

PROJECT INFORMATION

DRAWINGS AND PROJECT MANUAL APPROVED AND IDENTIFIED AS PARTS OF THE OFFICIAL CONTRACT DOCUMENT

OWNER: SOUTHERN ARKANSAS UNIVERSITY TECH
FACILITY: MANUFACTURING BUILDING INDUSTRY TECHNOLOGY RENOVATION
LOCATION: CAMDEN, ARKANSAS
BY: _____
DATE: _____

CONTRACTOR: --
ADDRESS: --
BY: _____
DATE: _____

ARCHITECT: LEWIS, ELLIOTT, MCMORRAN, VADEN,
RAGSDALE, & WOODWARD INCORPORATED
ADDRESS: 11225 HURON LANE, SUITE 104
LITTLE ROCK, ARKANSAS 72211
BY: _____
DATE: _____

PROJECT NUMBER: 25060
DRAWINGS AND PROJECT MANUAL DATED: 2025 10-23

MATERIAL LEGEND

	CMU (PLAN)
	MASONRY (PLAN)
	METAL STUD FRAMING (PLAN)
	GYPSUM PANELS
	WOOD BLOCKING CONTINUOUS (SECTION)
	WOOD BLOCKING AS NEEDED (SECTION)
	WOOD FINISHED FACE OR SOLID WOOD
	WOOD PLYWOOD (SECTION)
	CONCRETE (SECTION)
	RIGID INSULATION (SECTION)
	BATT INSULATION (SECTION)
	FILL MATERIAL (SECTION)
	REPLACED SOIL (SECTION)

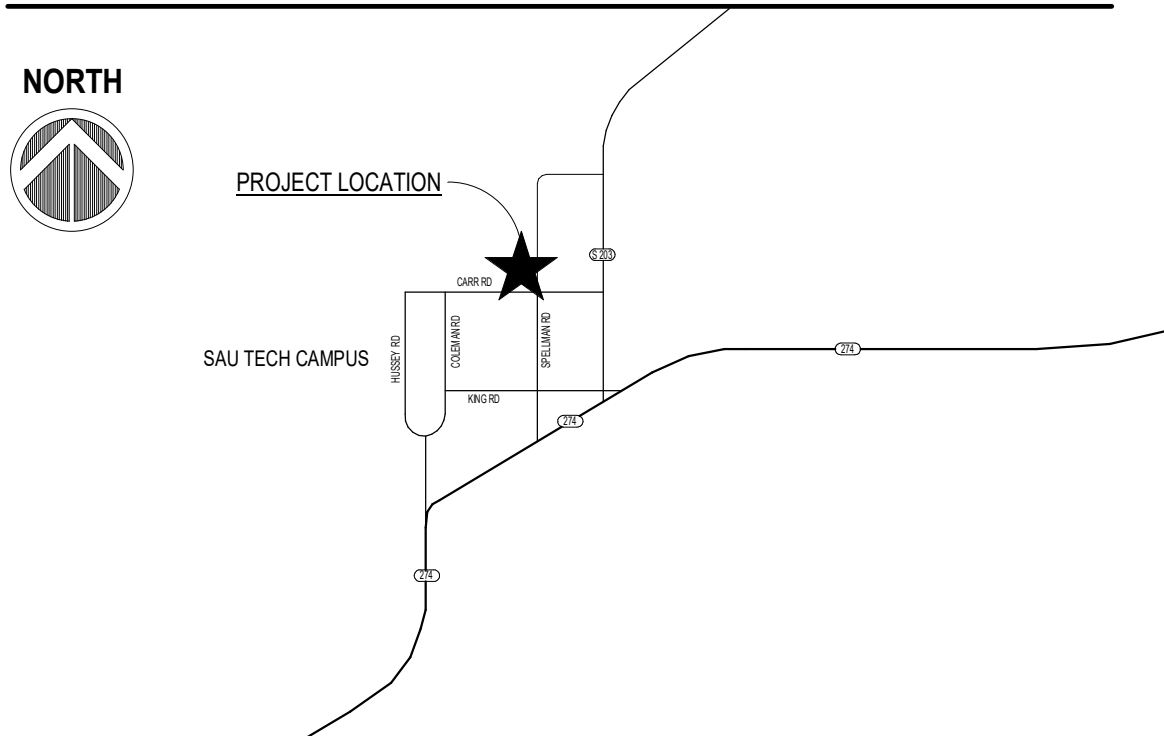
DESIGN DATA

GENERAL CODES:	
INTERNATIONAL BUILDING CODE (IBC)	2021 EDITION
ARKANSAS FIRE PREVENTION CODE (AFPC)	2021 EDITION
SEISMIC:	
SEISMIC RISK CATEGORY II	2021 IBC
SEISMIC DESIGN CATEGORY B	
CALHOUN COUNTY	AFPC REVISIONS
ACCESSIBILITY STANDARDS	
ADA STANDARDS FOR ACCESSIBLE DESIGN	2010 EDITION
OCCUPANCY CLASSIFICATION:	
BUSINESS	IBC 305
BUILDING CONSTRUCTION TYPE	
TYPE - III B (NON-SPRINKLERED)	IBC TABLE 601
TOTAL BUILDING SQUARE FOOTAGE:	
MAIN LEVEL	26,231 SQ. FT. APPROX.
RENOVATION	9,632 SQ. FT. APPROX.
OCCUPANT LOAD:	
EGRESS DESIGN: SQ. FT./150= 175 OCCUPANTS	IBC 1004
EGRESS:	
EGRESS WIDTH REQUIRED: 175 OCCUPANTS x 0.2' = 35	IBC 1003
EGRESS WIDTH PROVIDED: 36" DOORS (36" CLEAR) =	
MINIMUM NUMBER OF EXITS: 2 EXITS (≥50 OCC)	IBC 1006.2
MINIMUM CORRIDOR WIDTH: 44"	IBC 1020.2
FIRE PROTECTION	
PORTABLE FIRE EXTINGUISHERS	NFPA 10
1-HR RATED CONSTRUCTION	IBC TABLE 601

SYMBOL LEGEND

	DOOR MARK, SEE DOOR SCHEDULE
	CASEWORK ELEVATION MARK
	WINDOW / STOREFRONT FRAME MARK
	ROOM NAME
	ROOM NUMBER
	ROOM CEILING HEIGHT
	CEILING FINISH
	DETAIL / SECTION NUMBER
	SHEET NUMBER

VICINITY MAP



CERTIFICATION STATEMENT:

I HEREBY CERTIFY THAT THESE PLANS AND SPECIFICATIONS HAVE BEEN PREPARED BY ME, OR UNDER MY SUPERVISION; I FURTHER CERTIFY THAT TO THE BEST OF MY KNOWLEDGE, THESE PLANS AND SPECIFICATIONS ARE AS REQUIRED BY LAW AND IN COMPLIANCE WITH THE "ARKANSAS FIRE PREVENTION CODE" FOR THE STATE OF ARKANSAS.

LEWIS, ELLIOTT, MCMORRAN, VADEN, RAGSDALE, & WOODWARD, INCORPORATED

ABBREVIATIONS

AFF	ABOVE FINISH FLOOR
AT	ALUMINUM THRESHOLD
CEJC	CEILING EXPANSION JOINT COVER
CJ	CONTROL JOINT
CLG	CEILING
CONC	CONCRETE
CONT	CONTINUOUS
DTL	DETAIL
FD	FLOOR DRAIN
FEC	FIRE EXTINGUISHER CABINET
FEJ	FLOOR EXPANSION JOINT
FLR	FLOOR
GB	GRAB BAR
MECH	MECHANICAL
NHO	NORMALLY HELD OPEN
NTS	NOT TO SCALE
OPG	OPENING
REQ	REQUIRED
SHT	SHEET
SIM	SIMILAR
STO	STORAGE
TYP	TYPICAL
WEJC	WALL EXPANSION JOINT COVER

INDEX OF DRAWINGS

T1.1 TITLE SHEET

ARCHITECTURAL

A0.1	ARCHITECTURAL SITE PLAN
A1.0	DEMO PLAN
A2.0	FLOOR PLAN - RENOVATION
A2.1	ENLARGED FLOOR PLAN
A3.0	BUILDING ELEVATIONS
A4.0	WALL SECTIONS
A4.1	WALL SECTIONS
A4.2	STAIR SECTION & DETAILS
A5.0	REFLECTED CEILING PLAN
A6.0	ELEVATIONS & SCHEDULES

STRUCTURAL

S1.1	STRUCTURAL NOTES
S2.1	DETAILS

PLUMBING

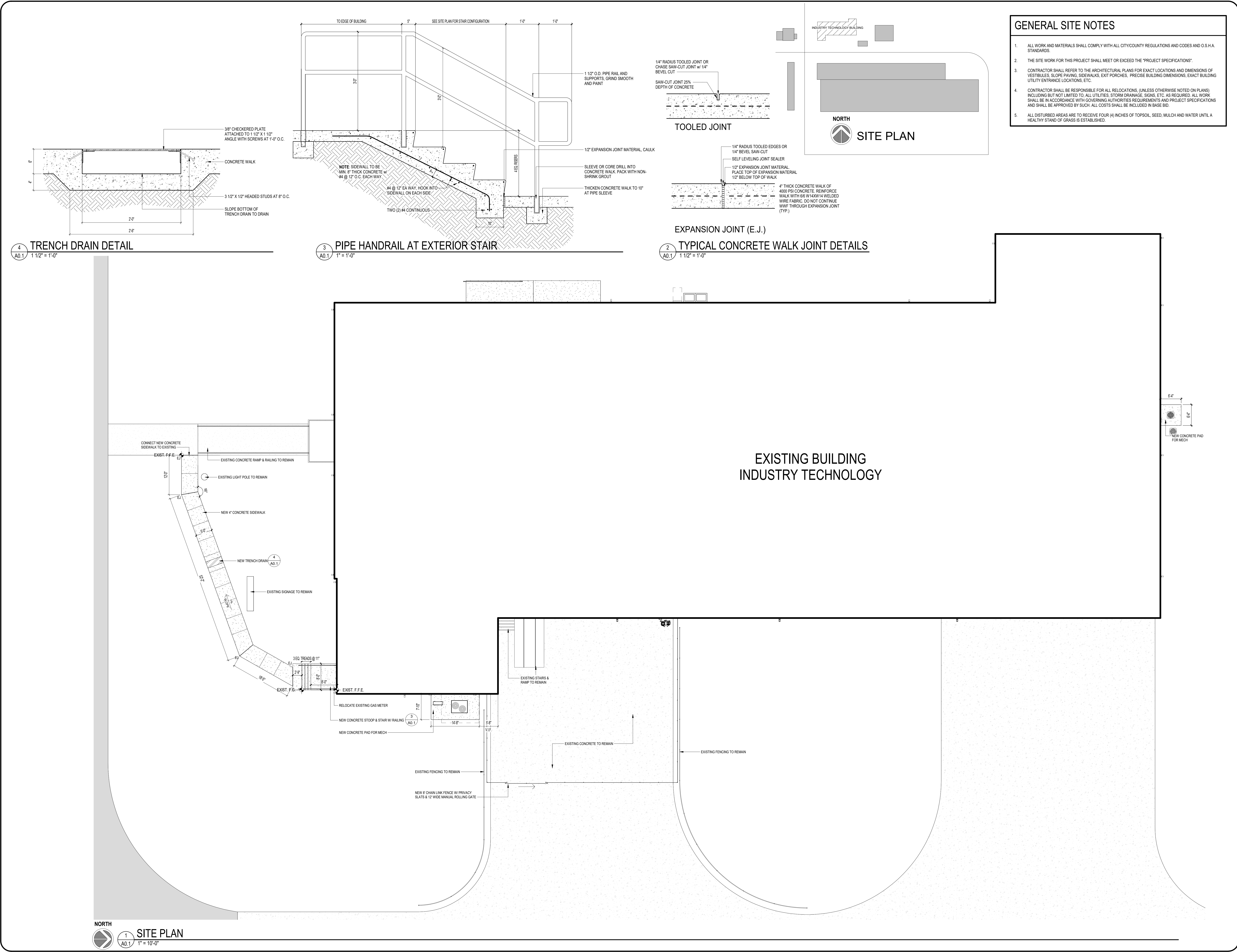
P1.0	FLOOR PLAN - PLUMBING DEMO
P1.1	FLOOR PLAN - PLUMBING
P2.1	PLUMBING SCHEDULES & DETAILS

MECHANICAL

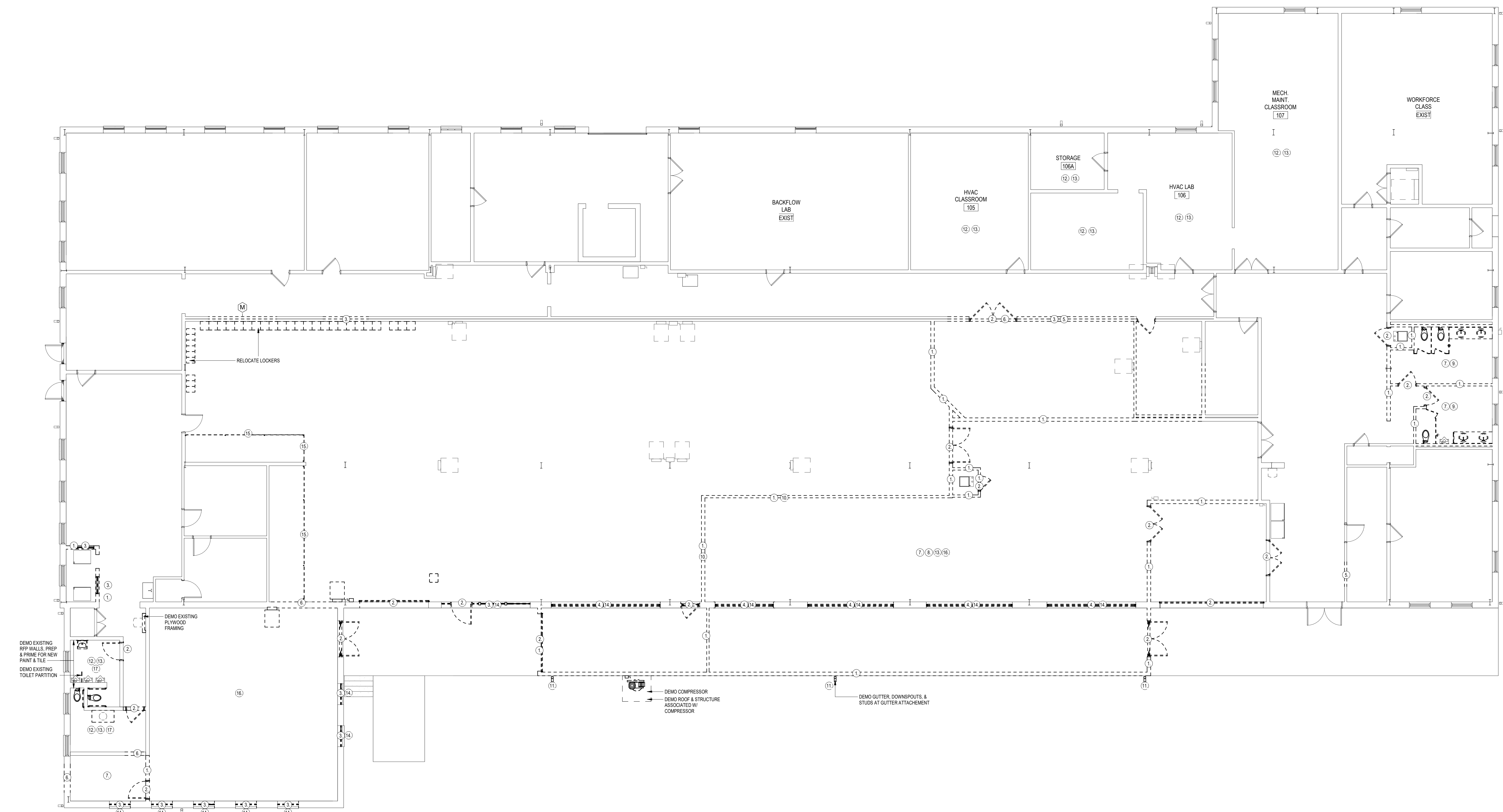
M1.1	DEMOLITION PLAN - HVAC
M1.2	FLOOR PLAN - HVAC
M1.3	ROOF PLAN - HVAC
M2.1	HVAC LEGENDS & SCHEDULES
M3.1	HVAC DETAILS
M3.2	HVAC DETAILS & SECTIONS
M3.3	Unnamed

ELECTRICAL

E0.1	FLOOR PLAN - ELECTRICAL DEMOLITON
E1.1	FLOOR PLAN - LIGHTING
E2.1	FLOOR PLAN - POWER & SYSTEMS
E3.1	ROOF PLAN - POWER & SYSTEMS
E4.1	ELECTRICAL DETAILS & RISERS
E5.1	ELECTRICAL SCHEDULES, LEGEND, & NOTES



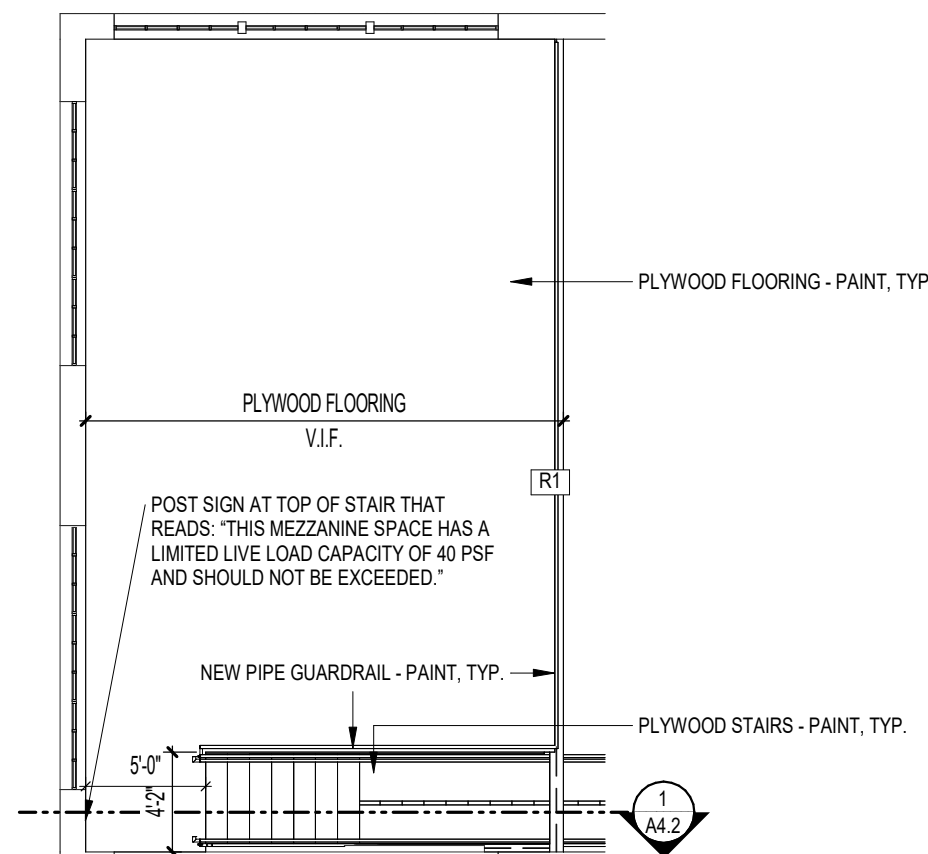
- GENERAL SITE NOTES**
1. ALL WORK AND MATERIALS SHALL COMPLY WITH ALL CITY/COUNTY REGULATIONS AND CODES AND O.S.H.A. STANDARDS.
 2. THE SITE WORK FOR THIS PROJECT SHALL MEET OR EXCEED THE "PROJECT SPECIFICATIONS".
 3. CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND DIMENSIONS OF VESTIBULES, SLOPE PAVING, SIDEWALKS, EXIT PORCHES, PRECISE BUILDING DIMENSIONS, EXACT BUILDING UTILITY ENTRANCE LOCATIONS, ETC.
 4. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RELOCATIONS, (UNLESS OTHERWISE NOTED ON PLANS) INCLUDING BUT NOT LIMITED TO, ALL UTILITIES, STORM DRAINAGE, SIGNS, ETC. AS REQUIRED. ALL WORK SHALL BE IN ACCORDANCE WITH GOVERNING AUTHORITIES REQUIREMENTS AND PROJECT SPECIFICATIONS AND SHALL BE APPROVED BY SUCH. ALL COSTS SHALL BE INCLUDED IN BASE BID.
 5. ALL DISTURBED AREAS ARE TO RECEIVE FOUR (4) INCHES OF TOPSOIL, SEED, MULCH AND WATER UNTIL A HEALTHY STAND OF GRASS IS ESTABLISHED.



DEMO FLOOR PLAN
1
A1.0
1/8" = 1'-0"

- GENERAL DEMOLITION NOTES**
1. SEE ALL OTHER DRAWINGS (PLANS, SECTIONS, STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING, ETC.) FOR ADDITIONAL DEMOLITION NOT SHOWN ON DEMOLITION PLAN.
 2. WHERE WALLS TO BE REMOVED ADJOIN OR ABUT EXISTING WALLS TO REMAIN, PROTECT WALLS TO REMAIN DURING DEMOLITION. ALL REMAINING WALLS TO BE PATCHED AND REPAIRED AS REQUIRED SO THAT NO EVIDENCE OF REMOVED WALLS REMAIN VISIBLE.
 3. NO STRUCTURAL ELEMENTS (BEAMS, COLUMNS, BEARING WALLS, ETC.) SHALL BE REMOVED UNLESS SPECIFICALLY NOTED IN STRUCTURAL DRAWINGS.
 4. DEMOLITION OF ANY ITEM (DOOR, WINDOW, WALL, ETC.) SHALL NOT COMPROMISE THE SECURITY OF THE BUILDING AT ANY TIME. BUILDINGS MUST REMAIN LOCKABLE AT NIGHT, ON WEEKENDS, AND ALL OTHER TIMES WORKERS ARE NOT PRESENT.
 5. CONTRACTOR IS RESPONSIBLE FOR DISPOSAL (ACCORDING TO ALL LOCAL, STATE AND FEDERAL REGULATIONS) OF ITEMS SHOWN TO BE REMOVED.
 6. CONTRACTOR TO VISIT THE SITE TO BECOME FAMILIAR WITH EXISTING CONDITIONS PRIOR TO BIDDING THE PROJECT. BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT PRIOR TO BID.
 7. ANY / ALL PROPERTY DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED / REPLACED AT THE DISCRETION OF THE ARCHITECT, BY THE CONTRACTOR TO THE SATISFACTION OF THE ARCHITECT.
 8. CARE SHALL BE TAKEN DURING DEMOLITION TO PROTECT ALL ELEMENTS OF THE BUILDING.
 9. DEMO AND REPAIR EXISTING AS REQUIRED FOR THE INSTALLATION OF ALL NEW CONSTRUCTION (SHOWN OR NOT). SEE STRUCT. MECH. ELEC. AND PLUMBING DRAWINGS. PATCH AND REPAIR EXISTING AS REQUIRED BY DEMOLITION OF ALL TRADES.
 10. REMOVE EXISTING CEILINGS AT ALL SPACES WHERE NEW CEILINGS ARE SHOWN AND/OR SCHEDULED.
 11. REMOVE EXISTING FLOOR FINISHES AT ALL SPACES WHERE NEW FLOOR FINISHES ARE SCHEDULED.

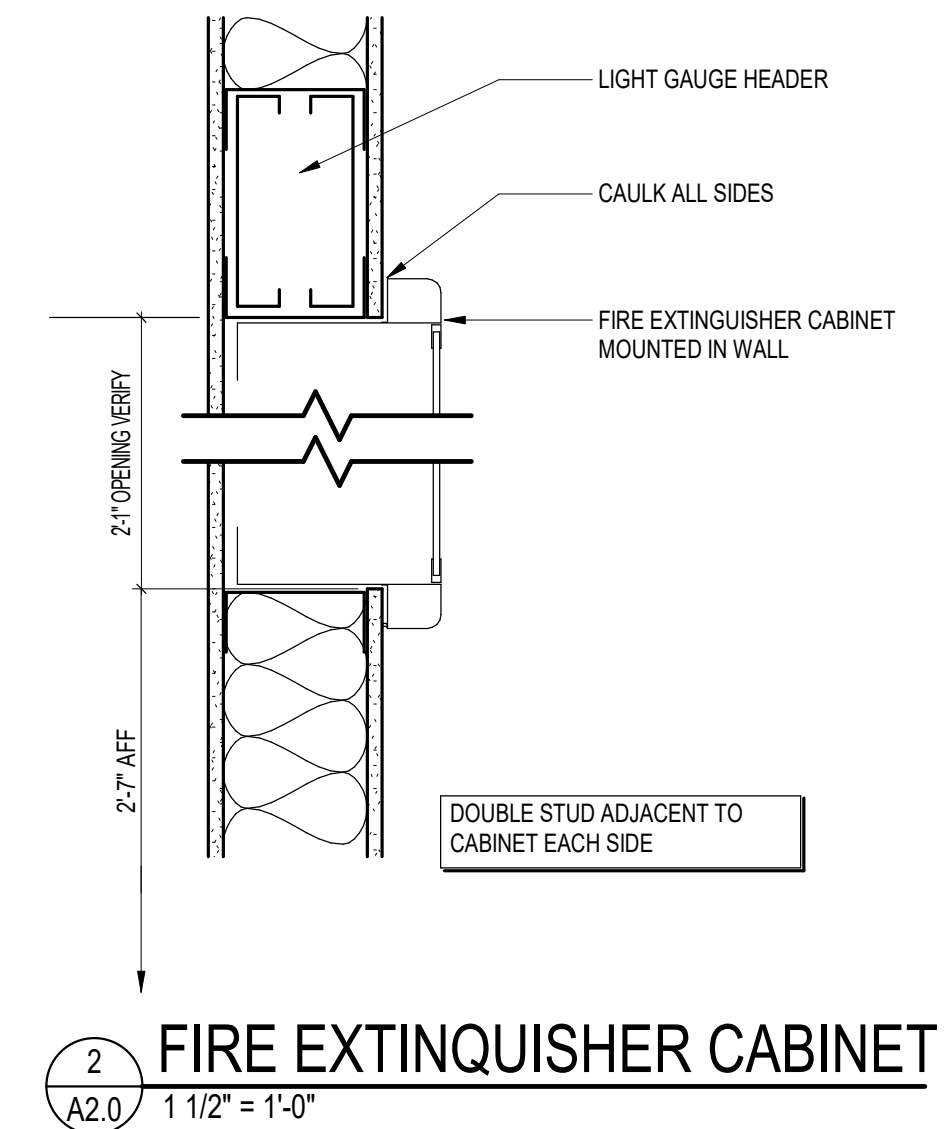
- DEMO NOTES**
- 1 DEMO WALL COMPLETE
 - 2 DEMO DOOR COMPLETE
 - 3 DEMO WINDOW COMPLETE
 - 4 DEMO WINDOW & PREVIOUS INFILL COMPLETE
 - 5 DEMO WALL PARTIAL
 - 6 DEMO WALL FOR NEW DOOR, REWORK OPENING AS REQUIRED
 - 7 DEMO CEILING COMPLETE
 - 8 DEMO AND DISPOSE OF SOUND BATT INSULATION ABOVE CEILING
 - 9 DEMO RESTROOM COMPLETE - EXISTING UTILITIES TO REMAIN
 - 10 DEMO STUD BRACING COMPLETE
 - 11 DEMO DOWNSPOUT COMPLETE
 - 12 PREP & PRIME WALLS FOR NEW PAINT
 - 13 PREP FLOORS FOR NEW FLOORING
 - 14 PREP WINDOW OPENING FOR NEW WINDOW
 - 15 DEMO CAGE COMPLETE
 - 16 PREP & PRIME CEILING FOR NEW PAINT
 - 17 DEMO EXISTING FIXTURES



3
A2.0
1/8" = 1'-0"

STORAGE MEZZANINE

NOTE: THIS MEZZANINE SPACE HAS A LIMITED LIVE LOAD CAPACITY OF 40 PSF AND SHOULD NOT BE EXCEEDED.

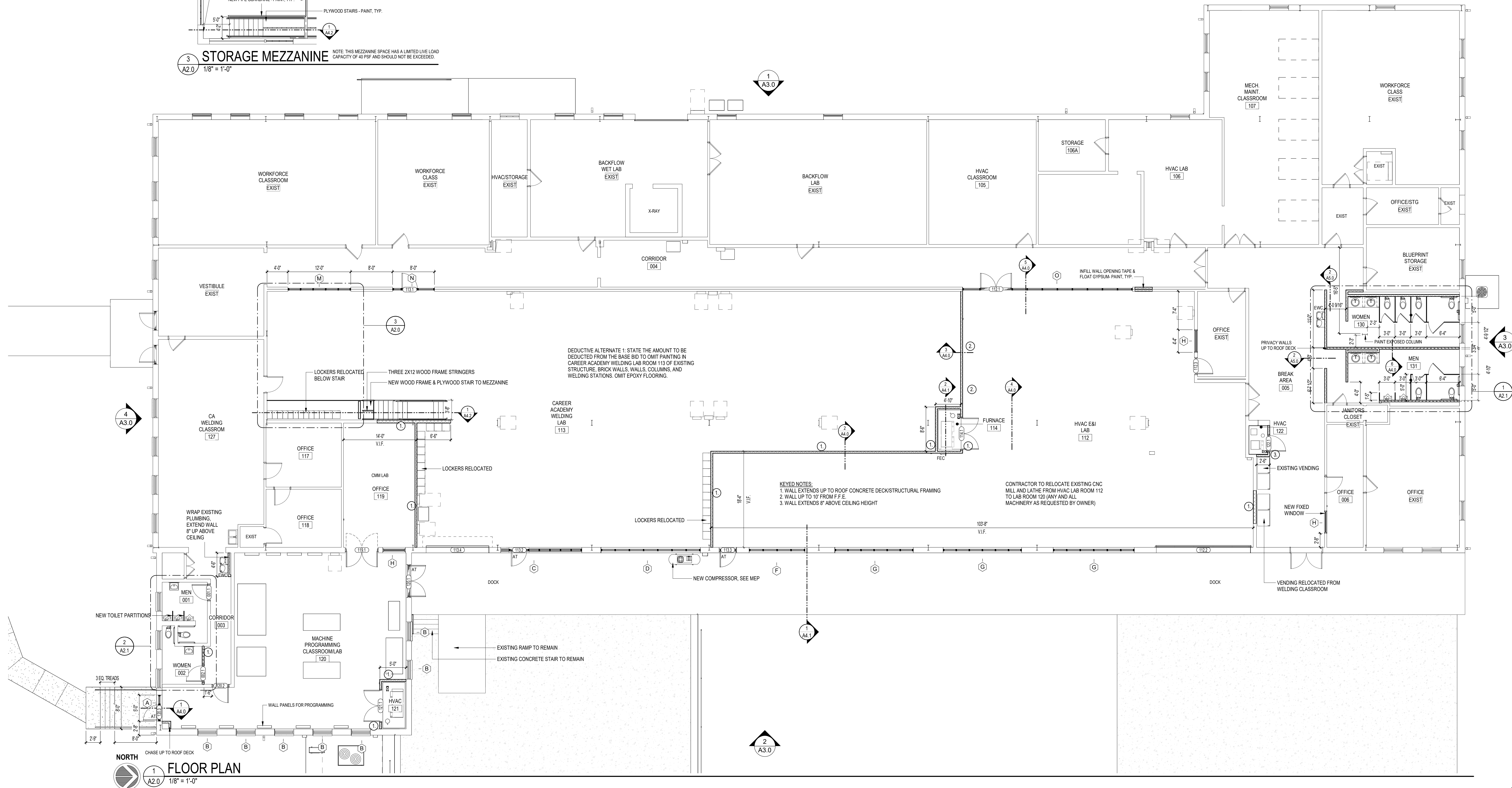


2
A2.0
1 1/2" = 1'-0"

FIRE EXTINGUISHER CABINET

GENERAL NOTES

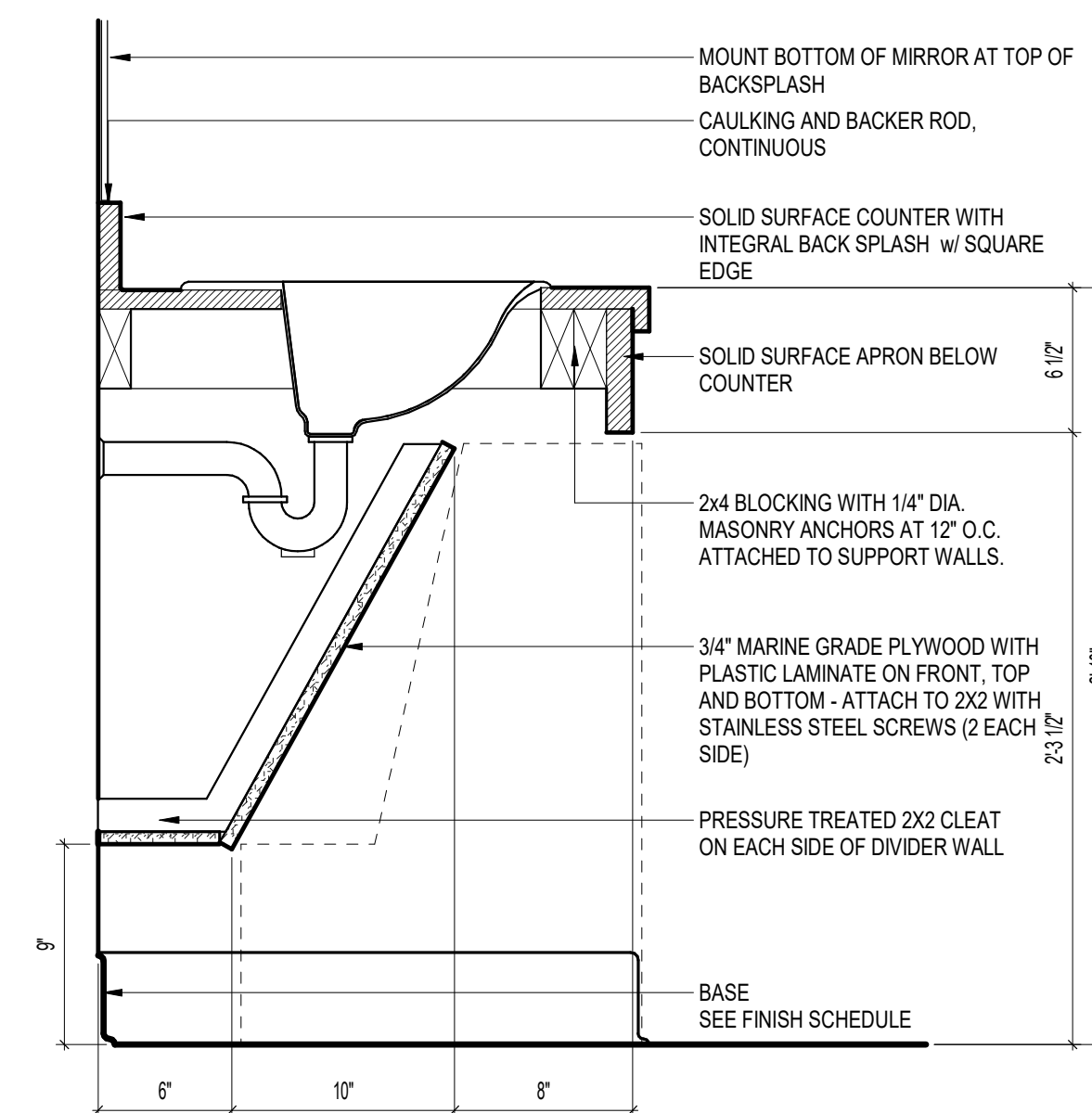
- CONTRACTOR TO VISIT SITE TO BECOME FAMILIAR WITH EXISTING CONDITIONS PRIOR TO BIDDING PROJECT. BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT PRIOR TO BID.
- INTERIOR LIGHT GAUGE METAL STUD WALLS
1. WALLS SHALL BE FRAMED WITH 3 5/8" OR 6" (SEE PLAN) MEMBERS AT 16" O.C. w/ CONTINUOUS TRACK TOP AND BOTTOM, UNLESS NOTED OTHERWISE.
2. EXTEND ALL WALLS 8" MIN. ABOVE CEILING.
3. WALLS WITHOUT AN ADJACENT FINISHED CEILING SHALL EXTEND TO DECK ABOVE.
4. LIGHT GAUGE FRAMING NOT SUFFICIENTLY BRACED BY INTERSECTING FRAMING OR REQUIRED BY HEIGHT OF FRAMING SHALL BE BRACED TO STRUCTURE WITH METAL STUD KICKERS (APPROXIMATELY 45 DEGREES) AT 48" ON CENTER MAXIMUM.
- PRIVACY WALLS (BLOCK OR STUD) SHALL EXTEND TO FLOOR DECK OR 5'-0" ABOVE HIGHEST ADJACENT CEILING WITH L.G. METAL FRAMING AND 5/8" GYPSUM BOARD ON AT LEAST ONE SIDE. PRIVACY WALLS SHALL BE MARKED THUS:
- INTERIOR DOORS NOT DIMENSIONS SHALL BE LOCATED AS FOLLOWS:
1. HINGE SIDE ADJACENT TO INTERSECTING WALL (CMU).
2. LATCH SIDE 1'-4" OFF INTERSECTING WALL (STUD/CMU).
3. CENTERED BETWEEN INTERSECTING WALLS (STUD/CMU).
5. PROVIDE HOUSEKEEPING PADS FOR ELECTRICAL AND MECHANICAL EQUIPMENT. VERIFY SIZE AND LOCATION WITH ELECTRICAL, PLUMBING, AND HVAC INSTALLERS AND MANUFACTURERS.
- FOR SOUND TRANSFER CONTROL, FILL STUD WALLS WITH SOUND ATTENUATION BLANKETS. INSTALL BATT INSULATION ON ALL CEILING AROUND PERIMETER OF ROOMS EXTENDING 2'-0" FROM ALL INTERIOR WALLS UNLESS NOTED OTHERWISE IN REFLECTED CEILING PLAN NOTES.
- GYPSUM BOARD EXPANSION JOINTS SHALL BE LOCATED 30'-0" O.C. MAXIMUM. VERIFY LOCATIONS WITH ARCHITECT. LOCATE ABOVE DOOR HEADS WHERE POSSIBLE.
- FIELD VERIFY ALL DIMENSIONS FOR HANDRAILS, EQUIPMENT, ETC. PRIOR TO FABRICATION AND INSTALLATION.
- PROVIDE WOOD FOR BLOCKING WHERE BLOCKING IS REQUIRED, WHERE BLOCKING CONTACTS METAL FRAME, STUDS, ETC. SEPARATE WITH BUILDING FELT TO AVOID REACTIONS BETWEEN WOOD AND METALS.
- ALL FIRE WALLS AND BARRIERS SHALL BE MARKED WITH SIGNAGE READING: "FIRE AND/OR SMOKE BARRIER- PROTECT ALL OPENINGS" ACCORDING TO 2021 ARKANSAS FIRE PREVENTION CODE SECTION 703.7. ALL PENETRATIONS SHALL BE PROTECTED BY AN APPROVED THROUGH-PENETRATION FIRESTOP SYSTEM IN ACCORDANCE WITH UL 1479.



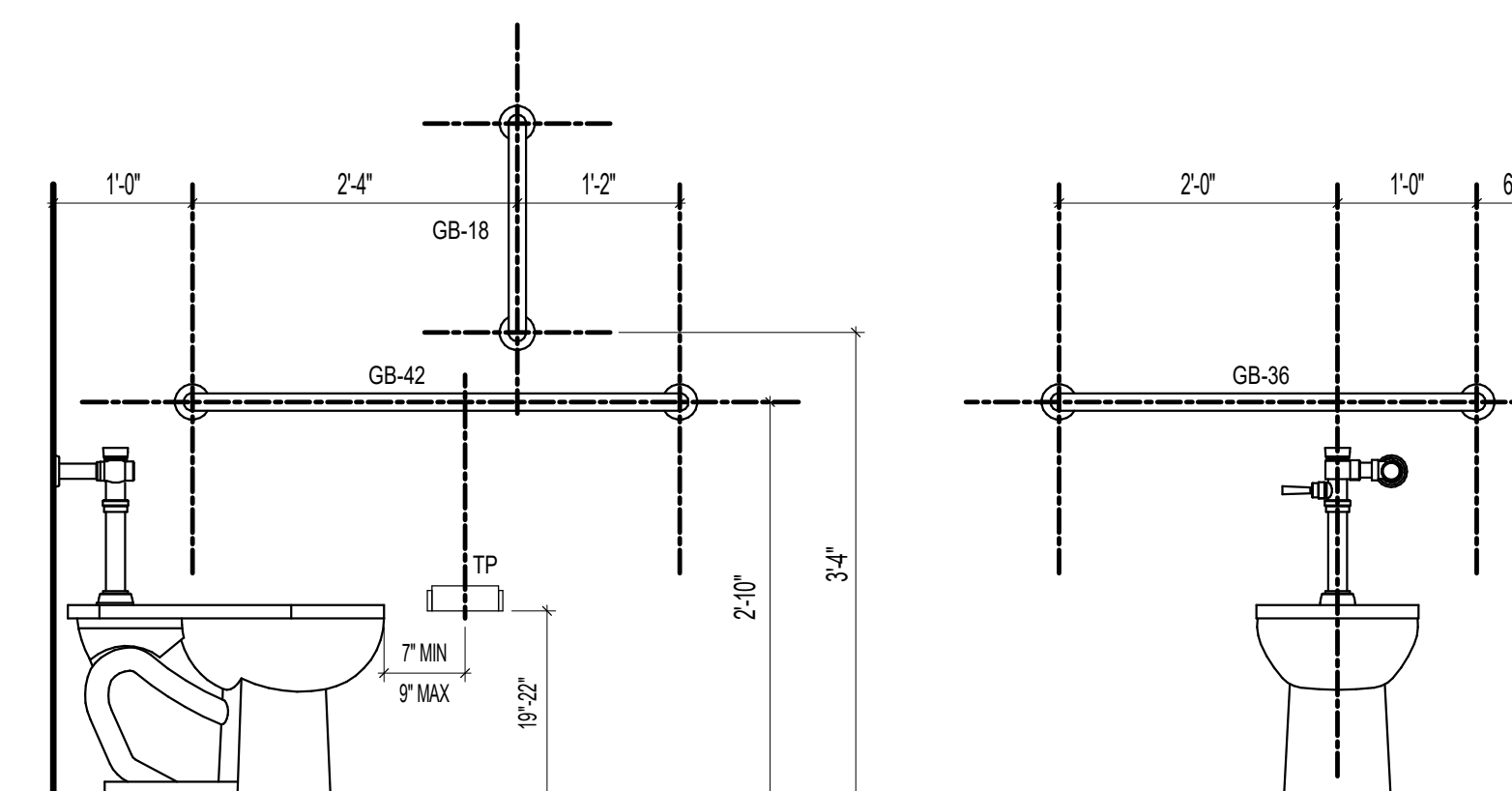
NORTH
1
A2.0
1/8" = 1'-0"

FLOOR PLAN

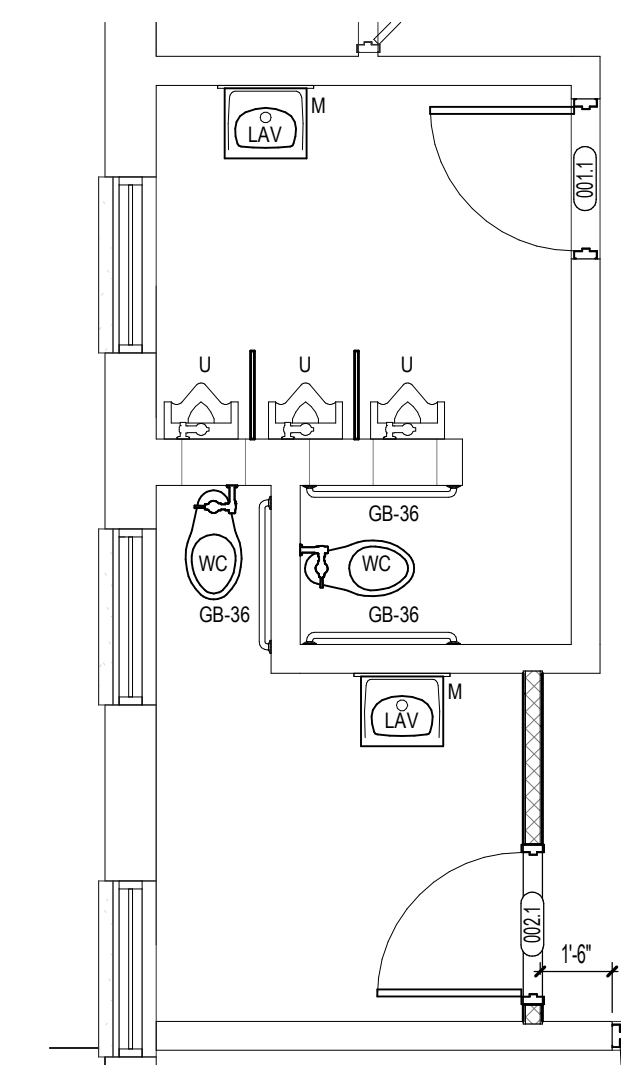
TOILET ACCESSORY SCHEDULE		
MARK	DESCRIPTION	MOUNTING HEIGHT
GB-36	GRAB BAR - 36"	34" A.F.F. to CENTERLINE
GB-42	GRAB BAR - 42"	34" A.F.F. to CENTERLINE
GB-18	VERTICAL GRAB BAR - 18"	40" A.F.F. to BASE
GB-2W	GRAB BAR - 2 WALL	34" A.F.F. to CENTERLINE
GB-3W	GRAB BAR - 3 WALL	34" A.F.F. to CENTERLINE
S	SINK - COUNTER MOUNTED	
CH	COAT HOOK	54" A.F.F.
HCCH	H.C. COAT HOOK	44"-48" A.F.F.
HCWC	H.C. WATER CLOSET	17" A.F.F. to SEAT
WC	WATER CLOSET	15" A.F.F. to SEAT
U	URINAL	24" A.F.F. to RIM
LAV	LAVATORY - WALL MOUNTED	34" A.F.F. to RIM
EWC	ELECT. WATER COOLER w/ BOTTOM FILLER	42" to SPOUT / 36" to SPOUT @ ADA
M	MIRROR	24" X36" - 40" A.F.F. to BOTTOM OF REFLECTIVE SURFACE
1.	TOILET PAPER AND SOAP DISPENSERS ARE TO BE PROVIDED BY THE OWNER. TOILET PAPER DISPENSER ARE TO BE INSTALLED NO LOWER THAN 19" AFF. THE OPERATION AND SPOOT PORTION OF SOAP DISPENSERS SHALL BE INSTALLED AT 44" AFF. CONTRACTOR TO COORDINATE AND VERIFY	



4
A2.1 LAVATORY COUNTER DETAIL, TYPICAL
1 1/2" = 1'-0"



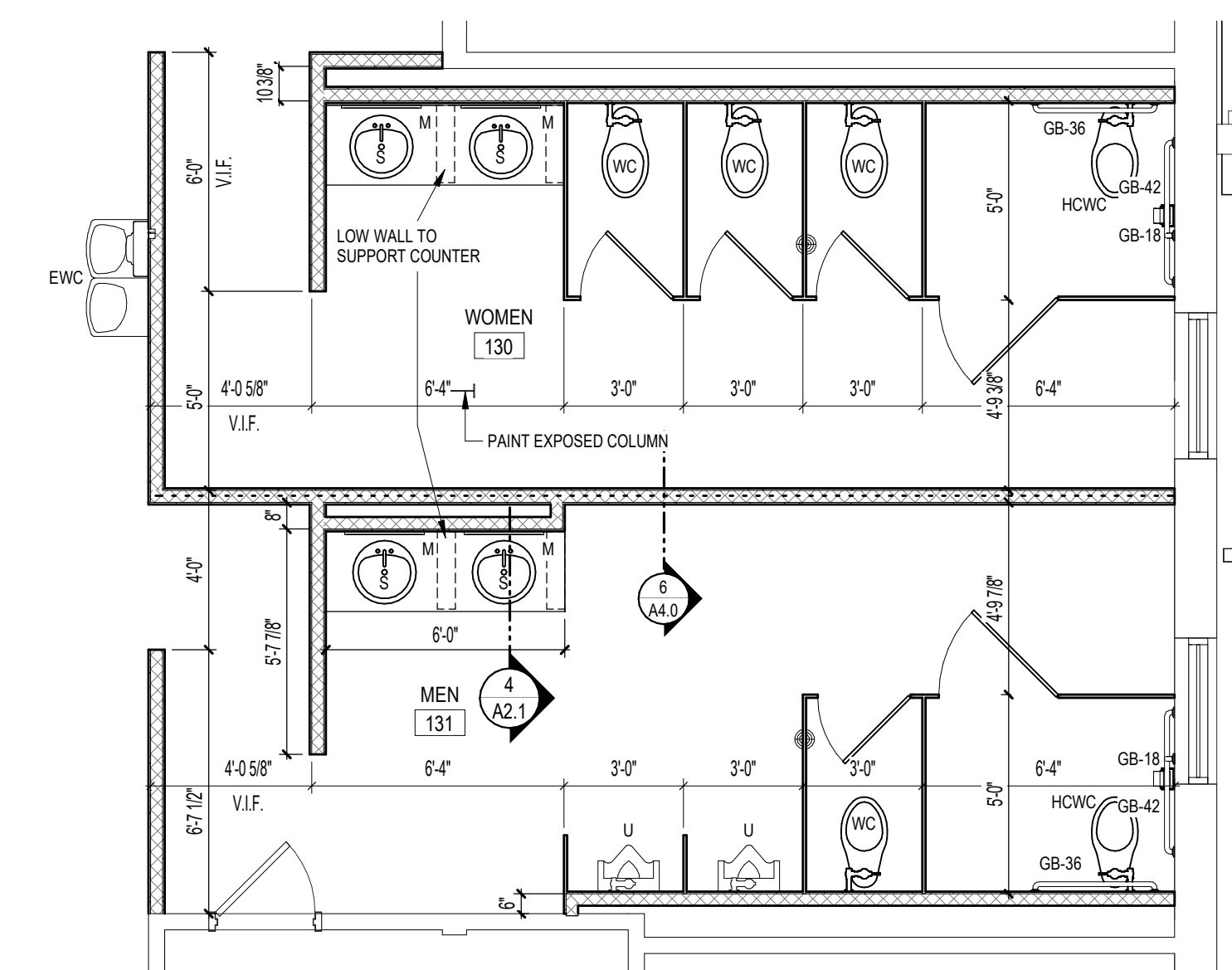
3 GRAB BAR ELEVATIONS



2
A2.1

ENLARGED PLAN

1/4" = 1'-0"



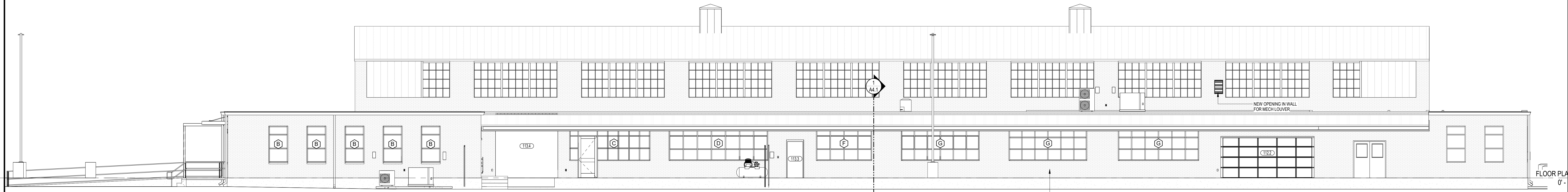
1
A2.1

ENLARGED PLAN

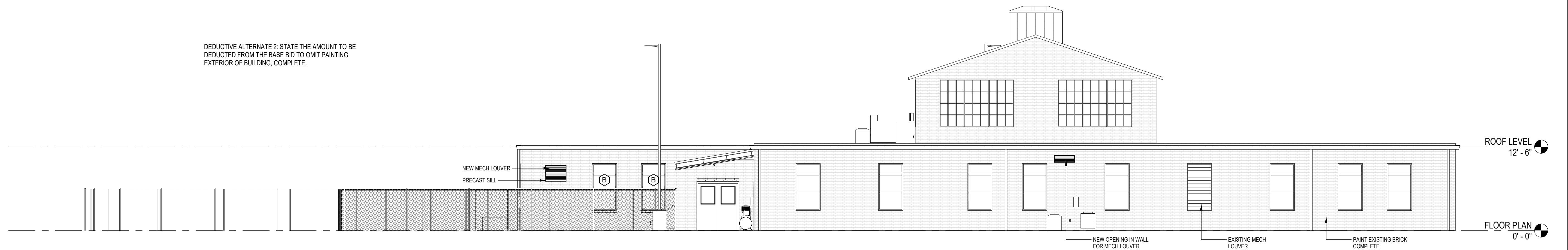
1/4" = 1'-0"



1 WEST ELEVATION
A3.0 1/8" = 1'-0"



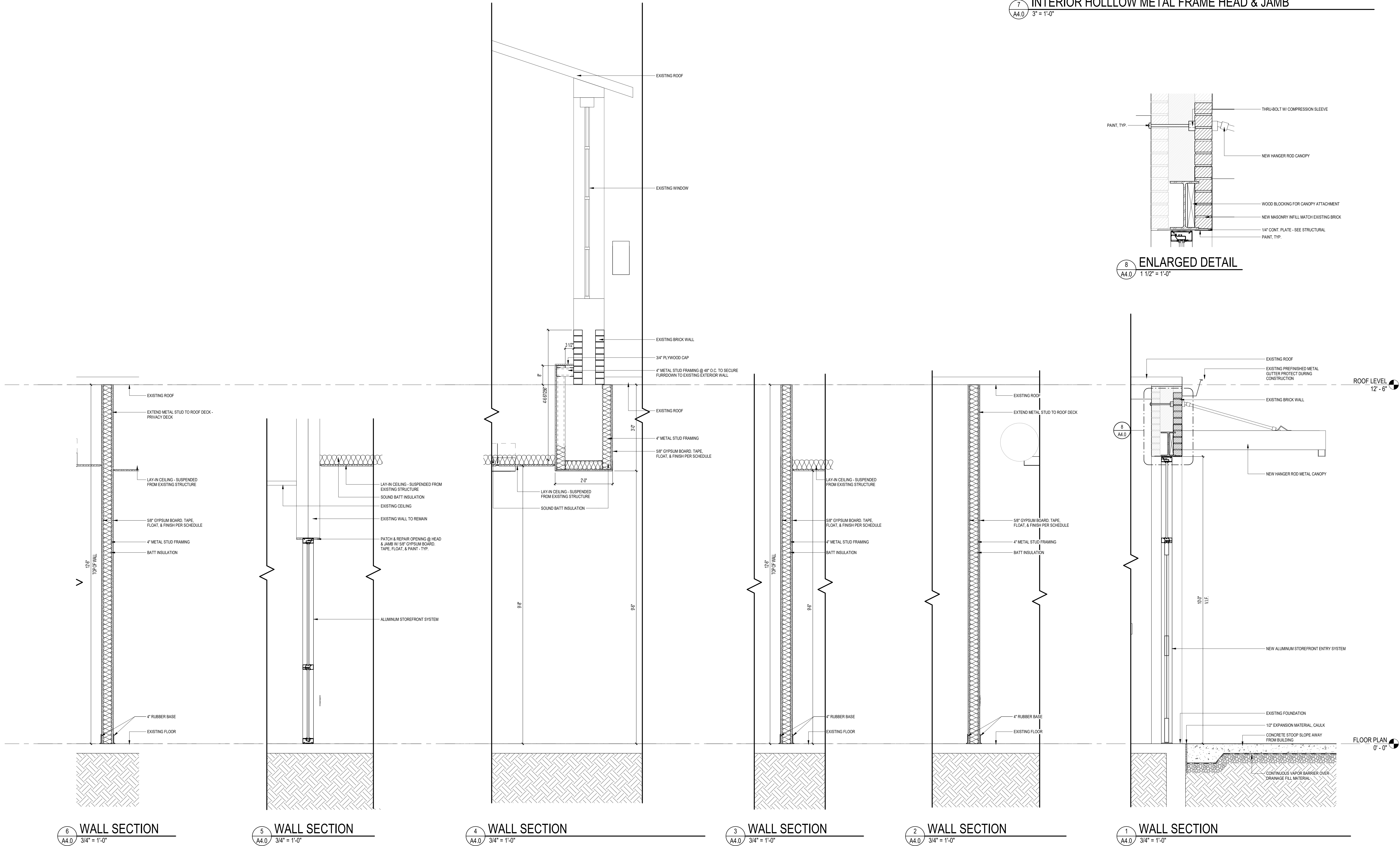
2 EAST ELEVATION
A3.0 1/8" = 1'-0"

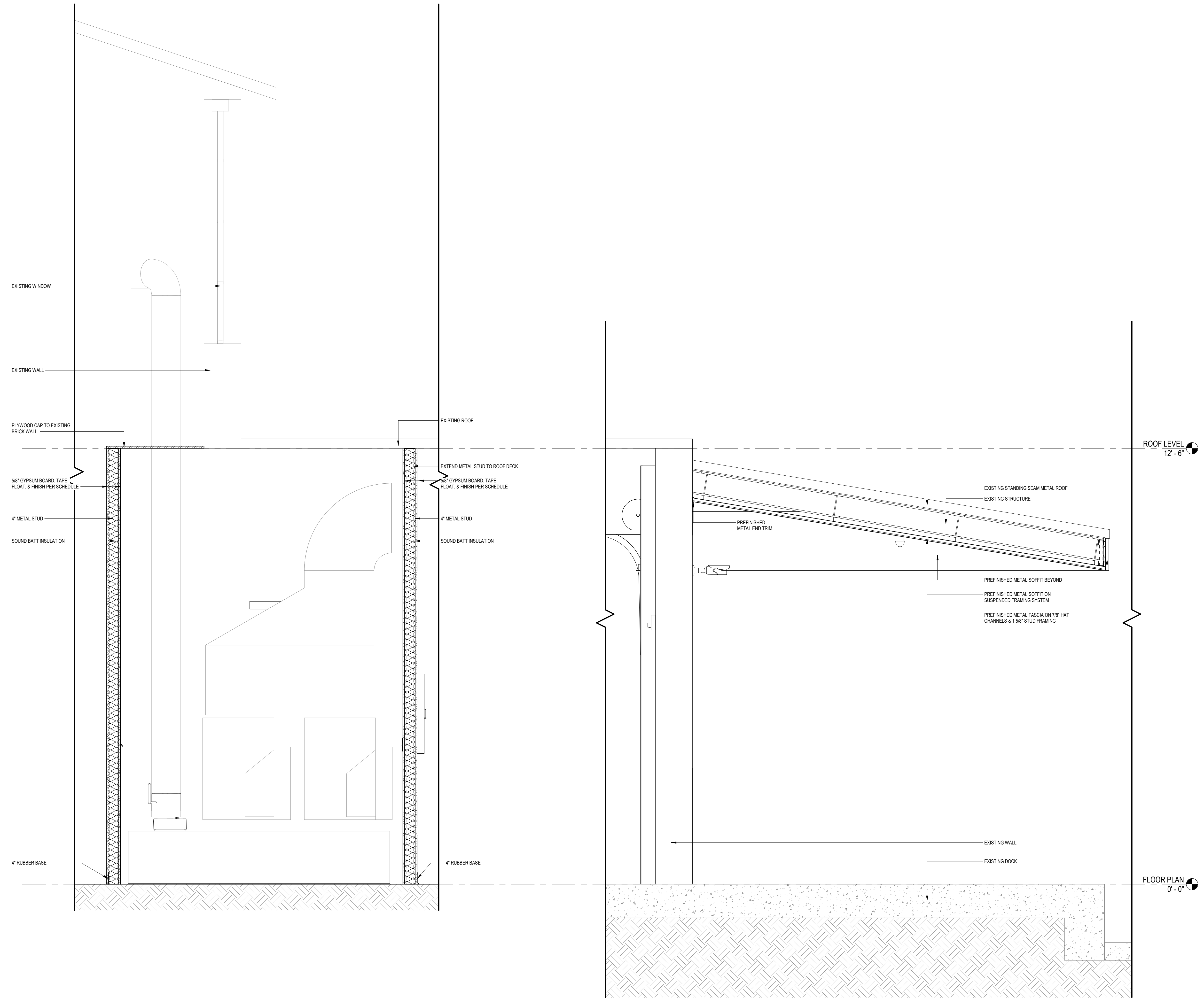


3 NORTH ELEVATION
A3.0 1/8" = 1'-0"



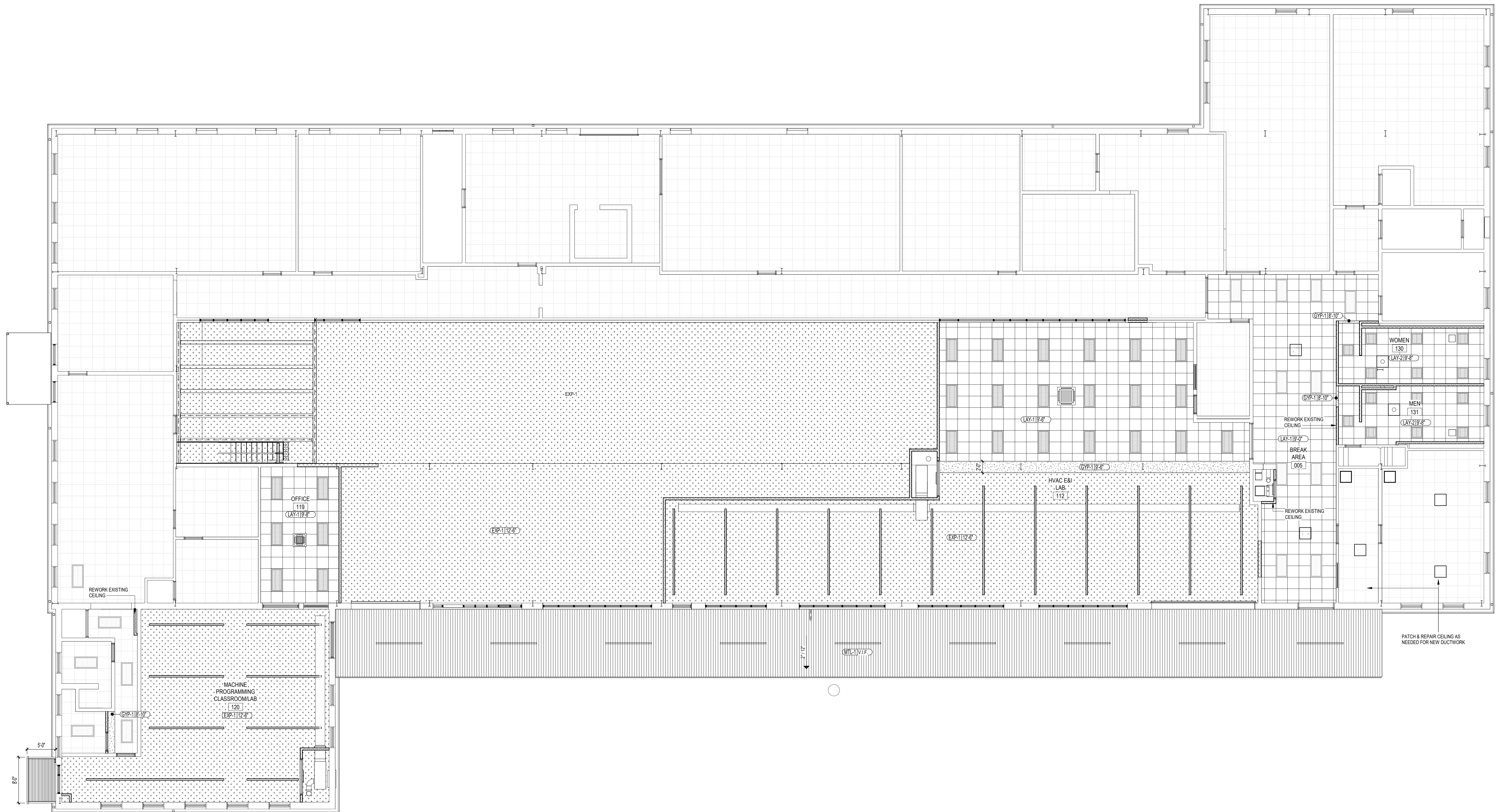
4 SOUTH ELEVATION
A3.0 1/8" = 1'-0"





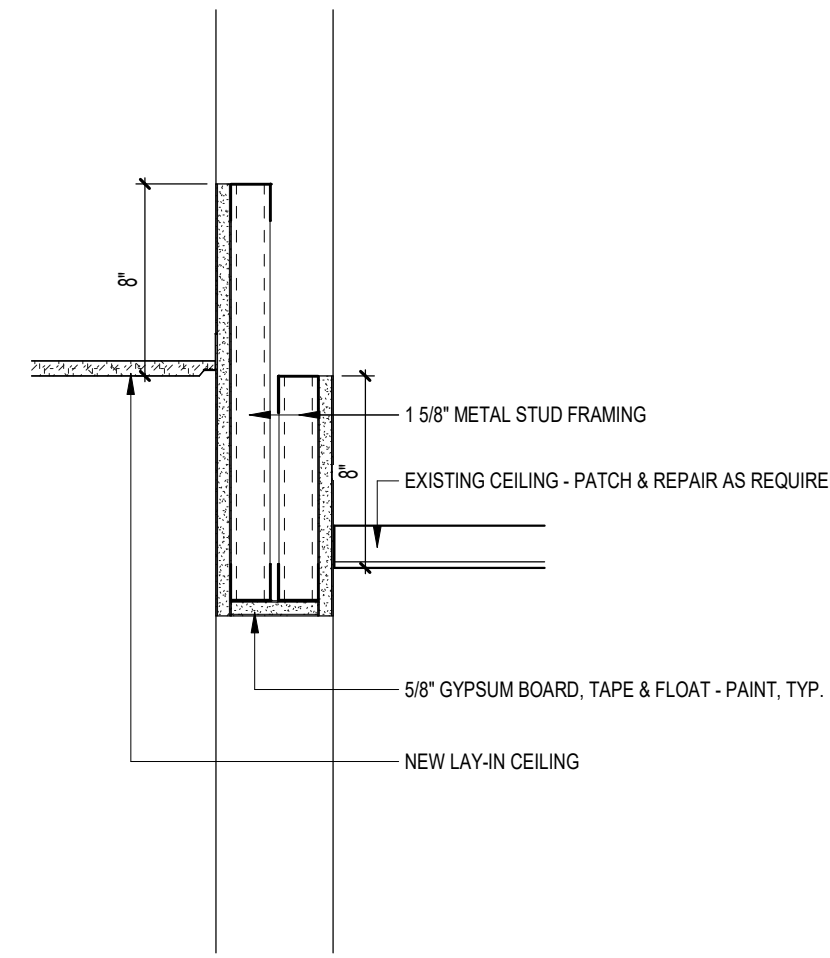
2 WALL SECTION
A4.1 3/4" = 1'-0"

1 WALL SECTION
A4.1 3/4" = 1'-0"



1 REFLECTED CEILING PLAN - FLOOR PLAN
A5.0 1/8" = 1'-0"

2 ENLARGED DETAIL
A5.0 1 1/2" = 1'-0"

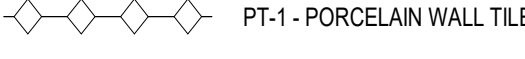


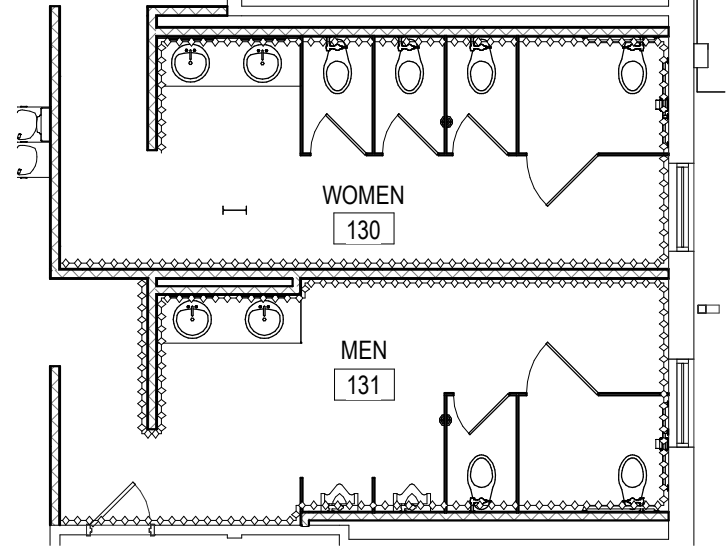
REFLECTED CEILING LEGEND

2x2 LAY-IN CEILING SYSTEM	
	2x4 LAY-IN FIXTURE
	2x2 LAY-IN FIXTURE
	CAN LIGHT FIXTURE
	CEILING DIFFUSER
	CEILING DIFFUSER
	RETURN AIR GRILLE
	EXHAUST FAN
	CEILING CASSETTE
	PYRAMIDAL SOUND DIFFUSER
	LINEAR SLOT DIFFUSER
	GYPSUM BOARD
	PREFINISHED METAL SOFT SYSTEM - MTL-1
	EXPOSED STRUCTURE - DRYFALL PAINT

GENERAL CEILING NOTES

- ALL PLUMBING PIPING, ELECTRICAL CONDUITS, MECHANICAL DUCTWORK, ETC. SHALL BE CONCEALED ABOVE CEILINGS, BELOW SLAB, OR WITHIN WALLS AND FURRING WHEREVER POSSIBLE (UNLESS SPECIFICALLY SHOWN OR NOTED OTHERWISE). ALL PIPING, CONDUITS, DUCTWORK, ETC. EXPOSED SHALL BE INSTALLED IN A WORKMAN LIKE MANNER LEVEL, PLUMB, SQUARE AND PROPERLY SUPPORTED). COORDINATE ALL TRADES TO AVOID CONFLICTS.
- ALL EXPOSED STRUCTURE, PIPING, CONDUITS, DUCTWORK, ETC. THAT IS NOT PREFINISHED SHALL BE PAINTED (UNLESS NOTED OTHERWISE), COLORS TO BE SELECTED BY THE ARCHITECT.
- ALL PIPING, CONDUIT, DUCTWORK, CEILING GRID, ETC. SHALL BE PROPERLY SUPPORTED AND BRACED TO MEET APPLICABLE SEISMIC ZONE REQUIREMENTS.
- PROVIDE SOUND ATTENUATION BATTS 2'-0" ON BOTH SIDES OF ADJACENT WALLS
- PROVIDE SOUND ATTENUATION BATTS OVER ENTIRE CEILINGS AT ROOM 112
- AT GYPSUM CEILINGS, PROVIDE CONTROL JOINTS (CJ) AT 30'-0" OR LOCATIONS SHOWN ON PLANS

FINISH LEGEND	
WALL FINISHES	
	PT-1 - PORCELAIN WALL TILE
GENERAL NOTE: IF A ROOM DOES NOT SHOW A LINE PATTERN AS ABOVE, REFER TO THE FINISH SCHEDULE FOR WALL MATERIAL.	

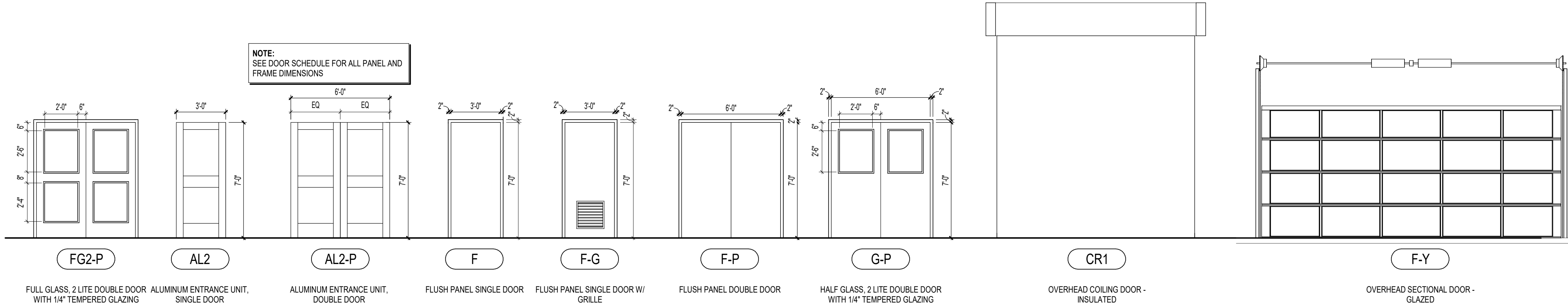


3
A6.0
FLOOR PLAN - TILE EXTENTS
1/8" = 1'-0"

MATERIAL KEY			
FLOOR	MARK	DESCRIPTION	
	SC-1	SEALED CONCRETE	
	LVT-1	LUXURY VINYL TILE	
	EPX-1	EPOXY RESINOUS FLOORING	
BASE	MARK	DESCRIPTION	
	RB-1	RUBBER BASE	
	EPXB-1	EPOXY RESINOUS BASE	
	NONE	NO BASE	
CEILING	MARK	DESCRIPTION	
	LAY-1	ACOUSTICAL TILES	
	GYP-1	GYPSUM BOARD - PAINT FLAT	
	EXP-1	EXPOSED STRUCTURE - PAINT	
WINDOW SHADE	MARK	DESCRIPTION	
	MWS-1	MANUAL WINDOW SHADE	
	NONE	NO WINDOW SHADE	
REMARKS			
1. ALL LOCATIONS RECEIVING WALL TILE, CONTRACTOR TO INCLUDE INSTALLATION OF SCHLUTER TRIM FOR EXPOSED HORIZONTAL/VERTICAL EDGES AND EXTERIOR CORNERS.			
2. SEE 3/A6.0 FOR TILE EXTENTS.			
3. PATCH AND REPAIR AS CAUSED BY NEW CONSTRUCTION, REFINISH CORNER TO CORNER TO MATCH EXISTING.			
4. DEDUCTIVE ALTERNATE: OMIT EPOXY FLOORING AND PAINTING IN CAREER ACADEMY WELDING LAB ROOM 113 OF EXISTING STRUCTURE, BRICK WALLS, WALLS, COLUMNS, AND WELDING STATIONS.			

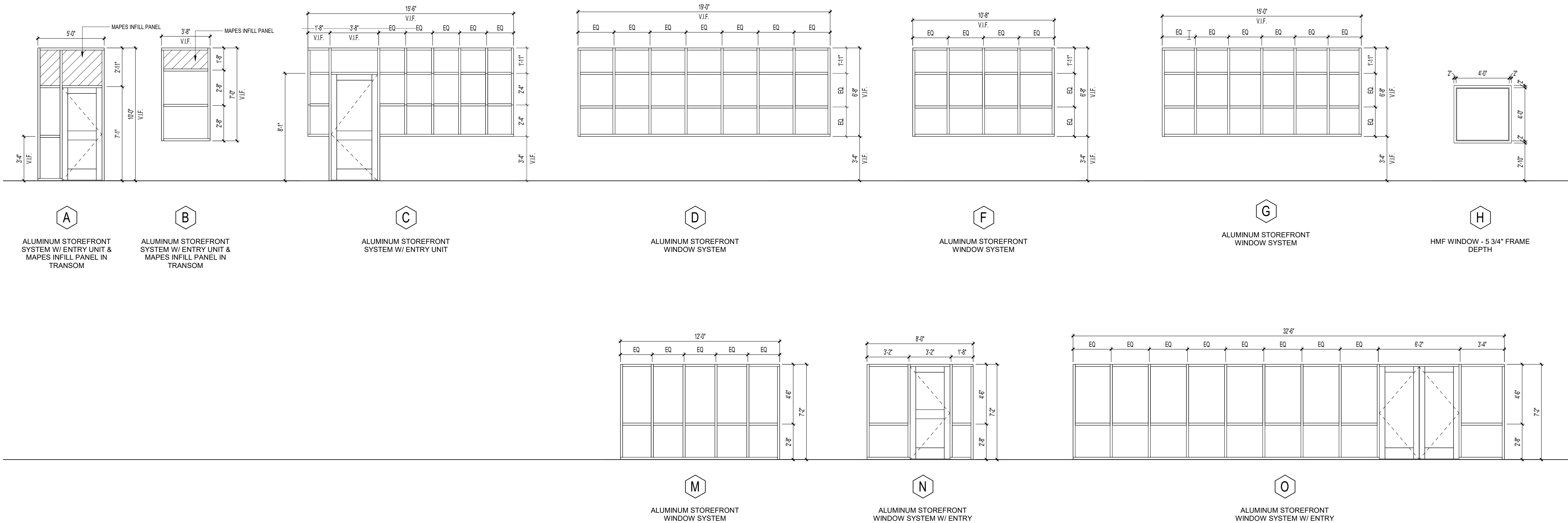
DOOR SCHEDULE												
MARK	HW SET	PANEL					FRAME					COMMENTS
		TYPE	WIDTH	HEIGHT	THICK.	MATERIAL	FINISH	MATERIAL	FINISH	DEPTH	HEAD	
001.1	801	F	3'-0"	7'-0"	1 3/4"	WOOD	MATCH EXISTING	HMF	PAINT	5 3/4"	2"	
002.1	341	F	3'-0"	7'-0"	1 3/4"	WOOD	MATCH EXISTING	HMF	PAINT	5 3/4"	2"	
112.1	710A	AL2-P	6'-0"	7'-0"	1 3/4"	ALUM.	SEE SPEC.	ALUM.	SEE SPEC.	4 1/2"	2"	
112.2	001	F-Y	18'-0"	10'-0"	2 1/8"							
112.3	103	FG	3'-0"	7'-0"	1 3/4"	WOOD	PRE-FINISH	HMF	PAINT	5 3/4"	4"	
113.1	701A	AL2	3'-0"	7'-0"	2"	ALUM.	SEE SPEC.	ALUM.	SEE SPEC.	4 1/2"	2"	
113.2	715A	AL2	3'-6"	8'-0"	2"	ALUM.	SEE SPEC.	ALUM.	SEE SPEC.	4 1/2"	2"	
113.3	715	F	3'-0"	7'-0"	1 3/4"	INSUL. METAL	PAINT	HMF	PAINT	5 3/4"	4"	
113.4	001	CR1	12'-0"	10'-0"	3"	<By Category>	PRE-FINISHED	-	-	-	-	
114.1	210S	F-P	6'-0"	7'-0"	1 3/4"	WOOD	PRE-FINISH	HMF	PAINT	5 3/4"	2"	
119.1	D800	FG2-P	6'-0"	7'-0"	1 3/4"	WOOD	PRE-FINISH	HMF	PAINT	5 3/4"	4"	DOUBLE ACTION
120.1	714	G-P	6'-0"	7'-0"	1 3/4"	INSUL. METAL	PAINT	HMF	PAINT	5 3/4"	4"	
120.2	701C	F	3'-0"	7'-0"	1 3/4"	WOOD	MATCH EXISTING	HMF	PAINT	5 3/4"	2"	
120.3	715A	AL2	3'-0"	7'-0"	2"	ALUM.	SEE SPEC.	ALUM.	SEE SPEC.	4 1/2"	2"	
121.1	210S	F-P	6'-0"	7'-0"	1 3/4"	WOOD	PRE-FINISH	HMF	PAINT	5 3/4"	2"	
122.1	201C	F-G	3'-0"	7'-0"	1 3/4"	WOOD	PRE-FINISH	HMF	PAINT	5 3/4"	2"	

NOTE: FIELD VERIFY FRAME OPENINGS AT EXISTING WALL CONSTRUCTION



2
A6.0
DOOR ELEVATIONS
1/4" = 1'-0"

NOTE: FIELD VERIFY FRAME OPENINGS AT EXISTING WALL CONSTRUCTION



1
A6.0
WINDOW & STOREFRONT ELEVATIONS
1/4" = 1'-0"

NOTE: FIELD VERIFY FRAME OPENINGS AT EXISTING WALL CONSTRUCTION

GENERAL CONCRETE NOTES:

1. AMERICAN CONCRETE INSTITUTE SPECIFICATIONS SHALL GOVERN ALL PHASES OF CONCRETE CONSTRUCTION.
2. CONCRETE PLACEMENT SHALL BE AS NOTED IN THE CONCRETE PLACEMENT SCHEDULE BELOW. SEE SPECIFICATIONS FOR MIX DESIGN REQUIREMENTS.
3. ALL REINFORCING STEEL SHALL BE GRADE 60.
4. GENERAL CONTRACTOR SHALL VERIFY ALL CONCRETE DIMENSIONS, INSERTS, SLEEVES, AND OPENINGS WITH ALL TRADES BEFORE PLACING CONCRETE. ALL SLEEVES FOR CONDUIT, OR OTHER INSERTS SHALL BE PLACED PRIOR TO CONCRETE. NO CONCRETE SHALL BE BROKEN OUT TO PLACE ELECTRICAL, MECHANICAL, OR SIMILAR ITEMS WITHOUT THE PERMISSION OF THE ARCHITECT.
5. VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO PLACING ANY CONCRETE. IF THERE ARE DISCREPANCIES BETWEEN THE PLANS AND EXISTING CONDITIONS, CONTACT THE ARCHITECT BEFORE COMMENCING WITH WORK.
6. CONCRETE PLACEMENT FOR SLABS SHALL BE CLOSELY COORDINATED WITH WEATHER CONDITIONS TO PREVENT RAPID MOISTURE LOSS OR TEMPERATURE SWINGS. ADEQUATE WIND BREAKS AND COLD/HOT WEATHER PROTECTION SHALL BE PROVIDED TO MAINTAIN ACCEPTABLE TEMPERATURES AT ALL TIMES DURING CURING.
7. 2 WEEKS PRIOR TO PLACING ANY EXPOSED CONCRETE SLABS, THE CONCRETE FINISHER, THE CONCRETE SUPPLIER, ARCHITECT'S REPRESENTATIVE, AND CONTRACTOR SHALL MEET TO DISCUSS MIX DESIGN, ADEQUATE PROTECTION, CURING, SIZE OF SLAB PLACEMENTS, ETC.
8. EXPOSED WALLS AND SLABS SHALL BE REVIEWED FOR CRACKING DETRIMENTAL TO FINISH. SLABS/WALLS TO BE EXPOSED TO VIEW MAY REQUIRE REMOVAL IF THEY ARE DAMAGED OR CRACKING OCCURS THAT WILL BE DETRIMENTAL TO THE FINISH/APPEARANCE OF THE FINAL PRODUCT.

CONCRETE PLACEMENT SCHEDULE	
CONCRETE MIX TYPE	PLACEMENT
4,000 PSI WITH AIR-ENTRAINMENT	EXTERIOR RETAINING WALLS, EXTERIOR PAVING, CURBS, SIDEWALKS, STEPS, PADS
4,000 PSI NO AIR-ENTRAINMENT	INTERIOR FLOOR SLABS
3,000 PSI NO AIR-ENTRAINMENT	FOOTINGS
3,000 PSI MASONRY FILL/GROUT NO AIR-ENTRAINMENT	REINFORCED CELLS

SPECIAL INSPECTIONS:

- SPECIAL INSPECTIONS ARE REQUIRED FOR STRUCTURAL SYSTEM, AND STRUCTURAL COMPONENTS AS FOLLOWS:
1. REFER TO BLOCK REINFORCING NOTES FOR MASONRY INSPECTIONS
 2. REFER TO FOUNDATION NOTES FOR EARTHWORK & BEARING STRATA INSPECTIONS.

GENERAL FRAMING NOTES:

1. BRACE AND GUY UNTIL ALL FINAL CONNECTIONS ARE MADE.
2. ALL STRUCTURAL STEEL MEMBERS SHALL MEET THE FOLLOWING CRITERIA:
 - A. WIDE FLANGE SHAPES - Fy=50 ksi, CONFORM TO ASTM A-992.
 - B. ANGLES, CHANNELS & ROUND BARS - Fy=50 ksi, CONFORM TO ASTM A572.
 - C. PLATES LESS THAN 1/2" THICK-Fy=36 ksi, CONFORM TO ASTM A-36.
 - D. PLATES 1/2" THICK & GREATER & BARS - Fy=50 ksi, CONFORM TO ASTM A-572.
 - E. HSS TUBING - Fy=50 ksi, CONFORM TO ASTM A-500 GRADE C.
 - F. HSS ROUND PIPE - Fy=46 ksi, CONFORM TO ASTM A-500 GRADE C.
3. AMERICAN INSTITUTE OF STEEL CONSTRUCTION SPECIFICATIONS SHALL GOVERN ALL PHASES OF STEEL CONSTRUCTION.
4. ALL WELDING IN ACCORDANCE WITH A.W.S REQUIREMENTS FOR E70XX ELECTRODES.
5. ALL BOLTS SHALL BE 3/4" DIA. A325N, UNO.
6. BEAR STEEL ANGLE LINTELS 8" EACH SIDE OF OPENING UNO.
7. WHEN WELDING OR USING A TORCH IN OR AROUND EXISTING BUILDINGS OR FINISHED AREAS (FINISHED ROOMS, ATTICS, ON ROOFS, ETC.) PROVIDE FIRE BLANKETS, FIRE WATCHES, ETC. TO PREVENT FIRES OR FIRE DAMAGE.
8. ADHESIVE ANCHORS (AA)
 - a. IN MASONRY: HILTI HY-270 (OR EQUAL) WITH PLASTIC SCREEN TUBES WHERE WALLS ARE HOLLOW.
 - b. IN CONCRETE: HILTI HIT-HY 200 V3 OR HILTI HIT-RE 500 V3 (OR EQUAL).
 - c. INSTALL PER MANUFACTURER'S RECOMMENDATIONS
9. POWDER ACTUATED FASTENERS (PAF)
 - a. 131° DOME HEAD NAIL BY HILTI (OR EQUAL)
 - b. INSTALL INTO STEEL OR CONCRETE PER MANUFACTURER'S RECOMMENDATIONS

WOOD FRAMING NOTES:

1. BRACE AND GUY UNTIL ALL FINAL CONNECTIONS ARE MADE.
2. TIMBER CONSTRUCTION MANUAL BY THE AMERICAN INSTITUTE OF TIMBER CONSTRUCTION SHALL GOVERN ALL PHASES OF DESIGN AND CONSTRUCTION.
3. MATERIALS:
 - WOOD MEMBERS IN CONTACT WITH CONCRETE SHALL BE PRESSURE TREATED.
 - DIMENSIONAL SAWN LUMBER
 - A. JOISTS, STRINGERS, & BLOCKING - NO. 2 SOUTHERN PINE OR BETTER
 - B. STUDS - SPRUCE PINE FIR - NO. 2 OR BETTER
4. REFER TO THE INTERNATIONAL BUILDING CODE 2021 (TABLE 2304.9.1) FOR MINIMUM REQUIREMENTS FOR NAILS AND NAILING FOR ALL CONNECTIONS, UNLESS DETAILED ON THE DRAWINGS OTHERWISE.

BLOCK REINFORCING NOTES:

GENERAL NOTES:

1. MASONRY SHALL MEET THE REQUIREMENTS OF THE SPECIFICATION FOR MASONRY STRUCTURES - TMS 402/606-16.
2. ALL MASONRY SHALL BE INSPECTED AS PER THE LEVEL 2 QUALITY OF ASSURANCE AS SET FORTH IN TMS 402/606-16.
3. GROUTING OF VERTICAL CELLS SHALL MEET THE REQUIREMENTS OF THE SPECIFICATION FOR MASONRY STRUCTURES AS SET FORTH IN TMS 402/606-16.
4. COMPRESSIVE STRENGTH FOR MASONRY (F'm) SHALL BE 2,000 PSI. ALL MASONRY SHALL BE RUNNING BOND WITH TYPE 'N' MORTAR.
5. ALL VERTICAL CELLS WITH REINFORCING AND BOND BEAMS SHALL BE FILLED WITH MASONRY GROUT WITH A COMPRESSIVE STRENGTH OF 3,000 PSI AT 28 DAYS.
6. SEE DETAILS 9 & 10/S2.1 FOR LINTEL @ NEW ENTRY

FOUNDATION NOTES:

1. GENERAL CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCING WORK. REPORT DISCREPANCIES BETWEEN DRAWINGS AND SITE CONDITIONS TO ARCHITECT FOR COORDINATION.
2. ALL EXISTING UNDERGROUND UTILITIES, FOUNDATIONS, ETC. SHALL BE REMOVED FROM THE AREA OF THE BUILDING PAD. BACKFILL EXCAVATIONS WITH COMPACTED SELECT FILL AS DIRECTED BY GEOTECHNICAL ENGINEER AND PLACE PER NOTE 5 BELOW.
3. AFTER STRIPPING ORGANICS AND PAVEMENTS FROM LOCATIONS OF NEW ENTRY SLAB AND PRIOR TO PLACING ANY FILL MATERIALS, THE SUBGRADE SHALL BE APPROVED BY GEOTECHNICAL ENGINEER. SOFT AREAS SHALL BE REMOVED AND REPLACED AS DIRECTED BY THE GEOTECHNICAL ENGINEER. NOTIFY ARCHITECT PRIOR TO PERFORMING UNDERCUTTING.
4. AT LOCATIONS WHERE NEW UTILITY, ELECTRICAL, OR PLUMBING TRENCHES ARE LOCATED BELOW THE FOOTING AND WITHIN 5 FEET OF THE EDGE OF THE FOOTING, OR BELOW THE FOOTING, TRENCHES SHALL BE BACKFILLED IN LIFTS, COMPACTED, AND TESTED PER NOTE 5.
5. ALL COMPACTED FILL SHALL BE PLACED IN 6-8 INCH LOOSE LIFTS AND COMPACTED TO AT LEAST 95% OF THE MAXIMUM MODIFIED PROCTOR (ASTM D-1557). FILL SOILS SHALL CONSIST OF LOW-PLASTICITY, NON-EXPANSIVE SOILS HAVING A LIQUID LIMIT LESS THAN 40 AND A PLASTICITY INDEX LESS THAN 15. FILL SOILS SHALL BE SELECT CLAYEY SAND (SC), SANDY CLAY (CL), OR CLAY GRAVEL (GC). THE GEOTECHNICAL ENGINEER SHALL APPROVE ALL MATERIAL TO BE USED FOR FILL OR BACKFILL MATERIAL PRIOR TO PLACING EACH LIFT. THE PREVIOUS LIFT SHALL BE TESTED AND APPROVED BY GEOTECHNICAL ENGINEER.
6. FLOOR SLABS SHALL BEAR ON A MINIMUM 4" OF WASHED GRAVEL. VAPOR BARRIER (SEE SPECIFICATION 07 26 16) SHALL BE PLACED DIRECTLY BENEATH THE SLAB ON GRADE.
7. FOOTINGS SHALL BEAR ON APPROVED NATURAL NON EXPANSIVE NON-ORGANIC MATERIAL OR ON COMPACTED ENGINEERED FILL. SOILS SHALL BE CAPABLE OF SUPPORTING ALLOWABLE BEARING PRESSURES OF 1500 PSF ALLOWABLE BEARING CAPACITY. ALL BEARING STRATA SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT OF REINFORCING.
8. THE GENERAL CONTRACTOR SHALL HIRE A GEOTECHNICAL ENGINEER TO PERFORM OBSERVATION AND TESTING OF ALL EARTHWORK AND FOUNDATION BEARING STRATA. BEARING STRATA SHALL BE CAPABLE OF NOT MORE THAN 1/2" DIFFERENTIAL SETTLEMENT BASED ON THE BEARING CAPACITY NOTED ABOVE.

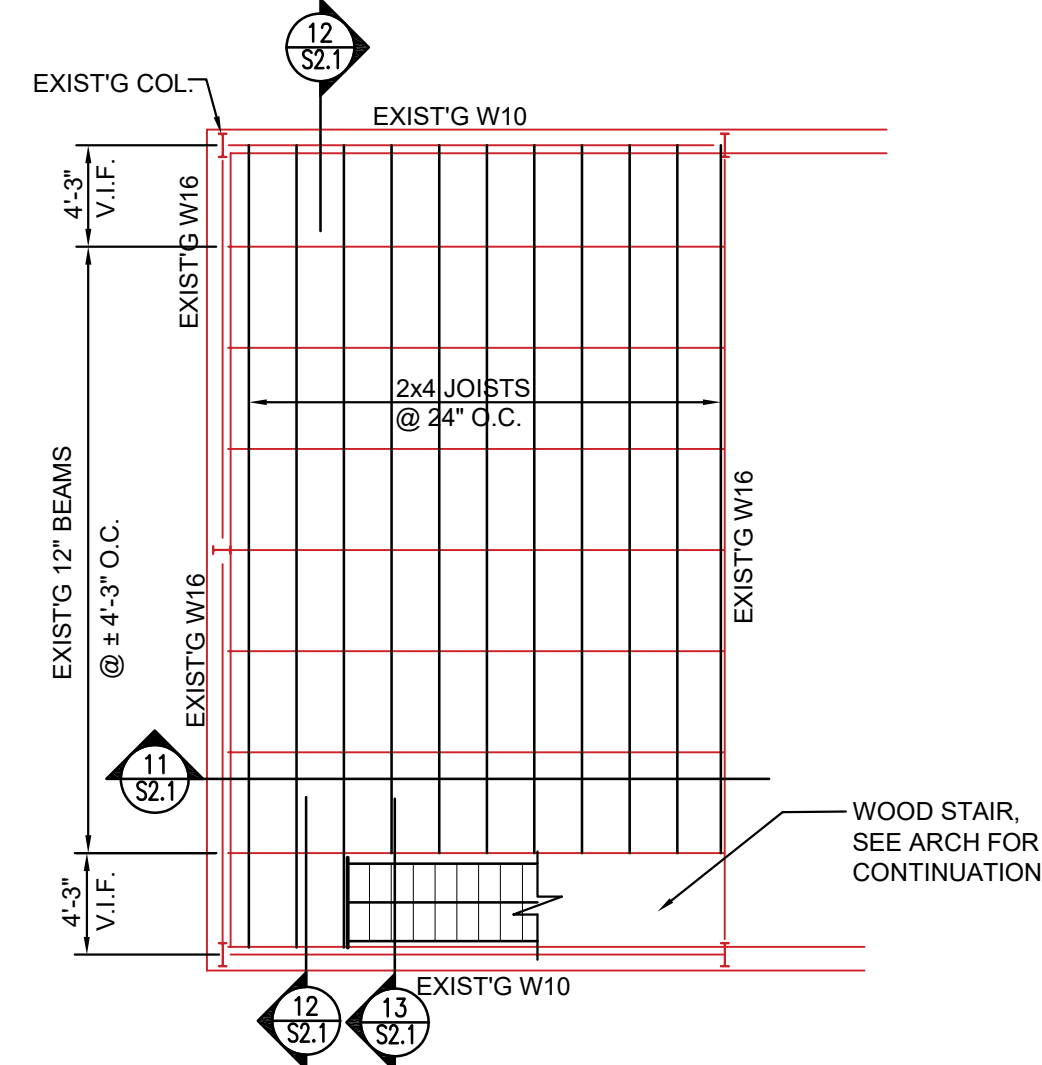
BUILDING DESIGN LOADS:

THE FOLLOWING LOADS AS PER IBC 2021 AND THE LATEST EDITION OF THE ARKANSAS FIRE PREVENTION CODE

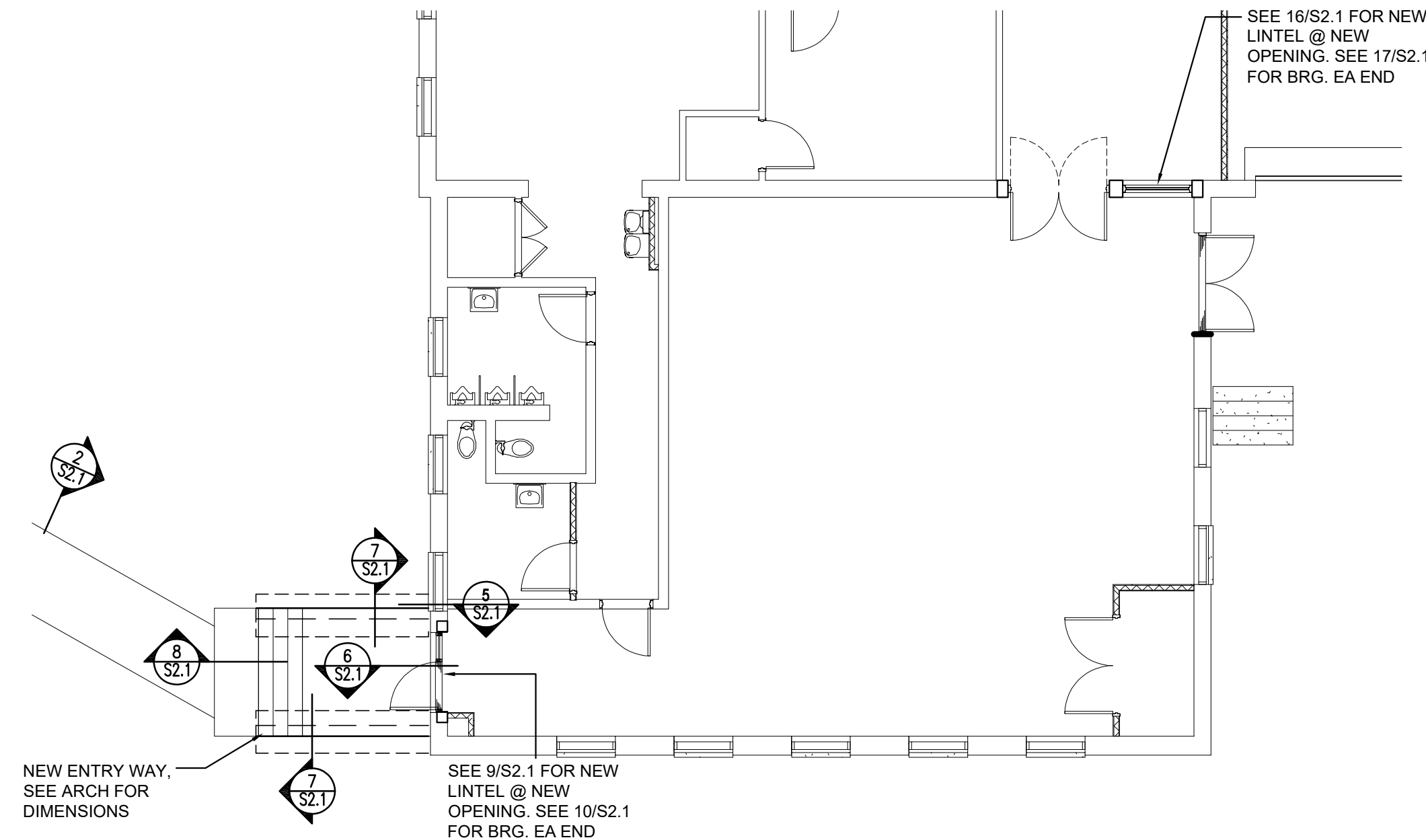
1. GRAVITY LOADS:
 - a. MEZZANINE FLOOR:
 - UNIFORM DEAD = 15 PSF
 - UNIFORM LIVE = 40 PSF
2. CONSTRUCTION LOADS (SCISSORS LIFTS, FORKLIFTS, ETC.) SUPPORTED BY SLABS-ON-GRADE AND STRUCTURAL SLABS SHALL BE ANALYZED BY AN INDEPENDENT STRUCTURAL ENGINEER. THE COST OF THE ANALYSIS SHALL BE PAID FOR BY THE CONTRACTOR. THE ANALYSIS SHALL BE SUBMITTED TO THE ENGINEER OF RECORD FOR APPROVAL. HOWEVER, ENGINEER OF RECORD IS NOT RESPONSIBLE SHOULD DAMAGE TO THE SLAB OR STRUCTURE OCCUR.

STRUCTURAL LEGEND:

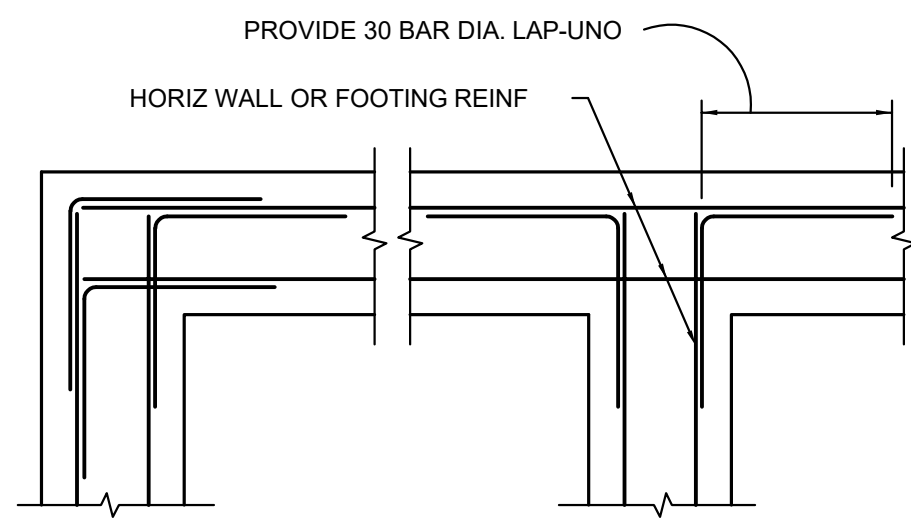
AA	ADHESIVE ANCHOR - SEE GENERAL FRAMING NOTES
AFF	ABOVE FINISHED FLOOR
BL	BUILDING LINE
BRG	BEARING
CLR	CLEAR
EJ	EXPANSION JOINT
EQ	EQUAL
EW	EACH WAY
FF	FINISHED FLOOR
FG	FINISHED GRADE
HS	HEADED STUD
LG	LONG
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
O.C.	ON CENTER
PAF	POWDER ACTUATED FASTENER - SEE GENERAL FRAMING NOTES
SM	SIMILAR
TOS	TOP OF STEEL
UNO	UNLESS NOTED OTHERWISE
VF	VERIFY IN FIELD
WWF	WELDED WIRE FABRIC



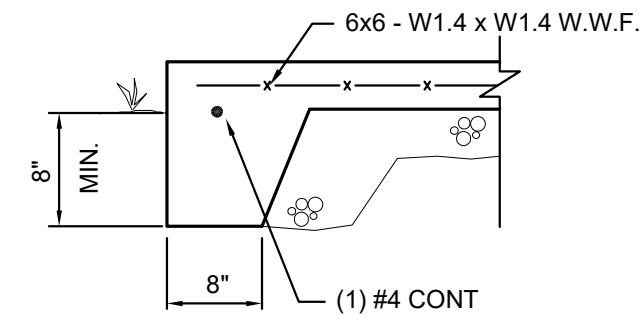
MEZZANINE FRAMING PLAN
SCALE: 1/8" = 1'-0"



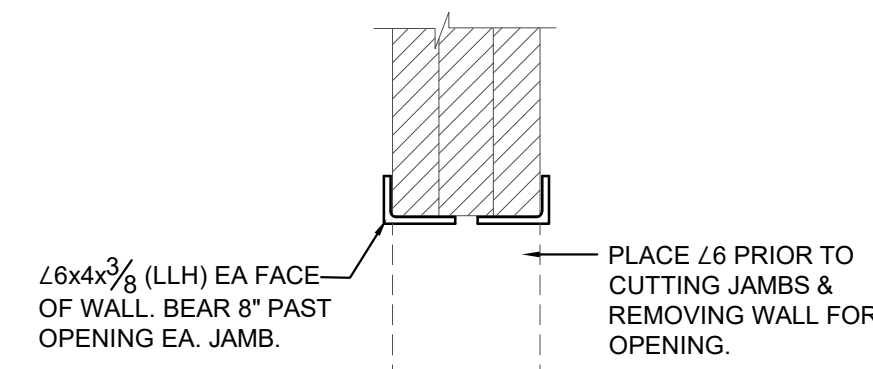
FOUNDATION PLAN @ NEW ENTRY
SCALE: 1/8" = 1'-0"



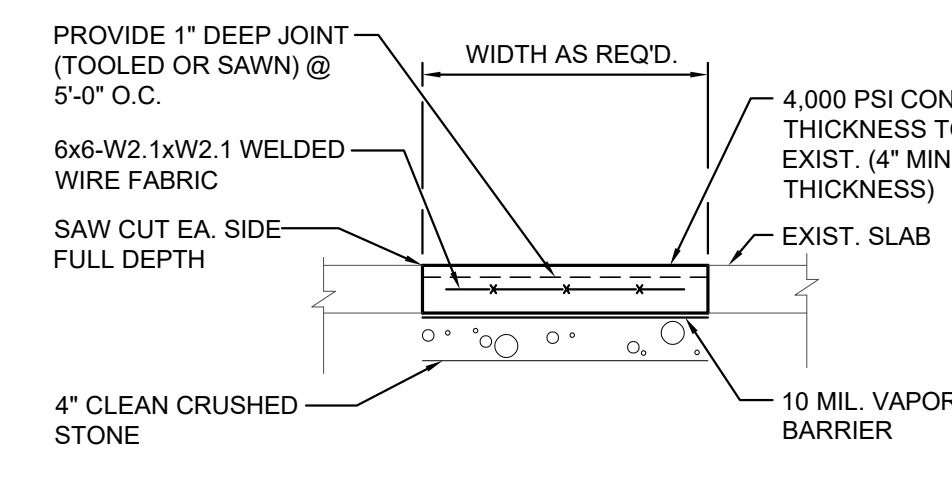
1 TYP. WALL OR FDN. INTERSECTION
S2.1 3/4"=1'-0"



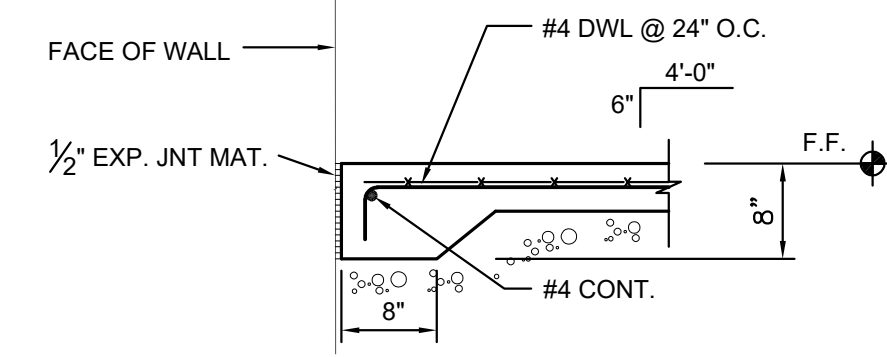
2 TYP. EDGE OF CONC. PADS & SIDEWALKS
S2.1 3/4"=1'-0"



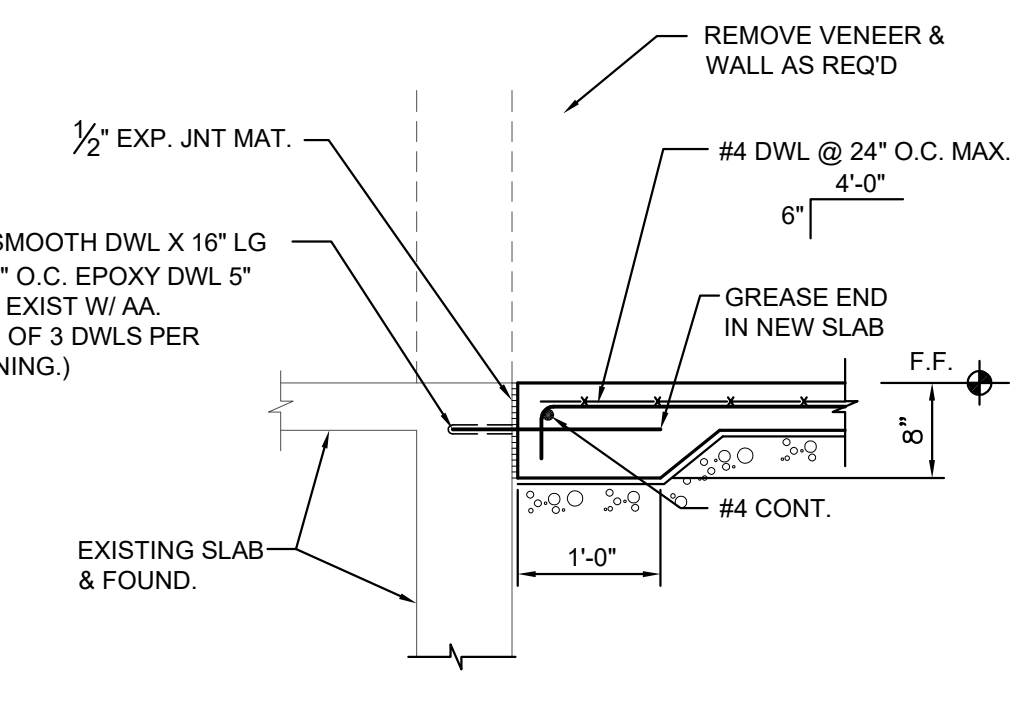
3 LINTEL @ NEW LOUVERS
S2.1 3/4"=1'-0"



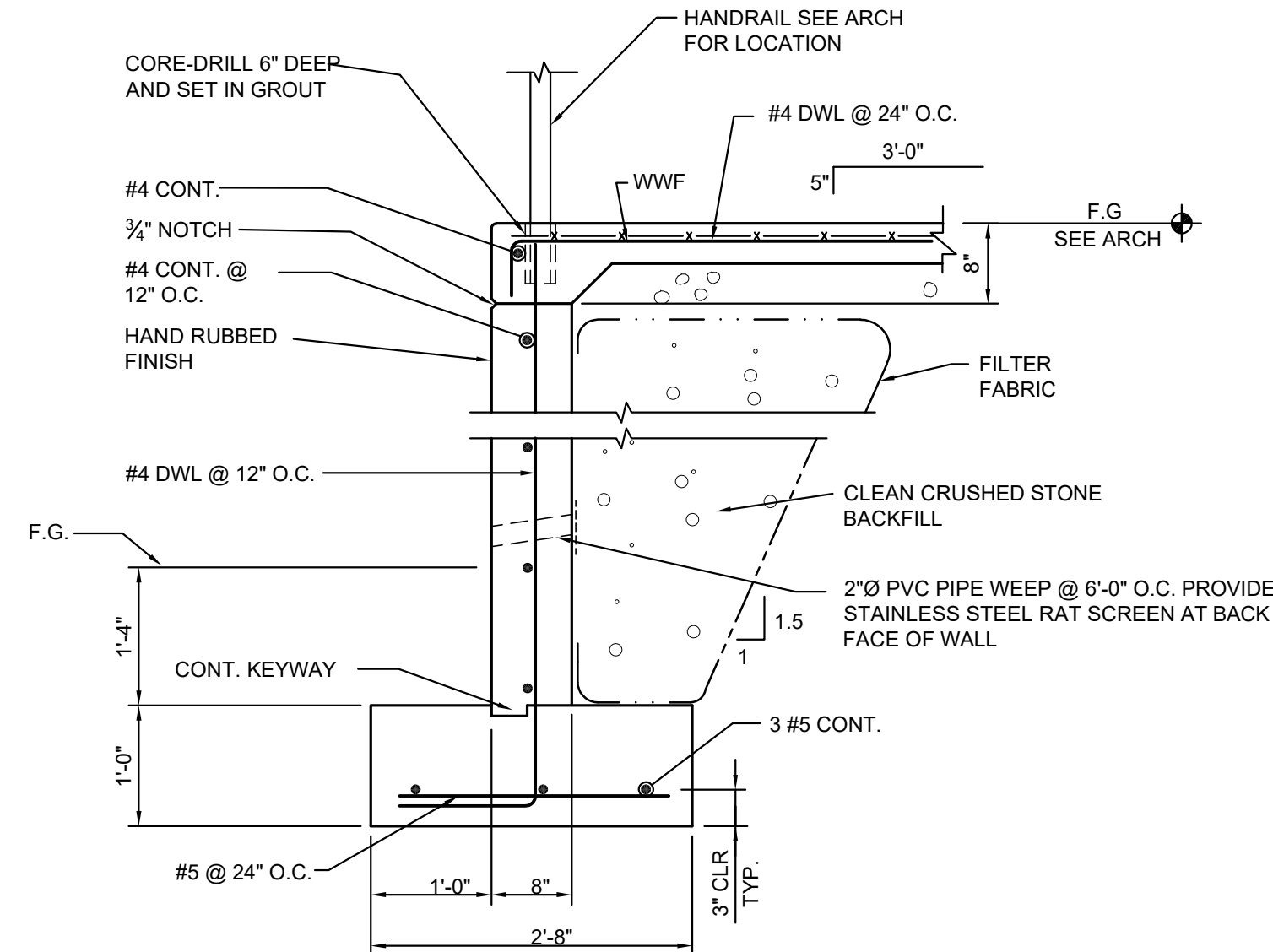
4 SLAB REPAIR DETAIL
S2.1 3/4"=1'-0"



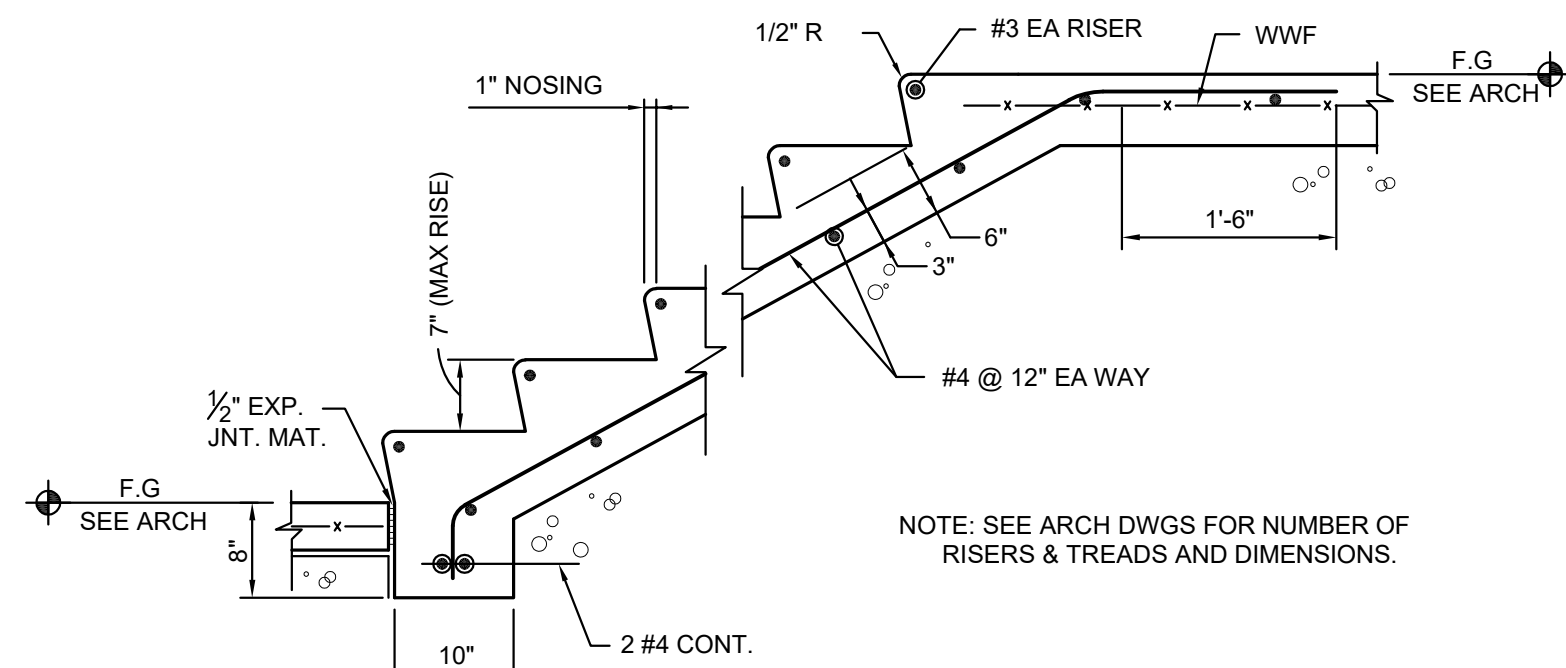
5 SIDEWALK SLAB @ EXIST WALL
S2.1 3/4"=1'-0"



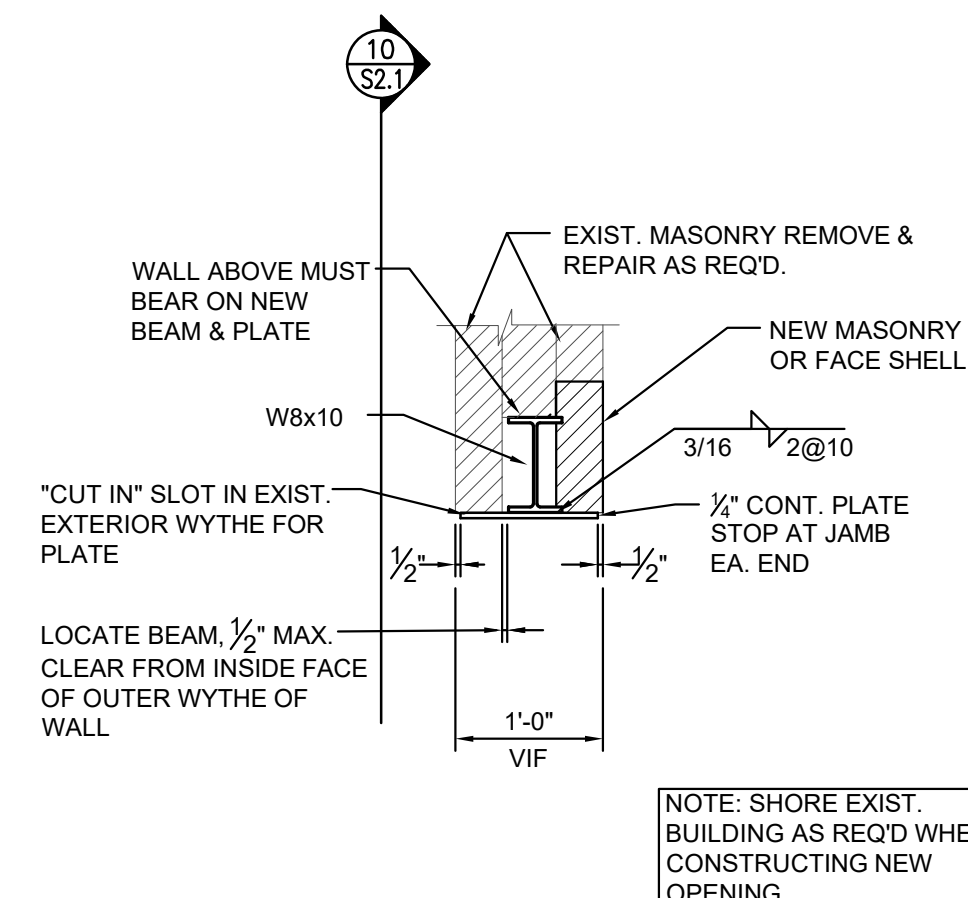
6 NEW SLAB AT DOOR OPNG
S2.1 3/4"=1'-0"



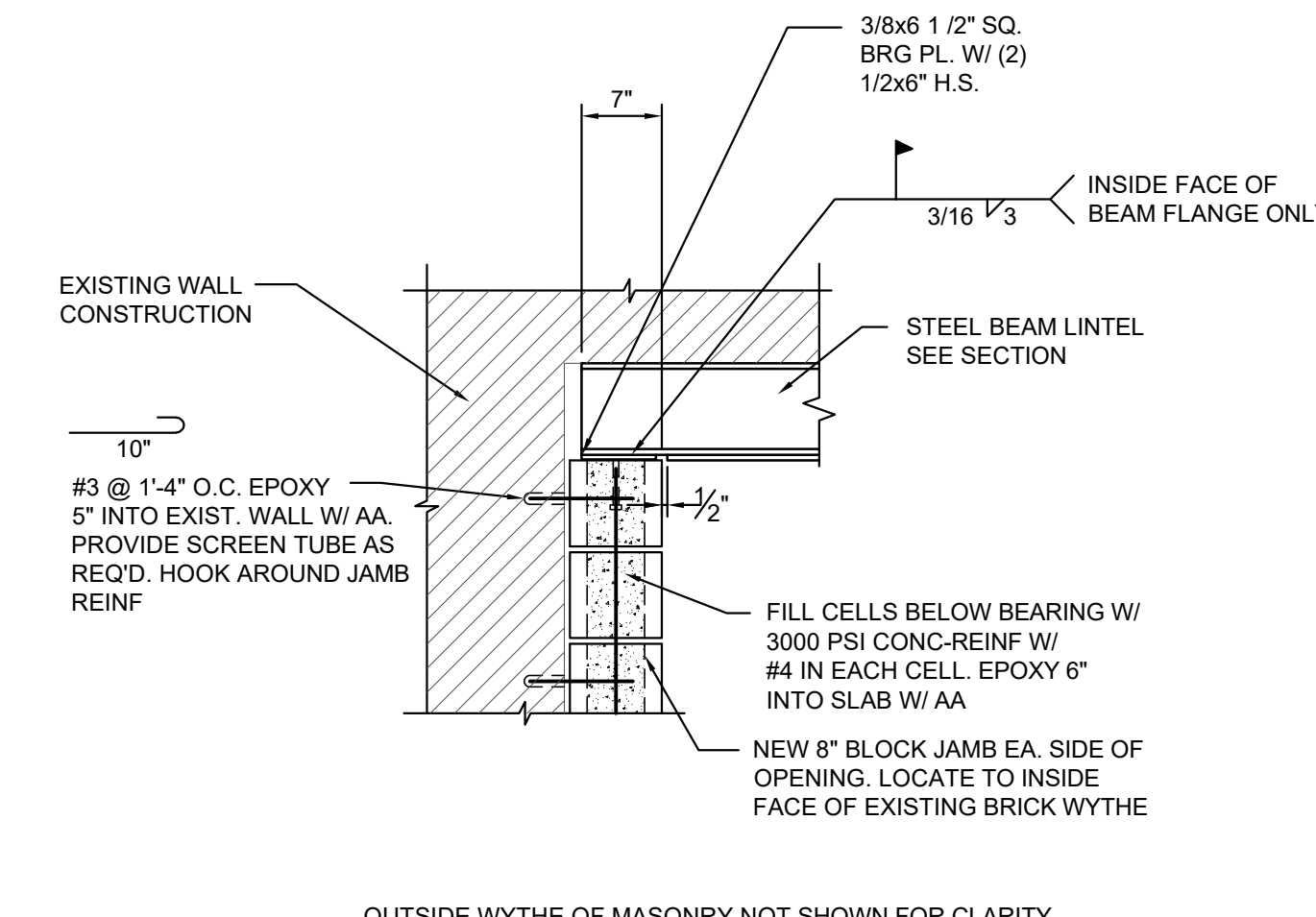
7 RETAINING WALL AT ENTRY
S2.1 3/4"=1'-0"



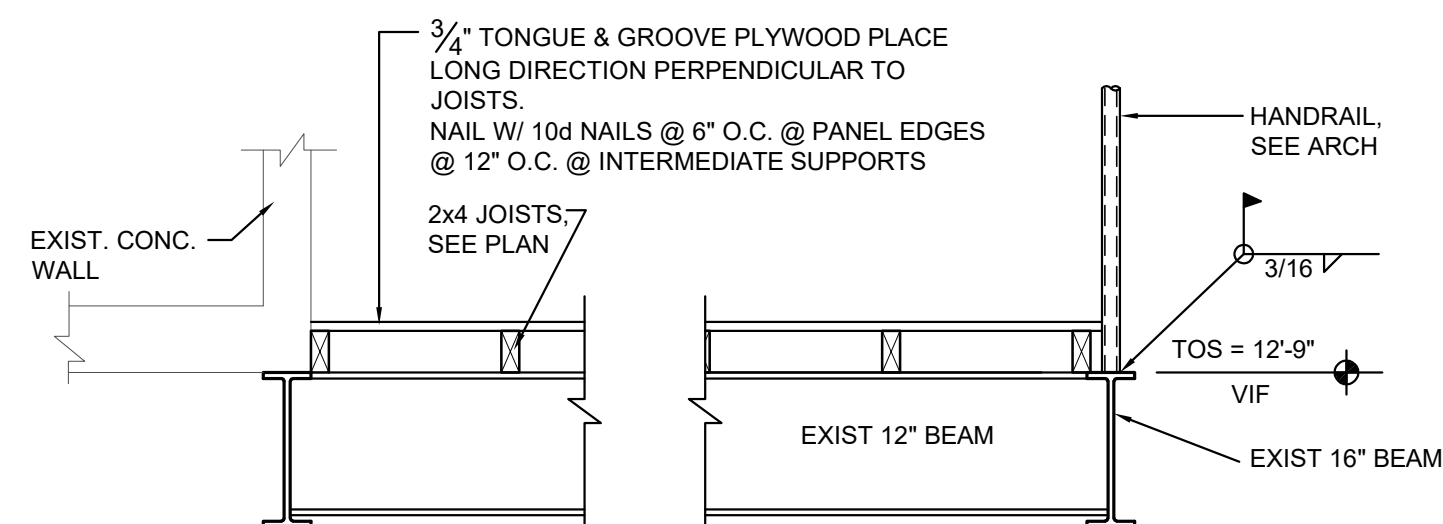
8 EXTERIOR CONC. STEPS
S2.1 3/4"=1'-0"



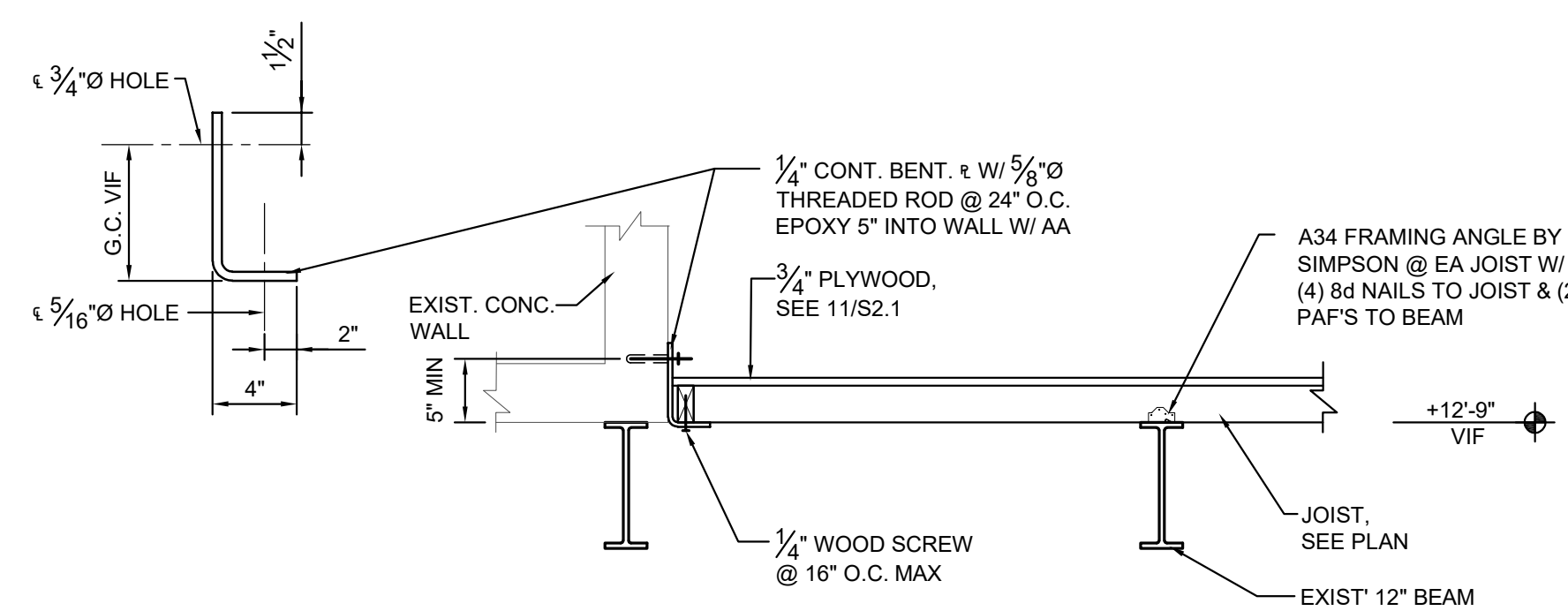
9 LINTEL @ NEW ENTRY
S2.1 3/4"=1'-0"



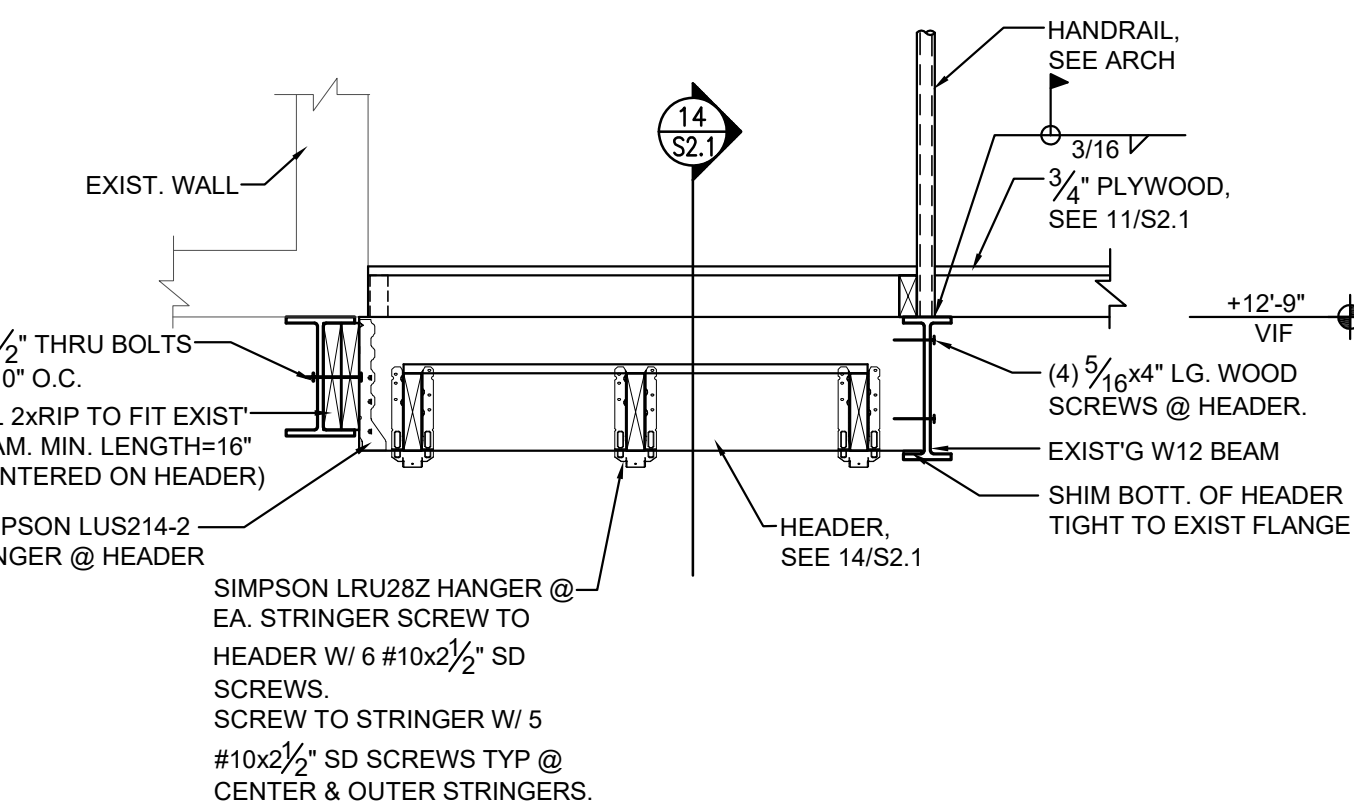
10 INTEL BEARING @ NEW ENTRY
S2.1 3/4"=1'-0"



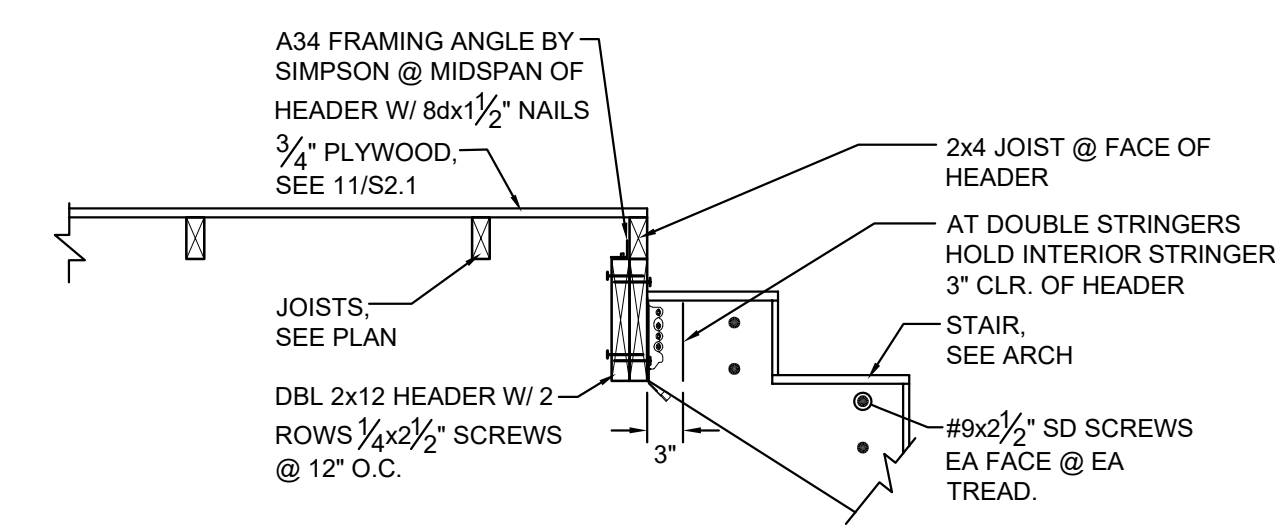
11 SECTION THRU MEZZANINE
S2.1 3/4"=1'-0"



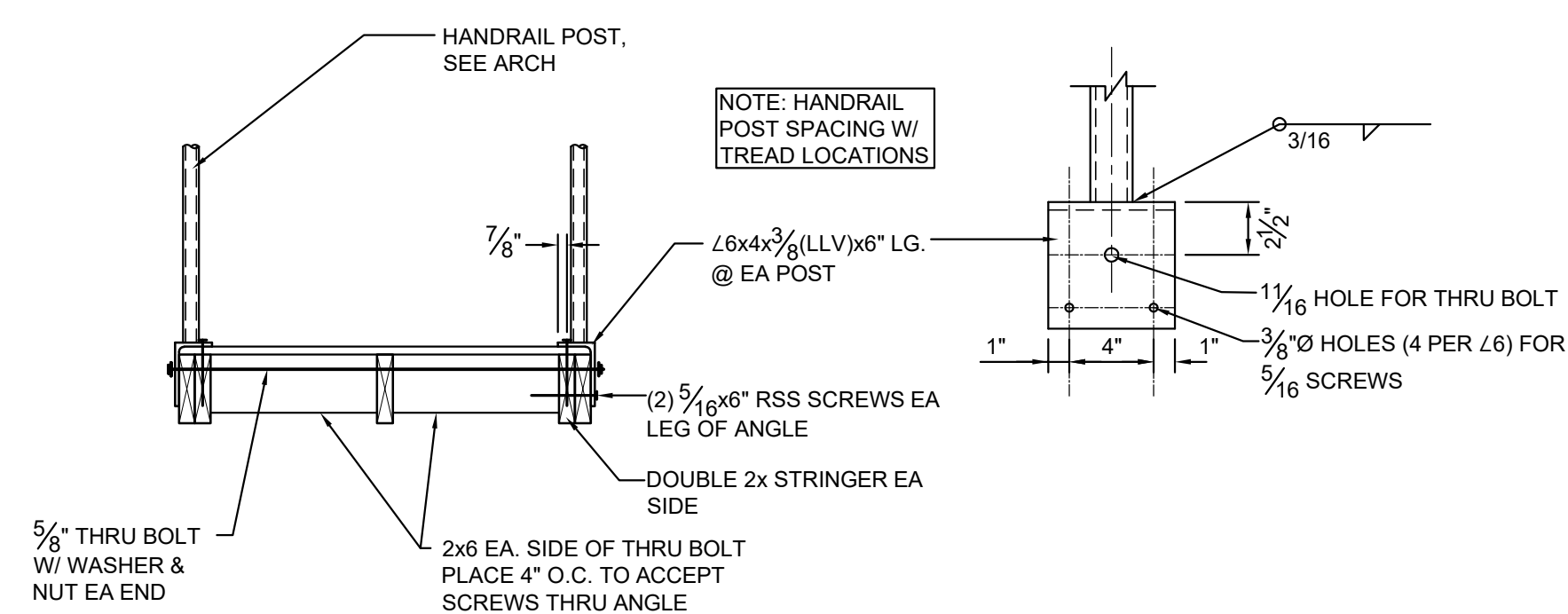
12 MEZZANINE SECTION @ EXIST WALL
S2.1 3/4"=1'-0"



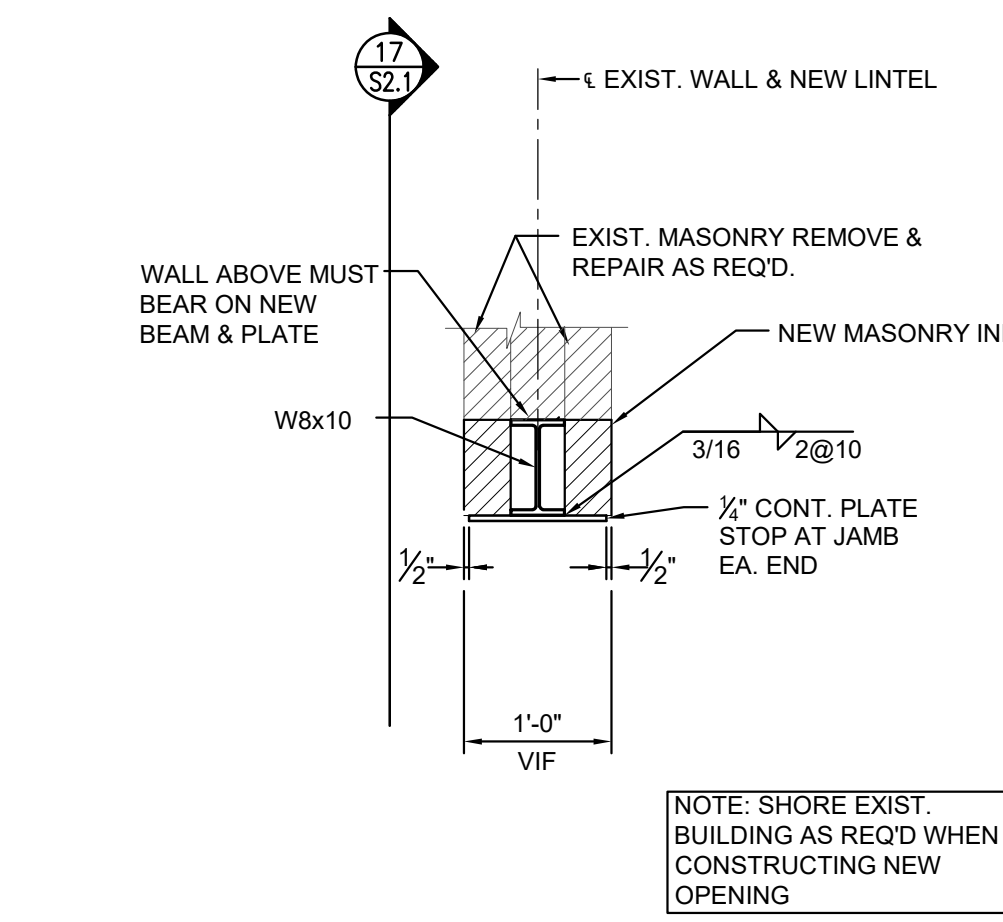
13 ELEVATION @ STAIR HEADER
S2.1 3/4"=1'-0"



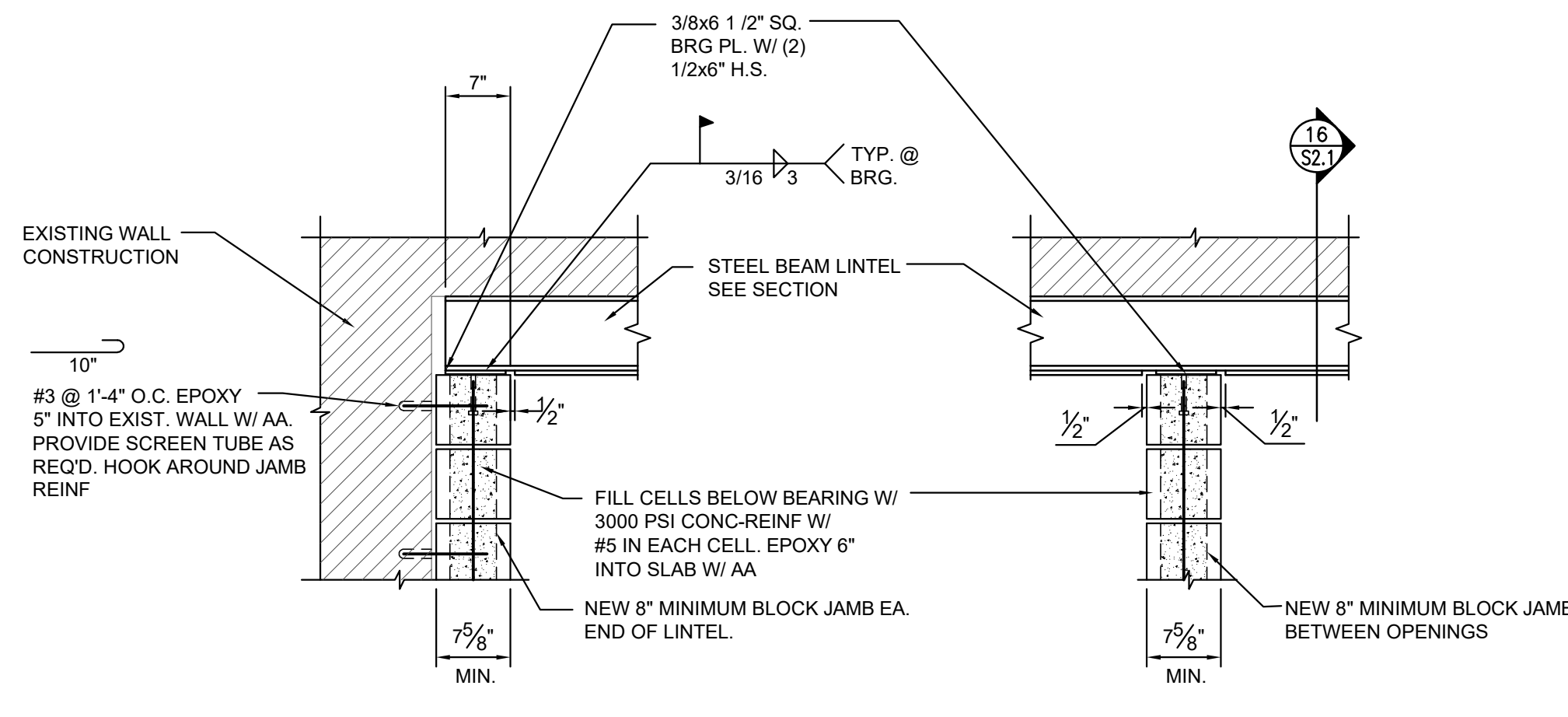
14 DOUBLE STRINGER @ HEADER
S2.1 3/4"=1'-0"



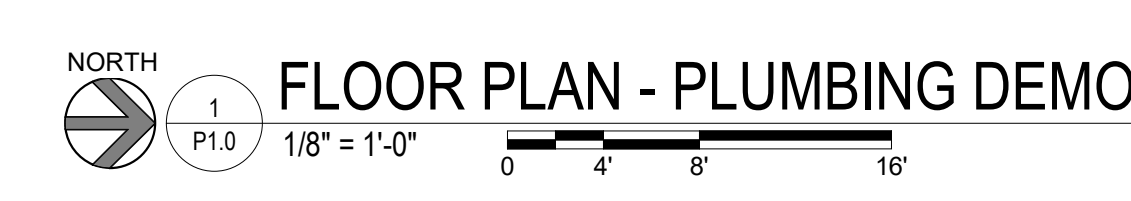
15 HANDRAIL TO STAIR
S2.1 3/4"=1'-0"



16 LINTEL @ DOOR 119.1 & WINDOW H
S2.1 3/4"=1'-0"



17 LINTEL BEARING @ DOOR 119.1 & WINDOW H
S2.1 3/4"=1'-0"

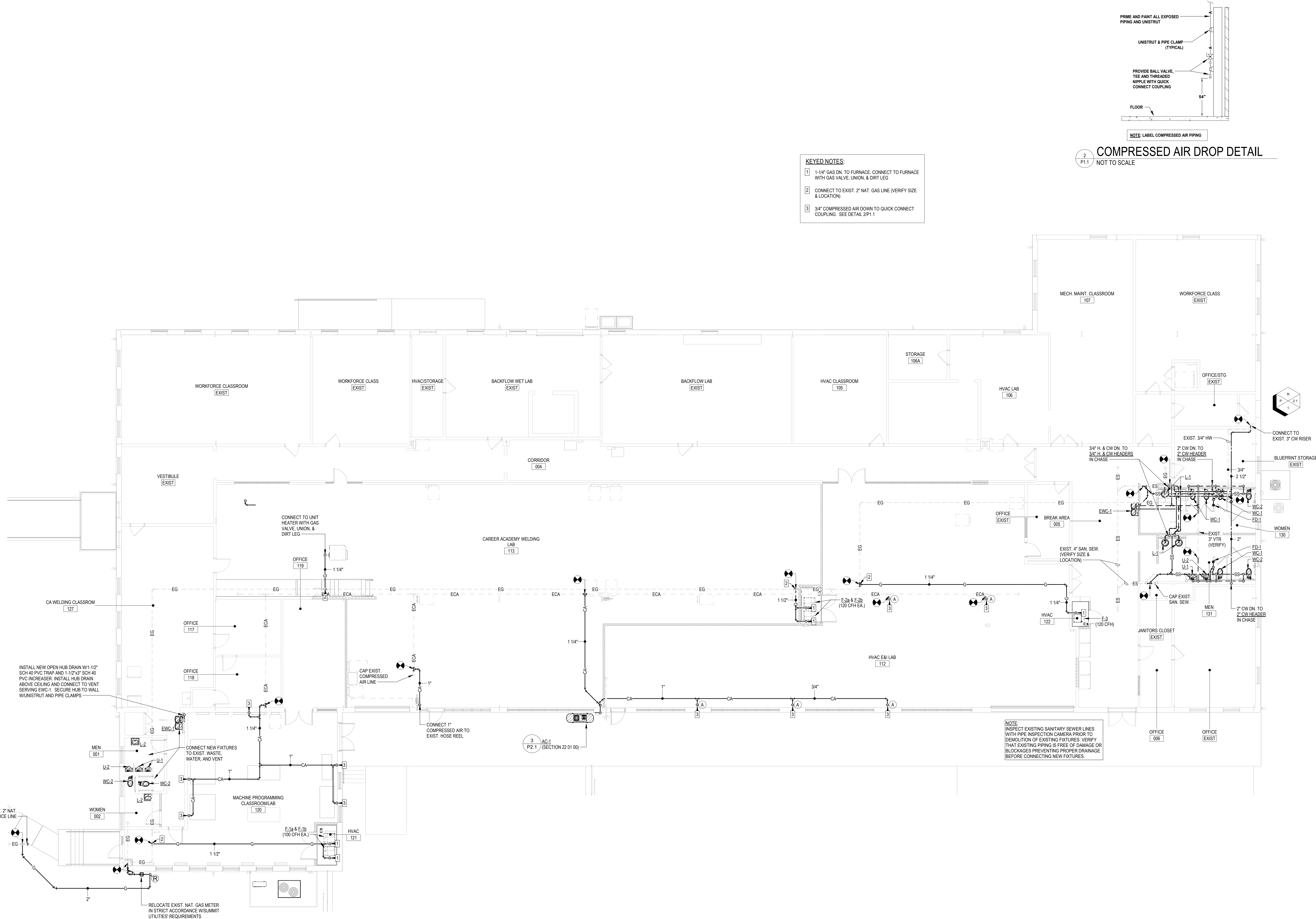




FLOOR PLAN - PLUMBING

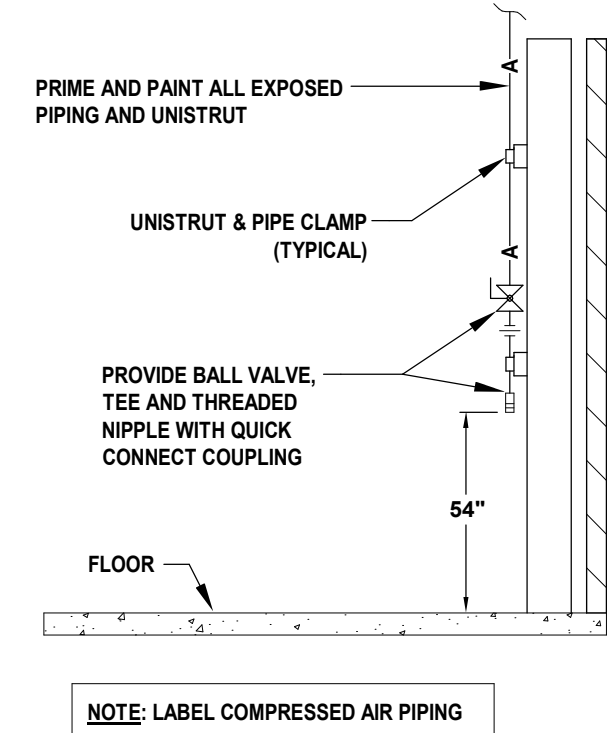
1/8" = 1'-0"

0 4' 8' 16'

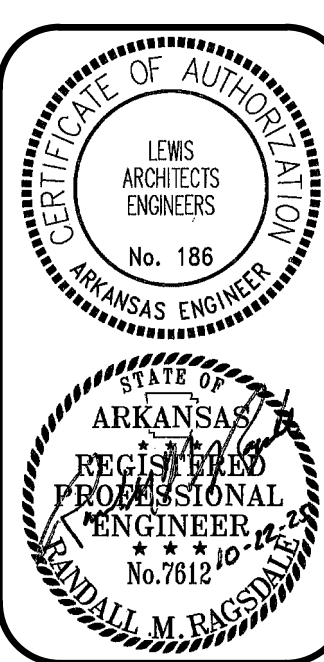


2 COMPRESSED AIR DROP DETAIL
P1.1 NOT TO SCALE

- KEYED NOTES:
- 1-1/2" GAS DN. TO FURNACE. CONNECT TO FURNACE WITH GAS VALVE, UNION, & DIRT LEG
 - CONNECT TO EXIST. 2" NAT. GAS LINE (VERIFY SIZE & LOCATION)
 - 3/4" COMPRESSED AIR DOWN TO QUICK CONNECT COUPLING. SEE DETAIL 2/P1.1



MANUFACTURING BUILDING
INDUSTRY TECHNOLOGY
RENOVATION
SOUTHERN ARKANSAS UNIVERSITY TECH
CAMDEN, ARKANSAS



DATE: 2025-10-23
PROJECT NO: 25060
DRAWN BY: KS
REV:

P1.1

2 OF 3

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LEWIS
ARCHITECTS
ENGINEERS

FLOOR PLAN -
PLUMBING

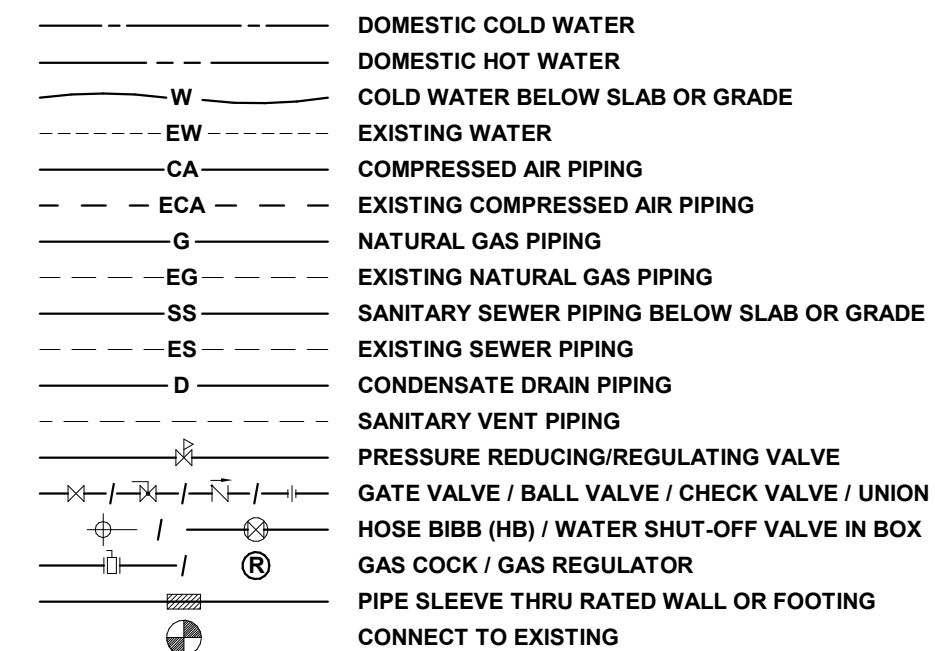
PLUMBING FIXTURE SCHEDULE				
MARK	DESCRIPTION	WASTE	H.W.	C.W.
WC-1	WATER CLOSET	4"	---	1"
WC-2	WATER CLOSET, BARRIER FREE	4"	---	1"
U-1	URINAL	2"	---	3/4"
U-2	URINAL, BARRIER FREE	2"	---	3/4"
L-1	LAVATORY, BARRIER FREE	2"	1/2"	1/2"
L-2	LAVATORY, BARRIER FREE	2"	1/2"	1/2"
FD-1	FLOOR DRAIN, 2" DEEP-SEAL P-TRAP	2"	---	---
EW-1	ELECTRIC WATER COOLER	2"	---	1/2"

PLUMBING SPECIFICATIONS	
WC-1	WATER CLOSET - AMERICAN STANDARD "MADERA" #2234.001 1.6GPF SIPHON JET, ELONGATED BOWL, 1-1/2" TOP SPUD, BOLT CAPS, CHURCH #B400SSC SEAT WITH CHECK HINGE, SELF-SUSTAIN FEATURE AND STAINLESS STEEL HINGE POSTS, WITH SLOAN REGAL 111 SFSM-1.6-TMO, 1.6 GPF BATTERY-OPERATED SIDE MOUNT SENSOR FLUSH VALVE WITH TRUE MECHANICAL OVERRIDE BUTTON, TOP OF RIM AT 15" AFF, TOTAL HEIGHT IS 16-1/4" AFF, WITH SEAT
WC-2	WATER CLOSET (BARRIER FREE) - AMERICAN STANDARD "MADERA" #3043.001 1.6GPF SIPHON JET, ELONGATED BOWL, 1-1/2" TOP SPUD, BOLT CAPS, CHURCH #B400SSC SEAT WITH CHECK HINGE, SELF-SUSTAIN FEATURE AND STAINLESS STEEL HINGE POSTS, WITH SLOAN REGAL 111 SFSM-1.6-TMO, 1.6 GPF BATTERY-OPERATED SIDE MOUNT SENSOR FLUSH VALVE WITH TRUE MECHANICAL OVERRIDE BUTTON, TOP OF RIM AT 16-1/2" AFF, TOTAL HEIGHT IS 17-3/4" AFF, WITH SEAT
U-1	URINAL - AMERICAN STANDARD "WASHBROOK" 6590.001 1.0GPF WASHOUT, 2" IPS OUTLET, 3/4" TOP SPUD, WALL HANGER WITH WALL BOLTS & BOLT CAPS, SLOAN REGAL 186 SFSM-1.0-TMO, 1.0 GPF BATTERY-OPERATED SIDE MOUNT SENSOR FLUSH VALVE WITH TRUE MECHANICAL OVERRIDE BUTTON, MOUNT LIP AT 20" AFF.
U-2	URINAL, BARRIER FREE - AMERICAN STANDARD "WASHBROOK" 6590.001 1.0GPF WASHOUT, 2" IPS OUTLET, 3/4" TOP SPUD, WALL HANGER WITH WALL BOLTS & BOLT CAPS, SLOAN REGAL 186 SFSM-1.0-TMO, 1.0 GPF BATTERY-OPERATED SIDE MOUNT SENSOR FLUSH VALVE WITH TRUE MECHANICAL OVERRIDE BUTTON, MOUNT LIP AT 17" AFF. (RECOMMENDED BARRIER FREE MOUNTING HEIGHT FOR GRADES 'K' THRU '12' AND THRU ADULT.)
L-1	LAVATORY, BARRIER FREE - AMERICAN STANDARD "ADUALYN" #0476.028 OVAL BOWL, MCGUIRE #155A CAST BRASS SOLID TOP OPEN GRID SINK STRAINER, #216SLK 1/2" I.P.S. x 3/8" O.D. LOOSE KEY STOPS WITH 3/8" O.D. CHROME PLATED RISERS (NOTE: DO NOT USE FLEXIBLE GRADED SUPPLY LINES), 1 & 2 #B-2711-AM LAVATORY FAUCET WITH SINGLE LEVER ANTI-MICROBIAL HANDLE AND MCGUIRE #8872 - 1-1/4" 17 GA. CHROME PLATED CAST BRASS P-TRAP WITH CLEANOUT. NOTE: PROTECTIVE UNDER-COUNTER SHIELD SHALL BE PROVIDED BY GENERAL CONTRACTOR. VERIFY COUNTER MOUNTING HEIGHT WITH ARCHITECTURAL DRAWINGS. PROVIDE LEONARD #170, LF-BP ASSE 1070 TEMPERED WATER MIXING VALVE MOUNTED ADJACENT TO SUPPLY STOPS. REFER TO DETAIL ON PLUMBING DRAWINGS. INSULATE WASTE AND SUPPLIES PER SPECIFICATIONS MANUAL.
L-2	LAVATORY, BARRIER FREE - AMERICAN STANDARD "LUCERNE" #0355.012M, 20" X 18" WALL HUNG, MCGUIRE #155VC OFFSET OPEN GRID DRAIN, #216SLK 1/2" I.P.S. x 3/8" O.D. LOOSE KEY STOPS WITH 3/8" O.D. C.P. RISERS (NOTE: DO NOT USE FLEXIBLE GRADED SUPPLY LINES), 1 & 2 #B-2711-AM LAVATORY FAUCET WITH SINGLE LEVER ANTI-MICROBIAL HANDLE AND MCGUIRE #8872 - 1-1/4" CAST BRASS P-TRAP WITH CLEAN OUT. PROVIDE WADE #W-510-NR LAVATORY CARRIER AT STUD WALLS. TOP OF SINK APRON AT 34" AFF. PROVIDE LEONARD #170-LF-BP ASSE 1070 TEMPERED WATER MIXING VALVE MOUNTED ADJACENT TO SUPPLY STOPS. REFER TO DETAIL ON PLUMBING DRAWINGS. INSULATE WASTE AND SUPPLIES PER SPECIFICATIONS MANUAL.
FD-1	FLOOR DRAIN - WADE #W-1100-A6-1-VP 2" TRAP SIZE, CAST IRON FLOOR DRAIN WITH 6" DIAMETER NICKEL BRONZE STRAINER, FLANGE, INTEGRAL REVERSIBLE CLAMPING COLLAR, SEEPAGE OPENINGS, VANDAL-PROOF SCREWS, 2" DEEP-SEAL TRAP. PROVIDE WITH PRO-SET "TRAP GUARD" #TG22-WADE TRAP SEAL PROTECTOR IN LIEU OF TRAP PRIMER.
EW-1	ELECTRIC WATER COOLER, SPLIT-LEVEL WITH BOTTLE FILLING STATION (LEFT HAND LOW SIDE) - ELKAY L231BWSKXZD20, 7.8 GPM @ 50" WATER AT 60 F, 16 HP, 120V. INSTALL WITH ONE (1) BUBBLER MTD. AT 36" AFF. AND ONE (1) AT 42" AFF. STAINLESS STEEL FINISH "FLEX GUARD" STYLE PLASTIC BUBBLERS, MCGUIRE #216S WHEEL HANDLE STOP, 3/8" FLEXIBLE WATER SUPPLY TUBE AND #8872 - 1-1/4" CAST BRASS P-TRAP WITH CLEANOUT.
AC-1	AIR COMPRESSOR - REFER TO SPECIFICATIONS SECTION 22 01 00.

NOTES:

- THE PLUMBING CONTRACTOR SHALL REVIEW SECTION 1.3 OF THE PLUMBING SPECIFICATIONS AND MAKE SHOP DRAWING SUBMITTALS ACCORDINGLY. SUBMITTAL BROCHURES CONTAINING DATA ON PLUMBING FIXTURES AND THEIR ACCESSORIES ONLY SHALL NOT BE APPROVED.
- URINALS AS SPECIFIED SHALL HAVE INTEGRAL FLUSHING RIM. KOHLER 'FRESHMAN' AND SLOAN SU-1006 URINALS SHALL BE CONSIDERED EQUAL TO AMERICAN STANDARD 'ALLBROOK'.
- ALL VITREOUS CHINA FIXTURES SHALL BE OF THE SAME MANUFACTURER. TYPICAL FOR FAUCETS, STOPS, TRAPS, PUMPS, ETC. UNLESS SPECIFIED OTHERWISE.
- WHERE UNDER-COUNTER PROTECTIVE SHIELD IS PROVIDED BY GENERAL CONTRACTOR THE INSULATION ON THE P-TRAP AND SUPPLY STOPS AT BARRIER FREE LAVATORIES AND SINKS MAY BE OMITTED. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS.
- ELECTRIC WATER COOLERS SHALL BE ROUGHED-IN AS CLOSE AS PRACTICAL TO RECOMMENDED STANDARD AND BARRIER FREE MOUNTING HEIGHTS. DUE TO FIXTURE CONSTRUCTION AND PHYSICAL LIMITATIONS BETWEEN BOTTOM OF FIXTURE AND FINISH FLOOR THE MOUNTING HEIGHTS GIVEN SHALL APPLY.

PLUMBING LEGEND

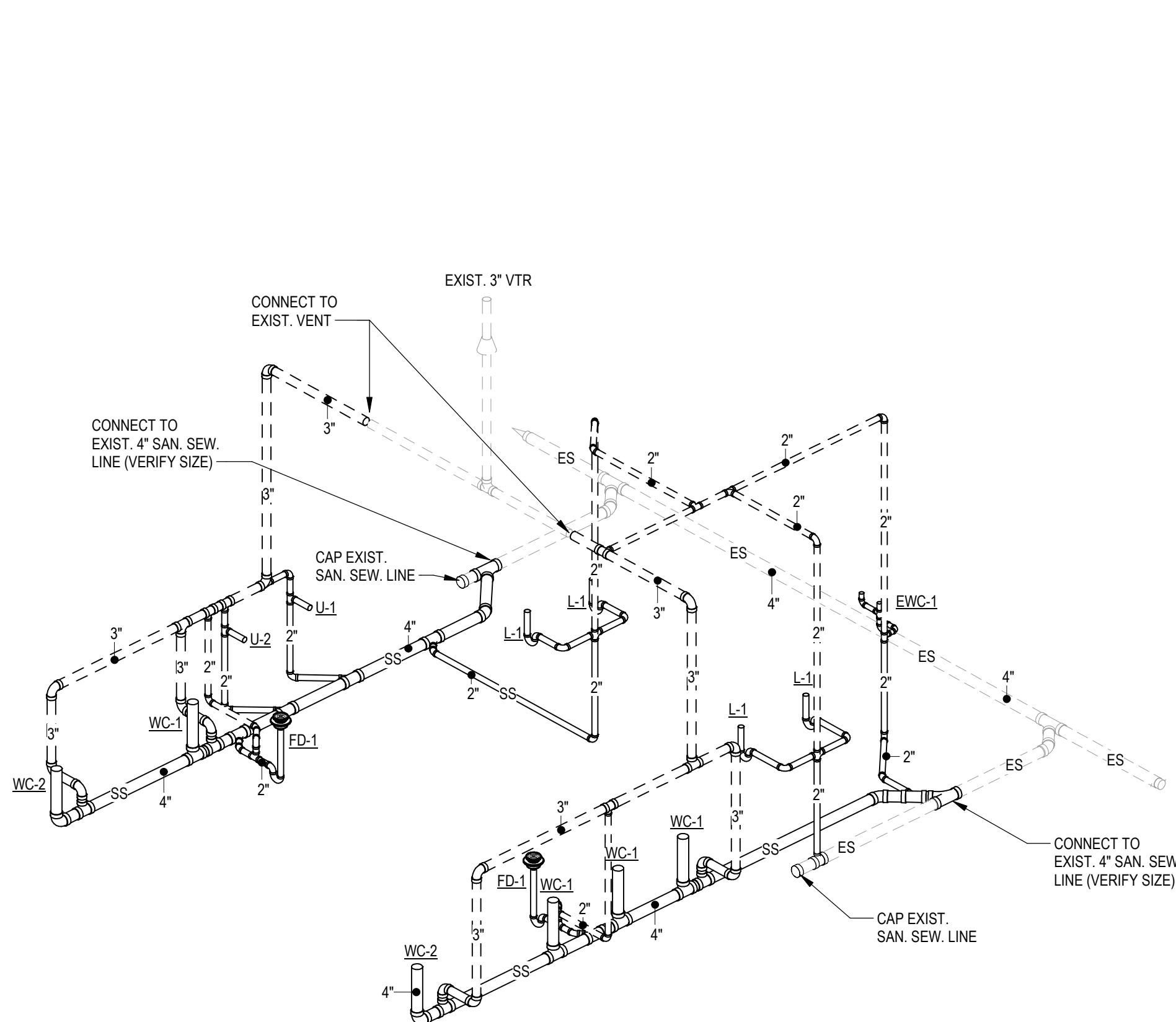


ABBREVIATIONS

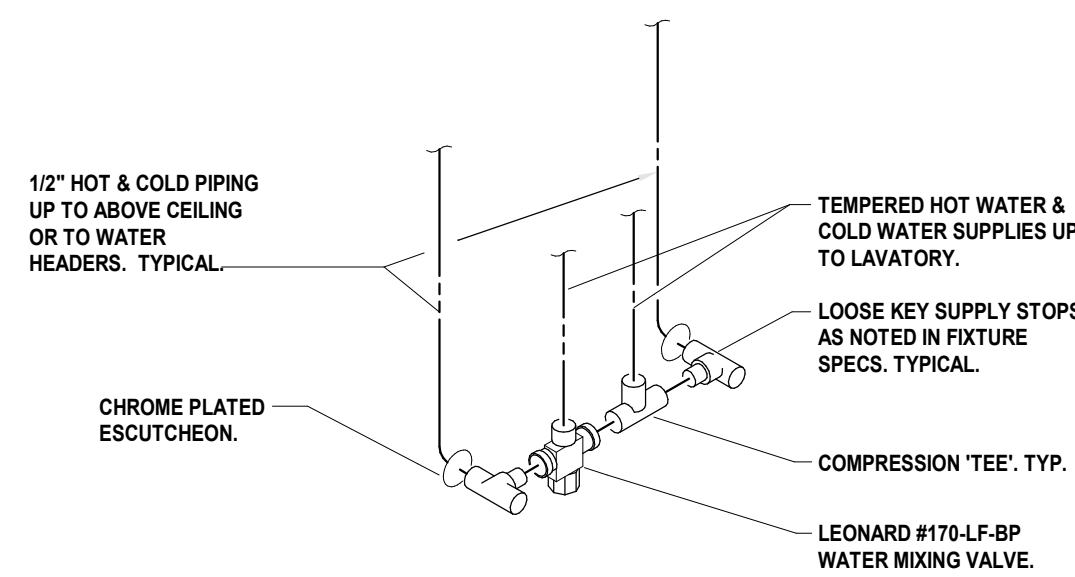
CW	COLD WATER	SIM.	SIMILAR
HW	HOT WATER	HWR	HOT WATER RETURN (RECIRC.)
BV	BALL VALVE	EXIST.	EXISTING
GV	GATE VALVE	MPG	MEDIUM PRESSURE GAS
GC	GAS COCK	F.U.	FIXTURE UNIT
CGTG.	CLEANOUT TO GRADE	DWV	DRAIN WASTE AND VENT SYSTEM
ACOTG.	AWS CLEANOUT TO GRADE	CWV	COMBINATION WASTE AND VENT
FCD.	FLOOR CLEANOUT	AWS	ACID WASTE SYSTEM
AFCO.	AWS FLOOR CLEANOUT	FL	FLOWLINE
WCO.	WALL CLEANOUT	INV.	INVERT
VTR	VENT THRU ROOF	AFB.	ABOVE FINISHED FLOOR
AVTR	AWS VENT THRU ROOF	AFG.	ABOVE FINISHED GRADE
UNO	UNLESS NOTED OTHERWISE	CFH	CUBIC FEET PER HOUR
N.I.C.	NOT IN CONTRACT	AAV.	AIR ADMITTANCE VALVE
RD	ROOF DRAIN		

PLUMBING GENERAL NOTES

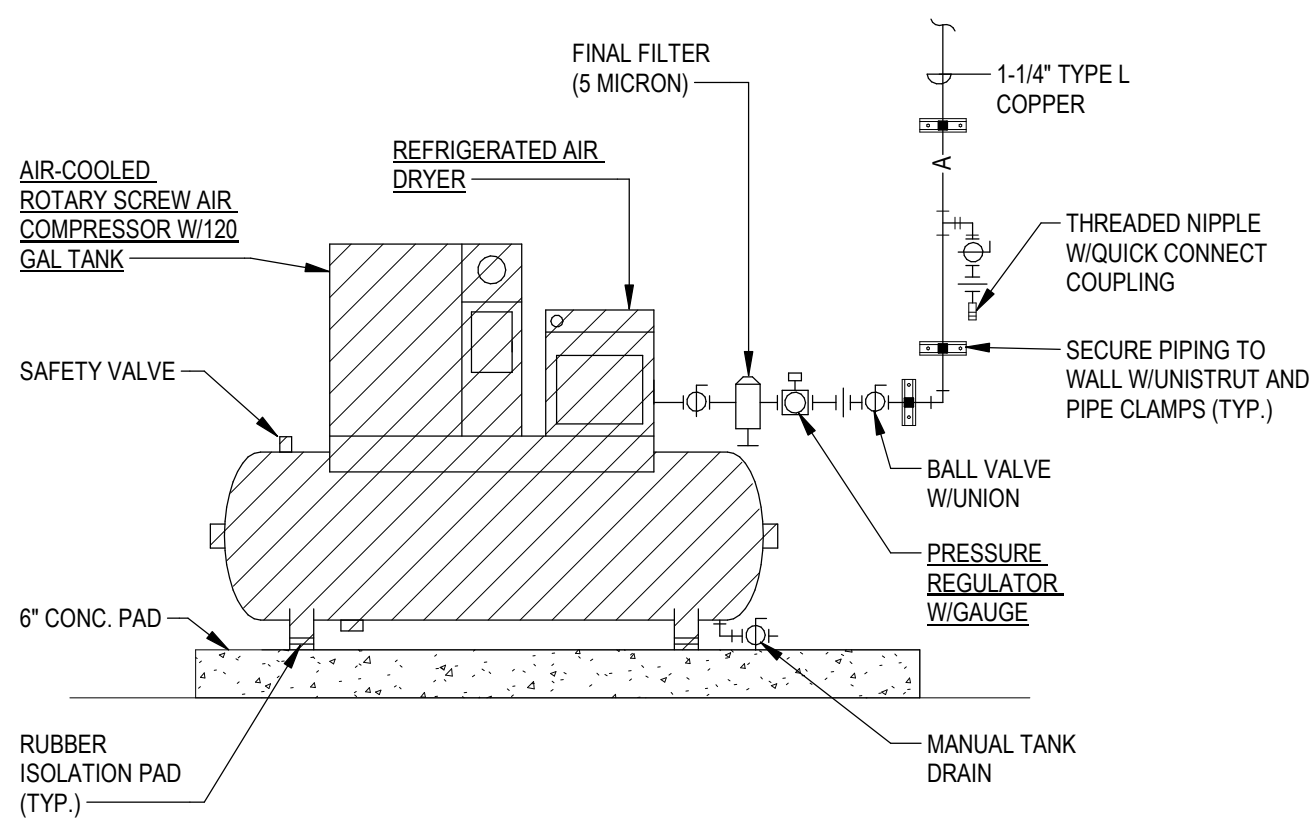
- CONTRACTOR TO FURNISH AND INSTALL:
a. SHUT-OFF VALVES ON ALL WATER AND GAS LINES PER SPECIFICATIONS.
b. SHOCK ABSORBERS FOR SNAP-ACTION VALVES.
c. ALL VALVES, TRIM AND TRAPS NECESSARY TO CONNECT OUTLETS PROPERLY.
- CONTRACTOR TO INSURE THAT ALL LINES ARE FLUSHED FREE OF FOREIGN MATTER BEFORE MAKING FINAL CONNECTIONS.
- ALL PIPES AND RELATED ROUGH-IN MATERIAL ARE TO BE RUN UNEXPOSED UNDER FLOORS, IN WALLS AND ABOVE FINISHED CEILINGS WHERE POSSIBLE UNLESS NOTED OTHERWISE IN SPECIFICATIONS OR DRAWINGS.
- ROUGH-IN FOR FLUSH VALVES SHALL BE ON THE RIGHT HAND SIDE OF THE FIXTURE (ALL BARRIER FREE WATER CLOSETS SHALL BE ROUGHED-IN FOR FLUSH VALVE HANDLE OR TANK TRIP LEVER ON LAVATORY SIDE OR FOR HANDLE OR TRIP LEVER OPPOSITE SIDE WALL WITH GRAB BAR, AS APPLIES). ROUGH-IN FOR LAVATORIES AND SINKS SHALL BE ON THE RIGHT FOR COLD AND THE LEFT FOR HOT.
NOTE: INSTALL FLUSH VALVES PLUMB IN BOTH DIRECTIONS WITH ESCUTCHEONS SECURE AND TIGHT TO WALL.
- ALL WATER PIPING INSTALLED IN THE ATTIC SPACE SHALL BE ROUTED BELOW LAY-IN CEILING INSULATION. IN AREAS WHERE CEILING INSULATION IS NOT INSTALLED THE MAXIMUM HEIGHT FOR WATER LINES SHALL BE 1'-0" ABOVE FINISH CEILING.
- COORDINATE ALL VENTS THROUGH ROOF WITH ROOFING CONTRACTOR.
- PROVIDE DIRT LEG, GAS COCK AND UNION AT ALL FINAL CONNECTIONS TO EQUIPMENT. 3/4" MINIMUM SIZE UNO.
- WHERE SEMI-RIGID GAS CONNECTORS ARE USED TO SERVE MOTOR OPERATED APPLIANCES, A RUBBER GROMMET SHALL BE INSTALLED IN THE APPLIANCE KNOCK-OUT-PLUG.
- DUE TO THE SMALL SCALE OF THESE DRAWINGS, IT IS NOT POSSIBLE TO INDICATE ALL OFFSETS, FITTINGS AND ACCESSORIES WHICH MAY BE REQUIRED. THE CONTRACTOR SHALL INVESTIGATE THE STRUCTURAL AND FINISH CONDITIONS AFFECTING THE WORK AND SHALL COORDINATE AND ARRANGE HIS WORK ACCORDINGLY.
- CONTRACTOR SHALL FIRESTOP PER SPECIFICATIONS ALL GAS, WATER, SOIL AND VENT PIPING THAT PENETRATE ANY RATED WALLS. VERIFY FIRE RATED WALL LOCATIONS WITH ARCHITECTURAL PLANS.
- CONTRACTOR SHALL COORDINATE WITH ELEC. CONTRACTOR AND AVOID ANY WATER LINE INSTALLATION ABOVE ELECTRIC GEAS AND/OR APPARATUS.
- PROVIDE VALVE IDENTIFICATION LEGENDS PER PLANS AND SPECIFICATIONS.
- MAINTAIN 18'-0" CLEARANCE FROM FRESH AIR INTAKES (SEE HVAC PLANS). OFFSET VENTS THRU ROOF AS REQUIRED.
- CONTRACTOR SHALL ENDEAVOR TO INSTALL BELOW SLAB SANITARY AND ACID WASTE PIPING (WHERE APPLICABLE) BELOW THE BOTTOM OF FOOTINGS, GRADE BEAMS, ETC. SLEEVE ALL LINES ROUTED THRU FOOTINGS, STEM WALLS AND GRADE BEAMS. COORDINATE WITH STRUCTURAL ENGINEER FOR PREFERRED LOCATIONS.
- AT CHASES INSTALL FULL SIZE COLD WATER HEADERS WITH FULL SIZE AIR CHAMBERS. SEE PLANS FOR SIZES AND AIR CHAMBER LOCATIONS.
- SLEEVE AND FOAM SEAL ALL GAS LINE PENETRATIONS THRU EXTERIOR WALL. TRIM OFF EXCESS FOAM SEALANT AND PAINT TO MATCH BUILDING BRICK OR EXTERIOR FINISH.
- PAINT ALL EXPOSED SANITARY SEWER, VENT, WATER AND GAS PIPING, INTERIOR AND EXTERIOR.
- WHERE PIPES PENETRATE CEILING IN FINISHED SPACES THE CONTRACTOR SHALL COORDINATE WITH CEILING INSTALLER AND PROVIDE PAINTED ESCUTCHEONS SIZED APPROPRIATELY FOR PIPE INSULATION (IF ANY).
- SLEEVE ALL GAS LINES UNDER CONCRETE WALKS, PADS AND SLABS.
- CONTRACTOR SHALL PROVIDE PHOTOS OF ALL UNDERGROUND PLUMBING TO ARCHITECT AND OWNER. AS-BUILTS SHALL CLEARLY INDICATE ALL CLEANOUTS.



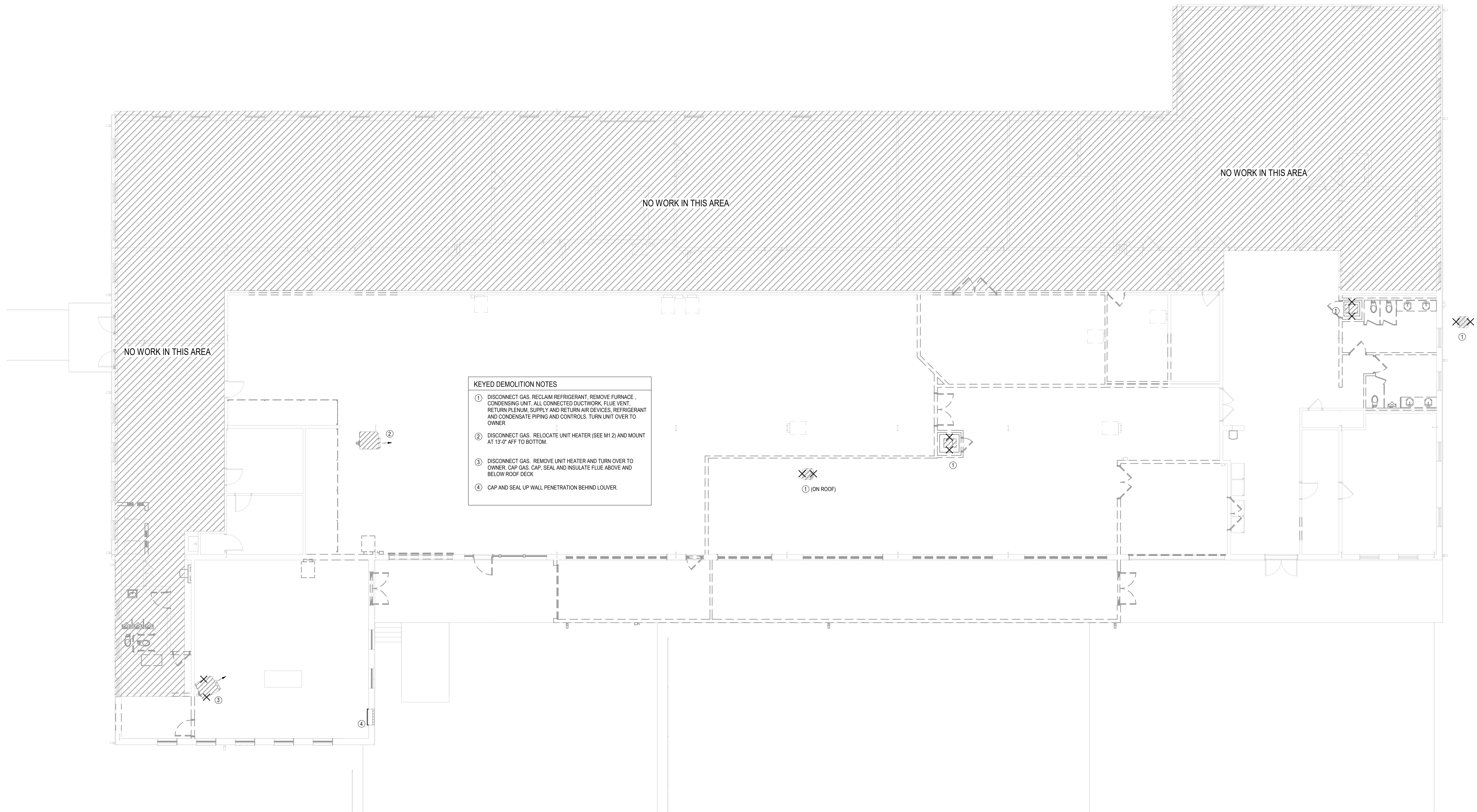
WASTE AND VENT RISER DIAGRAM

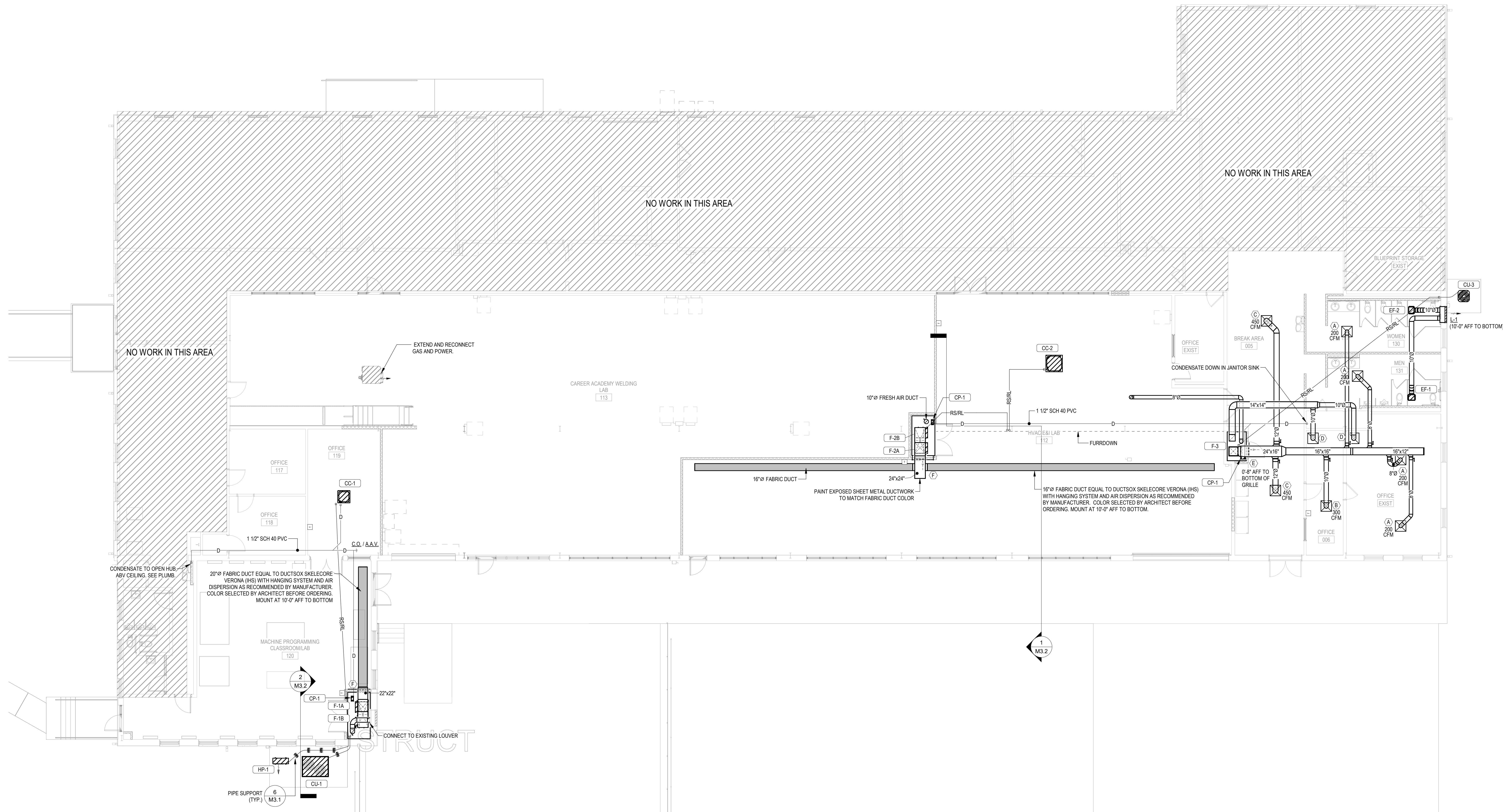


TEMPERING VALVE DETAIL



AIR COMPRESSOR DETAIL





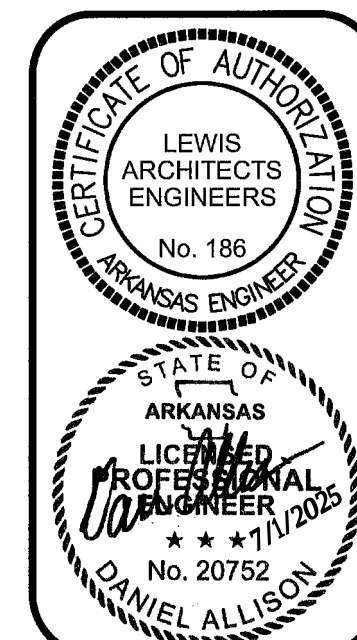
NORTH

1 M1.2 1/8" = 1'-0"

0 2' 4' 8'

FLOOR PLAN - HVAC

MANUFACTURING BUILDING
INDUSTRY TECHNOLOGY
RENOVATION
SOUTHERN ARKANSAS UNIVERSITY TECH
CAMDEN, ARKANSAS

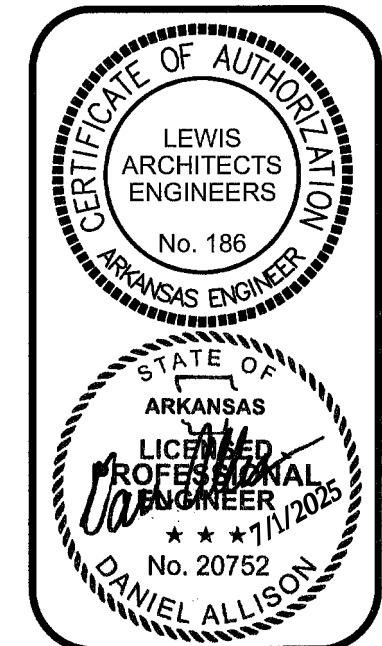
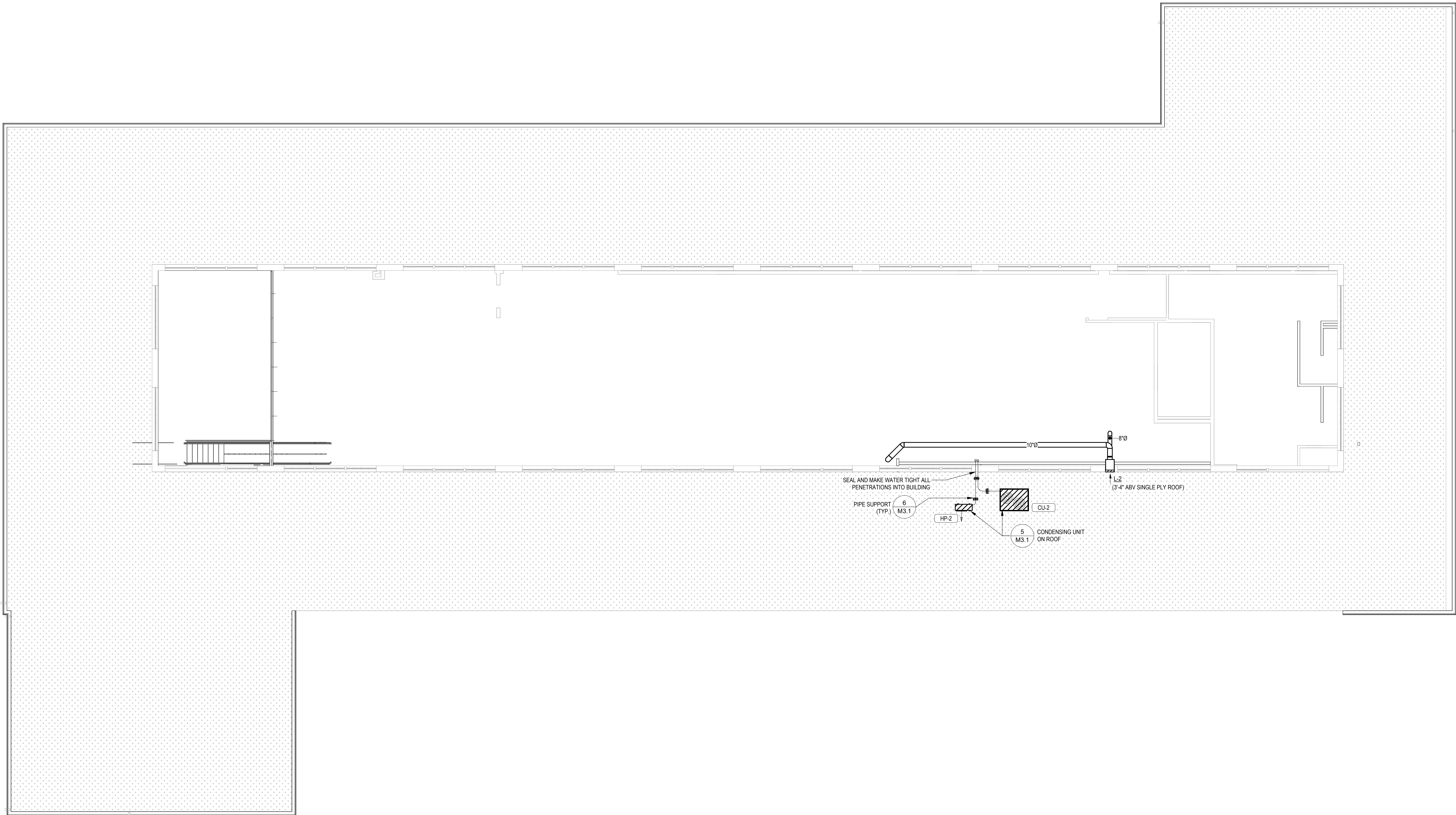


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PROJECT NO: 25060
DRAWN BY: DBA
REV:

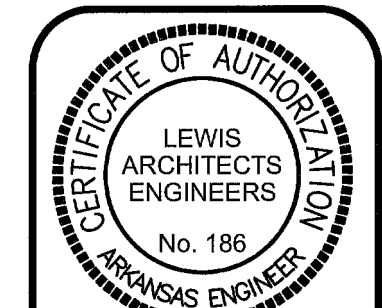
M1.2

FLOOR PLAN - HVAC

LEWIS ARCHITECTS ENGINEERS
ELLIOTT • MCMORRAN • VADEN
RAGSDALE • WOODWARD • INCORPORATED
501 223 9302 • WWW.LEWVAV.COM



DATE: 2025-10-23
PROJECT NO: 25060
DRAWN BY: DBA
REV:



MANUFACTURING BUILDING
INDUSTRY TECHNOLOGY
RENOVATION
SOUTHERN ARKANSAS UNIVERSITY TECH
CAMDEN, ARKANSAS

ROOF PLAN - HVAC

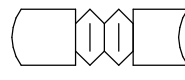
MECHANICAL GENERAL NOTES

- DUE TO THE SMALL SCALE OF THIS DRAWING, IT IS NOT POSSIBLE TO INDICATE ALL OFFSETS, FITTINGS AND ACCESSORIES WHICH MAY BE REQUIRED. THE CONTRACTOR SHALL INVESTIGATE THE STRUCTURAL AND FINISH CONDITIONS AFFECTING THE WORK AND SHALL COORDINATE AND ARRANGE HIS WORK ACCORDINGLY.
- DUCT SIZES INDICATED ON PLANS ARE ACTUAL SHEET METAL SIZES AND DO ALLOW FOR INTERNAL INSULATION OF RECTANGULAR DUCT, IF APPLICABLE.
- ROUND BRANCH DUCT RUNOUTS SHALL BE SAME SIZE AS DIFFUSER THROAT UNLESS OTHERWISE NOTED.
- MOUNT ALL TEMPERATURE SENSORS &/OR THERMOSTATS AT 48" TO TOP OF BOX.
- FLEXIBLE DUCT MAY BE USED FOR FINAL CONNECTIONS TO DIFFUSERS. A MAXIMUM LENGTH OF THREE FEET (3') SHALL BE USED.
- ALL CEILING-MOUNTED SUPPLY DIFFUSERS SHALL HAVE FOUR-WAY (4-WAY) PATTERN UNLESS OTHERWISE INDICATED.
- WHERE SPLITTER DAMPERS ARE LOCATED ABOVE NON-ACCESSIBLE CEILINGS, PROVIDE EXTENDED CONTROL ROD AND REGULATOR AS SPECIFIED.
- WHERE MANUAL DAMPERS ARE INSTALLED IN EXTERNALLY INSULATED DUCTWORK, PROVIDE STAND-OFF BRACKET TO PREVENT COMPRESSION OF INSULATION BY DAMPER OPERATOR HANDLE.
- PROVIDE TURNING VANES IN ALL 90-DEGREE ELBOWS, UNLESS NOTED OTHERWISE.
- INTERNALLY INSULATE ALL RECTANGULAR SUPPLY AND RETURN DUCTWORK UNLESS NOTED OTHERWISE.
- EXHAUST DUCTWORK SHALL BE UNINSULATED, UNLESS OTHERWISE NOTED.
- EXTERNALLY INSULATE LOW-VELOCITY ROUND RUNOUT DUCTWORK.
- INSULATE THE TOP OF ALL SUPPLY AIR DIFFUSERS WITH A MINIMUM OF 1/2" THICK FIBERGLASS DUCT WRAP.
- INSULATE ALL PIPING, DUCTS, AND EQUIPMENT, WHETHER INDICATED OR NOT, WHICH ARE SUBJECT TO FREEZING OR CONDENSATION FORMATION.
- INSTALL REFRIGERANT PIPING IN ACCORDANCE WITH EQUIPMENT MANUFACTURER'S INSTRUCTIONS.
- VERIFY WITH EXISTING CEILING FOR EXACT LOCATION OF DIFFUSERS.
- COORDINATE LOCATION OF DUCTS AND DIFFUSERS WITH STRUCTURAL FRAMING MEMBER. OFFSET DUCTS AS REQUIRED TO CLEAR STRUCTURAL MEMBERS.
- COORDINATE LOCATIONS AND ELEVATION OF DUCT RUNS WITH PLUMBING AND ELECTRICAL CONTRACTORS.
- COORDINATE EQUIPMENT ELECTRICAL REQUIREMENTS WITH ELECTRICAL CONTRACTOR.
- COORDINATE GAS REQUIREMENTS WITH PLUMBING CONTRACTOR.
- SCREWS TO SECURE AIR DEVICES SHALL BE PAINTED HEAD TYPE PROVIDED BY DEVICE MANUFACTURER. ANY OTHER TYPE USED WILL BE REPLACED WITH PROPER SCREW BEFORE ACCEPTANCE.
- INSURE 10'-0" MINIMUM CLEARANCE BETWEEN FRESH AIR INTAKE VENTILATORS AND VENTS FOR FURNACE/PLUMBING AND EXHAUST VENTILATORS.

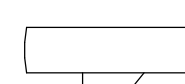
HVAC SEISMIC NOTES

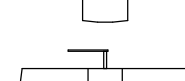
- SAU TECH REMODEL IS CLASSIFIED AS SEISMIC DESIGN CATEGORY B AND RISK CATEGORY II WITH A COMPONENT IMPORTANCE FACTOR OF (Ip) = 1.0.
- THE CONTRACTOR SHALL BE FAMILIAR WITH THE 2021 INTERNATIONAL BUILDING CODE (IBC) AND ARKANSAS AMENDMENTS SUCH THAT THE SYSTEMS AND THE COMPONENTS ARE INSTALLED TO COMPLY.
- BECAUSE THE COMPONENTS OF THESE FACILITIES HAVE A COMPONENT IMPORTANCE FACTOR (Ip) = 1.0, THE MECHANICAL COMPONENTS ARE EXEMPT FROM THE REQUIREMENTS OF THE SECTION.

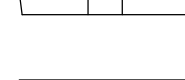
MECHANICAL LEGEND

 FLEXIBLE DUCT CONNECTION

 TURNING VANES

 RECTANGULAR TO ROUND DUCT TAKE-OFF (SEE DETAIL)

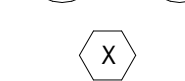
 MANUAL DAMPER

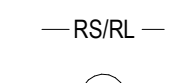
 FABRIC DUCT

 FULL RADIUS ELBOW

 DETAIL NUMBER - TOP NUMBER INDICATES DETAIL NUMBER
BOTTOM NUMBER INDICATES SHEET NUMBER

 GRILLE OR DIFFUSER DESIGNATION - SEE SCHEDULE

 REFRIGERANT PIPING (SUCTION AND LIQUID)

 T-STAT

HVAC ABBREVIATIONS

(SEE SHT T-1 FOR GENERAL ABBREVIATIONS)

A.F.F.	ABOVE FINISHED FLOOR
ABL	ABOVE
CFM	CUBIC FEET PER MINUTE
DISCH.	DISCHARGE
DN	DOWN
MIN.	MINIMUM
OSA	OUTSIDE AIR
PLUMB.	PLUMBING
R.A.	RETURN AIR
S.A.	SUPPLY AIR
T-STAT	THERMOSTAT
U.N.O.	UNLESS NOTED OTHERWISE
WI	WITH
I.D.	INTERNAL DIAMETER
EXT. INSUL.	EXTERNALLY INSULATED
INT. INSUL.	INTERNALLY INSULATED
C.O.	CLEAN OUT
A.A.V	AIR ADMITTANCE VALVE

SEQUENCE OF OPERATION

- GENERAL**
A. OCCUPIED/UNOCCUPIED MODE SHALL BE DETERMINED BY OWNER/OPERATOR BASED ON A WEEKLY SCHEDULE WITH EVENT AND HOLIDAY OVERRIDE SCHEDULES.
- DUCTLESS SPLIT HEATING/COOLING UNITS (CC-1 & 2)**
A. UNIT SHALL BE CONTROLLED BY WALL MOUNTED MANUFACTURER SUPPLIED CONTROLLER SET FOR 75°F COOLING / 70°F HEATING (ADJUSTABLE).
B. OCCUPIED MODE
a. BLOWER SHALL CYCLE ON DEMAND FOR HEATING OR COOLING.
b. 75°F COOLING/70°F HEATING (ADJUSTABLE).
c. 7:00 AM TO 6:00 PM (M-F) (ADJUSTABLE).
C. UNOCCUPIED MODE
a. BLOWER SHALL CYCLE ON DEMAND FOR HEATING OR COOLING.
b. 84°F COOLING/82°F HEATING (ADJUSTABLE).
- SPLIT HEATING/COOLING UNITS (F-1A, 1B, 2A, 2B, 3)**
A. UNIT SHALL BE CONTROLLED BY WALL MOUNTED MANUFACTURER SUPPLIED CONTROLLER SET FOR 75°F COOLING / 70°F HEATING (ADJUSTABLE).
B. OCCUPIED MODE
a. BLOWER SHALL CYCLE ON DEMAND FOR HEATING OR COOLING.
b. 75°F COOLING/70°F HEATING (ADJUSTABLE).
c. 7:00 AM TO 6:00 PM (M-F) (ADJUSTABLE).
C. UNOCCUPIED MODE
a. BLOWER SHALL CYCLE ON DEMAND FOR HEATING OR COOLING. 84°F COOLING/82°F HEATING (ADJUSTABLE).
- EXHAUST FANS (EF-1 & 2)**
A. SHALL BE ACTIVATED BY LIGHT SWITCH IN CORRESPONDING SPACE.

AIR DEVICE SCHEDULE

MARK	MANUFACTURER	MODEL	TYPE	MODULAR SIZE	NECK SIZE	FINISH	ACCESSORIES	NOTES
A	PRICE	AMD	LOUVER CEILING SUPPLY	24" X 24"	9" X 9" 8"Ø	WHITE	SR8E	LAY IN
B	PRICE	AMD	LOUVER CEILING SUPPLY	24" X 24"	12" X 12" 10"Ø	WHITE	SR8E	LAY IN
C	PRICE	AMD	LOUVER CEILING SUPPLY	24" X 24"	18" X 18" 12"Ø	WHITE	SR8E	LAY IN
D	PRICE	80	CUBE CORE CEILING RETURN	24" X 24"	22" X 22" 10"Ø	WHITE	SR2	LAY IN
E	PRICE	93	HEAVY DUTY SIDEWALL RETURN	-	30"W X 12"H	WHITE	1/2" SPACING 45 DEG. DEFLECTION	14 GAUGE BLADES PARALLEL TO LONG DIMENSION
F	PRICE	93	HEAVY DUTY SIDEWALL RETURN	-	48"W X 12"H	WHITE	1/2" SPACING 45 DEG. DEFLECTION	14 GAUGE BLADES PARALLEL TO LONG DIMENSION
L-1	GREENHECK	ESD-635	EXHAUST / INTAKE LOUVER	-	18"W X 18"H	NOTE 4	-	0.8 FT2 FREE AREA
L-2	GREENHECK	ESD-635	EXHAUST / INTAKE LOUVER	-	36"W X 12"H	NOTE 4	-	0.69 FT2 FREE AREA
L-3	GREENHECK	ESD-635	EXHAUST / INTAKE LOUVER	-	18"W X 30"H	NOTE 4	-	1.73 FT2 FREE AREA

- ACCESSORIES & NOTES:
- PROVIDE INSULATION BACKING FOR ALL SUPPLY DIFFUSERS.
 - PROVIDE DUCT MOUNTED OPPOSED BLADE DAMPER TO BALANCE RETURN AIR DUCTWORK.
 - CONTRACTOR TO VERIFY MOUNTING TYPE FOR ALL GRILLES WITH ARCH. CEILING PLANS PRIOR TO BID.
 - ALL LOUVERS TO HAVE FLANGES (4 SIDES) AND 2 COAT 70% KYNAR FINISH. COLOR SELECTED BY ARCHITECT PRIOR TO ORDERING.
 - PROVIDE LOUVERS L-1 & L-3 WITH INSECT SCREEN

EXHAUST FANS SCHEDULE

MARK	MANUFACTURER	MODEL	TYPE	CFM	E S P (IN W.G.)	VOLTAGE / PHASE	FAN HP (HP OR WATTS)	SONES	CONTROL POINT	NOTES
EF-1	GREENHECK	SP-A390	CEILING	300	0.3	120/1	135.0	3.0	LIGHTS	1, 2, 3
EF-2	GREENHECK	SP-A390	CEILING	300	0.3	120/1	135.0	3.0	LIGHTS	1, 2, 3

- ACCESSORIES & NOTES:
- PROVIDE HANGING RODS AND VIBRATION ISOLATORS AS REQUIRED.
 - PROVIDE FACTORY MOUNTED SOLID STATE SPEED CONTROLLER AT FAN, INTERNAL DISCONNECT AND BACKDRAFT DAMPER.
 - PROVIDE W/ WHITE ALUMINUM CEILING GRILLE.

CONDENSING UNIT AND COOLING COIL SCHEDULE

MARK	MANUFACTURER	MODEL	COOLING COIL	NOMINAL TONNAGE	COOLING CAPACITY TOTAL / SENSIBLE (MBH)	COOLING STAGES	EER	VOLTAGE / PHASE	MCA / MOCP
CU-1	CARRIER	38AX2M08A0A5	ABM06	7.5	105.5 / 75.5	2	11.2	460 / 3	17 / 26
CU-2	CARRIER	38AX2M12A0A5	ABM120	10	147 / 101.7	2	11.2	460 / 3	21 / 30
CU-3	CARRIER	26TPA880W003	CVAVA8124XMA	5	58.3 / 42	2	12.0	208 / 1	30.5 / 50

- ACCESSORIES & NOTES:
- PROVIDE W/ EVAPORATOR FREEZE THERMOSTAT, LOUVERED COIL GUARDS, CRANKCASE HEATER, SIGHT GLASS, FILTER DRYER & LOW AMBIENT.

FURNACE UNIT SCHEDULE

MARK	MANUFACTURER	MODEL	NOMINAL TONNAGE	SUPPLY CFM	FRESH AIR CFM	HEATING INPUT / OUTPUT (MBH)	HEATING STAGES	VOLTAGE / PHASE	MCA / MOCP
F-1A & 1B	CARRIER	59TP08100V21**20	3.75	1500	300	100 / 78	2	120 / 1	11.3 / 20
F-2A & 2B	CARRIER	59TP08120V24**22	5	2000	400	120 / 117	2	120 / 1	12.6 / 20
F-3	CARRIER	59TP0C120V24**22	5	2000	200	120 / 117	2	120 / 1	12.6 / 20

- ACCESSORIES & NOTES:
- PROVIDE UNITS WITH FILTER BASE EQUAL TO EZ-FILTER BASE MFG. (SIZED FOR UNIT) & 2" PLEATED MERV 8 FILTER.
 - PROVIDE ALL UNITS WITH CONCENTRIC VENT KIT.
 - PROVIDE TWINNING KITS FOR F-1A & 1B AND F-2A & 2B.
 - PROVIDE (3) CONDENSATE PUMPS (CP-1) - LITTLE GIANT MODEL VCL-14ULS, 1/50 HP, 120V, 1 GAL RESERVOIR, 3/8" DISCHARGE.

MINI SPLIT OUTDOOR UNIT SCHEDULE

MARK	MANUFACTURER	MODEL	MAX. COOLING CAPACITY (MBH)	MAX. HEATING CAPACITY (MBH)	SEER	VOLTAGE / PHASE	MCA / MOCP	MATCH WITH
HP-1	LG	KUSXB121A	12.4	16.5	21.5	208/1	13.4 / 15	CC-1
HP-2	LG	KNSCB361A	44.0	46.0	23.5	208/1	32 / 35	CC-2

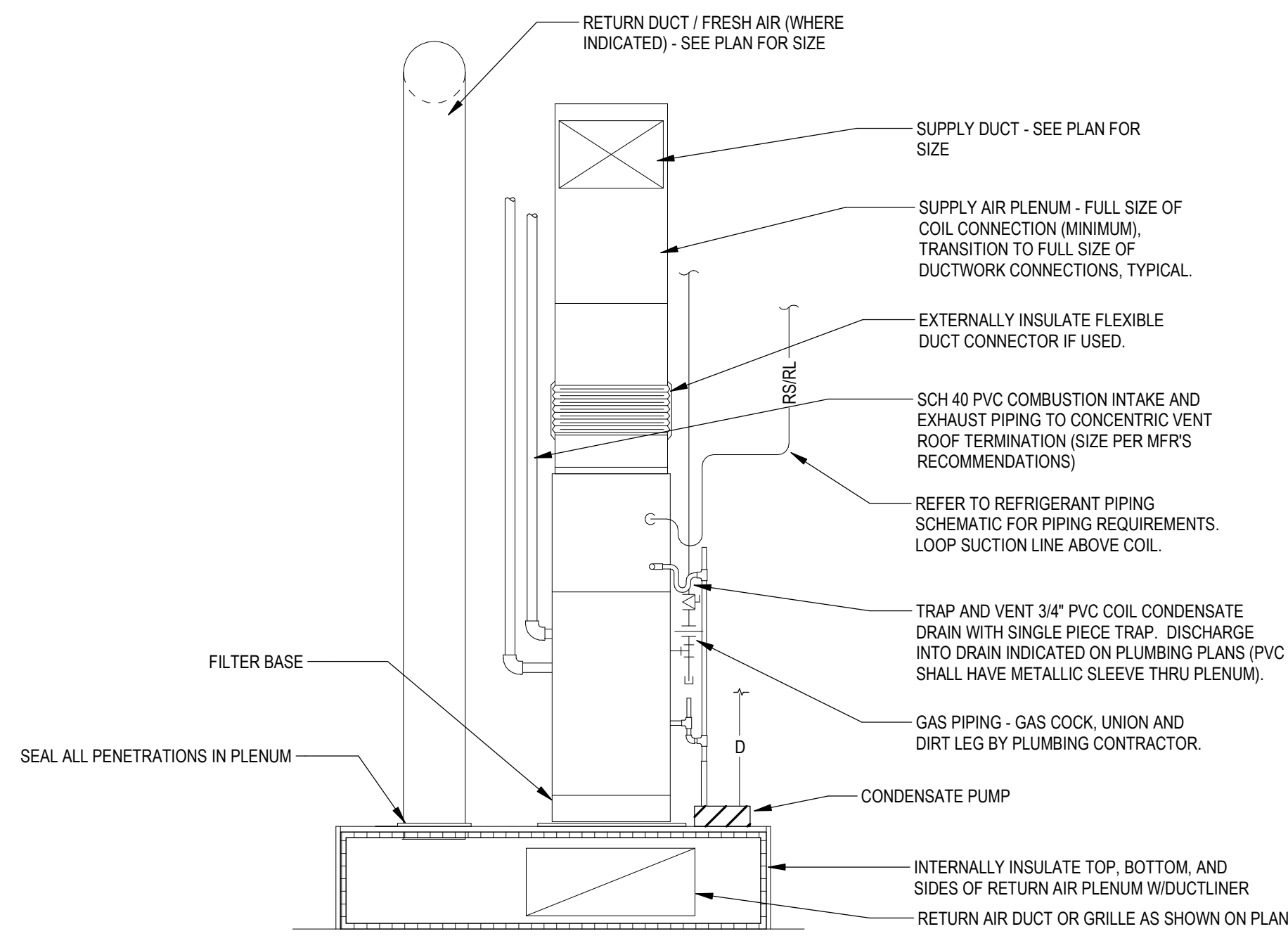
- ACCESSORIES & NOTES:
- PROVIDE W/ WINTER START KIT, CRANKCASE HEATER & WIND BAFFLE FOR LOW AMBIENT.

MINI SPLIT INDOOR UNIT SCHEDULE

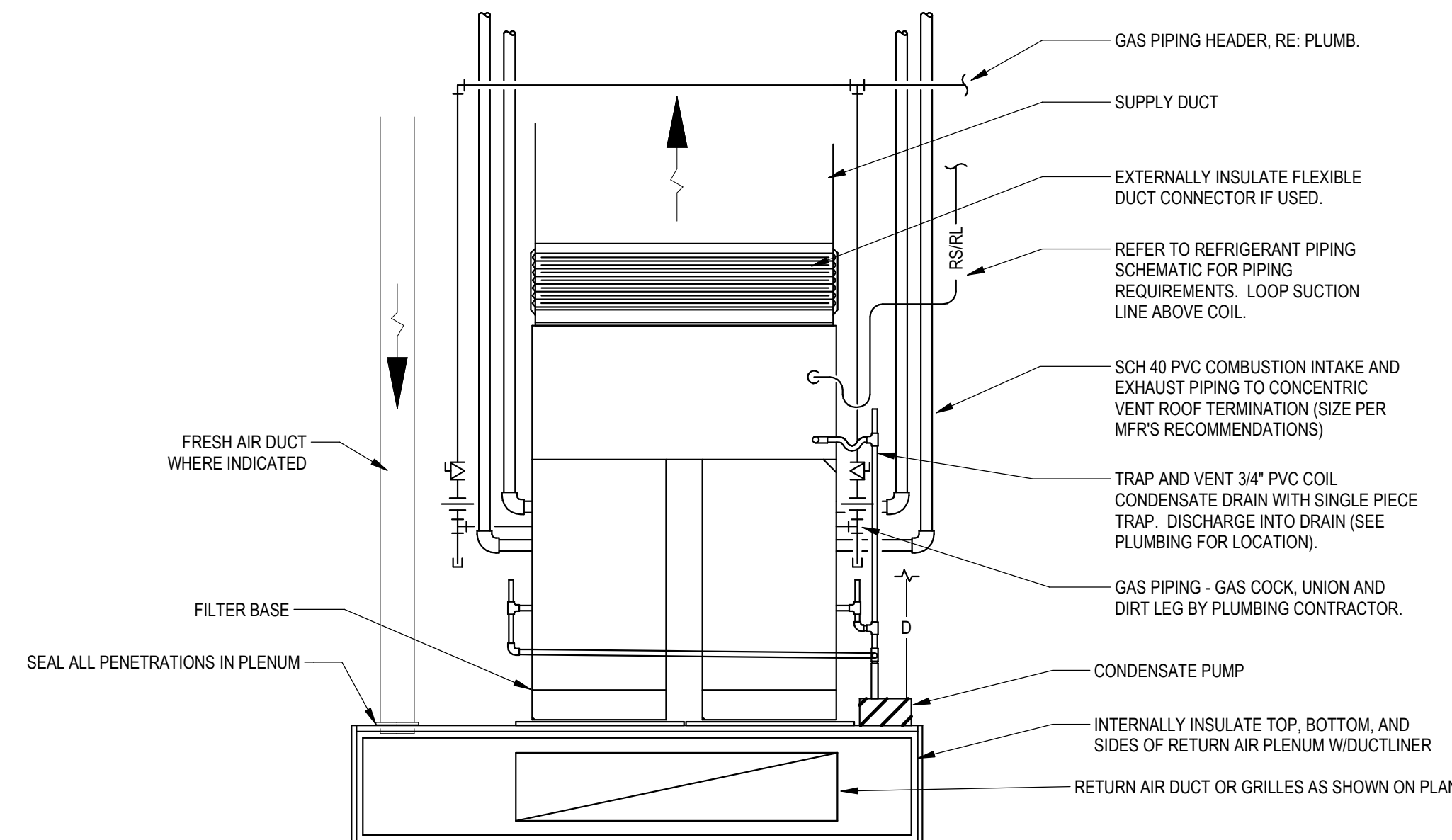
MARK	MANUFACTURER	MODEL	TYPE	CFM	VOLTAGE / PHASE	MCA / MOCP	MATCH WITH
CC-1	LG	KNU0B121A	CEILING CASSETTE	247 - 335	208/1	-	HP-1
CC-2	LG	KUSXA361A	CEILING CASSETTE	794 - 971	208/1	-	HP-2

- ACCESSORIES & NOTES:
- INDOOR UNIT POWERED FROM OUTDOOR UNIT UNLESS NOTED.
 - PROVIDE INTEGRAL CONDENSATE PUMP.

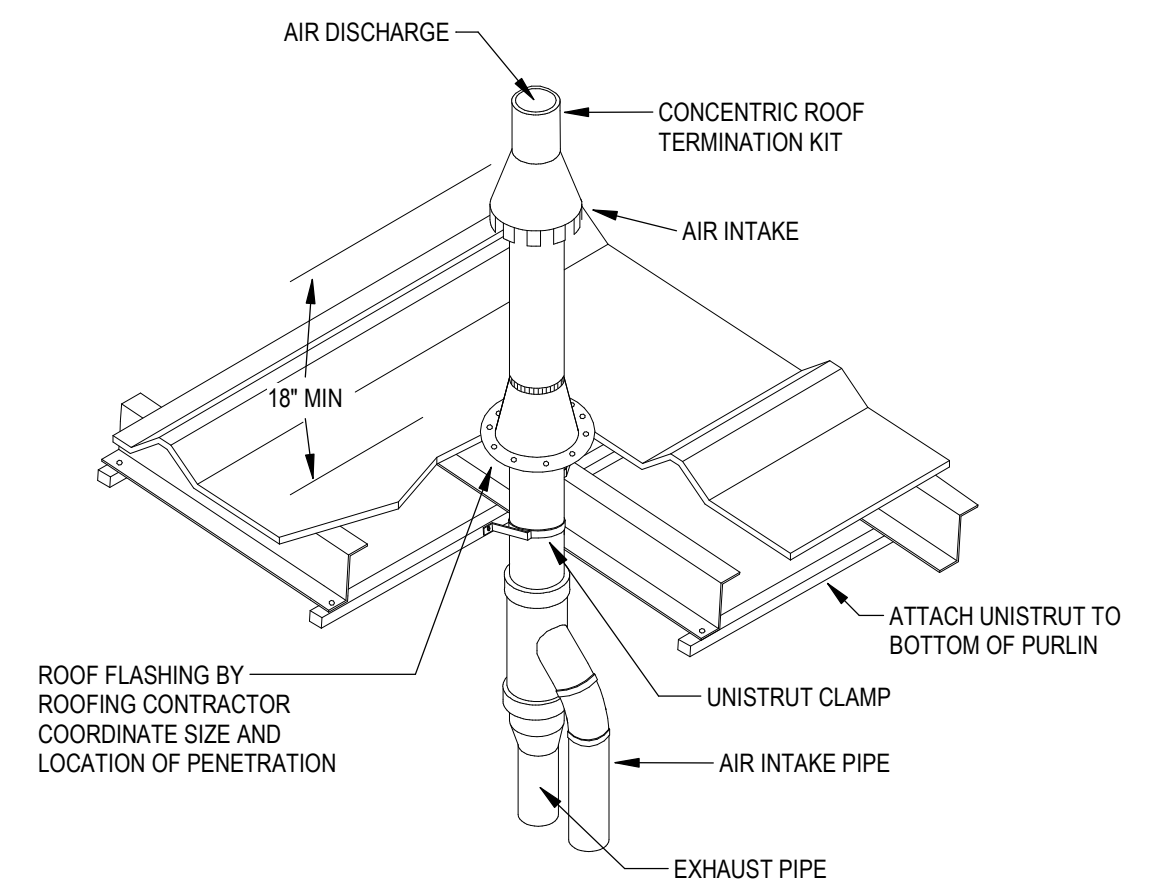
NOTES:
1. EQUAL MANUFACTURER SELECTIONS TO ENGINEER SPECIFIED:
SPLIT SYSTEMS - TRANE, LENNOX
MINI-SPLITS - SAMSUNG, MITSUBISHI
EXHAUST FANS - COOK, TWIN CITY
GRILLES - TITUS, KRUEGER
LOUVERS - POTTORFF, RUSKIN
FABRIC DUCT - FABRICAIR



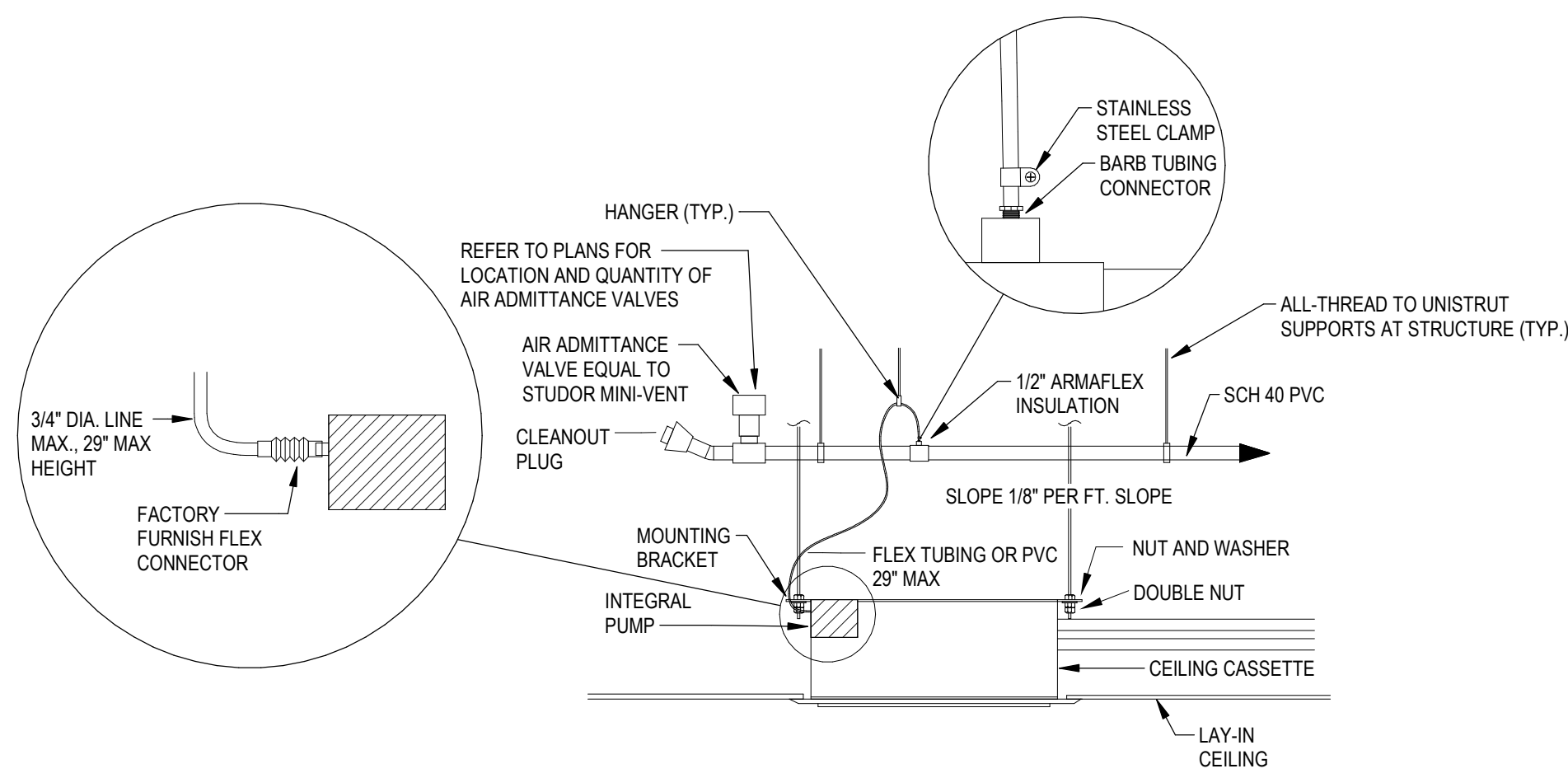
1
M3.1
FURNACE ELEVATION
NOT TO SCALE



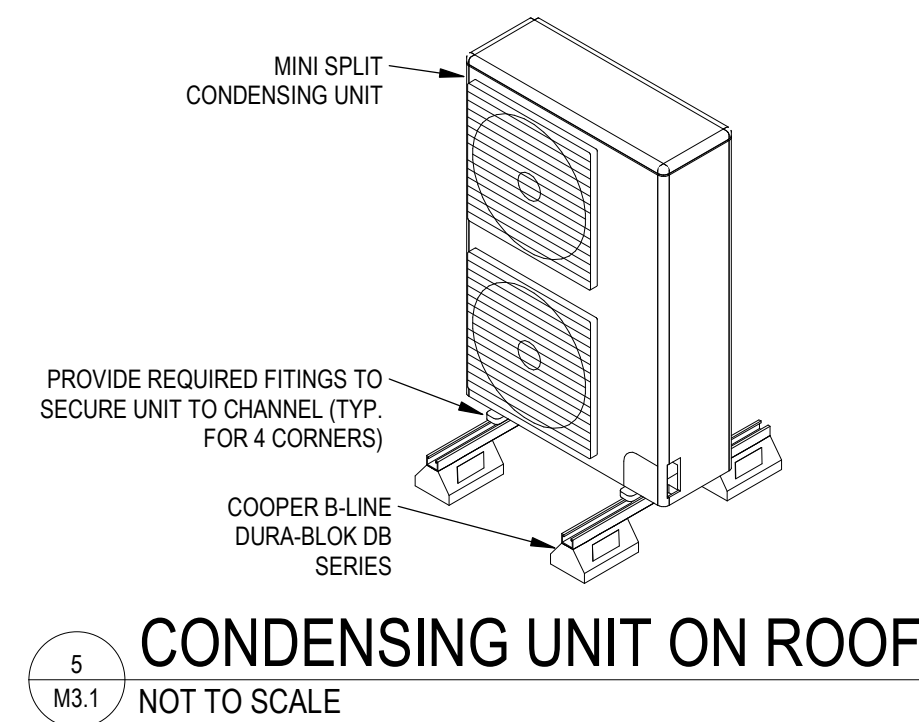
2
M3.1
TWINNED FURNACE ELEVATION
NOT TO SCALE



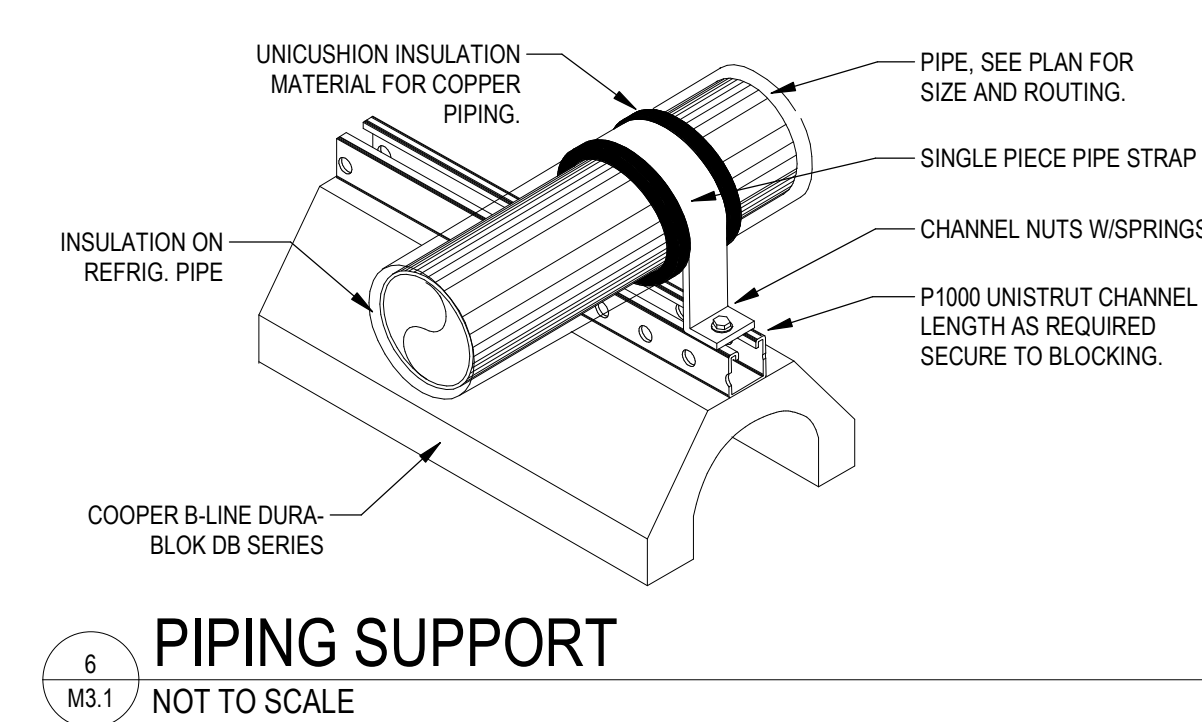
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M3.1
VENT THRU ROOF
NOT TO SCALE



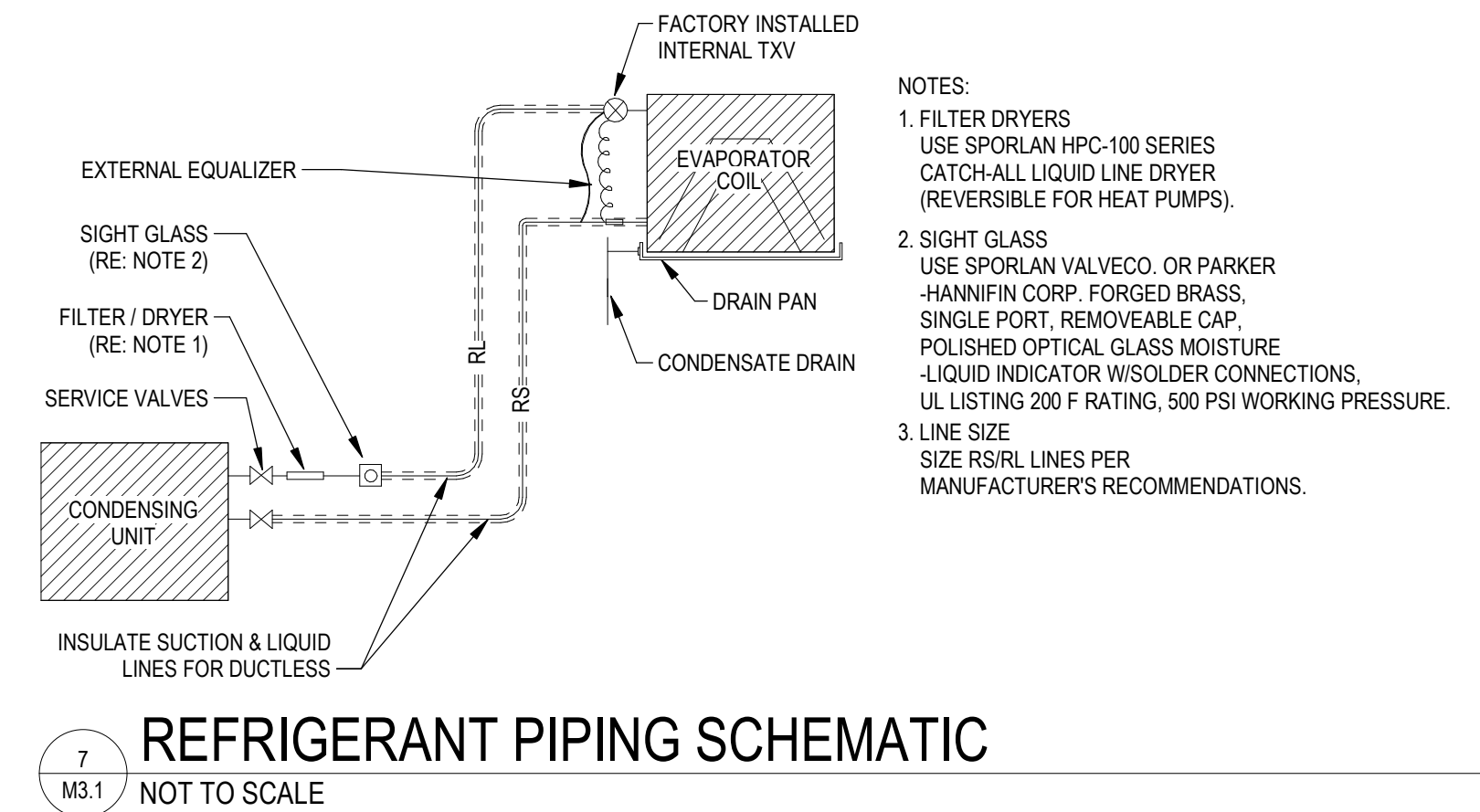
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M3.1
CEILING CASSETTE
NOT TO SCALE



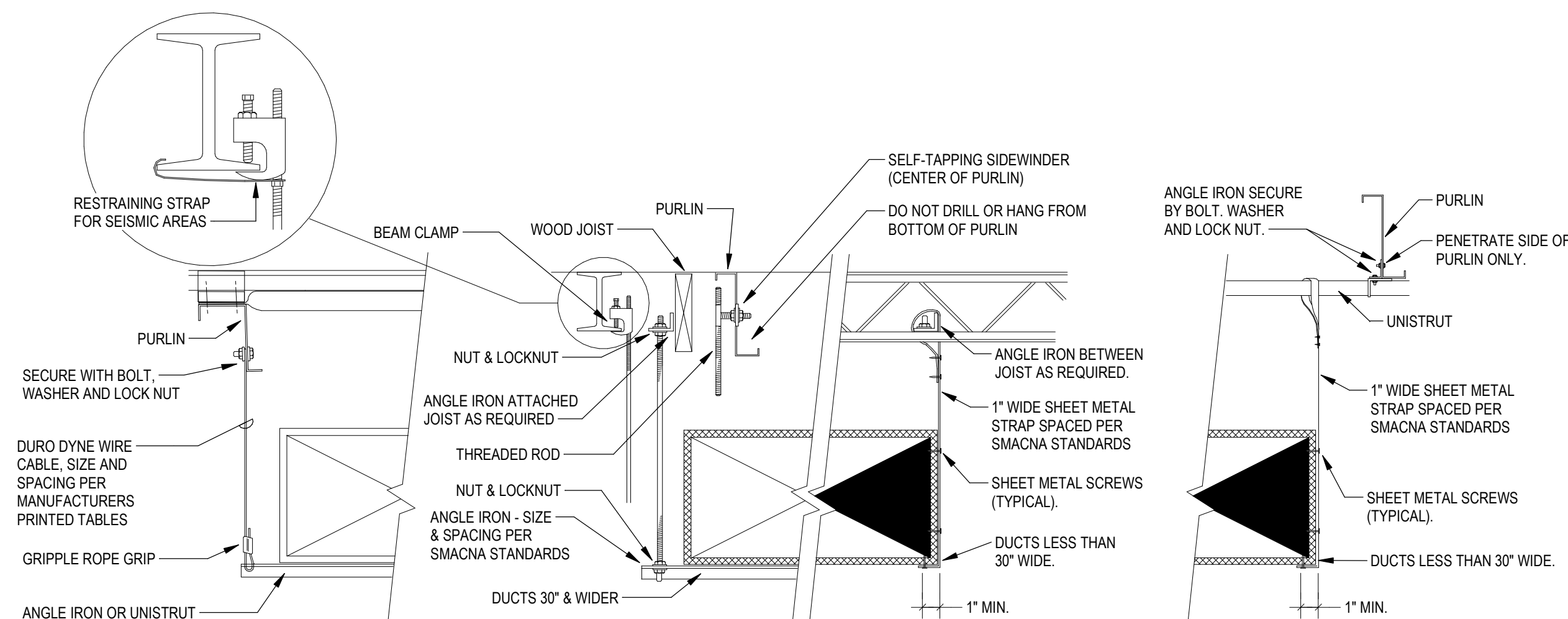
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M3.1
CONDENSING UNIT ON ROOF
NOT TO SCALE



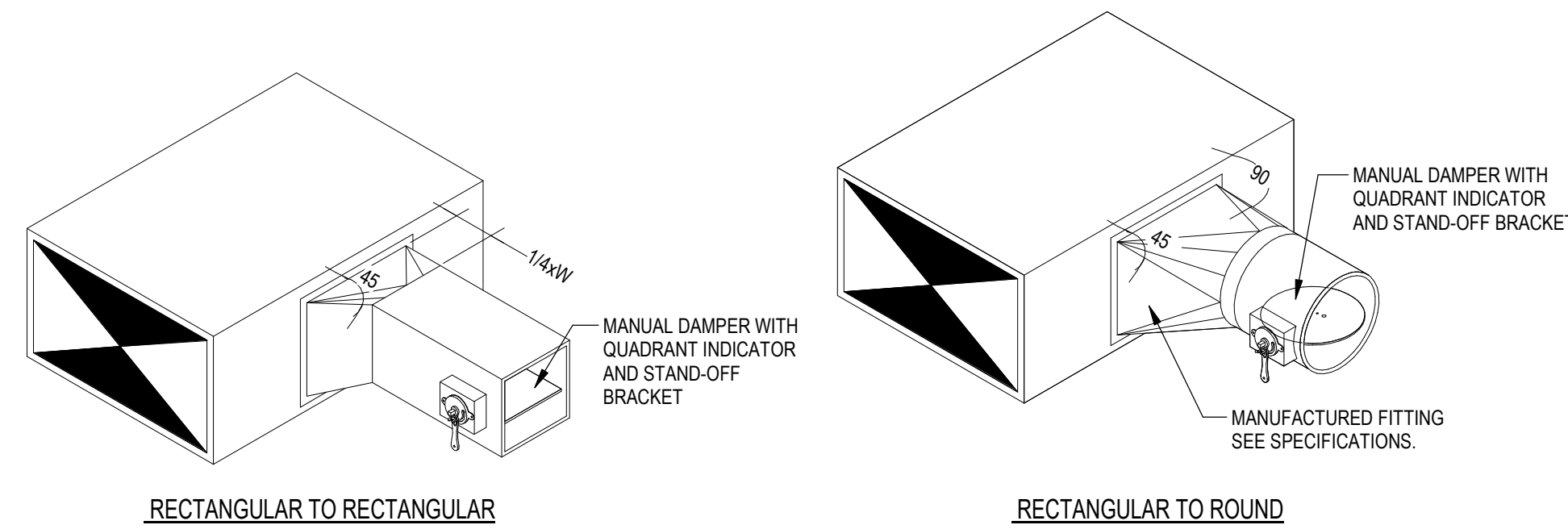
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M3.1
PIPING SUPPORT
NOT TO SCALE



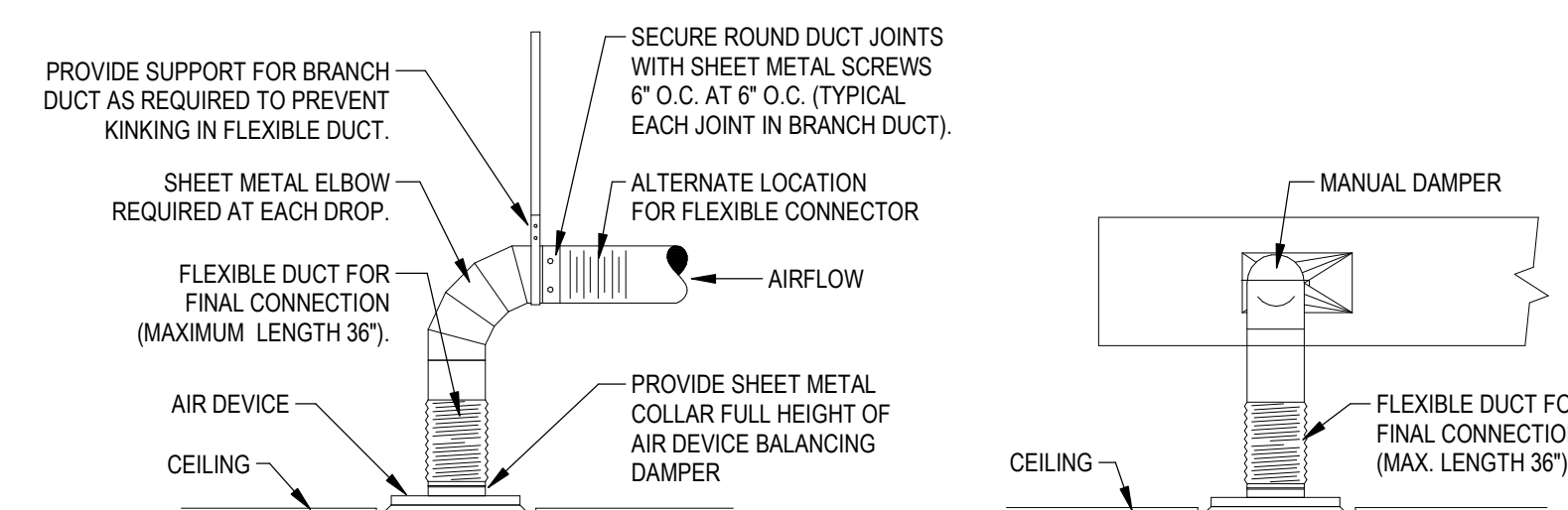
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M3.1
REFRIGERANT PIPING SCHEMATIC
NOT TO SCALE



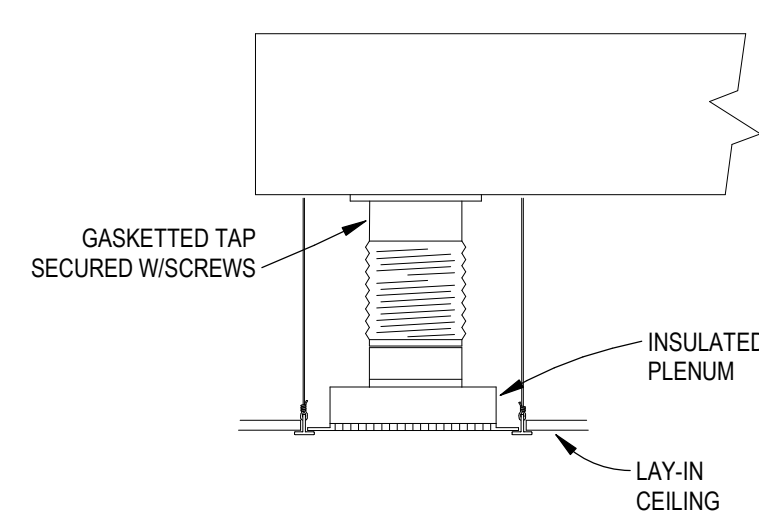
8
M3.1
DUCT SUPPORT
NOT TO SCALE



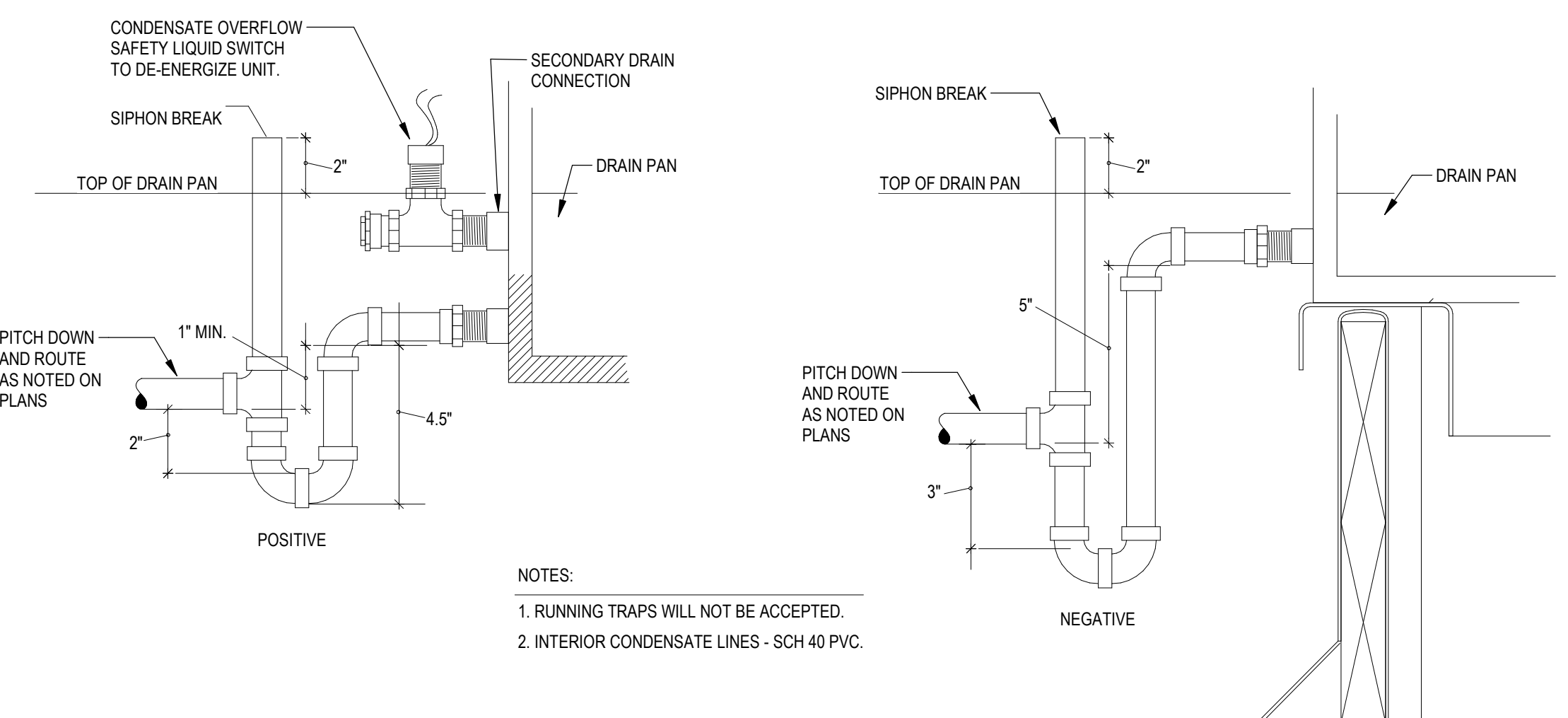
9
M3.1
DUCT TAKE-OFF DETAIL
NOT TO SCALE



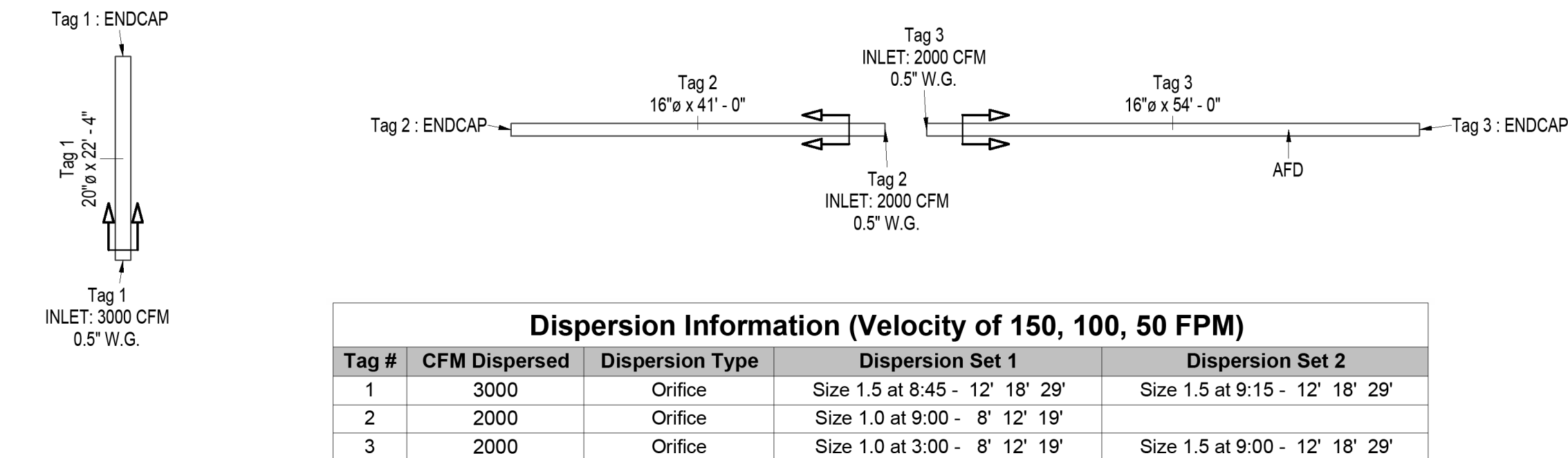
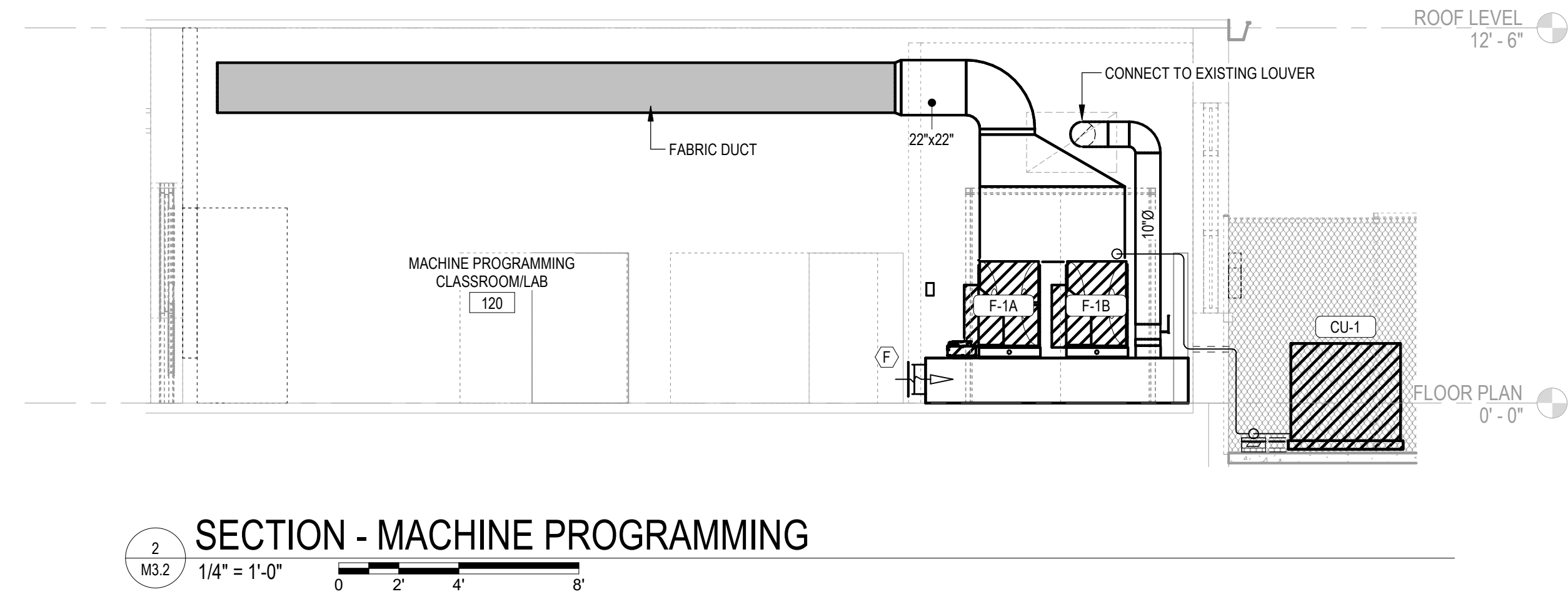
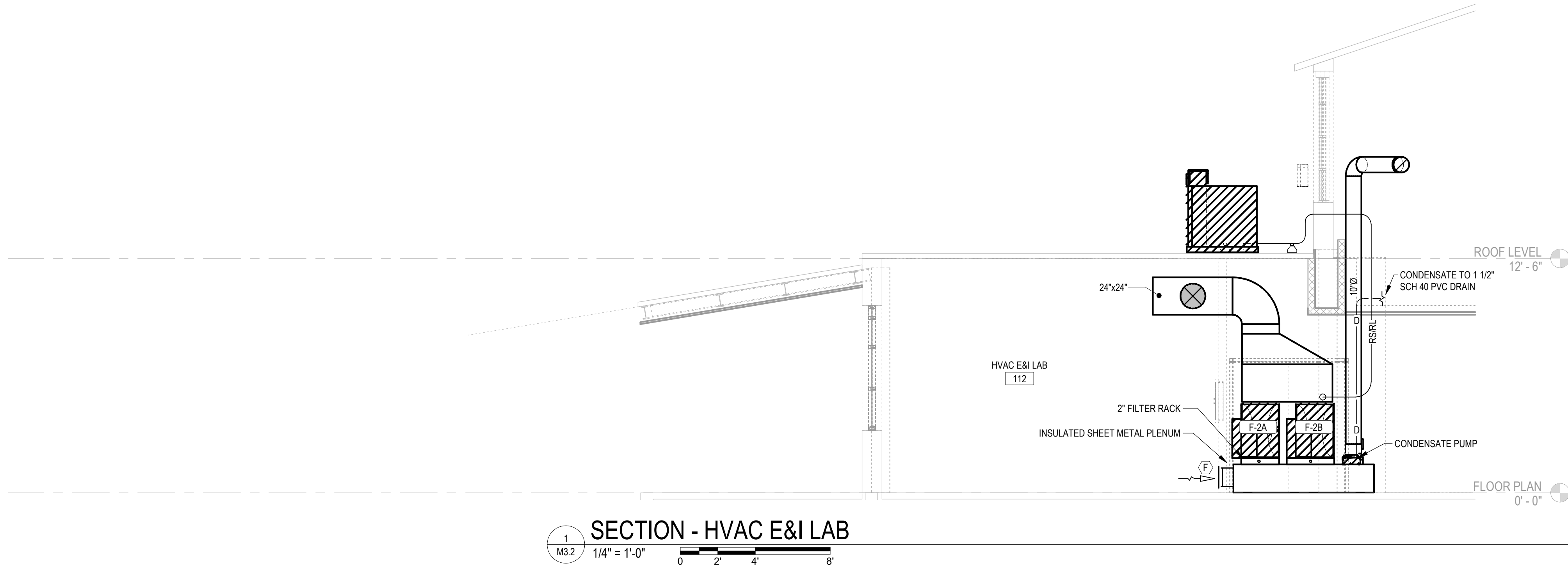
10
M3.1
DIFFUSER CONNECTION DETAIL
NOT TO SCALE



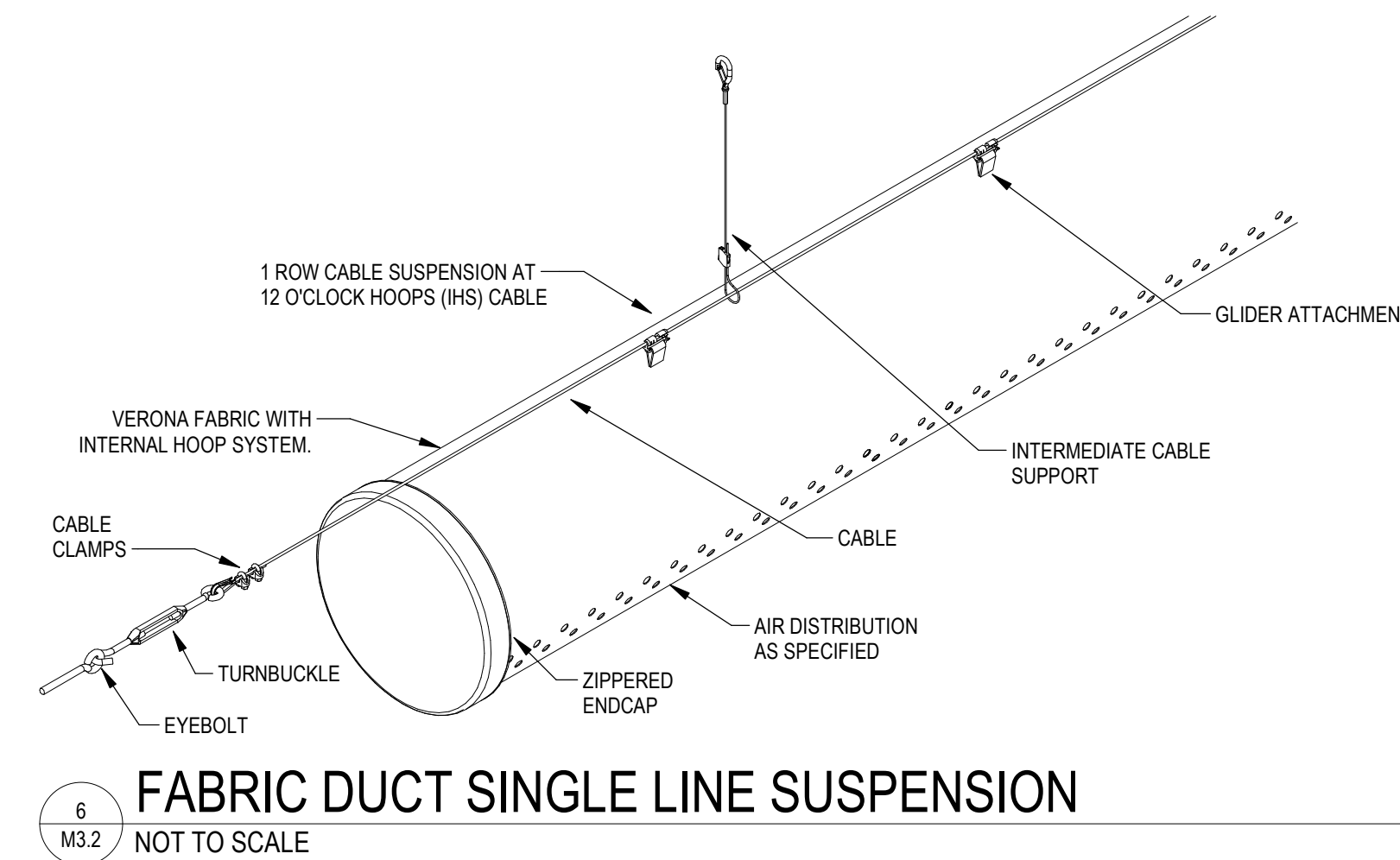
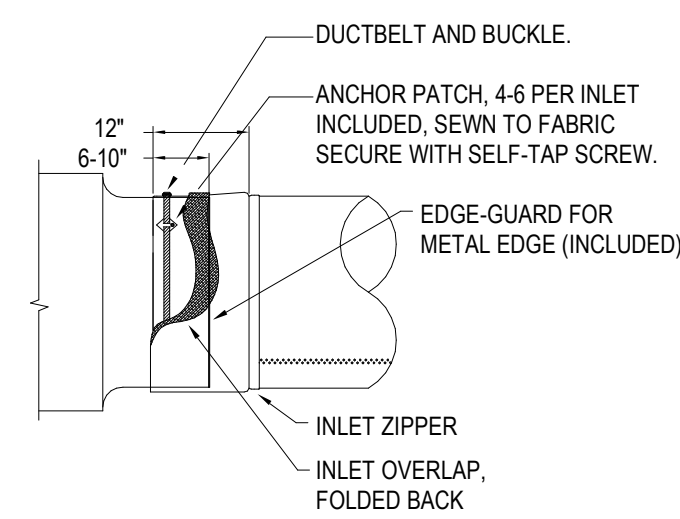
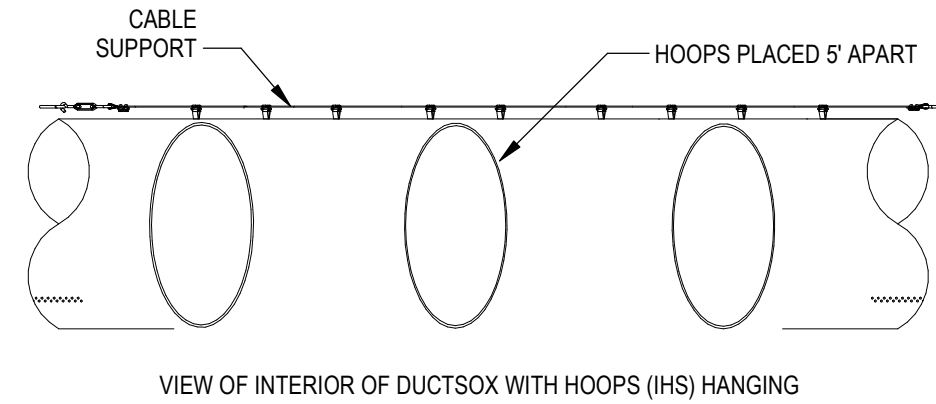
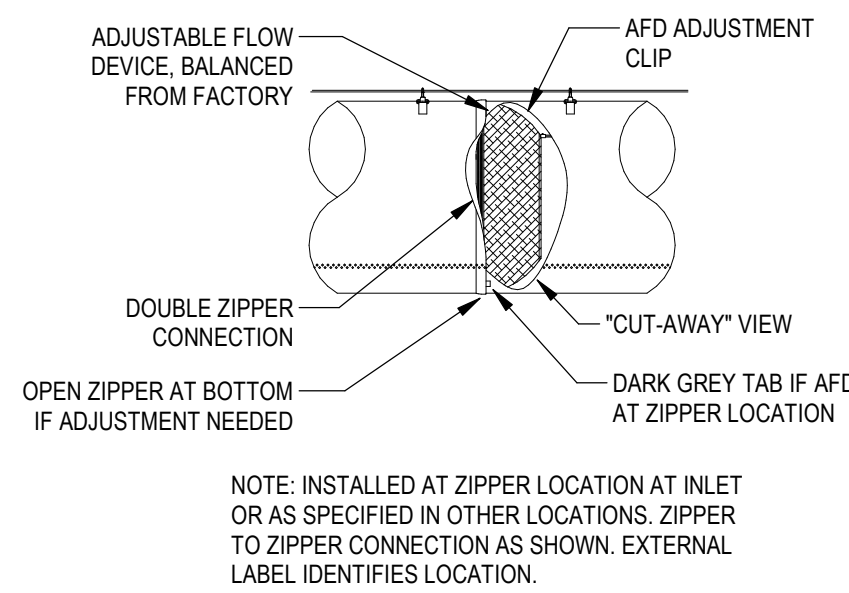
11
M3.1
CEILING RETURN/EXHAUST
NOT TO SCALE



12
M3.1
CONDENSATE TRAP DETAIL
NOT TO SCALE



Dispersion Information (Velocity of 150, 100, 50 FPM)				
Tag #	CFM Dispersed	Dispersion Type	Dispersion Set 1	Dispersion Set 2
1	3000	Orifice	Size 1.5 at 8:45 - 12' 18' 29'	Size 1.5 at 9:15 - 12' 18' 29'
2	2000	Orifice	Size 1.0 at 9:00 - 8' 12' 19'	
3	2000	Orifice	Size 1.0 at 3:00 - 8' 12' 19'	Size 1.5 at 9:00 - 12' 18' 29'

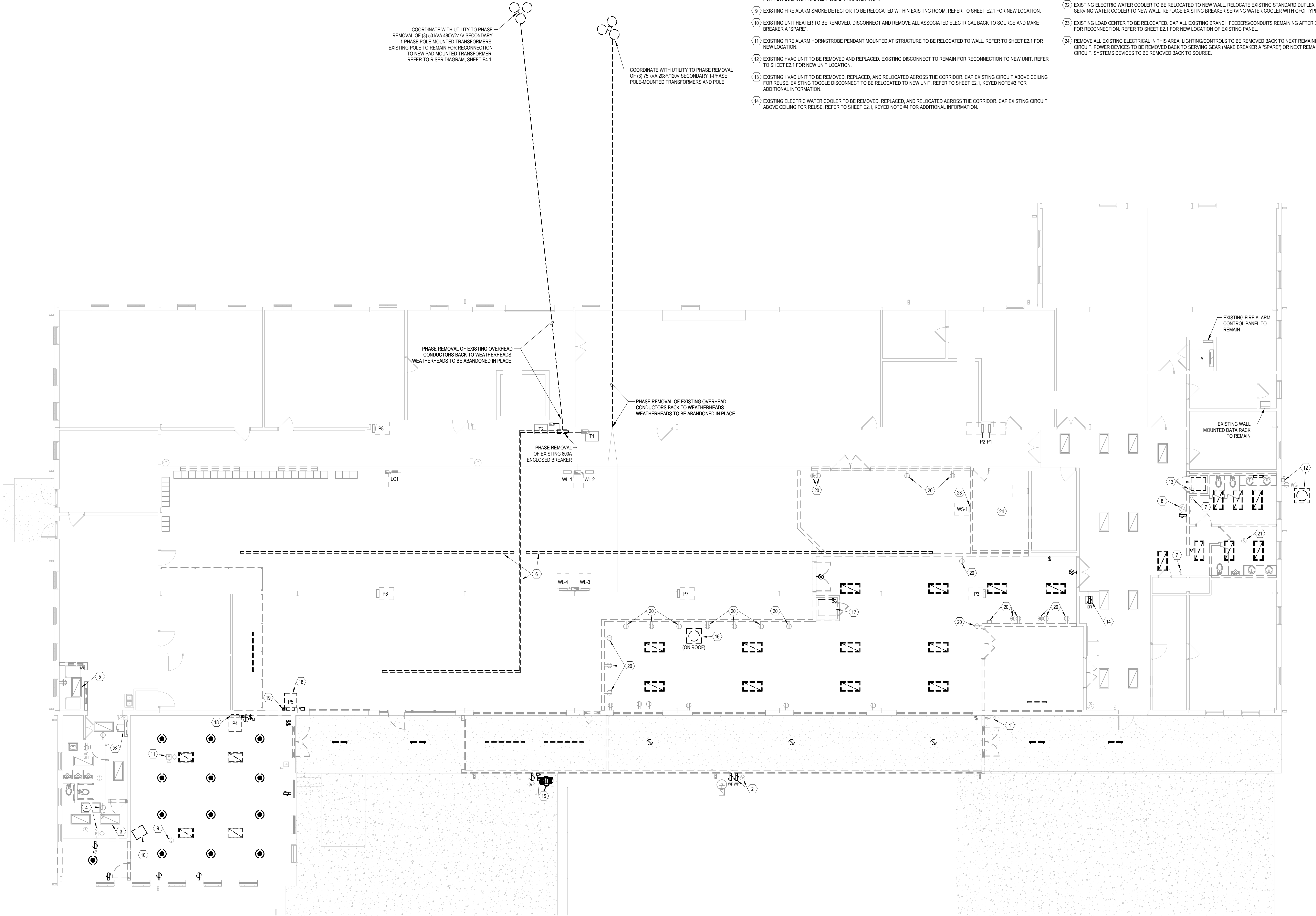


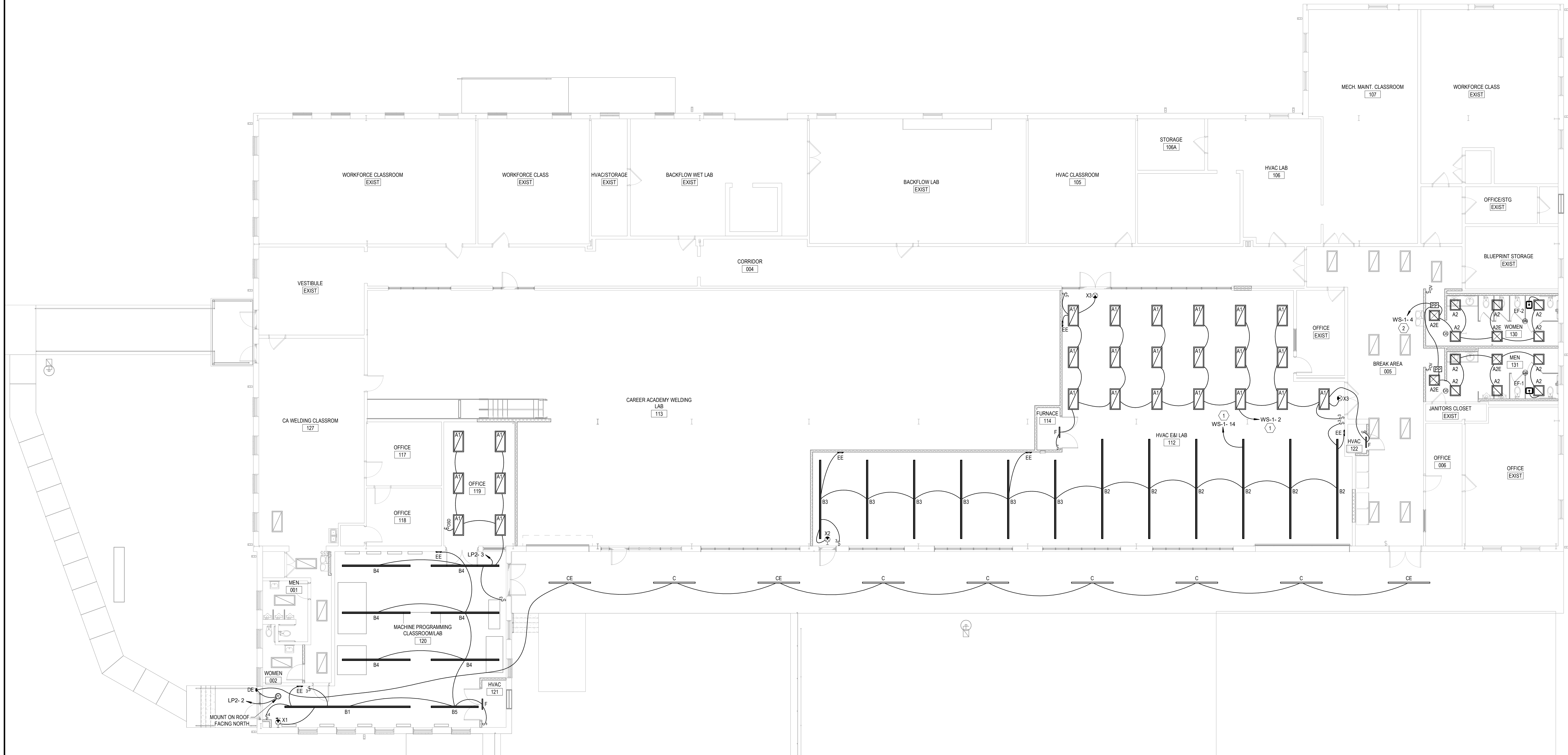
GENERAL ELECTRICAL DEMOLITION NOTES:

1. ALL SALVAGEABLE ITEMS SUCH AS LIGHT FIXTURES, SURVEILLANCE & SECURITY EQUIPMENT, FIRE ALARM DEVICES, ETC. THAT ARE NOT TO BE REUSED SHALL BE TURNED OVER TO THE OWNER.
2. REFER TO ARCHITECTURAL PLANS FOR GENERAL DEMOLITION ITEMS SUCH AS CEILINGS, WALLS, ETC.
3. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER AS TO CONSTRUCTION SCHEDULING, SERVICE INTERRUPTIONS, AND ACCESS TO WORK AREAS.
4. ALL EXISTING BRANCH CIRCUITS NOT USED SHALL BE REMOVED BACK TO PANEL. THE CIRCUIT BREAKERS SHALL BE LABELED AS "SPARE" AND EXISTING CONDUIT SHALL REMAIN FROM PANEL TO ABOVE ACCESSIBLE CEILING SPACE.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DEMOLITION IN AREAS OF RENOVATION. ALL WIRING DEVICES, LIGHT FIXTURES, WIRE, AND CONDUIT THAT IS TO BE REMOVED SHALL BE STORED, AS DIRECTED BY THE OWNER, OR RELOCATED AS SHOWN ON THE NEW FLOOR PLAN.
6. APPROPRIATE MEASURES SHALL BE TAKEN TO ASSURE CONTINUITY OF EXISTING CIRCUITS WHERE REQUIRED, AND ALL OUTAGES WHICH MAY RESULT SHALL BE COORDINATED WITH THE OWNER PRIOR TO THE WORK.
7. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR UPDATING SCHEDULES IN ALL ELECTRICAL PANELS THAT ARE AFFECTED BY THIS WORK. UPDATED SCHEDULES ARE TO BE TYPEWRITTEN.

KEYED ELECTRICAL DEMOLITION NOTES:

1. EXISTING SURVEILLANCE CAMERA TO BE REPLACED AND RELOCATED TO ADJACENT REMAINING EXTERIOR WALL. REFER TO SHEET E2.1 FOR NEW LOCATION AND NEW CAMERA INFORMATION.
2. EXISTING PEDESTAL MOUNTED RECEPTACLES TO BE REMOVED BACK TO SOURCE OR NEXT REMAINING DEVICE ON CIRCUIT THAT IS WITHIN A WALL NOT BEING DEMOLISHED. EXISTING PHOTOCELL ASSOCIATED WITH ADJACENT POLE SITE LIGHT TO BE RELOCATED TO DOCK ROOF (FACING NORTH) AND RECONNECTED TO EXISTING 120V CIRCUIT AS REQUIRED.
3. EXISTING LIGHT FIXTURE TO BE RELOCATED TO NEW ADJACENT CORRIDOR. REFER TO SHEET E1.1 FOR NEW LOCATION.
4. EXISTING RECEPTACLE AND FIRE ALARM DEVICE TO BE RELOCATED WITHIN EXISTING RESTROOM. REFER TO SHEET E2.1 FOR NEW LOCATIONS.
5. EXISTING LIGHT FIXTURE TO BE RECONNECTED TO ADJACENT "CLASSROOM" AREA LIGHTING CIRCUIT AND CONTROLS.
6. EXISTING OVERHEAD BUS DUCT TO BE REMOVED IN ITS ENTIRETY. REMOVE BACK TO SOURCE.
7. INITIAL SURVEY COULD NOT DETERMINE WHAT EXISTING SWITCH CONTROLS. FIELD VERIFY. IF ABANDONED, REMOVE AS REQUIRED. IF STILL IN USE, COORDINATE WITH OWNER FOR NEW LOCATION OUTSIDE OF NEW RESTROOMS.
8. EXISTING SURVEILLANCE CAMERA TO BE REPLACED AND RELOCATED TO ADJACENT REMAINING CORRIDOR. REFER TO SHEET E2.1 FOR NEW LOCATION AND NEW CAMERA INFORMATION.
9. EXISTING FIRE ALARM SMOKE DETECTOR TO BE RELOCATED WITHIN EXISTING ROOM. REFER TO SHEET E2.1 FOR NEW LOCATION.
10. EXISTING UNIT HEATER TO BE REMOVED. DISCONNECT AND REMOVE ALL ASSOCIATED ELECTRICAL BACK TO SOURCE AND MAKE BREAKER A "SPARE".
11. EXISTING FIRE ALARM HORN/STROBE PENDANT MOUNTED AT STRUCTURE TO BE RELOCATED TO WALL. REFER TO SHEET E2.1 FOR NEW LOCATION.
12. EXISTING HVAC UNIT TO BE REMOVED AND REPLACED. EXISTING DISCONNECT TO REMAIN FOR RECONNECTION TO NEW UNIT. REFER TO SHEET E2.1 FOR NEW UNIT LOCATION.
13. EXISTING HVAC UNIT TO BE REMOVED, REPLACED, AND RELOCATED ACROSS THE CORRIDOR. CAP EXISTING CIRCUIT ABOVE CEILING FOR REUSE. EXISTING TOGGLE DISCONNECT TO BE RELOCATED TO NEW UNIT. REFER TO SHEET E2.1, KEYED NOTE #3 FOR ADDITIONAL INFORMATION.
14. EXISTING ELECTRIC WATER COOLER TO BE REMOVED, REPLACED, AND RELOCATED ACROSS THE CORRIDOR. CAP EXISTING CIRCUIT ABOVE CEILING FOR REUSE. REFER TO SHEET E2.1, KEYED NOTE #4 FOR ADDITIONAL INFORMATION.
15. EXISTING AIR COMPRESSOR TO BE REMOVED. DISCONNECT AND REMOVE ALL ASSOCIATED ELECTRICAL BACK TO SOURCE AND MAKE BREAKER A "SPARE".
16. EXISTING HVAC UNIT ON ROOF TO BE REMOVED. DISCONNECT AND REMOVE ALL ASSOCIATED ELECTRICAL BACK TO SOURCE AND MAKE BREAKER A "SPARE".
17. EXISTING HVAC UNIT TO BE REMOVED. DISCONNECT AND REMOVE ALL ASSOCIATED ELECTRICAL BACK TO SOURCE AND MAKE BREAKER A "SPARE".
18. EXISTING PANELBOARD TO BE REMOVED AND REPLACED. CAP ALL EXISTING BRANCH FEEDERS/CONDUITS REMAINING AFTER DEMOLITION IN PLACE FOR CONNECTION TO NEW BRANCH PANEL. REMOVE ALL LINE SIDE FEEDERS/CONDUIT FROM PANEL BACK TO SOURCE AND MAKE BREAKER A "SPARE". REFER TO SHEET E2.1 FOR NEW PANEL LOCATION AND DESIGNATION.
19. EXISTING 70A-2P ENCLOSED BREAKER TO BE REMOVED. CIRCUIT TO BE REFD FROM NEW PANEL "LP1". REFER TO SHEET E2.1 FOR PANEL LOCATION.
20. EXISTING RECEPTACLES AND DISCONNECT TO BE RELOCATED TO NEW ROOM/AREA WALLS AND RECONNECTED TO EXISTING CIRCUITS. REFER TO KEYED NOTE #12, SHEET E2.1 FOR ADDITIONAL INFORMATION.
21. EXISTING FIRE ALARM SMOKE DETECTOR TO BE RELOCATED TO NEW RESTROOM CEILING. REFER TO SHEET E2.1 FOR NEW LOCATION.
22. EXISTING ELECTRIC WATER COOLER TO BE RELOCATED TO NEW WALL. RELOCATE EXISTING STANDARD DUPLEX RECEPTACLE SERVING WATER COOLER TO NEW WALL. REPLACE EXISTING BREAKER SERVING WATER COOLER WITH GFCI TYPE AS REQUIRED.
23. EXISTING LOAD CENTER TO BE RELOCATED. CAP ALL EXISTING BRANCH FEEDERS/CONDUITS REMAINING AFTER DEMOLITION IN PLACE FOR RECONNECTION. REFER TO SHEET E2.1 FOR NEW LOCATION OF EXISTING PANEL.
24. REMOVE ALL EXISTING ELECTRICAL IN THIS AREA. LIGHTING/CONTROLS TO BE REMOVED BACK TO NEXT REMAINING FIXTURE ON CIRCUIT. POWER DEVICES TO BE REMOVED BACK TO SERVING GEAR (MAKE BREAKER A "SPARE") OR NEXT REMAINING DEVICE ON CIRCUIT. SYSTEMS DEVICES TO BE REMOVED BACK TO SOURCE.





NORTH
1
E1.1
1/8" = 1'-0"

FLOOR PLAN - LIGHTING

GENERAL ELECTRICAL NOTES:

1. REFER TO GENERAL ELECTRICAL NOTES, SHEET ES.1.
2. ALL EXIT SIGNS AND EMERGENCY FIXTURES TO BE NON-SWITCHED.

KEYED ELECTRICAL NOTES:

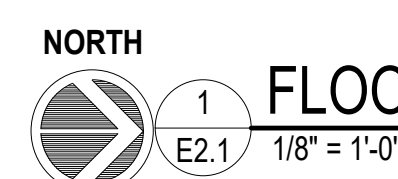
1. ROUTE (2) #10 & (1) #10 GRD. IN 3/4" CONDUIT TO PANEL INDICATED. PROVIDE AND INSTALL NEW 25A-1P BREAKER IN EXISTING SQUARE D "Q" LOAD CENTER.
2. ROUTE (2) #12 & (1) #12 GRD. IN 3/4" CONDUIT TO PANEL INDICATED. PROVIDE AND INSTALL NEW 20A-1P BREAKER IN EXISTING SQUARE D "Q" LOAD CENTER.

1. REFER TO GENERAL ELECTRICAL NOTES, SHEET E5.1.

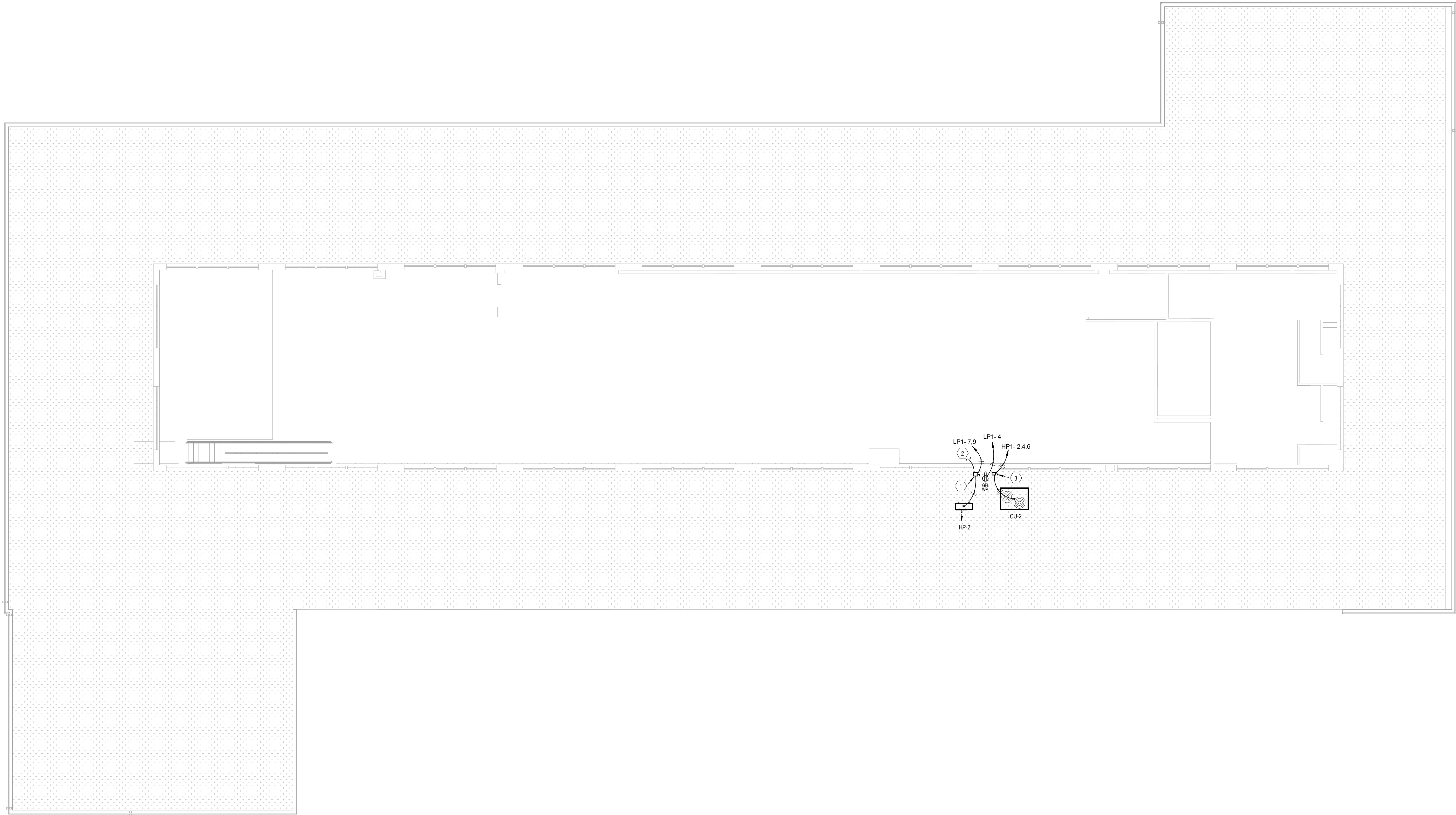
- KEYED ELECTRICAL NOTES:**

-

- | | |
|----|--|
| 26 | REPLACE EXISTING CEILING-MOUNTED SECURITY CAMERA WITH REQLINK RRLC-510A. COORDINATE AIMING DIRECTION WITH OWNER. REFER TO RISER DIAGRAM, SHEET E4.1 FOR ADDITIONAL INFORMATION. |
| 26 | REPLACE EXISTING WALL-MOUNTED SECURITY CAMERA WITH REQLINK RRLC-510A. COORDINATE AIMING DIRECTION AND FINAL MOUNTING HEIGHT WITH OWNER. REFER TO RISER DIAGRAM, SHEET E4.1 FOR ADDITIONAL INFORMATION. |
| 27 | NEW CEILING-MOUNTED SECURITY CAMERA (REQLINK RRLC-510A). COORDINATE AIMING DIRECTION WITH OWNER. REFER TO RISER DIAGRAM, SHEET E4.1 FOR ADDITIONAL INFORMATION. |
| 28 | NEW WALL-MOUNTED SECURITY CAMERA (REQLINK RRLC-510A). COORDINATE AIMING DIRECTION AND FINAL MOUNTING HEIGHT WITH OWNER. REFER TO RISER DIAGRAM, SHEET E4.1 FOR ADDITIONAL INFORMATION. |
| 29 | NEW CEILING-MOUNTED 360 DEGREE SECURITY CAMERA MOUNTED TO STRUCTURAL BEAM (REQLINK RDUO 2VZ POE). COORDINATE AIMING DIRECTION WITH OWNER. REFER TO RISER DIAGRAM, SHEET E4.1 FOR ADDITIONAL INFORMATION. |



E2.1 $1/8'' = 1'-0''$



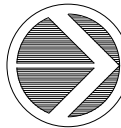
GENERAL ELECTRICAL NOTES:

1. REFER TO GENERAL ELECTRICAL NOTES, SHEET E5.1.

KEYED ELECTRICAL NOTES:

- 1. PROVIDE AND INSTALL NEMA 3R, 340V, 60A-2P NON-FUSED LOCKABLE DISCONNECT FOR MECHANICAL UNIT. PROVIDE WITH EQUIPMENT LABEL. ROUTE (2) #6 & (1) #10 GRD. IN 3/4" CONDUIT FROM UNIT TO DISCONNECT AND FROM DISCONNECT TO PANEL INDICATED. REFER TO SHEET E2.1 FOR PANEL LOCATION.
- 2. EXTEND DOWN TO ASSOCIATED INDOOR UNIT BELOW (SEE SHEET E2.1) FOR INDOOR UNIT POWER/SIGNAL.
- 3. PROVIDE AND INSTALL NEMA 3R, 600V, 30A-3P NON-FUSED LOCKABLE DISCONNECT FOR MECHANICAL UNIT. PROVIDE WITH EQUIPMENT LABEL. ROUTE (3) #10 & (1) #10 GRD. IN 3/4" CONDUIT FROM UNIT TO DISCONNECT AND FROM DISCONNECT TO PANEL INDICATED. REFER TO SHEET E2.1 FOR PANEL LOCATION.

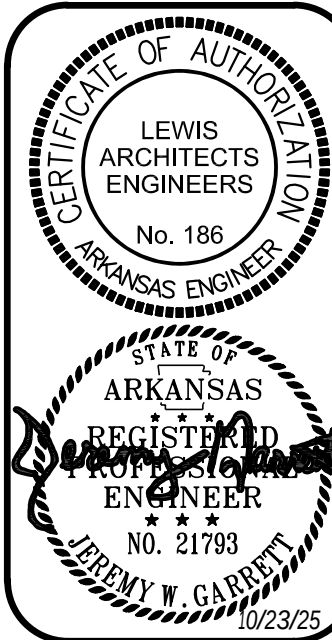
NORTH



1
E3.1 1/8" = 1'-0"

ROOF PLAN - POWER & SYSTEMS

MANUFACTURING BUILDING
INDUSTRY TECHNOLOGY
RENOVATION
SOUTHERN ARKANSAS UNIVERSITY TECH
CAMDEN, ARKANSAS



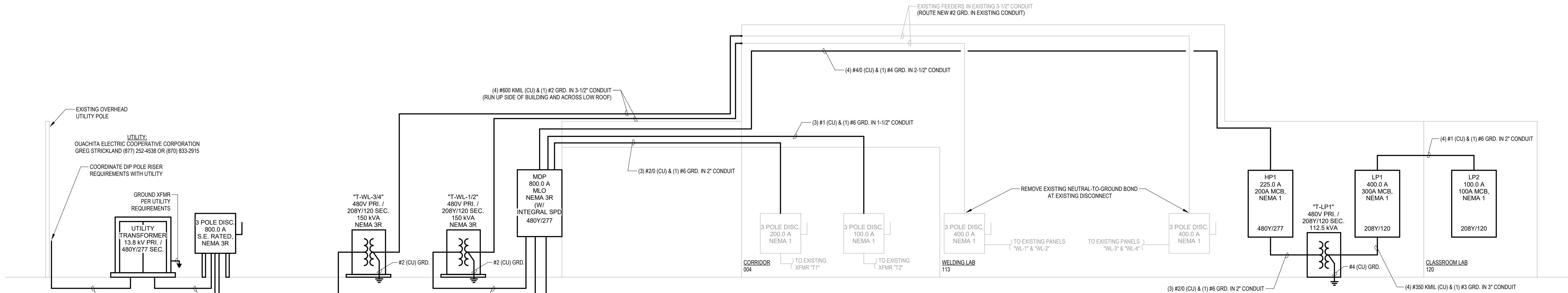
DATE: 2025-10-23
PROJECT NO: 25060
DRAWN BY: JWG
REV:

ROOF PLAN - POWER &
SYSTEMS

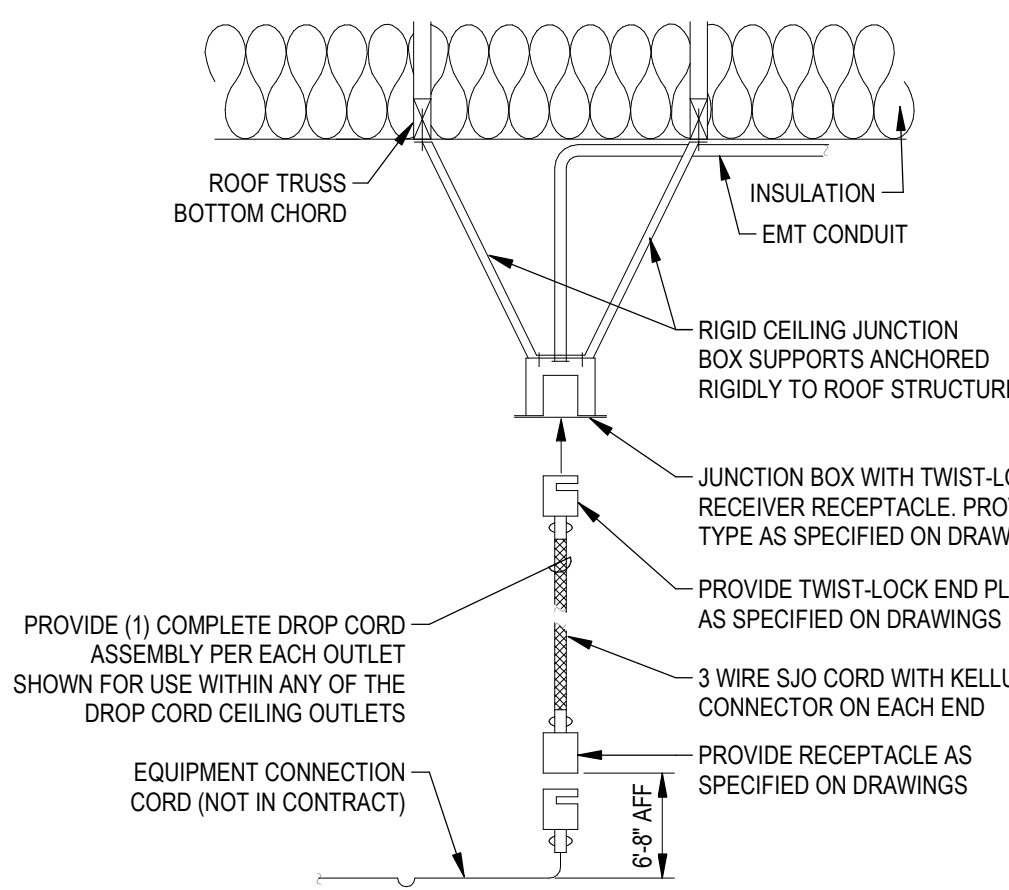
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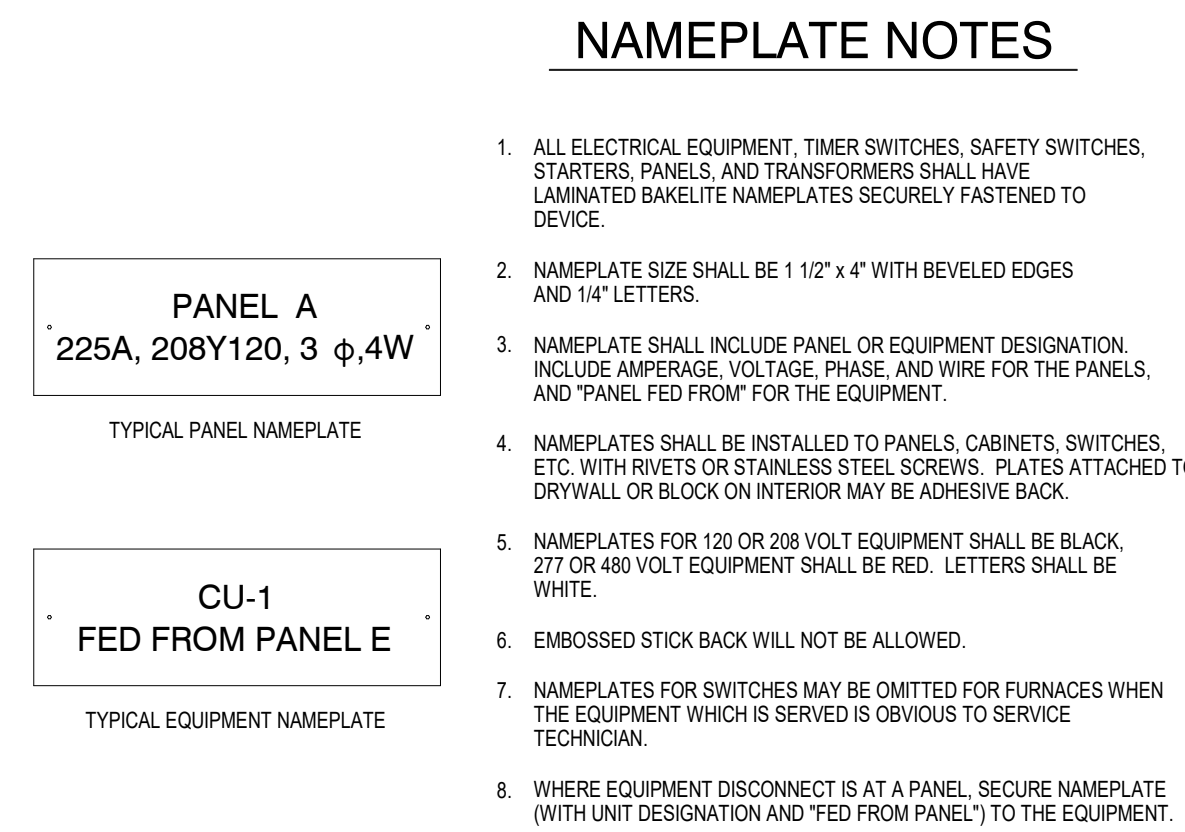
E3.1



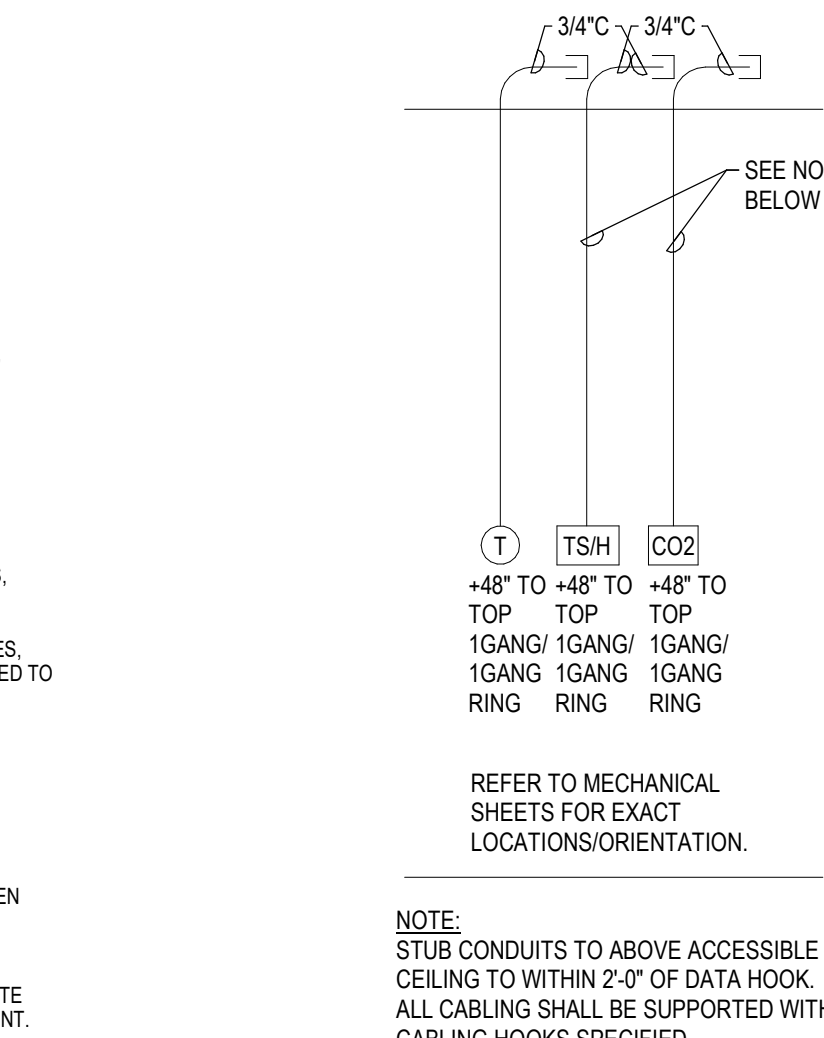
1
E4.1
RISER DIAGRAM - ELECTRICAL
NOT TO SCALE



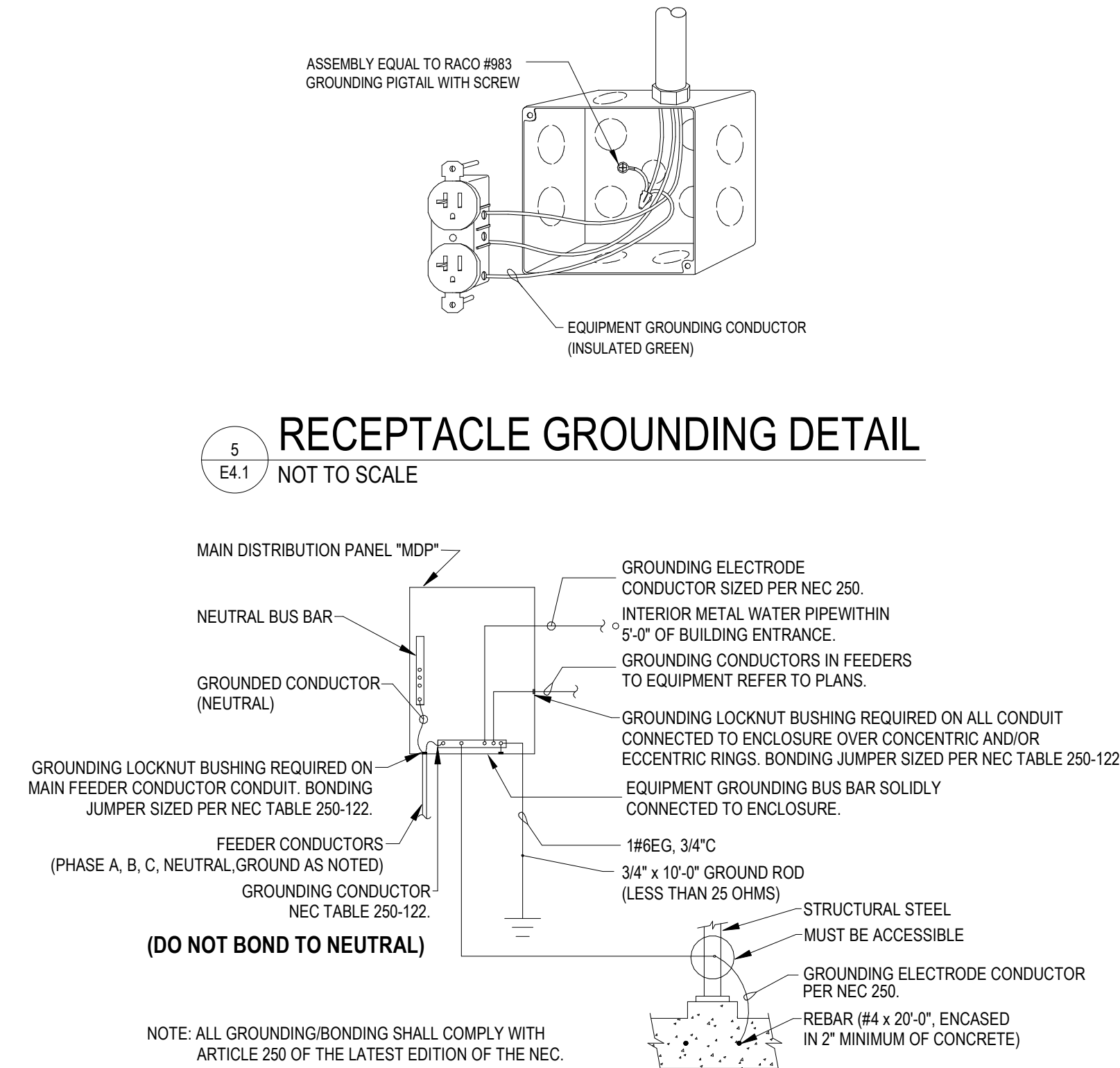
2
E4.1
DROP CORD RECEPTACLE DETAIL
NOT TO SCALE



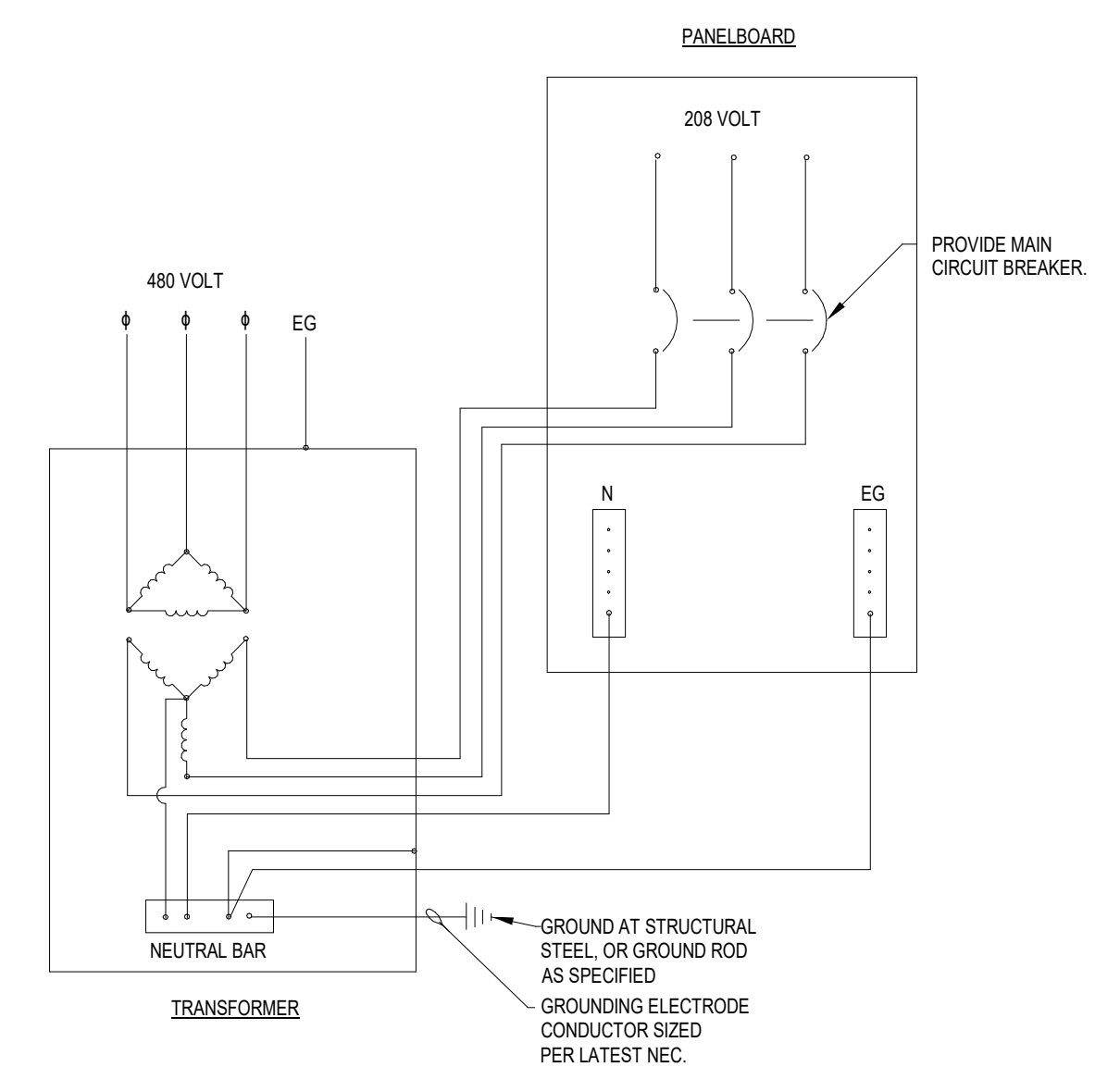
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E4.1
EQUIPMENT TAG DETAIL
NOT TO SCALE



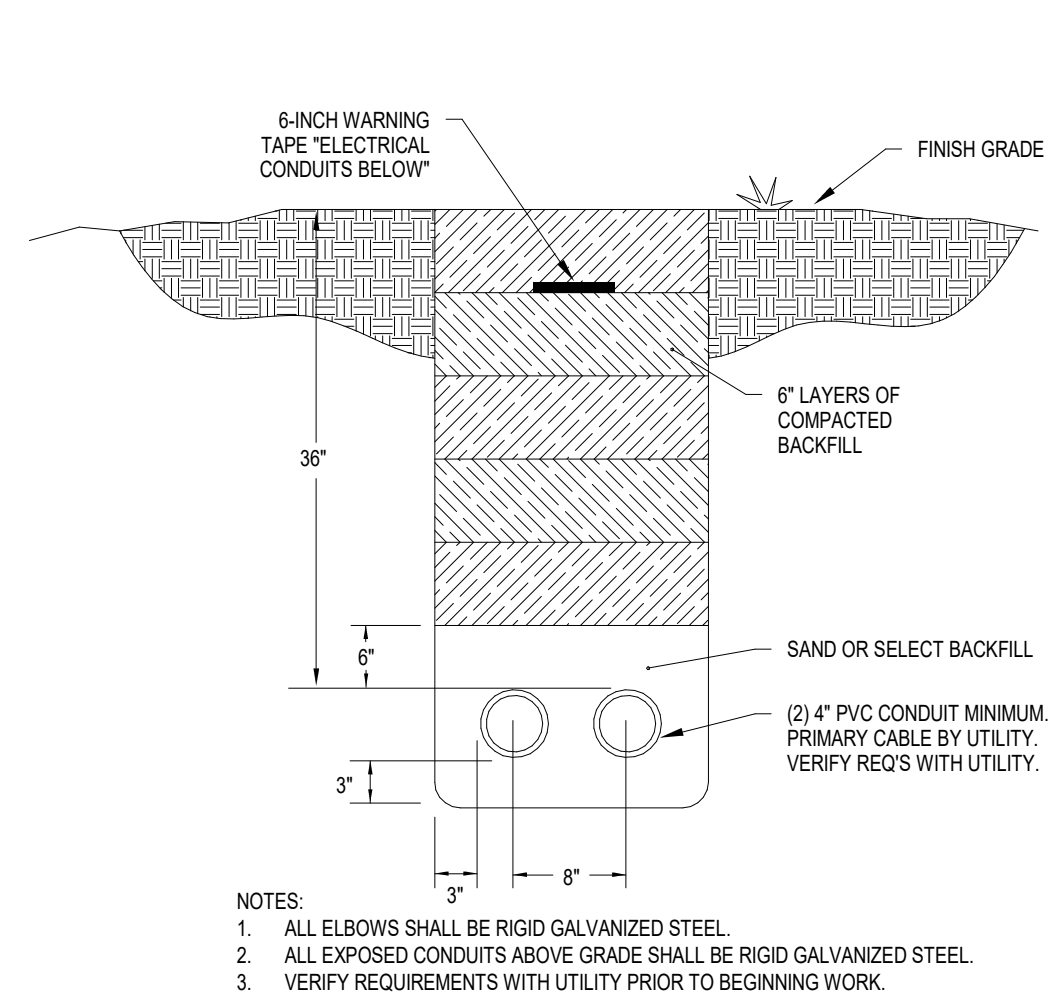
4
E4.1
HVAC SENSOR/T-STAT ROUGH-IN DETAIL
NOT TO SCALE



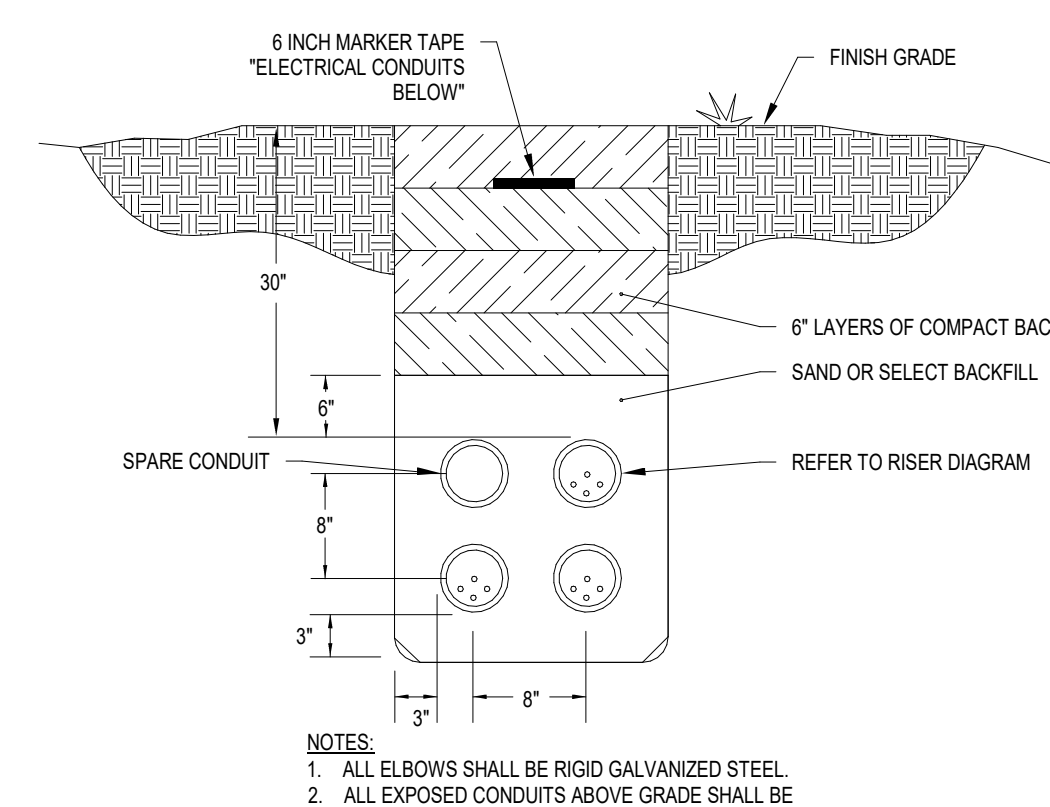
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E4.1
SUPPLEMENTAL GROUNDING DETAIL
NOT TO SCALE



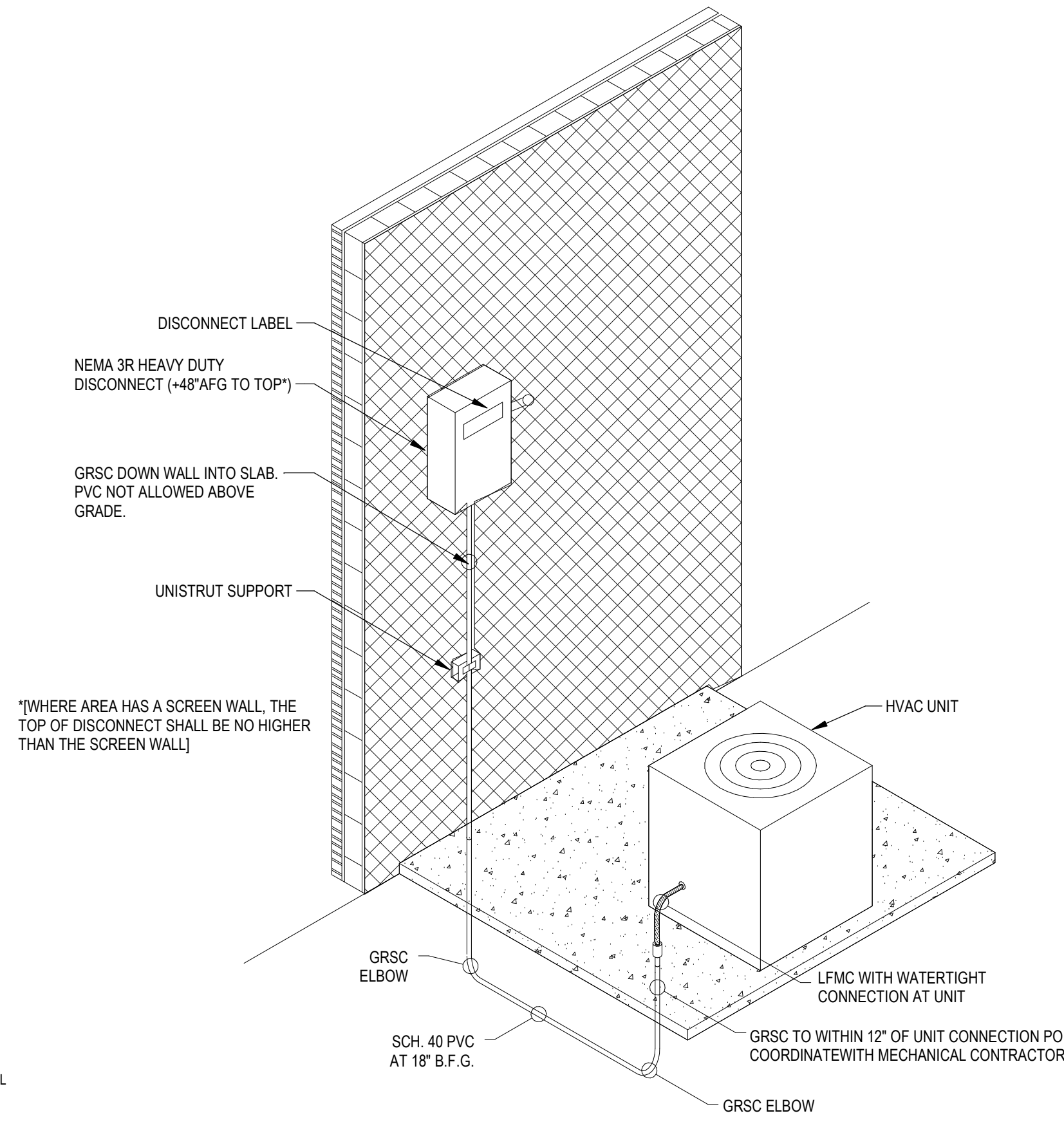
7
E4.1
TRANSFORMER GROUND DETAIL
NOT TO SCALE



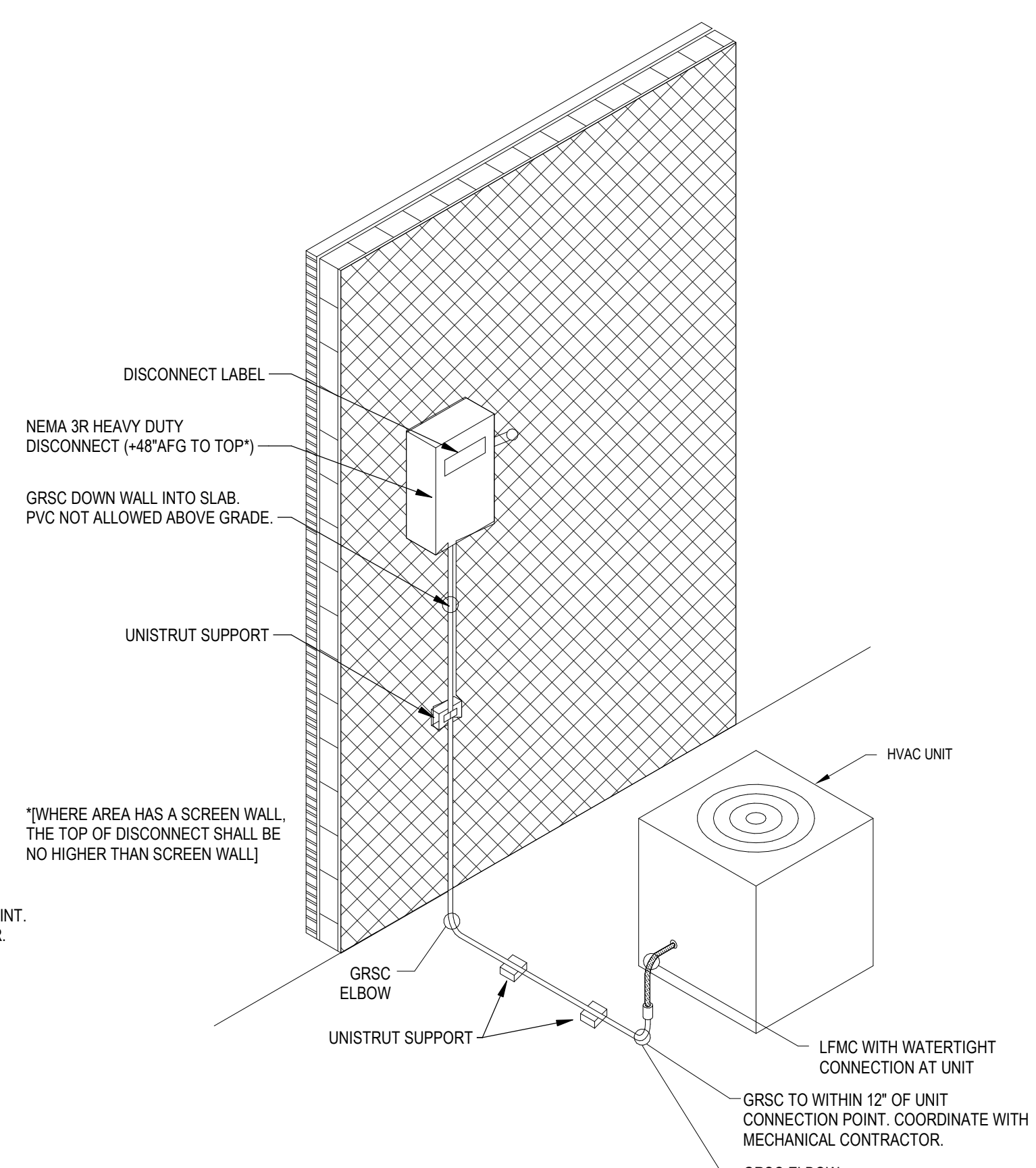
8
E4.1
PRIMARY TRENCH DETAIL
NOT TO SCALE



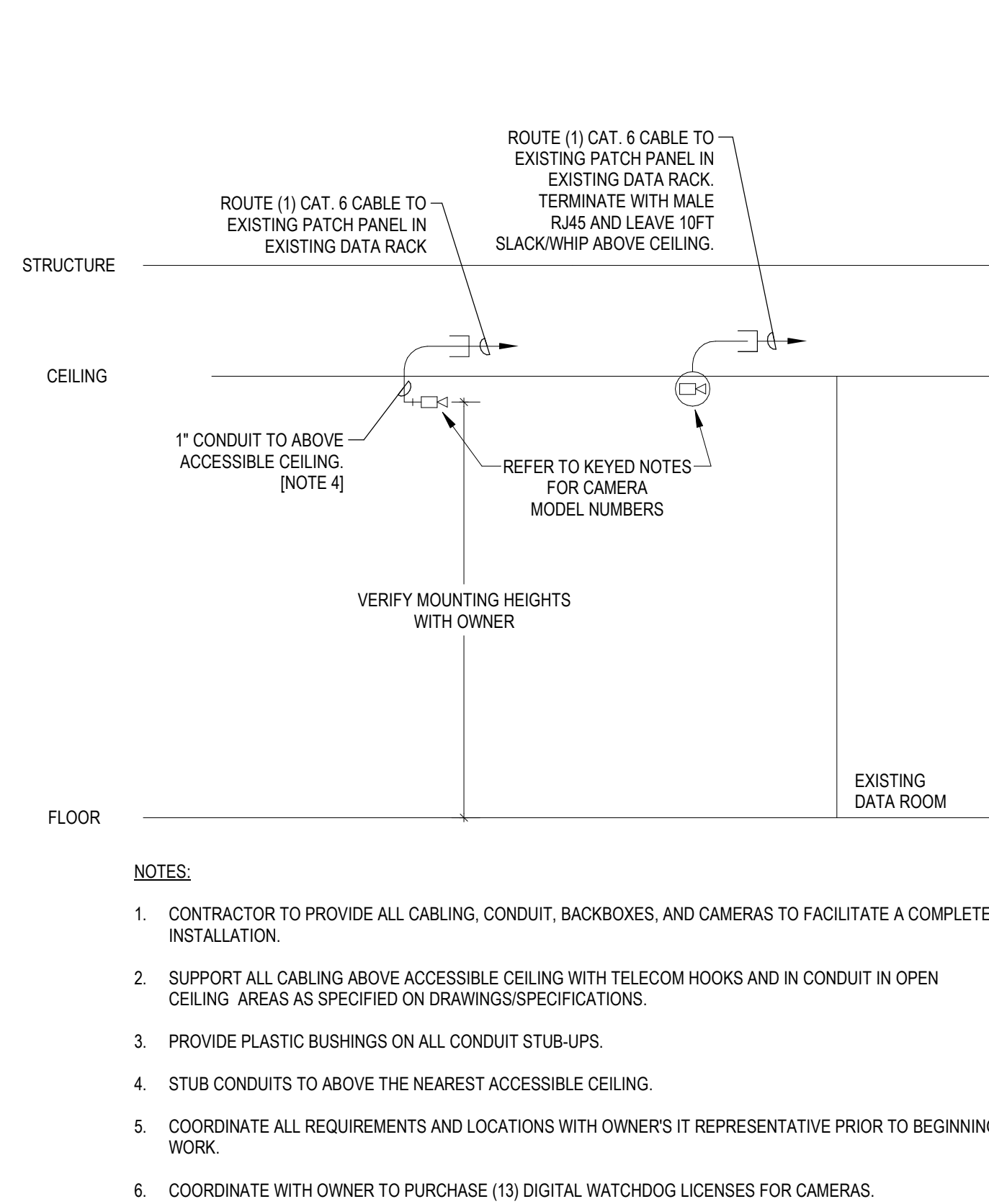
9
E4.1
POWER TRENCH DETAIL
NOT TO SCALE



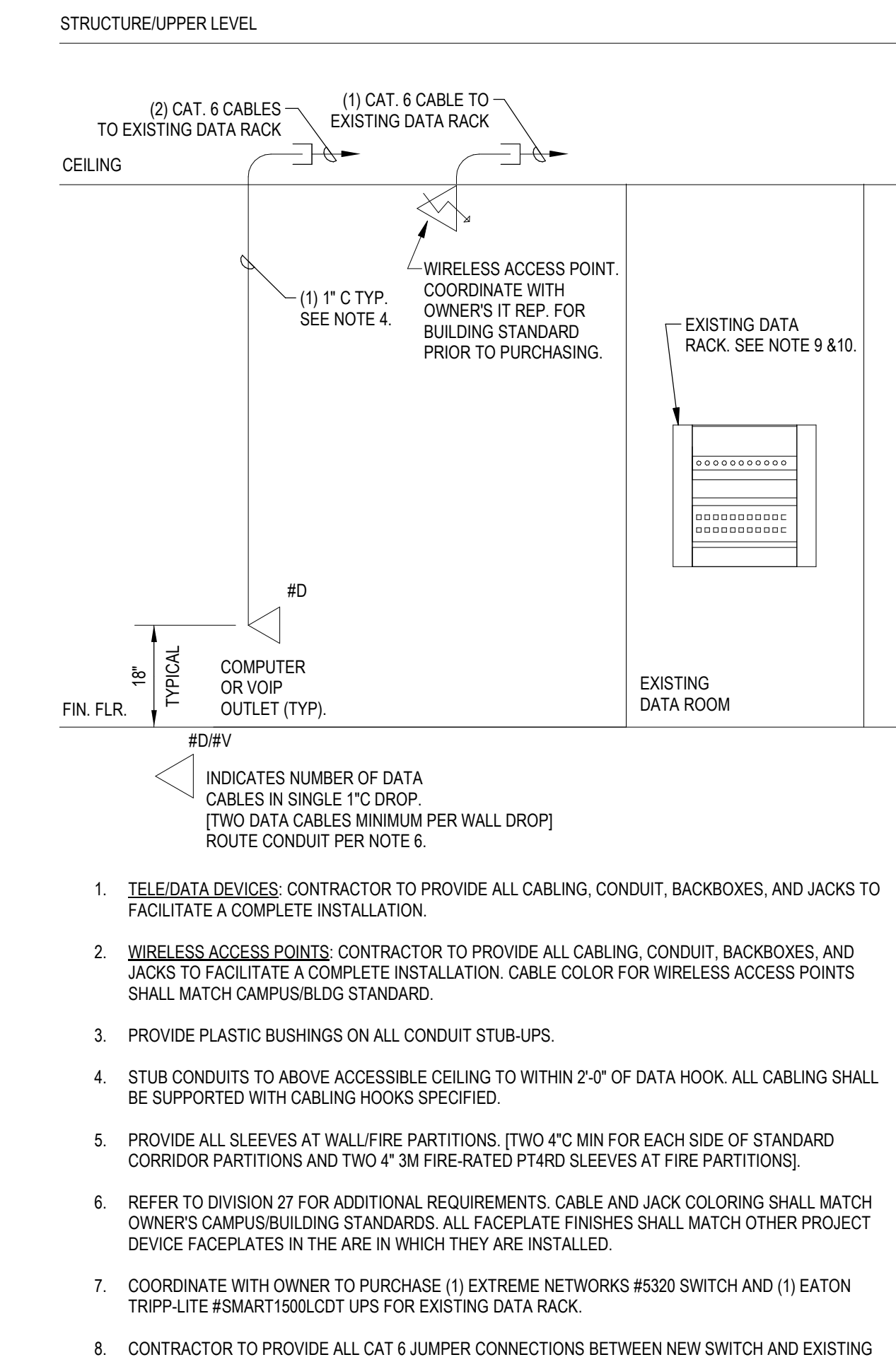
10
E4.1
EXTERIOR HVAC DISCONNECT DETAIL (ON GRADE)
NOT TO SCALE



11
E4.1
EXTERIOR HVAC DISCONNECT DETAIL (ON ROOF)
NOT TO SCALE



12
E4.1
RISER DIAGRAM - VIDEO SURVEILLANCE
NOT TO SCALE



13
E4.1
RISER DIAGRAM - TELE/DATA
NOT TO SCALE

ELECTRICAL SYMBOL LEGEND			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	LINEAR LIGHT FIXTURE - CEILING MOUNTED. REFER TO SCHEDULE.		RECEPTACLE, DUPLEX - 16" A.F.F. UNLESS NOTED OTHERWISE.
	EMERGENCY LINEAR LIGHT FIXTURE - CEILING MOUNTED. HATCH PATTERN INDICATED BY BATTERY PACK. REFER TO SCHEDULE.		INDICATES GROUND FAULT CIRCUIT INTERRUPTING TYPE
	ROUND LOW-BAY LIGHT FIXTURE - STEM MOUNTED		INDICATES WITH WEATHERPROOF "IN-USE" COVER
	LINEAR LIGHT FIXTURE - PENDANT MOUNTED. REFER TO SCHEDULE.		RECEPTACLE (DOUBLE DUPLEX) - 16" A.F.F. - U.N.O.
	VANITY LIGHT FIXTURE - WALL MOUNTED		SIMPLEX RECEPTACLE, NEMA 5-20R U.N.O.
	STRIP LINEAR LIGHT FIXTURE - CHAIN MOUNTED. REFER TO SCHEDULE.		SPECIAL PURPOSE OUTLET - WALL MOUNTED. NEMA CONFIGURATION NOTED ON PLANS.
	SITE AREA LIGHT FIXTURE - POLE MOUNTED		SPECIAL PURPOSE OUTLET - CEILING/STRUCTURE MOUNTED. NEMA CONFIGURATION NOTED ON PLANS.
	EXIT LIGHT - CHEVRONS AS NOTED (BRACKET INDICATES WALL MOUNT). REFER TO SCHEDULE.	HEIGHT: [18" IN REGARDS TO RECEPTABLES, IS TO THE CENTERLINE OF BOX]	
	SMALL WALL PACK LIGHT FIXTURE - WALL MOUNTED. REFER TO SCHEDULE.		NON-FUSED DISCONNECT SWITCH - W/ GROUNDING LUG. SIZE AS NOTED ON PLANS.
	TWO-HEAD EMERGENCY EGRESS FIXTURE - WALL MOUNTED. REFER TO SCHEDULE.		FUSED DISCONNECT SWITCH - W/ GROUNDING LUG. SIZE AS NOTED ON PLANS.
	SWITCH - SINGLE POLE, 4" O" A.F.F.		ENCLOSED CIRCUIT BREAKER
	SWITCH - THREE WAY, 4" O" A.F.F.		SINGLE-POLE TOGGLE DISC, SWITCH-MTD AS NOTED
	SWITCH - FOUR WAY, 4" O" A.F.F.		TWO-POLE TOGGLE DISC, SWITCH-MTD AS NOTED
	PHOTOCELL		JUNCTION BOX - CEILING MOUNTED
HEIGHT: [48" AFF. IN REGARDS TO ALL LIGHTING SWITCHES, IS TO THE TOP OF BOX]			JUNCTION BOX - WALL MOUNTED
			SURFACE MOUNTED PANEL BOARD
			ELECTRICAL TRANSFORMER (WITHOUT PAD)
			ELECTRICAL TRANSFORMER (WITH PAD)
			WIRE DESIGNATIONS - HOT, SWITCH, NEUTRAL, GROUND, ISOLATED GROUND, RESPECTIVELY.
			WIRE IN CONDUIT - CEILING OR WALL
			HOMERUN TO PANEL
			WIRE IN CONDUIT - UNDERFLOOR OR UNDERGROUND. SEE REG'S IN SPECIFICATIONS.

GENERAL ELECTRICAL NOTES:

- DUE TO THE SMALL SCALE OF THE PLANS AND THE DIAGRAMMATIC NATURE OF ELECTRICAL PLANS IN GENERAL IT IS NOT POSSIBLE TO INDICATE ALL OFFSETS, FITTINGS, JUNCTION BOXES, ETC. WHICH MAY BE REQUIRED. THE CONTRACTOR SHALL INVESTIGATE THE STRUCTURAL AND FINISH CONDITIONS AFFECTING HIS WORK AND SHALL COORDINATE AND ARRANGE HIS WORK ACCORDINGLY.
- PROVIDE LAMINATED NAMEPLATES ON ALL ELECTRICAL GEAR PER THE SPECIFICATIONS. SCREW OR POP RIVET TO COVERS. ALL SAFETY SWITCHES SHALL BE HEAVY DUTY, NON-FUSED, 240V OR 600V, SOLID NEUTRAL, NEMA 3R AS APPLIES UNLESS NOTED OTHERWISE.
- MINIMUM CONDUIT SIZE SHALL BE 3/4" UNLESS NOTED OTHERWISE. SLEEVE ALL RACEWAYS ROUTED THRU FOOTINGS OR GRADE BEAMS. CONTRACTOR SHALL FRESTOP PER SPECIFICATIONS ALL CONDUIT PENETRATIONS THRU RATED WALLS. VERIFY FIRE RATED WALL LOCATIONS WITH ARCHITECTURAL PLANS. CONTRACTOR SHALL COORDINATE WITH PLUMBING CONTRACTOR AND AVOID ANY WATER CARRYING PIPE INSTALLATION ABOVE ELECTRICAL GEAR AND/OR APPARATUS. SET SCREW AND INDENTER TYPE CONDUIT FITTINGS ARE NOT ALLOWED. ALL INTERIOR EXPOSED RACEWAY SHALL BE PAINTED AS DIRECTED BY ARCHITECT.
- ALL CONDUIT, JUNCTION AND OUTLET BOXES, AND RELATED ROUGH-IN MATERIAL ARE TO BE CONCEALED UNDER FLOORS, IN WALLS AND ABOVE FINISHED CEILINGS WHERE POSSIBLE UNLESS NOTED OTHERWISE IN THE SPECIFICATIONS OR ON THE DRAWINGS. ALL CONDUIT SHALL BE ROUTED OVERHEAD UNLESS NOTED OTHERWISE OR SHOWN AS BELOW GRADE TO A DEVICE.
- ALL CONDUCTORS SHALL BE COPPER WITH A MINIMUM SIZE CONDUCTOR OF #12 A.W.G. PROVIDE SOLID TYPE THW OR THHN FOR #12 A.W.G. AND #10 A.W.G. ALL FEEDER AND MOTOREQUIPMENT CONDUCTORS SHALL BE COPPER TYPE THHN OR THWN.
- ALL EQUIPMENT SHALL BE BRACED FOR EARTHQUAKE. LIGHT FIXTURES TO HAVE EARTHQUAKE CLIPS AND INDEPENDENT SUPPORT WIRES AT OPPOSITE CORNERS. ALL CEILING MOUNTED EQUIPMENT SUCH AS LIGHT FIXTURES SHALL BE SECURED TO THE STRUCTURE WITH #12 GA STEEL WIRE ON TWO(2) SIDES. IN ADDITION, LIGHT FIXTURES SHALL BE SECURED TO THE CEILING WITH FACTORY UL LISTED EARTHQUAKE CLIPS.
- AT LOCATIONS WHERE TRENCHES ARE BELOW BOTTOM OF FOOTING ELEVATION AND WITHIN SIX FEET OF THE EDGE OF THE FOOTING, TRENCHES SHALL BE BACKFILLED IN LIFTS, COMPACTED AND TESTED. REFER TO STRUCTURAL DRAWINGS FOR FOUNDATION NOTES FOR BACKFILL PROCEDURES. PROVIDE PULLSTRINGS FOR ALL CONDUIT STUBS/EDGES
- PROVIDE A MIN. OF (2) 4" KC ON BOTH SIDES OF CORRIDOR PARTITIONS. PROVIDE (2) 3M PTFARD FIRE-RATED SEALS AT FIRE-RATED PARTITIONS. PROVIDE SPEC SEAL FIRESTOP PILLOWS IN ALL OTHER SLEEVES AND PENETRATIONS AT FIRE-RATED WALLS.
- ALL CIRCUITS, LIGHTING AND POWER, SHALL HAVE DEDICATED NEUTRAL CONDUCTORS WITH ONE PER EACH HOT CONDUCTOR-(NO SHARING OF NEUTRAL(S), ONLY 3 "HOT" CIRCUITS ALLOWED PER HOMERUN - U.N.O.
- ALL OF THE FOLLOWING RECEPTABLES SHALL BE GFCI TYPE:
a) RECEPTABLES FOR ELECTRIC WATER COOLERS
b) RECEPTABLES IN BATHROOMS OR WITHIN 6'-0" OF A SINK
c) NEMA 5-20R RECEPTABLES FOR A KITCHEN OR CONCESSION AREA.
d) EXTERIOR RECEPTABLES SHALL BE GFCI AND WEATHER RESISTANT "WR" TYPE.
Note: FEED THROUGH PROTECTION OF GFCI OUTLETS ARE NOT ALLOWED.
- MOUNT EXTERIOR DISCONNECTS FOR HVAC/MECHANICAL EQUIPMENT AT +48" F.G. TO TOP OF DISCONNECT OR, WHERE APPLICABLE, TOP OF DISCONNECT AT TOP OF ADJACENT SURROUNDING SCREEN WALL; WHICHEVER IS LOWER COORDINATE LOCATIONS OF ALL DISCONNECTS WITH FINAL EQUIPMENT LOCATIONS PRIOR TO BEGINNING WORK AS NOT TO IMPEDE ANY EQUIPMENT ACCESS OR VIOLATE ANY NEC CLEARANCES REQUIREMENTS.
- THE FINAL TYPEDWRITTEN ELECTRICAL PANEL SCHEDULES SHALL REFLECT THE ACTUAL ROOM DESCRIPTIONS AND NUMBERS DEPICTED ON FINAL INSTALLED ROOM SIGNAGE. (FIELD VERIFY FOR ACCURACY).
- LIGHT FIXTURES SUBMITTED/PROVIDED SHALL MEET THE REQUIREMENTS OF THE DESIGNLIGHTS CONSORTIUM AND/OR BE ENERGYSTAR CERTIFIED.
- ALL CONDUITS ENTERING THE BUILDING FROM BELOW GRADE SHALL BE SEALED OFF FROM WATER INFILTRATION WITH CONDUIT SEALANT SYSTEM EQUAL TO POLY-WATER FST SYSTEM. ALL EMPTY STUBBED UP CONDUITS SHALL ALSO BE PROVIDED WITH THREADED CAP FOR COVER.

LIGHTING FIXTURE SCHEDULE						DESCRIPTION
TYPE	MANUFACTURER	MODEL	VOLTAGE	LAMP	WATTAGE	
A1	CORELITE	RX-WO-45L840-UNV-24-T1-STD	UNV	LED (4000K)	36 W	2'x4' ARCHITECTURAL TROFFER FIXTURE, SMOOTH OPAL LENS, LAY-IN CEILING MOUNTED. 4340 LUMENS, 80+ CRI, ELECTRONIC DIMMING DRIVER.
A2	CORELITE	RX-WO-20L840-UNV-22-T1-STD	UNV	LED (4000K)	16 W	2'x2' ARCHITECTURAL TROFFER FIXTURE, SMOOTH OPAL LENS, LAY-IN CEILING MOUNTED. 1990 LUMENS, 80+ CRI, ELECTRONIC DIMMING DRIVER.
A2E	CORELITE	RX-WO-20L840-UNV-22-T1-STD-EL7W	UNV	LED (4000K)	16 W	2'x2' ARCHITECTURAL TROFFER FIXTURE, SMOOTH OPAL LENS, LAY-IN CEILING MOUNTED. 1990 LUMENS, 80+ CRI, ELECTRONIC DIMMING DRIVER WITH EMERGENCY BATTERY PACK.
B1	NEO-RAY	S125DP-C850D840-C4JBXX24F08-1-UDD-F-XX	UNV	LED (4000K)	161 W	24"-0" DIRECT PENDANT FIXTURE, SATIN FLUSH DIFFUSER, AIRCRAFT CABLE MOUNTED TO STRUCTURE. 850 LUMENS PER FT. 80+ CRI, ELECTRONIC DIMMING DRIVER. MOUNTING HARDWARE AND FINISH COLORS TO BE SELECTED BY ARCHITECT. MOUNT APPROX. 10'-0" AFF.
B2	NEO-RAY	S125DP-C850D840-C4JBXX19F08-1-UDD-F-XX	UNV	LED (4000K)	128 W	19"-0" DIRECT PENDANT FIXTURE, SATIN FLUSH DIFFUSER, AIRCRAFT CABLE MOUNTED TO STRUCTURE. 850 LUMENS PER FT. 80+ CRI, ELECTRONIC DIMMING DRIVER. MOUNTING HARDWARE AND FINISH COLORS TO BE SELECTED BY ARCHITECT. MOUNT APPROX. 10'-0" AFF.
B3	NEO-RAY	S125DP-C850D840-C4JBXX15F08-1-UDD-F-XX	UNV	LED (4000K)	101 W	15"-0" DIRECT PENDANT FIXTURE, SATIN FLUSH DIFFUSER, AIRCRAFT CABLE MOUNTED TO STRUCTURE. 850 LUMENS PER FT. 80+ CRI, ELECTRONIC DIMMING DRIVER. MOUNTING HARDWARE AND FINISH COLORS TO BE SELECTED BY ARCHITECT. MOUNT APPROX. 10'-0" AFF.
B4	NEO-RAY	S125DP-C850D840-C4JBXX13F08-1-UDD-F-XX	UNV	LED (4000K)	88 W	13"-0" DIRECT PENDANT FIXTURE, SATIN FLUSH DIFFUSER, AIRCRAFT CABLE MOUNTED TO STRUCTURE. 850 LUMENS PER FT. 80+ CRI, ELECTRONIC DIMMING DRIVER. MOUNTING HARDWARE AND FINISH COLORS TO BE SELECTED BY ARCHITECT. MOUNT APPROX. 10'-0" AFF.
B5	NEO-RAY	S125DP-C850D840-C4JBXX09F08-1-UDD-F-XX	UNV	LED (4000K)	61 W	9"-0" DIRECT PENDANT FIXTURE, SATIN FLUSH DIFFUSER, AIRCRAFT CABLE MOUNTED TO STRUCTURE. 850 LUMENS PER FT. 80+ CRI, ELECTRONIC DIMMING DRIVER. MOUNTING HARDWARE AND FINISH COLORS TO BE SELECTED BY ARCHITECT. MOUNT APPROX. 10'-0" AFF.
C	FAIL-SAFE	8VRV11-SL3C3 / AYC-CHAIN HANGER SET	UNV	LED (4000K)	59 W	8" VAPORITRE LINEAR FIXTURE, HIGH-IMPACT LENS, CHAIN MOUNTED TO STRUCTURE. 8590 LUMENS, 80+ CRI, ELECTRONIC DIMMING DRIVER. MOUNT APPROX. 10'-0" ABOVE DOCK LEVEL.
CE	FAIL-SAFE	8VRV11-SL3C3-EL10W / AYC-CHAIN HANGER SET	UNV	LED (4000K)	59 W	8" VAPORITRE LINEAR FIXTURE, HIGH-IMPACT LENS, CHAIN MOUNTED TO STRUCTURE. 8590 LUMENS, 80+ CRI, ELECTRONIC DIMMING DRIVER WITH EMERGENCY BATTERY PACK. MOUNT APPROX. 10'-0" ABOVE DOCK LEVEL.
DE	McGRAW-EDISON	GKO-PB1C-740-U-T3-XX-CBP	UNV	LED (4000K)	17 W	ARCHITECTURAL WALL PACK FIXTURE, TYPE 3 DISTRIBUTION, WALL MOUNTED. 2560 LUMENS, 70+ CRI, ELECTRONIC DRIVER WITH COLD-WEATHER EMERGENCY BATTERY PACK. FINISH TO BE SELECTED BY ARCHITECT. MOUNT APPROX. 9'-0" ABOVE ENTRANCE LEVEL.
EE	SURE-LITES	SEL555F	UNV	LED (5000K)	5 W	TWO-HEAD EMERGENCY EGRESS FIXTURE, WHITE HOUSING, WALL MOUNTED. MOUNT APPROX. 8'-0" AFF.
F	METALUX	2SMLED-LD5-34HL-LC-UNV-L840-CD1-U	UNV	LED (4000K)	27 W	2' LENSED UTILITY STRIP FIXTURE, ROUND CLEAR LENS, WALL MOUNTED. 3480 LUMENS, 80+ CRI, ELECTRONIC DIMMING DRIVER. MOUNT APPROX. 8'-0" AFF.
X1	SURE-LITES	LPX7RSF	UNV	LED	2 W	1-SIDED UNIVERSAL MOUNT EXIT SIGN, RIGHT ARROW ONLY, WHITE THERMOPLASTIC HOUSING, RED LETTERS, WALL MOUNTED. MOUNT APPROX. 8'-0" AFF.
X2	SURE-LITES	LPX7RSF	UNV	LED	2 W	1-SIDED UNIVERSAL MOUNT EXIT SIGN, NO ARROWS, WHITE THERMOPLASTIC HOUSING, RED LETTERS, WALL MOUNTED. MOUNT APPROX. 8'-0" AFF.
X3	SURE-LITES	LPX7RSF	UNV	LED	2 W	1-SIDED UNIVERSAL, MOUNT EXIT SIGN, NO ARROWS, WHITE THERMOPLASTIC HOUSING, RED LETTERS, LAY-IN CEILING MOUNTED.

LIGHTING FIXTURE SCHEDULE NOTES:

- FIXTURES SHOWN ARE BASIS-OF-DESIGN. SUBMIT FIXTURES SHOWN OR EQUAL FIXTURES FOR APPROVAL. LED FIXTURES SHALL BE MINIMUM 50,000 HOURS LUMEN MAINTENANCE AT L70.
- PROVIDE 2% REPLACEMENT DRIVERS FOR EACH FIXTURE TYPE, WITH MINIMUM ONE REPLACEMENT. VERIFY LOCATION TO STORE FOR BACKSTOCK WITH OWNER. REFER TO DIVISION 26 SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- VERIFY FINISH TYPES AND LENS TYPES WITH ARCHITECT PRIOR TO ORDERING.
- PROVIDE HARD CEILING KITS IN AREAS WHERE THERE IS GYP, METAL, OR SPECIALTY CEILING TYPES. VERIFY CEILING TYPES WITH ARCHITECTURAL REFLECTED CEILING PLAN.
- PROVIDE AND INSTALL LAMPS IN EACH LUMINAIRE BEFORE OWNER OCCUPANCY, EXCEPT WHERE INDICATED OTHERWISE.
- PROVIDE EARTHQUAKE CLIPS FOR LIGHTING FIXTURES. TIE WITH THE WIRE TO STRUCTURE THE FIXTURES WITHOUT INSTALLED EARTHQUAKE CLIPS.
- JUNCTION BOXES INSTALLED FOR CONNECTION TO FIXTURES RECESSED IN HARD CEILINGS SHALL BE ACCESSIBLE FROM THE CEILING FIXTURE PENETRATION. OTHERWISE, INSTALL JUNCTION BOXES ABOVE ACCESSIBLE CEILING SPACES FOR CONNECTION TO FIXTURES.
- AIM AND CONFIGURE ADJUSTABLE LUMINAIRES IN PRESENCE OF OWNER.
- FIXTURE VOLTAGES SPECIFIED AS "UNV" ARE RATED FOR 120V AND 277V.
- ALL EMERGENCY BATTERY PACKS AND TEST SWITCHES ARE TO BE INTEGRAL TO FIXTURE. IF AN INTEGRAL BATTERY PACK AND TEST SWITCH ARE NOT AN OPTION, EMERGENCY BATTERY PACK OR TEST SWITCH ARE TO BE INSTALLED REMOTELY IN SAME ELECTRICAL ROOM AS CIRCUIT INDICATED TO FIXTURE.

LIGHTING CONTROLS SCHEDULE				NOTES
TYPE	MANUFACTURER	MODEL		
PC	TORX	2000		PHOTOCONTROL, CONDUIT STEM MOUNTED, LINE VOLTAGE, MOUNT ON ROOF FACING NORTH
DP	GREENGATE	SP20-MV		LINE VOLTAGE TO LOW VOLTAGE POWER PACK, LINE VOLTAGE, MOUNT ABOVE ACCESSIBLE CEILING
OP	GREENGATE	OAC-DT-1000-R		DUAL-TECHNOLOGY CEILING OCCUPANCY SENSOR, 360 DEGREE 1000 SQ FT. COVERAGE, LOW VOLTAGE, COLOR OFF-WHITE
Sov	GREENGATE	GMDS-W / PJS26W		SINGLE POLE MOMENTARY SWITCH FOR CEILING OCC. SENSOR ON/OFF OVERRIDE, LINE VOLTAGE, COLOR WHITE
SovS	GREENGATE	OSW-D-010-W		0-10V DUAL-TECHNOLOGY WALL SWITCH OCCUPANCY SENSOR DIMMER, 180 DEGREE 900 SQ. FT. COVERAGE, LINE VOLTAGE, COLOR WHITE.

LIGHTING CONTROL SCHEDULE NOTES:

- CONTROLS SHOWN ARE BASIS-OF-DESIGN. SUBMIT CONTROLS AS SHOWN OR EQUAL CONTROLS FOR APPROVAL. WHERE ALTERNATE APPROVED CONTROLS ARE SUBMITTED, FURNISH ANY ADDITIONAL LIGHTING CONTROL DEVICES, WIRING, AND INSTALLATION NECESSARY FOR A COMPLETE, FUNCTIONAL SYSTEM IN ADHERENCE WITH DESIGN INTENT.
- VERIFY WIRING METHODS WITH MANUFACTURER'S INSTRUCTIONS.
- VERIFY FINISH TYPES WITH ARCHITECT PRIOR TO ORDERING.
- LOCATE DEVICES MOUNTED ABOVE CEILING (SUCH AS POWER PACKS) ABOVE AN ACCESSIBLE CEILING SPACE.
- INSTALL CEILING MOUNTED OCCUPANCY SENSORS A MINIMUM OF 3'-0" FROM ANY HVAC SUPPLY/RETURN VENTS.
- CALIBRATE, PROGRAM, AND VERIFY LIGHTING CONTROLS ARE FUNCTIONAL BEFORE OWNER OCCUPANCY.
- CONTROLS VOLTAGES SPECIFIED AS "UNV" ARE RATED FOR 120V AND 277V.
- AUXILIARY RELAYS, WHERE SPECIFIED, ARE FOR CONNECTION TO THE HVAC SYSTEM, BY HVAC CONTROLS CONTRACTOR, UNLESS NOTED OTHERWISE.

Dist. Panelboard: MDP

Location: EXTERIOR		Volts: 480Y/277		A.I.C. Rating: 35,000	
Supply From: UTILITY		Phases: 3		Bus Rating: 800.0 A	
Mounting: SURFACE		Wires: 4		MCB Rating: M.L.O.	
Enclosure: NEMA 3R					
Notes:					
CKT	Circuit Description	# of Poles	Trip Rating	Load	Remarks
1	TRANSFORMER "T1"	3	200.0 A	90000 VA	
2	TRANSFORMER "T2"	3	100.0 A	60000 VA	
3	PANEL "HP1"	3	225.0 A	153298 VA	
4	TRANSFORMER "T-WL-1/2"	3	250.0 A	120000 VA	
5	TRANSFORMER "T-WL-3/4"	3	250.0 A	120000 VA	
6	SURGE PROTECTION DEVICE (SPD)	3	30.0 A	0 VA	
7	100A-3P SPARE	3	100.0 A	0 VA	
8					
9					
10					
				541110 VA	
				650.9 A	
Legend:					
Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Other	390000 VA	100.00%	390000 VA		
Spare	49100 VA	100.00%	49100 VA	Total Conn. Load: 541110 VA	
MOTORS/EQUIPMENT	88991 VA	100.00%	88991 VA	Total Est. Demand: 538708 VA	
LIGHTING	1141 VA	125.00%	1426 VA	Total Conn.: 650.9 A	
RECEPTACLES	15760 VA	81.73%	12880 VA	Total Est. Demand: 648.0 A	
Notes:					

PANELBOARD: HP1

LOAD DESCRIPTION											BKR	P	CKT	A	B	C	CKT	P	BKR	LOAD DESCRIPTION
T-LP1	125	A	3	1	35.0	4.7		2			4	3	30	A					CU-2 (ROOF)	
				5							35.1	4.7	6							
				7	3.8	4.4					8									
CU-1	25	A	3	9			3.8	4.4					10	3	20	A			ROBOTIC WELDER #1	
				11					3.8	4.4	12									
ROBOTIC WELDER #2	20	A	3	15	13	4.4	0.0					14	1	20	A			SPARE		
				17					4.4	0.0		16	1	20	A			SPARE		
				19	--	--						18	1	20	A			SPARE		
SPACE	--	1	21				--	--				22	1	--	SPACE					
SPACE	--	1	23				--	--	--	--		24	1	--	SPACE					
SPACE	--	1	25			--	--	--				26	1	--	SPACE					
SPACE	--	1	27			--	--	--				28	1	--	SPACE					
SPACE	--	1	29				--	--				30	1	--	SPACE					
TOTAL LOAD:				52 kVA	50 kVA	52 kVA														
TOTAL AMPS:				188 A	178.8 A	189 A														
CONNECTED				DEMAND	ESTIMATED					PANEL TOTALS										
MOTORS/EQUIPMENT				88991 VA	100.00%	88991 VA														
LIGHTING				1141 VA	125.00%	1426 VA					CONNECTED LOAD:				153298 VA					
RECEPTABLES				15760 VA	81.73%	12880 VA					ESTIMATED DEMAND:				150782 VA					
												CONNECTED CURRENT:				184.4 A				
												EST. DEMAND CURRENT:				181.4 A				
NOTES:																				

LOAD DESCRIPTION											BKR	P	CKT	A	B	C	CKT	P	BKR	LOAD DESCRIPTION
PANEL "LP2"	100	A	3	3	1	9.1	0.4					2	1	20	A			REC - DOCK		
				5				8.9	0.2			4	1	20	A			REC - ROOF		
				7	2.7	4.2				9.0	0.5	6	1	20	A			MOTORIZED O.H. DOOR		
HP-2 / CC-2	35	A	2	9								8								
				11				2.7	4.2			10	3	50	A			CNC LATHING MACHINE		
CNC MILLING MACHINE	35	A	3	13	13	3.0	0.4					3.0	4.2	12						
				15				3.0	0.4			14	1	20	A			ROBOTIC WELDER #2		
EXISTING CCT	20	A	1	15						1.0	1.0	16	1	20	A			ROBOTIC WELDER #1		
EXISTING CCT	20	A	1	17			1.0	1.0				17	1	20	A			EXISTING CCT		
EXISTING CCT	20	A	1	21			1.0	1.0				22	1	20	A			EXISTING CCT		
				23						1.6	2.5	24								
EXISTING CCT	20	A	3	25	1.6	2.5						26				3	30	A	EXISTING CCT	
				27			1.6	2.5				28								
				29					1.6	1.6	30									
EXISTING CCT	20	A	3	31	1.6	1.6			1.6	1.6		32			3	20	A	EXISTING CCT		
				33				1.6	1.6			34								
EXISTING CCT	70	A	2	35						5.2	1.6	36								
				37	5.2	1.6						38	3	20	A			EXISTING CCT		
EXISTING CCT	40	A	2	39			3.0	1.6				40								
				41						3.0	0.0	42	1	20	A			SPARE		
SPARE	20	A	1	43	0.0	0.0						44	1	20	A			SPARE		
SPARE	20	A	1	45			0.0	0.0				46	1	20	A			SPARE		
SPARE	20	A	1	47					0.0	0.0		48	1	20	A			SPARE		
SPACE	--	1	49		--	--					50	1	--	SPACE						
SPACE	--	1	51		--	--					52	1	--	SPACE						
SPACE	--	1	53				--	--			54	1	--	SPACE						
TOTAL LOAD:				35 kVA	33 kVA	35 kVA														
TOTAL AMPS:				265 A	272.3 A	266 A														
CONNECTED				DEMAND	ESTIMATED					PANEL TOTALS										
MOTORS/EQUIPMENT				38478 VA	100.00%	38478 VA														
LIGHTING				1141 VA	125.00%	1426 VA					CONNECTED LOAD:				102772 VA					
RECEPTABLES				15760 VA	81.73%	12880 VA					ESTIMATED DEMAND:				100267 VA					
												CONNECTED CURRENT:				285.3 A				
												EST. DEMAND CURRENT:				278.3 A				
NOTES:																				

PANELBOARD: LP1

LOCATION: CAREER ACADEMY...				VOLTAGE: 208Y/120 V, 3 ø 4 W.								
MOUNTING: SURFACE NEMA 1				A.I.C. RATING: 10,000 AMPS SYMMETRICAL								
MAIN DEVICE: 300.0 A MAIN CB				SPECIAL:								
BUS AMPS: 400 AMPS												
LOAD DESCRIPTION	BKR	P	CKT	A	B	C	CKT	P	BKR	LOAD DESCRIPTION		
PANEL "LP2"	100 A	3	1	9.1	0.4		2	1	20 A	REC - DOCK		
			3			8.9	0.2		4	1	20 A	REC - ROOF
			5					9.0	0.5	6	1	20 A
HP-2 / CC-2	35 A	2	7	2.7	4.2		8					
			9			2.7	4.2		10	3	50 A	CNC LATHING MACHINE
CNC MILLING MACHINE	35 A	3	11				3.0	4.2	12			
			13	3.0	0.4				14	1	20 A	ROBOTIC WELDER #2
			15			3.0	0.4		16	1	20 A	ROBOTIC WELDER #1
EXISTING CCT	20 A	1	17			1.0	1.0	18	1	20 A	EXISTING CCT	
EXISTING CCT	20 A	1	19	1.0	1.0			20	1	20 A	EXISTING CCT	
EXISTING CCT	20 A	1	21			1.0	1.0	22	1	20 A	EXISTING CCT	
EXISTING CCT	20 A	3	23			1.6	2.5	24				
			25	1.6	2.5			26	3	30 A	EXISTING CCT	
			27			1.6	2.5		28			
EXISTING CCT	20 A	3	29			1.6	1.6	30				
			31	1.6	1.6			32	3	20 A	EXISTING CCT	
			33			1.6	1.6		34			
EXISTING CCT	70 A	2	35			5.2	1.6	36				
			37	5.2	1.6			38	3	20 A	EXISTING CCT	
EXISTING CCT	40 A	2	39			3.0	1.6	40				
			41					42	1	20 A	SPARE	
SPARE	20 A	1	43	0.0	0.0		3.0	0.0	44	1	20 A	SPARE
			45			0.0	0.0		46	1	20 A	SPARE
SPARE	20 A	1	47				0.0	0.0	48	1	20 A	SPARE
			--	1	48	--	--	--		50	1	--
SPARE	20 A	1	51			--	--	--	52	1	--	SPACE
			--	1	53	--	--	--		54	1	--
			TOTAL LOAD:		35 kVA	33 kVA	35 kVA					
			TOTAL AMPS:		295 A	272 A	296 A					
LOAD CLASSIFICATION	CONNECTED	DEMAND			ESTIMATED	PANEL TOTALS						
MOTORS/EQUIPMENT	38478 VA	100.00%			38478 VA	CONNECTED LOAD: 102772 VA						
LIGHTING	1141 VA	125.00%			1428 VA	ESTIMATED DEMAND: 100267 VA						
RECEPTACLES	15760 VA	81.73%			12880 VA	CONNECTED CURRENT: 285.3 A						
						EST. DEMAND CURRENT: 278.3 A						
NOTES:												