

GENERAL STRUCTURAL NOTES

GENERAL

THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS BEFORE STARTING WORK. THE ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCY. USE DETAIL MARKED "TYPICAL" WHEREVER APPLICABLE. CHANGES, OMISSIONS OR SUBSTITUTIONS ARE NOT PERMITTED WITHOUT WRITTEN APPROVAL OF THE ENGINEER. REFER TO THE SPECIFICATIONS FOR FURTHER REQUIREMENTS. DO NOT SCALE THE DRAWINGS.

ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE 2018 EDITION OF THE INTERNATIONAL BUILDING CODE.

THE DESIGN, ADEQUACY AND SAFETY OF ERECTION BRACING, SHORING, TEMPORARY SUPPORTS, ETC., IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR, AND HAS NOT BEEN CONSIDERED BY THE ENGINEER OF RECORD. THE CONTRACTOR IS RESPONSIBLE FOR THE STABILITY OF THE STRUCTURE PRIOR TO ITS COMPLETION. THE CONTRACTOR SHALL PROVIDE THE NECESSARY BRACING TO PROVIDE STABILITY PRIOR TO THE COMPLETION OF THE STRUCTURE.

THE GENERAL NOTES APPLY TO ALL STRUCTURES UNLESS NOTED OTHERWISE (U.N.O.). LOCATION AND SIZE OF ANCHOR BOLTS FOR SPECIFIC EQUIPMENT SHALL BE SPECIFIED BY THE VENDOR. CONTRACTOR SHALL COORDINATE LOCATIONS OF STRUCTURAL OPENINGS, PENETRATIONS AND EMBEDDED ITEMS WITH THE MECHANICAL, ARCHITECTURAL, ELECTRICAL, PLUMBING AND VENTILATION SECTIONS OF THE DRAWINGS AND WITH SUPPLIERS AND SUBCONTRACTORS AS MAY BE REQUIRED.

SPECIAL INSPECTION & TESTING

SPECIAL INSPECTIONS SHALL MEET THE REQUIREMENTS OF IBC CHAPTER 17. OBSERVE THE WORK ASSIGNED FOR CONFORMANCE WITH APPROVED DRAWINGS AND SPECIFICATIONS.

FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL AND ENGINEER. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION; THEN, IF NOT CORRECTED, TO THE BUILDING OFFICIAL AND ENGINEER. SUBMIT A FINAL REPORT STATING THE WORK WAS IN CONFORMANCE WITH THE APPROVED DRAWINGS AND SPECIFICATIONS AND THE APPLICABLE WORKMANSHIP PROVISIONS OF IBC.

SPECIAL INSPECTION REQUIRED:

- STEEL: IN ACCORDANCE WITH SECTION 1705.2 AND TABLE 1705.2.3
- CONCRETE: IN ACCORDANCE WITH SECTION 1705.3 AND TABLE 1705.3
- MASONRY: IN ACCORDANCE WITH SECTION 1705.4
- SOIL: IN ACCORDANCE WITH SECTION 1705.6 AND TABLE 1705.6

SHOP DRAWINGS

SHOP DRAWINGS, WHERE REQUIRED, SHALL BE CHECKED AND APPROVED BY THE GENERAL CONTRACTOR PRIOR TO SUBMITTING FOR ENGINEER REVIEW. SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW OF DESIGN INTENT, PRIOR TO FABRICATION. GENERAL CONTRACTOR IS RESPONSIBLE FOR VERIFICATION AND COORDINATION OF DIMENSIONS AND DETAILS FOR EACH SUBCONTRACTOR.

DESIGN LOADS

ROOF SNOW LOAD:
GROUND SNOW LOAD, P_g 20 PSF

ROOF LIVE LOAD, L_r 20 PSF

WIND DESIGN DATA:

ULTIMATE WIND SPEED (3-SECOND GUST), V_{ult} 115 MPH
 NOMINAL WIND SPEED, V_{asd} 89 MPH
 RISK CATEGORY..... III
 WIND EXPOSURE..... C

EARTHQUAKE DESIGN DATA

MAPPED SPECTRAL RESPONSE ACCELERATIONS
 S_s 1.282 g
 S_1 0.441 g
 SITE CLASS..... D
 SPECTRAL RESPONSE COEFFICIENT
 S_{ds} 1.025 g
 S_{d1} 0.547 g
 SEISMIC IMPORTANCE FACTOR, I_e 1.25
 RISK CATEGORY..... III
 SEISMIC DESIGN CATEGORY..... D

FOUNDATION DATA PER GEOTECHNICAL REPORT BY PanGEO, INC., DATED JULY 14, 2020.

ALLOWABLE BEARING PRESSURE.....2000 PSF

ABOVE ARE ASSUMED PER DATA PROVIDED, CONTRACTOR MUST VERIFY IN FIELD.

EXTEND ALL EXTERIOR FOOTINGS 2'-0" MINIMUM BELOW FINISHED GRADE. UNO (UNLESS NOTED OTHERWISE), BOTTOM OF ALL FOOTINGS TO BEAR ON A MINIMUM OF 18" COMPACTED STRUCTURAL FILL EXTENDING A MINIMUM OF 18" HORIZONTALLY BEYOND THE EDGE OF THE FOOTINGS OVER NATIVE, INORGANIC, UNDISTURBED SOIL. NO FOOTING SHALL BEAR HIGHER THAN 1 VERTICAL TO 1.5 HORIZONTAL SLOPE ABOVE ANY EXCAVATION, EXISTING OR PLANNED. CONTRACTOR SHALL PROVIDE TEMPORARY SHORING TO PREVENT MOVEMENT OF WALLS IF BACKFILL IS PLACED BEFORE FLOOR SYSTEM IS IN PLACE. THERE SHALL BE 95% COMPACTION (ASTM D1557 MODIFIED PROCTOR DENSITY) OF ALL BACKFILL SOIL UNDER SLABS ON GRADE.

MASONRY

SPECIFIED COMPRESSIVE STRENGTH OF MASONRY ASSEMBLY: $f'_m=1500$ PSI.
 CONCRETE MASONRY UNITS: ASTM C90, GRADE N-TYPE I, MEDIUM WEIGHT RUNNING BOND.
 MORTAR: ASTM C270, TYPE S, MIN. COMPRESSIVE STRENGTH OF 1800 PSI AT 28 DAYS. GROUT: ASTM C476 WITH A MIN. COMPRESSIVE STRENGTH OF 2000 PSI AT 28 DAYS. FILL ALL CELLS CONTAINING REINFORCING WITH GROUT IN LIFTS NOT EXCEEDING 4'-0" IN HEIGHT. FILL OTHER CELLS WITH GROUT AS INDICATED ON DRAWINGS. ALL REINFORCEMENT SHALL BE IN PLACE PRIOR TO GROUTING WITH VERTICAL BARS HELD AT TOP, BOTTOM AND 192 DIAMETERS MAXIMUM ON CENTERS. CONTRACTOR SHALL PROVIDE TEMPORARY BRACING FOR MASONRY WALLS, AS REQUIRED, UNTIL CONNECTIONS TO FLOOR AND/OR ROOF DIAPHRAGMS ARE COMPLETED.

CAST-IN-PLACE CONCRETE

CONCRETE SHALL HAVE THE FOLLOWING PROPERTIES:
 28-DAY STRENGTH $f'_c=4,000$ PSI
 AIR ENTRAINMENT: 5%-7%
 MAXIMUM SLUMP: 3" FOR SLABS FOOTINGS, 4" FOR WALLS, COLUMNS AND BEAMS. CONSTRUCTION TO BE IN ACCORDANCE WITH ACI 318.

SUBMIT MIX DESIGN FOR REVIEW AND PROVIDE NOT LESS THAN 6 SACKS OF CEMENT PER CUBIC YARD FOR ALL CONCRETE WITH MAXIMUM $w/c=0.45$.

REINFORCING STEEL

WELDED WIRE FABRIC (W.W.F.): ASTM A82 AND A185
 DEFORMED BARS: ASTM A615, GRADE 60 (GRADE 40 FOR #3).
 UNLESS OTHERWISE NOTED ON THESE DRAWINGS, MINIMUM CONCRETE COVER FOR REINFORCING BARS SHALL BE AS FOLLOWS:

- CONCRETE CAST AGAINST SOIL=3".
- FORMED CONCRETE AGAINST SOIL=2".
- WALLS, COLUMNS AND BEAMS EXPOSED TO WATER, SEWAGE & WEATHER=2".
- WALLS, COLUMNS AND BEAMS DRY CONDITION=1 1/2".

PROVIDE 2-#5 MIN. U.N.O. TRIM BARS AROUND ALL OPENINGS IN CONCRETE WALLS OR SLAB EXTENDING 2'-6" PAST CORNERS, TYP. AT TIME OF CONCRETE PLACEMENT, REINFORCING SHALL BE FREE OF MUD, OIL, OR OTHER NONMETALLIC COATINGS THAT MAY DECREASE BOND.

WELDING OF REINFORCING BARS SHALL CONFORM TO ANSI/AWS D1.4. WHERE PERMITTED, LOW HYDROGEN WELDING RODS SHALL BE USED FOR ALL WELDING OF REINFORCING BARS. SPECIAL INSPECTION IS REQUIRED FOR ALL FIELD WELDING.

SUBMIT SHOP DRAWINGS OF REINFORCING STEEL FOR REVIEW BY THE ENGINEER PRIOR TO FABRICATION. REINFORCING SHALL BE DETAILED IN ACCORDANCE WITH ACI 315 AND 318 (LATEST EDITION).

STRUCTURAL STEEL AND MISCELLANEOUS METALS

CHANNELS, ANGLES, PLATES, AND BARS: ASTM A36, $F_y=36$ KSI.
 W-SHAPES: ASTM A992, $F_y=50$ KSI.

ALL BOLTS FOR CONNECTIONS IN SUBMERGED CONDITION SHALL BE: ASTM F593C OR F593D STAINLESS STEEL (SS) BOLTS. ALL OTHERS SHALL BE GALVANIZED ASTM A325-N BOLTS HIGH STRENGTH BOLTS (H.S.B.), U.N.O. AS ASTM A307 MACHINE BOLTS (M.B.). WHERE HIGH STRENGTH BOLTS ARE USED, THEY SHALL BE INSTALLED WITH LOAD INDICATOR DEVICES (LOAD INDICATOR WASHERS OR SNAP-OFF HEADS).
 ADHESIVE ANCHORS: HILTI HIT-HY 270 OR APPROVED EQUAL, U.N.O. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

HEADED ANCHOR STUDS (H.A.S.): ASTM A108, $F_y=50$ KSI, END WELDED PER MANUFACTURER'S RECOMMENDATIONS. ALL ANCHOR BOLTS AND THREADED RODS: ASTM F1554, U.N.O. ALL ANCHOR BOLTS MUST BE ACCURATELY PLACED IN THEIR FINAL LOCATION PRIOR TO POURING CONCRETE, "WET STICKING" OF ANCHOR BOLTS IS NOT ALLOWED.

WELDING ELECTRODES OR WIRES: AWS A5.1 OR A5.5, E70XX; AWS A5.17, E70S-X; AWS A5.20, E7XT-X. FOR ALL SHOP WELDS AND FIELD WELDS OF ALL LATERAL RESISTING ELEMENTS, ELECTRODES SHALL BE E70 WITH A MINIMUM SPECIFIED CVN OF 20 FT-LBS AT -20 DEGREES FAHRENHEIT. ALL WELDS SHALL BE 3/16" MINIMUM U.N.O.

ERECTION AND FABRICATION IN ACCORDANCE WITH AISC "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS." WELDING SHALL CONFORM TO AWS "STRUCTURAL WELDING CODE - STEEL". ALL WELDING SHALL BE PERFORMED BY AWS/WABO CERTIFIED WELDERS.

ALL COLUMNS AND BEAMS TO BE FROM UNSPLICED LENGTHS U.N.O. ON THE DRAWINGS. SUBMIT SHOP DRAWINGS SHOWING SIZES, DIMENSIONS AND REQUIRED CONNECTION DETAILS FOR REVIEW BY THE ENGINEER PRIOR TO FABRICATION.

STEEL DECK

PAINTED STEEL DECKING SHALL CONFORM TO ASTM A1008 GRADE 33 OR HIGHER. GALVANIZED STEEL DECKING SHALL CONFORM TO ASTM A653 GRADE 33 OR HIGHER, WITH G60 COATING. INDIVIDUAL SHEET LENGTH SHALL BE CONTINUOUS FOR 3 OR MORE SPANS. SUBMIT SHOP DRAWINGS SHOWING LAYOUT FOR REVIEW BY THE ENGINEER.

BUILDING PROJECT DATA

CODES:

- IBC 2018 INTERNATIONAL BUILDING CODE
- IMC 2018 INTERNATIONAL MECHANICAL CODE
- IFC 2018 INTERNATIONAL FIRE CODE
- WSEC 2018 WASHINGTON STATE ENERGY CODE

PROJECT DESCRIPTION:

A SINGLE STORY CMU ADDITION TO EXISTING CMU BUILDING CONTAINING ELECTRICAL ROOM, AND RE-ROOFING OF ENTIRE STRUCTURE.

OCCUPANCY

F-1 ELECTRICAL ROOM

TYPE OF CONSTRUCTION:

TYPE - V.B.

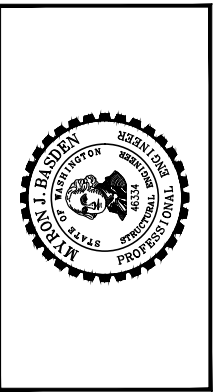
GENERAL BUILDING AREA NOTES:

1. ALLOWABLE AREA (TABLE 506.2) = 8,500 SF
 PROPOSED AREA = 295 SF



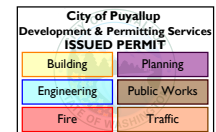
DATE: MAR 2021	RAH	AG	MJB
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PERMIT SET	DATE	APPD
	REVISION	No.



CITY OF PUYALLUP
 WASHINGTON
 PIERCE COUNTY
NORTH LEVEE ROAD PUMP STATION REPLACEMENT
 GENERAL STRUCTURAL NOTES

SHEET: S-1
OF: 8
JOB NO.: 20503
DWG: S-STND



APPROVED

BY: _____
 CITY ENGINEER
 CITY OF PUYALLUP

APPROVED DATE: _____
 EXPIRATION DATE: _____

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0 1" 2"
 TWO INCHES AT FULL SCALE.
 IF NOT, SCALE ACCORDINGLY

m:\PUYALLUP\20503 - north levee road pump station\02.planset\Structural\S_STND.dwg, 3/30/2021 9:35 AM, RUSSELL HORITA

SPECIAL INSPECTION SCHEDULE

VERIFICATION AND INSPECTION	CI	PI	REMARKS/REFERENCES
CONCRETE:			
REINFORCING STEEL INCLUDING PLACEMENT	-	X	ACI 318: CH 20, 25.2, 25.3, 26.6.1-26.6.3
ANCHOR RODS, EMBEDDED BOLTS AND INSERTS	X	-	PRIOR TO AND DURING PLACEMENT OF CONCRETE
USE OF REQUIRED DESIGN MIX	-	X	ACI 318: CH. 19, 26.4.3, 26.4.4
CONCRETE SLUMP, AIR CONTENT, TEMPERATURE AND TEST SPECIMENS	X	-	WHILE MAKING SPECIMENS FOR STRENGTH TESTS
CONCRETE AND SHOTCRETE PLACEMENT	X	-	ACI 318: 26.5
CONCRETE CURING	-	X	ACI 318: 26.5.3-26.5.5
CONCRETE FORMWORK FOR SHAPE, LOCATIONS AND DIMENSIONS	-	X	ACI 318: 26.11.1.2(6)
MASONRY:			
PROVISIONS OF CONSTRUCTION DOCUMENTS AND SUBMITTALS	-	X	
VERIFICATION OF F'm and F'ac	-	X	PRIOR TO CONSTRUCTION
SLUMP FLOW AND VSI	X	-	
SITE-PREPARED MORTAR AND MORTAR JOINTS	-	X	BEGINS & PRIOR CONSTRUCTION
LOCATION OF REINFORCEMENT, CONNECTORS, AND ANCHORAGES	-	X	AS MASONRY CONSTRUCTION BEGINS
SIZE AND LOCATION OF STRUCTURAL ELEMENTS	-	X	DURING CONSTRUCTION
ANCHOR TYPE, SIZE AND LOCATION	-	X	DURING CONSTRUCTION
SIZE, GRADE AND TYPE OF REINFORCEMENT, BOLTS AND ANCHORAGES	-	X	DURING/PRIOR CONSTRUCTION
HOT/COLD WEATHER CONSTRUCTION	-	X	DURING CONSTRUCTION
GROUT SPACE	-	X	PRIOR TO GROUTING
STEEL:			
MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS, NUTS AND WASHERS:			
MANUFACTURER'S CERTIFICATE	-	X	
INSPECTION OF HIGH-STRENGTH BOLTING:	-	X	AISC 360, SECTION N5.6
MATERIAL VERIFICATION OF STRUCTURAL STEEL AND COLD-FORMED STEEL DECK:	-	X	
IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS	-	X	AISC 360, N5.7
INSPECTION OF WELDING:			
COMPLETE AND PARTIAL PENETRATION GROOVE WELDS	X	-	AWS D1.1
MULTIPASS, SINGLE-PASS FILLET WELDS > 5/16", PLUG AND SLOT WELDS	X	-	AWS D1.1
SINGLE-PASS FILLET WELDS < 5/16", FLOOR AND ROOF DECK WELDS	-	X	AWS D1.3
REINFORCING STEEL	X	-	AWS D1.4, ACI 318: SECTION 26.6.4
SOILS:			
VERIFY DESIGN BEARING CAPACITY	-	X	
VERIFY EXCAVATIONS	-	X	
CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS	-	X	
USE OF MATERIALS, DENSITIES AND LIFT THICKNESSES	X	-	DURING PLACEMENT AND COMPACTION
OBSERVE SUBGRADE AND SITE PREPARED PROPERLY	-	X	PRIOR TO PLACEMENT OF COMPACTED FILL

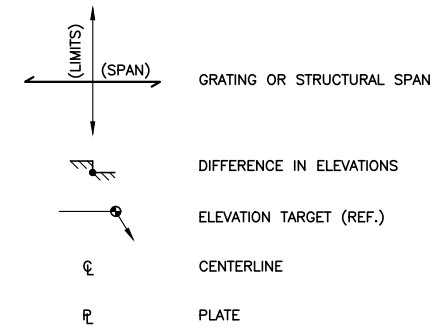
INSPECTION SCHEDULE NOTES

- ITEMS MARKED WITH AN "X" REQUIRE INSPECTION BY A SPECIAL INSPECTOR APPROVED BY THE BUILDING OFFICIAL.
- ITEMS MARKED "NA" ARE NOT APPLICABLE TO THIS PROJECT.
- CI = CONTINUOUS INSPECTION DURING PROGRESS OF WORK BY SPECIAL INSPECTOR.
- PI = PERIODIC INSPECTION BY SPECIAL INSPECTOR AS REQUIRED TO CONFIRM CONFORMANCE OF WORK.
- TESTING AND INSPECTION REPORTS SHALL BE SUBMITTED TO THE ENGINEER, BUILDING OFFICIAL AND CONTRACTOR.
- OWNER WILL CONTRACT FOR SPECIAL INSPECTION SERVICES.

SUPPLEMENTAL STRUCTURAL ABBREVIATIONS:

AFF ABOVE FINISH FLOOR	FRM'G FRAMING	T TOP
AL ALUMINUM	FS FAR SIDE	TN TOE NAIL
APPRX APPROXIMATE	FTG FOOTING	TO TOP OF
ARCH ARCHITECTURAL	GA GAUGE	TOS TOP OF SLAB
@ AT	HAS HEADER ANCHOR STUDS	TRANSVERSE TRANSVERSE
BEL BELOW	HDR HEADER	TYP TYPICAL
BM BEAM	HGR HANGER	UNLESS NOTED OTHERWISE UNLESS NOTED OTHERWISE
BN BOUNDARY NAIL	IBC INTERNATIONAL BUILDING CODE	VERIFY VERIFY
BO BOTTOM OF	IF INSIDE FACE	WP WORK POINT
BOS BOTTOM OF SLAB	INT INTERIOR	
BOT BOTTOM	JST JOIST	
BRG BEARING	LAT LATERAL	
CDF CONTROLLED DENSITY FILL	LDGR LEDGER	
CIP CAST IN PLACE	LLH LONG LEG HORIZONTAL	
CJ CONTROL JOINT	LLV LONG LEG VERTICAL	
CONST CONSTRUCTION	LS LAG SCREW	
CONT CONTINUOUS	MAS MASONRY	
CTSK COUNTERSINK	MAT'L MATERIAL	
D DEPTH	MFR MANUFACTURER	
d PENNY (NAILS)	MTL METAL	
DBL DOUBLE	(N) NEW MEMBER	
DIAPH DIAPHRAGM	NS NEAR SIDE	
do DITTO (DO OVER)	OH OVERHANG	
DWG DRAWING	ORNT ORIENTATE (ION)	
DWL DOWEL	PAR PARALLEL	
EA EACH	PERP PERPENDICULAR	
EF EACH FACE	PT PRESSURE TREAT(ED)	
EJ EXPANSION JOINT	QTY QUANTITY	
EMBD EMBED(MENT)	REF REFERENCE	
EN EDGE NAIL	REINF REINFORCEMENT	
ENG ENGINEER	SHT SHEET	
EQ EQUAL	SHTG SHEATHING	
ES EACH SIDE	SIM SIMILAR	
EXIST EXISTING MEMBER	SPC SPACING	
EXT EXTERIOR	SS STAINLESS STEEL	
FFE FINISHED FLOOR ELEVATION	STGR STAGGER	
FN FACE NAIL	STIRR STIRRUP	
FND FOUNDATION	STRUC STRUCTURE(AL)	
FO FACE OF	SYM SYMMETRICAL	

STRUCTURAL LEGEND

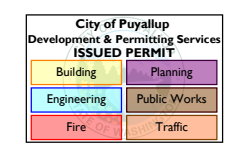


DATE: MAR 2021	RAH	AG	MJB
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REVISION	No.



CITY OF PUYALLUP
 PIERCE COUNTY WASHINGTON
NORTH LEVEE ROAD PUMP STATION REPLACEMENT
 SPECIAL INSPECTION SCHEDULE, SUPPLEMENTAL STRUCTURAL ABBREVIATIONS, AND STRUCTURAL LEGEND



APPROVED

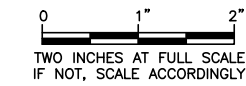
BY: _____
 CITY ENGINEER
 CITY OF PUYALLUP

APPROVED DATE: _____
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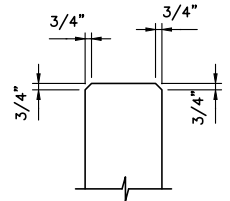
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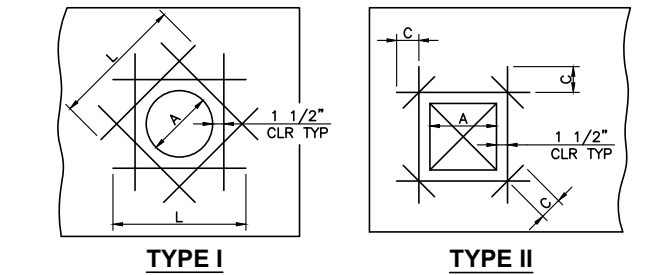
SHEET: S-2
OF: 8
JOB NO.: 20503
DWG: S_STND

REINF	LAP
#4	2'-4"
#5	3'-0"
#6	3'-6"
#7	4'-3"
#8	4'-10"
#9	5'-3"
#10	6'-6"
#11	8'-0"

1 **TYP. LAP SCHEDULE**
TYP NOT TO SCALE

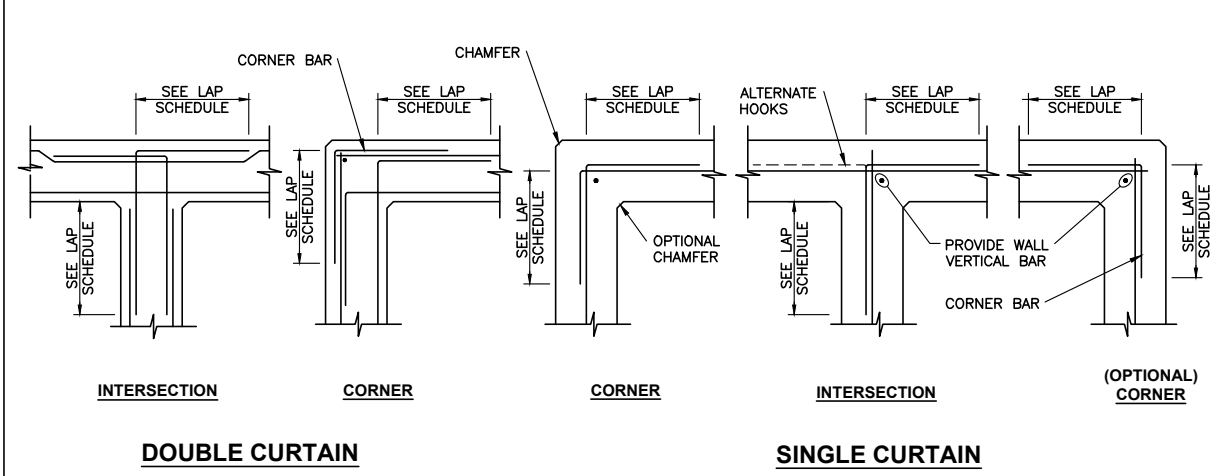


2 **TYP. CHAMFER DETAIL**
TYP NOT TO SCALE

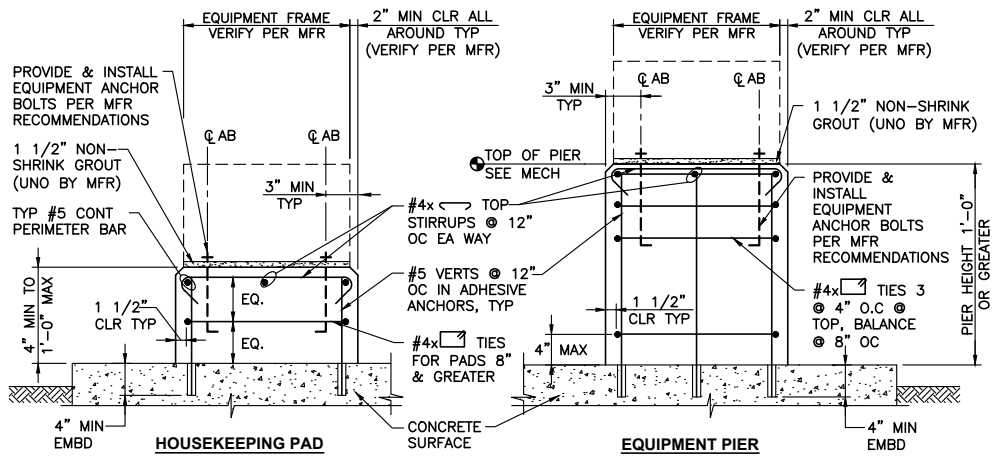


TYPE I		TYPE II	
OPENING SIZE (A)	MINIMUM BAR LENGTH (L)	(C)	BAR SIZE
0" - 12"	3' - 9"	1' - 0"	#5
13" - 18"	4' - 9"	1' - 3"	#6
19" - 24"	6' - 9"	2' - 6"	MATCH VERTICAL BARS OR LARGEST BAR IN SLABS OR WALKWAYS
25" - 36"	7' - 9"	2' - 6"	MATCH VERTICAL BARS OR LARGEST BAR IN SLABS OR WALKWAYS
36" -	8' - 9"	2' - 6"	MATCH VERTICAL BARS OR LARGEST BAR IN SLABS OR WALKWAYS

3 **TYP PENETRATION REINFORCING DETAIL**
TYP NOT TO SCALE

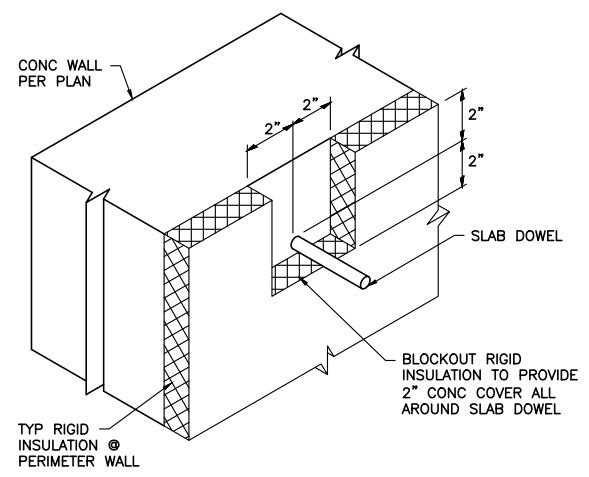


4 **TYP REINFORCING @ WALL INTERSECTION DETAIL**
TYP NOT TO SCALE

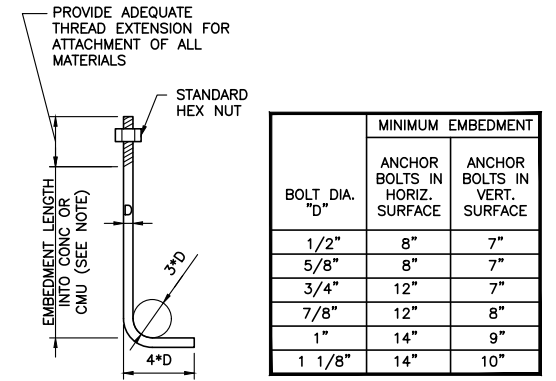


5 **TYP HOUSEKEEPING PAD & EQUIPMENT PIER DETAILS**
TYP NOT TO SCALE

NOTES:
1. CHAMFER ALL EXPOSED CORNERS OF HOUSEKEEPING PADS AND EQUIPMENT PIERS.
2. FOR PIER HEIGHT LESS THAN 1'-0" SEE HOUSEKEEPING PAD DETAIL



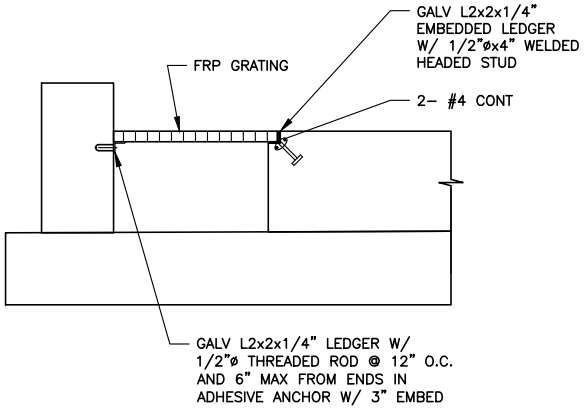
6 **TYP CONCRETE COVER @ SLAB REINF & INSULATION DETAIL**
TYP NOT TO SCALE



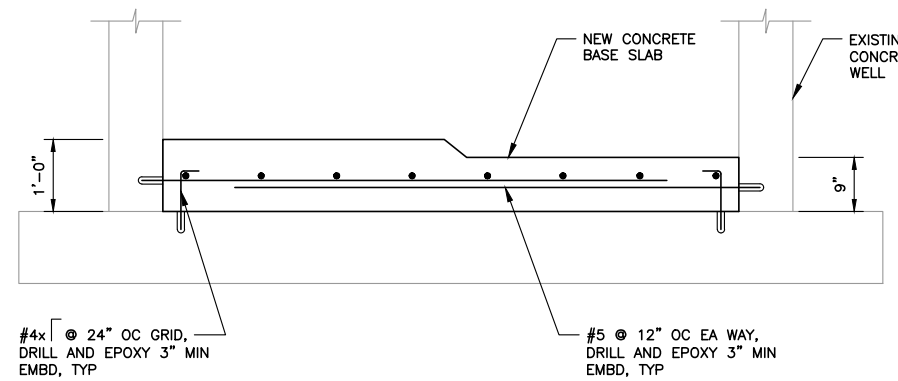
7 **TYP ANCHOR BOLT DETAIL**
TYP NOT TO SCALE

BOLT DIA. "d"	MINIMUM EMBEDMENT	
	ANCHOR BOLTS IN HORIZ. SURFACE	ANCHOR BOLTS IN VERT. SURFACE
1/2"	8"	7"
5/8"	8"	7"
3/4"	12"	7"
7/8"	12"	8"
1"	14"	9"
1 1/8"	14"	10"

NOTE:
ANCHOR BOLT EMBEDMENT IN VERTICAL SURFACE APPLIES TO CONCRETE ONLY.



8 **SUMP PUMP GRATING SUPPORT DETAIL**
TYP NOT TO SCALE



9 **WET WELL BASE SLAB DETAIL**
TYP NOT TO SCALE

NOTE:
SEE M-SHEETS FOR BALANCE OF INFORMATION.

City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

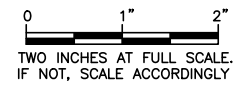
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BY: _____
CITY ENGINEER
CITY OF PUYALLUP

APPROVED DATE: _____
EXPIRATION DATE: _____

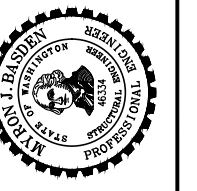
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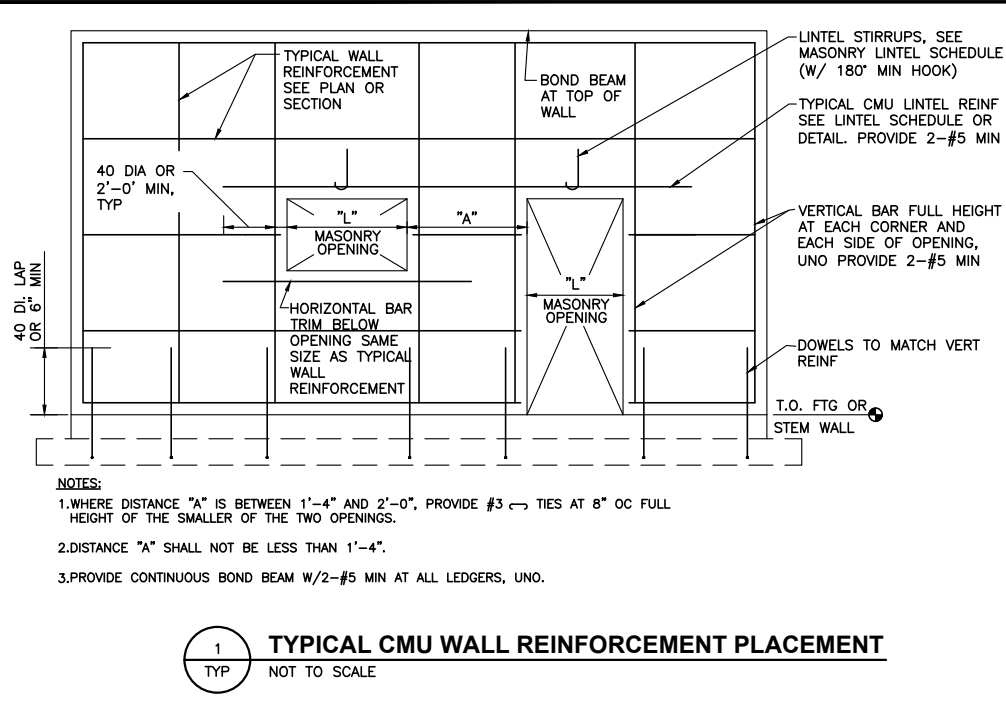
No.	REVISION	DATE	APPD



CITY OF PUYALLUP
PIERCE COUNTY WASHINGTON
NORTH LEVEE ROAD PUMP STATION REPLACEMENT
TYPICAL STRUCTURAL DETAILS

SHEET: S-3
OF: 8
JOB NO.: 20503
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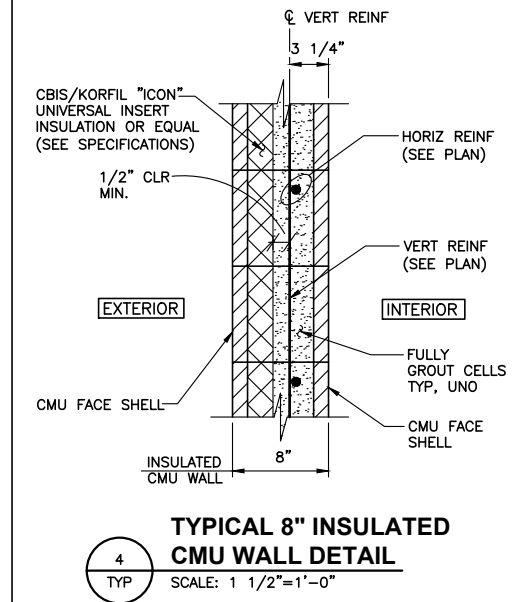
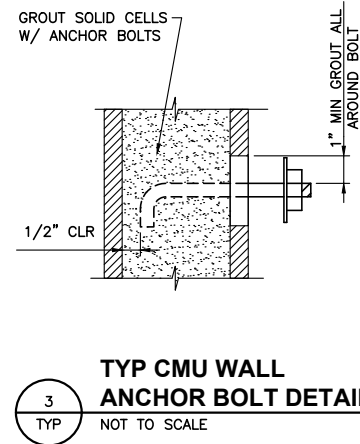
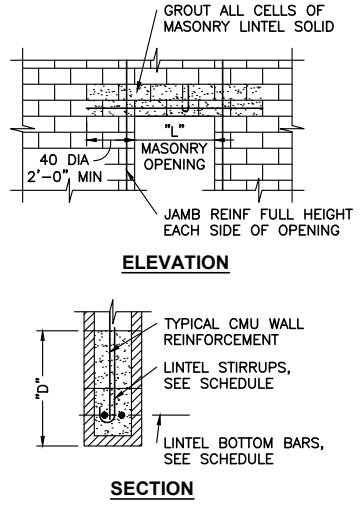
m:\PUYALLUP\20503 - north levee road pump station\02_planset\Structural\S_STND.dwg, 3/30/2021 9:35 AM, RUSSELL HORITA



LINTEL SCHEDULE			
MASONRY OPENING "L"	DEPTH "D"	REINFORCEMENT	
		BOTTOM BARS	STIRRUPS
LESS THAN 4'-0"	16"	2-#5	#3 @ 16" OC

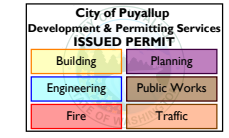
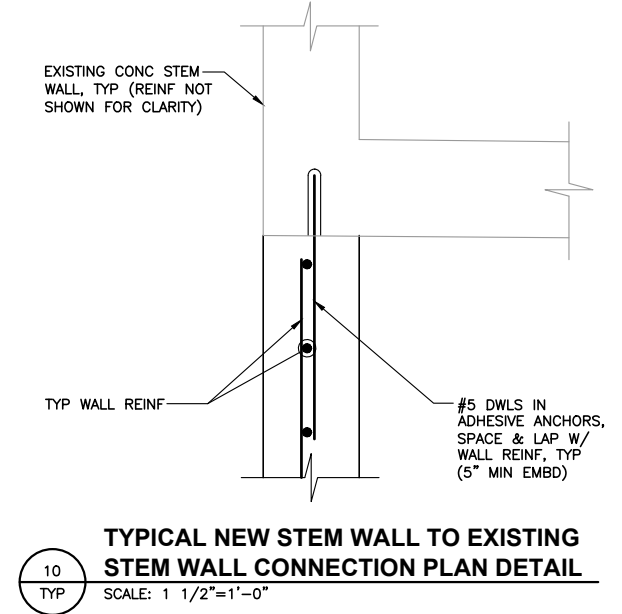
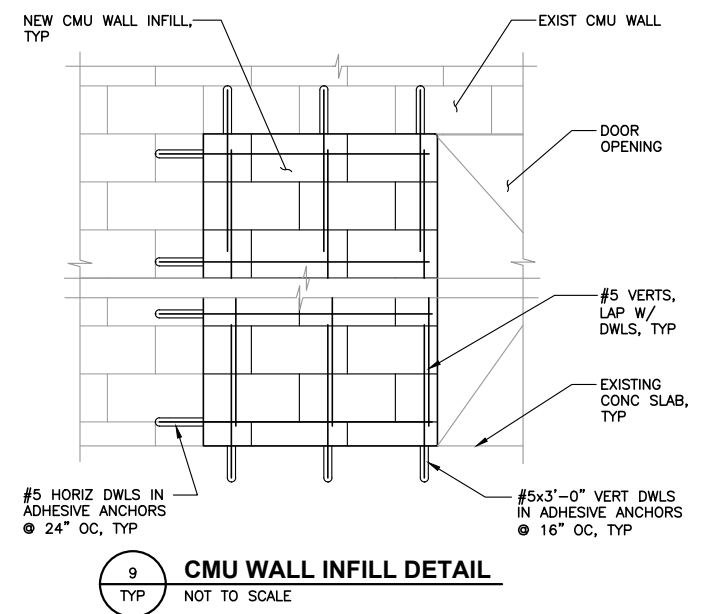
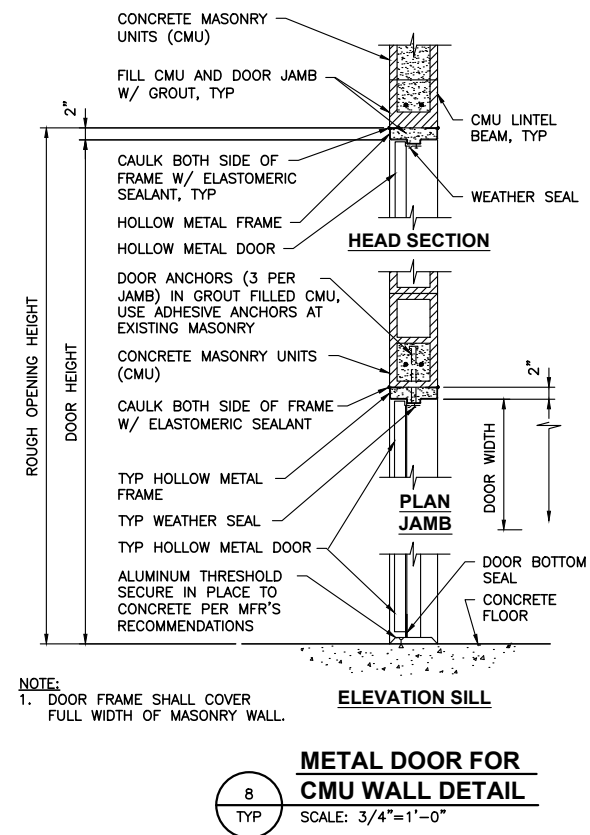
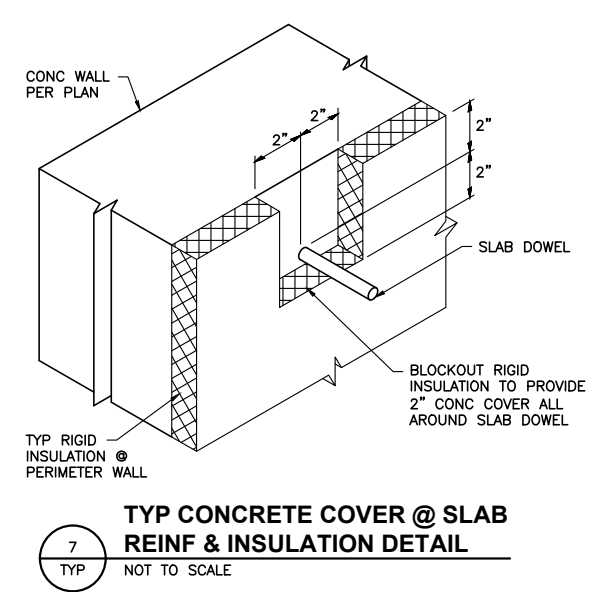
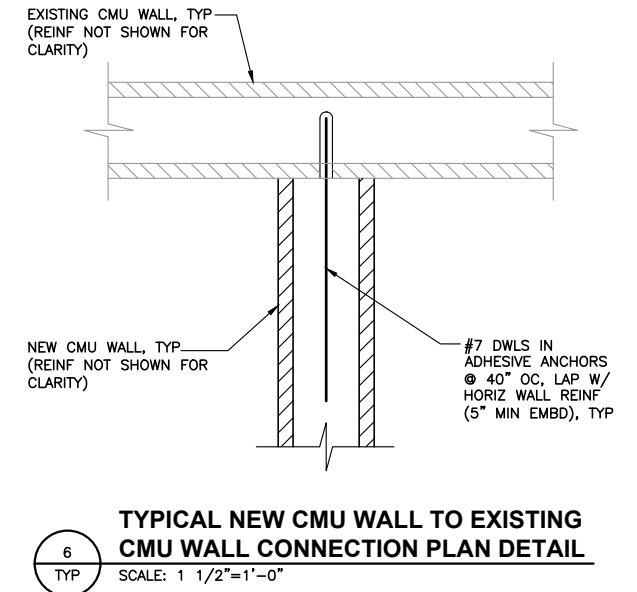
NOTE:
MASONRY CONTROL JOINT WHERE REQUIRED SHALL NOT BE LOCATED CLOSER THAN 5'-0" TO JAMB

2 TYP CMU LINTEL SCHEDULE AND DETAIL
TYP NOT TO SCALE

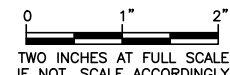


LOCATION	CONNECTION	REMARKS
END BRG'S AND INTERMEDIATE SUPPORTS	36" WIDE DECK SHEETS 7 MIN-HILTI X-ENP19, OR EQUAL	MINIMUM END LAP - 2" MIN
SIDE LAPS	VERCO SIDELAP CONNECTION (VSC2) @ 12" OC, OR EQUAL	
PANEL EDGES ALONG MARGINAL SUPPORTS	1/2" @ 8" OC LEDGER ANGLE	TYP UNO

5 TYP TYP ROOF METAL DECK ATTACHMENT SCHEDULE
TYP NOT TO SCALE

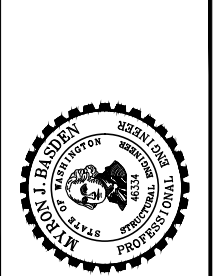


APPROVED
BY: _____
CITY ENGINEER
CITY OF PUYALLUP
APPROVED DATE: _____
EXPIRATION DATE: _____
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DATE: MAR 2021	DRAWN: RAH	CHECKED: AQ	APPROVED: MJB
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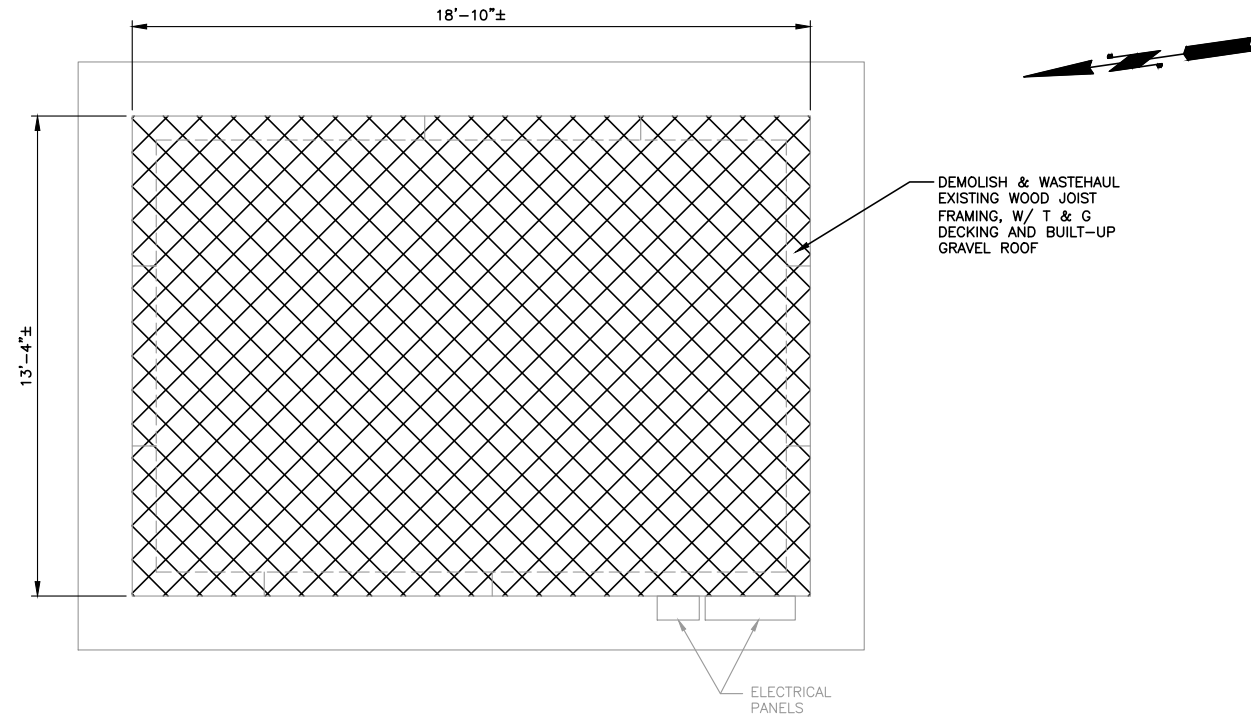
DATE	APPD



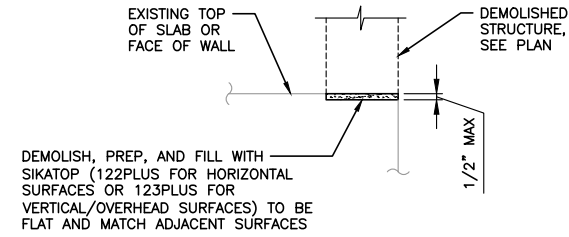
CITY OF PUYALLUP
PIERCE COUNTY WASHINGTON
NORTH LEEVE ROAD PUMP STATION REPLACEMENT
TYPICAL STRUCTURAL DETAILS

SHEET: S-4
OF: 8
JOB NO.: 20503
DWG: S-STND

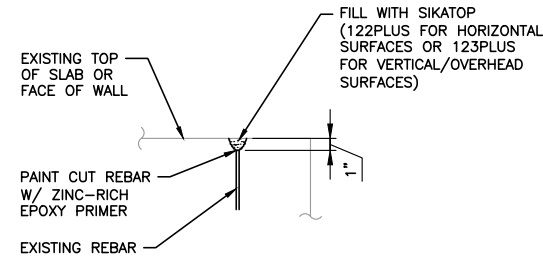
m:\PUYALLUP\20503 - north levee road pump station\02_planset\Structural\S_STND.dwg, 3/30/2021 9:35 AM, RUSSELL HORITA



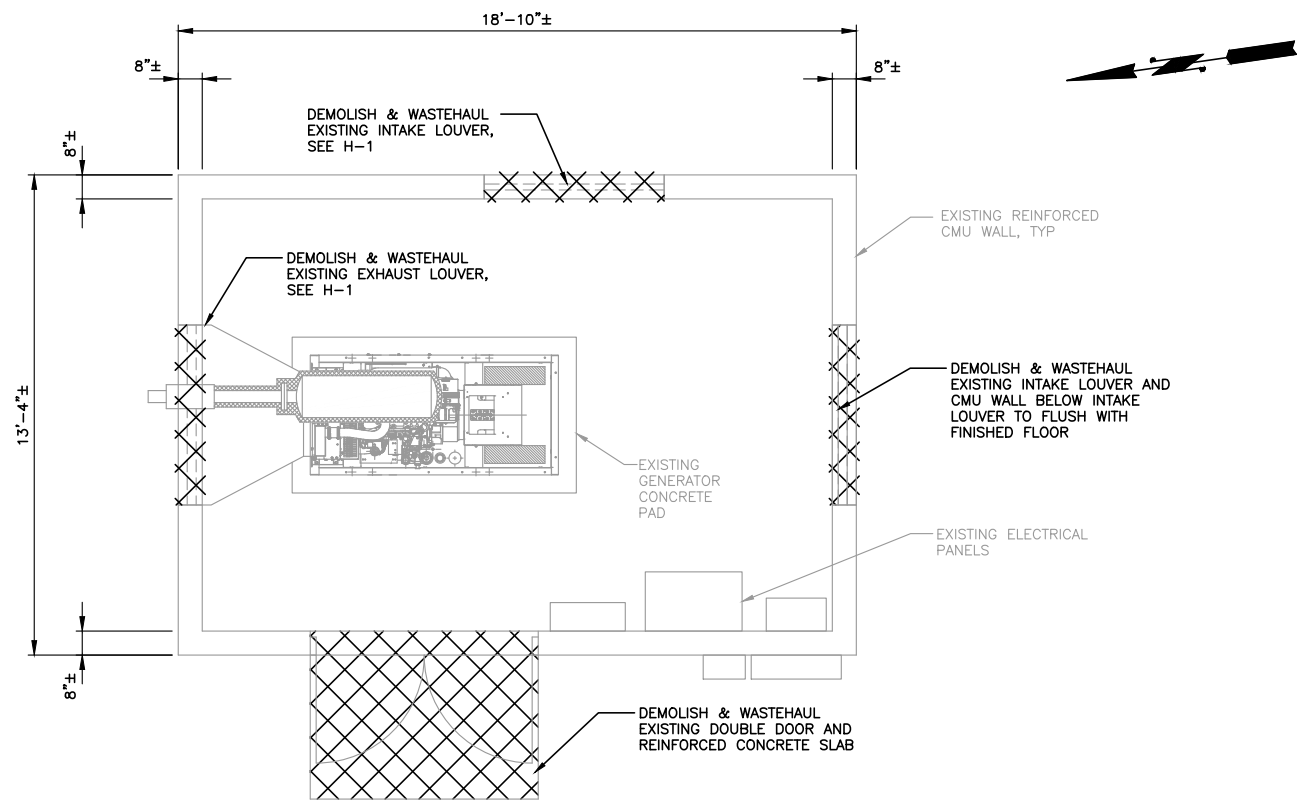
**GENERATOR BUILDING
ROOF DEMOLITION PLAN**
SCALE: 3/8"=1'-0"



TYPICAL DEMOLITION BOUNDARY DETAIL



TYPICAL REBAR DEMOLITION DETAIL



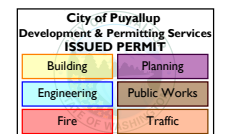
**GENERATOR BUILDING
FLOOR DEMOLITION PLAN**
SCALE: 3/8"=1'-0"

LEGEND:

DENOTES ITEMS TO BE DEMOLISHED BY THE CONTRACTOR IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS.

NOTES:

- SEE SHEETS S-1 THROUGH S-4 FOR GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS.
- DIMENSIONS SHOWN ON STRUCTURAL PLANS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY.
- EXISTING CONDITIONS AND DIMENSIONS ARE BASED ON BEST AVAILABLE INFORMATION. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING DIMENSIONS PRIOR TO THE START OF CONSTRUCTION.
- SEE M-SHEETS FOR ADDITIONAL DEMOLITION INFORMATION.

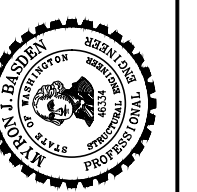


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0 1" 2"
TWO INCHES AT FULL SCALE.
IF NOT, SCALE ACCORDINGLY

DATE: MAR 2021	RAH	AG	MJB
DRAWN:	CHECKED:	APPROVED:	

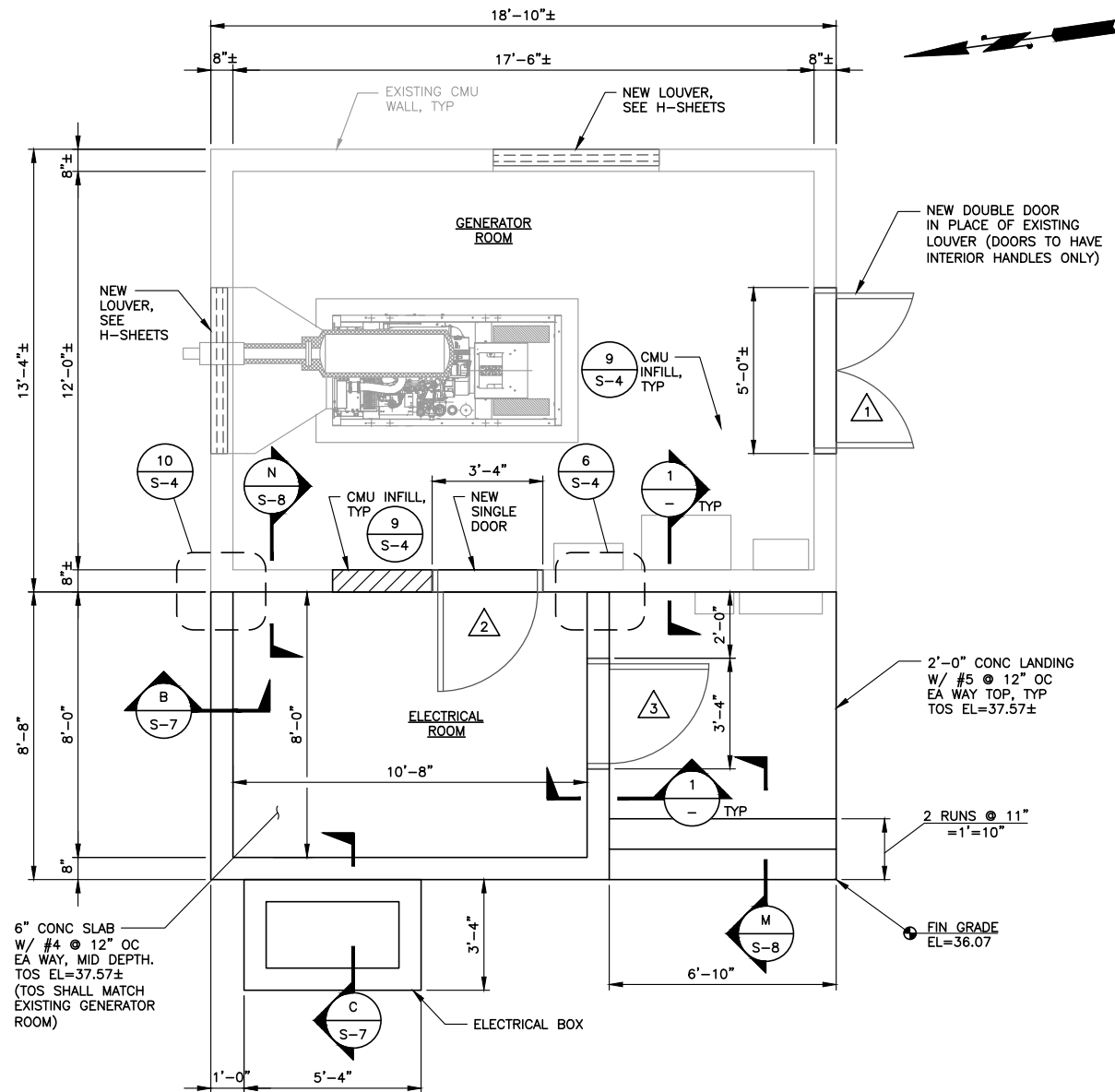
PERMIT SET	DATE	APPD
	REVISION	
No.		



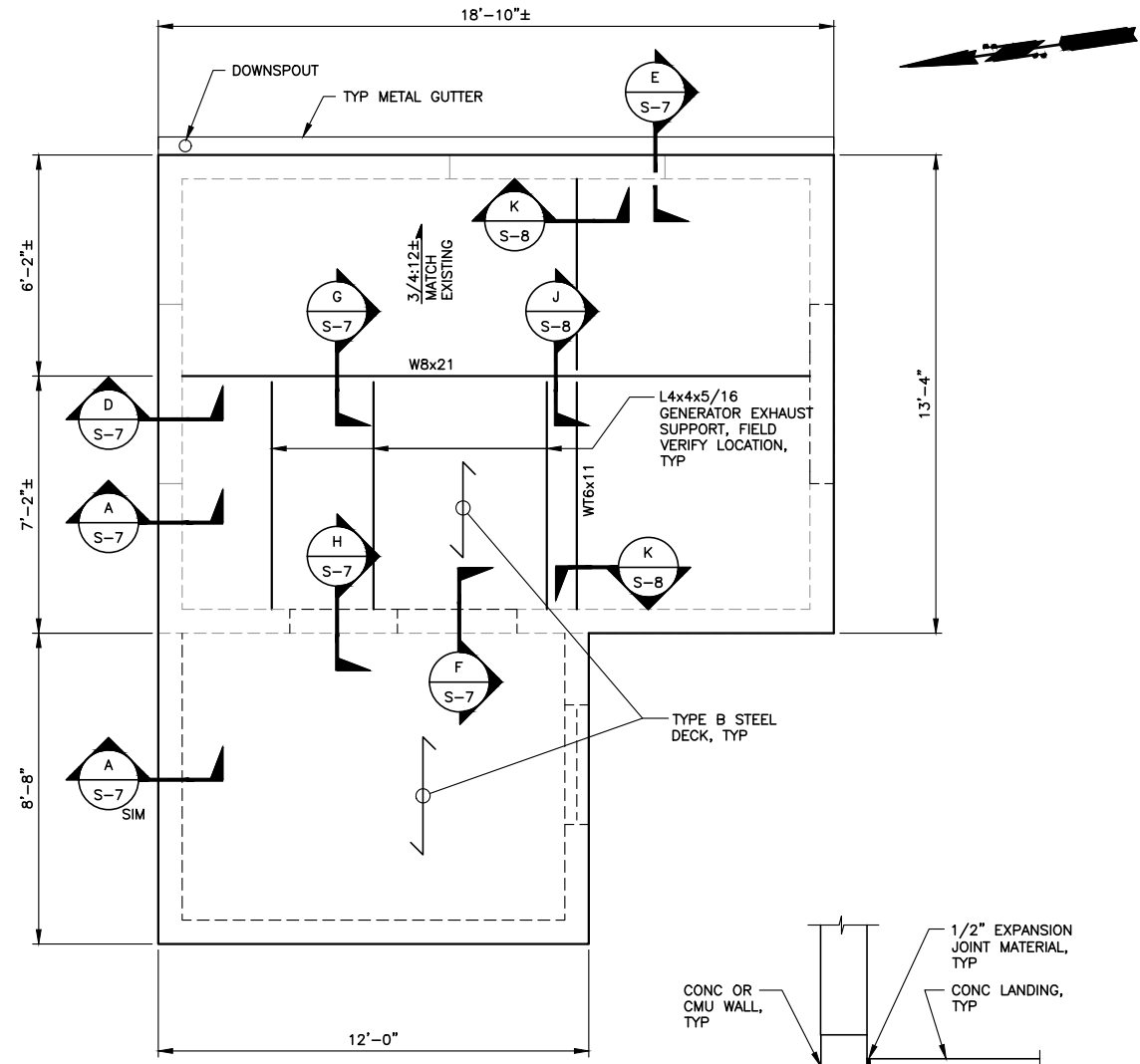
CITY OF PUYALLUP
WASHINGTON
PIERCE COUNTY
**NORTH LEEVE ROAD PUMP STATION
REPLACEMENT**
EXISTING GENERATOR BUILDING FLOOR
AND ROOF DEMOLITION PLANS

SHEET:	S-5
OF:	8
JOB NO.:	20503
DWG:	S_GEN_PLN

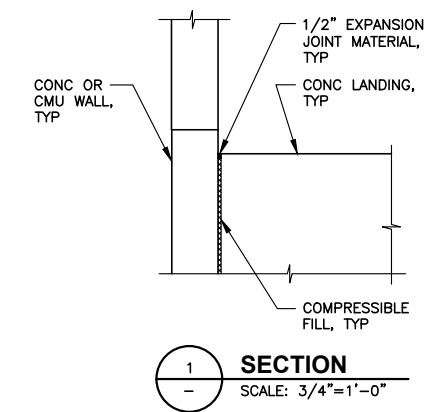
m:\PUYALLUP\20503 - north levee road pump station\02.planset\Structural\S_GEN_PLN.dwg, 3/30/2021 9:35 AM, RUSSELL HORITA



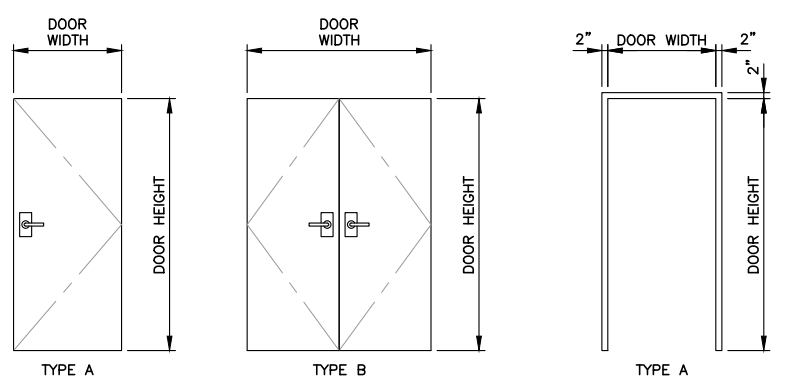
GENERATOR BUILDING FLOOR EXPANSION PLAN
SCALE: 3/8"=1'-0"



GENERATOR BUILDING ROOF EXPANSION PLAN
SCALE: 3/8"=1'-0"



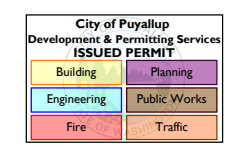
- NOTES:**
- SEE SHEETS S-1 THROUGH S-4 FOR GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS.
 - DIMENSIONS SHOWN ON STRUCTURAL PLANS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY.
 - EXISTING CONDITIONS AND DIMENSIONS ARE BASED ON BEST AVAILABLE INFORMATION. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING DIMENSIONS PRIOR TO THE START OF CONSTRUCTION.



DOOR TYPE
SCALE: NTS

DOOR FRAME TYPE
SCALE: NTS

DOOR SCHEDULE						
NO.	MATERIAL & TYPE	DOOR SIZE: WIDTH x HEIGHT x THICKNESS	DOOR TYPE	FRAME TYPE	FINISH	HARDWARE GROUP
1	INSULATED HOLLOW METAL	5'-0" x 6'-6" x 1 3/4"	B	A	PAINT	1
2	INSULATED HOLLOW METAL	3'-0" x 7'-2" x 1 3/4"	A	A	PAINT	2
3	INSULATED HOLLOW METAL	3'-0" x 7'-2" x 1 3/4"	A	A	PAINT	2



APPROVED

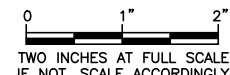
BY: _____
CITY ENGINEER
CITY OF PUYALLUP

APPROVED DATE: _____
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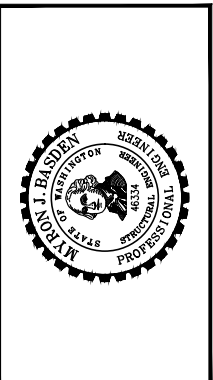
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DATE: MAR 2021
DRAWN: RAH
CHECKED: AQ
APPROVED: MJB

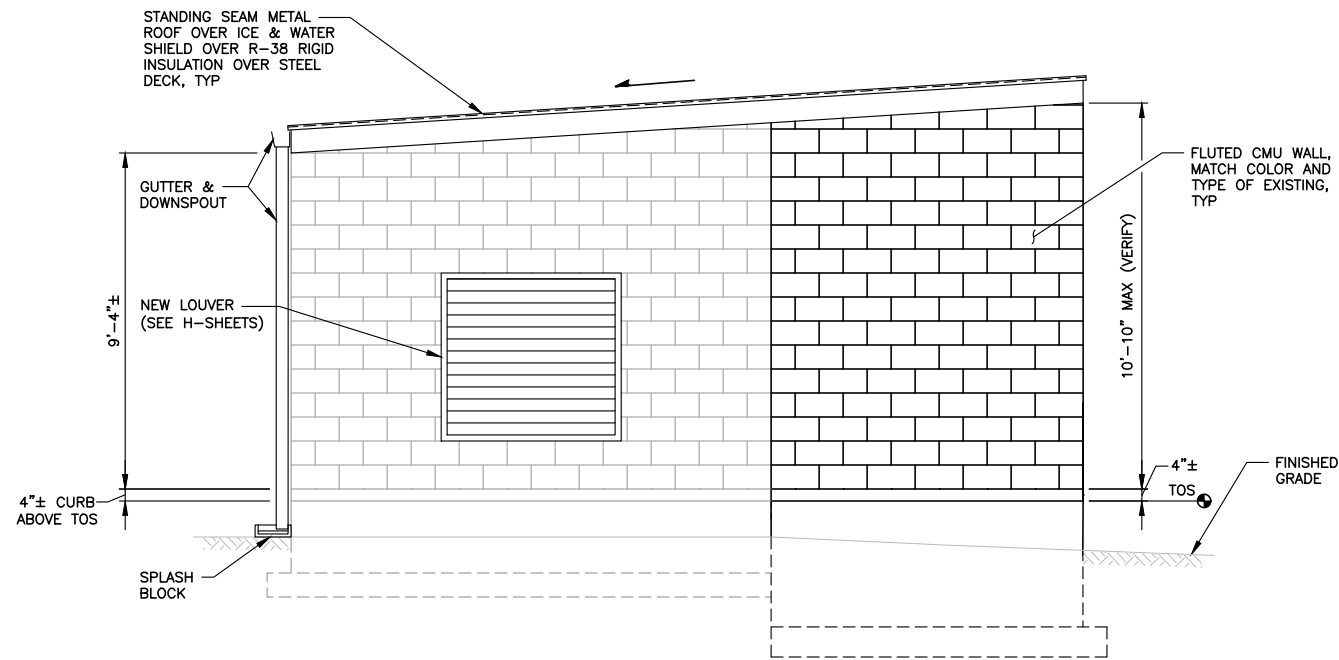
NO.	REVISION	DATE	APPD.



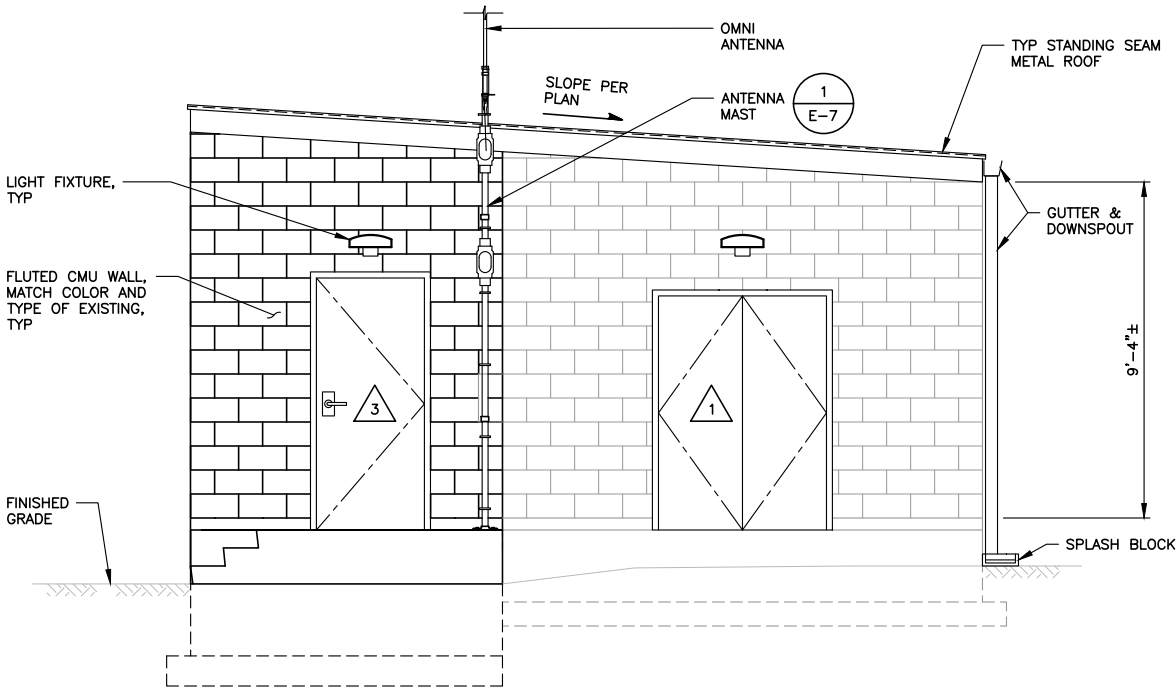
CITY OF PUYALLUP
PIERCE COUNTY WASHINGTON
NORTH LEVEE ROAD PUMP STATION REPLACEMENT
EXISTING GENERATOR BUILDING FLOOR AND ROOF EXPANSION PLANS

SHEET: **S-6**
OF: **8**
JOB NO.: 20503
DWG: S_GEN_PLN

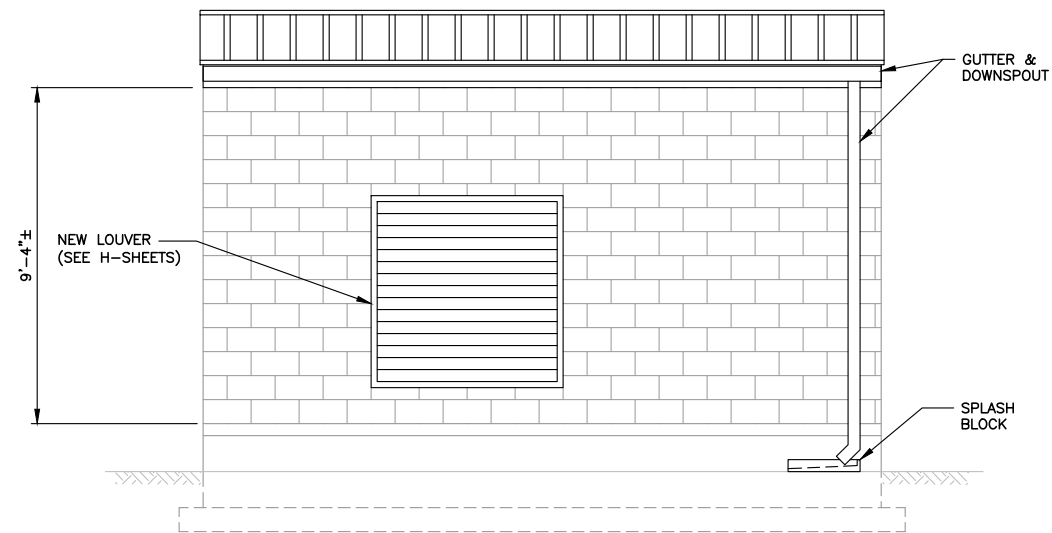
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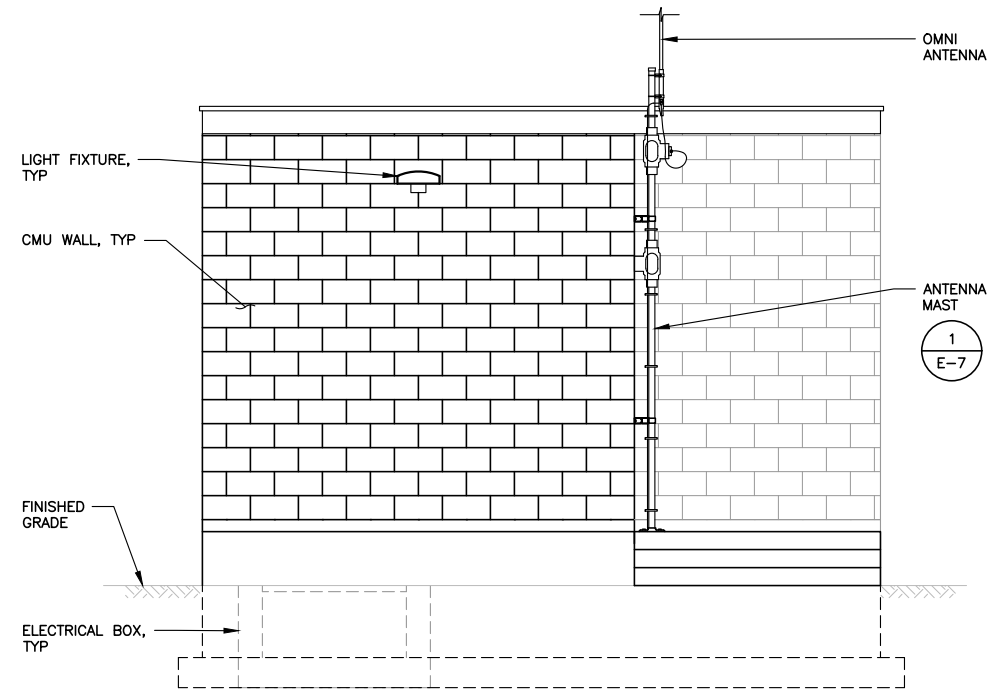
NORTH ELEVATION
SCALE: 3/8"=1'-0"



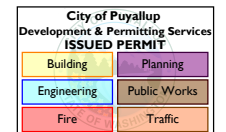
SOUTH ELEVATION
SCALE: 3/8"=1'-0"



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



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



APPROVED

BY: _____
CITY ENGINEER
CITY OF PUYALLUP

APPROVED DATE: _____

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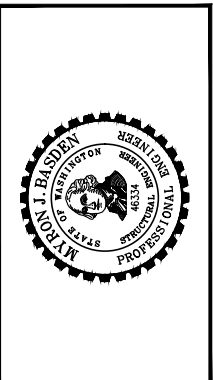
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0 1" 2"
TWO INCHES AT FULL SCALE.
IF NOT, SCALE ACCORDINGLY



DATE: MAR 2021	RAH	AG	MJB
DRAWN:	CHECKED:	APPROVED:	

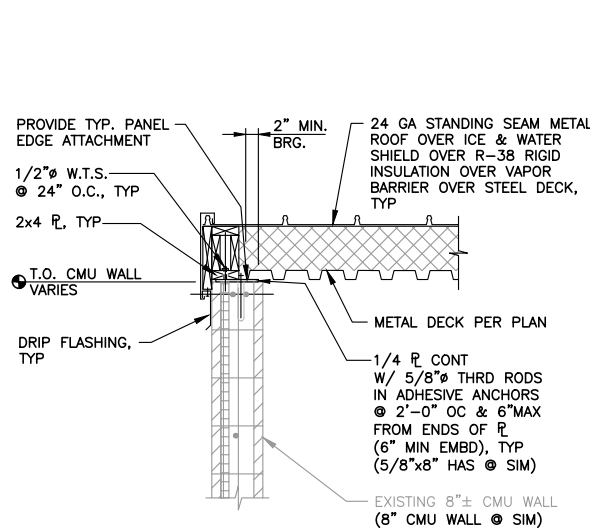
PERMIT SET	DATE	APPD
	REVISION	No.



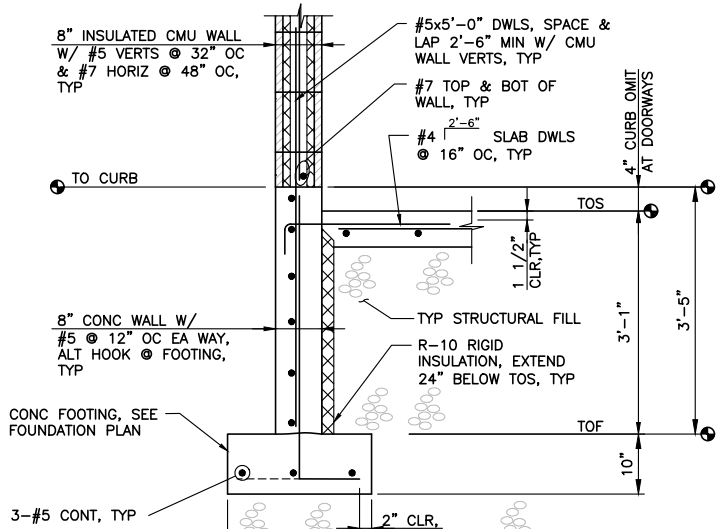
CITY OF PUYALLUP
PIERCE COUNTY WASHINGTON
NORTH LEVEE ROAD PUMP STATION REPLACEMENT
ELEVATIONS

SHEET: S-7
OF: 8
JOB NO.: 20503
DWG: S_GEN_PLN

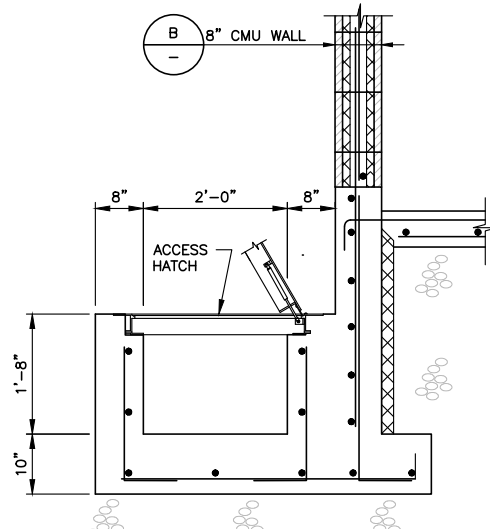
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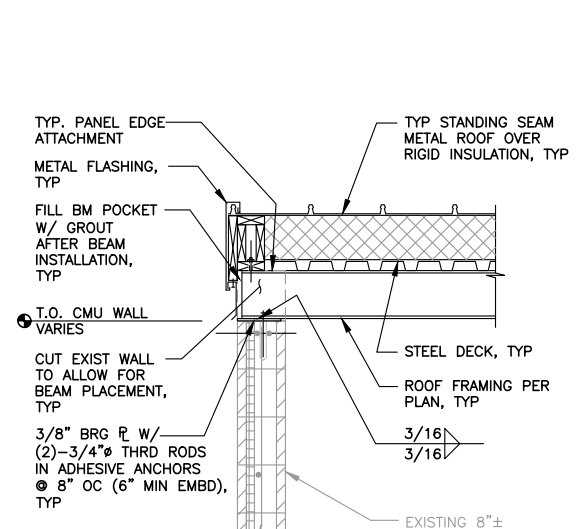
A SECTION
S-6 SCALE: 3/4"=1'-0"



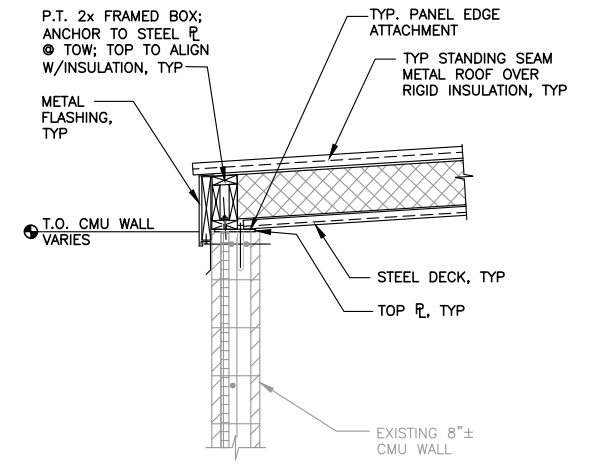
B SECTION
S-6 SCALE: 3/4"=1'-0"



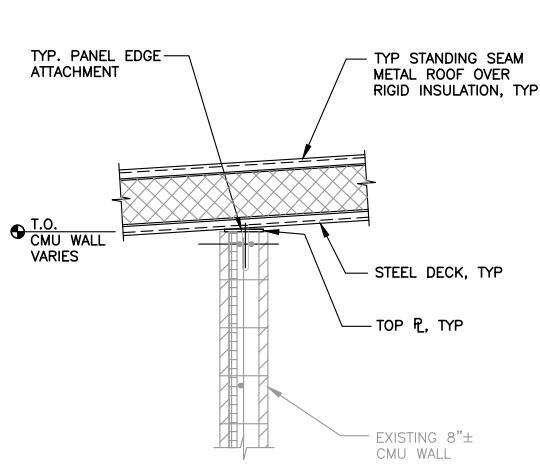
C SECTION
S-6 SCALE: 3/4"=1'-0"



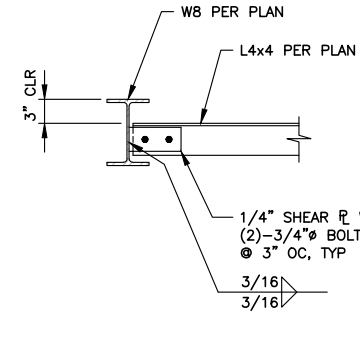
D SECTION
S-6 SCALE: 3/4"=1'-0"



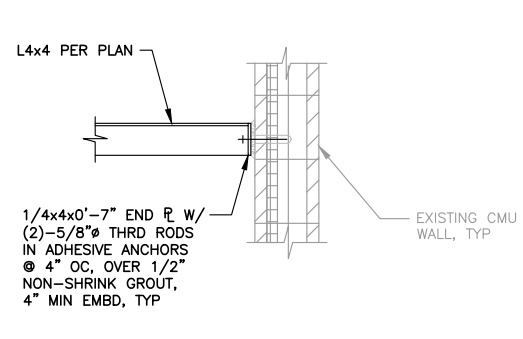
E SECTION
S-6 SCALE: 3/4"=1'-0"



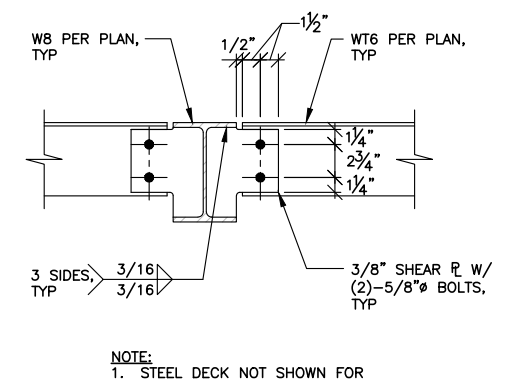
F SECTION
S-6 SCALE: 3/4"=1'-0"



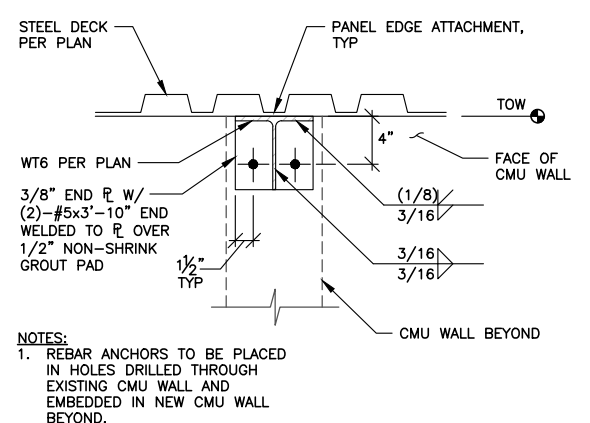
G SECTION
S-6 SCALE: 1"=1'-0"



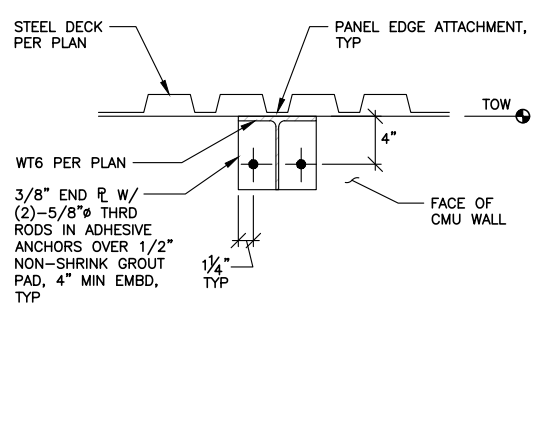
H SECTION
S-6 SCALE: 1"=1'-0"



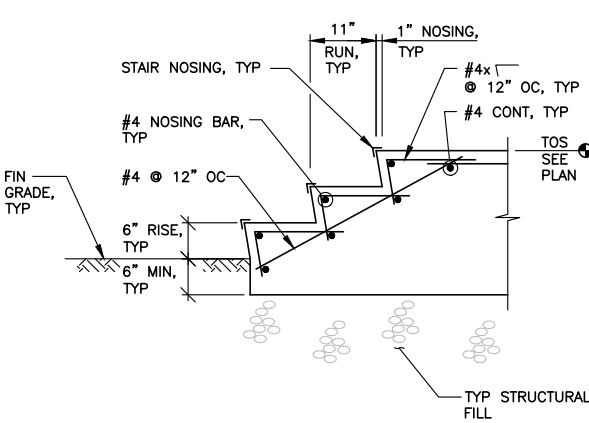
J SECTION
S-6 SCALE: 1 1/2"=1'-0"



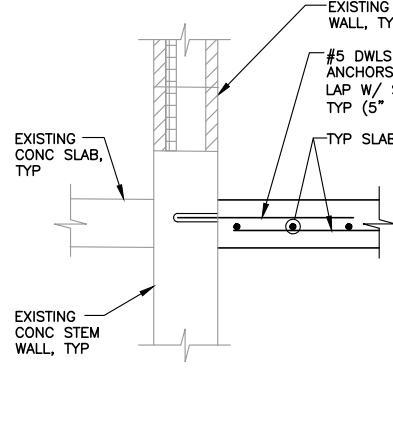
K SECTION
S-6 SCALE: 1 1/2"=1'-0"



L SECTION
S-6 SCALE: 1 1/2"=1'-0"

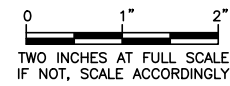


M SECTION
S-6 SCALE: 3/4"=1'-0"



N SECTION
S-6 SCALE: 1"=1'-0"

NOTES:
1. REBAR ANCHORS TO BE PLACED IN HOLES DRILLED THROUGH EXISTING CMU WALL AND EMBEDDED IN NEW CMU WALL BEYOND.
2. ALIGN METAL DECK FLUTE WITH FLANGE OF WT TO ALLOW FOR PANEL ATTACHMENT.



City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

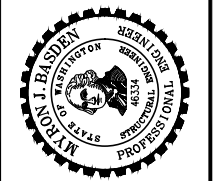
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DRAWN:			
CHECKED:			
APPROVED:			

PERMIT SET	DATE	APPD
	REVISION	
	No.	



CITY OF PUYALLUP
WASHINGTON
PIERCE COUNTY
NORTH LEVEE ROAD PUMP STATION REPLACEMENT
STRUCTURAL SECTIONS AND DETAILS

SHEET:	S-8
OF:	8
JOB NO.:	20503
DWG:	S_GEN_PLN

ELECTRICAL PLAN DRAWINGS SYMBOL SCHEDULE	
SYMBOL	DESCRIPTION
POWER DISTRIBUTION AND CONTROL	
	DISTRIBUTION/CONTROL EQUIPMENT - FLOOR MOUNTED
	DISTRIBUTION/CONTROL EQUIPMENT - WALL MOUNTED
	PANELBOARD - WALL MOUNTED
	SWITCH (SAFETY OR DISCONNECT)
	SWITCH (FUSIBLE)
DESIGNATIONS	
LIGHTING FIXTURES	
	LIGHTING FIXTURE POLE ARM MOUNTED
	LIGHTING FIXTURE POLE TOP MOUNTED
	FIXTURE WALL MOUNTED (RECESSED, SURFACE OR ARM)
	LED LINEAR FIXTURE CEILING MOUNTED (RECESSED, SURFACE OR PENDANT)
DESIGNATIONS	
A,B,C, ETC. ARE FIXTURE TYPE. REFER TO LIGHTING FIXTURE SCHEDULE	
1,2,3, ETC. ARE CIRCUIT NUMBERS OF PANELBOARD TO WHICH FIXTURE IS TO BE CONNECTED. REFER TO CIRCUIT SCHEDULE	
a,b,c, ETC. ARE SWITCHING CONTROL REFERENCE	
SHADED LIGHT FIXTURES ARE TO BE PROVIDED WITH INTEGRAL EMERGENCY BATTERY BACKED BALLASTS/POWER (1100 LUMEN UNLESS OTHERWISE NOTED)	
SWITCHING	
	SINGLE POLE SWITCH - WALL MOUNTED
DESIGNATIONS	
E	EXISTING SWITCH
M	MOTOR RATED SWITCH
3	THREE WAY SWITCH
P	SWITCH W/ PILOT LIGHT
4	FOUR WAY SWITCH
T	TIME SWITCH
K	KEY OPERATED SWITCH
o	LOWER CASE = SWITCH LEG
ANY COMBINATION OF THE ABOVE DESIGNATIONS MAY BE SHOWN ON PLANS	
RECEPTACLE OUTLETS	
	DUPLEX RECEPTACLE OUTLET - WALL MOUNTED (NEMA 5-15R UNLESS OTHERWISE SPECIFIED)
	QUADRUPEX RECEPTACLE OUTLET - WALL MOUNTED
	SPECIAL PURPOSE RECEPTACLE OUTLET
	SPECIAL PURPOSE RECEPTACLE OUTLET - WALL MOUNTED
DESIGNATIONS	
1,2,3, ETC. ARE CIRCUIT NUMBERS OF PANELBOARD TO WHICH OUTLET IS TO BE CONNECTED. REFER TO CIRCUIT SCHEDULE	
H = HORIZONTAL	
WP = WEATHERPROOF	
GFCI = GROUND FAULT CIRCUIT INTERRUPTER	
SPECIAL PURPOSE CONNECTIONS	
	SPECIAL PURPOSE EQUIPMENT CONNECTION
	SPECIAL PURPOSE EQUIPMENT CONNECTION - WALL MOUNTED
OTHER ELECTRICAL DEVICES	
	SOLENOID VALVE
	PHOTO ELECTRIC SWITCH (PHOTOCELL) - WALL MOUNTED
MECHANICALLY ACTUATED SWITCHES	
	FLOAT SWITCH
	LEVEL TRANSDUCER
	PRESSURE SWITCH
	FLOW (VELOCITY) SWITCH
	TEMPERATURE ACTUATED SWITCH (THERMOSTAT) - WALL MOUNTED
	TEMPERATURE ACTUATED SWITCH (THERMOSTAT)
	LIMIT SWITCH
GENERAL WIRING SYMBOLS	
	JUNCTION BOX
	JUNCTION BOX - WALL MOUNTED
	WIRING RUN EXPOSED ON BUILDING OR STRUCTURE UNLESS OTHERWISE NOTED ON DRAWINGS
	WIRING RUN CONCEALED IN OR UNDER SLAB OR BELOW GRADE UNLESS OTHERWISE NOTED ON DRAWINGS
	INDICATES WIRE SIZE IF OTHER THAN #12AWG
	LINE OR PHASE CONDUCTOR
	NEUTRAL CONDUCTOR
	GROUNDING CONDUCTOR
	ARROWHEAD INDICATES HOMERUN TO EQUIPMENT/DEVICE NOTED AT END OF ARROWHEAD, NUMBER (WHERE NOTED) INDICATES CIRCUIT WITHIN EQUIPMENT/DEVICE NOTED.
	CONDUIT TURN UP
	CONDUIT TURN DOWN

ELEMENTARY WIRING DIAGRAMS SYMBOL SCHEDULE	
SYMBOL	DESCRIPTION
	PANEL OR DEVICE WIRING
	FIELD WIRING
	EQUIPMENT/DEVICE ENCLOSURE
	WIRING CONNECTED
	WIRING NOT CONNECTED
	DEVICE OR EQUIPMENT TERMINAL
	CONTROL PANEL TERMINAL
	MCC TERMINAL
	TRANSFORMER WINDING
	FUSE
	TRANSFORMER WINDING
	ARC SUPPRESSOR (METAL OXIDE VARISTOR)
	DIODE
CONTACT/BLOCK OPERATORS	
	PUSHBUTTON (1PB, 2PB, ETC.)
	MUSHROOM HEAD PUSHBUTTON (1PB, 2PB, ETC.)
	SELECTOR SWITCH (1SS, 2SS, ETC.) "X" = CLOSED IN THIS POSITION
	OFF-ON SELECTOR SWITCH (1SS, 2SS, ETC.) "X" = CLOSED IN THIS POSITION
CONTACTS	
	SINGLE BREAK CONTACTS
	DOUBLE BREAK CONTACTS (CONTACT BLOCKS)
RELAY CONTACTS	
	INSTANTANEOUS CONTACT OF RELAY (1CR, 2CR, ETC.)
	TIMED DELAY CONTACT OF RELAY (DELAY ON ENERGIZATION-ON DELAY) (1TR, 2TR, ETC.)
	TIMED DELAY CONTACT OF RELAY (DELAY ON DE-ENERGIZATION-OFF DELAY) (1TR, 2TR, ETC.)
	OVERLOAD RELAY (1OL, 2OL, ETC.)
MECHANICALLY ACTUATED SWITCHES	
	FLOAT SWITCHES (1FS, 2FS, ETC.)
	LIMIT SWITCHES (1LS, 2LS, ETC.)
MAGNETIC COILS	
	CONTROL RELAY (1CR, 2CR, ETC.)
	TIMED DELAY RELAY (1CR, 2CR, ETC.)
	MAGNETIC MOTOR STARTER (1M, 2M, ETC.)
	MAGNETIC CONTACTOR (1CON, 2CON, ETC.)
	SOLENOID (1SV, 2SV, ETC.) (FOR VALVE UNLESS OTHERWISE NOTED)
PILOT LIGHTS	
	INCANDESCENT TRANSFORMER TYPE (1LT, 2LT, ETC.)
	INCANDESCENT "PUSH-TO-TEST" (CONNECT TEST CIRCUIT TO LINE) (1LT, 2LT, ETC.)
INDICATING INSTRUMENTS	
	AMMETER
	AMMETER RELAY
	HOUR METER (ELAPSED TIME METER)

ONE LINE DIAGRAMS SYMBOL SCHEDULE	
SYMBOL	DESCRIPTION
	DEVICE OR EQUIPMENT TERMINAL
	WIRING CONNECTED
	BUS
	WIRING
	EQUIPMENT/DEVICE ENCLOSURE
	PLUG-IN CONNECTION
	NON-AUTOMATIC BREAKER
	THERMAL MAGNETIC CIRCUIT BREAKER
	MAGNETIC ONLY CIRCUIT BREAKER (MOTOR CIRCUIT PROTECTOR)
	SWITCH
	CONTACTOR
	THERMAL OVERLOAD
	FUSE
	POWER TRANSFORMER
	CONTROL POWER TRANSFORMER
	CURRENT TRANSFORMER
	CAPACITOR
	GROUND CONNECTION
	TRANSFER SWITCH
	WATT HOUR METER (REVENUE METERING)
	GENERATOR
	NEUTRAL
	SOLID NEUTRAL
	MOTOR
	CONTROL STATION/PUSHBUTTON/ SPEED POTENTIOMETER
	LOAD BREAK FUSE HOLDER AND FUSE
	SAFETY DISCONNECT IN NEMA 4X ENCLOSURE UNLESS OTHERWISE NOTED
	AUXILIARY CONTACT NON-SWITCHED CONDUCTOR

GENERAL ELECTRICAL ACRONYMS AND ABBREVIATIONS	
A	AMPERE
AC	ALTERNATING CURRENT
AFC	AVAILABLE FAULT CURRENT
AI	ANALOG INPUT
AL	ALUMINUM
AO	ANALOG OUTPUT
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
C	CONDUIT
CB	CIRCUIT BREAKER
CP	CONTROL PANEL
CPT	CONTROL POWER TRANSFORMER
CT	CURRENT TRANSFORMER
CU	COPPER
DC	DIRECT CURRENT
DI	DISCRETE INPUT
DO	DISCRETE OUTPUT
DVF	VFD OUTPUT DV/DT FILTER
EMT	ELECTRICAL METALLIC TUBING
ENT	ELECTRICAL NONMETALLIC TUBING
EWD	ELEMENTARY WIRING DIAGRAM
FMC	FLEXIBLE METAL CONDUIT
FU	FUSE
FVNR	FULL VOLTAGE NON REVERSING
FVR	FULL VOLTAGE REVERSING
G	GROUNDING CONDUCTOR
GFP	GROUND FAULT PROTECTOR
GND	GROUND
HP	HORSEPOWER
IC	INTERRUPTING CAPACITY
KA	KILO AMPERES
KAIC	KILO AMPERES INTERRUPTING CAPACITY
KCMIL	THOUSAND CIRCULAR MILLS
KV	KILOVOLT
KVA	KILOVOLT-AMPERE
KVAR	KILOVAR (REACTIVE KILOVOLT AMPERE)
KW	KILOWATT
KWH	KILOWATT-HOUR
LFMC	LIQUIDTIGHT FLEXIBLE METAL CONDUIT
LPU	LINE PROTECTION UNIT
LNR	LINE REACTOR
M	MAGNETIC CONTACTOR
MA	MEGAAMPERES
MCP	MOTOR CURRENT PROTECTOR - MAGNETIC ONLY CIRCUIT BREAKER
MEG	MEGOHM
MLO	MAIN LUGS ONLY
mV	MILLIVOLT
MW	MEGAWATT
N	NEUTRAL CONDUCTOR
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NESCA	NATIONAL ELECTRICAL SAFETY CODE
OC	OVERCURRENT PROTECTOR
ODP	OPEN DRIP PROOF
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OL	OVERLOAD
P	POLE
PF	POWER FACTOR
PH	PHASE
PRMC	PVC COATED RIGID METALLIC (STEEL) CONDUIT
PS	POWER SUPPLY
PSE	PUGET SOUND ENERGY
PVC	POLYVINYL CHLORIDE
RMC	RIGID METAL (STEEL) CONDUIT
RNC	RIGID NON-METALLIC CONDUIT
RPM	REVOLUTIONS PER MINUTE
RTRC	REINFORCED THERMOSETTING RESIN CONDUIT
SEC	SECOND
SHLD	SHIELDED
SPD	SURGE PROTECTIVE DEVICE
STP	SHIELDED TWISTED PAIR
SUSE	SUITABLE FOR USE AS SERVICE ENTRANCE
TB	TERMINAL BLOCK
TEFC	TOTALLY ENCLOSED FAN COOLED
TENV	TOTALLY ENCLOSED NON-VENTILATED
V	VOLT
VA	VOLT AMPERE
VR	VOLTAGE MONITORING RELAY
W	WATT
WH	WATT HOUR
WP	WEATHER PROOF

Gray & Osborne, Inc.
CONSULTING ENGINEERS
1130 RAINIER AVENUE SOUTH, SUITE 300
SEATTLE, WASHINGTON 98144 • (206) 284-0860

DATE: DEC 2020	DRAWN: TWG	CHECKED: JRM	APPROVED: MLO
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PRELIMINARY NOT FOR CONSTRUCTION	DATE	APPD
	REVISION	No.

CITY OF PUYALLUP WASHINGTON PIERCE COUNTY NORTH LEEVE ROAD PUMP STATION REPLACEMENT ELECTRICAL SYMBOL SCHEDULES

APPROVED

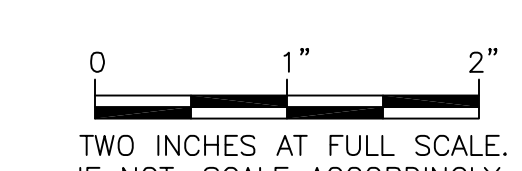
BY: _____
CITY ENGINEER
CITY OF PUYALLUP

APPROVED DATE: _____
EXPIRATION DATE: _____

NOTE: This approval expires on the date shown. If construction has not started by expiration date, plans must be resubmitted for review and approval.

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Field conditions may dictate changes to these plans as determined by the City Engineer.

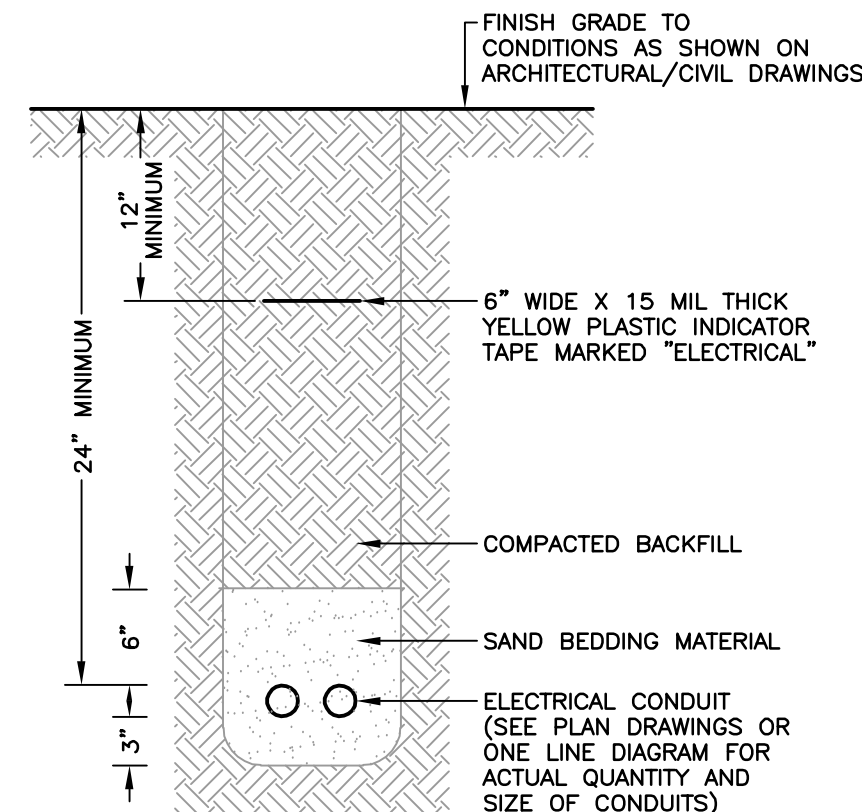


SHEET: E-1
OF: 9
JOB NO.: 20503
DWG: C-E00-01

ELECTRICAL GENERAL NOTES

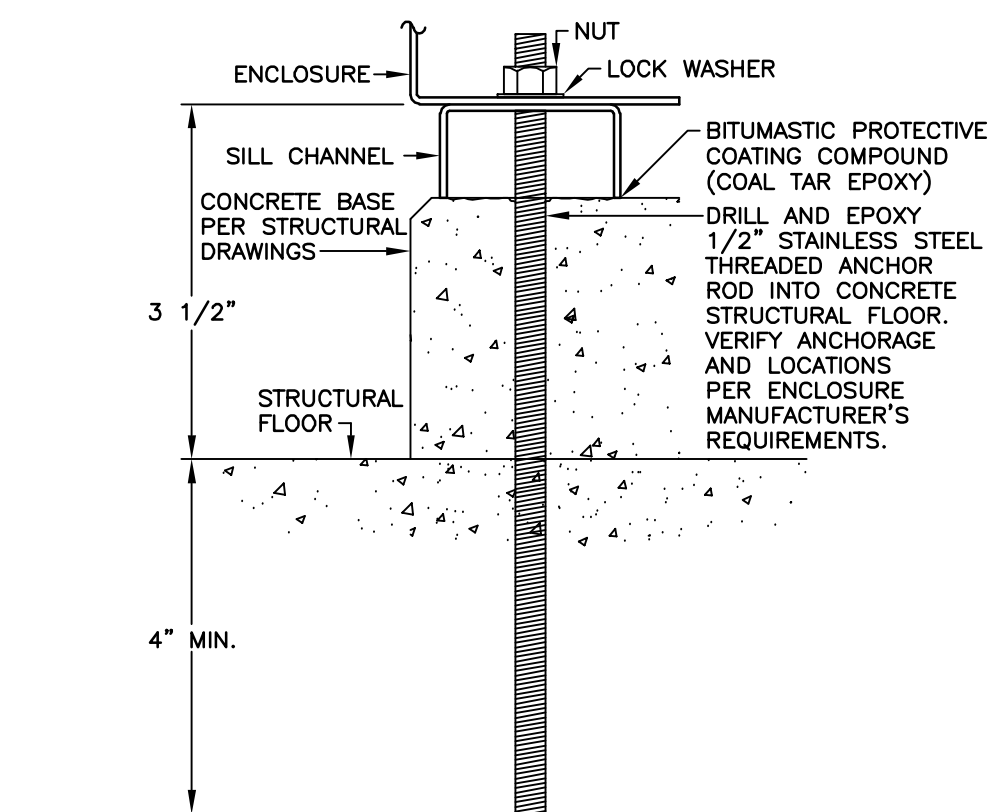
- G01 IN GENERAL, DEVICES SHOWN ON THE ELECTRICAL DRAWINGS IN BACKGROUND (GRAY OR SCREENED) REPRESENT ONE OF THE FOLLOWING UNLESS NOTED OTHERWISE ON AN INDIVIDUAL SHEET:
- STRUCTURAL OR ARCHITECTURAL BUILDING STRUCTURES SUCH AS WALLS, DOORS, STAIRS, ETC. AND STRUCTURAL FRAMING MEMBERS.
 - MECHANICAL EQUIPMENT OR DEVICES SUCH AS HVAC UNITS AND PROCESS EQUIPMENT WHICH ARE SHOWN ON THE MECHANICAL DRAWINGS AND ARE SHOWN IN BACKGROUND (GRAY OR SCREENED) ON THE ELECTRICAL DRAWINGS TO ASSIST IN DETERMINING THE LOCATION OF THE EQUIPMENT, CONNECTIONS AND DEVICES.
 - DISTRIBUTION EQUIPMENT SHOWN ON ELECTRICAL PLAN DRAWINGS (SUCH AS LIGHTING PLANS) IS SHOWN IN BACKGROUND (GRAY OR SCREENED) IN ORDER TO CLARIFY OTHER ELECTRICAL DEVICES AND CIRCUITS SHOWN ON THAT SHEET.
 - EQUIPMENT OR DEVICES THAT ARE EXISTING TO REMAIN (AND TO BE PRESERVED AND PROTECTED) WHERE SHOWN ON REVISED/MODIFICATIONS ELECTRICAL SHEETS.
- G02 THE EXISTING FUNCTION OF THE LIFT STATION TO PUMP SEWAGE ARE TO REMAIN IN OPERATION AT ALL TIMES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE THE WORK OF THE CONSTRUCTION PROCESS AND, TO ENSURE THAT ALL PUMPING FUNCTIONS REMAIN IN OPERATION DURING THE COURSE OF CONSTRUCTION, INCLUDING PROVIDING BYPASS PUMPING OR OTHER MEANS. FOR ITEMS THAT ARE SHOWN TO BE DEMOLISHED, THEY SHALL REMAIN IN OPERATION UNTIL NO LONGER REQUIRED FOR THE OPERATION OF THE LIFT STATION.
- G03 THE ELECTRICAL EQUIPMENT, MATERIALS, DEVICES AND CIRCUITS SHOWN ON THESE DRAWINGS ARE EXISTING TO REMAIN UNLESS OTHERWISE NOTED AS BEING DEMOLISHED OR MODIFIED. THE CONTRACTOR SHALL COORDINATE NEW CONDUIT AND CIRCUIT ROUTING AND ELEVATIONS WITH EXISTING EQUIPMENT, MATERIALS, DEVICES AND CIRCUITS PRIOR TO INSTALLATION. PROVIDE ALL MEANS NECESSARY TO PRESERVE, PROTECT AND KEEP EXISTING EQUIPMENT, MATERIALS, DEVICES AND ELECTRICAL CIRCUITS IN OPERATION DURING THE COURSE OF CONSTRUCTION INCLUDING PROVIDING TEMPORARY CIRCUITS TO ALLOW THEM TO REMAIN IN OPERATION AT ALL TIMES. THE INFORMATION SHOWN FOR EXISTING EQUIPMENT, MATERIALS AND UNDERGROUND OR CONCEALED ELECTRICAL CIRCUITS IS BASED ON AVAILABLE RECORD INFORMATION AND ON SITE SURVEY OF EXPOSED CIRCUITS, AND IS PROVIDED FOR INFORMATION ONLY. PRIOR TO COMMENCING NEW ELECTRICAL WORK OR TRENCHING, VERIFY LOCATIONS AND CONTENTS OF EXISTING EQUIPMENT, MATERIALS, DEVICES AND EXPOSED, CONCEALED OR UNDERGROUND CIRCUITS IN FIELD (BY TONING, X-RAY, EXCAVATION POTHOLING OR OTHER MEANS).
- G04 THE DRAWINGS ARE NOT INTENDED TO SHOW ALL OF THE EXISTING CONDITIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VISIT THE SITE AND REVIEW EXISTING CONDITIONS PRIOR TO BIDDING. WHERE EXISTING CONDITIONS DIFFER FROM THOSE SHOWN TO THE EXTENT IT WILL IMPACT THE COST OF THE CONTRACTOR'S WORK, THE CONTRACTOR SHALL NOTIFY THE OWNER IN WRITING A MINIMUM OF 10 DAYS PRIOR TO BIDDING.
- G05 THERE ARE EXISTING AND NEW PROCESS PIPING AND EQUIPMENT INSTALLED/TO BE INSTALLED ON THIS SITE. THE CONTRACTOR SHALL COORDINATE NEW CONDUIT AND CIRCUIT ROUTING AND ELEVATIONS WITH EXISTING EQUIPMENT, PIPING, AND OTHER CONSTRUCTION ACTIVITIES PRIOR TO INSTALLATION. LOCATE EXISTING UNDERGROUND FACILITIES, PRESERVE AND PROTECT THEM DURING CONSTRUCTION AND ROUTE NEW CONDUITS TO AVOID CONFLICTS BY INSTALLING AT DIFFERENT LEVELS OR WHEN APPROVED BY THE ENGINEER, DIFFERENT ROUTING.
- G06 EXISTING EQUIPMENT, MATERIALS, DEVICES AND CIRCUITS DAMAGED DURING THE COURSE OF CONSTRUCTION SHALL BE IMMEDIATELY REPLACED WITH NEW EQUIPMENT, MATERIALS, DEVICES AND CIRCUITS OF LIKE MATERIALS AT NO ADDITIONAL COST TO THE OWNER.
- G07 DEMOLISH EXISTING EQUIPMENT, MATERIALS AND DEVICES SHOWN CROSS HATCHED AND AS INDICATED UNLESS OTHERWISE NOTED. REMOVE CONDUIT (EXCEPT CONCEALED OR UNDERGROUND CONDUIT AS NOTED BELOW), FITTINGS, HANGERS, CONDUCTORS, DEVICE/JUNCTION BOXES, AND SIMILAR ITEMS ASSOCIATED WITH ITEM NOTED, BACK TO NEXT DEVICE REMAINING ON THE CIRCUIT OR BACK TO THE PANEL/MCC UNIT FROM WHICH THE CIRCUIT ORIGINATES. WHERE DEVICE BEING REMOVED IS IN THE MIDDLE OF A CIRCUIT, REPLACE/REPAIR CIRCUIT AS REQUIRED TO KEEP REMAINING DEVICES ON CIRCUIT IN OPERATION. ABANDON-IN-PLACE UNUSED CONDUITS CONCEALED IN SLAB, OR UNDERGROUND BELOW SLAB OR BELOW GRADE. CUT EXPOSED PORTION FLUSH WITH SLAB, OR 12" BELOW GRADE, AND PLUG WITH NON-SHRINK GROUT. CUT, PATCH, REPAIR AND PAINT EXISTING WALLS/CEILINGS AS REQUIRED TO REMOVE EXISTING DEVICES/EQUIPMENT. LEGALLY DISPOSE OF MATERIAL/EQUIPMENT WHICH ARE REMOVED.
- G08 SALVAGE EQUIPMENT, MATERIALS AND DEVICES TO OWNER PER REQUIREMENTS OF DIVISION 1, SECTION 01900 UNLESS OTHERWISE NOTED ON DRAWINGS.
- G09 WIRING METHODS, MATERIALS AND EQUIPMENT IN THIS AREA SHALL BE IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE FOR CLASS I, DIVISION 1 HAZARDOUS (CLASSIFIED) LOCATIONS. REFER TO THE HAZARDOUS AREA CLASSIFICATIONS LETTER IN THE SPECIFICATIONS APPENDIX FOR FURTHER INFORMATION.
- G10 WIRING METHODS, MATERIALS AND EQUIPMENT IN THIS AREA SHALL BE IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE FOR CLASS I, DIVISION 2 HAZARDOUS (CLASSIFIED) LOCATIONS. REFER TO THE HAZARDOUS AREA CLASSIFICATIONS LETTER IN THE SPECIFICATIONS APPENDIX FOR FURTHER INFORMATION.
- G11 COORDINATE CONDUIT STUB UP LOCATIONS WITH APPROVED EQUIPMENT SHOP DRAWING SUBMITTALS PRIOR TO LOCATING CONDUIT STUB UPS IN THE SLAB. LOCATE CONDUIT STUB UPS PER EQUIPMENT MANUFACTURER'S RECOMMENDATIONS AND THE REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS.

LIGHTING FIXTURE SCHEDULE						
TYPE	DESCRIPTION	MANUFACTURER NAME	CATALOG NO.	LAMP		REMARKS
				QTY	VA	
B	LED, 4' LONG, SURFACE MOUNTED, WIDE BEAM, FUSED, ENCLOSED AND GASKETED, ONE PIECE HOUSING, MOLDED FIBERGLASS REINFORCED POLYESTER BODY, IMPACT RESISTANT POLYCARBONATE DIFFUSER, STAINLESS STEEL STAINLESS STEEL LATCHES, WET LABEL, 80 CRI, 5 YEAR WARRANTY	DAYBRITE	V2-W-P-E-43L-840-4-UNV-GLR-WHP-TBK	1	38	LED 4000K PROVIDE WITH TBK TOP BRACKET KIT
BB	LED, POLE MOUNTED OUTDOOR AREA LIGHT, RECTANGULAR, LOW PROFILE, DIE-CAST ALUMINUM HOUSING, TYPE IV DISTRIBUTION, DARK BRONZE POWDER COAT FINISH, FUSING, 120 VOLT, 5 YEAR WARRANTY	GARDCO	P21-A1-1-4-80LA-NW-120-BRP-F	1	78	LED 4000K
CC	LED, WALL MOUNTED OUTDOOR, DIE-CAST ALUMINUM HOUSING, CLEAR GLASS LENS, TYPE IV DISTRIBUTION, BRONZE FINISH, FUSING, 5 YEAR WARRANTY	GARDCO	111-16L-350-NW-G2-4-UNV-F1-BZ	1	18	LED 4000K
P1	SQUARE, ASTM A-500 GRADE B STEEL, 20 FOOT LENGTH, ELECTROSTATICALLY APPLIED DARK BRONZE POLYESTER POWDER FINISH, POLE GROUNDING LUG ASSEMBLY	UNITED LIGHTING STANDARDS OR EQUAL	RPSQ-20-4-7-DB-GFCI-IUC			



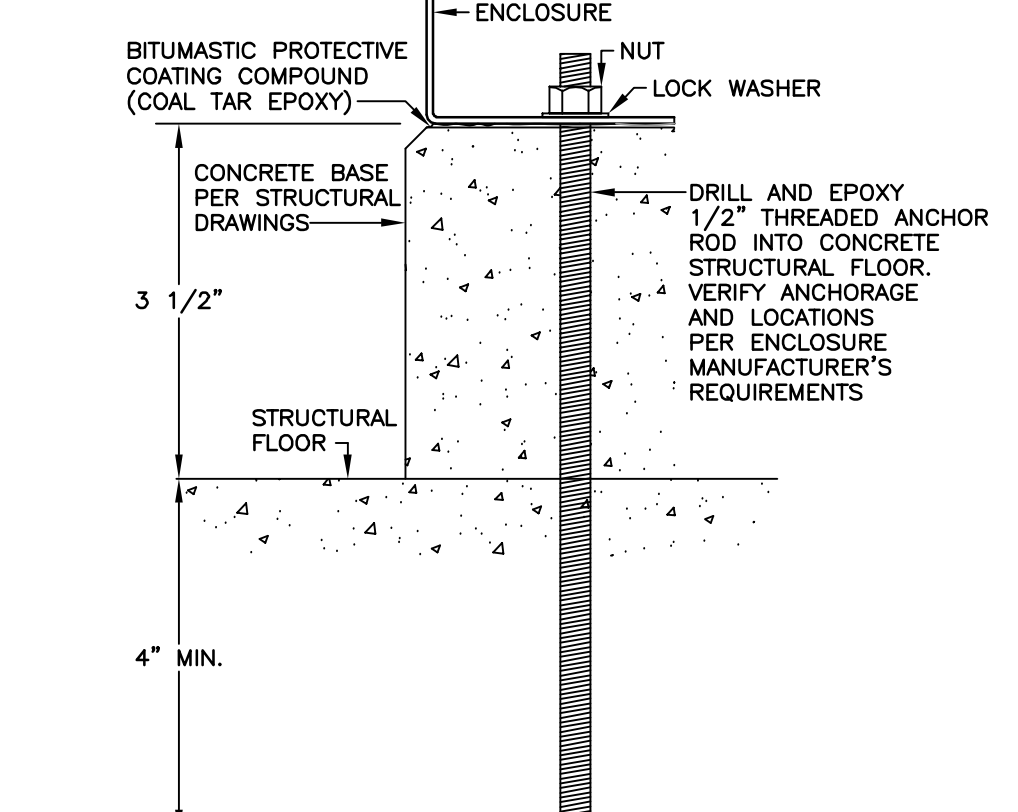
**DETAIL 1/E-2
TRENCH FOR ELECTRICAL CIRCUITS
SECONDARY POWER OR SIGNAL CIRCUITS**

SCALE: NONE
NOTE: CONDUITS ARE SHOWN DIAGRAMMATICALLY. SEE PLAN DRAWINGS FOR ACTUAL CONDUIT QUANTITIES, DEPTH, SIZES AND ARRANGEMENTS.



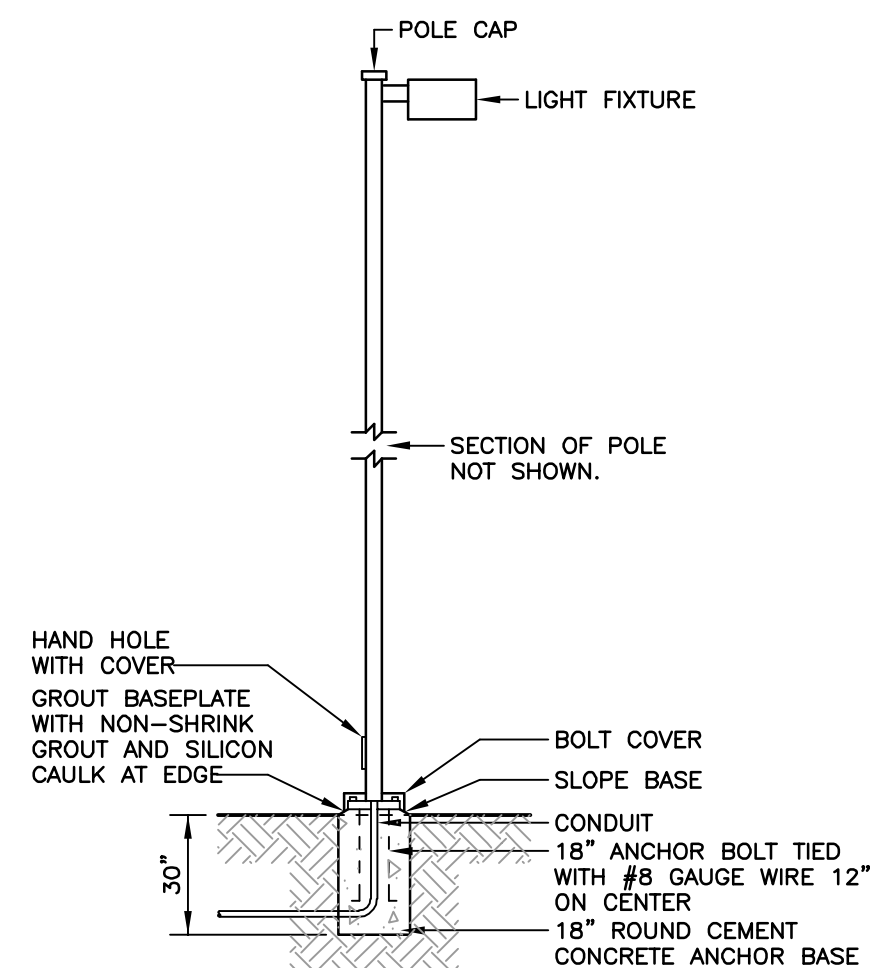
**DETAIL 2/E-2
FLOOR MOUNTED ENCLOSURE MOUNTING
WITH CHANNEL**

SCALE: NONE



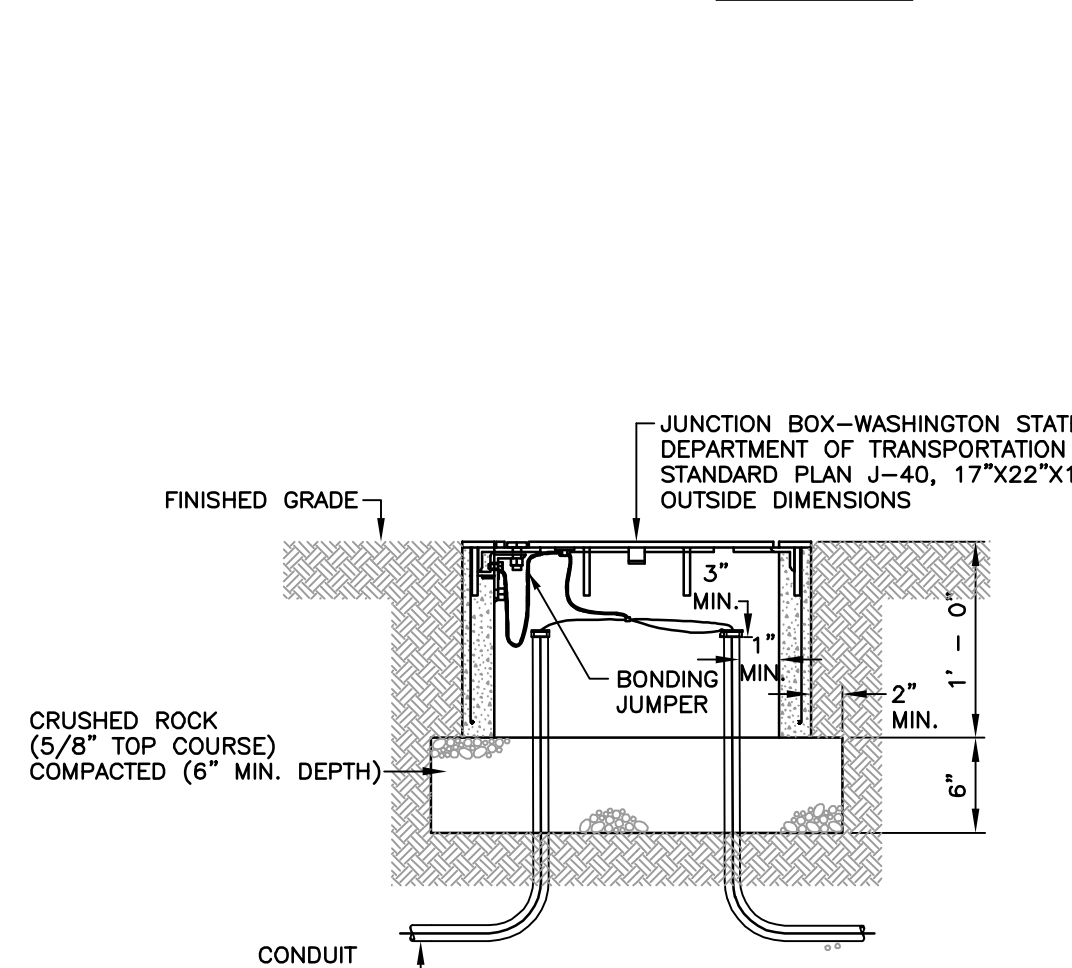
**DETAIL 3/E-2
FLOOR MOUNTED ENCLOSURE MOUNTING**

SCALE: NONE



**DETAIL 5/E-2
AREA LIGHT**

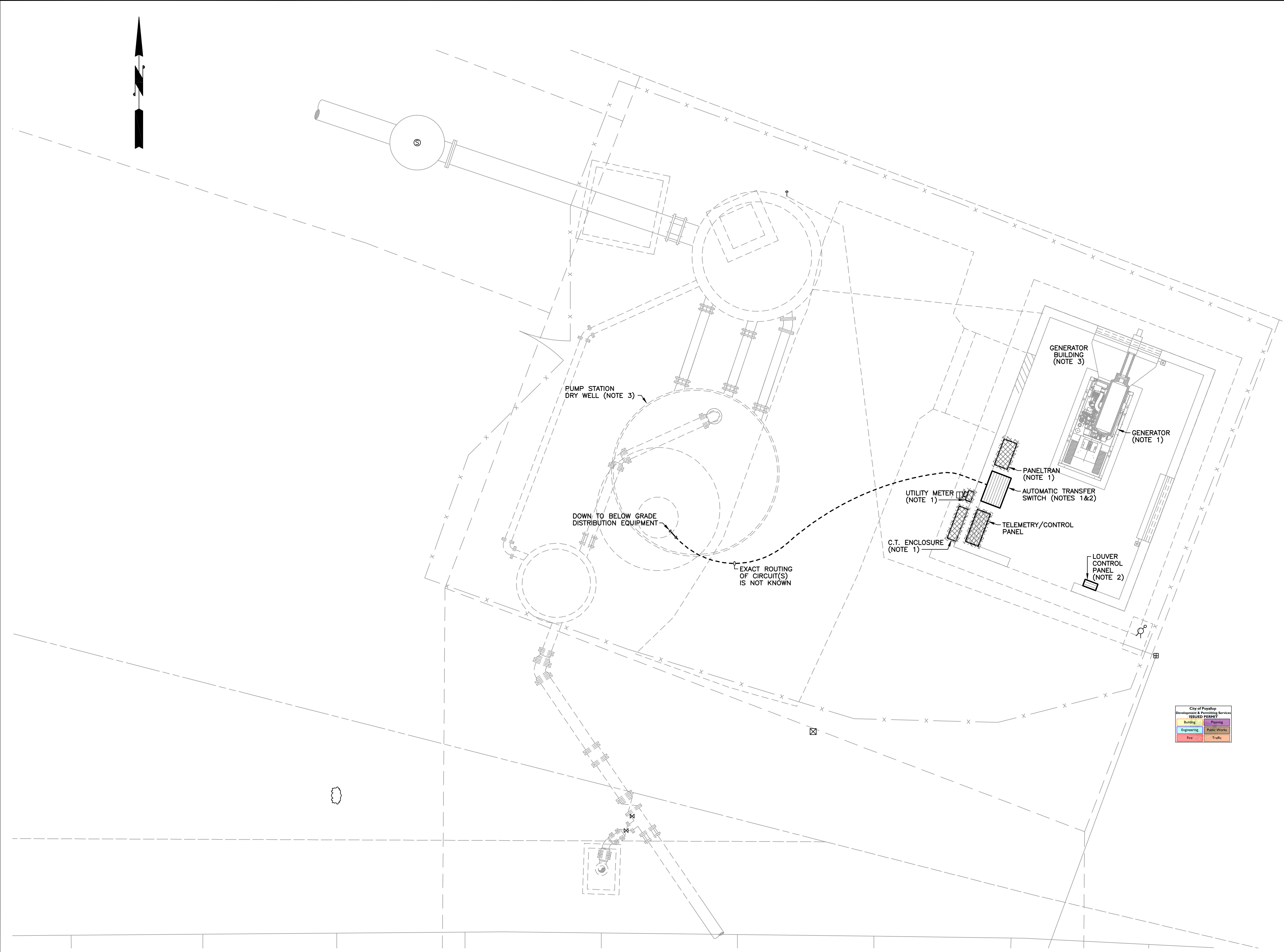
SCALE: NONE



**DETAIL 6/E-2
STANDARD LOCKING JUNCTION BOX**

SCALE: NONE
NOTE: CONDUITS ARE SHOWN DIAGRAMMATICALLY. SEE PLAN DRAWINGS FOR ACTUAL CONDUIT QUANTITIES, DEPTH, SIZES AND ARRANGEMENTS.

0 1" 2"
TWO INCHES AT FULL SCALE.
IF NOT, SCALE ACCORDINGLY



City of Puyallup Development & Permitting Services UTILITY PERMIT	
Building	Planning
Engineering	Public Works
Fire	Traffic

EXISTING/DEMOLITION ELECTRICAL SITE PLAN
NORTH LEVEE ROAD PUMP STATION
 SCALE: 1/4" = 1'-0"
 (GENERAL NOTES: G01, G02, G03, G04, G05, G06, G07, G08)
 (NOTE 3)

- NOTES:
- SEE SHEET E-2 FOR GENERAL NOTES FOR PLAN SHEETS (G01, G02, ETC.)
 - SEE EXISTING ONE LINE DIAGRAM SHEET E-5 FOR CIRCUIT AND EQUIPMENT INFORMATION. SEE DEMOLITION ONE LINE DIAGRAM SHEET E-5 FOR INFORMATION ON DEMOLITION OF EXISTING EQUIPMENT AND CIRCUITS.
 - PRESERVE AND PROTECT DEVICE FOR REUSE. SEE MODIFIED PLANS FOR FURTHER INFORMATION.
 - DEMOLISH ALL ELECTRICAL EQUIPMENT, DEVICES, CIRCUITS, BOXES, FITTINGS, HANGERS, AND SIMILAR ITEMS AFTER ALL EXISTING PUMPS ARE TAKEN OUT OF SERVICE. EXCEPT FOR EQUIPMENT NOTED FOR REUSE.

Gray & Osborne, Inc.
 CONSULTING ENGINEERS
 1130 RAINIER AVENUE SOUTH, SUITE 300
 SEATTLE, WASHINGTON 98144 • (206) 284-0860

DATE: DEC 2020	MLO
DRAWN: MLO	JRM
CHECKED: JRM	MLO
APPROVED: MLO	

PRELIMINARY NOT FOR CONSTRUCTION	DATE	APPD
	REVISION	
No.		

CITY OF PUYALLUP PIERCE COUNTY WASHINGTON
NORTH LEVEE ROAD PUMP STATION REPLACEMENT
EXISTING/DEMOLITION ELECTRICAL SITE PLAN NORTH LEVEE ROAD PUMP STATION

APPROVED

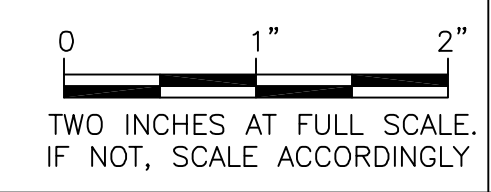
BY: _____
 CITY ENGINEER
 CITY OF PUYALLUP

APPROVED DATE: _____
 EXPIRATION DATE: _____

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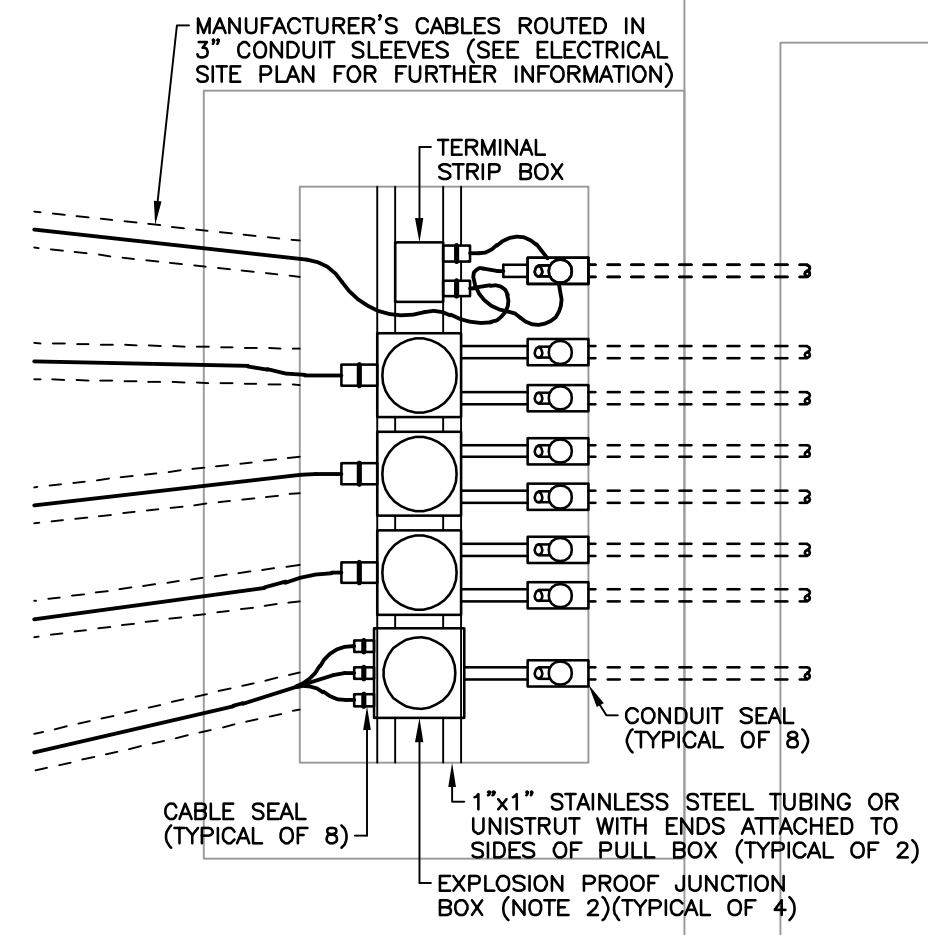
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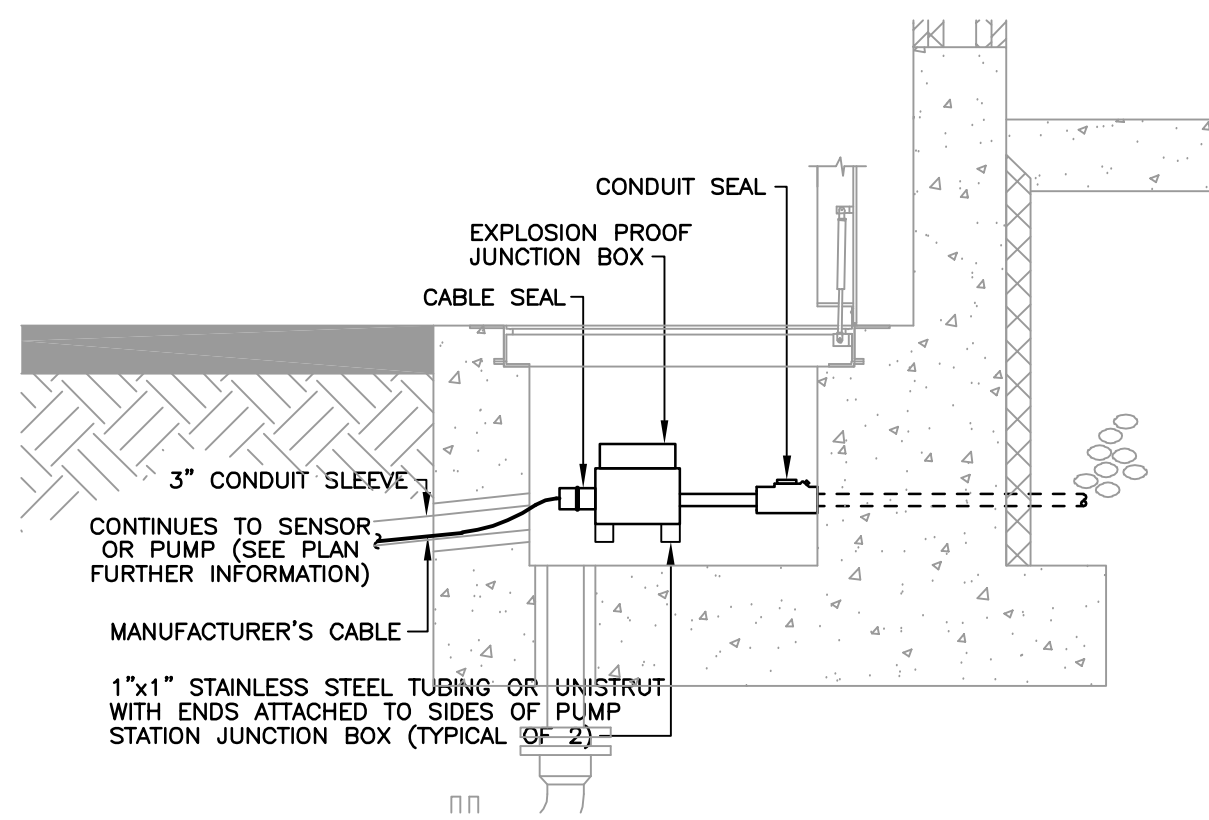
SHEET: E-3
OF: 9
JOB NO.:
DWG: C-E00-03

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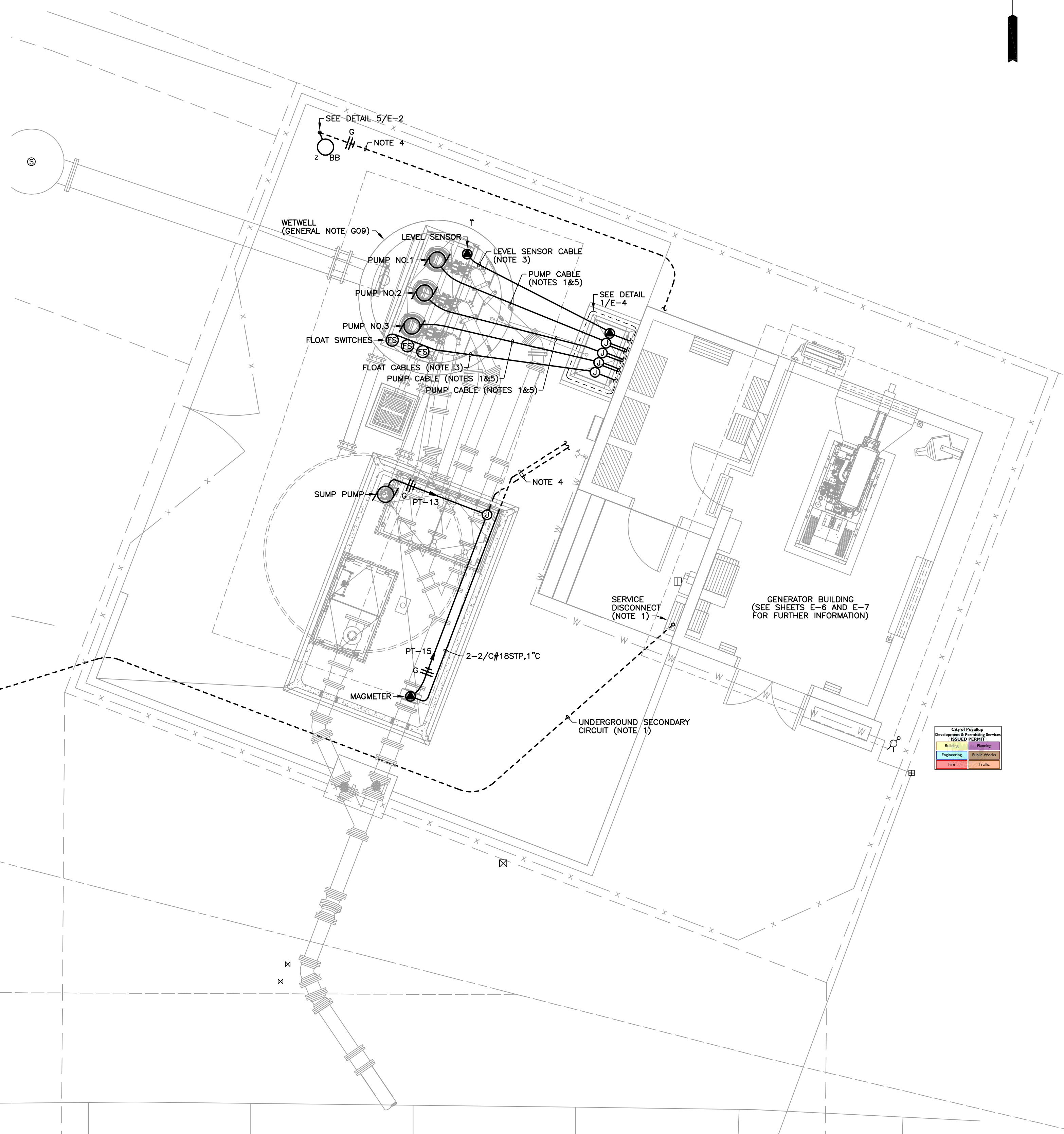


PLAN VIEW

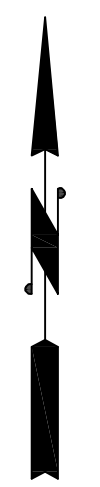


SIDE VIEW

DETAIL 1/E-4
PUMP STATION JUNCTION BOX
SCALE: 3/4" = 1'-0"



MODIFIED ELECTRICAL SITE PLAN
NORTH LEVEE ROAD PUMP STATION
SCALE: 1/4" = 1'-0"
(GENERAL NOTES: G01, G02, G04, G05, AND G06)



NOTES:

- SEE SHEET E-2 FOR GENERAL NOTES FOR PLAN SHEETS (G01, G02, ETC.)
- SEE ONE LINE DIAGRAM SHEET E-5 FOR CIRCUIT AND EQUIPMENT INFORMATION.
 - SPLICE CONDUCTORS SHOWN TO MANUFACTURER'S CABLE(S) IN JUNCTION BOX.
 - ROUTE MANUFACTURER'S CABLES IN 3" PVC SLEEVE ENCASED IN CONCRETE AS SHOWN ON SHEET M-6. SEE DETAILS 1 AND 2 ON SHEET M-3 FOR MOUNTING INFORMATION.
 - SEE DETAIL 1/E-2 FOR TRENCHING INFORMATION.
 - ROUTE PUMP CABLE IN 3" PVC SLEEVE ENCASED IN CONCRETE AS SHOWN ON SHEET M-6. SEE DETAILS 1 AND 2 ON SHEET M-3 FOR MOUNTING INFORMATION.

Gray & Osborne, Inc.
CONSULTING ENGINEERS
1130 RAINIER AVENUE SOUTH, SUITE 300
SEATTLE, WASHINGTON 98144 • (206) 284-0860

DATE: DEC 2020	MLO	JRM	MLO
DRAWN:	MLO	CHECKED:	JRM
APPROVED:	MLO		

PRELIMINARY NOT FOR CONSTRUCTION	DATE	APPD
	REVISION	
No.		

CITY OF PUYALLUP PIERCE COUNTY WASHINGTON	CITY ENGINEER CITY OF PUYALLUP
NORTH LEVEE ROAD PUMP STATION REPLACEMENT	MODIFIED ELECTRICAL SITE PLAN
NORTH LEVEE ROAD PUMP STATION	

SHEET:	E-4
OF:	9
JOB NO.:	
DWG: C-E00-04	

APPROVED

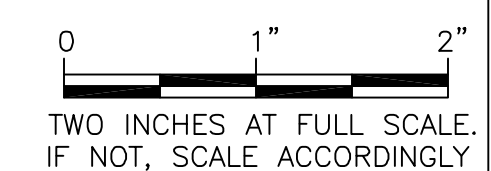
BY: _____
CITY ENGINEER
CITY OF PUYALLUP

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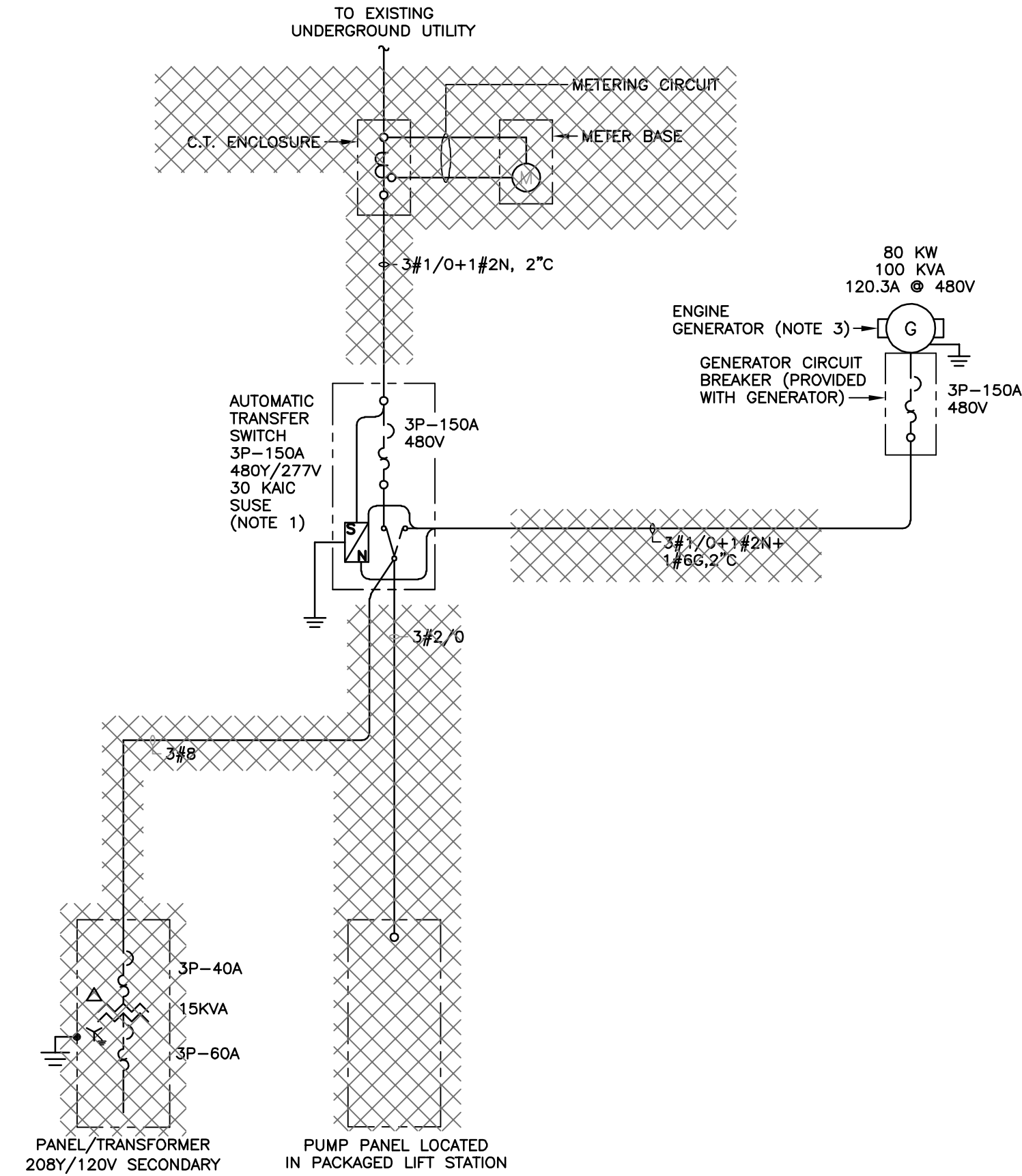
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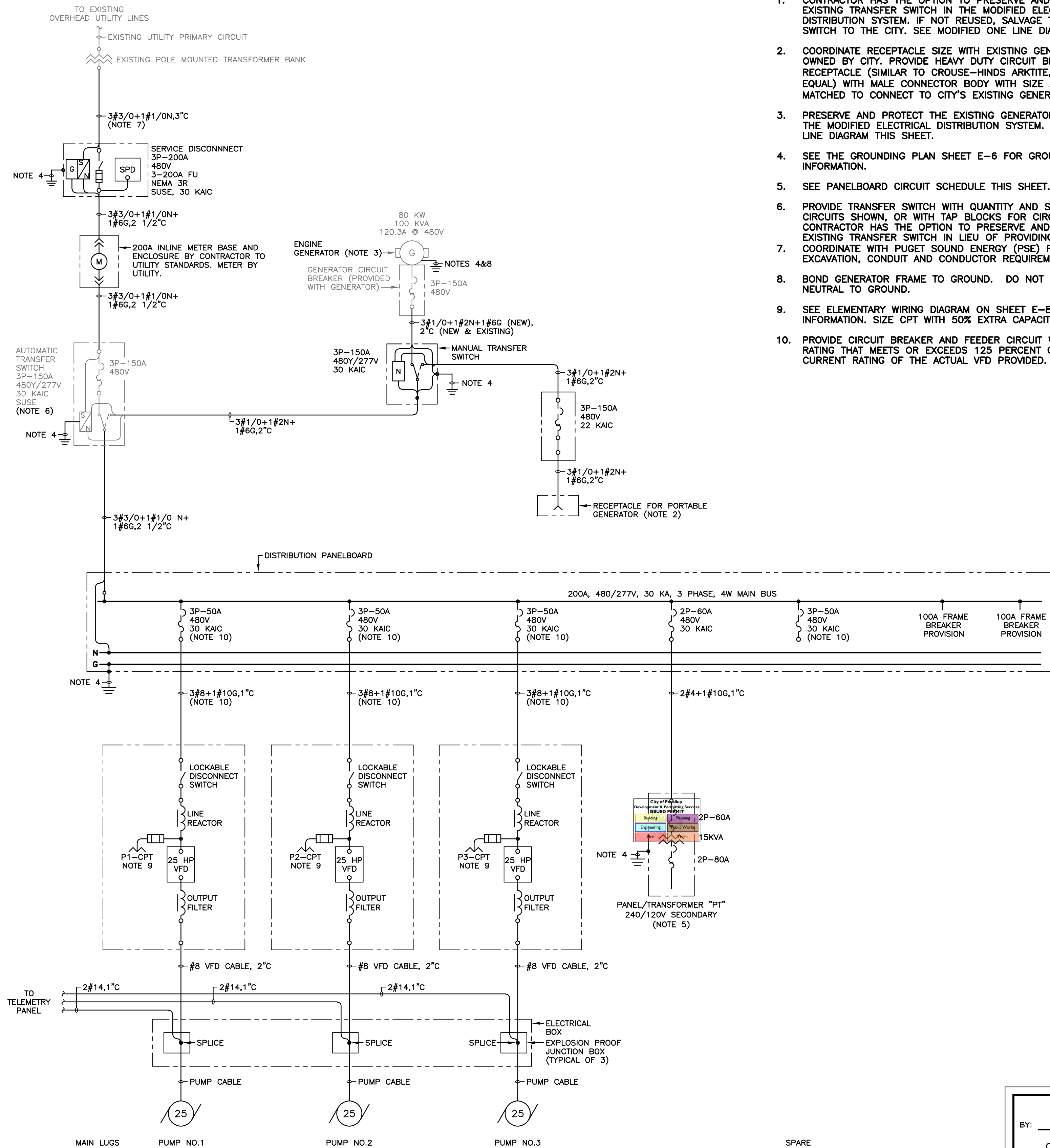
**PANELBOARD
CIRCUIT SCHEDULE
PANEL "PT"**

SECTION 1 OF 1

CKT. #	LOAD DESCRIPTION	BREAKER TYPE	POLE #	POLE #	BREAKER TYPE	LOAD DESCRIPTION	CKT. #
1	GENERATOR BLOCK HEATER	1P-20A	1	2	1P-20A	INTERIOR LIGHTING	2
3	GENERATOR BATTERY CHARGER	1P-20A	3	4	1P-20A	EXTERIOR AND SITE LIGHTING	4
5	TELEMETRY PANEL	1P-20A	5	6	1P-20A	HOT BOX RECEPTACLE	6
7	RECEPTACLES	1P-20A	7	8	1P-20A	LOUVER CONTROL PANEL	8
9	HVAC UNIT	2P-20A	9	10	1P-20A	EXHAUST FAN	10
			11	12	1P-20A	SPARE	12
13	SUMP PUMP	1P-20A	13	14	1P-20A	SPARE	14
15	FLOW METER	1P-20A	15	16	1P-20A	SPARE	16
17	SPARE	1P-20A	17	18	1P-20A	SPARE	18



**EXISTING ONE LINE DIAGRAM
NORTH LEVEE ROAD PUMPING STATION**
SCALE: NONE
(GENERAL NOTE P01)



**MODIFIED ONE LINE DIAGRAM
NORTH LEVEE ROAD PUMPING STATION**
SCALE: NONE

NOTES:

- CONTRACTOR HAS THE OPTION TO PRESERVE AND REUSE THE EXISTING TRANSFER SWITCH IN THE MODIFIED ELECTRICAL DISTRIBUTION SYSTEM. IF NOT REUSED, SALVAGE THE TRANSFER SWITCH TO THE CITY. SEE MODIFIED ONE LINE DIAGRAM THIS SHEET.
- COORDINATE RECEPTACLE SIZE WITH EXISTING GENERATOR EQUIPMENT OWNED BY CITY. PROVIDE HEAVY DUTY CIRCUIT BREAKING RECEPTACLE (SIMILAR TO CROUSE-HINDS ARKITE, APPLETON OR EQUAL) WITH MALE CONNECTOR BODY WITH SIZE AND MANUFACTURER MATCHED TO CONNECT TO CITY'S EXISTING GENERATOR PLUG.
- PRESERVE AND PROTECT THE EXISTING GENERATOR FOR REUSE WITH THE MODIFIED ELECTRICAL DISTRIBUTION SYSTEM. SEE MODIFIED ONE LINE DIAGRAM THIS SHEET.
- SEE THE GROUNDING PLAN SHEET E-6 FOR GROUNDING INFORMATION.
- SEE PANELBOARD CIRCUIT SCHEDULE THIS SHEET.
- PROVIDE TRANSFER SWITCH WITH QUANTITY AND SIZE OF LUGS FOR CIRCUITS SHOWN, OR WITH TAP BLOCKS FOR CIRCUITS SHOWN. CONTRACTOR HAS THE OPTION TO PRESERVE AND REUSE THE EXISTING TRANSFER SWITCH IN LIEU OF PROVIDING A NEW UNIT. COORDINATE WITH PUGET SOUND ENERGY (PSE) FOR TRENCHING, EXCAVATION, CONDUIT AND CONDUCTOR REQUIREMENTS.
- BOND GENERATOR FRAME TO GROUND. DO NOT BOND GENERATOR NEUTRAL TO GROUND.
- SEE ELEMENTARY WIRING DIAGRAM ON SHEET E-6 FOR FURTHER INFORMATION. SIZE CPT WITH 50% EXTRA CAPACITY.
- PROVIDE CIRCUIT BREAKER AND FEEDER CIRCUIT WITH CURRENT RATING THAT MEETS OR EXCEEDS 125 PERCENT OF THE INPUT CURRENT RATING OF THE ACTUAL VFD PROVIDED.

APPROVED

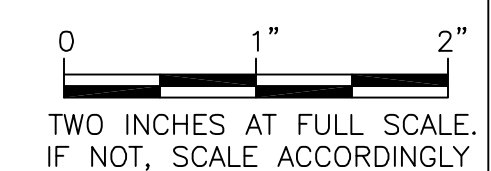
BY: _____
CITY ENGINEER
CITY OF PUYALLUP

APPROVED DATE: _____
EXPIRATION DATE: _____

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CONSULTING ENGINEERS
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SEATTLE, WASHINGTON 98144 • (206) 284-0860

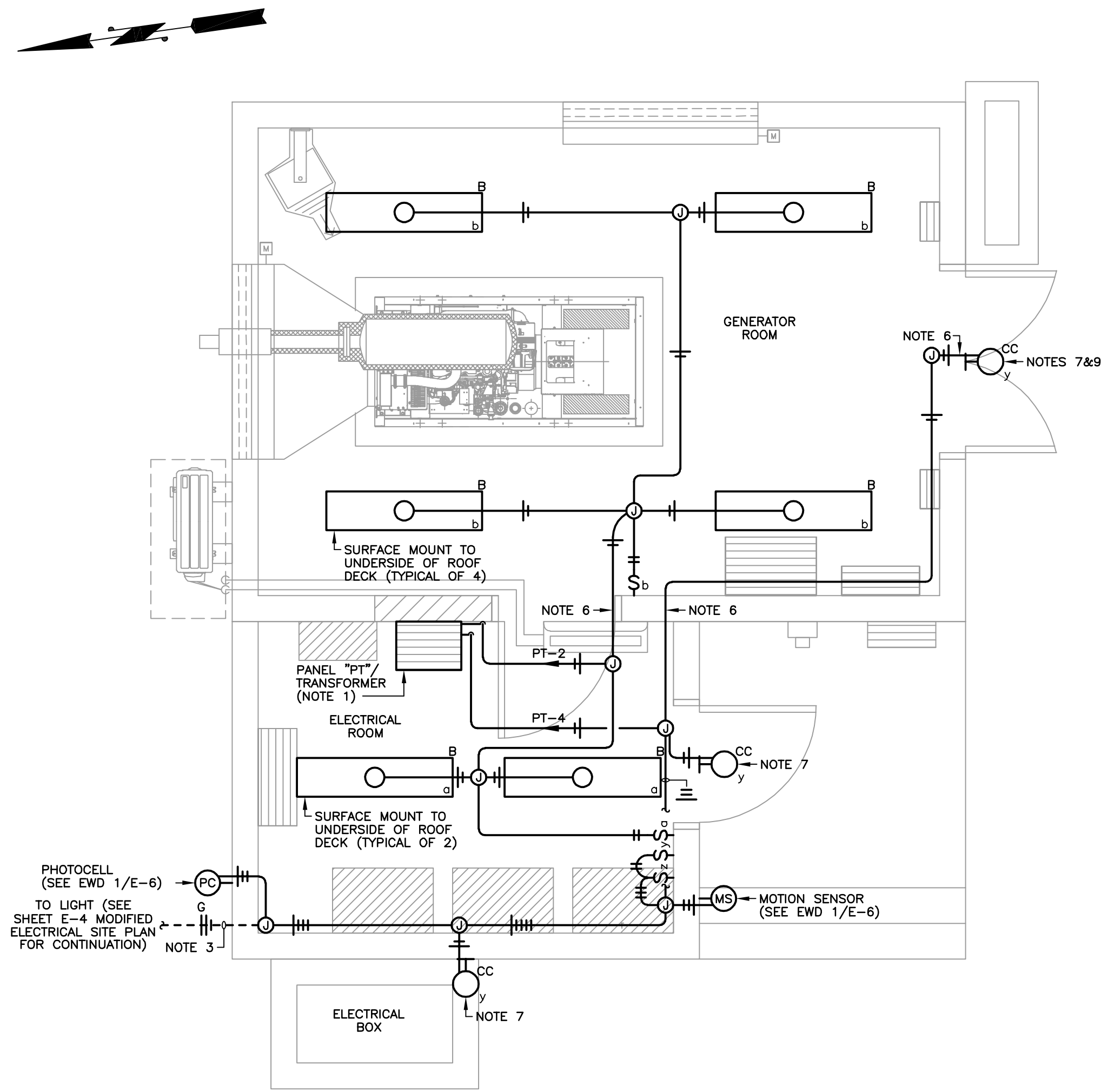
DATE: DEC 2020	DRAWN: JRM/MLO	CHECKED: JRM	APPROVED: MLO
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REVISION	DATE	APPD
PRELIMINARY NOT FOR CONSTRUCTION		

No.	REVISION	DATE	APPD

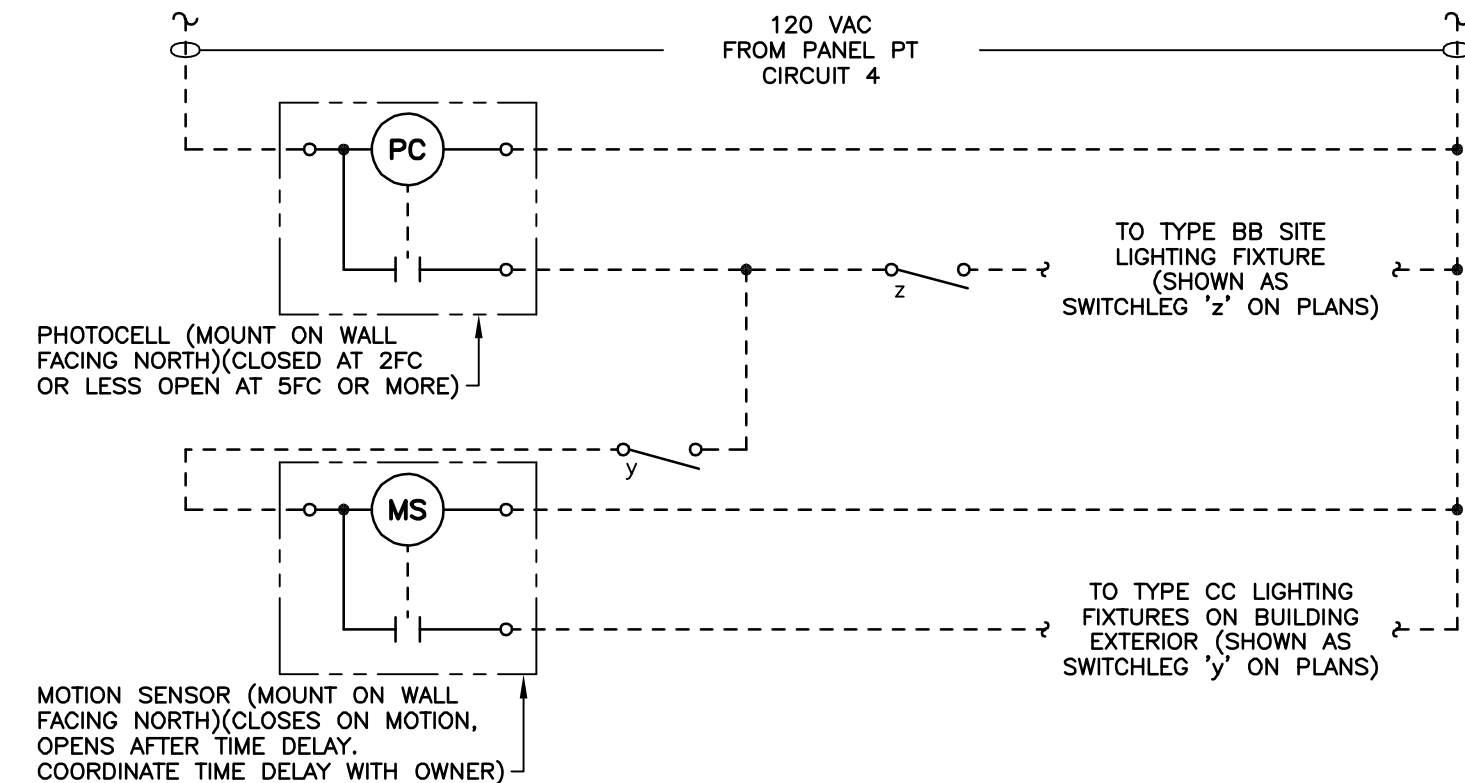
CITY OF PUYALLUP
WASHINGTON
PIERCE COUNTY
NORTH LEVEE ROAD PUMP STATION
REPLACEMENT
ONE LINE DIAGRAMS

SHEET: E-5
OF: 9
JOB NO.:
DWG: C-E00-05



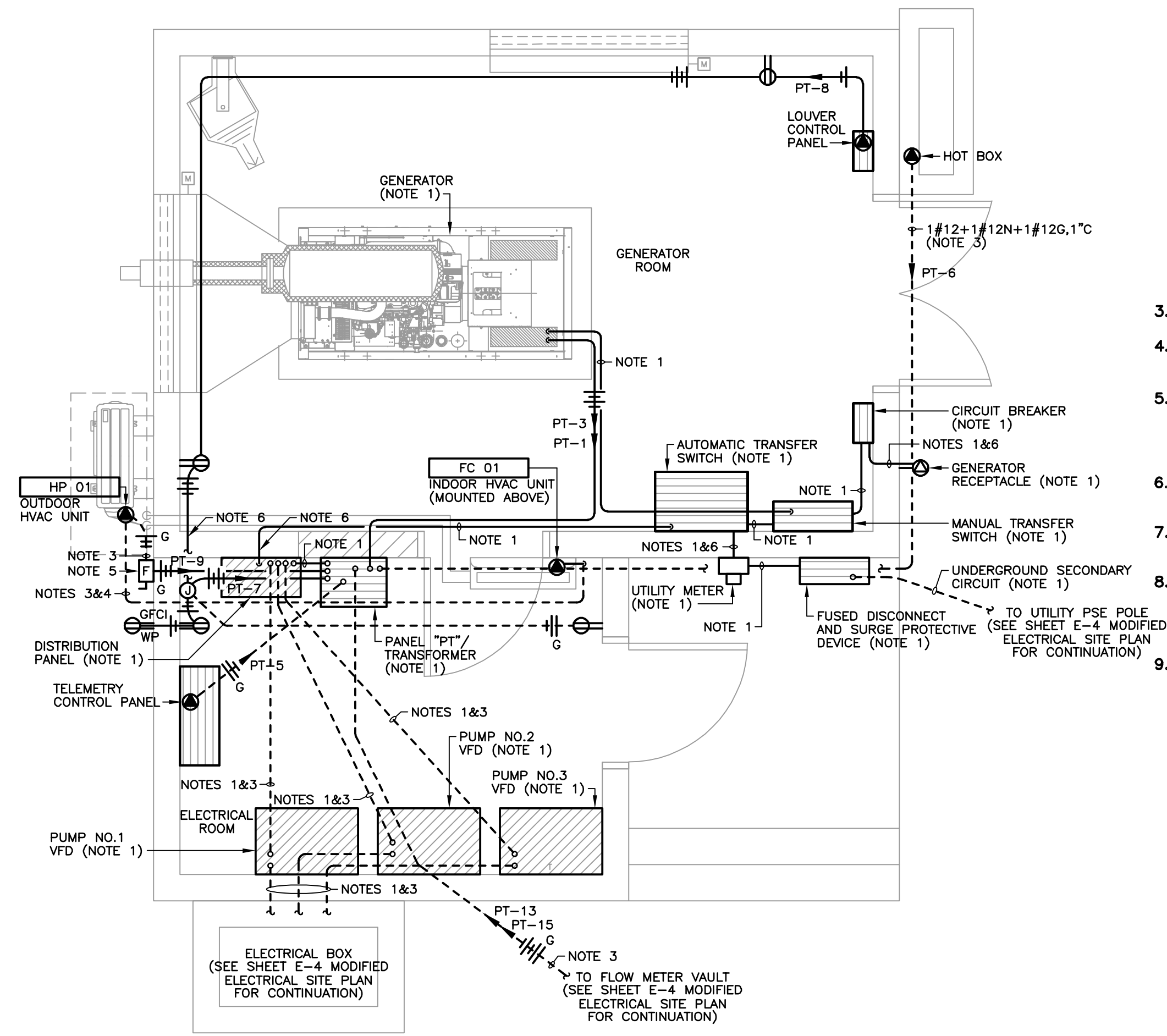
**MODIFIED LIGHTING PLAN
GENERATOR BUILDING**

SCALE: 3/8" = 1'-0"
(GENERAL NOTES: G01, G02, G04, G05, AND G06)



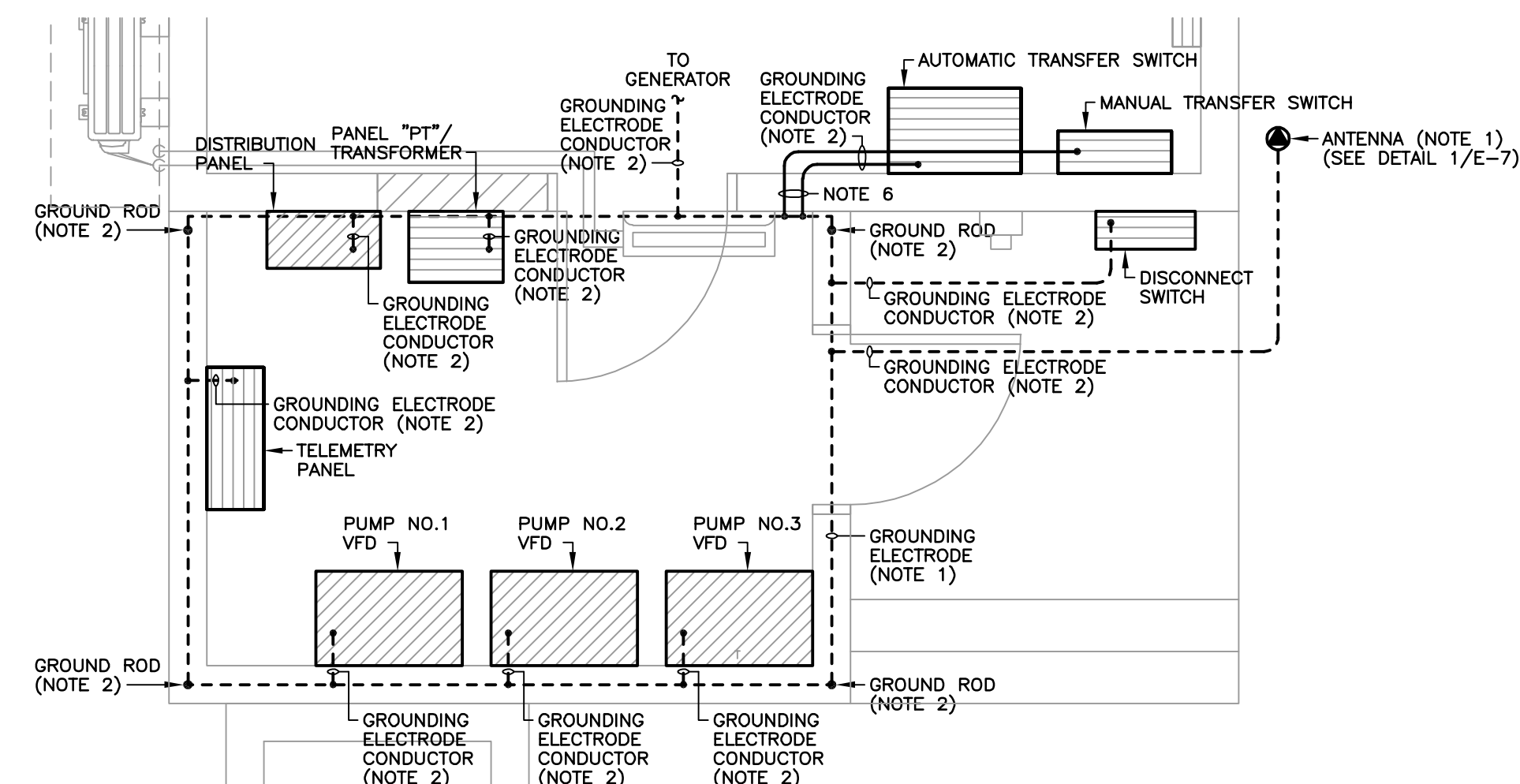
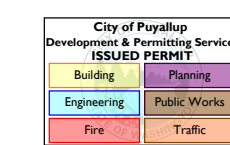
**EWD 1/E-6
EXTERIOR LIGHTING CONTROL**

SCALE: NONE



**MODIFIED POWER PLAN
GENERATOR BUILDING**

SCALE: 3/8" = 1'-0"
(GENERAL NOTES: G01, G02, G04, G05, AND G06)



**GROUNDING PLAN
GENERATOR BUILDING**

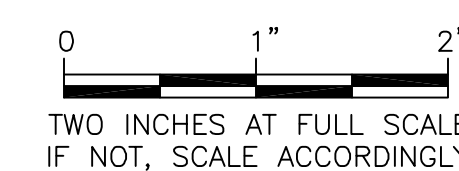
SCALE: 3/8" = 1'-0"
(GENERAL NOTES: G01, G02, G04, G05, AND G06)

NOTES:

- SEE SHEET E-2 FOR GENERAL NOTES FOR PLAN SHEETS (G01, G02, ETC.)
- SEE ONE LINE DIAGRAM SHEET E-5 FOR CIRCUIT AND EQUIPMENT INFORMATION.
 - PROVIDE #2 BARE COPPER GROUNDING ELECTRODE IN BUILDING FOOTING OR 30' DEEP WHERE THERE IS NO FOOTING. PROVIDE FOUR 3/4"x10' COPPER CLAD GROUND RODS CONNECTED TO GROUNDING ELECTRODE AS SHOWN. PROVIDE GROUNDING ELECTRODE CONDUCTORS FROM GROUNDING ELECTRODE TO THE FOLLOWING:

A. SERVICE DISCONNECT	#2
B. PUMP NO.1 VFD	#2
C. PUMP NO.2 VFD	#2
D. PUMP NO.3 VFD	#2
E. AUTOMATIC TRANSFER SWITCH	#2
F. TELEMETRY PANEL	#8
G. PANEL "PT"	#8
H. GENERATOR FRAME	#2
I. ANTENNA	#8
J. MANUAL TRANSFER SWITCH	#2
K. DISTRIBUTION PANEL	#4

 EXOTHERMICALLY WELD ALL CONNECTIONS. ALL ABOVE GRADE CONDUCTORS SHALL BE IN PVC CONDUIT.
 - SEE DETAIL 1/E-2 FOR TRENCHING INFORMATION.
 - PROVIDE MANUFACTURER'S RECOMMENDED CONDUCTORS IN 3/4" MINIMUM CONDUIT.
 - PROVIDE 2P-30A, NEMA 3R, HEAVY DUTY FUSED DISCONNECT WITH LOCK-OUT HANDLE. SIZE FUSES PER HVAC EQUIPMENT MANUFACTURER'S RECOMMENDATIONS FOR ACTUAL HVAC EQUIPMENT PROVIDED ON SITE.
 - CORE DRILL EXISTING WALL TO INSTALL NEW CONDUIT PER REQUIREMENTS IN CONTRACT SPECIFICATIONS.
 - COORDINATE LOCATIONS OF LIGHTING FIXTURES WITH EXTERIOR ELEVATIONS ON STRUCTURAL SHEETS PRIOR TO DEVICE ROUGH-IN.
 - COORDINATE EXACT LOCATION OF MECHANICAL EQUIPMENT AND ELECTRICAL CONNECTIONS ON EQUIPMENT WITH MECHANICAL EQUIPMENT INSTALLER AND MECHANICAL SUBMITTAL DRAWINGS PRIOR TO DEVICE ROUGH-IN.
 - PROVIDE SURFACE MOUNT DEVICE BOX FOR THIS LIGHTING FIXTURE.



APPROVED

BY: _____
CITY ENGINEER
CITY OF PUYALLUP

APPROVED DATE: _____
EXPIRATION DATE: _____

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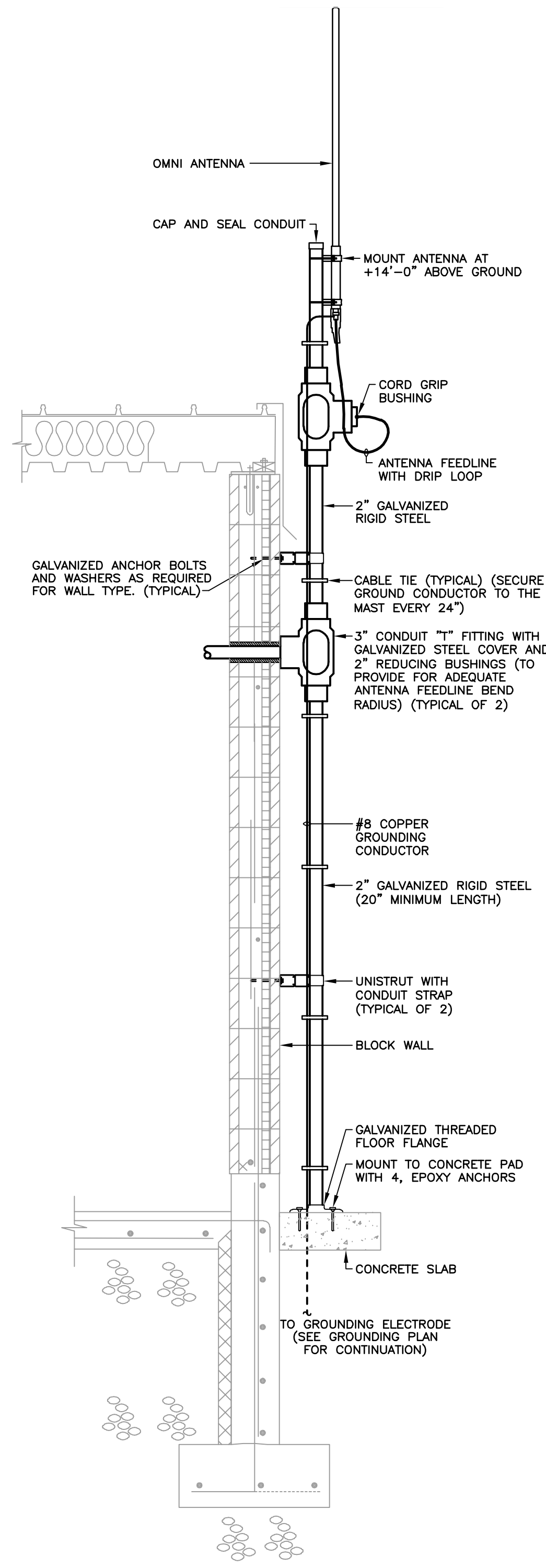
Gray & Osborne, Inc.
CONSULTING ENGINEERS
1130 RAINIER AVENUE SOUTH, SUITE 300
SEATTLE, WASHINGTON 98144 • (206) 284-0860

DATE: DEC 2020	DRAWN: MLO	CHECKED: JRM	APPROVED: MLO
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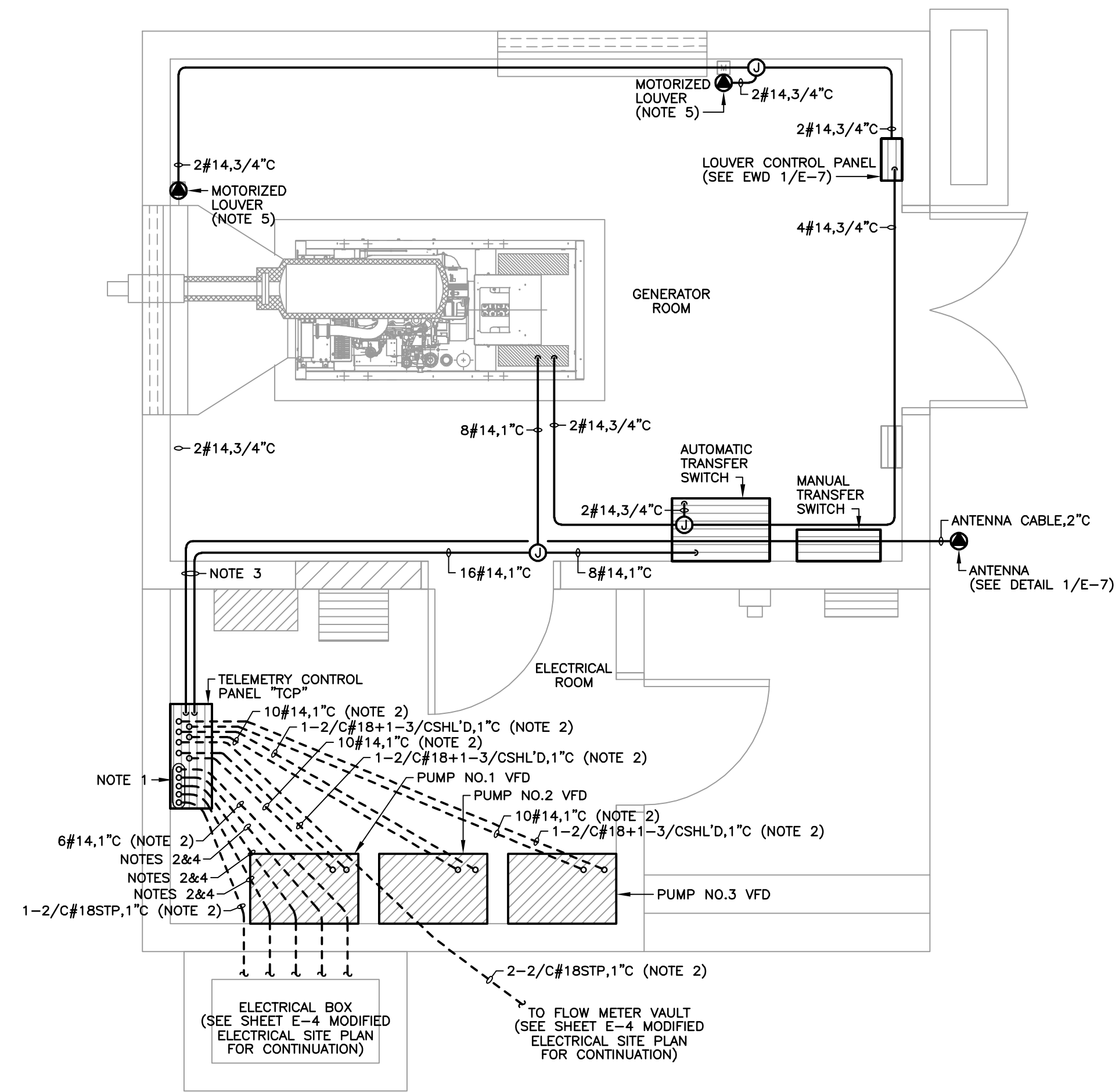
REVISION	DATE	APPD
PRELIMINARY NOT FOR CONSTRUCTION		
No.		

CITY OF PUYALLUP
WASHINGTON
PIERCE COUNTY
NORTH LEEVE ROAD PUMP STATION
REPLACEMENT
MODIFIED LIGHTING AND POWER PLANS
GENERATOR BUILDING

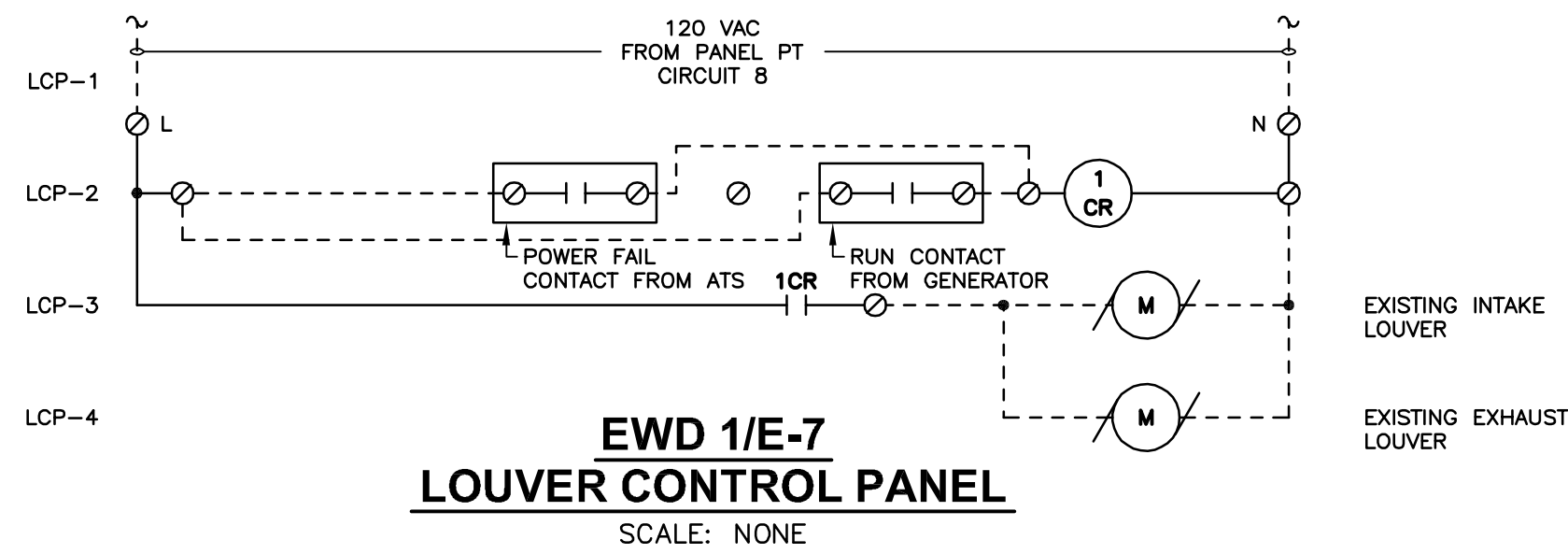
SHEET: E-6	JOB NO.:
OF: 9	DWG: C-E00-06



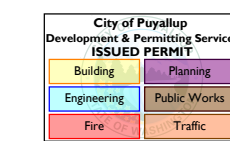
**DETAIL 1/E-7
ANTENNA MOUNTING**
SCALE: NONE



**PROCESS INSTRUMENTATION AND CONTROL PLAN
GENERATOR BUILDING**
SCALE: 3/8" = 1'-0"



**EWD 1/E-7
LOUVER CONTROL PANEL**
SCALE: NONE



NOTES:

- SEE SHEET E-2 FOR GENERAL NOTES FOR PLAN SHEETS (G01, G02, ETC.)
- ROUTE CONDUITS UP FROM FLOOR INTO INTRINSICALLY SAFE AREA OF TELEMETRY CONTROL PANEL.
- SEE DETAIL 1/E-2 FOR TRENCHING INFORMATION.
- CORE DRILL EXISTING WALL TO INSTALL NEW CONDUIT PER REQUIREMENTS IN CONTRACT SPECIFICATIONS.
- SEE MODIFIED ONE LINE DIAGRAM SHEET E-5 FOR CIRCUIT AND EQUIPMENT INFORMATION.
- CONNECT MOTORIZED DAMPER SPECIFIED UNDER DIVISION 15. EACH DAMPER MAY HAVE SEVERAL MOTOR OPERATORS. VERIFY EXACT QUANTITY OF MOTORS BEING PROVIDED WITH EQUIPMENT SUBMITTALS AND CONNECT TO EACH MOTOR. PROVIDE DISCONNECTING MEANS (SNAP-SWITCH) FOR EACH MOTOR.

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CONSULTING ENGINEERS
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SEATTLE, WASHINGTON 98144 • (206) 284-0860

DATE: DEC 2020	MLO	JRM	MLO
DRAWN:		CHECKED:	
APPROVED:			

REVISION	DATE	APPD
PRELIMINARY NOT FOR CONSTRUCTION		

No.	REVISION	DATE	APPD

CITY OF PUYALLUP
PIERCE COUNTY WASHINGTON
NORTH LEEVE ROAD PUMP STATION REPLACEMENT
PROCESS INSTRUMENTATION AND CONTROL PLAN
GENERATOR BUILDING

APPROVED

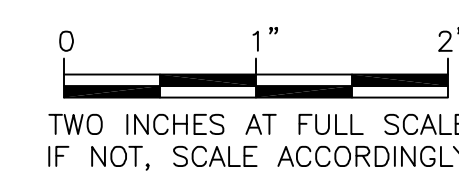
BY: _____
CITY ENGINEER
CITY OF PUYALLUP

APPROVED DATE: _____
EXPIRATION DATE: _____

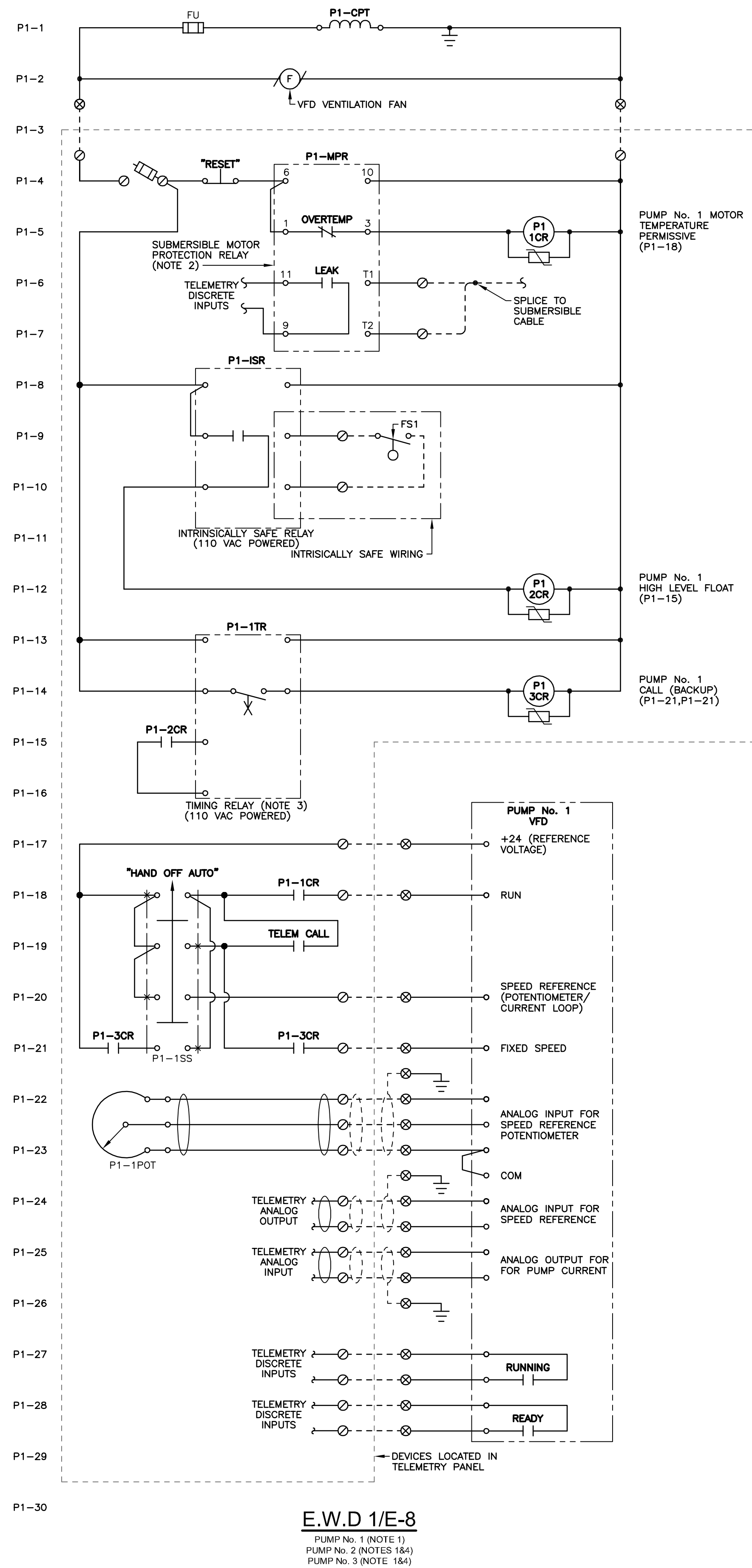
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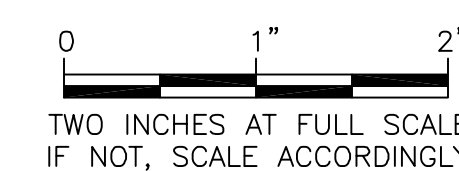
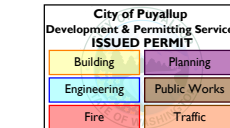
SHEET: E-7
OF: 9
JOB NO.:
DWG: C-E00-07



E.W.D 1/E-8
 PUMP No. 1 (NOTE 1)
 PUMP No. 2 (NOTES 1&4)
 PUMP No. 3 (NOTE 1&4)

NOTES:

1. TERMINAL NUMBERS AND WIRE LABELS ARE GENERIC AND PROVIDED AS A RECOMMENDATION. IF DIFFERENT TERMINAL NUMBERS ARE TO BE PROVIDED, SUBMIT MODIFIED SHEET WITH UPDATED WIRE LABELS WHICH MEET THE REQUIREMENTS OF SPECIFICATION 16120 3.3 K3 WITH THE MOTOR CONTROL CENTER SUBMITTAL.
2. INSTALL MOTOR PROTECTION RELAY PROVIDED WITH THE PUMP.
3. TIMING RELAY SHALL HAVE AN ON-DELAY OF 5 SECONDS AND AN OFF-DELAY ADJUSTED FROM AT LEAST 1 TO 10 MINUTES.
4. WIRING FOR PUMPS No. 2 AND No. 3 IS SIMILAR TO WIRING FOR PUMP No. 1.



APPROVED

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 CITY ENGINEER
 CITY OF PUYALLUP

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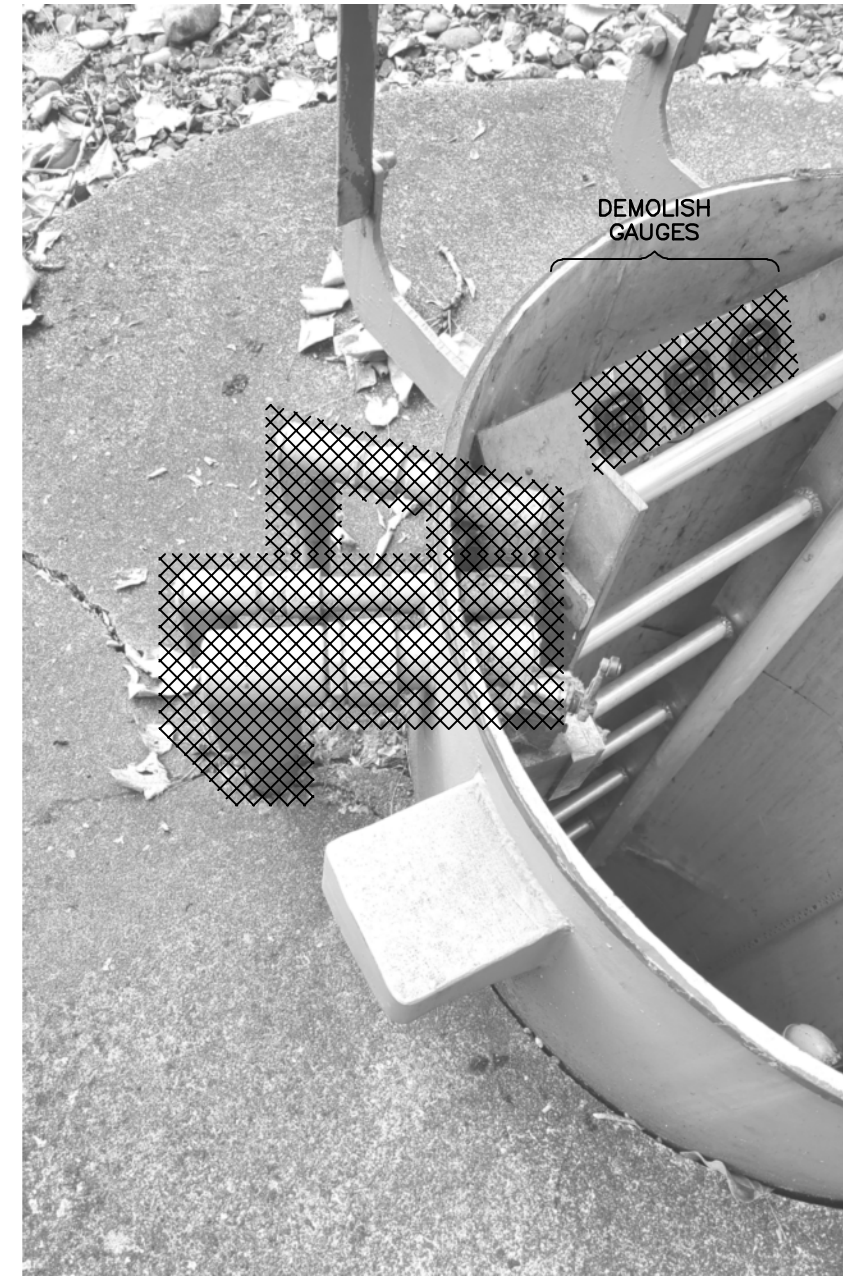
DATE: DEC 2020	DRAWN: THP	CHECKED: JRM	APPROVED: MLO
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REVISION	DATE	APPD
PRELIMINARY NOT FOR CONSTRUCTION		

No.	REVISION	DATE	APPD

CITY OF PUYALLUP
PIERCE COUNTY WASHINGTON
**NORTH LEEVE ROAD PUMP STATION
 REPLACEMENT**
 ELEMENTARY WIRING DIAGRAMS

SHEET: E-8
OF: 9
JOB NO.: 20503
DWG: C-E00-08



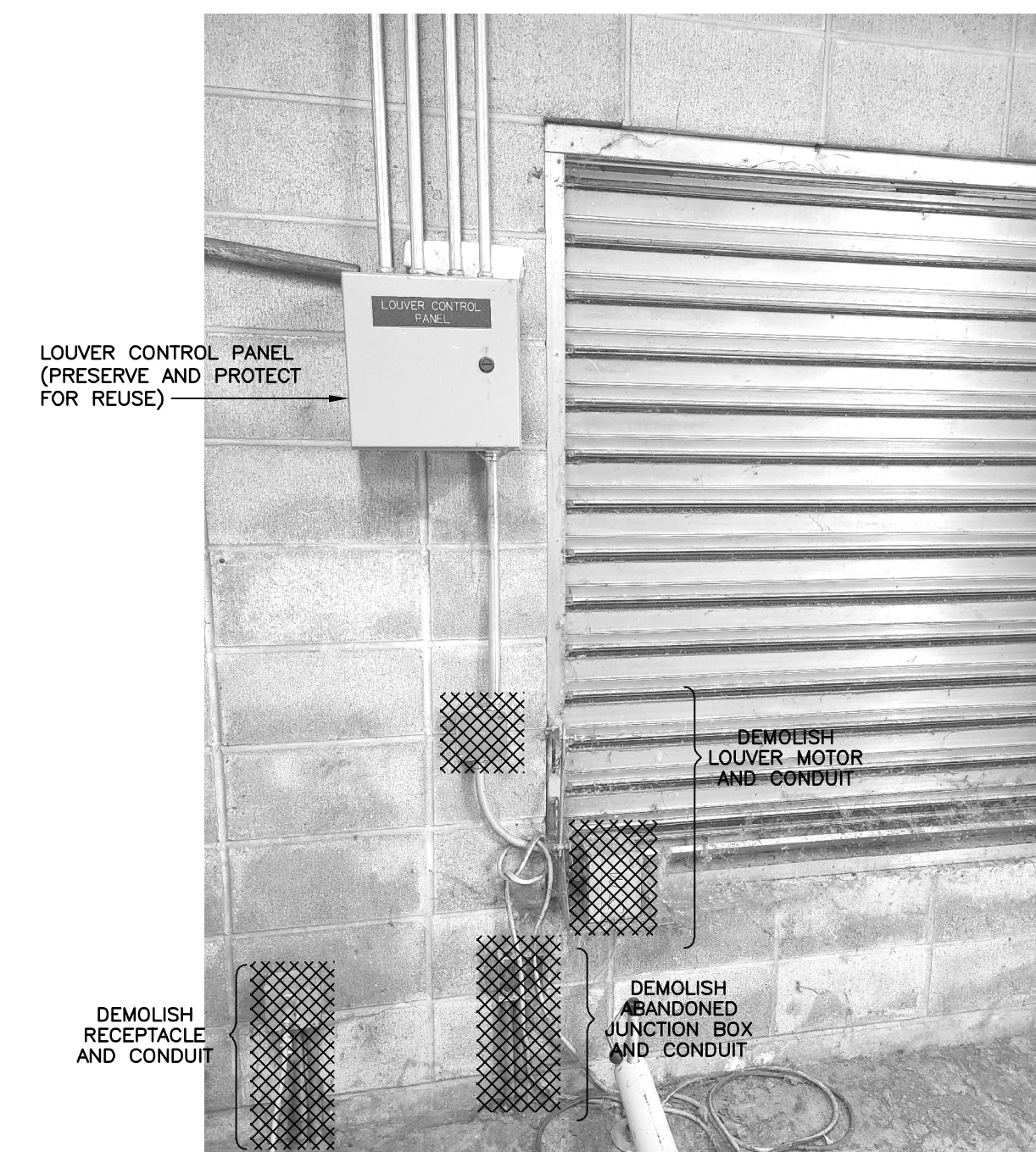
**DETAIL 1/E-9
DRY WELL**
SCALE: NONE



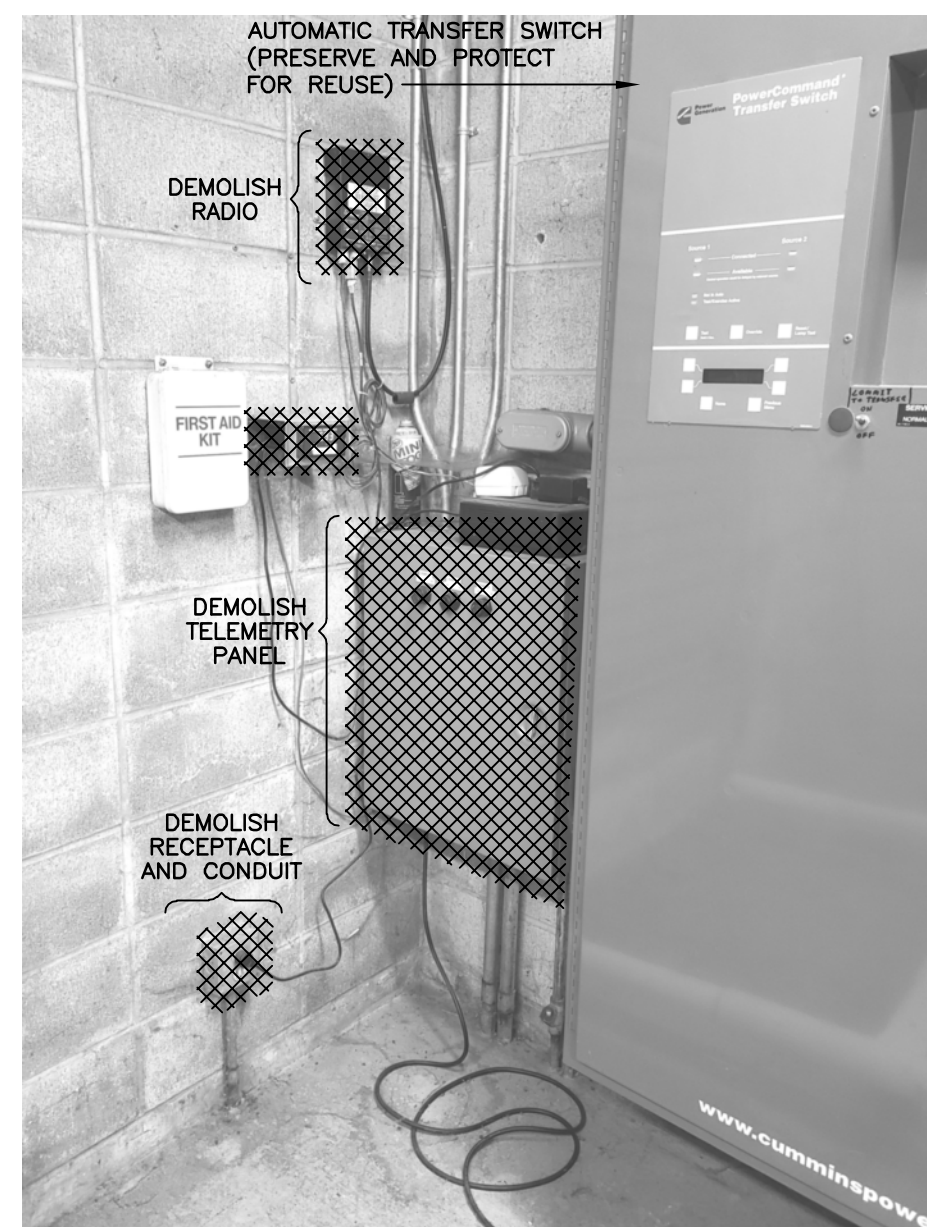
**DETAIL 2/E-9
NORTHEAST CORNER**
SCALE: NONE



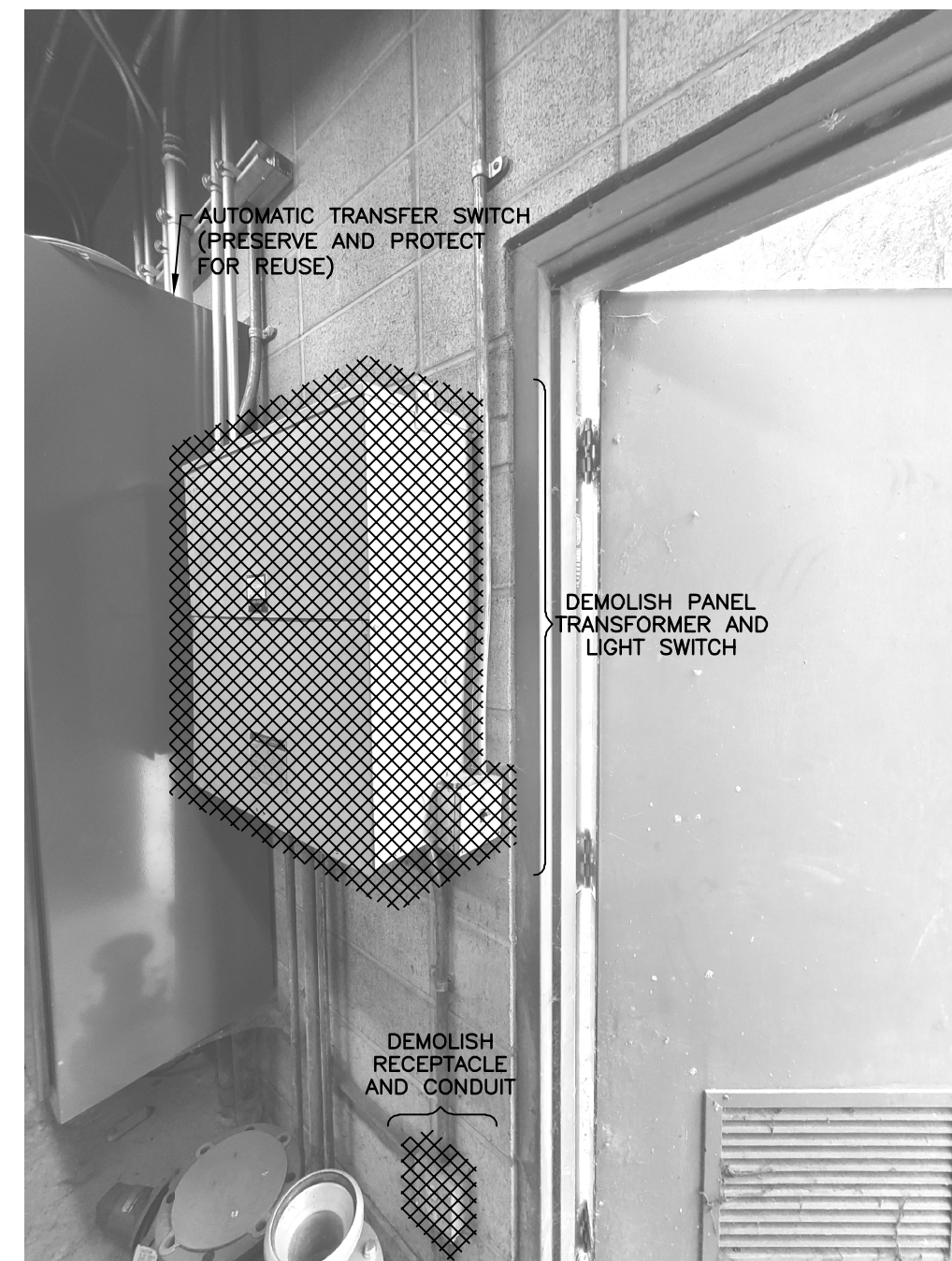
**DETAIL 3/E-9
EAST WALL**
SCALE: NONE



**DETAIL 4/E-9
SOUTH WALL**
SCALE: NONE



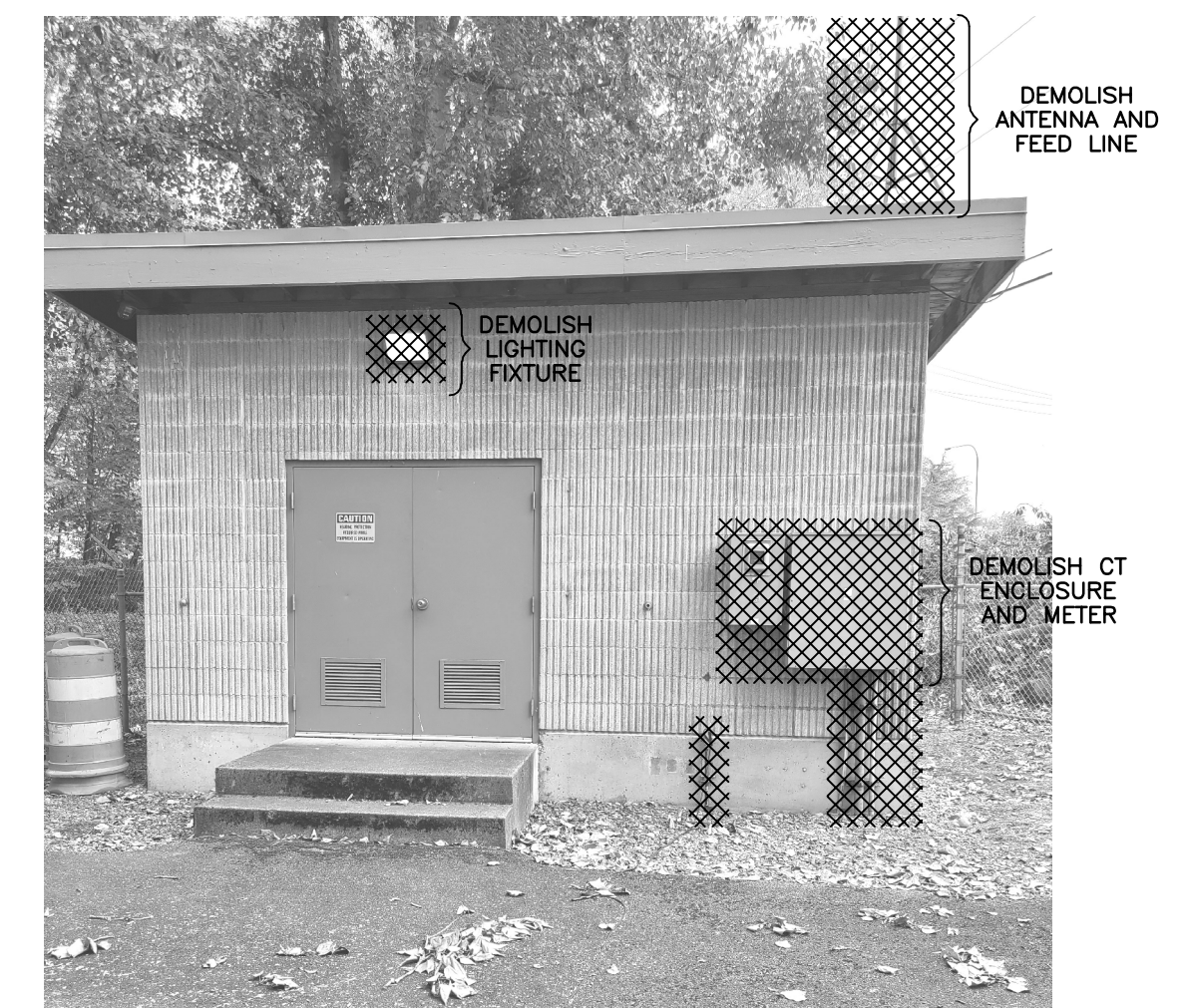
**DETAIL 5/E-9
SOUTHWEST CORNER**
SCALE: NONE



**DETAIL 6/E-9
WEST WALL**
SCALE: NONE



**DETAIL 7/E-9
CEILING**
SCALE: NONE



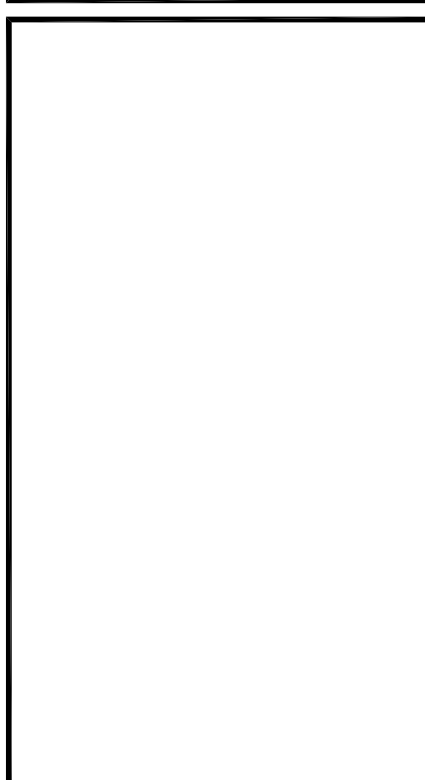
**DETAIL 8/E-9
EXTERIOR WEST WALL**
SCALE: NONE

0 1" 2"
TWO INCHES AT FULL SCALE.
IF NOT, SCALE ACCORDINGLY

APPROVED
BY: _____
CITY ENGINEER
CITY OF PUYALLUP
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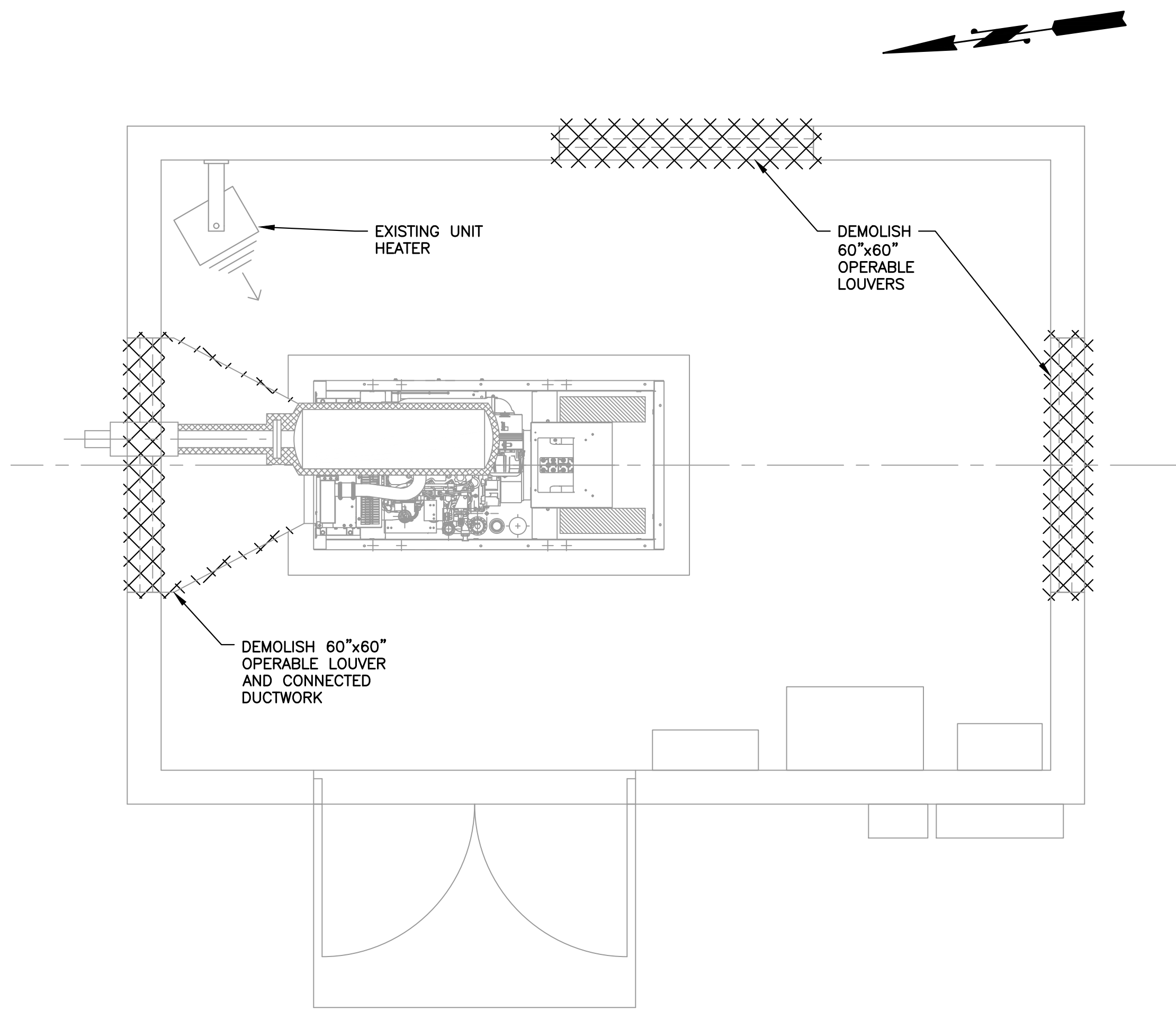
DATE: DEC 2020	MLO	JRM	MLO
DRAWN:		CHECKED:	
APPROVED:			

REVISION	DATE	APPD
PRELIMINARY NOT FOR CONSTRUCTION		
No.		



CITY OF PUYALLUP
WASHINGTON
PIERCE COUNTY
NORTH LEEVE ROAD PUMP STATION REPLACEMENT
DEMOLITION PHOTOS

m:\PUYALLUP\20503 - north levee road pump station\02 planset\HVAC\H_PLAN.dwg, 1/27/2021 12:28 PM, CHARLEY RED



HVAC DEMOLITION PLAN
SCALE: 1/2"=1'-0"

HVAC DESIGN CRITERIA

OA VENTILATION

NONE: GENERATOR BUILDING SPACES ARE CONSIDERED NON-OCCUPIED EQUIPMENT ROOMS.

DESIGN TEMPERATURES

WINTER AMBIENT TEMP: 19 °F
SUMMER AMBIENT TEMP: 86 °F
INTERIOR HEATING SETPOINT: 40 °F
INTERIOR COOLING SETPOINT: 90 °F

HEATING/COOLING

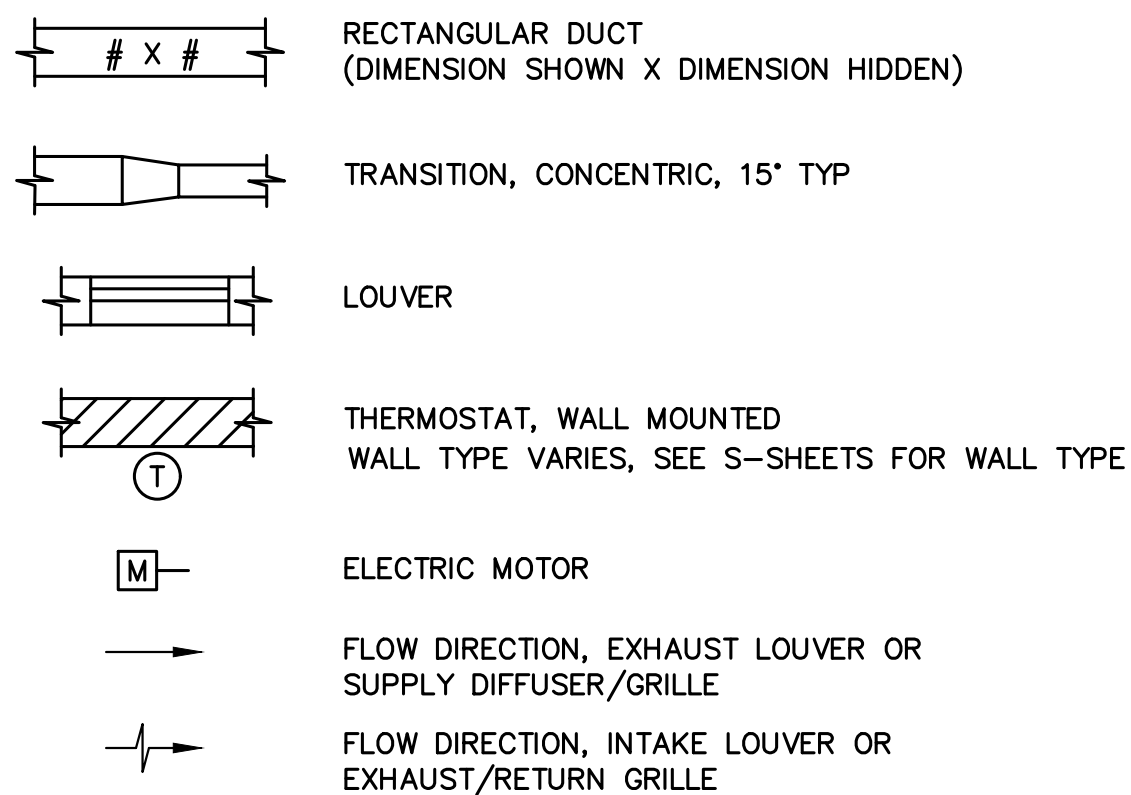
ELECTRICAL ROOM:
REQ'D HEATING LOAD: 1.7 MBH
REQ'D COOLING LOAD: 6 MBH
TYPE: SPLIT HEAT PUMP AND FAN COIL
DESIGN AIR FLOW: 120-440 CFM

CONTROL DESCRIPTION:

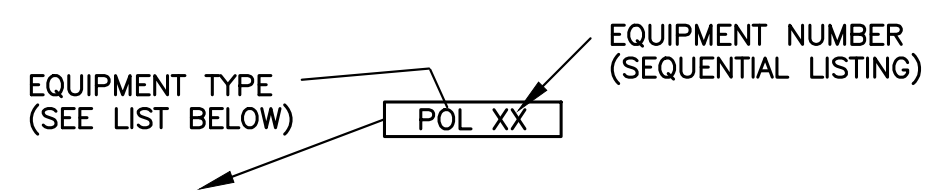
HEAT PUMP [HP 01] AND FAN COIL [FC 01] PROVIDE HEATING AND COOLING FOR THE ELECTRICAL ROOM AND IS CONTROLLED BY THERMOSTAT [T 01].

MOTORIZED DAMPERS [MD 01] AND [MD 02] SHALL BE INTERLOCKED WITH THE BACKUP GENERATOR TO OPEN WHEN THE GENERATOR IS OPERATING.

HVAC SYMBOLS



HVAC EQUIPMENT & AIR DEVICE IDENTIFICATIONS



EQUIPMENT
FC FAN COIL
HP HEAT PUMP
LVR LOUVER
MD MOTORIZED DAMPER
T THERMOSTAT

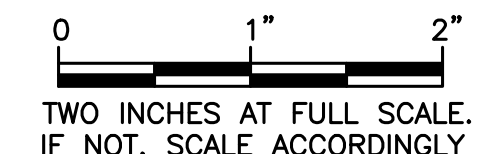
HVAC ABBREVIATIONS

A AMPERE
ACH AIR CHANGES PER HOUR
AFF ABOVE FINISHED FLOOR
AFG ABOVE FINISHED GRADE
AHJ AUTHORITY HAVING JURISDICTION
BLDG BUILDING
BTU BRITISH THERMAL UNIT
CAP CAPACITY
CFM CUBIC FEET PER MINUTE
EA EXHAUST AIR
°F DEGREES FAHRENHEIT
MBH 1,000 BTU'S/HR
MCA MINIMUM CIRCUIT AMPS
MFR MANUFACTURER
MOCP MAXIMUM OVER CURRENT PROTECTION
NA NOT APPLICABLE
OA OUTSIDE AIR
SP STATIC PRESSURE
TEMP TEMPERATURE
UNO UNLESS NOTED OTHERWISE
V VOLTS
W WATT
WC WATER COLUMN

HVAC GENERAL NOTES

- MATERIALS, METHODS AND INSTALLATION SHALL COMPLY WITH THE CONTRACT SPECIFICATIONS AND WITH THE PROVISIONS OF THE 2015 INTERNATIONAL MECHANICAL CODE, 2015 INTERNATIONAL BUILDING CODE, 2015 INTERNATIONAL FIRE CODE AS AMENDED BY THE STATE OF WASHINGTON AND THE LOCAL AUTHORITY HAVING JURISDICTION.
- THESE PLANS ARE SCHEMATIC AND DO NOT SHOW EXACT ROUTING OR EVERY OFFSET, WHICH MAY BE REQUIRED. THE HVAC CONTRACTOR IS TO COORDINATE WITH ALL OTHER TRADES AND IS TO VERIFY ALL CLEARANCES BEFORE COMMENCING WORK.
- CONTRACTOR SHALL VERIFY THE DIMENSIONS WITH THE EQUIPMENT MANUFACTURER TO PROVIDE DUCT TRANSITIONS TO HVAC VENTILATORS, FANS, LOUVERS, OR SUPPLY/EXHAUST GRILLES TO MATCH THE INLET/OUTLET DIMENSIONS OF THE EQUIPMENT.
- PROVIDE EARTHQUAKE RESTRAINT FOR HVAC EQUIPMENT IN ACCORDANCE WITH SMACNA RESTRAINT MANUAL AS REQUIRED BY 2015 INTERNATIONAL BUILDING CODE REQUIREMENTS.
- CONSTRUCTION, SUPPORTS AND INSTALLATION SHALL BE INSTALLED AND COMPLY WITH THE 2015 INTERNATIONAL MECHANICAL CODE (IMC) AND WITH SMACNA HVAC DUCT CONSTRUCTION STANDARDS-METAL AND FLEXIBLE.
- ALL DUCTWORK IS CLASSIFIED AS LOW PRESSURE.
- LOCATE THERMOSTATS 5 FEET AFF. UNLESS OTHERWISE NOTED.
- PROVIDE FLEXIBLE DUCT CONNECTIONS ON ALL DUCTWORK CONNECTING TO EQUIPMENT.
- EQUIPMENT DRAIN PIPING SHALL MAINTAIN A MIN HORIZONTAL SLOPE IN THE DIRECTION OF DISCHARGE OF MIN -1/8 INCH VERTICAL PER 1 FOOT HORIZONTAL.
- CONTRACTOR SHALL COORDINATE CEILING EQUIPMENT LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLANS AND ELECTRICAL LIGHTING LAYOUT.
- EQUIPMENT CONDENSATE DRAINS SHALL BE TRAPPED AS REQUIRED BY THE EQUIPMENT OR APPLIANCE MANUFACTURER.
- REFRIGERANT PIPING SHALL BE INSTALLED WITH CLOSED CELL ELASTOMERIC INSULATION IN ACCORDANCE WITH SPECIFICATION 15700. INSULATION EXPOSED TO OUTSIDE CONDITIONS SHALL BE ENCLOSED BY A LINE-HIDE LINESSET COVER SYSTEM.
- BUILDING HVAC DOCUMENTS SUCH AS RECORDS, CALCULATIONS, COMPLIANCE FORMS, AND EQUIPMENT MANUALS SHALL BE SUPPLIED TO THE BUILDING OWNER.

APPROVED
BY: _____
CITY ENGINEER
CITY OF PUYALLUP
APPROVED DATE: _____
EXPIRATION DATE: _____
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LOUVER SCHEDULE							
BUILDING	ROOM NAME	LOUVER NO.	TYPE	MANUFACTURER & MODEL NO.	ROUGH OPENING SIZE (WxH)	MOUNTING HEIGHT	REMARKS
GENERATOR BUILDING	GENERATOR ROOM	LVR 01	INTAKE LOUVER	GREENHECK ESD-635 OR EQUAL	60"x60"	BOTTOM @ 16" AFF	PROVIDE EXTENDED SILL, HYLAR/KYNAR FINISH, BIRD SCREEN, INSECT SCREEN, AND CLIP ANGLES.
		LVR 02	EXHAUST LOUVER	GREENHECK ESD-635 OR EQUAL	60"x60"	BOTTOM @ 16" AFF	PROVIDE EXTENDED SILL, HYLAR/KYNAR FINISH, BIRD SCREEN, INSECT SCREEN, AND CLIP ANGLES.

CONTROL DAMPER SCHEDULE											
BUILDING	ROOM NAME	DAMPER NO.	FRAME TYPE	MANUFACTURER & MODEL NO.	VOLTAGE AND PHASE	NOMINAL SIZE (WxH)	ACTUATOR MFR.	ACTUATOR MOUNTING	NO. OF ACTUATORS	FAIL POSITION	REMARKS
GENERATOR BUILDING	GENERATOR ROOM	MD 01	CHANNEL	GREENHECK ICD-45 OR EQUAL	115 V 1ø	60"x60"	BELLIMO OR EQUAL	EXTERNAL	1	OPEN	PROVIDE HI-PRO POLYESTER FINISH. OPEN WHEN GENERATOR IS RUNNING, OTHERWISE CLOSED.
		MD 02	CHANNEL	GREENHECK ICD-45 OR EQUAL	115 V 1ø	60"x60"	BELLIMO OR EQUAL	EXTERNAL	1	OPEN	PROVIDE HI-PRO POLYESTER FINISH. OPEN WHEN GENERATOR IS RUNNING, OTHERWISE CLOSED.

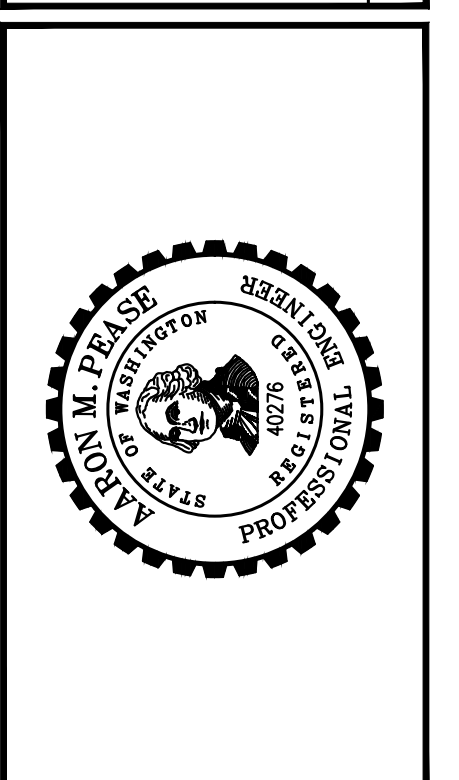
HEAT PUMP SCHEDULE											
BUILDING	ROOM NAME	UNIT NO.	TYPE	MANUFACTURER & MODEL NO.	VOLTAGE, PHASE AND MCA	CONTROLS	STANDARD AIRFLOW	HEATING CAPACITY	COOLING CAPACITY	AHRI LISTED EFFICIENCY	REMARKS
GENERATOR BUILDING	ELECTRICAL ROOM	HP 01	OUTDOOR HEAT PUMP	MITSUBISHI MUZ-GLO9NA-U1 OR EQUAL	230 V 1ø 9 A	FC 01	~1,200 CFM	8,100 BTU/HR @ 5 °F OAT	9,000 BTU/HR @ 95 °F OAT	24.6 SEER	PROVIDE INSULATED LINE SET, INSULATED DRAIN PIPE, LINE HIDE SET, DRAIN PAN HEATER, AND WALL MOUNTING BRACKET.
		FC 01	INDOOR WALL FAN COIL	MITSUBISHI MSZ-GLO9NA-U1 OR EQUAL	230 V 1ø 1 A	T 01	145-400 CFM			12.8 HSPF	PROVIDE WIRELESS CONTROLLER MHK2. MOUNT ABOVE DOOR.

CONTROL SCHEDULE									
BUILDING	ROOM NAME	UNIT NO.	TYPE	CONTROLLED EQUIPMENT	MANUFACTURER & MODEL NO.	HEAT SET POINT	COOL SET POINT	VOLTAGE AND PHASE	REMARKS
GENERATOR BUILDING	ELECTRICAL ROOM	T 01	WIRELESS PROGRAMMABLE THERMOSTAT	FC 01	MITSUBISHI MHK2 OR EQUAL	40 °F	90 °F	12 VDC	



DATE: JAN 2021
DRAWN: CRB
CHECKED: ASD
APPROVED: AMP

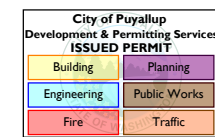
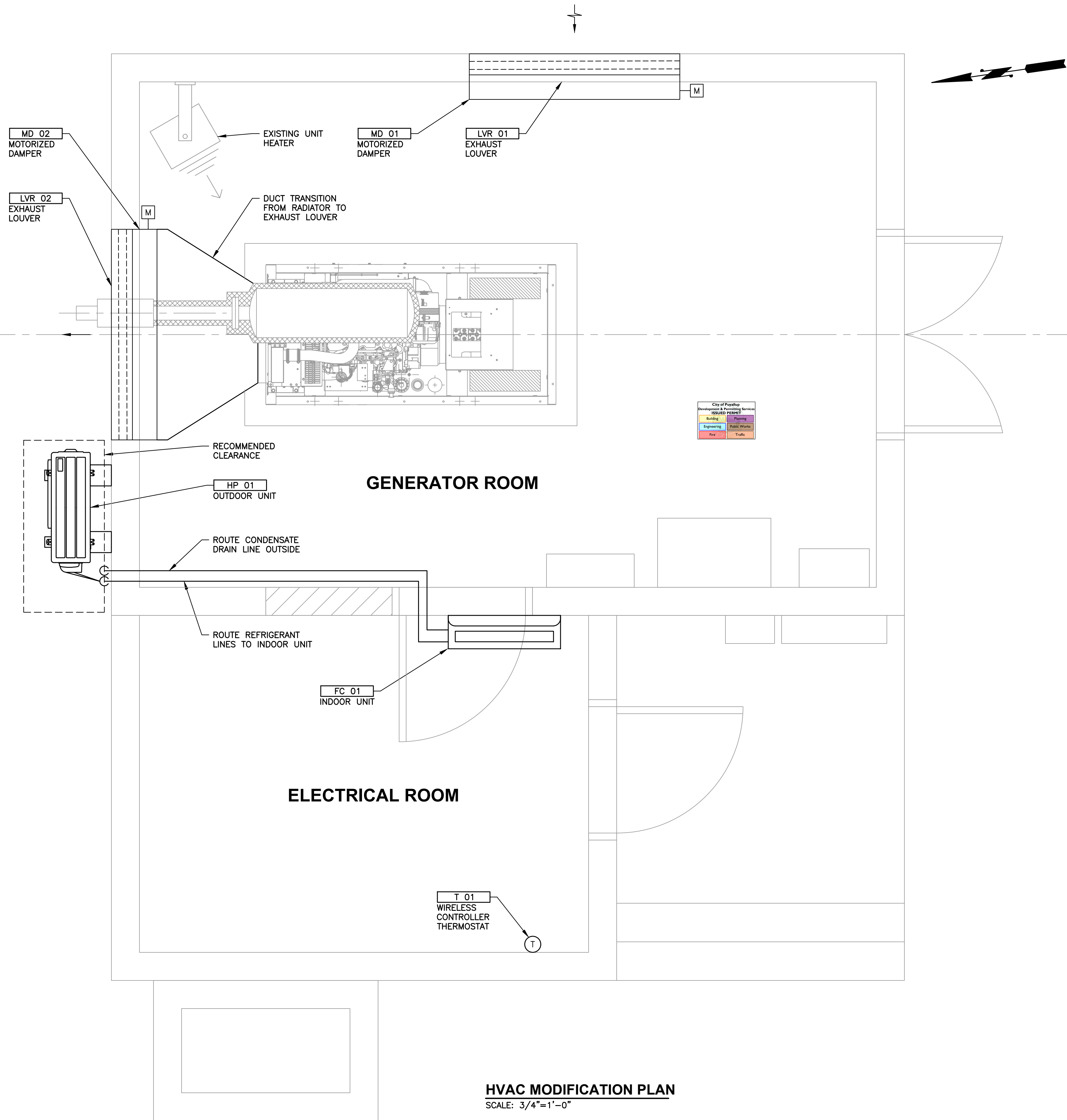
PRELIMINARY NOT FOR CONSTRUCTION	DATE	APPD
	REVISION	
No.		



CITY OF PUYALLUP
PIERCE COUNTY WASHINGTON
NORTH LEEVE ROAD PUMP STATION REPLACEMENT
GENERATOR BUILDING HVAC DEMOLITION PLAN, NOTES AND SCHEDULES

SHEET: **H-1**
OF: **2**
JOB NO.: 20503
DWG: H_PLAN

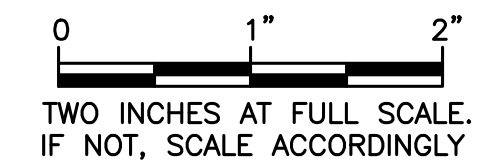
m:\PUYALLUP\20503 - north levee road pump station\02_planset\HVAC\H_PLAN.dwg, 1/27/2021 12:30 PM, CHARLEY REID



GENERATOR ROOM

ELECTRICAL ROOM

HVAC MODIFICATION PLAN
SCALE: 3/4"=1'-0"



APPROVED

BY: _____
CITY ENGINEER
CITY OF PUYALLUP

APPROVED DATE: _____
EXPIRATION DATE: _____

NOTE: This approval expires on the date shown. If construction has not started by expiration date, plans must be resubmitted for review and approval.

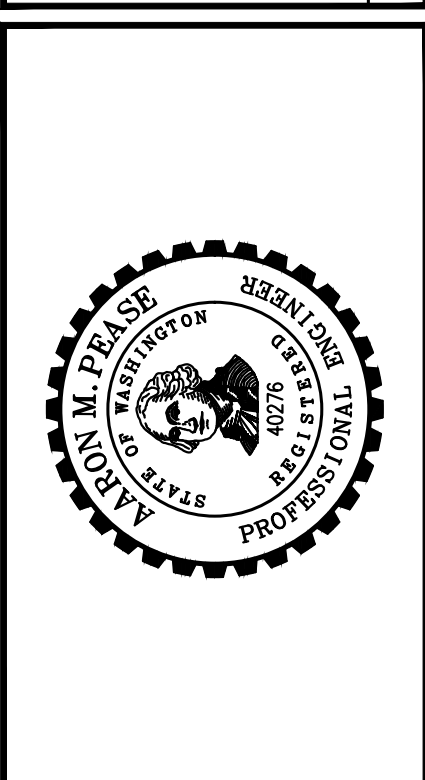
The City will not be responsible for errors and/or omissions on these plans.

Field conditions may dictate changes to these plans as determined by the City Engineer.

Gray & Osborne, Inc.
CONSULTING ENGINEERS
1130 RAINIER AVENUE SOUTH, SUITE 300
SEATTLE, WASHINGTON 98144 • (206) 284-0860

DATE: JAN 2021	DRAWN: CRF	CHECKED: ASD	APPROVED: AMP
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REVISION	DATE	APPD
PRELIMINARY NOT FOR CONSTRUCTION		
No.		



CITY OF PUYALLUP
PIERCE COUNTY WASHINGTON
NORTH LEVEE ROAD PUMP STATION REPLACEMENT
GENERATOR BUILDING HVAC MODIFICATION PLAN

SHEET: H-2
OF: 2
JOB NO.: 20503
DWG: H_PLAN