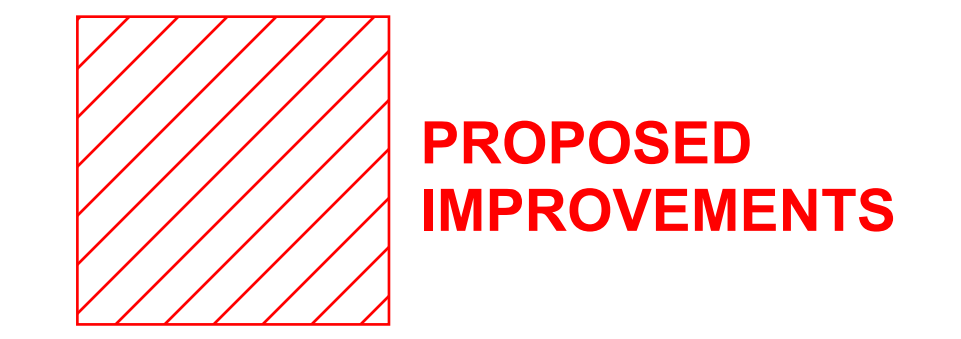
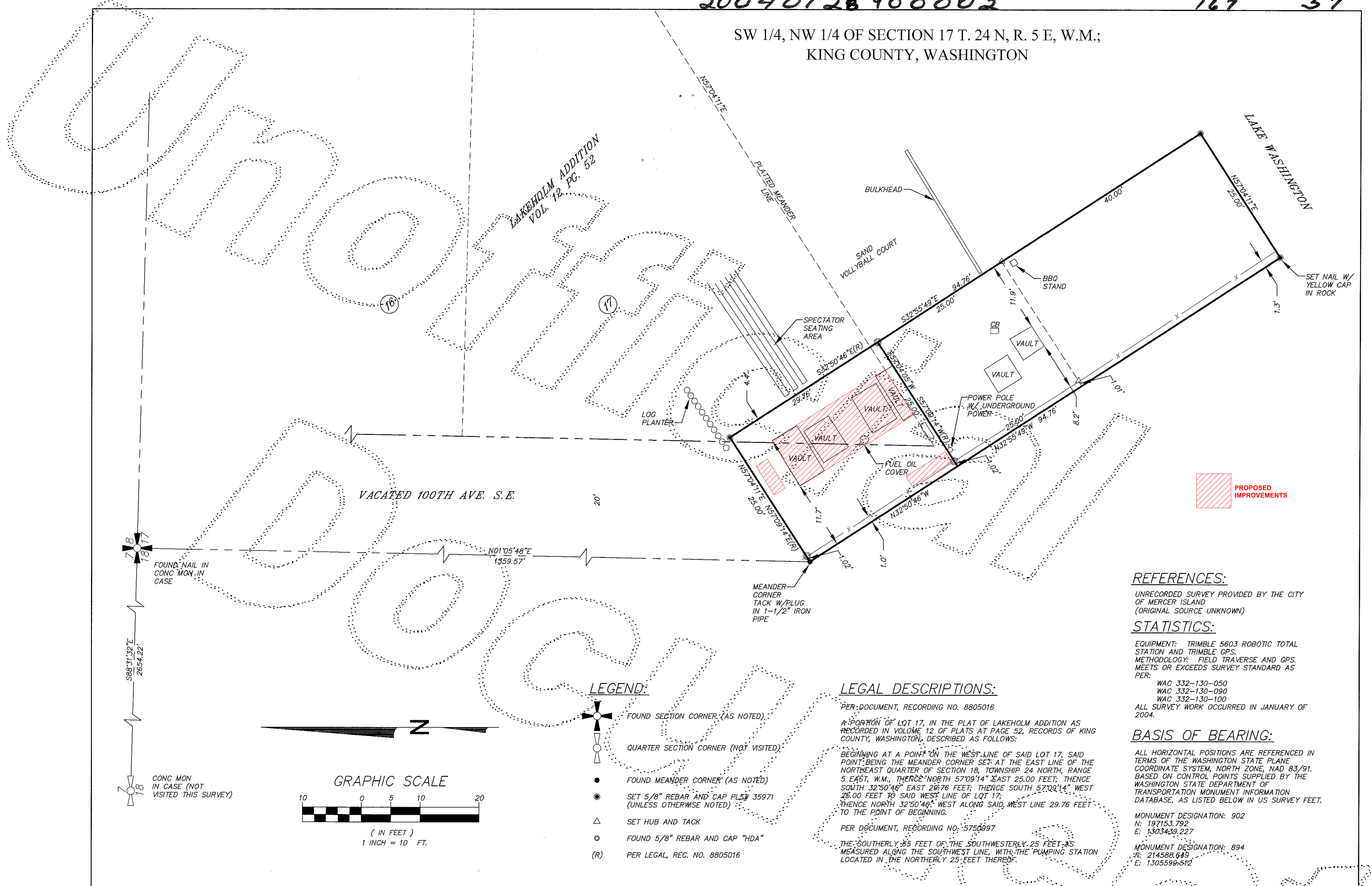


SW 1/4, NW 1/4 OF SECTION 17 T. 24 N, R. 5 E, W.M.; KING COUNTY, WASHINGTON



REFERENCES:
 UNRECORDED SURVEY PROVIDED BY THE CITY OF MERCER ISLAND (ORIGINAL SOURCE UNKNOWN)

STATISTICS:
 EQUIPMENT: TRIMBLE 5603 ROBOTIC TOTAL STATION AND TRIMBLE GPS.
 METHODOLOGY: FIELD TRAVERSE AND GPS.
 MEETS OR EXCEEDS SURVEY STANDARD AS PER:
 WAC 332-130-050
 WAC 332-130-090
 WAC 332-130-100
 ALL SURVEY WORK OCCURRED IN JANUARY OF 2004.

BASIS OF BEARING:
 ALL HORIZONTAL POSITIONS ARE REFERENCED IN TERMS OF THE WASHINGTON STATE PLANE COORDINATE SYSTEM, NORTH ZONE, NAD 83/91. BASED ON CONTROL POINTS SUPPLIED BY THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION MONUMENT INFORMATION DATABASE, AS LISTED BELOW IN US SURVEY FEET.
 MONUMENT DESIGNATION: 902
 N: 192153.792
 E: 1303439.227
 MONUMENT DESIGNATION: 894
 N: 214588.649
 E: 1305596.512

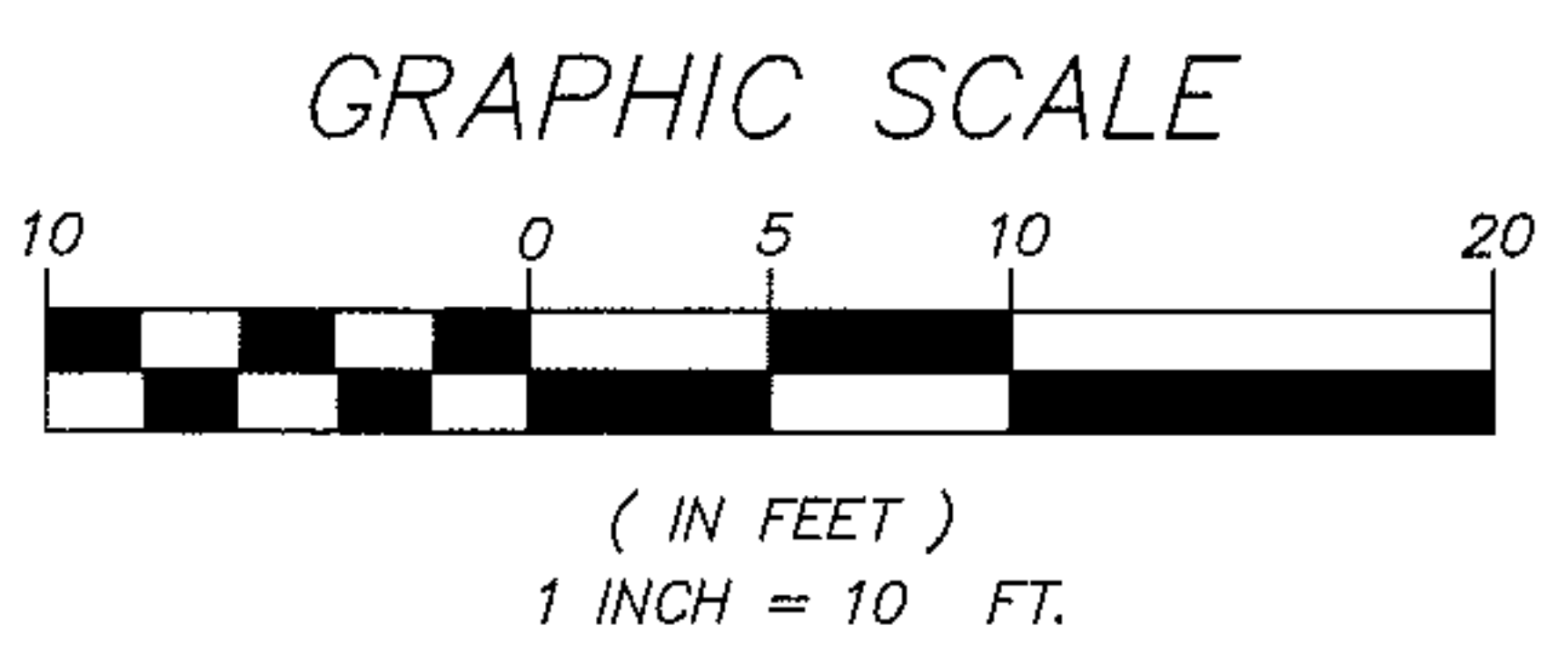
- LEGEND:**
- FOUND SECTION CORNER (AS NOTED)
 - QUARTER SECTION CORNER (NOT VISITED)
 - FOUND MEANDER CORNER (AS NOTED)
 - SET 5/8" REBAR AND CAP PLS# 35971 (UNLESS OTHERWISE NOTED)
 - SET HUB AND TACK
 - FOUND 5/8" REBAR AND CAP "HDA"
 - PER LEGAL, REC. NO. 8805016

LEGAL DESCRIPTIONS:
 PER DOCUMENT, RECORDING NO. 8805016
 A PORTION OF LOT 17, IN THE PLAT OF LAKEHOLM ADDITION AS RECORDED IN VOLUME 12 OF PLATS AT PAGE 52, RECORDS OF KING COUNTY, WASHINGTON, DESCRIBED AS FOLLOWS:
 BEGINNING AT A POINT ON THE WEST LINE OF SAID LOT 17, SAID POINT BEING THE MEANDER CORNER SET AT THE EAST LINE OF THE NORTHEAST QUARTER OF SECTION 18, TOWNSHIP 24 NORTH, RANGE 5 EAST, W.M., THENCE NORTH 57°09'14" EAST 25.00 FEET; THENCE SOUTH 32°50'46" EAST 29.76 FEET; THENCE SOUTH 57°09'14" WEST 25.00 FEET TO SAID WEST LINE OF LOT 17; THENCE NORTH 32°50'46" WEST ALONG SAID WEST LINE 29.76 FEET TO THE POINT OF BEGINNING.
 PER DOCUMENT, RECORDING NO.: 5750997
 THE SOUTHERLY 85 FEET OF THE SOUTHWESTERLY 25 FEET AS MEASURED ALONG THE SOUTHWEST LINE, WITH THE PUMPING STATION LOCATED IN THE NORTHERLY 25 FEET THEREOF.

FOUND NAIL IN CONC MON IN CASE

58831'32"E
2654.22'

CONC MON IN CASE (NOT VISITED THIS SURVEY)



AUDITOR'S CERTIFICATE
 FILED FOR RECORD THIS 28 DAY OF JAN, 2004, AT 12:50 A.M., IN BOOK 167 OF SURVEYS AT PAGE 57, AT THE REQUEST OF PACIFIC GEOMATIC SERVICES, INC.
 [Signature] COUNTY AUDITOR
 [Signature] DEPUTY COUNTY AUDITOR

SURVEYOR'S CERTIFICATE
 THIS MAP CORRECTLY REPRESENTS A SURVEY MADE BY ME OR UNDER MY DIRECTION IN CONFORMANCE WITH THE REQUIREMENTS OF THE SURVEY RECORDING ACT AT THE REQUEST OF THE CITY OF MERCER ISLAND IN JANUARY, 2003.
 RONNIE G. HILLIARD, PLS
 REGISTRATION NO. 35971
 EXPIRES: 09/06/04



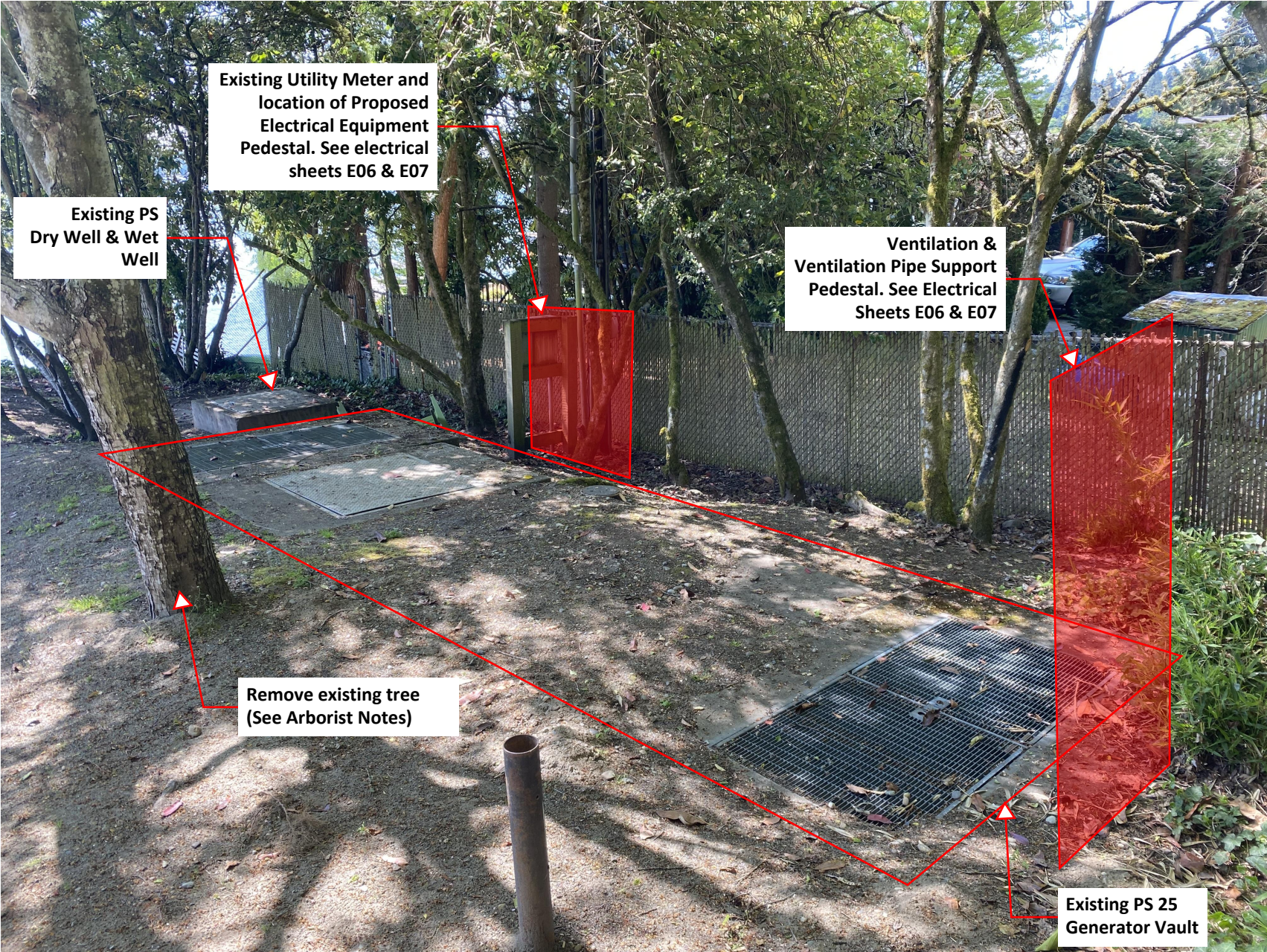
PACIFIC GEOMATIC SERVICES, INC.
 LAND SURVEYING & MAPPING SERVICES
 QUALITY SERVICE - CREATIVE SOLUTIONS
 6608 216TH STREET SW, SUITE 304
 MOUNTLAKE TERRACE, WA 98043
 PHONE: (425) 778-5620 FAX: (425) 775-2849
 WEB: www.PacGeom.com
 PGS INC

RECORD OF SURVEY FOR:
CITY OF MERCER ISLAND
SEWER EASEMENT SURVEY

DRAWN BY: RWP	DATE: 01-19-04	REV. BY:	DATE:	PROJECT MANAGER: RGH	SCALE: 1" = 10'
DRAWING FILE NAME: 046_R0S.DWG	CHK BY: RGH	F.B. NO. FILE	JOB NO. 03-046-01	SHT. NO. 1 OF 1	

Pump Station 25 Emergency Generator Photo Detail

4266 E Mercer Way

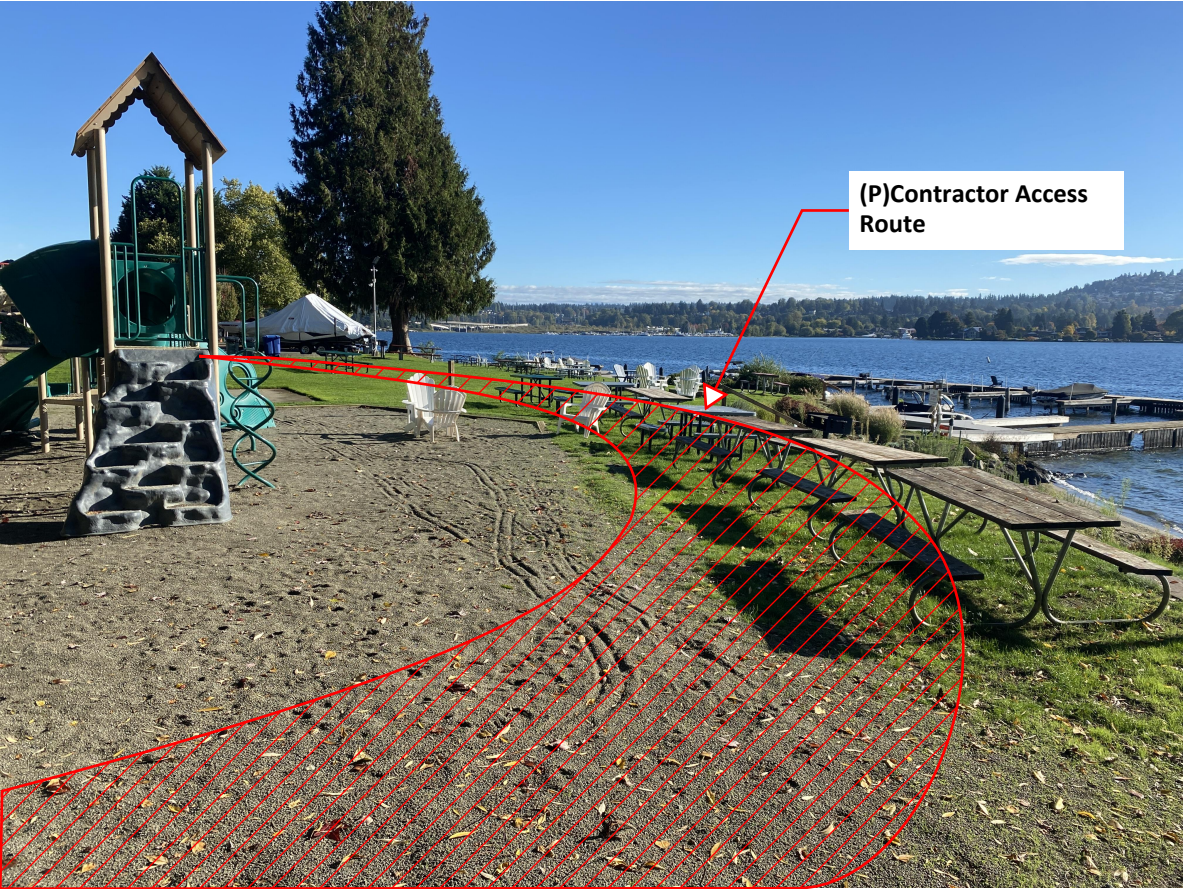


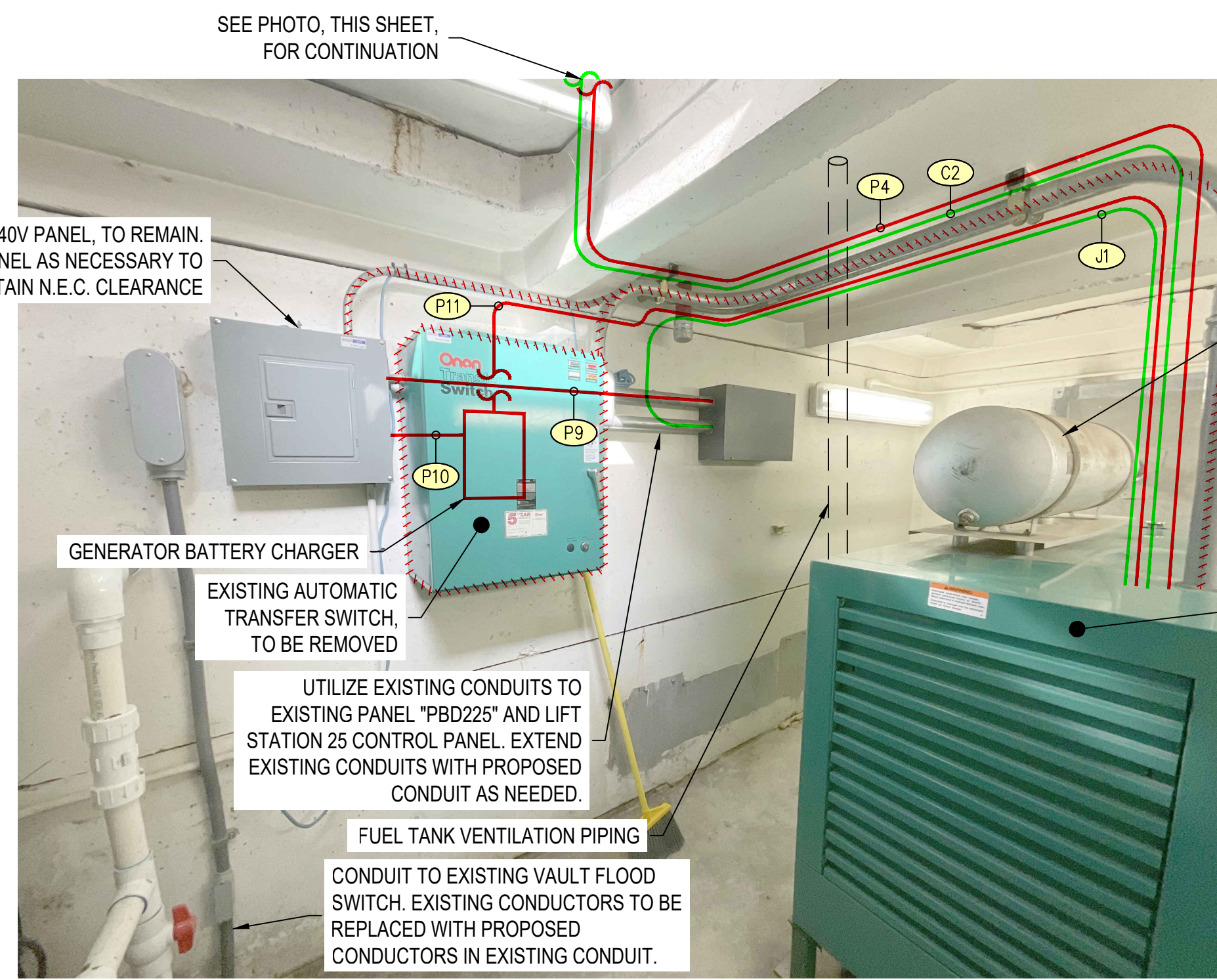
Pump Station 25 Emergency Generator Photo Detail

4266 E Mercer Way



(P)Crane Working Area





EXISTING GENERATOR VAULT INTERIOR

NO SCALE

CONTRACTOR SHALL REUSE EXISTING SILENCER. MODIFY EXHAUST PIPE ROUTING AND BRACKETRY AS NEEDED TO ACCOMMODATE PROPOSED GENERATOR

EXISTING GENERATOR, TO BE REMOVED AND REPLACED WITH PROPOSED 40KW GENERATOR



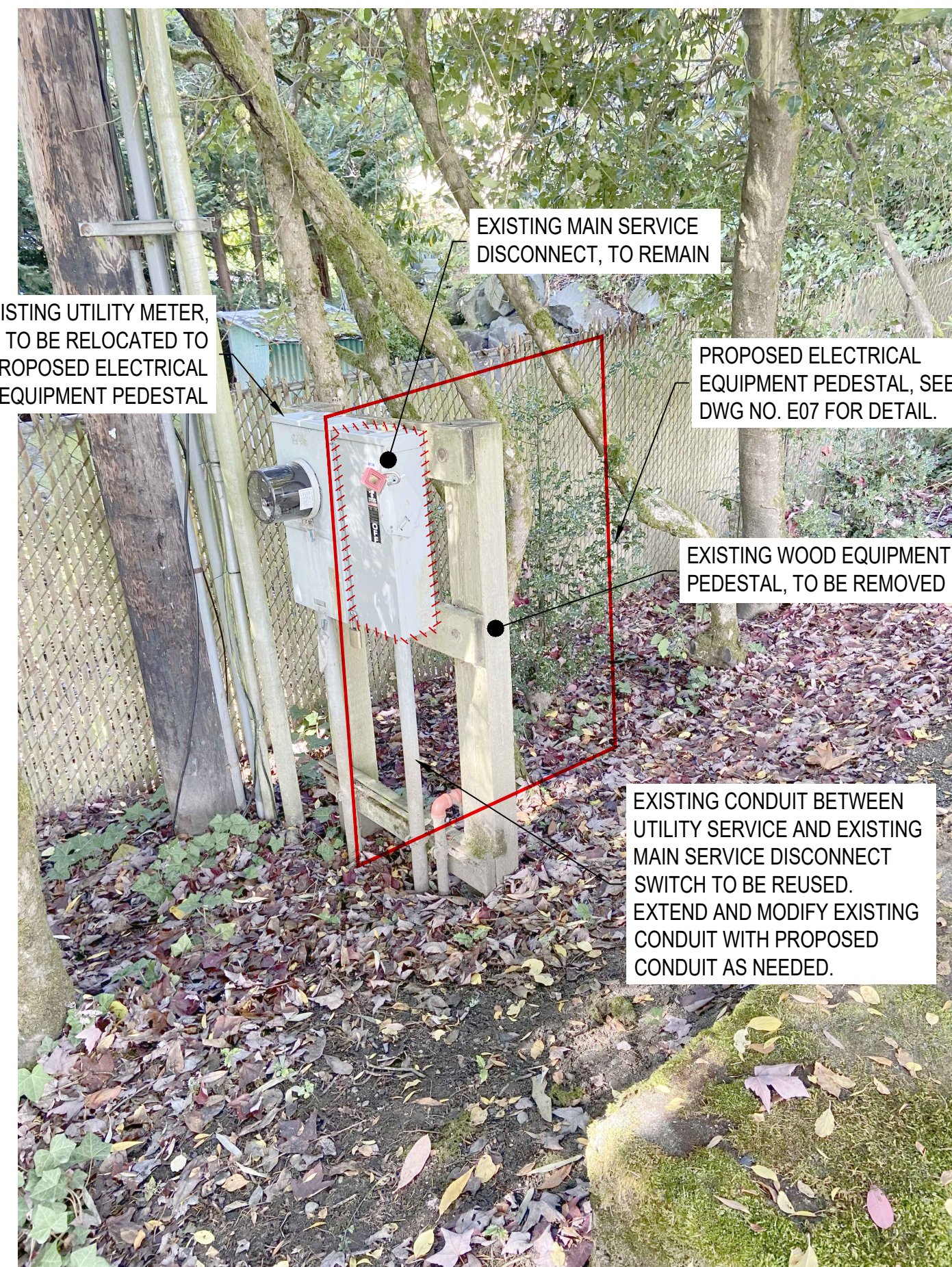
LIFT STATION 25

NO SCALE



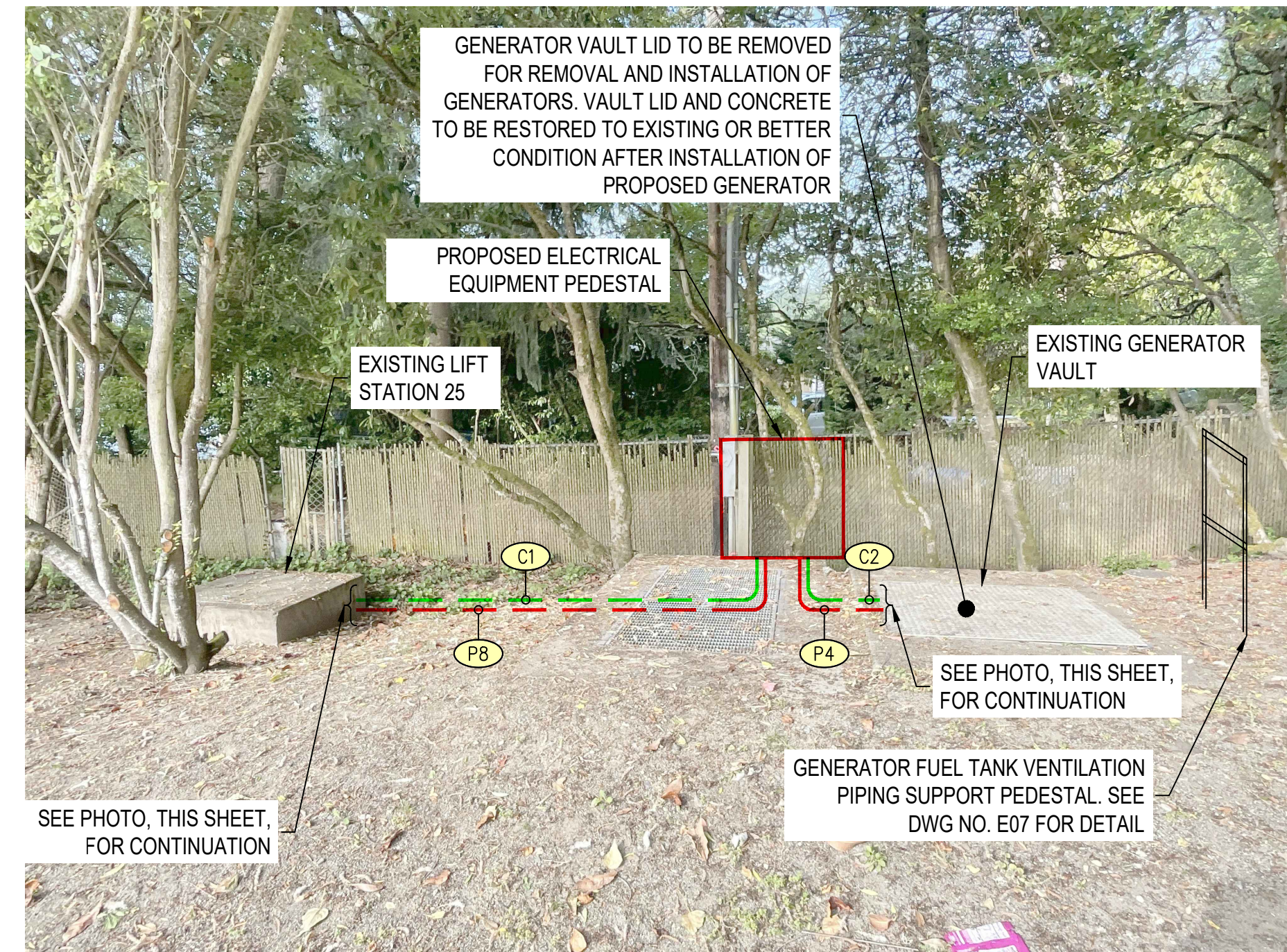
EXISTING PANEL, "PBD225"

NO SCALE



LIFT STATION 25 ELECTRICAL EQUIPMENT PEDESTAL

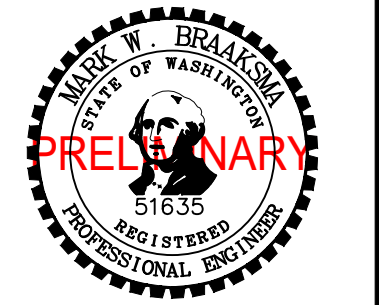
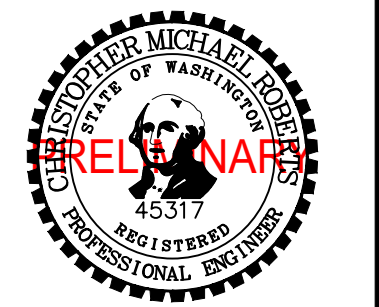
NO SCALE



LIFT STATION 25 SITE

NO SCALE

ELECTRICAL NOTES	
(XX)	1. SEE DWG NO. E07 FOR CONDUIT AND CONDUCTOR SCHEDULE.
(X)	2. SEE DWG NO. E07 FOR ELECTRICAL EQUIPMENT SCHEDULE.



CITY OF MERCER ISLAND
SEWER PUMP STATION GENERATOR REPLACEMENT



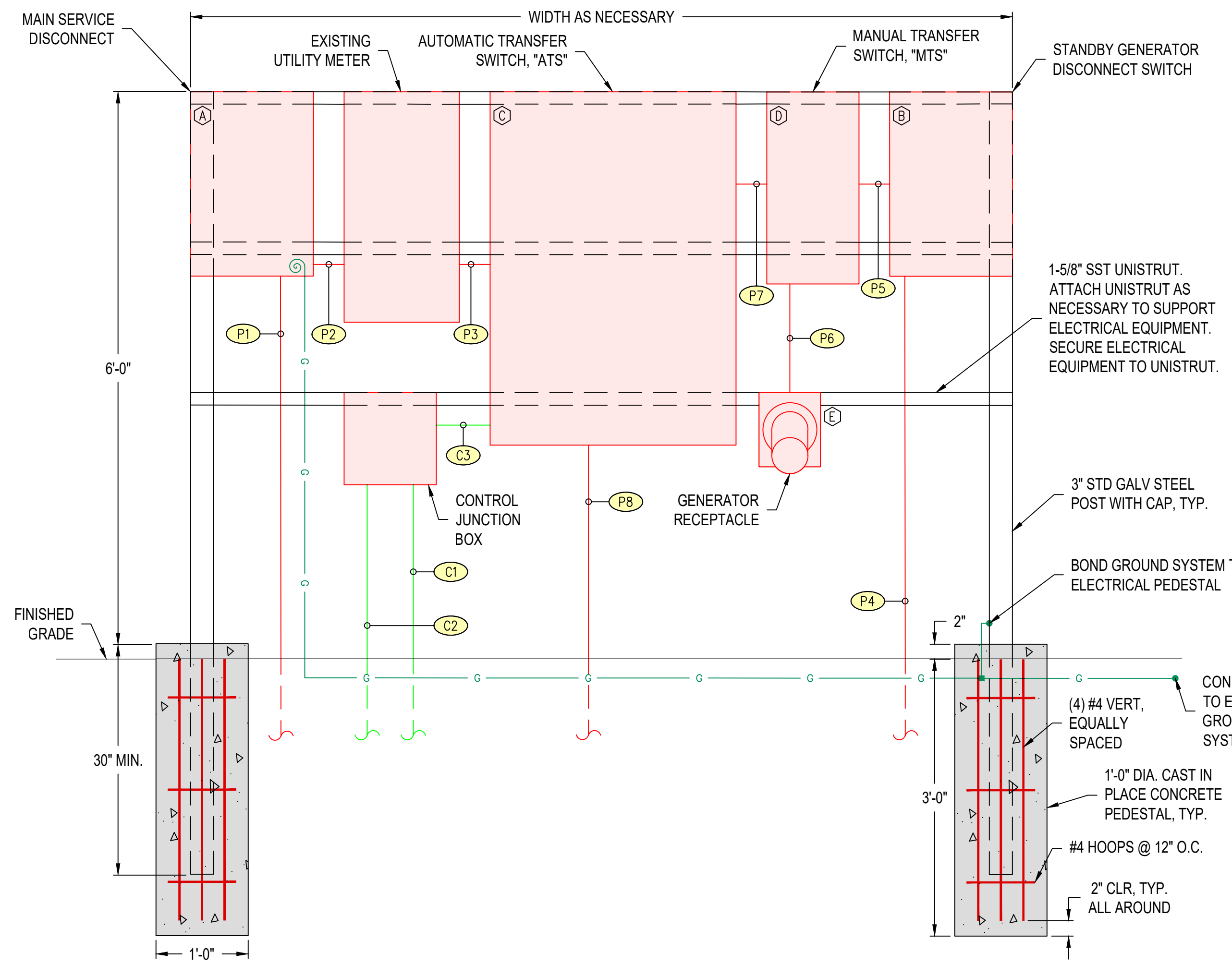
LS 25 ELECTRICAL PLAN

NO.	DATE	DESCRIPTION	BY	REVIEW

ENGINEER: MBD	DATE: Jul 31, 2023	CLIENT: MI	JOB NO.: 210-262
REVIEWED: MWB	PL07 DATE: Aug 11, 2023	FILENAME: PSCR-D-ELEC03.DWG	
DWG NO.: E06		SHEET NO.: 6	

SCALE: SHOWN

DRAWING IS FULL SCALE WHEN BAR MEASURES 2"



1-5/8" SST UNISTRUT. ATTACH UNISTRUT AS NECESSARY TO SUPPORT ELECTRICAL EQUIPMENT. SECURE ELECTRICAL EQUIPMENT TO UNISTRUT.

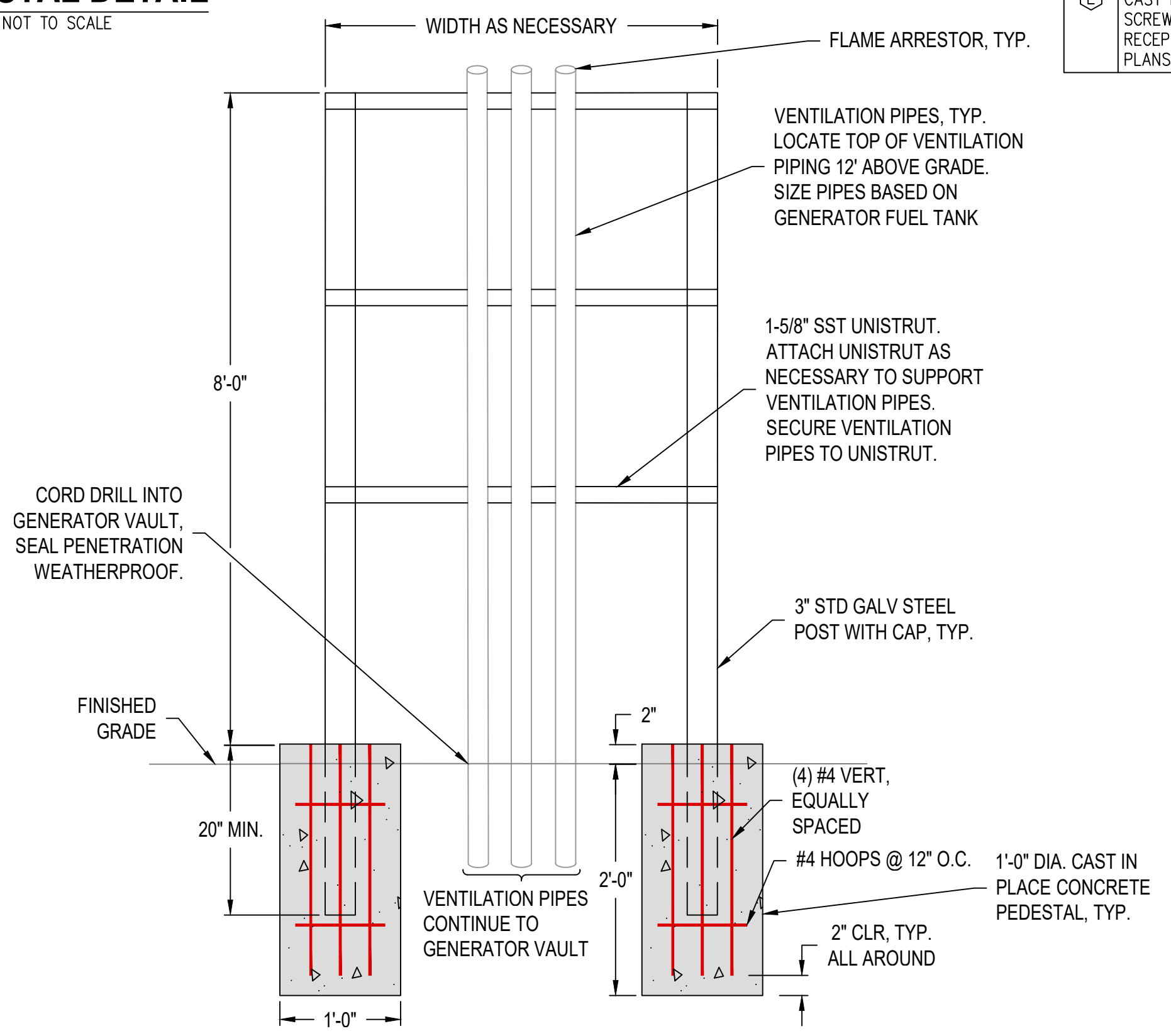
3" STD GALV STEEL POST WITH CAP, TYP.

BOND GROUND SYSTEM TO ELECTRICAL PEDESTAL

CONNECT TO EXISTING GROUNDING SYSTEM

1'-0" DIA. CAST IN PLACE CONCRETE PEDESTAL, TYP.
#4 HOOPS @ 12" O.C.
2" CLR, TYP. ALL AROUND

ELECTRICAL EQUIPMENT PEDESTAL DETAIL
NOT TO SCALE



VENTILATION PIPE SUPPORT PEDESTAL DETAIL
NOT TO SCALE

POWER CONDUIT AND CONDUCTOR SCHEDULE					
CIRCUIT	SOURCE	DESTINATION	TRADE SIZE	(QUANTITY) CONDUCTORS	NOTES
P1	EXISTING UTILITY SERVICE	MAIN SERVICE DISCONNECT	-	(3) - #3, (1) - #3 N	CONDUCTORS IN A COMBINATION OF EXISTING AND PROPOSED CONDUIT
P2	MAIN SERVICE DISCONNECT	EXISTING UTILITY METER	1 1/2"	(3) - #3, (1) - #3 N, (1) - #8 GRD	
P3	EXISTING UTILITY METER	AUTOMATIC TRANSFER SWITCH, "ATS"	1 1/2"	(3) - #3, (1) - #3 N, (1) - #8 GRD	
P4	STANDBY GENERATOR	STANDBY GENERATOR DISCONNECT SWITCH	1 1/2"	(3) - #3, (1) - #3 N, (1) - #8 GRD	
P5	STANDBY GENERATOR DISCONNECT SWITCH	MANUAL TRANSFER SWITCH, "MTS"	1 1/2"	(3) - #3, (1) - #3 N, (1) - #8 GRD	
P6	GENERATOR RECEPTACLE	MANUAL TRANSFER SWITCH, "MTS"	1 1/2"	(3) - #3, (1) - #3 N, (1) - #8 GRD	
P7	MANUAL TRANSFER SWITCH, "MTS"	AUTOMATIC TRANSFER SWITCH, "ATS"	1 1/2"	(3) - #3, (1) - #3 N, (1) - #8 GRD	
P8	AUTOMATIC TRANSFER SWITCH, "ATS"	EXISTING PANEL, "PBD225"	1 1/2"	(3) - #3, (1) - #3 N, (1) - #8 GRD	
P9	EXISTING PANEL, "PBD225"	EXISTING 240/120V PANEL	-	(3) - #12, (1) - #12 GRD	CONDUCTORS IN A COMBINATION OF EXISTING AND PROPOSED CONDUIT
P10	EXISTING 240/120V PANEL	GENERATOR BATTERY CHARGER	3/4"	(2) - #12, (1) - #12 GRD	
P11	GENERATOR BATTERY CHARGER	STANDBY GENERATOR	3/4"	(2) - #12, (1) - #12 GRD	

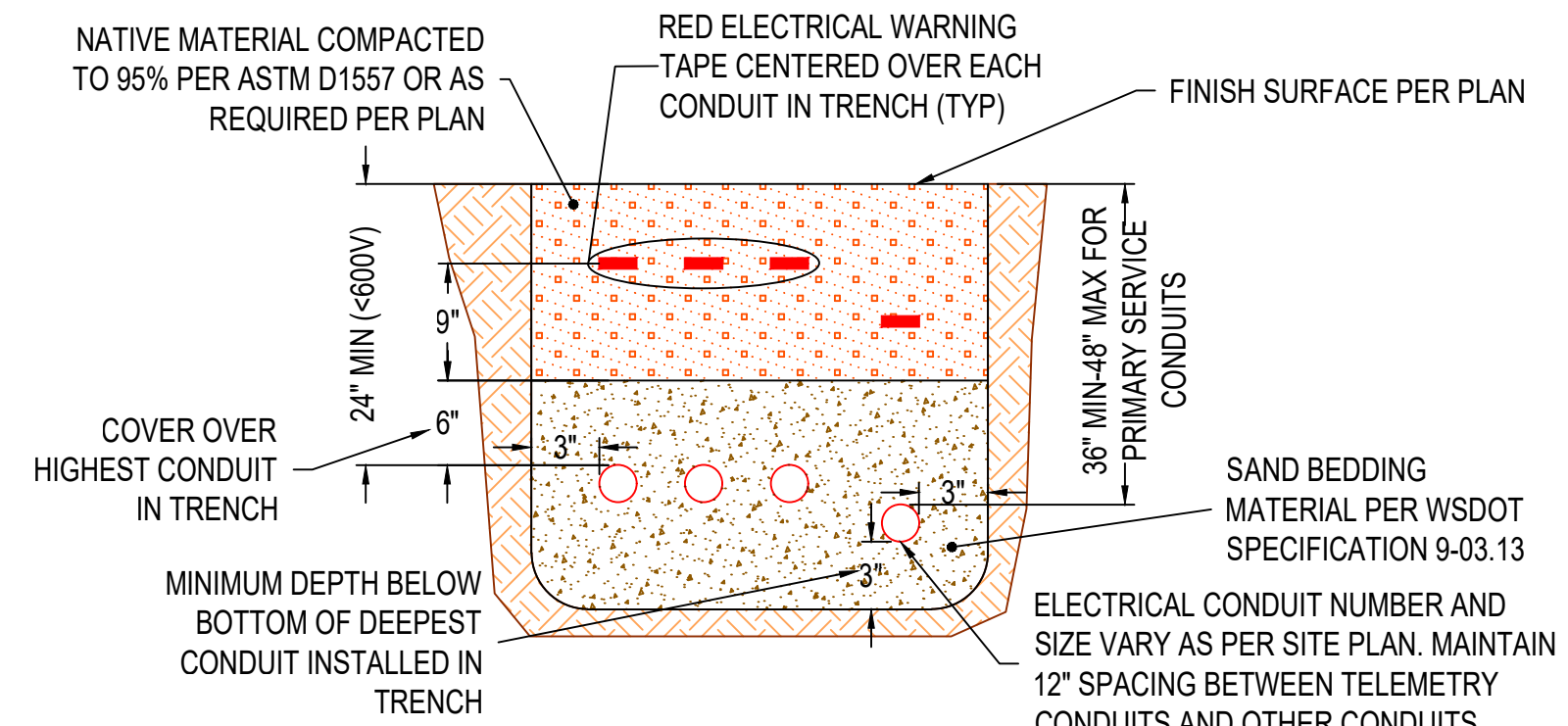
CONTROL CONDUIT AND CONDUCTOR SCHEDULE					
CIRCUIT	SOURCE	DESTINATION	TRADE SIZE	(QUANTITY) CONDUCTORS	NOTES
C1	EXISTING LIFT STATION 25 CONTROL PANEL	CONTROL JUNCTION BOX	3/4"	(14) - #14, (1) - #14 GRD	
C2	CONTROL JUNCTION BOX	STANDBY GENERATOR	3/4"	(11) - #14, (1) - #14 GRD	START SIGNAL FROM ATS, GENERATOR ALARMS TO LS-25 CONTROL PANEL
C3	CONTROL JUNCTION BOX	AUTOMATIC TRANSFER SWITCH, "ATS"	3/4"	(9) - #14, (1) - #14 GRD	START SIGNAL FROM ATS, ATS ALARMS TO LS-25 CONTROL PANEL

INSTRUMENTATION CONDUIT AND CONDUCTOR SCHEDULE					
CIRCUIT	SOURCE	DESTINATION	TRADE SIZE	(QUANTITY) CONDUCTORS	NOTES
J1	STANDBY GENERATOR	EXISTING LIFT STATION 25 CONTROL PANEL	-	(1) 2-CONDUCTOR SHIELDED CABLE	CONDUCTORS IN A COMBINATION OF EXISTING AND PROPOSED CONDUIT

ELECTRICAL EQUIPMENT AND INSTRUMENTATION SCHEDULE			
ITEM	DESCRIPTION	MANUFACTURER	MODEL NO.
A	MAIN SERVICE DISCONNECT SWITCH - NEMA 4X SS ENCLOSURE, HEAVY DUTY BREAKER, SERVICE ENTRANCE RATED, ELECTRONIC TRIP, 100 AMP, 240 VOLT, 3φ 42 KAIC WITHSTAND, CIRCUIT BREAKER SWITCH.	SIEMENS	SHJ06 OR EQUAL
B	GENERATOR DISCONNECT SWITCH - NEMA 4X SS ENCLOSURE, HEAVY DUTY BREAKER, ELECTRONIC TRIP, 100 AMP, 240 VOLT, 3φ 42 KAIC WITHSTAND, CIRCUIT BREAKER SWITCH. FLEX HANDLE OPERATOR MOUNTED ON SIDE OF ENCLOSURE.	SIEMENS	SHJ06 OR EQUAL
C	AUTOMATIC TRANSFER SWITCH - NEMA 4X SS ENCLOSURE, 100 AMP, 240 VOLT, 3 PHASE, 3 POLE, 42 KAIC WITHSTAND.	SEE SPECIFICATIONS	SEE SPECIFICATIONS
D	MANUAL TRANSFER SWITCH - 100 AMP, 3-PHASE, 600 VOLT, HEAVY DUTY DOUBLE THROW NON-FUSIBLE SAFETY SWITCH, NEMA 4X SS ENCLOSURE	SIEMENS	DTNF363S OR EQUAL
E	GENERATOR RECEPTACLE - 240 VOLT, 3-PHASE, 4 WIRE SERVICE. 100 AMP WITH LARGE WIRE RECESS AND REVERSED CONTACTS (FEMALE). RECEPTACLE SHALL BE PROVIDED WITH CAST BACK BOX, ANGLE ADAPTER, GASKETS, ADNA GASKETED SCREW-TYPE, WEATHERTIGHT CAP WITH CHAIN FASTENER. RECEPTACLE SHALL ACCOMMODATE CONDUCTOR SIZE SHOWN ON PLANS.	CROUSE-HINDS	ARKTITE AREA10426-S22

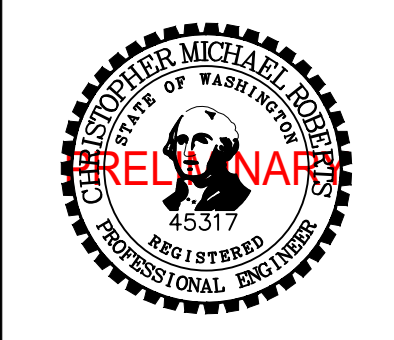
PROPOSED DISCRETE INPUTS		
EXISTING DIGITAL INPUT CARD		
SLOT	CHANNEL	NAME
5	4	GENERATOR RUN STATUS
5	5	GENERATOR FAULT
5	6	GENERATOR LOW FUEL ALARM
5	7	GENERATOR PRE-ALARM WARNING
5	8	ATS IN NORMAL
5	9	ATS IN GENERATOR
5	10	ATS UTILITY POWER AVAILABLE
5	11	GENERATOR VAULT FLOOD SWITCH ALARM

PROPOSED ANALOG INPUTS		
EXISTING ANALOG INPUT CARD		
SLOT	CHANNEL	NAME
11	1	GENERATOR FUEL LEVEL



TYPICAL ELECTRICAL TRENCH DETAIL
NOT TO SCALE

NOTE: BURY DEPTH OF CONDUIT AND HORIZONTAL SPACING SHALL BE CONFIRMED WITH SERVING UTILITY BEFORE CONSTRUCTION.



CITY OF MERCER ISLAND
SEWER PUMP STATION GENERATOR REPLACEMENT
LS 25 ELECTRICAL DETAILS, SCHEDULES AND TELEMETRY MODIFICATIONS

NO.	DATE	DESCRIPTION	BY	REVIEW



Pump Station 25 Emergency Generator Above Ground Structure (ABS) Improvements

4266 E Mercer Way (PS 25)



Legend

- Sewer Pump Station
- Sewer Manhole**
 - Other
 - Hydraulic Grade Manhole
 - Manhole
 - Overflow Manhole
 - Special Sewer Catch Basin
 - Grease Trap

Address

- Parcels
 - Buildings
 - Docks
 - Shoreline
- March 2020
- Red: Band_1
 - Green: Band_2
 - Blue: Band_3

- 6' Electrical Equipment Pedestal
- 8' Support Pedestal w/ 12' Vent Pipes



1 inch =
66.666666666667
feet



Disclaimer: These maps were developed by the City of Mercer Island and are intended to be a general purpose digital reference tool. These maps are not an accepted legal instrument for describing, establishing, recording or maintaining descriptions for property concerns or boundaries. The City makes no representation or warranty with respect to the accuracy or currency of these data sets, especially in regard to labeling of surveyed dimensions, or agreement with official sources such as records of survey, or mapped locations of features.

Notes