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

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 VIVILLE VIVILLE

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.

ROOF SNOW LOAD:

.. 25 PSF GROUND SNOW LOAD,Pg..... .. 20 PSF ROOF LIVE LOAD:, Lr.....

WIND DESIGN DATA:

RISK CATEGORY. WIND EXPOSURE.

EARTHQUAKE DESIGN DATA MAPPED SPECTRAL RESPONSE

ACCELERATIONS . 1.282 g .0.441 g SITE CLASS.. SPECTRAL RESPONSE COEFFICIENT

0.855 0.547 SEISMIC IMPORTANCE FACTOR, Ie....... .1.25 RISK CATEGORY.. SEISMIC DESIGN CATEGORY.

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.

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, FY=36 KSI.

W-SHAPES: ASTM A992, Fy=50 KSI.

B-21-0311CITY OF PUYALLUP

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, FY=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

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

ALL STEEL MEMBERS SHALL BE HOT-DIP GALVANIZED IN ACCORDANCE WITH ASTM A123, UNO. FASTENERS FOR GALVANIZED MEMBERS SHALL ALSO BE HOT-DIP GALVANIZED, UNO.

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:

2018 INTERNATIONAL BUILDING CODE 2018 INTERNATIONAL MECHANICAL CODE 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:**

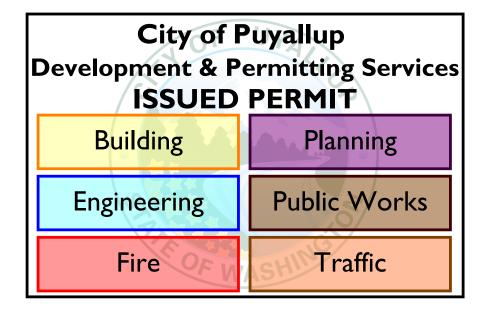
1. ALLOWABLE AREA (TABLE 506.2) = 8,500 SF

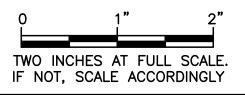
THE APPROVED CONSTRUCTION PLANS, DOCUMENTS AND ALL ENGINEERING MUST BE POSTED ON THE JOB AT ALL INSPECTIONS IN A VISIBLE AND READILY ACCESSIBLE LOCATION.

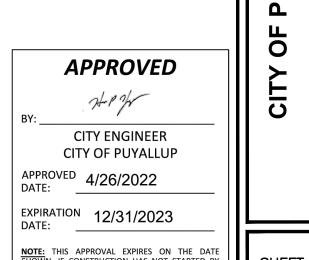
FULL SIZED LEDGIBLE COLOR PLANS ARE REQUIRED TO BE PROVIDED BY THE PERMITEE ON SITE FOR INSPECTION

## BUILDING &FENCE (SEE SEPERATE PLAN SHEET)









NOTE: THIS APPROVAL EXPIRES ON THE DATE SHOWN. IF CONSTRUCTION HAS NOT STARTED BY THE EXPIRATION DATE, PLANS MUST BE RESUBMITTED FOR REVIEW AND APPROVAL. THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS FIELD CONDITIONS MAY DICTATE CHANGES DWG:S\_STND

**S-1** SHEET: JOB NO.: 20503

SPECIAL INSPECTION SCHEDULE						
VERIFICATION AND INSPECTION	CI	PI	REMARKS/REFERENCES			
CONCRETE:						
REINFORCING STEEL INCLUDING PLACEMENT	_	Х	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	-	Х	ACI 318: 26.11.1.2(6)			
MASONRY:						
PROVISIONS OF CONSTRUCTION DOCUMENTS AND SUBMITTALS	-	Х				
VERIFICATION OF F'm and F'aac	_	Х	PRIOR TO CONSTRUCTION			
SLUMP FLOW AND VSI	Х	_				
SITE-PREPARED MORTAR AND MORTAR JOINTS	_	Х	BEGINS & PRIOR CONSTRUCTION			
LOCATION OF REINFORCEMENT, CONNECTORS, AND ANCHORAGES	_	Х	AS MASONRY CONSTRUCTION BEGINS			
SIZE AND LOCATION OF STRUCTURAL ELEMENTS	-	Х	DURING CONSTRUCTION			
ANCHOR TYPE, SIZE AND LOCATION	-	Х	DURING CONSTRUCTION			
SIZE, GRADE AND TYPE OF REINFORCEMENT, BOLTS AND ANCHORAGES	-	Х	DURING/PRIOR CONSTRUCTION			
HOT/COLD WEATHER CONSTRUCTION	_	Х	DURING CONSTRUCTION			
GROUT SPACE	_	X	PRIOR TO GROUTING			
STEEL:						
MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS, NUTS AND WASHERS:						
MANUFACTURER'S CERTIFICATE	_	Х				
INSPECTION OF HIGH-STRENGTH BOLTING:	-	Х	AISC 360, SECTION N5.6			
MATERIAL VERIFICATION OF STRUCTURAL STEEL AND COLD-FORMED STEEL DECK:	-	Х				
IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS	_	×	AISC 360, N5.7			
INSPECTION OF WELDING:			SHOP AND FIELD			
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	_	Х				
VERIFY EXCAVATIONS	_	Х				
CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS	_	X				
USE OF MATERIALS, DENSITIES AND LIFT THICKNESSES	Х	_	DURING PLACEMENT AND COMPACTION			
OBSERVE SUBGRADE AND SITE PREPARED PROPERLY	_	Х	PRIOR TO PLACEMENT OF COMPACTED FILL			

#### **INSPECTION SCHEDULE NOTES**

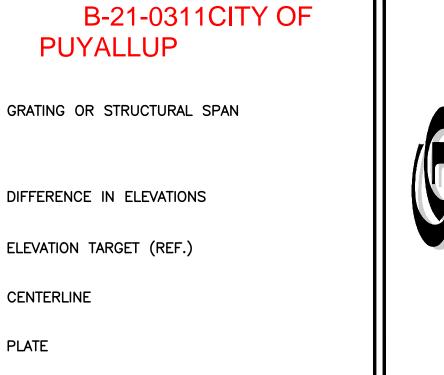
- ITEMS MARKED WITH AN "X" REQUIRE INSPECTION BY A SPECIAL INSPECTOR APPROVED BY THE BUILDING OFFICIAL.
- 2. ITEMS MARKED "NA" ARE NOT APPLICABLE TO THIS PROJECT.
- 3. CI = CONTINUOUS INSPECTION DURING PROGRESS OF WORK BY SPECIAL
- 4. PI = PERIODIC INSPECTION BY SPECIAL INSPECTOR AS REQUIRED TO CONFIRM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

## SUPPLEMENTAL STRUCTURAL ABBREVIATIONS:

AFF AL APPRY APPRH BEM BOST GET CONT CTS BEN	ABOVE FINISH FLOOR ALUMINUM APPROXIMATE ARCHITECTURAL AT BELOW BEAM BOUNDRY NAIL BOTTOM OF BOTTOM OF SLAB BOTTOM BEARING CONTROLLED DENSITY FILL CAST IN PLACE CONTROL JOINT CONSTRUCTION CONTINUOUS COUNTERSINK DEPTH PENNY (NAILS) DOUBLE DIAPHRAGM DITTO (DO OVER) DRAWING DOWEL EACH EACH FACE EXPANSION JOINT EMBED(MENT) EDGE NAIL ENGINEER EQUAL EACH SIDE EXISTING MEMBER	FRM'G FS G ASR HDGR FT G HADR IF IN STAT GRAMAT MATE OF A SPET TO THE STATE OF THE SPET TO THE SPET TO THE SPET TO THE SPET TO THE	FRAMING FAR SIDE FOOTING GAUGE HEADER ANCHOR STUDS HEADER HANGER INTERNATIONAL BUILDING CODE INSIDE FACE INTERIOR JOIST LATERAL LEDGER LONG LEG HORIZONTAL LONG LEG VERTICAL LAG SCREW MASONRY MATERIAL MANUFACTURER METAL NEW MEMBER NEAR SIDE OVERHANG ORIENTATE (ION) PARALLEL PERPENDICULAR PRESSURE TREAT(ED) QUANTITY REFERENCE REINFORCEMENT SHEET SHEATHING SIMILAR SPACING	T TN TO TOS TRANS TYP UNO VFY WP	TOP TOE NAIL TOP OF TOP OF SLAB TRANSVERSE TYPICAL UNLESS NOTED OTHERWISE VERIFY WORK POINT
EN ENG EQ	EDGE NAIL ENGINEER EQUAL	REINF SHT SHTG	REINFORCEMENT SHEET SHEATHING		
ES EXIST EXT FFE FN					
FND FO	FOUNDATION FACE OF	STRUC SYM	STRUCTURE(AL) SYMMETRICAL		

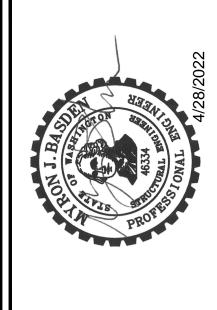
# STRUCTURAL LEGEND PUYALLUP GRATING OR STRUCTURAL SPAN DIFFERENCE IN ELEVATIONS ELEVATION TARGET (REF.)

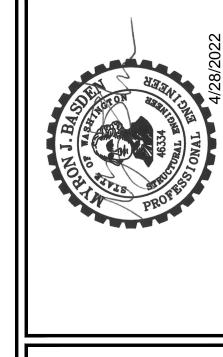
PLATE





APPROVED:	DATE APPD	DATE
CHECKED:		
DRAWN:		
DATE: APRIL		





CITY OF PUYALLUP

**APPROVED** 

CITY ENGINEER

CITY OF PUYALLUP

NOTE: THIS APPROVAL EXPIRES ON THE DATE SHOWN. IF CONSTRUCTION HAS NOT STARTED BY THE EXPIRATION DATE, PLANS MUST BE RESUBMITTED FOR REVIEW AND APPROVAL.

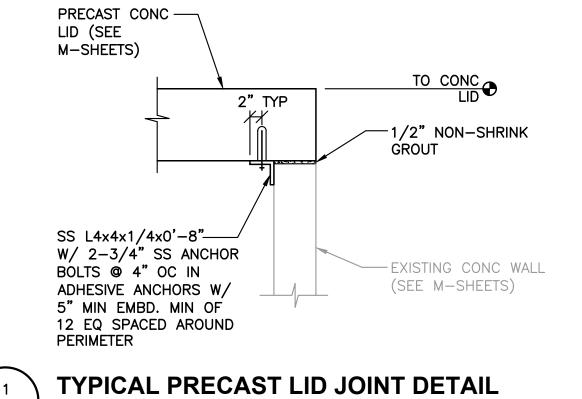
THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS

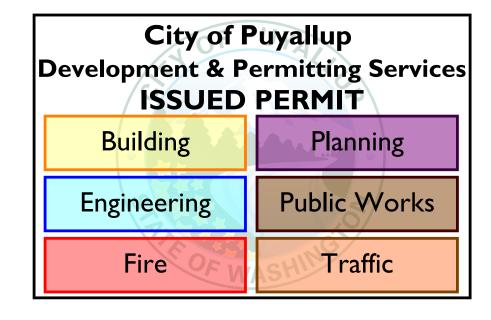
FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE CITY ENGINEER.

APPROVED 4/26/2022

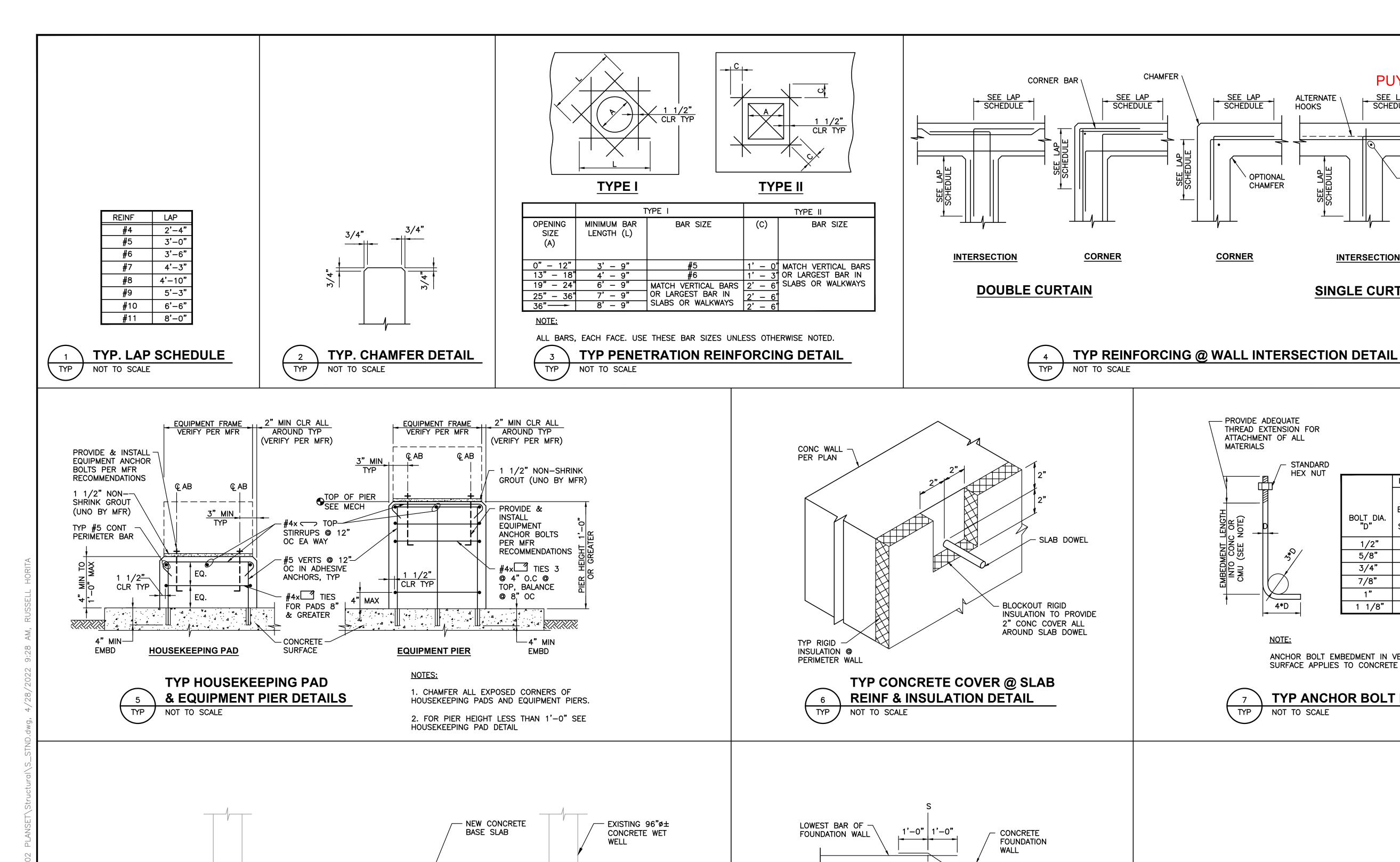
EXPIRATION 12/31/2023 DATE:

SHEET: JOB NO.: 20503 DWG:S\_STND





TWO INCHES AT FULL SCALE. IF NOT, SCALE ACCORDINGLY



#5 @ 12" OC EA WAY,

EMBD, TYP

NOTE: SEE M-SHEETS FOR BALANCE

**WET WELL BASE SLAB DETAIL** 

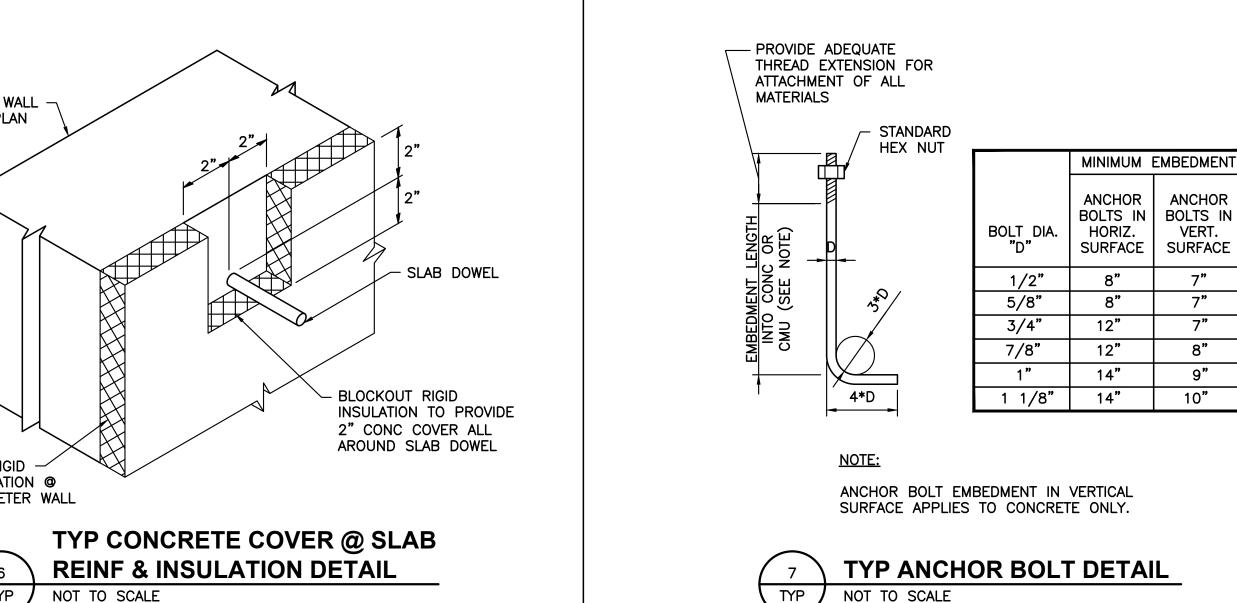
OF INFORMATION.

NOT TO SCALE

DRILL AND EPOXY 3" MIN

#4x @ 24" OC GRID, — DRILL AND EPOXY 3" MIN

EMBD, TYP



1'-0" 1'-0"

"1.5H"

**FOOTING AT CONCRETE** 

**FOUNDATION WALL DETAIL** 

**TYP STEPPED** 

NOT TO SCALE

\$

DWLS, MATCH -

FTG REINF

TYP

MIN

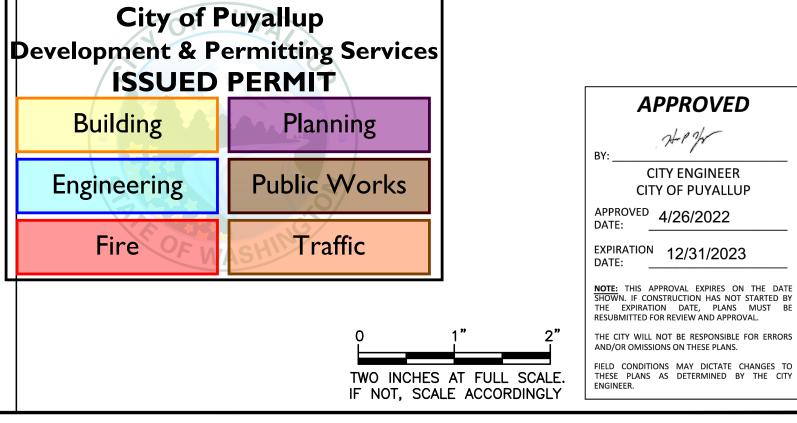
E E

FOUNDATION

GRAVEL

CITY OF SHEET: JOB NO.: 20503

DWG:S\_STND



B-21-0311CITY OF

SEE LAP SCHEDULE

(OPTIONAL)

CORNER

PUYALLUP

PROVIDE WALL

VERTICAL BAR

CORNER BAR

SEE LAP SCHEDULE

**INTERSECTION** 

**SINGLE CURTAIN** 

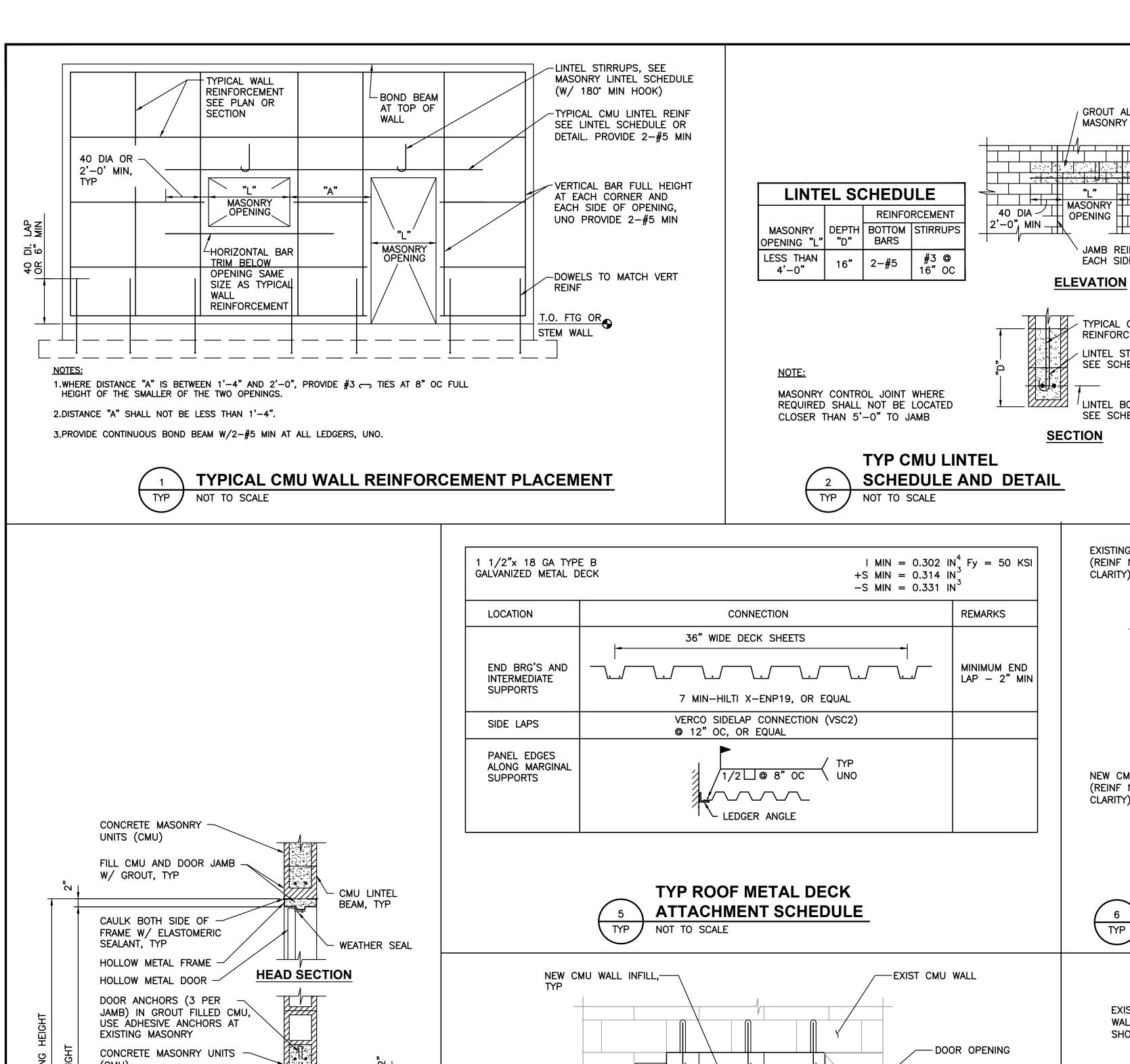
SEE LAP SCHEDULE

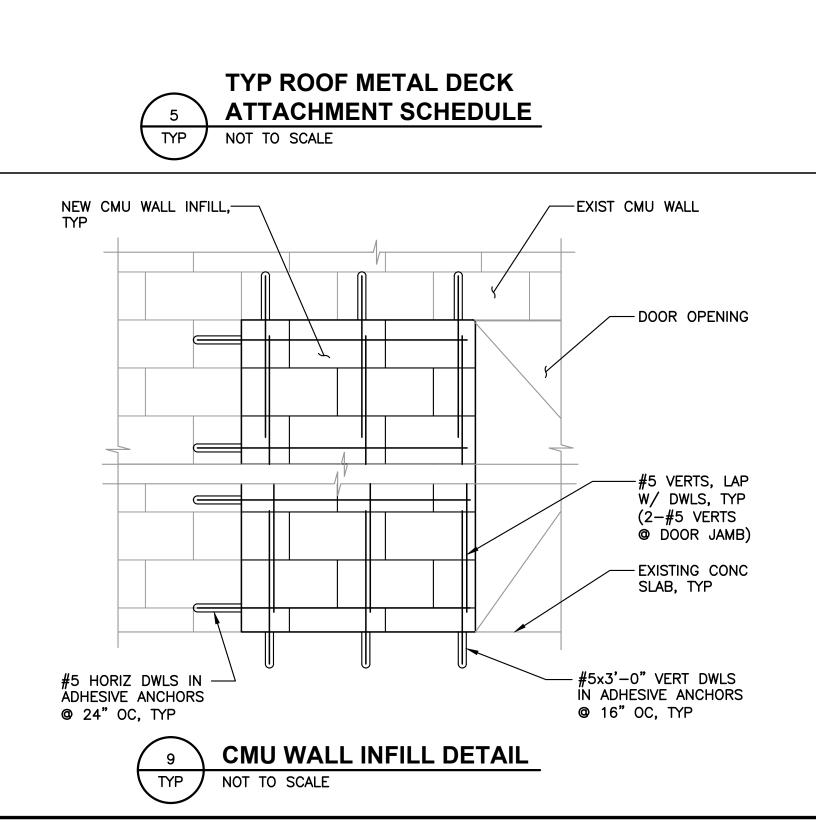
**CORNER** 

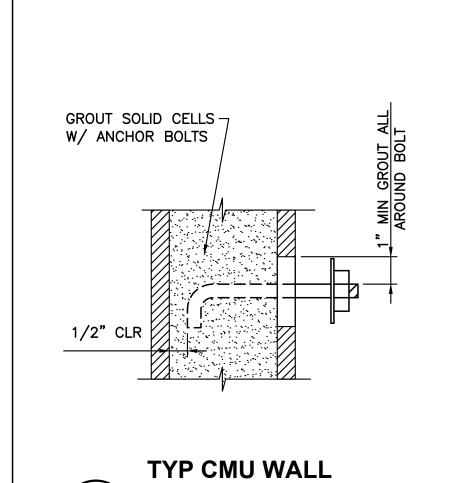
\ OPTIONAL

CHAMFER

ALTERNATE HOOKS







NOT TO SCALE

ADHESIVE ANCHORS

@ 40" OC, LAP W/

HORIZ WALL REINF

TYP

**ANCHOR BOLT DETAIL** 

CONC WALL PER PLAN

TYP RIGID INSULATION @ PERIMETER WALL

GROUT ALL CELLS OF

MASONRY LINTEL SOLID

JAMB REINF FULL HEIGHT

EACH SIDE OF OPENING

TYPICAL CMU WALL

REINFORCEMENT

LINTEL STIRRUPS SEE SCHEDULE

SEE SCHEDULE

CLARITY)

LINTEL BOTTOM BARS,

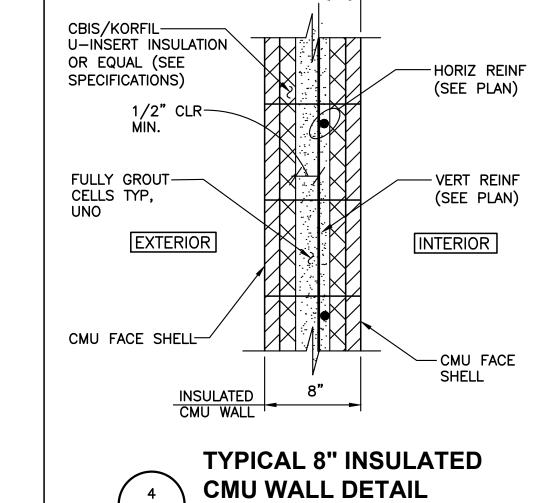
EXISTING CMU WALL, TYP-

(REINF NOT SHOWN FOR

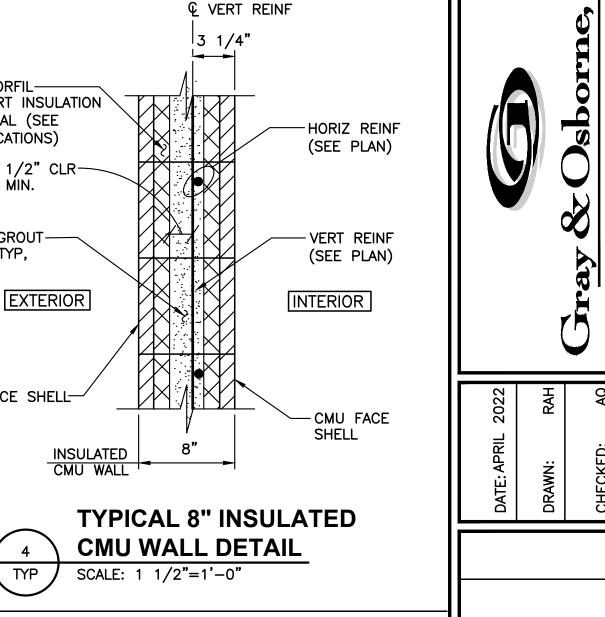
NEW CMU WALL, TYP-

CLARITY)

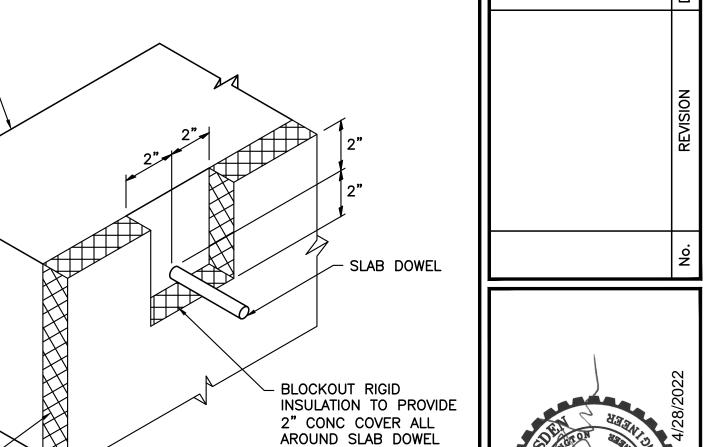
(REINF NOT SHOWN FOR



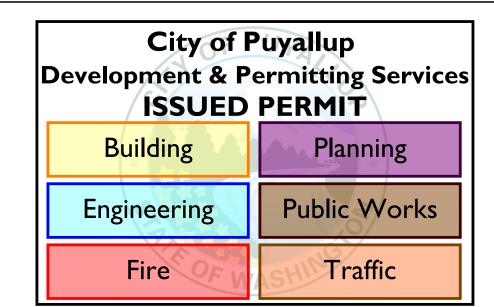
PUYALLUP

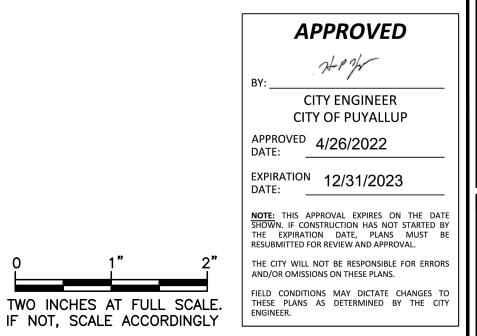


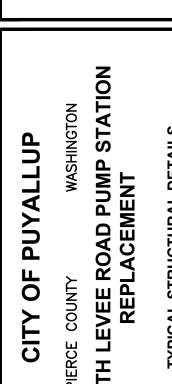
B-21-0311CITY OF

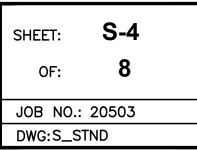


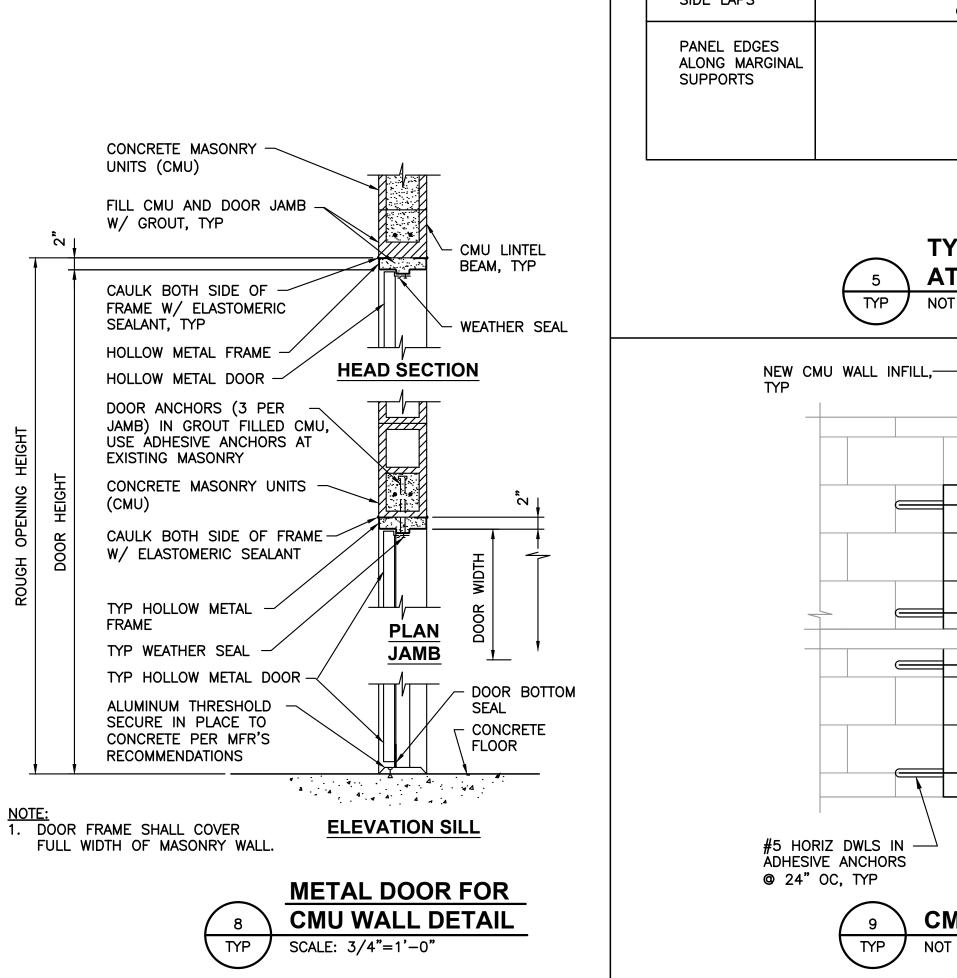


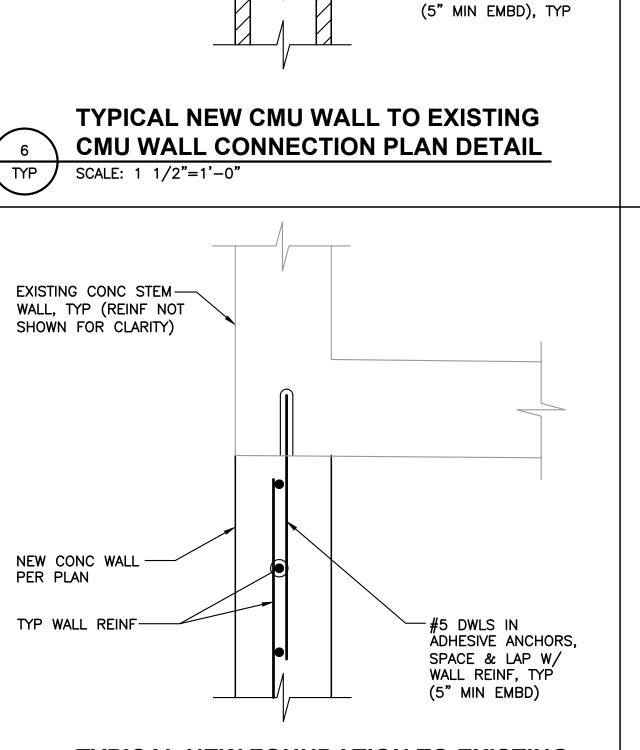






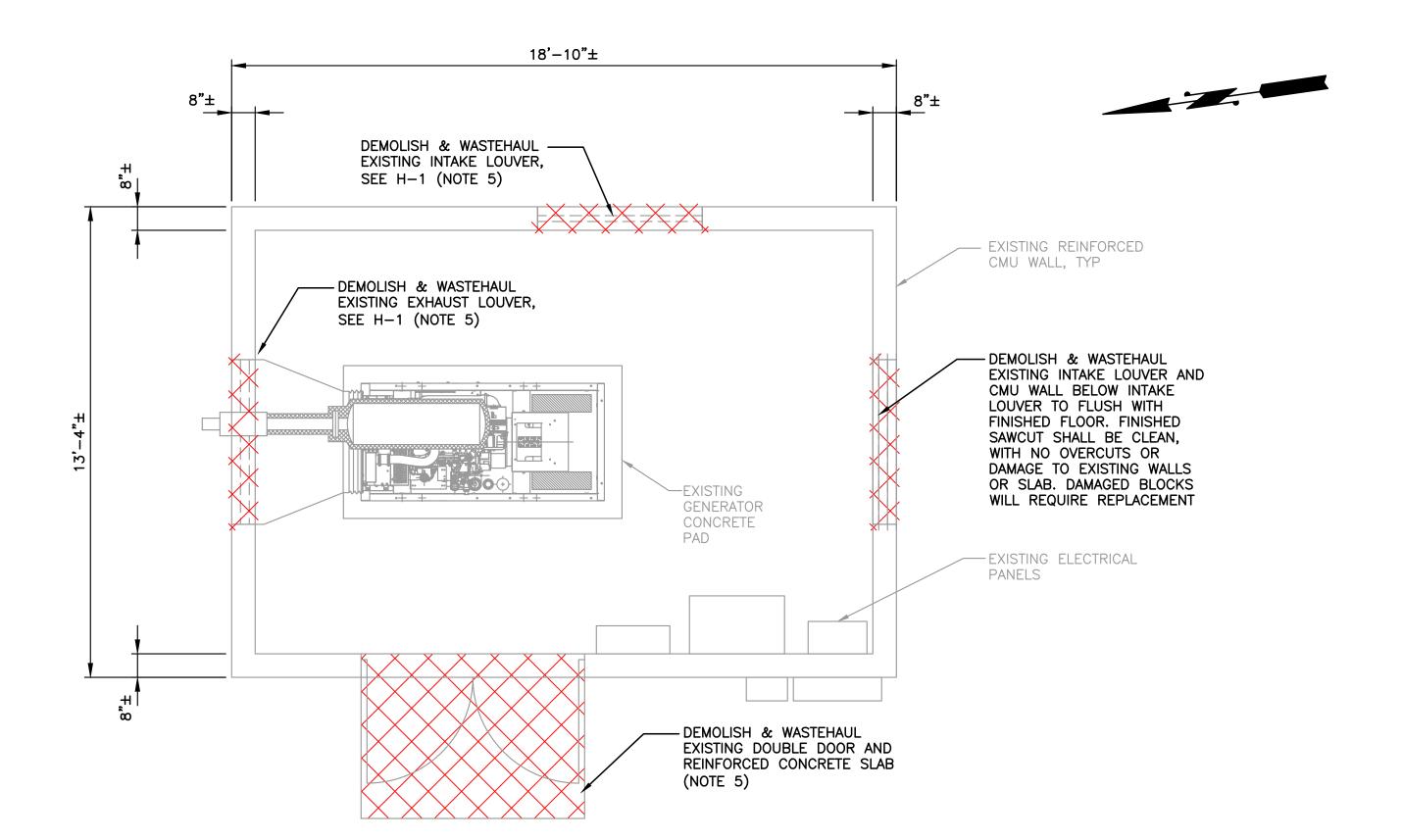






**TYPICAL NEW FOUNDATION TO EXISTING FOUNDATION CONNECTION PLAN DETAIL** SCALE: 1 1/2"=1'-0"

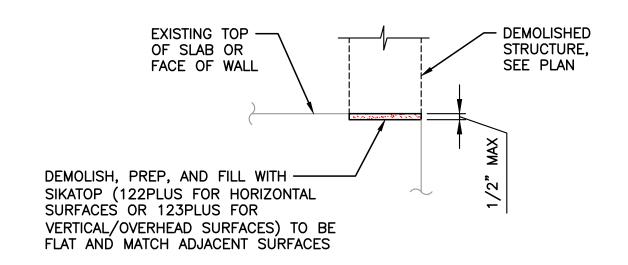
## **GENERATOR BUILDING ROOF DEMOLITION PLAN** SCALE: 3/8"=1'-0"



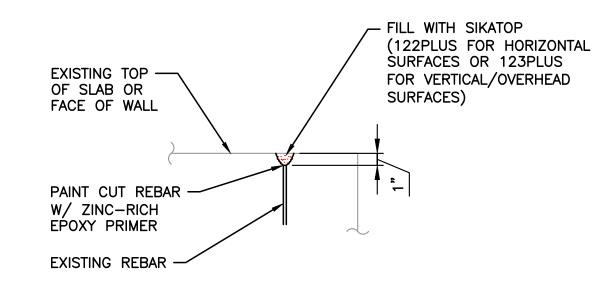
## **GENERATOR BUILDING FLOOR DEMOLITION PLAN**

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

## B-21-0311CITY OF PUYALLUP



## TYPICAL DEMOLITION BOUNDARY DETAIL



#### TYPICAL REBAR DEMOLITION DETAIL

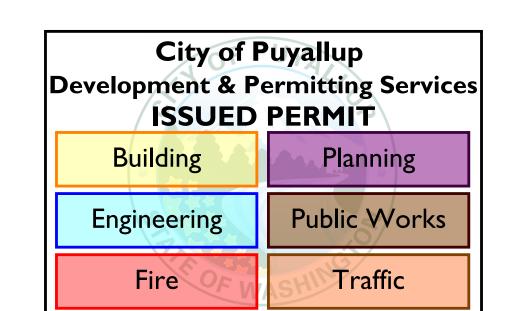
## **LEGEND:**



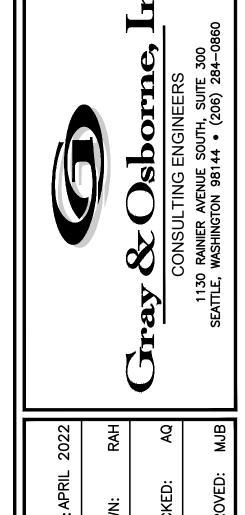
DENOTES ITEMS TO BE DEMOLISHED BY THE CONTRACTOR IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS.

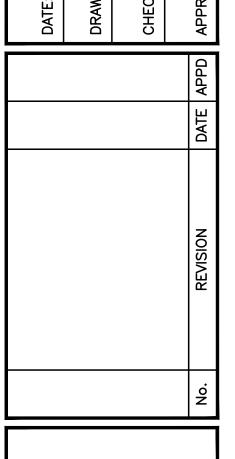
#### NOTES:

- 1. 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 THE ATTENTION OF THE ENGINEER IMMEDIATELY.
- 3. EXISTING CONDITIONS AND DIMENSIONS ARE BASED ON BEST AVAILABLE INFORMATION. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING DIMENSIONS PRIOR TO THE START OF CONSTRUCTION.
- 4. SEE M-SHEETS FOR ADDITIONAL DEMOLITION INFORMATION.
- DO NOT CUT OR DAMAGE EXISTING CMU REINFORCING AROUND OPENINGS.











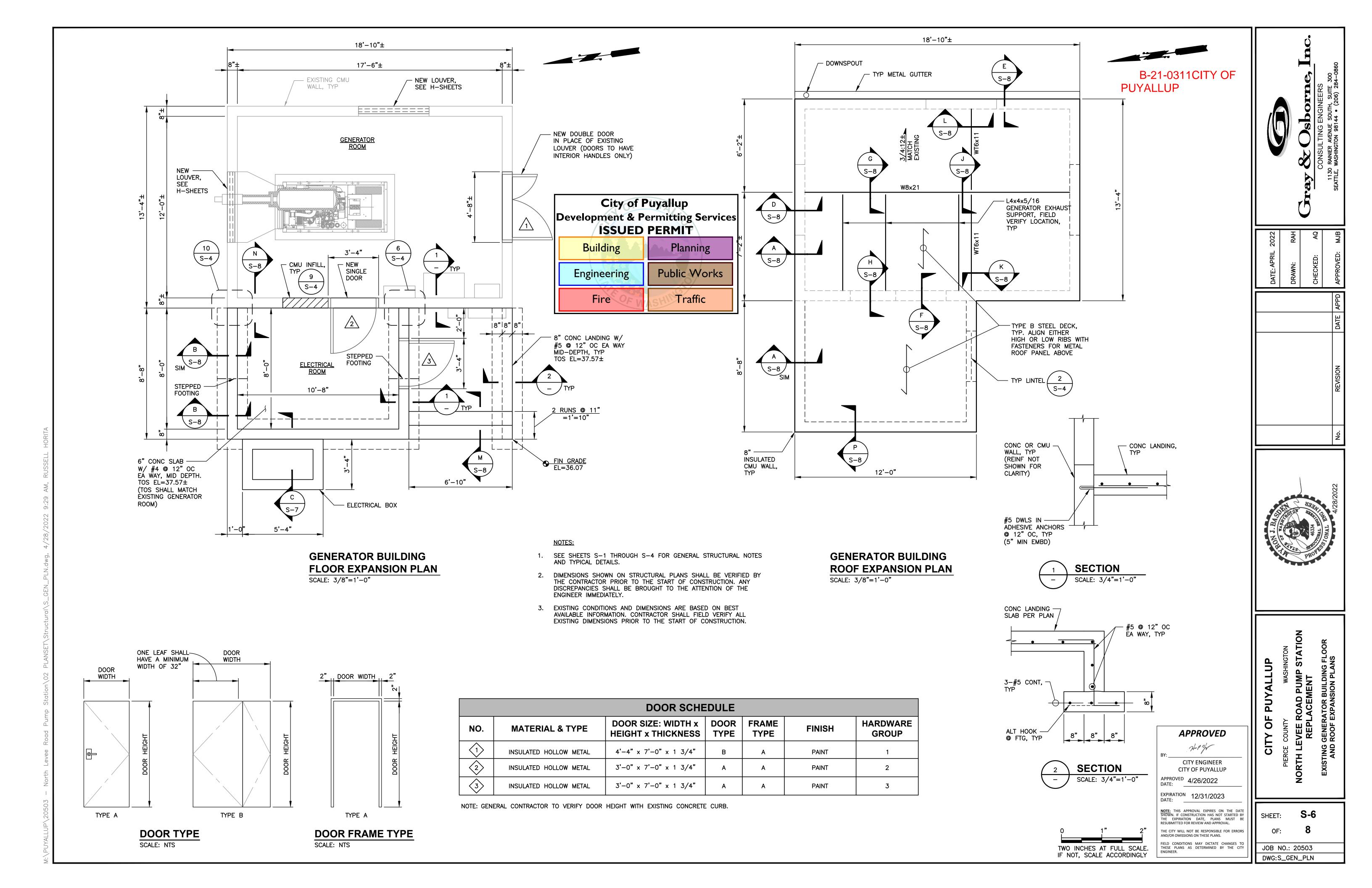
EXISTING GENERATOR BUILDING FL AND ROOF DEMOLITION PLANS

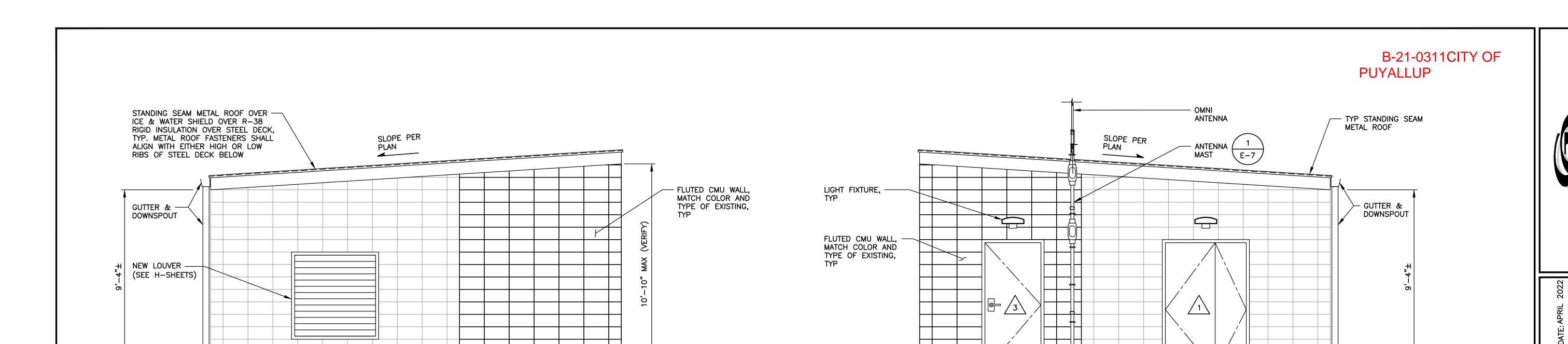
PUYALLUP CITY OF RTH

SHEET:

JOB NO.: 20503 DWG:S\_GEN\_PLN

TWO INCHES AT FULL SCALE. IF NOT, SCALE ACCORDINGLY





FINISHED -

GRADE

- FINISHED

GRADE

∕--4**"**±

FOOTING

4"± CURB—

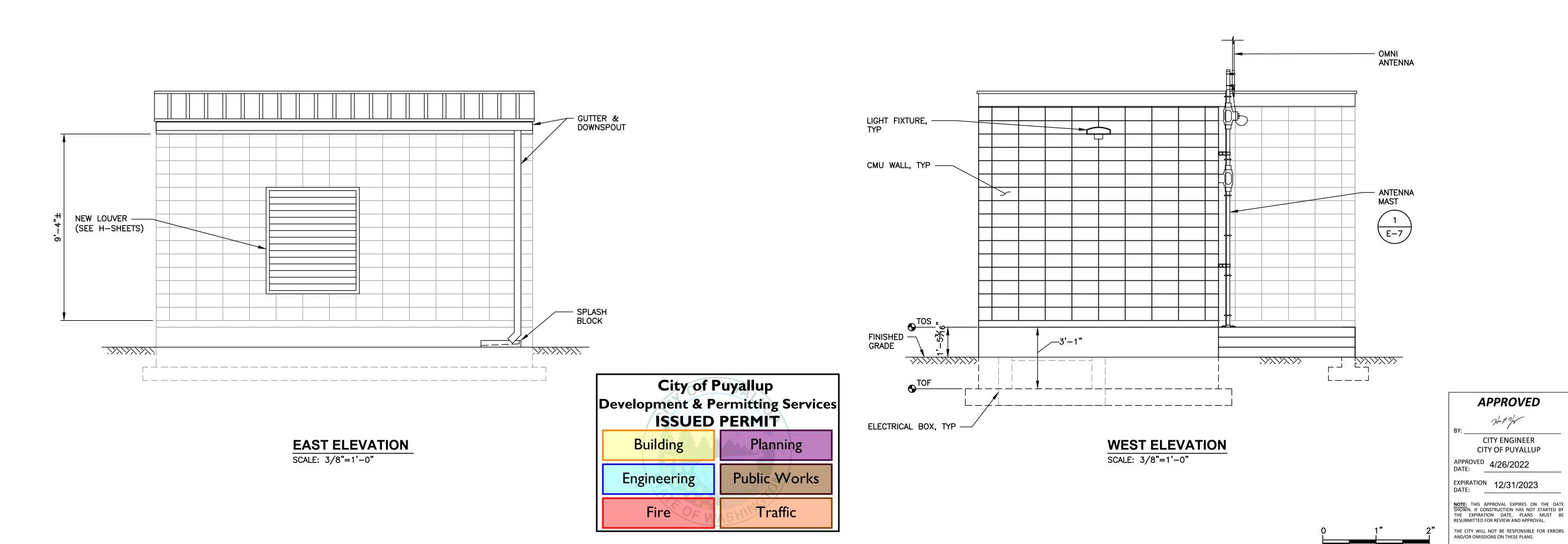
BLOCK

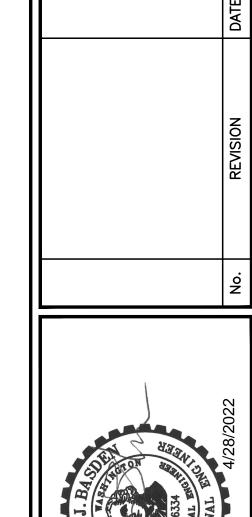
**NORTH ELEVATION** 

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

ABOVE TOS

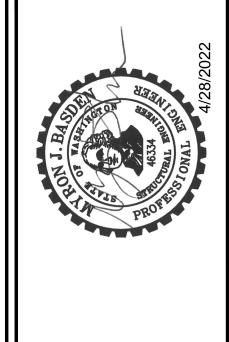
#### **SOUTH ELEVATION** SCALE: 3/8"=1'-0"





- SPLASH BLOCK

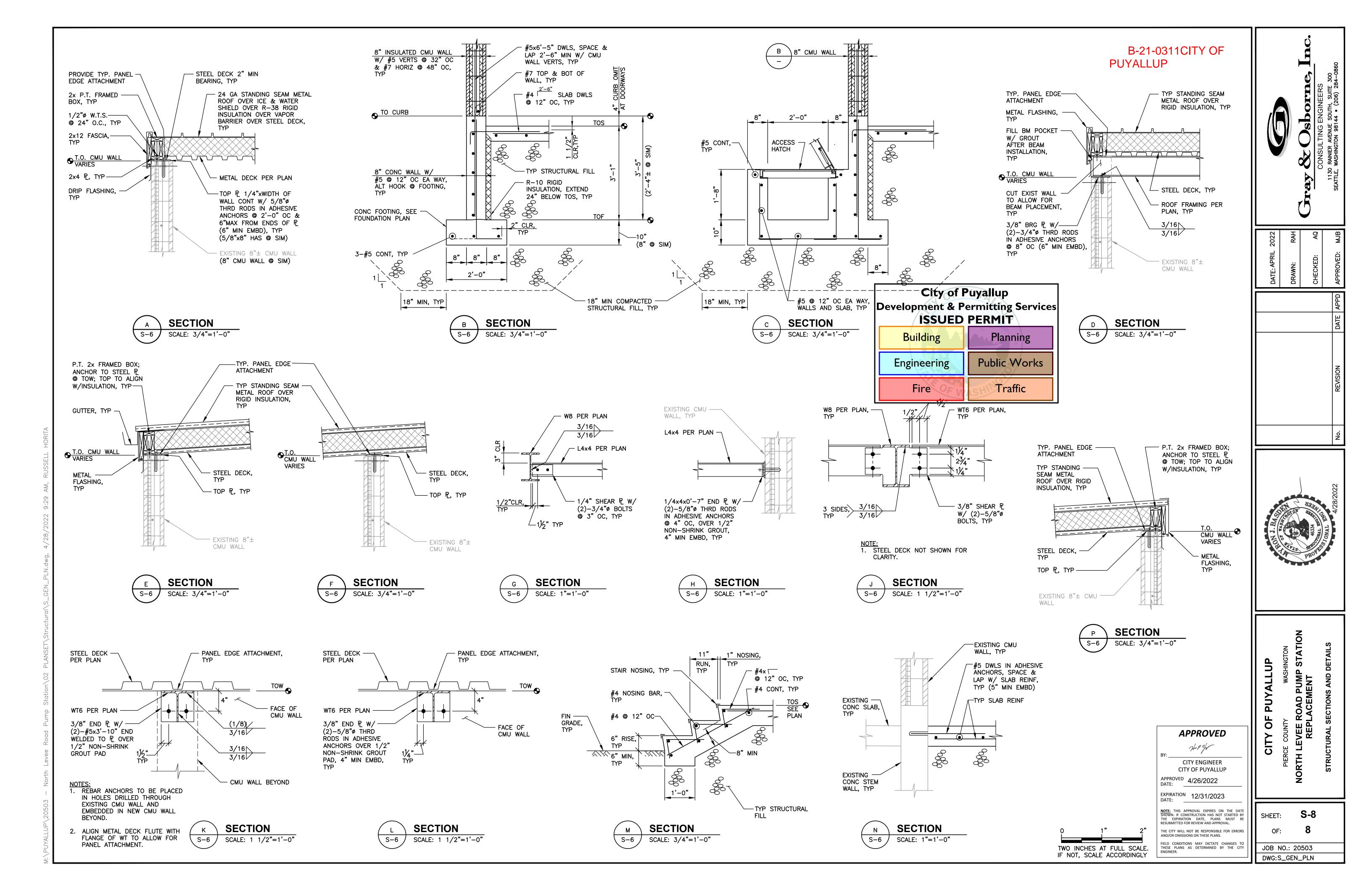
TWO INCHES AT FULL SCALE. IF NOT, SCALE ACCORDINGLY



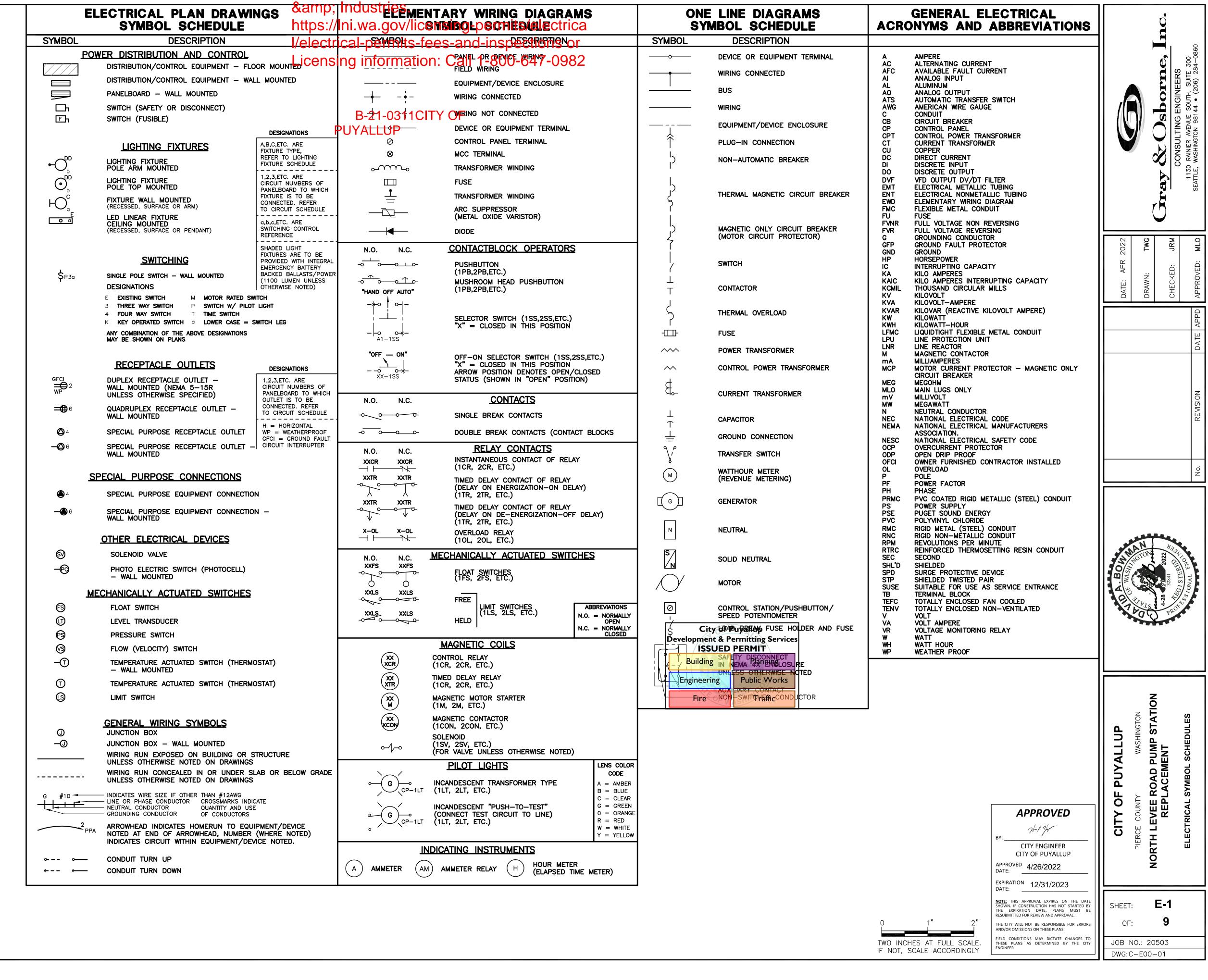
CITY OF PUYALLUP

SHEET: JOB NO.: 20503

DWG:S\_GEN\_PLN



# Washington State Department of Labor

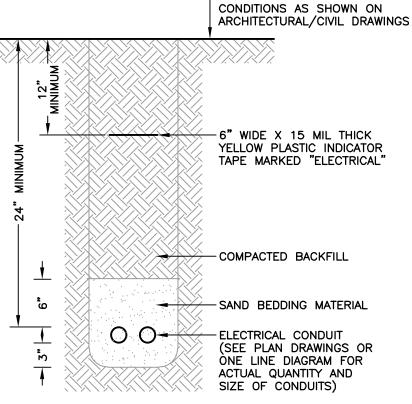


#### **ELECTRICAL GENERAL NOTES**

- GO1 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
  - EQUIPMENT OR DEVICES THAT ARE EXISTING TO REMAIN (AND TO BE PRESERVED AND PROTECTED) WHERE SHOWN ON REVISED/MODIFICATIONS ELECTRICAL SHEETS.
- GO2 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.
- GO3 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).
- GO4 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.
- GO5 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.
- GO6 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
- GO7 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.
- GO8 SALVAGE EQUIPMENT, MATERIALS AND DEVICES TO OWNER PER REQUIREMENTS OF DIVISION 1, SECTION 01900 UNLESS OTHERWISE NOTED ON DRAWINGS.
- GO9 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		LAM QTY		CATALOG NO	REMARKS
В	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	PROIVDE 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	
СС	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				

## B-21-0311CITY OF **PUYALLUP**



-FINISH GRADE TO

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

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

-POLE CAP

LIGHT FIXTURE

SECTION OF POLE

-BOLT COVER

-SLOPE BASE

ON CËNTER

- 18" ANCHOR BOLT TIED

18" ROUND CEMENT

WITH #8 GAUGE WIRE 12"

CONCRETE ANCHOR BASE

<del>777</del> CONDUIT

SCALE: NONE

NOT SHOWN.

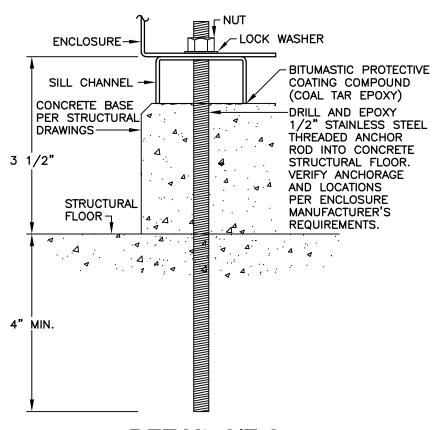
WITH COVER-

GROUT BASEPLATE

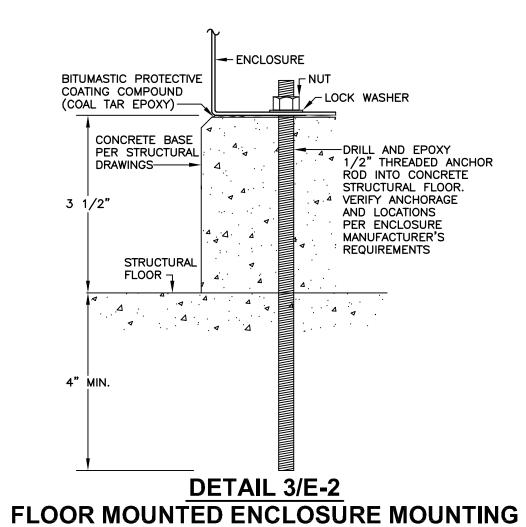
WITH NON-SHRINK

CAULK AT EDGE-

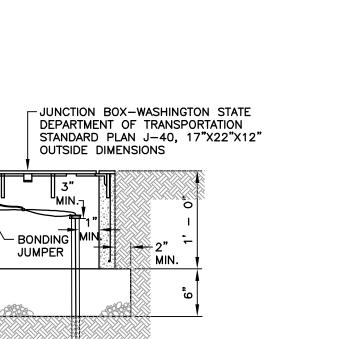
GROUT AND SILICON



DETAIL 2/E-2 FLOOR MOUNTED ENCLOSURE MOUNTING WITH CHANNEL SCALE: NONE

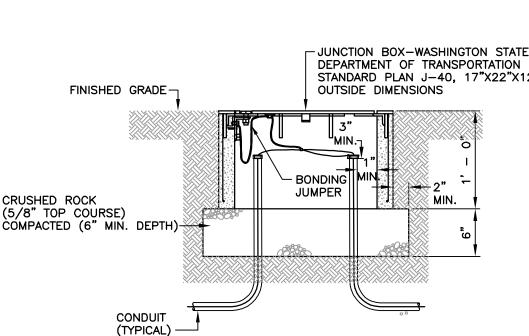


SCALE: NONE



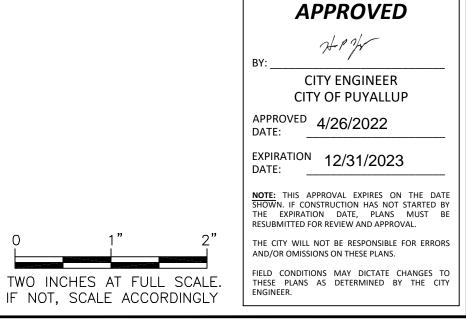
#### DETAIL 5/E-2 DETAIL 6/E-2 **AREA LIGHT**

SCALE: NONE NOTE: CONDUITS ARE SHOWN DIAGRAMATICALLY. SEE PLAN DRAWINGS FOR ACTUAL CONDUIT QUANTITIES,

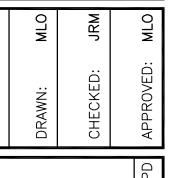


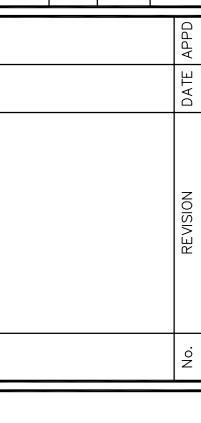
# STANDARD LOCKING JUNCTION BOX

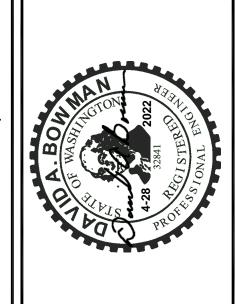
DEPTH, SIZES AND ARRANGEMENTS. TWO INCHES AT FULL SCALE.





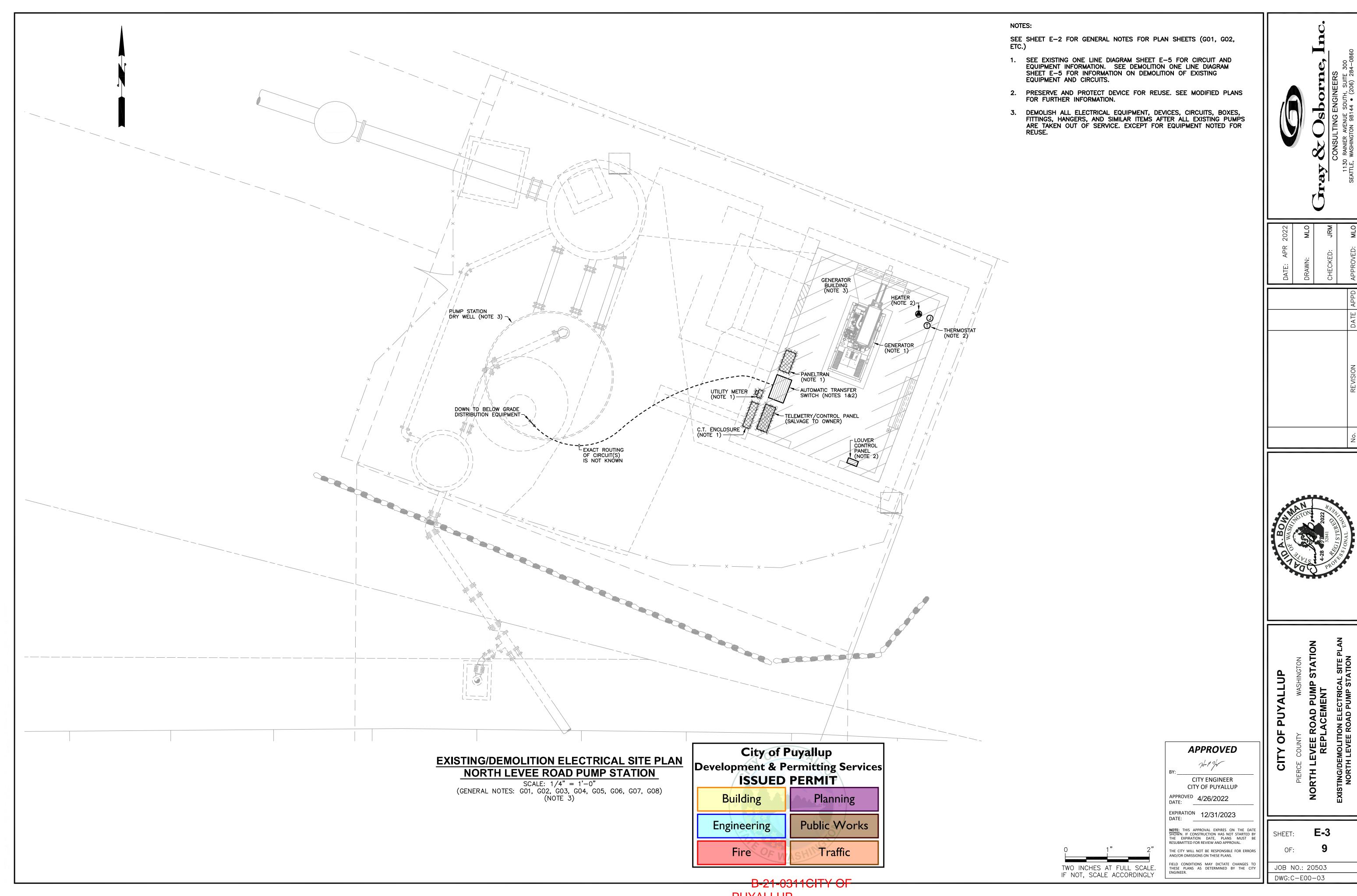




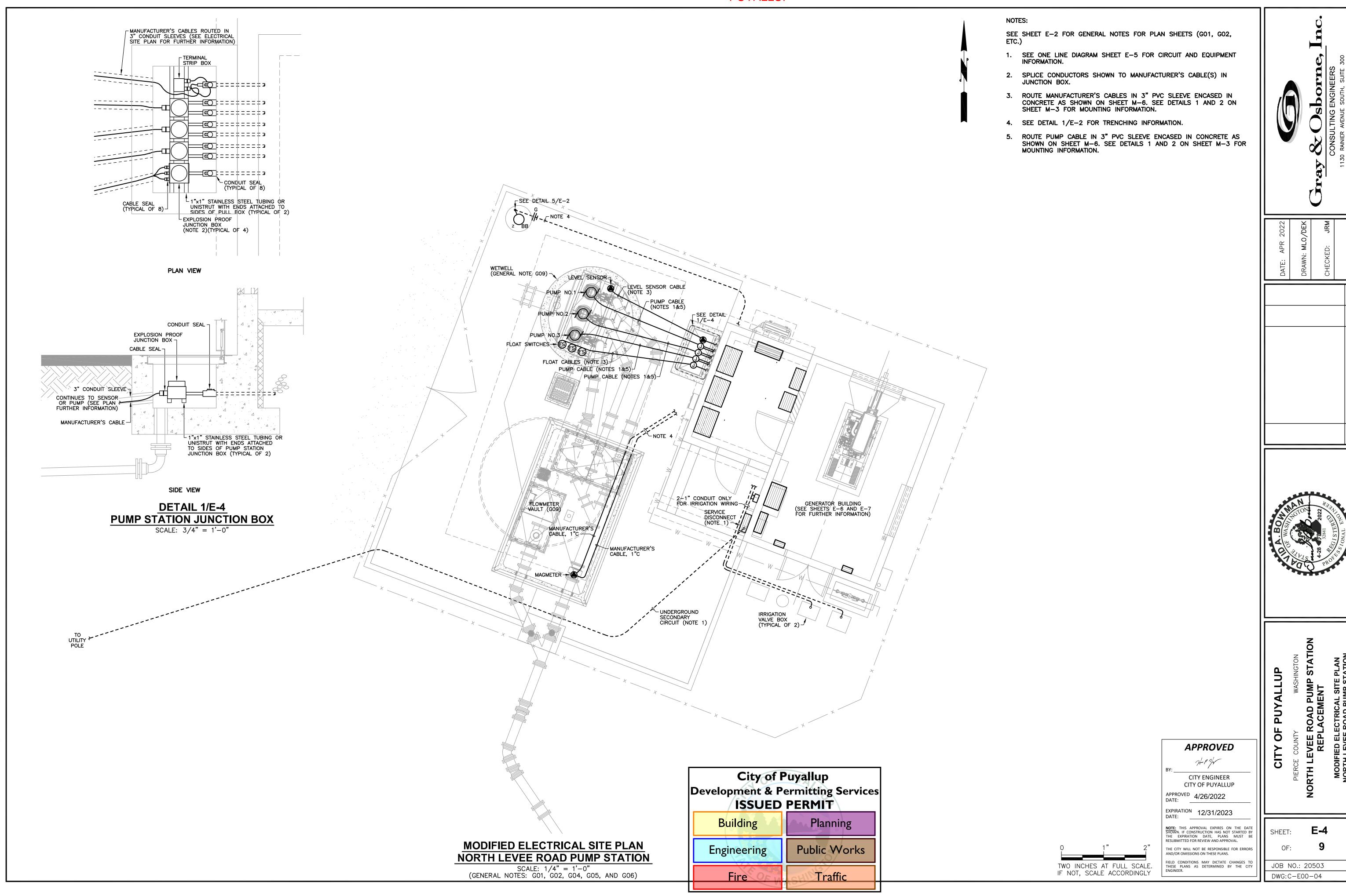


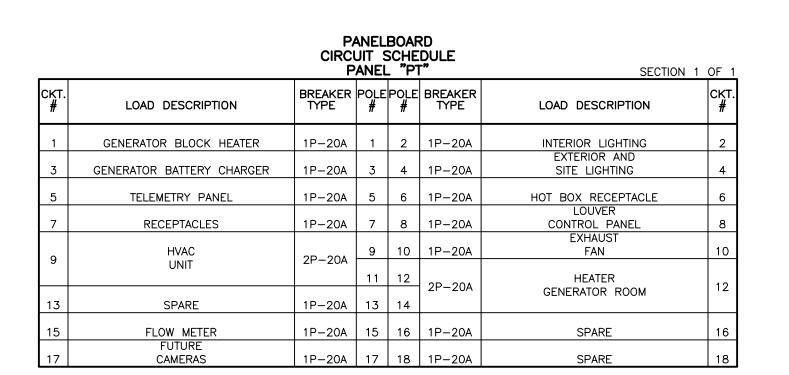
VEE R REPL 0 CITY

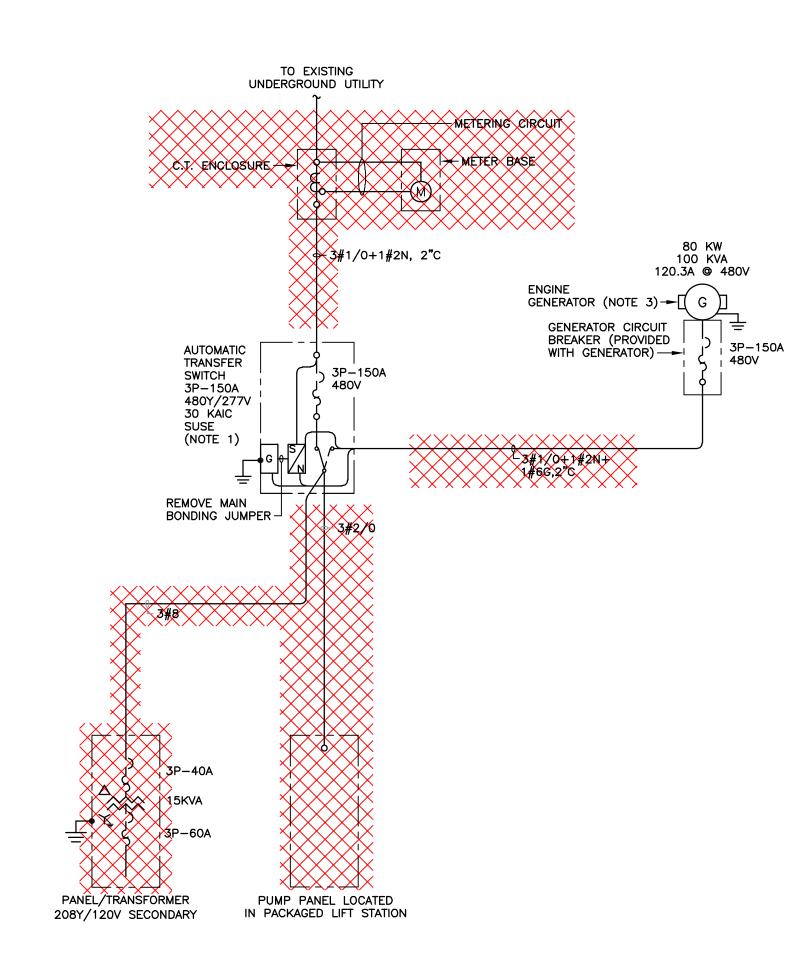
E-2 SHEET: JOB NO.: 20503 DWG:C-E00-02

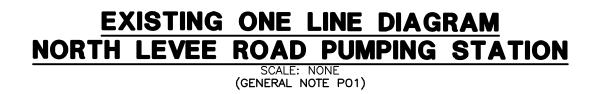


**PUYALLUP** 



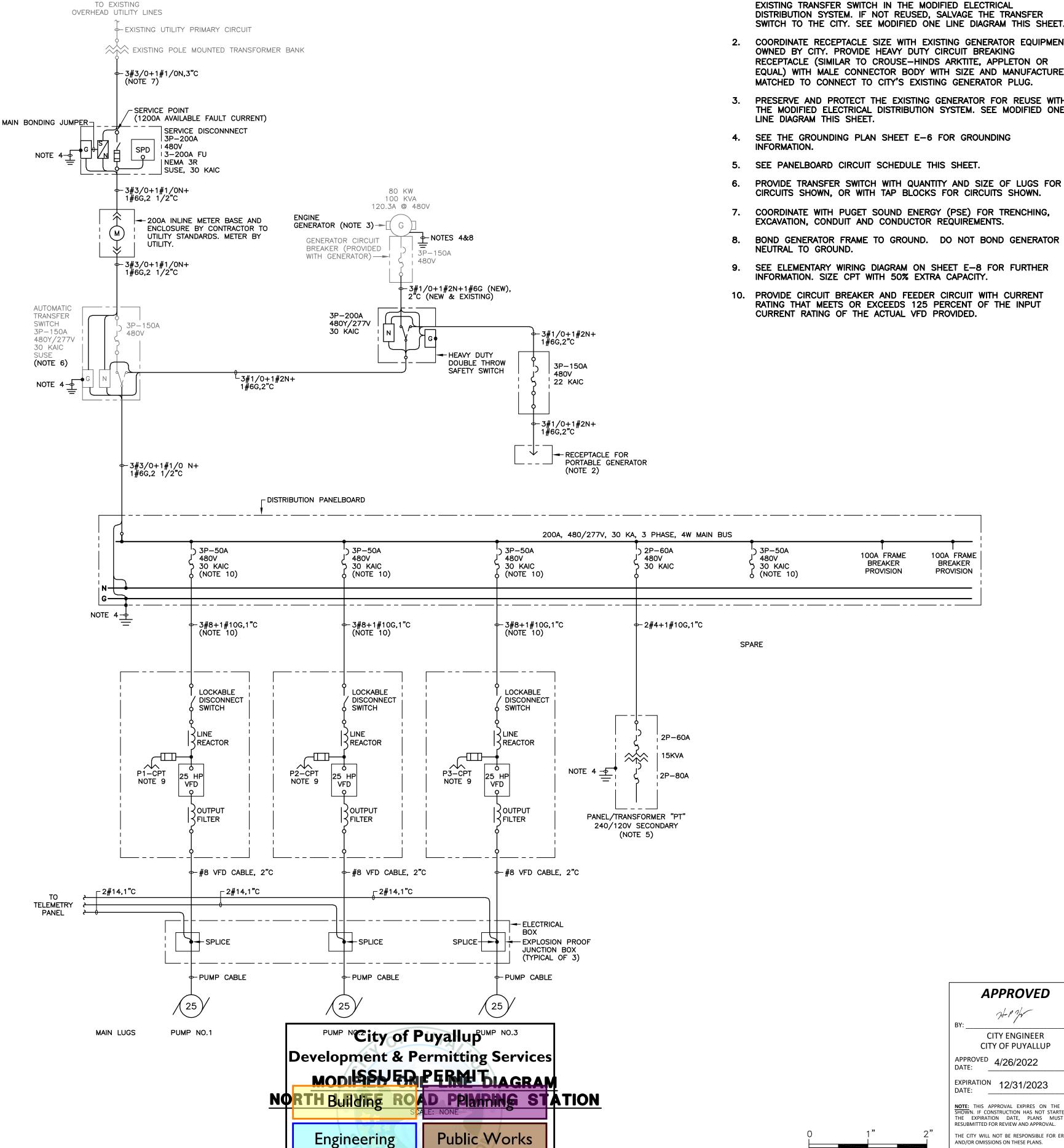






#### NOTES:

- 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.
- 2. COORDINATE RECEPTACLE SIZE WITH EXISTING GENERATOR EQUIPMENT OWNED BY CITY. PROVIDE HEAVY DUTY CIRCUIT BREAKING RECEPTACLE (SIMILAR TO CROUSE-HINDS ARKTITE, APPLETON OR EQUAL) WITH MALE CONNECTOR BODY WITH SIZE AND MANUFACTURER MATCHED TO CONNECT TO CITY'S EXISTING GENERATOR PLUG.
- 3. PRESERVE AND PROTECT THE EXISTING GENERATOR FOR REUSE WITH THE MODIFIED ELECTRICAL DISTRIBUTION SYSTEM. SEE MODIFIED ONE
- 4. SEE THE GROUNDING PLAN SHEET E-6 FOR GROUNDING
- CIRCUITS SHOWN, OR WITH TAP BLOCKS FOR CIRCUITS SHOWN.
- EXCAVATION, CONDUIT AND CONDUCTOR REQUIREMENTS.
- NEUTRAL TO GROUND.
- 9. SEE ELEMENTARY WIRING DIAGRAM ON SHEET E-8 FOR FURTHER
- 10. PROVIDE CIRCUIT BREAKER AND FEEDER CIRCUIT WITH CURRENT RATING THAT MEETS OR EXCEEDS 125 PERCENT OF THE INPUT



Traffic

**APPROVED** CITY ENGINEER

CITY OF PUYALLUP APPROVED 4/26/2022

TWO INCHES AT FULL SCALE.

IF NOT, SCALE ACCORDINGLY

E-5 SHEET: OF: JOB NO.: 20503 DWG:C-E00-05

OF

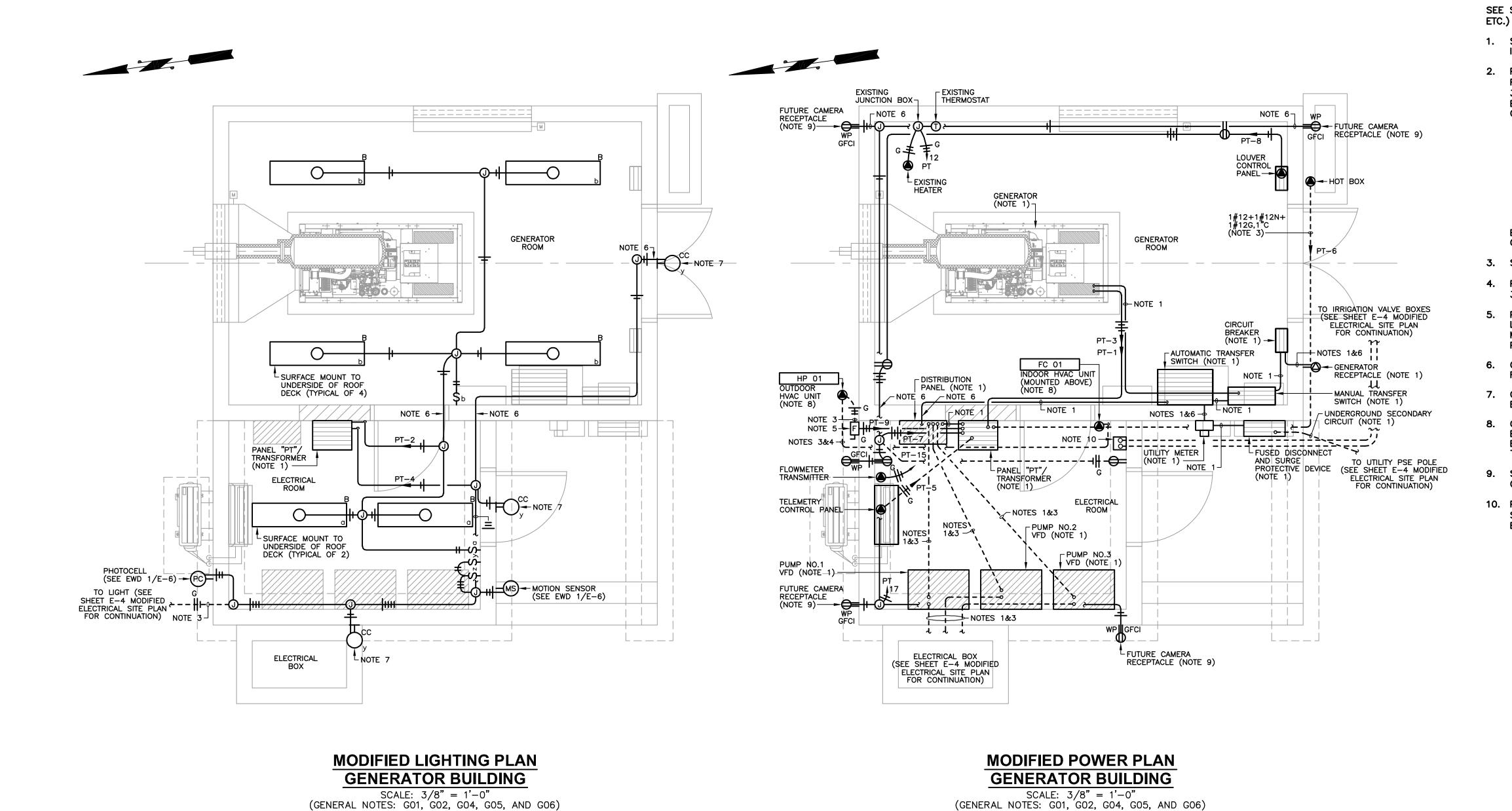
CITY

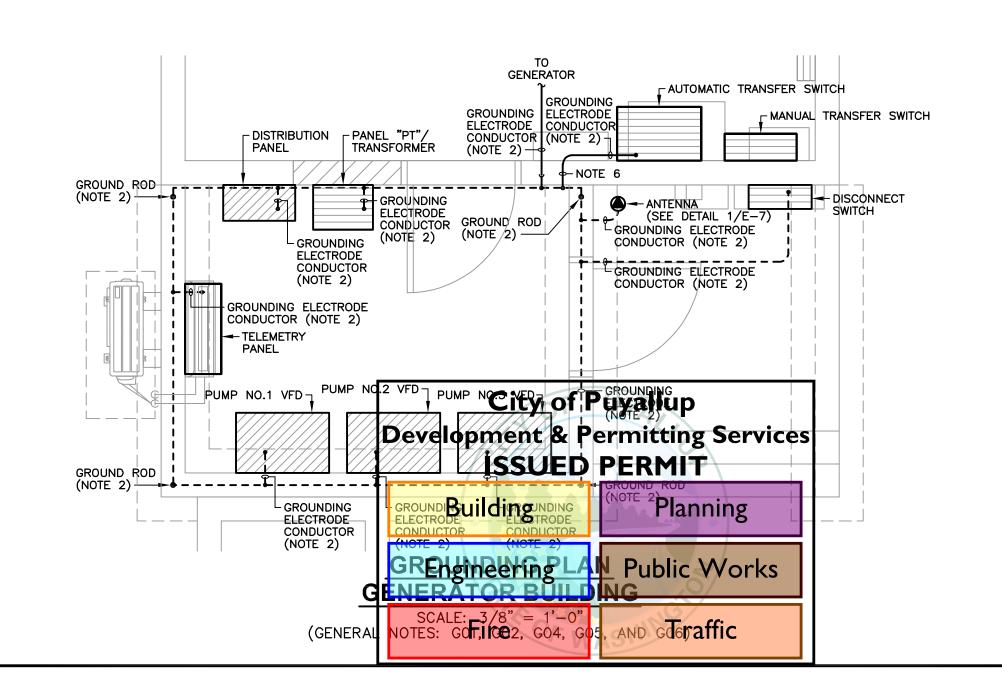
EVEE ROAD PUMP REPLACEMENT



EXPIRATION 12/31/2023

NOTE: THIS APPROVAL EXPIRES ON THE DATE SHOWN. IF CONSTRUCTION HAS NOT STARTED BY THE EXPIRATION DATE, PLANS MUST BE RESUBMITTED FOR REVIEW AND APPROVAL. THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS





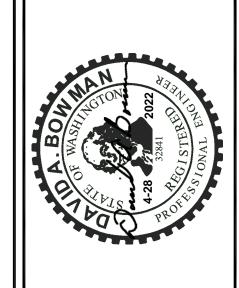
#### NOTES:

SEE SHEET E-2 FOR GENERAL NOTES FOR PLAN SHEETS (GO1, GO2,

- 1. SEE ONE LINE DIAGRAM SHEET E-5 FOR CIRCUIT AND EQUIPMENT
- 2. 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 B. PUMP NO.1 VFD

  - C. PUMP NO.2 VFD
  - D. PUMP NO.3 VFD E. AUTOMATIC TRANSFER SWITCH
  - F. TELEMETRY PANEL
  - G. PANEL "PT"
  - H. GENERATOR FRAME
  - I. ANTENNA J. DISTRIBUTION PANEL
  - EXOTHERMICALLY WELD ALL CONNECTIONS. ALL ABOVE GRADE CONDUCTORS SHALL BE IN RGS CONDUIT.
- 3. SEE DETAIL 1/E-2 FOR TRENCHING INFORMATION.
- 4. PROVIDE MANUFACTURER'S RECOMMENDED CONDUCTORS IN 3/4" MINIMUM CONDUIT.
- 5. 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.
- 6. CORE DRILL EXISTING WALL TO INSTALL NEW CONDUIT PER REQUIREMENTS IN CONTRACT SPECIFICATIONS.
- 7. COORDINATE LOCATIONS OF LIGHTING FIXTURES WITH EXTERIOR ELEVATIONS ON STRUCTURAL SHEETS PRIOR TO DEVICE ROUGH-IN.
- 8. COORDINATE EXACT LOCATION OF MECHANICAL EQUIPMENT AND ELECTRICAL CONNECTIONS ON EQUIPMENT WITH MECHANICAL EQUIPMENT INSTALLER AND MECHANICAL SUBMITTAL DRAWINGS PRIOR TO DEVICE ROUGH-IN.
- 9. SURFACE MOUNT RECEPTACLE. MOUNT 6" BELOW TOP OF CMU WALL. COORDINATE EXACT LOCATION WITH ENGINEER IN FIELD.
- 10. PROVIDE TWO 1" CONDUITS FOR USE FOR IRRIGATION CIRCUITS. STUB CONDUITS 24" ABOVE FINISHED FLOOR AND CAP WITH CONDUIT





LEVEE ROAD PUMP REPLACEMENT OF CITY

ED G

SHEET:

JOB NO.: 20503 DWG:C-E00-06

**APPROVED** 

CITY ENGINEER CITY OF PUYALLUP APPROVED 4/26/2022

TWO INCHES AT FULL SCALE.

IF NOT, SCALE ACCORDINGLY

EXPIRATION 12/31/2023 NOTE: THIS APPROVAL EXPIRES ON THE DATE SHOWN. IF CONSTRUCTION HAS NOT STARTED BY THE 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 T THESE PLANS AS DETERMINED BY THE CIT

LIGHTING FIXTURE (SHOWN AS SWITCHLEG 'z' ON PLANS) PHOTOCELL (MOUNT ON WALL FACING NORTH)(CLOSED AT 2FC OR LESS OPEN AT 5FC OR MORE) r------\_\_\_\_\_\_ TO TYPE CC LIGHTING FIXTURES ON BUILDING EXTERIOR (SHOWN AS SWITCHLEG 'y' ON PLANS) MOTION SENSOR (MOUNT ON WALL FACING NORTH)(CLOSES ON MOTION, OPENS AFTER TIME DELAY. COORDINATE TIME DELAY WITH OWNER) **EWD 1/E-6** 

SCALE: NONE

120 VAC

FROM PANEL PT

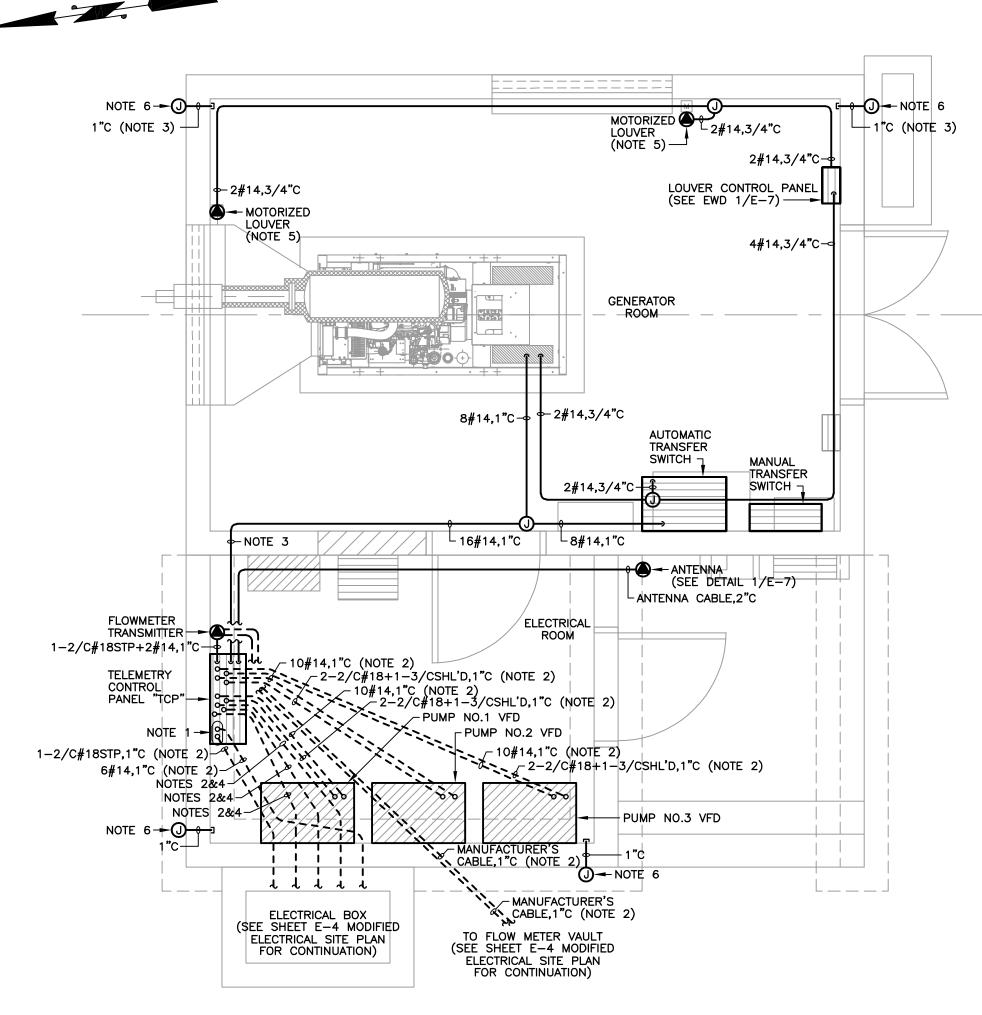
CIRCUIT 4

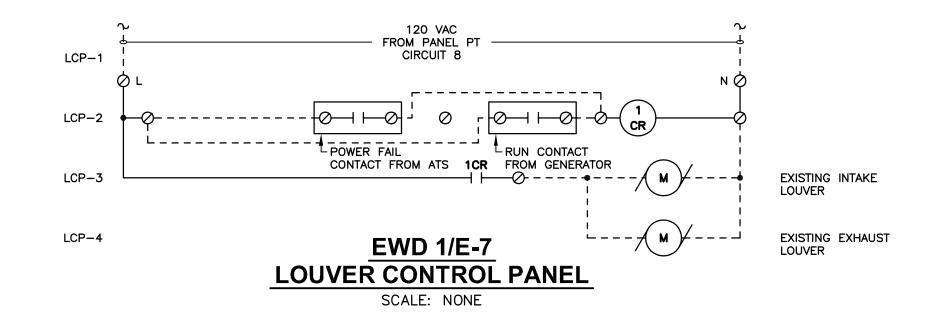
**EXTERIOR LIGHTING CONTROL** 

\_\_\_\_\_\_

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

## B-21-0311CHY OF **PUYALLUP**





#### NOTES:

SEE SHEET E-2 FOR GENERAL NOTES FOR PLAN SHEETS (G01, G02, ETC.)

- 1. ROUTE CONDUITS UP FROM FLOOR INTO INTRINSICALLY SAFE AREA OF TELEMETRY CONTROL PANEL.
- 2. SEE DETAIL 1/E-2 FOR TRENCHING INFORMATION.
- 3. CORE DRILL EXISTING WALL TO INSTALL NEW CONDUIT PER REQUIREMENTS IN CONTRACT SPECIFICATIONS.
- 4. SEE MODIFIED ONE LINE DIAGRAM SHEET E-5 FOR CIRCUIT AND EQUIPMENT INFORMATION.
- 5. 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.
- 6. SURFACE MOUNT DEVICE BOX. MOUNT 6" BELOW TOP OF CMU WALL. COORDINATE EXACT LOCATION WITH ENGINEER IN FIELD. CAP CONDUIT IN ROOM INTERIOR.



DATE APPD
DATE
REVISION
No.

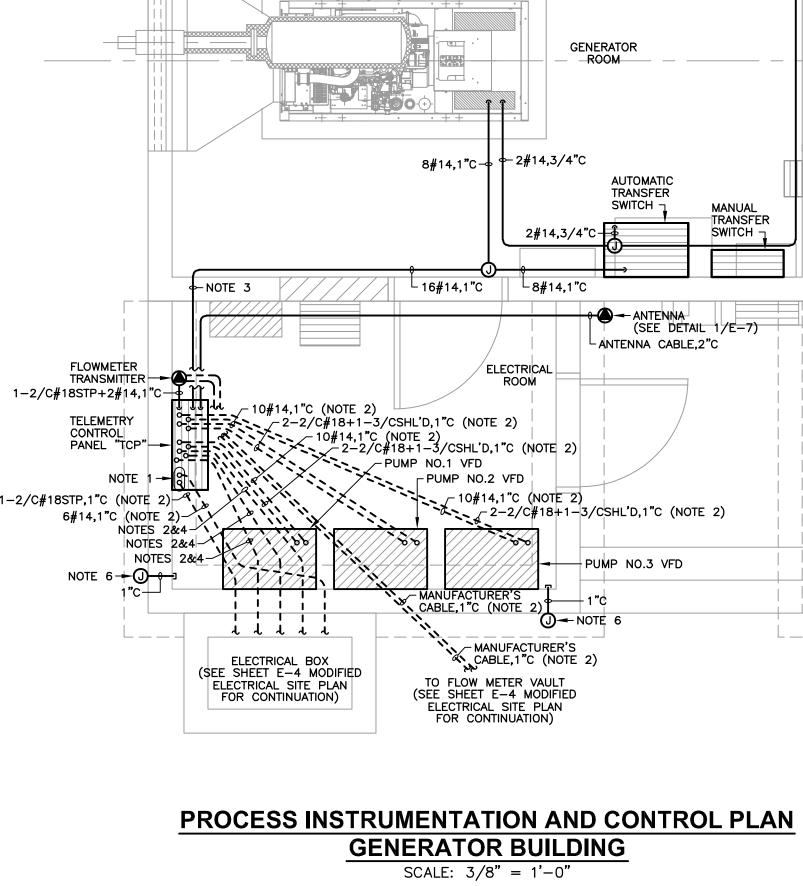


OF CITY

SHEET:

E-7 JOB NO.: 20503

NOTE: THIS APPROVAL EXPIRES ON THE DATE SHOWN. IF CONSTRUCTION HAS NOT STARTED BY THE EXPIRATION DATE, PLANS MUST BE RESUBMITTED FOR REVIEW AND APPROVAL. TWO INCHES AT FULL SCALE. IF NOT, SCALE ACCORDINGLY



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

OMNI ANTENNA —

GALVANIZED ANCHOR BOLTS AND WASHERS AS REQUIRED FOR WALL TYPE. (TYPICAL)

CAP AND SEAL CONDUIT -

MOUNT ANTENNA AT

CORD GRIP BUSHING

— 2" GALVANIZED RIGID STEEL

MAST EVERY 24")

-#8 COPPER

UNISTRUT WITH

GROUNDING CONDUCTOR

CONDUIT STRAP

(TYPICAL OF 2)

- GALVANIZED THREADED FLOOR FLANGE

CONCRETE SLAB

TO GROUNDING ELECTRODE
(SEE GROUNDING PLAN
FOR CONTINUATION)

MOUNT TO CONCRETE PAD

WITH 4, EPOXY ANCHORS

- ANTENNA FEEDLINE

CABLE TIE (TYPICAL) (SECURE GROUND CONDUCTOR TO THE

-3" CONDUIT "T" FITTING WITH GALVANIZED STEEL COVER AND

2" REDUCING BUSHINGS (TO

PROVIDE FOR ADEQUATE

→ 2" GALVANIZED RIGID STEEL (20" MINIMUM LENGTH)

ANTENNA FEEDLINE BEND RADIUS) (TYPICAL OF 2)

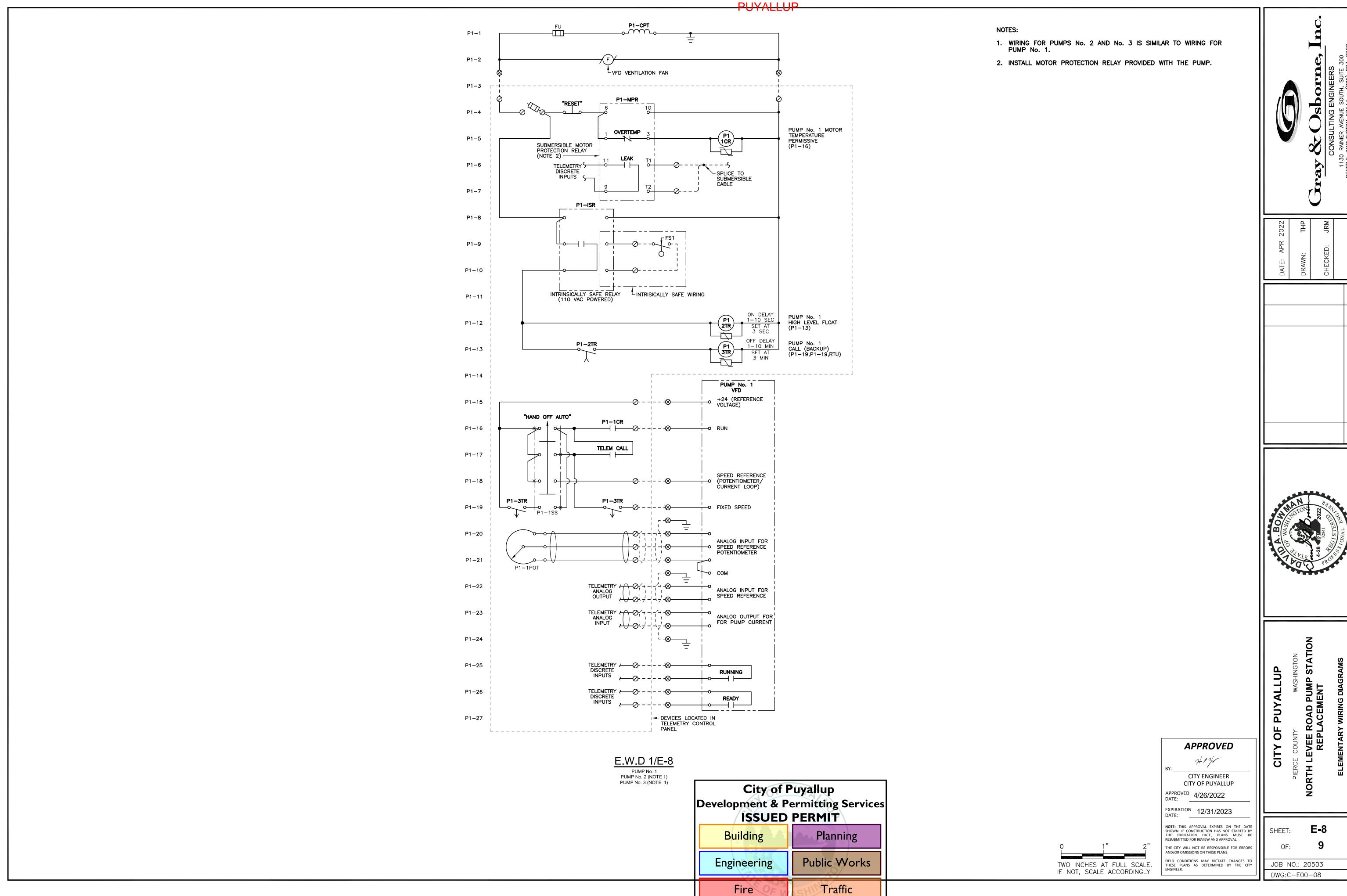
+14'-0" ABOVE GROUND

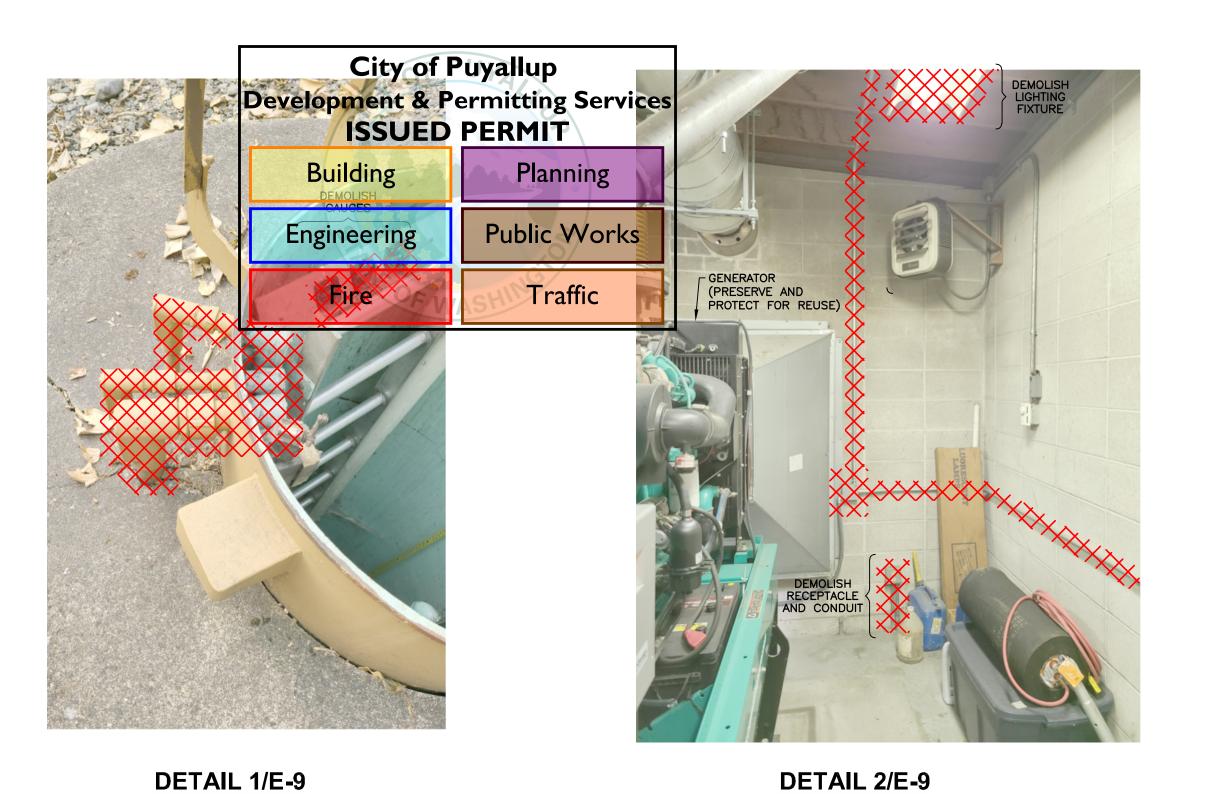
**APPROVED** 

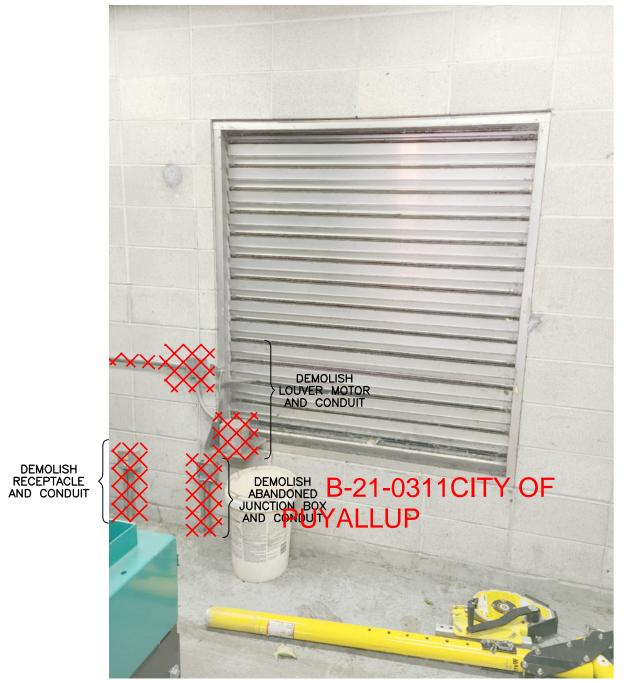
CITY ENGINEER CITY OF PUYALLUP APPROVED 4/26/2022

EXPIRATION 12/31/2023

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 CIT DWG:C-E00-07



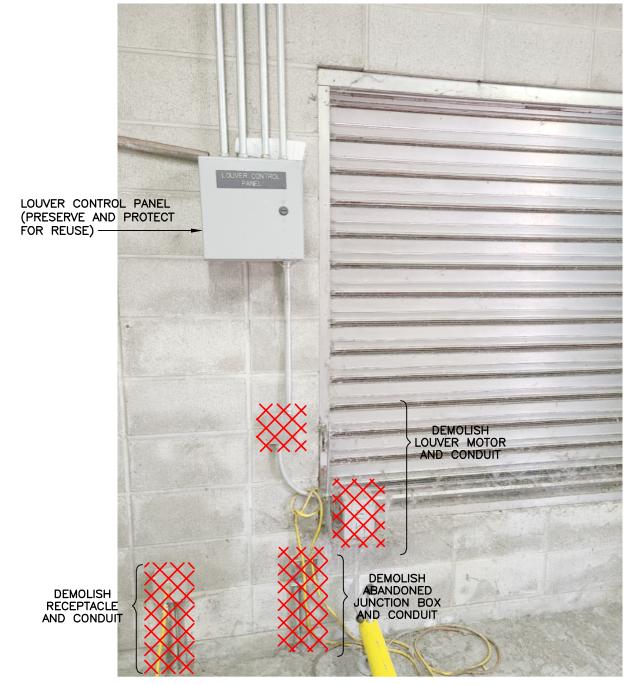




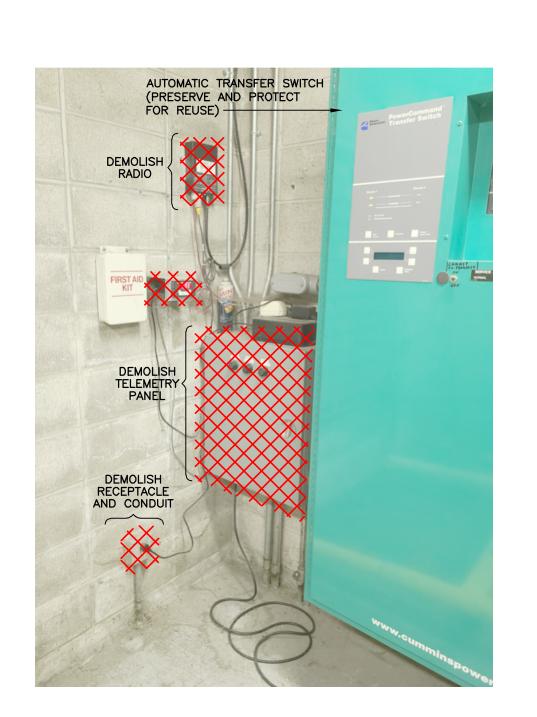
DETAIL 3/E-9

**EAST WALL** 

SCALE: NONE



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



**DRY WELL** 

SCALE: NONE





NORTHEAST CORNER

SCALE: NONE

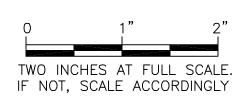
**DETAIL 6/E-9 WEST WALL** SCALE: NONE



DETAIL 7/E-9 CEILING
SCALE: NONE



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

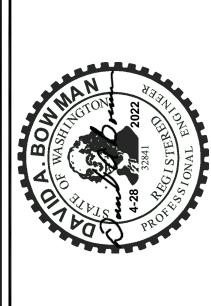






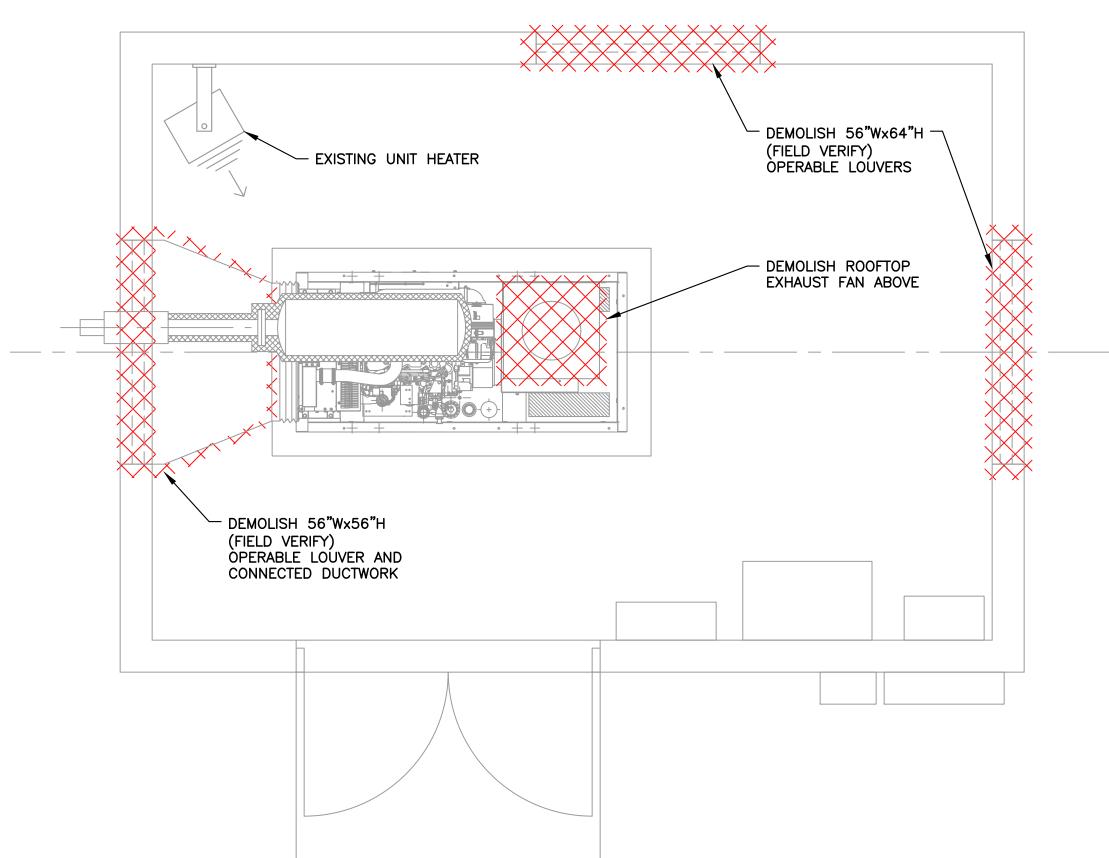
CITY ENGINEER

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CITY OF PUYALLUP LEVEE ROAD PUMP REPLACEMENT

JOB NO.: 20503 DWG:C-E00-09-C



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

## **HVAC DESIGN CRITERIA**

OA VENTILATION

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

**DESIGN TEMPERATURES** 

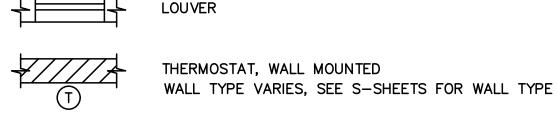
WINTER AMBIENT TEMP: 19 °F SUMMER AMBIENT TEMP: 86 °F INTERIOR HEATING SETPOINT: 40 °F INTERIOR COOLING SETPOINT: 90 °F

#### **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

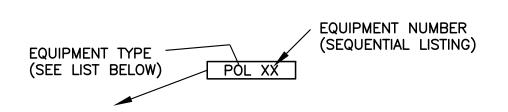
## **HVAC SYMBOLS**



**ELECTRIC MOTOR** FLOW DIRECTION, EXHAUST LOUVER OR SUPPLY DIFFUSER/GRILLE

FLOW DIRECTION, INTAKE LOUVER OR EXHAUST/RETURN GRILLE

#### **HVAC EQUIPMENT & AIR DEVICE IDENTIFICATIONS**



#### **EQUIPMENT**

FAN COIL HEAT PUMP LOUVER MOTORIZED DAMPER THERMOSTAT

## **HVAC ABBREVIATIONS**

**ROOM** 

NAME

GENERATOR ROOM

NAME

GENERATOR

ELECTRICAL

NAME

GENERATOR | ELECTRICAL

BUILDING

GENERATOR

BUILDING

BUILDING

GENERATOR

BUILDING

**BUILDING** 

GENERATOR

BUILDING

BUILDING

BUILDING

LOUVER

NO.

LVR 01

LVR 02

**DAMPER** 

NO.

MD 01

MD 02

FC 01

T 01

**TYPE** 

INTAKE

LOUVER

**EXHAUST** 

LOUVER

**FRAME** 

**TYPE** 

**CHANNEL** 

**CHANNEL** 

**TYPE** 

OUTDOOR

HEAT

PUMP

INDOOR

COIL

WALL FAN

**TYPE** 

**WIRELESS** 

PROGRAMMABLE

THERMOSTAT

Α	AMPERE
ACH	AIR CHANGES PER HOUR
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHJ	AUTHORITY HAVING JUSIDICTION
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
	MAXIMUM OVER CURRENT PROTECTION
	NOT APPLICABLE
	OUTSIDE AIR
	STATIC PRESSURE
	TEMPERATURE
	VOLTS
	WATT
WC	WATER COLUMN
	ACH AFF AFG AHJ BLDG BTU CAP CFM EA *F MBH MCA MFR MOCP NA OA SP

## City of Puyallup **Development & Permitting Services ISSUED PERMIT** Building **Planning** Public Works Engineering Traffic Fire

### **HVAC GENERAL NOTES**

& MODEL NO.

MITSUBISHI MHK2

OR EQUAL

**LOUVER SCHEDULE** 

**CONTROL DAMPER SCHEDULE** 

(WxH)

56"x64"

56"x56"

**HEAT PUMP SCHEDULE** 

CONTROLS

FC 01

T 01

**CONTROL SCHEDULE** 

HEAT

**POINT** 

40 °F

**MOUNTING** 

HEIGHT

**BOTTOM @ 20"** 

AFF

(FIELD VERIFY)

**BOTTOM @ 20"** 

AFF

(FIELD VERIFY)

BELLIMO

OR EQUAL

BELLIMO

OR EQUAL

~1,200

145-400

COOL

SET

**POINT** 

90 °F

**REMARKS** 

ANGLES.

**EXTERNAL** 

**EXTERNAL** 

STANDARD | HEATING | COOLING

AIRFLOW | CAPACITY | CAPACITY

8,100

BTU/HR

**©** 5 **°**F OAT

**VOLTAGE** 

AND

**PHASE** 

12 VDC

**ACTUATOR | ACTUATOR** 

ROUGH

**OPENING** 

SIZE (WxH)

56"x64"

(FIELD VERIFY)

56"x56"

(FIELD VERIFY)

**PHASE** 

115 V

115 V

VOLTAGE,

**PHASE** 

**AND MCA** 

230 V

1ø

9 A

230 V 1ø

1 A

CONTROLLED | MANUFACTURER

VOLTAGE NOMINAL

**MANUFACTURER** 

& MODEL NO.

**GREENHECK** 

ESD-635

OR EQUAL

**GREENHECK** 

ESD-635

OR EQUAL

MANUFACTURE

& MODEL NO.

**GREENHECK** 

ICD-45

OR EQUAL

**GREENHECK** 

ICD-45

OR EQUAL

**MANUFACTURER** 

& MODEL NO.

**MITSUBISHI** 

MUZ-GL09NA-U1

OR EQUAL

**MITSUBISHI** 

MSZ-GL09NA-U1

OR EQUAL

**EQUIPMENT** 

FC 01

- 1. MATERIALS, METHODS AND INSTALLATION SHALL COMPLY WITH THE CONTRACT SPECIFICATIONS AND WITH THE PROVISIONS OF THE 2018 INTERNATIONAL MECHANICAL CODE, 2018 INTERNATIONAL BUILDING CODE, 2018 INTERNATIONAL FIRE CODE AS AMENDED BY THE STATE OF WASHINGTON AND THE LOCAL AUTHORITY HAVING JURISDICTION.
- 2. 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.
- 3. CONTRACTOR SHALL VERIFY THE DIMENSIONS WITH THE EQUIPMENT MANUFACTURER TO PROVIDE DUCT TRANSITIONS TO THE INLET/OUTLET DIMENSIONS OF THE EQUIPMENT.
- 4. PROVIDE EARTHQUAKE RESTRAINT FOR HVAC EQUIPMENT IN ACCORDANCE WITH SMACNA RESTRAINT MANUAL AS REQUIRED BY 2018 INTERNATIONAL BUILDING CODE REQUIREMENTS.
- 5. CONSTRUCTION, SUPPORTS AND INSTALLATION SHALL BE INSTALLED AND COMPLY WITH THE 2018 INTERNATIONAL MECHANICAL CODE (IMC) AND WITH SMACNA HVAC DUCT CONSTRUCTION STANDARDS-METAL AND FLEXIBLE.
- 6. ALL DUCTWORK IS CLASSIFIED AS LOW PRESSURE.
- LOCATE THERMOSTATS 5 FEET AFF. UNLESS OTHERWISE NOTED.
- 8. PROVIDE FLEXIBLE DUCT CONNECTIONS ON ALL DUCTWORK CONNECTING TO EQUIPMENT.
- 9. EQUIPMENT DRAIN PIPING SHALL MAINTAIN A MIN HORIZONTAL SLOPE IN THE DIRECTION OF DISCHARGE OF MIN -1/8 INCH VERTICAL PER 1 FOOT HORIZONTAL.
- 10. CONTRACTOR SHALL COORDINATE CEILING EQUIPMENT LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLANS AND ELECTRICAL LIGHTING LAYOUT.
- 11. EQUIPMENT CONDENSATE DRAINS SHALL BE TRAPPED AS REQUIRED BY THE EQUIPMENT OR APPLIANCE MANUFACTURER.
- 12. 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 LINESET COVER SYSTEM.
- 13. BUILDING HVAC DOCUMENTS SUCH AS RECORDS, CALCULATIONS, COMPLIANCE FORMS, AND EQUIPMENT MANUALS SHALL BE SUPPLIED TO THE BUILDING OWNER.

## **APPROVED**

CITY ENGINEER

CITY OF PUYALLUP APPROVED 4/26/2022

EXPIRATION 12/31/2023

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THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS FIELD CONDITIONS MAY DICTATE CHANGES T

SHEET:

OF

CITY

DWG:H\_PLAN

B-21-0311CITY OF

**REMARKS** 

CLOSED.

PROVIDE HI-PRO POLYESTER

PROVIDE HI-PRO POLYESTER

IS RUNNING, OTHERWISE

IS RUNNING, OTHERWISE

FINISH. OPEN WHEN GENERATOR

FINISH. OPEN WHEN GENERATOR

**REMARKS** 

PROVIDE INSULATED LINE SET,

INSULATED DRAIN PIPE, LINE

HIDE SET, DRAIN PAN HEATER

AND WALL MOUNTING BRACKET

CONTROLLER MHK2. MOUNT

PROVIDE WIRELESS

ABOVE DOOR.

**PUYALLUP** 

PROVIDE EXTENDED SILL, HYLAR/KYNAR FINISH, INSECT SCREEN, AND CLIP

PROVIDE EXTENDED SILL, HYLAR/KYNAR FINISH, BIRD SCREEN, AND CLIP

**LISTED** 

**EFFICIENCY** 

24.6 SEER

TWO INCHES AT FULL SCALE.

IF NOT, SCALE ACCORDINGLY

NO. OF

PER MFG.

PER MFG.

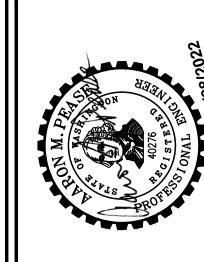
9,000

BTU/HR

@ 95 \*F OAT

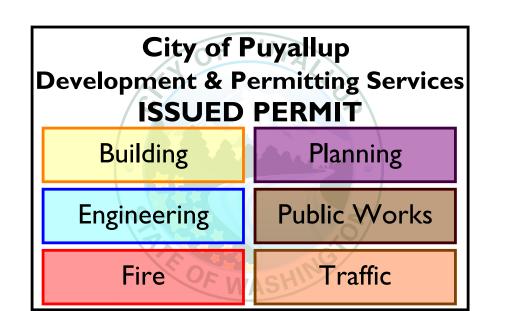
REMARKS

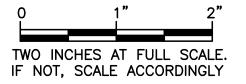
| MOUNTING | ACTUATORS | POSITION



JOB NO.: 20503

## B-21-0311CITY OF PUYALLUP





APPROVED
BY:
CITY ENGINEER CITY OF PUYALLU
APPROVED 4/26/2022 DATE:
EXPIRATION 12/31/2023
NOTE: THIS APPROVAL EXPIRES ON SHOWN. IF CONSTRUCTION HAS NOT THE EXPIRATION DATE, PLANS

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SHEET: **H-2**OF: **2**JOB NO.: 20503

DWG:H\_PLAN

CITY OF PUYALLUP

