

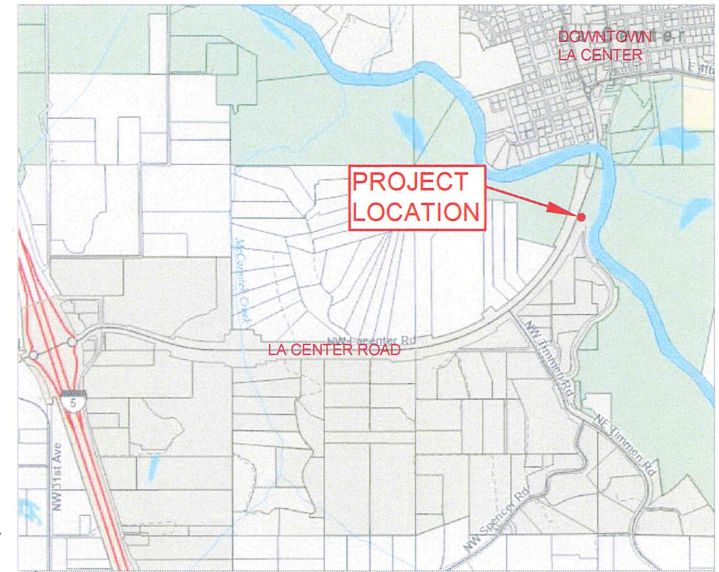
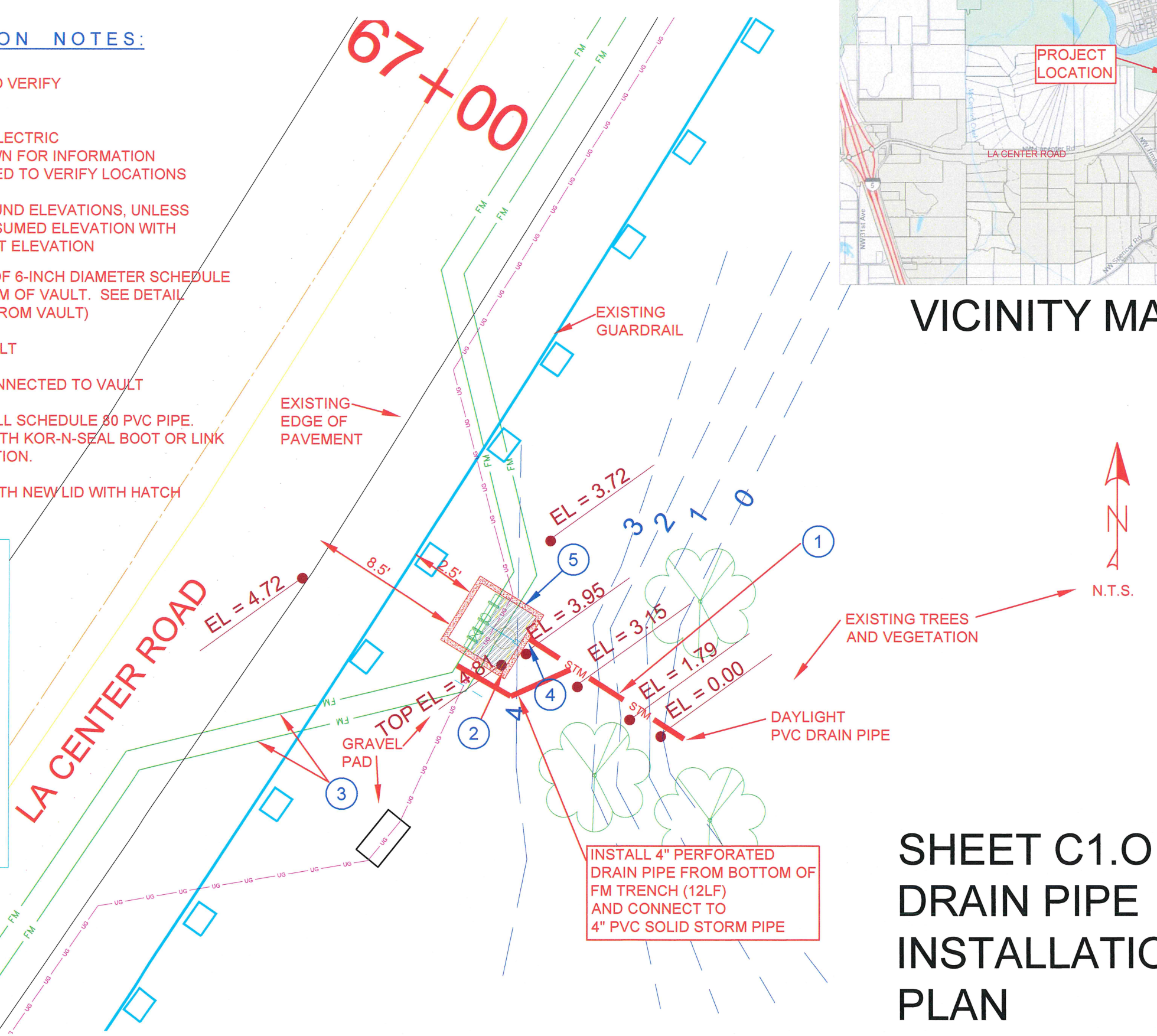
CONSTRUCTION NOTES:
GENERAL NOTES

THE CONTRACTOR WILL NEED TO VERIFY ELEVATIONS AND CONDITIONS BEFORE CONSTRUCTION. THE EXISTING UNDERGROUND ELECTRIC AND OTHER UTILITIES ARE SHOWN FOR INFORMATION AND THE CONTRACTOR WILL NEED TO VERIFY LOCATIONS BEFORE EXCAVATION- THE CONTOURS AND SPOT GROUND ELEVATIONS, UNLESS OTHERWISE SHOWN, ARE AN ASSUMED ELEVATION WITH THE LOWEST POINT BEING 0-FEET ELEVATION

- 1 INSTALL APPROXIMATELY 25 LF OF 6-INCH DIAMETER SCHEDULE 80 PVC DRAIN PIPE FROM BOTTOM OF VAULT. SEE DETAIL SHEET 2 (1% MIN. SLOPE AWAY FROM VAULT)
- 2 EXISTING 7' BY 7' CONCRETE VAULT
- 3 EXISTING FORCE MAIN PIPES CONNECTED TO VAULT
- 4 CORE EXSITING VAULT TO INSTALL SCHEDULE 80 PVC PIPE. CONNECT PVC PIPE TO VAULT WITH KOR-N-SEAL BOOT OR LINK SEAL. SEE SHEET C2.0 FOR SECTION.
- 5 REPLACE EXISTING VAULT LID WITH NEW LID WITH HATCH

CONSTRUCTION LEGEND

- - - 1 - - - EXISTING CONTOUR (APPROXIMATE)
- EXISTING GUARDRAIL
- FM — EXISTING FORCE MAIN
- EL = 1.79 SPOT ELEVATION (APPRXIMATE)
- EXISTING ELECTRICAL PANEL FOR ACTUATOR CONTROL IN VAULT
- UG - UG - EXISTING UNDERGROUND ELECTRIC
- 67+00 EXISTING ROAD STATIONING



VICINITY MAP



INSTALL 4" PERFORATED DRAIN PIPE FROM BOTTOM OF FM TRENCH (12LF) AND CONNECT TO 4" PVC SOLID STORM PIPE

**SHEET C1.0
DRAIN PIPE
INSTALLATION
PLAN**

FOR BIDDING ONLY

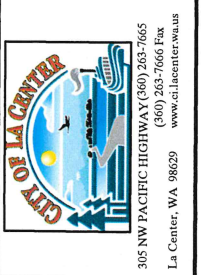
DESIGNED	ALC
DRAWN	ALC
CITY PROJECT #	
HOR.	
VERT.	
DATE	FEBRUARY 2019
DWG.	

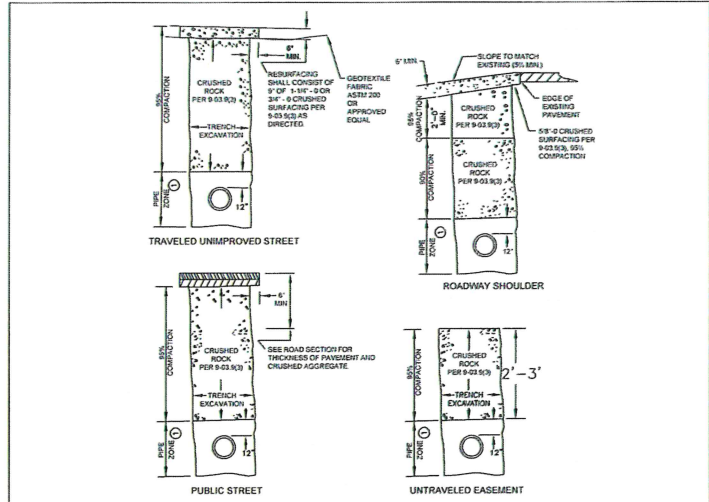
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NORTHWEST NOTIFICATION CENTER

2023 ACTUATOR VAULT
DRAIN PIPE INSTALLATION



REV #	REVISION	DATE

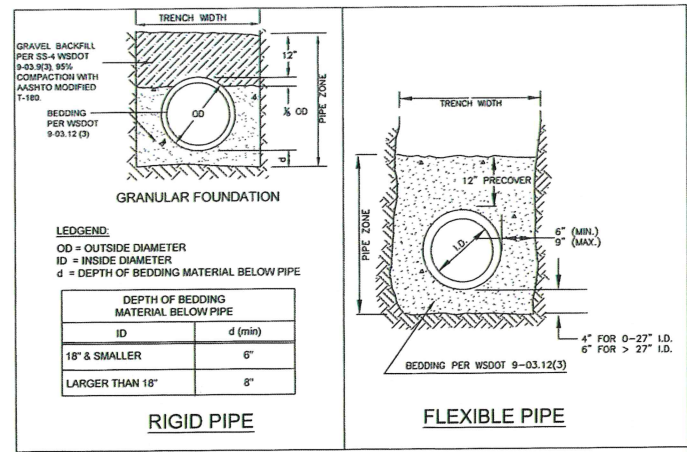




NOTES:

- FOR PIPE ZONE BEDDING REQUIREMENTS, SEE SS-5.
- COMPACTION PERCENTAGES REFER TO RELATIVE DRY DENSITY AS DETERMINED ACCORDING TO STANDARD SPECIFICATIONS SECTION 2-03.3(14)(D).
- CONTRACTOR MAY USE UP TO 2-1/2" OF 5/8" - 0 OR 3/4" - 0 CRUSHED AGGREGATE IN LIEU OF 1-1/4" - 0 BASE ROCK UNDER SURFACING FOR LEVELING COURSE.
- ALL EXISTING PAVED SURFACES SHALL BE SAW CUT A MINIMUM OF 6" OUTSIDE OF EDGE OF TRENCH TO PROVIDE A NEAT STRAIGHT EDGE.
- THE EDGES OF ALL EXISTING ASPHALT SURFACES SHALL BE CLEANED AND A TACK COAT SHALL BE APPLIED. A JOINT SEALER SHALL BE APPLIED AND SHALL CONFORM TO WSDOT STANDARD SPECIFICATIONS, (9-54). ALL JOINTS WILL BE SEALED AND SANDED.
- ALL BACKFILL SHALL BE MECHANICALLY COMPACTED IN LIFTS WHICH IN NO CASE EXCEED 12" LOOSE.

TYPICAL TRENCH BACKFILL				PLAN #
	CITY OF LA CENTER APPROVED	REVISIONS:	DATE:	SS-4
		DRAWN:	DESIGNED:	



NOTES:

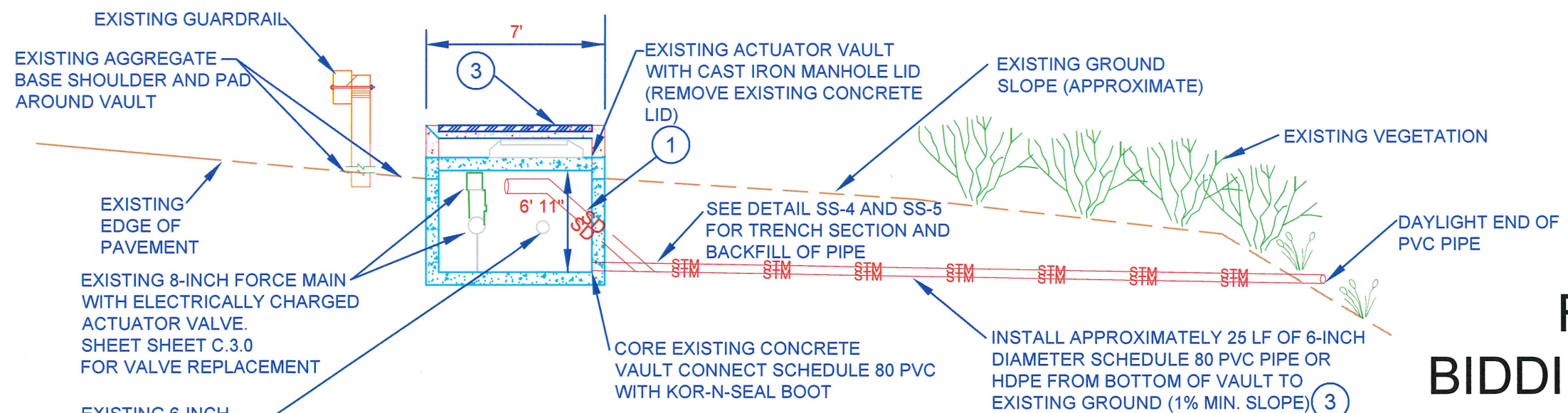
- WHERE DIRECTED BY THE PUBLIC WORKS DIRECTOR, CRUSHED ROCK PER WSDOT 9-03.12(3) STABILIZATION SHALL BE PLACED PRIOR TO PLACEMENT OF THE BEDDING. SIZE AND DEPTH ARE DEPENDENT ON SOIL CONDITIONS.
- BEDDING AND BACKFILL MATERIALS IN THE PIPE ZONE SHALL BE COMPACTED AS SPECIFIED PRIOR TO BACKFILLING THE REMAINDER OF THE TRENCH.
- FOR ROCK AND OTHER INCOMPRESSIBLE MATERIALS, THE TRENCH SHALL BE OVER EXCAVATED A MINIMUM OF 6" AND REFILLED WITH GRANULAR MATERIALS AS DIRECTED BY THE CITY ENGINEER.
- TRENCH WIDTH SHALL NOT EXCEED ONE AND ONE-HALF THE INSIDE DIAMETER OF THE PIPE PLUS 18" AT THE TOP OF THE PIPE ZONE.

PIPE BEDDING (RIGID AND FLEXIBLE PIPE)				PLAN #
	CITY OF LA CENTER APPROVED	REVISIONS:	DATE:	SS-5
		DRAWN:	DESIGNED:	
		1	11/16/18	

CONSTRUCTION NOTES:

GENERAL NOTES

- EXISTING UTILITIES ARE APPROXIMATE AND THE LOCATION SHOULD BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. THE EXACT LOCATION OF THE SOLAR PANEL LED SIGNS AND WIRELESS BOLLARD MAY NEED TO BE ADJUSTED IN THE FIELD FOLLOWING LOCATING AND POTHOLING UTILITIES.
- INSTALL 6-INCH PERFORATED PVC
 - INSTALL 6-INCH SOLID SCH. 80 PVC OR HDPE PIPE.
 - REMOVE EXISTING CONCRETE LID AND REPLACE WITH CONCRETE LID WITH 7' BY 7' LID WITH SPRING ASSISTED HATCH. PLACE SPACERS TO RAISE LID AT LEAST 1-FOOT ABOVE EXISTING GRADE.



VAULT AND PIPE SECTION

N.T.S.

FOR BIDDING ONLY

SHEET C2

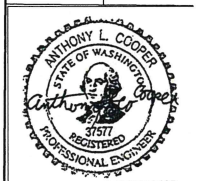
VAULT LID AND PIPE

DESIGNED	ALC
DRAWN	ALC
CITY PROJECT #	
HOR.	
VERT.	
DATE	FEBRUARY 2019
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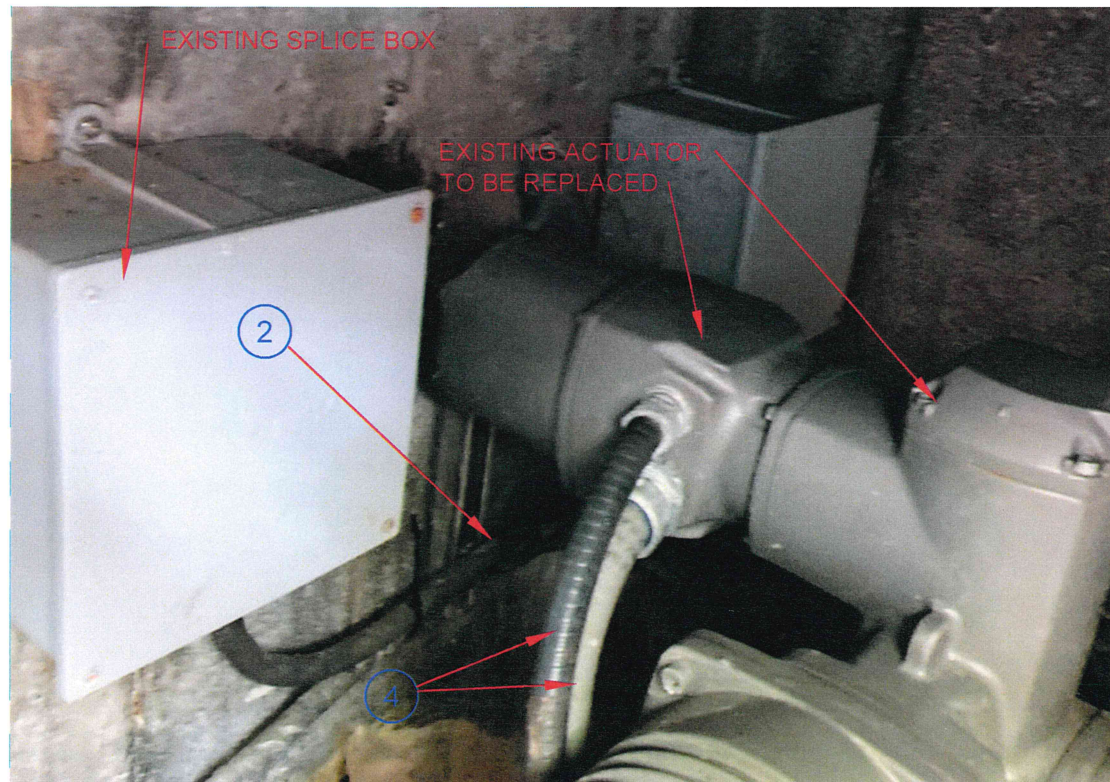
2023 ACTUATOR VAULT

DRAIN PIPE INSTALLATION



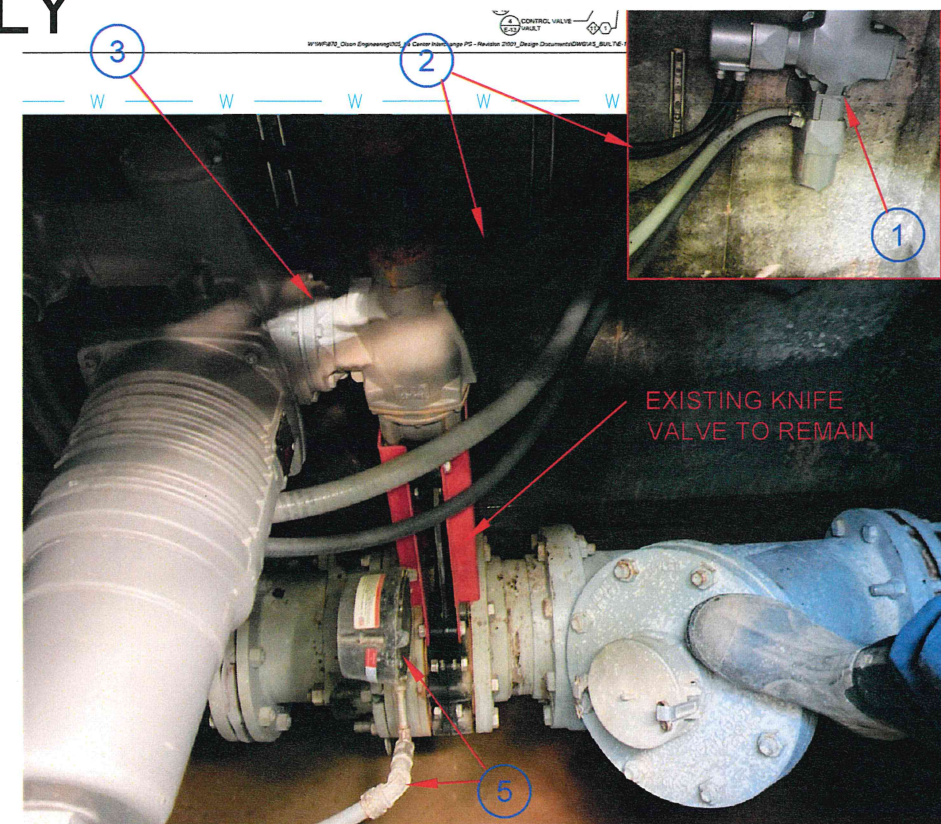
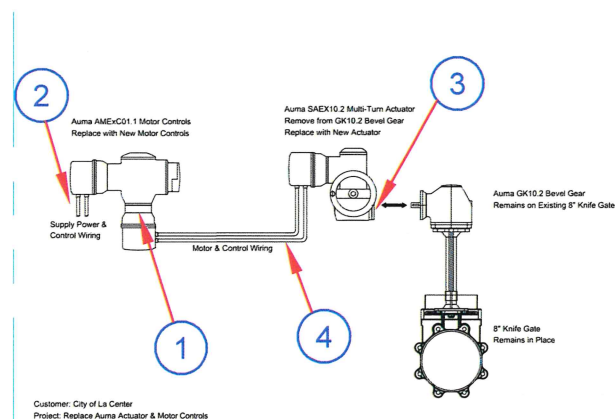
REV #	REVISION	DATE

305 NW PACIFIC HIGHWAY (360) 263-7665
La Center, WA 98629
www.ci.lacenter.wa.us



ACTUATOR VALVE SECTION 2

FOR BIDDING ONLY



ACTUATOR VALVE SECTION 1

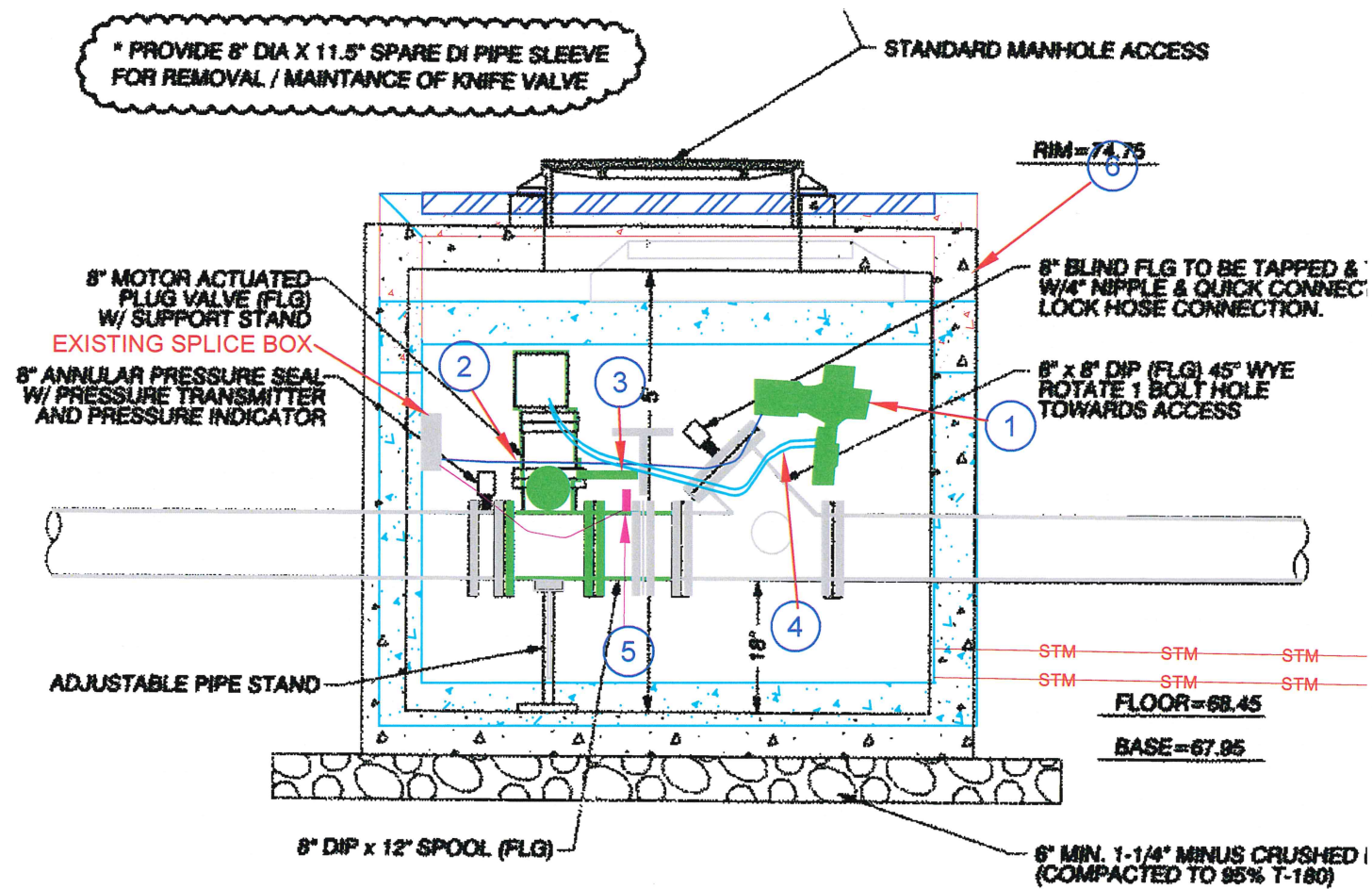
CONSTRUCTION NOTES:

GENERAL NOTES

EXISTING UTILITIES ARE APPROXIMATE AND THE LOCATION SHOULD BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.

- ① REMOVE EXISTING REMOTE ACCESS MOUNTED CONTROLS, AND REPLACE WITH NEW WALL MOUNTED CONTROLS.
- ② INSTALL NEW WIRING FROM REPLACED REMOTE ACCESS ASSEMBLY TO SPLICE BOX AND EXISTING CONTROL PANEL
- ③ REMOVE BOLTS TO ACTUATOR, AND INSTALL NEW ACTUATOR THAT IS SUPPLIED BY THE CITY.
- ④ WIRING FROM REMOTE ACCESS TO ACTUATOR VALVE INCLUDED IN MATERIALS.
- ⑤ EXISTING PRESSURE TRANSMITTER. CONTRACTOR TO CHECK EXISTING VALVE TO MAKE SURE IT IS WORKING PROPERLY.
- ⑥ REMOVE EXISTING 7' BY 7' VAULT LID AND REPLACE WITH NEW LID WITH 3' BY 6' HATCH. USE CONCRETE RISERS TO RAISE LID APPROXIMATELY 1-FOOT HIGHER

* PROVIDE 8" DIA X 11.5" SPARE DI PIPE SLEEVE FOR REMOVAL / MAINTANCE OF KNIFE VALVE



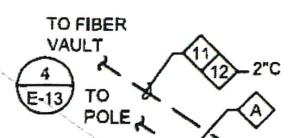
DESIGNED: ALC
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VERT.
DATE: FEBRUARY 2019
DWG:
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NORTHWEST UTILITIES NOTIFICATION CENTER
2023 ACTUATOR VAULT
DRAIN PIPE INSTALLATION
ANTHONY L. COOPER
STATE OF WASHINGTON
31571
REGISTERED PROFESSIONAL ENGINEER
DATE
REVISION
REV. #

SHEET C3.0 ACTUATOR VALVE INSTALLATION PLAN

GENERAL NOTE

SEE AUMA ELECTRICAL FIELD DRAWING FOR WIRING FROM REMOTED TO ACTUATOR AND CONTRACTOR WIRING

EXISTING ELECTRICAL PANEL (WIRE ACTUATOR AND PRESSURE TRANSMITTER AS NECESSARY)



CONTROL PANEL METERBASE PEDESTAL

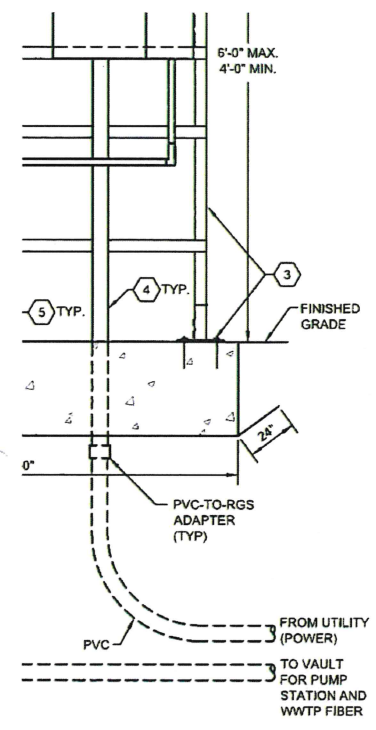
FUTURE VALVE ACTUATOR, PRESSURE TRANSMITTER, INDICATOR, AND PIPING

MANHOLE ACCESS

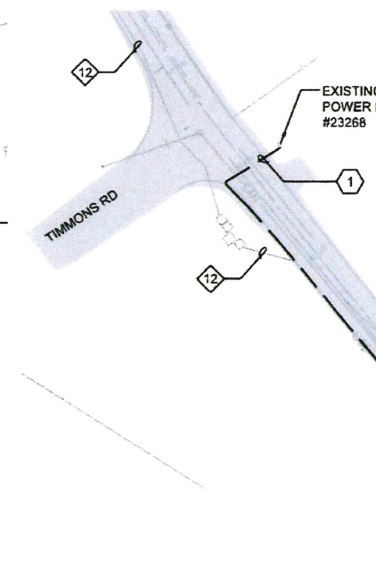
N.T.S.

GENERAL NOTE

A. INTERIOR OF VALVE VAULT IS CLASSIFIED AS A CLASS 1 DIV. 2 AREA. EXTERIOR OF VAULT IS UNCLASSIFIED.



TAL DETAIL



ALL CIRCUITS ARE IDENTIFIED ON THE PLANS WITH THE DIAMOND SYMBOL. CONDUCTOR SIZES ARE BASED ON COPPER CONDUCTORS. CONDUIT SIZES ARE SHOWN FOR CASES WHEN CIRCUIT CONDUCTORS ARE RUN WITHOUT OTHER CIRCUITS. MULTIPLE CIRCUITS RUN IN COMMON CONDUITS ARE SHOWN ON PLANS AND SUPERSEDE THE BASIC CONDUIT SIZE SHOWN.

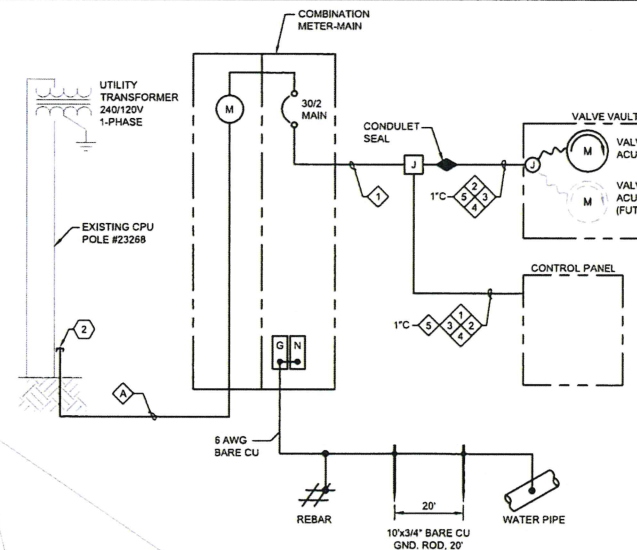
RACEWAY SIZES ARE IN INCHES WITH QUANTITIES IN EXCESS OF (1) SHOWN IN ADJACENT PARENTHESIS. CONDUCTOR CONFIGURATIONS ARE CODED AS FOLLOWS: P- FOR POWER CONDUCTORS, G- FOR GROUND CONDUCTORS, N- FOR NEUTRAL CONDUCTORS, C- FOR CONTROL CONDUCTORS, SP- FOR SPARE CONDUCTORS, AND TSP FOR TWISTED SHIELDED PAIR CONDUCTORS.

CIRCUITS REVISED SINCE LAST ISSUE ARE INDICATED BY AN ASTERISK(*).

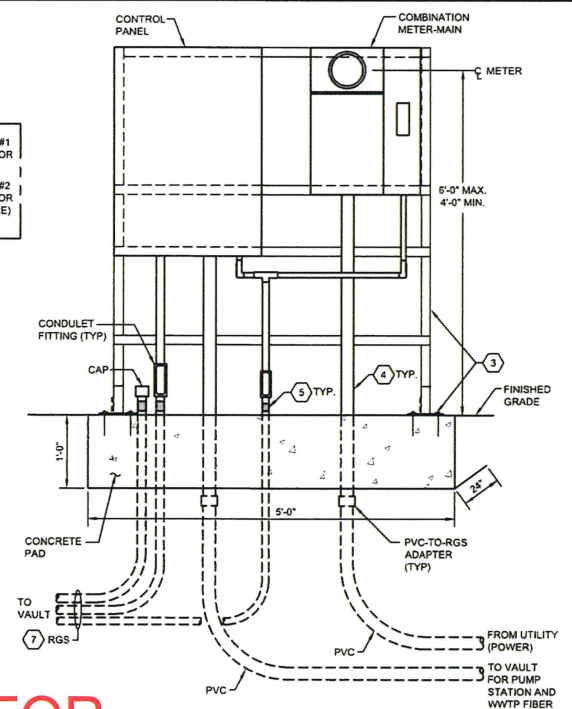
CIRCUIT NUMBER	FROM	TO	CONDUCTORS	RACEWAY	NOTES
A	EXISTING CPU POWER POLE	METERBASE/ MAIN CB	(2) 1/0 AWG, P (1) 1/0 AWG, N	2	COORDINATE WITH CPU
1	METERBASE/ MAIN CB	CONTROL PANEL	(1) #10 AWG, P (1) #10 AWG, N (1) #10 AWG, G	3/4"	
2	CONTROL PANEL	VALVE ACTUATOR #1	(1) #14 AWG, P (1) #14 AWG, N (1) #14 AWG, G	3/4"	POWER
3	CONTROL PANEL	VALVE ACTUATOR #2 (FUTURE)	(1) #14 AWG, P (1) #14 AWG, N (1) #14 AWG, G	3/4"	POWER (COIL IN J-BOX FOR FUTURE)
4	CONTROL PANEL	VALVE ACTUATOR #1	(3) #14 AWG, C (1) #12 AWG, G	3/4"	OPEN/CLOSE COMMAND
5	CONTROL PANEL	VALVE ACTUATOR #2 (FUTURE)	(3) #14 AWG, C (1) #12 AWG, G	3/4"	OPEN/CLOSE COMMAND (COIL IN J-BOX FOR FUTURE)
6	CONTROL PANEL	VALVE ACTUATOR #1	(4) #14 AWG, C (1) #12 AWG, G	3/4"	OPEN/CLOSE LIMIT SWITCHES
7	CONTROL PANEL	VALVE ACTUATOR #2 (FUTURE)	(4) #14 AWG, C (1) #12 AWG, G	3/4"	OPEN/CLOSE LIMIT SWITCHES (COIL IN J-BOX FOR FUTURE)
8	CONTROL PANEL	6" LINE PRESSURE XDCR	(1) 18 AWG, TSP	3/4"	
9	CONTROL PANEL	6" LINE PRESSURE XDCR (FUTURE)	(1) 18 AWG, TSP	3/4"	(COIL IN J-BOX FOR FUTURE)
10	CONTROL PANEL	VALVE VAULT	PULL CORD	1.25"	SPARE
11	CONTROL PANEL	CITY CENTER WWTP	6 PAIR, SINGLE-MODE FIBER OPTIC CABLE	2"	COORDINATE FINAL CONNECTION WITH CITY PERSONNEL. BELDEN FDS012P9 OR APPROVED.
12	CONTROL PANEL	PUMP STATION	6 PAIR, SINGLE-MODE FIBER OPTIC CABLE	2"	SEE DRAWING E-3 COMMUNICATION BLOCK DIA FOR REFERENCE

NOTES THIS SHEET

- CONTRACTOR TO BORE NEW CONDUIT UNDER LA CENTER RD AT TIMMONS RD FOR STREET CROSSING. NEW FEEDER RUN TO CONTINUE IN PROPOSED CPU TRENCH FOR NEW FIBER AND PRIMARY POWER RUN INTO DOWNTOWN LA CENTER. SEE DRAWINGS C3.4, C3.5, AND C5.0 FOR REFERENCE. COORDINATE WITH CPU.
- STUB CONDUIT AND COIL 25' CONDUCTORS AT BASE OF EXISTING CPU POLE FOR CPU TERMINATION.
- STRUT BRACING W/ SUPPORT BASE INSTALLED WITH CONCRETE EXPANSION ANCHORS.
- RGS CONDUITS (TYP). TRANSITION TO PVC BELOW GRADE FOR POWER CONDUIT ROUTED TO UTILITY AND FOR FIBER ROUTING.
- INSTALL POLYWATER ZIPSEAL DUCT SEALANT FOR SEALING OF CONDUITS. CONDUIT TO BE CONTINUOUS FROM BELOW GRADE TO CONDULET FITTING. SEALANT TO PROVIDE BOUNDARY FROM CLASS 1 DIV. 2 AREA.
- COIL CONDUCTORS FOR FUTURE VALVE CONNECTIONS INSIDE J-BOX. LEAVE CONDUCTORS LONG ENOUGH TO MAKE FUTURE CONNECTIONS WITHOUT SPLICING.
- CONDUITS ROUTED TO VAULT TO BE RGS. WRAP UNDERGROUND PORTIONS WITH BITUMASTIC TAPE, WITH 1/2-LAP OVERLAPS. ALTERNATIVELY, CONTRACTOR HAS THE OPTION OF PROVIDING PVC-COATED RGS FOR THESE CONDUITS.



1 ONE-LINE DIAGRAM E-13 NOT TO SCALE



2 PEDESTAL DETAIL E-13 NOT TO SCALE

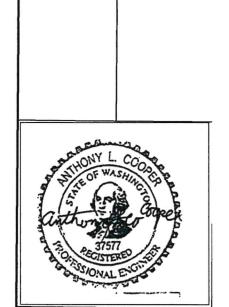
ELECTRICAL PANEL FOR ACTUATOR VALVE
(plans used for initial installation)

ELECTRICAL PLAN FOR ACTUATOR VALVE
(plans used for initial installation)

SHEET C4.0 ELECTRICAL WIRING PLAN
FOR BIDDING ONLY

DESIGNED	ALC
DRAWN	ALC
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