

PLOT DATE: Jul 25, 2022, 4:41pm
FILENAME: X:\2022-24 Cerrillos Senior Center IICAD\02_ARCH\1_SHEET\2009_A502.dwg

PERMIT & BID SET
07-25-2022

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CERRILLOS SENIOR CENTER
& TURQUOISE TRAIL FIRE
STATION #3
16 MAIN STREET, CERRILLOS,
NEW MEXICO 87010

Current Status:
PERMIT & BID

REVISIONS		
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Drawn by: RL/KL
Checked by: SM

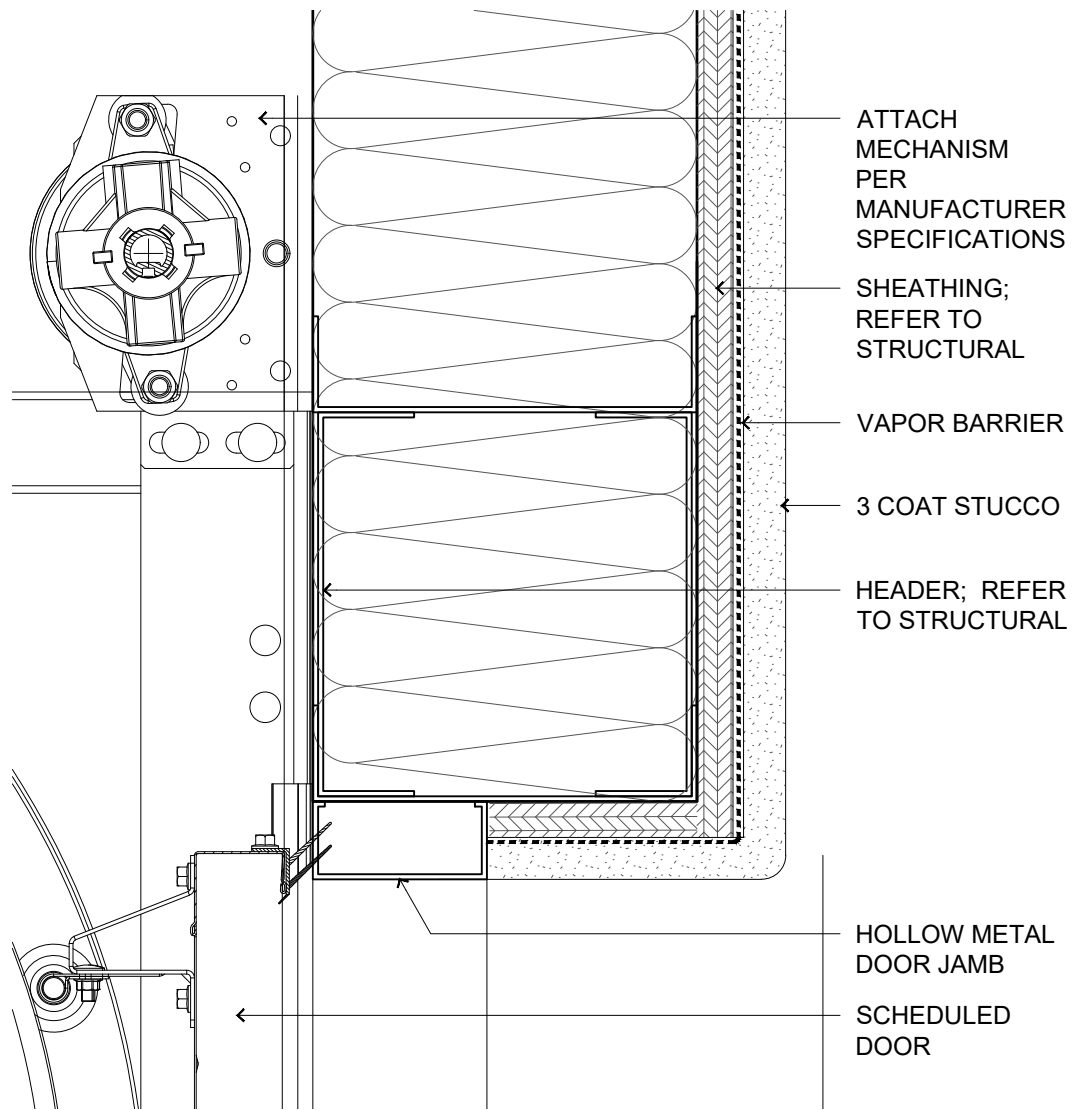
Date: 07-25-2022

Sheet Title:
DOOR DETAILS

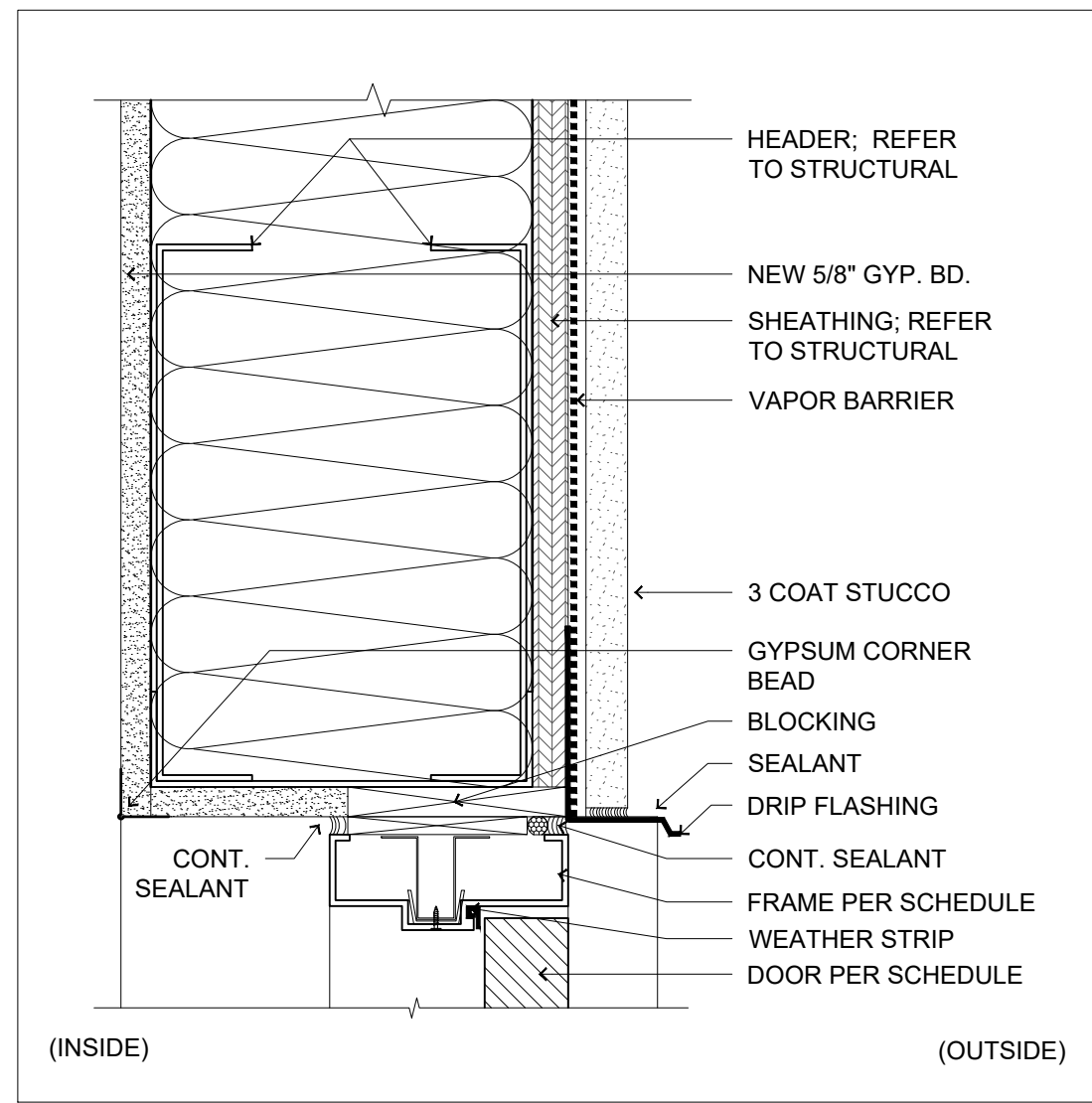
Job Number: 2022-24

Sheet No.

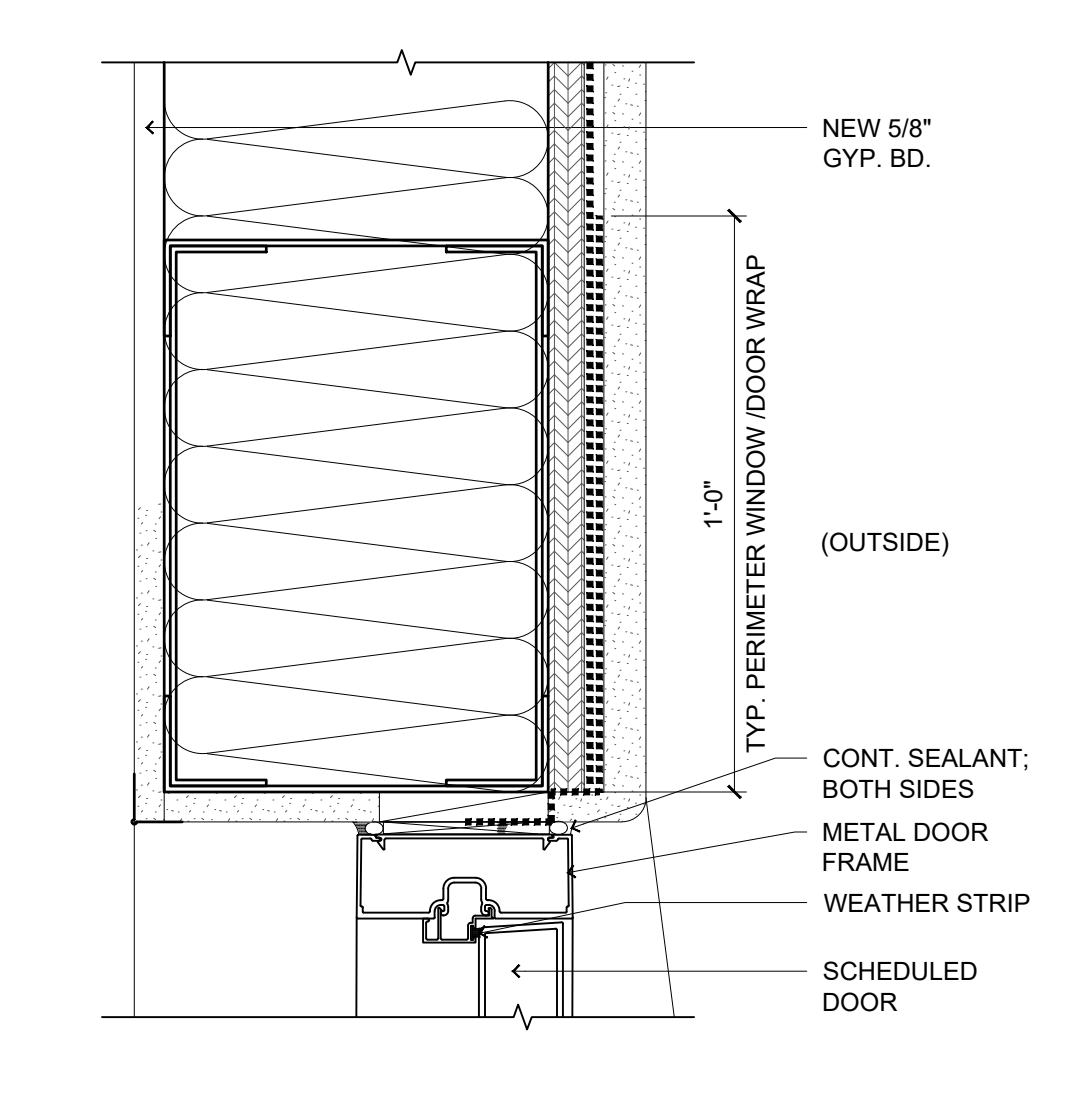
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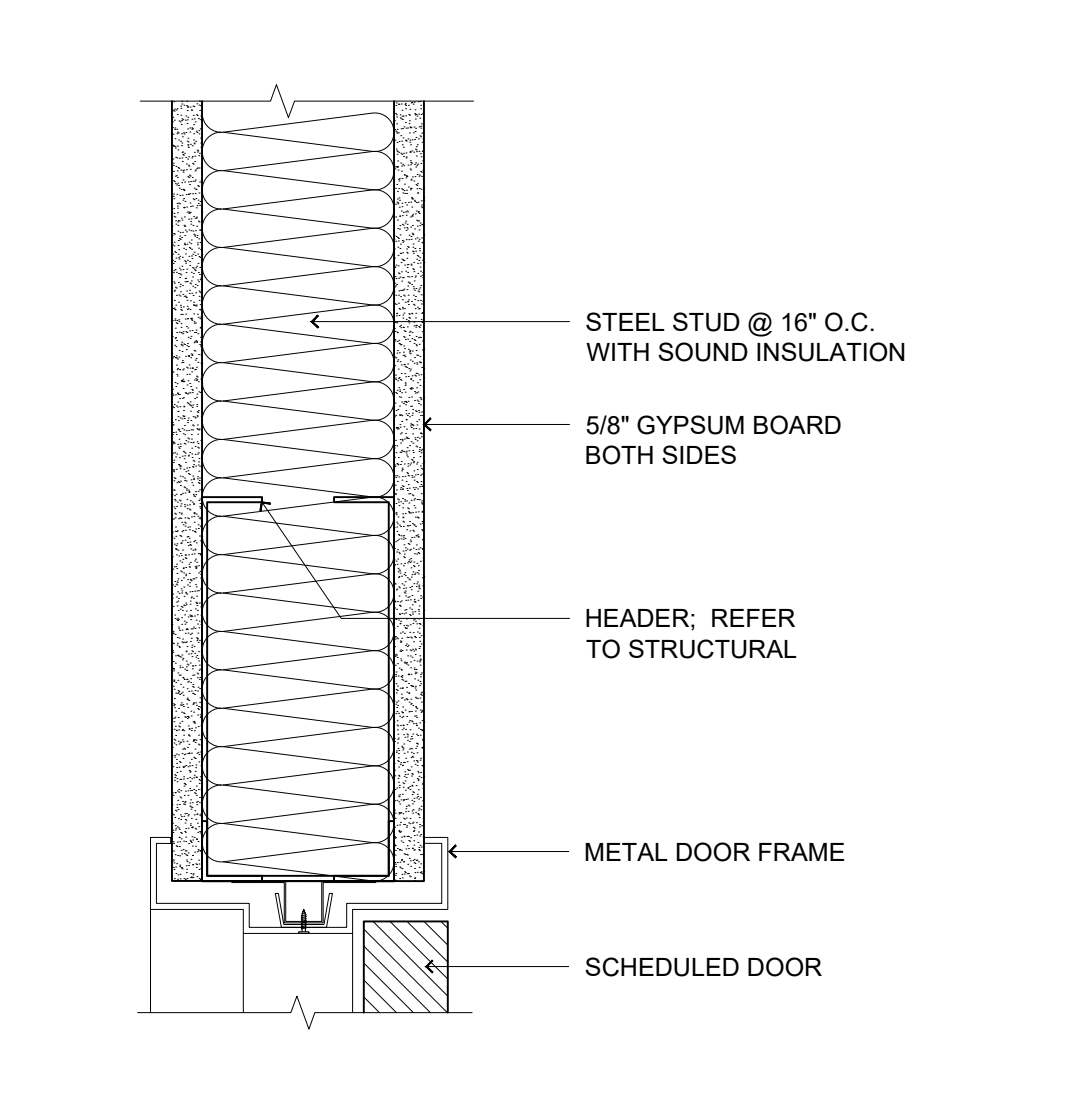
C1 HEAD DETAIL A
3" = 1'-0"



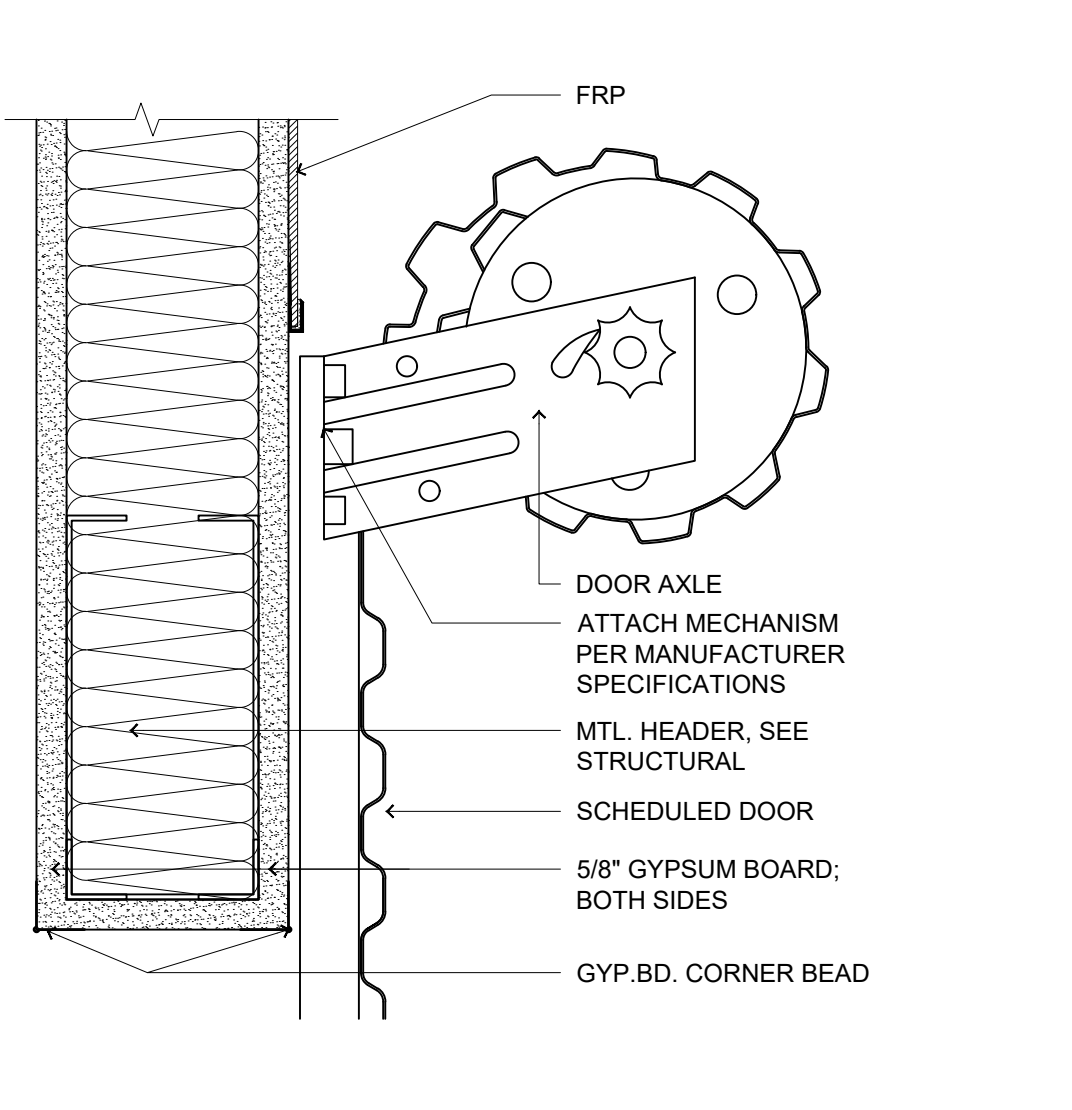
C2 HM HEAD DETAIL B
3" = 1'-0"



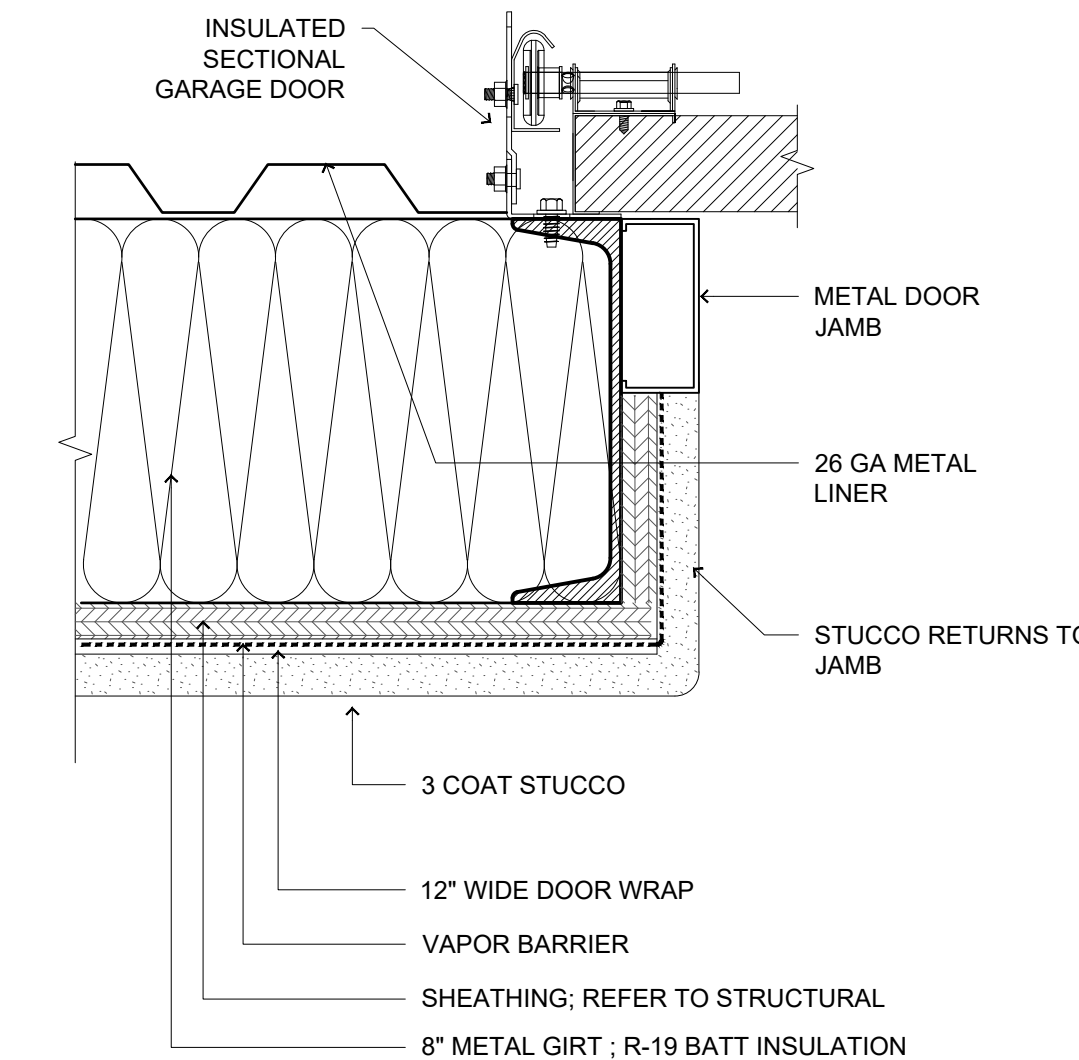
C3 HEAD DETAIL C
3" = 1'-0"



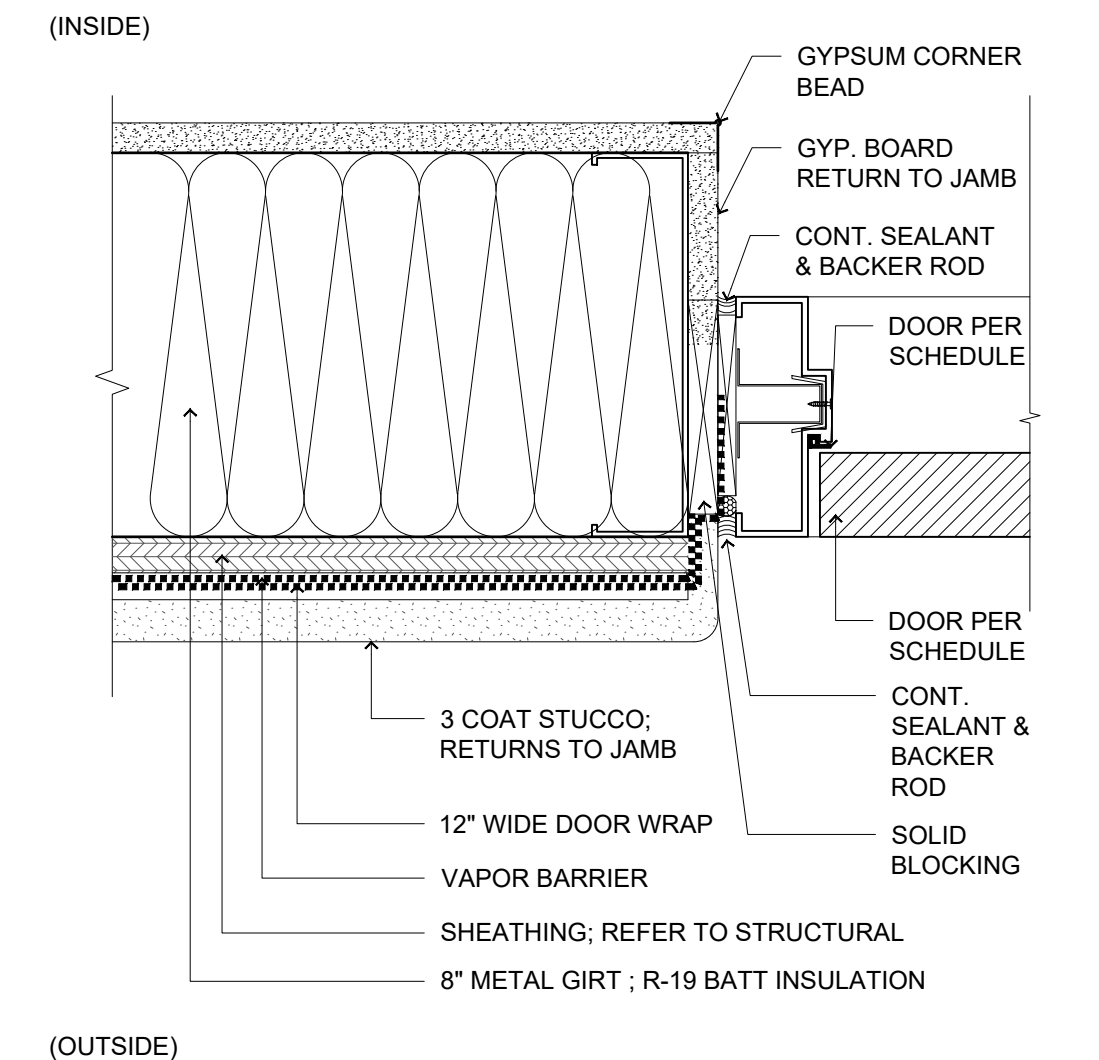
C4 HM HEAD DETAIL D
3" = 1'-0"



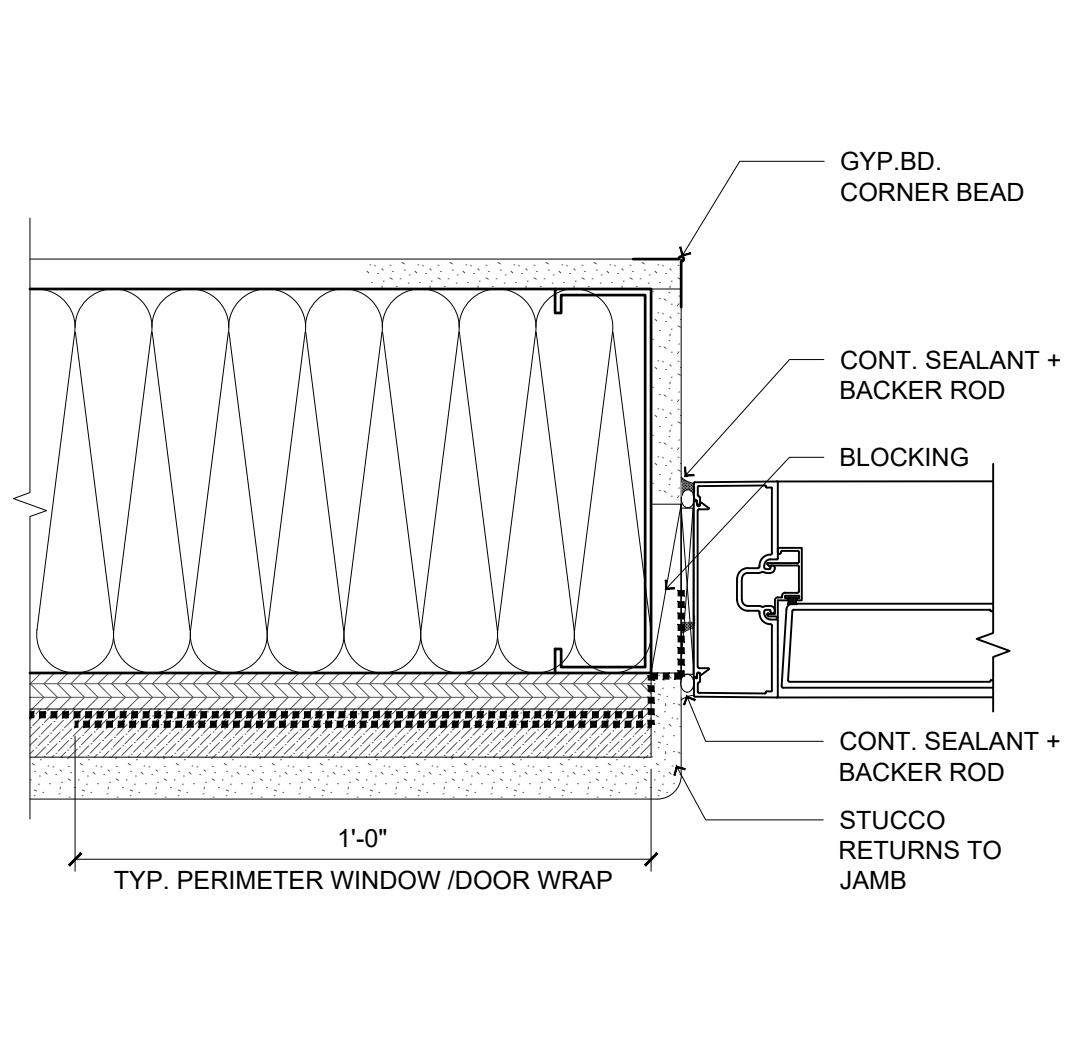
C5 HEAD DETAIL E
3" = 1'-0"



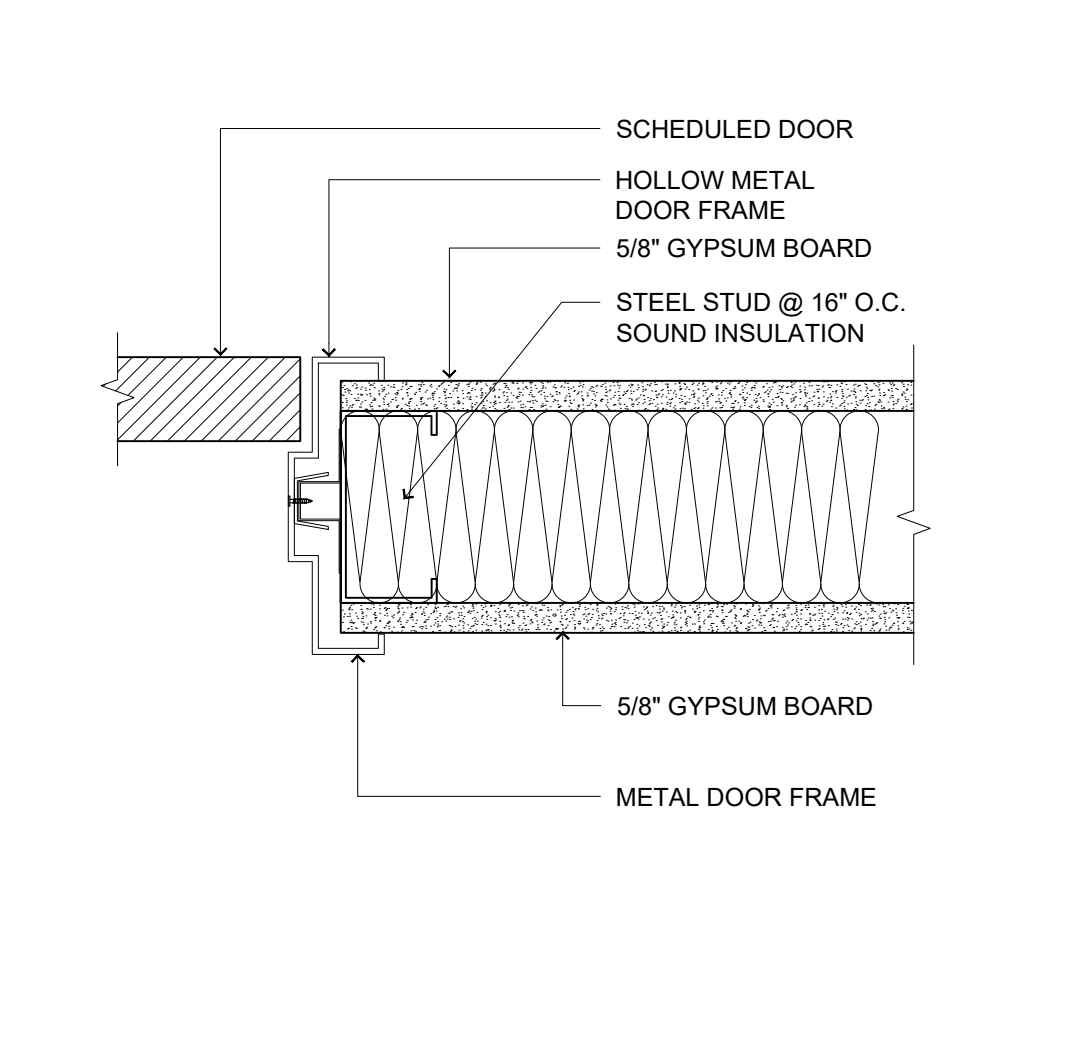
B1 JAMB DETAIL A
3" = 1'-0"



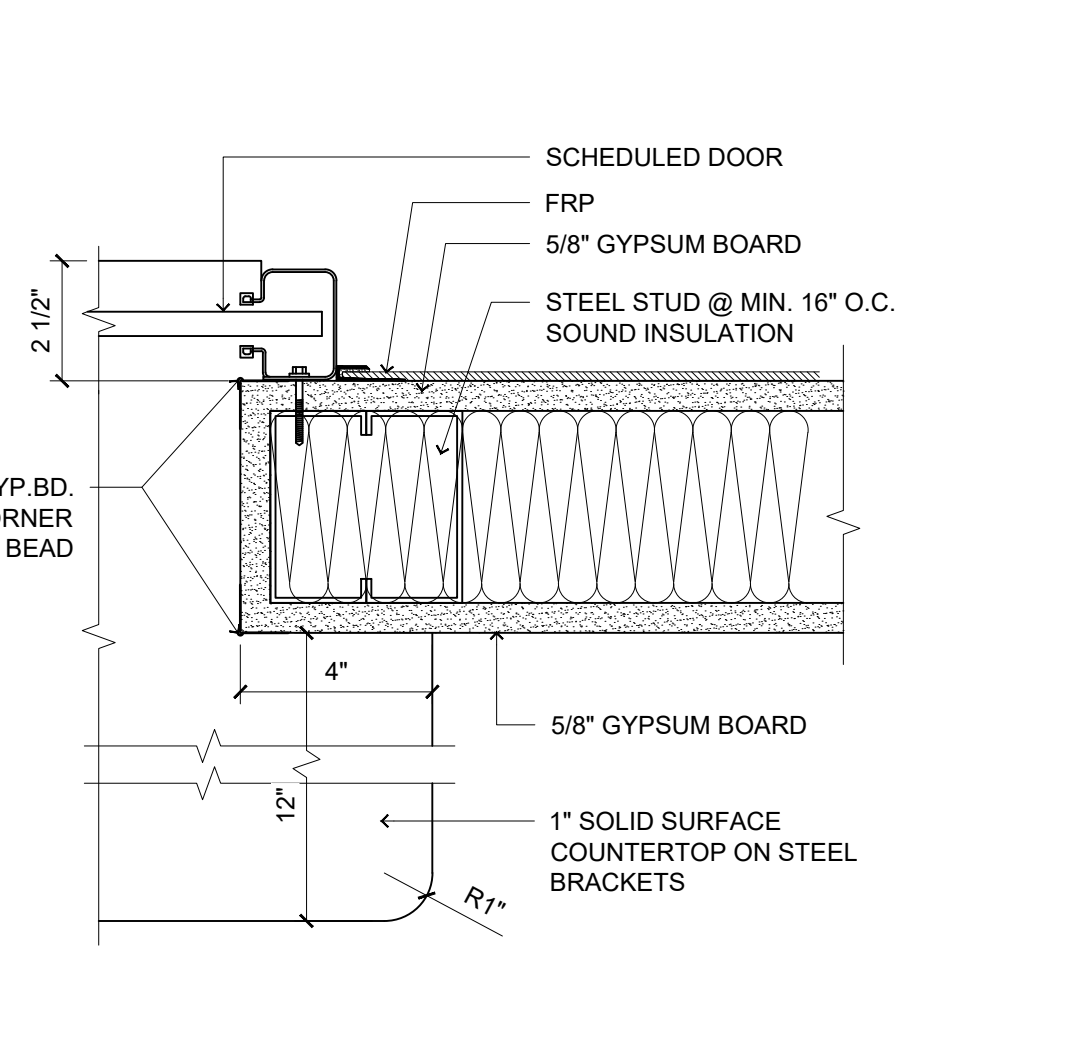
B2 HM JAMB DETAIL B
3" = 1'-0"



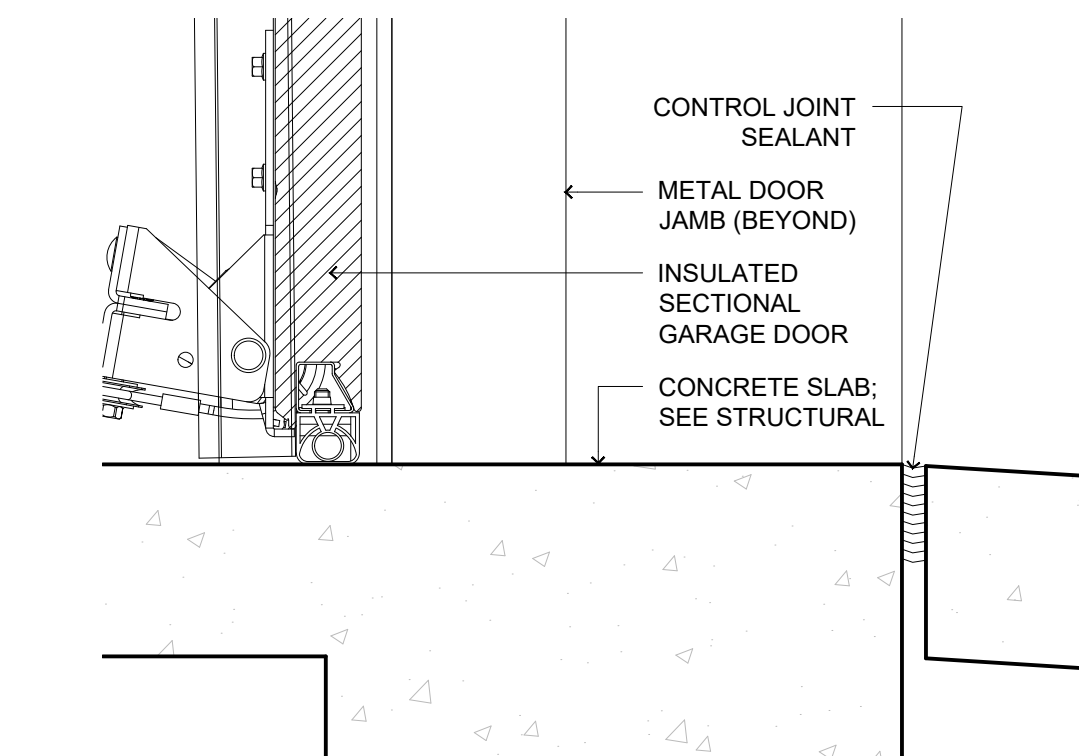
B3 HM JAMB DETAIL C
3" = 1'-0"



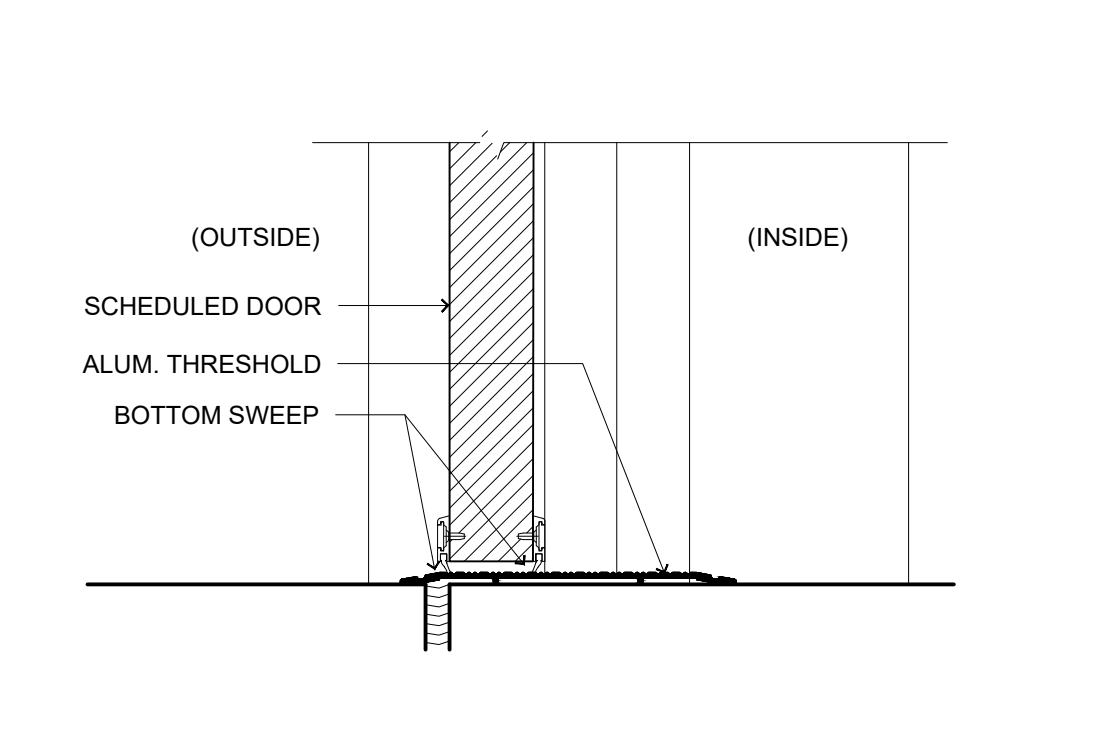
B4 HM JAMB DETAIL D
3" = 1'-0"



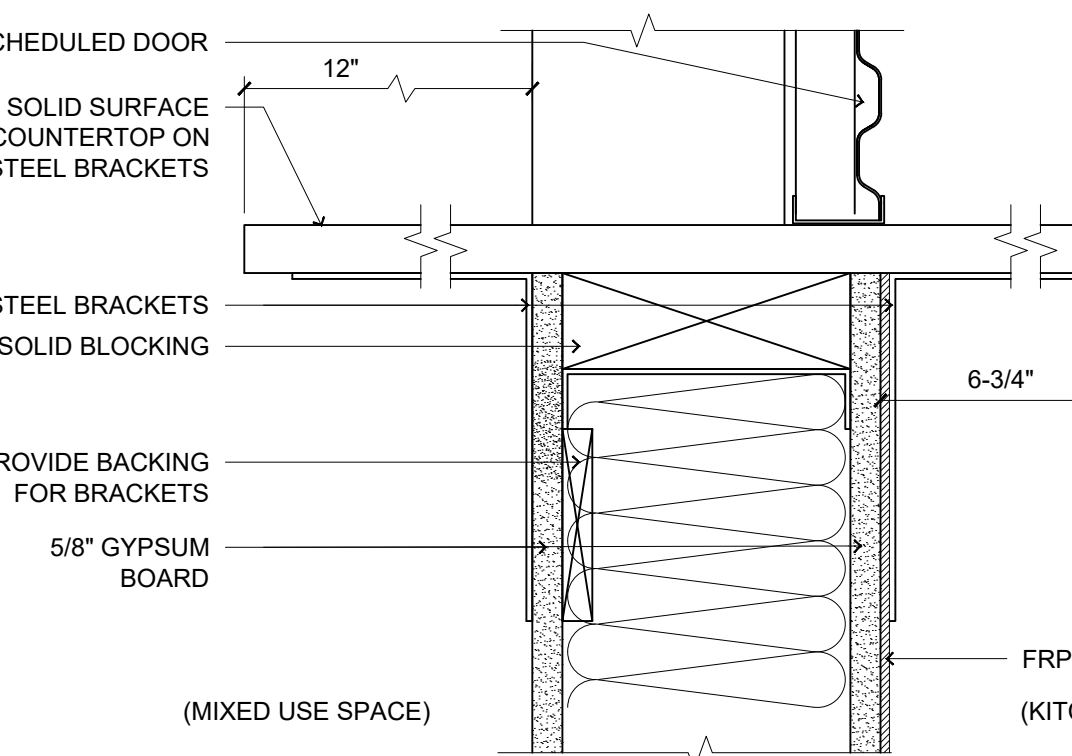
B5 JAMB DETAIL E
3" = 1'-0"



A1 SILL DETAIL A
3" = 1'-0"



A2 SILL DETAIL B
3" = 1'-0"



A5 SILL DETAIL C
3" = 1'-0"

PLOT DATE: Jul 25, 2022, 4:41pm
FILENAME: X:\2022-24\Curillas Senior Center IICAD02_ARCH_SHEET\2009_A503.dwg

DOOR HARDWARE SCHEDULE

HARDWARE SET: 01						
DOOR NUMBER:						
FS01A	FS01B					
EACH TO HAVE:						
3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE	
1	EA	ENTRANCE LOCK	ND92HD RHO	626	SCH	
1	EA	PERMANENT CORE	1C-7	626	BES	
1	EA	SURFACE CLOSER	4011	689	LCN	
1	EA	WALL STOP	WS406/407CCV	630	IVE	
1	SET	SEALS	8303AA X D.S.	AA	ZER	
1	EA	DOOR BOTTOM	111AA X D.W.	AA	ZER	
1	EA	THRESHOLD	548A X D.W.	A	ZER	
HARDWARE SET: 02						
DOOR NUMBER:						
FS01C	FS01D					
FS01E	FS01F					
FS01G	FS01H					
SC06C						
EACH TO HAVE:						
ALL HARDWARE BY DOOR MANUFACTURER						
HARDWARE SET: 03						
DOOR NUMBER:						
FS03						
EACH TO HAVE:						
3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE	
1	EA	PASSAGE SET	ND10S RHO	626	SCH	
1	EA	WALL STOP	WS406/407CVX	630	IVE	
3	EA	SILENCER	SR64	GRY	IVE	
HARDWARE SET: 04						
DOOR NUMBER:						
FS04	SC05					
EACH TO HAVE:						
3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE	
1	EA	ENTRANCE LOCK	ND92HD RHO	626	SCH	
1	EA	PERMANENT CORE	1C-7	626	BES	
1	EA	WALL STOP	WS406/407CCV	630	IVE	
3	EA	SILENCER	SR64	GRY	IVE	
HARDWARE SET: 05						
DOOR NUMBER:						
FS06						
EACH TO HAVE:						
3	EA	HINGE	5BB1 4.5 X 4.5 NRP	652	IVE	
1	EA	STOREROOM LOCK	ND96HD RHO	626	SCH	
1	EA	PERMANENT CORE	1C-7	626	BES	
1	EA	SURFACE CLOSER	4111 CUSH	689	LCN	
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE	
1	SET	SEALS	188S X D.S.	BLK	ZER	
HARDWARE SET: 06						
DOOR NUMBER:						
FS07	SC08					
SC09						
EACH TO HAVE:						
3	EA	HINGE	5BB1HW 4.5 X 4.5	652	IVE	
1	EA	PUSH PLATE	8200 4" X 16"	630	IVE	
1	EA	PULL PLATE	8302 6" 4" X 16"	630	IVE	
1	EA	SURFACE CLOSER	4011	689	LCN	
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE	
1	EA	WALL STOP	WS406/407CVX	630	IVE	
3	EA	SILENCER	SR64	GRY	IVE	
HARDWARE SET: 07						
DOOR NUMBER:						
FS08	SC13					
EACH TO HAVE:						
3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE	
1	EA	STOREROOM LOCK	ND96HD RHO	626	SCH	
1	EA	PERMANENT CORE	1C-7	626	BES	
1	EA	WALL STOP	WS406/407CVX	630	IVE	
3	EA	SILENCER	SR64	GRY	IVE	
HARDWARE SET: 08						
DOOR NUMBER:						
SC01A						
EACH TO HAVE:						
1	EA	CONT. HINGE	112XY	628	IVE	
1	EA	CONT. HINGE	112XY EPT	628	IVE	
1	EA	POWER TRANSFER	EPT2	~	VON	
1	EA	REMOVABLE MULLION	KR4954-STAB-ANGLE PLATE	689	VON	
1	EA	PANIC HARDWARE	99-EO	626	VON	
1	EA	ELEC PANIC HARDWARE	LX-99-NL-OP-110MD	~	VON	

2	EA	PERMANENT CORE	1C-7	626	BES	
1	EA	SFIC MORTISE CYL	80-132	626	SCH	
1	EA	SFIC RIM CYLINDER	80-159	626	SCH	
2	EA	OFFSET PULL	8190EZHD-10"	630	IVE	
2	EA	OH STOP	100S	630	GLY	
1	EA	SURFACE CLOSER	4021	689	LCN	
1	EA	SURF. AUTO OPERATOR	4642 WMS 120 VAC	~	689	LCN
1	EA	MOUNTING PLATE	4020-18G	689	LCN	
1	EA	ACTUATOR KIT	8310-3853WB	~	630	LCN
			@ BOLLARD			
1	EA	ACTUATOR KIT	8310-3853WS	~	630	LCN
1	EA	RECEIVER	8310-865	~	LCN	
1	EA	BOLLARD	8310-866		LCN	
1	EA	MULLION SEAL	8780N X D.H.	BK	ZER	
2	EA	DOOR SWEEP	39A X D.W.	A	ZER	
1	EA	THRESHOLD	8655A X D.W.	A	ZER	
1	SET	SEALS	BY ALUM DOOR/FRAME MFG			
1	EA	WIRING DIAGRAM	POINT TO POINT / RISER	~		
NOTE: WALL PLATE SWITCHES SHALL BE WIRED IN SERIES WITH THE "LX" SWITCH IN THE EXIT DEVICE. SUCH THAT WHEN THE EXIT DEVICE IS "DOGGED" (UNLOCKED) THE WALL PLATE SWITCHES ARE ACTIVE AND THE OPERATOR WILL OPEN THE DOOR. WHEN THE EXIT DEVICE IN NOT "DOGGED" (LOCKED) THE WALL PLATE SWITCHES ARE NOT ACTIVE AND THE OPERATOR WILL NOT OPEN THE DOOR.						
HARDWARE SET: 09						
DOOR NUMBER:						
SC01B	SC15					
EACH TO HAVE:						
3	EA	HINGE	5BB1HW 4.5 X 4.5 NRP	652	IVE	
1	EA	PANIC HARDWARE	99-L-06	626	VON	
1	EA	PERMANENT CORE	1C-7	626	BES	
1	EA	SFIC RIM CYLINDER	80-159	626	SCH	
1	EA	SURFACE CLOSER	4111 EDA	689	LCN	
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE	
1	EA	WALL STOP	WS406/407CVX	630	IVE	
1	EA	RAIN DRIP	142A X D.W. +4"	AA	ZER	
1	SET	SEALS	8303AA X D.S.	AA	ZER	
1	EA	DOOR SWEEP	39A X D.W.	A	ZER	
1	EA	THRESHOLD	8655A X D.W.	A	ZER	
HARDWARE SET: 10						
DOOR NUMBER:						
SC04						
EACH TO HAVE:						
1	EA	CONT. HINGE	112XY	628	IVE	
1	EA	CLASSROOM LOCK	ND94HD RHO	626	SCH	
1	EA	PERMANENT CORE	1C-7	626	BES	
1	EA	WALL STOP	WS406/407CVX	630	IVE	
1	SET	SEALS	BY ALUM DOOR/FRAME MFG			
HARDWARE SET: 11						
DOOR NUMBER:						
SC06B						
EACH TO HAVE:						
3	EA	HINGE	5BB1 4.5 X 4.5 NRP	652	IVE	
1	EA	ENTRANCE LOCK	ND92HD RHO	626	SCH	
1	EA	PERMANENT CORE	1C-7	626	BES	
1	EA	SURFACE CLOSER	4111 SCUSH	689	LCN	
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE	
3	EA	SILENCER	SR64	GRY	IVE	
HARDWARE SET: 12						
DOOR NUMBER:						
SC10	SC11					
SC12						
EACH TO HAVE:						
3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE	
1	EA	STOREROOM LOCK	ND96HD RHO	626	SCH	
1	EA	PERMANENT CORE	1C-7	626	BES	
1	EA	SURFACE CLOSER	4011	689	LCN	
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE	
1	EA	WALL STOP	WS406/407CVX	630	IVE	
1	SET	SEALS	188S X D.S.	BLK	ZER	
HARDWARE SET: 13						
DOOR NUMBER:						
SC14						
EACH TO HAVE:						
3	EA	HINGE	5BB1HW 5 X 4.5	652	IVE	
1	EA	STOREROOM LOCK	ND96HD RHO	626	SCH	
1	EA	PERMANENT CORE	1C-7	626	BES	

1	EA	WALL STOP	WS406/407CVX	630	IVE	
3	EA	SILENCER	SR64	GRY	IVE	
HARDWARE SET: 14						
DOOR NUMBER:						
SC16						
EACH TO HAVE:						
3	EA	HINGE	5BB1HW 5 X 4.5 NRP	652	IVE	
1	EA	ENTRANCE LOCK	ND92HD RHO	626	SCH	
1	EA	PERMANENT CORE	1C-7	626	BES	
1	EA	LOCK GUARD	LG13	630	IVE	
1	EA	SURFACE CLOSER	4111 SCUSH	689	LCN	
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE	
1	EA	RAIN DRIP	142A X D.W. +4"	AA	ZER	
1	SET	SEALS	8303AA X D.S.	AA	ZER	
1	EA	DOOR SWEEP	39A X D.W.	A	ZER	
1	EA	THRESHOLD	8655A X D.W.	A	ZER	

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& TURQUOISE TRAIL FIRE
STATION #3
16 MAIN STREET, CERRILLOS,
NEW MEXICO 87010

Current Status:
PERMIT & BID

REVISIONS

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Drawn by: RL/KL
Checked by: SM

Date: 07-25-2022

Sheet Title:
DOOR
HARDWARE
SCHEDULE

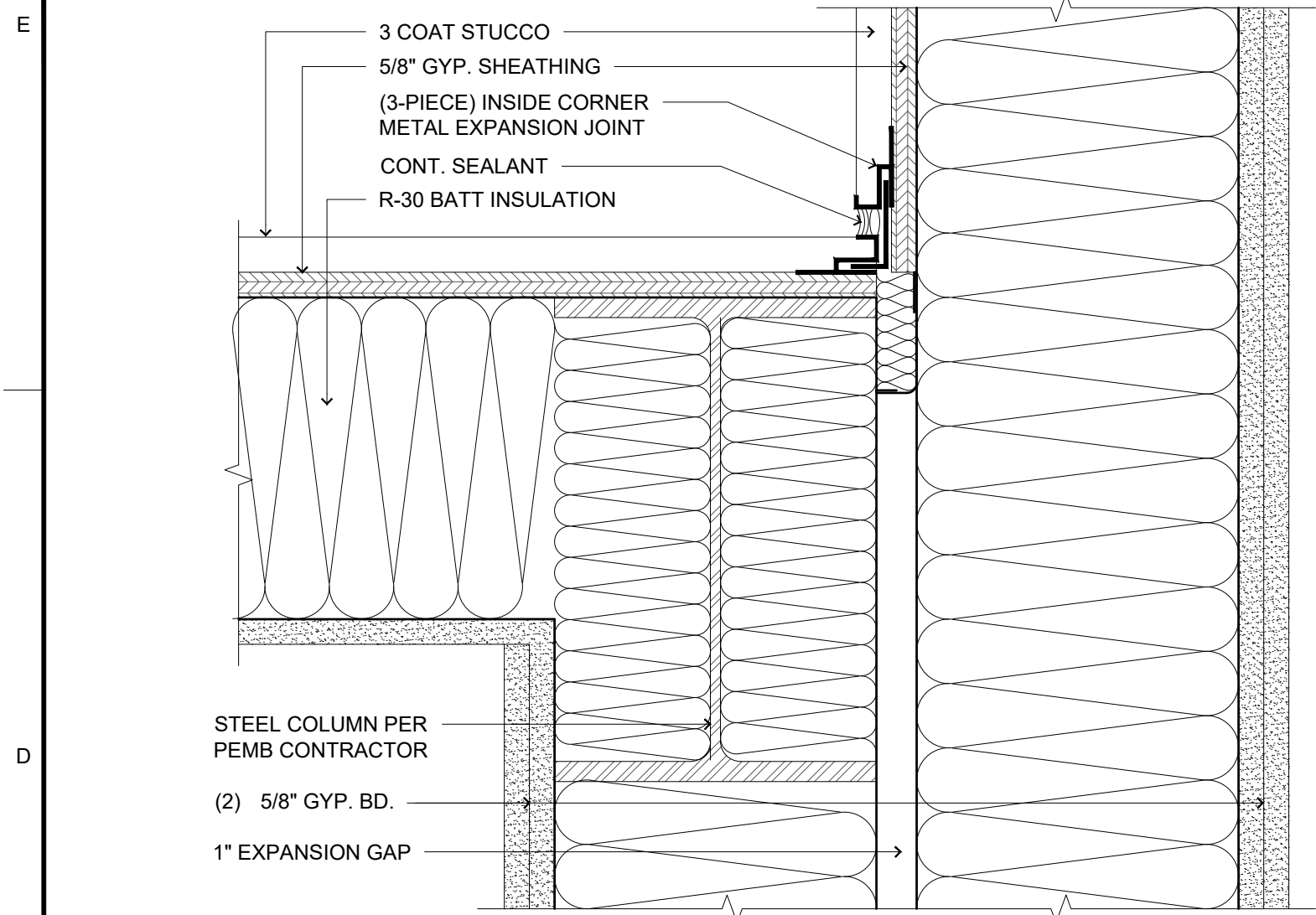
Job Number: 2022-24

Sheet No.

PERMIT & BID SET
07-25-2022

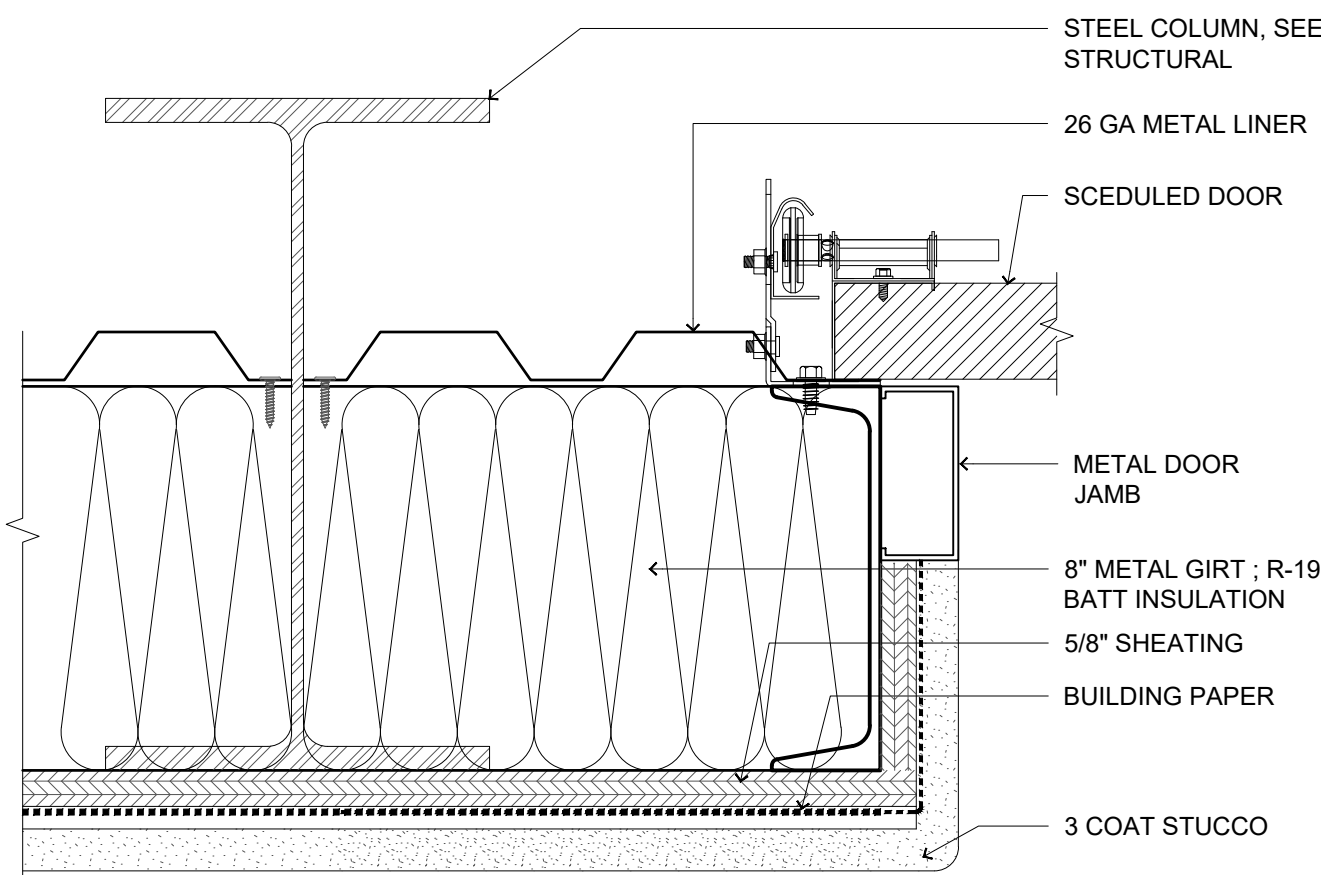
A503

PLOT DATE: Jul 25, 2022, 4:41pm
FILENAME: X:\2022-24 Cerrillos Senior Center IICAD02_ARCH_SHEET\2009_A601.dwg



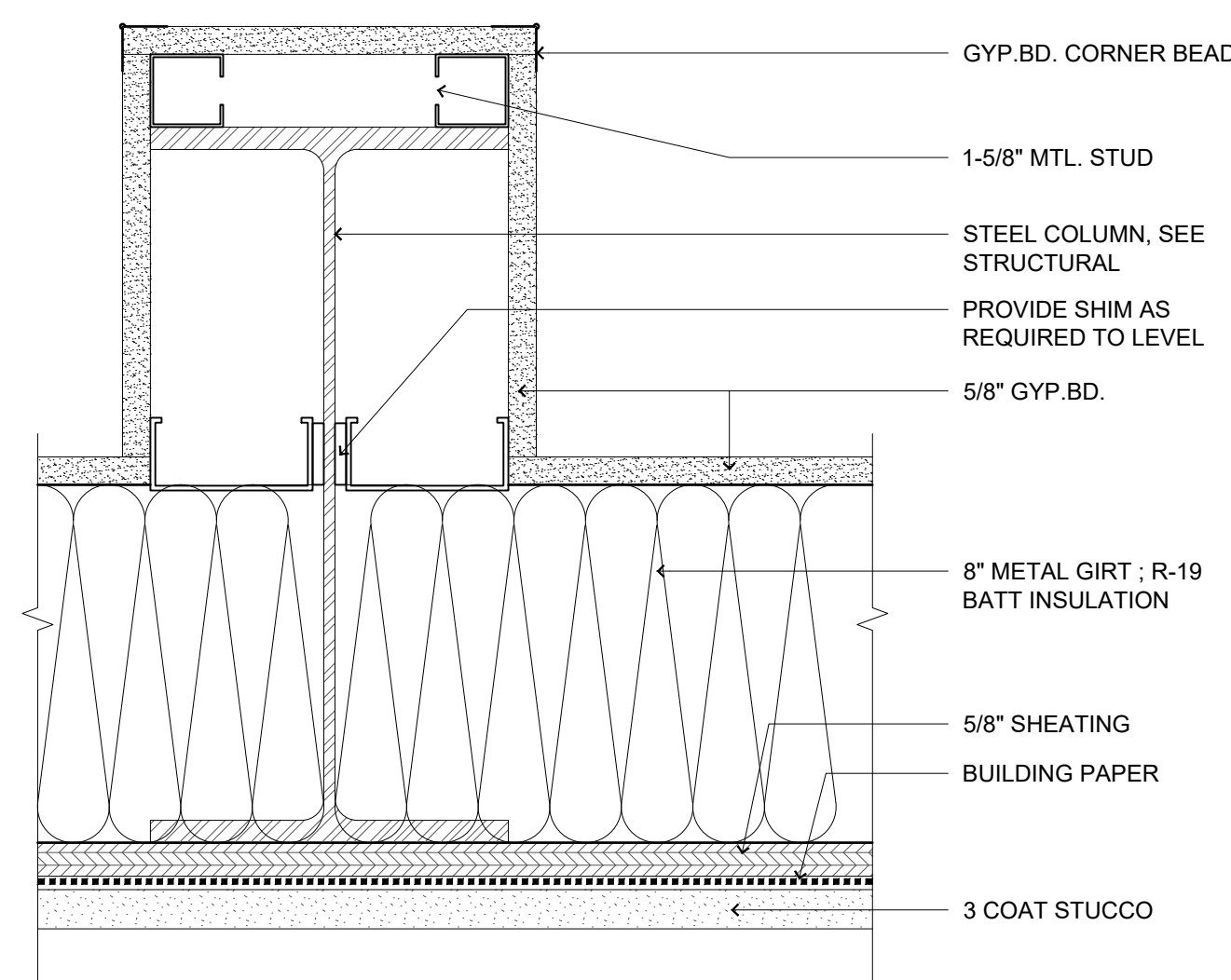
D3 EXPANSION JOINT DETAIL

3" = 1'-0"



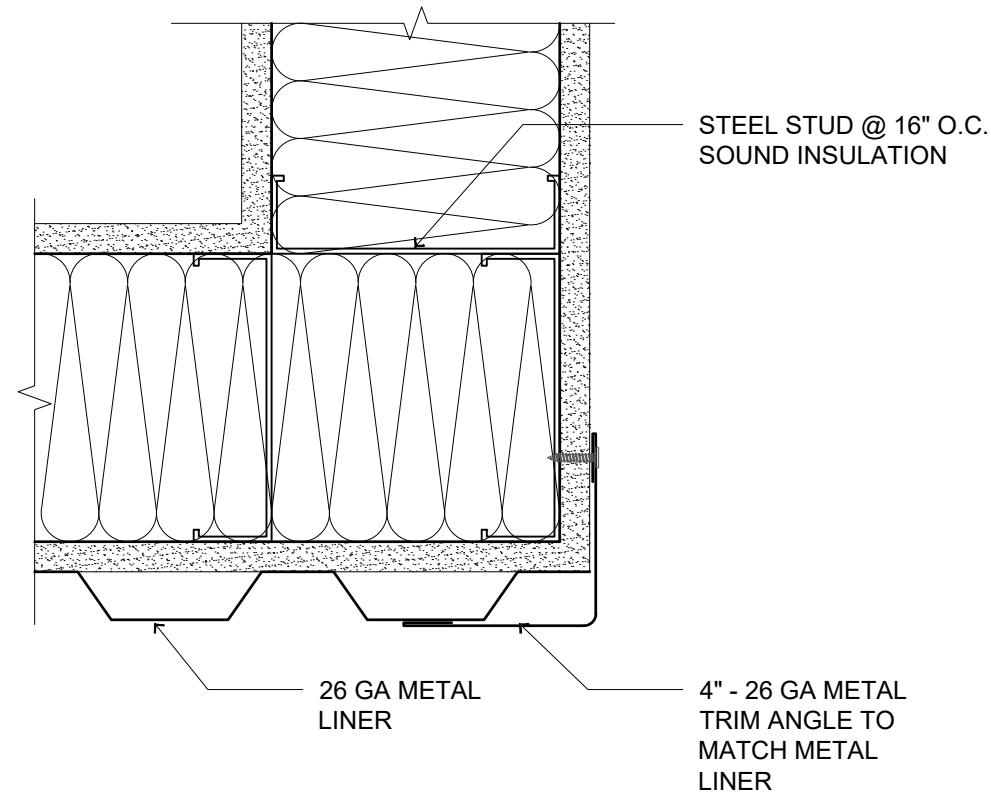
C1 WALL DETAIL

3" = 1'-0"



A1 STEEL COLUMN COVER DETAIL

3" = 1'-0"



A3 CORNER WALL DETAIL

3" = 1'-0"

PERMIT & BID SET

07-25-2022

ROOM FINISH SCHEDULE

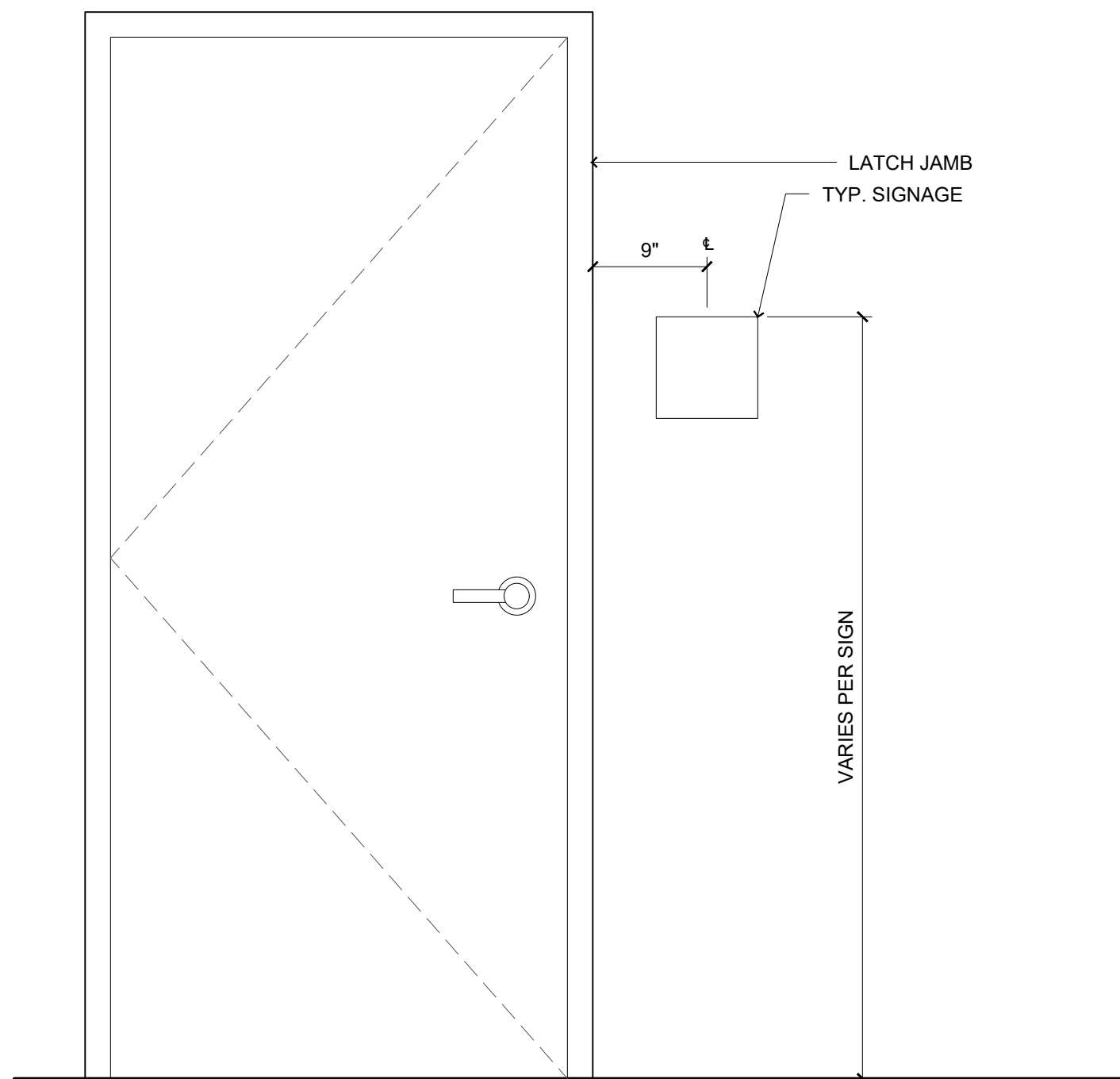
NUMB	ROOM	FLOOR	BASE	WALL	CEILING
FS01	APPARATUS	F1	-	W1	C1
FS02	CORRIDOR	F1	B1	W2	C3
FS03	MEETING ROOM	F1	B1	W2	C3
FS04	OFFICE	F1	B1	W2	C3
FS05	BREAK	F1	B1	W2	C3
FS06	IT	F3	B1	W2	C3
FS07	RESTROOM	F2	B2	W3-W4	C4
FS08	STORAGE	F1	B1	W2	C4
SC01	SOUTH PORTAL	F6	-	W5	C1
SC02	MAIN READING / DINING AND MIXED SPACE	F4	B1	W2	C2
SC03	RECEPTION	F4	-	-	C2
SC04	READING ROOM	F4	B1	W2	C3
SC05	OFFICE	F4	B1	W2	C3
SC06	KITCHEN	F3	B1	W6-W7	C4
SC07	LOADING / PANTRY	F3	B1	W6-W7	C4
SC08	WOMENS	F2	B2	W3-W4	C4
SC09	MENS	F2	B2	W3-W4	C4
SC10	IT / ELEC.	F3	B1	W2	C3
SC11	JAN.	F3	B1	W6	C3
SC12	MECH.	F1	B1	W3	C4
SC13	STORE	F1	B1	W2	C4
SC14	ART ROOM / STORAGE	F3	B1	W2	C3
SC15	ARTS AND CRAFTS MIXED USE SPACE	F4	B1	W2	C2
SC16	NORTH PORTAL	F7	-	W5	C1

ROOM FINISH LEGEND

FLOOR	
F1	CONCRETE SEAL
F2	12" x 12" CERAMIC TILES
F3	POLISHED SEALED CONCRETE
F4	MARMOLEUM TILE
F6	INTEGRALLY COLORED SEALED CONCRETE
F7	CARPET TILE
BASE	
B1	6" HIGH RESILIENT BASE
B2	6" HIGH CERAMIC TILE TO MATCH WAINSCOT (W4)
WALL	
W1	8" HIGH METAL LINER
W2	PAINT - COLOR 1
W3	PAINT - COLOR 2 (MOISTURE RESISTANT)
W4	5' HIGH WAINSCOT (6"x12" CERAMIC TILE CERAMIC TILES WITH SCHLUTER TRIM)
W5	SEE EXTERIOR ELEVATIONS
W6	FRP
W7	STAINLESS STEEL
CEILING	
C1	OPEN CEILING
C2	OPEN GRID SYSTEM
C3	24"x24" ACOUSTIC CEILING TILES
C4	24"x24" MOISTURE RESISTANT CEILING TILES
C5	5/8" GYPSUM BOARD

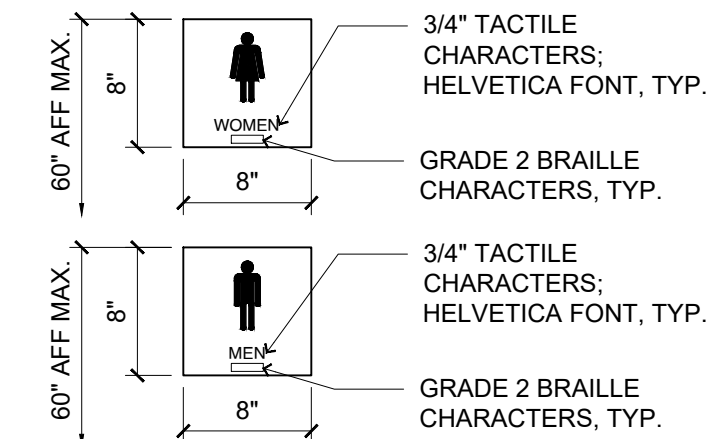
FINISH GENERAL NOTES:

1. ALL INTERIOR PRIMER & PAINT SHALL BE ZERO V.O.C.

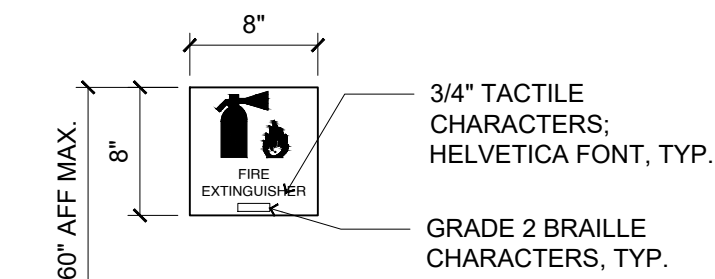


TYP. SIGN LOCATION / MOUNTING DIAGRAM

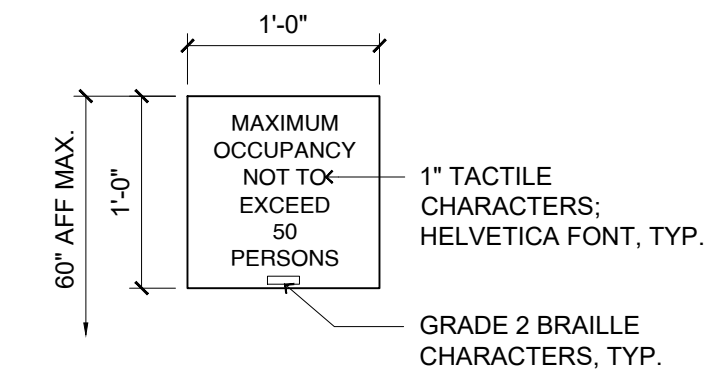
NOTE: ALL INTERIOR SIGNAGE MUST COMPLY WITH THE STANDARDS FOR ACCESSIBLE DESIGN (SAD), SECTION 703.



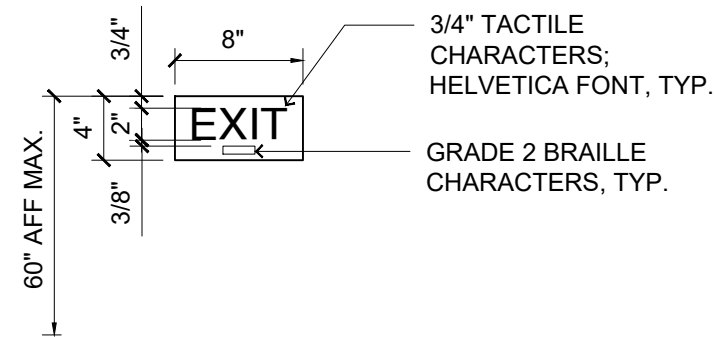
RESTROOM SIGNAGE



FIRE EXTINGUISHER SIGN



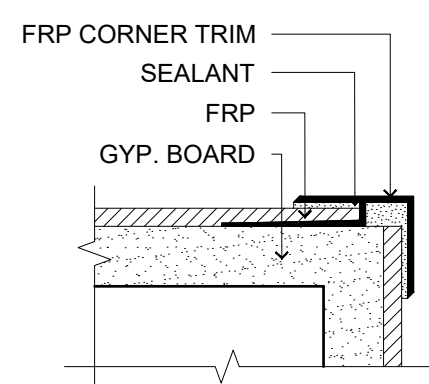
ASSEMBLY SIGN



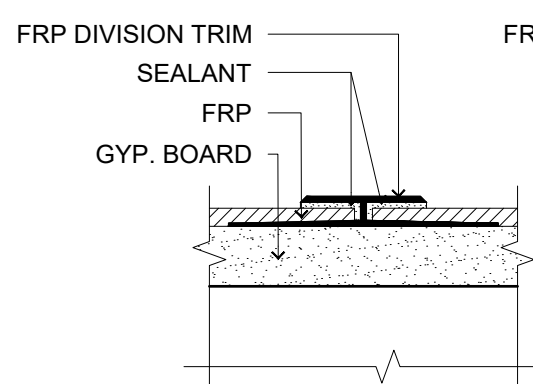
EXIT SIGN

B4 TYP. INTERIOR SIGNAGE

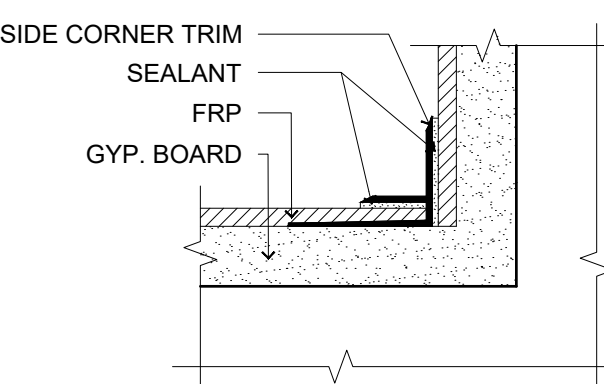
1" = 1'-0"



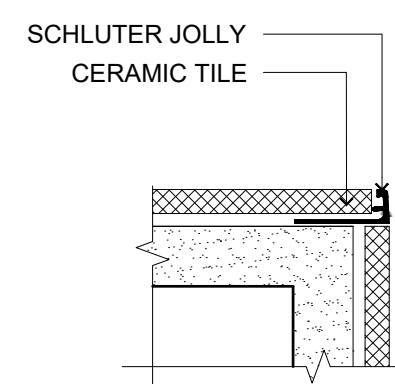
TYPICAL FRP OUTSIDE CORNER DETAIL



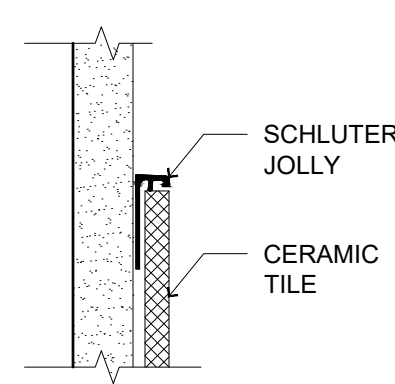
TYPICAL FRP SURFACE DETAIL



TYPICAL FRP INSIDE CORNER DETAIL



TYPICAL SCHLUTER OUTSIDE CORNER DETAIL



TYPICAL SCHLUTER WAINSCOT DETAIL

A4 TYPICAL FRP AND SCHLUTER DETAILS

6" = 1'-0"

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NO.	DATE	DESCRIPTION
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Drawn by:

RL/KL

Checked by:

SM

Date:

07-25-2022

Sheet Title:

FINISH LEGEND,
SCHEDULE &
DETAILS

Job Number:

2022-24

Sheet No.

A601

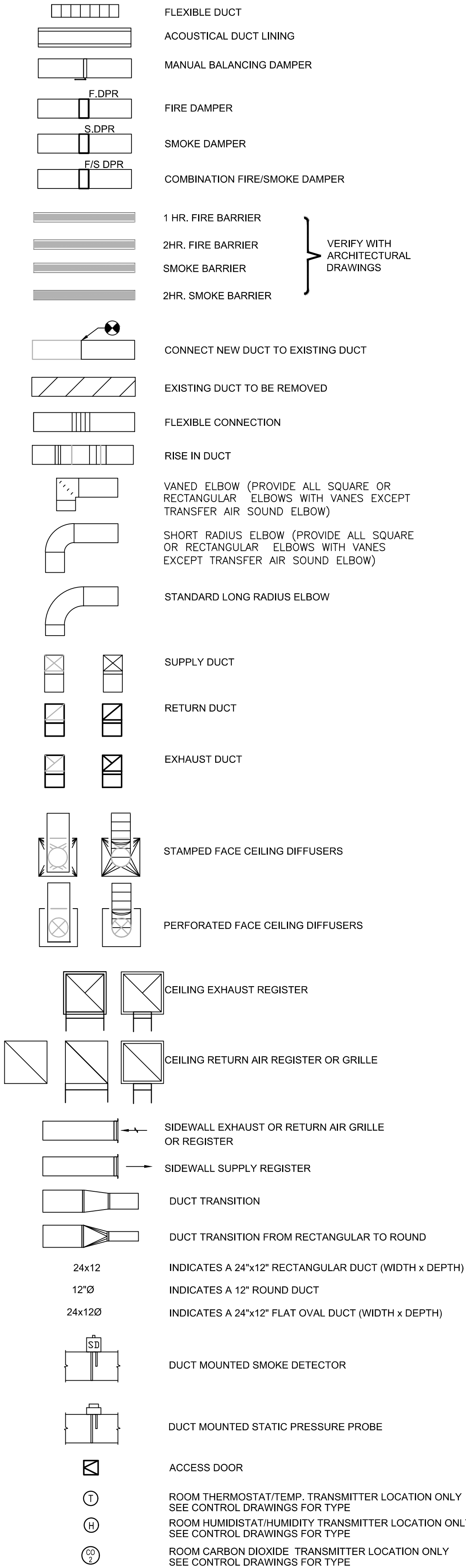
Date: Sep 28, 2021 11:24am User:PHWatkins Drawing File: H:\BQ\8357\CAD\AutoCAD\8357 - Santa Fe County, Cerrillos Senior Center\Sheets\Mechanical\8357-M-001.dwg - Last Saved By: PHWatkins Sep 28, 2021 11:15am Layout Name: M001 MECHANICAL LEGEND

ABBREVIATIONS

ACU	AIR CONDITIONING UNIT
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
AL	ACOUSTIC LINING
BHP	BRAKE HORSEPOWER
BOD	BOTTOM OF DUCT
BOP	BOTTOM OF PIPE
BTU	BRITISH THERMAL UNIT
BTUH	BTU PER HOUR
CA	COMPRESSED AIR
CD	CONDENSATE DRAIN
CFM	CUBIC FEET PER MINUTE
CONT.	CONTINUATION
D	DRAIN
DX	DIRECT EXPANSION
ENT	ENTERING
EXH	EXHAUST
EMCS	ENERGY MANAGEMENT CONTROL SYSTEM
°F	DEGREES FAHRENHEIT
FB	FLAT BOTTOM
FCU	FAN COIL UNIT
FD	FLOOR DRAIN
F.G.	FILTER GAUGE
FLEX	FLEXIBLE
FPM	FEET PER MINUTE
FS	FLOOR SINK
FT	FLAT TOP
FT.	FEET
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
HB	HOSE BIBB
HD	HAND DAMPER (VOLUME DAMPER)
HEPA	HIGH EFFICIENCY PARTICULATE AIR (FILTER)
IN	INCHES
KW	KILOWATT
KWH	KILOWATT HOUR
MA	MAIN AIR (CONTROLS)
MCC	MOTOR CONTROL CENTER
NA	NOT APPLICABLE
NIC	NOT IN CONTRACT
NO.	NUMBER (QUANTITY)
OA	OUTSIDE AIR
OBD	OPPOSED BLADE DAMPER
PRV	PRESSURE REDUCING VALVE
PSIG	POUNDS PER SQUARE INCH GAGE
QTY	QUANTITY
QUAD	QUADRANT
R.A.	RETURN AIR
Rh	RELATIVE HUMIDITY
RPM	REVOLUTIONS PER MINUTE
SCD	SMOKE CONTROL DAMPER
SP	STATIC PRESSURE (INCHES OF WATER)
SDVV	SINGLE DUCT VARIABLE VOLUME
ST	SOUND TRAP
TOPT	TOP OF PIPE TRAPEZE
TP	TOTAL PRESSURE (INCHES OF WATER)
TYP.	TYPICAL
V	VOLTS
VAC	VOLTS, ALTERNATING CURRENT
VAV	VARIABLE AIR VOLUME
VEL	VELOCITY
VTR	VENT THRU ROOF

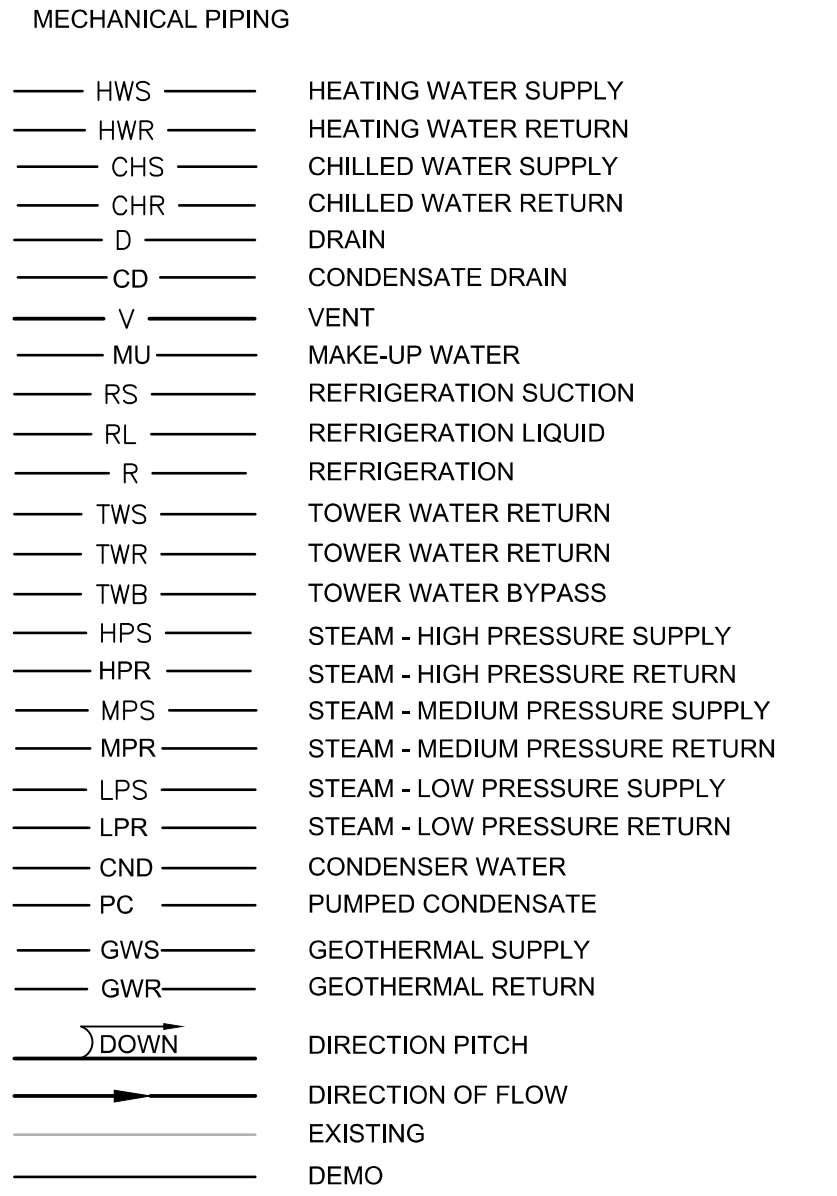
NOTE: NOT ALL ABBREVIATIONS OR SYMBOLS APPLY TO THIS PROJECT

DUCTWORK SYMBOLS

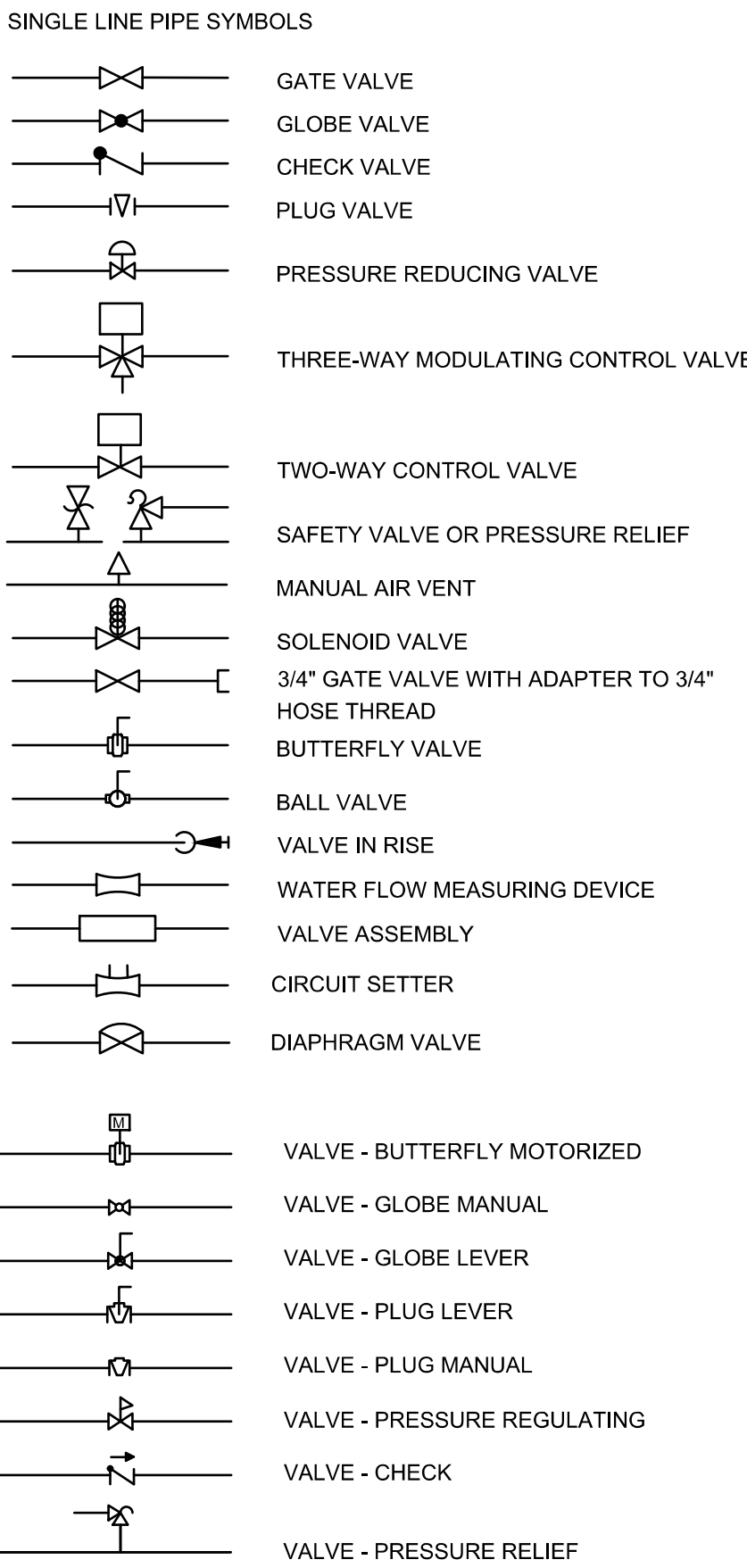


VERIFY WITH ARCHITECTURAL DRAWINGS

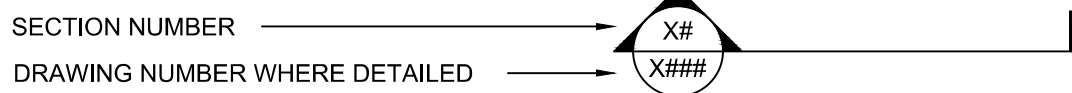
PIPING SYMBOLS



VALVE SYMBOLS



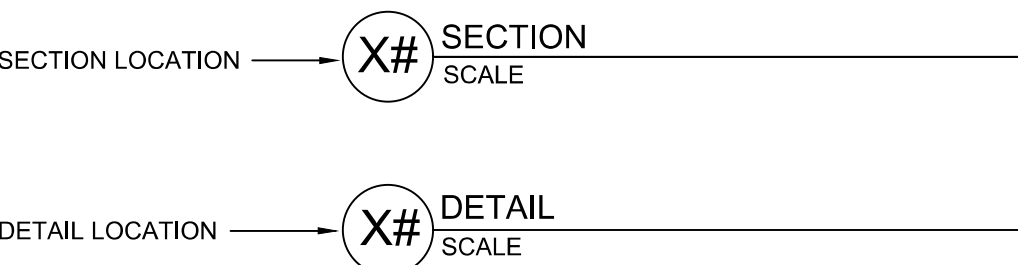
SECTION SYMBOLS



DETAIL REFERENCE



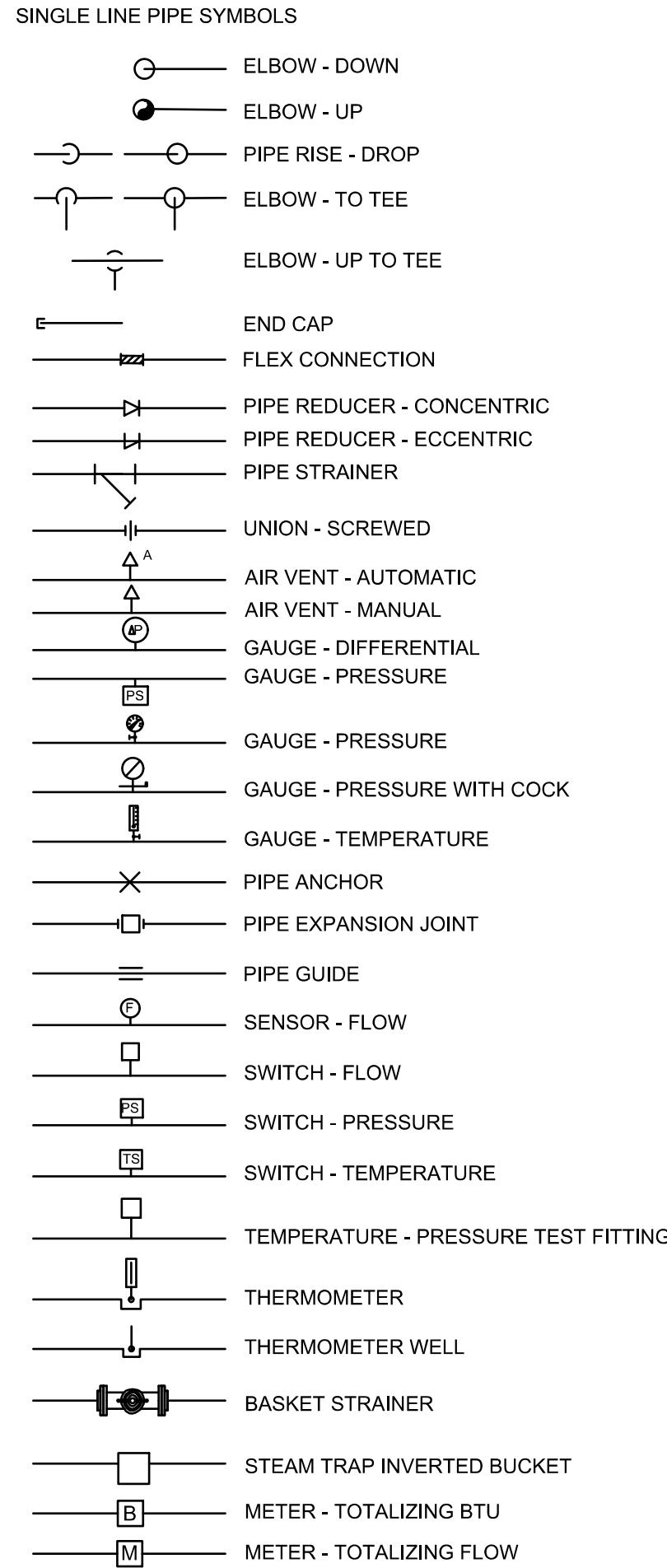
SECTION AND DETAIL TITLES



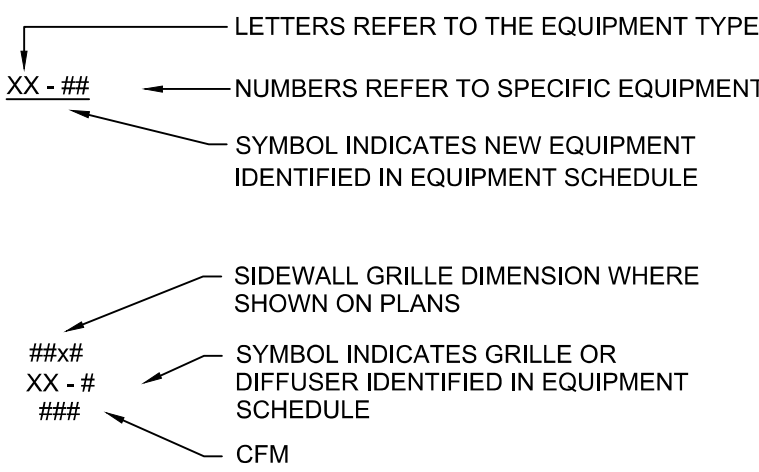
GENERAL NOTES

- ALL PIPING AND DUCTS IN FINISHED ROOMS OR SPACES SHALL BE CONCEALED IN FURRED CHASES OR SUSPENDED CEILINGS, UNLESS OTHERWISE NOTED.
- PROVIDE ACCESS PANELS OR DOORS IN INACCESSIBLE CEILINGS AND/OR CHASES FOR ALL VALVES, TRAPS, DAMPERS, CLEANOUTS, COILS, FANS, CONTROLS, ETC. THEY SHALL BE FURNISHED UNDER DIVISION 23 AND INSTALLED UNDER THE ARCHITECTURAL SPECIFICATION. ACCESS DOOR RATING SHALL MATCH CLASSIFICATION OF WALL AND CEILING FIRE RATING.
- WATER PIPE CONNECTIONS TO WATER COILS SHALL BE MADE SO THERE WILL BE COUNTER FLOW BETWEEN WATER AND AIR.
- COORDINATE THE LOCATION OF ALL DIFFUSERS, GRILLES, REGISTERS, ACCESS DOORS, ETC., WITH THE ARCHITECTURAL REFLECTED CEILING PLAN(S).
- ALL ROUND RUNOUTS AND DROPS TO DIFFUSERS SHALL BE THE SAME NOMINAL SIZE AS THE SCHEDULED DIFFUSER NECK SIZE.
- THE FIRST FIGURE OF DUCT SIZE INDICATES DIMENSION OF FACE SHOWN OR INDICATED. ALL DUCT SIZES SHOWN ON DRAWINGS ARE NET INSIDE DIMENSIONS. PROVIDE ONE INCH ACOUSTICAL LINING (TYPE D3 INSULATION) IN LOW VELOCITY RECTANGULAR DUCTWORK FOR THE FIRST 10 DIAMETERS OF DUCTWORK CONNECTED TO DEVICE, OR AS INDICATED ON DRAWINGS, WHICHEVER IS GREATER. THE REMAINDER OF THIS DUCTWORK PROVIDE AS INDICATED IN THE INSULATION SPECIFICATIONS.
- PROVIDE 1/2" MANUAL AIR VENTS AT ALL HIGH POINTS OF CLOSED SYSTEM PIPING AND 1/2" MANUAL DRAIN VALVES WITH HOSE CONNECTION AT LOW POINTS AS REQUIRED TO PROVIDE COMPLETE SYSTEM DRAINAGE. WHERE DRAIN VALVES OCCUR ABOVE CEILING AREAS AND IN AREAS OUTSIDE MECHANICAL RANGE PROVIDE HOSE CONNECTION ON VALVE.
- PROVIDE TURNING VANES IN ALL SQUARE ELBOWS. EXCEPT TRANSFER AIR SOUND ELBOWS.
- REFER TO THE ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF ALL FIRE RATED AND/OR SMOKE RATED WALLS AND ASSEMBLIES. PROVIDE APPROVED FIRE DAMPERS IN ALL REQUIRED PENETRATIONS FOR DUCTWORK, GRILLES, REGISTERS AND DIFFUSERS. ALL PIPE AND DUCTWORK PENETRATIONS OF FIRE, SMOKE AND FULL HEIGHT WALLS SHALL BE CAULKED AIRTIGHT TO THE ADJACENT STRUCTURE BY MEANS OF U.L. APPROVED FIRE PROOF CAULKING MATERIAL.
- CONTRACTOR SHALL COORDINATE ALL DUCTWORK, PIPING, PLUMBING AND FIRE PROTECTION PIPING WITH STRUCTURAL AND ELECTRICAL SYSTEMS AND SHALL PROVIDE NECESSARY OFFSETS TO AVOID CONFLICTS AND TO MAINTAIN EQUIPMENT ACCESS AND SERVICEABILITY.
- CONTRACTOR SHALL FURNISH ALL NECESSARY STRUCTURES, INSERTS, SLEEVES, AND HANGING DEVICES FOR INSTALLATION OF MECHANICAL AND PLUMBING EQUIPMENT DUCTWORK AND PIPING, ETC. CONTRACTOR SHALL COORDINATE WITH GENERAL CONTRACTOR AND ALL BUILDING TRADES TO AVOID CONFLICTS AND TO MAINTAIN EQUIPMENT ACCESS AND SERVICEABILITY.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL NECESSARY MISCELLANEOUS ANGLES, CHANNELS, UNISTRUT, ETC. AS MAY BE REQUIRED TO ADEQUATELY SUPPORT THE MECHANICAL PIPING, DUCTWORK, AND EQUIPMENT IN A MANNER APPROVED BY THE ARCHITECT WHICH WILL NOT OVERLOAD THE BUILDING STRUCTURAL SYSTEM.
- CONTRACTOR SHALL PROVIDE RETURN AIR OR TRANSFER AIR OPENINGS IN FULL HEIGHT WALLS SIZED AT 350 FPM (UNLESS OTHERWISE SPECIFICALLY SHOWN ON THE DRAWINGS) TO CREATE AND/OR MAINTAIN A RETURN AIR PATH AS REQUIRED. FIRE DAMPERS AND/OR SMOKE DAMPERS SHALL BE PROVIDED IN SUCH OPENINGS WHERE REQUIRED BY NOTE "J".
- SEAL ALL TRANSVERSE JOINTS, LONGITUDINAL SEAMS, DUCT WALL PENETRATIONS AND FITTING CONNECTIONS ON ALL DUCT SYSTEMS.
- MECHANICAL ITEMS SUCH AS ROOF DRAINS, FLOOR DRAINS, PLUMBING FIXTURES, ETC. SHOWN ON THE ARCHITECTURAL DRAWINGS BUT NOT SHOWN ON THE MECHANICAL DRAWINGS SHALL BE INCLUDED IN THE PROJECT. THESE ITEMS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT FOR INCLUSION IN ADDENDUM.

FITTING SYMBOLS



EQUIPMENT SYMBOLS



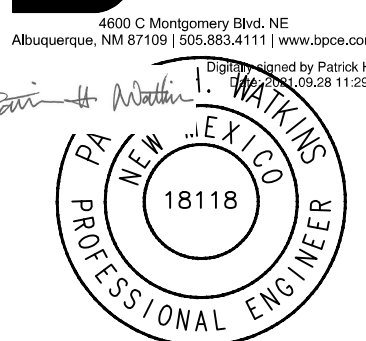
SEISMIC NOTE

THE BUILDING HOUSES EMERGENCY VEHICLES AND SHALL BE CONSIDERED A RISK CATEGORY IV FACILITY. THE SEISMIC DESIGN CATEGORY IS D. THE MECHANICAL AND PLUMBING EQUIPMENT SHALL BE BRACED SUCH THAT THE FACILITY IS OPERATIONAL AFTER A SEISMIC EVENT. A SEISMIC ANALYSIS SHALL BE PERFORMED BY A REGISTERED STRUCTURAL ENGINEER AND BRACING SHALL BE PROVIDED AND INSTALLED PER THE DOCUMENTS PROVIDED BY THAT ENGINEER. ACCEPTABLE SEISMIC PROVIDERS ARE VMC, VIBRO-ACOUSTICS AND AMBER BOOTH.

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CERILLOS SENIOR CENTER
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FIRE STATION

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SANTA FE COUNTY, NEW MEXICO

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NO.	DESCRIPTION	DATE

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MTO

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09-27-21

Sheet Title:

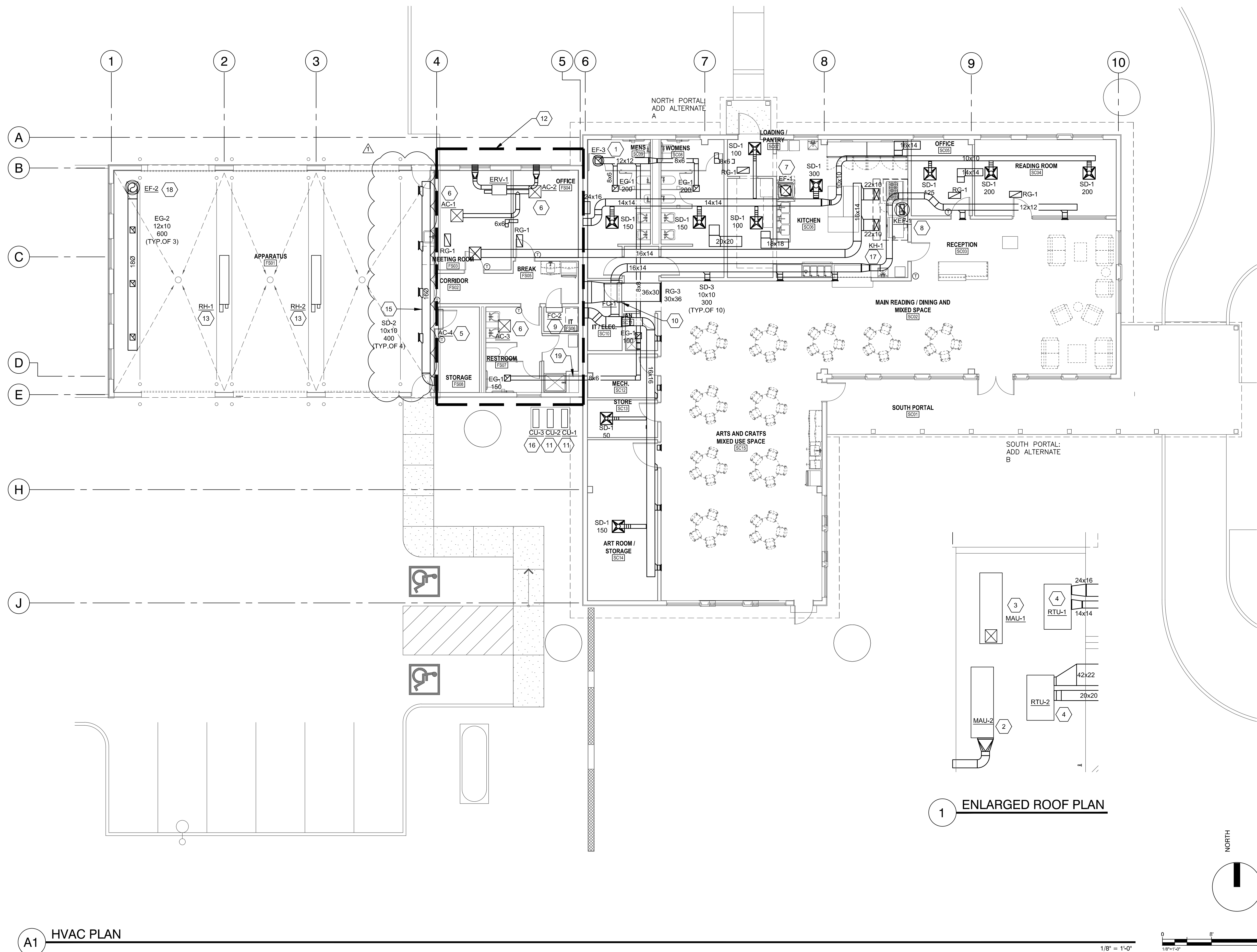
MECHANICAL
LEGEND

Job Number:

Sheet No.

M001

PERMIT & BID SET
07-25-2022



GENERAL NOTES

- A. REFER TO M-701 FOR MECHANICAL SCHEDULES.
B. REFER TO M-501 FOR MECHANICAL DETAILS.

PERMIT & BID SET
07-25-2022

SHEET KEYED NOTES

1. ROOF EXHAUSTER ON 14" CURB. ROOF CURB TO MATCH ROOF PROFILE. COORDINATE WITH ELECTRICAL CONTRACTOR TO TO ENERGIZE FAN THROUGH LIGHTING RELAY PANEL. COORDINATE WITH OWNER TO DEVELOP THE SCHEDULE OF OPERATION. REFER TO M-501 FOR DETAIL.
2. MAKE-UP AIR UNIT SERVING APPARATUS BAY ON 14" ROOF CURB. ROOF CURB TO MATCH ROOF PROFILE. REFER TO ROOF CURB DETAIL ON M-501.
3. MAKE-UP AIR UNIT SERVING KITCHEN HOOD ON 14" ROOF CURB. ROOF CURB TO MATCH ROOF PROFILE. REFER TO ROOF CURB DETAIL ON M-501.
4. PACKAGED ROOFTOP HEAT PUMP ON 14" ROOF CURB. ROOF CURB TO MATCH ROOF PROFILE. REFER TO ROOF CURB DETAIL ON M-501. PROVIDE 7-DAY PROGRAMMABLE THERMOSTAT WITH UNIT.
5. WALL MOUNTED AIR CONDITIONING UNIT ABOVE DOOR. PROVIDE WIRED THERMOSTAT. PROVIDE WALL CONCEALMENT CHANNEL FOR REFRIGERATION PIPING AND CONDENSATE PUMP. CU-3 IS THE ASSOCIATED OUTDOOR UNIT.
6. CEILING CASSETTE AIR CONDITIONING UNIT. PROVIDE CONDENSATE PUMP. CU-3 IS THE ASSOCIATED OUTDOOR UNIT. PROVIDE WIRED THERMOSTAT.
7. UPBLAST ROOF EXHAUSTER SERVING DISHWASH CONDENSATE HOOD ON 14" ROOF CURB. ROOF CURB TO MATCH ROOF PROFILE.
8. UPBLAST GREASE FAN ON 14" ROOF CURB. ROOF CURB TO MATCH ROOF PROFILE. REFER TO GREASE FAN DETAIL ON M-501.
9. WALL MOUNTED AIR CONDITIONING UNIT ABOVE DOOR. PROVIDE WIRED THERMOSTAT. PROVIDE WALL CONCEALMENT CHANNEL FOR REFRIGERATION PIPING AND CONDENSATE PUMP. CU-2 IS THE ASSOCIATED OUTDOOR UNIT.
10. WALL MOUNTED AIR CONDITIONING UNIT ABOVE DOOR. PROVIDE WIRED THERMOSTAT. PROVIDE WALL CONCEALMENT CHANNEL FOR REFRIGERATION PIPING AND CONDENSATE PUMP. CU-1 IS THE ASSOCIATED OUTDOOR UNIT.
11. CONDENSING UNIT ON 4" CONCRETE PAD. FASTEN UNIT TO CONCRETE PAD.
12. REFER TO THE PLAN ON THIS SHEET FOR ROOFTOP EQUIPMENT LAYOUT.
13. RADIANT TUBE HEATER SUSPENDED AS HIGH AS POSSIBLE FROM STRUCTURE. MAINTAIN CLEARANCE TO COMBUSTIBLES PER THE MANUFACTURER'S INSTALLATION GUIDE. ROUTE 4" VENT AND 4" COMBUSTION AIR UP THROUGH ROOF AND TERMINATE EACH WITH WEATHER CAP. PROVIDE UNIT MOUNTED CONTROLS.
14. NOT USED.
15. SUPPLY DUCT SUSPENDED AS HIGH AS POSSIBLE FROM STRUCTURE. COORDINATE INSTALLATION WITH VEHICLE EXHAUST SYSTEM.
16. MULTIPOINT CONDENSING UNIT ON 4" CONCRETE PAD. PROVIDE REFRIGERANT PIPING SIZED BY THE MANUFACTURERS REPRESENTATIVE FOR THE INSTALLATION. THE THERMOSTAT SERVING AC-2 SHALL BE A 7 DAY PROGRAMMABLE UNIT CAPABLE OF SCHEDULING SETBACK FOR UNOCCUPIED TIMES. THE THERMOSTAT SHALL ALSO ENERGIZE THE ERV ON AN ADJUSTABLE SCHEDULE.
17. GREASE HOOD SUSPENDED FROM STRUCTURE. REFER TO THE DETAILS ON SHEET M-501 FOR MORE INFORMATION. PROVIDE ALL WIRING, RELAYS AND ACCESSORIES NECESSARY TO INTERLOCK THE FAN AND MAKE-UP AIR UNIT OPERATION. WITH CONTROLS ON THE HOOD.
18. EXHAUST DUCT UP TO FAN ON ROOF. ROOF CURB TO MATCH ROOF PROFILE. REFER TO FAN DETAIL ON M-501.
19. REFRIGERANT PIPING TO ENTER BUILDING LOW AND TRAVERSE UP TO THE CEILING SPACE. REFRIGERANT PIPING SHALL BE INSULATED AND JACKETED.

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CERILLOS SENIOR CENTER
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1	ADDENDUM #2	10/21/21

Drawn by: MTO

Checked by: PHW

Date: 09-27-21

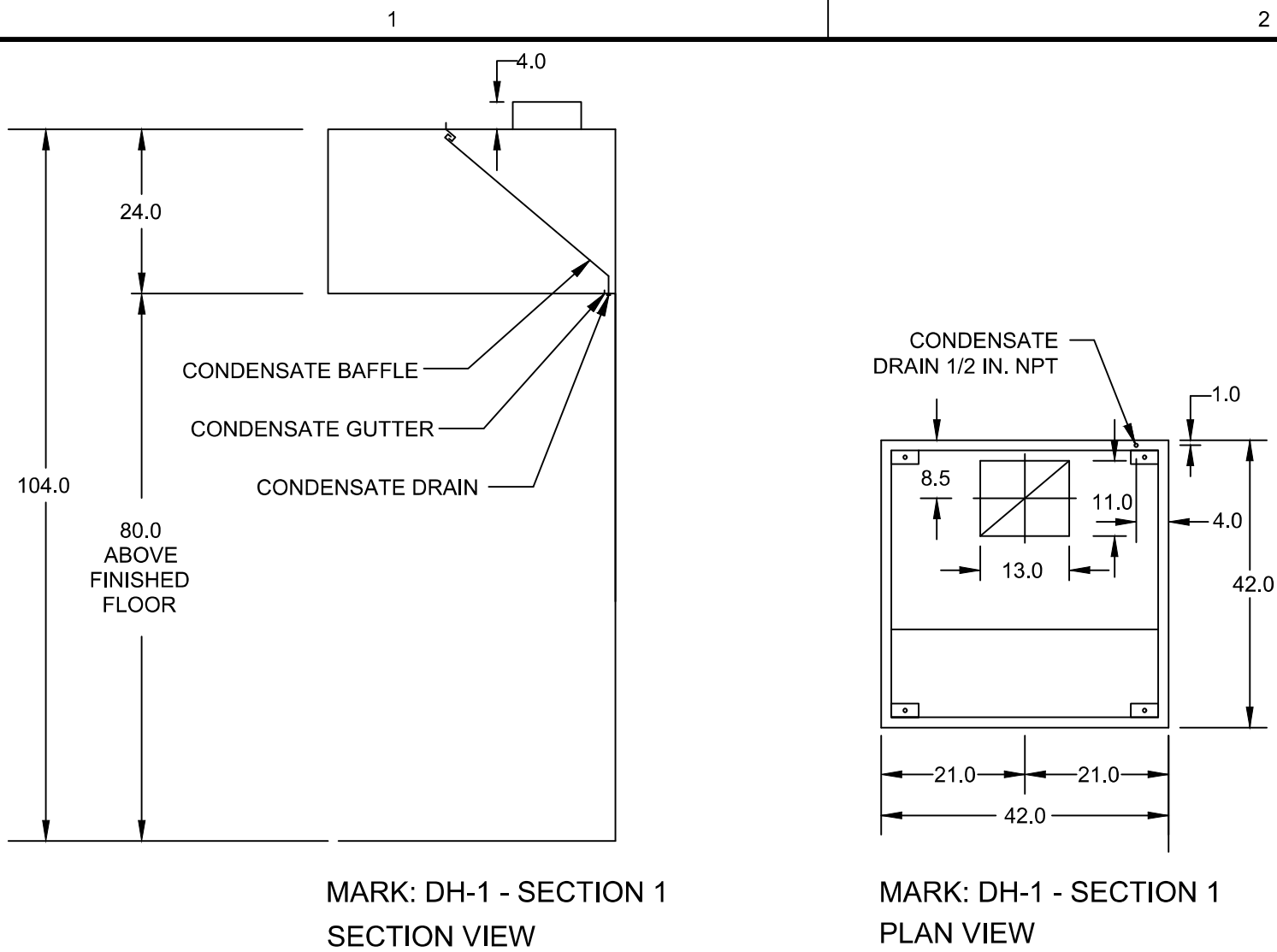
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HVAC PLAN

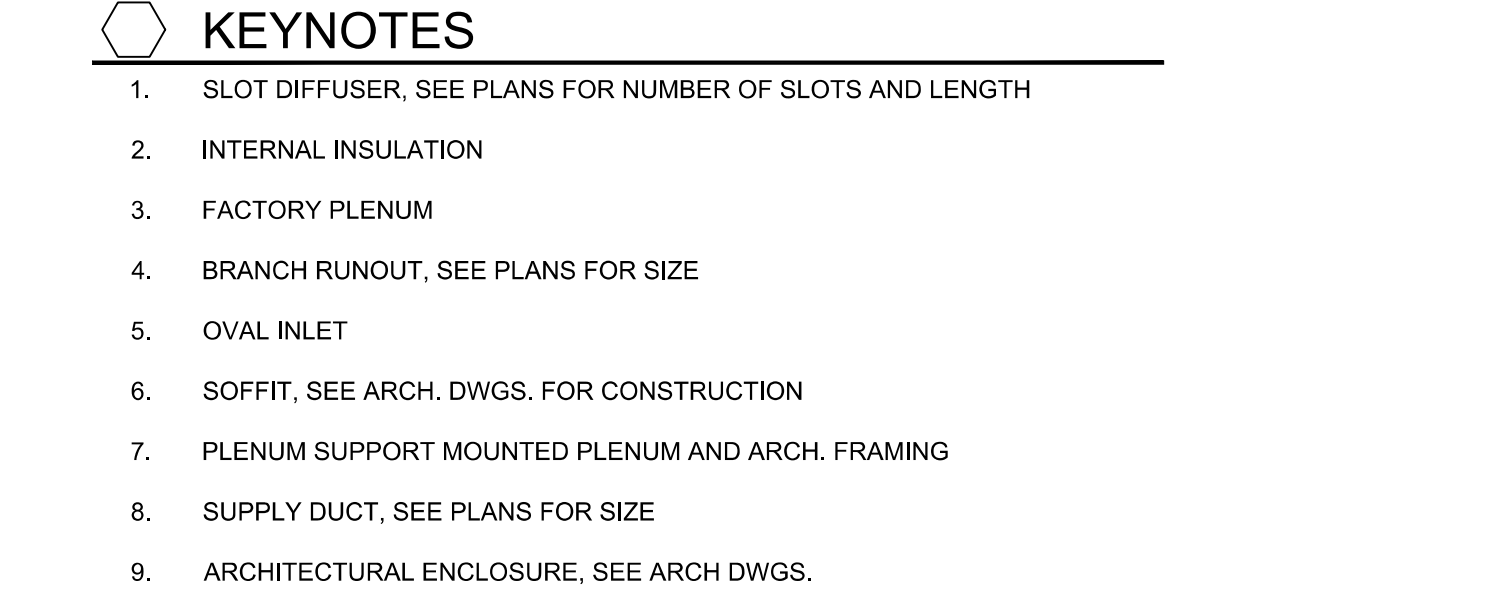
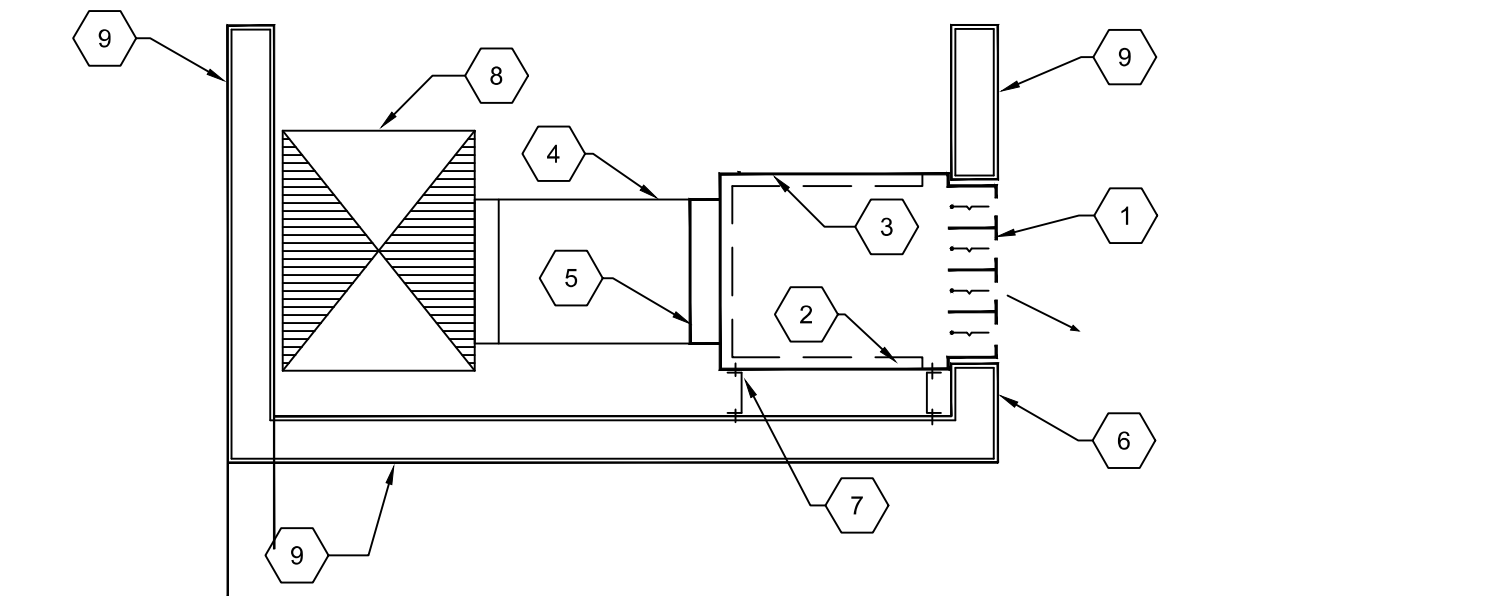
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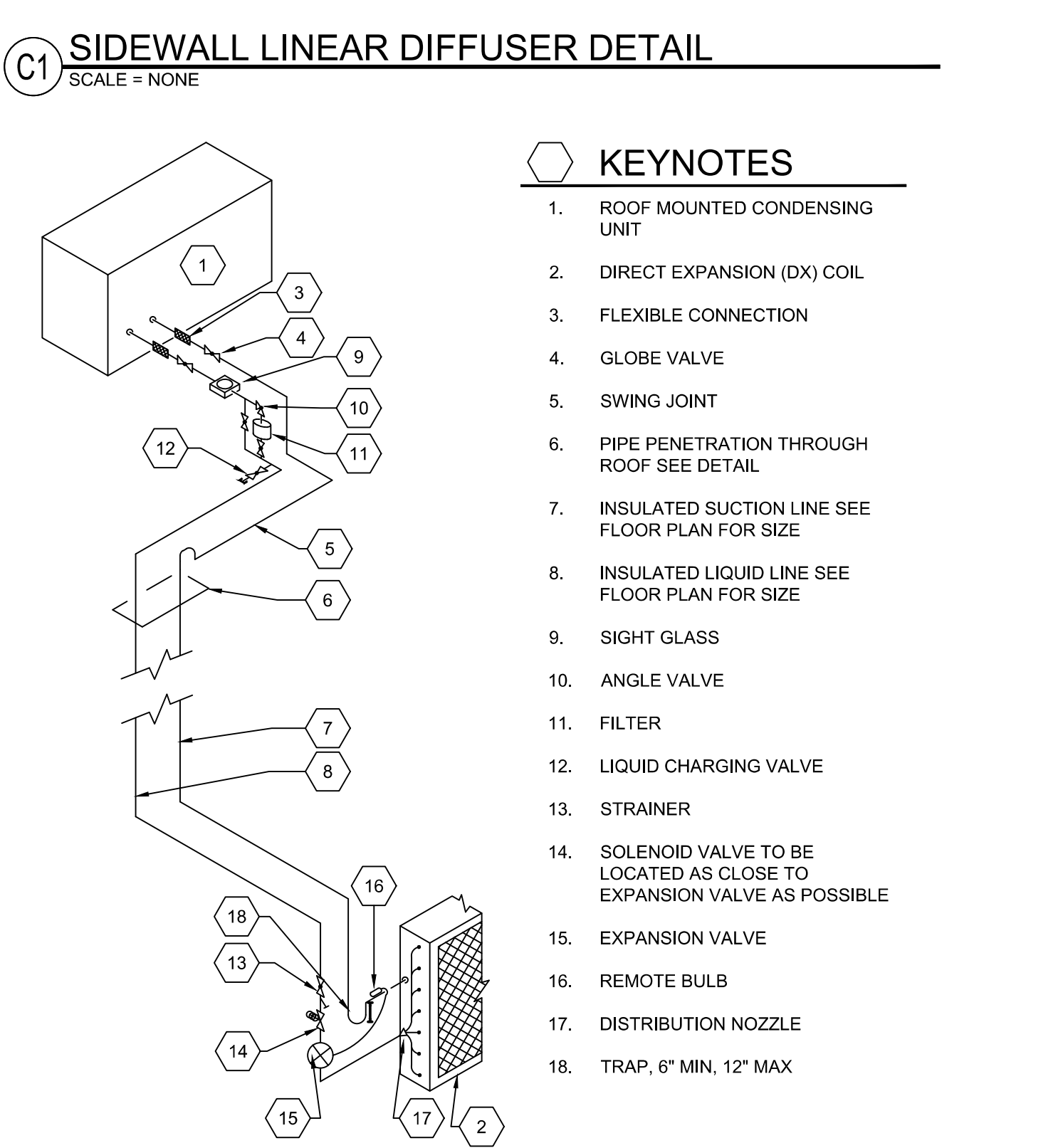
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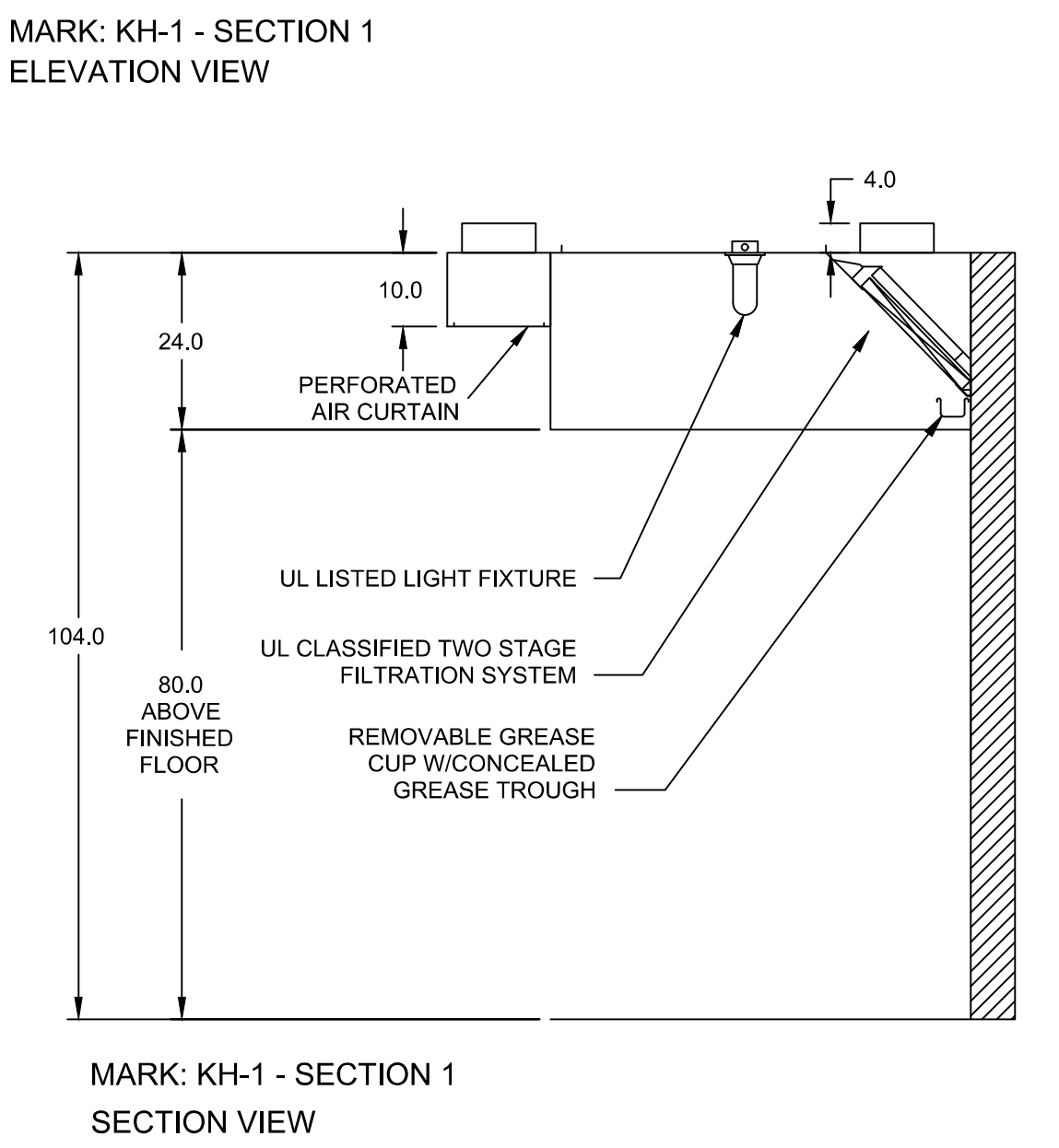
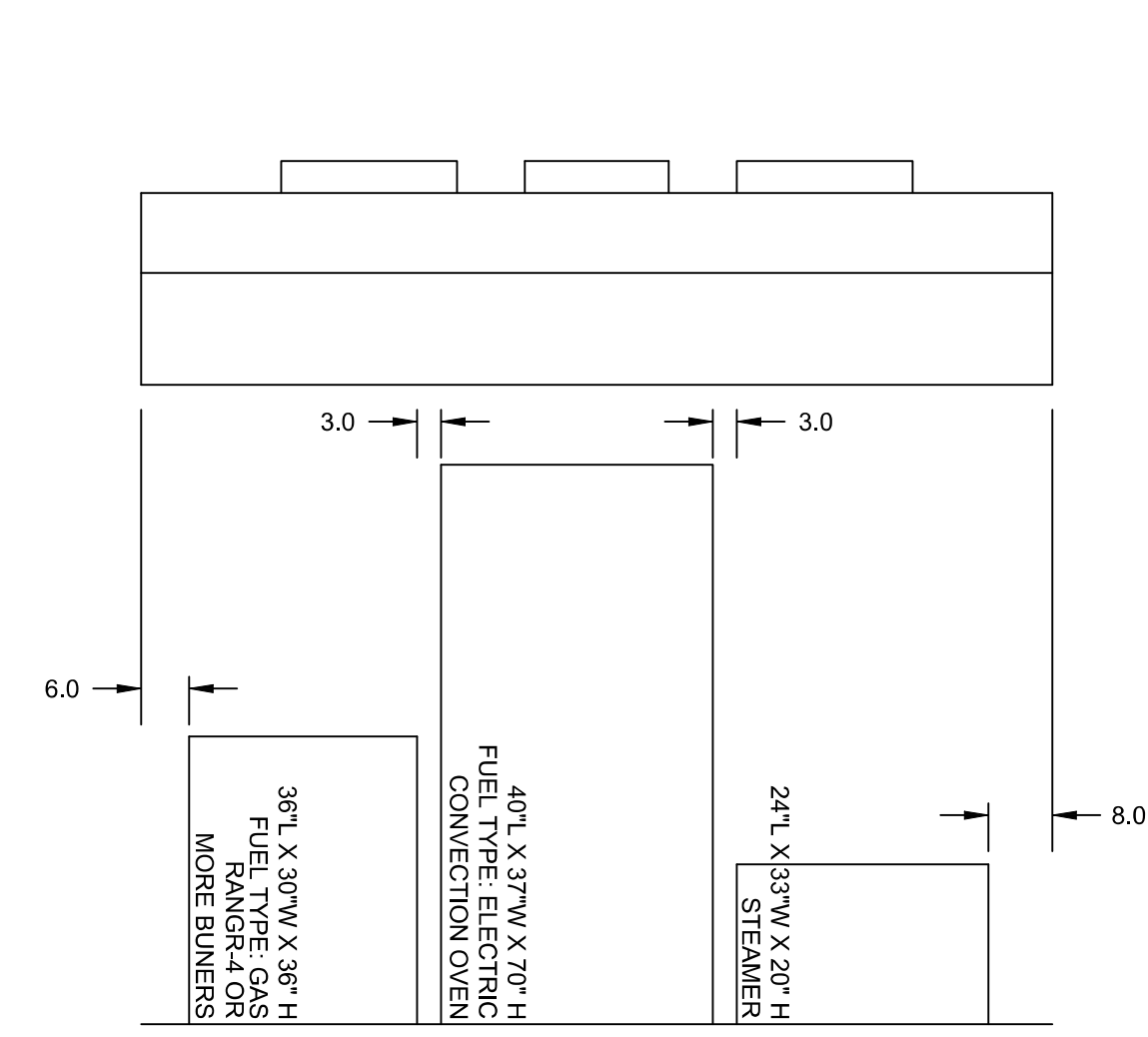
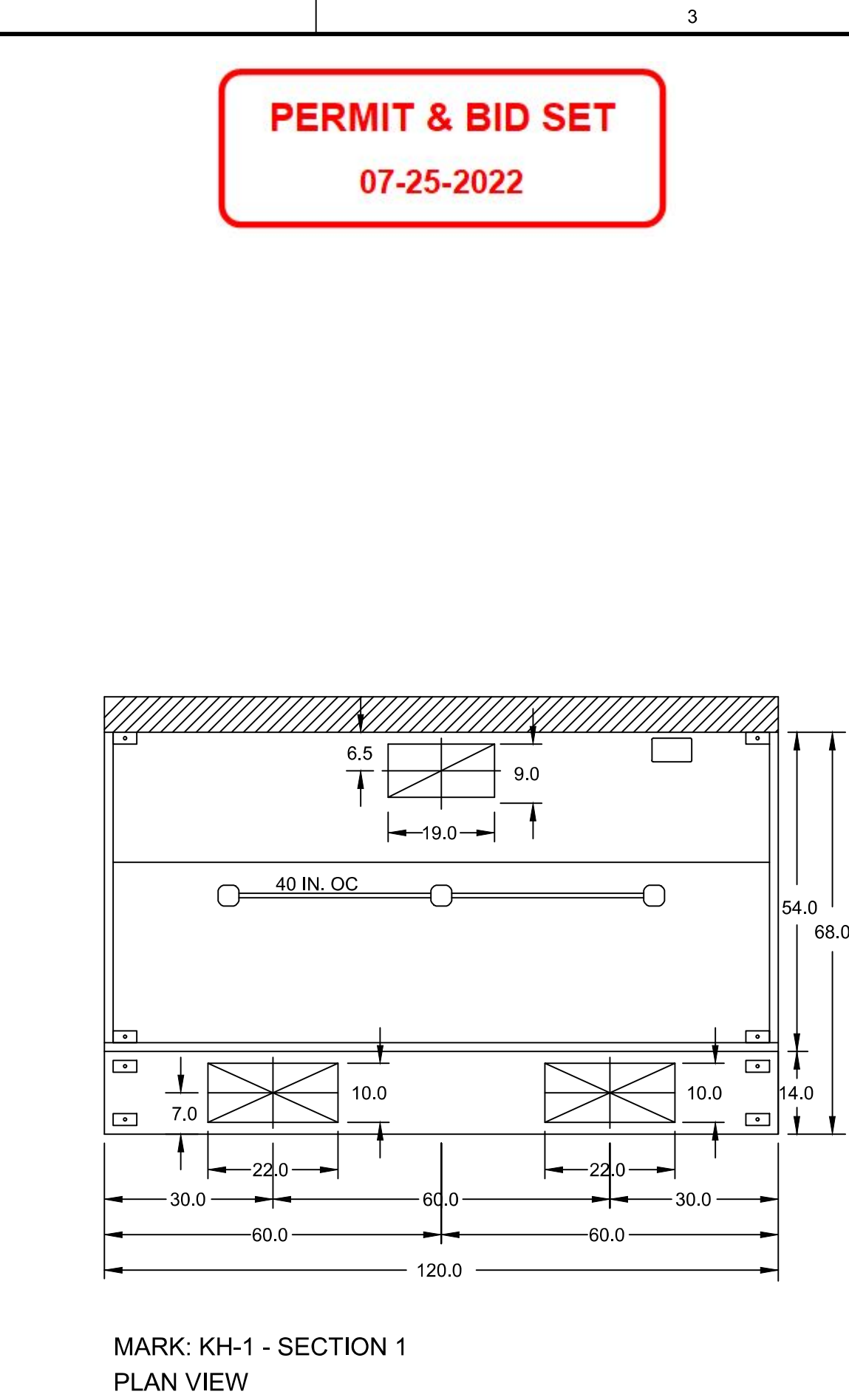
E1 DISHWASHER HOOD DETAIL
SCALE = NONE



C1 SIDEWALL LINEAR DIFFUSER DETAIL
SCALE = NONE

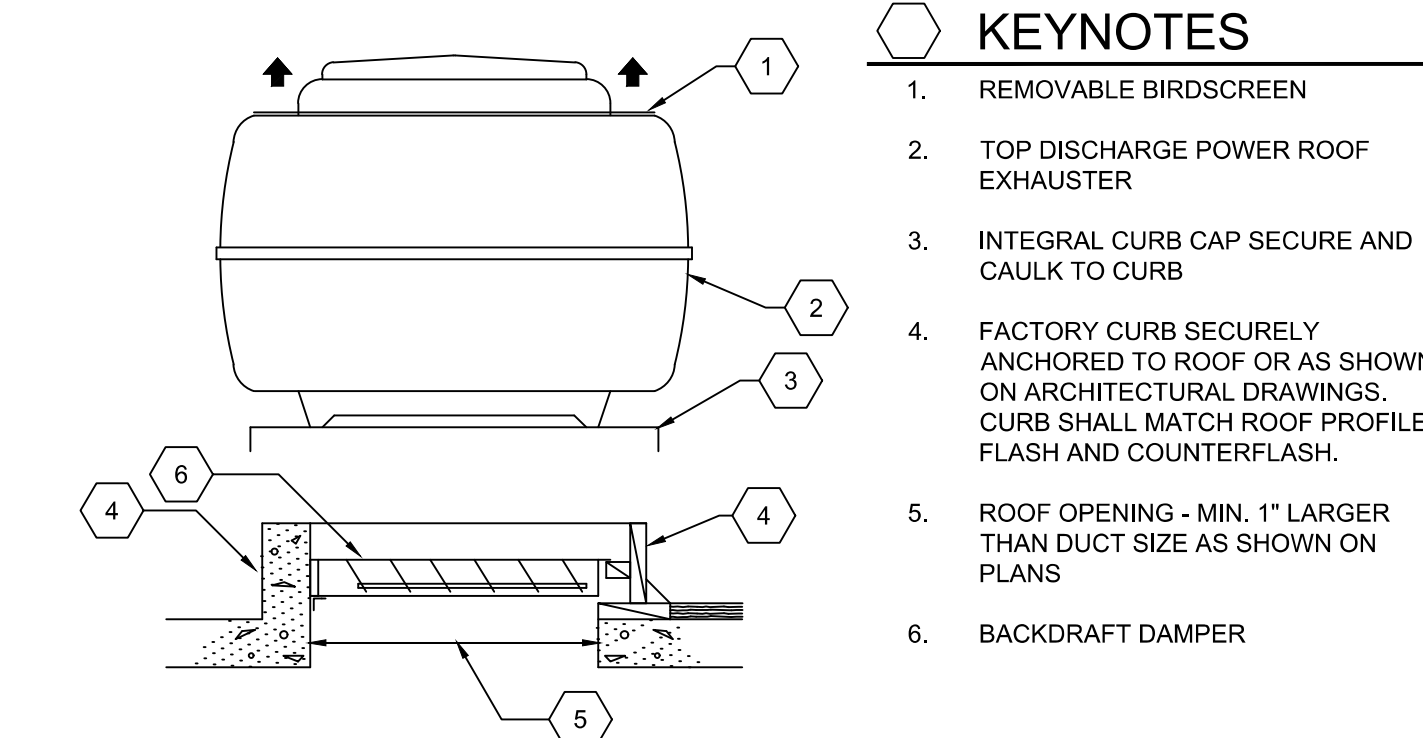


A1 DX COIL PIPING SCHEMATIC
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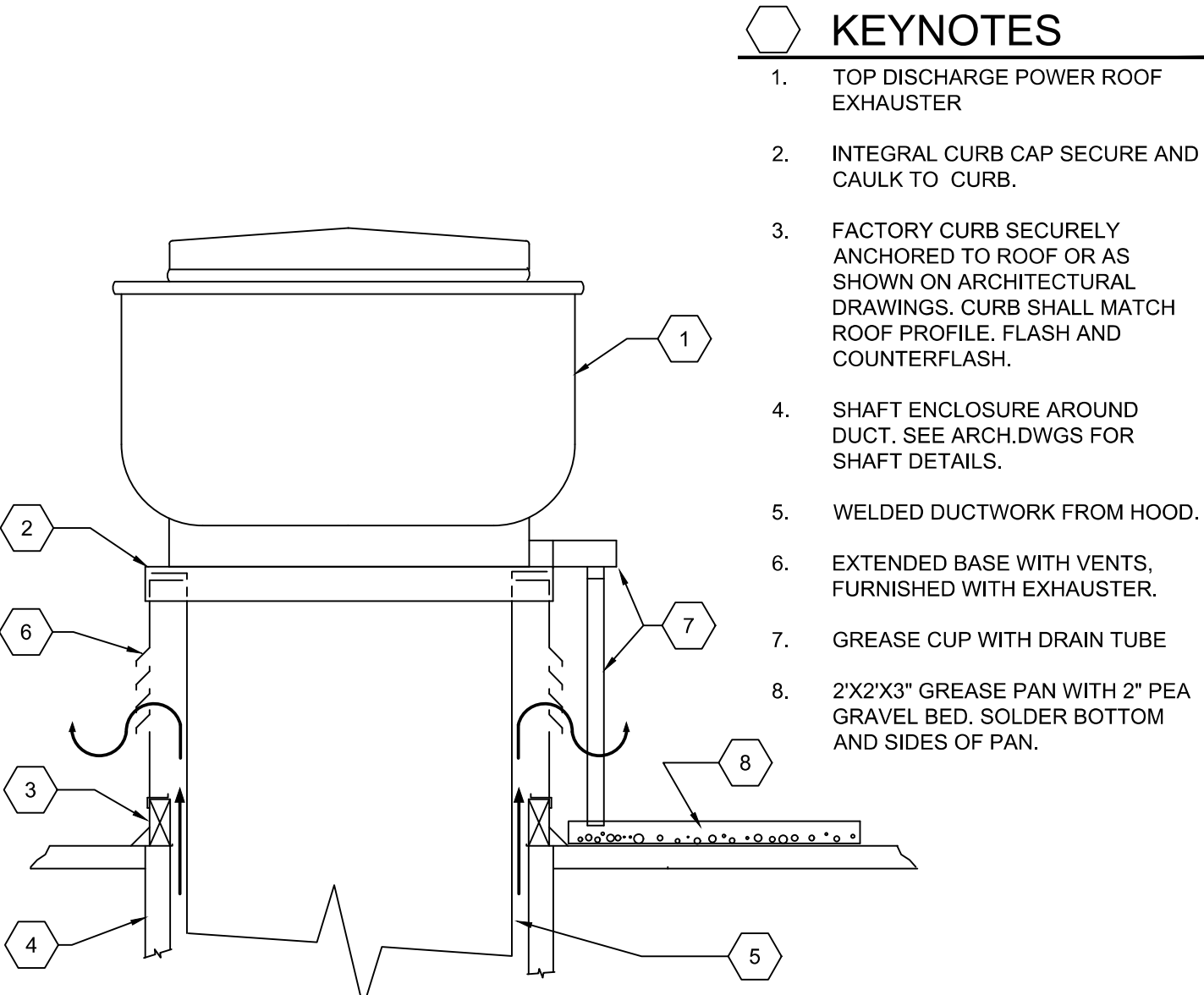


A2 KITCHEN HOOD DETAIL
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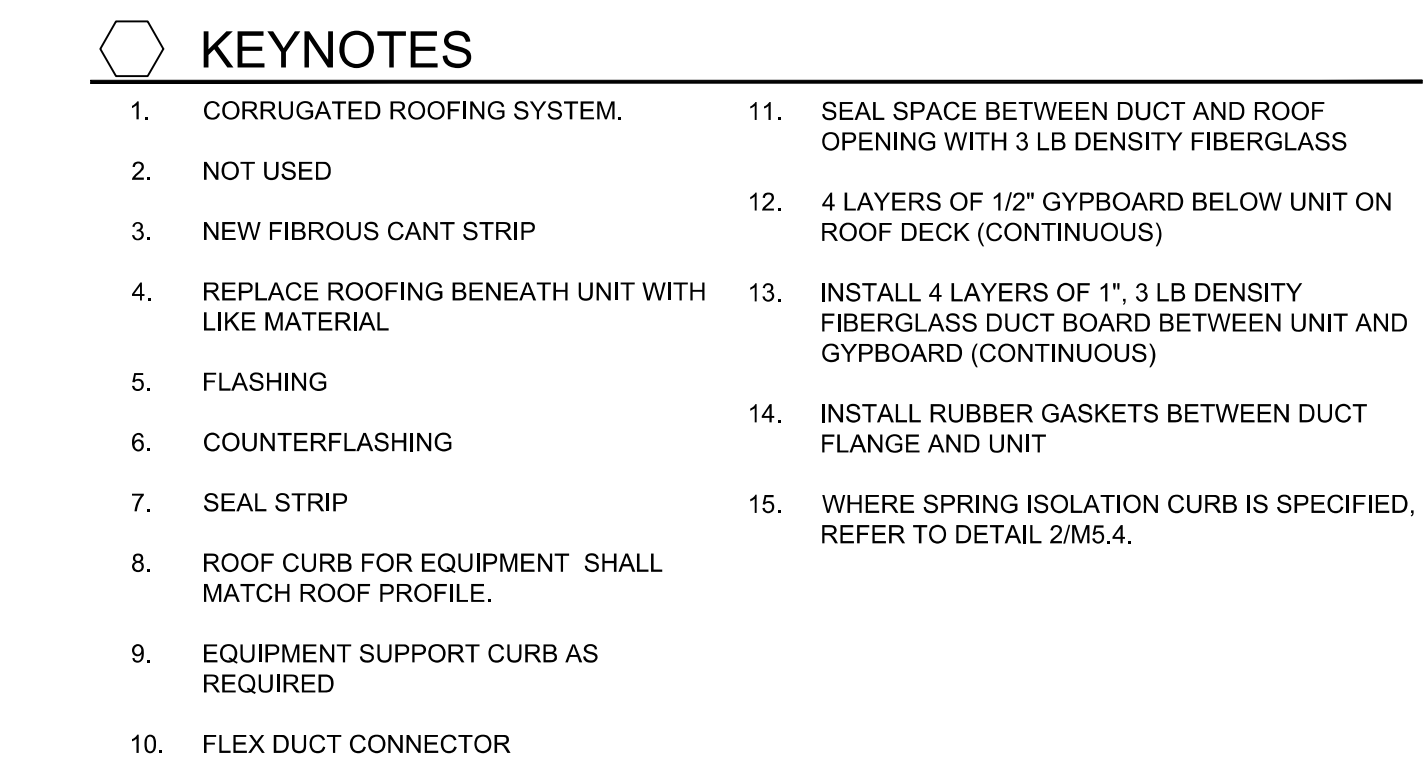
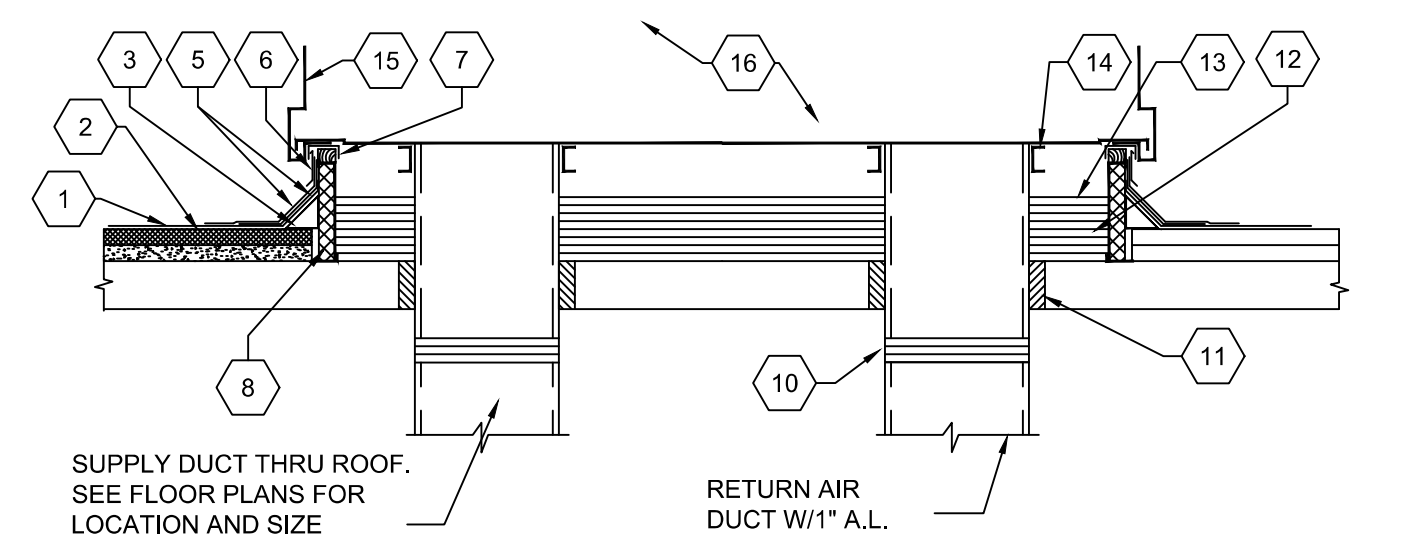
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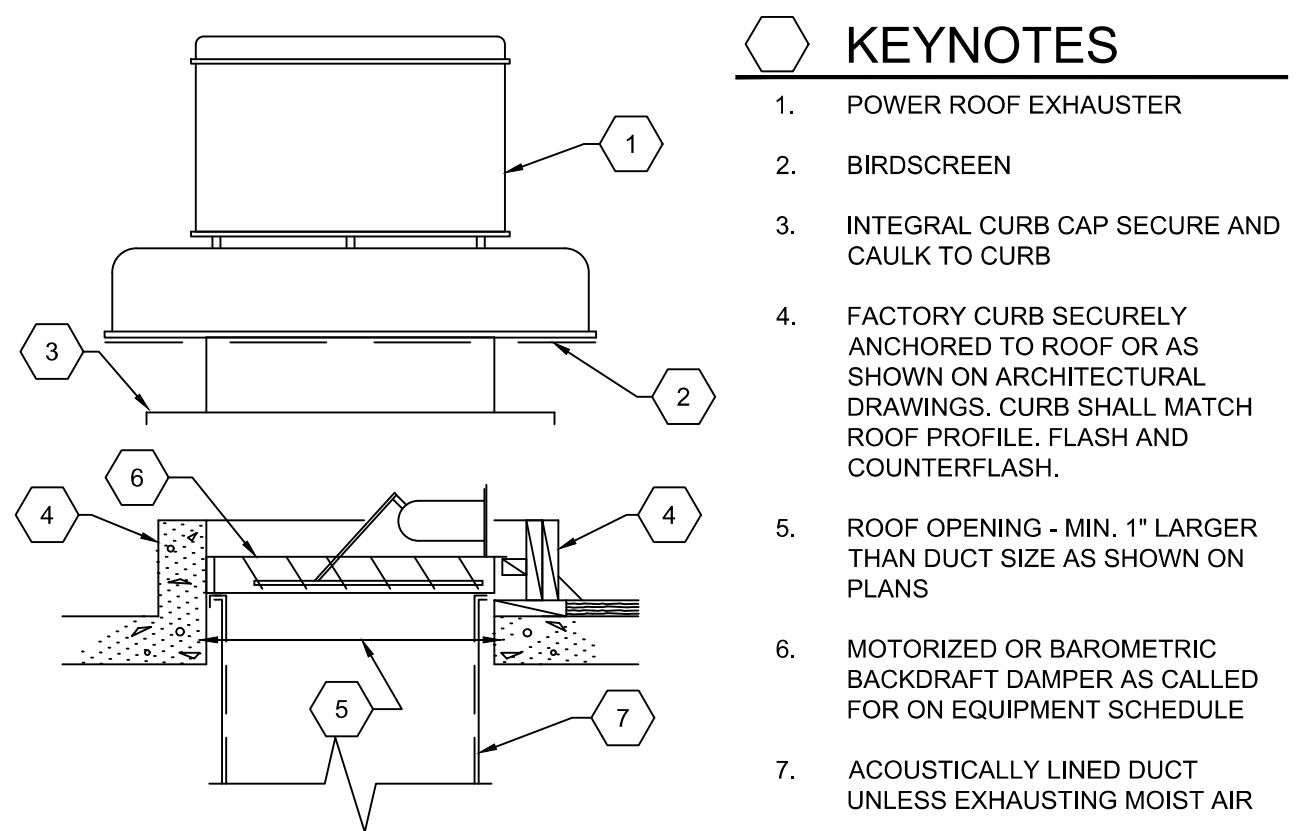
D4 UP-BLAST POWER ROOF EXHAUSTER DETAIL
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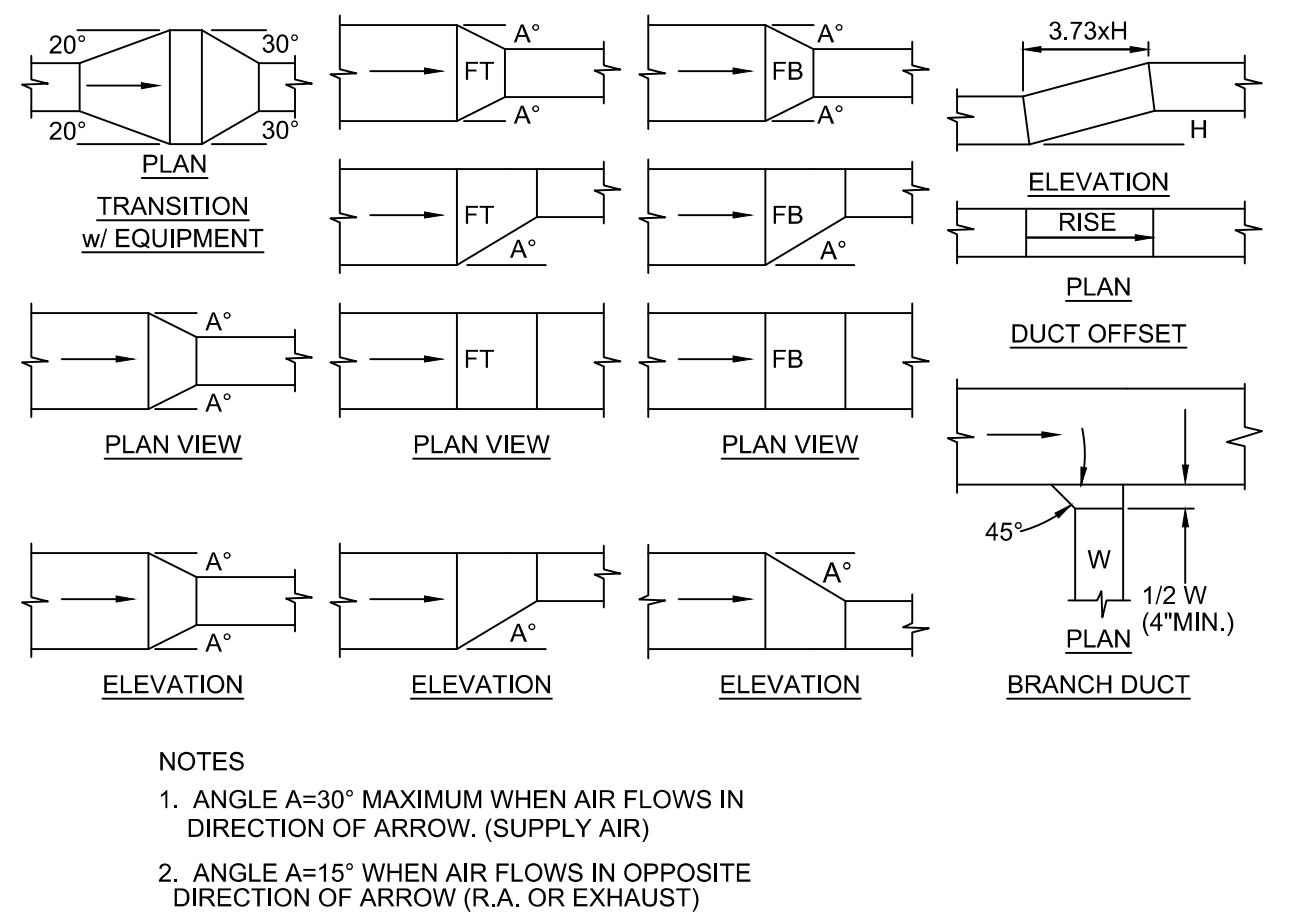
C4 KITCHEN POWER ROOF EXHAUSTER DETAIL
SCALE = NONE



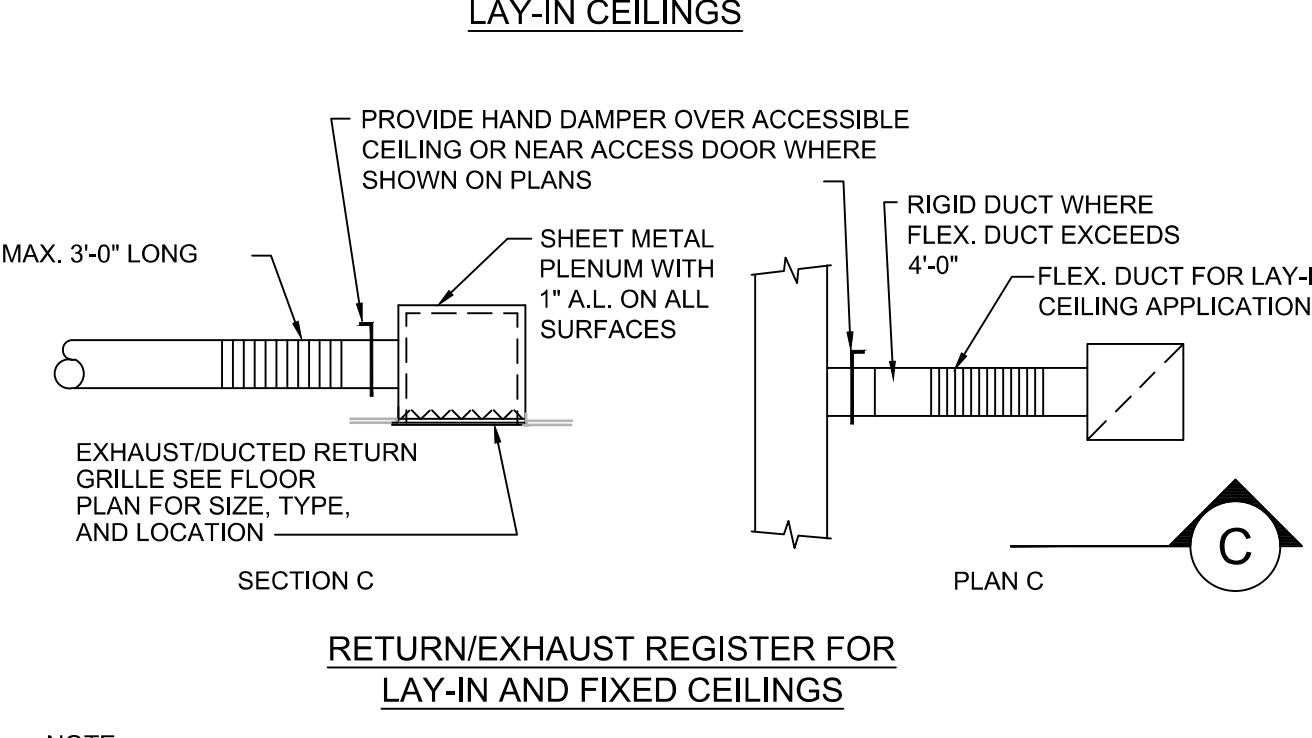
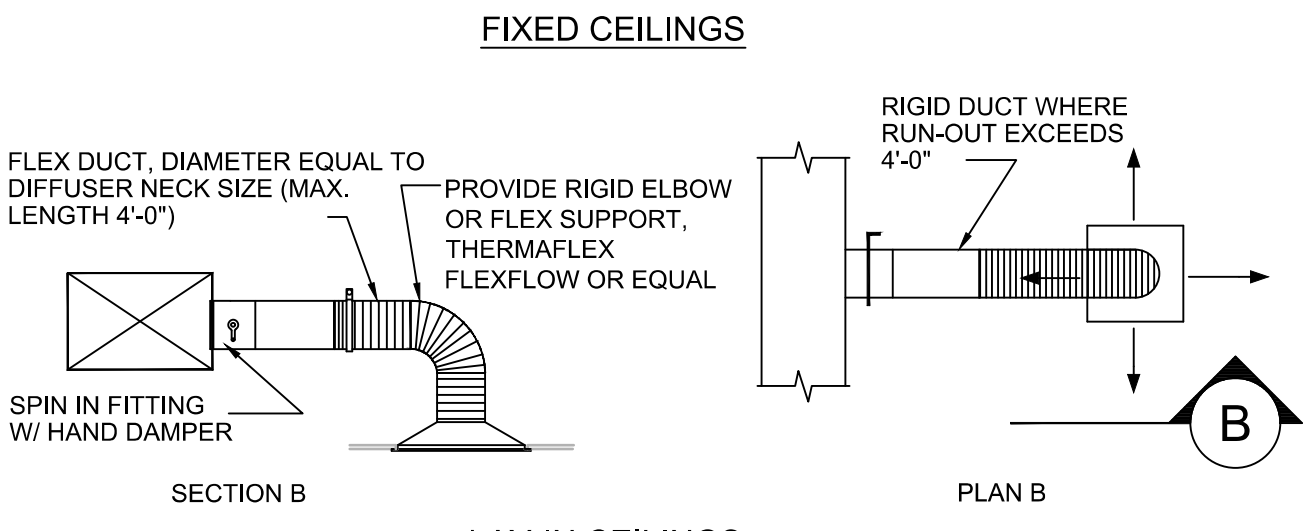
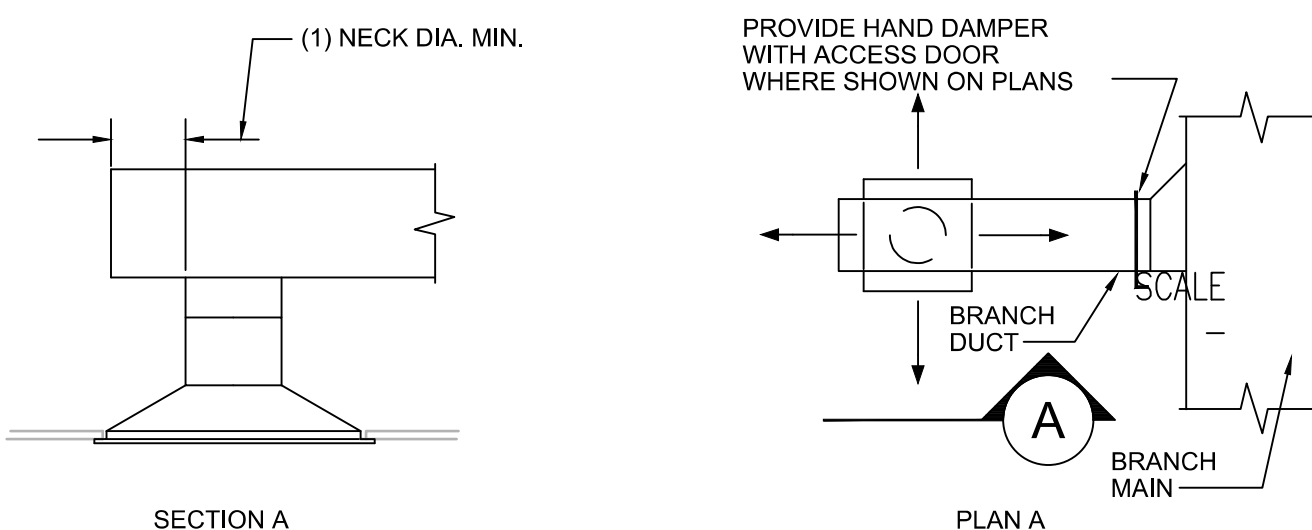
A4 ROOF CURB DETAIL
SCALE = NONE



D5 POWER ROOF EXHAUSTER DETAIL
SCALE = NONE



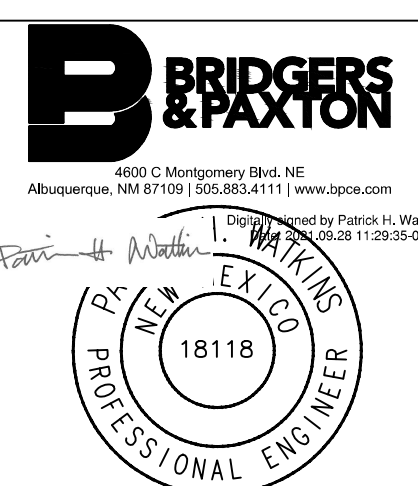
C5 LOW PRESSURE DUCT FITTING DETAIL
SCALE = NONE



A5 DIFFUSER AND REGISTER CONNECTION DETAIL
SCALE = NONE

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MECHANICAL
DETAILS

Job Number:

Sheet No.

M501

PERMIT & BID SET
07-25-2022

GENERAL UNIT DATA					FAN DATA					GAS HEATING DATA					EVAPORATIVE COOLING DATA				ELECTRICAL DATA				OPERATING WEIGHT (LBS)	NOTES
SYMBOL NO.	MANUFACTURER	MODEL NO.	AREA SERVED	FILTER	AIRFLOW (CFM)	RPM	ESP (IN W.G.)	BHP	HP	TYPE	EAT (°F)	LAT (°F)	INPUT (MBH)	OUTPUT (MBH)	EAT		LAT		VOLTS	PHASE	HZ	MCA		
															DB (°F)	WB (°F)	DB (°F)	WB (°F)						
MAU-1	GREENHECK	IGXP112-H12-MF-G	KITCHEN	MERV 8	1,600	1764	0.5	0.33	3/4	INDIRECT	4	94	149.1	119.3	90	61	63	61	208-230	3	60	7.9	1,410	
MAU-2	GREENHECK	IGXP112-H12-MF-G	APPARATUS	MERV 8	1,600	1764	0.5	0.33	3/4	INDIRECT	0	95	149.1	119.3	90	61	63	61	208-230	3	60	7.9	1,410	

MAKE UP AIR UNIT SCHEDULE CONT.									
SYMBOL NO.	SOUND POWER BY OCTAVE BAND (DB)								
		64 HZ	125 HZ	250 HZ	500HZ	1K HZ	2K HZ	4K HZ	8K HZ
MAU-1	Inlet	89	81	76	72	71	69	64	56
MAU-2	Inlet	89	81	76	72	71	69	64	56

ENERGY RECOVERY VENTILATOR SCHEDULE														
SYMBOL NO.	MANUFACTURER & MODEL NO.	AREA SERVED	SUPPLY FAN		EXHAUST FAN		ENERGY HX PERFORMANCE		ELECTRICAL				WEIGHT (LBS)	NOTES
			AIRFLOW (CFM)	ESP (IN. W.G.)	AIRFLOW (CFM)	ESP (IN. W.G.)	SUMMER	WINTER	VOLTS	PHASE	HZ	FLA		
							EFF. %	EFF. %						
ERV-1	RENEWAIRE EV130	FS ADMIN	105	0.5	105	0.5	54	69	120.0	1.0	60.0	1.3	75.0	PROVIDE BACKDRAFT DAMPERS, PTL CONTROLLER AND LOUVERED WALL VENTS

VRF OUTDOOR UNITS SCHEDULE																		
GENERAL UNIT DATA							ELECTRICAL DATA						COMPRESSORS				WEIGHT (LBS)	NOTES
SYMBOL NO.	MANUFACTURER	MODEL NO.	LOCATION	AREA SERVED	COOLING RATED CAPACITY (BTU/H)	HEATING RATED CAPACITY (BTU/H)	VOLT	PHASE	HZ	MCA	MOCp	FLA	COMPRESSOR TYPE	REFR. TYPE	LIQUID LINE	SUCTION LINE		
CU-1	mitsubishi	MUZ-GL12NA	GRADE	SC10 IT/ELEC	12,000	12,000	208-230	1	60	9	15		DC-INVERTER	R-410A	1/4	3/8	81	
CU-2	mitsubishi	MUZ-GL12NA	GRADE	FS06 IT	12,000	12,000	208-230	1	60	9	15		DC-INVERTER	R-410A	1/4	3/8	81	
CU-3	mitsubishi	PUMY-P60NKMU3	GRADE	FIRE	60,000	66,000	208-230	1	60	36	45		DC-INVERTER	R-410A	3/8	3/4	350	

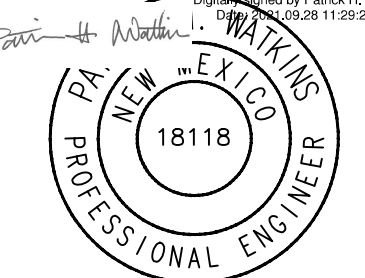
KITCHEN HOOD HOOD SCHEDULE																		
HOOD INFORMATION																		
HOOD NO.	MARK	MODEL NO.	HOOD DIMENSIONS (IN.)			HOOD CONSTR.	EXHAUST					SUPPLY		TOTAL WEIGHT LBS.				
			LENGTH	WIDTH	HEIGHT		TOTAL CFM	COLLAR(S)				MUA CFM	AC CFM					
								WIDTH	LENGTH	CFM	S.P							
1	KH-1	GGEW	120	54	24	430 SS	1,970	9	19	1,970	0.848	1576	0					
SUPPLY PLENUM INFORMATION																		
HOOD NO.	MARK	POS.	TYPE	SIZE (IN.)			INSULATED	DAMPER(S)	TOTAL CFM	COLLARS								
				LENGTH	WIDTH	HEIGHT				TYPE	MOUNTING	QTY	WIDTH	LENGTH	DIA.	CFM	S.P	VEL.
1	KH-1	FRONT	ASP	120	14	10	NO	NO	1576	MUA	FACTORY	2	10	22		788	0.11	516
HOOD OPTIONS																		
UL 762 LISTED W/OUT EXHAUST FIRE DAMPER																		
FACTORY MOUNTED EXHAUST COLLAR(S)																		
PERFORMANCE ENHANCING LIP (PEL) TECHNOLOGY																		
STANDING SEAM CONSTRUCTION FOR SUPERIOR STRENGTH																		

DISHWASHER HOOD SCHEDULE														
HOOD INFORMATION														
HOOD NO.	MARK	MODEL NO.	HOOD DIMENSIONS (IN.)			HOOD CONSTR.	EXHAUST					SUPPLY		TOTAL WEIGHT LBS.
			LENGTH	WIDTH	HEIGHT		TOTAL CFM	COLLAR(S)				MUA CFM	AC CFM	
								WIDTH	LENGTH	CFM	S.P.			
1	DH-1	GD2	42	42	24	430 SS	525	11	13	525	0.034	N/A	N/A	
HOOD FEATURES														
FACTORY MOUNTED EXHAUST COLLAR(S)														
STAINLESS STEEL FINISH FOR HIGHER CORROSION RESISTANCE														
0.5 INCH NPT STAINLESS STEEL DRAIN FITTING														

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Sheet Title:

MECHANICAL SCHEDULES

Sheet No.

M701

Date: Sep 28, 2021 11:13am User:PHWatkins Drawing File: H:\ABQ\8357\CAD\AutoCAD\8357 - Santa Fe County, Cerrillos Senior Center\Sheets\Plumbing\8357-P-001.dwg Layout Name: P001 PLUMBING LEGEND

PLUMBING SYMBOL LEGEND

MEDICAL GAS SYMBOLS		
SYMBOL	ABBREVIATION	DESCRIPTION
	MA	MEDICAL AIR
	N	NITROGEN
	NO	NITROUS OXIDE
	O	OXYGEN
	MV	MEDICAL VACUUM
	IA	INSTRUMENT AIR
	WAGD	WASTE ANESTHESIA GAS DISPOSAL
	DA	DENTAL AIR
	DV	DENTAL VACUUM
		EXISTING PIPING
		ALARM PANEL (IN WALL)
		MEDICAL VALVE BOX
		MEDICAL GAS DROP

PROCESS GASES		
SYMBOL	ABBREVIATION	DESCRIPTION
	CDA	COMPRESSED DRY AIR
	CO2	CARBON DIOXIDE
	AR	ARGON
	AC	ACETYLENE
	HE	HELIUM
	H	HYDROGEN
	LN	LIQUID NITROGEN
	LOX	LIQUID OXYGEN
	O	OXYGEN

SEISMIC NOTE

THE BUILDING HOUSES EMERGENCY VEHICLES AND SHALL BE CONSIDERED A RISK CATEGORY IV FACILITY. THE SEISMIC DESIGN CATEGORY IS D. THE MECHANICAL AND PLUMBING EQUIPMENT SHALL BE BRACED SUCH THAT THE FACILITY IS OPERATIONAL AFTER A SEISMIC EVENT, A SEISMIC ANALYSIS SHALL BE PERFORMED BY A REGISTERED STRUCTURAL ENGINEER AND BRACING SHALL BE PROVIDED AND INSTALLED PER THE DOCEUMENTS PROVIDED BY THAT ENGINEER. ACCEPTABLE SEISMIC PROVIDERS ARE VMC, VIBRO-ACOUSTICS AND AMBER BOOTH.

VALVE SYMBOLS	
SYMBOL	DESCRIPTION
	GATE VALVE
	GLOBE VALVE
	SOLENOID VALVE
	OS&Y VALVE
	BUTTERFLY VALVE
	BALL VALVE
	CHECK VALVE
	PLUG VALVE
	BALANCING VALVE/CIRCUIT SETTER MEASURING DEVICE
	WATER PRESSURE REDUCING VALVE
	2-WAY CONTROL VALVE
	3-WAY MODULATING CONTROL VALVE
	FUEL GAS PRESSURE REGULATOR
	PRESSURE RELIEF VALVE
	TEMPERATURE AND PRESSURE RELIEF VALVE
	DRAIN VALVE
	VALVE IN VERTICAL
	FLOW SWITCH
	DIAPHRAGM (PROCESS SYSTEMS)
	REDUCED PRESSURE BACKFLOW PREVENTER (RPBP)
	ATMOSPHERIC VACUUM BREAKER
	PRESSURE STYLE VACUUM BREAKER

SITE UTILITY SYMBOLS

DESCRIPTION	NEW	EXISTING
SANITARY SEWER		
COLD WATER SUPPLY		
FIRE PROTECTION		
NATURAL GAS		
STORM DRAIN		
IRRIGATION		
VALVE WITH VALVE BOX		
FIRE HYDRANT		
FIRE DEPARTMENT INLET CONNECTION		
CONSTRUCTION		
THRUST BLOCK		
CLEANOUT		
POWER POLE		
FENCING		
LIGHT POLE		
WATER METER		
NATURAL GAS METER		
GATE VALVE		
VALVE IN RISER		
POST INDICATOR VALVE		
REDUCED PRESSURE BACKFLOW PREVENTER		
SANITARY MANHOLE		
SLOPE AND LINEAL FOOTAGE		

SECTION SYMBOL	
	SECTION LETTER
	DRAWING NUMBER WHERE DETAILED

DETAIL SYMBOL	
	DETAIL NUMBER
	DRAWING NUMBER WHERE DETAILED

SECTION, ELEVATION, AND DETAIL TITLES

SECTION LETTER		SECTION
DRAWING NUMBER WHERE DETAILED		SCALE

DETAIL NUMBER		DETAIL
DRAWING NUMBER WHERE DETAILED		SCALE

ELEVATION LETTER		ELEVATION
DRAWING NUMBER WHERE DETAILED		SCALE

FIXTURE & EQUIPMENT SYMBOL

	LETTER REFER TO EQUIPMENT TYPE
	NUMBER REFERS TO SPECIFIC EQUIPMENT
	SYMBOL INDICATES FIXTURE/EQUIPMENT IDENTIFIED IN EQUIPMENT SCHEDULE

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
ANT	ACID NEUTRALIZING TANK
AVTR	ACID RESISTANT VENT THROUGH ROOF
B.C.	BALANCING COCK
BOP	BOTTOM OF PIPE
BTU	BRITISH THERMAL UNIT
BTUH	BTU PER HOUR
OWB	CLOTHES WASHER BOX
CFH	CUBIC FEET PER HOUR
CO	CLEANOUT
COTG	CLEANOUT TO GRADE
CP	CIRCULATION PUMP
CWV	COMBINATION WASTE AND VENT
DCO	DOUBLE CLEANOUT
DCOTG	DOUBLE CLEANOUT TO GRADE
DF	DRINKING FOUNTAIN
DN	DOWN
DS	DOWNSPOUT
DSN	DOWNSPOUT NOZZLE
EL	ELEVATION
EW	ELECTRIC WATER HEATER
EWC	ELECTRIC WATER COOLER
EEW	EMERGENCY EYEWASH
ES	EMERGENCY SHOWER
ESEW	EMERGENCY SHOWER EYE WASH
F	DEGREES FAHRENHEIT
FCO	FLOOR CLEANOUT
FFE	FINISHED FLOOR ELEVATION
FT	FEET
FOS	FUEL OIL SUPPLY
FOR	FUEL OIL RETURN
FOV	FUEL OIL VENT
FV	FLUSH VALVE
GD	GUTTER DRAIN
GI	GREASE INTERCEPTOR
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GWH	GAS WATER HEATER
HB	HOSE BIBB
HD	HEAD
HP	HORSEPOWER
IN	INCHES
INVT	INVERT
KW	KILOWATT
Mb	1,000 BTUH
MV	MIXING VALVE
NA	NOT APPLICABLE
NIPC	NOT IN PLUMBING CONTRACT
No. #	NUMBER
N.C.	NORMALLY CLOSED
N.O.	NORMALLY OPEN
OS&Y	OUTSIDE SCREW AND YOKE
PH	PHASE
Ph	POWERS OF HARDNESS
PSIG	POUNDS PER SQUARE INCH GAUGE
SP	STATIC PRESSURE
TD	TRENCH DRAIN
TYP	TYPICAL
YB	YARD BOX
YH	YARD HYDRANT
WCO	WALL CLEANOUT
WC	WATER CLOSET

SYMBOL	ABBREVIATION	DESCRIPTION
	AV	ACID VENT
	AW	ACID WASTE
	CA	COMPRESSED AIR
	CD	CONDENSATE DRAIN
	DCW	DOMESTIC COLD WATER
	DHW	DOMESTIC HOT WATER
	DHWR	DOMESTIC HOT WATER RETURN
	HW	140° DOMESTIC HOT WATER
	HWR	140° DOMESTIC HOT WATER RETURN
	ROS	REVERSE OSMOSIS SUPPLY
	ROR	REVERSE OSMOSIS RETURN
	MU	MAKE-UP WATER
	NPW	NON-POTABLE WATER
	V	VENT
	DIS	DEIONIZED WATER SUPPLY
	DIR	DEIONIZED WATER RETURN
	SAN	SANITARY SEWER
	GW	GREASE WASTE
	GV	GREASE VENT
	RD	STORM/ROOF DRAIN
	ORD	OVERFLOW ROOF DRAIN
	LPG	LIQUIFIED PETROLEUM GAS
	NG	NATURAL GAS-LOW PRESSURE
	NGM	NATURAL GAS-MEDIUM PRESSURE
	NGH	NATURAL GAS-HIGH PRESSURE
	IRR	IRRIGATION
	SCW	SOFT COLD WATER
	SHW	SOFT HOT WATER
	TWR (°F)	TEMPERED WATER RETURN (TEMP °F)
	TW (°F)	TEMPERED WATER (TEMP °F)
	PD	PUMPED DISCHARGE LINE
	ICW	INDUSTRIAL COLD WATER
	IHW	INDUSTRIAL HOT WATER
	IHW	INDUSTRIAL HOT WATER RETURN
	INW	INDUSTRIAL WASTE
	IA	INSTRUMENT COMPRESSED AIR
	IW	INDIRECT WASTE
	LA	LAB COMPRESSED AIR

SCHEMATIC SYMBOLS

SYMBOL	ABBREVIATION	DESCRIPTION
		KEYED NOTE
		POINT OF CONNECTION TO EXISTING
		EXISTING PIPE TO BE REMOVED
		NEW PIPING
		EXISTING PIPING TO REMAIN
		NEW PIPE CONNECTION TO EXISTING PIPING
		SLOPE OF PIPE
		DIRECTION OF FLOW
		DROP IN PIPE
		RISE IN PIPE
		TOP CONNECTION, 45° OR 90°
		BOTTOM CONNECTION, 45° OR 90°
		CAPPED OUTLET
		SIDE CONNECTION
		UNION
		FLANGED UNION
		ORIFICE UNION
		REDUCER OR INCREASER
		ECCENTRIC REDUCER
		PIPE GUIDE
		FLEXIBLE CONNECTION
		UNIVERSAL TEMPERATURE-PRESSURE FITTING (PETE'S PLUG)
		STRAINER WITH BLOWDOWN VALVE & HOSE BIBB
		THERMOMETER
		PRESSURE GAUGE AND GAUGE COCK
		AQUASTAT
		WATER HAMMER ARRESTOR
		TEST PLUG (PRESS/TEMP)
		PENETRATION
	MAV	MANUAL AIR VENT (MAV)
	AAV	AUTOMATIC AIR VENT (AAV)
	FS/FD/AD	FLOOR SINK, FLOOR DRAIN, AREA DRAIN
	FCO/COTG	FLOOR CLEANOUT/CLEANOUT TO GRADE
	DCOTG	TWO WAY OR DOUBLE CLEANOUT TO GRADE
	RD/OD/DD	ROOF DRAIN/OVERFLOW DRAIN/DECK DRAIN
	TP	TRAP PRIMER WITH ACCESS PANEL
	VTR	VENT THROUGH ROOF
	AG	AIR GAP FITTING
	(WH) (HB)	WALL HYDRANT, HOSE BIBB

PERMIT & BID SET
07-25-2022

NOTE: NOT ALL ABBREVIATIONS OR SYMBOLS APPLY TO THIS PROJECT

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CERILLOS SENIOR CENTER
AND TURQUOISE TRAIL # 3
FIRE STATION
LOT 3, SECTION 17, T.14N., R.8E., N.M.P.M.
SANTA FE COUNTY, NEW MEXICO

Current Status:
100% CONST. DOCS

REVISIONS

NO.	DESCRIPTION	DATE

Drawn by: GMC

Checked by: -

Date: 09-27-21

Sheet Title:

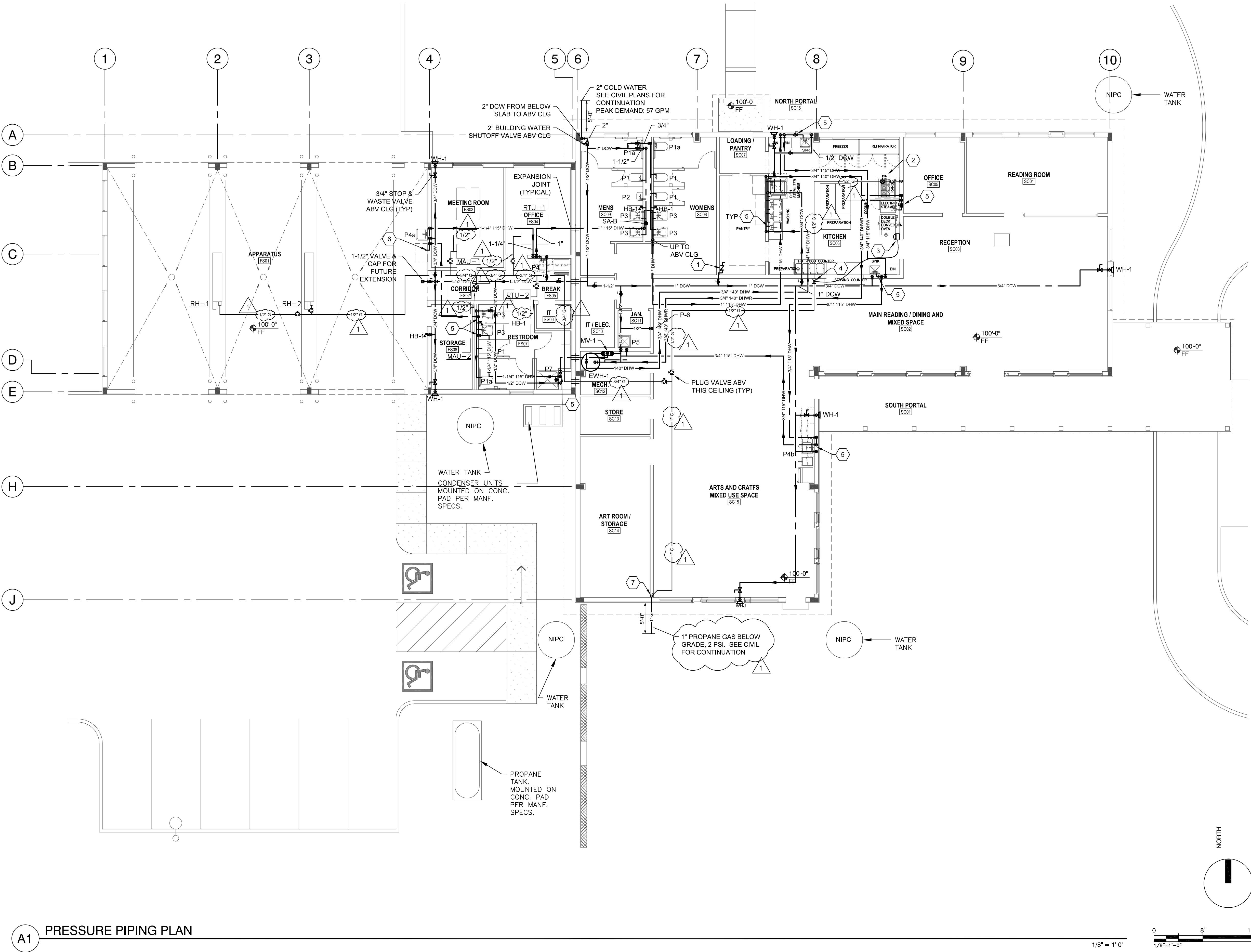
PLUMBING
SYMBOLS &
ABBREVIATIONS

Job Number:

Sheet No.

P001

Date: Oct 21, 2021 - 7:27am User:GMChirazzzi Drawing File: H:\BQ\8357\CAD\AutoCAD\8357 - Santa Fe County, Cerrillos Senior Center\Sheets\Plumbing\8357-PP101.dwg - Last Saved By: GMChirazzzi Oct 21, 2021 - 7:18am Layout Name: PP101



A1 PRESSURE PIPING PLAN

GENERAL NOTES

- ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH ALL APPLICABLE CODES, STANDARDS, AND THE AUTHORITY HAVING JURISDICTION.
- REFER TO ARCHITECTURAL FLOOR PLANS FOR EXACT LOCATION AND HEIGHTS OF ALL PLUMBING FIXTURES BEFORE ROUGH-IN OR INSTALLATION OF PIPE. PLUMBING FIXTURES SHALL BE MOUNTED AT HEIGHTS SHOWN ON ARCHITECTURAL ELEVATION DRAWINGS.
- ALL PIPING IN FINISHED ROOMS SHALL BE CONCEALED IN FURRED CHASE UNLESS OTHERWISE NOTED ON THIS DRAWING.
- NO PIPING SHALL BE INSTALLED ABOVE ELECTRICAL PANELBOARDS OR SWITCHGEAR PER NATIONAL ELECTRICAL CODE ARTICLE 384.
- PROVIDE HINGED ACCESS DOORS FOR VALVES, WATER HAMMER ARRESTERS, ISOLATION VALVES LOCATED IN INACCESSIBLE CEILINGS AND CHASES. DOORS FURNISHED PER ARCHITECTURAL SPECIFICATIONS AND PURCHASED AND INSTALLED PER DIVISION 22. ACCESS DOOR RATING SHALL MATCH THE CLASSIFICATION OF WALLS AND CEILING FIRE RATING. COORDINATE COLOR AND TYPE OF ACCESS DOOR WITH ARCHITECTURAL PRIOR TO PERFORMING WORK.
- REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF ALL FIRE RATED AND OR SMOKE RATED WALLS AND ASSEMBLIES. PIPING PENETRATIONS OF FIRE AND SMOKE RATED WALLS AND LISTED ASSEMBLIES SHALL BE CAULKED AIRTIGHT TO THE ADJACENT STRUCTURE BY MEANS OF U.L. LISTED FIRE PROOF CAULKING MATERIAL.
- COORDINATE ALL PLUMBING PIPING WITH ALL OTHER TRADES AND PROVIDE NECESSARY RISERS TO AVOID CONFLICTS AND TRY TO MAINTAIN REQUIRED EQUIPMENT ACCESS AND SERVICEABILITY.
- DRAWINGS ARE DIAGRAMMATIC. PIPING LOCATIONS HAVE BEEN SHOWN FOR CLARITY AND DO NOT NECESSARILY REFLECT THE EXACT LOCATION OF PIPE. COORDINATE ROUTING WITH ALL OTHER TRADES BEFORE INSTALLATION OR MAKEUP OF PIPE. PROVIDE COORDINATION DRAWINGS PER SPECIFICATIONS.
- PLUMBING FLOOR AND ROOF PENETRATIONS ARE SUBJECT TO CHANGE. COORDINATE WITH ARCHITECTURAL DRAWINGS FOR FINAL PLUMBING AND EQUIPMENT LOCATIONS.
- ALL PIPING SHOWN IS AT OR ABOVE THE CEILING OF THIS PLAN UNLESS OTHERWISE NOTED.
- DUE TO THE SMALL SCALE OF THE DRAWINGS IT IS IMPOSSIBLE TO SHOW ALL VALVES AND APPURTENANCES ON THE PLANS. THE PLUMBING CONTRACTOR SHALL PROVIDE A FULL PORT LINE-SIZED ISOLATION VALVE ON EACH DOMESTIC HOT AND COLD WATER LINE TO A PLUMBING FIXTURE WHETHER SHOWN OR NOT.
- THE DOMESTIC HOT WATER SYSTEM SHALL COMPLY WITH SECTION C404 OF THE 2018 INTERNATIONAL ENERGY CONSERVATION CODE, INCLUDING TABLE C404.2 MINIMUM PERFORMANCE OF WATER-HEATING EQUIPMENT, AND SECTION C404.5.1 MAXIMUM ALLOWABLE PIPE LENGTH METHOD FOR ALL RUNOUTS TO FIXTURES.
- EXTERIOR WATER TANKS AND CISTERNS ARE NOT PART OF THE PLUMBING CONTRACT.
- REFER TO PLUMBING ISOMETRIC RISERS FOR PIPE SIZING NOT SHOWN IN PLAN VIEW.

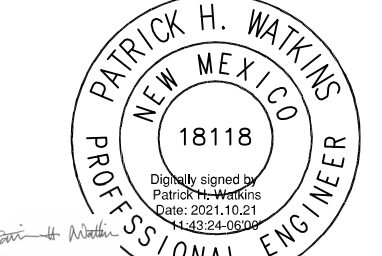
SHEET KEYED NOTES

- 1/2" DCW TO ICE MACHINE. SEE ICE MACHINE WATER SUPPLY DETAIL ON SHEET P-501.
- ELECTRONIC GAS SHUTOFF VALVE TO BE INTERLOCKED WITH HOOD FIRE SUPPRESSION SYSTEM. COORDINATE EXACT VALVE LOCATION WITH HOOD MANUFACTURER.
- ASCO #173A20 SURFACE MOUNTED MUSHROOM TYPE EMERGENCY GAS SHUTOFF ACTUATOR.
- ASCO SERIES 8215 EXPLOSION PROOF GAS SOLENOID VALVE CONTROLLED BY EMERGENCY GAS SHUTOFF ACTUATOR.
- PROVIDE ISOLATION VALVE ON DOMESTIC HOT WATER STUBOUT TO FIXTURE.
- EXTEND 1/2" 140°F HOT WATER TO WASHER / EXTRACTOR.
- DROP 2" GAS TO BELOW GRADE. PROVIDE SEALING NUT SLEEVE OR OTHER SUITABLE PROTECTION FOR PIPING PASSING THROUGH OR IN PROXIMITY TO FOUNDATION.

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**CERILLOS SENIOR CENTER
AND TURQUOISE TRAIL # 3
FIRE STATION**

LOT 3, SECTION 17, T.14N., R.8E., N.M.P.M.
SANTA FE COUNTY, NEW MEXICO

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REVISIONS

NO.	REVISION	DATE
1	ADDENDUM 2	10-20-21

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Checked by: PHW

Date: 09-27-21

Sheet Title:

**PLUMBING
PRESSURE
PIPING PLAN**

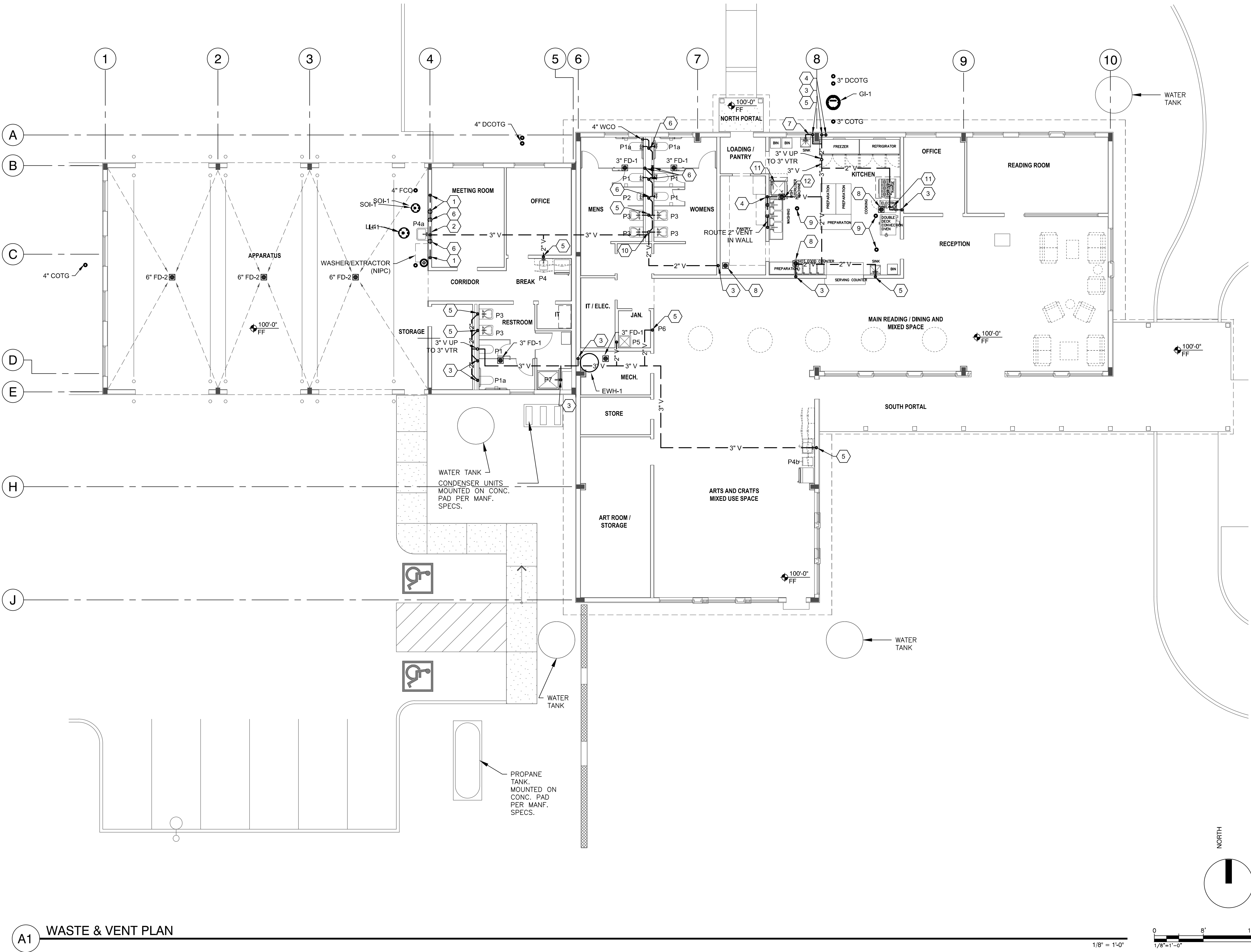
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Sheet No.

PP101

PERMIT & BID SET
07-25-2022

Date: Sep 27, 2021 - 3:51pm User:GMChurazzi Drawing File: H:\ABQ\8357\CAD\AutoCAD\8357 - Santa Fe County, Cerrillos Senior Center\Sheets\Plumbing\8357-PL102.dwg - Last Saved By: GMChurazzi Sep 16, 2021 - 11:33am Layout Name: PL102 WASTE & VENT PLAN



A1 WASTE & VENT PLAN

GENERAL NOTES

- A. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH ALL APPLICABLE CODES, STANDARDS, AND THE AUTHORITY HAVING JURISDICTION.
- B. REFER TO ARCHITECTURAL FLOOR PLANS FOR EXACT LOCATION AND HEIGHTS OF ALL PLUMBING FIXTURES BEFORE ROUGH-IN OR INSTALLATION OF PIPE. PLUMBING FIXTURES SHALL BE MOUNTED AT HEIGHTS SHOWN ON ARCHITECTURAL ELEVATION DRAWINGS.
- C. ALL PIPING IN FINISHED ROOMS SHALL BE CONCEALED IN FURRED CHASES UNLESS OTHERWISE NOTED ON THIS DRAWING.
- D. NO PIPING SHALL BE INSTALLED ABOVE ELECTRICAL PANELBOARDS OR SWITCHGEAR PER NATIONAL ELECTRICAL CODE ARTICLE 384.
- E. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF ALL FIRE RATED AND OR SMOKE RATED WALLS AND ASSEMBLIES. PIPING PENETRATIONS OF FIRE AND SMOKE RATED WALLS AND LISTED ASSEMBLIES SHALL BE CAULKED AIRTIGHT TO THE ADJACENT STRUCTURE BY MEANS OF U.L. LISTED FIRE PROOF CAULKING MATERIAL.
- F. COORDINATE ALL PLUMBING WORK WITH OTHER TRADES AND PROVIDE NECESSARY OFFSETS TO AVOID CONFLICTS AND TO MAINTAIN REQUIRED EQUIPMENT ACCESS AND SERVICEABILITY.
- G. DRAWINGS ARE DIAGRAMMATIC. PIPING LOCATIONS HAVE BEEN SHOWN FOR CLARITY AND DO NOT NECESSARILY REFLECT THE EXACT LOCATION OF PIPE. COORDINATE ROUTING WITH ALL OTHER TRADES BEFORE INSTALLATION OR MAKEUP OF PIPE. PROVIDE COORDINATION DRAWINGS PER SPECIFICATIONS.
- H. PLUMBING FLOOR PENETRATIONS ARE SUBJECT TO CHANGE. COORDINATE WITH ARCHITECTURAL DRAWINGS FOR FINAL PLUMBING AND EQUIPMENT LOCATIONS.
- I. ALL SINKS, LAVATORIES, URINALS, AND WALL HUNG FIXTURES SHALL HAVE WALL CLEANOUTS LOCATED BELOW THE FIXTURE AND IN THE SAME ROOM. WALL CLEANOUTS NOT REQUIRED AT ELECTRIC WATER COOLERS AND DRINKING FOUNTAINS.
- J. ALL P-TRAPS TO FLOOR SINKS AND FLOOR DRAINS SHALL BE SUPPLIED WITH A TRAP SEAL GUARD.
- K. ALL PIPING SHOWN IS ABOVE THE FLOOR OF THIS PLAN UNLESS OTHERWISE NOTED.
- L. ALL SANITARY AND WASTE PIPING 4" AND LARGER SHALL SLOPE AT 1% MINIMUM. ALL SANITARY AND WASTE PIPING 3" AND SMALLER SHALL SLOPE AT 2%.
- M. FLOOR CLEANOUTS ARE NOT PERMITTED IN FINISHED AREAS. PROVIDE CLEANOUTS AS SHOWN ON THE DRAWINGS AND IN ACCORDANCE WITH CODE REQUIREMENTS. COORDINATE THE EXACT LOCATION OF ALL CLEANOUTS IN FINISHED AREAS WITH THE ARCHITECT.
- N. ALL ROOF PENETRATIONS MUST BE MADE WITH DEK-TITE OR SIMILAR FLASHINGS.
- O. ALL PENETRATIONS THROUGH ROOF IN EXPOSED STRUCTURE AREAS SHALL BE FLASHED ON ROOF SIDE WITH APPROPRIATE CURB/FLASHING. THE UNDERSIDE OF THE ROOF SHALL BE FLASHED FOR A CLEAN LOOK THROUGH THE VINYL FACED INSULATION.
- P. ALL HANGERS AND UNI-STRUT SHALL BE GALVANIZED. NO EXCEPTIONS.
- Q. EXTERIOR WATER TANKS AND CISTERNS SHOWN ON THE CONSTRUCTION DOCUMENTS ARE NOT PART OF THE PLUMBING CONTRACT.

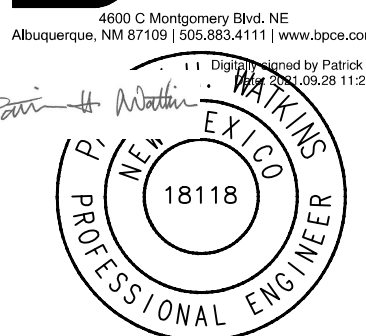
SHEET KEYED NOTES

- 1. 3" VENT UP TO MINIMUM 12" ABOVE FLOOR, ROUTE IN WALL AS SHOWN.
- 2. 3" VENT UP TO ABOVE CEILING.
- 3. 2" VENT FROM BELOW SLAB TO ABOVE THIS CEILING.
- 4. 2" VENT FROM BELOW SLAB TO MINIMUM 12" ABOVE FLOOR. EXTEND 2" VENT IN WALL AND CONNECT AS SHOWN.
- 5. 2" WASTE DOWN, 2" VENT UP.
- 6. 2" VENT UP FROM BELOW.
- 7. OFFSET 2" TRAP ARM BELOW WINDOW.
- 8. 3" FLOOR SINK FS-2.
- 9. FLOOR CLEANOUT.
- 10. 4" WASTE DOWN, 4" VENT UP TO 4" VTR.
- 11. KITCHEN EQUIPMENT VENDOR SHALL PROVIDE DRAINLINE COOLING KIT AT THIS LOCATION.
- 12. COORDINATE EXACT LOCATION OF FLOOR SINK FS-2 WITH DISHWASHER DRAIN LOCATION. KITCHEN EQUIPMENT VENDOR TO PROVIDE DRAIN COOLER ON DISHWASHER.

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CERILLOS SENIOR CENTER
AND TURQUOISE TRAIL # 3
FIRE STATION

LOT 3, SECTION 17, T.14N., R.8E., N.M.P.M.
SANTA FE COUNTY, NEW MEXICO

Current Status:

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REVISIONS

NO.	DESCRIPTION	DATE

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GMC

Checked by:

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Date:

09-27-21

Sheet Title:

PLUMBING
WASTE & VENT
PLAN

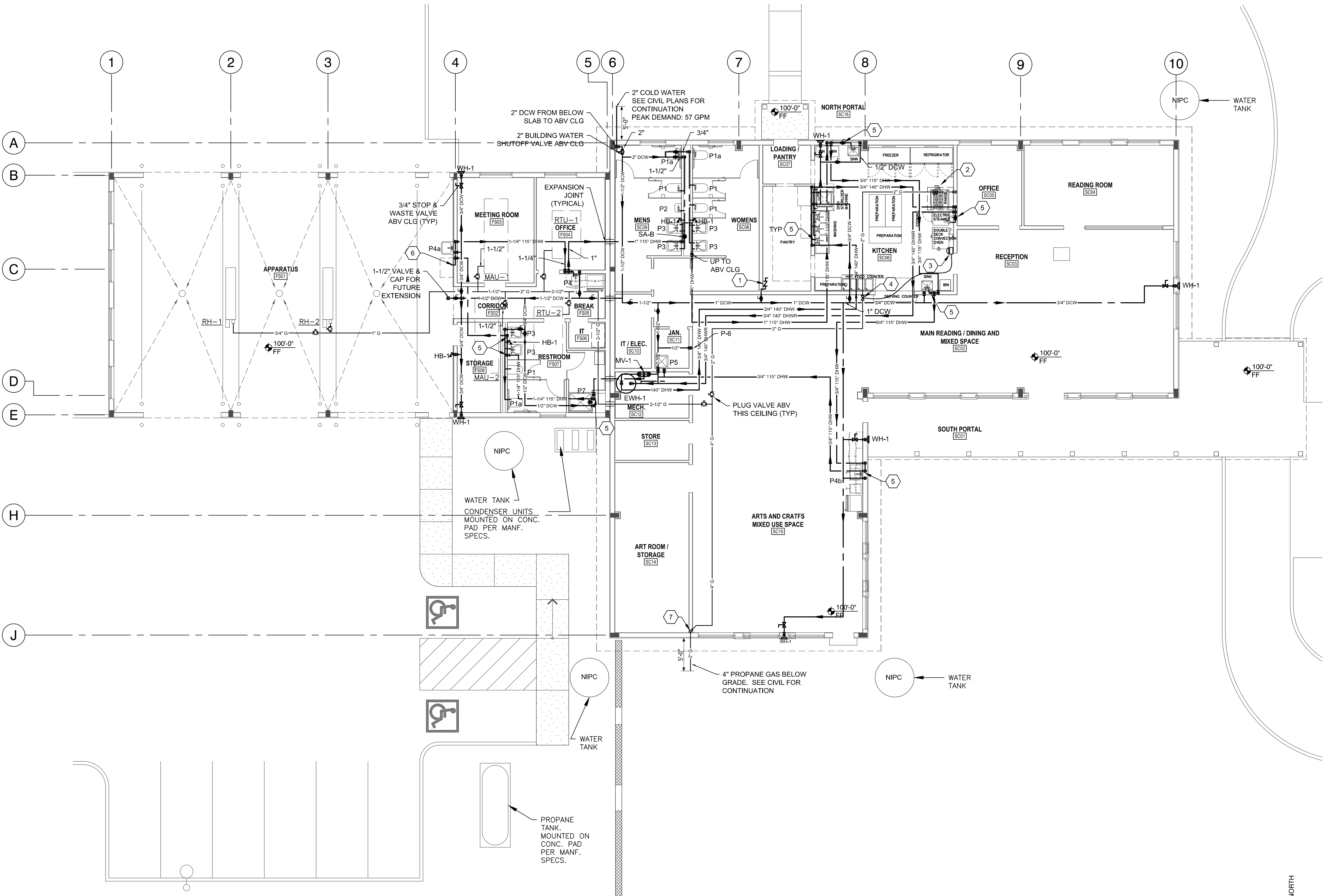
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Sheet No.

PL102

PERMIT & BID SET
07-25-2022

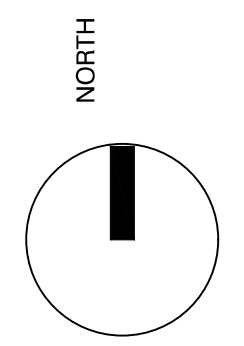
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PRESSURE PIPING PLAN



A1 PRESSURE PIPING PLAN

1/8" = 1'-0"

0 8' 16'
1/8" = 1'-0"



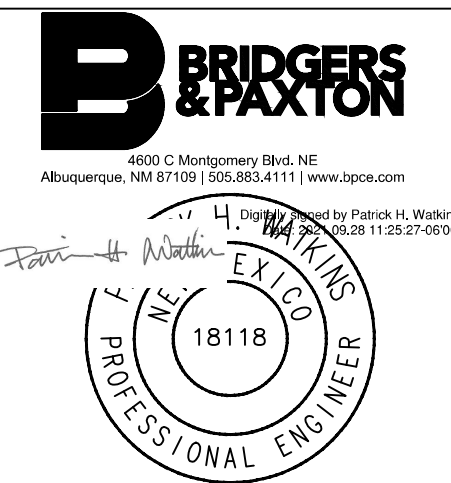
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SHEET KEYED NOTES

- 1/2" DCW TO ICE MACHINE. SEE ICE MACHINE WATER SUPPLY DETAIL ON SHEET P-501.
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AND TURQUOISE TRAIL # 3
FIRE STATION**
LOT 3, SECTION 17, T.14N., R.8E., N.M.P.M.
SANTA FE COUNTY, NEW MEXICO

Current Status:
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Date: 09-27-21

Sheet Title:
**PLUMBING
PRESSURE
PIPING PLAN**

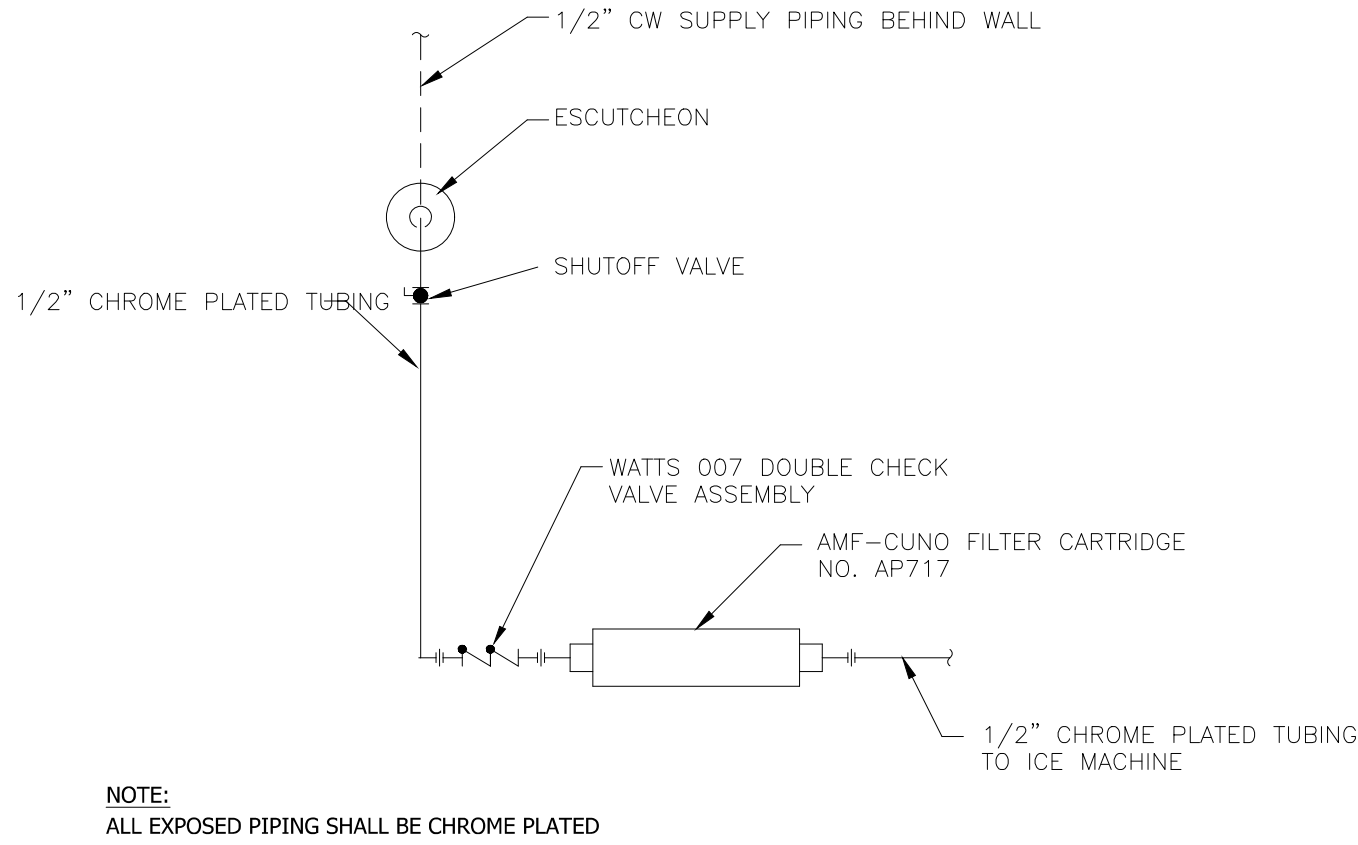
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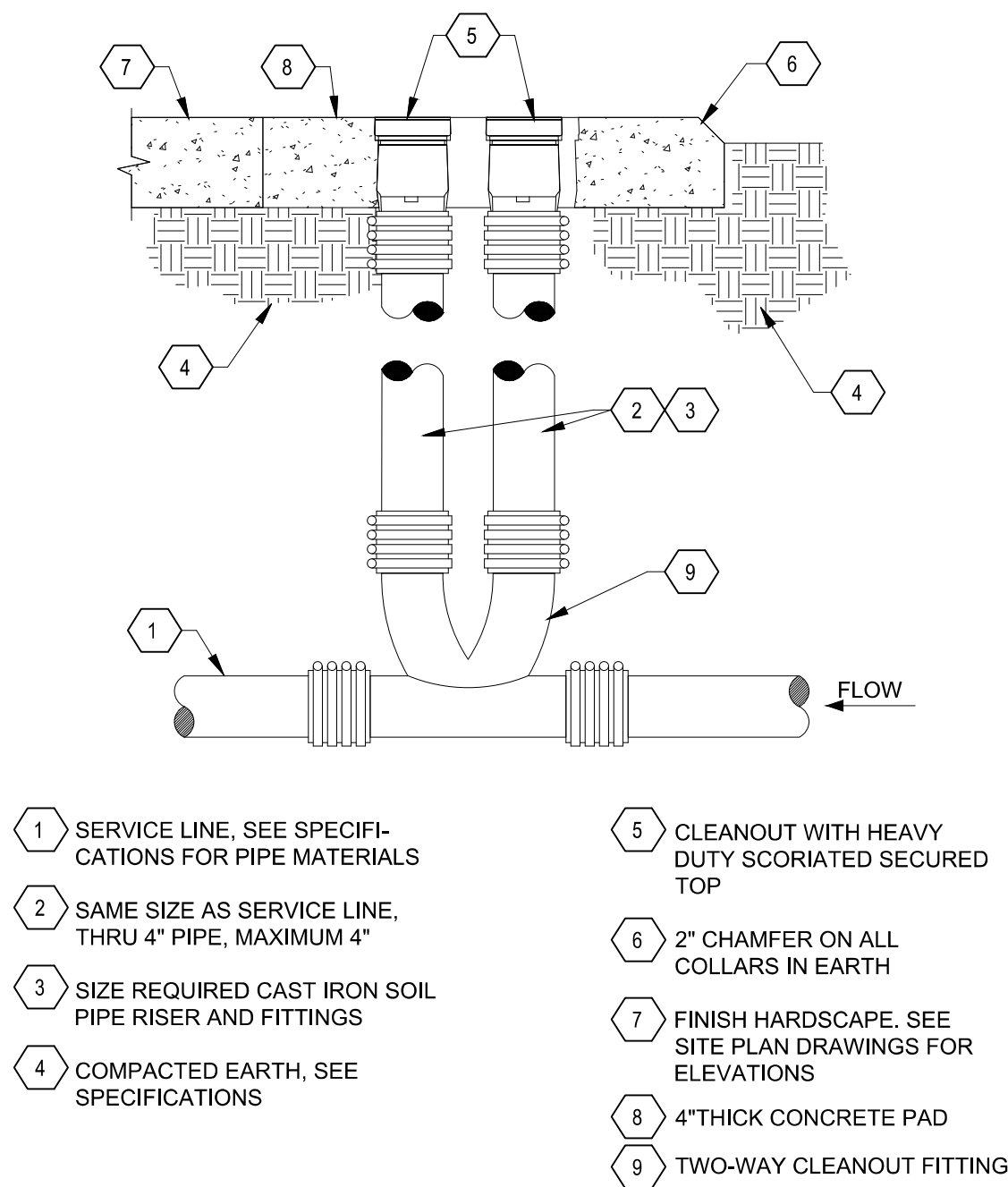
PP101

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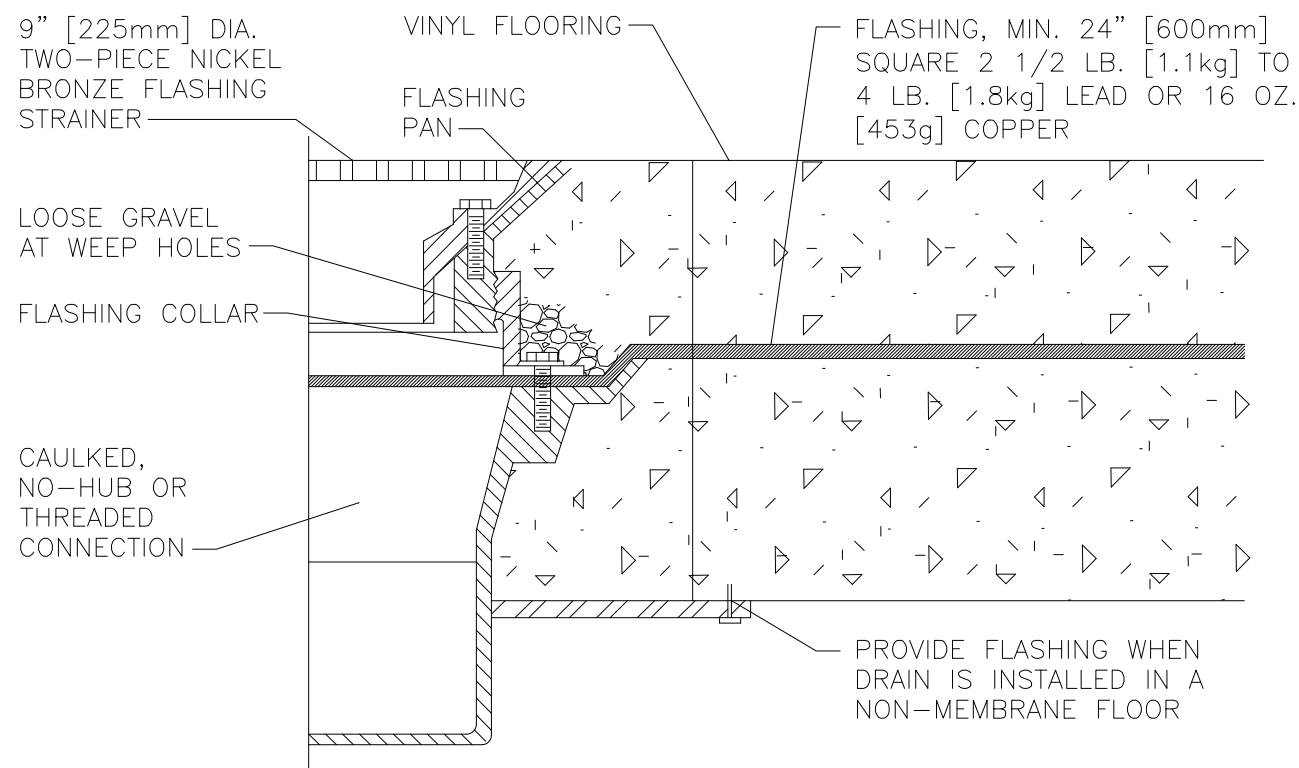
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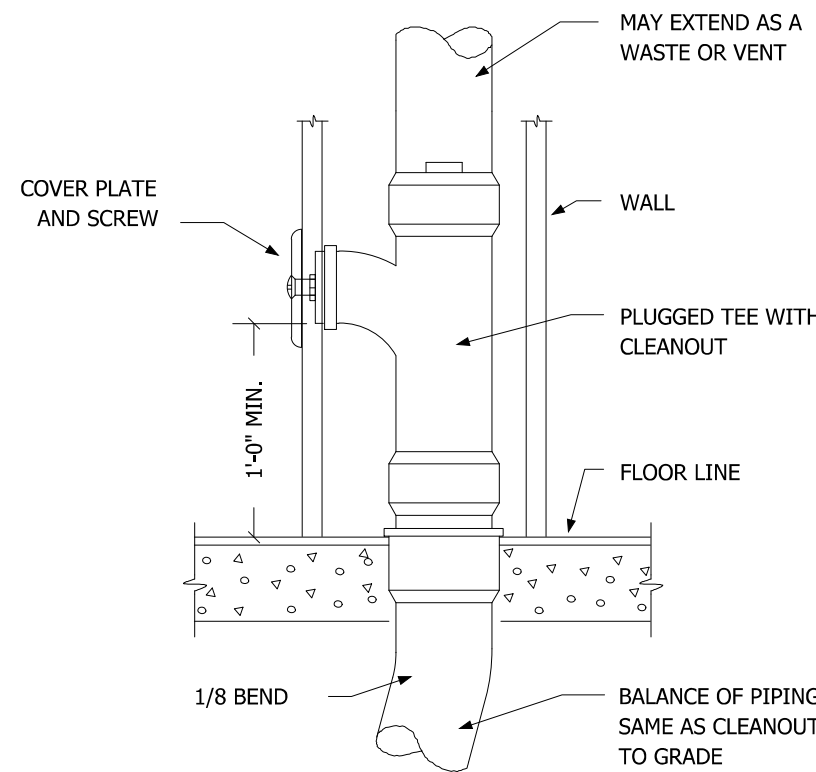
E2 ICE MACHINE WATER SUPPLY DETAIL
NTS



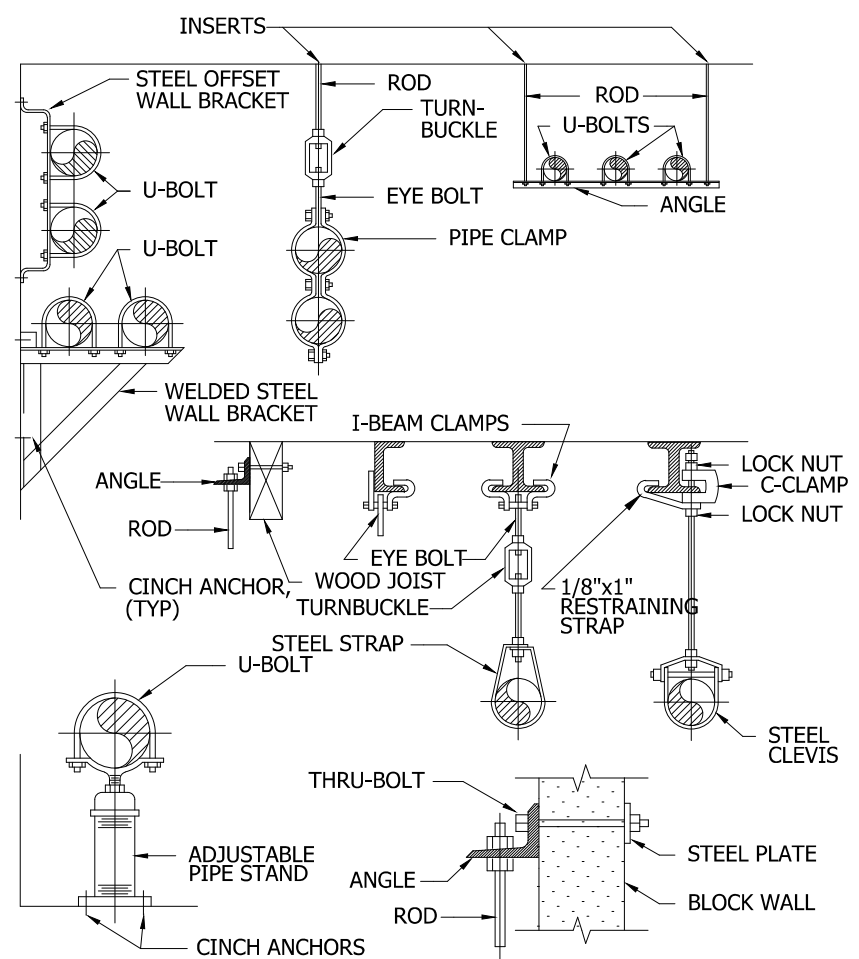
C2 DOUBLE CLEANOUT TO GRADE DETAIL
NTS



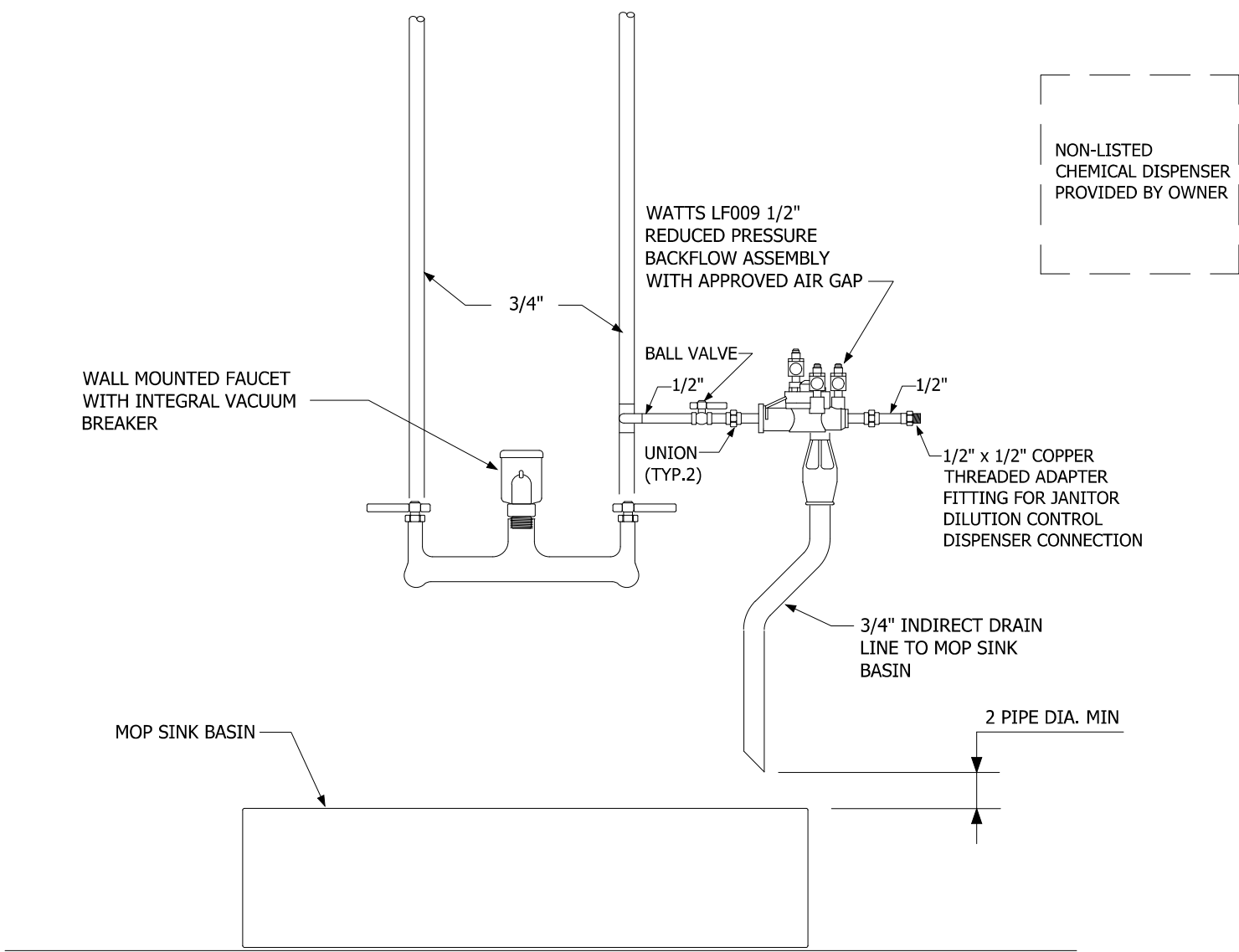
A2 FLOOR DRAIN DETAIL
NTS



E3 WALL CLEANOUT DETAIL
NTS

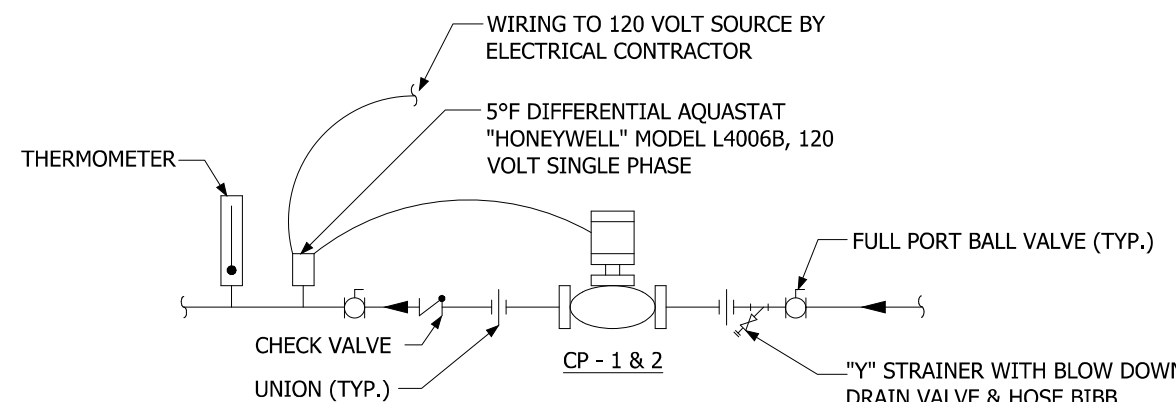


C3 TYPICAL PIPE SUPPORT DETAILS
NTS



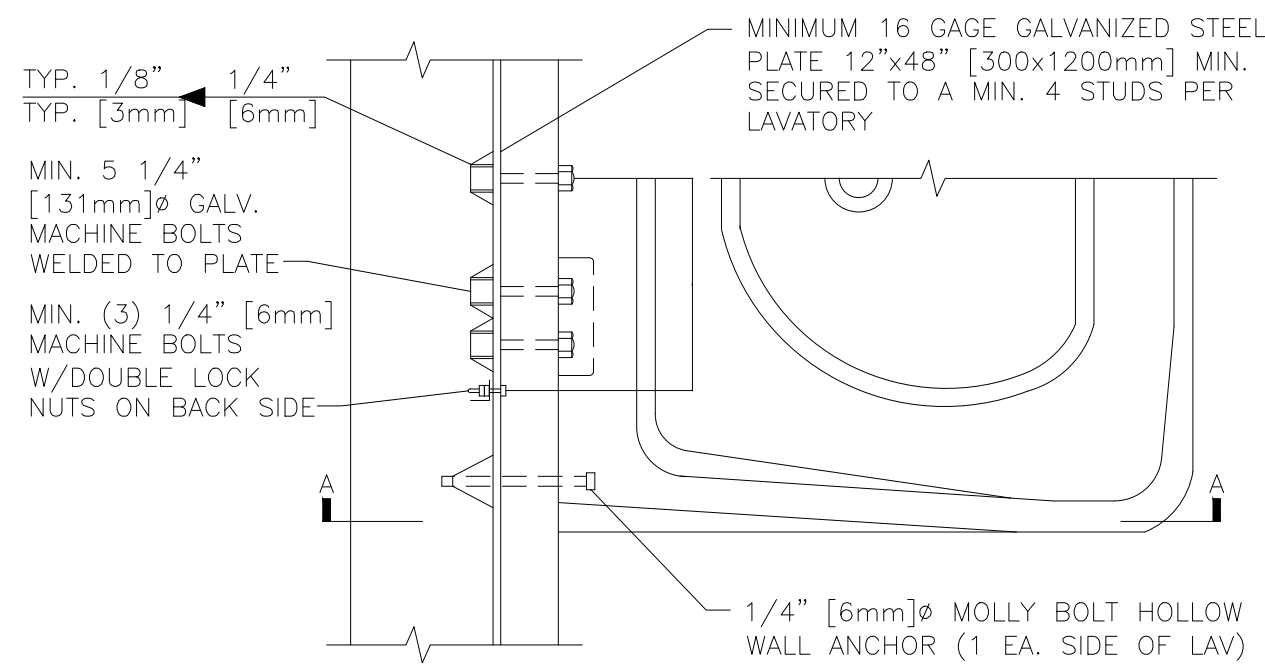
A4 MOP BASIN PIPING DETAIL
NTS

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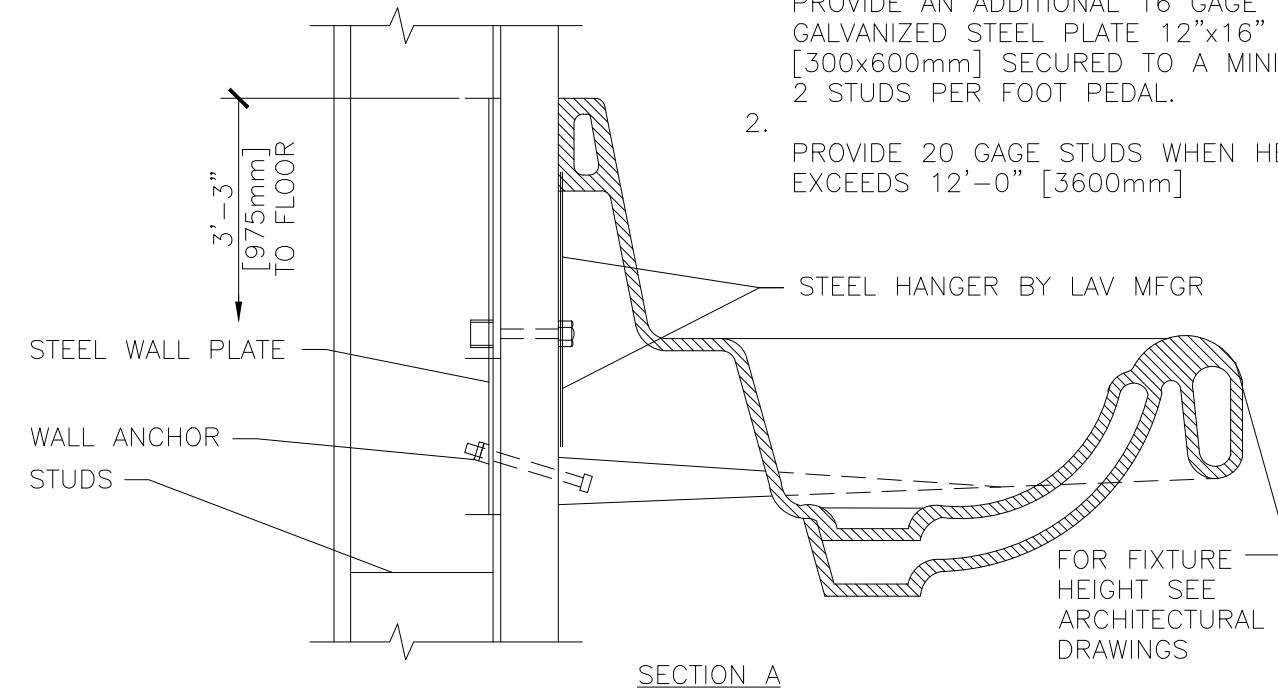


NOTES:
1. SEE PLUMBING PLANS FOR PIPE SIZES.
2. SEE PLUMBING PUMPS SCHEDULE FOR ADDITIONAL PUMP INFORMATION.

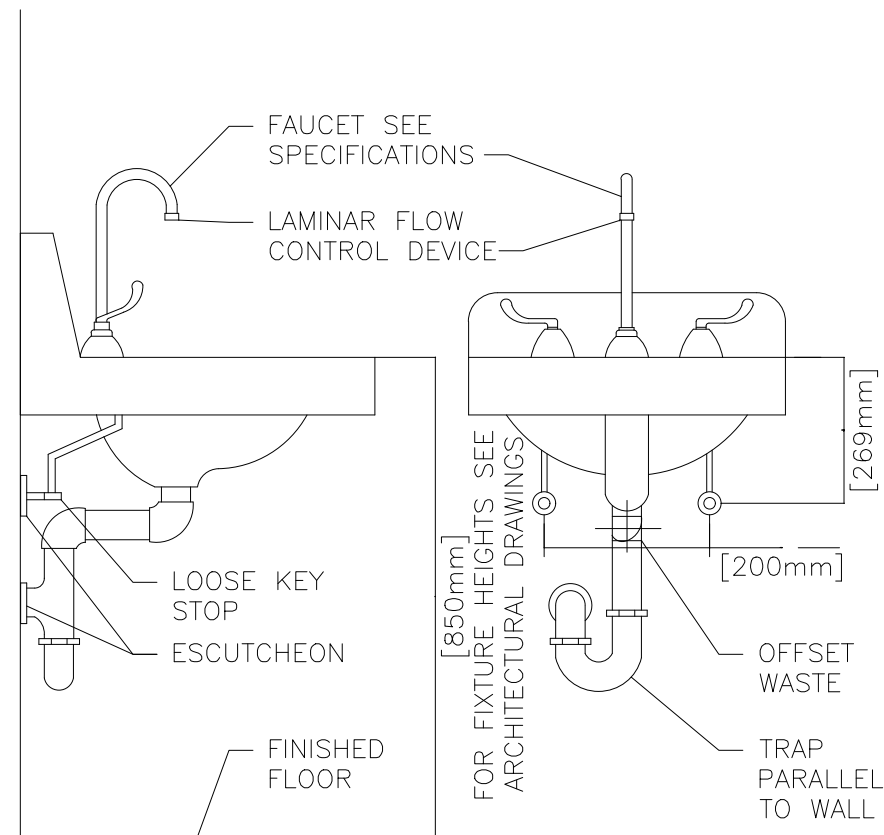
E5 HOT WATER RECIRCULATING PUMP DETAIL
NTS



NOTE:
1. AT LAVS WITH FOOT PEDAL CONTROLS PROVIDE AN ADDITIONAL 16 GAGE GALVANIZED STEEL PLATE 12"x16" [300x600mm] SECURED TO A MINIMUM OF 2 STUDS PER FOOT PEDAL.
2. PROVIDE 20 GAGE STUDS WHEN HEIGHT EXCEEDS 12'-0" [3600mm]

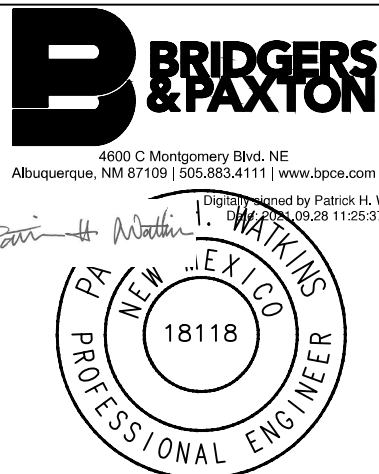


C5 LAVATORY MOUNTING DETAIL
NTS



A5 TYPICAL WHEELCHAIR LAVATORY DETAIL
NTS

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CERILLOS SENIOR CENTER
AND TURQUOISE TRAIL # 3
FIRE STATION
LOT 3, SECTION 17, T.14N., R.8E., N.M.P.M.
SANTA FE COUNTY, NEW MEXICO

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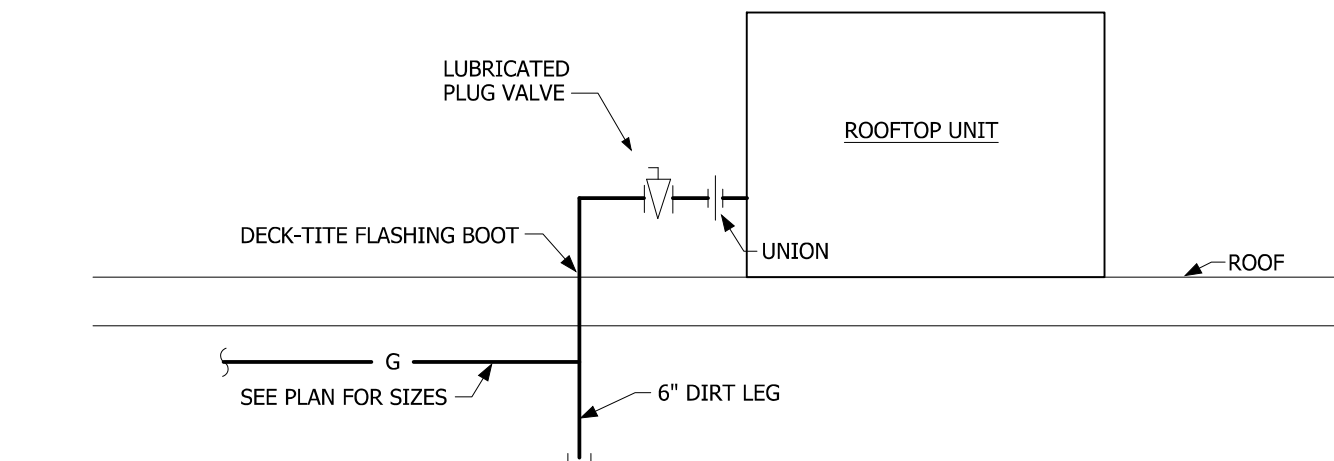
PLUMBING
DETAILS

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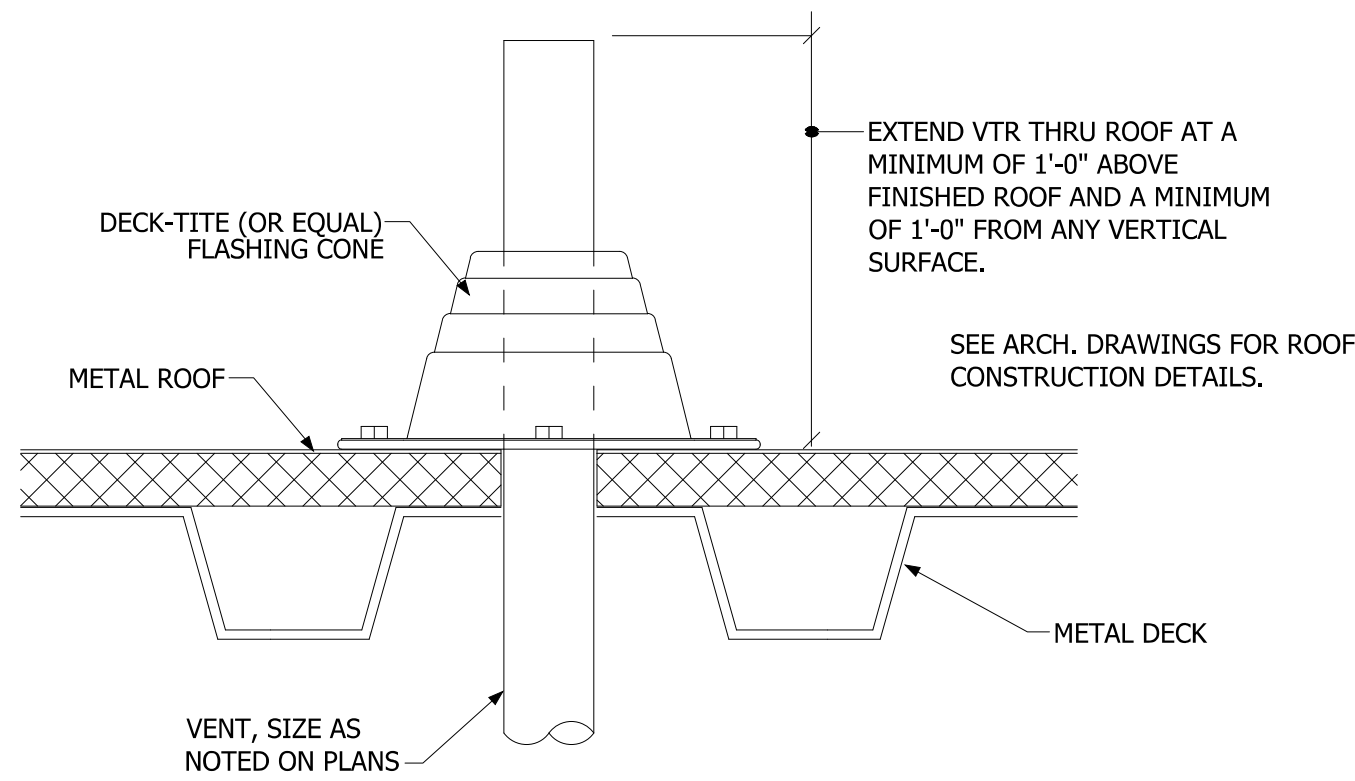
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P501

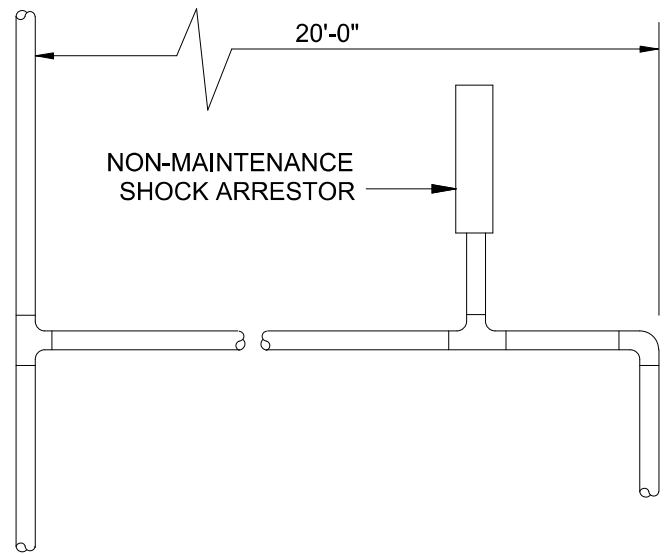
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C1 GAS EQUIPMENT CONNECTION DETAIL
NTS NOTE: ALL ROOF PENETRATIONS SHALL BE MADE USING DECK-TITE OR EQUAL FLASHING BOOTS.



A1 VENT THRU ROOF DETAIL
NTS NOTE: ALL ROOF PENETRATIONS SHALL BE MADE USING DECK-TITE OR EQUAL FLASHING BOOTS.



A3 SHOCK ARRESTOR DETAIL
NTS
SHOCK ARRESTORS:
SIOUX CHIEF 650 SERIES PISTON-TYPE SHOCK ARRESTER, COPPER TUBE, MAX WORKING PRESSURE TEMPERATURE 150°F, MAX PRESSURE 350 PSIG. ANSI/ASSE1010, 2004 CERTIFIED. THE CONTRACTOR SHALL SIZE AND INSTALL SHOCK ARRESTORS AS SHOWN ON THE DRAWINGS AND AS PRESCRIBED BY SIOUX CHIEF AND/OR PDI STANDARD WH-201.
FOR BRANCH LINES EXCEEDING 20'-0" IN LENGTH, AN ADDITIONAL SHOCK ARRESTER SHALL BE INSTALLED AT THE 20' MARK. THIS SHOCK ARRESTOR SHALL BE SIZED FOR THE FIXTURE UNIT DEMAND UPSTREAM OF THIS POINT.
PROVIDE ACCESS PANEL(S) FOR ALL SHOCK ARRESTORS. ROUTE PIPING AS REQUIRED TO ENSURE THAT ACCESS PANEL IS FULLY OPERATIONAL.
TABLE:
NUMBER FIXTURE UNIT RATING CONNECTION SIZE SIOUX CHIEF SYMBOL
SA-A 1 - 11 1/2" A
SA-B 12 - 32 3/4" B
SA-C 33 - 60 1" C
SA-D 61 - 113 1-1/4" D
SA-E 114 - 154 1-1/2" E
SA-F 155 - 330 2" F

GREASE INTERCEPTOR SIZING

DESIGN CRITERIA

PLUMBING CODE:
1. 2015 UNIFORM PLUMBING CODE, SECTION 1014.2

SIZING METHODOLOGY

STEP 1. FLOW RATE TO GREASE INTERCEPTOR

Fixture flow rate: (cu in / 231) = gal x 0.75 / 2 min = 2 min flow rate

GREASE PRODUCING FIXTURE	DIMENSIONS	QUANTITY	CU IN.	FLOW RATE
3 COMPARTMENT SINK	21" X 21" X 14" (3)	1	18,522	30 GPM
DISHWASHER	N/A	1	N/A	12.5 GPM
TOTAL:				42.5 GPM

STEP 2. GREASE PRODUCTION

Servings per day x grease production value x days between pumping = Grease Output

MEALS SERVED PER DAY: 100

GREASE PRODUCTION VALUE: 0.0455 lbs per serving (Cafeteria - Full Serve: High / Flatware)

DAYS BETWEEN PUMP-OUT = 90

100 x 0.0455 x 90 = 409.5 lbs of FOG

GREASE INTERCEPTOR REQUIRED:

Flow Rate: 50 gpm

Grease Capacity: 440 lbs

Liquid Capacity: 65 gal

SAND/OIL INTERCEPTOR SIZING

CRITERIA

PLUMBING CODE:

1. 2015 UNIFORM PLUMBING CODE, SECTION 1017.2

SPACE PROTECTED:

1. 3-BAY FIRE APPARATUS GARAGE, 1,897 SQUARE FEET.

2. ONE FLOOR DRAIN PER BAY (3 DRAINS TOTAL).

3. STORAGE ONLY, NO SERVICE WILL BE PERFORMED.

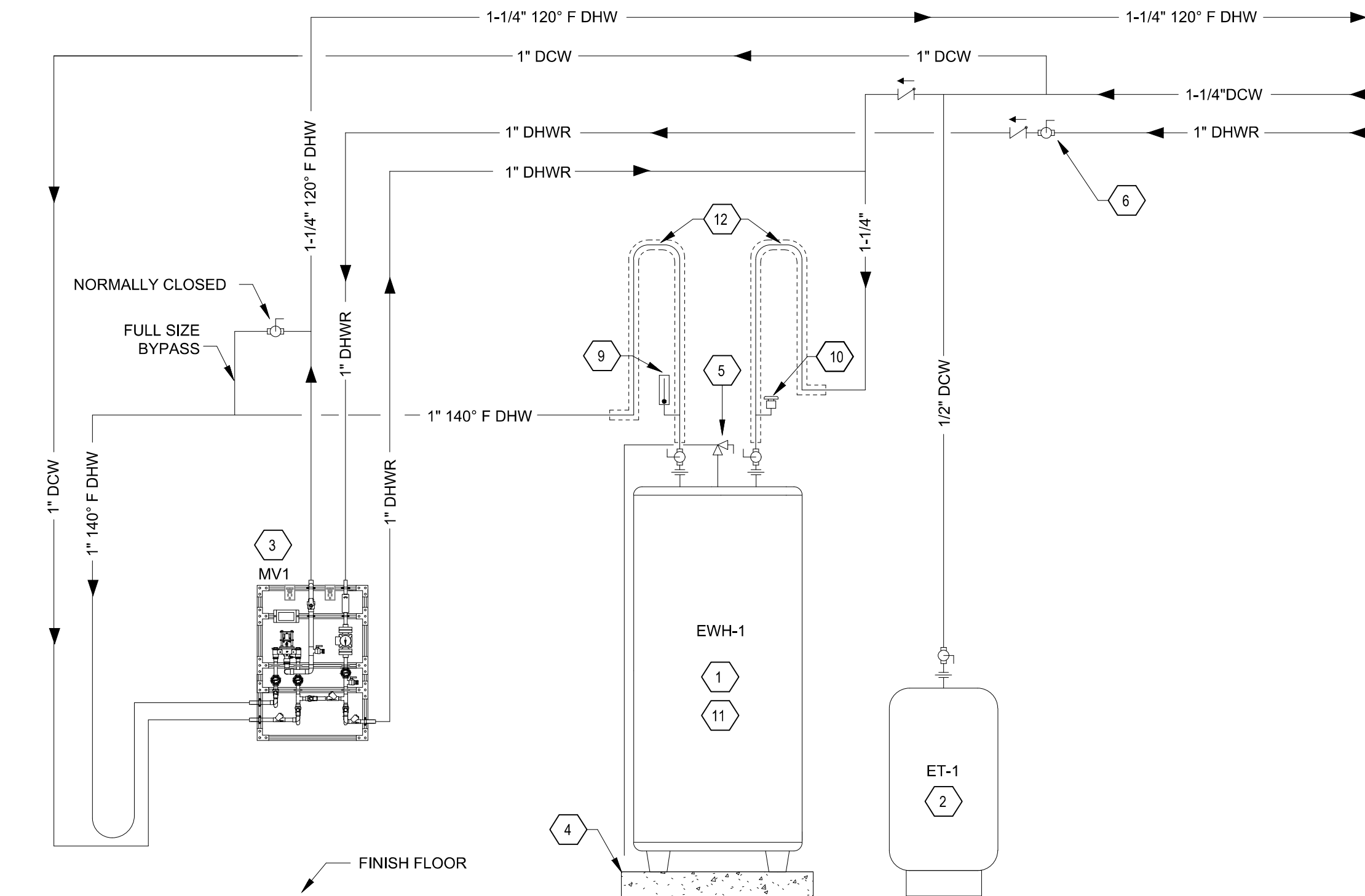
SIZING METHODOLOGY

1. SINCE THIS IS A VEHICLE STORAGE (NOT SERVICE) AREA, THE INTERCEPTOR WILL BE SIZED ACCORDING TO UPC SECTION 1016.0, SAND INTERCEPTORS. OIL AND/OR FLAMMABLE LIQUID LEAKAGE IS NOT EXPECTED BUT THE INTERCEPTOR IS DESIGNED TO CONTAIN ANY SUCH LIQUIDS.

2. DRAINAGE SYSTEM WILL BE DESIGNED AS A COMBINATION WASTE AND VENT. PER UPC SECTION 910.4, EACH WASTE PIPE AND TRAP SHALL BE NOT LESS THAN TWO PIPE SIZES EXCEEDING SIZES REQUIRED BY CHAPTER 7. SINCE 5" PIPE IS NOT COMMONLY AVAILABLE THIS DRAINAGE SYSTEM WILL BE 6" IN SIZE WITH A 3" VENT.

4. BASED ON PROJECT USAGE, GPM FLOW FOR EACH FLOOR DRAIN IS EXPECTED TO BE MINIMAL. THEREFORE THREE (3) 6" FLOOR DRAINS = 10 DFU / 5 GPM PER TRAP X 3 TRAPS = 15 GPM PEAK FLOW.

5. SPECIFIED SAND / OIL INTERCEPTOR SHALL BE RATED AT NOT LESS THAN 25 GPM CAPACITY.



- 1 ELECTRIC WATER HEATER. SEE SCHEDULE FOR MORE INFORMATION.
- 2 EXPANSION TANK. SEE SCHEDULE FOR MORE INFORMATION.
- 3 THERMOSTATIC MIXING VALVE. SEE SCHEDULE FOR MORE INFORMATION. INSTALL PIPING IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- 4 4" CONCRETE HOUSEKEEPING PAD.
- 5 ASME T&P RELIEF VALVE, PIPE FULL SIZE TO FLOOR.
- 6 BALL VALVE (TYPICAL).

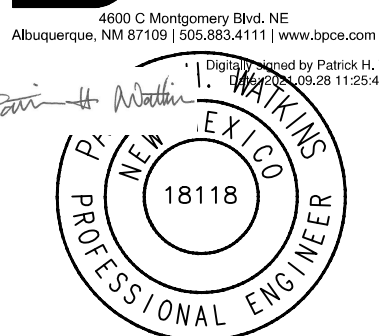
- 7 CHECK VALVE (TYPICAL).
- 8 UNION (TYPICAL).
- 9 THERMOMETER (TYPICAL).
- 10 WATTS LFN36 VACUUM RELIEF VALVE.
- 11 IF REQUIRED, PROVIDE SIEMENS STRAPPING PER UPC 508.2 OR IPC 502.4.
- 12 PROVIDE HEAT TRAP PER 2018 IECC SECTION C404.4. FIRST 8 FEET OF INLET AND OUTLET PIPING SHALL BE INSULATED IN ACCORDANCE WITH 2018 IECC SECTION C404.4.

A5 DOMESTIC WATER HEATER DETAIL
NTS

PERMIT & BID SET
07-25-2022

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CERILLOS SENIOR CENTER
AND TURQUOISE TRAIL # 3
FIRE STATION
LOT 3, SECTION 17, T.14N., R.8E., N.M.P.M.
SANTA FE COUNTY, NEW MEXICO

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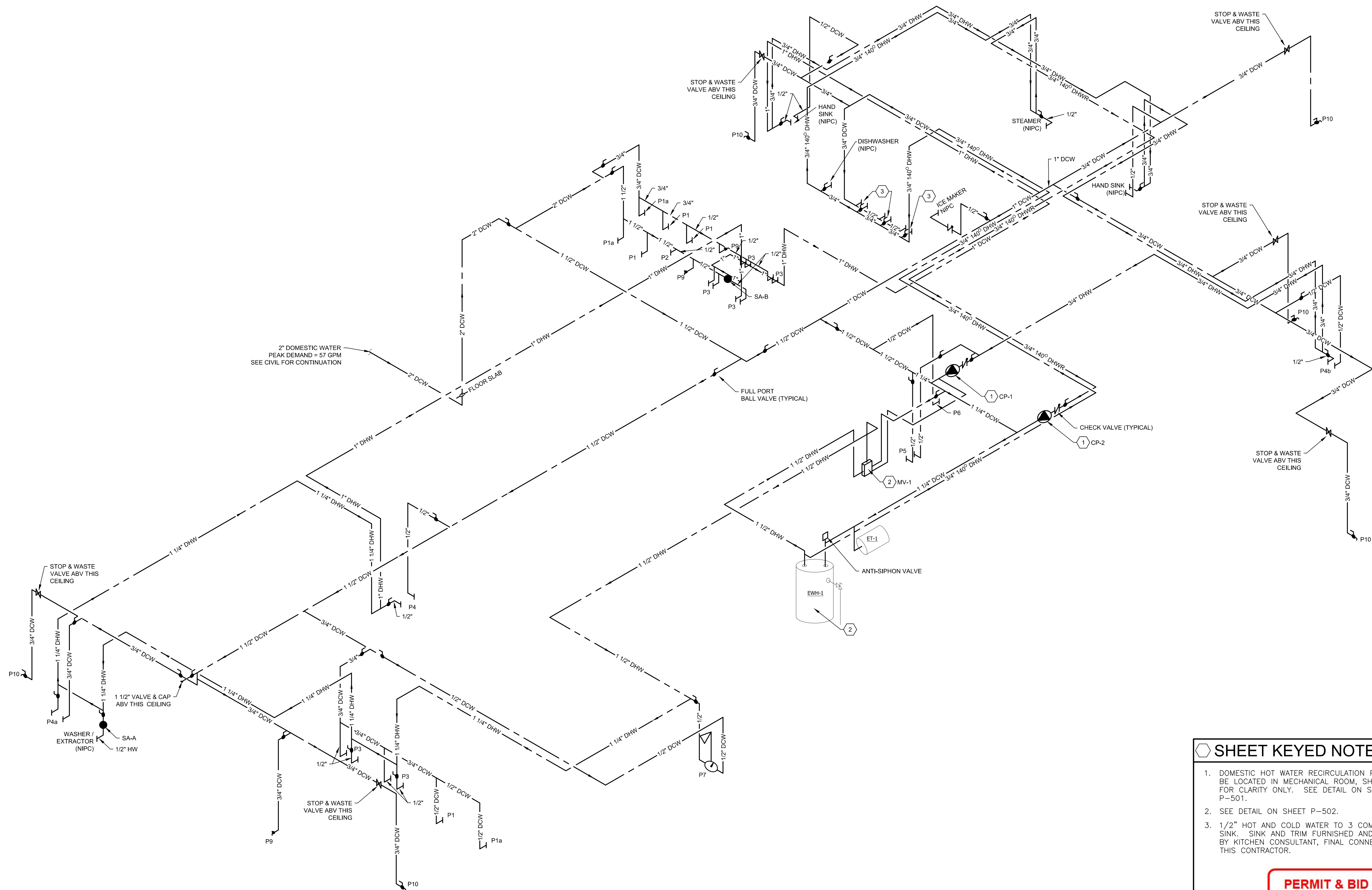
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PLUMBING
DETAILS

Job Number:

Sheet No.

P502

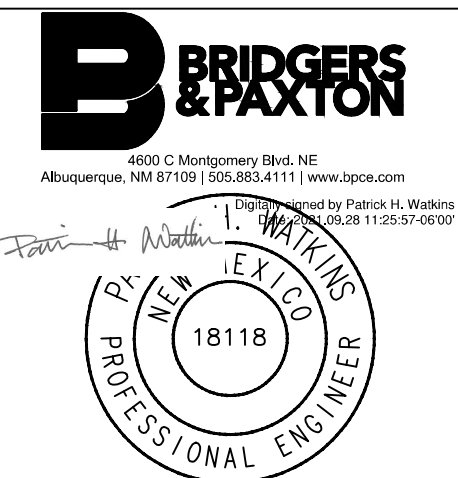


 SHEET KEYED NOTES

1. DOMESTIC HOT WATER RECIRCULATION PUMP TO BE LOCATED IN MECHANICAL ROOM, SHOWN HERE FOR CLARITY ONLY. SEE DETAIL ON SHEET P-501.
2. SEE DETAIL ON SHEET P-502.
3. 1/2" HOT AND COLD WATER TO 3 COMPARTMENT SINK. SINK AND TRIM FURNISHED AND INSTALLED BY KITCHEN CONSULTANT, FINAL CONNECTIONS BY THIS CONTRACTOR.

PERMIT & BID SET
07-25-2022

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CERILLOS SENIOR CENTER
AND TURQUOISE TRAIL # 3
FIRE STATION

LOT 3, SECTION 17, T.14N., R.8E., N.M.P.M.
SANTA FE COUNTY NEW MEXICO

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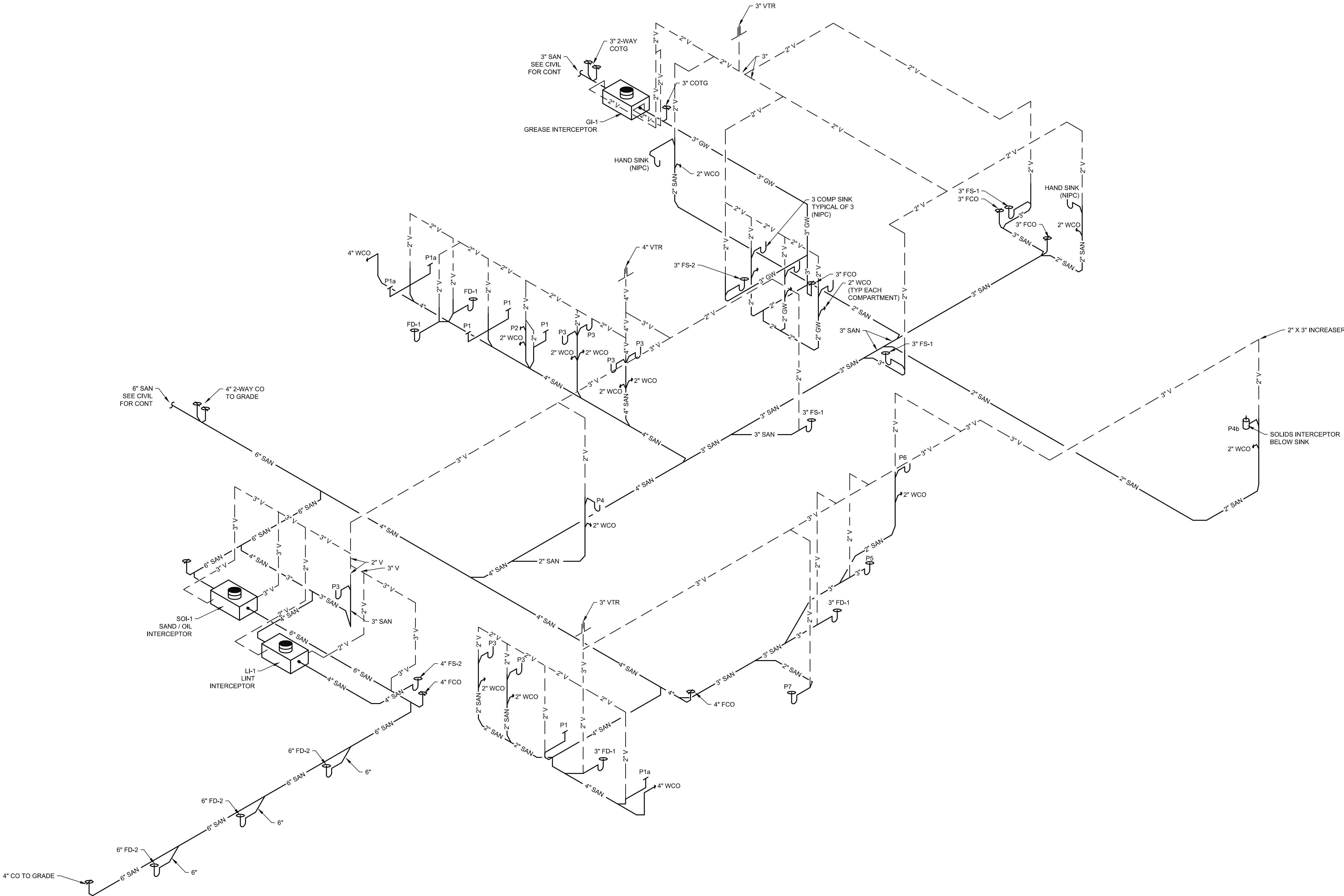
DOMESTIC WATER RISER DIAGRAM

Job Number:

Sheet No.

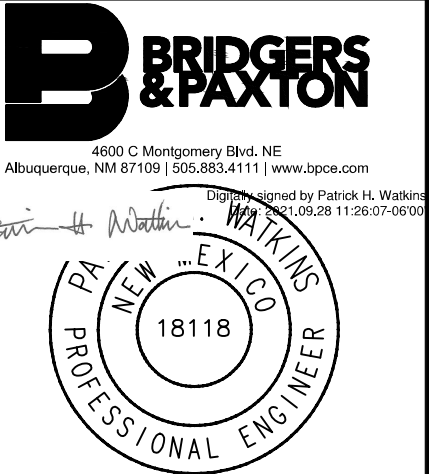
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CERILLOS SENIOR CENTER
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LOT 3, SECTION 17, T.14N., R.8E., N.M.P.M.
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SANITARY, WASTE
& VENT RISER
DIAGRAM

Job Number:

Sheet No.

P602

PERMIT & BID SET
07-25-2022

MAKE UP AIR UNIT SCHEDULE																							
GENERAL UNIT DATA					FAN DATA				GAS HEATING DATA					EVAPORATIVE COOLING DATA				ELECTRICAL DATA				OPERATING WEIGHT (LBS)	NOTES
MANUFACTURER	MODEL NO.	AREA SERVED	FILTER	AIRFLOW (CFM)	RPM	ESP (IN. W.G.)	BHP	HP	TYPE	EAT (°F)	LAT (°F)	INPUT (MBH)	OUTPUT (MBH)	EAT		LAT		VOLTS	PHASE	HZ	MCA		
														DB (°F)	WB (°F)	DB (°F)	WB (°F)						
GREENHECK	IGX-P112-H12-MF-G	KITCHEN	MERV 8	1,600	1764	0.5	0.33	3/4	INDIRECT	4	94	149.1	119.3	90	61	63	61	208-230	3	60	7.9	1,410	
GREENHECK	IGX-P112-H12-MF-G	APPARATUS	MERV 8	1,600	1764	0.5	0.33	3/4	INDIRECT	4	95	149.1	119.3	90	61	63	61	208-230	3	60	7.9	1,410	

MAKE UP AIR UNIT SCHEDULE CONT.									
SYMBOL NO.	SOUND POWER BY OCTAVE BAND (DB)								
		64 HV	125 HZ	250 HZ	500HZ	1K HZ	2K HZ	4K HZ	8K HZ
MAU-1	Inlet	89	81	76	72	71	69	64	56
MAU-2	Inlet	89	81	76	72	71	69	64	56

FAN SCHEDULE																			NOTES					
GENERAL UNIT DATA											ELECTRICAL DATA				INLET SOUND POWER BY OCTAVE BAND (DB)									
SYMBOL NO.	MANUFACTURER	MODEL NO.	SERVICE / LOCATION	FAN TYPE	AIRFLOW (CFM)	ESP (IN. W.G.)	FAN RPM	MOTOR BHP	MOTOR HP	OPERATING WEIGHT (LBS)	DAMPER TYPE	VOLT	PHASE	HZ	FLA	63 HZ	125 HZ	250 HZ	500 HZ	1K HZ	2K HZ	4K HZ	8K HZ	
KEF-1	GREENHECK	USGF-160XP-15	KITCHEN	DIRECT	2000	1.25	2449	1.16	1 1/2	219		208	3	60	6.5	79	79	81	83	79	77	72	67	
EF-1	GREENHECK	CUE-09S-VG	DISHWASHER	DIRECT	600	0.5	1642	0.12	1/8	36		115	1	60	2.2	74	75	74	67	57	59	54	34	
EF-2	GREENHECK	G-143-VG	APPARATUS	DIRECT	1800	0.5	1245	0.33	3/4	58		115	1	60	8.8	78	76	76	70	63	62	57	51	
EF-3	GREENHECK	G-090-VG	RESTROOMS	DIRECT	650	0.5	1676	0.12	1/8	32		115	1	60	2.2	81	80	74	67	62	59	51	44	

ENERGY RECOVERY VENTILATOR SCHEDULE														
SYMBOL NO.	MANUFACTURER & MODEL NO.	AREA SERVED	SUPPLY FAN		EXHAUST FAN		ENERGY HX PERFORMANCE		ELECTRICAL				WEIGHT (LBS)	NOTES
			AIRFLOW (CFM)	ESP (IN. W.G.)	AIRFLOW (CFM)	ESP (IN. W.G.)	SUMMER	WINTER	VOLTS	PHASE	HZ	FLA		
							EFF. %	EFF. %						
ERV-1	RENEWAREA EV130	FS ADMIN	105	0.5	105	0.5	54	69	120.0	1.0	60.0	1.3	75.0	PROVIDE BACKDRAFT DAMPERS, PTL CONTROLLER AND LOUVERED WALL VENTS

GENERAL UNIT DATA					INDOOR UNIT					SEER	RATED COOLING CAPACITY		HEATING RATED CAPACITY (BTUH)	WEIGHT (LBS)	NOTES
SYMBOL NO.	MANUFACTURER	MODEL NO.	LOCATION	AREA SERVED	SUPPLY AIRFLOW (CFM)	MOTOR DATA					CAPACITY (BTUH)	AMBIENT DB (DEG F)			
FC-1	DAIKIN	MSZ-GL-12NA	WALL MOUNTED	SC10 IT/ELEC	400	208-230	1	60	1	23.1	12,000	95	12,000	22	
FC-2	MITSUBISHI	MSZ-GL-12NA	WALL MOUNTED	FS06 IT	400	208-230	1	60	1	23.1	12,000	95	12,000	22	
AC-1	MITSUBISHI	PLFY-P18NFMU-E	CEILING CASSETTE	MEETING FS03	460	208-230	1	60	0.5		18,000	95	20,000	35	
AC-2	MITSUBISHI	PLFY-P12NFMU-E	CEILING CASSETTE	OFFICE FS04	335	208-230	1	60	0.29		12,000	95	13,500	35	
AC-3	MITSUBISHI	PLFY-P12NFMU-E	CEILING CASSETTE	RESTROOM FS07	335	208-230	1	60	0.29		12,000	95	13,500	35	
AC-4	MITSUBISHI	PKFY-P08NLMU-E	WALL MOUNTED	STORAGE FS08	235	208-230	1	60	0.24		8,000	95	9,000	30	

VRF OUTDOOR UNITS SCHEDULE																		
GENERAL UNIT DATA							ELECTRICAL DATA						COMPRESSORS				WEIGHT (LBS)	NOTES
SYMBOL NO.	MANUFACTURER	MODEL NO.	LOCATION	AREA SERVED	COOLING RATED CAPACITY (BTU/H)	HEATING RATED CAPACITY (BTU/H)	VOLT	PHASE	HZ	MCA	MOCp	FLA	COMPRESSOR TYPE	REFR. TYPE	LIQUID LINE	SUCTION LINE		
CU-1	MITSUBISHI	MUZ-GL12NA	GRADE	SC10 ITE/TEEC	12,000	12,000	208-230	1	60	9	15		DC-INVERTER	R-410A	1/4	3/8	81	
CU-2	MITSUBISHI	MUZ-GL12NA	GRADE	FS06 IT	12,000	12,000	208-230	1	60	9	15		DC-INVERTER	R-410A	1/4	3/8	81	
CU-3	MITSUBISHI	PUMY-P60NMKU3	GRADE	FIRE	60,000	66,000	208-230	1	60	36	45		DC-INVERTER	R-410A	3/8	3/4	350	

RADIANT HEAT HEATER SCHEDULE									
GENERAL UNIT DATA				HEATING DATA	ELECTRICAL DATA				NOTES
SYMBOL NO.	MANUFACTURER	MODEL NO.	LOCATION	NOMINAL INPUT @ SEA LEVEL (MBH)	VOLT	PHASE	HZ	FLA	
RH-1	SPACE RAY	CB30-15-P5	APARATUS BAY	30	120	1	60	2.6	PROVIDE FACTORY THERMOSTAT AND WIRING FOR A COMPLETE AND FUNCTIONAL INSTALLATION
RH-2	SPACE RAY	CB30-15-P5	APARATUS BAY	30	120	1	60	2.6	PROVIDE FACTORY THERMOSTAT AND WIRING FOR A COMPLETE AND FUNCTIONAL INSTALLATION

<

DISHWASHER HOOD SCHEDULE														
HOOD INFORMATION														
HOOD NO.	MARK	MODEL NO.	HOOD DIMENSIONS (IN.)			HOOD CONSTR.	EX-HAUST					SUPPLY		TOTAL WEIGHT LBS.
			LENGTH	WIDTH	HEIGHT		TOTAL CFM	COLLAR(S)				MUA CFM	AC CFM	
								WIDTH	LENGTH	CFM	S.P.			
1	DH-1	GD2	42	42	24	430 SS	525	11	13	525	0.034	N/A	N/A	
HOOD FEATURES														
FACTORY MOUNTED EX-HAUST COLLAR(S)														
STAINLESS STEEL FINISH FOR HIGHER CORROSION RESISTANCE														
0.5 INCH NPT STAINLESS STEEL DRAIN FITTING														

GRILLE AND DIFFUSER SCHEDULE										
SYMBOL NO.	MANUFACTURER & MODEL NO.	TYPE	FRAME STYLE	FACE DIMENSIONS (IN)	NECK DIMENSIONS (IN)	AIRFLOW RANGE (CFM)	PRESSURE DROP (IN. W.G.)	MAXIMUM NC	NOTES	
SD-1	PRICE SPD, TYPE 3	SUPPLY DIFFUSER	LAY-IN CEILING	12X12 24X24	6	91-130	0.02-0.06	24	PROVIDE OPPOSED BLADE DAMPER	
	PRICE SPD, TYPE 3	SUPPLY DIFFUSER	LAY-IN CEILING	12X12 24X24	8	131-210	0.02-0.06	28		
	PRICE SPD, TYPE 3	SUPPLY DIFFUSER	LAY-IN CEILING	24X24	10	211-320	0.03-0.06	30		
	PRICE SPD, TYPE 3	SUPPLY DIFFUSER	LAY-IN CEILING	24X24	12	321-420	0.03-0.06	30		
	PRICE SPD, TYPE 3	SUPPLY DIFFUSER	LAY-IN CEILING	24X24	14	421-530	0.04-0.06	30		
PRICE SPD, TYPE 3	SUPPLY DIFFUSER	LAY-IN CEILING	24X24	15	531-630	0.03-0.06	30			
SD-2	PRICE SPD, TYPE 3	SUPPLY DIFFUSER	FIXED CEILING	12X12 24X24	6	91-130	0.02-0.06	24		
	PRICE SPD, TYPE 3	SUPPLY DIFFUSER	FIXED CEILING	12X12 24X24	8	131-210	0.02-0.06	28		
	PRICE SPD, TYPE 3	SUPPLY DIFFUSER	FIXED CEILING	24X24	10	211-320	0.03-0.06	30		
	PRICE SPD, TYPE 3	SUPPLY DIFFUSER	FIXED CEILING	24X24	12	321-420	0.03-0.06	30		
	PRICE SPD, TYPE 3	SUPPLY DIFFUSER	FIXED CEILING	24X24	14	421-530	0.04-0.06	30		
PRICE SPD, TYPE 3	SUPPLY DIFFUSER	FIXED CEILING	24X24	15	531-630	0.03-0.06	30			
SD-3	PRICE 520	SIDEWALL SUPPLY	FLAT MARGIN	SEE PLAN	SEE PLAN	SEE PLAN	0.03-0.06	26		PROVIDE OPPOSED BLADE DAMPER
	PRICE 520D	SIDEWALL SUPPLY	FIXED CEILING	SEE PLAN	SEE PLAN	SEE PLAN	0.03-0.06	26		
	PRICE 520	SIDEWALL SUPPLY	SURF MOUNTED	SEE PLAN	SEE PLAN	SEE PLAN	0.01-0.08	22		
SD-4	PRICE SDS	LINEAR SUPPLY	SURF MOUNTED	SEE PLAN	SEE PLAN	SEE PLAN	0.01-0.08	30	PROVIDE LINEAR SLOT PLENUM	
RG-1	PRICE 80	RETURN GRILLE	LAY-IN CEILING	12X12 24X24	SEE PLAN	-	N/A	N/A		
RG-2	PRICE 80	RETURN GRILLE	FIXED CEILING	12X12 24X24	SEE PLAN	-	N/A	N/A		
RG-3	PRICE 530	RETURN GRILLE	SIDEWALL	SEE PLAN	SEE PLAN	-	N/A	N/A		
	PRICE 91	RETURN GRILLE	SIDEWALL	SEE PLAN	SEE PLAN	-	N/A	N/A		
EG-1	PRICE 80D	EXHAUST GRILLE	LAY-IN CEILING	12X12 24X24	SEE PLAN	SEE PLAN	0.01-0.08	25	PROVIDE OPPOSED BLADE DAMPER	
EG-2	PRICE 80D	EXHAUST GRILLE	FIXED CEILING	12X12 24X24	SEE PLAN	SEE PLAN	0.01-0.08	25		
EG-3	PRICE 530D	EXHAUST GRILLE	SIDEWALL	SEE PLAN	SEE PLAN	SEE PLAN	0.01-0.08	25		

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FIRE STATION

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MECHANICAL SCHEDULES

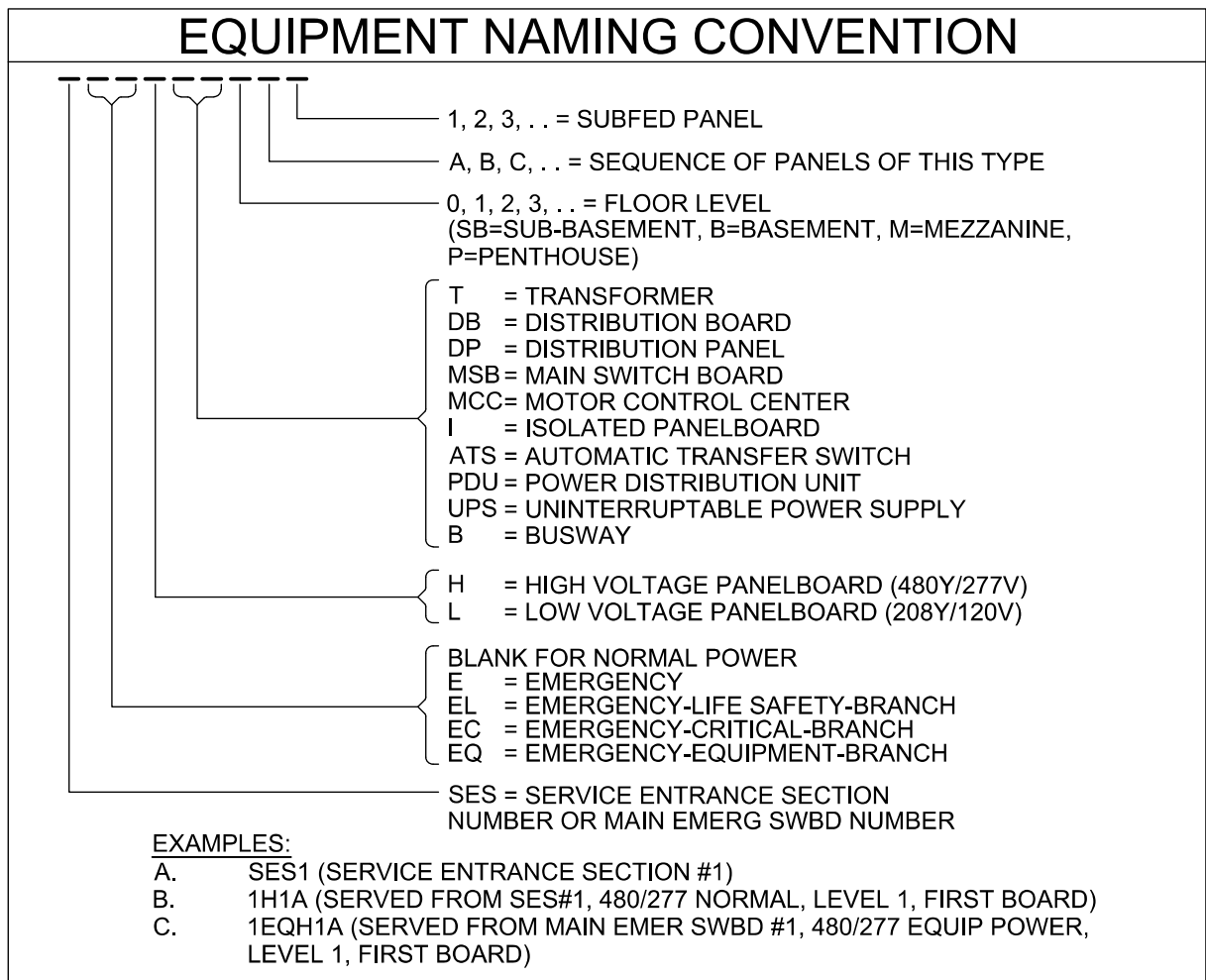
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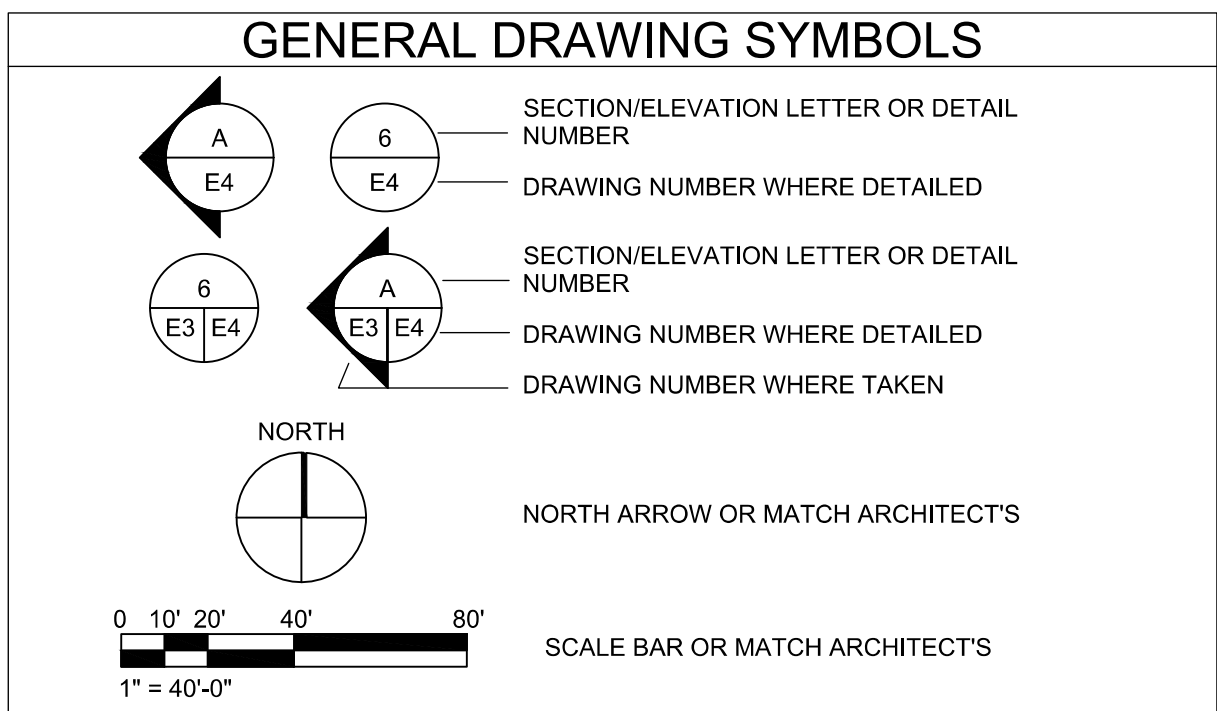
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ABBREVIATIONS	
ABBREV.	DEFINITION
A	AMPS, AMPERE, AMPERAGE
AC	ABOVE COUNTER
ADC	ALTERNATING CURRENT
ADA	AMERICANS WITH DISABILITIES ACT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	AVAILABLE INTERRUPTING CURRENT
AL	ALUMINUM
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
ATSC	AUTOMATIC TRANSFER SWITCH CONTROL
ATS	AUTOMATIC TRANSFER SWITCH
AV	AUDIO/VISUAL
AWG	AMERICAN WIRE GAUGE
C	CONDUIT
CB	CIRCUIT BREAKER
CCTV	CLOSED CIRCUIT TELEVISION
CKT	CIRCUIT
CL	CLOCK
CLF	CURRENT LIMITING FUSE
CO	CONDUIT ONLY
CU	COPPER
D	DIMMING
DC	DIRECT CURRENT
DL	DAY-LIGHTING
DIA	DIAMETER
E	EMERGENCY
EC	EMERGENCY, CRITICAL
EG	ENGINE GENERATOR
EL	EMERGENCY, LIFE SAFETY
EQ	EMERGENCY, EQUIPMENT
EX	EXISTING
FUT	FUTURE
FA	FIRE ALARM
FAA	FIRE ALARM ANNUNCIATOR
FACP	FIRE ALARM CONTROL PANEL
FATC	FIRE ALARM TERMINAL CABINET
FDR	FEEDER
FMS	FACILITY MANAGEMENT SYSTEM
GEN	GENERATOR
GFI	GROUND FAULT INTERRUPTER
G OR GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFP	GROUND FAULT EQUIPMENT PROTECTION
GFP	GROUND FAULT PROTECTION
GND	GROUND.
HOA	HAND-OFF-AUTOMATIC.
HOP	HORSEPOWER
IEEE	INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS
IG	ISOLATED GROUND
KCMIL	THOUSAND CIRCULAR MILS
KV	KILOVOLT
KVA	KILOVOLT AMPS
KVAR	KILOVOLT AMPS REACTIVE
KW	KILOWATT
KWH	KILOWATT HOUR.
LSIG	LONG TIME, SHORT TIME, INSTANTANEOUS, AND GROUND FAULT PROTECTION
MAX	MAXIMUM
MCC	MOTOR CONTROL CENTER
MH	MANHOLE
MIN	MINIMUM
MM	MIXED MEDIA
MTS	MANUAL TRANSFER SWITCH
MVA	MEGAVOLT AMPS
N	NEW
N/A	NOT APPLICABLE
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NEUT	NEUTRAL
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NL	NORMAL
NM	NEW MEXICO
NO	NORMALLY OPEN
O/H	OVERHEAD
P	POLE
PA	PUBLIC ADDRESS
PC	PHOTOCELL
PH	PHASE
PMCS	POWER MONITORING AND CONTROL SYSTEM
R	REMOVED/REMOVAL
RC	ROOM CONTROLLER
RSC	RIGID STEEL CONDUIT
SEC	SECURITY
SPD	SURGE PROTECTIVE DEVICE
SW	SWITCH
TEMP	TEMPORARY
TB	TELEPHONE TERMINAL BOARD
TV	TELEVISION
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSER
TYP.	TYPICAL
UC	UNDER COUNTER
UG	UNDERGROUND
UGE	UNDERGROUND ELECTRIC
UL	UNDERWRITERS' LABORATORIES
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTABLE POWER SUPPLY
V	VOLTS, VOLTAGE
VFD	VARIABLE FREQUENCY DRIVE
W	WALL MOUNTED
WG	WEATHERPROOF AND GFCI
WP	WEATHERPROOF
XFER	TRANSFER
XFMR (TRANSF)	TRANSFORMER

REFERENCE TAGS	
SYMBOL	DEFINITION
	KEYED NOTE REFERENCE
	MECHANICAL EQUIPMENT REFERENCE
	DENOTES MOUNTING HEIGHT AFF
	KITCHEN EQUIPMENT REFERENCE
	MEDICAL EQUIPMENT REFERENCE



RACEWAY & CONDUCTORS	
BRANCH CIRCUIT GENERAL INFORMATION: BRANCH CIRCUITS FROM OVERCURRENT PROTECTION (20A) TO FURTHEST DEVICE SHALL NOT EXCEED 75 FEET FOR #12AWG COPPER AND 150 FEET FOR #10AWG COPPER. MEASURED ALONG CONDUCTORS ROUTING PATH. BRANCH CIRCUITS EXCEEDING 150 FEET WILL BE SIZED SO THAT VOLTAGE DROP DOES NOT EXCEED 5%.	
SYMBOL	DESCRIPTION
	CONDUCTOR IDENTIFICATION SYMBOLS. REFER TO PLANS FOR COMBINATION USE. CONDUCTOR IDENTIFICATION MOSTLY USED IN HOMERUN LOCATION, BUT CAN ALSO BE USED IN BRANCH CIRCUITING WHERE APPLIED. GROUND CONDUCTORS WILL BE INSTALLED IN ALL RACEWAYS WHETHER SHOWN OR NOT.
	HOMERUN FROM EQUIPMENT LOCATION. THE CIRCUIT NUMBER ADJACENT TO HOMERUN INDICATES PANEL SOURCE AND INDIVIDUAL SINGLE POLE CIRCUIT BREAKER (S). CONDUCTOR IDENTIFICATION SYMBOL INDICATES NUMBER OF CONDUCTORS IN HOMERUN. MINIMUM #12 CONDUCTORS AND 3/4" RACEWAY PATH WILL BE PROVIDED IN HOMERUN UON. ALL HOMERUNS WILL INCLUDE GROUND CONDUCTOR.
	HOMERUN FROM EQUIPMENT LOCATION. THE CIRCUIT NUMBER ADJACENT TO HOMERUN INDICATES PANEL SOURCE AND INDIVIDUAL SINGLE POLE CIRCUIT BREAKER (S). SYMBOL REPRESENTS A MULTIBRANCH CIRCUIT. NUMBER OF CONDUCTORS IN HOMERUN WILL INCLUDE A SEPERATE NEUTRAL FOR EACH CIRCUIT PHASE CONDUCTOR. MINIMUM #12 CONDUCTORS AND 3/4" RACEWAY PATH WILL BE PROVIDED IN HOMERUN UON. ALL HOMERUNS WILL INCLUDE GROUND CONDUCTOR.
	HOMERUN FROM EQUIPMENT LOCATION. THE CIRCUIT NUMBER ADJACENT TO HOMERUN INDICATES PANEL SOURCE AND INDIVIDUAL TWO OR THREE POLE CIRCUIT BREAKERS. CONDUCTOR IDENTIFICATION SYMBOL INDICATES NUMBER OF CONDUCTORS IN HOMERUN. MINIMUM #12 CONDUCTORS AND 3/4" RACEWAY PATH WILL BE PROVIDED IN HOMERUN UON. NEUTRAL MAY BE USED WHERE INDICATED ON PLAN. ALL HOMERUNS WILL INCLUDE GROUND CONDUCTOR.
	CONCEALED RACEWAY BETWEEN DEVICES AND OR EQUIPMENT IN WALLS OR IN CEILING SPACE
	UNDERGROUND RACEWAY BETWEEN DEVICES AND OR EQUIPMENT ON WALLS OR CEILINGS
	EXPOSED RACEWAY BETWEEN DEVICES AND OR EQUIPMENT ON WALLS OR CEILINGS
	CONDUIT TURNS
	CONDUIT STUBBED AND CAPPED
	BUSWAY
	GROUNDING CONDUCTOR
	CABLE TRAY - POWER AND TELECOMMUNICATIONS
	TELECOMMUNICATIONS RACEWAY
	DATA RACEWAY
	VOICE/COMBINATION RACEWAY
	FIRE ALARM RACEWAY



DEMOLITION		
SYMBOL	DESCRIPTION	NOTES
	DASHED SYMBOL INDICATES EXISTING DEVICE OR EQUIPMENT TO BE REMOVED	REFER TO DEMOLITION PLANS FOR ADDITIONAL INFORMATION
	REMOVE EXISTING RACEWAY IN ALL ACCESSIBLE AREAS. CAPPED AND ABANDONED IF IN UNACCESSIBLE AREA	
	SOLID SYMBOL, LIGHTER IN COLOR INDICATES EXISTING DEVICE OR EQUIPMENT TO REMAIN	
	EXISTING CONDUIT TO BE REUSED	

DEVICES			
DEVICE INDICATOR LETTER, "X" EQUALS DESIGNATION BELOW (TYPICAL FOR MOST RECEPTACLE TYPES): BLANK FOR NORMAL POWER G = GFCI RATED IG = ISOLATED GROUND T = TAMPERPROOF WG = WEATHERPROOF AND GFCI WP = WEATHERPROOF (IN-USE COVER) CL = CLOCK TV = TELEVISION			
SYMBOL	DESCRIPTION	MOUNTING	
		LOC.	HT.
	IN FLOOR DUPLEX RECEPTACLE. CONFIGURATION AS INDICATED ON PLANS		
	IN FLOOR DOUBLE DUPLEX (QUADPLEX) RECEPTACLE. CONFIGURATION AS INDICATED ON PLANS		
	IN FLOOR EMERGENCY DUPLEX RECEPTACLE. CONFIGURATION AS INDICATED ON PLANS	FLOOR	VARIABLES
	IN FLOOR EMERGENCY DOUBLE DUPLEX (QUADPLEX) RECEPTACLE. CONFIGURATION AS INDICATED ON PLANS		
	COMBINATION DUPLEX RECEPTACLE AND COMMUNICATIONS FLOORBOX. DEVICE CONFIGURATION AS INDICATED ON PLANS.		
	CEILING MOUNTED DUPLEX RECEPTACLE		
	CEILING MOUNTED DOUBLE DUPLEX (QUADPLEX) RECEPTACLE		
	CEILING MOUNTED EMERGENCY DUPLEX RECEPTACLE	CEILING	FLUSH
	CEILING MOUNTED EMERGENCY DOUBLE DUPLEX (QUADPLEX) RECEPTACLE		
	COMBINATION POWER/COMMUNICATION IN CEILING OUTLET. CONFIGURATION AS INDICATED ON PLANS		
	SIMPLEX RECEPTACLE		
	DUPLEX RECEPTACLE		
	DOUBLE DUPLEX (QUADPLEX) RECEPTACLE	WALL, UON	+18" UON
	EMERGENCY DUPLEX RECEPTACLE		
	EMERGENCY DOUBLE DUPLEX (QUADPLEX) RECEPTACLE		
	SPECIAL PURPOSE RECEPTACLE. NEMA CONFIGURATION AND AMPERAGE AS NOTED ON PLANS		
	MULTI-OUTLET ASSEMBLY (SURFACE MOUNTED RACEWAY)	VARIABLES SEE PLANS	VARIABLES SEE PLANS
	COMBINATION POWER/COMMUNICATION POLE. CONFIGURATION AS NOTED ON PLANS		
	WALL MOUNTED CODE SIZE J-BOX		
	CODE SIZE JUNCTION BOX	VARIABLES SEE PLANS	VARIABLES SEE PLANS
	CODE SIZE PULLBOX (OR AS SIZED ON PLAN)		
	PUSHBUTTON (EMERGENCY POWER OFF - EPO)		
	PHOTOCELL		
	LIGHTNING PROTECTION AIR TERMINAL	ROOF	VARIABLES
	THERMOSTAT	WALL	+44" UON
	ENCLOSED CIRCUIT BREAKER. AMPERAGE/NEMA ENCLOSURE RATING, 3 POLE UON		
	NON-FUSED DISCONNECT SWITCH. AMPERAGE/NEMA ENCLOSURE RATING, 3 POLE UON		
	FUSED DISCONNECT SWITCH. AMPERAGE/NEMA ENCLOSURE RATING, 3 POLE UON	VARIABLES	VARIABLES
	MOTOR STARTER. STARTER SIZE INDICATED BY NUMBER/NEMA ENCLOSURE RATING, SINGLE SPEED UON		
	COMBINATION FUSIBLE DISCONNECT SWITCH AND MOTOR STARTER. NEMA STARTER SIZE/AMPERAGE/NEMA ENCLOSURE RATING, 3 POLE UON		
	MOTOR. NUMBER INDICATES HORSEPOWER RATING FOR 1HP AND LARGER	N/A	N/A
	MOTOR. "F" INDICATES FRACTIONAL HORSEPOWER		

EQUIPMENT	
SYMBOL	DESCRIPTION
	MAIN SWITCHBOARD. DASHED LINES INDICATE CLEARANCES.
	DISTRIBUTION BOARD OR PANEL. DASHED LINES INDICATE CLEARANCES.
	FLUSH MOUNTED PANELBOARD. DASHED LINES INDICATE CLEARANCES.
	SURFACE MOUNTED PANELBOARD. DASHED LINES INDICATE CLEARANCES.
	MOTOR CONTROL CENTER. DASHED LINES INDICATE CLEARANCES.
	DRY TYPE TRANSFORMER (15kVA OR ABOVE), WITH EQUIPMENT TAG (TAG INSIDE OR OUTSIDE, DEPENDING ON SIZE). IN MOST CASES, ACTUAL SIZE SHOWN ON PLANS (ELECTRICAL ROOMS).
	DRY TYPE TRANSFORMER (LESS THAN 15kVA), WITH NO EQUIPMENT TAG. SIZE, TYPE AND LOCATION NOTED ON PLANS.
	VARIABLE FREQUENCY DRIVE
	UNINTERRUPTABLE POWER SUPPLY. DASHED LINES INDICATE CLEARANCES.
	AUTOMATIC TRANSFER SWITCH. DASHED LINES INDICATE CLEARANCES.
	GROUND BAR

LIGHTING			
REFER TO LUMINAIRE SCHEDULE FOR ALL LUMINAIRE TYPES WHETHER WALL MOUNTED OR CEILING MOUNTED.			
SYMBOL	DESCRIPTION	MOUNTING	
		LOC.	HT.
	HATCHING INDICATES EMERGENCY LIGHTING. HATCH WILL BE MODIFIED FOR EACH LUMINAIRE TYPE. EMERGENCY LUMINAIRE DESIGNATED WITH "E" IN TYPE DESIGNATION.	VARIABLES	
	RECESSED MOUNTED LUMINAIRE. SMALL CASE "a" DENOTES SWITCHING. NUMBER "3" DENOTES BRANCH CIRCUITING. SYMBOL "A" DENOTES LUMINAIRE TYPE	CEILING	
	SURFACE MOUNTED LUMINAIRE. LUMINAIRE TYPE AS INDICATED ON PLANS		
	LINEAR DIRECT/INDIRECT LUMINAIRE. CABLE OR STEM MOUNTED		
	DOWN LIGHT LUMINAIRE; CEILING MOUNTED		
	WALL MOUNTED LUMINAIRES	WALL	
	TRACK MOUNTED LUMINAIRES		
	STRIP LUMINAIRE	SURFACE	
	EXIT LUMINAIRE. SHADED SIDE INDICATES FACE SIDE. PROVIDE DIRECTIONAL ARROW(S) AS INDICATED ON PLANS		
	DOUBLE FACE EXIT LUMINAIRE. SHADED SIDE INDICATES FACE SIDE. PROVIDE DIRECTIONAL ARROW(S) AS INDICATED ON PLANS	VARIABLES	
	EMERGENCY BATTERY PACK LUMINAIRE (BUG-EYE/FROG-EYE)		
	SINGLE HEAD, POLE MOUNTED LUMINAIRE	EXTERIOR	AS DETAILED
	DOUBLE HEAD, POLE MOUNTED LUMINAIRE		
	DEVICE INDICATOR LETTER, "X" EQUALS DESIGNATION BELOW (TYPICAL FOR MOST SWITCH TYPES): a = SMALL CASE LETTER DENOTES SWITCHING CONTROL 2 = DOUBLE POLE TOGGLE SWITCH 3 = THREE-WAY TOGGLE SWITCH 4 = FOUR-WAY TOGGLE SWITCH P = PILOT LIGHT TOGGLE SWITCH M = MOMENTARY CONTACT SWITCH K = KEY OPERATED SWITCH WP = WEATHERPROOF TOGGLE SWITCH T = MANUAL MOTOR STARTER SWITCH WITH THERMAL OVERLOAD PROTECTION D = DIMMER SWITCH TW = TWIST TIMER SWITCH	WALL	+44" UON
	WALL MOUNTED OCCUPANCY SENSOR; TYPE AS INDICATED ON PLANS		
	CEILING MOUNTED OCCUPANCY SENSOR; TYPE AS INDICATED ON PLANS		
	DAY-LIGHTING SENSOR; TYPE AS INDICATED ON PLANS	CEILING	SURFACE
	ROOM CONTROLLER; TYPE AS INDICATED ON PLANS		

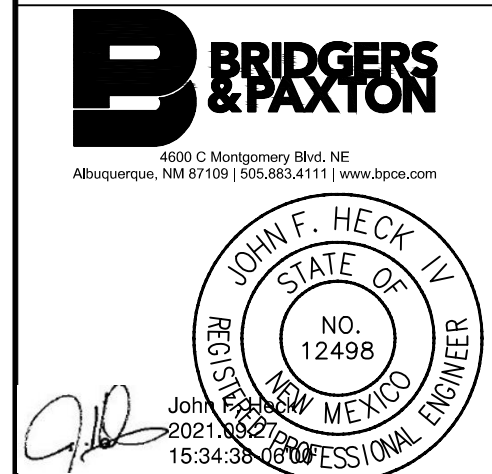
UTILITIES	
SYMBOL	DESCRIPTION
	DISTRIBUTION POLE FOR OVERHEAD ELECTRICAL OR COMMUNICATIONS AS INDICATED ON PLAN.
	OVERHEAD UTILITY AND OR SYSTEM DISTRIBUTION. 3PH = THREE PHASE 1PH = SINGLE PHASE P = ELECTRICAL PRIMARY S = ELECTRICAL SECONDARY T = TELECOMMUNICATION TV = TELEVISION E = EMERGENCY POWER ATSC = AUTOMATIC TRANSFER SWITCH CONTROL N = NEW EX = EXISTING
	UNDERGROUND UTILITY AND OR SYSTEM DISTRIBUTION.
	UTILITY OR FACILITY TRANSFORMER
	PAD MOUNTED SWITCH
	CONNECTION CABINET (UTILITY METER MOUNT)
	PRIMARY SITE METER ENCLOSURE
	METER ENCLOSURE. EITHER ON BUILDING OR ON UTILITY EQUIPMENT
	CT ENCLOSURE. EITHER ON BUILDING OR ON UTILITY EQUIPMENT
	MANHOLE - POWER OR COMMUNICATION AS INDICATED ON PLANS
	HAND HOLE - POWER OR COMMUNICATION AS INDICATED ON PLANS
	ENGINE GENERATOR
	TELECOMMUNICATION PEDESTAL
	TELEVISION PEDESTAL

FIRE ALARM			
SYMBOL	DESCRIPTION	MOUNTING	
		LOC.	HT.
	FIRE ALARM CONTROL PANEL	WALL	-
	FIRE ALARM TERMINAL CABINET (EQUIP. NAMING CONVENTION PER PLANS)		
	FIRE ALARM ANNUNCIATOR PANEL		
	PULL STATION	WALL	+44"
	FIREMAN'S TELEPHONE OUTLET		
	HORN NOTIFICATION		
	SPEAKER NOTIFICATION		
	CHIME NOTIFICATION		
	COMBINATION SPEAKER AND CHIME NOTIFICATION	WALL	+80" UON
	SPEAKER/HORN WITH STROBE LIGHT		
	STROBE LIGHT ONLY		
	BELL (GONG)		
	PHOTOELECTRIC SMOKE DETECTOR		
	IONIZATION SMOKE DETECTOR		
	COMBINATION RATE OF RISE / FIXED TEMPERATURE	CEILING	SURFACE
	FIXED TEMPERATURE; TEMPERATURE AS NOTED ON PLANS OR SPECS.		
	RATE OF RISE ONLY		
	BEAM TRANSMITTER	CEILING OR WALL	VARIABLES
	BEAM RECEIVER		
	UNDER FLOOR SMOKE DETECTOR	UNDER FLOOR	SEE PLANS
	DUCT DETECTOR	AT DUCT	SEE PLANS
	FIRE/SMOKE DAMPER		
	PRESSURE SWITCH		
	TAMPER SWITCH	PIPE	VARIABLES
	FLOW SWITCH		
	POST INDICATOR VALVE		
	MAGNETIC DOOR HOLDER		
	CONTROL RELAY	VARIABLES	SEE PLANS
	MONITOR MODULE		
	REMOTE ALARM INDICATING LIGHT		
	ADDRESSABLE/SUPERVISED RELAY		

ONE-LINE DIAGRAM	
SYMBOL	DESCRIPTION
	CIRCUIT BREAKER; TRIP SETTING/FRAME SIZE OR NO. OF POLES. SETTINGS AND PROTECTION AS NOTED ON PLANS
	DRAWOUT CIRCUIT BREAKER (TRIP SETTING FRAME SIZE)
	MEDIUM VOLTAGE DRAWOUT (TRIP SETTING FRAME SIZE)
	TRANSFORMER. TRANSFORMER NAME, TRANSFORMER KVA RATING, PRIMARY VOLTAGE AND WIRING CONFIGURATION, SECONDARY VOLTAGE, K RATING (IF APPLICABLE)
	CURRENT TRANSFORMER, NUMBER "3000/5" DENOTES RATIO.
	POTENTIAL TRANSFORMER.
	DISCONNECT SWITCH. "300A" DENOTES AMPERAGE RATING
	FUSE. "300A" DENOTES AMPERAGE RATING
	GROUND FAULT PROTECTION
	SHUNT TRIP OPERATOR
	GROUND CONNECTION
	TRANSFER SWITCH. SEE PLANS FOR TYPE OF SWITCH
	SURGE ARRESTOR
	SURGE PROTECTIVE DEVICE
	KILOWATT METER
	ELECTRONIC METER
	KIRK KEY INTERLOCK No.1
	RELAY No.1
	AMMETER SWITCH
	AMMETER
	VOLTMETER SWITCH
	VOLTMETER
	DELTA CONNECTED
	WYE CONNECTED
	GENERATOR
	VFD CONNECTION
	MOTOR CONNECTION
	UPS

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07-25-2022

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CERILLOS SENIOR CENTER
AND TURQUOISE TRAIL # 3
FIRE STATION
LOT 3, SECTION 17, T.14N., R.8E., N.M.P.M.
SANTA FE COUNTY, NEW MEXICO

Current Status:	
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ELECTRICAL LEGEND	
Job Number:	
Sheet No.	E001

ELECTRICAL
SYMBOL LEGEND
(NOT ALL SYMBOLS APPLY TO THIS PROJECT)

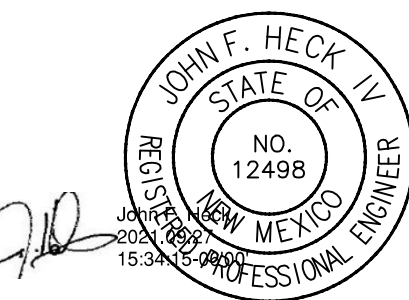
SPECIAL SYSTEMS			
SYMBOL	DESCRIPTION	MOUNTING	
		LOC.	HT.
	FLOOR BOX WITH POWER AND DATA	FLOOR	VARIES SEE PLANS
	VOICE/DATA OUTLET	WALL	+18" UON
AC	VOICE/DATA OUTLET ABOVE COUNTER TOP	WALL	+44" UON
W	TELEPHONE OUTLET WALL MOUNTED		
IC	INTERCOM CALL SWITCH	WALL	+44" UON
ICM	INTERCOM MASTER STATION		
	COMMUNICATION HORN	WALL	+84" UON
B	COMMUNICATION BELL		
IC	INTERCOM WALL SPEAKER	WALL	+96" UON
H S	INTERCOM SPEAKER HORN		
DA	DURESS ALARM PUSHBUTTON	WALL	SEE PLANS
LD	LOCK DOWN PUSHBUTTON		
	WALL MOUNTED CODE SIZE J-BOX	WALL	SEE PLANS
	WALL MOUNTED CODE SIZE J-BOX STACKED VERTICALLY		
	COMBINATION CLOCK/SPEAKER	WALL	SEE PLANS
DSVD	DIGITAL SIGNAGE VIDEO DISPLAY	WALL	SEE PLANS
VP	VIDEO PROJECTOR	REFER TO PLANS	
S _l	CEILING SPEAKER: LOCAL SOUND SYSTEM	CEILING	FLUSH
S _{IC}	CEILING SPEAKER: INTERCOM SYSTEM		
J	J-HOOK ROUTING PATH		
	CEILING VOICE/DATA	ABOVE CEILING	SEE PLANS
WAP	WIRELESS ACCESS POINT		
J	CODE SIZE JUNCTION BOX		

UPDATED: 09/07/2016

SECURITY			
SYMBOL	DESCRIPTION	MOUNTING	
		LOC.	HT.
CR	CARD READER		
KP	KEY PAD	WALL	+44" UON
KS	KEY SWITCH		
M	WALL MOUNTED MOTION DETECTOR	WALL	+84" UON
	SECURITY CAMERA (BOX, FIXED)		
	SECURITY CAMERA (DOME, FIXED OR PTZ)		
	SECURITY CAMERA 180°	VARIES	SEE PLANS
	SECURITY CAMERA 360°		
	GLASS BREAK DETECTOR	WINDOW	SEE PLANS
	CEILING MOTION DETECTOR	CEILING	SEE PLANS
DC	DOOR CONTACT		
DS	DOOR SWITCH		
ES	ELECTRIC STRIKE	DOOR	SEE PLANS
LD	LOCK DOWN		
ML	MAGNETIC LOCK		

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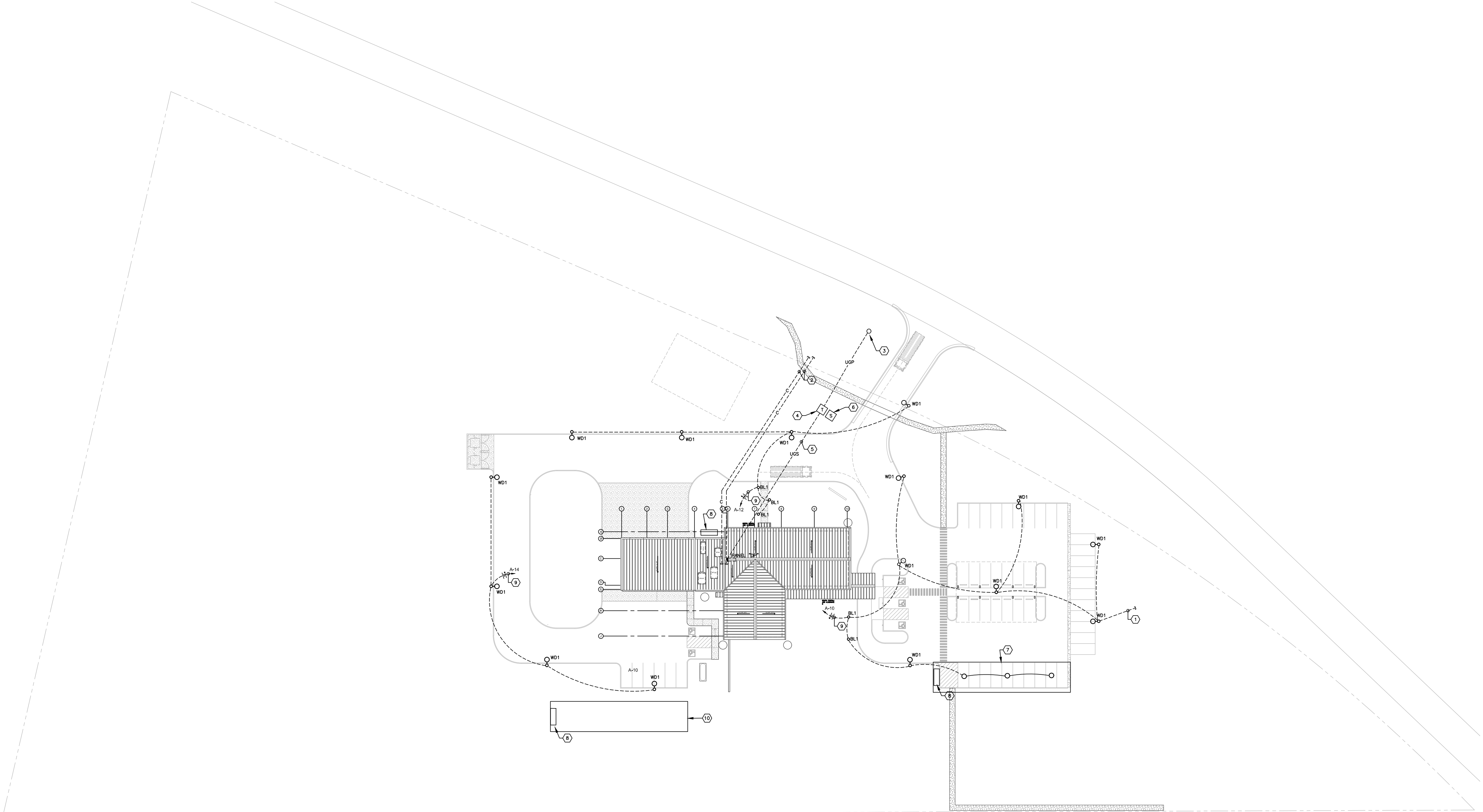
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E002

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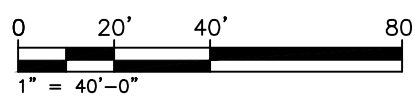
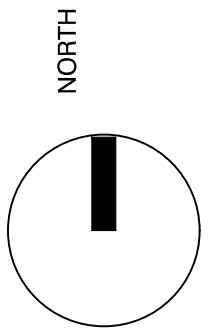
A1 ELECTRICAL SITE PLAN

GENERAL NOTES

- A. IT WILL BE THE CONTRACTOR'S OBLIGATION TO INCLUDE, IN THEIR BID, THE COSTS FOR INSTALLING JUNCTION BOXES, PROVIDING MISCELLANEOUS COVERS, WORK WITH OTHER DISCIPLINES WHERE THE CONTRACT INVOLVES ELECTRICAL POWER OR CONTROL CONNECTIONS, SWITCHES, ETC.
- B. THE WORK INDICATED ON THE ELECTRICAL SITE PLAN AND THE POWER RISER DIAGRAM IS THE RESULT OF INITIAL CONTACT BY THE DESIGN ENGINEER WITH THE LOCAL ELECTRICAL UTILITY COMPANY. ADDITIONAL WORK MAY BE REQUIRED. THE CONTRACTOR IS RESPONSIBLE TO COORDINATE ALL REQUIREMENTS OF THE ELECTRICAL SERVICE WITH THE LOCAL ELECTRICAL UTILITY COMPANY AND PROVIDE, PRIMARY AND SECONDARY TRENCHING, CONDUITS, PRIMARY CONDUCTORS, CONCRETE ENCASEMENT (WHERE APPLICABLE), PULL BOXES, BACKFILL AND PATCHING. ALL ASSOCIATED WORK REQUIRED FOR INSTALLATION OF THE ELECTRICAL SERVICE AND PRIMARY SYSTEMS BY THE CONTRACTOR, INCLUDING FIELD COORDINATION AND ROUTING WITH PNM IS THAT OF THE ELECTRICAL CONTRACTOR AND SHALL BE INCLUDED IN THE CONTRACTOR'S BID WITHOUT EXCEPTION.
- E. THE CONDUIT RUNS, AS SHOWN ON PLANS, INDICATE APPROXIMATE ROUTING. EXACT LOCATION OF CONDUIT RUNS SHALL BE AS FIELD CONDITIONS DICTATE.
- F. CONTRACTOR SHALL INSTALL PULL AND JUNCTION BOXES WHEREVER REQUIRED BY N.E.C. OR JOB CONDITIONS. ALL NEW WIRING SHALL BE TAGGED AT ALL PULL BOXES, JUNCTION BOXES, EQUIPMENT BOXES AND CABINETS WITH APPROVED PLASTIC TAGS. ACTION CRAFT, BRADY OR APPROVED EQUAL.
- L. CONTRACTOR SHALL MAKE AS-BUILT DRAWINGS DOCUMENTING ANY AND ALL WIRING AND EQUIPMENT CONDITIONS AND CHANGES WHILE COMPLETING THIS CONTRACT. PROVIDE UPDATED TYPEWRITTEN DIRECTORIES FOR ALL PANELS AND LABEL ALL PANELS WITH PLASTIC LAMINATED NAMEPLATES.
- O. REFER TO POWER PLANS FOR DETAILED LAYOUTS OF ELECTRICAL GEAR.
- S. WHEREVER REQUIRED, FURNISH AND INSTALL ON WALL OR CEILING FREESTANDING UNISTRUT CHANNELS, ANGLE IRONS OR ANY OTHER SUPPORT STRUCTURE WITH THREADED ROD HANGERS AS REQUIRED FOR THE SUPPORT OF ELECTRICAL EQUIPMENT OF ANY KIND TO ENSURE PROPER INSTALLATION.
- X. ALL LOW VOLTAGE CONDUCTORS SHALL BE RAN IN SEPARATE RACEWAYS AS POWER CONDUCTORS (120VAC OR HIGHER PHASE TO NEUTRAL), NO EXCEPTIONS.
- Y. PHASE SEQUENCING SHALL BE PROVIDED AND MAINTAINED THROUGHOUT THE ELECTRICAL DISTRIBUTION SYSTEM. PHASE ARRANGEMENT ON 3-PHASE BUSES SHALL BE A,B,C FROM FRONT TO BACK, TOP TO BOTTOM, OR LEFT TO RIGHT AS VIEWED FROM THE FRONT OF THE SWITCHBOARD OR PANEL BOARD. (PHASE A SHALL BE MAINTAINED AS PHASE A FROM THE DISTRIBUTION TRANSFORMER TO EACH PANEL BOARD OR SWITCHBOARD).
- Z. ALL BRANCH AND FEEDER CIRCUIT WIRING SHALL BE COLOR CODED THROUGHOUT THE ENTIRE ELECTRICAL DISTRIBUTION SYSTEM.

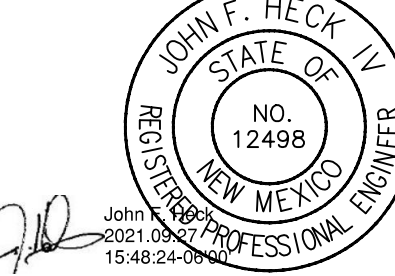
SHEET KEYED NOTES

- 1. PROVIDE 1" CONDUIT STUB OUT FOR FUTURE POLE LIGHT. CAP AND MARK FOR FUTURE USE.
- 2. EXTEND (2) 4" SCHEDULE 40 PVC CONDUITS FROM EACH IT CLOSET BACKBOARD TO PROPERTY LINE. PROVIDE (3) 1.5" INNERDUCT IN EACH. PROVIDE 6' OF EXCESS INNERDUCT ON EACH END. PROVIDE PULL STRINGS.
- 3. NEW POWER POLE BY ELECTRICAL UTILITY (PNM). PROVIDE 4" RGS RISER UP POLE PER PNM REQUIREMENTS. COORDINATE WITH PNM IN FIELD. REFER TO GENERAL NOTES AND ONE LINE DIAGRAM.
- 4. NEW PNM PAD MOUNT TRANSFORMER. COORDINATE EXACT LOCATION WITH PNM IN FIELD. SEE GENERAL NOTES AND ONE LINE DIAGRAM.
- 5. UNDERGROUND SECONDARY. REFER TO ONE LINE DIAGRAM. PROVIDE TRENCH AND BACKFILL. COORDINATE ROUTING IN FIELD.
- 6. SOLAR GENERATION EQUIPMENT. REFER TO PV DRAWINGS. ALL WORK AND EQUIPMENT BY SOLAR CONTRACTOR. COORDINATE ALL WORK WITH APPROVED SOLAR EQUIPMENT INSTALLER.
- 7. SOLAR PARKING CANOPY BY SOLAR CONTRACTOR. SHOWN FOR REFERENCE ONLY. ASSOCIATED LIGHTING TO BE PROVIDED BY SOLAR CONTRACTOR. CONNECT TO SITE LIGHTING CIRCUIT. COORDINATE WITH SOLAR CONTRACTOR TO ENSURE PROPER VOLTAGE.
- 8. SOLAR DISTRIBUTION EQUIPMENT BY SOLAR CONTRACTOR. SHOWN FOR REFERENCE.
- 9. EXTEND EXTERIOR LIGHTING CIRCUIT THROUGH LIGHTING CONTROL RELAY PANEL. REFER TO DETAILS AND LIGHTING CONTROL SEQUENCE OF OPERATION.
- 10. GROUND MOUNT SOLAR RACK SHOWN FOR REFERENCE ONLY. ALL ASSOCIATED WORK PROVIDED BY SOLAR CONTRACTOR.



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**CERILLOS SENIOR CENTER
AND TURQUOISE TRAIL # 3
FIRE STATION**
LOT 3, SECTION 17, T.14N., R.8E., N.M.P.M.
SANTA FE COUNTY, NEW MEXICO

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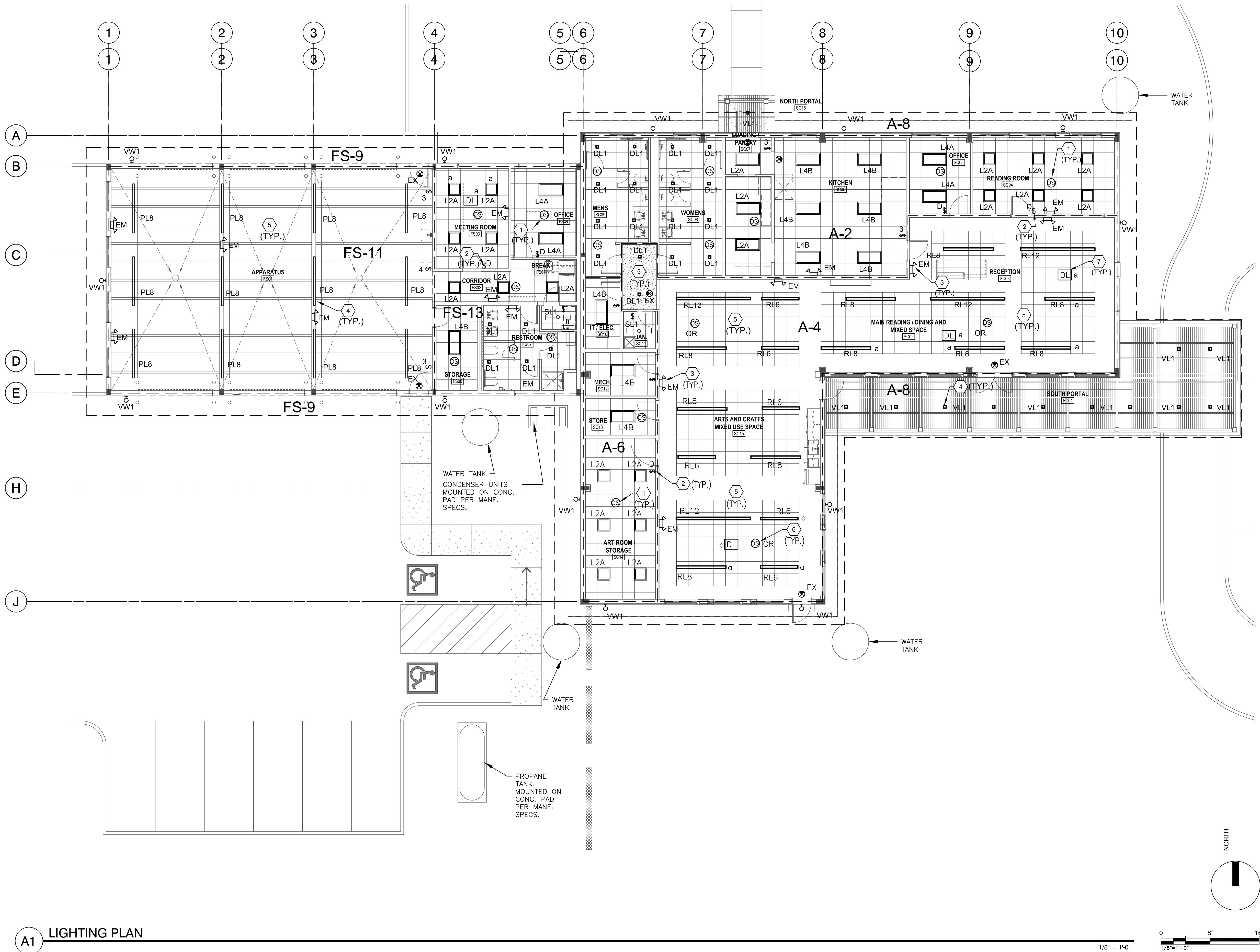
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**ELECTRICAL
SITE PLAN**

Job Number:

Sheet No.

ES101

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A1 LIGHTING PLAN

GENERAL NOTES

- IT WILL BE THE CONTRACTOR'S OBLIGATION TO INCLUDE, IN THEIR BID, THE COSTS FOR INSTALLING JUNCTION BOXES, PROVIDING MISCELLANEOUS COVERS, WORK WITH OTHER DISCIPLINES WHERE THE CONTRACT INVOLVES ELECTRICAL POWER OR CONTROL CONNECTIONS, SWITCHES, ETC. ALL OF THIS WORK SHALL BE PART OF THIS CONTRACT.
- LOCATION OF EQUIPMENT AND OTHER DEVICES SHOWN ON THE PLANS ARE APPROXIMATE AND SHALL BE FIELD VERIFIED.
- THE CONDUIT RUNS, AS SHOWN ON PLANS, INDICATE APPROXIMATE ROUTING. EXACT LOCATION OF CONDUIT RUNS SHALL BE AS FIELD CONDITIONS DICTATE.
- CONTRACTOR SHALL INSTALL PULL AND JUNCTION BOXES WHEREVER REQUIRED BY I.E.C. OR JOB CONDITIONS. ALL NEW WIRING SHALL BE TAGGED AT ALL PULL BOXES, JUNCTION BOXES, EQUIPMENT BOXES AND CABINETS WITH APPROVED PLASTIC TAGS. ACTION CRAFT, BRADY OR APPROVED EQUAL.
- THE CONTRACTOR SHALL INSTALL THE HANDLES OR MULTI-POLE BREAKERS FOR ALL CIRCUITS SHARING A NEUTRAL CONDUCTOR.
- SHOULD CONTRACTOR AT ANY TIME NOTICE THAT THE ACTUAL FIELD CONDITIONS DO NOT CORRESPOND TO THE INFORMATION GIVEN ON THE DRAWINGS, THEN IT WILL BE THEIR RESPONSIBILITY TO NOTIFY THE ENGINEER FOR CLARIFICATION, PRIOR TO COMMENCING SUCH WORK.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH ALL TRADES FOR THE EXACT LOCATION OF EQUIPMENT AND APPURTENANCES THAT REQUIRE ELECTRICAL CONNECTIONS AND PROVIDE ALIGNMENT OF DEVICES.
- REMOVE AND INSTALL CEILING SUPPORTS AND TILES AS REQUIRED FOR THE COMPLETION OF THIS PROJECT. THIS CONTRACTOR SHALL INCLUDE REPLACEMENT OF CEILING TILES DAMAGED IN THE PROCESS OF THE INSTALLATION WITH NEW MATCHING TILES. THE SAME APPLIES TO DAMAGE DONE TO OTHER KINDS OF CEILINGS.
- THE CONTRACTOR SHALL REPAIR ANY DAMAGE TO WALLS, CEILINGS, ETC. IN A PROFESSIONAL MANNER. SEAL ALL WALL OR CEILING OPENINGS WITH MATCHING MATERIAL. THIS SHALL BE DONE AT NO ADDITIONAL COST TO THE OWNER.
- CONTRACTOR SHALL MAKE AS-BUILT DRAWINGS DOCUMENTING ANY AND ALL WIRING AND EQUIPMENT CONDITIONS AND CHANGES WHILE COMPLETING THIS CONTRACT. PROVIDE UPDATED TYPEWRITTEN DIRECTORIES FOR ALL PANELS AND LABEL ALL PANELS WITH PLASTIC LAMINATED NAMEPLATES.
- INSTALL BLANK DEVICE PLATES ON ALL UNUSED JUNCTION BOXES IN FINISHED AREAS.
- THE CONTRACTOR SHALL REPLACE ALL DAMAGED AND INOPERABLE DEVICES SUCH AS LIGHT SWITCHES, RECEPTACLES, ETC. AT NO ADDITIONAL COST THE OWNER.
- THE CONTRACTOR SHALL BE AWARE THAT ALL POWER SYSTEMS ARE OPERABLE AND SHALL REMAIN OPERABLE AT PROJECT COMPLETION. THIS REQUIRES THE CONTRACTOR TO "RING OUT" ALL CIRCUITS IN AREAS OF MODIFICATIONS PRIOR TO ANY WORK BEING DONE. THE CONTRACTOR SHALL MAINTAIN ALL SUCH BRANCH CIRCUITING AND CONTROLS OPERATIONAL AFTER MODIFICATIONS.
- INTERRUPTION OF ANY ELECTRICAL SERVICES OR SPECIAL SYSTEMS SHALL BE COORDINATED WITH THE OWNER'S REPRESENTATIVE AT LEAST SEVEN DAYS PRIOR TO THE INTENDED OUTAGE AND SHALL BE REQUESTED IN WRITING.
- ALL NEW WIRING SHALL BE COPPER.
- ALL HOME RUN CIRCUITING TO PANELS SHALL BE .75" CONDUIT, MINIMUM.
- MOUNTING HEIGHTS INDICATED ON THE DRAWINGS ARE APPROXIMATE. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH OTHER TRADES FOR EXACT HEIGHT REQUIREMENTS. THIS REQUIREMENT ALSO APPLIES TO THE LOCATION OF WALL BOXES FOR HVAC SENSORS, T-STATS, ETC. ANY THIS NOTE APPLIES TO ALL ELECTRICAL SHEETS IN THESE DRAWINGS: OUTLET DEVICES THAT HAVE TO BE RELOCATED DUE TO COUNTERTOP, CHALKBOARD, TACKBOARD, TYPE CONFLICTS WILL BE DONE AT NO ADDITIONAL COST TO THE OWNER. ALIGNMENT OF ALL DEVICES SHALL BE COORDINATE IN THE FIELD SO THAT ALL DEVICES SHARE A COMMON MOUNTING PLANE.
- ALL PENETRATIONS THROUGH FIRE RATED ASSEMBLIES SHALL BE SEALED WITH FIRE STOPPING, IE. 3M BRAND CALK, PUTTY, STRIP AND SHEET FORMS, DOW CORNERING 3-6548 SILICONE RTV FOAM
- ALL LOW VOLTAGE CONDUCTORS SHALL BE RAN IN SEPARATE RACEWAYS AS POWER CONDUCTORS (120VAC OR HIGHER PHASE TO NEUTRAL), NO EXCEPTIONS.
- PHASE SEQUENCING SHALL BE PROVIDED AND MAINTAINED THROUGHOUT THE ELECTRICAL DISTRIBUTION SYSTEM. PHASE ARRANGEMENT ON 3-PHASE BUSES SHALL BE A,B,C FROM FRONT TO BACK, TOP TO BOTTOM, OR LEFT TO RIGHT AS VIEWED FROM THE FRONT OF THE SWITCHBOARD OR PANEL BOARD. (PHASE A SHALL BE MAINTAINED AS PHASE A FROM THE DISTRIBUTION TRANSFORMER TO EACH PANEL BOARD OR SWITCHBOARD).
- ALL BRANCH AND FEEDER CIRCUIT WIRING SHALL BE COLOR CODED THROUGHOUT THE ENTIRE ELECTRICAL DISTRIBUTION SYSTEM.

SHEET KEYED NOTES

- PROVIDE OCCUPANCY SENSOR. REFER TO LIGHTING SEQUENCE OF OPERATION.
- PROVIDE 0-10V DIMMING SWITCH COMPATIBLE WITH FIXTURE MANUFACTURER. COORDINATE IN FIELD. REFER TO LIGHTING SEQUENCE OF OPERATION.
- PROVIDE NON-SWITCHED HOT CONDUCTOR TO ALL EMERGENCY FIXTURES FOR BATTERY CHARGING.
- COORDINATE FIXTURE MOUNTING WITH ARCHITECTURAL CEILING DETAILS.
- EXTEND OPEN AREAS AND CORRIDOR LIGHTING CIRCUIT THROUGH LIGHTING CONTROL RELAY PANEL. REFER TO LIGHTING CONTROL SEQUENCE OF OPERATION.
- "OR" INDICATES OCCUPANCY SENSOR OVERRIDE FOR RELAY LIGHTING CONTROL. SEE LIGHTING CONTROL DIAGRAM AND LIGHTING CONTROL SEQUENCE OF OPERATION.
- DAYLIGHT SENSOR. SMALL CASE LETTER INDICATES FIXTURES CONNECTED. REFER TO LIGHTING CONTROL SEQUENCE OF OPERATION.

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**CERILLOS SENIOR CENTER
AND TURQUOISE TRAIL # 3
FIRE STATION**

LOT 3, SECTION 17, T.14N., R.8E., N.M.P.M.
SANTA FE COUNTY, NEW MEXICO

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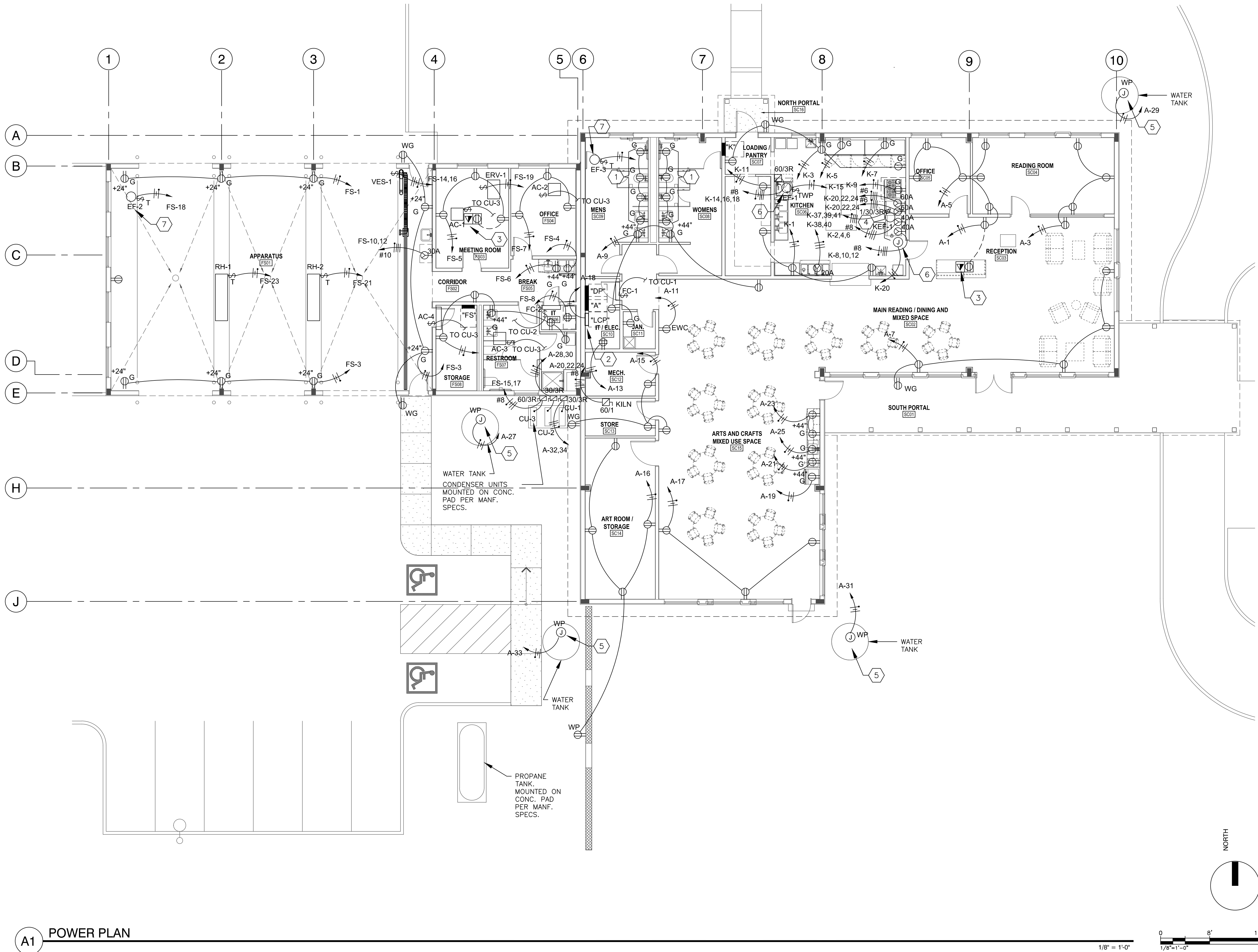
LIGHTING PLAN

Job Number:

Sheet No.

EL101

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A1 POWER PLAN

GENERAL NOTES

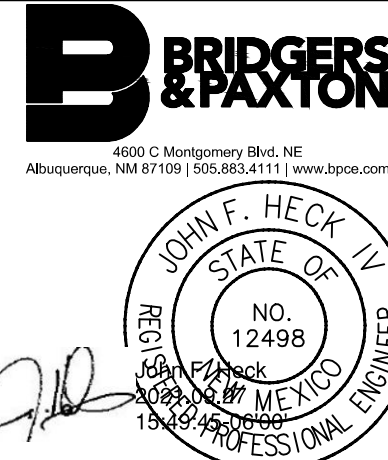
- LOCATION OF EQUIPMENT AND OTHER DEVICES SHOWN ON THE PLANS ARE APPROXIMATE AND SHALL BE FIELD VERIFIED.
- CONTRACTOR SHALL INSTALL PULL AND JUNCTION BOXES WHEREVER REQUIRED BY N.E.C. OR JOB CONDITIONS. ALL NEW WIRING SHALL BE TAGGED AT ALL PULL BOXES, JUNCTION BOXES, EQUIPMENT BOXES AND CABINETS WITH APPROVED PLASTIC TAGS. ACTION CRAFT, BRADY OR APPROVED EQUAL.
- THE CONTRACTOR SHALL INSTALL TIE HANDLES OR MULTI-POLE BREAKERS FOR ALL CIRCUITS SHARING A NEUTRAL CONDUCTOR.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH ALL TRADES FOR THE EXACT LOCATION OF EQUIPMENT AND APPURTENANCES THAT REQUIRE ELECTRICAL CONNECTIONS AND PROVIDE ALIGNMENT OF DEVICES.
- REMOVE AND INSTALL CEILING SUPPORTS AND TILES AS REQUIRED FOR THE COMPLETION OF THIS PROJECT. THIS CONTRACTOR SHALL INCLUDE REPLACEMENT OF CEILING TILES DAMAGED IN THE PROCESS OF THIS INSTALLATION WITH NEW MATCHING TILES. THE SAME APPLIES TO DAMAGE DONE TO OTHER KINDS OF CEILINGS.
- INSTALL BLANK DEVICE PLATES ON ALL UNUSED JUNCTION BOXES IN FINISHED AREAS.
- THE CONTRACTOR SHALL REPLACE ALL DAMAGED AND INOPERABLE DEVICES SUCH AS LIGHT SWITCHES, RECEPTACLES, ETC. AT NO ADDITIONAL COST THE OWNER.
- THE CONTRACTOR SHALL BE AWARE THAT ALL POWER SYSTEMS ARE OPERABLE AND SHALL REMAIN OPERABLE AT PROJECT COMPLETION. THIS REQUIRES THE CONTRACTOR TO "RING OUT" ALL CIRCUITS IN AREAS OF MODIFICATIONS PRIOR TO ANY WORK IN THESE AREAS AND TO MAINTAIN ALL SUCH BRANCH CIRCUITING AND CONTROLS OPERATIONAL AFTER MODIFICATIONS.
- INTERRUPTION OF ANY ELECTRICAL SERVICES OR SPECIAL SYSTEMS SHALL BE COORDINATED WITH THE OWNER'S REPRESENTATIVE AT LEAST SEVEN DAYS PRIOR TO THE INTENDED OUTAGE AND SHALL BE REQUESTED IN WRITING.
- ALL HOME RUN CIRCUITING TO PANELS SHALL BE .75" CONDUIT, MINIMUM.
- ALL PENETRATIONS THROUGH FIRE RATED ASSEMBLIES SHALL BE SEALED WITH FIRE STOPPING, IE. 3M BRAND CALK, PUTTY, STRIP AND SHEET FORMS, DOW CORNERING 3-6548 SILICONE RTV FOAM.
- ALL LOW VOLTAGE CONDUCTORS SHALL BE RAN IN SEPARATE RACEWAYS AS POWER CONDUCTORS (120VAC OR HIGHER PHASE TO NEUTRAL), NO EXCEPTIONS.
- ALL BRANCH AND FEEDER CIRCUIT WIRING SHALL BE COLOR CODED THROUGHOUT THE ELECTRICAL DISTRIBUTION SYSTEM AND SHALL MATCH THE EXISTING INSTALLATIONS.
- COORDINATE OUTLET COLOR PREFERENCES FOR ALL IT RACK OUTLETS WITH OWNER PRIOR TO ORDERING.

SHEET KEYED NOTES

- PROVIDE ELECTRICAL CONNECTION TO AUTOMATIC FLUSH VALVES AND FAUCETS. COORDINATE WITH MANUFACTURER FOR ROUGH-IN REQUIREMENTS. MAKE ALL REQUIRED CONNECTIONS.
- LIGHTING CONTROL RELAY PANEL. REFER TO DETAILS AND LIGHTING CONTROL SEQUENCE OF OPERATION.
- PROVIDE IN-FLOOR POWER/DATA OUTLET. REFER TO DETAILS SHEET. COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN. EXTEND .75" CONDUIT TO NEAREST FULL HEIGHT PARTITION FOR BOTH POWER AND DATA. STUB DATA ABOVE ACCESSIBLE CEILING SPACE. PROVIDE PULL STRING.
- PROVIDE GAS SOLENOID SHUT OFF AND SHUNT RECEPTACLES UNDER KITCHEN HOOD WITH FIRE SUPPRESSION SYSTEM. COORDINATE IN FIELD AND PROVIDE RELAYS AS REQUIRED. COORDINATE EMERGENCY SHUT OFF LOCATION RED MUSHROOM PUSHBUTTON WITH ARCHITECT. MAKE ALL REQUIRED INTERCONNECTIONS.
- PROVIDE ELECTRICAL CONNECTION TO CISTERN. COORDINATE WITH ARCHITECT AND LANDSCAPE.
- PROVIDE ELECTRICAL CONNECTION TO KITCHEN HOOD. MOUNT SWITCHES ON HOOD PER MANUFACTURER. MAKE ALL REQUIRED INTERCONNECTIONS TO ROOFTOP EQUIPMENT. COORDINATE WITH MECHANICAL.
- EXTEND CIRCUIT THROUGH RELAY CONTROL PANEL. COORDINATE WITH MECHANICAL FOR CONTROL SCHEDULE.

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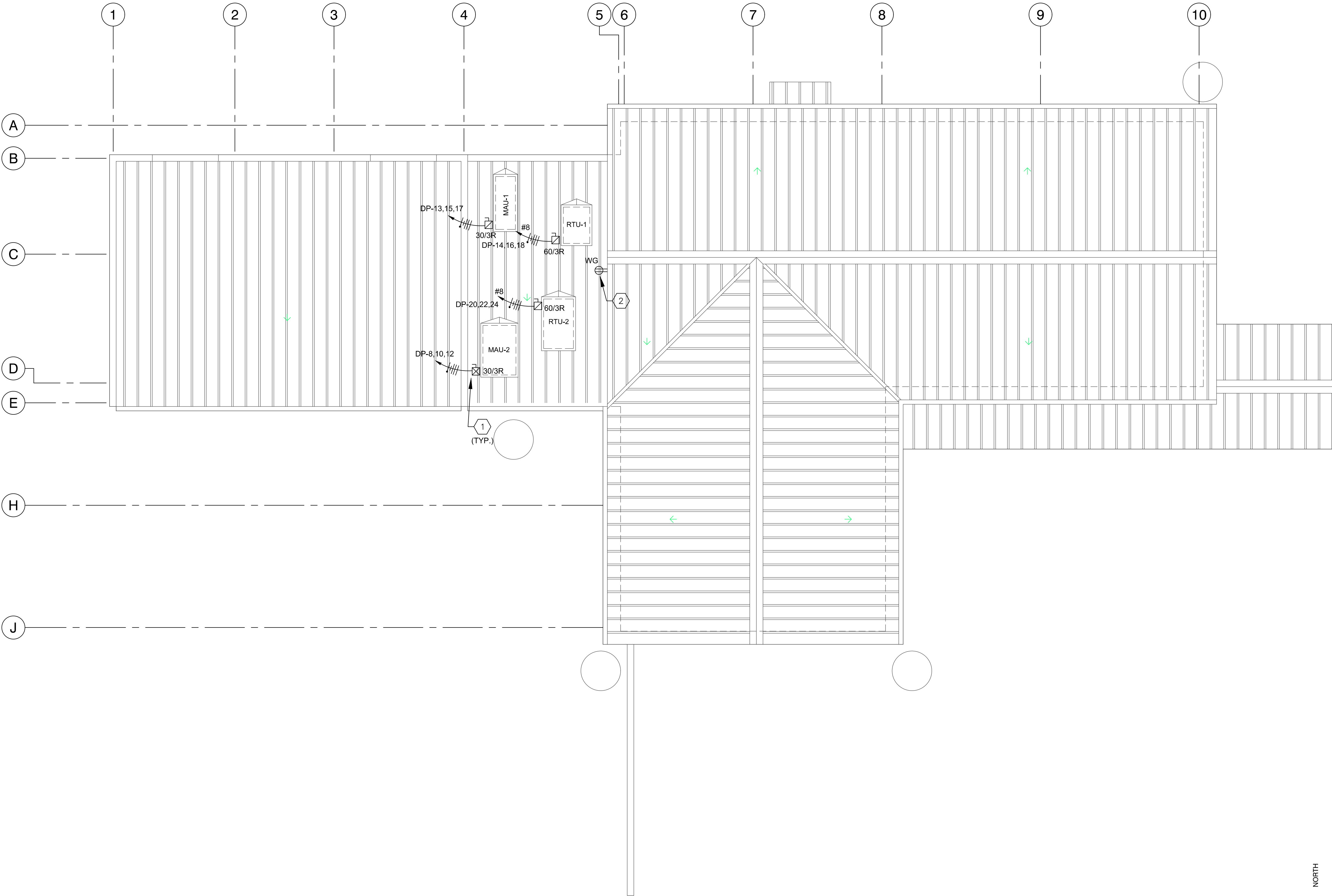
Sheet Title:
POWER PLAN

Job Number:

Sheet No.

EP101

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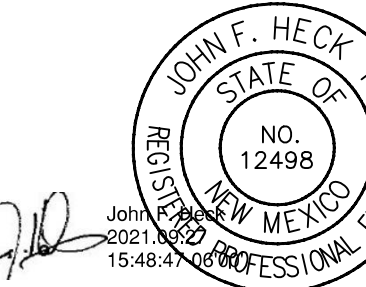
A1 ELECTRICAL ROOF PLAN

GENERAL NOTES

SHEET KEYED NOTES

1. CONDUIT TO UNITS SHALL BE RUN INSIDE OF ROOF CURBS. DO NOT PENETRATE ROOFING.
2. WEATHERPROOF RECEPTACLE ON ROOF PER NEC REQUIREMENTS. CONNECT TO NEAREST NON-SWITCHED 120V CIRCUIT.

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ELECTRICAL
ROOF PLAN

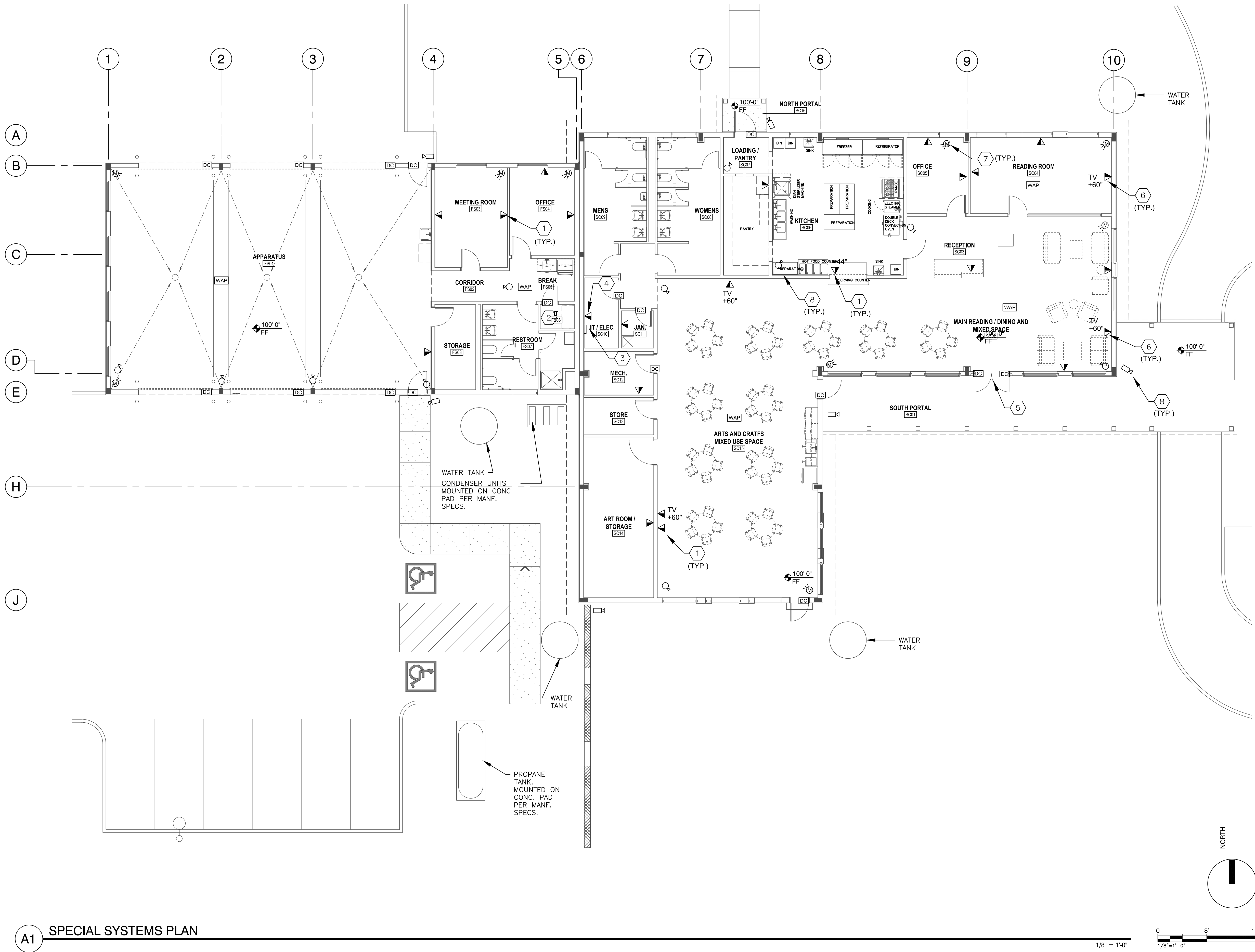
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EP131

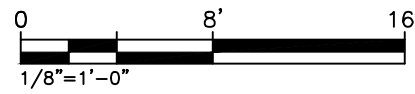
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A1 SPECIAL SYSTEMS PLAN

1/8" = 1'-0"



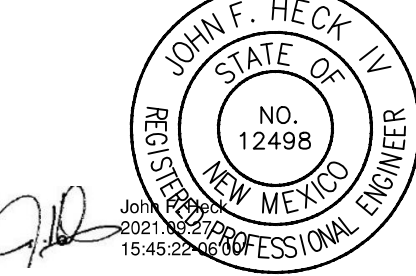
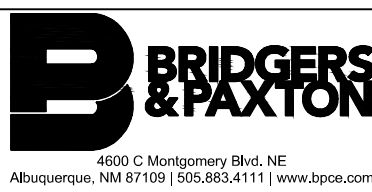
GENERAL NOTES

- A. CONTRACTOR TO COORDINATE WITH OWNER'S IT/SECURITY CONTRACTOR FOR ALL SPECIAL SYSTEMS ROUGH-IN REQUIREMENTS. CONTRACTOR TO PROVIDE BACKBOXES AND CONDUIT SYSTEMS FOR ALL DEVICES INDICATED.
 - B. COORDINATE MOUNTING HEIGHTS OF CAMERAS WITH OWNER'S IT/SECURITY CONTRACTOR PRIOR TO ROUGH-IN.
 - C. CABLING, TERMINATIONS AND DEVICES WILL BE BY OWNER'S IT/SECURITY CONTRACTOR.
 - D. OWNER'S IT/SECURITY CONTRACTOR IS RESPONSIBLE FOR INSTALLING J-HOOKS THROUGHOUT THE PROJECT.
 - E. PROVIDE COLOR CODED CONDUIT SYSTEMS FOR PER THE FOLLOWING:
 - A. RED--FIRE ALARM
 - B. BLUE -- SECURITY
 - C. YELLOW -- COMMUNICATIONS
- ADDITIONAL COLOR CODING MAY BE REQUIRED. COORDINATE WITH OWNER PRIOR TO ORDERING CONDUIT FOR EXACT COLOR REQUIREMENTS.

SHEET KEYED NOTES

- 1. PROVIDE DOUBLE GANG DEEP BOX WITH SINGLE GANG PLASTER RING. EXTEND 1" CONDUIT WITH PULL STRING TO ABOVE ACCESSIBLE CEILING SPACE. ACTIVATIONS, CABLING AND TERMINATIONS BY OTHERS.
- 2. PROVIDE 5/8" MARINE GRADE PLYWOOD AROUND PERIMETER OF ROOM FROM FLOOR TO CEILING. PAINT TO MATCH WALLS.
- 3. PROVIDE GROUNDING BUS. REFER TO GROUNDING DIAGRAM.
- 4. PROVIDE DATA CONNECTION TO LIGHTING CONTROL PANEL.
- 5. COORDINATE ADA PUSH PAD ROUGH-IN LOCATIONS WITH ARCHITECT. PROVIDE INTERCONNECTIONS TO MOTORIZED DOOR PER MANUFACTURER. REFER TO POWER PLANS.
- 6. TV LOCATION. RECESSED A/V BOX WITH ADMI, DATA AND POWER. EXTEND 1.5" CONDUIT STUBBED TO ABOVE ACCESSIBLE CEILING SPACE. PROVIDE POWER AND CONNECT TO NEAREST RECEPTACLE CIRCUIT. COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.
- 7. PROVIDE ROUGH-IN FOR MOTION SENSORS. COORDINATE ADDITIONAL REQUIREMENTS WITH OWNER'S IT/SECURITY INSTALLER.
- 8. PROVIDE ROUGH-IN FOR CCTV CAMERAS. COORDINATE ADDITIONAL REQUIREMENTS WITH OWNER'S IT/SECURITY INSTALLER.

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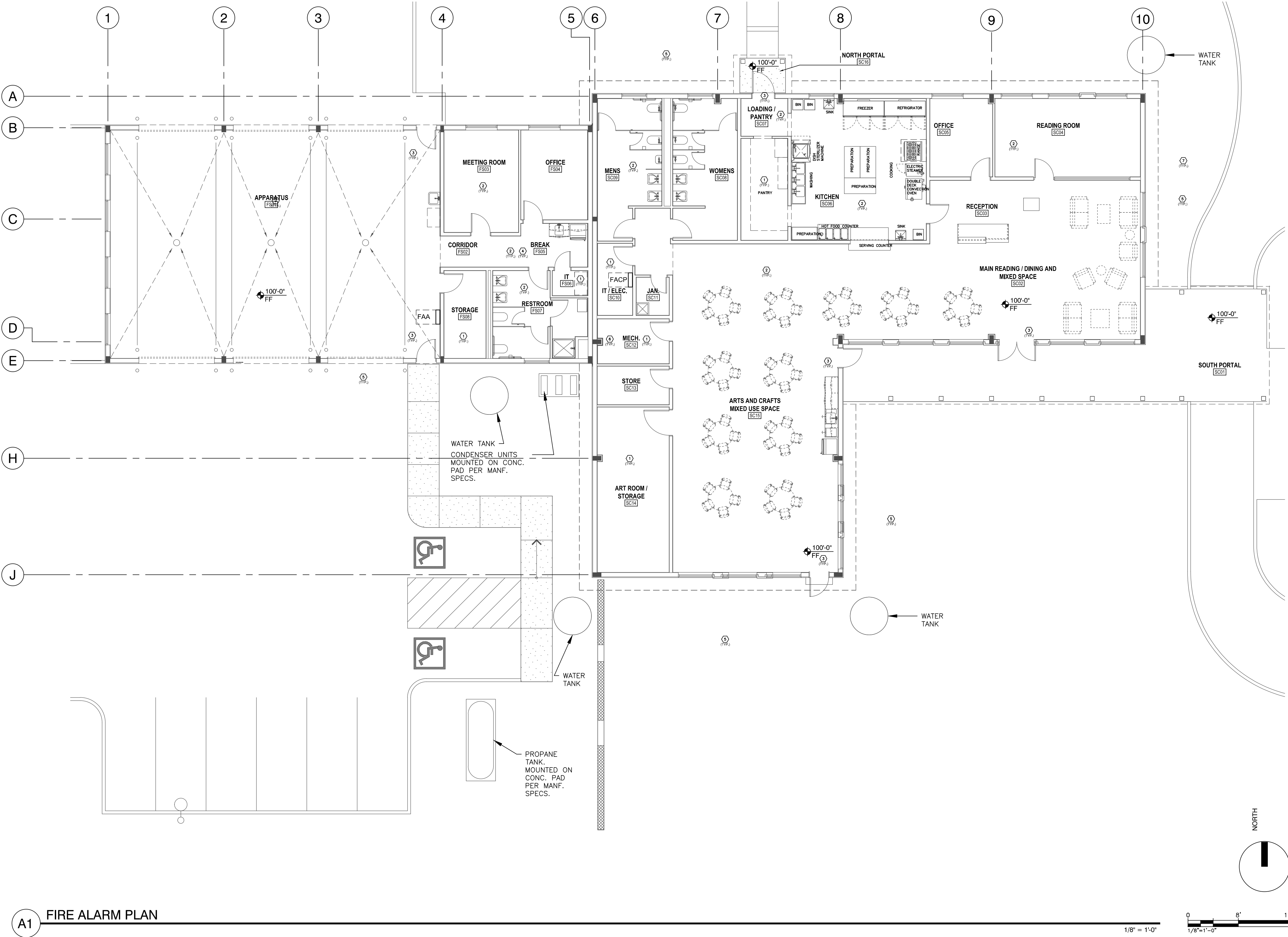
Sheet Title:
**SPECIAL
SYSTEMS PLAN**

Job Number:

Sheet No.

ET101

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- ### SHEET KEYED NOTES
1. PROVIDE DETECTION DEVICES IN ALL UN-OCCUPIED SPACES INCLUDING ELECTRICAL ROOMS, MECHANICAL ROOMS, STORAGE ROOMS, JANITOR'S CLOSETS, CORRIDORS, ETC
 2. PROVIDE SPEAKER/STROBE DEVICES IN ALL OCCUPIED AREAS PER THE REQUIREMENTS OF THE NFPA, AND LOCAL CODES.
 3. PROVIDE PULL STATIONS AT ALL EXIT DOORS.
 4. PROVIDE DUCT DETECTORS IN ALL SUPPLY AND RETURN AIR DUCTS FOR HVAC UNITS 2000 CFM AND OVER.
 5. PROVIDE 1 EXTERIOR MOUNT WEATHERPROOF SPEAKER/STROBE ON EACH FACE OF THE BUILDING THAT FACES AN ACCESS AREA.
 6. PROVIDE TAMPER AND FLOW SENSORS AT FIRE SUPPRESSION RISER. COORDINATE WITH PLUMBING.
 7. PROVIDE TAMPER SWITCH AT PIV. COORDINATE WITH CIVIL.

- ### GENERAL NOTES
- PROJECT INFORMATION:
SCOPE OF WORK: PROVIDE THE INSTALLATION, PROGRAMMING AND CONFIGURATION OF A COMPLETE DIGITAL PROTOCOL ANALOG ADDRESSABLE FIRE ALARM SYSTEM PER THE SPECIFICATIONS AND DRAWINGS. THE FIRE ALARM SYSTEM SHALL HAVE IT'S OWN INDEPENDENT DIALER.
- a. HEAT DETECTORS MAY BE OMITTED FROM NON-COMBUSTIBLE SPACES AND FROM CONCEALED COMBUSTIBLE SPACES PROVIDED WITH AN AUTOMATIC FIRE SPRINKLER SYSTEM.
 - b. HEAT DETECTORS MAY BE USED IN LIEU OF SMOKE DETECTORS IN THE FOLLOWING AREAS:
 - MECHANICAL, ELECTRICAL AND STORAGE ROOMS.
 - LABS AND OTHER AREAS WHERE EXPERIMENTS OR OTHER ACTIVITY PRODUCE FUMES OR OTHER PARTICULATES THAT WILL INITIATE "NUISANCE" ALARMS.
 - NEAR SHOWER ROOMS OR OTHER AREAS THAT PRODUCE STEAM.
 - KITCHENS WITH SMOKE OR STEAM PRODUCING EQUIPMENT.
 - CLOSETS AND SMALL STORAGE ROOMS (100 SQUARE FEET IN AREA OR LESS), OR OTHER SMALL UNCONDITIONED SPACES.
 - c. PROVIDE FIRE ALARM AND DEDICATED 120V CONNECTION TO ALL FIRE DAMPERS INDICATED ON MECHANICAL DRAWINGS. COORDINATE EXACT LOCATIONS AND QUANTITIES WITH MECHANICAL DRAWINGS. PROVIDE CONTROL RELAY, 120V COIL, 10 AMP CONTACT CONTROLLED BY FIRE ALARM PANEL.
 - d. NOT USED.
 - e. PROVIDE A CODE COMPLIANT, NICET LEVEL III DESIGN TO BE APPROVED BY THE FIRE MARSHAL. REPLACE AND ADD DEVICES AS REQUIRED TO MEET ALL NATIONAL AND LOCAL CODE REQUIREMENTS. COORDINATE IN FIELD.
 - f. INFORMATION ON CONTRACT DOCUMENTS IS FOR GENERAL INFORMATION AND BID PURPOSES ONLY. PERFORM REQUIRED CALCULATIONS AND FIELD COORDINATION AND PROVIDE ADDITIONAL DEVICES AS REQUIRED.
 - g. ADDITIONAL MATERIALS AND LABOR REQUIRED TO SUPPORT CHANGES REQUESTED BY THE AUTHORITY HAVING JURISDICTION SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.
 - h. THE CONTRACTOR MAY UTILIZE THE EXISTING RACEWAYS AND ASSOCIATED BACKBOXES WHERE APPLICABLE. PROVIDE BLANK COVERS ON ALL UNUSED BOXES.
 - i. ALL NOTIFICATION AND SIGNALING DEVICES SHALL BE RECESSED INTO WALLS.
 - j. FIRE ALARM SYSTEM DESIGN, INSTALLATION AND MATERIALS SHALL BE IN ACCORDANCE WITH NFPA 70 AND NFPA 72. SYSTEM SHALL ALSO MEET ALL APPLICABLE BUILDING CODES, FIRE CODES AND THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION AND INSURANCE CARRIER. VERIFY REQUIREMENTS PRIOR TO SHOP DRAWING SUBMITTAL.
 - k. WHERE APPLICABLE DO NOT INSTALL SMOKE DETECTORS IN A DIRECT AIR FLOW OR CLOSER THAN 3 FEET FROM AN AIR SUPPLY DIFFUSOR OR RETURN AIR OPENING.
 - l. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
 - m. INSTALLATION OF THE SYSTEMS SHALL NOT BE STARTED UNTIL DETAILED DESIGN DOCUMENTS AND SPECIFICATION, INCLUDING STATE FIRE MARSHAL LISTING NUMBERS FOR EACH COMPONENT OF THE SYSTEM HAS BEEN APPROVED BY THE ENGINEER.
 - n. A STAMPED SET OF APPROVED FIRE ALARM DESIGN DOCUMENTS SHALL BE ON THE JOB SITE AND USED FOR INSTALLATION.
 - o. WALL MOUNTED VISUAL NOTIFICATION DEVICES SHALL HAVE THEIR BOTTOMS MOUNTED AT 80" MINIMUM AND 96" MAXIMUM FROM FINISHED FLOOR.
 - p. WALL MOUNTED AUDIBLE NOTIFICATION DEVICES SHALL HAVE THEIR TOPS MOUNTED AT 90" MINIMUM AND 100" MAXIMUM FROM FINISHED FLOOR AND NO CLOSER THEN 6" TO A HORIZONTAL STRUCTURE.
 - q. THE CONTRACTOR SHALL ADJUST/INSTALL ALL DEVICES TO MAXIMIZE PERFORMANCE AND TO MINIMIZE FALSE ALARMS.
 - r. ALL FIRE ALARM WIRING SHALL BE INSTALLED IN CONDUIT THROUGHOUT. BARE CABLES INSTALLED IN PLENUM SPACES ARE NOT ACCEPTABLE.
 - s. SMOKE DETECTORS SHALL NOT BE ANY CLOSER THAN 1" FROM FIRE SPRINKLERS OR 3' FROM ANY SUPPLY DIFFUSER. IN AREA OF CONSTRUCTION OR POSSIBLE DAMAGE/CONTAMINATION ON NEWLY INSTALLED FIRE ALARM DEVICES SHALL BE COVERED UNTIL THAT AREA IS READY TO BE TURNED OVER TO THE OWNER.
 - t. FIRE ALARM PANEL, REMOTES, AND COMPONENTS SHALL BE SECURED TO MOUNTING SURFACES PER MANUFACTURERS SPECIFICATIONS. NO SINGLE DEVICE SHALL EXCEED THE WEIGHT OF 20 LBS. WITHOUT SPECIAL MOUNTING DETAILS.
 - u. A DEDICATED BRANCH CIRCUIT SHALL BE PROVIDED FOR FIRE ALARM EQUIPMENT. THIS CIRCUIT SHALL BE ENERGIZED FROM THE COMMON USE AREA PANEL AND SHALL HAVE NO OTHER OUTLETS. THE BREAKER SHALL HAVE A RED LOCKING DEVICE TO BLOCK THE HANDLE IN THE "ON" POSITION. THE CIRCUIT BREAKER SHALL BE LABELED "FIRE ALARM CIRCUIT CONTROL". CIRCUIT ID TO BE LABELED AT FIRE PANEL /EXTENDERS.
 - v. THE INSTALLING CONTRACTOR SHALL PROVIDE A RECORD OF COMPLETION PER NFPA 72, FIGURE 10.18.2.1.1. 22) CONTROL PANELS, REMOTE ANNUNCIATORS SHALL BE INSTALLED WITH THEIR BOTTOMS MOUNTED AT 48".
 - w. OWNER SHALL BE RESPONSIBLE FOR ESTABLISHING A FIRE SYSTEM MONITORING CONTRACT OR PROVISIONS.
 - x. ARCHITECT/ENGINEER AND OWNER SHALL BE NOTIFIED A MINIMUM OF 48 HOURS PRIOR TO THE FINAL INSPECTION AND /OR TESTING.
 - y. UPON COMPLETION OF THE INSTALLATION OF THE SYSTEMS, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN ACCORDANCE WITH THE SPECIFICATIONS.

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07-25-2022

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CERILLOS SENIOR CENTER AND TURQUOISE TRAIL # 3 FIRE STATION

LOT 3, SECTION 17, T.14N., R.8E., N.M.P.M.
SANTA FE COUNTY, NEW MEXICO

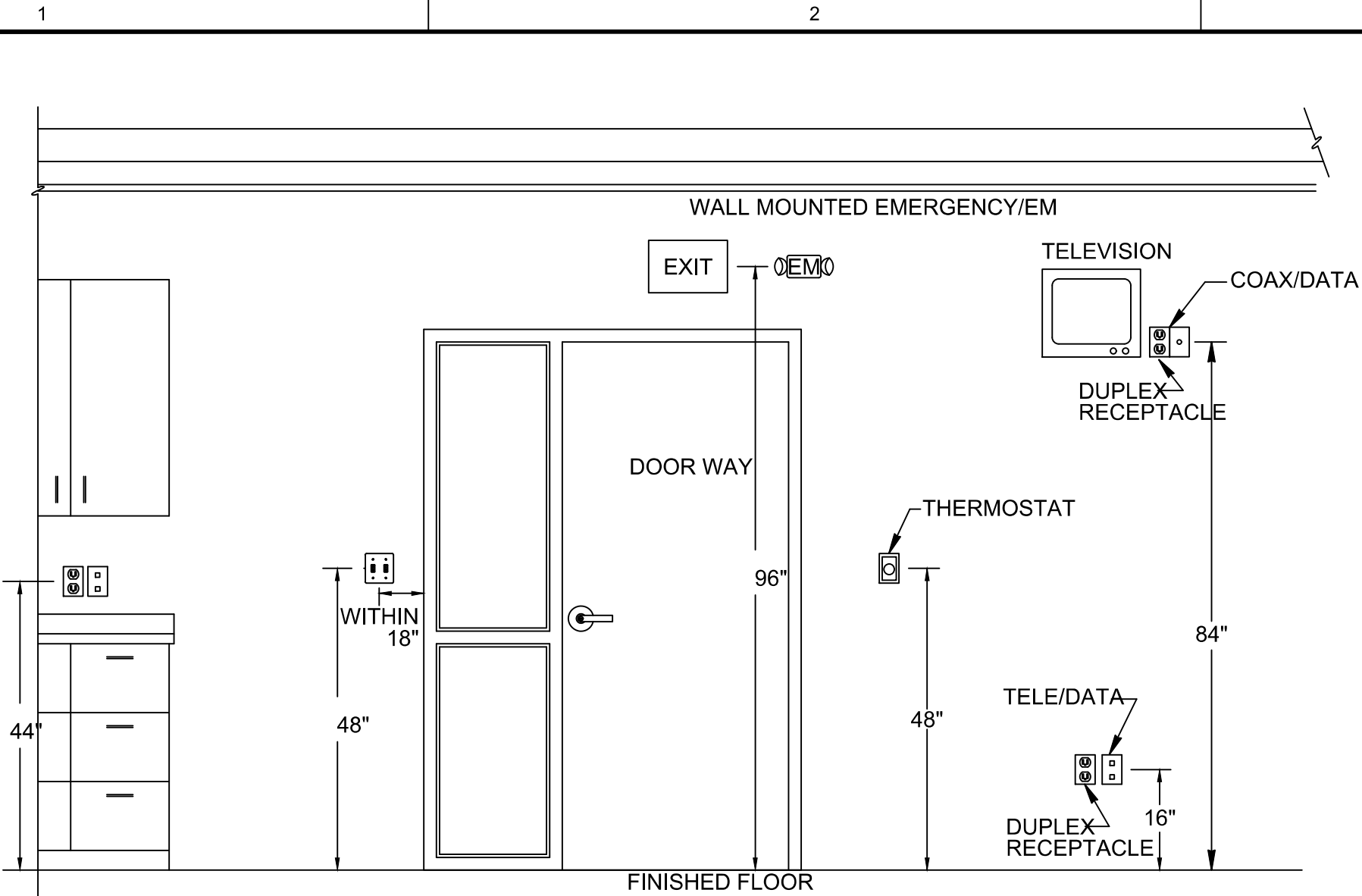
Current Status:
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Drawn by: JSM
Checked by: JFH
Date: 09-27-21
Sheet Title:
FIRE ALARM PLAN

Job Number:
Sheet No.
FA101

Date: Sep 27, 2021 11:36am User: JSM Drawing File: H:\ABQ\8357\CAD\AutoCAD\8357 - Santa Fe County, Cerrillos Senior Center\Sheets\Electrical\8357-E-501.dwg Last Saved By: JSMetling Sep 01, 2021 1:59pm Layout Name: E501 ELECTRICAL DETAILS

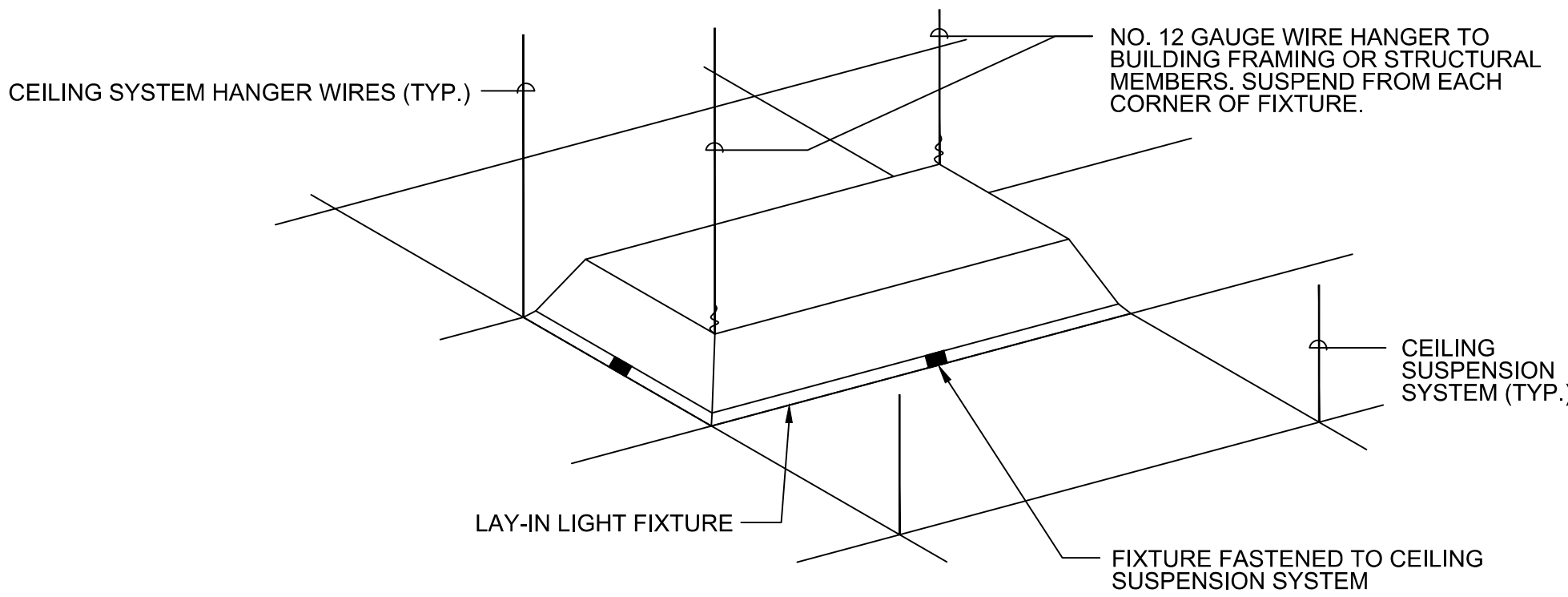


NOTES:

1. THE ELECTRICAL CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL TELEVISION OUTLETS WITH THE ARCHITECT PRIOR TO INSTALLATION.
2. ALL DEVICES SHOWN ON THIS DETAIL ARE FOR REFERENCES OF MOUNTING HEIGHTS ONLY. THE ELECTRICAL CONTRACTOR SHALL FIELD ADJUST THE HEIGHTS OF THE DEVICES AS REQUIRED FOR PROPER MOUNTING OF THE DEVICES.
3. ALL DEVICES REQUIRED FOR THIS PROJECT MAY NOT APPEAR ON THIS DETAIL. ALL ITEMS SHOWN ON THIS DETAIL MAY NOT BE REQUIRED FOR THIS PROJECT.

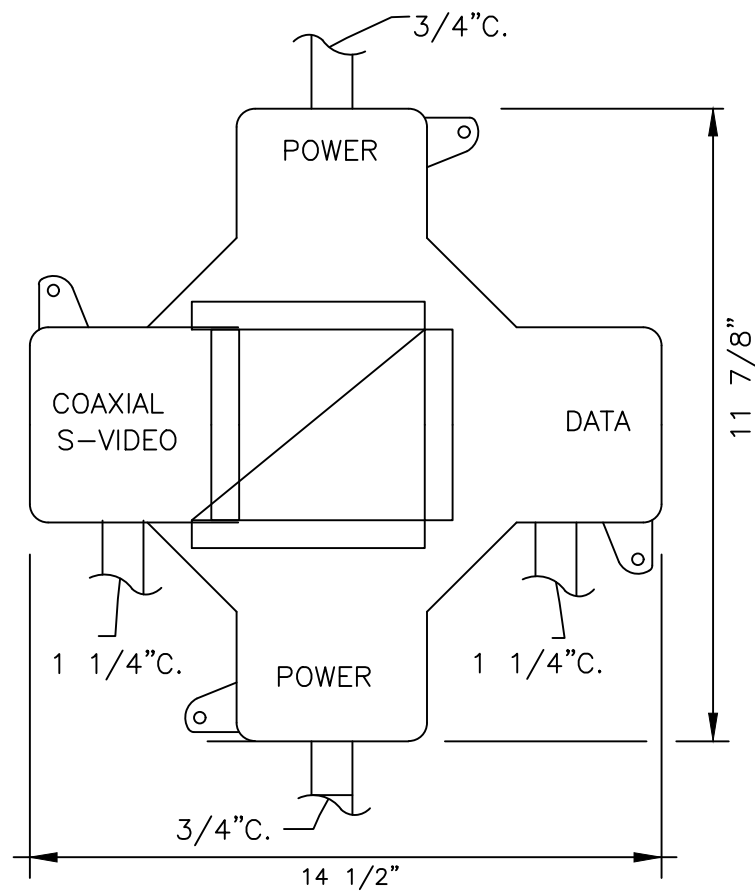
DEVICE MOUNTING HEIGHT DETAIL

SCALE: NONE



LUMINAIRE SUPPORT DETAIL

SCALE: NONE

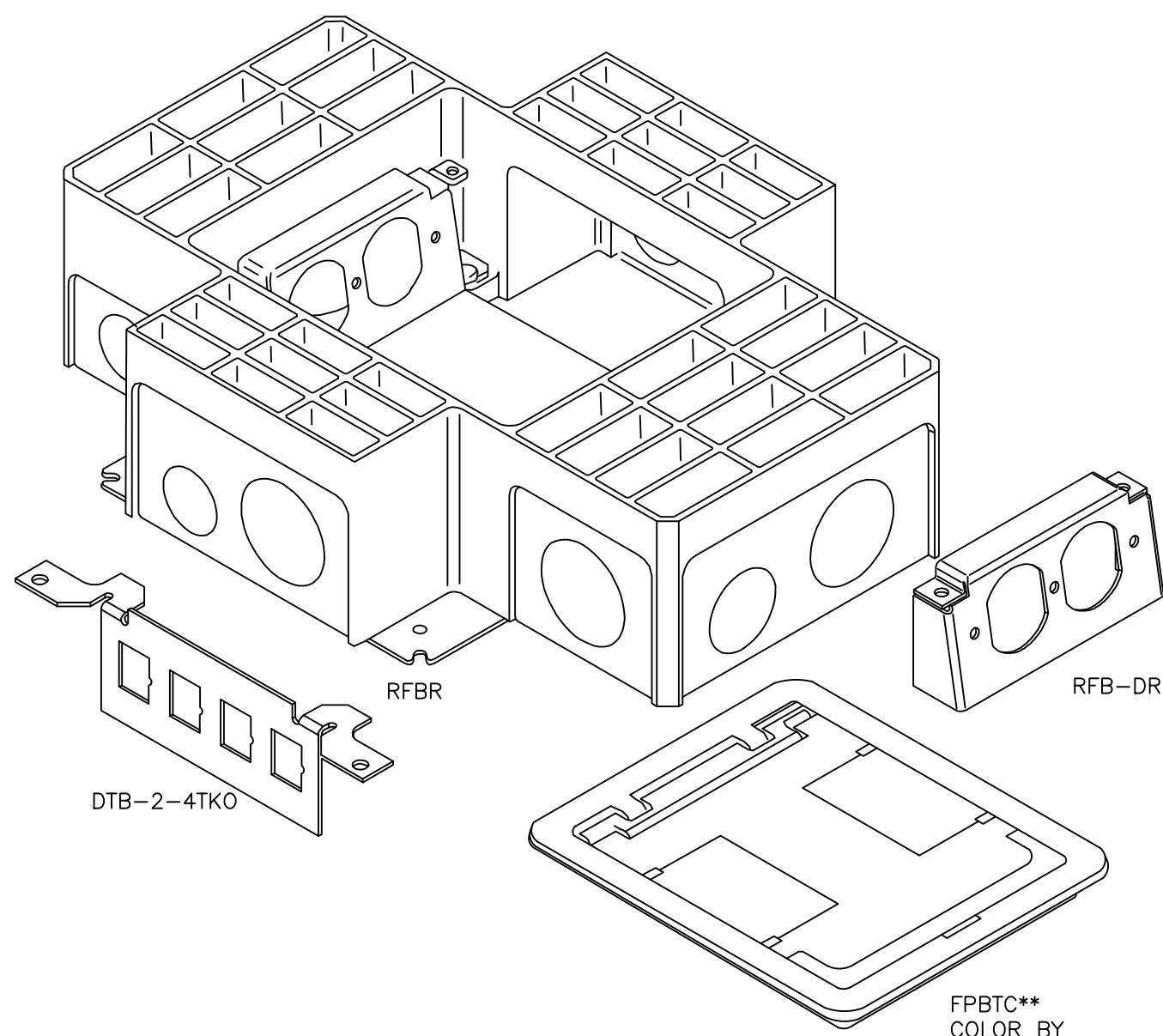


NOTE: BOX COVER FINISH SHALL BE BRUSHED ALUMINUM. REFER TO POWER PLAN SHEETS FOR BOX COVER MODEL.

RFB4 RECESSED FLOOR BOX

SCALE: NONE

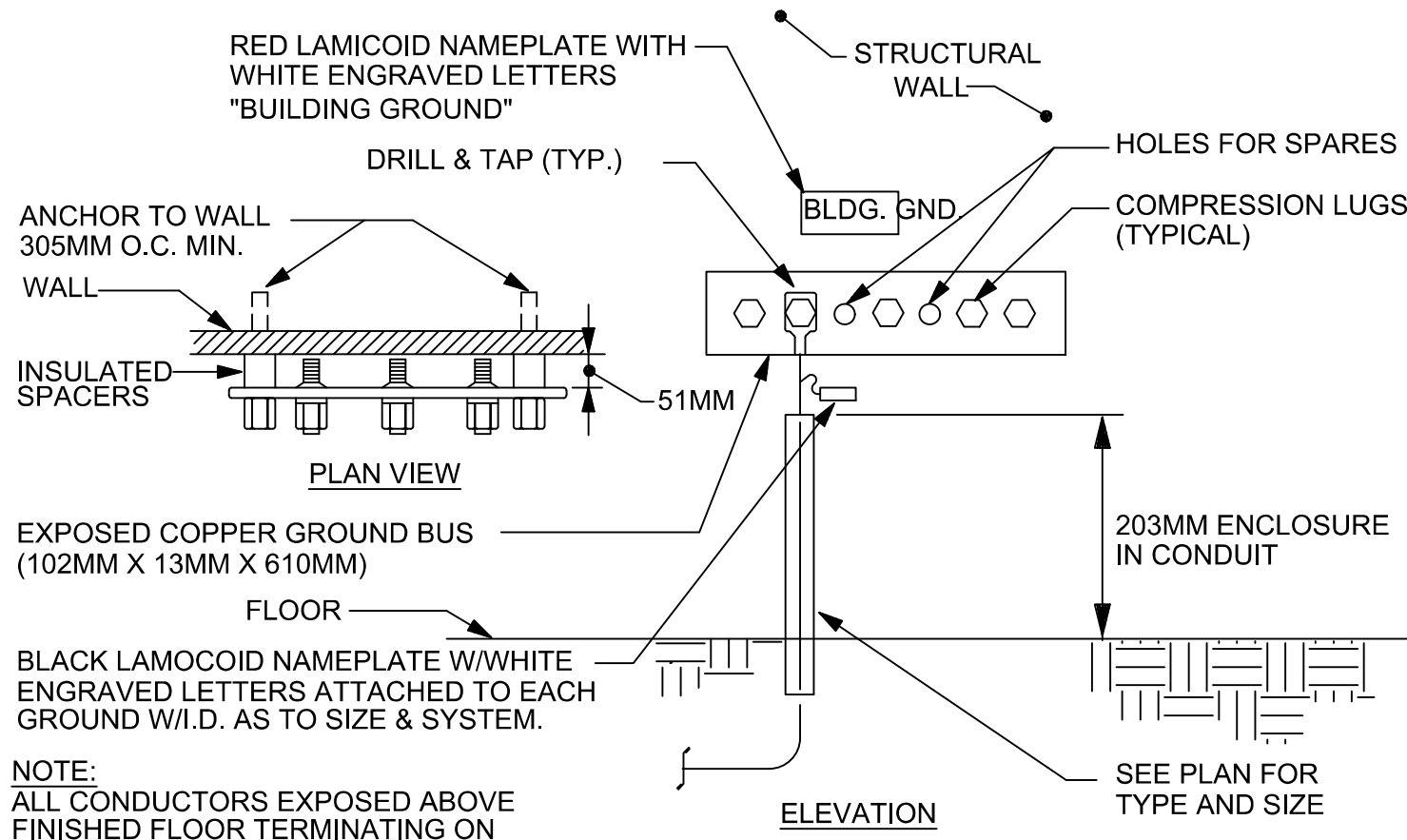
NOTE: REFER TO SPECIAL SYSTEM DRAWINGS FOR CONDUIT SIZES



RFB4 RECESSED FLOOR BOX DETAIL

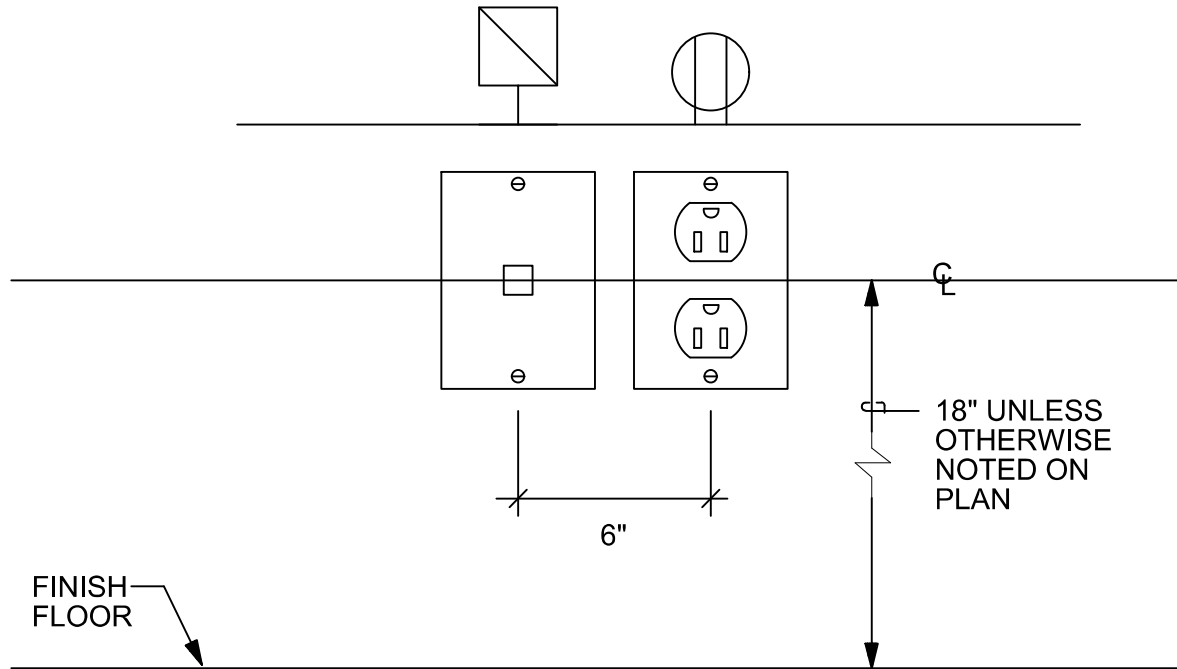
SCALE: NONE

PROVIDE ADDITIONAL COMPONENTS PER MANUFACTURER FOR A COMPLETE AND OPERATIONAL INSTALLATION



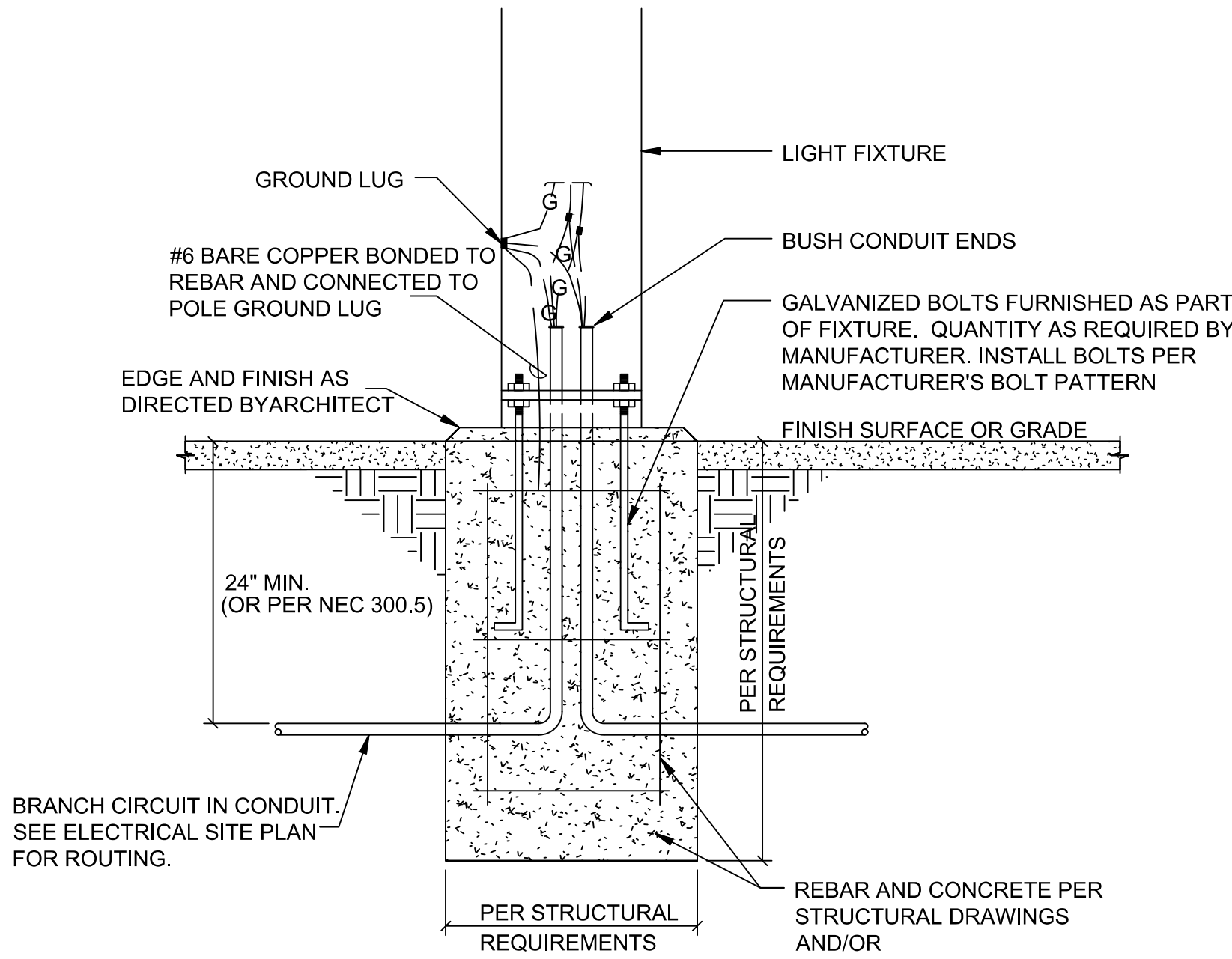
GROUNDING BUS BAR DETAIL

SCALE: NONE



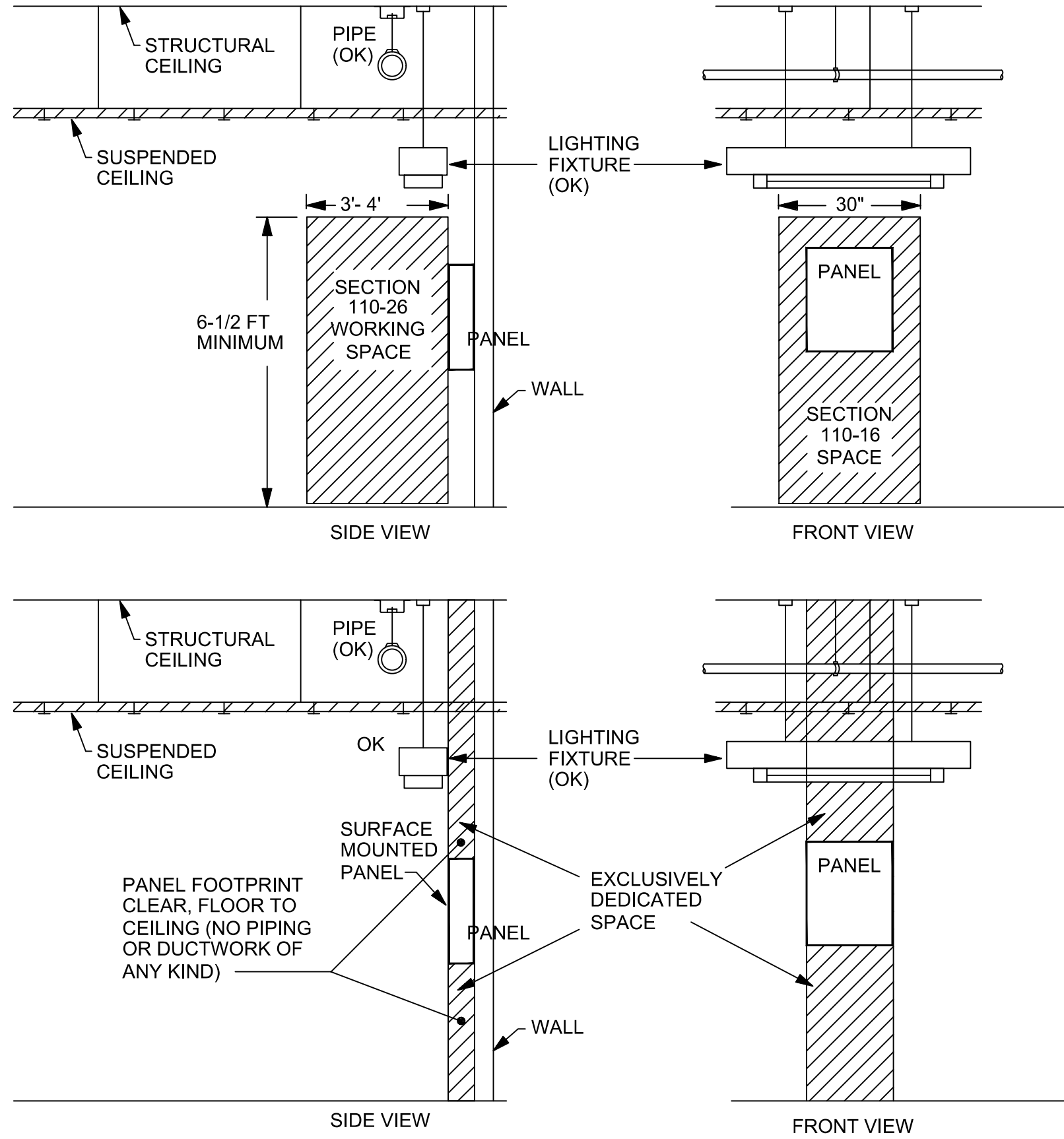
GROUPED WALL OUTLETS - TYPICAL SPACING DETAIL

SCALE: NONE



POLE BASE FLUSH DETAIL

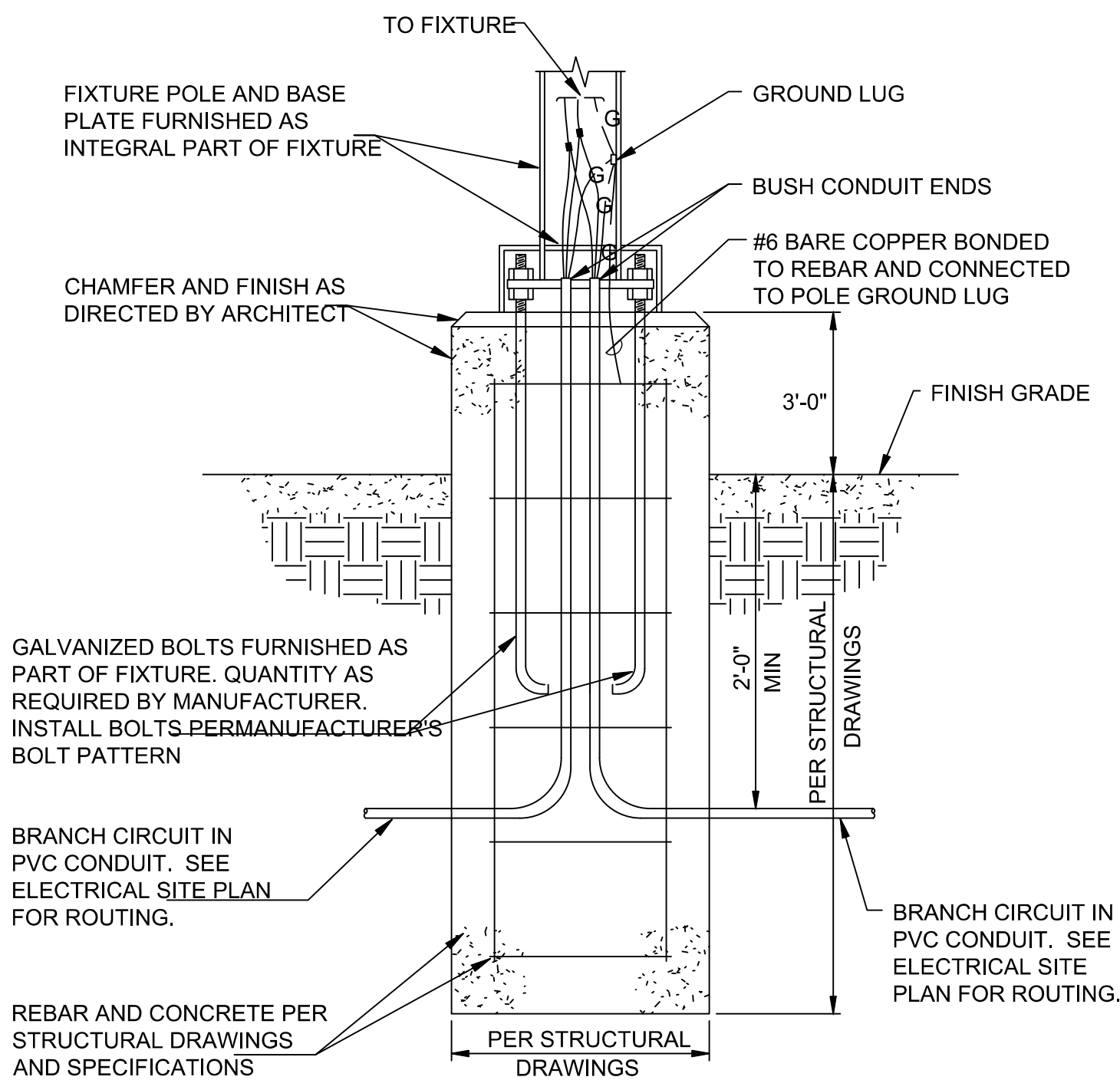
SCALE: NONE



NOTE: DIVISIONS 15 AND 16 SHALL COORDINATE EQUIPMENT INSTALLATION IN FIELD TO ENSURE ALL N.E.C. CLEARANCES ARE MAINTAINED

POWER PANEL CLEARANCE DIAGRAM

SCALE: NONE



POLE BASE DETAIL

SCALE: NONE

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CERILLOS SENIOR CENTER
AND TURQUOISE TRAIL # 3
FIRE STATION

LOT 3, SECTION 17, T. 14N., R. 8E., N.M.P.M.
SANTA FE COUNTY, NEW MEXICO

Current Status:

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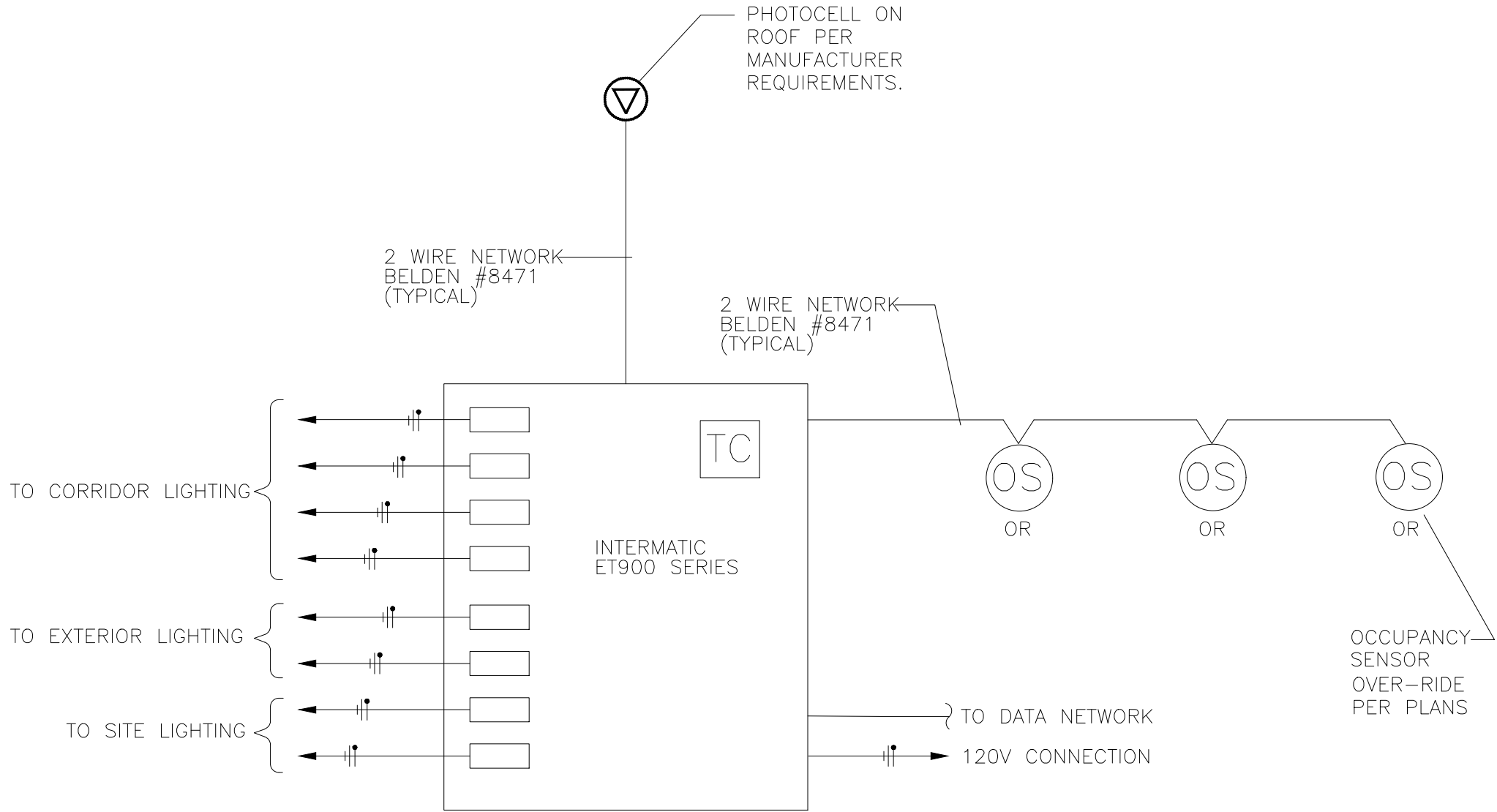
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DETAILS

Job Number:

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E501



RELAY LIGHTING CONTROL PANEL DIAGRAM

SCALE: NONE

LIGHTING SEQUENCE OF OPERATION

IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ALL COMPONENTS OF THE LIGHTING CONTROL EQUIPMENT DESCRIBED HEREIN AND TO ENSURE A COMPLETE AND OPERATIONAL INSTALLATION. WHERE LIGHTING CONTROL EQUIPMENT DETAILS OR DIAGRAMS HAVE BEEN INDICATED ON THE DRAWINGS IT IS THE INTENT THAT THOSE SYSTEMS ARE BEING REFERENCED AS A BASIS OF DESIGN ONLY UNLESS SPECIFICALLY STATED OTHERWISE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ADDITIONAL COMPONENTS AND EQUIPMENT WHERE REQUIRED TO MEET THE INTENT OF THE SYSTEMS DESCRIBED BELOW. WHERE STATED, THE SYSTEMS DESCRIBED OR INDICATED AS "NO EQUAL" SHALL BE PROVIDED AS DESCRIBED WITHOUT SUBSTITUTION. THE CONTRACTOR SHALL PROVIDE A COMPLETE SUBMITTAL FOR ALL LIGHTING CONTROLS BEING PROVIDED TO THE PROJECT. IT IS THE RESONSIBILITY OF THE CONTRACTOR TO COORDINATE 0-10V DIMMING AND OTHER ELECTRONIC SWITCHES AND EQUIPMENT TO ENSURE COMPATIBILITY TO THE FIXTURE MANUFACTURERS THEY ARE MEANT TO CONTROL.

SHOP DRAWINGS SHALL BE PROVIDED BY THE MANUFACTURER OR THEIR REPRESENTATIVES INDICATING RANGE AND PLACEMENT OF THE OCCUPANCY SENSORS FOR EACH SPACE PRIOR TO ROUGH-IN AND SHALL INCLUDE WIRING DIAGRAMS FOR EACH SYSTEM DESCRIBED BELOW. ADDITIONAL SENSORS OR EQUIPMENT MAY BE REQUIRED BASED ON THE MANUFACTURER'S RECOMMENDATIONS. OCCUPANCY SENSORS SHALL NOT BE LOCATED ADJACENT HVAC REGISTERS OR RETURN AIR GRILLES. THIS SHALL BE COORDINATED IN THE FIELD PRIOR TO ROUGH-IN WITHOUT EXCEPTION.

WHERE PHOTOSENSORS ARE INDICATED, THE PHOTOSENSORS SHALL CONTROL THE LIGHTING LEVELS OF THE FIXTURES INDICATED AT A MAXIMUM LIGHTING LEVEL INDICATED. PLACEMENT OF THE PHOTOSENSORS SHALL BE COORDINATED WITH THE MANUFACTURER SHOP DRAWINGS.

COORIDORS/OPEN OFFICE AREAS

COORIDORS SHALL BE CONTROLLED THROUGH A MULTI POLE LINE VOLTAGE RELAY PANEL WITH INTEGRAL TIME CLOCK AS INDICATED ON THE DRAWINGS OR SPECIFICATIONS. ADDITIONAL SUB RELAY PANELS SHALL BE LOCATED AS INDICATED ON THE DRAWINGS. THE RELAY PANEL SHALL BE CONNECTED TO THE LOCAL NETWORK PER THE MANUFACTURER AND OWNER'S IT DEPARTMENT. THE CONNECTIONS SHALL BE COORDINATED WITH THE OWNER'S IT DEPARTMENT FOR A STATIC IP ADDRESS PROVIDED AND PROGRAMMED BY THE OWNER.

ALL COORIDORS, OPEN OCCUPANT AREAS SHALL BE CONTROLLED WITH THE TIMECLOCK FUNCTION. AS AN EXAMPLE, LIGHTING FIXTURES SHALL TURN ON AT 7:00AM AND OFF AT 8:00PM ON WEEKDAYS AND SHALL REMAIN OFF DURING WEEKENDS. FINAL HOURS OF OPERATION SHALL BE COORDINATED WITH THE BUILDING OWNER OR OCCUPANTS AND SHALL BE ADJUSTED ACCORDINGLY. KEYED SWITCHES AND OR OCCUPANCY SENSOR OVERRIDE SHALL BE INSTALLED AS INDICATED ON THE DRAWINGS TO TURN THE ASSOCIATED LIGHTING ON DURING NON WORKING HOURS FOR A 2 HOUR PERIOD. AT THE END OF THIS PERIOD, THE ASSOCAITED LIGHTING SHALL BLINK TWICE TO ALERT THE OCCUPANTS THAT THE SYSTEM IS RETURNING TO A NON-OCCUPIED STATE. NIGHT LIGHTING FIXTURES CONNECTED NON SWITCHED SHALL BE PROVIDED THROUGHOUT THE CORRIDORS AND OPEN OFFICE AREAS TO ALLOW OCCUPANTS TO FIND THEIR WAY TO THE KEYED SWITCH OVERRIDES TO OVERRIDE THE SYSTEM BACK TO AN ENERGIZED STATE IF NECESSARY.

OFFICES, CONFERENCE SPACES

THESE AREAS SHALL BE CONTROLLED "LOCALLY" WITHOUT INTERCONNECTION TO ANY OTHER CONTROLS SYSTEM. EACH SPACE SHALL BE PROVIDED WITH IT'S OWN DUAL TECHNOLOGY OCCUPANCY SENSORS SET IN VACANCY MODE AND A LOCALIZED OVERRIDE SWITCH TO TURN THE FIXTURES OFF ONLY. THE SWITCH SHALL NOT OVERRIDE THE FUNCTION OF THE OCCUPANCY SENSOR. SENSORS SHALL BE SET FOR 10 MINUTES OF UNOCCUPIED TIME BEFORE TURNING THE ASSOCIATED FIXTURES OFF. 0-10V DIMMING SWITCHES SHALL BE INSTALLED WHERE INDICATED TO PROVIDE ADDITIONAL LIGHTING LEVEL CONTROLS.

CLASSROOMS, SEMINAR ROOMS

THESE AREAS SHALL BE CONTROLLED "LOCALLY" WITHOUT INTERCONNECTION TO ANY OTHER CONTROLS SYSTEM IN THE BUILDING UNLESS SPECIFICALLY INDICATED. MULTIPLE ZONES SHALL BE PROVIDED AS INDICATED ON THE PLANS. EACH SPACE SHALL BE PROVIDED WITH IT'S OWN DUAL TECHNOLOGY OCCUPANCY SENSORS SET IN VACANCY MODE WITH LOCALIZED 0-10V DIMMING SWITCHES PROVIDED AS INDICATED ON THE PLANS. STEPPED DIMMING IS NOT ACCEPTABLE. ADDITIONAL OCCUPANCY SENSORS SHALL BE PROVIDED IN LARGE AREAS THAT EXCEED THE OCCUPANCY SENSOR'S RANGE OF MOTION AND SHALL BE SUBMITTED WITH THE SHOP DRAWINGS.

KITCHEN

KITCHEN AREAS SHALL BE CONTROLLED VIA AN ON OFF SWITCH ONLY FOR SAFETY.

RESTROOMS

RESTROOMS SHALL BE EQUIPPED WITH DUAL-TECHNOLOGY OCCUPANCY SENSORS AS INDICATED ON THE DRAWINGS. LOCAL SWITCHING SHALL BE OMITTED FROM THESE AREAS UNLESS INDICATED OTHERWISE. SENSORS SHALL BE SET FOR 15 MINUTES.

STORAGE AREAS/JANITORS CLOSETS

STORAGE AREAS SHALL BE EQUIPPED WITH INFRA-RED TYPE OCCUPANCY SENSORS SET FOR 5 MINUTES.

EXTERIOR LIGHTING

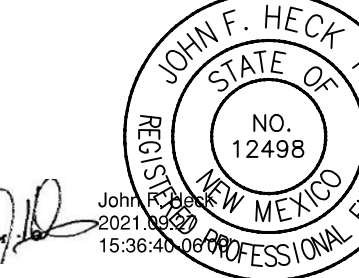
EXTERIOR LIGHTING SHALL BE CIRCUITED THROUGH THE ASSOCIATED RELAY LIGHTING CONTROL PANEL. EXTERIOR LIGHTING SHALL TURN ON VIA PHOTOCELL CONTROL AND OFF WITH THE INTEGRAL TIMECLOCK IN THE LIGHTING CONTROL PANEL. REFER TO ELECTRICAL SITE PLAN FOR LOCATION OF FIXTURES AND ASSOCIATED CIRCUITING. WHERE INDICATED PROVIDE DIMMING RELAYS TO ACCOMMODATE PARKING LOT DIMMING.

MECHANICAL AND ELECTRICAL ROOMS

LOCAL CONTROL SHALL CONSIST OF ON-OFF SWITCHING ONLY FOR SAFETY.

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CERILLOS SENIOR CENTER
AND TURQUOISE TRAIL # 3
FIRE STATION
LOT 3, SECTION 17, T.14N., R.8E., N.M.P.M.
SANTA FE COUNTY, NEW MEXICO

Current Status:

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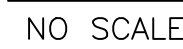
Sheet Title:

ELECTRICAL
DETAILS

Job Number:

Sheet No.

E502



AIC CALCULATION	
PANEL	AVAILABLE FAULT CURRENT
DP	24286.23
A	23348.11
K	17339.59
FS	11987.98

COPPER FEEDER SCHEDULE				
NOTE: ALL CONDUCTORS ARE COPPER, TYPE THWN/THHN UNLESS OTHERWISE NOTED.				
DESIGNATION	CONDUCTORS	GROUND	CONDUIT	NOTES
THREE PHASE THREE WIRE & GROUND FEEDER				
20Δ	3#12	12	3/4"	
25Δ	3#10	10	3/4"	
30Δ	3#10	10	3/4"	
35Δ	3#8	10	3/4"	
40Δ	3#8	10	3/4"	
45Δ	3#8	10	3/4"	
50Δ	3#8	10	3/4"	
60Δ	3#6	10	1"	
70Δ	3#4	8	1 1/4"	
80Δ	3#4	8	1 1/4"	
90Δ	3#2	8	1 1/4"	
100Δ	3#2	8	1 1/4"	
125Δ	3#1	6	1 1/2"	
150Δ	3#1/0	6	1 1/2"	
175Δ	3#2/0	6	2"	
200Δ	3#3/0	6	2"	
225Δ	3#4/0	4	2 1/2"	
250Δ	3-250 KCMIL	4	3"	
300Δ	3-350 KCMIL	4	3"	
350Δ	3-500 KCMIL	2	4"	
400Δ	3-500 KCMIL	2	4"	
450Δ	(2) 3#4/0	(2) 2	(2) 2 1/2"	
500Δ	(2) 3-250 KCMIL	(2) 2	(2) 3"	
600Δ	(2) 3-350 KCMIL	(2) 1	(2) 3"	
700Δ	(2) 3-500 KCMIL	(2) 1/0	(2) 4"	
800Δ	(3) 3-300 KCMIL	(3) 1/0	(3) 4"	
1000Δ	(3) 3-400 KCMIL	(3) 2/0	(3) 3"	
1200Δ	(4) 3-300 KCMIL	(4) 3/0	(4) 3"	
1600Δ	(5) 3-400 KCMIL	(5) 4/0	(5) 4"	
2000Δ	(6) 3-400 KCMIL	(6) 250 KCMIL	(6) 4"	
2500Δ	(7) 3-500 KCMIL	(7) 350 KCMIL	(7) 4"	
3000Δ	(8) 3-500 KCMIL	(8) 400 KCMIL	(8) 4"	
4000Δ	(11) 3-500 KCMIL	(1) 500 KCMIL	(11) 4"	
THREE PHASE FOUR WIRE & GROUND FEEDER				
20Y	4#12	12	3/4"	
25Y	4#10	10	3/4"	
30Y	4#10	10	3/4"	
35Y	4#8	10	3/4"	
40Y	4#8	10	3/4"	
45Y	4#8	10	3/4"	
50Y	4#8	10	3/4"	
60Y	4#6	10	1"	
70Y	4#4	8	1 1/4"	
80Y	4#4	8	1 1/4"	
90Y	4#2	8	1 1/4"	
100Y	4#2	8	1 1/4"	
125Y	4#1	6	1 1/2"	
150Y	4#1/0	6	2"	
175Y	4#2/0	6	2"	
200Y	4#3/0	6	2"	
225Y	4#4/0	4	2 1/2"	
250Y	4-250 KCMIL	4	3"	
300Y	4-350 KCMIL	4	3"	
350Y	4-500 KCMIL	2	4"	
400Y	4-500 KCMIL	2	4"	
450Y	(2) 4#4/0	(2) 2	(2) 2 1/2"	
500Y	(2) 4-250 KCMIL	(2) 2	(2) 3"	
600Y	(2) 4-350 KCMIL	(2) 1	(2) 3"	
700Y	(2) 4-500 KCMIL	(2) 1	(2) 4"	
800Y	(3) 4-300 KCMIL	(3) 1	(3) 3"	
1000Y	(3) 4-400 KCMIL	(3) 2/0	(3) 3"	
1200Y	(4) 4-350 KCMIL	(4) 3/0	(4) 4"	
1600Y	(5) 4-400 KCMIL	(5) 4/0	(5) 4"	
2000Y	(6) 4-400 KCMIL	(6) 250 KCMIL	(6) 4"	
2500Y	(7) 4-500 KCMIL	(7) 350 KCMIL	(7) 4"	
3000Y	(8) 4-500 KCMIL	(8) 400 KCMIL	(8) 4"	
4000Y	(11) 4-500 KCMIL	(11) 500 KCMIL	(11) 4"	
5000Y	(14) 4-500 KCMIL	(14) 700 KCMIL	(14) 4"	

1. PROVIDE AND INSTALL MULTI FUNCTION SUB METERING CAN TO HOUSE 4 METERS. PROVIDE DATA/NETWORK CONNECTIONS PER MANUFACTURER REQUIREMENTS AND COA COMMUNICATION REQUIREMENTS. EXTEND CONDUIT AND CT WIRING AS REQUIRED. PROVIDE CT'S FOR PANEL FEEDERS TO MEASURE ASSOCIATED LOADS FOR SYSTEMS INDICATED. CT'S SHALL BE PROVIDED BY METERING MANUFACTURER. INTEGRATED MULTIPLE METER ENCLOSURE. METERS SHALL BE REVENUE CERTIFIED WITH .2% ACCURACY. INTEGRAL FUSE BLOCK AND SHORTING BLOCKS. COMMUNICATION SERVER TO ALLOW CONNECTION TO NETWORK FOR ACCESS TO METER DATA VIA AN INTEGRATED WEBSERVER. NO SOFTWARE SHALL BE REQUIRED OR ALLOWED. DIRECT CONNECTION TO POWERSMITHS WOW SUSTAINABILITY PLATFORM. INTEGRAL SUPPORT FOR COMMUNICATING WITH BAS VIA INTEGRAL MODBUS RTU. MODBUS TCP AND BACNET IP. 6 DIGITAL INPUTS TO MONITORING/REPORT VALUES FROM EXTERNAL SOURCES. CYBERHAWK-200M-6P-240/120-.2%-EM.

710
John F. Heck
2021.05.27
16:11:10 0508

CERILLOS SENIOR CENTER
AND TURQUOISE TRAIL # 3
FIRE STATION
LOT 3, SECTION 17, T. 14N., R. 8E., N.M.P.M.
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Sheet Title

ELECTRICAL DIAGRAMS

Job Number

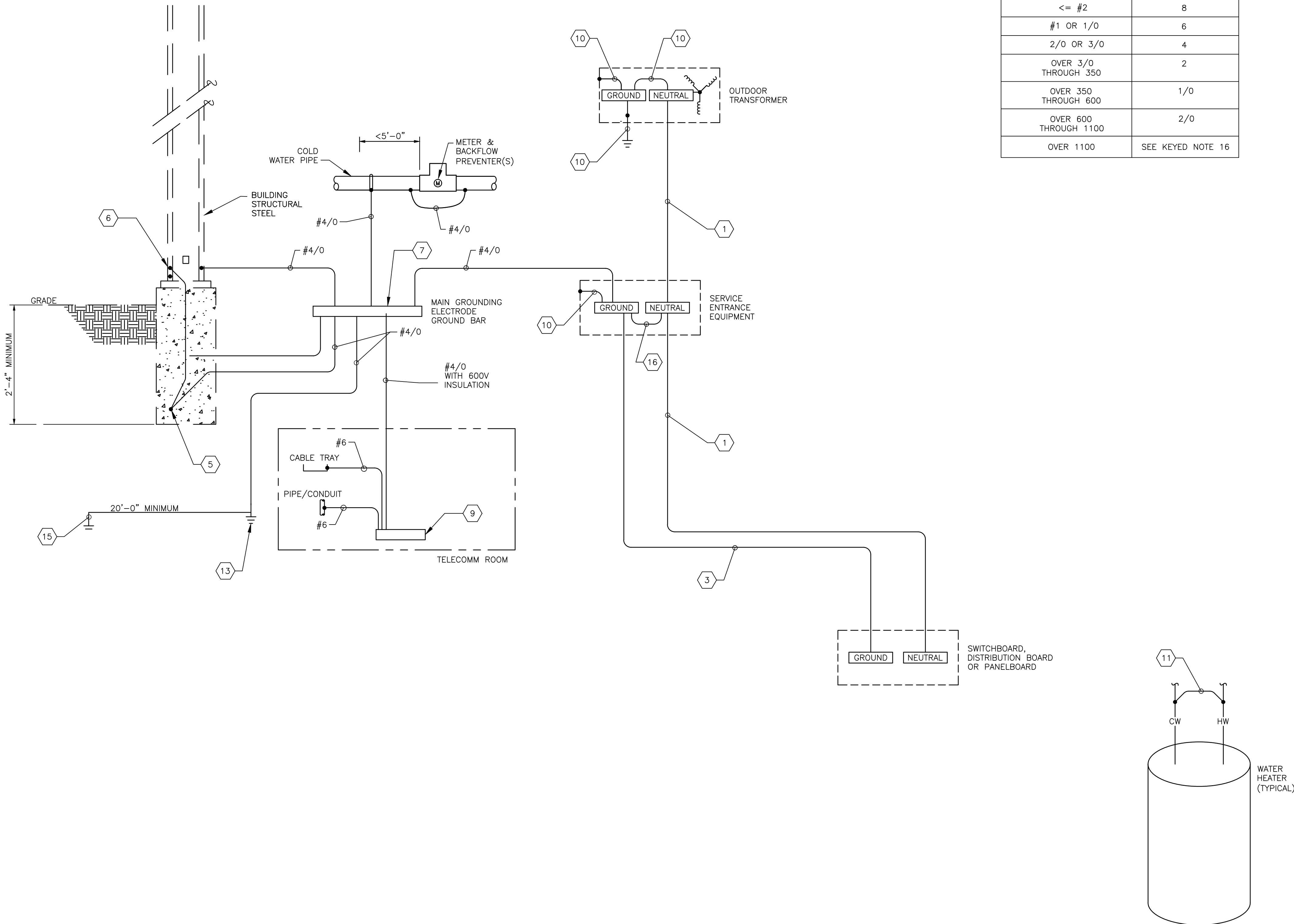
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E601

Date: Sep 27, 2021 -- 11:34am User:JSMettling Drawing File: H:\XBQ\8357\CAD\AutoCAD\8357 - Santa Fe County, Cerrillos Senior Center\Sheets\Electrical\8357-E-602.dwg Last Saved By: JSMettling Sep 03, 2021 -- 10:26am Layout Name: E-602



GROUNDING DIAGRAM (NOT ALL ITEMS APPLY TO PROJECT)
NO SCALE

GROUNDING ELECTRODE CONDUCTOR SCHEDULE	
NOTE: ALL CONDUCTORS ARE COPPER.	
SIZE OF LARGEST UNGROUNDED SERVICE-ENTRANCE CONDUCTOR OR EQUIVALENT AREA FOR PARALLEL CONDUCTORS. (AWG OR KCIL)	SIZE OF GROUNDING ELECTRODE CONDUCTOR (AWG)
<= #2	8
#1 OR 1/0	6
2/0 OR 3/0	4
OVER 3/0 THROUGH 350	2
OVER 350 THROUGH 600	1/0
OVER 600 THROUGH 1100	2/0
OVER 1100	SEE KEYED NOTE 16

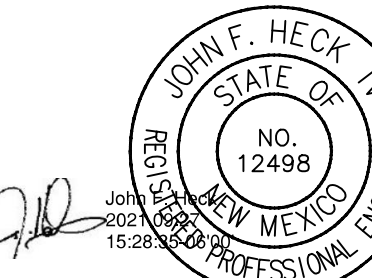
GENERAL NOTES

1. INSTALL GROUNDING CONNECTIONS TO BUILDING STRUCTURE AND WATER PIPES AT LOCATIONS THAT ARE VISIBLE AND ACCESSIBLE FOR INSPECTION, MAINTENANCE, AND TESTING.
2. INSTALL AN INSULATED THROAT GROUNDING BUSHING ON EACH METALLIC SERVICE ENTRANCE CONDUIT. BOND TO SERVICE ENTRANCE EQUIPMENT GROUND BUS USING GROUNDING ELECTRODE CONDUCTOR.
3. INSTALL AN INSULATED THROAT GROUNDING BUSHING ON EACH METALLIC FEEDER CONDUIT. BOND TO GROUND BUS USING CONDUCTOR THAT IS SIZED EQUAL TO EQUIPMENT GROUNDING CONDUCTOR.
4. BOND ELECTRICAL EQUIPMENT ENCLOSURES TO GROUND BAR USING SAME SIZE CONDUCTOR AS FEEDER EQUIPMENT GROUND CONDUCTOR OR FACTORY PROVIDED GREEN SCREW.
5. CLEAN COATED RE-BAR PRIOR TO PERFORMING ELECTRICAL CONNECTION.

SHEET KEYED NOTES

1. REFER TO ONE-LINE DIAGRAM AND FEEDER SCHEDULE FOR GROUNDED CONDUCTOR SIZE.
2. CONNECT GROUNDING ELECTRODE CONDUCTOR TO GROUND ROD.
3. FOR EQUIPMENT GROUNDING CONDUCTOR SIZE REFER TO ONE-LINE DIAGRAM AND FEEDER SCHEDULE.
4. PROVIDE GROUNDING ELECTRODE CONDUCTOR SIZE BASED ON THE CONDUCTOR SIZE OF THE SECONDARY OF THE TRANSFORMER. SIZE PER NEC 250.66 AND PER SCHEDULE ON THIS SHEET.
5. PROVIDE A CONCRETE-ENCASED MAIN GROUNDING ELECTRODE IN THE BUILDING FOUNDATION AROUND THE ENTIRE PERIMETER OF THE BUILDING. LOCATE ELECTRODE IN THE BOTTOM ONE-THIRD OF THE FOUNDATION WITH AT LEAST 3 INCHES OF CONCRETE COVER. USE EITHER #4/0 BARE COPPER CABLE OR #6 OR LARGER STEEL REINFORCING BARS MADE ELECTRICALLY CONTINUOUS USING EXOTHERMICALLY WELDED #4/0 JUMPERS.
6. BOND EACH PERIMETER STRUCTURAL STEEL COLUMN TO THE CONCRETE-ENCASED MAIN GROUNDING ELECTRODE. USE EXOTHERMIC WELDS.
7. PROVIDE A 1/4" X 4" X 12" "MAIN GROUNDING ELECTRODE GROUND BAR" FOR SINGLE POINT GROUNDING. LOCATE AT AN ACCESSIBLE POINT NEAR THE SERVICE ENTRANCE EQUIPMENT. MAKE OTHER CONNECTIONS TO THE GROUND BAR USING TWO-HOLE COMPRESSION SPADE LUGS THAT MEET IEEE 837 REQUIREMENTS. LABEL EACH CONNECTION.
8. NOT USED.
9. INSTALL A 1/4" X 4" COPPER "TELECOMMUNICATIONS GROUNDING BUSBAR" IN EACH TELECOMMUNICATIONS ROOM. CONNECT CABLES TO THE "TELECOMMUNICATIONS GROUNDING BUSBAR" USING COMPRESSION SPADE LUGS. LABEL CONDUCTORS PER ANSI-J-STD-607-A. LABEL EACH CONNECTION. SEE PLAN FOR BAR LENGTH AND LOCATIONS.
10. BONDING JUMPER SIZED PER GROUNDING ELECTRODE CONDUCTOR SCHEDULE THIS SHEET.
11. BOND HOT WATER PIPE TO COLD WATER PIPE AT EACH WATER HEATER WITH A #8 BARE COPPER CONDUCTOR.
12. NOT USED.
13. NOT USED.
14. BOND ALL METALLIC PIPING SYSTEMS WITHIN STRUCTURE.
15. PROVIDE A GROUNDING ELECTRODE SYSTEM PER 2014 NMEC.
16. MAIN BONDING JUMPER AND/OR SYSTEM BONDING JUMPER SIZE BASED ON UNGROUNDED CONDUCTOR SIZE AND GROUNDING ELECTRODE CONDUCTOR SCHEDULE ON THIS SHEET UNLESS UNGROUNDED CONDUCTOR SIZE OR EQUIVALENT IS GREATER THAN 1100 KCIL. IF GREATER THAN 1100 KCIL (OR 1750 KCIL FOR ALUMINUM) SIZE JUMPER PER NEC TABLE 250.102 (C)(1).
17. NOT USED.
18. NOT USED.
19. NOT USED.

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CERILLOS SENIOR CENTER
AND TURQUOISE TRAIL # 3
FIRE STATION
LOT 3, SECTION 17, T.14N., R.8E., N.M.P.M.
SANTA FE COUNTY, NEW MEXICO

Current Status:
100% CONST. DOCS

REVISIONS		

Drawn by: JSM
Checked by: JFH

Date: 09-27-21

Sheet Title:
GROUNDING
DIAGRAM

Job Number:

Sheet No.

E602

PERMIT & BID SET
07-25-2022

PANEL: A

VOLTAGE: 208/120V PH: 3 WIRE: 4 BUS RATING: 225A MAIN: 200A MCB

AIC: 22,000 MOUNTING: SURFACE SKIRT: NONE

200% RATED NEUTRAL

SURGE PROTECTION DEVICE (SPD)

ISOLATED GROUND BAR

LOAD TYPE	LOAD DESCRIPTION	BKR (A)	LOAD (VA)	CKT NO	PHASE A	PHASE B	PHASE C	CKT NO	LOAD (VA)	BKR (A)	LOAD DESCRIPTION	LOAD TYPE
R	READING ROOM RECEPTS	20	900	1	2100			2	1200	20	LTG	C
R	READING ROOM RECEPTS	20	1080	3		2580		4	1500	20	LTG	C
R	OFFICE RECEPTS	20	750	5			1730	6	980	20	LTG	C
R	MIXED SPACE RECEPTS	20	1080	7	2080			8	1000	20	EXTERIOR LTG BLDG MTD	C
R	GENERAL RECEPTS	20	900	9		1900		10	1000	20	EXTERIOR LIGHTING SITE	C
N	EWG	20	1200	11			1950	12	750	20	EXTERIOR LIGHTING SITE	C
N	IT RACK	20	1200	13	1950			14	750	20	EXTERIOR LIGHTING SITE	C
R	GENERAL RECEPTS	20	540	15		1440		16	900	20	ART ROOM RECEPTS	R
R	ARTS/CRAFTS MIXED RECEPTS	20	540	17			790	18	250	20	LCP	N
K	REFRIGERATOR	20	800	19	4300			20	3500	40A/3	KILN	C
K	COUNTER TOP RECEPTS	20	1200	21		4700		22	3500	***	***	C
K	COUNTER TOP RECEPTS	20	1200	23			4700	24	3500	***	***	C
K	DISPOSAL UNIT	20	800	25	1300			26	500	20	EF-3	M
N	CISTERN	20	500	27		1500		28	1000	20A/2	CU-1	N
N	CISTERN	20	500	29			1500	30	1000	***	***	N
N	CISTERN	20	500	31	1500			32	1000	20A/2	CU-2	N
N	CISTERN	20	500	33		1500		34	1000	***	***	N
	SPARE	20		35			0	36		20	SPARE	
	SPARE	20		37	0			38		20	SPARE	
	SPARE	20		39		0		40		20	SPARE	
	SPARE	20		41			0	42		20	SPARE	

TOTAL (VA) 13230 13620 10670

(KVA) (AMP)

TOTAL CONNECTED: 37.5 104.3

LOAD TYPE CODE LETTERS

C: CONTINUOUS LOAD (125% OF CONTINUOUS LOAD)

K: KITCHEN DEVICES (SIX OR MORE AT 65% OF LOAD)

LM: LARGEST MOTOR LOAD (LARGEST MOTOR x125%)

M: MOTOR LOAD (100% OF LOAD)

N: NON-CONTINUOUS LOAD (100% OF LOAD)

R: RECEPTACLE LOAD (FIRST 10KVA AT 100% REMAIN AT 50%)

O1 OTHER 1 (SEE NOTES FOR MORE INFORMATION)

O2 OTHER 2 (SEE NOTES FOR MORE INFORMATION)

O3 OTHER 3 (SEE NOTES FOR MORE INFORMATION)

(KVA) (AMP)

TOTAL DEMAND: 40.5 112.7

PANELBOARD NOTES

PANEL: DP

VOLTAGE: 208/120V PH: 3 WIRE: 4 BUS RATING: 600A MAIN: 600 MCB

AIC: 35,000 MOUNTING: SURFACE SKIRT: NONE

200% RATED NEUTRAL

SURGE PROTECTION DEVICE (SPD)

ISOLATED GROUND BAR

LOAD TYPE	LOAD DESCRIPTION	BKR (A)	LOAD (VA)	CKT NO	PHASE A	PHASE B	PHASE C	CKT NO	LOAD (VA)	BKR (A)	LOAD DESCRIPTION	LOAD TYPE
N	PANEL "A"	225A/3	13230	1	19840			2	6610	100A/3	PANEL "FS"	N
N	***	***	13620	3		23710		4	10090	***	***	N
N	***	***	10670	5			20470	6	9800	***	***	N
N	PANEL "K"	400A/3	40517	7	41517			8	1000	20A/3	MAU-2	M
N	***	***	40507	9		41507		10	1000	***	***	M
N	***	***	39592	11			40592	12	1000	***	***	M
M	MAU-1	20A/3	1000	13	3880			14	2880	40A/3	RTU-1	N
M	***	***	1000	15		3880		16	2880	***	***	N
M	***	***	1000	17			3880	18	2880	***	***	N
	SPARE	20		19	3840			20	3840	50A/3	RTU-2	N
	SPARE	20		21		3840		22	3840	***	***	N
	SPARE	20		23			3840	24	3840	***	***	N
	SPARE	20		25	0			26		20	SPARE	
	SPARE	20		27		0		28		20	SPARE	
	SPARE	20		29			0	30		20	SPARE	
	SPARE	20		31	0			32		20	SPARE	
	SPARE	20		33		0		34		20	SPARE	
	SPARE	20		35			0	36		20	SPARE	
	SPARE	20		37	0			38		20	SPARE	
	SPARE	20		39		0		40		20	SPARE	
	SPARE	20		41			0	42		20	SPARE	

TOTAL (VA) 69077 72937 68782

(KVA) (AMP)

TOTAL CONNECTED: 210.8 585.8

LOAD TYPE CODE LETTERS

C: CONTINUOUS LOAD (125% OF CONTINUOUS LOAD)

K: KITCHEN DEVICES (SIX OR MORE AT 65% OF LOAD)

LM: LARGEST MOTOR LOAD (LARGEST MOTOR x125%)

M: MOTOR LOAD (100% OF LOAD)

N: NON-CONTINUOUS LOAD (100% OF LOAD)

R: RECEPTACLE LOAD (FIRST 10KVA AT 100% REMAIN AT 50%)

O1 OTHER 1 (SEE NOTES FOR MORE INFORMATION)

O2 OTHER 2 (SEE NOTES FOR MORE INFORMATION)

O3 OTHER 3 (SEE NOTES FOR MORE INFORMATION)

(KVA) (AMP)

TOTAL DEMAND: 210.8 585.8

PANELBOARD NOTES

PANEL: K

VOLTAGE: 208/120V PH: 3 WIRE: 4 BUS RATING: 400A MAIN: 200A MCB

AIC: 10,000 MOUNTING: SURFACE SKIRT: NONE

200% RATED NEUTRAL

SURGE PROTECTION DEVICE (SPD)

ISOLATED GROUND BAR

LOAD TYPE	LOAD DESCRIPTION	BKR (A)	LOAD (VA)	CKT NO	PHASE A	PHASE B	PHASE C	CKT NO	LOAD (VA)	BKR (A)	LOAD DESCRIPTION	LOAD TYPE
K	GENERAL RECEPTS	20	750	1	7470			2	6720	40A/3	CONVECTION OVEN	N
K	GENERAL RECEPTS	20	940	3		7660		4	6720	***	***	N
N	FREEZER	20	1200	5			7920	6	6720	***	***	N
N	REFRIGERATOR	20	1200	7	7920			8	6720	40A/3	CONVECTION OVEN	N
N	RANGE	20	250	9		6970		10	6720	***	***	N
N	ICE MACHINE	20	1200	11			7920	12	6720	***	***	N
N	KITCHEN HOOD/LIGHTS	20	250	13	5250			14	5000	50A/3	DISHWASHER	N
N	EF-1	20	1000	15		6000		16	5000	***	***	N
	SPARE	20		17			5000	18	5000	***	***	N
	SPARE	20		19	5760			20	5760	60A/3	STEAM CABINET	K
	SPARE	20		21		5760		22	5760	***	***	K
	SPARE	20		23			5760	24	5760	***	***	K
	SPARE	20		25	6432			26	6432	70A/3	WATER HEATER	N
	SPARE	20		27		6432		28	6432	***	***	N
	SPARE	20		29			6432	30	6432	***	***	N
	SPARE	20		31	5760			32	5760	60A/3	STEAM CABINET	K
	SPARE	20		33		5760		34	5760	***	***	K
	SPARE	20		35			5760	36	5760	***	***	K
M	KEF-1	20A/3	800	37	1925			38	1125	20A/2	STEAM TABLE	K
M	***	***	800	39		1925		40	1125	***	***	K
M	***	***	800	41			800	42		20	SPARE	

TOTAL (VA) 40517 40507 39592

(KVA) (AMP)

TOTAL CONNECTED: 120.6 335.2

LOAD TYPE CODE LETTERS

C: CONTINUOUS LOAD (125% OF CONTINUOUS LOAD)

K: KITCHEN DEVICES (SIX OR MORE AT 65% OF LOAD)

LM: LARGEST MOTOR LOAD (LARGEST MOTOR x125%)

M: MOTOR LOAD (100% OF LOAD)

N: NON-CONTINUOUS LOAD (100% OF LOAD)

R: RECEPTACLE LOAD (FIRST 10KVA AT 100% REMAIN AT 50%)

O1 OTHER 1 (SEE NOTES FOR MORE INFORMATION)

O2 OTHER 2 (SEE NOTES FOR MORE INFORMATION)

O3 OTHER 3 (SEE NOTES FOR MORE INFORMATION)

(KVA) (AMP)

TOTAL DEMAND: 107.1 297.7

PANELBOARD NOTES

Type	Description	Voltage	Mounting	Lumen Output (#)	Color Temp (#)	Apparent Load (#)	Manufacturer / Model	Notes
BL1	LED BOLLARD FIXTURE	120 VOLTS	GROUND	1000	3000	22	COOPER #INVUE CPB VA1 42 830 U SY WH	0
DL1	RECESSED LED DOWN LIGHTS	120 VOLTS	RECESSED	1000	3500	45	FLC44D-SO-1000L-120-LD1-T / LC44-SDO-1000L-35K-DN-FL2-CD-NP	0
EM	UNIVERSAL MOUNTED LED EMERGENCY FIXTURE	120 VOLTS	UNIVERSAL	N/A	N/A	38	COOPER #ATLELD W A 100 SD	0
EX	UNIVERSAL MOUNTED LED EXIT FIXTURE	120 VOLTS	UNIVERSAL	N/A	N/A	25	DUALITE #EVE U R W I	0
L2A	LED 2'X2' RECESSED / LAY IN FIXTURE	120 VOLTS	RECESSED/LAY IN	3500	3500	34	FEQ2-22-AC-3500L-35K-1C-UNV-Lxx-Cxx/F/G/Sx-WH	0
L4A	LED 2'X4' RECESSED / LAY IN FIXTURE	120 VOLTS	RECESSED/LAY IN	6000	3500	48	FOCAL POINT #FEQ2-24-AC-6000LH-35K-1C-UNV-Lxx-Cxx/F/G/Sx-WH	0
L4B	LED 2'X4' RECESSED / LAY IN FIXTURE REV LENSED	120 VOLTS	RECESSED/LAY IN	5200	3500	29	COLUMBIA #5CLT-24-N-35-ML-L1-G-SD-FA-ED-U	0
PL8	LED SURFACE STRIP	120 VOLTS	SURFACE / CHAIN	1000 LF	3500	58	LITHONIA #TZLIN L96 14000LM FST MVOLT 35K 90 CRI	0
RL6	6' RECESSED LED LINEAR FIXTURE	120 VOLTS	RECESSED/LAY IN	875 LF	3500	30	FOCAL POINT #FSM4AL FL-875LF-35K-1C-UNV-LD1-TF-TFW-EXE-WH-6FT	0
RL8	8' RECESSED LED LINEAR FIXTURE	120 VOLTS	RECESSED/LAY IN	875 LF	3500	48	FOCAL POINT #FSM4AL FL-875LF-35K-1C-UNV-LD1-TF-TFW-EXE-WH-8FT	0
RL12	12' RECESSED LED LINEAR FIXTURE	120 VOLTS	RECESSED/LAY IN	875 LF	3500	58	FOCAL POINT #FSM4AL FL-875LF-35K-1C-UNV-LD1-TF-TFW-EXE-WH-12FT	0
SL1	LINEAR LED STRIP FIXTURE	120 VOLTS	RECESSED/LAY IN	3795	3500	26	METALUX #5RL LE5-385L-LC-UNV-L835-CD1-U	0
VL1	EXTERIOR LED RECESSED FIXTURE	120 VOLTS	RECESSED	1000	3000	34	FOCAL POINT #FLC44D ST SW 1000L UNV LZ1 IC EM LC44EM SDT-30K	0
VW1	EXTERIOR LED WALL MOUNTED FIXTURE	120 VOLTS	WALL MOUNTED	1000	3000	38	COOPER #XTOR4B-Y-	0
WD1	EXTERIOR POLE MOUNTED SINGLE HEAD FIXTURE	120 VOLTS	POLE MOUNTED	1000	2700	60	GLEON-SA2A-727-U-5WQ	0
WD2	EXTERIOR POLE MOUNTED DUAL HEAD FIXTURE	120 VOLTS	POLE MOUNTED	1000	2700	120	GLEON-SA2A-727-U-5WQ	0

PANEL: DP

VOLTAGE: 208/120V PH: 3 WIRE: 4 BUS RATING: 600A MAIN: 600 MCB

AIC: 35,000 MOUNTING: SURFACE SKIRT: NONE

200% RATED NEUTRAL

SURGE PROTECTION DEVICE (SPD)

ISOLATED GROUND BAR

LOAD TYPE	LOAD DESCRIPTION	BKR (A)	LOAD (VA)	CKT NO	PHASE A	PHASE B	PHASE C	CKT NO	LOAD (VA)	BKR (A)	LOAD DESCRIPTION	LOAD TYPE
N	PANEL "A"	225A/3	13230	1	19840			2	6610	100A/3	PANEL "FS"	N
N	***	***	13620	3		23710		4	10090	***	***	N
N	***	***	10670	5			20470	6	9800	***	***	N
N	PANEL "K"	400A/3	40517	7	41517			8	1000	20A/3	MAU-2	M
N	***	***	40507	9		41507		10	1000	***	***	M
N	***	***	39592	11			40592	12	1000	***	***	M
M	MAU-1	20A/3	1000	13	3880			14	2880	40A/3	RTU-1	N
M	***	***	1000	15		3880		16	2880	***	***	N
M	***	***	1000	17			3880	18	2880	***	***	N
	SPARE	20		19	3840			20	3840	50A/3	RTU-2	N
	SPARE	20		21		3840		22	3840	***	***	N
	SPARE	20		23			3840	24	3840	***	***	N
	SPARE	20		25	0			26		20	SPARE	
	SPARE	20		27		0		28		20	SPARE	
	SPARE	20		29			0	30		20	SPARE	
	SPARE	20		31	0			32		20	SPARE	
	SPARE	20		33		0		34		20	SPARE	
	SPARE	20		35			0	36		20	SPARE	
	SPARE	20		37	0			38		20	SPARE	
	SPARE	20		39		0		40		20	SPARE	
	SPARE	20		41			0	42		20	SPARE	

TOTAL (VA) 69077 72937 68782

(KVA) (AMP)

TOTAL CONNECTED: 210.8 585.8

LOAD TYPE CODE LETTERS

C: CONTINUOUS LOAD (125% OF CONTINUOUS LOAD)

K: KITCHEN DEVICES (SIX OR MORE AT 65% OF LOAD)

LM: LARGEST MOTOR LOAD (LARGEST MOTOR x125%)

M: MOTOR LOAD (100% OF LOAD)

N: NON-CONTINUOUS LOAD (100% OF LOAD)

R: RECEPTACLE LOAD (FIRST 10KVA AT 100% REMAIN AT 50%)

O1 OTHER 1 (SEE NOTES FOR MORE INFORMATION)

O2 OTHER 2 (SEE NOTES FOR MORE INFORMATION)

O3 OTHER 3 (SEE NOTES FOR MORE INFORMATION)

(KVA) (AMP)

TOTAL DEMAND: 210.8 585.8

PANELBOARD NOTES

PANEL: K

VOLTAGE: 208/120V PH: 3 WIRE: 4 BUS RATING: 400A MAIN: 200A MCB

AIC: 10,000 MOUNTING: SURFACE SKIRT: NONE

200% RATED NEUTRAL

SURGE PROTECTION DEVICE (SPD)

ISOLATED GROUND BAR

LOAD TYPE	LOAD DESCRIPTION	BKR (A)	LOAD (VA)	CKT NO	PHASE A	PHASE B	PHASE C	CKT NO	LOAD (VA)	BKR (A)	LOAD DESCRIPTION	LOAD TYPE
K	GENERAL RECEPTS	20	750	1	7470			2	6720	40A/3	CONVECTION OVEN	N
K	GENERAL RECEPTS	20	940	3		7660		4	6720	***	***	N
N	FREEZER	20	1200	5			7920	6	6720	***	***	N
N	REFRIGERATOR	20	1200	7	7920			8	6720	40A/3	CONVECTION OVEN	N
N	RANGE	20	250	9		6970		10	6720	***	***	N
N	ICE MACHINE	20	1200	11			7920	12	6720			

PANEL: FS

VOLTAGE: 208/120V PH: 3 WIRE: 4 BUS RATING: 400A MAIN: 400A MCB

AIC: 10,000 MOUNTING: SURFACE SKIRT: NONE

PANELBOARD SPECIAL FEATURES

200% RATED NEUTRAL

SURGE PROTECTION DEVICE (SPD)

ISOLATED GROUND BAR

LOAD TYPE	LOAD DESCRIPTION	BKR (A)	LOAD (VA)	CKT NO	PHASE A	PHASE B	PHASE C	CKT NO	LOAD (VA)	BKR (A)	LOAD DESCRIPTION	LOAD TYPE
R	APPARATUS BAY RECEPTS	20	540	1	1620			2	1080	20	GENERAL RECEPTS	R
R	APPARATUS BAY RECEPTS	20	540	3		1740		4	1200	20	REFRIGERATOR	N
R	MEETING ROOM RECEPTS	20	900	5			2100	6	1200	20	MICROWAVE	N
R	OFFICE RECEPTS	20	540	7	1740			8	1200	20	IT RACK	N
C	EXTERIOR BLD MTD LTG	20	350	9		2350		10	2000	30A/2	EXTRACTOR	N
C	APPARATUS BAY LTG	20	1200	11			3200	12	2000	***	***	N
C	GENERAL LIGHTING	20	750	13	750			14		20	SPARE	
	SPARE	20		15		0		16		20	SPARE	
	SPARE	20		17			0	18		20	SPARE	
	SPARE	20		19	0			20		20	SPARE	
	SPARE	20		21		0		22		20	SPARE	
	SPARE	20		23			0	24		20	SPARE	
	SPARE	20		25	0			26		20	SPARE	
	SPARE	20		27		0		28		20	SPARE	
	SPARE	20		29			0	30		20	SPARE	
	SPARE	20		31	0			32		20	SPARE	
	SPARE	20		33		0		34		20	SPARE	
	SPARE	20		35			0	36		20	SPARE	
	SPARE	20		37	0			38		20	SPARE	
	SPARE	20		39		0		40		20	SPARE	
	SPARE	20		41			0	42		20	SPARE	
TOTAL (VA)					4110	4090	5300					

TOTAL CONNECTED:

(KVA)

13.5

(AMP)

37.5

LOAD TYPE CODE LETTERS

(KVA)

(AMP)

C: CONTINUOUS LOAD (125% OF CONTINUOUS LOAD)2.98.0

K: KITCHEN DEVICES (SIX OR MORE AT 65% OF LOAD)0.00.0

LM: LARGEST MOTOR LOAD (LARGEST MOTOR x125%)0.00.0

M: MOTOR LOAD (100% OF LOAD)0.00.0

N: NON-CONTINUOUS LOAD (100% OF LOAD)7.621.1

R: RECEPTACLE LOAD (FIRST 10KVA AT 100%, REMAIN. AT 50%)3.610.0

O1 OTHER 1 (SEE NOTES FOR MORE INFORMATION)0.00.0

O2 OTHER 2 (SEE NOTES FOR MORE INFORMATION)0.00.0

O3 OTHER 3 (SEE NOTES FOR MORE INFORMATION)0.00.0

TOTAL DEMAND:14.139.1

PANELBOARD NOTES

- LOAD TYPE "SF" INDICATES A SUBFED PANEL. SEE INDIVIDUAL PANEL SCHEDULE FOR A BREAKDOWN OF LOAD BY TYPE.

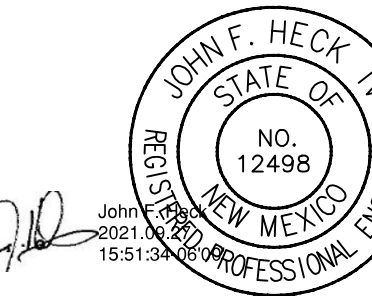
PERMIT & BID SET

07-25-2022

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CERILLOS SENIOR CENTER
AND TURQUOISE TRAIL # 3
FIRE STATION

LOT 3, SECTION 17, T.14N., R.8E., N.M.P.M.
SANTA FE COUNTY, NEW MEXICO

Current Status:

100% CONST. DOCS

REVISIONS

Drawn by: JSM

Checked by: JFH

Date: 09-27-21

Sheet Title:

ELECTRICAL SCHEDULES

Job Number:

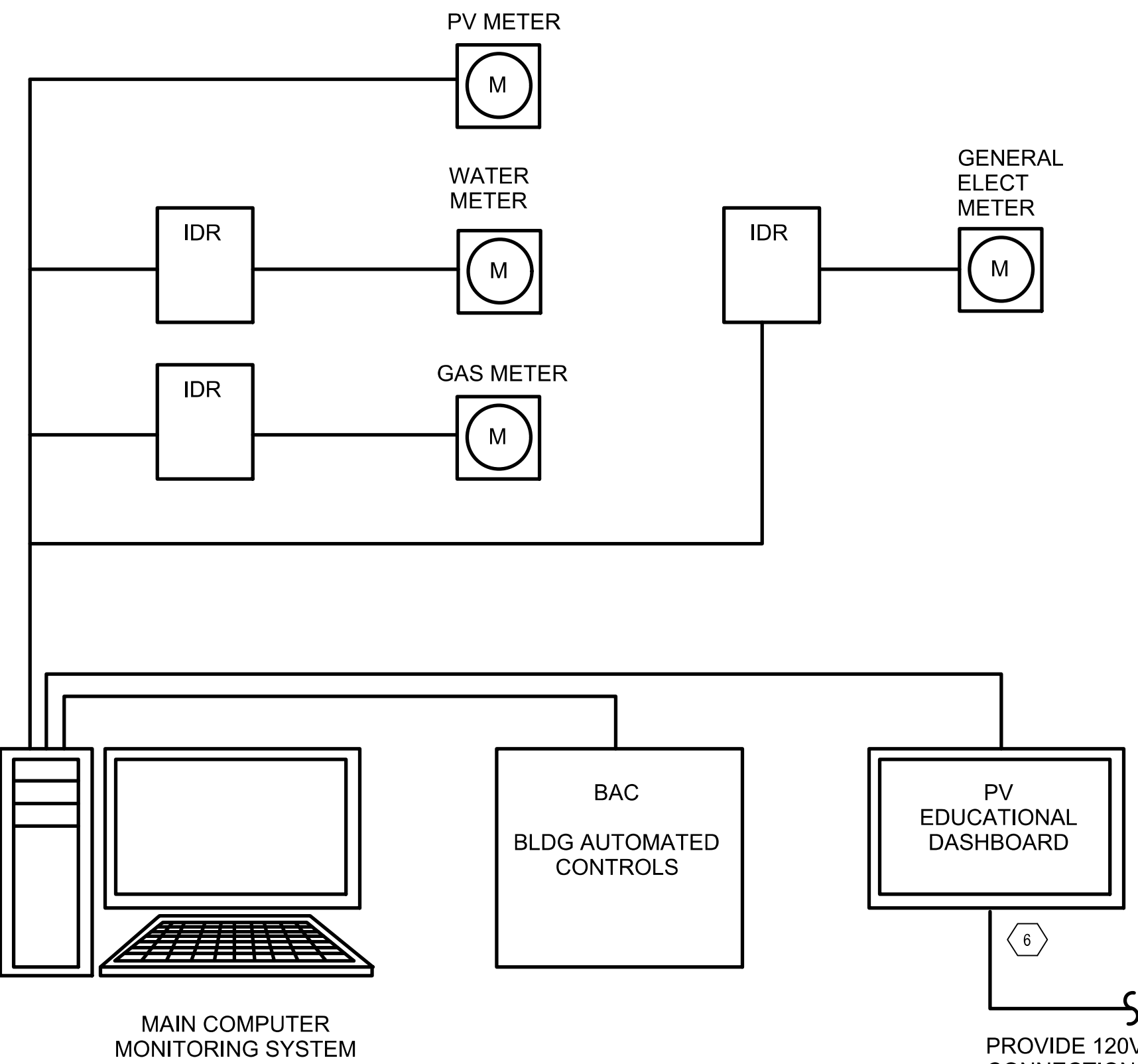
Sheet No.

E702

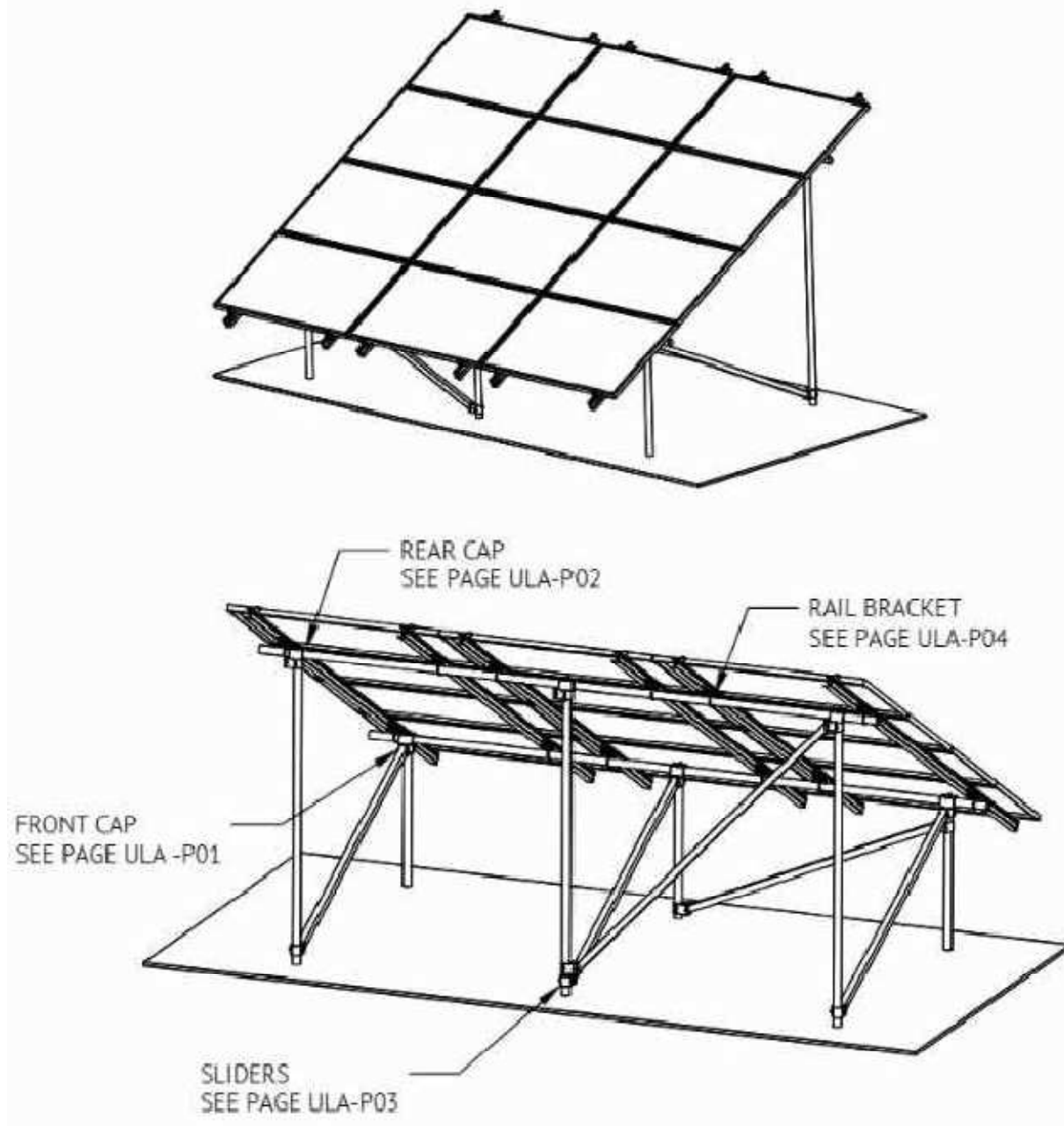
Date: Sep 27, 2021 4:05pm User:JSMetling Drawing File: H:\A90_8357\CAD\AutoCAD\8357 - Santa Fe County, Cerrillos Senior Center\Sheets\Electrical\8357-PV100.dwg Layout Name: E401 ELECTRICAL ENLARGED PLAN

ENERGY SYSTEM METERING DIAGRAM

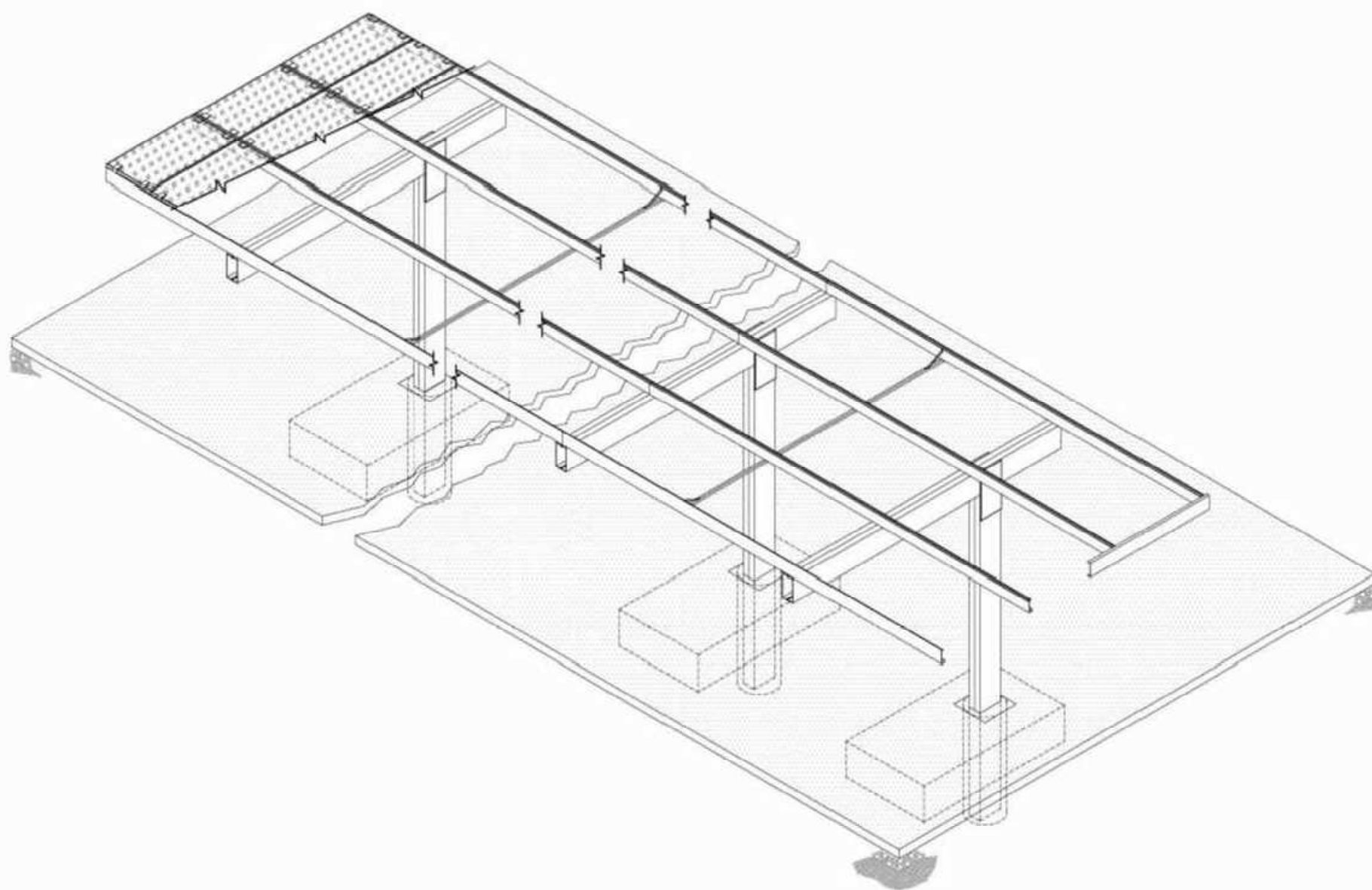
- PLUMBING CONTRACTOR TO PURCHASE AND INSTALL GAS AND WATER SUB-METERS, ELECTRICAL CONTRACTOR TO PURCHASE AND INSTALL ELECTRICAL METERS, PV CONTRACTOR TO PROVIDE AND INSTALL PV METERING AND MONITORING DEVICES.
- CONTROLS CONTRACTOR SHALL PROVIDE AND INSTALL MONITORING SYSTEM SOFTWARE, DATA-LOGGERS, INTERVAL DATA RECORINDER (IDR), GATEWAYS AND ASSOCIATED EQUIPMENT. CONTROLS CONTRACTOR SHALL INTERGRATE ALL SUB-METERS FOR DATA RECORDING AND VIEWING ON MAIN COMPUTUER MONITORING SYSTEM.
- ALL SUB METERS SHALL BE OF THE SAME MANUFACTURER AND SHALL BE LABELED IN FIELD BASED ON METER TYPE. ALL METERS AND INTERVAL DATA RECORDERS SHALL BE PART OF THE BASE BID. EMON SERIES 3000 METERS SHALL BE USED. NO EQUAL.



GROUND MOUNTING EXAMPLE

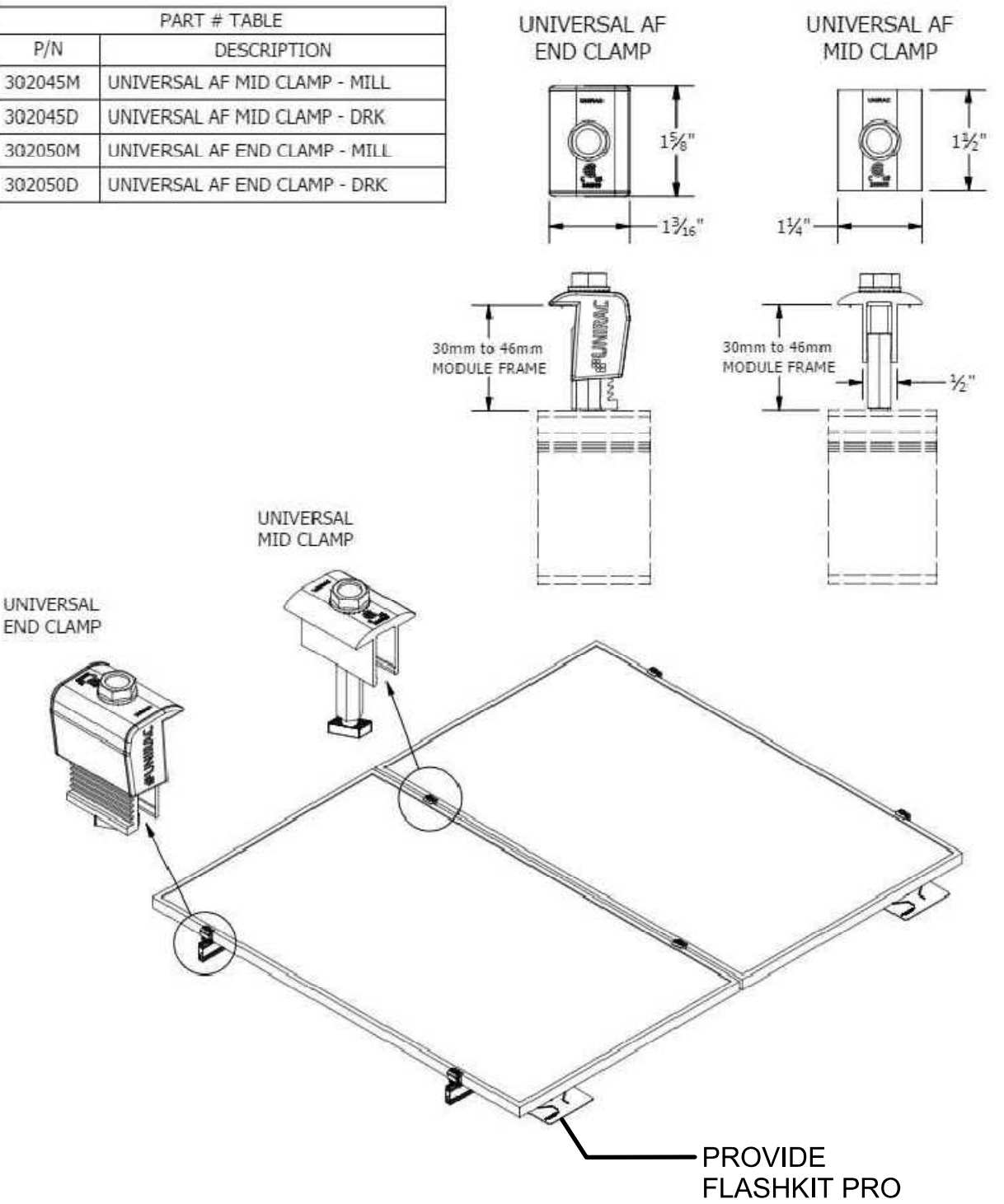


SEMI CANTILEVERED CANOPY EXAMPLE



ROOF MOUNTING EXAMPLE

FLASH KITS FOR ROOF ATTACHMENT AND PV RACKING SHALL MEET THE ROOFING MANUFACTURER'S WARRANTY REQUIREMENTS WITHOUT EXCEPTION. FLASH KITS AND ATTACHMENTS SHALL BE PROVIDED BY CONTRACTOR UNDER THE PB BID LOT. UNIRAC SYSTEMS INDICATED ARE MEANT FOR A BASIS FOR DESIGN. SUBSTITUTIONS WILL BE REVIEWED SUBSEQUENT TO WARRANTY REVIEW BY THE ROOFING CONTRACTOR.



SHEET KEYED NOTES

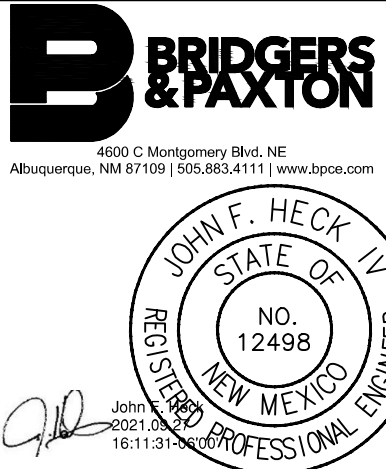
- PROVIDE SWITCHED COMBINER BOX(ES) WITH INTEGRAL DC DISCONNECT, SURGE SUPPRESSION DEVICE, AND NEMA 3R ENCLOSURE (EATON® REC SERIES OR APPROVED EQUAL). PROVIDE FUSED INPUTS AS INDICATED (LITTELFUSE® SPF SERIES OR APPROVED EQUAL). FUSES SHALL BE SIZED BASED ON FINAL SOLAR PANEL SELECTION IN ACCORDANCE WITH THE NEC.
- ALL CIRCUIT BREAKERS IN ELECTRICAL PANEL SHALL BE RATED AS SUITABLE FOR BACKFEED. CIRCUIT BREAKERS SHALL BE SIZED BASED ON FINAL INVERTER SELECTION AND TOTAL PV OUTPUT IN ACCORDANCE WITH THE NEC.
- PV SYSTEM CIRCUIT BREAKER AT POINT OF INTERCONNECTION TO BE PROVIDED BY PV CONTRACTOR. CONFIRM SIZING OF BREAKER AT MAIN SWITCH BOARD (MSB) WITH FINAL CONFIGURATION OF PV SYSTEM. IF MSB CANNOT ACCOMMODATE PV ON LOAD SIDE, CONSIDER LINE (SUPPLY) SIDE CONNECTION. COORDINATE WITH PROJECT ELECTRICAL ENGINEER.
- PV SYSTEM TO BE MONITORED, CAPTURING IRRADIANCE AS WELL AS POWER OUTPUT. FOR LARGE SYSTEMS (OVER 250KW), PROVIDE MONITORING AT COMBINER LEVEL (OR INVERTER LEVEL IF MULTIPLE INVERTERS ARE USED WITHOUT EXTERNAL COMBINERS) IN ORDER TO MONITOR SUB-SYSTEM PERFORMANCE. ANY ASSOCIATED SUB-METER(S) SHALL BE ETHERNET CAPABLE AND MEASURE KW, KWH, AND POWER FACTOR. TIE ALL SUB-METERS INTO CENTRAL PV MONITORING SYSTEM.
- VOLTAGE DROP FROM BUILDING PV COMBINER PANEL TO INVERTER TO BE 1.5% OR LESS.
- COORDINATE WITH COA AND ARCHITECT FOR EDUCATIONAL DASHBOARD LOCATION, EDUCATIONAL DASHBOARD AND DISPLAY FOR PHOTOVOLTAIC SYSTEM. TO BE INCLUDED IN BID LOT COORDINATE WITH ELECTRICAL AND SPECIAL SYSTEMS FOR POWER AND DATA.
- EDUCATIONAL DASHBOARD AND DISPLAY FOR PHOTOVOLTAIC SYSTEM TO BE INCLUDED IN BID LOT COORDINATE WITH ELECTRICAL AND SPECIAL SYSTEMS FOR POWER AND DATA.
- PROVIDE TERMINATIONS AT APPROPRIATE GROUNDING ROD CONNECTION POINT. MODULES SHALL BE BONDED TO SUPPORT RACKS USING STAINLESS STEEL HARDWARE (NUTS, LOCK WASHERS, AND THREADED BOLTS OR OTHER UL LISTED CLAMPS). BONDING POINTS SHALL BE ABRASSED IMMEDIATELY PRIOR TO LUGS BEING FASTENED IN PLACE.

GENERAL NOTES

- IT IS THE SOLAR CONTRACTOR'S RESPONSIBILITY TO APPLY AND OBTAIN A GENERATION METER VARIANCE TO AVOID CONDUIT INTERCONNECTING THE ROOFTOP ARRAY TO THE PRIMARY METER ENTRANCE. VARIANCE SHALL BE COMPLETED PRIOR TO FINAL ENGINEERING AND INSTALLATION.
- SOLAR CONTRACTOR SHALL INCLUDE SIGNAGE AT PRIMARY METER FOR FIRST RESPONDERS TO LOCATE ROOFTOP PV ARRAY. VERIFY ALL REQUIREMENTS WITH PNM PRIOR TO INSTALLATION.
- ALL WORK INDICATED ON THIS SHEET IS FOR INTENT AND GENERAL INFORMATION USE ONLY. IT IS THE SOLAR CONTRACTOR'S RESPONSIBILITY TO OBTAIN ALL PERMITS, PROVIDE ALL SHOP DRAWINGS, ENGINEERED PERMIT DRAWINGS, ETC AND SUBMIT TO ALL AUTHORITIES HAVING JURISDICTION.
- ALL MATERIAL AND LABOR FOR THE INSTALLATION OF THE ROOF-MOUNTED PHOTOVOLTAIC ARRAY AND ASSOCIATED MONITORING SYSTEM SHALL BE INCLUDED AS A TURN-KEY PACKAGE.
- SHOP DRAWINGS SHALL BE SUBMITTED AND APPROVED PRIOR TO THE INSTALLATION OF ANY EQUIPMENT. SHOP DRAWINGS SHALL INCLUDE GENERAL CONFIGURATION OF THE SYSTEM, WIRE AND FUSE SIZES, PROPOSED MONITORING SYSTEM, ALL NECESSARY STRUCTURAL CALCULATIONS, AND CUT-SHEETS FOR RELATED EQUIPMENT FURNISHED BY THE ELECTRICAL CONTRACTOR.
- PV CONTRACTOR MUST BE CERTIFIED AS A NORTH AMERICAN BOARD OF CERTIFIED ENERGY PRACTITIONERS (NABCEP) SOLAR INSTALLER. CONTRACTOR MUST ALSO HOLD A CURRENT NM EE-88 ELECTRICAL LICENSE.
- THE CONTRACTOR SHALL PROVIDE A TURN-KEY SYSTEM. PV PANEL LAYOUTS MUST BE COORDINATED WITH STRUCTURAL AND OTHER DISCIPLINES. ANY REVISED LAYOUT OF EQUIPMENT OR PANELS MUST BE APPROVED BY THE PROJECT ENGINEER AND/OR ARCHITECT. BE COORDINATED WITH OTHER TRADES, AND CAUSE NO ADDITIONAL COST TO THE OWNER.
- CONTRACTOR SHALL PROVIDE A DETAILED SYSTEM PERFORMANCE AND LIFE-CYCLE SUMMARY WITH THEIR BID (INCLUDING ALL COSTS FOR METERING, MONITORING, ETC.), TO DEMONSTRATE EXPECTED PAYBACK SCHEDULE.
- CONTRACTOR SHALL PROVIDE TWO (2) SITE VISITS DURING THE FIRST YEAR INSTALLATION WARRANTY PERIOD TO PERFORM INSPECTION OF ELECTRICAL EQUIPMENT AND ANALYSIS OF ACTUAL POWER PRODUCTION VERSUS EXPECTED, INCLUDING ANY CLEANING AND MAINTENANCE OF SOLAR PANELS NEEDED FOR OPTIMAL ENERGY GENERATION.
- PHOTOVOLTAICS SHALL BE AN INCLUDED SYSTEM FOR OVERALL PROJECT COMMISSIONING. PV CONTRACTOR SHALL COORDINATE THEIR COMMISSIONING/STARTUP ACTIVITIES WITH OWNER'S COMMISSIONING AGENT.
- PRIOR TO INSTALLATION, EACH MODULE (PANEL) SHALL BE CONFIRMED TO HAVE A PRODUCTION TOLERANCE WITHIN 0% TO + 3% OF THE MODULE'S NAMEPLATE RATING (TO REDUCE "MODULE MISMATCH").
- ALL ELECTRICAL COMPONENTS INCLUDING OVERCURRENT PROTECTION, DISCONNECTS, CONDUIT, WIRING AND TERMINALS MUST HAVE UL OR EQUIVALENT LISTING, AND HAVE APPROPRIATE VOLTAGE, CURRENT AND TEMPERATURE RATINGS FOR THE APPLICATION. ALL WIRE MANAGEMENT MATERIALS (CABLE TIES, ETC.) UTILIZED OUTDOORS MUST BE OF UV- RESISTANT MATERIAL.
- WIRING SHALL BE SIZED TO MINIMIZE VOLTAGE DROP TO LESS THAN 3% FROM THE PV MODULES TO THE INVERTER, AND LESS THAN 3% FROM THE INVERTERS TO MAIN SWITCH BOARD (MSB).
- ALL WIRING SHALL BE LISTED FOR A MINIMUM OPERATION OF 600 VOLTS AND 900 C TEMPERATURE RATING. MINIMUM CONDUCTOR SIZE IS #12 AWG. ALL CURRENT-CARRYING CONDUCTORS MUST BE ENCLOSED IN CONDUIT, WITH THE EXCEPTION OF MODULE INTERCONNECTIONS PROTECTED UNDERNEATH PANELS WITHIN THE SAME GROUPING.
- EXPOSED CONDUIT OUTSIDE BUILDING SHALL BE ROUTED TO MINIMIZE VISIBILITY AND PAINTED TO MATCH SURROUNDING STRUCTURE. CONDUIT SHALL BE ROUTED PARALLEL AND PERPENDICULAR TO STRUCTURAL ELEMENTS.
- SHOULD ADDITIONAL PANELS FIT WITHIN THE MODULE GROUPINGS AS SHOWN, PRESENT FIRST COST AND ANNUAL SOLAR FRACTION IMPACTS WITH APS PROJECT MANAGER.
- EQUIPMENT SHALL BE LABELED TO INDICATE USAGE, VOLTAGE, AND ALL SAFETY/HAZARD WARNINGS AS REQUIRED BY NATIONAL ELECTRIC CODE (NEC) SECTION #690, AND PER LOCAL UTILITY COMPANY AND AUTHORITY HAVING JURISDICTION (AHJ) DIRECTIVES.
- ALL FRAMING MEMBERS, BOXES, METAL ENCLOSURES, PANEL BOARDS, INVERTERS, AND CONDUIT MUST BE PROPERLY GROUNDED AND TERMINATED AT APPROPRIATE GROUNDING ROD CONNECTION POINT. MODULES SHALL BE BONDED TO SUPPORT RACKS USING STAINLESS STEEL HARDWARE (NUTS, LOCK WASHERS, AND THREADED BOLTS OR OTHER UL LISTED CLAMPS). BONDING POINTS SHALL BE ABRASSED IMMEDIATELY PRIOR TO LUGS BEING FASTENED IN PLACE.
- FOR FLAT ROOF-TOP APPLICATIONS, PROVIDE UNIRAC® RM ROOF-MOUNT RACKING SYSTEM OR APPROVED EQUAL. RACKING SYSTEM SHALL BE BALLASTED TYPE WITHOUT ROOF-PENETRATIONS. PROVIDE ALL NECESSARY MOUNTING ACCESSORIES FOR INSTALLATION UPON THE DESIGNED BUILDING STRUCTURE. INCLUDE AN APPROVED SACRIFICIAL MEMBRANE LAYER BETWEEN RACKING SYSTEM AND ROOF MEMBRANE.
- PROVIDE ALL NECESSARY COMPONENTS TO GIVE A COMPLETE AND OPERABLE SYSTEM IN COMPLIANCE WITH THE NATIONAL ELECTRIC CODE. ENSURE THAT PNM INTERCONNECTION REQUIREMENTS ARE MET.
- PV CONTRACTOR IS RESPONSIBLE FOR PROCESSING INTERCONNECT AGREEMENT WITH PNM COORDINATE WITH OWNER TO OBTAIN REQUIRED SIGNATURES ON APPLICATION(S).
- PROVIDE NECESSARY DATA CONNECTIONS AND EQUIPMENT FOR WEB-BASED MONITORING OF INVERTER OUTPUT. OWNER WILL PROVIDE OPEN INTERNET ACCESS FOR PV MONITORING SYSTEM. OWNER WILL PROVIDE DATA DROP (JACK) IN AGREED-UPON LOCATION.
- PV SYSTEM SHALL BE PROVIDED WITH SOLAR RADIATION/ISOLATION, AMBIENT TEMPERATURE, AND SOLAR CELL TEMPERATURE SENSORS. THESE DEVICES SHALL BE INTEGRATED WITH MONITORING SYSTEM TO ANALYZE PV SYSTEM OUTPUT.
- PROVIDE SUITABLE COMPUTER AND SEPARATE FLAT-SCREEN MONITOR IN BUILDING LOBBY OR OTHER IDENTIFIED AREA FOR PV DATA DISPLAY. COORDINATE EXACT LOCATION WITH OWNER. COMPUTER MUST HAVE ALL NECESSARY MONITORING SYSTEM SOFTWARE PRE-INSTALLED. PROVIDE WRITTEN INSTRUCTIONS FOR HOW TO ACCESS AND NAVIGATE PV DATA AT THIS TERMINAL. DATA NETWORK ACCESS TO BE PROVIDED BY OWNER.
- COMPREHENSIVE TRAINING ON PV SYSTEM BY THE INSTALLER AND/OR MANUFACTURER'S REP. INCLUDING PV COMPONENTS, MAINTENANCE, MONITORING AND TROUBLE-SHOOTING. SHALL BE PROVIDED TO THE COA AND VERIFIED BY THE OWNER'S COMMISSIONING AGENT.
- CLEARANCES AROUND INVERTERS TO BE VERIFIED BY CONTRACTOR BASED ON ACTUAL INVERTER SELECTED.

PERMIT & BID SET
07-25-2022

Lloyd & Associates
ARCHITECTS



CERILLOS SENIOR CENTER
AND TURQUOISE TRAIL # 3
FIRE STATION

Current Status:
100% CONST. DOCS

REVISIONS

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Checked by: JFH

Date: 09-27-21

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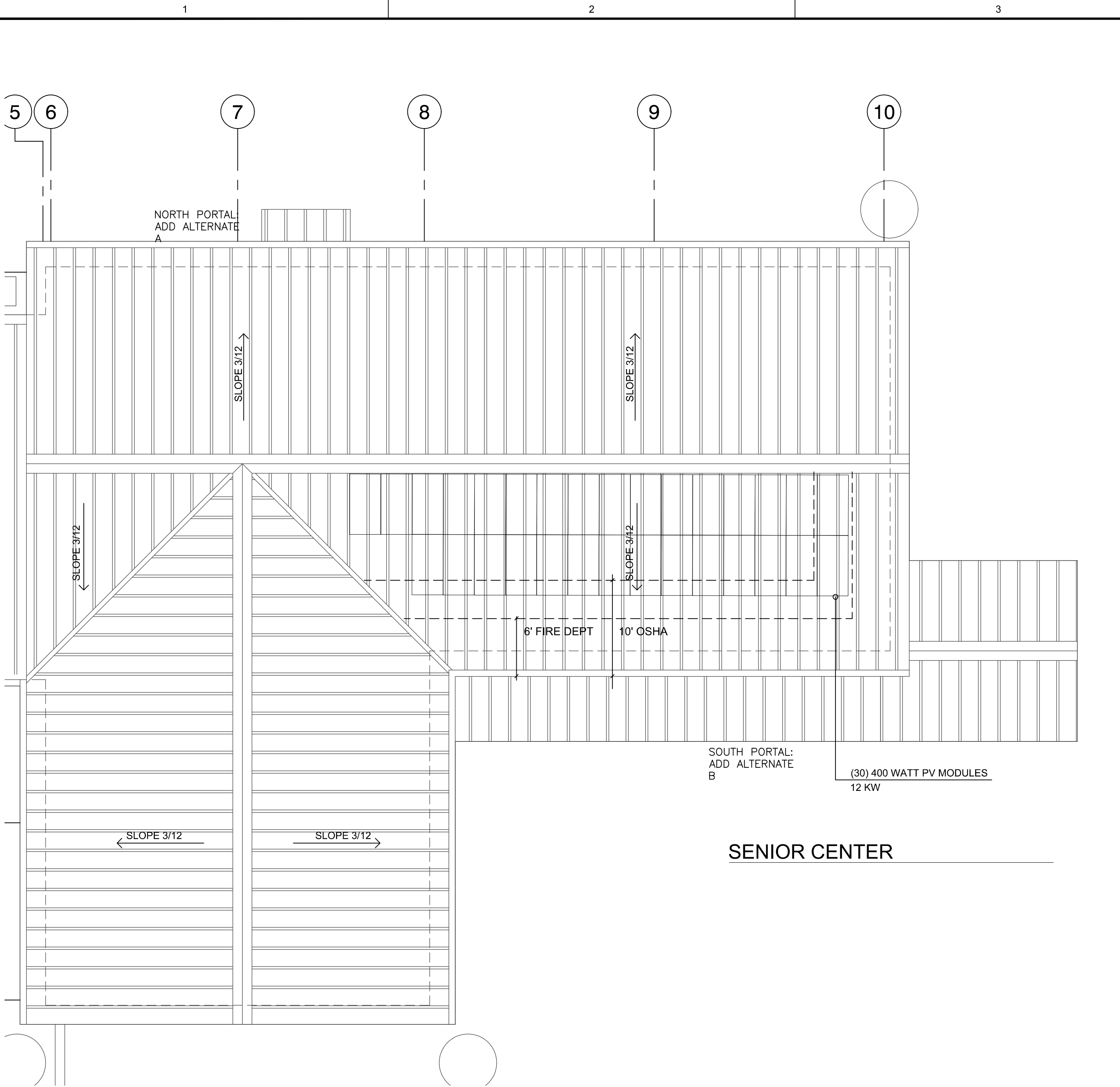
PV DIAGRAMS
AND NOTES

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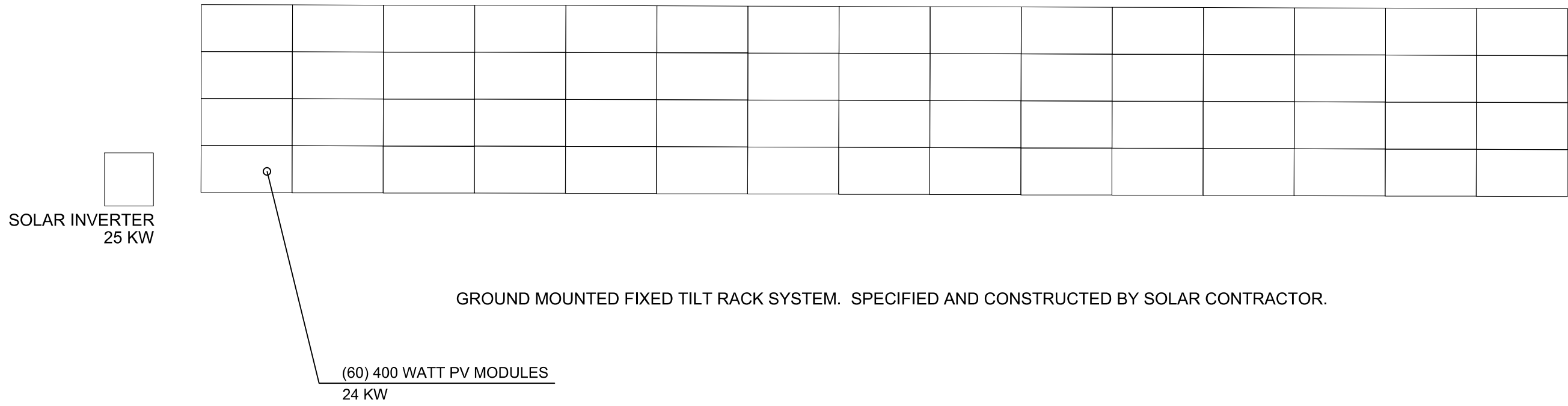
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PV100

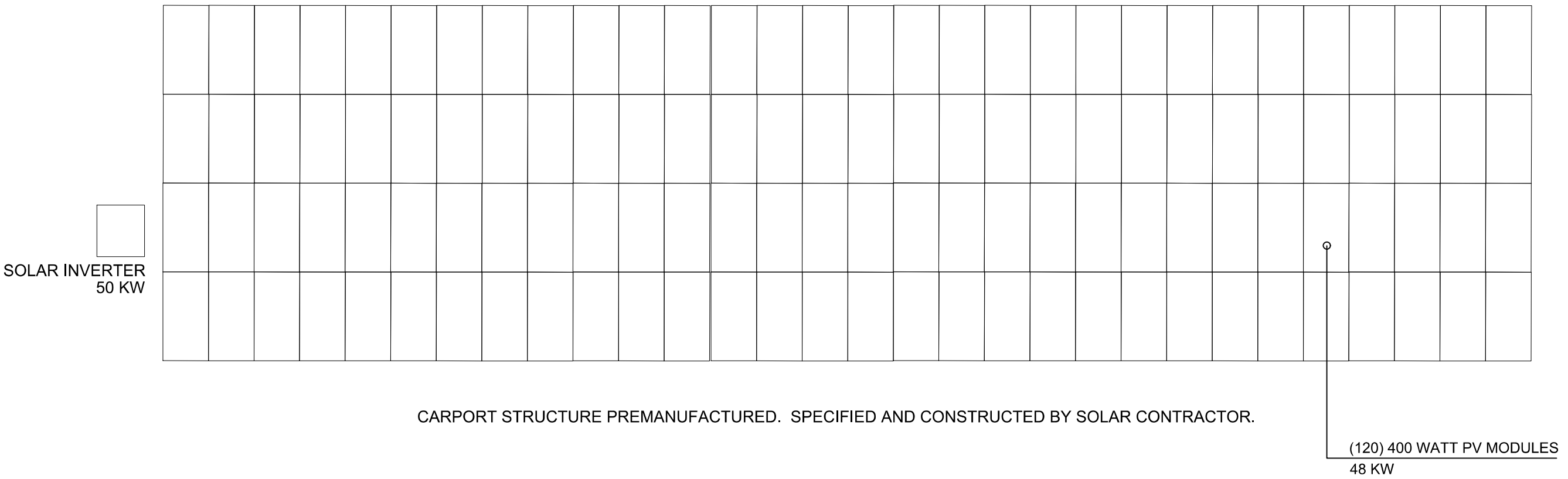
Date: Sep 27, 2021 -- 11:39am User:JSMetlting Drawing File: H:\BQ\8357\CAD\AutoCAD\8357 -- Santa Fe County, Cerrillos Senior Center\Sheets\Electrical\8357-PV101.dwg Last Saved By: JSMetlting Sep 02, 2021 -- 1:59pm Layout Name: EP131 ELECTRICAL ROOF PLAN



SENIOR CENTER



GROUND MOUNTED SOLAR STRUCTURE



PARKING SOLAR STRUCTURE

PV SYSTEM CONFIGURATION SUMMARY

PEAK DC POWER: 84 KW

PEAK POWER PER MODULE AS DESIGNED: 400W EA/
QUANTITY AS DESIGNED: 210 MODULES
MODULES PER STRING: ~15 - (VARIES)
MAX DC VOLTAGE: 600V

IN THE EVENT THAT A HIGHER CAPACITY PV MODULE BE PROVIDED, THE QUANTITY OF THE MODULES INDICATED SHALL BE MAINTAINED AND THE TOTAL PROJECT CAPACITY SHALL INCREASE ACCORDINGLY.

MOUNTING CONFIGURATIONS:

- GROUND MOUNT FIXED TILT UNIRAC (ULA)
- FIXED ROOF MOUNT - UNIRAC SM SERIES.
- CARPORT SYSTEM.

INVERTER INFORMATION:

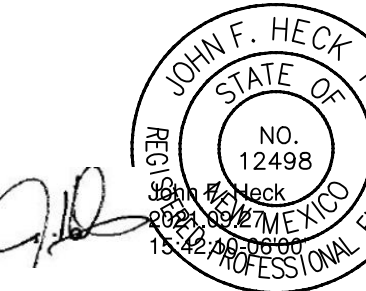
NOMINAL OUTPUT VOLTAGE: 120/208V THREE PHASE

FULLY INTEGRATED TRANSFORMER
AC/DC DISCONNECTS - FULLY INTEGRATED
3R ENCLOSURE
INTEGRATED FUSED COMBINER
WEB BASED MONITORING.

GENERAL SHEET NOTES

- A. IT IS THE SOLAR CONTRACTOR'S RESPONSIBILITY TO APPLY AND OBTAIN A GENERATION METER VARIANCE TO AVOID CONDUIT INTERCONNECTING THE ROOFTOP ARRAY TO THE PRIMARY METER ENTRANCE. VARIANCE SHALL BE COMPLETED PRIOR TO FINAL ENGINEERING AND INSTALLATION.
- B. SOLAR CONTRACTOR SHALL INCLUDE SIGNAGE AT PRIMARY METER FOR FIRST RESPONDERS TO LOCATE ROOFTOP PV ARRAY. VERIFY ALL REQUIREMENTS WITH PNM PRIOR TO INSTALLATION.
- C. MAINTAIN A 4' CLEAR PERIMETER AROUND ROOF HATCH FOR ACCESS. COORDINATE WITH ALBUQUERQUE FIRE DEPARTMENT PHOTOVOLTAIC SYSTEM INSTALLATION GUIDELINES FOR ADDITIONAL INFORMATION..
- D. MAINTAIN A 6' CLEAR PERIMETER FROM PARAPET PER ALBUQUERQUE FIRE DEPARTMENT SOLAR PHOTOVOLTAIC SYSTEM INSTALLATION GUIDELINE B-1 EXEPTION.
- E. INSTALL A WARNING LINE 10' FROM PARAPET WHICH ARE NOT AT LEAST 39" HIGH TO PROTECT AGAINST FALLS PER OSHA STANDARDS.
- F. COORDINATE LOCATION OF ROOF TOP HOSE BIB FOR PV MODULE MAINTENANCE WITH GENERAL CONTRACTOR PRIOR TO BID.
- G. ALL WORK INDICATED ON THIS SHEET IS FOR INTENT AND GENERAL INFORMATIONAL USE ONLY. IT IS THE SOLAR CONTRACTOR'S RESPONSIBILITY TO OBTAIN ALL PERMITS, PROVIE ALL SHOP DRAWINGS, ENGINEERED PERMIT DRAWINGS, ETC AND SUBMIT TO ALL AUTHORITIES HAVING JURISDICTION.
- H. REFER TO PV-100 SHEET FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

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CERILLOS SENIOR CENTER
AND TURQUOISE TRAIL # 3
FIRE STATION
LOT 3, SECTION 17, T.14N., R.8E., N.M.P.M.
SANTA FE COUNTY, NEW MEXICO

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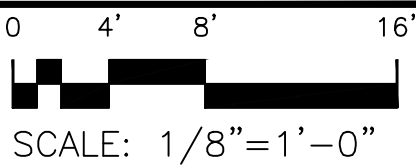
SOLAR ARRAY
LAY-OUT
(PROPOSED)

Job Number:

Sheet No.

PV101

A1 SOLAR ARRAY LAY-OUT (PROPOSED)



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