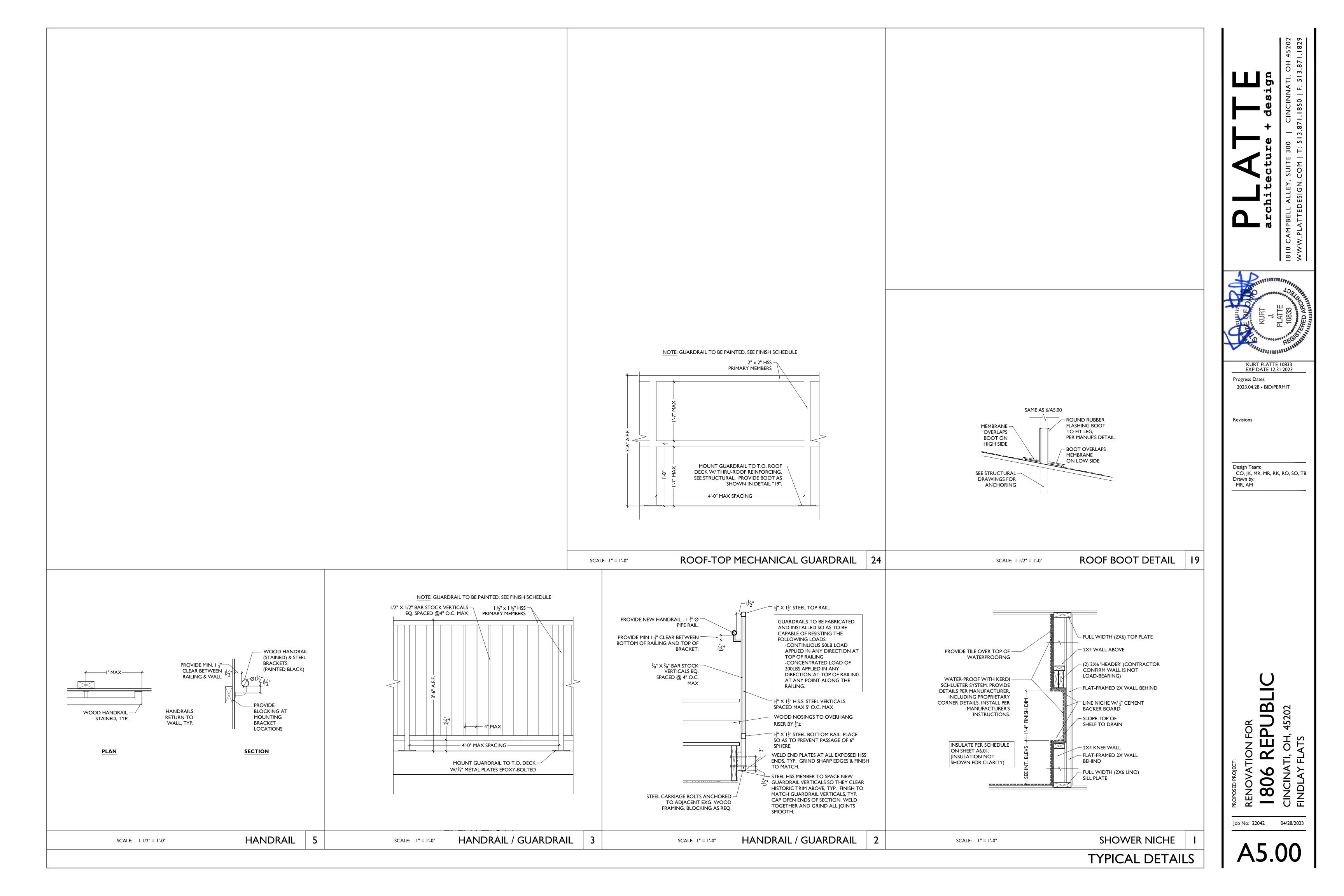
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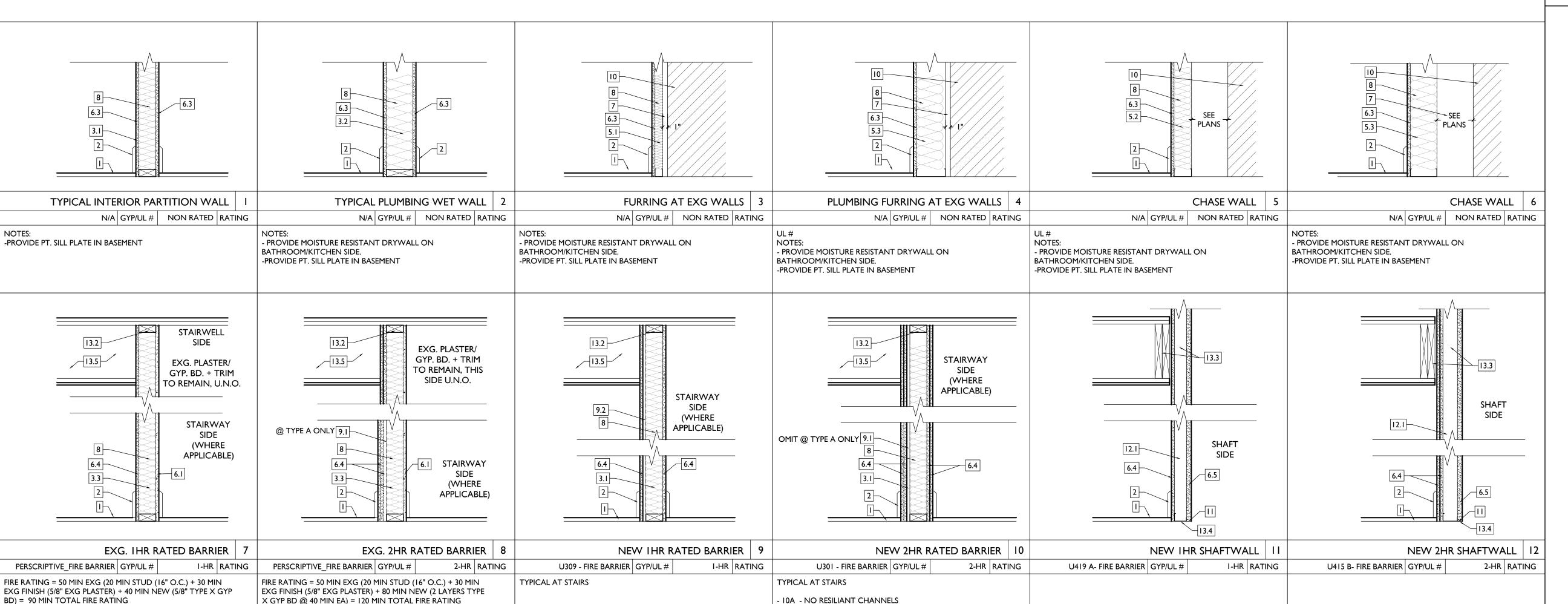
RENOVATION FOI

806 REPU

CINCINATI, OH, 45

A4.10





NOTE: SEE TABLES 721.1(2) AND 722.6 FOR PRESCRIPTIVE FIRE RATINGS. PER 721.1(2) EXCEPTION "E", PLASTER MAY BE SUBSTITUTED FOR GYPSUM WALLBOARD PROVIDED IT IS THE SAME SIZE/THICKNESS/CORE TYPE.

- 8A - ADD 1/2" RESILIANT CHANNELS I SIDE

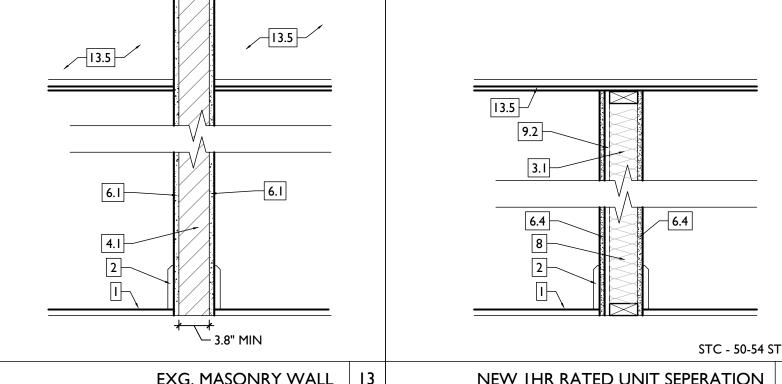
INSULATION SCHEDULE LOCATION **R-VALUE** NOTES SOUND ATTENUATION MECHANICAL CLOSET WALLS FILL STUD CAVITY SOUND ATTENUATION **BATHROOM WALLS** FILL STUD CAVITY | FIBERGLASS BATTS STAPLED | R-13 MIN. CONTINUOUS PIPE PLUMBING CHASE WALLS INSULATION AT ALL PLUMBING LINES SOUND ATTENUATION **BETWEEN OFFICE TENANT SPACES** FILL CAVITY SOUND ATTENUATION **BETWEEN DWELLING UNITS** FILL CAVITY **FURRING AT EXTERIOR WALLS** SPRAY-APPLIED CELLULOSE FILL CAVITY SOUND ATTENUATION FILL CAVITY & COORD W/ STAIR HALL ENCLOSURE WALLS FIRE-RATING & UL ASSEMBLY BLOWN-IN CELLULOSE OR R-19 MIN. STAIR HALL ENCLOSURE WALLS AT FILL CAVITY FIBERGLASS BATTS UNCONDITIONED ATTIC **CLG BETWEEN ATTIC FLOOR AND** BLOWN-IN CELLULOSE OR INSULATION BETWEEN OCCUPIED UNIT BELOW FIBERGLASS BATTS COORD W/ UL ASSEMBLY & CEILING BETWEEN BASEMENT/RESIDENTIAL CLOSED CELL SPRAY FOAM R-30 FIRE RATING REQ INSULATION PROVIDED NONE REQ ATTIC CEILING @ ATTIC FLOOR CLOSED CELL SPRAY FOAM CEILING OF OCCUPIED ATTIC FILL CAVITY & COORD W/ CEILING B/W BREEZEWAY/OCCUPIED SPACE | FIBERGLASS BATTS FIRE-RATING & UL ASSEMBLY 6" MIN SOUND COORD W/ UL ASSEMBLY & CEILING B/W TWO SEPARATE OCCUPIED SOUND ATTENUATION FIRE RATING 6" MIN SOUND SOUND ATTENUATION CEILING B/W FLOORS OF SAME RESIDENCE

NOTES: COORDINATE ALL W/ FIRE RATING & LLL ASSEMBLY

<u> </u>	NG & U.L. ASSEM	IDLI.		
2017 OHIO BUILDING CODE 721 PRESCRIPTIVE FIRE RESISTANCE - TAB	LE 720.1 (2) RATE	ED FIRE-RES	SISTANCE	FOR WALLS
MATERIAL:	ITEM NUMBER	MIN. EQU	JIV. THICK	NESS / RATING
MATERIAL:	ITEM NUMBER	MIN. EQU 3 HR	JIV. THICK 2 HR	NESS / RATING
MATERIAL: I. CLAY OR SHALE BRICK: SOLID BRICK	ITEM NUMBER			

3. WOOD WALL FRAMING 3.3. EXG. FRAMED WALL 4. MASONRY WALL 4.2. 8" CMU 4.3. 4" CMU

- IOA - NO RESILIANT CHANNELS



EXG. MASONRY WALL | 13 PERSCRIPTIVE - FIRE BARRIER GYP/UL# 2-HR RATING FIRE RATING = 3.8" MIN EXG. SOLID BRICK= 2HR MIN

STC - 50-54 STC

NEW 1HR RATED UNIT SEPERATION | 14 I-HR RATING U309 - FIRE PARTITIONS GYP/UL# TYPICAL UNIT SEPERATION/CORRIDOR WALLS

FURRING AT EXG WALLS | 15 N/A GYP/UL # NON RATED RATING

- PROVIDE MOISTURE RESISTANT DRYWALL ON

BATHROOM/KITCHEN SIDE.

-PROVIDE PT. SILL PLATE IN BASEMENT

WALL ASSEMBLIES/ PARTITION TYPES

KEYED NOTES:

- FINISHED FLOOR -SEE FINISH SCHEDULE SCHEDULED BASE - SEE FINISH SCHEDULE
- 3.1. 2X4 WALL FRAMING @ 16" O.C.
- 3.2. 2X6 WALL FRAMING @ 16" O.C.
- 4.1. EXISTING MASONRY WALL (SEAL
- WHERE EXPOSED)
- 4.4. BRICK VENEER
- 5. METAL WALL FRAMING (NEW OR EXG) 5.1. I 5/8" METAL STUD FURRING @ 16" O.C.
- 5.2. 3 5/8" METAL STUD @ 16" O.C. 5.3. 6" METAL STUD @ 16" O.C.
- 5.4. 7/8" HAT CHANNEL @ 16" O.C.
- 6. GYPSUM BOARD
- 6.1. EXG. GYP/PLASTER 6.2. 1/2"
- 6.3. 5/8" GYP. 6.4. 5/8" TYPE X
- 6.5. I" NOMINAL GYP. LINER 6.6. I/2" TYPE C
- 7. AIR GAP AS REQUIRED PER ASSEMBLY TYPE INSULATION PER SCHEDULE
- 9. RESILIENT CHANNELS
- 9.1. $\frac{1}{2}$ " METAL CHANNELS @ 24" O.C. RUN HORIZONTAL
- 9.2. §" METAL CHANNELS @ 16" O.C. RUN HORIZONTAL
- EXG. WALL J - TRACK 12. C- H STUD
- 12.1. 2 ½" C-H @ 24" O.C.
- 12.2. 4" C-H @ 24" O.C. 13. FLR/CLG FRAMING
- 13.1. RATED ASSEMBLY TO BE CONTINUOUS TO RATED PARTITION OR WALL, REFER TO FLR/CLG ASSEMBLIES AND RATING DIAGRAMS FOR DTLS
- 13.2. EXTEND RATED ASSEMBLY TO UNDERSIDE OF FLOOR SHEATHING
- 13.3. WALL STRUCTURE TO BE INDEPENDENT OF AND CONTINUE THROUGH FLR/CLG. ASSEMBLY. SEE STRUCTURAL FOR FRAMING OF FLR/CLG ASSEMBLY. SEE FLR/CLG ASSEMBLIES AND RATING DIAGRAMS FOR FLR/CLG ASSEMBLY
- 13.4. FRAMING TO BEAR ON FLOOR OF EQUAL RATING. SEE FLR/CLG.
- ASSEMBLIES AND RATING DIAGRAMS. 13.5. SEE FLR/CLG. ASSEMBLIES AND RATING DIAGRAMS FOR HORIZONTAL ASSEMBLY
- 14. HARDIE BOARD SIDING
- 15. $\frac{1}{2}$ " OSB SHEATHING WITH INTEGRAL AIR/MOISTURE BARRIER

ASSEMBLY & PARTITION GENERAL NOTES

GENERAL NOTES:

ALL MOISTURE RESISTANT DRYWALL TO BE PAPERLESS BOARD OR EQUIVALENT, AND TO BE USED ON ALL VERTICAL AND HORIZONTAL SURFACES THAT ARE WITHIN FOUR FEET OF ANY WATER SOURCES. IE. SHOWERS/TUBS, SINKS, WATER HEATERS, CLOTHES

WASHER, ETC. A.A. B.O.D. MOISTURE RESISTANT DENSGLASS. PROVIDE FIRE RATINGS AS INDICATED ON PLANS AND PARTITIONS/ASSEMBLIES

> UBL 806

KURT PLATTE 10833 EXP DATE 12.31.2023

Design Team: CO, JK, MR, MR, RK, RO, SO, TB

2023.04.28 - BID/PERMIT

Progress Dates

Drawn by:

TYPICAL FLOOR/CEILING/SHAFT ASSEMBLIES (LABELED ON PLANS AND SECTION DIAGRAM ON SHEET A0.01) — EXG OR NEW 3/4" NAIL-DOWN HARDWOOD FLOOR (PER - EXG OR NEW WOOD FLOOR (WHEN CERAMIC TILE IS FINAL FINISH, PROVIDE (2) LAYERS OF WOOD SUBFLOOR). UL DESIGN L505) -OR- 5/8" PLYWOOD UNDERLAYMENT (PER UL DESIGN L511). COORDINATE W/ FINISH SCHEDULE. FINISH VARIES - SEE - FINISH VARIES - SEE - FINISH VARIES - NOT OR NEW 3/4" SCHEDULE. PART OF FIRE ASSEMBLY. SCHEDULE. - EXG 3/4" T&G FLOOR OR NEW ----*-*---PLYWOOD SUBFLOOR. 3/4" PLYWOOD SUBFLOOR. _________ _________ EXG FLOOR JOISTS. EXG FLOOR JOISTS. EXG 3/4" T&G FLOOR EXG 3/4" T&G FLOOR - EXG 3/4" T&G FLOOR - INSULATION PER SCHEDULE. OR NEW 3/4" OR NEW 3/4" OR NEW 3/4" - INSULATION PER SCHEDULE. PLYWOOD SUBFLOOR. PLYWOOD SUBFLOOR. PLYWOOD SUBFLOOR. - I/2" RESILIENT EXG FLOOR JOISTS. - EXG FLOOR JOISTS. - EXG FLOOR JOISTS. (I) LAYER 5/8" TYPE-C GYP. BD. CHANNELS @ 24" O.C. — I/2" RESILIENT CHANNELS **INSULATION PER** INSULATION PER @ 24" O.C. SCHEDULE. SCHEDULE. I) ADDITIONAL LAYER I/2" TYPE-C GYP. BD. WHEN (I) LAYER 5/8" GYP BD, TYP (I) ADDITIONAL LAYER I/2" TYPE-C - NO FINISH CEILING. (2) LAYERS 5/8" INSULATION IS USED - SEE EXCEPT IN BASEMENTS, U.N.O. GYP. BD. WHEN INSULATION IS USED TYPE-X GYP. BD. NOTES BELOW RE: BASEMENT - SEE NOTES BELOW RE: BASEMENT & & EXTERIOR CONDITIONS EXTERIOR CONDITIONS FLR/CLG ASSEMBLY | A I-HR FLR/CLG MEMBRANE FLR/CLG ASSEMBLY | B I-HR FLR/CLG DWELLING SEPERATION | D 2 HR FLR/CLG CORRIDOR/USE GROUP SEP. NON RATED | RATING I-HR RATING N/A GYP/UL# NON RATED | RATING N/A GYP/UL# GA-FC-5406 GYP/UL# UL#L514 | GYP/UL# UL#L505 -OR- L511 GYP/UL# 2-HR RATING NOTES: PROVIDE MOISTURE RESISTANT DRYWALL IN BASEMENTS NOTES: PROVIDE MOISTURE RESISTANT DRYWALL IN BASEMENTS -PROTECTION PROVIDED FROM UNDERSIDE NOTES: PROVIDE MOISTURE RESISTANT DRYWALL IN BASEMENTS + NOTES: PROVIDE MOISTURE RESISTANT DRYWALL IN BASEMENTS + -PROVIDE MOISTURE RESISTANT DRYWALL IN BASEMENTS EXTERIOR SOFFIT BOARD EXTERIOR APPLICATIONS **EXTERIOR SOFFIT BOARD IN EXTERIOR APPLICATIONS** - EXG OR NEW 3/4" NAIL-DOWN HARDWOOD FLOOR (PER EXG OR NEW 3/4" NAIL-DOWN HARDWOOD FLOOR (PER - FINISH VARIES - NOT UL DESIGN L505) -OR- 5/8" PLYWOOD UNDERLAYMENT UL DESIGN L505) -OR- 5/8" PLYWOOD UNDERLAYMENT PART OF FIRE ASSEMBLY. (PER UL DESIGN L511). COORDINATE W/ FINISH SCHEDULE. (PER UL DESIGN L511). COORDINATE W/ FINISH SCHEDULE. - EXG 3/4" T&G FLOOR OR - EXG 3/4" T&G FLOOR OR NEW — EXG 3/4" T&G FLOOR OR NEW NEW 3/4" PLYWOOD 3/4" PLYWOOD SUBFLOOR. 3/4" PLYWOOD SUBFLOOR. - EXG FLOOR JOISTS (SHOWN - EXG FLOOR JOISTS (SHOWN TRANSVERSE TO SECTION CUT). EXG FLOOR JOISTS. TRANSVERSE TO SECTION CUT). - INSULATION PER SCHEDULE. - INSULATION PER SCHEDULE. - INSULATION PER - IX3 BRIDGING. (NOT SHOWN) SCHEDULE. - (I) LAYER 5/8" TYPE-C GYP. BD. IX3 BRIDGING. (NOT SHOWN) - RSIC-I CLIPS @ 48" O.C. - ATTACH (3) LAYERS 5/8" - RSIC-I CLIPS @ 48" O.C. - ATTACH TYPE-X GYP. BD. TO ALTERNATING JOISTS - 7/8" TO ALTERNATING JOISTS - 7/8" **RESILIENT CHANNELS FRICTION FIT RESILIENT CHANNELS FRICTION FIT** 7/8" RESILIENT INSIDE CLIPS - SPACING PER INSIDE CLIPS - SPACING PER CHANNELS @ 24" O.C. MANUF'S INSTRUCTIONS. MANUF'S INSTRUCTIONS. (I) LAYER 5/8" TYPE-C GYP. BD. (I) LAYER 5/8" TYPE-X - (I) ADDITIONAL LAYER I/2" TYPE-C GYP. BD. WHEN - (I) ADDITIONAL LAYER I/2" TYPE-C GYP. BD. WHEN GYP. BD. INSULATION IS USED - SEE NOTES BELOW INSULATION IS USED - SEE NOTES BELOW 2-HR FLR/CLG MEMBRANE | F NOT USED G 2-HR FLR/CLG MEMBRANE I-HR FLR/CLG MEMBRANE GA-FC-5725 GYP/UL# 2-HR RATING GYP/UL# RATING I-HR RATING UL #L514 | GYP/UL # UL #L505 -OR- L511 | GYP/UL # NOTES: - PROVIDE MOISTURE RESISTANT DRYWALL IN BASEMENTS + NOTES: - PROVIDE MOISTURE RESISTANT DRYWALL IN BASEMENTS + -PROVIDES PROTECTION FROM UNDERSIDE EXTERIOR SOFFIT BOARD IN EXTERIOR APPLICATIONS EXTERIOR SOFFIT BOARD IN EXTERIOR APPLICATIONS - IF INDICATED IN PLAN KEYNOTES, REINSTALL HISTORIC TIN - IF INDICATED IN PLAN KEYNOTES, REINSTALL HISTORIC TIN CEILING AT UNDERSIDE OF ASSEMBLY CEILING AT UNDERSIDE OF ASSEMBLY TYPICAL ROOF ASSEMBLIES ICE GUARD (&/OR ICE SHEILD) (LABELED ON PLANS AND SECTION DIAGRAM ON SHEET A0.01) WHERE INDICATED ON ROOF PLANS PREFINISHED MEMBRANE ROOF. -UNDERLAYMENT. - ICE BARRIER PREFINISHED -STANDING SEAM _____ 1/4" DENSDECK - ICE BARRIER MEMBRANE ROOF. -STANDING SEAM METAL ROOF UNDERLAYMENT. METAL ROOF - I/4" DENSDECK - SHEATHING PER MEMBRANE ROOF. -SHEATHING PER UNDERLAYMENT STRUCTURAL DWGS CONTINUOUS 3" _____ STRUCTURAL DWGS SHEATHING PER (TYP. U.N.O. -POLYISO INSULATION, STRUCTURAL DWGS (TYP. U.N.O. -REPAIR/RETAIN EXG). R-20 MIN. (TYP. U.N.O. -REPAIR/RETAIN EXG). SHEATHING PER - CLOSED CELL SPRAY REPAIR/RETAIN EXG). STRUCTURAL DWGS FOAM INSULATION, SHEATHING PER **CLOSED CELL SPRAY** (TYP. U.N.O. -STRUCTURAL DWGS REPAIR/RETAIN EXG). FOAM INSULATION, (TYP. U.N.O. -R-38 MIN. REPAIR/RETAIN EXG). - FRAMING PER STRUCTURAL DWGS STRUCTURAL DWGS (TYP. U.N.O. - REPAIR/RETAIN EXG).

(TYP. U.N.O. -

ICE GUARD WHERE

SHEATHING PER STRUCT

(TYP UNO- REPAIR/RETAIN

INDICATED ON

INSULATION PER

FRAMING PER STRUCT

REPAIR/RETAIN EXISTING)

RATING

ROOF PLANS

EXISTING)

SCHEDULE

(TYP UNO-

NOTE: SPRAY FOAM MUST BE PROTECTED

INSULATED SHINGLE ROOF | S2

- SEE RCPS (TYP CLG = $\frac{5}{8}$ ")

PROVIDE ROOF CLASS RATING AS INDICATED

ON CODE ANALYSIS.

N/A GYP/UL#

- USED WHERE TOP FLOOR IS OCCUPIED. - COORDINATE W/ INSULATION SCHEDULE

BY 1/2" THERMAL BARRIER, MIN.

UNINSULATED MEMBRANE ROOF | M2

PROVIDE ROOF CLASS RATING AS INDICATED

N/A GYP/UL#

- USED WHERE ATTIC/INTERSTITIAL SPACE IS UNOCCUPIED

- INSULATION TO BE PROVIDE AT CLG OF OCCUPIED SPACE BELOW

ON CODE ANALYSIS.

FIBERGLASS

SHINGLE

REPAIR/RETAIN EXG).

- NO FINISH CEILING.

RATING

ON CODE ANALYSIS.

N/A GYP/UL#

- USED WHERE TOP FLOOR IS OCCUPIED

- SEE RCPS. IF EXG, PATCH AND REPAIR

FRAMING MODIFICATION.

PROVIDE ROOF CLASS RATING AS INDICATED

N/A GYP/UL#

- USED WHERE TOP FLOOR IS OCCUPIED

PROVIDE ROOF CLASS RATING AS INDICATED

N/A GYP/UL#

NEW 25 YR -

SHINGLE

FIBERGLASS

ON CODE ANALYSIS.

ON CODE ANALYSIS.

BY 1/2" THERMAL BARRIER, MIN.

DAMAGED AREAS. REPLACE AT AREAS OF

NOTE: SPRAY FOAM MUST BE PROTECTED

INSULATED MEMBRANE ROOF | MI

RATING

ICE GUARD WHERE

SHEATHING PER

STRUCT DWGS

REPAIR/RETAIN

STRUCT DWGS (TYP UNO-

REPAIR/RETAIN

NO FINISH CEILING.

RATING

(TYP UNO-

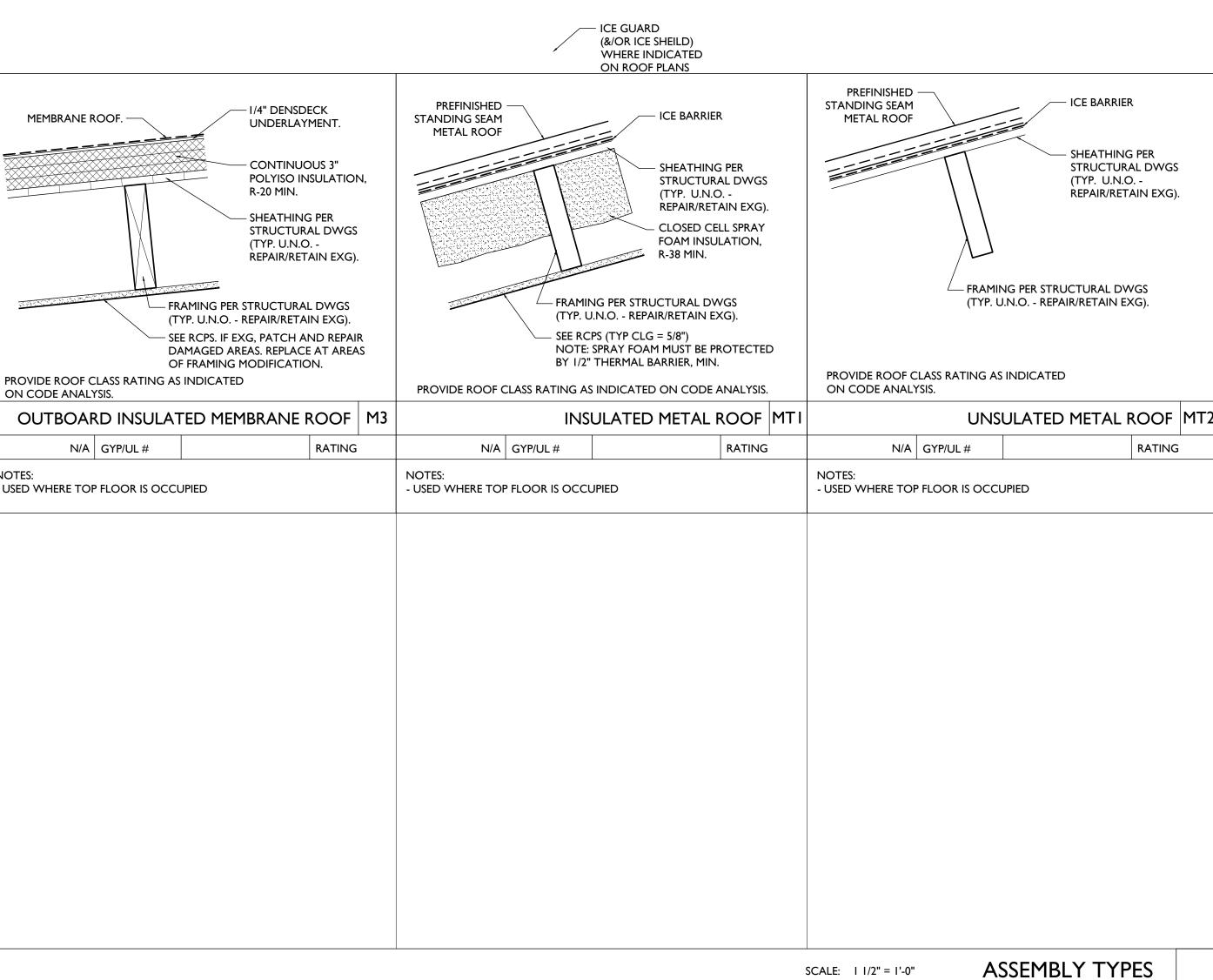
EXISTING) FRAMING PER

EXISTING)

UNINSULATED SHINGLE ROOF | SI

PLANS

INDICATED ON ROOF



SCALE: | 1/2" = 1'-0"

EXP DATE 12.31.2023 Progress Dates 2023.04.28 - BID/PERMIT

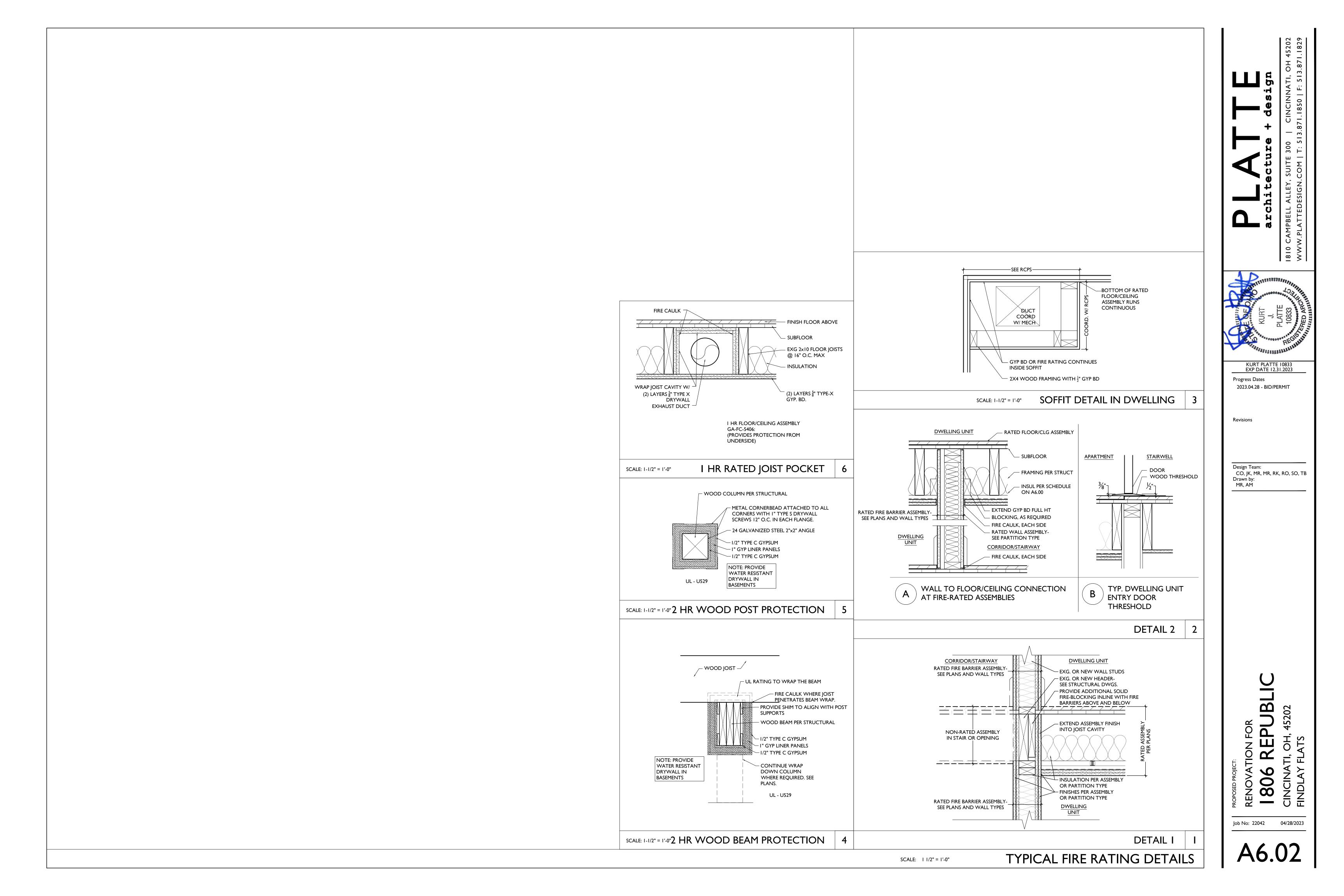
MR, AM

CO, JK, MR, MR, RK, RO, SO, TB Drawn by:

UB

Job No: 22042 04/28/2023

8



HAR	DWARE SCHI	EDULE	CALL OUT LEGENDS	DC	OR SC	HED	ULE								
HDWR	М	DESCRIPTION	DOOR FINISHES (ALSO SEE A4.00 AND A8.00-8.01)	DOOR NO.	LOCATION		DOOR	.			FRAME	•	HDW	REI	MARKS
	OORS TO REMAIN	T	FF DOOR TO BE FACTORY FINISHED AS PART OF NEW STOREFRONT SYSTEM. SEE STOREFRONT TYPES ON A6.12.	NO.					1				エ		
H01	EXISTING TO REMAIN 1ERCIAL DOORS	EXISTING HARDWARE SET TO REMAIN	PT AT EXTERIOR DOORS: SEE EXTERIOR PAINT SCHEDULE ON A8.00-A8.01. AT INTERIOR DOORS: SEE FINISH SCHEDULE ON A4.00.			王 -	누	ш	Ţ	ш	Σ	Ţ	出	טַ	ES
11217 COTII	ILICIAL BOOKS	ENTRY LOCKSET OUTSIDE KEYLOCK (LOCKED FROM OUTSIDE)	WL WOOD LOOK ST STAINED			WID	HEIGH.	TYPE	FINISH	TYPE	TRANSM	FINISH	TYP	RATING	NOT
	EXTERIOR COMMERCIAL DOOR	LEVER HANDLES INSIDE KEYLOCK W/ SINGLE ACTION LEVER RELEASE: MECHANISM RELEASES DEADBOLT WHEN INTERIOR HANDLE	FRAME TYPES (ALSO SEE A6.11)	BASEME	NT	1									
H02	(TYPICAL)	IS TURNED. MEETS EMERGENCY EGRESS REQUIREMENT. • 1-1/2 PAIR HINGES • (1) CLOSER • WALL/FLOOR STOP	FI HISTORIC FRAME/TRIM TO REMAIN - REPAIR/REPLICATE MISSING PIECES AS REQ F2 NEW METAL FRAME - SEE DTLS I-5/A6.I I AND TYPICAL TRIM DTLS A6.I I F3 NEW METAL FRAME - SEE DTLS I-5/A6.I I - TRIM TO MATCH EXG ADJ. HISTORIC TRIM	001-1	BASEMENT	2'-6"	6'-8"	DM4	PT	F2		PT	H06	90 MIN	
		• WEATHER SEALS ENTRY LOCKSET	F4 NEW WOOD FRAME - SEE DTLS 7-8/A6.11 AND TYPICAL DOOR TRIM DTLS A6.11 F5 NEW WOOD FRAME - SEE DTLS 7-8/A6.11 - TRIM TO MATCH EXG ADJ. HISTORIC TRIM SF PART OF STOREFRONT SYSTEM - SEE A6.12	100-1	STAIR ENTRY BASEMENT	V.I.F.	- EXG OPG - V.I.F.	DM3	PT	F2		PT	HI0		IE
		OUTSIDE KEYLOCK (LOCKED FROM OUTSIDE) LEVER HANDLES	NOTE: FRAMES TO BE PAINTED, UNO. SEE FINISH SCHEDULE AND EXTERIOR PAINT SCHEDULE	100-2	ACCESS	2'-6"	6'-8"	DWI	PT	F2		PT	H06		
H03	INTERIOR COMMERCIAL DOOR	• INSIDE KEYLOCK W/ SINGLE ACTION LEVER RELEASE: MECHANISM RELEASES DEADBOLT WHEN INTERIOR HANDLE	FOR MORE INFORMATION.	101-1	UNIT ENTRY	3'-0"	6'-8"	DM4	PT	F4		PT	HR01	90 MIN	
П03	INTERIOR COMMERCIAL DOOR	IS TURNED. MEETS EMERGENCY EGRESS REQUIREMENT. • 1-1/2 PAIR HINGES		101-2	COAT CLOSET	2'-6"	6'-8"	DWI	PT	F4		PT	HR04		
		• (I) CLOSER • SMOKE SEAL	TRANSOM TYPES (ALSO SEE A6.11)	101-3	CLOSET	2'-6"	6'-8"	DWI	PT	F4		PT	HR04		
		WALL/FLOOR STOP STORAGE LOCKSET	TRI NEW HOLLOW METAL FRAMED TRANSOM	101-4	BATHROOM	2'-6"	6'-8"	DWI	PT	F4		PT	HR02		5
	DOOR TO BASEMENT/MECHANICAL	RATED HARDWARE WHERE REQUIRED OUTSIDE KEY LOCK, INSIDE ALWAYS UNLOCKED	TR2 HISTORIC TRANSOM TRIM & GLAZING TO REMAIN. REPAIR/REPLICATE MISSING PIECES AS REQ	101-5	BEDROOM	2'-8"	6'-8"	DWI	PT	F4		PT	HR02		
H06	CLOSET	ACCESSIBLE BY LANDLORD ONLY (3) HINGES	TR3 NEW WOOD TRANSOM TRIM TO MATCH EXG ADJACENT HISTORIC TRIM OF DOOR - WITH NEW TEMPERED GLAZING	101-6	LAUNDRY	2'-6" 4'-0"	6'-8"	DWI	PT	F4		PT PT	HR04 HR04A		4
		• WALL/FLOOR STOP	TR4 HISTORIC TRANSOM TRIM TO REMAIN. REPAIR/REPLICATE MISSING PIECES AS REQ'D.	SECONI	CLOSET	4-0"	6'-8"	DWI	PT	F4		PI	HK04A		
NEW COMP	10N RESIDENTIAL DOORS		INSTALL NEW CLEAR GLAZING. SF NEW TRANSOM TO BE PART OF STOREFRONT SYSTEM. SEE STOREFRONT TYPES.	201-1	UNIT ENTRY	3'-0"	6'-8"	DM4	PT	F4		PT	HR01	90 MIN	
		ENTRY LOCKSET W/ PANIC HARDWARE • RATED HARDWARE		201-2	COAT CLOSET	2'-6"	6'-8"	DWI	PT	F4		PT	HR04		
		PANIC HARDWARE TO BE EXIT ONLY ELECTRONIC ACCESS CONTROL (INTERCOM OR KEY FOB)		201-3	MECHANICAL	2'-6"	6'-8"	DWI	PT	F4		PT	HR03		
	EGRESS DOOR FROM STAIR/CORRIDOR TO EXTERIOR	• ELECTRIC STRIKE • (3) HINGES		201-4	BATHROOM	2'-6"	6'-8"	DWI	PT	F4		PT	HR02		5
		(i) CLOSER WALL/FLOOR STOP		201-5	BEDROOM	2'-8"	6'-8"	DWI	PT	F4		PT	HR02		
		• WEATHER SEALS		201-6	LAUNDRY	2'-6"	6'-8"	DWI	PT	F4		PT	HR04		4
		• OUTSIDE ALWAYS LOCKED, INSIDE ALWAYS UNLOCKED		201-7	CLOSET	4'-0"	6'-8"	DWI	PT	F4		PT	HR04A		
		LEVER HANDLES ELECTRONIC ACCESS CONTROL (INTERCOM OR KEY FOB)	SCHEDULE NOTES	THIRD F	L OOR										
HI0	DOOR FROM STAIR/CORRIDOR TO EXTERIOR	• ELECTRIC STRIKE • I LOCKSET		301-1	UNIT ENTRY	3'-0"	6'-8"	DM4	PT	F4		PT	HR01	90 MIN	
		• 1-1/2 PAIR HINGES • (I) CLOSER	I. EXISTING HISTORIC OPENING:	301-2	COAT CLOSET	2'-6"	6'-8"	DWI	PT	F4		PT	HR04		
		WALL/FLOOR STOP WEATHER SEALS	I.A. EXISTING HISTORIC DOOR (& TRANSOM, IF APPLICABLE) TO REMAIN IN SITU. REPAIR AS REQ. CONTRACTOR TO PROVIDE ALLOWANCE FOR DOOR REPAIR FOR ALL EXG.	301-3	MECHANICAL	2'-6"	6'-8"	DWI	PT	F4		PT	HR03		
		PASSAGE LOCKSET • RATED HARDWARE	DOORS TO REMAIN. I.B. EXISTING HISTORIC DOOR IS TO BE FIXED IN PLACE. SEE PLANS.	301-4	BATHROOM	2'-6"	6'-8"	DWI	PT	F4		PT	HR02		5
HI0A	PASSAGE DOOR BETWEEN CORRIDOR	• NO LOCKSET • (3) HINGES	I.C. OPENING TO HAVE RELOCATED HISTORIC DOOR, SEE EXISTING PLANS FOR	301-5	BEDROOM	2'-8"	6'-8"	DWI	PT	F4		PT	HR02		
	+ EGRESS STAIR	• (I) CLOSER • SMOKE SEAL	PREVIOUS LOCATION AND NEW WORK PLANS FOR NEW LOCATION. I.D. OPENING TO HAVE RELOCATED HISTORIC FRAME/TRIM. SEE EXISTING PLANS FOR	301-6	LAUNDRY	2'-6"	6'-8"	DWI	PT	F4		PT	HR04		4
		WALL/FLOOR STOP STORAGE LOCKSET	PREVIOUS LOCATION AND NEW WORK PLANS FOR NEW LOCATION.	301-7	CLOSET	4'-0"	6'-8"	DWI	PT	F4		PT	HR04A		
		RATED HARDWARE OUTSIDE KEY LOCK, INSIDE ALWAYS UNLOCKED	I.E. NEW OPERABLE DOOR IN HISTORIC OPENING. I.F. HISTORIC POCKET DOORS TO BE RESTORED TO ORIGINAL FUNCTION AND	FOURTH		1	T		1	ı			1	ı ı	
HI0AB	DOOR FROM STAIR/CORRIDOR TO ATTIC	• (3) HINGES • (1) CLOSER	OPERATION. 2. EXISTING TRANSOM TO BE INFILLED BEHIND WITH GYP. BD. TO MAINTAIN FIRE RATING.	401-1	UNIT ENTRY	3'-0"	6'-8"	DM4	PT	F4		PT	HR01	90 MIN	
		• ŠMOKE SEAL • WALL/FLOOR STOP	SEE DETAILS ON A6.03.	401-2	COAT CLOSET	2'-6"	6'-8"	DWI	PT	F4		PT	HR04		
		PASSAGE LOCKSET	3. PROVIDE HOLD OPEN FOR THIS DOOR - SEE HARDWARE SCHEDULE.	401-3	MECHANICAL	2'-6"	6'-8"	DWI	PT	F4		PT	HR03		
		OUTSIDE ALWAYS LOCKED, INSIDE ALWAYS UNLOCKED LEVER HANDLES	4. PROVIDE HINGES THAT ALLOW FOR EASY DOOR REMOVAL DURING LAUNDRY UNIT INSTALLATION & MAINTENANCE.	401-4	BATHROOM	2'-6"	6'-8"	DWI	PT	F4		PT	HR02		5
		ELECTRONIC ACCESS CONTROL (INTERCOM OR KEY FOB) ELECTRIC STRIKE	5. DOOR TO BE UNDERCUT. SEE MECHANICAL DRAWINGS.	401-5	BEDROOM	2'-8"	6'-8"	DWI	PT	F4		PT	HR02		
HIOB	INTERIOR DOOR FROM STAIR CORRIDOR TO PUBLIC CORRIDOR	• I LOCKSET • (3) HINGES	6. DOOR(S) TO BE FIXED IN PLACE AND INOPERABLE.	401-6	LAUNDRY	2'-6"	6'-8"	DWI	PT	F4		PT	HR04		4
		• (I) CLOSER • WALL/FLOOR STOP	7. PROVIDE VIEW HOLE AT 48" A.F.F., CENTERED IN DOOR.	401-7	CLOSET	4'-0"	6'-8"	DWI	PT	F4		PT	HR04A		
		WEATHER SEALS SMOKE SEAL													
		3.101.202.2													
NEW PRIVA	TE RESIDENTIAL DOORS	ENTRY LOCKSET													
		• RATED HARDWARE • LOCKSET VV													
		• THUMB TURN DEADBOLT. • (3) HINGES													
HR01	RESIDENTIAL UNIT ENTRY DOOR	(1) SPRING CLOSER WIDE ANGLE VIEWER													
		WALL/FLOOR STOP SMOKE SEAL													
		DOOR SWEEP RUBBER THRESHOLD (LOW PROFILE)	CENTED AT NICEE												
		PRIVACY LOCKSET	GENERAL NOTES												
HR02	TYPICAL BEDROOM AND BATHROOM	• WALL/FLOOR STOP	THIS IS A HISTORIC TAX CREDIT PROJECT WITH SENSITIVE HISTORIC MATERIALS, INCLUDING DOORS & TRIM. DO NOT REMOVE ANY HISTORIC DOORS OR TRIM												
		WOOD "T" THRESHOLD STORAGE LOCKSET	UNLESS INDICATED IN THESE DRAWINGS & IN THE SHPO NARRATIVE.												
HR03	DOOR TO MECHANICAL CLOSET	OUTSIDE KEY LOCK, INSIDE ALWAYS UNLOCKED ACCESSIBLE BY LANDLORD ONLY (3) HINGES	DOOR FRAMES A. FURNISH AND INSTALL ALL DOOR FRAMES AS SHOWN ON THE DRAWINGS AND IN												
		WALL/FLOOR STOP WOOD "T" THRESHOLD	ACCORDANCE WITH FINAL SHOP DRAWINGS AND MANUFACTURER'S DATA AND INSTRUCTIONS.												
HR04	SINGLE DOOR TO CLOSET/STORAGE/LAUNDRY	PASSAGE LOCKSET • (3) HINGES • WALL/FLOOR STOP	B. SUBMIT SHOP DRAWINGS FOR FABRICATION AND INSTALLATION OF FRAMES. INCLUDE DETAILS OF EACH FRAME TYPE, CONDITIONS AT OPENINGS, DETAILS OF CONSTRUCTION,												
-	DOLIBLE CAMACING DOOR TO	CLOSET PULLS	LOCATION, AND INSTALLATION REQUIREMENTS OF FINISH HARDWARE AND REINFORCEMENTS, AND DETAILS OF JOINTS AND CONNECTIONS. SHOW ANCHORAGE												
HR04A	DOUBLE <u>SWINGING</u> DOOR TO CLOSET/STORAGE	DUMMY LEVER HANDLES BALL CATCHES 3 PAIR HINGES	AND ACCESSORY ITEMS. PROVIDE SCHEDULE OF FRAMES USING SAME REFERENCE FOR DETAILS AND OPENINGS AS THOSE ON CONTRACT DRAWINGS.												
			C. NEW FRAMES SHALL HAVE UL LABELS TO MATCH RATING NOTED IN DOOR SCHEDULE.												
GENERAL H	ARDWARE NOTES:		D. CET AND DRACE ALL DOOD FRANCE FRANCE CHALL BE DEFRADED FOR LIVE STATES	1											

- D. SET AND BRACE ALL DOOR FRAMES. FRAMES SHALL BE PREPARED FOR HARDWARE PER TEMPLATES FURNISHED BY HARDWARE SUPPLIER.
- E. COORDINATE LOCATIONS FOR OTHER TRADES TO BUILD IN THEIR WORK AS REQUIRED.

GENERAL HARDWARE NOTES:

PINCHING OR GRASPING THE DEVICE.

TO BE POWDER COAT TO MATCH.

SERIES), VON DUPRIN (98 SERIES)

7. PROVIDE INTERCHANGEABLE CORES

I. ALL HARDWARE TO BE OPERABLE IN THE DIRECTION OF EGRESS ALWAYS WITHOUT KNOWLEDGE, KEY OR TIGHT

COORDINATE KEYING REQUIREMENTS WITH OWNER. APPROVED MANUFACTURERS: BEST (9K3 SERIES), SCHLAGE (ND SERIES), SARGENT (10 LINE). KEY SYSTEM - PROVIDE MASTER SYSTEM (KEY INTO OWNER'S EXISTING SMALL

B. EXIT DEVICES ARE BASED ON PRECISION 2100 SERIES GRADE 1. APPROVED MANUFACTURERS: PRECISION (2100

A. HINGE SIZE, DOORS UP TO 3 FEET WIDE 4-1/2" X 4-1/2", DOORS WIDER THAN 3 FEET TO BE 5" X 4-1/2".

B. HINGE QUANTITY - 3 HINGES PER DOOR LEAF FOR DOORS UP TO 7'6". PROVIDE 4 HINGES FOR DOORS TALLER

C. DOOR CLOSERS ARE BASED ON DORMA 8900 SERIES GRADE I. PROVIDE WITH FULL COVER. APPROVED

2. ALL HARDWARE TO BE SATIN CHROME, STAINLESS STEEL AND POWDER COAT TO MATCH. EXIT DEVICES, EXTERIOR HINGES, KICK PLATES TO BE US32D, INTERIOR HINGES, LOCKSETS, WALL STOPS US26D, DOOR CLOSERS

3. ALL HARDWARE TO BE AS SPECIFIED OR APPROVED EQUAL.
A. LOCKSETS ARE BASED ON BEST CYLINDRICAL GRADE I (MORTISE LOCK FOR TOILETS WITH INDICATOR).

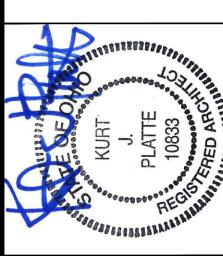
FORMAT KEY SYSTEM), 5 MASTER KEYS, 3 CHANGE KEYS PER CYLINDER.

6. COORDINATE ELECTRONIC ACCESS CONTROL REQUIREMENTS WITH OWNER

MANUFACTURERS: DORMA (8900 SERIES), LCN (4040XP SERIES).

5. COORDINATE KEYING REQUIREMENTS WITH OWNER.

- F. FURNISH AND INSTALL ALL DOORS AS SHOWN ON THE DRAWINGS AND IN ACCORDANCE WITH FINAL SHOP DRAWINGS AND MANUFACTURER'S DATA AND INSTRUCTIONS.
- G. SUBMIT DOOR MANUFACTURER'S PRODUCT DATA SPECIFICATIONS AND INSTALLATION INSTRUCTIONS FOR EACH TYPE OF DOOR. PROVIDE SCHEDULE OF DOORS USING SAME REFERENCE FOR DETAILS AND OPENINGS AS THOSE ON CONTRACT DRAWINGS.
- H. EXTERIOR DOORS TO BE INSULATED, THERMALLY BROKEN WITH WEATHERSTRIPPING, AND PROVIDED WITH ACCESSIBLE THRESHOLD.
- I. GLAZING IN DOOR LITES AND SIDE LITES SHALL BE CLEAR SAFETY GLASS, 1/4" THICKNESS, UNLESS OTHERWISE NOTED. WIRED GLASS, IS NOT ALLOWED. GLASS FRAMES IN DOORS SHALL HAVE FLUSH STOPS.
- SEE PLANS FOR REQUIRED FIRE RATINGS.
- K. FIT DOORS TO FRAMES WITH MINIMUM UNIFORM CLEARANCES AND BEVELS. DOORS SHALL BE PREPARED FOR HARDWARE AS REQUIRED BY HARDWARE SCHEDULE. SEAL DOOR EDGE SURFACES AFFECTED BY FITTING AND MACHINING. PROVIDE DOOR CLEARANCES SO THAT DOOR MAY FREELY MOVE ABOVE FINISH FLOOR MATERIAL.
- L. VERIFY SIZE OF ALL EXISTING DOORS AND DOOR OPENINGS IN FIELD. WHERE HISTORIC DOORS ARE BEING RELOCATED, VERIFY DOOR FITS IN NEW LOCATION. IF DOOR DOES NOT FIT, CONTACT ARCHITECT.



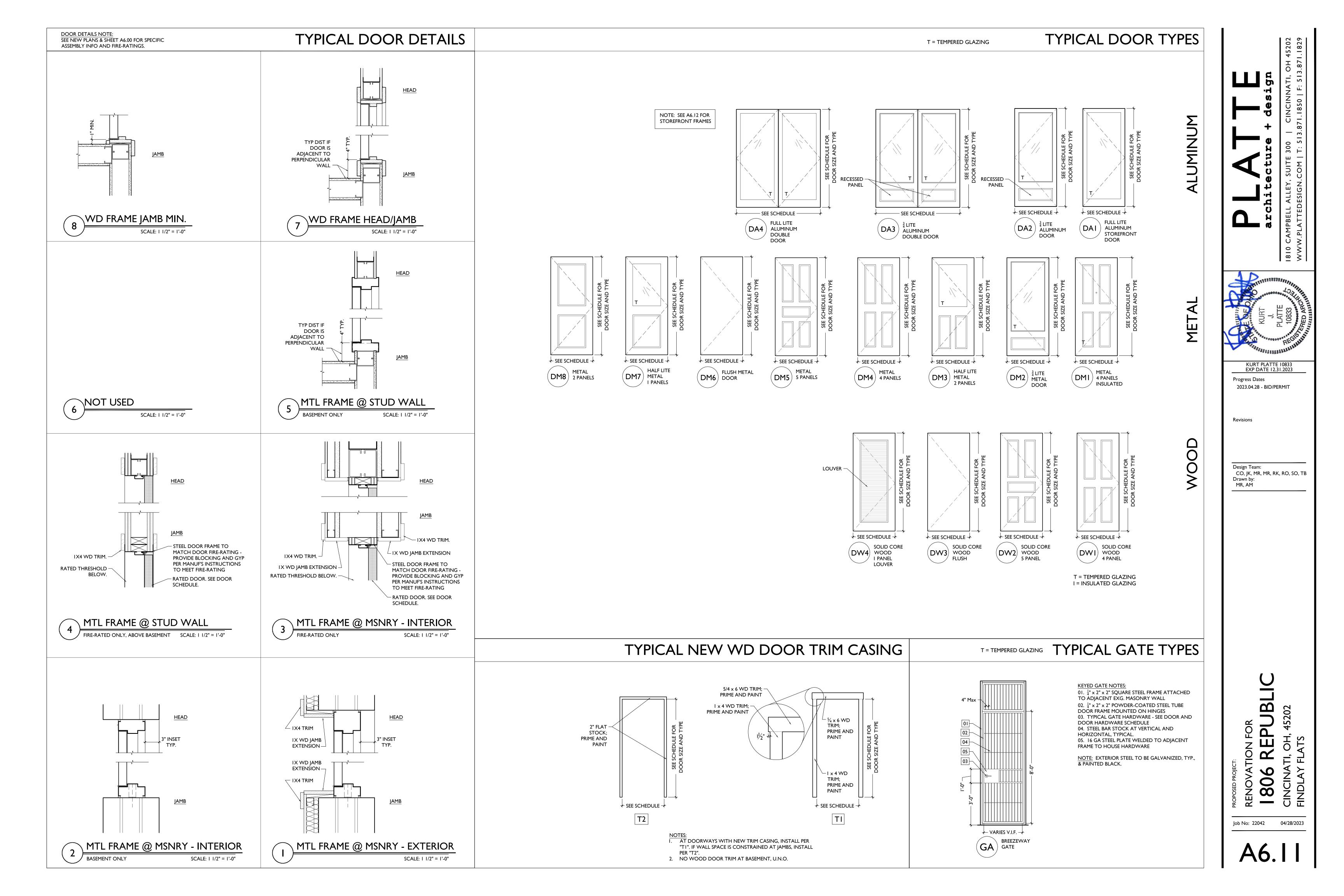
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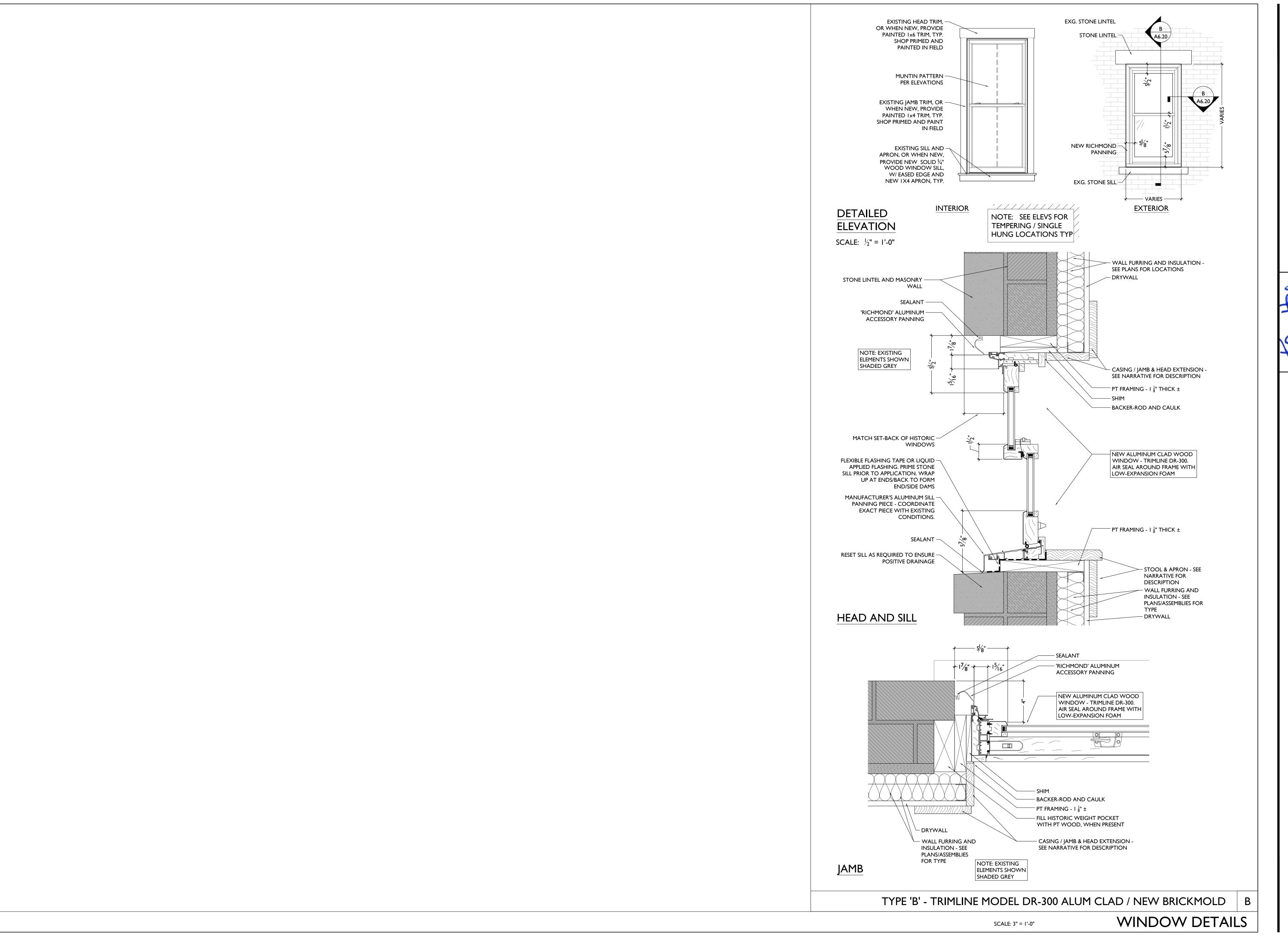
Design Team: CO, JK, MR, MR, RK, RO, SO, TB Drawn by: MR, AM

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Job No: 22042 04/28/2023

DOOR SCHEDULE





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Revisions

Design Team: CO, JK, MR, MR, RK, RO, SO, TB Drawn by: MR, AM

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Job No: 22042 04/28/2023

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1. Green Communities Checklist 2020 2. Green Communities Criteria 2020 N. ENERGY STAR Qualified Homes Program Requirements 1. https://www.energystar.gov/partner_resources/residential_new/homes_prog_reqs/nationa l_page SUBMITTALS A. The contractor shall submit the following items directly to the Green Rater/Verifier. B. Construction Waste Diversion Rate (Calculation and/or Waste Tickets) C. The contractor shall submit cut-sheets of products intended to comply with Environmentally Preferable Products (EPP). See Green Communities Checklist Section 6 for list of products intended to meet this requirement. EPP criteria are as follows: 1. Ingredient Transparency for Material Health Requirement – Publicly disclosed where content is characterized and screened using health hazard lists or restricted substances lists to 1,000 ppm 2. Recycled Content and Ingredient Transparency Requirement – Minimum 25% post-3. Chemical Hazard Optimization Requirement – Third-party verification of optimization to 4. Healthier Materials Selection Requirement – see specific requirements for low-emission paints, coatings, primers, wallpaper, adhesives, sealants, flooring, insulation, and composite wood under criterion 6.4. 5. Environmentally Responsible Material Requirement – see specific requirements for embodied emissions for concrete, steel, insulation, roofing, paving, and non-composite wood under criterion 6.5 6. Regional Materials Requirement – Extracted, manufactured, and fabricated (all processes) within 500-mile crow-fly distance of site. QUALITY ASSURANCE A. Perform work in accordance with the Enterprise Green Communities Criteria for prerequisites and credits pertinent to this project listed in Green Communities worksheet included at the end of this B. Maintain one copy of Green Communities Criteria on site. Criteria is available for download at https://www.greencommunitiesonline.org/sites/default/files/egc 2020 criteria manual.pdf C. Thoroughly review any requests for substitution for products that are related to Enterprise Green Communities prerequisites and credits. Any substitutions may jeopardize projects' ability to obtain D. Perform storm water management and erosion control Work in accordance with EPA Best Management Practices or local erosion and sedimentation control standards whichever is more E. Perform Work to meet or exceed minimum energy efficiency and performance in accordance with Energy Star requirements. Energy Star Checklist is enclosed at end of this section. . Perform Work without use of CFC based refrigerants in HVAC building systems. G. Perform ventilation Work in accordance with ASHRAE 62. H. Develop and implement construction indoor air quality management plan including the following: Comply with minimum requirements of SMACNA IAQ. 2. Protect stored and installed absorptive materials from moisture damage. a. Store materials on elevated platforms under cover, and in dry location. b. When materials are not stored in enclosed location, cover tops and sides of material with secured waterproof sheeting. 3. Protect HVAC equipment during construction. a. Shut down return side of HVAC system whenever possible during heavy construction or demolition. b.When HVAC systems are operated during heavy construction, furnish disposable temporary filters. Findlay Flats Russ Alley c. All mechanical, plumbing, and electrical penetrations in exterior and demising walls. replacing the water heater. Follow American National Standards Institute (ANSI) / American Water Works Association (AWWA) C810-17 Standard when replacing the LSL. Mechanical chase shall be sealed at crawl space ceiling. d. Exterior sheathing and house wrap. EGC 5.1b Building Performance Standard (mandatory) Demonstrate energy performance equivalent to a HERS Index of 100: Energy Analysis conducted by from unit to unit, and unit to corridor. Green Verifier confirms that the project is below HERS 100 target. On-site power generation may not Batt insulation shall be stapled to face of stud to ensure full contact of insulation with face be used to satisfy the minimum energy performance. Meeting energy performance standards further requires mandatory inspection and testing conducted by Owner Contracted Green Rater/Verifier for

M. Enterprise Green Communities:

e. Minimize entry of air from outside, attic, garage, and crawl space into exterior wall and interior wall cavities to ensure passing of air infiltration test. Also minimize air transfer

of drywall. Cut insulation around all mechanical, plumbing, and electrical work. Gasket attic access panels. Seal drywall to frame of access panel.

Distribution Loss Test (Duct Blaster Test) – Mandatory – Measures leakage through the mechanical distribution system and minimize duct leakage. Following areas HVAC distribution

Clean entire distribution system to decipher areas for sealing and minimizing duct

b. Joints and seams of existing ductwork shall be sealed where visible. c. Provide new metal lining for returns in visible areas where wall and floor cavities are used

Seal all duct boots in floors to subfloors and seal all duct boots in walls to drywall. e. Seal gaps between drywall and all duct penetrations in ceilings, including exhaust fans.

EGC 5.6 Sizing of Heating and Cooling Equipment (mandatory)

Applicable to rehabs that include replacement of heating and cooling equipment. 1. Size and select heating and cooling equipment in accordance with the Air Conditioning

EGC 5.7 Energy Star Appliances (mandatory)

Contractors of America (ACCA) Manuals J and S or ASHRAE handbooks.

1. If replacing or installing new appliances provide Energy Star-labeled refrigerators, dishwashers, and clothes washers.

EGC 5.8 Lighting (mandatory)

When replacing or installing new light fixtures 1. All permanently installed fixtures shall be high-efficiency that is capable of meeting recommended

light levels in the Illuminating Engineering Society Handbook, 10th edition. Recessed light fixtures installed as part of air barrier shall be Insulation Contact Air-Tight (ICAT)

3. Common space lighting or Non-apartment building spaces must be controlled by occupancy sensors or automatic bi-level lighting controls, except 24-hour lighting required by code.

Lighting power density in dwelling units shall be 1.1 W/SF or less.

5. All exterior lighting shall have motion sensor controls, integrative PV cells, photosensors, or

astronomic time-clock operation. 6. Exterior fixtures shall meet the following:

> a. Luminaires shall be fully shielded emitting no light above 90 degrees. The luminaire's mounting hardware shall not permit mounting in any configuration other than those maintaining full shielding. Non-residential luminaires shall have an uplight rating of U0.

b. Fixtures shall have no sag or drop lenses, side light panels or uplight panels.

 Fixtures shall employ warm-toned (3000k or lower) white light sources or may employ amber light sources or filtered LED light sources.

4. Air Infiltration Test (Blower door Test) – Mandatory – Measures air leakage through unit **EGC 6.4 Healthier Material Selection (mandatory)** enclosure such as exterior walls, demising walls, ceilings, chases, etc. Minimum envelope leakage where applicable. Following areas of building envelope and demising walls shall be Use products that comply with the following requirements. sealed, caulked, gasketed, or weather-stripped to minimize envelope leakage: PRODUCT MANDATORY ADDITIONAL CATEGORY POINTS

 Joints around exterior doors and windows. b. Joints between walls and foundation; between conditioned spaces and attics, demising

Conduct compartmentalization of dwelling units via air infiltration no greater than 0.30 CMF50 for

CFM50/sf compared to pre-retrofit conditions, following procedures in ANSI/RESNET/ICC Std. 380.

2. Grade II installation for assemblies that contain a layer of continuous, air impermeable insulation

3. Grade II batt insulation floors if they fill the full width and depth of the floor cavity, even when

HVAC systems repaired or installed during rehab must complete testing via the National HVAC

Functional Testing Checklist, ENERGY STAR Multifamily New Construction Version 1.1 (or most

1. EGC Certification will require visual inspection of thermal envelope per enclosed Energy Star

Rater Field Checklist at mid-construction. Coordinate inspection with Green Verifier with a

minimum of 3-week notice. (Only applicable-scope items will be inspected for renovations.)

1. Upon substantial completion and prior to occupancy, the Green Verifier will conduct a visual Final

2. Testing - Third-party Testing is to be scheduled and conducted in conjunction with the final

inspection. The contractor shall notify the Green Verifier at least four (4) weeks prior to the

anticipated date for such inspection. Contractor shall provide access to each unit and cooperate

Preconstruction Pretest – A pre-construction pretest was conducted to identify areas to envelope,

d. Seal all visible gaps and cracks where interstitial cavities (wall, joist, ceiling, and stair) are

necessary due to incomplete work shall be back-charged to the Contractor.

demising unit enclosures. Recommended areas for sealing include:

Joints between duct boots and drywall and floor finishes.

c. Plumbing and attic access panels.

walls, crawl spaces and garage.

used as return ducts.

b. Gaps at plumbing penetrations to drywall and floor finishes.

Inspection to verify green requirements incorporated in the project. The contractor shall notify the

shall provide access to each unit and cooperate with conducting of the test. Additional inspections

Green Rater at least four (4) weeks prior to the anticipated date for such inspection. Contractor

Substantial Rehab per square feet of dwelling unit enclosure area or a 20% improvement of

Insulation installed as part of the rehab must achieve the following:

(≥ R-3 in Climate Zones 1 to 4, ≥ R-5 in Climate Zones 5 to 8).

Mandatory Mid-Construction Pre-Drywall Thermal Bypass Inspection:

1. Grade I installation per ANSI/RESNET/ICC Std. 301.

compression occurs due to excess insulation.

recent checklist version available at time of permit).

Final Verification and Inspection Testing

with conducting of the test.

ERI Option

Green certifications.

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REFERENCE

018113

PART 2 PRODUCTS

PRODUCT SUBSTITUTION

A. Thoroughly review any requests for substitution for products that are related to Green Communities prerequisites and credits. Any substitutions may jeopardize the project's ability to obtain certification.

PART 3 EXECUTION

EGC 1.4 Integrative Design: Construction Management (mandatory)

1. At the onset of construction organize an Enterprise Green Communities trades training

moderated by Green Verifier. 2. Following trades to attend - GC Project Manager, GC Site Superintendent, Mechanical-Electrical-

Plumbing, Insulation, Framing, Drywall, Air-Infiltration Package. 3. Provide a minimum of 2-week notice to Green Verifier prior to training date.

EGC 2.1 Site Selection (mandatory)

This project does not have any ecologically sensitive features. If ecologically sensitive features are identified in the Ecological Resource Protection Zone (ERPZ) meet the following:

a. Projects built on land that is within the Special Flood Hazard Area (SPHA) as identified by FEMA, must be designed to meet the ASCE 24 Flood Resistant Design and Construction

a. Ensure that any development or redevelopment activities within the floodplain will mitigate and improve existing floodplain conditions (maintain or increase existing floodplain storage, improve water quality, implement flood-resilient design).

2. Protect aquatic ecosystems a. Do not extend the building, built structures, roads, or parking areas into wetlands or

deepwater habitats, as identified in the ERPZ, beyond where they already exist. b. Develop restoration plans for wetland and deepwater habitats within the ERPZ.

3. Conserve habitat for any species on federal or state threatened or endangered lists a. Do not extend the building, built structures, roads, or parking areas into habitats for threatened and endangered plant and animal species on the site, as identified in the

b. Minimize disturbances within the ERPZ during construction. If construction activities permanently disrupt the habitat of threatened or endangered animal habitats, follow the guidance of responsible state (or local) agencies on how to best address.

EGC 2.14 Local Economic Development and Community Wealth Creation

b. Do not raise topographical elevations in flood zones.

1. Contractor shall demonstrate that local preference for construction employment and subcontractor hiring was part of bidding process.

EGC 3.1 Environmental Remediation (mandatory)

1. Submit Phase 1 Environmental Site Assessment report to Green Verifier/Verifier If an environmental site assessment reveals any hazardous materials, mitigate these before proceeding with development.

EGC 3.2 Erosion and Sedimentation Control (mandatory) Applies only when any site-work or excavation is in scope: Contractor shall implement EPA's National Pollutant Discharge Elimination System (NPDES)' Stormwater Discharges from Construction Activities guidance, or local requirements, whichever is

more stringent. If excavation and site work is part of scope:

1. Stockpile and protect disturbed topsoil for reuse.

Fluid applied finish floors

may only be installed in

wool batts are used, these

must be formaldehyde-

non-occupied spaces,

such as mechanical

Insulation If fiberglass or mineral

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VOC content less than or 1 point per APE-For wall finish paints compliant with the equal to the thresholds free paint, coating | mandatory CDPH specification, seek those certified to Master Painters coatings, provided by the most and/or primer 1 point per CDPH-Institute (MPI) X-Green, Green Wise **primers and** recent version of SCAQMD 1113 available Gold, GREENGUARD Gold, SCS Indoor wallpaper compliant coating at time of product Advantage Gold, and Berkeley Analytical and/or primer specification for all interior (excluding wall ClearChem. GS-11 paints comply with paints, coatings and finish paints) the optional APE-free criterion, as do [2 points Red List-free products. VOC emissions verified as | maximum] compliant with CDPH Standard Method for all wall finish paints. All wallpaper, phthalate VOC content less than or All interior Use of sealants Orthophthalate plasticizers are common equal to the thresholds that do not contain | in polyurethane and modified polymer adhesives sealants. While not common, they may provided by the most orthophthalate sealants recent version of plasticizers. Use also be found in some acrylic latex or SCAQMD 1168 available siliconized acrylic sealants. Verify that of adhesives that at time of product are CDPH specified sealants are phthalate-free. specification for all interior compliant. Minimize the need for adhesives when [1 point per possible. For instance, finger-joints and adhesives and sealants. mechanical fasteners do not contain compliant product, 2 points chemicals of concern. maximum] All flooring products The project Common flooring product labels that (whether carpet or hard complies with one meet or exceed the mandatory CDPH surface) must comply with of the following emission requirement include FloorScore, GREEN-GUARD Gold, SCS CDPH emission options: requirements. Absence of vinyl-Indoor Advantage Gold, Berkeley No flexible PVC with flooring throughout | Analytical ClearChem, and Carpet Rug Institute Green Label Plus (CRI+). phthalates may be the project installed, whether the Absence of carpet | In place of vinyl or other PVC-based phthalates were throughout the resilient flooring, consider salvaged hardwoods, natural linoleum, rubber, intentionally added or project All project flooring | cork, other PVC-free resilient flooring, added via recycled assemblies ceramic or stone tile, sealed concrete, or content. No carpet in the project (adhesive, pre-finished solid wood flooring. Presealant, flooring may be installed in finished products, compared to those building entryways, product) are Red | finished on site, keep potential laundry rooms, bathrooms, List-free exposures lower through a more kitchens/kitchenettes, or controlled environment during finishing. If possible, use a floor system that can utility rooms. [3 points]

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If using carpet,

do not use a

specify those that

stain repellant. [1

not include any

two-part spray

polyurethane

foam. [2 points]

The project does

feature mechanical attachments (e.g.,

nails, floating wood flooring) instead of

glues. This approach makes flooring

Alternative insulation products include

recycled cotton, cellulose, wool, and

manufacturers of residential fiberglass

batt insulation have transitioned to formaldehyde-free products. Some

blown fiberglass. All major U.S.

fluorinated (PFAS) easier to recycle in the future.

2. Control the path and velocity of runoff with silt fencing or equivalent.

3. Protect sewer inlets, streams, and lakes on site during construction with silt fencing, silt sacks or comparable measures.

4. Provide swales to divert surface water from hillsides. 5. Identify and protect significant, high value trees during construction with fencing outside the critical root zone.

6. If soil is disturbed during construction on sloped areas, use tiers, erosion blankets, compost blankets, etc. to stabilize soil.

EGC 3.3 Ecosystem Services/ Landscape (mandatory)

When new landscaping is provided, or existing landscaping is modified:

1. All new landscaping (trees, shrubs, and groundcover, including grasses) should be native or adapted to the region. All new plants must be appropriate to the site's soil and microclimate, and none should be invasive species.

2. All disturbed existing landscape areas should be reseeded with native groundcover or plans and

EGC 3.4 Surface Stormwater Management (mandatory)

Applicable to New Construction or Rehab disturbing greater than 5,000 square feet 1. Treat or retain, on site, the precipitation volume from the 60th percentile precipitation event as

defined by the U.S. EPA in the Technical Guidance on Implementing the Stormwater Runoff Requirements for Federal Projects under Section 438 of the Energy Independence and Security

EGC 3.6 Efficient Irrigation and Water Reuse (mandatory)

When new irrigation system is provided, or existing system is modified: 1. Comply with all local water restrictions.

2. Design irrigation zones to respond to weather considerations, solar exposure, reflected light/heat from adjacent building or hardscape, soil type, topography/slope, plant material.

3. Establish irrigation volume and frequency per zone to be appropriate for the climate, soil type,

4. Select emission devices, valves, pipes, controllers, and sensors suitable to the landscape

requirements that will facilitate long-term reliability and serviceability.

5. Design irrigation system to target each planting area with no overspray of impervious surfaces or adjacent planting areas. Prevent runoff of water from the site. 6. Install timer/controller that activates the valves for each watering zone at the best time of day to

water-use guidance. 7. Install soil moisture sensor controller per vegetation zone or rain delay controller.

EGC 4.1 & 4.2 Water-Conserving Fixtures (mandatory)

1. Service pressure in each unit must not exceed 60 psi. Provide documentation of municipal water pressure. Green verifier will test water pressure at units.

minimize evaporative losses while maintaining healthy plants and obeying local regulations and

2. Following flow rates are required to reduce total indoor water consumption by 30%:

3. Toilets must be WaterSense certified and 1.28 gallons per flush or less, including dual-flush and pressure-assisted models.

4. Urinals must be **WaterSense certified** and **0.5** gallons per flush or less.

5. Showerheads must be **WaterSense-labeled** and **1.75** gallons per minute or less.

6. Kitchen faucets must be **1.5** gallons per minute or less. 7. Lavatory faucets must be **WaterSense certified** and **1.2** gallons per minute or less.

EGC 4.3 Water Quality (mandatory)

Mandatory for Substantial Rehabs built before 1986. Optional for all other projects 1. Replace lead service lines. Determine whether a lead service line (LSL) connects the drinking

water main under the street with the building. If an LSL is present, replace it before or while

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The project uses formaldehyde-free mineral wool batts are board insulation also available that does not contain halogenated flame retardants. [3 While finish products (including plywood, **Composite** Formaldehyde emissions Use of composite MDF, particleboard, and cabinet and less than or equal to the woods that are certified ultra-low thresholds provided by door components) comply by law with this mandatory requirement, ensure that CARB Phase 2 and/or emitting TSCA Title IV for plywood, formaldehyde all products installed in the project that particleboard, MDF, and (ULEF), 1 point are exposed to the conditioned space these materials within per product. meet these standards or at a minimum other products like do not include added urea formaldehyde. [2 points cabinets and doors. For maximum] No-added formaldehyde (NAF) products qualify as ULEF and will be eligible for any other composite wood products not covered by optional points. However, be aware that CARB/TSCA the alternative binders utilized in these requirements, but used in products may include regrettable interior spaces, these must substitutions. For instance, the most at minimum be NAUF common alternative binder for composite wood is PMDI, which is made with (have no added urea formaldehyde). isocyanates. PMDI is expected to be a lower hazard during use than formaldehyde, but more information is needed. Preferable alternatives would be more than half bio-based (e.g., binders

EGC 6.6 Bath, Kitchen, Laundry Surfaces (mandatory)

1. Use materials that have durable, cleanable surfaces through bathrooms, kitchens, and laundry rooms. Materials should not be prone to deterioration due to moisture intrusion or encourage the arowth of mold.

that are at least 50% soy) with full

EGC SPECIFICATIONS

for health hazards.

content disclosure, so they can be vetted

2. Use moisture-resistant backing materials such as cement board, fiber cement board, or equivalent per ASTM #D 6329 or ASTM #D 3273 behind tub/shower enclosures. Projects using a one-piece fiberglass enclosure are exempt from this requirement.

EGC 6.8 Managing Moisture: Foundations (mandatory) Applicable when foundation work is in scope.

Beneath Concrete Slabs (including those in basements and crawl spaces)

1. Install a capillary break as follows: 4-inch layer of ½-inch diameter or greater clean aggregate. 2. Immediately above the capillary break, install at least 6-mil polyethylene sheeting overlapped at

least 6 inches at the seams to serve as a vapor retarder in direct contact with the slab above. Option 2 1. Install a 4-inch uniform layer of sand, overlain with a layer or strips of geotextile drainage matting

installed according to the manufacturer's instructions. 2. Immediately above the capillary break, install at least 6-mil polyethylene sheeting overlapped at

least 6 inches at the seams to serve as a vapor retarder in direct contact with the slab above.

EGC 6.9 Managing Moisture: Roofing and Wall Systems (mandatory) Applicable only when wall or roof systems are replaced.

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2. Flashings at roof /wall intersections and wall penetrations (i.e., plumbing, electrical, vents, HVAC refrigerant lines and the like in addition to windows and doors) must be integrated with the weather-resistive barrier and drainage plane prior to any exterior finish being installed to prevent bulk water from entering the exterior wall assembly.

3. Flashing installed at bottom of exterior walls with weep holes included for masonry veneer and weep screen for stucco cladding systems or equivalent drainage system.

Install drip edge at entire perimeter of roof.

2. At wall /roof intersections, maintain ≥2" clearance between wall cladding and roofing materials, install flashing along the intersection, and use kick-out flashing.

EGC 6.10 Construction Waste Management (mandatory)

Contractor to investigate local options for diversion of all construction waste and develop a plan for tracking waste diversion either through a contracted company or by tracking and sorting following components of construction waste.

Option 1 1. Recycle a minimum of **75%** of total construction waste

EGC 6.11 Recycling Storage

1. Owner to provide separate bins for the collection of trash and recycling for each dwelling unit and all shared community rooms (if applicable).

EGC 7.1 Radon Mitigation (mandatory) Applicable only in EPA Zone 1

Substantial Rehab

- 1. Owner AND/OR Contractor to confirm pre-construction radon test was conducted by third-party certified radon professional.
- 2. Test for radon in accordance with ANSI-AARST MAMF-2017 standards for multifamily buildings or ANSI-AARST MAMF-2014 for single-family homes.
- 3. If the radon level is above 4 pCi/L, contractor to install radon-reduction measures or install a radon mitigations system per ANSI-AARST RMS-MF 2018 for multifamily buildings or SGM-SF-2017 for homes.
- 4. After construction completion, have building tested for radon by third-party certified radon professional. If radon levels are above 4 pCi/L, install mitigation in accordance with ANSI-AARST MAMF-2017 standards for multifamily buildings or ANSI-AARST SGM-SF-2017 or ASTM 2021 for single-family homes.

EGC 7.2 Reduce Lead Hazards in Pre-1978 Buildings (mandatory)

- 1. Conduct lead risk assessment or inspection to identify lead hazards. 2. Control identified lead hazards using lead abatement or interim controls, using lead-safe work
- practices that minimize and contain dust.
- 3. Follow EPA or state and/or local laws and requirements, where applicable. Alternatively, follow standard lead treatments defined by HUD as a series of hazard reduction measures designed to reduce all lead-based paint hazards in a dwelling unit without the benefit of a risk assessment or other evaluation (25 CFR 34.110).
- 4. Replace windows that have deteriorated lead-based paint with energy-efficient windows. 5. A lead inspection should be undertaken by an EPA certified risk assessor to determine whether
- paint in a rehab project contains lead, otherwise paint should be presumed to contain lead and lead-safe work practices are required.
- 6. Perform dust lead clearance testing at the conclusion of renovation work; compare against EPA dust lead clearance standards.

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7. Remove or cover lead-contaminated soil so that it is inaccessible to children. For gardening, use raised beds with lead-free soil.

EGC 7.3 Combustion Equipment (mandatory)

- Applicable only when combustion equipment is provided anywhere in the building: 1. Provide at least one hard-wired carbon monoxide detector with battery backup for each sleeping
- area, minimum one on each floor. 2. Any combustion equipment installed must be power-vented or closed-combustion.
- 3. For Substantial Rehabs with combustion equipment that is not power-vented or direct-vent, Owner AND/OR Contractor to confirm pre-construction combustion safety test was conducted. The test must be conducted for central systems and for 10% of individual dwelling units systems per RESNET Guidelines for Combustion Safety and Developing Work Orders or BPI Combustion Safety Test Procedures for Vented Appliances.

EGC 7.5 Integrated Pest Management (mandatory)

- 1. Seal all wall, floor and joint penetrations with low-VOC caulking or other appropriate nontoxic
- 2. Install corrosion-proof metal pest screens for all openings greater than ¼ inch.
- 3. Seal off entry points under kitchen and bathroom sinks.

EGC 7.7 Ventilation (mandatory) Local Exhaust

- a. Design and install local exhaust systems in all bathrooms (including half-baths) and the kitchen to meet the requirements of ASHRAE Standard 62.2–2010, Sections 5 and 7 or local equivalent, whichever is more stringent. Provide minimum intermittent local exhaust flow rates of 100 cfm or 5ACH in kitchen, and 50 cfm in bathrooms.
- b. Exhaust air to the outdoors. Do not route exhaust ducts to terminate in attics or interstitial spaces. Just recirculating range hoods or recirculating over-the-range microwaves do not satisfy the kitchen exhaust requirements.

c. Use ENERGY STAR-labeled bathroom exhaust fans in all bathrooms. Ventilation

- a. Fresh air ventilation to dwelling units shall comply with ventilation requirements of ASHRAE 62.2-2010.
- b. Project teams using exhaust-only ventilation systems must comply with flow rate required by ASHRAE 62.2–2010. If bathroom exhaust fan is used for exhaust-only fresh-air ventilation, then refer to HVAC drawings for exhaust fan run-time and controls. Coordinate continuous / intermittent fan run-time and controls with HVAC and Electrical contractor. Provide dual-speed bathroom exhaust fan with continuous speed set to 30 cfm in 1-Bedroom units, 45 cfm in 2-Bedroom units, and 45 cfm in 3-Bedroom units.
- 3. In full accordance with ASHRAE 62.1-2010, install a mechanical ventilation system for all hallways and common spaces in each multifamily building of four stories or more.
- 4. All systems and associated ductwork must be installed per manufacturer's recommendations. 5. If using central ventilation systems with rooftop fans, each rooftop fan must be direct-drive and
- variable-speed with speed controller mounted near the fan. Fans with design CFM 300-2000 must also have an ECM motor.
- 6. Green Verifier/Energy Rater to conduct testing to verify dwelling unit ventilation system flow rates are within 15 CFM or 15% of the design value.

EGC 7.12 Beyond ADA: Universal Design (mandatory)

Select one option below to implement. Implement three strategies in that option. For all selected strategies affecting dwelling units, implement that strategy for 75% of the project's dwelling units. 1. Create approachable building entries that are welcoming, are easy to identify, promote feelings of safety, and are accessible without the use of stairs. Include a covered entryway with seating,

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greenery, and lighting. Include exterior signage that is prominent, visible from sidewalk, access

- road, or parking lot. 2. Provide clear signage throughout the building that avoids jargon, uses clear language, incorporates a positive frame, and is multi-lingual where appropriate. Incorporate illustrations to encourage universal understanding. Signage for way-finding and other purposes should be available in the interior and exterior spaces.
- 3. Avoid strong patterns on floor finishes. Use carpets and flooring that have subtle neutral patterns.

EGC 8.1 Building Maintenance Manual (mandatory)

1. General Contractor to provide Maintenance manual that addresses HVAC operations and maintenance, appliance guidance, lighting equipment, green cleaning products, and pest control. Refer to EGC 2020 criteria handbook for details.

EGC 8.2 Emergency Management Manual (mandatory)

- 1. General Contractor to provide Emergency Management Manual targeted toward operations and maintenance staff and other building level personnel. The manual should address responses to various types of emergencies, leading with those that have the greatest probability of negatively affecting the project. The manual should provide guidance as to how to sustain the delivery of adequate housing throughout an emergency and cover a range of topics including but not limited
- a. Communication plans for staff and residents to use in the event of an emergency.
- b. Useful contact information for public utility and other service providers c. Infrastructure and building "shutdown" procedures

EGC 8.4 Walk-throughs and Orientations to Property Operations (mandatory)

General Contractor to provide a comprehensive walk-through and orientation for property manager(s) and building operations staff within 90 days of initial occupancy. Use the appropriate manuals (8.1 & 8.2) as the base of the curriculum, and review the project's green features, operations and maintenance procedures, and emergency protocols.

ENCLOSURES

1. Enterprise Green Communities Checklist 2. Energy Star National Rater Field Checklist

END OF SECTION 018113

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National Rater Field Checklist

ENERGY STAR Multifamily New Construction, Version 1 / 1.1 / 1.2 (Rev. 01)

Project Name:					
Project Address:	_ City:		_ State: ₋		
Thermal Enclosure System		Must Correct	Builder Verified ³	Rater Verified ⁴	N/A
1. High-Performance Fenestration & Insulation					
1.1 Fenestration meets or exceeds specification in Items 2.1 & 2.2 of the Nat	Rater Design Review Checklist.				-
1.2 Insulation meets or exceeds specification in Items 3.1 & 3.2 of the Natl Ra					-
1.3 All insulation achieves Grade I install. per ANSI / RESNET / ICC Std. 301	. Alternatives in Footnote 6. ^{6,7}				-
1.4 Prescriptive Path: Window-to-wall ratio ≤ 30%. 8					
 Heated plenums in unconditioned space or ambient conditions must meet 	the following requirements: 9				
1.5.1 Sides of plenum are an air barrier and insulated to ≥ R-3ci in CZ 1-4 CZ 7; ≥ R-9.5ci in CZ 8, AND;	1; ≥ R-5ci in CZ 5-6; ≥ R-7.5ci in	_			
1.5.2 Insulation at top of plenum meets or exceeds the R-value for mass of Table 502.2(1) of 2009 IECC, AND ;	floors from the "All Other" column	_	_	_	
1.5.3 Bottom of plenum must have at least R-13 insulation. 10					
1.6 Garages with space heating must meet the following requirements: 9					
1.6.1 Insulation on above grade walls and walls on the first story below gr in CZ 7; ≥ R-9.5ci in CZ 8, AND;	ade ≥ R-5ci in CZ 5-6; ≥ R-7.5ci	_			
1.6.2 Garage ceiling insulation meets or exceeds the R-value for mass flo of Table 502.2(1) of 2009 IECC.	ors from the "All Other" column	_			
<u>Ceilings:</u> At interior or exterior horizontal surface of ceiling insulation in Climat Climate Zones 4-8. Also, at exterior vertical surface of ceiling insulation in all of the insulation in every bay or a tabbed baffle in each bay with a soffit vent to	climate zones (e.g., using a wind	baffle that	extends t s). 12		eigh
2.1 Dropped ceilings / soffits below unconditioned attics, chase / dead space,					
Walls: At exterior vertical surface of wall insulation in all climate zones; also a	interior vertical surface of wall in	sulation ir	Climate 2	Zones 4-8.	13
2.2 Walls behind showers, tubs, staircases, and fireplaces.					
2.3 Architectural bump-outs, dead space, and all other exterior walls.					-
<u>Floors</u> : At exterior vertical surface of floor insulation in all climate zones and, i including supports to ensure alignment. Alternatives in Footnotes 15 & 16. 14, i	f over unconditioned space, also a 5, 16	at interior	horizontal	surface	
2.4 Floors above garages, floors above unconditioned spaces, and cantilevered	ed floors.				
2.5 All other floors adjoining unconditioned space (e.g., rim / band joists at ext	erior wall or at porch roof).				
3. Reduced Thermal Bridging					
3.1 For insulated ceilings with attic space above (i.e., non-cathedralized), Grainside face of the exterior wall below and is ≥ R-21 in CZ 1-5; ≥ R-30 in C	ide I insulation extends to the Z 6-8. ¹⁷	_	_	_	_
3.2 For insulated ceilings with attic space above, attic access panels and dro equipped with durable ≥ R-10 cover. ¹⁸	o-down stairs insulated ≥ R-10 or	_	_		С
3.3 Insulation beneath attic platforms (e.g., HVAC platforms, walkways) ≥ R-2	21 in CZ 1-5; ≥ R-30 in CZ 6-8.				
3.4 For slabs on grade in CZ 4-8, 100% of slab edge insulated to ≥ R-5 at the 502.2(1) of the 2009 IECC and aligned with the thermal boundary of the v			_		
3.5 For elevated concrete slabs in CZ 4-8 (i.e., podiums and projected balcor floor edges) 100% of the slab edge insulated to ≥ R-5. For podiums, insul full height of the podium wall. Alternatives in Footnote 21. ²¹		_	_	_	_
3.6 For elevated concrete slabs in CZ 4-8 (i.e., podiums, but not intermediate meets the U-factor specified in Table 502.1.2 of the 2009 IECC for Group above the slab, and for 'All Other' when common space is above the slab	R when dwelling units are				
3.7 At above-grade walls and rim / band joists separating conditioned from ur		lowing op	tions used	23,26	
3.7.1 Continuous rigid insulation, insulated siding, or combination of the t \geq R-3 in CZ 1-4; \geq R-5 in CZ 5-8 ^{24, 25, 26, 27} , OR ;					
3.7.2 Structural Insulated Panels OR; Insulated Concrete Forms OR; Dou	uble-wall framing OR ; ^{24, 26, 28}				
3.7.3 Option only for wood-framed walls either in CZ 1-3 OR ≤ 3 stories:	advanced framing' details including	ng all of th	e Items b	elow: ^{26,29}	
3.7.3a Corners insulated ≥ R-6 to edge ³⁰ , AND ;					
3.7.3b Headers above windows & doors insulated ≥ R-3 for 2x4 framing ≥ R-5 for all other assemblies (e.g., with 2x6 framing) ³¹ , AND ;	g or equivalent cavity width, and		_		С
3.7.3c Interior / exterior wall intersections insulated to same R-value as	rest of exterior wall. 32				
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National Rater Field Checklist

	1.1 / 1.2	د (Rev.	. 01)	
Air Sealing (Unless otherwise noted below, "sealed" indicates the use of caulk, foam, or equivalent material.)	Must Correct	Builder Verified ³	Rater Verified ⁴	N/A ⁵
The following items must be verified in dwelling units and common spaces to reduce air leakage to extended inconditioned spaces.	erior, adjace	ent buildir	ngs, or	
.1 Ducts, flues, shafts, plumbing, piping, wiring, exhaust fans, & other penetrations to unconditioned space sealed, with blocking / flashing as needed.		_	_	-
.2 Recessed lighting fixtures adjacent to unconditioned space ICAT labeled and gasketed. Also, if in insulated ceiling without attic above, exterior surface of fixture insulated to ≥ R-10 in CZ 4-8.		0		
.3 Continuous top plate or blocking is at top of walls adjoining unconditioned space including at balloon-framed parapets, and sealed.				
.4 Drywall sealed to top plate at all unconditioned attic / wall interfaces using caulk, foam, drywall adhesive (but not other construction adhesives), or equivalent material. Either apply sealant directly between drywall and top plate or to the seam between the two from the attic above.			_	
.5 Rough opening around windows & exterior doors sealed. 33				-
.6 Assemblies that separate attached garages from occupiable space sealed and, also, an air barrier installed, sealed, and aligned with these assemblies. 34				
.7 Doors adjacent to unconditioned space (e.g., attics, garages, basements) or ambient conditions made substantially air-tight with doorsweep and weatherstripping or equivalent gasket.		_	_	
.8 Attic access panels, roof hatches and drop-down stairs are gasketed (i.e., not caulked) or equipped with durable covers that are gasketed. ¹⁸			_	
he following items must be additionally verified in dwelling units, to reduce air leakage between condi	ioned spac	es.		
.9 Doors serving as a unit entrance from a corridor/stairwell made substantially air-tight with doorsweep an weatherstripping or equivalent gasket.			_	
.10 Rater-measured compartmentalization is no greater than 0.30 CFM50 per square feet of dwelling unit enclosure area, following procedures in ANSI / RESNET / ICC Std. 380. 35		-		
4.10.1 For dwelling units with forced air distribution systems without ducted returns and located in a close adjacent to unconditioned space, the Rater-measured pressure difference between the space containing the air handler and the conditioned space during the compartmentalization test is no greater than 5 Pa. ³		-		
IVAC System 37			Rater	
5. Heating & Cooling Eqpt. – Complete Path A - Dwelling Unit HVAC Grading OR Path B – Dwelling Unit Commissioning ³⁸	HVAC	Must Correct	Verified 4	N/A ⁵
5a.1 Blower fan volumetric airflow is Grade I or II per ANSI / RESNET / ACCA Std. 310				
5a.2 Blower fan watt draw is Grade I or II per ANSI / RESNET / ACCA Std. 310				
5a.3 Refrigerant charge is Grade I per ANSI / RESNET / ACCA Std. 310. See Footnote 40 for exemp				
5b.1 HVAC manufacturer & model number on installed equipment matches either of the following (chepath ☐ National HVAC Design Report (4.6-4.9 & 4.25-4.26) ☐ Written approval received from designer	eck box): 41			-
			•	
B 5b.2 External static pressure measured by Rater at contractor-provided test locations and documente Return-Side External Static Pressure: IWC Supply-Side External Static Pressure:	d below: ⁴² IWC			
Return-Side External Static Pressure: IWC Supply-Side External Static Pressure:	IWC	0	0	0
Return-Side External Static Pressure: IWC Supply-Side External Static Pressure: i.4 Prescriptive Path: Heating and cooling equipment serving dwelling units and common spaces meet the e	IWC ficiency			
Return-Side External Static Pressure: IWC Supply-Side External Static Pressure: i.4 Prescriptive Path: Heating and cooling equipment serving dwelling units and common spaces meet the e levels specified in the Exhibit X. Electric resistance heating is not installed in dwelling units. 5.5 ERI Path: Heating and cooling equipment serving common spaces, but not serving dwelling units, meet to	IWC ficiency ne efficiency			
Return-Side External Static Pressure: IWC Supply-Side External Static Pressure: i.4 Prescriptive Path: Heating and cooling equipment serving dwelling units and common spaces meet the elevels specified in the Exhibit X. Electric resistance heating is not installed in dwelling units. 5.5 ERI Path: Heating and cooling equipment serving common spaces, but not serving dwelling units, meet to levels specified in the Exhibit X. See Exhibit X for restrictions on electric resistance heating. 6.6 National HVAC Functional Testing Checklist(s) collected prior to certification, with all HVAC systems in the project fully documented. Exception: Where credentialed HVAC Contractor(s) are completing the National Functional Testing Checklist, the checklist is not required to be collected for the systems they verify. 6.7 Rater has verified that Functional Testing Agent(s) ("FT Agent(s)") completing the National HVAC Functional Checklist(s), hold(s) one of the required credentials and are listed on the appropriate online directory. 6.8 Credential(s):	IWC ficiency ne efficiency e building / HVAC			0
Return-Side External Static Pressure: IWC Supply-Side External Static Pressure: i.4 Prescriptive Path: Heating and cooling equipment serving dwelling units and common spaces meet the elevels specified in the Exhibit X. Electric resistance heating is not installed in dwelling units. 6.5 ERI Path: Heating and cooling equipment serving common spaces, but not serving dwelling units, meet to levels specified in the Exhibit X. See Exhibit X for restrictions on electric resistance heating. 6.6 National HVAC Functional Testing Checklist(s) collected prior to certification, with all HVAC systems in the project fully documented. Exception: Where credentialed HVAC Contractor(s) are completing the National Functional Testing Checklist, the checklist is not required to be collected for the systems they verify. 6.7 Rater has verified that Functional Testing Agent(s) ("FT Agent(s)") completing the National HVAC Functional Checklist(s), hold(s) one of the required credentials and are listed on the appropriate online directory.	IWC ficiency ne efficiency e building / HVAC		0	
Return-Side External Static Pressure: IWC Supply-Side External Static Pressure:	IWC ficiency ne efficiency e building / HVAC nal Testing Must Correct		□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	
Return-Side External Static Pressure: IWC Supply-Side External Static Pressure:	IWC ficiency ne efficiency e building / HVAC nal Testing Must Correct		□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	0
Return-Side External Static Pressure: IWC Supply-Side External Static Pressure:	IWC ficiency ne efficiency e building / HVAC nal Testing Must Correct		□ □ □ □ □ Rater Verified ⁴	

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National Rater Field Checklist 1

Findlay Flats Russ Alley

ENERGY STAR Multifamily New Construction, Version 1 / 1 1 / 1 2 (Rev. 01)

	. 1 / 1.2	? (Rev.	. 01)	
5.10 Freeze protection systems, such as heat tracing of piping and heat exchangers, including self-regulating heat tracing, and garage / plenum heaters include automatic controls that are verified to shut off the systems when pipe wall or garage / plenum temperatures are above 40°F.	_			
5.10.1 Where heat tracing is installed for freeze-protection, controls must be based on pipe wall temperature and a minimum of R-3 pipe insulation is also required.				
5.11 Snow- and ice-melting systems include automatic controls that are verified to shut off the systems when the pavement temperature is above 50°F and no precipitation is falling, and an automatic or manual control is installed that is verified to shut off system when the outdoor temperature is above 40°F, so that the potential for snow or ice accumulation is negligible.	0		_	_
Hydronic Distribution				
5.12 For hydronic distribution systems, all terminal heating and cooling distribution equipment are separated from the riser or distribution loop by a control valve or terminal distribution pump, so that heated or cooled fluid is not delivered to the dwelling unit distribution equipment when there is no call from the thermostat.				
5.13 Terminal units in hydronic distribution systems are equipped with pressure independent balancing valves or pressure independent control valves.				
5.14 Piping of a heating or cooling system is insulated in accordance with Item 4.40 on the National HVAC Design Report, including where passing through planks or any other penetrations.				
5.15 For circulating pumps serving hydronic heating or cooling systems with three-phase motors, 1 horse-power or larger, motors meet or exceed efficiency standards for NEMA Premium™ motors. If 5 horse-power or larger, also installed with variable frequency drives.	_	_	_	-
 Duct Quality Installation - Applies to Heating, Cooling, Ventilation, Exhaust, & Pressure Balancing Dunless Noted in Footnote. 	Ducts,	Must Correct	Rater Verified ⁴	N/A
6.1 Ductwork installed without kinks, sharp bends, compressions, or excessive coiled flexible ductwork. 45				
6.2 Bedrooms with a design supply airflow ≥ 150 CFM (per Item 5.2 on the National HVAC Design Report) probal balanced (e.g., using transfer grilles, jump ducts, dedicated return ducts, undercut doors) to achieve a Rameasured pressure differential ≥ -5 Pa and ≤ +5 Pa with respect to the main body of the dwelling unit when handlers are operating. See Footnote 46 for test configuration.			_	
6.3 All supply and return ducts in unconditioned space, including connections to trunk ducts, are insulated to ≥	R-6. ⁴⁷			
6.3.1 Prescriptive Path: Dwelling unit ductwork meets the location and insulation requirements specified in the ENERGY STAR Multifamily Reference Design.			_	
6.4 Rater-measured total duct leakage in dwelling units meets one of the following two options: 48, 49				
6.4.1 Rough-in: Tested per allowances below, with air handler & all ducts, building cavities used as ducts, &	duct			
boots installed. In addition, <u>all</u> duct boots sealed to finished surface, Rater-verified at final. ⁵⁰ No ducted returns ³⁶ : The greater of ≤ 3 CFM25 per 100 sq. ft. of CFA or ≤ 30 CFM. Additionally, the R measured pressure difference between the space containing the air handler and the conditioned space air handler running at high speed, is ≤ 5 Pa. For systems > 1 ton, increase by 1 Pa per half ton. One or two ducted returns ³⁶ : The greater of ≤ 4 CFM25 per 100 sq. ft. of CFA or ≤ 40 CFM. Three or more ducted returns ³⁶ : The greater of ≤ 6 CFM25 per 100 sq. ft. of CFA or ≤ 60 CFM.		_		0
No ducted returns 36: The greater of ≤ 3 CFM25 per 100 sq. ft. of CFA or ≤ 30 CFM. Additionally, the R measured pressure difference between the space containing the air handler and the conditioned space air handler running at high speed, is ≤ 5 Pa. For systems > 1 ton, increase by 1 Pa per half ton. One or two ducted returns 36: The greater of ≤ 4 CFM25 per 100 sq. ft. of CFA or ≤ 40 CFM. Three or more ducted returns 36: The greater of ≤ 6 CFM25 per 100 sq. ft. of CFA or ≤ 60 CFM. 6.4.2 Final: Tested per allowances below, with the air handler & all ducts, building cavities used as ducts, due to a register grilles atop the finished surface (e.g., drywall, floor) installed. 51 No ducted returns 36: The greater of ≤ 6 CFM25 per 100 sq. ft. of CFA or ≤ 60 CFM. Additionally, the Resurred pressure difference between the space containing the air handler and the conditioned space air handler running at high speed, is ≤ 5 Pa. For systems > 1 ton, increase by 1 Pa per half ton. One or two ducted returns 36: The greater of ≤ 8 CFM25 per 100 sq. ft. of CFA or ≤ 80 CFM.	e, with the			
No ducted returns 36: The greater of ≤ 3 CFM25 per 100 sq. ft. of CFA or ≤ 30 CFM. Additionally, the R measured pressure difference between the space containing the air handler and the conditioned space air handler running at high speed, is ≤ 5 Pa. For systems > 1 ton, increase by 1 Pa per half ton. One or two ducted returns 36: The greater of ≤ 4 CFM25 per 100 sq. ft. of CFA or ≤ 40 CFM. Three or more ducted returns 36: The greater of ≤ 6 CFM25 per 100 sq. ft. of CFA or ≤ 60 CFM. 6.4.2 Final: Tested per allowances below, with the air handler & all ducts, building cavities used as ducts, due to the register grilles atop the finished surface (e.g., drywall, floor) installed. 51 No ducted returns 36: The greater of ≤ 6 CFM25 per 100 sq. ft. of CFA or ≤ 60 CFM. Additionally, the Reasured pressure difference between the space containing the air handler and the conditioned space air handler running at high speed, is ≤ 5 Pa. For systems > 1 ton, increase by 1 Pa per half ton.	e, with the act boots, later- e, with the			
No ducted returns 36: The greater of ≤ 3 CFM25 per 100 sq. ft. of CFA or ≤ 30 CFM. Additionally, the R measured pressure difference between the space containing the air handler and the conditioned space air handler running at high speed, is ≤ 5 Pa. For systems > 1 ton, increase by 1 Pa per half ton. One or two ducted returns 36: The greater of ≤ 4 CFM25 per 100 sq. ft. of CFA or ≤ 40 CFM. Three or more ducted returns 36: The greater of ≤ 6 CFM25 per 100 sq. ft. of CFA or ≤ 60 CFM. 6.4.2 Final: Tested per allowances below, with the air handler & all ducts, building cavities used as ducts, du & register grilles atop the finished surface (e.g., drywall, floor) installed. 51 No ducted returns 36: The greater of ≤ 6 CFM25 per 100 sq. ft. of CFA or ≤ 60 CFM. Additionally, the R measured pressure difference between the space containing the air handler and the conditioned space air handler running at high speed, is ≤ 5 Pa. For systems > 1 ton, increase by 1 Pa per half ton. One or two ducted returns 36: The greater of ≤ 8 CFM25 per 100 sq. ft. of CFA or ≤ 80 CFM. Three or more ducted returns 36: The greater of ≤ 12 CFM25 per 100 sq. ft. of CFA or ≤ 120 CFM.	e, with the act boots, later- e, with the	0		
No ducted returns 36: The greater of ≤ 3 CFM25 per 100 sq. ft. of CFA or ≤ 30 CFM. Additionally, the R measured pressure difference between the space containing the air handler and the conditioned space air handler running at high speed, is ≤ 5 Pa. For systems > 1 ton, increase by 1 Pa per half ton. One or two ducted returns 36: The greater of ≤ 4 CFM25 per 100 sq. ft. of CFA or ≤ 40 CFM. Three or more ducted returns 36: The greater of ≤ 6 CFM25 per 100 sq. ft. of CFA or ≤ 60 CFM. 6.4.2 Final: Tested per allowances below, with the air handler & all ducts, building cavities used as ducts, downward & register grilles atop the finished surface (e.g., drywall, floor) installed. 51 No ducted returns 36: The greater of ≤ 6 CFM25 per 100 sq. ft. of CFA or ≤ 60 CFM. Additionally, the Resourced pressure difference between the space containing the air handler and the conditioned space air handler running at high speed, is ≤ 5 Pa. For systems > 1 ton, increase by 1 Pa per half ton. One or two ducted returns 36: The greater of ≤ 8 CFM25 per 100 sq. ft. of CFA or ≤ 80 CFM. Three or more ducted returns 36: The greater of ≤ 12 CFM25 per 100 sq. ft. of CFA or ≤ 120 CFM. 6.5 Townhouses only: Rater-measured duct leakage to the outside the greater of ≤ 4 CFM25 per 100 sq. ft. of CFM25. 48, 52 6.6 Common Space: Supply, return, and exhaust ductwork and all plenums are sealed at all transverse joints,	e, with the ct boots, ater- e, with the CFA or ≤			0
No ducted returns 36: The greater of ≤ 3 CFM25 per 100 sq. ft. of CFA or ≤ 30 CFM. Additionally, the R measured pressure difference between the space containing the air handler and the conditioned space air handler running at high speed, is ≤ 5 Pa. For systems > 1 ton, increase by 1 Pa per half ton. One or two ducted returns 36: The greater of ≤ 4 CFM25 per 100 sq. ft. of CFA or ≤ 40 CFM. Three or more ducted returns 36: The greater of ≤ 6 CFM25 per 100 sq. ft. of CFA or ≤ 60 CFM. 6.4.2 Final: Tested per allowances below, with the air handler & all ducts, building cavities used as ducts, due to a k register grilles atop the finished surface (e.g., drywall, floor) installed. 51 No ducted returns 36: The greater of ≤ 6 CFM25 per 100 sq. ft. of CFA or ≤ 60 CFM. Additionally, the R measured pressure difference between the space containing the air handler and the conditioned space air handler running at high speed, is ≤ 5 Pa. For systems > 1 ton, increase by 1 Pa per half ton. One or two ducted returns 36: The greater of ≤ 8 CFM25 per 100 sq. ft. of CFA or ≤ 80 CFM. Three or more ducted returns 36: The greater of ≤ 12 CFM25 per 100 sq. ft. of CFA or ≤ 120 CFM. 6.5 Townhouses only: Rater-measured duct leakage to the outside the greater of ≤ 4 CFM25 per 100 sq. ft. of CFA or ≤ 120 CFM. 6.6 Common Space: Supply, return, and exhaust ductwork and all plenums are sealed at all transverse joints, longitudinal seams, and duct wall penetrations with mastic or mastic tape.	e, with the uct boots, ater- e, with the CFA or ≤ two option			

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EXP DATE 12.31.2023 Progress Dates 2023.04.28 - BID/PERMIT

Revisions

Design Team: CO, JK, MR, MR, RK, RO, SO, TB Drawn by: MR, AM

UBL

Job No: 22042 04/28/2023

EGC SPECIFICATIONS

National Rater Field Checklist

ENERGY STAR			ew Construction, Version 1 / 1.1 / 1.2	_		
		non Space Mechanical Ventilation Report Item # indicated in parenthesis)		Must Correct	Rater Verified ⁴	N/A 5
7.1 Ventilation n ☐ National F			ent matches either of the following (check box): 41 Iten approval received from designer			-
		ion rate is within either ± 15 CFM or ± by ASHRAE 62.2-2010. 54	15% of dwelling unit design values (2.7), and meets or		_	-
7.3 Measured ve	entilation rat	· ·	f common space design values (2.9), and meets or			-
7.4 Townhouses	only: A rea g., a label is	dily-accessible ventilation override cor	ntrol installed and also labeled if its function is not but not for a switch that's on the ventilation	_	0	0
7.5 No outdoor air intakes connected to return side of the dwelling unit HVAC system, unless controls are installed to operate intermittently & automatically based on a timer and to restrict intake when not in use (e.g., motorized damper).						-
7.6 If located in	6 If located in the dwelling unit, system fan rated ≤ 3 sones if intermittent, ≤ 2 sones if continuous, or exempted. ⁵⁶					-
7.7 If system util reduce the st		_	_			
	oom fans or		ied if used as part of the dwelling-unit mechanical		_	
			lling-unit mechanical ventilation system, then they are ey are installed with NEMA™ Premium Motors.		0	
7.10 Air inlet locations (Complete if ventilation air inlet locations were installed (2.22, 2.23); otherwise check "N/A"): 58, 59					-	
7.10.1 Inlet(s) pull ventilation air directly from outdoors and not from attic, crawlspace, garage, or adjacent dwelling unit.						-
7.10.2 Inlet(s) are ≥ 2 ft. above grade or roof deck; ≥ 10 ft. of stretched-string distance from known contamination sources not exiting the roof, and ≥ 3 ft. distance from dryer exhausts and sources exiting the roof. ⁶⁰						-
3. Local Mecha	anicai Exna	aust (National HVAC Design Report It	em # indicated in parenthesis)			
			en and bathroom, a system is installed that exhausts d facturer-rated sound level standards: ^{54, 61}	lirectly to	the outdoo	ors
Location		Continuous Rate	Intermittent Rate 62	Must Correct	Rater Verified ⁴	N/A 5
8.1 Kitchen	Airflow	≥ 5 ACH, based on kitchen volume ^{63, 64}	≥ 100 CFM and, if not integrated with range, also ≥ 5 ACH based on kitchen volume ^{63, 64, 65}	_	_	_
	Sound	Recommended: ≤ 1 sone	Recommended: ≤ 3 sones			
9.2 Dothroom	Airflow	≥ 20 CFM	≥ 50 CFM			
3.2 Bathroom	Sound	2 Bathroom				
Common Snac		Required: ≤ 2 sones	Recommended: ≤ 3 sones		0	-
- J Opal	e ² and Ga	Required: ≤ 2 sones urage Mechanical Exhaust	Recommended: ≤ 3 sones		_	-
		<u> </u>	Recommended: ≤ 3 sones			-
8.3 Measured ex	chaust rates	arage Mechanical Exhaust are ≥ ASHRAE 62.1 rates (2c). 55	Recommended: ≤ 3 sones uipped with controls that sense CO and NO2.			
8.3 Measured ex 8.4 Where a gar	chaust rates	arage Mechanical Exhaust are ≥ ASHRAE 62.1 rates (2c). 55				
8.3 Measured ex 8.4 Where a gar 9. Filtration 9.1 MERV 6+ fill	chaust rates age exhaus ter(s) installe	arage Mechanical Exhaust are ≥ ASHRAE 62.1 rates (2c). 55 t ventilation system is installed, it is eq	juipped with controls that sense CO and NO2. System, serving an individual dwelling unit located to			
8.3 Measured ex 8.4 Where a gar 9. Filtration 9.1 MERV 6+ fill facilitate acc	chaust rates age exhaus der(s) installe ess & regul	arage Mechanical Exhaust are ≥ ASHRAE 62.1 rates (2c). ⁵⁵ t ventilation system is installed, it is equenced in each dwelling unit ducted mechar service by the occupant or building	juipped with controls that sense CO and NO2. System, serving an individual dwelling unit located to			
8.3 Measured ex 8.4 Where a gar 9. Filtration 9.1 MERV 6+ fill facilitate acc 9.1.1 Filter ac bypass. 67	chaust rates age exhaus er(s) installe ess & regul cess panel	arage Mechanical Exhaust are ≥ ASHRAE 62.1 rates (2c). ⁵⁵ t ventilation system is installed, it is equenced in each dwelling unit ducted mechar service by the occupant or building	System, serving an individual dwelling unit located to owner. ⁶⁶ It the exposed edge of filter when closed to prevent			
8.3 Measured ex 8.4 Where a gar 9. Filtration 9.1 MERV 6+ fill facilitate acc 9.1.1 Filter ac bypass. ⁶⁷ 9.1.2 All retur	chaust rates age exhaus er(s) installe ess & regul cess panel	arage Mechanical Exhaust are ≥ ASHRAE 62.1 rates (2c). 55 t ventilation system is installed, it is equel in each dwelling unit ducted mechar service by the occupant or building includes gasket and fits snugly agains echanically supplied outdoor air passes	System, serving an individual dwelling unit located to owner. ⁶⁶ It the exposed edge of filter when closed to prevent	0		
8.3 Measured ex 8.4 Where a gar 9. Filtration 9.1 MERV 6+ fill facilitate acc 9.1.1 Filter acc bypass. 67 9.1.2 All retur 10. Combustic 10.1 Furnaces, I direct-venter manufactur	dender and medical series and/or control series and series are series and series and series and series and series and series	arage Mechanical Exhaust are ≥ ASHRAE 62.1 rates (2c). ⁵⁵ It ventilation system is installed, it is equed in each dwelling unit ducted mechar service by the occupant or building includes gasket and fits snugly against echanically supplied outdoor air passes ces water heaters located within the buildinically drafted, the minimum volume of the shall be met or exceeded and make	System, serving an individual dwelling unit located to owner. 66 t the exposed edge of filter when closed to prevent sthrough filter prior to conditioning. In the exposed edge of filter when closed to prevent sthrough filter prior to conditioning.	0		
8.3 Measured ex 8.4 Where a gar 9. Filtration 9.1 MERV 6+ filtration 9.1.1 Filter ac bypass. 67 9.1.2 All retur 10. Combustic 10.1 Furnaces, I direct-vente manufactur the combustic 10.0 Measurement 10.0 Measure	chaust rates age exhaus er(s) installe ess & regulacess panel in air and me on Appliance oilers, and ed. If mechaer and/or cottion appliance	arage Mechanical Exhaust are ≥ ASHRAE 62.1 rates (2c). 55 t ventilation system is installed, it is equenced in each dwelling unit ducted mechar service by the occupant or building includes gasket and fits snugly against	System, serving an individual dwelling unit located to owner. ⁶⁶ It the exposed edge of filter when closed to prevent as through filter prior to conditioning. Ing's pressure boundary are mechanically drafted or f combustion air required for safe operation by the e-up air sources must be mechanically closed when control to 70. ^{68, 69, 70}			
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18. Examples of durable covers include, but are not limited to, pre-fabricated covers with integral insulation, rigid foam adhered to cover with adhesive, or batt insulation mechanically fastened to the cover (e.g., using bolts, metal wire, or metal strapping. Low-slope roof hatch covers

19. Consistent with the 2009 IECC, slab edge insulation is only required for slab-on-grade floors with a floor surface less than 24 inches below

- grade. Slab-on-grade perimeter insulation shall extend to the top of the slab to provide a complete thermal break. If the top edge of the insulation is installed between the exterior wall and the edge of the interior slab, it shall be permitted to be cut at a 45-degree angle away from the exterior wall. Alternatively, the thermal break is permitted to be created using ≥ R-3 rigid insulation on top of an existing slab (e.g., in a building undergoing a gut rehabilitation). In such cases, up to 10% of the slab surface is permitted to not be insulated (e.g., for sleepers, for sill plates). Insulation installed on top of slab shall be covered by a durable floor surface (e.g., hardwood, tile, carpet).
- 20. Where an insulated wall separates a garage, patio, porch, or other unconditioned space from the conditioned space of the building, slab perimeter insulation shall also be installed at this interface to provide a thermal break between the conditioned and unconditioned slab, if the slab is in contact with the ground at that interface. Where specific details cannot meet this requirement, partners shall provide the detail to EPA to request an exemption prior to the building's certification. EPA will compile exempted details and work with industry to develop feasible details for use in future revisions to the program. A list of currently exempted details is available at: www.energystar.gov/slabedge.
- 21. For projected balconies, install a minimum of R-5 slab edge insulation to provide a thermal break between conditioned space and the unconditioned projected balcony slab. Alternatively, a UA calculation for the wall assembly that accounts for this uninsulated projected slab must be performed to demonstrate compliance with Item 1.2. For the purpose of this UA calculation, the area of the wall that is uninsulated due to the projected balcony is required to be calculated as 400% of that actual area. For example, for a projected balcony that is 20 feet wide, and has a thickness of 1 foot, the area to be used in the UA calculation is 80 ft² instead of 20 ft². The distance the balcony projects from the building is not used in this calculation.
- 22. Whether insulating from above or below the slab, thermal breaks must be accounted for when determining compliance with floor U-factors. Where structural columns cause a discontinuity in the installed floor insulation, the UA calculation for the floor assembly must account for this uninsulated area of the floor. For the purpose of this UA calculation, the area of the floor that is uninsulated due to the structural columns is required to be calculated as 400% of that actual area. For example, for a 4'x4' column, the area to be used in the UA calculation is 64 ft2 instead of 16 ft². The height of the column is not used in this calculation. Alternatively, if the structural column is insulated for a minimum of 4 vertical feet, the modification to the UA calculation is not required, and the U-value of the column insulation shall be associated with the uninsulated area of the floor due to the column
- 23. Item 3.7 is applicable to walls that are adjacent to other buildings or adjacent to unconditioned spaces within the building. Mass walls utilized as the thermal mass component of a passive solar design (e.g., a Trombe wall) are exempt from this Item. To be eligible for this exemption, the passive solar design shall be comprised of the following five components: an aperture or collector, an absorber, thermal mass, a distribution system, and a control system. For more information, see: www.energy.gov/sites/prod/files/guide_to_passive_solar_home_design.pdf.
- Mass walls that are not part of a passive solar design (e.g., CMU block or log home enclosure) shall either utilize the strategies outlined in Item 3.7 or the pathway in the assembly with the least thermal resistance, as determined using a method consistent with the 2013 ASHRAE Handbook of Fundamentals, shall provide ≥ 50% of the applicable assembly resistance, defined as the reciprocal of the mass wall equivalent U-factor in the 2009 IECC Table 502.1.2. Documentation identifying the pathway with the least thermal resistance and its resistance value shall be collected by the Rater and any Builder Verified or Rater Verified box under Item 3.7 shall be checked.
- 24. Up to 10% of the total exterior wall surface area is exempted from the reduced thermal bridging requirements to accommodate intentional designed details (e.g., architectural details such as thermal fins, wing walls, brick returns, stone window sills, metal panels, or masonry fireplaces; structural details, such as fasteners (e.g., shelf angles, metal clips, z-girts, brick ties), projected balconies, and service openings (e.g., PTACs or PTHPs), but not steel columns or wall area occupied by intermediate floors). It shall be apparent to the Rater that the exempted areas are intentional designed details or the exempted area shall be documented in a plan provided by the builder, architect, or engineer. The entire area of the wall area that is bypassed by the fastener must be used in the calculation. The Rater need not evaluate the necessity of the designed detail to certify the project.
- 25. If used, insulated siding shall be attached directly over a water-resistive barrier and sheathing. In addition, it shall provide the required Rvalue as demonstrated through either testing in accordance with ASTM C 1363 or by attaining the required R-value at its minimum thickness. Insulated sheathing rated for water protection can be used as a water resistant barrier if all seams are taped and sealed. If non-insulated structural sheathing is used at corners, the advanced framing details listed in Item 3.7.3 shall be met for those wall sections
- 26. Walls and rim / band joists using steel or other metal framing shall meet the reduced thermal bridging requirements by complying with Item 3.7.1 of the Checklist and may not demonstrate compliance using Item 3.7.2 or 3.7.3.
- 27. In a building undergoing a gut rehabilitation, continuous interior insulation may be used in lieu of continuous exterior rigid insulation or
- 28. Double-wall framing is defined as any framing method that ensures a continuous layer of insulation covering the studs to at least the R-value required in Item 3.7.1 of the Checklist, such as offset double-stud walls, aligned double-stud walls with continuous insulation between the adjacent stud faces, or single-stud walls with 2x2 or 2x3 cross-framing. In all cases, insulation shall fill the entire wall cavity from the interior to exterior sheathing except at windows, doors and other penetrations
- 29. Rim / band joists are exempt from this requirement. For the purpose of this requirement, "≤ 3 stories" refers to any portion of the building elevation where the wood-framed walls do not exceed 3 stories in height. Partial floors that meet the definition of a mezzanine or loft, as defined by the 2012 IRC, do not count as a story. All 'advanced framing' details shall be met except where the builder, architect, or engineer provides a framing plan that encompasses the details in question, indicating that structural members are required at these locations and including the rationale for these members (e.g., full-depth solid framing is required at wall corners or interior / exterior wall intersections for shear strength, a full-depth solid header is required above a window to transfer load to jacks studs, additional jack studs are required to support transferred loads, additional cripple studs are required to maintain on-center spacing, or stud spacing must be reduced to support multiple stories in a multifamily building). The Rater shall retain a copy of the detail and rationale for their records, but need not evaluate the rationale to certify the building.
- 30. All exterior corners shall be constructed to allow access for the installation of ≥ R-6 insulation that extends to the exterior wall sheathing. Examples of compliance options include standard-density insulation with alternative framing techniques, such as using three studs per corner, or high-density insulation (e.g., spray foam) with standard framing techniques. Page 7 of 12

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Other		Must Correct	LP Verified ⁴⁴	Rater Verified ⁴	N/A
11. Domestic Hot Water					
11.1 Prescriptive Path: Hot water equipment rated in EF ENERGY STAR Multifamily Reference Design. Boile		_	-	_	_
11.2 ERI: For hot water equipment serving common space rated in EF or UEF, meet the efficiency levels specif Design. Where rated in thermal efficiency, meet or e	ied in the ENERGY STAR Multifamily Reference	_	-	_	_
11.3 For in-unit storage water heaters, AHRI Certificate of	confirms the presence of a heat trap.		-		
11.4 DHW piping located in the dwelling unit is insulated with a minimum of R-3. 72					-
11.5 Rater-measured delivery temperatures at faucets a	nd showerheads do not exceed 125°F. 73		-		-
12. Lighting					
12.1 Common Space ² Lighting Controls:					
12.1.1 ERI and Prescriptive Path: All common spaces lobby and where automatic shutoff would endange or automatic bi-level lighting controls installed and	er the safety of occupants, have occupancy sensors				
occupancy sensors or automatic bi-level lighting of	stoff would endanger the safety of occupants, have controls installed and operation has been verified.		_		
12.2 Common Space ² Lighting Power Density Maximum	n (except garages): 74				
12.2.1 ERI and Prescriptive Path: Total installed lightin not exceed ASHRAE 90.1-2007 allowances for the Building Area Method. See Footnote 75 for allowa	ose combined spaces, using the Space-by-Space or	_	_		
12.2.2 ASHRAE path only: Total installed lighting power for the combined common spaces ² must not exceed ASHRAE 90.1-2007 allowances for those combined spaces, using the Space-by-Space or Building Area Method, by more than 20%. See Footnote 75 for allowances. ⁷⁵					
12.3 Shared garages: Lighting power density does not ex	xceed 0.24 W/ft ² .				
12.4 Exterior lighting controls: Fixtures, including parking lot fixtures, must include automatic switching on timers or photocell controls except fixtures intended for 24-hour operation, required for security, or located on dwelling unit balconies.					0
12.5 ERI Path: All exterior and common space lighting fix ENERGY STAR Multifamily Reference Design, exce			-		
12.6 Prescriptive Path: All lighting fixtures (i.e., dwelling efficiency requirements in the ENERGY STAR Multi	units, common spaces, and exterior) meet the family Reference Design. 76,77		-		
12.7 Prescriptive Path: Dwelling unit overall in-unit lightin overall lighting power density, use 1.1 W/ft² where lighting	ng power density ≤ 0.75 W/ft². When calculating ghting is not installed. ⁷⁴		-	_	
13. Appliances and Plumbing Fixtures			Must Correct	Rater Verified ⁴	N/A
13.1 Prescriptive Path: Installed appliances and plumbing criteria in the ENERGY STAR Multifamily Reference		the			
13.2 ERI Path: Installed appliances and plumbing fixtures the criteria in the ENERGY STAR Multifamily Refere	s in common spaces, and not included in the ERI modence Design. ⁷⁸	el, meet		0	
13.3 Prescriptive Path: Shower compartments with multipartate per shower compartment must not exceed 1.75		total flow		_	
14. Whole Building Energy Consumption Data Acc					
14.1 For buildings 50,000 ft ² and larger, a strategy that e consumption data (electricity, natural gas, chilled wate			_		
Rater Name:			Rater Init	tials:	
Rater Company Name:	_				
Rater Name:	Rater Final Inspection Date(s):		Rater Init	tials:	
Rater Company Name:					
Builder/Developer Employee:	Builder Inspection Date(s):		Builder Ir	nitials:	
Builder/Developer Name: Licensed Professional: LP Inspection Date(s): LP Initials:					

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- 31. Compliance options include continuous rigid insulation sheathing, SIP headers, other prefabricated insulated headers, single-member or two-member headers with insulation either in between or on one side, or an equivalent assembly. R-value requirement refers to
- 32. Insulation shall run behind interior / exterior wall intersections using ladder blocking, full length 2x6 or 1x6 furring behind the first partition stud, drywall clips, or other equivalent alternative
- 33. In Climate Zones 1 through 3, a continuous stucco cladding system sealed to windows and doors is permitted to be used in lieu of sealing rough openings with caulk or foam.
- 34. For dwelling or sleeping units adjacent to garages, EPA recommends, but does not require, carbon monoxide (CO) alarms installed in a central location in the immediate vicinity of each separate sleeping zone and according to NFPA 720. 35. Where a sampling protocol is permitted in accordance with the National or California Program Requirements, at least 20% of the dwelling or
- sleeping units adjacent to a garage shall be selected for testing. 36. A 'ducted return' is defined as a continuous duct made of sheet metal, duct board, or flexible duct that connects one or more return grilles to
- the return-side inlet of the air handler. Any other approach to convey air from return or transfer grille(s) to the air handler, such as the use of building cavities, does not constitute a 'ducted return' 37. This section of the Checklist is designed to meet the requirements of ASHRAE 62.1-2010 / 2013, ASHRAE 62.2-2010 / 2013, and ANSI / ACCA's 5 QI-2015 protocol, thereby improving the performance of HVAC equipment in new multifamily buildings when compared to multifamily buildings built to minimum code. However, these features alone cannot prevent all ventilation, indoor air quality, and HVAC
- problems, (e.g., those caused by a lack of maintenance or by occupant behavior). Therefore, this Checklist is not a guarantee of proper ventilation, indoor air quality, or HVAC performance. 38. Two paths are provided for satisfying the mandatory requirements for all certified buildings, Exhibit 2. Path A – Dwelling Unit HVAC Grading allows a Rater to utilize ANSI / RESNET / ACCA Std. 310 39, a standard for grading the installation of residential HVAC systems serving individual Dwelling Units and a Functional Testing Agent to verify common spaces and central systems. Path B – Functional Testing Agent utilizes a Functional Testing Agent for all systems. Either path may be selected, but all requirements within that path must be satisfied for
- the building to be certified 39. Path A – Dwelling Unit HVAC Grading shall not be used until an Effective Date has been defined by RESNET for ANSI / RESNET / ACCA Std. 310. Path A - Dwelling Unit HVAC Grading shall then use ANSI / RESNET / ACCA Std. 310 including all Addenda and Normative Appendices, with new versions and Addenda implemented according to the Effective Date and Transition Period End Date defined by RESNET. RESNET interpretations of Standard 310 shall also be followed. For units following path A, all unitary HVAC Systems including air
- conditioners and heat pumps up to 65 kBtuh and furnaces up to 125 kBtuh serving individual dwelling or sleeping units shall comply with 5a.1 through 5a.3 for the building to be certified. 40. If the non-invasive procedure in ANSI / RESNET / ACCA Std. 310 is not permitted to be used during the final inspection of a unit (i.e., due to the equipment type or to outdoor air temperatures that do not meet the requirements of the non-invasive method), then the unit is permitted to be certified with a default refrigerant charge designation of Grade III. Note that in these circumstances, the weigh-in method procedure in
- ANSI / RESNET / ACCA Std. 310 may still be used to pursue a Grade I designation. 41. If installed equipment does not match the National HVAC Design Report, then prior to certification the Rater shall obtain written approval from the designer (e.g., email, updated National HVAC Design Report) confirming that the installed equipment meets the requirements of the National HVAC Design Report. In cases where the condenser unit is installed after the time of inspection by the Rater, the HVAC manufacturer and model numbers on installed equipment can be documented through the use of photographs provided by the Functional
- 42. The Rater shall measure and record the external static pressure in the return-side and supply-side of the system using the contractorprovided test locations. However, at this time, the Rater need not assess whether these values are within a specific range to certify the
- 43. Functional Testing Agents must hold an approved credential, as listed at www.energystar.gov/ftas, or must be a representative of the Original Equipment Manufacturer (OEM), or a contractor credentialed by an HVAC Quality Installation Training and Oversight Organization (H-QUITO), if not completing Sections 6 and higher. Functional Testing Agents may not be the installing contractor unless they are a credentialed contractor. An explanation of the credentialing process and links to H-QUITOs, which maintain lists of credentialed contractors, can be found at www.energystar.gov/findhvac. A directory of other FT Agents can be found at www.energystar.gov/ftas. For Path A, a Functional Testing Agent is not needed to complete Sections 2 and 3 for unitary HVAC systems serving dwelling units that will be verified
- 44. At the discretion of the Rater, a Licensed Professional (LP), (i.e., a Registered Architect or Professional Engineer in good standing and with a current license), may verify any of the items in Sections 5, 11, and 12 of this Checklist, where a checkbox is provided for "LP Verified". When exercised, the LP's responsibility will be formally acknowledged by the LP signing off on the checklist for the item(s) that they verified. However, if a quality assurance review indicates that Items have not been successfully completed, the Rater will be responsible for facilitating
- 45. Kinks are to be avoided and are caused when ducts are bent across sharp corners such as framing members. Sharp bends are to be avoided and occur when the radius of the turn in the duct is less than one duct diameter. Compression is to be avoided and occurs when flexible ducts in unconditioned space are installed in cavities smaller than the outer duct diameter and ducts in conditioned space are installed in cavities smaller than inner duct diameter. Ducts shall not include coils or loops except to the extent needed for acoustical control.
- 46. Item 6.2 does not apply to ventilation ducts, exhaust ducts, or non-ducted systems. For an HVAC system with a multi-speed fan, the highest design fan speed shall be used when verifying this requirement. When verifying this requirement, doors separating bedrooms from the main body of the dwelling unit (e.g., a door between a bedroom and a hallway) shall be closed and doors to rooms that can only be entered from the bedroom (e.g., a closet, a bathroom) shall be open. The Rater-measured pressure shall be rounded to the nearest whole number to
- 47. Item 6.3 does not apply to ducts that are a part of local mechanical exhaust or exhaust-only dwelling-unit mechanical ventilation systems. EPA recommends, but does not require, that all metal ductwork not encompassed by Section 6 (e.g., exhaust ducts, duct boots, ducts in conditioned space) also be insulated and that insulation be sealed to duct boots to prevent condensation

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- 1. This Checklist applies to all dwelling units, sleeping units, common spaces ², and garages (open or enclosed) in the building being certified, and where specified, parking lots. These requirements do not apply to parking garages or lots where the cost of the energy use of the parking garage or lot is not the responsibility of the Builder/Developer, Building Owner or Property Manager. This Checklist does not apply to commercial or retail spaces. This Checklist does not apply to common spaces 2 that are located in buildings on the property without any dwelling or sleeping units. The term 'sleeping unit' refers to a room or space in which people sleep, which can also include permanent provisions for living, eating, and either sanitation or kitchen facilities but not both. Where the term 'dwelling unit' is used in this Checklist, the requirement is also required of 'sleeping' units. The term 'building' refers to a structure utilized or intended for supporting or sheltering occupancy for a residential purpose; a structure with no dwelling or sleeping units connected to a structure with dwelling or sleeping units by less than 10% of its exterior wall area is not to be included in the 'building'.
- 2. The term 'common space' refers to any spaces in the building being certified that serve a function in support of the residential part of the building that is not part of a dwelling or sleeping unit. This includes spaces used by residents, such as corridors, stairs, lobbies, laundry rooms, exercise rooms, residential recreation rooms, and dining halls, as well as offices and other spaces used by building management, administration or maintenance in support of the residents.
- 3. At the discretion of the Rater, the builder or developer may verify up to eight items in Sections 1-4 of this Checklist. For the purpose of this Checklist, "Builder" represents either the builder or the developer. When exercised, the builder's responsibility will be formally acknowledged by the builder, or their designated agent, signing off on the checklist for the item(s) that they verified. However, if a quality assurance review
- indicates that Items have not been successfully completed, the Rater will be responsible for facilitating corrective action. 4. The term 'Rater' refers to the person(s) completing the third-party verification required for certification. The person(s) shall: a) be a Certified Rater, Approved Inspector, or an equivalent designation as determined by a Verification Oversight Organization or Multifamily Review
- Organization and, b) have attended and successfully completed an EPA-recognized training class. See www.energystar.gov/mftraining. 5. The column titled "N/A," which denotes items that are "not applicable," should be used when the checklist Item is not present in the project or conflicts with local requirements. 6. Two alternatives are provided: a) Grade II cavity insulation is permitted to be used for assemblies that contain a layer of continuous, air
- impermeable insulation ≥ R-3 in Climate Zones 1 to 4, ≥ R-5 in Climate Zones 5 to 8; b) Grade II batts are permitted to be used in floors if they fill the full width and depth of the floor cavity, even when compression occurs due to excess insulation, as long as the R-value of the batts has been appropriately assessed based on manufacturer guidance and the only defect preventing the insulation from achieving Grade I is the compression caused by the excess insulation. 7. Ensure compliance with this requirement using ANSI / RESNET / ICC Std. 301 including all Addenda and Normative Appendices, with new
- versions and Addenda implemented according to the Effective Date and Transition Period End Date defined by RESNET. RESNET interpretations of Standard 301 shall also be followed. 8. Window-to-Wall ratio is taken as the sum of all window area divided by the total exterior above-grade wall area. All decorative glass and
- skylight window area contribute to the total window area to above-grade wall ratio (WWR). Spandrel sections of curtain wall systems contribute to the above-grade wall area.
- 9. Compliance with Items 1.5 and 1.6 is not required for ASHRAE projects, but the energy used by the heating systems must be modeled following the requirements in the Simulation Guidelines, available at www.energystar.gov/mfguidance. 10. The bottom of the plenum is permitted to be suspended ceiling tiles or other non-air barrier material. If fiberglass insulation is installed, it
- 11. For purposes of this Checklist, an air barrier is defined as any durable solid material that blocks air flow between conditioned space and unconditioned space, including necessary sealing to block excessive air flow at edges and seams and adequate support to resist positive and negative pressures without displacement or damage. EPA recommends, but does not require, rigid air barriers.
- Open-cell or closed-cell foam shall have a finished thickness ≥ 5.5 in. or 1.5 in., respectively, to qualify as an air barrier unless the manufacturer indicates otherwise If flexible air barriers such as house wrap are used, they shall be fully sealed at all seams and edges and supported using fasteners with caps or heads ≥ 1 in. diameter unless otherwise indicated by the manufacturer. Flexible air barriers shall not be made of kraft paper, paper-
- based products, or other materials that are easily torn. If polyethylene is used, its thickness shall be ≥ 6 mil. 12. All insulated ceiling surfaces, regardless of slope (e.g., cathedral ceilings, tray ceilings, conditioned attic roof decks, flat ceilings, sloped ceilings), must meet the requirements for ceilings, unless the ceiling is adiabatic.
- 13. All insulated vertical surfaces are considered walls (e.g., above and below grade exterior walls, knee walls) and must meet the air barrier requirements for walls. The following exceptions apply: air barriers recommended, but not required, in adiabatic walls; and, in Climate Zones 4 through 8, an air barrier at the interior vertical surface of insulation is recommended but not required in basement walls or crawlspace walls. For the purpose of these exceptions, a basement or crawlspace is a space for which ≥ 40% of the total gross wall area is below-grade.
- 14. EPA highly recommends, but does not require, an air barrier at the interior vertical surface of floor insulation in Climate Zones 4-8. 15. Examples of supports necessary for permanent contact include staves for batt insulation or netting for blown-in insulation. Alternatively, supports are not required if batts fill the full depth of the floor cavity, even when compression occurs due to excess insulation, as long as the R-value of the batts has been appropriately assessed based on manufacturer guidance and the only defect preventing the insulation from achieving the required installation grade is the compression caused by the excess insulation.
- 16. Alternatively, an air barrier is permitted to be installed at the exterior horizontal surface of the floor insulation if the insulation is installed in contact with this air barrier, the exterior vertical surfaces of the floor cavity are also insulated, and air barriers are included at the exterior vertical surfaces of this insulation 17. The minimum designated R-values must be achieved regardless of the trade-offs determined using an equivalent U-factor or UA alternative

calculation. Note that if the minimum designated values are used, then higher insulation values may be needed elsewhere to meet Item 1.2. Also, note that these requirements can be met by using any available strategy, such as a raised-heel truss, alternate framing that provides adequate space, and / or high-density insulation.

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- 48. Item 6.4 and 6.5 only apply to heating, cooling, and balanced ventilation ducts that only serve one dwelling unit. Duct leakage testing is not required if the ducts and air handler are in conditioned space and the total supply duct length of the system, including all supply trunks and branches, is ≤ 10 ft. Duct leakage shall be determined and documented by a Rater using ANSI / RESNET / ICC Std. 380 including all Addenda and Normative Appendices, with new versions and Addenda implemented according to the Effective Date and Transition Period End Date defined by RESNET. RESNET interpretations of Standard 380 shall also be followed. Leakage limits shall be assessed on a persystem, rather than per-dwelling unit, basis. For balanced ventilation ducts that are not connected to space heating or cooling systems, a Rater is permitted to visually verify, in lieu of duct leakage testing, that all seams and connections are sealed with mastic or metal tape and all duct boots are sealed to floor, wall, or ceiling using caulk, foam, or mastic tape.
- 49. Note that compliance with Item 6.4.1 or 6.4.2 in conjunction with Section 4a of the National Rater Design Review Checklist automatically achieves Grade I total duct leakage per ANSI / RESNET / ACCA Std. 310.
- 50. Cabinets (e.g., kitchen, bath, multimedia) or ducts that connect duct boots to toe-kick registers are not required to be in place during the
- 51. Registers atop carpets are permitted to be removed and the face of the duct boot temporarily sealed during testing. In such cases, the Rater shall visually verify that the boot has been durably sealed to the subfloor (e.g., using duct mastic or caulk) to prevent leakage during normal
- 52. Testing of duct leakage to the outdoors can be waived in accordance with the 2nd or 3rd alternative of ANSI / RESNET / ICC Std. 301, Table 4.2.2 (1), footnote (w). Alternatively, testing of duct leakage to outdoors can be waived in accordance with Section 5.5.2 of ANSI / RESNET / ICC Std. 380 if total duct leakage, at rough-in or final, is ≤ 4 CFM25 per 100 sg. ft. of conditioned floor area or 40 CFM25, whichever is larger. Guidance to assist partners with these alternatives, including modeling inputs, is available at www.energystar.gov/newhomesguidance.
- 53. For the purpose of computing leakage allowance, exhaust fan flow shall be the lesser of the rated fan flow and at rough-in, 133% of the sum of the design exhaust airflow of the dwelling units that are exhausted by that central fan or at final, 143% of the sum of the design exhaust airflow of the dwelling units that are exhausted by that central fan. Duct leakage shall be tested at the design or average operating pressure and shall use the procedures in the RESNET Guidelines for Multifamily Energy Ratings, available at www.resnet.us/blog/resnet-adoptsguidelines-for-multifamily-energy-ratings/. Where testing at the design or average operating pressure is not feasible, testing at 50 Pa is permitted, however the following flow equation must be used to determine the leakage allowance at 50 Pa.

 $CFM_{50} = CFM_{design} / [P_{design}^{(0.65)} / 50^{(0.65)}]$

No less than 50% of the ductwork, based on total linear feet, shall be tested and must include ductwork other than the main trunks. Where portions of ductwork are tested, rather than entire risers, the percentage of leakage allowed is based upon the design airflow of the dwelling units that are exhausted in that portion. Where failures occur, the percentage of total linear feet required to be tested increases by 10%. Where aerosol-based sealant is used on some but not all risers, the ductwork selected for testing must be representative of all sealing strategies used. This test is not required of central exhaust systems serving clothes dryers

- 54. The dwelling-unit ventilation air flow and local exhaust air flows shall be determined and documented by a Rater using ANSI / RESNET / ICC Std. 380 including all Addenda and Normative Appendices, with new versions and Addenda implemented according to the Effective Date and Transition Period End Date defined by RESNET. RESNET interpretations of Standard 380 shall also be followed. In Item 7.2, the dwelling-unit ventilation rates required by ASHRAE 62.2-2010 can be calculated using the Multifamily Workbook or the following equation: 0.01 x Conditioned Floor Area + 7.5 x (number of bedrooms + 1). Where local codes do not permit dwelling-unit ventilation to exceed ASHRAE 62.2-2010 rates, Rater-measured ventilation rate is permitted to be 0-15 CFM less than rates required by ASHRAE 62.2-2010.
- 55. While common spaces are not under the scope of ANSI / RESNET / ICC Std. 380, the ventilation air flow and exhaust air flows in common spaces shall be measured in accordance with the procedures in ANSI / RESNET / ICC Std. 380. The air flows may be measured by a Rater or a certified air-balancing contractor under the observation of a Rater. Where a system provides supply air that is a mix of return and outdoor air, and not 100% outdoor air, the outdoor air intake airflow shall be measured and compared to the total supply airflow to determine percentage of outdoor air supplied. This percentage shall be applied to airflow measured at supply registers to determine outdoor air provided for comparison to design airflow rates.
- 56. Dwelling-unit mechanical ventilation fans shall be rated for sound at no less than the airflow rate in Item 2.7 of the National HVAC Design Report. Fans exempted from this requirement include HVAC air handler fans, remote-mounted fans, and intermittent fans rated ≥ 400 CFM. To be considered for this exemption, a remote-mounted fan must be mounted outside the habitable spaces, bathrooms, toilets, and hallways and there shall be ≥ 4 ft. ductwork between the fan and intake grill. Per ASHRAE 62.2-2010, habitable spaces are intended for continual human occupancy; such space generally includes areas used for living, sleeping, dining, and cooking but does not generally include bathrooms, toilets, hallways, storage areas, closets, or utility rooms.
- 57. Bathroom fans with a rated flow rate ≥ 500 CFM are exempted from the requirement to be ENERGY STAR certified.
- 58. Ventilation air inlets that are only visible via rooftop access are exempted from Item 7.9 and the Rater shall mark "N/A". The outlet and inlet of balanced ventilation systems shall meet these spacing requirements unless manufacturer instructions indicate that a smaller distance may be used. However, if this occurs the manufacturer's instructions shall be collected for documentation purposes
- 59. Without proper maintenance, ventilation air inlet screens often become filled with debris. Therefore, EPA recommends, but does not require, that these ventilation air inlets be located so as to facilitate access and regular service by the building owner.
- 60. Known contamination sources include, but are not limited to, stacks, vents, exhausts, and vehicles.
- 61. Continuous bathroom local mechanical exhaust fans shall be rated for sound at no less than the airflow rate in Item 8.2. Intermittent bathroom and both intermittent and continuous kitchen local mechanical exhaust fans are recommended, but not required, to be rated for sound at no less than the airflow rate in Items 8.1 and 8.2. Per ASHRAE 62.2-2010, an exhaust system is one or more fans that remove air from the building, causing outdoor air to enter by ventilation inlets or normal leakage paths through the building envelope (e.g., bath exhaust fans, range hoods, clothes dryers). Per ASHRAE 62.2-2010, a bathroom is any room containing a bathtub, shower, spa, or similar source of
- 62. An intermittent mechanical exhaust system, where provided, shall be designed to operate as needed by the occupant. Control devices shall not impede occupant control in intermittent systems

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EXP DATE 12.31.2023 Progress Dates 2023.04.28 - BID/PERMIT

Revisions

CO, JK, MR, MR, RK, RO, SO, TB

Drawn by:

MR, AM

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- 63. Kitchen volume shall be determined by drawing the smallest possible rectangle on the floor plan that encompasses all cabinets, pantries, islands, peninsulas, ranges / ovens, and the kitchen exhaust fan, and multiplying by the average ceiling height for this area. In addition, the continuous kitchen exhaust rate shall be ≥ 25 CFM, per 2009 IRC Table M1507.3, regardless of the rate calculated using the kitchen volume. Cabinet volume shall be included in the kitchen volume.
- 64. Alternatively, the prescriptive duct sizing requirements in Table 5.3 of ASHRAE 62.2-2010 are permitted to be used for kitchen exhaust fans based upon the rated airflow of the fan at 0.25 lWC. If the rated airflow is unknown, ≥ 6 in. smooth duct shall be used, with a rectangular to round duct transition as needed. Guidance to assist partners with these alternatives is available at www.energystar.gov/newhomesguidance. As an alternative to Item 8.1, dwelling units are permitted to use a continuous kitchen exhaust rate of 25 CFM per 2009 IRC Table M1507.3, if they are either a) PHIUS+ or PHI certified, or b) provide both dwelling-unit ventilation and local mechanical kitchen exhaust using a balanced system, and have a Rater-verified whole-building infiltration rate ≤ 0.05 CFM50 per sq. ft. of Enclosure Area, and a Rater-verified dwelling unit compartmentalization rate ≤ 0.30 CFM50 per sq. ft. of Enclosure Area if multiple dwelling units are present in the building. 'Enclosure Area' is defined as the area of the surfaces that bound the volume being pressurized / depressurized during the test.
- 65. All intermittent kitchen exhaust fans must be capable of exhausting at least 100 CFM. In addition, if the fan is not part of a vented range hood or appliance-range hood combination (i.e., if the fan is not integrated with the range), then it must also be capable of exhausting ≥ 5 ACH, based on the kitchen volume.
- 66. Based upon, ASHRAE 62.2-2010, ducted mechanical systems are those that supply air to an occupiable space with a total amount of supply ductwork exceeding 10 ft. in length and through a thermal conditioning component, except for evaporative coolers. Systems that do not meet this definition are exempt from this requirement. While filters are recommended for mini-split systems, HRV's, and ERV's, these systems, ducted or not, typically do not have MERV-rated filters available for use and are, therefore, also exempted under this version of the requirements. HVAC filters located in the attic shall be considered accessible to the occupant or building owner if either 1) drop-down stairs provide access to attic and a permanently installed walkway has been provided between the attic access location and the filter or 2) the filter location enables arm-length access from a portable ladder without the need to step into the attic and the ceiling height where access is provided is ≤ 12 ft.
- 67. Sealing mechanisms comparable to a gasket are also permitted to be used. The filter media box (i.e., the component in the HVAC system that houses the filter) may be either site-fabricated by the installer or pre-fabricated by the manufacturer to meet this requirement. These requirements only apply when the filter is installed in a filter media box located in the HVAC system, not when the filter is installed flush
- 68. The pressure boundary is the primary enclosure boundary separating indoor and outdoor air. For example, a volume that has more leakage to outside than to conditioned space would be outside the pressure boundary.
- 69. Per the 2009 International Mechanical Code, a direct-vent appliance is one that is constructed and installed so that all air for combustion is derived from the outdoor atmosphere and all flue gases are discharged to the outside atmosphere; a mechanical draft system is a venting system designed to remove flue or vent gases by mechanical means consisting of an induced draft portion under non-positive static pressure or a forced draft portion under positive static pressure; and a natural draft system is a venting system designed to remove flue or vent gases under nonpositive static vent pressure entirely by natural draft.
- 70. Naturally drafted equipment is only allowed if located in a space outside the pressure boundary, where the envelope assemblies separating
- it from conditioned space are insulated and air-sealed. 71. Where water heater efficiency is rated in Uniform Energy Factor (UEF) rather than Energy Factor (EF), the EF may be calculated from the Uniform Energy Factor (UEF) using the RESNET EF Calculator 2017. The calculated EF must meet the efficiency levels specified in the ENERGY STAR Multifamily Reference Design.
- 72. In accordance with Section 7.4.3 of ASHRAE 90.1-2016, the following in-unit DHW piping requires insulation:
 - a. Recirculating system piping, including the supply and return piping of a circulating tank type water heater.
 - b. The first 8 feet of outlet piping of a constant-temperature nonrecirculating storage system. c. The first 8 feet of branch piping connecting to recirculated, heat-traced, or impedance heated piping.
 - d. The inlet piping between the storage tank and a heat trap in a nonrecirculating storage system.
 - e. Piping that is externally heated (such as heat trace or impedance heating).
- 73. To measure the delivery temperature, turn the hot water at a fixture completely on and place a digital thermometer in the stream of water. Observe the thermometer and when no additional rise in temperature occurs after 10 seconds, confirm this temperature does not exceed
- 74. Senior housing projects can use the space-by-space allowances for 'facilities for the visually impaired' in ASHRAE 90.1-2016 Appendix G Table G3.7 for spaces used primarily by building residents. For example, 1.15 W/SF lighting power allowance may be used for the corridors in the baseline. To qualify for the increased allowance, the project must be designed to comply with the light levels in ANSI / IES RP-28 and must provide housing for seniors and/or people with special visual needs. Prescriptive Path dwelling unit overall in-unit lighting power density is permitted to be ≤ 1.3 W/SF, using 1.65 W/SF where lighting is not installed.

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75. Lighting power density values from ASHRAE 90.1-2007 Section 9 for Space-by-Space Method for typical common spaces in multifamily properties are shown in the table below. Projects following the Building Area method, the lighting power density is 0.7 W/ft². For spaces not shown, refer to ASHRAE 90.1-2007 Section 9.

ASHRAE Space Type Lighting Power Densities (W/ft²)		ASHRAE Space Type	Lighting Power Densities (W/ft²)	ASHRAE Space Type	Lighting Power Densities (W/ft²)
Lobby / Elevator	1.3	Corridor / Transition	0.5	Office	1.1
Active Storage (e.g., trash chute / room, janitor closet)	0.8	Stairs - Active	0.6	Lounge / Recreation / Community Room / Computer Room	1.2
Inactive Storage (e.g., tenant storage)	0.3	Restroom	0.9	Electrical / Mechanical	1.5
Exercise Area / Room	0.9	Laundry Room	1.3	Workshop	1.9

- 76. This requirement applies to exterior lighting fixtures that are attached to the building, but does not apply to landscape or parking lot lighting
- 77. For Prescriptive Path dwelling units, ENERGY STAR certified fixtures or light bulbs are required; however, the Rater is only responsible for verifying that the installed lighting meets the Tier I or Tier II definition specified in ANSI / RESNET / ICC Std. 301. For locations outside the dwelling unit, as an alternative to ENERGY STAR certified fixtures or light bulbs, lighting that meets the Tier I or Tier II definition specified in ANSI / RESNET / ICC Std.301 is permitted.
- 78. Where an appliance type is not eligible for ENERGY STAR certification, (e.g., commercial dryers) the appliance is exempt from this requirement. Where a bathroom faucet or aerator is not eligible for WaterSense certification, (e.g., public use lavatory faucets) the fixture is exempt from this requirement.
- 79. Strategies include: an agreement with the utility companies to provide the aggregated building-level data, in a spreadsheet format or directly through Portfolio Manager; OR evidence that securing signed utility data release forms will be a mandatory component of all lease agreements; OR installation of a building-level energy monitor, data acquisition system, or utility-owned energy meter. If an energy monitor is installed, the builder shall provide the building operator with the manufacturer's documentation and operations manual. EPA recommends, but does not require, that one of these strategies also be implemented in buildings 25,000-49,999 ft².

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ENERGY STAR Multifamily New Construction Version 1 / 1.1 / 1.2 (Rev.01) Exhibit X – Prescriptive Minimum Heating and Cooling Equipment Efficiencies **Equipment Type** Minimum Efficiency **ENERGY STAR certified** Room AC (window, through-wall, ductless mini-splits) Air conditioners, air cooled (<13 KBtu/h) 13 SEER Air conditioners, air cooled (≥13 and <65 KBtu/h) See Reference Design Air conditioners, air cooled (≥65 and <240 KBtu/h) 11.5 EER/12.0 IEER 10.0 EER/10.5 IEER Air conditioners, air cooled (≥240 and < 760 KBtu/h) Electric resistance space heating Not permitted in any dwelling unit using the Prescriptive Path Electric resistance heating specified in common spaces has a total heating capacity ≤ 12 kBtu/h (3.5 kW) per enclosed space and has automatic thermostatic controls Warm-Air Furnace (<225 KBtu/h, common spaces) 78% AFUE or 80% Et Warm-Air Furnace (<225 KBtu/h, dwelling units) See Reference Design Warm-Air Furnace (≥225 KBtu/h) 80% Et (gas) or 81% Et (oil) Packaged Terminal Air Conditioner (PTAC) 13.8 - (0.300 X Cap/1000) EER Packaged Terminal Heat Pump (PTHP) Cooling: 14.0- (0.3 X Cap/1000) EER Heating: 3.7- (0.052 X Cap/1000) COP Air cooled heat pump (≥13 and <65 KBtu/h) See Reference Design Cooling: 11.1 EER/11.6 IEER Air cooled heat pump (≥65 and <240 KBtu/h) Heating: 3.3 COP (@47°F DB) Air cooled heat pump (≥240 KBtu/h) Cooling: 9.6 EER/9.6 IEER Heating: 3.2 COP (@47°F DB) Water-source heat pump (<135 KBtu/h) Cooling: 14.0 EER(86°F entering water) Heating: 4.2 COP(68°F entering water) Boilers, hot water (<300,000 Btu/h) See Reference Design 86% E_t (89% E_t if using heat pumps) Boilers, hot water (≥300,000 Btu/h) See Tables 6.8.1I and 6.8.1J of ASHRAE 90.1-2010 VRF Air Conditioners and Heat Pumps 10.0 EER / 12.5 IPLV Air-cooled chillers with or without condenser Water-cooled chiller, positive displacement (<75 tons) 0.780 kW/ton (Full load) / 0.630 kW/ton (IPLV) Water-cooled chiller, positive displacement (75-150 tons) 0.775 kW/ton (Full load) / 0.615 kW/ton (IPLV) Water-cooled chiller, positive displacement (150-300tons) 0.680 kW/ton (Full load) / 0.580 kW/ton (IPLV) 0.620 kW/ton (Full load) / 0.540 kW/ton (IPLV) Water-cooled chiller, positive displacement (>300 tons) Water-cooled, centrifugal (<300 tons) 0.634 kW/ton (Full load) / 0.596 kW/ton (IPLV) Water-cooled, centrifugal (≥300 and <600 tons) 0.576 kW/ton (Full load) / 0.549 kW/ton (IPLV) Water-cooled, centrifugal (≥600 tons) 0.570 kW/ton (Full load) / 0.539 kW/ton (IPLV) 0.6 COP Air-cooled absorption single effect chiller Water-cooled absorption single effect chiller 0.7 COP Absorption double effect indirect-fired chiller 1.0 COP (Full load) / 1.05 COP (IPLV) Absorption double effect direct-fired chiller 1.0 COP (Full load) / 1.00 COP (IPLV) Open-loop propeller or axial fan cooling towers* >40 gpm/hp (@95°F entering water, 85°F leaving water, 75°F wb entering air) Closed-loop propeller or axial fan cooling towers* >15 gpm/hp (@102°F entering water, 90°F leaving water, 75°F wb entering air) Open-loop centrifugal fan cooling towers* >22 gpm/hp (@95°F entering water, 85°F leaving water, 75°F wb entering air) Closed-loop centrifugal fan cooling towers* >8 gpm/hp (@102°F entering water, 90°F leaving water, 75°F wb entering air)

Cap means the rated capacity of the product in Btu/h. If < 7,000 Btu/h, use 7,000; if > 15,000, use 15,000 in calculation.

*Cooling tower fan motors must be equipped with VFD controlled by a temperature sensor on the condenser water supply pipe.

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EGC SPECIFICATIONS

MR, AM

CO, JK, MR, MR, RK, RO, SO, TB Drawn by:

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Job No: 22042 04/28/2023

GOVERNING CODE

OHIO BUILDING CODE - 2017, BASED ON 2015 IBC

CLASSIFICATION OF THE BUILDING STRUCTURE: RISK CATEGORY II, TABLE 1604.5

<u>DESIGN LOADS</u>

ROOF LOAD:

- A. MINIMUM LIVE LOAD OR SNOW LOAD: 20 PSF* B. DEAD LOAD = 20 PSF IN ADDITION TO STRUCTURE SELF WEIGHT
- *MINIMUM LIVE / SNOW LOAD GOVERNED BY MINIMUM SNOW LOAD, $P_m = I_s * P_g$

2. SNOW LOAD:

- A. GROUND SNOW LOAD, $P_g = 20 \text{ PSF}$.
- B. FLAT ROOF SNOW LOAD, Pf = 14 PSF MODIFIED BY APPLICABLE BUILDING COEFFICIENTS.
- C. MINIMUM ROOF SNOW LOAD, $P_m = 20 \text{ PSF}$.
- D. SNOW LOAD IMPORTANCE FACTOR, $I_s = 1.0$
- E. SNOW EXPOSURE FACTOR, C_e = 1.0 F. THERMAL FACTOR, $C_t = 1.0$
- G. COORDINATE ROOF FRAMING WITH FINAL SELECTION OF ROOF SUPPORTED MECHANICAL EQUIPMENT AND ASSOCIATED OPENINGS. ITEMS TO BE COORDINATED INCLUDE SIZE, LOCATION, TOTAL WEIGHT, WEIGHT DISTRIBUTION, AND SUPPORT FRAME REQUIREMENTS.

3. FLOOR LOAD:

- A. LIVE LOAD: 100 PSF
- B. LIVE LOAD = 40 PSF AT RESIDENTIAL
- C. DEAD LOAD ALLOWANCE: 20 PSF IN ADDITION TO STRUCTURE SELF WEIGHT

4. WIND LOAD:

- A. MAIN WIND FORCE RESISTING SYSTEM: 115 MPH PER ASCE 7-10 (3-SECOND GUST - LOAD AND RESISTANCE FACTOR DESIGN).
- B. WIND EXPOSURE: B C. BASIC WIND VELOCITY PRESSURE, q_h= 19.21 PSF (LRFD), 11.526 PSF
- D. INTERNAL GUST PRESSURE COEFFICIENT, GCp = 0.18 (ENCLOSED BUILDING).

5. SPECIAL LOADS:

- A. INTERIOR FINISH: 5 PSF HORIZONTAL LOAD.
- B. HANDRAILS: 200 POUND CONCENTRATED LOAD AT ANY POINT, IN ANY DIRECTION, OR 50 PLF UNIFORM LOAD IN ANY DIRECTION.
- C. GUARDRAILS:
- a. TOP RAIL: 200 POUNDS CONCENTRATED AT ANY POINT IN ANY DIRECTION, OR 50 PLF UNIFORM LOAD IN ANY DIRECTION.

SPECIAL INSPECTIONS

PER THE REQUIREMENTS OF CHAPTER 17, SECTION 1704.1, OF THE REFERENCED BUILDING CODE, SPECIAL INSPECTIONS ARE NOT NECESSARY FOR THE PROPOSED BUILDING CONSTRUCTION. STRUCTURAL CONSTRUCTION IN THIS BUILDING IS CONSIDERED MINOR NATURE AND IS ASSUMED TO BE INSPECTED BY THE BUILDING INSPECTOR. SPECIAL INSPECTIONS CAN BE ADDED TO THIS PROJECT AT THE REQUEST OF THE BUILDING DEPARTMENT. BUILDING DEPARTMENT, PLEASE IDENTIFY SPECIFIC MATERIALS THAT WILL REQUIRE SPECIAL INSPECTIONS.

b. IN-FILL AREAS: 50 POUNDS APPLIED OVER A 1 SQUARE FOOT AREA.

SUBSTITUTIONS, SUBMITTALS, AND RFI'S

- 1. CONTRACTOR SHALL SUBMIT ALL SUBSTITUTIONS FOR APPROVAL PRIOR TO CONSTRUCTION WITH THE FOLLOWING INFORMATION:
- A. THE SCOPE, EXTENT, AND ALL LOCATIONS AFFECTED BY THE PROPOSED SUBSTITUTION.
- B. SPECIFIC DRAWING OR SPECIFICATION REFERENCES FOR THE ORIGINAL PRODUCT OR SYSTEM SPECIFIED.
- C. THE REASON FOR THE PROPOSED CHANGE D. COST SAVINGS AND/OR IMPACT ON THE SCHEDULE
- E. IMPACT ON ANY GUARANTEES OR WARRANTIES ASSOCIATED WITH THE
- PRODUCT OR SYSTEM.
- F. COORDINATION REQUIRED WITH OTHER TRADES OR ADJACENT MATERIALS.
- G. ANY AND ALL DEVIATIONS FROM THE SPECIFIED REQUIREMENTS.
- 2. SHOP DRAWING SUBMITTALS SHALL BE SUBMITTED BY THE GENERAL CONTRACTOR IN A TIMELY MANNER TO PROVIDE AN ADEQUATE AMOUNT OF TIME FOR REVIEW.
- A. ALL SUBMITTALS MUST BE REVIEWED BY THE GENERAL CONTRACTOR PRIOR TO SUBMITTING FOR REVIEW. ANY SHOP DRAWINGS RECEIVED DO NOT BEAR THE STAMP OF THE GENERAL CONTRACTOR AS WELL AS CLEAR EVIDENCE THAT THE SUBMITTAL HAS BEEN REVIEWED WILL BE REJECTED WITHOUT REVIEW.
- B. REVIEW BY STRUCTURAL ENGINEER OF RECORD WILL BE FOR GENERAL COMPLIANCE WITH THE CONTRACT DOCUMENTS AND CONFORMANCE WITH THE DESIGN CONCEPT. THIS REVIEW DOES NOT IN ANYWAY RELIEVE THE CONTRACTOR AND/OR THE CONTRACTOR'S SUBCONTRACTORS FROM RESPONSIBILITY FOR ERRORS OR DEVIATIONS FROM THE CONTRACT REQUIREMENTS. THE CONTRACTOR IS RESPONSIBLE FOR ALL DIMENSIONS, PROPER FIT, QUALITIES OF THE MATERIALS, AND COORDINATION WITH OTHER TRADES AND SUPPLIERS.
- C. IF CHANGES ARE MADE TO A PREVIOUSLY REVIEWED SUBMITTAL, DENOTE ALL REVISED AREAS WITH REVISION CLOUD AND TAGS.
- D. STRUCTURAL SUBMITTAL REQUIREMENTS:

Submittal/Shop Drawing	Submittal	Calculations	PE/SE Seal & Signature				
Concrete Mix – Conforming to ACI 318	For Review	N/a	N/a				
Structural Steel	For Review	N/a	N/a				
Miscellaneous Steel	For Review	N/a	N/a				
- For Review denotes the contract	- For Review denotes the contractor must submit to the design team for review. The						

contractor shall not fabricate or install until all design team comments have been resolved in writina.

- For Record denotes the contractor must submit to the design team for record. The contractor's engineer is responsible for all loading and coordination of loads to be resisted by the building's structural elements. Any load resisted by the building's structural elements must be approved by the EOR. N/a denotes not applicable.

- REQUESTS FOR INFORMATION (RFI'S) SHALL BE SUBMITTED IN A TIMELY MANNER WHEN INFORMATION IS MISSING FROM THE CONSTRUCTION DOCUMENTS, INFORMATION IS CONFLICTING WITHIN THE CONSTRUCTION DOCUMENTS, OR IS AMBIGUOUS.
- A. THE CONTRACTOR MUST USE DUE DILIGENCE IN ATTEMPTING TO FIND ANY ANSWER PRIOR TO SUBMITTING AN RFI.
- B. IF THE INFORMATION REQUESTED IN AN RFI IS APPARENT FROM FIELD OBSERVATION, IS CONTAINED IN THE CONSTRUCTION DOCUMENTS, OR IS REASONABLY INFERABLE FROM THE CONSTRUCTION DOCUMENTS, THE CONTRACTOR SHALL BE RESPONSIBLE TO THE OWNER FOR ALL REASONABLE COSTS CHARGED RELATED TO ADDITIONAL SERVICES INCURRED DUE TO ANSWERING THE RFI.

CONSTRUCTION AND SAFETY

- 1. THE CONTRACTOR SHALL BRACE ENTIRE STRUCTURE AS REQUIRED TO MAINTAIN STABILITY UNTIL COMPLETE AND FUNCTIONING AS THE DESIGNED UNIT
- THE ENGINEER SHALL NOT BE RESPONSIBLE FOR THE MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES OF CONSTRUCTION SELECTED BY THE CONTRACTOR.
- 3. THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. WHEN ON SITE, THE ENGINEER IS RESPONSIBLE FOR HIS OWN SAFETY BUT HAS NO RESPONSIBILITY FOR THE SAFETY OF OTHER PERSONNEL OR SAFETY CONDITIONS AT THE SITE.
- 4. THE CONTRACTOR SHALL ONLY USE STRUCTURAL PLANS ISSUED AS "FOR CONSTRUCTION" OR ISSUES THEREAFTER. PRIOR ISSUES SHALL ONLY BE USED FOR PERMITTING OR BIDDING PURPOSES.
- 5. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS. SHOULD ANY DISCREPANCY BE FOUND, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER IMMEDIATELY OF THE CONDITION.
- 6. THE CONTRACTOR SHALL BRACE ENTIRE STRUCTURE AS REQUIRED DURING DEMOLITION AND CONSTRUCTION TO MAINTAIN STABILITY UNTIL THE STRUCTURE IS COMPLETE AND FUNCTIONING AS THE DESIGNED UNIT.
- 7. THE CONTRACTOR SHALL VERIFY ALL INFORMATION IN THESE DRAWINGS AND SHALL REPORT ANY ERRORS, OMISSIONS, OR DISCREPANCIES TO THE OWNER AND ENGINEER BEFORE PROCEEDING WITH THE WORK. THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR ANY DEPARTURES FROM THESE PLANS NOT APPROVED IN WRITING BY THE OWNER AND ENGINEER.
- 8. THE CONTRACTOR SHALL NOT REMOVE ANY ELEMENTS WHICH MAY CAUSE THE STRUCTURE TO BECOME UNSTABLE, OR THAT WILL POSE A RISK TO PERSONS OR PROPERTY, EVEN IF INDICATED IN PLANS. IF ANY ELEMENTS BECOME UNSTABLE, CONTRACTOR IS TO STABILIZE AND SHALL INFORM THE ENGINEER/OWNER IMMEDIATELY.
- 9. IT IS UP TO THE CONTRACTOR TO CONTINUALLY EVALUATE THE STRUCTURAL STABILITY OF THE BUILDING AND THE INTEGRITY OF ELEMENTS BOTH STRUCTURAL AND NON-STRUCTURAL THAT ARE SHOWN TO REMAIN. IF THE CONTRACTOR DETERMINES THAT SOME OF THESE ELEMENTS SHOULD BE REMOVED, HE/SHE MUST FIRST RECEIVE PERMISSION FROM THE ENGINEER/ OWNER, OR MAY BE FINANCIALLY RESPONSIBLE FOR THE REPLACEMENT OF THESE ELEMENTS.

MISCELLANEOUS STRUCTURAL NOTES

- THESE STRUCTURAL DRAWINGS DEPICT A STRUCTURAL SYSTEM AND THE MAJOR COMPONENTS OF THAT SYSTEM. MINOR ITEMS, INCLUDING BUT NOT LIMITED TO, POURSTOPS, DECK SUPPORT ANGLES, FRAMES AT FLOOR AND ROOF DECK OPENINGS, CFS AT ARCHITECTURAL FEATURES, ETC. SHALL BE SUPPLIED BY THE CONTRACTOR AS NEEDED TO PROVIDE A COMPLETE SYSTEM.
- 2. WHERE DETAILS ARE CALLED FOR IN ONE AREA OF THE BUILDING, THEY SHALL BE DUPLICATED AT SIMILAR CONDITIONS UNLESS NOTED OTHERWISE.
- 3. STRUCTURAL AND ARCHITECTURAL PLANS SHOW DIMENSIONS AND ELEVATIONS TO SIGNIFICANT WORKING POINTS. CONTRACTORS, DETAILERS AND SUPPLIERS ARE RESPONSIBLE FOR THE DETERMINATION OF ALL DIMENSIONS, PITCHES, ELEVATIONS, ETC. BEYOND THOSE NOTED AS NECESSARY TO THOROUGHLY DETAIL/FABRICATE THEIR WORK. CONTACT ARCHITECT WITH ANY DISCREPANCIES FOUND.

FOUNDATIONS

- 1. SOIL CONDITIONS:
- A. PER THE CLIENT'S REQUEST, THE FOUNDATION DESIGN AND GENERAL FOUNDATION NOTES ARE BASED ON THE ASSUMPTION OF FAVORABLE SOIL CONDITIONS.
- 2. THE BOTTOM OF FOUNDATION ELEVATION INDICATED ARE FOR BIDDING PURPOSES AND MAY BE LOWERED TO SUIT SUB-SURFACE SOIL CONDITION. BEARING STRATA SHALL BE APPROVED BY A GEOTECHNICAL ENGINEER PRIOR TO PLACING CONCRETE. PROVIDE ENGINEERED FILL OR FLOWABLE FILL CONCRETE (500 PSI) UNDER FOUNDATIONS AT SOFT SPOTS AND FOR EXTENDING EXCAVATION TO ADEQUATE BEARING MATERIAL. INSTALL FOUNDATIONS AT DESIGNED ELEVATIONS.
- 3. ALL FOOTINGS SHALL BEAR ON LEVEL (WITHIN 1 IN 12) UNDISTURBED SOIL OR APPROVED ENGINEERED FILL. FOUNDATIONS HAVE BEEN DESIGNED FOR A MAXIMUM SOIL BEARING PRESSURE OF 1500 PSF BELOW STRIP FOOTINGS AND 1500 PSF BELOW ISOLATED COLUMN FOOTINGS.
- 4. CONTRACTOR SHALL CONTACT UTILITY COMPANIES FOR LOCATING UNDERGROUND SERVICES AND IS RESPONSIBLE FOR THEIR PROTECTION AND SUPPORT.
- 5. COMPACTION:
- A. ALL FILL MATERIALS SHALL BE APPROVED BY A GEOTECHNICAL CONSULTANT
- B. ENGINEERED FILL BENEATH FOOTINGS: MINIMUM COMPACTION 98% STANDARD PROCTOR DENSITY AT THE OPTIMUM MOISTURE CONTENT.
- 6. FINISHED GRADE SHALL SLOPE AWAY FROM THE PERIMETER FOUNDATION.

CONCRETE

- 1. CONCRETE WORK AND TESTING SHALL CONFORM TO ALL REQUIREMENTS OF ACI 301. "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS", EXCEPT AS MODIFIED BY THE SUPPLEMENTAL REQUIREMENTS BELOW. REPORTS FROM TESTS REQUIRED BY SECTION 1.6 OF ACI 301 SHALL BE SUBMITTED TO STRUCTURAL ENGINEER, ARCHITECT, OWNER, CONTRACTOR, CONCRETE SUPPLIER, AND BUILDING OFFICIAL.
- CONCRETE WORK IN COLD WEATHER SHALL CONFORM TO ALL REQUIREMENTS OF ACI 306.1 "STANDARD SPECIFICATION FOR COLD WEATHER CONCRETING" AND ACI 306R "COLD WEATHER CONCRETING"

- 3. CONCRETE WORK IN HOT WEATHER SHALL CONFORM TO ALL REQUIREMENTS OF ACI 305R "HOT WEATHER CONCRETING". THE AIR TEMPERATURE, RELATIVE HUMIDITY, CONCRETE TEMPERATURE, AND WIND VELOCITY SHALL BE ENTERED INTO THE NOMOGRAPH OF THIS REFERENCE TO DETERMINE IF PRECAUTIONS AGAINST PLASTIC SHRINKAGE ARE
- 4. CONCRETE MIX DESIGNS SHALL BE SUBMITTED FOR EACH TYPE OF CONCRETE TO THE STRUCTURAL ENGINEER FOR APPROVAL IN ACCORDANCE WITH ACI 301 SECTION 4.2.3.4 FIELD TEST DATA OR TRIAL
- 5. SUBMIT SHOP DRAWINGS OF REINFORCING STEEL.
- 6. MATERIALS (ALSO SEE CONCRETE MIX SCHEDULE):
- A. REINFORCING STEEL: ASTM A615 OR ASTM 996 (AXLE ONLY) 60 KSI YIELD DEFORMED BARS AND ASTM A1064 MESH, FLAT SHEETS ONLY. B. FLY ASH: ASTM C618, TYPE F OR C. FLY ASH-TO-TOTAL CEMENTITIOUS
- RATIO SHALL NOT EXCEED 25% MAXIMUM. C. GROUND GRANULATED BLAST FURNACE SLAG: ASTM C989. TOTAL GROUND GRANULATED BLAST FURNACE SLAG-TO-TOTAL
- CEMENTITIOUS RATIO SHALL NOT EXCEED 50% MAXIMUM. HIGH RANGE WATER REDUCER (HRWR) ADMIXTURE: ASTM C494. E. CHLORIDE CONTENT OF CONCRETE: LIMIT TOTAL CHLORIDE ION CONTENT TO AMOUNT INDICATED IN TABLE 4.2.2.6 OF ACI 318.

ADMIXTURES CONTAINING CHLORIDE ARE NOT PERMITTED IN

REINFORCED CONCRETE OR CONCRETE CONTAINING METALS.

7. CONCRETE MIX SCHEDULE:

Application	f'c @ 28 days (psi)	Air Content ¹	Max w/c ratio ²	Max Agg. Size ¹ (in)	F Class	S Class	W Class	C Class
Footings	3000	N/a	0.55	3/4	F0	S0	W0	C0
Interior Floor Slab on Grade	4000	N/a	0.5	3/4	F0	S0	W0	C0
Exterior Flatwork (Plain Concrete)	4500	6% ± 1.5%	0.45	3/4	F3	S0	W1	C1

- 8. SLUMP SHALL BE MEASURED PRIOR TO THE ADDITION OF HRWR
- 9. LAP SPLICE REINFORCING BARS 48 BAR DIAMETERS UNLESS NOTED
- 10. BAR CLEARANCES BETWEEN ADJACENT BARS AND FORMWORK SHALL BE AS NOTED ON THE DRAWINGS OR A MINIMUM AS PER ACI REQUIREMENTS.

EXPANSION AND EPOXY ADHESIVE ANCHORS

- EXPANSION ANCHORS:
- A. EXPANSION ANCHORS SHALL BE MANUFACTURED BY THE HILTI COMPANY AND SHALL BE THE TYPE, SIZE, AND EMBEDMENT INDICATED ON THE DRAWINGS. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. SUBSTITUTES MAY BE CONSIDERED; SUBMIT MANUFACTURER'S DATA PRIOR TO INSTALLATION.
- 2. EPOXY ADHESIVE ANCHORS:
- B. EPOXY ADHESIVE SHALL BE MANUFACTURED BY THE HILTI COMPANY AND SHALL BE THE TYPE, SIZE, AND EMBEDMENT INDICATED ON THE DRAWINGS. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. SUBSTITUTES MAY BE CONSIDERED; SUBMIT MANUFACTURER'S DATA PRIOR TO INSTALLATION.
- A. THREADED RODS SHALL BE ASTM A36. SIZES AND EMBEDMENT AS INDICATED ON THE DRAWINGS.
- B. CONDUCT JOB-SITE TRAINING OF ALL CONTRACTOR'S PERSONNEL INSTALLING THIS PRODUCT FOR SAFE AND PROPER INSTALLATION, HANDLING, AND STORAGE OF THE EPOXY SYSTEM.

MASONRY WALL REPAIR

- 1. EXTERIOR MASONRY AND STONE IS TO BE REPAIRED, REPLACED, AND CLEANED AS NEEDED. CONTRACTOR SHALL PERFORM AN OBSERVATION OF ALL WALLS AND EXISTING LINTELS TO DETERMINE DAMAGED AREAS THAT
- 2. REPAIR DAMAGED JOINTS IN MASONRY WHERE MORTAR IS SOFT, DAMAGED, OR MISSING. CUT OUT JOINTS TO A DEPTH OF 2X THE WIDTH OF THE JOINT OR UNTIL SOUND MORTAR. REMOVE DUST AND LOOSE MATERIAL BY HAND BRUSHING. MORTAR TO MATCH EXISTING IN COMPOSITION, COLOR, TOOLING, PROFILE AND HARDNESS.
- 3. REPLACE MISSING, ERODED, SPALLED OR CRACKED MASONRY UNITS. CUT OUT UNITS, INCLUDING ENTIRE MORTAR JOINT AROUND MASONRY UNIT, REMOVE UNITS BY HAND USING CARE SO AS NOT TO DAMAGE ADJACENT MASONRY. TURN EXISTING BRICKS AROUND AND/OR USE SALVAGED BRICK IF POSSIBLE. BUILD-IN NEW MASONRY AND JOINTS TO MATCH EXISTING. ALIGN WITH EXISTING JOINTS AND COURSING TRUE AND LEVEL, FACES PLUMB AND IN-LINE. INSTALL ANY ANCHORS, FLASHING, OR REINFORCEMENTS AS NECESSARY, ALL NEW WORK SHALL MATCH THAT OF THE SURROUNDING MASONRY.
- 4. REMOVE CRACKED, DAMAGED AND SEVERELY SPALLED STONE LINTELS AND SILLS WITH CARE IN A MANNER TO PREVENT DAMAGE TO ADJACENT REMAINING MATERIALS. BUILD-IN NEW LINTELS AND SILLS. ALIGN WITH EXISTING JOINTS AND COURSING TRUE AND LEVEL, FACES PLUMB AND IN-LINE. INSTALL ANY ANCHORAGES, FLASHINGS, OR REINFORCEMENTS AS NECESSARY. WHERE APPLICABLE, NEW LINTELS AND SILLS TO BE PRECAST CONCRETE TO MATCH EXISTING IN COLOR AND TEXTURE. THE CONTRACTOR SHALL PROVIDE SAMPLES FOR APPROVAL PRIOR TO ORDERING MATERIAL. ALL STONE REPLACEMENT WORK WILL BE DONE WITHOUT DAMAGE, TO MATCH THE EXISTING HISTORIC STONE AND MASONRY.
- 5. NEW MASONRY CONSTRUCTION FOR WALLS NEEDING TO BE ENTIRELY REBUILT SHALL BE CONSISTED OF AN EXTERIOR WYTHE OF SIMILAR BRICK MATERIAL OF THE ERA. COMPOSITE CONSTRUCTION WITH AN INNER 4" WYTHE OR 8" WYTHE OF CONCRETE MASONRY, TO MATCH EXISTING WALL WIDTH. INTER-CONNECT W/ 9 GAUGE LADDER TYPE JOINT REINFORCING (GALVANIZED) @ 8" O.C. GROUT ALL COLLAR JOINTS SOLID WITH NO VOIDS.
- 6. SPIRA-LOK TIES ARE MANUFACTURED BY HOHMANN & BARNARD SHALL BE 8MM, 304 STAINLESS STEEL. INSTALL IN MORTAR JOINTS, LENGTH AS NEEDED SO END OF TIE WITH WITHIN 1" OF EXTERIOR AND INTERIOR FACE OF MASONRY. WHERE TIE IS INSTALLED INTO INTERIOR WOOD FRAMING, PENETRATE WOOD A MINIMUM OF 3". ALTERNATES WILL BE CONSIDERED UPON SUBMITTING MANUFACTURER INFORMATION.

<u>WOOD</u>

MATERIALS:

- A. FRAMING LUMBER:
- a. 2x8 AND LARGER: NO.1 GRADE OR BETTER SOUTHERN PINE KILN
- b. 2x4: STUD GRADE OR BETTER SPRUCE PINE FIR KILN DRIED.
- c. 2x6: NO.2 GRADE OR BETTER SPRUCE PINE FIR KILN DRIED. ACQ-C (ALT CA-B OR SBX-DOT) PRESSURE TREAT PIECES IN CONTACT WITH FOUNDATION OR EXPOSED TO WEATHER.
- 2. SHEATHING AND SUBFLOORING:
- A. 48/24 APA RATED TONGUE AND GROOVE SUBFLOOR EXPOSURE 1. B. 32/16 APA RATED ROOF SHEATHING EXPOSURE 1.
- C. 24/16 APA RATED STRUCTURAL WALL SHEATHING EXPOSURE 1. D. ALL SHEATHING TO BE NAILED WITH 8d NAILS AT 6" ON CENTER AT PANEL EDGES AND 12" ON CENTER AT INTERMEDIATE SUPPORTS
- UNLESS NOTED OTHERWISE. E. ROOF AND WALL SHEATHING SHALL BE SPACED A MINIMUM 1/8" AT PANEL EDGES AND ENDS OF SHEETS. USE APPROPRIATE PLYWOOD
- CLIPS AS RECOMMENDED BY THE APA. F. ALL PLYWOOD SUBFLOORING SHALL BE GLUED AND NAILED.
- 3. NAIL SIZES AS CALLED OUT IN THE STRUCTURAL DRAWINGS AND FOR SIMPSON CONNECTORS ARE LISTED BELOW. NAIL GUN NAILS SHALL MEET DIAMETER AND LENGTH OF NAILS LISTED BELOW, OR ELSE NAILS SHALL BE DRIVEN WITH A HAMMER.
- A. 6d NAILS ARE 0.120"Ø x 1¾" LONG (MIN 3/8" HEAD)
- B. 8d NAILS ARE 0.131"Ø x 21/2" LONG
- C. 10d NAILS ARE 0.148"Ø x 3" LONG D. 16d NAILS ARE 0.162"Ø x 3½" LONG
- 4. SIMPSON HANGERS:
- A. ALWAYS USE THE NAIL OR FASTENER AS SPECIFIED BY SIMPSON,
- INCLUDING THE CORRECT DIAMETER AND LENGTH. B. WHEN FASTENING TO A SINGLE PLY 11/2" OR 13/4" MEMBER, 11/2" FLANGE NAILS ARE ACCEPTABLE. USE FULL LENGTH NAILS FOR DIAGONAL NAILS OF DOUBLE SHEAR HANGERS.
- 5. ADHESIVE FOR PLYWOOD SUBFLOORING SHALL CONFORM TO PERFORMANCE SPECIFICATION AFG-01 DEVELOPED BY APA.
- 6. UNLESS NOTED OTHERWISE, CONNECTORS SHALL BE MADE PER TABLE 2304.10.1, "RECOMMENDED FASTENING SCHEDULE", IN REFERENCED BUILDING CODE. STAPLES NOT PERMITTED FOR FASTENING APA RATED SHEATHING AND SUBFLOORING.
- 7. ALL PLYWOOD SUBFLOORING SHALL BE GLUED AND NAILED.
- 8. ALL CONNECTION HARDWARE SPECIFIED ON THE STRUCTURAL DRAWINGS SHALL BE MANUFACTURED BY THE SIMPSON STRONG-TIE COMPANY AND SHALL BE FASTENED AS SPECIFIED IN THE SIMPSON PRODUCT AND INSTRUCTION MANUAL.

advantage 1527 Madison Road

Cincinnati, OH 45206

www.advantageSE.com

513 396 8900

JENKINS

Design Team: KCJ / SJ Date: 04/28/2023

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roj. No.:

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STRUCTURAL INFORMATION NOTED IS BASED ON ASSUMPTIONS OF CONDITION OF EXISTING FRAMING & FRAMING HIDDEN FROM VISUAL OBSERVATION. DETAILS OF PROPOSED FRAMING MODIFICATION/REPAIRS ARE SUBJECT TO CHANGE ONCE DEMOLITION IS UNDERWAY

Design Team: KCJ / SJ Date: 04/28/2023

B

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advantage STRUCTURAL ENGINEERS 1527 Madison Road Cincinnati, OH 45206 513 396 8900 www.advantageSE.com

PROJECT KEYNOTES:

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⟨ 2 ⟩ REMOVE EXISTING DOUBLE JOIST AND PROIVDE NEW (2) 2x12 JOIST.

REMOVE EXISTING HEADER. CUT BACK JOIST APPROXIMATELY 1', TO UN-ROTTED SECTION. PROVIDE NEW (2) 2x12 HEADER w/ LUS210-2 HANGER EACH END. HANG EXISTING JOISTS TO HEADER w/ LUS210R-18 HANGERS.

REMOVE EXISTING INFILL AND PROVIDE NEW 2x12 JOISTS AT 16" o.c. w/ LUS28 HANGERS EACH END.

NEW PRE-ENGINEERED WOOD STAIR, COORD WITH ARCH.

 \langle 6 angle REMOVE EXISTING WOOD BEAMS AND WALL. PROVIDE NEW 2x4 BEARING WALL, SUPPORTED BY EXISTING SLAB.

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(8) NEW 2x8 JOISTS AT 16" o.c. (9) NEW 2x12 SISTER EACH EX JOIST. BEAR ON WOOD BEAM EACH END.

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2x12 SISTER, ENDS WITHIN 4" OF WALL EACH END. FASTEN w/ (3) SWS EACH END, AND PER PLAN NOTES.

412 HANG EX HEADER TO NEW BEAMS w/ LUS48 HANGERS EACH END.

(13) EXISTING WOOD WALL BEARS STAIRS AND LANDING. SISTER DETERIOATED JOISTS WITH NEW 2x4 FULL HEIGHT.

 \langle 14 \rangle EXISTING LEDGER. FASTEN TO EACH STUD AND NEW SISTERED STUDS w/ (2) SWS. REPAIR INTERIOR LINTEL BEARING, REPLACED CRACKED MASONRY. REMOVE WOOD FROM JAMB AND REPLACE WITH NEW MASONRY.

EXISTING HEARTH WOOD INFILL. PROVIDE ADDITIONAL 2x6 JOISTS w/ LUS24 EACH END, CENTERED IN INFILL. REMOVE EXISTING INFILL SHEATHING AND PROVIDE NEW APA RATED SHEATHING.

 \langle 17 \rangle EXISTING SINGLE HEADER CONNECTED TO FLOOR BEAM. ADD SIMPSON L70 ANGLE EACH END. EXISTING FIRE ESCAPE. EVALUATION IS NOT PART OF SCOPE. IF NOT PREVIOUSLY COMPLETED; INSPECTION AND

 REPAIR DOCUMENTS SHALL BE PREPARED BY A DESIGN PROFESSIONAL HIRED BY OWNER, SUBMITTED UNDER THE CITY OF CINCINNATI FIRE ESCAPE INSPECTION PROGRAM. NEW 1-3/4"x11-1/4" LVL SISTER, END WITHIN 4" OF WALL EACH END. PROVIDE (3) SWS EACH END, AND PER PLAN

20 PROVIDE NEW 1-3/4"x7-1/4" SISTER TO EXISTING HEADER. HANG TO DOUBLE JOIST EACH END w/ LUS46 HANGERS.

CUT EX JOISTS FOR NEW HEADER. ADD NE EXTEND TO WITHIN 4" OF MASONRY WALL. CUT EX JOISTS FOR NEW HEADER. ADD NEW 2x8 SISTER AND HANG TO HEADER w/ LUS46 HANGER. SISTER SHALL

 $\langle 22
angle$ GROUT EXISTING CHIMNEY VOIDS AND FLUES AT FLOOR LEVEL AND 12" BELOW FLOOR.

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REMOVE EXISTING DEPRESSED SIDEWALK SLAB AND INVESTIGATE SOIL BELOW. REMOVE LOOSE SOIL AND FILL WITH CDF. REPLACE SIDEWALK WITH NEW 4" CONCRETE SLAB.

ig<27ig> REMOVE INTERIOR WOOD LINTEL AND REPLACE PER TYPICAL DETAIL.

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30 REPLACE ROTTED OUTRIGGERS AT GUTTER SUPPORT WITH 2x WITH DEPTH TO MATCH.

PLAN NOTES:

1. COORDINATE ALL DIMENSIONS, DOOR AND WINDOW LOCATIONS WITH ARCHITECTURAL DRAWINGS.

2. REMOVE DAMAGED OR SATURATED SHEATHING AND REPLACE WITH NEW APA RATED SHEATHING. REPLACE DAMAGED,

3. LUMBER AT 1ST FLOOR AND BASEMENT SHALL BE PRESSURE TREATED.

SATURATED OR DETERIORATED JOISTS WITH NEW JOISTS OF THE SAME SIZE.

4. WOOD LINTELS AT OPENINGS IN MASONRY WALLS WHERE ROTTED SHALL BE REPLACED WITH A STEEL HSS4x4x3/8 (GALVANIZED) LINTEL AT EACH 4" WYTHE. ALTERNATIVELY USE A 4"x8" PRECAST CONCRETE LINTEL WITH #5 TOP AND BOTTOM EACH 4" WYTHE, OR AN L4x3-1/2x5/16" LINTEL LLV, EACH WYTHE.

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6. REPAIR AND TUCKPOINT INTERIOR MASONRY PER THE GENERAL NOTES.

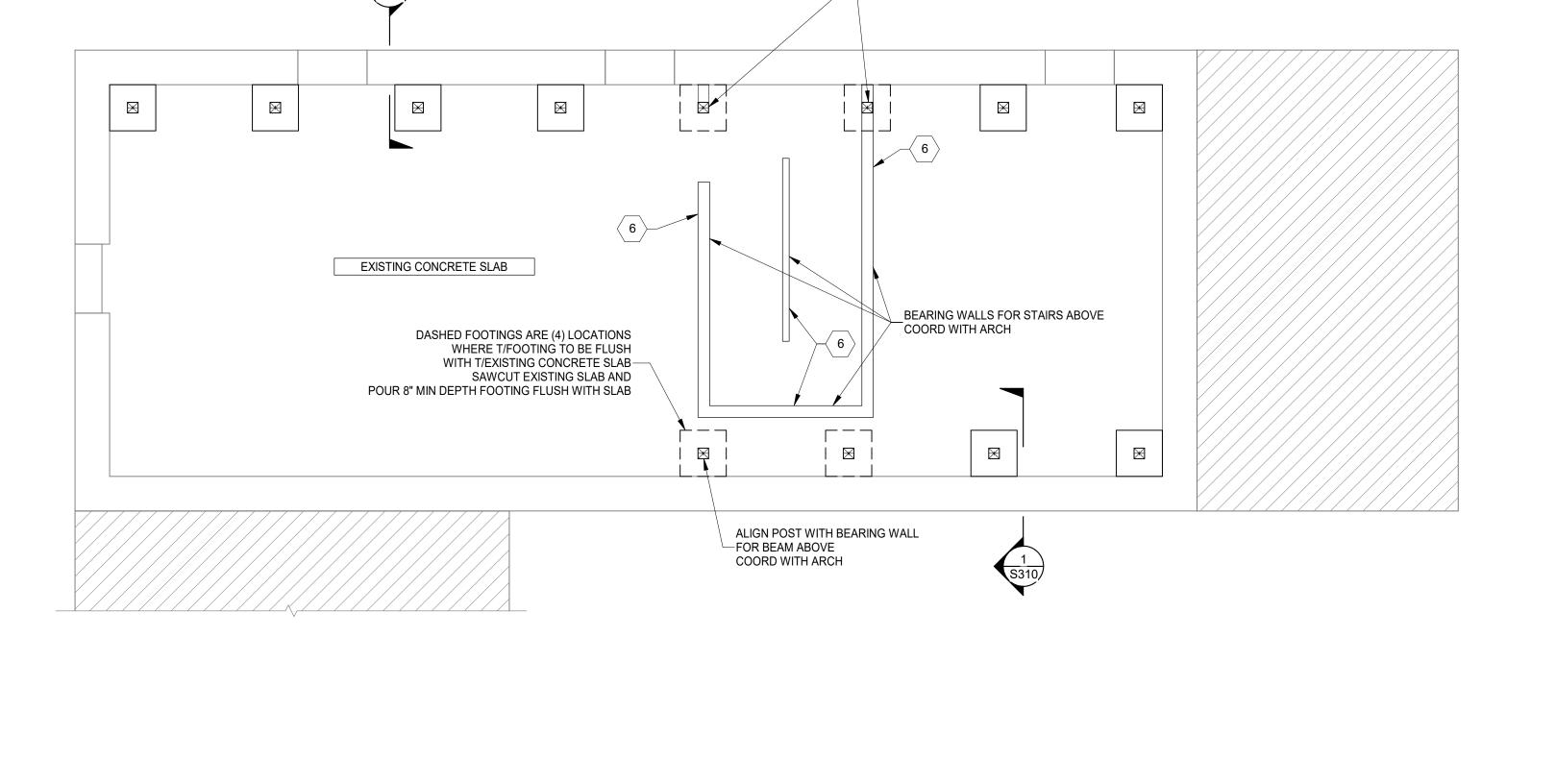
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8. SWS = STRUCTURAL WOOD SCREW. ALLOWABLE SCREWS ARE 1/4" SIMPSON SDS, 1/4" SPAX POWERLAGS OR 1/4"

FASTEN MASTER LEDGER LOK.

9. FASTEN SISTERS WITH 1/4"x3" SWS @ 24"o.c. STAGGERED UNLESS NOTED OTHERWISE. 10. WOOD DETERIORATION INDICATES TERMITE DAMAGE. CONSULT A TERMITE CONTROL SPECIALIST AND TREAT THE

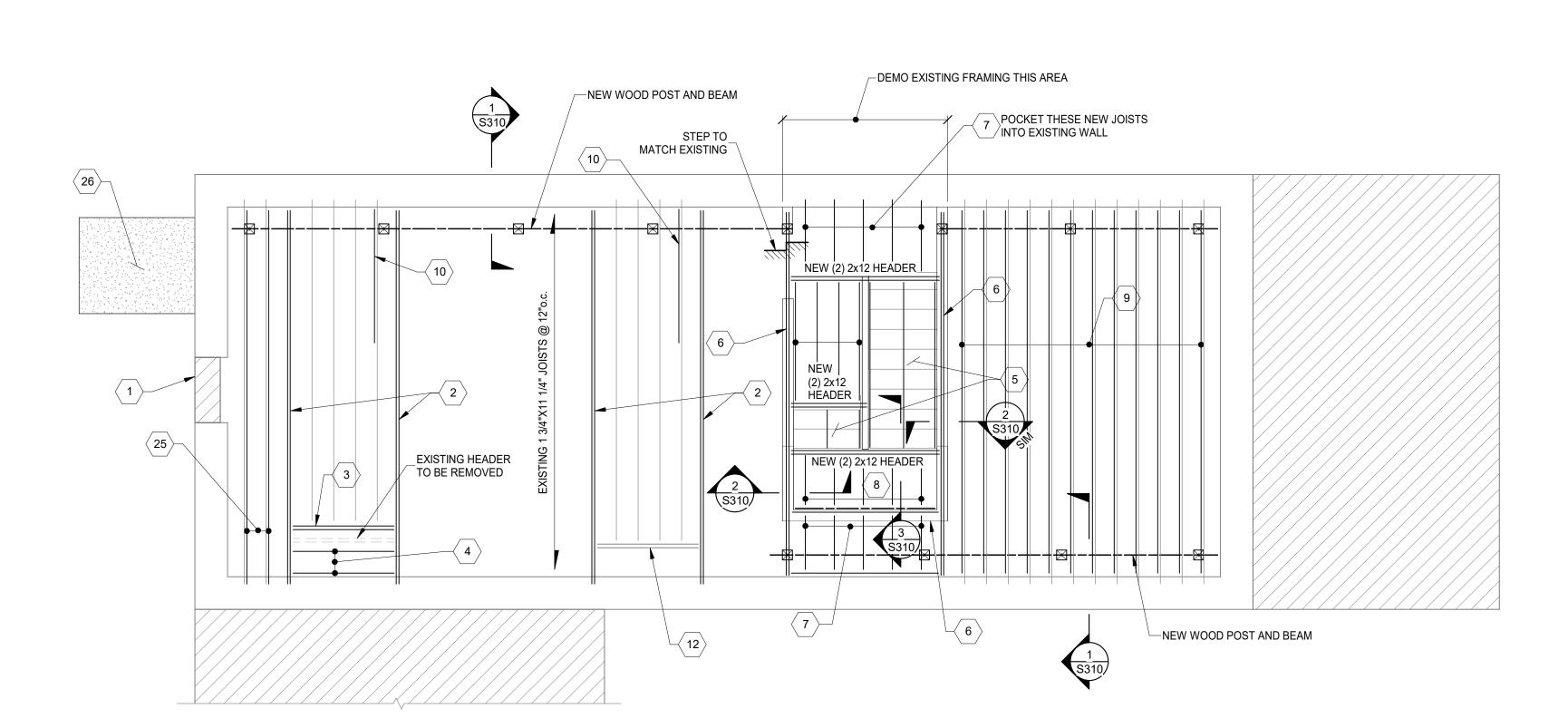
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SCALE 1/4" = 1'-0"

ALIGN POSTS WITH BEARING WALLS

COORD WITH ARCH



1ST FLOOR FRAMING PLAN

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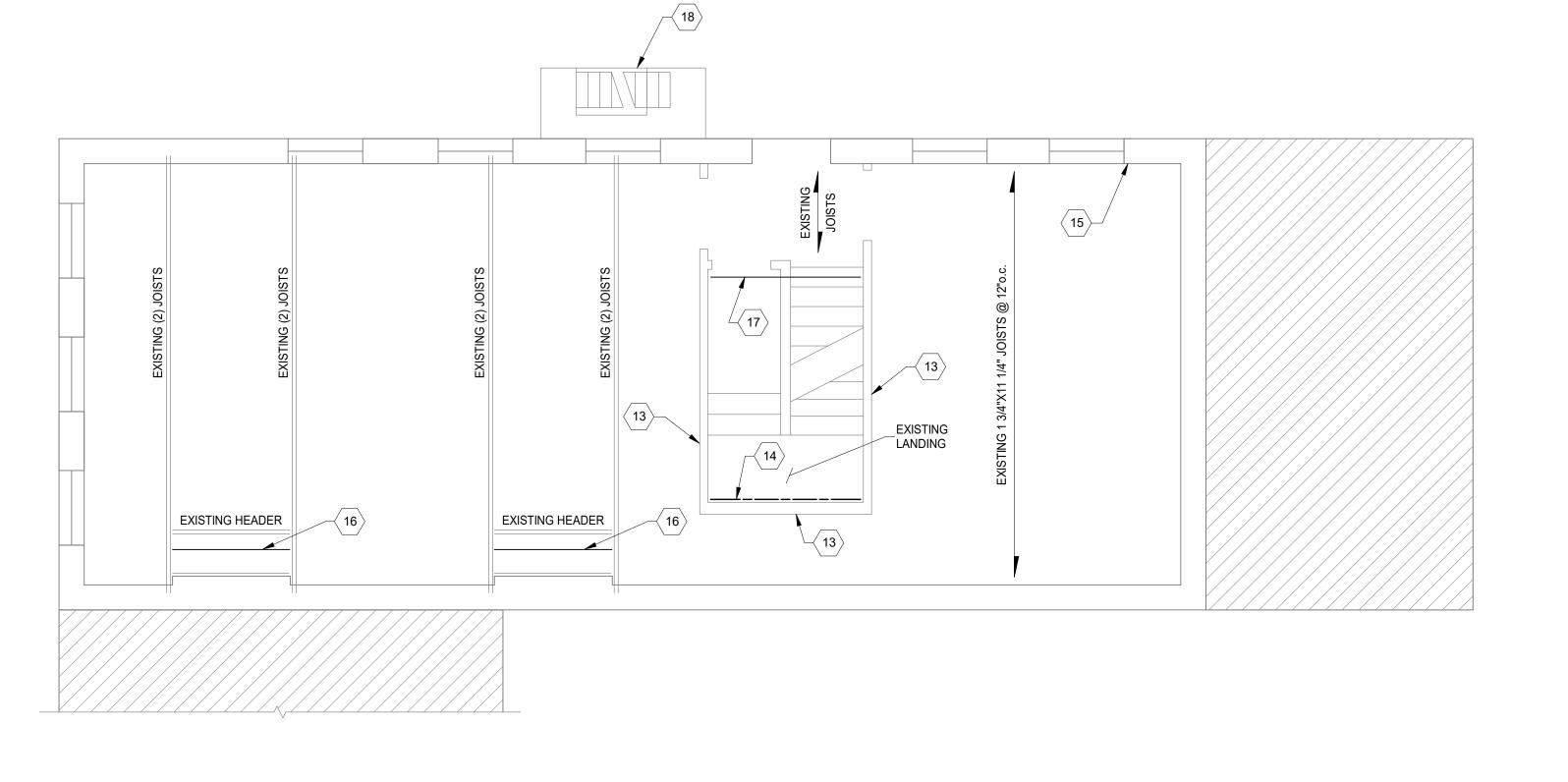
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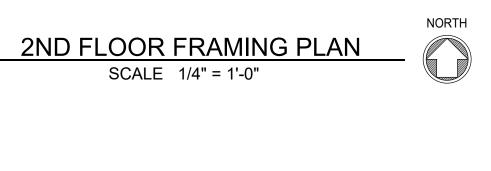
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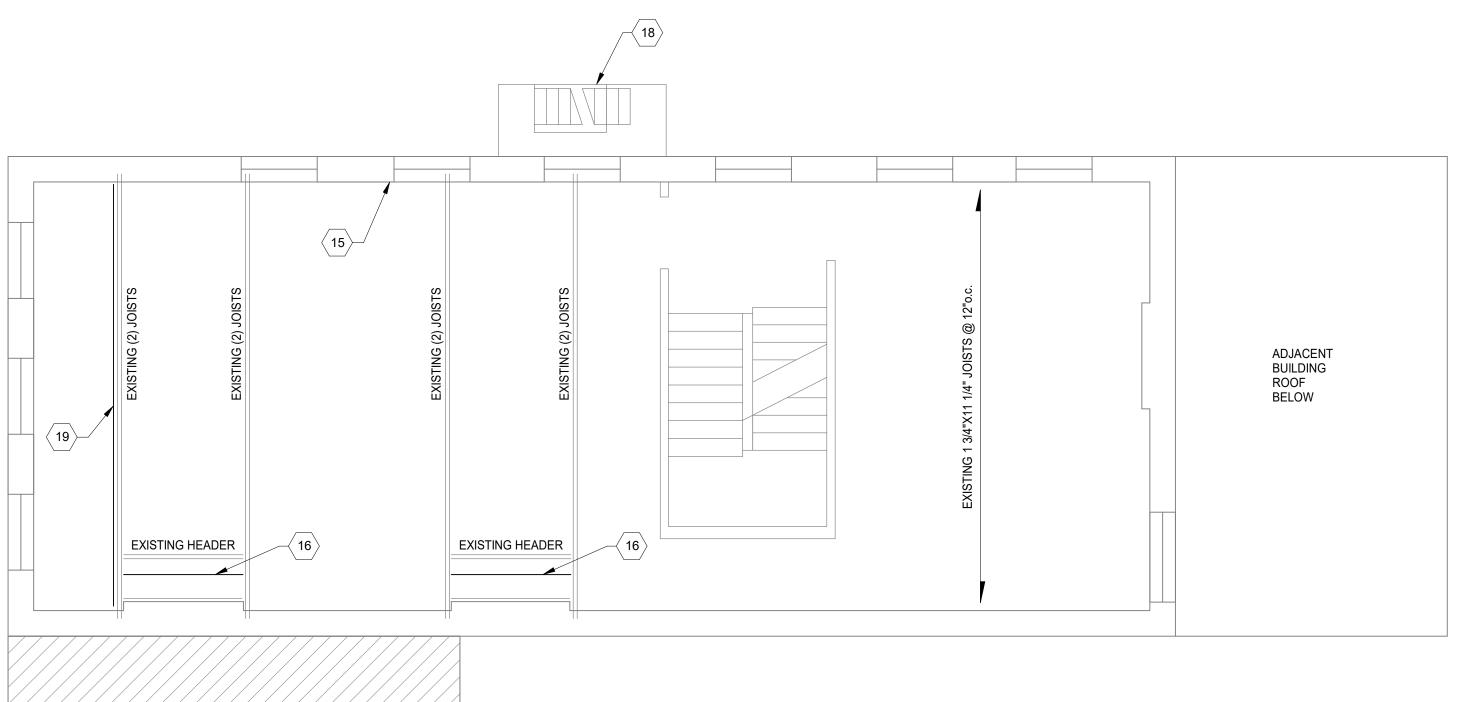
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REPUBLIC

Date: 04/28/2023

advantage STRUCTURAL ENGINEERS

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www.advantageSE.com

513 396 8900

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EXISTING FIRE ESCAPE. EVALUATION IS NOT PART OF SCOPE. IF NOT PREVIOUSLY COMPLETED; INSPECTION AND \langle 18 \rangle REPAIR DOCUMENTS SHALL BE PREPARED BY A DESIGN PROFESSIONAL HIRED BY OWNER, SUBMITTED UNDER THE CITY OF CINCINNATI FIRE ESCAPE INSPECTION PROGRAM.

NEW 1-3/4"x11-1/4" LVL SISTER, END WITHIN 4" OF WALL EACH END. PROVIDE (3) SWS EACH END, AND PER PLAN

20 PROVIDE NEW 1-3/4"x7-1/4" SISTER TO EXISTING HEADER. HANG TO DOUBLE JOIST EACH END w/ LUS46 HANGERS. CUT EX JOISTS FOR NEW HEADER. ADD NE EXTEND TO WITHIN 4" OF MASONRY WALL. CUT EX JOISTS FOR NEW HEADER. ADD NEW 2x8 SISTER AND HANG TO HEADER w/ LUS46 HANGER. SISTER SHALL

 \langle 22 \rangle GROUT EXISTING CHIMNEY VOIDS AND FLUES AT FLOOR LEVEL AND 12" BELOW FLOOR.

NEW 2x12 SISTER w/ (4) SWS EACH END AND PER PLAN NOTES. NORTH END OF SISTER SHALL BE WITHIN 4" OF MASONRY WALL.

NEW (2) 2x10 HEADER w/ LUS28-2 HANGERS EACH END. CUT EXISTING JOISTS AND HANG TO HEADER w/ LUS28R-18 HANGERS.

25 NEW 2x12 SISTER. BEAR ON SOUTH MASONRY WALL AND NEW WOOD BEAM.

REMOVE EXISTING DEPRESSED SIDEWALK SLAB AND INVESTIGATE SOIL BELOW. REMOVE LOOSE SOIL AND FILL

igl< 27igr> REMOVE INTERIOR WOOD LINTEL AND REPLACE PER TYPICAL DETAIL

 \langle 28 \rangle NEW 2x10 SISTER. ENDS WITHIN 4" OF WALL EACH END WITH (2) 1/4"x3 1/2" SWS.

WITH CDF. REPLACE SIDEWALK WITH NEW 4" CONCRETE SLAB.

29 NEW 2x6 INFILL JOIST WITH LUS24 EACH END. (30) REPLACE ROTTED OUTRIGGERS AT GUTTER SUPPORT WITH 2x WITH DEPTH TO MATCH.

PLAN NOTES:

1. COORDINATE ALL DIMENSIONS, DOOR AND WINDOW LOCATIONS WITH ARCHITECTURAL DRAWINGS. 2. REMOVE DAMAGED OR SATURATED SHEATHING AND REPLACE WITH NEW APA RATED SHEATHING. REPLACE DAMAGED,

SATURATED OR DETERIORATED JOISTS WITH NEW JOISTS OF THE SAME SIZE.

3. LUMBER AT 1ST FLOOR AND BASEMENT SHALL BE PRESSURE TREATED. 4. WOOD LINTELS AT OPENINGS IN MASONRY WALLS WHERE ROTTED SHALL BE REPLACED WITH A STEEL HSS4x4x3/8 (GALVANIZED) LINTEL AT EACH 4" WYTHE. ALTERNATIVELY USE A 4"x8" PRECAST CONCRETE LINTEL WITH #5 TOP AND

BOTTOM EACH 4" WYTHE, OR AN L4x3-1/2x5/16" LINTEL LLV, EACH WYTHE.

5. SEE STRUCTURAL ELEVATION DRAWINGS FOR EXTERIOR BRICK REPAIR AND TUCKPOINTING.

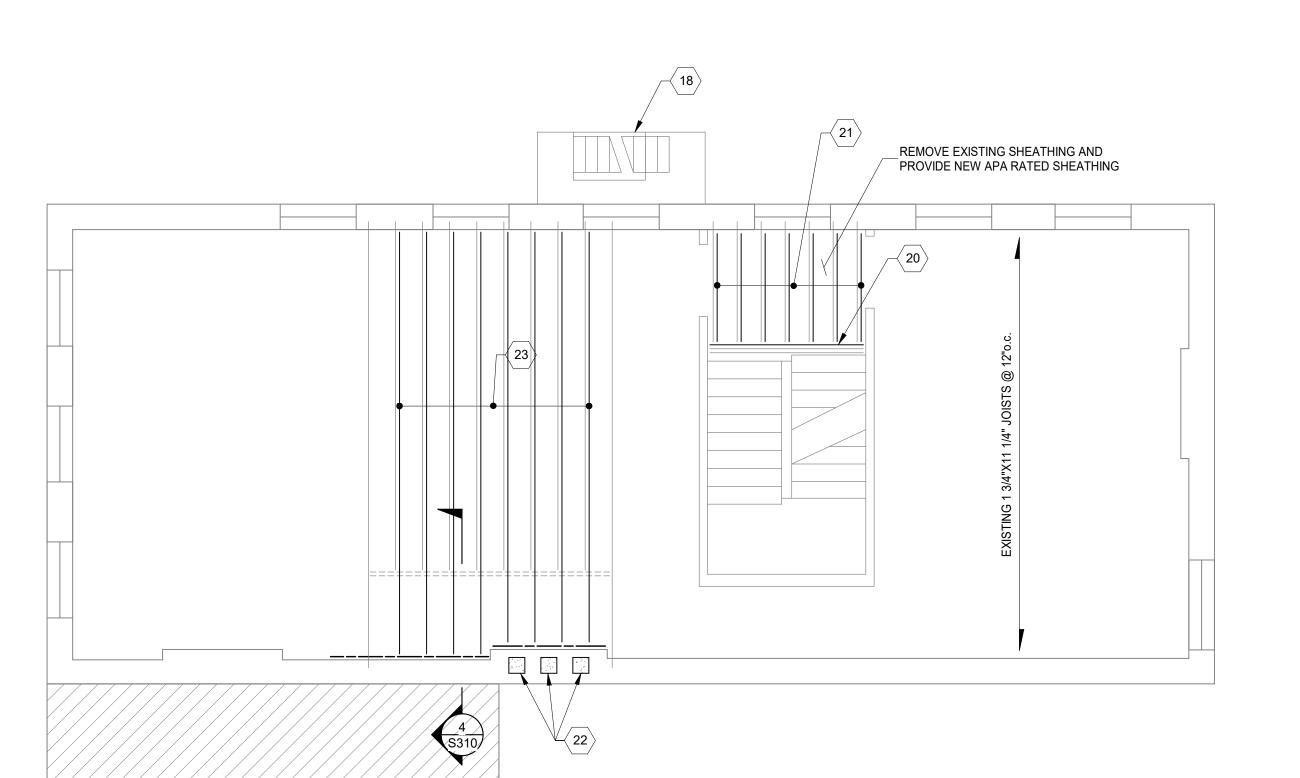
6. REPAIR AND TUCKPOINT INTERIOR MASONRY PER THE GENERAL NOTES.

7. FIELD VERIFY ALL EXISTING CONDITIONS, NOTIFY ADVANTAGE GROUP ENGINEERS OF ANY DESCREPANCIES. 8. SWS = STRUCTURAL WOOD SCREW. ALLOWABLE SCREWS ARE 1/4" SIMPSON SDS, 1/4" SPAX POWERLAGS OR 1/4"

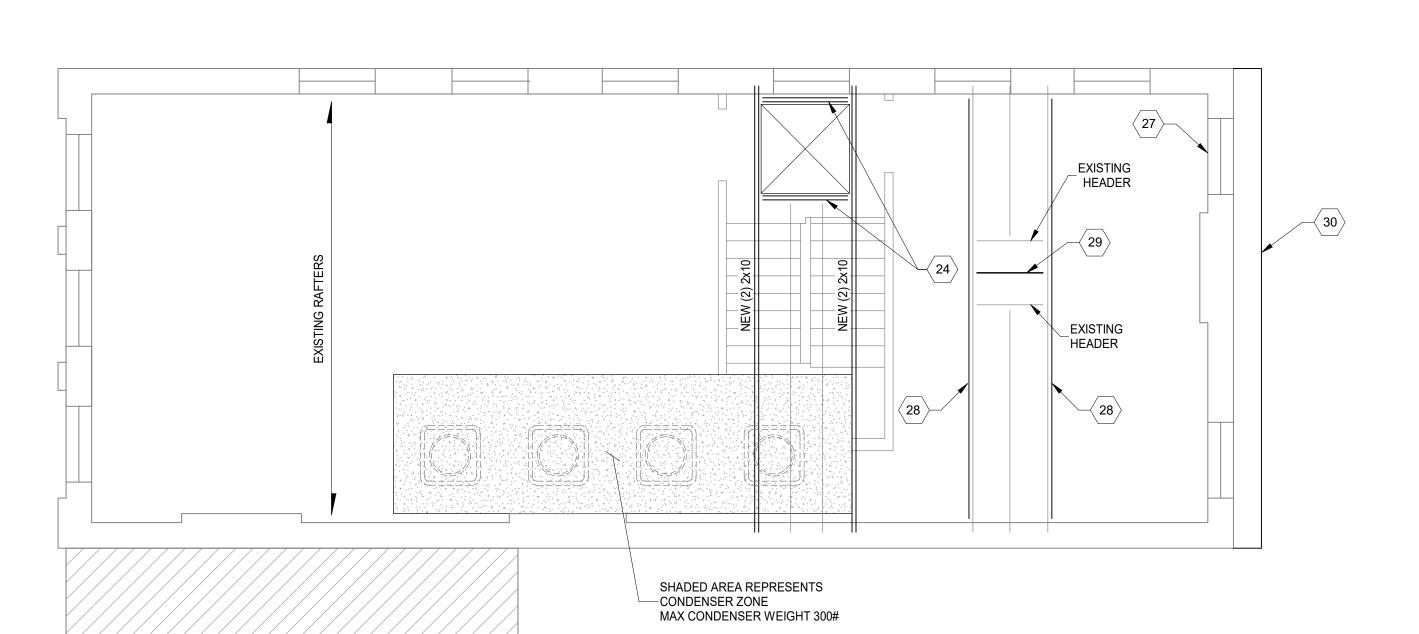
FASTEN MASTER LEDGER LOK.

9. FASTEN SISTERS WITH 1/4"x3" SWS @ 24"o.c. STAGGERED UNLESS NOTED OTHERWISE. 10. WOOD DETERIORATION INDICATES TERMITE DAMAGE. CONSULT A TERMITE CONTROL SPECIALIST AND TREAT THE

BUILDING FOR TERMITES AND FUTURE TERMITE INFESTATION. 11. REPLACE FLOOR SHEATHING THROUGHOUT 1ST FLOOR WITH 3/4" APA RATED SHEATHING.









ELEVATION NOTES:

- 1. TUCKPOINT JOINTS IN MASONRY WHERE MORTAR IS SOFT, DAMAGED OR MISSING.
- 2. REMOVE AND REPLACE SPALLING OR SOFT BRICK THAT IS COMPROMISED MORE THAT 3/4" OF DEPTH.
- 3. REMOVE CRACKED, DAMAGED OR SEVERLY SPALLED LINTELS AND REPLACE WITH RECLAIMED STONE OR CAST STONE LINTEL TO MATCH EXISTING.
- 4. ALL OBSERVATIONS WHERE MADE FROM THE GROUND LEVEL AND REPAIRS ARE SUBJECT TO CHANGE BASED ON CONTRACTOR HANDS ON INSPECTIONS.
- 5. AT CRACKS OR DAMAGED AREAS OF PARGE COAT, CONTRACTOR SHALL REMOVE ALL PARGE COAT THAT IS NOT SOUNDLY CONNECTED TO THE BRICK, AND REPLACE WITH NEW PARGE COAT. TUCKPOINT ANY DETERIORATED MORTAR JOINTS PRIOR TO APPLYING NEW PARGE COAT.

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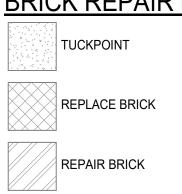


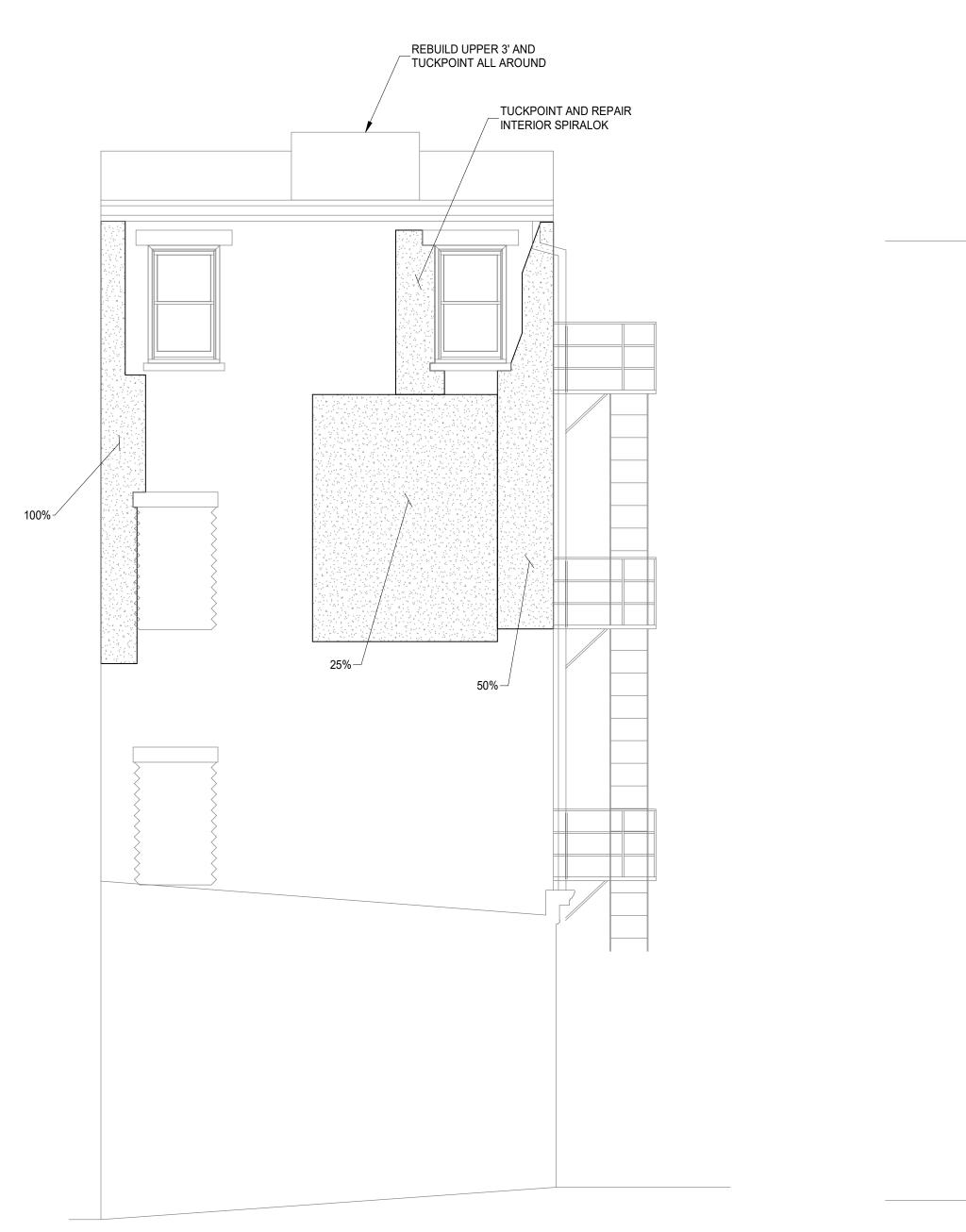
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BRICK REPAIR LEGEND:





NORTH ELEVATION SCALE 1/4" = 1'-0"

100%-

REPUBLIC

ELEVATION NOTES:

- 1. TUCKPOINT JOINTS IN MASONRY WHERE MORTAR IS SOFT, DAMAGED OR MISSING.
- 2. REMOVE AND REPLACE SPALLING OR SOFT BRICK THAT IS COMPROMISED MORE THAT 3/4" OF DEPTH.
- REMOVE CRACKED, DAMAGED OR SEVERLY SPALLED LINTELS AND REPLACE WITH RECLAIMED STONE OR CAST STONE LINTEL TO MATCH EXISTING.
- ALL OBSERVATIONS WHERE MADE FROM THE GROUND LEVEL AND REPAIRS ARE SUBJECT TO CHANGE BASED ON CONTRACTOR HANDS ON INSPECTIONS.
- 5. AT CRACKS OR DAMAGED AREAS OF PARGE COAT, CONTRACTOR SHALL REMOVE ALL PARGE COAT THAT IS NOT SOUNDLY CONNECTED TO THE BRICK, AND REPLACE WITH NEW PARGE COAT. TUCKPOINT ANY DETERIORATED MORTAR JOINTS PRIOR TO APPLYING NEW PARGE COAT.

BRICK REPAIR LEGEND:

TUCKPOINT REPLACE BRICK REPAIR BRICK



SCALE 1/4" = 1'-0"

SOUTH ELEVATION SCALE 1/4" = 1'-0"

STRUCTURAL INFORMATION NOTED IS BASED ON ASSUMPTIONS OF CONDITION OF EXISTING FRAMING & FRAMING HIDDEN FROM VISUAL OBSERVATION. DETAILS OF PROPOSED FRAMING MODIFICATION/REPAIRS ARE SUBJECT TO CHANGE ONCE DEMOLITION IS UNDERWAY

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EXISTING STUD WALL SHORE AS NEEDED

-EXISTING BLOCKING

NEW APA RATED SHEATHING-

NEW 2x4 PT PLATE WITH 1/2"Ø EXPANSION BOLTS @ 48"o.c.—

2" MIN EMBEDMENT

EXISTING

CONC SLAB

NEW JOISTS_

SEE PLAN

REPLACE OR FULL HEIGHT SISTER DETERIORATED STUDS

-NEW 2x12 CONT RIM BOARD

-APA RATED SHEATHING

─NEW (2) 2x12 HEADER

STRUCTURAL INFORMATION NOTED IS BASED ON ASSUMPTIONS OF CONDITION OF EXISTING

FRAMING & FRAMING HIDDEN FROM VISUAL OBSERVATION. DETAILS OF PROPOSED FRAMING MODIFICATION/REPAIRS ARE SUBJECT TO CHANGE ONCE DEMOLITION IS UNDERWAY

-NEW (2) 2x4 TOP PLATE

-NEW 2x4 STUD @ 16"o.c.

NEW 2x8 LEDGER WITH

SCALE 3/4" = 1'-0"

(5) 0.131"x3" NAILS EACH STUD

─NEW 2x6 @ 16"o.c.

LUS26 TYP—

STRINGER CONNECTOR

SIMPSON LSCZ

STAIR STRINGER-

EXISTING STUD WALL

_SHORE AS NEEDED

EXISTING BLOCKING

NEW (2) 2x4 TOP PLATE

—NEW 2x4 STUD @ 16"o.c.

REPLACE OR FULL HEIGHT

SISTER DETERIORATED STUDS

NEW APA RATED SHEATHING

NEW (2) 2x12 RIM BOARD/BEAM
CUT AND LEAVE OUT AT FLOOR HEADER BEARING

/--NEW 2x8 JOIST @ 16"o.c.

-NEW (2) 2x12 HEADER

NEW 2x8 LEDGER WITH

(3) 0.131"x3" NAILS EACH STUD

-NEW APA RATED SHEATHING

WHERE APPLICABLE

NEW 2x4 WITH __ (2) 0.131"x3" NAILS @ 16"o.c.

BLOCKING BETWEEN STUDS-

NEW (2) 2x4 CRIPPLE BELOW HEADER—

NEW 2x4 PT PLATE WITH 1/2"Ø EXPANSION BOLTS @ 48"o.c.— 2" MIN EMBEDMENT

NEW 2x4 BLOCKING

EXISTING

CONC SLAB

EACH SIDE OF CRIPPLE

NEW APA RATED SHEATHING

2X RIPPED OVERFRAME SLEEPERS

NEW APA RATED SHEATHING

WHERE APPLICABLE-

T/SHEATHING MATCH EXISTING

COORD w/ ARCH

EXISTING JOISTS SISTER PER PLAN

—BLOCKING EACH SPACE

1'-0"

2'-0" MIN

SCALE 3/4" = 1'-0" \ S310

-NEW 2x12 SISTER

-EXISTING MASONRY WALL

SHEATHING

-LUS210

NEW APA RATED

(2) 2x12 LEDGER WITH 5/8"Ø THREADED ROD AND HILTI HIT-HY 270 ADHESIVE @ 12"o.c. STAGGERED 6" MIN EMBEDMENT

SCALE 3/4" = 1'-0" \ S310

EXISTING SHEATING

SEE PLAN

SEE PLAN

SIMPSON 'LPC6Z' POST CAP

SIMPSON ABA66Z POST BASE

w/5/8"∅ MIN ANCHOR BOLT w/6" EMBED

-8"(MIN) DEEP x 2'-0"x2'-0" CONC FOOTING

SEE PLAN

FOUNDATION FOR CONCRETE FOOTING SHALL BEAR ON

END OF EXISTING

EXISTING

SHEATHING

−SWS @ 24"o.c.

FIRM NATIVE SOIL

EXISTING CONC SLAB

—PT 6x6 @ 7'-4" o.c. MAX

2 PER POST

(3) PT 2x10's CONT

OR NEW APA RATED
SHEATHING AS NEEDED

(3) 10d TOE NAILS

ÈÁCH JOIST

NEW OR EXISTING JOIST

— STAGGER ALL SPLICES WITHIN 16" OF SUPPORTS EACH SIDE OF POST

EXISTING

MULTIWYTHE-

EXISTING STONE

FOUNDATION WALL

BRICK WALL

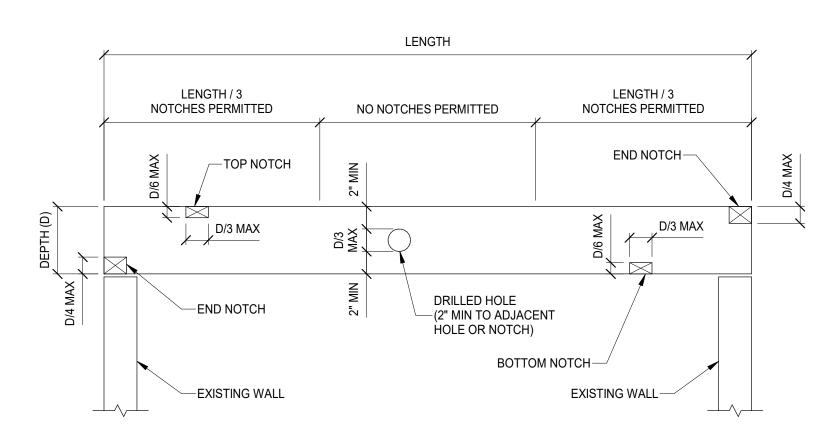
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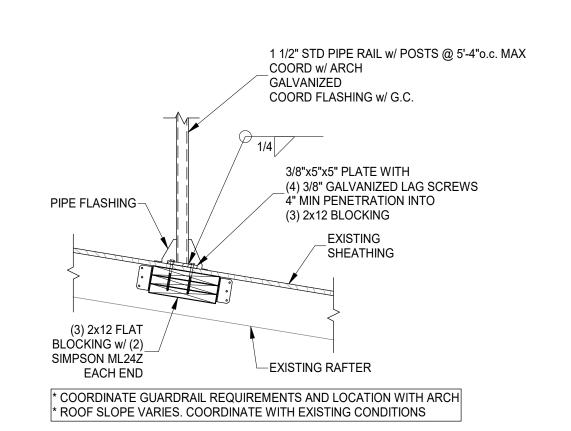
EXISTING MULTI-WYTHE— REPAIR BRICK AS NEEDED **BRICK WALL** -NEW BRICK MASONRY EXISTING STONE __ LINTEL TO REMAIN L4x3 1/2x5/16 LLV GALVANIZED EACH WYTHE 8" MINIMUM BEARING EACH END_ ALTERNATE: USE HSS4x4x1/4 EACH INTERIOR WYTHE UNO ON PLAN * CONTRACTOR TO NOTIFY ENGINEER IF PROPOSED OPENING IS IN A WALL GREATER THAN (3) WYTHES THICK

TYPICAL EXTERIOR WALL, INTERIOR LINTEL REPLACEMENT DETAIL

SCALE 3/4" = 1'-0"



NOTIFY ENGINEER FOR DIRECTION IF OPENINGS DO NOT MEET THE CRITERIA SHOWN ALLOWABLE WOOD JOIST OPENINGS SCALE 3/4" = 1'-0"



TYPICAL RAILING CONNECTION TO ROOF

SCALE 3/4" = 1'-0"

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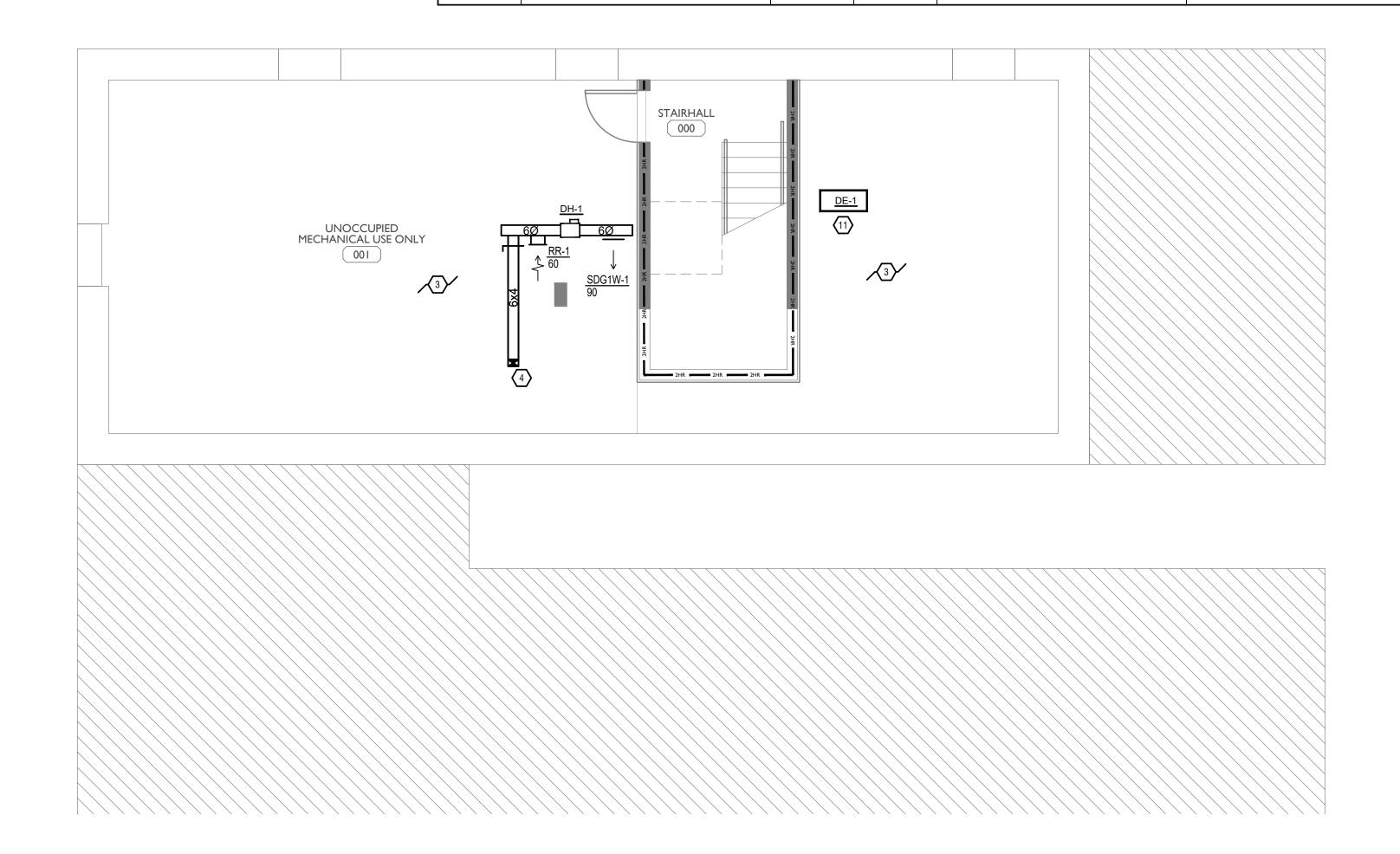
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STRUCTURAL INFORMATION NOTED IS BASED ON ASSUMPTIONS OF CONDITION OF EXISTING FRAMING & FRAMING HIDDEN FROM VISUAL OBSERVATION. DETAILS OF PROPOSED FRAMING MODIFICATION/REPAIRS ARE SUBJECT TO CHANGE ONCE DEMOLITION IS UNDERWAY

CALLOUT	DESCRIPTION	FACE SIZE (IN)	INLET SIZE (IN)	MODEL	NOTES
DTG-1	RETURN AIR GRILLE, ALL-STEEL CONSTRUCTION, 1/3" SPACED FINS AT 20 DEGREES	18x12	16x10	HART AND COOLEY/ 650	BRIGHT WHITE FINISH
DTG-1C	RETURN AIR GRILLE, ALL-STEEL CONSTRUCTION, 1/3" SPACED FINS AT 20 DEGREES	18x12	16x10	HART AND COOLEY/ 650	BRIGHT WHITE FINISH
DVH-4	28 GAUGE GALVANIZED STEEL. PRE-PAINTED DRYER VENT.	6x7	4Ø	FAMCO DWVP	BACKDRAFT DAMPER/ANGLED HOOD.
EVH-4	28 GAUGE GALVANIZED STEEL. PRE-PAINTED EXHAUST VENT.	6x7	4Ø	FAMCO SDWVP	BACKDRAFT DAMPER/ANGLED HOOD. 1/4 INCH INSECT SCREEN.
EVH-6	28 GAUGE GALVANIZED STEEL. PRE-PAINTED EXHAUST VENT.	8x9	6Ø	FAMCO SDWVP	BACKDRAFT DAMPER/ANGLED HOOD. 1/4 INCH INSECT SCREEN.
IVH-6	28 GAUGE GALVANIZED STEEL. PRE-PAINTED INTAKE VENT.	8x9	6Ø	FAMCO SWVP	ANGLED HOOD.1/4 INCH INSECT SCREEN.
RG-8	RETURN AIR GRILLE, ALL-STEEL CONSTRUCTION, 1/3" SPACED FINS AT 20 DEGREES	22x16	20x14	HART AND COOLEY/ 650	BRIGHT WHITE FINISH
RG-9C	RETURN AIR GRILLE, ALL-STEEL CONSTRUCTION, 1/3" SPACED FINS AT 20 DEGREES	26x16	24x14	HART AND COOLEY/ 650	BRIGHT WHITE FINISH
RG-15	RETURN AIR GRILLE, ALL-STEEL CONSTRUCTION, 1/3" SPACED FINS AT 20 DEGREES	26x14	24x12	HART AND COOLEY/ 650	BRIGHT WHITE FINISH
RR-1	RETURN REGISTER, ALL-STEEL CONSTRUCTION, OPPOSED-BLADE DAMPER	10x6	8x4	HART AND COOLEY/ 92VHV	BRIGHT WHITE FINISH
SDG1W-1	ALUMINUM SINGLE DEFLECTION SPIRAL DIFFUSER	12x5	10x3	HART AND COOLEY/ SV	ADJUSTABLE DAMPER, BRIGHT WHITE FINISH
SR1W-1C	STEEL 1-WAY REGISTER, PLATE DAMPER, 1/3" FIN SPACING	10x6	8x4	HART AND COOLEY/ 651	ADJUSTABLE PLATE DAMPER, BRIGHT WHITE FINISH
SR1W-3	STEEL 1-WAY REGISTER, PLATE DAMPER, 1/3" FIN SPACING	10x8	8x6	HART AND COOLEY/ 651	ADJUSTABLE PLATE DAMPER, BRIGHT WHITE FINISH
SR1W-4	STEEL 1-WAY REGISTER, PLATE DAMPER, 1/3" FIN SPACING	12x8	10x6	HART AND COOLEY/ 651	ADJUSTABLE PLATE DAMPER, BRIGHT WHITE FINISH
SR1W-5	STEEL 1-WAY REGISTER, PLATE DAMPER, 1/3" FIN SPACING	14x8	12x6	HART AND COOLEY/ 651	ADJUSTABLE PLATE DAMPER, BRIGHT WHITE FINISH
SR2W-1C	STEEL 2-WAY REGISTER, MS DAMPER, 1/3" FIN SPACING	8x6	6x4	HART AND COOLEY/ 661	ADJUSTABLE DAMPER IN FACE, BRIGHT WHITE FINISH
SR2W-3C	STEEL 2-WAY REGISTER, MS DAMPER, 1/3" FIN SPACING	16x6	14x4	HART AND COOLEY/ 661	ADJUSTABLE DAMPER IN FACE, BRIGHT WHITE FINISH
SR2W-4C	STEEL 2-WAY REGISTER, MS DAMPER,	14x8	12x6	HART AND COOLEY/ 661	ADJUSTABLE DAMPER IN FACE, BRIGHT

WHITE FINISH



1/3" FIN SPACING

★ KEYED SHEET NOTES

- ROUTE 3/4" CONDENSATE DRAIN LINE TO FLOOR DRAIN IN MECHANICAL CLOSET. SLOPE PIPE A MINIMUM OF 1/8 " PER FOOT AWAY FROM UNIT. ROUTE LINE SET FROM OUTDOOR UNIT TO INDOOR AIR HANDLER. ALL PIPING
- SHALL BE CONCEALED IN FINISHED AREA. SIZE PER MANUFACTURES RECOMMENDATIONS. ALL BASEMENTS SHALL BE VENTILATED AS STORAGE/WAREHOUSE SPACE IN ACCORDANCE WITH TABLE 403.3 OF THE 2017 OHIO MECHANICAL CODE AT A RATE OF 0.06 CFM PER SQUARE FOOT. PROVIDE NEW FAN IN BASEMENT FOR
- CODE MINIMUM OSA LISTED ABOVE. FRESH AIR INTAKE THRU WALL TO WALL CAP. 5. DUCT EXHAUST UP THROUGH ROOF WITH RAIN-PROOF CAP.
- 6. 4" EXHAUST DUCT TO BE ROUTED DIRECTLY TO ROOF, AS ALLOWED PER 717.6.1 EXCEPTION. DUCT MUST BE MINIMUM 26 GA. AND BE CONTAINED
- WITHIN WALL CAVITY FOR FULL LENGTH. FIRE CAULK AROUND ALL PENETRATIONS. REFER TO DETAIL. 6" EXHAUST TO BE ROUTED DIRECTLY TO ROOF, AS ALLOWED PER OBC 714.4.1
- EXCEPTION 1. UNDERCUT DOOR 1" ABOVE FINISHED FLOOR FOR RETURN/MAKE UP AIR.
- 9. DUCTED RETURN BETWEEN TRANSFER GRILLES TO AVOID EXPOSED WALL
- 10. ROUTE EXHAUST TO EXTERIOR WALL. INSTALL A LOUVERED VENT. SEE ARCHITECT BEFORE PENETRATION FOR EXACT LOCATION AND COLOR COORDINATION. ALL EXHAUST SHALL MEET THE FOLLOWING REQUIREMENTS.
- 10.1. 3' FROM PROPERTY LINE. 10.2. 3' FROM OPERABLE OPENINGS INTO BUILDING.
- 12.3 10' FROM MECHANICAL AIR INTAKE.
- 1. ROUTE 3/4" CONDENSATE DRAIN LINE TO FLOOR DRAIN IN BASEMENT. SLOPE PIPE A MINIMUM OF 1/8 " PER FOOT AWAY FROM UNIT. PROVIDE CONDENSATE PUMP AS REQUIRED.
- 2. DUCTED RETURN SLEEVE TO AVOID EXPOSED WALL CAVITY.
- 13. ROUTE EXHAUST DUCT UP IN JOIST POCKET. RATING SHALL BE MAINTAINED AROUND JOIST TO PREVENT FIRE DAMPER. REFER TO ARCHITECTURAL PLANS FOR DETAILS.

MECHANICAL SCOPE OF WORK IS TO PROVIDE NEW HVAC EQUIPMENT TO RESIDENTIAL SPACES. MECHANICAL CONTRACTOR SHALL REFERENCE ALL DISCIPLINE DRAWING, ETC. TO REVEAL FULL SCOPE OF WORK. REFER TO MECHANICAL SPECIFICATIONS FOR ADDITIONAL DETAILS.

HVAC DESIGN CONDITIONS

ı	COMMERCIAL	•	<u>RESIDENTIAL</u>	
ı	COOLING	<u>HEATING</u>	COOLING	HEATING
ı	OUTDOOR: 93 DB / 75 WB	OUTDOOR: 0 DB	OUTDOOR: 93 DB / 75 WB	OUTDOOR:
ı		INDOOR: 70	INDOOR: 75	INDOOR: 70

GENERAL NOTES

DIFFUSER LOCATIONS.

FLOOR/CEILING.

- A. FOR FULL SCHEDULES, SPECIFICATIONS, AND COMPLETE LISTING SEE DETAIL
- B. COORDINATE ROUTING OF ALL WORK WITH OTHER TRADES.
- ALL MECHANICAL EQUIPMENT.
- . INSTALL ALL EQUIPMENT PER MANUFACTURER'S REQUIREMENTS. MAINTAIN ALL CODE RECOMMENDED CLEARANCES FOR ACCESS AND MAINTENANCE.

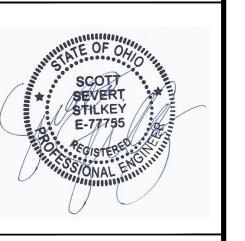
C. COORDINATE WITH ELECTRICAL CONTRACTOR FOR POWER CONNECTIONS TO

- REFER TO ARCHITECTURAL PLANS FOR DIMENSIONS, AND FINAL CEILING
- . PROVIDE BACKDRAFT DAMPERS FOR ALL EXHAUST SYSTEMS AND EITHER LOUVER, BRICK VENT, OR CAPS AT ALL EXTERIOR BUILDING PENETRATIONS.
- G. IN DWELLING UNITS, ROUTE ALL SUPPLY, RETURN, AND EXHAUST DUCTWORK ABOVE DROP CEILING OR IN BULKHEADS. COORDINATE ROUTING WITH ARCHITECTURAL DRAWINGS. DUCTS SHALL BE RUN BELOW THE RATED
- H. 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 OHIO MECHANICAL CODE.
- MOUNT THERMOSTATS 60" ABOVE FINISHED FLOOR. MOUNT THERMOSTATS IN ADA UNITS 40" ABOVE FINISHED FLOOR.
- . 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.
- K. MATERIALS WITHIN PLENUMS SHALL BE NONCOMBUSTIBLE OR SHALL BE LISTED AND LABLED AS HAVING A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM E 84 OR UL 723.
- . THE FOLLOWING GUIDELINES MUST BE FOLLOWED FOR THE DOMESTIC DRYER EXHAUST SYSTEMS.
- J.A. EXHAUST DUCTS SHALL HAVE A SMOOTH INTERIOR FINISH AND BE CONSTRUCTED OF METAL A MINIMUM OF 28 GAGE.
- J.B. DUCT SIZE SHALL BE 4 INCHES NOMINAL DIAMETER. J.C. DUCTS SHALL BE SUPPORTED AT 4-FOOT INTERVALS AND SECURED IN
- PLACE. THE INSERT END OF THE DUCT SHALL EXTEND INTO THE ADJOINING DUCT OR FITTING IN THE DIRECTION OF AIRFLOW. J.D. DUCTS SHALL NOT BE JOINED WITH SCREWS OF SIMILAR FASTENERS THAT
- PROTRUDE MORE THAN \$\frac{1}{8} INCH INTO THE INSIDE OF THE DUCT. J.E. PROTECTIVE SHIELD PLATES SHALL BE PLACED WHERE NAILS OR SCREWS
- FROM FINISH OR OTHER WORK ARE LIKELY TO PENETRATE THE CLOTHES DRYER EXHAUST DUCT.SHIELD PLATES SHALL BE PLACED ON THE FINISHED FACE OF ALL FRAMING MEMBERS WHERE THERE IS LESS THAN 1-1/4 INCHES BETWEEN THE DUCT AND THE FINISHED FACE OF THE FRAMING MEMBER SHIELD PLATES SHALL BE CONSTRUCTED OF STEEL, HAVE A THICKNESS OF 0.062 INCHES, AND EXTEND NOT LESS THAN 2 INCHES ABOVE SOLE PLATES AND BELOW TOP PLATES.
- J.F. TRANSITION DUCTS USED TO CONNECT THE DRYER TO THE EXHAUST DUCT SYSTEM SHALL BE A SINGLE LENGTH THAT IS LISTED AND LABELED IN ACCORDANCE WITH UL 2158A. TRANSITION DUCTS SHALL BE NOT GREATER THAN 8 FEET IN LENGTH AND SHALL NOT BE CONCEALED WITHIN
- CONSTRUCTION. J.G. PROVIDE DRYER WALL BOX EQUAL TO DUNDAS JAFINE MODEL DRB4XZW
- NEAR DRYER. J.H. PROVIDE A PERMANENT LABEL OR TAG (EQUAL TO DRYERPLACARD) INDICATING ACTUAL EQUIVALENT LENGTH OF EXHAUST DUCT. LENGTH SHALL INCLUDE 5' FOR 90 . LABEL/TAG MUST BE WITHIN 6' OF DRYER EXHAUST CONNECTION. DRYER EXHAUST DUCT FITTING EQUIVALENT LENGTH SHALL BE 2'-6" FOR A RADIUS MITERED 45-DEGREE ELBOW AND 5 FEET FOR A RADIUS MITERED 90-DEGREE ELBOW.

SYMBOLS LI	EGEND — HVAC
Ū	THERMOSTAT
	CEILING DIFFUSER
→	SIDE WALL GRILL
« \-	return wall grill
← \-	AIR FLOW DIRECTION
14x10	DUCTWORK
X	TYPICAL SUPPLY DUCT DN
	TYPICAL RETURN DUCT DN
N N	TYPICAL EXHAUST DUCT
ردرج	TURNING VANES
	FLEXIBLE DUCT, 8'-0" LONG MAX.
0	TYPICAL ROUND DUCT DN
	ROUND DUCT UP
	MVD MANUAL VOLUME DAMPER
	DROPPED CEILING/SOFFIT



MECHANICAL SCOPE OF WORK (PLAN REVIEW ONLY)



Progress Dates 04/28/2023 Permit

Checked By: SSS

Drawn by: RPG



PR-09757

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DIFFUSER, GRILLE, AND REGISTER SCHEDULE | EACE SIZE | INILET SIZE |

RETURN AIR GRILLE, ALL-STEEL

RETURN AIR GRILLE, ALL-STEEL

RETURN REGISTER, ALL-STEEL

STEEL 1-WAY REGISTER, PLATE

STEEL 1-WAY REGISTER, PLATE

STEEL 1-WAY REGISTER, PLATE

STEEL 1-WAY REGISTER, PLATE

STEEL 2-WAY REGISTER, MS DAMPER,

STEEL 2-WAY REGISTER, MS DAMPER,

STEEL 2-WAY REGISTER, MS DAMPER,

DAMPER, 1/3" FIN SPACING

DAMPER, 1/3" FIN SPACING

DAMPER, 1/3" FIN SPACING

DAMPER, 1/3" FIN SPACING

1/3" FIN SPACING

1/3" FIN SPACING

1/3" FIN SPACING

CONSTRUCTION, OPPOSED-BLADE

20 DEGREES

20 DEGREES

DAMPER

DIFFUSER

SDG1W-1

SR1W-1C

SR1W-3

SR1W-4

SR1W-5

SR2W-1C

SR2W-3C

SR2W-4C

Z:\~Project Directories\9700—9799\9757 — Findlay Flats Findlay Parkside (Willkommen ? Phase II)\~Construction Documents\~Phase 1 (8 Buildings)\1806 REPUBLIC\XREF THESE DRAWINGS HAVE BEEN PRE TO DOCUMENTS. THESE DRAWINGS HAVE BEEN PRE TO DETERMINE CODE COMPLIANCE. THE INSTALLING CONTRACTOR IS RESPONSIBLE TO ENSURE THAT MEANS, METHODS, AND MATERIALS UGENERAL CONTRACTOR, ETC.

CONSTRUCTION, 1/3" SPACED FINS AT

CONSTRUCTION, 1/3" SPACED FINS AT

ALUMINUM SINGLE DEFLECTION SPIRAL | 12x5

26x16

26x14

10x6

10x6

10x8

12x8

14x8

16x6

14x8

24x14

24x12

8x4

10x3

8x4

8x6

10x6

12x6

6x4

14x4

12x6

CALLOUT	DESCRIPTION	FACE SIZE (IN)	INLET SIZE (IN)	MODEL	NOTES
DTG-1	RETURN AIR GRILLE, ALL-STEEL CONSTRUCTION, 1/3" SPACED FINS AT 20 DEGREES	18x12	16x10	HART AND COOLEY/ 650	BRIGHT WHITE FINISH
DTG-1C	RETURN AIR GRILLE, ALL-STEEL CONSTRUCTION, 1/3" SPACED FINS AT 20 DEGREES	18x12	16x10	HART AND COOLEY/ 650	BRIGHT WHITE FINISH
DVH-4	28 GAUGE GALVANIZED STEEL. PRE-PAINTED DRYER VENT.	6x7	4Ø	FAMCO DWVP	BACKDRAFT DAMPER/ANGLED HOOD.
EVH-4	28 GAUGE GALVANIZED STEEL. PRE-PAINTED EXHAUST VENT.	6x7	4Ø	FAMCO SDWVP	BACKDRAFT DAMPER/ANGLED HOOD. 1/4 INCH INSECT SCREEN.
EVH-6	28 GAUGE GALVANIZED STEEL. PRE-PAINTED EXHAUST VENT.	8x9	6Ø	FAMCO SDWVP	BACKDRAFT DAMPER/ANGLED HOOD. 1/4 INCH INSECT SCREEN.
IVH-6	28 GAUGE GALVANIZED STEEL. PRE-PAINTED INTAKE VENT.	8x9	6Ø	FAMCO SWVP	ANGLED HOOD.1/4 INCH INSECT SCREEN.
RG-8	RETURN AIR GRILLE, ALL-STEEL CONSTRUCTION, 1/3" SPACED FINS AT 20 DEGREES	22x16	20x14	HART AND COOLEY/ 650	BRIGHT WHITE FINISH

HART AND COOLEY/ 650

HART AND COOLEY/ 650

HART AND COOLEY/ 92VHV

HART AND COOLEY/ SV

HART AND COOLEY/ 651

HART AND COOLEY/ 651

HART AND COOLEY/ 651

HART AND COOLEY/ 651

HART AND COOLEY/ 661

HART AND COOLEY/ 661

HART AND COOLEY/ 661

BRIGHT WHITE FINISH

BRIGHT WHITE FINISH

BRIGHT WHITE FINISH

FINISH

WHITE FINISH

ADJUSTABLE DAMPER, BRIGHT WHITE

ADJUSTABLE PLATE DAMPER, BRIGHT

ADJUSTABLE PLATE DAMPER, BRIGHT

ADJUSTABLE PLATE DAMPER, BRIGHT

ADJUSTABLE PLATE DAMPER, BRIGHT

ADJUSTABLE DAMPER IN FACE, BRIGHT

ADJUSTABLE DAMPER IN FACE, BRIGHT

ADJUSTABLE DAMPER IN FACE, BRIGHT

100 10x8 I-BEDROOM APARTMENT [101 4 T IVH-6

KEYED SHEET NOTES

- ROUTE 3/4" CONDENSATE DRAIN LINE TO FLOOR DRAIN IN MECHANICAL CLOSET. SLOPE PIPE A MINIMUM OF 1/8 " PER FOOT AWAY FROM UNIT. ROUTE LINE SET FROM OUTDOOR UNIT TO INDOOR AIR HANDLER. ALL PIPING SHALL BE CONCEALED IN FINISHED AREA. SIZE PER MANUFACTURES
- RECOMMENDATIONS. ALL BASEMENTS SHALL BE VENTILATED AS STORAGE/WAREHOUSE SPACE IN ACCORDANCE WITH TABLE 403.3 OF THE 2017 OHIO MECHANICAL CODE AT A RATE OF 0.06 CFM PER SQUARE FOOT. PROVIDE NEW FAN IN BASEMENT FOR CODE MINIMUM OSA LISTED ABOVE.
- FRESH AIR INTAKE THRU WALL TO WALL CAP. . DUCT EXHAUST UP THROUGH ROOF WITH RAIN-PROOF CAP.
- 6. 4" EXHAUST DUCT TO BE ROUTED DIRECTLY TO ROOF, AS ALLOWED PER 717.6.1 EXCEPTION. DUCT MUST BE MINIMUM 26 GA. AND BE CONTAINED WITHIN WALL CAVITY FOR FULL LENGTH. FIRE CAULK AROUND ALL
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- PUMP AS REQUIRED. 2. DUCTED RETURN SLEEVE TO AVOID EXPOSED WALL CAVITY.
- 13. ROUTE EXHAUST DUCT UP IN JOIST POCKET. RATING SHALL BE MAINTAINED AROUND JOIST TO PREVENT FIRE DAMPER. REFER TO ARCHITECTURAL PLANS

MECHANICAL SCOPE OF WORK

MECHANICAL SCOPE OF WORK IS TO PROVIDE NEW HVAC EQUIPMENT TO RESIDENTIAL SPACES. MECHANICAL CONTRACTOR SHALL REFERENCE ALL DISCIPLINE DRAWING, ETC. TO REVEAL FULL SCOPE OF WORK. REFER TO MECHANICAL SPECIFICATIONS FOR ADDITIONAL DETAILS.

HVAC DESIGN CONDITIONS

COMMERCIAL	<u>RESIDENTIAL</u>			
COOLING OUTDOOR: 93 DB / 75 WB INDOOR: 72	 COOLING OUTDOOR: 93 DB / 75 WB INDOOR: 75	HEATING OUTDOOR: 0 E INDOOR: 70		

GENERAL NOTES

ALL MECHANICAL EQUIPMENT.

DIFFUSER LOCATIONS.

- A. FOR FULL SCHEDULES, SPECIFICATIONS, AND COMPLETE LISTING SEE DETAIL
- B. COORDINATE ROUTING OF ALL WORK WITH OTHER TRADES.

C. COORDINATE WITH ELECTRICAL CONTRACTOR FOR POWER CONNECTIONS TO

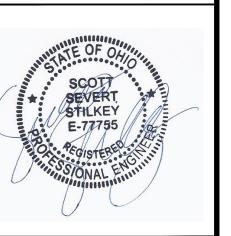
-). INSTALL ALL EQUIPMENT PER MANUFACTURER'S REQUIREMENTS. MAINTAIN ALL
- CODE RECOMMENDED CLEARANCES FOR ACCESS AND MAINTENANCE.
- REFER TO ARCHITECTURAL PLANS FOR DIMENSIONS, AND FINAL CEILING
- PROVIDE BACKDRAFT DAMPERS FOR ALL EXHAUST SYSTEMS AND EITHER LOUVER, BRICK VENT, OR CAPS AT ALL EXTERIOR BUILDING PENETRATIONS.
- G. IN DWELLING UNITS. ROUTE ALL SUPPLY. RETURN. AND EXHAUST DUCTWORK ABOVE DROP CEILING OR IN BULKHEADS. COORDINATE ROUTING WITH ARCHITECTURAL DRAWINGS. DUCTS SHALL BE RUN BELOW THE RATED
- H. 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 OHIO MECHANICAL CODE.
- MOUNT THERMOSTATS 60" ABOVE FINISHED FLOOR. MOUNT THERMOSTATS IN ADA UNITS 40" ABOVE FINISHED FLOOR.
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- . MATERIALS WITHIN PLENUMS SHALL BE NONCOMBUSTIBLE OR SHALL BE LISTED AND LABLED AS HAVING A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM E 84 OR UL 723.
- THE FOLLOWING GUIDELINES MUST BE FOLLOWED FOR THE DOMESTIC DRYER EXHAUST SYSTEMS.
- J.A. EXHAUST DUCTS SHALL HAVE A SMOOTH INTERIOR FINISH AND BE CONSTRUCTED OF METAL A MINIMUM OF 28 GAGE.
- J.B. DUCT SIZE SHALL BE 4 INCHES NOMINAL DIAMETER. J.C. DUCTS SHALL BE SUPPORTED AT 4-FOOT INTERVALS AND SECURED IN PLACE. THE INSERT END OF THE DUCT SHALL EXTEND INTO THE ADJOINING
- DUCT OR FITTING IN THE DIRECTION OF AIRFLOW. J.D. DUCTS SHALL NOT BE JOINED WITH SCREWS OF SIMILAR FASTENERS THAT PROTRUDE MORE THAN 1 INCH INTO THE INSIDE OF THE DUCT.
- J.E. PROTECTIVE SHIELD PLATES SHALL BE PLACED WHERE NAILS OR SCREWS FROM FINISH OR OTHER WORK ARE LIKELY TO PENETRATE THE CLOTHES DRYER EXHAUST DUCT. SHIELD PLATES SHALL BE PLACED ON THE FINISHED FACE OF ALL FRAMING MEMBERS WHERE THERE IS LESS THAN 1-1/4 INCHES BETWEEN THE DUCT AND THE FINISHED FACE OF THE FRAMING MEMBER SHIELD PLATES SHALL BE CONSTRUCTED OF STEEL, HAVE A THICKNESS OF 0.062 INCHES, AND EXTEND NOT LESS THAN 2 INCHES ABOVE SOLE PLATES AND BELOW TOP PLATES.
- J.F. TRANSITION DUCTS USED TO CONNECT THE DRYER TO THE EXHAUST DUCT SYSTEM SHALL BE A SINGLE LENGTH THAT IS LISTED AND LABELED IN ACCORDANCE WITH UL 2158A. TRANSITION DUCTS SHALL BE NOT GREATER THAN 8 FEET IN LENGTH AND SHALL NOT BE CONCEALED WITHIN
- CONSTRUCTION. J.G. PROVIDE DRYER WALL BOX EQUAL TO DUNDAS JAFINE MODEL DRB4XZW
- NEAR DRYER. J.H. PROVIDE A PERMANENT LABEL OR TAG (EQUAL TO DRYERPLACARD) INDICATING ACTUAL EQUIVALENT LENGTH OF EXHAUST DUCT. LENGTH SHALL INCLUDE 5' FOR 90 . LABEL/TAG MUST BE WITHIN 6' OF DRYER EXHAUST CONNECTION. DRYER EXHAUST DUCT FITTING EQUIVALENT LENGTH SHALL BE 2'-6" FOR A RADIUS MITERED 45-DEGREE ELBOW AND 5 FEET FOR A RADIUS MITERED 90-DEGREE ELBOW.

SYMBOLS L	EGEND — HVAC
Ŧ	THERMOSTAT
\boxtimes	CEILING DIFFUSER
→	SIDE WALL GRILL
- \\- -\\-	RETURN WALL GRILL
« √−	AIR FLOW DIRECTION
14x10	DUCTWORK
	TYPICAL SUPPLY DUCT DN
	TYPICAL RETURN DUCT DN
N.	TYPICAL EXHAUST DUCT
(ررم	TURNING VANES
\boxtimes ~~	FLEXIBLE DUCT, 8'-0" LONG MAX.
<u> </u>	TYPICAL ROUND DUCT DN
	ROUND DUCT UP
	MVD MANUAL VOLUME DAMPER
	DROPPED CEILING/SOFFIT
	



(PLAN REVIEW ONLY)

202 **W**



Progress Dates 04/28/2023 Permit

Revisions

Checked By: SSS

Drawn by: RPG **ENGINEERED**

TEAMWORK • COLLABORATION SHARED SUCCESS 515 Monmouth Street, Suite 204 Newport, KY 41071 (859) 261-0585

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DIFFUSER, GRILLE, AND REGISTER SCHEDULE

DAMPER, 1/3" FIN SPACING

DAMPER, 1/3" FIN SPACING

DAMPER, 1/3" FIN SPACING

DAMPER, 1/3" FIN SPACING

1/3" FIN SPACING

1/3" FIN SPACING

1/3" FIN SPACING

STEEL 1-WAY REGISTER, PLATE

STEEL 1-WAY REGISTER, PLATE

STEEL 1-WAY REGISTER, PLATE

STEEL 2-WAY REGISTER, MS DAMPER,

STEEL 2-WAY REGISTER, MS DAMPER,

STEEL 2-WAY REGISTER, MS DAMPER,

SR1W-3

SR1W-4

SR1W-5

SR2W-1C

SR2W-3C

SR2W-4C

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RG-8	RETURN AIR GRILLE, ALL-STEEL CONSTRUCTION, 1/3" SPACED FINS AT 20 DEGREES	22x16	20x14	HART AND COOLEY/ 650	BRIGHT WHITE FINISH
RG-9C	RETURN AIR GRILLE, ALL-STEEL CONSTRUCTION, 1/3" SPACED FINS AT 20 DEGREES	26x16	24x14	HART AND COOLEY/ 650	BRIGHT WHITE FINISH
RG-15	RETURN AIR GRILLE, ALL-STEEL CONSTRUCTION, 1/3" SPACED FINS AT 20 DEGREES	26x14	24x12	HART AND COOLEY/ 650	BRIGHT WHITE FINISH
RR-1	RETURN REGISTER, ALL-STEEL CONSTRUCTION, OPPOSED-BLADE DAMPER	10x6	8x4	HART AND COOLEY/ 92VHV	BRIGHT WHITE FINISH
SDG1W-1	ALUMINUM SINGLE DEFLECTION SPIRAL DIFFUSER	12x5	10x3	HART AND COOLEY/ SV	ADJUSTABLE DAMPER, BRIGHT WHITE FINISH
SR1W-1C	STEEL 1-WAY REGISTER, PLATE	10x6	8x4	HART AND COOLEY/ 651	ADJUSTABLE PLATE DAMPER, BRIGHT

WHITE FINISH

ADJUSTABLE PLATE DAMPER, BRIGHT

ADJUSTABLE PLATE DAMPER, BRIGHT

ADJUSTABLE PLATE DAMPER, BRIGHT

ADJUSTABLE DAMPER IN FACE, BRIGHT

ADJUSTABLE DAMPER IN FACE, BRIGHT

ADJUSTABLE DAMPER IN FACE, BRIGHT

STAIRHALL 200 10x8 **APARTMENT** 201 SR2W-1C

8x6

10x6

12x6

6x4

14x4

12x6

10x8

12x8

14x8

16x6

14x8

HART AND COOLEY/ 651

HART AND COOLEY/ 651

HART AND COOLEY/ 651

HART AND COOLEY/ 661

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- 9. DUCTED RETURN BETWEEN TRANSFER GRILLES TO AVOID EXPOSED WALL
- 10. ROUTE EXHAUST TO EXTERIOR WALL. INSTALL A LOUVERED VENT. SEE ARCHITECT BEFORE PENETRATION FOR EXACT LOCATION AND COLOR COORDINATION. ALL EXHAUST SHALL MEET THE FOLLOWING REQUIREMENTS.
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HVAC DESIGN CONDITIONS

COMMERCIAL		<u>RESIDENTIAL</u>	
COOLING	<u>HEATING</u>	COOLING	<u>HEATING</u>
OUTDOOR: 93 DB / 75 WB	OUTDOOR: 0 DB	OUTDOOR: 93 DB / 75 WB	OUTDOOR: 0 I
INDOOR: 72	INDOOR: 70	INDOOR: 75	INDOOR: 70

GENERAL NOTES

DIFFUSER LOCATIONS.

FLOOR/CEILING.

- A. FOR FULL SCHEDULES, SPECIFICATIONS, AND COMPLETE LISTING SEE DETAIL
- B. COORDINATE ROUTING OF ALL WORK WITH OTHER TRADES.
- C. COORDINATE WITH ELECTRICAL CONTRACTOR FOR POWER CONNECTIONS TO ALL MECHANICAL EQUIPMENT.
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- G. IN DWELLING UNITS, ROUTE ALL SUPPLY, RETURN, AND EXHAUST DUCTWORK ABOVE DROP CEILING OR IN BULKHEADS. COORDINATE ROUTING WITH ARCHITECTURAL DRAWINGS. DUCTS SHALL BE RUN BELOW THE RATED
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- MOUNT THERMOSTATS 60" ABOVE FINISHED FLOOR. MOUNT THERMOSTATS IN ADA UNITS 40" ABOVE FINISHED FLOOR.
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SYMBOLS L	EGEND — HVAC
Ū	THERMOSTAT
	CEILING DIFFUSER
→	SIDE WALL GRILL
-	RETURN WALL GRILL
← √_	AIR FLOW DIRECTION
14x10	DUCTWORK
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	TYPICAL RETURN DUCT DN
X	TYPICAL EXHAUST DUCT
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	DROPPED CEILING/SOFFIT



(PLAN REVIEW ONLY)

SEVERT E-77755

202 **W**

Progress Dates 04/28/2023 Permit

Revisions

Checked By: SSS

Drawn by: RPG



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DIFFUSER, GRILLE, AND REGISTER SCHEDULE

SR1W-1C

SR1W-3

SR1W-4

SR1W-5

SR2W-1C

SR2W-3C

SR2W-4C

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DIFFUSER

STEEL 1-WAY REGISTER, PLATE

STEEL 1-WAY REGISTER, PLATE

STEEL 1-WAY REGISTER, PLATE

STEEL 1-WAY REGISTER, PLATE

STEEL 2-WAY REGISTER, MS DAMPER,

STEEL 2-WAY REGISTER, MS DAMPER,

STEEL 2-WAY REGISTER, MS DAMPER,

DAMPER, 1/3" FIN SPACING

DAMPER, 1/3" FIN SPACING

DAMPER, 1/3" FIN SPACING

DAMPER, 1/3" FIN SPACING

1/3" FIN SPACING

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DVH-4	28 GAUGE GALVANIZED STEEL. PRE-PAINTED DRYER VENT.	6x7	4Ø	FAMCO DWVP	BACKDRAFT DAMPER/ANGLED HOOD.
EVH-4	28 GAUGE GALVANIZED STEEL. PRE-PAINTED EXHAUST VENT.	6x7	4Ø	FAMCO SDWVP	BACKDRAFT DAMPER/ANGLED HOOD. 1/4 INCH INSECT SCREEN.
EVH-6	28 GAUGE GALVANIZED STEEL. PRE-PAINTED EXHAUST VENT.	8x9	6Ø	FAMCO SDWVP	BACKDRAFT DAMPER/ANGLED HOOD. 1/4 INCH INSECT SCREEN.
IVH-6	28 GAUGE GALVANIZED STEEL. PRE-PAINTED INTAKE VENT.	8x9	6Ø	FAMCO SWVP	ANGLED HOOD.1/4 INCH INSECT SCREEN.
RG-8	RETURN AIR GRILLE, ALL-STEEL CONSTRUCTION, 1/3" SPACED FINS AT 20 DEGREES	22x16	20x14	HART AND COOLEY/ 650	BRIGHT WHITE FINISH
RG-9C	RETURN AIR GRILLE, ALL-STEEL CONSTRUCTION, 1/3" SPACED FINS AT 20 DEGREES	26x16	24x14	HART AND COOLEY/ 650	BRIGHT WHITE FINISH
RG-15	RETURN AIR GRILLE, ALL-STEEL CONSTRUCTION, 1/3" SPACED FINS AT 20 DEGREES	26x14	24x12	HART AND COOLEY/ 650	BRIGHT WHITE FINISH
RR-1	RETURN REGISTER, ALL-STEEL CONSTRUCTION, OPPOSED-BLADE DAMPER	10x6	8x4	HART AND COOLEY/ 92VHV	BRIGHT WHITE FINISH
SDG1W-1	ALUMINUM SINGLE DEFLECTION SPIRAL	12x5	10x3	HART AND COOLEY/ SV	ADJUSTABLE DAMPER, BRIGHT WHITE

HART AND COOLEY/ 651

HART AND COOLEY/ 651

HART AND COOLEY/ 651

HART AND COOLEY/ 651

HART AND COOLEY/ 661

HART AND COOLEY/ 661

HART AND COOLEY/ 661

ADJUSTABLE PLATE DAMPER, BRIGHT

ADJUSTABLE PLATE DAMPER, BRIGHT

ADJUSTABLE PLATE DAMPER, BRIGHT

ADJUSTABLE PLATE DAMPER, BRIGHT

ADJUSTABLE DAMPER IN FACE, BRIGHT

ADJUSTABLE DAMPER IN FACE, BRIGHT

ADJUSTABLE DAMPER IN FACE, BRIGHT

FINISH

WHITE FINISH

8x4

8x6

10x6

12x6

6x4

14x4

12x6

10x6

10x8

12x8

14x8

16x6

14x8

STAIRHALL 300 10x8 I-BEDROOM **APARTMENT** 301

KEYED SHEET NOTES

- ROUTE 3/4" CONDENSATE DRAIN LINE TO FLOOR DRAIN IN MECHANICAL CLOSET. SLOPE PIPE A MINIMUM OF 1/8 " PER FOOT AWAY FROM UNIT. ROUTE LINE SET FROM OUTDOOR UNIT TO INDOOR AIR HANDLER. ALL PIPING SHALL BE CONCEALED IN FINISHED AREA. SIZE PER MANUFACTURES
- RECOMMENDATIONS. ALL BASEMENTS SHALL BE VENTILATED AS STORAGE/WAREHOUSE SPACE IN ACCORDANCE WITH TABLE 403.3 OF THE 2017 OHIO MECHANICAL CODE AT A RATE OF 0.06 CFM PER SQUARE FOOT. PROVIDE NEW FAN IN BASEMENT FOR CODE MINIMUM OSA LISTED ABOVE.
- FRESH AIR INTAKE THRU WALL TO WALL CAP. 5. DUCT EXHAUST UP THROUGH ROOF WITH RAIN-PROOF CAP. 6. 4" EXHAUST DUCT TO BE ROUTED DIRECTLY TO ROOF, AS ALLOWED PER
- 717.6.1 EXCEPTION. DUCT MUST BE MINIMUM 26 GA. AND BE CONTAINED WITHIN WALL CAVITY FOR FULL LENGTH. FIRE CAULK AROUND ALL
- PENETRATIONS. REFER TO DETAIL. 6" EXHAUST TO BE ROUTED DIRECTLY TO ROOF, AS ALLOWED PER OBC 714.4.1
- FXCEPTION 1. UNDERCUT DOOR 1" ABOVE FINISHED FLOOR FOR RETURN/MAKE UP AIR.
- 9. DUCTED RETURN BETWEEN TRANSFER GRILLES TO AVOID EXPOSED WALL
- 10. ROUTE EXHAUST TO EXTERIOR WALL. INSTALL A LOUVERED VENT. SEE ARCHITECT BEFORE PENETRATION FOR EXACT LOCATION AND COLOR COORDINATION. ALL EXHAUST SHALL MEET THE FOLLOWING REQUIREMENTS.
- 10.1. 3' FROM PROPERTY LINE. 10.2. 3' FROM OPERABLE OPENINGS INTO BUILDING.
- 12.3 10' FROM MECHANICAL AIR INTAKE. 1. ROUTE 3/4" CONDENSATE DRAIN LINE TO FLOOR DRAIN IN BASEMENT. SLOPE
- PIPE A MINIMUM OF 1/8 " PER FOOT AWAY FROM UNIT. PROVIDE CONDENSATE PUMP AS REQUIRED. 12. DUCTED RETURN SLEEVE TO AVOID EXPOSED WALL CAVITY.
- 13. ROUTE EXHAUST DUCT UP IN JOIST POCKET. RATING SHALL BE MAINTAINED AROUND JOIST TO PREVENT FIRE DAMPER. REFER TO ARCHITECTURAL PLANS

MECHANICAL SCOPE OF WORK (PLAN REVIEW ONLY)

MECHANICAL SCOPE OF WORK IS TO PROVIDE NEW HVAC EQUIPMENT TO RESIDENTIAL SPACES. MECHANICAL CONTRACTOR SHALL REFERENCE ALL DISCIPLINE DRAWING, ETC. TO REVEAL FULL SCOPE OF WORK, REFER TO MECHANICAL SPECIFICATIONS FOR ADDITIONAL DETAILS.

HVAC DESIGN CONDITIONS

COOLING
OUTDOOR: 93 DB / 75 WBHEATING
OUTDOOR: 0 DB
INDOOR: 70COOLING
OUTDOOR: 93 DB / 75 WBHEATING
OUTDOOR: 0 DB
INDOOR: 75INDOOR: 72INDOOR: 70INDOOR: 75INDOOR: 70

GENERAL NOTES

ALL MECHANICAL EQUIPMENT.

FLOOR/CEILING.

- A. FOR FULL SCHEDULES, SPECIFICATIONS, AND COMPLETE LISTING SEE DETAIL
- B. COORDINATE ROUTING OF ALL WORK WITH OTHER TRADES. C. COORDINATE WITH ELECTRICAL CONTRACTOR FOR POWER CONNECTIONS TO
-). INSTALL ALL EQUIPMENT PER MANUFACTURER'S REQUIREMENTS. MAINTAIN ALL
- CODE RECOMMENDED CLEARANCES FOR ACCESS AND MAINTENANCE.
- REFER TO ARCHITECTURAL PLANS FOR DIMENSIONS, AND FINAL CEILING DIFFUSER LOCATIONS.
- PROVIDE BACKDRAFT DAMPERS FOR ALL EXHAUST SYSTEMS AND EITHER LOUVER, BRICK VENT, OR CAPS AT ALL EXTERIOR BUILDING PENETRATIONS.
- G. IN DWELLING UNITS. ROUTE ALL SUPPLY. RETURN. AND EXHAUST DUCTWORK ABOVE DROP CEILING OR IN BULKHEADS. COORDINATE ROUTING WITH ARCHITECTURAL DRAWINGS. DUCTS SHALL BE RUN BELOW THE RATED
- H. 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 OHIO MECHANICAL CODE.
- MOUNT THERMOSTATS 60" ABOVE FINISHED FLOOR. MOUNT THERMOSTATS IN ADA UNITS 40" ABOVE FINISHED FLOOR.
- 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.
- . MATERIALS WITHIN PLENUMS SHALL BE NONCOMBUSTIBLE OR SHALL BE LISTED AND LABLED AS HAVING A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM E 84 OR UL 723.
- . THE FOLLOWING GUIDELINES MUST BE FOLLOWED FOR THE DOMESTIC DRYER EXHAUST SYSTEMS.
- J.A. EXHAUST DUCTS SHALL HAVE A SMOOTH INTERIOR FINISH AND BE CONSTRUCTED OF METAL A MINIMUM OF 28 GAGE.
- J.B. DUCT SIZE SHALL BE 4 INCHES NOMINAL DIAMETER. J.C. DUCTS SHALL BE SUPPORTED AT 4-FOOT INTERVALS AND SECURED IN PLACE. THE INSERT END OF THE DUCT SHALL EXTEND INTO THE ADJOINING
- DUCT OR FITTING IN THE DIRECTION OF AIRFLOW. J.D. DUCTS SHALL NOT BE JOINED WITH SCREWS OF SIMILAR FASTENERS THAT PROTRUDE MORE THAN \$\frac{1}{8}\$ INCH INTO THE INSIDE OF THE DUCT.
- J.E. PROTECTIVE SHIELD PLATES SHALL BE PLACED WHERE NAILS OR SCREWS FROM FINISH OR OTHER WORK ARE LIKELY TO PENETRATE THE CLOTHES DRYER EXHAUST DUCT. SHIELD PLATES SHALL BE PLACED ON THE FINISHED FACE OF ALL FRAMING MEMBERS WHERE THERE IS LESS THAN 1-1/4 INCHES BETWEEN THE DUCT AND THE FINISHED FACE OF THE FRAMING MEMBER SHIELD PLATES SHALL BE CONSTRUCTED OF STEEL, HAVE A THICKNESS OF 0.062 INCHES, AND EXTEND NOT LESS THAN 2 INCHES ABOVE SOLE PLATES AND BELOW TOP PLATES.
- J.F. TRANSITION DUCTS USED TO CONNECT THE DRYER TO THE EXHAUST DUCT SYSTEM SHALL BE A SINGLE LENGTH THAT IS LISTED AND LABELED IN ACCORDANCE WITH UL 2158A. TRANSITION DUCTS SHALL BE NOT GREATER THAN 8 FEET IN LENGTH AND SHALL NOT BE CONCEALED WITHIN
- CONSTRUCTION. J.G. PROVIDE DRYER WALL BOX EQUAL TO DUNDAS JAFINE MODEL DRB4XZW
- NEAR DRYER. J.H. PROVIDE A PERMANENT LABEL OR TAG (EQUAL TO DRYERPLACARD) INDICATING ACTUAL EQUIVALENT LENGTH OF EXHAUST DUCT. LENGTH SHALL INCLUDE 5' FOR 90 . LABEL/TAG MUST BE WITHIN 6' OF DRYER EXHAUST CONNECTION. DRYER EXHAUST DUCT FITTING EQUIVALENT LENGTH SHALL BE 2'-6" FOR A RADIUS MITERED 45-DEGREE ELBOW AND 5 FEET FOR A RADIUS MITERED 90-DEGREE ELBOW.

SYMBOLS L	EGEND — HVAC
Ū	THERMOSTAT
	CEILING DIFFUSER
->	SIDE WALL GRILL
-\-	RETURN WALL GRILL
- \\-	AIR FLOW DIRECTION
14x10	DUCTWORK
	TYPICAL SUPPLY DUCT DN
	TYPICAL RETURN DUCT DN
X	TYPICAL EXHAUST DUCT
ردم	TURNING VANES
	FLEXIBLE DUCT, 8'-0" LONG MAX.
<u> </u>	TYPICAL ROUND DUCT DN
	ROUND DUCT UP
	MVD MANUAL VOLUME DAMPER
	DROPPED CEILING/SOFFIT



SEVERT E-77755

202 **W**

Progress Dates 04/28/2023 Permit

Revisions

Checked By: SSS Drawn by: RPG



TEAMWORK • COLLABORATION SHARED SUCCESS 515 Monmouth Street, Suite 204 Newport, KY 41071 (859) 261-0585

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UBL

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DIFFUSER, GRILLE, AND REGISTER SCHEDULE

DAMPER, 1/3" FIN SPACING

DAMPER, 1/3" FIN SPACING

DAMPER, 1/3" FIN SPACING

DAMPER, 1/3" FIN SPACING

1/3" FIN SPACING

1/3" FIN SPACING

1/3" FIN SPACING

SR1W-4

SR1W-5

SR2W-1C

SR2W-3C

SR2W-4C

STEEL 1-WAY REGISTER, PLATE

STEEL 1-WAY REGISTER, PLATE

STEEL 1-WAY REGISTER, PLATE

STEEL 2-WAY REGISTER, MS DAMPER,

STEEL 2-WAY REGISTER, MS DAMPER,

STEEL 2-WAY REGISTER, MS DAMPER,

CALLOUT	DESCRIPTION	FACE SIZE (IN)	INLET SIZE (IN)	MODEL	NOTES
DTG-1	RETURN AIR GRILLE, ALL-STEEL CONSTRUCTION, 1/3" SPACED FINS AT 20 DEGREES	18x12	16x10	HART AND COOLEY/ 650	BRIGHT WHITE FINISH
DTG-1C	RETURN AIR GRILLE, ALL-STEEL CONSTRUCTION, 1/3" SPACED FINS AT 20 DEGREES	18x12	16x10	HART AND COOLEY/ 650	BRIGHT WHITE FINISH
DVH-4	28 GAUGE GALVANIZED STEEL. PRE-PAINTED DRYER VENT.	6x7	4Ø	FAMCO DWVP	BACKDRAFT DAMPER/ANGLED HOOD.
EVH-4	28 GAUGE GALVANIZED STEEL. PRE-PAINTED EXHAUST VENT.	6x7	4Ø	FAMCO SDWVP	BACKDRAFT DAMPER/ANGLED HOOD. 1/4 INCH INSECT SCREEN.
EVH-6	28 GAUGE GALVANIZED STEEL. PRE-PAINTED EXHAUST VENT.	8x9	6Ø	FAMCO SDWVP	BACKDRAFT DAMPER/ANGLED HOOD. 1/4 INCH INSECT SCREEN.
IVH-6	28 GAUGE GALVANIZED STEEL. PRE-PAINTED INTAKE VENT.	8x9	6Ø	FAMCO SWVP	ANGLED HOOD.1/4 INCH INSECT SCREEN.
RG-8	RETURN AIR GRILLE, ALL-STEEL CONSTRUCTION, 1/3" SPACED FINS AT 20 DEGREES	22x16	20x14	HART AND COOLEY/ 650	BRIGHT WHITE FINISH
RG-9C	RETURN AIR GRILLE, ALL-STEEL CONSTRUCTION, 1/3" SPACED FINS AT 20 DEGREES	26x16	24x14	HART AND COOLEY/ 650	BRIGHT WHITE FINISH
RG-15	RETURN AIR GRILLE, ALL-STEEL CONSTRUCTION, 1/3" SPACED FINS AT 20 DEGREES	26x14	24x12	HART AND COOLEY/ 650	BRIGHT WHITE FINISH
RR-1	RETURN REGISTER, ALL-STEEL CONSTRUCTION, OPPOSED-BLADE DAMPER	10x6	8x4	HART AND COOLEY/ 92VHV	BRIGHT WHITE FINISH
SDG1W-1	ALUMINUM SINGLE DEFLECTION SPIRAL DIFFUSER	12x5	10x3	HART AND COOLEY/ SV	ADJUSTABLE DAMPER, BRIGHT WHITE FINISH
SR1W-1C	STEEL 1-WAY REGISTER, PLATE	10x6	8x4	HART AND COOLEY/ 651	ADJUSTABLE PLATE DAMPER, BRIGHT

HART AND COOLEY/ 651

HART AND COOLEY/ 651

HART AND COOLEY/ 651

HART AND COOLEY/ 661

HART AND COOLEY/ 661

HART AND COOLEY/ 661

8x6

10x6

12x6

6x4

14x4

12x6

10x8

12x8

14x8

16x6

14x8

WHITE FINISH

ADJUSTABLE PLATE DAMPER, BRIGHT

ADJUSTABLE PLATE DAMPER, BRIGHT

ADJUSTABLE PLATE DAMPER, BRIGHT

ADJUSTABLE DAMPER IN FACE, BRIGHT

ADJUSTABLE DAMPER IN FACE, BRIGHT

ADJUSTABLE DAMPER IN FACE, BRIGHT

STAIRHALL **APARTMENT**

- ROUTE 3/4" CONDENSATE DRAIN LINE TO FLOOR DRAIN IN MECHANICAL CLOSET. SLOPE PIPE A MINIMUM OF 1/8 " PER FOOT AWAY FROM UNIT. ROUTE LINE SET FROM OUTDOOR UNIT TO INDOOR AIR HANDLER. ALL PIPING SHALL BE CONCEALED IN FINISHED AREA. SIZE PER MANUFACTURES
- RECOMMENDATIONS. ALL BASEMENTS SHALL BE VENTILATED AS STORAGE/WAREHOUSE SPACE IN ACCORDANCE WITH TABLE 403.3 OF THE 2017 OHIO MECHANICAL CODE AT A RATE OF 0.06 CFM PER SQUARE FOOT. PROVIDE NEW FAN IN BASEMENT FOR CODE MINIMUM OSA LISTED ABOVE.
- FRESH AIR INTAKE THRU WALL TO WALL CAP. 5. DUCT EXHAUST UP THROUGH ROOF WITH RAIN-PROOF CAP.
- 6. 4" EXHAUST DUCT TO BE ROUTED DIRECTLY TO ROOF, AS ALLOWED PER 717.6.1 EXCEPTION. DUCT MUST BE MINIMUM 26 GA. AND BE CONTAINED WITHIN WALL CAVITY FOR FULL LENGTH. FIRE CAULK AROUND ALL
- PENETRATIONS. REFER TO DETAIL. 6" EXHAUST TO BE ROUTED DIRECTLY TO ROOF, AS ALLOWED PER OBC 714.4.1
- FXCEPTION 1. UNDERCUT DOOR 1" ABOVE FINISHED FLOOR FOR RETURN/MAKE UP AIR.
- 9. DUCTED RETURN BETWEEN TRANSFER GRILLES TO AVOID EXPOSED WALL
- 10. ROUTE EXHAUST TO EXTERIOR WALL. INSTALL A LOUVERED VENT. SEE ARCHITECT BEFORE PENETRATION FOR EXACT LOCATION AND COLOR COORDINATION. ALL EXHAUST SHALL MEET THE FOLLOWING REQUIREMENTS.
- 10.1. 3' FROM PROPERTY LINE. 10.2. 3' FROM OPERABLE OPENINGS INTO BUILDING.
- 12.3 10' FROM MECHANICAL AIR INTAKE.
- 1. ROUTE 3/4" CONDENSATE DRAIN LINE TO FLOOR DRAIN IN BASEMENT. SLOPE PIPE A MINIMUM OF 1/8 " PER FOOT AWAY FROM UNIT. PROVIDE CONDENSATE PUMP AS REQUIRED.
- 2. DUCTED RETURN SLEEVE TO AVOID EXPOSED WALL CAVITY. 13. ROUTE EXHAUST DUCT UP IN JOIST POCKET. RATING SHALL BE MAINTAINED
- AROUND JOIST TO PREVENT FIRE DAMPER. REFER TO ARCHITECTURAL PLANS

MECHANICAL SCOPE OF WORK IS TO PROVIDE NEW HVAC EQUIPMENT TO RESIDENTIAL SPACES. MECHANICAL CONTRACTOR SHALL REFERENCE ALL DISCIPLINE DRAWING, ETC. TO REVEAL FULL SCOPE OF WORK, REFER TO MECHANICAL SPECIFICATIONS FOR ADDITIONAL DETAILS.

HVAC DESIGN CONDITIONS

COMMERCIAL		RESIDENTIAL	
COOLING	HEATING	COOLING	HEATING
OUTDOOR: 93 DB / 75 WB	OUTDOOR: 0 DB	OUTDOOR: 93 DB / 75 WB	OUTDOOR: 0
INDOOR: 72	INDOOR: 70	INDOOR: 75	INDOOR: 70

GENERAL NOTES

DIFFUSER LOCATIONS.

- A. FOR FULL SCHEDULES, SPECIFICATIONS, AND COMPLETE LISTING SEE DETAIL
- B. COORDINATE ROUTING OF ALL WORK WITH OTHER TRADES.

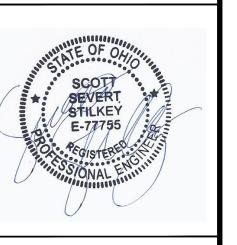
C. COORDINATE WITH ELECTRICAL CONTRACTOR FOR POWER CONNECTIONS TO

- ALL MECHANICAL EQUIPMENT.
-). INSTALL ALL EQUIPMENT PER MANUFACTURER'S REQUIREMENTS. MAINTAIN ALL CODE RECOMMENDED CLEARANCES FOR ACCESS AND MAINTENANCE.
- REFER TO ARCHITECTURAL PLANS FOR DIMENSIONS, AND FINAL CEILING
- PROVIDE BACKDRAFT DAMPERS FOR ALL EXHAUST SYSTEMS AND EITHER LOUVER, BRICK VENT, OR CAPS AT ALL EXTERIOR BUILDING PENETRATIONS.
- G. IN DWELLING UNITS, ROUTE ALL SUPPLY, RETURN, AND EXHAUST DUCTWORK ABOVE DROP CEILING OR IN BULKHEADS. COORDINATE ROUTING WITH ARCHITECTURAL DRAWINGS. DUCTS SHALL BE RUN BELOW THE RATED
- H. 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 OHIO MECHANICAL CODE.
- MOUNT THERMOSTATS 60" ABOVE FINISHED FLOOR. MOUNT THERMOSTATS IN ADA UNITS 40" ABOVE FINISHED FLOOR.
- 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.
- . MATERIALS WITHIN PLENUMS SHALL BE NONCOMBUSTIBLE OR SHALL BE LISTED AND LABLED AS HAVING A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM E 84 OR UL 723.
- . THE FOLLOWING GUIDELINES MUST BE FOLLOWED FOR THE DOMESTIC DRYER EXHAUST SYSTEMS.
- J.A. EXHAUST DUCTS SHALL HAVE A SMOOTH INTERIOR FINISH AND BE CONSTRUCTED OF METAL A MINIMUM OF 28 GAGE.
- J.B. DUCT SIZE SHALL BE 4 INCHES NOMINAL DIAMETER. J.C. DUCTS SHALL BE SUPPORTED AT 4-FOOT INTERVALS AND SECURED IN PLACE. THE INSERT END OF THE DUCT SHALL EXTEND INTO THE ADJOINING
- DUCT OR FITTING IN THE DIRECTION OF AIRFLOW. J.D. DUCTS SHALL NOT BE JOINED WITH SCREWS OF SIMILAR FASTENERS THAT
- PROTRUDE MORE THAN 1 INCH INTO THE INSIDE OF THE DUCT. J.E. PROTECTIVE SHIELD PLATES SHALL BE PLACED WHERE NAILS OR SCREWS FROM FINISH OR OTHER WORK ARE LIKELY TO PENETRATE THE CLOTHES DRYER EXHAUST DUCT. SHIELD PLATES SHALL BE PLACED ON THE FINISHED FACE OF ALL FRAMING MEMBERS WHERE THERE IS LESS THAN 1-1/4 INCHES BETWEEN THE DUCT AND THE FINISHED FACE OF THE FRAMING MEMBER SHIELD PLATES SHALL BE CONSTRUCTED OF STEEL, HAVE A THICKNESS OF 0.062 INCHES, AND EXTEND NOT LESS THAN 2 INCHES ABOVE SOLE PLATES
- AND BELOW TOP PLATES. J.F. TRANSITION DUCTS USED TO CONNECT THE DRYER TO THE EXHAUST DUCT SYSTEM SHALL BE A SINGLE LENGTH THAT IS LISTED AND LABELED IN ACCORDANCE WITH UL 2158A. TRANSITION DUCTS SHALL BE NOT GREATER THAN 8 FEET IN LENGTH AND SHALL NOT BE CONCEALED WITHIN CONSTRUCTION.
- J.G. PROVIDE DRYER WALL BOX EQUAL TO DUNDAS JAFINE MODEL DRB4XZW
- NEAR DRYER. J.H. PROVIDE A PERMANENT LABEL OR TAG (EQUAL TO DRYERPLACARD) INDICATING ACTUAL EQUIVALENT LENGTH OF EXHAUST DUCT. LENGTH SHALL INCLUDE 5' FOR 90 . LABEL/TAG MUST BE WITHIN 6' OF DRYER EXHAUST CONNECTION. DRYER EXHAUST DUCT FITTING EQUIVALENT LENGTH SHALL BE 2'-6" FOR A RADIUS MITERED 45-DEGREE ELBOW AND 5 FEET FOR A RADIUS MITERED 90-DEGREE ELBOW.

SYMBOLS LI	EGEND — HVAC
T	THERMOSTAT
\boxtimes	CEILING DIFFUSER
→	SIDE WALL GRILL
- \-	RETURN WALL GRILL
-√-	AIR FLOW DIRECTION
14x10	DUCTWORK
	TYPICAL SUPPLY DUCT DN
	TYPICAL RETURN DUCT DN
N N	TYPICAL EXHAUST DUCT
رده	TURNING VANES
	FLEXIBLE DUCT, 8'-0" LONG MAX.
<u> </u>	TYPICAL ROUND DUCT DN
	ROUND DUCT UP
	MVD MANUAL VOLUME DAMPER
	DROPPED CEILING/SOFFIT



MECHANICAL SCOPE OF WORK (PLAN REVIEW ONLY)



202 W

Progress Dates 04/28/2023 Permit

Revisions

Checked By: SSS



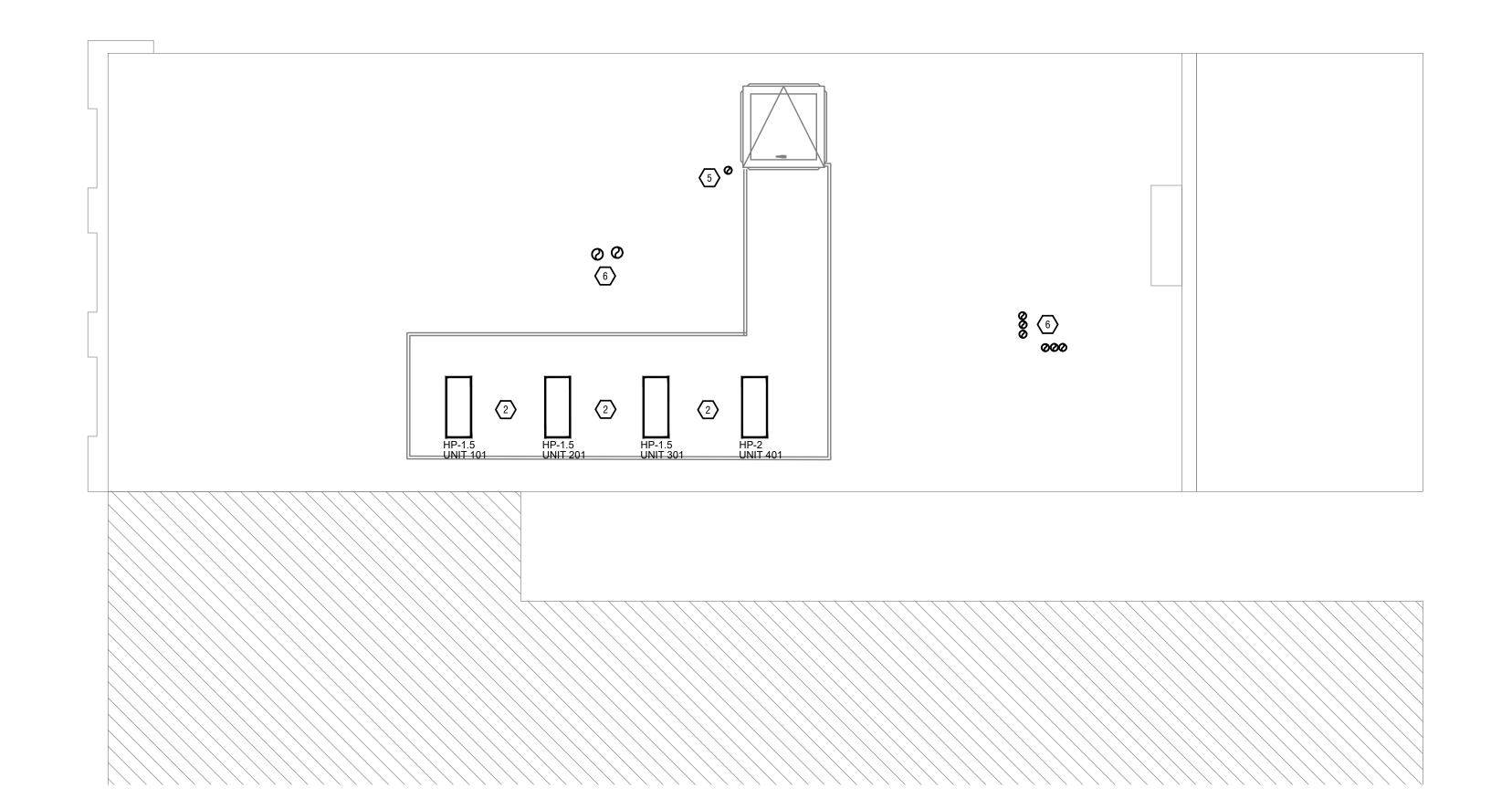
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CALLOUT	DESCRIPTION	FACE SIZE (IN)	INLET SIZE (IN)	MODEL	NOTES
DTG-1	RETURN AIR GRILLE, ALL-STEEL CONSTRUCTION, 1/3" SPACED FINS AT 20 DEGREES	18x12	16x10	HART AND COOLEY/ 650	BRIGHT WHITE FINISH
DTG-1C	RETURN AIR GRILLE, ALL-STEEL CONSTRUCTION, 1/3" SPACED FINS AT 20 DEGREES	18x12	16x10	HART AND COOLEY/ 650	BRIGHT WHITE FINISH
DVH-4	28 GAUGE GALVANIZED STEEL. PRE-PAINTED DRYER VENT.	6x7	4Ø	FAMCO DWVP	BACKDRAFT DAMPER/ANGLED HOOD.
EVH-4	28 GAUGE GALVANIZED STEEL. PRE-PAINTED EXHAUST VENT.	6x7	4Ø	FAMCO SDWVP	BACKDRAFT DAMPER/ANGLED HOOD. 1/4 INCH INSECT SCREEN.
EVH-6	28 GAUGE GALVANIZED STEEL. PRE-PAINTED EXHAUST VENT.	8x9	6Ø	FAMCO SDWVP	BACKDRAFT DAMPER/ANGLED HOOD. 1/4 INCH INSECT SCREEN.
VH-6	28 GAUGE GALVANIZED STEEL. PRE-PAINTED INTAKE VENT.	8x9	6Ø	FAMCO SWVP	ANGLED HOOD.1/4 INCH INSECT SCREEN.
RG-8	RETURN AIR GRILLE, ALL-STEEL CONSTRUCTION, 1/3" SPACED FINS AT 20 DEGREES	22x16	20x14	HART AND COOLEY/ 650	BRIGHT WHITE FINISH
RG-9C	RETURN AIR GRILLE, ALL-STEEL CONSTRUCTION, 1/3" SPACED FINS AT 20 DEGREES	26x16	24x14	HART AND COOLEY/ 650	BRIGHT WHITE FINISH
RG-15	RETURN AIR GRILLE, ALL-STEEL CONSTRUCTION, 1/3" SPACED FINS AT 20 DEGREES	26x14	24x12	HART AND COOLEY/ 650	BRIGHT WHITE FINISH
RR-1	RETURN REGISTER, ALL-STEEL CONSTRUCTION, OPPOSED-BLADE DAMPER	10x6	8x4	HART AND COOLEY/ 92VHV	BRIGHT WHITE FINISH
SDG1W-1	ALUMINUM SINGLE DEFLECTION SPIRAL DIFFUSER	12x5	10x3	HART AND COOLEY/ SV	ADJUSTABLE DAMPER, BRIGHT WHITE FINISH
SR1W-1C	STEEL 1-WAY REGISTER, PLATE DAMPER, 1/3" FIN SPACING	10x6	8x4	HART AND COOLEY/ 651	ADJUSTABLE PLATE DAMPER, BRIGHT WHITE FINISH
SR1W-3	STEEL 1-WAY REGISTER, PLATE DAMPER, 1/3" FIN SPACING	10x8	8x6	HART AND COOLEY/ 651	ADJUSTABLE PLATE DAMPER, BRIGHT WHITE FINISH
SR1W-4	STEEL 1-WAY REGISTER, PLATE DAMPER, 1/3" FIN SPACING	12x8	10x6	HART AND COOLEY/ 651	ADJUSTABLE PLATE DAMPER, BRIGHT WHITE FINISH
SR1W-5	STEEL 1-WAY REGISTER, PLATE DAMPER, 1/3" FIN SPACING	14x8	12x6	HART AND COOLEY/ 651	ADJUSTABLE PLATE DAMPER, BRIGHT WHITE FINISH
SR2W-1C	STEEL 2-WAY REGISTER, MS DAMPER, 1/3" FIN SPACING	8x6	6x4	HART AND COOLEY/ 661	ADJUSTABLE DAMPER IN FACE, BRIGHT WHITE FINISH
SR2W-3C	STEEL 2-WAY REGISTER, MS DAMPER, 1/3" FIN SPACING	16x6	14x4	HART AND COOLEY/ 661	ADJUSTABLE DAMPER IN FACE, BRIGHT WHITE FINISH
SR2W-4C	STEEL 2-WAY REGISTER, MS DAMPER,	14x8	12x6	HART AND COOLEY/ 661	ADJUSTABLE DAMPER IN FACE, BRIGHT

WHITE FINISH



1/3" FIN SPACING

Z:\~Project Directories\9700–9799\9757 – Findlay Flats Findlay Parkside (Willkommen ? Phase II)\~Construction Documents\~Phase 1 (8 Buildings)\1806 REPUBLIC\9757⊸NTHESE DRAWINGS HAVE BEEN PREP/ THESE DRAWINGS AND SPECIFICATIONS ARE NOT AUTHORIZED TO BE USED AS CONTRACT DOCUMENTS. THESE DRAWINGS HAVE BEEN PREP/ TO DETERMINE CODE COMPLIANCE. THE INSTALLING CONTRACTOR IS RESPONSIBLE TO ENSURE THAT MEANS, METHODS, AND MATERIALS USI GENERAL CONTRACTOR, ETC.

★ KEYED SHEET NOTES

- ROUTE 3/4" CONDENSATE DRAIN LINE TO FLOOR DRAIN IN MECHANICAL CLOSET. SLOPE PIPE A MINIMUM OF 1/8 " PER FOOT AWAY FROM UNIT. ROUTE LINE SET FROM OUTDOOR UNIT TO INDOOR AIR HANDLER. ALL PIPING SHALL BE CONCEALED IN FINISHED AREA. SIZE PER MANUFACTURES
- RECOMMENDATIONS. ALL BASEMENTS SHALL BE VENTILATED AS STORAGE/WAREHOUSE SPACE IN ACCORDANCE WITH TABLE 403.3 OF THE 2017 OHIO MECHANICAL CODE AT A RATE OF 0.06 CFM PER SQUARE FOOT. PROVIDE NEW FAN IN BASEMENT FOR CODE MINIMUM OSA LISTED ABOVE.
- FRESH AIR INTAKE THRU WALL TO WALL CAP. 5. DUCT EXHAUST UP THROUGH ROOF WITH RAIN-PROOF CAP. 6. 4" EXHAUST DUCT TO BE ROUTED DIRECTLY TO ROOF, AS ALLOWED PER
- 717.6.1 EXCEPTION. DUCT MUST BE MINIMUM 26 GA. AND BE CONTAINED WITHIN WALL CAVITY FOR FULL LENGTH. FIRE CAULK AROUND ALL PENETRATIONS. REFER TO DETAIL.
- 6" EXHAUST TO BE ROUTED DIRECTLY TO ROOF, AS ALLOWED PER OBC 714.4.1 EXCEPTION 1.
- UNDERCUT DOOR 1" ABOVE FINISHED FLOOR FOR RETURN/MAKE UP AIR. 9. DUCTED RETURN BETWEEN TRANSFER GRILLES TO AVOID EXPOSED WALL
- 10. ROUTE EXHAUST TO EXTERIOR WALL. INSTALL A LOUVERED VENT. SEE
- ARCHITECT BEFORE PENETRATION FOR EXACT LOCATION AND COLOR COORDINATION. ALL EXHAUST SHALL MEET THE FOLLOWING REQUIREMENTS.
- 10.1. 3' FROM PROPERTY LINE. 10.2. 3' FROM OPERABLE OPENINGS INTO BUILDING.
- 12.3 10' FROM MECHANICAL AIR INTAKE.
- 1. ROUTE 3/4" CONDENSATE DRAIN LINE TO FLOOR DRAIN IN BASEMENT. SLOPE PIPE A MINIMUM OF 1/8 " PER FOOT AWAY FROM UNIT. PROVIDE CONDENSATE PUMP AS REQUIRED.
- 2. DUCTED RETURN SLEEVE TO AVOID EXPOSED WALL CAVITY.
- 13. ROUTE EXHAUST DUCT UP IN JOIST POCKET. RATING SHALL BE MAINTAINED AROUND JOIST TO PREVENT FIRE DAMPER. REFER TO ARCHITECTURAL PLANS FOR DETAILS.

MECHANICAL SCOPE OF WORK (PLAN REVIEW ONLY)

RESIDENTIAL SPACES. MECHANICAL CONTRACTOR SHALL REFERENCE ALL DISCIPLINE DRAWING, ETC. TO REVEAL FULL SCOPE OF WORK. REFER TO MECHANICAL SPECIFICATIONS FOR ADDITIONAL DETAILS.

HVAC DESIGN CONDITIONS

COMMERCIAL	•	RESIDENTIAL	
COOLING	<u>HEATING</u>	COOLING	<u>HEATING</u>
OUTDOOR: 93 DB / 75 WB	OUTDOOR: 0 DB	OUTDOOR: 93 DB / 75 WB	OUTDOOR: 0
INDOOR: 72	INDOOR: 70	INDOOR: 75	INDOOR: 70

GENERAL NOTES

DIFFUSER LOCATIONS.

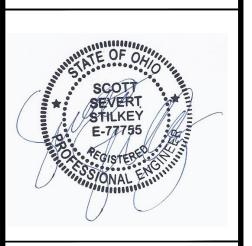
FLOOR/CEILING.

- A. FOR FULL SCHEDULES, SPECIFICATIONS, AND COMPLETE LISTING SEE DETAIL
- B. COORDINATE ROUTING OF ALL WORK WITH OTHER TRADES.
- C. COORDINATE WITH ELECTRICAL CONTRACTOR FOR POWER CONNECTIONS TO ALL MECHANICAL EQUIPMENT.
- . INSTALL ALL EQUIPMENT PER MANUFACTURER'S REQUIREMENTS. MAINTAIN ALL CODE RECOMMENDED CLEARANCES FOR ACCESS AND MAINTENANCE.
- REFER TO ARCHITECTURAL PLANS FOR DIMENSIONS, AND FINAL CEILING
- PROVIDE BACKDRAFT DAMPERS FOR ALL EXHAUST SYSTEMS AND EITHER LOUVER, BRICK VENT, OR CAPS AT ALL EXTERIOR BUILDING PENETRATIONS.
- G. IN DWELLING UNITS, ROUTE ALL SUPPLY, RETURN, AND EXHAUST DUCTWORK ABOVE DROP CEILING OR IN BULKHEADS. COORDINATE ROUTING WITH ARCHITECTURAL DRAWINGS. DUCTS SHALL BE RUN BELOW THE RATED
- H. 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 OHIO MECHANICAL CODE.
- MOUNT THERMOSTATS 60" ABOVE FINISHED FLOOR. MOUNT THERMOSTATS IN ADA UNITS 40" ABOVE FINISHED FLOOR.
- . 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.
- . MATERIALS WITHIN PLENUMS SHALL BE NONCOMBUSTIBLE OR SHALL BE LISTED AND LABLED AS HAVING A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM E 84 OR UL 723.
- . THE FOLLOWING GUIDELINES MUST BE FOLLOWED FOR THE DOMESTIC DRYER EXHAUST SYSTEMS.
- J.A. EXHAUST DUCTS SHALL HAVE A SMOOTH INTERIOR FINISH AND BE CONSTRUCTED OF METAL A MINIMUM OF 28 GAGE.
- J.B. DUCT SIZE SHALL BE 4 INCHES NOMINAL DIAMETER. J.C. DUCTS SHALL BE SUPPORTED AT 4-FOOT INTERVALS AND SECURED IN PLACE. THE INSERT END OF THE DUCT SHALL EXTEND INTO THE ADJOINING
- DUCT OR FITTING IN THE DIRECTION OF AIRFLOW. J.D. DUCTS SHALL NOT BE JOINED WITH SCREWS OF SIMILAR FASTENERS THAT
- PROTRUDE MORE THAN \$\frac{1}{8}\$ INCH INTO THE INSIDE OF THE DUCT. J.E. PROTECTIVE SHIELD PLATES SHALL BE PLACED WHERE NAILS OR SCREWS FROM FINISH OR OTHER WORK ARE LIKELY TO PENETRATE THE CLOTHES DRYER EXHAUST DUCT.SHIELD PLATES SHALL BE PLACED ON THE FINISHED FACE OF ALL FRAMING MEMBERS WHERE THERE IS LESS THAN 1-1/4 INCHES BETWEEN THE DUCT AND THE FINISHED FACE OF THE FRAMING MEMBER SHIELD PLATES SHALL BE CONSTRUCTED OF STEEL, HAVE A THICKNESS OF 0.062 INCHES, AND EXTEND NOT LESS THAN 2 INCHES ABOVE SOLE PLATES
- AND BELOW TOP PLATES. J.F. TRANSITION DUCTS USED TO CONNECT THE DRYER TO THE EXHAUST DUCT SYSTEM SHALL BE A SINGLE LENGTH THAT IS LISTED AND LABELED IN ACCORDANCE WITH UL 2158A. TRANSITION DUCTS SHALL BE NOT GREATER THAN 8 FEET IN LENGTH AND SHALL NOT BE CONCEALED WITHIN CONSTRUCTION.
- J.G. PROVIDE DRYER WALL BOX EQUAL TO DUNDAS JAFINE MODEL DRB4XZW
- NEAR DRYER. J.H. PROVIDE A PERMANENT LABEL OR TAG (EQUAL TO DRYERPLACARD) INDICATING ACTUAL EQUIVALENT LENGTH OF EXHAUST DUCT. LENGTH SHALL INCLUDE 5' FOR 90 . LABEL/TAG MUST BE WITHIN 6' OF DRYER EXHAUST CONNECTION. DRYER EXHAUST DUCT FITTING EQUIVALENT LENGTH SHALL BE 2'-6" FOR A RADIUS MITERED 45-DEGREE ELBOW AND 5 FEET FOR A RADIUS MITERED 90-DEGREE ELBOW.

SYMBOLS L	EGEND — HVAC						
T	THERMOSTAT						
	CEILING DIFFUSER						
→	SIDE WALL GRILL						
« \-	RETURN WALL GRILL						
← √—	AIR FLOW DIRECTION						
14x10	DUCTWORK						
	TYPICAL SUPPLY DUCT DN						
	TYPICAL RETURN DUCT DN						
N N	TYPICAL EXHAUST DUCT						
ردرع	TURNING VANES						
\boxtimes ~~	FLEXIBLE DUCT, 8'-0" LONG MAX.						
<u></u>	TYPICAL ROUND DUCT DN						
	ROUND DUCT UP						
	MVD MANUAL VOLUME DAMPER						
	DROPPED CEILING/SOFFIT						



MECHANICAL SCOPE OF WORK IS TO PROVIDE NEW HVAC EQUIPMENT TO



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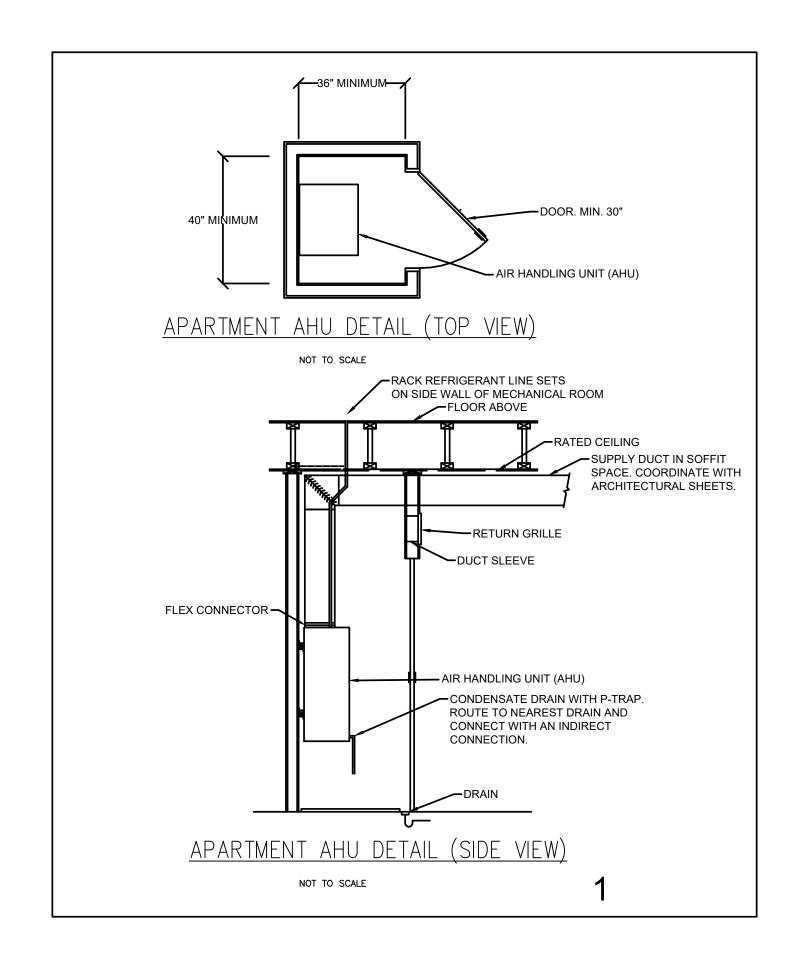


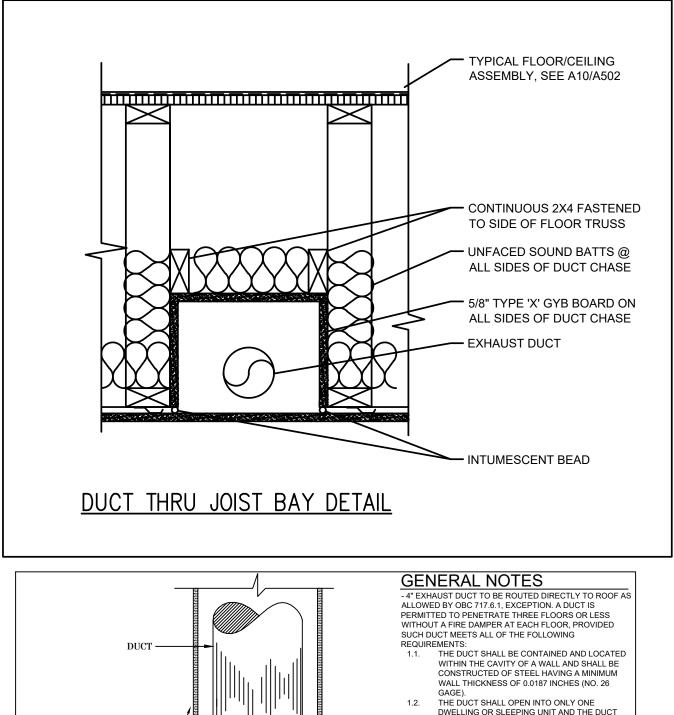
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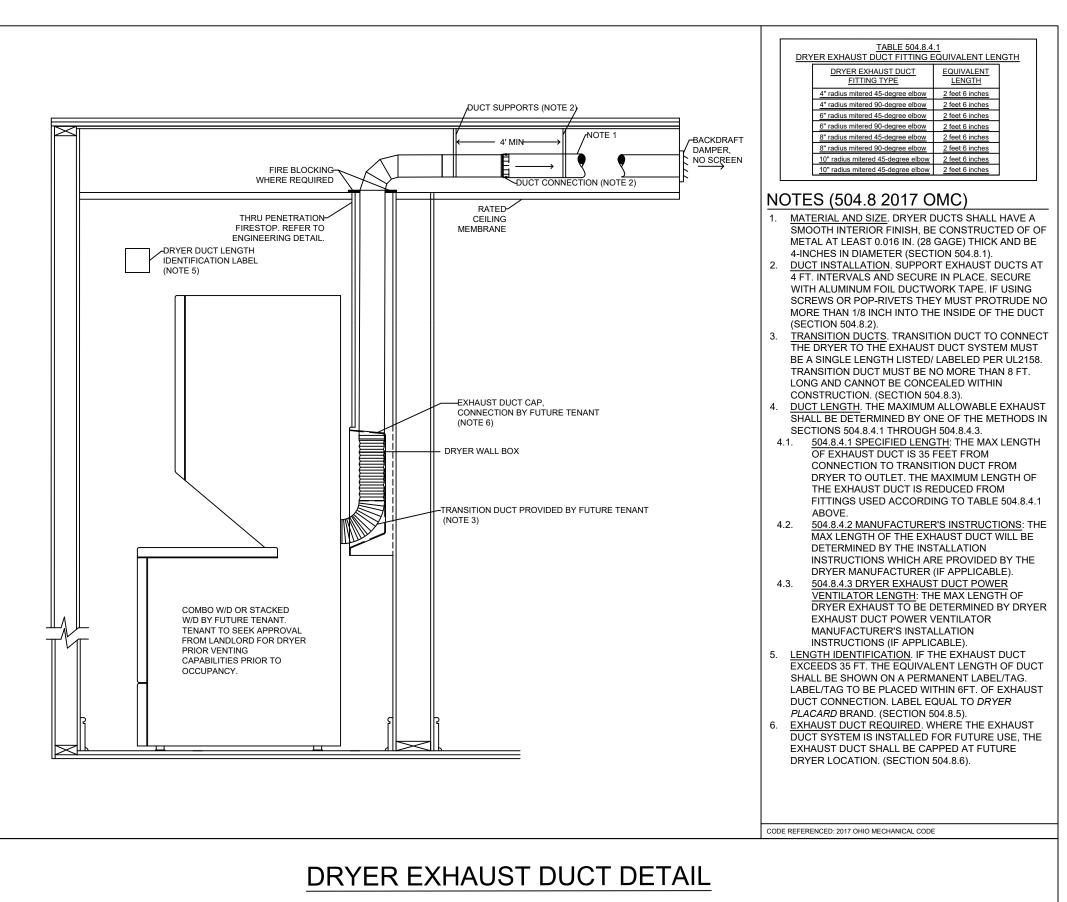
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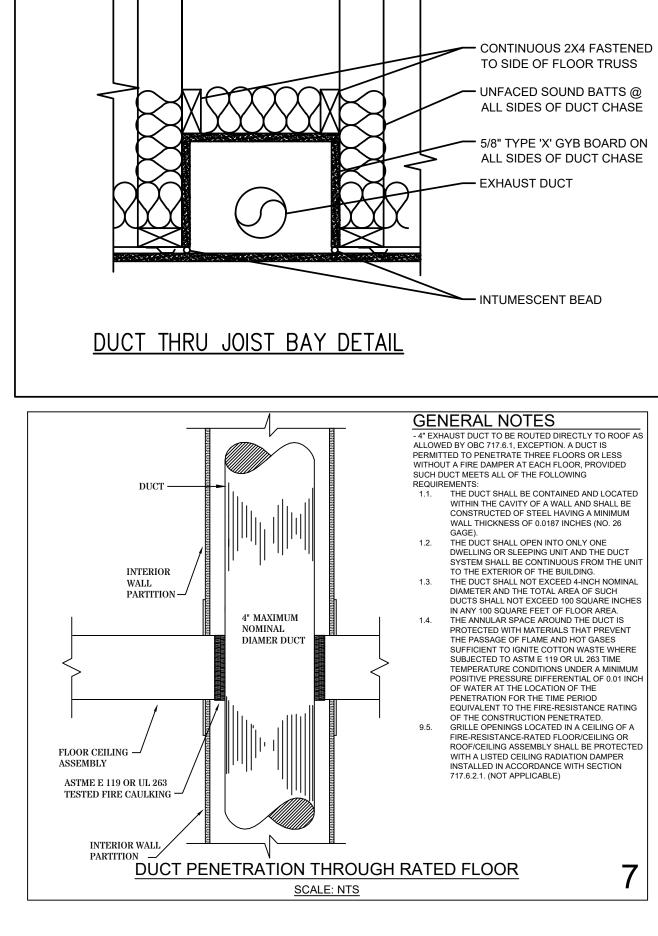
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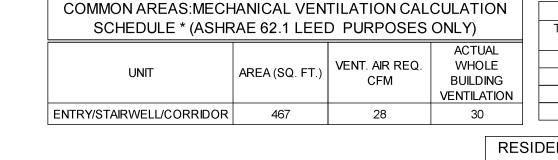
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	ВА	THROOM FAN SPEED	SETTING SCH	EDULE
	TYPICAL	ROOMNAME	MINIMUM SPEED	MAXIMUM SPEED
=	UNIT	ROOMNAME	SETTING	SETTING
	101	BATHROOM	30	80
	201	BATHROOM	30	80
	301	BATHROOM	30	80
	401	BATHROOM	30	80

RESIDENTIAL UNITS: MECHANICAL VENTILATION CALCULATION SCHEDULE * (ASHRAE 62.2 LEED PURPOSES ONLY)

SCHEDOLL (A	ASI INAL U	Z.Z LLLD	FUNFUSES	'INL I)
		NUMBER		ACTUAL
UNIT	AREA (SQ.	OF	VENT. AIR REQ.	WHOLE
ONT	FT.)	BEDROOM	Qfan (Eq. 4.1a)	BUILDING
		S		VENTILATIO
101	676	1	22	30
201	676	1	22	30
301	676	1	22	30
401	676	1	22	30

					FANS	CHEDULE							
TAG	TYPE	AREA SERVED	MANUFACTURER	MODEL	DRIVE	CFM	ESP	WATTS	RPM	VOLT/PHASE	MOUNTING	WEIGHT	NOTES
E-1	EXHAUST	TYPICAL RESTROOM	PANASONIC	FV-0511VKS2	DIRECT	30-80	0.25	17	1131	115/60/1	CEILING	12	1,2,3,4
E-2	EXHAUST	STAIRWELL	PANASONIC	FV-0511VKS2	DIRECT	30	0.25	17	1131	115/60/1	CEILING	12	2,3,4,5
4 544101	LIALL DUNLOCKITINU	2110124 AT 1 0244	ODEED (00 OEM) A	UD OLIALL DANA	5 UD TO U	IOLLOPEED (OC.O.	- 8 40 3 4 7 1 1 1 1	LOVETOL	LIO TLIDA	IED ON DOO	//DE ALL DEL	E) /A NIE	

1. FAN SHALL RUN CONTINUOUSLY AT LOW SPEED (30 CFM) AND SHALL RAMP UP TO HIGH SPEED (80 CFM) WHEN SWITCH IS TURNED ON. PROVIDE ALL RELEVANT ACCESSORIES.

2. INSTALL RADIATION DAMPER PC-RD05C5

3. PROVIDE FV-CSVK1 CONDESNSATION SENSOR

4. REFER TO FAN SPEED SCHEDULE FOR FAN SPEED SETTINGS

1. FAN SHALL RUN CONTINUOUSLY AT LOW SPEED (30 CFM)

						FIXTU	JRES		TOTAL	TOTAL
ROOM NUMBER/UNIT TYPICAL	ROOMNAME	OCCUPANCY CLASSIFICATION	AREA (ft2)	EXHAUST AIRFLOW RATE (CFWft2)	EXHAUST RATE PER FIXTURE (CFM)	LOWER CONTINUOUS RATE?	HIGHER INTERMITTENT RATE?	QTY. OF FIXTURES	EXHAUST	EXHAUST AIRFLOW ACT. (CFM)
	BATHROOM	PRIVATE DWELLING - TOILET ROOMS	-	-	30/80	YES	NO	1	30	30

E	XHA	AUST CALCUL	ATIONS PER	OMC 2017 TABLE 403
		DUCT INS	ULATION	SCHEDULE
		А	IR DISTRIBU	TION TYPE
		SA	RA	ADDITIONAL NOTES
EQUIPMENT	AHU-A-1.5	R-3.5	N/A	-
E	AHU-A-2	R-3.5	N/A	-
				NTS ARE BASED ON

PROVIDE DUCTWORK OF SUFFICIENT THICKNESS TO MEET THE INSTALLED R-VALUE REQUIREMENTS

LISTED ABOVE. ITEMS NOT REQUIRED TO BE INSULATED: FIBROUS-GLASS DUCTS, DUCTS WITH LINER THAT MEETS ASHRAE 90.1, FACTORY-INSULATED FLEXIBLE DUCTS, FACTORY-INSULATED PLENUMS AND CASINGS, FLEX CONNECTORS, VIBRATION-CONTROL DEVICES, FACTORY-INSULATED ACCESS

PANELS AND DOORS.

NATURAL VENTILATION SCHEDULE 1806 REPUBLIC WINDOW UNOBSTRUCED 4% OF UNIT **ROOM NAME** AREA OPENABLE OPENABLE OPENABLE FLOOR AREA FLOOR AREA OPENING AREA [SQ. FT] AREA [SQ. FT] N/A BEDROOM N/A LIVING N/A LIVING N/A N/A N/A LIVING

NATURAL VENTILATION CALCULATIONS PER SEC 402.1 OF 2017 OMC

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.

*VENTILATION CALCULATIONS PER OMC 2017 TABLE 403.3.1.1 DEHUMIDIFIER SCHEDULE

TAG AREA SERVED MANUFACTURER MODEL CAPACITY - AMPS FUSE VOLT/PHASE MOUNTING WEIGHT											
TAG TAREA SERVEDI MANUEACTURER I MODEL I "" I AMPS I EUSE IVOLT/PHASEIMOUNTINGIV/EIGH											
	TAG	AREA SERVED	MANUFACTURER	MODEL		AMPS	FUSE	VOLT/PHASE	MOUNTING	WEIGHT	NOTES
DE-1 BASEMENT APRILAIRE 1850 95 8 15 120/1 FLOOR 70	DE-1	BASEMENT	APRILAIRE	1850	95	8	15	120/1	FLOOR	70	1,2,3,4

1. ENERGY STAR RATED.

BEDROOM

2. DEHUMIDICATION COLTROL 3. CORD AND PLUG CONNECTION.

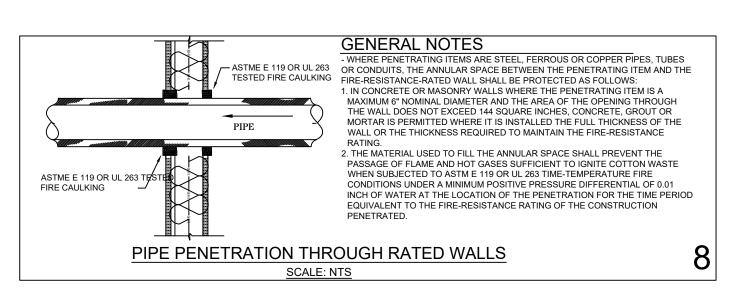
4. PROVIDE LOW PROFILE CONDENSATE PUMP

				HEATE	DC							
	1	T	1	TICATE	IN O	T						
TAG	TYPE	AREA SERVED	MANUFACTURER	MODEL	НЕАТ-МВН	FUEL	HEAT-KW	VOLT/PHASE	FLA	MOUNTING	WEIGHT	NOTES
DH-1	DUCT HEATER	REFER TO PLANS	HOTPOD	HP6-1000120-2T	3.4	ELECTRIC	1	120/1/60		INLINE	7	3,4
H-1	WALL HEATER	REFER TO PLANS	BERKO	FRA4020	6.8	ELECTRIC	2	208/1/60		IN WALL	30	1,2
1. SEMI-RECE	SSED MOUNTING SL	EEVE.									•	

2. INTEGRAL THERMOSTAT 3. DUCT STAT INCLUDED

4. REPLACEABLE FILTER INCLUDED

									APARTME	NT SPL	IT SYST	EM SCH	IEDULE										
Syste m	Outdoor Unit Tag	Model	Volts	Phase	MCA	МОСР	Outdoor Unit Weight	Indoor Unit Tag	Indoor Coil	Static	Air Flow CFM	Cool Cap Total	Cool Cap Sens	SEER	EER	Elect Heat Kw (240)	Elect Heat Kw (208)	Htg Cap 47 deg	Htg Cap 17 deg	HSPF	MCA	МОСР	Indoor Unit Weight
					Amps	Amps	lb	1		in wg.	cfm	Btuh	Btuh			kW	kW	Btuh	Btuh		Amps	Amps	lb
								AHU-A-1.5															
1.5 Ton 10KW	HP-1.5	DLCSRBH18AAK	208/230	1	16	25	101	(10KW)	FMA4X1800AL	0.50	650	18000	12690	17	11.8	10	7.2	19,200	15,000	11	47.6	60	103
								AHU-A-2															
2 Ton 10KW	HP-2	DLCSRBH24AAK	208/230	1	25	35	135	(10KW)	FMA4X2400AL	0.50	763	21800	18110	15	11.5	10	7.2	26,200	16,000	10	47.6	60	103
**Requires Piping	equires Piping Adaptor Kit 1174192 and 24V interface KSAIC0401230																						



SEVERT E-77755

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Job No: 22042 8/10/2022

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c. 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 Record Drawing a. The mechanical contractor shall be responsible for creating record drawings where required. Drawings shall be produced b. The mechanical contractor shall be responsible for creating record drawings in a format agreed upon by 3CDC, ZHx, and the contracting parties. a. All mechanical systems shall be tested for proper operation. 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.

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 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

c. Refer to architect's drawings for wall, floor, ceiling, and roof fire ratings prior to bidding work.

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.

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. 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. 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"

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.

MECHANICAL SPECIFICATIONS

4. License / Experience

Permits and Fees

Codes

conditions prior to bidding the work

system are the responsibility of the mechanical contractor.

payment will be approved without this certificate.

coordinated with general contractor prior to starting work.

drawings; use actual building dimensions.

drawings, specifications and applicable codes. b. Shop drawings shall be required for the following:

•Sheet metal coordination drawings

9. Shop Drawings / Submittals

HVAC equipment

Temperature controls

Duct Sealants

11. Testing

Fire Stopping

contractor/construction manager, etc. prior to installation and/or fabrication.

2. Use of Drawings And Specifications

General

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 •Heating mode - indoor air handler shall be controlled from a thermostat in the space. When the thermostat calls for

heating the fan shall run and the heat pump in heating mode shall run to maintain temperature setpoint. If the heat pump cannot maintain temperature in the space, the electric heat kit shall energize until set point is reached. When the setpoint is reached the unit shall shut off. • Cooling mode - when the thermostat calls for cooling the heat pump unit shall run in cooling mode, the air handler fan shall run, and the dx cooling coil shall cool the air to maintain temperature setpoint.

• AHU/HP-1.5: •Heating mode - indoor air handler shall be controlled from a thermostat in the space. When the thermostat calls for heating the fan shall run and the heat pump in heating mode shall run to maintain temperature setpoint. If the heat pump cannot maintain temperature in the space, the electric heat kit shall energize until set point is reached. When the setpoint is reached the unit shall shut off.

•Dehumidifier shall be controlled from an integral humidistat. When the humidity of the space rises above set point the

• Cooling mode - when the thermostat calls for cooling the heat pump unit shall run in cooling mode, the air handler fan shall run, and the dx cooling coil shall cool the air to maintain temperature setpoint. Dehumidifier

dehumidifier shall energize and begin to dehumidify the space. When the humidity setpoint is reached the

●DFH-1

dehumidifier shall shut off.

SPECIFIC PURPOSE FOR WHICH IT WAS PREPARE WITHOUT WRITTEN CONSENT OF ENGINEERED BUILDING SYSTEMS, INC.

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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 | GENERAL NOTES-OVERALL PROJECT 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.
- 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.
- D. SEE ARCHITECTURAL REFLECTED CEILING PLANS FOR DIMENSIONED LOCATIONS OF ALL LIGHT FIXTURES.
- PROVIDE CONDUIT AND PULL STRING TO APPROVED LOCATION FOR VOICE, DATA, AND CATV CABLES.
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- G. 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

MECHANICAL EQUIPMENT PROVIDED BY MECHANICAL CONTRACTOR, WIRED

BY ELECTRICAL CONTRACTOR. VERIFY ELECTRICAL REQUIREMENTS WITH

2. PLUMBING EQUIPMENT PROVIDED BY PLUMBING CONTRACTOR, WIRED BY

3. COORDINATE TV RECEPTACLE AND DATA LOCATIONS WITH OWNER AND

5. PROVIDE HARD-WIRED SMOKE DETECTORS WITH BATTERY BACK-UP AS REQUIRED. ONE SMOKE DETECTOR IN EACH UNIT MUST BE A SMOKE/CO

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11. EXTERIOR LIGHTING ON PHOTOCELL. CONFIRM LOCATION OF PHOTOCELL

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15. HOT WATER CIRCULATION PUMP HARDWIRED CIRCUIT CONNECTION.

BACKBOARD FOR DATA/PHONE UTILITIES. COORDINATE ALL REQUIREMENTS

9. CORRIDOR LIGHTS TO BE CONTROLLED BY OCCUPANCY SENSOR UNLESS

LOCATION WITH GENERAL CONTRACTOR PRIOR TO ROUGH-IN.

FLOW SWITCH. COORDINATE LOCATION WITH FIRE PROTECTION

ELECTRICAL CONTRACTOR. VERIFY ELECTRICAL REQUIREMENTS WITH

4. PROVIDE SWITCH AND CONNECTION FOR CONTINUOUSLY RUNNING 2-SPEED BATHROOM FAN. VERIFY REQUIREMENTS WITH MECHANICAL CONTRACTOR

ARCHITECT PRIOR TO ROUGH-IN.

QUAD RECEPTACLE AS SHOWN.

REFRIGERATOR AS SHOWN.

SEE UNIT 101 FOR CIRCUITRY LAYOUT.

OWNER AND ARCHITECT PRIOR TO ROUGH-IN.

FAN, FAN NOT TO BE INSTALLED AT THIS TIME.

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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.

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- 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.
- 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.
- E. ELECTRICAL SWITCHES ON OPPOSITE SIDES OF A WALL ARE TO BE SPACED SO THAT THEIR ELECTRICAL BOX ARE A MINIMUM OF ONE STUD BETWEEN BOXES.

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- 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
- 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
- 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.
- 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
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- 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.
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STANDARD MOUNTING HEIGHTS



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UBL

Progress Dates

Checked By: PRS

Drawn by: AJW

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515 Monmouth Street, Suite 204

Newport, KY 41071 (859) 261-0585

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05/05/2023 BID P/E/FP

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BATHROOM FAN. VERIFY REQUIREMENTS WITH MECHANICAL CONTRACTOR

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STANDARD MOUNTING HEIGHTS



Progress Dates 05/05/2023 BID P/E/FP

Checked By: PRS

Drawn by: AJW **ENGINEERED**

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ALL DIMENSIONS ARE MEASURED TO CENTER OF DEVICE. COORDINATE ALL EXPOSED CONDUIT RUNS WITH OWNER AND ARCHITECT PRIOR TO ROUGH IN. CONTRACTOR TO CONFIRM ALL DEVICE HEIGHTS/LOCATIONS WITH OWNER, ARCHITECT, AND GC PRIOR TO ROUGH-IN. EXPOSED CONDUITS FOR SWITCHES TO BE ROUTED FROM ABOVE COUNTER HEIGHT SWITCHES ... **DEVICES** EXPOSED CONDUITS FOR RECEPTACLES

STANDARD MOUNTING HEIGHTS



Progress Dates 05/05/2023 BID P/E/FP

Checked By: PRS



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Job No: 22042

8/10/2022

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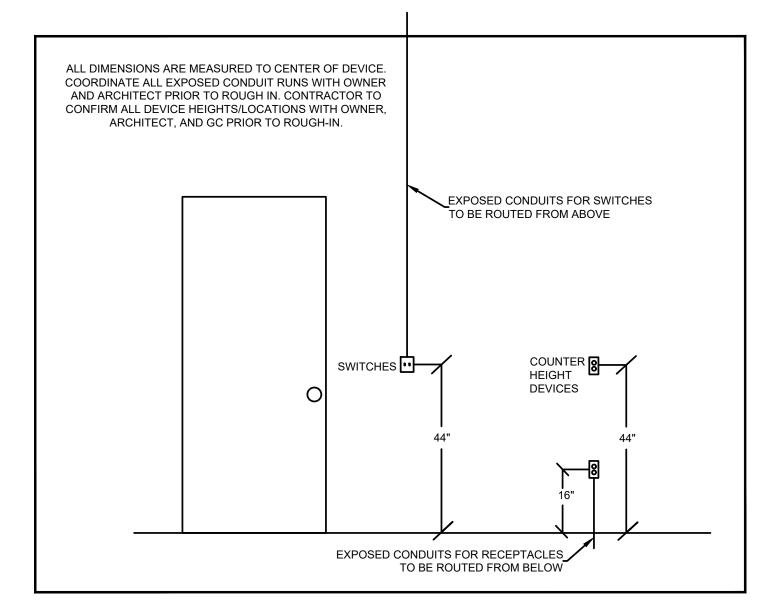
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STANDARD MOUNTING HEIGHTS



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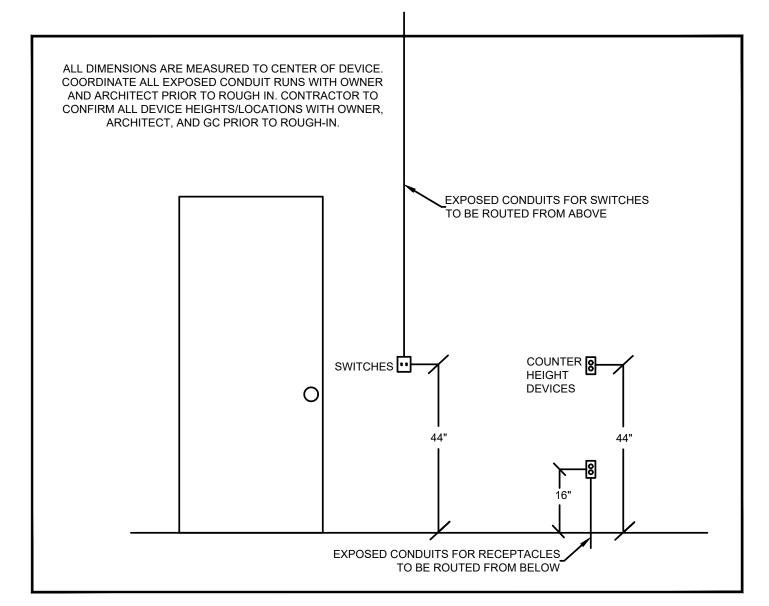
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15. HOT WATER CIRCULATION PUMP HARDWIRED CIRCUIT CONNECTION.

BACKBOARD FOR DATA/PHONE UTILITIES. COORDINATE ALL REQUIREMENTS

9. CORRIDOR LIGHTS TO BE CONTROLLED BY OCCUPANCY SENSOR UNLESS

LOCATION WITH GENERAL CONTRACTOR PRIOR TO ROUGH-IN.

FLOW SWITCH. COORDINATE LOCATION WITH FIRE PROTECTION

ELECTRICAL CONTRACTOR. VERIFY ELECTRICAL REQUIREMENTS WITH

4. PROVIDE SWITCH AND CONNECTION FOR CONTINUOUSLY RUNNING 2-SPEED BATHROOM FAN. VERIFY REQUIREMENTS WITH MECHANICAL CONTRACTOR

MECHANICAL REQUIREMENTS PRIOR TO ROUGH-IN.

PLUMBING REQUIREMENTS PRIOR TO ROUGH-IN.

SHALL BE LOCATED IN AN ACCESSIBLE LOCATION.

ARCHITECT PRIOR TO ROUGH-IN.

QUAD RECEPTACLE AS SHOWN.

REFRIGERATOR AS SHOWN.

SEE UNIT 101 FOR CIRCUITRY LAYOUT.

OWNER AND ARCHITECT PRIOR TO ROUGH-IN.

FAN, FAN NOT TO BE INSTALLED AT THIS TIME.

PRIOR TO ROUGH-IN.

SCOPE OF WORK

RENOVATION OF EXISTING BUILDING MULTIFAMILY BUILDING WITH COMMERCIAL FIRST FLOOR. PROVIDE NEW ELECTRICAL DISTRIBUTION, POWER AND LIGHTING. SEE SINGLE LINE DIAGRAM FOR MORE DETAILS.

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.
- 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.
- E. ELECTRICAL SWITCHES ON OPPOSITE SIDES OF A WALL ARE TO BE SPACED SO THAT THEIR ELECTRICAL BOX ARE A MINIMUM OF ONE STUD BETWEEN BOXES.

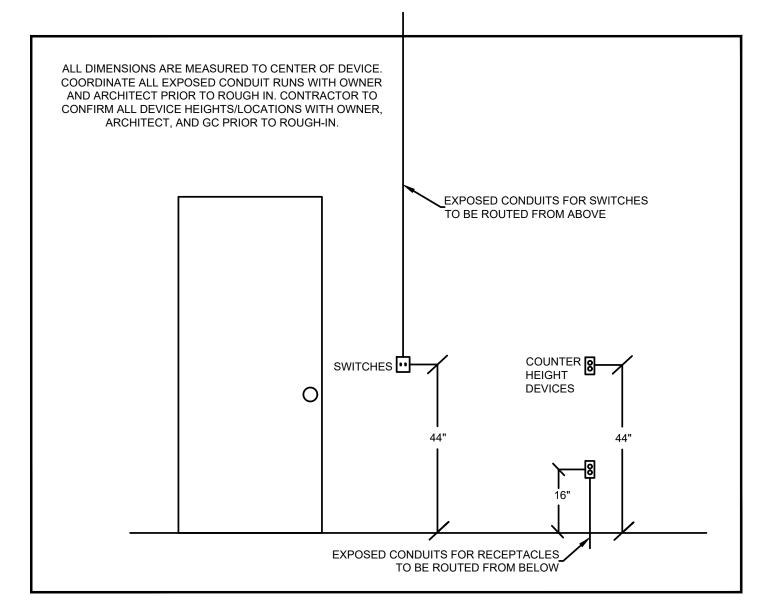
GENERAL NOTES-POWER

- CONDITIONS. MECHANICAL EQUIPMENT PROVIDED BY MECHANICAL CONTRACTOR, WIRED B. SEE SINGLE LINE DIAGRAM FOR FEEDER WIRE AND CONDUIT SIZE. ALL BY ELECTRICAL CONTRACTOR. VERIFY ELECTRICAL REQUIREMENTS WITH
 - 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.

 - 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.
 - 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
 - ELECTRICAL RECEPTACLES ON OPPOSITE SIDES OF A WALL ARE TO BE SPACED SO THAT THEIR ELECTRICAL BOX ARE A MINIMUM OF ONE STUD

- A. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL CONDUIT/CABLE ROUTING. COORDINATE ROUTING WITH ALL OTHER TRADES AND BUILDING
- CIRCUITS NOT SIZED ON DRAWING SHALL BE INSTALLED TO MEET MINIMUM
- D. ALL PANELS AND DISCONNECTS LOCATED OUTDOORS SHALL BE LABELED

- G. REFER TO ARCHITECT'S PLANS AND ELEVATIONS FOR ALL DEVICE MOUNTING
- GUIDELINES WHERE REQUIRED
- BETWEEN BOXES.



STANDARD MOUNTING HEIGHTS



SCALE: 1/4" = 1'-0" ELECTRICAL POWER PLAN - ROOF

Progress Dates 05/05/2023 BID P/E/FP

Checked By: PRS

Drawn by: AJW



TEAMWORK • COLLABORATION SHARED SUCCESS 515 Monmouth Street, Suite 204 Newport, KY 41071 (859) 261-0585 MEP Consulting Services, Inc. in OH

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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

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

a. The electrical contractor shall procure and pay for all permits, fees and inspections necessary to complete the electrical work.

Phase II)\~Construction Documents\~Phase 1 (8 Buildings)\1806 REPUBLIC\9757—IED AS CONTRACT DOCUMENTS. THESE DRAWINGS HAVE BEEN PREPSPONSIBLE TO ENSURE THAT MEANS, METHODS, AND MATERIALS US

2:\~Project Directories\9700—9799\9757 — Findlay Flats Findlay Parkside (Willkommen ? THESE DRAWINGS AND SPECIFICATIONS ARE NOT AUTHORIZED TO BE USE TO DETERMINE CODE COMPLIANCE. THE INSTALLING CONTRACTOR IS RESGENERAL CONTRACTOR, ETC.

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
- 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.

a. The electrical drawings and specifications convey design intent only. 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 are the responsibility of the electrical

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.

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.

a. The electrical contractor shall be responsible for creating record drawings where required. Drawings shall be produced in Autocad 2004 format or later.

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.

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.

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

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.

- 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
- 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.

a. Hubbell, Leviton, or approved equal with matching coverplates b. Provide specification grade wiring devices, in types, characteristics, grades, which comply with NEMA WD1 and other applicable UL and NEMA standards. Verify color selections with architect. Provide device plates to match device

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

25. 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.

26. 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 I time-delay, current limiting fuses.

27. Nameplates

a. Provide permanent nameplate labeling on all disconnects. Include load served, voltage, phase, horsepower, fuse size, and type.

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

29. 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.

30. 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.

31. 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.

32. Residential Load Centers

a. Provide load centers as shown on drawings and as specified herein. Load centers shall be Eaton, Square D, GE by ABB, or equal. Load centers shall contain a neatly typed directory in each door. All multiple pole breakers shall have a common trip handle. All panels and breakers shall be rated to withstand available fault current. Load centers may be used in areas other than dwelling units where appropriate and where approved by Owner's representative.

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

34. 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.

35. 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.

36. 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.

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.

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Progress Dates 05/05/2023 BID P/E/FP

Revisions

Checked By: PRS Drawn by: AJW



Newport, KY 41071 (859) 261-0585

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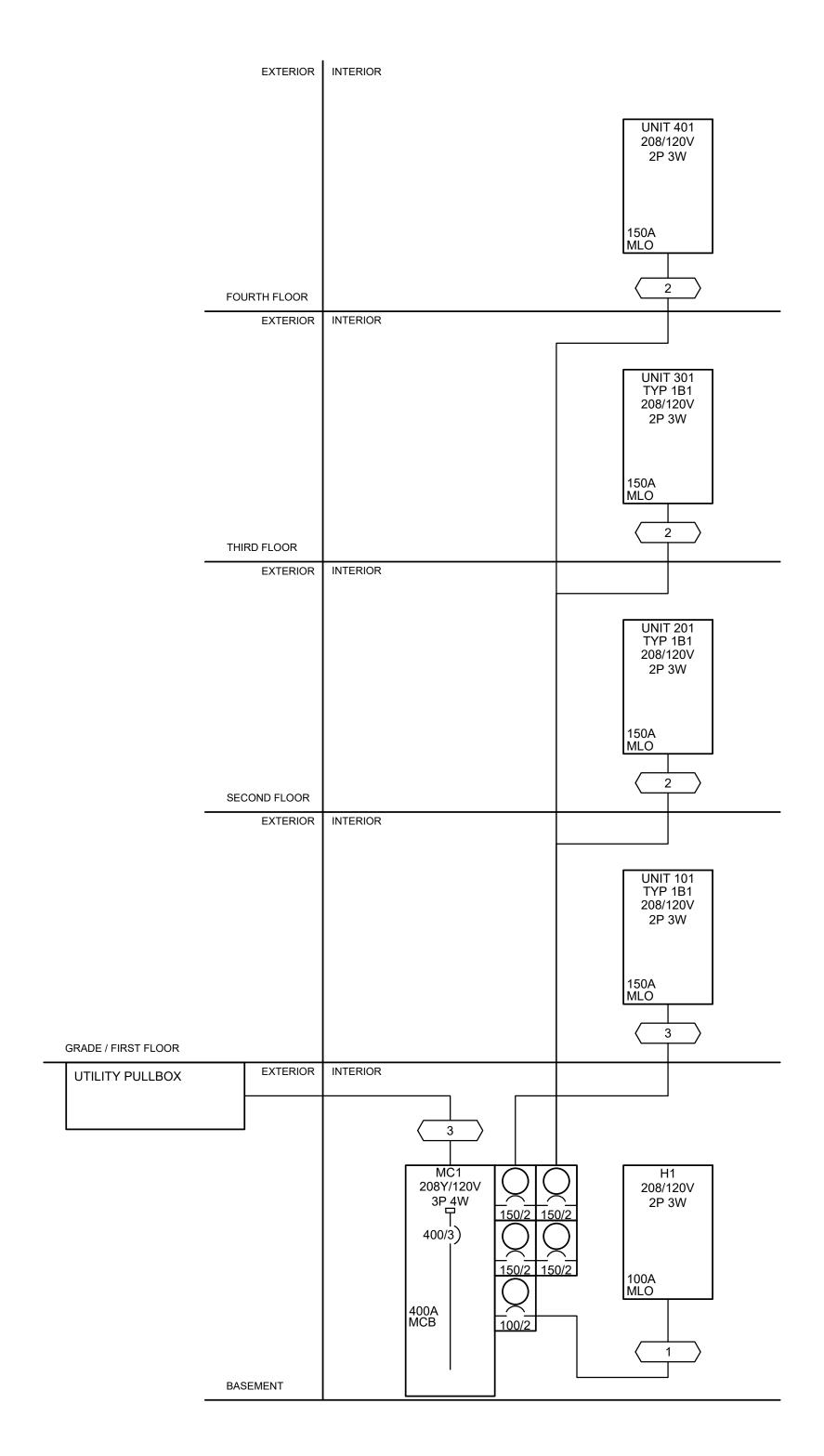
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Job No: 22042 8/10/2022

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ELECTRICAL DETAILS





Z:\~Project Directories\9700–9799\9757 — Findlay Flats Findlay Parkside (Willkommen ? Phase II)\~Construction Documents\~Phase 1 (8 Buildings)\1806 REPUBLIC\9757—|
THESE DRAWINGS AND SPECIFICATIONS ARE NOT AUTHORIZED TO BE USED AS CONTRACT DOCUMENTS. THESE DRAWINGS HAVE BEEN PREP.
TO DETERMINE CODE COMPLIANCE. THE INSTALLING CONTRACTOR IS RESPONSIBLE TO ENSURE THAT MEANS, METHODS, AND MATERIALS US
GENERAL CONTRACTOR, ETC.

SCOPE OF WORK

RENOVATION OF EXISTING BUILDING MULTIFAMILY BUILDING WITH COMMERCIAL FIRST FLOOR. PROVIDE NEW ELECTRICAL DISTRIBUTION, POWER AND LIGHTING. SEE SINGLE LINE DIAGRAM FOR MORE DETAILS.

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-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.

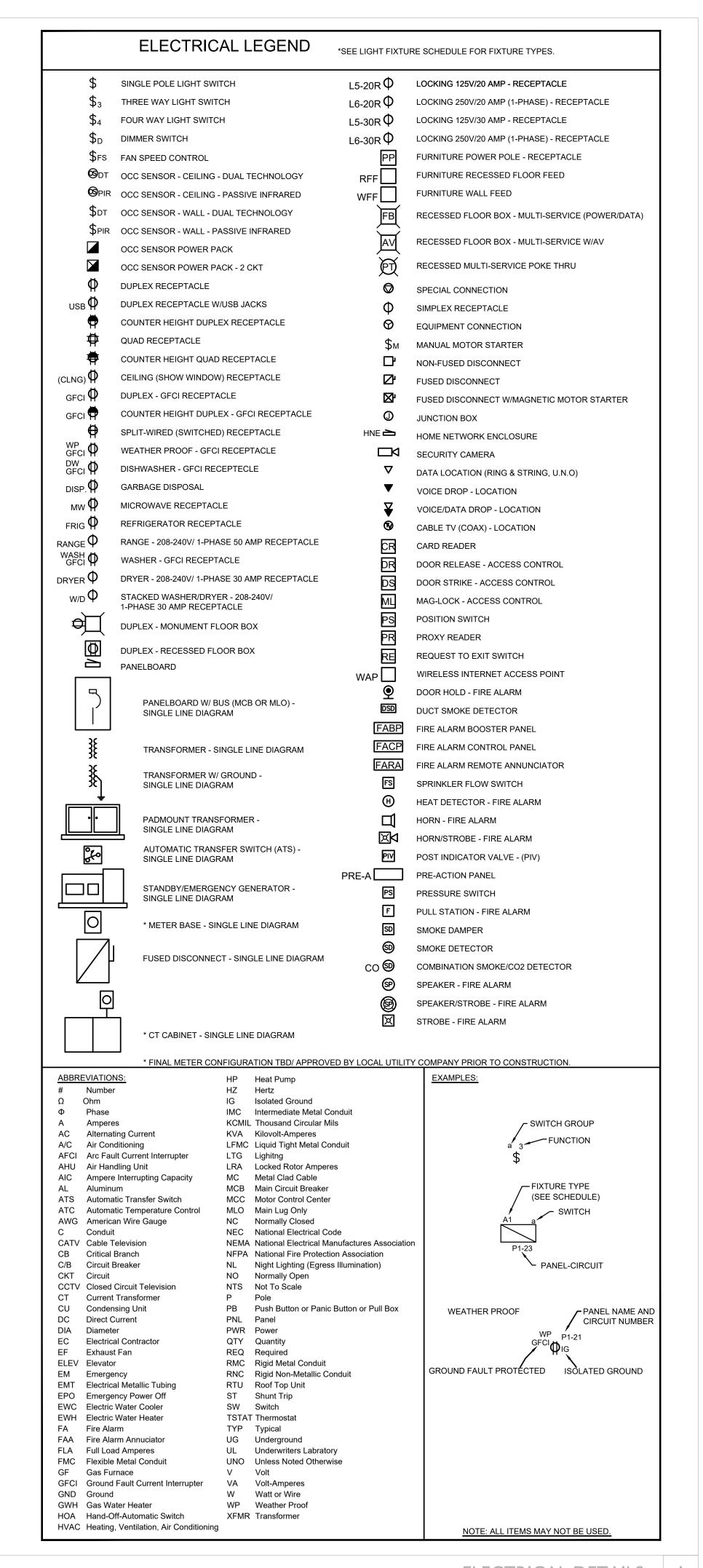
 C. PANEL SCHEDULES INDICATE BREAKER SIZE ONLY. PROVIDE AFCI/GFCI PROTECTION AS REQUIRED BY NEC. COORDINATE FINAL BREAKER SIZESTYPES FOR ITEMS FURNISHED BY OTHERS WITH SOON PROTECTION.
- PRODUCT INFORMATION FOR ACTUAL EQUIPMENT BEING CONNECTED

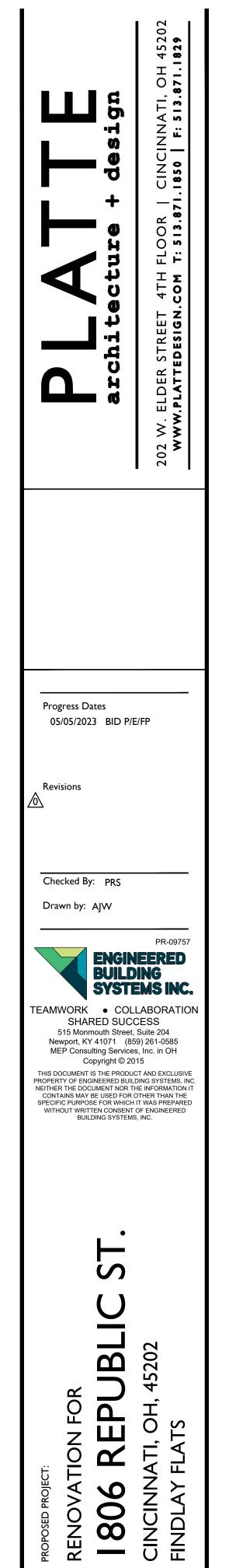
 D. ELECTRICAL CONTRACTOR SHALL NOT ORDER OR PURCHASE ANY MATERIALS OR EQUIPMENT UNTIL PERMIT DRAWINGS HAVE BEEN APPROVED BY AHJ.
- E. PROVIDE SELECTIVE COORDINATION FOR EMERGENCY SYSTEM OVERCURRENT PROTECTION DEVICES IN ACCORDANCE WITH NEC 700.27.
- F. PROVIDE GROUND-FAULT PROTECTION FOR EQUIPMENT IN 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.

FEEDER SCHEDULE

ID	CONDUIT AND FEEDER
1	1-1/4"C,2#1 AL,#1 AL N,#6 AL G
2	2#2/0 AL,#2/0 AL N,#4 AL G
3	(2)2-1/2"C,3#250kcmil AL,#250kcmil AL N,#1/0 AL G

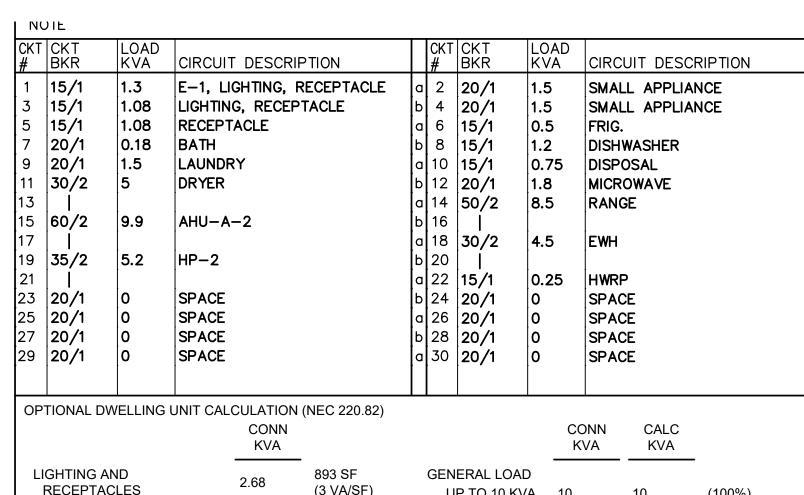
SIZING METHOD: COMPACT AL 75°C 100A AND ABOVE, CU 75°C BELOW 100A





Job No: 22042

8/10/2022



	KVA	_		KVA	KVA	_	
LIGHTING AND RECEPTACLES	2.68	893 SF (3 VA/SF)	GENERAL LOAD UP TO 10 KVA	10	10	(100%))
SMALL-APPLIANCE	3		OVER 10 KVA	19.7	7.87	(40%)	
LAUNDRY APPLIANCES	1.5 13.8		MAX HEATING OR COOLING		11.6	(220.82	2(C)(3))
ELECTRIC COOKING MOTORS	8.5 0.25	_	TOTAL LOAD BALANCED LOAD		29.5 142 A	-	
TOTAL GENERAL LOAD	29.7		PHASE A PHASE B		102% 97.9%		
APPLIANCE BREAKDO	۸N		HVAC Load Cald	culation		KVA	NEC Co
TYPE	KVA		Heating			15.10	

Multi-Family Dwelling Unit Calc

3.33

0.00

9.77 220.82 C(3)

13.23 220.84 C(5)

TOTAL GENERAL LOAD	29.7	PHASE A 102% PHASE B 97.9%			Largest Heating or Cooling Load 220.84	15.10
		FINAL D 97.570			220.84 CONNECTED LOAD CALC	44.78
APPLIANCE BREAKDOW	N	HVAC Load Calculation	KVA	NEC Code		
TYPE	KVA	Heating	15.10			
REFRIGERATOR	0.5	Cooling	5.20			
DISHWASHER	1.2	Cooling	5.20			
DISPOSAL	0.75	Mini Split	0.00			
MICROWAVE	1.8	100% of Nameplate Rating of AC and Cooling	5.20	220.82 C(1)		
WATER HEATER	4.5	100% of Nameplate Rating of Heat Pump w/o Supplmental Heat	0.00	220.82 C(2)		
DRYER	5		+	· ,		
HOW WATER RECIRC PUMP	0.25	Heat Pump plus 65% of Supplemental Heat	11.64	220.82 C(3)		
TOTAL	14.00	Largest Heating or Cooling Load	15.10	220.84 C(5)		

T	- YP	1 F	31											TYP 1B1 UNIT 201	
M(DOM OUNTING ED FROM OTE	FLUSH			VOLTS 208 BUS AMPS NEUTRAL	15	0	2P 3W			AIC T.B.D MAIN BKR LUGS STA	MLO		UNIT 301 UNIT 401	
	CKT BKR	LOAD KVA	CIRCUIT [)ESCRI	PTION		CKT #	CKT	LOAD KVA	CIR	CUIT DESC	RIPTION	<u> </u>		
1 3 5 7 9 11 13 15 17 19 21 23 25 27	15/1 15/1 15/1 20/1 20/1 30/2 60/2 25/2 20/1 20/1 20/1	1.3 1.08 1.08 0.18 1.5 5 9.9 3.33		TING, I RECEF LE	RECEPTACLE	b a b a b a b a b a b a b a b	2 4 6 8 10 12 14 16 18 20 22 24 26 28	20/1 20/1 15/1 15/1 15/1 20/1 50/2 30/2 15/1 20/1	1.5 1.5 0.5 1.2 0.75 1.8 8.5 4.5 0.25 0	SMA SMA FRIG DISH DISH	ALL APPLIA ALL APPLIA G. HWASHER POSAL ROWAVE IGE ACE ACE	NCE			
S L A E M	IGHTING AI RECEPTAG MALL-APPI AUNDRY PPLIANCE LECTRIC G IOTORS OTAL GEN	ND CLES LIANCE S COOKING	2. 3 1. 13 8. 0.	CONN KVA 68 5	(NEC 220.82) - 893 SF (3 VA/SF)		MAX CC TOT BAL	JERAL LOA JP TO 10 K OVER 10 K (HEATING OOLING TAL LOAD ANCED LO	VA 10 VA 19.		CALC KVA 10 7.87 9.76 27.6 133 A 102%	- (100%) (40%) (220.82) 2(C)(3))	Multi-Family Dwelling Unit Ca Total General Load	KV 29.4
-			EAKDOWN	o.1				ASE A ASE B HVAC Loa	d Calculati	——	97.8%	KVA	NEC Code	Largest Heating or Cooling Load 2 220.84 CONNECTED LOAD CA	13.2 42. 0
TYPI		, to_ bit	_ 11.501111	KVA					eating	<u> </u>		13.23		-	
	RIGERATOR			0.5					zauriy			13.23		4	

Mini Split 100% of Nameplate Rating of AC and Cooling

Heat Pump plus 65% of Supplemental Heat

Largest Heating or Cooling Load

100% of Nameplate Rating of Heat Pump w/o Supplmental Heat | 0.00 | 220.82 C(2)

REFRIGERATOR

WATER HEATER

HOW WATER RECIRC PUMP

DRYER

TOTAL

4.5 5

0.25

14.00

DISHWASHER DISPOSAL MICROWAVE

Z:\~Project Directories\9700-9799\9757 - Findlay Flats Findlay Parkside (Willkommen ? Phase II)\~Construction Documents\~Phase 1 (8 Buildings)\1806 REPUBLIC\9757-E2-02-ELECTRICAL-DETAILS.dwg-EBS. Plot Date\7Ime: May 05, 2023-5:10pm - By \$(++)
THESE DRAWINGS AND SPECIFICATIONS ARE NOT AUTHORIZED TO BE USED AS CONTRACT DOCUMENTS. THESE DRAWINGS HAVE BEEN PREPARED TO DEMONSTRATE COMPLIANCE WITH APPLICABLE ONTRACTOR IS RESPONSIBLE TO ENSURE THAT MEANS, METHODS, AND MATERIALS USED IN CONSTRUCTION ARE INSTALLING CONTRACTOR IS RESPONSIBLE TO ENSURE THAT MEANS, METHODS, AND MATERIALS USED IN CONTRACTOR, ETC.

				Ά	OAD KV	┙				BREAKER	KT
	ONDUCTORS	ACEWAY AND CO	FEEDER R	С	В	Α	CIRCUIT DESCRIPTION		TRIP/POLES	#	
	1-1/4"C,2#1 AL,#1 AL N,#6 AL G 2#2/0 AL,#2/0 AL N,#4 AL G			21.4 22.5 22.3	3.86 22.5 21.4 23.4	4.54 21.4 22.5	H1 UNIT 101 - TYP 1B1 UNIT 201 - TYP 1B1 UNIT 301 - TYP 1B1 UNIT 401			100/2 150/2 150/2 150/2 150/2	1 2 3 4 5
				66.2	71.2	48.4	Y PHASE	CTED KVA B	TOTAL CONNE		
							220.84)	ULATION (NEC	ILY DWELLING CALC	ONAL MULTIFAM	OPTIO
				OADS	IG UNIT L	DWELLIN	!				
	KVA							KVA			
	174		CONNECTED LOAD				3,572 SF (3 VA/SF)	10.7	EPTACLES	HTING AND RECI	LIGH
	4		DWELLING UNITS DEMAND FACTOR CALCULATED LOAD				,	12		ALL-APPLIANCE	SMA
	(45%) 78.1							6		INDRY	
	70.1	CALCULATED LOAD						55		PLIANCES	
								34	i	CTRIC COOKING	
							(4000/)	1		TORS	
							(100%) (0%)	54.8 15.2		ATING DLING	
)S	SE LOAD	HOU	(076)			JLING	
	CALC KVA	CONN KVA						CALC KVA	CONN KVA		
(50%>10)	1.62	1.62	S	EPTACLE	REC		(125%)	0.271	0.217	HTING	LIGH
(100%)	1.46	1.46		ICONTINU			(25%)	0.025	0.1	GEST MOTOR	
(100%)	5	5		TING	HEA		(100%)	0.2	0.2	TORS	МОТ
	8.58		E LOAD	AL HOUS	TOT						
)	TAL LOAD	TO					
	KVA							KVA			
	86.7 241 A	TOTAL LOAD BALANCED 3-PHASE LOAD				-	78.1 8.58	TOTAL DWELLING UNIT LOAD TOTAL HOUSE LOAD			

220.84 Multi-Family Calculation

UNIT 401

Total Quantity and Connected Load =

KVA

42.66

44.78

Qty

Total KVA

127.98

44.78

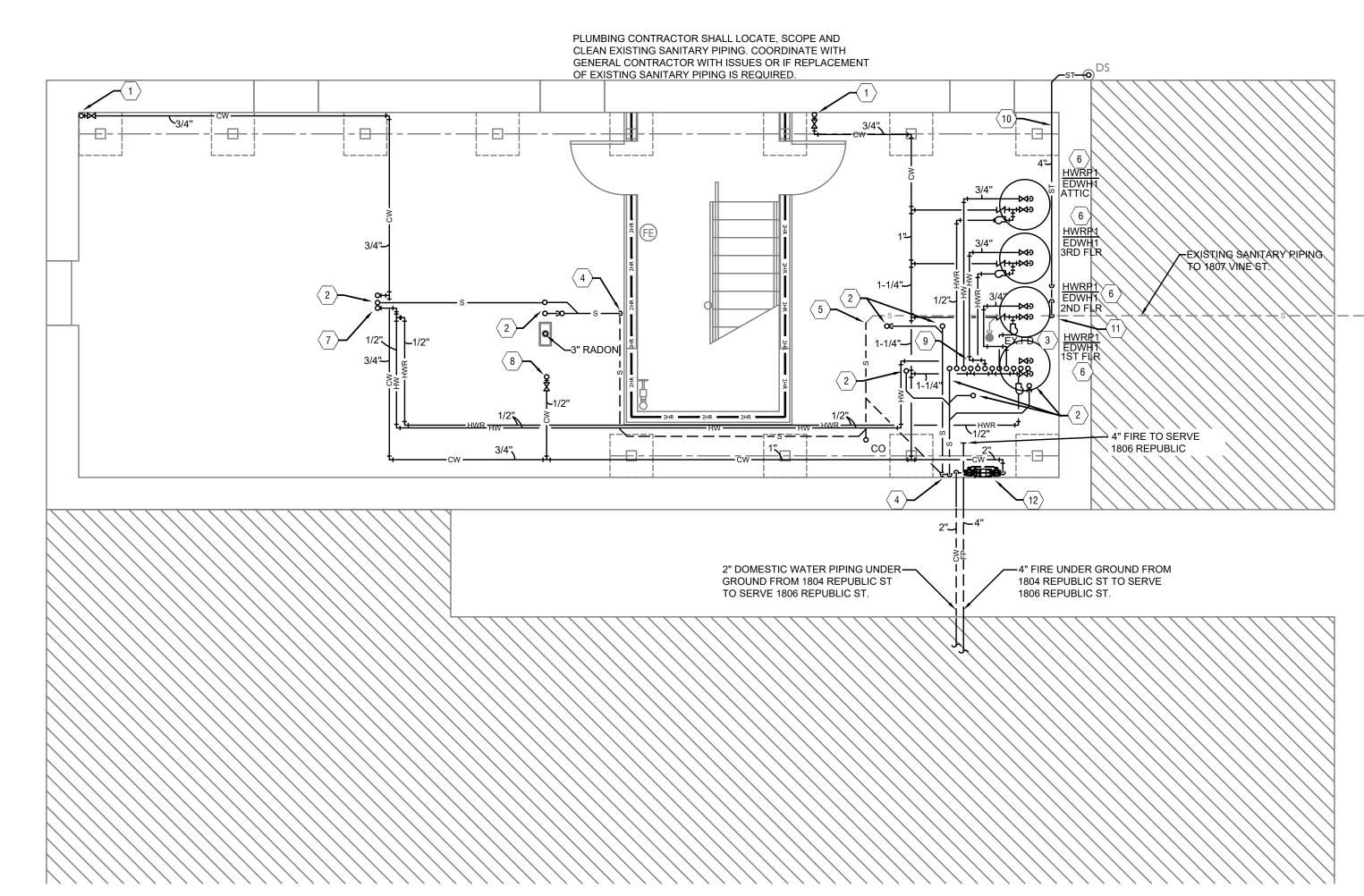
172.76

M ⁰	OOM OUNTING ED FROM OTE CKT BKR 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1	SURFA MC1 LOAD KVA 0.217 0.54 0.82 0.36 0.5 0 0 0	CIRCUITUGHTIN RECEPT E-2, R RECEPT (SR) SF	ACLE ECEPTACL	E RISER	10 00 00 00 00 00 00 00 00 00 00 00 00 0	CKT # 2 4 6 8 10 12 14 16 18 20 22	CKT BKR 20/2 20/2 20/1 20/1 20/1 20/1 20/1	LCK\2 2 1 0.9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		CIRCI H-1 H-1 DH-1	1) DEHUN E E E E E E	MLO ANDARD CRIPTION
A L	IGHTING PPLIANCE ARGEST MOTOR		CONN KVA 0.217 1 0.1	CALC KVA 0.271 1 0.025	(125%) (100%) (25%)		REC NON HEA TOT BAL PH	TORS EPTACLES ICONTINUO ITING AL LOAD ANCED LOA ASE A ASE B	ous	0.1 1.62		CALC KVA 0.1 1.62 1.46 4 8.48 40.8 A 107% 92.5%	- (100%) (50%>10) (100%) (100%)

Progress Dates 05/05/2023 BID P/E/FP Checked By: PRS Drawn by: AJW **ENGINEERED** TEAMWORK • COLLABORATION SHARED SUCCESS 515 Monmouth Street, Suite 204 Newport, KY 41071 (859) 261-0585 MEP Consulting Services, Inc. in OH Copyright © 2015 THIS DOCUMENT IS THE PRODUCT AND EXCLUSIVE PROPERTY OF ENGINEERED BUILDING SYSTEMS, INC. NEITHER THE DOCUMENT NOR THE INFORMATION IT CONTAINS MAY BE USED FOR OTHER THAN THE SPECIFIC PURPOSE FOR WHICH IT WAS PREPARED WITHOUT WRITTEN CONSENT OF ENGINEERED BUILDING SYSTEMS, INC.

REPUBLIC 806

	PLUMBING LEGEND
SYMBOL	DESCRIPTION
s	SANITARY/WASTE PIPING BELOW FLOOR
—-s—	SANITARY/WASTE PIPING ABOVE CEILING
v	VENT PIPING
CW	COLD WATER PIPING
——НW——	HOT WATER PIPING
—HWR—	HOT WATER RETURN PIPING
—— G ——	NATURAL GAS PIPING
st	STORM PIPING
FD●	FLOOR DRAIN
<u>rd</u> ©	ROOF DRAIN
<u>od</u> ©	OVERFLOW DRAIN
	BALL VALVE
──	CHECK VALVE
	BALANCING VALVE
CO •	CLEANOUT
WH H	FROST PROOF WALL HYDRANT
#	VENT THROUGH ROOF RISER INDICATOR
O	HOT WATER RETURN PUMP



PLUMBING BASEMENT KEYED NOTES

- 1. 3/4" COLD WATER PIPING UP TO SERVE WALL HYDRANT ON FLOOR ABOVE.
- 2. SANITARY PIPING UP TO FLOOR ABOVE. REFER TO ISOMETRICS FOR PIPE SIZES.
- 3. PLUMBING CONTRACTOR SHALL INSPECT EXISTING FLOOR DRAIN. CLEAN, FIX OR REPLACE AS REQUIRED.
- 4. SANITARY PIPING DOWN UNDER SLAB. REFER TO ISOMETRICS FOR PIPE SIZES.
- 5. CONNECT NEW SANITARY PIPING TO EXISTING SANITARY PIPING.
- 6. ELECTRIC TANK TYPE WATER HEATER WITH HEAT TRAPS ON INLET AND OUTLET. 3/4" COLD WATER IN, 3/4" HOT WATER OUT. PROVIDE DRAIN PAN AND PIPE DRAIN AND PRESSURE RELIEF VALVE INDEPENDENTLY AND INDIRECTLY TO FLOOR DRAIN. REFER TO DETAIL SHEETS FOR SPECIFICATIONS.
- 7. HOT AND COLD WATER PIPING UP TO FLOOR ABOVE.
- 8. COLD WATER PIPING UP TO FLOOR ABOVE.
- 9. 3/4" COLD WATER, 3/4" HOT WATER AND 1/2" HOT WATER RETURN PIPING UP TO FLOORS ABOVE.
- 10. 4" STORM PIPING.
- 11. CONNECT NEW STORM LEADERS WITH RUNNING TRAP TO EXISTING SANITARY PIPING.
- 12. PROVIDE A 2" REDUCE PRESSURE BACKFLOW PREVENTER.



architecture + des

Progress Dates
05/05/2023 BID P/E/FP

Revisions

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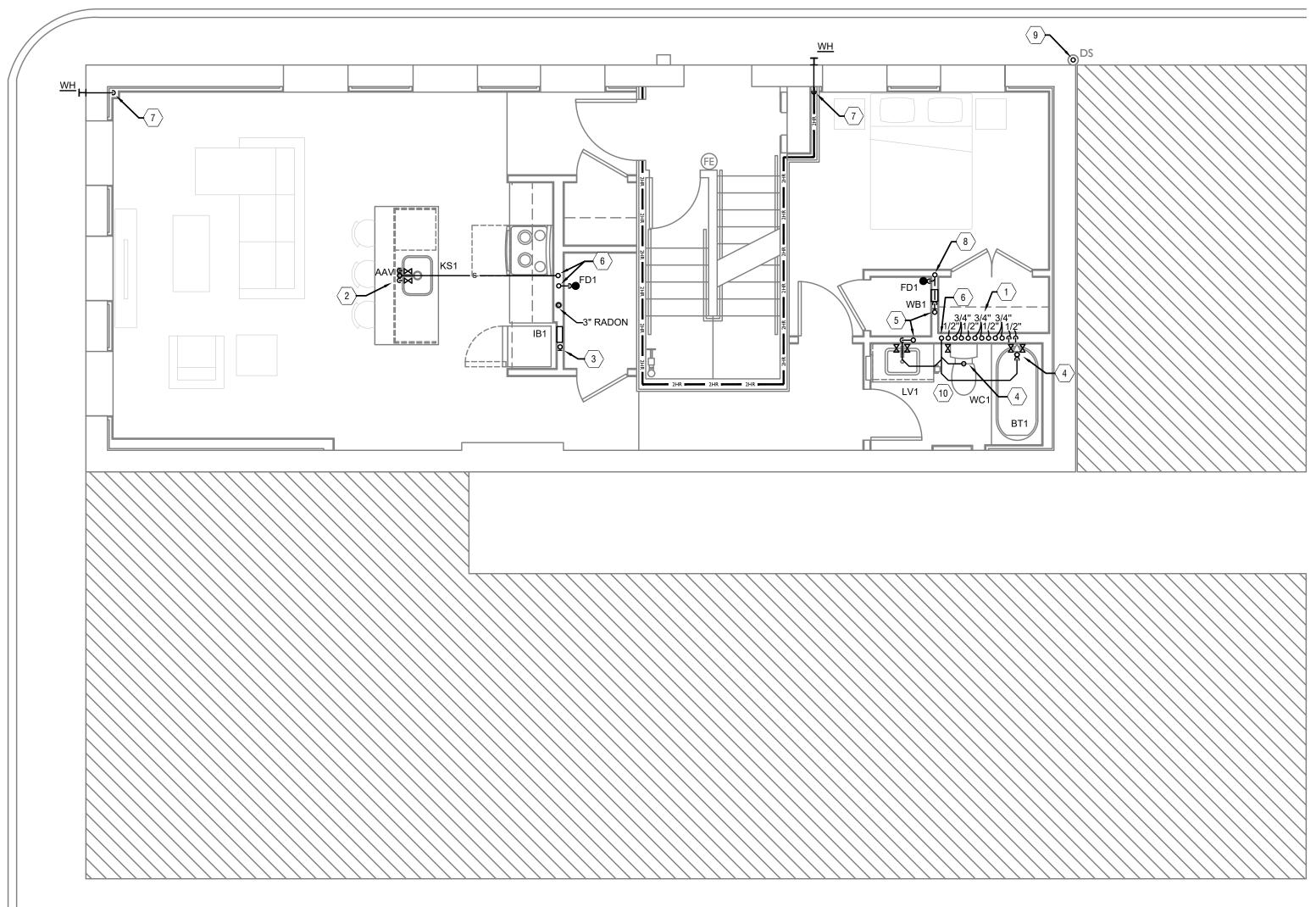
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OVATION FOR OVATION FOR OVATION FOR OVATION FOR OWATION 45202

Job No: 22042 8/10/2022

	PLUMBING LEGEND
SYMBOL	DESCRIPTION
s	SANITARY/WASTE PIPING BELOW FLOOR
—-s—	SANITARY/WASTE PIPING ABOVE CEILING
v	VENT PIPING
cw	COLD WATER PIPING
——HW——	HOT WATER PIPING
HWR	HOT WATER RETURN PIPING
—— G ——	NATURAL GAS PIPING
st	STORM PIPING
FD●	FLOOR DRAIN
<u>rd</u> ©	ROOF DRAIN
<u>od</u> ©	OVERFLOW DRAIN
─ ₩─	BALL VALVE
<u> </u>	CHECK VALVE
	BALANCING VALVE
CO •	CLEANOUT
WH H	FROST PROOF WALL HYDRANT
#)	VENT THROUGH ROOF RISER INDICATOR
O	HOT WATER RETURN PUMP



PLUMBING FIRST FLOOR KEYED NOTES

- 1. 3/4" COLD WATER, 3/4" HOT WATER AND 1/2" HOT WATER RETURN PIPING UP AND
- 2. 1/2" HOT AND COLD WATER UP FROM FLOOR BELOW TO SERVE KITCHEN SINK, EXTEND A 1/2" HOT WATER LINE TO SERVE DISHWASHER.
- 1/2" COLD WATER PIPING UP FROM FLOOR BELOW TO SERVE VALVE BOX FOR REFRIGERATOR.
- 4. SANITARY PIPING UP TO SERVE PLUMBING FIXTURE ON FLOOR ABOVE.
- 5. VENT PIPING UP TO TO FLOOR ABOVE.
- 6. STACK WASTE VENT PIPING UP AND DOWN
- 7. 3/4" COLD WATER PIPING UP FROM FLOOR BELOW TO WALL HYDRANT.
- 8. SANITARY PIPING UP AND DOWN.
- 9. PROVIDE A 4" DOWNSPOUT CONNECTION AND ROUTE INTO BUILDING AND DOWN TO BASEMENT.
- ROUTE 3/4" HOT AND COLD WATER THROUGH WALL TO SERVE BATHROOM AND WASHER BOX.

PLATE

Progress Dates 05/05/2023 BID P/E/FP

Revisions

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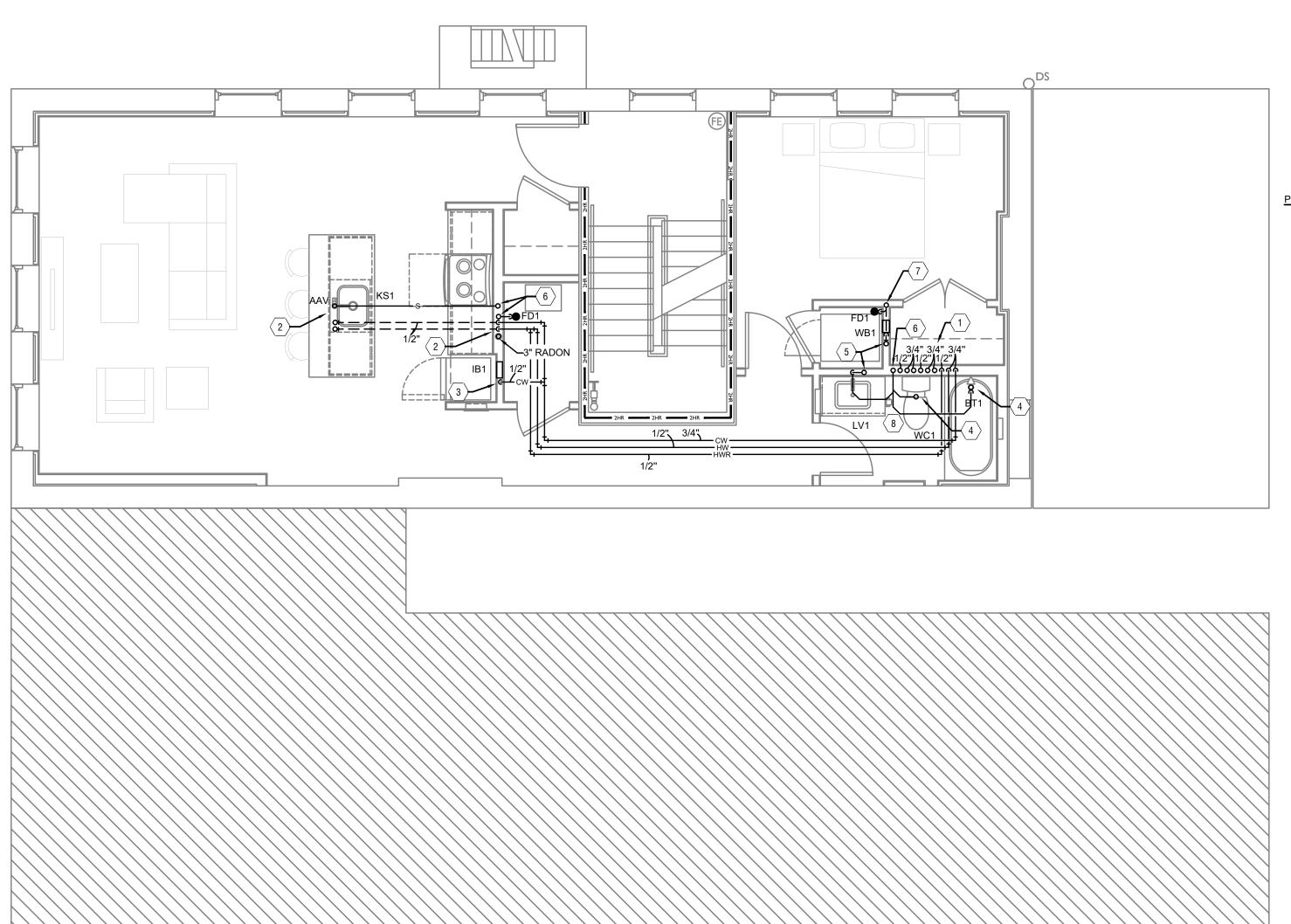
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ION FOR REPUBLIC ST. ATI, OH, 45202

RENOVATION FOR 1806 REPL

Job No: 22042 8/10/2022

	PLUMBING LEGEND
SYMBOL	DESCRIPTION
s	SANITARY/WASTE PIPING BELOW FLOOR
s	SANITARY/WASTE PIPING ABOVE CEILING
v	VENT PIPING
	COLD WATER PIPING
——нw——	HOT WATER PIPING
——HWR——	HOT WATER RETURN PIPING
—— G——	NATURAL GAS PIPING
——st——	STORM PIPING
FD●	FLOOR DRAIN
<u>rd</u> 🔞	ROOF DRAIN
<u>od</u>	OVERFLOW DRAIN
—₩—	BALL VALVE
—и —	CHECK VALVE
— <i>&</i> —	BALANCING VALVE
CO •	CLEANOUT
WH H	FROST PROOF WALL HYDRANT
#	VENT THROUGH ROOF RISER INDICATOR
D	HOT WATER RETURN PUMP



PLUMBING SECOND FLOOR KEYED NOTES

- 1. 3/4" COLD WATER, 3/4" HOT WATER AND 1/2" HOT WATER RETURN PIPING UP AND
- 1/2" HOT AND COLD WATER DOWN IN WALL TO BELOW FLOOR TO SERVE KITCHEN SINK, EXTEND A 1/2" HOT WATER LINE TO SERVE DISHWASHER.
- 1/2" COLD WATER PIPING UP FROM FLOOR BELOW TO SERVE VALVE BOX FOR REFRIGERATOR.
- 4. SANITARY PIPING UP TO SERVE PLUMBING FIXTURE ON FLOOR ABOVE.
- 5. VENT PIPING UP AND DOWN.
- 6. STACK WASTE VENT PIPING UP AND DOWN
- 7. SANITARY PIPING UP AND DOWN.
- 8. ROUTE 3/4" HOT AND COLD WATER THROUGH WALL TO SERVE BATHROOM AND WASHER BOX.

PR-09757

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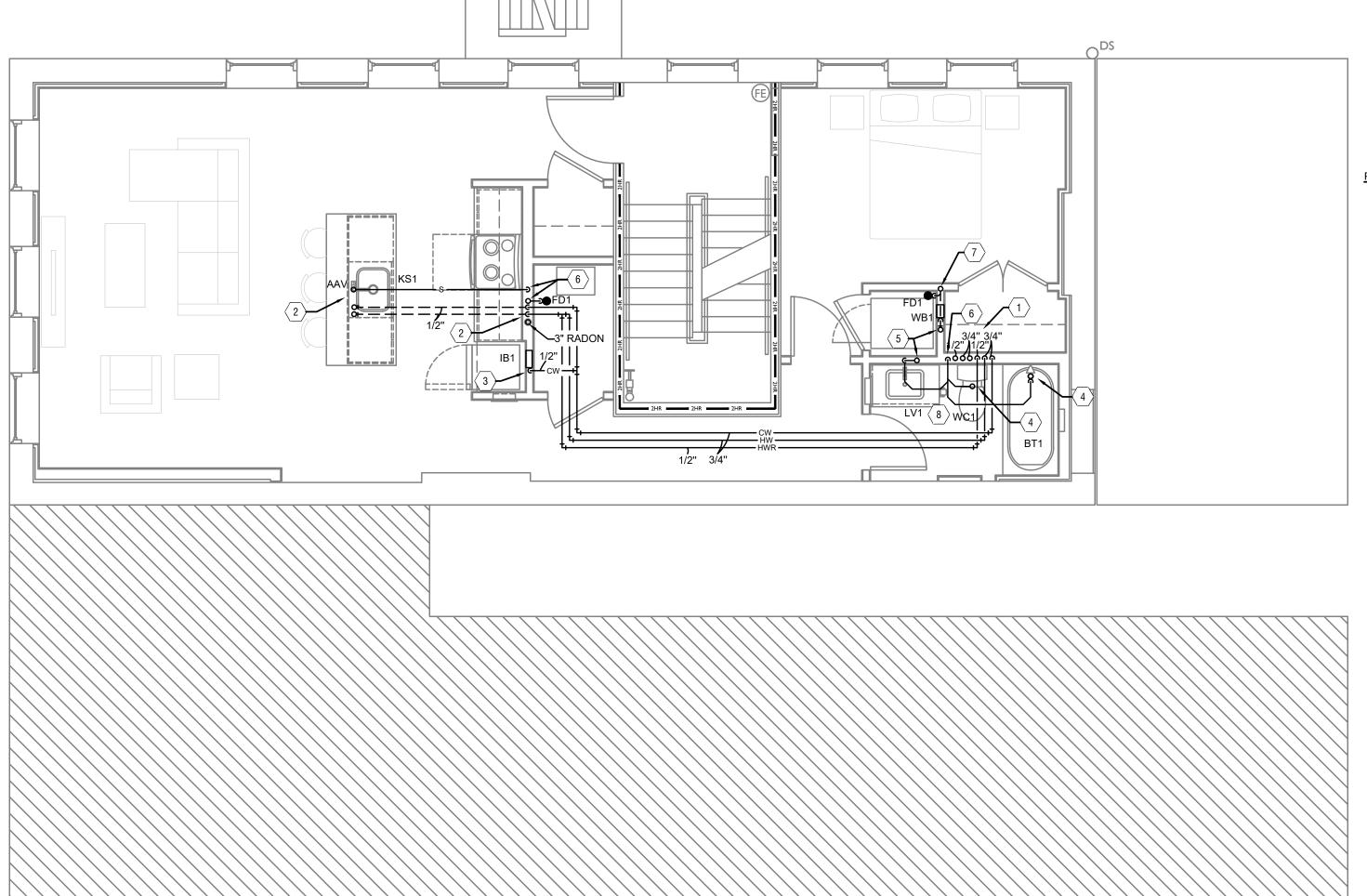
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ATI, OH, 45202

RENOVATION PROJECT:

Job No: 22042 8/10/2022

	PLUMBING LEGEND
SYMBOL	DESCRIPTION
s	SANITARY/WASTE PIPING BELOW FLOOR
—-s—	SANITARY/WASTE PIPING ABOVE CEILING
v	VENT PIPING
cw	COLD WATER PIPING
——НW——	HOT WATER PIPING
——HWR—	HOT WATER RETURN PIPING
—— G ——	NATURAL GAS PIPING
st	STORM PIPING
FD●	FLOOR DRAIN
<u>rd</u> @	ROOF DRAIN
<u>od</u> @	OVERFLOW DRAIN
—₩—	BALL VALVE
—и —	CHECK VALVE
	BALANCING VALVE
CO º	CLEANOUT
WH H	FROST PROOF WALL HYDRANT
#	VENT THROUGH ROOF RISER INDICATOR
Ŋ	HOT WATER RETURN PUMP



PLUMBING THIRD FLOOR KEYED NOTES

- 3/4" COLD WATER, 3/4" HOT WATER AND 1/2" HOT WATER RETURN PIPING UP AND DOWN.
- 1/2" HOT AND COLD WATER DOWN IN WALL TO BELOW FLOOR TO SERVE KITCHEN SINK, EXTEND A 1/2" HOT WATER LINE TO SERVE DISHWASHER.
- 1/2" COLD WATER PIPING UP FROM FLOOR BELOW TO SERVE VALVE BOX FOR REFRIGERATOR.
- 4. SANITARY PIPING UP TO SERVE PLUMBING FIXTURE ON FLOOR ABOVE.
- 5. VENT PIPING UP AND DOWN.
- 6. STACK WASTE VENT PIPING UP AND DOWN
- 7. SANITARY PIPING UP AND DOWN.
- ROUTE 3/4" HOT AND COLD WATER THROUGH WALL TO SERVE BATHROOM AND WASHER BOX.

PR-09757

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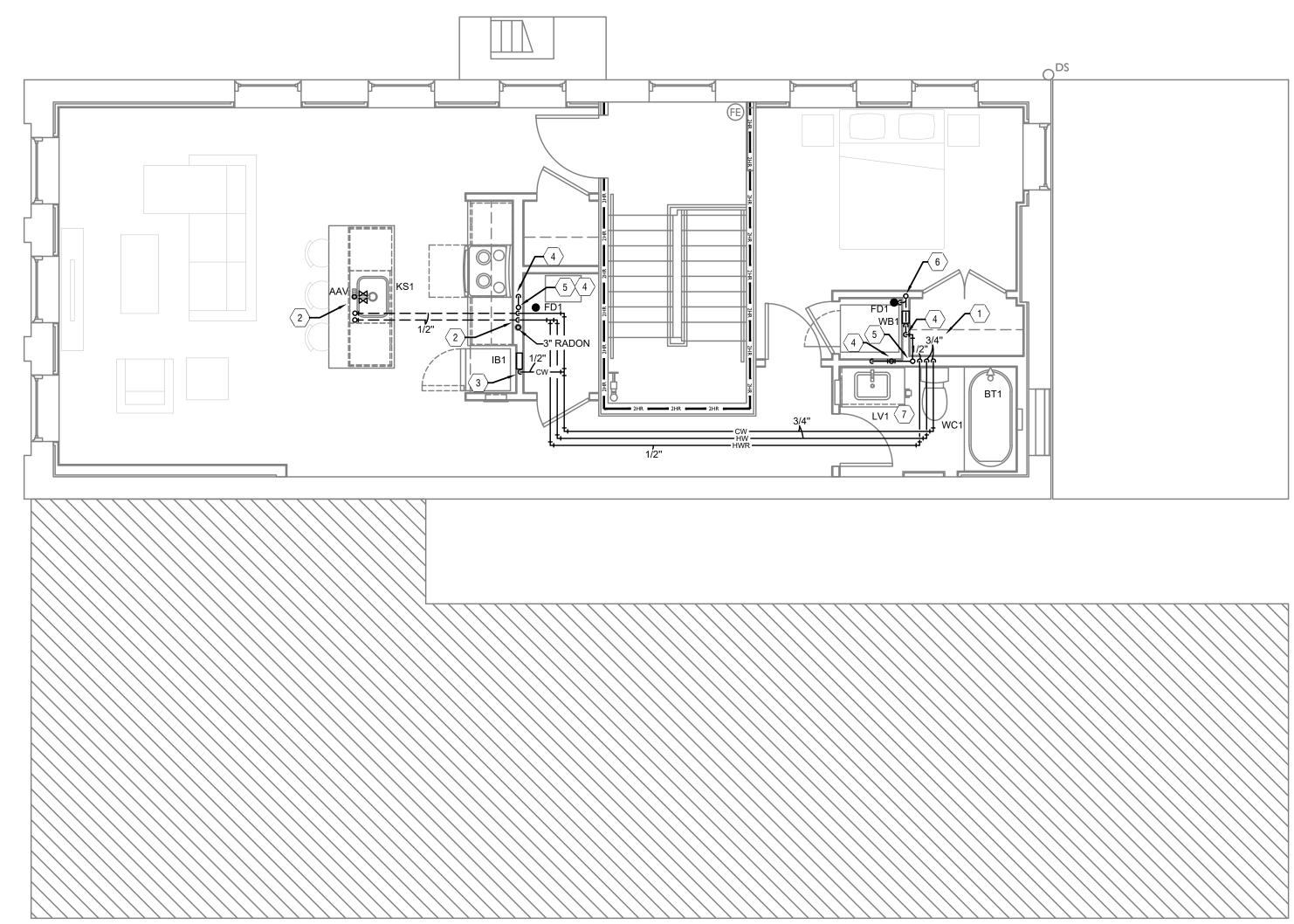
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RENOVATION FOR 1806 REPUBLIC

Job No: 22042 8/10/2022

	PLUMBING LEGEND
SYMBOL	DESCRIPTION
s	SANITARY/WASTE PIPING BELOW FLOOR
—-s—	SANITARY/WASTE PIPING ABOVE CEILING
v	VENT PIPING
	COLD WATER PIPING
——HW——	HOT WATER PIPING
——HWR——	HOT WATER RETURN PIPING
—— G ——	NATURAL GAS PIPING
——ST——	STORM PIPING
FD●	FLOOR DRAIN
<u>RD</u> ⊚	ROOF DRAIN
<u>od</u> @	OVERFLOW DRAIN
──×	BALL VALVE
─ ₩	CHECK VALVE
	BALANCING VALVE
CO •	CLEANOUT
WH H	FROST PROOF WALL HYDRANT
#	VENT THROUGH ROOF RISER INDICATOR
Ω	HOT WATER RETURN PUMP



PLUMBING FOURTH FLOOR KEYED NOTES

- 3/4" COLD WATER, 3/4" HOT WATER AND 1/2" HOT WATER RETURN PIPING UP AND DOWN.
- 2. 1/2" HOT AND COLD WATER DOWN IN WALL TO BELOW FLOOR TO SERVE KITCHEN SINK, EXTEND A 1/2" HOT WATER LINE TO SERVE DISHWASHER.
- 1/2" COLD WATER PIPING UP FROM FLOOR BELOW TO SERVE VALVE BOX FOR REFRIGERATOR.
- 4. VENT PIPING UP FROM FLOOR BELOW.
- 5. VENT PIPING UP TO FLOOR ABOVE.
- 6. SANITARY PIPING DOWN.
- ROUTE 3/4" HOT AND COLD WATER THROUGH WALL TO SERVE BATHROOM AND WASHER BOX.

PLATTE architecture + design

Progress Dates
05/05/2023 BID P/E/FP

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RENOVATION FO

Job No: 22042 8/10/2022

1. GENERAL PLUMBING 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 OHIO TO INSTALL PLUMBING SYSTEMS.
- c. ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH ALL APPLICABLE STATE, LOCAL CODES AND ORDINANCES. THE PLUMBING CONTRACTOR SHALL SATISFY CODE REQUIREMENTS AS A MINIMUM
- d. 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. e. REFER TO ARCHITECTURAL DRAWINGS, GENERAL NOTES, INSTRUCTIONS
- TO BIDDERS, GENERAL CONDITIONS, SUPPLEMENTARY GENERAL CONDITIONS, SPECIFICATIONS, AND DRAWINGS EXCEPT AS NOTED HEREIN WHICH APPLY IN ALL RESPECTS TO THIS SECTION. f. COORDINATE PIPING CHASES, SHAFTS, ABOVE CEILING WORK, ETC. WITH ARCHITECT. ALL DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT FOR
- g. THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING ALL NECESSARY PLUMBING PIPING PENETRATIONS. THIS INCLUDES CORING
- HOLES IN SLABS, ETC h. 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. i. INSTALL EQUIPMENT PER MANUFACTURER'S REQUIREMENTS. MAINTAIN ALL
- CODE RECOMMENDED CLEARANCES. . 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. k. 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.
- 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. PLUMBING FIXTURES 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 8. BACKFLOW PREVENTION 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.

5. 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 TRANSI UCENT PAN DRILL 3/4" 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).

6. DOMESTIC WATER SYSTEMS

- a. PROVIDE A NEW DOMESTIC WATER SERVICE TO THE BUILDING b. PROVIDE SEPARATE VALVE AND TAB METER FOR EACH APARTMENT AND TENANT SPACE.
- c. INTERIOR DOMESTIC WATER PIPING:
- i. WHERE ALLOWED BY CODE, CPVC PIPING CAN BE USED. a. 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

9. HOSE BIBS AND HYDRANTS SPECIFICATION COVERS THE MANUFACTURING REQUIREMENTS FOR CPVC

b. CPVC PIPING LARGER THAN 2" SHALL BE EQUAL TO CORZAN - THIS

SCHEDULE 80 IRON PIPE SIZE (IPS) PIPE AND FITTINGS. BOTH THE PIPE AND

THE REQUIREMENTS SET FORTH BY THE AMERICAN SOCIETY FOR TESTING

COMPOUND MEETS CELL CLASS 24448 AND THE FITTING COMPOUND MEETS

PROPERTIES MEET OR EXCEED THE REQUIREMENTS OF ASTM STANDARDS

FITTINGS ARE MANUFACTURED IN NORTH AMERICA AND MEET OR EXCEED

MATERIALS (ASTM) AND ANSI/NSF STANDARDS 14 AND 61. CPVC PIPE AND

FITTINGS ARE FXTRUDED/MOLDED FROM CPVC COMPOUNDS. THE PIPE

CELL CLASS 23447 AS DEFINED BY ASTM D1784. BOTH THE PIPE AND THE

FITTING COMPOUNDS ARE CERTIFIED BY NSF INTERNATIONAL FOR USE

F441 FOR PIPE, F439 FOR SOCKET FITTINGS AND ASTM F437 OR F439 FOR

THREADED FITTINGS. THREADED FITTINGS HAVE TAPER PIPE THREADS IN

ACCORDANCE WITH ASTM F1498, UNIONS AND FLANGES MEET OR EXCEED

THE REQUIREMENTS OF ASTM F1970. ALL SOCKET TYPE JOINTS SHALL BE

HANDLING OF SOLVENT CEMENTS SHALL BE IN ACCORDANCE WITH ASTM

REQUIREMENTS OF ASTM F493. THE STANDARD PRACTICE FOR SAFE

ASSEMBLED EMPLOYING SOLVENT CEMENTS THAT MEET OR EXCEED THE

F402. SOLVENT CEMENT SHALL BE LISTED BY NSF INTERNATIONAL FOR USE

WATER FILLED PIPE AND FITTINGS (1/2" THROUGH 6") TESTED IN GENERAL

ACCORDANCE WITH UL 723/ASTM E 84 (NFPA 255 AND UBC 8-1) MEETS THE

25/50 FLAME AND SMOKE REQUIREMENT AND SHALL BE PERMITTED TO BE

TESTING LABORATORY SHALL BE OBTAINED AND MADE AVAILABLE UPON

OF ASTM STANDARDS F437, F438 OR F1970. THE PIPE AND FITTINGS

MARKINGS STATE THE PIPE/FITTING MANUFACTURE'S NAME OR

SHALL BE PEX-A TYPE AND FITTINGS SHALL BE EQUAL TO UPONOR

AQUAPEX. TUBING AND FITTINGS MUST CONFORM TO ASTM

ALLOW TUBING TO COME IN CONTACT WITH PIPE THREAD

POTABLE WATER AND THE ASTM DESIGNATION.

REQUEST. THE MARKING ON THE CPVC PIPE MEET THE REQUIREMENTS OF

TRADEMARK, THE MATERIAL DESIGNATION, THE SIZE, THE NSF MARK FOR

ii. WHERE ALLOWED BY CODE, PEX TUBE AND FITTINGS CAN BE USED. TUBING

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

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

FITTINGS. TUBING SHALL BE SUPPORTED IN A MATTER THAT DOES NOT

WITHIN 6" OF FITTINGS OR BENDS. USE BEND SUPPORTS AT 90 DEGREE

PLATES WHERE TUBING PENETRATES STUDS AT FACE OF STUDS. REMOTE

WHERE TUBING IS TERMINATED (MODIFIED HOME-RUN INSTALLATION TYPE).

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

d. CONTROL VALVES SHALL BE MANUFACTURED BY OR APPROVED BY PIPING

f. PROVIDE HOT WATER RETURN PUMP EQUAL TO BELL AND GOSSETT SERIES

3. PROVIDE AUTOMATIC TIMER KIT EQUAL TO BELL AND GOSSETT MODEL TC-1

AND PROGRAM PUMP TO OPERATE TO ACCOMMODATE THE OWNER'S

a. PROVIDE VALVE AND TAB METERS TO ISOLATE WATER USAGE FOR EACH

OF METER AND LOCATE IN AN ACCESSIBLE LOCATION.

b. BACKFLOW PREVENTERS FOR 2" AND SMALLER WATER

SHALL BE CONBRACO AND WILKINS.

MARK

LAVATORY DESCRIPTION

DURAVIT

FIXTURE MANUFACTURER

IUNDERMOUNT

UNDERMOUNT

WC1 | FLOOR-SET TANK

WATER CLOSET DESCRIPTION

DWELLING UNIT AND TENANT SPACE. PROVIDE SHUT-OFF VALVE UPSTREAM

a. PROVIDE REDUCED PRESSURE BACKFLOW PREVENTER ON WATER SERVICE

SERVICES - PROVIDE REDUCED PRESSURE BACKFLOW PREVENTER ON THE

REDUCED PRESSURE BACKFLOW PREVENTER TO BE EQUAL TO WATTS

SERIES LF919QT. APPROVED MANUFACTURERS OF EQUAL PRODUCTS

WATER SERVICE MAIN WHERE THE WATER SERVICE ENTERS THE BUILDING.

100 OR EQUAL PUMP MANUFACTURED BY ARMSTRONG, GRUNDFOS, OR

e. ADJUST ALL STOPS AND VALVES PROPERLY PRIOR TO PROJECT

MANUFACTURER.

HOURS OF OPERATION.

7. TAB METERS FOR DOMESTIC WATER

COMPLETION.

DAMAGE TUBING AND ALLOWS FOR THERMAL EXPANSION. SUPPORTS

BENDS. PROTECT INSTALLED TUBING FROM DAMAGE. INSTALL METAL

MANIFOLD TYPE FITTINGS SHALL BE UTILIZED AT BRANCHES IN ROOMS

UTILIZE EXPANDER TOOLS RECOMMENDED BY MANUFACTURER FOR

LENGTHS, AS DIRECTLY AS POSSIBLE TO REMOTE MANIFOLD WITH MINIMUM

SHALL BE SPACED AT 32" MINIMUM HORIZONTALLY AND 60" VERTICALLY AND

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

ASTM F441 AND THE MARKING ON THE FITTINGS MEETS THE REQUIREMENTS

INSTALLED IN RETURN AIR PLENUMS. TEST REPORTS FROM A THIRD PARTY

WITH POTABLE WATER, AND APPROVED BY THE FITTINGS MANUFACTURERS.

WITH POTABLE WATER. DIMENSIONS, TOLERANCES AND PHYSICAL

- a. PROVIDE FROST-PROOF EXTERIOR WALL HYDRANTS ON EACH ELEVATION
- OF THE BUILDING. b. WALL HYDRANTS TO BE EQUAL TO 3/4" 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.

10. SANITARY AND VENT SYSTEMS

- a. CONNECT NEW SANITARY PIPING TO THE EXISTING SANITARY STACKS AND/OR UNDERGROUND SANITARY BUILDING SEWER. CONTRACTOR SHALL CLEAN AND INSPECT EXISTING UNDERGROUND BUILDING SEWER, SEWER LATERAL AND ALL PIPING INTENDED TO BE REUSED TO DETERMINED CONDITION FOR REUSE. PROVIDE INSPECTION REPORT AND
- RECOMMENDATION TO OWNER. b. CUT AND PATCH BASEMENT SLAB AS REQUIRED TO INSTALL NEW SANITARY 17. VALVES FOR DOMESTIC WATER

c. INTERIOR SANITARY, WASTE, AND VENT PIPING:

i. WHERE NOT INSTALLED IN A PLENUM, 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

ii. WHERE PIPING SHALL BE INSTALLED IN A PLENUM, SANITARY, WASTE, AND

- VENT PIPING WITHIN BUILDING TO BE NO-HUB, CAST-IRON PIPE WITH NO-HUB COUPLINGS CONSISTING OF A STAINLESS STEEL SHIELD, CLAMP. AND NEOPRENE GASKET. COUPLINGS SHALL BE TESTED AND CERTIFIED TO CISPI 310, ASTM C1277, ASTM C564, AND NSF. IDEAL CLAMP PRODUCTS' HEAVY DUTY POW'R GEAR (RED SHIELD) COUPLINGS ARE ALSO APPROVED AND ACCEPTABLE. THESE COUPLINGS ARE LISTED WITH NSF
- INTERNATIONAL AND CONFORM WITH ASTM C1540 PERFORMANCE REQUIREMENTS (SHEAR, DEFLECTION AND UNRESTRAINED THRUST TESTS). d. COORDINATE WITH LOCAL AUTHORITIES FOR DRAINAGE REQUIREMENTS FOR EQUIPMENT DESIGNATED WITH INDIRECT WASTE TO FLOOR DRAINS. PROVIDE PIPED DRAIN TO SANITARY IF REQUIRED BY LOCAL JURISDICTION.

a. PROVIDE FLOOR DRAINS IN ALL TOILET ROOMS THAT HAVE MORE THAN ONE WATER CLOSET OR URINAL.

FLANGE, WEEP HOLES, WITH 9" DIAMETER HEAVY-DUTY DUCTILE IRON

- b. PROVIDE FLOOR DRAINS FOR ALL EQUIPMENT PRODUCING CONDENSATE AND THAT HAVE DRAIN CONNECTIONS.
- c. FLOOR DRAINS IN FINISHED AREAS TO BE PVC BODY. DOUBLE DRAINAGE FLANGE, WEEP HOLES, WITH 6" DIAMETER NICKEL BRONZE STRAINER. d. FLOOR DRAINS IN MECHANICAL SPACE TO BE PVC BODY, DOUBLE DRAINAGE
- STRAINER. e. PROVIDE CAST IRON BODIED FLOOR DRAINS WHERE DRAINS ARE INSTALLED IN A PLENUM (MECHANICAL ROOMS THAT ARE USED AS

12. 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:
- b. 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.

a. CONNECT NEW STORM PIPING TO EXISTING SEWER LATERAL. b. CUT AND PATCH BASEMENT SLAB AS REQUIRED TO INSTALL NEW STORM

c. 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. d. INTERIOR STORM PIPING:

i. WHERE NOT INSTALLED IN A PLENUM, ABOVEGROUND STORM PIPING WITHIN BUILDING SHALL BE SCHEDULE 40 PVC PIPING AND FITTINGS CONFORMING TO ASTM D 2665. SOLID-WALL DRAIN PIPING WITH PV0 SOCKET SOLVENT WELD FITTINGS CONFORMING TO ASTM D2665, MADE TO ASTM D3311, DRAIN, WASTE, AND VENT PATTERNS.

14. STORM PIPING SPECIALTIES

FIXTURE MANUFACTURER | FIXTURE MODEL | FAUCET MANUFACTURER |

316530017

FIXTURE MODEL #

AMERICAN STANDARD | CADET 3 WITH CONCEALED TRAPWAY | NOT APPLICABLE

DELTA

DELTA

- a. PRIMARY ROOF DRAINS MUST HAVE PVC BODY AND POLYETHYLENE DOME. b. SECONDARY ROOF DRAINS MUST HAVE PVC BODY, POLYETHYLENE DOME, AND INTERNAL WATER DAM/EXTENSION COLLAR.
- c. DOWNSPOUT NOZZLES FOR SECONDARY DRAINAGE DISCHARGING TO GRADE MUST HAVE NICKEL-BRONZE BODY AND REMOVABLE STAINLESS-STEEL SCREEN EQUAL TO ZURN Z199-SS.

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.

16. VALVES - GENERAL

- a. 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.
- b. LOCATE SHUT-OFF VALVES ADJACENT TO EQUIPMENT FOR EASY ACCESS SUCH THAT VALVES CAN BE REACHED WITHOUT MOVING EQUIPMENT.

- 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
- c. GENERAL DUTY SHUT-OFF BALL 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
- d. BALANCING VALVES
- . BALANCING VALVES SHALL BE EQUAL TO CIRCUITSOLVER, THERMOSTATIC, SELF-ACTUATING BALANCING VALVES WITH UNIONS, THERMOMETER AND TWO INTEGRATED BALL VALVES.
- e. THERMOSTATIC MIXING VALVES
- i. TEMPERED WATER SHALL BE DELIVERED FROM PUBLIC HAND-WASHING FACILITIES (LAVATORIES AND SINKS) THROUGH AN APPROVED WATER-TEMPERATURE LIMITING DEVICE THAT CONFORMS TO ASSE 1070. SET OUTLET TEMPERATURE OF THERMOSTATIC MIXING VALVE TO 110 DEGREES F. POINT-OF-USE THERMOSTATIC MIXING VALVES SHALL BE EQUAL TO WATTS SERIES USG-B. ROUTE TEMPERED WATER TO HOT WATER SIDE OF SINK/LAVATORY. ACCEPTABLE MANUFACTURERS INCLUDE SYMMONS, LAWLER, LEONARD, POWERS, BRADLEY, AND WATTS.

18. EXPANSION COMPENSATION

- a. PROVIDE EXPANSION COMPENSATION ON ALL PIPING PER PIPING MANUFACTURER'S RECOMMENDATIONS. ACCOUNT FOR PIPE MATERIAL PIPE SIZE, PIPE LENGTHS, TEMPERATURE OF FLUIDS, AND ALL OTHER VARIABLES PERTAINING TO THE INSTALLATION.
- b. INSTALL PIPING TO PREVENT STRAINS AND STRESSES THAT EXCEED THE STRUCTURAL STRENGTH OF THE PIPE. WHERE NECESSARY, PROVISIONS SHALL BE MADE TO PROTECT PIPING FROM DAMAGE RESULTING FROM EXPANSION, CONTRACTION, AND STRUCTURAL SETTLEMENT.
- c. EXPANSION JOINT FITTINGS SHALL BE USED ONLY WHERE NECESSARY TO PROVIDE EXPANSION AND CONTRACTION OF THE PIPES. EXPANSION JOINT FITTINGS SHALL BE OF THE TYPICAL MATERIAL SUITABLE FOR USE WITH THE TYPE OF PIPING IN WHICH SUCH FITTINGS ARE INSTALLED
- d. IN LIEU OF PROVIDING EXPANSION JOINTS, PIPING OFFSETS SHALL BE PERMITTED WHEN INSTALLED PER THE PIPING MANUFACTURER'S RECOMMENDATIONS.

19. HANGERS & SUPPORTS

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.

- a. PROVIDE THERMAL INSULATION ON ALL METALLIC DOMESTIC COLD WATER, DOMESTIC HOT WATER, DOMESTIC HOT WATER RETURN PIPING WITH SELE-SEALING CLOSED CELL ELASTOMERIC FOAM PROVIDE A CONTINUOUS VAPOR TIGHT SEAL. INSULATION SHALL BE CONTINUOUS THRU ALL WALLS AND FLOORS. NFPA FIRE HAZARD RATING FOR INSULATION. ADHESIVES. SEALERS, AND COATINGS MUST NOT EXCEED 25 FOR FLAME SPREAD AND 50 FOR SMOKE DEVELOPED, UNLESS OTHERWISE REQUIRED BY THE LOCAI AUTHORITY OR ENERGY CODES. THE MINIMUM INSULATION LEVELS SHALL BE AS FOLLOWS:
- . PROVIDE 1" THICK ELASTOMERIC INSULATION ON HOT AND HOT WATER RETURN PIPING
- b. PROVIDE INSULATION ON ALL PEX PIPING WHEN USED IN PLENUMS AND WHERE REQUIRED TO MAINTAIN THE REQUIRED FLAME AND SMOKE RATINGS MOST PEX PIPING 3/4" AND SMALLER SHALL BE INSULATED TO MAINTAIN ITS PLENUM RATED PROPERTY IF 18" SEPARATION BETWEEN THE PIPING CANNOT BE PROVIDED.

21. INSULATION FOR HANDICAP ACCESSIBLE FIXTURES (WHERE NOT PROTECTED

a. ALL HANDICAP LAVATORY P-TRAP AND ANGLE STOP ASSEMBLIES SHALL BE INSULATED WITH TRAP WRAP PROTECTIVE KIT MANUFACTURED BY PROFLO MODEL PF200 SERIES OR EQUAL. PROVIDE OFFSET TRAPS FOR HANDICAP ACCESSIBLE FIXTURES WHERE REQUIRED. ABRASION RESISTANT ANTI-MICROBIAL VINYL EXTERIOR COVER SHALL BE SMOOTH. FOR TRAPS THE INSULATION MUST HAVE A CLEANOUT NUT CAP TO ALLOW SERVICE TO THE TRAP WITHOUT DISASSEMBLY. FOR STOPS, THE INSULATION MUST HAVE A LOCK LID THAT PREVENTS TAMPERING BUT ALLOWS ACCESS WITHOUT REMOVAL OF THE INSULATION. FASTENERS MUST REMAIN SUBSTANTIALLY OUT OF SIGHT. ACCEPTABLE MANUFACTURERS INCLUDE PROFLO, TRUEBRO, PLUMBEREX, AND DEARBORN.

22. CONCRETE HOUSEKEEPING PADS

- a. ALL FLOOR-MOUNTED EQUIPMENT SHALL BE INSTALLED LEVEL AND PLUMB ON 4" THICK CONCRETE HOUSEKEEPING PAD.
- 23. ESCUTCHEON PLATES a. INSTALL ONE-PIECE CHROME PLATED BRASS WALL PLATE EQUIPPED WITH
- SET SCREW AROUND ALL EXPOSED PIPE PASSING THROUGH WALLS IN

24. 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. 25. 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.

26. 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

27. 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.

28. 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. BACKFILI UNDER BUILDING AND ALL DRIVES, ROADS AND WALKS WITH BANK-RUN

29. CUTTING AND PATCHING

DISSIMILAR METALS

- a. CUT AND PATCH WALLS AND FLOORS TO MATCH BUILDING CONSTRUCTION WHERE REQUIRED TO INSTALL ALL PLUMBING.
- a. INSTALL UNIONS AT FINAL CONNECTION TO EACH PIECE OF EQUIPMENT INSTALL DIELECTRIC COUPLINGS TO CONNECT PIPING MATERIALS OF

31. INSTALLATION

a. INSTALL PIPING FREE OF SAGS AND BENDS. INSTALL FITTINGS FOR CHANGES IN DIRECTION AND BRANCH CONNECTIONS. INSTALL SLEEVES FOR PIPES PASSING THROUGH CONCRETE AND MASONRY WALLS, GYPSUM-BOARD PARTITIONS, CONCRETE FLOOR, AND ROOF SLABS. SEAL PIPE PENETRATIONS THROUGH RATED CONSTRUCTION WITH FIRESTOPPING SEALANT MATERIAL. UNDERGROUND WATER AND SEWER LINES SHALL BE LAID IN SEPARATE TRENCHES WITH A MINIMUM HORIZONTAL SPACING AS REQUIRED BY CODE, EXCAVATED TO THE PROPER DEPTH AND GRADED TO PRODUCE THE REQUIRED FALL.

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.

- 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.

34. 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.

- 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
- b. RESTORE ANY OTHER EXISTING WORK DAMAGED IN THE COURSE OF REPAIRING DEFECTIVE EQUIPMENT, MATERIALS AND WORKMANSHIP. END OF DIVISION 22 - PLUMBING

05/05/2023 BID P/E/FP

Progress Dates

Checked By: SSS



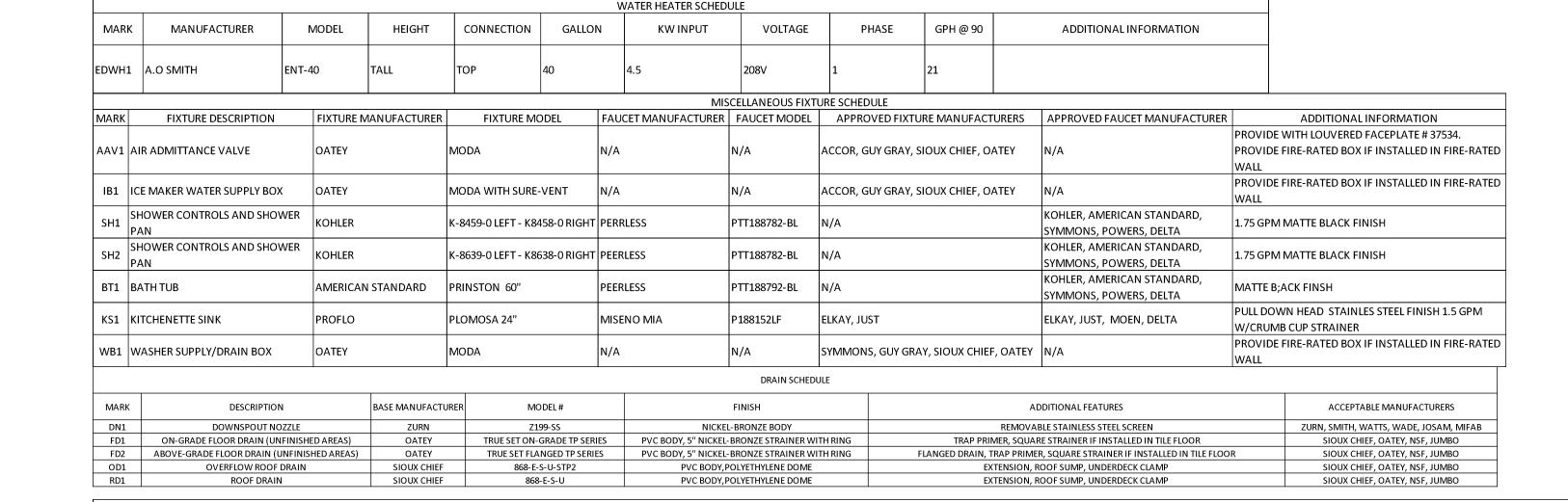
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8/10/2022 Job No: 22042



FAUCET MODEL

MODERN BLACK FINISH | CHINA

MODERN BLACK FINISH CHINA

FLUSH VALVE MODEL

NOT APPLICABLE

MATERIAL

USE

GENERAL

MATERIAI

MOUNTING

UNDERMOUNT

WALL-HUNG

|GENERAL/ADA |FLOOR

USE

STYLE

UNDERMOUNT

ELONGATED

MOUNTING

CONTROL

WATER CLOSET SCHEDULE

FLUSH VALVE TYPE

NOT APPLICABLE MANUAL

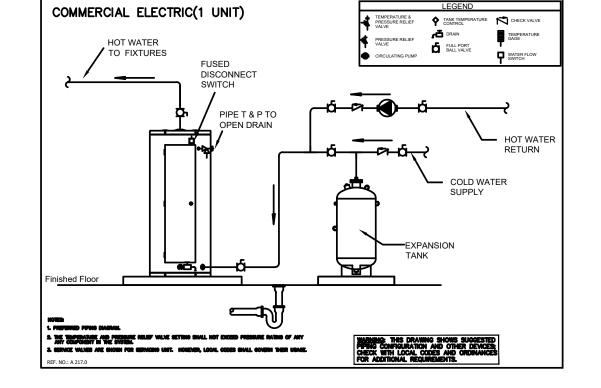
| FLOW RATE | DRAIN | APPROVED FIXTURE MANUFACTURERS

CONTROL

POP-UP AMERICAN STANDARD, KOHLER, ZURN

FLOW RATE

AMERICAN STANDARD, KOHLER, ZURN



APPROVED FAUCET MANUFACTURERS

AMERICAN STANDARD, KOHLER, ZURN, BRADLEY, CHICAGO

FAUCET, SPEAKMAN, T&S, SYMMONS, POWERS, MOEN, DELTA

MERICAN STANDARD, KOHLER, ZURN, BRADLEY, CHICAGO

FAUCET, SPEAKMAN, T&S, SYMMONS, POWERS, MOEN, DELTA

ACCEPTABLE MANUFACTURERS

AMERICAN STANDARD, KOHLER, ZURN

APPROVED FLUSH VALVE MANUFACTURERS | ADDITIONAL INFORMATION

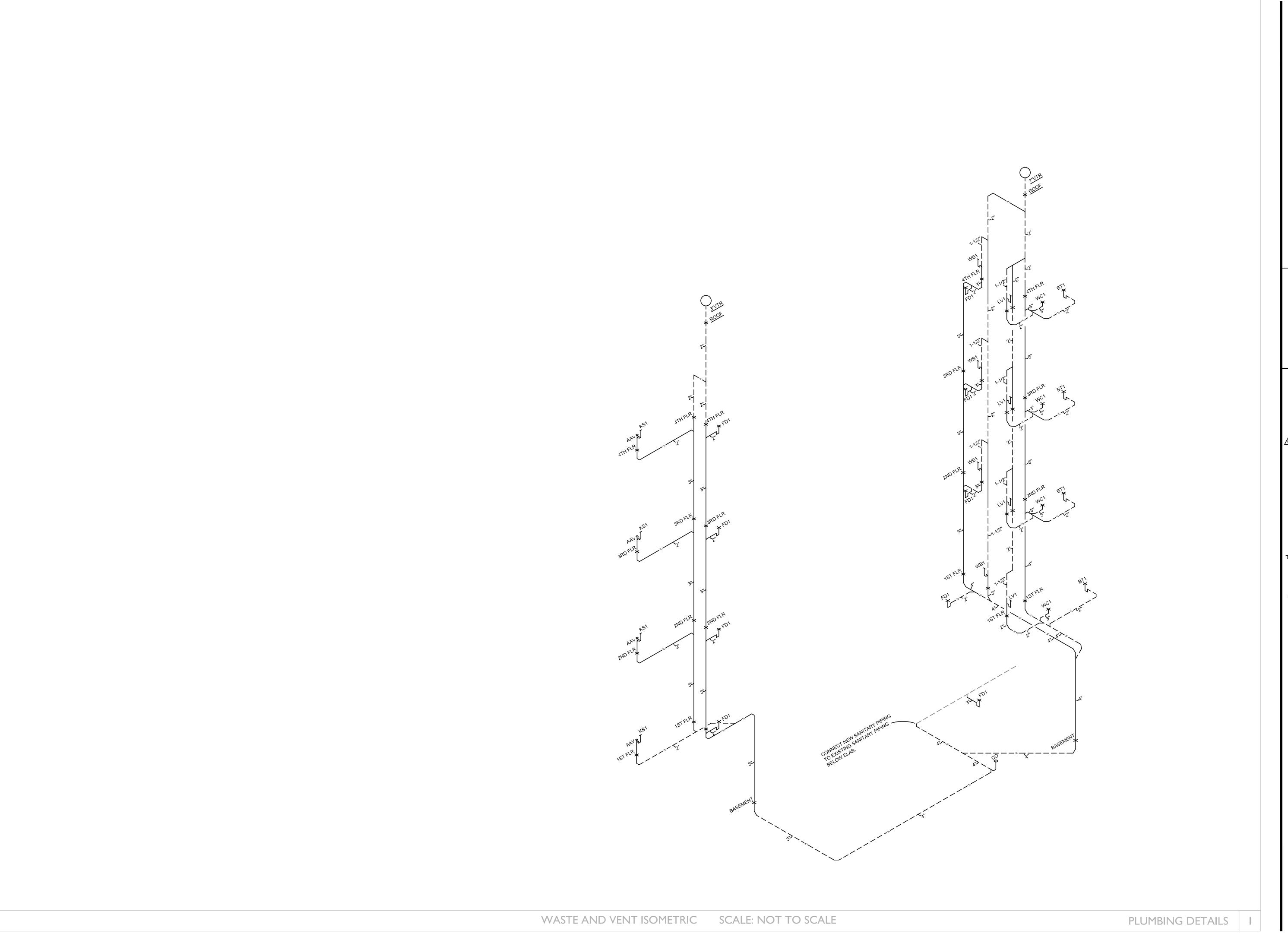
ADDITIONAL INFORMATION

INSULATE SUPPLIES & DRAIN WHERE NOT PROTECTED

NSULATE SUPPLIES & DRAIN WHERE NOT PROTECTED

PROVIDE WITH FLOOR-MOUNTED CARRIER AND

WITH SHROUD



2:\\"Project Directories\\9700-9799\\9757 - Findlay Flats Findlay Parkside (Wilkommen ? Phase II)\\"Construction Documents\\"Phase 1 (8 Buildings)\1806 REPUBLIC\9757-P2-01-PLUMBING-DETALLS.dwg-EBS. Plot Date/Time: May 05, 2023-12:56pm - By: \$(++)
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Progress Dates 05/05/2023 BID P/E/FP Checked By: SSS Drawn by: DAG ENGINEERED BUILDING SYSTEMS INC. TEAMWORK • COLLABORATION
SHARED SUCCESS
515 Monmouth Street, Suite 204
Newport, KY 41071 (859) 261-0585
MEP Consulting Services, Inc. in OH
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