DELAWARE COUNTY WAREHOUSE
SHARE FOOD PROGRAM, INC.

101 AMOSLAND ROAD HOLMES, PA 19043

BUILDING CODE SUMMARY

ALL WORK IS DESIGNED TO COMPLY WITH THE FOLLOWING:

- PENNSYLVANIA UNIFORM CONSTRUCTION CODE; (IBC 2018 WITH AMENDMENTS)
- 2018 IEBC 2018 IECC
- IBC 2018 CHAPTER 11 ACCESSIBILITY AND APPENDIX "E" SUPPLEMENTARY ACCESSIBILITY REQUIREMENTS
- ICC A117.1 2017 AS REFERENCED BY IBC 2018 CHAPTER 11

EXISTING BUILDING DESCRIPTION: ONE STORY MASONRY BUILDING WITH EXPOSED STEEL STRUCTURE AND EXTERIOR MASONRY WALLS

SPRINKERED: NO

CONSTRUCTION TYPE: "2B" USE GROUP "S-1 & B"

ALLOWABLE HEIGHT AND AREA:

	AREA MAX	HEIGHT IN FEET	HEIGHT IN STORIES
S-1	26,000 SF	55'	THREE STORIES
B	23,000 SF	55'	THREE STORIES

ACTUAL HEIGHT AND AREA:
9, OOO SF B AND S-1 UNSEPARATED, ONE STORY :: OK

NOTE: NO OCCUPANCY SEPARATION REQUIRED BETWEEN USE GROUPS S-1 AND B PER TABLE 504.8.

OCCUPANT LOAD:

B OCCUPANCY (OFFICE) 1,336 SF/150 = 9 OCCUPANTS
S-1 OCCUPANCY 7,361 / 500 = 15 OCCUPANTS

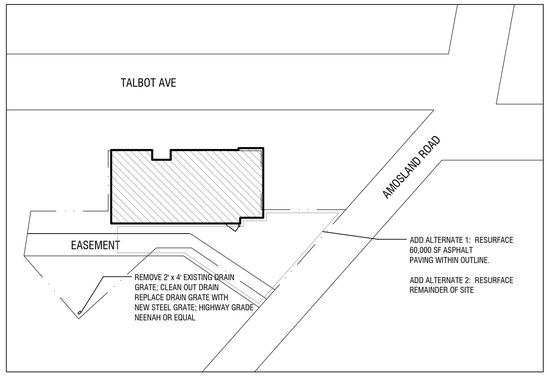
24 OCCUPANTS TOTAL

EXITS REQUIRED: ONE
EXITS PROVIDED: THREE : OK

REQUIRED PLUMBING FIXTURES

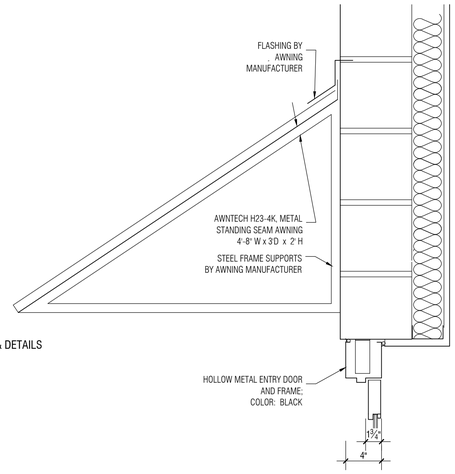
B OCCUPANCY 1 PER FIRST 25 PERSONS
S-1 OCCUPANCY 1 PER 100 PERSONS
TOTAL REQUIRED AND PROVIDED: 2 WATER CLOSETS, TWO LAVS, 1 DRINKING FOUNTAIN AND ONE MOP SINK.

ACCESSIBILITY: ACCESSIBLE ROUTE PROVIDED FROM PARKING LOT INTO AND OFFICE AREA. ACCESSIBLE RESTROOMS AND DRINKING FOUNTAINS REQUIRED AND PROVIDED.

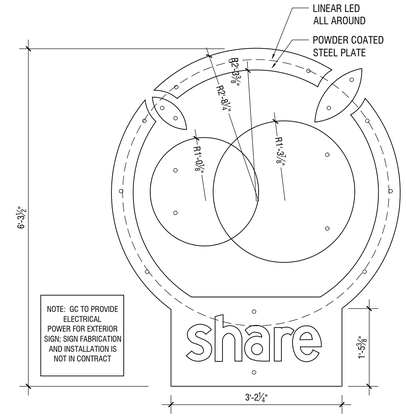


SITE PLAN

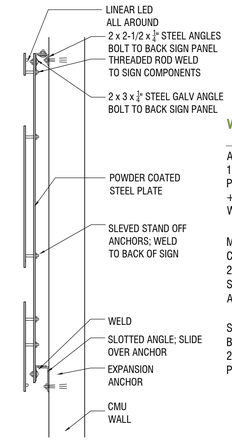
DRAWING LIST



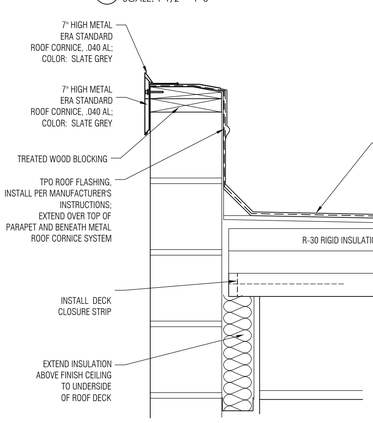
5 **SECTION AT AWNING**
SCALE: 1-1/2" = 1'-0"



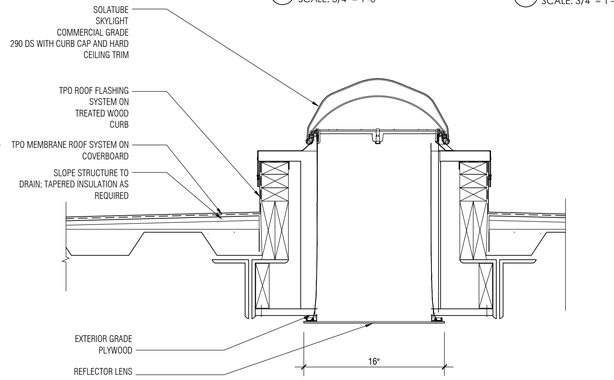
1 **FLATWALL SIGN**
SCALE: 3/4" = 1'-0"



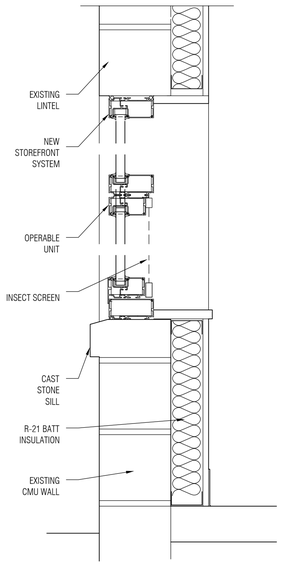
2 **SECTION THROUGH SIGN**
SCALE: 3/4" = 1'-0"



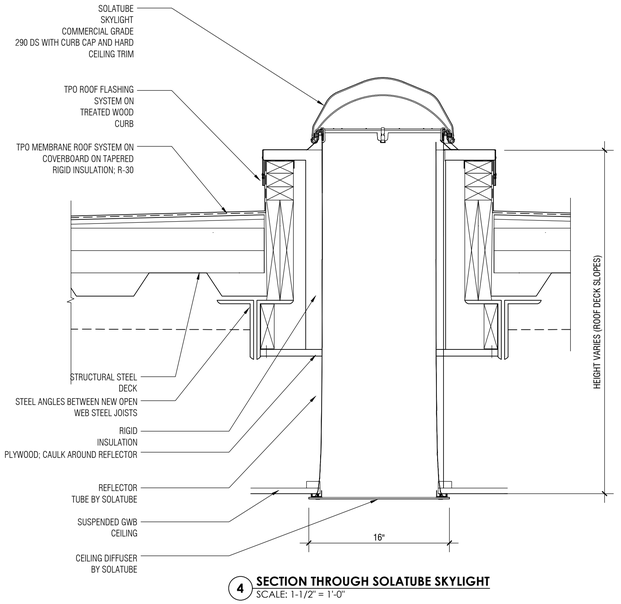
6 **PARAPET DETAIL**
SCALE: 1-1/2" = 1'-0"



3 **SECTION THROUGH SOLATUBE SKYLIGHT**
SCALE: 1-1/2" = 1'-0"



7 **WINDOW DETAIL**
SCALE: 1-1/2" = 1'-0"



4 **SECTION THROUGH SOLATUBE SKYLIGHT**
SCALE: 1-1/2" = 1'-0"

WOODCOCK DESIGN

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REGISTERED ARCHITECT PENNSYLVANIA JANICE WOODCOCK RA-014293-B

JANICE WOODCOCK, AIA
RA-014293-B
PHILA BPL: 154698

NO.	REVISION	DATE

SHEET NAME:

COVER SHEET

DATE: 11/7/2022 BID SET

C-0

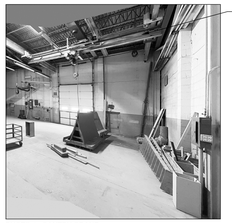


PHOTO 1- GANTRY CRANE

PHOTO 2- ELECTRICAL PANEL

PHOTO 3- OVERHEAD EQUIPMENT

PHOTO 4 STEEL BEAM ATTACHED TO BUILDING

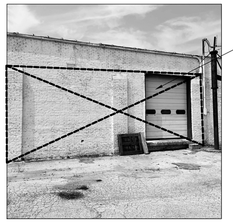


PHOTO 5- MASONRY WALL

PHOTO 6- WOOD STRUCTURE

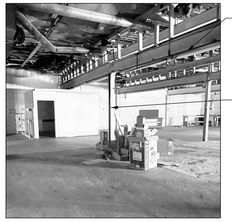
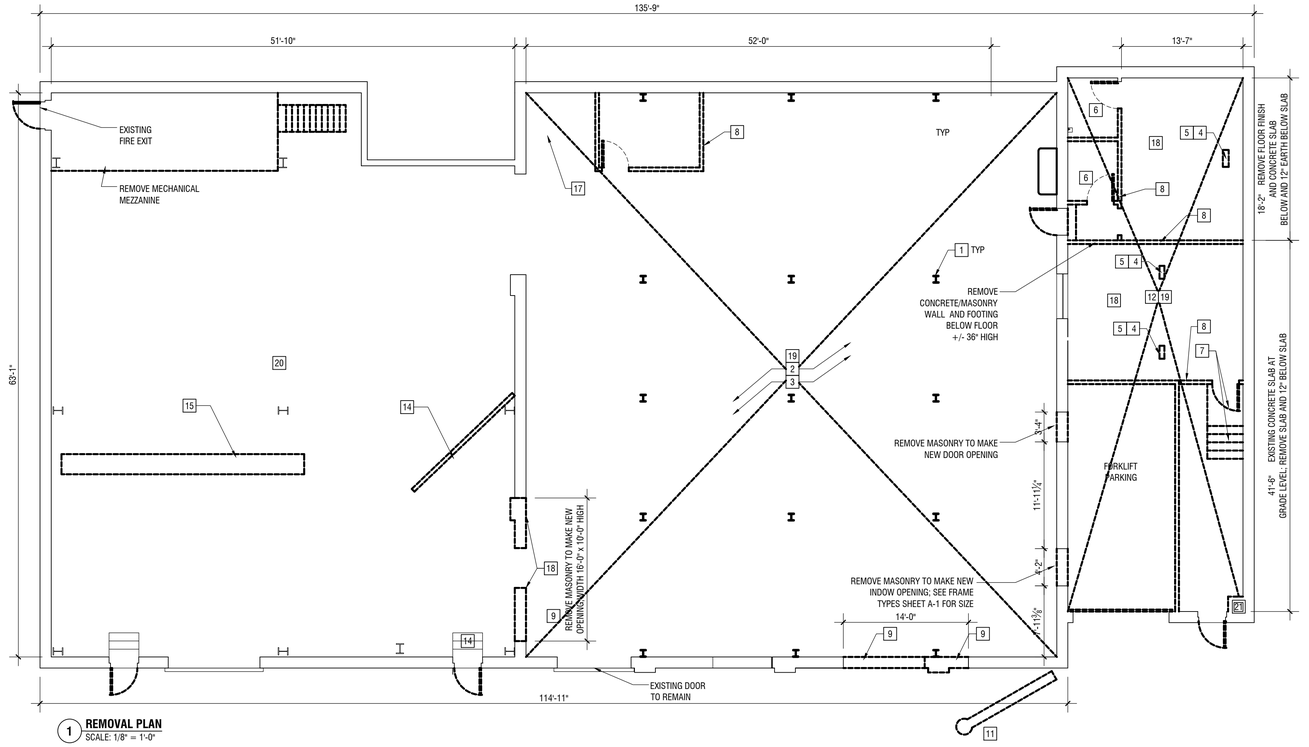


PHOTO 7- STEEL STRUCTURE

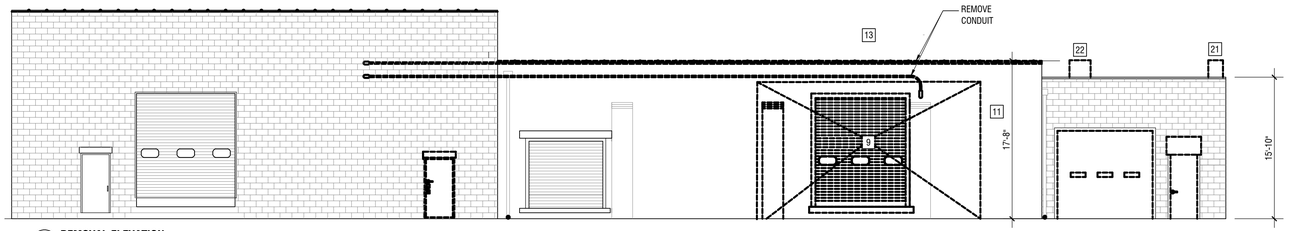
PHOTO 8- WOOD COLUMN, WALLS AND AND CEILINGS



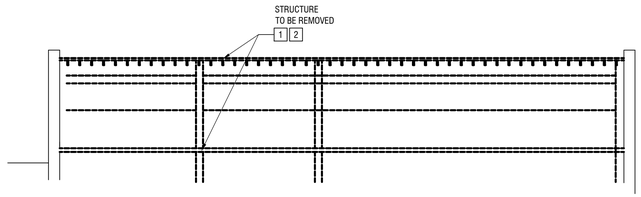
1 **REMOVAL PLAN**
SCALE: 1/8" = 1'-0"

REMOVALS

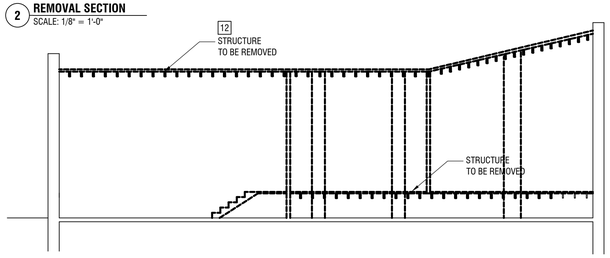
1. STEEL COLUMNS AND FOOTINGS; SEE PHOTO 7
2. ROOF STRUCTURE SEE PHOTO 7
3. CONCRETE SLAB AND 12" OF SOIL BENEATH (NOTE: VERIFY THAT SLAB DOES NOT HAVE GRAVEL BELOW, WHICH WOULD BE UNSUITABLE FOR NEW SLAB; SEE PHOTO 3
4. WOOD COLUMN; SEE PHOTO 8
5. CEILING, LIGHTING, FINISHES, TYP THIS AREA; SEE PHOTO 8
6. PLUMBING FIXTURES (SINK AND WATER CLOSET; CAP PIPING IF NOT USED IN NEW WORK
7. PLATFORM, STAIRS, AND ENTRY DOOR
8. INTERIOR DRYWALL PARTITION
9. SOLID MASONRY WALL; SHORE AS REQUIRED SHORING DESIGN BY CONTRACTOR; SEE PHOTO 5
10. OVERHEAD EQUIPMENT SEE PHOTO 3
11. STEEL BEAM , STEEL COLUMN, & CONC FOOTING; SEE PHOTO 4
12. ROOF STRUCTURE SEE PHOTO 6
13. COPING; REMOVE 1 COURSE BRICK AND AS REQUIRED TO EXTEND NEW MASONRY WALL
14. FLOOR LEVELER
15. GANTRY CRANE; SEE PHOTO 1
16. GANTRY CRANE; SEE PHOTO 1
17. REMOVE OIL TANK, HEATER AND DUCTWORK THIS AREA
18. REMOVE EXISTING LINTEL, MASONRY TO MAKE NEW ENLARGED OPENING
19. REMOVE MAIN ELECTRICAL SERVICE, DISCONNECTS, PANELS, WIRING, LIGHTS, AND DEVICES THIS AREA
20. REMOVE ELECTRICAL FEED THIS SECTION; EXISTING PANEL AND WIRING TO REMAIN
21. REMOVE CMU STACK
22. REMOVE ROOF VENT



3 **REMOVAL ELEVATION**
SCALE: 1/8" = 1'-0"



2 **REMOVAL SECTION**
SCALE: 1/8" = 1'-0"



4 **REMOVAL SECTION**
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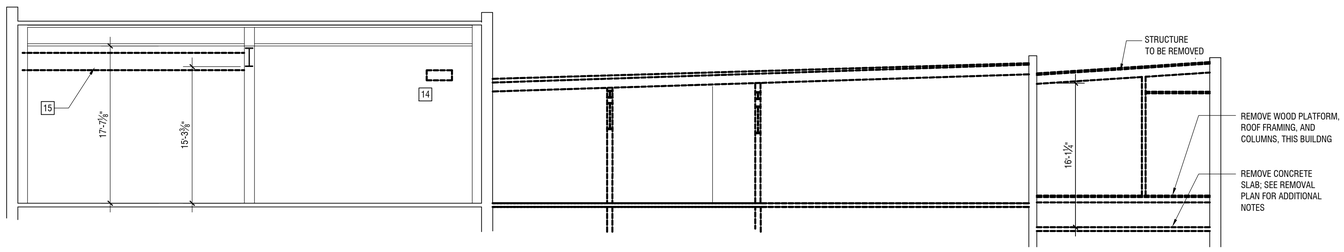

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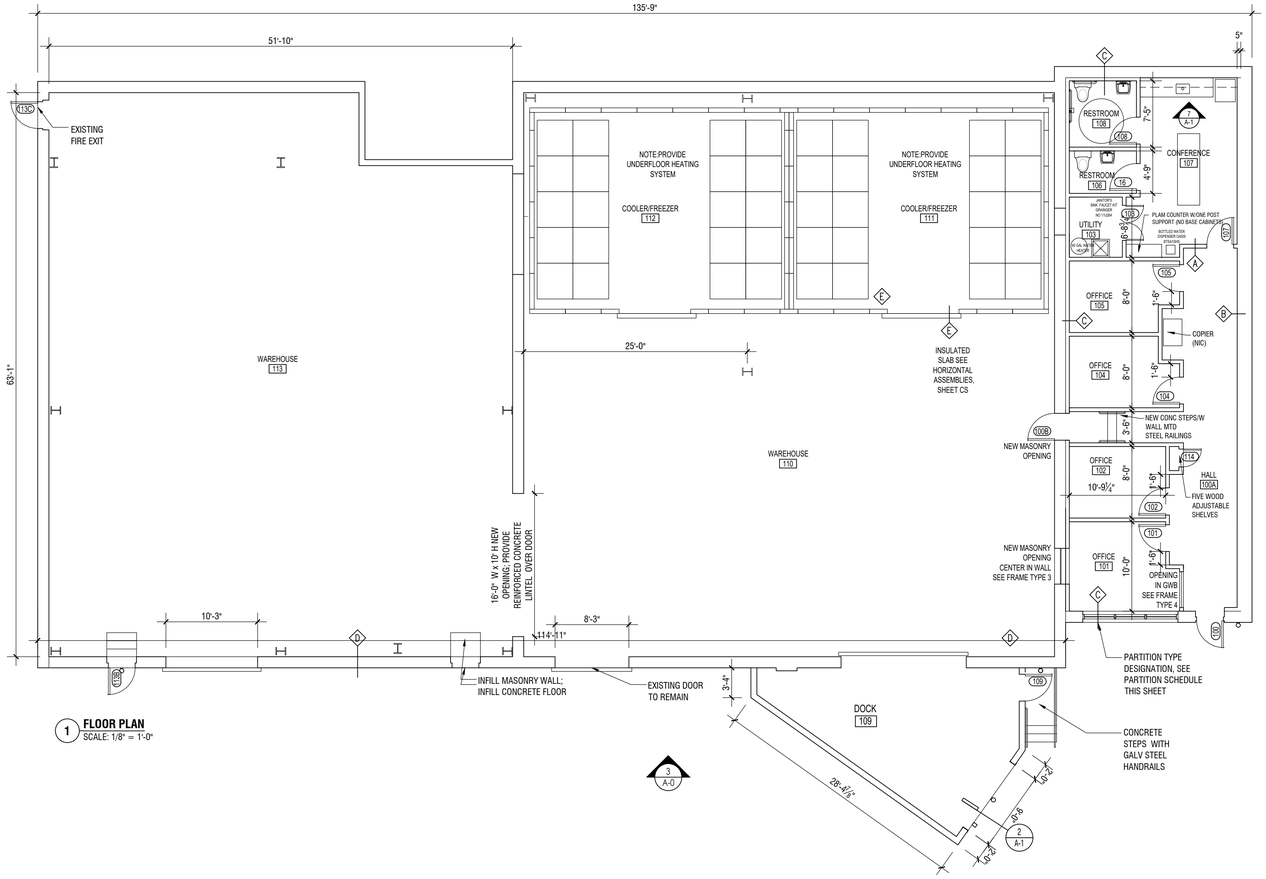
PHILA BPL: 154698

NO.	REVISION	DATE

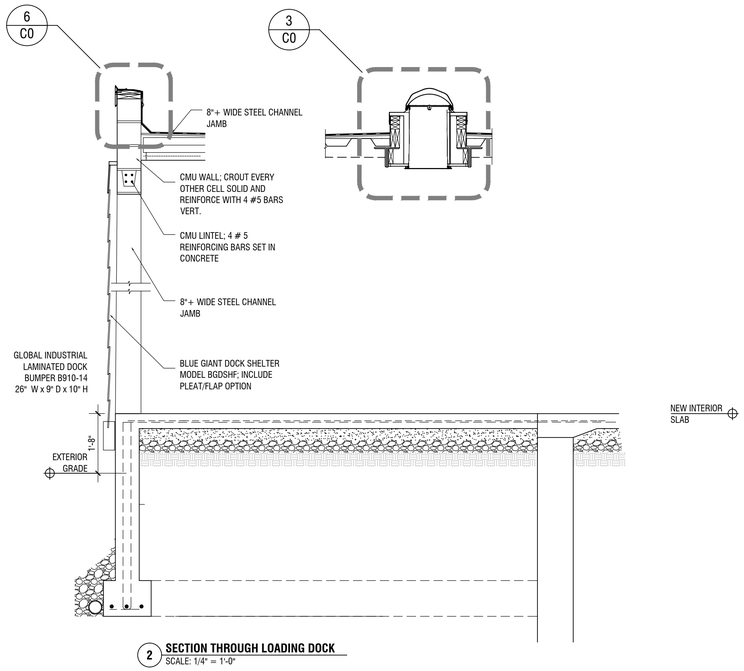
SHEET NAME:
SELECTIVE DEMOLITION PLANS

DATE: 11/7/2022 BID SET

D-1



1 FLOOR PLAN
SCALE: 1/8" = 1'-0"



2 SECTION THROUGH LOADING DOCK
SCALE: 1/4" = 1'-0"

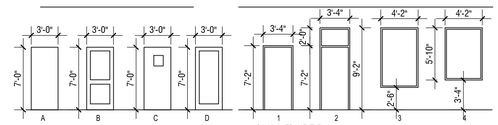
DOOR SCHEDULE

MARK	LOCATION	TYPE		DIMENSIONS	DOOR MATERIAL	FRAME MATERIAL	HARDWARE FUNCTION/ HARDWARE	NOTES
100	ENTRY	B	1	3'-0" x 7'-0"	ALUM	ALUM	ENTRANCE, CLOSER, BUTT HINGES, WALL STOP, WEATHERSTRIP	NOTE 1
100B	HALL	C	1	3'-0" x 7'-0"	HM	HM	CLASSROOM, CLOSER, BUTT HINGES, WEATHERSTRIP, KICKPLATE	
101	OFFICE	D	2	3'-0" x 7'-0"	HM	HM	OFFICE, BUTT HINGES, WALL STOP, WEATHERSTRIP	
102	OFFICE	D	2	3'-0" x 7'-0"	WD	HM	OFFICE, BUTT HINGES, WALL STOP,	
103	UTILITY	A	1	3'-0" x 7'-0"	WD	HM	OFFICE, BUTT HINGES, WALL STOP,	
104	OFFICE	D	2	3'-0" x 7'-0"	WD	HM	OFFICE, BUTT HINGES, WALL STOP,	
105	OFFICE	D	2	3'-0" x 7'-0"	WD	HM	OFFICE, BUTT HINGES, WALL STOP,	
106	RESTROOM	A	1	3'-0" x 7'-0"	WD	HM	PRIVACY, BUTT HINGES, WALL STOP, SILENCERS	
107	CONF	D	2	3'-0" x 7'-0"	WD	HM	OFFICE, BUTT HINGES, WALL STOP,	
108	RESTROOM	A	1	3'-0" x 7'-0"	WD	HM	PRIVACY, BUTT HINGES, WALL STOP, SILENCERS	
109	DOCK	C	1	3'-0" x 7'-0"	HM	HM	ENTRANCE, BUTT HINGES, KICKPLATE	
113A	WAREHOUSE	A	1	3'-0" x 7'-0"	HM	HM	EXIT ONLY, BUTT HINGES, KICKPLATE	
113B	WAREHOUSE	A	1	3'-0" x 7'-0"	HM	HM	EXIT ONLY, BUTT HINGES, KICKPLATE	
113C	WAREHOUSE	A	1	3'-0" x 7'-0"	HM	HM	EXIT ONLY, BUTT HINGES, KICKPLATE	
114	CLOSET	A	1	2'-0" x 7'-0"	HM	HM	STOREROOM, BUTT HINGES	

NOTE 1 PROVIDE ELECTRIC STRIKE WITH BUZZER. MOUNT RELEASE ON WALL ADJACENT TO DOOR 100. VON DUPRIN 6100 SERIES OR EQUAL

FINISH SCHEDULE

MARK	LOCATION	FLOOR	WALL MAT/FIN	BASE	CLG	NOTES
100	HALL	LVT	GWB/PNT	VWB	ACP	LVT: RIGID PLUS 5MM WATERPROOF FLOORING RP60D6010P
101	OFFICE	LVT	GWB/PNT	VWB	ACP	
102	OFFICE	LVT	GWB/PNT	VWB	ACP	
103	UTILITY	LVT	GWB/PNT	VWB	ACP	
104	OFFICE	LVT	GWB/PNT	VWB	ACP	
105	OFFICE	LVT	GWB/PNT	VWB	ACP	
106	RESTROOM	TILE	GWB/PNT	VWB	ACP	
107	CONF	LVT	GWB/PNT	VWB	ACP	
108	RESTROOM	TILE	GWB/PNT	VWB	ACP	
109	DOCK	CONC	CMU/PNT	--	--	PAINT EXISTING EXPOSED STRUCTURE
110	WAREHOUSE	CONC	CMU/PNT	--	--	PAINT EXISTING EXPOSED STRUCTURE
111	REF/FRZR	--	--	--	--	
112	REF/FRZR	--	--	--	--	
113	WAREHOUSE	CONC	CMU/PNT	--	--	PAINT EXISTING EXPOSED STRUCTURE

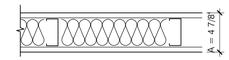


DOOR TYPES
SCALE: 1/8" = 1'-0"

FRAME TYPES
SCALE: 1/8" = 1'-0"

PARTITION SCHEDULE

A TYPICAL DRYWALL PARTITION EXTEND PARTITIONS TO UNDERSIDE OF STRUCTURE



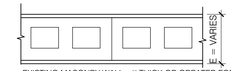
5/8" GWB BS ON 7-1/2, 5-1/2, 3-1/2" 22-GA STL STUDS, EXTEND TO UNDERSIDE OF STRUCTURE UNLESS NOTED OTHERWISE

B FURRING AT INTERIOR WALL

C FURRING AT EXTERIOR WALL

5/8" GWB ON 2 1/2" 22 GA STL STUDS, WITH R-15 BATT INS; BRACE STUDS TO WALL AT MID HEIGHT

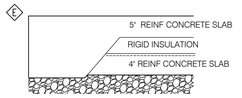
D EXISTING RATED MASONRY WALL



EXISTING MASONRY WALL: 4" THICK OR GREATER FOR TWO HOUR WALL, PER TABLE 720.1(2)

HORIZONTAL ASSEMBLIES

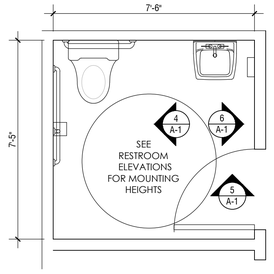
E



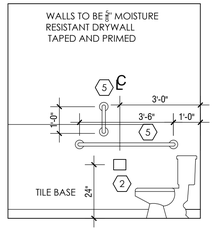
SLAB BENEATH FREEZER - 4" REINF CONCRETE SLAB ON 3" RIGID INSULATION ON 6 MIL POLYETHELENE 4" REINFORED SLAB ON 2" GRAVEL ON COMPACTED FILL; THICKEN SLAB AT PERIMETER; INSTALL SLAB FLUSH WITH ADJACENT CONCRETE FLOOR

BATHROOM ACCESSORIES SCHEDULE

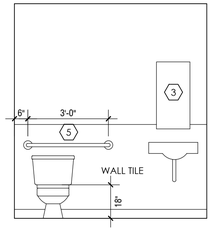
TAG	ITEM		MODEL NO	DIMENSIONS	REMARKS
1	WASTE RECEPTICLE	BOBRICK	B-3644	16" WIDE x 4" DEEP x 29-1/4"	RECESSED
2	T PAPER DISPENSER	BOBRICK	B-6977	SEE INTERIOR ELEVATIONS FOR LOCATION	
3	MIRROR	BOBRICK	B-165 2436	24 x 36	
4	ROBE HOOK	BOBRICK	B-6727	MOUNT AT 56" AFF	
5	GRAB BARS	BOBRICK	-	SEE INTERIOR ELEVATIONS	
6	PAPER TOWEL DISPENSER	BOBRICK	B-2620	11" W x14"Hx 4" D	SURFACE MOUONED
7	SOAP DISPENSER	RELIABLE BRAND	#LFS-12	"	1250 ML



3 ENLARGED RESTROOM PLAN
SCALE: 3/8" = 1'-0"



4 INTERIOR ELEVATION
SCALE: 3/8" = 1'-0"



5 INTERIOR ELEVATION
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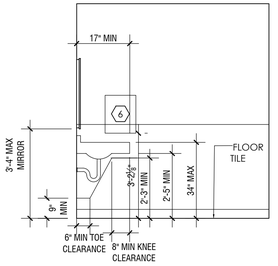
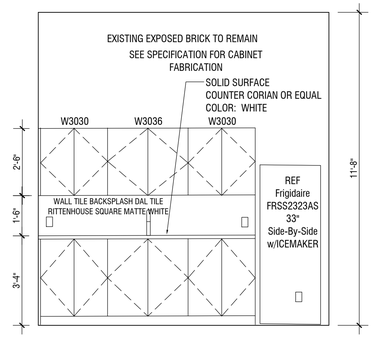


6 INTERIOR ELEVATION
SCALE: 3/8" = 1'-0"



FAUCET:Elkay LK6000CR, Chrome, Single Lever Handle
SINK:Elkay CROSSTOWN 12" x 18" UNDERMOUNT WITH EVOLUTION 1 HP DISPOSAL

8 INTERIOR ELEVATION KITCHENETTE
SCALE: 3/8" = 1'-0"

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PHILA BPL: 154698

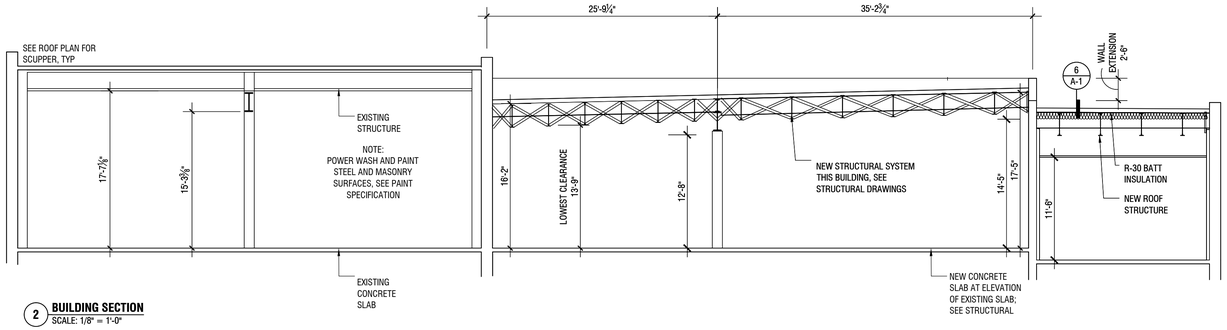
NO.	REVISION	DATE

SHEET NAME:

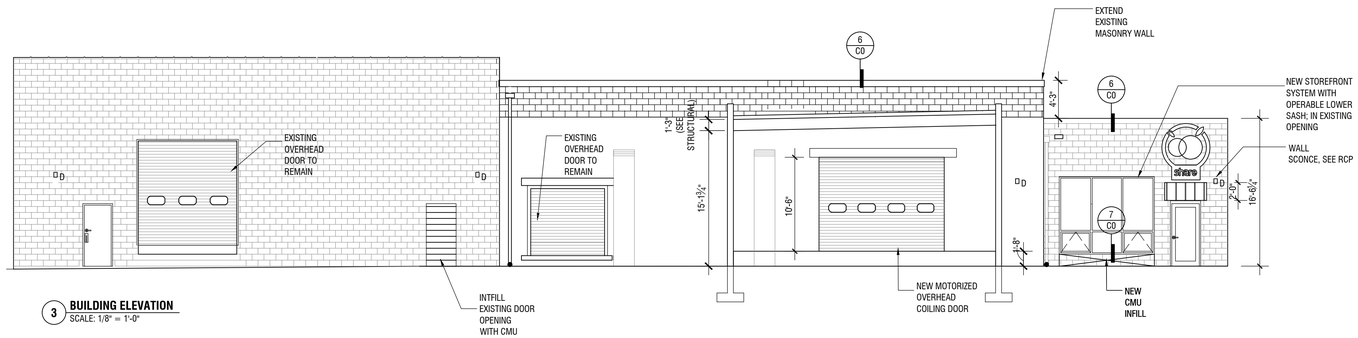
FLOOR PLAN & DETAILS

DATE: 11/7/2022 BID SET

A-1



2 BUILDING SECTION
SCALE: 1/8" = 1'-0"



3 BUILDING ELEVATION
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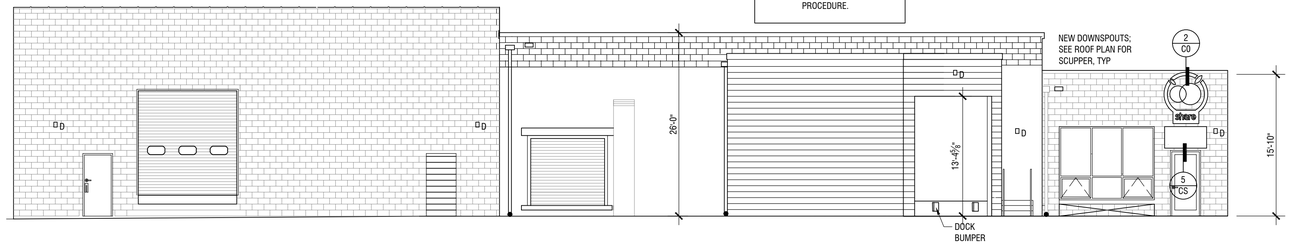
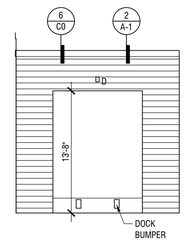
NOTE: PAINT EXISTING CMU AND MASONRY; SEE PAINT SPECIFICATION FOR PRODUCT AND APPLICATION PROCEDURE.



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



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

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JANICE WOODCOCK, AIA
RA-014293-B
PHILA BPL: 154698

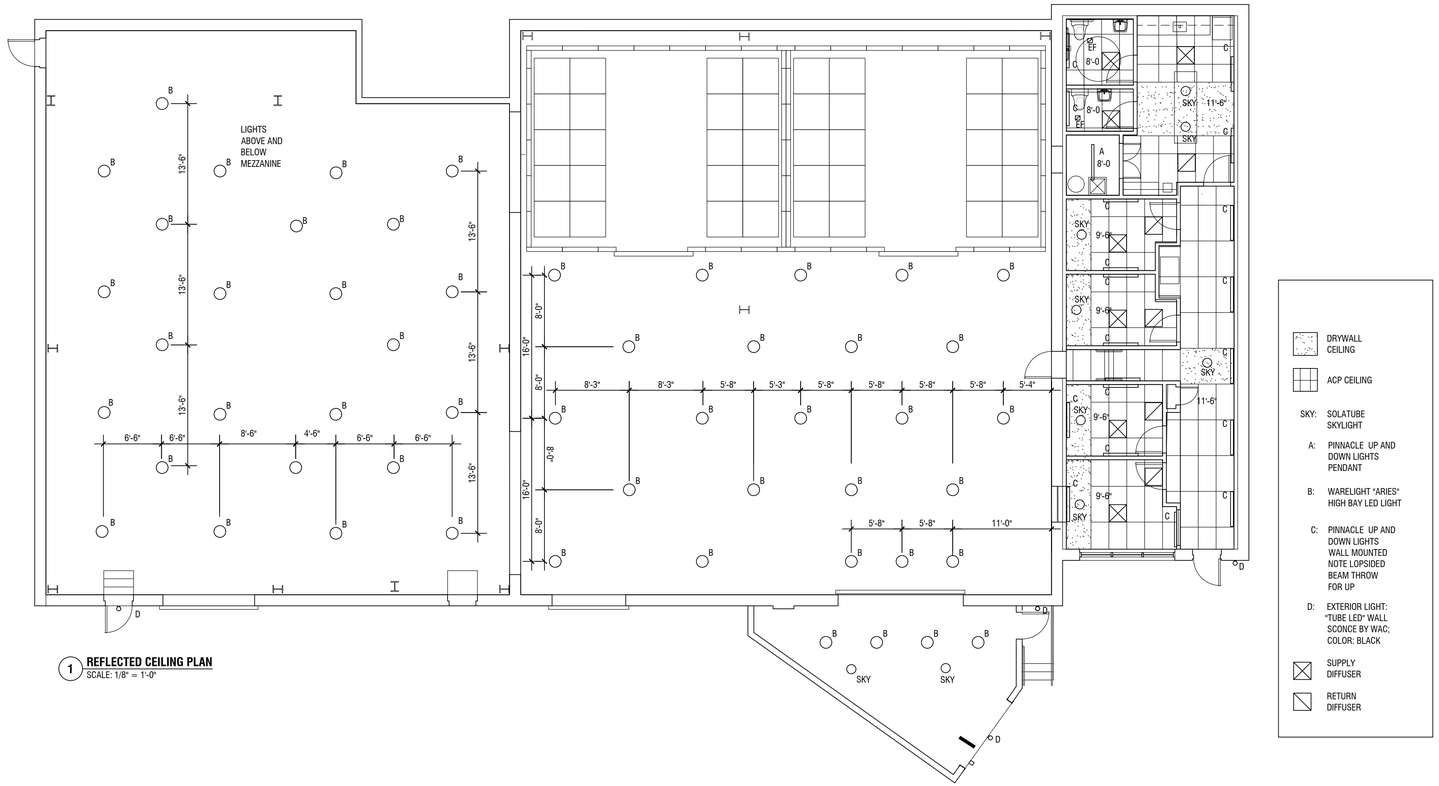
NO.	REVISION	DATE

SHEET NAME:

EXTERIOR ELEVATIONS

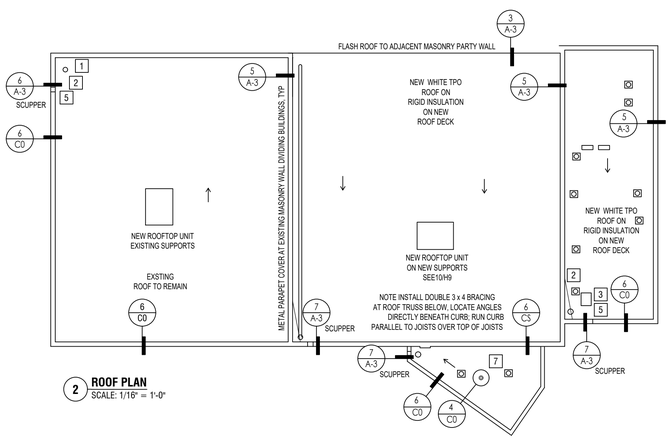
DATE: 11/7/2022 BID SET

A-2



1 REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"

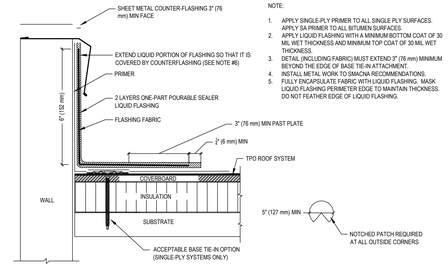
- DRYWALL CEILING
- ACP CEILING
- SKY: SOLATUBE SKYLIGHT
- A: PINNACLE UP AND DOWN LIGHTS PENDANT
- B: WARELIGHT "ARIES" HIGH BAY LED LIGHT
- C: PINNACLE UP AND DOWN LIGHTS WALL MOUNTED NOTE LOPSIDED BEAM THROW FOR UP
- D: EXTERIOR LIGHT: "TUBE LED" WALL SCONCE BY WAC; COLOR: BLACK
- SUPPLY DIFFUSER
- RETURN DIFFUSER



2 ROOF PLAN
SCALE: 1/16" = 1'-0"

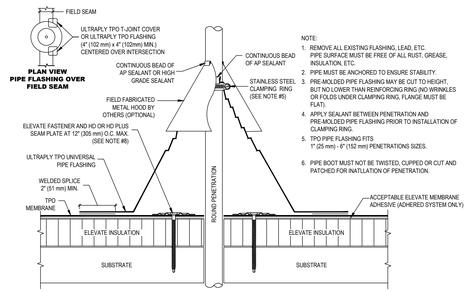
KEY NOTES FOR ROOF PLAN

1. PATCH HOLE WHERE FLUE REMOVED
2. NEW DRAIN AND DOWNSPOUT IN EXISTING LOCATION
3. PATCH HOLE WHERE DUCT REMOVED
4. REPAIR EXISTING ROOF DECK AS REQUIRED TO INSTALL NEW UNIT
5. INSTALL OVERFLOW SCUPPER
6. NEW DRAIN AND DOWNSPOUT
7. NEW ROOF PENETRATION FOR FLUE FROM BELOW
7. SOLAR TUBE, TYPICAL, SEE DETAILS 3 & 4/CS



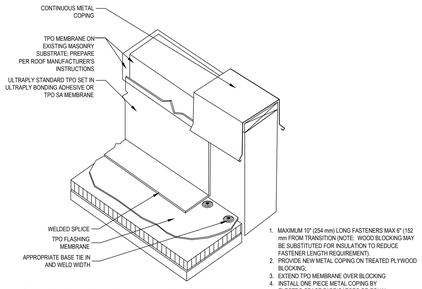
NOTE:
1. APPLY SINGLE-PLY PRIMER TO ALL SINGLE PLY SURFACES. APPLY SA PRIMER TO ALL BITUMEN SURFACES.
2. APPLY LIQUID FLASHING WITH A MINIMUM BOTTOM COAT OF 30 MIL WET THICKNESS AND MINIMUM TOP COAT OF 30 MIL WET THICKNESS.
3. DETAIL (INCLUDING FABRIC) MUST EXTEND 3" (76 mm) MINIMUM BEYOND THE EDGE OF BASE TIE-IN ATTACHMENT.
4. INSTALL METAL WORK TO SMACNA RECOMMENDATIONS.
5. FULLY ENCAPSULATE FABRIC WITH LIQUID FLASHING. MASK LIQUID FLASHING PERIMETER EDGE TO MAINTAIN THICKNESS. DO NOT FEATHER EDGE OF LIQUID FLASHING.

3 FLASHING AT EXISTING WALL
SCALE: N.T.S



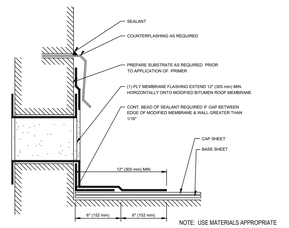
NOTE:
1. REMOVE ALL EXISTING FLASHING, LEAD, ETC. PIPE SURFACE MUST BE FREE OF ALL RUST, GREASE, INSULATION, ETC.
2. PIPE MUST BE ANCHORED TO ENSURE STABILITY.
3. PRE-MOLDED PIPE FLASHING MAY BE CUT TO HEIGHT, BUT NO LOWER THAN REINFORCING RING (NO WRINKLES OR FOLDS UNDER CLAMPING RING, FLANGE MUST BE FLAT).
4. APPLY SEALANT BETWEEN PENETRATION AND PRE-MOLDED PIPE FLASHING PRIOR TO INSTALLATION OF CLAMPING RING.
5. TPO PIPE FLASHING FITS 1" (25 mm) - 6" (152 mm) PENETRATIONS SIZES.
6. PIPE BOOT MUST NOT BE TWISTED, CUPPED OR CUT AND PATCHED FOR INSTALLATION OF PENETRATION.

4 ROOF PENETRATION
SCALE: N.T.S



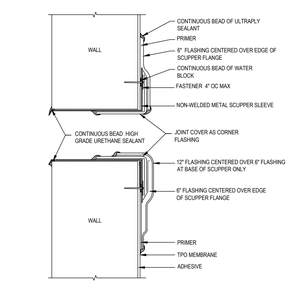
1. MAXIMUM 10" (254 mm) LONG FASTENERS MAX 8" (152 mm FROM TRANSITION (NOTE: WOOD BLOCKING MAY BE SUBSTITUTED FOR INSULATION TO REDUCE FASTENER LENGTH REQUIREMENT).
2. PROVIDE NEW METAL COPING ON TREATED PLYWOOD BLOCKING;
3. EXTEND TPO MEMBRANE OVER BLOCKING
4. INSTALL ONE PIECE METAL COPING BY ELECTRO-SPACE FABRICATORS OR EQUAL;

5 ROOF COPING BETWEEN BUILDINGS
SCALE: N.T.S



NOTE: USE MATERIALS APPROPRIATE FOR MODIFIED BITUMEN ROOF SYSTEMS; TO NOT MIX ROOF SYSTEM COMPNENTS

6 SCUPPER AT EXISTING ASPALT ROOF
SCALE: N.T.S



7 SCUPPER AT NEW TPO ROOF
SCALE: N.T.S

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JANICE WOODCOCK, AIA
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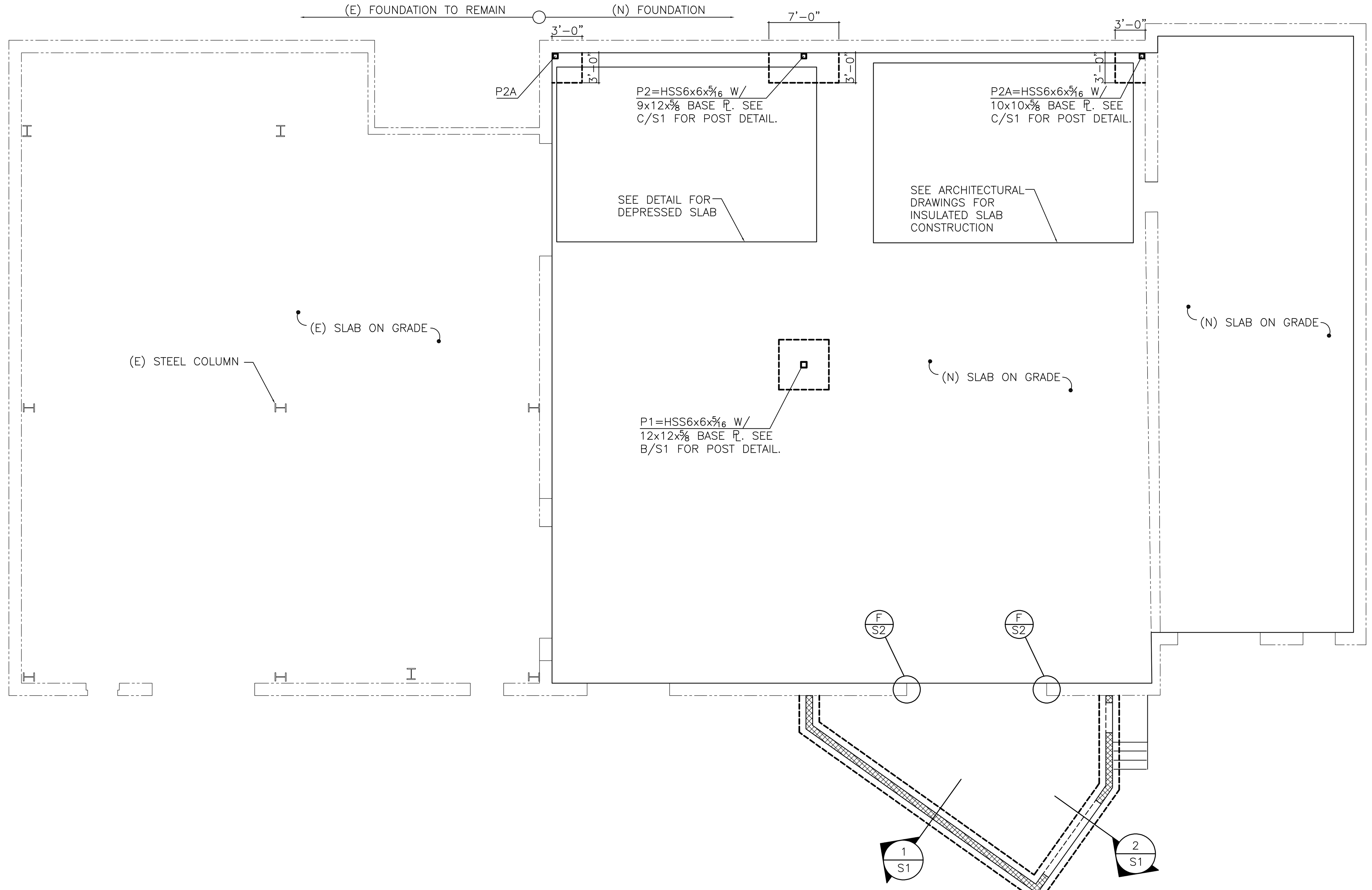
PHILA BPL: 154698

NO.	REVISION	DATE

SHEET NAME:
REFLECTED CEILING PLAN, ROOF PLAN & AND DETAILS

DATE: 11/7/2022 BID SET

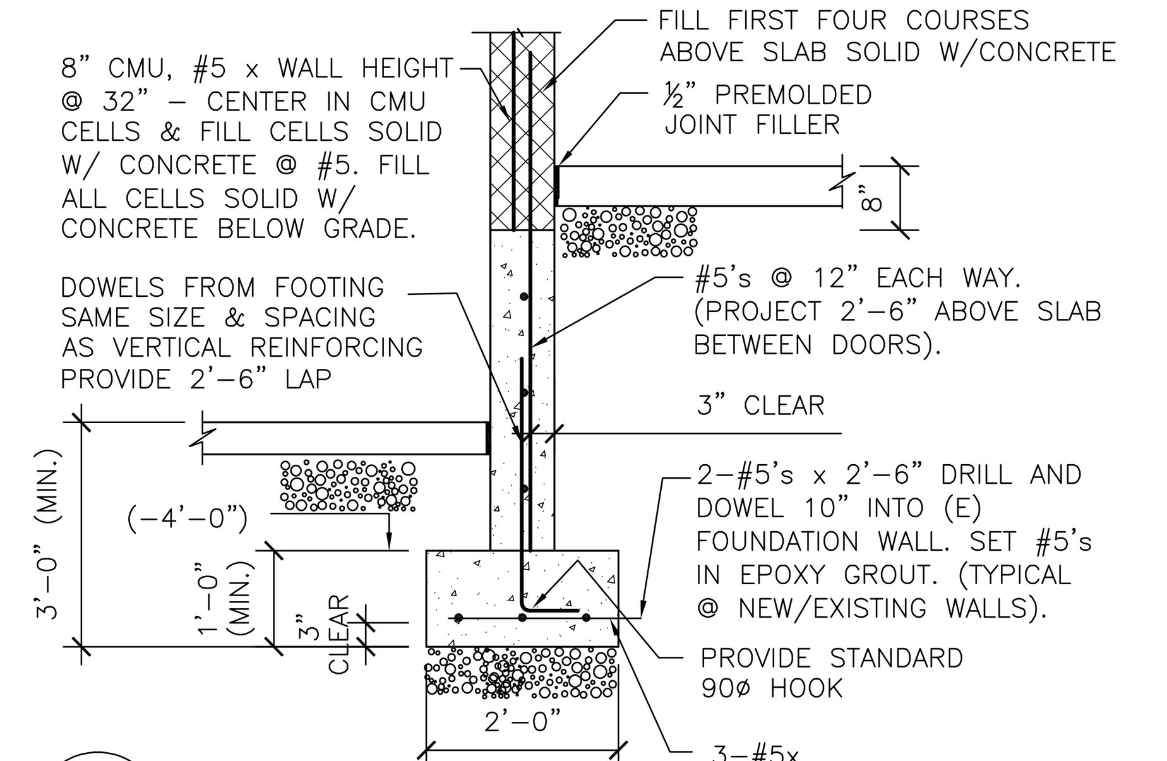
A-3



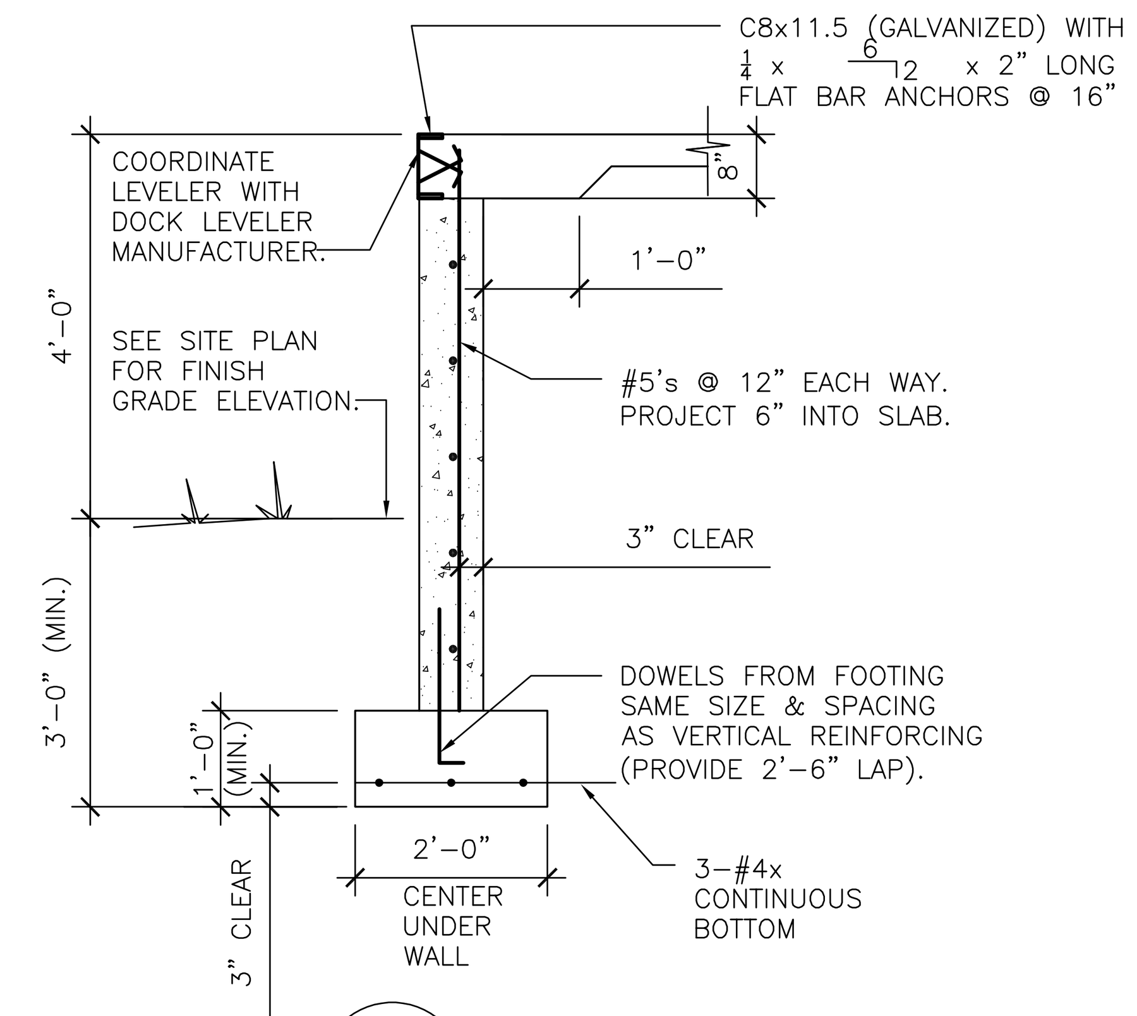
FOUNDATION PLAN

SCALE: ⅛"=1'-0"

1. PROVIDE 5" CONCRETE SLAB ON GRADE OVER 4" (PER GEOTECH REPORT) (MINIMUM) LAYER OF CRUSHED STONE. REINFORCE SLAB WITH FIBER MESH.
2. TOP OF SLAB ELEVATION = 0'-0" (USGS -'--") UNLESS NOTED THUS [. . .] RELATIVE TO THE DATUM ELEVATION. COORDINATE W/ ARCHITECTURAL DRAWINGS FOR TOP OF SLAB ELEVATION AND SLOPES AT GARAGE SLAB.
3. TOP OF FOOTING/GRADE BEAM ELEVATION = -2'-0" UNLESS NOTED THUS (. . .) RELATIVE TO TOP OF SLAB ELEVATION = 0'-0" .
4. CONTRACTOR SHALL COORDINATE LOCATION OF NEW AND OR EXISTING UTILITIES WITH RELATED SUB-CONTRACTORS PRIOR TO PLACING GRADE BEAMS.
5. "MW1" = 8" CMU WALL REINFORCED W/ #5 @ 32" VERTICAL. CENTER IN CMU CELLS AND FILL IN CELLS SOLID W/ CONCRETE @ #5'S.
6. SEE DRAWING S1 FOR TYPICAL DETAILS AND GENERAL NOTES.
7. SEE DRAWING S1 FOR TYPICAL FOOTING DETAILS.



1 SECTION S1 SCALE: ½"=1'-0"



2 SECTION S1 SCALE: ½"=1'-0"

GENERAL STRUCTURAL NOTES

1. Structural drawings to be used in conjunction with the Architectural drawings and Shop Drawings.
2. All dimensions and conditions must be field verified and any discrepancies brought to the attention of the Architect or Engineer before proceeding with the affected portion of the work.

FOUNDATIONS

1. Footings shall bear on soil capable of safely sustaining a net bearing pressure of 2000 PSF. The bearing capacity is to be verified by the Owner's Testing Agency. Footing concrete shall not be poured until the footing excavation and bearing material have been inspected by the Testing Agency.
2. If soil bearing capacity is not attainable at the footing bearing elevations indicated, footings to be lowered to a stratum of suitable bearing capacity.
3. Bottom of exterior footings to be a minimum of 3'-0" below finish grade.
4. If building is unheated during winter construction, the interior footings must be protected from frost action – either acting outward or upward on the foundation element.
5. Compact backfill in lifts of no more than 8" thick.
6. All interior floor and exterior sidewalk slabs to be placed on material compacted to 95% of its maximum dry density as measured by the Modified Proctor Test.
7. These foundations have been designed in accordance with the soils report issued by and dated. All recommendations noted in this report must be followed or the foundation design shown may be void.

CONCRETE

1. All concrete exposed to weather to have a minimum 28 day compressive strength of 4000 PSI with 6% air-entrainment and a maximum Water/Cement ratio of 0.44. All other concrete to have a minimum 28 day compressive strength of 3000 PSI. Fill concrete masonry unit (cmu) cells solid with 3000 PSI pea gravel (3/8" maximum aggregate size) concrete, see plan for locations.
2. All reinforcing steel to be deformed high bond bars and conforming to ASTM A-615, grade 60.
3. Unless otherwise noted, reinforcing bars shall be lapped 24" (minimum) at splices.
4. Submit design mix for each class of concrete, including admixture data, to the Architect for review. Allow ten working days for review.
5. All concrete shall be placed in accordance with the building regulations for reinforced concrete as adopted by the American Concrete Institute (ACI) and local codes.
6. Concrete shall be prepared. placed, and cured in accordance with the ACI requirements cold or hot weather concrete placing, as required. Protect concrete from freezing.
7. Concrete admixture information:
   Add an accelerator to concrete to be placed below 45 degrees F. conforming to ASTM C494, types C or E.
   Add a retarder to concrete to be placed above 90 degrees F. conforming to ASTM C494, type D.
   Air-entraining admixture to conform to ASTM C260.
   Contractor to provide written certification from the admixture manufacturer that the admixtures conform to the above requirements and contain no more than 0.1% chloride ions by weight of admixture.
   Calcium chlorides or thiocyanates are not permitted.
8. Tolerances:
   Footing centerlines to be within 2" of position indicated on the drawings. Footing width and thickness to be no less than that shown on the drawings.
   Slab-on-grade to be no more than 1/8" out of level in any 10 feet and be no less than the thickness indicated.
9. Before pouring concrete, coordinate location of all cast-in-place or embedded items- anchor bolts, sleeves, conduits, etc. with the other trades.

MASONRY

1. Concrete masonry units (cmu) above grade shall conform to ASTM C-145, grade N-1. Mortar shall conform to ASTM C-270, type N.
2. CMU below grade shall conform to ASTM C-145, grade N-1. Where grade is on both sides of wall, fill unit cells solid with concrete. See drawings for other locations where unit cells are to be filled solid with concrete. Mortar shall conform to ASTM C-270, type M or S.
3. Block cells containing anchor bolts, plates, or other framing accessories shall be filled solid with grout conforming to ASTM C-476, unless otherwise indicated. Admixtures containing calcium chlorides shall not be used.
4. Refer to Architectural drawings for size, dimension, and location of walls and control joints and veneer masonry requirements.
5. All steel to masonry connections to have full bed non-shrink grout conforming to ASTM C-476 between surfaces.
6. Provide all reinforcing shown on the drawings. Where required, masonry wall ties to be provided at 24" centers horizontal and vertical. Wall ties shall be galvanized.
7. Lap all reinforcing 24" (minimum) at splices.
8. Submit mortar design mix , including admixture data, concrete masonry unit test results, and reinforcing steel shop drawings to the Architect for review. Allow ten working days for review.
9. Provide precast concrete or masonry lintels capable of safely sustaining an uniform load of 900 pounds per lineal foot over the indicated span.
10. Wall joints to be reinforced with 9 gage "Dur-O-Wall" or equal at 16" centers vertical, unless noted otherwise.
11. Provide formed units for bond beams and lintels.
12. Temporary bracing and/or shoring of masonry elements is the Contractor's responsibility.

STRUCTURAL STEEL

1. Structural steel wide fangs and channel shapes to be ASTM A- 572, Grade 50 (Fy= 50 KSI). All structural steel plates to be ASTM A-36 (Fy=36 KSI), unless indicated otherwise on the drawings. Structural steel tubing to be ASTM A-500. Grade C (Fy=50 KSI). All steel to be fabricated, detailed, and erected in accordance with the latest American Institute of Steel Construction (AISC) standards.
2. All nuts, bolts, and washers to be high strength ASTM A-325, installed by the turn of nut method or calibrated torque wrench. All bolts to be 3/4" diameter, unless noted otherwise on the drawings.
3. All anchor bolts to be ASTM A-307, 3/4" diameter.
4. Welding electrodes shall conform to ASTM A-233, E70 series. Welds shall be made by welders who have been previously qualified by tests as prescribed in the American Welding Society (AWS) Standard Code for Welding in Building Construction.
5. Shop and erection drawings must show all shop and field welds.
6. All beam to beam connections to be standard double angle (5/16" minimum angle thickness) shear connections, unless indicated otherwise, with the following number of rows of 3/4" diameter bolts:
   W18/W21 4 rows
7. Field cutting or burning of structural steel is prohibited without the expressed approval of the Structural Engineer.
8. Shop drawings of all structural steel must be submitted to the Architect for review. Allow ten working days for review.
9. Structural steel primer paint to be fabricator's standard.
10. Temporary bracing and/or shoring of the structural steel elements is the Contractor's responsibility.

STRUCTURAL STEEL JOISTS

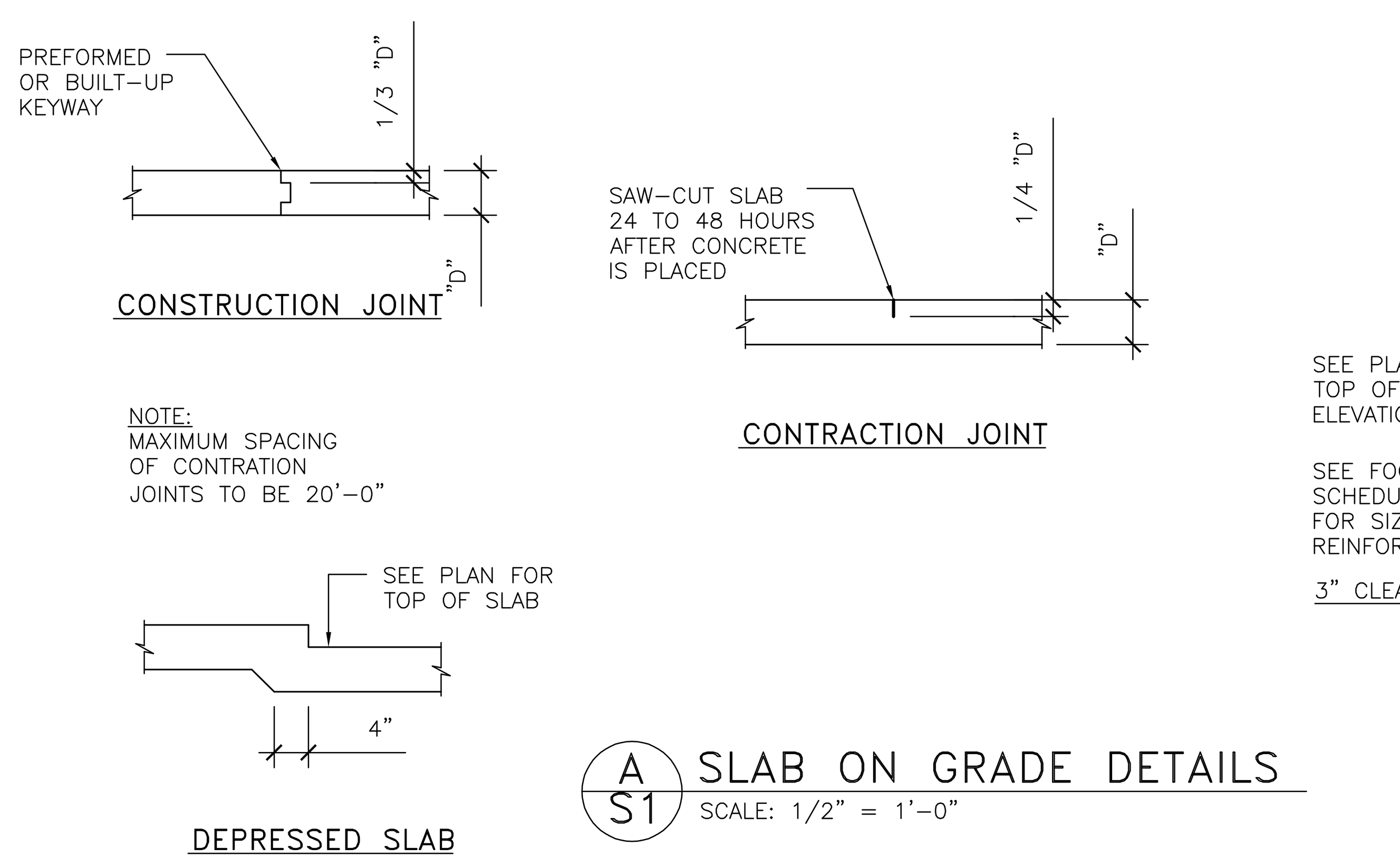
1. Steel joists, including bridging, shall be fabricated, detailed, and erected in accordance with the current standards of the Steel Joist Institute and manufactured by a member of the SJI.
2. All joist extensions shall be provided as part of the manufacturing process, unless otherwise noted.
3. Joist bearing seat must extend a minimum of 1" past the supporting beam centerline. Provide at least 2" of 1/4" fillet weld each side of joist seat.
4. Where joist slope exceeds 1/4" per foot, use special seat such that joist sits flat on supporting surface.
5. One steel joist per bay must bear the standard SJI designation for that joist.
6. Shop drawings of all structural steel joists must be submitted to the Architect for review. Allow ten working days for review.
7. All joists shall be designed for the following conditions:
   A. The SJI specified uniform Total and Live Load per foot.
   B. For roof joists, a dead load of 15 pounds per square foot (PSF), not including joist weight, and a live (snow) load of 30 PSF.

COLD FORMED METAL FRAMING

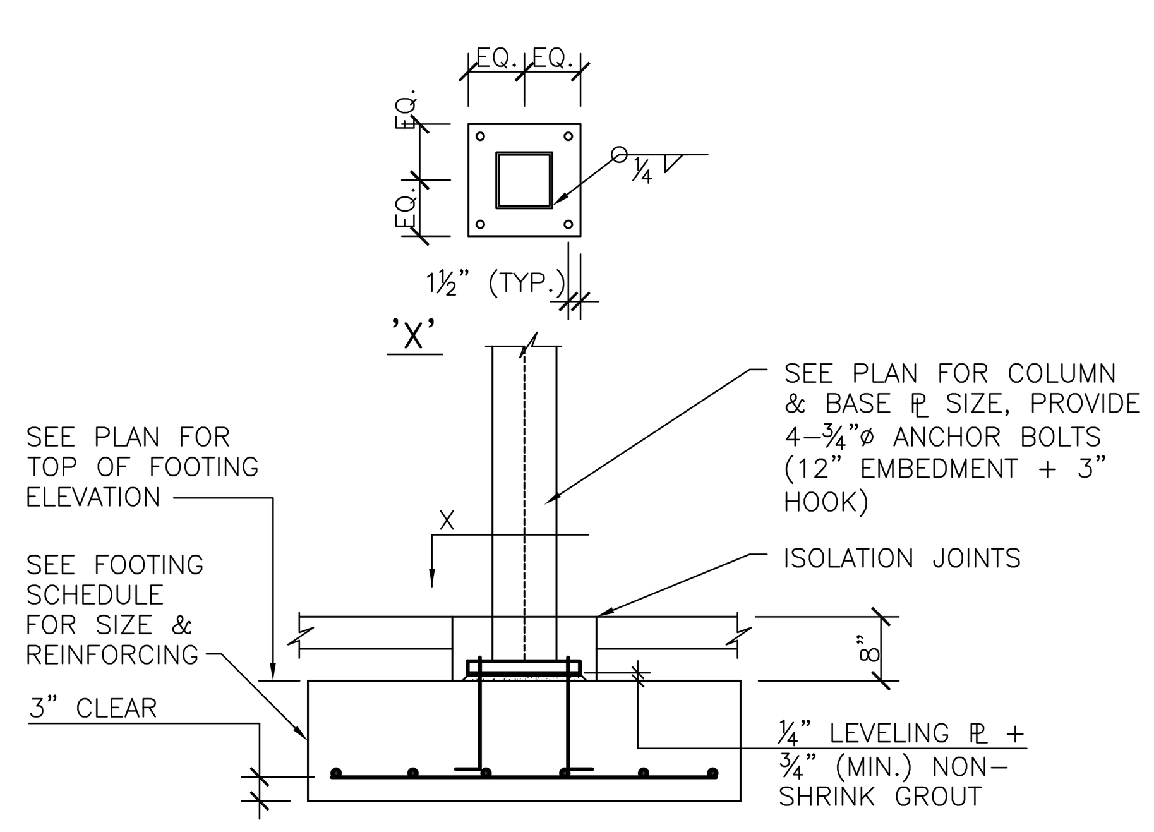
1. All metal joists and accessories shall conform to the American Iron and Steel Institute (AISI) "Specifications for the Design of Cold-Formed Steel Structural Members," latest edition.
2. All joists and accessories to be galvanized. All 18 gage and lighter material to be formed from steel that conforms to the requirements of ASTM A-446 (Fy = 33 KSI). All 16 gage and heavier material to be formed from steel that conforms to the requirements of ASTM A-446 (Fy = 50 KSI).
3. All galvanized joists and accessories shall have a minimum G-60 coating.
4. All joist designations are based on those sections fabricated by Marino/ Ware Corp. Contractor may submit products from another manufacturer for review. Sections to be same depth, gage, and have similar section properties to those shown on the drawings.
5. Install joists and accessories in accordance with the manufacturer's recommendations.
6. Fastener material and installation to conform to Federal Specification FF-P-395.
7. Submit manufacturer's data sheets showing joist structural and geometric properties and connections to the Architect for review. Allow ten working days for review.
8. The Contractor is responsible for properly storing, handling, and installing joists and accessories. Damaged material to be replaced.

METAL DECK

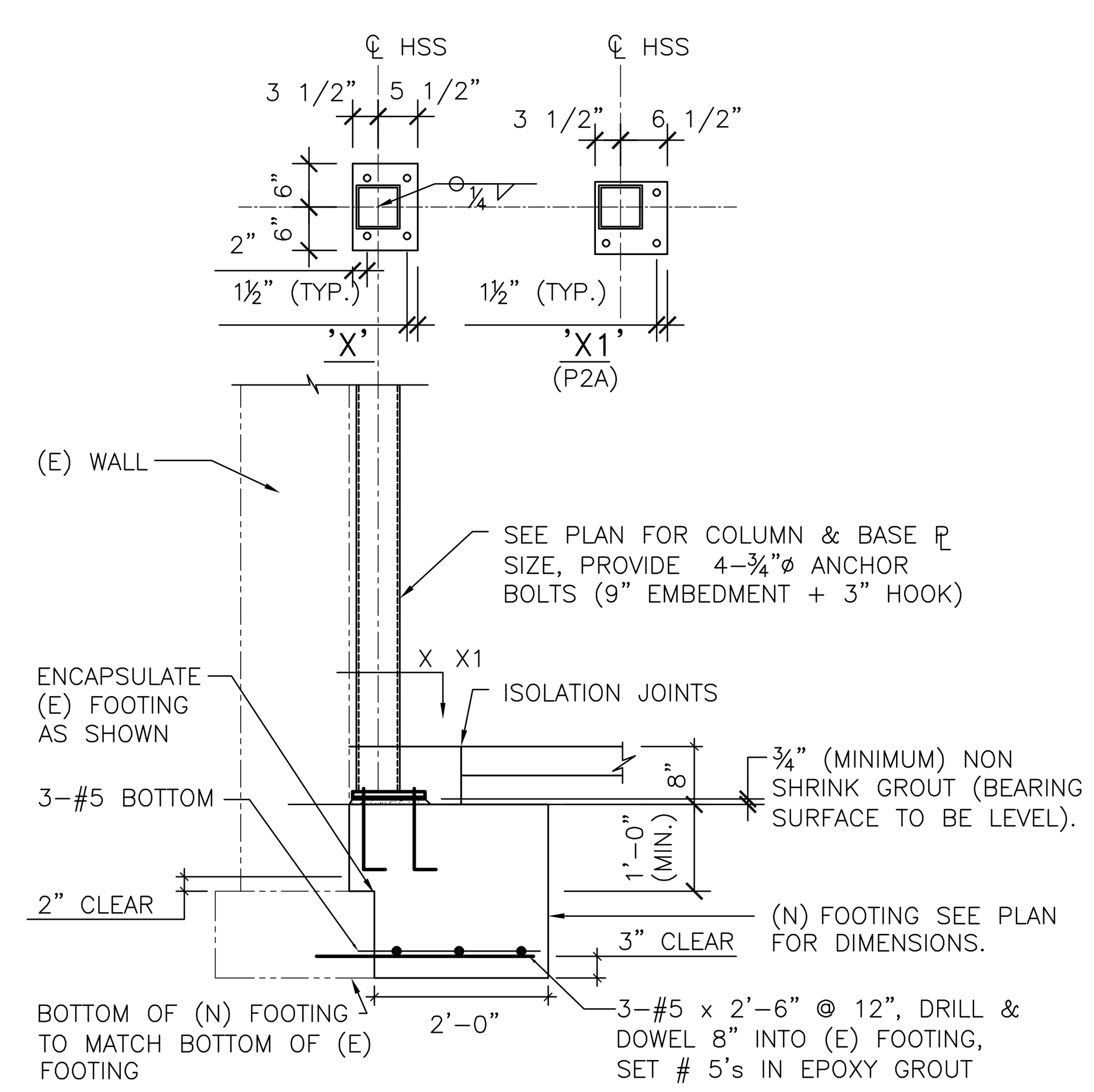
1. All roof deck to be 1-1/2" rib depth, type B (wide rib), 20 gage, painted deck. Deck to be continuous over three spans. Attach deck to supports at 12" centers. Side joints to be fastened together with self-tapping screws at midspan.
2. All roof deck shall be manufactured and installed to meet Factory Mutual criteria.
3. Deck contractor shall provide roof openings in deck as required.
4. Shop drawings of all metal deck must be submitted to the Architect for review. Allow ten working days for review.



A SLAB ON GRADE DETAILS S1 SCALE: 1/2" = 1'-0"



B FOOTING DETAIL S1 SCALE: ½"=1'-0"



C NEW COLUMN @ EXISTING WALL DETAIL S1 SCALE: ½"=1'-0"

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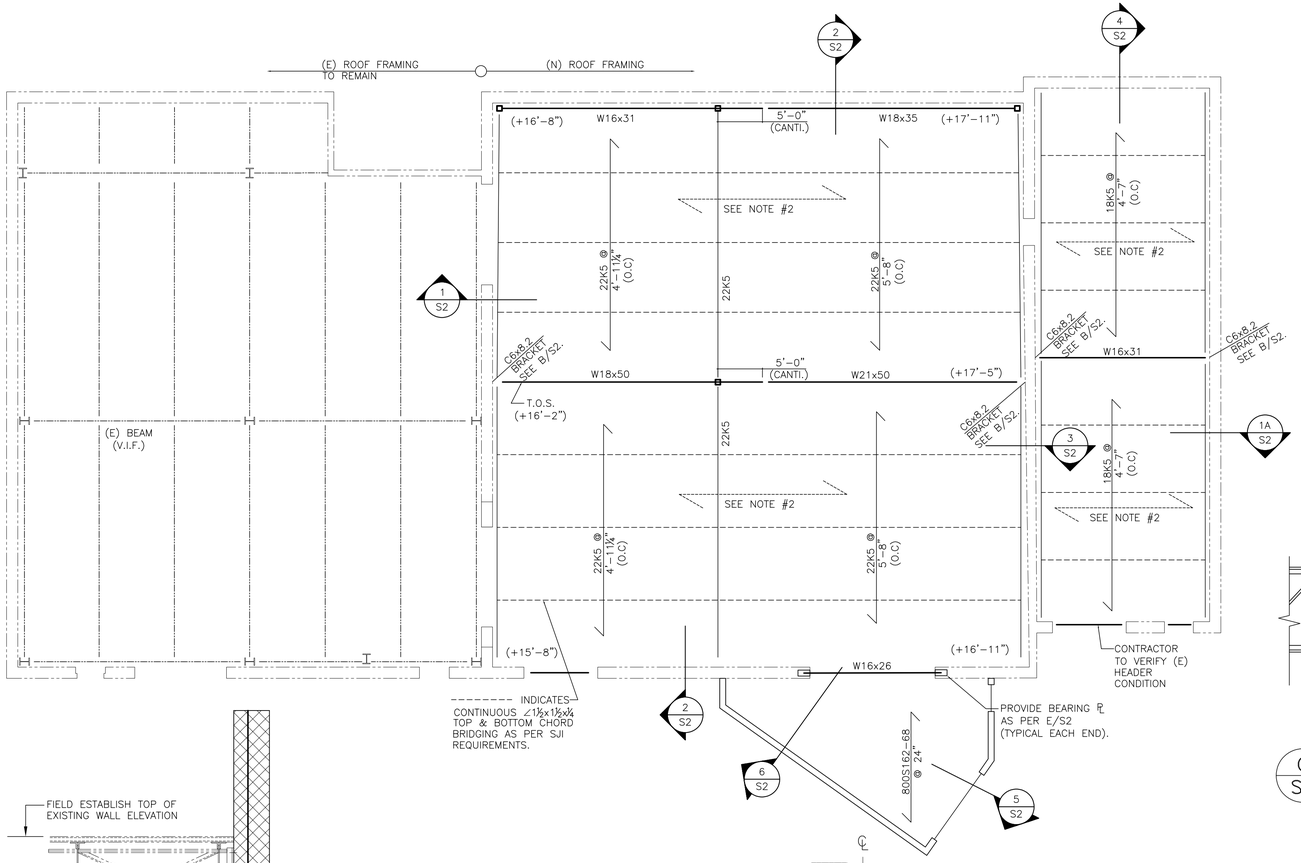
NO.	REVISION	DATE
1	LOADING DOCK ADDITION	9/27/22

SHEET NAME:
FOUNDATION PLAN

DATE:
04/25/2022

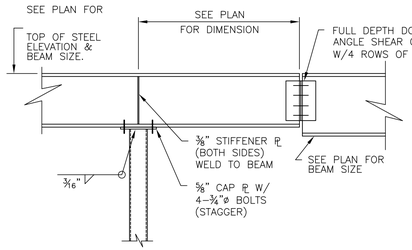
S1



N ROOF FRAMING PLAN

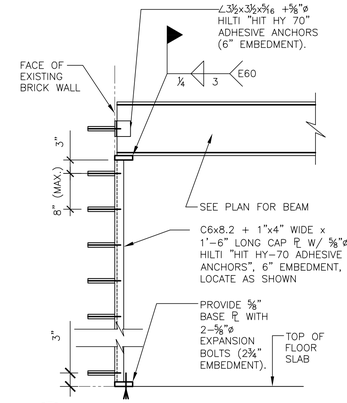
SCALE: ⅛"=1'-0"

1. SEE PLAN FOR TOP OF STEEL. TOP OF (E) ROOF SLAB ELEVATION +16'-8" (DATUM ELEVATION = 0'-0").
2. <---------> INDICATES SPAN OF 1½", 20 GAGE PAINTED METAL ROOF DECK. PROVIDE SIDELAP FASTENERS AT 12" (MAXIMUM) SPACING.
3. (SL) INDICATES SLOPING BEAM
4. COORDINATE SIZE AND LOCATION OF ALL DUCT PENETRATIONS WITH MECHANICAL DRAWINGS.
5. SEE DRAWING S1 FOR TYPICAL DETAILS AND GENERAL NOTES.



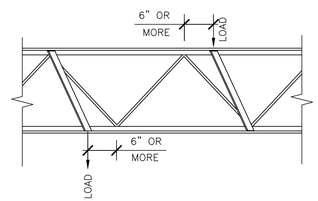
A S2 CANTILEVER BEAM DETAIL

SCALE: ½"=1'-0"



B S2 SECTION

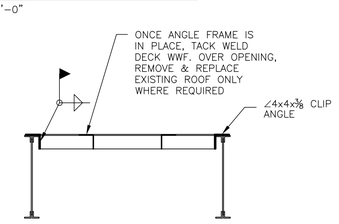
SCALE: ¾"=1'-0"



C S2 DETAIL WHEN LOADS ARE APPLIED TO JOISTS

SCALE: ¾"=1'-0"

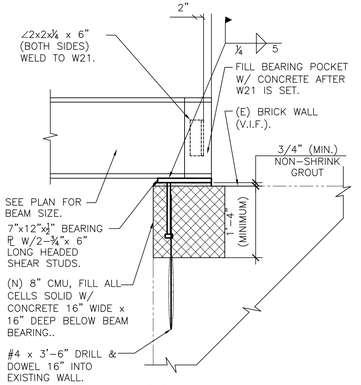
NOTE: WHEN LOADS OCCUR 6" OR MORE FROM PANEL POINT, FIELD WELD ∠2x2x¼ TO PANEL POINT FROM WHERE LOAD OCCURS



D S2 TYPICAL ROOF OPENING DETAIL

SCALE: ¾"=1'-0"

NOTE: IF LARGEST OPENING DIMENSION IS:
2'-0" OR LESS USE ∠3½"x3½"x¼"
5'-0" OR LESS USE ∠4"x3½"x5/16" (LLV)
7'-0" OR LESS USE ∠5"x3½"x⅜" (LLV)



E S2 SECTION

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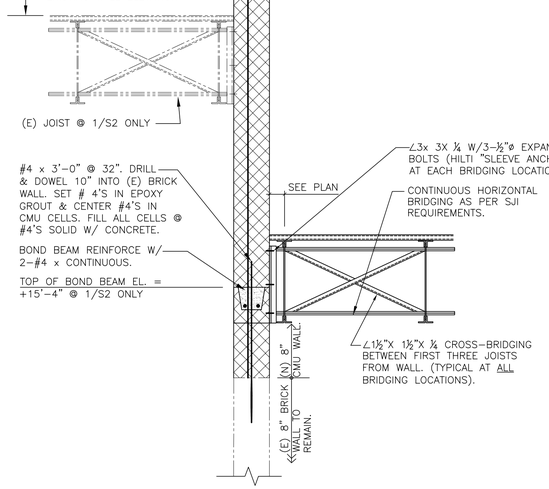
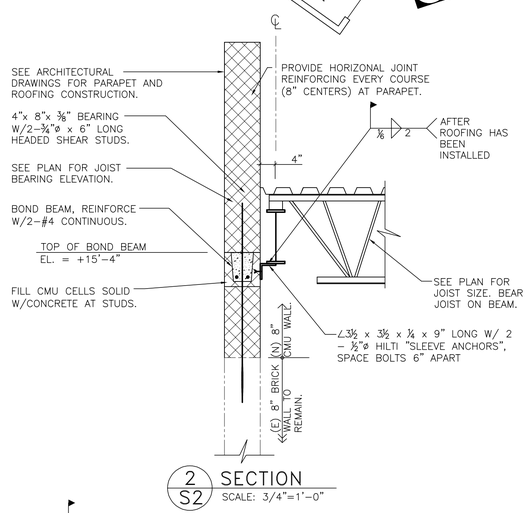


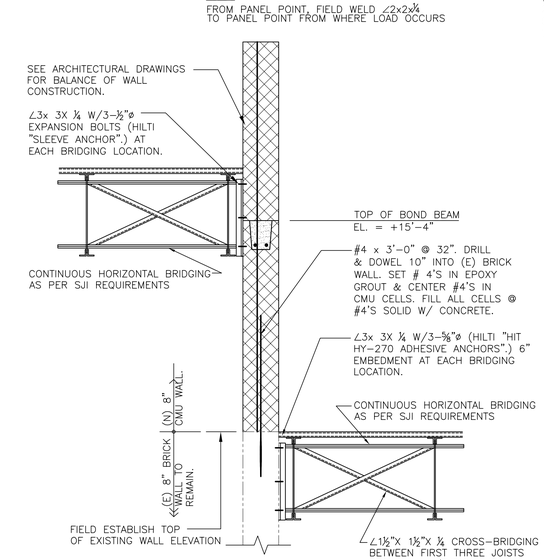
1 S2 1A S2 SECTION

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



2 S2 SECTION

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



3 S2 SECTION

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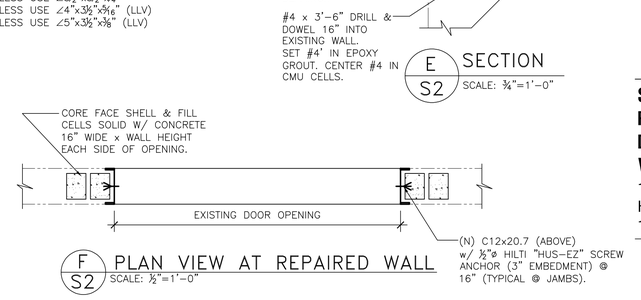
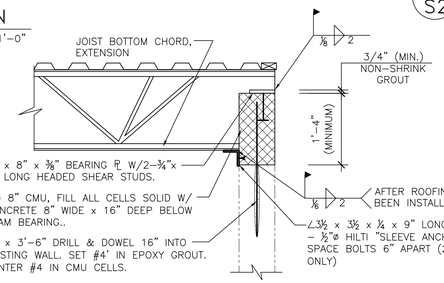


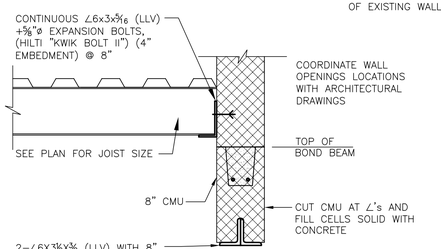
F S2 PLAN VIEW AT REPAIRED WALL

SCALE: ½"=1'-0"



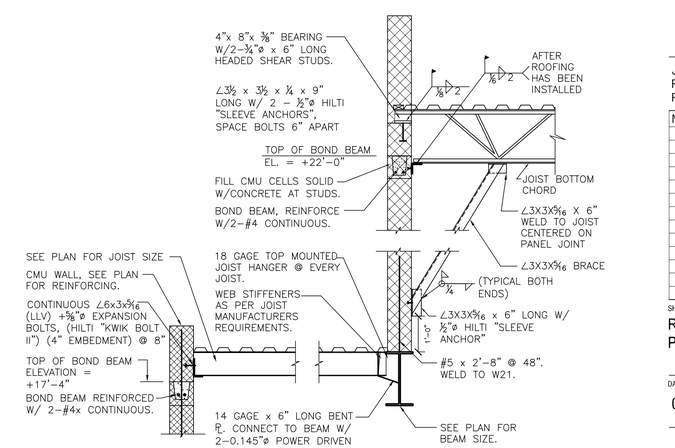
4 S2 SECTION

SCALE: ¾"=1'-0"



5 S2 LINTEL DETAILS

SCALE: 1"=1'-0"



6 S2 SECTION

SCALE: ½"=1'-0"

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JANICE WOODCOCK, AIA
RA-014293-B
PHILA BPL: 154698

NO.	REVISION	DATE
1	LOADING DOCK ADDITION	9/27/22

SHEET NAME:
ROOF FRAMING PLAN

DATE:
04/25/2022

S2

GENERAL REQUIREMENTS

1. EXAMINE JOB SITE AND VERIFY ALL SITE CONDITIONS PRIOR TO STARTING WORK. BRING ANY DISCREPANCY BETWEEN THE CONTRACT DOCUMENTS AND THE ACTUAL FIELD CONDITIONS TO THE ATTENTION OF THE ARCHITECT.
2. THE DRAWINGS ARE DIAGRAMMATIC. COORDINATE IN THE FIELD, WITH THE ARCHITECT AND WITH ALL TRADES, THE EXACT LOCATION OF EQUIPMENT, FIXTURES, VALVES, THERMOSTATS, ETC. AND ROUTING OF PIPING, DUCTWORK, CONDUIT, ETC.
3. ARRANGE FOR PIPE SPACES, CHASES, SLOTS, AND OPENINGS IN BUILDING STRUCTURE DURING PROGRESS OF CONSTRUCTION, TO ALLOW FOR MECHANICAL INSTALLATIONS.
4. COORDINATE INSTALLATION OF REQUIRED SUPPORTING DEVICES AND SET SLEEVES IN POURED-IN-PLACE CONCRETE AND OTHER STRUCTURAL COMPONENTS AS THEY ARE CONSTRUCTED.
5. COORDINATE REQUIREMENTS FOR ACCESS PANELS AND DOORS FOR MECHANICAL ITEMS REQUIRING ACCESS THAT ARE CONCEALED BEHIND FINISHED SURFACES.
6. PERFORM WORK IN ACCORDANCE WITH RULES, REGULATIONS, STANDARDS, CODES, ORDINANCES, AND LAWS OF LOCAL, STATE, AND FEDERAL GOVERNMENTS, AND OTHER AUTHORITIES HAVING JURISDICTION AND BE RESPONSIBLE FOR COMPLIANCE THEREWITH.
7. GUARANTEE ALL SYSTEMS AND WORK FOR A PERIOD OF ONE (1) YEAR FROM DATE OF FINAL ACCEPTANCE.
8. ALL MATERIALS SHALL BE NEW AND OF COMMERCIAL GRADE AND BEAR THE UNDERWRITER'S LABEL WHERE APPLICABLE.
9. LOCATE ALL EXISTING UTILITIES AND MAKE SERVICEABLE CONNECTIONS TO SAME.
10. OBTAIN APPROVAL FROM THE BUILDING OWNER'S REPRESENTATIVE PRIOR TO ANY INTERRUPTION OF BUILDING SYSTEMS. COORDINATE ACCEPTABLE WORKING HOURS WITH SAME.
11. ALL CUTTING AND PATCHING IS BY RESPECTIVE CONTRACTORS. CORE DRILL OR SAW CUT ALL MASONRY AND RESTORE ALL SURFACES TO ORIGINAL CONDITION.
12. CUT, FIT, AND PLACE MISCELLANEOUS METAL SUPPORTS ACCURATELY IN LOCATION, ALIGNMENT, AND ELEVATION TO SUPPORT AND ANCHOR MECHANICAL MATERIALS AND EQUIPMENT.
13. BEFORE ORDERING ANY MATERIAL OR DOING ANY WORK, THE MECHANICAL CONTRACTOR SHALL CHECK AND VERIFY ALL MEASUREMENTS, INCLUDING LINES, GRADES, PIPE AND DUCT ELEVATIONS AT THE BUILDING AND SHALL BE RESPONSIBLE FOR THE CORRECTNESS OF SAME.
14. "PROVIDE" SHALL MEAN FURNISH AND INSTALL, MAKE ALL FINAL CONNECTIONS AND LEAVE IN AN APPROVED OPERATING CONDITION.
15. "MECHANICAL WORK" OR "WORK" SHALL MEAN ALL LABOR, TRANSPORTATION, MATERIAL, EQUIPMENT, SCAFFOLDING, RIGGING, TOOLS, INSTALLATION, SUPERVISION, SERVICES, AND ANY OTHER INCIDENTAL ITEMS OR SERVICES NECESSARY FOR A COMPLETE AND OPERABLE INSTALLATION.
16. INTENT
    a. IT IS THE INTENT OF THE DRAWINGS AND SPECIFICATIONS THAT ALL WORK, EQUIPMENT, APPURTENANCES, CONTROLS AND WIRING BE FURNISHED AND INSTALLED TESTED, COMPLETED AND READY FOR OPERATION.
    b. ANY INCIDENTAL ACCESSORIES NECESSARY TO MAKE THE WORK COMPLETE AND FUNCTIONAL IN ALL RESPECTS AND READY FOR OPERATION, EVEN IF NOT EXPLICITLY SPECIFIED OR SHOWN, SHALL BE PROVIDED WITHOUT ADDITIONAL EXPENSE. MINOR DETAILS NOT USUALLY SHOWN OR SPECIFIED, BUT MANIFESTLY REQUIRED FOR THE PROPER INSTALLATION AND OPERATION OF THE VARIOUS SYSTEMS, SHALL BE INCLUDED IN THE WORK, THE SAME AS IF SPECIFIED OR SHOWN ON THE DRAWINGS.
    c. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ASSURING THAT THE PROPOSED SYSTEMS CAN BE INSTALLED AS REQUIRED FROM THE DRAWINGS AND SPECIFICATIONS. IF ANY DEPARTURES FROM THE DRAWINGS AND SPECIFICATIONS ARE DEEMED NECESSARY BY THE CONTRACTOR, DETAILS OF SUCH DEPARTURES AND CLEAR JUSTIFICATION SHALL BE SUBMITTED TO THE OWNER FOR APPROVAL. NO SUCH DEPARTURES SHALL BE MADE WITHOUT THE PRIOR WRITTEN APPROVAL OF THE OWNER.
17. DRAWINGS
    a. DRAWINGS ARE DIAGRAMMATIC, SMALL SCALE AND INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED AS IT IS NOT POSSIBLE TO INDICATE ALL OFFSETS, BENDS, FITTINGS AND ACCESS PANELS REQUIRED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL SUCH APPURTENANCES AND DEVICES REQUIRED FOR A COMPLETE AND FUNCTIONAL SYSTEM WHETHER OR NOT THE APPURTENANCE OR DEVICE IS SHOWN ON THE DRAWINGS. DRAWINGS ARE NOT TO BE SCALED.
    b. CONSULT THE ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF FIXTURES AND EQUIPMENT. WHERE SAME ARE NOT DEFINITELY LOCATED, OBTAIN THIS INFORMATION FROM THE OWNER.

HVAC LEGEND

ABBREVIATIONS

A	COMPRESSED AIR PIPING
AAV	AUTOMATIC AIR VENT
AC	AIR COMPRESSOR
AD	DUCT ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
AP	ACCESS PANEL
APD	AIR PRESSURE DROP
AS	AIR SEPARATOR
ATC	AUTOMATIC TEMPERATURE CONTROLS
B	BOILER
BOD	BOTTOM OF DUCT
BOP	BOTTOM OF PIPE
BTU	BRITISH THERMAL UNIT
BTUH	BTU PER HOUR
CD	CEILING DIFFUSER
CEG	CEILING EXHAUST GRILLE
CER	CEILING EXHAUST REGISTER
CFH	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
CH	CHILLER
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CM	CONSTRUCTION MANAGER
CO	CLEAN OUT
CONT	CONTINUED
CRG	CEILING RETURN GRILLE
CRR	CEILING RETURN REGISTER
CT	COOLING TOWER
CU	CONDENSING UNIT
CUH	CABINET UNIT HEATER
CV	CONSTANT VOLUME
CWR	CONDENSER WATER RETURN
CWS	CONDENSER WATER SUPPLY
D	CONDENSATE DRAIN PIPING
DB	DRY BULB
DBA	A-WEIGHTED DECIBEL
DCW	DOMESTIC COLD WATER
DDC	DIRECT DIGITAL CONTROLS
DIA	DIAMETER
DN	DOWN
DSG	DUCT MOUNTED SUPPLY GRILLE
DTR	DUAL TEMPERATURE WATER RETURN
DTS	DUAL TEMPERATURE WATER SUPPLY
DX	DIRECT EXPANSION
(E)	EXISTING TO REMAIN
E	EXHAUST AIR
EA	EACH
EAT	ENTERING AIR TEMPERATURE
EBBC	ELECTRIC BASEBOARD CONVECTOR
EC	ELECTRICAL CONTRACTOR
EDH	ELECTRIC DUCT HEATER
EF	EXHAUST FAN
ERW	ENERGY RECOVERY WHEEL
ESP	EXTERNAL STATIC PRESSURE
ET	EXPANSION TANK
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
EWT	ENTERING WATER TEMPERATURE
EX	EXISTING
F	FURNACE/FAHRENHEIT
FA	FREE AREA/FRESH AIR
FAI	FRESH AIR INLET
FC	FLEXIBLE CONNECTION/FAN COIL
FD	FIRE DAMPER
FLEX	FLEXIBLE
FOR	FUEL OIL RETURN
FOS	FUEL OIL SUPPLY
FPC	FIRE PROTECTION CONTRACTOR
FPM	FEET PER MINUTE
FRG	FLOOR RETURN GRILLE
FRR	FLOOR RETURN REGISTER
FSG	FLOOR SUPPLY GRILLE
FSR	FLOOR SUPPLY REGISTER
FT	FOOT/FEET
FTC	FIN-TUBE CONVECTOR
G	GAS
GC	GRAVITY CONDENSATE
GD	RATED GREASE DUCT
GPM	GALLONS PER MINUTE
HP	HEAT PUMP/HORSE POWER
HPR	HIGH PRESSURE STEAM RETURN
HPS	HIGH PRESSURE STEAM SUPPLY
HWR	HEATING HOT WATER RETURN
HWS	HEATING HOT WATER SUPPLY
HX	HEAT EXCHANGER
L	REFRIGERANT LIQUID LINE/LOUVER
LAT	LEAVING AIR TEMPERATURE
LBG	LINEAR BAR GRILLE
LD	LINEAR DIFFUSER
LPR	LOW PRESSURE STEAM RETURN
LPS	LOW PRESSURE STEAM SUPPLY
LSR	LINEAR SUPPLY REGISTER
LRG	LINEAR RETURN GRILLE
LWT	LEAVING WATER TEMPERATURE
MAX	MAXIMUM
MBH	1000 BTUH
MC	MECHANICAL CONTRACTOR
MCA	MINIMUM FUSE AMPACITY
MD	MOTORIZED DAMPER
MIN	MINIMUM
MOCP	MAXIMUM OVER-CURRENT PROTECTION SIZE
MPR	MEDIUM PRESSURE STEAM RETURN
MPS	MEDIUM PRESSURE STEAM SUPPLY
MUA	MAKE-UP AIR
(N)	NEW WORK
N/A	NOT APPLICABLE
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OAI	OUTSIDE AIR INTAKE
OBD	OPPOSED BLADE DAMPER
P	PUMP
PBD	PARALLEL BLADE DAMPER
PC	PLUMBING CONTRACTOR
PD	PUMPED CONDENSATE DRAIN PIPING
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
PTAC	PACKAGED TERMINAL AIR CONDITIONER
(R)	EXISTING TO BE REMOVED
R	REFRIGERANT GAS RETURN LINE
RA	RETURN AIR
RH	RELATIVE HUMIDITY
(RL)	EXISTING TO BE RELOCATED
RPM	REVOLUTIONS PER MINUTE
RTU	ROOF TOP UNIT
s=02'	SLOPE
S	SANITARY/SLOPE
SA	SUPPLY AIR
SD	SPLITTER DAMPER
SF	SQUARE FEET
ST	SOUND TRAP/SILENCER
TAB	TESTING, ADJUSTING & BALANCING
TAG	TRANSFER AIR GRILLE
TDH	TOTAL DEVELOPED HEAD(DYNAMIC)
TF	TRANSFER FAN
TOD	TOP OF DUCT
TR	TRANSITION
TSP	TOTAL STATIC PRESSURE
TYP	TYPICAL
UH	UNIT HEATER
U.N.O.	UNLESS NOTED OTHERWISE
VAV	VARIABLE AIR VOLUME
VD	VOLUME DAMPER
VFD	VARIABLE FREQUENCY DRIVE
VIF	VERIFY IN FIELD
WB	WET BULB
WEG	WALL EXHAUST GRILLE
WER	WALL EXHAUST REGISTER
WPD	WATER PRESSURE DROP
WRG	WALL RETURN GRILLE
WRR	WALL RETURN REGISTER
WSG	WALL SUPPLY GRILLE
WSHP	WATER SOURCE HEAT PUMP
WSR	WALL SUPPLY REGISTER
WMS	WIRE MESH SCREEN

EQUIPMENT TAG
X — EQUIPMENT TYPE DESIGNATOR
X — EQUIPMENT NUMBER

SECTION MARKER
X — SECTION NUMBER
XX.X — SHEET NUMBER

HVAC WATER RISER LOCATION
X — RISER TYPE
XX — RISER NUMBER

SYMBOLS

- EXISTING TO REMAIN
- EXISTING TO BE REMOVED
- NEW WORK
- ϕ DIAMETER
- FA FIRE DAMPER WITH ACCESS PANEL
- FS FIRE AND SMOKE DAMPER W/ ACCESS PANEL
- S SMOKE DETECTOR
- CONNECT NEW TO EXISTING
- CUT AND CAP
- (E) EXISTING TO REMAIN
- (R) EXISTING TO BE REMOVED
- (RL) EXISTING TO BE RELOCATED
- H HUMIDISTAT
- S SENSOR
- T THERMOSTAT
- M MOTORIZED
- PIPE UP
- PIPE DOWN
- PIPE DROP
- UNION
- AIR VENT
- CAP
- PRESSURE RELIEF VALVE
- TWO-WAY CONTROL VALVE
- THREE-WAY CONTROL VALVE
- BALL-TYPE SHUTOFF VALVE
- B BUTTERFLY VALVE
- CALIBRATED BALANCING VALVE
- GATE VALVE
- CHECK VALVE
- DOUBLE CHECK VALVE
- REDUCED PRESSURE BACKFLOW PREVENTION
- VERTICAL VALVE
- STRAINER
- THERMOMETER
- PRESSURE GAGE W/ BALL VALVE
- RETURN, EXHAUST, MAKEUP OR OUTSIDE AIR INTAKE
- SIDEWALL GRILLE
- RETURN, EXHAUST, MAKEUP OR OUTSIDE AIR GRILLE OR REGISTER
- SUPPLY AIR 4-WAY DIFFUSER, GRILLE OR REGISTER
- FLEX DUCT
- VD VOLUME DAMPER
- X UNDERCUT DOOR OR LOUVERED DOOR
- NATURAL GAS COCK

DRAWING SCHEDULE

DRAWING NUMBER	DRAWING TITLE	ISSUE: 100% CDs
		DATE: 09/16/2022
H-0	HVAC COVER SHEET	●
H-1	HVAC DEMOLITION PLAN - GROUND FLOOR	●
H-2	HVAC DEMOLITION PLAN - ROOF	●
H-3	HVAC NEW WORK PLAN - GROUND FLOOR	●
H-4	HVAC NEW WORK PLAN - ROOF	●
H-7	HVAC SCHEDULES	●
H-9	HVAC DETAILS	●

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SEAL:

NO.	REVISION	DATE

SHEET NAME:
HVAC
COVER SHEET

DATE:
09/16/2022
CONSTRUCTION DOCUMENTS

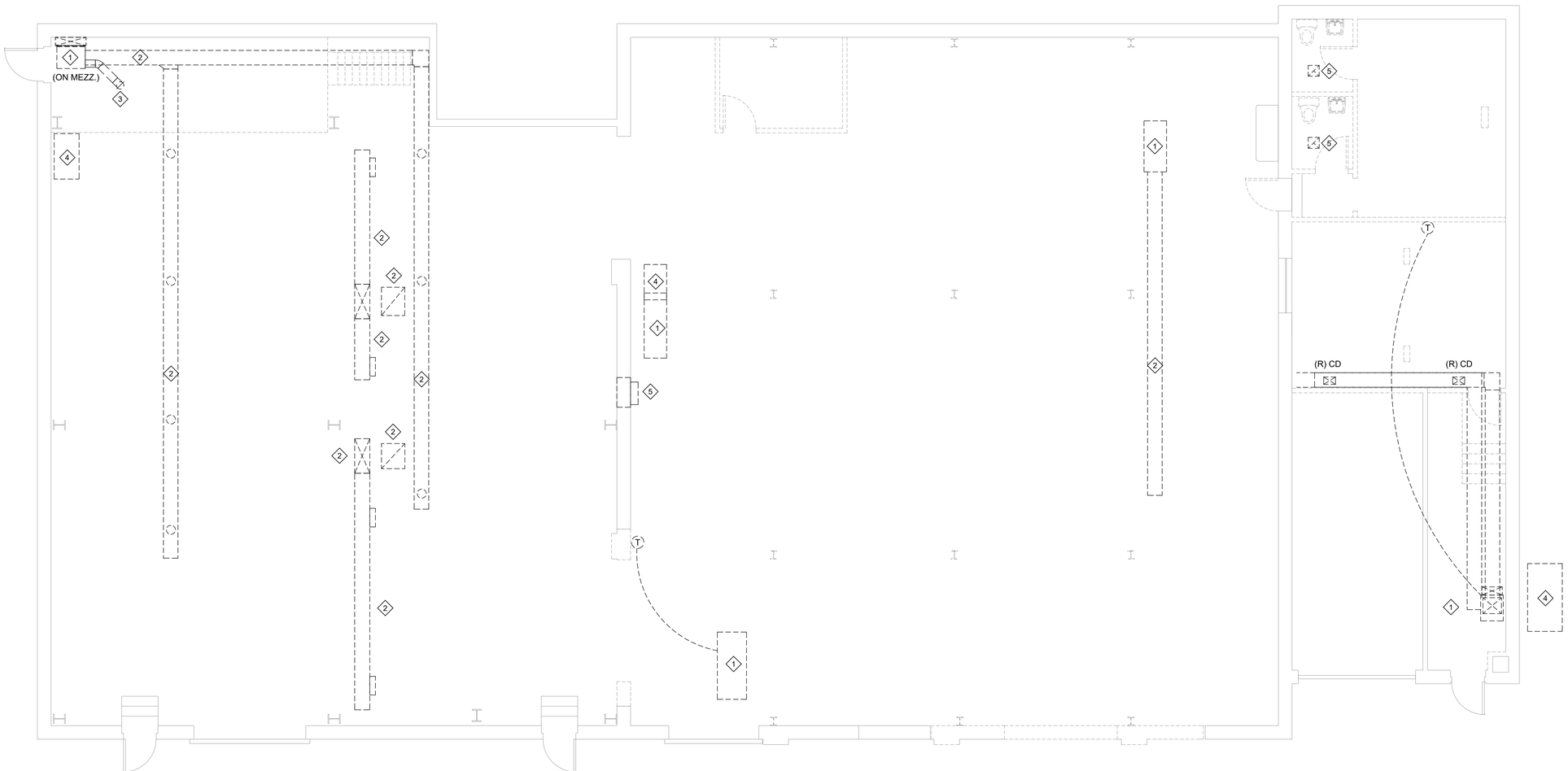
H-0

GENERAL DEMOLITION NOTES

1. ALL COMPONENTS SHOWN TO BE DEMOLISHED SHALL BE COMPLETELY REMOVED FROM THE BUILDING IN ITS ENTIRETY AND DISPOSED OF BY THE CONTRACTOR.
2. ALL EXISTING HVAC SYSTEMS TO BE REMOVED IN THEIR ENTIRETY UNLESS NOTED OTHERWISE.

KEYED DEMOLITION NOTES

1. REMOVE AHU AND ALL ASSOCIATED DUCTWORK, PIPING, GRDs, AND CONTROLS IN THEIR ENTIRETY.
2. REMOVE DUCTWORK AND ALL ASSOCIATED GRDs IN ITS ENTIRETY.
3. REMOVE FURNACE FLUE IN ITS ENTIRETY.
4. REMOVE OIL TANK AND ALL ASSOCIATED PIPING IN ITS ENTIRETY.
5. REMOVE EXHAUST FAN AND ALL ASSOCIATED DUCTWORK IN ITS ENTIRETY.
6. REMOVE CONDENSING UNIT ON ROOF AND ALL ASSOCIATED REFRIGERANT PIPING IN ITS ENTIRETY.



1 H-1 HVAC DEMOLITION PLAN - GROUND FLOOR
SCALE: 3/16" = 1' - 0"

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SEAL:

NO.	REVISION	DATE

SHEET NAME:
HVAC DEMOLITION PLAN - GROUND FLOOR

DATE:
09/16/2022
CONSTRUCTION DOCUMENTS

H-1

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2. ALL EXISTING HVAC SYSTEMS TO BE REMOVED IN THEIR ENTIRETY UNLESS NOTED OTHERWISE.

KEYED DEMOLITION NOTES

1. REMOVE AHU AND ALL ASSOCIATED DUCTWORK, PIPING, GRDs, AND CONTROLS IN THEIR ENTIRETY.
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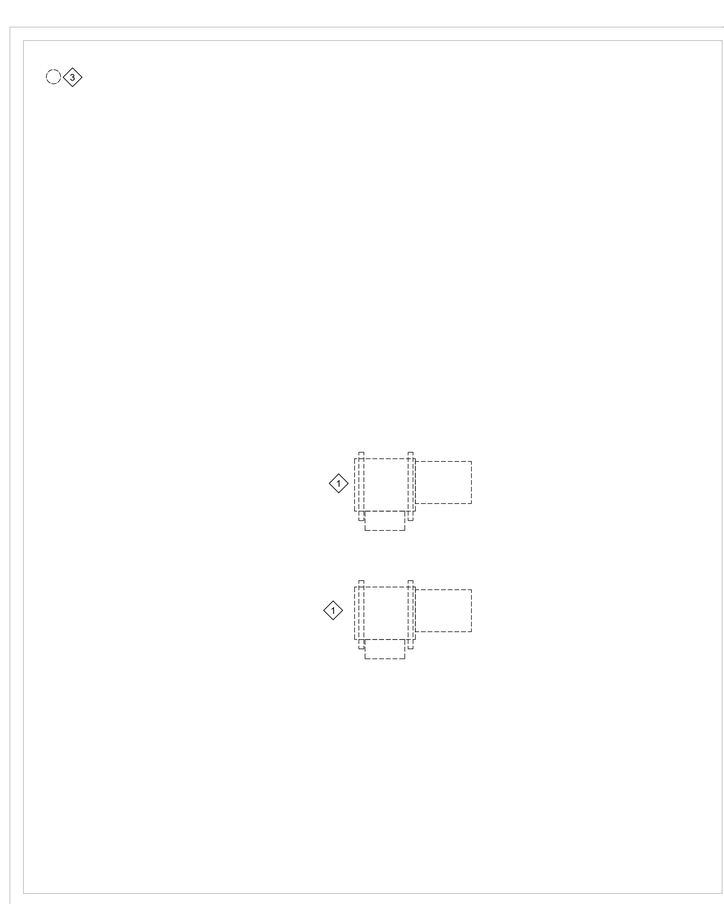
6. REMOVE CONDENSING UNIT ON ROOF AND ALL ASSOCIATED REFRIGERANT PIPING IN ITS ENTIRETY.



1 H-2 HVAC DEMOLITION PLAN - ROOF
SCALE: 3/16" = 1' - 0"

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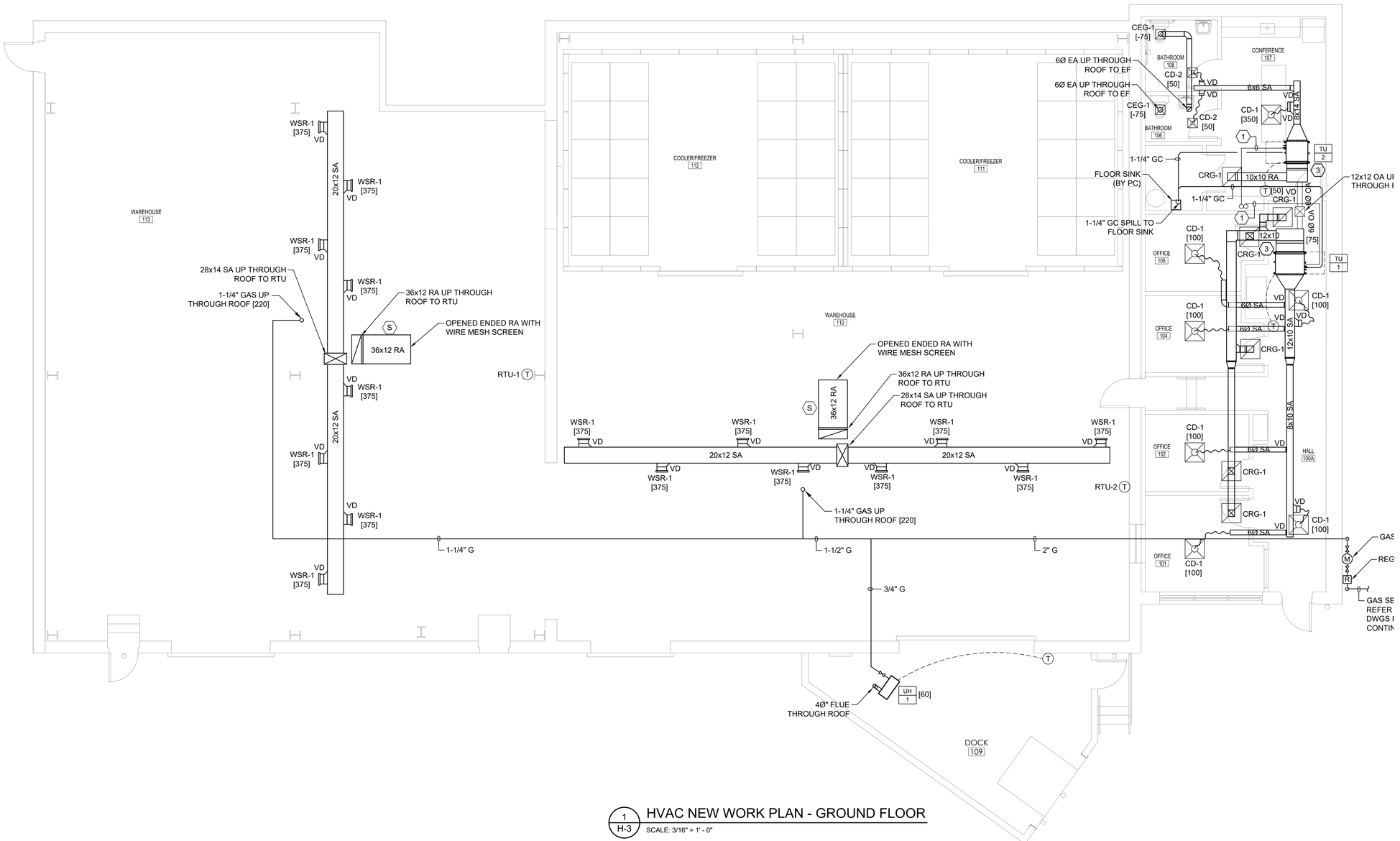
SEAL:

NO.	REVISION	DATE

SHEET NAME:
HVAC DEMOLITION PLAN - ROOF

DATE:
09/16/2022
CONSTRUCTION DOCUMENTS

H-2



1 H-3 HVAC NEW WORK PLAN - GROUND FLOOR

SCALE: 3/16" = 1' - 0"

GENERAL NEW WORK NOTES

1. ALL CONCEALED DUCTWORK SHALL BE INSULATED.
2. ALL PIPING SHALL BE INSULATED.
3. ALL AIR DEVICES SHALL BE BALANCED TO THE CFM VALUE (SHOWN AS [XXX]) ON THE FLOOR PLANS. SUBMIT BALANCING REPORT TO ARCHITECT/ENGINEER. BALANCING WORK SHALL CONFORM TO REQUIREMENTS OF AABC OR NEBB.
4. ALL NEW EQUIPMENT, PIPING, AND DUCTWORK SHALL BE INSTALLED AS TIGHT TO THE STRUCTURE AS POSSIBLE FOR MAXIMUM CEILING HEIGHTS.
5. COORDINATE DIFFUSER AND GRILLES LOCATION WITH ALL OTHER CEILING COMPONENTS.
6. PROVIDE ALL VOLUME DAMPERS REQUIRED TO BALANCE THE SYSTEMS. INSTALL VOLUME DAMPERS AT ALL BRANCH TAKE OFFS FROM TRUNK DUCTS.

VRF SYSTEM NOTES:

1. EACH INDOOR VRF UNIT SHALL HAVE A WIRED WALL MOUNTED DIGITAL 7-DAY PROGRAMMABLE THERMOSTAT, MOUNTED AT 48" A.F.F. TO COMPLY WITH ADA REQUIREMENTS.
2. EACH INDOOR UNIT WILL HAVE AN 1-1/4" GRAVITY CONDENSATE DRAIN RUN, BY GRAVITY WHERE POSSIBLE, TO THE SANITARY SYSTEM. REFER TO DRAWINGS FOR ROUTING. THE DUCTED TERMINAL UNITS HAVE AN INTEGRAL PUMP CAPABLE OF PRODUCING 24" OF LIFT.
3. VRF REFRIGERANT PIPING SHALL BE BRAZED, ACR SOFT COPPER. LINESETS SHALL BE INSULATED ISOCLIMA (WITH RIP-PROOF JACKET) OR EQUIVALENT.
4. EACH DUCTED TERMINAL UNIT SHALL BE EQUIPPED WITH A FIELD FABRICATED FILTER RACK, ACCESSIBLE FROM BOTH THE BOTTOM AND SIDE.
5. REFRIGERANT LINE SETS SHALL BE SIZED PER RISER DIAGRAM DRAWINGS 6/H-9.
6. THE TEMPERATURE CONTROL DIP SWITCH ON EACH TERMINAL UNIT SHALL BE SET TO FOLLOW THE THERMOSTAT. THE OUT OF BOX SETTING IS SET TO FOLLOW THE RETURN AIR SENSOR.
7. TERMINAL UNITS WITH DUCTED OUTSIDE AIR SHALL HAVE THE AIRFLOW DIPSWITCH SET TO CONSTANT. ALL OTHER TERMINAL UNITS AIRFLOW DIPSWITCH SHALL BE SET TO ACTIVATE WHEN HEATING OR COOLING IS CALLED FOR.
8. CUs SHALL BE INSTALLED A MINIMUM 18" ABOVE ROOF.

GAS PIPING NOTES

1. ALL ABOVE GRADE GAS PIPING SHALL BE BLACK STEEL.
2. ALL BELOW GRADE GAS PIPING SHALL BE BLACK STEEL EXTERIOR (BASIS OF DESIGN) OR TRACPIPE PS-II FLEXIBLE GAS PIPING (ACCEPTABLE ALTERNATE). BELOW GRADE GAS PIPING SHALL HAVE A PROTECTED COATING IN ACCORDANCE WITH IFGC SECTION 403.8.
3. LOW PRESSURE GAS PIPE SIZE BASED ON GAS PRESSURE LESS THAN 2 PSI W/ A PRESSURE DROP OF 0.5" AND 0.60 SPECIFIC GRAVITY.
4. PROVIDE SHUT OFF VALVE, UNION REDUCER(S), DIRT LEG AND ALL FITTINGS REQUIRED AT EACH UNIT. ALL CONNECTIONS SHALL BE FULL SIZE OF EQUIPMENT.
5. GAS PIPING MATERIALS & INSTALLATION TO BE PER INTERNATIONAL FUEL & GAS CODE AND UTILITY REQUIREMENTS.

KEYED NEW WORK NOTES

1. INSULATED REFRIGERANT LINE SET FROM CU TO TU. SIZED PER VRF SCHEMATIC ON DRAWING 6/H-9.
2. VAULT ROOF PENETRATION HOUSING, LLC ROOF VAULT AW SERIES (OR EQUIVALENT) FOR REFRIGERANT PIPING ROOF PENETRATION.
3. FIELD FABRICATED RETURN AIR BOX WITH SIDE AND BOTTOM PULL FILTER ACCESS. SIZE OF RA TO MATCH RA DUCT CONNECTION ON TERMINAL UNIT.

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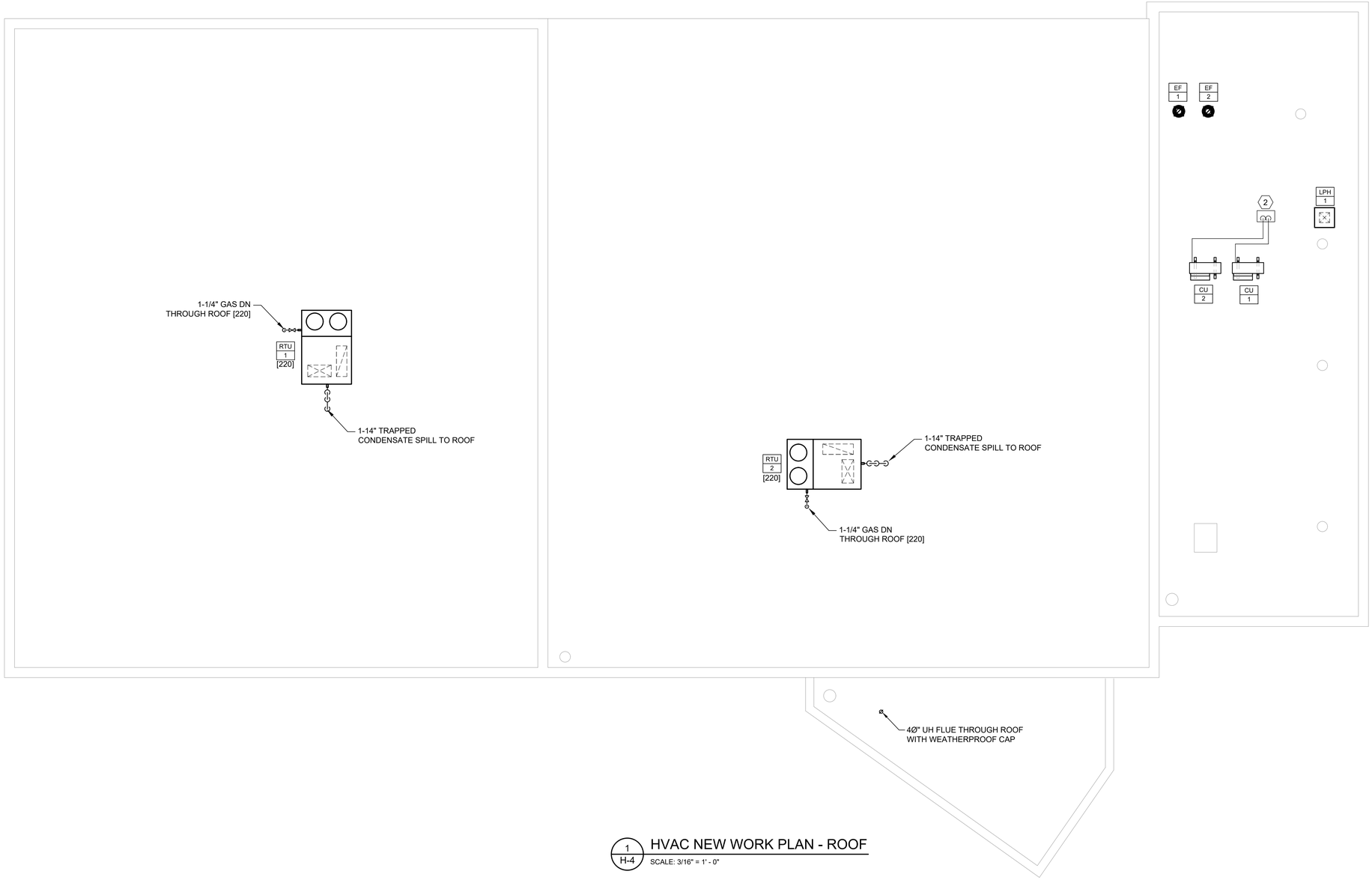
SEAL:

NO.	REVISION	DATE

SHEET NAME:
HVAC NEW WORK PLAN - GROUND FLOOR

DATE:
09/16/2022
CONSTRUCTION DOCUMENTS

H-3



1 H-4 HVAC NEW WORK PLAN - ROOF
SCALE: 3/16" = 1' - 0"

GENERAL NEW WORK NOTES

1. ALL CONCEALED DUCTWORK SHALL BE INSULATED.
2. ALL PIPING SHALL BE INSULATED.
3. ALL AIR DEVICES SHALL BE BALANCED TO THE CFM VALUE (SHOWN AS [XXX]) ON THE FLOOR PLANS. SUBMIT BALANCING REPORT TO ARCHITECT/ENGINEER. BALANCING WORK SHALL CONFORM TO REQUIREMENTS OF AABC OR NEBB.
4. ALL NEW EQUIPMENT, PIPING, AND DUCTWORK SHALL BE INSTALLED AS TIGHT TO THE STRUCTURE AS POSSIBLE FOR MAXIMUM CEILING HEIGHTS.
5. COORDINATE DIFFUSER AND GRILLES LOCATION WITH ALL OTHER CEILING COMPONENTS.
6. PROVIDE ALL VOLUME DAMPERS REQUIRED TO BALANCE THE SYSTEMS. INSTALL VOLUME DAMPERS AT ALL BRANCH TAKE OFFS FROM TRUNK DUCTS.

VRF SYSTEM NOTES:

1. EACH INDOOR VRF UNIT SHALL HAVE A WIRED WALL MOUNTED DIGITAL 7-DAY PROGRAMMABLE THERMOSTAT, MOUNTED AT 48" A.F.F. TO COMPLY WITH ADA REQUIREMENTS.
2. EACH INDOOR UNIT WILL HAVE AN 1-1/4" GRAVITY CONDENSATE DRAIN RUN, BY GRAVITY WHERE POSSIBLE, TO THE SANITARY SYSTEM. REFER TO DRAWINGS FOR ROUTING. THE DUCTED TERMINAL UNITS HAVE AN INTEGRAL PUMP CAPABLE OF PRODUCING 24" OF LIFT.
3. VRF REFRIGERANT PIPING SHALL BE BRAZED, ACR SOFT COPPER. LINESETS SHALL BE INSULATED ISOCLIMA (WITH RIP-PROOF JACKET) OR EQUIVALENT.
4. EACH DUCTED TERMINAL UNIT SHALL BE EQUIPPED WITH A FIELD FABRICATED FILTER RACK, ACCESSIBLE FROM BOTH THE BOTTOM AND SIDE.
5. REFRIGERANT LINE SETS SHALL BE SIZED PER RISER DIAGRAM DRAWINGS 6/H-9.
6. THE TEMPERATURE CONTROL DIP SWITCH ON EACH TERMINAL UNIT SHALL BE SET TO FOLLOW THE THERMOSTAT. THE OUT OF BOX SETTING IS SET TO FOLLOW THE RETURN AIR SENSOR.
7. TERMINAL UNITS WITH DUCTED OUTSIDE AIR SHALL HAVE THE AIRFLOW DIPSWITCH SET TO CONSTANT. ALL OTHER TERMINAL UNITS AIRFLOW DIPSWITCH SHALL BE SET TO ACTIVATE WHEN HEATING OR COOLING IS CALLED FOR.
8. CUs SHALL BE INSTALLED A MINIMUM 18" ABOVE ROOF.

GAS PIPING NOTES

1. ALL ABOVE GRADE GAS PIPING SHALL BE BLACK STEEL.
2. ALL BELOW GRADE GAS PIPING SHALL BE BLACK STEEL EXTERIOR (BASIS OF DESIGN) OR TRACPIPE PS-II FLEXIBLE GAS PIPING (ACCEPTABLE ALTERNATE). BELOW GRADE GAS PIPING SHALL HAVE A PROTECTED COATING IN ACCORDANCE WITH IFGC SECTION 403.8.
3. LOW PRESSURE GAS PIPE SIZE BASED ON GAS PRESSURE LESS THAN 2 PSI W/ A PRESSURE DROP OF 0.5" AND 0.60 SPECIFIC GRAVITY.
4. PROVIDE SHUT OFF VALVE, UNION REDUCER(S), DIRT LEG AND ALL FITTINGS REQUIRED AT EACH UNIT. ALL CONNECTIONS SHALL BE FULL SIZE OF EQUIPMENT.
5. GAS PIPING MATERIALS & INSTALLATION TO BE PER INTERNATIONAL FUEL & GAS CODE AND UTILITY REQUIREMENTS.

KEYED NEW WORK NOTES

1. INSULATED REFRIGERANT LINE SET FROM CU TO TU. SIZED PER VRF SCHEMATIC ON DRAWING 6/H-9.
2. VAULT ROOF PENETRATION HOUSING, LLC ROOF VAULT AW SERIES (OR EQUIVALENT) FOR REFRIGERANT PIPING ROOF PENETRATION.
3. FIELD FABRICATED RETURN AIR BOX WITH SIDE AND BOTTOM PULL FILTER ACCESS. SIZE OF RA TO MATCH RA DUCT CONNECTION ON TERMINAL UNIT.

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HVAC NEW WORK PLAN - ROOF

DATE:
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UNIT HEATER SCHEDULE

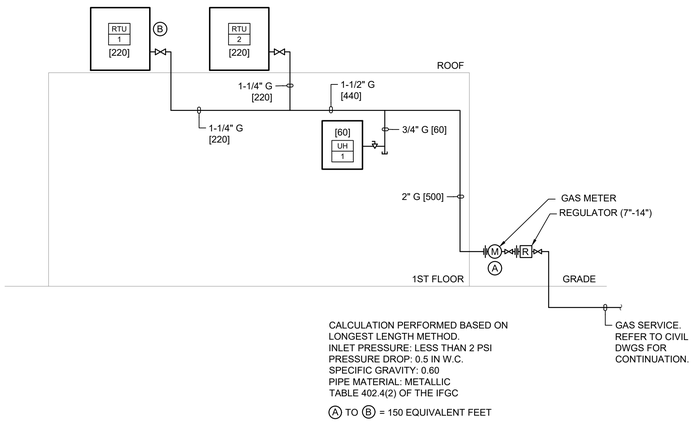
SYMBOL	LOCATION	DISCHARGE TYPE	FAN	GAS HEATER				ELECTRICAL			BASIS MANUFACTURER	
			CFM	OUTPUT MBH	INPUT MBH	EAT	LAT	FLA	MOCP	V/PH/HZ	NAME	MODEL NO
UH-1	LOADING DOCK	HORIZONTAL	960	50	60	55	95	1	15	120/1/60	MARKEL	UDAS 60

NOTES: 1. PROVIDE 4" FLUE AND COMBUSTION AIR INLET AND CONCENTRIC VENT FITTING
2. PROVIDE WALL MOUNTED THERMOSTAT WITH LOCKABLE COVER
3. PROVIDE CEILING SUSPENSION KIT

TAKEOFF/FLEX DUCT SCHEDULE

DUCT SIZE (IN)	CFM RANGE	MAX PD (IN WC/100 LF)	MAX VELOCITY (FPM)
4 ø	0-49	0.25	600
6 ø	50-99	0.15	500
8 ø	100-199	0.15	600
10 ø	200-299	0.08	600
12 ø	300-399	0.05	500
14 ø	400-549	0.05	500
16 ø	550-800	0.05	600

NOTES: 1. FOR USE WHERE TAKEOFF/FLEX DUCT IS NOT INDICATED ON FLOOR PLAN
2. USE ONLY ON SUPPLY AIR SYSTEMS.
3. MAXIMUM LENGTH SHALL BE 8'-0".
4. FLEX DUCT SHALL BE DRAWN TIGHT
5. USE SHEETMETAL ELBOWS AT TURNS.



1 / H7 GAS RISER DIAGRAM

SCALE: NONE

ROOFTOP UNIT SCHEDULE

SYMBOL	LOCATION	SERVICE	TOTAL TONNAGE	TOTAL CFM	OCCUPIED OA CFM		ESP (IN WC)	DX COOLING						INDIRECT GAS-FIRED HEATING				ELECTRICAL			WEIGHT (LBS)	BASIS MANUFACTURER	
					MIN	MAX		REQ'D MIN NET CAP (MBH)		EAT (°F)		LAT (°F)		INPUT (MBH)	OUTPUT (MBH)	EAT	LAT	V/PH/HZ	MCA	MOCP		NAME	MODEL NO
								TOTAL	SENS	DB	WB	DB	WB										
RTU-1	ROOF	WAREHOUSE 113	7.5	3000	240	240	1	90	78	80	67	57	56	220	180	60	100	208/3/60	42	50	1371	TRANE	GBC090A3EHA**09M
RTU-2	ROOF	WAREHOUSE 110	7.5	3000	285	285	1	90	78	80	67	57	56	220	180	60	100	208/3/60	42	50	1371	TRANE	GBC090A3EHA**09M

NOTES 1. SINGLE POINT POWER CONNECTION
2. PROVIDE DRY BULB ECONOMIZER CONTROLS
3. PROVID DIGITAL, PROGRAMMABLE, THERMOSTAT
4. PROVIDE MANUFACTURERS ROOF CURB.
5. PROVIDE FREASH AIR HOOD

MITSUBISHI ELECTRIC TRANE HVAC US: CITY MULTI VRF INDOOR UNIT SCHEDULE

Tag Reference	Model	Type	Nominal Cooling Capacity (BTU/h)	Nominal Heating Capacity (BTU/h)	Cooling Design Entering Temp DB/WB (°F)	Heating Design Entering Temp DB/WB (°F)	Estimated Cooling Coil LAT (°F)	Estimated Heating Coil LAT (°F)	Refrig Pipe Dim Liquid/Suction (inch)	Peak Fan Airflow (cfm)	Max Fan ESP Setting 208V/230V (IN WG)	Voltage / Phase
TU-1	PEAD-A18AA7	Ceiling-Concealed (Ducted)	18,000.0	21,600.0	80.0/67.0	70.0	57.8	102.4	1/2 / 1/4	600	0.14/0.20/0.28/0.40/0.60	208/230V/1-phase
TU-2	PEAD-A12AA7	Ceiling-Concealed (Ducted)	12,000.0	15,000.0	80.0/67.0	70.0	59.2	97.6	3/8 / 1/4	494	0.14/0.20/0.28/0.40/0.60	208/230V/1-phase

MITSUBISHI ELECTRIC TRANE HVAC US: CITY MULTI VRF OUTDOOR UNIT SCHEDULE

Tag Reference	Model Number	Nominal Cooling Capacity (BTU/h)	Nominal Heating Capacity (BTU/h)	Cooling Efficiency IEER/EER [SEER]	Design Cooling Outdoor Temp DB (°F)	Design Heating Outdoor Temp WB (°F)	Corrected Cooling Total Capacity (BTU/h)	Corrected Heating Capacity (BTU/h)	Electrical-Per Module			
									Voltage / Phase	MCA	RFS	MOCP
CU-1	SUZ-KA18NAHZ.TH	16,800.0	21,600.0	0 [18.90]	93.0	8.9	17,166.5	20,991.3	208/230V / 1-phase	17	20	31
CU-2	SUZ-KA12NAHZ.TH	12,000.0	15,000.0	0 [19.30]	93.0	8.9	12,112.1	14,705.0	208/230V / 1-phase	14	15	24

AIR DEVICE SCHEDULE

DESIGNATION	MATERIAL	FINISH	FACE/SLOTS/ SPACING	SIZE	BORDER	BASIS	REMARKS
CD-1	STEEL	WHITE BAKED ENAMEL	18x18 CORE LOUVERED FACE	24x24	ACT, LAY-IN	PRICE SMD	REMOVABLE CORE, SQUARE TO ROUND ADAPTER WHERE REQ'D. OPPOSED BLADE DAMPER WITH LEVER OPERATOR.
CD-2	STEEL	WHITE BAKED ENAMEL	18x18 CORE LOUVERED FACE	12x12	ACT, LAY-IN	PRICE SMD	REMOVABLE CORE, SQUARE TO ROUND ADAPTER WHERE REQ'D. OPPOSED BLADE DAMPER WITH LEVER OPERATOR.
CRG-1	STEEL	WHITE BAKED ENAMEL	35 FIXED DEGREE BARS 23-3/4"x23x3/4" FACE	24x24	1-1/4" BORDER	PRICE 530	-
CEG-1	ALUMINUM	WHITE BAKED ENAMEL	35 FIXED DEGREE HORIZONTAL BARS	12x12	1-1/4" BORDER	PRICE 630	-

NOTES: REFER TO FLOOR PLANS FOR BALANCING CFM FOR EACH DEVICE.

EXHAUST FAN SCHEDULE

SYMBOL	SERVICE	CFM	CONTROL	DRIVE	ESP	MOTOR HP	V/PH/HZ	BASIS MANUFACTURER		NOTES
								NAME	MODEL	
EF-1	RESTROOM 106	75	OCCUPANCY SENSOR	DIRECT	0.4	1/10	120/1/60	GREENHECK	G-097-VG	PROVIDE MANUFACTURERS ROOF CURB
EF-2	RESTROOM 108	75	OCCUPANCY SENSOR	DIRECT	0.4	1/10	120/1/60	GREENHECK	G-097-VG	PROVIDE MANUFACTURERS ROOF CURB

VENTILATION SCHEDULE

NAME	ROOM TYPE BASED ON TABLE 6-1 OR NORMATIVE APPENDIX E FOR VENTILATION RATES	AREA, Az (ft²)	NO. OF OCCUPANTS [Pz]	ASHRAE 62.1-2004 CALCULATIONS						
				OUTSIDEVENTILATION REQUIREMENTS (REFER TO TABLE 6-1 OR NORMATIVE APPENDIX E)						
				BASED ON AREA		BASED ON OCCUPANTS		BREATHING ZONE OA PER ZONE (CFM) [Vbz]	ZONE AIR DISTRIBUTION EFFECTIVENESS [Ez] (REFER TO TABLE 6-2)	ZONE OA AIRFLOW (CFM) [Voz]
				REQUIRED OA AIRFLOW (CFM/ft²) [Ra]	RESULTANT AREA OA (CFM) [Az * Ra]	REQUIRED OA PER PERSON (CFM/P) [Rp]	RESULTANT OCCUPANT OA (CFM) [Pz*Rp]			
Warehouse 113	Warehouses	3182	12	0.06	190.9	-	0	190.9	0.8	238.7
Warehouse 110	Warehouses	3787	12	0.06	227.2	-	0	227.2	0.8	284.0
Conference 107	Conference/meeting	223	5	0.06	13.4	5	25	38.4	0.8	48.0
Office 101	Office Space	115	1	0.06	6.9	5	5	11.9	0.8	14.9
Office 102	Office Space	87	1	0.06	5.2	5	5	10.2	0.8	12.8
Office 104	Office Space	91	1	0.06	5.5	5	5	10.5	0.8	13.1
Office 105	Office Space	91	1	0.06	5.5	5	5	10.5	0.8	13.1
Hall 100A	Corridors	300	0	0.06	18.0		0	18.0	0.8	22.5
SYSTEM TOTALS		7876	33		472.6		45	517.6		647.0
	Number of Occupants		33							
								TOTAL OA FLOW =		**650.0**

DUCT SCHEDULE

SYSTEM	DUCT MATERIAL	PRESSURE CLASS	MINIMUM SMACNA SEAL CLASS	SMACNA LEAKAGE CLASS	INSULATION TYPE
SUPPLY DUCTS	26 GAUGE GALVANIZED SHEET STEEL	POSITIVE 1" W.G.	A	12	MINERAL FIBER BLANKET 1-1/2" THICK, 0.75-LB/CU.FT. NOMINAL DENSITY, MIN. R=6.
RETURN DUCTS	26 GAUGE GALVANIZED SHEET STEEL	NEGATIVE 2" W.G.	A	6	MINERAL FIBER BLANKET 1-1/2" THICK, 0.75-LB/CU.FT. NOMINAL DENSITY, MIN. R=6.
GENERAL EXHAUST DUCTS	26 GAUGE GALVANIZED SHEET STEEL	NEGATIVE 2" W.G.	A	12	NONE
OUTSIDE AIR DUCTS	26 GAUGE GALVANIZED SHEET STEEL	POSITIVE 2" W.G.	A	12	MINERAL FIBER BLANKET 1-1/2" THICK, 0.75-LB/CU.FT. NOMINAL DENSITY, MIN. R=6.

PIPE & FITTING SCHEDULE

SYSTEM	PIPE SIZE	LOCATION	MATERIAL	SCHEDULE OR TYPE	FITTING	JOINT	REMARKS
NATURAL GAS	ALL	ABOVE GRADE/GROUND	BLACK STEEL	40	BLACK STEEL	LESS THAN 2" - THREADED 2" OR GREATER - WELDED	IN ACCORDANCE WITH NFPA 54

LOUVERED PENTHOUSE SCHEDULE

SYMBOL	SERVICE	CFM	THROAT SIZE (W IN x L IN x H IN)	FREE AREA (SQFT)	BASIS MANUFACTURER	
					NAME	MODEL NO
LPH-1	OUTDOOR AIR INTAKE	125	12x12x12	2.31	GREENHECK	WH

NOTES: 1. PROVIDE BIRD SCREEN
2. PROVIDE 12" ROOF CURB, MODEL GPI

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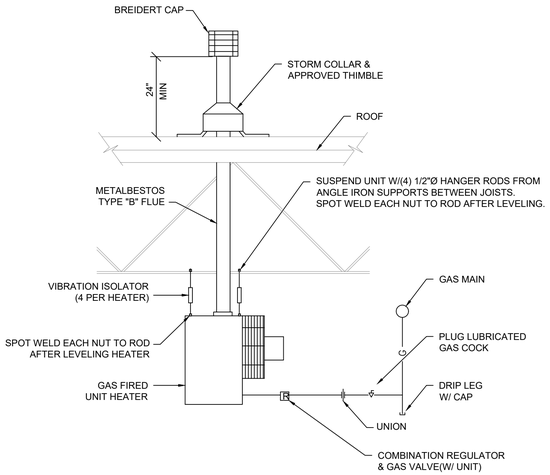
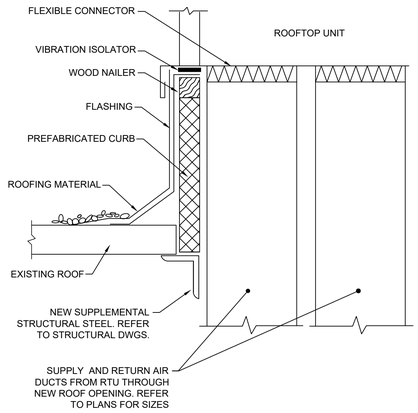


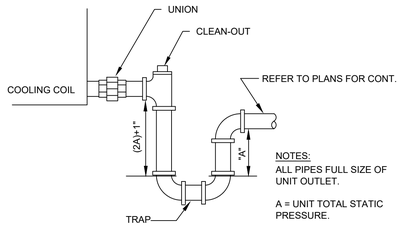
4 H-9 GAS UNIT HEATER DETAIL

SCALE: NONE



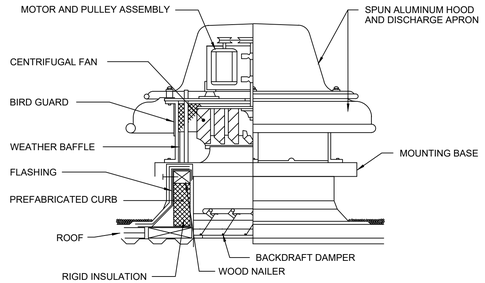
3 H-9 RTU CURB DETAIL

SCALE: NONE



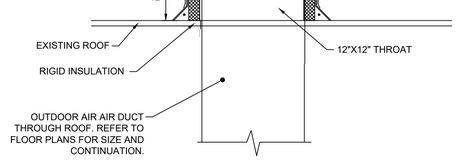
2 H-9 CONDENSATE DRAIN DETAIL

SCALE: NONE



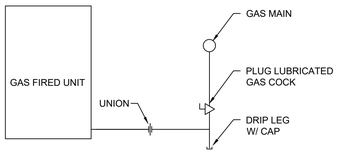
1 H-9 ROOFTOP FAN AND CURB DETAIL

SCALE: NONE



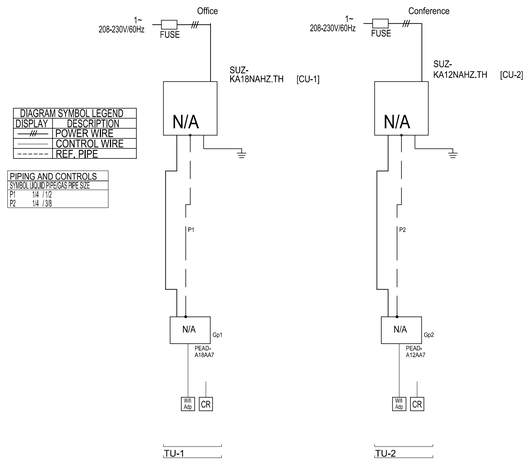
7 H-9 PENTHOUSE LOUVER DETAIL

SCALE: NTS



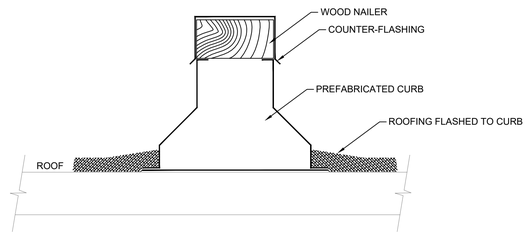
5 H-9 GAS CONNECTION DETAIL

SCALE: NONE



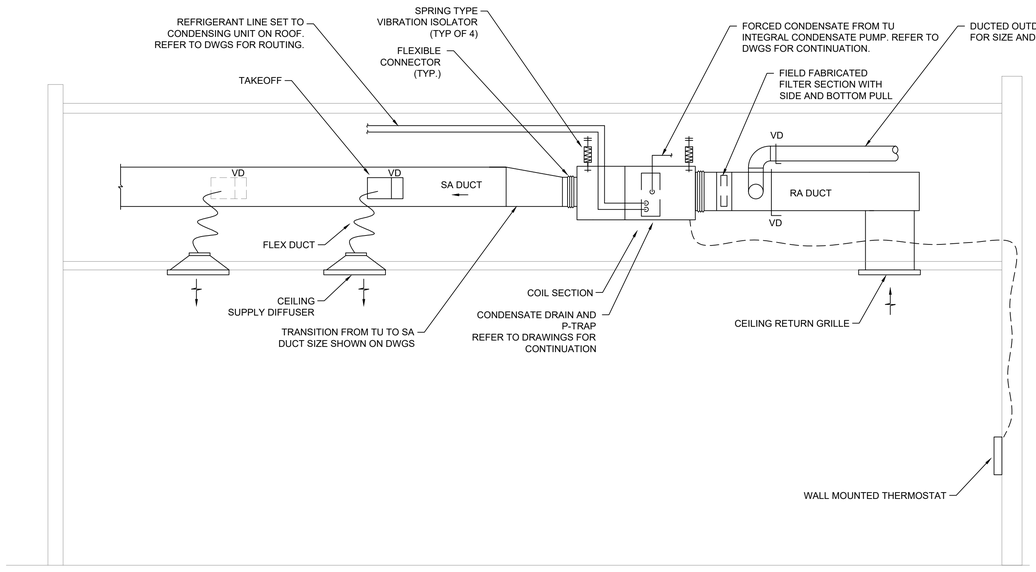
6 H-9 MINI-SPLIT SCHEMATIC

SCALE: NONE



10 H-9 ROOF MOUNTED EQUIPMENT SUPPORT

SCALE: NONE



8 H-9 INDOOR DUCTED VRF UNIT SCHEMATIC

SCALE: NONE

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I GENERAL REQUIREMENTS

A. SCOPE OF WORK
1. Furnish all labor, materials and equipment as required for new electrical work including, but not limited to, what is shown on Drawings and described below:
   a. Power Distribution System
   b. Lighting
   c. Fire Alarm
   d. Telecommunications
   e. Temporary power required during construction
2. Before ordering any material or doing any work, the Electrical Contractor shall check and verify all measurements, including lines, grades, pipe and duct elevations at the building and shall be responsible for the correctness of same.

B. TERMINOLOGY
1. "Provide" shall mean furnish and install, make all final connections and leave in an approved operating condition.
2. "Electrical work" or "work" shall mean all labor, transportation, material, equipment, scaffolding, rigging, tools, installation, supervision, services, and any other incidental items or services necessary for a complete and operable installation.
3. "Wiring" shall include the conductor, raceways, and connections to the equipment, apparatus, outlets and other specialties.
4. "Wire" and "cable" shall mean insulated conductor.

C. INTENT
1. It is the intent of the drawings and specifications that all work, equipment, appurtenances, controls and wiring be furnished and installed tested, completed and ready for operation.
2. Any incidental accessories necessary to make the work complete and functional in all respects and ready for operation, even if not explicitly specified or shown, shall be provided without additional expense. Minor details not usually shown or specified, but manifestly required for the proper installation and operation of the various systems, shall be included in the work, the same as if specified or shown on the drawings.
3. The Contractor shall be responsible for assuring that the proposed systems can be installed as required from the drawings and specifications. If any departures from the drawings and specifications are deemed necessary by the Contractor, details of such departures and clear justification shall be submitted to the Architect for approval. No such departures shall be made without the prior written approval of the Architect.
4. Shop drawings and samples: The Contractor is responsible for the verification of all quantities and all dimensions. The Contractor is responsible for field verification of existing conditions. Where shop drawings are approved, the approval is general conformance with the contract documents and does not in any way relieve the Contractor from their responsibility, or necessity of providing the work as required by the contract documents.

D. DRAWINGS
1. The drawings accompanying this specification form a part of the Contract Documents upon which the work shall be based.
2. Drawings are diagrammatic, small scale and indicate the general arrangement of systems and work included as it is not possible to indicate all offsets, bends, fittings and access panels required. The Contractor shall be responsible for providing all such appurtenances and devices required for a complete and functional system whether or not the appurtenance or device is shown on the drawings. Drawings are not to be scaled.
3. Consult the architectural and mechanical drawings for exact location of fixtures and equipment. Where same are not definitely located, obtain this information from the Architect.

E. SUBMITTALS
1. Contractor shall submit three (3) sets of product data and shop drawings, or electronic equivalent, to the Engineer for approval prior to starting any work. Provide the following submittals:
   a. Wiring Devices
   b. Lighting Fixtures
   c. Lighting Controls
   d. Fire Alarm Devices
   e. Security and Duress Alarm Systems

F. ALTERATIONS TO EXISTING ELECTRICAL WORK
1. The Electrical Contractor shall, as part of their work, perform all related demolition, modifications, relocation of services and related work, including new work necessary to complete the project.
2. Items removed shall be offered to the Owner for their use. If not accepted by the Owner, dispose of the material from the site.
3. Each trade contractor shall be responsible for demolition and relocation of services, equipment and materials relating to each HVAC, plumbing, fire protection and electrical trade.
4. In all cases where equipment and devices are removed that affect the continuity of systems to remain in service, the electrical contractor shall provide all necessary materials, equipment and labor to maintain continued operation of the system affected. Conduit and wiring shall, where necessary, be reworked around the removed part, keeping contiguous parts of the building system in full service.
5. If existing wiring is found not to be in satisfactory condition, notify the Engineer in written form prior to any new work being performed. Include recommended corrective action required to return the existing system to working order.
6. Existing electrical work that has become exposed due to new program, and is to remain in service, shall be relocated, modified or extended as required.
7. Existing equipment, building areas or surfaces that become damaged during construction, shall be restored to their original condition or replaced.
8. The Electrical Contractor shall provide temporary electrical service for any existing equipment or systems required to be maintained in operation during the construction. Final connections to this equipment shall be provided when the required permanent electrical services are installed.

G. ELECTRICAL SYSTEM OUTAGES
1. Electrical work shall be done at such time, and in such manner, as will least interfere with the maintenance and operation of any existing facilities included in the work. Provisions shall be made to permit use of all existing electrical systems at all times. Provide temporary facilities to secure these conditions and remove such temporary facilities when no longer required.
2. Shutdown for disconnecting existing electrical facilities and connecting new electrical work shall be made at such time and in such manner as directed by the Owner.
3. Where shutdown periods cannot be of duration to accommodate the new work, the Contractor shall perform the work in a series of preplanned stages so as to minimize the shutdown periods. Provide temporary facilities to allow re-energizing of service between working stages.
4. Schedule all work required on the first and second floors with the Landlord. Notify the Landlord a minimum of 48 hrs prior to conducting any work.

H. STRUCTURAL CONDITIONS AND INTERFERENCE
1. The Contractor shall carefully examine all architectural and structural drawings for the buildings and all drawings for other trades, and shall be responsible for the proper fitting of his material into the buildings as planned, without interference with other work.
2. The Contractor shall carefully investigate the structural and finish conditions affecting all his work and arrange his work accordingly; furnishing such fittings, bends, etc., as may be required to meet such conditions.
3. All electrical fixtures, equipment, ducts, wiring, etc., shall be installed so as not to interfere with other pipelines, plumbing or electrical fixtures, electrical raceways, etc. All work shall be installed so as to preserve proper access and working clearances. Pipe hangers, conduit, ductwork, and supports, in the immediate vicinity of any piece of equipment shall be located as to leave all parts of the equipment accessible for maintenance and conform to the minimum space conditions of Articles 110 and 710 of the National Electrical Code.

I. SCAFFOLDING, RIGGING, HOISTING
1. Provide scaffolding, ladders, rigging, hoisting and all other equipment required for the installation of electrical work.

J. PAINTING
1. All electrical equipment shall be furnished with factory applied finish, including prime.
2. If factory finish surfaces become damaged or deteriorated, restore the surface to the original condition, to the satisfaction of the Architect.

K. INSPECTION, ADJUSTING, TESTING AND CLEANING
1. At the completion of the project, the Contractor shall make a thorough inspection of all the electrical work. At the final inspection, all systems must be 100 percent complete, and tests shall be performed in strict compliance with equipment manufacturer's standard test procedures or as specified in other sections of the electrical specifications. All instruments, meters, wiring and test equipment required for testing shall be included under this contract.
2. All work shall be planned and coordinated with other trades. Any rework required due to improper sequencing of installation shall be corrected at no additional cost to the Owner.
3. The Contractor shall locate all equipment, which must be serviced, operated or maintained, in fully accessible positions. Such equipment shall include, but not be limited to: panels, motors and controllers, pull, splice and junction boxes. If required, approved access doors shall be provided in hard ceilings or walls. Minor deviations from drawings may be made to allow for improved accessibility, but changes of magnitude or changes which involve extra cost shall not be made without approval of the Owner and Architect.
4. Where conduit runs in close proximity to heating piping or domestic hot water piping, the minimum space between pipes and conduits shall be six inches (6").
5. The Contractor shall maintain maximum headroom and space conditions at all points. Where headroom or space conditions appear inadequate, the Engineer shall be notified before proceeding with installation.
6. The Architect shall be informed of any change in major overall dimensions as shown on the contract documents affecting the physical size, shape or location of any equipment spaces, whether due to field conditions or changes due to the use of equipment or manufacturers other than those submitted. The Architect must approve any changes.

L. ELECTRICAL IDENTIFICATION PRODUCT CRITERIA
1. Raceway And Metal-Clad Cable Identification Materials
   a. Self-Adhesive Vinyl Labels: Preprinted, flexible label laminated with a clear, weather- and chemical-resistant coating and matching wraparound adhesive tape for securing ends of legend label.
   b. Snap-Around Labels: Slit, pretensioned, flexible, preprinted, color-coded acrylic sleeves, with diameter sized to suit diameter of raceway or cable it identifies and to stay in place by gripping action.
   c. Self-Adhesive Vinyl Tape: Colored, heavy duty, waterproof, fade resistant; 2 inches wide; compounded for outdoor use.
2. Conductor And Communication- And Control-Cable Identification Materials
   a. Color-Coding Conductor Tape: Colored, self-adhesive vinyl tape not less than 3 mils thick by 1 to 2 inches wide.
   b. Marker Tapes: Vinyl or vinyl-cloth, self-adhesive wraparound type, with circuit identification legend machine printed by thermal transfer or equivalent process.
3. Warning Labels And Signs
   a. Comply with NFPA 70 and 29 CFR 1910.145.
   b. Self-Adhesive Warning Labels: Factory printed, multicolor, pressure-sensitive adhesive labels, configured for display on front cover, door, or other access to equipment, unless otherwise indicated.
4. Equipment Identification Labels
   a. Adhesive Film Label with Clear Protective Overlay: Machine printed, in black, by thermal transfer or equivalent process. Minimum letter height shall be 3/8 inch. Overlay shall provide a weatherproof and ultraviolet-resistant seal for label.
   b. Engraved, Laminated Acrylic or Melamine Label: Punched or drilled for screw mounting. White letters on a black background. Minimum letter height shall be 3/8 inch.

M. SUPPORT, ANCHORAGE, AND ATTACHMENT COMPONENTS
5. Steel Slotted Support Systems: Comply with MFMA-4, factory-fabricated components for field assembly.
6. Manufacturers:
   a. Cooper B-Line, Inc.; a division of Cooper Industries.
   b. GS Metals Corp.
   c. Thomas & Betts Corporation.
   d. Unistrut; Tyco International, Ltd.
3. Metallic Coatings: Hot-dip galvanized after fabrication and applied according to MFMA-4.
4. Channel Dimensions: Selected for applicable load criteria.
5. Conduit and Cable Support Devices: Steel hangers, clamps, and associated fittings, designed for types and sizes of raceway or cable to be supported.
6. Support for Conductors in Vertical Conduit: Factory-fabricated assembly consisting of threaded body and insulating wedging plug or plugs for non-armored electrical conductors or cables in riser conduits. Plugs shall have number, size, and shape of conductor gripping pieces as required to suit individual conductors or cables supported. Body shall be malleable iron.
7. Mounting, Anchoring, and Attachment Components: Items for fastening electrical items or their supports to building surfaces include the following:
   a. Mechanical-Expansion Anchors: Insert-wedge-type, zinc-coated steel, for use in hardened portland cement concrete with tension, shear, and pullout capacities appropriate for supported loads and building materials in which used.
   b. Concrete Inserts: Steel or malleable-iron, slotted support system units similar to MSS Type 18; complying with MFMA-4 or MSS SP-58.
   c. Clamps for Attachment to Steel Structural Elements: MSS SP-58, type suitable for attached structural element.
   d. Through Bolts: Structural type, hex head, and high strength. Comply with ASTM A 325.
   e. Toggle Bolts: All-steel springhead type.
   f. Hanger Rods: Threaded steel.

N. APPLICATION OF SUPPORTS AND ATTACHMENT COMPONENTS
1. Maximum Support Spacing and Minimum Hanger Rod Size for Raceway: Space supports for EMT and RMC as required by NFPA 70. Minimum rod size shall be 1/4 inch in diameter.
2. Multiple Raceways or Cables: Install trapeze-type supports fabricated with steel slotted support system, sized so capacity can be increased by at least 25 percent in future without exceeding specified design load limits. Secure raceways and cables to these supports with single-bolt conduit clamps.
3. Spring-steel clamps designed for supporting single conduits without bolts may be used for 1-1/2-inch and smaller raceways serving branch circuits and communication systems above suspended ceilings and for fastening raceways to trapeze supports.

ELECTRICAL ABBREVIATIONS

1P	ONE POLE	LCS	LIGHTING CONTROL SYSTEM
2P	TWO POLE	LTG	LIGHTING
3P	THREE POLE	MCB	MAIN CIRCUIT BREAKER
4P	FOUR POLE	MDP	MAIN DISTRIBUTION PANEL
A	AMPERE	MISC	MISCELLANEOUS
AB	ABOVE CEILING	MLO	MAIN LUGS ONLY
AC	ABOVE COUNTER	MOD	MOTOR OPERATED DISCONNECT SWITCH
AFCI	ARC FAULT CIRCUIT INTERRUPTER	MTD	MOUNTED
AFF	ABOVE FINISHED FLOOR	MTG	MOUNTING
AFG	ABOVE FINISHED GRADE	MTS	MANUAL TRANSFER SWITCH
AIC	AMPS INTERRUPTING CURRENT	N/A	NOT APPLICABLE
AL	ALUMINUM	NEC	NATIONAL ELECTRICAL CODE
ARCH	ARCHITECT	NIC	NOT IN CONTRACT
ATS	AUTOMATIC TRANSFER SWITCH	NL	NIGHT LIGHT
BLDG	BUILDING	#	NUMBER
C	CONDUIT	NTS	NOT TO SCALE
CATV	CABLE TELEVISION	P	POLE
CB	CIRCUIT BREAKER	PB	PULL BOX
CD	CANDELA	PH, Ø	PHASE
CKT	CIRCUIT	PNL	PANEL
CT	CURRENT TRANSFORMER	PVC	POLYVINYL CHLORIDE CONDUIT
CU	COPPER	PWR	POWER
DISC	DISCONNECT	REC	RECESSED
DWG	DRAWING	SCR	PROJECTION SCREEN
EC	ELECTRICAL CONTRACTOR	ST	SHUNT TRIP
EWC	ELECTRIC WATER COOLER	SWBD	SWITCHBOARD
FA	FIRE ALARM	SYS	CONNECTION TO SYSTEMS FURNITURE
FAAP	FIRE ALARM ANNUNCUATOR PANEL	TC	TIME CLOCK
FACP	FIRE ALARM CONTROL PANEL	TEL/DATA	TELEPHONE/DATA
FLA	FULL LOAD AMPS	TEL	TELEPHONE
GC	GENERAL CONTRACTOR	TTB	TELEPHONE TERMINAL BOARD
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSION
GND	GROUNDED	TYP	TYPICAL
HP	HORSEPOWER	UON	UNLESS OTHERWISE NOTED
HV	HIGH VOLTAGE	V	VOLT
Hz	HERTZ	W	WATT
IG	ISOLATED GROUND	WAP	WIRELESS ACCESS POINT
INV	INVERTER	WP	WEATHERPROOF
JB	JUNCTION BOX	XFMR	TRANSFORMER
KCMIL	THOUSAND CIRCULAR MILS	+	INDICATES MOUNTED ABOVE CENTER OR AS NOTED ON DRAWING.
KVA	KILOVOLT AMPERE		
KW	KILOWATT	#1/E5.1	DETAIL NUMBER/DRAWING NUMBER

DRAWING SCHEDULE

DRAWING NUMBER	DRAWING TITLE	ISSUE: CONSTRUCTION DOCUMENTS (DATE: 09/16/2022)
E-0	ELECTRICAL COVERSHEET	●
E-2	ELECTRICAL GROUND FLOOR DEMOLITION PLANS	●
E-4	ELECTRICAL GROUND FLOOR NEW WORK PLANS	●
E-5	ELECTRICAL ROOF NEW WORK POWER PLAN	●
E-6	ELECTRICAL SINGLE LINE DIAGRAMS	●
E-7	ELECTRICAL FIRE ALARM RISER DIA. & CUT SHEETS	●
E-8	ELECTRICAL LIGHTING FIXTURE AND CONTROL SCHEDULES	●
E-9	ELECTRICAL SCHEDULES	●

CODE INFORMATION

MUNICIPALITY	RIDLEY TWP
BUILDING CODE	IEBC 2009
USE GROUP	NON-SEPARATED BUSINESS B / STORAGE S-2
SUBCODES	NFPA 70-2005 (NEC) NFPA 72-2002 (NFAC) IECC 2009 ANSI A117.1-2009 (ADA)
LOCAL AMENDMENTS	RIDLEY TWP AMENDMENTS
PERMIT SETS REQUIRED	3

ELECTRICAL SYMBOL LIST

THE FOLLOWING ANNOTATIONS, WHEN SHOWN, APPLY TO THE DISPOSITION OF ELECTRICAL EQUIPMENT AND DEVICES. ALSO REFER TO THE GENERAL NOTES ON EACH DRAWING WHICH DEFINE THE BASE CONDITION.
(E) EXISTING TO REMAIN (ER) EXISTING TO BE RELOCATED
(R) REMOVE EXISTING (RE) RELOCATED EXISTING

POWER - DEVICES
- SINGLE RECEPTACLE
- DUPLEX RECEPTACLE
- QUADRAPLEX RECEPTACLE
- INDICATES DEVICE IS MOUNTED ABOVE COUNTER HEIGHT, BACKSPLASH, OR AS NOTED ON DRAWINGS
- COMBINATION USB RECEPTACLE
- DUPLEX GROUND FAULT RECEPTACLE
- DUPLEX ISOLATED GROUND RECEPTACLE
- DUPLEX RECEPTACLE, SWITCH CONTROLLED
- SINGLE RECEPTACLE - SPECIAL PURPOSE (AS INDICATED ON DRAWINGS)
- RECEPTACLE - CEILING MOUNTED
- MULTI-OUTLET RACEWAY
- JUNCTION BOX (FLOOR, CEILING, WALL)
  P = POWER CONNECTION
  D = DATA CONNECTION
- FBB FLOOR BOX
- PTD POKE THROUGH DEVICE
- HH HAND HOLE
- PP ADA PUSH PLATE
- PS POWER SUPPLY
- PB PULL BOX

POWER - EQUIPMENT
- MOTOR
- ^{M} MANUAL MOTOR STARTER
- MOTOR STARTER
- C CONTACTOR
- R RELAY
- UNFUSED DISCONNECT SWITCH
- FUSED DISCONNECT SWITCH
- ENCLOSED CIRCUIT BREAKER
- COMBINATION MOTOR STARTER DISCONNECT SWITCH
- ELECTRICAL PANELBOARD (FLUSH, SURFACE MOUNTED)
- SYSTEMS PANEL OR TERMINAL CABINET (FLUSH, SURFACE MOUNTED)
- T TRANSFORMER
- M METER
- G GROUND BAR
- CP INDUSTRIAL CONTROL PANEL

LIGHTING (NOTE: UPPER CASE LETTER DENOTES TYPE, LOWER CASE LETTER DENOTES SWITCHING ARRANGEMENT)
- A/a CEILING RECESSED OR SURFACE MOUNTED LIGHT FIXTURE
- B/b LINEAR STRIP FIXTURE
- C/c DOWNLIGHT
- D/d WALL WASHER
- F/f WALL BRACKET FIXTURE
- H/h TRACK LIGHTING
- U/u UNDER CABINET LIGHTING
- A/a, F/f, C/c LIGHTING FIXTURE ON EMERGENCY
- EXIT SIGN
- EB/ER EMERGENCY BATTERY PACK AND REMOTE HEADS

LIGHTING CONTROL
- $ SINGLE POLE SWITCH
- ^{3} ^{4} THREE WAY AND FOUR WAY SWITCHES
- ^{D} DIMMER SWITCH
- ^{J} DOOR JAMB SWITCH
- ^{OS} SWITCHBOX MOUNTED OCCUPANCY SENSOR WITH OVERRIDE SWITCH
- $^{D+OS}$ SWITCHBOX MOUNTED OCCUPANCY CONTROLLED DIMMER SWITCH, 0-10V DIMMING
- OS/XS OCCUPANCY SENSOR, STAND ALONE (WALL MOUNTED, CEILING MOUNTED)
- VS/XS VACANCY SENSOR, STAND ALONE (WALL MOUNTED, CEILING MOUNTED)
- OS DIRECTIONAL SENSOR
- PC PHOTOCELL, STAND ALONE
- TC TIME CLOCK
- LCP LCS CONTROL PANEL
- SE LCS WALL STATION, NETWORKED
- OS/XS LCS OCCUPANCY SENSOR, NETWORKED (WALL MOUNTED, CEILING MOUNTED)
- VS/XS LCS VACANCY SENSOR, NETWORKED (WALL MOUNTED, CEILING MOUNTED)
- PS/PS LCS PHOTOSENSOR, NETWORKED
- M LCS CONTROL MODULE, NETWORKED
- INV EMERGENCY LIGHTING INVERTER

FIRE ALARM
- F PULL STATION
- SMOKE DETECTOR
- DUCT SMOKE DETECTOR
- HEAT DETECTOR
- FLAME DETECTOR
- T/R BEAM SMOKE DETECTOR (TRANSMITTER AND RECEIVER)
- S/CO SINGLE OR MULTI- STATION SMOKE AND/OR CARBON MONOXIDE ALARM
- CO CARBON MONOXIDE DETECTOR
- FIRE FIGHTER'S PHONE
- FS FLOW SWITCH
- TS TAMPER SWITCH
- PS PRESSURE SWITCH
- RM RELAY MODULE
- MM MONITORING MODULE
- DH DOOR HOLD OPEN
- (#) VISUAL NOTIFICATION APPLIANCE (CANDELA RATING) - WALL MOUNTED
- AUDIBLE NOTIFICATION APPLIANCE - WALL MOUNTED
- (#) COMBINATION AUDIBLE/VISUAL APPLIANCE - WALL MOUNTED
- (#) VISUAL NOTIFICATION APPLIANCE (CANDELA RATING) - CEILING MOUNTED
- AUDIBLE NOTIFICATION APPLIANCE - CEILING MOUNTED
- (#) COMBINATION AUDIBLE/VISUAL APPLIANCE - CEILING MOUNTED
- FACP FIRE ALARM CONTROL PANEL
- FAAP FIRE ALARM ANNUNCIATOR PANEL
- NAC NOTIFICATION APPLIANCE CIRCUIT POWER SUPPLY
- AMP VOICE EVACUATION AMPLIFIER
- DACT DIGITAL ALARM COMMUNICATOR TRANSMITTER

FEEDER / BRANCH CIRCUIT WIRING (WHERE SHOWN)
- FEEDER / BRANCH CIRCUIT WIRING AND/OR CONDUIT WITH WIRE, CONCEALED IN CEILING OR WALL.
- FEEDER / BRANCH CIRCUIT WIRING AND/OR CONDUIT WITH WIRE, CONCEALED IN FLOOR OR BELOW GRADE.
- FEEDER / BRANCH CIRCUIT WIRING TO PANEL
- RP 3 DENOTES CIRCUIT NUMBER AT PANELBOARD
- DENOTES PANELBOARD IDENTITY
- FEEDER / BRANCH CIRCUIT WIRING AND/OR CONDUIT WITH WIRE, TURNING UP TOWARDS OBSERVER
- FEEDER / BRANCH CIRCUIT WIRING AND/OR CONDUIT WITH WIRE, TURNING DOWN AWAY FROM OBSERVER
- CT CABLE TRAY

TELECOMMUNICATIONS
- TELECOM OUTLET
- H EQUIPMENT RACK
- WAP WIRELESS ACCESS POINT
- TV CATV OUTLET
- AV AV OUTLET
- T/C UNIT TELECOMMUNICATION ENCLOSURE
- 2W TWO-WAY EMERGENCY TELECOMMUNICATIONS STATION
- S SPEAKER
- IC INTERCOM

SECURITY
- CR CARD READER
- MD MOTION DETECTOR
- SD SOUND DETECTOR
- REX REQUEST TO EXIT SENSOR OR PUSH BUTTON
- CAMERA
- DA DURESS ALARM
- ES ELECTRIC STRIKE
- ML MAGNETIC LOCK
- PT POWER TRANSFER HINGE
- AS ALARM SOUNDER
- DOOR/WINDOW CONTACTS

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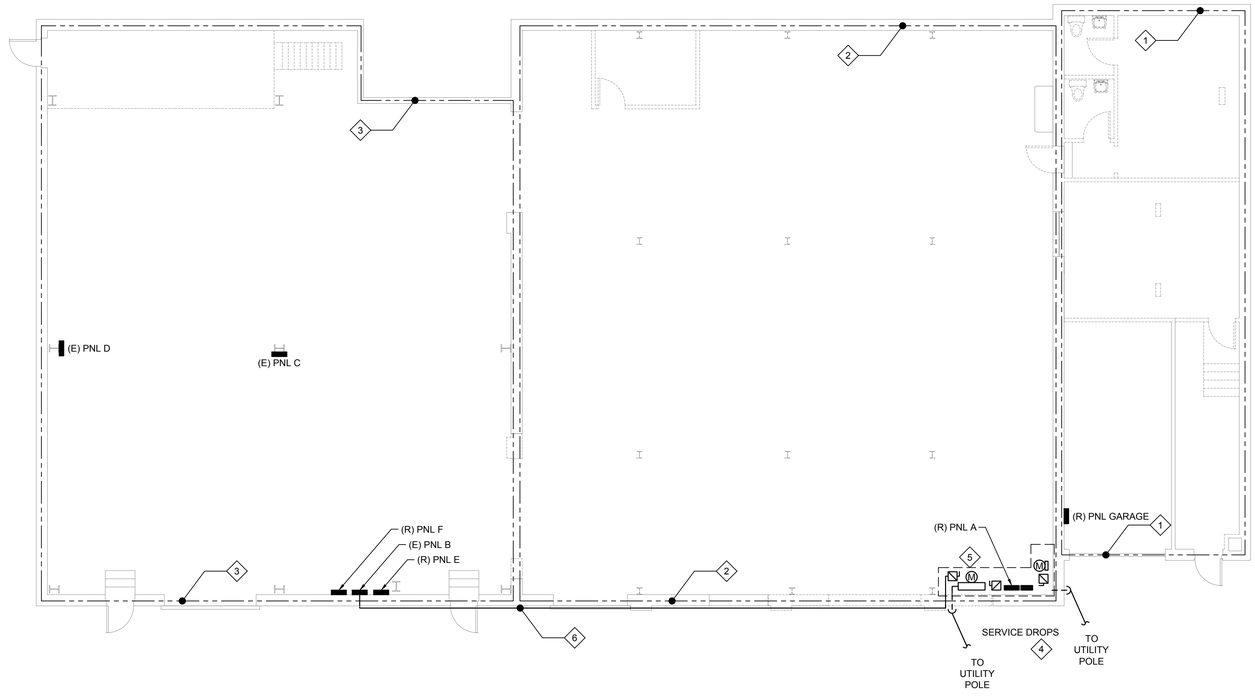
SEAL:

NO.	REVISION	DATE

SHEET NAME:
ELECTRICAL COVER SHEET

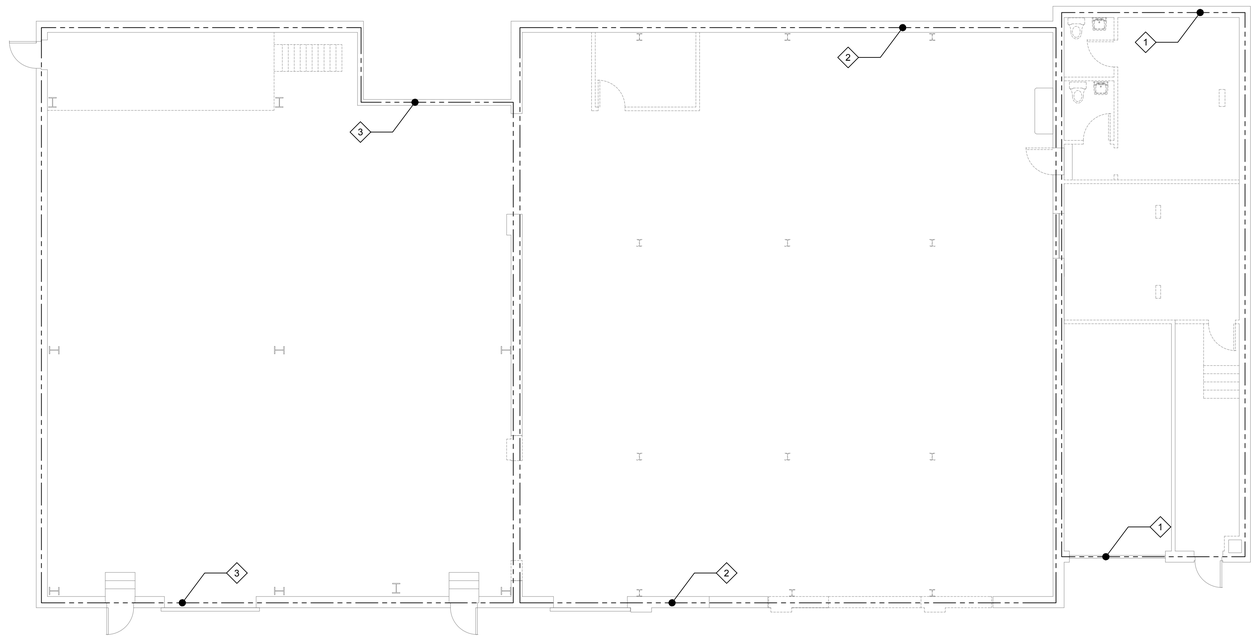
DATE:
09/16/2022
CONSTRUCTION DOCUMENTS

E-0



2 E-2 ELECTRICAL GROUND FLOOR DEMOLITION POWER PLAN

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



1 E-2 ELECTRICAL GROUND FLOOR DEMOLITION LIGHTING PLAN

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

ELECTRICAL GENERAL DEMO NOTES:

1. ALL EQUIPMENT SHALL BE EXISTING TO REMAIN UNLESS OTHERWISE NOTED.
2. ALL EXISTING HVAC EQUIPMENT IN THE PROJECT AREA, EITHER ABOVE THE CEILING OR ON THE ROOF, SHALL BE REMOVED. EQUIPMENT NOT SHOWN FOR CLARITY.
3. EC SHALL TRACE ALL CIRCUITS OF EQUIPMENT AND DEVICES DESIGNATED AS EXISTING TO REMAIN (E) PRIOR TO DEMOLITION. RECIRCUIT EQUIPMENT IF EXISTING BRANCH CIRCUIT CANNOT BE PROTECTED DURING DEMOLITION.

ELECTRICAL KEYED DEMO NOTES:

1. RAISED FLOOR AND INTERIOR PARTITIONS IN THE OFFICE BLOCK WILL BE REMOVED. REMOVE ALL ELECTRICAL EQUIPMENT, RACEWAY, ASSOCIATED SUPPORTS AND WIRING BACK TO SOURCE OF POWER.
2. ROOF AND STRUCTURE IN THE CENTER WAREHOUSE BAY WILL BE REMOVED AND REPLACED. REMOVE ALL ELECTRICAL EQUIPMENT, RACEWAY, ASSOCIATED SUPPORTS AND WIRING BACK TO SOURCE OF POWER.
3. ROOF, STRUCTURE AND FLOOR IN THE END WAREHOUSE BAY WILL REMAIN AND BE REPAIRED AS REQUIRED. ALL PANELS SHALL REMAIN, UON. ALL WALL MOUNTED OR COLUMN MOUNTED DEVICES FED FROM CIRCUITS ROUTED BELOW THE FLOOR SLAB SHALL REMAIN. FOR ELECTRICAL DEVICES MOUNTED TO ROOF STRUCTURE, REMOVE ALL RACEWAY, ASSOCIATED SUPPORTS AND WIRING BACK TO SOURCE OF POWER, UON.
4. REMOVE EXISTING ELECTRICAL SERVICE AND DISTRIBUTION EQUIPMENT MOUNTED ON THE INTERIOR AND EXTERIOR OF THE INDICATED WALL. COORDINATE UPGRADE OF THE UTILITY SERVICE WITH PECO. THE EXISTING SINGLE PHASE SERVICE SHALL BE REMOVED. THE EXISTING THREE PHASE SERVICE WILL BE UPGRADED. REFER TO DETAILS 1/E-6 AND 2/E-6.
5. REMOVE EXISTING ELECTRICAL SERVICE EQUIPMENT, PANELS, DISCONNECT SWITCHES AND SUPPORTING WOOD STRUCTURE.
6. REMOVE EXTERIOR BUILDING MOUNTED CONDUIT AND CABLE. FEEDER SHALL BE REPLACED. REFER TO NEW WORK DWG E-4.

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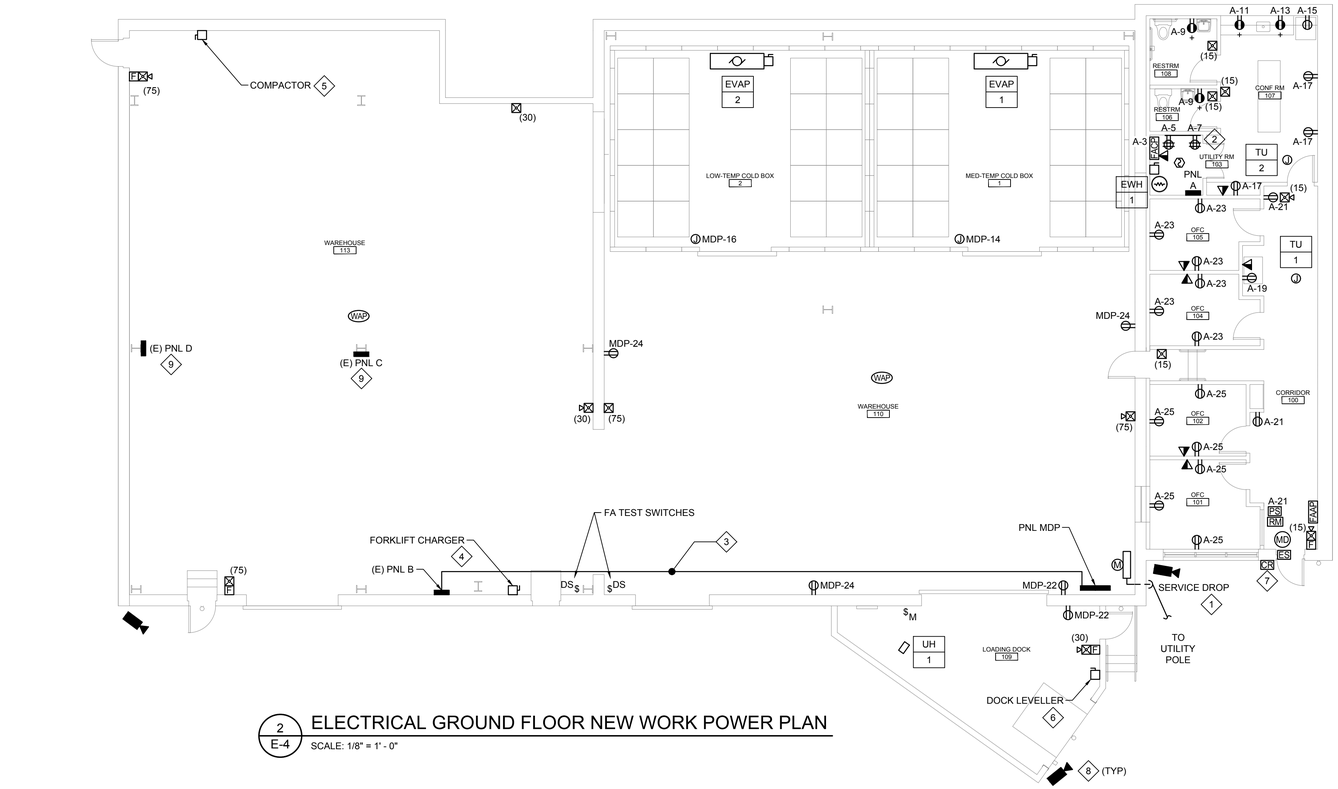
SHEET NAME:
ELECTRICAL GROUND FLOOR DEMOLITION PLANS

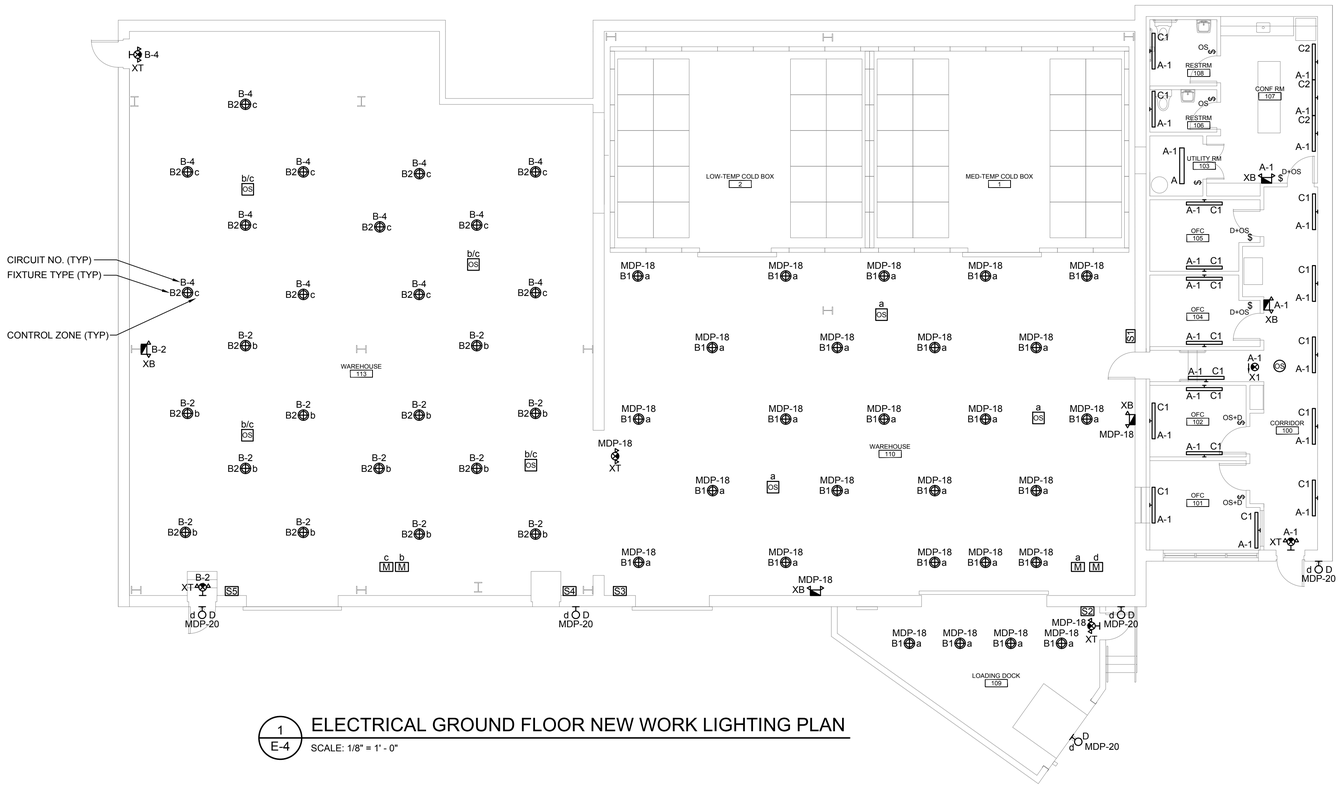
DATE:
09/16/2022
CONSTRUCTION DOCUMENTS

E-2



2 E-4 ELECTRICAL GROUND FLOOR NEW WORK POWER PLAN

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



1 E-4 ELECTRICAL GROUND FLOOR NEW WORK LIGHTING PLAN

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

ELECTRICAL GENERAL NOTES:

1. ALL EQUIPMENT SHALL BE NEW UNLESS OTHERWISE NOTED.
2. REFER TO ELECTRICAL CONNECTION SCHEDULE ON DWG E-6 FOR CIRCUITING OF MECHANICAL EQUIPMENT.
3. REFER TO LIGHTING FIXTURE SCHEDULE ON DWG E-8 FOR FIXTURE DESCRIPTIONS.
4. REFER TO DTL 1/E-8 FOR LIGHTING CONTROL SYSTEM RISER DIAGRAM.

ELECTRICAL KEYED NOTES:

1. REFER TO STRUCTURAL DWGS FOR MOUNTING OF NEW UTILITY SERVICE MAST TO THE BUILDING EXTERIOR.
2. PROVIDE 3/4" PLYWOOD WITH FIRE RESISTANT PAINT FOR TELECOM BACKBOARD.
3. PROVIDE NEW FEEDER TO PANEL B. ROUTE TIGHT TO ROOF STRUCTURE. REFER TO SLD ON DWG E-6 FOR FEEDER SIZING.
4. FORKLIFT CHARGING STATION. PROVIDE 3-#10 + #10G IN 3/4"C, CIRCUIT TO B-12. PROVIDE 30A/3P DISCONNECT SWITCH ADJACENT TO CHARGER.
5. COMPACTOR. PROVIDE 2-#12 + #12G IN 3/4"C, CIRCUIT TO B-1. PROVIDE 30A/2P DISCONNECT SWITCH ADJACENT TO COMPACTOR CONTROL STATION.
6. DOCK LEVELLER. PROVIDE 3-#10 + #10G IN 3/4"C, CIRCUIT TO MDP-19. PROVIDE 30A/3P DISCONNECT SWITCH ADJACENT TO LEVELLER CONTROL STATION.
7. PROVIDE JB ABOVE CEILING ON SECURE SIDE OF DOOR FOR INSTALLATION OF SECURITY REMOTE INTERFACE MODULE. PROVIDE 3/4" FLEX CONDUIT FROM JB TO EACH OF THE SECURITY DEVICES. COORDINATE CONDUIT INSTALLATION WITH DOORS AND FRAMES. PROVIDE BACK BOXES FOR CARD READER, COORDINATE MOUNTING INSTALLATION WITH ARCHITECT. FIRE ALARM RELAY MODULE SHALL CAUSE ELECTRIC DOOR STRIKE TO FAIL-SAFE.
8. PROVIDE 3/4"C WITH PULL STRING FROM EACH CCTV CAMERA TO UTILITY RM 103. COORDINATE FINAL PLACEMENT OF CAMERAS WITH OWNER.
9. ADD ALT E-1: PROVIDE BREAKOUT PRICING FOR REPLACEMENT OF PANEL C AND PANEL D.

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ELECTRICAL GROUND FLOOR NEW WORK PLANS

DATE: 09/16/2022
CONSTRUCTION DOCUMENTS

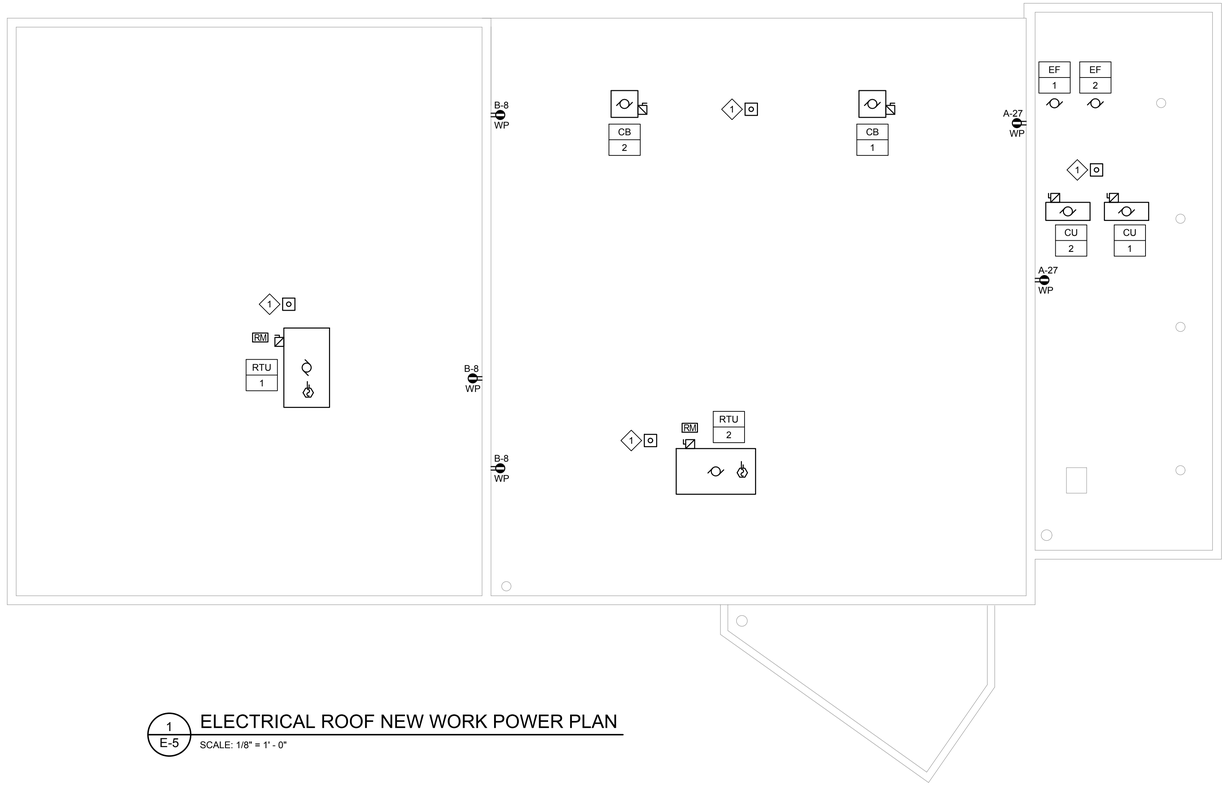
E-4

ELECTRICAL GENERAL NOTES:

1. REFER TO ELECTRICAL CONNECTION SCHEDULE ON DWG E-9 FOR CIRCUITING OF MECHANICAL EQUIPMENT.

ELECTRICAL KEYED NOTES:

1 CONSOLIDATE CU BRANCH CIRCUITS AT LOCATIONS SHOWN. PROVIDE PATE ROOF PENETRATION ASSEMBLY (OR EQUAL) AND 4" PVC CONDUIT SLEEVE. COORDINATE ROOF PENETRATION ASSEMBLY CONFIGURATION AND LOCATION WITH MECHANICAL CONTRACTOR.



1 / E-5 ELECTRICAL ROOF NEW WORK POWER PLAN

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

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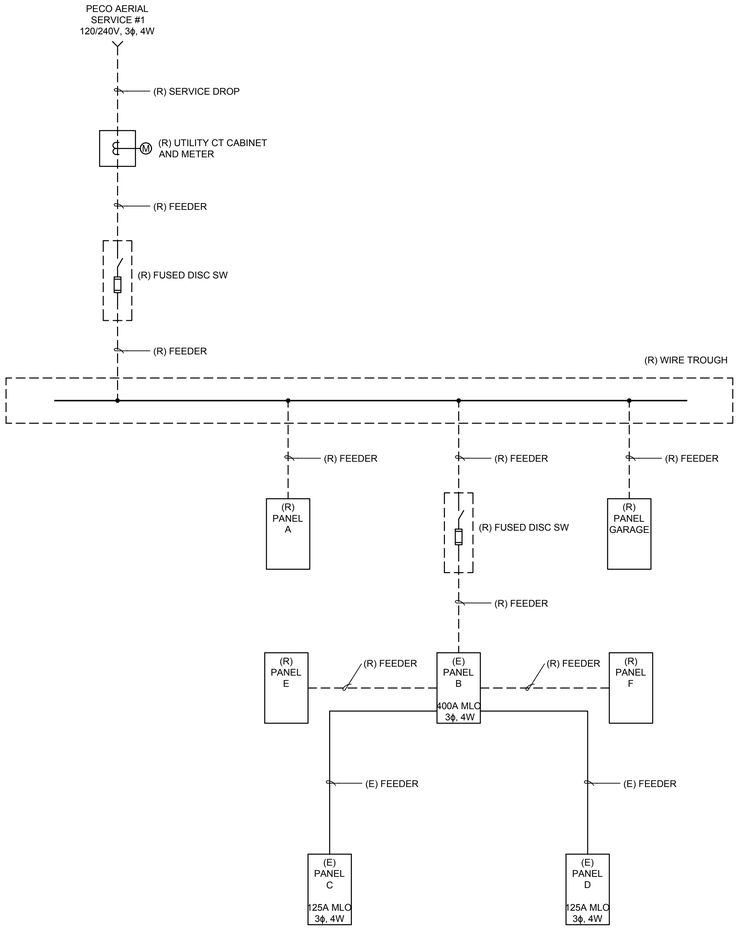
SEAL:

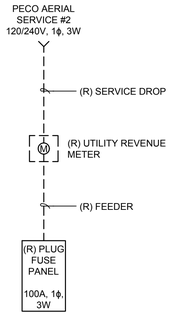
NO.	REVISION	DATE

SHEET NAME:
ELECTRICAL
ROOF NEW WORK
POWER PLAN

DATE:
09/16/2022
CONSTRUCTION DOCUMENTS

E-5



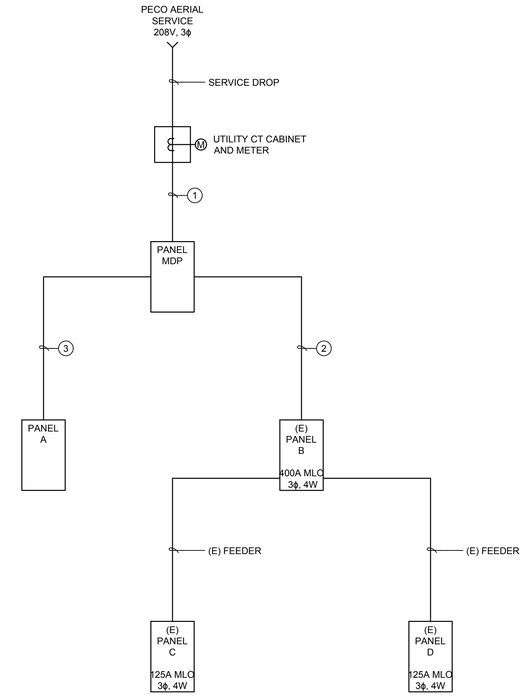


1 E-6 ELECTRICAL SINGLE LINE DIAGRAM - EXISTING

SCALE: NONE

ELECTRICAL SINGLE LINE DIAGRAM NOTES:

1. ALL EQUIPMENT SHALL BE EXISTING TO REMAIN, UNLESS OTHERWISE NOTED.
2. PRIOR TO WORKING ON ANY ELECTRICAL EQUIPMENT, THE EC SHALL TRACE FEEDERS TO CONFIRM CONNECTIONS.
3. REMOVE EXISTING ELECTRICAL SINGLE PHASE SERVICES. A NEW THREE PHASE SERVICE SHALL BE PROVIDED. REFER TO DTL 2/E-6.

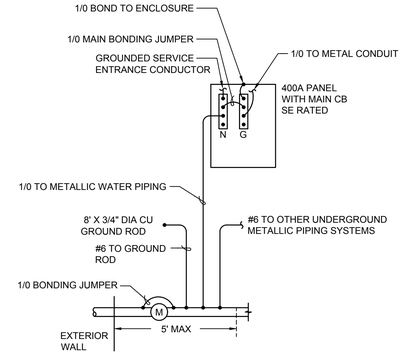


2 E-6 ELECTRICAL SINGLE LINE DIAGRAM - NEW

SCALE: NONE

ELECTRICAL SINGLE LINE DIAGRAM NOTES:

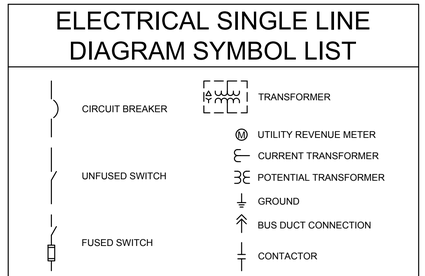
1. ALL EQUIPMENT SHALL BE NEW, UNLESS OTHERWISE NOTED.
2. COORDINATE NEW SERVICE REQUIREMENTS WITH PECO.



3 E-6 ELECTRICAL GROUNDING DIAGRAM

SCALE: NONE

ELECTRICAL SINGLE LINE DIAGRAM SYMBOL LIST



FEEDER SCHEDULE

1	4-500 MCM [CU] IN 3-1/2" C
2	4-#4/0 [CU] + #4G IN 2-1/2" C
3	4-#2 [CU] + #8G IN 1-1/2" C

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HOLMES, PA
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SEAL:

NO.	REVISION	DATE

SHEET NAME:
ELECTRICAL
SINGLE LINE DIAGRAMS

DATE:
09/16/2022
CONSTRUCTION DOCUMENTS

E-6

Honeywell | Addressable Fire Alarm Control Panels

6808

Addressable Fire Alarm Control Panel

The 6808 is an addressable fire alarm control panel (FACP) that is a direct replacement for the 5808 FACP. The 6808 can be configured to achieve a point capacity of 198 points. It has one built-in signaling line circuit (SLC), which can support 99 System Sensor® (SK) sensors and 99 SK modules or 127 Hochiki® (SD) devices per loop.

A common communications and annunciation link allows up to 17 panels to be connected via copper or fiber optic cable. A designated panel is configured as the communicator for all panels in the link for convenient single-point communications. It also has a built-in, dual-line POTS and IP communicator with additional cellular options available.

The 6808 system can be enhanced by adding modules such as the 6860 remote annunciator which also has four programmable function buttons to help automate tasks and reduce time spent at the panel.

SWIFT® wireless compatibility provides options for wireless detection through a Class A mesh network. It is ideal for hard-to-wire locations, buildings where new wiring is not allowed, or to provide an easy install fire system for new construction projects. SWIFT devices can be combined with other hard-wired 6808 compatible devices.

The 6808 also has a form-C trouble relay, two programmable form-C relays, along with powerful features such as drift compensation, pre-trouble maintenance alert, a built-in sensor test to comply with NFPA 72 calibration testing requirements, and calibration trouble alert.

6808

The supports a variety of devices, including the 6860, 5860, and 6855 remote annunciators, 5824 serial parallel printer interface module (for printing system reports), the 5496 NAC expander, 5895XL power module, and SK or SD devices.

FEATURES & BENEFITS

- Capable of providing up to 198 points to satisfy smaller installation needs
- Connect up to 17 panels on one site with convenient single-point access using the SK-NIC Network Interface Card. Connected panels can have mixed compatible FACP models
- Convenient field-upgradeable firmware
- Built-in dual path POTS and IP communications with optional cellular models available for reliable backup reporting
- 6860 annunciator with a 4 x 40 large display
- Four user-programmable buttons minimize time spent executing complex or routine tasks
- Built-in USB interface for convenient and quick programming
- Programmable date setting for automatic and convenient Daylight Saving Time changes
- JumpStart® auto programming reduces installation time
- 125 software zones and 125 output groups for flexible design options

SK COMPATIBLE ADDRESSABLE DEVICES
SK-ACCLIMATE: Multi criteria photoelectric smoke detector with thermal 135°F fixed temperature
SK-BEAM: Reflected beam smoke detector without test feature
SK-BEAM-T: Reflected beam smoke detector with test feature
SK-CONTROL: Supervised control module
SK-CONTROL-6: Six circuit supervised control module
SK-DUCT: Photoelectric duct smoke detector with extended air speed range
SK-FIRE-CO: Four criteria fire and carbon monoxide detector
SK-HEAT: Fixed thermal detector (135°F)
SK-HEAT-W: Fixed thermal detector (135°F), white
SK-HEAT-ROR: Fixed rate of rise detector (135°F)
SK-HEAT-ROR-W: Fixed rate of rise detector (135°F), white
SK-HEAT-HT: Fixed high temperature thermal detector (190°F)
SK-HEAT-HT-W: Fixed high temperature thermal detector (190°F), white
SK-ISO: Fault isolator module
SK-MINIMON: Mini monitor module
SK-MONITOR: Monitor module
SK-MONITOR-2: Dual input monitor module
SK-MON-10: 10 input monitor module
SK-PHOTO: Photoelectric smoke detector
SK-PHOTO-W: Photoelectric smoke detector, white
SK-PHOTO-T: Photoelectric smoke detector with thermal (135°F fixed temperature)
SK-PHOTO-T-W: Photoelectric smoke detector with thermal (135°F fixed temperature), white
SK-PHOTOTR: Photoelectric detector with remote test capability
SK-PHOTO-R-W: Photoelectric detector with remote test capability, white
SK-PULL-SA: Addressable single action pull station
SK-PULL-DA: Addressable dual action pull station
SK-RELAY: Addressable relay module
SK-RELAY-6: Addressable Six relay control module
SK-RELAYMON-2: Addressable Dual relay/monitor module
SK-ZONE: Addressable zone interface module
SK-ZONE-6: Six zone interface module
B300-6C-IV2: 6" base for SK-W Series
B210LP: 2" mounting base
B501(-BL,-IV,-WHITE3): 4"flangeless base
B501: 4" Flangeless mounting base
B200SC-IV,-WH3: Intelligent sounder base
B200S: Intelligent sounder base
B200S-LF(-IV,-WH): Low-Frequency intelligent sounder base
B200S-LF: Low-Frequency intelligent sounder base
B224RBE-IV,-WH: Relay base
B224RB: Relay base
B224BC-IV,-WH: Isolator base
B224BI: Isolator base

SD COMPATIBLE ADDRESSABLE DEVICES
SDSOS-6AB: Addressable 6" base
SDSOS-6IB: Addressable 6" short circuit isolator base
SDSOS-6RB: Addressable 6" relay base
SDSOS-6SB: Addressable 6" sounder base
SD500-AIM: Addressable input module (switch input)
SD500-ANM: Addressable notification module
SD500-ARM: Addressable relay module
SD505-DTS-R: Remote test switch and LED indicator for the SD505-DUCTR
SD505-DUCT: Addressable Duct Smoke Detector
SD505-DUCTR: Addressable Duct Detector housing with relay base.
SD505-HEAT: Absolute temperature heat detector. Trip point range from 135°F-150°F (57°C-37°C).
SD500-LIM: Addressable Line Isolator module
SD500-MIM: Addressable Mini input monitor module (switch input)
SD505-PHOTO: Photoelectric smoke detector
SD500-PS/-PSDA: Addressable Single or dual action pull station
SD500-SDM: Addressable smoke detector module

AUDIBLE/VISIBLE DEVICES
These AV devices are all 2-wire. Color: "R" indicates red; "W" denotes white. For a complete listing of Silent Knight AV devices go to **www.silentknight.com.**
CHSRL/CHSWL: Wall chime/strobe
CHSCRL/CHSCWL: Ceiling chime/strobe
CHRL/CHWL: Wall chime
HRL/HWL: Wall horn
P2RL/P2WL: Wall horn/strobe
PC2RL/PC2WL: Ceiling horn/strobe
SRL/SWL: Wall strobe
SCRL/SCWL: Ceiling strobe
SPSCRL/SPSCWL: Ceiling speaker/strobe
SPSRL/SPSWL: Wall speaker/strobe
SPRL/SPWL: Wall speaker
SPCRL/SPCWL: Ceiling speaker

SWIFT WIRELESS DEVICES
SWIFT is only compatible with System Sensor (SK) devices. It is not compatible with Hochiki (SD) devices.
WSK-WGI: Wireless Gateway
WSK-PHOTO: Wireless Photoelectric smoke detector
WSK-PHOTO-T: Wireless Multi-criteria photoelectric smoke detector with thermal detection (135°F fixed temperature) and BS10W 4" base
WSK-HEAT: Wireless Heat, (135°F fixed temperature) and BS10W 4" base
WSK-HEAT-ROR: Wireless heat, ROR (135°F fixed temperature) and BS10W 4" base
WSK-MONITOR: Wireless monitor module
WSK-RELAY: Wireless relay module
W-USB: SWIFT Tools USB transceiver used for communication with SWIFT devices

SBUS ACCESSORIES
5496: A 6 amp notification power expander with four power-limited notification appliance circuit outputs.
5803: Relay Interface. Provides 10 Form C relays.
5824: Serial/Parallel Printer Interface Module for printer connection.
5895XL: Power Supply with six Flexput™ circuits, and two Form C relays. Max. 16 per system.
5815RMK: Remote mounting kit. Dimensions: 10 3/8"W x 10-3/16"H x 3"D

COMMUNICATION OPTIONS
CELL-CAB-SK: Cellular communicator, metal enclosure with lock/key*
CELL-MOD: Cellular communicator, plastic enclosure*
*Side path, powered by panel.
IPGSM-4G: Dual path fire alarm communicator, cellular and/or IP (primary or backup, selectable)
SK-IP-2: Remote reporting via the Internet. Requires a VisorAlarm® receiver at the central station

MISC. ACCESSORIES
SK-NIC: Network Interface Card. Provides a common communications link for the 6808.
SK-NIC-KIT: Installation Accessory Kit
SK-FML: Fiber-Optic Multi Mode, transmitter and receiver
SK-FSL: Fiber-Optic Single Mode
RBB: Remote battery box accessory cabinet for batteries that are too large to fit in the FACP cabinet. Dimensions: 16" W x 10" H x 6" D (406mm W x 254mm H x 152mm D).
SK-SCK: Seismic Compliance Kit used to securely fasten batteries to the fire panel.

Honeywell | SILENT KNIGHT

5860

Remote Annunciator

The 5860 remote annunciator, can be used to operate and program Honeywell Silent Knight fire alarm control panels (FACPs) from anywhere within the system.

The 5860 features include an 80-character backlit LCD providing easy-to understand system messages. The annunciator is ergonomically designed with over-sized buttons for the most frequently used features, like Reset and Silence.

In addition to status messages displayed on the LCD, there are five LEDs for alarm, supervisory, trouble, silence, and AC power status.

The 5860 annunciator is available in gray to match virtually any decor and red for applications where the annunciator must stand out. The annunciator enclosure can be surface or flush mounted. A trim ring kit is available for surface mounting.

5860 / 5860R

COMPATIBILITY
The 5860 is compatible with the following Honeywell Silent Knight FACPs:
6820: Addressable fire alarm control panel with up to 1,110 addressable points
6820EVS: Addressable fire alarm control panel with an emergency communication systems and up to 1,110 addressable points
6808: Addressable fire alarm control panel with up to 198 addressable points
6700: Addressable fire alarm control panel with up to 100 addressable points
5820XL: Addressable fire alarm control panel
5820XL-EVS: Addressable fire alarm control panel with an emergency communication systems
5808: Addressable fire alarm control panel
5700: Addressable fire alarm control panel

FEATURES & BENEFITS

- 80-character backlit LCD display (4 lines with 20 characters per line)
- Tactile / audible feedback when a key is pressed on the annunciator
- Uses the RS-485 SBUS to interface with the panel
- Support for simultaneous use of multiple 5860s
- Easily view current status by alarms, supervisories, or troubles
- Five Status LEDs
- Available in red or light gray color
- Accommodates wiring lengths up to 6000 ft. from the control panel for added design and install flexibility
- Accepts user codes or fire fighter's key
- Larger keypad buttons makes it easier to maneuver for system reset and silencing

5860 Technical Specifications

5860 Features

PHYSICAL
Dimensions: 9.1"W x 7.4"H x 1.5"D (23.1W x 18.8H x 3.8D cm)
Shipping Weight: 2.8 lbs (1.3 kg)
Color: 5860R: Red; 5860: Gray

ENVIRONMENTAL
Operating Temperature: 32°F to 120°F (0°C to 49°C)
Humidity: 10% - 93% non-condensing)

ELECTRICAL
Operating Voltage: 24VDC
Standby Current: 20mA
Alarm Current: 25mA

ORDERING INFORMATION
5860: Remote Annunciator, four line (4x20) LCD annunciator with 20 characters per line, Gray
5860R: Remote Annunciator, four line (4x20) LCD annunciator with 20 characters per line, Red

ACCESSORIES
5860TR: Red Trim Ring for surface mounting
5860TG: Gray Trim Ring for surface mounting

AGENCY LISTINGS AND APPROVALS
UL listed
CSFM approved
Meets NFPA 72 requirements
FM approved
MEA approved

For more information
Learn more about Honeywell Silent Knight and other products by visiting www.silentknight.com

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800-328-0103

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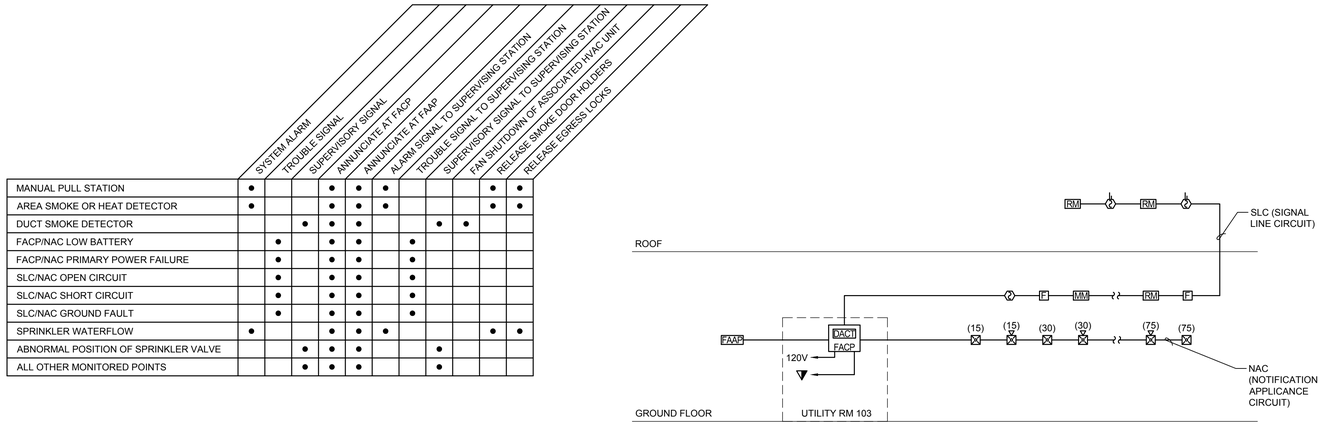
Honeywell | SILENT KNIGHT

For a complete listing of all compliance approvals and certifications, please visit **www.silentknight.com.**

This document is not intended to be used for installation purposes. We try to keep our product information up-to date and accurate. We cannot cover specific applications or anticipate all requirements. All specifications are subject to change without notice.

For Technical Support, call 800-446-6444.



2 E-7 FIRE ALARM SEQUENCE OF OPERATIONS MATRIX

SCALE: NONE

THE BASIS OF DESIGN FOR THE FIRE ALARM SYSTEM SHALL BE AS PROVIDED BY SILENT KNIGHT WITH SPECIFIC COMPONENTS AS OUTLINED BELOW. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR FIRE ALARM CALCULATIONS WHICH WILL REQUIRE SUBMISSION TO THE CODE REVIEWER UPON AWARD OF THE FIRE ALARM CONSTRUCTION CONTRACT.

CONTRACTOR SHALL COMPILE SHOP DRAWINGS FOR REVIEW BY THE ENGINEER USING THE FOLLOWING EQUIPMENT AS THE DESIGN BASIS, UPDATED BY THE MANUFACTURER AS NECESSARY TO FORM A COMPLETE AND FUNCTIONAL FIRE ALARM SYSTEM.

EQUIPMENT OR DEVICE	MODEL NUMBER
FIRE ALARM CONTROL PANEL	SK-6808
FIRE ALARM ANNUNCIATOR PANEL	SK-5860
NAC POWER SUPPLY	SK-5895XL
STROBE	SRL
HORN/STROBE	P2RL
SMOKE DETECTOR	SK-PHOTO
DUCT SMOKE DETECTOR	SK-DUCT
RELAY MODULE	SK-RELAY
MONITOR MODULE	SK-MONITOR
PULL STATION	SK-PULL-DA

1 E-7 FIRE ALARM PARTIAL RISER DIAGRAM

SCALE: NONE

NEW WORK NOTES:

1. ALL EQUIPMENT SHALL BE NEW UNLESS OTHERWISE NOTED.
2. REFER TO FLOOR PLANS FOR QUANTITY OF DEVICES.
3. REFER TO DTL 2/E-7 FOR REQUIRED SEQUENCE OF OPERATIONS.
4. PROVIDE WIRING PER MANUFACTURER'S RECOMMENDATION. WIRING INSULATION SHALL BE PLENUM RATED WHERE NOT INSTALLED IN CONDUIT.
5. DACT INTEGRAL TO THE FACP SHALL AUTOMATICALLY DIAL OUT TO THE REMOTE CENTRAL MONITORING STATION.

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SEAL:

NO.	REVISION	DATE

SHEET NAME:
ELECTRICAL
FIRE ALARM RISER DIA.
& CUT SHEETS

DATE:
09/16/2022
CONSTRUCTION DOCUMENTS

E-7

INTERIOR LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	LAMP TYPE	LAMP NO.	FIXTURE VA	VOLTAGE	MOUNTING	FINISH	MANUFACTURER/MODEL NUMBER - NOTES 2, 3	NOTES
A	4' LINEAR STRIP WITH FROSTED ACRYLIC LENS	LED 3800 LM 3000K	-	30	120	SURFACE	WHITE	COLUMBIA MPS-4-30-MW-C-W-E-U	
B1	LOW BAY 16" DIA WITH ACRYLIC DIFFUSE REFLECTOR AND DROP LENS	LED 8000 LM 3000K, 80 CRI	-	49	120/277	PENDANT	WHITE	LSI AUL-8L-S-830-UNV-GWT-R16AD-R16CPA-ST24WHT	TYPE V DISTRIBUTION 24"L x 3/4"DIA RIGID PIPE MOUNTING 0-10V, 1% DIMMING DRIVER, INTEGRAL TO FIXTURE
B2	LOW BAY 16" DIA WITH ACRYLIC DIFFUSE REFLECTOR AND DROP LENS	LED 12000 LM 3000K, 80 CRI	-	75	120/277	PENDANT	WHITE	LSI AUL-12L-S-830-UNV-GWT-R16AD-R16CPA-ST24WHT	TYPE V DISTRIBUTION 24"L x 3/4"DIA RIGID PIPE MOUNTING 0-10V, 1% DIMMING DRIVER, INTEGRAL TO FIXTURE
C1	3-1/2" X 4' LINEAR INDIRECT / DIRECT	LED 3000 UP/2000 DN LM 3000K, 80 CRI	-	40	120/277	WALL	WHITE	PINNACLE EX3DI-A-WHE-830-830HO-4FT-WA-U-FSD-1-0-W	DIFFUSE LENS FOR DN LIGHT ASYMMETRIC DISTRIBUTION FOR UP LIGHT 0-10V, 1% DIMMING DRIVER
C2	3-1/2" X 4' LINEAR INDIRECT / DIRECT	LED 4000 UP/2000 DN LM 3000K, 80 CRI	-	48	120/277	WALL	WHITE	PINNACLE EX3DI-A-WHE-830-830VHO-4FT-WA-U-FSD-1-0-W	DIFFUSE LENS FOR DN LIGHT ASYMMETRIC DISTRIBUTION FOR UP LIGHT 0-10V, 1% DIMMING DRIVER
X1	EXIT SIGN SINGLE FACE	LED	-	< 1.5	120	SURFACE	WHITE	DUAL LITE: EVE-U-R-W-E	INTEGRAL NiMH BATTERY AND CHARGER RED, UNIVERSAL ARROWS, UNIVERSAL MOUNTING THERMOPLASTIC HOUSING
X2	EXIT SIGN DOUBLE FACE	LED	-	< 1.5	120	SURFACE	WHITE	DUAL LITE: EVE-U-R-W-E	INTEGRAL NiMH BATTERY AND CHARGER RED, UNIVERSAL ARROWS, UNIVERSAL MOUNTING THERMOPLASTIC HOUSING
XB	UNIT EQUIPMENT TWO HEADS WITH REMOTE HEAD CAPACITY	LED	-	4	120	SURFACE	WHITE	DUAL LITE: EV-4-D-02L (-0 NO HEAD OPTION WHERE SHOWN ON PLANS) DUAL LITE: EVO-D (DUAL REMOTE HEAD, INDOOR OR OUTDOOR)	UL DAMP LISTED THERMOPLASTIC HOUSING
XT	TANDEM EMERGENCY LIGHTING UNIT AND EXIT SIGN TWO HEADS WITH REMOTE HEAD CAPACITY	LED	-	4	120	SURFACE	WHITE	DUAL LITE: EVC-U-R-W-D4 DUAL LITE: EVO-D (DUAL REMOTE HEAD, INDOOR OR OUTDOOR)	UL DAMP LISTED RED, UNIVERSAL ARROWS, UNIVERSAL MOUNTING THERMOPLASTIC HOUSING

EXTERIOR LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	LAMP TYPE	LAMP NO.	FIXTURE VA	VOLTAGE	MOUNTING	FINISH	MANUFACTURER/MODEL NUMBER - NOTES 2, 3	NOTES
D	10"L x 6"DIA CYLINDER	LED 2500 LM 3000K, 93 CRI	-	25	120/277	WALL	BLACK	FC LIGHTING FCC600-10-WM-UNV-930-25L-BKE-72-LD	CAST ALUMINUM HOUSING, UL WET LISTED, IP65 RATING 0-10V, 1% DIMMING DRIVER, INTEGRAL TO FIXTURE

NOTES:
1. "/E" DESIGNATION INDICATES FIXTURE PROVIDED WITH UL 924 LISTED EMERGENCY BATTERY PACK AND CHARGER FOR 90 MINUTES RUN TIME. INTEGRAL OR REMOTE BATTERY PACK AS NOTED. REFER TO LIGHTING FLOOR PLANS FOR EMERGENCY FIXTURE LOCATIONS.
2. REFER TO ARCHITECTURAL RCP FOR FIXTURE PLACEMENT, CEILING TYPES AND MOUNTING HEIGHT.
3. REFER TO ARCHITECT FOR CONFIRMATION OF FINISH SELECTIONS.

DISTRIBUTED CONTROL SCHEDULE

BASIS OF DESIGN: HUBBELL NX DISTRIBUTED CONTROL SYSTEM

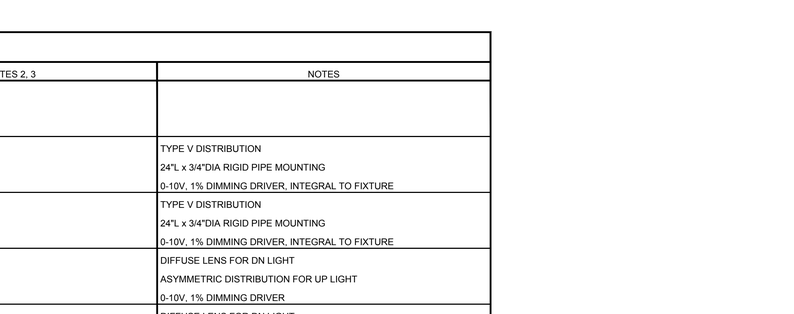
CONTROLLER ID FLOOR	CONTROLLER ID SEQ	DESCRIPTION	VOLTAGE	POLES	CIRCUIT NUMBER	NETWORK CONTROL - NOTE 1	CONTROL DIM/SWITCHED	DIM CONTROLLER
G	a	WAREHOUSE 110	120	1	MDP-18	OS / TS	DIM	0-10V
G	b	WAREHOUSE 113	120	1	B-2	OS / TS	DIM	0-10V
G	c	WAREHOUSE 113	120	1	B-4	OS / TS	DIM	0-10V
G	d	BLDG FAÇADE	120	1	MDP-20	TS	DIM	0-10V

NOTES:
1. OS = OCCUPANCY SENSOR, VS = VACANCY SENSOR, TS = TIME SCHEDULE, DL = DAYLIGHT RESPONSIVE

CONTROL STATION SCHEDULE

STATION NO.	LOCATION	LTG ZONE	ASSIGNED CONTROLLER	NOTES
S1	WAREHOUSE 110	OVERHEAD LTG, BLDG FAÇADE	a, d	3
S2	WAREHOUSE 110	OVERHEAD LTG	a	4
S3	WAREHOUSE 110	OVERHEAD LTG	a	4
S4	WAREHOUSE 113	OVERHEAD LTG	b, c	3
S5	WAREHOUSE 113	OVERHEAD LTG	b, c	3

NOTES:
1. TOUCH SCREEN
2. PUSHBUTTON WALL STATION, 4 ZONES ON/OFF + RAISE/LOWER
3. PUSHBUTTON WALL STATION, 2 ZONES ON/OFF + RAISE/LOWER
4. PUSHBUTTON WALL STATION, 1 ZONE ON/OFF + RAISE/LOWER



1 / E-8 LIGHTING CONTROL SYSTEM RISER DIAGRAM

SCALE: NONE

DETAIL NOTES:

1. LIGHTING CONTROL SYSTEM IS A DISTRIBUTED CONTROL SYSTEM, WITH CONTROL COMPONENTS LOCATED ABOVE THE CEILING.
2. RISER DIAGRAM AND SCHEDULES DEPICT CONTROL INTENT. MANUFACTURER SHALL PROVIDE A PROJECT-SPECIFIC RISER DIAGRAM WITH ALL CONTROL INPUTS, OUTPUTS AND INTERFACING DEVICES TO MEET THE CONTROL INTENT.
3. THE SYSTEM WILL ENABLE COMPLIANCE WITH THE ADOPTED ENERGY CODE, IECC-2018.
4. VERIFY BUTTON TEXT WITH OWNER.
5. REFER TO LIGHTING CONTROL SYSTEM SCHEDULES ON THIS DWG FOR SCENES, ZONES AND QUANTITIES OF CONTROL STATIONS.

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SHEET NAME:
ELECTRICAL
LIGHTING FIXTURE AND CONTROL SCHEDULES

DATE:
09/16/2022
CONSTRUCTION DOCUMENTS

E-8

ELECTRICAL PANEL SCHEDULE (NEW) — PANEL A

VOLTAGE: 208/120V, 3PH, 4W | MAIN BUS RATING: 100A
KAIC: 10 | MAINS: 100A MLO
NEUT. BUS: X
MOUNTING: SURFACE | GROUND BUS: X
LOCATION: OFFICE | ISOL .GRD. BUS:

CKT	TR	P	KN	DESCRIPTION	A	B	C	A	B	C	DESCRIPTION	KN	TR	P	CKT
1	20	1		LTG - OFFICE WING, EF-1, EF-2	1095			1415			CU-1 / TU-1		20	2	2
3	20	1	1	FACP		600			1415						4
5	20	1		RECEP - T/C BACKBD			360			1165	CU-2 / TU-2		20	2	6
7	20	1		RECEP - T/C BACKBD	360			1165							8
9	20	1		RECEP - RM 106, 108		360			1750		EWH-1		30	2	10
11	20	1		RECEP - RM 107 PANTRY			180			1750					12
13	20	1		RECEP - RM 107 PANTRY	180						SPACE				14
15	20	1	2	RECEP - RM 107 REFRIG		1200					SPACE				16
17	20	1		RECEP - RM 107			540				SPACE				18
19	20	1		COPIER	1000						SPACE				20
21	20	1		RECEP - RM 100		360					SPACE				22
23	20	1		RECEP - RM 104, 105			1080				SPACE				24
25	20	1		RECEP - RM 101, 102	1080						SPACE				26
27	20	1		RECEP - ROOF		360					SPACE				28
29	20	1		SPARE							SPACE				30
31	20	1		SPARE							SPACE				32
33	20	1		SPARE							SPACE				34
35	20	1		SPARE							SPACE				36

TOTAL KVA A 6.3 | TOTAL KVA 17.4
TOTAL KVA B 6.0 | TOTAL AMPS 48
TOTAL KVA C 5.1

PANEL KEYED NOTES:
1. PROVIDE LOCKABLE HANDLE HASP
2. PROVIDE GFCI CIRCUIT BREAKER

ELECTRICAL PANEL SCHEDULE (NEW) — PANEL MDP

VOLTAGE: 208/120V, 3PH, 4W | MAIN BUS RATING: 400A
KAIC: 35 NOTE 1 | MAINS: 400A MCB
SE RATED | NEUT. BUS: X
MOUNTING: SURFACE | GROUND BUS: X
LOCATION: WAREHOUSE 110 | ISOL .GRD. BUS:

CKT	TR	P	KN	DESCRIPTION	A	B	C	A	B	C	DESCRIPTION	KN	TR	P	CKT
1					4035			6300							2
3	50	3		RTU-2		4035			6000		PANEL A		100	3	4
5							4035			5100					6
7					3600			9400							8
9	40	3		CB-1		3600			8800		(E) PANEL B		225	3	10
11							3600			6700					12
13					7200			1000			CB-1 LTG, DOOR HTR		20	1	14
15	80	3		CB-2		7200			1000		CB-2 LTG, DOOR HTR		20	1	16
17							7200			1350	LTG - RM 109, 110		20	1	18
19					2400			125			LTG - BLDG FAÇADE		20	1	20
21	30	3		DOCK LEVELLER		2400			480		RECEP - RM 109, UH-1	2	20	1	22
23							2400			540	RECEP - RM 110	2	20	1	24
25				SPACE							SPARE		20	1	26
27				SPACE							SPARE		20	1	28
29				SPACE							SPARE		20	1	30
31				SPACE							SPACE				32
33				SPACE							SPACE				34
35				SPACE							SPACE				36

TOTAL KVA A 34.1 | TOTAL KVA 98.5
TOTAL KVA B 33.5 | TOTAL AMPS 273
TOTAL KVA C 30.9

PANEL KEYED NOTES:
1. CONFIRM AVAILABLE FAULT CURRENT WITH UTILITY.
2. PROVIDE GFCI CIRCUIT BREAKER.

DEMAND FACTORS
LTG = 100%
RECEP = 100% // 50%
MECH = 85%

DEMAND KVA 84.5
DEMAND AMPS 235

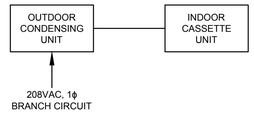
ELECTRICAL PANEL SCHEDULE (EXISTING) — PANEL B

VOLTAGE: 208/120V, 3PH, 4W | MAIN BUS RATING: 400A
KAIC: 10 | MAINS: 400A MLO
NEUT. BUS: X
MOUNTING: SURFACE | GROUND BUS: X
LOCATION: WAREHOUSE 113 | ISOL .GRD. BUS:

CKT	TR	P	KN	DESCRIPTION	A	B	C	A	B	C	DESCRIPTION	KN	TR	P	CKT
1	20	2		COMPACTOR	1145			975			LTG - WAREHOUSE 113		20	1	2
3						1145			900		LTG - WAREHOUSE 113		20	1	4
5	20	2		(E) LOAD							SPACE				6
7								540			RECEP - ROOF		20	1	8
9	40	2		(E) LOAD							(E) LOAD		20	1	10
11										2710					12
13								2710			FORKLIFT CHARGER		30	3	14
15	100	3		(E) LOAD					2710						16
17											SPACE				18
19															20
21	100	3		(E) LOAD							(E) LOAD		100	3	22
23															24
25											(E) LOAD		20	1	26
27	100	3		(E) PANEL C							(E) LOAD		15	1	28
29											SPACE				30
31											SPACE				32
33	100	3		(E) PANEL D					4035						34
35										4035	RTU-1		50	3	36
37								4035							38
39	100	3		(E) LOAD							(E) LOAD		100	2	40
41															42

TOTAL KVA A 9.4 | TOTAL KVA 24.9
TOTAL KVA B 8.8 | TOTAL AMPS 69
TOTAL KVA C 6.7

PANEL GENERAL NOTES:
1. TRACE BRANCH CIRCUITS PRIOR TO DEMOLITION.
2. REUSE CIRCUITS MADE AVAILABLE DURING DEMOLITION.
3. TAG UNUSED CIRCUIT BREAKERS AS SPARE.



1 / E-9 VRF POWER DISTRIBUTION BLOCK DIAGRAM
SCALE: NONE

DETAIL NOTES:
1. DETAIL IS TYPICAL AND APPLIES TO POWER DISTRIBUTION BETWEEN VRF EQUIPMENT. ADDITIONAL CONTROL WIRING WILL BE REQUIRED.
2. INDOOR CASSETTES AND OTHER VRF COMPONENTS ARE POWERED FROM THE OUTDOOR CONDENSING UNIT.
3. EC SHALL PROVIDE 3/4"C FOR INSTALLATION OF WIRING BETWEEN ALL COMPONENTS.
4. EC SHALL PROVIDE CABLE AS RECOMMENDED BY MANUFACTURER. RECOMMENDED CABLE WILL BE CONFIGURED FOR LINE AND LOW VOLTAGE.

ELECTRICAL CONNECTION SCHEDULE

MECHANICAL EQUIPMENT			ELECTRICAL CHARACTERISTICS						LOCAL DISCONNECT DEVICE - NOTE 1					STARTER										
									UNFUSED SWITCH	FUSED SWITCH	MANUAL MOTOR SWITCH					COMBINATION			ACCESSORIES					
TAG	SERVICE	CONTROL APPROACH	V/PH/HZ	MCA	MOCP	FLA	KW	HP		SW/FU	OL	W/O OL	DIV	TYPE	SIZE	SW/ UNFU	SW/ FUSE	MCP	HOA	PILOT	DIV	WIRE & CONDUIT	CIRCUITING
RTU-1	WAREHOUSE 113	AUTO TEMP CTRL	208/3/60	42.0	50	33.6				60A/50A/3P			26									3 #8 + #10G IN 1"C	B-34
RTU-2	WAREHOUSE 110	AUTO TEMP CTRL	208/3/60	42.0	50	33.6				60A/50A/3P			26									3 #8 + #10G IN 1"C	MDP-1
CU-1	TU-1	SPC - AUTO TEMP CTRL	208/1/60	17.0	20	13.6				30A/20A/2P			26									2 #12 + #12G IN 3/4"C	A-2
TU-1	OFFICES	SPC - AUTO TEMP CTRL	208/1/60																			PER MFR	NOTE 2
CU-2	TU-2	SPC - AUTO TEMP CTRL	208/1/60	14.0	20	11.2				30A/20A/2P			26									2 #12 + #12G IN 3/4"C	A-6
TU-2	CONF RM	SPC - AUTO TEMP CTRL	208/1/60																			PER MFR	NOTE 2
CB-1	EVAP-1	SPC - AUTO TEMP CTRL	208/3/60	37.5	40	30.0				60A/40A/3P			26									3 #8 + #10G IN 1"C	MDP-7
EVAP-1	MED-TEMP COLD BOX	SPC - AUTO TEMP CTRL	208/3/60						60A/3P				26									3 #8 + #10G IN 1"C	FED FROM CB-1
CB-2	EVAP-2	SPC - AUTO TEMP CTRL	208/3/60	75.0	80	60.0				100A/80A/3P			26									3 #4 + #8G IN 1-1/4"C	MDP-13
EVAP-2	LOW-TEMP COLD BOX	SPC - AUTO TEMP CTRL	208/3/60						100A/3P				26									3 #4 + #8G IN 1-1/4"C	FED FROM CB-2
EF-1	RESTRM	AUTO OCCUPANCY	120/1/60	1.3	15	1.0		FRAC														2 #12 + #12G IN 3/4"C	A-1
EF-2	RESTRM	AUTO OCCUPANCY	120/1/60	1.3	15	1.0		FRAC														2 #12 + #12G IN 3/4"C	A-1
UH-1	LOADING DOCK	AUTO TEMP CTRL	120/1/60	1.3	15	1.0		FRAC				1HP/1P	26									2 #12 + #12G IN 3/4"C	MDP-22
EWH-1	UTILITY CLO	AUTO TEMP CTRL	208/1/60	21.0	30	16.8	3.5		30A/2P				26									2 #10 + #10G IN 3/4"C	A-10

NOTES:
1. PROVIDE DISCONNECT DEVICE WITH NEMA 3R ENCLOSURE WHERE LOCATED OUTDOORS.
2. REFER TO DETAIL 1/E-9 FOR FURTHER INFORMATION REGARDING WIRING OF THE VRF SYSTEM.

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NO.	REVISION	DATE

SHEET NAME:
ELECTRICAL SCHEDULES

DATE: 09/16/2022
CONSTRUCTION DOCUMENTS

E-9

GENERAL REQUIREMENTS

1. EXAMINE JOB SITE AND VERIFY ALL SITE CONDITIONS PRIOR TO STARTING WORK. BRING ANY DISCREPANCY BETWEEN THE CONTRACT DOCUMENTS AND THE ACTUAL FIELD CONDITIONS TO THE ATTENTION OF THE ARCHITECT.

2. THE DRAWINGS ARE DIAGRAMMATIC. COORDINATE IN THE FIELD, WITH THE ARCHITECT AND WITH ALL TRADES, THE EXACT LOCATION OF EQUIPMENT, FIXTURES, VALVES, THERMOSTATS, ETC. AND ROUTING OF PIPING, DUCTWORK, CONDUIT, ETC.

3. ARRANGE FOR PIPE SPACES, CHASES, SLOTS, AND OPENINGS IN BUILDING STRUCTURE DURING PROGRESS OF CONSTRUCTION, TO ALLOW FOR MECHANICAL INSTALLATIONS.

4. COORDINATE INSTALLATION OF REQUIRED SUPPORTING DEVICES AND SET SLEEVES IN POURED-IN-PLACE CONCRETE AND OTHER STRUCTURAL COMPONENTS AS THEY ARE CONSTRUCTED.

5. COORDINATE REQUIREMENTS FOR ACCESS PANELS AND DOORS FOR PLUMBING ITEMS REQUIRING ACCESS THAT ARE CONCEALED BEHIND FINISHED SURFACES.

6. PERFORM WORK IN ACCORDANCE WITH RULES, REGULATIONS, STANDARDS, CODES, ORDINANCES, AND LAWS OF LOCAL, STATE, AND FEDERAL GOVERNMENTS, AND OTHER AUTHORITIES HAVING JURISDICTION AND BE RESPONSIBLE FOR COMPLIANCE THEREWITH.

7. GUARANTEE ALL SYSTEMS AND WORK FOR A PERIOD OF ONE (1) YEAR FROM DATE OF FINAL ACCEPTANCE.

8. ALL MATERIALS SHALL BE NEW AND OF COMMERCIAL GRADE AND BEAR THE UNDERWRITER'S LABEL WHERE APPLICABLE.

9. LOCATE ALL EXISTING UTILITIES AND MAKE SERVICEABLE CONNECTIONS TO SAME.

10. OBTAIN APPROVAL FROM THE BUILDING OWNER'S REPRESENTATIVE PRIOR TO ANY INTERRUPTION OF BUILDING SYSTEMS. COORDINATE ACCEPTABLE WORKING HOURS WITH SAME.

11. ALL CUTTING AND PATCHING IS BY RESPECTIVE CONTRACTORS. CORE DRILL OR SAW CUT ALL MASONRY AND RESTORE ALL SURFACES TO ORIGINAL CONDITION.

12. CUT, FIT, AND PLACE MISCELLANEOUS METAL SUPPORTS ACCURATELY IN LOCATION, ALIGNMENT, AND ELEVATION TO SUPPORT AND ANCHOR MECHANICAL MATERIALS AND EQUIPMENT.

13. BEFORE ORDERING ANY MATERIAL OR DOING ANY WORK, THE MECHANICAL CONTRACTOR SHALL CHECK AND VERIFY ALL MEASUREMENTS, INCLUDING LINES, GRADES, PIPE AND DUCT ELEVATIONS AT THE BUILDING AND SHALL BE RESPONSIBLE FOR THE CORRECTNESS OF SAME.

14. "PROVIDE" SHALL MEAN FURNISH AND INSTALL, MAKE ALL FINAL CONNECTIONS AND LEAVE IN AN APPROVED OPERATING CONDITION.

15. "PLUMBING WORK" OR "WORK" SHALL MEAN ALL LABOR, TRANSPORTATION, MATERIAL, EQUIPMENT, SCAFFOLDING, RIGGING, TOOLS, INSTALLATION, SUPERVISION, SERVICES, AND ANY OTHER INCIDENTAL ITEMS OR SERVICES NECESSARY FOR A COMPLETE AND OPERABLE INSTALLATION.

16. INTENT

    a. IT IS THE INTENT OF THE DRAWINGS AND SPECIFICATIONS THAT ALL WORK, EQUIPMENT, APPURTENANCES, CONTROLS AND WIRING BE FURNISHED AND INSTALLED TESTED, COMPLETED AND READY FOR OPERATION.

    b. ANY INCIDENTAL ACCESSORIES NECESSARY TO MAKE THE WORK COMPLETE AND FUNCTIONAL IN ALL RESPECTS AND READY FOR OPERATION, EVEN IF NOT EXPLICITLY SPECIFIED OR SHOWN, SHALL BE PROVIDED WITHOUT ADDITIONAL EXPENSE. MINOR DETAILS NOT USUALLY SHOWN OR SPECIFIED, BUT MANIFESTLY REQUIRED FOR THE PROPER INSTALLATION AND OPERATION OF THE VARIOUS SYSTEMS, SHALL BE INCLUDED IN THE WORK, THE SAME AS IF SPECIFIED OR SHOWN ON THE DRAWINGS.

    c. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ASSURING THAT THE PROPOSED SYSTEMS CAN BE INSTALLED AS REQUIRED FROM THE DRAWINGS AND SPECIFICATIONS. IF ANY DEPARTURES FROM THE DRAWINGS AND SPECIFICATIONS ARE DEEMED NECESSARY BY THE CONTRACTOR, DETAILS OF SUCH DEPARTURES AND CLEAR JUSTIFICATION SHALL BE SUBMITTED TO THE OWNER FOR APPROVAL. NO SUCH DEPARTURES SHALL BE MADE WITHOUT THE PRIOR WRITTEN APPROVAL OF THE OWNER.

17. DRAWINGS

    a. DRAWINGS ARE DIAGRAMMATIC, SMALL SCALE AND INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED AS IT IS NOT POSSIBLE TO INDICATE ALL OFFSETS, BENDS, FITTINGS AND ACCESS PANELS REQUIRED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL SUCH APPURTENANCES AND DEVICES REQUIRED FOR A COMPLETE AND FUNCTIONAL SYSTEM WHETHER OR NOT THE APPURTENANCE OR DEVICE IS SHOWN ON THE DRAWINGS. DRAWINGS ARE NOT TO BE SCALED.

    b. CONSULT THE ARCHITECTURAL AND MECHANICAL DRAWINGS FOR EXACT LOCATION OF FIXTURES AND EQUIPMENT. WHERE SAME ARE NOT DEFINITELY LOCATED, OBTAIN THIS INFORMATION FROM THE OWNER.

PLUMBING LEGEND

ABBREVIATIONS

AAV	AIR ADMITTANCE VALVE
ABV	ABOVE
AD	AREA DRAIN
AP	ACCESS PANEL
BFP	BACKFLOW PREVENTER
BLW	BELOW
BT	BATH TUB
CLG	CEILING
CO	CLEAN OUT
CONT	CONTINUED
COTG	CLEAN OUT TO GRADE
CW	DOMESTIC COLD WATER
DF	DRINKING FOUNTAIN
DFU	DRAINAGE FIXTURE UNITS
DN	DOWN
DW	DISHWASHER
(E)	EXISTING TO REMAIN
EC	ELECTRICAL CONTRACTOR
EW	EMERGENCY EYEWASH
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
EX	EXISTING
FAI	FRESH AIR INLET
FCO	FLOOR CLEAN OUT
FD	FLOOR DRAIN
FS	FLOOR SINK
FW	FILTERED WATER
G	GAS
GC	GENERAL CONTRACTOR
GW	GREASE WASTE
GWH	GAS WATER HEATER
HB	HOSE BIBB
HW	DOMESTIC HOT WATER
HWR	DOMESTIC HOT WATER RETURN
HY	HYDRANT
INV	INVERT
IW	INDIRECT WASTE
IWH	INSTANTANEOUS WATER HEATER
JS	JANITOR SINK
L	LAVATORY
LT	LAUNDRY TUB
MAX	MAXIMUM
MC	MECHANICAL CONTRACTOR
MH	MAN HOLE
MIN	MINIMUM
MR	MOP RECEPTOR
(N)	NEW WORK
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
P	PUMP
PC	PLUMBING CONTRACTOR
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
(R)	EXISTING TO BE REMOVED
RD	ROOF DRAIN
(RL)	EXISTING TO BE RELOCATED
RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
RPM	REVOLUTIONS PER MINUTE
RWC	RAIN WATER CONDUCTOR
s=02"	SLOPE
S	SINK
SA	SHOCK ABSORBER W/ ACCESS PANEL
SAN	SANITARY
SFU	SUPPLY FIXTURE UNITS
SH	SHOWER
SS	SOIL STACK
ST	STORM DRAINAGE PIPING
TP	TRAP PRIMER
TYP	TYPICAL
U	URINAL
V	VENT PIPING
VFD	VARIABLE FREQUENCY DRIVE
VIF	VERIFY IN FIELD
VTR	VENT THRU ROOF
W	DIRECT WASTE
WB	WASHER BOX
WC	WATER CLOSET
WCO	WALL CLEAN OUT
( )	WATER SUPPLY FIXTURE UNIT - HOT
[ ]	WATER SUPPLY FIXTURE UNIT - COLD
{ }	WATER SUPPLY FIXTURE UNIT - TOTAL

SYMBOLS

EXISTING SANITARY TO REMAIN
EXISTING VENT TO REMAIN
EXISTING TO BE REMOVED
NEW SANITARY PIPE
NEW VENT PIPE
DOMESTIC COLD WATER
DOMESTIC HOT WATER
DOMESTIC HOT WATER RETURN
DIAMETER
CONNECT NEW TO EXISTING
CUT AND CAP
(E) EXISTING TO REMAIN
(R) EXISTING TO BE REMOVED
(RL) EXISTING TO BE RELOCATED
METER
GAS METER
PIPE UP
PIPE DOWN
PIPE DROP
GAS PRESSURE REGULATOR
UNION
REDUCER
FIXTURE SHUTOFF VALVE

CAP
BALL-TYPE SHUTOFF VALVE
BUTTERFLY VALVE (B)
GATE VALVE
BALANCING VALVE
PRESSURE RELIEF VALVE
CHECK VALVE
REDUCED PRESSURE BACKFLOW PREVENTOR
NATURAL GAS COCK
VERTICAL VALVE
SHOCK ABSORBER W/ ACCESS PANEL
THERMOMETER
PRESSURE GAGE W/ BALL VALVE
HOSE BIBB
WALL CLEAN OUT
FLOOR DRAIN/TRAP
TRAP
FUNNEL DRAIN
FLOOR SINK
G NATURAL GAS CONNECTION

PLUMBING FIXTURE TAG
X — FIXTURE TYPE
X — FIXTURE NUMBER

RISER TAG
X — RISER TYPE
XX — RISER NUMBER

DRAWING SCHEDULE

DRAWING NUMBER	DRAWING TITLE	ISSUE: 100% CDs
		DATE: 09/16/2022
P-0	PLUMBING COVER SHEET	●
P-1	PLUMBING DEMOLITION PLAN - GROUND FLOOR	●
P-2	PLUMBING NEW WORK PLAN - GROUND FLOOR - SANITARY	●
P-3	PLUMBING NEW WORK PLAN - GROUND FLOOR - DOMESTIC	●
P-9	PLUMBING SCHEDULES AND DETAILS	●

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SEAL:

NO.	REVISION	DATE

SHEET NAME:
PLUMBING
COVER SHEET

DATE: 09/16/2022
CONSTRUCTION DOCUMENTS

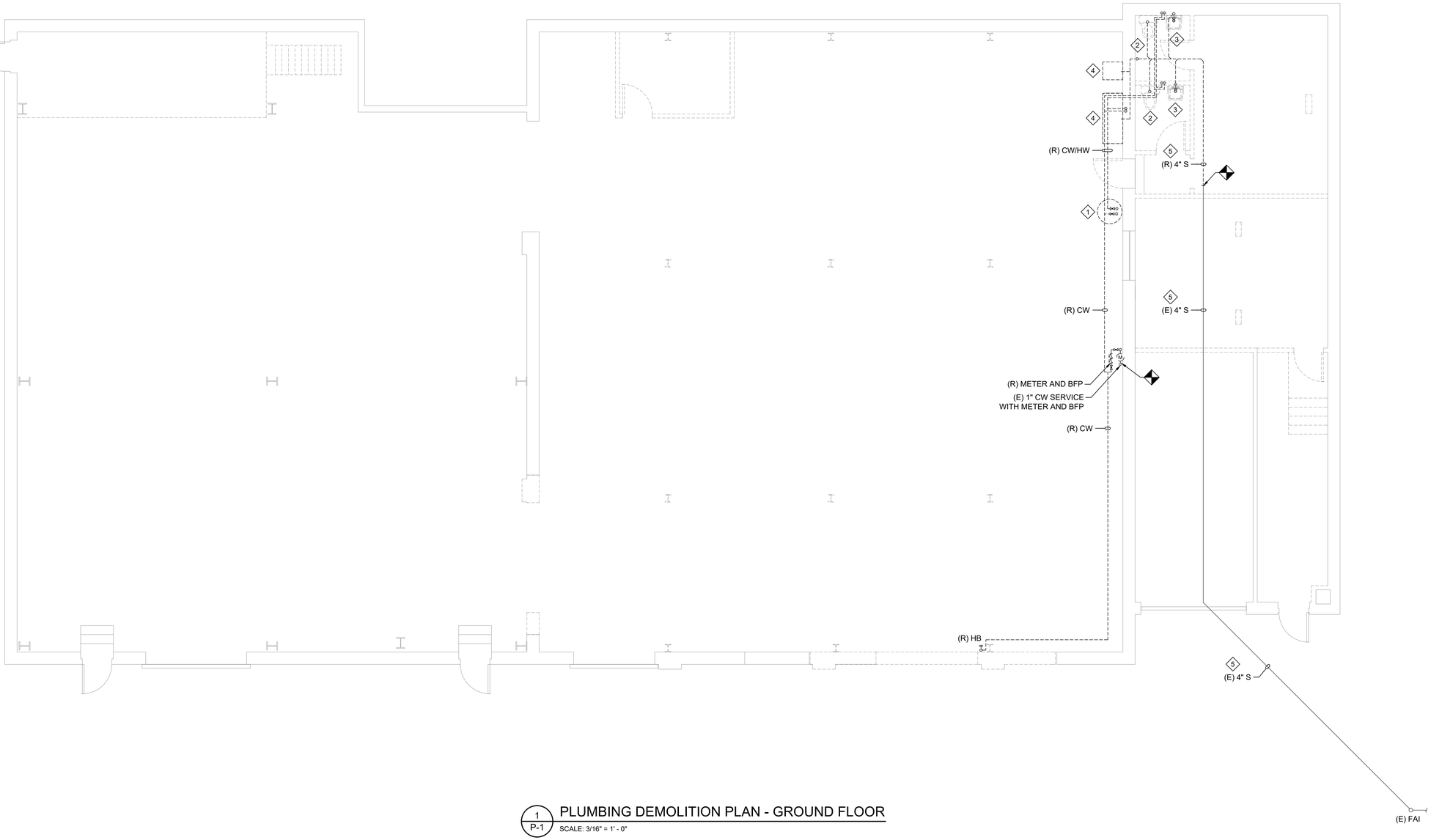
P-0

GENERAL DEMOLITION NOTES

1. ALL COMPONENTS SHOWN TO BE DEMOLISHED SHALL BE COMPLETELY REMOVED FROM THE BUILDING IN ITS ENTIRETY AND DISPOSED OF BY THE CONTRACTOR.

KEYED DEMOLITION NOTES

1. REMOVE ELECTRIC WATER HEATER AND ALL ASSOCIATED PIPING.
2. REMOVE WATER CLOSET AND ALL ASSOCIATED PIPING.
3. REMOVE LAVATORY SINK AND ALL ASSOCIATED PIPING.
4. REMOVE SINK AND ALL ASSOCIATED PIPING.
5. THE LOCATION OF THIS BELOW SLAB SANITARY PIPING IS ASSUMED BASED ONLY ON LOCATIONS OF VISIBLE SANITARY PIPING. EXISTING UNDERGROUND DRAWINGS ARE NOT AVAILABLE. PRIOR TO THE START OF CONSTRUCTION, PC SHALL SCOPE AND CAMERA EXISTING SANITARY LINE TO DETERMINE LOCATION, SIZE, AND DEPTH OF EXISTING SANITARY PIPING. SCOPE AND CAMERA REPORT, SHOWING ACTUAL ROUTING AND SIZE, TO BE SUBMITTED TO ENGINEER FOR REVIEW IF IT VARIES FROM WHAT IS SHOWN ON THE DRAWINGS.



1 / P-1 PLUMBING DEMOLITION PLAN - GROUND FLOOR
SCALE: 3/16" = 1' - 0"

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NO.	REVISION	DATE

SHEET NAME:
PLUMBING DEMOLITION PLAN - GROUND FLOOR

DATE: 09/16/2022
CONSTRUCTION DOCUMENTS

P-1

1 P-2 PLUMBING NEW WORK PLAN - GROUND FLOOR - SANITARY

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

GENERAL NEW WORK NOTES:

1. ALL DOMESTIC WATER PIPING SHALL BE INSULATED.
2. PROVIDE STOP VALVES TO ALL PLUMBING FIXTURES.
3. SANITARY PIPING 3" AND SMALLER SHALL BE INSTALLED AT A FALL NOT LESS THAN 1/4" PER 1'-0". SANITARY PIPING LARGER THAN 3" SHALL BE INSTALLED AT A FALL NOT LESS THAN 1/8" PER 1'-0".
4. REFER TO RISER DIAGRAM FOR RUN OUT PIPE SIZES TO EACH FIXTURE.
5. PROVIDE PROVENT TRAPGURARDS (OR EQUIVALENT) ON ALL FLOOR DRAINS AND FLOOR SINKS.

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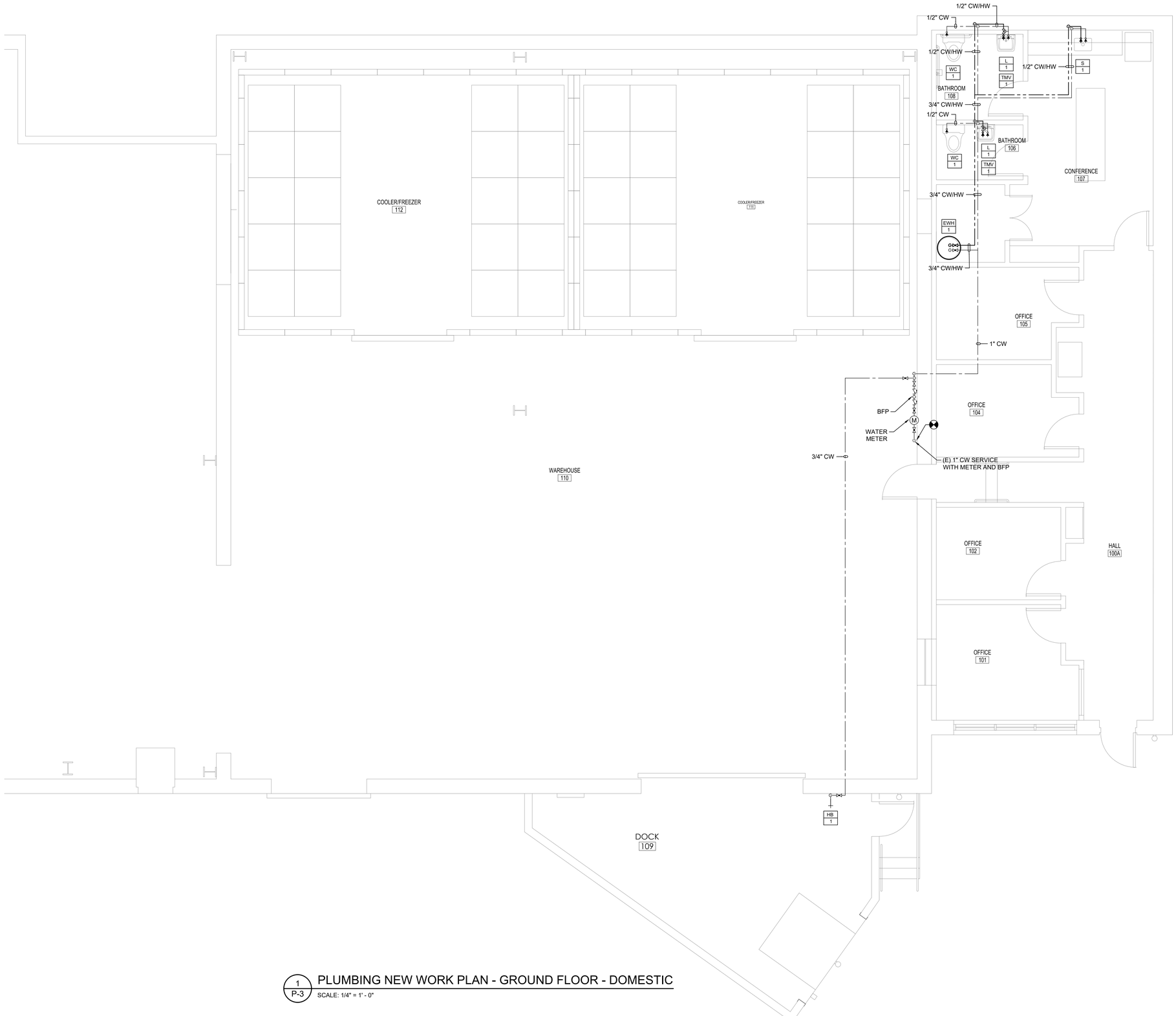
SEAL:

NO.	REVISION	DATE

SHEET NAME:
PLUMBING NEW WORK PLAN - GROUND FLOOR - SANITARY

DATE:
09/16/2022
CONSTRUCTION DOCUMENTS

P-2



1 P-3 PLUMBING NEW WORK PLAN - GROUND FLOOR - DOMESTIC

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

GENERAL NEW WORK NOTES:

1. ALL DOMESTIC WATER PIPING SHALL BE INSULATED.
2. PROVIDE STOP VALVES TO ALL PLUMBING FIXTURES.
3. SANITARY PIPING 3" AND SMALLER SHALL BE INSTALLED AT A FALL NOT LESS THAN 1/4" PER 1'-0". SANITARY PIPING LARGER THAN 3" SHALL BE INSTALLED AT A FALL NOT LESS THAN 1/8" PER 1'-0".
4. REFER TO RISER DIAGRAM FOR RUN OUT PIPE SIZES TO EACH FIXTURE.
5. PROVIDE PROVENT TRAPGURARDS (OR EQUIVALENT) ON ALL FLOOR DRAINS AND FLOOR SINKS.

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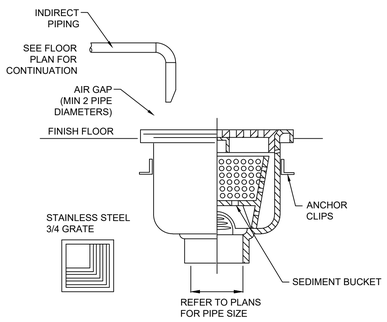
SEAL:

NO.	REVISION	DATE

SHEET NAME:
PLUMBING NEW WORK PLAN - GROUND FLOOR - DOMESTIC

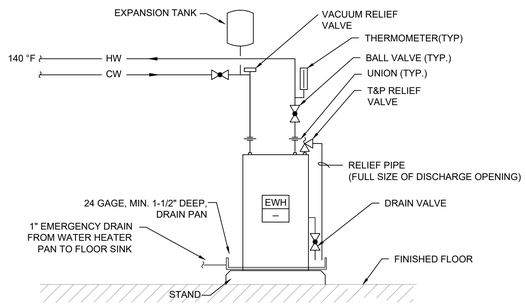
DATE:
09/16/2022
CONSTRUCTION DOCUMENTS

P-3



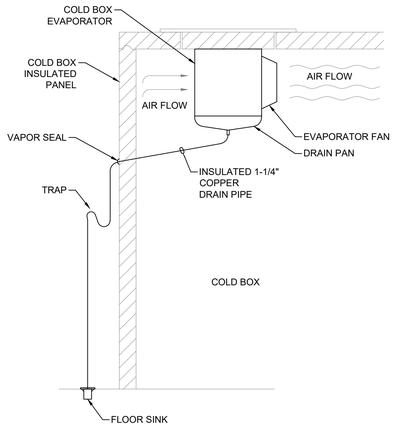
2 P-9 FLOOR SINK DETAIL

SCALE: NONE



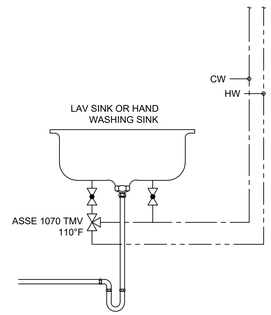
1 P-9 ELECTRIC DOMESTIC WATER HEATER SCHEMATIC

SCALE: NTS



4 P-9 WALKIN COOLER DRAIN DETAIL

SCALE: NONE



3 P-9 THERMOSTATIC MIXING VALVE DETAIL

SCALE: NONE

PLUMBING SPECIALTIES SCHEDULE

TAG	FIXTURE	BASIS OF DESIGN MANUFACTURER AND MODEL	BODY MATERIAL	COLOR/FINISH	OVERALL SIZE	ACCESSORIES AND REMARKS	OPTIONS
FS-1	FLOOR SINK	J.R. SMITH MODEL 3101	CAST-IRON	NICKEL BRONZE GRATE	8-1/2" SQUARE	SQUARE CAST IRON RECEPTOR WITH A CID RESISTANT COATED INTERIOR AND NICKEL BRONZE RIM AND SECURED GRATE. SEDIMENT BUCKET	PROSET TRAP GUARD VANDAL PROOF SCREWS
WCO	WALL CLEANOUT	J.R. SMITH MODEL 4422	CAST-IRON	STAINLESS STEEL	5-1/2" COVER	ROUND, CAST-BRONZE TAPER THREAD PLUG, HUB AND SPIGOT OR HUBLESS, TEE FITTING COMPATIBLE WITH PIPING	VANDAL PROOF SCREWS
HB-1	INTERIOR HOSE BIBB	WATTS MODEL SC8	NICKEL BRONZE	NICKEL BRONZE PLATED		3/4" CONNECTION, VACUUM BREAKER	
TMV-1	THERMOSTATIC MIXING VALVE	POWERS MODEL LFE480	CAST BRASS	CAST BRASS		SCALD PROTECTION VALVE WITH TAMPER RESISTANT ADJUSTABLE TEMPERATURE SELECTION AND INTEGRAL CHECK STOPS AND SCREENS	0.5-4.0 GPM OPERATING RANGE

PLUMBING FIXTURE SCHEDULE

TAG	FIXTURE	BASIS OF DESIGN MANUFACTURER AND MODEL	MOUNTING AND OUTLET	FAUCETS, FITTINGS AND ACCESSORIES	FIXTURE CONNECTION (INCHES)			
					CW	HW	SAN	VENT
WC-1	ADA FLOOR-MOUNTED ELONGATED WATER CLOSET TANK TYPE	TBD BY ARCHITECT	FLOOR MOUNTED FLOOR-OUTLET	1. TANK TYPE: COMPLETE WITH COUPLING COMPONENTS AND TANK TRIM. 2. SUPPLY KITS: "MC GUIRE" MODEL 172 LK 1/2"COPPER SWEAT x 3/8"OD 3. SEATS: "OLSONITE" , "BEMIS" OR "CHURCH" OPEN FRONT, LESS COVER, COMMERCIAL GRADE W/CHECK HINGE.	1/2"	-	4"	2"
L-1	LAVATORY	TBD BY ARCHITECT	WALL MOUNTED ADA	1. FAUCET: TBD BY ARCHITECT 2. DRAIN: GRID TYPE, POLISHED CHROME, VANDAL RESISTANT. 3. TRAP TYPE: "McGUIRE" P-TRAP CHROME PLATED CAST BRASS BODY WITH CLEANOUT AND 17" GAUGE TUBULAR WALL BEND. 4. SUPPLY KITS: "MCGUIRE" MODEL 170 5. CARRIER: J.R	1/2"	1/2"	1-1/2"	1-1/2"
S-1	SINK	TBD BY ARCHITECT	UNDERMOUNT	1. FAUCET: TBD BY ARCHITECT 2. DRAIN: "ELKAY" MODEL LK8 C.P. GRID, POLISHED CHROME, VANDAL RESISTANT 3. TRAP TYPE: "MCGUIRE" 1-1/2"P-TRAP AND TAILPIECE.	3/4"	3/4"	1-1/2"	1-1/2"

PLUMBING PIPE & FITTING SCHEDULE

SYSTEM	PIPE SIZE	LOCATION	MATERIAL	SCHEDULE OR TYPE	FITTING	JOINT	REMARKS
SANITARY	ALL	BELOW GRADE/GROUND	PVC	SCH. 40 PVC	PVC SOCKET TYPE	PVC PRIMER/CEMENT	
	3" AND LARGER	ABOVE GRADE/GROUND	PVC	SCH. 40 PVC	PVC SOCKET TYPE	PVC PRIMER/CEMENT	
	2-1/2" AND SMALLER		PVC	SCH. 40 PVC	PVC SOCKET TYPE	PVC PRIMER/CEMENT	ALL EXPOSED SANITARY PIPING BELOW PLUMBING FIXTURES SHALL BE CHROME PLATED BRASS.
SANITARY VENT	3" AND LARGER	ABOVE GRADE/GROUND	PVC	SCH. 40 PVC	PVC SOCKET TYPE	PVC PRIMER/CEMENT	
	2-1/2" AND SMALLER		PVC	SCH. 40 PVC	PVC SOCKET TYPE	PVC PRIMER/CEMENT	
DOMESTIC COLD WATER	ALL	ABOVE GRADE/GROUND	COPPER	TYPE "L"	WROUGHT COPPER	SOLDERED	95% TIN & 5% ANTIMONY
DOMESTIC HOT WATER	ALL	ABOVE GRADE/GROUND	COPPER	TYPE "L"	WROUGHT COPPER	SOLDERED	95% TIN & 5% ANTIMONY

ELECTRIC DOMESTIC WATER HEATER SCHEDULE

SYMBOL	CAPACITY (GALLONS)	WATER ENT (°F)	WATER LVG (°F)	RECOVERY (90°F RISE) (GAL/HR)	ELEMENT (KW)	ELEMENT CONTROL	V/PH/HZ	BASIS
EWH-1	40	55	140	21	3.5	NON-SIMULTANEOUS	208/1/60	BRADFORD WHITE MODEL RE340T6

PLUMBING PIPE INSULATION SCHEDULE

SERVICE	MANUFACTURER	TYPE	VAPOR BARRIER	INSULATION THICKNESS
DOMESTIC COLD WATER	OWENS CORNING	FIBERGLASS	YES	1"
DOMESTIC HOT WATER	OWENS CORNING	FIBERGLASS	YES	1" : FOR PIPES 1-1/2" AND SMALLER 1-1/2" : FOR PIPES 2" AND ABOVE

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19043

SEAL:

NO.	REVISION	DATE

SHEET NAME:
PLUMBING SCHEDULES AND DETAILS

DATE: 09/16/2022
CONSTRUCTION DOCUMENTS

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