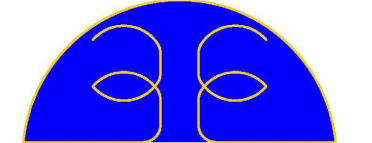


GENERAL NOTES

- A. FURNISH FIXTURES WITH TRIM COMPATIBLE WITH THE TYPE OF CEILING AS INDICATED.
- B. CONNECT EXIT/EMERGENCY LIGHTS AND EMERGENCY BALLASTS IN EMERGENCY LIGHTS IN EACH SPACE TO UN-SWITCHED HOT LEGS OF THE LOCAL LIGHTING CIRCUIT.
- C. COORDINATE PLACEMENT OF LIGHT FIXTURE WITH ACTUAL INSTALLATION OF MECHANICAL EQUIPMENT AND DUCTWORK.
- D. COORDINATE INSTALLATION OF CONDUIT WITH OTHER TRADES PRIOR TO ROUGH-IN.
- E. PROVIDE LUMINAIRES, AND ACCESSORIES FOR ALL LIGHTING SYSTEMS, COMPLETE AND OPERABLE, IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.
- F. EXTERIOR LIGHTS, OTHER THAN EMERGENCY LIGHTS, BUILDING FACADE OR LANDSCAPE, TO BE DIMMED AT 30% BETWEEN MIDNIGHT AND 6:00AM. USE OF LIGHT FIXTURE INTEGRATED CONTROLS AND PHOTOCCELL, OR USE OF LIGHTING CONTRACTOR WITH PHOTOCCELL, DIMMER AND TIMER. EXCEPTION: LIGHTING FOR COVERED VEHICLE ENTRANCES OR EXITS FROM BUILDINGS OR PARKING STRUCTURE WHERE REQUIRED FOR SAFETY, SECURITY OR EYE ADAPTATION.
- G. PROPOSED EQUIPMENT LOAD MIGHT NOT BE ACTUAL EQUIPMENT SELECTED. COORDINATE DIMENSIONS, ELEVATIONS, AND IN ANY CASE OF DISCREPANCIES ASK QUESTIONS TO ENGINEER, ARCHITECT, OR OWNER BEFORE ROUGH IN.
- H. BALANCE LOADS ON ALL THREE PHASES AS MUCH AS POSSIBLE.
- I. RELOCATE CIRCUIT LOADS IN PANEL TO BETTER ARRANGE CONDUITS FOR INSTALLATION.
- J. FIRE ALARM ANNUNCIATOR, CONTROL PANEL, PULL STATIONS AND AUDIBLE AND VISUAL SIGNALS TO BE DONE AND COORDINATED WITH A LICENSE FIRE ALARM SYSTEM INSTALLER. AND FOR THE INSTALLER TO PROVIDE SEALED DRAWINGS BEFORE ACTUAL INSTALLATION. PROPOSED DESIGN ON THESE DRAWINGS IS AN INDICATOR OF THE NEED FOR A FIRE ALARM SYSTEM.
- K. ALL DATA AND PHONE WIRES TO BE INSTALLED FROM IT RM TO THE DATA AND PHONE RECEPTACLES INDICATED IN PLANS. COORDINATE WITH OWNER, ARCHITECT AND ENGINEER FOR ANY QUESTIONS BEFORE ROUGHT IN AND TERMINATION.



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**QUAD CITY FIRE STATION &
JUSTICE OF PEACE
EXPANSION**

23235 SH 359
ABST 2655 SUR 822 H E & W T 2.53 ACS
BRUNI, TEXAS 78344



NO.	DESCRIPTION	REV.	DATE
1	BID PERMIT SET		10/25/2022

SITE PLAN

Project number EED-19051 EED-22110
Date 10/25/2022
Drawn by FG
Checked by EED

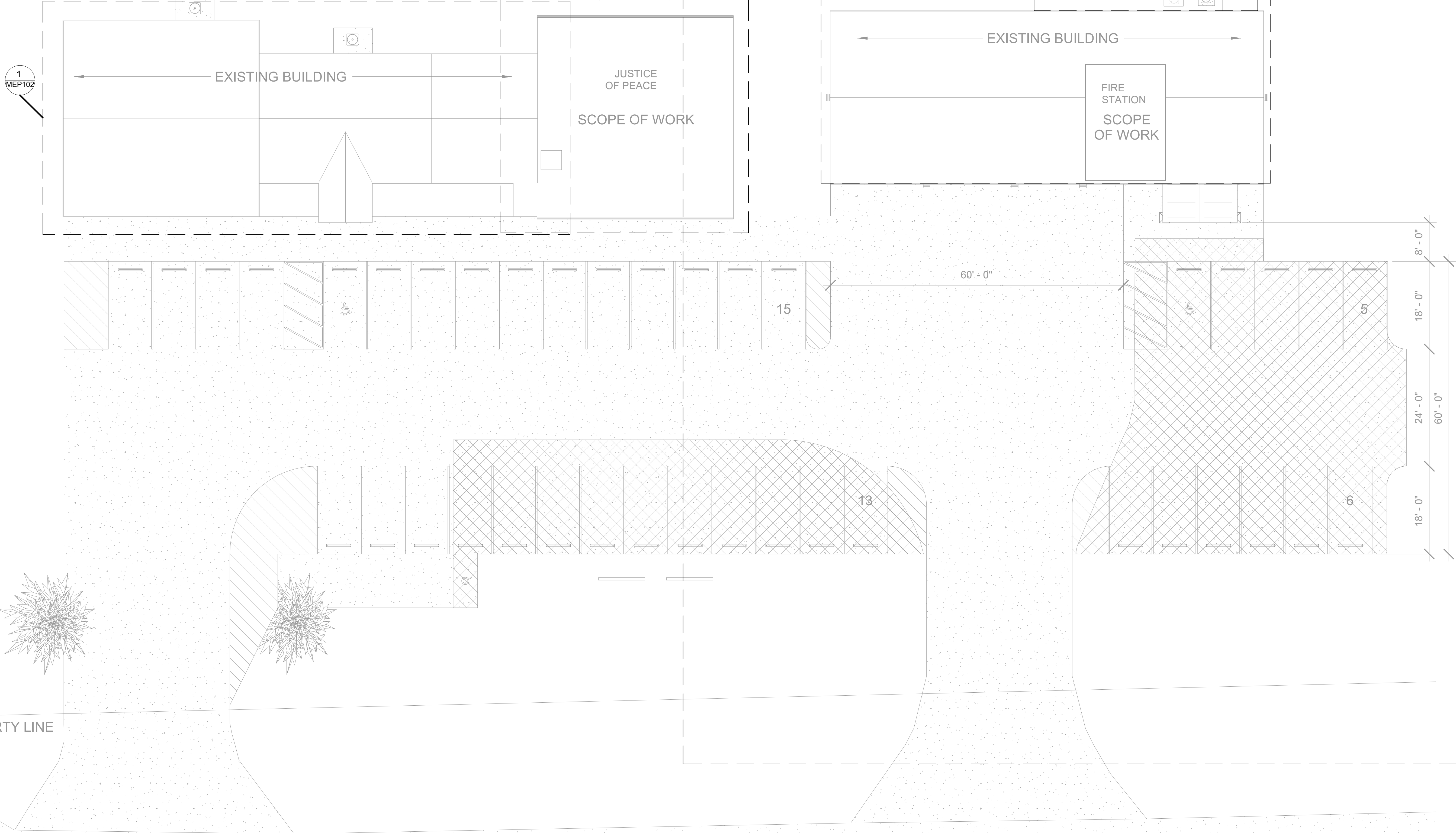
MEP100
Scale 3/32"=1'

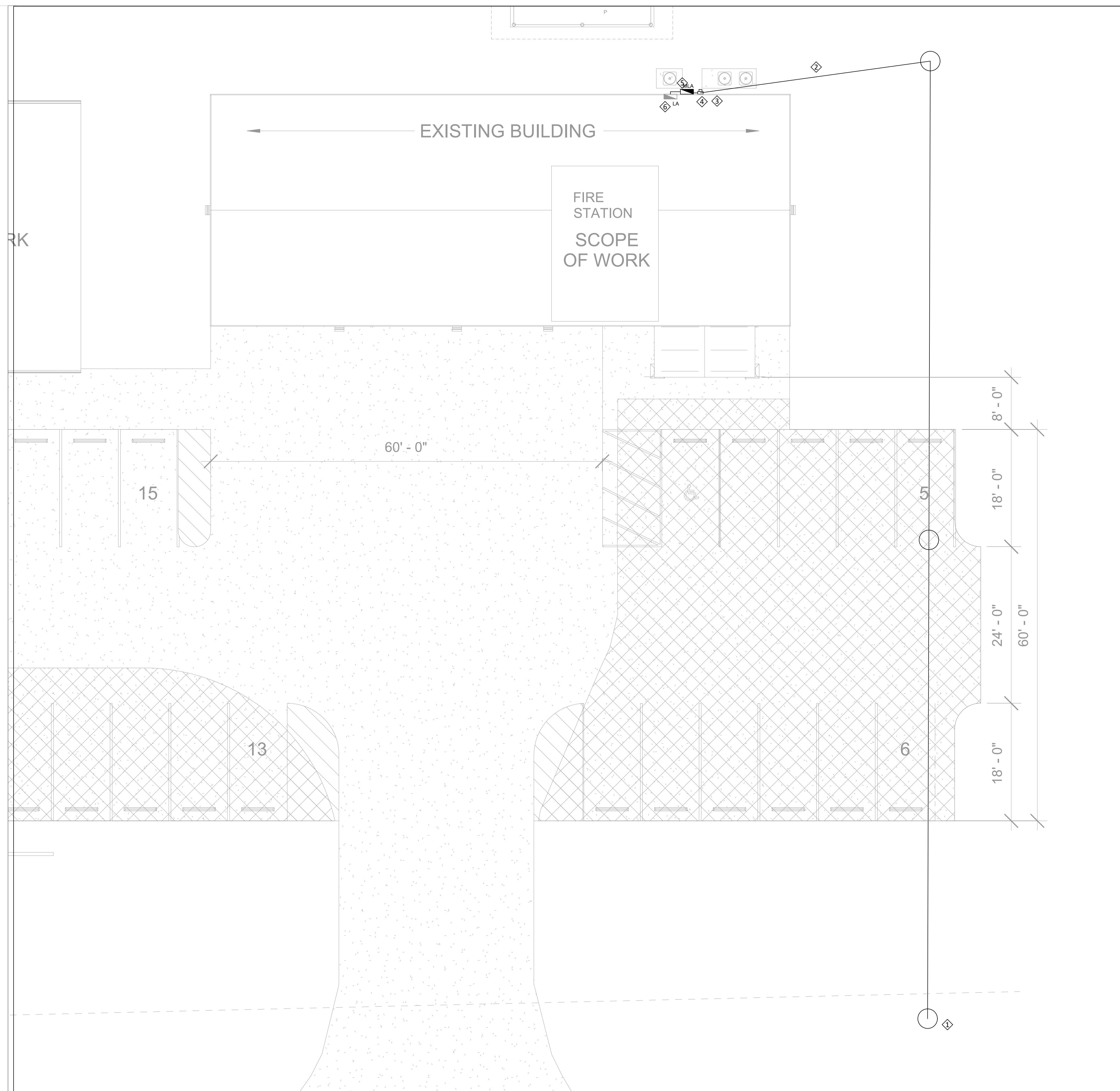
PROPERTY LINE

PROPERTY LINE

HIGHWAY 359

1 SITE PLAN
3/32" = 1'-0"





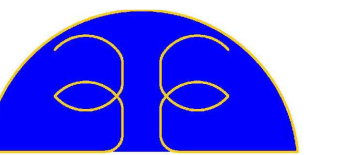
1 MEP ELECTRICAL SERVICE
1/8" = 1'-0"

GENERAL NOTES

- A. AEP SERVICE COULD CHANGE CONFIGURATION BASED ON THEIR ACTUAL EQUIPMENT. COORDINATE WITH AEP PRIOR TO PURCHASING SERVICE EQUIPMENT. PROVIDE INSTALLATION EQUIPMENT AND MATERIAL BASED ON AEP REQUIREMENTS.
- B. REFER TO ELECTRICAL SCHEDULES SHEET FOR EQUIPMENT DISCONNECTS SWITCH.
- C. REFER TO GENERAL NOTES ON SHEET E-000, BEFORE STARTING ELECTRICAL INSTALLATION.
- D. EQUIPMENT LOCATION IS PROPOSED, PROPER INVESTIGATION OF EXISTING CONDITIONS SHALL BE DONE BEFORE INSTALLATION.

KEYED NOTES

1. EXISTING 100A AEP OVERHEAD POWER SERVICE TO BE UPGRADED TO 225A.
2. ACTUAL DESIGN OF AEP SERVICE TO BE PROVIDED BY AEP. ACTUAL LOCATION TO BE FIELD VERIFIED AND COORDINATED WITH OTHER UTILITIES. COMPLY WITH AEP REQUIREMENTS AND FEES.
3. METER SOCKET. INSTALLATION OF METER AS REQUIRED BY AEP.
4. PROPOSED LOCATION OF PANEL MLA WITH MAIN DISCONNECT CIRCUIT BREAKER.
5. POWER SERVICE AND FEEDER CONDUCTORS AND CONDUITS RATING AS INDICATED IN THE WIRE SCHEDULE.
6. EXISTING PANEL LA.



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QUAD CITY FIRE STATION & JUSTICE OF PEACE EXPANSION
23235 SH 359
ABST 2655 SUR 822 H E & W T 2.53 ACS
BRUNI, TEXAS 78344



NO.	DESCRIPTION	REV.	DATE
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MEP POWER SERVICE - FIRE STATION

Project number EED-19051 EED-22110
Date 10/25/2022
Drawn by FG
Checked by EED

MEP101
Scale 1/8"=1'



**QUAD CITY FIRE STATION &
JUSTICE OF PEACE
EXPANSION**

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**MEP POWER
SERVICE- JUSTICE
OF THE PEACE**

Project number EED-19051 EED-22110
Date 10/25/2022
Drawn by FG
Checked by EED

MEP102
Scale 3/16"=1'

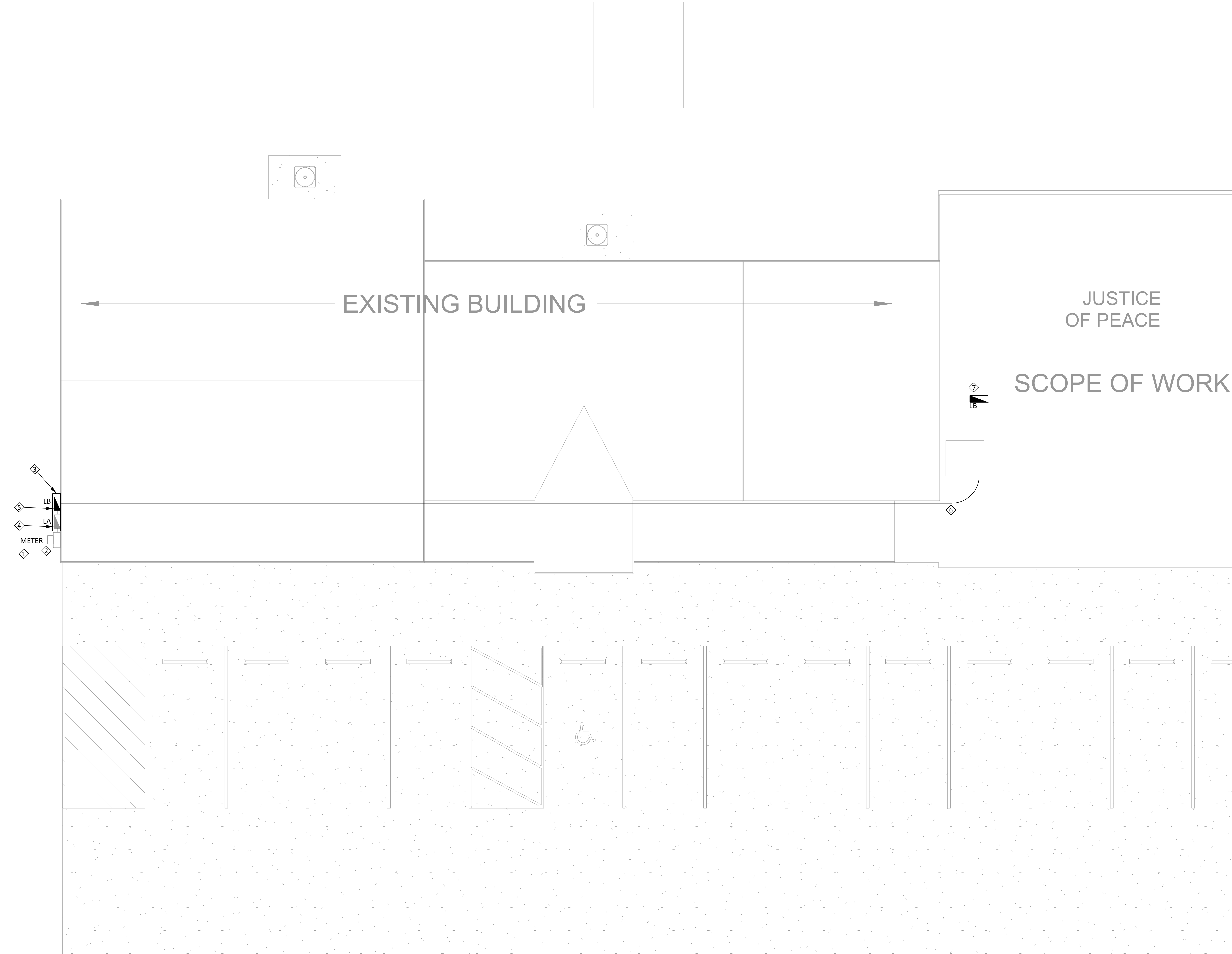
GENERAL NOTES

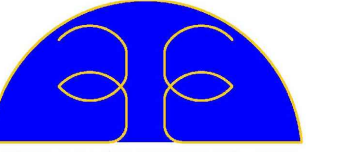
- A. AEP SERVICE COULD CHANGE CONFIGURATION BASED ON THEIR ACTUAL EQUIPMENT. A PADMOUNT TRANSFORMER COULD BE USED INSTEAD OF OVERHEAD TRANSFORMERS. COORDINATE WITH AEP PRIOR TO PURCHASING SERVICE EQUIPMENT. PROVIDE INSTALLATION EQUIPMENT AND MATERIAL BASED ON AEP REQUIREMENTS.
- B. REFER TO ELECTRICAL SCHEDULES SHEET FOR EQUIPMENT DISCONNECTS SWITCH.
- C. REFER TO GENERAL NOTES ON SHEET E-0.0, BEFORE STARTING ELECTRICAL INSTALLATION.
- D. EQUIPMENT LOCATION IS PROPOSED, PROPER INVESTIGATION OF ACTUAL CONDITIONS SHALL BE DONE BEFORE INSTALLATION.

KEYED NOTES

- 1. EXISTING POWER UTILITY (PU) POWER SERVICE. THIS MIGHT HAVE TO BE UPGRADED TO ACCOMMODATE ADDED ELECTRICAL LOAD.
- 2. EXISTING PU METER SOCKET. A HIGHER RATING METER WILL BE NEEDED TO ACCOMMODATE ADDED ELECTRICAL LOAD.
- 3. ELECTRICAL GUTTER.
- 4. EXISTING MAIN DISCONNECT SWITCH MDS-A.
- 5. MAIN DISCONNECT SWITCH MDS-B. ACTUAL LOCATION TO BE FIELD COORDINATED. ADD AN ELECTRICAL GUTTER TO CONNECT BOTH MDS-A AND MDS-B TO THE METER
- 6. FEEDER CONDUCTORS AND CONDUITS RATING AS INDICATED IN WIRE AND CONDUIT SCHEDULE.
- 7. ELECTRICAL PANELBOARD LOCATION, FIELD VERIFY EXACT LOCATION WITH OTHER TRADES.

1 MEP ELECTRICAL SERVICE - JUSTICE OF THE PEACE
3/16" = 1'-0"





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**MECHANICAL
PLUMBING SITE
PLAN**

Project number	EED-19051	EED-22110
Date	10/25/2022	
Drawn by	FG	
Checked by	EED	

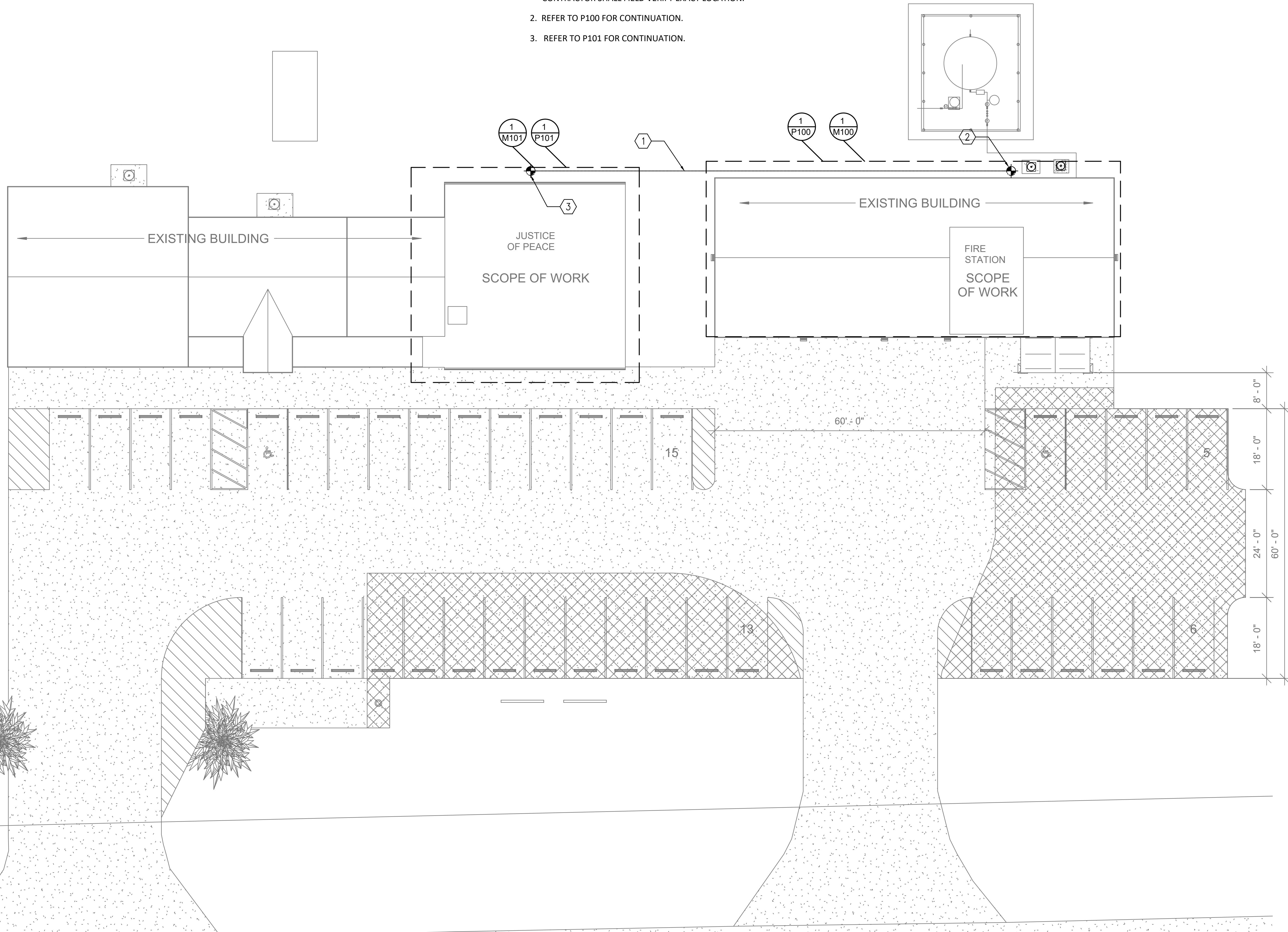
MP100

Scale 3/32"=1'

PLUMBING SITE NOTES:

1. ROUTE NEW 1" WATER LINE FROM NEW WATER SYSTEM TO NEW ADDITION AND EXISTING BUILDING WATER. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION.
2. REFER TO P100 FOR CONTINUATION.
3. REFER TO P101 FOR CONTINUATION.

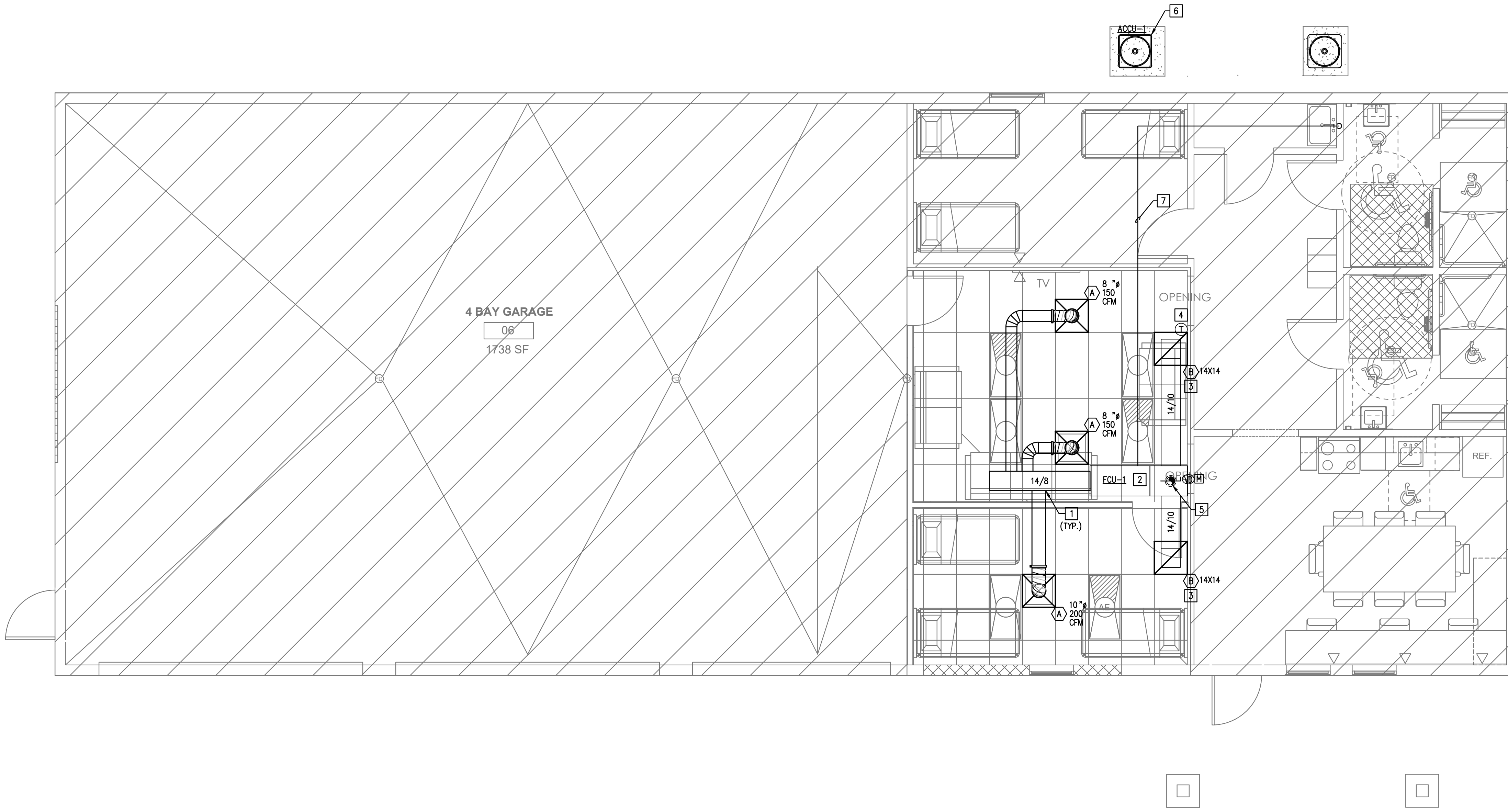
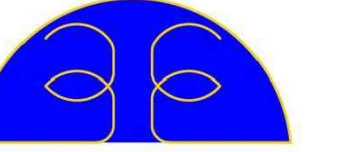
PROPERTY LINE



PROPERTY LINE

HIGHWAY 359

① MECHANICAL PLUMBING SITE PLAN
3/32"=1'-0"



1 MECHANICAL FLOOR PLAN - FIRE STATION
1/4" = 1'-0"

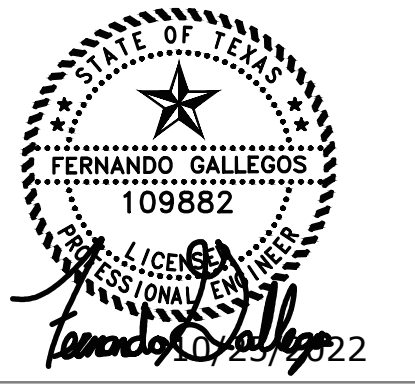
MECHANICAL GENERAL NOTES

1. CONTRACTOR SHALL BALANCE EACH SPACE WITH THE CFM SHOWN IN PLAN.
2. NEW PIPING AND DUCTWORK SHOWN ON PLAN ARE SCHEMATIC ONLY. CONTRACTOR SHALL COORDINATE WITH OTHER TRADES FOR PIPING AND DUCTWORK ROUTING, OFFSET AND RUN PIPING, DUCTWORK INSIDE THE STRUCTURE IF REQUIRED. PROVIDE ANY EXTRA PIPING, DUCTWORK, FITTINGS, INSULATIONS AND OTHER ACCESSORIES IN ORDER TO COMPLETE THE INSTALLATION.
3. COORDINATE LOCATIONS AND SIZES OF WALL OPENINGS WITH ARCHITECT AND STRUCTURE ENGINEERS.
4. EQUIPMENT SIZES, DIMENSIONS AND REQUIRED CONNECTIONS SHALL BE VERIFIED WITH THE VENDOR DRAWINGS BEFORE FABRICATION OF DUCTWORK, PIPING OR POURING OF THE CONCRETE HOUSEKEEPING PADS.
5. DUCT SIZES SHOWN ON PLANS ARE CLEAR INSIDE AIR STREAM DIMENSIONS.
6. CONTRACTOR SHALL COORDINATE ALL ELECTRICAL REQUIREMENTS FOR ALL HVAC EQUIPMENT PRIOR TO INSTALLATION.

MECHANICAL KEYED NOTES

- 1 PROVIDE SPIN IN DAMPER REFER TO DETAILS.
- 2 PROVIDE FAN COIL UNIT AS SCHEDULED.
- 3 PROVIDE FILTERED RETURN AIR GRILLED AS SCHEDULED ON DOOR/WALL/CEILING. SIZE IS INDICATED ON PLAN.
- 4 PROVIDE 7 DAY PROGRAMMABLE THERMOSTAT. INSTALL SMOKE DETECTORS WHERE REQUIRED BY FIRE MARSHALL. THERMOSTAT SHALL BE COMPATIBLE WITH ALL OF THE UNITS ACCESSORIES AND PROGRAMMING. CONSULT WITH HVAC MANUFACTURER FOR RECOMMENDED THERMOSTAT.
- 5 PROVIDE 6" OA DUCT. ROUTE DUCT UP TO ROOF. PROVIDE ROOF CAP. PROVIDE VOLUME DAMPER IN THE VERTICAL DIRECTION.
- 6 PROVIDE 4" CONCRETE PAD.
- 7 ROUTE CONDENSATE DRAIN UP TO UTILITY SINK. PROVIDE CONDENSATE PUMP IF SLOPE CANNOT BE OBTAINED.

10/25/2022



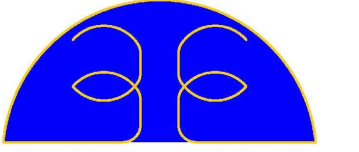
NO.	DESCRIPTION	REV.	DATE
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**MECHANICAL FLOOR PLAN
FIRE STATION**

Project number	EED-19051	EED-22110
Date	10/25/2022	
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M100

Scale



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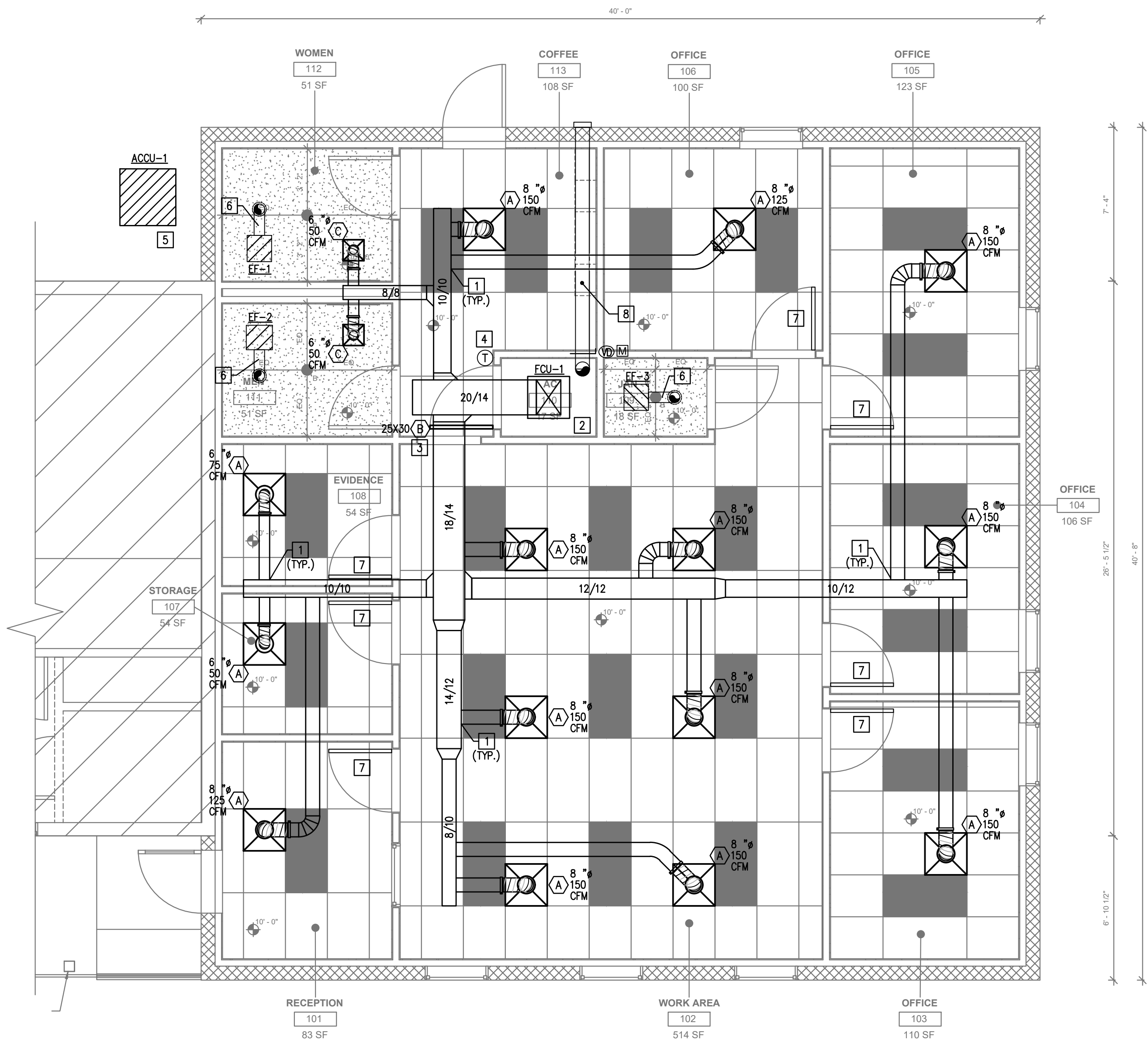


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**MECHANICAL FLOOR PLAN
JUSTICE OF THE PEACE**

Project number	EED-19051	EED-22110
Date	10/25/2022	
Drawn by	FG	
Checked by	EED	

M101
Scale 1/4"=1'



MECHANICAL GENERAL NOTES

- CONTRACTOR SHALL BALANCE EACH SPACE WITH THE CFM SHOWN IN PLAN.
- NEW PIPING AND DUCTWORK SHOWN ON PLAN ARE SCHEMATIC ONLY. CONTRACTOR SHALL COORDINATE WITH OTHER TRADES FOR PIPING AND DUCTWORK ROUTING, OFFSET AND RUN PIPING, DUCTWORK INSIDE THE STRUCTURE IF REQUIRED. PROVIDE ANY EXTRA PIPING, DUCTWORK, FITTINGS, INSULATIONS AND OTHER ACCESSORIES IN ORDER TO COMPLETE THE INSTALLATION.
- COORDINATE LOCATIONS AND SIZES OF WALL OPENINGS WITH ARCHITECT AND STRUCTURE ENGINEERS.
- EQUIPMENT SIZES, DIMENSIONS AND REQUIRED CONNECTIONS SHALL BE VERIFIED WITH THE VENDOR DRAWINGS BEFORE FABRICATION OF DUCTWORK, PIPING OR POURING OF THE CONCRETE HOUSEKEEPING PADS.
- DUCT SIZES SHOWN ON PLANS ARE CLEAR INSIDE AIR STREAM DIMENSIONS.
- CONTRACTOR SHALL COORDINATE ALL ELECTRICAL REQUIREMENTS FOR ALL HVAC EQUIPMENT PRIOR TO INSTALLATION.

MECHANICAL KEYED NOTES

- PROVIDE SPIN IN DAMPER. REFER TO DETAILS
- PROVIDE FCU AS SCHEDULED. PROVIDE PROPER SUPPORT. PROVIDE CONDENSATE PUMP.
- PROVIDE FILTERED AIR GRILLE AS SCHEDULED. SIZE IS INDICATED ON PLAN. PROVIDE PLENUM ABOVE GRILLES AND CONNECT TO RETURN AIR OPENING. DEPTH TO BE THE SAME HEIGHT AS UNIT.
- PROVIDE 7 DAY PROGRAMMABLE THERMOSTAT.
- PROVIDE 4" CONCRETE PAD FOR ACCU.
- PROVIDE 6" EXHAUST UP TO ROOF. PROVIDE ROOF CAP WITH BACK DRAFT DAMPER AND INSECT SCREEN.
- PROVIDE 1-1/2" UNDERCUT DOOR FROM A.F.F.
- PROVIDE 8" OUTSIDE AIR DUCT UP TO WALL. PROVIDE WALL LOUVER. PROVIDE VOLUME AND MOTORIZED DAMPER.

1 MECHANICAL FLOOR PLAN-JUSTICE OF THE PEACE
1/4" = 1'-0"

DX SPLIT SYSTEM SCHEDULE (ELECTRIC HEAT)			
INDOOR UNIT	GENERAL	MARK	FCU-1
		SERVES	LIVING SPACE
		SUPPLY AIR (CFM)	500
		OUTSIDE AIR (CFM)	50
		EXT. SP. (IN W.G.)	0.5
		FAN MOTOR HORSEPOWER	1/3
		BELT/DIRECT DRIVE	D
	COOLING COIL	TOTAL COOLING (MBH)	18.0
		SENSIBLE COOLING (MBH)	12.0
		ENTERING AIR TEMP. DB/WB (F)	72.0/61.1
	HEATING	LEAVING AIR TEMP. DB/WB (F)	54/55
		TOTAL HEATING (KW) / STAGES	5
		ENTERING AIR TEMP. DB (F)	68.10
	ELECTRIC	LEAVING AIR TEMP. DB (F)	85
		VOLTS/PHASE/HERTZ	240/1/60
	BASIS	MCA	28.5
		MOCP	30
		MANUFACTURER	CARRIER
MODEL		FX4D	
NOMINAL TONS		1.5	
CONDENSING UNIT	WEIGHT (LBS)	175	
	NOTES	2, 4, 5	
CONDENSING UNIT	GENERAL	MARK	ACCU-1
		STEPS OF CAPACITY	1
		SEER/VEER (ARI)	16
	ELECTRIC	AMBIENT AIR	110
		VOLTS/PHASE/HERTZ	240/1/60
		MCA	11.8
	BASIS	MOCP	20
		MANUFACTURER	CARRIER
		MODEL	24ACC6
		NOMINAL TONS	1.5
		WEIGHT (LBS)	150
		NOTES	1, 2, 3.
NOTES:			
1. PROVIDE CONDENSER COIL HAIL GUARDS.			
2. PROVIDE LOW AMBIENT CONTROL.			
3. PROVIDE REFRIGERANT PIPING IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.			
4. PROVIDE SINGLE POINT ELECTRICAL CONNECTION.			
5. PROVIDE PROGRAMABLE THERMOSTAT			

AIR DEVICE SCHEDULE			
MARK	MFR. & MODEL	TYPE	REMARKS
A	TITUS TMS-AA	LOUVERED FACE SUPPLY AIR DIFFUSER	24"x24" FACE, ALUMINUM CONSTRUCTION WITH FRAME FOR LAY-IN CEILING.
B	355RSF1	FILTERED RETURN AIR GRILLE	STEEL CONSTRUCTION WITH FRAME FOR LAY IN CEILING. 1/2" BLADE SPACING, 35° DEFLECTION WITH BLADES PARALLEL TO LONG DIMENSION. PROVIDE O.B.D. FOR DUCTED EXHAUST.

- NOTES:
- REFER TO ARCHITECTURAL DRAWINGS FOR FINISH.
 - REFER TO MECHANICAL FLOOR PLAN FOR NECK SIZES.



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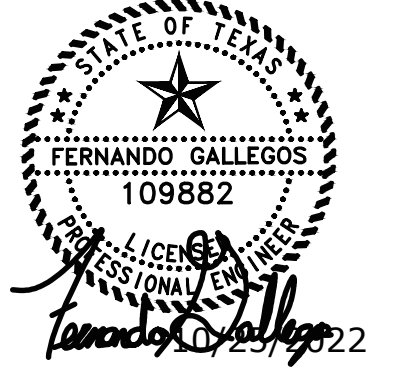
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QUAD CITY FIRE STATION &

**JUSTICE OF PEACE
EXPANSION**

23235 SH 359
ABST 2655 SUR 822 H E & W T 2.53 ACS
BRUNI, TEXAS 78344

10/25/2022



NO.	DESCRIPTION	REV.	DATE
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**MECHANICAL
SCHEDULES
FIRE STATION**

Project number EED-19051 EED-22110
Date 10/25/2022
Drawn by FG
Checked by EED

M200

Scale

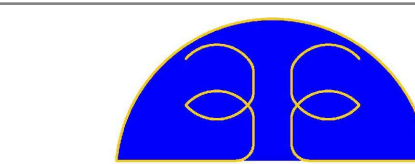
AIR DEVICE SCHEDULE			
MARK	MFR. & MODEL	TYPE	REMARKS
A	TITUS TMS-AA	LOUVERED FACE SUPPLY AIR DIFFUSER	24"x24" FACE, ALUMINUM CONSTRUCTION WITH FRAME FOR LAY-IN OR GYP BOARD CEILING.
B	TITUS 360FLF1	RETURN AIR GRILLE	ALUMINUM CONSTRUCTION WITH FRAME FOR SURFACE MOUNT. 3/4" BLADE SPACING. 35° DEFLECTION WITH BLADES PARALLEL TO LONG DIMENSION. PROVIDE O.B.D. FOR DUCTED EXHAUST.
C	TITUS TMS-AA	LOUVERED FACE SUPPLY AIR DIFFUSER	12"x12" FACE, ALUMINUM CONSTRUCTION WITH FRAME FOR SURFACE MOUNT.
NOTES: 1. REFER TO ARCHITECTURAL DRAWINGS FOR FINISH. 2. REFER TO MECHANICAL FLOOR PLAN FOR NECK SIZES.			

FAN SCHEDULE	
MARK	EF-1,2,3
SERVES	RR/JANITOR
TYPE/DRIVE	DIRECT
CFM	75
EXT. S.P. (IN. W.G.)	0.20
HORSEPOWER	21.8W
RPM (MAX.)	1,010
SONES (MAX.)	0.6
VOLTS/PHASE/HERTZ	120/1/60
MANUFACTURER	GREENHECK
MODEL NUMBER	SP-A125
NOTES	1,2
NOTES: 1. PROVIDE WITH BACKDRAFT DAMPER. 2. INTERLOCK FAN WITH SWITCH. 3. CONTROL FAN WITH THERMOSTAT.	

DX SPLIT SYSTEM SCHEDULE (ELECTRIC HEAT)		
	MARK	FCU-1
INDOOR UNIT	GENERAL	
	SERVES	OFFICE
	SUPPLY AIR (CFM)	1,975
	OUTSIDE AIR (CFM)	100
	EXT. SP. (IN. W.G.)	0.6
	FAN MOTOR HORSEPOWER	3/4
	BELT/DIRECT DRIVE	D
	COOLING COIL	
	TOTAL COOLING (MBH)	60.0
	SENSIBLE COOLING (MBH)	52.0
	ENTERING AIR TEMP. DB/WB (F)	72.0/61.6
	LEAVING AIR TEMP. DB/WB (F)	55.29/53.00
HEATING		
TOTAL HEATING (KW) / STAGES	10/2	
ENTERING AIR TEMP. DB (F)	67.80	
LEAVING AIR TEMP. DB (F)	94	
ELECTRIC		
VOLTS/PHASE/HERTZ	240/1/60	
MCA	53.8	
MOCOP	60	
BASIS		
MANUFACTURER	CARRIER	
MODEL	FV4CNB	
NOMINAL TONS	5	
WEIGHT (LBS)	207	
NOTES	2, 4, 5	
CONDENSING UNIT		
GENERAL		
MARK	ACCU-1	
STEPS OF CAPACITY	1	
SEER/EER (ARI)	14	
AMBIENT AIR	105	
ELECTRIC		
VOLTS/PHASE/HERTZ	240/1/60	
MCA	34.2	
MOCOP	50	
BASIS		
MANUFACTURER	CARRIER	
MODEL	24ACB4	
NOMINAL TONS	5	
WEIGHT (LBS)	400	
NOTES	1, 2, 3,	
NOTES: 1. PROVIDE CONDENSER COIL HAIL GUARDS. 2. PROVIDE LOW AMBIENT CONTROL. 3. PROVIDE REFRIGERANT PIPING IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. 4. PROVIDE SINGLE POINT ELECTRICAL CONNECTION. 5. PROVIDE THERMOSTAT. 6. PROVIDE DBD IONIZER TO MOUNTED IN THE SUPPLY AIR DUCT WITH VOC, PPM, AND OZONE MONITORING SENSOR IN THE RETURN DUCT.		



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MECHANICAL SCHEDULES JUSTICE OF THE PEACE

Project number EED-19051 EED-22110
Date 10/25/2022
Drawn by FG
Checked by EED

M201
Scale N.T.S.

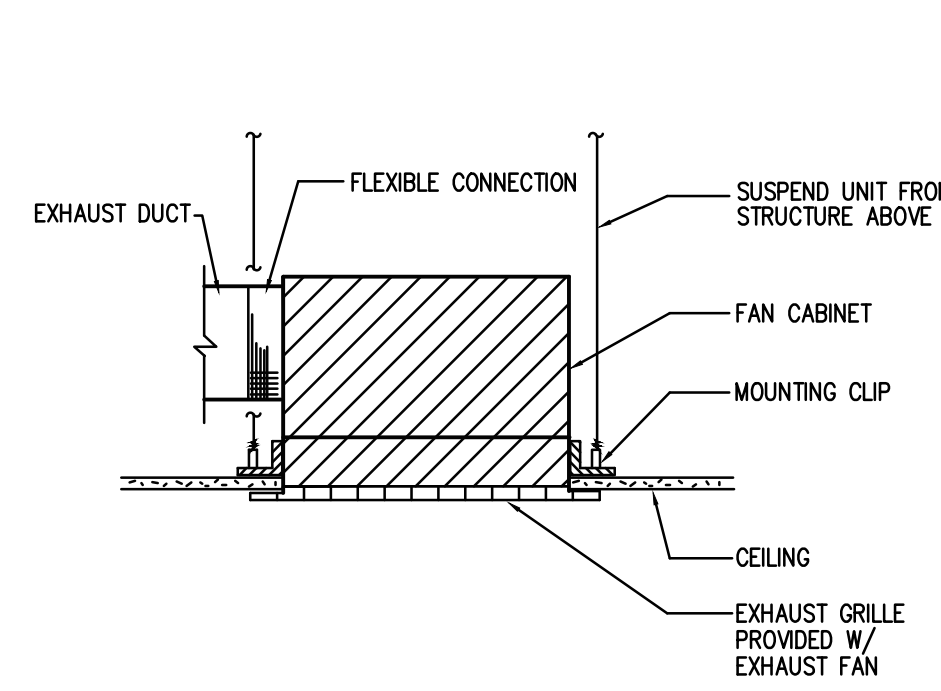


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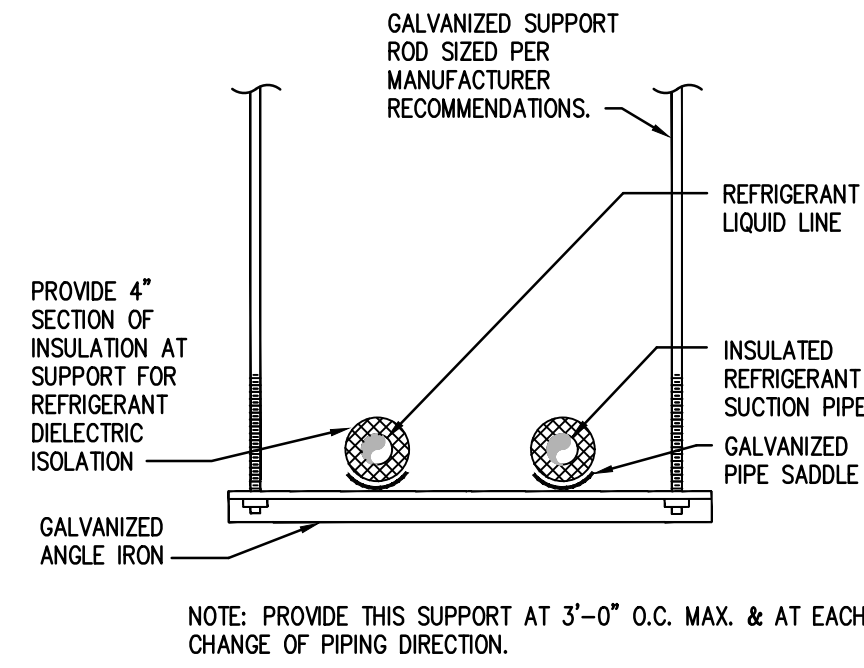


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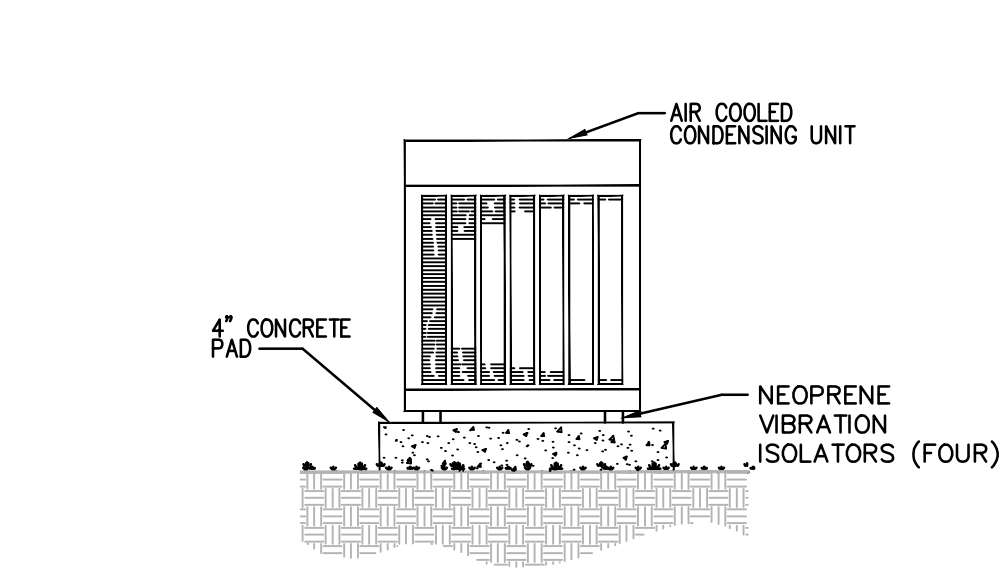
NOTE: PROVIDE FAN U.L. RADIATION DAMPER FOR FIRE RATED CEILING.

1 CEILING MOUNTED EXHAUST FAN
NOT TO SCALE



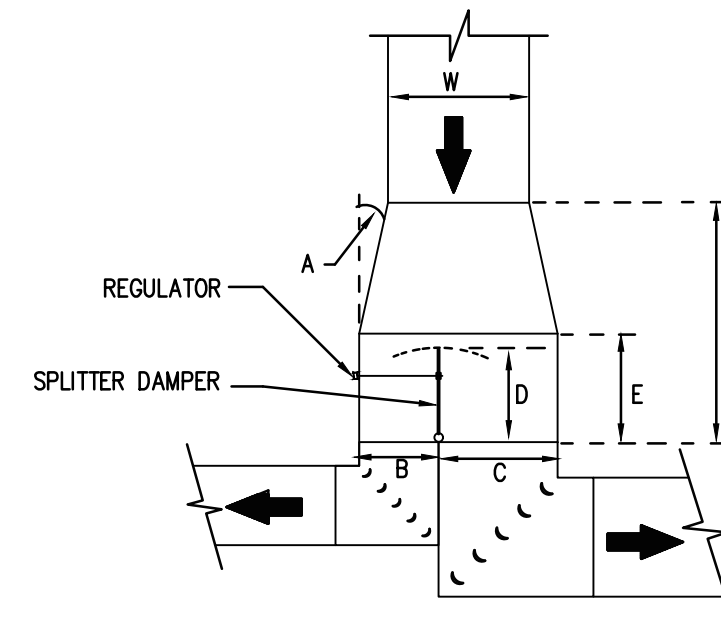
NOTE: PROVIDE THIS SUPPORT AT 3'-0" O.C. MAX. & AT EACH CHANGE OF PIPING DIRECTION.

2 REFRIGERANT PIPE HANGER
NOT TO SCALE



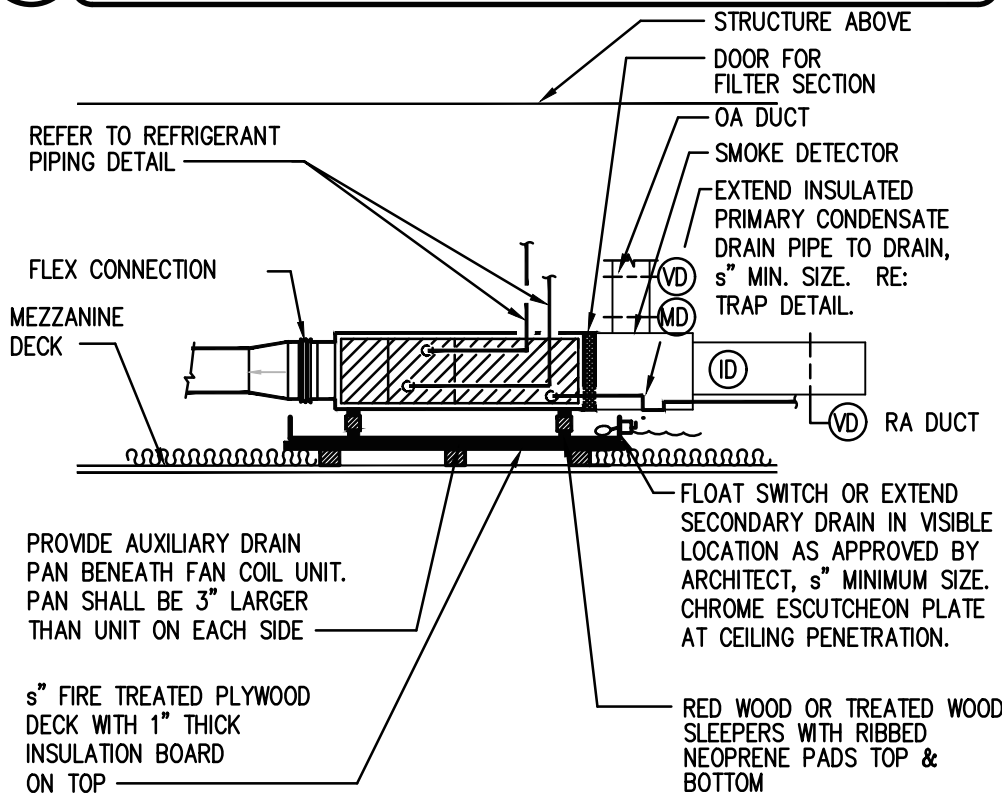
NOTE: CLEARANCE AROUND UNIT FOR AIR FLOW AND SERVICE PER MANUFACTURER INSTALLATION INSTRUCTION.

3 CONDENSING UNIT MOUNTING ON GRADE
NOT TO SCALE



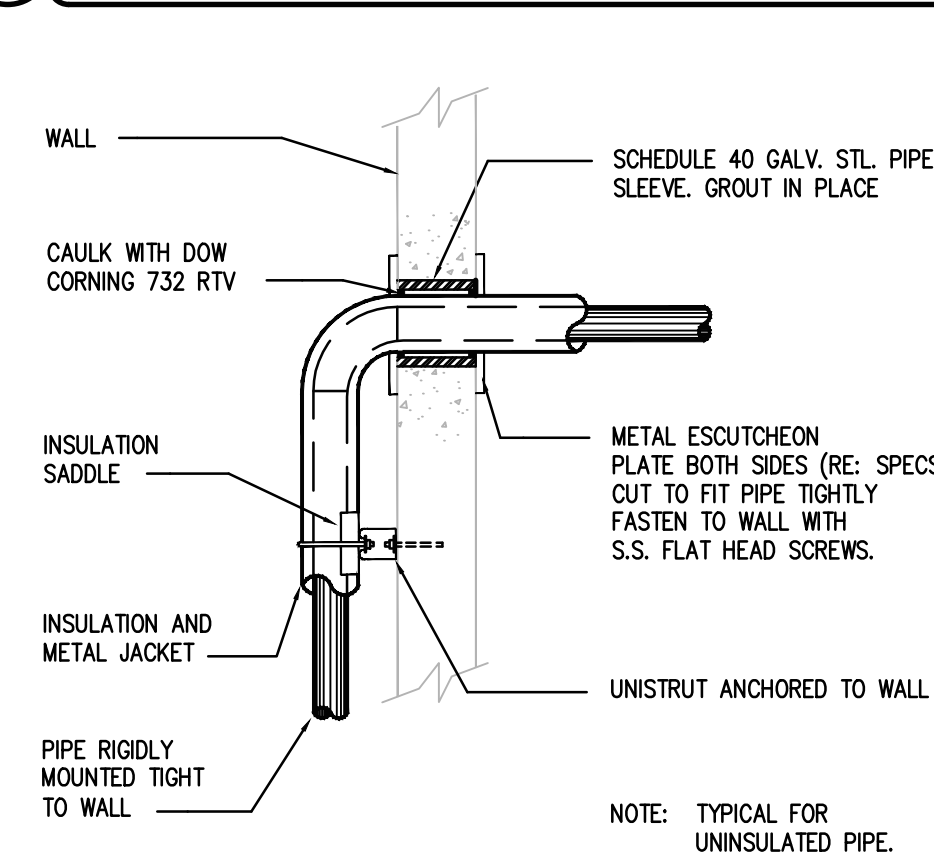
DIMENSIONAL RELATIONSHIPS
1. ANGLE 'A' TO BE 15° OR LESS (BOTH SIDES)
2. SEE FLOOR PLANS FOR B, C, & W.
3. D = 1.5 x B
4. E = D + 3" MINIMUM
5. VERTICAL DIMENSION TO BE MAINTAINED THRU F.
6. CHANGE IN VERTICAL DIMENSION TO OCCUR AFTER TURNS.

4 SPLITTER DAMPER DETAIL
NOT TO SCALE



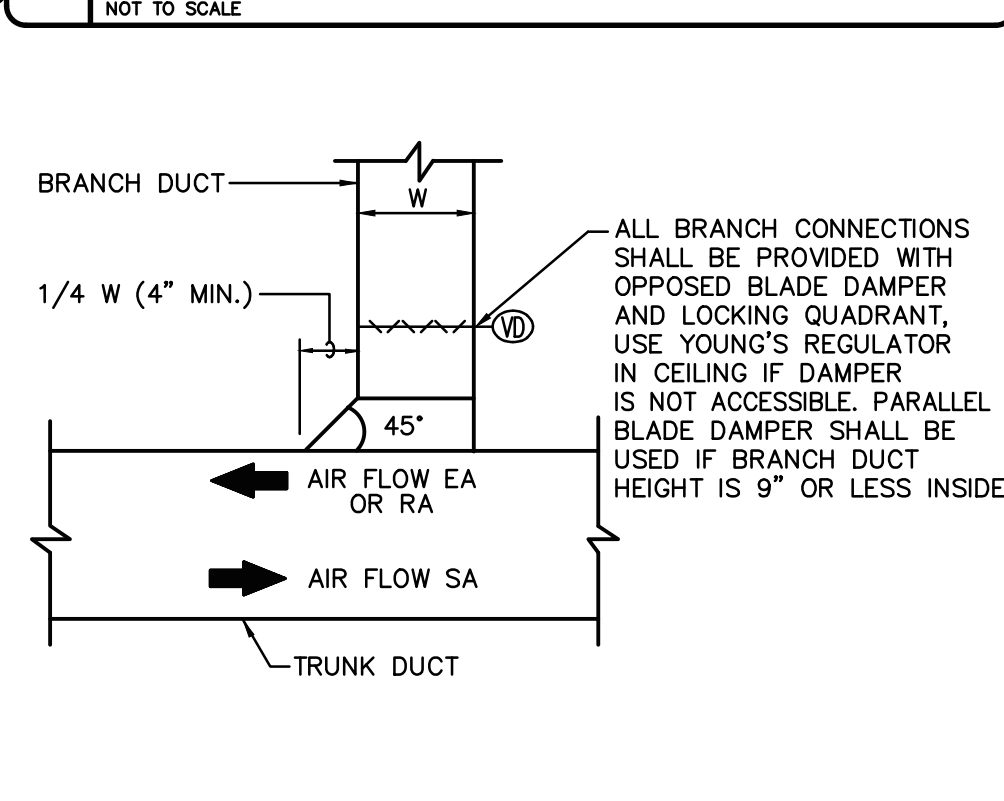
NOTE: ALL CONDENSATE DRAIN PIPING SHALL BE SCHEDULE 40 GALVANIZED WITH MALLEABLE IRON SCREWED FITTINGS.

5 FAN COIL UNIT MOUNTING (DX)
NOT TO SCALE



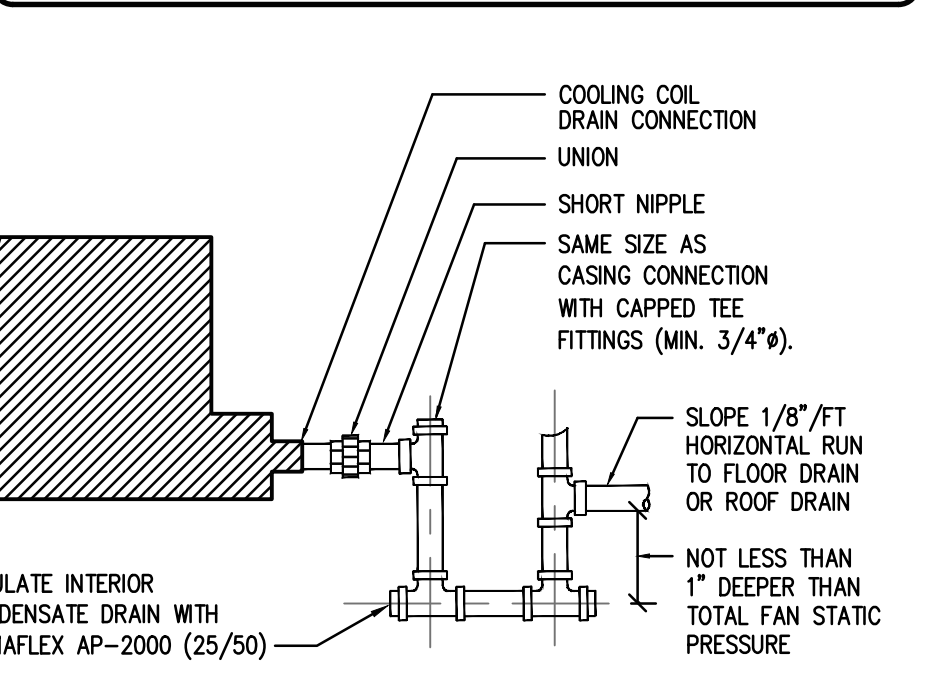
NOTE: TYPICAL FOR UNINSULATED PIPE.

6 PIPE ENTRY THRU EXTERIOR WALL
NOT TO SCALE



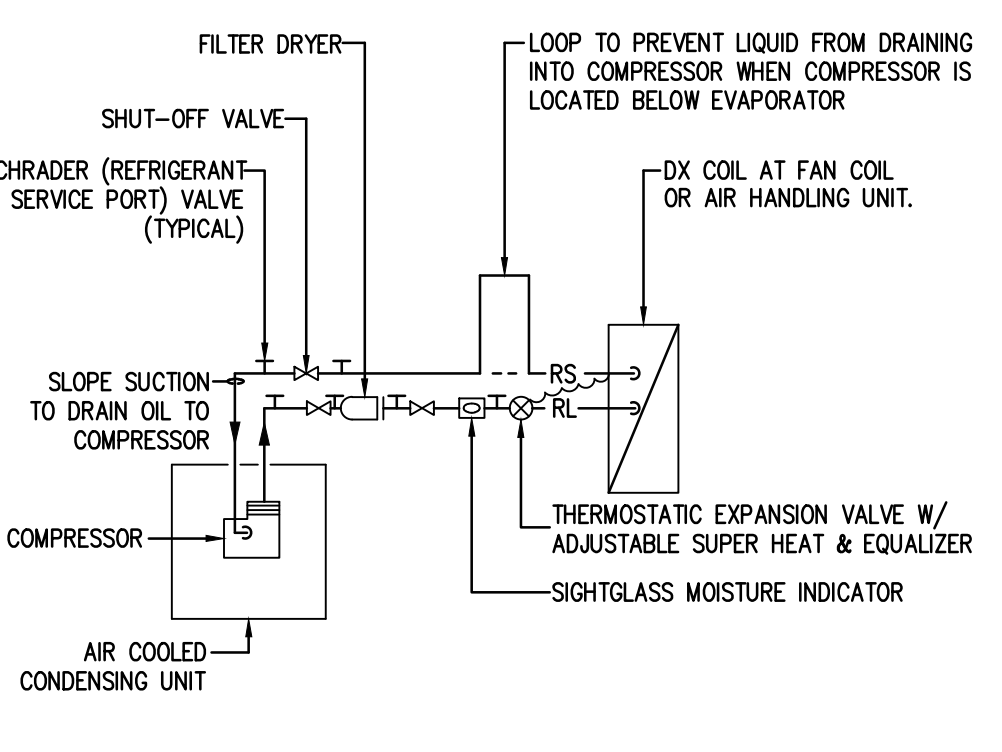
NOTE: THIS CONNECTION SHALL BE TYPICAL FOR ALL RECTANGULAR BRANCH DUCT CONNECTIONS TO RECTANGULAR TRUNK DUCTS, INCLUDING SUPPLY, RETURN, OUTSIDE AIR AND EXHAUST DUCTS.

7 RECTANGULAR BRANCH DUCT TAP
NOT TO SCALE



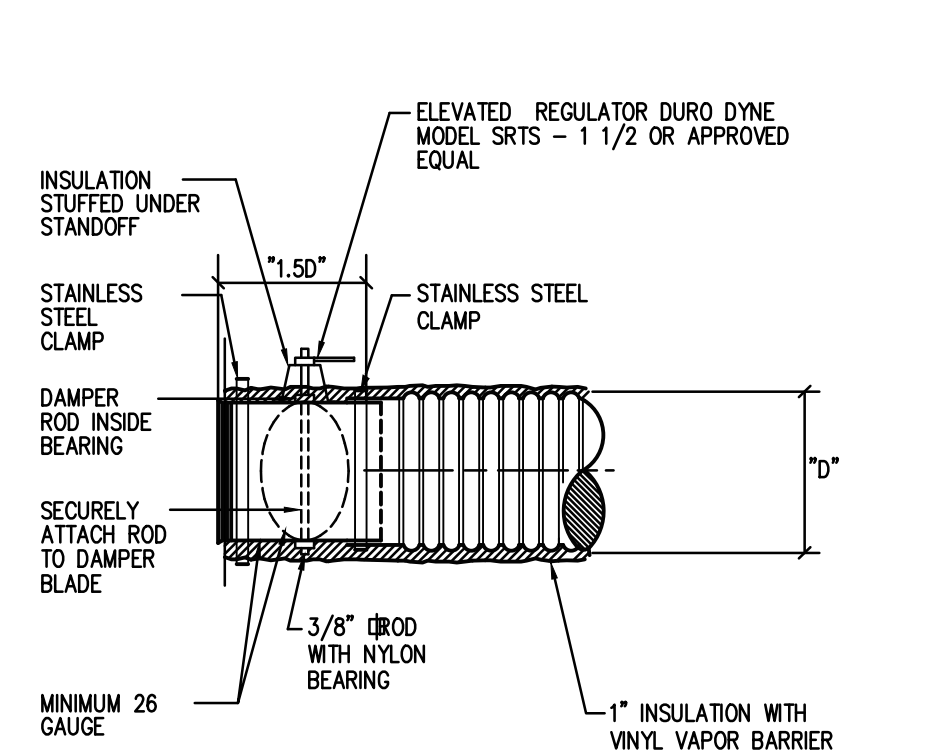
NOTE:
1. MAINTAIN MINIMUM 1" AIR GAP AT FLOOR DRAIN OR ROOF DRAIN.
2. ALL CONDENSATE DRAIN PIPING SHALL BE SCHEDULE 40 GALVANIZED WITH MALLEABLE IRON SCREWED FITTINGS.

8 COOLING COIL CONDENSATE DRAIN
NOT TO SCALE



NOTE:
1. COMPLY WITH MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS.
2. TYPICAL FOR EACH SEPARATE REFRIGERANT CIRCUIT.
3. USE "ACR" HARD DRAWN COPPER REFRIGERANT PIPE.

9 REFRIGERANT PIPING SCHEMATIC
NOT TO SCALE (5 TONS AND SMALLER)



NOTE:
1. ALL FLEXIBLE DUCT OFFSETS AND BENDS SHALL MAINTAIN A RADIUS OF 1.5 X (D)
MINIMUM 3'-0" AND MAXIMUM 6'-0"
2. TYPICAL OF ROUND DUCT CONNECTIONS TO RECTANGULAR DUCTS

10 SPIN-IN DETAIL
NOT TO SCALE

QUAD CITY FIRE STATION &
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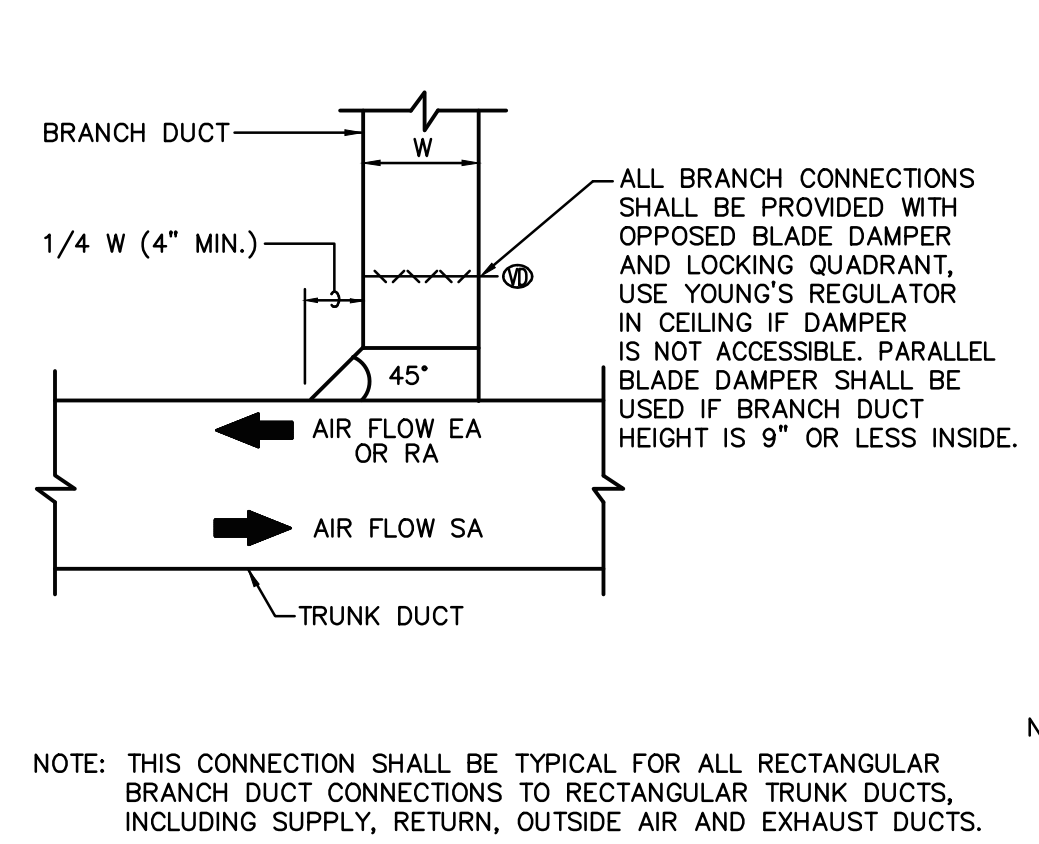
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**MECHANICAL
DETAILS
FIRE STATION**

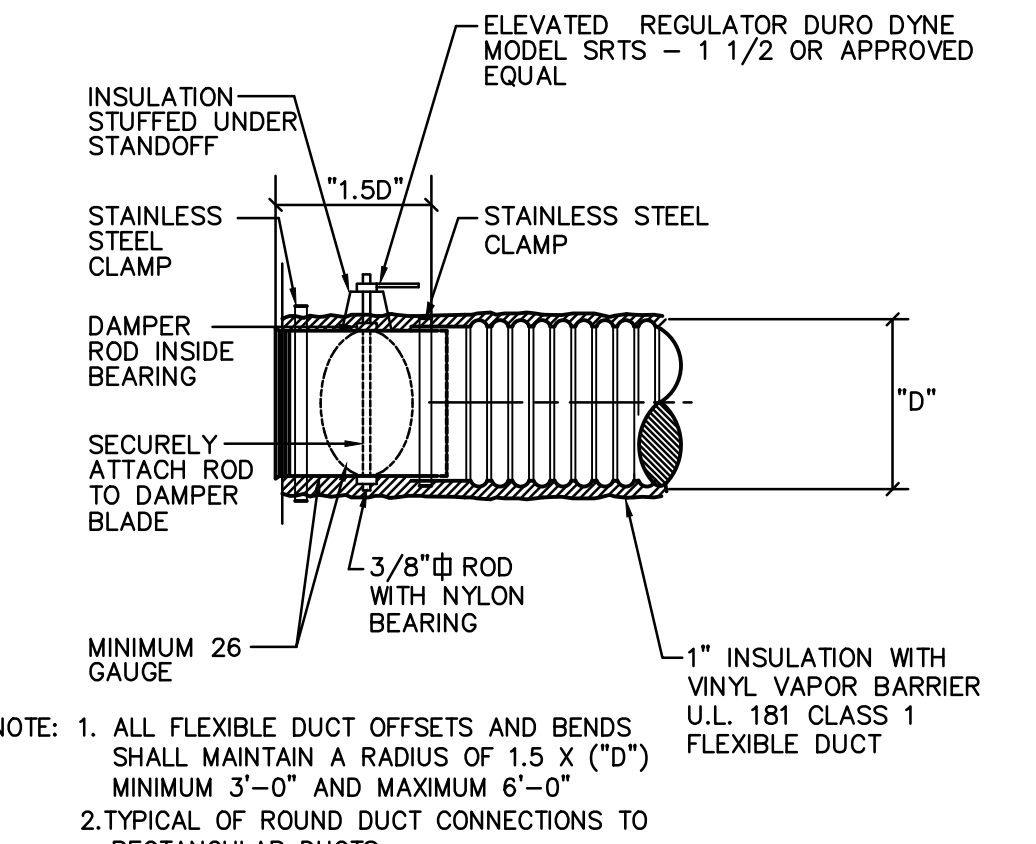
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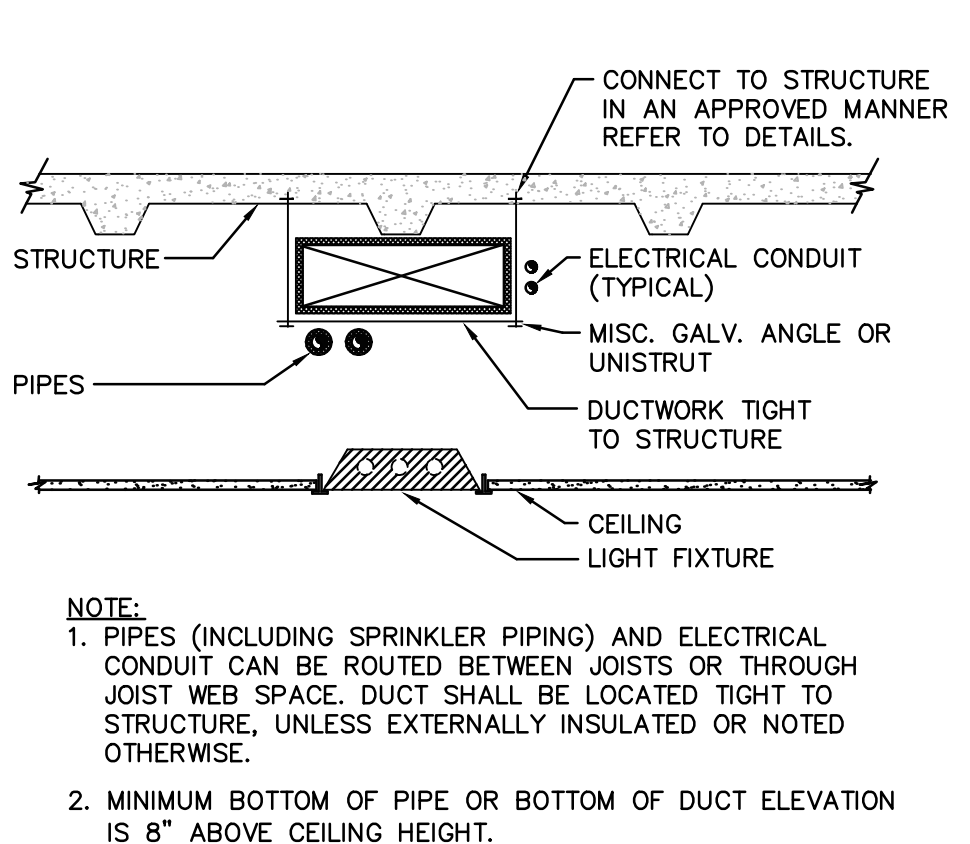
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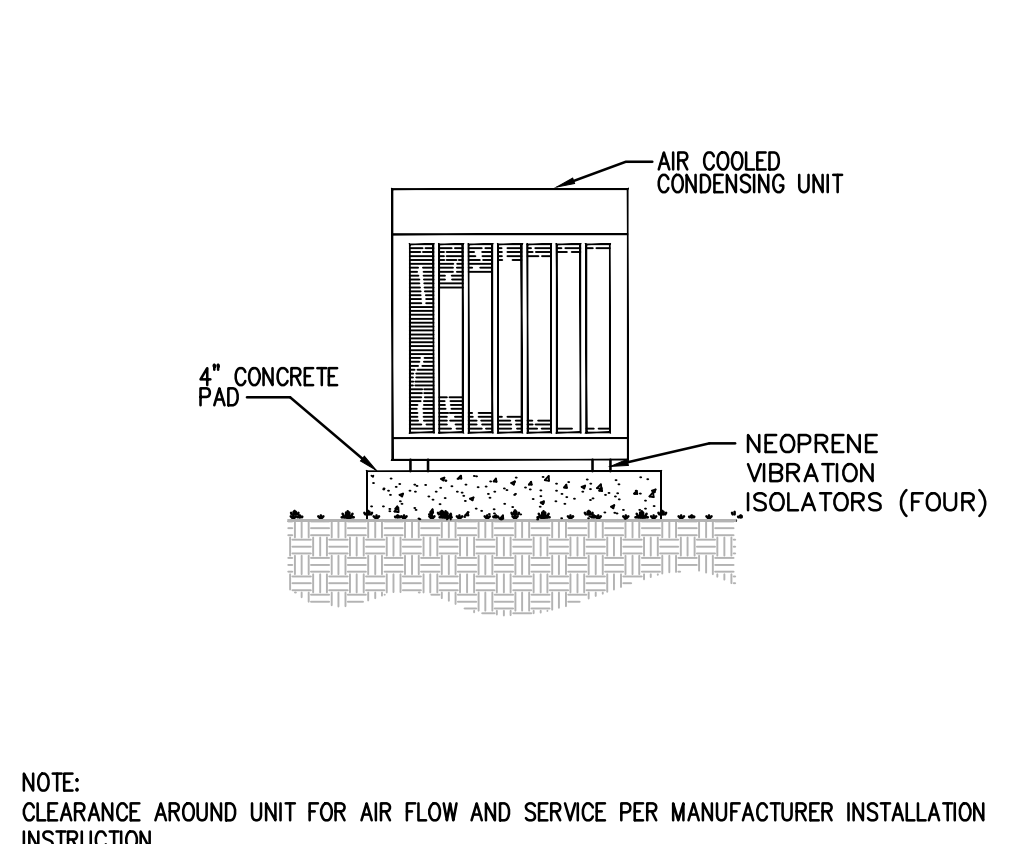
1 RECTANGULAR BRANCH DUCT TAP
NOT TO SCALE



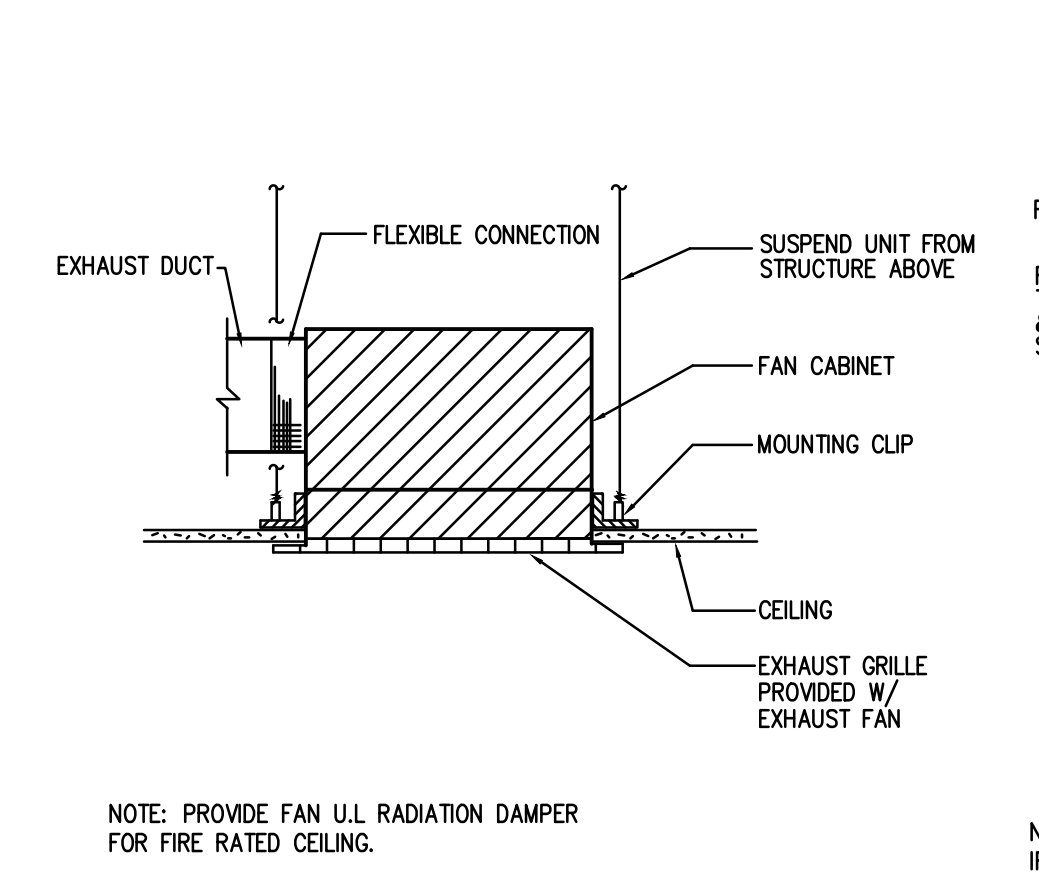
2 SPIN-IN DETAIL
NOT TO SCALE



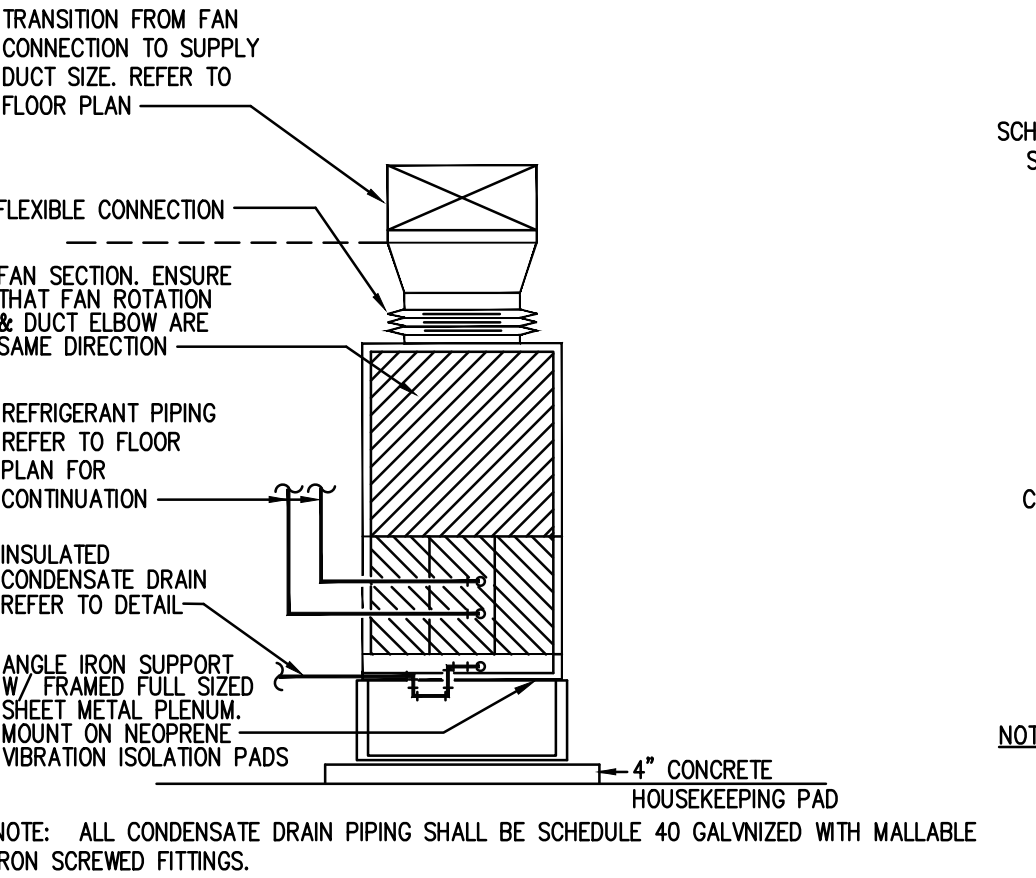
3 TYP. MEP INSTALLATION DETAIL
NOT TO SCALE



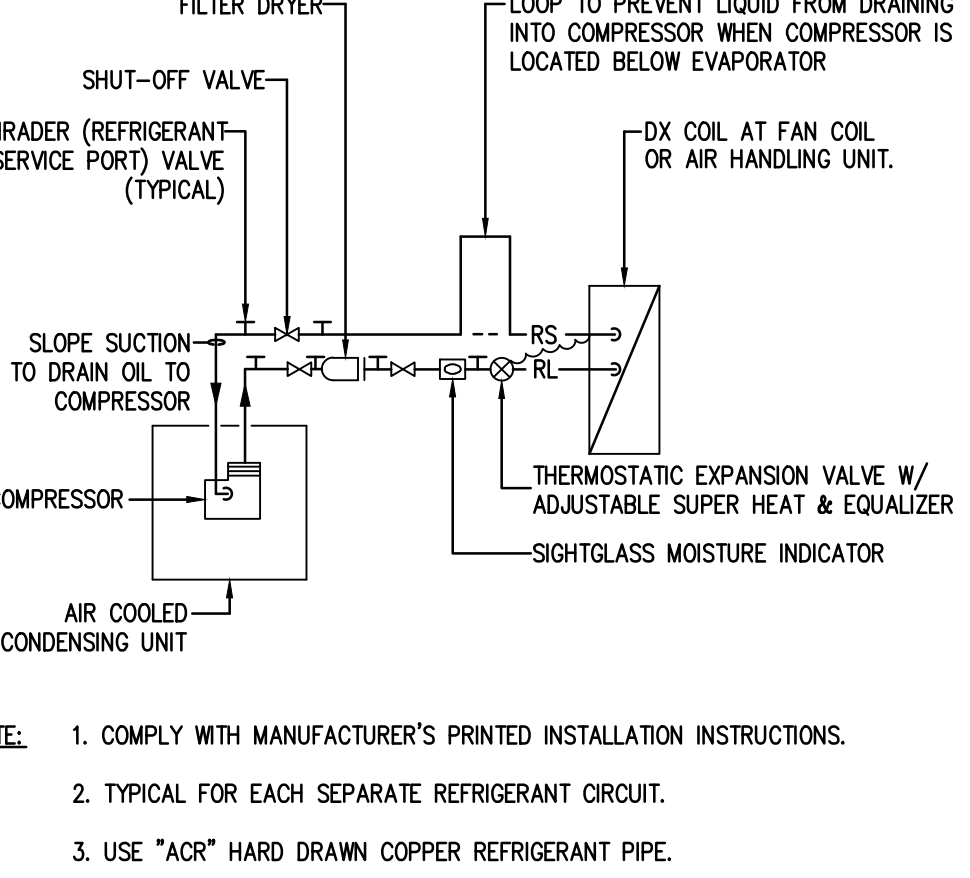
4 CONDENSING UNIT MOUNTING ON GRADE
NOT TO SCALE



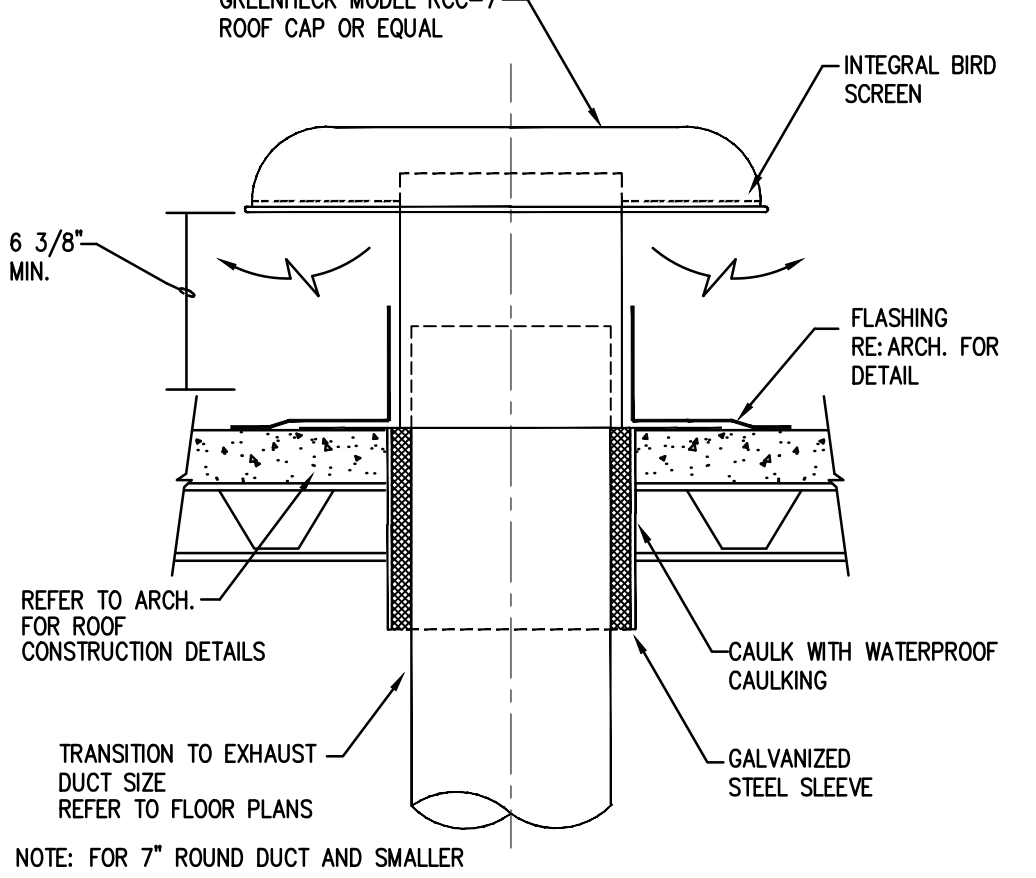
5 CEILING MOUNTED EXHAUST FAN
NOT TO SCALE



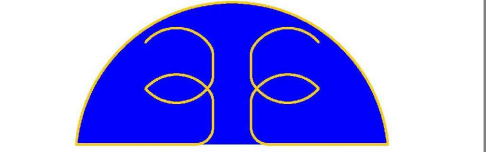
6 VERTICAL DX FAN COIL UNIT
NOT TO SCALE



7 REFRIGERANT PIPING SCHEMATIC
NOT TO SCALE (5 TONS AND SMALLER)



8 CEILING EXHAUST ROOF CAP
NOT TO SCALE



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QUAD CITY FIRE STATION & JUSTICE OF PEACE EXPANSION

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MECHANICAL DETAILS JUSTICE OF THE PEACE

Project number EED-19051 EED-22110
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Checked by EED

M301
Scale N.T.S.

GENERAL NOTES

PLAN DRAWINGS AND SPECIFICATIONS ARE A REPRESENTATION OF THE INSTALLATION, ANY EQUIPMENT OR MATERIAL DETAILS NOT SPECIFIED IN THIS DRAWING THAT ARE REQUIRED TO MEET LOCAL, STATE AND NATIONAL CODES, ARE THE RESPONSIBILITY OF THE CONTRACTOR.

CONTRACTOR TO COORDINATE WITH ALL APPLICABLE UTILITY COMPANIES FOR SERVICE INSTALLATION, REQUIREMENTS, DESIGN AND EASEMENTS.

CONTRACTOR TO REFER TO EQUIPMENT MANUFACTURER SPECIFICATIONS FOR EXACT DIMENSIONS AND FOR PROVIDING AND INSTALLATION OF ALL DEVICES, RACEWAYS, WALL BOXES AND WIRING NOT SHOWN ON THIS DRAWINGS. VERIFY ALL REQUIREMENTS BEFORE ANY ROUGH-IN.

CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXCAVATION, TRENCHING AND BACKFILLING AS NEEDED. COORDINATE WITH UTILITIES PRIOR TO EXCAVATION BY CALLING 811.

CONTRACTOR TO VERIFY ALL EXISTING MAIN POWER, CABLE AND TELEPHONE SERVICES. COORDINATE WITH POWER, CABLE AND TELEPHONE CO. FOR ALL REQUIREMENTS PRIOR TO ANY ROUGH-IN FOR A COMPLETE AND OPERABLE SYSTEMS.

AT THE BEGINNING OF THE PROJECT, REQUEST POWER SERVICE SERVICE TO UTILITY COMPANY, COORDINATE COST AND INSTALLATION OF SERVICE WIRE WITH UTILITY COMPANY.

CONTRACTOR TO COORDINATE WITH OWNER, ENGINEER AND POWER CO. FOR EXACT LOCATION OF NEW SERVICE, PRIOR TO INSTALLATION.

ALL WORK SHALL CONFORM TO NATIONAL ELECTRICAL CODES AND ALL OTHER AUTHORITY HAVING JURISDICTION. OBTAIN PERMITS AND PAY ALL FEES. PERFORM MODIFICATIONS TO MEET CODE AND ORDINANCE REQUIREMENT AT NO ADDITIONAL COST TO OWNER, ARCHITECT OR ENGINEER.

VERIFY AT JOB SITE THE EXACT LOCATIONS OF STRUCTURAL MEMBERS SUCH AS BEAMS, COLUMNS, FENCES, ETC. TO LOCATE EQUIPMENT CONDUIT, PANEL AND DEVICES. IF DEVIATIONS FROM THE DRAWING ARE NECESSARY TO MEET STRUCTURAL CONDITIONS, MAKE DEVIATIONS WITHOUT ADDITIONAL COST TO OWNER, ARCHITECT, OR ENGINEER.

THE OWNER SHALL BE GUARANTEED BY THE CONTRACTOR IN WRITING THAT ANY DEFECTS ARISING IN THE WORK WITHIN ONE YEAR (OR AS AGREED BETWEEN OWNER AND CONTRACTOR) OF THE DATE OF ACCEPTANCE SHALL BE CORRECTED FREE OF CHARGE.

ALL SLEEVES, PENETRATIONS, ETC. SHALL BE SEALED SOLID NON-SHRINKING MATERIAL IMMEDIATELY UPON FILLING OF THE OPENING WITH PIPE OR CONDUIT.

GROUND ENTIRE ELECTRICAL SYSTEM IN STRICT ACCORDANCE

WITH THE NATIONAL ELECTRICAL CODE.

OUTDOORS: UNDERGROUND CONDUIT SHALL BE PVC CONDUIT SCHEDULE 40 SUN RATED, ABOVE GROUND CONDUITS SHALL BE GALVANIZED RIGID METAL. SERVICE CONDUIT AS REQUIRED BY UTILITY POWER COMPANY.

COORDINATE ALL WORK AND ELECTRICAL EQUIPMENT LOCATIONS WITH CIVIL, ARCHITECTURAL, STRUCTURAL, ELECTRICAL AND MECHANICAL TRADES.

CONTRACTOR SHALL NOTIFY ARCHITECT/ENGINEER OF ANY PROBLEM ARISING FROM INTERPRETATION ON THESE DOCUMENTS IMMEDIATELY AS IT IS DISCOVERED IN A REQUEST FOR INFORMATION (RFI) FORMAL DOCUMENTATION.

CONTRACTOR SHALL PAY ALL FEES ASSOCIATED WITH CONNECTION TO UTILITY MAINS (OR AS AGREED IN CONTRACT WITH OWNER).

ARRANGE FOR SOURCES OF TEMPORARY CONSTRUCTION SERVICES AT NO COST TO OWNER. SUCH SERVICES SHALL BE NOMINALLY 120 / 240V, 1-PHASE, 3 WIRE FROM WHICH A COMPLETE SYSTEM OF TEMPORARY POWER AND LIGHTING SHALL BE PROVIDED FOR ALL CONSTRUCTIONS NEEDS.

CLEAN ALL THE CONSTRUCTION AREA TO BE FREE FROM DEBRIS, AND TO OWNER SATISFACTION.

REFER TO TYPICAL DETAILS FOR PROPOSED INSTALLATION DETAILS AND POSSIBLE ADDITIONAL MATERIAL AND EQUIPMENT. ANY DEVIATIONS SHALL BE DOCUMENTED IN AN RFI.

IN THE EVENT THAT CONTRACTOR DAMAGES ANY OF THE FACILITIES, EQUIPMENT, CONDUITS, WIRING, ETC, THE CONTRACTOR SHALL REPAIR SUCH ACCORDING TO APPLICABLE CODES WITHOUT ADDITIONAL COST TO OWNER.

AFTER WORK COMPLETION, CLEAN WORKING AREA, EQUIPMENT, ETC... TO OWNER'S AND ENGINEER'S SATISFACTION.

COORDINATE WITH GENERAL CONTRACTOR FOR ANY EXISTING ELEVATIONS GROUND CUTTING. CONTRACTOR TO RELOCATE CONDUITS AND/OR DUCT BANKS AS NEEDED TO MEET DEPTH AND CLEARANCE REQUIREMENTS BY NEC AND NESC.

GENERAL ELECTRICAL NOTES

- 480V AND BELOW, UNDERGROUND CONDUIT TO BE SCHEDULE 40, SUN RATED, AND EXTERIOR. BURIED MINIMUM 24" TO THE TOP OF THE CONDUIT. TRANSITIONS ABOVE GROUND SHALL BE GRM EXTERIOR INSULATED WITH 3M TAPE AT 50% OVERLAP.
- UNDERGROUND CONDUIT IN PARKING TRAFFIC AREAS TO BE ENCASED IN MIXED RED DIE CONCRETE AT 3000PSI.
- MINIMUM CLEARANCE BETWEEN CURRENT CARRYING CONDUCTOR CONDUITS AND WATER, SEWER, OR COMMUNICATIONS SHALL BE 12 INCHES, OR AS REQUIRED BY LOCAL AHJ.
- VERIFY ALL POWER UTILITY COMPANY REQUIREMENTS PRIOR TO ANY INSTALLATIONS.
- ALL ELECTRICAL EQUIPMENT SHALL BE UL LISTED
- ALL ELECTRICAL EQUIPMENT EXPOSED TO WEATHER SHALL BE WEATHER PROOF.
- ALL GROUNDING SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) ARTICLE 250.
- ALL ELECTRICAL CONDUCTORS SHALL BE COPPER RATED AT TEMPERATURE PER CODE DEPENDING ON GAUGE WIRE SIZE.
- FLEXIBLE CONDUITS TO BE LIQUID TIGHT FOR EXTERIOR .
- ALL CONDUIT FITTINGS TO MATCH PROPOSED CONDUIT AND TO BE RATED FOR EITHER OUTDOORS WET ENVIRONMENT OR INTERIOR.
- ADD DISCONNECT MEANS IN THE EVENT THAT THE ACTUAL EQUIPMENT DOES NOT PROVIDE DISCONNECT MEANS LOCALLY.
- VERIFY PHASE ROTATION ON ALL EQUIPMENT.
- ON WIRES 3/0 AND LARGER, TEST WIRE INSULATION ONCE INSTALLED, BEFORE TERMINATION.

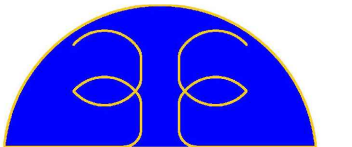
GENERAL ELECTRICAL LEGEND SYMBOLS FOR ADMINISTRATION BUILDING			
20A-120V DUPLEX RECEPTACLE (RECEPTACLES NEXT TO TV COORDINATE HEIGHT)	⊕	DISCONNECT PANEL	☐
20A-120V QUADRUPLE RECEPTACLE	⊕	PHOTOCELL	(PC)
20A-120V RECEPTACLE W/ GROUND FAULT CIRCUIT INTERRUPTER	⊕GFCI	JUNCTION BOX	(J)
20A-120V RECEPTACLE W/ GROUND FAULT CIRCUIT INTERRUPTER WEATHER PROOF, WET AND CORROSIVE ENVIRONMENT AS NOTED.	⊕WP GFCI	LIGHTING CONTACTOR	(LC)
20A-120V ISOLATED GROUND RECEPTACLE	⊕	TIMER & DIMMER	(T&D)
20A-120V ISOLATED GROUND QUADRUPLE RECEPTACLE	⊕	TIMER	(T)
20A-120V DEDICATED DUPLEX RECEPTACLE	⊕D	SPEAKER: RUN CABLE FROM IT TO SPEAKER LOCATION	(S)
20A-120V DEDICATED QUADRUPLE RECEPTACLE	⊕D	MICROPHONE: RUN CABLE FROM IT TO MICROPHONE LOCATION	(M)
30A-120V DUPLEX RECEPTACLE FOR UPS(L6-30)	⊕30A	WIRELESS ACCESS POINT: RUN CABLE FROM IT TO LOCATION	(WAP)
		ANTENNA: RUN CABLE FROM IT TO LOCATION	(ANT)
SWITCH	\$	CONDUIT EXPOSED	—
THREE WAY SWITCH	\$3	CONDUIT UNDERGROUND	—
FOUR WAY SWITCH	\$4	FIRE ALARM AUDIBLE/VISUAL SIGNAL	(E)☑
DIMMER SWITCH AND OCCUPANCY SENSOR	\$DO	FIRE ALARM AUDIBLE SIGNAL	(F)☑
OCCUPANCY SENSOR	\$O	FIRE ALARM VISUAL SIGNAL	(E)☑
THREE CURRENT CARRYING CONDUCTORS AND ONE GROUND CONDUCTOR		FIRE ALARM AUDIBLE/VISUAL SIGNAL 360	⊙
GARBAGE DISPOSAL RECEPTACLE	⊕GD	FIRE ALARM SMOKE DETECTOR CEILING OR WALL MOUNTED	(S)
DISH WASHER RECEPTACLE	⊕DW	HEAT DETECTOR CEILING	(H)
VOICE TELEPHONE OUTLET *	⊕n	FIRE ALARM CONTROL PANEL	(FACP)
DATA OUTLET CAT 6 TO 8 *	⊕n	FIRE ALARM ANNUCIATOR PANEL	(FAAP)
TELEPHONE & DATA OUTLET CAT 6 TO 8 *	⊕n	FIRE ALARM PULL STATION	(P)
TELEVISION OUTLET *	⊕TV		
USB CHARGER DEVISE	⊕		
FLOOR RECEPTACLE TELEPHONE & DATA COMBINATION	⊕A		
FLOOR BOX IN THE DAIS	(A)		
FLOOR BOX IN THE LITIGATION AREA	(B)		
SYSTEMS FURNITURE WHIP - CIRCUITS BASEFEED	(WHIP)		

* COMMERCIAL: 4-INCH SQUARE J-BOX SINGLE GANG MUDRING ADAPTER AND WITH 1-INCH CONDUIT AND 200 LB. NYLON PULL CORDS n: IS THE NUMBER OF OUTLETS, NO NUMBER FOR 1 OUTLET.

* RESIDENTIAL: COMPLETELY TERMINATED READY FOR USER.



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QUAD CITY FIRE STATION & JUSTICE OF PEACE EXPANSION
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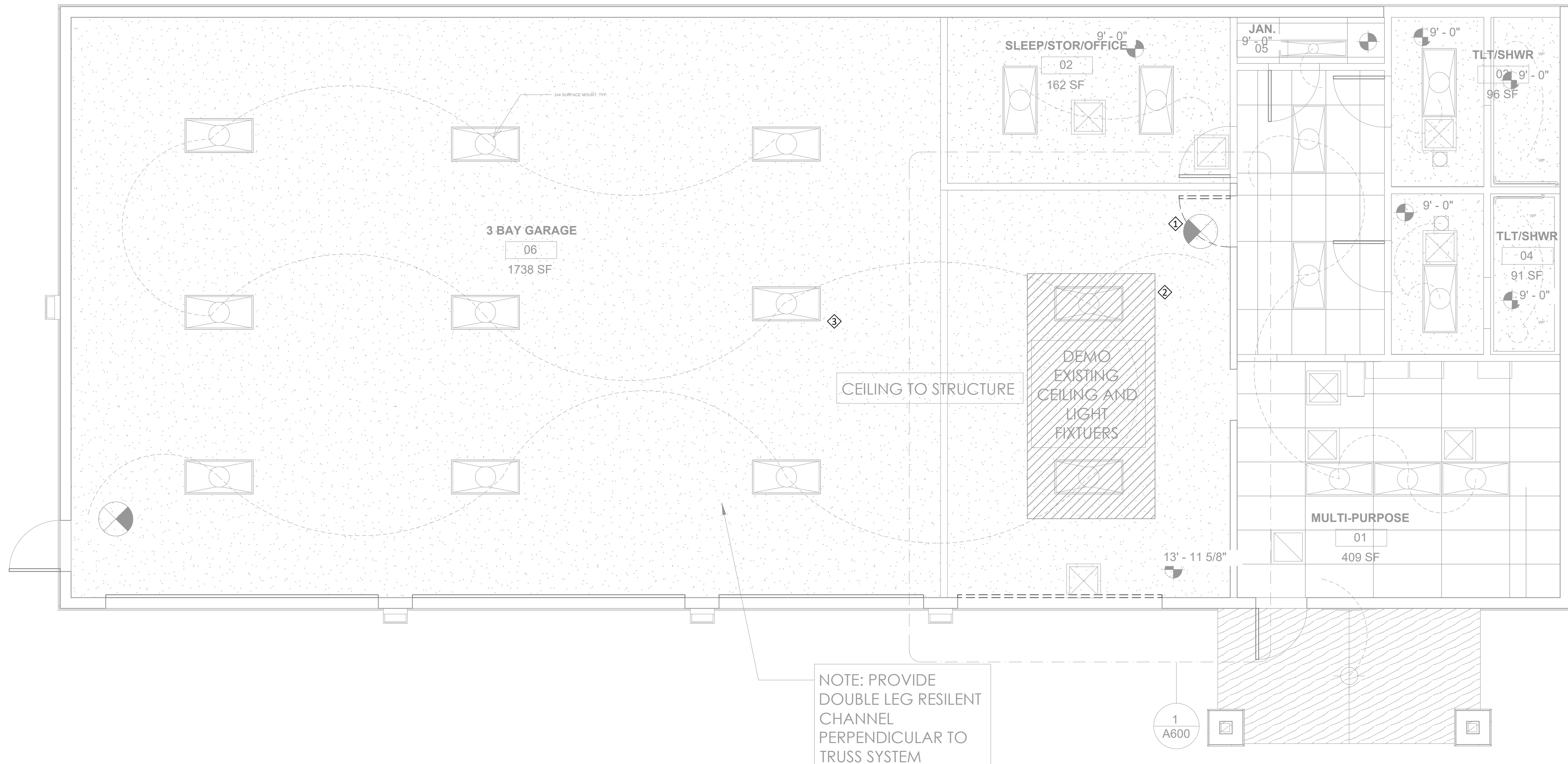
GENERAL NOTES

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NOTE: PROVIDE DOUBLE LEG RESILENT CHANNEL PERPENDICULAR TO TRUSS SYSTEM

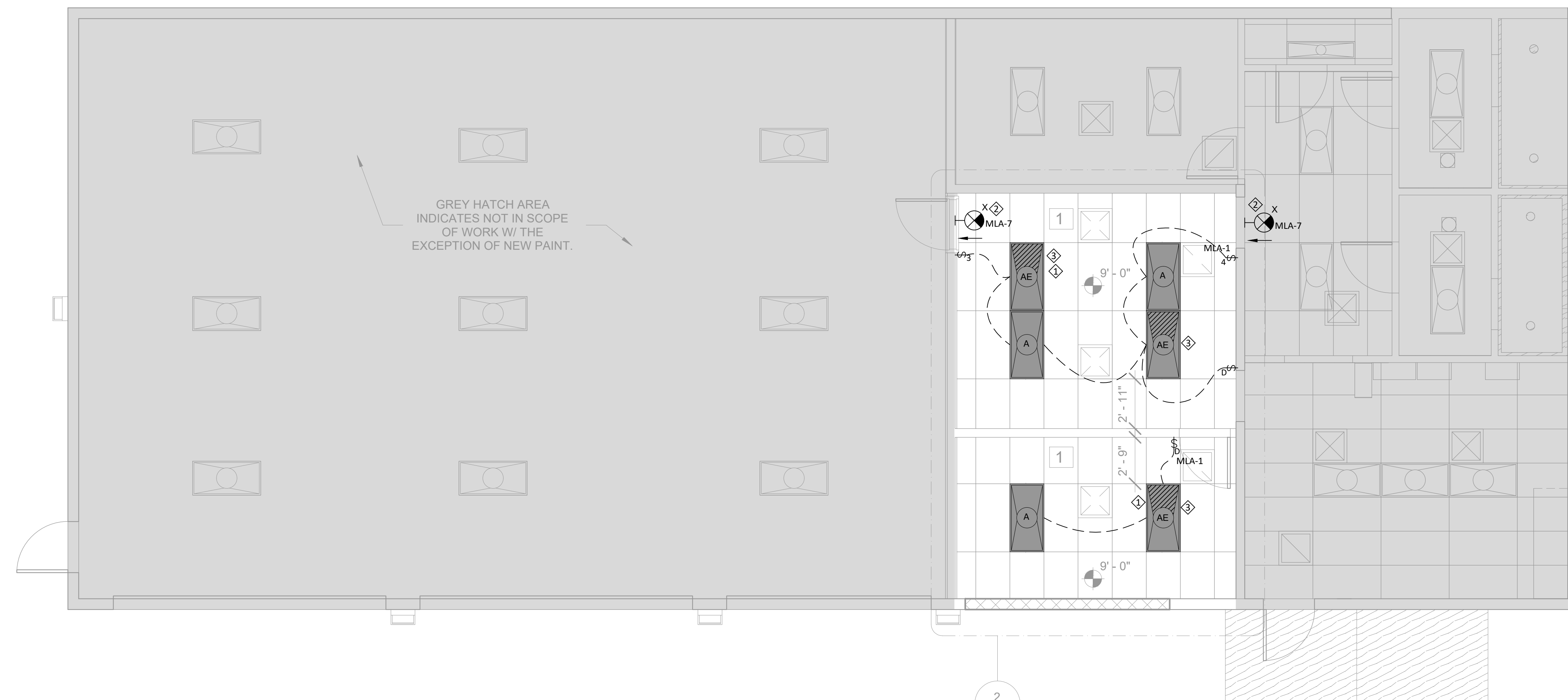
GENERAL NOTES

- A. FURNISH FIXTURES WITH TRIM COMPATIBLE WITH THE TYPE OF CEILING AS INDICATED.
- B. CONNECT EXIT/EMERGENCY LIGHTS AND EMERGENCY BALLASTS IN EMERGENCY LIGHTS IN EACH SPACE TO UN-SWITCHED HOT LEGS OF THE LOCAL LIGHTING CIRCUIT.
- C. COORDINATE PLACEMENT OF LIGHT FIXTURE WITH ACTUAL INSTALLATION OF MECHANICAL EQUIPMENT AND DUCTWORK.
- D. COORDINATE INSTALLATION OF CONDUIT WITH OTHER TRADES PRIOR TO ROUGH-IN.
- E. PROVIDE LUMINAIRES, AND ACCESSORIES FOR ALL LIGHTING SYSTEMS, COMPLETE AND OPERABLE, IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.
- F. OCCUPANCY/VACANCY SENSOR AND/OR SWITCHES TO BE AS INDICATED IN SWITCH TYPE SCHEDULE OR APPROVED EQUAL.
- G. DIMMER/OCCUPANCY/VACANCY SENSORS TO BE AS INDICATED IN SWITCH TYPE SCHEDULE OR APPROVED EQUAL. POWER SUPPLY SWITCH TYPE SCHEDULE OR APPROVED EQUAL. POWER SUPPLY MODULES TO BE INSTALLED ABOVE CEILING. AIM OCCUPANCY SENSORS ACCORDING TO ACTUAL INSTALLATION CONDITIONS. COORDINATE WITH SUPPLIER INSTALLATION MANUAL FOR PROGRAMMING AND ANY REQUIRED ADDITIONAL EQUIPMENT, APPLICATIONS, INSTRUMENTATION, ETC...

KEYED DEMOLITION NOTES

- 1. RELOCATE EXIT LIGHT AS INDICATED.
- 2. LIGHTS TO BE DEMOLISHED, WIRE TO BE REMOVED FROM AREA.
- 3. GARAGE LIGHTS TO BE PROPERLY RECONNECTED AS NEEDED TO CONTINUE FUNCTIONING AS INTENDED.

1 LIGHTING DEMOLITION PLAN - FIRE STATION
1/4" = 1'-0"



KEYED NOTES

- 1. CEILING LIGHTS TO BE MOUNTED AT CEILING ELEVATION AS INDICATED IN ARCHITECT DRAWING.
- 2. EXIT AND EMERGENCY LIGHTS TO BE MOUNTED AT 8 FT, OR CEILING MOUNTED (FOR EXIT LIGHTS). THE MEANS OF EGRESS, INCLUDING THE EXIT DISCHARGE, SHALL BE ILLUMINATED AT ALL TIMES THE BUILDING SPACE IS OCCUPIED. EXIT, EMERGENCY AND EGRESS LIGHT FIXTURE BATTERY PACK TO BE CONNECTED IN AN UN-SWITCHED CIRCUIT.
- 3. LIGHTING FIXTURES WITH HATCH AND SUFFIX "E" ARE INTENDED TO HAVE BATTERY BACK UP FOR EMERGENCY PURPOSES.

2 LIGHTING NEW PLAN - FIRE STATION
1/4" = 1'-0"

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LIGHTING DEMOLITION & NEW PLAN - FIRE STATION

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Checked by EED

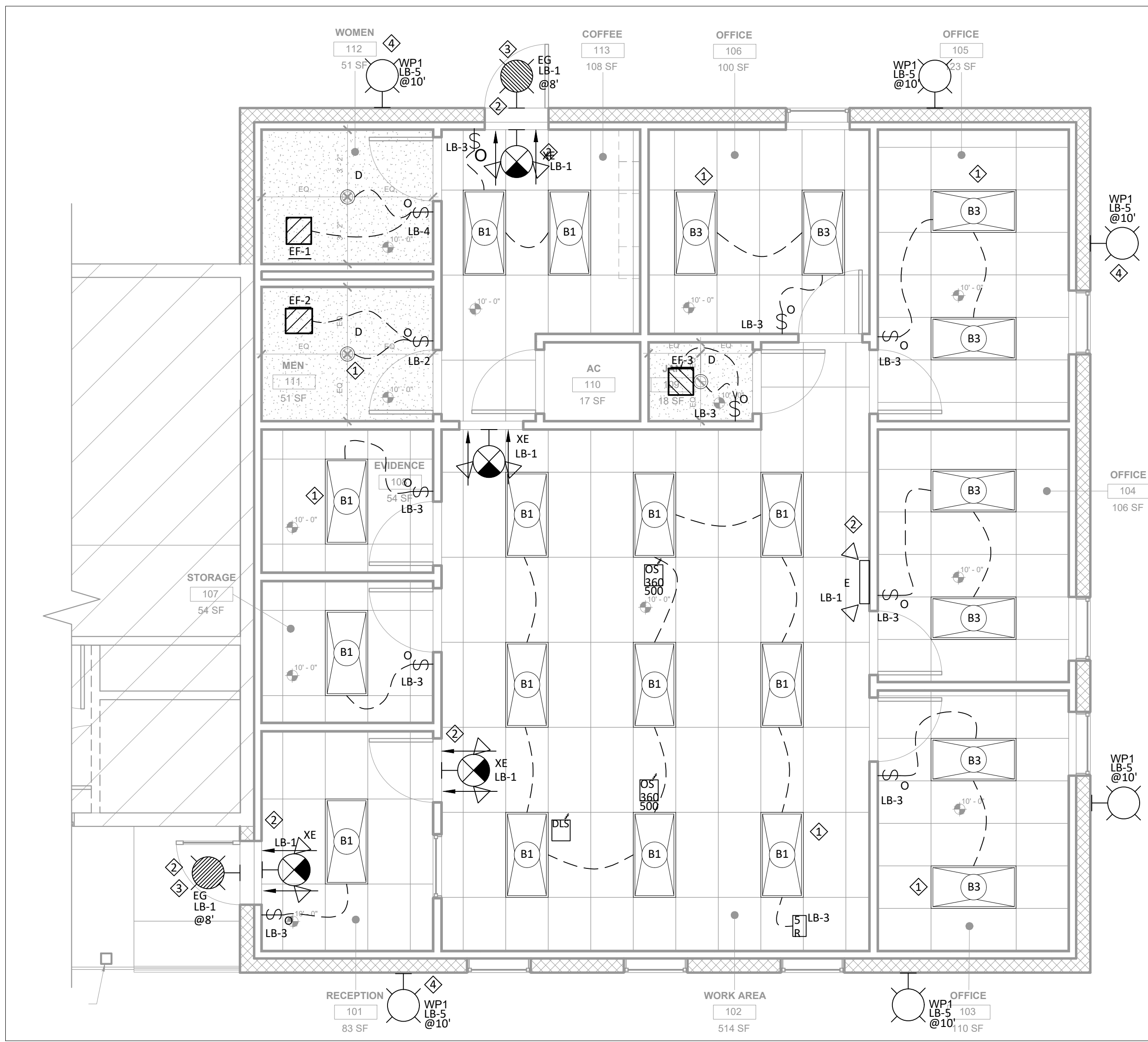
E101
Scale 1/4" = 1'

GENERAL NOTES

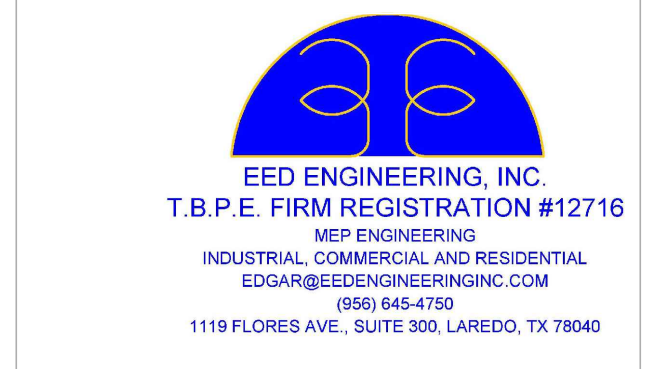
- A. FURNISH FIXTURES WITH TRIM COMPATIBLE WITH THE TYPE OF CEILING AS INDICATED.
- B. CONNECT EXIT/EMERGENCY LIGHTS AND EMERGENCY BALLASTS IN EMERGENCY LIGHTS IN EACH SPACE TO UN-SWITCHED HOT LEGS OF THE LOCAL LIGHTING CIRCUIT.
- C. COORDINATE PLACEMENT OF LIGHT FIXTURE WITH ACTUAL INSTALLATION OF MECHANICAL EQUIPMENT AND DUCTWORK.
- D. COORDINATE INSTALLATION OF CONDUIT WITH OTHER TRADES PRIOR TO ROUGH-IN.
- E. PROVIDE LUMINAIRES, AND ACCESSORIES FOR ALL LIGHTING SYSTEMS, COMPLETE AND OPERABLE, IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.
- F. EXTERIOR LIGHTS, OTHER THAN EMERGENCY LIGHTS, BUILDING FACADE OR LANDSCAPE, TO BE DIMMED AT 30% BETWEEN MIDNIGHT AND 6:00AM. USE OF LIGHT FIXTURE INTEGRATED CONTROLS AND PHOTOCCELL, OR USE OF LIGHTING CONTRACTOR WITH PHOTOCCELL, DIMMER AND TIMER.
EXCEPTION: LIGHTING FOR COVERED VEHICLE ENTRANCES OR EXITS FROM BUILDINGS OR PARKING STRUCTURE WHERE REQUIRED FOR SAFETY, SECURITY OR EYE ADAPTATION.
- G. AIM AND VERIFY ALL OUTDOOR LUMINAIRES ALIGNMENT, DURING DARK EVENING HOURS.
- H. USE OF TIMER "ST" FOR SIGN. SIGNS JUNCTION BOX, ACTUAL LOCATION TO BE COORDINATED WITH ARCHITECT OR OWNER BEFORE ROUGH IN. CIRCUITS CONNECTED TO A TIMER TO TURN ON SIGNS, SET SCHEDULE PER OWNER'S REQUIREMENTS. COORDINATE WITH OWNER AND ARCHITECT FOR ACTUAL SIGN LOCATION.

KEYED NOTES

- 1. CEILING LIGHTS TO BE MOUNTED AT CEILING ELEVATION AS INDICATED IN ARCHITECT DRAWING.
- 2. EXIT AND EMERGENCY LIGHTS TO BE MOUNTED AT 8 FT, OR CEILING MOUNTED (FOR EXIT LIGHTS). THE MEANS OF EGRESS, INCLUDING THE EXIT DISCHARGE, SHALL BE ILLUMINATED AT ALL TIMES THE BUILDING SPACE IS OCCUPIED. EXIT, EMERGENCY AND EGRESS LIGHT FIXTURE BATTERY PACK TO BE CONNECTED IN AN UN-SWITCHED CIRCUIT.
- 3. LIGHTING FIXTURES WITH HATCH AND SUFFIX "E" ARE INTENDED TO HAVE BATTERY BACK UP FOR EMERGENCY PURPOSES. BATTERY CONNECTED TO CIRCUIT LA-1 TO BE UNSWITCHED.
- 4. EXTERIOR LIGHTS TO USE SENSORS AS STATED IN LIGHTING SCHEDULE AND TO COMPLY WITH GENERAL NOTE F. CONTRACTOR IS RESPONSIBLE TO HAVE A WORKING SYSTEM WITH ALL NEEDED ACCESSORIES.



1 LIGHTING PLAN - JUSTICE OF THE PEACE
1/4" = 1'-0"



**QUAD CITY FIRE STATION &
JUSTICE OF PEACE
EXPANSION**
23235 SH 359
ABST 2655 SUR 822 H E & W T 2.53 ACS
BRUNI, TEXAS 78344



NO.	DESCRIPTION	REV.	DATE
1	BID PERMIT SET		10/25/2022

**LIGHTING
PLAN - JUSTICE
OF THE PEACE**

Project number EED-19051 EED-22110
Date 10/25/2022
Drawn by FG
Checked by EED

E102

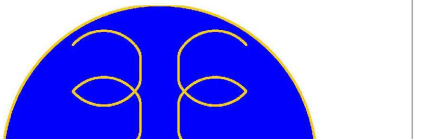
Scale 1/4" = 1'

GENERAL NOTES

- A. PROPOSED EQUIPMENT LOAD MIGHT NOT BE ACTUAL EQUIPMENT SELECTED. COORDINATE DIMENSIONS, ELEVATIONS, AND IN ANY CASE OF DISCREPANCIES ASK QUESTIONS TO ENGINEER, ARCHITECT, OR OWNER BEFORE ROUGH IN.
- B. BALANCE LOADS ON ALL THREE PHASES AS MUCH AS POSSIBLE.
- C. RELOCATE CIRCUIT LOADS IN PANEL LA TO BETTER ARRANGE CONDUITS FOR INSTALLATION.
- D. USE OF TAMPER RESISTANT RECEPTACLES IN PUBLIC AREAS AND DWELLING UNITS.

KEYED NOTES

- 1. PANEL MLA MOUNTING TO BE COORDINATED IN THE FIELD FOR EXACT LOCATION.
- 2. A/C DISCONNECTS ACTUAL LOCATION TO BE COORDINATED IN THE FIELD BEFORE ROUGH IN AND TERMINATION.
- 3. ATTIC LIGHT AND RECEPTACLE TO BE PROPERLY LOCATED IN ATTIC TO SERVE FOR MAINTENANCE PURPOSES.



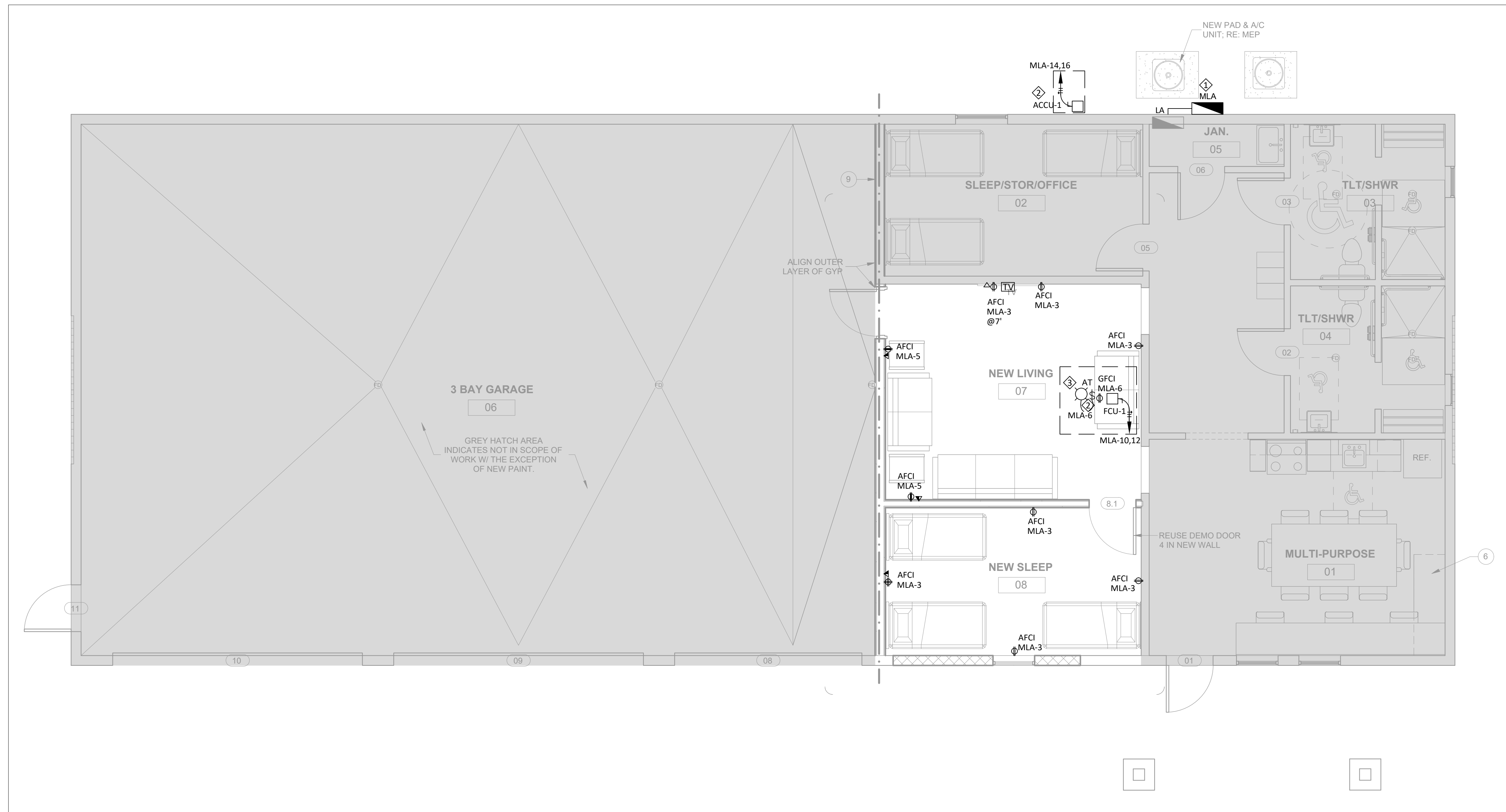
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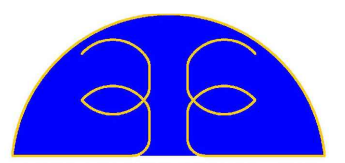
1 ELECTRICAL PLAN - FIRE STATION
1/4" = 1'-0"

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1	BID PERMIT SET		10/25/2022

**ELECTRICAL PLAN -
FIRE STATION**

Project number EED-19051 EED-22110
Date 10/25/2022
Drawn by FG
Checked by EED

E200
Scale 1/4" = 1'



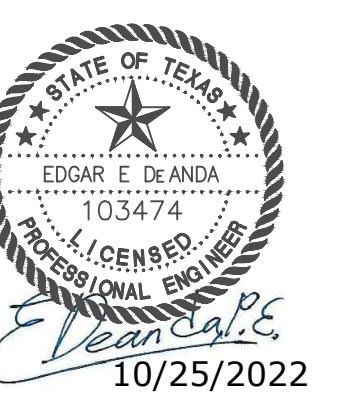
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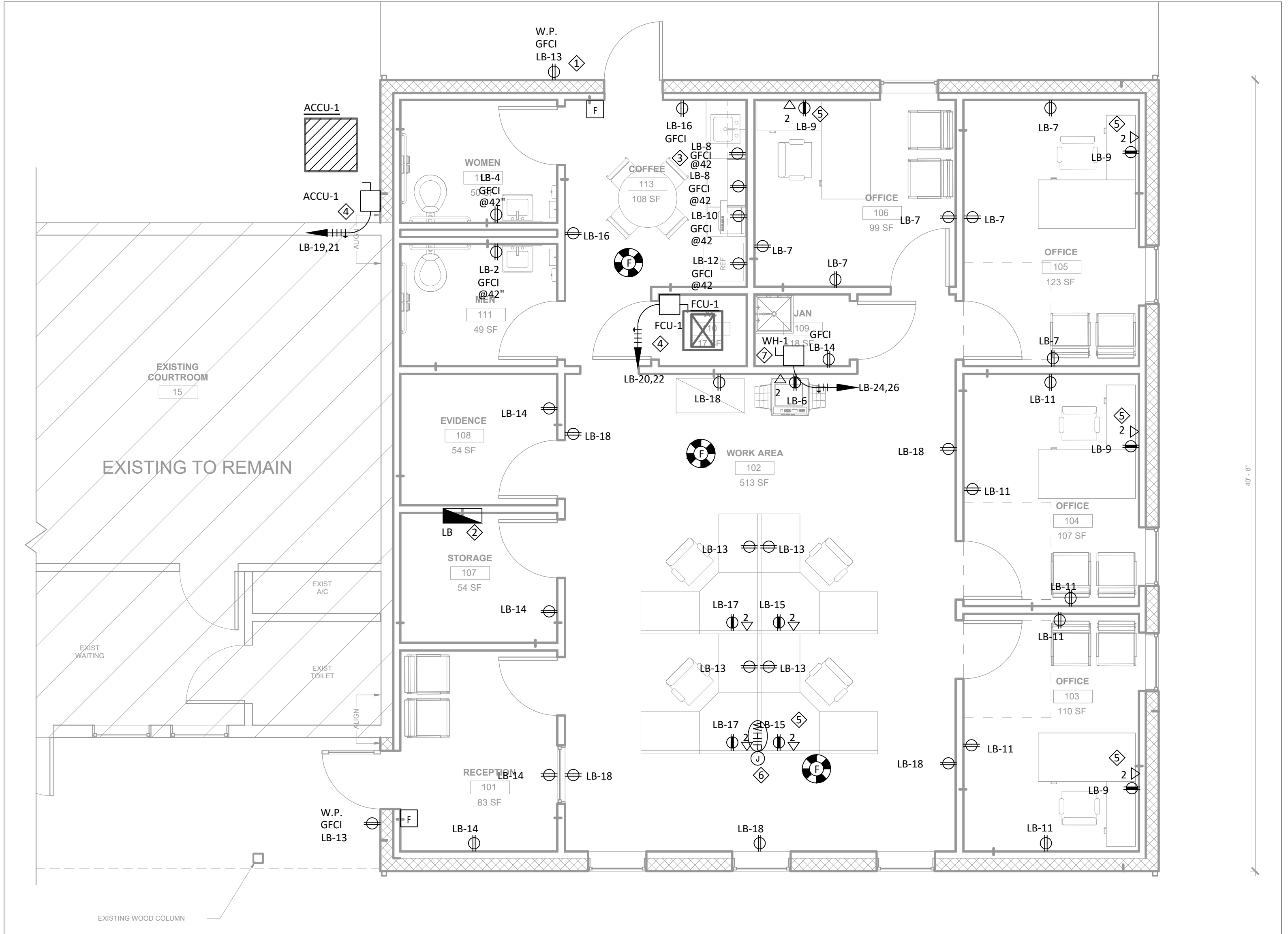
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GENERAL NOTES

- A. PROPOSED EQUIPMENT LOAD MIGHT NOT BE ACTUAL EQUIPMENT SELECTED. COORDINATE DIMENSIONS, ELEVATIONS, AND IN ANY CASE OF DISCREPANCIES ASK QUESTIONS TO ENGINEER, ARCHITECT, OR OWNER BEFORE ROUGH IN.
- B. BALANCE LOADS ON ALL THREE PHASES AS MUCH AS POSSIBLE.
- C. RELOCATE CIRCUIT LOADS IN PANEL TO BETTER ARRANGE CONDUITS FOR INSTALLATION.
- D. FIRE ALARM ANNUNCIATOR, CONTROL PANEL, PULL STATIONS AND AUDIBLE AND VISUAL SIGNALS TO BE DONE AND COORDINATED WITH A LICENSE FIRE ALARM SYSTEM INSTALLER. AND FOR THE INSTALLER TO PROVIDE SEALED DRAWINGS BEFORE ACTUAL INSTALLATION. PROPOSED DESIGN ON THESE DRAWINGS IS AN INDICATOR OF THE NEED FOR A FIRE ALARM SYSTEM.
- E. ALL DATA AND PHONE WIRES TO BE INSTALLED FROM IT RM TO THE DATA AND PHONE RECEPTACLES INDICATED IN PLANS. COORDINATE WITH OWNER, ARCHITECT AND ENGINEER FOR ANY QUESTIONS BEFORE ROUGHT IN AND TERMINATION.
- F. KITCHEN EQUIPMENT DISCONNECT MEANS OR CONNECTIONS TO BE COORDINATED WITH ACTUAL EQUIPMENT SELECTION. MAKE CHANGES AS NEEDED AND NOTIFY ENGINEER, ARCHITECT AND OWNER IF LOADS INCREASE.

KEYED NOTES

- 1. A/C UNIT RECEPTACLE FOR MAINTENANCE PURPOSE. COORDINATE ACTUAL LOCATION IN THE FIELD BEFORE ROUGH IN AND TERMINATION. TO BE LOCATED LESS THAN 25 FT FROM UNITS. FOR OUTDOORS, FURNISH AND INSTALL WEATHER PROOF WHILE-IN-USE HOODS EQUAL TO THOMAS AND BETTS RED-DOT CODE KEEP-OP.
- 2. ELECTRICAL PANELS PROPOSED LOCATION TO BE COORDINATED IN THE FIELD FOR EXACT LOCATION.
- 3. RECEPTACLES ABOVE COUNTER TOP OR NEAR SINKS TO BE INSTALLED PER DETAILS, OR TO BE MOUNTED 6 INCHES ABOVE COUNTER TOP OR SINKS. VERIFY WITH ACTUAL FURNITURE.
- 4. A/C DISCONNECTS ACTUAL LOCATION TO BE COORDINATED IN THE FIELD BEFORE ROUGH IN AND TERMINATION.
- 5. ALL DATA AND PHONE WIRES TO BE INSTALLED FROM SERVER (IT) RM TO THE DATA AND PHONE RECEPTACLES INDICATED IN PLANS. COORDINATE WITH OWNER, ARCHITECT AND ENGINEER FOR ANY QUESTIONS BEFORE ROUGH IN AND TERMINATION.
- 6. 1-3/4" CONDUITS TO RUN POWER WIRES AND 1-2" CONDUIT TO RUN VOICE AND DATA PER WHIP. FLOOR RECEPTACLE TO BE HOBBLE SYSTEM ONE RECESSED (OR APPROVED EQUAL) 2-GANG FLOOR BOXES CFB2G30CR, ACCESSORY CFBHUB2, COVER 24GCFVBRBS (COLOR TO BE DETERMINE BY OWNER OR ARCHITECT).
- 7. WATER HEATER DISCONNECTS ACTUAL LOCATION TO BE COORDINATED IN THE FIELD BEFORE ROUGH IN AND TERMINATION.



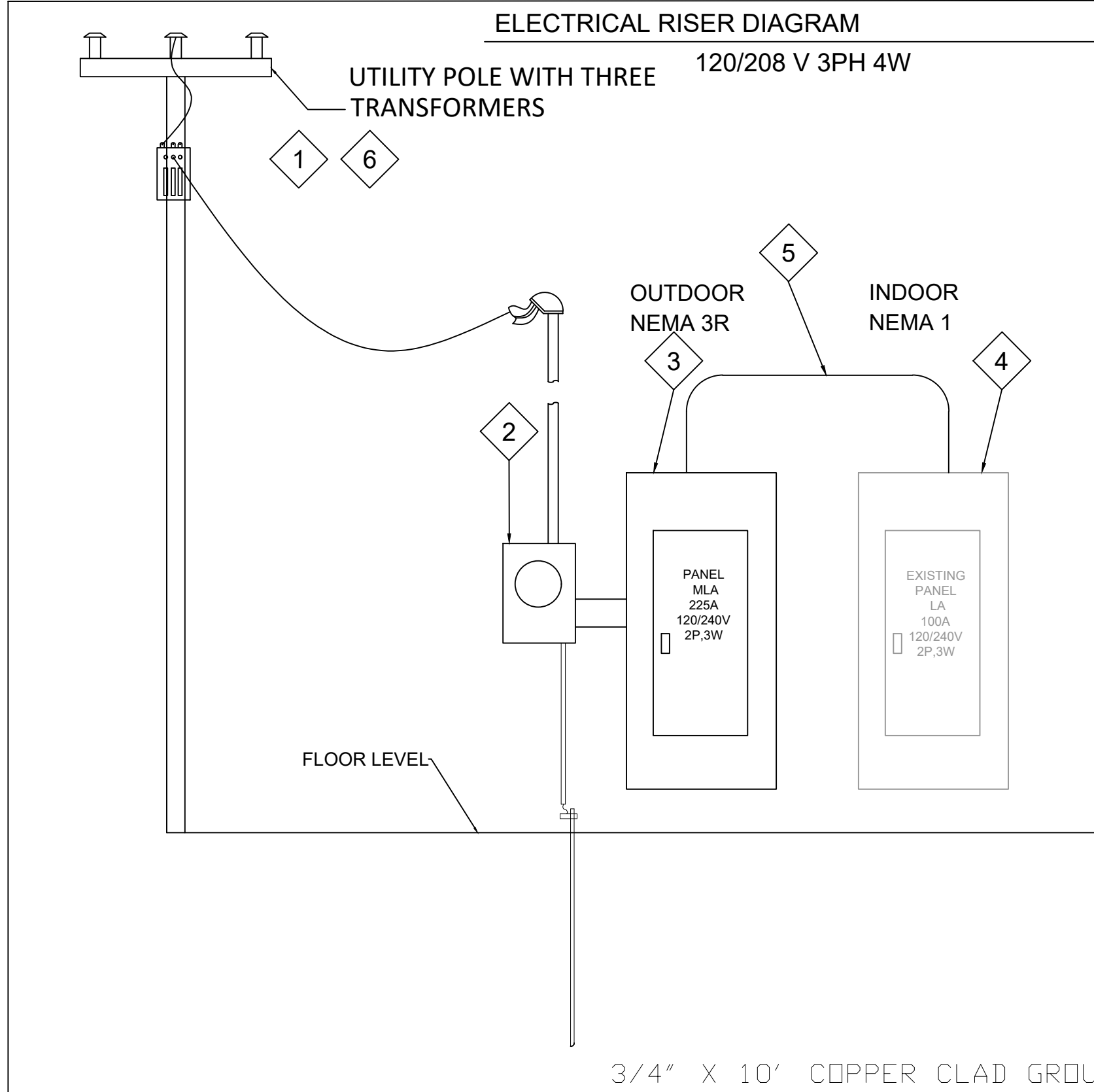
1 ELECTRICAL PLAN - JUSTICE OF THE PEACE
1/4" = 1'-0"

**ELECTRICAL PLAN-
JUSTICE OF THE
PEACE**

Project number EED-19051 EED-22110
Date 10/25/2022
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Checked by EED

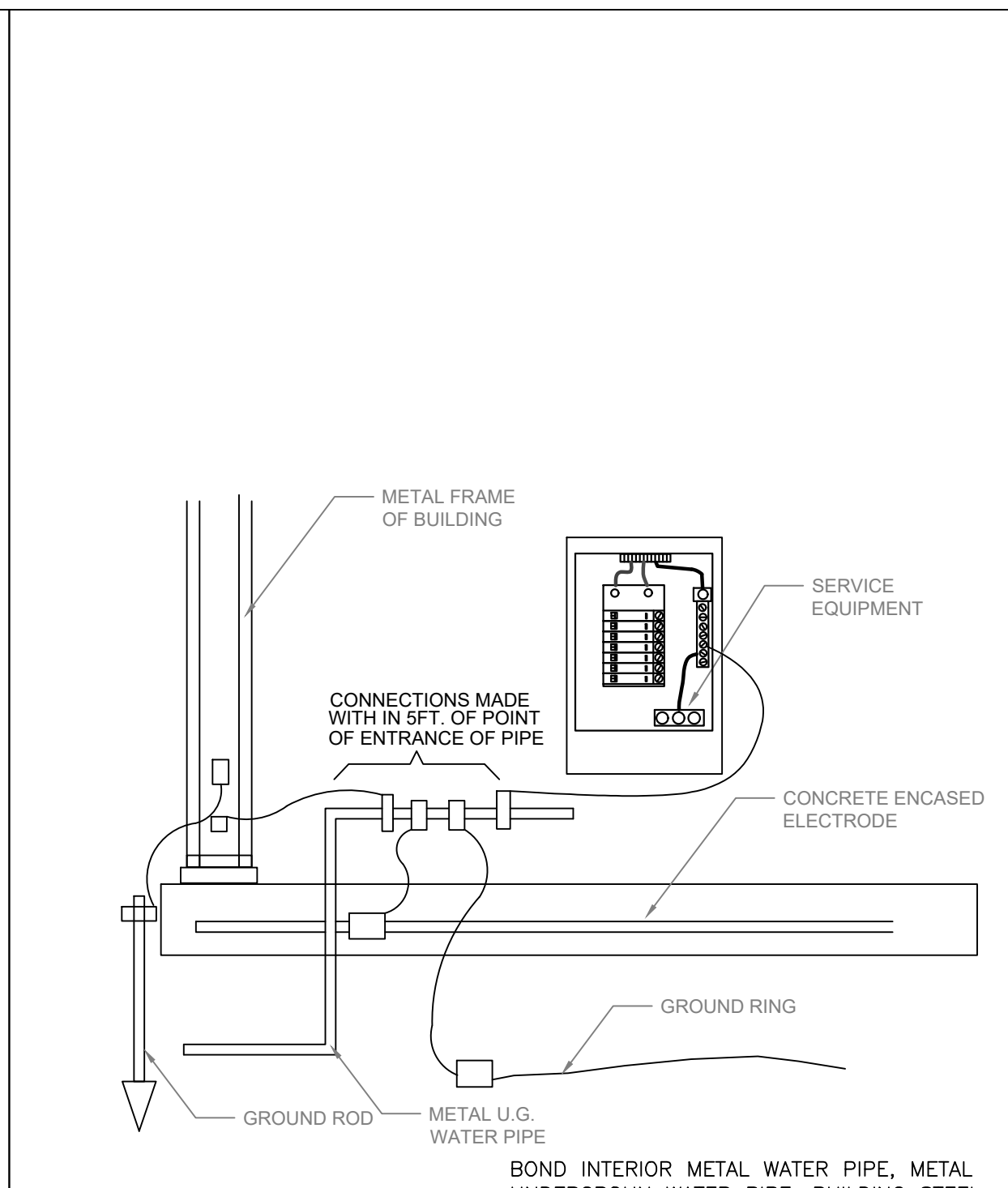
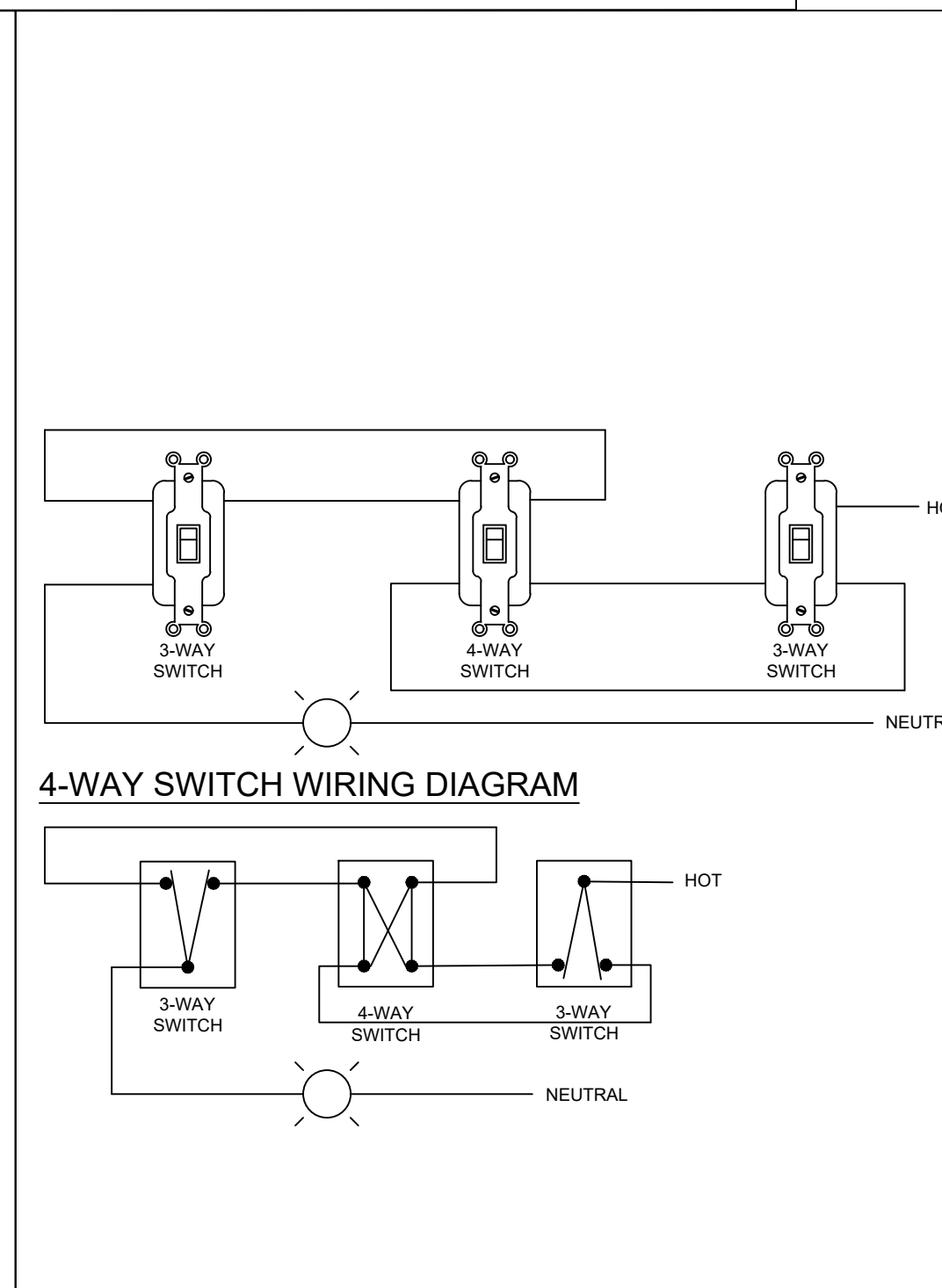
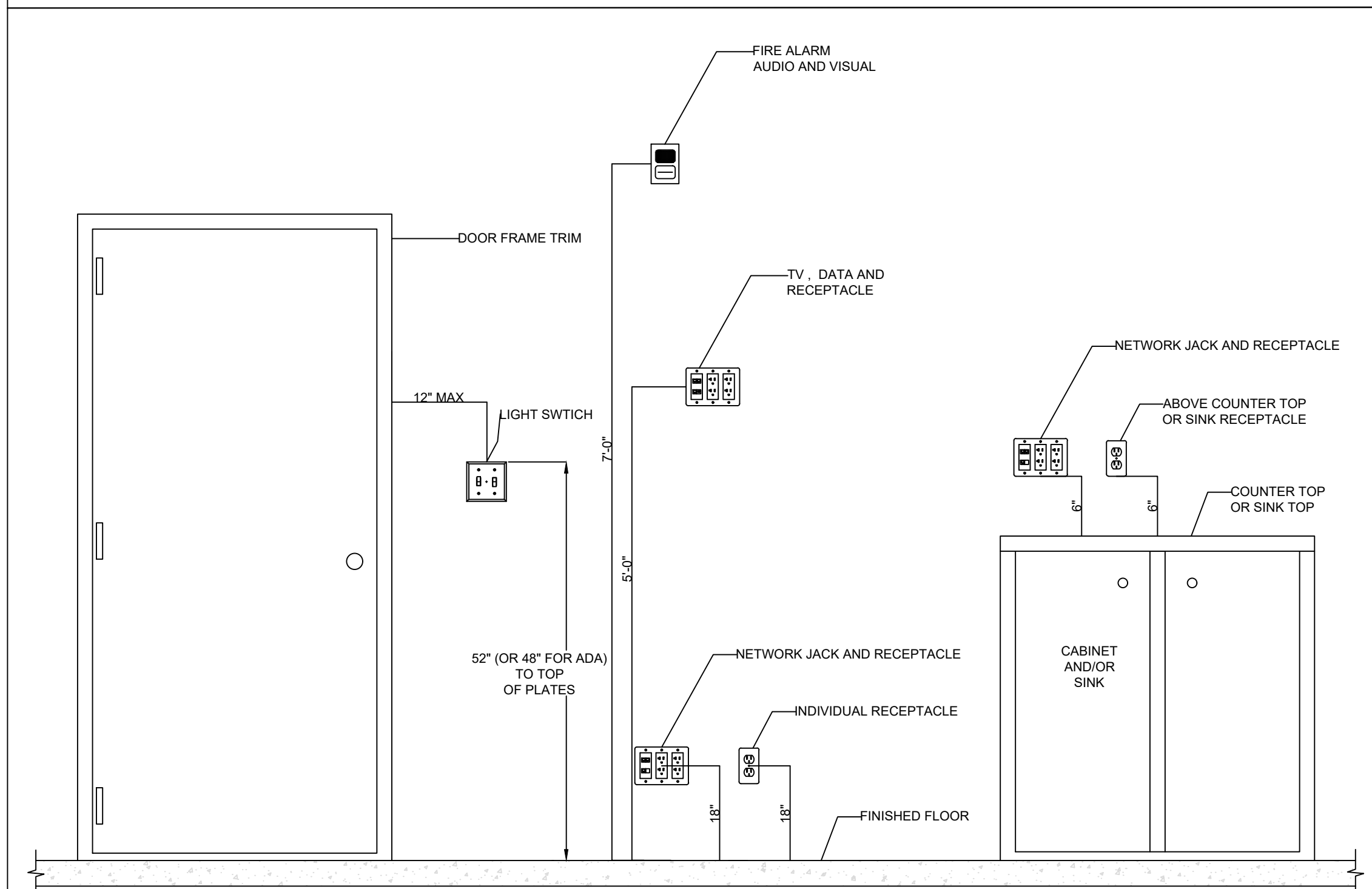
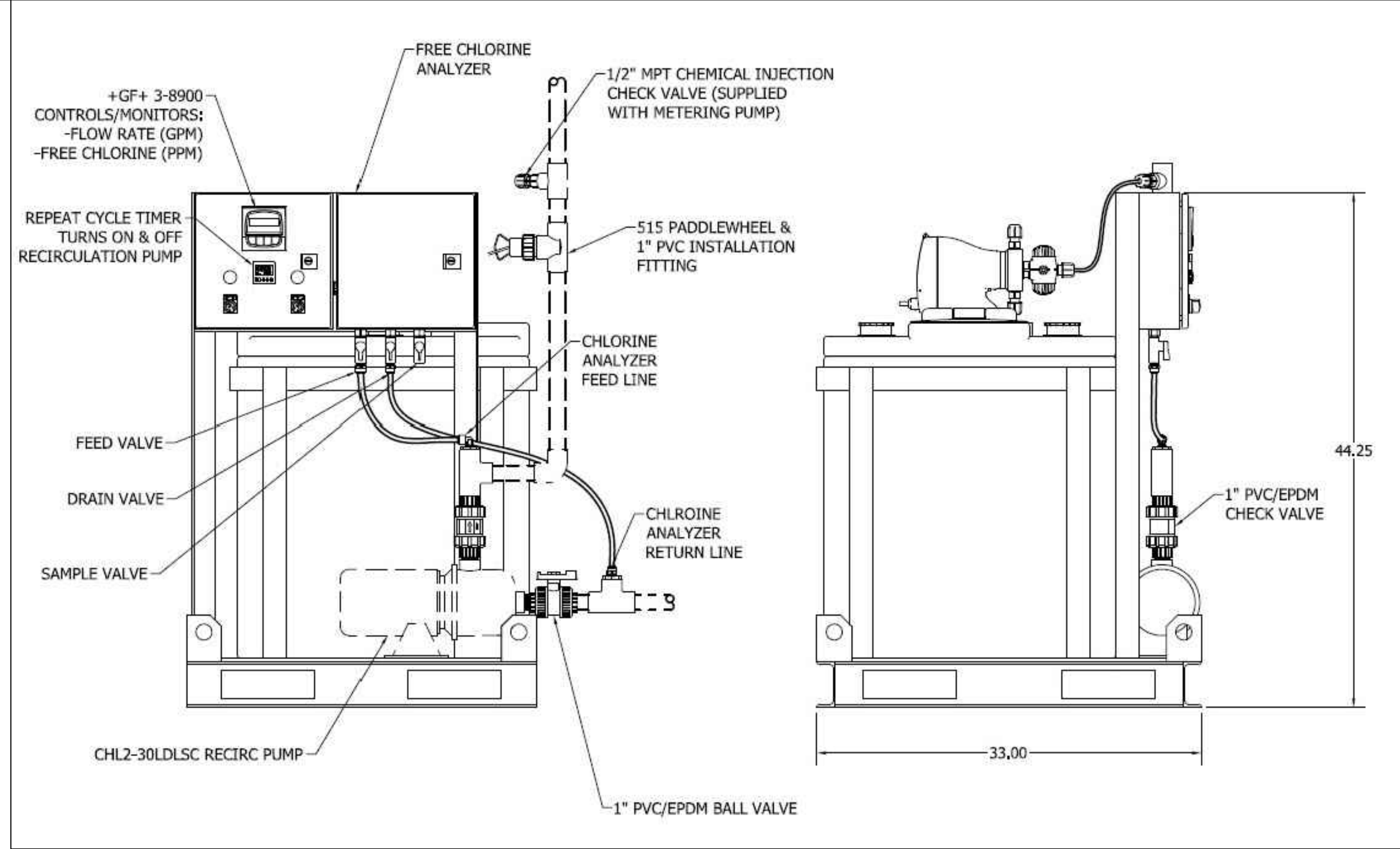
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Scale 1/4"=1'



KEYED NOTES:

- 1 POWER UTILITY SERVICE TO BE COORDINATED AT THE BEGINNING OF THE PROJECT. CONTRACTOR TO COMPLY WITH POWER UTILITY REQUIREMENTS AND INSTALLATION COST. CONDUITS TO BE CONCRETE ENCASED IN DRIVEWAYS AND PARKING LOT TRAFFIC AREAS.
- 2 VERIFY IF THE EXISTING SERVICE, WEATHER HEAD & METER ARE RATED FOR 200A, IF THEY ARE 100A, REPLACE IT WITH A 200A, 1-PH, 3-WIRE, 120/240V, 200 AMPS METER. COORDINATE EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN AND INSTALLATION.
- 3 PANEL MLA, 1-PH, 3-WIRE, 120/240, SURFACE MOUNT. ADDITIONAL INFORMATION ON PANEL SCHEDULE.
- 4 EXISTING PANEL LA, 1-PH, 3-WIRE, 120/240. ADDITIONAL INFORMATION ON PANEL SCHEDULE.
- 5 WIRES & CONDUITS BETWEEN PANEL- MLA AND PANEL- LA, REFER TO WIRING SCHEDULE.
- 6 AEP SERVICE COULD CHANGE CONFIGURATION BASED ON THEIR ACTUAL EQUIPMENT. A PADMOUNT TRANSFORMER COULD BE USED INSTEAD OF OVERHEAD TRANSFORMERS. COORDINATE WITH AEP PRIOR TO PURCHASING SERVICE EQUIPMENT. PROVIDE INSTALLATION EQUIPMENT AND MATERIAL BASED ON AEP REQUIREMENTS. COORDINATE WITH OWNER AND AEP IN THE EVENT THAT AEP NEEDS TO EXTEND THEIR THREE PHASE PRIMARY LINE TO THE SITE.



NOTES:
1. ALL SWITCHES AND RECEPTACLES SHALL BE EMBEDDED IN THE WALL UNLESS OTHERWISE INDICATED ON THE DRAWINGS.

3 OUTLETS AND DEVICES ELEVATION TYPICAL DETAILS
E TYP

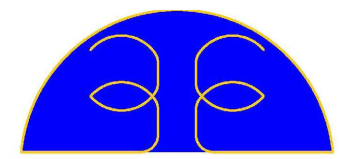
4 4-WAY SWITCH DIAGRAM
E TYP

5 BUILDING GROUNDING DETAIL
E TYP



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TYPICAL DETAILS - FIRE STATION



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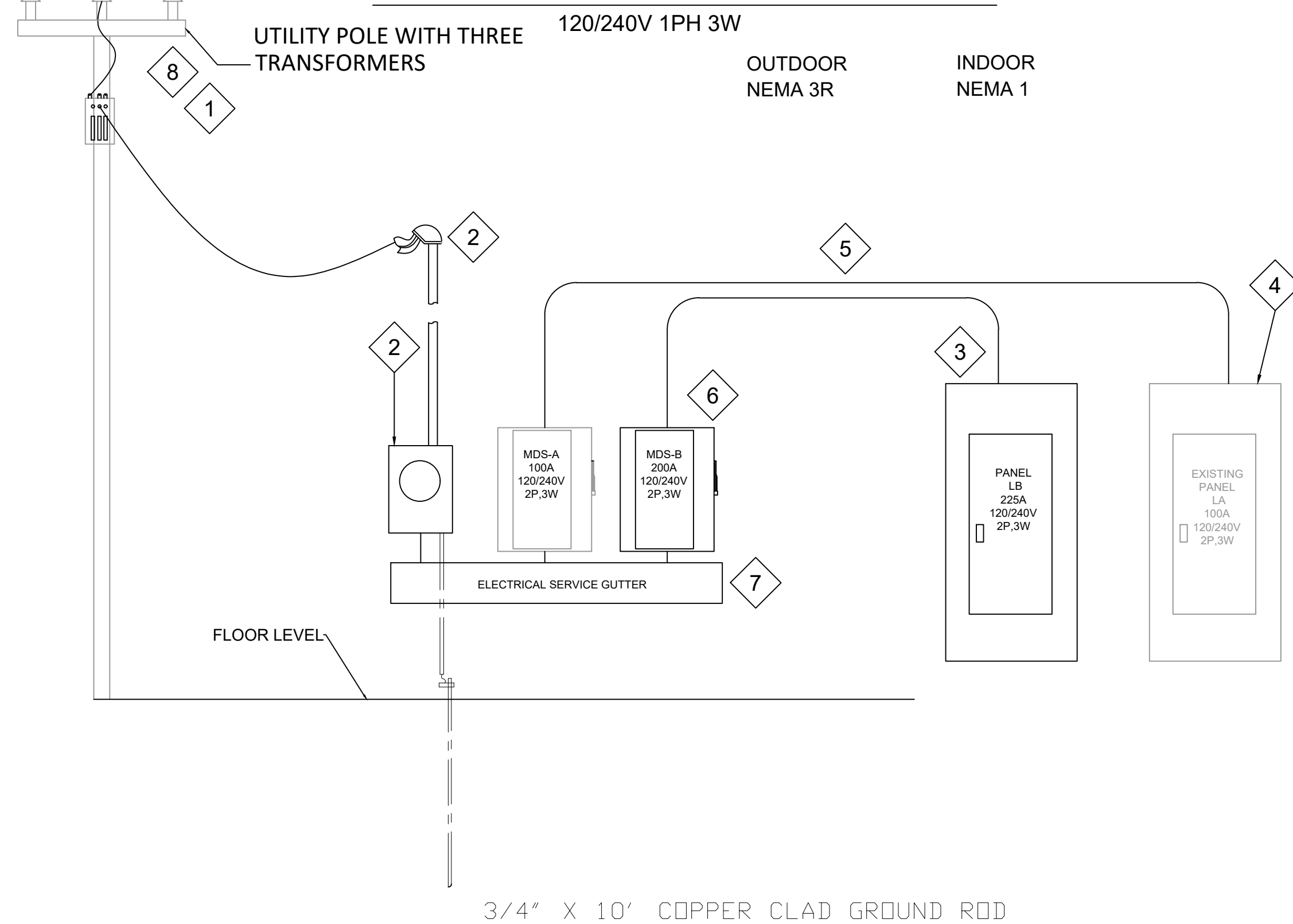


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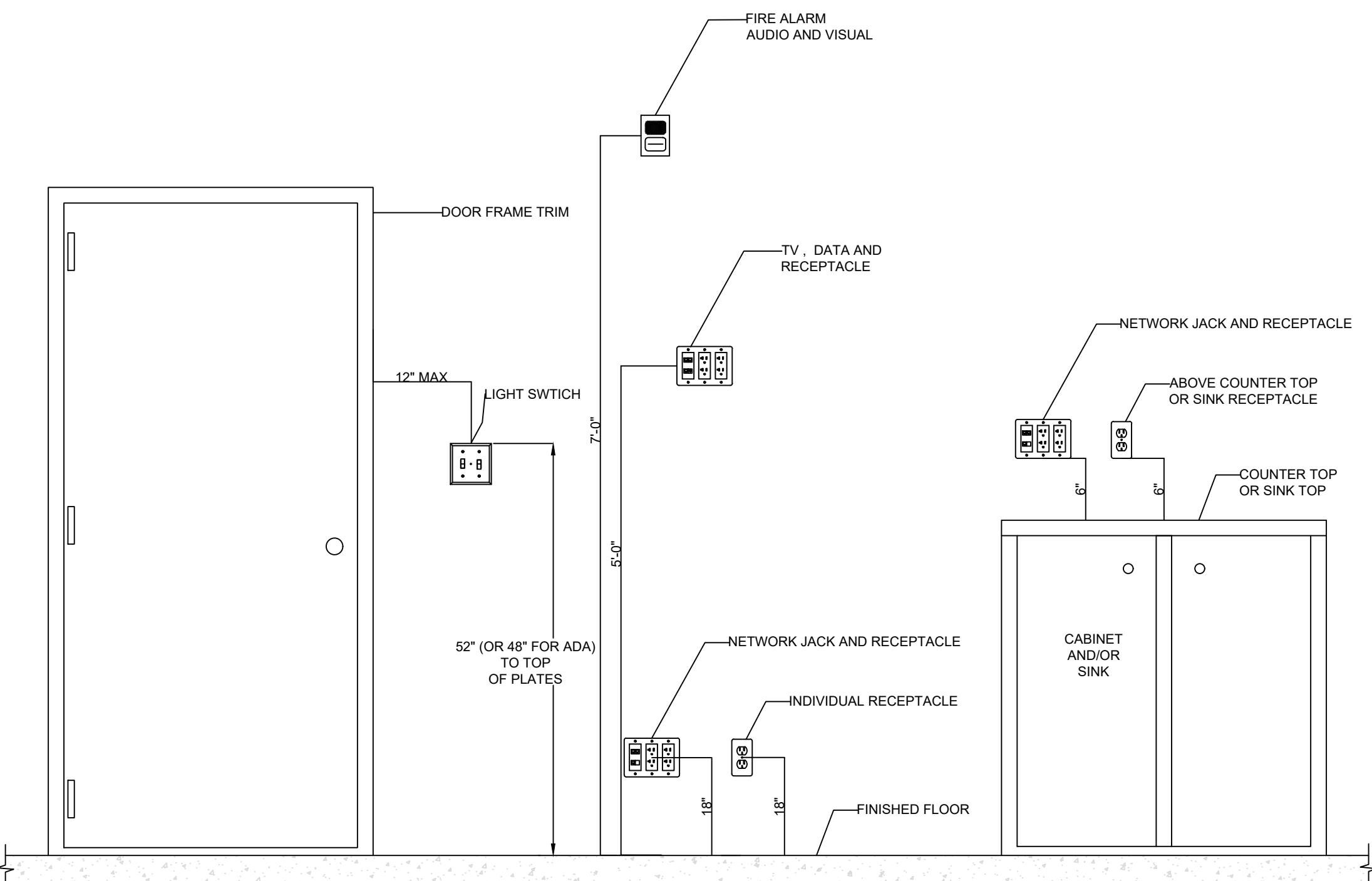
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ELECTRICAL RISER DIAGRAM

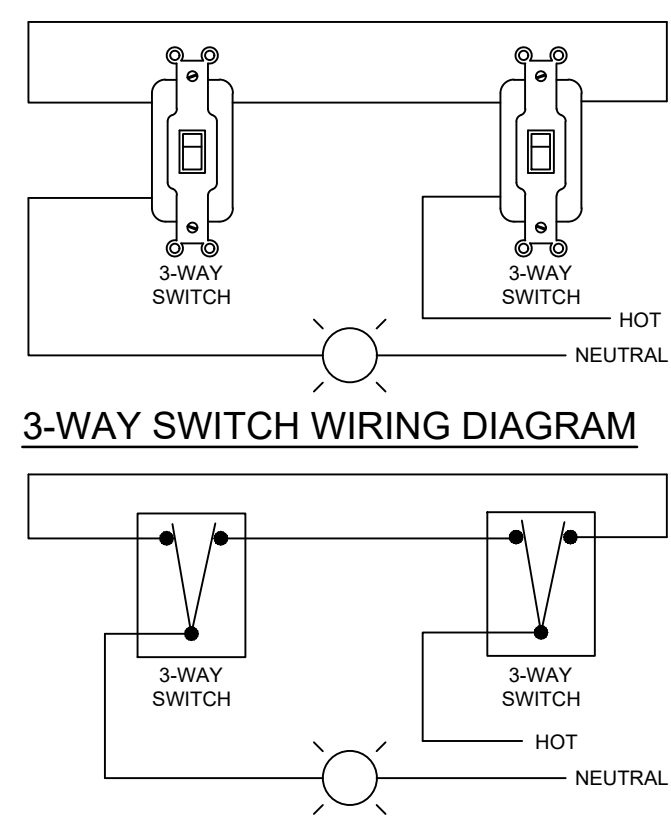


KEYED NOTES:

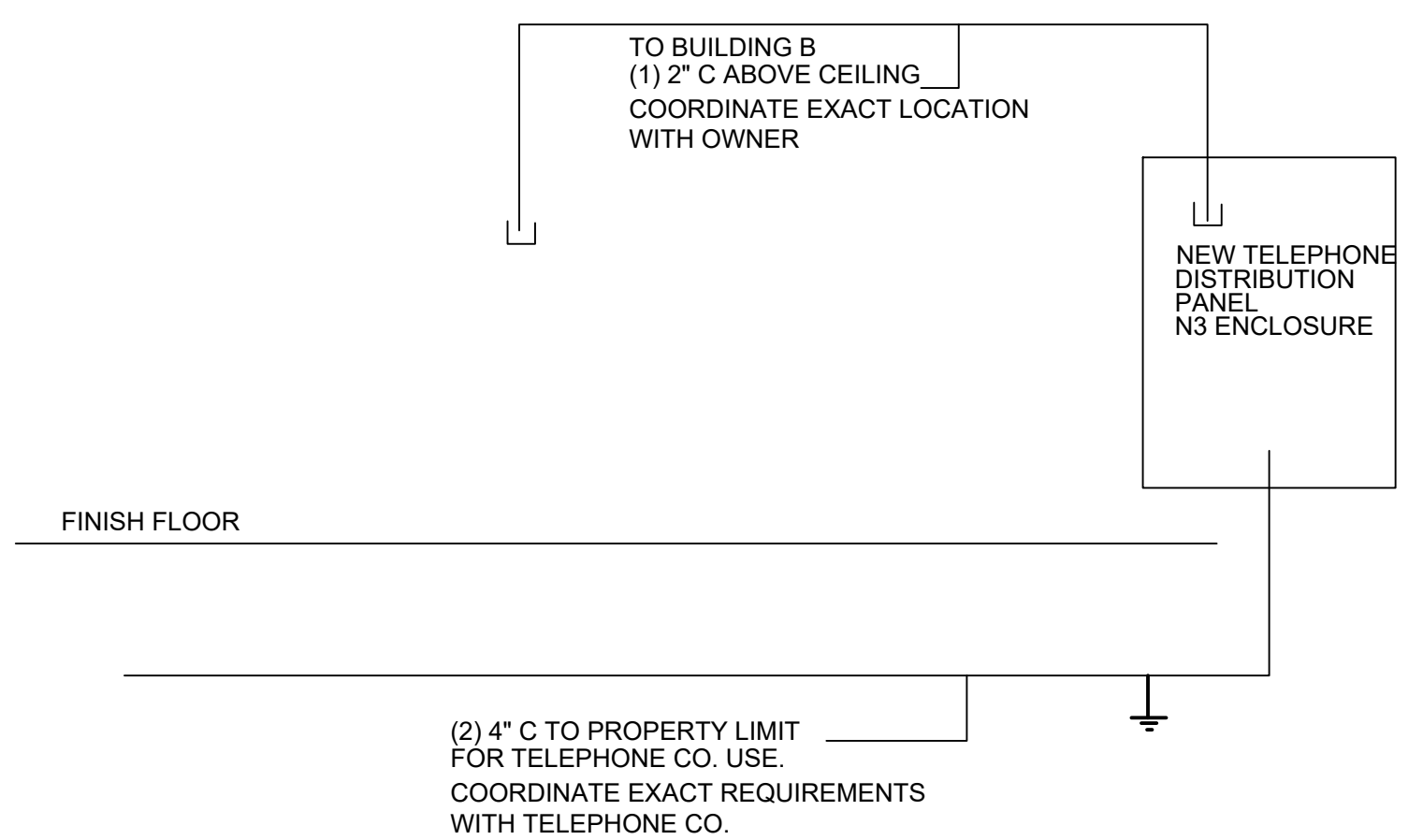
- 1 EXISTING POWER UTILITY SERVICE TO BE COORDINATED AT THE BEGINNING OF THE PROJECT. CONTRACTOR TO COMPLY WITH POWER UTILITY REQUIREMENTS AND INSTALLATION COST. CONDUITS TO BE CONCRETE ENCASED IN DRIVEWAYS AND PARKING LOT TRAFFIC AREAS.
- 2 VERIFY IF THE EXISTING SERVICE, WEATHER HEAD & METER ARE RATED FOR 300A, IF THEY ARE 100A, REPLACE IT WITH A 300A, 1-PH, 3-WIRE, 120/240V, 300 AMP METER. COORDINATE EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN AND INSTALLATION.
- 3 PANEL LB, 1-PH, 3-WIRE, 120/240, RECESS MOUNT. ADDITIONAL INFORMATION ON PANEL SCHEDULE.
- 4 EXISTING PANEL LA, 1-PH, 3-WIRE, 120/240. ADDITIONAL INFORMATION ON PANEL SCHEDULE.
- 5 SERVICE AND FEEDER WIRES & CONDUITS, REFER TO CONDUIT SCHEDULE, THERE COULD BE PARALLEL CIRCUITS.
- 6 MAIN DISCONNECT SWITCH FOR PANEL LB.
- 7 ELECTRICAL GUTTER.
- 8 PU SERVICE COULD CHANGE CONFIGURATION BASED ON THEIR ACTUAL EQUIPMENT. A PADMOUNT TRANSFORMER COULD BE USED INSTEAD OF OVERHEAD TRANSFORMERS. COORDINATE WITH AEP PRIOR TO PURCHASING SERVICE EQUIPMENT. PROVIDE INSTALLATION EQUIPMENT AND MATERIAL BASED ON AEP REQUIREMENTS. COORDINATE WITH OWNER AND AEP IN THE EVENT THAT AEP NEEDS TO EXTEND THEIR THREE PHASE PRIMARY LINE TO THE SITE.



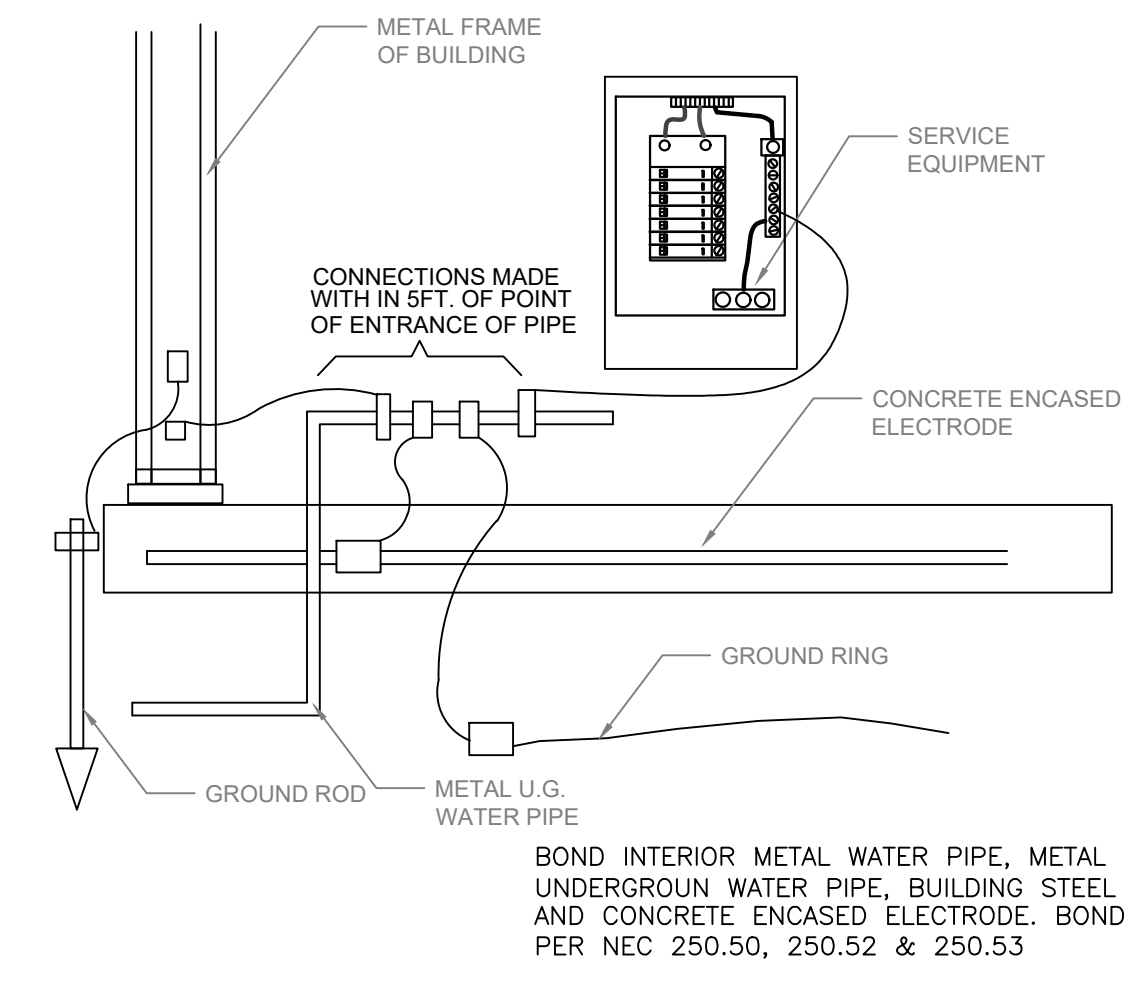
2 E TYP
OUTLETS AND DEVICES ELEVATION TYPICAL DETAILS



3 E TYP
3-WAY SWITCH DIAGRAM



4 E TYP
TELEPHONE/DATA RISER DIAGRAM



5 E TYP
BUILDING GROUNDING DETAIL

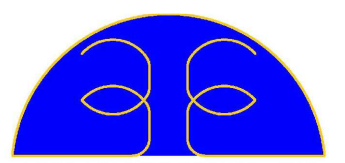


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TYPICAL DETAILS I - JUSTICE OF THE PEACE

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Scale N.T.S.



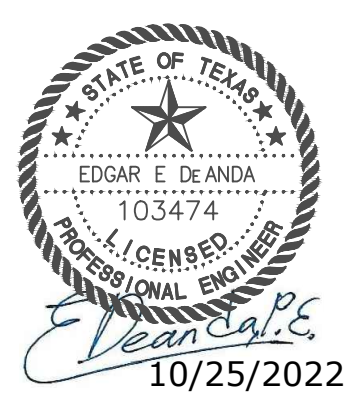
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**WATER
TREATMENT
SYSTEM PLAN**

Project number EED-19051 EED-22110
Date 10/25/2022
Drawn by FG
Checked by EED

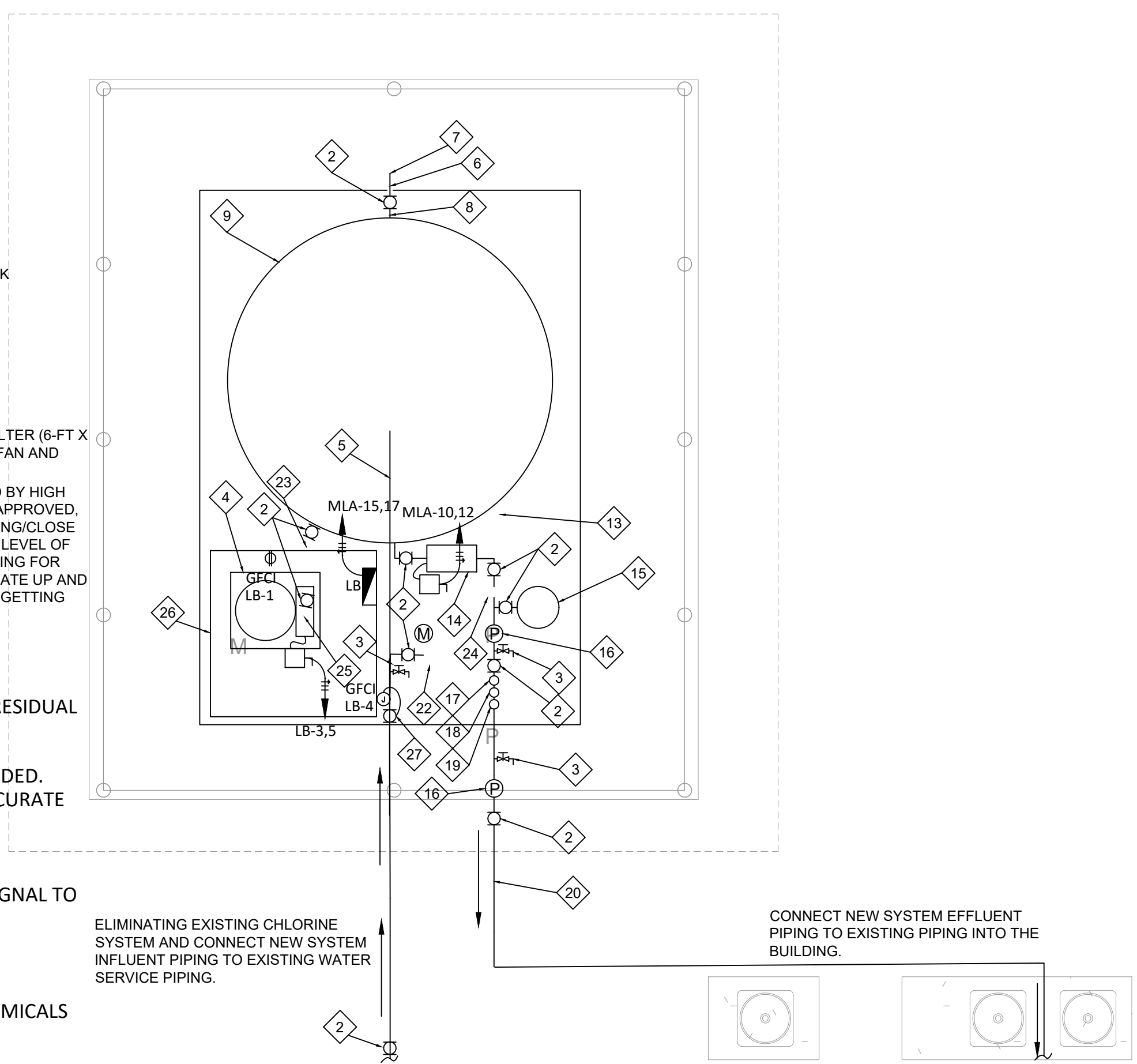
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GENERAL NOTES

- A. CONTRACTOR TO VERIFY WATER PRESSURE AT PROPOSED 10,000 GALLON WATER STORAGE TANK LOCATION.
- B. BASED ON THE TANK HEIGHT TO DELIVER WATER FROM GROUND WATER WELL, VERIFY THAT THERE IS ENOUGH PRESSURE TO PUSH WATER TO THE TANK FILLING PIPE LINE.
- C. CONCRETE PAD TO BE AT LEAST 2 FT ABOVE FINISHED GRADE AND 100YR FLOOD PLANE, TO PREVENT WATER CONTAMINATION.
- D. COORDINATE EXACT WATER STORAGE TANK LOCATION TO BE AT LEAST 20FT AWAY FROM SEPTIC DRAIN FIELDS.
- E. EXPOSED PIPING SHALL BE INSULATED.
- F. PROPOSED NEW SYSTEM IS TO CONNECT TO EXISTING SYSTEM.
- G. ALL ELECTRICAL DISCONNECTS WITHIN THE TANK CONCRETE SLAB AREA TO BE RATED NEMA 4X STAINLESS STEEL.
- H. CONDUITS, FITTINGS, AND CONDUIT BODIES WITHIN THE WATER SYSTEM AREA TO BE RIGID METAL CONDUITS PVC COATED.
- I. RECEPTACLE TO BE GFCI, WEATHER PROOF AND RATED FOR CORROSIVE ENVIRONMENT.
- J. ALL PIPING WITHIN THE TANK AREA TO BE PVC SCHEDULE 80 TO MATCH VALVES AND FITTINGS MATERIAL. INSULATED TO WITHSTAND LOCAL COLD AND HOT TEMPERATURES.
- K. UNLESS OTHERWISE STATED, ALL PIPE FITTINGS SHALL BE BRASS, THREADED, NO-LEAD, BY A.Y. McDONALD OR APPROVED EQUAL.
- L. ALL PIPING WITHIN THE SLAB TO BE ELEVATED WITH PIPE SUPPORTS TO INSTALL PROPER INSULATION SUN RATED.
- M. ALL PIPING OUTSIDE OF THE SLAB TO BE BURIED UNDERGROUND, TO HAVE A MIN. 36-IN COVER.

KEYNOTES

- 1 EXISTING WATER SUPPLY
- 2 ISOLATION PVC BALL VALVE.
- 3 3/4" FAUCET W/ VACUUM BREAKER AT 24" HEIGHT. BY A.Y. McDONALD OR APPROVED EQUAL, THREADED, NO-LEAD.
- 4 CHLORINATION SYSTEM DESIGNED TO MEET WELL WATER CHARACTERISTICS AND OUTPUT, WITH RECIRCULATING PUMP AND CHLORINE MONITORING. ADDITIONAL INFO ON PLANS AND TYPICAL DETAILS. WITH 6-FT X 8-FT X 7-FT HEIGHT FIBERGLASS SHELTER/ENCLOSURE BY GLOBALTREAT OR APPROVED EQUAL, SUPPORTED BY 8'X10'X6" THICK CONCRETE PAD.
- 5 1 1/2" PVC SCH. 80 INFLUENT LINE
- 6 3" PVC SCH. 80 OVERFLOW LINE
- 7 3" PVC SCH. 80 DRAIN W/ FLAP VALVE
- 8 3" PVC SCH. 80 TANK DRAIN
- 9 10,000 GAL HDPE TANK, 141"Ø X 160" HT HDPE MATERIAL TYPE
- 10 TANK VENT W/ SS 16-MESH
- 11 LEVEL INDICATOR
- 12 FLOAT SWITCHES TO SOLENOID VALVE TO CONTROL WATER LEVEL IN TANK LEVEL GAUGE
- 13 BOOSTER PUMP W/ DISCHARGE PRESSURE OF 80 PSI AND FLOW RATE OF 20 GPM, 240V SINGLE PHASE. PUMP TO TURN OFF AT LOW FLOAT LEVEL.
- 14 200 GAL. HYDRO PNEUMATIC TANK W/ CONTROL ON BOOSTER PUMP. START PUMP AT 40 PSI AND STOP PUMP AT 80 PSI. STEEL TANK MAX PRESSURE AT 120 PSI
- 15 OIL FILLED PRESSURE GAUGE RANGE 0 - 125 PSI
- 16 MANGOX FILTER
- 17 SEDIMENT FILTER
- 18 CARBON FILTER
- 19 1 1/2" PVC SCH. 80 EFFLUENT
- 20 30"Ø ACCESS HATCH W/ LOCK
- 21 FLOWMETER
- 22 RECIRCULATION LINE
- 23 CHECK VALVE
- 24 RECIRCULATION PUMP
- 25 CHLORINE FIBERGLASS SHELTER (6-FT X 6-FT X 7-FT) WITH EXHAUST FAN AND ELECTRICAL PANEL.
- 26 SOLENOID VALVE ACTUATED BY HIGH LEVEL FLOAT. TO BE NSF61 APPROVED, BRAS, NO-LEAD, 120V. OPENING/CLOSE TO BE CONTROLLED BY THE LEVEL OF WATER IN THE TANK, ALLOWING FOR THE TANK LEVEL TO FLUCTUATE UP AND DOWN, TO PREVENT WATER GETTING STAGNANT.



PROPOSED EQUIPMENT

- A. CHLORINE SYSTEM TURN-KEY PACKAGE:
 - A.A. HEAVY-DUTY PRE-WIRED SKID MOUNTED PACKAGE WITH CARBON STEEL 2 COAT EPOXY PAINT.
 - A.B. USE AS AN IN-LINE AUTOMATIC CHLORINATION SYSTEM OR AS A RECIRCULATION SYSTEM FOR AUTOMATIC CHLORINE RESIDUAL MAINTENANCE.
 - A.C. HEAVY-DUTY LMI METERING PUMP, SIGNET SENSORS, AND OTHER OPTIONS AVAILABLE BASED ON APPLICATION.
 - A.D. STAINLESS STEEL PUMP WITH VITON SEALS CIRCULATES WATER IN STORAGE TANKS AND DISTRIBUTION SYSTEMS IF NEEDED.
 - A.E. CHLORINE ANALYZER MONITORS CHLORINE RESIDUAL; AUTOMATICALLY ACTIVATES CHLORINE PUMP TO MAINTAIN ACCURATE RESIDUALS. CHLORINE SETTING TO A MAXIMUM OF 4.0 mgram/L AND MINIMUM OF 0.2 mgram/L OF FREE CHLORINE.
 - A.F. FLOW RATE FOR RECIRC PUMP 20 GPM (1.5 HP PUMP)
 - A.G. SUITABLE FOR LINE PRESSURES UP TO 110 PSI
 - A.H. 3.5" COLOR TOUCH SCREEN CONTROLLER, BASED ON FLOW AND CHLORINE READING SENDS PROPORTIONAL 4-20MA SIGNAL TO METERING PUMP.
 - A.I. BUILT-IN REPEAT CYCLE TIMER CONTROLS OPTIONAL RECIRCULATION PUMP.
 - A.J. DUAL CONTAINMENT CHLORINE SOLUTION TANK 35 GALLON.
 - A.K. DATA LOGGER AND NETWORK INTERFACE MAINTAINS RESIDUAL LOG AND TRANSMITS DATA TO NETWORK.
 - A.L. INJECT SODIUM HYPOCHLORITE, HYDROGEN PEROXIDE, OR SODIUM HYDROXIDE FOR PH ADJUSTMENT AND OTHER CHEMICALS AS REQUIRED.
 - A.M. COMPACT PACKAGE READY TO SHIP WORLDWIDE.
 - A.N. 1 YEAR LIMITED WARRANTY
 - A.O. MANUFACTURER: CLEAN WATER SYSTEMS (CWS), GLOBAL TREAT, OR APPROVED EQUAL
 - A.P. MANUFACTURER #: CS000480 (CWS)
- B. CHLORINE FIBERGLASS SHELTER CORROSION RESISTANT, TURN-KEY PACKAGE:
 - B.A. FIBERGLASS REINFORCED POLYESTER SKINS WITH ONE INCH ISOCYANURATE FOAM INSULATING CORE
 - B.B. WHITE UV PROTECTIVE POLYESTER GEL COAT INSIDE AND OUT
 - B.C. 125AMP, MAIN LUG, 8 BRANCH CIRCUIT PANEL IN A NEMA 3R PLASTIC ENCLOSURE
 - B.D. PRE-WIRED USING 12 GA. WIRING IN U.L. LISTED NONMETALLIC FLEXIBLE CONDUIT
 - B.E. TWO DUPLEX OUTLETS (115V)
 - B.F. INTERIOR VAPOR-RESISTANT INCANDESCENT LAMP
 - B.G. CORROSION RESISTANT FAN (INTAKE OR EXHAUST) WITH SCREENED FIBERGLASS HOOD
 - B.H. FIXED ALUMINUM VENTILATION LOUVER
 - B.I. EXTERNAL WEATHERPROOF SWITCH FOR FAN AND LIGHT
 - B.J. STAINLESS STEEL LOCKSET, STAINLESS STEEL PIANO HINGE, DOOR GASKET
 - B.K. GALVANIZED PLATED LIFTING EYE(S)
 - B.L. SPRING CUSHIONED CRASH STOP ON DOOR
 - B.M. FIBERGLASS AWNING ABOVE DOORWAY
 - B.N. EQUIPMENT MOUNTING BOARD LAMINATED TO INTERIOR WALL
 - B.O. MANUFACTURER: GLOBAL TREAT OR APPROVED EQUAL
 - B.P. MANUFACTURER #: GTI-SH-7272



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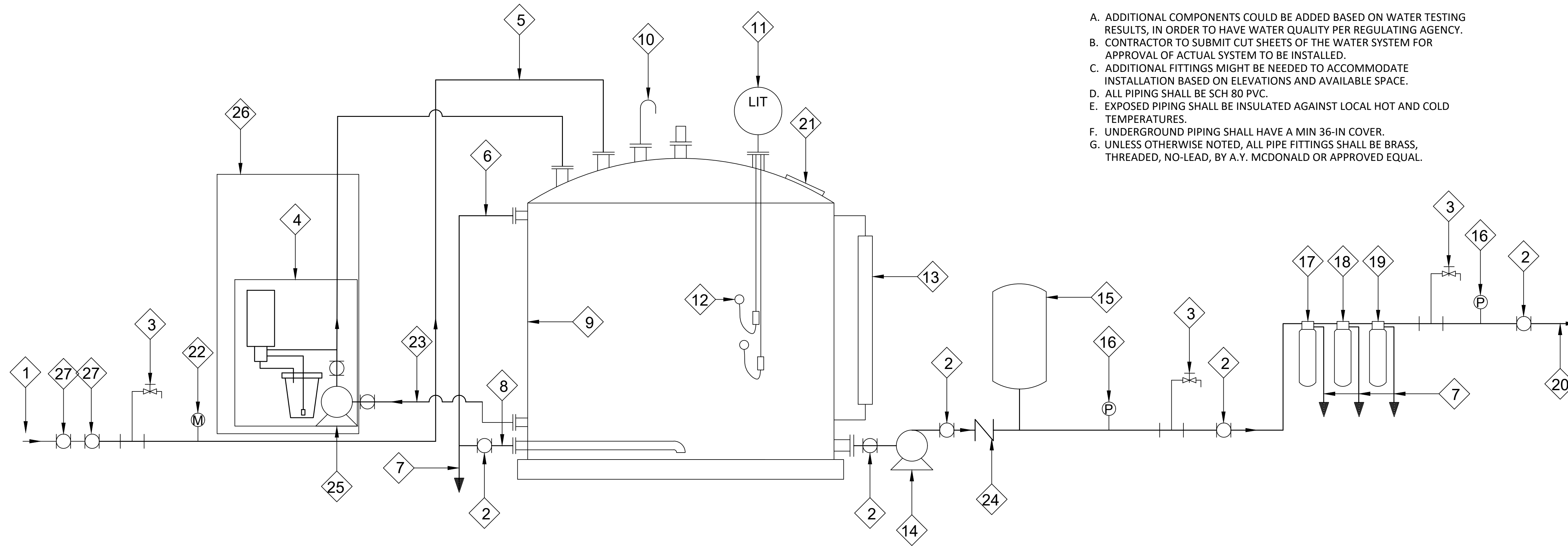
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23235 SH 359
ABST 2655 SUR 822 H E & W T 2.53 ACS
BRUNI, TEXAS 78344

GENERAL NOTES

- A. ADDITIONAL COMPONENTS COULD BE ADDED BASED ON WATER TESTING RESULTS, IN ORDER TO HAVE WATER QUALITY PER REGULATING AGENCY.
- B. CONTRACTOR TO SUBMIT CUT SHEETS OF THE WATER SYSTEM FOR APPROVAL OF ACTUAL SYSTEM TO BE INSTALLED.
- C. ADDITIONAL FITTINGS MIGHT BE NEEDED TO ACCOMMODATE INSTALLATION BASED ON ELEVATIONS AND AVAILABLE SPACE.
- D. ALL PIPING SHALL BE SCH 80 PVC.
- E. EXPOSED PIPING SHALL BE INSULATED AGAINST LOCAL HOT AND COLD TEMPERATURES.
- F. UNDERGROUND PIPING SHALL HAVE A MIN 36-IN COVER.
- G. UNLESS OTHERWISE NOTED, ALL PIPE FITTINGS SHALL BE BRASS, THREADED, NO-LEAD, BY A.Y. MCDONALD OR APPROVED EQUAL.



**PROCESS FLOW DIAGRAM FOR
WATER TREATMENT SYSTEM**

1 WATER SYSTEM TREATMENT PROCESS DIAGRAM
N.T.S.

KEYNOTES

- | | | |
|--|---|--------------------------------|
| 1 EXISTING WATER SUPPLY | 10 TANK VENT W/ SS 16-MESH | 19 CARBON FILTER ** |
| 2 ISOLATION PVC BALL VALVE. | 11 LEVEL INDICATOR | 20 EFFLUENT |
| 3 3/4" FAUCET W/ VACUUM BREAKER. BY A.Y. MCDONALD OR APPROVED EQUAL, THREADED, NO-LEAD | 12 FLOAT SWITCHES | 21 ACCESS HATCH |
| 4 CHLORINATION SYSTEM DESIGNED TO MEET WELL WATER CHARACTERISTICS AND OUTPUT. WITH FIBERGLASS SHELTER. | 13 LEVEL GAUGE | 22 FLOWMETER |
| 5 INFLUENT LINE | 14 BOOSTER PUMP | 23 RECIRCULATION LINE |
| 6 OVERFLOW LINE | 15 HYDRO PNEUMATIC TANK SUPPORTED BY CONCRETE PAD | 24 CHECK VALVE |
| 7 DRAIN W/ FLAP VALVE | 16 PRESSURE GAUGE | 25 RECIRCULATION PUMP |
| 8 TANK DRAIN | 17 MANGOX FILTER ** | 26 CHLORINE FIBERGLASS SHELTER |
| 9 10,000 GAL HDPE TANK, 141"Ø X 160" HT | 18 SEDIMENT FILTER ** | 27 SOLENOID VALVE |

** FILTERS TO BE SET AS REQUIRE TO MEET TCEQ REQUIREMENTS, BASED ON WATER SAMPLE ANALYSIS



NO.	DESCRIPTION	REV.	DATE
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**WATER TREATMENT
SYSTEM PROCESS
DIAGRAM**

Project number EED-19051 EED-22110
Date 10/25/2022
Drawn by FG
Checked by EED

EPW101
Scale N.T.S.



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**QUAD CITY FIRE STATION &
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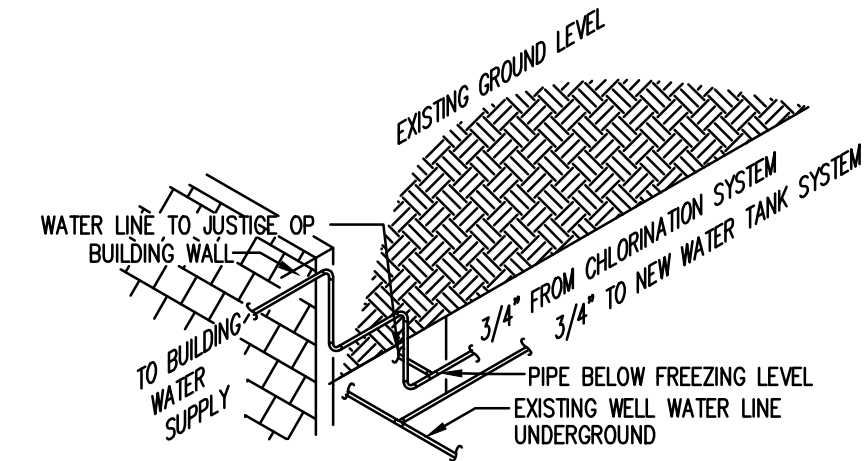
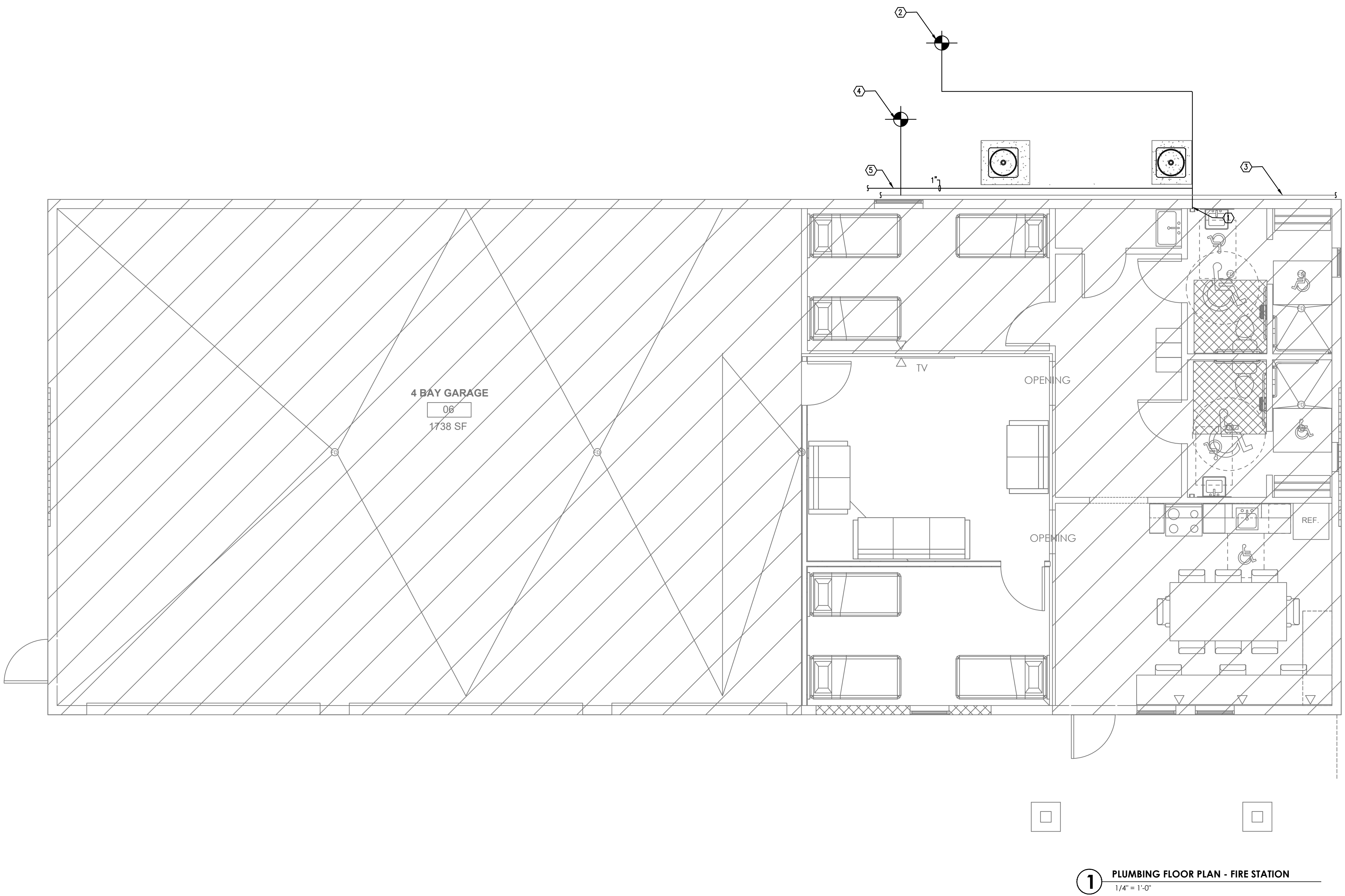
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**PLUMBING
FLOOR PLAN
FIRE STATION**

Project number	EED-19051	EED-22110
Date	10/25/2022	
Drawn by	FG	
Checked by	EED	

P100

Scale

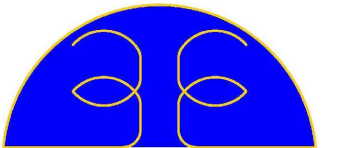


2 PLUMBING WATER ENTRY DETAIL
P100 NTS

PLUMBING KEYED NOTES

- APPROXIMATE LOCATION OF EXISTING WATER ENTRY SERVICE. REF REFER TO WATER DIAGRAM FOR DETAILS.
- CONNECT NEW LINE FROM NEW WATER CHLORINATION TREATMENT SYSTEM.
- APPROXIMATE LOCATION OF EXISTING WELL WATER LINE
- ROUTE NEW LINE TO NEW WATER TANK SYSTEM.
- ROUTE NEW 1" LINE TO NEW JUSTICE OF THE PEACE FACILITY. INSTALL MINIMUM OF 1"6 FROM THE BUILDINGS FOUNDATION. INSTALL BELOW FREEZE LINE. CONTRACTOR SHALL VERIFY EXISTING JOP WATER LINE LOCATION AND COORDINATE ROUTING WITH EXISTING ELEMENTS.

1 PLUMBING FLOOR PLAN - FIRE STATION
1/4" = 1'-0"



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PLUMBING FLOOR PLAN JUSTICE OF THE PEACE

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P101

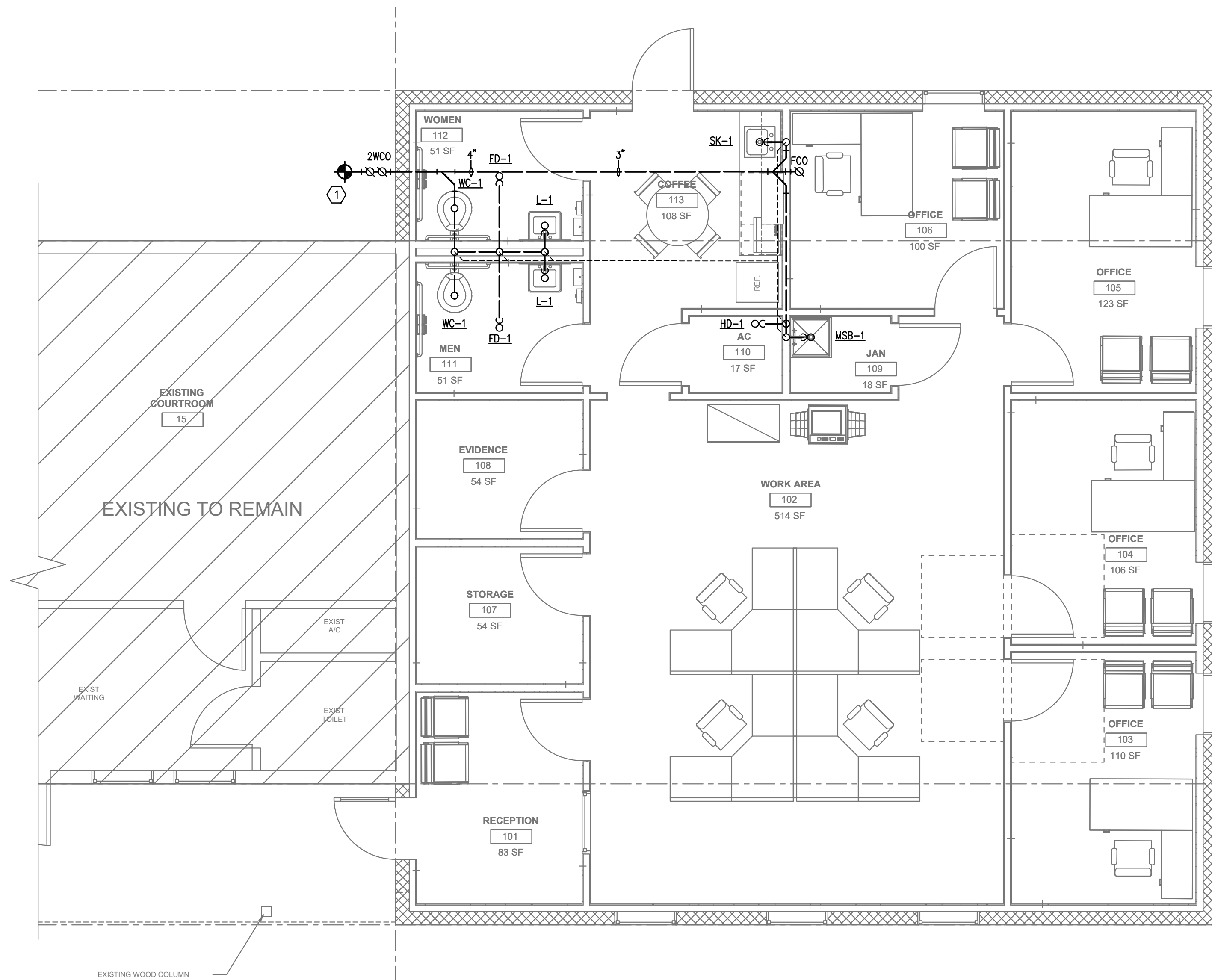
Scale 1/4" = 1'

PLUMBING KEYED NOTES

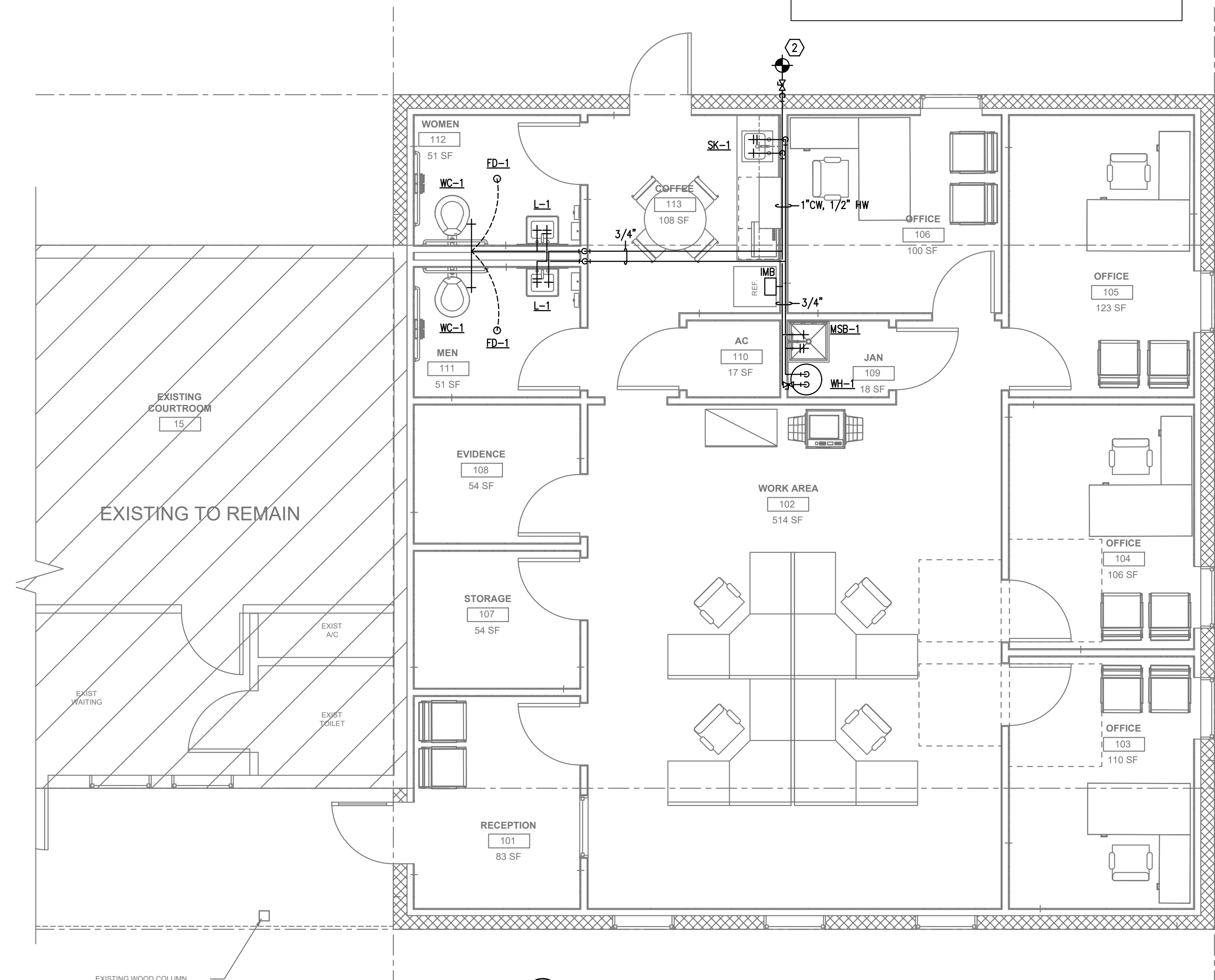
- ① CONNECT TO SEWER LINE IN THIS VICINITY. CONTRACTOR SHALL FIELD VERIFY PRIOR ANY ROUTING
- ② CONNECT TO NEW DOMESTIC WATER SYSTEM. CONTRACTOR SHALL FIELD VERIFY PRIOR TO ANY ROUTING.

PLUMBING LEGEND

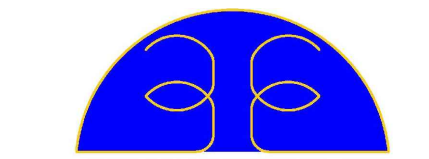
- SANITARY
- VENT
- COLD WATER
- HOT WATER



1 PLUMBING SEWER FLOOR PLAN-JUSTICE OF THE PEACE
1/4" = 1'-0"



2 PLUMBING WATER FLOOR PLAN JUSTICE OF THE PEACE
1/4" = 1'-0"



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PLUMBING FIXTURE SCHEDULE

FLUSH TANK FIXTURES

MARK	FIXTURE TYPE	CONNECTION SIZE				DESCRIPTION
		San. Sewer	Vent	Cold Water	Hot Water	
WC-1	WATER CLOSET TANK TYPE HANDICAP	4"	2"	1/2"	-	AMERICAN STANDARD CADET 3 STANDARD HEIGHT "CADET 3" 270AN.101.020 FLUSH TANK WATER CLOSET, 16-1/2" RIM HEIGHT, TWO PIECE VITREOUS CHINA, ELONGATED, 12" ROUGH-IN, 1.28 GPF, OPEN FRONT SEAT BY BENEKE COMPLETE, WITH TANK FITTINGS AND BOLT CAPS, PROVIDE SLOAN FLUSHMATE.

LAVATORY FIXTURES

MARK	FIXTURE TYPE	CONNECTION SIZE				DESCRIPTION
		San. Sewer	Vent	Cold Water	Hot Water	
L-1	LAVATORY WALL HUNG STANDARD AND ADA	2"	2"	1/2"	1/2" TW	AMERICAN STANDARD "LUCERNE" WALL HUNG MODEL NO. 0356.012 (WHITE) VITREOUS CHINA, FRONT OVERFLOW, SELF DRAINING DECK AREA WITH CONTOURED BACK AND SIDE SPLASH SHIELDS, COMPLETE WITH LAVATORY FAUCET BY AMERICAN STANDARD MODEL NO. 2385.002 CHROME PLATED, SINGLE LEVER, VANDAL RESISTANT, ADA COMPLIANT WITH ZURN Z1231 CARRIER AND PROTECTIVE COVERING ONP-TRAP AND STOPS.

SINK FIXTURES

MARK	FIXTURE TYPE	CONNECTION SIZE				DESCRIPTION
		San. Sewer	Vent	Cold Water	Hot Water	
SK-1	19"X19" STAINLESS STEEL SINK	2"	2"	1/2"	1/2"	SINGLE COMPARTMENT STAINLESS STEEL SINK BY ELKAY MODEL NO. LRAD191965 304 S.S. DROP IN, SINGLE BOWL 19"X19" SINK, COORDINATE FAUCET HOLE CONFIGURATION WITH FAUCET SELECTION, 1.5 GPM, ADA COMPLIANT.

WMC/IMC FIXTURES

MARK	FIXTURE TYPE	CONNECTION SIZE				DESCRIPTION
		San. Sewer	Vent	Cold Water	Hot Water	
IMB	ICE MAKER BOX	-	-	1/2"	-	CONNECTION BOX EQUAL TO GUY GRAY NO. 82381 PREFABRICATED RECESSED BOX WITH COMPRESSION ANGLE VALVE.

MOP SINK FIXTURES

MARK	FIXTURE TYPE	CONNECTION SIZE				DESCRIPTION
		San. Sewer	Vent	Cold Water	Hot Water	
MSB-1	MOP SINK BASIN	3"	2"	1/2"	1/2"	MOP SERVICE BASIN: AMERICAN STANDARD 7741.00 ENAMEL CAST IRON 28"X 28"X 13" CORNER MODEL, TRIM: T & S FAUCET B-0665-BSTR, HOSE BRACKET B-0654 AND MOP HANGER.

MISC FIXTURES

MARK	FIXTURE TYPE	CONNECTION SIZE				DESCRIPTION
		San. Sewer	Vent	Cold Water	Hot Water	
FD-1	FLOOR DRAIN	AS NOTED ON PLANS				FLOOR DRAIN ZURN ZN-415 DURA-COATED CAST IRON BODY & ADJUSTABLE COLLAR. TYPE "B", 3"DIAMETER, POLISHED NICKEL BRONZE STRAINER, WITH FLASHING CLAMP DEVICE, PROVIDE W/ TRAP PRIMER CONNECTION
FD-1	GENERAL DUTY FLOOR DRAIN	AS NOTED ON PLANS				EQUAL TO JOSAM PART # 30003-6A-Y-50, CAST IRON BPDY WITH CLAMP RING, FLANGE, ADJUSTABLE NIKALOY STRAINER, HUB OUTLET WITH GASKET AND 1/2" PRIMER TAP.
HD	CONDENSATE FLOOR DRAIN	AS NOTED ON PLANS				EQUAL TO JOSAM PART # 30002-357, COATED CAST IRON BODY WITH CLAMP RING, TWO PIECE BODY WITH DOUBLE DRAINAGE FLANG.
WCO	WALL CLEANOUT	MATCH PIPE	-	-	-	WALL CLEANOUT ZURN Z-1468 STAINLESS STEEL, WITH 1/4-20 SCREW TO CLEANOUT PLUG INSTALL 18" AFF.
GCO	GRADE CLEANOUT	MATCH PIPE	-	-	-	GRADE CLEANOUT ZURN ZB-1400-HD EXTERIOR, ADJUSTABLE CLEANOUT, DUCCO COATED, CI BODY, ABS TAPERED PLUG WITH GASKET, HEAVY DUTY TOP.
FCO	FLOOR CLEANOUT	MATCH PIPE	-	-	-	FLOOR CLEANOUT ZURN ZN-1400-VP INTERIOR, FLOOR TYPE, ABS TAPERED PLUG WITH GASKET SEAL & NICKEL BRONZE TOP. "C.O." CAST IN THE TOP, SPANNER WRENCH REMOVAL.
TP-1	TRAP PRIMER	MATCH PIPE	-	-	-	TRAP PRIMER: PPP PR 500 DU-U ROUTE PRIMER PIPING IN WALL TO FLOOR DRAIN.
TMV	THERMOSTATIC MIXING VALVE	-	-	3/4"	3/4"	THERMOSTATIC MIXING VALVE BRADLEY S59-4015 MIN FLOW 0.5 GPM LOW RANGE THERMOSTAT, DIAL THERMOMETER, LIQUID-FILLED THERMOSTAT, INTEGRAL STRAINER CHECKSTOP, DIRT AND LIME RESISTANT, 3/4" INLETS AND 1" OUTLET

TALL WATER HEATER FIXTURE SCHEDULE

MARK	FIXTURE TYPE	CONNECTION SIZE				DESCRIPTION
		San. Sewer	Vent	Cold Water	Hot Water	
WH-1	ELECTRIC WATER HEATER	-	-	3/4"	3/4"	ELECTRIC WATER HEATER: A.O. SMITH DEN-30 FOAM INSULATED, SIDE CONNECTED, 30 GALLON, 4500 WATT, 240 VOLT, UL LISTED, ASHRAE APPROVED.

10/25/2022

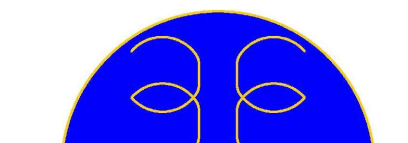


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PLUMBING SCHEDULES
JUSTICE OF THE PEACE

Project number EED-19051 EED-22110
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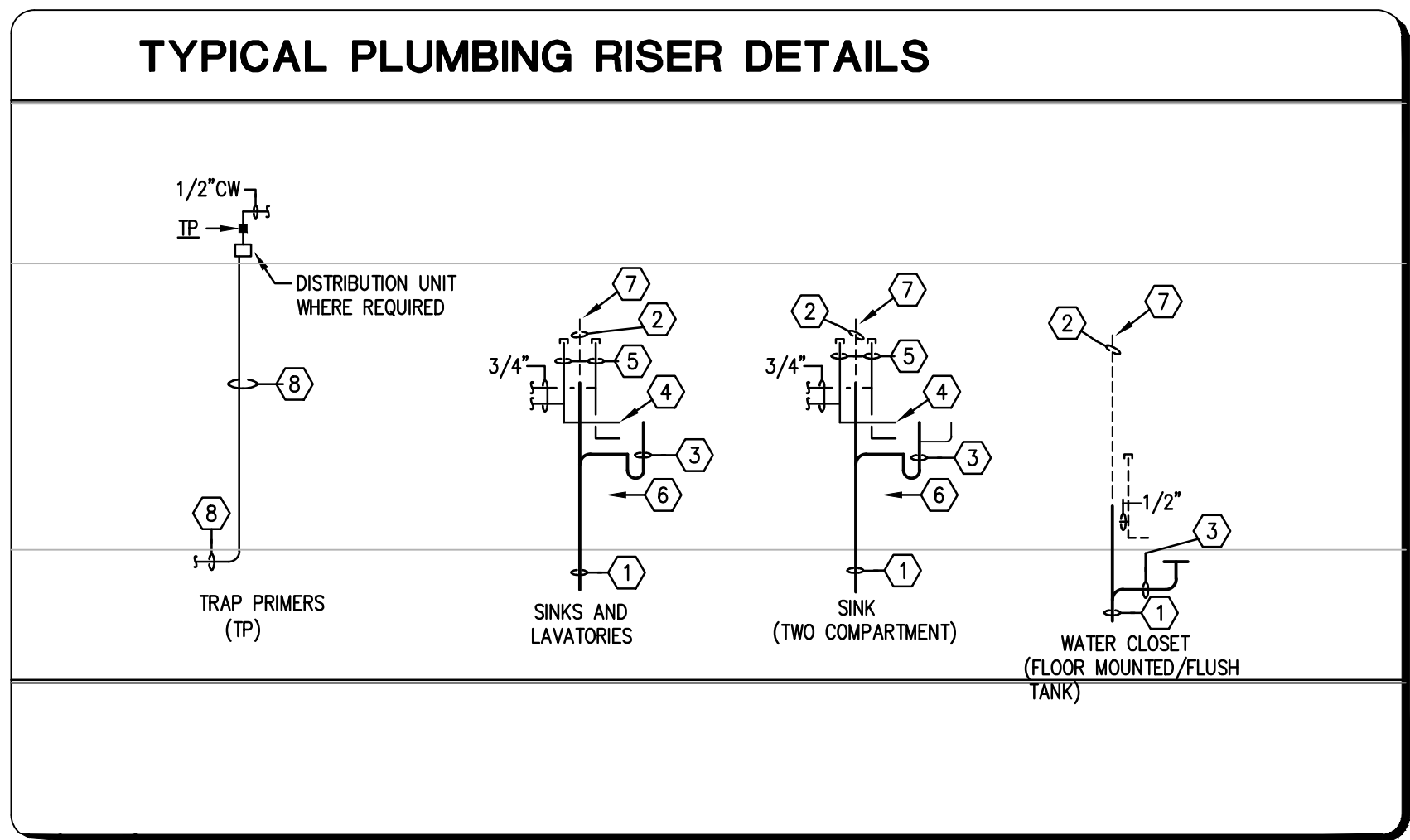
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PLUMBING DETAILS JUSTICE OF THE PEACE

Project number EED-19051 EED-22110
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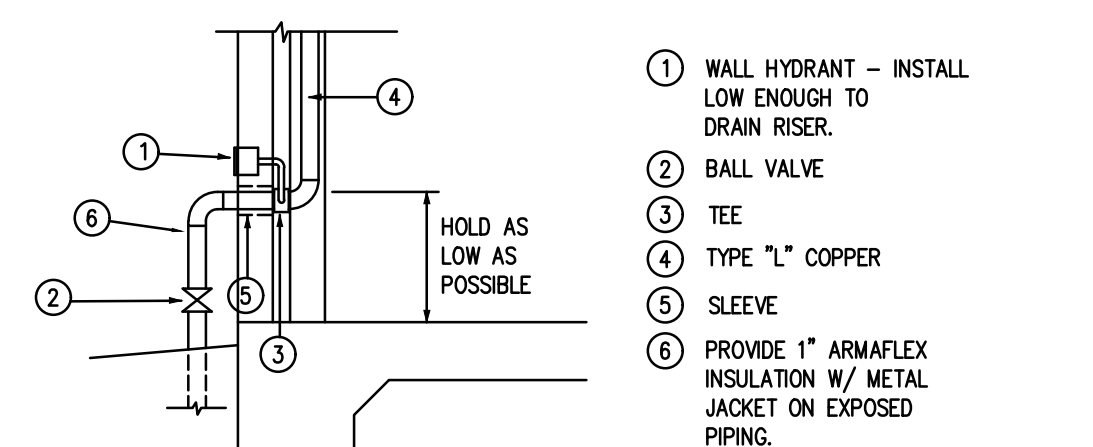
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Scale N.T.S.

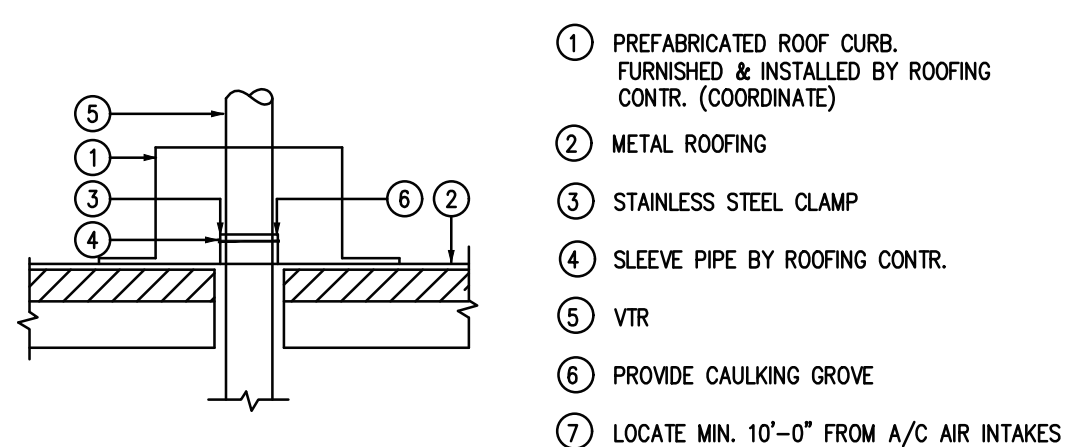


KEYED NOTES - RISER DIAGRAM DETAILS:

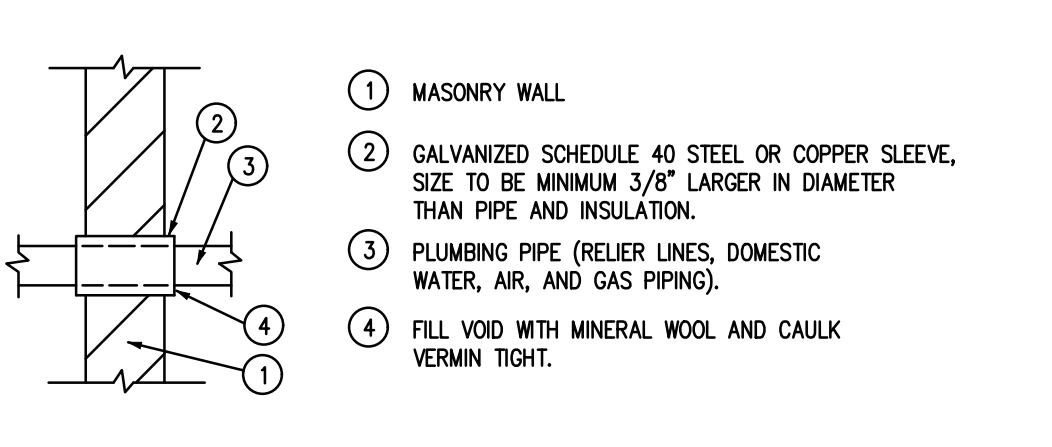
- REFER TO PLUMBING FIXTURE SCHEDULE FOR SOIL OR WASTE ROUGH-IN PIPE SIZE. MINIMUM SOIL OR WASTE DRAIN LINE SIZE (EXCEPT AS NOTED) FOR THIS FIXTURE.
- REFER TO PLUMBING FIXTURE SCHEDULE FOR SANITARY VENT ROUGH-IN PIPE SIZE. MINIMUM SANITARY VENT BRANCH SIZE (EXCEPT AS NOTED) FOR THIS FIXTURE.
- REFER TO PLUMBING FIXTURE SCHEDULE FOR FIXTURE DRAIN ROUGH-IN PIPE SIZE. MINIMUM FIXTURE DRAIN AND TRAP SIZE FOR THIS FIXTURE.
- REFER TO PLUMBING FIXTURE SCHEDULE FOR WATER PIPING ROUGH-IN PIPE SIZE. MINIMUM WATER SUPPLY BRANCH SIZE (EXCEPT AS NOTED) FOR THIS FIXTURE.
- PROVIDE AIR CHAMBER. MINIMUM ONE PIPE SIZE LARGER THAN FIXTURE ROUGH-IN OPENING AND MINIMUM 18" IN LENGTH ABOVE SUPPLY BRANCH CONNECTION.
- WALL CLEANOUTS SHALL BE PROVIDED AT ALL END OF BATTERY OR END OF BRANCH LINE FIXTURES AND WHERE REQUIRED BY PLUMBING CODE OFFICIALS TO ASSURE COMPLETE ACCESS TO ALL PORTIONS OF DRAIN.
- SANITARY VENT PIPES SHALL CONTINUE TO CEILING OR HEADER TOGETHER AT A MINIMUM 42" ABOVE FIN. FLOOR.
- TRAP REFILL LINE; SEE PLUMBING DETAILS SHEET. EXTEND AND CONNECT TO FLOOR DRAIN TRAP AS SHOWN.
- AIR GAP FITTING



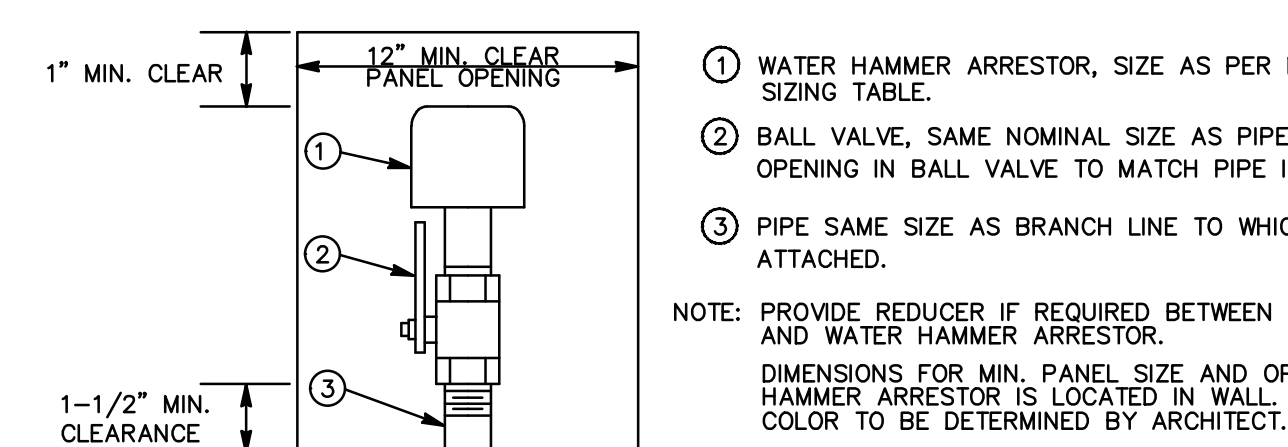
1 DOMESTIC WATER ENTRANCE
NOT TO SCALE



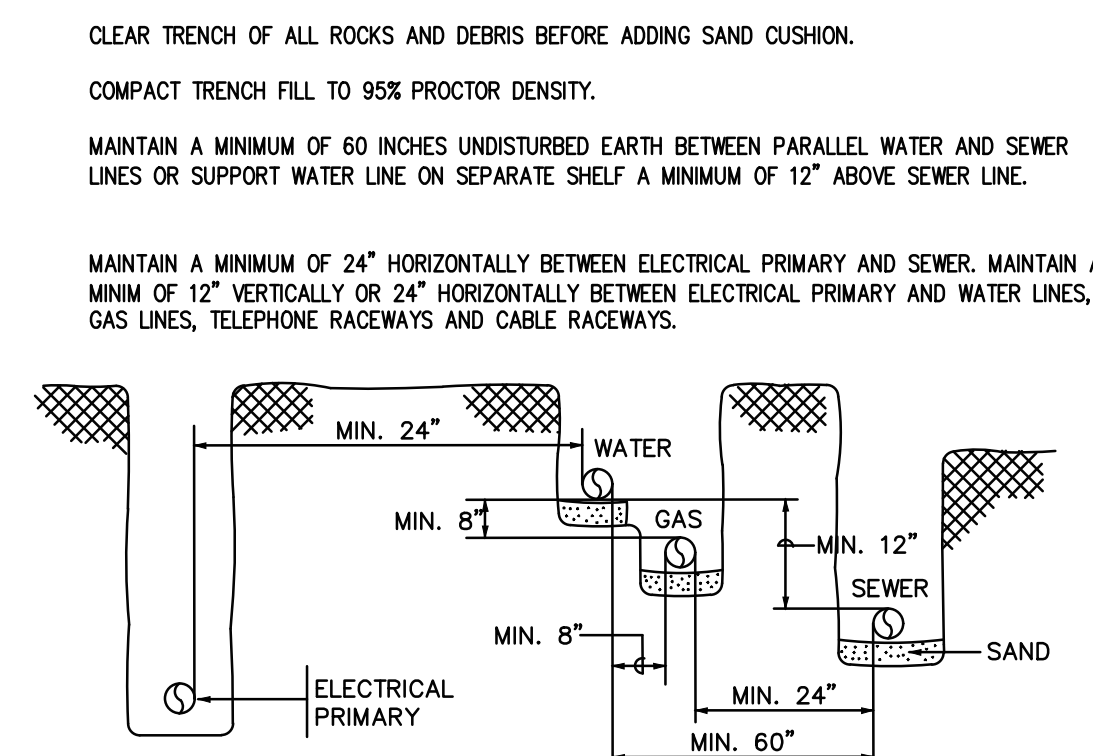
4 VENT THRU ROOF DETAIL
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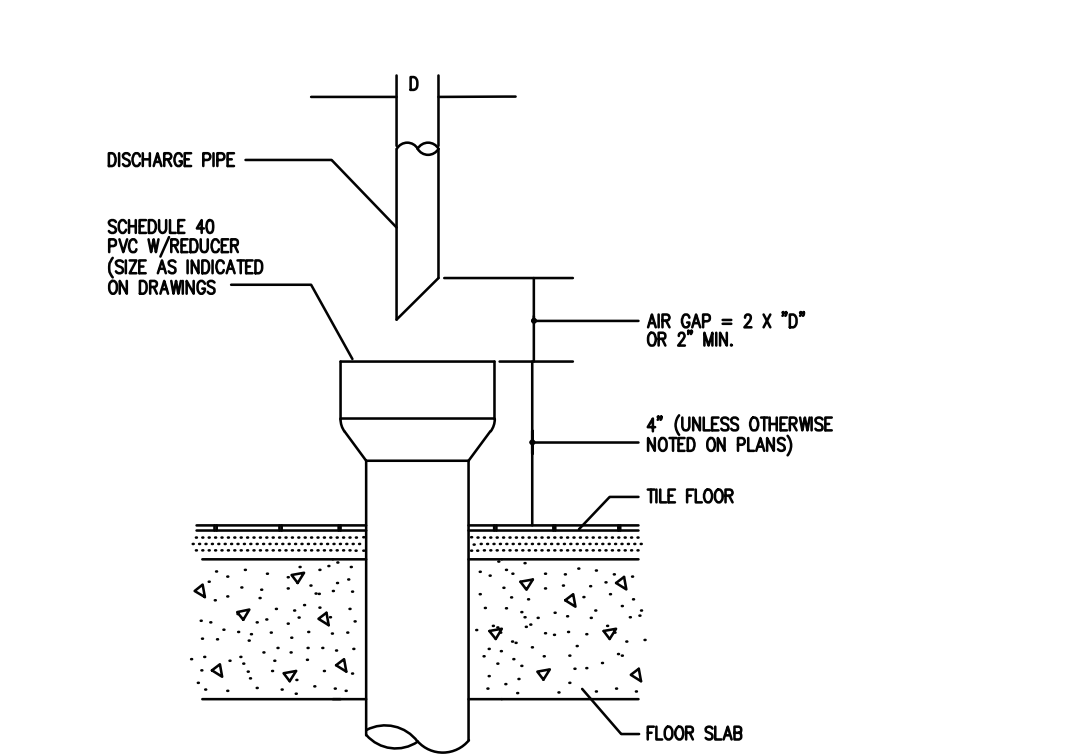
7 WALL SLEEVE DETAIL
NOT TO SCALE



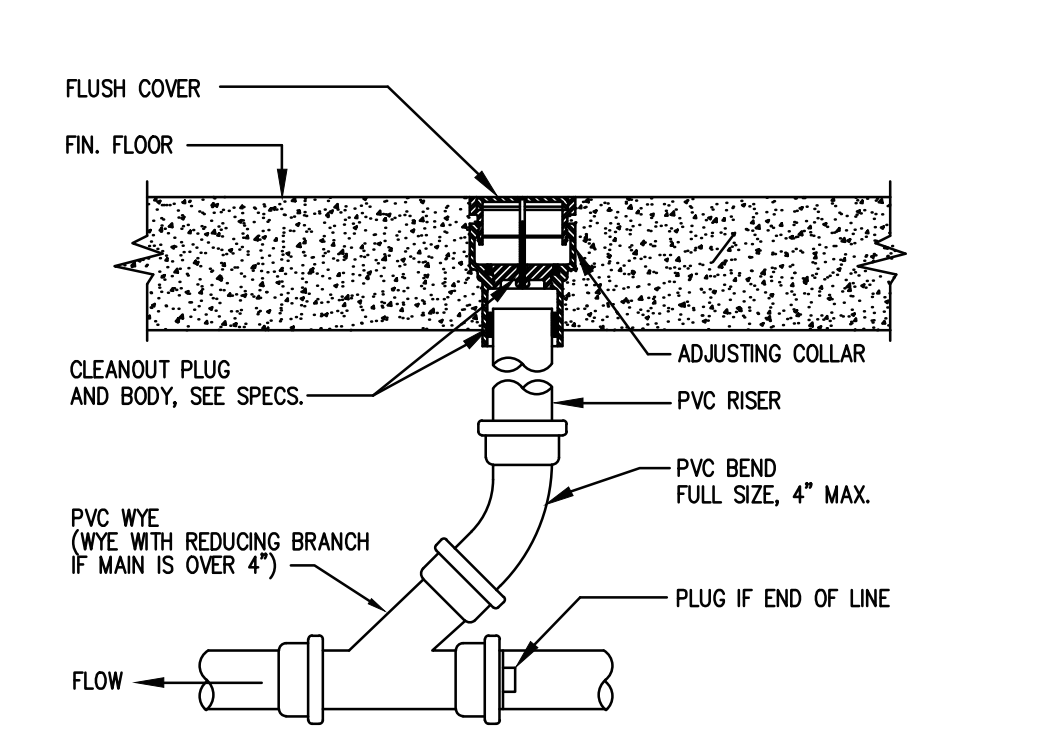
9 WATER HAMMER ARRESTOR DETAIL
NOT TO SCALE



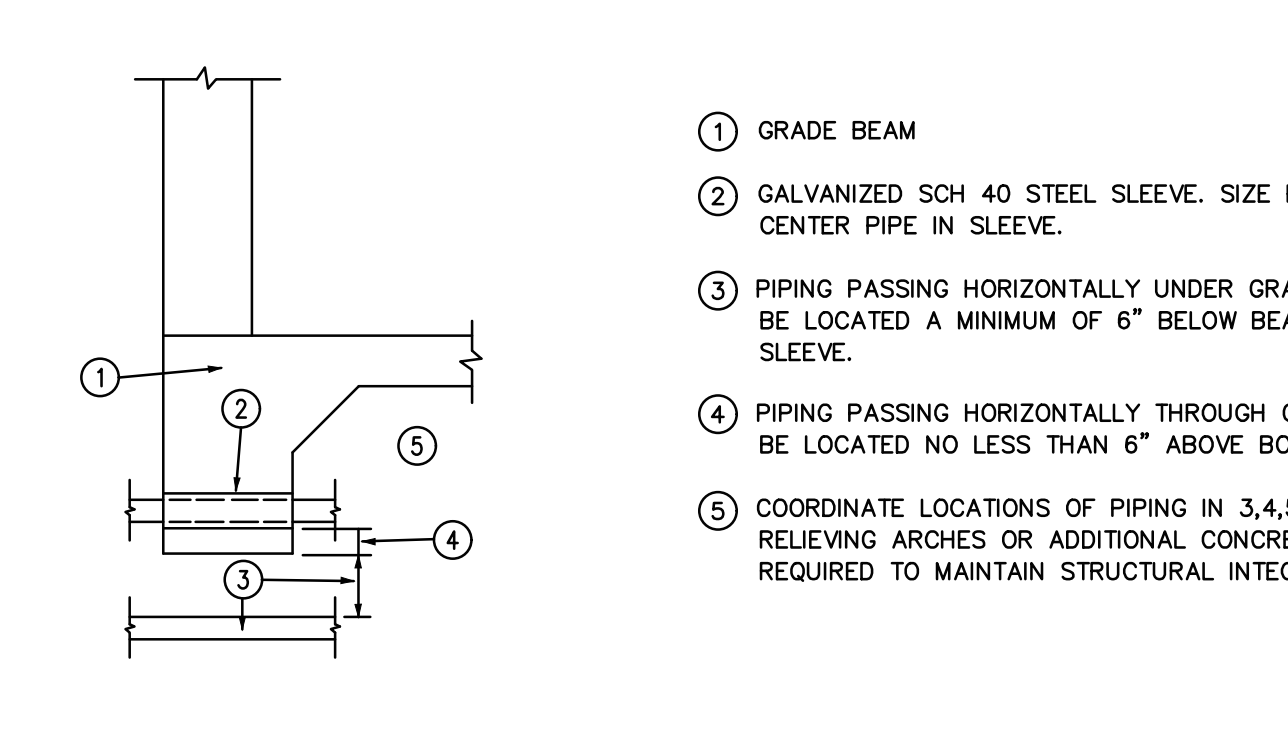
2 TRENCH DETAIL
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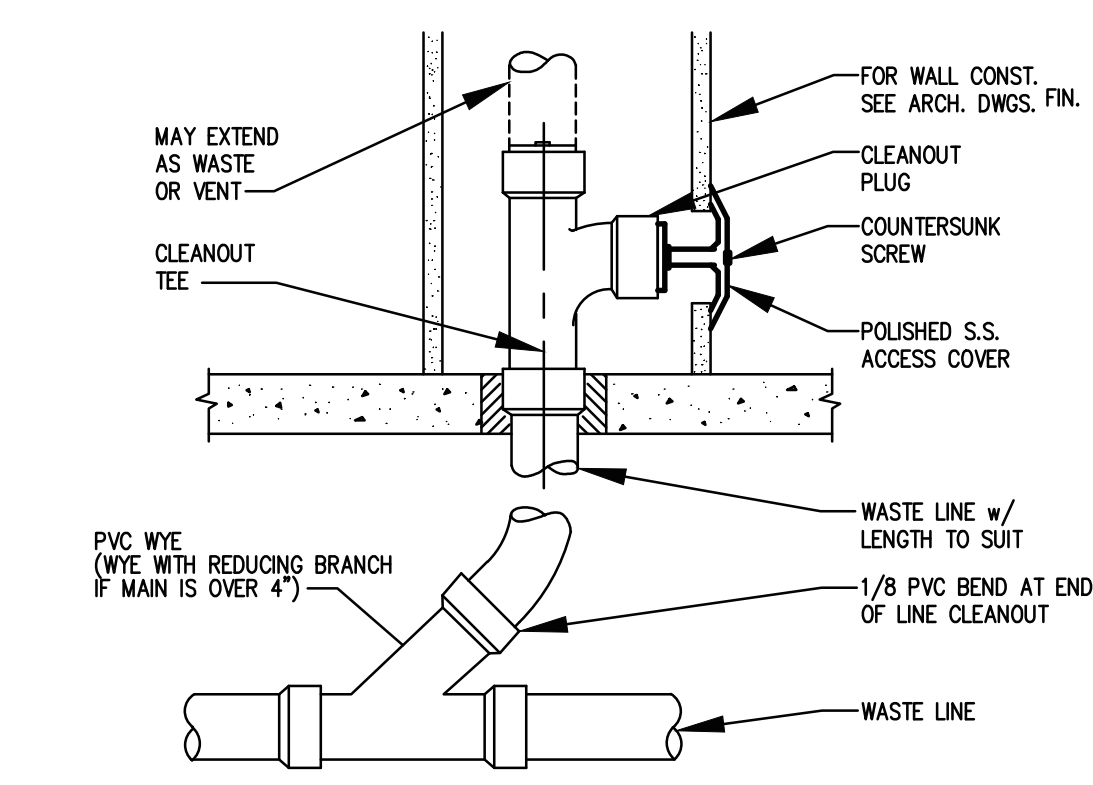
5 HUB DRAIN DETAIL
NOT TO SCALE



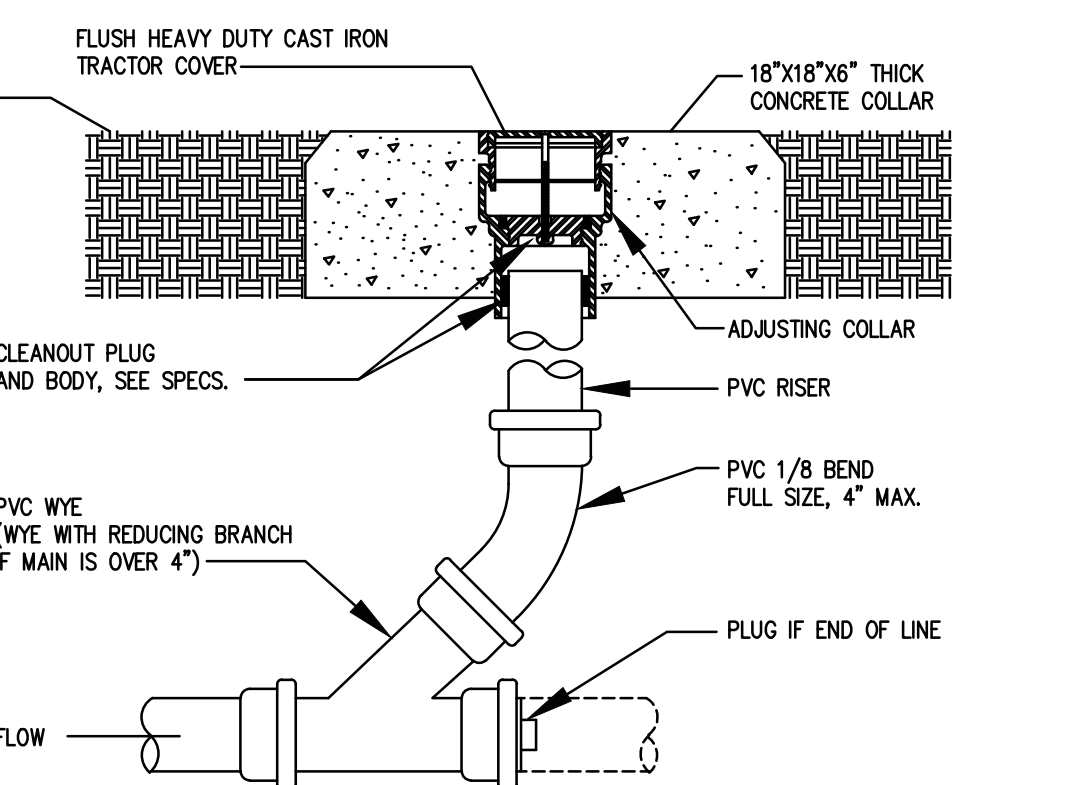
8 FLOOR CLEAN OUT DETAIL
NOT TO SCALE



10 GRADE BEAM SLEEVE DETAIL
NOT TO SCALE



3 WALL CLEAN OUT DETAIL
NOT TO SCALE



6 YARD CLEANOUT DETAIL
NOT TO SCALE