SANTA MARIA COMMUNITY SERVICES

1048 CONSIDINE AVE.
CINCINNATI, OHIO 45205

PROJECT RENDERING

PROJECT CONTACTS

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515 MONMOUTH STREET, STE 201
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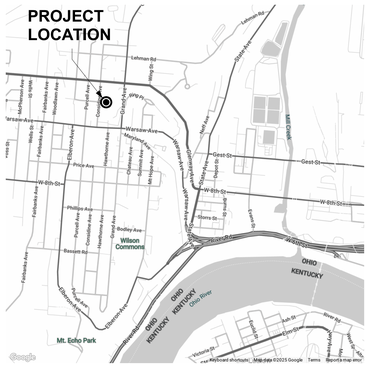
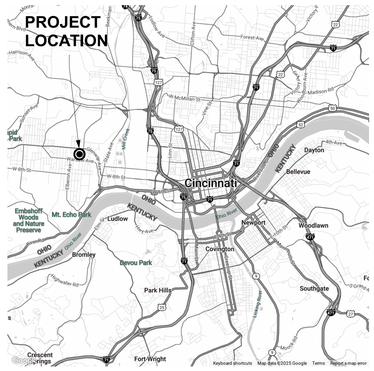
AJ MEYER

AREA MAP



REGIONAL MAP



SHEET INDEX

#	NAME	CURRENT REV	CURRENT REV. DATE
G001	COVER SHEET		
G002	PROJECT INFORMATION		
G003	LIFE SAFETY		
C100	TITLE SHEET		
C101	DETAILS		
C200	EX. CONDITIONS & DEMO PLAN		
C300	GRADING & DETENTION PLAN		
C400	UTILITY PLAN		
C500	SITE LAYOUT PLAN		
A001	ARCHITECTURAL SITE PLAN		
A101	FIRST FLOOR PLAN		
A102	SECOND FLOOR PLAN		
A111	FIRST FLOOR CEILING PLAN		
A112	SECOND FLOOR CEILING PLAN		
A121	ROOF PLAN		
A201	EXTERIOR ELEVATIONS		
A202	EXTERIOR ELEVATIONS		
A301	BUILDING SECTIONS		
A302	BUILDING SECTIONS		
A311	WALL SECTIONS		
A312	WALL SECTIONS		
A401	ENLARGED RESTROOM PLANS ELEVATIONS		
A411	ENLARGED STAIR PLANS & SECTIONS		
A412	ENLARGED STAIR PLANS & SECTIONS		
A413	ENLARGED ELEVATOR PLANS & SECTIONS		
A421	ENLARGED PLANS ELEVATIONS		
A422	ENLARGED PLANS ELEVATIONS		
A423	ENLARGED PLANS ELEVATIONS		
A501	SECTION DETAILS		
A502	PLAN DETAILS		
A521	CASEWORK DETAILS		
A531	DETAILS		
A601	ROOM FINISH SCHEDULE		
A602	DOOR SCHEDULES		
A603	WINDOW TYPES		
S000	GENERAL NOTES, DESIGN LOADS & ABBREVIATIONS		
S101	FOUNDATION PLAN		
S102	TYPICAL FOUNDATION DETAILS		
S103	FOUNDATION SECTIONS		
S201	SECOND FLOOR FRAMING PLAN		
S301	ROOF FRAMING PLAN		
S400	TYPICAL FRAMING DETAILS		
S401	FRAMING DETAILS		
S402	FRAMING SECTIONS		
P001	PLUMBING LEGEND		
P100	FOUNDATION PLAN - PLUMBING		
P101	SANITARY AND VENTING - FIRST FLOOR		
P102	SANITARY AND VENTING - SECOND FLOOR		
P103	PLUMBING ROOF PLAN		
P201	DOMESTIC WATER - FIRST FLOOR		
P202	DOMESTIC WATER - SECOND FLOOR		
P500	PLUMBING ISOMETRIC RISER DIAGRAM		
P600	PLUMBING SCHEDULES AND CALCULATIONS		
P601	PLUMBING SPECIFICATIONS		
M000	MECHANICAL LEGEND		
M101	MECHANICAL FIRST FLOOR		
M102	MECHANICAL SECOND FLOOR		
M103	MECHANICAL ROOF		
M300	MECHANICAL DETAILS		
M301	MECHANICAL DETAILS		
M302	MECHANICAL DETAILS		
E000	ELECTRICAL AND FIRE ALARM LEGEND		
E001	ONELINE POWER DIAGRAM		
E002	ELECTRICAL PANEL SCHEDULES		
E101	FIRST FLOOR - POWER		
E102	SECOND FLOOR - POWER		
E103	ROOF POWER		
E201	LIGHTING - FIRST FLOOR		
E202	LIGHTING - SECOND FLOOR		
E300	ELECTRICAL SPECIFICATIONS		

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CINCINNATI, OHIO 45205

CERTIFICATION

STATE OF OHIO
ROBERT N. HUMASON
14056
REGISTERED ARCHITECT

REVISIONS

#	DATE	DESCRIPTION
	01-09-26	80% PROGRESS
	01-30-26	PERMIT ISSUE

PROJECT #: 25109

DRAWN: TDS **CHECKED:** RNH

COVER SHEET

G001

GENERAL CONSTRUCTION NOTES

1. FOR TYPICAL NON-LOAD BEARING PARTITIONS. REFER USG STEEL-FRAMED DRYWALL SYSTEMS "LIMITING HEIGHT - STEEL STUD ASSEMBLIES CHART. USE THE L/240 ALLOWABLE DEFLECTION FIGURES ONLY.
2. DIMENSIONS ARE TO FACE OF GYPSUM BOARD, COLUMN LINE OR FACE OF MASONRY.
3. MINIMUM DIMENSION FROM ANY CORNER OR WALL TO FRAMING STUD AT DOOR JAMB OPENING SHALL BE 4" (U.N.O.).
4. PROVIDE METAL OR F.R.T. WOOD BLOCKING FOR ALL SIGNS AND ANY OTHER WALL MOUNTED EQUIPMENT.
5. G.C. TO VERIFY ALL FINISHED DIMENSIONS. FIELD CONDITIONS ALTERING ANY DIMENSIONS SHOULD BE BROUGHT TO THE ATTENTION OF THE OWNER AND ARCHITECT.
6. CONVENIENCE OUTLETS MOUNTED BY APPLICABLE REGULATORY REQUIREMENTS U.N.O. CONVENIENCE OUTLETS TO MATCH ADJACENT WALL COLOR AS REQUIRED. OUTLETS TO BE LOCATED SO AS TO BE AS INCONSPICUOUS AS POSSIBLE AT 18" A.F.F. U.N.O.
7. ALL EXIT DOORS SHALL BE READILY OPENED FROM THE SIDE FROM WHICH EGRESS IS TO BE MADE WITHOUT USE OF KEY OR SPECIAL KNOWLEDGE. ALL EXIT DOORS SHALL HAVE ALL HARDWARE NECESSARY TO SATISFY THE REQUIREMENTS OF THE AUTHORITIES HAVING JURISDICTION.
8. ALL INTERIOR FINISH AND TRIM MATERIALS SHALL MEET APPLICABLE REGULATORY REQUIREMENTS FOR CLASS C FLAME SPREAD INDEX 76-200 AND SMOKE DEVELOPED INDEX 0-450 RATINGS.
9. THE G.C. SHALL PROVIDE THE OWNER WITH ALL EQUIPMENT MANUALS, WARRANTIES AND OPERATING INSTRUCTIONS UPON FINAL ACCEPTANCE.
10. THE G.C. SHALL SUPPLY ALL MATERIALS, LABOR AND COORDINATION REQUIRED FOR THE INSTALLATION OF ALL OWNER-SUPPLIED ITEMS AS DESCRIBED IN THE DOCUMENTS, U.N.O.
11. THE G.C. IS RESPONSIBLE FOR ALL FLOOR AND WALL PENETRATIONS FOR ELECTRICAL AND MECHANICAL WORK. ALL SUCH OPENINGS SHALL BE FRAMED AND REINFORCED. SEE STRUCTURAL DWGS. FOR REQUIREMENTS FOR ALL SLAB PENETRATIONS.
12. THE G.C. SHALL CLEAN THE SITE OF ALL UNNECESSARY DEBRIS PRIOR TO STARTING CONSTRUCTION, AND SHALL KEEP THE SITE NEAT AND CLEAN AT ALL TIMES. THE G.C. SHALL CLEAN ALL DOORS, WINDOW GLASS, INTERIOR AND EXTERIOR WALLS, CEILINGS AND FLOORS, AS WELL AS ALL INSTALLED ITEMS (FIXTURES) BEFORE FINAL TURNOVER.
13. ANY DECORATIONS USED SHALL BE NON COMBUSTIBLE OR BE FLAME RETARDANT IN AN APPROVED MANNER AS REQUIRED.
14. REFER TO ELECTRICAL DRAWINGS FOR EXACT NUMBER, LOCATION, AND TYPE OF LIGHT FIXTURES TO BE PROVIDED. SUBMIT SHOP DRAWINGS ON ALL FIXTURES.
15. IF REQUIRED ALL STRUCTURAL FRAMING, HANGERS, CHANNELS, RODS AND OTHER MISCELLANEOUS SUPPORT STEEL SHALL BE PROVIDED BY THE G.C. PROPER SUPPORT OF SUSPENDED / SUPPORTED EQUIPMENT SHALL BE FASTENED TO STEEL, CONCRETE, OR MASONRY. G.C. TO COORDINATE WITH STRUCTURAL ENGINEER, IF REQUIRED, FOR INSTALLATION OF ALL EQUIPMENT.
16. ALL NOTED CEILING DIMENSIONS ARE INDICATED AS CLEAR ABOVE FINISHED FLOOR DIMENSIONS. ALL DIMENSIONS ARE TO FINISH FACE, U.N.O.
17. REFER ELECTRICAL DRAWINGS FOR ELECTRICAL REQUIREMENTS.
18. PAINTING MUST NOT COVER OR AFFECT THE FOLLOWING: SPRINKLER HEADS, PIPE OR CONDUIT LABELING, FIRE / SMOKE DETECTION SENSORS, AUDIO VISUAL ALARM DEVICES OR MANUFACTURER AND UL SPECIFICATION LABELS.
19. ALL WEATHER BARRIER INDICATED IN DETAILS AND SECTIONS IMPLIES COMPLETE RESISTANCE TO ALL WEATHER, AIR, WATER AND MOISTURE. ALL WEATHER BARRIER INSTALLATION TO BE PER MANUFACTURER'S STANDARDS, RECOMMENDATIONS AND DETAILS TO INSURE CLOSURE OF ALL BUILDING EDGES AND TRANSITIONS.
20. THE GENERAL CONTRACTOR (G.C.) IS RESPONSIBLE FOR ENSURING COMPLIANCE WITH ALL APPLICABLE LAWS AND REGULATIONS. ALL WORK SHALL CONFORM TO THE LATEST EDITIONS OF APPLICABLE BUILDING CODES, FIRE CODES, ACCESSIBILITY CODES, ENERGY CODES, AND LOCAL ORDINANCES.
21. THE G.C. SHALL OBTAIN ALL NECESSARY PERMITS AND SCHEDULE INSPECTIONS AS REQUIRED BY THE AUTHORITIES HAVING JURISDICTION (AHJ). NO WORK SHALL BE CONCEALED WITHOUT PRIOR APPROVAL FROM INSPECTORS.
22. THE G.C. SHALL SUBMIT SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES AS REQUIRED FOR REVIEW AND APPROVAL BEFORE FABRICATION OR INSTALLATION. NO SUBSTITUTIONS SHALL BE MADE WITHOUT WRITTEN APPROVAL.
23. THE G.C. SHALL MAINTAIN AN ACCURATE SET OF AS-BUILT DRAWINGS DURING CONSTRUCTION AND SUBMIT THEM TO THE OWNER AND ARCHITECT UPON PROJECT COMPLETION.
24. THE G.C. SHALL COORDINATE ALL TRADES TO AVOID CONFLICTS IN SPACE ALLOCATION, INSTALLATION SEQUENCING, AND FINAL FINISHING.
25. ALL PENETRATIONS THROUGH FIRE-RATED WALLS, FLOORS, AND CEILINGS SHALL BE PROPERLY SEALED WITH APPROVED FIRESTOPPING MATERIALS.
26. ALL FIRE-RATED PARTITIONS AND ASSEMBLIES SHALL BE CONSTRUCTED IN STRICT ACCORDANCE WITH UL LISTED DESIGNS AND APPLICABLE FIRE CODES.

GENERAL PROJECT NOTES

1. PRIOR TO COMMENCEMENT OF THE PROJECT, THE GENERAL CONTRACTOR SHALL PROVIDE EVIDENCE OF ALL REQUIRED FORMS OF INSURANCE TO OWNER'S CONSTRUCTION MANAGER AND LOCAL AUTHORITIES. GC/PM MUST PROVIDE A LIST OF SUBCONTRACTORS, A CURRENT SCOPE OF WORK AND TIMETABLE, AND ALL OTHER LANDLORD REQUIRED DOCUMENTS, PRIOR TO WORK COMMENCING.
2. ALL REQUIRED PERMITS MUST BE OBTAINED FROM THE REQUIRED GOVERNING AGENCIES PRIOR TO THE START OF CONSTRUCTION.
3. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR AND OBTAIN ALL INSPECTIONS AND LICENSES AND PAY REQUIRED FEES.
4. CONTRACTOR SHALL KNOW AND UNDERSTAND LOCAL CODES AND PROCEDURES AND SHALL COMPLY WITH ALL REQUIREMENTS.
5. DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED DRAWINGS.
6. ANY DISCREPANCIES BETWEEN THE DRAWINGS AND SPECIFICATIONS SHALL BE BROUGHT TO THE ARCHITECTS' ATTENTION IMMEDIATELY.
7. GENERAL CONTRACTOR SHALL COORDINATE WORK PERFORMED BY OTHER CONTRACTORS, INCLUDING THOSE NOT CONTRACTED DIRECTLY UNDER THEM.
8. ALL SUBSTITUTIONS MUST BE SUBMITTED TO THE ARCHITECT AND OWNER FOR APPROVAL DURING THE BIDDING PROCESS.
9. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE TIMELY ARRIVAL OF ALL MATERIALS, EQUIPMENT, FIXTURES AND ANY OTHER SUCH MATERIAL(S) TO BE UTILIZED ON THIS PROJECT. THE GENERAL CONTRACTOR SHALL NOTIFY THE OWNER & THE ARCHITECT IN WRITING WITHIN (10) DAYS OF DATE OF CONTRACT OF THOSE SPECIFIED ITEMS THAT MAY NOT BE READILY AVAILABLE. IF NOTIFICATION IS NOT RECEIVED BY THE ARCHITECT & OWNER, THE CONTRACTOR ACCEPTS RESPONSIBILITY FOR THE PROPER ORDERING AND FOLLOW-UP OF SPECIFIED ITEMS AND WILL PURSUE WHATEVER MEANS NECESSARY AT NO ADDITIONAL COST TO THE OWNER, TO ASSURE AVAILABILITY OF ALL SPECIFIED ITEMS SO AS NOT TO CREATE A HARDSHIP ON THE OWNER & NOT DELAY PROGRESS OF THE WORK.
10. FIRE PROTECTION / ALARM DOCUMENTATION TO BE BY DESIGN/BUILD.
11. MECHANICAL CONTRACTOR SHALL VERIFY EXACT DIMENSIONS WITH EQUIPMENT MANUFACTURERS. MECHANICAL CONTRACTOR SHALL COORDINATE ALL SIZES AND LOCATIONS OF DUCT OPENINGS BEFORE INSTALLATION AND VERIFY DISCREPANCIES WITH THE ARCHITECT, IF ANY.
12. SEALANTS: ALL OPEN JOINTS, PENETRATIONS AND OTHER OPENINGS IN THE BUILDING ENVELOPE SHALL BE SEALED, CAULKED, GASKETED, OR WEATHERSTRIPPED TO LIMIT AIR/WATER LEAKAGE AND MEET CODE REQUIREMENTS.
13. SAFETY: ALL CONDUCT, WORK, EQUIPMENT AND MATERIALS SHALL BE IN FULL ACCORDANCE WITH THE LATEST SAFETY RULES AND REGULATIONS OF ALL AUTHORITIES AND AGENCIES HAVING JURISDICTION AND BE THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
14. ANY MATERIALS FOUND TO BE DEFECTIVE SHALL BE REMOVED AND REPLACED AT NO ADDITIONAL COST TO THE OWNER.
15. THE CONTRACTOR SHALL REMEDY, WITHOUT COST TO THE OWNER, ANY DEFECTS DUE TO FAULTY WORKMANSHIP.
16. G.C. IS RESPONSIBLE FOR KEEPING A PERMIT SET, CONSTRUCTION SET, RFI'S, ARCHITECTURAL SKETCHES, AND CONSTRUCTION SCHEDULE ON SITE AT ALL TIMES.
17. THE G.C. SHALL GUARANTEE IN WRITING ALL WORK, MATERIALS, AND EQUIPMENT FOR A MINIMUM PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE. THE G.C. SHALL PROVIDE THE OWNER WITH ALL EQUIPMENT MANUALS, WARRANTIES AND OPERATING INSTRUCTIONS UPON FINAL ACCEPTANCE. SHOULD DEFECTS OCCUR, ALL WORK SHALL BE REPLACED OR PROPERLY REPAIRED AT NO ADDITIONAL COST TO THE OWNER.
18. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING MECHANICAL, PLUMBING AND ELECTRICAL SYSTEMS, AND FOR PROVIDING ALL NECESSARY BLOCKING AND/OR FRAMING REQUIRED FOR THE INSTALLATION OF SAID MECHANICAL, PLUMBING, AND ELECTRICAL SYSTEMS.
19. THE G.C. SHALL BE RESPONSIBLE FOR COORDINATING WITH OWNER ON ALL WORK TO BE PERFORMED BY THE OWNER. ANY POTENTIAL CONFLICTS OR DELAYS CAUSED BY THE OWNER'S SUBCONTRACTORS MUST BE DOCUMENTED IN WRITING TO THE ARCHITECT AND THE OWNER BEFORE THE DELAY IS ACTUALLY INCURRED FOR IT TO BE CONSIDERED. OTHERWISE THE G.C. WILL BE RESPONSIBLE FOR MEETING THE SCHEDULE AS OUTLINED IN THE CONTRACT.
20. THE G.C. SHALL SUPPLY ALL MATERIALS, LABOR AND COORDINATION REQUIRED FOR THE INSTALLATION OF ALL OWNER SUPPLIED ITEMS AS DESCRIBED IN THE DOCUMENTS.
21. ALL EXTRA WORK MUST BE WRITTEN UP BY THE G.C. IN THE FORM OF A CHANGE ORDER. INDICATED ON IT MUST BE A FIRM PRICE FOR THE WORK. ALL CHANGE ORDERS MUST BE SUBMITTED TO THE OWNER FOR APPROVAL PRIOR TO COMMENCEMENT OF WORK.

ABBRIEVIATIONS

Ø	DIAMETER
℄	CENTER LINE
#	POUND/ NUMBER
&	AND
@	AT
W/	WITH
⍯	SQUARE FEET
A/C	AIR CONDITIONING
ACT	ACOUSTICAL
CEILING TILE	
ADA	AMERICANS W/ DISABILITIES
ACT	
ADDL	ADDITIONAL
AFF	ABOVE FINISH
FLOOR	
AFG	ABOVE FINISH
GRADE	
AHU	AIR HANDLING UNIT
AHJ	AUTHORITY HAVING JURISDICTION
ALT	ALTERNATE
ALUM	ALUMINUM
ARCH	ARCHITECT
BD	BOARD
BFF	BELOW FINISH
FLOOR	
BLDG	BUILDING
BOM	BOTTOM OF
MULLION	
BOR	BOTTOM OF REVEAL
CAB	CABINET
CJ	CONTROL JOINT/ CONSTRUCTION JOINT
CLG	CEILING
CIP	CAST-IN-PLACE
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONSTR	CONSTRUCTION
CONT	CONTINUE
CORR	CORRIDOR
CT	CERAMIC TILE
DF	DRINKING FOUNTAIN
DIM	DIMENSION
DIST	DISTANCE
DS	DOWNSPOUT
DWG	DRAWING
EIFS	EXTERIOR INSULATED FINISH SYSTEM
EJ	EXPANSION JOINT
ELEC	ELECTRIC
ELEV	ELEVATOR
EQ	EQUAL
EX	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
FD	FLOOR DRAIN
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FLR	FLOOR OR FLOORING
FLUOR	FLUORESCENT
FIN	FINISH
FIXT	FIXTURE
FV	FIELD VERIFY
GA	GAUGE
GALV	GALVANIZED
GYP	GYPSUM
HB	HOSE BIB
HDW	HARDWARE
HM	HOLLOW METAL
HNDRL	HANDRAIL
HORIZ	HORIZONTAL
HT	HEIGHT
INSUL	INSULATION
INFO	INFORMATION
INT	INTERIOR
JAN	JANITOR
LAV	LAVATORY
LDG	LANDING
LT	LIGHT
LWC	LIGHTWEIGHT CONCRETE
MAX	MAXIMUM
MFR	MANUFACTURER
MIN	MINIMUM
MO	MASONRY OPENING
MTD	MOUNTED
MTL	METAL
MULL	MULLION
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OC	ON CENTER
OF/CI	OWNER FURNISHED/ CONTRACTOR INSTALLED
OF/OI	OWNER FURNISHED/ OWNER INSTALLED
OPH	OPPOSITE HAND
PLAM PLYWD	PLASTIC LAMINATE PLYWOOD
PR	PAIR
PTD	PAINTED
R RISERS	RADIUS, RISER OR
RD	ROOF DRAIN
REQD	REQUIRED
REV	REVISION
RM	ROOM
RO	ROUGH OPENING
RTU	ROOF TOP UNIT
SCWD	SOLID CORE WOOD DOOR
SECT	SECTION
SIM	SIMILAR
SPECD	SPECIFIED
SQ	SQUARE
SST	STAINLESS STEEL
STO STRUCT	STORAGE STRUCTURAL
TOC	TOP OF CURB
TOM	TOP OF MULLION
TOP	TOP OF PARAPET
TOR	TOP OF REVEAL
TOS	TOP OF SLAB
TW	TILTWALL
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VCT TILE	VINYL COMPOSITION
VERT	VERTICAL
VEST	VESTIBULE
W/O	WITHOUT
WD	WOOD
WDW	WINDOW

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#	DATE	DESCRIPTION
	01-09-26	80% PROGRESS

PROJECT #: 25109

DRAWN: TDS **CHECKED:** RNH

PROJECT INFORMATION

G002

PLUMBING FIXTURE CALCULATIONS

FIRST FLOOR OCCUPANT LOAD	Male	Female
A-3 ASSEMBLY - 100.46 (101) OCC. LOAD	51	51
M MERCANTILE - 24.52 (25) OCC. LOAD	13	13
S STORAGE - 4.49 (5) OCC. LOAD	3	3
B BUSINESS - 23.19 (24) OCC. LOAD	12	12
TOTAL	79	79
WATER CLOSETS REQUIRED		
A-3 ASSEMBLY	.4 (1/125)	.78 (1/65)
M MERCANTILE	.03 (1/500)	.03 (1/500)
S STORAGE	.03 (1/100)	.03 (1/100)
B BUSINESS	.48 (1/25, 1/50)	.48 (1/25, 1/50)
TOTAL REQUIRED	.94 (1)	1.32 (2)
TOTAL PROVIDED	5	6
URINALS PROVIDED	0	---
LAVATORIES REQUIRED		
A-3 ASSEMBLY	.26 (1/200)	.26 (1/200)
M MERCANTILE	.02 (1/750)	.02 (1/750)
S STORAGE	.03 (1/100)	.03 (1/100)
B BUSINESS	.3 (1/40,1/80)	.3 (1/40,1/80)
TOTAL REQUIRED	.61 (1)	.61 (1)
TOTAL PROVIDED	5	6
DRINKING FOUNTAINS REQUIRED		
A-3 ASSEMBLY	.1 (1/500)	.1 (1/500)
M MERCANTILE	.01 (1/1000)	.01 (1/1000)
S STORAGE	.01 (1/1000)	.01 (1/1000)
B BUSINESS	.12 (1/100)	.12 (1/100)
TOTAL REQUIRED	.24 (1)	.24 (1)
TOTAL PROVIDED	1	1

SECOND FLOOR OCCUPANT LOAD	MALE	FEMALE
A-3 ASSEMBLY - 66.48 (67) OCC. LOAD	34	34
S STORAGE - 1.89 (2) OCC. LOAD	1	1
B BUSINESS - 77.54 (78) OCC. LOAD	39	39
TOTAL	74	74
WATER CLOSETS REQUIRED		
A-3 ASSEMBLY	.27 (1/125)	.52 (1/65)
S STORAGE	.01 (1/100)	.01 (1/100)
B BUSINESS	1.56 (1/25,1/50)	1.56 (1/25,1/50)
TOTAL REQUIRED	1.84 (2)	2.09 (3)
TOTAL PROVIDED	3	3
URINALS PROVIDED	0	---
LAVATORIES REQUIRED		
A-3 ASSEMBLY	.17 (1/200)	.17 (1/200)
S STORAGE	.01 (1/100)	.01 (1/100)
B BUSINESS	.98 (1/40,1/80)	.98 (1/40,1/80)
TOTAL REQUIRED	1.16 (2)	1.16 (2)
TOTAL PROVIDED	3	3
DRINKING FOUNTAINS REQUIRED		
A-3 ASSEMBLY	.07 (1/500)	.07 (1/500)
S STORAGE	.01 (1/1000)	.01 (1/1000)
B BUSINESS	.39 (1/100)	.39 (1/100)
TOTAL REQUIRED	.47 (1)	.47 (1)
TOTAL PROVIDED	0	0

OCCUPANCY SCHEDULE

#	ROOM NAME	AREA		
100	VESTIBULE	86 SF		
101	LOBBY	625 SF		
102	INTAKE	126 SF		
103	PROGRAM COPY	120 SF		
104	STABLE FAM.	100 SF		
105	STABLE FAM.	101 SF		
106	STABLE FAM.	101 SF		
107	STABLE FAM.	100 SF		
108	WELLNESS	100 SF		
109	WELLNESS	100 SF		
110	WELLNESS	134 SF		
111	CORR.	384 SF		
112	IT WORKPLACE	324 SF		
113	FIN. SECURE STORAGE	222 SF		
114	SECURE STORAGE	205 SF		
115	IT STORAGE	93 SF		
116	SERVER	90 SF		
117	MECH. / ELEC.	456 SF		
118	CORR.	133 SF		
119	LOADING DOCK	284 SF		
120	CORRIDOR	303 SF		
121	ADA UNISEX	55 SF		
122	UNISEX	37 SF		
123	ADA UNISEX	55 SF		
124	JAN.	28 SF		
125	CLOSET	40 SF		
126	STABLE FAM.	112 SF		
127	VOLUNTEER COORD.	112 SF		
128	ADA UNISEX	55 SF		
129	UNISEX	37 SF		
130	UNISEX	38 SF		
131	UNISEX	38 SF		
132	LAUNDRY	50 SF		
133	CORR.	310 SF		
134	CLOTHES PANTRY	123 SF		
135	ADA SHOWER	79 SF		
136	STORAGE	100 SF		
137	LACTATION	63 SF		
138	MAIL	115 SF		
139	INTERN/VOL. STATIONS	122 SF		
140	LOCKERS	94 SF		
141	BREAK	348 SF		
142	TABLE STOR.	138 SF		
143	CORR.	128 SF		
144	CORR.	118 SF		
145	DONATION PANTRY	1471 SF		
146	SUPPLY/DIAPER STOR.	164 SF		
147	ADA UNISEX	55 SF		
148	UNISEX	37 SF		
149	CORR.	359 SF		
150	MTG. / FOOD DIST. WAITING	392 SF		
151	MEETING	1128 SF		
152	CORR.	303 SF		
153	HOTEL	81 SF		
154	HOTEL	82 SF		
155	CHILD ADA UNISEX	81 SF		
156	INTAKE	114 SF		
157	FAMILY INTAKE / PLAYROOM	384 SF		
200	CORR.	378 SF		
201	WAITING	628 SF		
202	CORR.	Redundant Room		
203	CEO	219 SF		

OCCUPANCY SCHEDULE

#	ROOM NAME	AREA		
204	CFO	214 SF		
205	CFO	199 SF		
206	FINANCE	102 SF		
207	FINANCE	102 SF		
208	EXTERIOR DECK	1004 SF		
209	ALCOVE	Redundant Room		
210	FINANCE	101 SF		
211	HR OFFICE	171 SF		
212	CORR.	333 SF		
213	FIN. SECURE STOR.	167 SF		
214	ADMIN. COPY	148 SF		
215	CORR.	161 SF		
216	DEV. TEAM	119 SF		
217	DEV. TEAM	124 SF		
218	DEV. TEAM	123 SF		
219	CHIEF DEV. OFFICER	199 SF		
220	DEV. TEAM STORAGE	102 SF		
221	GED TESTING COMPUTER LAB	326 SF		
222	GED TRAINING CLASSROOM	435 SF		
223	SMALL MEETING RM.	228 SF		
224	STORAGE	203 SF		
225	YOUTH EQUIV.	132 SF		
226	YOUTH EQUIV.	97 SF		
227	YOUTH EQUIV.	100 SF		
228	YOUTH EQUIV.	101 SF		
229	YOUTH EQUIV.	100 SF		
230	YOUTH EQUIV.	101 SF		
231	YOUTH EQUIV.	100 SF		
232	YOUTH EQUIV.	101 SF		
233	YOUTH EQUIV.	100 SF		
234	YOUTH EQUIV.	109 SF		
235	CORR.	417 SF		
236	JAN.	44 SF		
237	UNISEX	46 SF		
238	UNISEX	46 SF		
239	UNISEX	46 SF		
240	HOTEL	113 SF		
241	ADA UNISEX	63 SF		
242	ADA UNISEX	63 SF		
243	ADA UNISEX	63 SF		
244	CORR.	165 SF		
245	HOTEL	79 SF		
246	HOTEL	73 SF		
247	HEALTH LAC.	61 SF		
248	SECURE STORAGE	181 SF		
249	PROGRAM COPY	189 SF		
250	CORR.	375 SF		
251	EARLY CHILDHOOD WORKSTATIONS	516 SF		
252	CORR.	323 SF		
253	YOUTH EQUIV. ADMIN.	133 SF		
254	EARLY CHILD	111 SF		
255	EARLY CHILD	113 SF		
256	EARLY CHILD	112 SF		
257	EARLY CHILD ADMIN.	111 SF		
258	MEETING	351 SF		
259	MEETING	257 SF		
260	ELEC.	56 SF		
261	BREAK	286 SF		
262	ALCOVE	58 SF		
E1	ELEVATOR	49 SF		
E2	ELEVATOR	49 SF		
S11	STAIR No. 1	261 SF		
S12	STAIR No. 1	245 SF		
S21	STAIR No. 2	227 SF		
S22	STAIR No. 2	224 SF		
		23571 SF		

LIFE SAFETY LEGEND

- EGRESS TRAVEL PATH
- FIRE EXTINGUISHER
- TRAVEL POINT
- 1 HOUR RATED ASSEMBLY
- 2 HOUR RATED ASSEMBLY

CODE REVIEW

GOVERNING CODES

OHIO BUILDING CODE	2024
OHIO PLUMBING CODE	2024
OHIO MECHANICAL CODE	2024
NATIONAL ELECTRIC CODE	2017
OHIO ENERGY CODE	2021
OHIO FIRE CODE	2025
ACCESSIBILITY - ANSI A117.1	2009

USE GROUPS

PRIMARY	B	BUSINESS
ACCESSORY	S-1	STORAGE
ACCESSORY	A-3	ASSEMBLY

ALLOWABLE BUILDING HEIGHT & AREA

CONSTRUCTION TYPE	IIIB	
CLASSIFICATION	BUSINESS	
ALLOWABLE HEIGHT	75'-0"	T504.3
ALLOWABLE STORIES	3	T504.4
ALLOWABLE AREA	28,500 SQ.FT.	T506.2

ACTUAL BUILDING HEIGHT & AREA

ACTUAL HEIGHT	32'-0"	
ACTUAL STORIES	2	
ACTUAL AREA		
FIRST FLOOR		13,022 SQ.FT.
SECOND FLOOR		12,988 SQ.FT.
TOTAL		26,010 SQ.FT.

OCCUPANT LOAD CALCULATION PER FLOOR

FIRST FLOOR

EXIT CAPACITY REQUIRED	= 150 OCCUPANTS
EXIT CAPACITY PROVIDED	= 680 OCCUPANTS
EXITS REQUIRED	= 2
EXITS PROVIDED	= 3

SECOND FLOOR

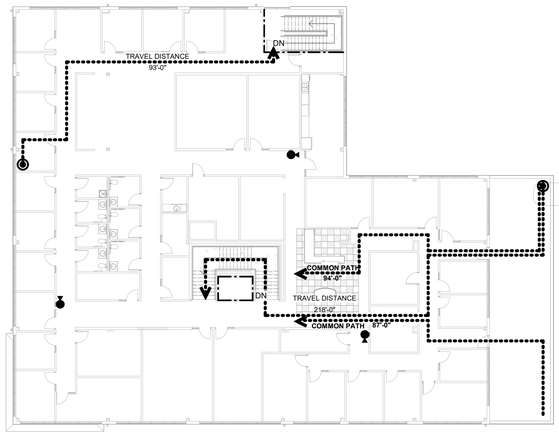
EXIT CAPACITY REQUIRED	= 146 OCCUPANTS
EXIT CAPACITY PROVIDED	= 403 OCCUPANTS
EXITS REQUIRED	= 2
EXITS PROVIDED	= 2

GENERAL

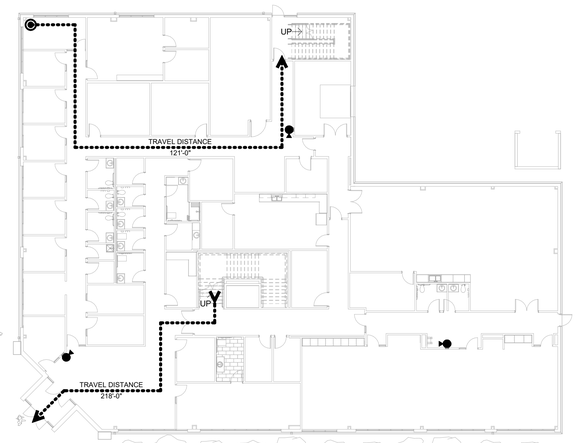
SPRINKLERED	YES
EXIT ACCESS TRAVEL DISTANCE: B	300'-0"
COMMON PATH OF TRAVEL (W/SPRINKLERS)	100'-0"
FIRE RESISTANCE RATING	TYPE IIB
PRIMARY STRUCTURAL FRAME	0 HOURS
BEARING WALLS	0 HOURS
NON-BEARING WALLS	0 HOURS
FLOOR CONSTRUCTION	0 HOURS
EXIT STAIRWAT ENCLOSURE	0 HOURS
MISC SHAFT WALLS	0 HOURS
ROOF CONSTRUCTION	0 HOURS
EXTERIOR WALLS (>30'-0")	0 HOURS

INTERIOR FINISHES

ROOMS	CLASS C (FLAME SPREAD 76-200, SMOKE DEV. 0-450)
FLOOR FIXTURES	CLASS C (FLAME SPREAD 76-200, SMOKE DEV. 0-450)
CEILING	CLASS C (FLAME SPREAD 76-200, SMOKE DEV. 0-450)
EXIT STAIRWAYS	CLASS B (FLAME SPREAD 26-75, SMOKE DEV. 0-450)



2 G003 **SECOND FLOOR PLAN - LIFE SAFETY**
1/16" = 1'-0"



1 G003 **FIRST FLOOR PLAN - LIFE SAFETY**
1/16" = 1'-0"

ATA ARCHITECTS
1063 Central Avenue Cincinnati Ohio, 45202
p: 513-241-4422 f: 513-241-5593 www.ATA-B.com

SANTA MARIA COMMUNITY SERVICES

modelgroup

JS|HELD

SANTA MARIA COMMUNITY SERVICES

1048 CONSIDINE AVE.
CINCINNATI, OHIO 45205

CERTIFICATION

STATE OF OHIO
ROBERT N. HUMASON
14056
REGISTERED ARCHITECT

REVISIONS

#	DATE	DESCRIPTION
	01-09-26	80% PROGRESS

PROJECT #: 25109

DRAWN: TDS **CHECKED:** RNH

LIFE SAFETY

G003

SANTA MARIA COMMUNITY SERVICES
SITE DEVELOPMENT PLAN

CITY OF CINCINNATI
HAMILTON COUNTY, OHIO

GENERAL CONSTRUCTION NOTES

OVERALL:
APPROPRIATE UTILITY COMPANIES SHALL BE NOTIFIED AT LEAST 48 HOURS PRIOR TO BREAKING GROUND FOR THE PURPOSE OF VERIFYING BY FIELD INSPECTION, THE EXACT LOCATION OF UNDERGROUND UTILITIES.

THE CONTRACTOR SHALL EXERCISE DUE CARE DURING CONSTRUCTION SO AS NOT TO DESTROY ANY TREES, PLANTS, SHRUBS OR STRUCTURES OUTSIDE OF THE INDICATED WORK LIMITS AND THOSE NOT SPECIFICALLY MARKED FOR REMOVAL OR RELOCATION WITHIN THE WORK LIMITS.

ALL MATERIALS AND CONSTRUCTION PROCEDURES SHALL BE IN ACCORDANCE WITH "CONSTRUCTION AND MATERIAL SPECIFICATIONS OF THE STATE OF OHIO DEPARTMENT OF TRANSPORTATION" & CITY OF CINCINNATI.

UNLESS OTHERWISE NOTED ALL CONSTRUCTION DETAILS SHALL CONFORM WITH THE "STANDARD CONSTRUCTION DRAWINGS OF THE STATE OF OHIO DEPARTMENT OF TRANSPORTATION" & CITY OF CINCINNATI.

THE ENGINEER/SURVEYOR DOES NOT ASSUME ANY LIABILITY FOR THE LOCATION OF UTILITIES, INCLUDING INDIVIDUAL SERVICE LINES & PRIVATE MAINS NOT SHOWN ON PUBLIC RECORDS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR EXACTLY LOCATING AND PROTECTING ALL UTILITIES, BOTH ABOVE AND BELOW GROUND, THAT EXIST IN THE WORK AREA AND WHICH MAY COME IN CONFLICT WITH HIS OPERATIONS. ANY DAMAGE TO UTILITIES WHICH HAVE BEEN ACCURATELY LOCATED, WHICH IS CAUSED BY THE CONTRACTOR'S OPERATIONS, SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. ASSISTANCE IN LOCATING UNDERGROUND UTILITIES CAN BE OBTAINED BY CONTACTING THE UTILITY COMPANIES AT THE LOCATIONS LISTED ON THIS PAGE. IF A DISCREPANCY IS FOUND TO EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.

EACH INSTALLING CONTRACTOR IS RESPONSIBLE FOR THEIR OWN COORDINATION OF INSTALLATION OF THEIR SYSTEMS UNDER THE SUPERVISION OF THE GENERAL CONTRACTOR/CONSTRUCTION MANAGER, OR APPROPRIATE PARTY. ABERCROMBIE & ASSOCIATES, INC. ASSUMES NO RESPONSIBILITY FOR CONTRACTOR MEANS & METHODS OF CONSTRUCTION ON DRAWINGS.

THE CONTRACTOR SHALL OBTAIN OR VERIFY THAT ALL PERMITS ARE OBTAINED.

THE CONTRACTOR SHALL VERIFY EXISTING SITE INFORMATION AND REQUIRED EARTHWORK.

A GEOTECHNICAL INSPECTION IS RECOMMENDED AND ALL RECOMMENDATIONS IN THE GEOTECHNICAL REPORT SHALL BE FOLLOWED.

ALL PROPOSED SPOT ELEVATIONS ARE TO FINISHED GRADE.

UTILITY SPECIFICATION:
ALL STORM SEWER TO BE PRIVATE, MAINTAINED BY THE OWNER AND BE CORRUGATED POLYETHYLENE SMOOTH LINED PIPE, CONFORMING TO ODOT ITEM 707.33 OR PVC CORRUGATED SMOOTH INTERIOR PIPE, CONFORMING TO ODOT ITEM 707.42 AND INSTALLED PER ODOT ITEM 603.

STEPS SHALL BE REQUIRED IN ALL CATCH BASINS WHERE THE DEPTH EXCEEDS FOUR (4) FEET AND SHALL MEET THE REQUIREMENTS OF THE STATE OF OHIO STANDARD CONSTRUCTION DRAWING MH-1.

UTILITY TRENCH BACKFILL SHALL BE PER THE DETAILS SHOWN ON THE PLANS.

EROSION CONTROL:
ALL EROSION CONTROL MEASURES MUST BE IN PLACE PRIOR TO ANY STRIPPING OF VEGETATION OR EXCAVATION.

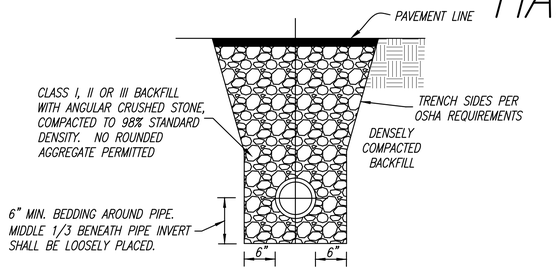
EROSION CONTROL WILL BE ACCOMPLISHED BY STRATEGICALLY PLACING ROCK CHECK DAMS, MULCH, BERMS AND/OR SILT FENCES IN SWALES AND RUNOFF AREAS, SUCH ITEMS TO BE REPLACED AND EXPANDED AS NECESSARY TO AFFORD NECESSARY CONTROL.

SILT FENCES USED FOR EROSION AND SEDIMENT CONTROL ARE TO BE ENTRENCHED AT LEAST 6" INCHES BELOW GRADE, AND FOLDED ACCORDING TO THE DETAIL AS SHOWN.

ALL EROSION CONTROLS SHALL BE INSPECTED AT LEAST ONCE EVERY 7 CALENDAR DAYS AND WITHIN 24 HOURS AFTER ANY STORM EVENT PRODUCING GREATER THAN 1/2 INCH OF RAIN IN A 24 HOUR PERIOD. ALL EROSION CONTROLS MUST BE MAINTAINED DURING CONSTRUCTION BY REMOVING COMPACTED SILT AND SEDIMENT, AND REDISTRIBUTING IT AS IS APPROPRIATE. SEEDING AND MULCHING SHALL BE APPLIED IN ACCORDANCE WITH OHIO RAINWATER AND LAND DEVELOPMENT MANUAL TO ALL DISTURBED AREAS WITHIN 7 DAYS IF THE AREA IS AT FINAL GRADE OR IS TO REMAIN DORMANT FOR MORE THAN 14 DAYS.

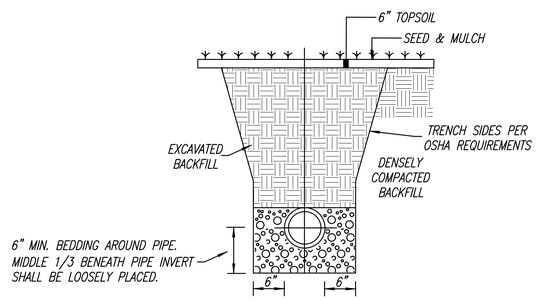
ALL CATCH BASINS SHALL HAVE SEDIMENT INLET PROTECTION METHODS INSTALLED DURING CONSTRUCTION, USING THE DETAILS SHOWN ON THE PLAN.

STANDARD UTILITY TRENCH FOR PIPES UNDER PAVEMENT



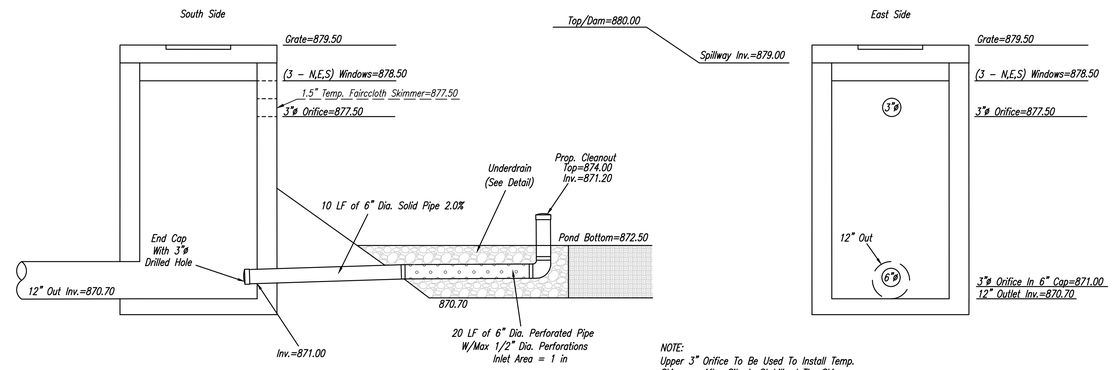
REFER TO O.D.O.T ITEM 603.04 FOR ADDITIONAL BEDDING INFORMATION
REFER TO O.D.O.T ITEM 603.08 FOR ADDITIONAL BACKFILLING INFORMATION

STANDARD UTILITY TRENCH FOR PIPES NOT UNDER PAVEMENT



REFER TO O.D.O.T ITEM 603.04 FOR ADDITIONAL BEDDING INFORMATION
REFER TO O.D.O.T ITEM 603.08 FOR ADDITIONAL BACKFILLING INFORMATION

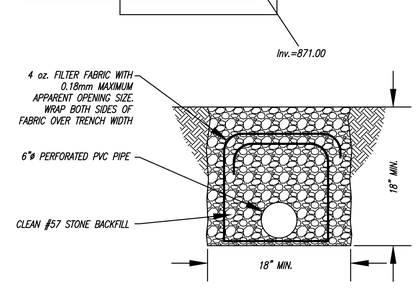
OUTLET STRUCTURE #300 DETAIL
MODIFIED ODOT CB 2-3



NOTE:
Upper 3" Orifice To Be Used To Install Temp. Skimmer. After Site Is Stabilized The Skimmer Should Be Removed, Upper 3" Orifice Restored, Basin Mucked Out, And Underdrain Installed Per Plan.

STORM WATER DETENTION FACILITY TABLE

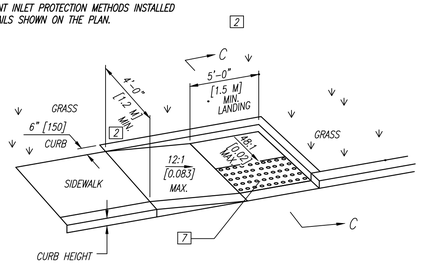
DESIGNATION	HIGHWATER ELEVATION (FT. ABOVE M.S.L.)	PRE-DEV Q1 (CFS)	POST-DEV Q2 (CFS)	REQUIRED STORAGE VOLUME (C.F.)
DRY POND	878.00	0.78	0.76	17,628



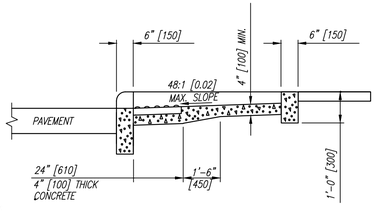
UNDERDRAIN DETAIL
NTS

LEGEND

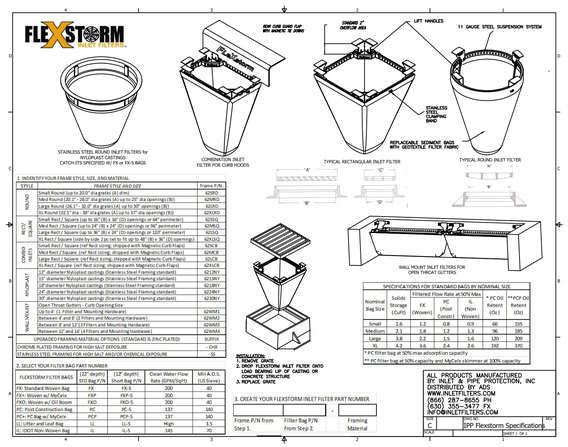
1. May be reduced to 3'-0" [915] in existing sidewalks if the landing is unconstrained along the back edge.
2. May be reduced to 3'-4" [1.02 m] in existing sidewalks to better fit the walk configuration or where site conditions are restricted by narrow walks, pole foundations, drainage inlets, etc. The width may be tapered.
3. Where landing width (D) has been reduced to 3'-0" [915] the flared sides shall have a maximum slope of 12:1 [0.083].
4. Flared sides are not required where the edges of a curb ramp are protected by landscaping or other barriers to travel by wheel chair users or pedestrians across the edge of the curb ramp. However, if the flared sides are used in these areas, they may be of any slope.
5. The minimum length of a perpendicular ramp is 6' [2.0 m] from the back of a 6" [150] curb and may be increased where feasible to obtain a flatter ramp slope or to better blend with the walk configuration.
6. Gutter counter slopes at the foot of perpendicular curb ramps should not exceed 20:1 [0.05] over a distance of 2'-0" [610] from the curb.
7. Detectable Warnings (truncated domes) are to be installed in the location shown. Dimensions of the domes are 24" [610] from the back of the curb by the width of the ramp.



PARALLEL CURB RAMP DETAIL
Type B1 (Single Sided Parallel)



SECTION C–C



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PERMIT NOTE:
THIS PROJECT WAS PREVIOUSLY REVIEWED BY OTTO BAUER-NILSEN, APPLICATION NUMBER 2024 P10403. THIS SUBMISSION REPRESENTS A NEW PERMIT APPLICATION FOR THE PROJECT COVERING THE SAME SCOPE OF WORK. THE PREVIOUS SUBMISSION WILL BE WITHDRAWN.

PHASE	SCOPE OF WORK	SUBMISSION DATE
MASS GRADING/STORM DETENTION	Clearing/Demolition, Mass Grading, & Stormwater Detention System	10/29/2025
SITE CONSTRUCTION/UTILITIES	Final Grading, Pavement, Utilities, & Storm Sewers	1/30/2026
FOUNDATION & FOOTINGS	Structural Foundations & Footings	1/30/2026
BUILDING	Architectural, Structural, Mechanical, Electrical, Plumbing & Landscaping	1/30/2026

OWNER:
SANTA MARIA COMMUNITY SERVICES
617 STEINER AVENUE
CINCINNATI, OHIO 45204

DEVELOPER:
MODEL GROUP
1826 RACE STREET
CINCINNATI, OHIO 45202

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Call before You Dig.
1-800-362-2764
811 Know what's below. Call before you dig.

STATE OF OHIO BENJAMIN POOLE 86431 REGISTERED PROFESSIONAL ENGINEER
12/30/25

Date	12-5-25
Drawn By	B.P.
Checked By	C.A.
Scale	N/A

REVISIONS
1-8-26, BSE PROGRESS SET
1-30-26, PERMIT ISSUE

DWG: 25-0131\DSGN\BP-STPL-PH2

Sheet Title: TITLE SHEET

Project Title: SANTA MARIA COMMUNITY SERVICES
SECTION-36, TOWN-4, F.RANGE-1
CITY OF CINCINNATI
HAMILTON COUNTY, OHIO

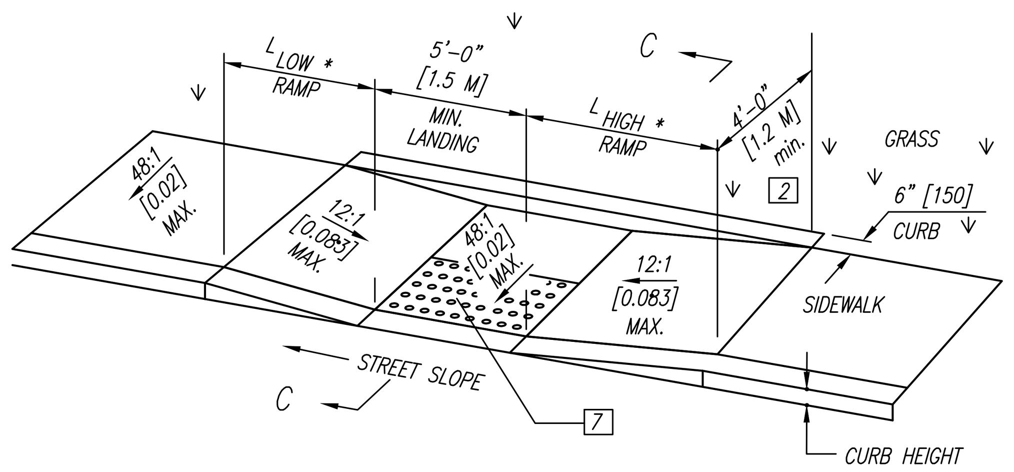
Abercrombie & Associates, Inc.
Civil Engineering + Surveying
8111 Cheviot Road, Suite 200
Cincinnati, Ohio 45247
513-385-5757
www.abercrombie-associates.com

Job No. 25-0131

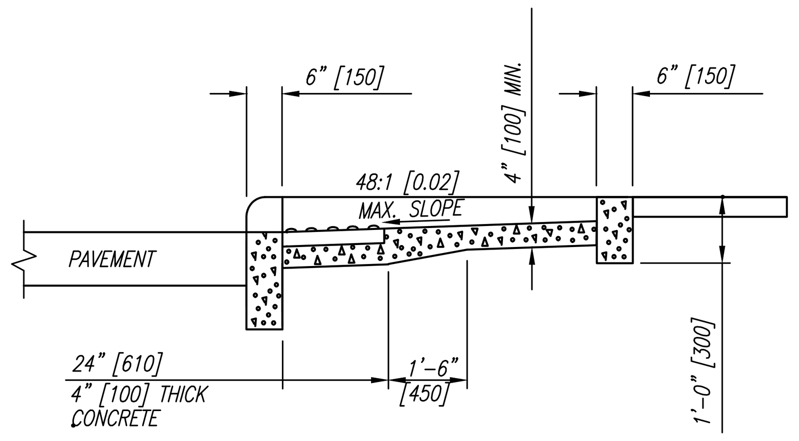
$L_{LOW} = \frac{\text{Curb Height}}{0.083 + \text{Street Slope}}$

* See Equations And Table To The Right.

$L_{HIGH} = \frac{\text{Curb Height}}{0.083 - \text{Street Slope}}$



PARALLEL CURB RAMP DETAIL
TYPE B2 (Double Sided Parallel)



SECTION C-C

LEGEND

1 May be reduced to 3'-0" [915] in existing sidewalks if the landing is unconstrained along the back edge.

2 May be reduced to 3'-4" [1.02 m] in existing sidewalks to better fit the walk configuration or where site conditions are restricted by narrow walks, pole foundations, drainage inlets, etc. The width may be tapered.

3 Where landing width (D) has been reduced to 3'-0" [915] the flared sides shall have a maximum slope of 12:1 [0.083].

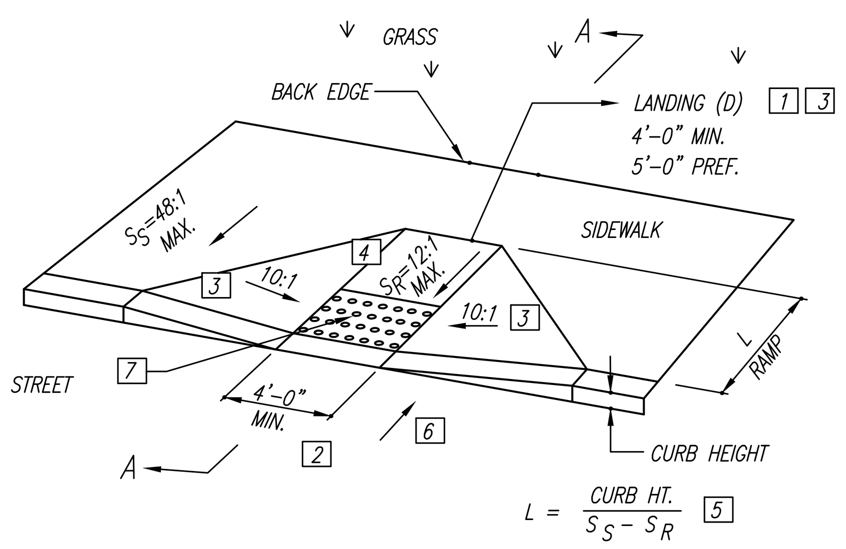
Flared sides are not required where the edges of a curb ramp are protected by landscaping or other barriers to travel by wheel chair users or pedestrians across the edge of the curb ramp. However, if the flared sides are used in these areas, they may be of any slope.

5 The minimum length of a perpendicular ramp is 6' [2.0 m] from the back of a 6" [150] curb and may be increased where feasible to obtain a flatter ramp slope or to better blend with the walk configuration.

6 Gutter counter slopes at the foot of perpendicular curb ramps should not exceed 20:1 [0.05] over a distance of 2'-0" [610] from the curb.

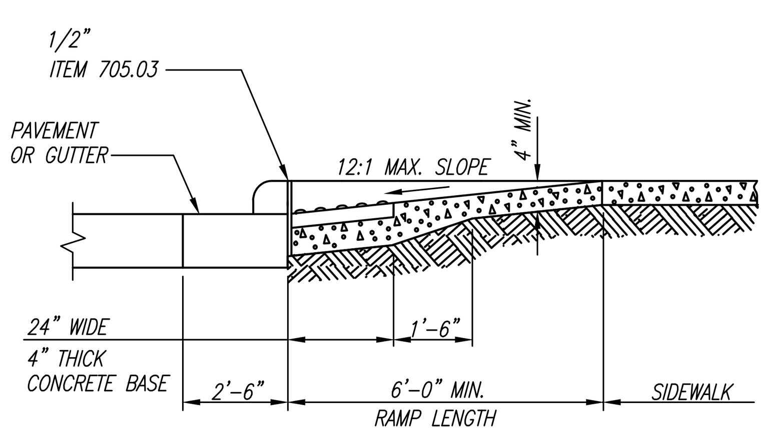
7 Detectable Warnings (truncated domes) are to be installed in the location shown. Dimensions of the domes are 24" [610] from the back of the curb by the width of the ramp.

STREET SLOPE	RAMP LENGTH @ 1"/FT [0.083]	
	L_{LOW} SIDE*	L_{HIGH} SIDE*
0.01	5'-5" [1.6M]	6'-10" [2.1M]
0.02	4'-10" [1.5M]	7'-11" [2.4M]
0.03	4'-5" [1.3M]	9'-5" [2.9M]
0.04	4'-1" [1.2M]	11'-8" [3.6M]
0.05	3'-9" [1.1M]	15'-2" [4.6M]



$L = \frac{\text{CURB HT.}}{S_S - S_R}$ 5

PERPENDICULAR CURB RAMP DETAIL
Type A1 (Perpendicular With Flared Sides)



SECTION A-A
NORMAL DETAIL

LEGEND

1 May be reduced to 3'-0" [915] in existing sidewalks if the landing is unconstrained along the back edge.

2 May be reduced to 3'-4" [1.02 m] in existing sidewalks to better fit the walk configuration or where site conditions are restricted by narrow walks, pole foundations, drainage inlets, etc. The width may be tapered.

3 Where landing width (D) has been reduced to 3'-0" [915] the flared sides shall have a maximum slope of 12:1 [0.083].

Flared sides are not required where the edges of a curb ramp are protected by landscaping or other barriers to travel by wheel chair users or pedestrians across the edge of the curb ramp. However, if the flared sides are used in these areas, they may be of any slope.

4 The slope of the ramp toward the curb is preferred to be 12:1 or flatter related to the horizontal.

In existing sidewalks, where the maximum ramp slope (S_R) is not feasible, it may be reduced as follows:

A) 10:1 for a max. rise of 6"
B) 8:1 for a max. rise of 3"
C) 6:1 over a max. run of 2'-0" for historic areas where a flatter slope is not feasible.

5 The minimum length of a perpendicular ramp is 6' [2.0 m] from the back of a 6" [150] curb and may be increased where feasible to obtain a flatter ramp slope or to better blend with the walk configuration.

6 Gutter counter slopes at the foot of perpendicular curb ramps should not exceed 20:1 [0.05] over a distance of 2'-0" [610] from the curb.

7 Detectable Warnings (truncated domes) are to be installed in the location shown. Dimensions of the domes are 24" [610] from the back of the curb by the width of the ramp.

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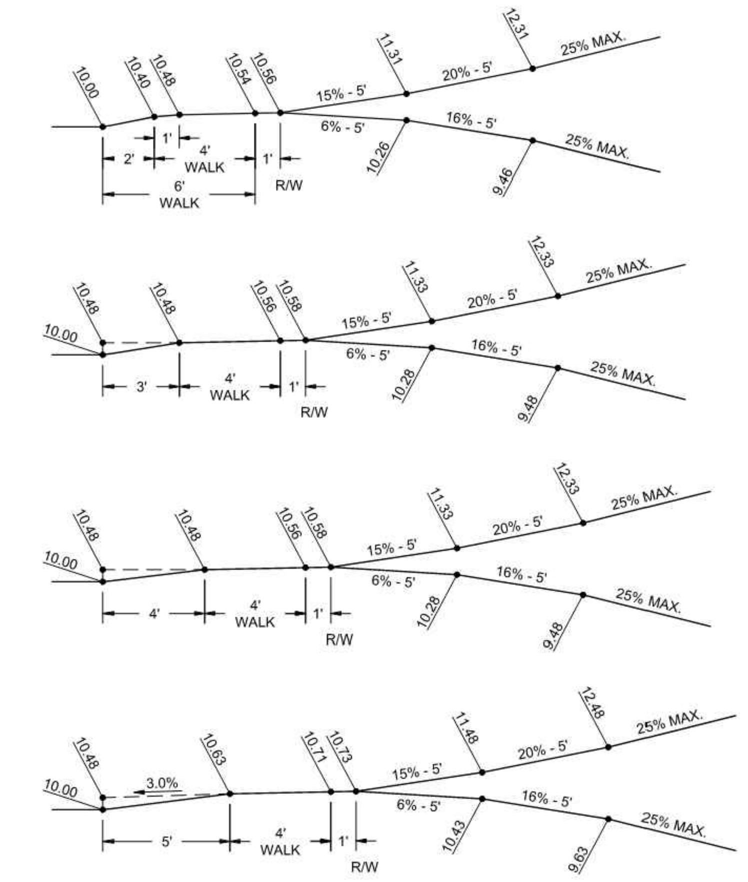
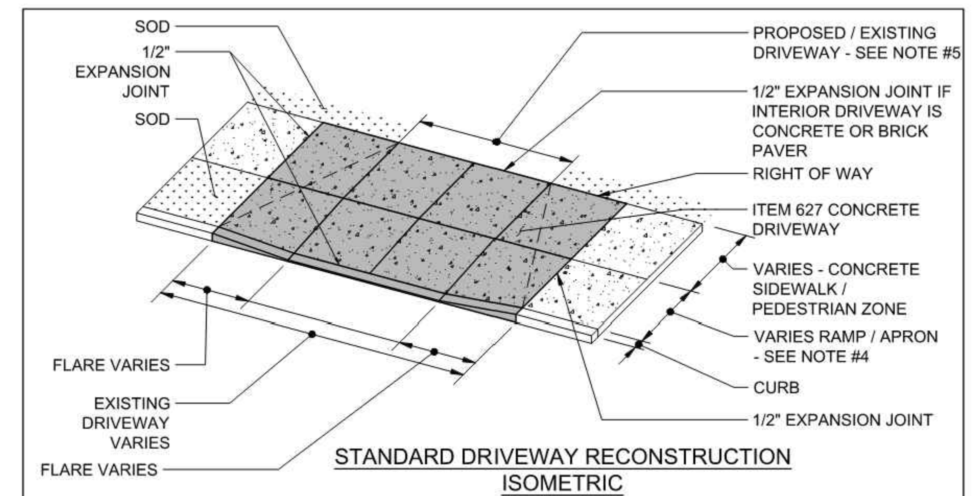


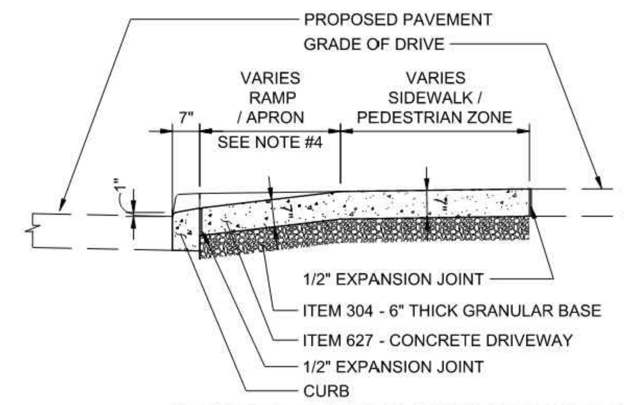
MAXIMUM ASCENDING & DESCENDING
INTERIOR DRIVEWAY GRADES
FOR VARIOUS SIDEWALK LOCATIONS

NOTES:
1. SECTION 721-143 OF THE CINCINNATI MUNICIPAL CODE PROVIDES THAT ON UNIMPROVED STREETS THE GRADE OF THE DRIVEWAY AT THE PROPERTY LINE SHALL BE DETERMINED BY ASCENDING FROM THE EDGE OF THE TRAVELED ROADWAY AT THE RATE OF 1/2" PER FOOT

CITY OF CINCINNATI DEPARTMENT OF TRANSPORTATION AND ENGINEERING	INTERIOR DRIVEWAY GRADES	APPROVED BY: [signature] CITY ENGINEER	DWG. NO. C118 DATE: 2024-08-23



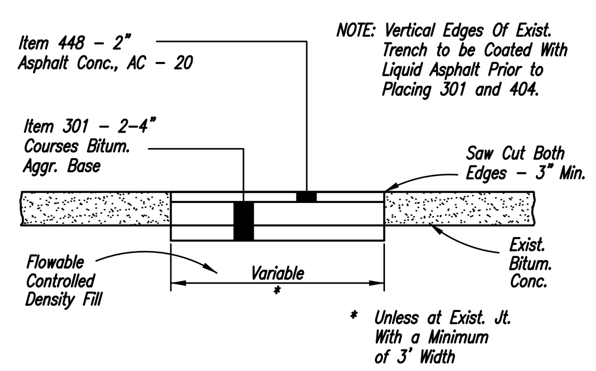
STANDARD DRIVEWAY RECONSTRUCTION
ISOMETRIC



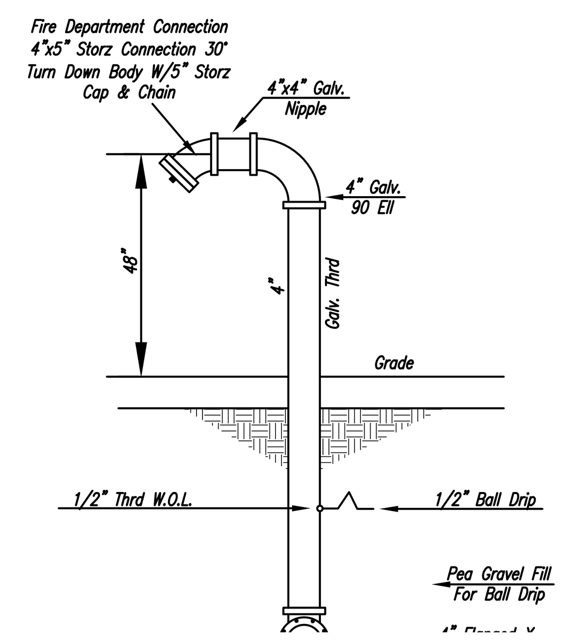
STANDARD DRIVEWAY RECONSTRUCTION
PROFILE

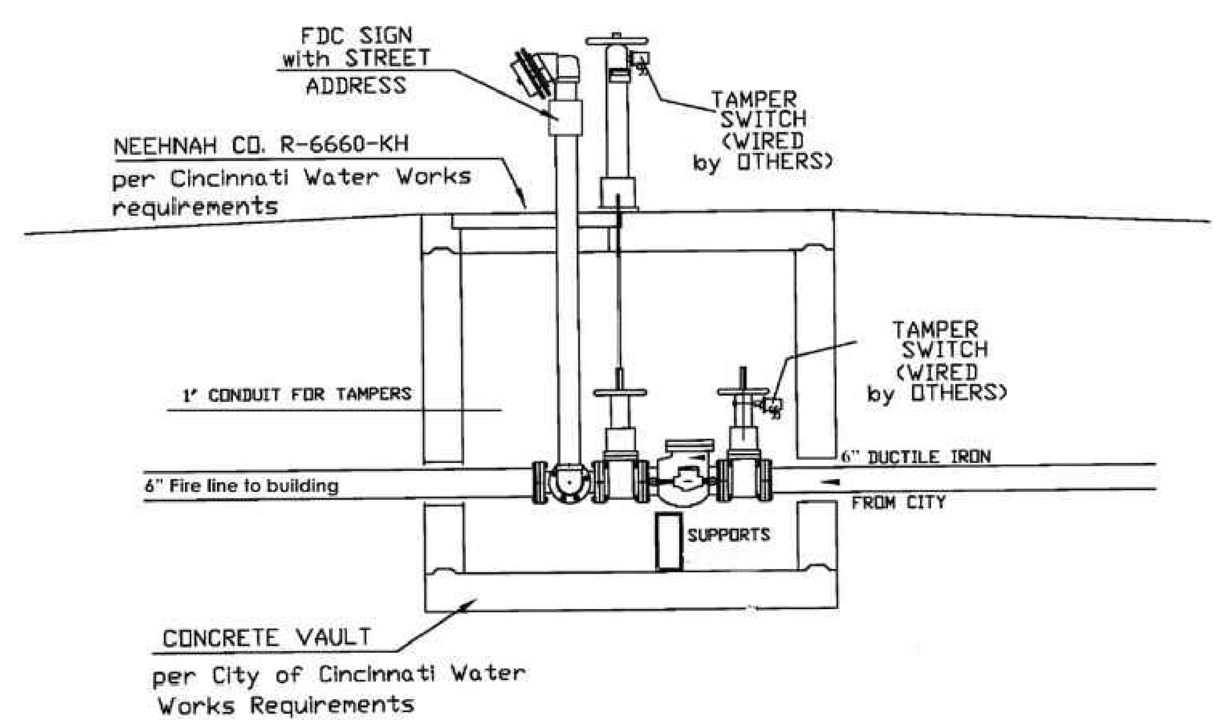
NOTES:
1. FOR ADDITIONAL DRIVEWAY DROP CURB DETAILS SEE L-1, B-1, P-1, P-4, AND R-2
2. FOR INTERIOR DRIVEWAY GRADES SEE DWG. NO. C118
3. CONCRETE WALK TO BE REMOVED TO THE NEAREST JOINT OUTSIDE OF THE PROPOSED DRIVEWAY. INSTALL 1/2 INCH EXPANSION JOINT AGAINST UNDISTURBED CONCRETE WALK
4. TO BE PAVED 25' BEHIND PROPERTY LINE, AS PER CMC 721-134

CITY OF CINCINNATI DEPARTMENT OF TRANSPORTATION AND ENGINEERING	STANDARD DRIVEWAY RECONSTRUCTION	APPROVED BY: [signature] CITY ENGINEER	DWG. NO. C117 DATE: 2024-08-23

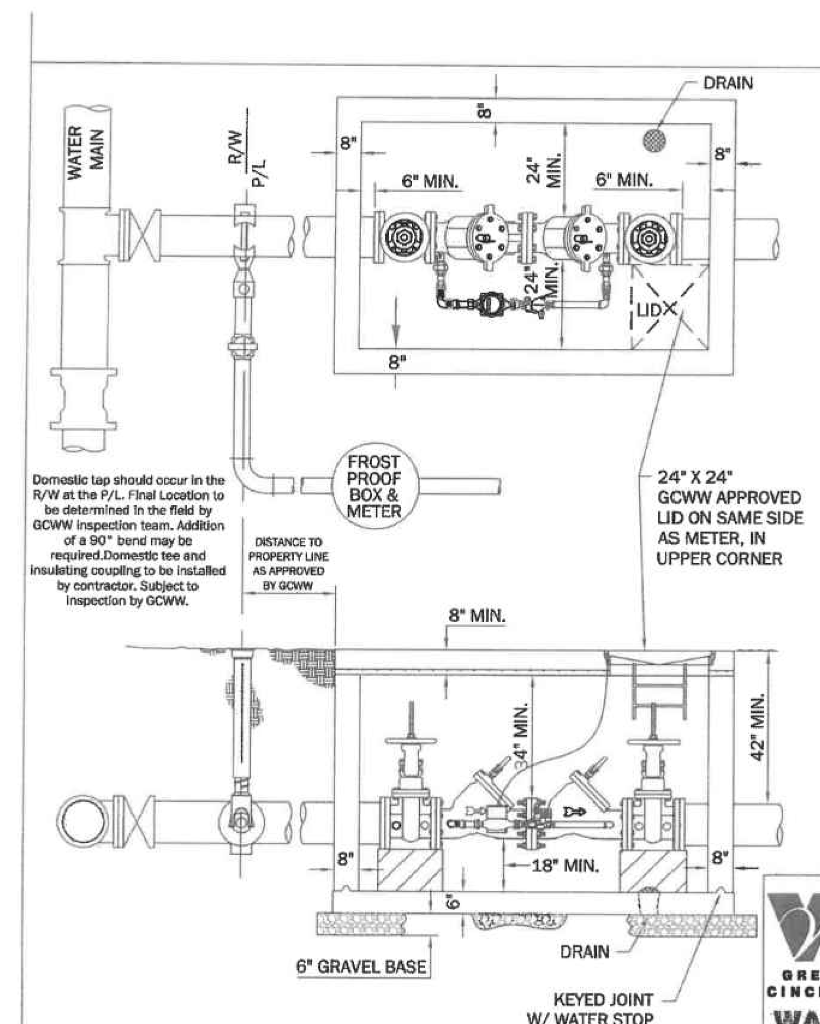


ASPHALT RESTORATION SECTION
PLATE NO.15





PIT SECTION
N.T.S.



DETAILS:
A) SEE 108-1A, 108-1B, 108-1C, 108-1D & 108-1E FOR MATERIAL & CONSTRUCTION SPECIFICATIONS.
B) SEE 108-1F FOR EMR INSTALLATION SPECIFICATIONS.
C) SEE 108-5A FOR 5/8" AND 3/4" METER SETTINGS; 108-5B FOR 1" METER SETTINGS; 108-5C FOR 1 1/2" AND 2" METER SETTING SPECIFICATIONS.
D) SEE 108-9 FOR DETAILS PIPING ARRANGEMENT FOR DOUBLE CHECK DETECTOR CHECK VALVE ASSEMBLY.
E) DETECTOR CHECK METER TO BE PURCHASED FROM AND INSTALLED BY GCWW.
F) A CURB BOX MUST BE INSTALLED ON A 3/4" AND 1" DOMESTIC BRANCH AND A TELESCOPE BOX MUST BE INSTALLED ON A 1 1/2" AND 2" DOMESTIC BRANCH.
G) ANY PUMPER CONNECTION MUST BE INSTALLED ON OPPOSITE SIDE OF DOUBLE DETECTOR CHECK METER ASSEMBLY AND DOWNSTREAM OF OUTLET VALVE.
H) CONCRETE BLOCKING MUST BE UNDER OS & Y VALVES.
I) A FACTORY DRILLED (1) 3/4" HOLE MUST BE DRILLED IN THE GCWW APPROVED LID IF THE PIT IS LOCATED IN AN UNPAVED AREA.

All taps 4" and larger will require a shutdown and cutting in a mechanically restrained tee of appropriate size on the main line. Wet taps are not permitted.

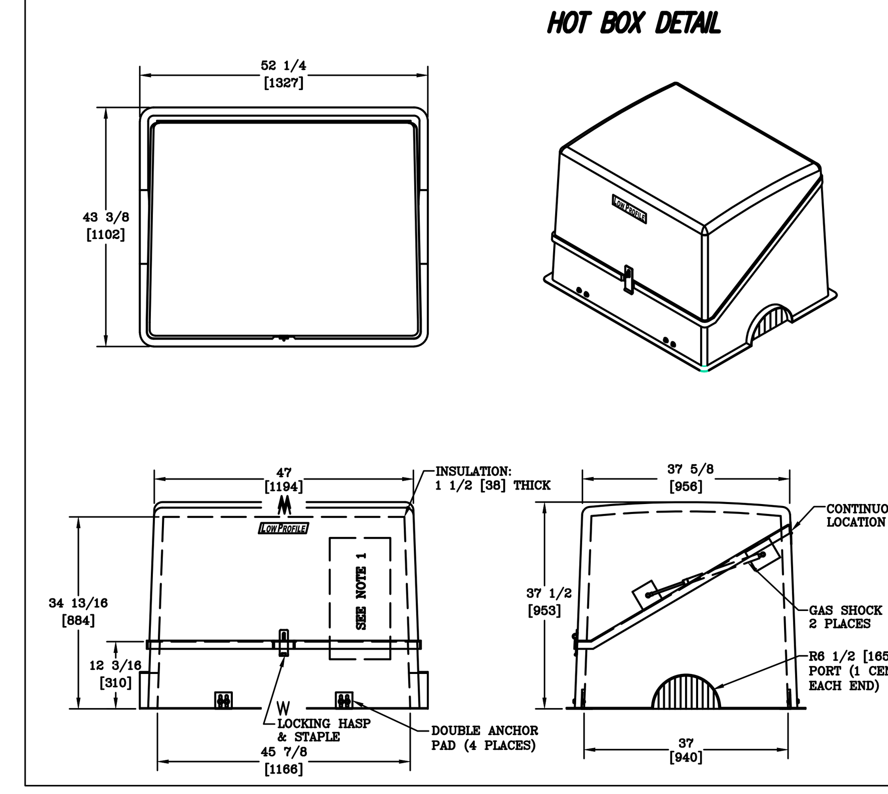
Property owner is responsible for all excavation, backfill, and restoration work per GCWW specifications.

All dead end pipe stubs must be mechanically restrained.

See Standard Drawing 108-19 For Inspection/Installation Procedures

GREATER CINCINNATI WATER WORKS	4" OR LARGER FIRE DUAL SERVICE		
	OUTSIDE EMR SETTING FOR 4" OR LARGER FIRE AND 2" OR SMALLER DOMESTIC METER		
	APPROVED [signature]	DATE 7/12/19	STANDARD DRAWING 108-14A

HOT BOX DETAIL



NOTES:
1. HEAT IS PROVIDED BY A 1000WATT, 120V SINGLE PHASE HEATER. FOR UNHEATED VERSION REPLACE THE PREFIX "H" WITH AN "L".
2. STANDARD COLOR IS BEIGE (OPTIONS AVAILABLE)
3. FOR RECOMMENDED SLAB SIZE ADD 9" [305] TO THE ENCLOSURE EXTERIOR.

HOT BOX FIBERGLASS FLIP TOP ENCLOSURE HB3000

09994 1 1 HL035045035

OHIO Utilities Protection SERVICE Call Before You Dig

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

STATE OF OHIO BENJAMIN POOLE 88431 REGISTERED PROFESSIONAL ENGINEER

Date	12-5-25
Drawn By	B.P.
Checked By	C.A.
Scale	N/A

REVISIONS
1-9-26, 80% PROGRESS SET
1-30-26, PERMIT ISSUE

DWG: 25-0131\DSGN\BP-STPL-PH2

Sheet Title: DETAILS

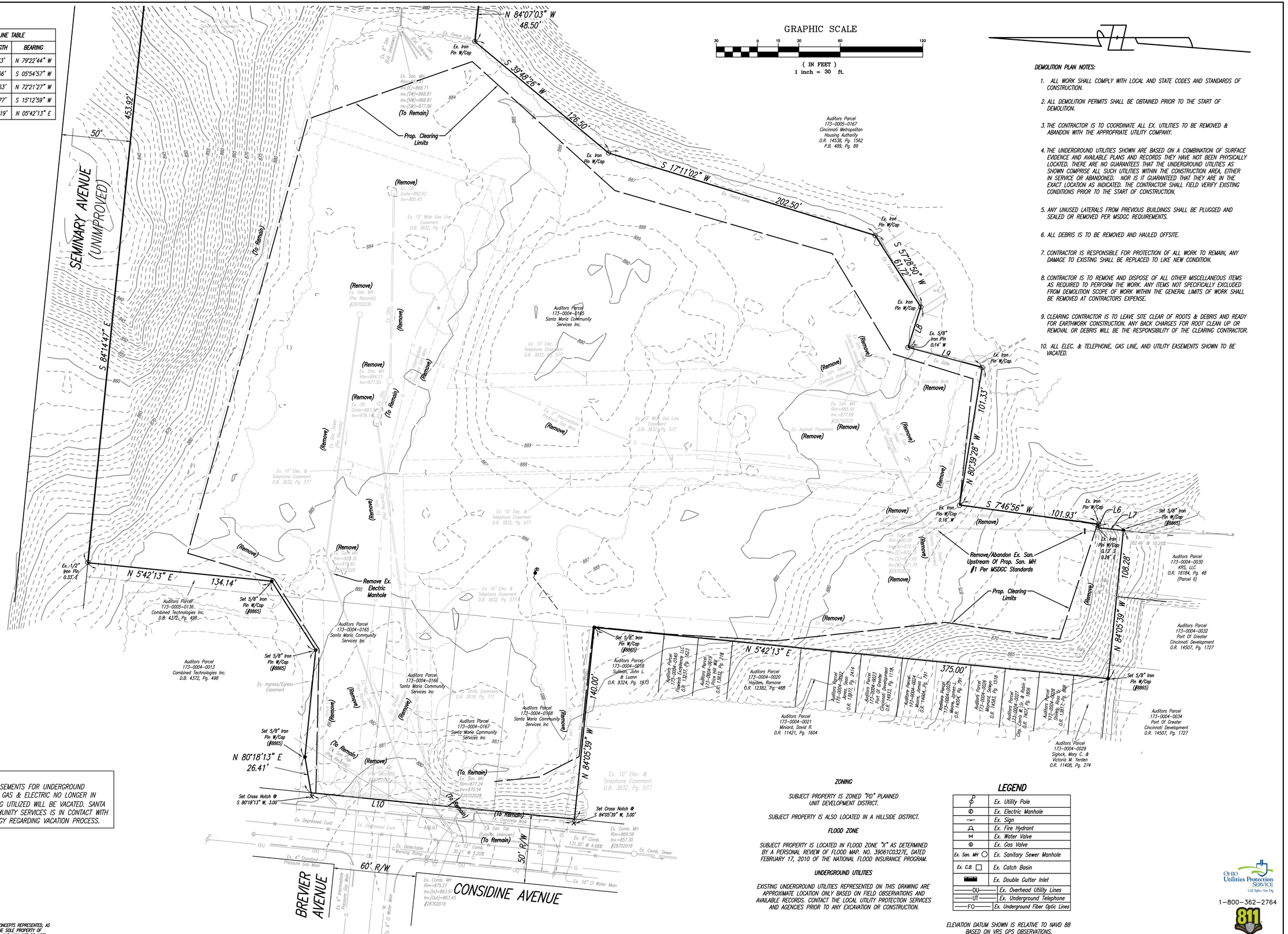
Project Title: SANTA MARIA COMMUNITY SERVICES
SECTION-36, TOWN-4, F.RANGE-1
CITY OF CINCINNATI
HAMILTON COUNTY, OHIO

Abercrombie & Associates, Inc.
Civil Engineering + Surveying
8111 Cheviot Road, Suite 200
Cincinnati, Ohio 45247
513-385-5757
www.abercrombie-associates.com

Job No. 25-0131

Page C 101

LINE TABLE		
LINE	LENGTH	BEARING
L6	2.73'	N 79°22'44" W
L7	18.66'	S 05°54'57" W
L8	30.63'	N 72°21'27" W
L9	55.77'	S 15°12'59" W
L10	192.19'	N 05°42'13" E



DEMOLITION PLAN NOTES:

1. ALL WORK SHALL COMPLY WITH LOCAL AND STATE CODES AND STANDARDS OF CONSTRUCTION.
2. ALL DEMOLITION PERMITS SHALL BE OBTAINED PRIOR TO THE START OF DEMOLITION.
3. THE CONTRACTOR IS TO COORDINATE ALL EX. UTILITIES TO BE REMOVED & ABANDON WITH THE APPROPRIATE UTILITY COMPANY.
4. THE UNDERGROUND UTILITIES SHOWN ARE BASED ON A COMBINATION OF SURFACE EVIDENCE AND AVAILABLE PLANS AND RECORDS THEY HAVE NOT BEEN PHYSICALLY LOCATED. THERE ARE NO GUARANTEES THAT THE UNDERGROUND UTILITIES AS SHOWN COMPRISE ALL SUCH UTILITIES WITHIN THE CONSTRUCTION AREA, EITHER IN SERVICE OR ABANDONED. NOR IS IT GUARANTEED THAT THEY ARE IN THE EXACT LOCATION AS INDICATED. THE CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO THE START OF CONSTRUCTION.
5. ANY UNUSED LATERALS FROM PREVIOUS BUILDINGS SHALL BE PLUGGED AND SEALED OR REMOVED PER MSDGC REQUIREMENTS.
6. ALL DEBRIS IS TO BE REMOVED AND HAULED OFFSITE.
7. CONTRACTOR IS RESPONSIBLE FOR PROTECTION OF ALL WORK TO REMAIN, ANY DAMAGE TO EXISTING SHALL BE REPLACED TO LIKE NEW CONDITION.
8. CONTRACTOR IS TO REMOVE AND DISPOSE OF ALL OTHER MISCELLANEOUS ITEMS AS REQUIRED TO PERFORM THE WORK. ANY ITEMS NOT SPECIFICALLY EXCLUDED FROM DEMOLITION SCOPE OF WORK WITHIN THE GENERAL LIMITS OF WORK SHALL BE REMOVED AT CONTRACTORS EXPENSE.
9. CLEARING CONTRACTOR IS TO LEAVE SITE CLEAR OF ROOTS & DEBRIS AND READY FOR EARTHWORK CONSTRUCTION. ANY BACK CHARGES FOR ROOT CLEAN UP OR REMOVAL OR DEBRIS WILL BE THE RESPONSIBILITY OF THE CLEARING CONTRACTOR.
10. ALL ELEC. & TELEPHONE, GAS LINE, AND UTILITY EASEMENTS SHOWN TO BE VACATED.

NOTE:
EXISTING EASEMENTS FOR UNDERGROUND TELEPHONE, GAS & ELECTRIC NO LONGER IN PLACE/BEING UTILIZED WILL BE VACATED. SANTA MARIA COMMUNITY SERVICES IS IN CONTACT WITH DUKE ENERGY REGARDING VACATION PROCESS.

ZONING

SUBJECT PROPERTY IS ZONED "PD" PLANNED UNIT DEVELOPMENT DISTRICT.

SUBJECT PROPERTY IS ALSO LOCATED IN A HILLSIDE DISTRICT.

FLOOD ZONE

SUBJECT PROPERTY IS LOCATED IN FLOOD ZONE "X" AS DETERMINED BY A PERSONAL REVIEW OF FLOOD MAP. NO. 39061C0327E, DATED FEBRUARY 17, 2010 OF THE NATIONAL FLOOD INSURANCE PROGRAM.

UNDERGROUND UTILITIES

EXISTING UNDERGROUND UTILITIES REPRESENTED ON THIS DRAWING ARE APPROXIMATE LOCATION ONLY BASED ON FIELD OBSERVATIONS AND AVAILABLE RECORDS. CONTACT THE LOCAL UTILITY PROTECTION SERVICES AND AGENCIES PRIOR TO ANY EXCAVATION OR CONSTRUCTION.

LEGEND

	Ex. Utility Pole
	Ex. Electric Manhole
	Ex. Sign
	Ex. Fire Hydrant
	Ex. Water Valve
	Ex. Gas Valve
Ex. San. MH	Ex. Sanitary Sewer Manhole
Ex. C.B.	Ex. Catch Basin
	Ex. Double Gutter Inlet
OU	Ex. Overhead Utility Lines
UT	Ex. Underground Telephone
FO	Ex. Underground Fiber Optic Lines

ELEVATION DATUM SHOWN IS RELATIVE TO NAVD 88 BASED ON VRS GPS OBSERVATIONS.

OHIO Utilities Protection SERVICE Call Before You Dig
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811 Know what's below. Call before you dig.

STATE OF OHIO BENJAMIN POOLE 86431 REGISTERED PROFESSIONAL ENGINEER
12/5/25

Date	12-5-25
Drawn By	B.P.
Checked By	C.A.
Scale	1" = 30'

REVISIONS
1-9-26, BSE PROGRESS SET
1-30-26, PERMIT ISSUE

DWG: 25-0131\DSGN\BP-STPL-PH2

Sheet Title: EX. CONDITIONS & DEMO PLAN

Project Title: SANTA MARIA COMMUNITY SERVICES
SECTION-36, TOWN-4, F.RANGE-1
CITY OF CINCINNATI
HAMILTON COUNTY, OHIO

Abercrombie & Associates, Inc.
Civil Engineering + Surveying
8111 Cheviot Road, Suite 200
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Page C 200

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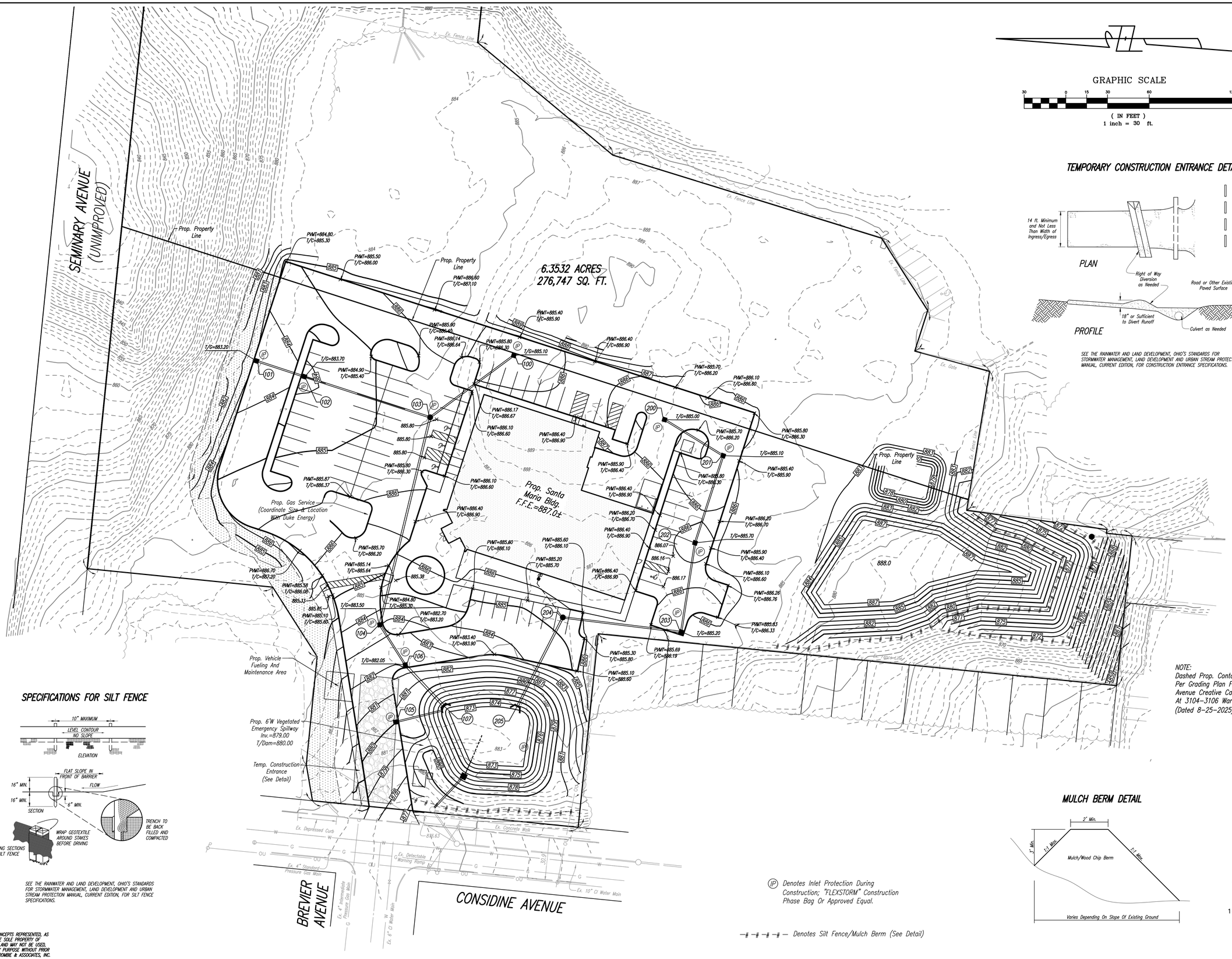
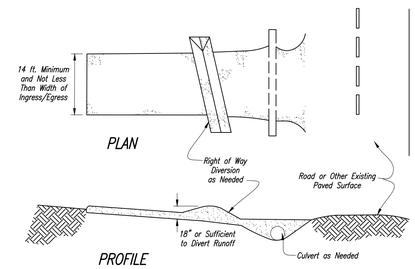


GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

TEMPORARY CONSTRUCTION ENTRANCE DETAIL



SEE THE RAINWATER AND LAND DEVELOPMENT, OHIO'S STANDARDS FOR STORMWATER MANAGEMENT, LAND DEVELOPMENT AND URBAN STREAM PROTECTION MANUAL, CURRENT EDITION, FOR CONSTRUCTION ENTRANCE SPECIFICATIONS.

NOTE:
Dashed Prop. Contour Lines Shown Per Grading Plan For Warsaw Avenue Creative Campus Located At 3104-3106 Warsaw Avenue (Dated 8-25-2025)

SPECIFICATIONS FOR SILT FENCE

SEE THE RAINWATER AND LAND DEVELOPMENT, OHIO'S STANDARDS FOR STORMWATER MANAGEMENT, LAND DEVELOPMENT AND URBAN STREAM PROTECTION MANUAL, CURRENT EDITION, FOR SILT FENCE SPECIFICATIONS.

MULCH BERM DETAIL

(IP) Denotes Inlet Protection During Construction; "FLEXSTORM" Construction Phase Bag Or Approved Equal.

—#—#—#— Denotes Silt Fence/Mulch Berm (See Detail)

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811
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STATE OF OHIO
BENJAMIN POOLE
88431
REGISTERED PROFESSIONAL ENGINEER
1/30/26

Date 12-5-25
Drawn By B.P.
Checked By C.A.
Scale 1" = 30'

REVISIONS
1-9-26, 80% PROGRESS SET
1-30-26, PERMIT ISSUE

DWG: 25-0131\DSGN\BP-STPL-PH2

Sheet Title
GRADING & DETENTION PLAN

Project Title
SANTA MARIA COMMUNITY SERVICES
SECTION-36, TOWN-4, F.RANGE-1
CITY OF CINCINNATI
HAMILTON COUNTY, OHIO

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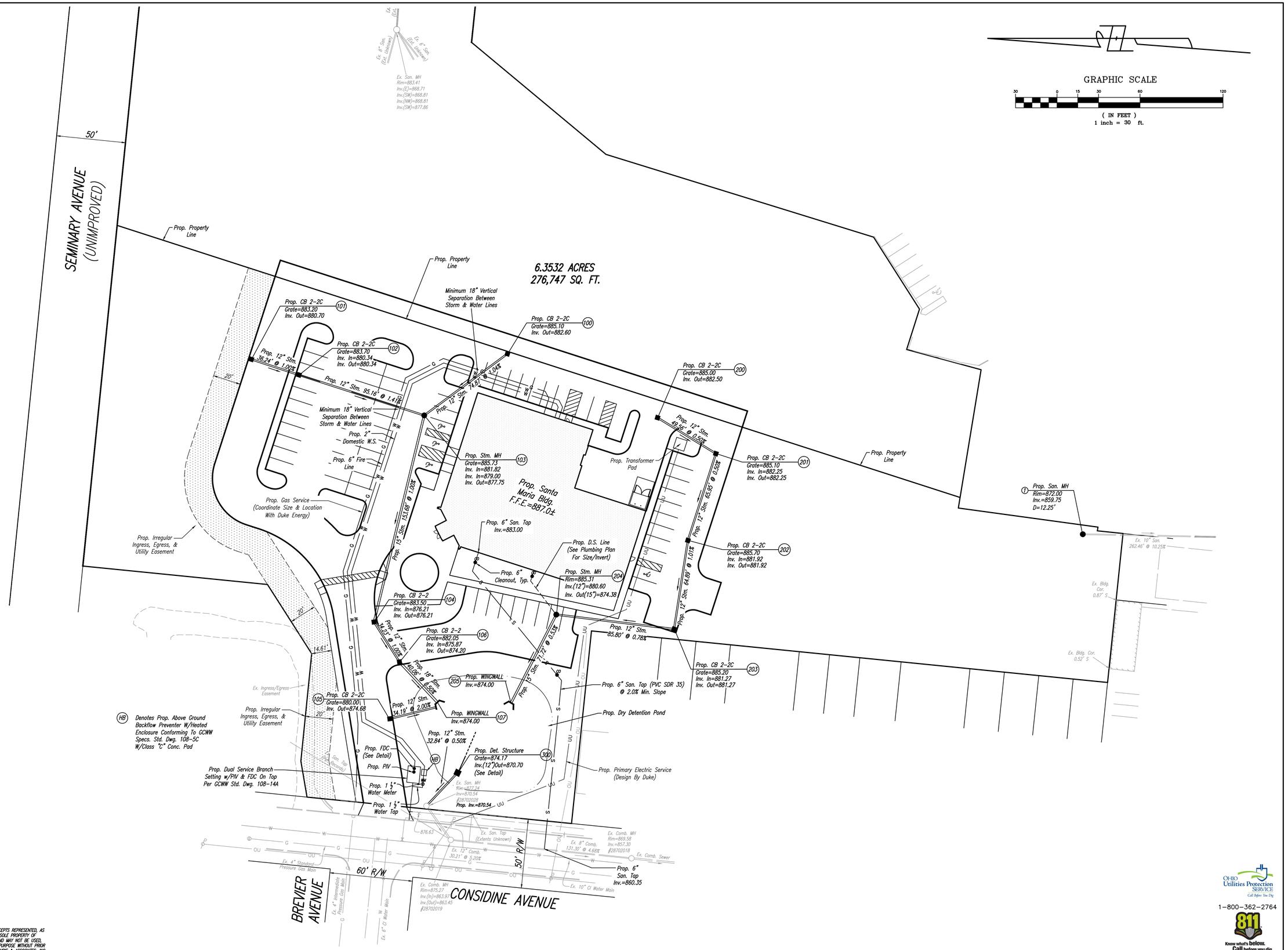
Page C / 300



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STATE OF OHIO BENJAMIN POOLE 86431 PROFESSIONAL ENGINEER
12/5/25

Date	12-5-25
Drawn By	B.P.
Checked By	C.A.
Scale	1" = 30'

REVISIONS
1-9-26, SITE PROGRESS SET
1-30-26, PERMIT ISSUE

DWG: 25-0131\DSGN\BP-STPL-PH2

Sheet Title: UTILITY PLAN

Project Title: SANTA MARIA COMMUNITY SERVICES
SECTION-36, TOWN-4, F.RANGE-1
CITY OF CINCINNATI
HAMILTON COUNTY, OHIO

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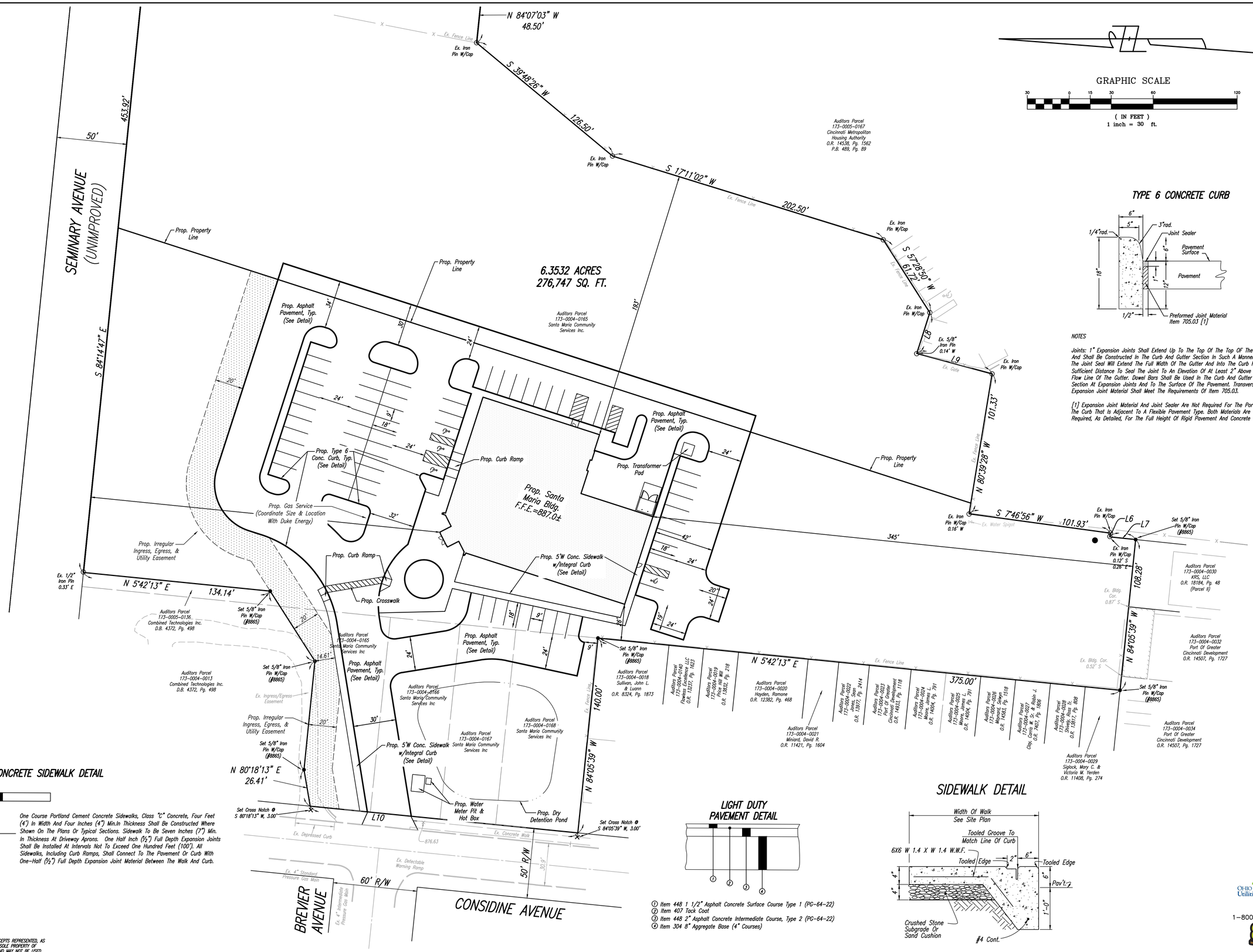
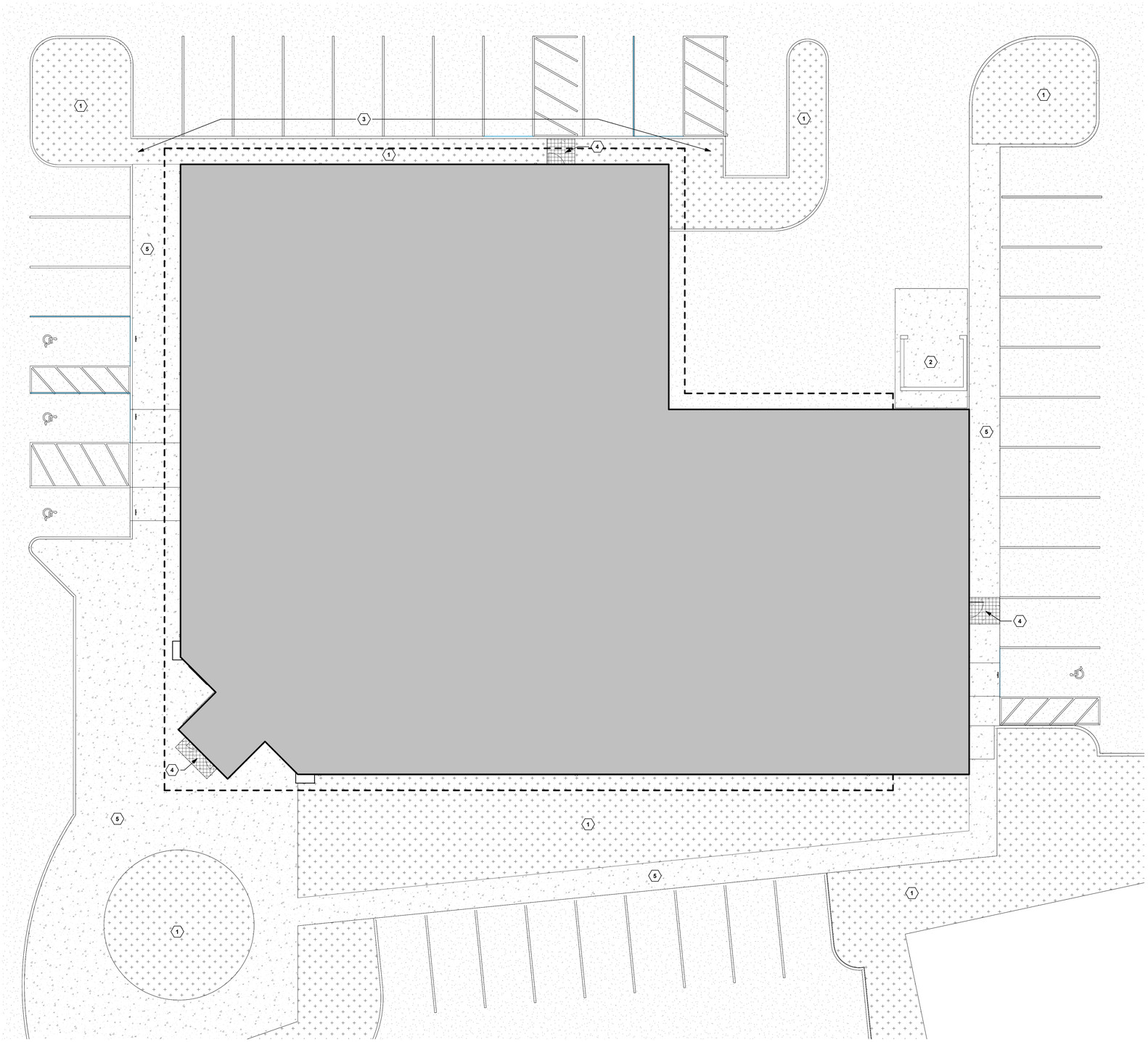
Page C / 400


N 84°07'03" W
48.50'
Ex. Fence Line
Ex. Iron Pin W/Cap
S 39°48'26" W
126.50'
Ex. Iron Pin W/Cap
S 17°11'02" W
202.50'
Ex. Fence Line
Auditors Parcel
173-0005-0167
Cincinnati Metropolitan
Housing Authority
O.R. 14538, Pg. 1562
P.B. 489, Pg. 89
Ex. Iron Pin W/Cap
S 57°28'50" W
61.72'
Ex. Iron Pin W/Cap
L8
Ex. 5/8" Iron Pin 0.14' W
L9
Ex. Gate
Ex. Iron Pin W/Cap
101.33'
N 80°39'28" W
Ex. Fence Line
Prop. Property Line
S 7°46'56" W
101.93'
Ex. Iron Pin W/Cap 0.16' W
Ex. Water Spigot
Ex. Iron Pin W/Cap
L6
L7
Set 5/8" Iron Pin W/Cap (#8865)
Ex. Iron Pin W/Cap 0.12' S 0.26' E
108.28'
N 84°05'39" W
Ex. Bldg. Cor. 0.87' S
Ex. Bldg. Cor. 0.52' S
Set 5/8" Iron Pin W/Cap (#8865)
Auditors Parcel
173-0004-0030
KRS, LLC
O.R. 18184, Pg. 48
(Parcel II)
Auditors Parcel
173-0004-0032
Port Of Greater
Cincinnati Development
O.R. 14507, Pg. 1727
Auditors Parcel
173-0004-0034
Port Of Greater
Cincinnati Development
O.R. 14507, Pg. 1727
Auditors Parcel
173-0004-0029
Siplock, Mary C. &
Victoria M. Yerden
O.R. 11408, Pg. 274
Auditors Parcel
173-0004-0028
Shively, Ross Tr.
O.R. L8017, Pg. 808
Auditors Parcel
173-0004-0027
Cipp, Carol M. & Robin L.
O.R. 7401, Pg. 808
Auditors Parcel
173-0004-0026
Wright, Sue
O.R. 14581, Pg. 1518
Auditors Parcel
173-0004-0025
Moore, James L.
O.R. 14604, Pg. 791
Auditors Parcel
173-0004-0024
Moore, James L.
O.R. 14604, Pg. 791
Auditors Parcel
173-0004-0023
Port Of Greater
Cincinnati Development
O.R. 14633, Pg. 1118
Auditors Parcel
173-0004-0022
Sean
O.R. 13973, Pg. 2414
Auditors Parcel
173-0004-0021
Minnard, David R.
O.R. 11421, Pg. 1604
Auditors Parcel
173-0004-0020
Hayden, Ramone
O.R. 12382, Pg. 468
Auditors Parcel
173-0004-0019
Hayden, Ramone
O.R. 12382, Pg. 218
Auditors Parcel
173-0004-0018
Sullivan, John L.
& Luann
O.R. 8324, Pg. 1873
Auditors Parcel
173-0004-0016
Tiffany Development LLC
Fawkes Enterprises
O.R. 12331, Pg. 1623
Set 5/8" Iron Pin W/Cap (#8865)
N 5°42'13" E
Ex. Fence Line
375.00'
140.00'
N 84°05'39" W
Set 5/8" Iron Pin W/Cap (#8865)
Set Cross Notch @ S 84°05'39" W, 3.00'
L10
Ex. Concrete Walk
876.63
Ex. Defectable Warning Ramp
Ex. Depressed Curb
Ex. 4" Standard Pressure Gas Main
60' R/W
50' R/W
30.9'
BREVIER AVENUE
Ex. 4" Intermediate Pressure Gas Main
CONSIDINE AVENUE
Prop. Water Meter Pit & Hot Box
Prop. Dry Detention Pond
Prop. 5'W Conc. Sidewalk w/Integral Curb (See Detail)
Prop. Irregular Ingress, Egress, & Utility Easement
Ex. Ingress/Egress Easement
Prop. Irregular Ingress, Egress, & Utility Easement
20'
30'
Set 5/8" Iron Pin W/Cap (#8865)
N 80°18'13" E
26.41'
Set Cross Notch @ S 80°18'13" W, 3.00'
Auditors Parcel
173-0004-0166
Santa Maria Community
Services Inc
Auditors Parcel
173-0004-0167
Santa Maria Community
Services Inc
Auditors Parcel
173-0004-0168
Santa Maria Community
Services Inc
Prop. Asphalt Pavement, Typ. (See Detail)
Prop. Curb Ramp
Prop. Crosswalk
Prop. 5'W Conc. Sidewalk w/Integral Curb (See Detail)
Prop. Santa Maria Bldg. F.F.E.=887.0±
Prop. Transformer Pad
Prop. Asphalt Pavement, Typ. (See Detail)
Prop. Type 6 Conc. Curb, Typ. (See Detail)
Prop. Gas Service (Coordinate Size & Location With Duke Energy)
Prop. Curb Ramp
Prop. Asphalt Pavement, Typ. (See Detail)
Prop. Property Line
Prop. Property Line
6.3532 ACRES
276,747 SQ. FT.
Auditors Parcel
173-0004-0165
Santa Maria Community
Services Inc
Auditors Parcel
173-0005-0136
Combined Technologies Inc.
D.B. 4372, Pg. 498
Auditors Parcel
173-0004-0013
Combined Technologies Inc.
D.B. 4372, Pg. 498
Ex. 1/2" Iron Pin 0.33' E
N 5°42'13" E
134.14'
Set 5/8" Iron Pin W/Cap (#8865)
14.61'
Set 5/8" Iron Pin W/Cap (#8865)
SEMINARY AVENUE
(UNIMPROVED)
S 84°14'47" E
453.92'
50'
Prop. Property Line
193'
345'
108.28'
Ex. Fence Line
Ex. Fence Line
Ex. Fence Line



1 A001 ARCHITECTURAL SITE PLAN
1/8" = 1'-0"

PLAN NORTH

GENERAL NOTES

A. SITE INFORMATION SHOWN ON ARCHITECTURAL DRAWINGS IS FOR COORDINATION PURPOSES ONLY. REFER TO CIVIL ENGINEERS DRAWINGS FOR CONSTRUCTION. GENERAL CONTRACTOR TO COORDINATE ALL UTILITY BUILDING ENTRY LOCATIONS WITH CIVIL ENGINEER.

B. CONTRACTOR TO COORDINATE REQUIRED ROUGH OPENING SIZES.

C. EXTERIOR WINDOW TYPES ARE INDICATED ON THE EXTERIOR ELEVATIONS ON SHTS. A201 AND A202.

KEY NOTES

1. LANDSCAPING - SEE CIVIL/LANDSCAPING PLANS
2. TRASH ENCLOSURE - SEE SHT. A423 FOR DETAILS.
3. ALTERNATE: IN LIEU OF LANDSCAPING, PROVIDE SIDEWALK ALONG THIS SIDE OF THE BUILDING.
4. FROST SLAB LOCATION AT EXTERIOR DOOR - COORDINATE W/ CIVIL DWGS. - SEE DETAIL #5, SHT. A531.
5. CONCRETE SIDEWALK - SEE CIVIL DWGS. FOR DETAILS AND SLOPES.

ATA ARCHITECTS
1063 Central Avenue Cincinnati Ohio, 45202
p: 513-241-4422 f: 513-241-5560 www.ATA-B.com

SANTA MARIA COMMUNITY SERVICES

model group

JS|HELD

SANTA MARIA COMMUNITY SERVICES

1048 CONSIDINE AVE.
CINCINNATI, OHIO 45205

CERTIFICATION

STATE OF OHIO
ROBERT N. HUMASON
14056
REGISTERED ARCHITECT

REVISIONS

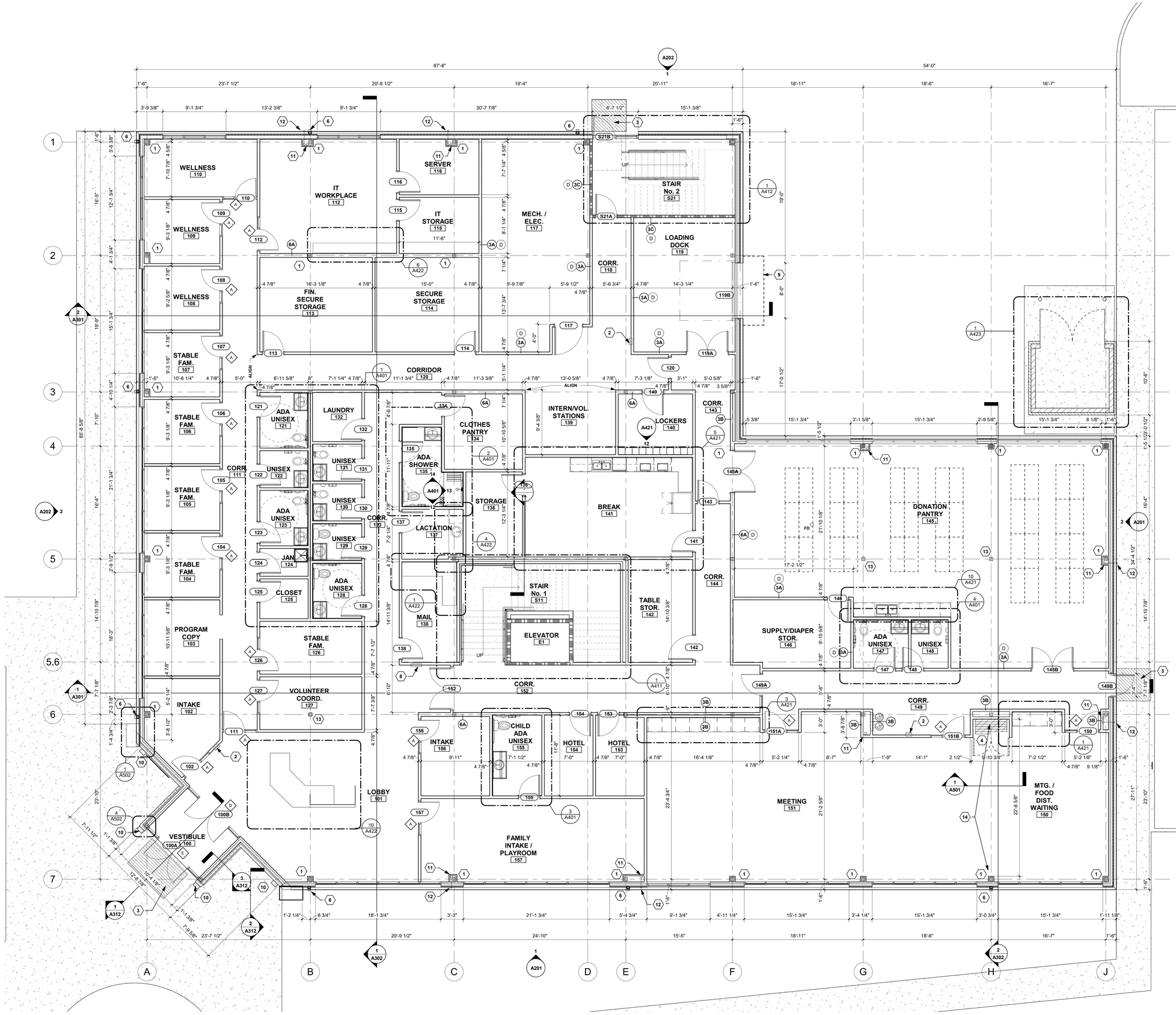
#	DATE	DESCRIPTION
	01-09-26	80% PROGRESS

PROJECT #: 25109

DRAWN: TDS **CHECKED:** RNH

ARCHITECTURAL SITE PLAN

A001



1 A101 FIRST FLOOR PLAN
3/16" = 1'-0"

PLAN NORTH

GENERAL NOTES

A. DIMENSIONS ARE TO FACE OF GWB, SHEATHING, COLUMN CENTERLINE, FACE OF NOMINAL MASONRY/CONCRETE UNLESS OTHERWISE NOTED.

B. PROVIDE BLOCKING IN PARTITION WALLS AS REQUIRED FOR SUPPORT OF ALL WALL MOUNTED EQUIPMENT AND ACCESSORIES. REFER TO INTERIOR ELEVATIONS AND EQUIPMENT PLANS.

C. REFER TO SCHEDULE SHEETS FOR INFORMATION ON DOOR, WALL, WINDOW, FIXTURES & EQUIPMENT.

D. CONTRACTOR TO COORDINATE REQUIRED ROUGH OPENING SIZES.

E. ALL WALL TYPES ARE TO BE 3A, UNLESS NOTED OTHERWISE.

F. INTERIOR WINDOW TYPES ARE LOCATED ON THE PLANS. EXTERIOR WINDOW TYPES ARE INDICATED ON THE EXTERIOR ELEVATIONS ON SHTS. A201 AND A202.

G. SEE EXTERIOR ELEVATIONS A201 AND A202 FOR LOCATIONS OF EXTERIOR WALL PAK LIGHTING.

KEY NOTES

1. HOLD WALL CONSTRUCTION TIGHT TO COLUMN.
2. SEMI-RECESSED FIRE EXTINGUISHER CABINET.
3. PROVIDE FROST SLAB 5'-0" d. x DOOR WIDTH + 1'-0" w.
4. PAIRED PANEL OPERABLE PARTITION
   - BASIS OF DESIGN: MODERNFOLD ACOUSTI-SEAL ENCORE SERIES - STC 56 - FIELD VERIFY SPAN OF DOOR INFILL.
5. WALL MOUNTED PAINTED STEEL LADDER ACCESS TO 36"x36" ROOF HATCH.
6. 3x4 DOWNSPOUT PRE-FIN ALUM. DOWNSPOUT.
7. PROVIDE 2" THK. BLACK RUBBER MAT LANDING AND REDUCER STRIP.
8. PROVIDE WALL MOUNTED AUTOMATED EXTERNAL DEFIBRILLATOR (AED) UNIT.
9. 3'-0 x 10'-0" FABRIC CANOPY ON 1" ALUMINUM FRAME - SEE SECTION #4 ON A312.
10. WALL MOUNTED LIGHT FIXTURE.
11. HOLD WALL CONSTRUCTION TIGHT TO STORM DRAIN LINES.
12. EXTERIOR OVERFLOW NOZZLE. - SEE EXTERIOR ELEVATIONS.
13. PAINT STEEL COLUMN TO DECK.
14. CONCRETE FLOOR SLAB BELOW OPERABLE PARTITION MUST MEET 1/8" PER 10'-0" TOLERANCE.

ANNOTATION LEGEND

#	KEY NOTE
ROOM XXX	ROOM NAME ROOM NUMBER
###	DOOR NUMBER
#x	WALL TYPE
TA-##	TOILET ACCESSORY TYPE
X	WINDOW TYPE

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CERTIFICATION

STATE OF OHIO
ROBERT N. HUMASON
114056
REGISTERED ARCHITECT

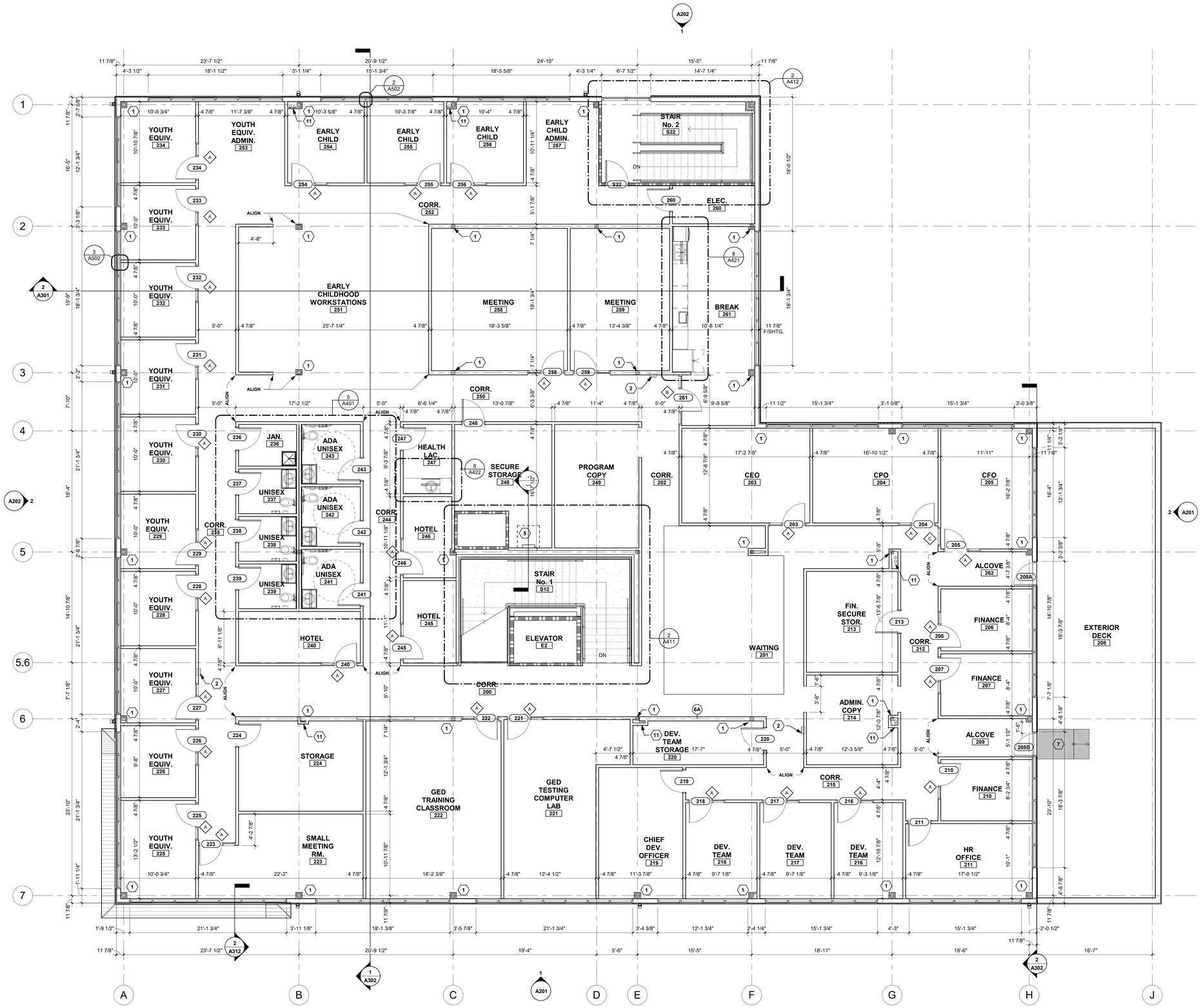
REVISIONS

#	DATE	DESCRIPTION
	01-09-26	80% PROGRESS

PROJECT #: 25109
DRAWN: TDS CHECKED: RNH

FIRST FLOOR PLAN

A101



1 A102 SECOND FLOOR PLAN
3/16" = 1'-0"

PLAN NORTH

GENERAL NOTES

A. DIMENSIONS ARE TO FACE OF GWB, SHEATHING, COLUMN CENTERLINE, FACE OF NOMINAL MASONRY/CONCRETE UNLESS OTHERWISE NOTED.

B. PROVIDE BLOCKING IN PARTITION WALLS AS REQUIRED FOR SUPPORT OF ALL WALL MOUNTED EQUIPMENT AND ACCESSORIES. REFER TO INTERIOR ELEVATIONS AND EQUIPMENT PLANS.

C. REFER TO SCHEDULE SHEETS FOR INFORMATION ON DOOR, WALL, WINDOW, FIXTURES & EQUIPMENT.

D. CONTRACTOR TO COORDINATE REQUIRED ROUGH OPENING SIZES.

E. ALL WALL TYPES ARE TO BE 3A, UNLESS NOTED OTHERWISE.

F. INTERIOR WINDOW TYPES ARE LOCATED ON THE PLANS. EXTERIOR WINDOW TYPES ARE INDICATED ON THE EXTERIOR ELEVATIONS ON SHTS. A201 AND A202.

G. SEE EXTERIOR ELEVATIONS A201 AND A202 FOR LOCATIONS OF EXTERIOR WALL PAK LIGHTING.

KEY NOTES

1. HOLD WALL CONSTRUCTION TIGHT TO COLUMN.
2. SEMI-RECESSED FIRE EXTINGUISHER CABINET.
3. PROVIDE FROST SLAB 5'-0" d. x DOOR WIDTH + 1'-0" w.
4. PAIRED PANEL OPERABLE PARTITION
   - BASIS OF DESIGN: MODERNFOLD ACOUSTI-SEAL ENCORE SERIES - STC 56 - FIELD VERIFY SPAN OF DOOR INFILL.
5. WALL MOUNTED PAINTED STEEL LADDER ACCESS TO 36"x36" ROOF HATCH.
6. 3x4 DOWNSPOUT PRE-FIN ALUM. DOWNSPOUT.
7. PROVIDE 2" THK. BLACK RUBBER MAT LANDING AND REDUCER STRIP.
8. PROVIDE WALL MOUNTED AUTOMATED EXTERNAL DEFIBRILLATOR (AED) UNIT.
9. 3'-0 x 10'-0" FABRIC CANOPY ON 1" ALUMINUM FRAME - SEE SECTION #4 ON A312.
10. WALL MOUNTED LIGHT FIXTURE.
11. HOLD WALL CONSTRUCTION TIGHT TO STORM DRAIN LINES.
12. EXTERIOR OVERFLOW NOZZLE. - SEE EXTERIOR ELEVATIONS.
13. PAINT STEEL COLUMN TO DECK.
14. CONCRETE FLOOR SLAB BELOW OPERABLE PARTITION MUST MEET 1/8" PER 10'-0" TOLERANCE.

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PROJECT #: 25109

DRAWN: TDS **CHECKED:** RNH

SECOND FLOOR PLAN

A102

1 A111 FIRST FLOOR CEILING PLAN
3/16" = 1'-0"

GENERAL NOTES

A. CEILING DIMENSIONS ARE TO FINISHED FACE TYPE TRANSITIONS UNLESS OTHERWISE NOTED.

B. PROVIDE BLOCKING IN PARTITION WALLS AS REQUIRED FOR SUPPORT OF ALL CEILING MOUNTED EQUIPMENT AND ACCESSORIES.

C. LIGHTS FIXTURES IN GWB CEILINGS TO BE CENTERED IN ROOM UNLESS OTHERWISE NOTED.

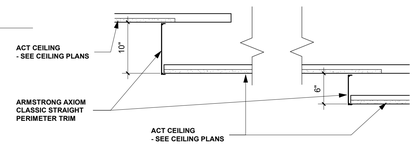
D. USE MOISTURE RESISTANT GWB IN ALL WET AREAS.

E. ALL CEILINGS TO BE 9'-0" AFF, ACT-1, UNLESS OTHERWISE NOTED.

F. LINES ON THE PLANS BETWEEN DIFFERING HEIGHTS, IMPLY A VERTICAL GYP. BD. SURFACE, U.N.O.

KEY NOTES

1. 4" LED COVE LIGHT AT EDGE OF GYP. BD. CEILING - SEE DETAILS #9 AND #10 ON SHT. A411 FOR TYPICAL NOTES.
2. OPEN TO DECK/STRUCTURE ABOVE.
3. COORDINATE SPRINKLER DESIGN W/ OVERHEAD DOOR INSTALLATION AS REQUIRED.
4. OPEN TO ROOF DECK ABOVE FOR ROOF ACCESS/ LADDER.
5. GYP. BD. BULKHEAD @ 9'-0" AFF.
6. RATED SHAFT FOR MECH. DUCTS TO ROOF.



2 A111 SECTION DETAIL
1" = 1'-0"

NOTE: SEE CEILING PLANS FOR OTHER AXIOM SIZES BETWEEN CEILING ELEVATIONS

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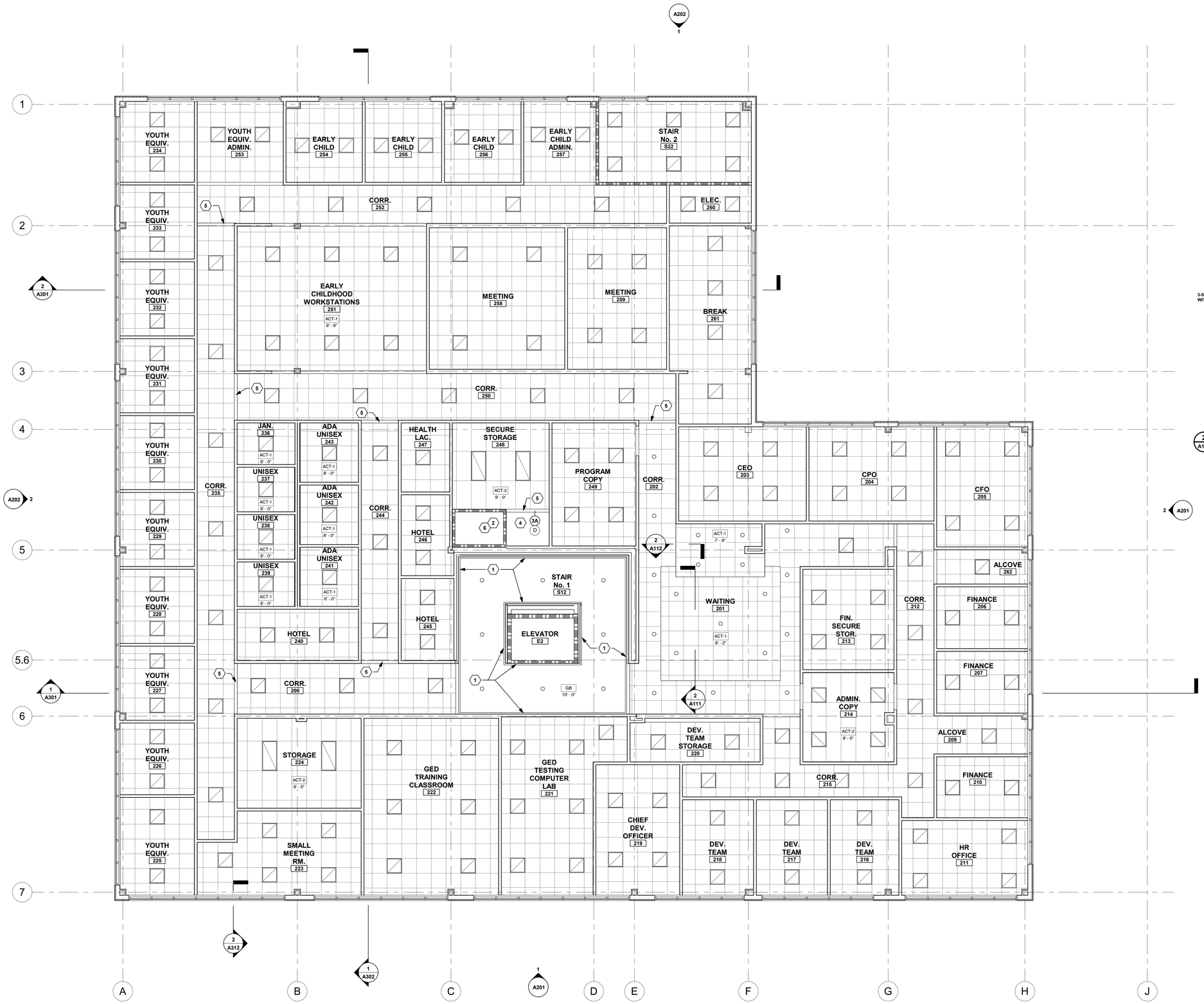
DRAWN: TDS CHECKED: RNH

FIRST FLOOR CEILING PLAN

A111



1 A112 SECOND FLOOR CEILING PLAN
3/16" = 1'-0"

GENERAL NOTES

A. CEILING DIMENSIONS ARE TO FINISHED FACE TYPE TRANSITIONS UNLESS OTHERWISE NOTED.

B. PROVIDE BLOCKING IN PARTITION WALLS AS REQUIRED FOR SUPPORT OF ALL CEILING MOUNTED EQUIPMENT AND ACCESSORIES.

C. LIGHTS FIXTURES IN GWB CEILINGS TO BE CENTERED IN ROOM UNLESS OTHERWISE NOTED.

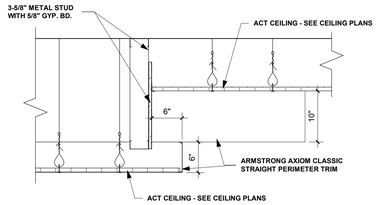
D. USE MOISTURE RESISTANT GWB IN ALL WET AREAS.

E. ALL CEILINGS TO BE 9'-0" AFF, ACT-1, UNLESS OTHERWISE NOTED.

F. LINES ON THE PLANS BETWEEN DIFFERING HEIGHTS, IMPLY A VERTICAL GYP. BD. SURFACE, U.N.O.

KEY NOTES

1. 4" LED COVE LIGHT AT EDGE OF GYP. BD. CEILING - SEE DETAILS #9 AND #10 ON SHT. A411 FOR TYPICAL NOTES.
2. OPEN TO DECK/STRUCTURE ABOVE.
3. COORDINATE SPRINKLER DESIGN W/ OVERHEAD DOOR INSTALLATION AS REQUIRED.
4. OPEN TO ROOF DECK ABOVE FOR ROOF ACCESS/ LADDER.
5. GYP. BD. BULKHEAD @ 9'-0" AFF.
6. RATED SHAFT FOR MECH. DUCTS TO ROOF.



2 A112 SECTION DETAIL
1" = 1'-0"

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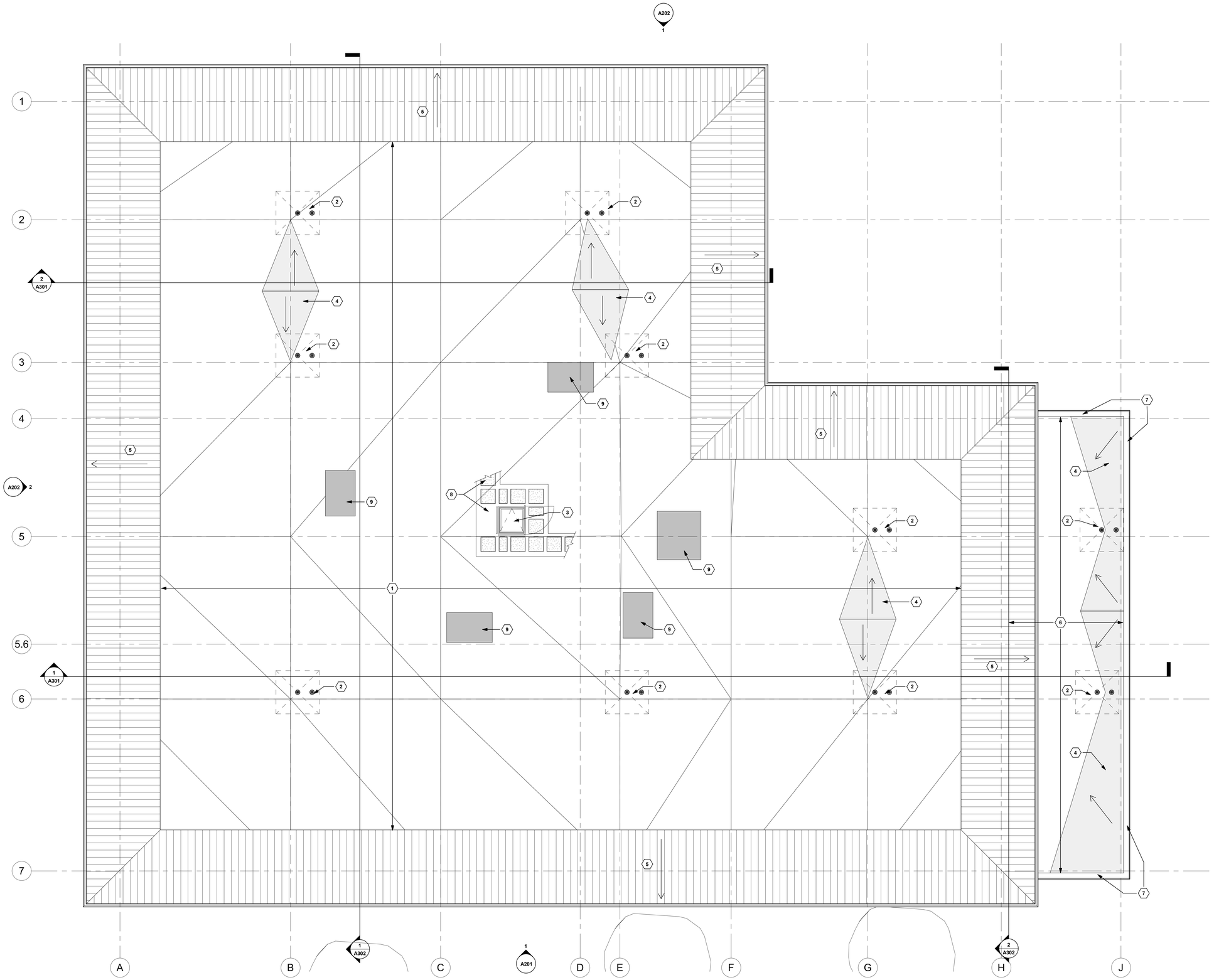
SECOND FLOOR CEILING PLAN

A112



1 A121 ROOF PLAN
3/16" = 1'-0"

GENERAL NOTES

A. CURBS FOR MECHANICAL EQUIPMENT INSTALLED ON MEMBRANE ROOF SHALL BE FURNISHED BY HVAC CONTRACTOR AND INSTALLED BY GENERAL CONTRACTOR WITH NECESSARY FLASHING. COORDINATE WORK W/ HVAC CONTRACTOR. INSTALL PER MANUFACTURER'S INSTRUCTIONS, DETAILS AND STANDARDS. SEE SHT. A531 FOR ADDITIONAL DETAILS.

B. ALL FLASHINGS, TERMINATIONS, ETC. SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS, DETAILS AND STANDARDS.

C. ALL MECHANICAL EQUIPMENT SHALL BE LOCATED IN COORDINATION WITH THE ROOF FRAMING PLAN AND AS VERIFIED BY THE HVAC CONTRACTOR. MECHANICAL EQUIPMENT LOCATIONS INDICATED ON THE ROOF PLAN ARE APPROX. LOCATED.

D. SEE PLUMBING DRAWINGS FOR VENT LOCATIONS. INSTALL PER DETAIL #3 ON SHT. A531.

E. SEE STRUCTURAL DRAWINGS FOR T/STEEL ELEVATIONS.

F. PROVIDE ROOFING SADDLES AND CRICKETS AT ALL MEP PENETRATIONS IN ROOF FOR PROPER DRAINAGE AROUND THESE ELEMENTS AS REQUIRED.

G. PROVIDE SNOW GUARD ACCESSORIES TO ALL SLOPED STANDING SEAM METAL ROOF AREAS.

KEY NOTES

1. SINGLE PLY TPO MEMBRANE ROOFING
2. ROOF DRAIN / OVERFLOW DRAIN - SEE DETAIL #8 ON SHT. A531
3. 36" x 36" ROOF HATCH - SEE DETAIL #1 ON SHT. A531.
4. PROVIDE TAPERED RIGID INSULATION (TONED AREA) FOR DRAINAGE TO ROOF / OVERFLOW DRAINS.
5. PRE-FIN METAL STANDING SEAM ROOF SLOPE.
6. 2x2 (2") RUBBER ROOF TILES - BASIS OF DESIGN: GREATMATS - STERLING ROOF TOP TILES, SOLID COLOR OVER SINGLE PLY TPO MEMBRANE ROOFING ON 1/2" PROTECTION BD. OVER RIGID INSULATION.
7. PRE-FIN METAL COPING.
8. PROVIDE WALK-WAY PADS AROUND ROOF HATCH ACCESS PER DETAIL 3 ON SHT. A531. EXTEND WALKWAY PAD PATH TO ALL ROOF TOP MOUNTED HVAC EQUIPMENT.
9. MECHANICAL ROOF TOP UNITS - SEE MECH. DWGS. FOR FINAL UNIT PLACEMENT, ASSOCIATED DUCTWORK AND MISC. PENETRATIONS.

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DRAWN: TDS **CHECKED:** RNH

ROOF PLAN

A121

GENERAL NOTES

A. DIMENSIONS ARE TO FACE OF GWB, SHEATHING, COLUMN CENTERLINE, FACE OF NOMINAL MASONRY/CONCRETE UNLESS OTHERWISE NOTED.

B. SEE SHT. A603 FOR STOREFRONT, CURTAINWALL AND WINDOW TYPES. (X)

C. REFER TO SCHEDULE SHEETS FOR INFORMATION ON DOOR, WALL, WINDOW, FIXTURES & EQUIPMENT.

D. PROVIDE ALL REQUIRED MFR'S TRIM AND ACCESSORIES FOR FIBER CEMENT SIDING AND METAL SIDING.

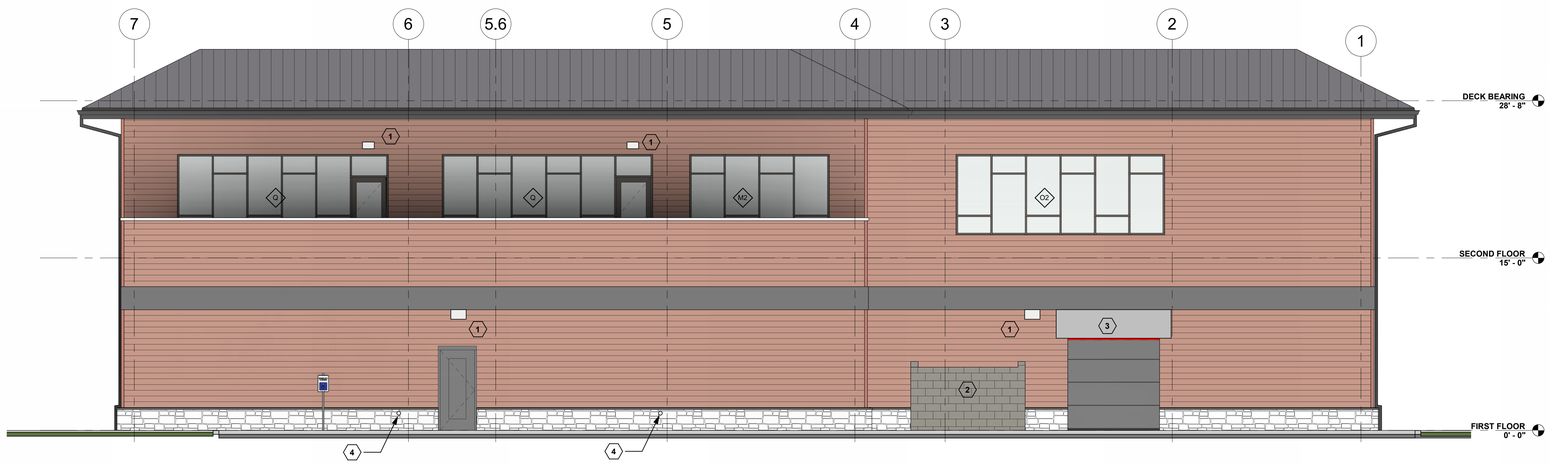
KEY NOTES

1. EXTERIOR WALL PAK LIGHTING - SEE MEP
2. EXTERIOR TRASH ENCLOSURE - SEE DETAILS ON SHT. A423.
3. FABRIC CANOPY - SEE SECTION #4 ON SHT. A312.
4. ROOF DRAINAGE OVERFLOW NOZZLE IN STONE WAINSCOT. CENTER OF NOZZLE TO BE 18" AFF.
5. PROVIDE ON-SITE MOCK-UP OF EXTERIOR BUILDING ELEMENTS REPRESENTED INSIDE OF DASHED BOX, INDICATING ALL MATERIAL TRANSITIONS, SEALANTS AND FINISHES.

EXTERIOR FINISH LEGEND

MARK	GRAPHIC	MATERIAL	MANUFACTURER	MATERIAL TYPE
A		STONE	XXX	XXX
B		FIBER CEMENT SIDING	HARDI BOARD	6"
C		METAL SIDING	MAC METAL ARCHITECTURAL	6" HARRYWOOD PLUS

NOTE: PROVIDE ANTI-GRAFFITI COATING TO CAST STONE



2 A201 EXTERIOR ELEVATION - SOUTH
3/16" = 1'-0"

1 A201 EXTERIOR ELEVATION - WEST
3/16" = 1'-0"

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EXTERIOR ELEVATIONS

A201

GENERAL NOTES

A. DIMENSIONS ARE TO FACE OF GWB, SHEATHING, COLUMN CENTERLINE, FACE OF NOMINAL MASONRY/CONCRETE UNLESS OTHERWISE NOTED.

B. SEE SHT. A603 FOR STOREFRONT, CURTAINWALL AND WINDOW TYPES.

C. REFER TO SCHEDULE SHEETS FOR INFORMATION ON DOOR, WALL, WINDOW, FIXTURES & EQUIPMENT.

D. PROVIDE ALL REQUIRED MFR'S TRIM AND ACCESSORIES FOR FIBER CEMENT SIDING AND METAL SIDING.

KEY NOTES

1. EXTERIOR WALL PAK LIGHTING - SEE MEP
2. EXTERIOR TRASH ENCLOSURE - SEE DETAILS ON SHT. A423.
3. FABRIC CANOPY - SEE SECTION #4 ON SHT. A312.
4. ROOF DRAINAGE OVERFLOW NOZZLE IN STONE WAINSCOT. CENTER OF NOZZLE TO BE 18" AFF.
5. PROVIDE ON-SITE MOCK-UP OF EXTERIOR BUILDING ELEMENTS REPRESENTED INSIDE OF DASHED BOX, INDICATING ALL MATERIAL TRANSITIONS, SEALANTS AND FINISHES.

EXTERIOR FINISH LEGEND

MARK	GRAPHIC	MATERIAL	MANUFACTURER	MATERIAL TYPE
A		STONE	XXX	XXX
B		FIBER CEMENT SIDING	HARDI BOARD	6"
C		METAL SIDING	MAC METAL ARCHITECTURAL	6" HARRYWOOD PLUS

NOTE: PROVIDE ANTI-GRAFFITI COATING TO CAST STONE

2 A202 EXTERIOR ELEVATION - NORTH
3/16" = 1'-0"

1 A202 EXTERIOR ELEVATION - EAST
3/16" = 1'-0"

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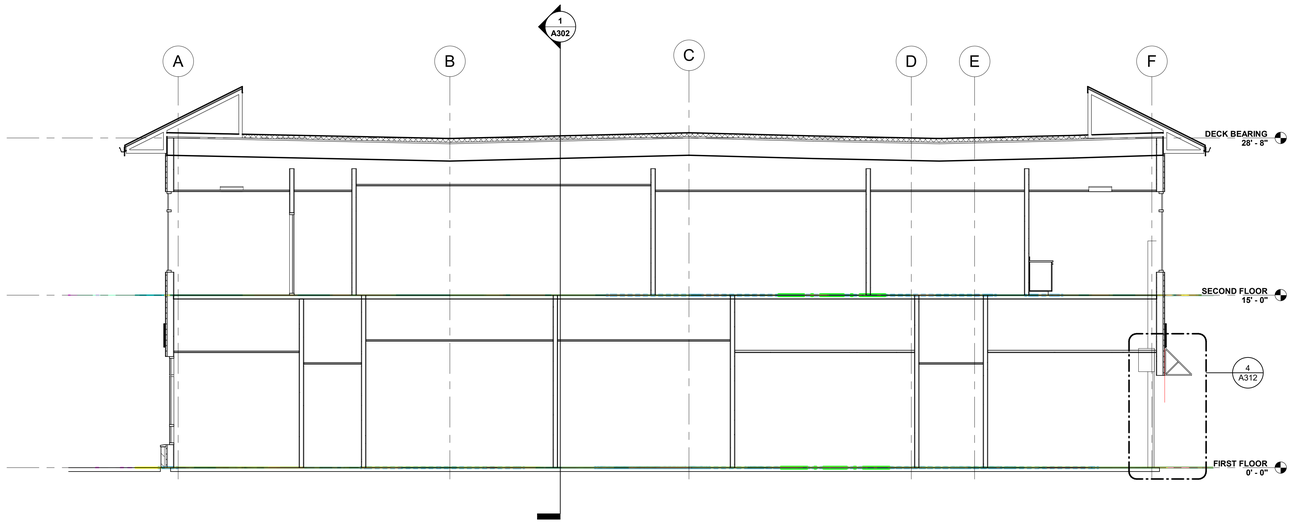
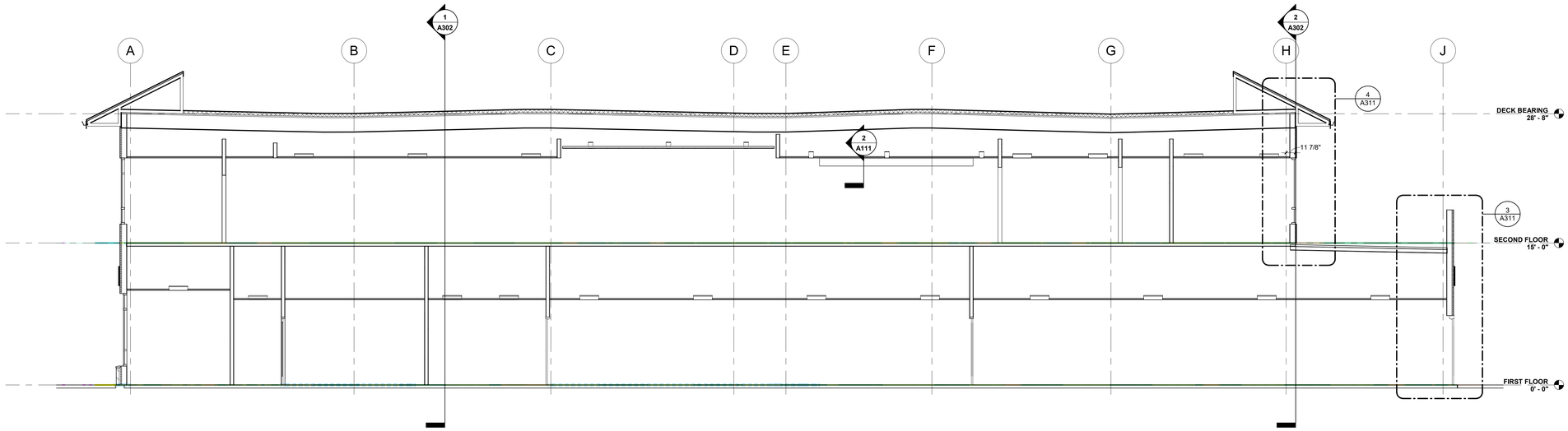
EXTERIOR ELEVATIONS

A202



2 A301 BUILDING SECTION
3/16" = 1'-0"



1 A301 BUILDING SECTION
3/16" = 1'-0"

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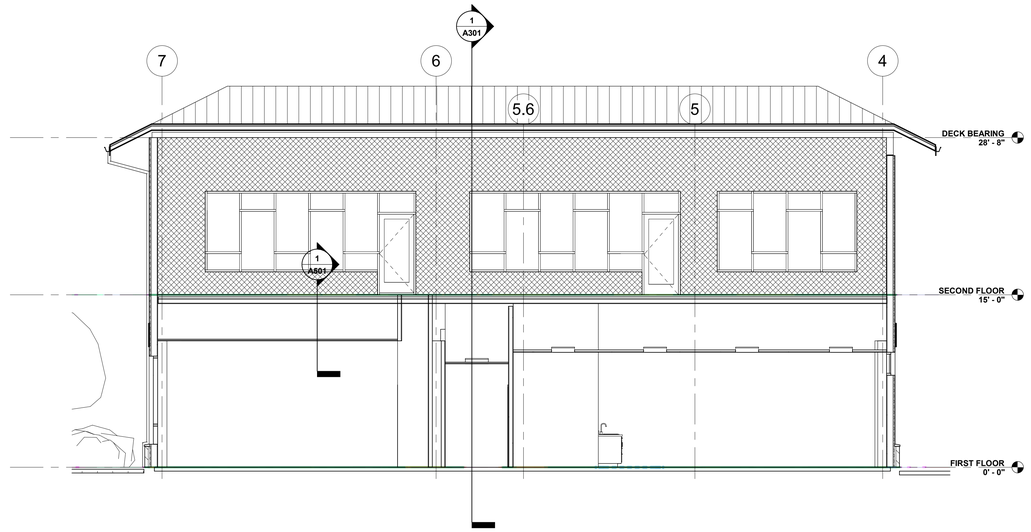
BUILDING SECTIONS

A301



2 A302 BUILDING SECTION
3/16" = 1'-0"

1 A302 BUILDING SECTION
3/16" = 1'-0"

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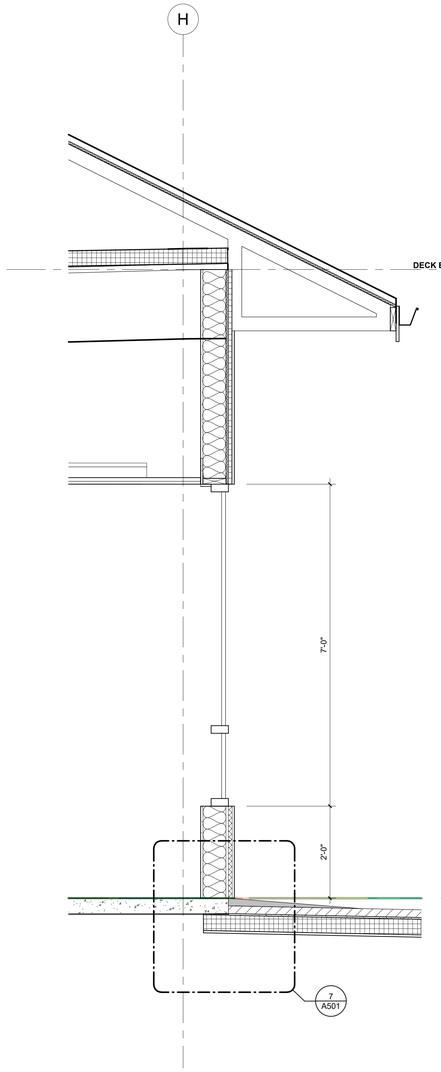
PROJECT #: 25109

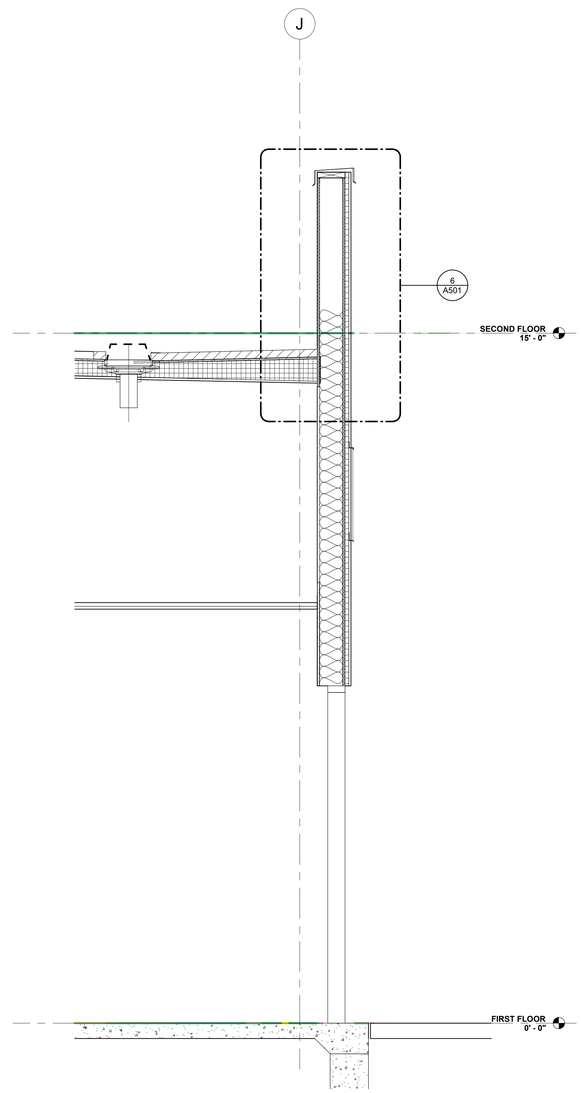
DRAWN: TDS **CHECKED:** RNH

BUILDING SECTIONS

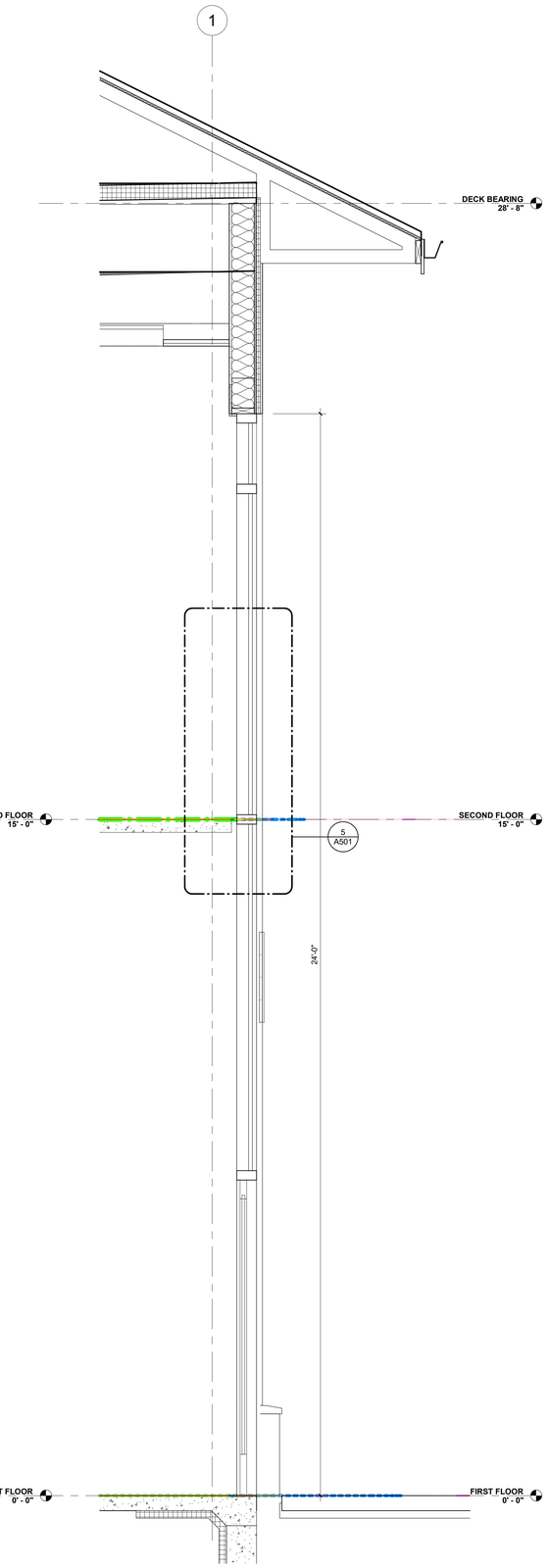
A302



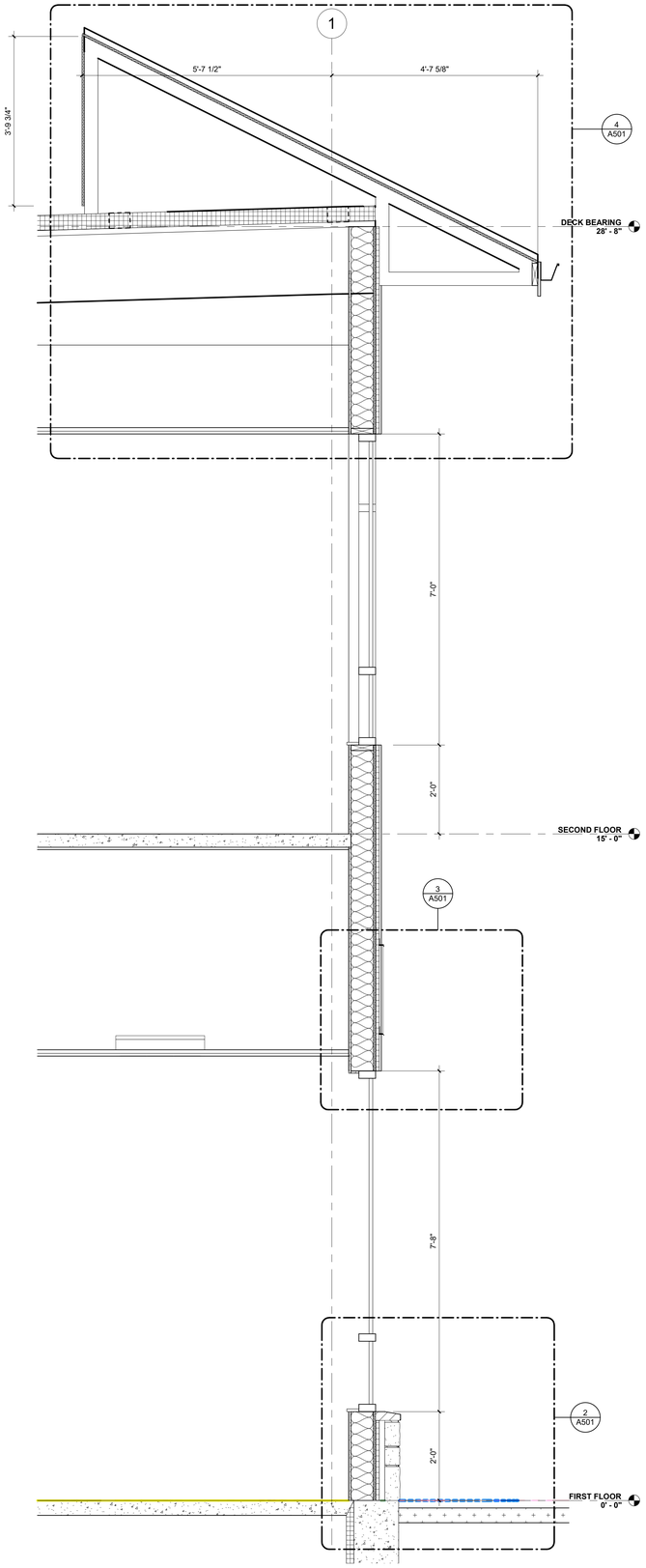
4 A311 WALL SECTION
3/4" = 1'-0"



3 A311 WALL SECTION
3/4" = 1'-0"



2 A311 WALL SECTION
3/4" = 1'-0"



1 A311 WALL SECTION
3/4" = 1'-0"

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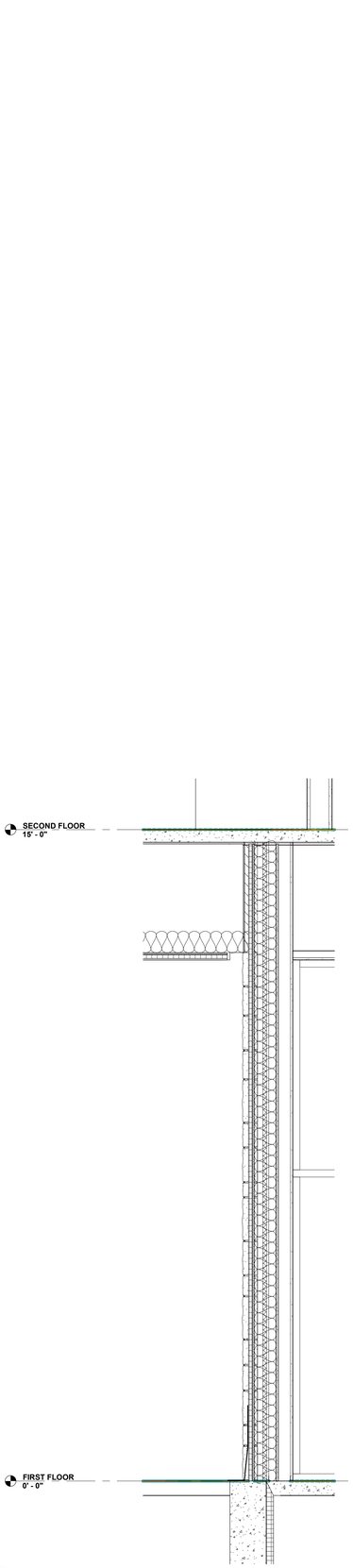
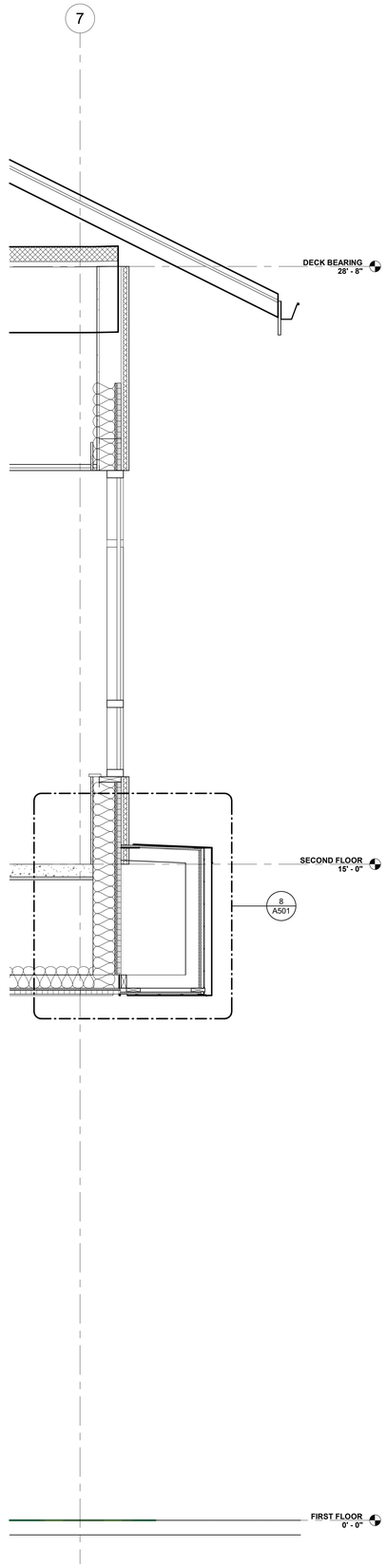
WALL SECTIONS

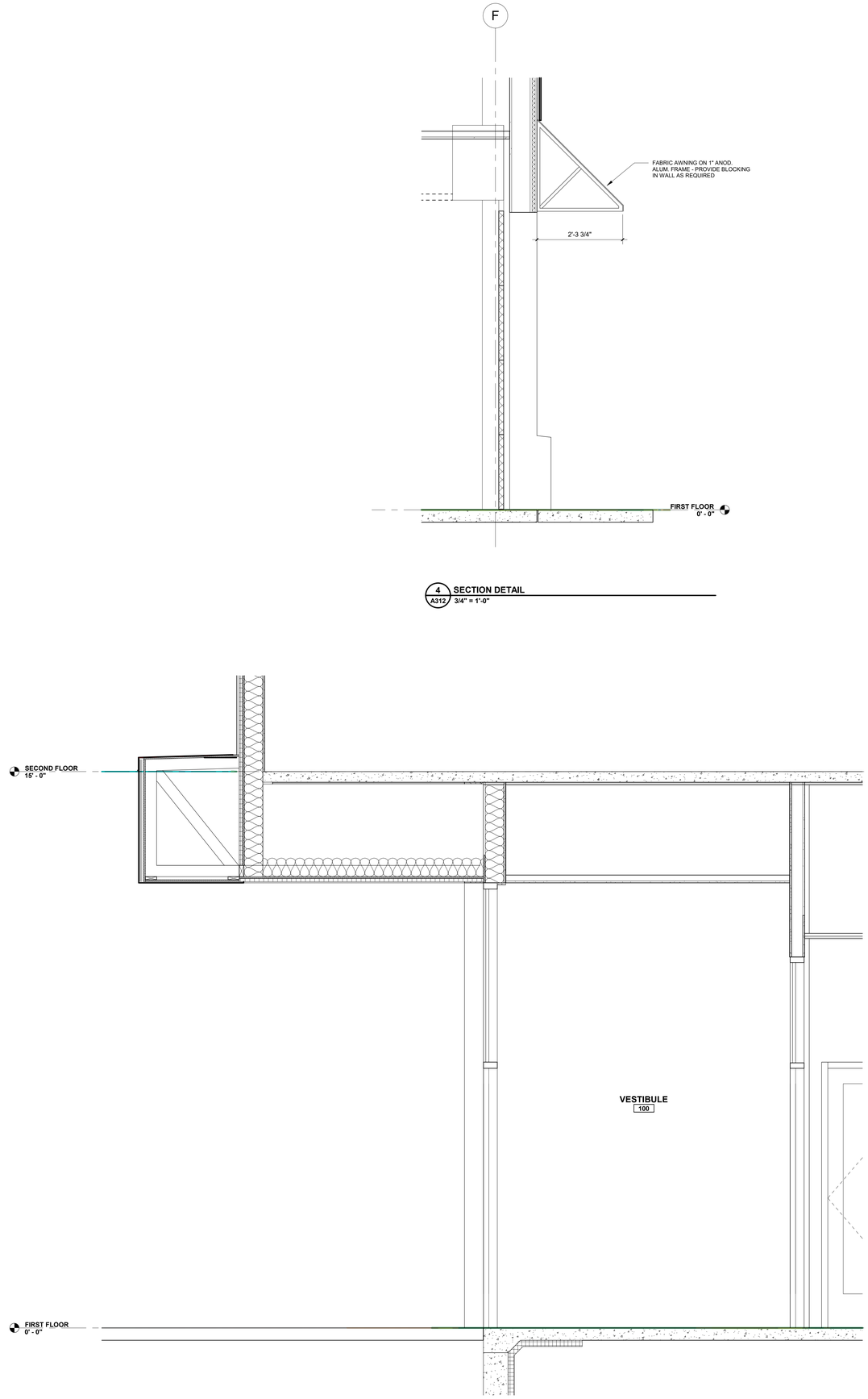
A311



3 A312 WALL SECTION
3/4" = 1'-0"



2 A312 WALL SECTION
3/4" = 1'-0"



4 A312 SECTION DETAIL
3/4" = 1'-0"

1 A312 WALL SECTION
3/4" = 1'-0"

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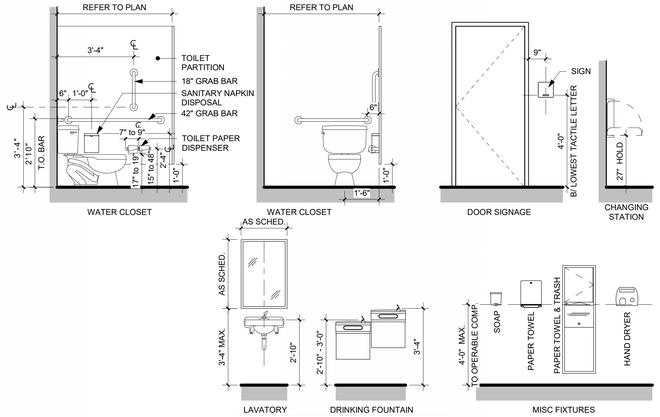
WALL SECTIONS

A312



FOR REFERENCE ONLY: GENERAL ACCESSIBILTY HEIGHTS AND CLEARANCES FOR COMMON FIXTURE TYPES. REFER TO TOILET ACCESSORY SCHEDULE

TOILET ACCESSORY SCHEDULE

TYPE	ITEM	MODEL	FINISH	NOTES
TA1	TOILET PAPER DISPENSER	BOBRICK B-2740	630	A
TA2	SANITARY NAPKIN DISPENSER	BOBRICK B-270	630	A
TA3	PAPER TOWEL DISPENSER	BOBRICK B-9262	630	A, B
TA4	36" GRAB BAR	BOBRICK B-5806 x 36	630	A
TA5	42" GRAB BAR	BOBRICK B-5806 x 42	630	A
TA6	18" GRAB BAR	BOBRICK B-5806 x 18	630	A, C
TA7	24" x 36" MIRROR w STAINLESS STEEL FRAME	BOBRICK B-166 2436		
TA8	24" GRAB BAR	BOBRICK B-5806 x 24	630	A, C
TA9	SHOWER SEAT	BOBRICK B-5193		A, C
TA10	SHOWER CURTAIN AND ROD	BOBRICK B-207	630	A, C

NOTES

A	PROVIDE BLOCKING IN WALL AS REQUIRED.
B	MOUNT w/ DISPENSING AT 44" A.F.F.
C	PROVIDED w/ SHOWER UNIT
D	

GENERAL NOTES

A. DIMENSIONS ARE TO FACE OF SHEATHING, COLUMN CENTERLINE, UNLESS OTHERWISE NOTED.

B. PROVIDE BLOCKING IN PARTITION WALLS AS REQUIRED FOR SUPPORT OF ALL WALL MOUNTED EQUIPMENT AND ACCESSORIES. REFER TO INTERIOR ELEVATIONS AND EQUIPMENT PLANS.

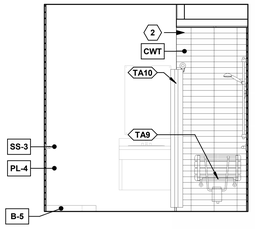
C. REFER TO SHEETS A601 AND A602 FOR INFORMATION ON DOOR, WALL, WINDOW, FIXTURES.

D. CONTRACTOR TO COORDINATE REQUIRED ROUGH OPENING SIZES.

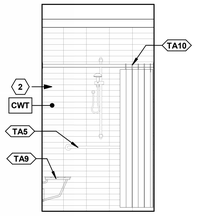
E. USE MOISTURE RESISTANT GYP. BD. IN ALL WET AREAS.

KEY NOTES

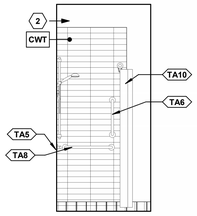
1. ADA SIGNAGE AND 18" x 18" CLEAR FLOOR SPACE, CENTERED ON SIGNAGE.
2. CERAMIC TILE TYPES VARY. SEE SHEET A601 FOR ADDITIONAL INFORMATION.



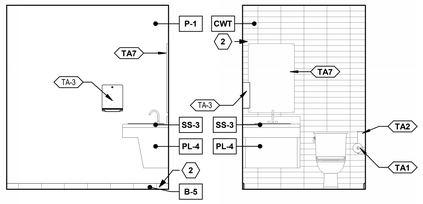
14 A401 INT. ELEV. - TYP. SHOWER
3/8" = 1'-0"



13 A401 INT. ELEV. - TYP. SHOWER
3/8" = 1'-0"

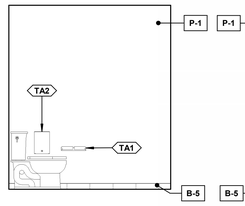


12 A401 INT. ELEV. - TYP. SHOWER
3/8" = 1'-0"



11 A401 INT. ELEV. - TYP. UNISEX
3/8" = 1'-0"

10 A401 INT. ELEV. - TYP. UNISEX
3/8" = 1'-0"



9 A401 INT. ELEV. - TYP. UNISEX
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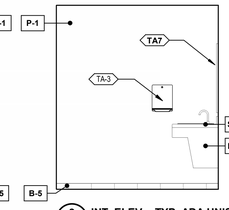
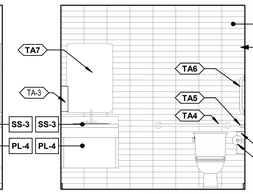


8 A401 INT. ELEV. - TYP. ADA UNISEX
3/8" = 1'-0"



7 A401 INT. ELEV. - TYP. ADA UNISEX
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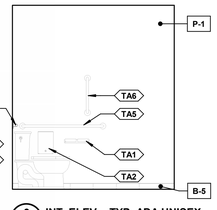
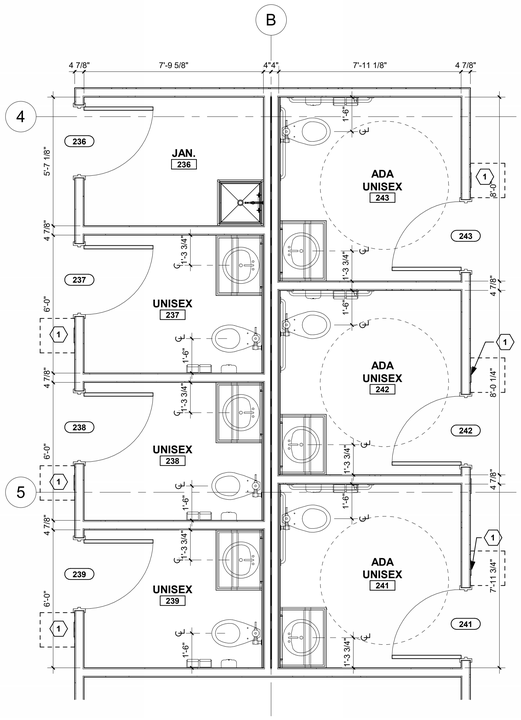
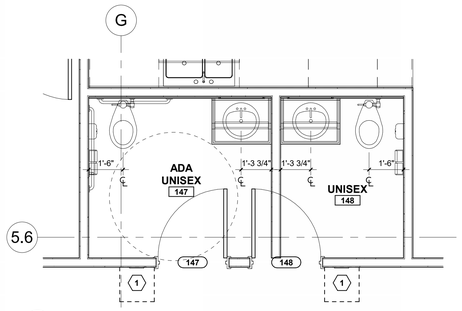


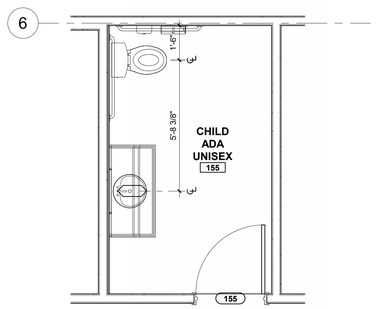
6 A401 INT. ELEV. - TYP. ADA UNISEX
3/8" = 1'-0"



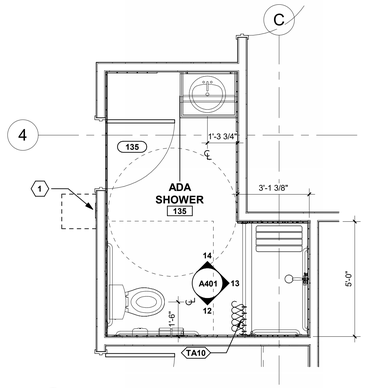
5 A401 ENLARGED FLOOR PLAN - RESTROOMS
3/8" = 1'-0"



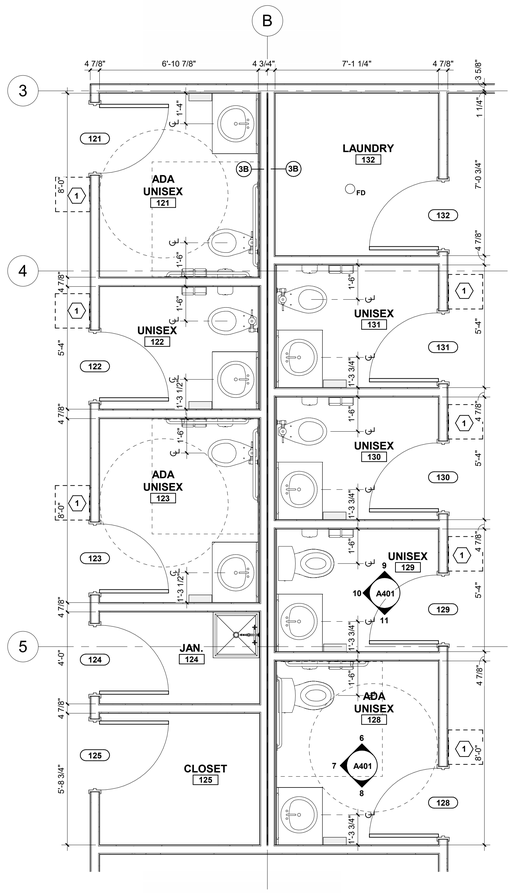
4 A401 ENLARGED FLOOR PLAN - RESTROOMS
3/8" = 1'-0"



3 A401 ENLARGED FLOOR PLAN - CHILD ADA UNISEX #155
3/8" = 1'-0"



2 A401 ENLARGED FLOOR PLAN - SHOWER #135
3/8" = 1'-0"



1 A401 ENLARGED FLOOR PLAN - RESTROOMS
3/8" = 1'-0"

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#	DATE	DESCRIPTION
	01-09-26	80% PROGRESS

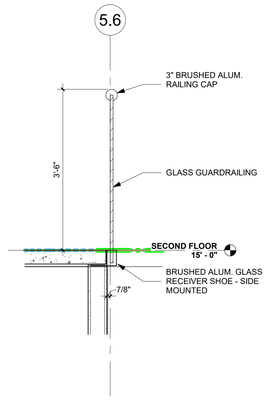
PROJECT #: 25109
DRAWN: TDS CHECKED: RNH

ENLARGED RESTROOM PLANS ELEVATIONS

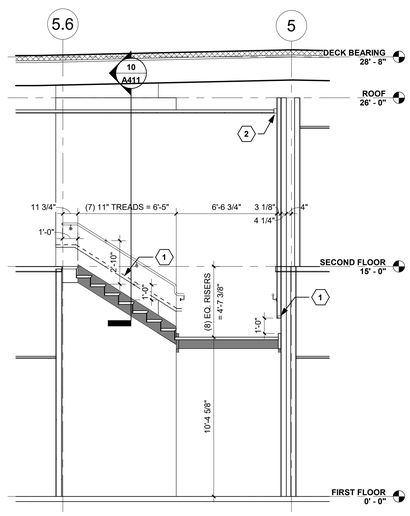
A401

KEY NOTES

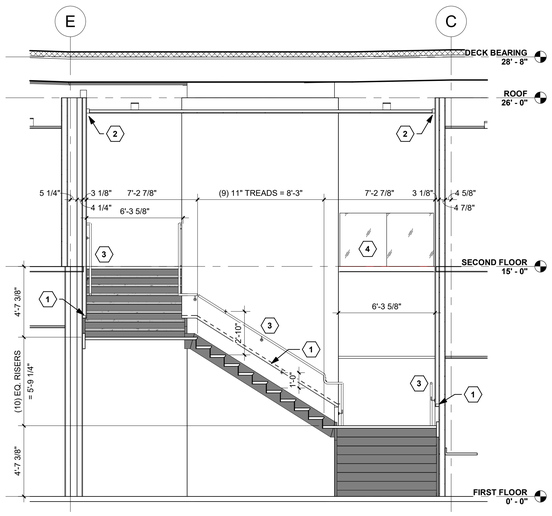
1. LED COVE LIGHT. HOLD 1'-0" ABOVE T/ STRINGER - SEE DETAILS #9 AND #10 ON SHT. A411.
2. 4" LED COVE LIGHT AT EDGE OF GYP. BD. CEILING - SEE DETAILS #9 AND #10 ON SHT. A411.
3. STAINLESS STEEL HANDRAILING AND BRACKET. RETURN EXTENSIONS TO WALL.
4. PROVIDE GLASS GUARDRAILING SET IN BRUSHED ALUM. SHOE, SIDE MOUNTED. W/ 3" BRUSHED ALUM. CAP. SEE DETAIL #11 ON SHT. A411.
5. STEEL STAIRS AND LANDINGS W/ CONC. FILLED PANS W/ NORAMENT ARAGO STAIR TREAD FINISH ON TREADS AND LANDING. ALL EXPOSED STEEL STRINGERS TO BE PAINTED.
6. ADA SIGNAGE.
7. (1) HR RATED MECHANICAL SHAFT.
8. WALL MOUNTED PAINTED STEEL ACCESS LADDER TO 36" x 36" ROOF ACCESS HATCH. PROVIDE BLOCKING IN WALL AS REQUIRED.



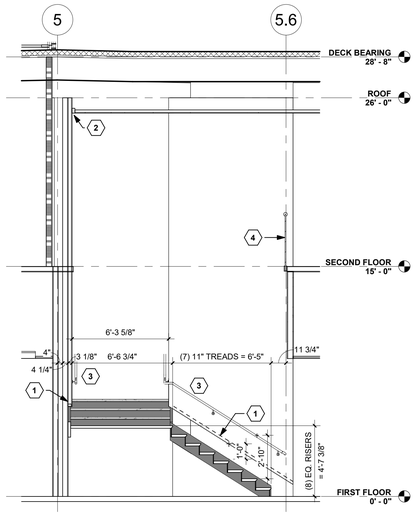
11 A411 SECTION - GLASS GUARDRAILING
3/4" = 1'-0"



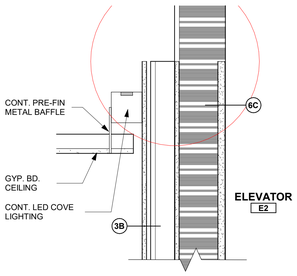
8 A411 SECTION - STAIR S1
1/4" = 1'-0"



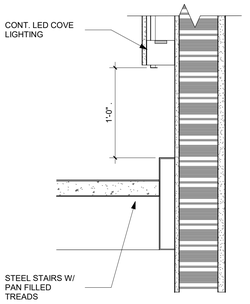
7 A411 SECTION - STAIR S1
1/4" = 1'-0"



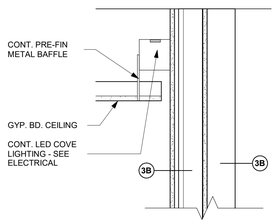
6 A411 SECTION - STAIR S1
1/4" = 1'-0"

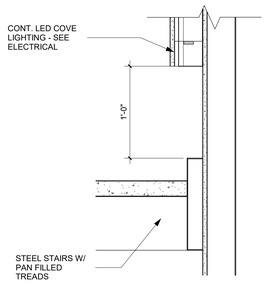


ELEVATOR
E2

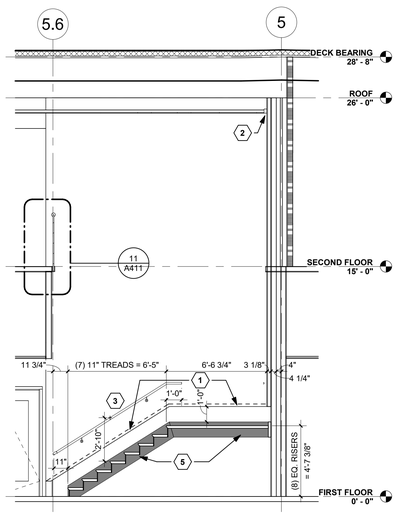


10 A411 SECTION DETAIL - LED COVE
1 1/2" = 1'-0"

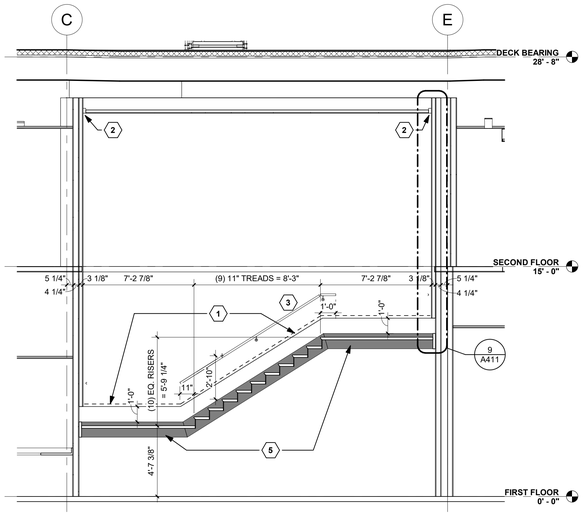




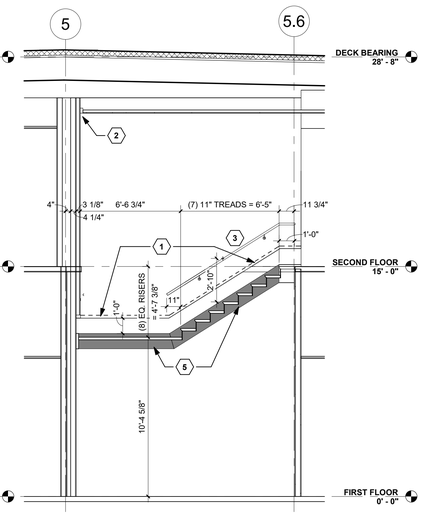
9 A411 SECTION DETAIL - LED COVE
1 1/2" = 1'-0"



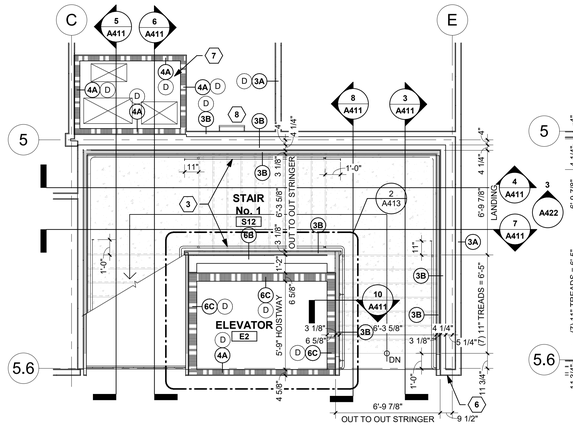
5 A411 SECTION - STAIR S1
1/4" = 1'-0"



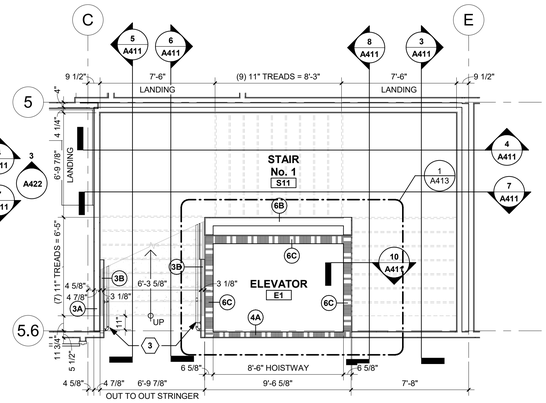
4 A411 SECTION - STAIR S1
1/4" = 1'-0"



3 A411 SECTION - STAIR S1
1/4" = 1'-0"



2 A413 ENLARGED FLOOR PLAN - STAIR S12
1/4" = 1'-0"



1 A411 ENLARGED FLOOR PLAN - STAIR S11
1/4" = 1'-0"

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REVISIONS

#	DATE	DESCRIPTION
	01-09-26	80% PROGRESS

PROJECT #: 25109

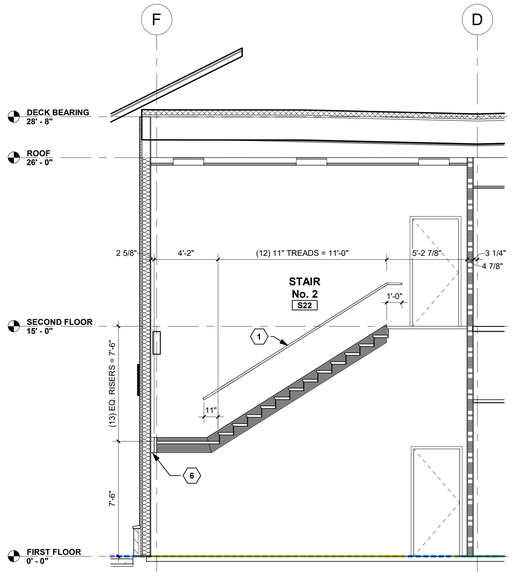
DRAWN: TDS **CHECKED:** RNH

ENLARGED STAIR PLANS & SECTIONS

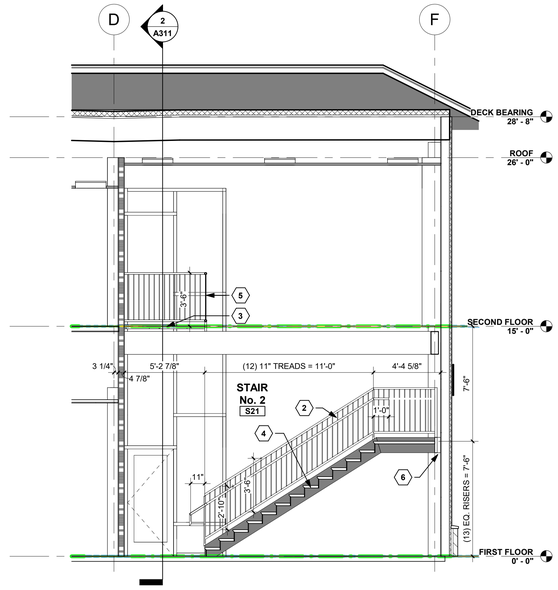
A411

KEY NOTES

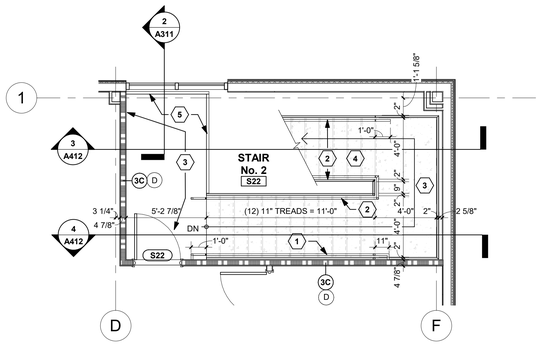
1. PAINTED STEEL HANDRAILING AND BRACKET. RETURN EXTENSIONS TO WALL.
2. PAINTED STEEL GUARDRAILING AND HANDRAILING.
3. CONCRETE FILLED, PAINTED STEEL LANDING BY STAIR FABRICATOR.
4. STEEL STAIRS W/ CONC. FILLED PANS W/ NORAMENT ARAGO STAIRTREAD FINISH ON TREADS AND LANDING. ALL EXPOSED STEEL STRINGERS TO BE PAINTED.
5. PAINTED STEEL GUARDRAILING.
6. PROVIDE PAINTED STEEL PLATE TO CLOSE OFF 2 1/2" SPACE BETWEEN CHANNEL AND WALL.



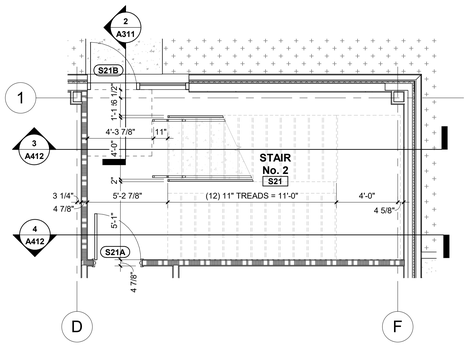
4 A412 SECTION - STAIR S2
1/4" = 1'-0"



3 A412 SECTION - STAIR S2
1/4" = 1'-0"



2 A412 ENLARGED FLOOR PLAN - STAIR S22
1/4" = 1'-0"



1 A412 ENLARGED FLOOR PLAN - STAIR S21
1/4" = 1'-0"

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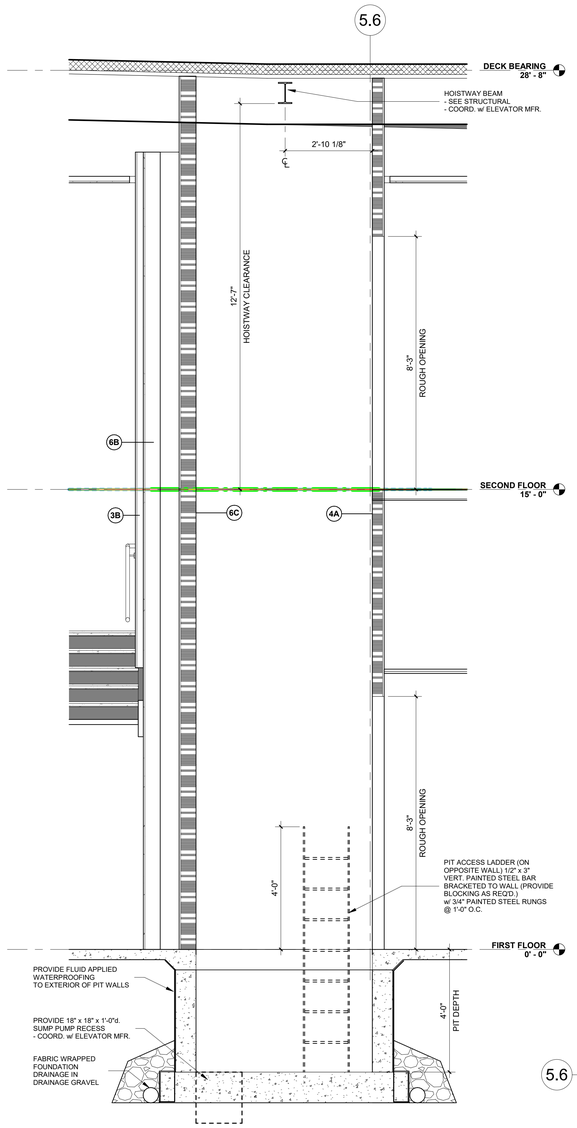
	01-09-26	80% PROGRESS

PROJECT #: 25109

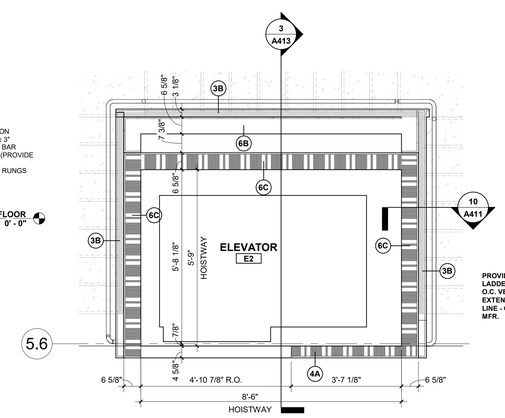
DRAWN: TDS **CHECKED:** RNH

ENLARGED STAIR PLANS & SECTIONS

A412

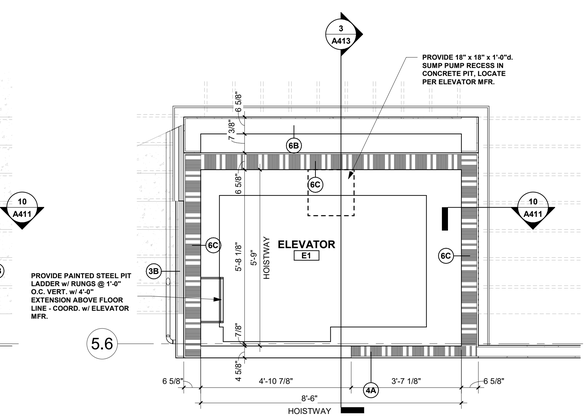


3 A413 SECTION - ELEVATOR
1/2" = 1'-0"



2 A413 ENLARGED FLOOR PLAN - SECOND FLOOR ELEVATOR
1/2" = 1'-0"

LEAVE ENTIRE FRONT WALL OF ELEVATOR SHAFT OPEN FOR ELEVATOR DOOR/MACHINE INSTALLATION - COORD. INFILL W/ ELEVATOR CONTRACTOR



1 A413 ENLARGED FLOOR PLAN - FIRST FLOOR ELEVATOR
1/2" = 1'-0"

LEAVE ENTIRE FRONT WALL OF ELEVATOR SHAFT OPEN FOR ELEVATOR DOOR/MACHINE INSTALLATION - COORD. INFILL W/ ELEVATOR CONTRACTOR

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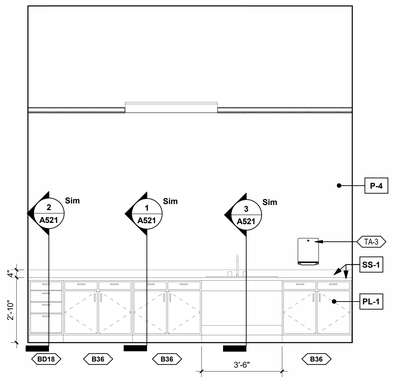
	01-09-26	80% PROGRESS

PROJECT #: 25109

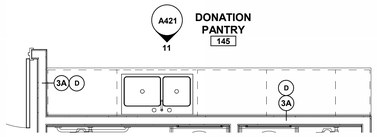
DRAWN: TDS **CHECKED:** RNH

ENLARGED ELEVATOR PLANS & SECTIONS

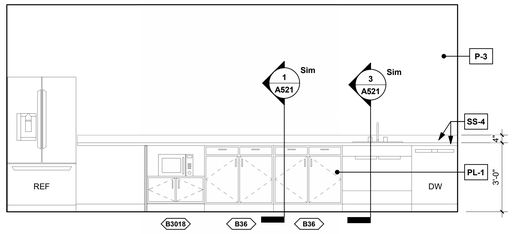
A413



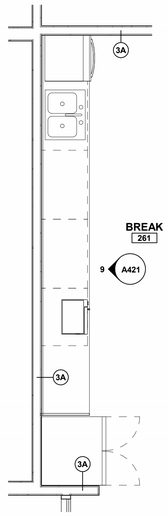
11 A421 INTERIOR ELEVATION - DONATION PANTRY #145
3/8" = 1'-0"



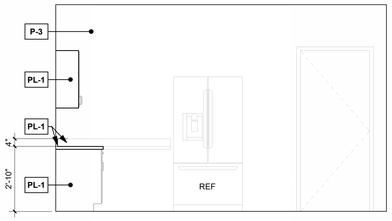
10 A421 ENLARGED FLOOR PLAN - DONATION PANTRY #145
3/8" = 1'-0"



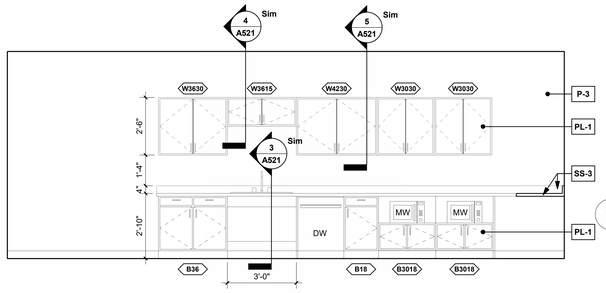
9 A421 INTERIOR ELEVATION - BREAK #261
3/8" = 1'-0"



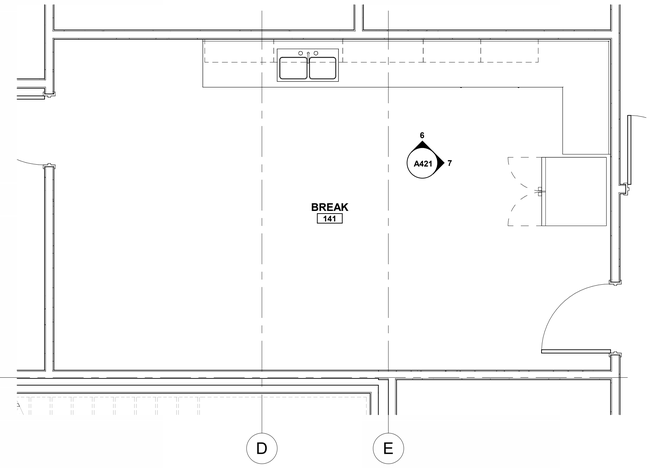
8 A421 ENLARGED FLOOR PLAN - BREAK #261
3/8" = 1'-0"



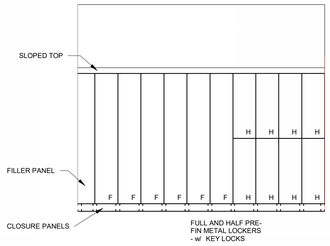
7 A421 INTERIOR ELEVATION - BREAK #141
3/8" = 1'-0"



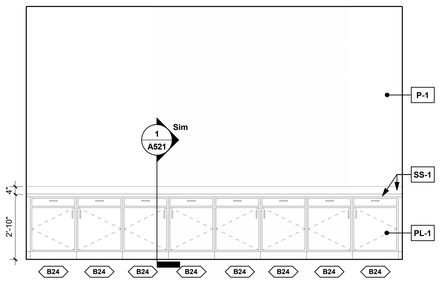
6 A421 INTERIOR ELEVATION - BREAK #141
3/8" = 1'-0"



5 A421 ENALRGED FLOOR PLAN - BREAK #141
3/8" = 1'-0"

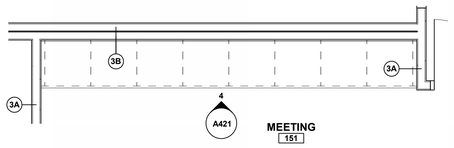


12 A421 INTERIOR ELEVATION - LOCKERS #140
3/8" = 1'-0"

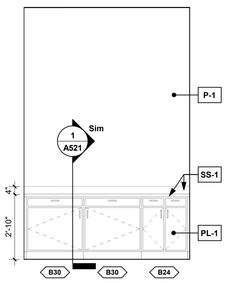


4 A421 INTERIOR ELEVATION - MEETING #151
3/8" = 1'-0"

PROVIDE FILLER PANELS EA.
SIDE AS REQUIRED

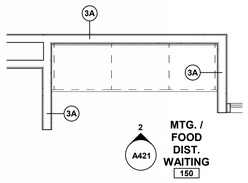


3 A421 ENLARGED FLOOR PLAN - MEETING #151
3/8" = 1'-0"



2 A421 INT. ELEV. - MTG. / DIST. WAITING #150
3/8" = 1'-0"

PROVIDE FILLER PANELS EA.
SIDE AS REQUIRED



1 A421 ENLARGED FLOOR PLAN - MTG. / DIST. WAITING #150
3/8" = 1'-0"

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REVISIONS

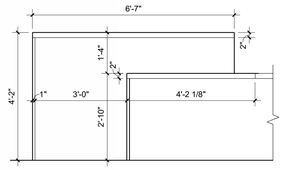
#	DATE	DESCRIPTION
	01-09-26	80% PROGRESS

PROJECT #: 25109

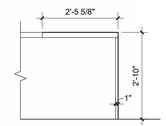
DRAWN: TDS **CHECKED:** RNH

ENLARGED PLANS ELEVATIONS

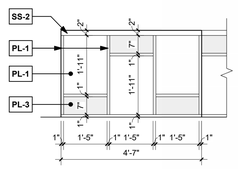
A421



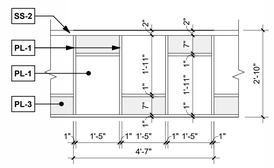
15 A422 INT. ELEV. - RECEPTION DESK - LOBBY #101
1/2" = 1'-0"



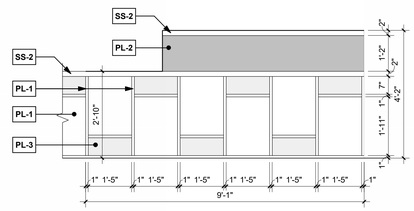
14 A422 INT. ELEV. - RECEPTION DESK - LOBBY #101
1/2" = 1'-0"



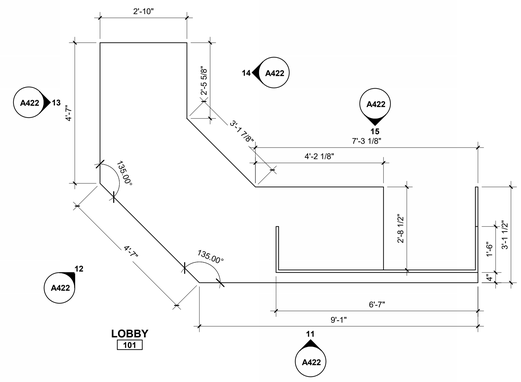
13 A422 INT. ELEV. RECEPTION DESK - LOBBY #101
1/2" = 1'-0"



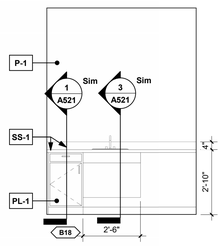
12 A422 INT. ELEV. - RECEPTION DESK - LOBBY #101
1/2" = 1'-0"



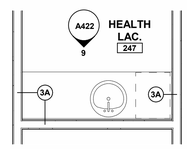
11 A422 INTERIOR ELEVATION - RECEPTION DESK - LOBBY #101
1/2" = 1'-0"



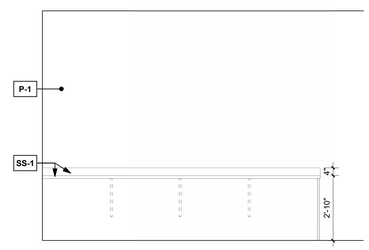
10 A422 ENLARGED PLAN - RECEPTION DESK - LOBBY #101
1/2" = 1'-0"



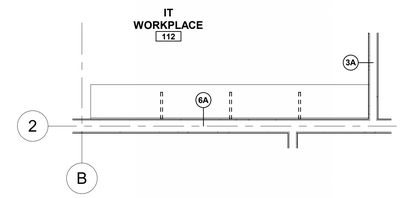
9 A422 INT. ELEV. - HEALTH LACTATION #247
3/8" = 1'-0"



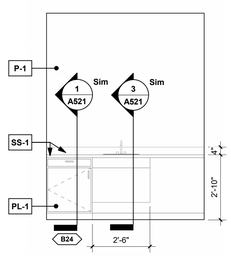
8 A422 ENLARGED PLAN - HEALTH LACTATION #247
3/8" = 1'-0"



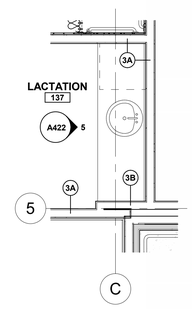
7 A422 INTERIOR ELEVATION - IT WORKPLACE #112
3/8" = 1'-0"



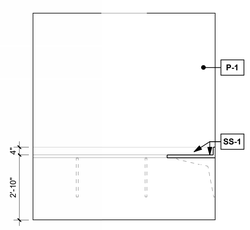
6 A422 ENLARGED FLOOR PLAN - IT WORKPLACE #112
3/8" = 1'-0"



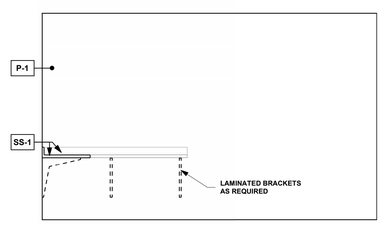
5 A422 INT. ELEV. - LACTATION #137
3/8" = 1'-0"



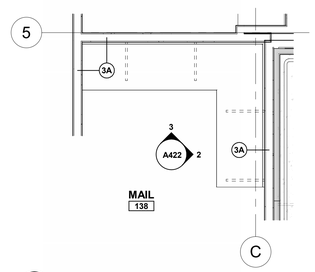
4 A422 ENLARGED PLAN - LACTATION #137
3/8" = 1'-0"



3 A422 INTERIOR ELEVATION - MAIL #138
3/8" = 1'-0"



2 A422 INTERIOR ELEVATION - MAIL #138
3/8" = 1'-0"



1 A422 ENLARGED PLAN - MAIL #138
3/8" = 1'-0"

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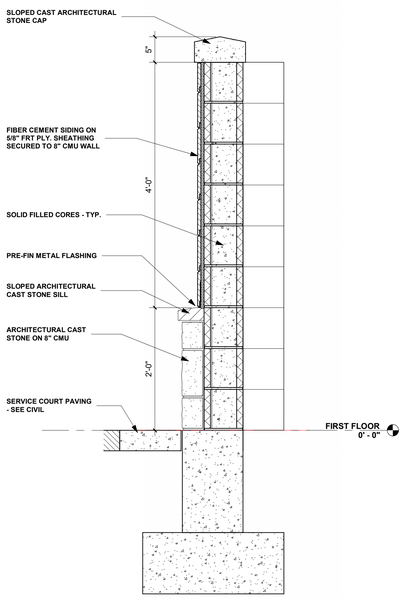
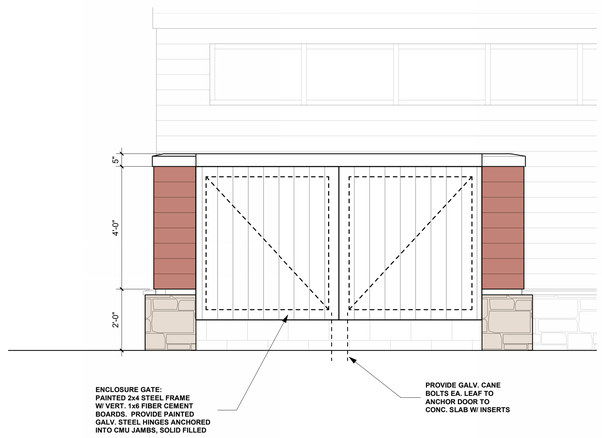
ENLARGED PLANS ELEVATIONS

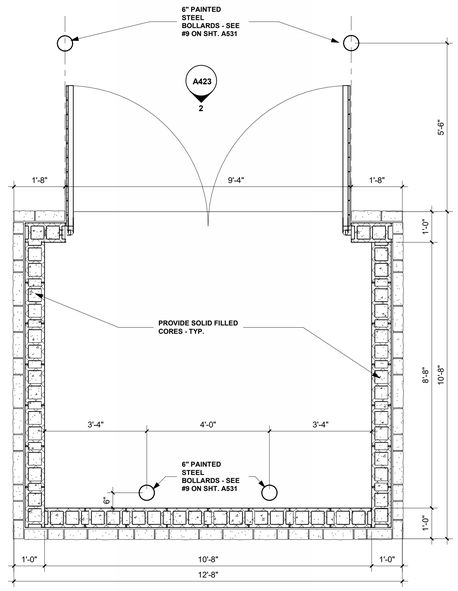
A422



3 A423 Section 23
1" = 1'-0"



2 A423 17 - a
1/2" = 1'-0"



1 A423 FIRST FLOOR PLAN - Callout 17
1/2" = 1'-0"

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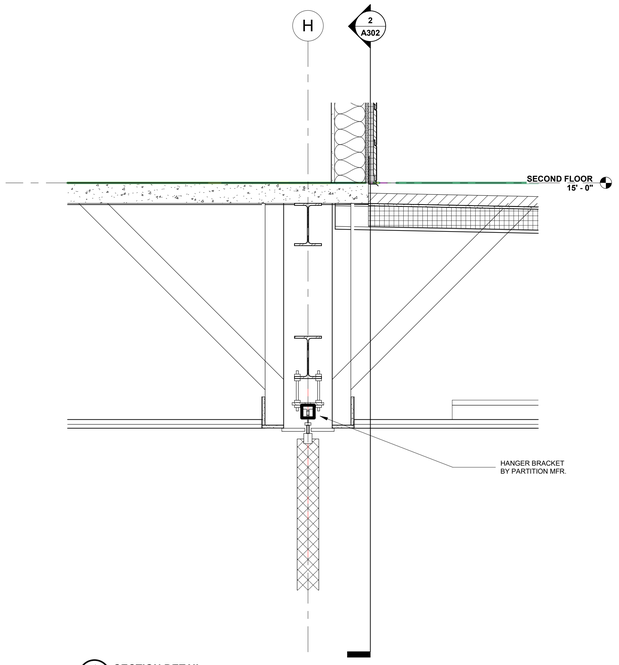
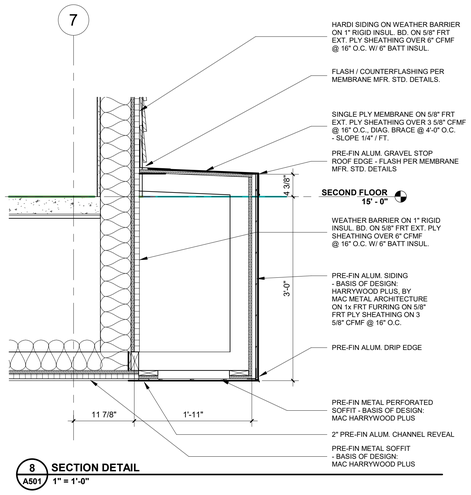
ENLARGED PLANS ELEVATIONS

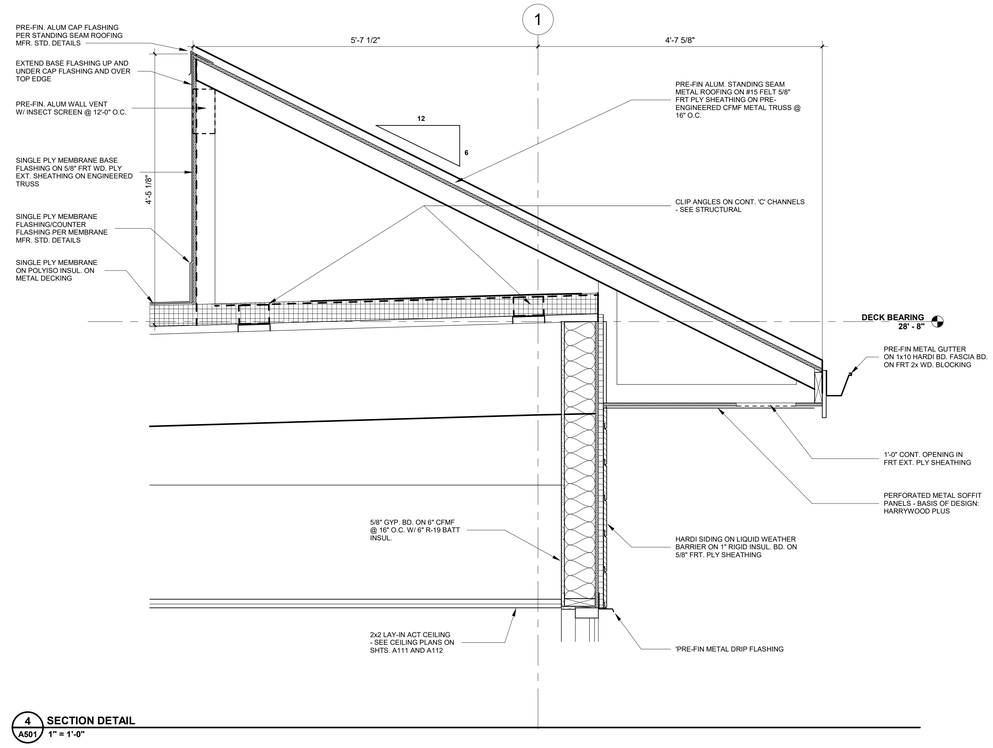
A423



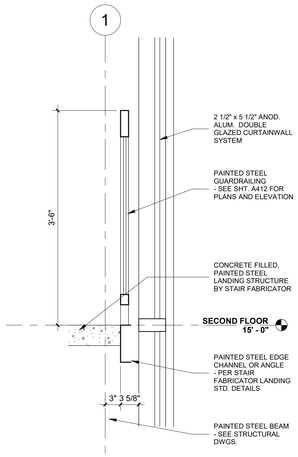
1 A501 SECTION DETAIL
1" = 1'-0"



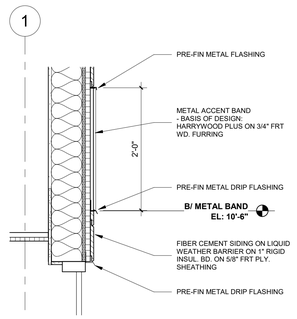
8 A501 SECTION DETAIL
1" = 1'-0"



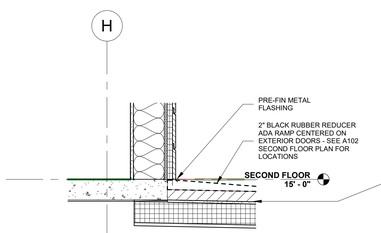
4 A501 SECTION DETAIL
1" = 1'-0"



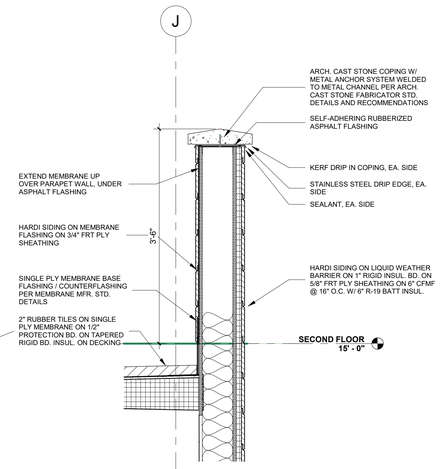
5 A501 SECTION DETAIL
1" = 1'-0"



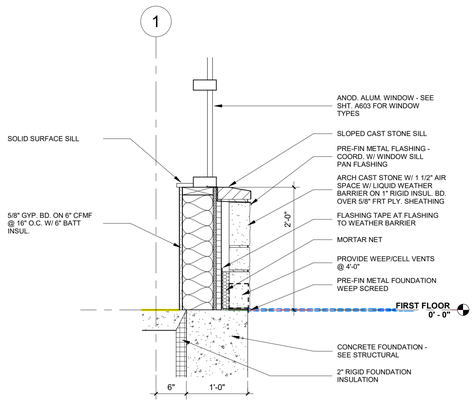
3 A501 SECTION DETAIL
1" = 1'-0"



7 A501 SECTION DETAIL
1" = 1'-0"



6 A501 SECTION DETAIL
1" = 1'-0"



2 A501 SECTION DETAIL
1" = 1'-0"

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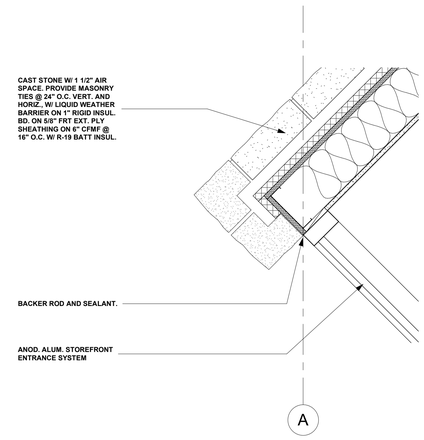
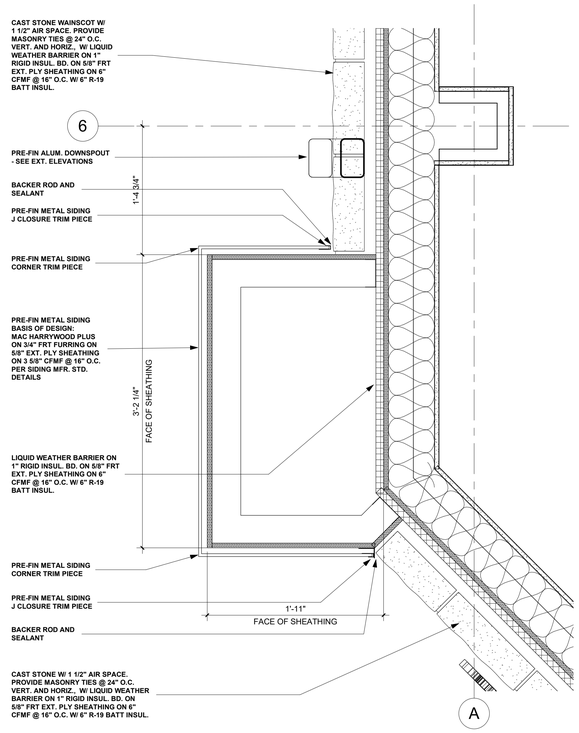
DRAWN: TDS **CHECKED:** RNH

SECTION DETAILS

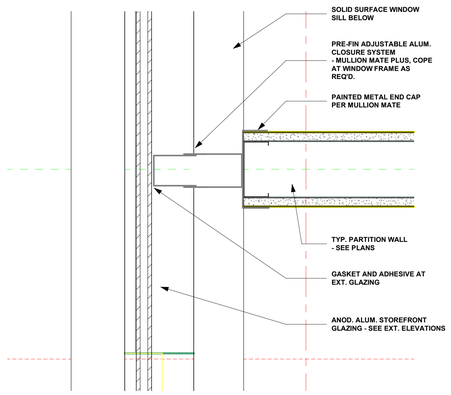
A501



4 A502 **PLAN DETAIL**
1 1/2" = 1'-0"

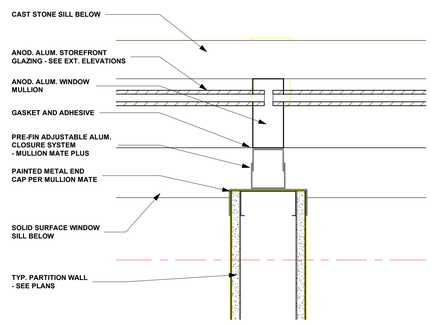


1 A502 **PLAN DETAIL**
1 1/2" = 1'-0"



CLOSURE OF WALL TO EXTERIOR GLAZING SYSTEM - BASIS OF DESIGN: MULLION MATE - GORDON

3 A502 **PLAN DETAIL**
3" = 1'-0"



CLOSURE OF WALL TO EXTERIOR GLAZING SYSTEM - BASIS OF DESIGN: MULLION MATE - GORDON

2 A502 **PLAN DETAIL**
3" = 1'-0"

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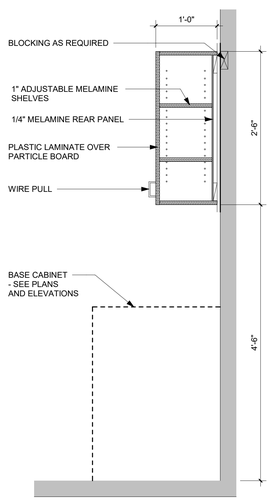
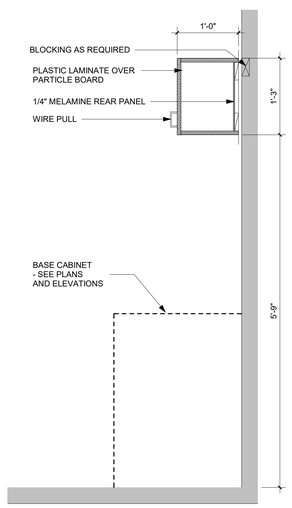
PLAN DETAILS

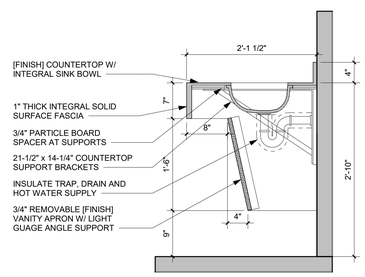
A502



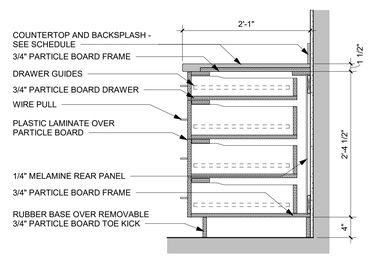
5 A521 CASEWORK - 30" WALL CABINET
1" = 1'-0"



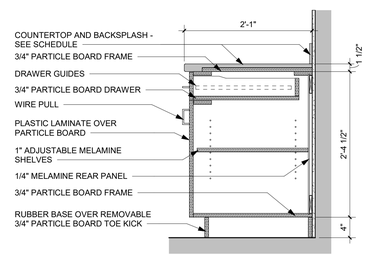
4 A521 CASEWORK - 15" WALL CABINET
1" = 1'-0"



3 A521 CASEWORK - INTEGRAL WALL SINK CABINET
1" = 1'-0"



2 A521 CASEWORK - 4 DRAWER BASE CABINET
1" = 1'-0"



1 A521 CASEWORK - BASE CABINET
1" = 1'-0"

ATA ARCHITECTS
1063 Central Avenue Cincinnati Ohio, 45202
p: 513-241-4422 f: 513-241-5560 www.ATA-B.com

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SANTA MARIA COMMUNITY SERVICES

1048 CONSIDINE AVE.
CINCINNATI, OHIO 45205

CERTIFICATION

STATE OF OHIO
ROBERT N. HUMASON
14056
REGISTERED ARCHITECT

REVISIONS

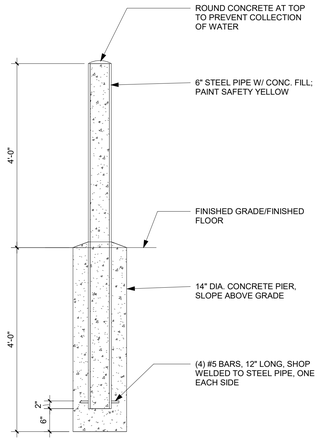
#	DATE	DESCRIPTION
	01-09-26	80% PROGRESS

PROJECT #: 25109

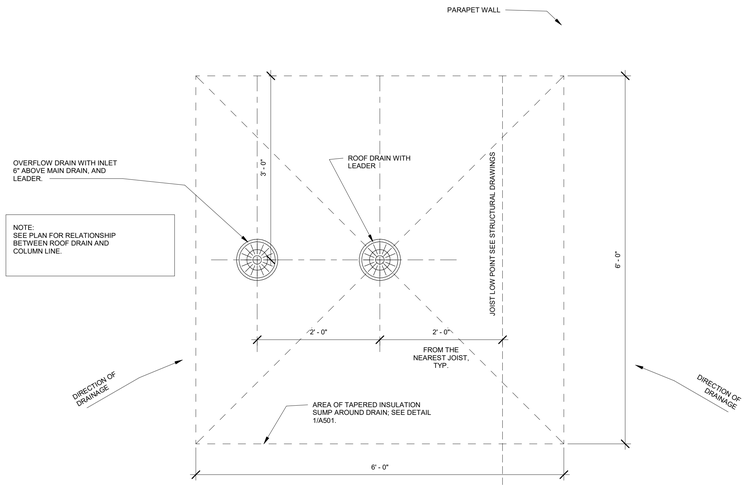
DRAWN: TDS **CHECKED:** RNH

CASEWORK DETAILS

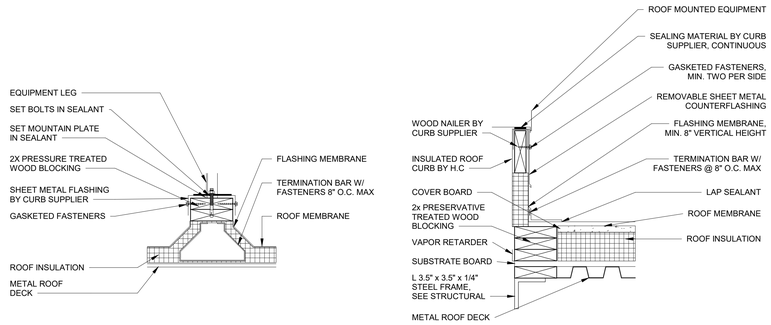
A521



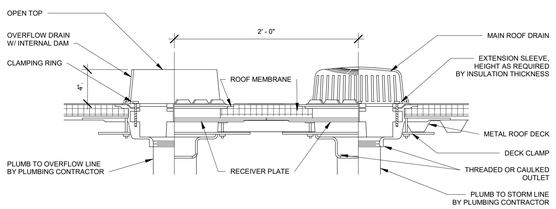
9 / A531 GENERAL DETAIL - BOLLARD DETAIL
3/4" = 1'-0"



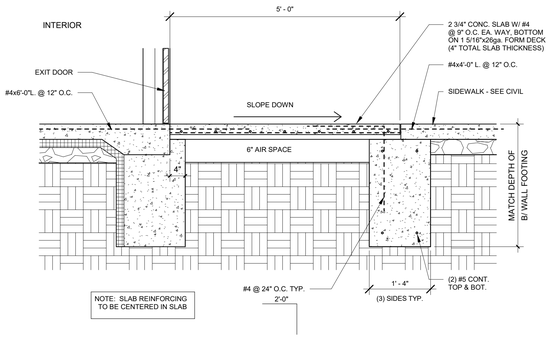
8 / A531 ROOF DRAIN / OVERFLOW LAYOUT
1" = 1'-0"



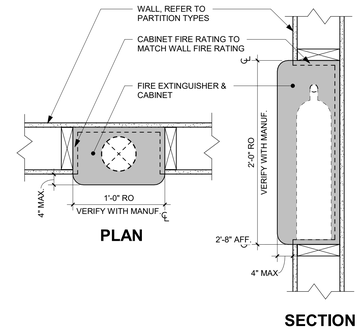
7 / A531 EQUIPMENT SUPPORT
1 1/2" = 1'-0"



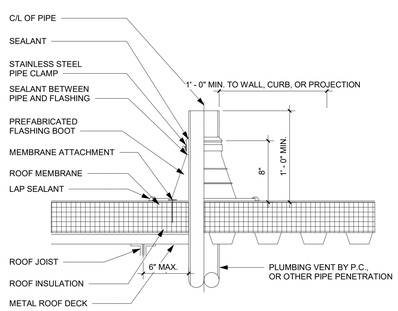
6 / A531 ROOF DRAIN / OVERFLOW DRAIN
1 1/2" = 1'-0"



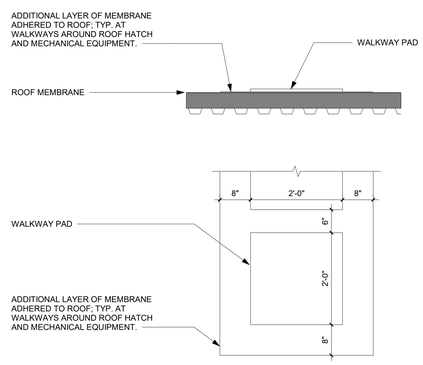
5 / A531 SECTION DETAIL - FROST SLAB
3/4" = 1'-0"



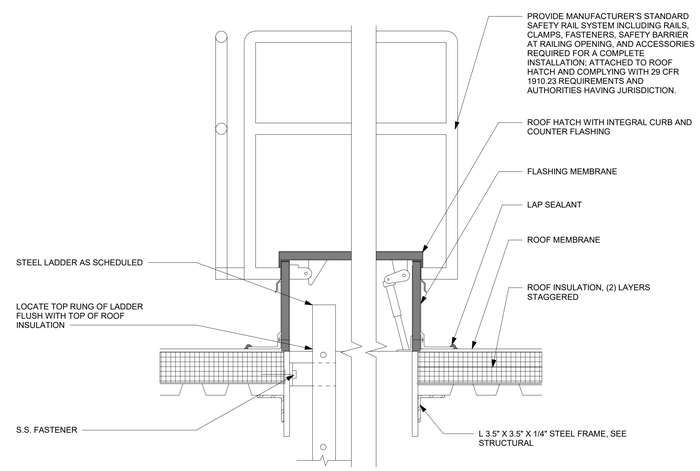
4 / A531 GENERAL DETAIL -FIRE EXTINGUISHER DETAIL
1 1/2" = 1'-0"



3 / A531 ROOF - PENETRATION DETAIL
1 1/2" = 1'-0"



2 / A531 ROOF - WALKWAY DETAIL
3/4" = 1'-0"



1 / A531 ROOF - ACCESS HATCH DETAIL
1 1/2" = 1'-0"

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14056
REGISTERED ARCHITECT

REVISIONS

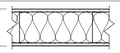
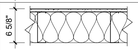
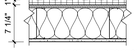
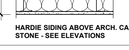
#	DATE	DESCRIPTION
	01-09-26	80% PROGRESS

PROJECT #: 25109

DRAWN: TDS **CHECKED:** RNH

DETAILS

A531

	TYPE	RATING / UL #	CONSTRUCTION	DESCRIPTION
INTERIOR PARTITIONS	3A	N/A	4 7/8"	3 5/8" METAL STUDS @ 16" O.C 5/8" TYPE 'X' GYPSUM BOARD BATT INSUL. SOUND ATTENUATION WHERE INDICATED IN SCHEDULE STC = 45-50
INTERIOR PARTITIONS	3B	N/A	4 1/4"	3 5/8" METAL STUDS @ 16" O.C 5/8" TYPE 'X' GYPSUM BOARD BATT INSUL. SOUND ATTENUATION WHERE INDICATED IN SCHEDULE STC = 45-50
INTERIOR PARTITIONS	4A	(1) HR UL #415	4 5/8" 	1" GYPSUM BOARD SHAFTWALL LINER PANEL 4" METAL CH STUDS @ 24" O.C. 5/8" TYPE 'X' GYPSUM BOARD
INTERIOR PARTITIONS	6A	N/A	7 1/4" 	5/8" TYPE 'X' GYPSUM BOARD ON EA. SIDE 6" METAL STUDS @ 16" O.C. BATT INSUL. SOUND ATTENUATION WHERE INDICATED IN SCHEDULE
INTERIOR PARTITIONS	6B	N/A	6 5/8"	5/8" TYPE 'X' GYPSUM BOARD ON ONE SIDE 6" METAL STUDS BATT INSUL. SOUND ATTENUATION WHERE INDICATED IN SCHEDULE
INTERIOR PARTITIONS	6C	(1) HR UL #415	6 5/8"	1" GYPSUM BOARD SHAFTWALL LINER PANEL 6" METAL CH STUDS @ 24" O.C. 5/8" TYPE 'X' GYPSUM BOARD
EXTERIOR PARTITIONS	6D	N/A	1" 3 3/4" 1 1/2" 7 1/4"  **ARCH. CAST STONE UP TO STONE SILL OR FULL HT. - SEE ELEVATIONS** 1" 7 1/4"  **HARDIE SIDING ABOVE ARCH. CAST STONE - SEE ELEVATIONS**	ARCHITECTURAL CAST STONE 1 1/2" AIR SPACE LIQUID WEATHER BARRIER 1" RIGID INSULATION BOARD 5/8" FRT EXT. PLY SHEATHING 6" METAL STUDS @ 16" O.C. W/ 6" R-19 BATT INSUL. 5/8" TYPE 'X' GYPSUM BOARD HARDIE SIDING LIQUID WEATHER BARRIER 1" RIGID INSULATION BOARD 5/8" FRT EXT. PLY SHEATHING 6" METAL STUDS @ 16" O.C. W/ 6" R-19 BATT INSUL. 5/8" TYPE 'X' GYPSUM BOARD

GENERAL WALL TYPE NOTES:

A. NON-RATED WALL ASSEMBLIES SHALL NOT INTERRUPT ANY RATED WALL OR CEILING ASSEMBLIES.
B. SEE WALL SECTIONS WHERE APPLICABLE FOR ADDITIONAL INFORMATION REGARDING WALL CONSTRUCTION.
C. THERMAL AND SOUND INSULATION MATERIALS INCLUDING VAPOR RETARDATION WHEN USED SHALL HAVE A FLAME SPREAD INDEX NOT MORE THAN 25 AND A SMOKE DEVELOPED INDEX NOT MORE THAN 450.
D. PROVIDE GYPSUM CONTROL JOINTS AS INDICATED OR AT 25'-0" SPACING; VERTICALLY AND HORIZONTALLY. COORD. W/ ARCHITECT.
E. SEE ROOM FINISH SCHEDULE FOR THE ROOMS THAT REQUIRE SOUND ATTENUATION IN INTERIOR WALLS.
F. EXTEND WALL GYP. BD./FINISH MIN. 6" ABOVE HIGHEST ADJACENT CEILING.

WALL TYPE MODIFIERS:

NOTE: WHEN A WALL TYPE MODIFIER IS ADD TO A BASE WALL TYPE, THE PROPERTIES OF THE MODIFIER TAKE PRECEDENCE OVER THE BASE WALL TYPE CONDITIONS.

(D) —— EXTEND PARTITION TIGHT TO RATED CEILING OR ROOF DECK

FIRE RATED ASSEMBLIES: REFER TO THE INDICATED UL DESIGN # IN THE UNDERWRITERS LABORATORIES INC. FIRE RESISTANCE DIRECTORY VOL. 1 & VOL. FOR CONDITIONS REQUIRED TO ACHIEVE THE RATING SPECIFIED (ATTACHMENT MEMBERS, SPACING, ORIENTATION, ETC.) IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO ENSURE THAT THE REQUIREMENTS ARE ADHERED TO.

ROOM FINISH SCHEDULE

ROOM NUM	ROOM NAME	FLOOR MATL	BASE MATL	WALLS N MATL	WALLS E MATL	WALLS S MATL	WALLS W MATL	CLG. MATL	CLG. HT.	NOTES
100	VESTIBULE	WO-1		P-2	P-2	P-2	P-2		12'-0"	
101	LOBBY	LVT-1	B-1	P-2	P-2	P-2	P-2	ACT-1		7
102	INTAKE	CPT-2	B-4		P-1	P-1	P-1	ACT-1	10'-0"	
103	PROGRAM COPY	LVT-1	B-2	P-2	P-2	P-2	P-2	ACT-1	10'-0"	
104	STABLE FAM.	CPT-1	B-4	P-1	P-6	P-1	P-1	ACT-1	10'-0"	
105	STABLE FAM.	CPT-1	B-4	P-1	P-5	P-1	P-1	ACT-1	10'-0"	
106	STABLE FAM.	CPT-1	B-4	P-1	P-4	P-1	P-1	ACT-1	10'-0"	
107	STABLE FAM.	CPT-1	B-4	P-1	P-5	P-1	P-1	ACT-1	10'-0"	
108	WELLNESS	CPT-1	B-4	P-1	P-6	P-1	P-1	ACT-1	10'-0"	
109	WELLNESS	CPT-1	B-4	P-1	P-4	P-1	P-1	ACT-1	10'-0"	
110	WELLNESS	CPT-1	B-4	P-1	P-5	P-5	P-1	ACT-1	10'-0"	
111	CORR.	LVT-1	B-1	P-2	P-2	P-2	P-2	ACT-1	9'-0"	
112	IT WORKPLACE	LVT-1	B-1	P-1	P-1	P-1	P-1	ACT-1	10'-0"	
113	FIN. SECURE STORAGE	LVT-1	B-2	P-1	P-1	P-1	P-1	ACT-2	11'-0"	
114	SECURE STORAGE	LVT-1	B-2	P-1	P-1	P-1	P-1	ACT-2	11'-0"	
115	IT STORAGE	LVT-1	B-2	P-1	P-1	P-1	P-1	ACT-1	11'-0"	
116	SERVER	LVT-1	B-2	P-1	P-1	P-1	P-1	ACT-1	9'-0"	
117	MECH. / ELEC.	SC-1	B-4	P-1	P-1	P-1	P-1	ACT-1		
118	CORR.	LVT-1	B-1	P-2	P-2	P-2	P-2	ACT-1	9'-0"	
119	LOADING DOCK	SC-1	B-4	P-1	P-1	P-1	P-1	ACT-1		
120	CORRIDOR	LVT-1	B-1	P-2	P-2	P-2	P-2	ACT-1	9'-0"	
121	ADA UNISEX	CT-1	B-5	P-1	P-1	CWT-1	P-1	ACT-1	8'-0"	5, 6
122	UNISEX	CT-1	B-5	P-1	P-1	CWT-2	P-1	ACT-1	8'-0"	5, 6
123	ADA UNISEX	CT-1	B-5	P-1	P-1	CWT-1	P-1	ACT-1	8'-0"	5, 6
124	JAN.	LVT-1	B-2	P-1	P-1	P-1	P-1	ACT-1	8'-0"	
125	CLOSET	LVT-1	B-2	P-1	P-1	P-1	P-1	ACT-1	8'-0"	
126	STABLE FAM.	CPT-1	B-4	P-1	P-1	P-1	P-5	ACT-1	9'-0"	
127	VOLUNTEER COORD.	CPT-2	B-4	P-1	P-4	P-1	P-1	ACT-1	9'-0"	
128	ADA UNISEX	CT-1	B-5	CWT-2	P-1	P-1	P-1	ACT-1	8'-0"	5, 6
129	UNISEX	CT-1	B-5	CWT-1	P-1	P-1	P-1	ACT-1	8'-0"	5, 6
130	UNISEX	CT-1	B-5	CWT-2	P-1	P-1	P-1	ACT-1	8'-0"	5, 6
131	UNISEX	CT-1	B-5	CWT-1	P-1	P-1	P-1	ACT-1	8'-0"	5, 6
132	LAUNDRY	LVT-1	B-2	P-1	P-1	P-1	P-1	ACT-1	8'-0"	
133	CORR.	LVT-1	B-1	P-2	P-2	P-2	P-2	ACT-1	9'-0"	
134	CLOTHES PANTRY	LVT-1	B-2	P-1	P-4	P-1	P-1	ACT-1	9'-0"	
135	ADA SHOWER	CT-1	B-5	CWT-2	P-1	P-1	P-1	ACT-1 / GB-1		5, 6, 7
136	STORAGE	LVT-2	B-3	P-3	P-3	P-3	P-3	ACT-1	9'-0"	
137	LAC/TATION	LVT-1	B-2	P-1	P-1	P-1	P-1	ACT-1	9'-0"	
138	MAIL	LVT-1	B-2	P-1	P-1	P-1	P-1	ACT-1	9'-0"	
139	INTERNVOL. STATIONS	CPT-1	B-4	P-2	P-2	P-2	P-5	ACT-1	9'-0"	
140	LOCKERS	LVT-1	B-2	P-1	P-1	P-1	P-1	ACT-1	9'-0"	
141	BREAK	LVT-2	B-3	P-3	P-3	P-3	P-3	ACT-1	9'-0"	
142	TABLE STOR.	LVT-1	B-2	P-1	P-1	P-1	P-1	ACT-2	11'-0"	
143	CORR.	LVT-1	B-1	P-2	P-2	P-2	P-2	ACT-1	9'-0"	
144	CORR.	LVT-1	B-1	P-2	P-2	P-2	P-2	ACT-1	9'-0"	
145	DONATION PANTRY	SC-1	B-4	P-1	P-1	P-1	P-4			4, 8
146	SUPPLY/DIAPER STOR.	SC-1	B-4	P-1	P-1	P-1	P-4	ACT-1	9'-0"	
147	ADA UNISEX	CT-1	B-5	P-1	CWT-1	P-1	P-1	ACT-1	8'-0"	5, 6
148	UNISEX	CT-1	B-5	P-1	CWT-2	P-1	P-1	ACT-1	8'-0"	5, 6
149	CORR.	LVT-1	B-1	P-2	P-2	P-2	P-2	ACT-1	9'-0"	
150	MTG. / FOOD DIST. WAITING	CPT-2 / CPT-3 / CPT-4	B-4	P-1	P-1	P-1	P-1	ACT-1	11'-0"	
151	MEETING	CPT-2 / CPT-3 / CPT-4	B-4	P-1	P-1	P-1	P-1	ACT-1	11'-0"	
152	CORR.	LVT-1	B-1	P-2	P-2	P-2	P-2	GB-1	10'-0"	
153	HOTEL	CPT-1	B-4	P-1	P-1	P-1	P-1	ACT-1	9'-0"	
154	HOTEL	CPT-1	B-4	P-1	P-1	P-1	P-1	ACT-1	9'-0"	
155	CHILD ADA UNISEX	CT-1	B-5	CWT-1	P-1	P-1	P-1	ACT-1	8'-0"	5, 6
156	INTAKE	CPT-2	B-4	P-1	P-5	P-1	P-1	ACT-1	9'-0"	
157	FAMILY INTAKE / PLAYROOM	CPT-4	B-4	P-1	P-6	P-1	P-1	ACT-1	10'-0"	
E1	ELEVATOR	LVT-1								
S11	STAIR No. 1	ST-1								
S21	STAIR No. 2	ST-1								
200	CORR.	LVT-1	B-1	P-2	P-2	P-2	P-2	ACT-1	9'-0"	
201	WAITING	LVT-1 / CPT-5	B-4	P-2	P-2	P-2	P-2	ACT-1	---	7
202	CORR.	LVT-1	B-1	P-2	P-2	P-2	P-2	ACT-1		
203	CEO	CPT-1	B-4	P-1	P-1	P-5	P-1	ACT-1	9'-0"	
204	CPO	CPT-1	B-4	P-1	P-1	P-4	P-1	ACT-1	9'-0"	
205	CFO	CPT-1	B-4	P-1	P-1	P-1	P-6	ACT-1	9'-0"	
206	FINANCE	CPT-1	B-4	P-1	P-1	P-1	P-5	ACT-1	9'-0"	
207	FINANCE	CPT-1	B-4	P-1	P-4	P-1	P-1	ACT-1	9'-0"	
208	EXTERIOR DECK							ACT-1		
209	ALCOVE	LVT-1	B-1	P-2	P-2	P-2	P-2	ACT-1		
210	FINANCE	CPT-1	B-4	P-1	P-6	P-1	P-1	ACT-1	9'-0"	
211	HR OFFICE	CPT-1	B-4	P-5	P-1	P-1	P-1	ACT-1	9'-0"	
212	CORR.	LVT-1	B-1	P-2	P-2	P-2	P-2	ACT-1	9'-0"	
213	FIN. SECURE STOR.	CPT-1	B-4	P-1	P-1	P-1	P-1	ACT-1	9'-0"	
214	ADMIN. COPY	LVT-1	B-2	P-2	P-5	P-2	P-5	ACT-2	9'-0"	
215	CORR.	LVT-1	B-1	P-2	P-2	P-2	P-2	ACT-1	9'-0"	
216	DEV. TEAM	CPT-1	B-4	P-6	P-1	P-1	P-1	ACT-1	9'-0"	
217	DEV. TEAM	CPT-1	B-4	P-4	P-1	P-1	P-1	ACT-1	9'-0"	
218	DEV. TEAM	CPT-1	B-4	P-6	P-1	P-1	P-1	ACT-1	9'-0"	
219	CHIEF DEV. OFFICER	CPT-1	B-4	P-1	P-4	P-1	P-1	ACT-1	9'-0"	
220	DEV. TEAM STORAGE	LVT-1	B-2	P-1	P-1	P-1	P-1	ACT-1	9'-0"	
221	GED TESTING COMPUTER LAB	CPT-2 / CPT-3 / CPT-4	B-4	P-1	P-1	P-1	P-1	ACT-1	9'-0"	
222	GED TRAINING CLASSROOM	CPT-2 / CPT-3 / CPT-4	B-4	P-1	P-1	P-1	P-1	ACT-1	9'-0"	
223	SMALL MEETING RM.	CPT-2 / CPT-3 / CPT-4	B-4	P-1	P-1	P-1	P-1	ACT-1	9'-0"	
224	STORAGE	LVT-1	B-2	P-1	P-1	P-1	P-1	ACT-2	9'-0"	
225	YOUTH EQUIV.	CPT-1	B-4	P-1	P-4	P-1	P-1	ACT-1	9'-0"	
226	YOUTH EQUIV.	CPT-1	B-4	P-1	P-6	P-1	P-1	ACT-1	9'-0"	
227	YOUTH EQUIV.	CPT-1	B-4	P-1	P-1	P-1	P-5	ACT-1	9'-0"	
228	YOUTH EQUIV.	CPT-1	B-4	P-1	P-4	P-1	P-1	ACT-1	9'-0"	
229	YOUTH EQUIV.	CPT-1	B-4	P-1	P-1	P-1	P-5	ACT-1	9'-0"	
230	YOUTH EQUIV.	CPT-1	B-4	P-1	P-6	P-1	P-1	ACT-1	9'-0"	
231	YOUTH EQUIV.	CPT-1	B-4	P-1	P-5	P-1	P-1	ACT-1	9'-0"	
232	YOUTH EQUIV.	CPT-1	B-4	P-1	P-4	P-1	P-1	ACT-1	9'-0"	
233	YOUTH EQUIV.	CPT-1	B-4	P-1	P-6	P-1	P-1	ACT-1	9'-0"	
234	YOUTH EQUIV.	CPT-1	B-4	P-1	P-1	P-1	P-4	ACT-1	9'-0"	
235	CORR.	LVT-1	B-1	P-2	P-2	P-2	P-2	ACT-1	9'-0"	
236	JAN.	LVT-1	B-2	P-1	P-1	P-1	P-1	ACT-1	8'-0"	
237	UNISEX	CT-1	B-5	P-1	P-1	CWT-1	P-1	ACT-1	8'-0"	5, 6
238	UNISEX	CT-1	B-5	P-1	P-1	CWT-2	P-1	ACT-1	8'-0"	5, 6
239	UNISEX	CT-1	B-5	P-1	P-1	CWT-1	P-1	ACT-1	8'-0"	5, 6
240	HOTEL	CPT-1	B-4	P-1	P-1	P-1	P-1	ACT-1	9'-0"	
241	ADA UNISEX	CT-1	B-5	CWT-2	P-1	P-1	P-1	ACT-1	8'-0"	5, 6
242	ADA UNISEX	CT-1	B-5	CWT-1	P-1	P-1	P-1	ACT-1	8'-0"	5, 6
243	ADA UNISEX	CT-1	B-5	CWT-2	P-1	P-1	P-1	ACT-1	8'-0"	5, 6
244	CORR.	LVT-1	B-1	P-2	P-2	P-2	P-2	ACT-1	9'-0"	
245	HOTEL	CPT-1	B-4	P-1	P-1	P-1	P-1	ACT-1	9'-0"	
246	HOTEL	CPT-1	B-4	P-1	P-1	P-1	P-1	ACT-1	9'-0"	
247	HEALTH LAC.	LVT-1	B-2	P-1	P-1	P-1	P-1	ACT-1	9'-0"	
248	SECURE STORAGE	LVT-1	B-2	P-1	P-1	P-1	P-1	ACT-2	9'-0"	
249	PROGRAM COPY	LVT-1	B-2	P-1	P-1	P-1	P-1	ACT-1	9'-0"	
250	CORR.	LVT-1	B-1	P-2	P-2	P-2	P-2	ACT-1	9'-0"	
251	EARLY CHILDHOOD WORKSTATIONS	CPT-1	B-4	P-5	P-1	P-1	P-1	ACT-1	9'-0"	
252	CORR.	LVT-1	B-1	P-2	P-2	P-2	P-2	ACT-1	9'-0"	
253	YOUTH EQUIV. ADMIN.	CPT-1	B-4	P-2	P-2	P-2	P-2	ACT-1	9'-0"	
254	EARLY CHILD	CPT-1	B-4	P-6	P-1	P-1	P-1	ACT-1	9'-0"	
255	EARLY CHILD	CPT-1	B-4	P-1	P-1	P-4	P-1	ACT-1	9'-0"	
256	EARLY CHILD	CPT-1	B-4	P-6	P-1	P-1	P-1	ACT-1	9'-0"	
257	EARLY CHILD ADMIN.	CPT-1	B-4	P-1	P-1	P-1	P-1	ACT-1	9'-0"	
258	MEETING	CPT-2 / CPT-3 / CPT-4	B-4	P-1	P-1	P-1	P-1	ACT-1	9'-0"	
259	MEETING	CPT-2 / CPT-3 / CPT-4	B-4	P-1	P-1	P-1	P-1	ACT-1	9'-0"	
260	ELEC.	SC-1	B-4	P-1	P-1	P-1	P-1	ACT-1	9'-0"	
261	BREAK	LVT-2	B-3	P-3	P-3	P-3	P-3	ACT-1	9'-0"	
262	ALCOVE	LVT-1	B-1	P-2	P-2	P-2	P-2	ACT-1	9'-0"	
E2	ELEVATOR									
S12	STAIR No. 1	ST-1						GB-1	10'-0"	
S22	STAIR No. 2	ST-1								3

MATERIAL SCHEDULE

TAG	MATL	MFR	DESCRIPTION	SKU STYLE COLOR	NOTES
01-CEILING					
ACT-1	ACOUSTIC CEILING TILE	ARMSTRONG	CALLA 15/16" SQUARE TEGULAR SMOOTH 2822	WHITE, 24" x 24"	
ACT-2	ACOUSTIC CEILING TILE	ARMSTRONG	CALLA 15/16" SQUARE TEGULAR SMOOTH 2823	WHITE, 24" x 48"	
GB	CEILING		GYPSUM BOARD CEILING	CEILING WHITE	
02-WALL					
CWT-1	CERAMIC WALL TILE	HAMILTON PARKER	SPLASH	ATLANTIS BLUE	3"X12" TOILET ROOM TILE WITH 3"X12" COVE BASE AND 3"X12" BULLNOSE, STACK BOND, GLOSSY
CWT-2	CERAMIC WALL TILE	HAMILTON PARKER	SPLASH	SEDONA SUNSET	3"X12" TOILET ROOM TILE WITH 3"X12" COVE BASE AND 3"X12" BULLNOSE, STACK BOND, GLOSSY
GR-1	GROUT	HYDROMENT	EPOXY GROUT	H152 WHITE	WALL TILE GROUT, BASIS OF DESIGN
P-1	PAINT	PPG		PPG1025-1 COMMERCIAL WHITE	FIELD PAINT
P-2	PAINT	PPG		PPG1102-1 ENDURING ICE	RECEPTION, CORRIDOR
P-3	PAINT	PPG		PPG1020-2 MAYBE MUSHROOM	BREAK ROOMS
P-4	PAINT	PPG		PPG1193-7 CINNAMON STONE	ACCENT WALL
P-5	PAINT	PPG		PPG 1192-6 SUMMER SUNSET	ACCENT WALL
P-6	PAINT	PPG		PPG 1165-7 VICTORY BLUE	ACCENT WALL
P-7	PAINT	PPG		TBD	ACCENT WALL
03-FLOOR					
CPT-1	CARPET	INTERFACE	OPEN AIR 402	106741 NICKEL	ASHLAR
CPT-2	CARPET	INTERFACE	OPEN AIR 403	106732 NICKEL	NON-DIRECTIONAL
CPT-3	CARPET	INTERFACE	OPEN AIR 403 TRANSITION	107116 NICKEL / COBALT	NON-DIRECTIONAL
CPT-4	CARPET	INTERFACE	OPEN AIR 403 ACCENT	107132 COBALT	NON-DIRECTIONAL
CPT-5	CARPET	INTERFACE	THIRD SPACE 301	107838 NAVY	MONOLITHIC
CT-1	CERAMIC TILE	CROSSVILLE	JAVA JOINT	TWO SUGARS	FLOOR APPLICATION, 12" x 24" FIELD TILE, VERTICAL ASHLAR, NO MORE THAN 1/3 OFFSET
GR-2	GROUT	TEC	CERAMIC TILE GROUT	908 DOVE GRAY	FLOOR TILE GROUT, BASIS OF DESIGN
LVT-1	LUXURY VINYL TILE	INTERFACE	NATURAL WOODGRAINS LEVEL SET	A00209 MAHOGANY	ASHLAR WITH HERRINGBONE JOINTS AT CORRIDOR INTERSECTIONS
LVT-2	LUXURY VINYL TILE	INTERFACE	STUDIO SET	A00713 SLATE	ASHLAR
SC-1	SEALED CONCRETE				ALTERNATE: POLISHED CONCRETE
ST-1	STAIR TREAD	NORA	NORAMENT ARAGO STAIRTREADS		STAIR TREADS AND MATCHING LANDING
WO-1	WALK OFF	INTERFACE	SRI899	104922 MIDNIGHT	MONOLITHIC
04-BASE					
B-1	VINYL PROFILE BASE	JOHNSONITE	MILLWORK PROFILE BASE DELINEATE	45 SANDALWOOD	LOBBY, CORRIDORS
B-2	VINYL COVE BASE	JOHNSONITE	1/4" COVE BASE	45 SANDALWOOD	PAIR TO LVT-1
B-3	VINYL COVE BASE	JOHNSONITE	1/4" COVE BASE	11 CANVAS	PAIR TO LVT-2
B-4	VINYL COVE BASE	JOHNSONITE	1/4" COVE BASE	TAS COLONIAL GREY	PAIR TO CPT, SC
B-5	CERAMIC WALL BASE	HAMILTON PARKER	SPLASH	WHITE CAP	5"X5" TILE WITH SCHLUTER COVE BASE AND SCHLUTER TRIM AT EXPOSED EDGES
05-CASEWORK					
PL-1	PLASTIC LAMINATE	WILSONART		MANGALORE MANGO 7984-38, FINE VELVET FINISH	RECEPTION DESK, CASEWORK
PL-2	PLASTIC LAMINATE	WILSONART		INDIGO D379-60, MATTE FINISH	RECEPTION DESK
PL-3	PLASTIC LAMINATE	WILSONART		DRAGON FIRE 13088-60, MATTE FINISH	RECEPTION DESK
PL-4	PLASTIC LAMINATE	WILSONART		WHITE OAK PB WHEATON 8282K-0, TIMBERGRAIN FINISH	RESTROOM CASEWORK
SS-1	SOLID SURFACE	CORIAN		SPARKLING GRANITA	INTERIOR WINDOW SILLS, COUNTERS
SS-2	SOLID SURFACE	CORIAN		DESIGNER WHITE	RECEPTION DESK COUNTER
SS-3	SOLID SURFACE	CORIAN		NEUTRAL CONCRETE	RESTROOM COUNTER
SS-4	SOLID SURFACE	CORIAN		SAVANNAH	BREAK ROOM COUNTER

GENERAL ROOM FINISH NOTES

A. ALL INTERIOR WALLS & CEILINGS TO COMPLY W/ OBC CHAPTER 8, SECTION 803.
B. ALL INTERIOR FLOOR FINISHES TO COMPLY W/ OBC CHAPTER 8, SECTION 804.
C. PROVIDE BLOCKING AT METAL STUD PARTITION WALLS AS REQUIRED FOR SUPPORT OF ALL WALL MOUNTED EQUIPMENT & ACCESSORIES. REFER TO INTERIOR ELEVATION SHEETS AND ENLARGED PLANS.
D. ALL INTERIOR FLOOR FINISHES IN MEANS OF EGRESS AREAS TO ADDITIONALLY COMPLY W/ IBC 1003.4 REQUIRING SURFACES TO BE SLIP-RESISTANT & BE SECURELY ATTACHED TO THE FLOOR SUBSTRATE.
E. ALL VERTICAL INSIDE CORNERS OF WALL TILE, WALL TO FLOOR TRANSITIONS AND WALL TO GYP. BD. CEILING TRANSITIONS SHALL RECEIVE SEALANT IN LIEU OF GROUT - MATCH ADJACENT GROUT COLOR.
F. ALL VERTICAL OUTSIDE CORNERS OF WALL TILE AND TOP OF WAINSCOT TILE TO RECEIVE SCHLUTER TRIM - JOLLY.
G. PROVIDE CLEAR SEALER ON ALL GROUT JOINTS.
H. ALL WALL TILE GROUT SHALL BE UNSANDED AND SHALL HAVE A MAX 1/8" WIDTH.
I. ALL FLOOR TILE GROUT SHALL BE SANDED AND MAX 3/16" WIDTH.
J. SEE CEILING PLANS ON SHEETS A111 AND A112 FOR CEILINGS WITH MULTIPLE HEIGHTS.
K. SEE REFERENCED ENLARGED FLOOR PLANS FOR ADDITIONAL DIMENSIONS, NOTES AND WALL TYPES.
L. HOLD GYPSUM BOARD/FRAMING TIGHT TO COLUMNS AND STORM RISER PIPING WHERE INDICATED, U.N.O.
M. PROVIDE MOISTURE RESISTANT GYP. BD. ON ALL WET WALLS U.N.O.

ROOM FINISH SCHEDULE NOTES

1. PROVIDE SOUND ATTENUATION IN INTERIOR WALLS OF THIS ROOM.
2. PROVIDE 4'-0" H. FRP PANELS ON SIDEWALLS OF FLOOR MOP SINK BASIN, w/ ALL EDGE TRIM AND SEALANT PER MFR. STD. DETAILS.
3. ALL EXPOSED STEEL SURFACES OF STAIR AND LANDING STRUCTURES AND STRINGER STEEL TO PAINTED - SEMI-GLOSS FINISH.
4. PAINT ALL DECK, STRUCTURE AND MECHANICAL DUCTWORK IN EXPOSED OPEN CEILING w/ DRY FALL PAINT.
5. PROVIDE DOOR THRESHOLD.
6. INSTALL CERAMIC TILE BASE AT GYP. BD. WALLS ONLY. CERAMIC WALL TILE AT WET WALLS TO EXTEND TO FINISH FLOOR.
7. CEILING HEIGHT VARIES, SEE CEILING PLAN FOR ADDITIONAL INFORMATION.
8. PROVIDE HIGH ABUSE GYP. BD. ON WALLS.

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SANTA MARIA COMMUNITY SERVICES

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SANTA MARIA COMMUNITY SERVICES

1048 CONSIDINE AVE.
CINCINNATI, OHIO 45205

CERTIFICATION

STATE OF OHIO ROBERT N. HUMASON 14056 REGISTERED ARCHITECT

REVISIONS

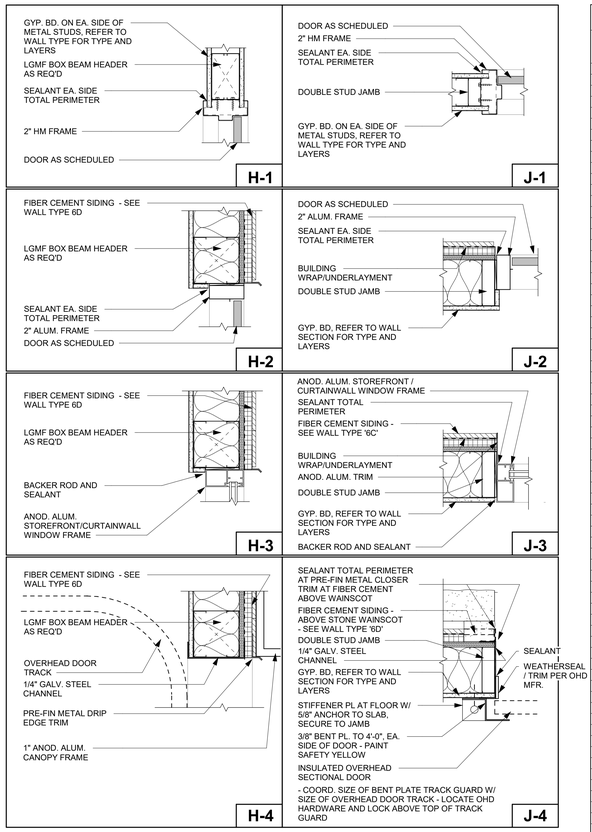
#	DATE	DESCRIPTION
	01-09-26	80% PROGRESS

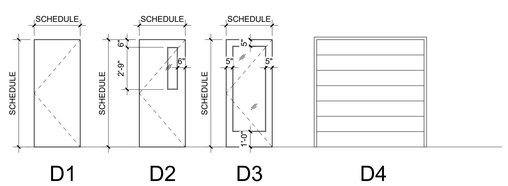
PROJECT #: 25109

DRAWN: TDS **CHECKED:** RNH

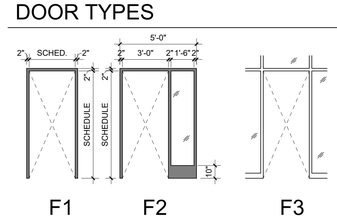
ROOM FINISH SCHEDULE

A601

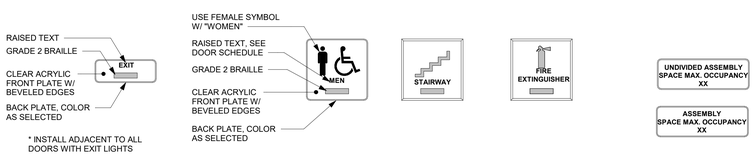




DOOR TYPES



FRAME TYPES



SIGNAGE

ATA_DOOR SCHEDULE_DUMMY

#	LEAF COUNT	DOOR W	DOOR H	DOOR THICK	DOOR TYPE	DOOR MAT.	DOOR FIN.	GLASS TYPE	GLASS W	GLASS H	FRAME TYPE	FRAME MAT.	FRAME FIN.	DETAIL HEAD	DETAIL JAMB	FIRE RATING	THRESHOLD	SIGN TEXT	NOTES
100A		6' - 0"	7' - 0"	0' - 1 3/4"	D3	ALUM.	ANOD.				F3	ALUM.	ANOD.	*	*		FULL		3
100B		6' - 0"	7' - 0"	0' - 1 3/4"	D3	ALUM.	ANOD.				F3	ALUM.	ANOD.	*	*			EXIT	3
102		3' - 0"	7' - 0"	0' - 1 3/4"	D1	WD	CLEAR				F2	HM	P	H-1	J-1				
104		3' - 0"	7' - 0"	0' - 1 3/4"	D1	WD	CLEAR				F2	HM	P	H-1	J-1				
105		3' - 0"	7' - 0"	0' - 1 3/4"	D1	WD	CLEAR				F2	HM	P	H-1	J-1				
106		3' - 0"	7' - 0"	0' - 1 3/4"	D1	WD	CLEAR				F2	HM	P	H-1	J-1				
107		3' - 0"	7' - 0"	0' - 1 3/4"	D1	WD	CLEAR				F2	HM	P	H-1	J-1				
108		3' - 0"	7' - 0"	0' - 1 3/4"	D1	WD	CLEAR				F2	HM	P	H-1	J-1				
109		3' - 0"	7' - 0"	0' - 1 3/4"	D1	WD	CLEAR				F2	HM	P	H-1	J-1				
110		3' - 0"	7' - 0"	0' - 1 3/4"	D1	WD	CLEAR				F2	HM	P	H-1	J-1				
111		3' - 0"	7' - 0"	0' - 1 3/4"	D1	WD	CLEAR				F2	HM	P	H-1	J-1				
112		3' - 0"	7' - 0"	0' - 1 3/4"	D1	WD	CLEAR				F2	HM	P	H-1	J-1				
113		3' - 0"	7' - 0"	0' - 1 3/4"	D1	WD	CLEAR				F1	HM	P	H-1	J-1				
114		3' - 0"	7' - 0"	0' - 1 3/4"															
115		3' - 0"	7' - 0"	0' - 1 3/4"	D1	WD	CLEAR				F1	HM	P	H-1	J-1				
116		3' - 0"	7' - 0"	0' - 1 3/4"	D1	WD	CLEAR				F1	HM	P	H-1	J-1				
117		4' - 0"	7' - 0"	0' - 1 3/4"	D1	WD	CLEAR				F1	HM	P	H-1	J-1				
119A		6' - 0"	7' - 0"	0' - 1 3/4"	D1	WD	CLEAR				F1	HM	P	H-1	J-1				
119B		8' - 0"	8' - 0"	0' - 3 5/32"	D4	METAL	PRE-FIN	---			---	METAL	PRE-FIN	H-4	J-4				
120		3' - 0"	7' - 0"	0' - 1 3/4"	D1	WD	CLEAR				F1	HM	P	H-1	J-1				
121		3' - 0"	7' - 0"	0' - 1 3/4"	D1	WD	CLEAR				F1	HM	P	H-1	J-1			UNISEX (ADA)	
122		3' - 0"	7' - 0"	0' - 1 3/4"	D1	WD	CLEAR				F1	HM	P	H-1	J-1			UNISEX	
123		3' - 0"	7' - 0"	0' - 1 3/4"	D1	WD	CLEAR				F1	HM	P	H-1	J-1			UNISEX (ADA)	
124		3' - 0"	7' - 0"	0' - 1 3/4"	D1	WD	CLEAR				F1	HM	P	H-1	J-1				
125		3' - 0"	7' - 0"	0' - 1 3/4"	D1	WD	CLEAR				F1	HM	P	H-1	J-1				
126		3' - 0"	7' - 0"	0' - 1 3/4"	D1	WD	CLEAR				F2	HM	P	H-1	J-1				
127		3' - 0"	7' - 0"	0' - 1 3/4"	D1	WD	CLEAR				F2	HM	P	H-1	J-1				
128		3' - 0"	7' - 0"	0' - 1 3/4"	D1	WD	CLEAR				F1	HM	P	H-1	J-1			UNISEX (ADA)	
129		3' - 0"	7' - 0"	0' - 1 3/4"	D1	WD	CLEAR				F1	HM	P	H-1	J-1			UNISEX	
130		3' - 0"	7' - 0"	0' - 1 3/4"	D1	WD	CLEAR				F1	HM	P	H-1	J-1			UNISEX	
131		3' - 0"	7' - 0"	0' - 1 3/4"	D1	WD	CLEAR				F1	HM	P	H-1	J-1			UNISEX	
132		3' - 0"	7' - 0"	0' - 1 3/4"	D1	WD	CLEAR				F1	HM	P	H-1	J-1				
134		3' - 0"	7' - 0"	0' - 1 3/4"	D2	WD	CLEAR				F1	HM	P	H-1	J-1				
135		3' - 0"	7' - 0"	0' - 1 3/4"	D1	WD	CLEAR				F1	HM	P	H-1	J-1			SHOWER (ADA)	
136		3' - 0"	7' - 0"	0' - 1 3/4"	D1	WD	CLEAR				F1	HM	P	H-1	J-1				
137		3' - 0"	7' - 0"	0' - 1 3/4"	D1	WD	CLEAR				F1	HM	P	H-1	J-1				
138		3' - 0"	7' - 0"	0' - 1 3/4"	D2	WD	CLEAR				F1	HM	P	H-1	J-1				
140		3' - 0"	7' - 0"	0' - 1 3/4"	D2	WD	CLEAR				F1	HM	P	H-1	J-1				
141		3' - 0"	7' - 0"	0' - 1 3/4"	D3	WD	CLEAR				F1	HM	P	H-1	J-1				
142		3' - 6"	7' - 0"	0' - 1 3/4"	D1	WD	CLEAR				F1	HM	P	H-1	J-1				
143		3' - 0"	7' - 0"	0' - 1 3/4"	D1	WD	CLEAR				F1	HM	P	H-1	J-1				
145A		6' - 0"	7' - 0"	0' - 1 3/4"	D1	WD	CLEAR				F1	HM	P	H-1	J-1			(OCCUPANCY SIGNAGE)	
145B		6' - 0"	7' - 0"	0' - 1 3/4"	D3	WD	CLEAR				F1	HM	P	H-1	J-1			(OCCUPANCY SIGNAGE)	
146		3' - 0"	7' - 0"	0' - 1 3/4"	D1	WD	CLEAR				F1	HM	P	H-1	J-1				
147		3' - 0"	7' - 0"	0' - 1 3/4"	D1	WD	CLEAR				F1	HM	P	H-1	J-1			UNISEX (ADA)	
148		3' - 0"	7' - 0"	0' - 1 3/4"	D1	WD	CLEAR				F1	HM	P	H-1	J-1			UNISEX	
149A		3' - 0"	7' - 0"	0' - 1 3/4"	D3	WD	CLEAR				F2	HM	P	*	*		FULL		3
149B		3' - 0"	7' - 0"	0' - 1 3/4"	D3	ALUM.	ANOD.				F1	ALUM.	ANOD.	H-2	J-2				
150		3' - 0"	7' - 0"	0' - 1 3/4"	D1	WD	CLEAR				F2	HM	P	H-1	J-1			(OCCUPANCY SIGNAGE)	
151A		3' - 0"	7' - 0"	0' - 1 3/4"	D1	WD	CLEAR				F2	HM	P	H-1	J-1			(OCCUPANCY SIGNAGE)	
151B		3' - 0"	7' - 0"	0' - 1 3/4"	D1	WD	CLEAR				F2	HM	P	H-1	J-1			(OCCUPANCY SIGNAGE)	
152		6' - 0"	7' - 0"	0' - 1 3/4"	D3	WD	CLEAR				F1	HM	P	H-1	J-1				
153		3' - 0"	7' - 0"	0' - 1 3/4"	D2	WD	CLEAR				F1	HM	P	H-1	J-1				
154		3' - 0"	7' - 0"	0' - 1 3/4"	D2	WD	CLEAR				F1	HM	P	H-1	J-1				
155		3' - 0"	7' - 0"	0' - 1 3/4"	D1	WD	CLEAR				F1	HM	P	H-1	J-1			UNISEX (ADA)	
156		3' - 0"	7' - 0"	0' - 1 3/4"	D1	WD	CLEAR				F2	HM	P	H-1	J-1				
157		3' - 0"	7' - 0"	0' - 1 3/4"	D1	WD	CLEAR				F2	HM	P	H-1	J-1				
203		3' - 0"	7' - 0"	0' - 1 3/4"	D1	WD	CLEAR				F2	HM	P	H-1	J-1				
204		3' - 0"	7' - 0"	0' - 1 3/4"	D1	WD	CLEAR				F2	HM	P	H-1	J-1				
205		3' - 0"	7' - 0"	0' - 1 3/4"	D1	WD	CLEAR				F2	HM	P	H-1	J-1				
206		3' - 0"	7' - 0"	0' - 1 3/4"	D1	WD	CLEAR				F2	HM	P	H-1	J-1				
207		3' - 0"	7' - 0"	0' - 1 3/4"	D1	WD	CLEAR				F2	HM	P	H-1	J-1				
208A		3' - 0"	7' - 0"	0' - 1 3/4"	D3	ALUM.	CLEAR				F3	ALUM.	ANOD.	*	*		FULL		3
208B		3' - 0"	6' - 10"	0' - 1 3/4"	D3	ALUM.	CLEAR				F3	ALUM.	ANOD.	*	*		FULL		3
210		3' - 0"	7' - 0"	0' - 1 3/4"	D1	WD	CLEAR				F2	HM	P	H-1	J-1				
211		3' - 0"	7' - 0"	0' - 1 3/4"	D2	WD	CLEAR				F1	HM	P	H-1	J-1				
213		3' - 0"	7' - 0"	0' - 1 3/4"	D1	WD	CLEAR				F1	HM	P	H-1	J-1				
216		3' - 0"	7' - 0"	0' - 1 3/4"	D1	WD	CLEAR				F2	HM	P	H-1	J-1				
217		3' - 0"	7' - 0"	0' - 1 3/4"	D1	WD	CLEAR				F2	HM	P	H-1	J-1				
218		3' - 0"	7' - 0"	0' - 1 3/4"	D1	WD	CLEAR				F2	HM	P	H-1	J-1				
219		3' - 0"	7' - 0"	0' - 1 3/4"	D2	WD	CLEAR				F1	HM	P	H-1	J-1				
220		3' - 0"	7' - 0"	0' - 1 3/4"	D1	WD	CLEAR				F1	HM	P	H-1	J-1				
221		3' - 0"	7' - 0"	0' - 1 3/4"	D1	WD	CLEAR				F2	HM	P	H-1	J-1			(OCCUPANCY SIGNAGE)	
222		3' - 0"	7' - 0"	0' - 1 3/4"	D1	WD	CLEAR				F2	HM	P	H-1	J-1			(OCCUPANCY SIGNAGE)	
223		3' - 0"	7' - 0"	0' - 1 3/4"	D1	WD	CLEAR				F2	HM	P	H-1	J-1				
224		3' - 0"	7' - 0"	0' - 1 3/4"	D1	WD	CLEAR				F1	HM	P	H-1	J-1				
225		3' - 0"	7' - 0"	0' - 1 3/4"	D1	WD	CLEAR				F2	HM	P	H-1	J-1				
226		3' - 0"	7' - 0"	0' - 1 3/4"	D1	WD	CLEAR				F2	HM	P	H-1	J-1				
227		3' - 0"	7' - 0"	0' - 1 3/4"	D1	WD	CLEAR				F2	HM	P	H-1	J-1				
228		3' - 0"	7' - 0"	0' - 1 3/4"	D1	WD	CLEAR				F2	HM	P	H-1	J-1				
229		3' - 0"	7' - 0"	0' - 1 3/4"	D1	WD	CLEAR				F2	HM	P	H-1	J-1				
230		3' - 0"	7' - 0"	0' - 1 3/4"	D1	WD	CLEAR				F2	HM	P	H-1	J-1				
231		3' - 0"	7' - 0"	0' - 1 3/4"	D1	WD	CLEAR				F2	HM	P	H-1	J-1				
232		3' - 0"	7' - 0"	0' - 1 3/4"	D1	WD	CLEAR				F2	HM	P	H-1	J-1				
233		3' - 0"	7' - 0"	0' - 1 3/4"	D1	WD	CLEAR				F2	HM	P	H-1	J-1				
234		3' - 0"	7' - 0"	0' - 1 3/4"	D1	WD	CLEAR				F2	HM	P	H-1	J-1				
236		3' - 0"	7' - 0"	0' - 1 3/4"	D1	WD	CLEAR				F1	HM	P	H-1	J-1				
237		3' - 0"	7' - 0"	0' - 1 3/4"	D1	WD	CLEAR				F1	HM	P	H-1	J-1			UNISEX	
238		3' - 0"	7' - 0"	0' - 1 3/4"	D1	WD	CLEAR				F1	HM	P	H-1	J-1			UNISEX	
239		3' - 0"	7' - 0"	0' - 1 3/4"	D1	WD	CLEAR				F1	HM	P	H-1	J-1			UNISEX	
240		3' - 0"	7' - 0"	0' - 1 3/4"	D1	WD	CLEAR				F2	HM	P	H-1	J-1				
241		3' - 0"	7' - 0"	0' - 1 3/4"	D1	WD	CLEAR				F1	HM	P	H-1	J-1			UNISEX (ADA)	
242		3' - 0"	7' - 0"	0' - 1 3/4"	D1	WD	CLEAR				F1	HM	P	H-1	J-1			UNISEX (ADA)	
243		3' - 0"	7' - 0"	0' - 1 3/4"	D1	WD	CLEAR				F1	HM	P	H-1	J-1			UNISEX (ADA)	
245		3' - 0"	7' - 0"	0' - 1 3/4"	D1	WD	CLEAR				F2	HM	P	H-1	J-1				
246		3' - 0"	7' - 0"	0' - 1 3/4"	D1	WD	CLEAR				F2	HM	P	H-1	J-1				
247		3' - 0"	7' - 0"	0' - 1 3/4"	D1	WD	CLEAR				F1	HM	P	H-1	J-1				
248		3' - 0"	7' - 0"	0' - 1 3/4"	D1	WD	CLEAR				F1	HM	P	H-1	J-1				
254		3' - 0"	7' - 0"	0' - 1 3/4"	D1	WD	CLEAR				F2	HM	P	H-1	J-1				
255		3' - 0"	7' - 0"	0' - 1 3/4"	D1	WD	CLEAR				F2	HM	P	H-1	J-1				
256		3' - 0"	7' - 0"	0' - 1 3/4"	D1	WD	CLEAR				F2	HM	P	H-1	J-1				
258		3' - 0"	7' - 0"	0' - 1 3/4"	D1	WD	CLEAR				F2	HM	P	H-1	J-1				
259		3' - 0"	7' - 0"	0' - 1 3/4"	D1	WD	CLEAR				F2	HM	P	H-1	J-1				
260		3' - 0"	7' - 0"	0' - 1 3/4"	D1	WD	CLEAR				F1	HM	P	H-1	J-1				
261		3' - 0"	7' - 0"	0' - 1 3/4"	D3	WD	CLEAR				F3	HM	P	H-1	J-1				
S21A		3' - 0"	7' - 0"	0' - 1 3/4"	D1	WD	CLEAR				F1	HM	P	H-1	J-1			EXIT	
S21B		3' - 0"	7' - 0"	0' - 1 3/4"	D3	ALUM.	ANOD.				F3	ALUM.	ANOD.	*	*		FULL	EXIT	
S22		3' - 0"	7' - 0"	0' - 1 3/4"	D1	WD	CLEAR				F1	HM	P	H-1	J-1			EXIT STAIRWAY DOWN	

GENERAL NOTES

A. THIS PROPERTY SHALL COMPLY WITH ALL REQUIREMENTS OF ICC A117.1-2017 PER 2017 ANSI.

B. DIMENSIONS ARE TO FACE OF GYP. BD., SHEATHING, COLUMN CENTERLINE, UNLESS OTHERWISE NOTED.

C. THE OPENING FORCE FOR INTERIOR SIDE-SWINGING DOORS WITHOUT CLOSERS SHALL NOT EXCEED A (5lb.) FORCE. FOR OTHER SIDE-SWINGING, SLIDING AND FOLDING DOORS, THE DOOR LATCH SHALL RELEASE WHEN SUBJECTED TO A (15lb.) FORCE. THE DOOR SHALL BE SET IN MOTION WHEN SUBJECTED TO A (30lb.) FORCE. THE DOOR SHALL SWING TO A FULL OPEN POSITION WHEN SUBJECTED TO A (15lb.) FORCE. FORCES SHALL BE APPLIED TO THE LATCH SIDE.

D. THRESHOLDS SHALL BE NO HIGHER THAN 1/2" ABOVE AN ADJACENT FLOOR. EDGE TO BE BEVELED WITH A SLOPE NO GREATER THAN 1 IN 2.

E. CONTRACTOR TO COORDINATE REQUIRED ROUGH OPENING SIZES.

F. DOOR HARDWARE SHALL BE OF THE LEVER OR PUSH TYPE. MOUNTED 30" TO 44" ABOVE THE FLOOR AND BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST. THE MAXIMUM EFFORT REQUIRED TO ACTIVATE OPERABLE PARTS SHALL BE 5 POUNDS. WHERE PANIC HARDWARE IS INSTALLED, IT SHALL HAVE A MAXIMUM UNLATCHING FORCE NOT EXCEEDING 15 POUNDS OF PRESSURE.

G. ALL METAL DOOR FRAMES TO BE PROVIDED WITH SILENCERS.

H. THRESHOLDS ARE INDICATED AS HALF OR FULL SADDLE IN SCHEDULE. ALL THRESHOLDS SHALL BE ADA COMPLIANT. THRESHOLDS TO BE HEAVY DUTY ALUMINUM W/ CLEAR ANOD. FINISH AND SET IN FULL BED OF SEALANT.

DOOR SCHEDULE NOTES

1. UNDERCUT DOOR 1"
2. ELECTRONIC KEYCARD (KEYFOB) HARDWARE BY TENANT VENDOR. GC TO PROVIDE ELECTRIC STRIKES AND MODIFY HARDWARE SET AS REQUIRED FOR ELECTRIC HARDWARE.
3. PROVIDE HEAD AND JAMB DETAILS PER MFR. STANDARD DETAILS.

ATA ARCHITECTS
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SANTA MARIA COMMUNITY SERVICES

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SANTA MARIA COMMUNITY SERVICES

1048 CONSIDINE AVE.
CINCINNATI, OHIO 45205

CERTIFICATION

STATE OF OHIO
ROBERT N. HUMASON
14056
REGISTERED ARCHITECT

REVISIONS

#	DATE	DESCRIPTION
	01-09-26	80% PROGRESS

PROJECT #: 25109

DRAWN: TDS **CHECKED:** RNH

DOOR SCHEDULES

A602

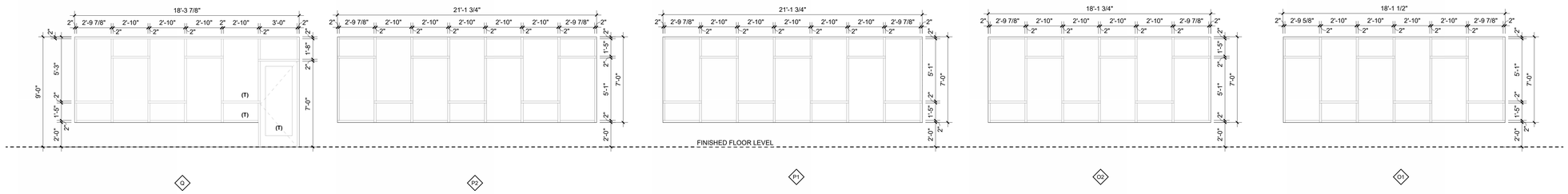
GENERAL NOTES

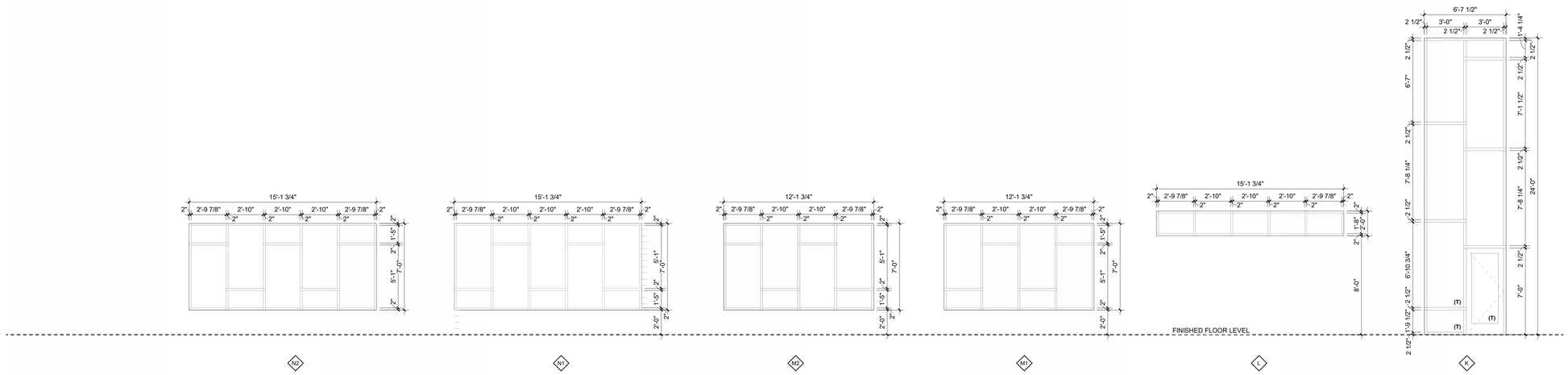
A. CONTRACTOR TO COORDINATE REQUIRED ROUGH OPENING SIZES.

B. SEE EXTERIOR ELEVATIONS ON A201 AND A202 FOR LOCATIONS OF ALL EXTERIOR WINDOW TYPES. SEE FLOOR PLANS A101 AND A102 FOR LOCATIONS OF ALL INTERIOR WINDOW TYPES.

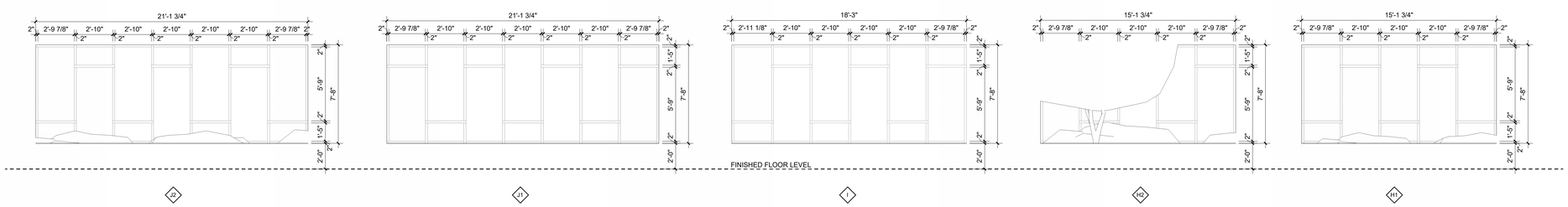
C. ALL EXTERIOR WINDOWS TO BE 1" INSULATED DOUBLE GLAZED w/ LOW-E COATING ON SECOND SURFACE.

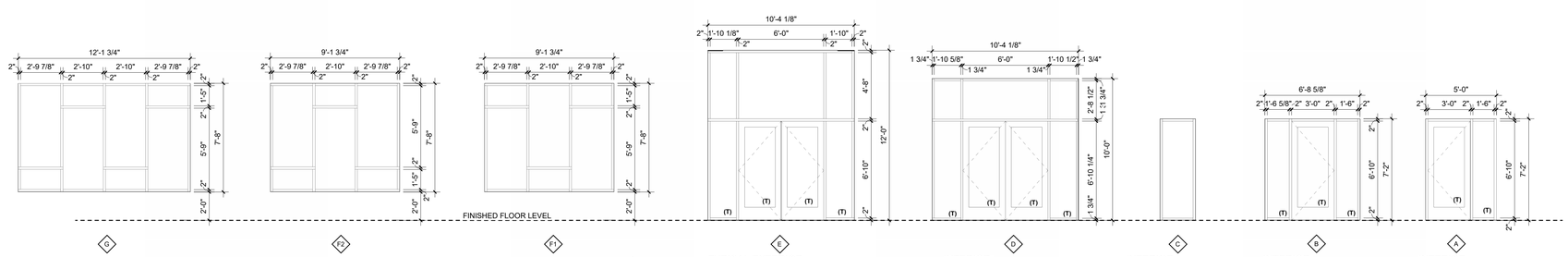
D. TEMPERED GLAZING IS INDICATED BY (T).





1" INSULATED CLEAR GLASS IN 2 1/2" x 5 1/2"
ANODIZED ALUMINUM CURTAINWALL,
w/ LOW-E COATING SECOND SURFACE.
.29 U-FACTOR
.39 SOLAR HEAT GAIN COEFFICIENT





TYPICAL EXTERIOR
WINDOW TYPES (E thru Q) (U.N.O.):
1" INSULATED CLEAR GLASS IN 2" x 4 1/2"
ANODIZED ALUMINUM STOREFRONT,
w/ LOW-E COATING SECOND SURFACE.
.29 U-FACTOR
.39 SOLAR HEAT GAIN COEFFICIENT

INTERIOR
1/4" CLEAR GLASS IN 1 3/4" x 4 1/2"
ANODIZED ALUMINUM STOREFRONT

INTERIOR
1/4" CLEAR GLASS IN 2" x 4 7/8"
HOLLOW METAL FRAME - SEE
HEAD AND JAMB DETAILS

INTERIOR
1/4" CLEAR GLASS IN 2" x 4 7/8"
HOLLOW METAL FRAME - SEE
HEAD AND JAMB DETAILS

INTERIOR
1/4" CLEAR GLASS IN 2" x 4 7/8"
HOLLOW METAL FRAME - SEE
HEAD AND JAMB DETAILS

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REVISIONS

#	DATE	DESCRIPTION
	01-09-26	80% PROGRESS

PROJECT #: 25109

DRAWN: TDS **CHECKED:** RNH

WINDOW TYPES

A603

GENERAL FOUNDATION NOTES :

CONCRETE SLABS ON GRADE TO BE 4" CONCRETE SLAB w/ (1) LAYER 6x6 W2.9xW2.9 MESH (CENTERED IN SLAB DEPTH) ON 6" (min) GRANULAR BASE. CONTROL JOINT SPACING SHALL NOT EXCEED 12'-6" IN EITHER DIRECTION (UNO).

FD-x, HD-x, TD-x and/or FS-x - DENOTES FLOOR DRAIN LOCATION - REFER TO PLUMBING DRAWINGS TO VERIFY TYPES, QUANTITIES AND LOCATIONS OF DRAINS. SLOPE SLAB AS REQUIRED PER MEP - MAINTAIN SLAB THICKNESS. ANY SLOPES SHOWN ON PLAN ARE FOR COORDINATION ONLY - FINAL LAYOUT TO BE VERIFIED PRIOR TO POURING SLABS.

PLUMBING LINES AND INVERT ELEVATIONS ARE ALSO SHOWN FOR EASE OF COORDINATION ONLY - FINAL LOCATIONS ARE TO BE TAKEN FROM PLUMBING DRAWINGS. FOOTINGS ARE TO BE STEPPED ACCORDINGLY IF FINAL LAYOUT DIFFERS FROM WHAT IS SHOWN HERE - SEE SHEET S102 FOR TYPICAL DETAILS.

REFER TO SHEET S102 FOR ADDITIONAL TYPICAL CONCRETE / FOUNDATION DETAILS.

FS - DENOTES FOOTING STEP. SEE DETAILS ON S102 FOR EXTERIOR TRENCH FOOTING STEP, INTERIOR FOOTING STEP & TRANSITION STEP FROM EXTERIOR TRENCH FOOTING TO INTERIOR FOOTING.

REFER TO GEOTECHNICAL REPORT FOR APPROXIMATE LOCATIONS AND EXTENTS OF EXTISTING FILL BELOW THE BUILDING TO BE REMOVED AND REPLACED DURING MASS EARTHWORK OPERATIONS

B/F EL xxx'-xx" INDICATES BOTTOM OF FOOTING ELEVATION.

F xx - DENOTES FOOTING TYPE MARK - SEE FOOTING SCHEDULE FOR DESCRIPTION & REINFORCING.

GENERAL FLOOR FRAMING NOTES :

ELEVATED FLOOR SLABS SHALL BE 4" CONCRETE SLAB OVER 9/16" x 26 ga WIDE RIB GALVANIZED (TOTAL THICKNESS TO BE 4" - UNO). PROVIDE 6x6 W2.9xW2.9 WELDED WIRE FABRIC REINFORCING IN SLAB. ATTACH DECK TO SUPPORTS w/ 5/8" Ø PUDDLE WELDS IN A 36/4 PATTERN.

JOIST BRIDGING (IF SHOWN) IS SHOWN DIAGRAMMATICALLY - ALL BRIDGING IS TO BE LOCATED & INSTALLED PER CURRENT SJI SPECS

(xxx'-xx") DENOTES TOP OF STEEL ELEVATION (T/S EL)

SLOPE SLAB TO FLOOR DRAINS AS REQUIRED - VERIFY LAYOUT w/ ARCHITECT & ENGINEER PRIOR TO POURING SLABS.

SEE S400 FOR TYPICAL FLOOR OPENING FRAME (F.O.F.) DETAIL. FLOOR OPENING SIZES & QUANTITIES ARE TO BE VERIFIED w/ APPROPRIATE DISCIPLINES. NOTIFY ENGINEER IF OPENINGS DIFFER FROM WHAT IS SHOWN.

SEE SHEET S400 FOR ADDITIONAL TYPICAL FRAMING / STEEL DETAILS

TYPICAL FLOOR JOIST SEAT DEPTH TO BE 2 1/2" U.N.O.

GENERAL ROOF FRAMING NOTES :

SEE GENERAL FLOOR FRAMING NOTES FOR WALL ANGLE DESIGNATION NOTES.

ALL ROOF DECK ON BAR JOISTS TO BE 1 1/2" x 22 ga WIDE RIB GALVANIZED (G60) METAL ROOF DECK WELDED TO SUPPORTS w/ 5/8" Ø PUDDLE WELDS IN A 36/5 PATTERN & (2) #10 'TEK' SCREWS @ SIDELAPS BETWEEN SUPPORTS.

JOIST BRIDGING (IF SHOWN) IS SHOWN DIAGRAMMATICALLY - ALL BRIDGING IS TO BE LOCATED & INSTALLED PER CURRENT SJI SPECS

JOISTS HAVE BEEN DESIGNED w/ CONSIDERATION OF DRIFTING SNOW & MECHANICAL EQUIPMENT LOADS.

(xxx'-xx") DENOTES TOP OF STEEL ELEVATION (T/S EL)

SEE S400 FOR TYPICAL ROOF OPENING FRAME (R.O.F.) DETAILS. ROOF OPENING SIZES & QUANTITIES ARE TO BE VERIFIED w/ APPROPRIATE DISCIPLINES. NOTIFY ENGINEER IF OPENINGS DIFFER FROM WHAT IS SHOWN.

SEE SHEET S400 FOR ADDITIONAL TYPICAL FRAMING / STEEL DETAILS

TYPICAL ROOF JOIST SEAT DEPTH TO BE 3 1/2" U.N.O.

STRUCTURAL DESIGN LOADS

FOUNDATION DESIGN CRITERIA:

MAXIMUM ALLOWABLE SOIL BEARING PRESSURE SHALL NOT EXCEED 3000 PSF.
SEE GEOTECHNICAL REPORT PROVIDED BY **TERRACON**, DATED **10-10-2023** FOR ADDITIONAL INFORMATION. VERIFY BEARING CAPACITY OF SOIL PRIOR TO PLACEMENT OF FOOTINGS. PROVIDE COPIES OF INSPECTION AND COMPACTION REPORTS PREPARED BY A QUALIFIED GEOTECHNICAL ENGINEER.

FLOOR DESIGN LOADS (OBC 2024):

LIVE LOAD:
= 125 psf - Mechanical Rooms (Includes Equipment and 4" Concrete Housekeeping Pads)
= 100 psf - Stairways and Landings
= 80 psf - Corridors
= 60 psf - Classrooms (Includes 20 psf - Partition Loads)

DEAD LOAD:
= 55 psf - (45 psf - 4" Concrete Slab + 10 psf - Misc)

ROOF DESIGN LOADS (OBC 2024):

Minimum Roof Live Load = 20 psf

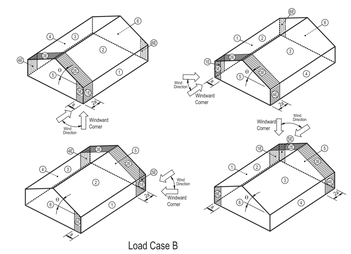
SNOW LOAD (ASCE 7-16):
Ground Snow Load, pg = 20.0 psf
Flat Roof Snow Load, pf = 14.0 psf
Minimum Value for Low-Slope Roofs, pf = 20.0 psf
Snow Importance Factor, IS = 1.0
Thermal Factor, Ct = 1.0
Exposure Factor, Ce = 1.0
Rain-on-Snow Surcharge (Slope < ½"/ft) = 5.0 psf

WIND LOAD (ASCE 7-16):
Basic Wind Speed (3 second gust), V = 106 mph
Wind Importance Factor, IW = 1.0
Wind Exposure B
Internal Pressure Coefficient = +/- 0.18
Net Wind Uplift on Joists = 16 psf
Flat Roof (mean roof ht = 30')

MWFRS Net Pressures (psf)
See Diagram This Sheet for Zone Description

Zone 1	12.2
Zone 2	-14.9
Zone 3	-11.3
Zone 4	-10.5
Zone 5	------
Zone 6	------
Zone 1E	16.6
Zone 2E	-21.4
Zone 3E	-14.7
Zone 4E	-13.9
Zone 5E	------
Zone 6E	------

SEISMIC LOAD (ASCE 7-16):
Occupancy Category II
SDS = 0.127 SS = 0.146
SD1 = 0.078 S1 = 0.078
Site Soil Class C
Seismic Design Category B
Basic Seismic Force Resisting System - Structural
Steel Systems Not Specifically Detailed for Seismic Resistance
R = 3.0
IE = 1.0
Cs = 0.038
Cd = 3.0
Equivalent Lateral Force Procedure used in design
Base Shear,
V = 58.2 kips



Load Case B

Basic Load Cases

MATERIALS AND WORK REQUIRING SPECIAL INSPECTIONS

(PER 2024 OHIO BUILDING CODE)

1. INSPECTION OF FABRICATORS
   UNLESS EXEMPT BY CODE SECTION 1704.2.1, THE SPECIAL INSPECTOR SHALL VERIFY THAT THE FABRICATOR MAINTAINS DETAILED FABRICATION AND QUALITY CONTROL PROCEDURES THAT PROVIDE A BASIS FOR INSPECTION CONTROL OF THE WORKMANSHIP AND THE FABRICATOR'S ABILITY TO CONFORM TO APPROVED CONSTRUCTION DOCUMENTS AND REFERENCED STANDARDS. THE SPECIAL INSPECTOR SHALL REVIEW THE PROCEDURES FOR COMPLETENESS AND ADEQUACY RELATIVE TO THE CODE REQUIREMENTS FOR THE FABRICATOR'S SCOPE OF WORK.
2. STEEL CONSTRUCTION
   THE SPECIAL INSPECTIONS FOR STEEL ELEMENTS OF BUILDINGS AND STRUCTURES SHALL BE AS REQUIRED BY TABLE 1704.3.
3. CONCRETE CONSTRUCTION
   UNLESS EXEMPT BY CODE SECTION 1704.4 THE SPECIAL INSPECTIONS AND VERIFICATIONS FOR CONCRETE CONSTRUCTION SHALL BE AS REQUIRED BY TABLE 1704.4.
4. SOILS (PERFORMED BY SITE TESTING AGENCY)
   A SITE PREPARATION
   PRIOR TO PLACEMENT OF THE PREPARED FILL, THE SPECIAL INSPECTOR SHALL DETERMINE THAT THE SITE HAS BEEN PREPARED IN ACCORDANCE WITH THE APPROVED SOILS REPORT.
   B DURING FILL PLACEMENT OF 12" OR GREATER
   DURING PLACEMENT AND COMPACTION OF THE FILL MATERIAL, THE SPECIAL INSPECTOR SHALL DETERMINE THAT THE MATERIAL BEING USED AND THE MAXIMUM LIFT THICKNESS COMPLY WITH THE APPROVED REPORT.
   C EVALUATION OF IN-PLACE DENSITY
   THE SPECIAL INSPECTOR SHALL DETERMINE, AT THE APPROVED FREQUENCY, THAT THE IN-PLACE DRY DENSITY OF THE COMPACTED FILL COMPLIES WITH THE APPROVED REPORT.
   D REFER TO DRAWING S000 FOR ALLOWABLE SOIL BEARING PRESSURE VERIFICATION.
5. SPRAYED FIRE-RESISTANT MATERIALS
   SPECIAL INSPECTIONS FOR SPRAYED FIRE-RESISTANT MATERIALS APPLIED TO STRUCTURAL ELEMENTS AND DECKS SHALL BE IN ACCORDANCE WITH SECTIONS 1704.10.1 THROUGH 1704.10.5. SPECIAL INSPECTIONS SHALL BE BASED ON THE FIRE-RESISTANCE DESIGN AS DESIGNATED IN THE APPROVED CONSTRUCTION DOCUMENTS.

Table 1704.7 (2024 OHIO BUILDING CODE)
REQUIRED VERIFICATION AND INSPECTION OF SOILS

APPLICABLE (Unless noted N/A)	VERIFICATION AND INSPECTION TASK	CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LISTED
	1. Verify materials below footings are adequate to achieve the design bearing capacity.	-	X
	2. Verify excavations are extended to proper depth and have reached proper material.	-	X
	3. Perform classification and testing of controlled fill materials.	-	X
	4. Verify use of proper materials, densities and lift thicknesses during placement and compaction of controlled fill.	X	-
	5. Prior to placement of controlled fill, observe subgrade and verify that site has been prepared properly.	-	X

Table 1704.3 (2024 OHIO BUILDING CODE)
REQUIRED VERIFICATION AND INSPECTION OF STEEL CONSTRUCTION

APPLICABLE (Unless noted N/A)	VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCED STANDARD [a]	IBC REFERENCE
	1. Material verification of high-strength bolts, nuts and washers:				
	a. Identification markings to conform to ASTM standards specified in the approved construction documents.	-	X	Applicable ASTM material specifications; AISC 360, Section A3.3	-
	b. Manufacturer's certificate of compliance required.	-	X	-	-
	2. Inspection of high-strength bolting:				
	a. Bearing-type connections.	-	X	AISC 360, Section M2.5	1704.3.3
	b. Slip-critical connections.	X	X		
	3. Material verification of structural steel:				
	a. Identification markings to conform to ASTM standards specified in the approved construction documents.	-	-	ASTM A6 or ASTM A568	1708.4
	b. Manufacturers' certified mill test reports.	-	-	ASTM A6 or ASTM A568	
	4. Material verification of weld filler materials:				
	a. Identification markings to conform to AWS specification in the approved construction documents.	-	-	AISC 360, Section A3.5	-
	b. Manufacturer's certificate of compliance required.	-	-	-	-
	5. Inspection of welding: a. Structural Steel:	-	-		
	1) Complete and partial penetration groove welds.	X	-	AWS D1.1	1704.3.1
	2) Multipass fillet welds.	X	-		
	3) Single-pass fillet welds > 5/16"	X	-		
	4) Single-pass fillet welds ≤ 5/16"	-	X		
	5) Floor and roof deck welds.	-	X	AWS D1.3	-
	b. Reinforcing steel:	-	-	AWS D1.4 ACI 318: 3.5.2	-
	1) Verification of weldability of reinforcing steel other than ASTM A706.	-	X		
	2) Reinforcing steel-resisting flexural and axial forces in intermediate and special moment frames, and boundary elements of special reinforced concrete shear walls and shear reinforcement.	X	-		
	3) Shear reinforcement.	X	-		
	4) Other reinforcing steel.	-	X		
	6. Inspection of steel frame joint details for compliance with approved construction documents: a. Details such as bracing and stiffening. b. Member locations. c. Application of joint details at each connections.	- - -	X - -	-	1704.3.2

For SI: 1 inch = 25.4 mm.
a. Where applicable, see also Section 1707.1, Special inspection for seismic resistance.

Table 1704.4 (2024 OHIO BUILDING CODE)
REQUIRED VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION

APPLICABLE (Unless noted N/A)	VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCED STANDARD [a]	IBC REFERENCE
	1. Inspection of reinforcing steel, including prestressing tendons, and placement.	-	X	ACI 318: 3.5, 7.1-7.7	1913.4
	2. Inspection of reinforcing steel welding in accordance with Table 1704.3, Item 5b.	-	-	AWS D1.4 ACI 318: 3.5.2	-
	3. Inspect bolts to be installed in concrete prior to and during placement of concrete where allowable loads have been increased.	X	-	-	1911.5
	4. Verifying use of required design mix.	-	X	ACI 318: Ch. 4, 5.2-5.4	1904.2.2, 1913.2, 1913.3
	5. At the time fresh concrete is sampled to fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete.	X	-	ASTM C172 ASTM C31 ACI 318: 5.6, 5.8	1913.10
	6. Inspection of concrete and shotcrete placement for proper application techniques.	X	-	ACI 318: 5.9, 5.10	1913.6, 1913.7, 1913.8
	7. Inspection for maintenance of specified curing temperature and techniques.	-	X	ACI 318: 5.11-5.13	1913.9
	8. Inspection of prestressed concrete: a. Application of prestressing forces. b. Grouting of bonded prestressing tendons in the seismic-force-resisting system.	X X	-	ACI 318: 18.20 ACI 318: 18.18.4	-
	9. Erection of precast concrete members.	-	X	ACI 318: Ch. 16	-
	10. Verification of in-situ concrete strength, prior to stressing of tendons in posttensioned concrete and prior to removal of shores and forms from beams and structural slabs.	-	X	ACI 318: 6.2	-
	11. Inspect formwork for shape, location and dim's of the concrete member being formed.	-	X	ACI 318: 6.1.1	-

For SI: 1 inch = 25.4 mm.
a. Where applicable, see also Section 1707.1, Special inspection for seismic resistance.

ABBREVIATIONS

All abbreviations listed here may not be used and apply only to Structural (S-series) Sheets.

Some abbreviations used may refer to other disciplines. They are shown for coordination purposes only. Refer to appropriate disciplines drawings for additional info.

A B C D E

AB - Anchor Bolt
ACI - American Concrete Institute
AFF - Above Finished Floor
AH or **AHU** - Air Handling Unit(s)
AISC - American Institute of Steel Construction
ALT - Alternate
ANSI - American National Standards Institute
ARCH - Architect(s) or Architectural
ASCE - American Society of Civil Engineers
ASD - Allowable Stress Design
ASTM - American Society for Testing and Materials
AW - Acid Waste
AWS - American Welding Society
B/F or **B/FTG**- Bottom of Footing
BM - Beam
BOT or **BTM** or **B** - Bottom
BRG - Bearing
C/C - Center to Center
CFMF - Cold Formed Metal Framing
CIP - Cast-in-Place
CJ - Control Joint
CL or **℄** - Centerline
CLG - Ceiling
CLR - Clear
CMU - Concrete Masonry Unit(s)
COL - Column
CONC or **C** - Concrete
CONT - Continuous
COORD - Coordinate
DEFS - Direct-Applied Exterior Finish System
DIA or **Ø** - Diameter
DIAG - Diagonal
DIM - Dimension(s)
DN - Down
DWG(S) - Drawing(s)
EA - Each
EF - Exhaust Fan(s)
EIFS - Exterior Insulation Finish System
EJ - Expansion Joint
EL - Elevation
ELEV - Elevation or Elevator
EQ - Equal(s)
EQUIP - Equipment
EXIST - Existing
EXP - Expansion
EXT - Exterior

F G H I J K L M N O

FD - Floor Drain
FDN - Foundation
FMF - Floor Mat and Frame
FT - Foot or Feet
FIN - Finished
FL or **FLR** - Floor
FOF - Floor Opening Frame
FS - Footing Step
F.S. - Far Side
FTG or **F** - Footing
GA - Gauge
GB - Grade Beam
GC - General Contractor
GALV - Galvanized
GRV - Gravity Roof Ventilator(s)
GYP - Gypsum
HORIZ - Horizontal(ly)
HT - Height
HVAC - Heating, Ventilating & Air Conditioning
IBC - International Building Code
I.F. - Inside Face
INV - Invert
JB - Joist Bridging
JST - Joist
KB - Knee Brace
KEC - Kitchen Equipment Contractor
L - Ledge
LGMF - Light Gauge Metal Framing
LGMT - Light Gauge Metal Truss
LLH - Long Leg Horizontal
LLV - Long Leg Vertical
LRFD - Load and Resistance Factor Design
MANUF - Manufacturer(s)
MAX - Maximum
MEP - Mechanical, Electrical & Plumbing
MIN - Minimum
NCMA - National Concrete Masonry Association
NFPA - National Fire Protection Association
NIC - Not in Contract
N.S. - Near Side
NTS - Not to Scale
OAE - Or Approved Equal
OBC - Ohio Building Code
O.C. or **O/C** - On Center
O.F. - Outside Face
OPNG - Opening

P Q R S T U V W X Y Z

PB - Purlin Bridging
PC - Pile Cap or Precast
PDT - Perforated Drain Tile
PED - Pedestal
PL - Plate
R - Radius
REINF - Reinforcing or Reinforcement
REQ'D - Required
ROF - Roof Opening Frame
RTU - Roof Top Unit(s)
SAN - Sanitary
SIM - Similar
SJI - Steel Joist Institute
SOG - Slab On Grade
SPA - Space(s)
SPEC - Specification(s)
SQ - Square
STL or **S** - Steel
STM or **ST** - Storm
T - Top
T & B - Top and Bottom
TD - Trench Drain
TRANS - Transverse
TYP - Typical
UNO - Unless Noted Otherwise
VERT - Vertical(ly)
WOM - Walk-Off Mat
WP - Work Point
W.R. - Wide Rib
WWF - Welded Wire Fabric
XB - 'X' Brace

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CERTIFICATION

STATE OF OHIO
MICHAELA FRANK
E-49575
REGISTERED
PROFESSIONAL ENGINEER

REVISIONS

#	DATE	DESCRIPTION
	01-09-26	80% Progress Set
	01-30-26	Permit Issue

PROJECT #: 25109
DRAWN: Author **CHECKED:** Checker

GENERAL NOTES, DESIGN LOADS & ABBREVIATIONS

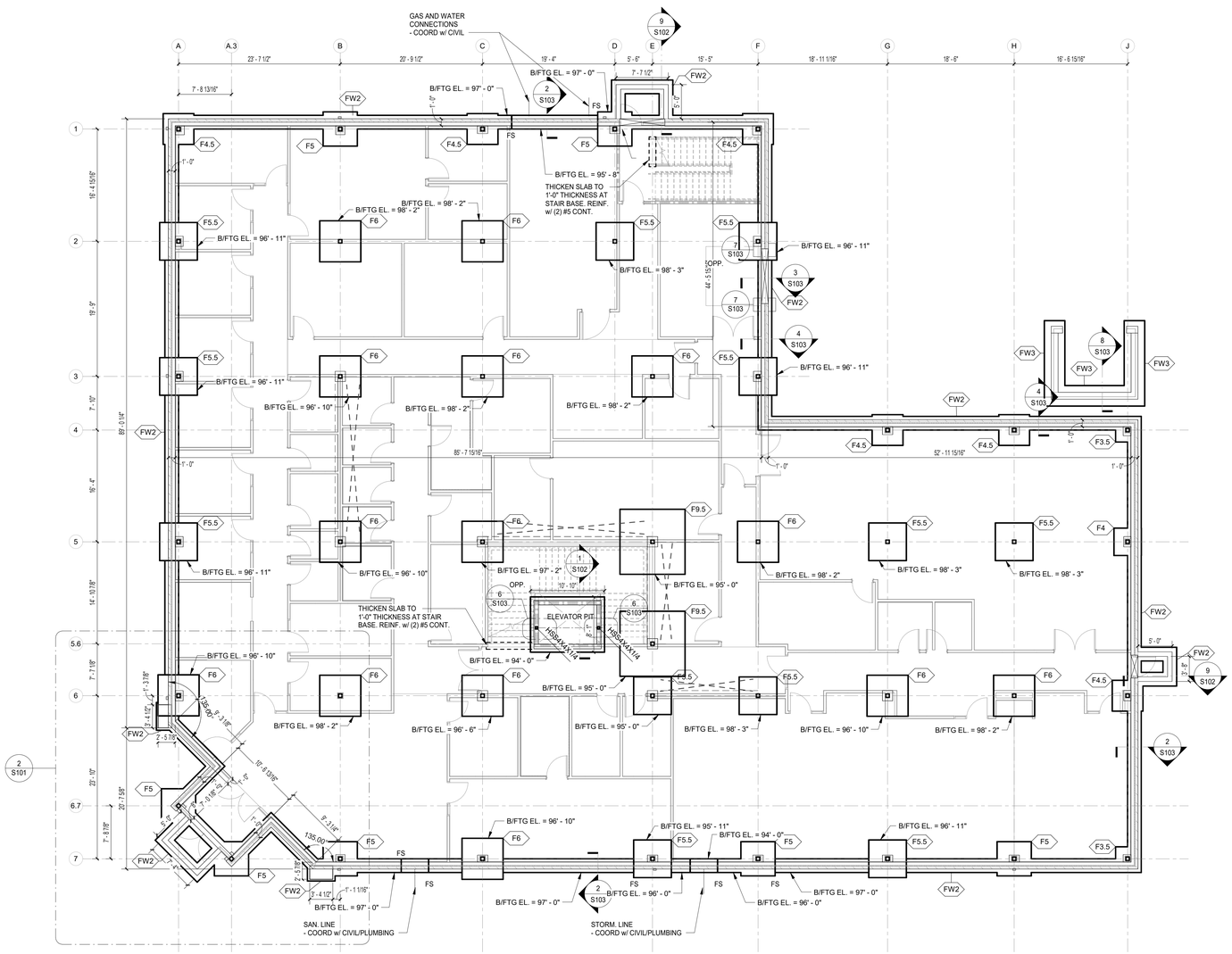
S000

FOOTING SCHEDULE

Mark	Description	Reinforcing
F3.5	3'-6" x 3'-6" x 1'-0"	(4) #4 EA. WAY
F4	4'-0" x 4'-0" x 1'-0"	(4) #5 EA. WAY
F4.5	4'-6" x 4'-6" x 1'-0"	(6) #4 EA. WAY
F5	5'-0" x 5'-0" x 1'-0"	(7) #4 EA. WAY
F5.5	5'-6" x 5'-6" x 1'-1"	(6) #5 EA. WAY
F6	6'-0" x 6'-0" x 1'-2"	(7) #5 EA. WAY
F9.5	9'-6" x 9'-6" x 3'-0"	(9) #7 EA. WAY T&B MATS
FW2	2'-0" x 1'-0" x CONT	(2) #5 CONT
FW3	3'-0" x 1'-0" x CONT	(3) #5 CONT

PEDESTAL SCHEDULE

Column Grid Location	Description	Length	T/FTG	T/PED	Pedestal Detail
A-1	18" x 18"	1' - 4"	98' - 0"	99' - 4"	A
A-2	16" x 18"	1' - 4"	98' - 0"	99' - 4"	F
A-3	16" x 18"	1' - 4"	98' - 0"	99' - 4"	F
A-5	16" x 18"	1' - 4"	98' - 0"	99' - 4"	F
A-6	16" x 18"	1' - 4"	98' - 0"	99' - 4"	F
A-6.7	16" x 18"	1' - 4"	98' - 0"	99' - 4"	E
A.3-7	16" x 18"	1' - 4"	98' - 0"	99' - 4"	E
B-1	16" x 18"	1' - 4"	98' - 0"	99' - 4"	B
B-3	18" x 18"	1' - 4"	98' - 0"	99' - 4"	G
B-5	18" x 18"	1' - 4"	98' - 0"	99' - 4"	G
B-7	16" x 18"	1' - 4"	98' - 0"	99' - 4"	F
C-1	16" x 18"	1' - 4"	98' - 0"	99' - 4"	B
C-5	18" x 18"	1' - 0"	98' - 4"	99' - 4"	A
C-6	18" x 18"	1' - 8"	97' - 8"	99' - 4"	A
C-7	16" x 18"	1' - 4"	98' - 0"	99' - 4"	F
D-1	16" x 18"	1' - 4"	98' - 0"	99' - 4"	B
E-5	18" x 18"	1' - 4"	98' - 0"	99' - 4"	A
E-5.6	18" x 18"	1' - 4"	98' - 0"	99' - 4"	A
E-6	18" x 18"	3' - 3"	96' - 1"	99' - 4"	A
E-7	16" x 18"	2' - 4"	97' - 0"	99' - 4"	F
F-1	18" x 18"	1' - 4"	98' - 0"	99' - 4"	C
F-2	16" x 18"	1' - 4"	98' - 0"	99' - 4"	F
F-3	16" x 18"	1' - 4"	98' - 0"	99' - 4"	F
F-7	16" x 18"	2' - 4"	97' - 0"	99' - 4"	F
G-4	16" x 18"	1' - 4"	98' - 0"	99' - 4"	F
G-6	18" x 18"	1' - 4"	98' - 0"	99' - 4"	G
G-7	16" x 18"	1' - 4"	98' - 0"	99' - 4"	F
H-4	16" x 18"	1' - 4"	98' - 0"	99' - 4"	F
H-7	16" x 18"	1' - 4"	98' - 0"	99' - 4"	F
J-4	18" x 18"	1' - 4"	98' - 0"	99' - 4"	D
J-5	16" x 18"	1' - 4"	98' - 0"	99' - 4"	F
J-6	16" x 18"	1' - 4"	98' - 0"	99' - 4"	F
J-7	18" x 18"	1' - 4"	98' - 0"	99' - 4"	D



FOUNDATION PLAN

1/8" = 1'-0"

SEE SHEET S000 FOR GENERAL FOUNDATION NOTES AND STRUCTURAL DESIGN LOADS

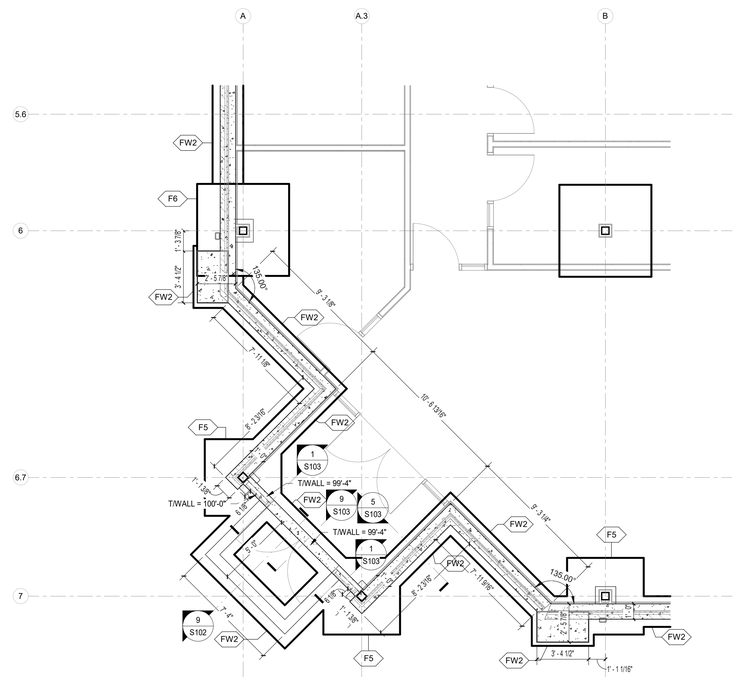
FOUNDATION NOTES: (Apply to S101 ONLY)

1.FINISHED FLOOR ELEVATION TO BE 100'-0" = 887.00' USGS EL (UNO). ALL SLAB ON GRADE ELEVATIONS AND FRAMING ELEVATIONS SHALL BE WORKED FROM THIS ELEVATION.

2. TYPICAL EXTERIOR WALL FOOTINGS TO BE 'FW2' (UNO)
TYPICAL BOTTOM OF EXTERIOR FOOTING ELEVATION (B/FTG EL) TO BE 97' -0" (UNO).

3. TYPICAL BOTTOM OF INTERIOR FOOTING ELEVATION (B/FTG EL) TO BE 98' -4" (UNO).

4.TYPICAL COLUMN TO BE HSS6x6x3/8 (UNO).



2 S101 VESTIBULE FOUNDATION PLAN

1/4" = 1'-0"

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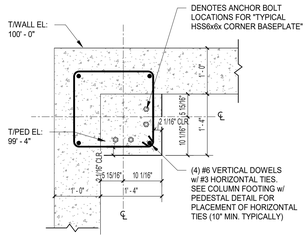
#	DATE	DESCRIPTION
	01-09-26	80% Progress Set
	01-30-26	Permit Issue

PROJECT #: 25109

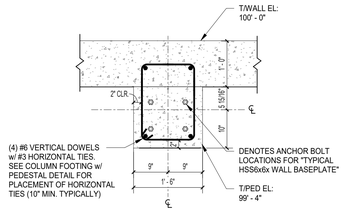
DRAWN: Author **CHECKED:** Checker

FOUNDATION PLAN

S101



2 S102 PEDESTAL A
3/4" = 1'-0"



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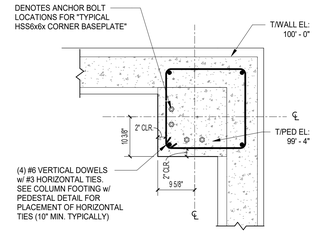

4 S102 PEDESTAL C
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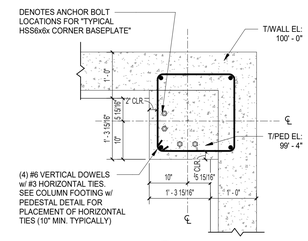

5 S102 PEDESTAL D
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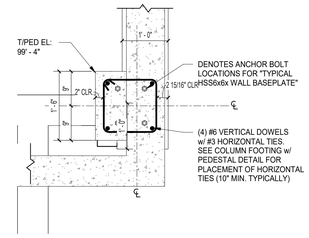

6 S102 PEDESTAL E
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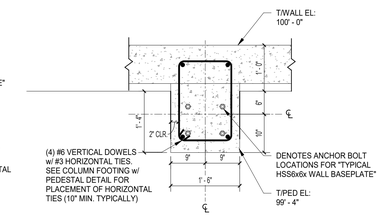

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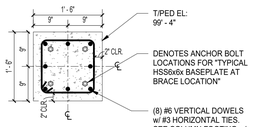
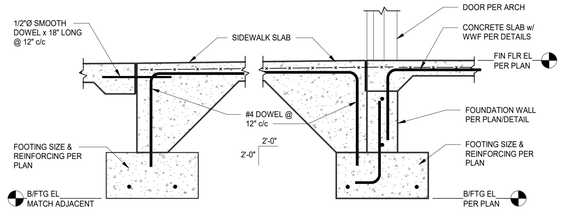
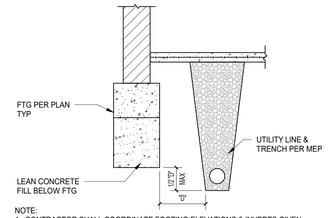
3/4" = 1'-0"



8 S102 PEDESTAL G
3/4" = 1'-0"

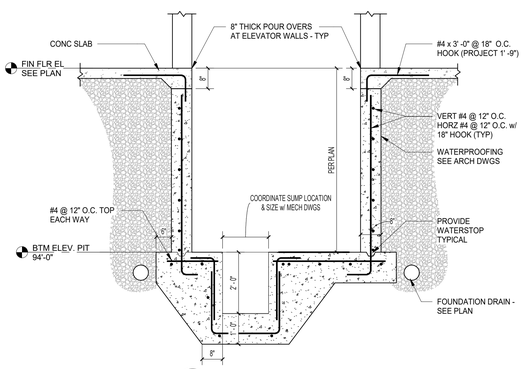


9 S102 FROST WALL FOOTING TYP.
3/4" = 1'-0"

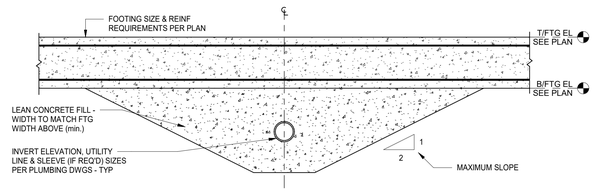


NOTE:
1. CONTRACTOR SHALL COORDINATE FOOTING ELEVATIONS & INVERTS GIVEN ON DRAWINGS w/ MEP DRAWINGS FOR CONFORMITY TO THIS REQUIREMENT. REPORT ANY DISCREPANCIES TO ARCH PRIOR TO POURING FOOTINGS.
2. PROVIDE LEAN CONCRETE BACKFILL FROM BOTTOM OF FOOTING ELEVATION SHOWN ON PLANS TO TYPICAL BOTTOM OF FOOTING ELEVATION.
3. WIDTH OF LEAN CONCRETE FILL TO MATCH WIDTH OF FOOTING ABOVE - TYP

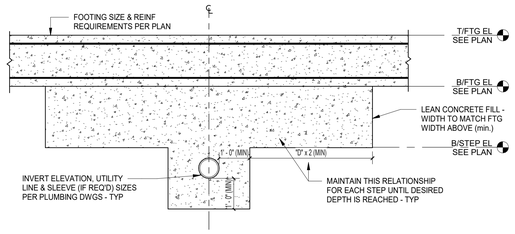
RELATION OF UTILITY TRENCH PARALLEL TO FOUNDATIONS
(LEAN CONCRETE FILL OPTION)
SCALE : 3/8" = 1' - 0"



1 S102 Elevator Pit w/ Formed Sump Pit
1/2" = 1'-0"



Drop Ftg Sloped @ Utility line
1/2" = 1'-0"



Drop Ftg Steps @ Utility line
1/2" = 1'-0"

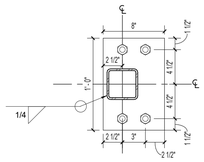
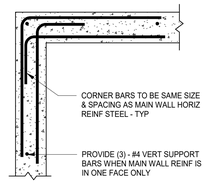
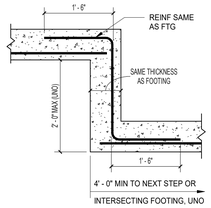


PLATE : 3/4" x 8" x 1'-0"
(4) - 1" Ø HOLES FOR 3/4" ANCHOR BOLTS ON 1" NON-SHRINK, NON-METALLIC GROUT

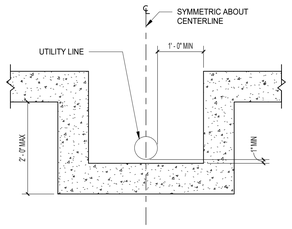
TYPICAL HSS4x4x WALL BASEPLATE
SCALE : 1 1/2" = 1' - 0"



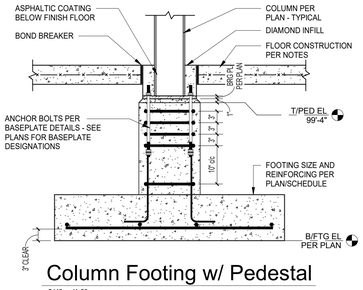
Wall/GB Corner
3/4" = 1'-0"



Wall/GB Step Footing
3/4" = 1'-0"



Drop Ftg @ Utility Line
3/4" = 1'-0"



Column Footing w/ Pedestal
3/4" = 1'-0"

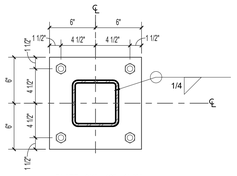
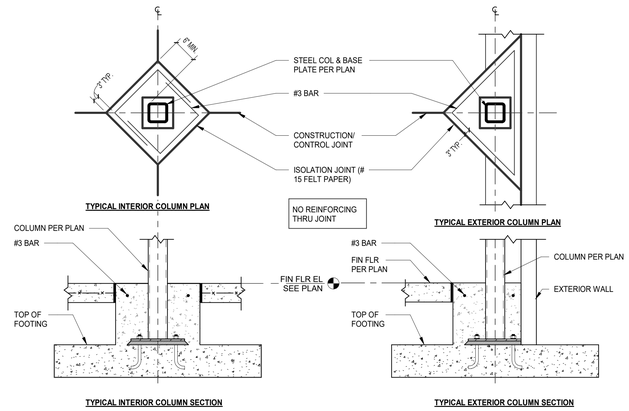
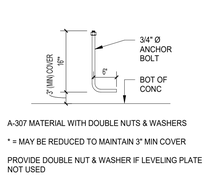


PLATE : 3/4" x 12" x 0'-12"
(4) - 1" Ø HOLES FOR 3/4" ANCHOR BOLTS ON 1" NON-SHRINK, NON-METALLIC GROUT HSS 6x6x COLUMN

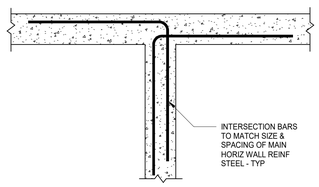
TYPICAL HSS6x6x BASEPLATE
SCALE : 1 1/2" = 1' - 0"



Column Isolation Joints
3/4" = 1'-0"



Anchor Bolt
3/4" = 1'-0"



Wall/GB Intersection
3/4" = 1'-0"

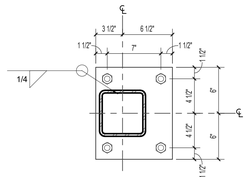


PLATE : 3/4" x 10" x 1'-0"
(4) - 1" Ø HOLES FOR 3/4" ANCHOR BOLTS ON 1" NON-SHRINK, NON-METALLIC GROUT

TYPICAL HSS6x6x WALL BASEPLATE
SCALE : 1 1/2" = 1' - 0"

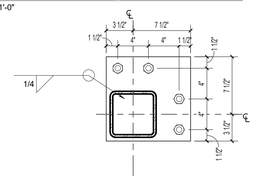


PLATE : 3/4" x 11" x 0'-11"
(4) - 1" Ø HOLES FOR 3/4" ANCHOR BOLTS ON 1" NON-SHRINK, NON-METALLIC GROUT

TYPICAL HSS6x6x CORNER BASEPLATE
SCALE : 1 1/2" = 1' - 0"

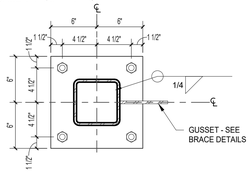


PLATE : 3/4" x 12" x 0'-12"
(4) - 1 1/4" Ø HOLES FOR 1" ANCHOR BOLTS ON 1" NON-SHRINK, NON-METALLIC GROUT

TYPICAL HSS6x6x BASEPLATE AT BRACE LOCATIONS
SCALE : 1 1/2" = 1' - 0"

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1048 CONSIDINE AVE.
CINCINNATI, OHIO 45205

CERTIFICATION

REVISIONS

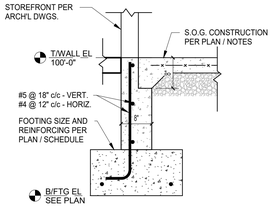
#	DATE	DESCRIPTION
	01-09-26	80% Progress Set
	01-30-26	Permit Issue

PROJECT #: 25109

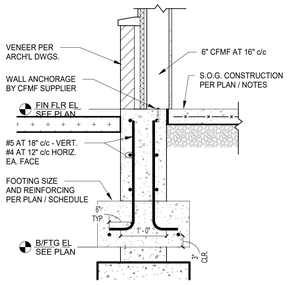
DRAWN: Author **CHECKED:** Checker

TYPICAL FOUNDATION DETAILS

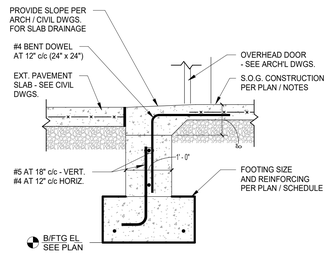
S102



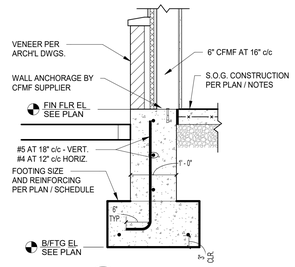
1 / S103 SECTION
3/4" = 1'-0"



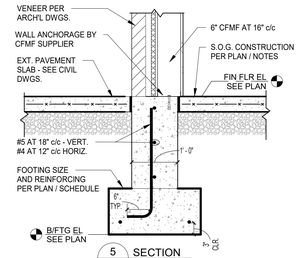
2 / S103 STUD WALL TYP.
3/4" = 1'-0"



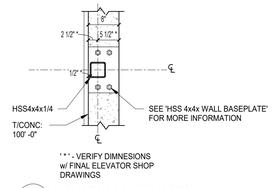
3 / S103 SECTION AT OVERHEAD DOOR
3/4" = 1'-0"



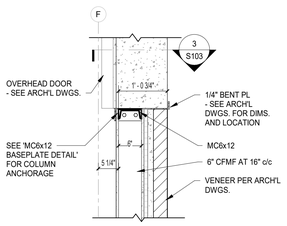
4 / S103 SECTION
3/4" = 1'-0"



5 / S103 SECTION
3/4" = 1'-0"



6 / S103 ELEVATOR COLUMN DETAIL
3/4" = 1'-0"



7 / S103 DETAIL AT OVERHEAD DOOR
3/4" = 1'-0"

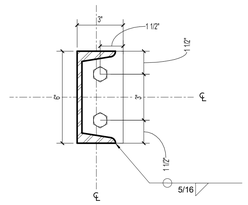
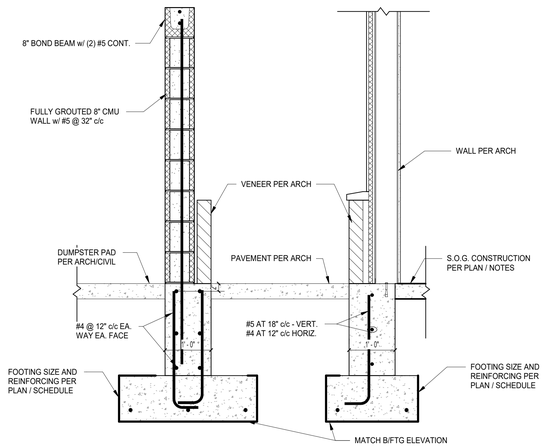


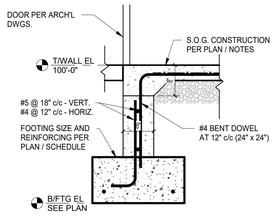
PLATE : 3/4" x 3" x 0'-6"
(2) - 5/8" Ø HOLES FOR 1/2" Ø
EXPANSION ANCHORS (2 1/2" MIN. EMBED.)

MC6x12 BASEPLATE DETAIL

SCALE : 3" = 1' - 0"



8 / S103 SECTION
3/4" = 1'-0"



9 / S103 SECTION
3/4" = 1'-0"

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1048 CONSIDINE AVE.
CINCINNATI, OHIO 45205

CERTIFICATION

STATE OF OHIO
01-30-2026
MICHAEL A. FRANK
E-49575
REGISTERED
PROFESSIONAL ENGINEER

REVISIONS

#	DATE	DESCRIPTION
	01-09-26	80% Progress Set
	01-30-26	Permit Issue

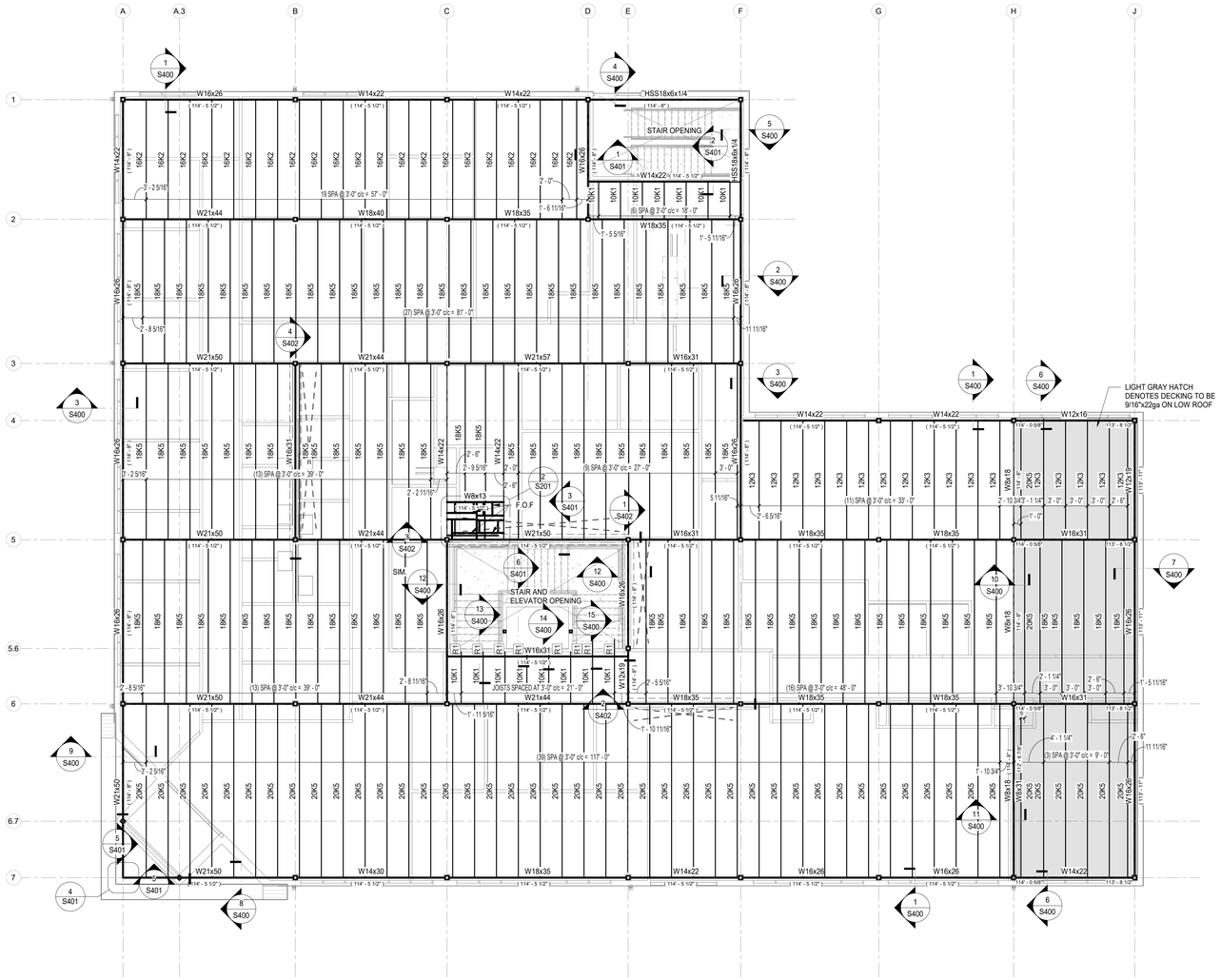
PROJECT #: 25109

DRAWN: Author **CHECKED:** Checker

FOUNDATION SECTIONS

S103

NOTE: CFMF DESIGN (TRUSSES, WALLS, ETC.) TO BE PERFORMED BY SUPPLIER & SHOP DRAWINGS / CALCULATIONS ARE TO BE SEALED BY A PROFESSIONAL ENGINEER LICENSED IN OHIO AND SUBMITTED FOR REVIEW



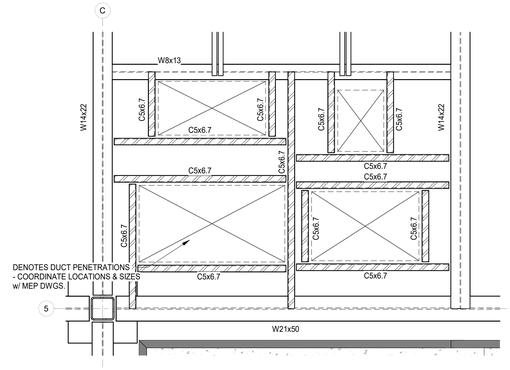
SECOND FLOOR FRAMING PLAN

1/8" = 1'-0"

SEE SHEET S000 FOR GENERAL FLOOR FRAMING NOTES AND STRUCTURAL DESIGN LOADS

FLOOR FRAMING NOTES (Apply to Sheet S201 ONLY)

1. FINISHED FLOOR ELEVATION (FIN. FLR. EL.) TO BE **115'-0"**
2. CONCRETE SLAB TO BE 4" SLAB ON 9/16x26ga METAL DECK (TOTAL THICKNESS TO BE 4" - UNO)
3. - DENOTES VERTICAL 'X' BRACE LOCATIONS
4. PROVIDE FLOOR OPENING FRAME (F.O.F.) AT ALL FLOOR OPENINGS - COORDINATE QUANTITIES, SIZES, AND LOCATIONS w/ MEP & ARCH. REFER TO TYPICAL OPENING FRAME DETAIL FOR ADDITIONAL INFORMATION.
5. X# ##K# X# - DENOTES JOIST EXTENSION TYPE COORDINATE w/ PLAN AND SECTIONS FOR ENTENSION LENGTHS



2 S201 PARTIAL FLOOR FRAMING PLAN AT DUCT PENETRATIONS
3/4" = 1'-0"

= 3/8"x6" VERTICAL PLATE POUR STOP - WELD TO CHANNEL WEB

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E-49375
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PROFESSIONAL ENGINEER

REVISIONS

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PROJECT #: 25109

DRAWN: Author **CHECKED:** Checker

SECOND FLOOR FRAMING PLAN

S201

NOTE: CFMF DESIGN (TRUSSES, WALLS, ETC.) TO BE PERFORMED BY SUPPLIER & SHOP DRAWINGS / CALCULATIONS ARE TO BE SEALED BY A PROFESSIONAL ENGINEER LICENSED IN OHIO AND SUBMITTED FOR REVIEW

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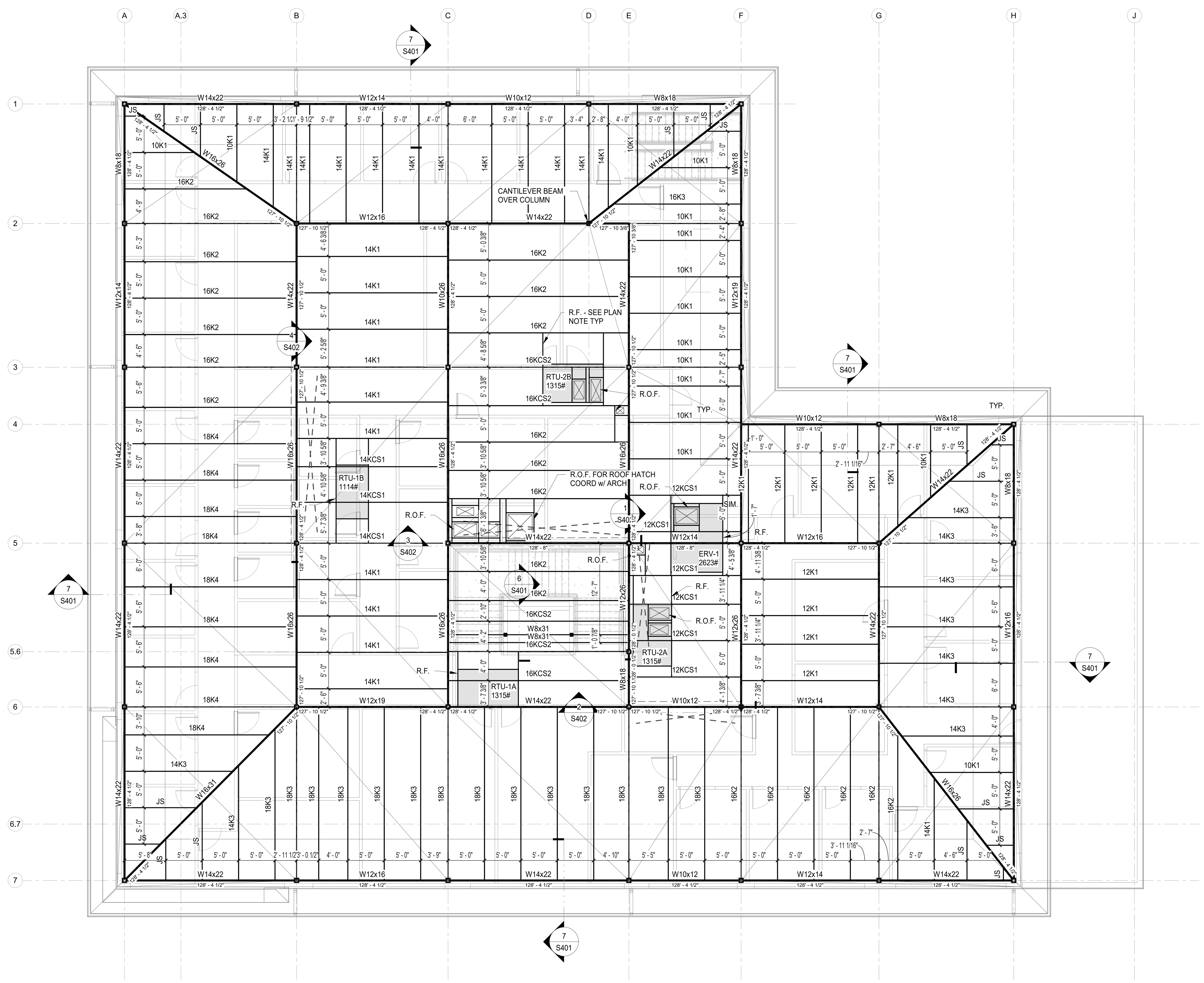

ROOF FRAMING PLAN

1/8" = 1'-0"

SEE SHEET S000 FOR GENERAL ROOF FRAMING NOTES AND STRUCTURAL DESIGN LOADS

ROOF FRAMING NOTES (Apply to Sheet S301 ONLY)

1. PROVIDE ROOF OPENING FRAME (R.O.F.) AT ALL ROOF OPENINGS - COORDINATE QUANTITIES, SIZES, AND LOCATIONS w/ MEP & ARCH. REFER TO TYPICAL OPENING FRAME DETAIL FOR ADDITIONAL INFORMATION.
2. - DENOTES VERTICAL 'X' BRACE LOCATIONS
3. T/STEEL EL TO BE 128'-4 1/2" (U.N.O.)
4. PROVIDE L 6 x 3 1/2 x 3/8 UNDER UNIT CURBS AS INDICATED ON PLANS AND NOTES BY **'RF'**. COORDINATE QUANTITIES AND LOCATIONS w/ MEP DRAWINGS.

CERTIFICATION

STATE OF OHIO
01.30.2026
MICHAEL A FRANK
E-49375
REGISTERED
PROFESSIONAL ENGINEER

REVISIONS

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	01-30-26	Permit Issue

PROJECT #: 25109
DRAWN: Author **CHECKED:** Checker

ROOF FRAMING PLAN

S301

NOTE: CFMF DESIGN (TRUSSES, WALLS, ETC.) TO BE PERFORMED BY SUPPLIER & SHOP DRAWINGS / CALCULATIONS ARE TO BE SEALED BY A PROFESSIONAL ENGINEER LICENSED IN OHIO AND SUBMITTED FOR REVIEW

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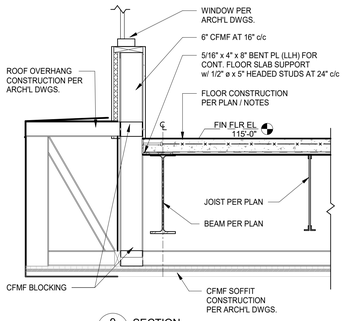
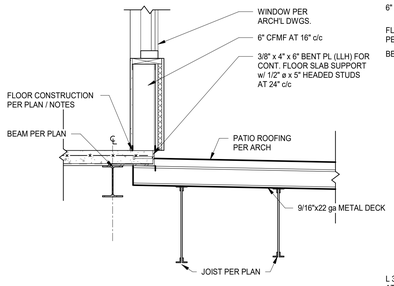
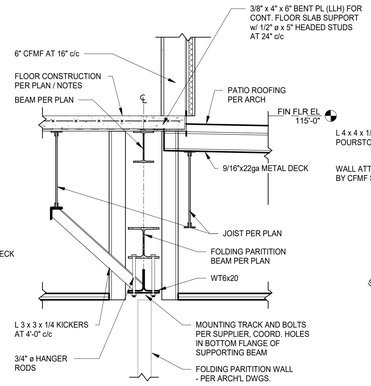


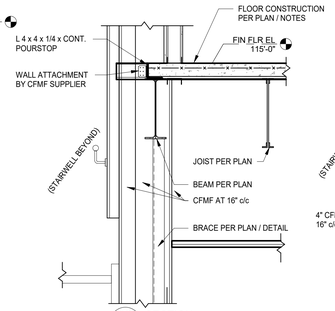
9 SECTION S400 3/4" = 1'-0"



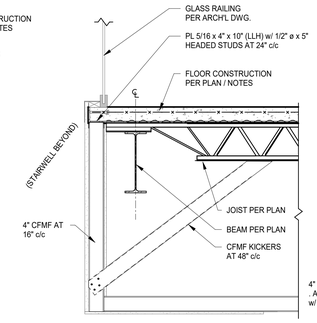
10 SECTION S400 3/4" = 1'-0"



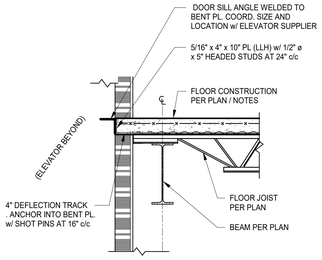
11 SECTION S400 3/4" = 1'-0"



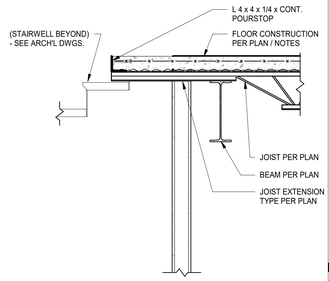
12 SECTION S400 3/4" = 1'-0"



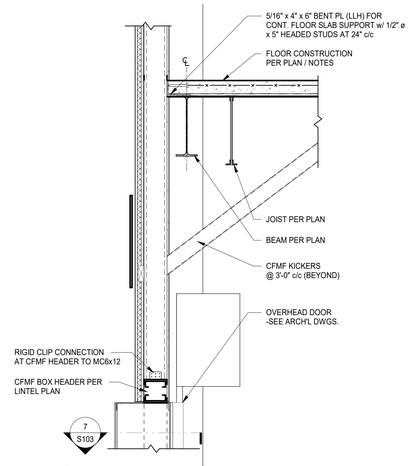
13 SECTION S400 3/4" = 1'-0"



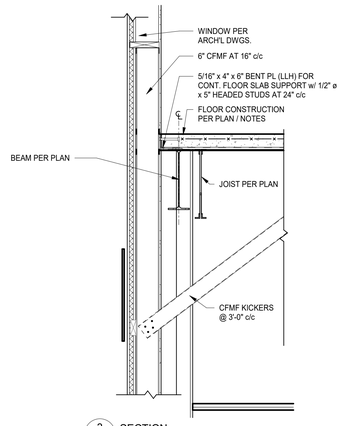
14 SECTION S400 3/4" = 1'-0"



15 SECTION S400 3/4" = 1'-0"



2 SECTION AT OVERHEAD DOOR S400 3/4" = 1'-0"



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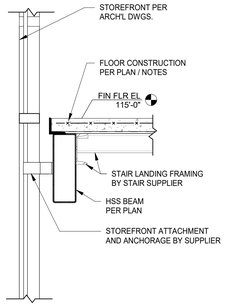
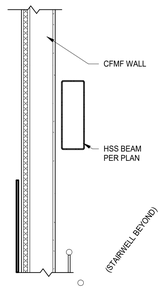


4 SECTION S400 3/4" = 1'-0"



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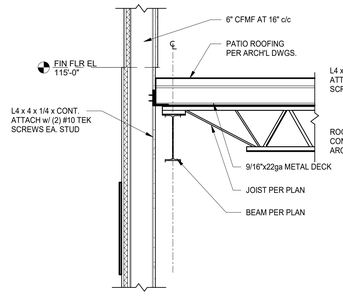
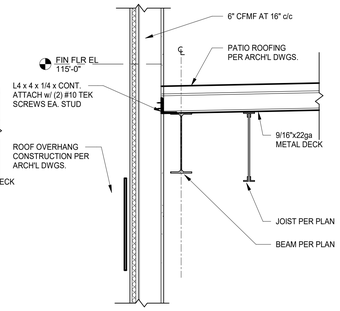
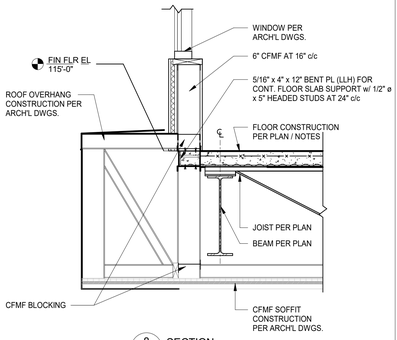


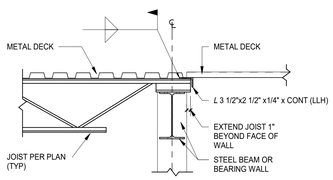
6 SECTION S400 3/4" = 1'-0"



7 SECTION S400 3/4" = 1'-0"

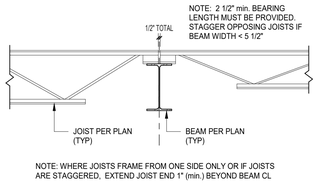


8 SECTION S400 3/4" = 1'-0"



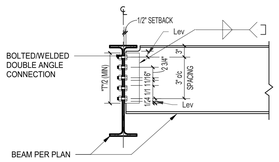
Deck Pan Direction Change

3/4" = 1'-0"



Joists on Beam

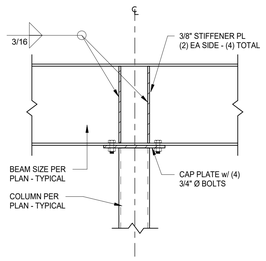
3/4" = 1'-0"



NOTES:
1. CONNECTION TO DEVELOP UNIFORM LOAD CAPACITY OF BEAM (U.N.O.)
2. Leh & Lev PER AISC 360 REQUIREMENTS (TYP)

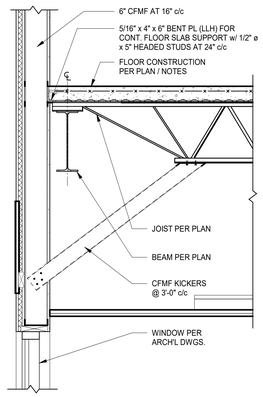
Beam to Beam Connection

3/4" = 1'-0"

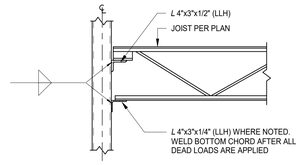


Beam Over Column

1" = 1'-0"

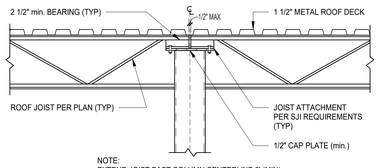


1 SECTION S400 3/4" = 1'-0"



TYPICAL JOIST BEARING ON COLUMN

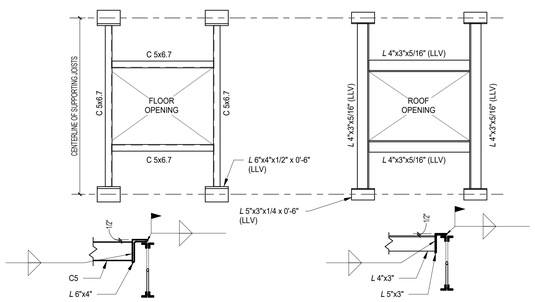
SCALE : 3/4" = 1' - 0"



NOTE:
EXTEND JOIST PAST COLUMN CENTERLINE 2' (MIN) IF JOIST FRAMES INTO ONE SIDE ONLY

TYPICAL ROOF JOIST TO HSS COLUMN CONNECTION

SCALE : 3/4" = 1' - 0"



ROOF OPENING NOTES:

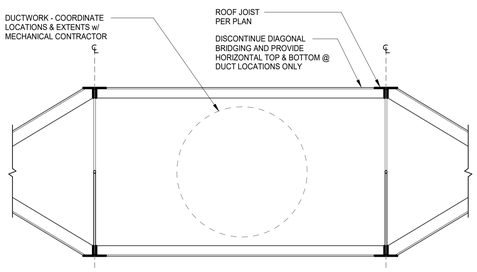
1.) REINFORCE DECK AROUND OPENINGS LESS THAN 12" IN ANY DIRECTION WITH MINIMUM TWENTY (20) GAUGE GALV STEEL SHEET AT LEAST 12 INCHES WIDER AND LONGER THAN THE OPENING. PLACE OVER THE OPENING AND FASTEN TO THE TOP OF THE DECK AT EACH CORNER AND 6 INCHES C/C ALONG EACH SIDE.

2.) WHERE DECK OPENINGS ARE FROM 15 TO 30 INCHES WIDE, AND ARE NOT SUPPORTED BY STRUCTURAL MEMBERS, PROVIDE 1x1x1/4 INCH STEEL ANGLE TO THE UNDERSIDE OF THE DECK AT RIGHT ANGLES TO RIBS. EXTEND ANGLE TO THREE (3) RIBS BEYOND EACH SIDE OF THE OPENINGS, WELD TO BOTTOM OF EACH RIB. REINFORCE THE OPENING SIDE PARALLEL TO RIBS WITH EACH MINIMUM TWENTY (20) GAUGE GALV STEEL SHEET 12 INCHES WIDE, WELDED AT EACH CORNER AND 6 INCHES C/C ALONG EACH SIDE. SIDE REINFORCING MAY BE OMITTED WHEN A ROOF SUMP PAN IS TO BE INSTALLED OVER THE OPENING.

3.) ALL OTHER OPENINGS SHALL BE FRAMED AS SHOWN ON SHEET.

Floor/Roof Opening Frames

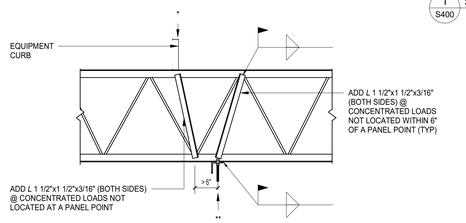
3/4" = 1'-0"



HORIZONTAL BRIDGING MAY NOT OCCUR IN ADJACENT BAYS

Joist Bridging at Duct - Horizontal

3/4" = 1'-0"

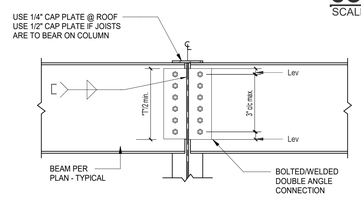


* - FOR CONCENTRATED LOADS ON THE TOP CHORD > 100#
** - FOR CONCENTRATED LOADS ON THE BOTTOM CHORD > 100#

NOTE: JOIST MANUFACTURER MUST DESIGN CHORDS FOR THESE CONCENTRATED LOADS (WITHOUT SPECIAL WEB REINFORCEMENT)

Joist Concentrated Load Reinf (NOT at Panel Point)

3/4" = 1'-0"



NOTES:
1. CONNECTION TO DEVELOP UNIFORM LOAD CAPACITY OF BEAM (U.N.O.)
2. Leh & Lev PER AISC 360 REQUIREMENTS (TYP)

Beam to Wide Flange Column Connection

3/4" = 1'-0"

SANTA MARIA COMMUNITY SERVICES

1048 CONSIDINE AVE.
CINCINNATI, OHIO 45205

CERTIFICATION

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MICHAEL A. FRANK
E-40575
REGISTERED
PROFESSIONAL ENGINEER
04-24-2026

REVISIONS

#	DATE	DESCRIPTION
	01-09-26	80% Progress Set
	01-30-26	Permit Issue

PROJECT #: 25109

DRAWN: Author **CHECKED:** Checker

TYPICAL FRAMING DETAILS

S400

NOTE: CFMF DESIGN (TRUSSES, WALLS, ETC.) TO BE PERFORMED BY SUPPLIER & SHOP DRAWINGS / CALCULATIONS ARE TO BE SEALED BY A PROFESSIONAL ENGINEER LICENSED IN OHIO AND SUBMITTED FOR REVIEW

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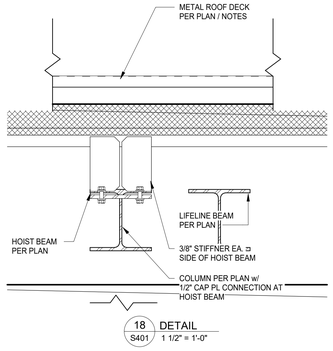
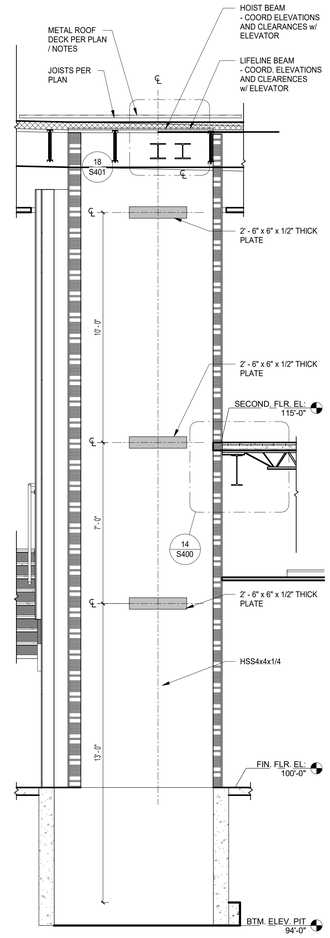
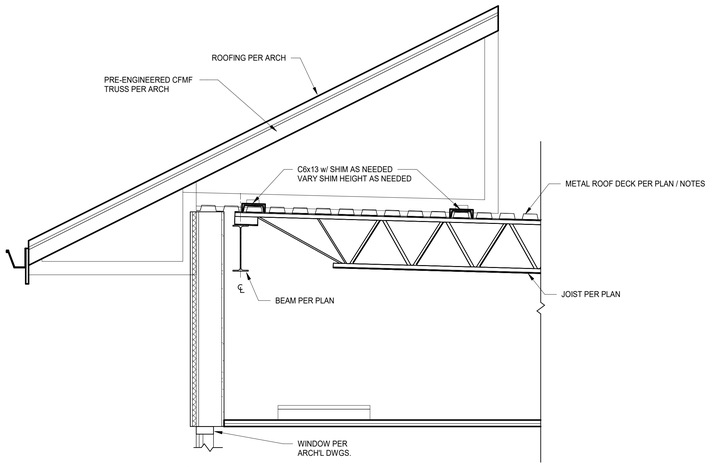


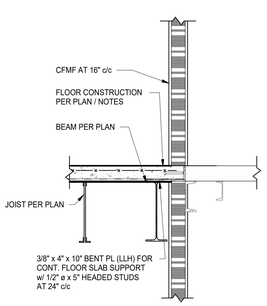
18 / S401 DETAIL
1 1/2" = 1'-0"



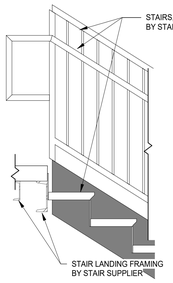
6 / S401 SECTION
3/8" = 1'-0"

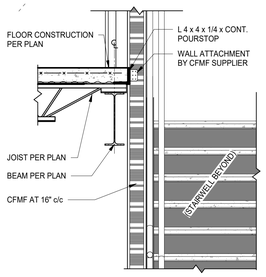


7 / S401 SECTION
3/4" = 1'-0"

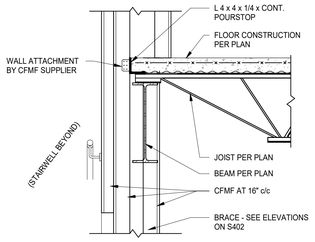


1 / S401 SECTION
3/4" = 1'-0"

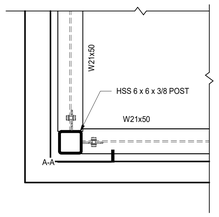




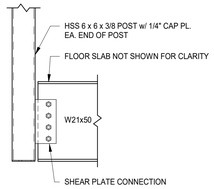
2 / S401 SECTION
3/4" = 1'-0"



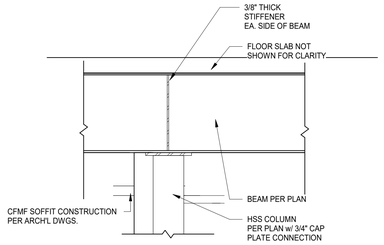
3 / S401 SECTION
3/4" = 1'-0"



4 / S401 DETAIL
3/4" = 1'-0"



A-A



5 / S401 SECTION
3/4" = 1'-0"

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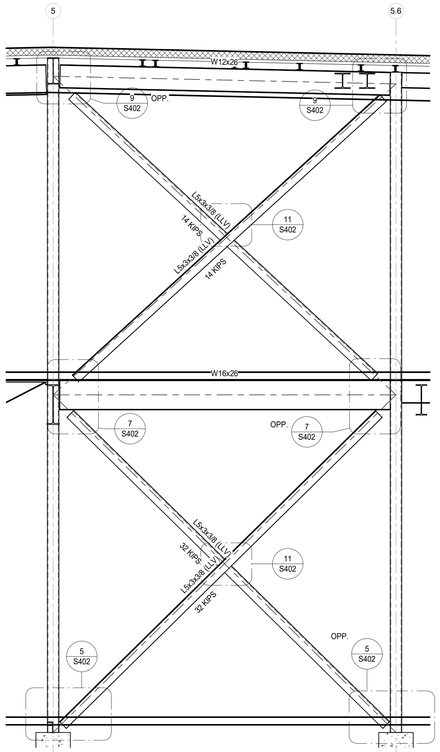
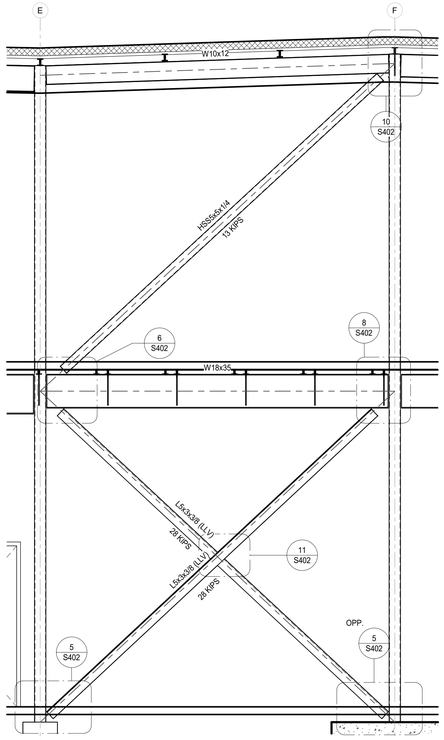
FRAMING SECTIONS

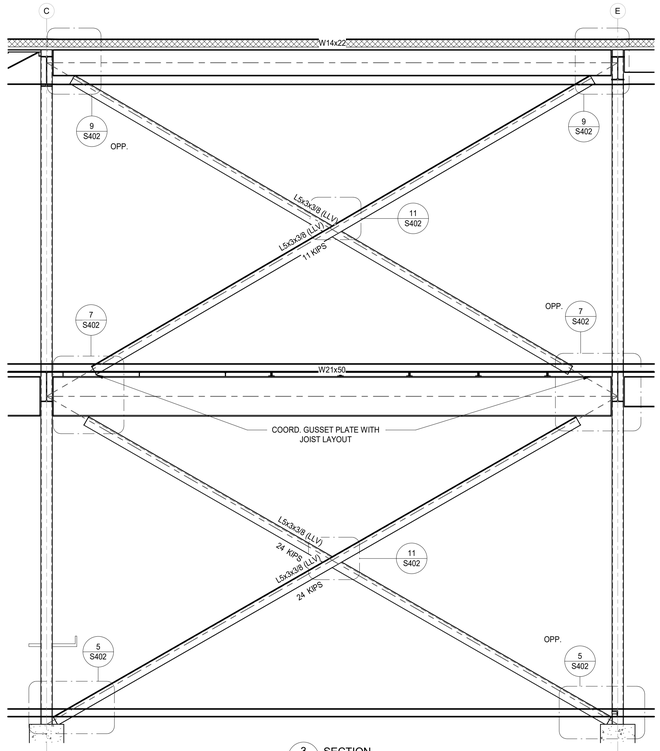
S401



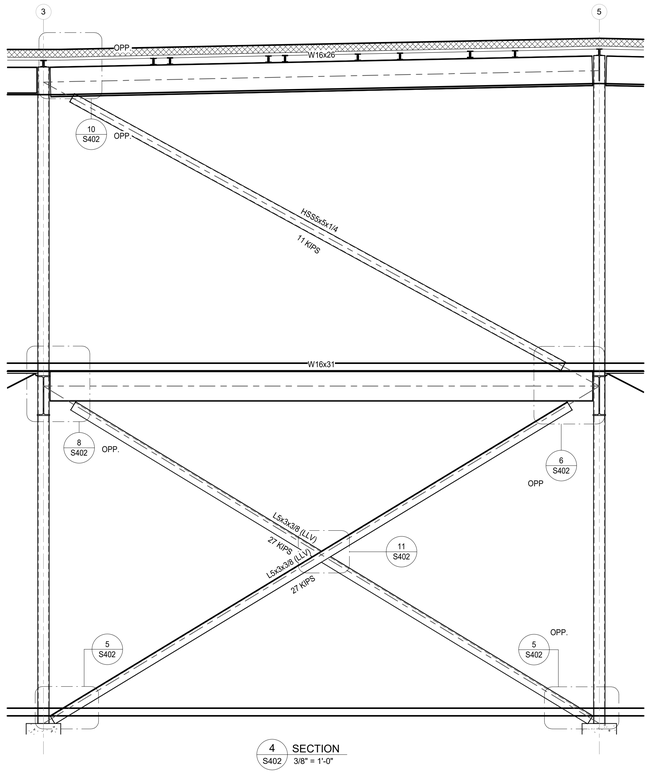
1 SECTION
S402 3/8" = 1'-0"



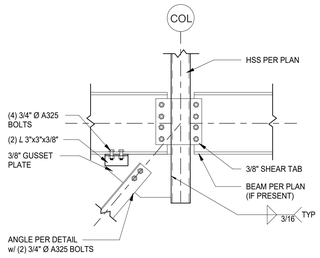
2 SECTION
S402 3/8" = 1'-0"



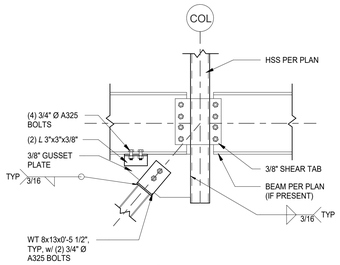
3 SECTION
S402 3/8" = 1'-0"



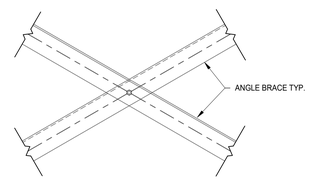
4 SECTION
S402 3/8" = 1'-0"



9 ANGLE BRACE AT BEAM
S402 3/4" = 1'-0"

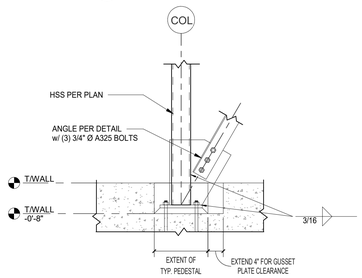


10 HSS BRACE AT BEAM
S402 3/4" = 1'-0"

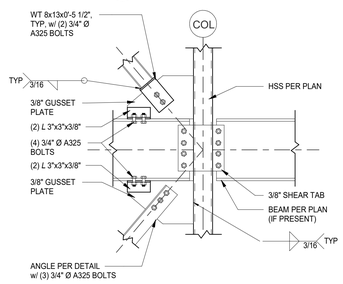


NOTE: CONNECTION SHALL BE DESIGNED
BY FABRICATOR FOR BRACE FORCES
SHOWN ON ELEVATION

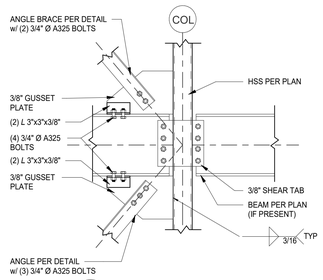
11 TYPICAL BRACE CONNECTION
S402 3/4" = 1'-0"



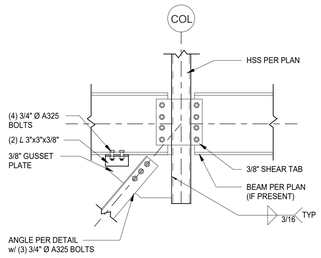
5 ANGLE BRACE AT FDN
S402 3/4" = 1'-0"



6 ANGLE & HSS BRACE AT BEAM
S402 3/4" = 1'-0"



7 ANGLE BRACE AT BEAM
S402 3/4" = 1'-0"



8 ANGLE BRACE AT BEAM
S402 3/4" = 1'-0"

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BRACING SECTIONS

S402

PLUMBING ABBREVIATIONS:

AD	AREA DRAIN
BFP	BACKFLOW PREVENTER
BP	BOOSTER PUMP
BTUH	BTU(S) PER HOUR
BV	BALANCING VALVE
CO2	CARBON DIOXIDE
CPVC	CHLORINATED PVC
CW	COLD WATER
CWFU	COLD WATER FIXTURE UNITS
CWR	COLD WATER RETURN
DF	DRINKING FOUNTAIN
DFU	DRAINAGE FIXTURE UNITS
DIA	DIAMETER
DS	DOWNSPOUT
DW	DISH WASHER
ES	EMERGENCY SHOWER
EVAC	WASTE ANESTHETIC GAS DISPOSAL
EW	EMERGENCY EYE WASH
EWH	ELECTRIC WATER HEATER
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FRS	FLUSHING RIM SINK
FS	FLOOR SINK
GWH	GAS WATER HEATER
HB	HOSE BIBB
HD	HUB DRAIN
HS	HAND SINK
HW	HOT WATER
HWFU	HOT WATER FIXTURE UNITS
HWR	HOT WATER RETURN
IWP	INDIRECT WASTE PIPE
KS	KITCHEN SINK
LA	LAB AIR
LAV	LAVATORY
LV	LABATORY VACUUM
MB	MOP BASIN
MBH	BTU PER HOUR (THOUSAND)
MV	MIXING VALVE
N	NITROGEN
NCP	NITROGEN CONTROL PANEL
ND	NOZZLE DRAIN
NG	NATURAL GAS
NO	NITROUS OXIDE
NPT	NATIONAL PIPE THREAD TAPERED
O	OXYGEN
PEX	CROSS LINKED POLYETHYLENE
POC	POINT OF CONNECTION
PSI	POUNDS PER SQUARE INCH
PSIG	PSI GAUGE
PVC	POLYVINYL CHLORIDE
PW	PURE WATER
RD	ROOF DRAIN
RDO	ROOF DRAIN OVERFLOW
S	SINK
SD	SHOWER DRAIN
SE	SEWAGE EJECTOR
SFU	SUPPLY FIXTURE UNIT
SH	SHOWER
SP	SUMP PUMP
SPR	STANDPIPE RECEPTOR
SS	SERVICE SINK
TD	TRENCH DRAIN
TEMP	TEMPERATURE
TMV	THERMOSTATIC MIXING VALVE
UR	URINAL
VA	VACUUM
W	WASTE PIPE
WC	WATER CLOSET
WCO	WALL CLEANOUT
WH	WATER HEATER
WS	WATER SOFTENER
YCO	YARD CLEANOUT

PLUMBING FITTINGS:

- 45° ELBOW
- CAP
- 90° ELBOW
- ELBOW DOWN
- ELBOW UP
- TEE
- TEE DOWN
- TEE UP
- LATERAL
- UNION
- FLEXIBLE CONNECTION
- PIPE CONTINUATION
- CLEANOUT (CO)
- FLOOR CLEANOUT (FCO)
- WALL CLEANOUT (WCO)
- FLOOR SINK
- XX DRAIN
  - XX DENOTES THE FOLLOWING
  - (AD) AREA DRAIN
  - (FD) FLOOR DRAIN
  - (HD) HUB DRAIN
  - (RD) ROOF DRAIN

PIPE SYSTEM LINETYPES:

	PIPING OR EQUIPMENT TO BE REMOVED
	PIPING OR EQUIPMENT TO REMAIN
IWP	INDIRECT WASTE PIPE (IWP)
GRS	GREY WASTE (GRS)
GR	GREASE WASTE (GR)
CV	CLEAR WATER VENT (CV)
AV	ACID VENT (AV)
AW	ACID WASTE (AW)
DT	SUB-SOIL DRAINAGE (DT)
IRRG	IRRIGATION (IRRIG)
GRW	GREY WATER (GRW)
CA	COMPRESSED AIR (CA)
CW(CITY)	CITY COLD WATER (CW(CITY))
	COLD WATER DOMESTIC (CW)
CWR	COLD WATER RETURN (CWR)
SCW	SOFT COLD WATER (SCW)
GW	GARAGE WASTE (GW)
	HOT WATER DOMESTIC (HW)
	HOT WATER DOMESTIC RETURN (HWR)
NG	NATURAL GAS (NG)
NPCW	NON-POTABLE COLD WATER (NPCW)
OV	OIL VENT (OV)
PD	PUMP DISCHARGE (PD)
PW	PURE WATER (PW)
SAN	SANITARY (SAN)
ST	STORM (ST)
STO	STORM OVERFLOW (STO)
	UNDERGROUND PIPING
V	VENT (V)

GENERAL ABBREVIATIONS:

A/E	ARCHITECT/ENGINEER
ABV	ABOVE
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
ALT	ALTERNATE
APPROX	APPROXIMATELY
ARCH	ARCHITECT
AVG	AVERAGE
BFG	BELOW FINAL GRADE
BLDG	BUILDING
CLG	CEILING
DEG-F, °F	DEGREES FAHRENHEIT
DIR	DIRECT
DISC	DISCONNECT
DN	DOWN
EC	ELECTRICAL CONTRACTOR
ELEV	ELEVATION REFERENCE
EM	EMERGENCY
EP	EXPLOSION PROOF
EWC	ELECTRIC WATER COOLER
F	FLUSH
FBO	FURNISHED BY OTHERS
FIXT	FIXTURE
FLA	FULL LOAD AMPS
FLR	FLOOR
FP	FIRE PROTECTION
FS	FLOW SWITCH
GC	GENERAL CONTRACTOR
GRD	GROUND
GYP	GYPSUM BOARD
HVAC	HEATING & VENTILATING - AIR CONDITIONING
HVC	HEATING VENTILATING CONTRACTOR
HW	HEAVYWALL
ID	INDIRECT
IE	INVERT ELEVATION
IL	INTERLOCK
IU	IN UNIT
J-BOX	JUNCTION BOX
LG	LAY-IN GRID
LTG	LIGHTING
LV	LOW VOLTAGE
LVT	LINE VOLTAGE THERMOSTAT
MAX	MAXIMUM
MIN	MINIMUM
MISC	MISCELLANEOUS
MTD	MOUNTED
N/A	NOT APPLICABLE
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
PC	PLUMBING CONTRACTOR
PLBG	PLUMBING CONTRACTOR
RM	ROOM
RQD	REQUIRED
SF	SQUARE FEET
SPEC	SPECIFICATION(S)
SURF	SURFACE
TS	TAMPER SWITCH
TYP	TYPICAL
UG	UNDERGROUND
UNO	UNLESS NOTED OTHERWISE

PLUMBING VALVES:

- SOLENOID VALVE
- MODULATING 2-WAY VALVE
- MODULATING 3-WAY VALVE
- BALANCING VALVE
- BALL VALVE
- BUTTERFLY VALVE
- CHECK VALVE
- MIXING VALVE
- FLOAT OPERATED VALVE
- GATE VALVE
- GLOBE VALVE
- PLUG VALVE
- PRESSURE REDUCING VALVE
- SAFETY RELIEF VALVE
- DOUBLE CHECK VALVE ASSEMBLY
- RP REDUCED PRESSURE ZONE VALVE (RPZ)
- DUAL CHECK VALVE WITH INTERMEDIATE ATMOSPHERIC VENT

PLUMBING TAGS:

- MARK / X / X / NUMBER — PLUMBING EQUIPMENT TAG
- RISER / X / NUMBER — RISER TAG
- PIPE SIZE / #4" XX / SYSTEM ABBREVIATION — PIPE DIMENSION TAG
- POINT OF NEW CONNECTION
- POINT OF DISCONNECTION
- VIEW NUMBER / REFERENCE / X | X / SHEET NUMBER — REFERENCE TAG

PLUMBING EQUIPMENT:

- SEWAGE EJECTOR (SE)
- BOOSTER PUMP (BP)
- GAS FIRED WATER HEATER - EXTERNAL STORAGE (GWH)
- GAS FIRED WATER HEATER - INTERNAL STORAGE (GWH)
- ELECTRIC WATER HEATER - INTERNAL STORAGE (EWH)
- GAS FIRED WATER HEATER - TANKLESS (GWH)
- WATER METER
- SEPARATOR/ INTERCEPTOR (SEE SCHEDULE FOR ABBREVIATION)
- RECIRCULATION PUMP
- EXPANSION TANK (ET)
- SUMP PUMP (SP)
- BACK WATER VALVE (BW)

PLUMBING SHEET INDEX:

SHEET NO.	SHEET NAME
P001	PLUMBING LEGEND
P100	FOUNDATION PLAN - PLUMBING
P101	SANITARY AND VENTING - FIRST FLOOR
P102	SANITARY AND VENTING - SECOND FLOOR
P103	PLUMBING ROOF PLAN
P201	DOMESTIC WATER - FIRST FLOOR
P202	DOMESTIC WATER - SECOND FLOOR
P500	PLUMBING ISOMETRIC RISER DIAGRAM
P600	PLUMBING SCHEDULES AND CALCULATIONS
P601	PLUMBING SPECIFICATION

PLUMBING GENERAL NOTES:

1. THESE PLANS ARE DIAGRAMMATIC IN NATURE SINCE THEY REFLECT ONLY THE AVAILABLE INFORMATION OBTAINED FROM SPECIFICATIONS, EXISTING PLANS AND FIELD SURVEYS. THE EXACT LOCATION OF EXISTING PIPING, AND EQUIPMENT MAY DEVIATE FROM THE LOCATION INDICATED ON THESE DRAWINGS. CONTRACTOR SHALL BE PREPARED TO MAKE SOME ALTERATIONS TO SERVICES TO FIT ACTUAL JOB CONDITIONS.
2. PIPING DRAWINGS ARE TO BE CONSIDERED SCHEMATIC AND ARE NOT INTENDED TO INDICATE ALL CHANGES IN DIRECTION. ALL NECESSARY FITTINGS TO BE FURNISHED AND INSTALLED BY CONTRACTOR. PIPE AND FITTINGS MUST BE INSTALLED SO THAT ALL PIPE AND/OR INSULATION COMPLETELY CLEARS ALL NEARBY STRUCTURES, PIPING AND ITEMS BY OTHER CONTRACTORS. ALL PIPE SIZES SHOWN ARE MINIMUMS.
3. COORDINATE THE INSTALLATION OF ALL PIPING, VALVES, AND EQUIPMENT WITH GENERAL CONTRACTOR AND RELATED STRUCTURAL, MECHANICAL, ELECTRICAL AND FIRE PROTECTION CONTRACTORS.
4. ALL FIXTURES AND PIPING SHALL BE SIZED, VENTED, TRAPPED AND INSTALLED IN ACCORDANCE WITH CURRENT PLUMBING CODE.
5. ANY HOLES LEFT IN WALL CONSTRUCTION, DUE TO WORK, SHALL BE PATCHED AND PAINTED BY CONTRACTOR TO MATCH CONSTRUCTED CONDITIONS. COORDINATE FINISH AND MATERIALS WITH ARCHITECT.
6. FURNISH AND INSTALL SUPPLY STOP SHUT-OFF VALVES ON ALL FIXTURE WATER SUPPLY LINES.
7. FURNISH AND INSTALL WATER HAMMER ARRESTORS PER PDI WH201 AND AS INDICATED ON PLANS.
8. INSTALL ALL VALVES IN PLUMBING SYSTEM IN ACCESSIBLE LOCATIONS. IF LOCATION IS NOT READILY ACCESSIBLE, COORDINATE ACCESS PANEL REQUIREMENTS WITH GENERAL CONTRACTOR PRIOR TO CONSTRUCTION.
9. FURNISH AND INSTALL CLEANOUT AT THE BASE, OR NO MORE THAN 4 FT ABOVE FLOOR OF ALL WASTE, SANITARY STACKS AND STORM RISERS.
10. VERIFY THAT ALL VALVES IN THE COLD AND HOT WATER SUPPLY PIPING ARE IN THE FULLY OPEN POSITION. VERIFY ALL BALANCING VALVES IN HOT WATER RETURN PIPING ARE OPEN AND ADJUSTED AS NOTED ON PLANS TO ENSURE PROPER CIRCULATION.
11. FURNISH AND INSTALL EQUIPMENT DRAINS FOR ALL PLUMBING EQUIPMENT (WATER HEATER, KITCHEN EQUIPMENT, ETC.) AND ROUTE TO THE NEAREST FLOOR DRAIN/FLOOR SINK. PROVIDE INDIRECT CONNECTION AT DRAIN AS REQUIRED.
12. ALL PIPING SHALL BE CONCEALED IN CHASE, WALL, CEILING, BELOW FLOOR, ETC. UNLESS OTHERWISE NOTED. PIPING SHOWN OUTSIDE OF WALLS FOR CLARITY ONLY.
13. REFER TO PLUMBING FIXTURE SCHEDULE FOR WASTE, VENT AND SUPPLY CONNECTION SIZES TO INDIVIDUAL FIXTURES.
14. EQUIPMENT AND FIXTURE SYMBOLOGY ON PLANS MAY NOT REFLECT ACTUAL TYPE. REFER TO SPECIFICATIONS FOR FIXTURE OR EQUIPMENT TYPE.
15. FIRE CAULK ALL PIPING PENETRATIONS THROUGH FIRE RATED PARTITIONS TO MAINTAIN FIRE RATING OF PARTITION. FIRESTOP ALL PENETRATIONS THROUGH FIRE-RATED FLOORS AND WALLS CREATED BY NEW WORK WITH "SPECSEAL SSS" OR EQUAL.
16. CAULK ALL PIPING PENETRATIONS THROUGH NON FIRE RATED WALLS TO MINIMIZE SOUND PENETRATION THROUGH WALLS.
17. ALL ITEMS INCLUDED ON THESE DRAWINGS AND THE SPECIFICATIONS SHALL BE INCLUDED IN THE CONTRACTOR'S BID. ANY ITEMS THAT ARE UNCLEAR OR FOUND TO BE INCORRECT BY THE CONTRACTOR SHALL BE BROUGHT, IN WRITING, TO THE ATTENTION OF THE ARCHITECT AND ENGINEER PRIOR TO THE BID DUE DATE.
18. LOCATIONS OF FLOOR DRAINS, FLOOR SINKS, TRENCH DRAINS, ETC. INDICATED ON THESE DRAWINGS ARE CONSIDERED APPROXIMATE. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF FINAL AND EXACT LOCATIONS WITH ALL OTHER TRADES AND EQUIPMENT SUPPLIERS PRIOR TO INSTALLATION. DRAINS, ETC., NOT CORRECTLY LOCATED AS DETERMINED BY THE ARCHITECT/ENGINEER/OWNER, SHALL BE REMOVED AND RELOCATED AT THIS CONTRACTOR'S EXPENSE.
19. AREA ABOVE CEILINGS SERVES AS A RETURN AIR PLENUM. ALL MATERIALS EXPOSED IN THE PLENUM SHALL HAVE A 25/50 SMOKE/FLAME SPREAD RATING. NO PVC PIPING ALLOWED ABOVE CEILING. ALL SANITARY AND VENT PIPING ABOVE CEILING IN RETURN AIR PLENUMS SHALL BE CAST IRON. REFER TO HVAC PLANS FOR RETURN AIR PLENUM LOCATIONS.
20. MAKE ALL FINAL PLUMBING CONNECTIONS TO PLUMBING FIXTURES AND EQUIPMENT NOTED ON PLANS.
21. ALL VTR'S SHALL BE LOCATED A MINIMUM OF 12'-0" FROM AIR INTAKES ON MECHANICAL ROOFTOP EQUIPMENT. COORDINATE WITH ALL OTHER TRADES PRIOR TO INSTALLATION.
22. ALL EXPOSED PLUMBING PIPING IN FINISHED ROOMS, OPEN TO STRUCTURE, SHALL BE PAINTED TO MATCH STRUCTURE. FOLLOW PAINT MANUFACTURER'S INSTRUCTIONS FOR PIPE SURFACE PREPARATION AND PAINT APPLICATION.
23. ALL EXPOSED PLUMBING PIPING IN FINISHED SPACES, LOCATED BELOW 7'-0" HIGH SHALL BE PROVIDED WITH A WHITE PVC JACKET.
24. THE FULL SET OF PROJECT PLANS SHALL BE READ IN CONJUNCTION WITH THE PLUMBING PLANS FOR ADDITIONAL INFORMATION. EACH SUBCONTRACTOR SHALL HAVE THOROUGH KNOWLEDGE OF ALL DRAWINGS AND SPECIFICATIONS. A FAILURE TO ACQUAINT THEMSELVES WITH THIS KNOWLEDGE DOES NOT RELIEVE THE RESPONSIBILITY OF PERFORMING THE WORK PROPERLY. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED BECAUSE OF CONDITIONS THAT OCCUR DUE TO FAILURE TO FAMILIARIZE WORKERS WITH THIS KNOWLEDGE.

GENERAL:

- ## — REFERENCE NOTE SYMBOL
- DETAIL NUMBER / SHEET NUMBER — BUILDING SECTION
- DETAIL NUMBER / SHEET NUMBER — BUILDING ELEVATION
- DETAIL NUMBER / SHEET NUMBER — CALLOUT BOUNDARY
- DETAIL NUMBER / SHEET NUMBER — VIEW REFERENCE CALLOUT
- +X' - X" — MOUNTING HEIGHT DESIGNATION

PLUMBING SPECIALTIES:

- AUTOMATIC AIR VENT
- MANUAL AIR VENT
- PRESSURE GAUGE
- PS — PRESSURE SWITCH
- THERMOMETER
- STRAINER, BLOW DOWN
- STRAINER
- EXPANSION LOOP
- EXPANSION JOINT
- WATER HAMMER ARRESTER
- AQUASTAT
- HOSE BIBB/ WALL HYDRANT
- TRAP PRIMER
- VB — VACUUM BREAKER
- SPV — SPILL PROOF VACUUM BREAKER

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STATE OF OHIO
SCOTT SEVERT STILKEY
E-77795
REGISTERED PROFESSIONAL ENGINEER

REVISIONS

#	DATE	DESCRIPTION
1	01/09/2026	80% PROGRESS SET
2	01/30/2026	PERMIT ISSUE

PROJECT #: 6568

DRAWN: JWG **CHECKED:** KAS

PLUMBING LEGEND

P001

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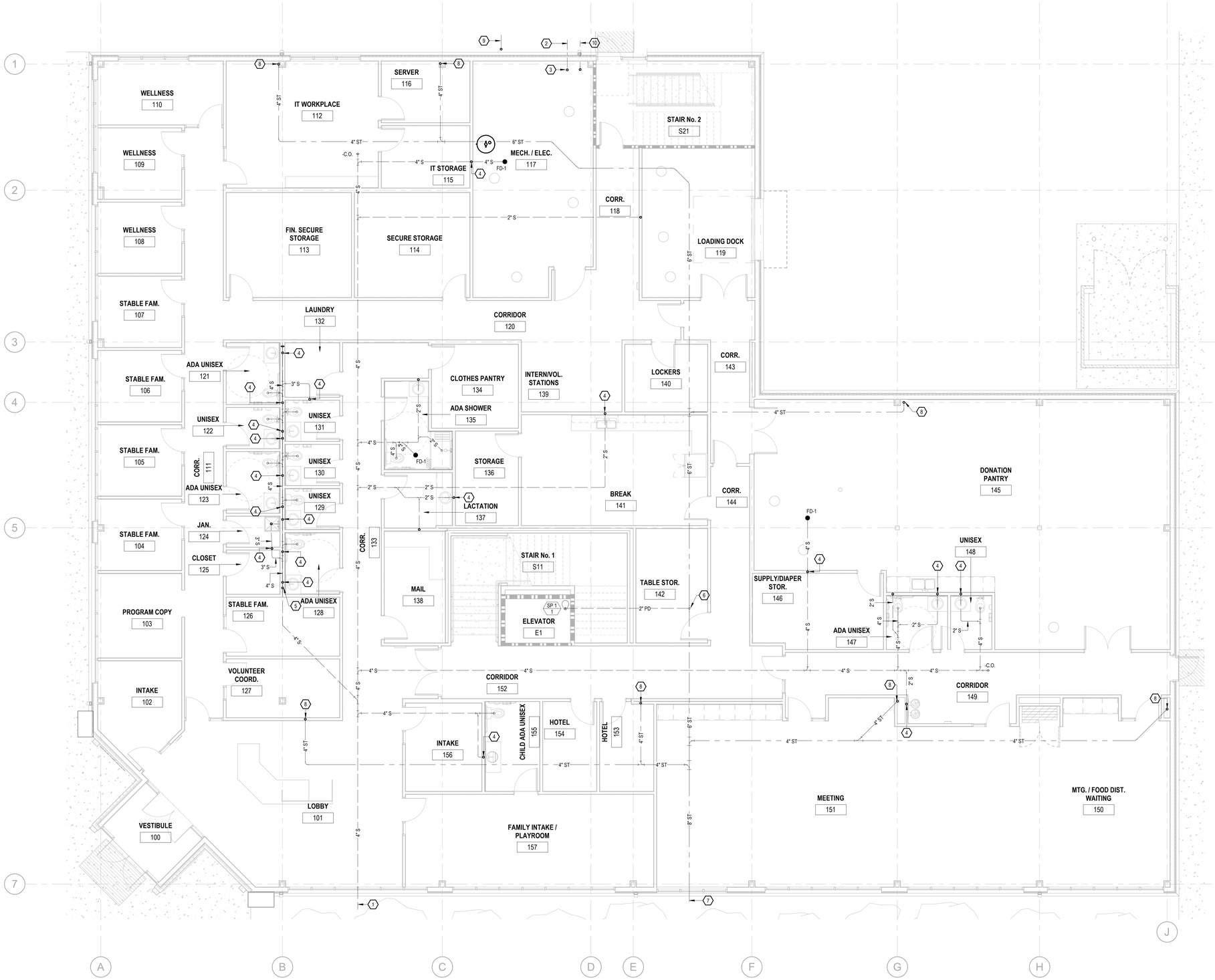

Keynote Legend	
Key Value	**Keynote Text**
1	NEW SANITARY WASTE LATERAL. REFER TO CIVIL SITE UTILITY PLAN FOR CONTINUATION.
2	NEW 2" DOMESTIC WATER BRANCH. REFER TO CIVIL SITE UTILITY PLAN FOR 1-1/2" METER AND TAP LOCATION. PROVIDE 1-1/2" BACKFLOW PREVENTER. BACKFLOW PREVENTER LOCATED IN HOT BOX ON SITE NEAR METER PIT.
3	REFER TO THE ABOVE SLAB DOMESTIC WATER PLAN FOR CONTINUATION.
4	VENT UP. REFER TO THE ABOVE SLAB SANITARY AND VENT PLAN FOR CONTINUATION.
5	4" SANITARY WASTE STACK FROM UPPER LEVEL RESTROOM BANK. REFER TO THE ABOVE SLAB SANITARY AND VENT PLAN FOR CONTINUATION.
6	ROUTE DISCHARGE FROM ELEVATOR SUMP PUMP TO STORM MAIN. CONNECT PUMP DISCHARGE TO THE TOP SIDE OF THE STORM MAIN.
7	NEW STORM LATERAL. REFER TO CIVIL SITE UTILITY PLAN FOR CONTINUATION.
8	STORM LEADER. REFER TO THE ABOVE SLAB SANITARY AND VENT PLAN FOR CONTINUATION.
9	NEW GAS SERVICE. REFER TO CIVIL UTILITY PLAN FOR CONTINUATION. METER LOCATION AND SIZE TO BE COORDINATED WITH LOCAL UTILITY PROVIDER PRIOR TO CONSTRUCTION. REFER TO GAS LOAD SUMMARY FOR TOTAL BUILDING GAS LOAD.
10	FIRE SERVICE LINE. SHOWN FOR REFERENCE ONLY. REFER TO FIRE PROTECTION DRAWINGS.

1 UNDERGROUND PLAN - PLUMBING
P100 3/16" = 1'-0"

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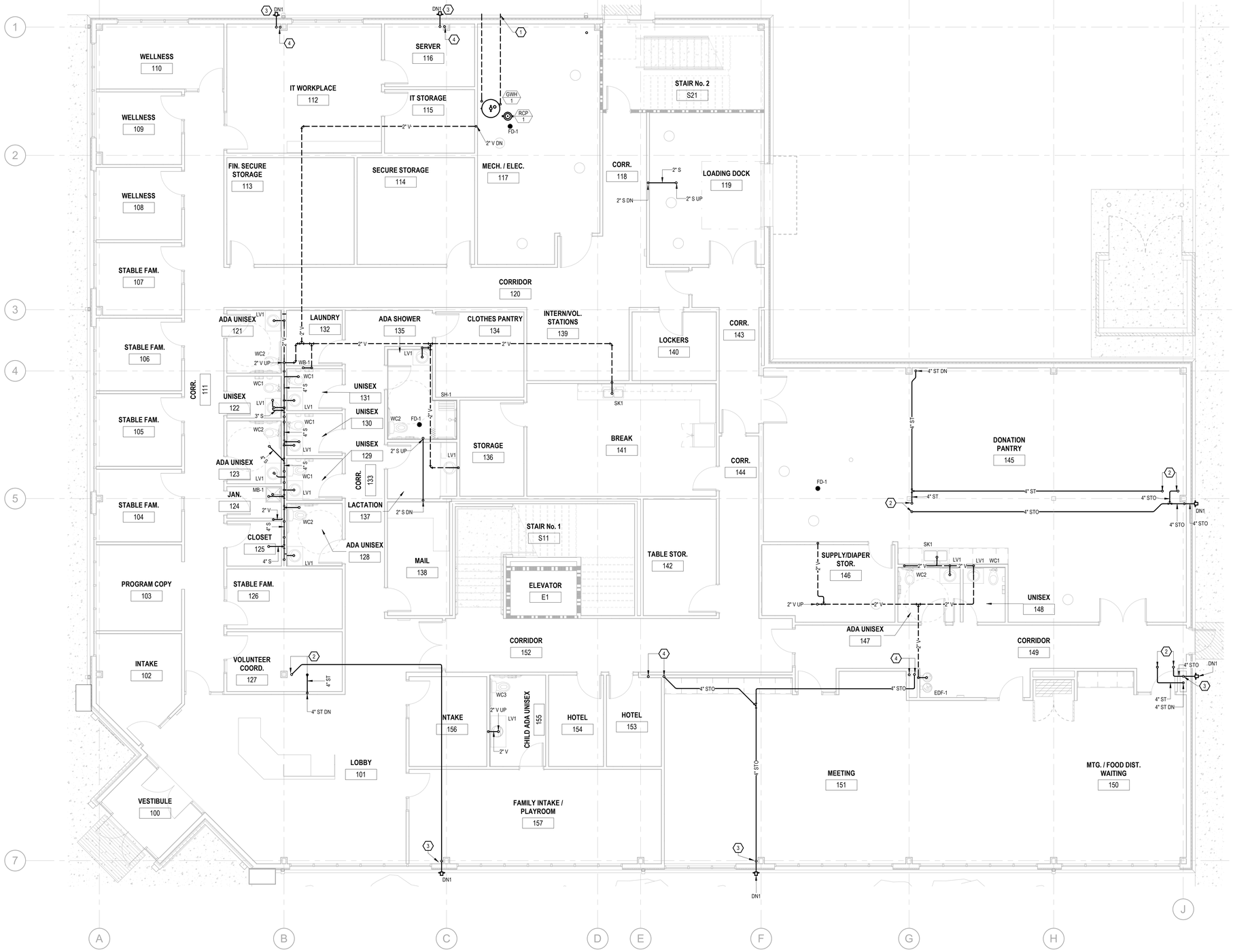
FOUNDATION PLAN - PLUMBING

P100



Keynote Legend	
Key Value	**Keynote Text**
1	WATER HEATER 3" PVC INTAKE AND FLUE. TERMINATE INTAKE AND FLUE PER MANUFACTURERS REQUIREMENTS.
2	PRIMARY AND SECONDARY STORM LEADER DOWN FROM LEVEL ABOVE.
3	SECONDARY STORM OVERFLOW DRAIN DOWN TO EXTERIOR NOZZLE OVERFLOW DISCHARGE NOZZLE IS TO BE MOUNTED AT 18" AFF. TO THE CENTER OF THE NOZZLE.
4	PRIMARY AND SECONDARY STORM LEADER DOWN FROM ABOVE. CONTINUE PRIMARY STORM DOWN TO BELOW SLAB. REFER TO THE BELOW SLAB PLANS FOR PRIMARY STORM CONTINUATION.

1 FIRST FLOOR - SANITARY AND VENTING
P101 3/16" = 1'-0"

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SANITARY AND VENTING - FIRST FLOOR

P101

Keynote Legend	
Key Value	Keynote Text
1	PRIMARY AND SECONDARY STORM DOWN FROM ROOF DRAIN ASSEMBLY.
2	VENT UP TO VENT THROUGH ROOF. REFER TO ISOMETRIC FOR SIZING.

1 SECOND FLOOR - SANITARY AND VENTING
P102
3/16" = 1'-0"

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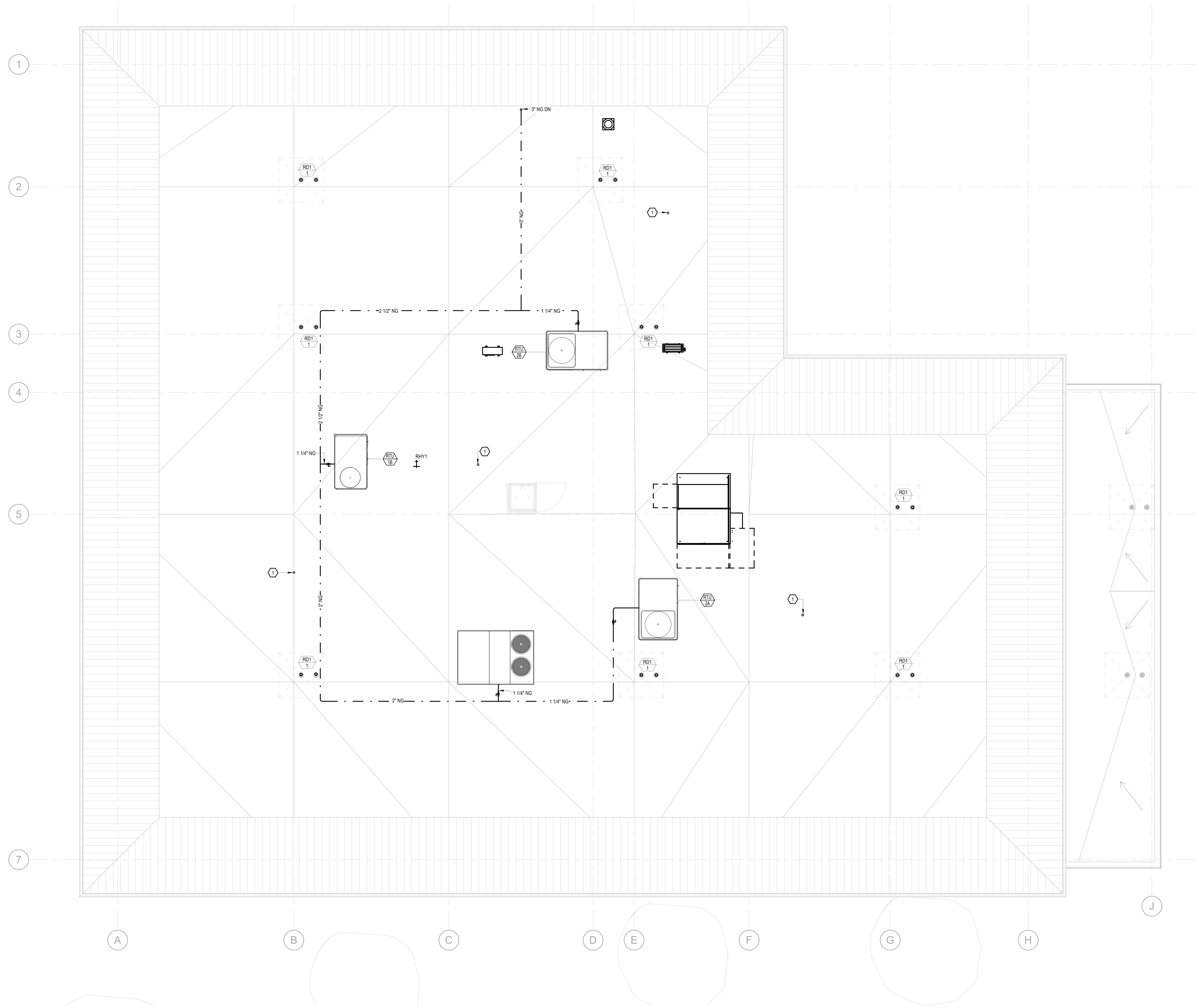
SANITARY AND VENTING - SECOND FLOOR

P102

Keynote Legend	
Key Value	Keynote Text
1	VENT THROUGH ROOF. REFER TO ISOMETRIC FOR SIZING.



1 ROOF - PLUMBING
P103 3/16" = 1'-0"

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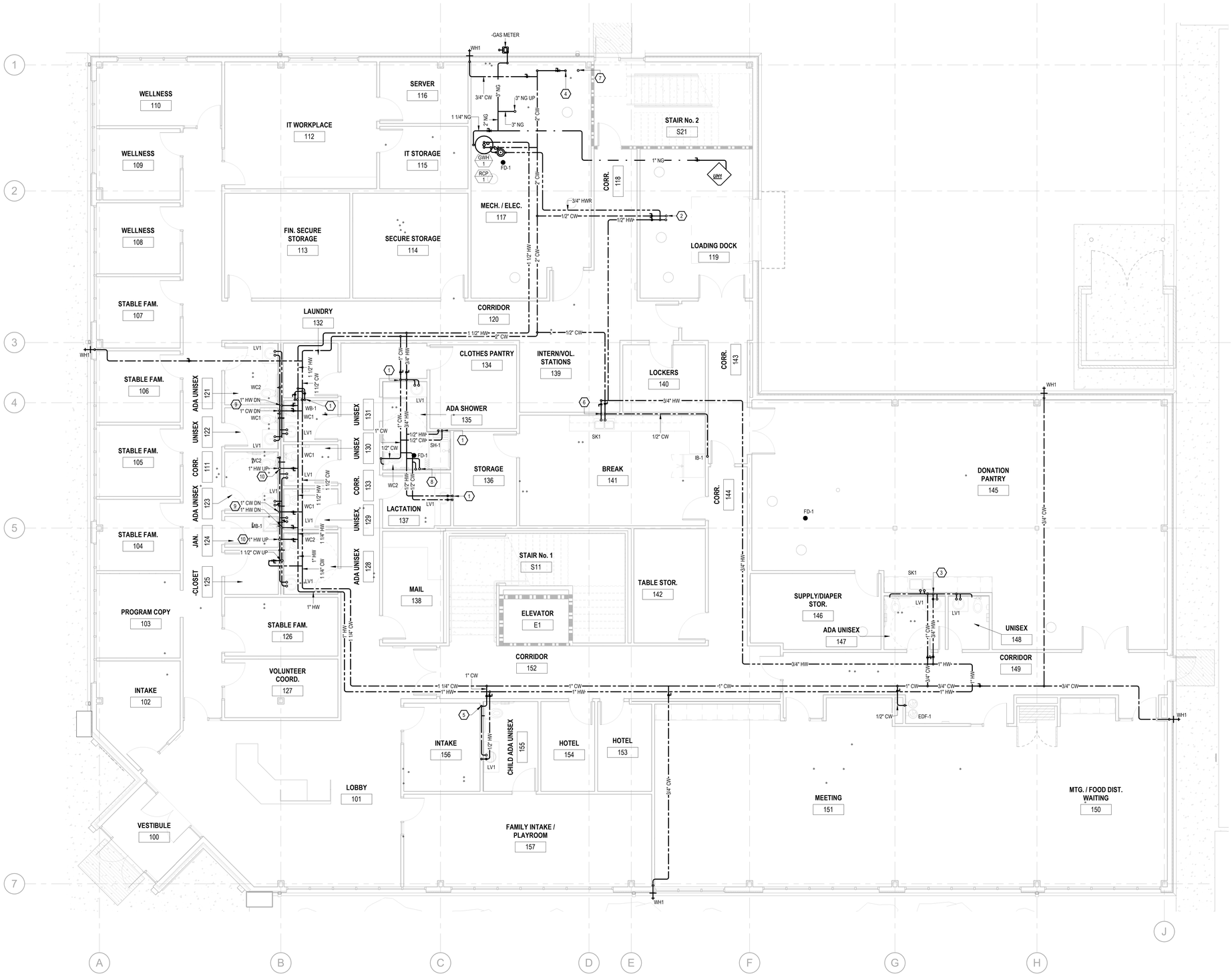
PLUMBING ROOF PLAN

P103



1 FIRST FLOOR - DOMESTIC WATER
P201 3/16" = 1'-0"

Keynote Legend

Key Value	Keynote Text
1	1/2" COLD AND HOT WATER DOWN TO FIXTURE.
2	1/2" COLD AND HOT WATER UP TO FIXTURE LOCATED ABOVE.
3	3/4" HOT WATER DOWN. PROVIDE 1/2" HOT WATER TO LAVATORY AND SINK. PROVIDE 1/2" COLD WATER TO WATER CLOSET.
4	BUILDING DOMESTIC WATER SUPPLY. PROVIDE BUILDING SHUT OFF VALVE. REFER TO BELOW SLAB PLANS FOR CONTINUATION AND SERVICE SIZE INFORMATION.
5	1" COLD WATER DOWN. PROVIDE 1/2" COLD WATER TO LAVATORY AND 1" COLD WATER TO FLUSH VALVE.
6	1/2" COLD AND HOT WATER DOWN. PROVIDE 1/2" COLD AND HOT WATER TO SINK. CONTINUE 1/2" COLD WATER SUPPLY TO ICE MAKER SUPPLY BOX.
7	FIRE SERVICE LINE. SHOWN FOR REFERENCE ONLY. REFER TO FIRE PROTECTION DRAWINGS.
8	3/4" COLD WATER AND 1/2" HOT WATER UP TO LEVEL ABOVE.
9	1" COLD AND HOT WATER DOWN. PROVIDE 1/2" COLD AND HOT WATER TO EACH LAVATORY. PROVIDE 1/2" COLD WATER TO EACH WATER CLOSET.
10	1" HOT WATER UP TO LEVEL ABOVE. REFER TO LEVEL ABOVE FOR CONTINUATION.

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DOMESTIC WATER - FIRST FLOOR

P201

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Keynote Legend	
Key Value	**Keynote Text**
1	1/2" HOT WATER UP FROM BELOW. PROVIDE HOT WATER CONNECTION TO FIXTURE LOCATED ON THIS LEVEL. PROVIDE 1/2" COLD WATER CONNECT TO FIXTURE FROM COLD WATER MAIN LOCATED ON THIS LEVEL.
2	1-1/2" COLD WATER MAIN UP FROM LEVEL BELOW. ROUTE COLD WATER SUPPLY MAIN MIDDLE WALL.
3	1/2" COLD AND HOT WATER UP FROM BELOW.
4	COLD AND HOT WATER UP FROM BELOW. PROVIDE 1/2" COLD AND HOT WATER TO LAVATORY. CONTINUE 3/4" COLD WATER SUPPLY UP TO ROOF HYDRANT.
5	1" HOT WATER UP FROM BELOW. PROVIDE 1/2" HOT WATER TO EACH LAVATORY.
6	3/4" COLD WATER UP TO ROOF HYDRANT.

1 SECOND FLOOR - DOMESTIC WATER
P202 3/16" = 1'-0"

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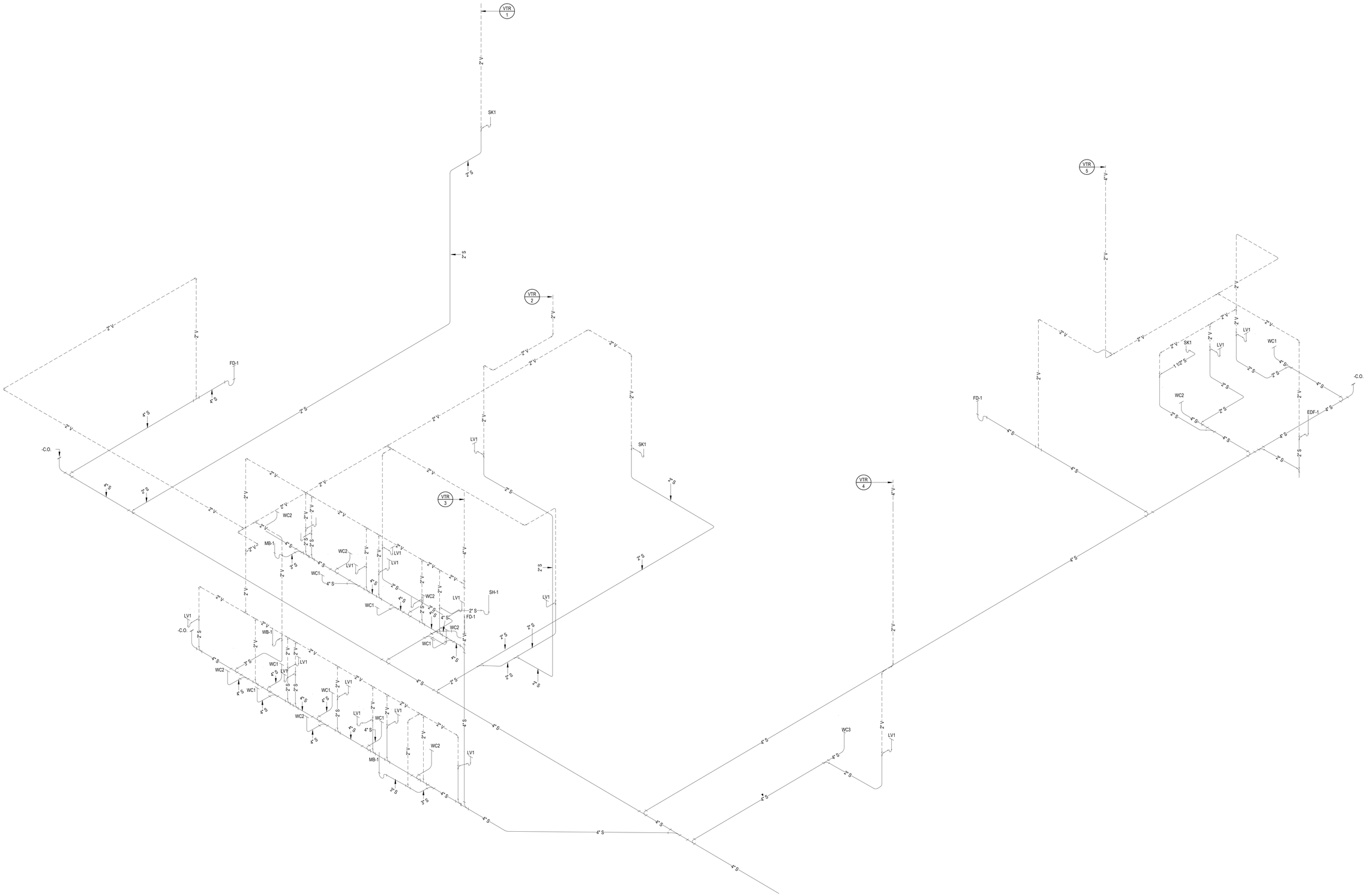
DOMESTIC WATER - SECOND FLOOR

P202



1 P500 SANITARY WASTE AND VENT ISOMETRIC

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PLUMBING ISOMETRIC RISER DIAGRAM

P500

ROOF DRAIN SPEC SCHEDULE

TAG	ROOF DRAIN CONNECTION SIZE	MANUFACTURER	MODEL NO.	DESCRIPTION
RD1-1	4"	ZURN	Z163	COMBINATION MAIN ROOF & OVERFLOW DRAIN W/ LOW SILHOUETTE DOMES & DOUBLE TOP-SET DECK PLATE

WATER HEATER SCHEDULE

TAG	DESCRIPTION	STORAGE (GAL)	RECOVERY CAP. (100°F RISE)	GAS INPUT (BTUH)	PRESSURE (IN W.C.)	ELECTRICAL DATA				FLUE CONNECTION DIA. (IN)	CA INTAKE DIA. (IN)	TEMP. SET POINT (°F)	WEIGHT (LBS)	MANUFACTURER	MODEL NO.
						V	PH	HZ	AMPS						
GWH-1	GAS WATER HEATER	60.0	138.0	120	4.00	120	1	60	0 A	4	4	120	490	A.O SMITH	BTH-120

PUMP SCHEDULE

TAG	TYPE	CAPACITY (GPM)	PUMP HEAD (FT)	ELECTRICAL DATA			MANUFACTURER	MODEL NO.	REMARKS
				V	PH	HZ			
RCP-1	PUMP	18	20	120	1	60	BELL & GOSSETT	ECOCIRC 20-18	

DRAIN SPEC SCHEDULE

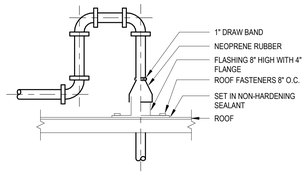
TAG	FIXTURE	MANUFACTURER	MODEL NO.	DESCRIPTION
FD-1	FLOOR DRAIN	ZURN	ZN415B	DOUBLE DRAINAGE FLANGE, TRAP PRIMER, SQUARE STRAINER IF INSTALLED IN TILE FLOOR

FIXTURE SPEC SCHEDULE

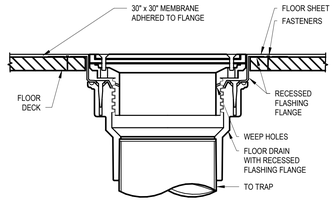
TAG	FIXTURE	MANUFACTURER	MODEL NO.	DESCRIPTION
EDF-1	ELECTRIC WATER COOLER	ELKAY	LZSTL8WSSP	HIGH/LOW WITH BOTTLE FILLER
IB-1	ICE MAKER WATER SUPPLY BOX	OATEY	384 SERIES	WATER SUPPLY WALL BOX
LV1	UNDERMOUNT LAVATORY	KOHLER	K-2210-N	PROVIDE KOHLER FAUCET MODEL K-104BB76-SBNA
MB-1	MOP SINK	FIAT	TSBCR1000	PROVIDE FIAT FAUCET MODEL 830AA00. PROVIDE WAKK BRACE AND PAIL HOOK
RHY1	ROOF HYDRANT	MURDOCK	M-3903	FREEZE RESISTANT ROOF HYDRANT
SH-1	SHOWER VALVE AND DRAIN	KOHLER	K-728-K & K-8304-KS	PROVIDE SHOWER DRAIN EQUAL TO KOHLER MODEL K-9132.
SK1	UNDERMOUNT DOUBLE SINK	KOHLER	K-2297-0	PROVIDE KOHLER FAUCET MODEL K-22972-CP.
WB-1	WAHSER BOX	GUY GRAY	MWB17	WASHER SUPPLY WALL BOX
WC1	WATER CLOSET	KOHLER	WELLWORTH K-3998	FLOOR SET TANK TYPE WATER CLOSET
WC2	ADA WATER CLOSET	KOHLER	HIGHLINE K-43999	ADA FLOOR SET TANK TYPE WATER CLOSET
WC3	WATER CLOSET	KOHLER	K-96059	CHILD HEIGHT FLOOR MOUNTED FLUSH VALVE WATER CLOSET. PROVIDE KOHLER FLUSH VALVE MODEL K-80TM00N10 - 1.28 GPF
WH1	WALL HYDRANT	MURDOCK	M-3619	EXTERIOR WALL HYDRANT

GAS CONNECTED LOAD TABLE	
APPLIANCE	INPUT MBH
RTU-1A	250
RTU-1B	240
RTU-2A	250
RTU-2B	250
UNIT HEATER UH1	45
GAS WATER HEATER	120
BUILDING TOTAL	1155 MBH AT 7" W.C SERVICE PRESSURE

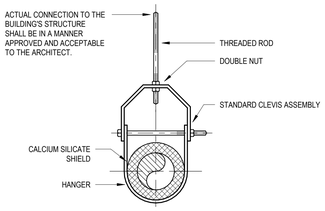
1 P600 GAS CONNECTED LOAD TABLE



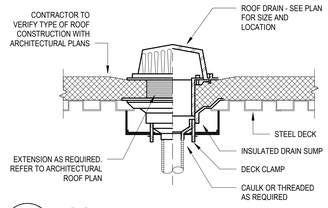
5 P600 GAS PIPE THRU ROOF DETAIL



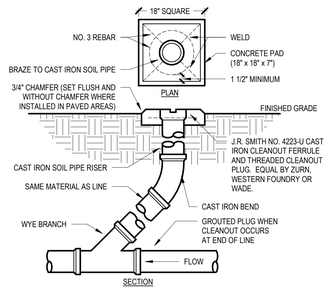
2 P600 FLUSHING RIM SINK - PEDESTAL MOUNT DETAIL



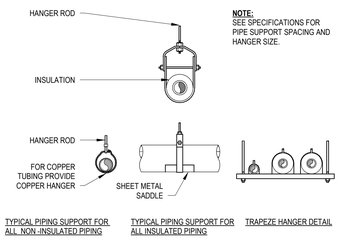
6 P600 PIPE CLEVIS HANGER DETAIL



10 P600 ROOF DRAIN DETAIL

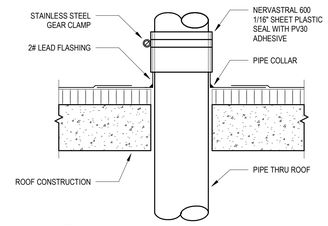


3 P600 FINISH GRADE CLEANOUT DETAIL



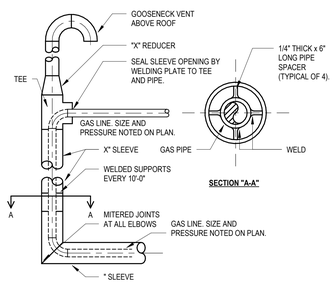
NOTE:
SEE SPECIFICATIONS FOR PIPE SUPPORT SPACING AND HANGER SIZE.

7 P600 PIPE SUPPORT

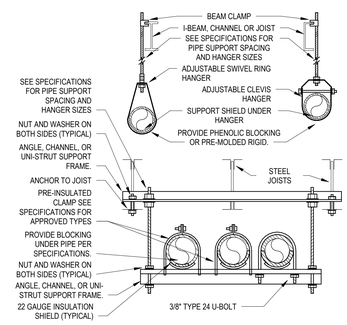


NOTE:
COORDINATE ROOF PENETRATIONS AND DETAILING WITH ARCHITECT

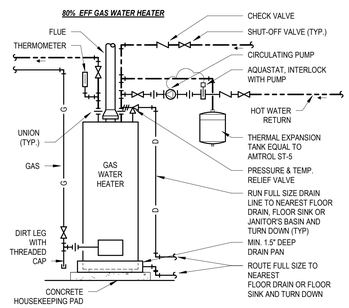
11 P600 VENT THRU ROOF DETAIL



4 P600 GAS PIPE SLEEVE DETAIL



8 P600 PIPE SUPPORT



12 P600 WATER HEATER DETAIL

ATA ARCHITECTS
1063 Central Avenue Cincinnati Ohio, 45202
p: 513-241-4422 f: 513-241-5560 www.ATA-B.com

SANTA MARIA COMMUNITY SERVICES

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SANTA MARIA COMMUNITY SERVICES

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CERTIFICATION

REVISIONS

#	DATE	DESCRIPTION
1	01/09/2026	80% PROGRESS SET
2	01/30/2026	PERMIT ISSUE

PROJECT #: 6568

DRAWN: JWG **CHECKED:** KAS

rtm engineering consultants
515 MONMOUTH | 201 | NEWPORT, KY 41071
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PLUMBING SCHEDULES AND CALCULATIONS

P600

PLUMBING SPECIFICATIONS

1. PLUMBING GENERAL REQUIREMENTS
   A. THE INTENT OF THIS DOCUMENT IS TO ASSIST THE PLUMBING CONTRACTOR OR DESIGN-BUILD CONTRACTOR DESIGN PARTNER IN PROVIDING A PRICE FOR THIS WORK.
   B. 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.
   C. THE PLUMBING CONTRACTOR SHALL BE LICENSED BY THE STATE OF OHIO TO INSTALL PLUMBING SYSTEMS.
   D. ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH ALL APPLICABLE STATE, LOCAL CODES AND ORDINANCES.
   E. IN CASE OF CONFLICT BETWEEN THE DRAWINGS/SPECIFICATIONS AND THE CODES AND ORDINANCES, THE HIGHEST STANDARD SHALL APPLY.
   F. THE PLUMBING CONTRACTOR SHALL SATISFY CODE REQUIREMENTS AS A MINIMUM STANDARD.
   G. COORDINATE PIPING CHASES, SHAFTS, ABOVE CEILING WORK, ETC. WITH ARCHITECT. ALL DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT FOR REVIEW PRIOR TO WORK.
   H. THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING ALL NECESSARY PLUMBING PIPING PENETRATIONS. THIS INCLUDES CORING HOLES IN SLABS, ETC.
   I. EQUIPMENT AND MATERIALS SHALL CONFORM WITH APPROPRIATE PROVISIONS OF AGA, ARI, ASME, ASTM, CISPI, UL, NEMA, ANSI, SMACNA, ASHRAE, NFPA, NEC, AS APPLICABLE TO EACH INDIVIDUAL UNIT OR ASSEMBLY. ALL EQUIPMENT MUST BEAR UL LABEL.
   J. INSTALL EQUIPMENT PER MANUFACTURER'S REQUIREMENTS. MAINTAIN ALL CODE RECOMMENDED CLEARANCES.
   K. THOROUGHLY EXAMINE ALL AREAS WHERE EQUIPMENT AND PIPING WILL BE INSTALLED AND REPORT ANY CONDITION THAT PREVENTS THE PROPER INSTALLATION OF THE PLUMBING WORK PRIOR TO BID. ALL WORK SHALL BE DONE AT TIMES CONVENIENT TO THE OWNER AND ONLY DURING NORMAL WORKING HOURS, UNLESS SPECIFIED OTHERWISE. PLUMBING CONTRACTOR SHALL TAKE THEIR OWN MEASUREMENTS.
   L. WHERE NOT PROVIDED BY OTHERS, PROCURE AND PAY FOR ALL PERMITS, FEES, TAXES AND INSPECTIONS NECESSARY TO COMPLETE THE PLUMBING WORK. FURNISH CERTIFICATE OF APPROVAL FOR WORK FROM INSPECTION AUTHORITY TO OWNER BEFORE FINAL ACCEPTANCE FOR WORK. CERTIFICATE OF FINAL INSPECTION AND APPROVAL SHALL BE SUBMITTED WITH THE CONTRACTOR'S REQUEST FOR PAYMENT. NO FINAL PAYMENT WILL BE APPROVED WITHOUT THIS CERTIFICATE.
   M. DRAWINGS ARE DIAGRAMMATIC ONLY INTENDING TO SHOW GENERAL RUNS AND LOCATIONS OF EQUIPMENT, FIXTURES, PIPING AND NOT NECESSARILY SHOWING ALL OFFSETS, DETAILS, ACCESSORIES AND EQUIPMENT TO BE CONNECTED.
   N. ALL WORK SHALL BE ACCURATELY LAID-OUT WITH OTHER TRADES, PRIOR TO INSTALLATION & FABRICATION, TO AVOID ALL CONFLICTS AND OBTAIN A NEAT AND WORKMANLIKE INSTALLATION WHICH WILL AFFORD MAXIMUM ACCESSIBILITY FOR EQUIPMENT OPERATION, MAINTENANCE CLEARANCES AND HEADROOM.
   O. NO PIPING SHALL BE EXPOSED UNLESS APPROVED BY THE ARCHITECT.
   P. ANY PLUMBING SYSTEMS SERVING OTHER AREAS OF THE BUILDING MUST REMAIN UNDISTURBED/ OPERATIONAL. IF THE PLUMBING CONTRACTOR IDENTIFIES ANY INSTANCES WHERE THIS WILL NOT BE ACHIEVABLE, THEY MUST REPORT THIS TO THE GENERAL CONTRACTOR PRIOR TO TOUCHING THE SYSTEM(S).
2. USE OF INFORMATION PROVIDED BY RTM
   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, RTM CAN ASSIST WHERE APPROPRIATE.
4. PLENUMS
   A. REFER TO MECHANICAL DRAWINGS FOR LOCATIONS WHERE CEILINGS AND/OR MECHANICAL ROOMS ARE BEING USED AS PLENUMS.
   B. WHERE CEILINGS OR ROOMS ARE BEING USED AS PLENUMS, ALL PIPING MATERIALS, DRAIN BODIES, AND DRAIN PANS WITHIN THE PLENUM/ROOM SHALL BE PLENUM-RATED. NO PVC PIPING OR OTHER PVC COMPONENTS SHALL BE INSTALLED WITHING THE CEILING/ROOM UNLESS THE LOCAL AUTHORITY HAVING JURISDICTION ALLOWS THE USE OF INSULATION WITH THE REQUIRED FLAME AND SMOKE RATINGS TO PROTECT THE PIPING.
   C. WHERE MECHANICAL ROOMS ARE USED AS A PLENUM OR CEILINGS CAVITIES BELOW LOCATIONS WHERE DRAINS ARE INSTALLED, DRAIN BODIES SHALL BE CAST IRON AND STRAINERS SHALL BE PLENUM-RATED.
   D. DRAIN PANS INSTALLED IN ROOMS BEING USED AS A PLENUM SHALL BE ALUMINUM.
   E. WHERE WATER HEATERS ARE INSTALLED IN ROOMS BEING USED AS A PLENUM, ALL COMPONENTS SHALL BE PLENUM-RATED. WATER HEATER PRESSURE RELIEF PIPING SHALL BE COPPER.
5. CUTTING AND PATCHING
   A. CUT AND PATCH ALL WALLS, CEILINGS, FLOORS, AND SLABS TO MATCH BUILDING CONSTRUCTION WHERE REQUIRED TO INSTALL PLUMBING.
6. CONCRETE HOUSEKEEPING PADS
   A. ALL FLOOR-MOUNTED EQUIPMENT SHALL BE INSTALLED LEVEL AND PLUMB ON 4" THICK CONCRETE HOUSEKEEPING PAD.
7. ESCUTCHEON PLATES
   A. INSTALL ONE-PIECE CHROME PLATED BRASS WALL PLATE EQUIPPED WITH SET SCREW AROUND ALL EXPOSED PIPE PASSING THROUGH WALLS IN FINISHED AREAS.
8. 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.
9. 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.
10. FLASHING & COUNTERFLASHING
   A. PROVIDE ROOF FLASHING AND COUNTERFLASHING FOR ALL ROOF PENETRATIONS.
   B. OBTAIN APPROVAL FROM GENERAL CONTRACTOR, CONSTRUCTION MANAGER, OWNER AND/OR ROOFING CONTRACTOR PRIOR TO MAKING ANY PENETRATIONS SO THAT WARRANTIES ARE NOT COMPROMISED OR VOIDED.
11. 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.
12. EXCAVATION, TRENCHING & BACKFILL
   A. DO ALL EXCAVATION, TRENCHING & BACKFILL REQUIRED FOR THE INSTALLATION OF PLUMBING WORK.
   B. ALL BACKFILL SHALL BE COMPACTED & BROUGHT TO FINISHED GRADE AND MUST MATCH SURROUNDING CONDITIONS.
   C. RESTORE ALL DISTURBED FLOORING TO ORIGINAL CONDITION.
   D. ALL PIPING SHALL BE LAID ON A BED OF SAND, 6" THICK MINIMUM. BACKFILL UNDER BUILDING AND ALL DRIVES, ROADS AND WALKS WITH BANK-RUN GRAVEL.
13. EQUIPMENT CONNECTIONS
   A. INSTALL UNIONS AT FINAL CONNECTION TO EACH PIECE OF EQUIPMENT. INSTALL DIELECTRIC COUPLINGS TO CONNECT PIPING MATERIALS OF DISSIMILAR METALS.
14. PIPING INSTALLATION
   A. INSTALL PIPING FREE OF SAGS AND BENDS. INSTALL FITTINGS FOR CHANGES IN DIRECTION AND BRANCH CONNECTIONS.
15. TESTING
   A. ALL PLUMBING WORK SHALL BE TESTED & APPROVED BY INSPECTOR PRIOR TO BEING BACKFILLED, CONCEALED & PUT INTO SERVICE. AFTER TESTING IS COMPLETE & APPROVED, THE PLUMBING CONTRACTOR MUST DISINFECT THE POTABLE WATER SYSTEM AS REQUIRED BY LOCAL AUTHORITY. TEST WATER PURITY ACCORDING TO LOCAL REQUIREMENTS AND SUBMIT CERTIFIED TEST RESULTS TO OWNER FOR REVIEW AND APPROVAL.
16. SUBMITTALS AND PRODUCT DATA
   A. SUBMIT TO THE ARCHITECT PDF FILE COPIES OF ALL SUBMITTALS AND PRODUCT DATA, COMPLETE WITH PERFORMANCE RATINGS, DIAGRAMS AND SPECIFICATIONS FOR 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 SUBMITALS AND PRODUCT DATA DOES NOT RELIEVE THE PLUMBING CONTRACTOR/VENDOR FROM COMPLIANCE WITH THE REQUIREMENTS OF THE CONTRACT DRAWINGS, SPECIFICATIONS & APPLICABLE CODES.
17. 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.
18. WARRANTY
   A. THE PLUMBING CONTRACTOR MUST UNCONDITIONALLY WARRANT ALL WORK TO BE FREE OF DEFECTS IN EQUIPMENT, MATERIAL AND WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE BY OWNER AND THE PLUMBING CONTRACTOR WILL REPAIR OR REPLACE ANY DEFECTIVE WORK PROMPTLY AND WITHOUT CHARGE TO THE OWNER.
   B. RESTORE ANY OTHER EXISTING WORK DAMAGED IN THE COURSE OF REPAIRING DEFECTIVE EQUIPMENT, MATERIALS AND WORKMANSHIP.
19. EXPANSION FITTINGS AND LOOPS FOR PLUMBING PIPING
   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.
   E. INSTALL FLEXIBLE PIPE CONNECTORS ON PIPES CONNECTED TO VIBRATION ISOLATED EQUIPMENT. PROVIDE LINE SIZE FLEXIBLE CONNECTORS.
   F. ANCHOR PIPE TO BUILDING STRUCTURE WHERE INDICATED. PROVIDE PIPE GUIDES SO MOVEMENT IS DIRECTED ALONG AXIS OF PIPE ONLY. ERECT PIPING SUCH THAT STRAIN AND WEIGHT IS NOT ON CAST CONNECTIONS OR APPARATUS.
   G. PROVIDE SUPPORT AND EQUIPMENT REQUIRED TO CONTROL EXPANSION AND CONTRACTION OF PIPING. PROVIDE LOOPS, PIPE OFFSETS, AND SWING JOINTS, OR EXPANSION JOINTS WHERE REQUIRED.
   H. INSTALL IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
20. SLEEVES AND SLEEVE SEALS FOR PLUMBING PIPING
   A. INSTALL SLEEVES FOR PIPES PASSING THROUGH CONCRETE AND MASONRY WALLS, GYPSOM-BOARD PARTITIONS, CONCRETE FLOORS, AND ROOF SLABS.
   B. SEAL PIPE PENETRATIONS THROUGH RATED CONSTRUCTION WITH FIRESTOPPING SEALANT MATERIAL.
   C. FOR PIPES PENETRATING THROUGH BELOW-GRADE EXTERIOR WALLS, PROVIDE WATERTIGHT SPACE WITH LINK RUBBER OR MODULAR SEAL BETWEEN SLEEVE AND PIPE ON BOTH ENDS.
21. METERS AND GAUGES FOR PLUMBING
   A. WATER METERS FOR MAIN DOMESTIC WATER SERVICE - PROVIDE 2" WATER METER ACCORDING TO WATER PURVEYOR'S REQUIREMENTS.
   B. GAS METERS - PROVIDE GAS METER SIZED FOR THE TOTAL CONNECTED LOAD. COORDINATE WITH LOCAL UTILITY PROVIDER.
22. GENERAL-DUTY VALVES FOR PLUMBING PIPING
   A. VALVES FOR DOMESTIC WATER MUST MEET THE REQUIREMENTS OF THE LEAD-FREE LAW S.3874. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE LEAD-FREE PRODUCTS AS MANDATED BY THE LAW AND AS REQUIRED/INTERPRETED BY THE AUTHORITY HAVING JURISDICTION.
   B. PROVIDE VALVES FOR WORKING PRESSURE IN WATER PIPING OF 125 PSI OR GREATER.
   C. GENERAL DUTY VALVES - PROVIDE TWO-PIECE, FULL PORT, SILICON BRONZE BALL VALVES WITH THE CAPABILITY OF ACCEPTING EXTENDED OPERATING HANDLES (FOR INSULATED PIPING). VALVES SHALL BE NIBCO MODEL T/S/PC-595-Y-66-LF (-NS) OR EQUAL PRODUCT MANUFACTURED BY AMERICAN VALVE CO, CRANE, HAMMOND, MILWAUKEE, RED-WHITE VALVE CORPORATION, OR WATTS.
   D. DOMESTIC WATER BALANCING VALVES - BALANCING VALVES SHALL BE EQUAL TO CIRCUITSOLVER, THERMOSTATIC, SELF-ACTUATING BALANCING VALVES WITH UNIONS, STRAINER, CHECK VALVE, THERMOMETER, AND TWO INTEGRATED BALL VALVES.
   E. THERMOSTATIC MIXING VALVES FOR PUBLIC HAND-WASHING FACILITIES - 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.
   F. 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.
   G. LOCATE SHUT-OFF VALVES ADJACENT TO EQUIPMENT FOR EASY ACCESS SUCH THAT VALVES CAN BE REACHED WITHOUT MOVING EQUIPMENT.
   H. CONTROL VALVES SHALL BE MANUFACTURED BY OR APPROVED BY PIPING MANUFACTURER.
   I. ADJUST ALL STOPS AND VALVES PROPERLY PRIOR TO PROJECT COMPLETION.
23. HANGERS AND SUPPORTS FOR PLUMBING PIPING AND EQUIPMENT
   A. THE PLUMBING CONTRACTOR MUST FURNISH ALL PIPE SUPPORTS REQUIRED FOR THEIR WORK. ALL PIPING SHALL BE SUPPORTED PER CODE. ADDITIONAL SUPPORTS SHALL BE PROVIDED WHERE REQUIRED TO PREVENT SAGGING. WHERE ALTERNATIVE PIPING MATERIALS ARE USED, HANGER SPACING CAN BE REDUCED AS RECOMMENDED BY THE MANUFACTURER AND WHERE ALLOWED BY CODE.
   B. SUPPORT FOR PIPING INSTALLED ON THE ROOF - ALL PIPING ON ROOF TO BE SUPPORTED WITH RUBBER, UV-RESISTANT SUPPORT BLOCKS EQUAL TO MIFAB CXM-B.
24. DOMESTIC WATER PIPING GENERAL REQUIREMENTS
   A. PROVIDE A NEW DOMESTIC WATER SERVICE TO THE BUILDING.
25. EXTERIOR DOMESTIC WATER SERVICE PIPING
   A. EXTERIOR WATER SERVICE PIPING LARGER THAN 2" TO BE PVC, AWWA PIPE: AWWA C900, CLASS 200, WITH BELL END WITH GASKET, AND WITH SPIGOT END. COMPLY WITH UL 1285 FOR FIRE-SERVICE MAINS IF INDICATED. PVC FABRICATED FITTINGS: AWWA C900, CLASS 200, WITH BELL-AND-SPIGOT OR DOUBLE-BELL ENDS. INCLUDE ELASTOMERIC GASKET IN EACH BELL. PVC MOLDED FITTINGS: AWWA C907, CLASS 150, WITH BELL-AND-SPIGOT OR DOUBLE-BELL ENDS. INCLUDE ELASTOMERIC GASKET IN EACH BELL. PUSH-ON-JOINT, DUCTILE-IRON FITTINGS: AWWA C110, DUCTILE- OR GRAY-IRON STANDARD PATTERN OR AWWA C153, DUCTILE-IRON COMPACT PATTERN. GASKETS: AWWA C111, RUBBER. MECHANICAL-JOINT, DUCTILE-IRON FITTINGS: AWWA C110, DUCTILE- OR GRAY-IRON STANDARD PATTERN OR AWWA C153, DUCTILE-IRON COMPACT PATTERN. GLANDS, GASKETS, AND BOLTS: AWWA C111, DUCTILE- OR GRAY-IRON GLANDS, RUBBER GASKETS, AND STEEL BOLTS.
26. INTERIOR DOMESTIC WATER PIPING
   A. INTERIOR DOMESTIC WATER PIPING TO BE COPPER TUBE WITH WROUGHT COPPER SWEAT FITTINGS JOINED WITH LEAD FREE SOLDER. PROVIDE TYPE "L" COPPER TUBE ABOVE GRADE AND TYPE "K" BELOW GRADE. DOMESTIC WATER PIPING 2-1/2" AND LARGER SHALL BE EITHER COPPER PIPE & FITTINGS OR MECHANICAL GROOVED PIPE & FITTINGS.
      1) WHERE APPROVED BY THE AUTHORITY HAVING JURISDICTION, COLD PRESS MECHANICAL JOINT FITTINGS ARE ACCEPTABLE. TUBING MUST COMPLY WITH THE ASTM B88 STANDARD. FITTINGS SHALL CONFORM TO MATERIAL REQUIREMENTS OF ASME B16.51, NSF 61 (LEAD-FREE), AND TESTED UNDER NSF/ANSI 372. COLD PRESS MECHANICAL JOINT FITTINGS SHALL BE EQUAL TO VIEGA PROPRESS, WITH HNBR SEALING ELEMENTS FOR PRESS FITTINGS. SEALING ELEMENTS SHALL BE FACTORY INSTALLED OR AN ALTERNATIVE SUPPLIED BY FITTING MANUFACTURER. PRESS ENDS SHALL BE DESIGNED TO ASSURE LEAKAGE OF LIQUIDS AND/OR GASES FROM INSIDE THE SYSTEM PAST THE SEALING ELEMENT OF AN UN-PRESSED CONNECTION. THE FUNCTION OF THIS FEATURE IS TO PROVIDE THE INSTALLER QUICK AND EASY IDENTIFICATION OF CONNECTIONS WHICH HAVE NOT BEEN PRESSED PRIOR TO PUTTING THE SYSTEM INTO OPERATION.
   B. CPVC PIPING
      1) CPVC PIPING 2" AND SMALLER SHALL BE EQUAL TO FLOW GUARD GOLD - THIS SPECIFICATION COVERS COPPER TUBE SIZE (CTS) CPVC MANUFACTURED TO STANDARD DIMENSIONAL RATIO (SDR) 11 FOR HOT AND COLD DOMESTIC WATER DISTRIBUTION. THIS SYSTEM IS INTENDED FOR PRESSURE APPLICATIONS WHERE THE OPERATING TEMPERATURE WILL NOT EXCEED 180°F AT 100 PSI. PIPE AND FITTINGS SHALL BE MANUFACTURED FROM VIRGIN RIGID CPVC (CHLORINATED POLYVINYL CHLORIDE) VINYL COMPOUNDS WITH A CELL CLASS OF 24448 AS IDENTIFIED IN ASTM D 1784. CTS CPVC PIPE AND FITTINGS SHALL CONFORM TO ASTM D 2846. PIPE AND FITTINGS SHALL BE MANUFACTURED AS A SYSTEM AND BE THE PRODUCT OF ONE MANUFACTURER. ALL PIPE AND FITTINGS SHALL BE MANUFACTURED IN THE UNITED STATES. PIPE AND FITTINGS SHALL CONFORM TO NATIONAL SANITATION FOUNDATION (NSF) STANDARDS 14 AND 61. INSTALLATION SHALL COMPLY WITH LATEST INSTALLATION PROVIDED BY THE MANUFACTURER AND SHALL CONFORM TO ALL LOCAL PLUMBING, BUILDING AND FIRE CODE REQUIREMENTS. BURIED PIPE SHALL BE INSTALLED IN ACCORDANCE WITH ASTM F 1668. SOLVENT WELD JOINTS SHALL BE MADE USING CPVC CEMENT CONFORMING TO ASTM F 493. YELLOW ONE-STEP CEMENT MAY BE USED WITHOUT PRIMER. IF A PRIMER IS REQUIRED BY LOCAL PLUMBING OR BUILDING CODES, THEN A PRIMER CONFORMING TO ASTM F 656 SHOULD BE USED. THE SYSTEM SHALL BE PROTECTED FROM CHEMICAL AGENTS, FIRE STOPPING MATERIALS, THREAD SEALANT, PLASTICIZED VINYL PRODUCTS OR OTHER AGGRESSIVE CHEMICAL AGENTS NOT COMPATIBLE WITH CPVC COMPOUNDS. SYSTEMS SHALL BE HYDROSTATICALLY TESTED AFTER INSTALLATION. NEVER TEST WITH OR TRANSPORT/STORE COMPRESSED AIR OR GAS IN CPVC PIPE OR FITTINGS.
      2) CPVC PIPING LARGER THAN 2" SHALL BE EQUAL TO CORZAN - THIS SPECIFICATION COVERS THE MANUFACTURING REQUIREMENTS FOR CPVC SCHEDULE 80 IRON PIPE SIZE (IPS) PIPE AND FITTINGS. BOTH THE PIPE AND FITTINGS ARE MANUFACTURED IN NORTH AMERICA AND MEET OR EXCEED THE REQUIREMENTS SET FORTH BY THE AMERICAN SOCIETY FOR TESTING MATERIALS (ASTM) AND ANSI/NSF STANDARDS 14 AND 61. CPVC PIPE AND FITTINGS ARE EXTRUDED/MOLDED FROM CPVC COMPOUNDS. THE PIPE COMPOUND MEETS CELL CLASS 24448 AND THE FITTING COMPOUND MEETS CELL CLASS 23447 AS DEFINED BY ASTM D1784. BOTH THE PIPE AND THE FITTING COMPOUNDS ARE CERTIFIED BY NSF INTERNATIONAL FOR USE WITH POTABLE WATER. DIMENSIONS, TOLERANCES AND PHYSICAL PROPERTIES MEET OR EXCEED THE REQUIREMENTS OF ASTM STANDARDS 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 ASSEMBLED EMPLOYING SOLVENT CEMENTS THAT MEET OR EXCEED THE REQUIREMENTS OF ASTM F493. THE STANDARD PRACTICE FOR SAFE HANDLING OF SOLVENT CEMENTS SHALL BE IN ACCORDANCE WITH ASTM F402. SOLVENT CEMENT SHALL BE LISTED BY NSF INTERNATIONAL FOR USE WITH POTABLE WATER, AND APPROVED BY THE FITTINGS MANUFACTURERS. 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 INSTALLED IN RETURN AIR PLENUMS. TEST REPORTS FROM A THIRD PARTY TESTING LABORATORY SHALL BE OBTAINED AND MADE AVAILABLE UPON REQUEST. THE MARKING ON THE CPVC PIPE MEET THE REQUIREMENTS OF ASTM F441 AND THE MARKING ON THE FITTINGS MEETS THE REQUIREMENTS OF ASTM STANDARDS F437, F438 OR F1970. THE PIPE AND FITTINGS MARKINGS STATE THE PIPE/FITTING MANUFACTURER'S NAME OR TRADEMARK, THE MATERIAL DESIGNATION, THE SIZE, THE NSF MARK FOR POTABLE WATER AND THE ASTM DESIGNATION.
   C. PEX TUBING
      1) PEX TUBING SHALL BE PEX-A TYPE AND FITTINGS SHALL BE EQUAL TO UPONOR AQUAPEX. TUBING AND FITTINGS MUST CONFORM TO ASTM F876 "STANDARD SPECIFICATION FOR CROSSLINKED POLYETHYLENE, ASTM F877 "STANDARD FOR CROSSLINKED POLYETHYLENE PLASTIC HOT AND COLD WATER DISTRIBUTION SYSTEMS". PROVIDE ENGINEERED PLASTIC FITTINGS WITH PLASTIC COLLARS WHICH CONFORM TO ASTM F1960 STANDARD SPECIFICATION FOR COLD EXPANSION FITTINGS WITH PEX REINFORCING RINGS FOR USE WITH CROSSLINKED POLYETHYLENE PIPING. PEX TUBING AND CONNECTIONS SHALL BE WARRANTED FOR A PERIOD OF 25 YEARS. DO NOT WELD, GLUE, TAPE OR ALLOW OTHER SOLVENT BASED ADHESIVES OR PAINTS TO COME INTO CONTACT WITH TUBING. DO NOT ALLOW TUBING TO COME IN CONTACT WITH PIPE THREAD COMPOUNDS, FIREWALL PENETRATION SEALING COMPOUNDS, AND PETROLEUM BASED SEALANTS. DO NOT ALLOW TUBING TO COME WITHIN 6" OF GAS APPLIANCE VENTS OR 12" OF RECESSED LIGHT FIXTURES. DO NOT EXPOSE TUBING TO OPEN FLAME. DO NOT SOLDER WITHIN 18" OF TUBING. DO NOT INSTALL TUBING BETWEEN TUB SPOUT AND SHOWER VALVE. RADIUS OF BENDS MUST NOT EXCEED SIX TIMES OUTSIDE TUBE DIAMETER. REPAIR KINKS IN TUBING USING HEAT AS RECOMMENDED BY MANUFACTURER. TUBING SHALL BE INSTALLED IN MAXIMUM PRACTICAL LENGTHS, AS DIRECTLY AS POSSIBLE TO REMOTE MANIFOLD WITH MINIMUM FITTINGS. TUBING SHALL BE SUPPORTED IN A MATTER THAT DOES NOT DAMAGE TUBING AND ALLOWS FOR THERMAL EXPANSION. SUPPORTS SHALL BE SPACED AT 32" MINIMUM HORIZONTALLY AND 60" VERTICALLY AND WITHIN 6" OF FITTINGS OR BENDS. USE BEND SUPPORTS AT 90 DEGREE BENDS. PROTECT INSTALLED TUBING FROM DAMAGE. INSTALL METAL PLATES WHERE TUBING PENETRATES STUDS AT FACE OF STUDS. REMOTE MANIFOLD TYPE FITTINGS SHALL BE UTILIZED AT BRANCHES IN ROOMS WHERE TUBING IS TERMINATED (MODIFIED HOME-RUN INSTALLATION TYPE). UTILIZE EXPANDER TOOLS RECOMMENDED BY MANUFACTURER FOR CONNECTION OF TUBING TO FITTINGS. DO NOT OVER EXPAND TUBING. PIPE SHALL BE SUPPORTED AT FITTINGS AND FIXTURES AS RECOMMENDED BY MANUFACTURER. PIPING SHALL BE INSTALLED WITH MINIMUM AMOUNT OF FITTINGS. USE MANUFACTURER APPROVED VALVES, FITTINGS, HOSE BIBS AND BOXES AT FIXTURES.
27. SANITARY AND VENT PIPING GENERAL REQUIREMENTS
   A. PROVIDE NEW SANITARY LATERAL FROM BUILDING TO PUBLIC MAIN.
28. INTERIOR SANITARY AND VENT PIPING
   A. WHERE PIPING IS 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).
      1) ABOVEGROUND SANITARY, WASTE, AND VENT PIPING WITHIN MECHANICAL CLOSETS (PLENUMS) TO BE NO-HUB, CAST-IRON PIPE CONFORMING TO ASTM A74, ASTM A888, AND CISPI 301, 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).
   B. WHERE THE LOCAL AUTHORITY HAVING JURISDICTION ALLOWS THE USE OF INSULATION WITH THE REQUIRED FLAME AND SMOKE RATINGS TO PROTECT PVC PIPING INSTALLED IN PLENUMS, IT SHALL BE APPROVED.
   C. PVC PIPING INSTALLED IN PLENUM CHASES DESIGNED TO ALLOW AIR MOVEMENT SHALL BE COMPLETELY WRAPPED WITH A MATERIAL MEETING THE REQUIRED FLAME-SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM E 84 OR UL 723.
   D. UNDERGROUND SANITARY AND WASTE 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.
29. STORM PIPING GENERAL REQUIREMENTS
   A. PROVIDE NEW STORM LATERAL FROM BUILDING TO PUBLIC MAIN.
30. INTERIOR STORM PIPING
   A. WHERE PIPING IS INSTALLED IN A PLENUM, STORM 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).
   B. WHERE THE LOCAL AUTHORITY HAVING JURISDICTION ALLOWS THE USE OF INSULATION WITH THE REQUIRED FLAME AND SMOKE RATINGS TO PROTECT PVC PIPING INSTALLED IN PLENUMS, IT SHALL BE APPROVED.
   C. ABOVEGROUND STORM WITHIN MECHANICAL CLOSETS (PLENUMS) TO BE NO-HUB, CAST-IRON PIPE CONFORMING TO ASTM A74, ASTM A888, AND CISPI 301, 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. UNDERGROUND STORM PIPING WITHIN BUILDINGS 16" AND UNDER SHALL BE SCHEDULE 40 PVC PIPING AND FITTINGS CONFORMING TO ASTM D 2665, SOLID-WALL DRAIN PIPING WITH PVC SOCKET SOLVENT WELD FITTINGS CONFORMING TO ASTM D2665, MADE TO ASTM D3311, DRAIN, WASTE, AND VENT PATTERNS.
31. NATURAL GAS PIPING GENERAL REQUIREMENTS
   A. PROVIDE NEW GAS SERVICE FROM THE PUBLIC MAIN TO THE BUILDING AND PROVIDE NEW GAS METER SIZED FOR THE TOTAL CONNECTED LOAD.
   B. PROVIDE GAS REGULATORS AT GAS-FIRED EQUIPMENT TO REDUCE PRESSURE TO THE PRESSURE RECOMMENDED BY THE EQUIPMENT MANUFACTURER.
   C. PROVIDE GAS PIPING RUN-OUTS TO ALL GAS-FIRED EQUIPMENT. PIPING SHALL BE INSTALLED FULL-SIZE TO EACH UNIT'S GAS INLET CONNECTION, BURNER, REGULATOR, ETC. PROVIDE AND INSTALL GAS COCK AND MAKE FINAL CONNECTIONS. CONNECTIONS TO EACH GAS-FIRED EQUIPMENT ITEM MUST INCLUDE A DRIP LEG AND SHUTOFF GAS COCK. COMPLY WITH EQUIPMENT MANUFACTURER'S INSTRUCTION. FOR CONNECTIONS TO GAS-FIRED ROOFTOP EQUIPMENT, INCLUDE THE ROOF PENETRATION AND INSTALL THE GAS PIPING THROUGH THE ROOF IN A LOCATION THAT HAS BEEN COORDINATED WITH THE MECHANICAL CONTRACTOR.
   D. PAINT ALL EXTERIOR METAL PIPING, VALVES, SERVICE REGULATORS, SERVICE METERS AND METER BARS, AND ASSOCIATED PIPING SPECIALTIES WITH A RUST-INHIBITIVE PRIMER AND EXTERIOR-GRADE PAINT. COORDINATE COLOR WITH ARCHITECT.
32. GAS SERVICE PIPING
   A. NEW SERVICE DELIVERY PRESSURE SHALL BE 7" WATER COLUMN.
   B. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH WORK PROVIDED BY THE UTILITY COMPANY, INCLUDING TAP FEES, INSTALLATION COSTS, ROAD CUTS, AND BORES IF APPLICABLE.
   C. ALL EXTERIOR GAS PIPING SHALL BE MEDIUM DENSITY POLYETHYLENE PLASTIC PIPING APPROVED BY THE LOCAL UTILITY COMPANY.
33. INTERIOR ABOVE-GROUND GAS PIPING
   A. SCHEDULE 40 STEEL PIPE, ASTM A53.
      1) PIPING 2" AND UNDER SHALL BE JOINED BY EITHER THREADED FITTINGS OR COLD PRESS MECHANICAL JOINT FITTINGS WHERE APPROVED BY THE AUTHORITY HAVING JURISDICTION. 2-1/2", 3", AND 4" PIPING CAN BE THREADED OR WELDED. PIPING LARGER THAN 4" SHALL BE WELDED.
      2) MALLEABLE-IRON THREADED FITTINGS: ASME B16.3, CLASS 150, STANDARD PATTERN.
      3) WHERE APPROVED BY THE AUTHORITY HAVING JURISDICTION, COLD PRESS MECHANICAL JOINT FITTINGS ARE ACCEPTABLE AND SHALL CONFORM TO MATERIAL REQUIREMENTS OF ASTM A420 OR ASME B16.3 AND PERFORMANCE CRITERIA ANSI LC-4/CSA 6.32. COLD PRESS MECHANICAL JOINT FITTINGS SHALL BE EQUAL TO VIEGA MEGAPRESS G, WITH HNBR SEALING ELEMENTS FOR PRESS FITTINGS. SEALING ELEMENTS SHALL BE FACTORY INSTALLED OR AN ALTERNATIVE SUPPLIED BY FITTING MANUFACTURER. PRESS ENDS SHALL BE DESIGNED TO ASSURE LEAKAGE OF LIQUIDS AND/OR GASES FROM INSIDE THE SYSTEM PAST THE SEALING ELEMENT OF AN UN-PRESSED CONNECTION. THE FUNCTION OF THIS FEATURE IS TO PROVIDE THE INSTALLER QUICK AND EASY IDENTIFICATION OF CONNECTIONS WHICH HAVE NOT BEEN PRESSED PRIOR TO PUTTING THE SYSTEM INTO OPERATION.
      4) WROUGHT-STEEL WELDING FITTINGS: ASTM A 234/A 234M FOR BUTT WELDING AND SOCKET WELDING.
34. 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).
35. BACKFLOW PREVENTERS
   A. PROVIDE REDUCED PRESSURE BACKFLOW PREVENTER ON WATER SERVICE ENTRANCE.
   B. BACKFLOW PREVENTERS FOR 2-1/2" AND LARGER WATER SERVICES - PROVIDE REDUCED PRESSURE BACKFLOW PREVENTER ON WATER SERVICE MAIN WHERE THE WATER SERVICE ENTERS THE BUILDING. REDUCED PRESSURE BACKFLOW PREVENTER SHALL BE EQUAL TO WATTS SERIES LF957NRS. APPROVED MANUFACTURERS OF EQUAL PRODUCTS SHALL BE CONBRACO AND WILKINS.
36. HOSE BIBS
   A. HOSE BIBS TO BE EQUAL TO WOODFORD MODEL ½" 24P OR APPROVED EQUAL WITH VACUUM BREAKER. PROVIDE HOSE BIB "LESS HANDLE", AND PROVIDE "OPTIONAL LOOSE TEE KEY". APPROVED MANUFACTURERS OF EQUAL PRODUCTS TO BE ZURN, WADE, JOSAM, SMITH, OR WATTS.
37. WALL HYDRANTS
   A. WALL HYDRANTS TO BE EQUAL TO ¾" WOODFORD MODEL B-67, WITH CHROME FINISH ON BRASS CASTING, WITH BOX AND HINGED DOOR, AND LOOSE-TEE KEY. CONCEAL WITHIN INTERIOR PARTITIONS AND/OR INSTALL IN A MANNER THAT PREVENTS FREEZING. FURNISH TO OWNER, ONE VALVE KEY FOR EACH KEY OPERATED WALL HYDRANT INSTALLED. APPROVED MANUFACTURERS OF EQUAL PRODUCTS SHALL BE ZURN, WADE, JOSAM, SMITH, OR WATTS.
38. ROOF HYDRANTS
   A. WHERE MECHANICAL EQUIPMENT IS INSTALLED ON THE ROOF, PROVIDE FREEZELESS ROOF HYDRANTS WITHIN 100' OF ALL EQUIPMENT. ROOF HYDRANT SHALL BE EQUAL TO WOODFORD MODEL SRH-MS, COMPLETE SYSTEM WITH ¾" THREADED HOSE BIB, ASSE 1052 DOUBLE CHECK BACKFLOW PREVENTER, AND MOUNTING HARDWARE. APPROVED MANUFACTURERS OF EQUAL PRODUCTS SHALL BE WOODFORD, ZURN, WADE, JOSAM, SMITH, OR WATTS.
39. WATER HAMMER ARRESTORS
   A. REMOVE SHOCK CONDITIONS FROM ALL PIPING. PROVIDE AND INSTALL WATER HAMMER ARRESTORS/SHOCK ABSORBERS ON ALL PIPING SERVING FLUSH VALVE FIXTURES, CLOTHES WASHER SUPPLY BOXES, COMMERCIAL WASHER SUPPLY LINES, AND OTHER EQUIPMENT WITH QUICK-CLOSING VALVES. WATER HAMMER ARRESTORS SHALL BE PROVIDED PER PLUMBING AND DRAINAGE INSTITUTE STANDARD PDI-WH 201.
40. TRAP SEAL PROTECTION
   A. TRAP SEALS SUBJECT TO EVAPORATION SHALL BE PROTECTED BY ONE OF THE METHODS BELOW, AS APPROVED BY THE LOCAL PLUMBING AUTHORITY HAVING JURISDICTION:
      1) POTABLE WATER-SUPPLIED TRAP SEAL PRIMER VALVE - A POTABLE WATER-SUPPLIED TRAP SEAL PRIMER VALVE MUST SUPPLY WATER TO THE TRAP. WATER-SUPPLIED TRAP SEAL PRIMERS MUST CONFORM TO ASSE 1018. THE DISCHARGE PIPE FROM THE TRAP SEAL PRIMER MUST CONNECT TO THE TRAP ABOVE THE TRAP SEAL ON THE INLET SIDE OF THE TRAP.
      2) BARRIER-TYPE TRAP SEAL PROTECTION DEVICE - A BARRIER-TYPE TRAP SEAL PROTECTION DEVICE MUST PROTECT THE TRAP SEAL FROM EVAPORATION. BARRIER-TYPE TRAP SEAL PROTECTION DEVICES MUST CONFORM TO ASSE 1072. THE DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
41. ROOF DRAINS
   A. PROVIDE NEW PRIMARY AND SECONDARY ROOF DRAINS AND ASSOCIATED PRIMARY AND SECONDARY STORM PIPING SYSTEMS WHERE INTERIOR DRAINS ARE SHOWN ON ARCHITECTURAL ROOF PLAN. SECONDARY ROOF DRAINS SHALL BE PIPED INDEPENDENTLY FROM THE PRIMARY SYSTEM AND MUST DISCHARGE THROUGH DOWNSPOUT NOZZLES LOCATED IN THE EXTERIOR WALL AT GRADE.
   B. ROOF DRAINS SHALL HAVE CAST IRON BODY AND CAST IRON DOME.
42. DOWNSPOUT NOZZLES FOR SECONDARY ROOF DRAINAGE
   A. DOWNSPOUT NOZZLES FOR SECONDARY DRAINAGE DISCHARGING TO GRADE MUST HAVE NICKEL-BRONZE BODY AND REMOVABLE STAINLESS-STEEL SCREEN EQUAL TO ZURN Z199-SS.
43. CLEANOUTS
   A. PROVIDE FLOOR AND WALL CLEANOUTS WHERE REQUIRED IN ALL SOIL, WASTE, DRAIN AND STORM PIPING. IN AREAS WITH CERAMIC TILE OR CARPETED FLOORING, PROVIDE CLEANOUTS WITH SQUARE, ADJUSTABLE, NICKEL BRONZE TOP. IN AREAS WITH RESILIENT FLOORING, PROVIDE CLEANOUTS WITH SQUARE, ADJUSTABLE, NICKEL BRONZE TOP WITH TILE RECESS. CLEANOUTS SHALL BE SAME SIZE AS PIPE EXCEPT THAT CLEANOUTS LARGER THAN 4" WILL NOT BE REQUIRED. WHERE CLEANOUTS OCCUR IN WALLS OF FINISHED AREAS, THEY SHALL BE CONCEALED BEHIND CHROME PLATED ACCESS COVERS.
44. INSULATION
   A. INSULATION SHALL BE PROVIDED WITH A CONTINUOUS, VAPOR TIGHT SEAL. INSULATION SHALL BE CONTINUOUS THROUGH 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 SPREAD DEVELOPED, UNLESS OTHERWISE REQUIRED BY THE LOCAL AUTHORITY OR ENERGY CODES.
   B. THE MINIMUM INSULATION LEVELS SHALL BE AS FOLLOWS:
      1) DOMESTIC HOT WATER - 1" ELASTOMERIC
      2) DOMESTIC HOT WATER RETURN - 1" ELASTOMERIC
      3) CAST IRON HORIZONTAL STORM PIPING - 1" ELASTOMERIC
      4) ROOF DRAIN SUMPS - 1" ELASTOMERIC
45. ELEVATOR PIT SUMP PUMP
   A. ELEVATOR PUMP SYSTEM TO BE EQUAL TO TOPP INDUSTRIES #B22ELE, 18" X 22" BASIN WITH PERFORATED STEEL COVER, AND ZOELLER 98 PUMP, ½ HP, 115 VOLT WITH 1½" DISCHARGE, FLOAT VALVE, AND CHECK VALVE. AVAILABLE MANUFACTURERS INCLUDE ZOELLER, WEIL PUMPS, LIBERTY PUMPS, ARMSTRONG, DAYTON, BARNES, OR GORMAN RUPP CO.
46. EXPANSION TANKS
   A. WHERE A BACKFLOW PREVENTER IS PROVIDED UPSTREAM OF THE WATER HEATER, PROVIDE EXPANSION TANK FOR THE HEATING SYSTEM. SIZE ACCORDING TO THE SYSTEM VOLUME, PRESSURES, TEMPERATURES, AND RECOMMENDATIONS OF WATER HEATER MANUFACTURER.
47. PLUMBING FIXTURE GENERAL REQUIREMENTS
   A. SHUT OFF VALVES/STOPS SHALL BE PROVIDED AT ALL LAVATORIES, SINKS AND WATER CLOSETS.
   B. ALL WALL-HUNG PLUMBING FIXTURES, INCLUDING, BUT NOT LIMITED TO WATER CLOSETS, URINALS, LAVATORIES, AND SINKS SHALL BE ANCHORED TO THE FLOOR WITH CONCEALED IN-WALL CARRIERS. WALL-HUNG FIXTURES SHALL NOT BE SIMPLY BOLTED TO THE WALL OR ANCHORED TO WOOD BLOCKING.
   C. COORDINATE COLOR OF FIXTURES WITH ARCHITECT. FIXTURES SHALL BE WHITE UNLESS OTHERWISE NOTED.
   D. PROVIDE ADA COMPLIANT FIXTURES WHERE INDICATED ON THE ARCHITECTURAL PLANS. PROVIDE OFFSET FIXTURE TAILPIECES AND TRAPS WHERE REQUIRED TO MEET ADA LEG CLEARANCES.
   E. FIXTURES SHALL BE SECURELY FASTENED TO PREVENT ANY MOVEMENT OF FIXTURE DURING NORMAL USE. SEAL TO WALL, FLOOR OR COUNTERTOP WITH SILICONIZED ACRYLIC-LATEX CAULK.
48. WATER SUPPLY BOXES
   A. PROVIDE WATER SUPPLY BOXES FOR REFRIGERATOR ICE MAKERS.
   B. PROVIDE WATER SUPPLY BOXES FOR COFFEE MAKERS.
   C. WATER SUPPLY BOXES SHALL BE FIRE-RATED WHERE INSTALLED IN FIRE-RATED WALLS.
49. CLOTHES WASHER SUPPLY AND DRAIN BOXES
   A. CLOTHES WASHER SUPPLY AND DRAIN BOXES SHALL BE FIRE-RATED WHERE INSTALLED IN FIRE-RATED WALLS.
   B. PROVIDE BRAIDED STEEL HOSES FOR HOT AND COLD WATER SUPPLIES TO ALL CLOTHES WASHERS WHERE NOT PROVIDED WITH THE APPLIANCE.
   C.

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CERTIFICATION
STATE OF OHIO SCOTT SEVERT STILKEY E-77755 REGISTERED PROFESSIONAL ENGINEER

REVISIONS

#	DATE	DESCRIPTION
1	01/09/2026	80% PROGRESS SET
2	01/30/2026	PERMIT ISSUE

PROJECT #: 6568
DRAWN: JWG CHECKED: KAS

PLUMBING SPECIFICATION

P601

MECHANICAL ABBREVIATIONS:

AC	AIR CONDITIONER
ACH	AIR CHANGES PER HOUR
AF	AIR FILTER
AHU	AIR HANDLING UNIT
APD	AIR PRESSURE DROP
BAS	BUILDING AUTOMATION SYSTEM
BHP	BRAKE HORSEPOWER
BTU	BRITISH THERMAL UNIT
BTUH	BTU(S) PER HOUR
CC	COOLING COIL
CF	CUBIC FEET
CFH	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
CH	CHILLER
CO	CLEANOUT
CT	COOLING TOWER
CU	CONDENSING UNIT
CUH	CABINET UNIT HEATER
CV	CONSTANT AIR VOLUME
DAT	DISCHARGE AIR TEMPERATURE
DB	DECIBEL OR DRY BULB TEMPERATURE
DDC	DIRECT DIGITAL CONTROL
DH	DUCT HEATER
DX	DIRECT EXPANSION
EAT	ENTERING AIR TEMPERATURE
EER	ENERGY EFFICIENCY RATIO
EF	EXHAUST FAN
ESP	EXTERNAL STATIC PRESSURE
ET	EXPANSION TANK
EWT	ENTERING WATER TEMPERATURE
FA	FREE AREA
FC	FAN COIL
FD	FIRE DAMPER
FH	FUME HOOD
FPB	FAN POWERED BOX
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FS	FREEZE STAT
FSD	COMBINATION FIRE/SMOKE DAMPER
GA	GAUGE
GAL	GALLON
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
H	HUMIDISTAT
HC	HEATING COIL
HD	HOOD OR HEAT DETECTOR
HEPA	HIGH EFFICIENCY PARTICULATE AIR FILTER
HP	HORSEPOWER OR HEAT PUMP
HR	HOUR
HUM	HUMIDIFIER
HX	HEAT EXCHANGER
HZ	HERTZ
IN W.C.	INCHES WATER COLUMN
IN W.G.	INCHES WATER GAUGE
KW	KILOWATT
KWH	KILOWATT HOUR
LAT	LEAVING AIR TEMPERATURE
LBS	POUNDS
LWT	LEAVING WATER TEMPERATURE
MBH	THOUSAND BTUH
NC	NORMALLY CLOSED
NK	NECK
NO	NORMALLY OPEN
P	PUMP
PA	PASCAL
PH	PHASE
PRV	PRESSURE REDUCING VALVE
PSIA	POUNDS PER SQUARE INCH ABSOLUTE
PSIG	POUNDS PER SQUARE INCH GAUGE
RF	RETURN FAN
RH	RELATIVE HUMIDITY
RHC	REHEAT COIL
RO	RELIEF OPENING
RPM	REVOLUTIONS PER MINUTE
SAT	SUPPLY AIR TEMPERATURE
SD	SMOKE DAMPER OR SMOKE DETECTOR
SF	SQUARE FEET OR SUPPLY FAN
SPS	STATIC PRESSURE SENSOR
T	THERMOSTAT
TD	TEMPERATURE DIFFERENCE
TO	TRANSFER OPENING
UC	UNDERCUT (DOOR)
UH	UNIT HEATER
VAV	VARIABLE AIR VOLUME
VD	VOLUME DAMPER
VFD	VARIABLE FREQUENCY DRIVE
VSD	VARIABLE SPEED DRIVE
VTR	VENT THROUGH ROOF
W	WATT
WB	WET BULB TEMPERATURE
WC	WATER COLUMN
WPD	WATER PRESSURE DROP

MECHANICAL EQUIPMENT:

VAV BOX WITH ELECTRIC REHEAT

MECHANICAL TAGS:

VISIBLE DIMENSION

x ## XX — DUCT DIMENSIONS (CLEAR, INTERNAL)

SYSTEM ABBREVIATION

TYPE:
S - SUPPLY
R - RETURN
E - EXHAUST
T - TRANSFER

SIZE (OPTIONAL)

X# (# x #) / ### — DIFFUSER TAG

AIR FLOW RATE

MARK

X / X — MECHANICAL EQUIPMENT TAG

NUMBER

GENERAL ABBREVIATIONS:

A/E	ARCHITECT/ENGINEER
ABV	ABOVE
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
ALT	ALTERNATE
ARCH	ARCHITECT
BFG	BELOW FINAL GRADE
BLDG	BUILDING
CLG	CEILING
DIR	DIRECT
DISC	DISCONNECT
DN	DOWN
EC	ELECTRICAL CONTRACTOR
ELEV	ELEVATION REFERENCE
EM	EMERGENCY
EP	EXPLOSION PROOF
EWC	ELECTRIC WATER COOLER
F	FLUSH
FBO	FURNISHED BY OTHERS
FIXT	FIXTURE
FLA	FULL LOAD AMPS
FLR	FLOOR
FS	FLOW SWITCH
GC	GENERAL CONTRACTOR
GRD	GROUND
GYP	GYPSUM BOARD
HC	HEATING CONTRACTOR
HVAC	HEATING & VENTILATING - AIR CONDITIONING
HVC	HEATING VENTILATING CONTRACTOR
HW	HEAVYWALL
ID	INDIRECT
IL	INTERLOCK
IU	IN UNIT
J-BOX	JUNCTION BOX
LG	LAY-IN GRID
LTG	LIGHTING
LV	LOW VOLTAGE
LVT	LINE VOLTAGE THERMOSTAT
MC	MECHANICAL CONTRACTOR
MCA	MINIMUM CIRCUIT AMPS
MOCP	MAXIMUM OVERCURRENT PROTECTION
MTD	MOUNTED
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
PLBG	PLUMBING CONTRACTOR
RM	ROOM
SURF	SURFACE
TS	TAMPER SWITCH
TYP	TYPICAL
UG	UNDERGROUND
VC	VENTILATION CONTRACTOR

DUCT SYSTEM ABBREVIATIONS:

CA	COMBUSTION AIR
CV	COMBUSTION VENT
EA-AII	EXHAUST AIR - AIRBORNE INFECTIOUS ISOLATION
EA-CH	EXHAUST AIR - CHEMICAL
EA-D	EXHAUST AIR - DRYER
EA	EXHAUST AIR - ENVIRONMENTAL
EA-K1	TYPE 1 - KITCHEN EXHAUST
EA-K2	TYPE 2 - KITCHEN EXHAUST
OA	OUTDOOR AIR
RA	RETURN AIR
SA	SUPPLY AIR

DUCT SYSTEMS:

BD-#	BACKDRAFT DAMPER
FD-#	FIRE DAMPER
SD-#	SMOKE DAMPER
FSD-#	COMBINATION FIRE SMOKE DAMPER
MD-#	MOTORIZED DAMPER
	VOLUME DAMPER
	SIDEWALL GRILLE
	CEILING DIFFUSER, SUPPLY 4-WAY BLOW PATTERN
	CEILING DIFFUSER, SUPPLY 3-WAY BLOW PATTERN
	CEILING DIFFUSER, SUPPLY 2-WAY BLOW PATTERN
	CEILING DIFFUSER, SUPPLY 1-WAY BLOW PATTERN
	CEILING DIFFUSER, RETURN
	CEILING DIFFUSER, EXHAUST
UC	DOOR UNDERCUT
	DUCT SECTION, SUPPLY
	DUCT SECTION, RETURN
	DUCT SECTION, EXHAUST
	FLEXIBLE DUCT
	DIRECTION OF AIR FLOW
	DUCT SIZE TRANSITION
	RECTANGULAR ELBOW DOWN - SINGLE LINE
	ROUND ELBOW DOWN - SINGLE LINE
	RECTANGULAR ELBOW UP - SUPPLY
	RECTANGULAR ELBOW DOWN - SUPPLY
	ROUND ELBOW UP - SUPPLY
	ROUND ELBOW DOWN - SUPPLY
	RECTANGULAR ELBOW UP - RETURN
	RECTANGULAR ELBOW DOWN - RETURN
	ROUND ELBOW UP - RETURN
	ROUND ELBOW DOWN - RETURN
	RECTANGULAR ELBOW UP - EXHAUST
	RECTANGULAR ELBOW DOWN - EXHAUST
	ROUND ELBOW UP - EXHAUST
	ROUND ELBOW DOWN - EXHAUST
	MITERED ELBOW
	MITERED ELBOW WITH TURNING VANES
	ACCESS DOOR - TOP/SIDE
	AIR FLOW MEASURING STATION
	SOUND ATTENUATOR
	FLEXIBLE CONNECTION

HVAC SENSORS:

SD	SMOKE DETECTOR
SP	STATIC PRESSURE
T	THERMOSTAT
TS	TEMPERATURE

PROJECT DESIGN CONDITIONS:

CLIMATE CONDITIONS:

WEATHER STATION:	CINCINNATI, OH, USA
CLIMATE ZONE:	4A
HEATING (DB): 99.6%	0 °F
COOLING	93 °F / 75 °F

BUILDING OPERATING HOURS: DETERMINED BY THE OWNER

SET POINTS:

COOLING (OCC/UNOCC):	74 °F / 80 °F
HEATING (OCC/UNOCC):	72 °F / 60 °F

MECHANICAL SHEET INDEX:

SHEET NO.	SHEET NAME
M000	MECHANICAL LEGEND
M101	MECHANICAL FIRST FLOOR
M102	MECHANICAL SECOND FLOOR
M103	MECHANICAL ROOF
M300	MECHANICAL DETAILS
M301	MECHANICAL DETAILS
M302	MECHANICAL DETAILS

GENERAL NOTES

1. THESE PLANS ARE DIAGRAMMATIC IN NATURE SINCE THEY REFLECT ONLY THE AVAILABLE INFORMATION OBTAINED FROM EXISTING PLANS, SPECIFICATIONS, AND FIELD SURVEYS. THE EXACT LOCATION OF EXISTING DUCTWORK, PIPING, AND EQUIPMENT MAY DEVIATE FROM THE LOCATION INDICATED ON THE DRAWINGS. THE CONTRACTOR SHALL BE PREPARED TO MAKE SOME ALTERATIONS TO NEW AND/OR EXISTING SERVICES TO FIT ACTUAL JOB CONDITIONS.
2. THE SPACE ALLOWED FOR MECHANICAL (H/VAC, PLUMBING, FIRE PROTECTION) AND ELECTRICAL WORK ABOVE THE SUSPENDED CEILING IS CRITICAL AND REQUIRES COORDINATION BETWEEN TRADES. CONTRACTORS SHALL THOROUGHLY FAMILIARIZE THEMSELVES WITH THE ARCHITECTURAL, STRUCTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS PRIOR TO FABRICATION OR INSTALLATION OF ANY MATERIALS. DUCTWORK SHALL BE HUNG AS CLOSE AS POSSIBLE TO THE STRUCTURE ABOVE UNLESS INDICATED OTHERWISE. REWORK OF PIPING, DUCTWORK, EQUIPMENT LOCATION, CONDUIT, ETC. AS A RESULT OF POOR PLANNING, COORDINATION, OR SCHEDULING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
3. PIPES/DUCTS/ETC. PENETRATING EXTERIOR WALLS AND ROOFS SHALL BE SEALED WEATHER PROOF.
4. PROVIDE OPENING IN DRY WALL ABOVE CEILING TO ALLOW SUPPLY AIR TO RETURN TO HEAT PUMPS OR AIR HANDLERS.
5. REFRIGERANT PIPING TO BE SIZED BY EQUIPMENT MANUFACTURER AND INSTALLED PER THE MANUFACTURER'S INSTALLER'S GUIDE. CONTRACTOR TO SUBMIT DRAWINGS SHOWING ROUTING. SEE SPECIFICATIONS.
6. THERMOSTATS & ROOM TEMPERATURE SENSORS SHALL BE MOUNTED AT 48" A.F.F. TO THE TOP OF THERMOSTAT UNLESS NOTED OTHERWISE. DO NOT MOUNT IN DIRECT SUNLIGHT OR NEAR HEAT PRODUCING EQUIPMENT.
7. INSTALL H.V.A.C. SYSTEM IN ACCORDANCE WITH ALL STATE AND LOCAL CODES.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION OF ANY FRAMING REVISIONS, EQUIPMENT LOCATIONS, ADDITION OF CONTROLS, ELECTRICAL CIRCUITING REVISIONS, ETC. THAT RESULT FROM USING EQUIPMENT OTHER THAN INDICATED ON THE DRAWINGS. APPROVAL OF THE SHOP DRAWINGS BY THE ENGINEER WILL NOT WAIVE THE CONTRACTOR OF THIS RESPONSIBILITY.
9. THE CONTRACTOR SHALL HAVE THE FINAL RESPONSIBILITY FOR SYSTEM START UP AND TURN OVER TO THE OWNER.
10. ALL ITEMS INCLUDED ON THESE DRAWINGS AND THE SPECIFICATIONS SHALL BE INCLUDED IN THE CONTRACTORS BID. IF THE CONTRACTOR DOES NOT CLEARLY UNDERSTAND THESE PLANS OR IS NOT SURE OF THEIR MEANING, THE CONTRACTOR SHOULD OBTAIN THE ENGINEER'S WRITTEN EXPLANATION AND INTERPRETATION PRIOR TO BID TIME. THE CONTRACTOR WILL BE HELD TO THE INTERPRETATION OF THE ENGINEER.
11. FIRE CAULK ALL PENETRATIONS THRU FIRE RATED PARTITIONS TO MAINTAIN FIRE RATING OF PARTITION.
12. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE ALL TEMPERATURE CONTROL SYSTEM REQUIREMENTS.
13. ANY DAMAGE TO THE SITE (SIDEWALKS, CURBS, ETC) OR TO THE BUILDING AS A RESULT OF WORK PERFORMED UNDER THIS CONTRACT SHALL BE FIXED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
14. CONTRACTOR WILL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING OF ROOFS/WALLS/FLOORS AND CORE DRILLS REQUIRED TO COMPLETE THEIR RESPECTIVE WORK.
15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ANY TEMPORARY FENCING AROUND THE LIFT SITE DURING LIFTS.
16. REMOVE AND RE-INSTALL EXISTING LAY-IN CEILING AS REQUIRED TO COMPLETE ALL DEMOLITION AND NEW WORK. REPLACE CEILING TILES DAMAGED DURING CONSTRUCTION WITH NEW TILES MATCHING EXISTING.

GENERAL NOTES (ROOF PROTECTION)

1. THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE A MINIMUM OF SEVEN DAYS PRIOR TO THE BEGINNING OF WORK THAT INVOLVES ACTIVITY ON THE ROOF.
2. TRAFFIC OVER THE ROOF SURFACES SHALL BE KEPT TO AN ABSOLUTE MINIMUM.
3. THE CONTRACTOR AND THE OWNER'S REPRESENTATIVE SHALL INSPECT THE EXPOSED ROOFING MEMBRANE SYSTEM PRIOR TO THE START OF CONSTRUCTION. ANY PREVIOUS DAMAGE OR DEFECTS OF THE ROOFING SYSTEM SHALL BE DOCUMENTED BY WRITING AND/OR PHOTOGRAPHS.
4. THE CONTRACTOR SHALL PLACE MINIMUM OF 48" WIDE, 1/2" THICK APPROVED PROTECTION BOARDS (1 LAYER) MADE OF CONSTRUCTION GRADE PLYWOOD (ORIENTED STRAND BOARD WILL BE ACCEPTABLE) OVER ALL MEMBRANE ROOFING THAT WILL HAVE CONSTRUCTION TRAFFIC. THIS ROOF PROTECTION SHALL BE PROVIDED FOR THE ENTIRE AREA WITHIN THE LIMITS OF THE WORK (SEE DRAWINGS THIS SHEET). SUCH PROTECTION SHALL ALSO BE PROVIDED IN THE FORM OF A WALKWAY FROM THE ROOF ACCESS DOOR TO THE PROTECTED CONSTRUCTION AREA.
5. STORAGE OF MATERIALS ON EXISTING ROOF WILL NOT BE ALLOWED.
6. THE CONTRACTOR SHALL REMOVED DAILY ALL PROJECT DEBRIS FROM ALL ROOFING SURFACES.
7. THE CONTRACTOR SHALL ADVISE THE OWNER'S REPRESENTATIVE WHEN WORK ON THE ROOF IS COMPLETE AND THE PROTECTION BOARDS HAVE BEEN REMOVED. THE CONTRACTOR AND THE OWNER'S REPRESENTATIVE SHALL EXAMINE ALL ROOF SURFACES WHERE WORK HAS OCCURRED AND WILL REPAIR ALL DEFECTS NOT PREVIOUSLY DOCUMENTED.
8. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE BUILDING, ROOF, STRUCTURAL FRAMING, ETC. INCURRED DURING CONSTRUCTION.
9. CONTRACTOR SHALL UTILIZED A LICENSED APPLICATOR OF THE EXISTING ROOFING SYSTEM TO REPAIR ANY AND ALL DAMAGE INCURRED DURING THE COURSE OF CONSTRUCTION.
10. THE CONTRACTOR SHALL VERIFY WARRANTY OF THE MEMBRANE ROOFING SYSTEM. THE CONTRACTOR SHALL UTILIZE A LICENSED APPLICATOR OF THE EXISTING ROOFING SYSTEM TO PERFORM ALL ROOFING WORK AND TO REPAIR ANY AND ALL DAMAGE. UPON COMPLETION, THE CONTRACTOR SHALL OBTAIN A LETTER FROM THE ROOF MANUFACTURER STATING THAT THE EXISTING WARRANTY REMAINS IN FULL FORCE AND EFFECT.

GENERAL NOTES (AIR SIDE)

1. NOTE, ALL DUCTWORK OFFSETS ARE NOT SHOWN. THE CONTRACTOR SHALL MODIFY DUCTS AND OFFSETS TO COORDINATE WITH THE BUILDING STRUCTURE AND ALL TRADE REQUIREMENTS.
2. ALL DUCTWORK SHALL BE CONSTRUCTED AND INSTALLED PER THE LATEST VERSION OF THE S.M.A.C.N.A. H.V.A.C. DUCT CONSTRUCTION STANDARDS, UNLESS SPECIFIED MORE STRINGENTLY IN THESE CONSTRUCTION DOCUMENTS. MINIMUM DUCT GAUGE SHALL BE 24.
3. ALL 90° AND 45° RECTANGULAR RADIUS ELBOWS TO BE FABRICATED WITH AN INSIDE RADIUS NO LESS THAN 1/2 OF THE WIDTH OF THE DUCT - WHERE THE WIDTH OF THE DUCT IS DEFINED AS THE DIMENSION OF THE DUCT IN THE PLANE IN WHICH THE DUCT IS TURNING.
4. RECTANGULAR DUCTWORK SHALL BE SUPPORTED PER THE S.M.A.C.N.A STANDARDS AND AT EACH CHANGE IN DIRECTION.
5. PROVIDE MANUAL, SINGLE BLADE, BALANCING DAMPERS WITH LOCKING QUADRANT AND INTEGRAL POSITION INDICATOR ON ALL RUNOUTS TO SUPPLY AND EXHAUST AIR DEVICES - EXCEPT THOSE LOCATED IN AREAS WITH PLASTER CEILINGS AND ARE NOT ACCESSIBLE (DAMPER SHALL BE INTEGRAL WITH THE AIR DEVICE IN THESE CASES.)
6. PROVIDE MANUAL OPPOSED BLADE DAMPERS WITH LOCKING QUADRANT AND INTEGRAL POSITION INDICATOR ON ALL RECTANGULAR BRANCH DUCTS AND AIR DEVICE RUNOUTS THAT EXCEED 12" IN HEIGHT.
7. MANUAL SPLITTER DAMPERS ARE NOT ACCEPTABLE.
8. NOT ALL OF THE ACCESS DOORS IN THE DUCT SYSTEMS OR PLENUMS ARE SHOWN. PROVIDE ACCESS DOORS IN ALL DUCT SYSTEMS OR PLENUMS WHERE REQUIRED TO ACCESS AND MAINTAIN MOTORIZED OR AUTOMATIC DAMPER BLADES AND LINKAGES.
9. ALL DUCTWORK SHALL BE SUPPORTED FROM ROOF OR FLOOR STRUCTURE ABOVE. DUCTWORK SHALL NOT LAY ON TOP OF CEILING OR LIGHT FIXTURES.
10. FLEXIBLE DUCT RUNOUTS TO AIR DEVICES SHALL NOT EXCEED 5'-0" IN LENGTH. FLEXIBLE RUNOUTS SHALL BE TRIMMED TO THE MINIMUM LENGTH NECESSARY TO MAKE THE CONNECTION.
11. WHERE DAMPER ACTUATORS ARE MOUNTED TO DUCTWORK OR PLENUMS PROVIDE A HEAVY GAGE BASE PLATE, ANGLE STIFFENERS, OR MOUNTING AS REQUIRED TO ELIMINATE DEFLECTION OF DUCTWORK DURING ACTUATOR OPERATION.
12. FLEXIBLE DUCT CONNECTIONS TO EQUIPMENT ARE NOT SHOWN ON THE DRAWINGS. PROVIDE EXTRA WIDE FLEXIBLE CONNECTIONS ON THE SUPPLY DUCT AND THE RETURN DUCT OF EACH MAKE-UP AIR UNIT, ROOFTOP UNIT, AND EACH AIR HANDLING UNIT. PROVIDE STANDARD FLEXIBLE CONNECTIONS ON ALL BLOWER COILS, EXHAUST FANS, SUPPLY FANS, AND DUST COLLECTOR.
13. PROVIDE 45° FLARED TAKEOFFS FOR ALL RECTANGULAR BRANCH CONNECTIONS TO THE MAIN DUCT.
14. ALL DAMPER ACTUATORS FOR DUCT SYSTEMS OR EQUIPMENT THAT COMMUNICATES DIRECTLY WITH THE OUTDOORS SHALL BE SPRING RETURN TYPE TO CLOSE IN THE EVENT OF A POWER FAILURE.
15. PROVIDE 1-1/2 HOUR RATED FIRE DAMPERS IN THE DUCTWORK WHERE INDICATED ON THE PLANS AND REQUIRED BY CODE. FIRE DAMPERS SHALL BE PROVIDED WITH AN ACCESS PANEL LARGE ENOUGH TO PERMIT INSPECTION AND MAINTENANCE OF THE DAMPER. ACCESS PANELS TO FIRE DAMPERS SHALL BE PERMANENTLY IDENTIFIED ON THE EXTERIOR BY A NAMEPLATE WITH THE WORDS "FIRE DAMPER". THE LETTERS ON THE FIRE DAMPER LABELS SHALL NOT BE LESS THAN 1/2 INCH IN HEIGHT.
16. THE SPACE ABOVE THE SUSPENDED CEILINGS SHALL BE USED AS A RETURN AIR PLENUM. IT IS THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR TO COORDINATE THE WORK OF OTHER TRADES TO PROVIDE ADEQUATE SPACE FOR THE FLOW OF RETURN AIR (250 FPM MAXIMUM VELOCITY). WHERE PARTITIONS EXTEND TO THE CONSTRUCTION ABOVE, OPENINGS SHALL BE PROVIDED IN THE PARTITION ABOVE THE CEILING.
17. DUCT DIMENSIONS NOTED ON THE DRAWINGS ARE NET FREE AREA. WHERE ACOUSTIC LINER IS INDICATED OR SPECIFIED THE SHEET METAL SIZE MUST BE INCREASED TO ACCOMMODATE THE LINER.
18. AREAS ABOVE THE CEILING SERVE AS A RETURN AIR PLENUM. ALL MATERIALS EXPOSED IN THE PLENUM SHALL HAVE A 25/50 SMOKE/FLAME SPREAD RATING.
19. ALL DUCT RUNOUTS TO AIR DEVICES ARE TO BE THE SAME SIZE AS THE NECK OF THE AIR DEVICE UNLESS NOTED OTHERWISE.
20. CONTRACTOR SHALL BALANCE EACH AREA OF COMPLETED WORK. THE CONTRACTOR SHALL BALANCE SUPPLY, RETURN, AND EXHAUST AIR FLOWS AT EACH AIR DEVICE AFFECTED BY RENOVATION TO QUANTITY INDICATED ON THE DRAWINGS.

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CERTIFICATION

STATE OF OHIO
SCOTT SEVERT STILKEY
E-77755
REGISTERED PROFESSIONAL ENGINEER

REVISIONS

#	DATE	DESCRIPTION
	01/30/2026	PERMIT ISSUE

PROJECT #: 6568

DRAWN: RTT **CHECKED:** SSS

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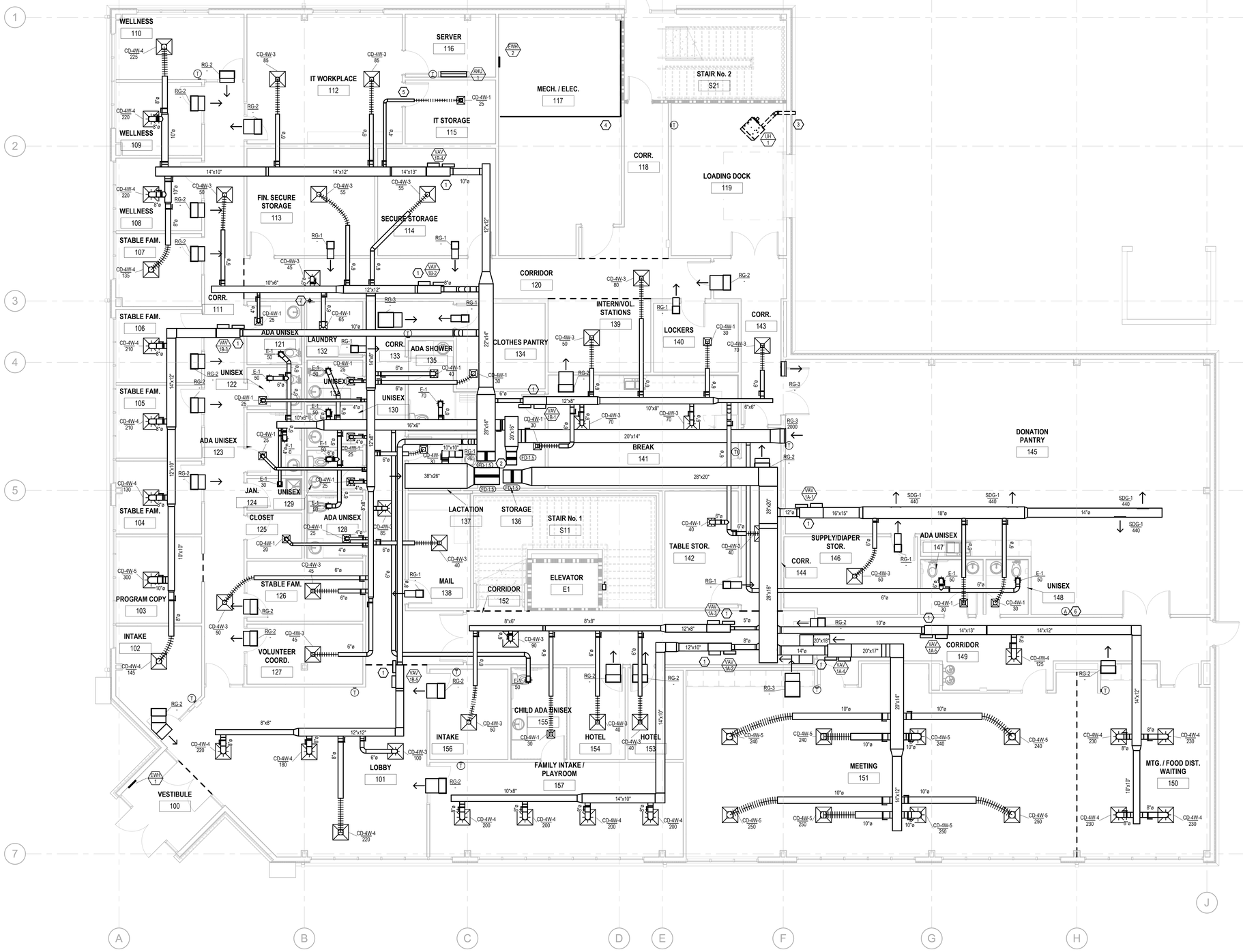
MECHANICAL LEGEND

M000

Keynote Legend	
Key Value	**Keynote Text**
1	HVAC EQUIPMENT SHALL BE CONNECTED TO AND CONTROLLED BY THE BAS SYSTEM. REFER TO BAS SYSTEM SPECIFICATIONS FOR CONNECTION, POINTS, AND CONTROL REQUIREMENTS.
2	SMOKE DAMPERS ARE NOT REQUIRED FOR SHAFT PENETRATIONS PER 2024 OHIO MECHANICAL CODE SECTION 607.5.5 EXCEPTION 6: SMOKE DAMPERS ARE NOT REQUIRED WHERE THE BUILDING IS EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH SECTION 903.3.1.1 OF THE BUILDING CODE.
3	ROUTE FLUE PIPE TO EXTERIOR WALL. THE PENETRATION MUST MEET THE FLOOWING REQUIREMENT: THE VENT SYSTEM SHALL TERMINATE NOT LESS THAN 4 FEET BELOW, 4 FEET HORIZONTALLY FROM OR 1 FOOT ABOVE ANY DOOR, WINDOW OR GRAVITY AIR INLET INTO THE BUILDING.
4	ROUTE 3/4" CONDENSATE DRAIN LINE TO MECHANICAL ROOM FLOOR DRAIN. SLOPE PIPE A MINIMUM OF 1/8 " PER FOOT AWAY FROM UNIT. REFER TO HILTI DETAIL FOR THROUGH WALL PENETRATION DETAIL.
5	UNDERCUT DOOR 1" ABOVE FINISHED FLOOR TO ALLOW FOR RETURN AIR FROM THE ROOM.
6	PROVIDE AVERAGING SENSOR IN PANTRY. CONNECT TO MAIN THERMOSTAT IN ROOM.
7	DUCT DRYER EXHAUST UP THROUGH ROOF WITH RAIN-PROOF CAP

GRILLE, REGISTERS, AND DIFFUSER SCHEDULE

TAG	AIR STREAM	STYLE	MOUNTING TYPE	INLET SIZE (IN) DIA.	INLET SIZE (IN) HEIGHT	INLET SIZE (IN) WIDTH	FRAME SIZE HEIGHT	FRAME SIZE WIDTH	MANUFACTURER	MODEL NO.	REMARKS
CD-4W-1	SUPPLY	4-WAY DIFFUSER	CEILING	6"			1' - 0"	1' - 0"	TITUS	OMNI-AA	STANDARD FINISH # 26 WHITE
CD-4W-3	SUPPLY	4-WAY DIFFUSER	CEILING	6"			2' - 0"	2' - 0"	TITUS	OMNI-AA	STANDARD FINISH # 26 WHITE
CD-4W-4	SUPPLY	4-WAY DIFFUSER	CEILING	8"			2' - 0"	2' - 0"	TITUS	OMNI-AA	STANDARD FINISH # 26 WHITE
CD-4W-5	SUPPLY	4-WAY DIFFUSER	CEILING	10"			2' - 0"	2' - 0"	TITUS	OMNI-AA	STANDARD FINISH # 26 WHITE
E-1	EXHAUST	EXHAUST GRILLE	CEILING		6"	6"	0' - 7"	0' - 7"	TITUS	350RL	STANDARD FINISH # 26 WHITE
LD-1	SUPPLY	LINEAR DIFFUSER	CEILING	10"			6' - 0"	0' - 3"	TITUS	FL-10	CONTINOUS SLOT/ PATTERN CONTROLLER
RG-1	RETURN	RETURN GRILLE	CEILING		10"	10"	0' - 11"	0' - 11"	TITUS	350RL	STANDARD FINISH # 26 WHITE
RG-2	RETURN	RETURN GRILLE	CEILING		10"	22"	0' - 11"	1' - 11"	TITUS	350RL	STANDARD FINISH # 26 WHITE
RG-3	RETURN	RETURN GRILLE	CEILING		22"	22"	1' - 11"	1' - 11"	TITUS	350RL	STANDARD FINISH # 26 WHITE
SDG-1	SUPPLY	DOUBLE DEFECTION SPIRAL DUCT	DUCT		16"	6"	1' - 6"	0' - 8"	TITUS	S300FL	STANDARD FINISH # 26 WHITE



1 MECHANICAL FIRST FLOOR PLAN
M101 3/16" = 1'-0"

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CERTIFICATION

STATE OF OHIO
SCOTT SEVERT STILKEY
E-77755
REGISTERED PROFESSIONAL ENGINEER

REVISIONS

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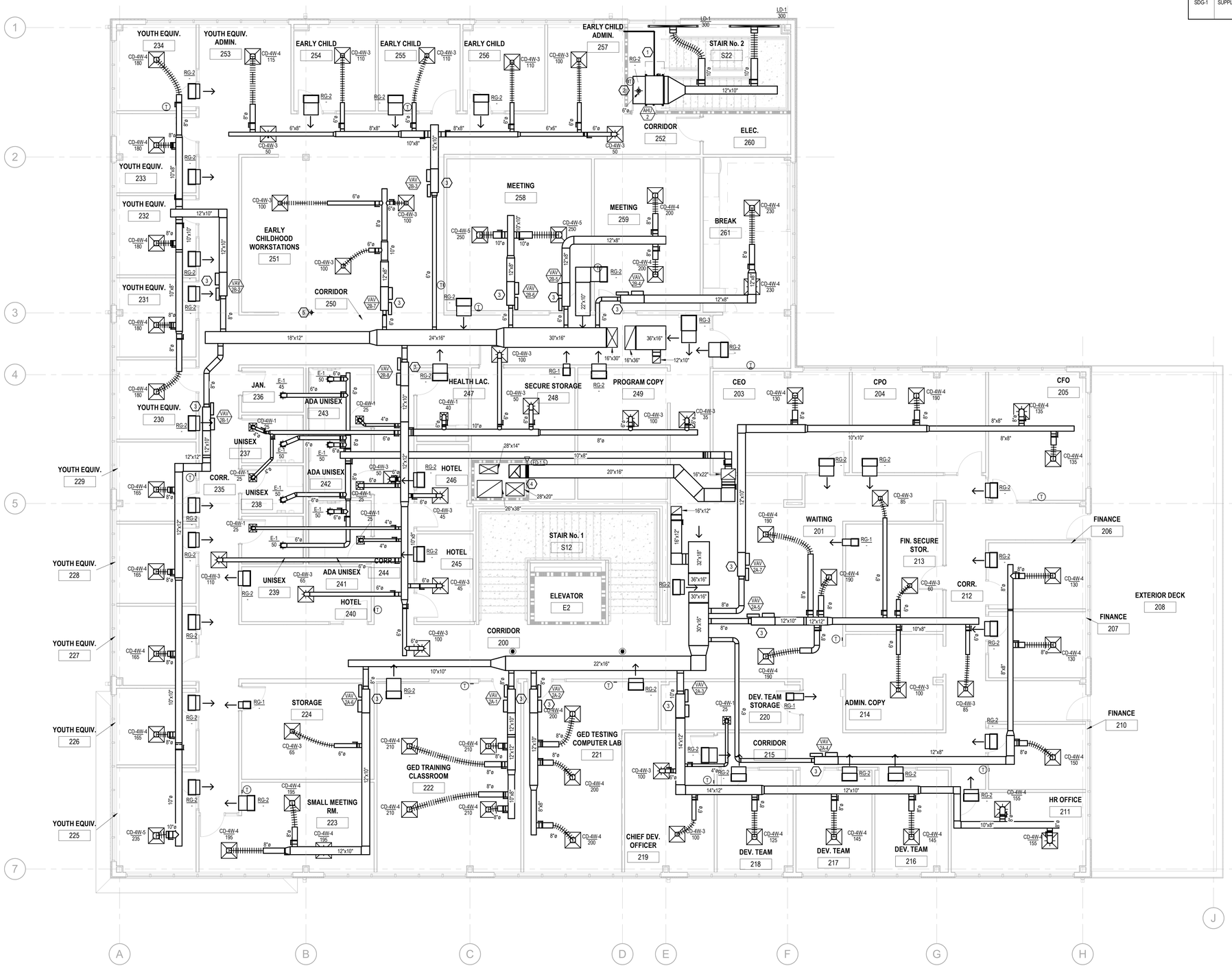
MECHANICAL FIRST FLOOR

M101

Keynote Legend	
Key Value	**Keynote Text**
1	ROUTE 3/4" CONDENSATE DRAIN LINE TO MECHANICAL ROOM FLOOR DRAIN. SLOPE PIPE A MINIMUM OF 1/8 " PER FOOT AWAY FROM UNIT. REFER TO HILTI DETAIL FOR THROUGH WALL PENETRATION DETAIL.
2	DUCT FRESH AIR UP THROUGH ROOF WITH RAIN-PROOF CAP
3	HVAC EQUIPMENT SHALL BE CONNECTED TO AND CONTROLLED BY THE BAS SYSTEM. REFER TO BAS SYSTEM SPECIFICATIONS FOR CONNECTION, POINTS, AND CONTROL REQUIREMENTS.
4	SMOKE DAMPERS ARE NOT REQUIRED FOR SHAFT PENETRATIONS PER 2024 OHIO MECHANICAL CODE SECTION 607.5.5 EXCEPTION 6: SMOKE DAMPERS ARE NOT REQUIRED WHERE THE BUILDING IS EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH SECTION 903.3.1.1 OF THE BUILDING CODE.
5	DUCT DRYER EXHAUST UP THROUGH ROOF WITH RAIN-PROOF CAP

GRILLE, REGISTERS, AND DIFFUSER SCHEDULE

TAG	AIR STREAM	STYLE	MOUNTING TYPE	INLET SIZE (IN)			FRAME SIZE		MANUFACTURER	MODEL NO.	REMARKS
				DIA.	HEIGHT	WIDTH	HEIGHT	WIDTH			
CD-4W-1	SUPPLY	4-WAY DIFFUSER	CEILING	6"			1' - 0"	1' - 0"	TITUS	OMNI-AA	STANDARD FINISH # 26 WHITE
CD-4W-3	SUPPLY	4-WAY DIFFUSER	CEILING	6"			2' - 0"	2' - 0"	TITUS	OMNI-AA	STANDARD FINISH # 26 WHITE
CD-4W-4	SUPPLY	4-WAY DIFFUSER	CEILING	8"			2' - 0"	2' - 0"	TITUS	OMNI-AA	STANDARD FINISH # 26 WHITE
CD-4W-5	SUPPLY	4-WAY DIFFUSER	CEILING	10"			2' - 0"	2' - 0"	TITUS	OMNI-AA	STANDARD FINISH # 26 WHITE
E-1	EXHAUST	EXHAUST GRILLE	CEILING		6"	6"	0' - 7"	0' - 7"	TITUS	350RL	STANDARD FINISH # 26 WHITE
LD-1	SUPPLY	LINEAR DIFFUSER	CEILING	10"			6' - 0"	0' - 3"	TITUS	FL-10	CONTINOUS SLOT/ PATTERN CONTROLLER
RG-1	RETURN	RETURN GRILLE	CEILING		10"	10"	0' - 11"	0' - 11"	TITUS	350RL	STANDARD FINISH # 26 WHITE
RG-2	RETURN	RETURN GRILLE	CEILING		10"	22"	0' - 11"	1' - 11"	TITUS	350RL	STANDARD FINISH # 26 WHITE
RG-3	RETURN	RETURN GRILLE	CEILING		22"	22"	1' - 11"	1' - 11"	TITUS	350RL	STANDARD FINISH # 26 WHITE
SDG-1	SUPPLY	DOUBLE DEFECTION SPIRAL DUCT	DUCT		16"	6"	1' - 6"	0' - 8"	TITUS	S300FL	STANDARD FINISH # 26 WHITE



1 MECHANICAL SECOND FLOOR PLAN
M102 3/16" = 1'-0"

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MECHANICAL SECOND FLOOR

M102

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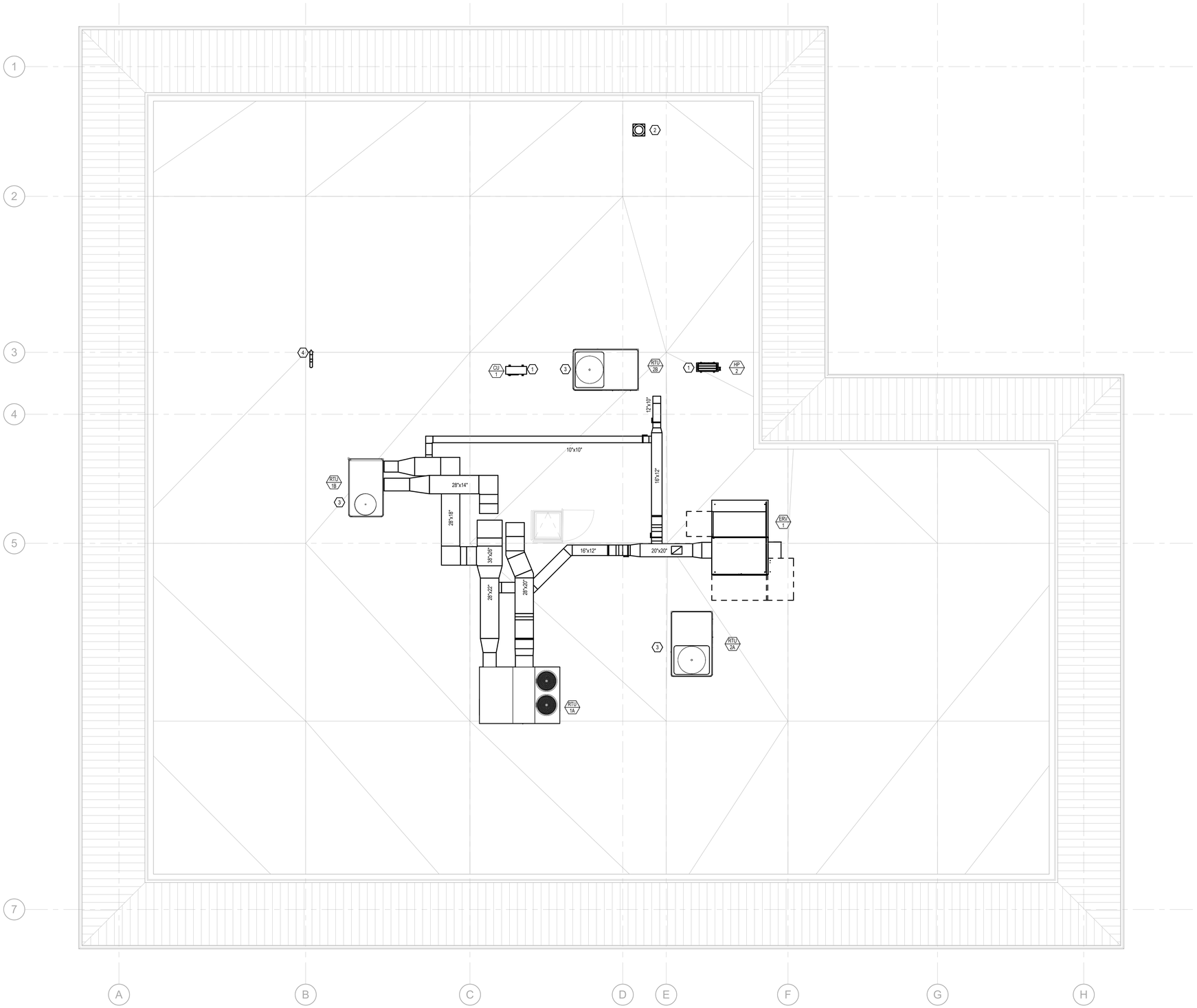
Keynote Legend	
Key Value	**Keynote Text**
1	ROUTE LINE SET FROM OUTDOOR UNIT TO INDOOR AIR HANDLER. ALL PIPING SHALL BE CONCEALED IN FINISHED AREA. SIZE PER MANUFACTURES RECOMMENDATIONS.
2	DUCT FRESH AIR UP THROUGH ROOF WITH RAIN-PROOF CAP
3	HVAC EQUIPMENT SHALL BE CONNECTED TO AND CONTROLLED BY THE BAS SYSTEM. REFER TO BAS SYSTEM SPECIFICATIONS FOR CONNECTION, POINTS, AND CONTROL REQUIREMENTS.
4	DUCT DRYER EXHAUST UP THROUGH ROOF WITH RAIN-PROOF CAP



1 M103 MECHANICAL ROOF PLAN
3/16" = 1'-0"

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CERTIFICATION

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SCOTT BEVERT STILKEY
E-77795
REGISTERED
PROFESSIONAL ENGINEER

REVISIONS

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MECHANICAL ROOF

M103

ERV SCHEDULE

TAG	MANUFACTURER	MODEL	LOCATION	OUTSIDE AIR CFM	OUTSIDE AIR ESP	OUTSIDE AIR HP	EXHAUST AIR CFM	EXHAUST AIR ESP	EXHAUST AIR HP	SUMMER/COOLING OUTDOOR AIR DB	OUTDOOR AIR WB	OUTDOOR AIR GRAINS/lb	FRESH AIR DB	FRESH AIR WB	FRESH AIR GRAINS/lb	RETURN AIR DB	RETURN AIR WB	RETURN AIR GRAINS/lb	WINTER/HEATING OUTDOOR AIR DB	OUTDOOR AIR WB	OUTDOOR AIR GRAINS/lb	FRESH AIR DB	FRESH AIR WB	FRESH AIR GRAINS/lb	RETURN AIR DB	RETURN AIR WB	RETURN AIR GRAINS/lb	EFFECTIVENESS SUMMER TOTAL (%)	WINTER TOTAL (%)	ELECTRICAL VOLTAGE	PHASE	MCA	MOCP	FILTERS OA	FILTERS RA	WEIGHT	NOTES
ERV-1	RENEWAIRE	HE6X	ROOF	3304	0.50 in-wg	3	2825	1.00 in-wg	3	93 °F	75 °F	101.4	81 °F	67 °F	86.9	75 °F	63 °F	65.8	8 °F	6 °F	4.9	50 °F	39 °F	19	70 °F	51 °F	27.6	65.70%	82.60%	480	3	10 A	15 A	2" MERV 8 PLEATED	2" MERV 8 PLEATED	2623	MOTORIZED DAMPER ON BOTH AIRSTREAMS

GAS FIRED/ DIRECT EXPANSION ROOFTOP UNIT SCHEDULE

1. 14" ROOF CURB.
2. MULTI-ZONE SYSTEM W/ VAV BOXES
3. VARIABLE SPEED FANS.
4. DIRECT DRIVE SCROLL COMPRESSORS.
5. ECONOMIZER WITH POWERED EXHAUST
6. MULTI STAGE COOLING.
7. HAIL GUARDS.
8. LOW AMBIENT COOLING KIT.
9. STAINLESS STEEL HEAT EXCHANGER.
10. 120V SERVICE OUTLET

TAG	LOCATION	REFRIGERANT DATA REFRIGERATION TYPE	REFRIGERATION CHARGE (LBS)	EER/IEER	DESIGN AIR TEMPS SUMMER DB°F	SUMMER WB°F	WINTER DB°F	COOLING CAPACITY GROSS (MBH)	SENSIBLE (MBH)	EAT (DB°F)	EAT (WB°F)	LAT (DB°F)	LAT (WB°F)	NO OF COMPRESSORS	STAGES	HEATING CAPACITY INPUT (MBH)	OUTPUT (MBH)	EAT (DB°F)	LAT (DB°F)	AFUE %	STAGES	FAN/MOTOR DATA SA CFM	OA CFM	SUPPLY HP	SUPPLY ESP (IN W.C.)	ELECTRICAL DATA MCA	MOCP	V	PH	HZ	WEIGHT (LBS)	MANUFACTURER	MODEL NO.	REMARKS
RTU 1A	ROOF	454B	11.8	10.8/14.5	92	75	0	183	135	80	67	57	57	2	3	400	324	50	106	81	2	6000	1163	6	1.60	40	50	480	3	60	2156	TRANE	YSK180A4S0H	1-10
RTU 1B	ROOF	454B	8	11/15.1	92	75	0	126	98	80	67	57	57	2	3	240	195	50	94	81	2	4000	561	3	1.50	30	40	480	3	60	1114	TRANE	YSK120A4S0H	1-10
RTU 2A	ROOF	454B	9.8	10.8/14.5	92	75	0	150	114	80	67	57	57	2	3	250	202	50	87	81	2	5000	912	4.6	1.50	33	45	480	3	60	1315	TRANE	YSK150A4S0H	1-10
RTU 2B	ROOF	454B	9.8	10.8/14.5	92	75	0	150	114	80	67	57	57	2	3	250	202	50	87	81	2	5000	715	4.6	1.50	33	45	480	3	60	1315	TRANE	YSK150A4S0H	1-10

OUTDOOR CONDENSING UNIT SCHEDULE

TAG	LOCATION	REFRIGERANT DATA TYPE	SEER 2	HEAT DATA CAPACITY (MBH)	COOLING DATA CAPACITY (MBH)	ELECTRICAL DATA MCA	MOCP	V	PH	HZ	WEIGHT (LBS)	MANUFACTURER	MODEL NO.	REMARKS
CU 1	ROOF	454B	19.5	0	18	16.0	27.0	208	1	60	99	MITSUBISHI	PUY-AK18NL	LOW AMBIENT COOLING KIT
HP 2	ROOF	454B	17.3	23.5	18	25.0	42.0	208	2	60	115	MITSUBISHI	SUZ-AA18NLHZ	HYPER HEAT INVERTER

AIR HANDLER INDOOR UNIT SCHEDULE

TAG	ASSOCIATED OUTDOOR UNIT	LOCATION	FAN/MOTOR DATA SUPPLY SA (CFM)	OA (CFM)	HP	ESP (IN WC)	MANUFACTURER	MODEL NO.	REMARKS
AHU 1	CU-1	116 SERVER	375	0	0	0.00	MITSUBISHI	PKA-AL18NL	UNIT POWERED BY OUTDOOR UNIT
AHU 2	HP-2	S22 STAIR N0 2	600	35	0.1	0.50	MITSUBISHI	PEAD-AA18NL	UNIT POWERED BY OUTDOOR UNIT

ELECTRIC HEATER SCHEDULE

TAG	LOCATION	MOUNTING TYPE	HEATING CAPACITY (KW)	ELECTRICAL DATA AMPS	V	PH	HZ	DIMENSIONS (IN) LENGTH	WIDTH	HEIGHT	WEIGHT	MANUFACTURER	MODEL NO.	REMARKS
EWH-1	100 VESTIBULE	WALL	1.5	15	208 V	1	60 Hz	1' - 3 3/4"	0' - 3 7/8"	1' - 6 1/4"	22	BERKO	VFK404F	INTEGRAL THERMOSTAT
EWH-2	117 MECH/ELEC	WALL	4.8	13	208 V	3	60 Hz	1' - 3 3/4"	0' - 3 7/8"	1' - 6 1/4"	22	BERKO	VFK4883F	INTEGRAL THERMOSTAT

VARIABLE AIR VOLUME TERMINAL UNIT SCHEDULE WITH ELECTRIC REHEAT

TAG	LOCATION	NECK SIZE (IN.)	DESIGN AIRFLOW MAX (CFM)	MIN (CFM)	HEATING (CFM)	APD (IN WC)	HEATING CAP. KW	STAGES	EAT (°F)	LAT (°F)	ELECTRICAL DATA V	PH	HZ	MCA	FLA	MOCP	CONTROL TYPE	MANUFACTURER	MODEL NO.	REMARKS
VAV 1A-1	145 DONATION PANTRY	12"	1900	950	950	0.07	10.0 kW	1	60	92	480	3	60	15.0 A	12.0 A	20 A	ACTUATOR	TRANE	VCEF	CONTROLED THROUGH BAS SYSTEM
VAV 1A-2	152 CORRIDOR	8"	800	400	400	0.08	4.0 kW	1	60	92	277	1	60	18.0 A	14.4 A	20 A	ACTUATOR	TRANE	VCEF	CONTROLED THROUGH BAS SYSTEM
VAV 1A-3	152 CORRIDOR	5"	250	125	125	0.02	1.5 kW	1	60	95	277	1	60	6.7 A	5.4 A	15 A	ACTUATOR	TRANE	VCEF	CONTROLED THROUGH BAS SYSTEM
VAV 1A-4	149 CORRIDOR	14"	2000	1000	1000	0.01	12.0 kW	1	60	95	480	3	60	18.0 A	14.4 A	20 A	ACTUATOR	TRANE	VCEF	CONTROLED THROUGH BAS SYSTEM
VAV 1A-5	149 CORRIDOR	10"	1050	525	525	0.03	5.0 kW	1	60	90	277	1	60	22.5 A	18.0 A	25 A	ACTUATOR	TRANE	VCEF	CONTROLED THROUGH BAS SYSTEM
VAV 1B-1	136 STORAGE	6"	475	238	238	0.20	2.0 kW	1	60	90	277	1	60	13.5 A	10.8 A	15 A	ACTUATOR	TRANE	VCEF	CONTROLED THROUGH BAS SYSTEM
VAV 1B-2	120 CORRIDOR	8"	800	400	400	0.08	3.0 kW	1	60	84	277	1	60	18.0 A	14.4 A	20 A	ACTUATOR	TRANE	VCEF	CONTROLED THROUGH BAS SYSTEM
VAV 1B-3	111 CORRIDOR	10"	1000	500	500	0.03	5.0 kW	1	60	92	277	1	60	22.5 A	18.0 A	25 A	ACTUATOR	TRANE	VCEF	CONTROLED THROUGH BAS SYSTEM
VAV 1B-4	114 STORAGE	10"	1000	500	500	0.03	5.0 kW	1	60	92	277	1	60	22.5 A	18.0 A	25 A	ACTUATOR	TRANE	VCEF	CONTROLED THROUGH BAS SYSTEM
VAV 1B-5	101 LOBBY	8"	725	363	400	0.07	4.0 kW	1	60	95	277	1	60	18.0 A	14.0 A	20 A	ACTUATOR	TRANE	VCEF	CONTROLED THROUGH BAS SYSTEM
VAV 2A-1	222 GED CLASSROOM	8"	850	425	425	0.09	4.0 kW	1	60	90	277	1	60	22.5 A	18.0 A	25 A	ACTUATOR	TRANE	VCEF	CONTROLED THROUGH BAS SYSTEM
VAV 2A-2	221 GED TESTING COMPUTER LAB	8"	600	300	300	0.05	3.0 kW	1	60	92	277	1	60	13.5 A	10.8 A	15 A	ACTUATOR	TRANE	VCEF	CONTROLED THROUGH BAS SYSTEM
VAV 2A-3	220 DEV TEAM STORAGE	10"	950	475	475	0.03	5.0 kW	1	60	93	277	1	60	22.5 A	18.0 A	25 A	ACTUATOR	TRANE	VCEF	CONTROLED THROUGH BAS SYSTEM
VAV 2A-4	215 CORRIDOR	6"	450	225	225	0.18	2.0 kW	1	60	95	277	1	60	13.5 A	10.8 A	15 A	ACTUATOR	TRANE	VCEF	CONTROLED THROUGH BAS SYSTEM
VAV 2A-5	201 WAITING	8"	900	450	450	0.10	4.0 kW	1	60	95	277	1	60	22.5 A	18.0 A	25 A	ACTUATOR	TRANE	VCEF	CONTROLED THROUGH BAS SYSTEM
VAV 2A-6	224 STORAGE	8"	650	325	325	0.06	3.0 kW	1	60	95	277	1	60	18.0 A	14.0 A	20 A	ACTUATOR	TRANE	VCEF	CONTROLED THROUGH BAS SYSTEM
VAV 2A-7	201 WAITING	8"	600	300	300	0.05	3.0 kW	1	60	84	277	1	60	13.5 A	10.8 A	15 A	ACTUATOR	TRANE	VCEF	CONTROLED THROUGH BAS SYSTEM
VAV 2B-1	235 CORRIDOR	8"	900	450	450	0.10	5.0 kW	1	60	95	277	1	60	22.5 A	18.0 A	25 A	ACTUATOR	TRANE	VCEF	CONTROLED THROUGH BAS SYSTEM
VAV 2B-2	235 CORRIDOR	8"	900	450	450	0.10	5.0 kW	1	60	95	277	1	60	22.5 A	18.0 A	25 A	ACTUATOR	TRANE	VCEF	CONTROLED THROUGH BAS SYSTEM
VAV 2B-3	251 EARLY CHILDHOOD	8"	640	320	320	0.06	3.0 kW	1	60	90	277	1	60	13.5 A	10.8 A	15 A	ACTUATOR	TRANE	VCEF	CONTROLED THROUGH BAS SYSTEM
VAV 2B-4	259 MEETING	6"	460	200	200	0.20	3.0 kW	1	60	92	277	1	60	13.5 A	10.8 A	15 A	ACTUATOR	TRANE	VCEF	CONTROLED THROUGH BAS SYSTEM
VAV 2B-5	258 MEETING	6"	400	200	200	0.14	1.5 kW	1	60	84	277	1	60	9.0 A	7.2 A	15 A	ACTUATOR	TRANE	VCEF	CONTROLED THROUGH BAS SYSTEM
VAV 2B-6	258 MEETING	6"	500	250	250	0.14	2.0 kW	1	60	95	277	1	60	9.0 A	7.2 A	15 A	ACTUATOR	TRANE	VCEF	CONTROLED THROUGH BAS SYSTEM
VAV 2B-7	251 EARLY CHILDHOOD	5"	300	150	150	0.02	1.5 kW	1	60	95	277	1	60	6.7 A	5.4 A	15 A	ACTUATOR	TRANE	VCEF	CONTROLED THROUGH BAS SYSTEM
VAV 2B-8	244 CORRIDOR	8"	900	450	450	0.80	4.0 kW	1	60	95	277	1	60	22.5 A	18.0 A	25 A	ACTUATOR	TRANE	VCEF	CONTROLED THROUGH BAS SYSTEM

DUCT INSULATION SCHEDULE

*DUCT INSULATION REQUIREMENTS ARE BASED ON TABLE 6.8.2B OF ASHRAE 90.1 2019 ENERGY CODE.
**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.

EQUIPMENT	SA	SA (EXPOSED)	SA (EXTERIOR)	RA	RA (EXTERIOR)	OA	OA (EXTERIOR)	EA	ADDITIONAL NOTES
RTU-X	R-1.9	R-1.9	R-8	N/A	R-8	R-6	R-8	-	
ERV-1	R-6	R-8	-	N/A	-	-	-	N/A	
AHU-2	R-1.9	-	-	N/A	-	R-6	-	-	

GAS FIRED HEATER SCHEDULE

TAG	LOCATION	TYPE	HEATING CAPACITY AIRFLOW (CFM)	INPUT (MBH)	OUTPUT (MBH)	FUEL	ELECTRICAL DATA RPM	HP	MAX AMPS	V	PH	HZ	DIMENSIONS (IN) LENGTH	HEIGHT	WIDTH	WEIGHT (LBS)	MANUFACTURER	MODEL NO.	REMARKS
UH 1	119 LOADING DOCK	GAS UNIT HEATER	629	45	37.5	NAT GAS	1550	0.03	2	120	1	60	27.00	13.75	29.75	62	REZNOR	UDXC45	WALL MOUNTED THERMOSTAT

VENTILATION SCHEDULE - 2024 OHIO MECHANICAL CODE (20124 OMC)

		ROOM NUMBER	ROOMNAME	OCCUPANCY CLASSIFICATION	OCCUPANCY DENSITY (PEOPLE/ft2)	RATE Rp (CFM/person)	PEOPLE Pz	TOTAL Rp*Pz (CFM)	RATE Ra (CFM/ft2)	AREA (ft2)	TOTAL Ra*Az (CFM)	BREATHING ZONE OUTDOOR AIRFLOW Vbz (CFM)	ZONE OUTDOOR AIRFLOW Voz (CFM)	ZONE EFFECTIVENESS (EZ)	TOTAL OUTDOOR AIRFLOW (CFM)*
EQUIPMENT	AHU-2	S21/S22	STAIR NO 2	CORRIDORS	N/A	0	0	0	0.06	448	27	27	34	0.8	35

*CALCULATIONS BASED ON 403.3.1.1 OF THE 2024 OMC

MECHANICAL EXHAUST SCHEDULE - 2024 OHIO MECHANICAL CODE

SANTA MARIA

*CALCULATIONS ARE BASED ON TABLE 403.3.1.1 OF THE 2024 OMC

ROOM/UNIT NUMBER	ROOMNAME	OCCUPANCY CLASSIFICATION	AREA (FT2)	EXHAUST AIRFLOW RATE (CFM/FT2)	FIXTURES EXHAUST RATE PER FIXTURE (CFM)	LOWER CONTINOUS RATE	HIGHER INTERMITTENT RATE	QTY. OF FIXTURES	TOTAL EXHAUST AIRFLOW REQ. (CFM)	TOTAL EXHAUST AIRFLOW ACT. (CFM)
121	ADA UNISEX	PUBLIC - TOILET ROOM	-	-	50/70	YES	NO	1	50	50
122	UNISEX	PUBLIC - TOILET ROOM	-	-	50/70	YES	NO	1	50	50
123	ADA UNISEX	PUBLIC - TOILET ROOM	-	-	50/70	YES	NO	1	50	50
128	ADA UNISEX	PUBLIC - TOILET ROOM	-	-	50/70	YES	NO	1	50	50
129	UNISEX	PUBLIC - TOILET ROOM	-	-	50/70	YES	NO	1	50	50
130	UNISEX	PUBLIC - TOILET ROOM	-	-	50/70	YES	NO	1	50	50
131	UNISEX	PUBLIC - TOILET ROOM	-	-	50/70	YES	NO	1	50	50
135	ADA SHOWER	PUBLIC - TOILET ROOM	-	-	50/70	YES	NO	2	70	70
155	CHILD ADA UNISEX	PUBLIC - TOILET ROOM	-	-	50/70	YES	NO	1	50	50
241	ADA UNISEX	PUBLIC - TOILET ROOM	-	-	50/70	YES	NO	1	50	50
242	ADA UNISEX	PUBLIC - TOILET ROOM	-	-	50/70	YES	NO	1	50	50
243	ADA UNISEX	PUBLIC - TOILET ROOM	-	-	50/70	YES	NO	1	50	50
239	UNISEX	PUBLIC - TOILET ROOM	-	-	50/70	YES	NO	1	50	50
237	UNISEX	PUBLIC - TOILET ROOM	-	-	50/70	YES	NO	1	50	50
238	UNISEX	PUBLIC - TOILET ROOM	-	-	50/70	YES	NO	1	50	50

MECHANICAL VENTILATION SCHEDULE - MULTIPLE ZONE RECIRCULATING SYSTEM (RTU-2B)

ZONES		ROOM NUMBER	ROOMNAME	OCCUPANCY CLASSIFICATION	OCCUPANCY DENSITY (PEOPLE/ft2)	RATE Rp (CFM/person)	PEOPLE Pz	TOTAL Rp*Pz (CFM)	RATE Ra (CFM/ft2)	AREA (ft2)	TOTAL Ra*Az (CFM)	BREATHING ZONE OUTDOOR AIRFLOW Vbz (CFM)	ZONE AIR DISTRIBUTION EFFECTIVENESS Ez	ZONE OUTDOOR AIRFLOW Voz (CFM)	PRIMARY AIRFLOW Vpz	PRIMARY OUTDOOR AIR FRACTION Zpz	ZONE VENTILATION EFFICIENCY Evz	OCCUPANT DIVERSITY D	UNCORRECTED OUTDOOR AIR INTAKE Vou	AVERAGE OUTDOOR AIR FRACTION Xs	SYSTEM VENTILATION EFFICIENCY Ev*	REQUIRED OUTDOOR AIR INTAKE FLOW RATE Vot (CFM)*	ACTUAL OUTDOOR AIR INTAKE FLOW RATE
	1	225	YOUTH EQUIV	OFFICE SPACES	5/1000	5	1	5	0.06	132	8	13	0.8	16	234	0.07	1.06	1.00	601	0.125	0.84	715	715
		226	YOUTH EQUIV	OFFICE SPACES	5/1000	5	1	5	0.06	97	6	11	0.8	14	165	0.08	1.04						
		227	YOUTH EQUIV	OFFICE SPACES	5/1000	5	1	5	0.06	101	6	11	0.8	14	165	0.08	1.04						
		228	YOUTH EQUIV	OFFICE SPACES	5/1000	5	1	5	0.06	101	6	11	0.8	14	165	0.08	1.04						
		229	YOUTH EQUIV	OFFICE SPACES	5/1000	5	1	5	0.06	101	6	11	0.8	14	165	0.08	1.04						
	2	230	YOUTH EQUIV	OFFICE SPACES	5/1000	5	1	5	0.06	101	6	11	0.8	14	175	0.08	1.05						
		231	YOUTH EQUIV	OFFICE SPACES	5/1000	5	1	5	0.06	101	6	11	0.8	14	175	0.08	1.05						
		232	YOUTH EQUIV	OFFICE SPACES	5/1000	5	1	5	0.06	101	6	11	0.8	14	175	0.08	1.05						
		233	YOUTH EQUIV	OFFICE SPACES	5/1000	5	1	5	0.06	101	6	11	0.8	14	175	0.08	1.05						
		234	YOUTH EQUIV	OFFICE SPACES	5/1000	5	1	5	0.06	101	6	11	0.8	14	185	0.07	1.05						
	3	252	CORRIDOR	CORRIDOR	N/A	0	0	0	0.06	319	19	19	0.8	24	100	0.24	0.89						
		253	YOUTH ADMIN	OFFICE SPACES	5/1000	5	1	5	0.06	132	8	13	0.8	16	115	0.14	0.98						
		254	EARLY CHILD	OFFICE SPACES	5/1000	5	1	5	0.06	113	7	12	0.8	15	110	0.13	0.99						
		255	EARLY CHILD	OFFICE SPACES	5/1000	5	1	5	0.06	113	7	12	0.8	15	110	0.13	0.99						
		256	EARLY CHILD	OFFICE SPACES	5/1000	5	1	5	0.06	113	7	12	0.8	15	110	0.13	0.99						
		257	EARLY CHILD ADMIN	OFFICE SPACES	5/1000	5	1	5	0.06	112	7	12	0.8	15	100	0.15	0.98						
	4	261	BREAK	OFFICE SPACES	5/1000	5	2	10	0.06	286	17	27	0.8	34	460	0.07	1.05						
	5	259	MEETING	CONFERENCE ROOMS	50/1000	5	13	65	0.06	258	15	80	0.8	101	400	0.25	0.87						
	6	258	MEETING	CONFERENCE ROOMS	50/1000	5	18	90	0.06	352	21	111	0.8	139	500	0.28	0.85						
	7	251	EARLY CHILDHOOD WORKSTATIONS	OFFICE SPACES	5/1000	5	3	15	0.06	501	30	45	0.8	56	300	0.19	0.94						
	8	200	CORRIDOR	CORRIDOR	N/A	0	0	0	0.06	374	22	22	0.8	28	100	0.28	0.84						
		202	CORRIDOR	CORRIDOR	N/A	0	0	0	0.06	115	7	7	0.8	9	30	0.29	0.84						
		235	CORRIDOR	CORRIDOR	N/A	0	0	0	0.06	417	25	25	0.8	31	115	0.27	0.85						
		240	HOTEL	OFFICE SPACES	5/1000	5	1	5	0.06	113	7	12	0.8	15	65	0.23	0.90						
	8	244	CORRIDOR	CORRIDOR	N/A	0	0	0	0.06	165	10	10	0.8	12	45	0.28	0.85						
		245	HOTEL	OFFICE SPACES	5/1000	5	1	5	0.06	79	5	10	0.8	12	50	0.24	0.88						
		246	HOTEL	OFFICE SPACES	5/1000	5	1	5	0.06	73	4	9	0.8	12	45	0.26	0.86						
		247	HEALTH LAC	OFFICE SPACES	5/1000	5	1	5	0.06	61	4	9	0.8	11	40	0.27	0.85						
		248	SECURE STORAGE	STORAGE	N/A	0	0	0	0.06	49	3	3	0.8	4	50	0.07	1.05						
		249	PROGRAM COPY	OFFICE SPACES	5/1000	5	1	5	0.06	187	11	16	0.8	20	100	0.20	0.92						
	7	200	CORRIDOR	CORRIDOR	N/A	0	0	0	0.06	375	23	23	0.8	28	100	0.28	0.84						

* SYSTEM VENTILATION EFFICIENCY Ev WAS CALCULATED USING TABLE 403.3.2.3.2.
ALL VENTILATION CALCULATIONS PERFORMED PER CHAPTER 403 OF THE 2024 OHIO MECHANICAL CODE.

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CERTIFICATION

STATE OF OHIO
SCOTT SEVERT STILKEY
E-77755
REGISTERED PROFESSIONAL ENGINEER

REVISIONS

#	DATE	DESCRIPTION
	01/30/2026	PERMIT ISSUE

PROJECT #: 6568
DRAWN: RTT **CHECKED:** SSS

MECHANICAL DETAILS

M300

MECHANICAL VENTILATION SCHEDULE - MULTIPLE ZONE RECIRCULATING SYSTEM (RTU-1A)

ZONES	ROOM NUMBER	ROOMNAME	OCCUPANCY CLASSIFICATION	OCCUPANCY DENSITY (PEOPLE/ft2)	RATE Rp (CFM/person)	PEOPLE Pz	TOTAL Rp*Pz (CFM)	RATE Ra (CFM/ft2)	AREA (ft2)	TOTAL Ra*Az (CFM)	BREATHING ZONE OUTDOOR AIRFLOW Vbz (CFM)	ZONE AIR DISTRIBUTION EFFECTIVENESS Ez	ZONE OUTDOOR AIRFLOW Voz (CFM)	PRIMARY AIRFLOW Vpz	PRIMARY OUTDOOR AIR FRACTION Zpz	ZONE VENTILATION EFFICIENCY Evz	OCCUPANT DIVERSITY D	UNCORRECTED OUTDOOR AIR INTAKE Vou	AVERAGE OUTDOOR AIR FRACTION Xs	SYSTEM VENTILATION EFFICIENCY Ev*	REQUIRED OUTDOOR AIR INTAKE FLOW RATE Vot (CFM)*	ACTUAL OUTDOOR AIR INTAKE FLOW RATE
1	145	DONATION PANTRY	RETAIL	15/1000	7.5	22	165	0.12	1474	177	342	0.8	427	1760	0.24	0.92	0.90	949	0.158	0.85	1116	1116
1	146	SUPPLY/DIPER STOR	STORAGE	N/A	0	0	0	0.06	164	10	10	0.8	12	50	0.25	0.91						
2	157	FAMILY INTAKE	DAYCARE	25/1000	10	10	100	0.18	136	24	124	0.8	156	800	0.19	0.96						
3	152	CORRIDOR	CORRIDORS	N/A	0	0	0	0.06	303	18	18	0.8	23	90	0.25	0.91						
3	153	HOTEL	OFFICE SPACES	5/1000	5	1	5	0.06	81	5	10	0.8	12	40	0.31	0.85						
3	154	HOTEL	OFFICE SPACES	5/1000	5	1	5	0.06	82	5	10	0.8	12	40	0.31	0.85						
3	156	INTAKE	OFFICE SPACES	5/1000	5	1	5	0.06	50	3	8	0.8	10	50	0.20	0.96						
4	151	MEETING	CONFERENCE ROOMS	50/1000	5	56	280	0.06	1120	67	347	0.8	434	2000	0.22	0.94						
5	149	MTG/FOOD DIST WAITING	CONFERENCE ROOMS	50/1000	5	20	100	0.06	387	23	123	0.8	154	921	0.17	0.99						
	149	CORRIDOR	CORRIDORS	N/A	0	0	0	0.06	359	22	22	0.8	27	130	0.21	0.95						

* SYSTEM VENTILATION EFFICIENCY Ev WAS CALCULATED USING TABLE 403.3.2.3.2.
ALL VENTILATION CALCULATIONS PERFORMED PER CHAPTER 403 OF THE 2024 OHIO MECHANICAL CODE.

MECHANICAL VENTILATION SCHEDULE - MULTIPLE ZONE RECIRCULATING SYSTEM (RTU-1B)

ZONES	ROOM NUMBER	ROOMNAME	OCCUPANCY CLASSIFICATION	OCCUPANCY DENSITY (PEOPLE/ft2)	RATE Rp (CFM/person)	PEOPLE Pz	TOTAL Rp*Pz (CFM)	RATE Ra (CFM/ft2)	AREA (ft2)	TOTAL Ra*Az (CFM)	BREATHING ZONE OUTDOOR AIRFLOW Vbz (CFM)	ZONE AIR DISTRIBUTION EFFECTIVENESS Ez	ZONE OUTDOOR AIRFLOW Voz (CFM)	PRIMARY AIRFLOW Vpz	PRIMARY OUTDOOR AIR FRACTION Zpz	ZONE VENTILATION EFFICIENCY Evz	OCCUPANT DIVERSITY D	UNCORRECTED OUTDOOR AIR INTAKE Vou	AVERAGE OUTDOOR AIR FRACTION Xs	SYSTEM VENTILATION EFFICIENCY Ev*	REQUIRED OUTDOOR AIR INTAKE FLOW RATE Vot (CFM)*	ACTUAL OUTDOOR AIR INTAKE FLOW RATE
1	101	LOBBY	MAIN ENTRY LOBBIES	10/1000	5	7	35	0.06	623	37	72	0.8	90	725	0.12	0.98	1.00	437	0.109	0.78	561	561
2	118	CORRIDOR	CORRIDORS	N/A	0	0	0	0.06	130	8	8	0.8	10	80	0.12	0.99						
2	136	STORAGE	STORAGE	N/A	0	0	0	0.06	100	6	6	0.8	8	30	0.25	0.86						
2	139	INTERN/VOL STATIONS	OFFICE SPACES	5/1000	5	1	5	0.06	122	7	12	0.8	15	50	0.31	0.80						
2	140	LOCKERS	STORAGE	N/A	0	0	0	0.06	94	6	6	0.8	7	30	0.24	0.87						
2	141	BREAK	OFFICE SPACES	5/1000	5	2	10	0.06	348	21	31	0.8	39	140	0.28	0.83						
2	142	TABLE STORAGE	STORAGE ROOMS	N/A	0	0	0	0.06	138	8	8	0.8	10	40	0.26	0.85						
2	143	CORRIDOR	CORRIDORS	N/A	0	0	0	0.06	128	8	8	0.8	10	70	0.14	0.97						
2	144	CORRIDOR	CORRIDORS	N/A	0	0	0	0.06	118	7	7	0.8	9	40	0.22	0.89						
3	111	CORRIDOR	CORRIDORS	N/A	0	0	0	0.06	384	23	23	0.8	29	101	0.29	0.82						
3	113	FIN SECURE STORAGE	STORAGE	N/A	0	0	0	0.06	222	13	13	0.8	17	60	0.28	0.83						
3	114	SECURE STORAGE	STORAGE	N/A	0	0	0	0.06	205	12	12	0.8	15	55	0.28	0.83						
3	120	CORRIDOR	CORRIDORS	N/A	0	0	0	0.06	130	8	8	0.8	10	45	0.22	0.89						
3	125	CLOSET	STORAGE	N/A	0	0	0	0.06	40	2	2	0.8	3	15	0.20	0.91						
3	126	STABLE FAM	OFFICE SPACES	5/1000	5	1	5	0.06	112	7	12	0.8	15	45	0.33	0.78						
3	127	VOLUNTEER CORR	OFFICE SPACES	5/1000	5	1	5	0.06	112	7	12	0.8	15	45	0.33	0.78						
3	132	LAUNDRY	COMMERCIAL LAUNDRY	10/1000	5	2	10	0.12	50	6	16	0.8	20	65	0.31	0.80						
3	133	CORRIDOR	CORRIDORS	N/A	0	0	0	0.06	310	19	19	0.8	23	85	0.27	0.84						
3	134	CLOTHES PANTRY	STORAGE	N/A	0	0	0	0.06	123	7	7	0.8	9	35	0.26	0.85						
3	137	LACTATION	OFFICE SPACES	5/1000	5	1	5	0.06	63	4	9	0.8	11	35	0.31	0.80						
3	138	MAIL	STORAGE	N/A	0	0	0	0.06	115	7	7	0.8	9	30	0.29	0.82						
4	102	INTAKE	OFFICE SPACES	5/1000	5	1	5	0.06	126	8	13	0.8	16	145	0.11	1.00						
4	103	PROGRAM COPY	OFFICE SPACES	5/1000	5	1	5	0.06	120	7	12	0.8	15	303	0.05	1.06						
4	104	STABLE FAM	OFFICE SPACES	5/1000	5	1	5	0.06	101	6	11	0.8	14	128	0.11	1.00						
4	105	STABLE FAM	OFFICE SPACES	5/1000	5	1	5	0.06	101	6	11	0.8	14	210	0.07	1.04						
4	106	STABLE FAM	OFFICE SPACES	5/1000	5	1	5	0.06	101	6	11	0.8	14	210	0.07	1.04						
7	107	STABLE FAM	OFFICE SPACES	5/1000	5	1	5	0.06	101	6	11	0.8	14	135	0.10	1.01						
7	108	WELLNESS	OFFICE SPACES	5/1000	5	1	5	0.06	100	6	11	0.8	14	220	0.06	1.05						
7	109	WELLNESS	OFFICE SPACES	5/1000	5	1	5	0.06	101	6	11	0.8	14	220	0.06	1.05						
7	110	WELLNESS	OFFICE SPACES	5/1000	5	1	5	0.06	135	8	13	0.8	16	225	0.07	1.04						
7	112	IT WORKPLACE	OFFICE SPACES	5/1000	5	2	10	0.06	326	20	30	0.8	37	175	0.21	0.90						
7	115	IT STORAGE	STORAGE	N/A	0	0	0	0.06	93	6	6	0.8	7	25	0.28	0.83						

* SYSTEM VENTILATION EFFICIENCY Ev WAS CALCULATED USING TABLE 403.3.2.3.2.
ALL VENTILATION CALCULATIONS PERFORMED PER CHAPTER 403 OF THE 2024 OHIO MECHANICAL CODE.

MECHANICAL VENTILATION SCHEDULE - MULTIPLE ZONE RECIRCULATING SYSTEM (RTU-2A)

ZONES	ROOM NUMBER	ROOMNAME	OCCUPANCY CLASSIFICATION	OCCUPANCY DENSITY (PEOPLE/ft2)	RATE Rp (CFM/person)	PEOPLE Pz	TOTAL Rp*Pz (CFM)	RATE Ra (CFM/ft2)	AREA (ft2)	TOTAL Ra*Az (CFM)	BREATHING ZONE OUTDOOR AIRFLOW Vbz (CFM)	ZONE AIR DISTRIBUTION EFFECTIVENESS Ez	ZONE OUTDOOR AIRFLOW Voz (CFM)	PRIMARY AIRFLOW Vpz	PRIMARY OUTDOOR AIR FRACTION Zpz	ZONE VENTILATION EFFICIENCY Evz	OCCUPANT DIVERSITY D	UNCORRECTED OUTDOOR AIR INTAKE Vou	AVERAGE OUTDOOR AIR FRACTION Xs	SYSTEM VENTILATION EFFICIENCY Ev*	REQUIRED OUTDOOR AIR INTAKE FLOW RATE Vot (CFM)*	ACTUAL OUTDOOR AIR INTAKE FLOW RATE
1	222	GED TRAINING CLASSROOM	EDUCATIONAL CLASSROOM	35/1000	10	16	160	0.12	433	52	212	0.8	265	850	0.31	0.84	1.00	766	0.153	0.84	912	912
2	221	GED TESTING COMPUTER	EDUCATIONAL COMPUTER LAB	25/1000	10	12	120	0.06	325	20	140	0.8	174	600	0.29	0.86						
3	211	HR OFFICE	OFFICE SPACES	5/1000	5	1	5	0.06	185	11	16	0.8	20	298	0.07	1.09						
3	216	DEV. TEAM	OFFICE SPACES	5/1000	5	1	5	0.06	118	7	12	0.8	15	150	0.10	1.05						
3	217	DEV. TEAM	OFFICE SPACES	5/1000	5	1	5	0.06	123	7	12	0.8	15	150	0.10	1.05						
3	218	DEV. TEAM	OFFICE SPACES	5/1000	5	1	5	0.06	123	7	12	0.8	15	130	0.12	1.03						
3	219	CHIEF DEV. TEAM	OFFICE SPACES	5/1000	5	1	5	0.06	198	12	17	0.8	21	200	0.11	1.05						
3	220	DEV. TEAM STORAGE	STORAGE	N/A	0	0	0	0.06	94	6	6	0.8	7	30	0.24	0.92						
4	206	FINANCE	OFFICE SPACES	5/1000	5	1	5	0.06	96	6	11	0.8	13	130	0.10	1.05						
4	207	FINANCE	OFFICE SPACES	5/1000	5	1	5	0.06	96	6	11	0.8	13	130	0.10	1.05						
4	210	FINANCE	OFFICE SPACES	5/1000	5	1	5	0.06	121	7	12	0.8	15	190	0.08	1.07						
5	201	WAITING	OFFICE RECEPTION AREAS	30/1000	5	16	80	0.06	509	31	111	0.8	138	570	0.24	0.91						
5	213	FIN. SECURE STORAGE	STORAGE	N/A	0	0	0	0.06	167	10	10	0.8	13	60	0.21	0.94						
5	214	AMIN COPY	OFFICE	5/1000	5	1	5	0.06	148	9	14	0.8	17	100	0.17	0.98						
5	215/212	CORRIDOR	CORRIDORS	N/A	0	0	0	0.06	511	31	31	0.8	38	170	0.23	0.93						
6	223	SMALL MEETING ROOM	CONFERENCE ROOMS	50/1000	5	12	60	0.06	227	14	74	0.8	92	585	0.16	1.00						
6	224	STORAGE	STORAGE	N/A	0	0	0	0.06	203	12	12	0.8	15	65	0.23	0.92						
7	203	CEO	OFFICE SPACES	5/1000	5	1	5	0.06	214	13	18	0.8	22	144	0.15	1.00						
7	204	CPO	OFFICE SPACES	5/1000	5	1	5	0.06	221	13	18	0.8	23	188	0.12	1.03						
7	205	CFO	OFFICE SPACES	5/1000	5	1	5	0.06	225	14	19	0.8	23	260	0.09	1.06						

* SYSTEM VENTILATION EFFICIENCY Ev WAS CALCULATED USING TABLE 403.3.2.3.2.
ALL VENTILATION CALCULATIONS PERFORMED PER CHAPTER 403 OF THE 2024 OHIO MECHANICAL CODE.

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SANTA MARIA COMMUNITY SERVICES

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SANTA MARIA COMMUNITY SERVICES

1048 CONSIDINE AVE.
CINCINNATI, OHIO 45205

CERTIFICATION

REVISIONS

#	DATE	DESCRIPTION
	01/30/2026	PERMIT ISSUE

PROJECT #: 6568

DRAWN: RTT **CHECKED:** SSS

rtm engineering consultants
519 MONMOUTH | 201 | NEWPORT, KY 41071
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MECHANICAL DETAILS

M301

MECHANICAL SPECIFICATIONS

1. General
   a. Refer to architectural drawings, general notes, instructions to bidders, general conditions, supplementary general conditions, base building specifications and drawings, shop drawing manuals and as-built plans, except as noted herein, which apply in all respects to this section. The contractor shall visit the site and familiarize himself with all existing conditions prior to bidding the work
2. Use of Drawings And Specifications
   a. EBS drawings and specifications are intended to convey design intent only. All means and methods sequences, techniques, and procedures of construction as well as any associated safety precautions and programs, and all incidental and temporary devices required to construct the project, and to provide a complete and fully operational mechanical system are the responsibility of the mechanical contractor.
3. Standards
   a. Equipment and materials shall conform with appropriate provisions of AGA, ARI, ASME, ASTM, CISPI, UL, NEMA, ANSI, SMACNA, ASHRAE, NFPA, NEC, as applicable to each individual unit or assembly. All equipment must bear UL label.
4. License / Experience
   a. Contractor must be licensed by the state to install HVAC systems/equipment. Contractor must also have a minimum of 5 years of experience and have installed at least (5) successful project installations of similar size and scope. References must be provided upon request.
5. Codes
   a. All work shall be performed in strict accordance with all applicable state and local codes and ordinances. The mechanical contractor shall satisfy code requirements at a minimum without any extra cost to the owner. In case of conflict between the drawings/specifications and the codes and ordinances, the highest standard shall apply.
6. Permits and Fees
   a. The mechanical contractor shall procure and pay for all permits, fees, taxes, and inspections necessary to complete the mechanical work. Furnish certificate of approval for work from inspection authority to owner before final acceptance for work. Certificate of final inspection and approval shall be submitted with the contractor's request for payment. No final payment will be approved without this certificate.
7. Site Examination
   a. The mechanical contractor shall thoroughly examine all areas of work where equipment, ductwork, and piping will be installed and shall report any condition that, in his opinion, prevents the proper installation of the mechanical work prior to bid. Contractor shall also examine the drawings and specifications of other branches of work, making reference to them for details of new or existing building conditions. No extras will be allowed for failure to include all required work in bid.
   b. All work shall be done at times convenient to the owner and only during normal working hours, unless specified otherwise.
   c. Mechanical contractor shall take their own measurements and be responsible for them.
   d. Access panels are not shown on drawings. During site examination, contractor shall identify all areas where access panels are required, and report to general contractor. Designation of who furnishes and who installs access panels must be coordinated with general contractor prior to starting work.
8. Contractor Coordination
   a. Coordination drawings showing system and component installation layout, routing, details, etc. Shall be produced by the mechanical contractor and under the supervision of the general contractor/construction manager, or appropriate party as applicable.
   b. All systems installed by each sub-contractor shall be coordinated with one another and approved by general contractor/construction manager, etc. prior to installation and/or fabrication.
   c. If questions concerning design intent arise during coordination, EBS can assist where appropriate.
   d. The architectural drawings shall take precedence over all other drawings. Do not scale distances off the mechanical drawings; use actual building dimensions.
9. Shop Drawings / Submittals
   a. Submit to the architect electronic copies of complete and certified shop drawings, descriptive data, performance data and ratings, diagrams and specifications on all specified equipment, including accessories, and materials for review. The make, model number, type, finish and accessories of all equipment and materials shall be reviewed and approved by the mechanical contractor and general contractor prior to submitting to the architect for their review and approval. Approval of shop drawings does not relieve the mechanical contractor/vendor from compliance with the requirements of the contract drawings, specifications and applicable codes.
   b. Shop drawings shall be required for the following:
      1. HVAC equipment
      2. Fans
      3. Diffusers, registers, grilles, dampers, louvers, and all sheet metal accessories
      4. Temperature controls
      5. Sheet metal coordination drawings
   a. Products installed by the mechanical contractor and provided by others must be submitted for review prior to purchasing. Products shall not be selected based on permit drawings without express permission - products shall be selected based on construction drawings.
10. Record Drawing
    a. The mechanical contractor shall be responsible for creating record drawings where required. Drawings shall be produced in Autocad 2004 format or later.
11. Testing
    a. All mechanical systems shall be tested for proper operation.
12. Fire Stopping
    a. Provide fire stopping at all penetrations through rated separations per local codes & regulations & per UL recommendations for assemblies encountered in project.
    b. The fire stopping material shall meet the integrity of the fire rated wall, floor, ceiling & roof being penetrated. Refer to architect's drawings for wall, floor, ceiling & roof fire ratings prior to bidding work.
    c. Refer to architect's drawings for wall, floor, ceiling, and roof fire ratings prior to bidding work.
13. Access Panels
    a. Provide ceiling and wall access panel quantities & locations to the general contractor prior to bidding. Access panels are required for all concealed appliances, controls devices, heat exchangers and HVAC system components that utilize energy. Where access panels are used, the access panel should be sized to allow accessibility for inspection, service, repair and replacement without disabling the function of a fire-resistance-rated assembly or removing permanent construction, other appliances, venting systems or any other piping or ducts not connected to the appliance being inspected, serviced, repaired or replaced. There shall be no extras for having to add access panels after bids are awarded.
14. Cutting and Patching
    a. Neatly do all cutting as required and patch all cut surfaces to match building construction. The contractor shall employ and pay a trade trained and qualified to perform the required patching work. All surfaces disturbed shall be restored with like materials to the satisfaction of the owner. All penetrations through roof shall be made by bonded roofer. Mechanical contractor shall pay all fees required.
15. Flashing & Counterflashing
    a. Roof flashing shall be furnished and installed by the roofing contractor. Roof counterflashing shall be furnished and installed by the mechanical contractor. Coordinate work with roofing contractor and pay all fees.
    b. Obtain approval from general contractor, construction manager, owner and/or roofing contractor prior to making any penetrations so that warranties are not compromised or voided.
16. Warranty
    a. The mechanical contractor shall unconditionally warrant all work to be free of defects in equipment, material and workmanship for a period of one (1) year from the date of final acceptance by owner. The mechanical contractor will repair or replace any defective work promptly and without charge to the owner.
    b. Restore any other existing work damaged in the course of repairing defective equipment, materials and workmanship.
17. Mechanical Work
    a. The mechanical contractor shall provide new hvac equipment, fans, ductwork, piping, air devices, controls as indicated on drawings and as specified. Startup and 1st year parts and labor warranty shall be included and manufacturer's extended warranties. Equipment and appliances shall be installed as required by the terms of their approval, in accordance with the conditions of the listing, the manufacturer's installation instructions, and the applicable code.
18. Owner's Instructions
    a. Provide two sets of complete operating and maintenance instructions with drawings, typewritten instructions and operating sequences and descriptive data sheets. Assemble each set in a hard-bound cover. Provide pdf files of all documentation.
19. Finale
    a. Put all equipment in service and demonstrate that all conditions of the contract have been fulfilled. Remove all tools, debris, etc. occasioned by work under this contract. 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 spiral lock-seam type, as shown on HVAC drawings. Assemble and install ductwork in accordance with recognized industry practice for achieving air tight (5% leakage) and noiseless (no objectionable noise) systems, capable of performing each indicated service. Furnish all required dampers, transitions, offsets, connections to air devices, and other accessories necessary for a complete operating system. Flexible ductwork shall not exceed 8'-0" long.
21. Adhesives and Sealants
    a. Seal all longitudinal and transverse duct joints with a UL 181A or 181B non-hardening, non-migrating mastic or liquid elastic sealant of a type recommended by the manufacturer for sealing joints and seams in sheet metal ductwork. Cover all field joints, joints around spin-in fittings and fastening screws with mastic. All sealants and gaskets shall have surface-burning characteristics with a maximum flame-spread index of 25 and a maximum smoke-developed index of 50 when tested according to UL 723.
    b. Exposed Ductwork: trim duct sealants flush with metal. Create a smooth and uniform exposed bead. Do not use two-part tape sealing system.
22. Duct Supports
    a. Furnish and install hot-dipped galvanized steel fasteners, hangers, anchors, rods, straps, trim, and angles for support of ductwork.
23. Flexible Connections
    a. Furnish and install neoprene flexible duct connections at the inlet and discharge of units and fans.
24. Duct Manual Volume Dampers
    a. Furnish and install opposed-blade, leak-proof volume control dampers where indicated on drawings and locations in supply, return and exhaust ducts where branches are taken from larger ducts or at each individual duct register in order to achieve system air balance quantities. Balancing devices must be provided in accordance with IMC 603.17. All manual volume dampers must be shown on coordination drawings when submitted for review.
25. Fire Dampers
    a. Furnish and install UL555 listed fire dampers as shown on the drawings and in accordance with NFPA and local and state codes. Refer to architectural drawings for all rated walls, floors, and roofs. Fire dampers shall be UL labeled and installed as shown on the drawings or as required by NFPA and codes. Dampers and sleeves shall meet construction requirements of NFPA 90A, 92A, and 92B. Dampers shall be AMCA licensed for air performance. Damper construction shall be a minimum 16-gauge steel frame for square or rectangular ducts and 14-gauge steel frame for round ducts. Damper blades shall be 16-gauge galvanized steel. Bearings and jamb seals shall be stainless steel. Each fire damper shall have a rating that meets the fire resistance requirement of the assembly rating and shall be supplied with a 165-degree F fusible link. Provide all necessary sleeves, angles, etc. Required to provide an installation in accordance with the damper manufacturer's installation instructions. Dampers shall be approved for vertical or horizontal mounting as required by the location shown and shall be labeled for use in dynamic systems.
26. Duct Access Doors
    a. Furnish and install conveniently located duct access doors of ample size and quantity for servicing the dampers.
27. Diffusers, Grilles and Registers
    a. Diffusers, grilles and registers shall be manufactured by titus, price, or engineered approved equal and shall be furnished and installed by the mechanical contractor. Diffusers shall be installed as indicated on the drawings and schedules. The mechanical contractor shall provide all miscellaneous items necessary for a complete and proper installation in the type of ceiling and walls used in this project.
28. Duct Thermal Insulation
    a. Provide external thermal insulation (unless noted otherwise) with an integral vapor facing of sufficient thickness and thermal resistance to meet local energy code requirements. Do not insulate exposed ductwork and portions of ductwork that are internally lined unless otherwise noted on drawings. Ductwork exposed to the weather shall be protected with an approved weatherproof barrier/jacketing. Insulation of all ductwork shall be continuous thru all walls and floors. Thermal insulation and sealers shall comply with NFPA flame spread of 25 or less, and smoke developed index of 50 or less.
29. Exhaust Fan
    a. Fan manufacturer shall be Broan, Cook, Greenheck, or engineered approved equal. Refer to drawings and schedules for unit location, technical data, and any applicable accessories.
30. Rooftop Unit
    a. Outdoor, rooftop mounted, electrically controlled, heating and cooling unit utilizing scroll compressors for cooling and natural gas for heating. Unit shall have standard manufacturer warranty on parts. Install per manufacturer's requirements. Refer to drawings and schedules for unit location, technical data, and accessories.
    b. Rooftop manufacturer shall be Trane, Tempmaster, Carrier, or equivalent.
31. Ducted Split Systems
    a. Split systems shall consist of high efficient air handling unit and associated heat pump. Equipment shall have manufacturer's standard warranty.
    b. Split system manufacturer shall be Tempstar, Mitsubishi, Goodman, or engineered equal.
32. Non-Ducted Mini-Split Systems
    a. Split systems shall consist of indoor air handler and associated outdoor heat pump unit. Equipment shall have manufacturer's standard warranty. Provide an inline check valve located in the drain line or trap.
    b. Mini-split system manufacturer shall be Mitsubishi, Daikin, or engineered equal.
33. Condensate Drain Piping
    a. The mechanical contractor shall furnish and install condensate drains, p-traps with removable cleanout caps for air equipment per manufacturer's recommendations. The p-trap depth shall be at least the depth specified for the respective pressure drop of the unit. Condensate drain piping shall be schedule 40 PVC pipe with solvent weld fittings. All condensate drain lines shall be configured to permit the clearing of blockages and performance of maintenance without requiring the drain line to be cut. For condensate pumps located in uninhabitable spaces (i.e. attics and crawl spaces), provide controls that will shut down the air equipment if the condensate pump fails.
    b. All cooling equipment shall have a wet switch in the primary drain line, the overflow drain line, or in the equipment-supplied drain pan (located at a point higher than the primary drain line connection and below the overflow rim of the pan) that will shut down the unit when the condensate is clogged.
34. Piping Supports (Metal Pipe)
    a. Furnish and install hot-dipped galvanized steel fasteners, hangers, anchors, rods, straps, trim and angles for support of piping.
35. Piping Supports (Plastic Pipe)
    a. Furnish and install hangers for plastic piping per manufacturer's requirements.
36. Temperature Controls and Control Wiring
    a. The mechanical contractor shall provide all control wiring necessary for the complete and proper operating temperature control system. Programmable thermostats shall be provided with equipment packages unless otherwise noted.
    b. Exposed wiring: All wiring exposed to the space shall be run in conduit. Coordinate requirements with architectural drawings.
37. Testing, Balancing, and Adjusting
    a. The individual performing the air balancing shall be a certified test and balancer and a member of NEBB or AABC, using calibrated equipment. The certified air balance contractor shall accurately balance the systems to provide air quantities as indicated on the drawings and in the schedules/specifications, operate automatic control systems, and verify set points during balancing.
38. Sequence of Operation
    a. Heaters
       1. EWH-1/2: heater shall be controlled from the integral thermostat. When the temperature of the space drops below the thermostat setpoint, the heater fan shall run and the electric heating element shall engage to maintain temperature setpoint.
       2. UH-1: unit heater shall run off a wall thermostat. When the temperature of the space drops below the thermostat setpoint, the heater fan shall run and the gas heat exchanger shall fire to maintain temperature setpoint.
    B. ERV
       1. ERV-1: exhaust fan shall run on a timeclock (furnished by the electrical contractor). The fan shall be set to run during occupied mode as determined by the architect/owner.
       2. Ventilation - the fan for both airstreams shall run during occupied mode to provide building ventilation/make-up and exhaust air.
    C. Split Systems
       1. AHU/CU-1:
       2. Cooling mode - when the thermostat calls for cooling the condensing unit shall engage, the fan shall run, and the dx cooling coil shall cool the air to maintain temperature setpoint.
       3. AHU/HP-2:
       4. 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.
       5. 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.

Sequence of Operation: VAV TERMINAL UNIT

Building Automation System Interface:
The Building Automation System (BAS) shall send the controller Occupied, and Unoccupied commands. The BAS may also send a Heat/Cool mode, priority shutdown commands, space temperature and/or space temperature setpoint. If communication is lost with the BAS, the controller shall operate using its local setpoints.

Occupied:
The occupancy mode shall be communicated or hardwired to the controller via a binary input. When the unit is in the occupied mode the VAV shall maintain the space temperature at the active occupied heating or cooling setpoint. Applicable ventilation and airflow setpoints shall be enforced. The occupied mode shall be the default mode of the VAV. Applicable ventilation and airflow setpoints shall be enforced. The occupied mode shall be the default mode of the VAV.

Occupied Standby:
The occupancy mode shall be communicated or hardwired to the controller via a binary input, even though the BAS has scheduled the space as occupied. In the occupied standby mode, the active cooling and heating setpoints shall be relaxed (see cooling and heating mode) and both the ventilation airflow and minimum airflow setpoints shall be lowered (see VAV schedule).

Unoccupied:
Normal operating mode for unoccupied spaces or nighttime operation. When the unit is in unoccupied mode the VAV controller shall maintain the space temperature at the stored unoccupied heating or cooling setpoint regardless of the presence of a hardwired or communicated setpoint. When the space temperature drops below its Unoccupied Heating Setpoint, the controller shall modulate the air damper and the hot water valve until the zone temperature rises back to 2.0 deg. F above the Unoccupied Heating Setpoint. When the space temperature exceeds the active unoccupied setpoint the hot water valve shall the air damper and hot water valve shall modulate fully closed.

Occupied Bypass:
Mode used to temporarily place the unit into the occupied operation. Tenants shall be able to override the unoccupied mode from the space sensor. The override shall last for a maximum of 4 hours (adj.). The tenants shall be able to cancel the override from the space sensor at any time. During the override the unit shall operate in occupied mode.

Heat/Cool Setpoint:
The space temperature setpoint shall be determined either by a local (e.g., thumbwheel) setpoint, the VAV default setpoint or a communicated value. The VAV shall use the locally stored default setpoints when neither a local setpoint nor communicated setpoint is present. If both a local setpoint and communicated setpoint exist, the VAV shall use the communicated value.

Cooling Mode:
When the unit is in cooling mode, the VAV controller shall maintain the space temperature at the active cooling setpoint by modulating the airflow between the active cooling minimum airflow setpoint to the maximum cooling airflow setpoint. The VAV shall use the measured space temperature and the active cooling setpoint to determine the requested cooling capacity of the unit. The outputs shall be controlled based on the unit configuration and the requested cooling capacity.
Based on the VAV controller occupancy mode, the active cooling setpoint shall be one of the following:

Setpoint	Default Value
Occupied Cooling Setpoint	74.0 deg. F
Unoccupied Cooling Setpoint	80.0 deg. F
Occupied Standby Cooling Setpoint	78.0 deg. F
Occupied Min Cooling Airflow Setpoint	See VAV Schedule
Occupied Max Cooling Airflow Setpoint	See VAV Schedule

Heating Mode:
Reheat shall only be allowed when the supply air temperature is 5.0 deg. F below the configured reheat enable setpoint of 70.0 deg. F (adj.). The reheat shall be enabled when the space temperature drops below the active heating setpoint and the minimum airflow requirements are met. During reheat the VAV shall operate at its minimum heating airflow setpoint and energize the heat as follows:

Setpoint	Default Value
Occupied Heating Setpoint	71.0 deg. F
Unoccupied Heating Setpoint	60.0 deg. F
Occupied Standby Heating Setpoint	67.0 deg. F
Occupied Min Heating Airflow Setpoint	See VAV Schedule
Occupied Max Heating Airflow Setpoint	See VAV Schedule

Local Reheat Control:
Reheat shall only be allowed when the primary air temperature is 5.0 deg. F below the configured reheat enable setpoint of 70.0 deg. F (adj.). The reheat shall be enabled when the space temperature drops below the active heating setpoint and the minimum airflow requirements are met. During reheat the VAV shall operate at its minimum heating airflow setpoint and energize the heat as follows:

Electric Silicon Controlled Rectifier Reheat (SCR):
If the space temperature is at the heating setpoint, the electric heater shall modulate as required to maintain space temperature at the active heating setpoint while the VAV operates at its minimum heating airflow setpoint. If the discharge air temperature reaches the design heating discharge air temperature setpoint (adj.), the VAV shall modulate airflow between the minimum heating airflow setpoint and the maximum heating airflow setpoint as required to maintain space temperature at the active heating setpoint, while the electric heater modulates to maintain discharge air temperature at the design heating discharge air temperature setpoint. If the airflow reaches the maximum heating airflow setpoint, the VAV shall modulate the electric heater as required to maintain space temperature at the active heating setpoint, while the VAV operates at its maximum heating airflow setpoint

Space Sensor Failure:
If there is a fault with the operation of the zone sensor an alarm shall be annunciated at the BAS. Space sensor failure shall cause the VAV to drive the damper to minimum air flow if the VAV is in the occupied mode, or drive it closed if the VAV is in the unoccupied mode.

Sequence of Operation: PACKAGED RTU

Building Automation System Interface:
The Building Automation System (BAS) shall send the controller Occupied Bypass, Morning Warm-up/Pre-Cool, Occupied/Unoccupied and Heat/Cool modes. The BAS shall also send the discharge air temperature setpoint and the duct static pressure setpoint. If a BAS is not present, or communication is lost with the BAS the controller shall operate using default modes and setpoints.

Occupied:
During occupied periods, the supply fan shall run continuously. The unit controller shall control the supply fan speed to maintain the current supply duct static pressure setpoint (adj.). Upon a call for DX cooling, the unit controller shall enable the first fixed speed compressor. If the fixed speed compressor cannot satisfy the load conditions, the unit controller shall start the next fixed speed compressor in sequence to add to the total unit cooling load percentage. This process shall repeat until all of the fixed speed compressors have been started or until the active discharge air temperature setpoint is satisfied. The gas heat shall be enabled and controlled to maintain the active discharge air temperature setpoint. If the discharge air temperature sensor fails, the DX cooling shall be disabled, the gas heat shall be disabled, and an alarm shall annunciate at the BAS.

Unoccupied:
When the space temperature is below the unoccupied heating setpoint of 60.0 deg. F (adj.) the supply fan shall be commanded on and the gas heat shall be enabled. When the space temperature rises above the unoccupied heating setpoint of 60.0 deg. F (adj.) plus the unoccupied differential of 4.0 deg. F (adj.) the supply fan shall stop and the gas heat shall be disabled. When the space temperature is above the unoccupied cooling setpoint of 85.0 deg. F (adj.) the supply fan shall be commanded on and the DX cooling shall be enabled. When the space temperature falls below the unoccupied cooling setpoint of 85.0 deg. F minus the unoccupied differential 4.0 deg. F (adj.) the supply fan shall stop and the DX cooling shall be disabled.

Optimal Start:
The BAS shall monitor the scheduled occupied time, occupied space setpoints and space temperature to calculate when the optimal start occurs.
Optimal Stop:
The BAS shall monitor the scheduled unoccupied time, occupied setpoints and space temperature to calculate when the optimal stop occurs. When the optimal stop mode is active the unit controller shall maintain the space temperature to the space temperature offset setpoint.

Morning Warm-Up Mode:
During optimal start, if the average space temperature is below the occupied heating setpoint a morning warm-up mode shall be activated. When morning warm-up is initiated the unit shall enable the heating and fan(s). When the space temperature reaches the occupied heating setpoint (adj.), the unit shall transition to the occupied mode.

Pre-Cool Mode:
During optimal start, if the average space temperature is above the occupied cooling setpoint, pre-cool mode shall be activated. When pre-cool is initiated the unit shall enable the fan and cooling. The outside air damper shall remain closed. When the space temperature reaches occupied cooling setpoint (adj.), the unit shall transition to the occupied mode.

Occupied Bypass:
The BAS shall monitor the status of the ON and CANCEL buttons of the space temperature sensors. When an occupied bypass request is received from a space sensor, the unit shall transition from its current occupancy mode to occupied bypass mode and the unit shall maintain the space temperature to the occupied setpoints (adj.).
Heat/Cool Mode:

COOLING: The unit controller shall use the discharge air temperature sensor and discharge air temperature cooling setpoint to determine when to initiate requests for cooling. Discharge air setpoint shall be maintained by controlling the cooling as required.

HEATING: The unit controller shall use the discharge air temperature sensor and discharge air temperature heating setpoint to determine when to initiate requests for heating. Discharge air setpoint shall be maintained by controlling the heating as required. During Unoccupied Heating or Morning Warm-Up Mode, the unit heat request shall be communicated to the system VAVs prior to commencing heating operation to allow VAV units to open. The variable frequency drive shall be commanded to 100% and the heat shall be staged on and off to satisfy the zone temperature setpoint.

Supply Fan:
The supply fan shall be enabled while in the occupied mode and cycled on during the unoccupied mode.

Static Pressure High Limit:
If for any reason the supply air pressure exceeds the fixed supply air pressure limit of 3.5 inches of W.C. the supply fan shall shut down. The unit shall be allowed to restart three times. If the over pressurization condition occurs on the fourth restart, the unit shall shut down and a manual reset diagnostic is displayed at the remote panel and/or the BAS system.

Filter Status:
A differential pressure switch shall monitor the differential pressure across the filter(s) when the fan is running. If the switch closes during normal operation a dirty filter alarm shall annunciate at the BAS.
Refrigerant Mitigation Mode:
The unit controller shall monitor the leak detection system, when a leak is detected, an alarm shall promptly alert the BAS via BACnet Change-of-Value (COV) and mitigation shall be activated.

In occupied mode, the supply fan shall remain operational, and the compressor(s), electric heating, fuel-fired heating, electrostatic devices, and any other ignition device starters shall be disabled, and activate mechanical ventilation (if it's required by Section 7.6.4 of the ASRAE standard). for the duration of the mitigation process plus an additional 5 minutes.

In unoccupied mode, the supply fan shall remain operational, and the compressor(s), electric heating, fuel-fired heating, electrostatic devices, and any other ignition device starters shall be disabled, and activate mechanical ventilation (if it's required by Section 7.6.4 of the ASRAE standard). for the duration of the mitigation process plus an additional 5 minutes.

Economizer:

1.Economizer Enable
- -Economizer enables when OA enthalpy < RA enthalpy and all sensors are valid.
- -OA temperature must be above low-limit.
- -A call for cooling is present.

2. Economizer Cooling Operation
- -On a cooling call and economizer enabled, the OA damper modulates open to maintain 55°F mixed-air temperature.
- -RA damper modulates opposite of OA damper.
- -If OA damper reaches full open and additional cooling is needed, mechanical cooling stages energize as required.

3. Minimum Ventilation
- -When no cooling call exists or economizer is disabled, OA damper closes.

4. Low-Limit Protection
- -If mixed-air temperature drops below low limit, OA damper modulates closed to protect coils.
- -If temperature continues dropping, economizer disables and OA damper closes.

5. High OA Enthalpy/Temperature Lockout
- -Economizer disables and OA damper returns closes if OA enthalpy becomes higher than RA or exceeds high-limit setpoint.

6. Damper Fail-Safe
- -On loss of power or control signal:
  - -OA damper fails closed
  - -RA damper fails open

7. Fault Conditions
- -Economizer disables and generates a fault/alarm if:
  - -OA or RA enthalpy sensor fails
  - -Damper actuator fault/stuck condition
  - -Mixed-air temperature out of range

Points List - PACKAGED RTU

Point Name	POINTS									ALARMS					
	GRAPHIC	ANALOG HARDWARE INPUT (AI)	BINARY HARDWARE INPUT (BI)	ANALOG HARDWARE OUTPUT (AO)	BINARY HARDWARE OUTPUT (BO)	SOFTWARE POINT (SFT)	HARDWARE INTERLOCK (HDW)	WIRELESS (WLS)	NETWORK (NET)	HIGH ANALOG LIMIT	LOW ANALOG LIMIT	BINARY	LATCH DIAGNOSTIC	SENSOR FAIL	COMMUNICATION FAIL
COMPRESSOR 1 COMMAND CMP1	X				X										
COMPRESSOR 2 COMMAND CMP2	X				X										
COMPRESSOR 3 COMMAND CMP3	X				X										
COOLING OUTPUT COMMAND CLG	X			X											
DISCHARGE AIR STATIC PRESSURE LOCAL DA SP		X								X	X		X		
DISCHARGE AIR TEMPERATURE DAT	X	X												X	
GAS HEAT STAGE 1 GH1	X				X										
GAS HEAT STAGE 2 GH2	X				X										
HEATING OUTPUT 1 HT1	X				X										
HEATING OUTPUT 2 HT2	X				X										
PRIMARY FILTER STATUS LOCAL FIL	X		X									X			
REFRIGERANT LFL CONCENTRATION ALARM THRESHOLD SENSOR A R ALM A		X													
REFRIGERANT LFL CONCENTRATION ALARM THRESHOLD SENSOR B R ALM B		X													
REFRIGERANT LFL CONCENTRATION ALARM THRESHOLD SENSOR C R ALM C		X													
REFRIGERANT LFL CONCENTRATION ALARM THRESHOLD SENSOR D R ALM D		X													
REFRIGERANT CONCENTRATION BAS R PPM				X											
REFRIGERANT HIGH SIDE PRESSURE (63HS1) R HI		X													
REFRIGERANT LOW SIDE PRESSURE (63LS) R LO		X													
DUCT REFRIGERANT MONITOR R PPM		X													
REFRIGERANT LEAK DETECTION SYSTEM INPUT R IN			X												
REFRIGERANT LEAK SENSOR COMMUNICATION STATUS SENSOR A R STS A						X									
REFRIGERANT LFL CONCENTRATION SENSOR A R PPM A		X													
REFRIGERANT LFL CONCENTRATION SENSOR B R PPM B		X													
REFRIGERANT LFL CONCENTRATION SENSOR C R PPM C		X													
REFRIGERANT LFL CONCENTRATION SENSOR D R PPM D		X													
REFRIGERANT MITIGATION ACTIVE R MGT			X												
REFRIGERANT TYPE R TYPE						X									
SUPPLY FAN SPEED SAF				X											
SUPPLY FAN START/STOP SAF	X				X										
APPLICATION MODE APP MODE						X									
BAS COMMUNICATION STATE BAS COM						X									X
COMPRESSOR ENABLE CMP ENA	X					X									
COMPRESSOR LOCKOUT STATUS CMP LCK						X									
COOL OUTPUT CLG						X									
DISCHARGE AIR STATIC PRESSURE SETPOINT DA SP SPT	X					X									
FAN MODE COMMAND FAN MODE						X									
FILTER TIMER HOURS FIL HRS						X									
HEAT / COOL MODE REQUEST H/C REQ	X					X									
HEAT OUTPUT HTG						X									
OCCUPANCY OCC	X					X									
OCCUPIED COOLING SETPOINT OCC CLG SP	X					X									
TIMED OVERRIDE STATUS TOV						X									
UNOCCUPIED COOLING SETPOINT UNOCC CLG SP	X					X									
UNOCCUPIED HEATING SETPOINT UNOCC HTG SP	X					X									
COOLING COIL LEAVING TEMPERATURE CCT	X	X													

Points List - VAV TERMINAL UNIT

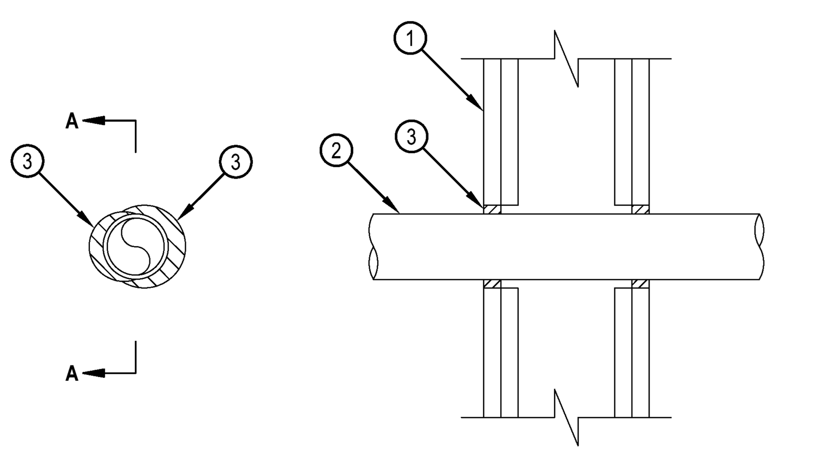
Point Name	POINTS									ALARMS					
	GRAPHIC	ANALOG HARDWARE INPUT (AI)	BINARY HARDWARE INPUT (BI)	ANALOG HARDWARE OUTPUT (AO)	BINARY HARDWARE OUTPUT (BO)	SOFTWARE POINT (SFT)	HARDWARE INTERLOCK (HDW)	WIRELESS (WLS)	NETWORK (NET)	HIGH ANALOG LIMIT	LOW ANALOG LIMIT	BINARY	LATCH DIAGNOSTIC	SENSOR FAIL	COMMUNICATION FAIL
AIR VALVE DRIVE OPEN COMMAND AIR VLV OPN	X				X										
AIR VALVE DRIVE CLOSE COMMAND AIR VLV CLS	X				X										
DISCHARGE AIR TEMPERATURE DAT	X	X								X	X			X	
LOCAL HEAT ELECTRIC SCR OUTPUT EH	X			X											
SPACE TEMPERATURE LOCAL SPT	X							X							
SPACE TEMPERATURE SETPOINT LOCAL SPT SP	X							X							
SUPPLY AIRFLOW DA FLW	X	X								X	X				
BAS COMMUNICATION STATE BAS COM						X									X
DESIGN HEAT DISCHARGE AIR TEMP SETPOINT DSNG HT DAT SP						X									
MAXIMUM COOLING AIRFLOW SETPOINT MAX CLG FLW SP						X									
MINIMUM COOLING AIRFLOW SETPOINT MIN CLG FLW SP						X									
MAXIMUM HEATING AIRFLOW SETPOINT MAX HTG FLW SP						X									
MINIMUM HEATING AIRFLOW SETPOINT MIN HTG FLW SP						X									
OCCUPIED BYPASS TIMER OCC TMR	X					X									
OCCUPIED COOLING SETPOINT OCC CLG SP	X					X									
OCCUPIED HEATING SETPOINT OCC HTG SP	X					X									
UNOCCUPIED COOLING SETPOINT UNOCC CLG SP	X					X									
SPACE OCCUPANCY (COMMUNICATED) OCC SP	X								X						
UNOCCUPIED HEATING SETPOINT UNOCC HTG SP	X					X									

Classified by Underwriters Laboratories, Inc. to UL 1479

System No. W-L-2474

WL 2474

F Ratings — 1 and 2 Hr (See Item 1)
T Rating —0 Hr
L Rating At Ambient — Less Than 1 CFM/Sq Ft
L Rating at 400 F — 4 CFM/Sq Ft



1. Wall Assembly — The fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400, V400 or W400 Series Wall and Partition Designs in the UL fire Resistance Directory and shall include the construction features noted below:
   A. Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced max 16 in. (406 mm) OC. Steel studs to be min 3-1/2 in. (89 mm) wide and spaced max 24 in. (610 mm) OC.
   B. Gypsum Board* — Nom 5/8 in. (16 mm) thick gypsum board, as specified in the individual Wall and Partition Design. Diam of opening shall be 1 in. (25 mm) larger than the nom pipe diam.
   The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.
2. Through Penetrants — One nonmetallic pipe to be installed either concentrically or eccentrically within the firestop system. The annular space between pipe and the periphery of the opening shall be min 0 in. (point contact) to a max 1/2 in. (13 mm). The following types and sizes of nonmetallic pipes may be used:
   A. Polyvinyl Chloride (PVC) Pipe — Nom 2 in. (51 mm) diam (or smaller) cellular or solid core Schedule 40 (or heavier) pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
   B. Chlorinated Polyvinyl Chloride (CPVC) Pipe — Nom 2 in. (51 mm) diam (or smaller) SDR 13.5 CPVC pipe for use in closed (process or supply) piping systems.
   C. Crosslinked Polyethylene (PEX) Tubing — Nom 2 in. (51 mm) diam (or smaller) SDR 9 PEX tubing for use in closed (process or supply) piping systems.
   D. Rigid Nonmetallic Conduit (RNC)+ — Nom 2 in. diam (or smaller) Schedule 40 PVC conduit installed in accordance with the National Electrical Code (NFPA No. 70).
3. Fill, Void or Cavity Material* - Sealant — Min 5/8 in. (16 mm) thickness of fill material applied within annulus, flush with both surfaces of wall. At point contact location, a min 5/8 in. (16 mm) diam bead of fill material shall be applied to the wall/penetrant interface on both surfaces of the wall.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE Sealant or FS-ONE MAX Intumescent Sealant
* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.
\+ Bearing the UL Listing Mark

Hilti Firestop Systems

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SANTA MARIA COMMUNITY SERVICES

model group

JS|HELD

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CERTIFICATION

STATE OF OHIO
SCOTT SEVERT STILKEY
E-77755
REGISTERED PROFESSIONAL ENGINEER

REVISIONS

#	DATE	DESCRIPTION
	01/30/2026	PERMIT ISSUE

PROJECT #: 6568
DRAWN: RTT **CHECKED:** SSS

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MECHANICAL DETAILS

M302

ELECTRICAL ABBREVIATIONS:

A	AMPS
A/E	ARCHITECT/ENGINEER
ABV	ABOVE
AC	ABOVE COUNTER
ACP	ACCESS CONTROL PANEL
ACPS	ACCESS CONTROL POWER SUPPLY
ACS	ACCESS CONTROL SYSTEM
AF	AMP FRAME
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	AVAILABLE INTERRUPTING CURRENT
ALT	ALTERNATE
ALT SW	ALTERNATOR SWITCH
ARCH	ARCHITECT
ATS	AUTOMATIC TRANSFER SWITCH
AV	AUDIO-VISUAL
BC	BELOW COUNTER
BFG	BELOW FINAL GRADE
BKR	BREAKER
BLDG	BUILDING
BOL	BUILT IN OVERLOAD
BPC	BOLTED PRESSURE CONTACT SWITCH
CATV	CABLE TELEVISION
CB	CIRCUIT BREAKER
CCTV	CLOSED CIRCUIT TELEVISION
CKT	CIRCUIT
CLG	CEILING
CP	CONTROL PANEL
CS	COMBINATION STARTER
CT	CURRENT TRANSFORMER
CTRL	CONTROLLER
DE	DUAL ELEMENT FUSES
DIR	DIRECT
DISC	DISCONNECT
DN	DOWN
EC	ELECTRICAL CONTRACTOR
ELEV	ELEVATION REFERENCE
EM	EMERGENCY
EMT	ELECTRIC METALLIC TUBING
ENT	ELECTRICAL NON-METALLIC TUBING
EOL	END OF LINE RESISTOR
EP	EXPLOSION PROOF
EQUIP	EQUIPMENT
EWC	ELECTRIC WATER COOLER
F	FUSE
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FAC	FIRE ALARM CABINET
FACP	FIRE ALARM CONTROL PANEL
FBO	FURNISHED BY OTHERS
FDR	FEEDER
FIXT	FIXTURE
FLA	FULL LOAD AMPS
FLR	FLOOR
FLUOR	FLUORESCENT
FS	FLOW SWITCH
FVNR	FULL VOLTAGE NON-REVERSING
GC	GENERAL CONTRACTOR
GFI	GROUND FAULT INTERRUPTER
GRC	GALVANIZED RIGID CONDUIT
GRD	GROUND
GYP	GYPSUM BOARD
HID	HIGH INTENSITY DISCHARGE
HOA	HAND-OFF-AUTO SWITCH
HP	HORSEPOWER
HPS	HIGH PRESSURE SODIUM
HV	HIGH VOLTAGE
HVAC	HEATING & VENTILATING - AIR CONDITIONING
HVC	HEATING VENTILATING CONTRACTOR
HW	HEAVYWALL
ICP	INTERCOM CONTROL PANEL
ICPS	INTERCOM POWER SUPPLY
ID	INDIRECT
IDF	INTERMEDIATE DISTRIBUTION FRAME
IL	INTERLOCK
IMC	INTERMEDIATE METAL CONDUIT
INC	INCANDESCENT
IU	IN UNIT
J-BOX	JUNCTION BOX
LCP	LIGHTING CONTROL PANEL
LG	LAY-IN GRID
LTG	LIGHTING
LV	LOW VOLTAGE
LVT	LINE VOLTAGE THERMOSTAT
MAG	MAGNETIC STARTER
MAN	MANUAL STARTER
MCC	MOTOR CONTROL CENTER
MDF	MAIN DISTRIBUTION FRAME
MDP	MAIN DISTRIBUTION PANEL
MFR	MANUFACTURERR
MLO	MAIN LUGS ONLY
MSB	MAIN SWITCHBOARD
MTD	MOUNTED
NIC	NOT IN CONTRACT
NU	NEAR UNIT
OU	ON UNIT
P	POLE
PB	PUSH BUTTON
PC	PHOTO CONTROL
PCP	PAGING CONTROL PANEL
PCPS	PAGING CONTROL POWER SUPPLY
PE SW	PNEUMATIC SWITCH
PEND	PENDANT
PLBG	PLUMBING CONTRACTOR
PNL	PANEL
R	RELAY
REC	RECESS
RECEPT	RECEPTACLE
RM	ROOM
RVS	REDUCED VOLTAGE STARTING
S	SPLINE
SDB	SUB-DISTRIBUTION BOARD
SEL SW	SELECTOR SWITCH
SP SW	SPEED SWITCH
SURF	SURFACE
SW	SWITCH
T-STAT	THERMOSTAT
TC	TIME CLOCK
TCC	TEMPERATURE CONTROL CONTRACTOR
TCP	TEMPERATURE CONTROL PANEL
TS	TAMPER SWITCH
TYP	TYPICAL
UG	UNDERGROUND
UNIV	UNIVERSAL
USS	UNIT SUBSTATION
VS	VIDEO SURVEILLANCE
WP	WEATHERPROOF
XFMR	TRANSFORMER

RENOVATION LEGEND:

<E>	EXISTING TO REMAIN
<EC>	EXISTING DEVICE TO REMAIN, NEW CIRCUIT AS INDICATED
<ED>	EXISTING LOCATION, NEW DEVICE OR EQUIPMENT TO BE INSTALLED IN PLACE
<EL>	EXISTING LIGHT FIXTURE TO REMAIN, NEW LAMPING AS INDICATED
<ER>	EXISTING TO BE RELOCATED
<EO>	EXISTING TO BE REMOVED
<EN>	EXISTING IN NEW LOCATION
<N>	NEW
<RAI>	REMAIN AS IS

SYMBOL LIST NOTE:

MOUNTING HEIGHTS FOR DEVICES AND EQUIPMENT TO BE MEASURED FROM FLOOR TO CENTERLINE OF DEVICE. DEVICES EXTENDING GREATER THAN 4" FROM THE WALL SHALL HAVE A MINIMUM MOUNTING HEIGHT OF 80" AFF TO BOTTOM OF DEVICE.

PANELS:

'XXX' 'XXX' — ELECTRICAL PANEL - SURFACE / RECESSED

EQUIPMENT CABINETS:

WITHOUT DOOR - SURFACE / RECESSED
'XXX' 'XXX' — WITH DOOR - SURFACE / RECESSED

DENOTES THE FOLLOWING
- (BDAP) BI-DIRECTIONAL AMPLIFIER PANEL (2 WAY COMM)
- (ERP) ELEVATOR RECALL PANEL
- (ESP) ELEVATOR STATUS PANEL
- (FAAP) FIRE ALARM ANNUNCIATOR PANEL
- (FACP) FIRE ALARM CONTROL PANEL
- (GAP) GENERATOR ANNUNCIATOR PANEL
- (HPCP) HOSPITAL PAGING CONTROL PANEL
- (LCP) LIGHTING CONTROL PANEL
- (MSCP) MUSIC SYSTEM CONTROL PANEL
- (NACP) FIRE ALARM NOTIFICATION APPLIANCE CIRCUIT - CONTROL PANEL
- (NCCP) NURSE CALL CONTROL PANEL
- (RACP) RESCUE ASSISTANCE CONTROL PANEL
- (SACP) SECURITY ACCESS CONTROL PANEL
- (SCP) SMOKE CONTROL PANEL
- (SMCP) SOUND MASKING CONTROL PANEL

POWER:

SIMPLEX RECEPTACLE - MOUNTED 18" AFF UNLESS NOTED OTHERWISE

X XXX — DUPLEX RECEPTACLE - MOUNTED 18" AFF UNLESS NOTED OTHERWISE

XXX DENOTES THE RECEPTACLE TYPE OR EQUIPMENT SERVED
- (AF) ARC FLASH (AFCI)
- (CL) CLOCK RECEPTACLE
- (CM) COFFEE MAKER
- (D) DEDICATED CIRCUIT
- (DD) DOUBLE DUPLEX
- (FZR) FREEZER
- (ICE) ICE MAKER
- (MW) MICROWAVE
- (REF) REFRIGERATOR
- (TR) TAMPER RESISTANT
- (TV) MOUNTED ADJACENT TO TELEVISION
- (UCR) UNDER CABINET REFRIGERATOR
- (WP) WEATHERPROOF WITH GFI RECEPTACLE

X DENOTES CIRCUIT NUMBER (SEE PANEL BOUNDARIES)

DUPLEX RECEPTACLE - ISOLATED GROUND - MOUNTED AT 18" AFF UNLESS NOTED OTHERWISE

DUPLEX RECEPTACLE - GFCI (INDICATED BY CENTER HATCH) - MOUNTED 18" AFF UNLESS NOTED OTHERWISE

DUPLEX RECEPTACLE - GFCI - MOUNTED 4" ABOVE COUNTERTOP OR COUNTER BACKSPLASH WHERE PRESENT

DUPLEX RECEPTACLE - SWITCHED TOP HALF - MOUNTED 18" AFF UNLESS NOTED OTHERWISE

DUPLEX RECEPTACLE - MOUNTED 4" ABOVE COUNTERTOP OR COUNTER BACKSPLASH WHERE PRESENT

DUPLEX RECEPTACLE - CEILING MOUNTED

DUPLEX RECEPTACLE - FURNITURE MOUNT

NON NEMA 5-20R RECEPTACLE

QUADRUPLEX RECEPTACLE - MOUNTED 18" AFF UNLESS NOTED OTHERWISE

QUADRUPLEX RECEPTACLE - GFCI (INDICATED BY CENTER HATCH) - MOUNTED 18" AFF UNLESS NOTED OTHERWISE

QUADRUPLEX RECEPTACLE - SWITCHED TOP HALF - MOUNTED 18" AFF UNLESS NOTED OTHERWISE

QUADRUPLEX RECEPTACLE - MOUNTED 4" ABOVE COUNTERTOP OR COUNTER BACKSPLASH WHERE PRESENT

QUADRUPLEX RECEPTACLE - CEILING MOUNTED

QUADRUPLEX RECEPTACLE - FURNITURE MOUNT

QUADRUPLEX RECEPTACLE - ISOLATED GROUND

XX — SPECIAL OUTLET (SEE SCHEDULE). WALL / CEILING OR FLOOR MOUNTED

X # — FLOOR MOUNTED ELECTRICAL BOX (SEE SCHEDULE FOR DEVICES REQUIRED)

# DENOTES CIRCUIT NUMBER (SEE PANEL BOUNDARIES) - TYPICAL

X INDICATES DEVICE TYPE (SEE SCHEDULE)

X PP — POWER POLE. X DENOTES DEVICE TYPE AND INCLUDED RECEPTACLES.

DISCONNECT SWITCH

FUSED DISCONNECT SWITCH

MOTOR STARTER

METER SOCKET

T-XX T-XX — TRANSFORMER. WALL / FLOOR MOUNTED

INDICATES TRANSFORMER MOUNTED ON EQUIPMENT PAD

J — JUNCTION BOX WITH WHIP FOR FURNITURE FEED

J — JUNCTION BOX

PULL BOX

LP XXX — LIGHTNING PROTECTION SYSTEM

XXX DENOTES THE FOLLOWING
- (ATH) AIR TERMINAL ROOF DECK
- (ATV) AIR TERMINAL PARAPET
- (GRD) GROUND TO DOWN CONDUCTOR
- (GRS) GROUND TO BUILDING STEEL
- (RPD) ROOF PENETRATION TO DOWN CONDUCTOR
- (RPS) ROOF PENETRATION TO BUILDING STEEL

XXX — PUSHBUTTON SWITCH - MOUNT AT 44" AFF UNLESS NOTED OTHERWISE

XXX DENOTES THE FOLLOWING
- (CD) COMPUTER DROP OUT
- (D) DOOR BELL STATION
- (EPO) EMERGENCY - POWER OFF STATION
- (ES) EQUIPMENT SHUTDOWN
- (F) FAN SHUTDOWN

AD — AUTOMATIC DOOR OPERATOR (SEE ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHT)

GM — GROUND MODULE

GROUND ROD

MARK / X / X / NUMBER — EQUIPMENT TAG

— MOTOR CONNECTION

CONDUCTOR QUANTITY IN RACEWAY. NUMBERS INDICATE WIRE SIZES (AWG).
- INDICATES PHASE CONDUCTOR
- INDICATES NEUTRAL CONDUCTOR
- INDICATES GREEN GROUND CONDUCTOR

LIGHTING:

NOTE: SHADING ANY OF THE LIGHTING FIXTURE INDICATES UNIT IS WIRED TO AN EMERGENCY OR NIGHT LIGHTING CIRCUIT.

CEILING MOUNTED FIXTURE - SURFACE / RECESSED

1Ra A
- FIXTURE DESIGNATION (SEE SCHEDULE)
- SWITCH LEG. NO DESIGNATION INDICATES PORTION OF CIRCUIT SWITCHED FROM LOCAL SWITCH AND/OR OCCUPANCY SENSOR
- SWITCHING DEVICE. NO DESIGNATION INDICATES PORTION OF CIRCUIT SWITCHED FROM LOCAL SWITCH AND/OR OCCUPANCY SENSOR. (R) CIRCUIT SWITCHED VIA RELAY IN RELAY CABINET
- CIRCUIT NUMBER (SEE PANEL BOUNDARIES)

ILLUMINATED DOME FIXTURE - RECESSED

STRIP LIGHT FIXTURE

LINEAR WALL MOUNTED FIXTURE

TRACK LIGHT FIXTURE - SPOT LIGHT / PENDANT

CEILING MOUNTED DOWNLIGHT FIXTURE - SURFACE / RECESSED

CEILING MOUNTED DOWNLIGHT FIXTURE - WALL WASH - SURFACE / RECESSED

POLE MOUNTED FIXTURE

WALL MOUNTED FIXTURE - SURFACE / RECESSED

GROUND MOUNTED FIXTURE - BOLLARD / FLOOD OR ACCENT

EXIT LIGHT - WALL MOUNTED / CEILING MOUNTED
PROVIDE DIRECTIONAL ARROWS AS INDICATED ON PLAN

EMERGENCY BATTERY POWER SPOT ILLUMINATION UNIT - DUAL HEAD LIGHT - WALL MOUNT 12" BELOW CEILING UNLESS NOTED OTHERWISE.

BATTERY PACK REMOTE HEAD SPOT ILLUMINATION UNIT

SWITCHING DEVICES:

NOTE: ALL SWITCHING DEVICES SHALL BE MOUNTED AT 44" AFF, UNLESS OTHERWISE NOTED.

X $ XX — SINGLE POLE TOGGLE SWITCH

XX DENOTES THE FOLLOWING
- (2) DOUBLE POLE
- (3) 3 WAY
- (4) 4 WAY
- (DLS) DUAL LEVEL SWITCHING
- (K) KEY OPERATED
- (P) WITH PILOT LIGHT INDICATION
- (T) TIMER SWITCH

X DENOTES SWITCH DESIGNATION (LOWER CASE)

DIMMER SWITCH

MOMENTARY CONTACT SWITCH

SURGICAL LIGHT CONTROL

X DS — DAYLIGHT SENSOR. X DENOTES SPECIFIC UNIT (SEE SCHEDULE)

MD — MOTION DETECTOR.

X OS — OCCUPANCY SENSOR. X DENOTES SPECIFIC UNIT (SEE SCHEDULE)

X VS — VACANCY SENSOR. X DENOTES SPECIFIC UNIT (SEE SCHEDULE)

X C — CONTACTOR. X DENOTES SPECIFIC UNIT (SEE SCHEDULE)

X D — DIMMING SYSTEM CONTROL STATION. X DENOTES STATION IDENTIFIER (SEE SCHEDULE)

X L — LOW VOLTAGE SWITCH STATION. X DENOTES STATION IDENTIFIER (SEE SCHEDULE)

X PC — PHOTO-CONTROL. X DENOTES SPECIFIC UNIT (SEE SCHEDULE)

X T — TIME CLOCK. X DENOTES SPECIFIC UNIT (SEE SCHEDULE)

PW — POWER PACK

TECHNOLOGY:

REFER TO TECHNOLOGY OUTLET SCHEDULE FOR DEVICE REQUIREMENTS

X# — # DENOTES QUANTITY
X DENOTES DEVICE TYPE (SEE SCHEDULE)

X# — TECHNOLOGY OUTLET WITH BACKBOX, CONDUIT, AND INDICATED DEVICES AND CABLES. 4" ABOVE COUNTER/COUNTER BACKSPLASH WHERE PRESENT.

X# — TECHNOLOGY OUTLET WITH BACKBOX, CONDUIT, AND INDICATED DEVICES AND CABLES. 18" AFF UNLESS NOTED OTHERWISE.

X# — TECHNOLOGY OUTLET WITH BACKBOX, CONDUIT, AND INDICATED DEVICES AND CABLES. FURNITURE MOUNTED.

X — FLOOR MOUNTED DATA BOX (SEE SCHEDULE FOR DEVICES REQUIRED)

X — CEILING MOUNTED DATA BOX (SEE SCHEDULE FOR DEVICES REQUIRED)

X INDICATES DEVICE TYPE (SEE SCHEDULE)

WAP WAP — WIRELESS ACCESS POINT (REFER TO TECHNOLOGY OUTLET SCHEDULE)

SLEEVE THROUGH WALL

FIRE RATED SLEEVE THROUGH FLOOR

CONDUIT SLEEVE THROUGH FLOOR

FREE STANDING OPEN FRAME DATA CABINET.
(HEAVY LINE INDICATES FRONT OF CABINET)

FREE STANDING ENCLOSED FRAME DATA CABINET.
FLOOR MOUNTED / WALL MOUNTED.
(HEAVY LINE INDICATES FRONT OF CABINET)

GROUND BUS BAR

LADDER RACK / CABLE TRAY

XX / ##" ##" / #'-#"
- XX DENOTES TYPE:
  - (LR) LADDER RACK
  - (CT) CABLE TRAY
- RACK / TRAY HEIGHT
- HEIGHT TO BOTTOM OF RACK / TRAY
- RACK / TRAY WIDTH

T XX T XX — TELEVISION SYSTEM

XX DENOTES THE FOLLOWING
- (CC) REMOTE TELEVISION CHANNEL CHANGER
- (CT) CABLE TELEVISION OUTLET
- (CV) REMOTE TELEVISION CHANNEL CHANGER WITH VOLUME CONTROL
- (DVR) DIGITAL VIDEO RECORDER
- (MA) MASTER ANTENNA OUTLET
- (MC) MASTER ANTENNA OUTLET CEILING MOUNTED
- (MO) CLOSED CIRCUIT TELEVISION MONITOR
- (MS) MASTER ANTENNA OUTLET MOUNTED AT A SPECIAL HEIGHT EITHER INDICATED ON THE DRAWINGS OR ON ARCHITECTURAL ELEVATIONS
- (MW) MASTER ANTENNA OUTLET WALL
- (NVR) NETWORK VIDEO RECORDER

XX / XX / XX — ANTENNA

ANTENNA TYPE:
- (BO) BY OTHERS
- (DR) DIRECTIONAL
- (MD) MULTIDIRECTIONAL
- (OD) OMNI DIRECTIONAL

SYSTEM SERVED:
- (AC) ATOMIC CLOCK
- (AF) AM/FM RADIO
- (AR) AMBULANCE RADIO
- (DAS) DISTRIBUTED ANTENNA SYSTEM
- (HR) HAM RADIO
- (RTLS) REAL TIM LOCATING SERVICES
- (TS) TELELMETRY SYSTEM
- (UHF) ULTRA HIGH FREQUENCY
- (VHF) VERY HIGH FREQUENCY

MOUNTING:
- (CM) CEILING MOUNT
- (RM) NON PENETRATING ROOF MOUNT
- (TM) ANTENNA TOWER MOUNT
- (WM) WALL MOUNT

SECURITY:

D XX D XX — DOOR HARDWARE INSTALLATION - CEILING / WALL
(SEE DETAILS, ARCHITECTURAL PLANS AND SPECIFICATIONS)

XX DENOTES THE FOLLOWING
- (AA) AUTODOOR ACTUATOR (PUSH PLATE)
- (AM) AUTODOOR ACTUATOR (MOTION SENSOR)
- (AO) AUTODOOR OPERATOR
- (ED) ELECTRICAL EXITING DEVICE
- (DE) DELAYED EGRESS MODULE
- (EL) ELECTROMAGNETIC LOCK
- (ES) ELECTRICAL STRIKE
- (KS) KEY SWITCH
- (PS) POWER SUPPLY
- (PT) POWER TRANSFER HINGE
- (RL) RELAY MODULE
- (RM) SEPARATELY MOUNTED REQUEST TO EXIT MOTION SENSOR NOT ASSOCIATED WITH SECURITY SYSTEM

S XX S XX — SECURITY, ACCESS CONTROL AND DOOR MOUNTING - CEILING / WALL

XX DENOTES THE FOLLOWING
- (BIO) BIOMETRIC READER
- (CR) CARD READER
- (DB) DURESS - PUSHBUTTON
- (DC) DOOR CONTACT
- (DP) DOOR POSITION INDICATOR SWITCH
- (DR) DOOR RELEASE - PUSHBUTTON
- (EL) ELECTROMAGNETIC LOCK
- (ES) ELECTRIC STRIKE
- (GB) GLASS BREAK DETECTOR
- (KE) KEYLESS ENTRY
- (KP) KEYPAD - SECURITY SYSTEM
- (KS) KEEPER SWITCH
- (MD) MOTION SENSOR - DUAL TECHNOLOGY
- (MI) MOTION SENSOR - INFRARED
- (MU) MOTION SENSOR - ULTRASONIC
- (PB) PANIC BUTTON
- (RM) REQUEST FOR EXIT - MOTION
- (RP) REQUEST FOR EXIT - PUSH BUTTON

I XX I XX — INTERCOM SYSTEM - CEILING / WALL

XX DENOTES THE FOLLOWING
- (MD) MASTER STATION - DESK MOUNTED
- (MW) MASTER STATION - WALL MOUNTED
- (SD) SATELLITE STATION - DESK MOUNTED
- (SW) SATELLITE STATION - WALL MOUNTED

S CXXX S CXXX — SECURITY CAMERA - CEILING / WALL

CXXX DENOTES CAMERA NUMBER (SEE SCHEDULE)

SYSTEMS:

P XX/XX P XX/XX — PAGING AND SOUND SYSTEM - CEILING / WALL

XX DENOTES THE FOLLOWING
- (DP) COMBINATION HOUSE PAGING & WIRED RADIO
- (DP) DEPARTMENTAL PAGING
- (HM) HOSPITAL MUSIC
- (HP) HOUSE PAGING
- (LM) LOCAL MUSIC
- (PM) PROCEDURE ROOM - MUSIC SYSTEM
- (PT) PROCEDURE ROOM - TWO WAY COMMUNICATION
- (SM) SOUND MASKING
- (TS) TELEVISION SOUND REINFORCEMENT SYSTEM WIRED
- (WR) RADIO

XX DENOTES THE FOLLOWING
- (CR) CEILING MOUNTED RECESSED SPEAKER
- (CS) CEILING MOUNTED SURFACE SPEAKER
- (FS) FOOT SWITCH
- (MC) MICROPHONE JACK - CEILING MOUNTED
- (MD) MICROPHONE JACK - DESK MOUNTED
- (MF) MICROPHONE JACK - FLOOR MOUNTED
- (MW) MICROPHONE JACK - WALL MOUNTED
- (RE) RE - ENTRANT TYPE HORN
- (VC) VOLUME CONTROL
- (VS) VOLUME CONTROL WITH 6 POSITION STATION SELECTOR
- (WR) WALL MOUNTED RECESSED SPEAKER
- (WS) WALL MOUNTED SURFACE SPEAKER

C XX C XX — CLOCK SYSTEM - CEILING / WALL

XX DENOTES THE FOLLOWING
- (A1) ANALOG TYPE, 12" DIAMETER ROUND, SINGLE FACED
- (A2) ANALOG TYPE, 9" DIAMETER ROUND, SINGLE FACED
- (A3) ANALOG TYPE, 12" DIAMETER ROUND, DOUBLE FACED
- (A4) ANALOG TYPE, 9" DIAMETER ROUND, DOUBLE FACED
- (D1) DIGITAL TYPE, SINGLE FACED (HR:MIN:SEC)
- (D2) DIGITAL TYPE, SINGLE FACED (HR:MIN)
- (EC) ELAPSED TIME CONTROLLER
- (ET) ELAPSED TIMER
- (IP) IP CLOCK
- (RT) RECEIVER
- (TC) TIME CLOCK
- (WR) WIRELESS IP CLOCK

R XX R XX — AREA OF RESCUE STATION - CEILING / WALL
WALL MOUNTED 44" AFF UNLESS NOTED OTHERWISE.

XX DENOTES THE FOLLOWING
- (MS) MASTER STATION
- (SA) SATELLITE ASSISTANCE STATION
- (FM) FLUSH MOUNT
- (SM) SURFACE MOUNT

NOTIFICATION DEVICES:

C — BELL - CHIME

SS — BELL - SINGLE STROBE

GS — BELL - SINGLE STROBE GONG / STROBE

T — BELL - TROUBLE

V — BELL - VIBRATING

VS — BELL - VIBRATING/STROBE

CD W — COMBINATION HORN-STROBE - CEILING / WALL MOUNTED

GONG

RTS — REMOTE ALARM INDICATING AND TEST SWITCH

ROTATING BEACON - CEILING / WALL MOUNTED

S — SPEAKER - CEILING / WALL MOUNTED

CD W — STROBE - CEILING / WALL MOUNTED

CD W — COMBINATION SPEAKER-STROBE - CEILING / WALL MOUNTED

GONG - WATER MOTOR

AIM — MODULE - ADDRESSABLE INPUT

AIO 2 — MODULE - ADDRESSABLE INPUT / OUTPUT

AOM — MODULE - ADDRESSABLE OUTPUT

R — MODULE - NON-ADDRESSABLE OUTPUT RELAY

DETECTORS:

SS — COMBINED SMOKE-GAS DETECTOR - CEILING MOUNTED

COMBINED SMOKE-HEAT DETECTOR - CEILING MOUNTED

S — DUCT SMOKE DETECTOR - RECTANGULAR/SQUARE

X XX — FLAME DETECTOR - CEILING MOUNTED

XX DENOTES THE FOLLOWING
- (IR) INFRARED
- (UV) ULTRAVIOLET
- (UV/IR) COMBINED ULTRAVIOLET AND INFRARED
- (VR) VISIBLE RADIATION

X DENOTES THE FOLLOWING
- (W) WALL MOUNTED

XX — GAS DETECTOR

XX DENOTES THE FOLLOWING
- (CO) CARBON MONOXIDE

X XX — HEAT DETECTOR - CEILING MOUNTED

XX DENOTES THE FOLLOWING
- (F) FIXED TEMPERATURE
- (R) RATE OF RISE
- (R/C) RATE COMPENSATION
- (R/F) COMBINED RISE AND FIXED TEMPERATURE

X DENOTES THE FOLLOWING
- (W) WALL MOUNTED

X — HEAT DETECTOR - CEILING MOUNTED
LINEAR TYPE HEAT SENSITIVE CABLE

X DENOTES THE FOLLOWING
- (W) WALL MOUNTED

X XXX — SMOKE DETECTOR

XXX DENOTES THE FOLLOWING
- (ASD) AIR SAMPLING
- (BR) BEAM RECEIVER
- (BT) BEAM TRANSMITTER
- (I) IONIZATION
- (P) PHOTOELECTRIC
- (SS) SINGLE STATION

X DENOTES THE FOLLOWING:
- (W) WALL MOUNTED

WF — FLOW SWITCH

VS — TAMPER SWITCH

RT — TEST SWITCH FOR DUCT DETECTOR

FO — FOAM MANUAL PULL STATION

P — MANUAL PULL STATION

AUTOMATIC AND SUPERVISORY DETECTOR

PS — WATER PRESSURE SWITCH

GENERAL:

— REFERENCE NOTE SYMBOL

DETAIL NUMBER / SHEET NUMBER — BUILDING SECTION

DETAIL NUMBER / SHEET NUMBER — BUILDING ELEVATION

DETAIL NUMBER / SHEET NUMBER — CALLOUT BOUNDARY

DETAIL NUMBER / SHEET NUMBER — VIEW REFERENCE CALLOUT

+X' - X" — MOUNTING HEIGHT DESIGNATION

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CERTIFICATION

STATE OF OHIO
PAUL R. SPRONG
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REGISTERED
PROFESSIONAL ENGINEER

REVISIONS

#	DATE	DESCRIPTION
1	01/09/2026	80% PROGRESS SET
2	01/30/2026	PERMIT ISSUE

PROJECT #: 6568

DRAWN: Author **CHECKED:** Checker

ELECTRICAL AND FIRE ALARM LEGEND

E000

LUMINAIRE SCHEDULE

TYPE	DESCRIPTION	MOUNTING	LAMP / LIGHT SOURCE: LAMP QTY	TYPE	LUMENS	CRI	CCT	INPUT WATTS	DIMMING	VOLTAGE	MANUFACTURER	CATALOG NUMBER	SPECIFIC NOTES
A	2X4 TROFFER	RECESSED	1	LED	3900	>80	4000K	30	0-10	277	ARCHIPELAGO	LBLP24-33MXP2	
A1	2X2 TROFFER	RECESSED	1	LED	3900	>80	4000K	30	0-10	277	ARCHIPELAGO	LBLP22-33MXP2	
A2	2X2 TROFFER	RECESSED	1	LED	2600	>80	4000K	20	0-10	277	ARCHIPELAGO	LBLP22-33MXP2	
A3	2X2 TROFFER	RECESSED	1	LED	2600	>80	4000K	20	0-10	277	ARCHIPELAGO	LBLP22-33MXP2	
B	RECESSED DOWNLIGHT	RECESSED	1	LED	650	>90	4000K	6	0-10	277	ENVISION LED	LED-CMDEX-6-3M24-5CCT-CUNV	
B2	RECESSED DOWNLIGHT	RECESSED	1	LED	900	>90	4000K	6	0-10	277	ENVISION LED	LED-CMDEX-6-3M24-5CCT-CUNV	
C	LINEAR	SUSPEND	1	LED	3900	>90	4000K	30	0-10	277	ENVISION LED	LED-ELIN-4FT-3P50-5CCT-WH	
D	STRIP LIGHT	SURFACE	1	LED	6500	>80	4000K	50	0-10	277	ENVISION LED	LED-RST-8FT-3M60W-4CCT	
D2	VAPOR TIGHT STRIP LIGHT	SURFACE	1	LED	7500	>80	4000K	50	0-10	277	ENVISION LED	LED-VPT-4FT-3P50-5CCT-UNV	
E	DECORATIVE FIXTURE	SUSPEND	1	LED	-	-	4000K	85	0-10	277	techoLED	TECHOLED-FLX-6©-40-S24-S-PA-DM	
F1	COVE LTG	RECESSED	1	LED	770/FT	90	4000K	7.7/FT	0-10	277	techoLED	TECHOLED-BX-2R-D-C-ME-40-U-X-R-DM-X-X	
H	WALL PACK	SURFACE	1	LED	6960	>80	4000K	48	0-10	277	ENVISION LED	LED-WPFC-5P80-TRI-BZ-PC	
J	DECORATIVE EXTERIOR SCONCE	SURFACE	1	LED	900	90	4000K	7	0-10	277	STUDIO M	SM866422BK	
X1	EXIT SIGN	UNV	1	LED	-	-	-	-	-	277	MULE LIGHTING, INC.	UX-B-W	

GENERAL NOTES:

BOF = BOTTOM OF FIXTURE, RFD = RECESSED FIXTURE DEPTH, OFD = OVERALL FIXTURE DEPTH, OFH = OVERALL FIXTURE HEIGHT, TOP = TOP OF POLE, AFF = ABOVE FINISHED FLOOR
F=FORWARD PHASE, R=REVERSE PHASE/ELV, 0-10=1-10V, 3=3 WIRE, DALI = DALI, DMX=DMX512, STEP=STEP DIMMING, ND=NON DIM, NA=NON APPLICABLE

A. THE LUMINAIRE SCHEDULE CAN NOT BE USED INDEPENDENTLY OF THE DRAWINGS AND SPECIFICATIONS TO OBTAIN LUMINAIRE COSTS. THE INDIVIDUAL ESTABLISHING LUMINAIRE COSTS SHALL NOT QUOTE PRICING WITHOUT FIRST SEEING APPLICABLE ELECTRICAL DRAWINGS AND ELECTRICAL DIVISION SPECIFICATIONS. THE CONTRACTOR IS REPONSIBLE FOR PROVIDING NECESSARY DRAWINGS AND SPECIFICATIONS TO THE INDIVIDUAL QUOTING LUMINAIRE PRICING.
B. ALL FINISHES TO BE REVIEWED AND VERIFIED BY ARCHITECT PRIOR TO PURCHASE.
C. PROVIDE ALL PARTS, PIECES, AND COMPONENTS NECESSARY FOR A COMPLETE AND FUNCTIONAL SYSTEM. ELECTRICAL CONTRACTOR TO CONFIRM ALL MOUNTING ACCESSORIES PRIOR TO ORDER.
D. CONFIRM DIMMING PROTOCOL WITH FINAL CONTROLS SPECIFICATIONS AND SHOP DRAWINGS. ELECTRICAL CONTRACTOR TO VERIFY PRIOR TO ORDER.
E. DECORATIVE WATTAGE AND DIMMING TYPE TO BE CONFIRMED WITH FINAL INTERIOR DESIGN DECORATIVE LIGHTING SPECIFICATIONS PRIOR TO RELEASE OF ORDER, AND WIRING TO BE PULLED ACCORDINGLY.
F. ELECTRICAL CONTRACTOR TO COORDINATE ALL ACCESS PANELS, DRIVER LOCATIONS, AND TRANSFORMER LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION.
G. ELECTRICAL CONTRACTOR TO CONFIRM FIXTURE COMPATIBLITY WITH CEILING TYPE AND CEILING THICKNESS PRIOR TO FINAL FIXTURE ORDER.
H. FOR ALL LINEAR FIXTURES, ELECTRICAL CONTRACTOR TO VERIFY EXACT FIXTURE LENGTHS PER FIELD MEASUREMENTS OR MILLWORK SHOP DRAWINGS, AS APPLICABLE.
I. ELECTRICAL CONTRACTOR TO VERIFY FEED AND LENGTH OF LEAD WIRES REQUIRED AND REVISE AS NECESSARY.
J. PROVIDE EXIT SIGN MOUNTING, FACES AND CHEVRONS PER PLANS.
K. FOR ALL DECORATIVE LIGHTING, REFER TO ARCHITECT DOCUMENTATION FOR FIXTURE MOUNTING HEIGHT.
L. CONTRACTOR SHALL PROVIDE HEAVY DUTY JUNCTION BOXES, RATED FOR 50 LBS OR GREATER, FOR ALL DECORATIVE PENDANTS.
M. SEE PLANS FOR AIMING INTENT FOR ADJUSTABLE LIGHTS AND WALLWASHERS. PRELIMINARILY AIM LIGHTS AS INDICATED VIA DIRECTIONAL ARROW ON LIGHTING PLANS. I.E. AT ARTWORK AND OR TABLES IN FIELD, PRIOR TO FINAL

SPECIFIC NOTES:

TRANSFORMER SCHEDULE

SIZE (KVA)	PRIMARY (480V, 3Ø, 3W): FLA	OCPD	FEEDER	SECONDARY (208V, 3Ø, 4W): FLA	OCPD	FEEDER: COPPER	FEEDER: ALUMINUM	GROUNDING ELECTRODE CONDUCTOR	DIMENSIONS (IN.): HEIGHT	WIDTH	DEPTH	HEAT LOSS (W)	WEIGHT (LBS.)
45	54	70A3P	70(3WG)	125	175A3P	(4#2/0 & 1#4 G) 2"C	(4#4/0 & 1#2 G) 2-1/2"C	1-#4	35.32	25.5	21	1332	495
75	90	125A3P	125(3WG)	208	300A3P	(4-350 KCMIL & 1#2 G) 2-1/2"C	(4-500 KCMIL & 1#1/0 G) 3"C	1-#2	42	30.06	22.75	2354	755

GENERAL NOTES:
A. PRIMARY OVERCURRENT PROTECTION PER N.E.C. TABLE 450.3(B)
B. SECONDARY OVERCURRENT PROTECTION PER N.E.C. TABLE 450.3(B)
C. BONDING AND GROUNDING CONDUCTOR PER N.E.C. TABLE 250.66
D. GROUNDING ELECTRODE CONDUCTORS ARE SIZED BASED ON COPPER CONDUCTORS
E. SEE PLANS FOR INCREASED CONDUCTOR SIZES DUE TO VOLTAGE DROP
F. CONDUIT SIZES ARE BASED ON NEC TABLE 4 (EMT) AND TABLE 5 (THHN INSULATION
G. DIMENSIONS AND WEIGHT FOR 15KVA TRANSFORMERS AND LARGER ARE BASED ON SQUARE D 2016 DOE ENERGY EFFICIENT TYPE, 150 DEGREE C RISE, WITH COPPER WINDINGS

SERVICE WIRING SCHEDULE

AMPS	COPPER (4W) 3Ø, 4 WIRE	GROUNDING ELECTRODE SYSTEM: GEC M.F.	BONDING JUMPERS: W.P.	C.E.C.	G.RING	G. ROD	ALUMINUM (3W) 1Ø, 3 WIRE	(4W) 3Ø, 4 WIRE	GROUNDING ELECTRODE CONDUCTOR: GEC M.F.	BONDING JUMPERS: W.P.	C.E.C.	G.RING	G. ROD
600	2[(4-350 KCMIL) 3"C]	#2/0 CU	#2/0 CU	#4 CU	#2 CU	#6 CU	2[(3-500 KCMIL) 3"C]	2[(4-500 KCMIL) 3 1/2"C]	#2/0 CU	#2/0 CU	#4 CU	#2 CU	#6 CU

CONDUIT SIZES ARE BASED ON NEC TABLE 4 (RNC SCHEDULE 80) AND TABLE 5 (THHN INSULATION).
ABBREVIATIONS: M.F. - METAL FRAME OR STRUCTURE; W.P. - WATER PIPE; C.E.C. - CONCRETE ENCASED ELECTRODE; G.RING. - GROUND RING; G.ROD - GROUND ROD, PIPE OR PLATE ELECTRODE
REFER TO GROUNDING ELECTRODE CONDUCTOR (GEC) DETAIL DRAWING. IF A DIFFERENT CONFIGURATION IS USED, THE CONTRACTOR IS RESPONSIBLE FOR SIZING THE GEC AND BONDING JUMPERS PER NEC 250.66.

WIRING SCHEDULE - ALUMINUM

AMPS	(2WG) 1Ø, 2 WIRE, GROUND	(3WG) 1Ø, 3 WIRE, GROUND OR 3Ø, 3 WIRE, GROUND	(4WG) 3Ø, 4 WIRE, GROUND
60	(2#4 & 1#8 G) 3/4"C	(3#4 & 1#8 G) 1"C	(4#4 & 1#8 G) 1 1/4"C
70	(2#3 & 1#6 G) 1"C	(3#3 & 1#6 G) 1 1/4"C	(4#3 & 1#6 G) 1 1/4"C
80	(2#2 & 1#6 G) 1"C	(3#2 & 1#6 G) 1 1/4"C	(4#2 & 1#6 G) 1 1/4"C
90	(2#2 & 1#6 G) 1"C	(3#2 & 1#6 G) 1 1/4"C	(4#2 & 1#6 G) 1 1/4"C
100	(2#1 & 1#6 G) 1 1/4"C	(3#1 & 1#6 G) 1 1/4"C	(4#1 & 1#6 G) 1 1/2"C
125	(2#2/0 & 1#4 G) 1 1/4"C	(3#2/0 & 1#4 G) 1 1/2"C	(4#2/0 & 1#4 G) 2"C
150	(2#3/0 & 1#4 G) 1 1/2"C	(3#3/0 & 1#4 G) 2"C	(4#3/0 & 1#4 G) 2"C
175	(2#4/0 & 1#4 G) 1 1/2"C	(3#4/0 & 1#4 G) 2"C	(4#4/0 & 1#4 G) 2 1/2"C
200	(2-250 KCMIL & 1#4 G) 2"C	(3-250 KCMIL & 1#4 G) 2"C	(4-250 KCMIL & 1#4 G) 2 1/2"C
225	(2-300 KCMIL & 1#2 G) 2"C	(3-300 KCMIL & 1#2 G) 2 1/2"C	(4-300 KCMIL & 1#2 G) 2 1/2"C

CONDUCTOR SIZES ARE BASED ON 75° TERMINATIONS, NEC TABLE 310.12(B)(16).
CONDUIT SIZES ARE BASED ON NEC TABLE 4 (EMT) AND TABLE 5 (THHN INSULATION).

WIRING SCHEDULE - COPPER

AMPS	(2WG) 1Ø, 2 WIRE, GROUND	(3WG) 1Ø, 3 WIRE, GROUND OR 3Ø, 3 WIRE, GROUND	(4WG) 3Ø, 4 WIRE, GROUND
20	(2#12 & 1#12 G) 3/4"C	(3#12 & 1#12 G) 3/4"C	(4#12 & 1#12 G) 3/4"C
30	(2#10 & 1#10 G) 3/4"C	(3#10 & 1#10 G) 3/4"C	(4#10 & 1#10 G) 3/4"C
40	(2#8 & 1#10 G) 3/4"C	(3#8 & 1#10 G) 3/4"C	(4#8 & 1#10 G) 3/4"C
50	(2#6 & 1#10 G) 3/4"C	(3#6 & 1#10 G) 3/4"C	(4#6 & 1#10 G) 1"C
60	(2#4 & 1#10 G) 3/4"C	(3#4 & 1#10 G) 1"C	(4#4 & 1#10 G) 1 1/4"C
70	(2#4 & 1#8 G) 3/4"C	(3#4 & 1#8 G) 1"C	(4#4 & 1#8 G) 1 1/4"C
80	(2#3 & 1#8 G) 1"C	(3#3 & 1#8 G) 1 1/4"C	(4#3 & 1#8 G) 1 1/4"C
90	(2#2 & 1#8 G) 1"C	(3#2 & 1#8 G) 1 1/4"C	(4#2 & 1#8 G) 1 1/4"C
100	(2#1 & 1#8 G) 1 1/4"C	(3#1 & 1#8 G) 1 1/4"C	(4#1 & 1#8 G) 1 1/2"C
110	(2#2 & 1#6 G) 1"C	(3#2 & 1#6 G) 1 1/4"C	(4#2 & 1#6 G) 1 1/4"C
125	(2#1 & 1#6 G) 1 1/4"C	(3#1 & 1#6 G) 1 1/2"C	(4#1 & 1#6 G) 1 1/2"C
150	(2#1/0 & 1#6 G) 1 1/4"C	(3#1/0 & 1#6 G) 1 1/2"C	(4#1/0 & 1#6 G) 1 1/2"C
175	(2#2/0 & 1#6 G) 1 1/4"C	(3#2/0 & 1#6 G) 1 1/2"C	(4#2/0 & 1#6 G) 2"C
200	(2#3/0 & 1#6 G) 1 1/4"C	(3#3/0 & 1#6 G) 2"C	(4#3/0 & 1#6 G) 2"C
225	(2#4/0 & 1#4 G) 1 1/2"C	(3#4/0 & 1#4 G) 2"C	(4#4/0 & 1#4 G) 2 1/2"C

CONDUCTOR SIZES ARE BASED ON 60° TERMINATIONS LESS THAN OR EQUAL TO 100A, AND 75° TERMINATIONS GREATER THAN 100A, NEC TABLE 310.12(B)(16).
CONDUIT SIZES ARE BASED ON NEC TABLE 4 (EMT) AND TABLE 5 (THHN INSULATION).

SHORT CIRCUIT / VOLTAGE DROP CALCULATION SUMMARY

POINT	TAG	VOLTAGE / PHASE	LENGTH (FT)	COPPER / ALUMINUM	CONDUIT	WIRE SIZE	# OF SETS	FEEDER VOLTAGE DROP (%)	TOTAL VOLTAGE DROP (%)	Isc AVAILABLE UPSTREAM	Isc (FAULT)
F1	UTILITY	480V, 3Ø	1	C	N	350	2	0.0%	0.0%	30,106	30,034
F2	MAIN DISC	480V, 3Ø	85	C	N	350	2	0.4%	0.4%	30,034	24,975
F3	MSB	480V, 3Ø	5	C	N	350	2	0.0%	0.4%	24,975	24,730

** PER THE UTILITY, THE MAXIMUM AVAILABLE (SYMMETRICAL) FAULT AT THE SECONDARY SIDE OF THE SERVICE TRANSFORMER IS 30,106 AMPS, ASSUMING A 500 KVA TRANSFORMER. SHORT CIRCUIT CALCULATIONS ARE FURNISHED FOR ALL FAULT LEVELS ABOVE 10,000 AMPS @ 208 VOLT (14,000 AT 480 VOLT). ANY FAULT CURRENT BELOW THIS LEVEL IS CONSIDERED SAFE FOR THE ELECTRICAL SYSTEM TO CLEAR OR EQUIPMENT IS BUILT TO WITHSTAND THIS LEVEL OF FAULT SAFELY.

GENERAL NOTES - SINGLE LINE DIAGRAM

A. ALL BREAKERS SHALL BE RATED TO WITHSTAND THE AVAILABLE FAULT CURRENT AT THEIR LOCATION. WHERE SERIES- RATED COMBINATIONS ARE USED IN ACCORDANCE WITH NEC 240.86 (B) AND (C) THE CONTRACTOR AND/OR HIS EQUIPMENT SUPPLIER MUST PROVIDE APPROPRIATE DOCUMENTATION AND LABELING.

B. WHERE BREAKERS WITH ADJUSTABLE SETTINGS ARE FURNISHED TO THE PROJECT. THE MANUFACTURER'S REP SHALL IDENTIFY AND PROVIDE THE APPROPRIATE SETTINGS TO THE ELECTRICAL CONTRACTOR FOR HIS USE IN INSTALLATION.

C. PANEL SCHEDULES INDICATE BREAKER SIZE ONLY. PROVIDE AFCI/GFCI PROTECTION AS REQUIRED BY NEC. COORDINATE FINAL BREAKER SIZES/TYPES FOR ITEMS FURNISHED BY OTHERS WITH SHOP DRAWINGS OR PRODUCT INFORMATION FOR ACTUAL EQUIPMENT BEING CONNECTED

D. ELECTRICAL CONTRACTOR SHALL NOT ORDER OR PURCHASE ANY MATERIALS OR EQUIPMENT UNTIL PERMIT DRAWINGS HAVE BEEN APPROVED BY AHJ.

E. PROVIDE SELECTIVE COORDINATION FOR EMERGENCY SYSTEM OVERCURRENT PROTECTION DEVICES IN ACCORDANCE WITH NEC 700.27.

F. PROVIDE GROUND-FAULT PROTECTION FOR EQUIPMENT IN ACCORDANCE WITH NEC 240.13 AND NEC 230.95.

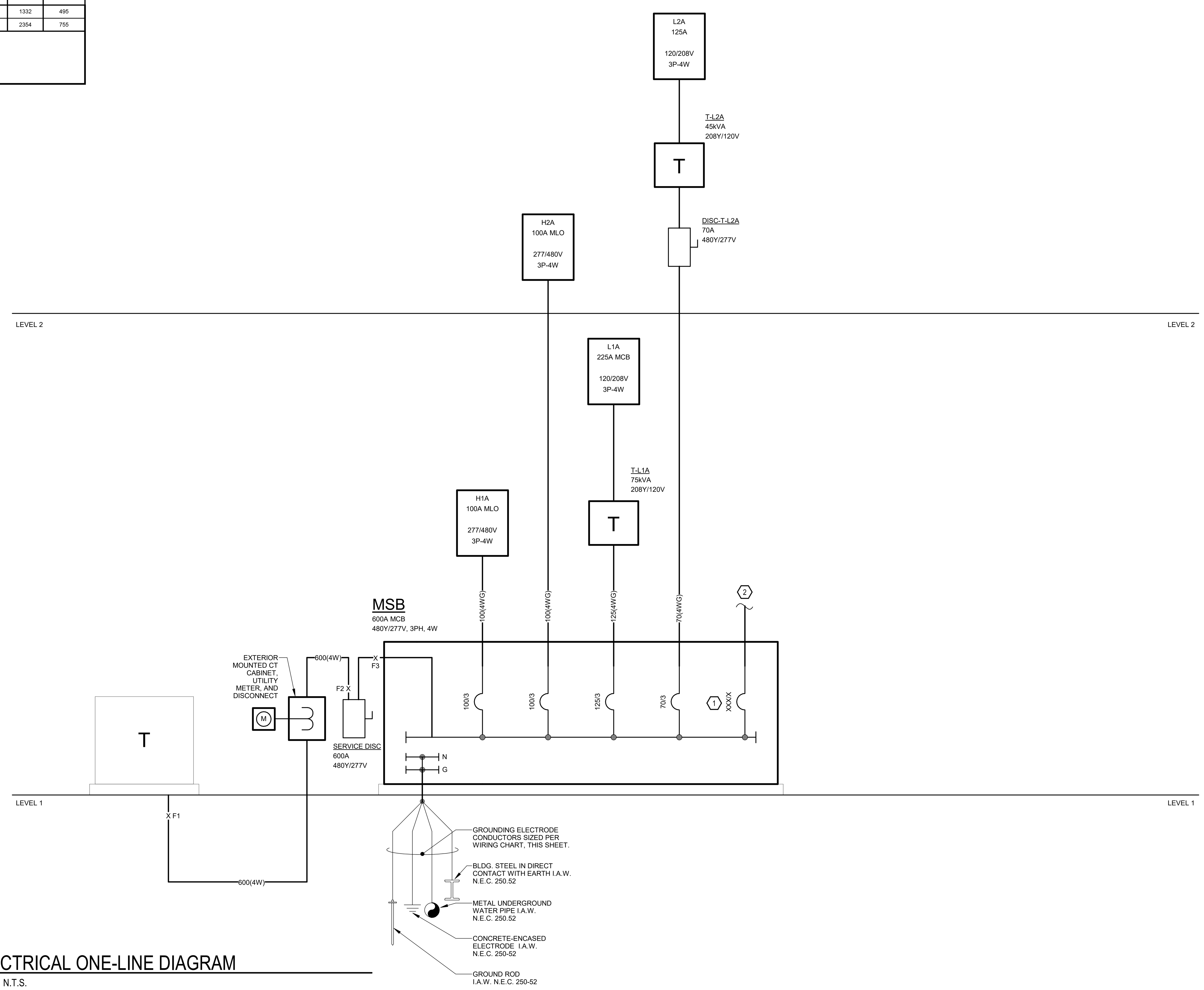
G. OVERCURRENT PROTECTION DEVICES SUPPLYING TRANSFORMERS WHICH ARE NOT LOCATED WITHIN SIGHT OF THEIR OVERCURRENT PROTECTION SHALL BE LOCKABLE AND THE TRANSFORMER SHALL BE FIELD MARKED WITH THE LOCATION OF THE OVERCURRENT PROTECTION DEVICE.

H. CONTRACTOR TO PROVIDE GROUNDING AND BONDING AS REQUIRED FOR ELECTRICAL SYSTEMS. GROUNDING AND BONDING IS CONSIDERED MEANS AND METHODS OF CONSTRUCTION, AND SHOULD BE COMPLETED BY THE ELECTRICAL CONTRACTOR IN ACCORDANCE WITH NEC 250. GAS PIPING SYSTEMS MUST BE BONDED PER UTILITY PROVIDER'S INSTALLATION GUIDELINES WHERE REQUIRED.

I. PROVIDE SURGE PROTECTION IN ACCORDANCE WITH NEC 230.67

Keynote Legend

Key Value	Keynote Text
1	PROVIDE SPACE AND PROVISIONS IN MAIN SWITCHBOARD FOR CONNECTION TO FUTURE PV SOLAR SYSTEM. COORDINATE EXACT CONNECTION REQUIREMENTS AND BACK FEED BREAKER SIZING WITH APPROVED PV DESIGN DRAWINGS AND UTILITY PROVIDER PRIOR TO BEGINNING OF CONSTRUCTION.
2	PROVIDE PATHWAY FROM MAIN ELECTRICAL ROOM UP TO ROOF FOR (4) 2" CONDUITS FOR FUTURE PV SOLAR SYSTEM.



1 E001 ELECTRICAL ONE-LINE DIAGRAM
SCALE: N.T.S.

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SANTA MARIA COMMUNITY SERVICES

1048 CONSIDINE AVE.
CINCINNATI, OHIO 45205

CERTIFICATION

STATE OF OHIO
PAUL R SPRONG
PE 74471
REGISTERED
PROFESSIONAL ENGINEER

REVISIONS

#	DATE	DESCRIPTION
1	01/09/2026	80% PROGRESS SET
2	01/30/2026	PERMIT ISSUE

PROJECT #: 6568
DRAWN: Author **CHECKED:** Checker

ONELINE POWER DIAGRAM

E001

Branch Panel: L2A

Location: ELEC. 260
Supply From: T-L2A
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: TBD
Mains Type: MCB
Bus Amps: 125 A
MCB Rating: 125 A

CB Info	CKT	Circuit Description	Amps	Trip	Poles	A		B		C		Poles	Trip	Amps	Circuit Description	CKT	CB Info
	1	BREAK RCPT	9 A	20 A	1	1080 VA	180 VA					1	20 A	2 A	PRINTER	2	
	3	BREAK COUNT RCPT	6 A	20 A	1			720 VA	180 VA			1	20 A	2 A	PRINTER	4	
	5	CORR/EARLY CHILD RCPT	12 A	20 A	1					1440 VA	1260 VA	1	20 A	11 A	CORR/STOR RCPT	6	
	7	MEETING RCPT	11 A	20 A	1	1260 VA	180 VA					1	20 A	2 A	BREAK DW	8	
	9	MEETING RCPT	14 A	20 A	1			1620 VA	180 VA			1	20 A	2 A	BREAK REF	10	
	11	EARLY CHILD RCPT	12 A	20 A	1					1440 VA	1144 VA	2	20 A	11 A	CU-1	12	
	13	EARLY CHILD RCPT	5 A	20 A	1	540 VA	1144 VA									14	
	15	EARLY CHILD RCPT	12 A	20 A	1			1440 VA	720 VA			1	20 A	6 A	DECK RCPT	16	
	17	YOUTH EQUIV RCPT	12 A	20 A	1					1440 VA	2600 VA	2	40 A	25 A	HP-2	18	
	19	YOUTH EQUIV RCPT	14 A	20 A	1	1620 VA	2600 VA									20	
	21	YOUTH EQUIV RCPT	14 A	20 A	1			1620 VA	1080 VA			1	20 A	9 A	ROOF RCPT	22	
	23	YOUTH EQUIV RCPT	14 A	20 A	1					1620 VA	1080 VA	1	20 A	9 A	FINANCE RCPT	24	
	25	YOUTH EQUIV/MTG RCPT	15 A	20 A	1	1800 VA	720 VA					1	20 A	6 A	CFO RCPT	26	
	27	STORAGE/HOTEL RCPT	12 A	20 A	1			1440 VA	720 VA			1	20 A	6 A	CPO RCPT	28	
	29	HOTEL/LAC RCPT	11 A	20 A	1					1260 VA	720 VA	1	20 A	6 A	CEO RCPT	30	
	31	RESTROOM/JAN RCPT	11 A	20 A	1	1260 VA	1620 VA					1	20 A	14 A	GED COMP LAB RCPT	32	
	33	STOR/COPY/CORR RCPT	8 A	20 A	1			900 VA	1080 VA			1	20 A	9 A	GED COMP LAB RCPT	34	
	35	PRINTER	2 A	20 A	1					180 VA	720 VA	1	20 A	6 A	CDO RCPT	36	
	37	PRINTER	2 A	20 A	1	180 VA	1620 VA					1	20 A	14 A	DEV TEAM RCPT	38	
	39	GED CLASS RCPT	12 A	20 A	1			1440 VA	1440 VA			1	20 A	12 A	HR/FINANCE RCPT	40	
	41	GED CLASS RCPT	12 A	20 A	1					1440 VA	0 VA	1	20 A	--	SPARE	42	
	43	SPARE	--	20 A	1	0 VA	0 VA					1	20 A	--	SPARE	44	
	45	SPARE	--	20 A	1			0 VA	0 VA			1	20 A	--	SPARE	46	
	47	SPARE	--	20 A	1					0 VA	--	1	--	--	SPACE	48	
	49	SPACE	--	--	1	--	--					1	--	--	SPACE	50	
	51	SPACE	--	--	1			--	--			1	--	--	SPACE	52	
	53	SPACE	--	--	1					--	--	1	--	--	SPACE	54	
	55	SPACE	--	--	1	--	--					1	--	--	SPACE	56	
	57	SPACE	--	--	1			--	--			1	--	--	SPACE	58	
	59	SPACE	--	--	1					--	--	1	--	--	SPACE	60	
						Total Load:	15804 VA	14580 VA		16344 VA							
						Total Amps:	133 A	122 A		138 A							

CIRCUIT BREAKER INFORMATION LEGEND:
G = GROUND FAULT SENSING
S = SHUNT TRIP
L = LOCK OUT
A = ARC FAULT INTERRUPTER

ABBREVIATIONS:
MCB = MAIN CIRCUIT BREAKER
CB = CIRCUIT BREAKER
CKT = CIRCUIT

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	5200 VA	100.00%	5200 VA		
R	39240 VA	62.74%	24620 VA	Total Conn. Load:	46728 VA
M	2288 VA	125.00%	2860 VA	Total Est. Demand:	32680 VA
				Total Conn.:	130 A
				Total Est. Demand:	91 A

Notes:

Branch Panel: H1A

Location: MECH. / ELEC. 117
Supply From: MSB
Mounting: Surface
Enclosure: Type 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating: TBD
Mains Type: MLO
Bus Amps: 125 A

CB Info	CKT	Circuit Description	Amps	Trip	Poles	A		B		C		Poles	Trip	Amps	Circuit Description	CKT	CB Info
	1	LVL 1 LTG	5 A	20 A	1	1500 VA	1529 VA					1	20 A	6 A	LVL 1 LTG	2	
	3	INV	6 A	20 A	1			1773 VA	627 VA			1	20 A	2 A	LVL 1 LTG	4	
	5	LVL 1 LTG	2 A	20 A	1					531 VA	4000 VA					6	
	7	VAV 1A-2	14 A	20 A	1	3989 VA	4000 VA					3	20 A	14 A	VAV 1A-4	8	
	9	VAV 1A-3	5 A	20 A	1			1500 VA	4000 VA							10	
	11	VAV 1A-5	18 A	30 A	1					5000 VA	3000 VA	1	20 A	11 A	VAV 1B-2	12	
	13	VAV 1B-1	7 A	20 A	1	2000 VA	5000 VA					1	30 A	18 A	VAV 1B-3	14	
	15	VAV 1B-5	14 A	20 A	1			4000 VA	5000 VA			1	30 A	18 A	VAV 1B-4	16	
	17	L STAIR NO. 1 S11	6 A	20 A	1					1642 VA	500 VA	1	20 A	2 A	SITE LTG	18	
	19					3333 VA	500 VA					1	20 A	2 A	SITE LTG	20	
	21	VAV 1A-1	12 A	20 A	3			3333 VA	--			1	--	--	SPACE	22	
	23									3333 VA	--	1	--	--	SPACE	24	
	25	EXTERIOR LTG	4 A	20 A	1	1176 VA	--					1	--	--	SPACE	26	
	27	FUTURE SIGNAGE	2 A	20 A	1			500 VA	--			1	--	--	SPACE	28	
	29	ELEV PIT LTG	0 A	20 A	1					42 VA	--	1	--	--	SPACE	30	
	31	SPARE	--	20 A	1	0 VA	--					1	--	--	SPACE	32	
	33	SPARE	--	20 A	1			0 VA	--			1	--	--	SPACE	34	
	35	SPARE	--	20 A	1					0 VA	--	1	--	--	SPACE	36	
	37	SPARE	--	20 A	1	0 VA	--					1	--	--	SPACE	38	
	39	SPARE	--	20 A	1			0 VA	--			1	--	--	SPACE	40	
	41	SPARE	--	20 A	1					0 VA	--	1	--	--	SPACE	42	
						Total Load:	23028 VA	20733 VA		17974 VA							
						Total Amps:	85 A	76 A		65 A							

CIRCUIT BREAKER INFORMATION LEGEND:
G = GROUND FAULT SENSING
S = SHUNT TRIP
L = LOCK OUT
A = ARC FAULT INTERRUPTER

ABBREVIATIONS:
MLO = MAIN LUGS ONLY
CB = CIRCUIT BREAKER
CKT = CIRCUIT

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
L	10251 VA	125.00%	12813 VA		
E	51489 VA	100.00%	51489 VA	Total Conn. Load:	61729 VA
				Total Est. Demand:	64290 VA
				Total Conn.:	74 A
				Total Est. Demand:	77 A

Notes:

Branch Panel: H2A

Location: ELEC. 260
Supply From: MSB
Mounting: Surface
Enclosure: Type 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating: TBD
Mains Type: MLO
Bus Amps: 125 A

CB Info	CKT	Circuit Description	Amps	Trip	Poles	A		B		C		Poles	Trip	Amps	Circuit Description	CKT	CB Info
	1	LVL 2 LTG	5 A	20 A	1	1460 VA	2058 VA					1	20 A	7 A	LVL 2 LTG	2	
	3	LVL 2 LTG	1 A	20 A	1			392 VA	5000 VA			1	30 A	18 A	VAV 2B-1	4	
	5	LVL 2 LTG	1 A	20 A	1					140 VA	5000 VA	1	30 A	18 A	VAV 2B-2	6	
	7	VAV 2A-1	18 A	30 A	1	5000 VA	3000 VA					1	20 A	11 A	VAV 2B-3	8	
	9	VAV 2A-2	11 A	20 A	1			3000 VA	3000 VA			1	20 A	11 A	VAV 2B-4	10	
	11	VAV 2A-3	18 A	30 A	1					5000 VA	2000 VA	1	20 A	7 A	VAV 2B-5	12	
	13	VAV 2A-4	11 A	20 A	1	3000 VA	2000 VA					1	20 A	7 A	VAV 2B-6	14	
	15	VAV 2A-5	18 A	30 A	1			5000 VA	1500 VA			1	20 A	5 A	VAV 2B-7	16	
	17	VAV 2A-6	14 A	20 A	1					4000 VA	5000 VA	1	30 A	18 A	VAV 2B-8	18	
	19	VAV 2A-7	11 A	20 A	1	3000 VA	0 VA					1	20 A	--	SPARE	20	
	21	SPARE	--	20 A	1			0 VA	0 VA			1	20 A	--	SPARE	22	
	23	SPARE	--	20 A	1					0 VA	--	1	--	--	SPACE	24	
	25	SPACE	--	--	1	--	--					1	--	--	SPACE	26	
	27	SPACE	--	--	1			--	--			1	--	--	SPACE	28	
	29	SPACE	--	--	1					--	--	1	--	--	SPACE	30	
	31	SPACE	--	--	1	--	--					1	--	--	SPACE	32	
	33	SPACE	--	--	1			--	--			1	--	--	SPACE	34	
	35	SPACE	--	--	1					--	--	1	--	--	SPACE	36	
	37	SPACE	--	--	1	--	--					1	--	--	SPACE	38	
	39	SPACE	--	--	1			--	--			1	--	--	SPACE	40	
	41	SPACE	--	--	1					--	--	1	--	--	SPACE	42	
						Total Load:	19518 VA	17892 VA		21140 VA							
						Total Amps:	71 A	65 A		77 A							

CIRCUIT BREAKER INFORMATION LEGEND:
G = GROUND FAULT SENSING
S = SHUNT TRIP
L = LOCK OUT
A = ARC FAULT INTERRUPTER

ABBREVIATIONS:
MLO = MAIN LUGS ONLY
CB = CIRCUIT BREAKER
CKT = CIRCUIT

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
L	4050 VA	125.00%	5062 VA		
E	54500 VA	100.00%	54500 VA	Total Conn. Load:	58550 VA
				Total Est. Demand:	59562 VA
				Total Conn.:	70 A
				Total Est. Demand:	72 A

Notes:

Branch Panel: L1A

Location: MECH. / ELEC. 117
Supply From: T-L1A
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: TBD
Mains Type: MCB
Bus Amps: 225 A
MCB Rating: 225 A

CB Info	CKT	Circuit Description	Amps	Trip	Poles	A		B		C		Poles	Trip	Amps	Circuit Description	CKT	CB Info
	1	ELEV PIT RCPT	2 A	20 A	1	180 VA	1620 VA					1	20 A	14 A	STABLE FAM RCPT	2	
	3	MTG/FOOD DIST RCPT	15 A	20 A	1			1800 VA	1620 VA			1	20 A	14 A	STABLE FAM RCPT	4	
	5	MTG/FOOD DIST RCPT	11 A	20 A	1					1260 VA	1080 VA	1	20 A	9 A	CORR/CLOSET RCPT	6	
	7	EWC	8 A	20 A	1	1000 VA	1620 VA					1	20 A	14 A	WELLNESS/STORAGE RCPT	8	
	9	CORR/DONATION RCPT	9 A	20 A	1			1080 VA	1440 VA			1	20 A	12 A	IT WORKPLACE RCPT	10	
	11	DONATION C RCPT	5 A	20 A	1					540 VA	1000 VA	1	20 A	8 A	IT RCPT	12	
	13	DONATION FRIDGE	13 A	20 A	1	1500 VA	1620 VA					1	20 A	14 A	RESTROOM RCPT	14	
	15	DONATION FRIDGE	13 A	20 A	1			1500 VA	180 VA			1	20 A	2 A	WASHER	16	
	17	DONATION FREEZER	13 A	20 A	1					1500 VA	2496 VA	2	30 A	24 A	DRYER	18	
	19	CORR/BREAK RCPT	9 A	20 A	1	1080 VA	2496 VA									20	
	21	BREAK RCPT	8 A	20 A	1			900 VA	1440 VA			1	20 A	12 A	CORR/ELEC RCPT	22	
	23	BREAK MW	2 A	20 A	1					180 VA	1920 VA	1	20 A	16 A	LOADING DOCK DOOR	24	
	25	BREAK MW	2 A	20 A	1	180 VA	1600 VA									26	
	27	BREAK DW	2 A	20 A	1			180 VA	1600 VA			3	20 A	13 A	EWH-2	28	
	29	HOTEL/INTAKE RCPT	15 A	20 A	1					1800 VA	1600 VA					30	
	31	FAMILY INTAKE RCPT	14 A	20 A	1	1620 VA	500 VA					1	20 A	4 A	ELEVATOR CAB	32	
	33	MAIL/STABLE FAM/VOL RCPT	15 A	20 A	1			1800 VA	500 VA			1	20 A	4 A	GWH-1	34	
	35	INTAKE/COPY RCPT	11 A	20 A	1					1260 VA	500 VA	1	20 A	4 A	RCP-1	36	
	37	LOBBY DESK	2 A	20 A	1	180 VA	1920 VA					1	20 A	16 A	EXTERIOR HOT BOX	38	
	39	COPIER	13 A	20 A	1			1500 VA	1920 VA			1	20 A	16 A	EXTERIOR HOT BOX	40	
	41	COPIER	13 A	20 A	1					1500 VA	540 VA	1	20 A	5 A	EXT RCPT	42	
	43	EWH-1	7 A	20 A	2	750 VA	180 VA					1	20 A	2 A	IT RCPT	44	
	45							750 VA	180 VA			1	20 A	2 A	BREAK REF	46	
	47	IT RCPT	8 A	20 A	1					1000 VA	180 VA	1	20 A	2 A	FACP	48	
	49	LACTATION RCPT	5 A	20 A	1	540 VA	540 VA					1	20 A	5 A	EXT RCPT	50	
	51	SPARE	--	20 A	1			0 VA	720 VA			1	20 A	6 A	INTERN/VOL RCPT	52	
	53	SPARE	--	20 A	1					0 VA	0 VA	1	20 A	--	SPARE	54	
	55	SPARE	--	20 A	1	0 VA	0 VA					1	20 A	--	SPARE	56	
	57	SPACE	--	--	1			--	0 VA			1	20 A	--	SPARE	58	
	59	SPACE	--	--	1					--	--	1	--	--	SPACE	60	
						Total Load:	19126 VA	19110 VA		18356 VA							
						Total Amps:	160 A	160 A		153 A							

CIRCUIT BREAKER INFORMATION LEGEND:
G = GROUND FAULT SENSING
S = SHUNT TRIP
L = LOCK OUT
A = ARC FAULT INTERRUPTER

ABBREVIATIONS:
MCB = MAIN CIRCUIT BREAKER
CB = CIRCUIT BREAKER
CKT = CIRCUIT

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
R	36500 VA	63.70%	23250 VA		
A	360 VA	100.00%	360 VA	Total Conn. Load:	56592 VA
E	16632 VA	100.00%	16632 VA	Total Est. Demand:	43822 VA
M	3100 VA	115.48%	3580 VA	Total Conn.:	157 A
				Total Est. Demand:	122 A

Notes:

Switchboard: MSB

Location: MECH. / ELEC. 117
Supply From:
Mounting: FLOOR
Enclosure: NEMA 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 42,000
Mains Type: MLO
Mains Rating: 600 A
Main Disc. Rating: 600 A

Notes:

CKT	Circuit Description	# of Poles	Frame Size	Trip Rating	Load	Remarks
1	H1A	3	100 A	100 A	61729 VA	
2	RTU-1A	3	50 A	50 A	33240 VA	
3	RTU-1B	3	40 A	40 A	24930 VA	
4	RTU-2A	3	45 A	45 A	27423 VA	
5	RTU-2B	3	45 A	45 A	27423 VA	
6	T-L1A	3	125 A	125 A	56592 VA	
7	T-L2A	3	70 A	70 A	46728 VA	
8	H2A	3	100 A	100 A	58550 VA	
9	ELEV	3	40 A	40 A	24082 VA	
				Total Conn. Load:	360695 VA	
				Total Amps:	434 A	

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	5200 VA	100.00%	5200 VA		
R	75740 VA	56.60%	42870 VA	Total Conn. Load:	360695 VA
L	14297 VA	125.00%	17871 VA	Total Est. Demand:	339707 VA
A	360 VA	100.00%	360 VA	Total Conn.:	434 A
E	122621 VA	100.00%	122621 VA	Total Est. Demand:	409 A
M	142486 VA	105.83%	150796 VA		

Notes:

Switchboard: INV

Location: MECH. / ELEC. 117
Supply From: H1A
Mounting: SURFACE
Enclosure: NEMA 1

Volts: 277 Single
Phases: 1
Wires: 2

A.I.C. Rating: TBD
Mains Type: MLO
Mains Rating: 20 A
Disc. Rating: 20 A

Notes:

CKT	Circuit Description	# of Poles	Frame Size	Trip Rating	Load	Remarks
1	LVL 1 EM LTG	1	20 A	20 A	618 VA	
2	LVL 2 EM LTG	1	20 A	20 A	595 VA	
3	LVL 1 EM LTG	1	20 A	20 A	335 VA	
4	LVL 2 EM LTG	1	20 A	20 A	225 VA	
5	SPARE	1	20 A	20 A	0 VA	
6	SPARE	1	20 A	20 A	0 VA	
				Total Conn. Load:	1773 VA	
				Total Amps:	6 A	

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
L	1773 VA	125.00%	2216 VA		
				Total Conn. Load:	1773 VA
				Total Est. Demand:	2216 VA
				Total Conn.:	6 A
				Total Est. Demand:	8 A

Notes:

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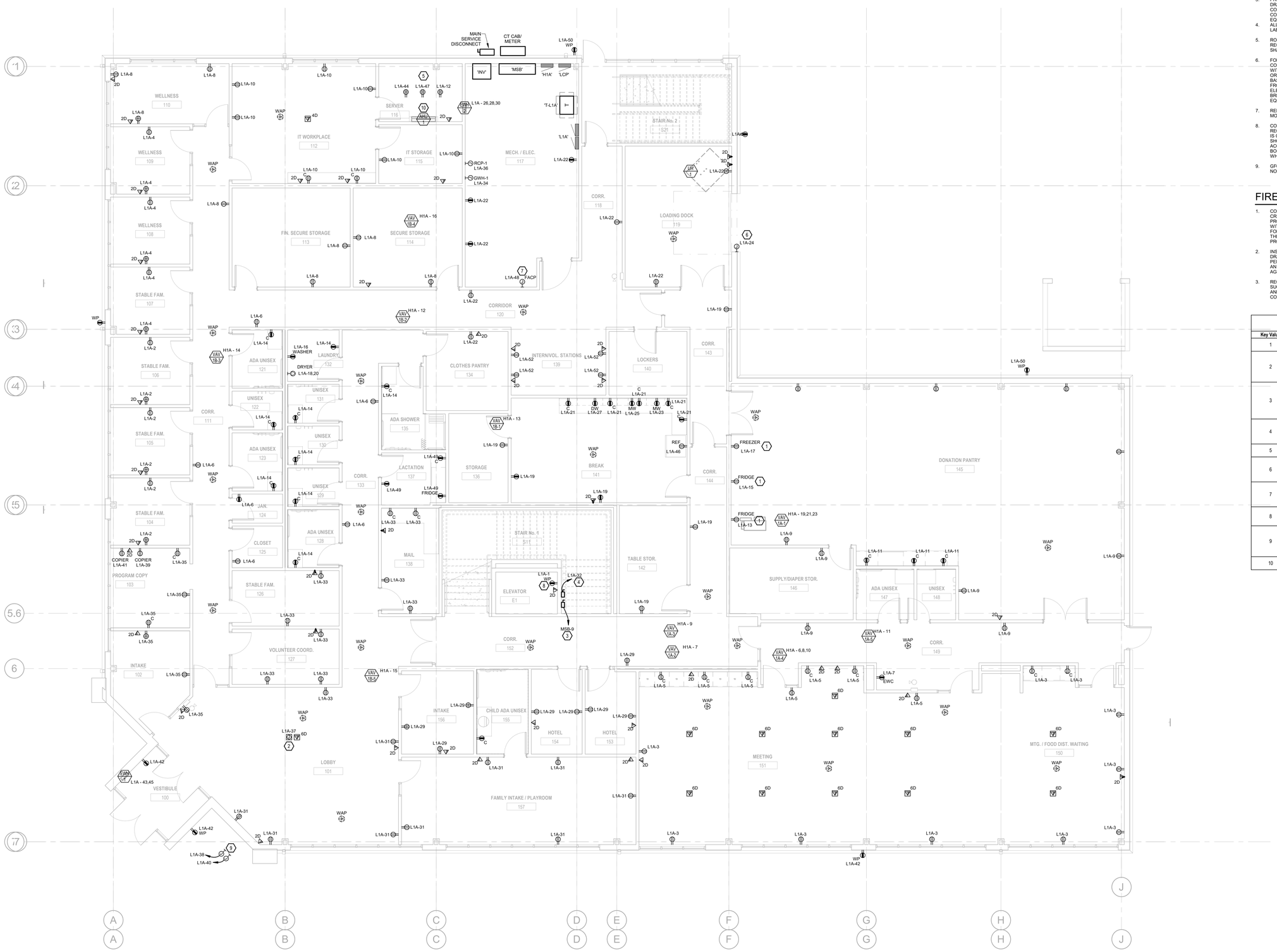
ELECTRICAL PANEL SCHEDULES

E002



GENERAL NOTES - POWER

1. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL CONDUIT/CABLE ROUTING. COORDINATE ROUTING WITH ALL OTHER TRADES AND BUILDING CONDITIONS.
2. SEE SINGLE LINE DIAGRAM FOR FEEDER WIRE AND CONDUIT SIZE. ALL CIRCUITS NOT SIZED ON DRAWING SHALL BE INSTALLED TO MEET MINIMUM SIZE REQUIRED BY NEC.
3. 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.
4. ALL PANELS AND DISCONNECTS LOCATED OUTDOORS SHALL BE LABELED NEMA 3R.
5. 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.
6. 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.
7. REFER TO ARCHITECT'S PLANS AND ELEVATIONS FOR ALL DEVICE MOUNTING HEIGHTS.
8. 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.
9. GFCI DEVICES MUST BE INSTALLED IN ACCESSIBLE LOCATIONS AND NOT PLACED BEHIND EQUIPMENT.

FIRE ALARM - DELEGATED DESIGN

1. COMPLY WITH PERFORMANCE REQUIREMENTS AND DESIGN CRITERIA CONTAINED ON DRAWINGS. RESPONSIBILITY FOR PROVIDING A COMPLIANT , OPERATIONAL FIRE ALARM SYSTEM LIES WITH THIS CONTRACTOR. REFER TO ARCHITECT'S CODE SHEET FOR USE GROUP AND OCCUPANT INFORMATION WHEN PROVIDING THE FIRE ALARM DESIGN. VERIFY REQUIREMENTS SPECIFIC TO PROJECT LOCALITY AND INCLUDE IN SCOPE.
2. INSTALLING CONTRACTOR SHALL FURNISH ALL REQUIRED DRAWINGS AND CALCULATIONS REQUIRED FOR FIRE ALARM PERMIT. DRAWINGS AND CALCULATIONS SHALL BE PREPARED BY AN INDIVIDUAL CARRYING ALL CERTIFICATIONS REQUIRED BY THE AGENCY RESPONSIBLE FOR REVIEW AND APPROVAL.
3. REQUIRED COMPONENTS THAT ARE NOT SHOWN ON DRAWINGS SUCH AS: RELAY MODULES MONITOR MODULES, BOOSTER PANELS, ANNUNCIATORS, ETC. ARE THE RESPONSIBILITY OF THIS CONTRACTOR AND ARE INCLUDED IN THIS SCOPE OF WORK.

Keynote Legend

Key Value	Keynote Text
1	COORDINATE EQUIPMENT LOCATIONS WITH FF&E DRAWINGS PRIOR TO ROUGH-IN.
2	PROVIDE ELECTRICAL CONNECTION TO ELECTRIFIED FURNITURE IN THIS AREA. COORDINATE EXACT LOCATION, ELECTRICAL CONNECTION REQUIREMENTS, AND INSTALLATION REQUIREMENTS WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN.
3	PROVIDE 480V/3P, 40A DISCONNECT FOR ELEVATOR. COORDINATE EXACT ELEVATOR ELECTRICAL REQUIREMENTS WITH APPROVED SUBMITTAL/SHOP DRAWINGS PRIOR TO ROUGH-IN. COORDINATE DISCONNECT LOCATION AND CLEARANCES WITH ELEVATOR MANUFACTURER AND APPOVED SUBMITTAL/SHOP DRAWINGS PRIOR TO ROUGH-IN.
4	PROVIDE 120V/1P, 20A DISCONNECT FOR ELEVATOR CAB LIGHTING/POWER. COORDINATE EXACT ELECTRICAL REQUIREMENTS AND DISCONNECT LOCATION WITH APPROVED ELEVATOR SUBMITTAL/SHOP DRAWINGS PRIOR TO ROUGH-IN.
5	PROVIDE (3) DEDICATED CIRCUITS FOR IT SERVER ROOM. FIELD LOCATE RECEPTACLES/POWER CONNECTION LOCATIONS.
6	PROVIDE DEDICATED, 120V/1P, 20A CIRCUIT FOR LOADING DOCK MOTORIZED DOOR. COORDINATE EXACT LOCATION, CONTROLS, AND INSTALLATION REQUIREMENTS WITH APPROVED SUBMITTAL/SHOP DRAWING PRIOR TO ROUGH-IN.
7	PROVIDE DEDICATED, 120V/1P, 20A CIRCUIT FOR FIRE ALARM CONTROL PANEL. COORDINATE EXACT LOCATION AND ELECTRICAL REQUIREMENTS WITH DELEGATED DESIGN DRAWINGS PRIOR TO ROUGH-IN.
8	COORDINATE EXACT LOCATION OF ELEVATOR PIT RECEPTACLE WITH APPROVED ELEVATOR SUBMITTAL/SHOP DRAWINGS AND IN FIELD.
9	PROVIDE (2) DEDICATED 120V, 20A CIRCUITS FOR SPRINKLER/SUMP PUMP HOT BOX. COORDINATE EXACT ROUTING, LOCATION, AND ELECTRICAL REQUIREMENTS WITH ARCHITECT, OWNER, AND CIVIL DRAWINGS PRIOR TO ROUGH-IN.
10	INDOOR MECHANICAL UNIT POWERED BY OUTDOOR UNIT. REFER TO MECHANICAL SCHEDULES.

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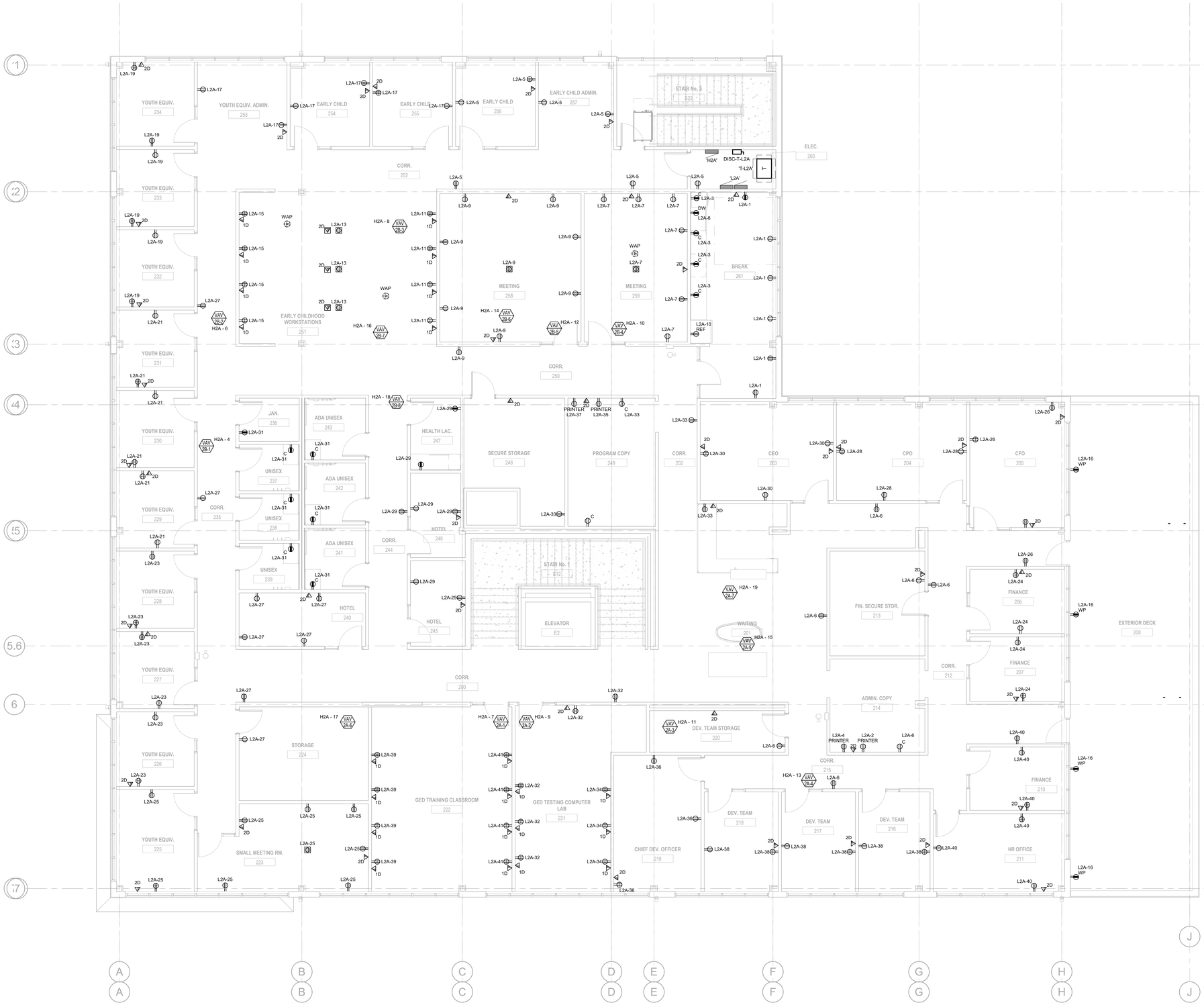
FIRST FLOOR - POWER

E101

1 FIRST FLOOR - POWER NEW
E101 3/16" = 1'-0"



1 SECOND FLOOR - POWER NEW
E102 3/16" = 1'-0"

GENERAL NOTES - POWER

1. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL CONDUIT/CABLE ROUTING. COORDINATE ROUTING WITH ALL OTHER TRADES AND BUILDING CONDITIONS.
2. SEE SINGLE LINE DIAGRAM FOR FEEDER WIRE AND CONDUIT SIZE. ALL CIRCUITS NOT SIZED ON DRAWING SHALL BE INSTALLED TO MEET MINIMUM SIZE REQUIRED BY NEC.
3. 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.
4. ALL PANELS AND DISCONNECTS LOCATED OUTDOORS SHALL BE LABELED NEMA 3R.
5. 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.
6. 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.
7. REFER TO ARCHITECT'S PLANS AND ELEVATIONS FOR ALL DEVICE MOUNTING HEIGHTS.
8. 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.
9. GFCI DEVICES MUST BE INSTALLED IN ACCESSIBLE LOCATIONS AND NOT PLACED BEHIND EQUIPMENT.

FIRE ALARM - DELEGATED DESIGN

1. COMPLY WITH PERFORMANCE REQUIREMENTS AND DESIGN CRITERIA CONTAINED ON DRAWINGS. RESPONSIBILITY FOR PROVIDING A COMPLIANT, OPERATIONAL FIRE ALARM SYSTEM LIES WITH THIS CONTRACTOR. REFER TO ARCHITECT'S CODE SHEET FOR USE GROUP AND OCCUPANT INFORMATION WHEN PROVIDING THE FIRE ALARM DESIGN. VERIFY REQUIREMENTS SPECIFIC TO PROJECT LOCALITY AND INCLUDE IN SCOPE.
2. INSTALLING CONTRACTOR SHALL FURNISH ALL REQUIRED DRAWINGS AND CALCULATIONS REQUIRED FOR FIRE ALARM PERMIT. DRAWINGS AND CALCULATIONS SHALL BE PREPARED BY AN INDIVIDUAL CARRYING ALL CERTIFICATIONS REQUIRED BY THE AGENCY RESPONSIBLE FOR REVIEW AND APPROVAL.
3. REQUIRED COMPONENTS THAT ARE NOT SHOWN ON DRAWINGS SUCH AS; RELAY MODULES MONITOR MODULES, BOOSTER PANELS, ANNUNCIATORS, ETC. ARE THE RESPONSIBILITY OF THIS CONTRACTOR AND ARE INCLUDED IN THIS SCOPE OF WORK.

Keynote Legend	
Key Value	**Keynote Text**

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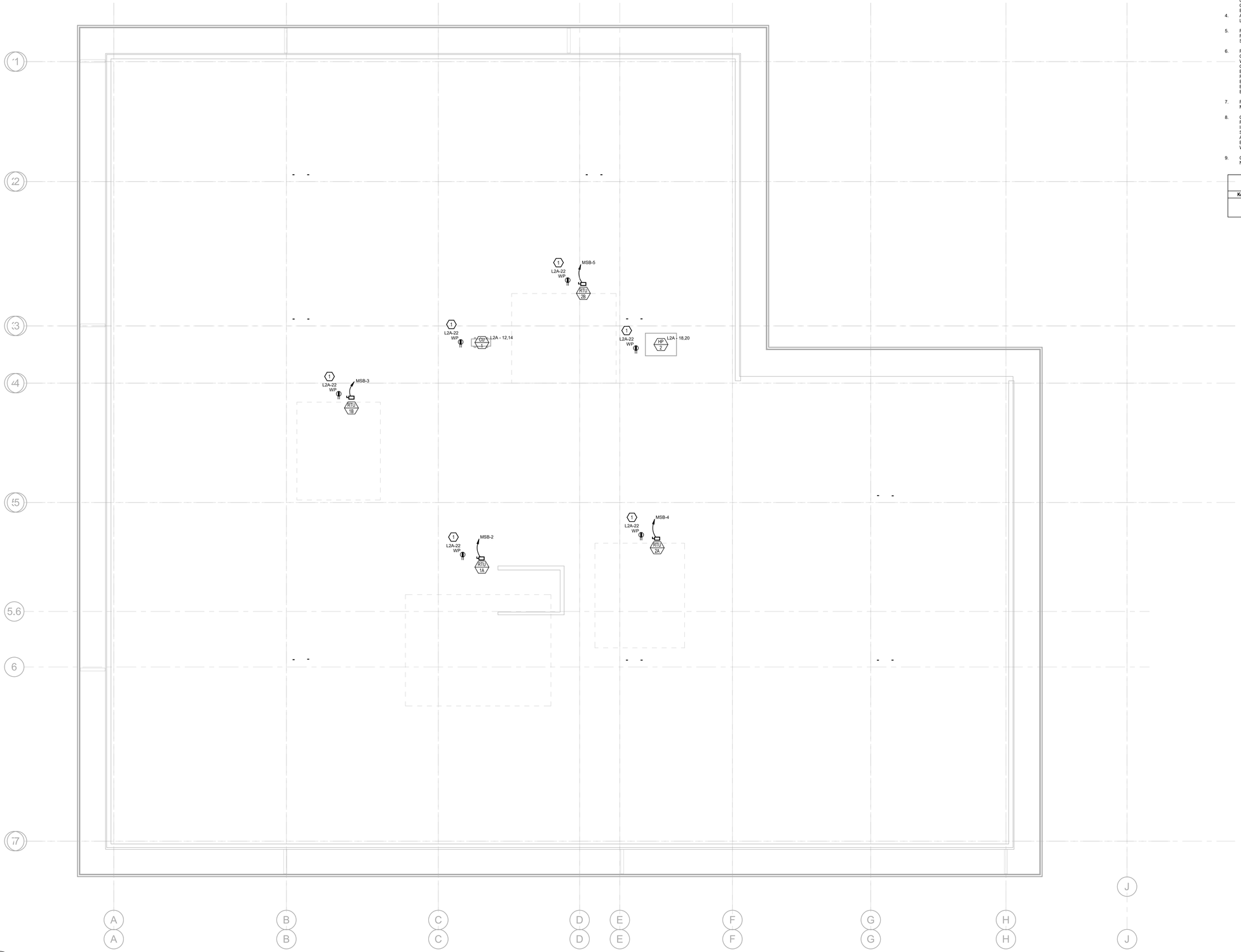
SECOND FLOOR - POWER

E102



1 ROOF - POWER NEW
E103
3/16" = 1'-0"

GENERAL NOTES - POWER

1. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL CONDUIT/CABLE ROUTING. COORDINATE ROUTING WITH ALL OTHER TRADES AND BUILDING CONDITIONS.
2. SEE SINGLE LINE DIAGRAM FOR FEEDER WIRE AND CONDUIT SIZE. ALL CIRCUITS NOT SIZED ON DRAWING SHALL BE INSTALLED TO MEET MINIMUM SIZE REQUIRED BY NEC.
3. 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.
4. ALL PANELS AND DISCONNECTS LOCATED OUTDOORS SHALL BE LABELED NEMA 3R.
5. 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.
6. 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.
7. REFER TO ARCHITECT'S PLANS AND ELEVATIONS FOR ALL DEVICE MOUNTING HEIGHTS.
8. 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.
9. GFCI DEVICES MUST BE INSTALLED IN ACCESSIBLE LOCATIONS AND NOT PLACED BEHIND EQUIPMENT.

Keynote Legend	
Key Value	**Keynote Text**
1	PROVIDE PEDESTAL MOUNTED WEATHERPROOF SERVICE RECEPTACLE NEAR ROOFTOP EQUIPMENT. COORDINATE MOUNTING AND EXACT LOCATION IN FIELD.

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ROOF - POWER

E103

GENERAL NOTES - LIGHTING

1. REFER TO ARCHITECT'S PLANS AND ELEVATIONS FOR DIMENSIONED LOCATIONS OF LIGHT FIXTURES.
2. PROVIDE HOLD-ON-TYPE BREAKERS FOR EGRESS/EMERGENCY LIGHTING CIRCUITS. WIRE ALL EGRESS/EMERGENCY FIXTURES AHEAD OF ANY LOCAL SWITCHING.
3. LIGHT FIXTURES CONTROLLED BY SWITCH IN SAME ROOM UNLESS OTHERWISE NOTED.
4. 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.
5. ALL EXTERIOR LIGHTING TO BE CONTROLLED VIA TIMECLOCK, LOCATED IN THE MAIN ELECTRICAL ROOM. FIELD COORDINATE EXACT LOCATION.
6. CIRCUIT ALL EXIT SIGNS TO THE NEAREST EMERGENCY INVERTER CIRCUIT.

Keynote Legend

Key Value	Keynote Text
1	COORDINATE COVE LIGHTING LENGTHS AND INSTALLATION REQUIREMENTS WITH ARCHITECT'S DRAWINGS, AND IN FIELD.
2	"F1" COVE LIGHTING TO BE CONTROLLED VIA OCCUPANCY SENSOR LOCATED ON SECOND FLOOR CEILING.
3	PROVIDE JUNCTION BOX WITH DEDICATED 277V/1P, 20A CIRCUIT FOR FUTURE EXTERIOR SIGNAGE. COORDINATE POWER REQUIREMENTS AND EXACT LOCATION WITH OWNER AND ARCHITECT PRIOR TO ROUGH-IN.
4	PROVIDE (2) 277V/1P, 20A CIRCUITS FOR SITE LIGHTING. COORDINATE LIGHTING LAYOUTS, SPECIFICATIONS, CONTROLS, AND ELECTRICAL REQUIREMENTS WITH CIVIL DRAWINGS PRIOR TO ROUGH-IN.

1 FIRST FLOOR - LIGHTING NEW
E201 3/16" = 1'-0"

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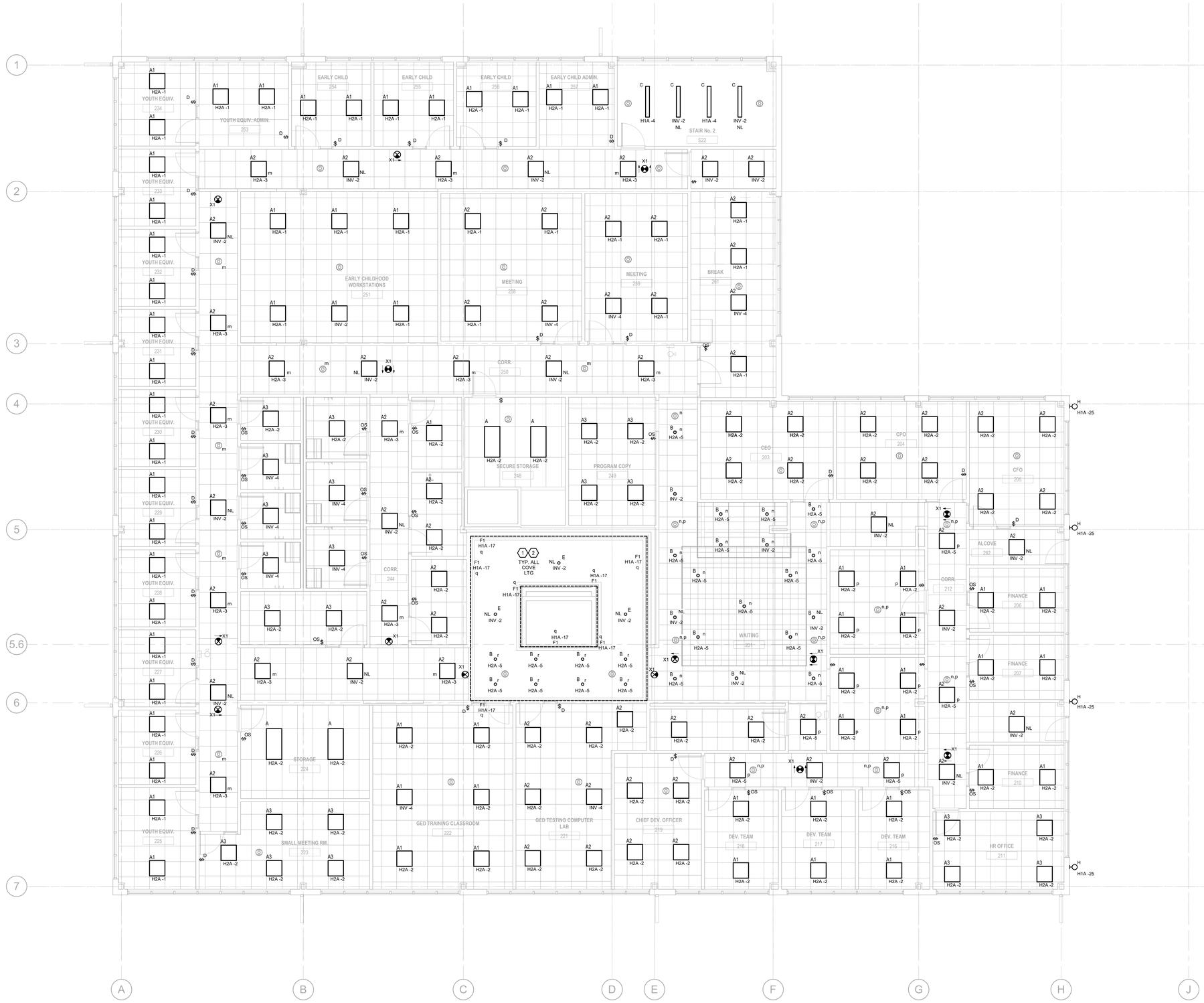
LIGHTING - FIRST FLOOR

E201



1 SECOND FLOOR - LIGHTING NEW
E202 3/16" = 1'-0"

GENERAL NOTES - LIGHTING

1. REFER TO ARCHITECT'S PLANS AND ELEVATIONS FOR DIMENSIONED LOCATIONS OF LIGHT FIXTURES.
2. PROVIDE HOLD-ON-TYPE BREAKERS FOR EGRESS/EMERGENCY LIGHTING CIRCUITS. WIRE ALL EGRESS/EMERGENCY FIXTURES AHEAD OF ANY LOCAL SWITCHING.
3. LIGHT FIXTURES CONTROLLED BY SWITCH IN SAME ROOM UNLESS OTHERWISE NOTED.
4. 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.
5. ALL EXTERIOR LIGHTING TO BE CONTROLLED VIA TIMECLOCK, LOCATED IN THE MAIN ELECTRICAL ROOM. FIELD COORDINATE EXACT LOCATION.
6. CIRCUIT ALL EXIT SIGNS TO THE NEAREST EMERGENCY INVERTER CIRCUIT.

Keynote Legend

Key Value	Keynote Text
1	'F1' COVE LIGHTING TO BE CONTROLLED VIA OCCUPANCY SENSOR LOCATED ON SECOND FLOOR CEILING.
2	COORDINATE COVE LIGHTING LENGTHS AND INSTALLATION REQUIREMENTS WITH ARCHITECT'S DRAWINGS, AND IN FIELD.

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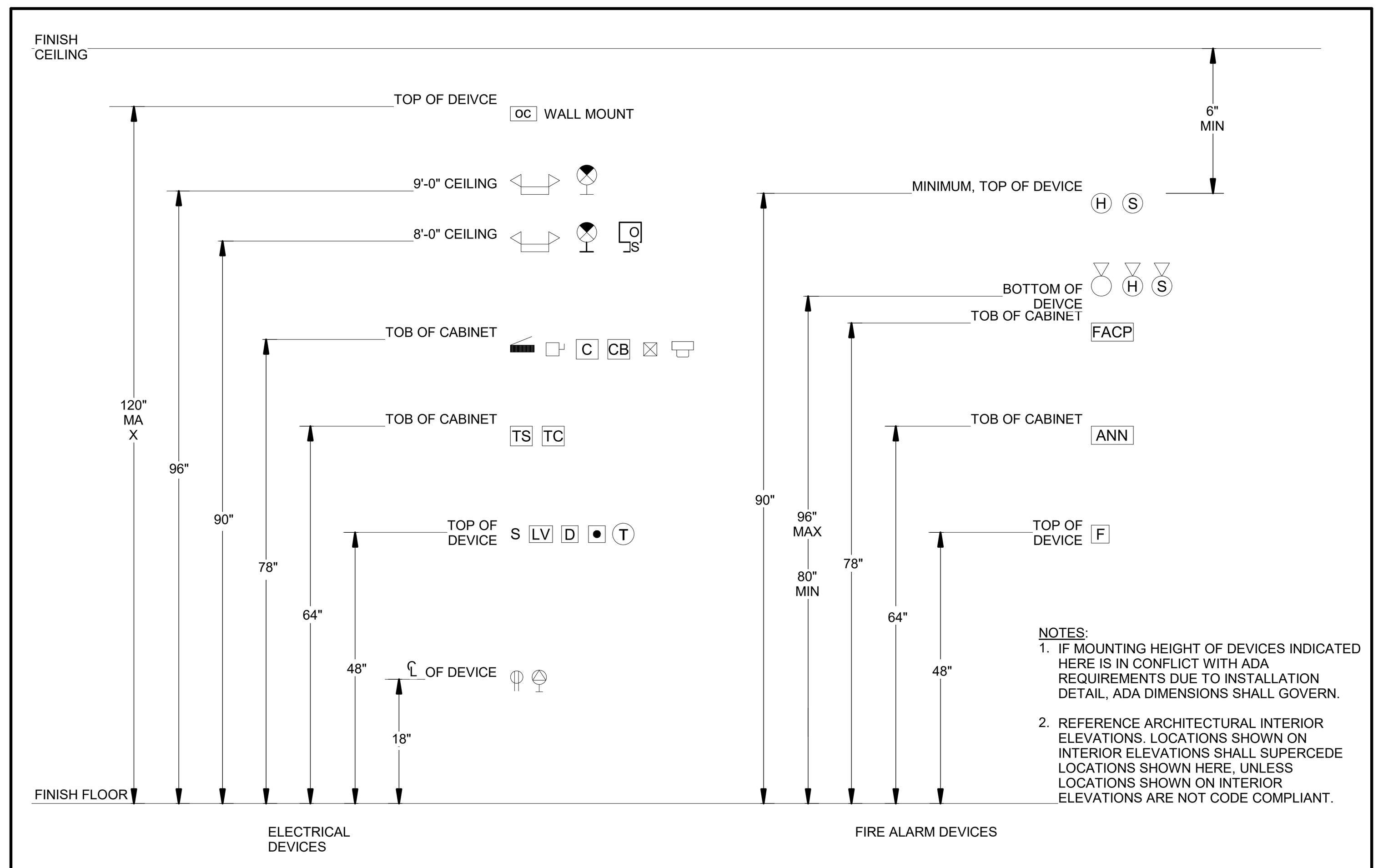
LIGHTING - SECOND FLOOR

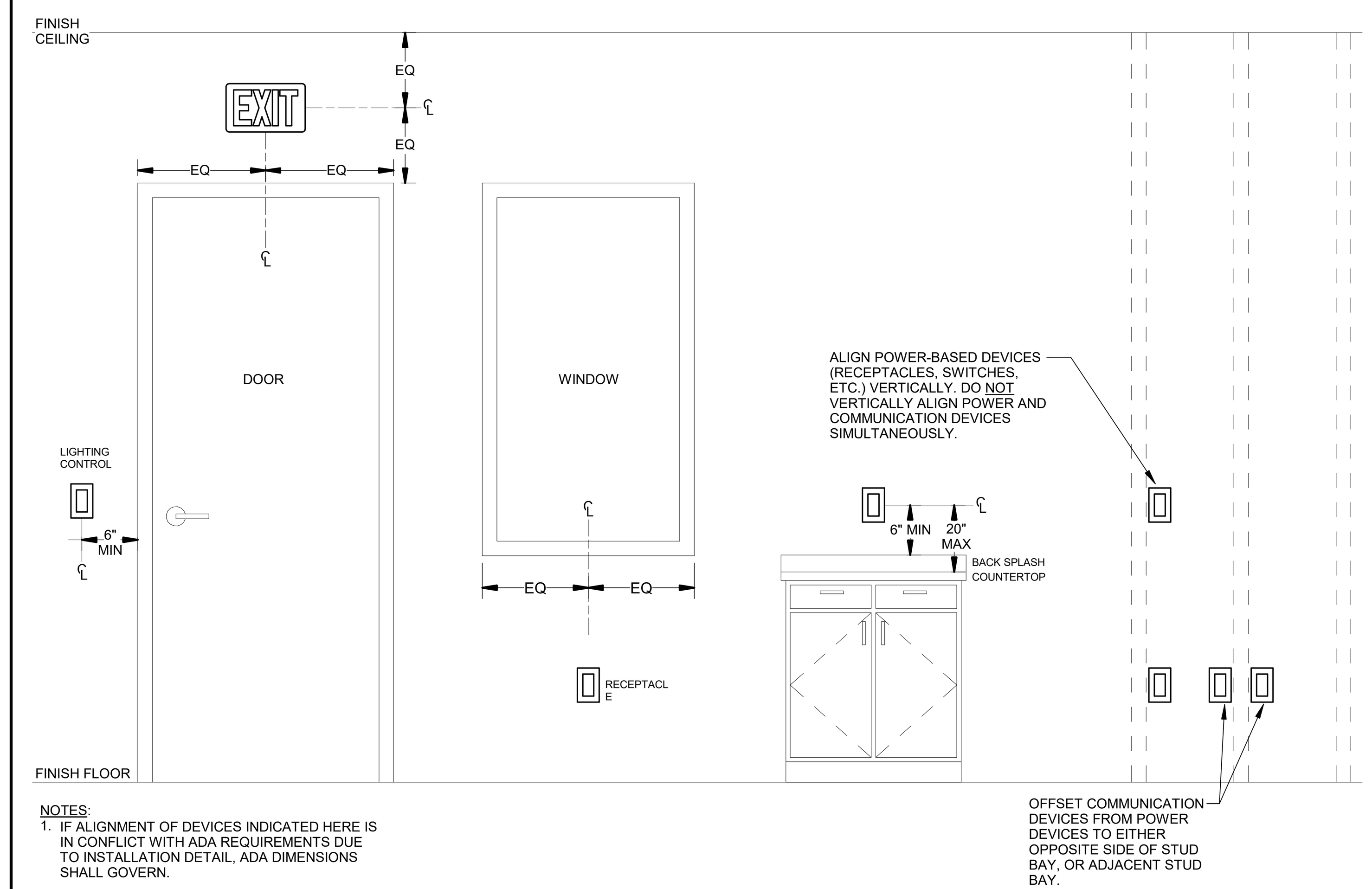
E202

ELECTRICAL SPECIFICATIONS

1. General Demolition
   a. Refer to architectural drawings, general notes, instructions to bidders, general conditions, supplementary general conditions, base building specifications and drawings, shop drawing manuals and as-built plans, except as noted herein, which apply in all respects to this section. The contractor shall visit the site and familiarize himself with all existing conditions prior to bidding the work
2. Use of Drawings And Specifications
   a. EBS drawings and specifications are intended to convey design intent only. All means and methods sequences, techniques, and procedures of construction as well as any associated safety precautions and programs, and all incidental and temporary devices required to construct the project, and to provide a complete and fully operational electrical system are the responsibility of the electrical contractor.
3. Standards
   a. Materials equipment and materials shall conform with appropriate provisions of NEC, ASTM, UL, ETL, NEMA, ANSI, as applicable to each individual unit or assembly.
4. Codes
   a. All work shall be performed in strict accordance with all applicable state and local codes and ordinances. In case of conflict between the drawings/specifications and the codes and ordinances, the highest standard shall apply. The electrical contractor shall satisfy code requirements as a minimum standard without any extra cost to owner.
5. Permits and Fees
   a. The electrical contractor shall procure and pay for all permits, fees and inspections necessary to complete the electrical work.
6. Warranty
   a. The electrical contractor shall unconditionally warrant all work to be free of defects in material and workmanship for a period of one (1) year from the date of final acceptance, and will repair or replace any defective work promptly and without charge and restore any other existing work damaged in the course of repairing defective materials and workmanship.
7. Site Examination
   a. The electrical contractor shall thoroughly examine all areas of work where equipment will be installed and shall report any condition that, in his opinion, prevents the proper installation of the electrical work prior to bid. He shall also examine the drawings and specifications of other branches of work making reference to them for details of new or existing building conditions.
   b. All work shall be done at times convenient to the owner and only during normal working hours, unless specified otherwise.
   c. Electrical contractor shall take his own measurements and be responsible for them.
   d. Access panels are not shown on drawings. During site examination, contractor shall identify all areas where access panels are required, and report to general contractor. Designation of who furnishes and who installs access panels must be coordinated with general contractor prior to starting work.
8. Contractor Coordination
   a. Coordination drawings showing system and component installation layout, routing, details, etc. Shall be produced by the electrical contractor and under the supervision of the general contractor/construction manager, or appropriate party as applicable.
   b. All systems installed by each sub-contractor shall be coordinated with one another and approved by general contractor/construction manager, etc. prior to installation and/or fabrication. Where the electrical contractor is making a connection to equipment/components that are furnished by others, electrical contractor to verify all connection requirements with actual equipment being connected, including but not limited to OCP size, means of disconnect, special connection requirements, or other items indicated on shop drawings, or manufacturer's installation instructions and/or installation diagrams, and furnish all labor and materials required for the installation and operation of the equipment. No allowances will be made for failure to coordinate, after electrical connections have been installed.
   c. If questions concerning design intent arise during coordination, EBS can assist where appropriate.
   d. The architectural drawings shall take precedence over all other drawings. Do not scale distances off the electrical drawings; use actual building dimensions.
   e. Coordination drawings showing system and component installation layout, routing, details, etc. shall be produced by the electrical contractor and under the supervision of the general contractor/construction manager, or appropriate party as applicable. All systems installed by each sub-contractor shall be coordinated with one another and approved by general contractor/construction manager, etc. prior to installation and/or fabrication. If questions concerning design intent arise during coordination, EBS can assist where appropriate.
9. Utility Coordination
   a. Electrical contractor to verify installation of metering and utility demarcation equipment with utility provider prior to start of work and furnish and install required items per utility company's installation requirements and/or manuals.
1. Submittals
   a. Products installed by the electrical contractor and provided by others must be submitted for review prior to purchasing. Products shall not be selected based on permit drawings without express permission - products shall be selected based on construction drawings.
11. Record Drawing
   a. The electrical contractor shall be responsible for creating record drawings where required. Drawings shall be produced in Autocad 2004 format or later.
12. Shop Drawings
   a. Submit to the architect pdf file copies of complete & certified shop drawings, descriptive data, performance data & ratings, diagrams and specifications on all specified equipment, including accessories, and materials for review.
   b. The make, model number, type, finish & accessories of all equipment and materials shall be reviewed & approved by the electrical contractor & general contractor prior to submitting to the architect for their review & approval.
   c. Review of shop drawings does not relieve the electrical contractor/vendor from compliance with the requirements of the contract drawings, specifications & applicable codes.
1. Testing
   a. All electrical systems shall be tested for proper operation. Balance all branch circuit loads between the phases of the system to within 10% of the highest phase load in each panelboard.
14. Temporary Power
   a. The electrical contractor shall provide temporary electrical wiring for construction. The temporary service shall be a minimum of 60 amps, single phase, three wire, 120/208 volts fused at main disconnect. All receptacles on this temporary service shall be protected by a GFI breaker.
15. Mechanical Equipment
   a. All final connections to mechanical equipment shall be done by the electrical contractor.
16. Demolition
   a. The electrical contractor shall be responsible for deenergizing circuits in demolition areas to insure a safe condition. Electrical devices and associated wiring located within the demolition area that will no longer be used shall be removed and properly disposed of at contractor's expense unless otherwise noted.
17. Power Outages
   a. The electrical contractor shall schedule all electrical system(s) outages with the general contractor and owner at least 24 hours in advance. Unless approved otherwise all outages shall occur between 11:00pm and 5:00am.
18. Grounding and Bonding
   a. Contractor to provide grounding and bonding as required for electrical systems. Grounding and bonding is considered means and methods of construction, and should be completed by the electrical contractor in accordance with NEC 250.
   b. Any gas piping systems must be bonded per utility provider's installation guidelines where required.
1. Materials
   a. Provide all new material and equipment unless noted otherwise. All equipment shall be UL approved and labeled, or other approved testing organization which has acceptance by the local jurisdiction, for the purpose for which they are used, in addition to meeting all requirements of the current applicable codes and regulations. No substitution to materials specified will be allowed unless approved by the owner.
   b. Electrical contractor shall not order or purchase any materials or equipment until permit drawings have been approved. No allowances will be made for any changes that occur if permit drawings have not been approved prior to ordering.
20. Cutting and Fitting
   a. Perform cutting, coring, fitting, repairing and finishing of the work necessary for the installation of the equipment of this section. However, no cutting of the work of other trades or of any structural member shall be done without the consent of the owner. Properly fill, seal, fireproof, and waterproof all openings, sleeves, and holes in slabs, walls, and casework.
21. Wiring Methods
   a. Provide code approved wiring methods for branch circuiting indoors, such as NM cable (only where permitted by NEC 334), EMT conduit, or MC cable for mechanical equipment, lighting, and power.
   b. Conduit runs on exterior of building shall be rigid steel conduit with weather tight, corrosion-resistant fittings. Schedule 40 PVC is acceptable where permitted by code and or underground runs or concrete encasement where not exposed to physical damage.
   c. The minimum size of conduit shall be 3/4" unless otherwise noted. Conduit connectors shall be double locknut type, UL listed and labeled, with compression or set screw fittings.
   d. Rigid conduit shall be hot dipped galvanized.
   e. Where raceways are installed for others to use, or for future use, provide nylon pull string.
   f. Penetrations through fire rated construction shall be sealed using 3M fire barrier caulk, Nelson Electric Flameseal or T&B Flamesafe or other approved method.
22. Conductors and Terminations
   a. Branch conductors shall be copper, feeders as indicated on riser diagram. Conductors shall be insulated for 600v number 12 AWG minimum. Provide wires and cables as indicated listed and suitable for temperature, conditions, and location where installed.
23. Motors and Other Wiring
   a. The electrical contractor shall provide all required conduit, wiring, and safety switches for all motors, and other electrical equipment, even though the motors and electrical equipment may be supplied by others. The electrical contractor shall include all work and connections required to make the system complete and operational. Provide magnetic starters for equipment as indicated on the drawings.
   b. The electrical equipment may include but not be limited to such items as grille motors and interlocks, exterior and interior signage, starting devices, motor controllers, float switches, alarm devices or systems, push buttons, exhaust fans, data systems, intercoms and stereo systems. The electrical contractor shall verify equipment location and sizes with the trade supplying the equipment before installing the conduit or outlets.
24. Elevator(s)
   a. Furnish and install all required electrical components and connections for elevator operation. Refer to elevator shop drawings for complete information. Provide shunt-trip operation for elevator circuit where required. Include connections for shaft, sump pump, pit light, receptacle, cab light, etc. Basis of design hp and circuit characteristics shown on drawings must be verified with elevator supplier prior to rough-in or installation.
1. Devices
   a. Hubbell, Leviton, or approved equal with matching coverplates.
   b. Provide specification grade wiring devices, in types, characteristics, grades, colors, and electrical ratings for applications indicated, which are UL-listed and which comply with NEMA WD1 and other applicable UL and NEMA standards. Verify color selections with architect. Provide device plates to match device colors.
   c. Provide GFCI protection for all kitchen 15 and 20-amp receptacles. Where the receptacle is rendered inaccessible by equipment provide GFCI protection at the circuit breaker.
26. Service entrance and distribution equipment
   a. Electrical contractor must submit drawings for permit and receive approval prior to ordering equipment. No allowances will be made for equipment changes that occur prior to receipt of approved plans.
1. Transformers
   a. Dry type transformers - 15kva to 500 kVA - 600 volts or less, single and three- phase. Concrete pads for transformers, properly sleeved for transformer tap compartments.
   b. All applicable material shall conform to NEMA standards. All applicable material shall bear UL labels.
   c. Transformers shall be ventilated type, single and/or three-phase, 60 hertz, dry type, air cooled, two winding, insulated, high efficiency, low sound level, as listed on the drawings. Provide transformers of same manufacturer as switchboards and panelboards.
   d. Coils shall utilize an underwriters' laboratory approved, 220 (C insulation system and the average temperature rise shall not exceed 115°c above a 40°c maximum ambient. All units shall have NEMA standard taps. 2-2 1/2% AN and 4-2 1/2% BN.
   e. Cores shall be manufactured with a high grade, non-aging silicon steel stacked without gaps and firmly clamped. The core and coil assembly shall be mounted on vibration pads and bolted to the enclosure. The enclosure for separately mounted transformers shall be provided with lifting eyes or brackets nema-3r outdoor, to prevent access to live parts. Top of case temperatures shall not exceed UL acceptable levels.
   f. Transformers shall be installed on minimum 3-1/2" concrete pads, plumb and level in accordance with the manufacturer's instructions and applicable codes.
   g. Terminate primary and secondary conductor with compression connectors. Grounding to be per NEC.
   h. Verify incoming voltage to transformer and set taps at the voltage level.
   i. Provide lockable breakers for feeders supplying transformers that are not located within site of the over-current protection. Transformers shall be field marked with the location of the over-current protection device.
28. 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.
29. Nameplates
   a. Provide permanent nameplate labeling on all disconnects. Include load served, voltage, phase, horsepower, fuse size, and type.
30. Mounting
   a. Mount independent of the mechanical unit housing unless specifically accepted by the local code authority. Provide Unistrut support channels mounted in coordination with roof penetration and patching work. Coordinate with general contractor.
31. 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.
32. Lighting Contactors
   a. Provide lighting contactors as indicated on drawings. 30A, 12-pole lighting contactor in NEMA 1 enclosure.
33. Switchboards
   a. Switchboards shall be of the same manufacturer as the panelboards. The assembly shall be rated to withstand mechanical forces exerted during short circuit conditions when connected directly to a power source.
   b. Provide NEMA 1 enclosure where located indoors in dry locations. Provide NEMA 3R enclosures where located outdoors. All exterior and interior steel surfaces of the switchboard shall be properly cleaned and provided with a rust-inhibiting phosphatized coating. Color shall be ANSI 61 light gray. Provide 3.5" housekeeping pad for all switchboards.
34. 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.
35. Lighting
   a. Provide a new lighting system complete and fully operational and in conformance with code and UL listing requirements. Clean all fixtures at time of job completion utilizing manufacturers approved or recommended cleaning solutions. All fixtures and lamps are provided by this contractor as scheduled unless noted otherwise. Contractor shall furnish all boxes, mounting kits, transformers, controllers, and other components necessary for a complete and fully functional installation.
   b. Where dimmers and/or dimming systems are required, contractor to furnish dimmers that are compatible with fixture source and rated for the wattage of the dimming zone. Provide additional dimmers as required to meet zone load requirements.
36. 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.
37. Data/Pos/A-V/System Notes
   a. Data, POS and/or A-V wiring and systems provided by owner. Verify system requirements and rough-in locations with owner prior to start of construction. Electrical contractor shall provide plaster ring and pull string from each device location to above accessible ceiling.
38. Fire Alarm System
   a. Fire alarm system to be design-build by contractor. Contractor shall provide all required drawings and submit to authorities. Refer to architect's code sheet for relevant design criteria. Submit drawings to Owner/Architect for review prior to submitting to authorities. Provide required items including but not limited to relay modules, monitor modules, return-air detectors, elevator recall, etc. Provide remote annunciator panel(s) at location(s) approved by Architect and authorities.



TYPICAL DEVICE MOUNTING HEIGHTS
SCALE: NONE



NOTES:
1. IF ALIGNMENT OF DEVICES INDICATED HERE IS IN CONFLICT WITH ADA REQUIREMENTS DUE TO INSTALLATION DETAIL, ADA DIMENSIONS SHALL GOVERN.
2. REFERENCE ARCHITECTURAL INTERIOR ELEVATIONS. LOCATIONS SHOWN ON INTERIOR ELEVATIONS SHALL SUPERCEDE LOCATIONS SHOWN HERE, UNLESS LOCATIONS SHOWN ON INTERIOR ELEVATIONS ARE NOT CODE COMPLIANT.

TYPICAL DEVICE MOUNTING HEIGHTS
SCALE: NONE

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SANTA MARIA COMMUNITY SERVICES

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CERTIFICATION
STATE OF OHIO
PAUL R. SPRONG
PE 74471
REGISTERED
PROFESSIONAL ENGINEER

REVISIONS

#	DATE	DESCRIPTION
2	01/30/2026	PERMIT ISSUE

PROJECT #: 6568
DRAWN: Author **CHECKED:** Checker

ELECTRICAL SPECIFICATIONS

E300