

ALTA VISTA, VISTA VIEW AND PLAZA DRIVE

ISSUED FOR BIDDING
 SEDRO WOOLLEY, SKAGIT COUNTY, WA
 P.N. 03632
 CO 4926
 JULY 29, 2025



PUBLIC UTILITY DISTRICT

NO. 1 OF SKAGIT COUNTY

DISTRICT OFFICIALS

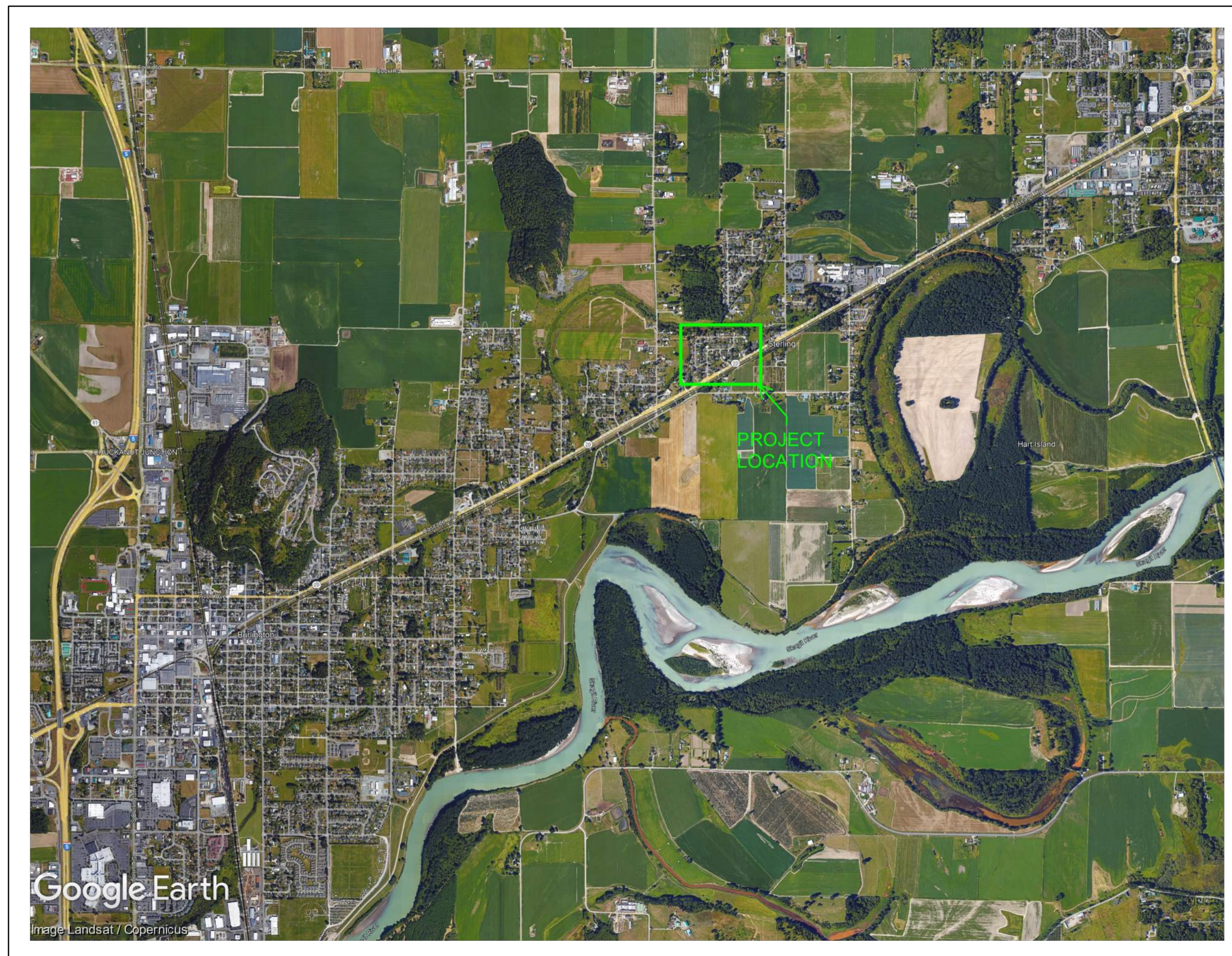
ANDREW MILLER	PRESIDENT
CORRIN HAMBURG	VICE PRESIDENT
JOE LINDQUIST	SECRETARY
GEORGE SIDHU, P.E.	GENERAL MANAGER
MARK C. HANDZLIK, P.E.	ENGINEERING MANAGER
MICHAEL FOX	OPERATIONS MANAGER

UTILITY CONTACTS

CASCADE NATURAL GAS 1520 SOUTH 2nd STREET MOUNT VERNON, WA 98273 CONTACT: JAMES HOBBS TEL: (360) 336-3876	FRONTIER COMMUNICATION 595 PEASE ROAD BURLINGTON, WA 98233 CONTACT: BRET MURDOCK TEL: (360) 707-0641
COMCAST XFINITY 400 SEQUOIA DRIVE BELLINGHAM, WA 98226 CONTACT: CASEY JONES TEL: (360) 527-8243	ATT FIBER OPTICS C/O SIENA ENGINEERING GROUP, INC. 11241 WILLOW RD NE, SUITE 130 REDMOND, WA 98052 CONTACT: LOUIE VAN HOLLEBEKE TEL: (425) 896-9850
PUGET SOUND ENERGY PO BOX 90868 - MAIL STOP BOT01G BELLEVUE, WA 98009-0868 CONTACT: CUSTOMER CONSTRUCTION SERVICES TEL: (888) 321-7779	

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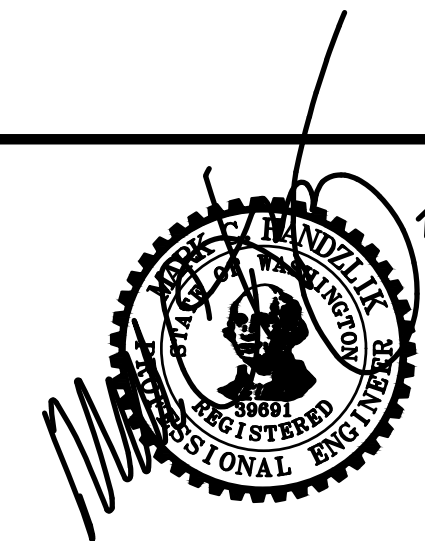
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VICINITY MAP 
 NOT TO SCALE

APPROVED FOR CONSTRUCTION _____ DATE _____
 SKAGIT COUNTY ENGINEER

ISSUE	REVISIONS	BY	DATE
1.	30% DESIGN	MCH	4/25/16
2.	90% DESIGN	MCH	12/21/17
3.	ISSUED FOR BIDDING	MCH	7/29/25



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 Mount Vernon, WA 98273
 (360) 424-7104
 www.SkagitPud.org

ALTA VISTA, VISTA VIEW AND PLAZA DR.

COVER

SCALE: NONE	P.N. 16-03632 C.O. 4926	SHEET: COVER
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SURVEY SYMBOLS

SYMBOL	DESCRIPTION	BLOCK	LAYER
⊙	MONUMENT	SMON	SV-CTRL-EXST-SYM
⊕	MONUMENT IN CASE	SMIC	SV-CTRL-EXST-SYM
⊗	REBAR & CAP	RCS	SV-CTRL-EXST-SYM
△	SCRIBED "X"	SAP	SV-CTRL-EXST-SYM
X	PK NAIL	PK	SV-CTRL-EXST-SYM
B-101	SOIL BORING	BORE	SV-SOIL-EXST-SYM
TP-101	SOIL TEST PIT	TP	SV-SOIL-EXST-SYM
⊗	UTILITY POTHOLE/ GROUND WATER MONITORING WELL	P_SSB	UT-MISC-EXST-SYM

SURFACE FEATURE SYMBOLS

SYMBOL	DESCRIPTION	BLOCK	LAYER
⊥	METAL SIGN POST	E1S1	SF-SIGN-EXST-SYM
⊥	WOOD SIGN POST	SFSN	SF-SIGN-EXST-SYM
GTP ⊙	GATE POST	POST	SF-FENC-EXST-SYM
★	CONIFEROUS TREE	SFC	SF-VEGE-EXST-SYM
○	DECIDUOUS TREE	SFD	SF-VEGE-EXST-SYM
⊕	BUSH/SHRUB	PUDBUSH	SF-VEGE-EXST-SYM
⊙	STUMP	STUMP	SF-VEGE-EXST-SYM

UTILITY SYMBOLS

SYMBOL	DESCRIPTION	BLOCK	LAYER
⊙	SANITARY SEWER MANHOLE	PUDMH	SS-STCR-EXST-SYM
⊕	STORM DRAIN MANHOLE	SDMH	SD-STCR-EXST-SYM
□	CATCH BASIN	CBIN	SD-STCR-EXST-SYM
⊕	INLET/YARD DRAIN	SDGI	SD-STCR-EXST-SYM
⊕	GAS VALVE	GV	GS-VALV-EXST-SYM
⊕	GAS METER	P_GMET	GS-VALV-EXST-SYM
TR ⊕	TRAFFIC JUNCTION BOX	TJB1	TF-STCR-EXST-SYM
EL ⊕	ELEC. JUNCTION BOX	TJB1	PO-STCR-EXST-SYM
PM ⊕	POWER METER	EM	PO-STCR-EXST-SYM
TC ⊕	TELECOM. JUNCTION BOX	TJB1	TL-STCR-EXST-SYM
TV ⊕	CABLE TV JUNCTION BOX	TJB1	TV-STCR-EXST-SYM
⊕	JUNCTION BOX	TJB1	UT-STCR-EXST-SYM
T ⊕	TELEPHONE RISER	TEL R	TL-STCR-EXST-SYM
⊕	UTILITY POLE	UP	PO-STCR-EXST-SYM
UG ⊕	UTILITY POLE W/CONDUIT	UP	PO-STCR-EXST-SYM
←	GUY ANCHOR	UPA	PO-STCR-EXST-SYM
GP ⊕	GUY POLE	GUP	PO-STCR-EXST-SYM
▲	TRANSFORMER	TRAN	PO-STCR-EXST-SYM
P	POWER VAULT	POWRV	PO-STCR-EXST-SYM
⊕	TRANSMISSION TOWER	PTWR	PO-STCR-EXST-SYM
T	TELEPHONE VAULT	TV	TL-STCR-EXST-SYM
→	PEDESTRIAN SIGNAL HEAD	TPSH	TF-SIGL-EXST-SYM
⊕	PEDESTRIAN SIGNAL BUTTON	TPB	TF-SIGL-EXST-SYM
⊕	TRAFFIC SIGNAL POLE W/LIGHT	TSPL	TF-SIGL-EXST-SYM
⊕	LUMINAIRE	TSLA	PO-STCR-EXST-SYM
⊕	YARD LIGHT	SFL	PO-STCR-EXST-SYM
MW	MONITORING WELL		UT-STCR-EXST-SYM
⊕	WATER MANHOLE	WMH	WA-STCR-EXST-SYM
SH ⊕	SPRINKLER HEAD	SPRHD	WA-MISC-EXST-SYM
IRBX ⊕	IRRIGATION BOX	ICV	WA-MISC-EXST-SYM

WATER SYMBOLS

SYMBOL	DESCRIPTION	BLOCK	LAYER
EXIST.]			USE EXST/PROP
⊕	CAP/PLUG	X_CAP/P_CAP	WA-FITT-XXXX-SYM
⊕	COUPLING	X_COUP/P_COUP	WA-FITT-XXXX-SYM
⊕	GUARD POST	X_GPOST/P_GPOST	WA-FITT-XXXX-SYM
⊕	REDUCER	X_RED/P_RED	WA-FITT-XXXX-SYM
⊕	THRUST BLOCK	X_TB/P_TB	WA-FITT-XXXX-SYM
⊕	WATER METER	X_MTR/P_MTR	WA-METR-XXXX-SYM
FIRE HYDRANTS:			
⊕	2 NOZZLE	X_HYD2/P_HYD2	WA-FHYD-XXXX-SYM
⊕	3 NOZZLE	X_HYD3/P_HYD3	WA-FHYD-XXXX-SYM
JOINTS:			
⊕	FLANGE/BLIND FL	X_FL/P_FL	WA-FITT-XXXX-SYM
⊕	MECHANICAL	X_MJ/P_MJ	WA-FITT-XXXX-SYM
⊕	PUSH-ON/HUB	X_PHUB/P_PHUB	WA-FITT-XXXX-SYM
⊕	THREAD	X_THREAD/P_THREAD	WA-FITT-XXXX-SYM
VALVES			
⊕	AIR RELIEF VALVE	X_AR/P_AR	WA-VALV-XXXX-SYM
⊕	BLOW-OFF VALVE	X_BO/P_BO	WA-VALV-XXXX-SYM
⊕	BUTTERFLY VALVE	X_BFV/P_BFV	WA-VALV-XXXX-SYM
⊕	CHECK VALVE	X_CV/P_CV	WA-VALV-XXXX-SYM
⊕	GATE VALVE	X_GV/P_GV	WA-VALV-XXXX-SYM
⊕	PLUG VALVE	X_PLUGV/P_PLUGV	WA-VALV-XXXX-SYM
ELBOWS			
⊕	90° ELBOW MjxMj		WA-FITT-XXXX-SYM
⊕	45° ELBOW MjxMj		WA-FITT-XXXX-SYM
⊕	22.5° ELBOW MjxMj		WA-FITT-XXXX-SYM
⊕	11.25° ELBOW MjxMj		WA-FITT-XXXX-SYM
⊕	CROSS MjxMj		WA-FITT-XXXX-SYM
⊕	TEE MjxMj		WA-FITT-XXXX-SYM
⊕	VERTICAL ELBOW MjxMj		WA-FITT-XXXX-SYM
⊕	45° ELBOW MjxFL		WA-FITT-XXXX-SYM
⊕	22.5 ELBOW MjxFL		WA-FITT-XXXX-SYM
⊕	11.25° ELBOW MjxFL		WA-FITT-XXXX-SYM
⊕	CROSS MjxFL		WA-FITT-XXXX-SYM
⊕	TEE MjxFL		WA-FITT-XXXX-SYM
⊕	CROSS FLxFL		WA-FITT-XXXX-SYM
⊕	TEE FLxFL		WA-FITT-XXXX-SYM
⊕	VERTICAL MjxFL		WA-FITT-XXXX-SYM
⊕	TAPPING SLEEVE		WA-FITT-XXXX-SYM

NOTATION SYMBOLS

SYMBOL	DESCRIPTION	BLOCK	LAYER
⊕	CATHODIC PROTECTION TEST STATION	CATH	G-ANNO-PROP-SYM
⊕	CHANGE IN PIPING MATERIAL	PMAT	G-ANNO-PROP-SYM
⊕	TRENCH BACKFILL AND SURFACE RESTORATION CODE	KEYNOTE	G-ANNO-PROP-SYM
⊕	CONSTRUCTION NOTE	KEYNOTES	G-ANNO-PROP-SYM

TEXT

DESCRIPTION	HEIGHT	LAYER
1+00 ROAD STATIONING	.10	SV-CNTL-EXST-TXT
P77481 PARCEL NUMBER	.20	SV-PRCL-EXST-TXT
702 ADDRESS	.15	G-MISC-EXST-TXT
8" DI 1944 CO3122 WATERLINE LABEL	.10	WA-MAIN-PROP-TXT

LINE TYPES

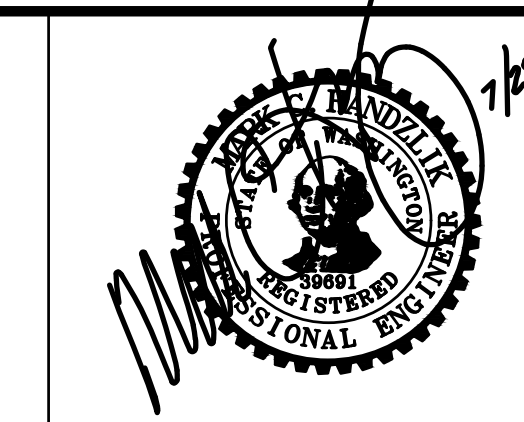
LINE TYPE	DESCRIPTION	LAYER
— GAS —	GENERIC GAS LINE	GS-PLIN-EXST-LIN
— GAS —	HIGH PRESSURE GAS	GS-PLIN-EXST-LIN
— GAS —	LOW PRESSURE GAS	GS-PLIN-EXST-LIN
— IRR —	IRRIGATION	WA-IRRI-EXST-LIN
— SD —	STORM DRAIN	SD-GLIN-EXST-LIN
=====	EXISTING CULVERT	SD-CULV-EXST-LIN
— SS —	SANITARY SEWER	SS-GLIN-EXST-LIN
— SS —	SS FORCEMAIN	SS-PLIN-EXST-LIN
— W — W —	WATER LINE	WA-PLIN-EXST-LIN
— UGE —	UNDERGROUND POWER	PO-BLIN-EXST-LIN
— UGT —	UNDERGROUND FIBER OPTIC	TL-BLIN-EXST-LIN
— UGT —	UNDERGROUND TELEPHONE	TL-BLIN-EXST-LIN
— UGT —	UNDERGROUND TELEVISION	TV-BLIN-EXST-LIN
— OHE —	OVERHEAD ELECTRIC	PO-ALIN-EXST-LIN
— OHF —	OVERHEAD FIBER OPTIC	TL-ALIN-EXST-LIN
— OHF —	OVERHEAD TELEPHONE	TL-ALIN-EXST-LIN
— OHTV —	OVERHEAD TELEVISION	TV-ALIN-EXST-LIN
~~~~~	VEGETATION LINE	SF-VEGE-EXST-LIN
---	EDGE OF GRAVEL	SF-GRVL-EXST-LIN
---	EDGE OF ASPHALT	SF-ASPH-EXST-LIN
---	CURB/CONCRETE LINE	SF-CONC-EXST-LIN
---	DITCH FLOWLINE	SF-DTCH-EXST-LIN
— X — X —	EXISTING FENCE	SF-FENC-EXST-LIN
---	TOP/TOE OF SLOPE	SF-GRAD-EXST-LIN
	RAILROAD TRACKS	SF-RAIL-EXST-LIN
---	CENTERLINE	SV-CNTL-EXST-LIN
---	RIGHT OF WAY	SV-ROFW-EXST-LIN
---	EASEMENT LINE	SV-ESMT-EXST-LIN
---	PROPERTY LINE	SV-PROP-EXST-LIN
---	PROPOSED WATERLINE	WA-PLIN-PROP-LIN
---	PROPOSED METER LINE	WA-METR-PROP-LIN
---	RECLAIMED WATER LINE	WA-RCW-EXST-LIN
---	VICINITY MAP	SF-VICINITY-C127
⚡	SHUTOFF DETAIL LINES	VARIES

**HATCHING**

DESCRIPTION	LAYER
ASPHALT - SOLID	SF-ASPH-EXST-HCH
GRAVEL - AR-SAND, 0', SCALE=1.6667	SF-FEAT-EXST-HCH
CONCRETE - AR-CONC, 0', SCALE=1.6667	SF-FEAT-EXST-HCH
WETLAND - GRASS, 0', SCALE=.10 OF DWG SCALE	SF-FEAT-EXST-HCH
<b>PAVEMENT RESTORATION:</b>	
TEMP PVMT. PATCH - DASH, 0', SCALE=0.30 OF DWG SCALE	SF-ASPH-PROP-HCH



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ALTA VISTA, VISTA VIEW AND PLAZA DR.	
LEGEND	
SCALE: 1"=20'	P.N. 16-03632 SHEET: 1 OF 16

# DISTRICT STANDARD GENERAL NOTES

(Minimum Requirements)

- UNLESS STATED OTHERWISE, ALL WORK IS TO BE PERFORMED IN ACCORDANCE WITH THE MOST CURRENT WASHINGTON STATE DEPARTMENT OF TRANSPORTATION (WSDOT) STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION AND THE DISTRICT REQUIREMENTS AS OUTLINED IN THE DISTRICT'S WATER POLICY MANUAL.
- THE CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION CONFERENCE WITH THE DISTRICT ENGINEERING DEPARTMENT, (360) 424-7104, A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION.
- PERMITS FOR THE INSTALLATION OF THE PROPOSED WATER SYSTEM IMPROVEMENTS ARE ATTACHED IN APPENDIX B OF THE TECHNICAL SPECIFICATIONS.
- DISTRICT REFERENCE DOCUMENTS, SUCH AS STANDARD DETAILS, WATER POLICY MANUAL, DRAWING STANDARDS, ETC., CAN BE FOUND ON THE DISTRICT WEBSITE AT WWW.SKAGITPUD.ORG.
- ALL TIE-INS, SHUTDOWN, FLUSHING, AND HEALTH SAMPLES SHALL BE COORDINATED WITH THE DISTRICT. THE CONTRACTOR SHALL NOT OPERATE ANY VALVES. CONTRACTOR SHALL FURNISH ALL MATERIALS AND PERFORM ALL EXCAVATION, SHORING, DEWATERING, BACKFILL AND RESTORATION NECESSARY FOR DISTRICT CREWS TO PERFORM ALL TIE-INS TO ANY ACTIVE PUD OWNED AND OPERATED PIPELINE.
- A LIST OF ALL MATERIALS, INDICATING THE MANUFACTURER, MODEL, AND SIZE, FOR THE WATER SYSTEM IMPROVEMENTS REQUIRE APPROVAL BY THE DISTRICT PRIOR TO CONSTRUCTION. CONTACT DISTRICT FOR SUBMITTAL REQUIREMENTS.
- PIPE MATERIAL:
  - PVC PIPE SHALL BE IN ACCORDANCE WITH SECTION C909-16 OF THE AWWA STANDARDS.
  - DUCTILE IRON PIPE WILL BE MINIMUM CLASS 50 AWWA C151 PER WSDOT STANDARD SPECIFICATIONS 9-30.1 AND 9-30.1(1). ALL DUCTILE IRON WATER PIPE AND FITTINGS SHALL BE COMPLETELY WRAPPED WITH A MINIMUM OF EIGHT-MIL POLYETHYLENE PIPE ENCASEMENT AND INSTALLED IN ACCORDANCE WITH AWWA C105 AND WSDOT STANDARD SPECIFICATIONS 7-09.3(17) AND 9-30.1(2).
  - PVC PIPE SHALL BE IN ACCORDANCE WITH SECTION 9-30.1(5)A OF THE STANDARD SPECIFICATIONS.
- ALL BOLTS USED IN BURIED FLANGES SHALL BE ASTM A307 GRADE B UNFINISHED WITH NUTS TO ASTM A563 GRADE A AND WASHERS TO ASTM F844, OR ASTM A325 TYPE 3 (CORTEN STEEL) UNFINISHED, WITH NUTS TO ASTM A563C3 OR A563DH3 AND WASHERS TO ASTM F436-1. ALL BOLTS, NUTS AND WASHERS USED IN EXPOSED OR ABOVE GROUND LOCATIONS SHALL BE ASTM A307 GRADE B UNFINISHED OR HOT-DIP GALVANIZED.
- ALL GATE VALVES TO BE RESILIENT SEATED GATE VALVES, AWWA C515 OR C509 (DUCTILE IRON BODY ONLY) WITH STAINLESS STEEL NUTS, BOLTS AND TRIM.
- ALL BUTTERFLY VALVES TO BE RUBBER SEATED BUTTERFLY VALVES, AWWA C504 WITH STAINLESS STEEL NUTS, BOLTS AND TRIM.
- RESTRAINED JOINTS MAY BE USED IN PLACE OF CONCRETE BLOCKING AS DIRECTED BY THE PROJECTS DESIGN ENGINEER AND ACCEPTED BY THE DISTRICT.
- ALL BURIED DUCTILE IRON FITTING AND VALVES SHALL BE WRAPPED WITH ANTI CORROSION WAX/PETROLEUM TAPE BY TRENTON ANTICORROSION MATERIALS INC, DENSO NORTH AMERICA INC OR EQUAL.
- ALL FIRE HYDRANTS SHALL CONFORM TO AWWA C502 WITH STORZ ADAPTORS. ACCEPTABLE FIRE HYDRANTS INCLUDE CLOW MEDALLION, MUELLER CENTURION OR SUPER CENTURION, AMERICAN DARLING B62B AND AMERICAN AVK NOSTALGIC.
- A #10 SOLID COPPER WIRE WITH BLUE INSULATION IS TO BE INSTALLED WITH/AND ATTACHED TO ALL NEW WATER PIPELINES AND SERVICE PIPELINES. REFER TO DISTRICT DETAILS FOR INSTALLATION REQUIREMENTS. UNLESS OTHERWISE SPECIFIED, ALL WATER PIPELINE INSTALLATIONS REQUIRE A 36-INCH MINIMUM COVER AND 48-INCH TYPICAL TRENCH DEPTH TO EXISTING OR FUTURE FINISH GRADE AND A MINIMUM OF 1-FOOT VERTICAL AND 5-FOOT HORIZONTAL CLEARANCE BETWEEN WATER PIPELINE AND ALL OTHER UTILITIES UNLESS OTHERWISE SPECIFIED.
- WHEN INSTALLING WATER PIPELINE ACROSS EXISTING OR PROPOSED SANITARY SEWER, A FULL LENGTH OF PIPE SHALL BE INSTALLED WITH MID-SPAN OF THE WATER PIPE OVER THE SEWER. A MINIMUM 10-FOOT HORIZONTAL SEPARATION AND 18-INCH VERTICAL SEPARATION BETWEEN WATER PIPELINES AND SANITARY SEWER PIPELINES IS REQUIRED, UNLESS AN ALTERNATIVE PROPOSAL FROM THE DESIGN ENGINEER IS SUBMITTED TO AND APPROVED BY THE DISTRICT.
- BEDDING MATERIAL FOR WATER PIPELINE SHALL BE SELECT, NATIVE, GRANULAR MATERIAL FREE FROM WOOD WASTE, ORGANIC MATERIAL OR OTHER EXTRANEIOUS OR OBJECTIONABLE MATERIALS AND SHALL BE A MAXIMUM SIZE OF 1 1/2-INCHES OR APPROVED PIPE BEDDING PER WSDOT SPECIFICATION 7-09.3(9) AND 9-03.12(3). PEA GRAVEL AND BUCKSHOT ARE NOT ACCEPTABLE.
- BACKFILL TRENCHES IN PAVEMENT AREAS WITH PIT-RUN GRAVEL COMPACTED TO AT LEAST 95 PERCENT MINIMUM DENSITY PER WSDOT SPECIFICATION 7-09.3(11). THE CONTRACTOR SHALL MAKE ALL PAVEMENT REPAIRS AND PERFORM ALL RESTORATION.
- DISINFECTION AND FLUSHING OF THE WATER PIPELINES ARE TO BE IN ACCORDANCE WITH SKAGIT PUD'S WATERLINE DISINFECTION AND TESTING PROCEDURES AVAILABLE ON THE PUD'S WEBSITE. USE DECHLORINATION EQUIPMENT WHEN FLUSHING OR, WITH PERMISSION OF THE APPROPRIATE SEWER UTILITY, FLUSH INTO SANITARY SEWER MANHOLES. DO NOT FLUSH INTO OR ALLOW CHLORINATED WATER TO DRAIN INTO ANY CREEK, WETLAND, OR CATCH BASIN. THE CONTRACTOR WILL SUBMIT A PRESSURE TESTING, DISINFECTION, AND FLUSHING PLAN TO THE DISTRICT PRIOR TO CONSTRUCTION.
- ALL SALVAGED USABLE DISTRICT OWNED MATERIALS ARE TO BE DELIVERED TO THE DISTRICT OFFICE AT 1415 FREEWAY DRIVE, MOUNT VERNON, OR AS DIRECTED BY THE DISTRICT.
- THE UTILITY LOCATIONS MARKED ON THIS MAP ARE APPROXIMATE. THE CONTRACTOR IS TO VERIFY ACTUAL LOCATION AND DEPTH PRIOR TO CONSTRUCTION. CALL THE UNDERGROUND UTILITY LOCATE CENTER AT 800-424-5555.
- ALL PRIVATE FIRE SPRINKLERS OR PRIVATE FIRE HYDRANT PIPELINES ARE REQUIRED TO BE INSTALLED WITH A WASHINGTON STATE DEPARTMENT OF HEALTH (WSDOH) APPROVED DOUBLE CHECK DETECTOR ASSEMBLY(IES) OR REDUCED PRESSURE DETECTOR ASSEMBLY(IES), LOCATED IMMEDIATELY AFTER THE FIRE SERVICE CONNECTION. A BADGER RECORDALL METER WITH A REMOTE TOUCH-READ PAD WILL BE SUPPLIED AND INSTALLED BY THE DISTRICT WITHIN 6-INCHES OF THE VAULT LID'S HINGE AND BRASS PLUGS IN THE TEST PORTS. METER SUPPLY AND INSTALLATION WILL BE INCLUDED WITH THE CHARGES IN THE WORK ORDER.
- A LEAD FREE, WASHINGTON STATE APPROVED, REDUCED PRESSURE BACKFLOW PREVENTION ASSEMBLY SHALL BE INSTALLED AT TEMPORARY CONNECTIONS BETWEEN THE EXISTING DISTRICT PIPELINES AND NEW WATER PIPELINES FOR FILLING, FLUSHING AND PRESSURE TESTING OF THE IMPROVEMENTS. UPON TEMPORARY CONNECTION, AND PRIOR TO FILLING, THE ASSEMBLY SHALL HAVE BEEN SUCCESSFULLY TESTED BY A BACKFLOW ASSEMBLY TESTER (BAT) AND THE TEST REPORT IS TO BE PROVIDED TO THE DISTRICT.
- BEFORE FINAL CONNECTION TO THE EXISTING DISTRICT SYSTEM, ALL NEW WATER PIPELINES AND REPAIRED PORTIONS OF/OR EXTENSION TO EXISTING PIPELINES SHALL BE ADEQUATELY DISINFECTED AND A SATISFACTORY BACTERIOLOGICAL REPORT OBTAINED.
- PRESSURE TEST NEW PIPELINE, INCLUDING FIRE HYDRANTS AND SERVICE LINES AS IN ACCORDANCE WITH SKAGIT PUD'S WATERLINE DISINFECTION AND TESTING PROCEDURES AVAILABLE ON THE PUD'S WEBSITE.

STATION _____  
 TEST DATE _____ TEST PRESSURE _____  
 TIME START _____ TIME END _____  
 PRESSURE DROP _____ MAKE-UP WATER _____

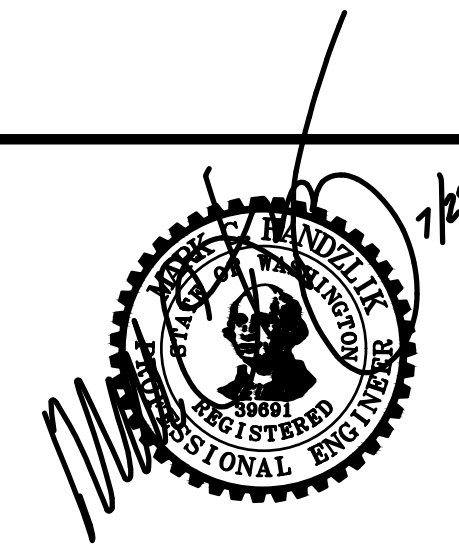
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ALTA VISTA, VISTA VIEW AND PLAZA DR.

GENERAL NOTES

SCALE: NONE

P.N. 16-03632	SHEET:
C.O. 4926	2 OF 16

# CONSTRUCTION NOTES

- VERIFY THE LOCATIONS, ELEVATIONS, DIAMETERS, MATERIALS, AND OTHER PARAMETERS OF EXISTING FACILITIES TO WHICH NEW FACILITIES CONNECT BEFORE BEGINNING ANY WORK.
- VERIFY INVERT ELEVATION OF EXISTING UTILITIES BY POTHOLING A MINIMUM OF 200 FEET AHEAD OF WATERLINE INSTALLATION.
- PROTECT ALL EXISTING UTILITIES, SERVICE CONNECTIONS AND ALL SURFACE IMPROVEMENTS. CONTRACTOR SHALL REPAIR ALL SERVICE CONNECTIONS WHETHER SHOWN ON THESE PLANS OR NOT.
- PROTECT ALL EXISTING UTILITIES AND SURFACE IMPROVEMENTS. CONTRACTORS SHALL COORDINATE WITH PROPERTY OWNERS DURING CONSTRUCTION TO AVOID DAMAGING EXISTING FACILITIES. CONTRACTOR SHALL BE RESPONSIBLE TO IDENTIFY AND LOCATE ALL EXISTING UTILITIES ON PRIVATE PROPERTY.
- CONSTRUCTION ACTIVITIES SHALL NOT EXTEND BEYOND THE LIMITS SHOWN IN THE PLANS WITHOUT PRIOR APPROVAL OF THE ENGINEER.
- CONTRACTOR TO COORDINATE WORK WITH & WITHIN APPROVED TRAFFIC CONTROL PLANS.
- REFER TO EROSION AND SEDIMENTATION CONTROL DRAWINGS FOR PROTECTION REQUIREMENTS.
- CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTING, MAINTAINING AND REMOVING TEMPORARY ACCESS ROADS AND RESTORATION OF CONSTRUCTION AREAS TO PRE-CONSTRUCTION CONDITION OR BETTER.
- PROVIDE AND MAINTAIN TEMPORARY PAVEMENT MARKINGS UNTIL PERMANENT MARKINGS RESTORATION. PROVIDE PERMANENT RESTORATION OF PAVEMENT MARKINGS AFTER PAVEMENT RESTORATION IS COMPLETED.
- SUPPORT POWER AND TELEPHONE POLES DURING PIPELINE INSTALLATION. COORDINATE WITH PUGET SOUND ENERGY TO PROVIDE TEMPORARY GUYS OR SUPPORTS AS NECESSARY.
- EXCESS TRENCH MATERIALS MUST BE HAULED OFF SITE. NO SPOILS SHALL BE SPREAD IN WETLANDS OR WETLAND BUFFERS. NO MATERIALS SHALL BE STOCKPILED IN WETLANDS OR WETLAND BUFFERS.
- REMOVE AND REPLACE ALL MAILBOXES AS REQUIRED FOR CONSTRUCTION OF THE PIPELINE.
- REMOVE AND REPLACE ALL TRAFFIC AND ROADWAY SIGNS AS REQUIRED FOR CONSTRUCTION.
- MINIMUM 12-INCH SAND CUSHION IS DESIRED BETWEEN WATERLINE AND EXISTING PIPELINES OR OTHER CONDUITS WHEN ENCOUNTERED DURING CONSTRUCTION. NOTIFY DISTRICT INSPECTOR IF LESS THAN 12-INCHES OF CUSHION WILL OCCUR.
- TURBID WATER GENERATED FROM CONSTRUCTION ACTIVITIES, INCLUDING TURBID DEWATERING WATER, SHALL NOT BE DISCHARGED DIRECTLY TO ANY SURFACE WATER. TEMPORARY SEDIMENT PONDS OR BAKER TANKS SHALL BE USED, AS NECESSARY, TO ALLOW THE TURBID WATER TO SETTLE BEFORE DISCHARGE. DEWATERED GROUNDWATER CAN BE TREATED USING BAKER TANKS ONSITE OR TREATED AND DISPOSED OFFSITE, UPON APPROVAL OF ENGINEER, AND PER APPLICABLE RULES AND GUIDELINES OF DEPARTMENT OF ECOLOGY AND OTHER REQUIREMENTS OF APPLICABLE JURISDICTIONS.
- CONTRACTOR TO EXPOSE ENTIRE EX. METER BOX AND SETTER FOR PUD CONNECTIONS.



ISSUE	REVISIONS	BY	DATE
1.	30% DESIGN	MCH	4/25/16
2.	90% DESIGN	MCH	12/21/17
3.	ISSUED FOR BIDDING	MCH	7/29/25



DATUM:	DSGN BY: CAS
HOR: NAD 83	DWN BY: JLB
VERT: NAVD 88	APPVD BY: MCH
DATE PRINTED:	SEC: 27
	TWP: 35 N
	RGE: 4 E



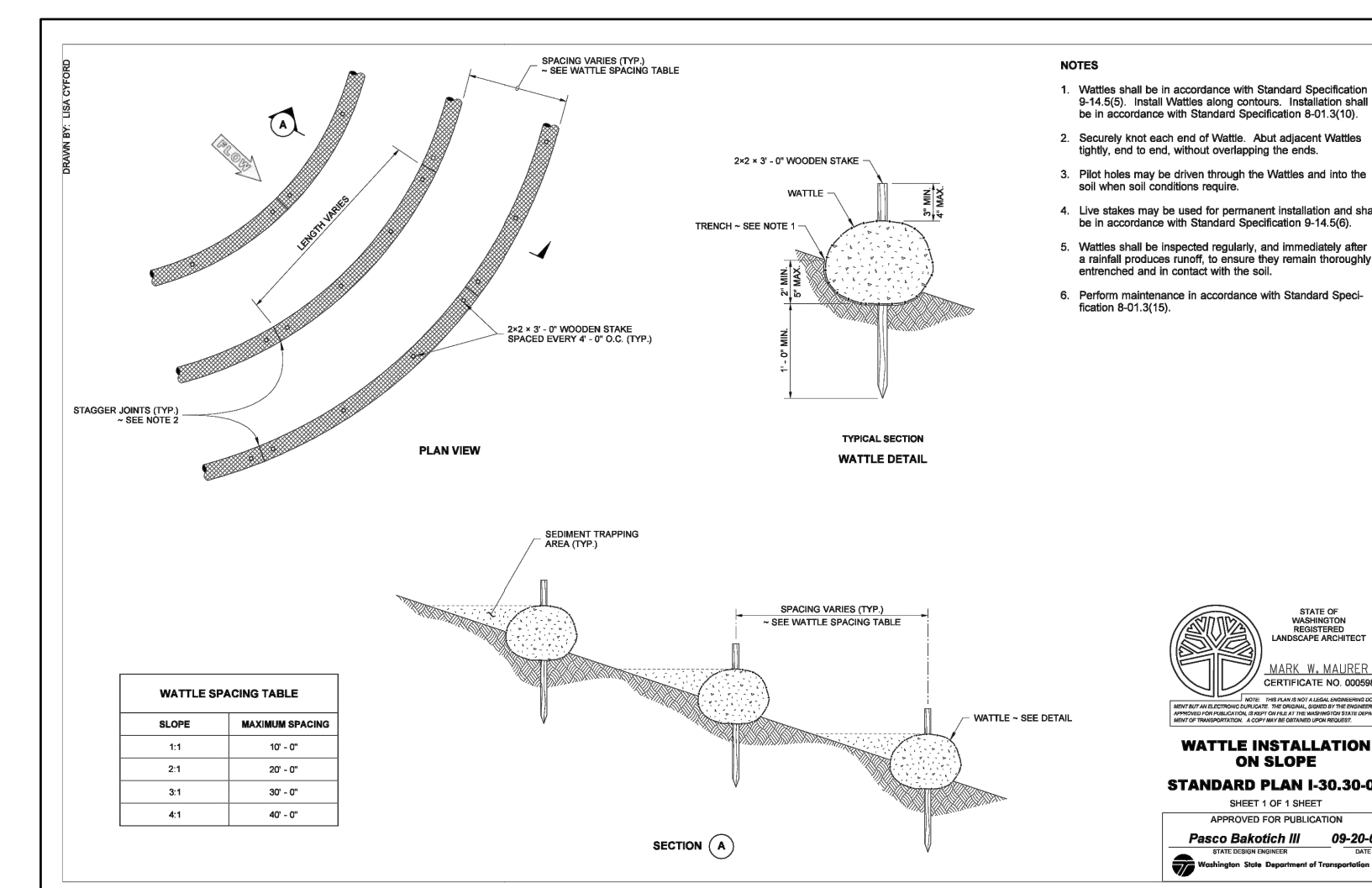
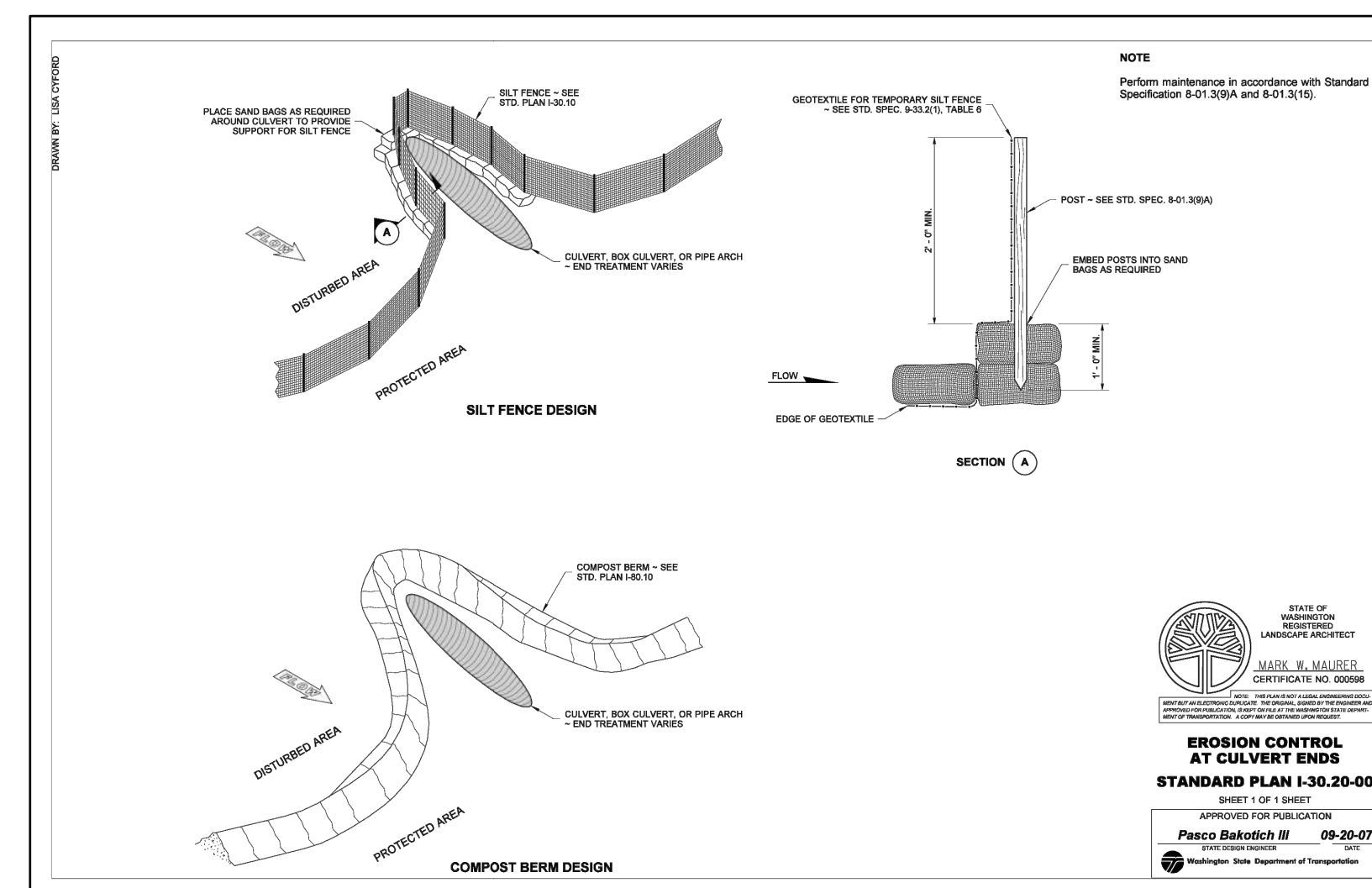
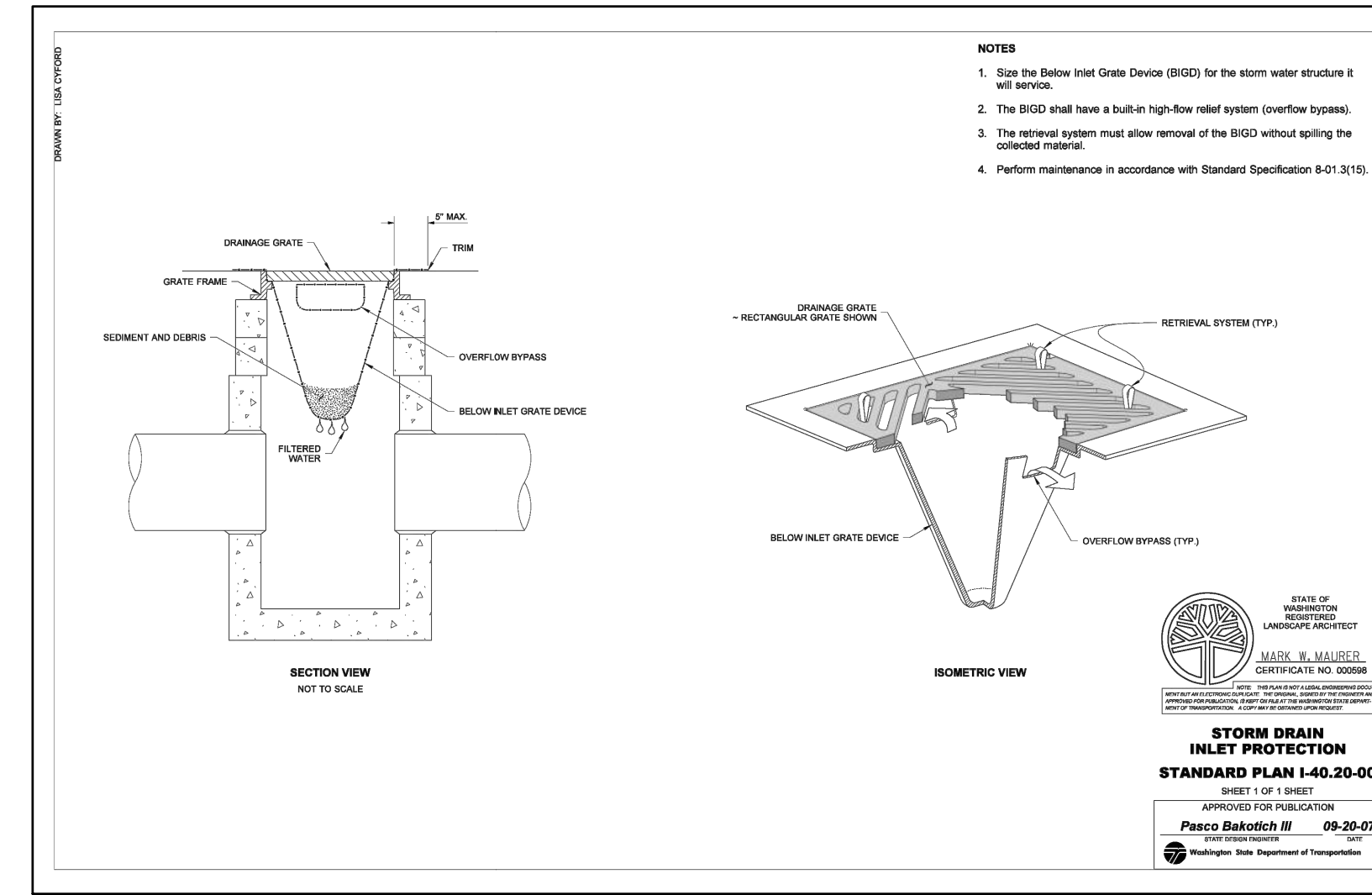
PUBLIC UTILITY DISTRICT  
 NO. 1 of SKAGIT COUNTY  
 1415 Freeway Drive  
 P.O. BOX 1436  
 Mount Vernon, WA 98273  
 (360) 424-7104  
 www.SkagitPud.org

ALTA VISTA, VISTA VIEW AND PLAZA DR.	
SHUTDOWN MAP	
SCALE: NONE	P.N. 16-03632
	SHEET: 3 OF 16
	C.O. 4926

**Standard ESC Plan Notes**

- AS DIRECTED BY PUBLIC WORKS DIRECTOR PRIOR TO COMMENCING CONSTRUCTION, ALL CRITICAL AREAS, INCLUDING WETLAND BUFFERS, STREAM CORRIDOR, LANDFILL AREAS, AND STEEP SLOPES SHALL BE CONTINUOUSLY DEMARCATED IN THE FIELD USING FLAGGING TAPE OR FENCING.
- EROSION CONTROL METHODS AND MATERIALS SHALL MEET REQUIREMENTS OF SECTION 8-01 OF THE APWA/WASHINGTON STATE DEPARTMENT OF TRANSPORTATION 1998 STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION, AND REQUIREMENTS SET FORTH IN VOLUME II OF THE "STORMWATER MANAGEMENT MANUAL FOR THE PUGET SOUND BASIN (THE TECHNICAL MANUAL)", BY THE WASHINGTON STATE DEPARTMENT OF ECOLOGY, CURRENT EDITION. THE CONTRACTOR SHALL FOLLOW RECOMMENDATIONS MADE BY SUPPLIERS AND MANUFACTURERS OF MATERIALS AND EQUIPMENT USED.
- THE ESC FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED IN CONJUNCTION WITH ALL CLEARING AND GRADING ACTIVITIES IN SUCH A MANNER AS TO ENSURE THAT SEDIMENT-LADEN WATER DOES NOT ENTER THE DRAINAGE SYSTEM OR VIOLATE APPLICABLE WATER STANDARDS, AND MUST BE INSTALLED AND IN OPERATION PRIOR TO ANY GRADING OR LAND CLEARING. WHEREVER POSSIBLE, MAINTAIN NATURAL VEGETATION FOR SILT CONTROL.
- THE ESC FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE ESC FACILITIES SHALL BE UPGRADED (E.G. ADDITIONAL SUMPS, RELOCATION OF DITCHES AND SILT FENCES, ETC.) AS NEEDED FOR UNEXPECTED STORM EVENTS. ADDITIONALLY, MORE ESC FACILITIES MAY BE REQUIRED TO ENSURE COMPLETE SILTATION CONTROL. THEREFORE, DURING THE COURSE OF CONSTRUCTION, IT SHALL BE THE OBLIGATION AND RESPONSIBILITY OF THE CONTRACTOR TO ADDRESS ANY NEW CONDITIONS THAT MAY BE CREATED BY HIS ACTIVITIES AND TO PROVIDE ADDITIONAL FACILITIES OVER AND ABOVE THE MINIMUM REQUIREMENTS AS MAY BE NEEDED.
- ANY PERMANENT RETENTION/DETENTION FACILITY USED AS A TEMPORARY SETTLING BASIN SHALL BE MODIFIED WITH THE NECESSARY EROSION CONTROL MEASURES AND SHALL PROVIDE ADEQUATE STORAGE CAPACITY. IF THE PERMANENT FACILITY IS TO FUNCTION ULTIMATELY AS AN INFILTRATION OR DISPERSION SYSTEM, THE FACILITY SHALL NOT BE USED AS A TEMPORARY SETTLING BASIN. NO UNDERGROUND DETENTION TANK, DETENTION VAULT, OR SYSTEM, WHICH BACKS UNDER OR INTO A POND, SHALL BE USED AS A TEMPORARY SETTLING BASIN.
- WHERE SEEDING FOR TEMPORARY EROSION CONTROL IS REQUIRED, FAST GERMINATING GRASSES SHALL BE APPLIED AT AN APPROPRIATE RATE (EXAMPLE: ANNUAL OR PERENNIAL RYE APPLIED AT APPROXIMATELY 80 POUNDS PER ACRE).
- WHERE STRAW MULCH IS REQUIRED FOR TEMPORARY EROSION CONTROL, IT SHALL BE APPLIED AT A MINIMUM THICKNESS OF TWO (2) INCHES.
- ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH SPECIFICATIONS OF THE CITY OR COUNTY IN WHICH THE WORK OCCURS.
- THE ESC FACILITIES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DETAILS ON THE APPROVED PLANS. LOCATIONS MAY BE MOVED TO SUIT FIELD CONDITIONS, SUBJECT TO APPROVAL.
- A COPY OF THE APPROVED EROSION CONTROL PLANS MUST BE ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS.
- OFF-SITE STREETS MUST BE KEPT CLEAN AT ALL TIMES. IF DIRT IS DEPOSITED ON THE PUBLIC STREET SYSTEM, THE STREET SHALL BE IMMEDIATELY CLEANED WITH POWER SWEEPER OR OTHER EQUIPMENT. ALL VEHICLES SHALL LEAVE THE SITE BY WAY OF THE CONSTRUCTION ENTRANCE AND SHALL BE CLEANED OF ALL DIRT THAT WOULD BE DEPOSITED ON THE PUBLIC STREETS.
- ANY CATCH BASINS COLLECTING RUNOFF FROM THE SITE, WHETHER THEY ARE ON OR OFF THE SITE, SHALL HAVE THEIR GRATES COVERED WITH FILTER FABRIC DURING CONSTRUCTION.
- THE WASHED GRAVEL BACKFILL ADJACENT TO THE FILTER FABRIC FENCE SHALL BE REPLACED AND THE FILTER FABRIC CLEANED IF IT IS NONFUNCTIONAL BY EXCESSIVE SILT ACCUMULATION. ALL INTERCEPTOR SWALES SHALL BE CLEANED IF SILT ACCUMULATION EXCEEDS ONE-QUARTER DEPTH.

- ROCK FOR EROSION PROTECTION OF ROADWAY DITCHES, WHERE REQUIRED, MUST BE OF SOUND QUARRY ROCK, PLACED TO DEPTH OF ONE (1) FOOT AND MUST MEET THE FOLLOWING SPECIFICATIONS: 4" - 8" ROCK/40%-70% PASSING; 2"-4" ROCK/30%-40% PASSING; AND 1"-2" ROCK/10%-20% PASSING.
- IF ANY PART (S) OF THE CLEARING LIMIT; BOUNDARY OR TEMPORARY EROSION/SEDIMENTATION CONTROL PLAN IS/ARE DAMAGED, IT SHALL BE REPAIRED IMMEDIATELY.
- ALL PROPERTIES ADJACENT TO THE PROJECT SITE SHALL BE PROTECTED FROM SEDIMENT DEPOSITION AND RUNOFF DO NOT FLUSH CONCRETE BY PRODUCTS OR TRUCKS NEAR OR INTO THE STORM DRAINAGE SYSTEM. IF EXPOSED AGGREGATE IS FLUSHED INTO THE STORM SYSTEM, IT COULD MEAN RECLEANING THE ENTIRE DOWNSTREAM STORM SYSTEM, OR POSSIBLY RELAYING THE STORM LINE
- THE IMPLEMENTATION OF THESE ESC PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE FACILITIES IS THE RESPONSIBILITY OF THE APPLICANT/ESC SUPERVISOR UNTIL ALL CONSTRUCTION IS APPROVED.
- THE ESC LEAD'S NAME IS: _____
- THE APPLICANT'S NAME IS : PUD NO. 1 OF SKAGIT COUNTY, 24 HR. CONTACT NUMBER: 360-424-7104.
- THE ESC FACILITIES SHALL BE INSPECTED DAILY BY THE APPLICANT/ESC LEAD AND MAINTAINED TO ENSURE CONTINUED PROPER FUNCTIONING. WRITTEN RECORDS SHALL BE KEPT OF WEEKLY REVIEWS OF THE ESC FACILITIES DURING THE WET SEASON (OCT. 1 TO APRIL 30) AND OF THE MONTHLY REVIEWS DURING THE DRY SEASON (MAY 1 TO SEPT. 30).
- ANY AREAS OF EXPOSED SOILS, INCLUDING ROADWAY EMBANKMENTS, THAT WILL NOT BE DISTURBED FOR TWO DAYS DURING THE WET SEASON OR SEVEN DAYS DURING THE DRY SEASON SHALL BE IMMEDIATELY STABILIZED WITH THE APPROVED ESC METHODS (E.G., SEEDING, MULCHING, PLASTIC COVERING, ETC.).
- ANY AREA NEEDING ESC MEASURES NOT REQUIRING IMMEDIATE ATTENTION SHALL BE ADDRESSED WITHIN FIFTEEN (15) DAYS.
- THE ESC FACILITIES ON ACTIVE SITES SHALL BE INSPECTED AND MAINTAINED A MINIMUM OF ONCE A MONTH OR WITHIN FORTY-EIGHT (48) HOURS FOLLOWING A STORM EVENT.
- AT NO TIME SHALL MORE THAN ONE (1) FOOT OF SEDIMENT BE ALLOWED TO ACCUMULATE WITHIN A CATCH BASIN. ALL CATCH BASINS AND CONVEYANCE LINES SHALL BE CLEANED PRIOR TO PAVING. THE CLEANING OPERATION SHALL NOT FLUSH SEDIMENT-LADEN WATER INTO THE DOWNSTREAM SYSTEM.
- STABILIZED CONSTRUCTION ENTRANCES AND ROADS SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES, SUCH AS WASH PADS, MAY BE REQUIRED TO ENSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.
- ANY PERMANENT FLOW CONTROL FACILITY USED AS A TEMPORARY SETTLING BASIN SHALL BE MODIFIED WITH THE NECESSARY EROSION CONTROL MEASURES AND SHALL PROVIDE ADEQUATE STORAGE CAPACITY. IF THE FACILITY IS TO FUNCTION AS ULTIMATELY AS AN INFILTRATION SYSTEM, THE TEMPORARY FACILITY MUST BE GRADED SO THAT THE BOTTOM AND SIDES ARE AT LEAST THREE FEET ABOVE THE FINAL GRADE OF THE PERMANENT FACILITY.
- PRIOR TO THE BEGINNING OF THE WET SEASON (OCT. 1), ALL DISTURBED AREAS SHALL BE REVIEWED TO IDENTIFY WHICH ONES CAN BE SEEDED IN PREPARATION FOR THE WINTER RAINS. DISTURBED AREAS SHALL BE SEEDED WITHIN ONE WEEK OF THE BEGINNING OF THE WET SEASON. A SKETCH MAP OF THOSE AREAS TO BE SEEDED AND THOSE AREAS TO REMAIN UNCOVERED SHALL BE SUBMITTED TO THE CITY INSPECTOR. THE CITY INSPECTOR CAN REQUIRE SEEDING OF ADDITIONAL AREAS IN ORDER TO PROTECT SURFACE WATERS, ADJACENT PROPERTIES, OR DRAINAGE FACILITIES.
- CONTRACTOR SHALL MAINTAIN ALL BMP'S UNTIL DISTURBED AREAS HAVE STABILIZED.



ISSUE	REVISIONS	BY	DATE
1.	30% DESIGN	MCH	4/25/16
2.	90% DESIGN	MCH	12/21/17
3.	ISSUED FOR BIDDING	MCH	7/29/25



DATUM:  
HOR: NAD 83  
VERT: NAVD 88

DSGN BY: CAS  
DWN BY: JLB  
APPVD BY: MCH

DATE PRINTED: SEC: 27  
TWP: 35 N  
RGE: 4 E



PUBLIC UTILITY DISTRICT  
NO. 1 of SKAGIT COUNTY  
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P.O BOX 1436  
Mount Vernon, WA 98273  
(360) 424-7104  
www.SkagitPud.org

ALTA VISTA, VISTA VIEW AND PLAZA DR.

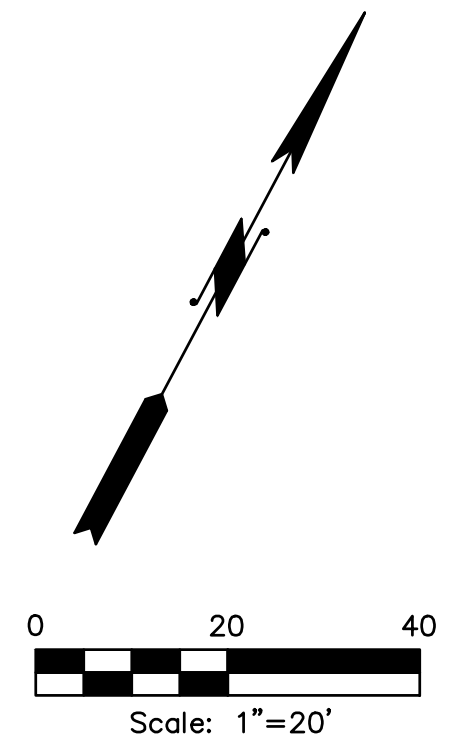
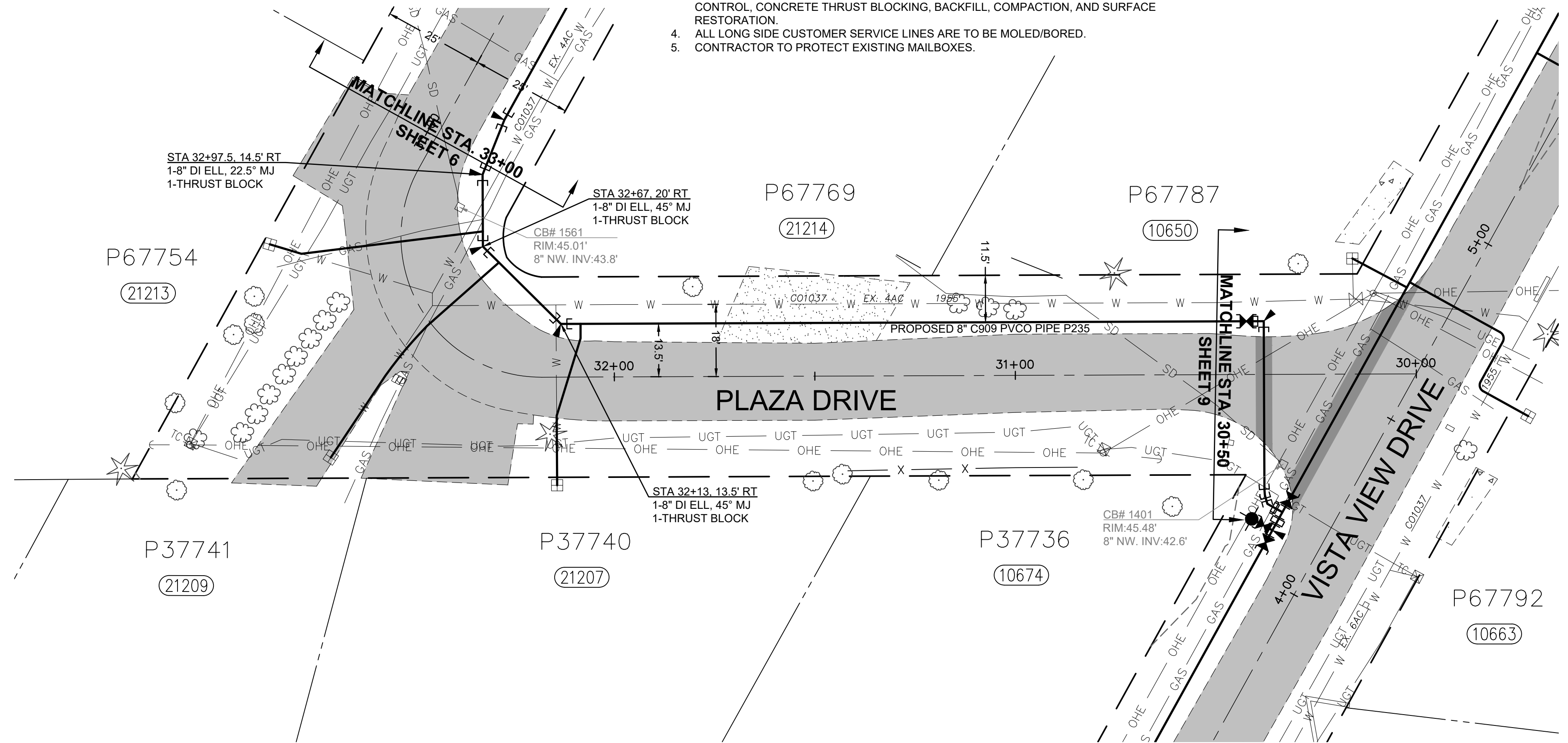
EROSION AND SEDIMENTATION  
CONTROL NOTES AND DETAILS

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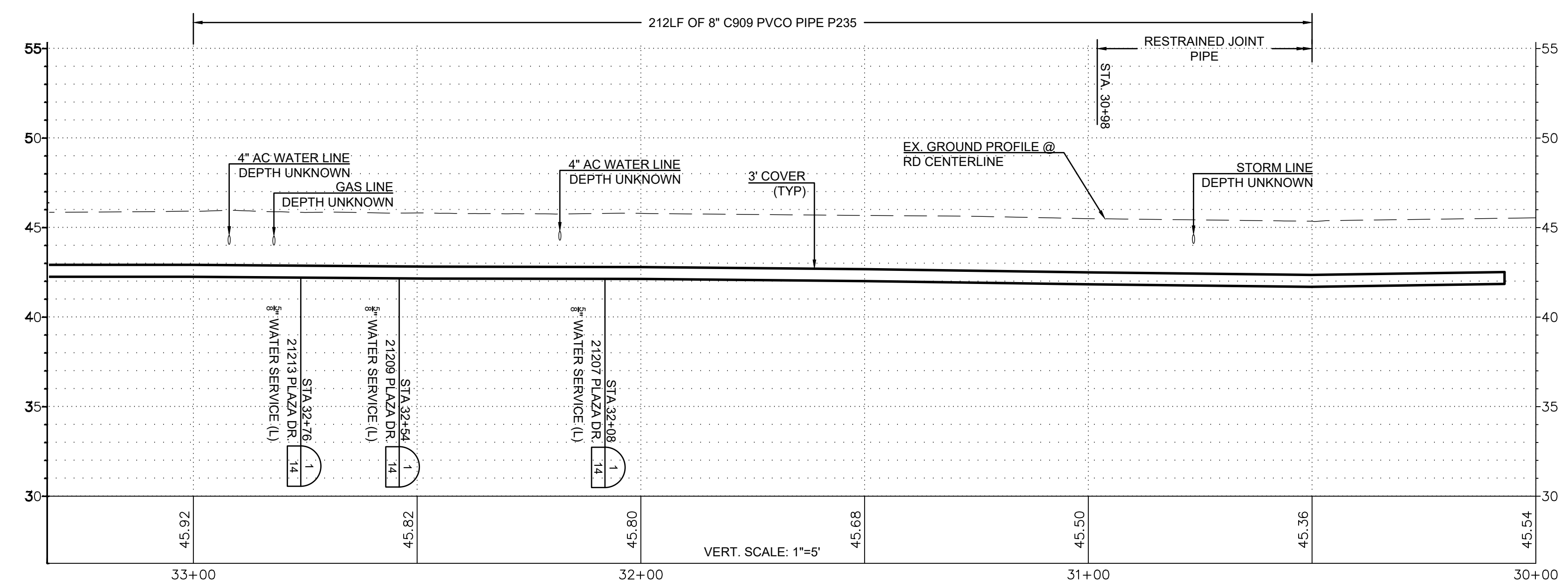
P.N. 16-03632  
C.O. 4926

SHEET:  
4 OF 16

- NOTES:
1. CONTRACTOR TO EXPOSE ENTIRE EX. METER BOX AND SETTER FOR DISTRICT CONNECTIONS.
  2. CONTRACTOR TO POT HOLE EX. TO ESTABLISH LINE AND GRADE FOR CONNECTIONS
  3. CONTRACTOR RESPONSIBLE FOR ALL EXCAVATION, SHORING, DEWATERING, TRAFFIC CONTROL, CONCRETE THRUST BLOCKING, BACKFILL, COMPACTION, AND SURFACE RESTORATION.
  4. ALL LONG SIDE CUSTOMER SERVICE LINES ARE TO BE MOLED/BORED.
  5. CONTRACTOR TO PROTECT EXISTING MAILBOXES.



RENEW EX. SERVICES AT:	
STA	ADDRESS
32+08	21207 PLAZA DR.
32+54	21209 PLAZA DR.
32+76	21213 PLAZA DR.



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DATE PRINTED:	SEC: 27
	TWP: 35 N
	RGE: 4 E

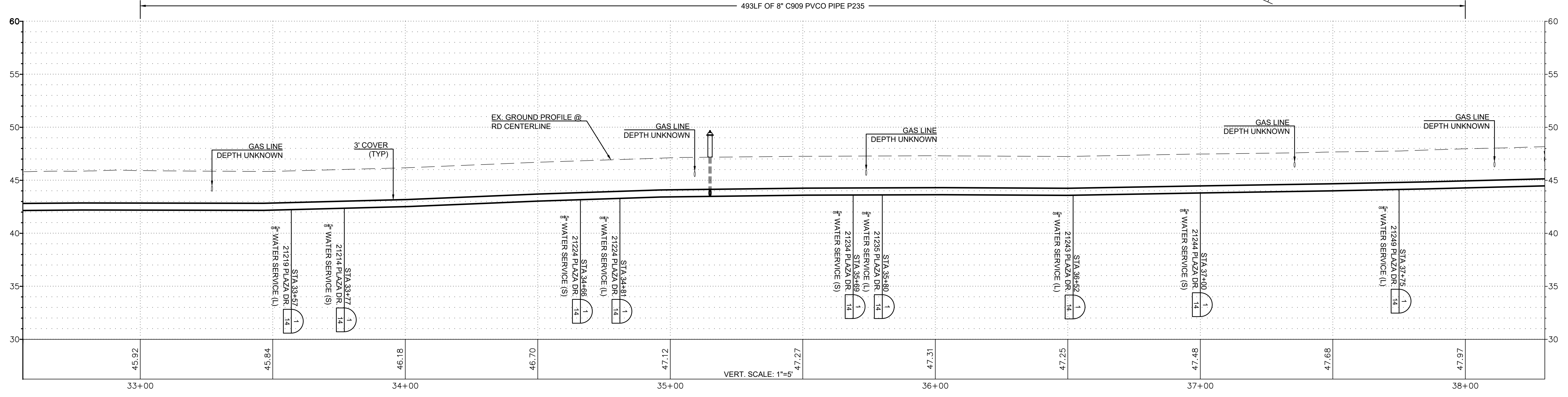
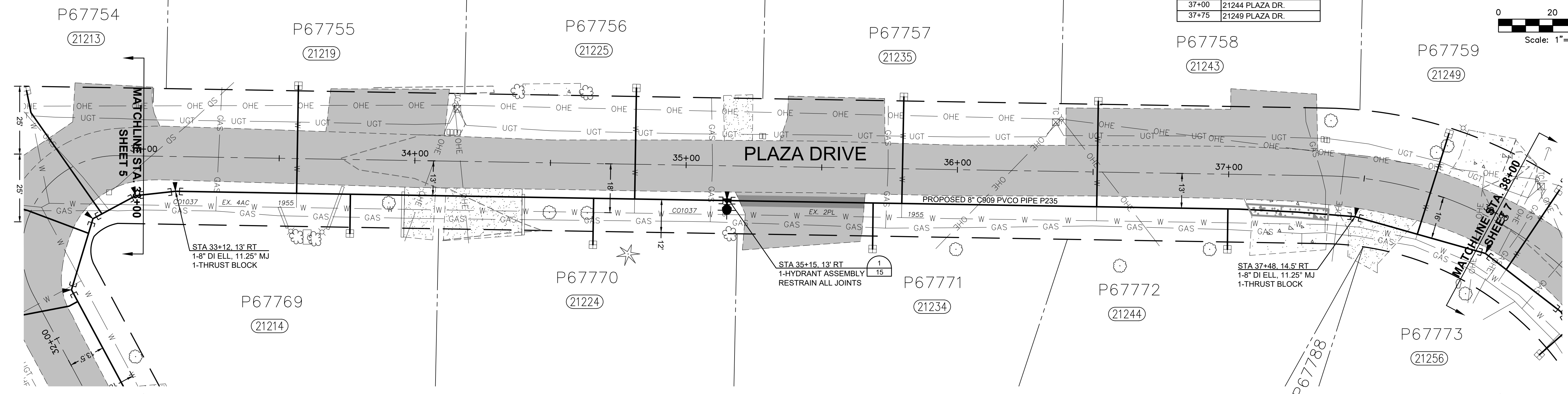
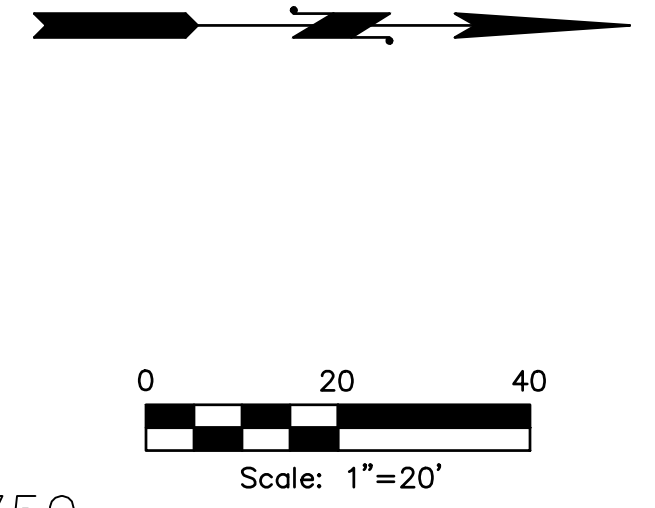


PUBLIC UTILITY DISTRICT  
 NO. 1 of SKAGIT COUNTY  
 1415 Freeway Drive  
 P.O. BOX 1436  
 Mount Vernon, WA 98273  
 (360) 424-7104  
 www.SkagitPud.org

ALTA VISTA, VISTA VIEW AND PLAZA DR.		
PLAZA DRIVE PLAN AND PROFILE STA 30+50 TO STA 33+00		
SCALE: 1"=20'	P.N. 16-03632 C.O. 4926	SHEET: 5 OF 16

- NOTES:
- CONTRACTOR TO EXPOSE ENTIRE EX. METER BOX AND SETTER FOR DISTRICT CONNECTIONS.
  - CONTRACTOR TO POT HOLE EX. TO ESTABLISH LINE AND GRADE FOR CONNECTIONS
  - CONTRACTOR RESPONSIBLE FOR ALL EXCAVATION, SHORING, DEWATERING, TRAFFIC CONTROL, CONCRETE THRUST BLOCKING, BACKFILL, COMPACTION, AND SURFACE RESTORATION.
  - ALL LONG SIDE CUSTOMER SERVICE LINES ARE TO BE MOLED/BORED.
  - CONTRACTOR TO PROTECT EXISTING MAILBOXES.

RENEW EX. SERVICES AT:	
STA	ADDRESS
33+57	21219 PLAZA DR.
33+77	21214 PLAZA DR.
34+66	21224 PLAZA DR.
34+81	21225 PLAZA DR.
35+69	21234 PLAZA DR.
35+80	21235 PLAZA DR.
36+52	21243 PLAZA DR.
37+00	21244 PLAZA DR.
37+75	21249 PLAZA DR.



ISSUE	REVISIONS	BY	DATE
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2.	90% DESIGN	MCH	12/21/17
3.	ISSUED FOR BIDDING	MCH	7/29/25



DATUM:	DSGN BY: CAS
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ALTA VISTA, VISTA VIEW AND PLAZA DR.  
 PLAZA DRIVE  
 PLAN AND PROFILE  
 STA 33+00 TO STA 38+00

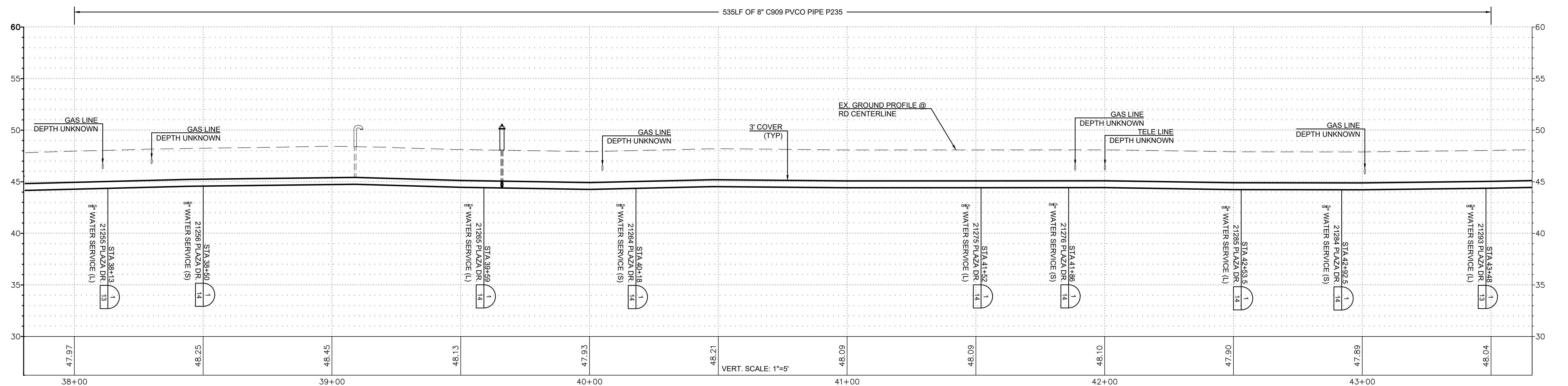
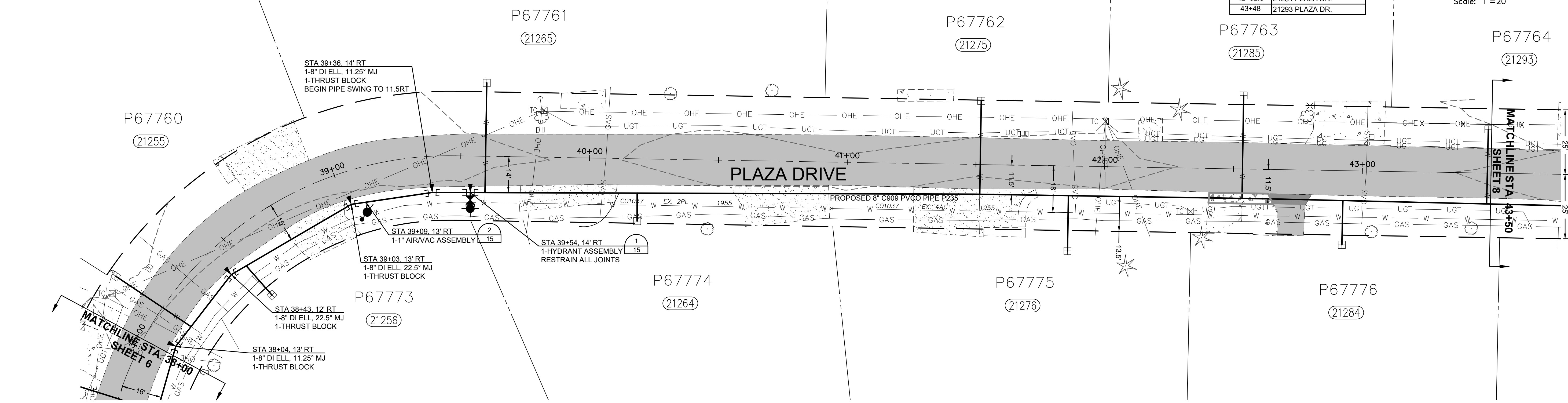
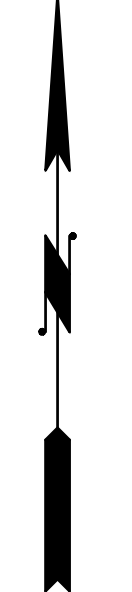
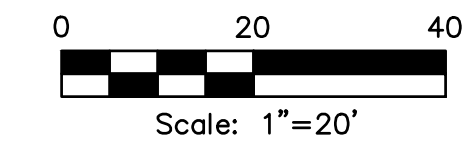
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P.N. 16-03632  
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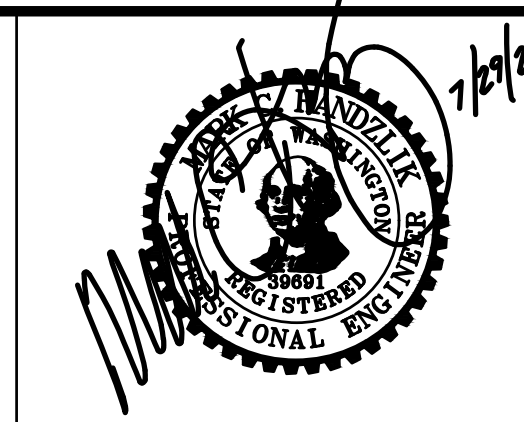
SHEET:  
 6 OF 16

- NOTES:
- CONTRACTOR TO EXPOSE ENTIRE EX. METER BOX AND SETTER FOR DISTRICT CONNECTIONS.
  - CONTRACTOR TO POT HOLE EX. TO ESTABLISH LINE AND GRADE FOR CONNECTIONS.
  - CONTRACTOR RESPONSIBLE FOR ALL EXCAVATION, SHORING, DEWATERING, TRAFFIC CONTROL, CONCRETE THRUST BLOCKING, BACKFILL, COMPACTION, AND SURFACE RESTORATION.
  - ALL LONG SIDE CUSTOMER SERVICE LINES ARE TO BE MOLED/BORED.
  - CONTRACTOR TO PROTECT EXISTING MAILBOXES.

RENEW EX. SERVICES AT:	
STA	ADDRESS
38+13	21255 PLAZA DR.
38+50	21256 PLAZA DR.
39+59	21265 PLAZA DR.
40+18	21264 PLAZA DR.
41+52	21275 PLAZA DR.
41+86	21276 PLAZA DR.
42+53.5	21285 PLAZA DR.
42+92.5	21284 PLAZA DR.
43+48	21293 PLAZA DR.



ISSUE	REVISIONS	BY	DATE
1.	30% DESIGN	MCH	4/25/16
2.	90% DESIGN	MCH	12/21/17
3.	ISSUED FOR BIDDING	MCH	7/29/25



DATUM:  
HOR: NAD 83  
VERT: NAVD 88

DSGN BY: CAS  
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APPVD BY: MCH

DATE PRINTED: SEC: 27  
TWP: 35 N  
RGE: 4 E

**Skagit PUD**  
PUBLIC UTILITY DISTRICT

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ALTA VISTA, VISTA VIEW AND PLAZA DR.

PLAZA DRIVE  
PLAN AND PROFILE  
STA 38+00 TO STA 43+50

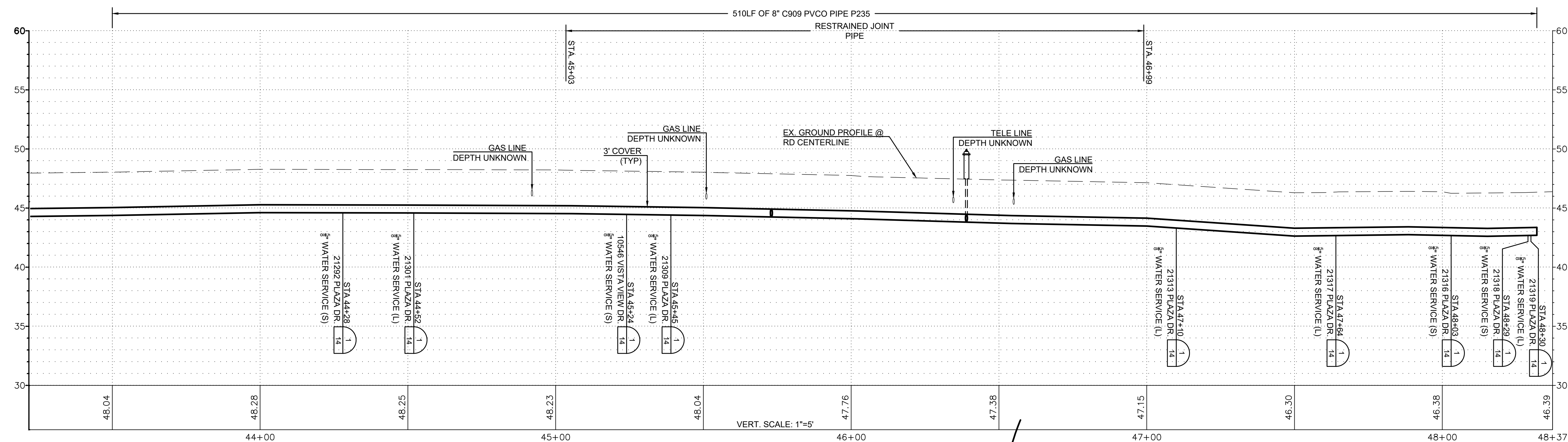
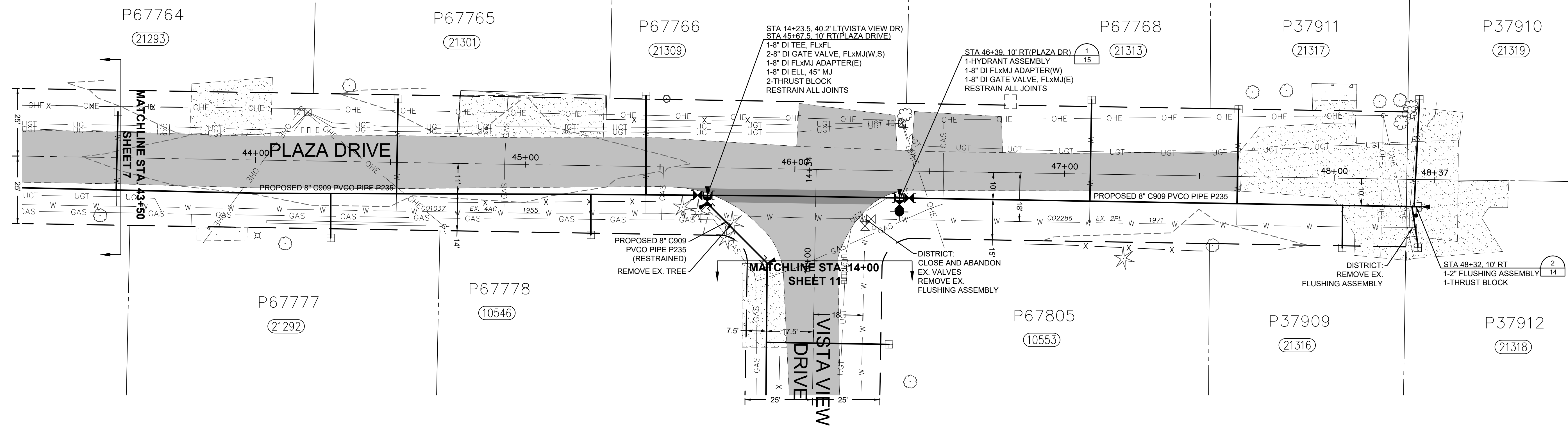
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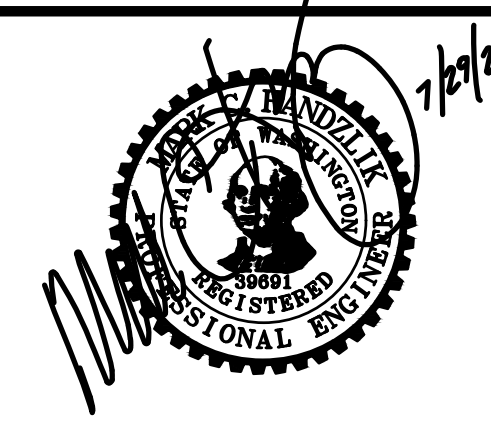
SHEET:  
7 OF 16

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  - ALL LONG SIDE CUSTOMER SERVICE LINES ARE TO BE MOLED/BORED.
  - CONTRACTOR TO PROTECT EXISTING MAILBOXES.

RENEW EX. SERVICES AT:	
STA	ADDRESS
44+28	21292 PLAZA DR.
44+52	21301 PLAZA DR.
45+24	10546 VISTA VIEW DR.
45+45	21309 PLAZA DR.
47+10	21313 PLAZA DR.
47+64	21317 PLAZA DR.
48+03	21316 PLAZA DR.
48+29	21318 PLAZA DR.
48+30	21319 PLAZA DR.



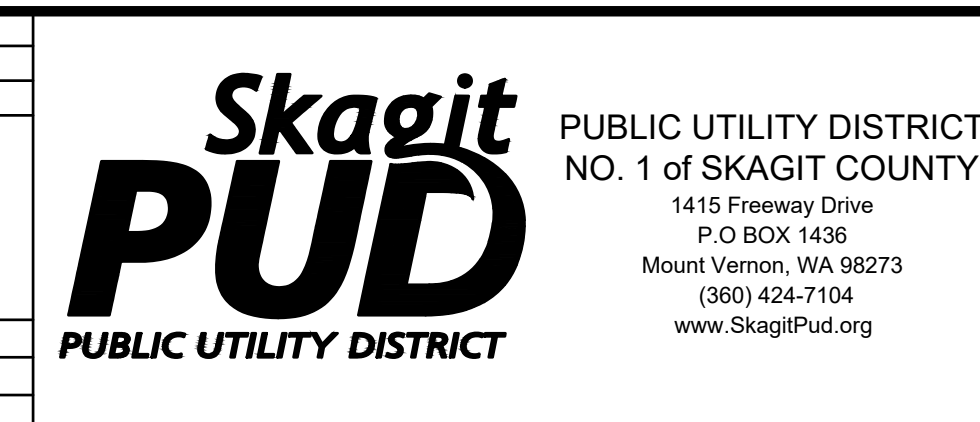
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1.	30% DESIGN	MCH	4/25/16
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DATUM:  
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VERT: NAVD 88

DSGN BY: CAS  
DWN BY: JLB  
APPVD BY: MCH

DATE PRINTED: SEC: 27  
TWP: 35 N  
RGE: 4 E



ALTA VISTA, VISTA VIEW AND PLAZA DR.

PLAZA DRIVE  
PLAN AND PROFILE  
STA 43+50 TO STA 48+37(PLAZA DR)  
STA 14+00 TO STA 14+34(VISTA VIEW DR)

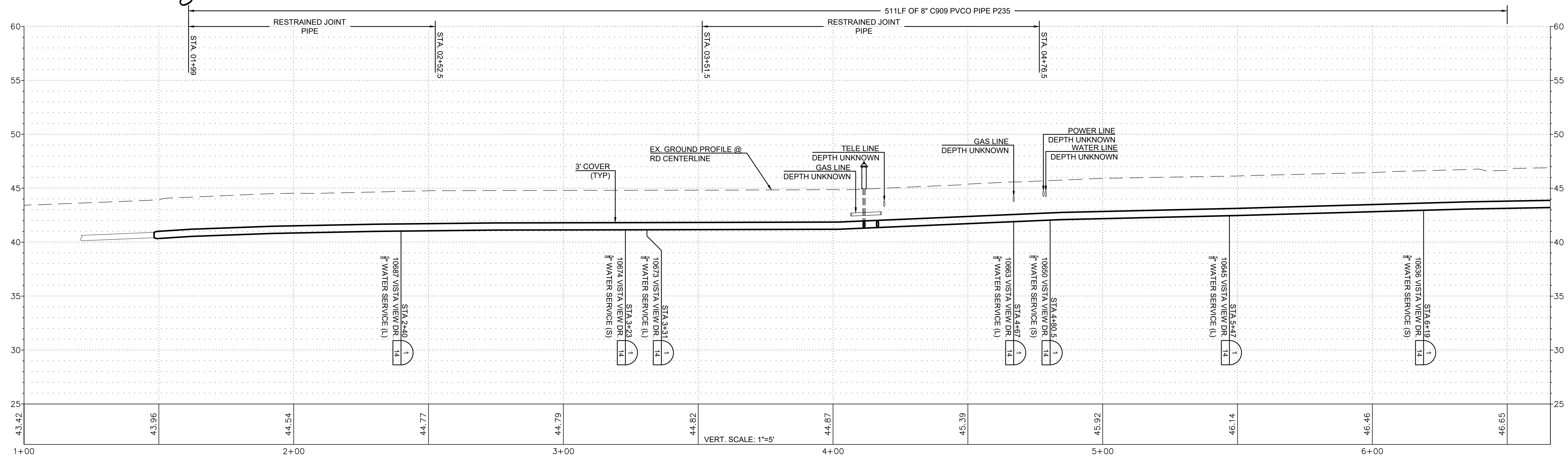
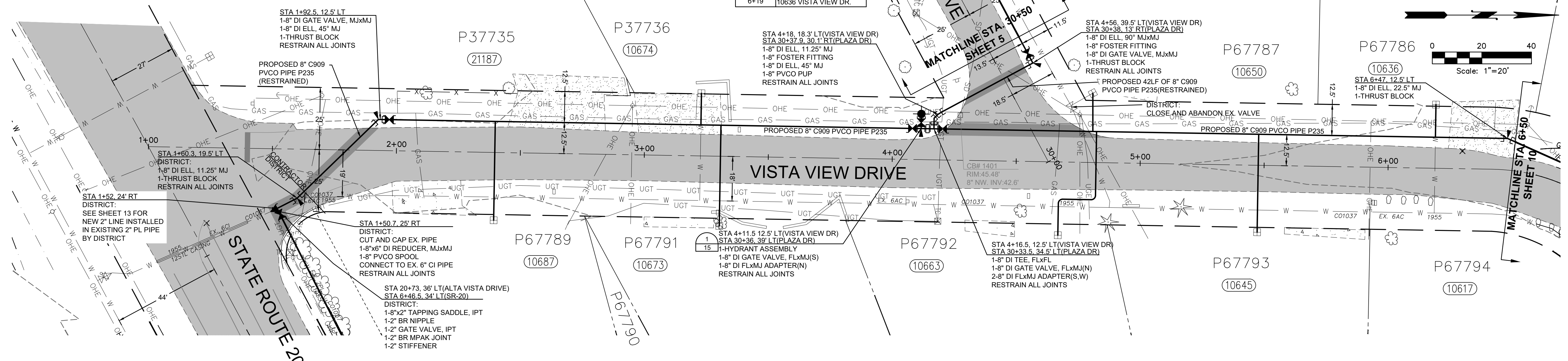
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P.N. 16-03632  
C.O. 4926

SHEET:  
8 OF 16

- NOTES:
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  - CONTRACTOR TO PROTECT EXISTING MAILBOXES.

STA	ADDRESS
2+40	10687 VISTA VIEW DR.
3+23	10674 VISTA VIEW DR.
3+31	10673 VISTA VIEW DR.
4+67	10663 VISTA VIEW DR.
4+80.5	10650 VISTA VIEW DR.
5+47	10645 VISTA VIEW DR.
6+19	10636 VISTA VIEW DR.



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DATUM:  
HOR: NAD 88  
VERT: NAVD 88

DSGN BY: CAS  
DWN BY: JLB  
APPVD BY: MCH

DATE PRINTED: SEC: 27  
TWP: 35 N  
RGE: 4 E



PUBLIC UTILITY DISTRICT  
NO. 1 of SKAGIT COUNTY  
1415 Freeway Drive  
P.O. BOX 1436  
Mount Vernon, WA 98273  
(360) 424-7104  
www.SkagitPud.org

ALTA VISTA, VISTA VIEW AND PLAZA DR.

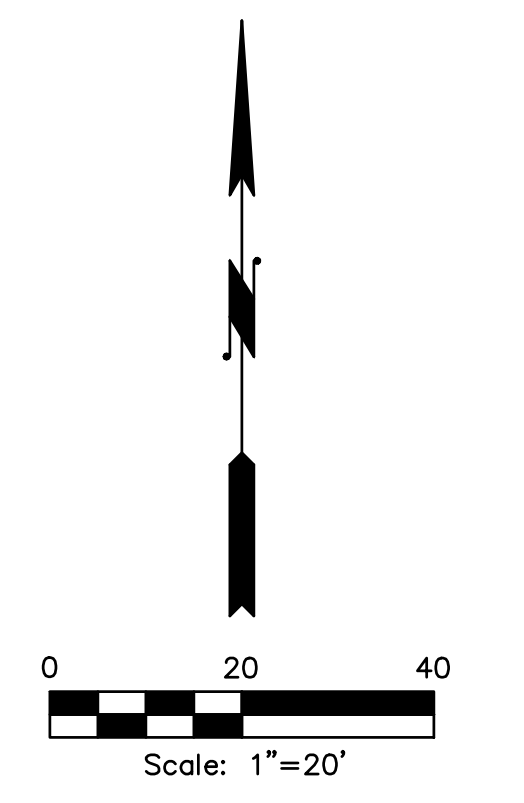
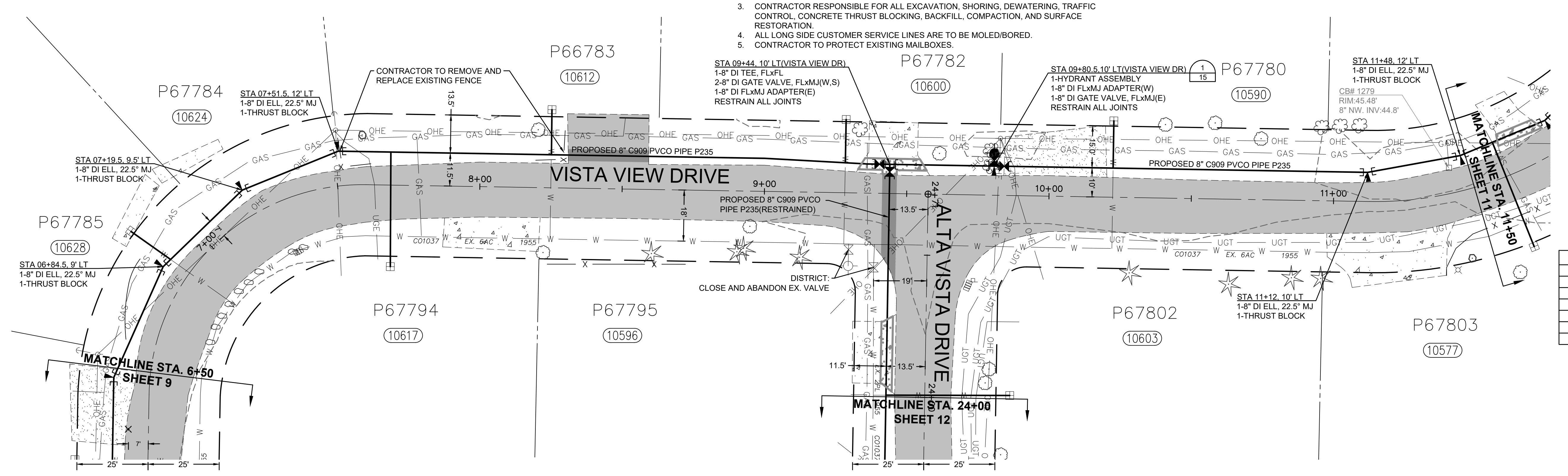
VISTA VIEW  
PLAN AND PROFILE  
STA 1+00 TO STA 6+50(VISTA VIEW)  
STA 30+00 TO STA 30+50(PLAZA DR)

SCALE: 1"=20'

P.N. 16-03632  
C.O. 4926

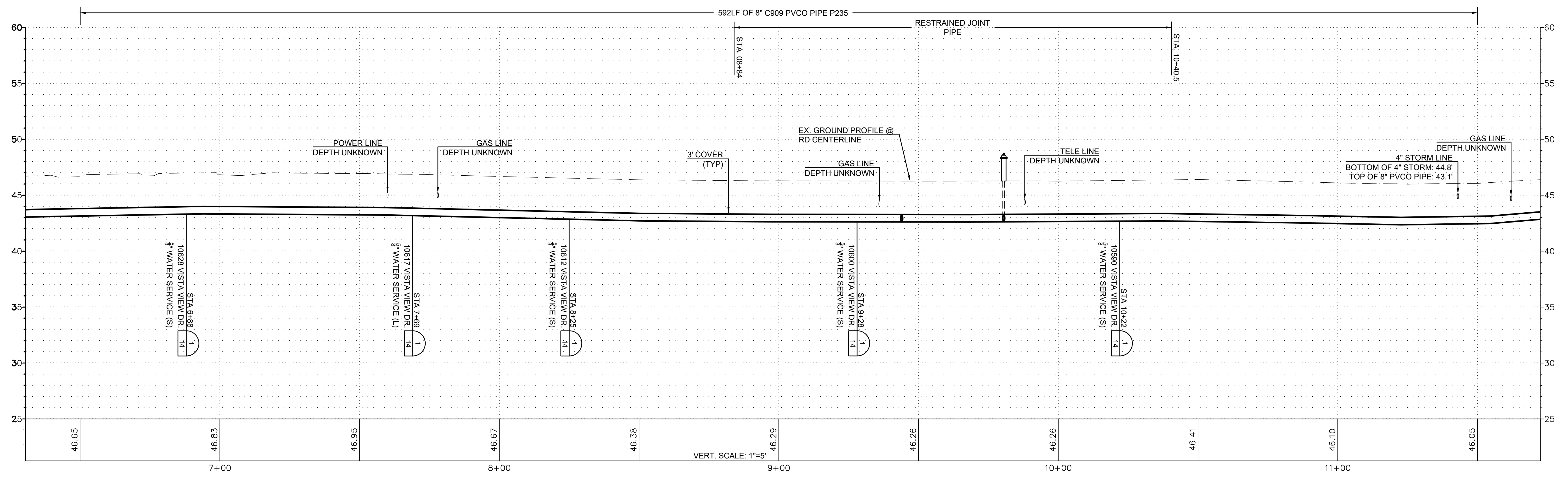
SHEET:  
9 OF 16

- NOTES:
- CONTRACTOR TO EXPOSE ENTIRE EX. METER BOX AND SETTER FOR DISTRICT CONNECTIONS.
  - CONTRACTOR TO POT HOLE EX. TO ESTABLISH LINE AND GRADE FOR CONNECTIONS
  - CONTRACTOR RESPONSIBLE FOR ALL EXCAVATION, SHORING, DEWATERING, TRAFFIC CONTROL, CONCRETE THRUST BLOCKING, BACKFILL, COMPACTION, AND SURFACE RESTORATION.
  - ALL LONG SIDE CUSTOMER SERVICE LINES ARE TO BE MOLED/BORED.
  - CONTRACTOR TO PROTECT EXISTING MAILBOXES.



RENEW EX. SERVICES AT:

STA	ADDRESS
6+88	10628 VISTA VIEW DR.
7+69	10617 VISTA VIEW DR.
8+25	10612 VISTA VIEW DR.
9+28	10600 VISTA VIEW DR.
10+22	10590 VISTA VIEW DR.
24+01	10603 ALTA VISTA DR.



ISSUE	REVISIONS	BY	DATE
1.	30% DESIGN	MCH	4/25/16
2.	90% DESIGN	MCH	12/21/17
3.	ISSUED FOR BIDDING	MCH	7/29/25



DATUM:  
 HOR: NAD 83  
 VERT: NAVD 88

DSGN BY: CAS  
 DWN BY: JLB  
 APPVD BY: MCH

DATE PRINTED: SEC: 27  
 TWP: 35 N  
 RGE: 4 E



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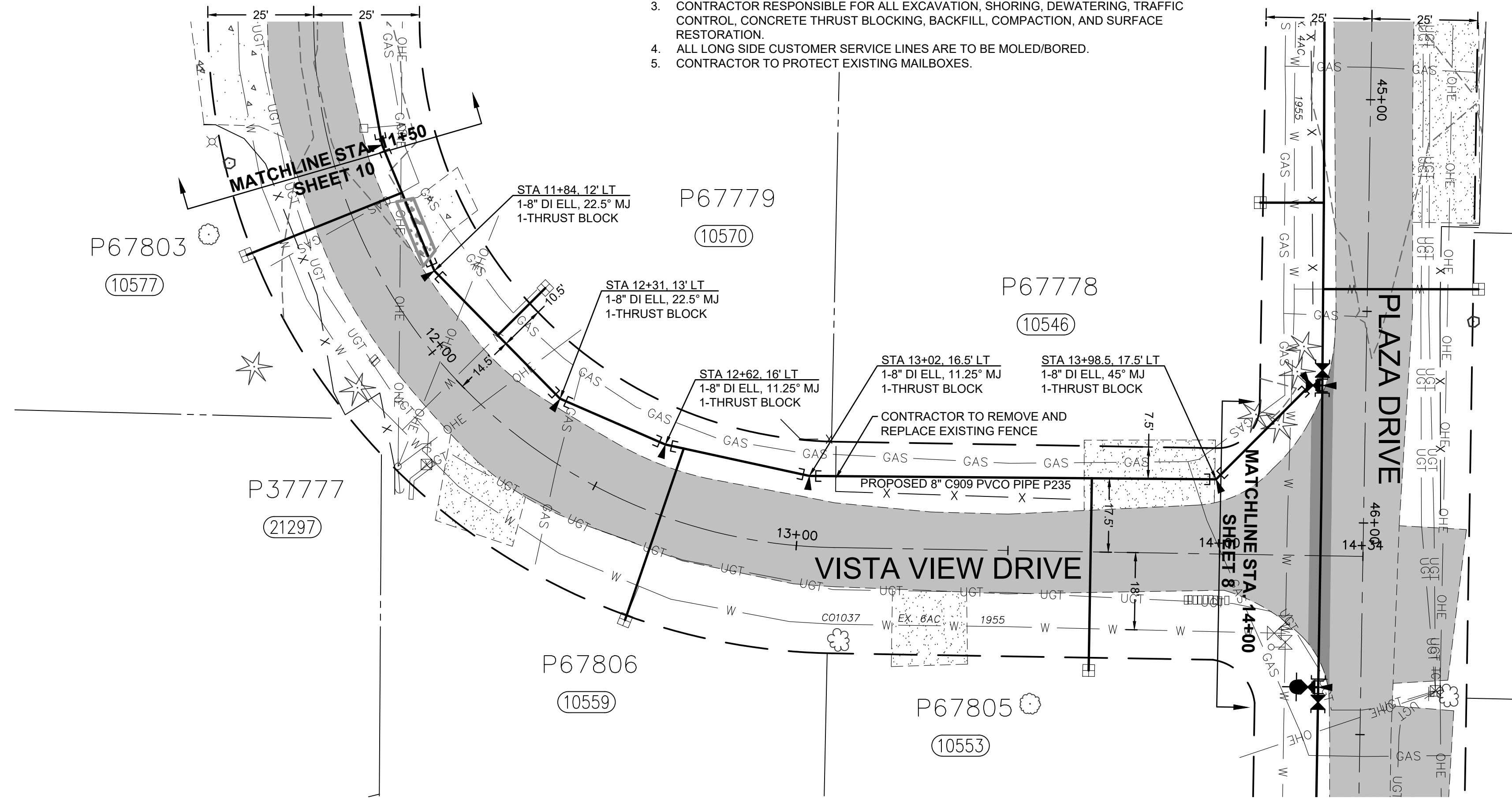
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 VISTA VIEW  
 PLAN AND PROFILE  
 STA 6+50 TO STA 11+50 (VISTA VIEW DR)  
 STA 24+00 TO STA 24+71 (ALTA VISTA DR)

SCALE: 1"=20'

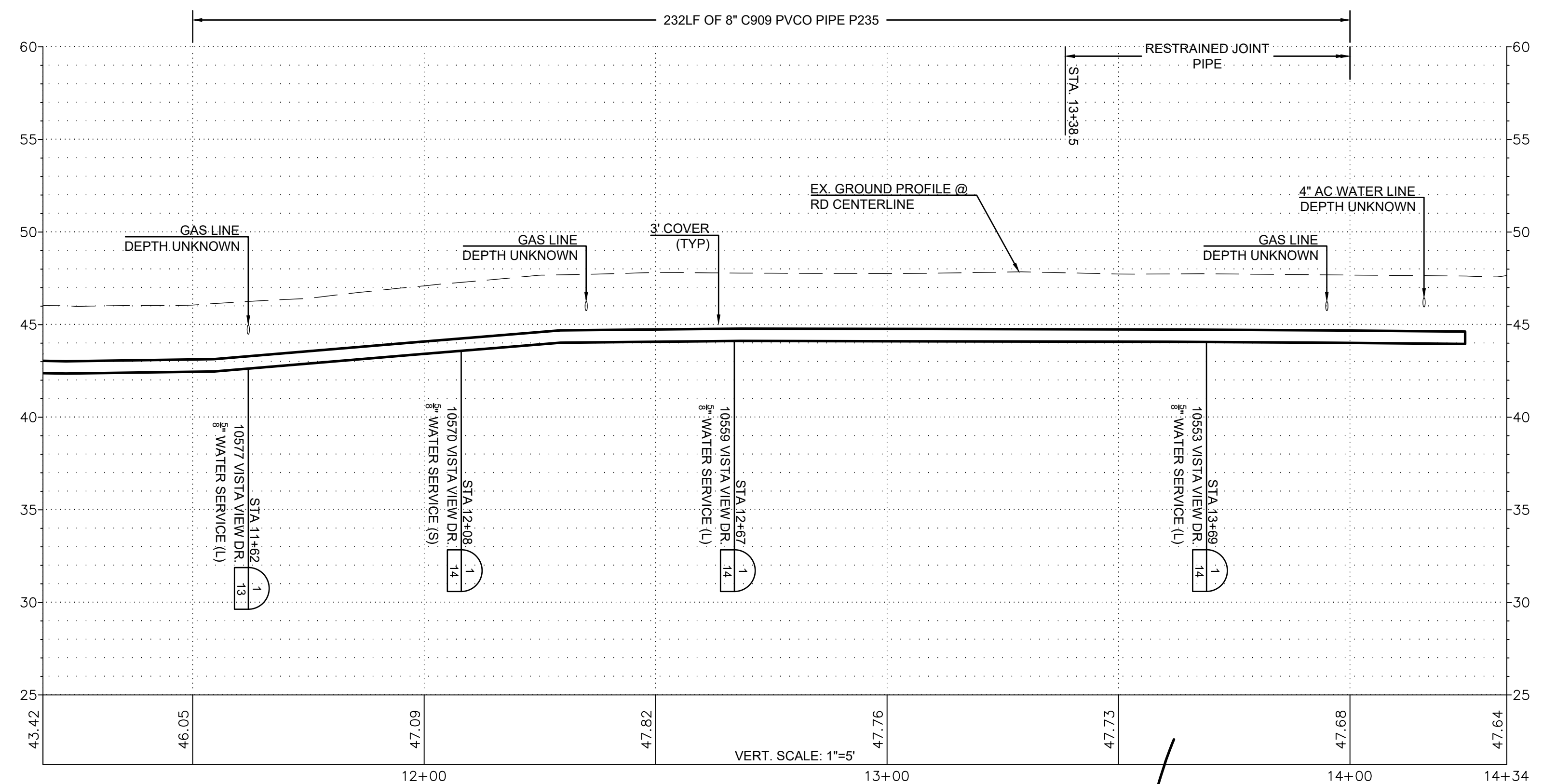
P.N. 16-03632  
 C.O. 4926

SHEET:  
 10 OF 16

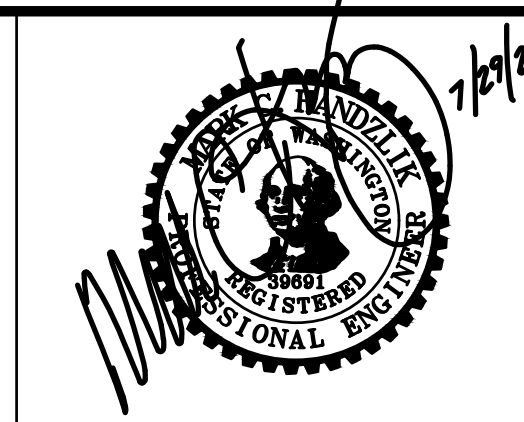
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  2. CONTRACTOR TO POT HOLE EX. TO ESTABLISH LINE AND GRADE FOR CONNECTIONS
  3. CONTRACTOR RESPONSIBLE FOR ALL EXCAVATION, SHORING, DEWATERING, TRAFFIC CONTROL, CONCRETE THRUST BLOCKING, BACKFILL, COMPACTION, AND SURFACE RESTORATION.
  4. ALL LONG SIDE CUSTOMER SERVICE LINES ARE TO BE MOLED/BORED.
  5. CONTRACTOR TO PROTECT EXISTING MAILBOXES.



RENEW EX. SERVICES AT:	
STA	ADDRESS
11+62	10577 VISTA VIEW DR.
12+08	10570 VISTA VIEW DR.
12+67	10559 VISTA VIEW DR.
13+69	10553 VISTA VIEW DR.



ISSUE	REVISIONS	BY	DATE
1.	30% DESIGN	MCH	4/25/16
2.	90% DESIGN	MCH	12/21/17
3.	ISSUED FOR BIDDING	MCH	7/29/25



DATUM:  
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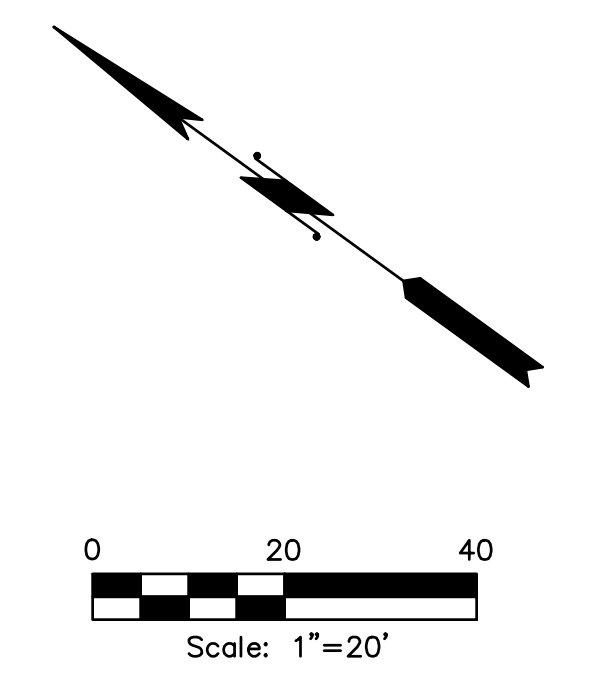
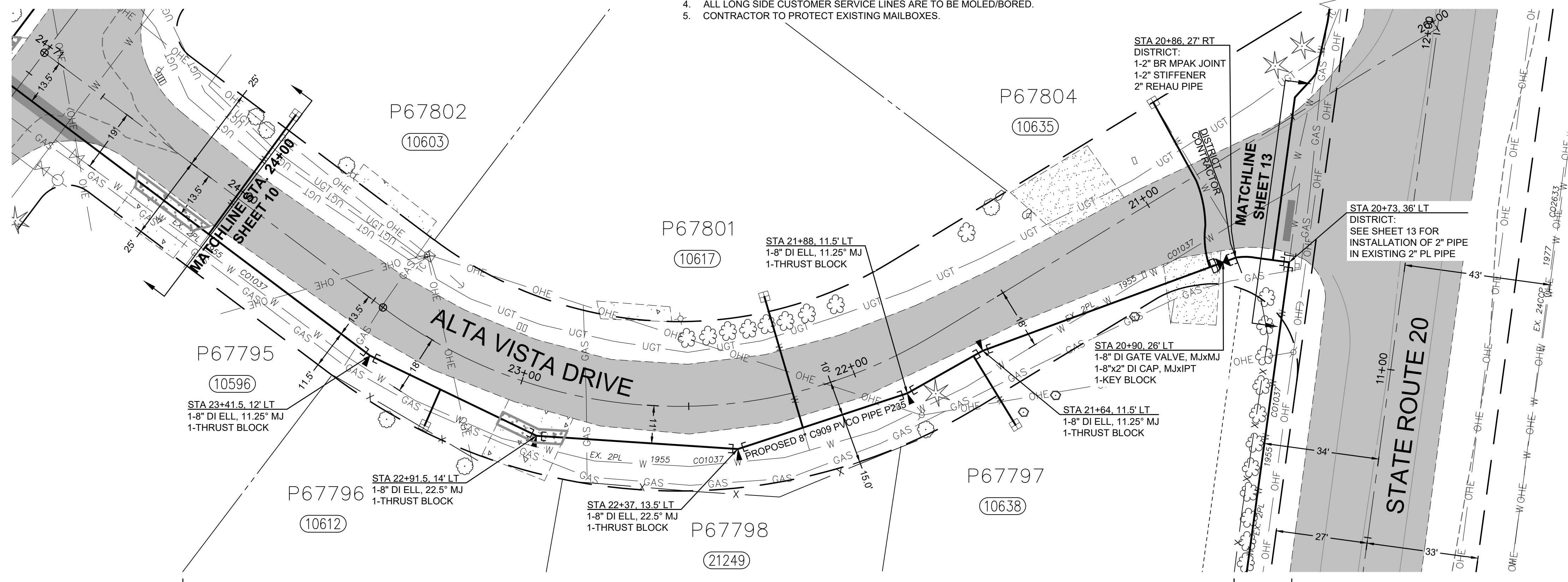
ALTA VISTA, VISTA VIEW AND PLAZA DR.

VISTA VIEW  
PLAN AND PROFILE  
STA 11+50 TO STA 14+00

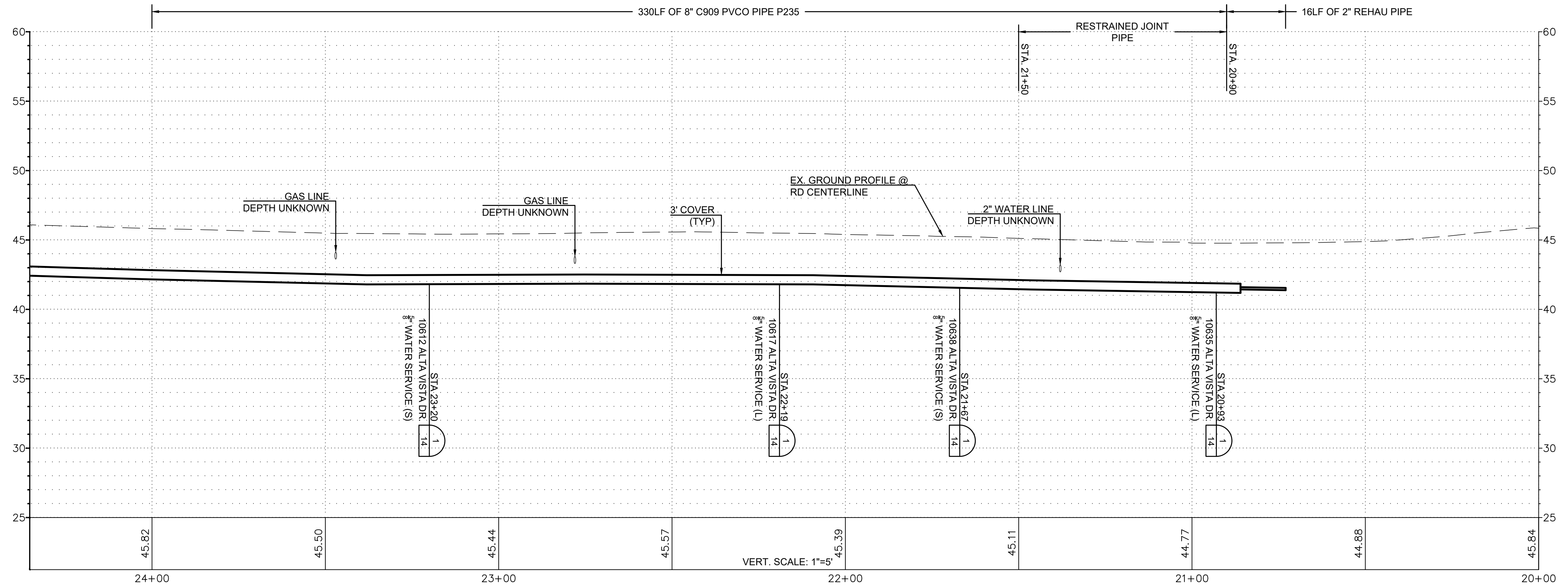
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P.N. 16-03632	SHEET:
C.O. 4926	11 OF 16

- NOTES:
- CONTRACTOR TO EXPOSE ENTIRE EX. METER BOX AND SETTER FOR DISTRICT CONNECTIONS.
  - CONTRACTOR TO POT HOLE EX. TO ESTABLISH LINE AND GRADE FOR CONNECTIONS
  - CONTRACTOR RESPONSIBLE FOR ALL EXCAVATION, SHORING, DEWATERING, TRAFFIC CONTROL, CONCRETE THRUST BLOCKING, BACKFILL, COMPACTION, AND SURFACE RESTORATION.
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  - CONTRACTOR TO PROTECT EXISTING MAILBOXES.



RENEW EX. SERVICES AT:	
STA	ADDRESS
23+20	10612 ALTA VISTA DR.
22+19	10617 ALTA VISTA DR.
21+67	10638 ALTA VISTA DR.
20+93	10635 ALTA VISTA DR.



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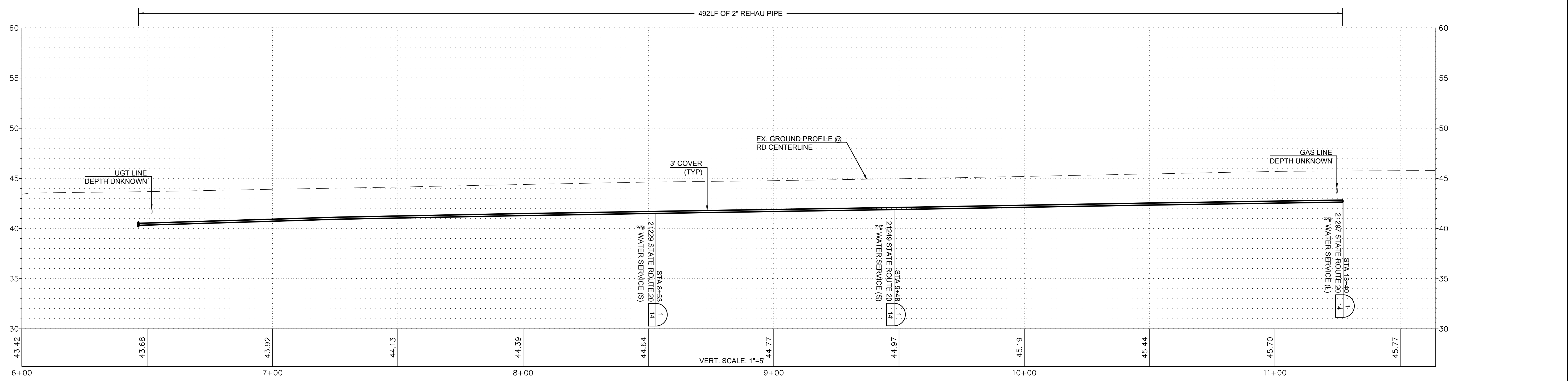
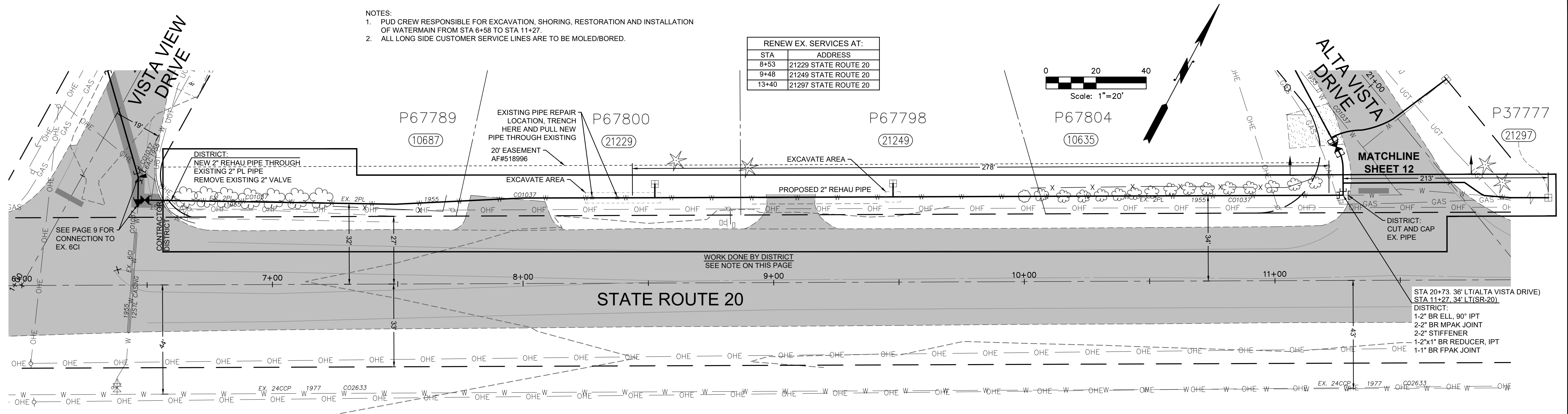


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ALTA VISTA, VISTA VIEW AND PLAZA DR.	
VISTA VIEW PLAN AND PROFILE STA 24+00 TO STA 20+00	
SCALE: 1"=20'	P.N. 16-03632 C.O. 4926
	SHEET: 12 OF 16

- NOTES:
- PUD CREW RESPONSIBLE FOR EXCAVATION, SHORING, RESTORATION AND INSTALLATION OF WATERMAIN FROM STA 6+58 TO STA 11+27.
  - ALL LONG SIDE CUSTOMER SERVICE LINES ARE TO BE MOLED/BORED.

RENEW EX. SERVICES AT:	
STA	ADDRESS
8+53	21229 STATE ROUTE 20
9+48	21249 STATE ROUTE 20
13+40	21297 STATE ROUTE 20



ISSUE	REVISIONS	BY	DATE
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ALTA VISTA, VISTA VIEW AND PLAZA DR.  
 STATE ROUTE 20  
 PLAN AND PROFILE  
 STA 6+00 TO STA 11+50

SCALE: 1"=20'

P.N. 16-03632  
 C.O. 4926

SHEET:  
 13 OF 16

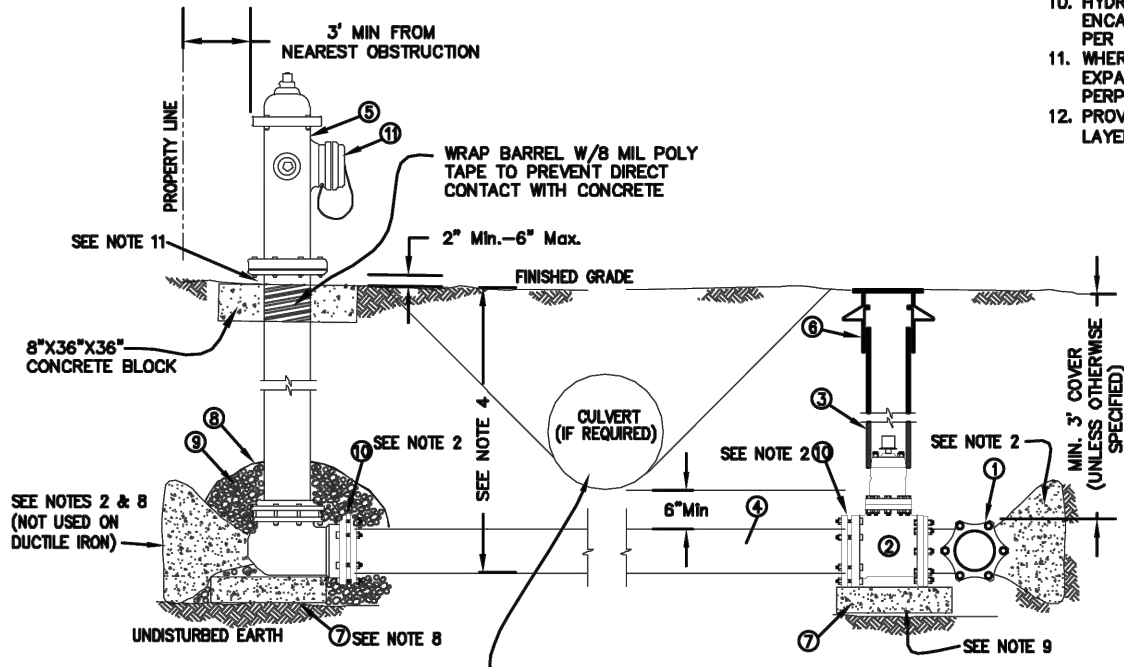


NO.	NOMENCLATURE	REQ'D.
1	TIE WITH FLANGED BRANCH	1
2	VALVE WITH FLUSH CONNECTIONS (SEE NOTE 6)	1
3	CASING, 6" PVC SEWER PIPE	1
4	PIPE, 6" CLASS 50 DUCTILE IRON, FIELD CUT	1
5	FIRE HYDRANT WITH PUMPER PORT, CLOW METALLON, OR AS APPROVED BY JURISDICTIONAL FIRE DEPARTMENT DISTRICT	1
6	VALVE BOX, CAST IRON OLYMPIC FOUNDRY 16007/SKAGIT (SEE P.L.D. DETAIL)	1
7	BLOCK, PRECAST CONCRETE, SEE NOTE 8	1
8	FABRIC, GEOTEXTILE, NON-WOVEN (MIRAFI 1400)†	1
9	1/4" CY DRUM ROCK, 1-1/2" - 3/4", NO FINES	2
10	REG.-L.L.S., 2" PROF ENDS 1"	2
11	HYDRANT ADAPTER STUB, STYLE S-37 W/SC CAP & CABLE, 5"x4" PCT	1

**NOTES:**

- ALL MATERIALS AND BRANDS MUST BE APPROVED BY P.U.D.
- BLOCK TIE AND HYDRANT WITH POURED CONCRETE ON ALL WATER MAINS OTHER THAN DUCTILE IRON AND ON ALL TAPPING SLEEVES AS REQUIRED PER DISTRICT BLOCKING DETAIL. IN ADDITION, "MICALLOTT" (OR APPROVED EQUIVALENT) ARE TO BE INSTALLED AT VALVE AND HYDRANT M.J. OUTLETS. RESTRAIN ANY JOINTS IN THE BELLS OF TYTON JOINT PIPE OR "MICALLOTT" ON M.J. BELLS. NO THURST BLOCK REQUIRED BEHIND TIE ON 8" DUCTILE IRON OR LARGER MAINS.
- PROTECTIVE BARRIER POSTS MAY BE NECESSARY AT SOME HYDRANT INSTALLATIONS. CONTACT FIRE DEPARTMENT/DISTRICT FOR SPECIFIC REQUIREMENTS.
- HYDRANT LENGTH AND TRENCH DEPTH SHALL BE 50' AS TO PROVIDE FOR HYDRANT SETTING AT 2' MIN. AND 6" MAX. ELEVATION TO FINISH GRADE.
- SET HYDRANT VERTICAL, USE LEVEL, COMPACT ALL BACKFILL.
- VALVE SHALL BE ANNA STANDARD GATE, "O" RING PACKING, NON-RISING STEM, 2" OPERATING NUT, RESILIENT WEDGE.
- HYDRANT LOCATIONS ARE DETERMINED BY THE FIRE MARSHAL WITH AUTHORITY FOR AREA CONCERNED.
- CONCRETE BLOCK WILL BE BELOW THE DRAIN HOLES AND DRAIN ROCK. TAKE CARE TO NOT PLUG DRAIN HOLES OR CONTAMINATE DRAIN ROCK.
- SET MINIMUM 1 SOFT, CONCRETE SUPPORT TIGHT UP UNDER VALVE AND HYDRANT.
- HYDRANT BARREL, LEAD, TIE, AND VALVE MUST BE WRAPPED WITH POLYETHYLENE PIPE ENCASEMENT TAPE WHICH IS A MINIMUM OF 8-MIL THICK. IT MUST BE INSTALLED AS PER W.S.D.O.T. STANDARDS AND IN ACCORDANCE WITH A.W.W.A. C105.
- WHERE HYDRANTS ARE INSTALLED IN THE SIDEWALK, THERE SHALL BE A MINIMUM 3/8" EXPANSION JOINT AROUND THE BARREL OF THE HYDRANT AND AN EXPANSION JOINT PERPENDICULAR ACROSS THE SIDEWALK, INTERSECTING THE HYDRANT BARREL.
- PROVIDE A MINIMUM OF 3'-0" LEVEL WORKING AREA AROUND HYDRANT USING 6" THICK LAYER OF 5/8" MINUS CRUSHED ROCK COMPACTED TO BOX.

SEE SHEET 2/2 FOR WALL REQUIREMENTS FOR HYDRANTS



ALL FIRE HYDRANTS SHALL COMPLY WITH THE STANDARDS ISSUED BY THE SKAGIT COUNTY FIRE MARSHAL. HYDRANTS SHALL BE THE DRY BARREL TYPE WITH TWO HOSE OUTLETS WITH AN INSIDE DIAMETER OF 2-1/2 INCHES AND ONE LARGE PUMPER OUTLET WITH AN INSIDE DIAMETER OF 4 INCHES. SMALL PORTS SHALL HAVE NATIONAL STANDARD THREADS MEASURING 3.025 INCHES OUTSIDE DIAMETER AT 7-1/2 THREADS PER INCH. PUMPER PORTS SHALL BE NO. 3 PACTIC COAST THREADS MEASURING 4.812 INCHES OUTSIDE DIAMETER AT 6 THREADS PER INCH. THE OPERATING NUT SHALL BE 1-1/4 INCH PENTAGON.

A STORZ QUICK COUPLER CONNECTED TO THE PUMPER PORT MAY BE REQUIRED. CONTACT FIRE DISTRICT/DISTRICT.

PUD NO. 1 OF SKAGIT COUNTY ENGINEERING MANAGER

APPROVED ON: May 6, 2014

SCALE: NTS	STANDARD
DATE: 3-25-05	
REVISED: 5/6/14	
DRAWN BY: CAS	WH-1a
APPROVED BY: GJS	

SHEET 1/2



STANDARD INSTALLATION OF  
FIRE HYDRANT  
"CENTER STEM TYPE"

NO.	NOMENCLATURE	REQ'D.	NO.	NOMENCLATURE	REQ'D.
1	WATER MAIN	1	11	ADAPTER, BRASS PAK JOINT 1 1/2" L.P.T. (FORD AC7-44)†	1
2	CLAMP, SERVICE, DOUBLE STRAP X 1" L.P.T., ALL BRASS, (FORD #2029)†	1	12	UTILITY VAULT 3030-LA W/3000-P COVER (SEE NOTE 4)	1
3	PIPE, 1" BRASS FB-500†	1	13	NIPPLE, 1 1/2" BRASS	1
4	NIPPLE, BRASS 1/2"	1	14	VALVE, 1" COMBINATION AIR (APCO) (W/ STAINLESS STEEL TRIM)†	1
5	CURB STOP, 1" B11-44†	1	15	PIPE, 1" PVC, SCH. 80	1
6	VALVE BOX, CAST IRON OLYMPIC FOUNDRY VB-007-SKAGIT (SEE P.L.D. DETAIL)	1	16	HOSE CLAMP, 3/4" STAINLESS STEEL	1
7	CASING, 6" PVC, SEWER PIPE	1	17	GRID, 1" COPPER, 180" WITH INSET SCREEN (SEE P.L.D. DETAIL)	1
8	BELL, 1" BRASS, 8" STREET	1	18	WIRE, #10 SOLID COPPER, BLUE COATED, EXTEND MIN. 18" INTO BOX, NEAR LID.	1
9	BELL, 1" BRASS, 6"	2	19	POST, 4"-Ø MIN. METAL, FENCE POST W/SPADE REMOVED (PRESSURE TREATED 4" X 4" POST W/MANOR WERE APPROPRIATE)	1
10	UNION, BRASS 1"	1	20	NIPPLE, 1 1/2" BRASS	2
			21	CONCRETE SUPPORT, MIN. 1 FT. SQUARE X 1-1/4 IN. THICK	1-2

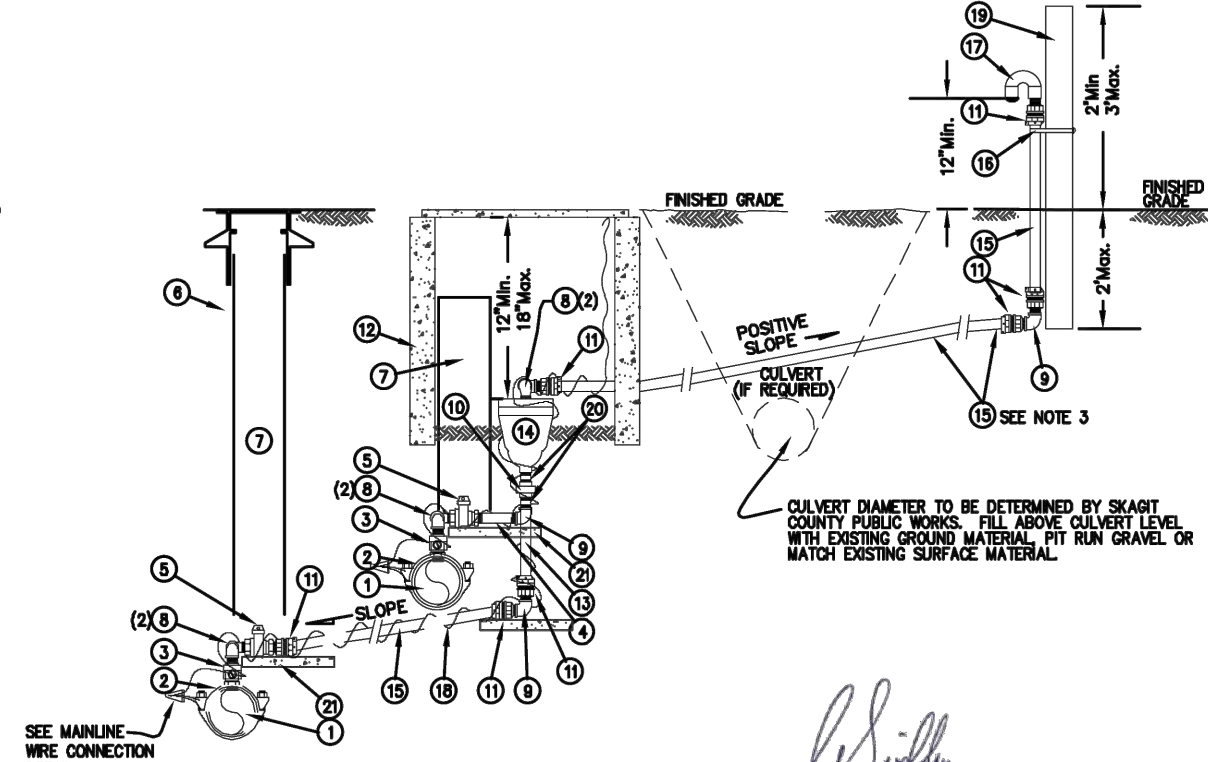
* OR EQUIVALENT APPROVED BY THE DISTRICT  
ALL BRASS FITTINGS TO BE LEAD FREE DOMESTIC BRASS PER UNITED STATES BILL S.3874.

**NOTES:**

- CORP TO BE IN FULL "ON" POSITION BEFORE BACKFILL.
- SET VALVE CASINGS AND VAULT TO FINISHED GRADE. PROVIDE CONCRETE BLOCK SUPPORT UNDER CASING. DO NOT REST ON PIPE. REFER TO DETAIL OF STANDARD VALVE CASING INSTALLATION.
- INSTALL LINE PERPENDICULAR TO MAIN OR AS SHOWN ON WATER PLAN.
- CARSON INDUSTRIES BOX 1730-15 W/COVER 1730-3, MAY BE USED IN LAWN OR LANDSCAPED AREA UPON APPROVAL BY P.U.D. IF THERE IS A GROUND DEPRESSION OR DITCH BETWEEN AIR VALVE LOCATION AND VENT PIPE WHICH AFFECTS THE SLOPE OF THE HORIZONTAL VENT PIPE, INSTALL A CULVERT IF IT IS A DRAINAGE PATH OR FILL WITH DIRT.

#10 WIRE  
MAINLINE WIRE CONNECTION DETAIL  
NTS

NOTE: ALL THREE WIRES ARE TO BE TIED TOGETHER IN AN OVERHAND KNOT APPROXIMATELY 8" FROM WIRE NUT. BARE 3/8" OF WIRES. CONNECT WITH #2325 KING WATERPROOF WIRE CONNECTOR.



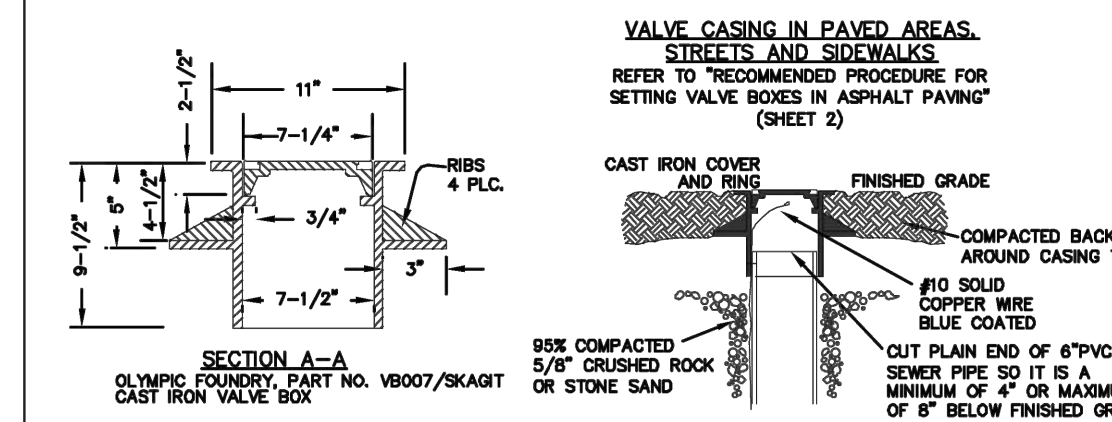
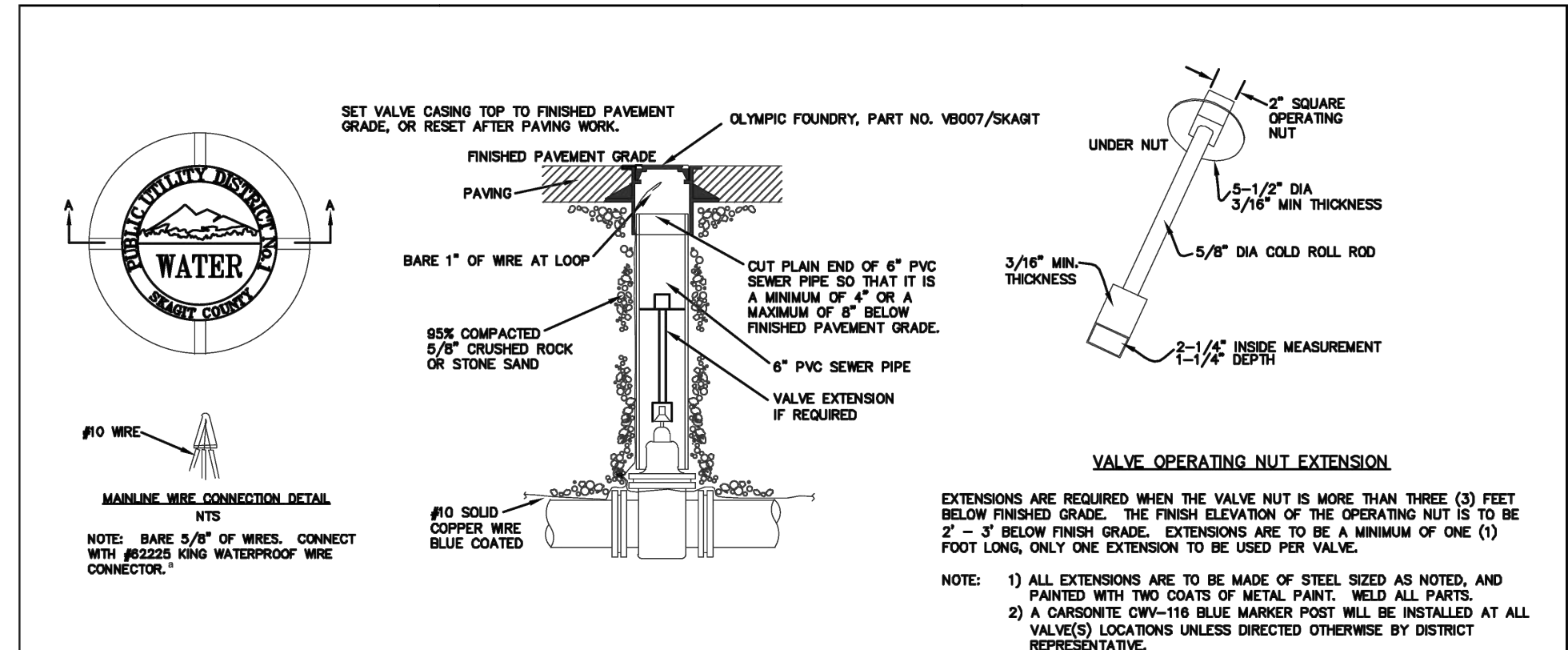
PUD NO. 1 OF SKAGIT COUNTY ENGINEERING MANAGER

APPROVED ON: MAY 21, 2014



STANDARD INSTALLATION OF  
1" COMBINATION AIR  
VALVE ASSEMBLY

SCALE: 1"=2'	STANDARD
DATE: 3-25-05	
REVISED: 5/21/14	
DRAWN BY: CAS	WV-1
APPROVED BY: GJS	



STANDARD INSTALLATION OF  
CAST IRON VALVE BOX &  
VALVE OPERATING NUT EXTENSION



STANDARD INSTALLATION OF  
CAST IRON VALVE BOX &  
VALVE OPERATING NUT EXTENSION

SCALE: NTS	STANDARD
DATE: 3-25-05	
REVISED: 5/6/14	
DRAWN BY: CAS	WV-1a
APPROVED BY: GJS	

PUD NO. 1 OF SKAGIT COUNTY ENGINEERING MANAGER

APPROVED ON: MAY 6, 2014

SHEET 1/2

RECOMMENDED PROCEDURE FOR RAISING AND SETTING CAST IRON VALVE BOX IN ASPHALT PAVING

- LOCATE BURIED VALVE BOX USING REFERENCE MEASUREMENTS AND/OR ELECTRONIC OR MAGNETIC LOCATOR. MARK LOCATION WITH WHITE PAINT.
- BREAK OUT SMALL HOLE IN PAVEMENT AND LOCATE THE VALVE BOX COVER. CAREFULLY BREAK OUT AN 18-INCH DIAMETER HOLE WITH 8-INCH RADIUS FROM THE CENTER OF THE VALVE BOX. A CIRCLE TEMPLATE 18 INCHES IN DIAMETER IS HANDY TO MARK OUT THE PERIMETER OF THIS HOLE. USE A CURVED SPADE WITH A JACKHAMMER TO CUT A NEAT VERTICAL FACE HOLE IN THE ASPHALT CONCRETE PAVEMENT. DO NOT CRACK OR DAMAGE THE PAVEMENT BEYOND THIS HOLE. IF IT IS SUSPECTED THE VALVE CASING IS NOT VERTICAL OR CENTERED OVER THE VALVE OPERATING NUT, REMOVE JUST ENOUGH PAVEMENT TO ALLOW REMOVAL OF THE VALVE BOX LID SO IT CAN BE DETERMINED IF CASING ADJUSTMENT IS NEEDED. IT IS VERY IMPORTANT TO NOT REMOVE ANY MORE FINISHED PAVEMENT THAN ABSOLUTELY NECESSARY.
- COMPLETELY REMOVE THE WHOLE VALVE BOX. DO NOT DISTURB THE SURROUNDING EARTH ANY MORE THAN NECESSARY. EXAMINE THE CASING PIPE. MAKE SURE IT IS VERTICAL, SYMMETRICAL AROUND THE VALVE NUT AND CLEAN OF ALL ROCKS, DEBRIS AND DIRT. CLEAN AND CORRECT AS NECESSARY. CHECK WITH A VALVE WRENCH TO VERIFY OPERATION IS SMOOTH.
- TRIM OR ADD TO THE CASING PIPE (6-INCH PVC PLASTIC OR CONCRETE) AS NEEDED SO THE TOP OF THE CASING PIPE IS A MINIMUM OF 4 INCHES TO MAXIMUM OF 8 INCHES BELOW THE FINISHED PAVEMENT GRADE. THE LID WILL NOT FIT TIGHT IF THE CASING IS HIGHER. VALVE BOX WILL HAVE POOR SUPPORT IF THE CASING PIPE IS LOWER TO ADD CASING PIPE TO THE LID. A PIECE OF 6-INCH PVC PLASTIC SEWER PIPE CUT 12 INCHES LONGER THAN NEEDED. SAW-CUT THIS PIECE ALONG ONE SIDE IN A STRAIGHT LINE THE FULL LENGTH. FOLD THE PIPE OVER THE SAW-CUT AND INSERT IT INSIDE THE CASING PIPE IN THE GROUND. SLIDE UP OR DOWN TO ACHIEVE DESIRED LEVEL.
- IF THE VALVE OPERATING NUT IS OVER 3 FEET BELOW FINISH PAVEMENT GRADE, INSTALL A STANDARD VALVE OPERATING EXTENSION, PER STANDARD SPECIFICATIONS.
- USING A 1-INCH ROD OR CARPED 3/4-INCH PIPE, THOROUGHLY POUND THE EARTH ALL AROUND THE CASING PIPE TO OBTAIN MAXIMUM EARTH COMPACTON.
- FILL THE VOID BETWEEN THE CASING PIPE AND EARTH WALL UP TO EXACTLY 12 INCHES (1 FOOT) BELOW FINISH PAVEMENT GRADE WITH 5/8-INCH MINUS CRUSHED ROCK AND THOROUGHLY COMPACT USING ROD OR PIPE AS IN STEP 7. KEEP ADDING AND COMPACTING CRUSHED ROCK UNTIL HARD, TIGHT LEVEL SURFACE IS EXACTLY 12 INCHES BELOW PAVEMENT GRADE.
- INSERT THE VALVE BOX. USING A STRAIGHT BOARD OR ROD, CHECK THAT THE TOP RIM OF THE VALVE BOX IS EXACTLY LEVEL WITH THE FINISHED PAVEMENT. THE BOX MUST SET EXACTLY ON THE CRUSHED ROCK BASE. IT MUST NOT ROCK OR Wobble. REMOVE THE LID AND ADJUST THE CRUSHED ROCK AS OFTEN AS NECESSARY TO ACHIEVE EXACT GRADE WITH PAVEMENT AND UNIFORM BOX SUPPORT. PUT CAST IRON LID ON THE BOX. MAKE SURE IT FITS CORRECTLY AND IS FLUSH WITH THE BOX RIM. REPLACE LID IF INCORRECT FIT. REPLACE ENTIRE VALVE BOX IF BOX RIM PREVENTS A SNUG FIT OF THE LID.
- ADD HOT MIX ASPHALTIC CONCRETE MATERIAL AND THOROUGHLY COMPACT WITH ROD OR PIPE TO THE FINISH PAVEMENT GRADE. SMOOTH OFF THE SURFACE AS MUCH AS POSSIBLE.
- USING A BRUSH, PAINT THE SURFACE OF THE PATCH WITH ASPHALT TACK MATERIAL. EXTENDING MINIMUM OF 1 INCH OVER PAVEMENT AND OUTTO EDGE OF VALVE BOX METAL RIM. DO NOT ALLOW ANY TACK MATERIAL TO FLOW INTO METAL RIM OR ON BOX COVER. USE A BRUSH TO CONTROL APPLICATION OF THIS TACK COAT AND PROVIDE A NEAT SEAL SURFACE.
- CHECK AGAIN THAT VALVE CASING IS CLEAR, THAT VALVE WRENCH CAN BE PUT ON OPERATING NUT AND VALVE CAN BE OPERATED PROPERLY.
- SPREAD CLEAN FINE SAND OVER THE TACK COAT SO THAT VEHICLE TIRES WILL NOT LIFT THE TACK MATERIAL BEFORE IT CURES AND SETS UP.
- EACH VALVE BOX IN A CLUSTER OF TWO TO FOUR VALVES MUST BE ADJUSTED INDEPENDENTLY AS OUTLINED ABOVE. CUTTING OUT TRIANGLES OR SQUARES OF FINISHED PAVEMENT RESULTS IN VALVE BOXES THAT DO NOT REMAIN EVEN WITH PAVEMENT, LEAN TOGETHER, AND BREAK OUT UNDER TRAFFIC BEATING.

CAREFULLY FOLLOWING THIS OUTLINED PROCEDURE RESULTS IN VALVE BOX SETTINGS THAT WILL REMAIN FIRM AND IN PLACE AND ARE VIRTUALLY UNNOTICED BY THE PUBLIC PASSING OVER THEM IN THEIR VEHICLES.

PUD NO. 1 OF SKAGIT COUNTY ENGINEERING MANAGER

APPROVED ON: MAY 6, 2014

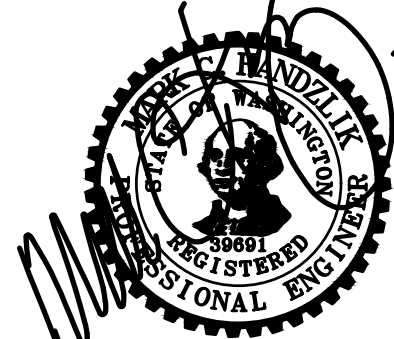


STANDARD INSTALLATION OF  
CAST IRON VALVE BOX &  
VALVE OPERATING NUT EXTENSION

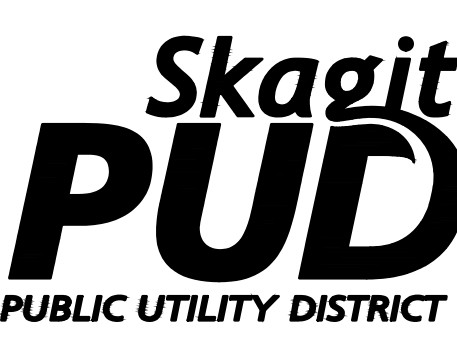
SCALE: NTS	STANDARD
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DRAWN BY: CAS	WV-1b
APPROVED BY: GJS	

SHEET 2/2

ISSUE	REVISIONS	BY	DATE
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2.	90% DESIGN	MCH	12/21/17
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ALTA VISTA, VISTA VIEW AND PLAZA DR.  
STANDARD DETAILS

SCALE: NONE	P.N. 16-03632	SHEET:
	C.O. 4926	15 OF 16

**SIGN SPACING = X (1)**

FREWAYS & EXPRESSWAYS	55 / 70 MPH	1500' ±
RURAL HIGHWAYS	60 / 65 MPH	800' ±
RURAL ROADS	45 / 55 MPH	500' ±
RURAL ROADS & URBAN ARTERIALS	35 / 40 MPH	350' ±
RURAL ROADS & URBAN ARTERIALS	25 / 30 MPH	200' ± (2)
RESIDENTIAL & BUSINESS DISTRICTS		
URBAN STREETS	25 MPH OR LESS	100' ± (2)

**LEGEND:**

- TEMPORARY SIGN LOCATION
- 28" REFLECTIVE TRAFFIC CONE (SEE NOTE 3)
- OPTIONAL CHANNELIZATION DEVICE
- PROTECTIVE VEHICLE (SEE NOTE 2)
- FLAGGER

**LONGITUDINAL BUFFER SPACE = B**

SPEED (MPH)	25	30	35	40	45	50	55
LENGTH (feet)	155	200	250	305	360	425	495

**CHANNELIZATION DEVICE SPACING (feet)**

MPH	TAPER	TANGENT
50/70	40	80
35/45	30	60
25/30	20	40

**NOTES:**

- AVOID PLACING LANE CLOSURE TAPERS WITHIN OR IMMEDIATELY FOLLOWING HORIZONTAL & VERTICAL CURVES BY ADJUSTING LONGITUDINAL BUFFER SPACE.
- IF LONGITUDINAL BUFFER SPACE IS REDUCED FROM DISTANCES LISTED IN TABLE, UPGRADE PROTECTIVE VEHICLE TO A TRANSPORTABLE ATTENUATOR.
- 36" TRAFFIC CONES, 42" TAPER CHANNELIZATION DEVICES, OR TRAFFIC SAFETY DRUMS OK. BICYCLISTS MAY BE COMBINED WITH ALTERNATING VEHICULAR TRAFFIC. BIKES TO CLEAR PRIOR TO FLAGGERS RELEASING ONCOMING TRAFFIC.
- ACCOMMODATE PEDESTRIANS VIA SHUTTLE THROUGH LANE CLOSURE, USING THE PAVED SHOULDER OPPOSITE THE WORK AREA, OR ANOTHER METHOD THE ENGINEER ACCEPTS.
- SEE STANDARD SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS:
  - 1-07.8(1) HIGH-VISIBILITY APPAREL
  - 1-10.3(1) A FLAGGERS AND NIGHTTIME ILLUMINATION
  - 1-10.3(2) A TRAFFIC CONTROL PROCEDURES
  - 9-35.1 24-INCH STOP/SLOW PADDLE SIZE
- FOR PROJECT-SPECIFIC REQUIREMENTS, SEE SPECIAL PROVISIONS.
- SIGNS ARE BLACK ON ORANGE UNLESS OTHERWISE INDICATED.
- ACTUAL CENTERLINE PAVEMENT MARKINGS MAY VARY.

**Skagit PUD** PUBLIC UTILITY DISTRICT  
SCALE: NONE  
DRAWN BY: JLB  
REVISED: 4/1/25

**RECOMMENDED SIGN SPACING - X (1)**

RURAL HIGHWAYS	60-65 MPH	800'
RURAL ROADS	45-55 MPH	500'
URBAN STREETS	25 MPH OR LESS	100' ± (2)

**LEGEND:**

- TEMPORARY SIGN LOCATION
- TRAFFIC SAFETY DRUM
- TRANSPORTABLE ATTENUATOR

**NOTES:**

- AVOID PLACING LANE CLOSURE TAPERS WITHIN OR IMMEDIATELY FOLLOWING HORIZONTAL & VERTICAL CURVES BY ADJUSTING LONGITUDINAL BUFFER SPACE.
- IF LONGITUDINAL BUFFER SPACE IS REDUCED FROM DISTANCES LISTED IN TABLE, UPGRADE PROTECTIVE VEHICLE TO A TRANSPORTABLE ATTENUATOR.
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  - 1-10.3(1) FLAGGERS AND NIGHTTIME ILLUMINATION
  - 1-10.3(2) TRAFFIC CONTROL PROCEDURES
  - 9-35.1 24-INCH STOP/SLOW PADDLE SIZE
- FOR PROJECT-SPECIFIC REQUIREMENTS, SEE SPECIAL PROVISIONS.
- SIGNS ARE BLACK ON ORANGE UNLESS OTHERWISE INDICATED.
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- SPEED LIMIT: 50

**Skagit PUD** PUBLIC UTILITY DISTRICT  
SCALE: NTS  
JOB # 19-003  
SHEET 16 OF 16

**RECOMMENDED SIGN SPACING - X (1)**

RURAL HIGHWAYS	60-65 MPH	800'
RURAL ROADS	45-55 MPH	500'
URBAN STREETS	25 MPH OR LESS	100' ± (2)

**LEGEND:**

- TEMPORARY SIGN LOCATION

**NOTES:**

- AVOID PLACING LANE CLOSURE TAPERS WITHIN OR IMMEDIATELY FOLLOWING HORIZONTAL & VERTICAL CURVES BY ADJUSTING LONGITUDINAL BUFFER SPACE.
- ACCOMMODATE PEDESTRIANS VIA SHUTTLE THROUGH THE PAVED SHOULDER OPPOSITE THE WORK AREA.
- SEE STANDARD SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS:
  - 1-07.8(1) HIGH-VISIBILITY APPAREL
  - 1-10.3(1) FLAGGERS AND NIGHTTIME ILLUMINATION
  - 1-10.3(2) TRAFFIC CONTROL PROCEDURES
  - 9-35.1 24-INCH STOP/SLOW PADDLE SIZE
- FOR PROJECT-SPECIFIC REQUIREMENTS, SEE SPECIAL PROVISIONS.
- SIGNS ARE BLACK ON ORANGE.
- ACTUAL CENTERLINE PAVEMENT MARKINGS MAY VARY.
- SPEED LIMIT: 50 MPH & 25 MPH
- APPROXIMATE DURATION OF WORK REQUIRING THIS TCP: 6 WORKING DAYS

**Skagit PUD** PUBLIC UTILITY DISTRICT  
SCALE: NTS  
JOB # 19-003  
SHEET 1 OF 2

**RECOMMENDED SIGN SPACING - X (1)**

RURAL HIGHWAYS	60-65 MPH	800'
RURAL ROADS	45-55 MPH	500'
URBAN STREETS	25 MPH OR LESS	100' ± (2)

**LEGEND:**

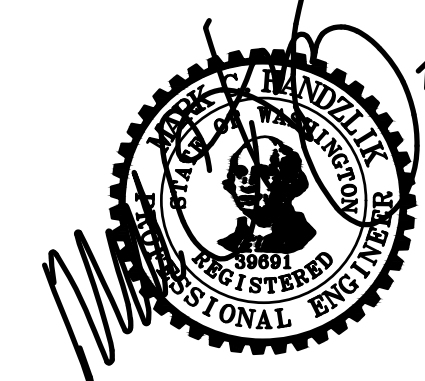
- TEMPORARY SIGN LOCATION

**NOTES:**

- AVOID PLACING LANE CLOSURE TAPERS WITHIN OR IMMEDIATELY FOLLOWING HORIZONTAL & VERTICAL CURVES BY ADJUSTING LONGITUDINAL BUFFER SPACE.
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- FOR PROJECT-SPECIFIC REQUIREMENTS, SEE SPECIAL PROVISIONS.
- SIGNS ARE BLACK ON ORANGE.
- ACTUAL CENTERLINE PAVEMENT MARKINGS MAY VARY.
- SPEED LIMIT: 50 MPH & 25 MPH
- APPROXIMATE DURATION OF WORK REQUIRING THIS TCP: 6 WORKING DAYS

**Skagit PUD** PUBLIC UTILITY DISTRICT  
SCALE: NTS  
JOB # 19-003  
SHEET 2 OF 2

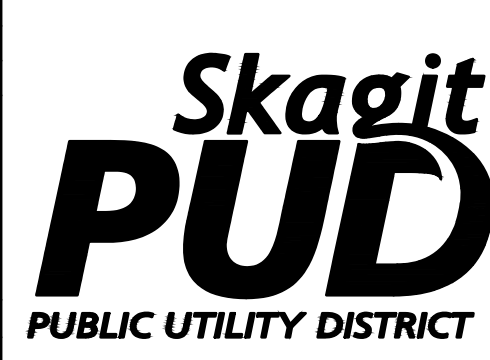
ISSUE	REVISIONS	BY	DATE
1.	30% DESIGN	MCH	4/25/16
2.	90% DESIGN	MCH	12/21/17
3.	ISSUED FOR BIDDING	MCH	7/29/25



DATUM:  
HOR: NAD 83  
VERT: NAVD 88

DSGN BY: CAS  
DWN BY: JLB  
APPVD BY: MCH

DATE PRINTED: SEC: 27  
TWP: 35 N  
RGE: 4 E



PUBLIC UTILITY DISTRICT  
NO. 1 of SKAGIT COUNTY  
1415 Freeway Drive  
P.O. BOX 1436  
Mount Vernon, WA 98273  
(360) 424-7104  
www.SkagitPud.org

ALTA VISTA, VISTA VIEW AND PLAZA DR.  
TRAFFIC CONTROL

SCALE: NONE  
P.N. 16-03632  
C.O. 4926

SHEET:  
16 OF 16