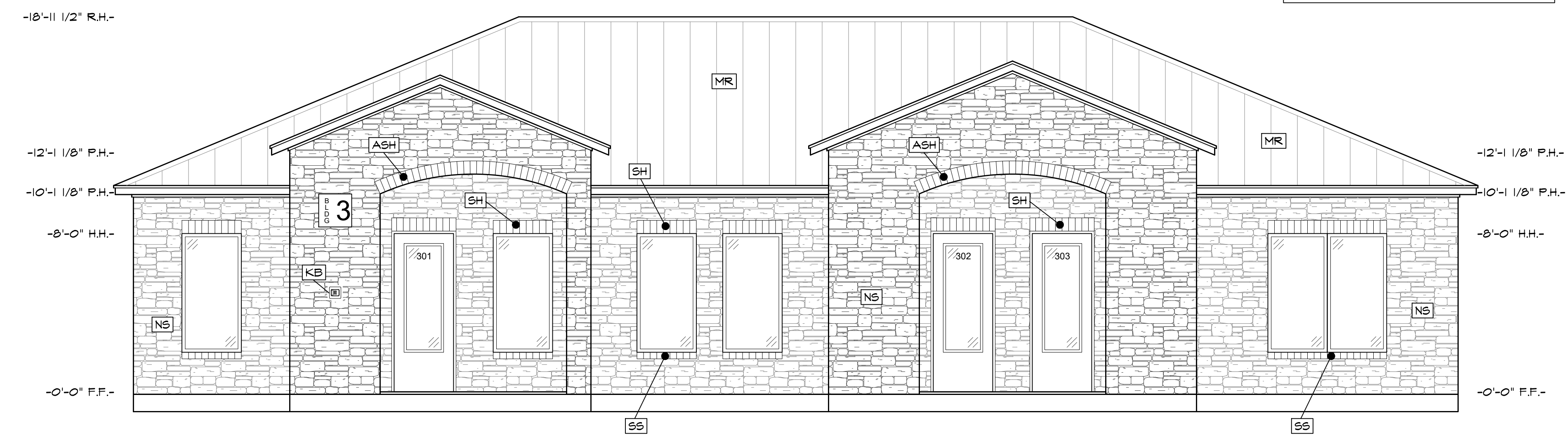


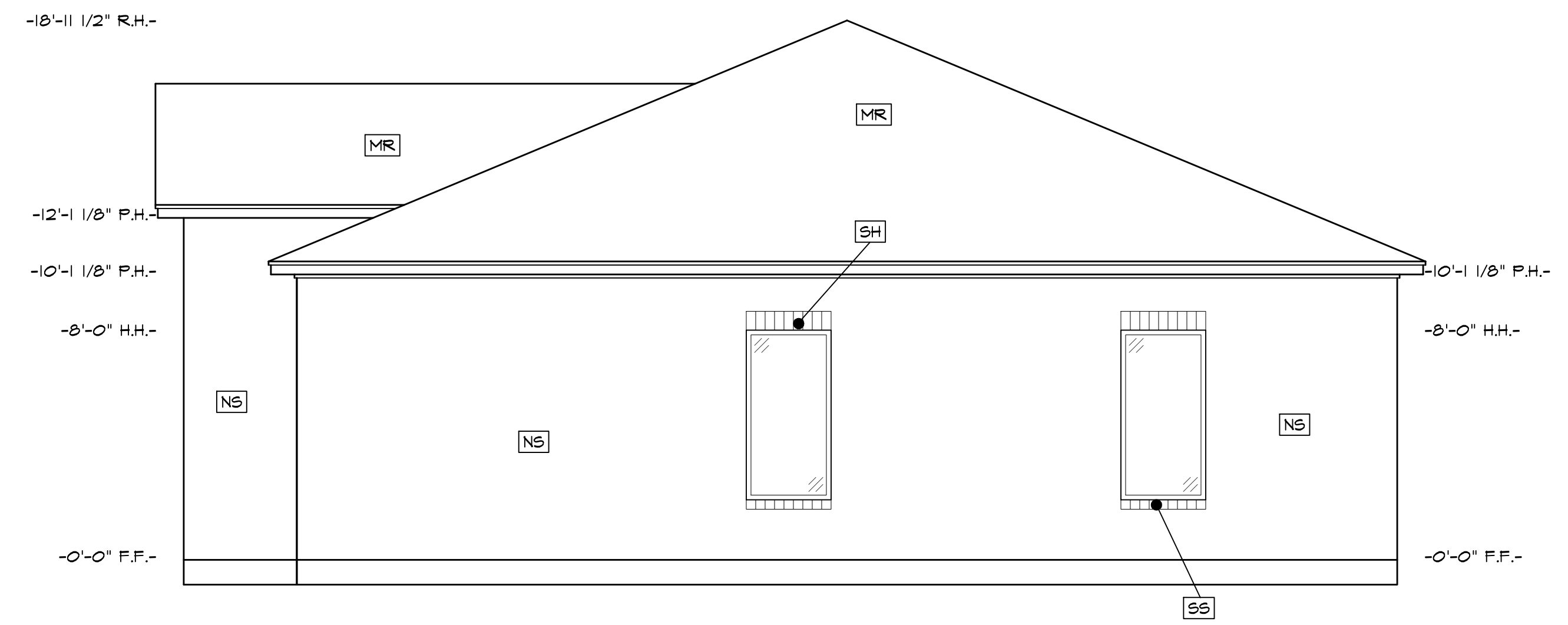
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MATERIAL LEGEND
 NS : NATURAL STONE
 SS : PROJECTED STONE SILL
 SH : PROJECTED STONE HEADER
 ASH : ARCHED PROJECTED STONE HEADER
 MR : STANDING SEAM METAL ROOF
 KB : KNOX BOX



1 FRONT ELEVATION
 A2.1 1/4" = 1'-0"

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2 RIGHT ELEVATION
 A2.1 1/4" = 1'-0"

JCD PROJECT NO

MAYFIELD OFFICE PARK - TYP. 3-UNIT BLDG.
 3835 COUNTY ROAD 175
 LEANDER, TEXAS 78641
 THP DEVELOPMENT, LLC

REVISION HISTORY

1	6/3/22	BANK SET
2		
3		
4		
5		

DATE ISSUED
6/3/2022

EXTERIOR
 ELEVATIONS

A2.1

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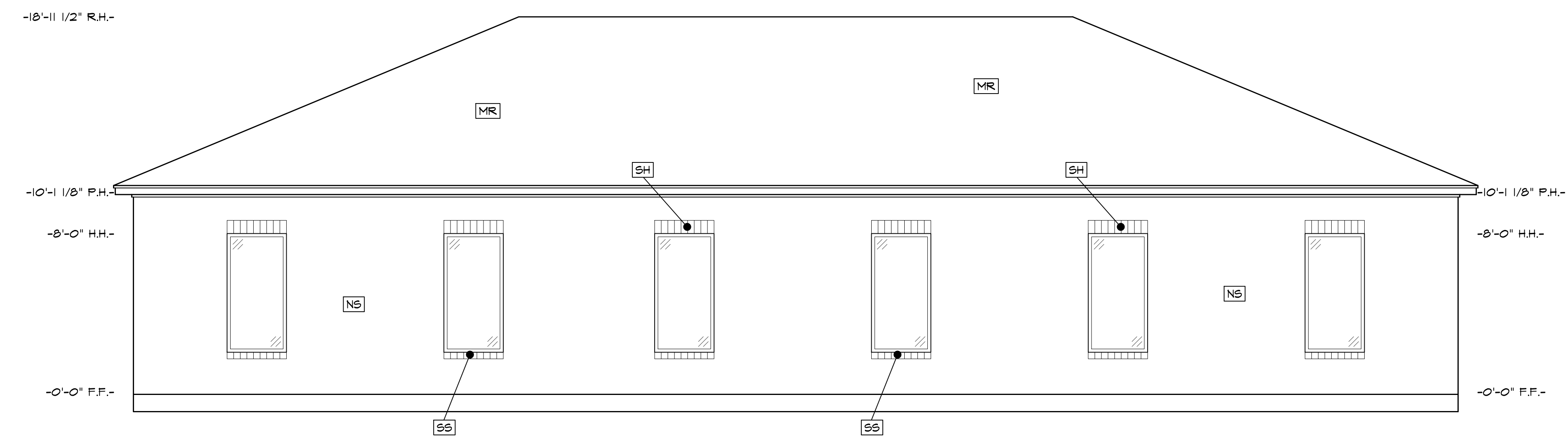
REVISION HISTORY

1	6/3/22	BANK SET
2		
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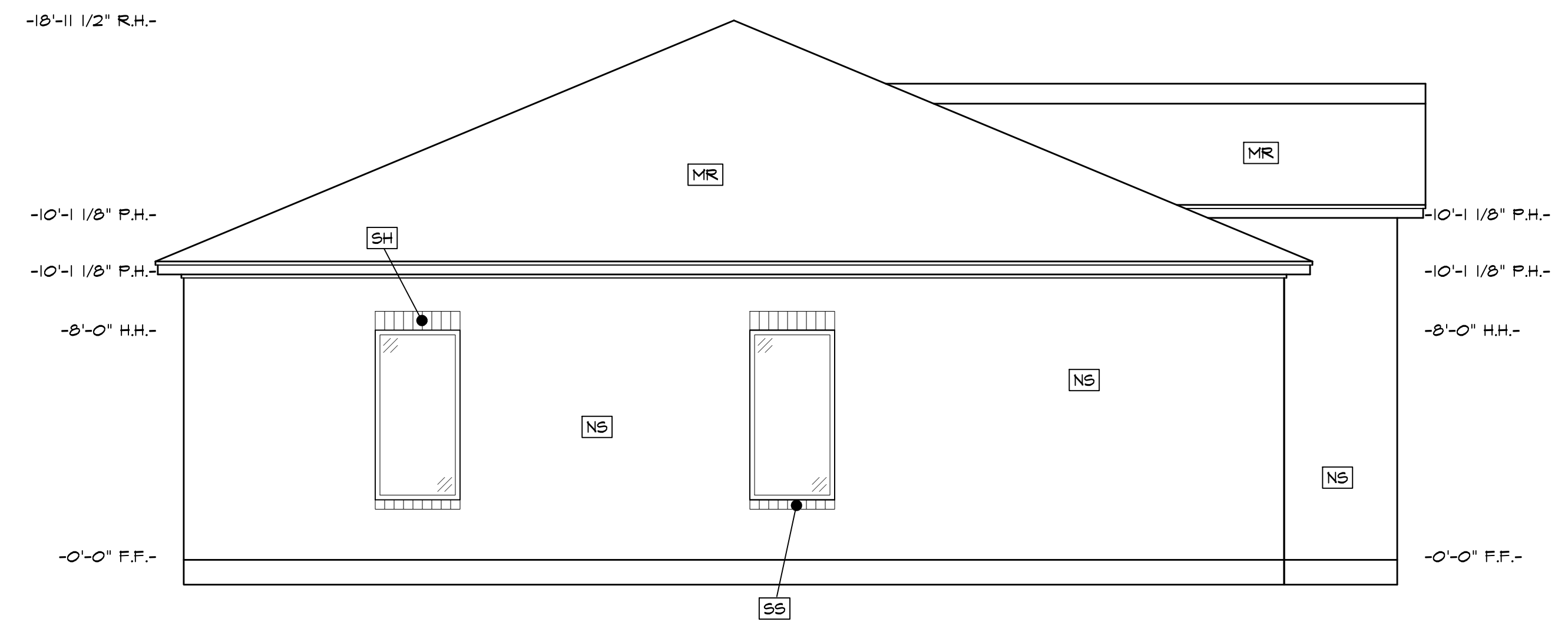
DATE ISSUED
6/3/2022

EXTERIOR ELEVATIONS
 -

A2.2



1 REAR ELEVATION
 A2.2 1/4" = 1'-0"



2 LEFT ELEVATION
 A2.2 1/4" = 1'-0"

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MECHANICAL LEGEND

(NOTE: ALL SYMBOLS SHOWN ARE NOT NECESSARILY USED ON DRAWINGS)

SYMBOL LEGEND		SYMBOL LEGEND	
		DUCTWORK	
		DUCTWORK SIZE, 1st NO. VISIBLE DIMENSION	CIRCUIT SETTER, BALANCING VALVE
		DUCTWORK TURNING	PLUG VALVE
		BRANCH DUCT TAKEOFF	VALVE IN VERTICAL
		DUCT TEE	FIRE CONTROL
		TRANSITION	FIRE SPRINKLER LINE
		FLEXIBLE DUCT	FIRE SUPPLY MAIN
		FLEXIBLE CONNECTION	FIRE DEPARTMENT CONNECTION LINE
		VOLUME DAMPER	FLANGE CONNECTION
		FIRE DAMPER OR SMOKE DAMPER	DROP AT 45° ANGLE
		SUPPLY DUCT, OUTSIDE AIR DUCT SECTION RECTANGULAR, FLAT, OVAL, ROUND	ELBOW TURNING DOWN
		RETURN/EXHAUST/OUTSIDE AIR DUCT SECTION	ELBOW TURNING UP
		SIDEWALL GRILLE OR REGISTER (SUPPLY)	CAPPED PIPE
		SIDEWALL GRILLE OR REGISTER (RETURN OR EXHAUST)	FLEXIBLE CONNECTION
		CEILING GRILLE OR REGISTER (SUPPLY)	CONCENTRIC PIPE REDUCER/INCREASER
		CEILING GRILLE OR REGISTER (EXHAUST & RETURN)	ECCENTRIC PIPE REDUCER/INCREASER
		SMOKE DETECTOR (DIVISION 26)	DIRECTION OF SLOPE (DOWN WARD)
		THERMOSTAT	
		CHANGE IN ELEVATION (R), (F)	
		VALVES	
		TWO-WAY CONTROL VALVE	
		THREE-WAY CONTROL VALVE	
		UNION	
		BUTTERFLY VALVE	
		TEMPERATURE/ PRESSURE RELIEF VALVE	

GENERAL NOTES

- THESE GENERAL NOTES APPLY TO ALL SHEETS
- IN ANY CASE WHERE A PIPE OR DUCT SHOWN ON A PLAN SHEET DIFFERS FROM THAT SHOWN IN A SCHEMATIC OR DETAIL, USE THE LARGER OF THE TWO SIZES SHOWN.
- PIPING SHOWN ON EACH PLAN IS RUN ABOVE THE CEILING ON THE FLOOR WHERE IT IS SHOWN UNLESS OTHERWISE NOTED.
- MOUNT THERMOSTATS 48 INCHES ABOVE FINISHED FLOOR AND CENTERED ABOVE THE LIGHT SWITCHES WHERE BOTH OCCUR IN THE SAME LOCATION, UNLESS OTHERWISE NOTED.
- ALL DUCT DIMENSIONS SHOWN ARE CLEAR AIRSTREAM DIMENSIONS.
- DO NOT RUN AIR HANDLERS OR EXHAUST FANS UNTIL ALL INTERIOR CLEANING AND PAINTING IS COMPLETE. THE CLEANING OF FOULED COILS OR FAN ASSEMBLIES DUE TO PAINT OR CONSTRUCTION DEBRIS WILL BE THE RESPONSIBILITY OF THE HVAC CONTRACTOR.
- ALL REFRIGERANT CIRCUIT SERVICE PORTS LOCATED ON THE EXTERIOR OF THE BUILDING SHALL BE PROVIDED WITH LOCKING ACCESS PORT CAPS.
- NORMAL DESIGN CONDITIONS:

	OUTSIDE	INSIDE
SUMMER:	98 °F db, 78 °F wb	75 °F db, 50% RH
WINTER:	20 °F db	72 °F db

ABBREVIATIONS

B. VA.	BALL VALVE
BAL. VA.	CKT. SETTER BALANCING VALVE
D	CONDENSATE DRAIN LINE
EOD	EMERGENCY OVERFLOW DRAIN
EXT FCO	EXTERIOR FLOOR CLEANOUT
FS	FIRE SPRINKLER
F	FIRE LINE (BUILDING MAIN)
FD (OR) SD	FIRE / SMOKE DAMPER
GT. V	GATE VALVE
GL. V	GLOBE VALVE
MVD	MOTORIZED VOLUME DAMPER
OA, RA, EXH	O.A.,R.A. EXH. AIR DUCT
RED.	REDUCER
TI	TEMP. INDICATOR (THERMOMETER)
T.&P.	TEMP. & PRESS. RELIEF VALVE
VD	VOLUME DAMPER

DIFFUSER & GRILLE SCHEDULE

MARK	CFM RANGE	SUPPLY	RETURN	EXHAUST	TYPE	DIFFUSER CONNECTION SIZE	PATTERN	REMARKS
A	0-50	●			LOUVER FACE CLG. DIFFUSER	6"	4-WAY	TITUS 250-AA, 6" X 6" NOMINAL DUCT SIZE
B	51-150	●				6"		TITUS 250-AA, 10" X 6" NOMINAL DUCT SIZE
C	151-250	●				8"		TITUS 250-AA, 12" X 8" NOMINAL DUCT SIZE
D	251-350	●				10"		TITUS 250-AA, 14" X 10" NOMINAL DUCT SIZE
E	0-1200		●		ALUMINUM EGG CRATE	18" X 18"	-	TITUS 50F WITH 1" FILTER AND ACCESS DOOR, 20/20 FACE
E1	0-500		●		ALUMINUM EGG CRATE	10" X 10"	-	TITUS 50F WITH 1" FILTER AND ACCESS DOOR, 12/12 FACE

FAN SCHEDULE

MARK	SERVICE	TYPE	CFM	EXT. SP IN. H ₂ O	WATTS/VOLTS/PH/Hz	FAN RPM	INTERLOCK WITH	DRIVE TYPE	REMARKS
EF-2-1, 2-2, EF-2-3	TOILET	CEILING MOUNT	83	0.25"	26 / 120/1/60	1100	LIGHT SWITCH	DIRECT	AIR KING AK110PN (1)

(1) PROVIDE WITH BACKDRAFT DAMPER, DISCONNECT SWITCH, MANUAL STARTERS, AND INTEGRAL CEILING GRILL. PROVIDE WEATHERPROOF ROOF DISCHARGE CAP FOR DUCT TERMINATION ON ROOF.

CONDENSING UNIT / INDOOR AIR HANDLING UNIT/COOLING COIL SCHEDULE

CONDENSING UNIT											INDOOR AIR HANDLING UNIT W/ COOLING COIL																
MARK	MIN. CAP. BTUH	REFRIG-ERANT	VOLTS/PH/Hz	MCA	MCB	MIN SEER	COMPRESSOR			REMARKS	MARK	TOTAL AIR CFM	OUTSIDE AIR CFM	EXT. SP. H ₂ O	MOTOR HP. VOLT PHASE & HERTZ	ELECTRICAL		COOLING COIL					HEATING COIL			REMARKS	
							NO.	MAX. SUCT. TEMP °F	MAX. COND. TEMP °F							AMBIENT TEMP °F	MCA	MCB	COIL CFM	MIN. SENS/TOTAL CAPACITY BTUH	REFRIGERANT	EDB °F	EWB °F	KW	CAPACITY BTUH		EDB °F
CU-2-1, CU-2-3	29,400	R-410A	230/1/60	18	25	17.0	1	45	125	105	LENNOX ML17XC1-030	FCU-2-1, FCU-2-3	1000	120	0.5	1/2 /240/1/60	47	50	1000	21,500/24,900	R-410	80	67	8.0	27,300	65	LENNOX CBA27UHE-030
CU-2-2	23,800	R-410A	230/1/60	15	20	16.5	1	45	125	105	LENNOX ML17XC1-024	FCU-2-2	800	120	0.5	1/2 /240/1/60	36	40	800	17,300/20,300	R-410	80	67	6.0	20,500	65	LENNOX CBA27UHE-024

* PROVIDE UNIT WITH SINGLE-POINT ELECTRICAL CONNECTION, LOW AMBIENT CONTROL.
 ** PROVIDE ALL UNITS WITH FAN AND CONDENSER COIL HAIL GUARDS.

* PROVIDE UNIT WITH SINGLE-POINT ELECTRICAL CONNECTION, ELECTRIC HEAT, 24/7 PROGRAMMABLE THERMOSTAT.

PROFESSIONAL'S SEAL

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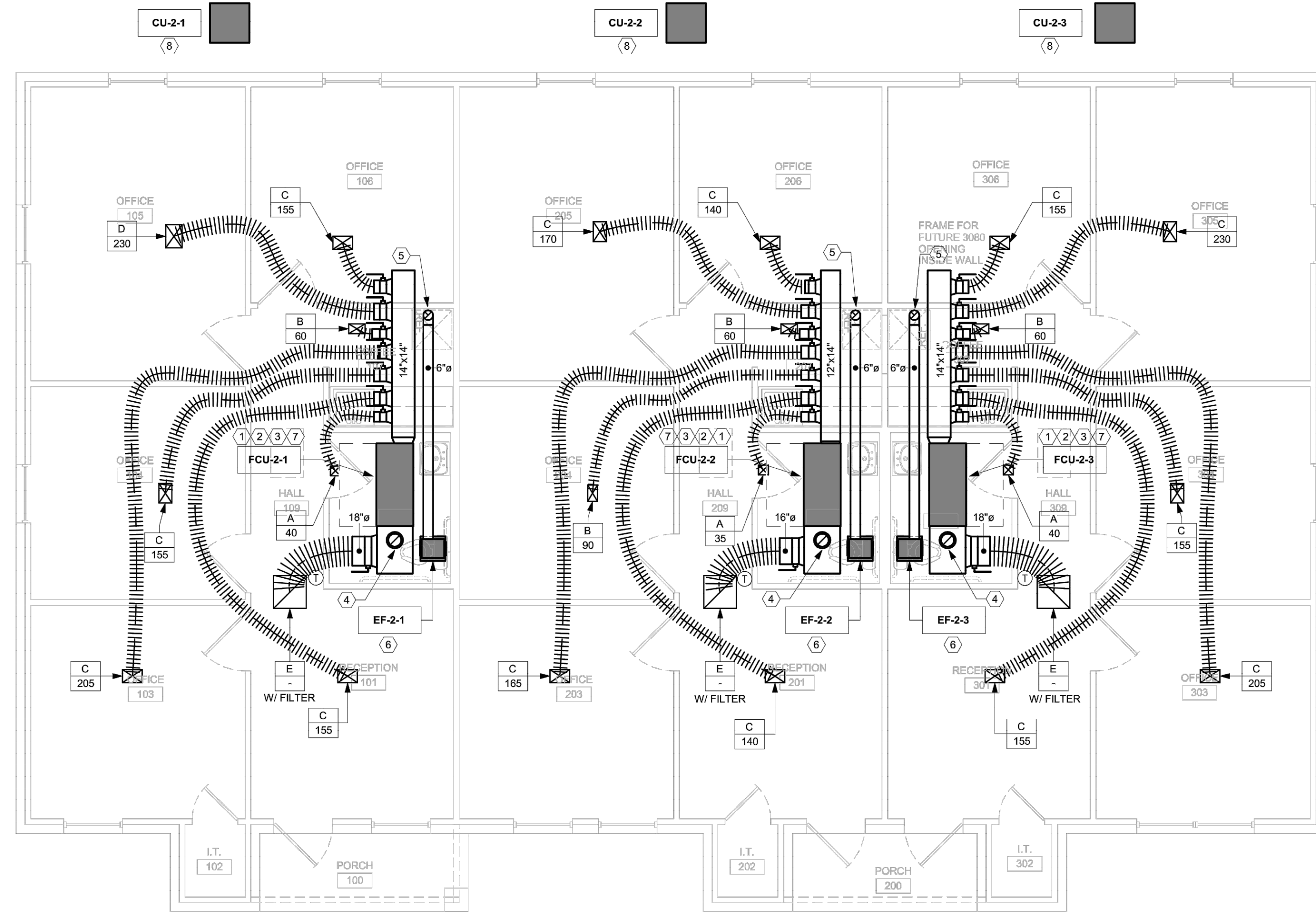
REVISION HISTORY	DATE	DESCRIPTION
	02-22-2023	
0		REVIEW

SHEET DESCRIPTION

Mechanical Schedules

SHEET NUMBER

M1-0



- GENERAL NOTES:**
- ROUTE ALL FLEX DUCT TIGHT TO ROOF.
- PLAN NOTES:**
- INSTALL PER MANUFACTURER'S SPECIFICATIONS AND MAINTAIN ALL RECOMMENDED CLEARANCES.
 - ROUTE CONDENSATE TO LAVATORY BRANCH TAIL PIECE IN BREAK ROOM. CONDENSATE LINES SHALL BE SIZED PER MANUFACTURER'S RECOMMENDATIONS.
 - PROVIDE AND INSTALL IAQ AUXILIARY DRAIN PAN UNDER ENTIRE UNIT WITH FLOAT SWITCH IN DRAIN PAN TO SHUT DOWN UNIT UPON HIGH WATER LEVEL DETECTION. ROUTE AUXILIARY DRAIN TO SOFFIT ABOVE EXTERIOR WINDOW.
 - ROUTE 8" DIAMETER OUTSIDE AIR DUCT UP TO ROOF WITH BACKDRAFT DAMPER. PROVIDE WEATHER CAP WITH BIRD SCREEN. INSTALL OA BALANCING DAMPER. OUTSIDE AIR DAMPER SHALL BE MOTORIZED WITH 24-VOLT POWER. PROVIDE DUCT MOUNTED FILTER RACK WITH ACCESS DOOR IN OUTSIDE AIR DUCT.
 - ROUTE 6" ROUND EXH. DUCT UP TO ROOF AND TERMINATE AT ROOF WITH WEATHERPROOF CAP AND BIRD SCREEN.
 - INTERLOCK EXHAUST FAN WITH LIGHT SWITCH. COORDINATE WITH THE ELECTRICAL CONTRACTOR.
 - RETURN AIR PLENUM SHALL MATCH UNIT OPENING SIZE. COORDINATE EXACT SIZE IN THE FIELD BEFORE INSTALLATION.
 - MOUNT CONDENSING UNIT ON CONCRETE HOUSEKEEPING PAD. SEAL ALL PENETRATIONS WATER AND AIR TIGHT. INSULATE REFRIGERANT PIPING BETWEEN FAN COIL AND CONDENSING UNIT PER SPECIFICATIONS. REFRIGERANT PIPING SHALL BE SIZED PER MANUFACTURER'S RECOMMENDATIONS.

1 Floor Plan - HVAC
SCALE: 1/4" = 1'-0"
PLAN NORTH

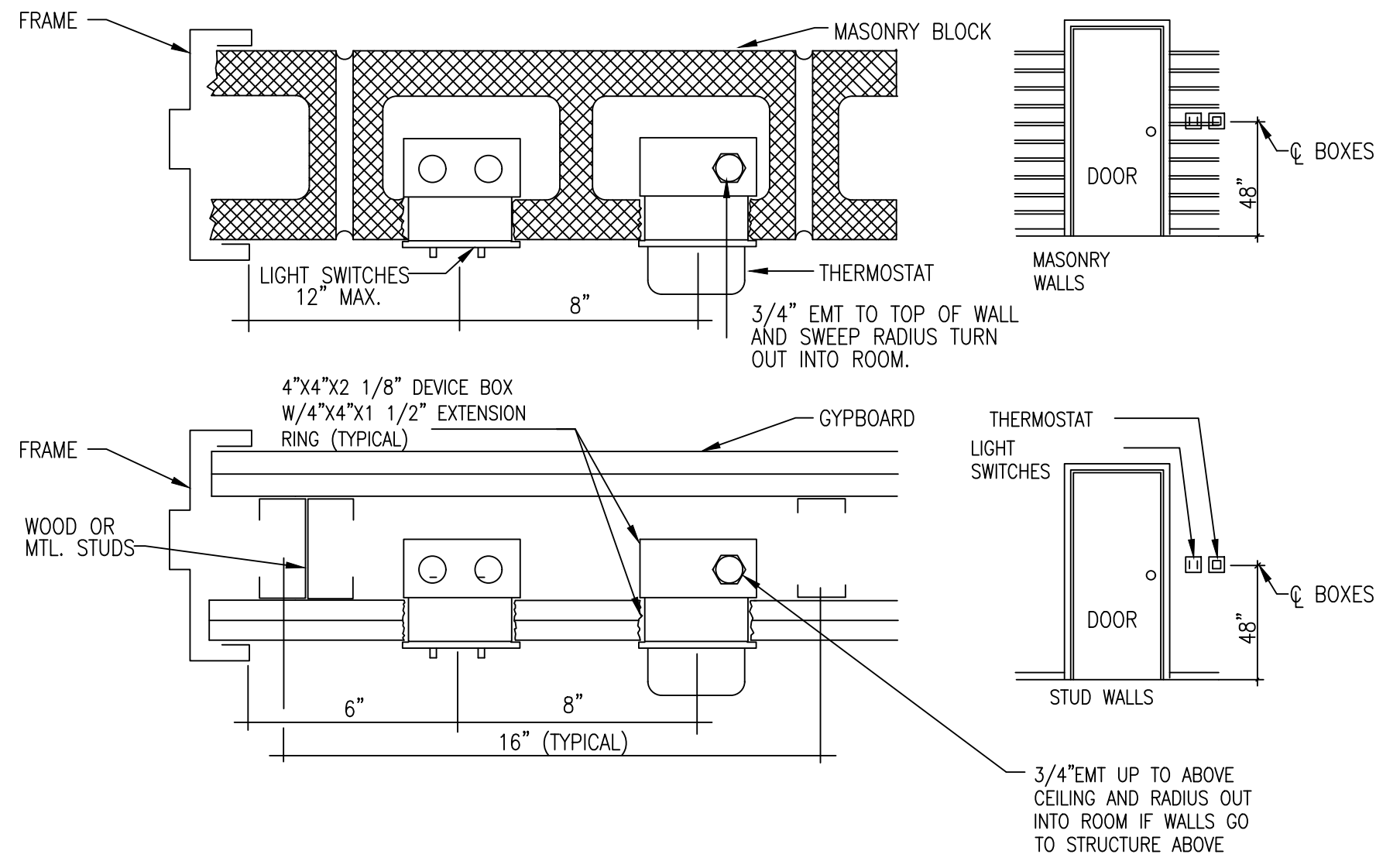
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0 REVIEW	02-22-2023

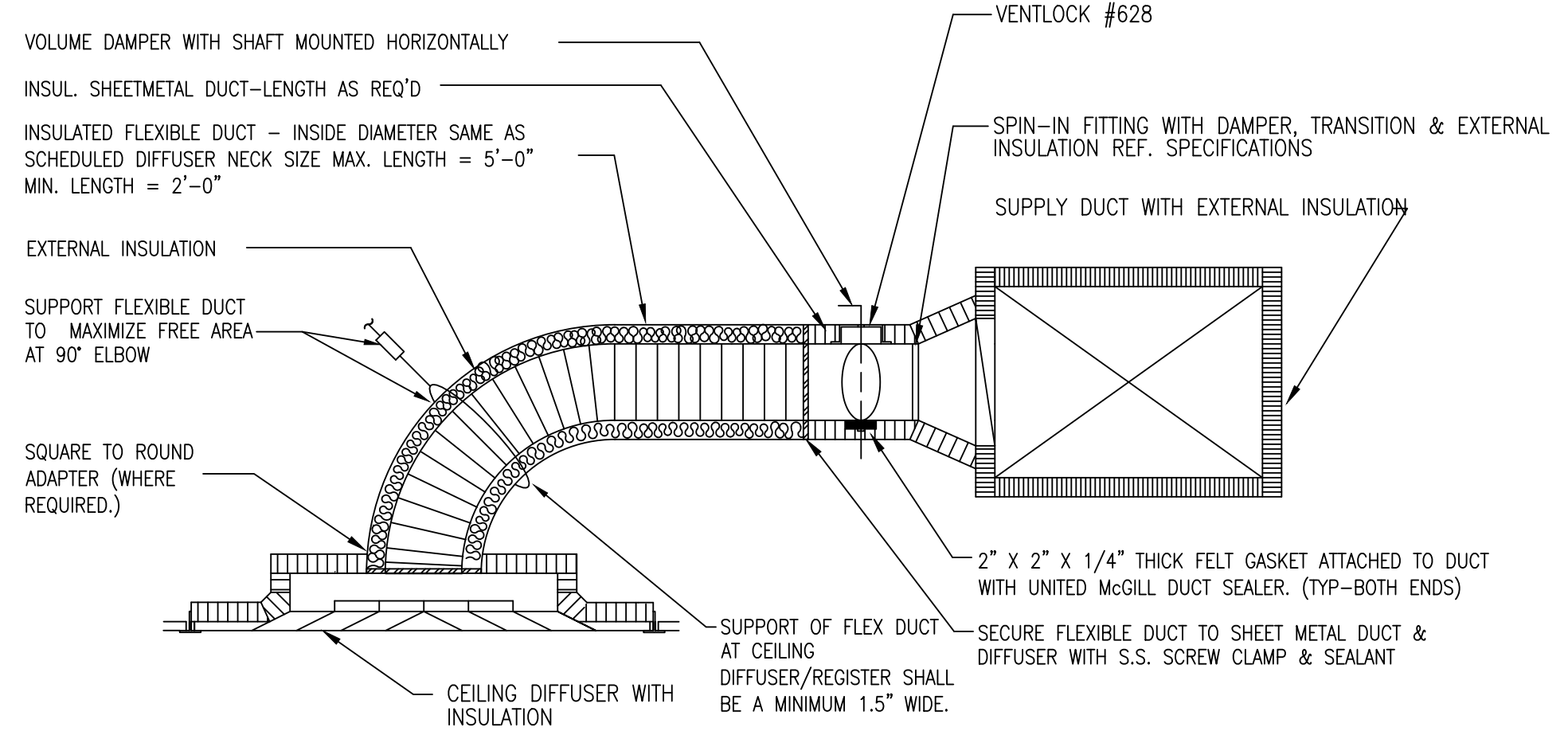
SHEET DESCRIPTION
Floor Plan - HVAC

SHEET NUMBER
M2-1

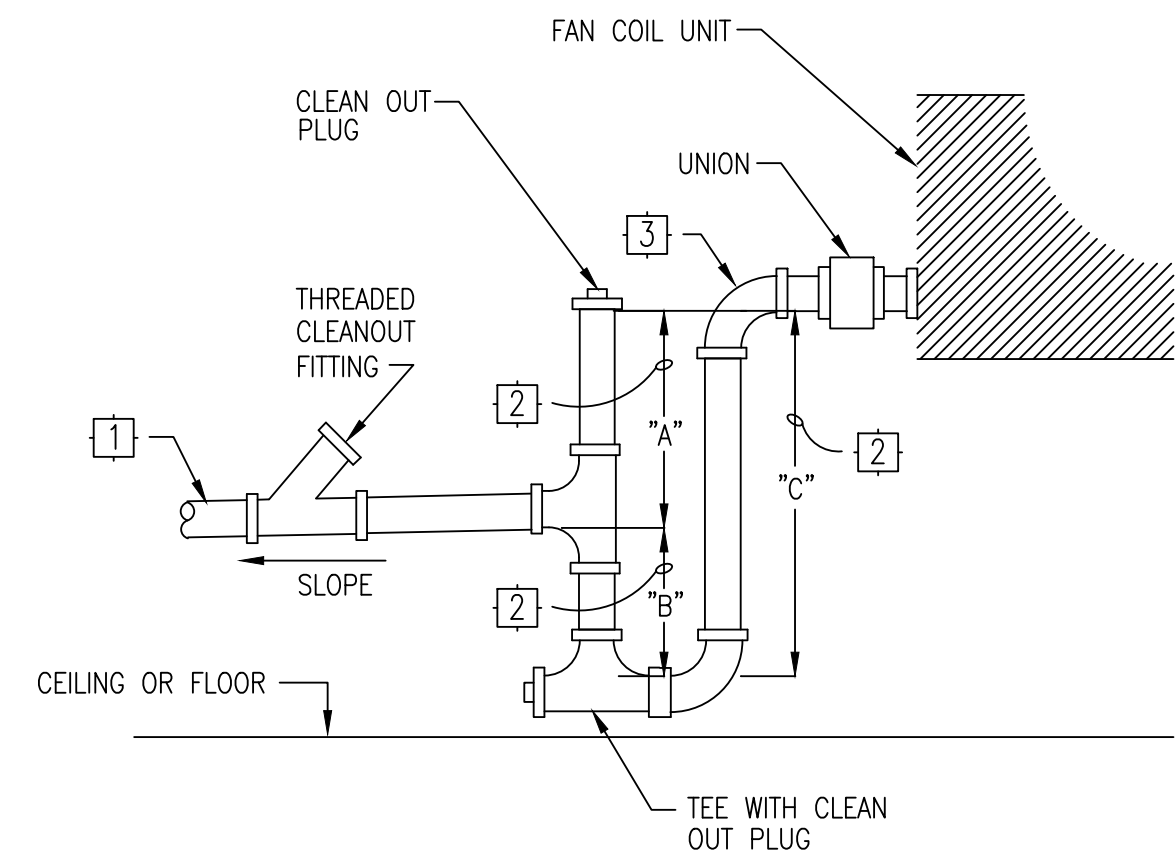
NOTE:
THERMOSTATS LOCATED ADJACENT TO DOORS ON PLANS TO BE INSTALLED PER THIS DETAIL. LOCATE OTHER THERMOSTATS AS SHOWN ON PLANS, 48" A.F.F. UNLESS OTHERWISE NOTED.



1 ROOM THERMOSTAT/ LIGHT SWITCH DETAIL
SCALE: NOT TO SCALE



2 DIFFUSER CONNECTION DETAIL
SCALE: NOT TO SCALE

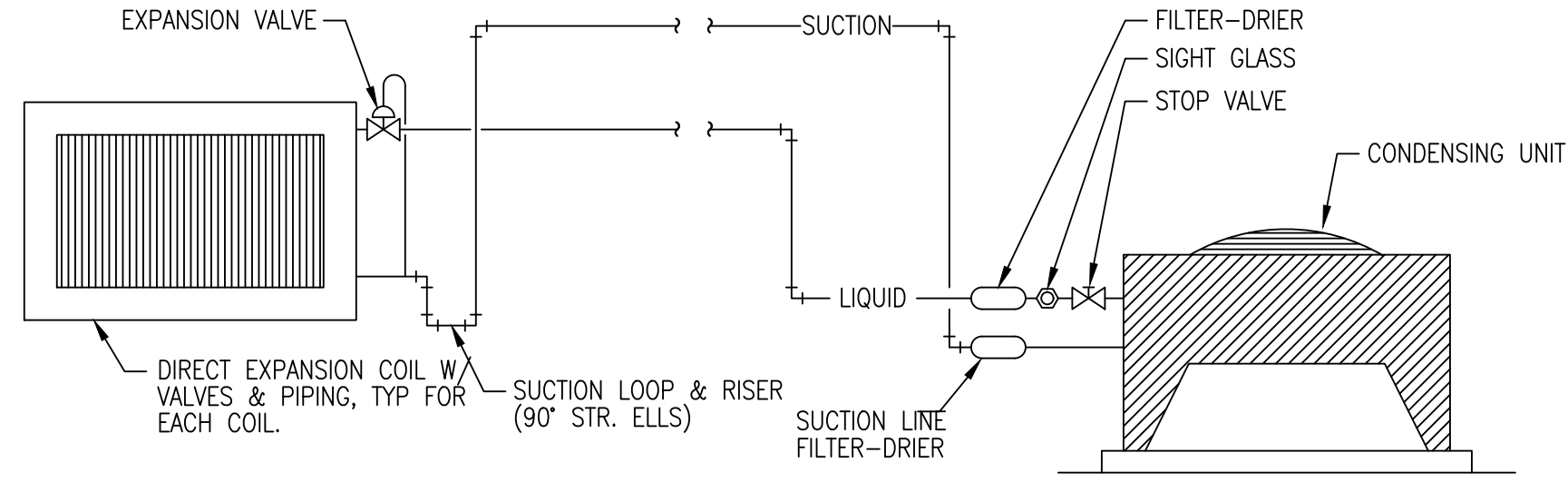


KEYED NOTES:

- 1 ROUTE CONDENSATE DRAIN TO NEAREST FLOOR DRAIN
- 2 "A" = FAN PLENUM NEGATIVE STATIC PRESSURE, IN. W.G.
"B" = $A/2 + 1-1/2$ (MIN.)
"C" = A + B
- 3 CONDENSATE DRAIN SHALL BE SIZED BY AIR HANDLING UNIT MANUFACTURER.

3 CONDENSATE DRAIN PIPING DETAIL
SCALE: NOT TO SCALE

NOTE:
PROVIDE SOLENOID VALVES AND ASSOCIATED CONTROLS IF REQUIRED BY EQUIPMENT MANUFACTURER. SIZE ALL REFRIGERANT PIPING PER MANUFACTURERS RECOMMENDATIONS.



4 REFRIGERANT PIPING SCHEMATIC
SCALE: NOT TO SCALE

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REVISION HISTORY	DATE
0 REVIEW	02-22-2023

SHEET DESCRIPTION
Mechanical Details

SHEET NUMBER
M3-1

THE COMPLETE INSTALLATION SHALL COMPLY WITH ALL REQUIREMENTS OF THE CITY OF GEORGETOWN EXTERIOR LIGHTING ORDINANCE.

ONLY INCANDESCENT, FLUORESCENT, LIGHT-EMITTING DIODE (LED), COLOR-CORRECTED HIGH-PRESSURE SODIUM OR METAL HALIDE LIGHT SOURCES MAY BE USED. THE SAME TYPE MUST BE USED FOR THE SAME OR SIMILAR TYPES OF LIGHTING ON ANY ONE SITE THROUGHOUT ANY MASTER-PLANNED DEVELOPMENT.

LIGHTING FIXTURES MUST BE DESIGNED AND MOUNTED IN SUCH A MANNER THAT THE CONE OF LIGHT DOES NOT CROSS ANY ADJACENT PROPERTY LINES OF NEIGHBORING SITES.

LIGHTING SHALL NOT BE ORIENTED SO AS TO DIRECT GLARE OR EXCESSIVE ILLUMINATION ONTO STREETS IN A MANNER THAT MAY DISTRACT OR INTERFERE WITH THE VISION OF DRIVERS ON SUCH STREETS.

ALL SITE LIGHTING MUST BE DESIGNED AND INSTALLED SO THAT THE LEVEL OF ILLUMINATION AS MEASURED IN FOOT CANDLES AT A HEIGHT OF THREE FEET AT THE PROPERTY LINE DOES NOT EXCEED TWO FOOT CANDLES.

REFER TO SHEET ES.1 FOR THE LIGHTING FIXTURE SCHEDULE FOR THE SITE LIGHTING FIXTURES.

ALL LIGHTING FIXTURES SHALL BE DESIGNED SO THAT THE LIGHT SOURCE IS COMPLETELY CONCEALED, FULLY SHIELDED WITHIN OPAQUE HOUSING AND NOT VISIBLE FROM ANY STREET RIGHT-OF-WAY. THE CONE OF LIGHT SHALL NOT CROSS ANY ADJACENT PROPERTY LINE. THE ILLUMINATION SHALL NOT EXCEED 2-FOOT CANDLES AT A HEIGHT OF THREE (3) FEET AT THE PROPERTY LINE. ONLY INCANDESCENT, FLUORESCENT, LIGHT-EMITTING DIODE (LED), COLOR-CORRECTED HIGH-PRESSURE SODIUM OR METAL HALIDE MAY BE USED.

ROOF LIGHTING MAY NOT INCLUDE NAKED BULBS OR TUBING OR RUN ALONG THE HIGHEST PEAK OF THE ROOFLINE. ROOF LIGHTING THAT QUALIFIES AS SIGNAGE PER THE UDC IS PROHIBITED.

THE ELECTRIC UTILITY (PERDENALES ELECTRIC DELIVERY) WILL PROVIDE THE DESIGN OF THE PRIMARY SIDE INFRASTRUCTURE NECESSARY FOR THIS PROJECT, DUE TO THE COMPLEXITY OF THIS PROJECT AND QUANTITY OF UTILITY TRANSFORMERS, THE PRIMARY SIDE CONDUITS AND OTHER INFRASTRUCTURE THAT MAY BE NECESSARY ARE NOT SHOWN ON THIS PLAN. THE ELECTRICAL SITE PLAN WILL BE REVISED AS THE PRIMARY SIDE DESIGN DEVELOPS AND IS AVAILABLE.

THE UNDERGROUND ELECTRICAL INSTALLATION SHALL COMPLY WITH ALL APPLICABLE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE AND AHJ, ESPECIALLY NEC SECTION 300.5 (INCLUDING NEC 300.5 (D)(3)).

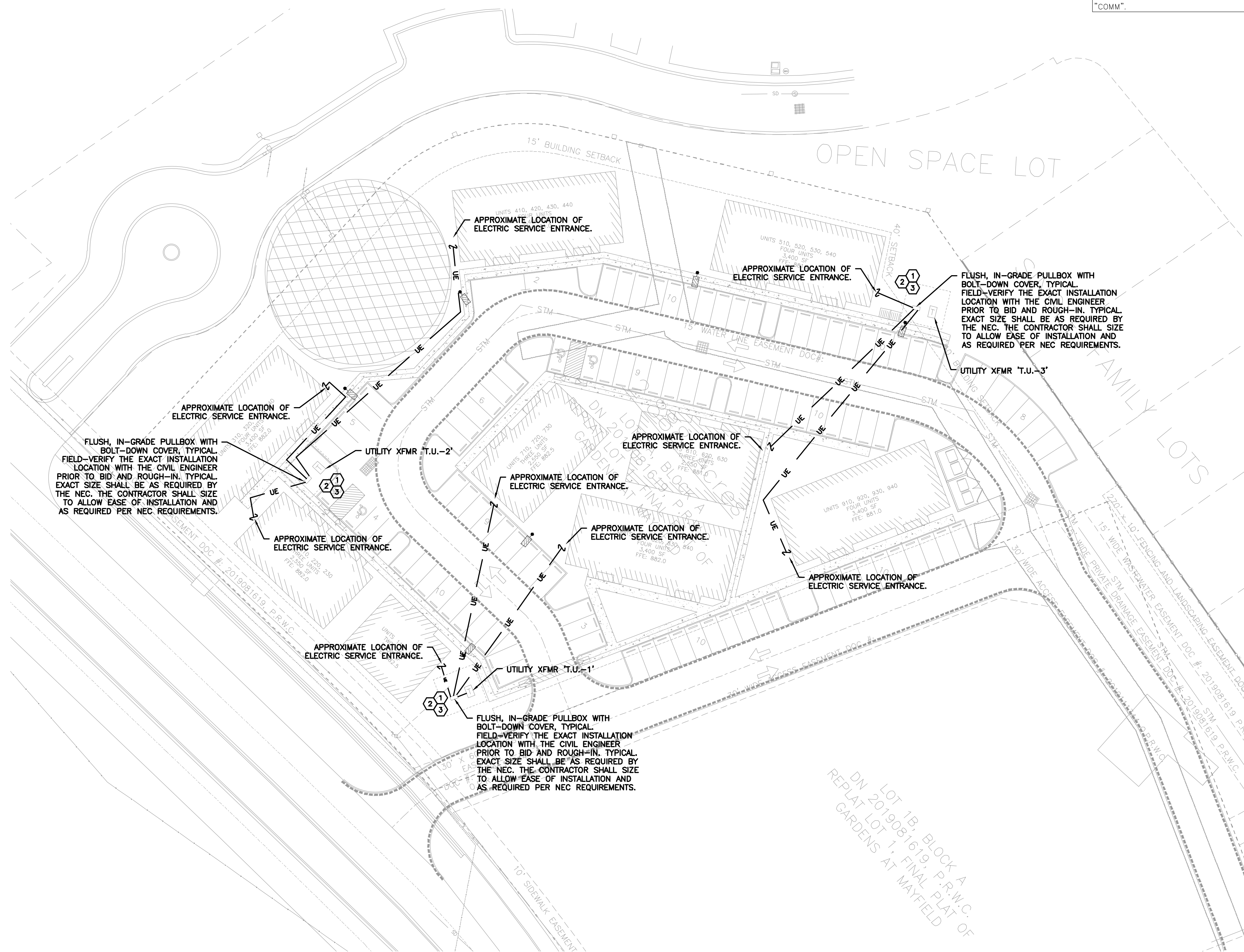
PROVIDE (1)-4" SCHEDULE 40 PVC CONDUIT FROM THE COMMUNICATIONS SERVICE ENTRANCE ON THE BUILDING TO THE COMMUNICATIONS SERVICE PEDESTAL, IN-GRADE PULLBOX, OR LOCATION SPECIFIED BY THE INDIVIDUAL SERVICE PROVIDER(S). TYPICALLY, THE COMMUNICATIONS SERVICE ENTRANCE ENCLOSURE AT THE BUILDING SHALL BE LOCATED ADJACENT TO THE ELECTRICAL SERVICE ENTRANCE, BUT THE CONTRACTOR SHALL FIELD-COORDINATE THE TERMINATION LOCATIONS OF THE CONDUIT(S) WITH THE INDIVIDUAL SERVICE PROVIDER(S) PRIOR TO BID AND ROUGH-IN. PROVIDE PULL ROPE IN EACH CONDUIT. THE MINIMUM DEPTH OF BURIAL FOR ALL COMMUNICATIONS CONDUITS SHALL BE 24" BELOW FINISHED GRADE TO THE TOP OF THE CONDUIT(S). THE CONTRACTOR SHALL FIELD-VERIFY THE EXACT PATHWAY, QUANTITIES OF CONDUITS, INNERDUCTS, PULLBOXES, ETC. REQUIRED WITH THE COMMUNICATIONS SERVICE PROVIDER(S) PRIOR TO BID AND ROUGH-IN. THE PATHWAY SHALL ALSO BE FIELD-COORDINATED WITH THE PROJECT CIVIL ENGINEER AND ALL OTHER UTILITIES PRIOR TO ROUGH-IN. THE COMMUNICATIONS CONDUITS MAY SHARE A TRENCH WITH OTHER UTILITIES IF ALLOWED BY EACH UTILITY WITHIN THE TRENCH, AND IF SO INSTALLED, SHALL BE INSTALLED TO MEET EACH UTILITY'S REQUIREMENTS FOR INSTALLATION. MAINTAIN SEPARATION OF UTILITIES AS REQUIRED BY EACH UTILITY/SERVICE PROVIDER. LABEL THE CONDUITS AT THE STUB-UP LOCATION AT THE BUILDING AS "COMM".

GENERAL NOTES:

- ALL JUNCTION BOXES USED FOR TERMINATING OR SPLICING WIRE THAT ARE IN-GRADE, EXTERIOR TO THE BUILDING SHALL BE FILLED WITH A RE-ENTERABLE ELECTRICAL INSULATING RESIN POTTING COMPOUND SIMILAR OR APPROVED EQUAL TO 3M SCOTCHCAST # 2123. RESIN SHALL NOT BE INSTALLED UNTIL AFTER ALL WIRE TERMINATIONS HAVE BEEN MADE INSULATED AND TESTED. DO NOT ENERGIZE ANY CIRCUIT UNTIL RESIN HAS COMPLETELY SET. COMPOUND SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
- DO NOT ROUTE UNDERGROUND ELECTRICAL CONDUITS BENEATH OR THROUGH DETENTION POND(S) NOR UNDERNEATH BUILDING FOOTPRINTS, EXCEPT WHERE NOTED. FIELD-COORDINATE THE EXACT ROUTING WITH CIVIL ENGINEERING PLANS AND ALL SITE WORK PRIOR TO ROUGH IN.
- DRAWING IS DIAGRAMMATIC ONLY. EXACT ROUTING OF CIRCUITING TO BE BY CONTRACTOR. FIELD-COORDINATE THE EXACT ROUTING OF ALL CONDUITS & CIRCUITS WITH THE WORK OF OTHER TRADES ON SITE AND THE ELECTRICAL UTILITY.
- REFER TO THE CIVIL ENGINEERING DRAWINGS AND THE ARCHITECTURAL DRAWINGS FOR MORE DETAILED INFORMATION.
- THE COMPLETE EXTERIOR LIGHTING INSTALLATION SHALL COMPLY WITH ALL APPLICABLE CODES, ORDINANCES, AND REGULATIONS OF THE AHJ. NOTHING IN THESE DOCUMENTS SHALL BE CONSTRUED AS RELIEVING THE CONTRACTOR FROM THESE REQUIREMENTS.
- COORDINATE WITH THE COMPLETE SET OF CONTRACT DOCUMENTS AND ALL OTHER TRADES FOR THE EXACT LOCATION OF EQUIPMENT AND COMPLETE SCOPE OF WORK.
- ADDITIONAL WORK WILL BE REQUIRED TO PROVIDE NECESSARY INFRASTRUCTURE FOR OTHER BUILDING SYSTEMS NOT SHOWN ON THIS PLAN. REFER TO ALL DRAWINGS AND SPECIFICATIONS INCLUDED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD-COORDINATING ALL CIRCUIT REQUIREMENTS AND SHALL PROVIDE ALL INFRASTRUCTURE REQUIRED (CIRCUIT BREAKERS, SWITCHES, FUSES, TERMINATIONS, CONDUIT SYSTEM, BACKBOX(ES), ETC.) FOR A COMPLETE AND OPERABLE SYSTEM. CONNECT ADDITIONAL CIRCUITS NOT SHOWN ON THIS PLAN TO THE NEAREST SUITABLE PANELBOARD WITH SUFFICIENT AMPACITY. DENOTE ADDITIONAL CIRCUITS ON AS-BUILT FLOOR PLANS AND PANEL SCHEDULES.
- WHEN UTILITY SERVICES CROSS ONE ANOTHER, MAINTAIN THE MINIMUM CLEARANCES AS REQUIRED BY ALL UTILITY PROVIDERS, INCLUDING, BUT NOT LIMITED TO: ELECTRICITY, WATER, GAS, SEWER, ETC. FIELD-VERIFY ALL REQUIRED CLEARANCES AND OBTAIN APPROVAL OF PROPOSED ROUTINGS PRIOR TO ROUGH-IN. OBTAIN INSPECTION/OBSERVATION AND WRITTEN APPROVAL OF ALL CONDUIT DUCT BANKS FROM THE AHJ PRIOR TO BACKFILLING.
- REFER TO E2.1 FOR ALL BUILDING-MOUNTED LIGHTING FIXTURES.
- "PROVIDE" SHALL BE UNDERSTOOD TO MEAN "FURNISH AND INSTALL".

KEYED NOTES: (INDICATED BY "#")

- BOLLARDS PROTECTING ELECTRICAL UTILITY TRANSFORMER SHALL BE AS REQUIRED BY ELECTRICAL UTILITY; FIELD-COORDINATE PRIOR TO BID.
- THE EXACT ROUTING OF THE ELECTRICAL SERVICE ENTRANCE SHALL BE FIELD-COORDINATED PRIOR TO ROUGH-IN.
- APPROXIMATE LOCATION OF ELECTRICAL UTILITY PAD-MOUNTED TRANSFORMER "T.U.-1". FIELD-COORDINATE WITH THE ELECTRICAL UTILITY FOR THE EXACT LOCATION AND ALL REQUIREMENTS PRIOR TO ROUGH-IN. FURNISH AND INSTALL CONCRETE PAD AS WELL AS ADDITIONAL PROVISIONS REQUIRED, INCLUDING, BUT NOT LIMITED TO GROUNDING ROD(S) AND CONDUCTORS, LUGS, PROTECTIVE BOLLARDS, ETC.



01 OVERALL ELECTRICAL SITE PLAN
SCALE: 1" = 30'-0"



MAYFIELD OFFICE PARK - BUILDING TWO
3835 COUNTY ROAD 175
LEANDER, TX 78641

PROFESSIONAL SEAL
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REVISION	DATE	DESCRIPTION
0	10-28-2022	ISSUED FOR REVIEW

SHEET DESCRIPTION
OVERALL ELEC. SITE PLAN

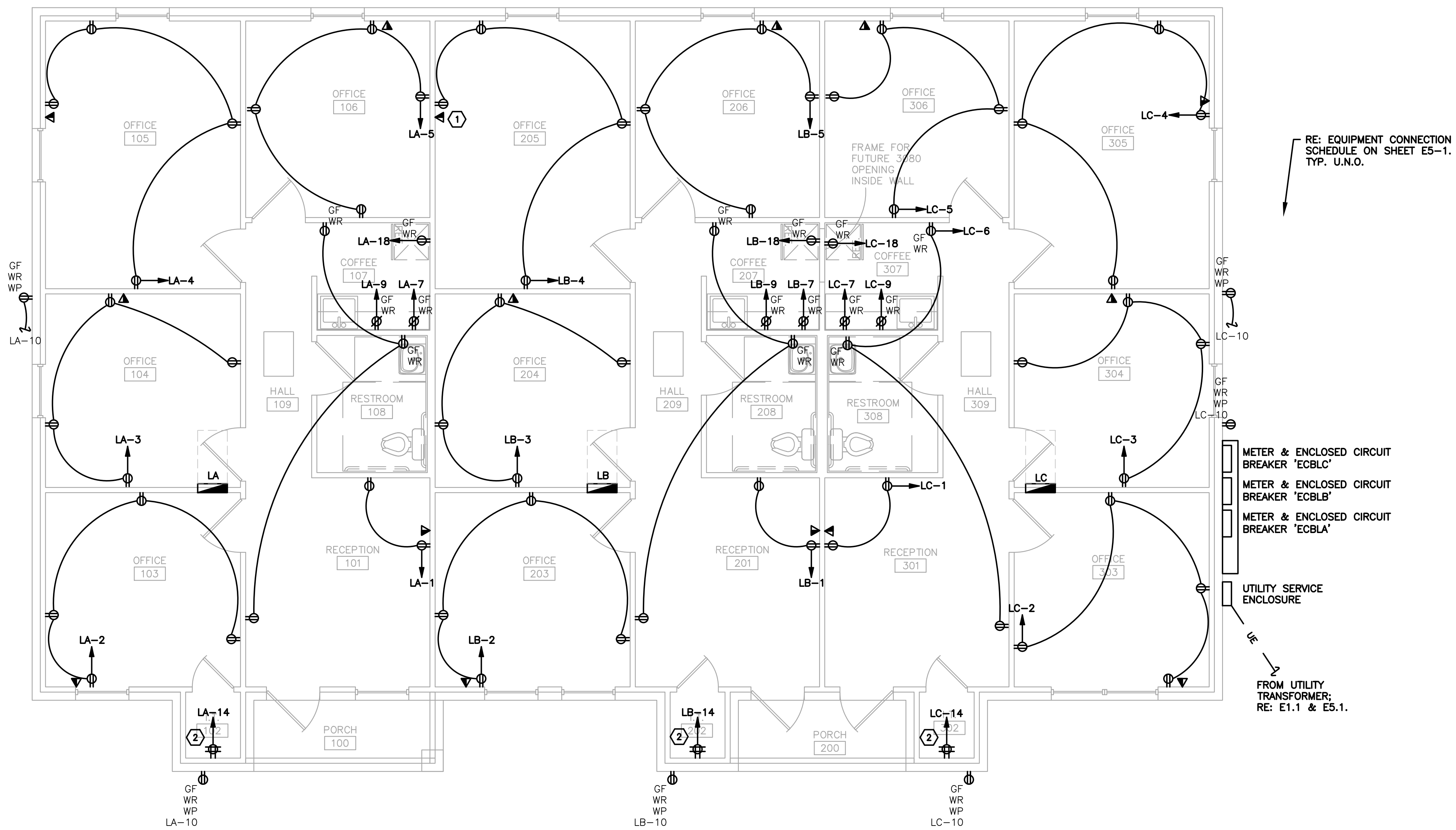
SHEET NUMBER
E1.1



RE: GENERAL ELECTRICAL NOTES ON SHEET E0.1.
 REFER TO THE ARCHITECTURAL PLANS FOR THE EXTENTS OF CONSTRUCTION.
 NOTE: ALL POWER RECEPTACLES SPECIFIED TO BE INSTALLED IN EXTERIOR AND/OR WET LOCATIONS SHALL BE WEATHER-RESISTANT (WR), GFCI-TYPE DUPLEX POWER RECEPTACLES WITH A WEATHERPROOF WHILE-IN-USE COVER. BACKBOX SHALL BE RECESSED, TYP. U.N.O.

KEYED NOTES: (INDICATED BY "#")

- REFER TO DETAIL #04/E4.1. TYPICAL.
- THE CONTRACTOR SHALL FURNISH AND INSTALL METALLIC CONDUITS FROM THE COMMUNICATIONS SERVICE ENTRANCE TO THE LOCATION SPECIFIED BY THE ARCHITECT AND OWNER. FURNISH AND INSTALL MULE TAPE IN EACH AND LABEL EACH AS "COMMUNICATIONS CONDUIT" WITH A PERMANENT PEN AT EACH END. IF CONDUIT IS NOT USED, FURNISH AND INSTALL A VAPOR-AND WATER-TIGHT CONDUIT CAP WITH PULL ROPE TIE-OFF PROVISIONS. RE: DETAIL #01/E4.2.



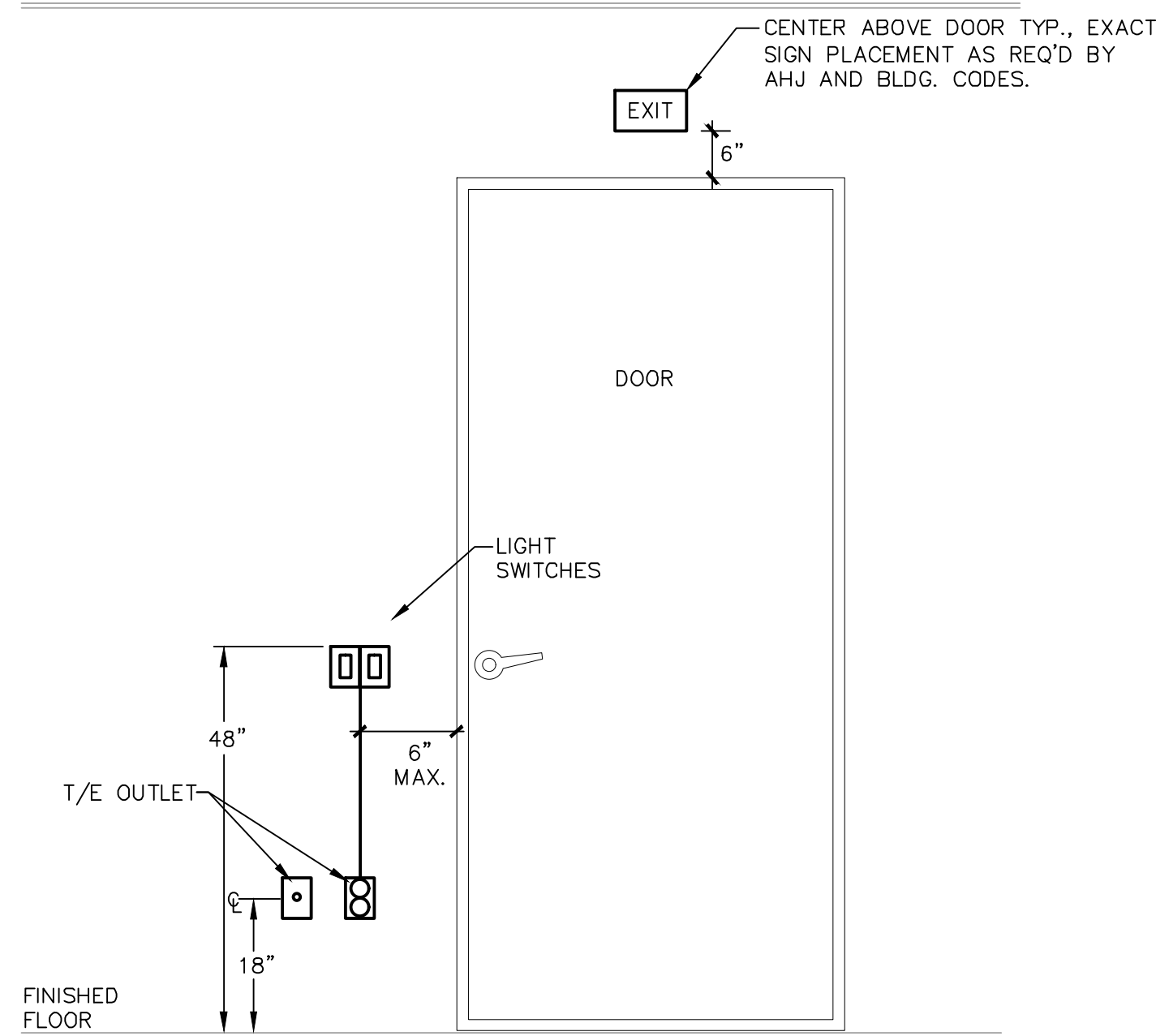
01 ELECTRICAL POWER PLAN
 SCALE: 1/4" = 1'-0"

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ISSUED FOR REVIEW	
0	

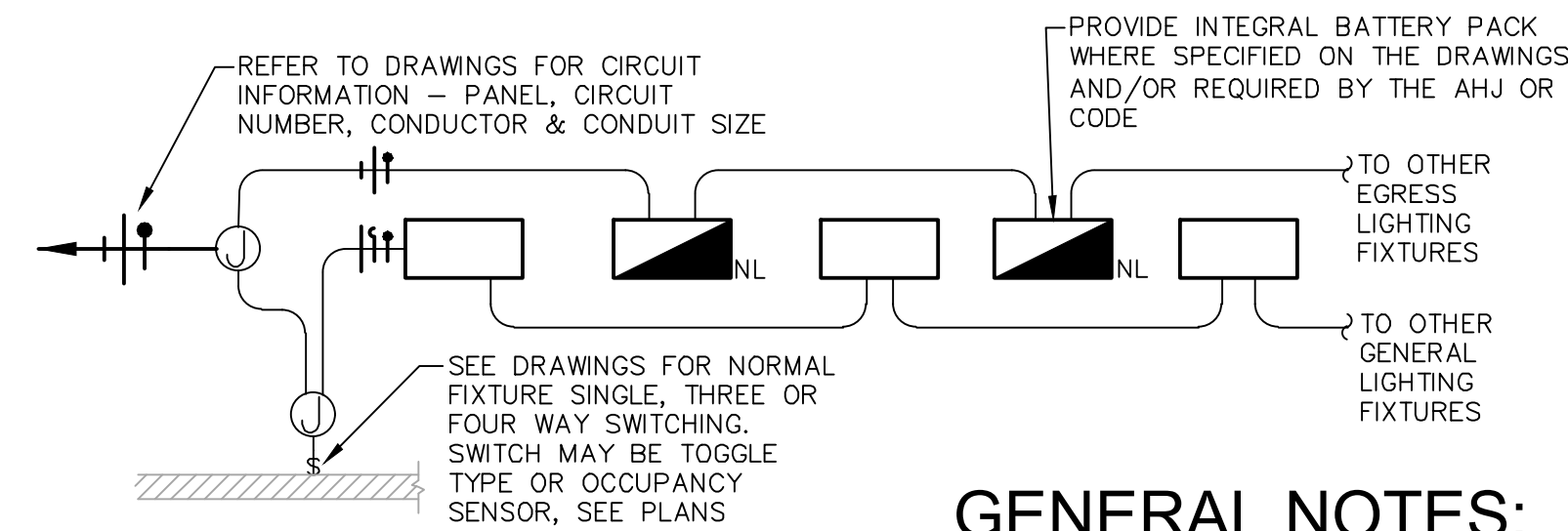
SHEET DESCRIPTION
**ELECTRICAL
 POWER &
 LIGHTING PLANS**

SHEET NUMBER
E2.1



GENERAL NOTES:

- COORDINATE FINAL LOCATION OF ALL DEVICES WITH THE ARCHITECT AND THE ENGINEER PRIOR TO INSTALLATION. WHERE DEVICES ARE SHOWN IN APPROXIMATELY THE SAME LOCATION ON THE DRAWINGS, IT SHALL BE ALIGNED AS INDICATED.

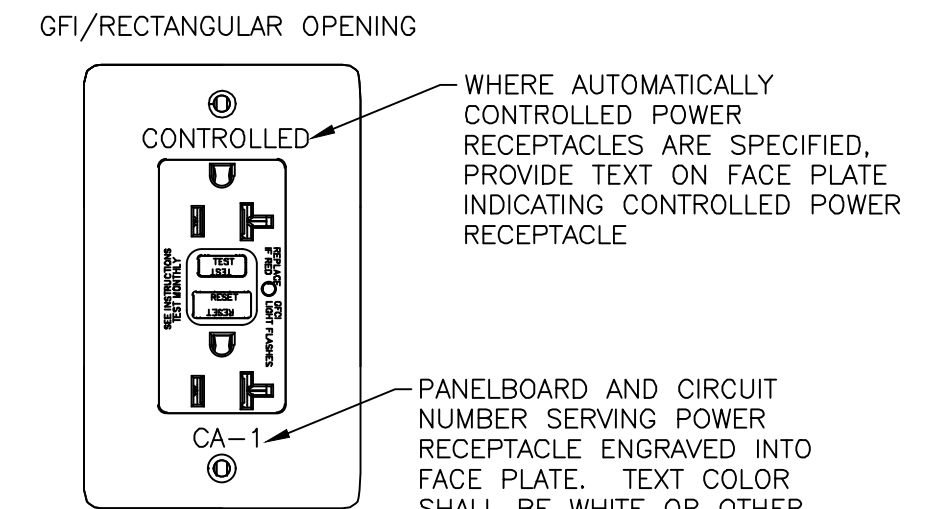
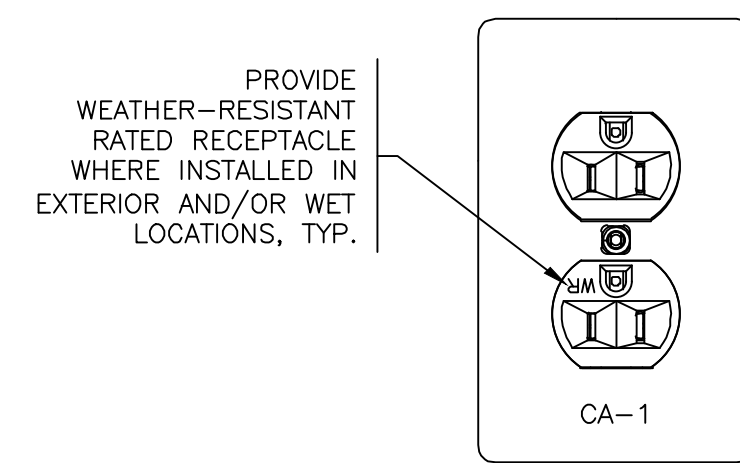


GENERAL NOTES:

- CONNECTIONS ARE SHOWN SCHEMATICALLY. DAISY-CHAINING OF FIXTURES IS NOT ALLOWED.
- REFER TO LIGHTING FIXTURE SCHEDULE FOR FIXTURE TYPES, TYPICAL.

GENERAL NOTES:

- ALL DEVICES SHALL BE U.L. LISTED.
- MINIMUM POWER RECEPTACLE RATING ALLOWED SHALL BE 125VAC, 20-AMPERE, NEMA '5-20R'.
- ALL POWER RECEPTACLES CONNECTED TO BRANCH CIRCUITS DERIVED FROM AN EMERGENCY POWER PANELBOARD SHALL BE CLEARLY, DISTINCTLY, AND PERMANENTLY IDENTIFIED. DUPLEX RECEPTACLE



01 TYPICAL DEVICE COORDINATION DETAIL

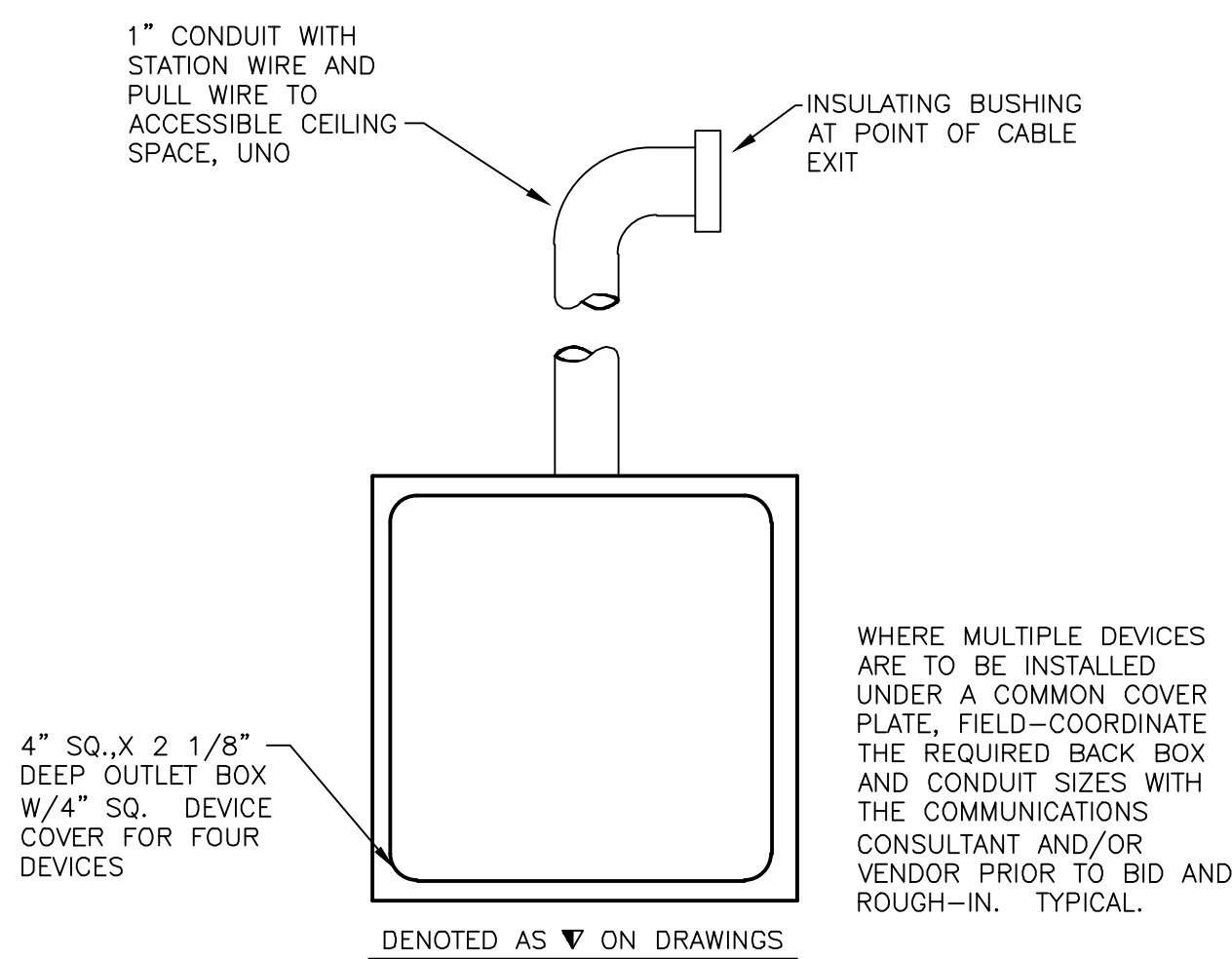
SCALE: N.T.S.

02 TYP. WIRING FOR EGRESS LIGHTING FIXTURES

SCALE: N.T.S.

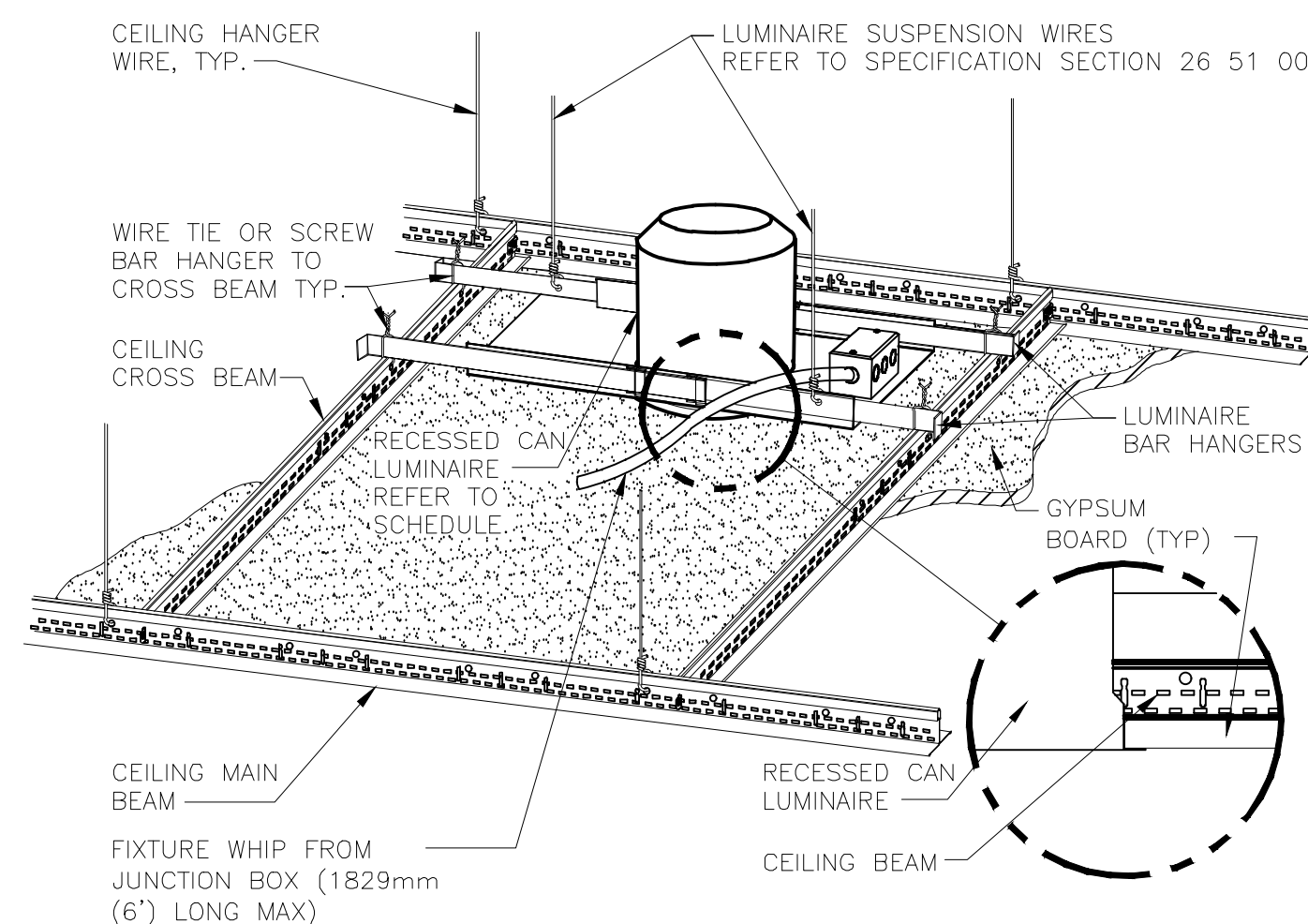
03 TYPICAL POWER RECEPTACLE LABELING REQUIREMENTS

NOT TO SCALE



04 TYPICAL VOICE/DATA COMBINATION DEVICE

SCALE: N.T.S.



GENERAL NOTE:

- INSTALL IN ACCORDANCE WITH MANUFACTURER'S MOUNTING INSTRUCTIONS AND USING THE RECOMMENDED MOUNTING HARDWARE.

05 DOWNLIGHT MOUNTING - GYPBOARD CEILING

SCALE: N.T.S.

PROFESSIONAL'S SEAL

THIS DOCUMENT IS RELEASED FOR THE PURPOSE OF INTERIM REVIEW UNDER THE AUTHORITY OF

NICHOLAS E. RABROKER, P.E.
104767 ON 10/28/2022

IT IS NOT INTENDED FOR CONSTRUCTION, BIDDING, REGULATORY APPROVAL OR PERMITTING PURPOSES.

REVISION HISTORY	DATE	DESCRIPTION
0	10-28-2022	ISSUED FOR REVIEW

SHEET DESCRIPTION

ELECTRICAL DETAILS

SHEET NUMBER

E4.1


TRENCH SPECIFICATIONS:
 Installation of conduit:
 1. Minimum cover to be 30" from the top of primary conduit to sub-grade.
 2. Bottom of trench shall be sanded to provide smooth, even support for conduits.
 3. Sand to be placed directly around conduits for initial backfill.
 4. There is to be a minimum of 12" separation between electrical conduits and all other utilities' conduits.
 5. Warning tape to be a minimum of 12" above electrical conduits.
 6. Concrete or flowable fill to be poured around all conduit crossings and 90-degree bends. On conduit bends of other angles, concrete or flowable fill may be required upon inspection.
 7. Trench may be used jointly if adequate separation is provided. (See drawings 510-014, 510-022, 510-023, 510-024 and 510-025).
 8. Conduit may be under pavement if a depth of 30" cover to sub-grade is maintained.
 9. Trench may be on property if adequate depth is maintained. "Adequate depth" is defined as 30" below the lowest point between the edge of pavement and property line.

Inspection schedule:
 1. After primary conduit installation.
 2. After initial backfill.
 3. After secondary conduit installation.
 4. After remainder of initial backfill and warning tape.
 5. After secondary backfill (rock-free dirt).
Failure to receive inspection will require removal of the backfill to allow inspection.

DEVELOPER/CONTRACTOR CONTRIBUTION:
 1. Payment to PEC for materials per the Line Extension Policy.
 2. Trench.
 3. Conduit:
 a. 3" conduit Schedule 40, conduit bends Schedule 80 with 3", 36" minimum radius and accessories.
 b. 4" conduit Schedule 40, conduit bends Schedule 80 with 4", 48" minimum radius and accessories.
 c. Conduit for service will be sized as needed.
 d. 2" conduit for controls or temporary service only.
 e. Conduit bends with a 24" radius may be used only for secondary.
NOTE: Contractor may be required to pull a mandrel, of a diameter not less than 80% of the inside diameter of the conduit through all conduits, under the supervision of a PEC representative.
 4. Conduit spacers.
 5. Transformer pads.
 6. Meter pedestal pads.
 7. Underground secondary enclosures and extensions.
 8. Ground rods and clamps.
 9. Polyester pulling tape (2,500-pound tensile strength) in all conduit. No knots to be tied in the mule tape. It must be a continuous run.
 10. Sand for initial backfill.
 11. Rock-free dirt over initial backfill.
 12. 1/2" to 3/4" gravel for the bottom of vaults and secondary enclosures.
 13. Concrete or flowable fill where required. Flowable fill is NOT allowed as a substitute for concrete for PEC equipment pads. Flowable fill may be used as backfill in situations where trench setting may be an issue or anywhere that does not require structural strength. The 28-day compressive strength range when tested must be a minimum of 300-psi. Flowable fill is NOT a substitute for concrete except where explicitly listed in the Underground Installation Specifications.
 14. Install meter socket when metering on building.
 15. Furnish and install any gang-type meter sockets.
 16. Primary enclosures and extensions (if applicable).
 17. Meter sockets (PEC will provide pedestal-mounted sockets only).
 18. Switchgear (if applicable).
 19. Bollards, if deemed necessary by PEC to protect electrical equipment. Design must be approved by PEC prior to installation.

MEMBER'S RESPONSIBILITY:
 Meter pedestals are approved by PEC. In situations where meter pedestals are used, the following conditions will apply:
 1. Purchase and install circuit breaker in box. Circuit breakers are the bolt-in type. The box will accommodate 150 and 200 amp breakers. The breaker must have an interrupting capacity of 10,000 amps rated at 240 volts. GE Cat. No. TQD22 (amp needed) WL and Eaton Cutler-Hammer FD2200 or equal (old Westinghouse # CA2200W).
 2. Install insulated jumpers from bottom of meter socket to top of breakers.
 3. Install galvanized rigid conduit, Schedule 40 PVC or an approved equal from pedestal pad to bottom of box.
 4. Member will be responsible for the installation of underground cable from the meter pedestal to the house and the connections to the bottom of the circuit breakers. The underground cable used from the meter pedestal to the house shall be an approved type for underground installation (USE or UF type). Conductor size will be based on member load, location of meter and National Electrical Code for size of conduit.
Refer to applicable drawings within these specifications.

REV | B | DATE | 07/09/2020 | REVISION | ADD 2" CONDUIT AND FLOWABLE FILL NOTES | BY | RWC | CHK | SSS | APR | MMG

 UNDERGROUND INSTALLATION SPECIFICATIONS	DEVELOPER/MEMBER/PEC SUPPLIED MATERIAL		
	drawn: RWC	approved: MMG	date: 07/09/2020


MEMBER'S RESPONSIBILITY CONTINUED:
 5. Underground conductor from secondary enclosure/transformer to meter shall have 24" of cover. This depth may be reduced to 18" when a 2" supplemental protective covering of concrete or flowable fill is provided. If rigid conduit is used, the depth can be reduced by 6". Red electric warning tape is also required in the ditch.
 6. Apply and receive all applicable inspections.
 7. When all work is completed according to specifications, notify PEC you are ready for electric service. PEC will make the connect and set the meter on a routine connect order.
 8. For commercial and residential applications, the member shall supply the CT enclosure (if needed) and all secondary cable in accordance with the National Electrical Code.

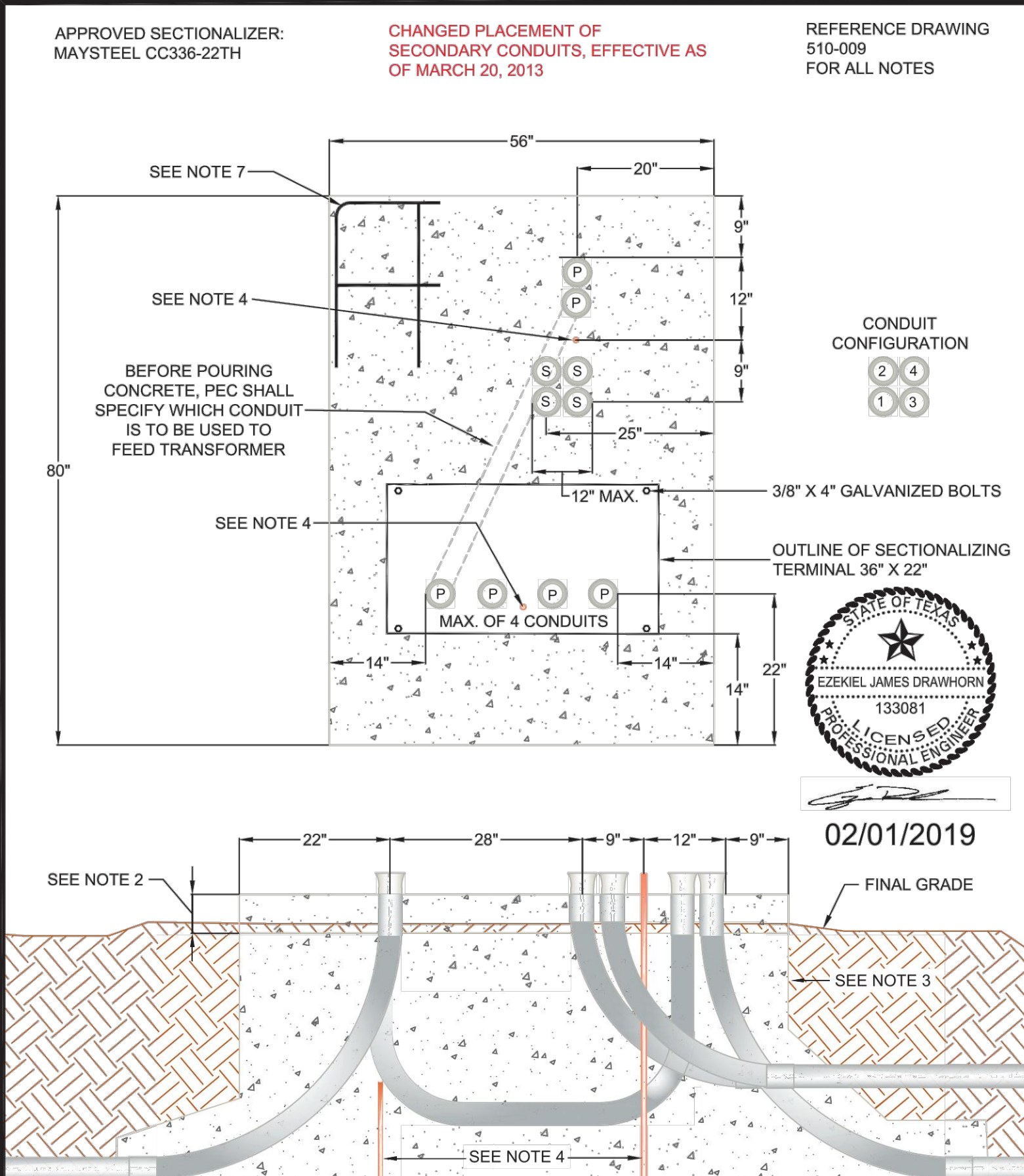
PEC CONTRIBUTION PAID FOR BY DEVELOPER/MEMBER AS INDICATED ON THE LINE EXTENSION POLICY:
 1. Primary conductors.
 2. Secondary conductors.
 3. Cable terminations.
 4. Transformers.
 5. Meter pedestals.
 6. Switchgear.
 7. Secondary GelPort connectors.
 8. Meter socket combo.

PEC RESPONSIBILITY:
 1. Furnish and install meter pedestal.
 2. Furnish and install combination meter socket and breaker box.
 3. Install jumper wires from top of meter socket to pedestal connector and set meter on connect order after all work has been completed.


Refer to applicable drawings within these specifications.

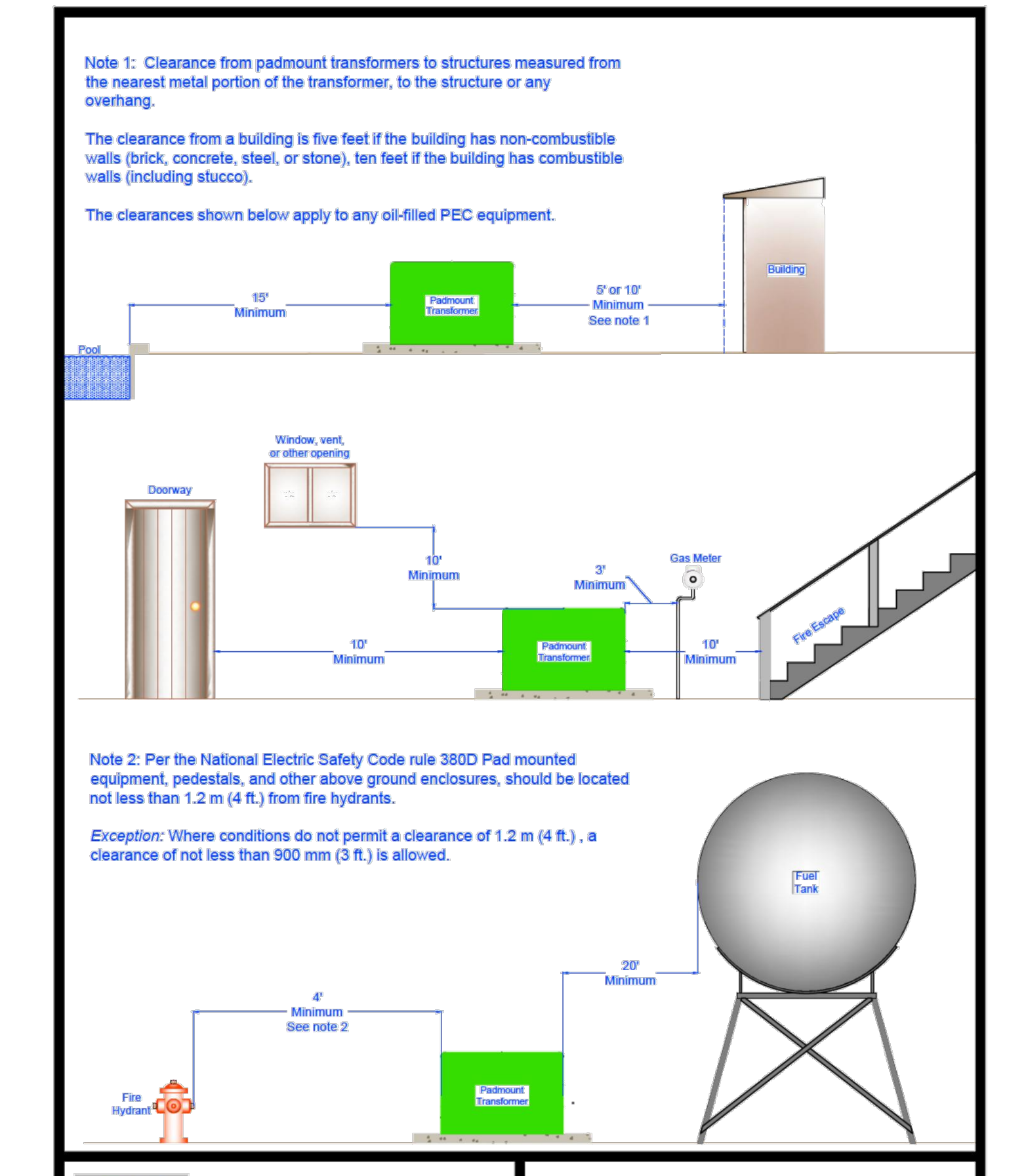
REV | B | DATE | 07/09/2020 | REVISION | ADD 2" CONDUIT AND FLOWABLE FILL NOTES | BY | RWC | CHK | SSS | APR | SSS

 UNDERGROUND INSTALLATION SPECIFICATIONS	DEVELOPER/MEMBER/PEC SUPPLIED MATERIAL		
	drawn: RWC	approved: MMG	date: 07/09/2020




REV | A | DATE | 12/26/2018 | REVISION | ISSUE FOR CONSTRUCTION | BY | RWC | CHK | EJD | APR | MMG

 UNDERGROUND INSTALLATION SPECIFICATIONS	1Ø COMBINATION SECTIONALIZING ENCLOSURE AND TRANSFORMER PAD		
	drawn: RWC	approved: MMG	date: 12/26/2018



REV | B | DATE | 02/01/2019 | REVISION | ISSUE FOR CONSTRUCTION | BY | RWC | CHK | EJD | APR | MMG

 PEDERNALES ELECTRIC COOPERATIVE, INC. URD DEVELOPER'S SPECIFICATIONS	Safety Clearances around Padmount Transformers		
	drawn: JBS	approved: MJB	date: March 11, 2015


Typical All Pads
 1. Require 3" conduit (unless otherwise specified by PEC) with bell-end fittings to extend 1 1/2" to 2" above pad.
 2. Pads must extend a minimum of 4" above final grade and 1 1/2" below final grade. All pads must be placed on a slope less than or equal to 3:1. If greater than 3:1, contractor must bring slope to required grade.
 3. All disturbed soil underneath pad must be replaced by concrete.
 4. All ground rods shall be 3/4" X 10' copper-clad with clamp and must extend 3" above top of pad.
 5. Wood float finish leaving pad square and level with no dips or crown.
 6. **Contact PEC before pouring concrete and comply with the following instructions:**
 • Pre-pour inspection: Check framing and layout of pad and conduit components.
 • Final inspection: Overall review of pad and conduits. Ensure bell ends are on conduit.

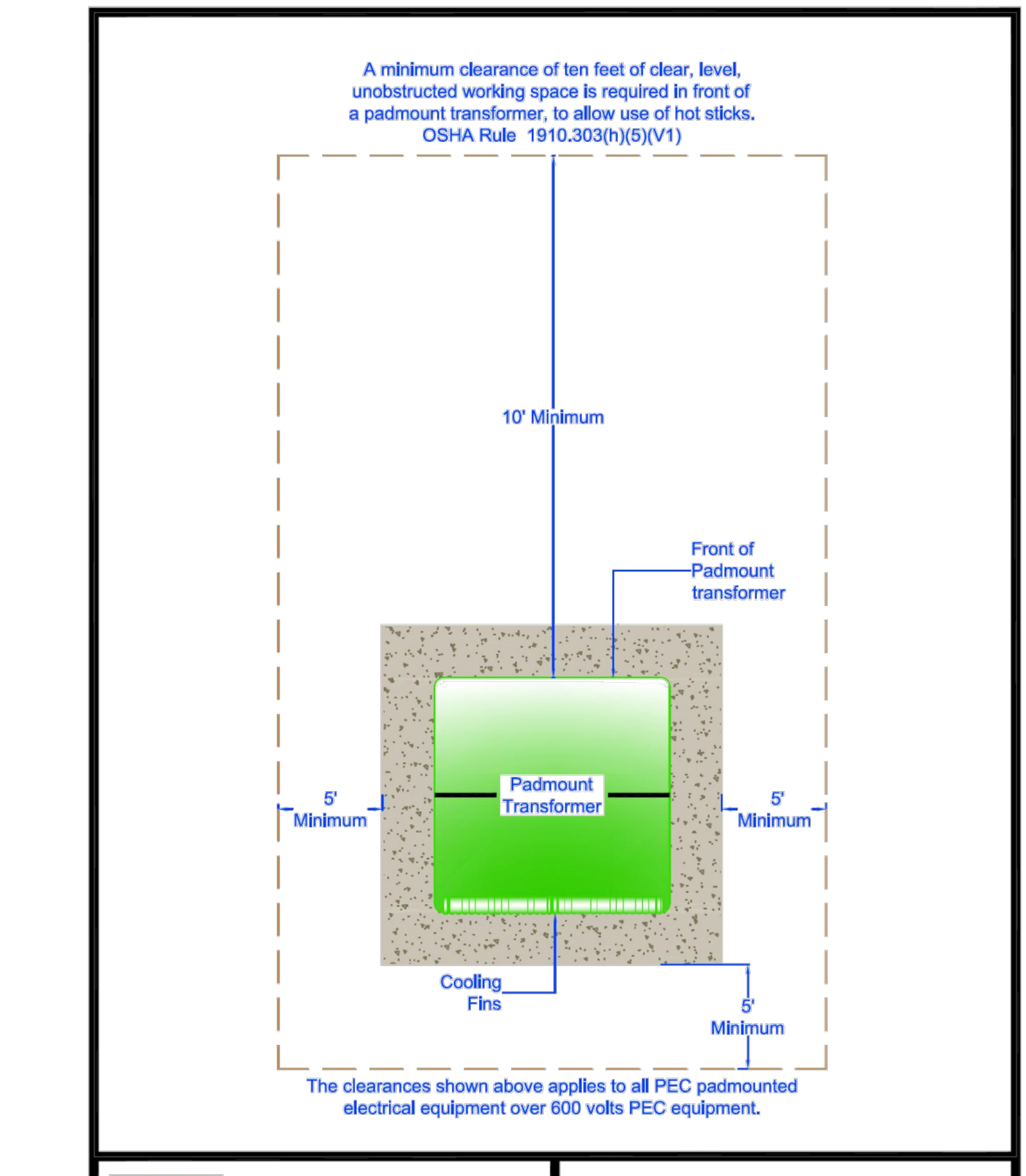
Typical For Single-Phase Transformer, Combination, Sectionalizer, and Secondary Pads
 7. Concrete to have minimum strength of 3,000 PSI.
 8. Steel reinforcing shall be 6" X 6" No. 10 wire mesh or 3/8" re-bar on 12" center to stop 1" from the sides.

Typical For Three-Phase Transformer Pads
 9. Concrete testing, 4,000 PSI; 4%-6% entrained air, 3/4" maximum-size aggregate.
 10. Steel reinforcement shall be 3/8" re-bar on 12" center to stop 1" from sides.
 11. Minimum concrete cover over reinforcing steel 2" unless noted.

Typical Trench Details
 12. Schedule 40 electrical grade PVC conduit. Schedule 80 electrical-grade conduit can be used in place of sand in secondary-only trenches.
 13. Initial backfill shall be manufactured or commercial sand. Minimum 3/8" pea gravel may be used for initial backfill in flood-prone areas.
 14. With PEC approval, minimum cover requirements may be reduced by six inches with every two inches of 3,000 PSI concrete poured directly onto conduit. **"Contact PEC before pouring concrete"**
 15. If any type of vault or pedestal for the underground electric is planned, then all other utilities should be routed around these facilities.
 16. For 2" and smaller waterlines, special permission must be granted by PEC. Water lines larger than 2" will not be allowed in PEC trench.
 17. Refer to drawings 510-023 and 510-025 for PEC specifications and trench details on gas joint trench installations.

REV | B | DATE | 07/23/2020 | REVISION | NOTE 4: 3/4" X 10" GROUND ROD WAS 5/8" X 8" | BY | RWC | CHK | SSS | APR | MMG

 UNDERGROUND INSTALLATION SPECIFICATIONS	TYPICAL NOTES REFERENCE PAGE		
	drawn: RWC	approved: MMG	date: 07/23/2020



REV | B | DATE | 02/28/2013 | REVISION | ISSUE FOR CONSTRUCTION | BY | RWC | CHK | EJD | APR | MMG

 PEDERNALES ELECTRIC COOPERATIVE, INC. URD DEVELOPER'S SPECIFICATIONS	Working Clearances around Padmount Transformers		
	drawn: JBS	approved: MJB	date: February 28, 2013

STAR OF TEXAS
 ENGINEERING, PLLC
 128 North Main, Suite B, Belton, TX 76513
 254-613-1711
 rabroker@starofTEXASengineering.com
 TLR# E-15783

MAYFIELD OFFICE PARK -
 BUILDING TWO
 3835 COUNTY ROAD 175
 LEANDER, TX 78641

PROFESSIONAL'S SEAL
 THIS DOCUMENT IS RELEASED FOR THE PURPOSE OF INTERIM REVIEW UNDER THE AUTHORITY OF
 NICHOLAS E. RABROKER, P.E.
 104767 ON 10/28/2022
 IT IS NOT INTENDED FOR CONSTRUCTION, BIDDING, REGULATORY APPROVAL OR PERMITTING PURPOSES.

REVISION	DATE	DESCRIPTION
0	10-28-2022	ISSUED FOR REVIEW

SHEET DESCRIPTION
 ELECTRICAL DETAILS
 SHEET NUMBER
E4.2

PANELBOARD LA (1-SECTION PANELBOARD)															
PROJECT : 1460 Office			MAIN CKT BRKR RATING :			ENCLOSURE : NEMA 1			SECTION 1 CKT QTY: 42						
PROJECT # : 202217			MAIN LUGS ONLY RATING : 150			MOUNTING : RECESSED			SECTION 2 CKT QTY: 0						
LOCATION : RE PLANS			BUS RATING : 150			CB TYPE : BOLT-ON									
			VOLTAGE : 120/240V, 1PH, 3W			100% NEUTRAL BUS									
			INTERRUPTING CAPACITY : 22,000A RMS SYM. MIN. (FULLY-RATED)			EQUIPMENT GROUND BUS									
FEEDER SIZE	RISD	SETS	Φ, QTY	Φ, SIZE	NEUTRAL	EGC.	° C	NOTE: ALUMINUM CONDUCTORS							
CKT	AMPS	POLE	LOAD DESCRIPTION	LOAD	TYPE	PH	TYPE	LOAD	LOAD DESCRIPTION	AMPS	POLE	CKT			
1	20	1	REC - RECEPTION COMP	500	4	A	0	751	REC - OFFICE 103	20	1	2			
3	20	1	REC - OFFICE 104	791	4	B	0	791	REC - OFFICE 106	20	1	4			
5	20	1	REC - OFFICE 106	791	4	A	0	540	REC - HALL 109, COFFEE 107 & RR 108	20	1	6			
7	20	1	REC - COFFEE 107 COUNTERTOP	1,800	2	B			SPARE	20	1	8			
9	20	1	REC - COFFEE 107 COUNTERTOP	1,800	2	A	0	360	REC - EXTERIOR	20	1	10			
11	20	1	REC - COFFEE 208 COUNTERTOP	1,800	2	B	2	2,500	EW-1	25	1	12			
13	50	2	LTG - SUITE 100	5,820	6	A	2	1,800	REC - COMMUNICATIONS EQUIPMENT	20	1	14			
15	-	-	FCU-2	5,820	6	B			SPARE	20	1	16			
17	30	2	CU-2			A	2	1,200	REC - COFFEE 107 REFRIGERATOR	20	1	18			
19	-	-	SPARE			A	B		SPARE	20	1	20			
21	20	1	SPARE			A	B		SPARE	20	1	22			
23	20	1	SPARE			A	B		SPARE	20	1	24			
25			BUSSED SPACE			A			BUSSED SPACE	26					
27			BUSSED SPACE			A	B		BUSSED SPACE	28					
29			BUSSED SPACE			A			BUSSED SPACE	30					
31			BUSSED SPACE			A	B		BUSSED SPACE	32					
33			BUSSED SPACE			A			BUSSED SPACE	34					
35			BUSSED SPACE			A	B		BUSSED SPACE	36					
37			BUSSED SPACE			A			BUSSED SPACE	38					
39			BUSSED SPACE			A	B		BUSSED SPACE	40					
41			BUSSED SPACE			A			BUSSED SPACE	42					
			PANEL VA	SUB FEED	FEED THRU	CONN. LOAD	DEMAND LOAD	NOTES: (THESE NOTES APPLY TO THIS PANELBOARD ONLY, UNLESS NOTED OTHERWISE)							
PHASE A			13,602	0	0	13,602	13,683	114							
PHASE B			12,333	0	0	12,333	12,408	103							
TOTAL			25,935	0	0	25,935	26,093	109							

ELECTRICAL LOAD ANALYSIS				
1460 Office				
SERVICE VOLTAGE : 120/240V, 1 PHASE, 3 WIRE				
LOAD DESCRIPTION	CONNECTED LOAD (KVA)	DEMAND FACTOR	DEMAND KVA	DEMAND AMPERES
GP RECEPTACLES	7.4	PER NEC	7	31
LIGHTING - CONNECTED LOAD	1.9	-	-	0.0
LIGHTING - SQ. FT. BASIS	3.5	125	4	16.1
EQUIPMENT	27.3	100	27	113.8
MOTORS	0.0	100	-	0.0
COMPUTERS	6.2	100	6	26.0
ELECTRIC HEATING	0.0	100	-	0.0
AIR CONDITIONING	34.9	100	35	145.5
KITCHEN EQUIP. (COMMERCIAL)	0.0	100	-	0.0
ELEVATORS	0.0	100	-	0.0
LARGEST MOTOR	0.0	100	-	0.0
SHOW WINDOWS	0.0	100	-	0.0
RESERVED	0.0	100	-	0.0
N.E.C. DEMAND LOAD			80.3	328

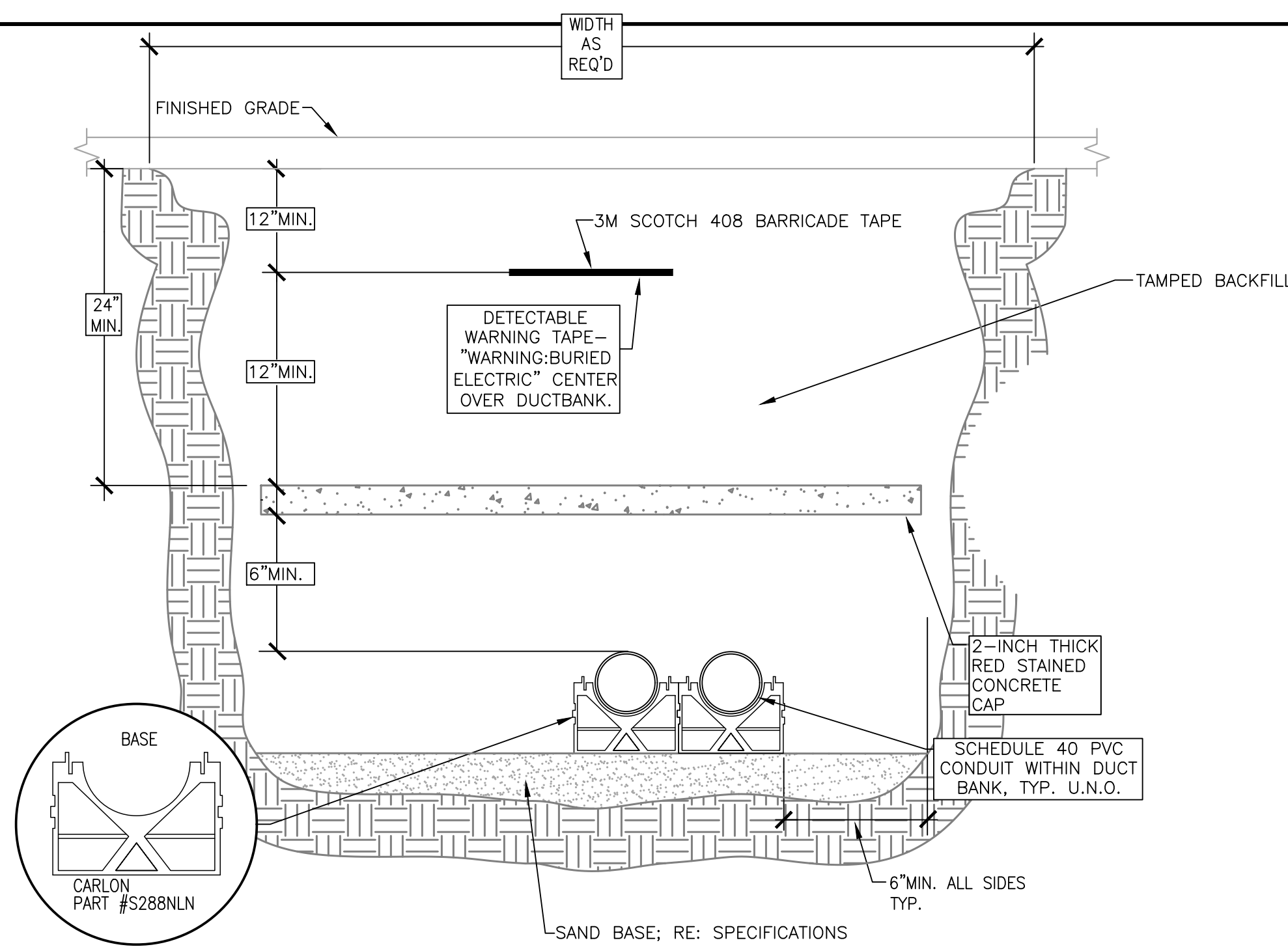
PANELBOARD LB (1-SECTION PANELBOARD)															
PROJECT : 1460 Office			MAIN CKT BRKR RATING :			ENCLOSURE : NEMA 1			SECTION 1 CKT QTY: 42						
PROJECT # : 202217			MAIN LUGS ONLY RATING : 150			MOUNTING : RECESSED			SECTION 2 CKT QTY: 0						
LOCATION : RE PLANS			BUS RATING : 150			CB TYPE : BOLT-ON									
			VOLTAGE : 120/240V, 1PH, 3W			100% NEUTRAL BUS									
			INTERRUPTING CAPACITY : 22,000A RMS SYM. MIN. (FULLY-RATED)			EQUIPMENT GROUND BUS									
FEEDER SIZE	RISD	SETS	Φ, QTY	Φ, SIZE	NEUTRAL	EGC.	° C	NOTE: ALUMINUM CONDUCTORS							
CKT	AMPS	POLE	LOAD DESCRIPTION	LOAD	TYPE	PH	TYPE	LOAD	LOAD DESCRIPTION	AMPS	POLE	CKT			
1	20	1	REC - RECEPTION COMP	500	4	A	0	751	REC - OFFICE 203	20	1	2			
3	20	1	REC - OFFICE 204	791	4	B	0	791	REC - OFFICE 205	20	1	4			
5	20	1	REC - OFFICE 206	791	4	A	0	540	REC - HALL 209, COFFEE 207 & RR 208	20	1	6			
7	20	1	REC - COFFEE 208 COUNTERTOP	1,800	2	B			SPARE	20	1	8			
9	20	1	REC - COFFEE 208 COUNTERTOP	1,800	2	A	0	360	REC - EXTERIOR	20	1	10			
11	20	1	LTG - SUITE 200	616	1	B	2	2,500	EW-1	25	1	12			
13	50	2	FCU-2	5,820	6	A	2	1,800	REC - COMMUNICATIONS EQUIPMENT	20	1	14			
15	-	-	SPARE			A	B		SPARE	20	1	16			
17	30	2	CU-2			A	2	1,200	REC - COFFEE 208 REFRIGERATOR	20	1	18			
19	-	-	SPARE			A	B		SPARE	20	1	20			
21	20	1	SPARE			A	B		SPARE	20	1	22			
23	20	1	SPARE			A	B		SPARE	20	1	24			
25			BUSSED SPACE			A			BUSSED SPACE	26					
27			BUSSED SPACE			A	B		BUSSED SPACE	28					
29			BUSSED SPACE			A			BUSSED SPACE	30					
31			BUSSED SPACE			A	B		BUSSED SPACE	32					
33			BUSSED SPACE			A			BUSSED SPACE	34					
35			BUSSED SPACE			A	B		BUSSED SPACE	36					
37			BUSSED SPACE			A			BUSSED SPACE	38					
39			BUSSED SPACE			A	B		BUSSED SPACE	40					
41			BUSSED SPACE			A			BUSSED SPACE	42					
			PANEL VA	SUB FEED	FEED THRU	CONN. LOAD	DEMAND LOAD	NOTES: (THESE NOTES APPLY TO THIS PANELBOARD ONLY, UNLESS NOTED OTHERWISE)							
PHASE A			13,602	0	0	13,602	13,683	114							
PHASE B			12,318	0	0	12,318	12,391	103							
TOTAL			25,920	0	0	25,920	26,073	109							

EQUIPMENT CONNECTION SCHEDULE														
MARK	EQUIPMENT DESCRIPTION	LOCATION	DISCONNECT RATINGS				FUSE RATINGS	STARTER	E L C	M L C	P L C	MINIMUM CIRCUIT SIZE	SOURCE PANEL	REMARKS/NOTES
			EQUIPMENT CHARACTERISTICS	VOLTAGE	POLE	AMPERE								
			MCA	MOCF	VOLT	P.H.								
EF-1	EXHAUST FAN	RE: MECH PLANS	0.22	20	120	1	125VAC	1P	30A	N/A	X	(2)-#10, #10G, 3/4" C	LA	NOTES 1,2,3,4
EF-2	EXHAUST FAN	RE: MECH PLANS	0.22	20	120	1	125VAC	1P	30A	N/A	X	(2)-#10, #10G, 3/4" C	LB	NOTES 1,2,3,4
EF-3	EXHAUST FAN	RE: MECH PLANS	0.22	20	120	1	125VAC	1P	30A	N/A	X	(2)-#10, #10G, 3/4" C	LC	NOTES 1,2,3,4
	RESERVED								AS REQ'D BY NEC	N/A				AS REQUIRED BY NEC
FCU-1	INDOOR UNIT	RE: MECH PLANS	48.50	50	240	1	240VAC	2P	60A	N/A	X	(2)-#6, #10G, 1" C	LA	NOTES 1,2,3,4,5
FCU-2	INDOOR UNIT	RE: MECH PLANS	48.50	50	240	1	240VAC	2P	60A	N/A	X	(2)-#6, #10G, 1" C	LB	NOTES 1,2,3,4,5
FCU-3	INDOOR UNIT	RE: MECH PLANS	48.50	50	240	1	240VAC	2P	60A	N/A	X	(2)-#6, #10G, 1" C	LC	NOTES 1,2,3,4,5
	RESERVED								AS REQ'D BY NEC					AS REQUIRED BY NEC
	RESERVED								AS REQ'D BY NEC					AS REQUIRED BY NEC
CU-1	CONDENSING UNIT	RE: MECH PLANS	18.10	30	240	1	240VAC	2P	30A	N/A	X	(2)-#10, #10G, 3/4" C	LA	NOTES 1,2,3,4
CU-2	CONDENSING UNIT	RE: MECH PLANS	18.10	30	240	1	240VAC	2P	30A	N/A	X	(2)-#10, #10G, 3/4" C	LB	NOTES 1,2,3,4
CU-3	CONDENSING UNIT	RE: MECH PLANS	18.10	30	240	1	240VAC	2P	30A	N/A	X	(2)-#10, #10G, 3/4" C	LC	NOTES 1,2,3,4
	RESERVED								AS REQ'D BY NEC					AS REQUIRED BY NEC
	RESERVED								AS REQ'D BY NEC					AS REQUIRED BY NEC
EW-1	ELECTRIC WATER HEATER	RE: PLBG. PLANS	20.83	25	120	1	125VAC	1P	30A	N/A	X	(2)-#10, #10G, 3/4" C	LA, LB, LC	NOTES 1,2,3,4
	RESERVED								AS REQ'D BY NEC					AS REQUIRED BY NEC
	RESERVED								AS REQ'D BY NEC					AS REQUIRED BY NEC

PANELBOARD LC (1-SECTION PANELBOARD)															
PROJECT : 1460 Office			MAIN CKT BRKR RATING :			ENCLOSURE : NEMA 1			SECTION 1 CKT QTY: 42						
PROJECT # : 202217			MAIN LUGS ONLY RATING : 150			MOUNTING : RECESSED			SECTION 2 CKT QTY: 0						
LOCATION : RE PLANS			BUS RATING : 150			CB TYPE : BOLT-ON									
			VOLTAGE : 120/240V, 1PH, 3W			100% NEUTRAL BUS									
			INTERRUPTING CAPACITY : 22,000A RMS SYM. MIN. (FULLY-RATED)			EQUIPMENT GROUND BUS									
FEEDER SIZE	RISD	SETS	Φ, QTY	Φ, SIZE	NEUTRAL	EGC.	° C	NOTE: ALUMINUM CONDUCTORS							
CKT	AMPS	POLE	LOAD DESCRIPTION	LOAD	TYPE	PH	TYPE	LOAD	LOAD DESCRIPTION	AMPS	POLE	CKT			
1	20	1	REC - RECEPTION COMP	500	4	A	0	791	REC - OFFICE 303	20	1	2			
3	20	1	REC - OFFICE 304	791	4	B	0	791	REC - OFFICE 305	20	1	4			
5	20	1	REC - OFFICE 306	791	4	A	0	540	REC - HALL 309, COFFEE 307 & RR 308	20	1	6			
7	20	1	REC - COFFEE 308 COUNTERTOP	1,800	2	B			SPARE	20	1	8			
9	20	1	REC - COFFEE 308 COUNTERTOP	1,800	2	A	0	360	REC - EXTERIOR	20	1	10			
11	20	1	LTG - SUITE 300	616	1	B	2	2,500	EW-1	25	1	12			
13	50	2	FCU-3	5,820	6	A	2	1,800	REC - COMMUNICATIONS EQUIPMENT	20	1	14			
15	-	-	SPARE			A	B		SPARE	20	1	16			
17	30	2	CU-3			A	2	1,200	REC - COFFEE 308 REFRIGERATOR	20	1	18			
19	-	-	SPARE			A	B		SPARE	20	1	20			
21	20	1	SPARE			A	B		SPARE	20	1	22			
23	20	1	SPARE			A	B		SPARE	20	1	24			
25			BUSSED SPACE			A			BUSSED SPACE	26					
27			BUSSED SPACE			A	B		BUSSED SPACE	28					
29			BUSSED SPACE			A			BUSSED SPACE	30					
31			BUSSED SPACE			A	B		BUSSED SPACE	32					
33			BUSSED SPACE			A			BUSSED SPACE	34					
35			BUSSED SPACE			A	B		BUSSED SPACE	36					
37			BUSSED SPACE			A			BUSSED SPACE	38					
39			BUSSED SPACE			A	B		BUSSED SPACE	40					
41			BUSSED SPACE			A			BUSSED SPACE	42					
			PANEL VA	SUB FEED	FEED THRU	CONN. LOAD	DEMAND LOAD	NOTES: (THESE NOTES APPLY TO THIS PANELBOARD ONLY, UNLESS NOTED OTHERWISE)							
PHASE A			13,602	0	0	13,602	13,683	114							
PHASE B			12,318	0	0	12,318	12,391	103							
TOTAL			25,920	0	0	25,920	26,073	109							

EQUIP. CONN. SCHED. GENERAL NOTES:

(THESE NOTES APPLY TO ALL EQUIPMENT SPECIFIED ON THE EQUIPMENT CONNECTION



02 CONDUIT DUCT BANK ELEVATION
SCALE: N.T.S.

NOTE: ALL GROUNDING ELECTRODE CONDUCTORS AND GROUNDING ELECTRODES SHALL BE OF COPPER MATERIAL. GROUND RODS SHALL BE COPPER-CLAD STEEL, TYPICAL.

KEYED NOTES: (INDICATED BY "Ⓢ")

- UTILITY COMPANY ELECTRIC METER. COORDINATE WITH ELECTRIC DELIVERY COMPANY FOR EXACT REQUIREMENTS. COORDINATE EXACT LOCATION WITH THE ELECTRIC DELIVERY COMPANY, OWNER, AND ARCHITECT PRIOR TO ROUGH-IN. PROVIDE ALL INFRASTRUCTURE REQUIRED BY OWNER AND ELECTRIC DELIVERY COMPANY, INCLUDING, BUT NOT LIMITED TO: ALL CONDUCTORS, CONDUIT, ENCLOSURES, METER BASE, TERMINATIONS, BOXES, LUGS, ETC.
- ENCLOSED CIRCUIT BREAKER. 240VAC/150A/2P/NEMA 3R, UL LISTED AS SERVICE EQUIPMENT. RATED AND BRACED FOR A MINIMUM 65,000 AMPERES. TYPICAL U.N.O.
- CONNECT TO GROUNDING ELECTRODE SYSTEM. PROVIDE (2)-5/8" X 10" COPPER-CLAD STEEL GROUND RODS AND DRIVE A MINIMUM OF EIGHT-FEET (8') INTO THE EARTH. PROVIDE A CONNECTION TO THE CONCRETE REINFORCING STEEL (UPPER GROUND) IF CONCRETE IS INSTALLED IN CONTACT WITH THE EARTH AS REQUIRED BY THE NATIONAL ELECTRICAL CODE. PROVIDE A CONNECTION TO THE MAIN INCOMING WATER PIPE IF METALLIC AND IN CONTACT WITH THE EARTH FOR A MINIMUM OF TEN-FEET (10') AS REQUIRED BY CODE. BOND ALL SYSTEMS AS REQUIRED BY THE NATIONAL ELECTRICAL CODE. REFER TO ELECTRICAL SPECIFICATIONS FOR MORE INFORMATION.



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MAYFIELD OFFICE PARK -
BUILDING TWO
3835 COUNTY ROAD 175
LEANDER, TX 78641

PROFESSIONAL'S SEAL

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NICHOLAS E. RABROKER, P.E.
104767 ON 10/28/2022

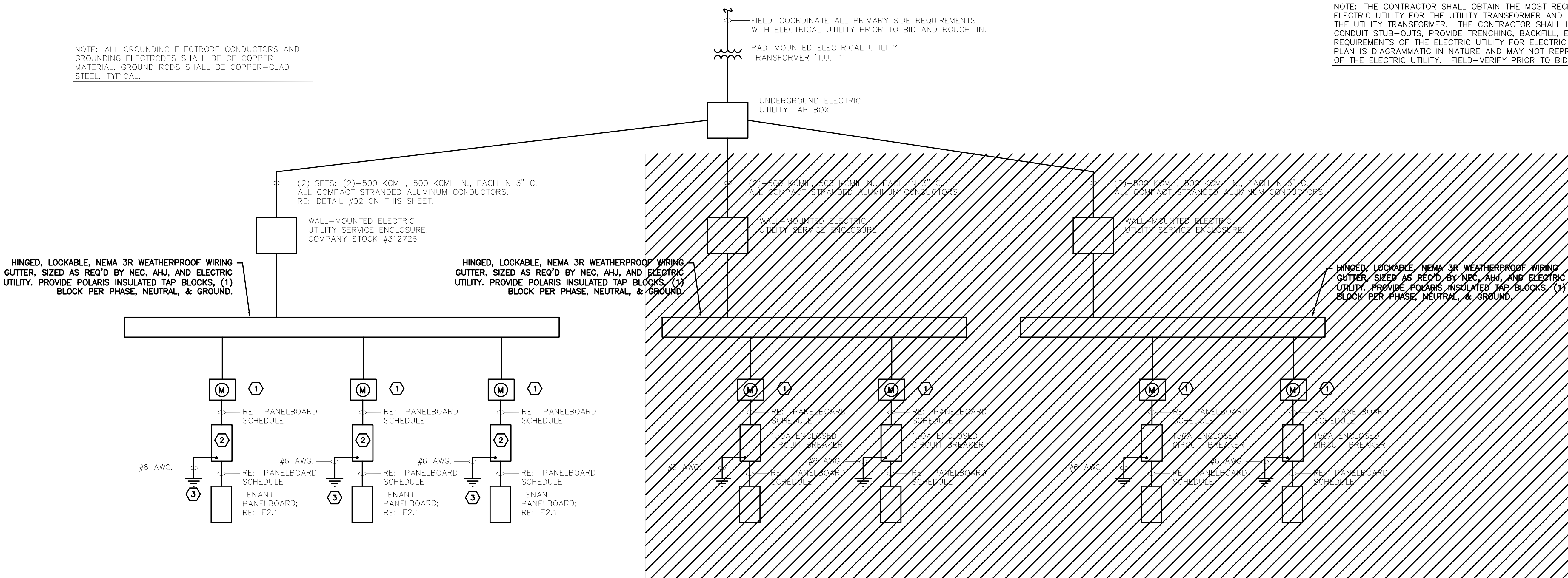
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REVISION HISTORY	DATE
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SHEET DESCRIPTION
ELECTRICAL
ONE-LINE
DIAGRAM

SHEET NUMBER

E6.1



NOTE: THE CONTRACTOR SHALL OBTAIN THE MOST RECENT DESIGN PLANS FROM THE ELECTRIC UTILITY FOR THE UTILITY TRANSFORMER AND PRIMARY SIDE INFRASTRUCTURE TO THE UTILITY TRANSFORMER. THE CONTRACTOR SHALL INSTALL CONDUITS, PULLBOXES, CONDUIT STUB-OUTS, PROVIDE TRENCHING, BACKFILL, ETC. ACCORDING TO THE REQUIREMENTS OF THE ELECTRIC UTILITY FOR ELECTRIC SERVICE TO THE PROJECT. THIS PLAN IS DIAGRAMMATIC IN NATURE AND MAY NOT REPRESENT THE MOST RECENT DESIGN OF THE ELECTRIC UTILITY. FIELD-VERIFY PRIOR TO BID AND ROUGH-IN.

01 ELECTRICAL ONE-LINE DIAGRAM - TRANSFORMER 'T.U.-1'
SCALE: NO SCALE

PLUMBING LEGEND

(NOTE: ALL SYMBOLS SHOWN ARE NOT NECESSARILY USED ON DRAWINGS)

SYMBOL LEGEND	
	<p>VALVES</p> <p>UNION</p> <p>BUTTERFLY VALVE</p> <p>TEMPERATURE/ PRESSURE RELIEF VALVE</p> <p>GLOBE VALVE</p> <p>CHECK VALVE</p> <p>GATE VALVE</p> <p>GATE VALVE WITH C.I. VALVE BOX</p> <p>PRESSURE REDUCING VALVE</p> <p>STRAINER W/ BLOWDOWN GATE VALVE</p> <p>THERMOWELL W/ THERMOMETER (TI)</p> <p>PRESSURE GAUGE W/ GAUGE COCK (PI)</p> <p>BALL VALVE</p> <p>CIRCUIT SETTER, BALANCING VALVE (B&G CB-SERIES)</p> <p>PLUG VALVE</p> <p>NEEDLE VALVE</p> <p>VALVE IN VERTICAL</p> <p>DIRT LEG (6" LONG)</p> <p>PIPING</p> <p>DOMESTIC COLD WATER (DOMESTIC/POTABLE)</p> <p>DOMESTIC HOT WATER SUPPLY (120°F)</p> <p>DOMESTIC HOT WATER RETURN (120°F)</p> <p>SANITARY SEWER</p> <p>HVAC CONDENSATE DRAIN (UNDERGROUND)</p> <p>HVAC CONDENSATE DRAIN (ABOVE GROUND)</p> <p>SANITARY VENT</p> <p>STORM DRAIN</p> <p>EMERGENCY OVERFLOW DRAIN</p> <p>DIRECTION OF FLOW</p> <p>NATURAL GAS</p> <p>HIGH PRESSURE GAS</p> <p>WATER HAMMER ARRESTOR (PLAN)</p> <p>WATER HAMMER ARRESTOR (ISOMETRIC)</p> <p>FLOOR CLEANOUT</p> <p>WALL CLEANOUT</p> <p>P - TRAP</p> <p>ELBOW TURNING DOWN</p> <p>ELBOW TURNING UP</p> <p>CAPPED PIPE</p> <p>FLEXIBLE CONNECTION</p> <p>CONCENTRIC PIPE REDUCER/INCRASER</p> <p>ECCENTRIC PIPE REDUCER/INCRASER</p> <p>PIPE SLEEVE</p> <p>DIRECTION OF SLOPE (DNWARD)</p> <p>FLOOR DRAIN</p> <p>VENT THRU ROOF (RISER)</p> <p>VENT THRU ROOF (PLAN)</p> <p>SANITARY WASTE OR VENT STACK WASTE OR VENT NO.</p> <p>STORM DRAIN DOWNSPOUT</p> <p>STORM DRAIN DOWNSPOUT NO.</p>

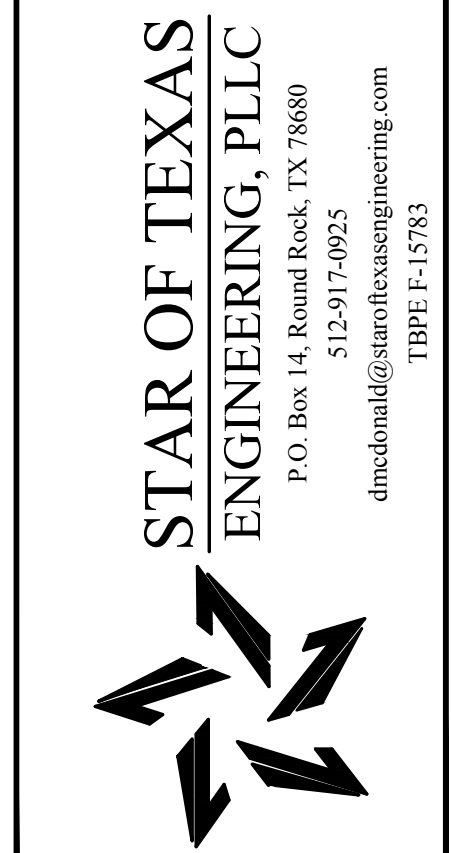
ABBREVIATIONS	
B	B. VA. BALL VALVE
BAL	BAL. VA. CKT. SETTER BALANCING VALVE
C	CO CLEANOUT
CW	DOM. COLD WTR. (POTABLE)
D	CONDENSATE DRAIN LINE
EOD	EMERGENCY OVERFLOW DRAIN
EXT FCO	EXTERIOR FLOOR CLEANOUT
FCO	FLOOR CLEANOUT
FD (OR) SD	FIRE / SMOKE DAMPER
GT. V	GATE VALVE
GL. V	GLOBE VALVE
G	NATURAL GAS
HPG	HIGH PRESSURE NATURAL GAS
HW	DOMESTIC HOT WATER 140°F
NPW	NON-POTABLE WATER (COLD)
PW	DOMESTIC COLD WATER
PI	PRESSURE INDICATOR (GAUGE)
RED.	REDUCER
SAN	SOIL & WASTE (ABOVE GRADE)
SD	STORM DRAIN
TI	TEMP. INDICATOR (THERMOMETER)
T.&P.	TEMP. & PRESS. RELIEF VALVE
VD	VOLUME DAMPER
VIR	VENT THRU ROOF
V	SANITARY VENT
WHA	WATER HAMMER ARRESTOR
WCO	WALL CLEANOUT

PLUMBING FIXTURE SCHEDULE				
MARK	FIXTURE	TRIM & ACCESSORIES	SUPPORT	REMARKS
WC-1	WATER CLOSET, FLOOR MOUNTED FLUSH TANK, ADA, VORTEN NO. 3140-V-02	STOP: MCGUIRE NO. 2169-YK SEAT: PROFLO NO. PFTSW2000WH FLOOR FLANGE: JONES NO. CF4-SERIES	FLOOR MOUNTED	ADA COMPLIANT, 1.28-GPF
L-1	LAVATORY, WALL HUNG, ADA KOHLER NO. K-1728	FAUCET: MOEN COMMERCIAL NO. 8800 MIXING VALVE: SYMMONS NO. 4-10(B) OFFSET STRAINER: MCGUIRE NO. 155WC STOPS: CHICAGO FAUCET NO. 1006 TRAP: MCGUIRE NO. 8872-C-F STOP & TRAP COVERS: PLUMBEREX 'HANDY SHIELD'	ROUGH-IN BRACKET - SIOUX CHIEF "PIPE TITAN" NUMBER 572-2X SERIES ZURN NO. ZR-1224/-SERIES LAVATORY CARRIER	ADA COMPLIANT, 0.5 GPM AERATOR
SK-1	UTILITY SINK, KINGSFORD 25"x22" STAINLESS STEEL 6" DEEP	FAUCET: MOEN COMMERCIAL NO. 67430 OFFSET STRAINER-MCGUIRE NO. 1151AWC STOPS: CHICAGO FAUCET NO. 1006 TRAP: MCGUIRE NO. 8812-C-F STOP & TRAP COVERS: PLUMBEREX	ROUGH-IN BRACKET - SIOUX CHIEF "PIPE TITAN" NUMBER 572-2X SERIES	ADA COMPLIANT, 2.2 GPM AERATOR
HB-1	HOSE BIBB, WATTS MODEL NO. SCB-4	EXPOSED, CAST BRASS HOSE BIDD WITH TAMPER-PROOF VACUUM BREAKER	SET IN WALL	
FCO	FLOOR CLEANOUT J.R. SMITH NO. 4053-F-C-U-NB (OR WATTS APPROVED EQUAL)	HEAVY DUTY TOP, TAPER THREAD BRONZE PLUG, NICKLE BRONZE TOP	SET IN CONCRETE FLOOR	TOP FLUSH WITH FINISHED FLOOR
WCO	WALL CLEANOUT J.R. SMITH NO. 4532-U-Y (OR WATTS APPROVED EQUAL)	NO-HUB CONNECTIONS, TAPER THREAD BRONZE PLUG, STAINLESS STEEL ACCESS COVER VANDAL PROOF SCREW	SET IN WALL	COVER FLUSH WITH FINISHED WALL
WHA	WATER HAMMER ARRESTORS J.R. SMITH NO. 5000-SERIES	STAINLESS STEEL BELOWS TYPE	IN LINE	
WATER SUPPLY BALL VALVES (ABV. GRD.)	APOLLO 70-100	600 PSI, TEFLON SEAT, CAST BRASS, BLOMENT PROOF STEM, FULL PORT, CHROME BALL, THREADED END	IN LINE	

PLUMBING FIXTURE CONNECTION SCHEDULE					
MARK	FIXTURE	COLD WATER	HOT WATER	WASTE (SANITARY)	VENT (SANITARY)
WC-1	WATER CLOSET, FLOOR MOUNTED FLUSH TANK, VITREOUS CHINA, ADA	1/2"	-	4"	2"
L-1	LAVATORY, WALL HUNG, VITREOUS CHINA, ADA	1/2"	1/2"	2"	2"
SK-1	UTILITY SINK, DOUBLE COMPARTMENT, COUNTER TOP, STAINLESS STEEL, ADA	1/2"	1/2"	2" W/ 2"WCO	-
HB-1	HOSE BIBB	1/2"	-	-	-

PIPING SCHEDULE					
SYMBOL	SERVICE	PIPE MATERIAL	TYPE JOINT	FITTINGS	TEST
—————	SANITARY WASTE	SCHEDULE 40 PVC DWV	PRIME AND SOLVENT WELD	SCHEDULE 40 PVC FITTINGS (DWV)	PER LOCAL JURISDICTION
-----	SANITARY VENT	SCHEDULE 40 PVC DWV	PRIME AND SOLVENT WELD	SCHEDULE 40 PVC FITTINGS (DWV)	PER LOCAL JURISDICTION
----- -D-----	DOMESTIC WATER BELOW GRADE	VEGA PEX PIPING	VEGA PEX SOLUTIONS	VEGA PEX FITTINGS	PER LOCAL JURISDICTION
----- -D-----	DOMESTIC WATER ABOVE GRADE	VEGA PEX PIPING	VEGA PEX SOLUTIONS	VEGA PEX FITTINGS	PER LOCAL JURISDICTION

NOTE:
ALL DOMESTIC WATER PIPING - BOTH HOT AND COLD SHALL BE INSULATED WITH PRE-FORMED FIBERGLASS PIPE INSULATION (MIN. THICKNESS=1", DOMESTIC HOT WATER 1-1/2" AND LARGER SHALL BE MIN. 1-1/2" THICKNESS) AS MANUFACTURED BY OWENS-CORNING SSL-11 OR EQUAL. INSTALLATION WILL INCLUDE "ALL SERVICE JACKET" WITH SELF-SEALING LAP JOINTS. PROPER SEALANTS AND ACCESSORIES SHALL BE USED TO ACHIEVE MANUFACTURER COMPLETE RECOMMENDED INSTALLATION. FLAME SPREAD RATING SHALL BE 25 OR LESS. SMOKE DEVELOPMENT RATING WILL BE 50 OR LESS. INSULATED PIPE SHALL BE INSTALLED SUCH THAT INSULATION REMAINS FULL THICKNESS AND WATER VAPOR BARRIER REMAINS INTACT.



MAYFIELD OFFICE PARK
3-UNIT BUILDING
3835 COUNTY ROAD 175
LEANDER, TX 78641

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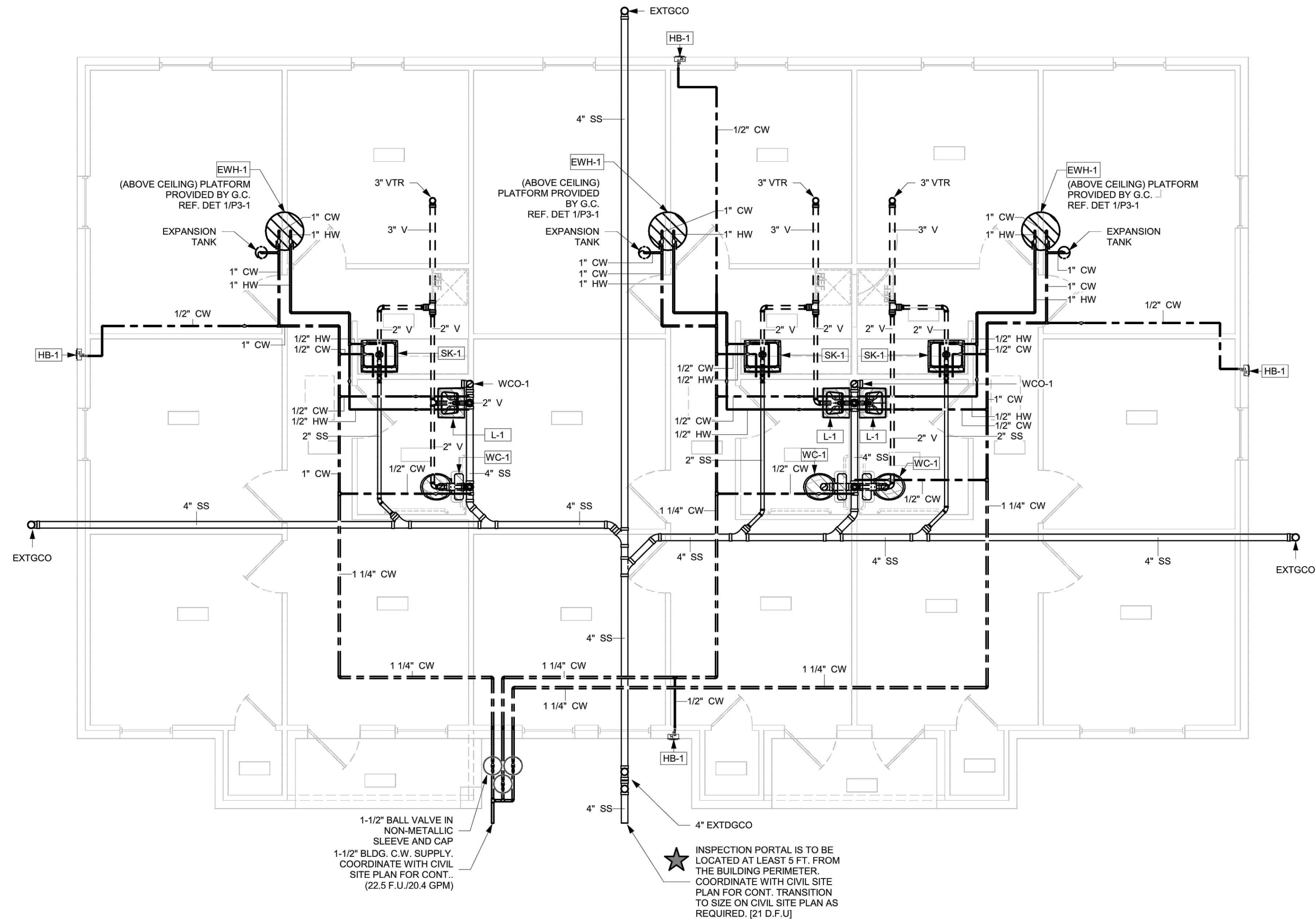
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DESCRIPTION	02-22-2023
BY	
REVIEW	

SHEET DESCRIPTION
Symbols/Legend & Abbr. - PLBG

SHEET NUMBER
P1-0

MAYFIELD OFFICE PARK
3-UNIT BUILDING

3835 COUNTY ROAD 175
 LEANDER, TX 78641



1-1/2" BALL VALVE IN NON-METALLIC SLEEVE AND CAP
 1-1/2" BLDG. C.W. SUPPLY.
 COORDINATE WITH CIVIL SITE PLAN FOR CONT.
 (22.5 F.U./20.4 GPM)

★ INSPECTION PORTAL IS TO BE LOCATED AT LEAST 5 FT. FROM THE BUILDING PERIMETER. COORDINATE WITH CIVIL SITE PLAN FOR CONT. TRANSITION TO SIZE ON CIVIL SITE PLAN AS REQUIRED. [21 D.F.U.]

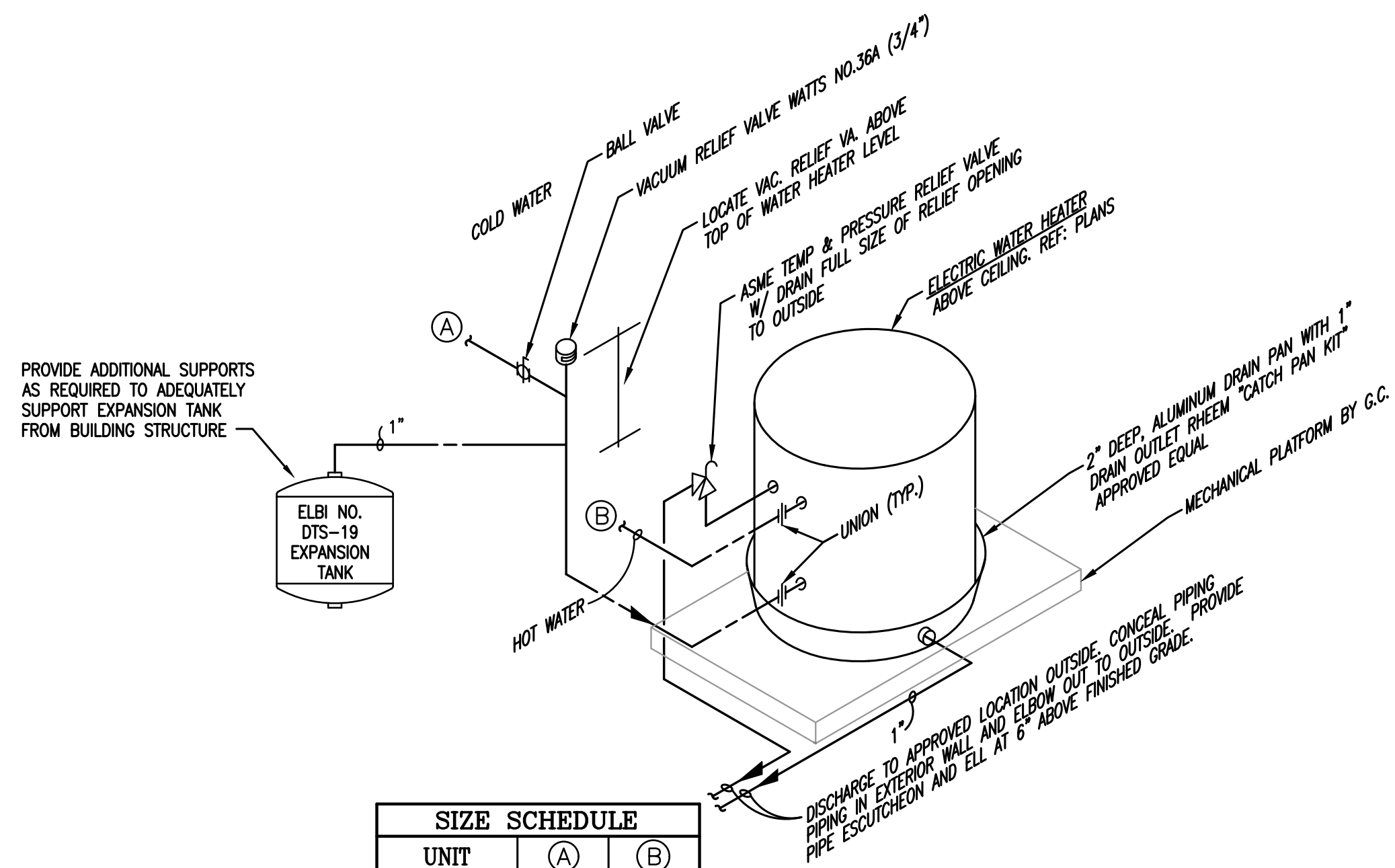
1 3 Unit - Floor Plan - Plumbing
 SCALE: 1/4" = 1'-0"
 PLAN NORTH

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SHEET DESCRIPTION
Floor Plan - Plumbing

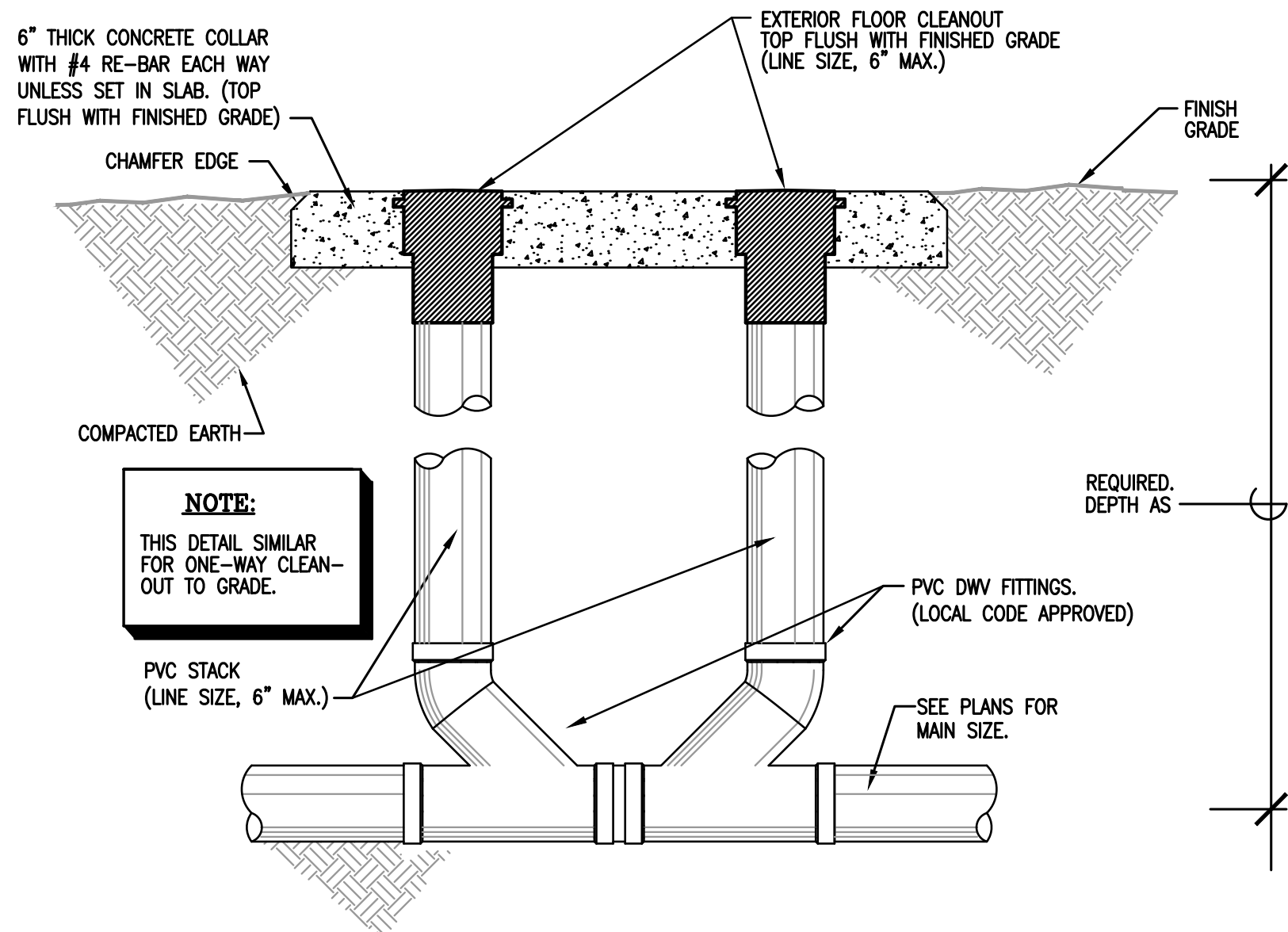
SHEET NUMBER
P2-1



SIZE SCHEDULE		
UNIT	(A)	(B)
EWH-1	1"	1"

ELECTRIC WATER HEATER SCHEDULE					
MARK	RECOVERY GPH AT 100°F RISE	KW	VOLTS, PHASE CYCLES	STORAGE CAPACITY (GALLONS)	REMARKS
EWH-1	24	2	120/1/60	6	RHEEM NO. 81VP-6S

1 WATER HEATER DETAIL
SCALE: NOT TO SCALE



2 TYPICAL DOUBLE TWO-WAY EXTERIOR FLOOR CLEANOUT DETAIL
SCALE: NOT TO SCALE

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SHEET DESCRIPTION
Plumbing Details

SHEET NUMBER
P3-1