

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
	PK NAIL	PK	SV-CTRL-EXST-SYM
	SOIL BORING	BORE	SV-SOIL-EXST-SYM
	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
	GATE POST	POST	SF-FENC-EXST-SYM
	CONIFEROUS TREE	SFC	SF-VEGE-EXST-SYM
	DECIDUOUS TREE	SFD	SF-VEGE-EXST-SYM
	BUSH/SHRUB	PUBUSH	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
	TRAFFIC JUNCTION BOX	TJB1	TF-STCR-EXST-SYM
	ELEC. JUNCTION BOX	TJB1	PO-STCR-EXST-SYM
	POWER METER	EM	PO-STCR-EXST-SYM
	TELECOM. JUNCTION BOX	TJB1	TL-STCR-EXST-SYM
	CABLE TV JUNCTION BOX	TJB1	TV-STCR-EXST-SYM
	JUNCTION BOX	TJB1	UT-STCR-EXST-SYM
	TELEPHONE RISER	TEL	TL-STCR-EXST-SYM
	UTILITY POLE	UP	PO-STCR-EXST-SYM
	UTILITY POLE W/CONDUIT	UP	PO-STCR-EXST-SYM
	GUY ANCHOR	UPA	PO-STCR-EXST-SYM
	GUY POLE	GUP	PO-STCR-EXST-SYM
	TRANSFORMER	TRAN	PO-STCR-EXST-SYM
	POWER VAULT	POWRV	PO-STCR-EXST-SYM
	TRANSMISSION TOWER	PTWR	PO-STCR-EXST-SYM
	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
	MONITORING WELL	UT	UT-STCR-EXST-SYM
	WATER MANHOLE	WMH	WA-STCR-EXST-SYM
	SPRINKLER HEAD	SPRHD	WA-MISC-EXST-SYM
	IRRIGATION BOX	ICV	WA-MISC-EXST-SYM

WATER SYMBOLS

SYMBOL	DESCRIPTION	BLOCK	LAYER
	EXIST. PROP.		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
ROAD STATIONING	.10	SV-CNTL-EXST-TXT
PARCEL NUMBER	.20	SV-PRCL-EXST-TXT
ADDRESS	.15	G-MISC-EXST-TXT

LINE TYPES

LINETYPE	DESCRIPTION	LAYER
	GENERIC GAS LINE	GS-PLIN-EXST-LIN
	HIGH PRESSURE GAS	GS-PLIN-EXST-LIN
	LOW PRESSURE GAS	GS-PLIN-EXST-LIN
	IRRIGATION	WA-IRR-EXST-LIN
	STORM DRAIN	SD-GLIN-EXST-LIN
	EXISTING CULVERT	SD-CULV-EXST-LIN
	SANITARY SEWER	SS-GLIN-EXST-LIN
	SS FORCEMAIN	SS-PLIN-EXST-LIN
	WATER LINE	WA-PLIN-EXST-LIN
	UNDERGROUND POWER	PO-BLIN-EXST-LIN
	UNDERGROUND FIBER OPTIC	FO-BLIN-EXST-LIN
	UNDERGROUND TELEPHONE	TL-BLIN-EXST-LIN
	UNDERGROUND TELEVISION	TV-BLIN-EXST-LIN
	OVERHEAD ELECTRIC	PO-ALIN-EXST-LIN
	OVERHEAD FIBER OPTIC	FO-ALIN-EXST-LIN
	OVERHEAD TELEPHONE	TL-ALIN-EXST-LIN
	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
	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
	FOG LINE	SF-STRP-EXST-LIN
	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
PAVEMENT RESTORATION:	
PERM PVMT. PATCH - SOLID	SF-ASPH-PROP-HCH
PERM CONC. - NET, 0' SCALE=10	SF-CONC-PROP-HCH

ISSUE	REVISIONS	BY	DATE
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2.	90% DESIGN	MCH	7/19/23
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DATUM: HOR: NAD 83 VERT: NAVD 88	DSGN BY: CAS DWN BY: JLB APPVD BY: MCH
DATE PRINTED: 10/31/23	SEC: 2 TWP: 34 N RGE: 3 E

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Mount Vernon, WA 98273
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SKAGIT COUNTRY CLUB PIPELINE REPLACEMENT PROJECT

LEGEND

SCALE: 1"=20'	P.N. 03737	SHEET: 1 OF 37
	C.O. 5018	

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

STATION _____ TEST PRESSURE _____
 TEST DATE _____ TIME END _____
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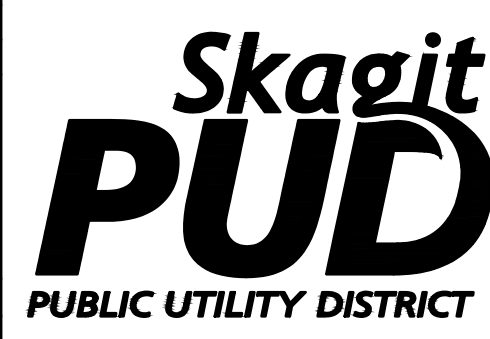
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2.	90% DESIGN	MCH	7/19/23
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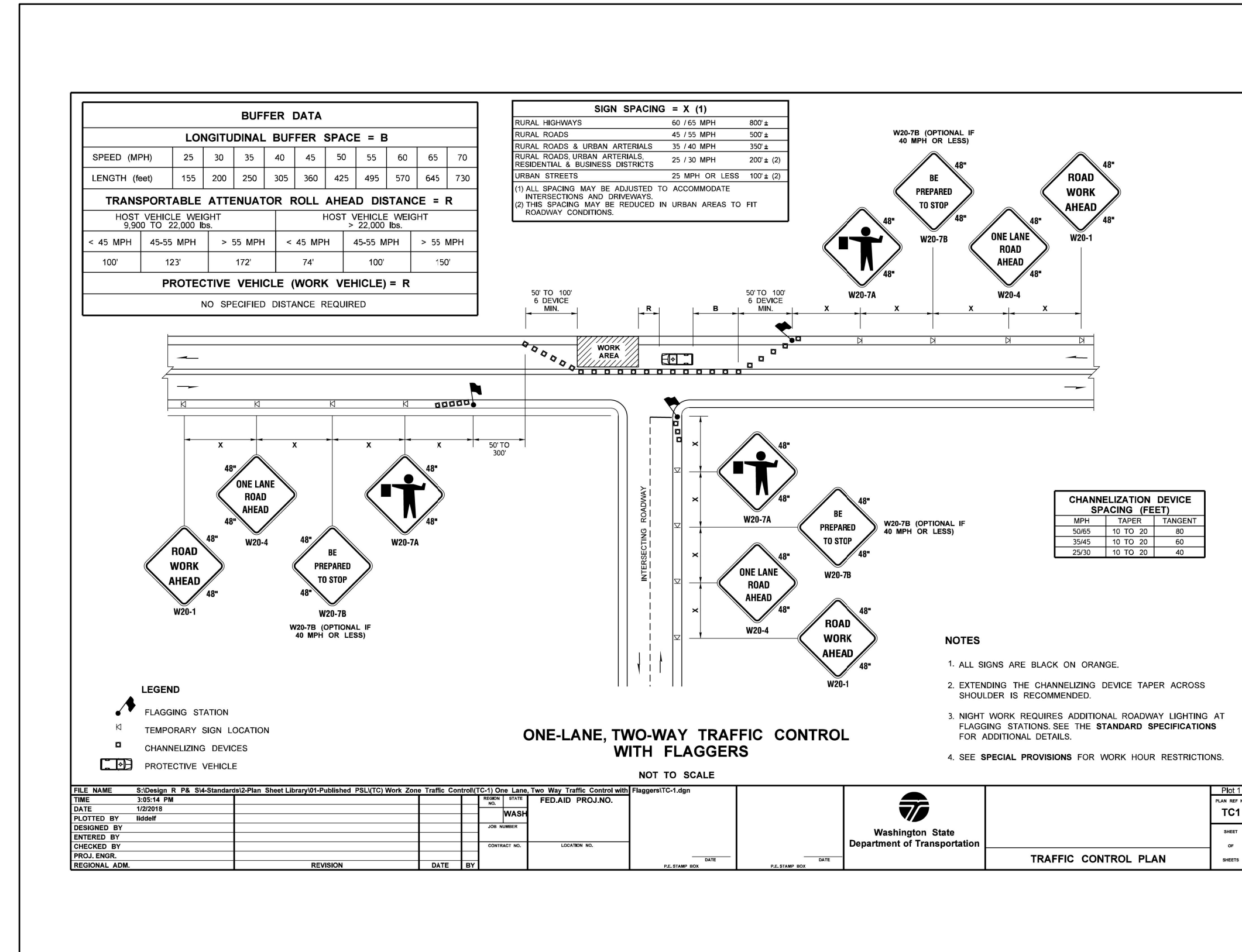


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 Mount Vernon, WA 98273
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SKAGIT COUNTRY CLUB PIPELINE REPLACEMENT PROJECT
 GENERAL NOTES & TCP
 SCALE: 1"=20'
 P.N. 03737
 C.O. 5018
 SHEET: 2 OF 37

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.

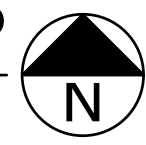


FILE NAME	DATE	BY	REVISION	DATE	BY
100216	10/31/23	MCH			

DESIGNED BY: MCH	CHECKED BY: MCH	DATE: 10/31/23	BY: MCH	REVISION:	DATE:	BY:
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SHUTDOWN MAP
NOT TO SCALE



ISSUE	REVISIONS	BY	DATE
1.	60% DESIGN	MCH	5/1/23
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VERT: NAVD 88

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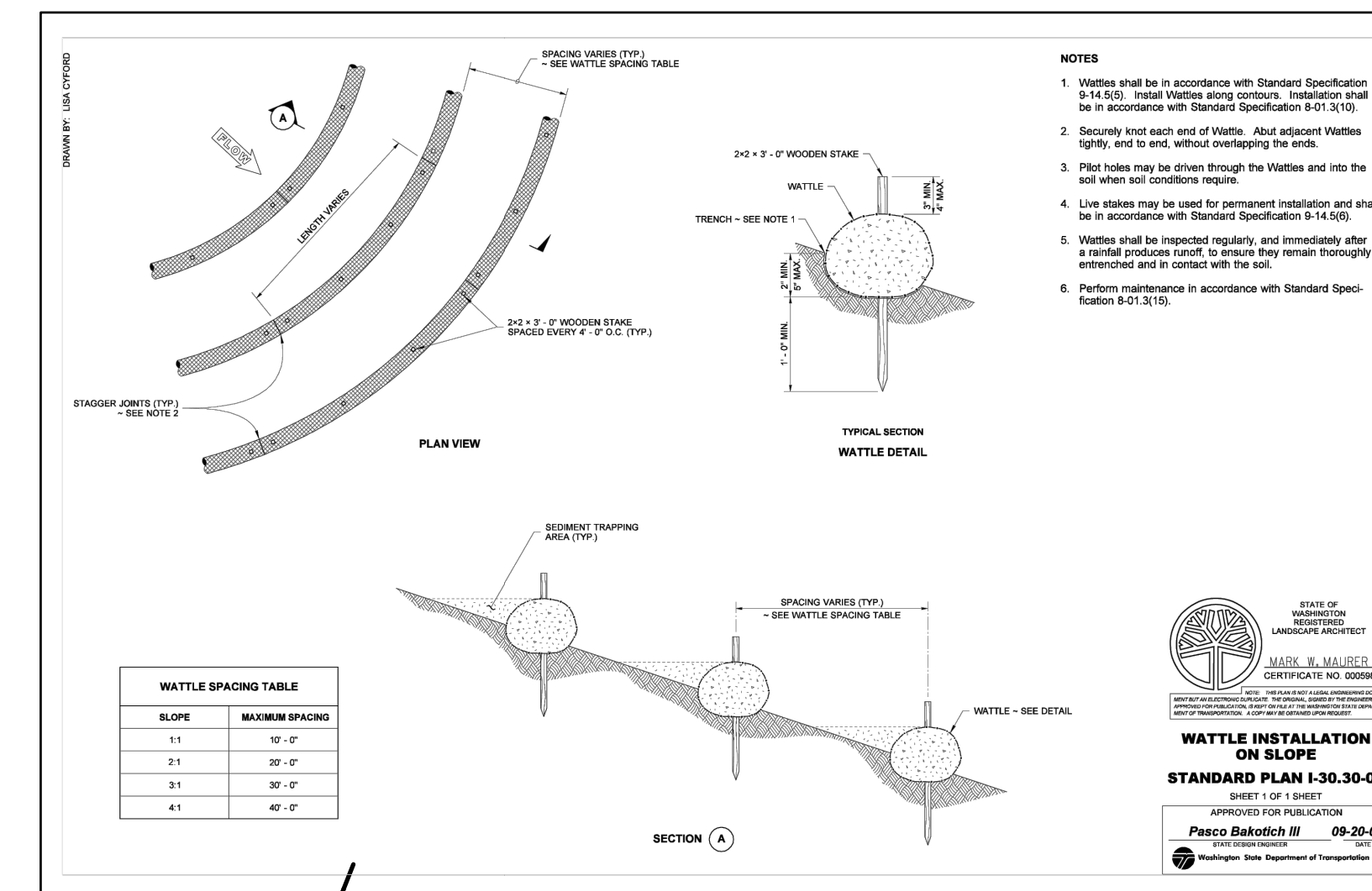
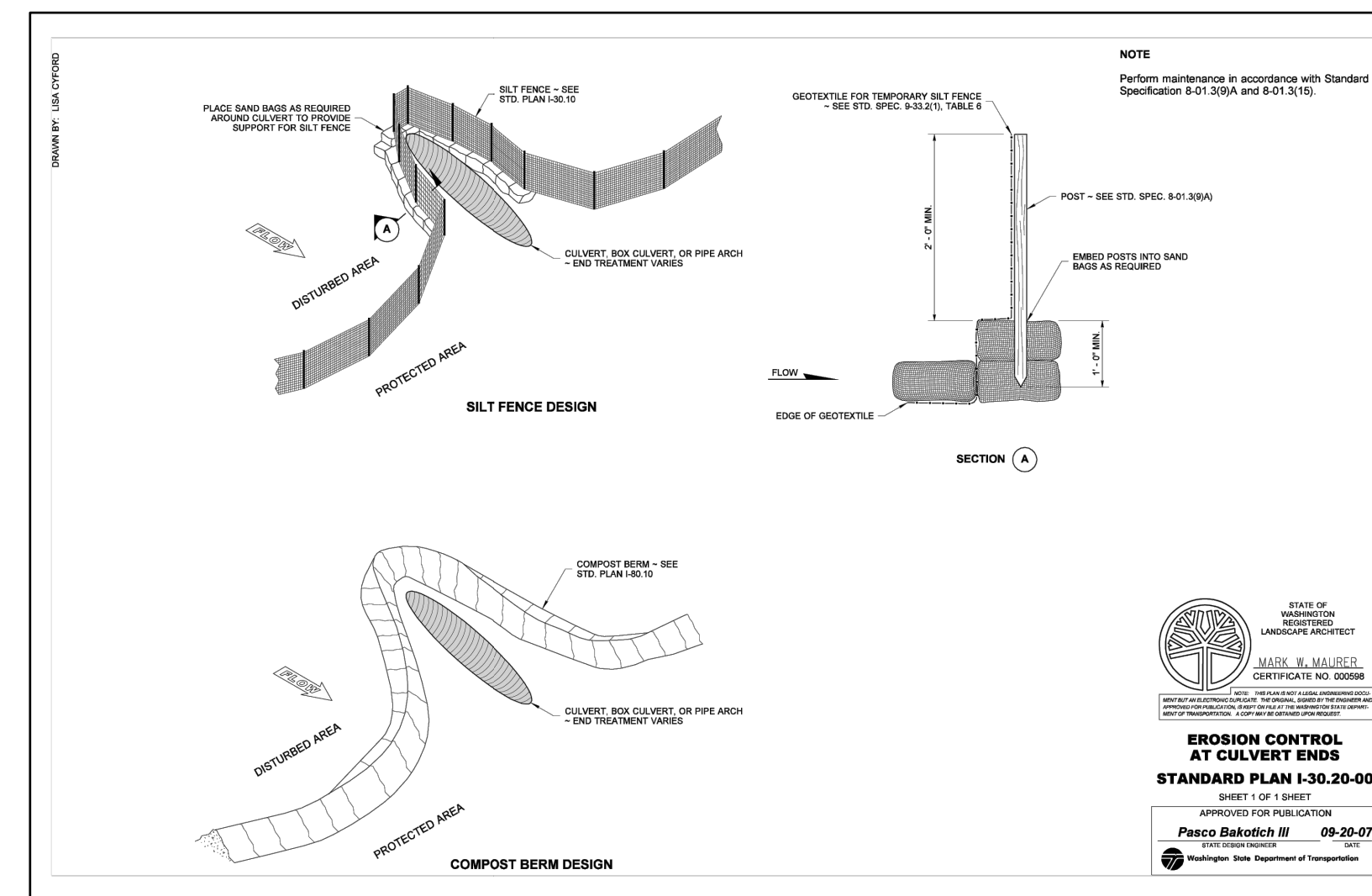
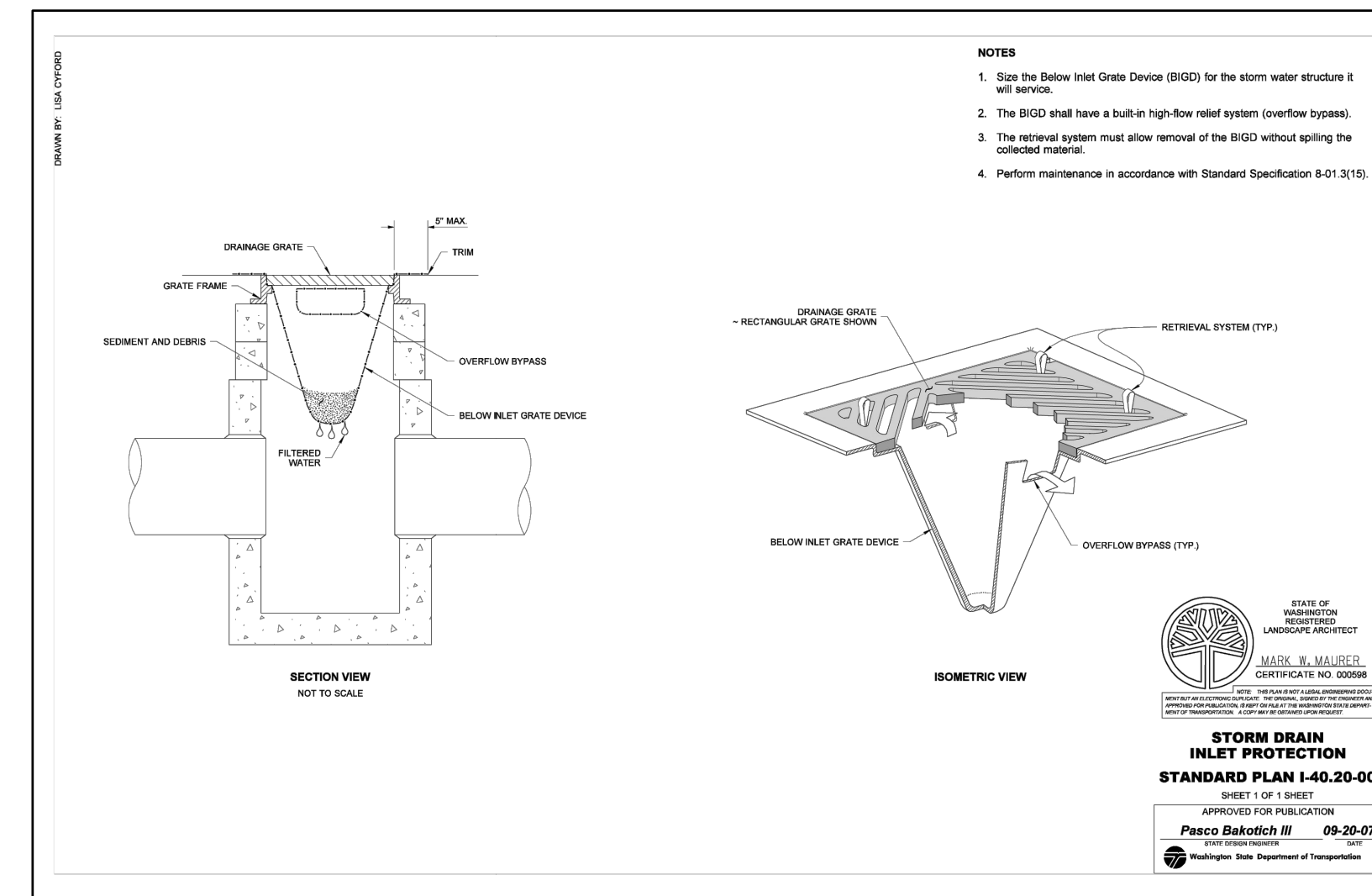


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SKAGIT COUNTRY CLUB PIPELINE
REPLACEMENT PROJECT
SHUTDOWN MAP

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 2023 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 UPGRADE 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. TRANSFEREE IS: _____
- THE ESC FACILITIES SHALL BE INSPECTED DAILY BY THE TRANSFEREE/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.



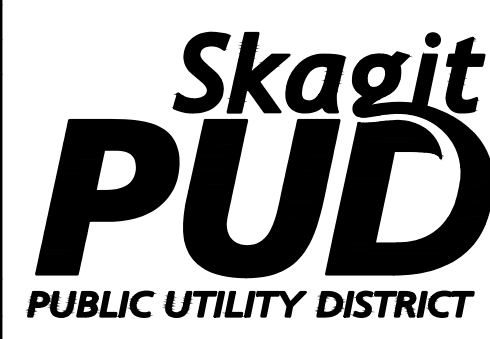
ISSUE	REVISIONS	BY	DATE
1.	60% DESIGN	MCH	5/1/23
2.	90% DESIGN	MCH	7/19/23
3.	ISSUED FOR BIDDING	MCH	10/31/23



DATUM:
HOR: NAD 83
VERT: NAVD 88

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

DATE PRINTED: 10/31/23
SEC: 2
TWP: 34 N
RGE: 3 E



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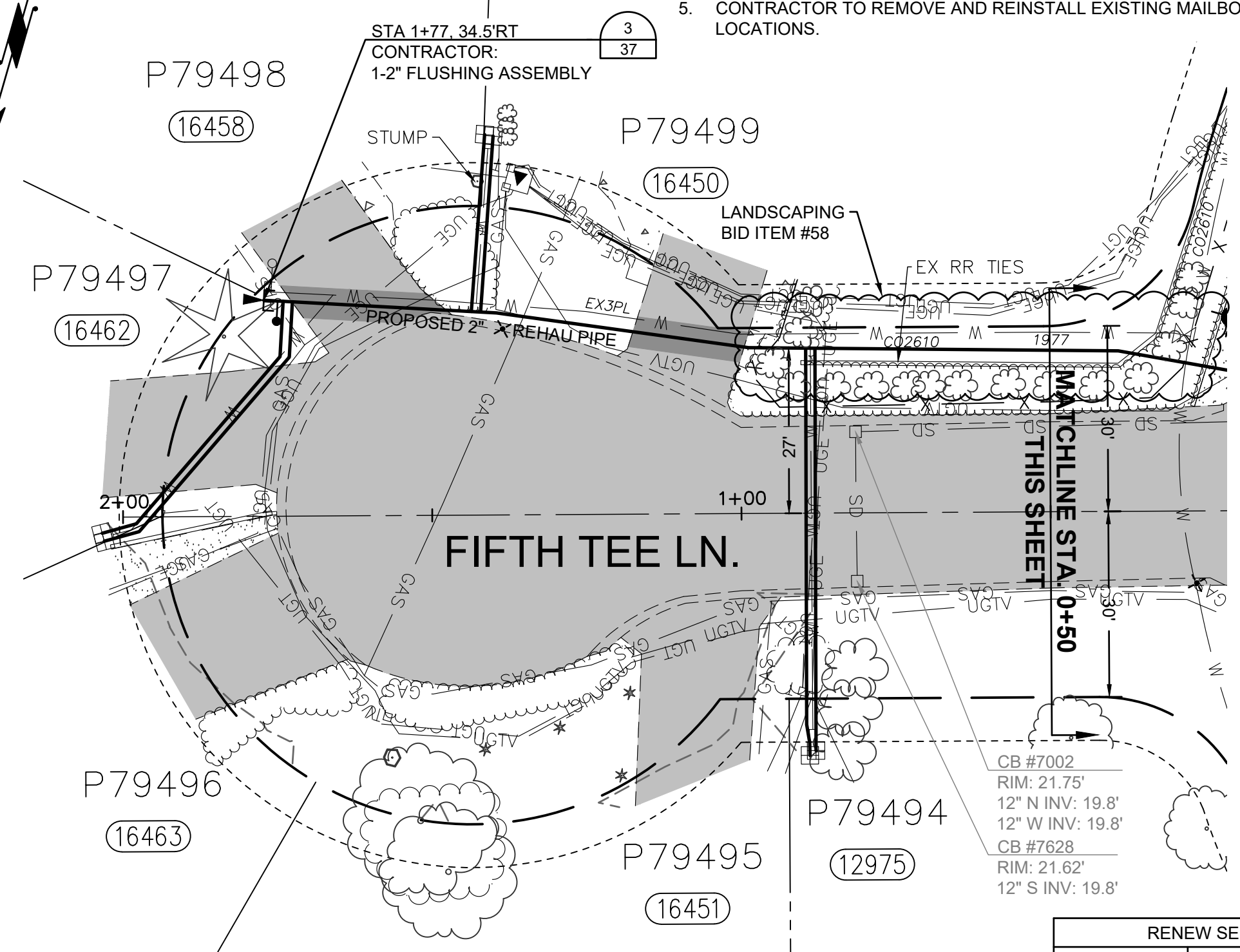
SKAGIT COUNTRY CLUB PIPELINE
REPLACEMENT PROJECT
BMP AND STORM DETAILS

SCALE: 1"=20'

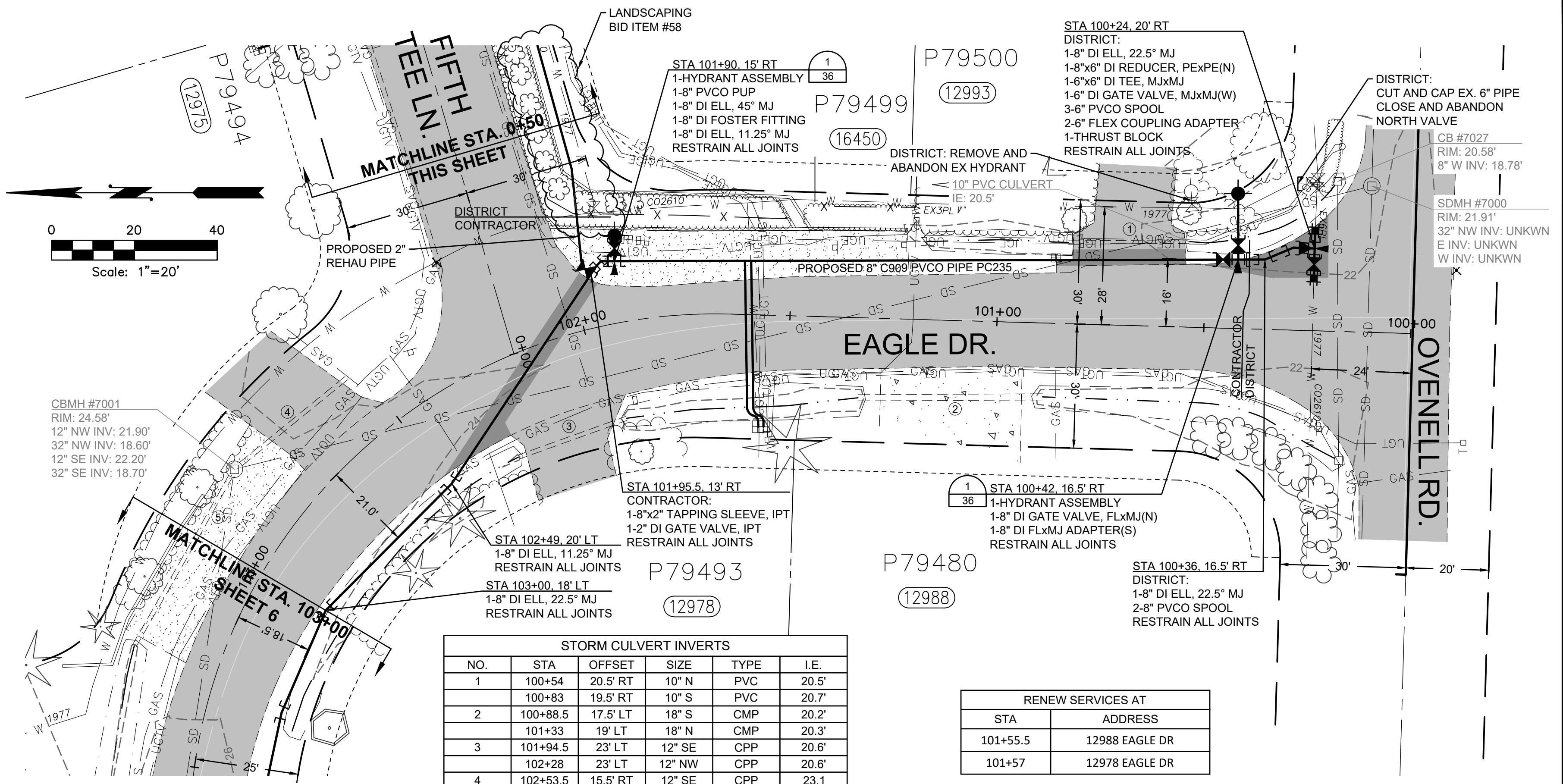
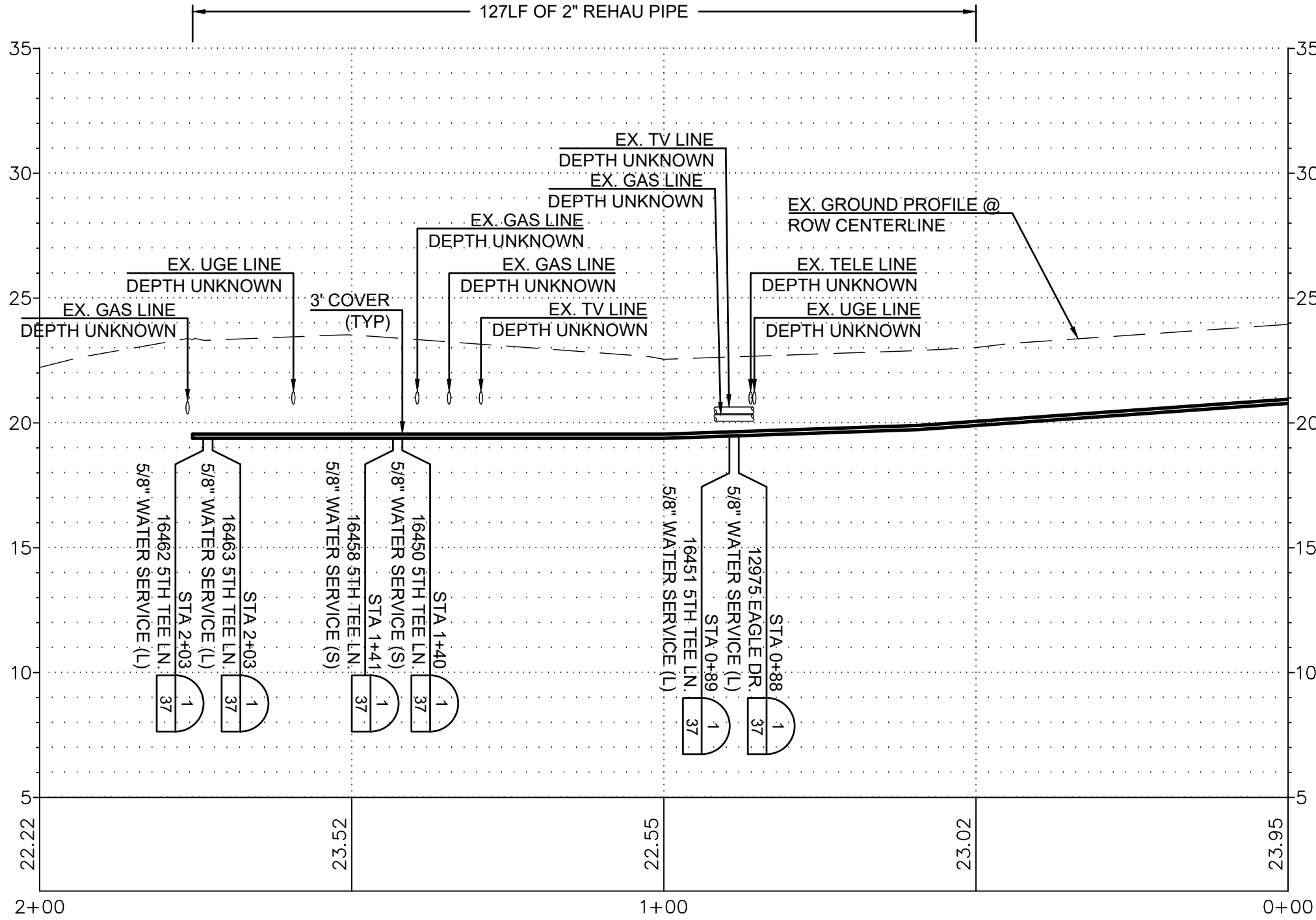
P.N. 03737
C.O. 5018

SHEET:
4 OF 37

- NOTES:
1. CONTRACTOR TO EXPOSE EX. METER SETTERS 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 REMOVE AND REINSTALL EXISTING MAILBOXES IN PREVIOUS LOCATIONS.

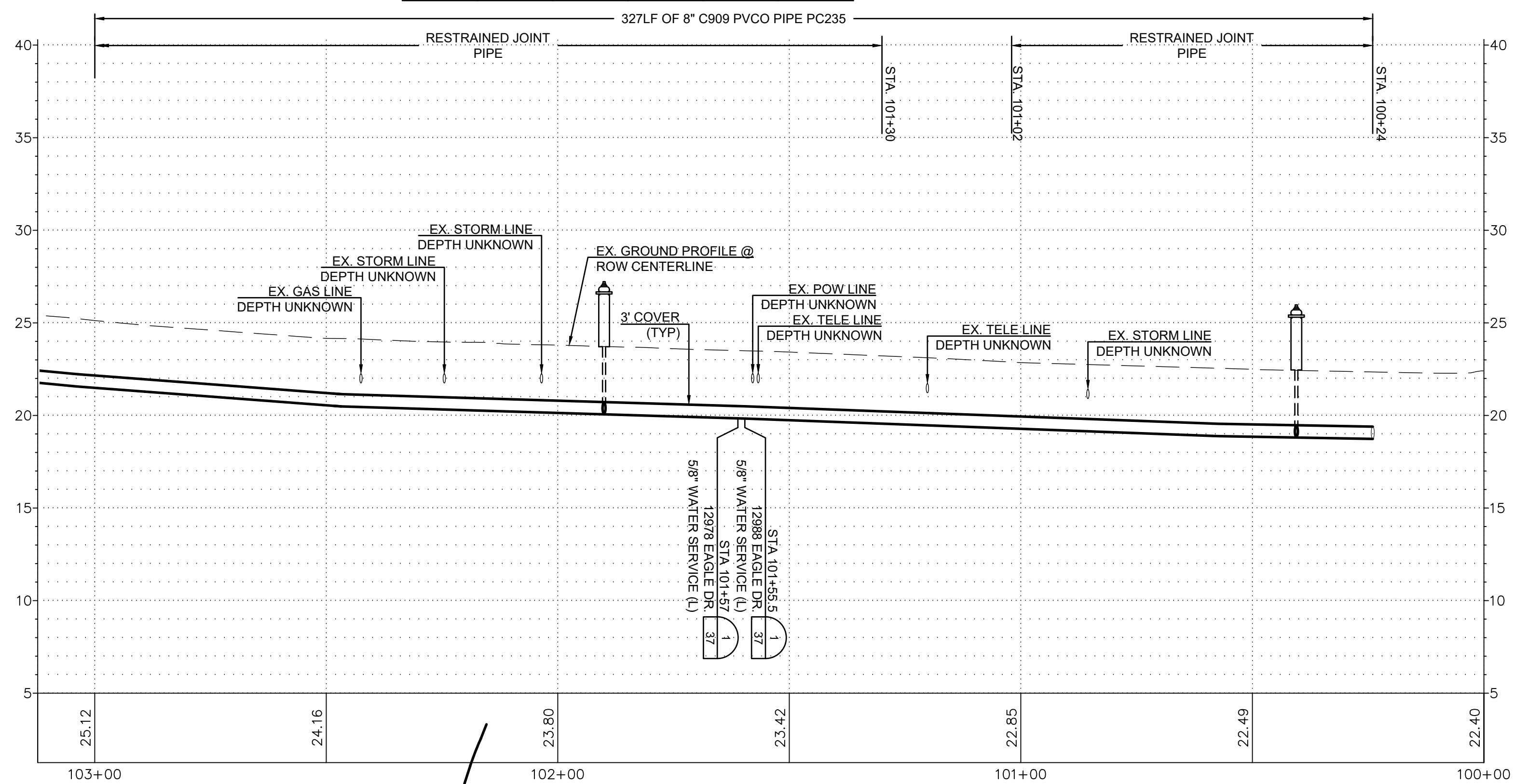


RENEW SERVICES AT	
STA	ADDRESS
0+88	12975 EAGLE DR.
0+89	16451 5TH TEE LN.
1+40	16450 5TH TEE LN.
1+41	16458 5TH TEE LN.
2+03	16463 5TH TEE LN.
2+03	16462 5TH TEE LN.



STORM CULVERT INVERTS					
NO.	STA	OFFSET	SIZE	TYPE	I.E.
1	100+54	20.5' RT	10" N	PVC	20.5'
	100+83	19.5' RT	10" S	PVC	20.7'
2	100+88.5	17.5' LT	18" S	CMP	20.2'
	101+33	19' LT	18" N	CMP	20.3'
3	101+94.5	23' LT	12" SE	CPP	20.6'
	102+28	23' LT	12" NW	CPP	20.6'
4	102+53.5	15.5' RT	12" SE	CPP	23.1'
	102+83	19.5' RT	12" NW	CPP	21.9'
	102+86	19' LT	12" SE	CMP	21.9'
	103+26.5	21' LT	12" NW	CMP	25.7'

RENEW SERVICES AT	
STA	ADDRESS
101+55.5	12988 EAGLE DR.
101+57	12978 EAGLE DR.



ISSUE	REVISIONS	BY	DATE
1.	60% DESIGN	MCH	5/1/23
2.	90% DESIGN	MCH	7/19/23
3.	ISSUED FOR BIDDING	MCH	10/31/23



DATUM:
HOR: NAD 83
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RGE: 3 E



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SKAGIT COUNTRY CLUB PIPELINE
REPLACEMENT PROJECT

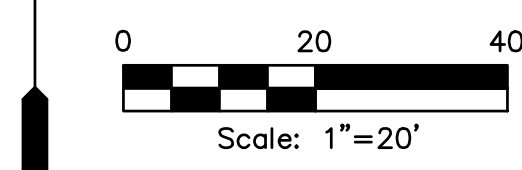
EAGLE DR/5TH TEE LN
PLAN AND PROFILE
STA 100+00 TO STA 103+00
STA 0+00 TO STA 2+00

SCALE: 1"=20'

P.N. 03737
C.O. 5018

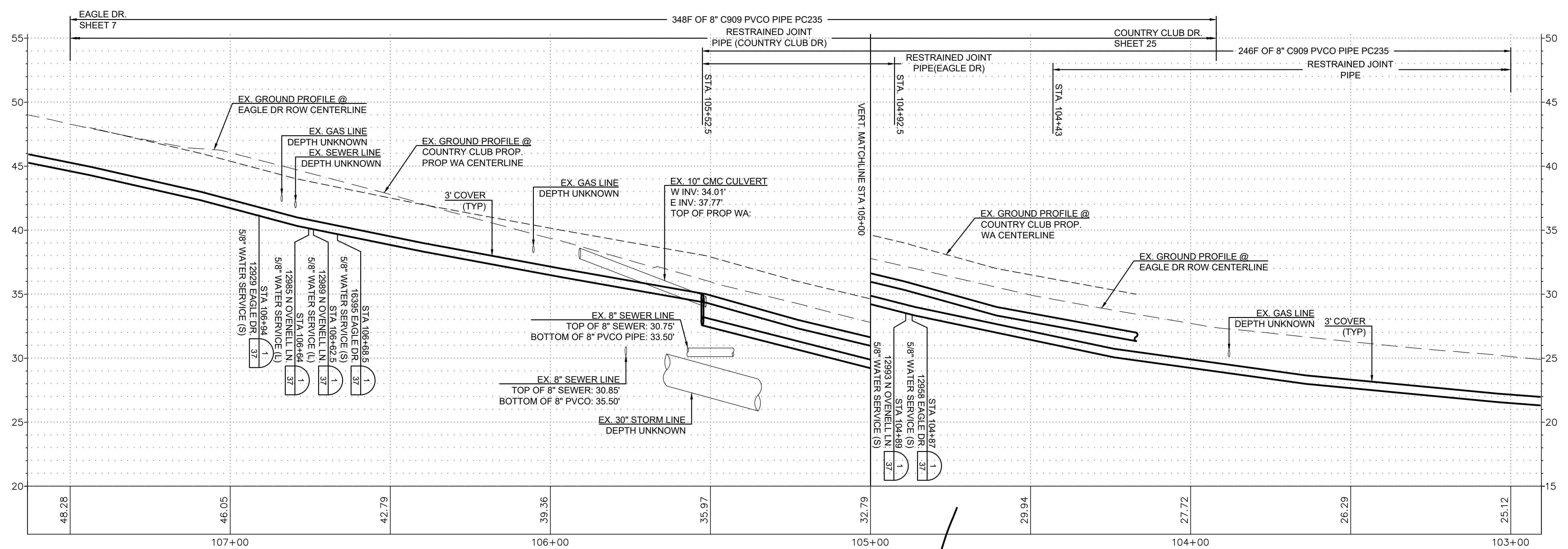
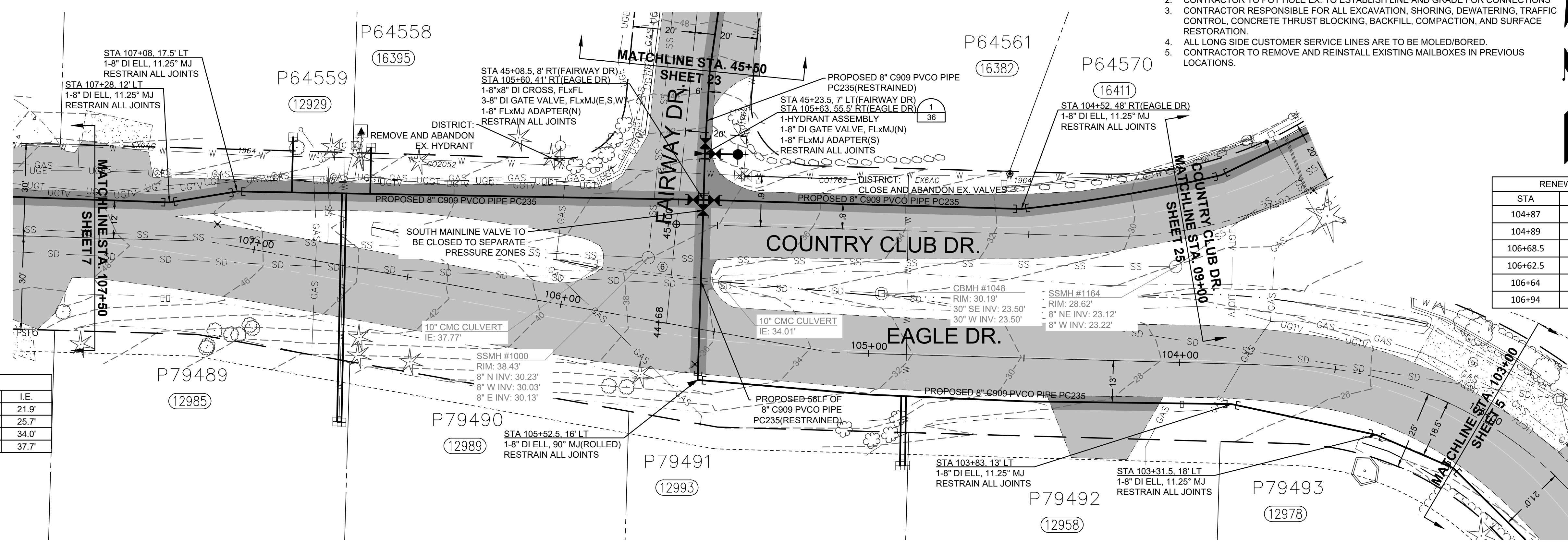
SHEET:
5 OF 37

- NOTES:
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 5. CONTRACTOR TO REMOVE AND REINSTALL EXISTING MAILBOXES IN PREVIOUS LOCATIONS.



RENEW SERVICES AT	
STA	ADDRESS
104+87	12958 EAGLE DR
104+89	12993 N OVENELL LN
106+68.5	16395 EAGLE DR
106+62.5	12989 N OVENELL LN
106+64	12985 N OVENELL LN
106+94	12929 EAGLE DR

STORM CULVERT INVERTS					
NO.	STA	OFFSET	SIZE	TYPE	I.E.
5	102+86	19' LT	12" SE	CMP	21.9'
	103+26.5	21' LT	12" NW	CMP	25.7'
6	105+51.5	16' LT	10" SE	CMC	34.0'
	105+91	13.5' LT	10" NW	CMC	37.7'



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1.	60% DESIGN	MCH	5/1/23
2.	90% DESIGN	MCH	7/19/23
3.	ISSUED FOR BIDDING	MCH	10/31/23



DATUM:
HOR: NAD 83
VERT: NAVD 88

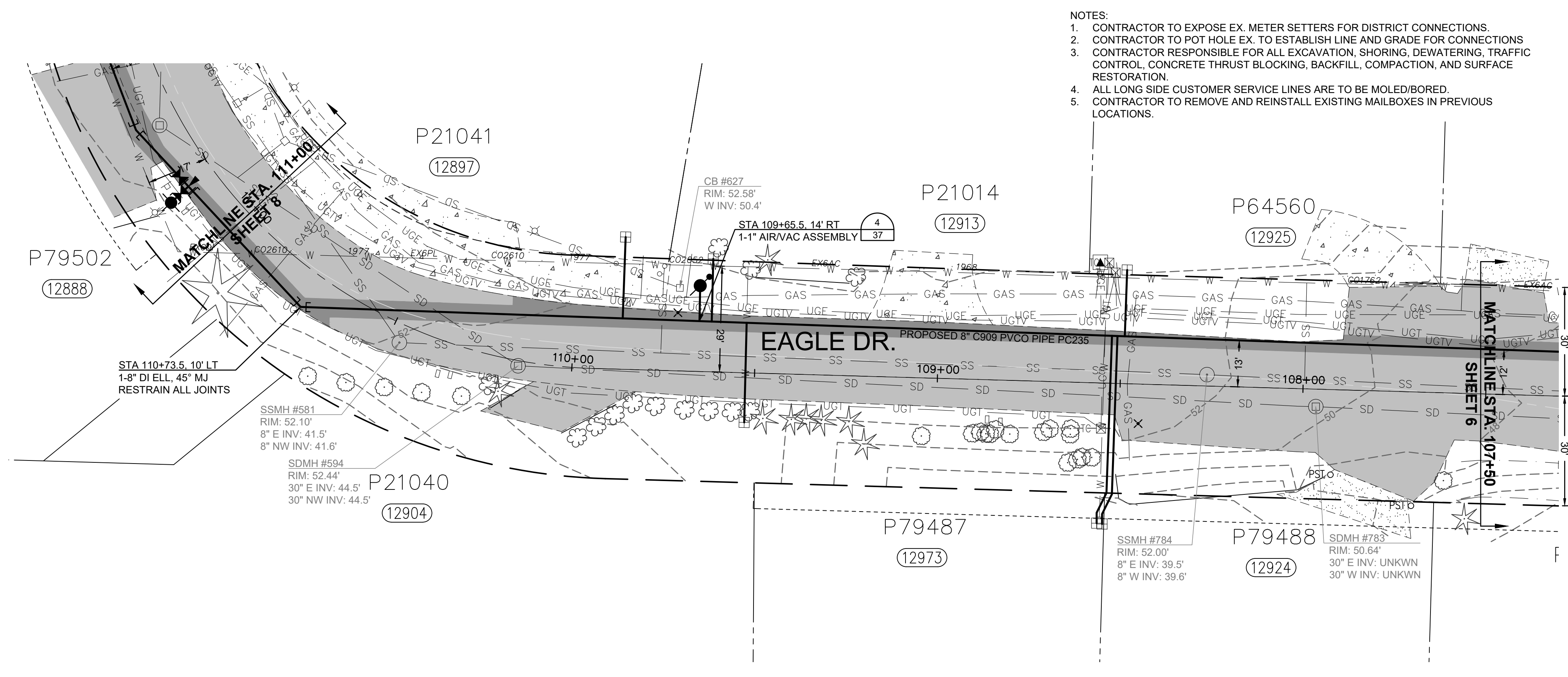
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DWN BY: JLB
APPVD BY: MCH

DATE PRINTED: 10/31/23
SEC: 2
TWP: 34 N
RGE: 3 E

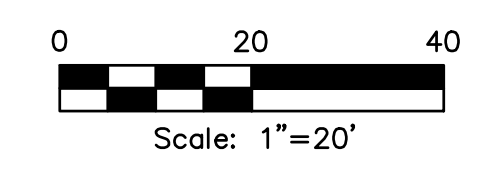


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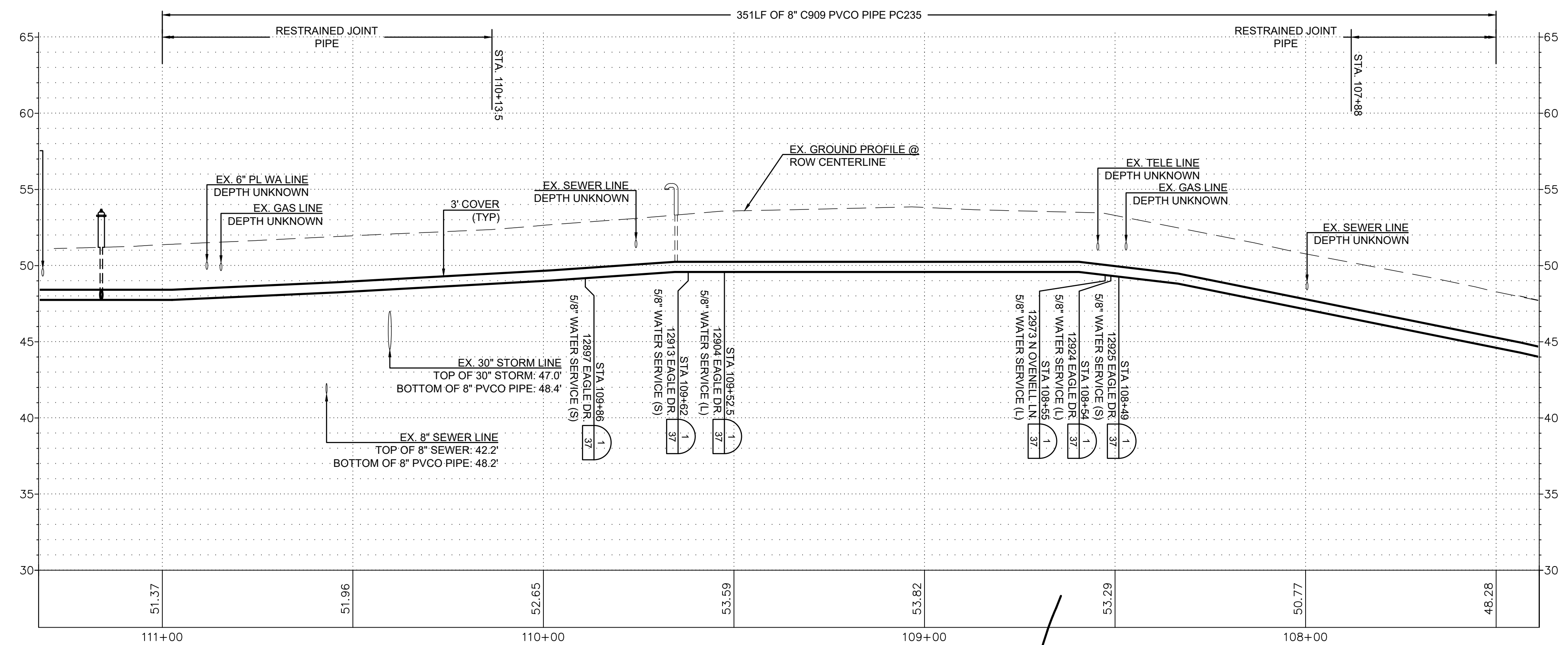
SKAGIT COUNTRY CLUB PIPELINE
REPLACEMENT PROJECT
EAGLE DR/COUNTRY CLUB DR
PLAN AND PROFILE
STA 103+00 TO STA 107+50



- NOTES:
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RENEW SERVICES AT	
STA	ADDRESS
108+49	12925 EAGLE DR
108+54	12924 EAGLE DR
108+55	12973 N OVENELL LN
109+52.5	12904 EAGLE DR
109+62	12913 EAGLE DR
109+86	12897 EAGLE DR



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3.	ISSUED FOR BIDDING	MCH	10/31/23



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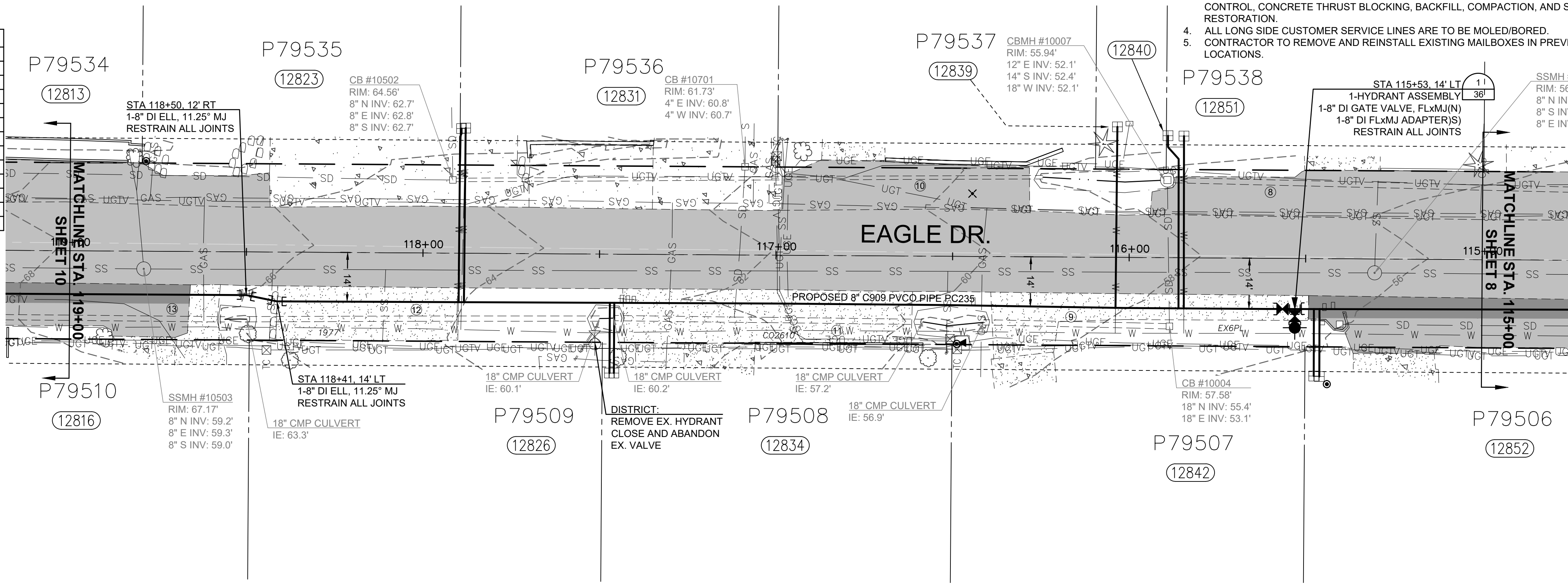
SKAGIT COUNTRY CLUB PIPELINE
REPLACEMENT PROJECT

EAGLE DR
PLAN AND PROFILE
STA 107+50 TO STA 111+00

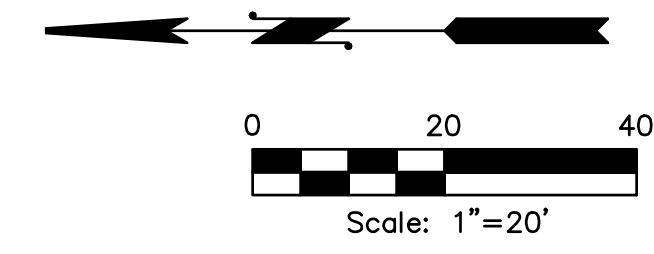
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P.N. 03737	SHEET: 7 OF 37
C.O. 5018	

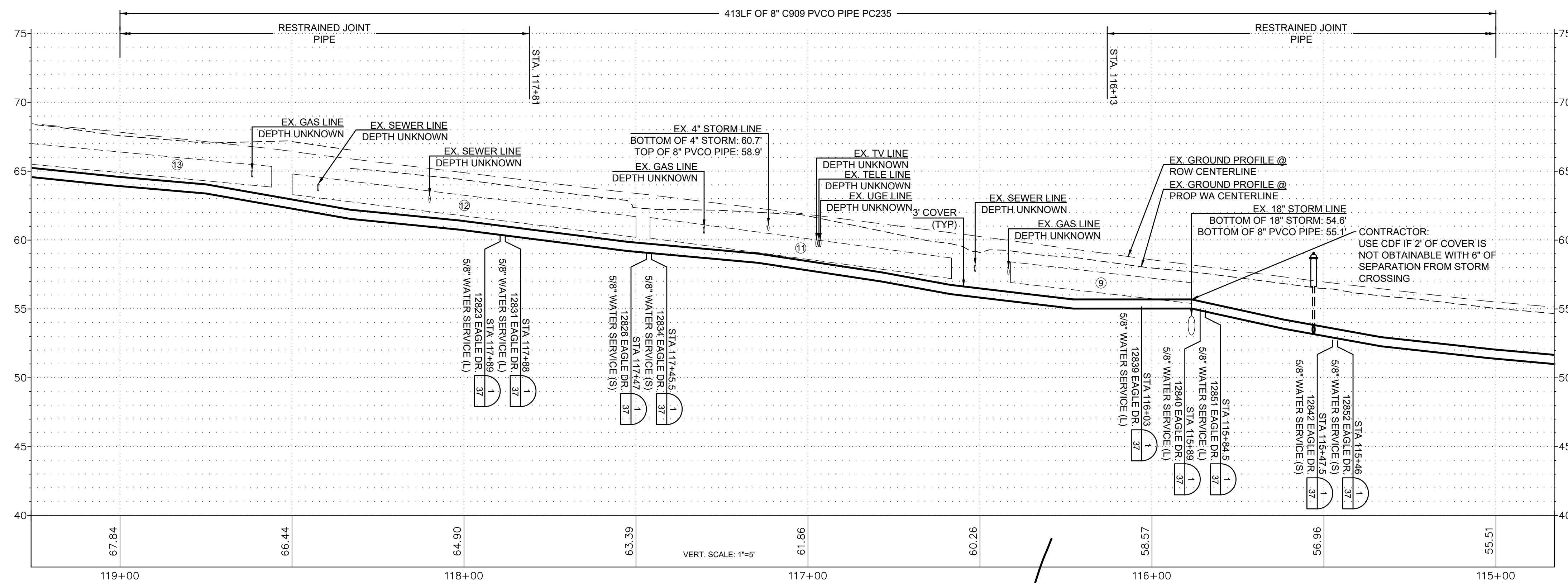
STORM CULVERT INVERTS					
NO.	STA	OFFSET	SIZE	TYPE	I.E.
8	114+49.5	19.5' LT	18" S	CONC	52.2'
	115+89	22' LT	18" N	CONC	52.4'
9	115+88.5	19' LT	18" S	CMP	55.4'
	116+41	18.5' LT	18" N	CMP	56.9'
10	116+24.5	22.5' RT	8" S	CMP	57.2'
	117+91.5	20' RT	8" N	CMP	62.7'
11	116+58	18.5' LT	18" S	CMP	57.4'
	117+46	18' LT	18" N	CMP	60.2'
12	117+50	18' LT	18" S	CMP	60.1'
	118+50	19' LT	18" N	CMP	63.3'
13	118+56	19' LT	18" S	CMP	63.9'
	120+35	18.5' LT	18" N	CMP	68.1'



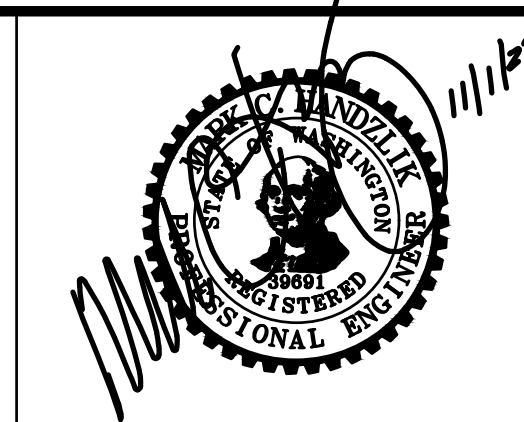
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RENEW SERVICES AT	
STA	ADDRESS
115+46	12852 EAGLE DR
115+47.5	12842 EAGLE DR
115+84.5	12851 EAGLE DR
115+89	12840 EAGLE DR
116+03	12839 EAGLE DR
117+45.5	12834 EAGLE DR
117+47	12826 EAGLE DR
117+88	12831 EAGLE DR
117+89	12823 EAGLE DR



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SKAGIT COUNTRY CLUB PIPELINE
REPLACEMENT PROJECT

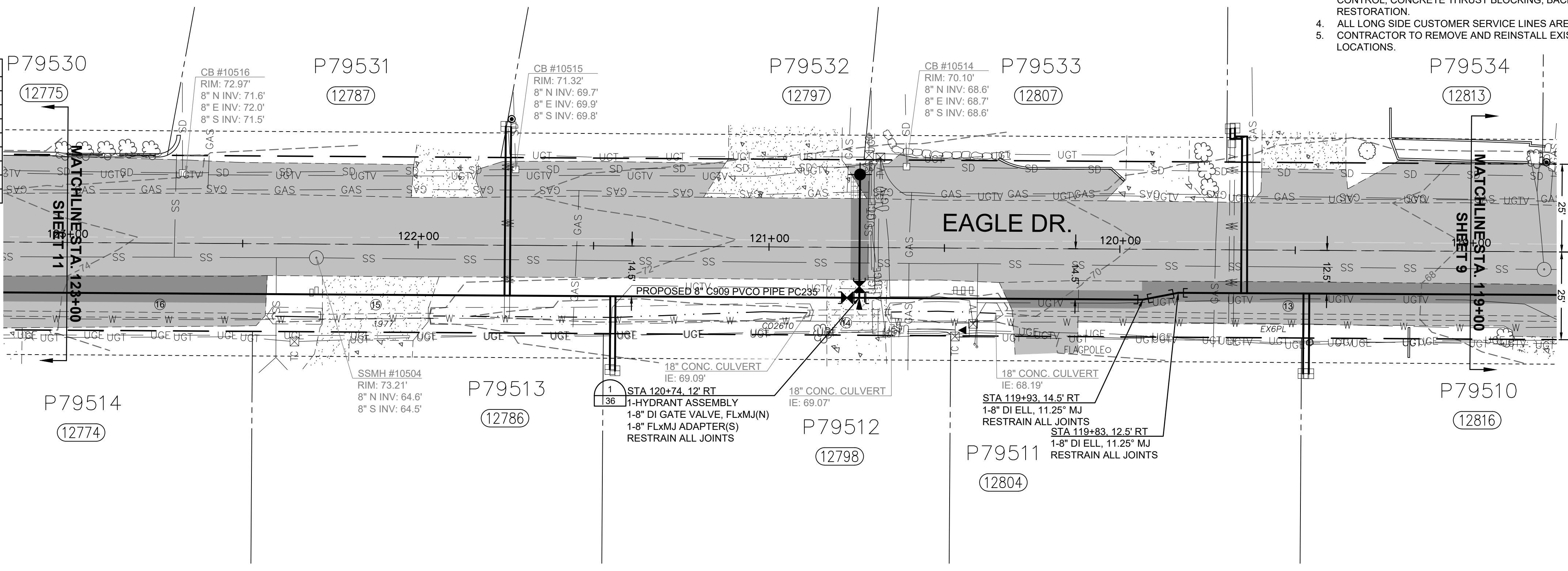
EAGLE DR
PLAN AND PROFILE
STA 115+00 TO STA 119+00

SCALE: 1"=20'

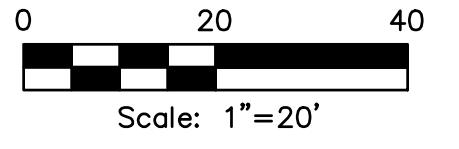
P.N. 03737
C.O. 5018

SHEET:
9 OF 37

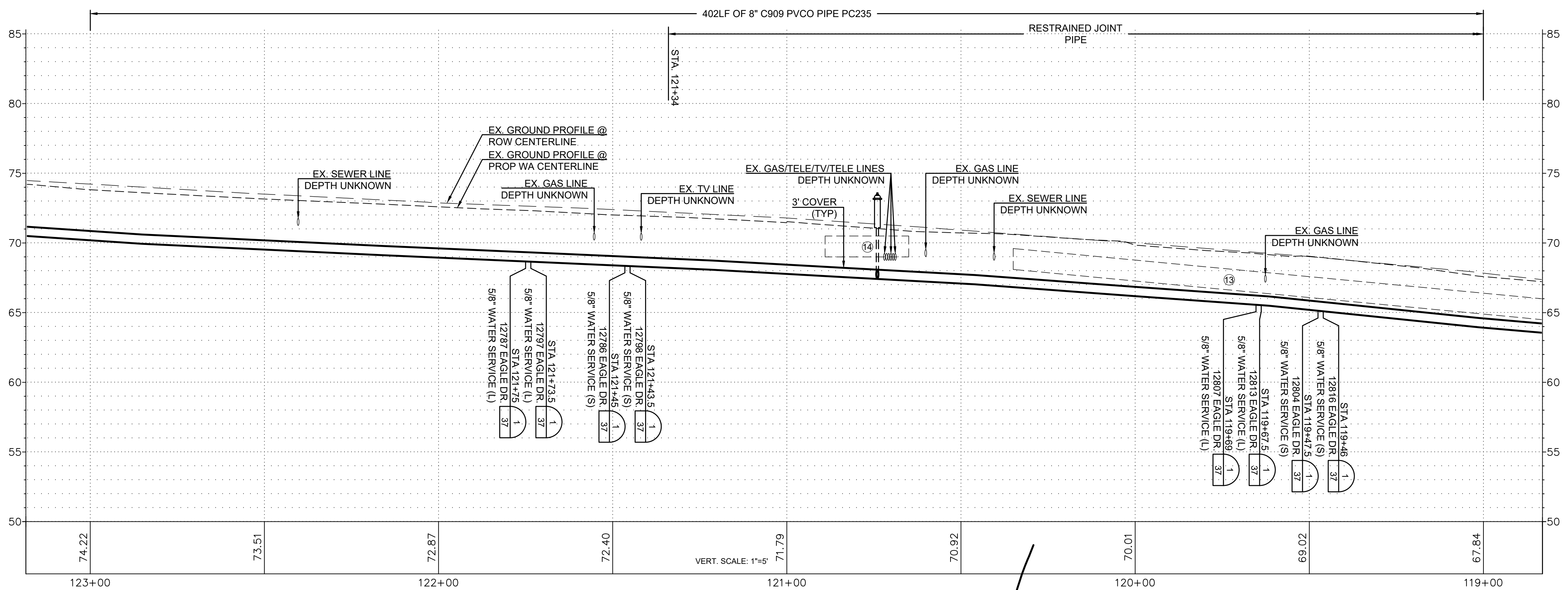
STORM CULVERT INVERTS					
NO.	STA	OFFSET	SIZE	TYPE	I.E.
13	118+56	19' LT	18" S	CMP	63.9'
	120+35	18.5' LT	18" N	CMP	68.1'
14	120+65	18' LT	18" S	CMP	69'
	120+89	18.5' LT	18" N	CMP	69'
15	121+95.5	20' LT	18" S	CONC	70.5'
	122+28	20.5' LT	18" N	CONC	70.9'
16	122+40.5	20.5' LT	18" S	CONC	71.2'
	123+40	20' LT	18" N	CONC	74.6'



- NOTES:
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 - CONTRACTOR TO REMOVE AND REINSTALL EXISTING MAILBOXES IN PREVIOUS LOCATIONS.



RENEW SERVICES AT	
STA	ADDRESS
119+46	12816 EAGLE DR
119+47.5	12804 EAGLE DR
119+67.5	12813 EAGLE DR
119+69	12807 EAGLE DR
121+43.5	12798 EAGLE DR
121+45	12786 EAGLE DR
121+73.5	12797 EAGLE DR
121+75	12787 EAGLE DR



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3.	ISSUED FOR BIDDING	MCH	10/31/23



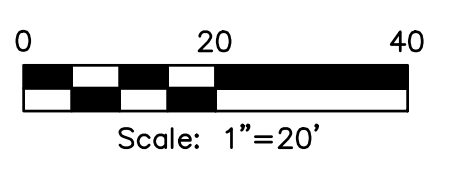
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DATE PRINTED: 10/31/23	SEC: 2 TWP: 34 N RGE: 3 E



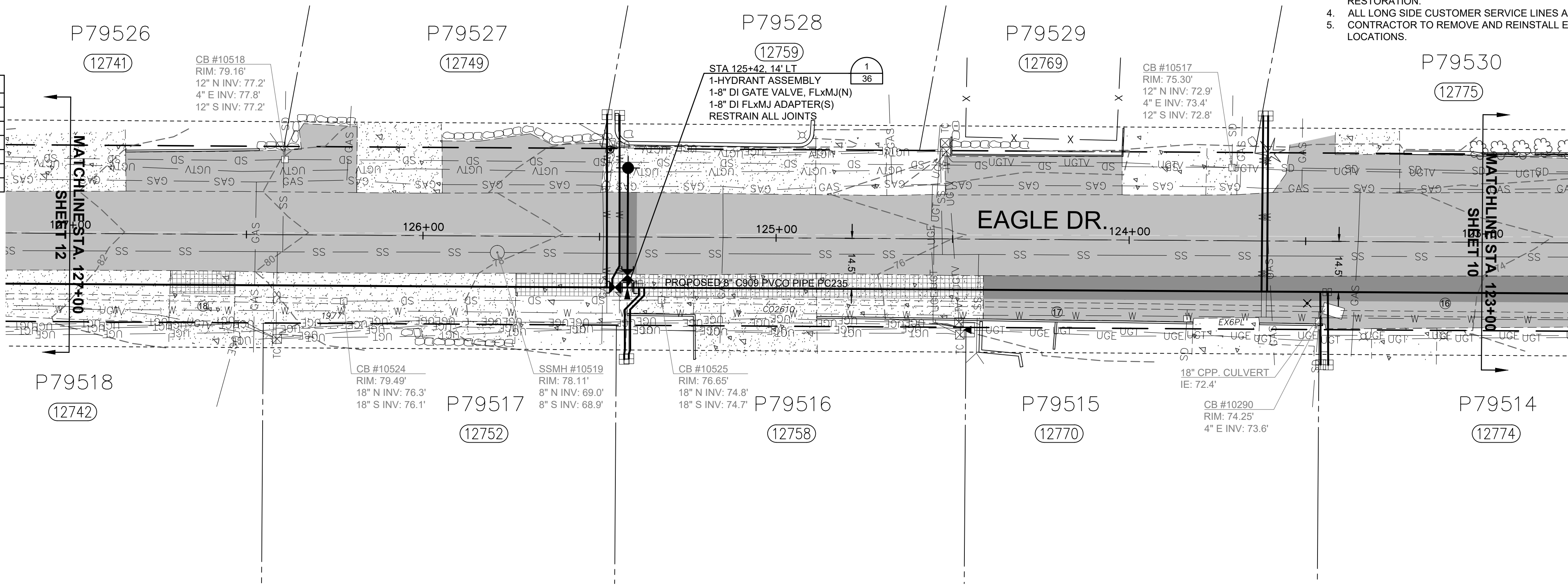
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SKAGIT COUNTRY CLUB PIPELINE
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EAGLE DR
PLAN AND PROFILE
STA 119+00 TO STA 123+00
SCALE: 1"=20'
P.N. 03737
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SHEET:
10 OF 37

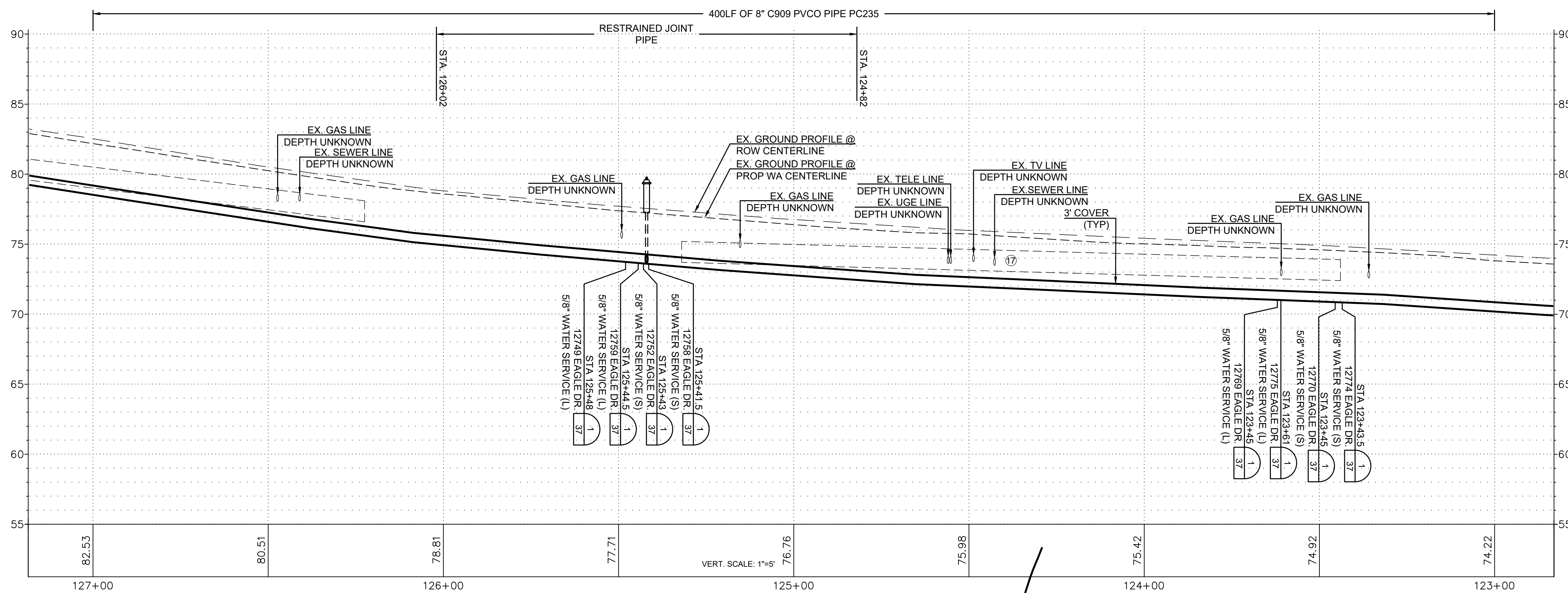
- NOTES:
1. CONTRACTOR TO EXPOSE EX. METER SETTERS FOR DISTRICT CONNECTIONS.
 2. CONTRACTOR TO POT HOLE EX. TO ESTABLISH LINE AND GRADE FOR CONNECTIONS
 3. CONTRACTOR RESPONSIBLE FOR ALL EXCAVATION, SHORING, DEWATERING, TRAFFIC CONTROL, CONCRETE THRUST BLOCKING, BACKFILL, COMPACTION, AND SURFACE RESTORATION.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




STORM CULVERT INVERTS					
NO.	STA	OFFSET	SIZE	TYPE	I.E.
16	122+40.5	20.5' LT	18" S	CONC	71.2'
17	123+40	20' LT	18" N	CONC	74.6'
17	123+44	19' LT	18" S	CPP	72.4'
18	125+32	17.5' LT	18" N	CPP	74.7'
18	126+22.5	18.5' LT	18" S	CPP	76.6'
18	130+89.5	18.5' LT	18" N	CPP	91.1'




RENEW SERVICES AT	
STA	ADDRESS
123+43.5	12774 EAGLE DR
123+45.5	12770 EAGLE DR
123+61	12775 EAGLE DR
123+62	12769 EAGLE DR
125+41.5	12758 EAGLE DR
125+43	12752 EAGLE DR
125+44.5	12759 EAGLE DR
125+48	12749 EAGLE DR




ISSUE	REVISIONS	BY	DATE
1.	60% DESIGN	MCH	5/1/23
2.	90% DESIGN	MCH	7/19/23
3.	ISSUED FOR BIDDING	MCH	10/31/23





DATUM: DSGN BY: CAS
 HOR: NAD 83 DWN BY: JLB
 VERT: NAVD 88 APPVD BY: MCH

DATE PRINTED: 10/31/23 SEC: 2
 TWP: 34 N
 RGE: 3 E



Skagit PUD
PUBLIC UTILITY DISTRICT

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

SKAGIT COUNTRY CLUB PIPELINE REPLACEMENT PROJECT

EAGLE DR
 PLAN AND PROFILE
 STA 123+00 TO STA 127+00

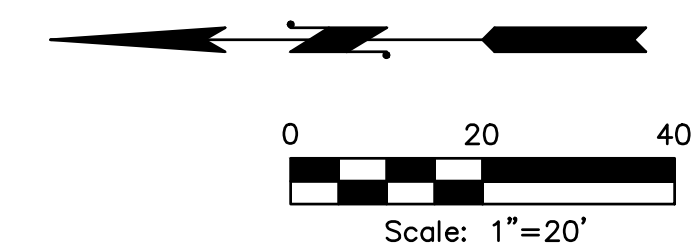
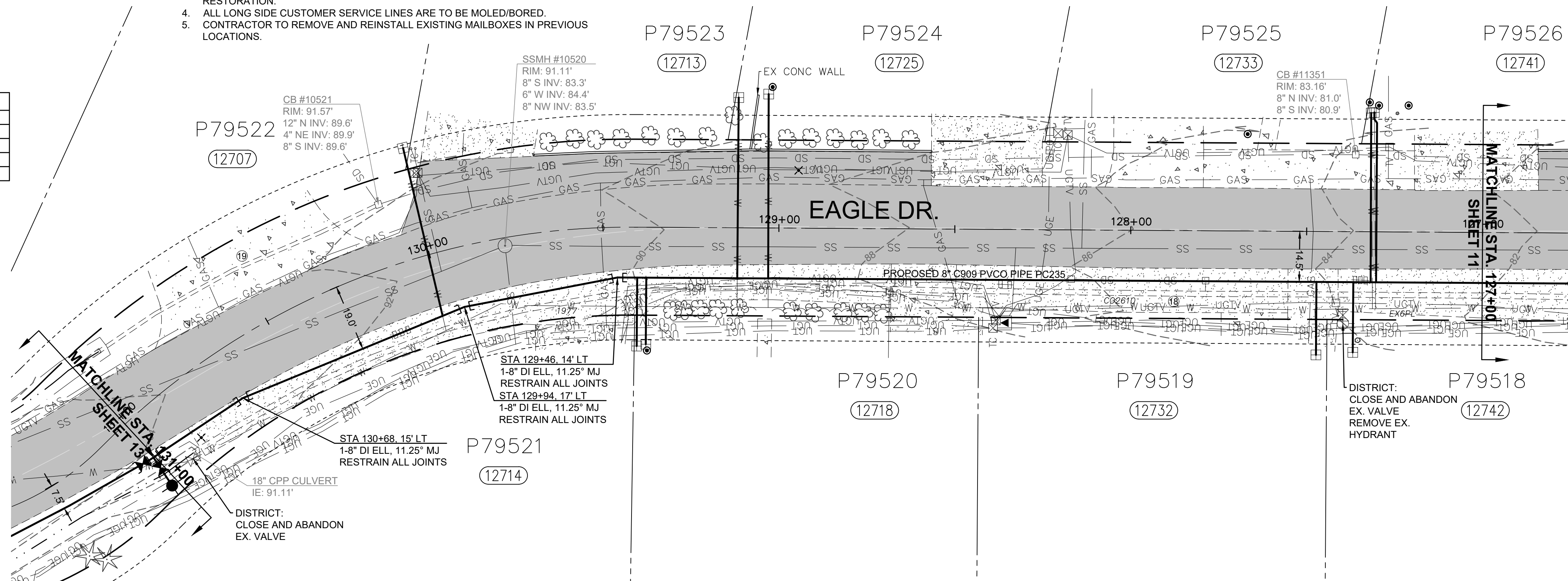
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P.N. 03737
C.O. 5018

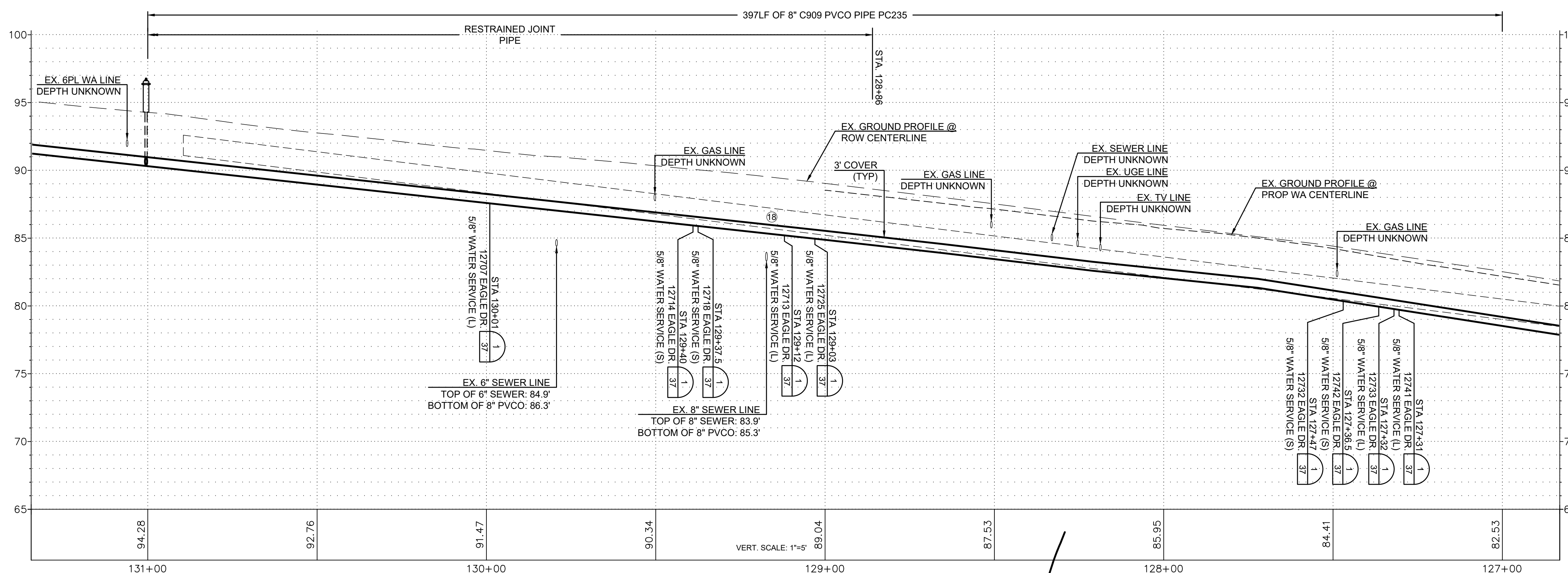
SHEET:
11 OF 37

- NOTES:
1. CONTRACTOR TO EXPOSE EX. METER SETTERS FOR DISTRICT CONNECTIONS.
 2. CONTRACTOR TO POT HOLE EX. TO ESTABLISH LINE AND GRADE FOR CONNECTIONS
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STORM CULVERT INVERTS					
NO.	STA	OFFSET	SIZE	TYPE	I.E.
18	126+22.5	18.5' LT	18" S	CPP	76.6'
	130+89.5	18.5' LT	18" N	CPP	91.1'
19	130+10	17.5' RT	12" N	CMP	89.6'
	130+92.5	20' RT	12" SE	CMP	91.6'



RENEW SERVICES AT	
STA	ADDRESS
127+31	12741 EAGLE DR
127+32	12733 EAGLE DR
127+36.5	12742 EAGLE DR
127+47	12732 EAGLE DR
129+03	12725 EAGLE DR
129+12	12713 EAGLE DR
129+37.5	12718 EAGLE DR
129+40	12714 EAGLE DR
129+99	12707 EAGLE DR



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DATUM: HOR: NAD 83 VERT: NAVD 88	DSGN BY: CAS DWN BY: JLB APPVD BY: MCH
DATE PRINTED: 10/31/23	SEC: 2 TWP: 34 N RGE: 3 E

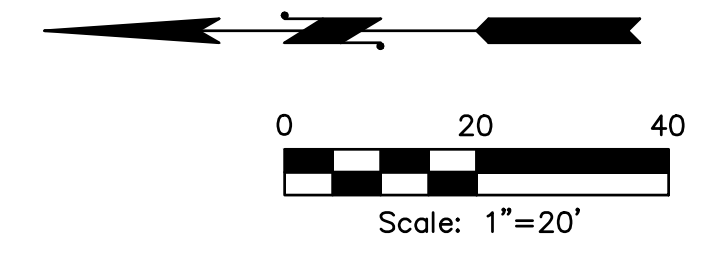


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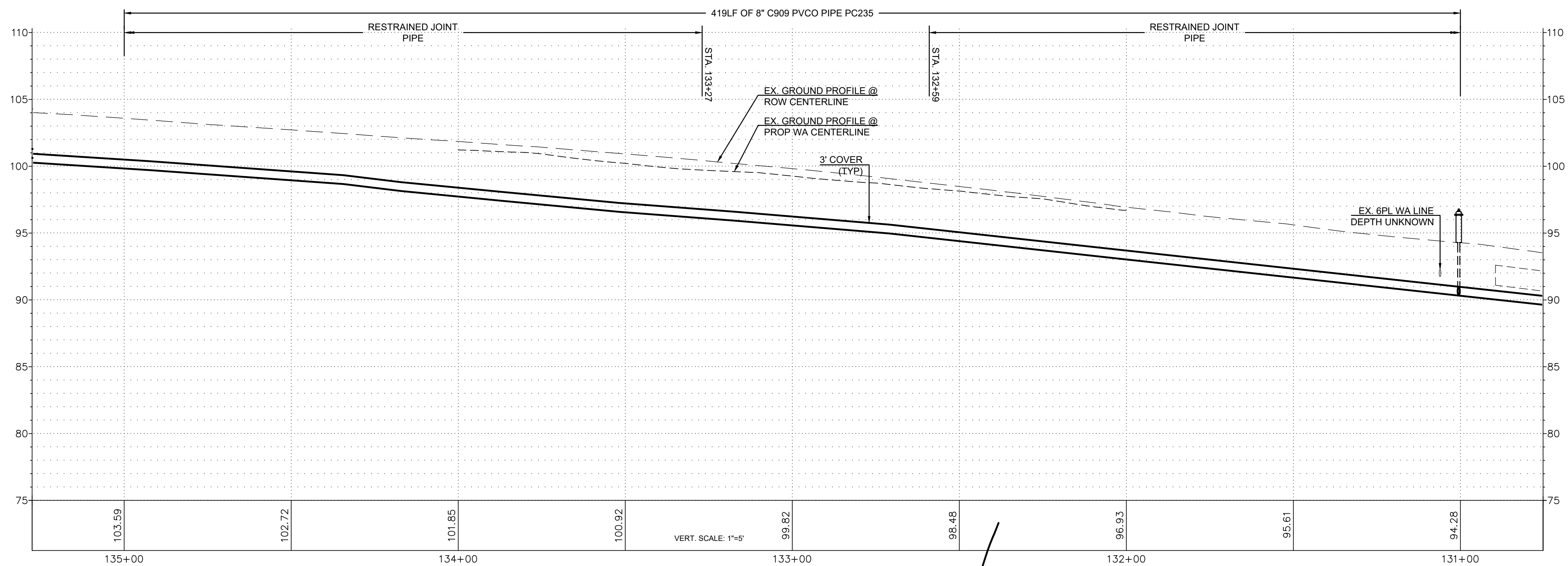
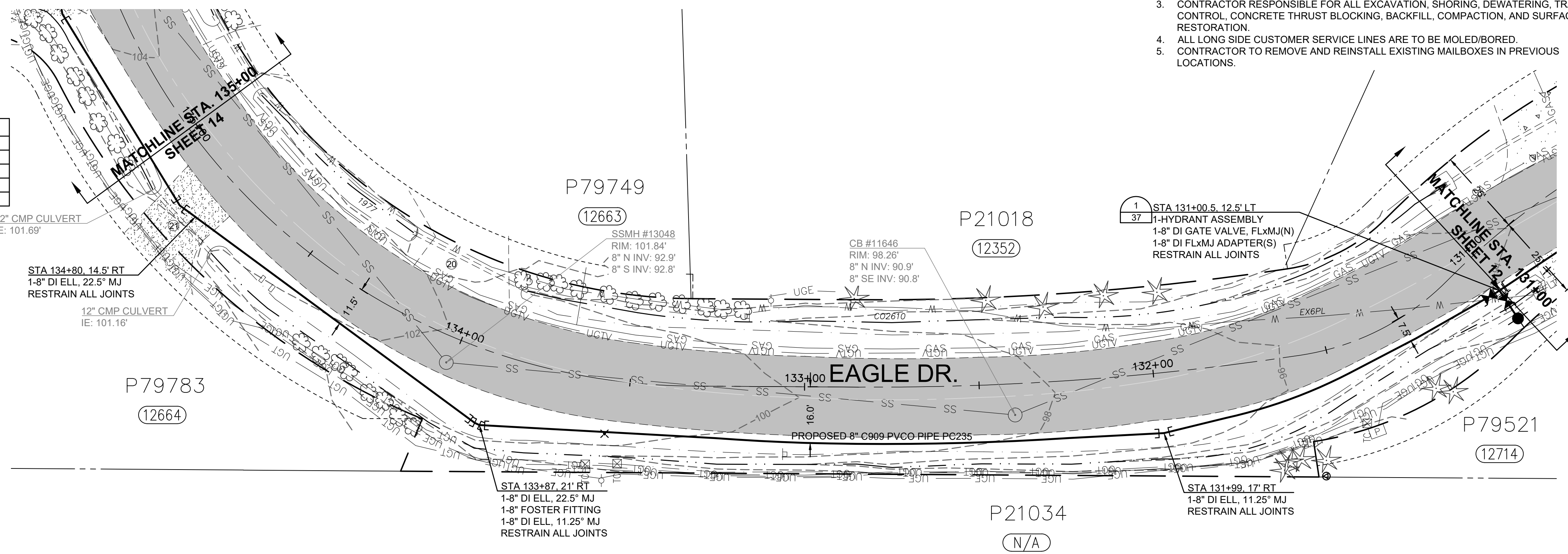
SKAGIT COUNTRY CLUB PIPELINE
REPLACEMENT PROJECT
EAGLE DR
PLAN AND PROFILE
STA 127+00 TO STA 131+00

SCALE: 1"=20'	P.N. 03737 C.O. 5018	SHEET: 12 OF 37
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- NOTES:
1. CONTRACTOR TO EXPOSE EX. METER SETTERS 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.
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STORM CULVERT INVERTS					
NO.	STA	OFFSET	SIZE	TYPE	I.E.
20	133+86	19.5' RT	12" SW	CMP	99.8'
	134+27.5	21.5' RT	12" NE	CMP	100.3'
21	134+70.5	18.5' LT	12" SW	CMP	101.1'
	134+92.5	18.5' LT	12" NE	CMP	101.6'



ISSUE	REVISIONS	BY	DATE
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DATUM:
HOR: NAD 83
VERT: NAVD 88

DSGN BY: CAS
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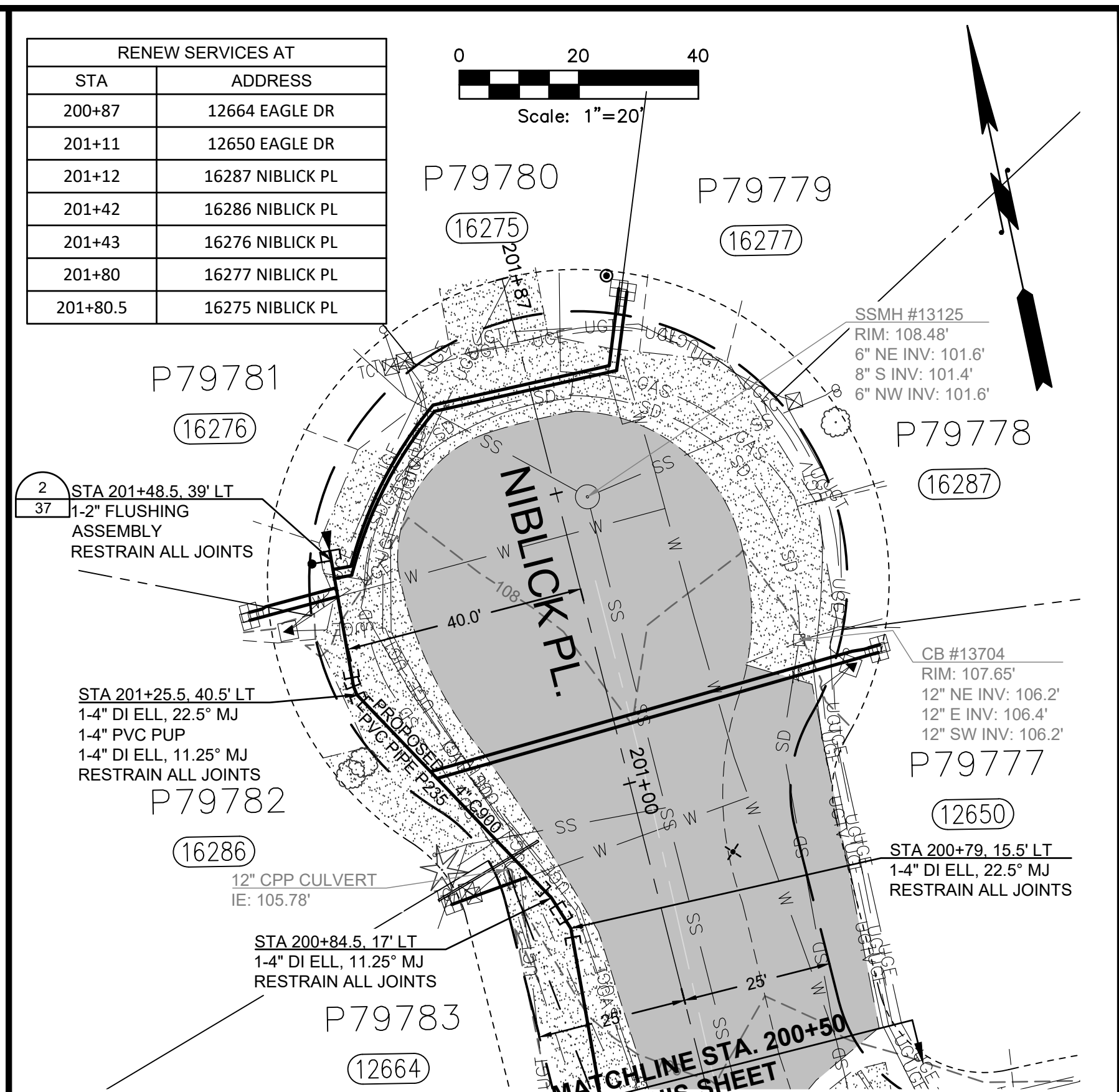
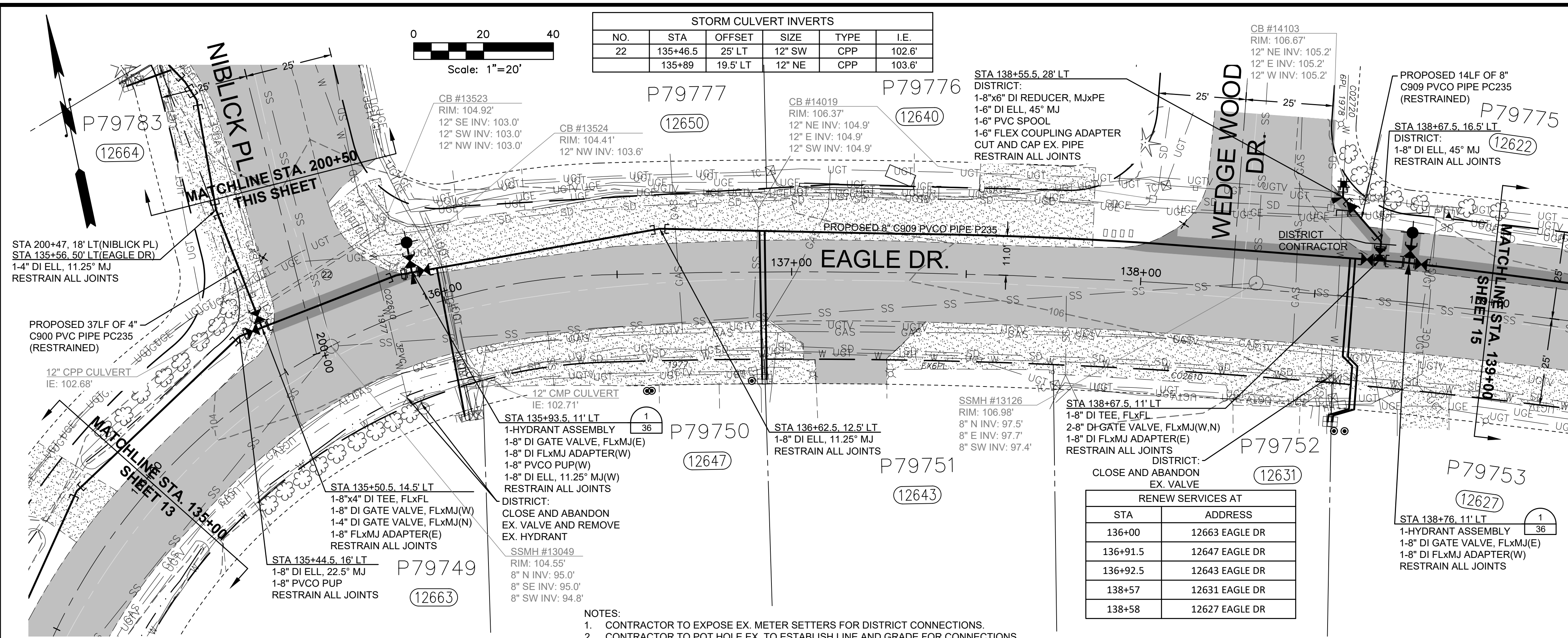
SKAGIT COUNTRY CLUB PIPELINE
REPLACEMENT PROJECT

EAGLE DR
PLAN AND PROFILE
STA 131+00 TO STA 135+00

SCALE: 1"=20'

P.N. 03737
C.O. 5018

SHEET:
13 OF 37



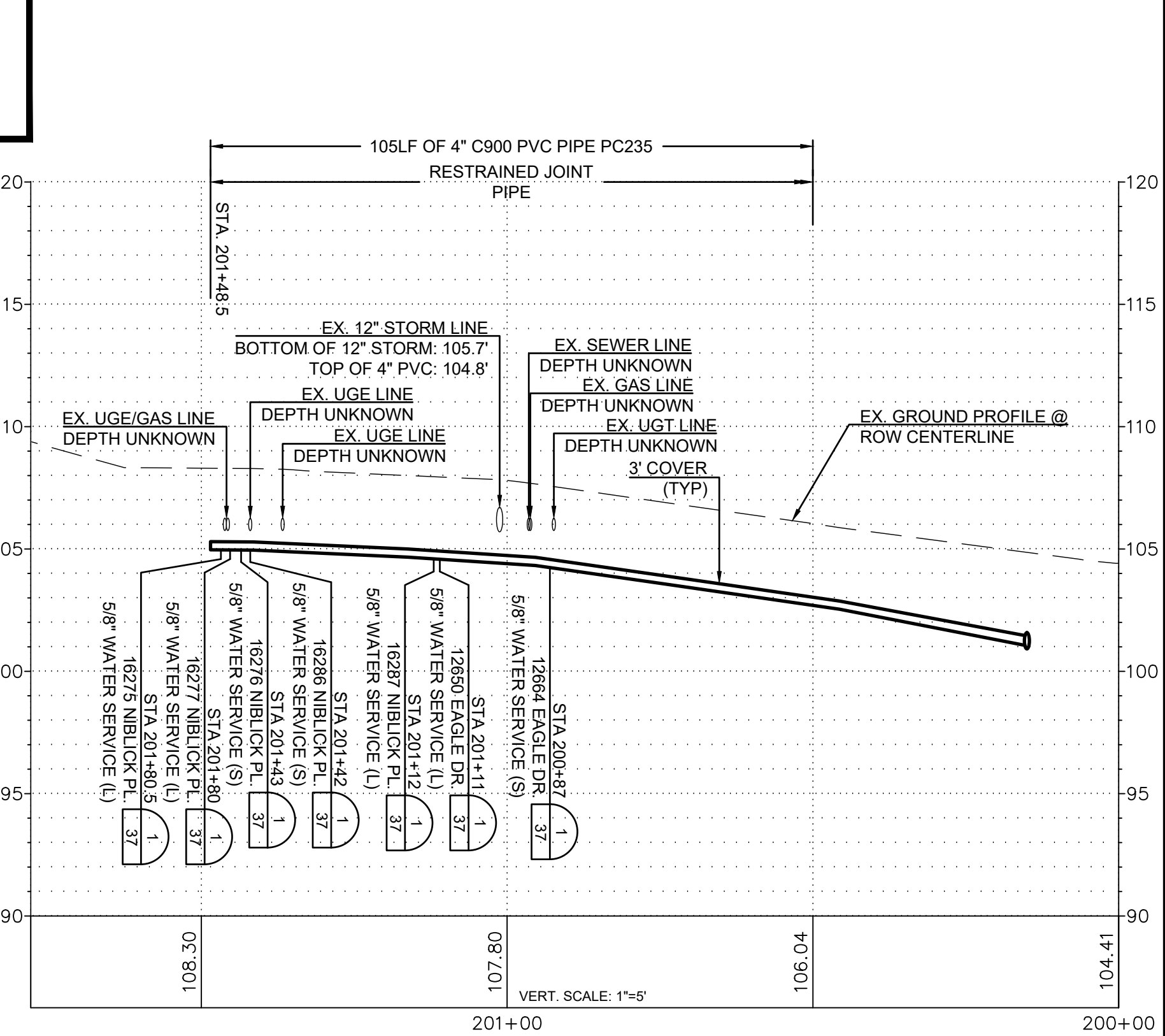
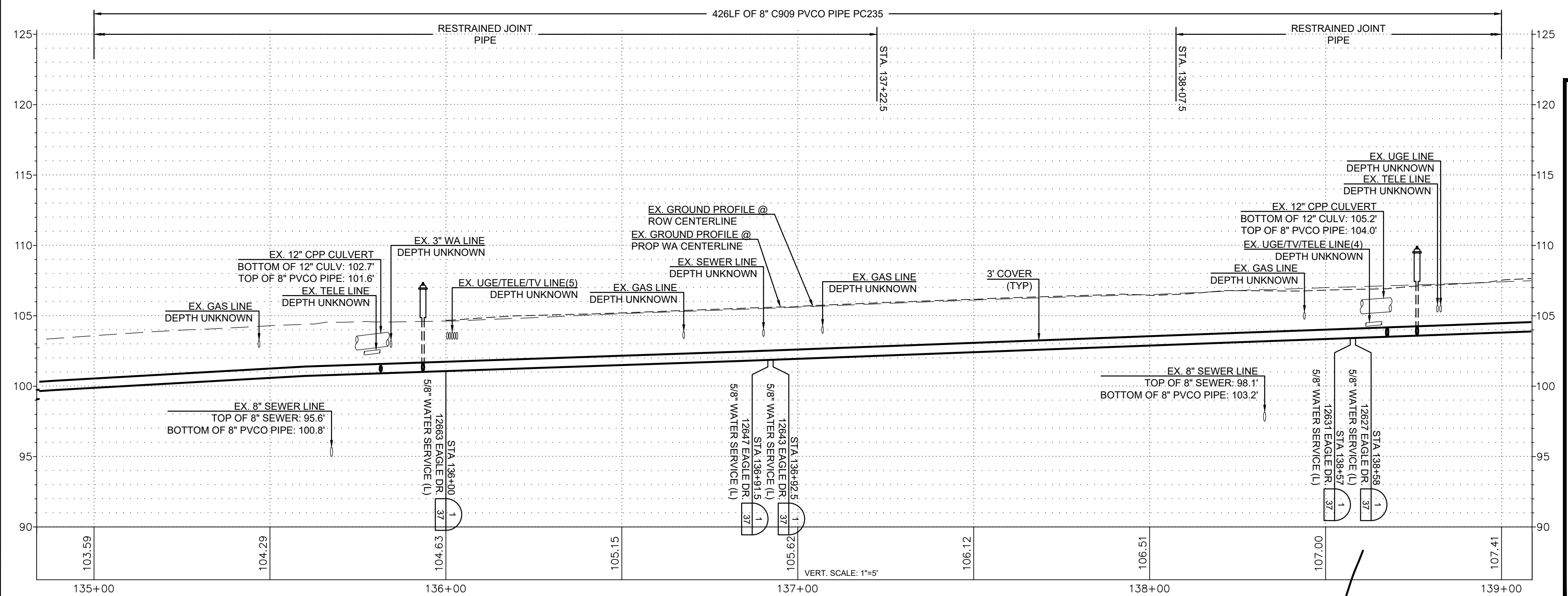
STORM CULVERT INVERTS

NO.	STA	OFFSET	SIZE	TYPE	I.E.
22	135+46.5	25' LT	12" SW	CPP	102.6'
	135+89	19.5' LT	12" NE	CPP	103.6'

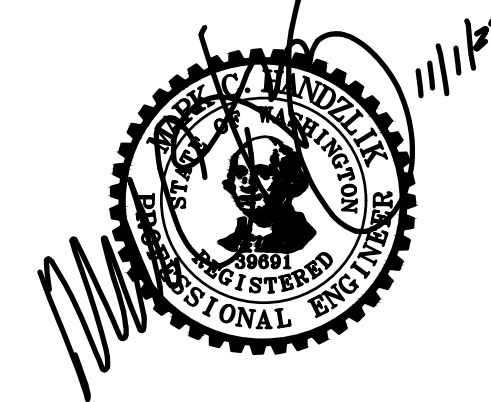
RENEW SERVICES AT

STA	ADDRESS
136+00	12663 EAGLE DR
136+91.5	12647 EAGLE DR
136+92.5	12643 EAGLE DR
138+57	12631 EAGLE DR
138+58	12627 EAGLE DR

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DATUM:
HOR: NAD 83
VERT: NAVD 88

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

DATE PRINTED: 10/31/23
SEC: 2
TWP: 34 N
RGE: 3 E



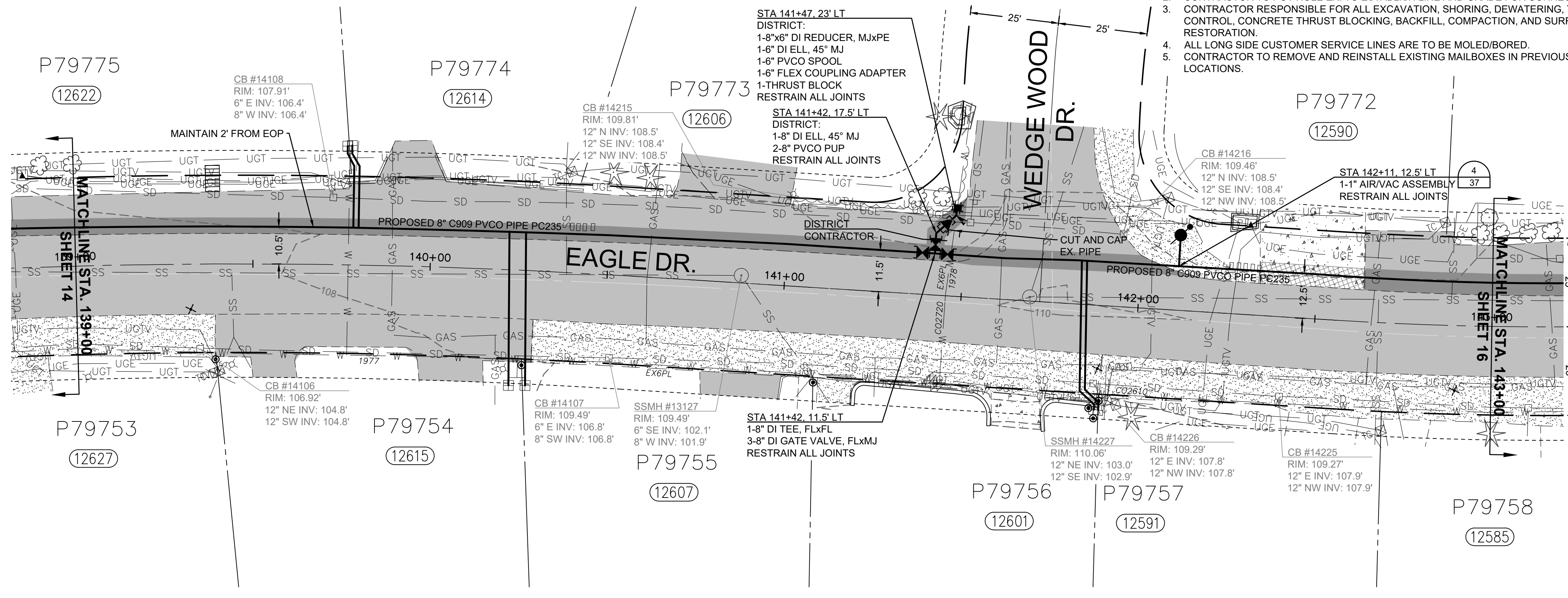
PUBLIC UTILITY DISTRICT
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SKAGIT COUNTRY CLUB PIPELINE
REPLACEMENT PROJECT

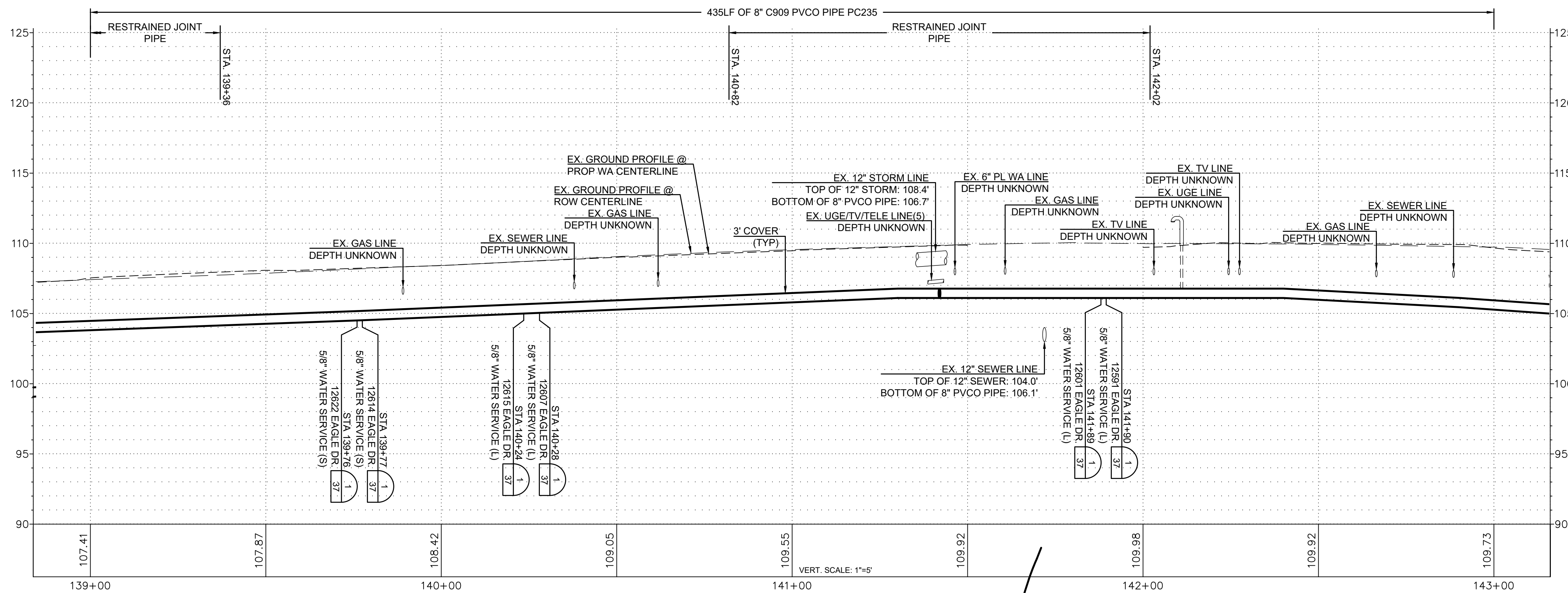
EAGLE DR/NIBLICK PL
PLAN AND PROFILE
STA 135+00 TO STA 139+00/
STA 200+50 TO STA 201+87

SCALE: 1"=20'
P.N. 03737
C.O. 5018
SHEET:
14 OF 37

- NOTES:
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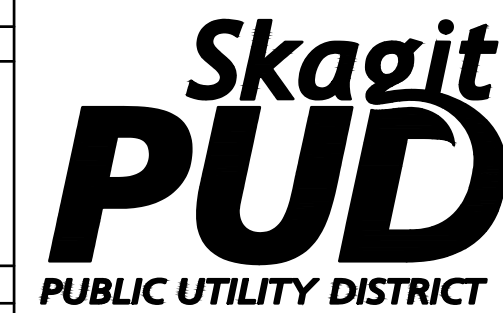
RENEW SERVICES AT	
STA	ADDRESS
139+76	12622 EAGLE DR
139+77.5	12614 EAGLE DR
140+23.5	12615 EAGLE DR
140+28	12607 EAGLE DR
141+89	12601 EAGLE DR
141+90	12591 EAGLE DR



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HOR: NAD 83	DWN BY: JLB
VERT: NAVD 88	APPVD BY: MCH
DATE PRINTED:	SEC: 2
10/31/23	TWP: 34 N
	RGE: 3 E

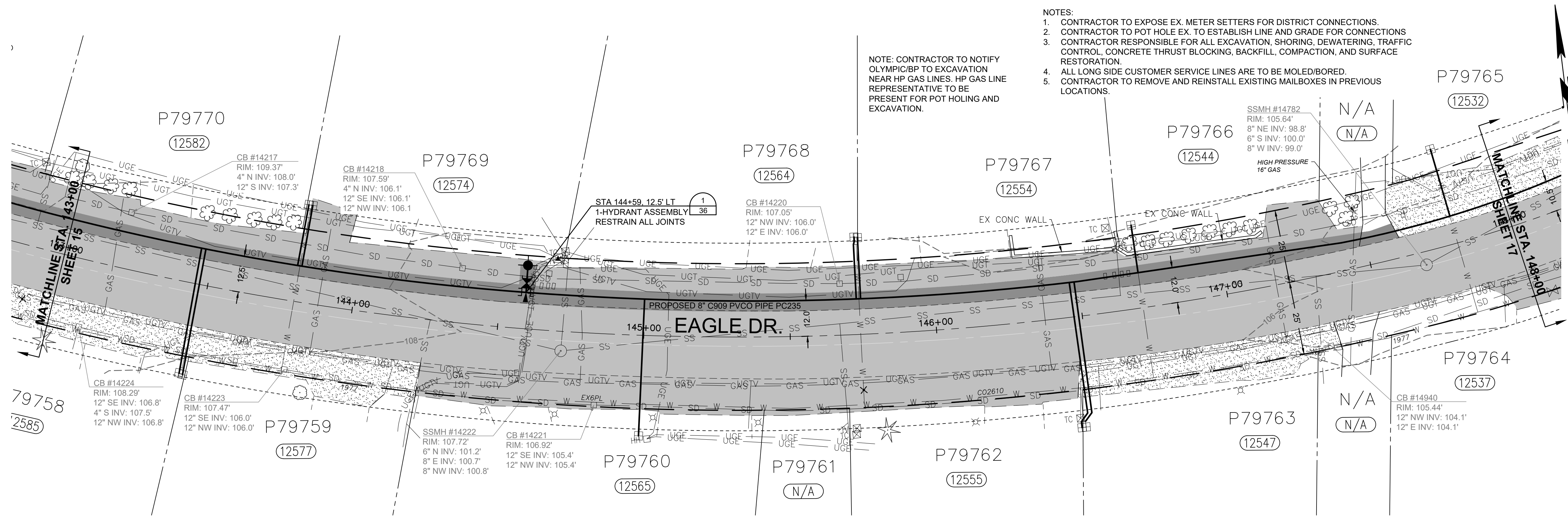
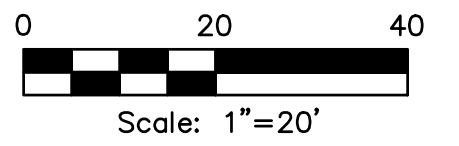


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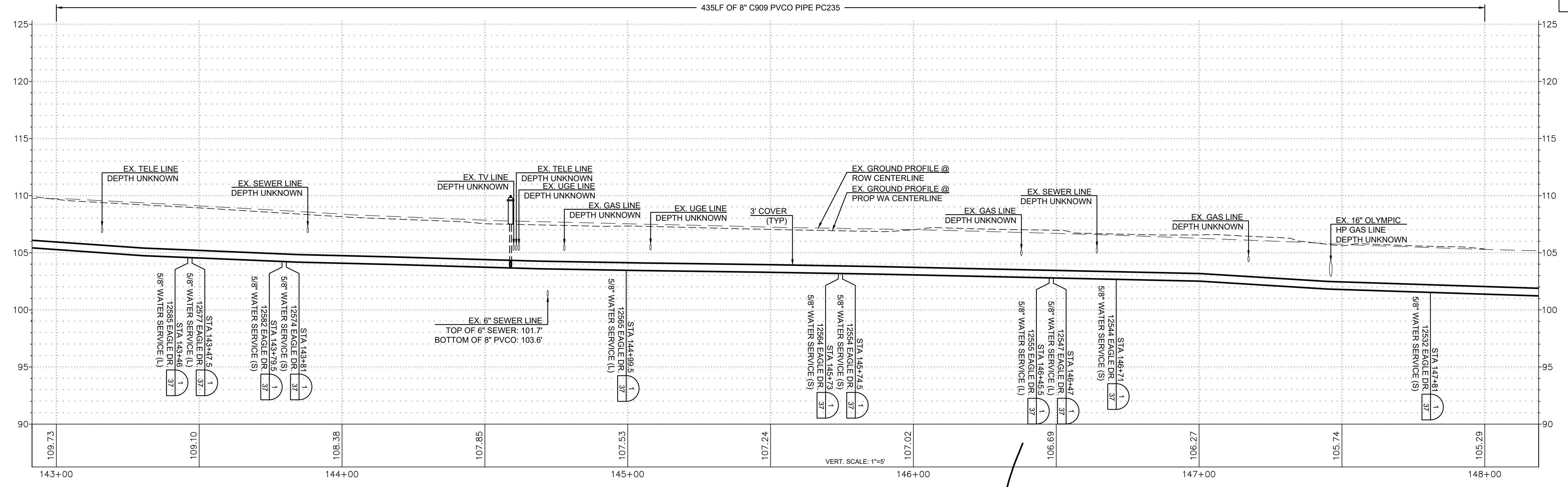
SKAGIT COUNTRY CLUB PIPELINE
REPLACEMENT PROJECT
EAGLE DR
PLAN AND PROFILE
STA 139+00 TO STA 143+00
SCALE: 1"=20'
P.N. 03737
C.O. 5018
SHEET:
15 OF 37

- NOTES:
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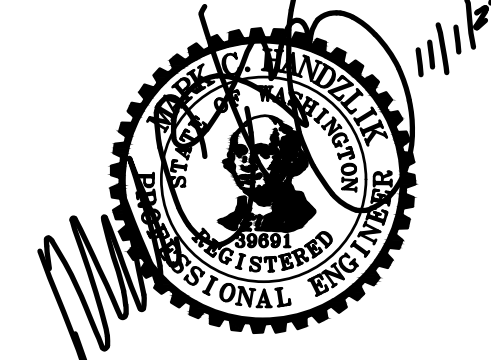
NOTE: CONTRACTOR TO NOTIFY OLYMPIC/BP TO EXCAVATION NEAR HP GAS LINES. HP GAS LINE REPRESENTATIVE TO BE PRESENT FOR POT HOLING AND EXCAVATION.



RENEW SERVICES AT	
STA	ADDRESS
143+46	12585 EAGLE DR
143+47.5	12577 EAGLE DR
143+79.5	12582 EAGLE DR
143+81	12574 EAGLE DR
144+99.5	12565 EAGLE DR
145+73	12564 EAGLE DR
145+74.5	12554 EAGLE DR
146+45.5	12555 EAGLE DR
146+47	12547 EAGLE DR
146+71	12544 EAGLE DR
147+81	12532 EAGLE DR



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DATUM: HOR: NAD 83 VERT: NAVD 88	DSGN BY: CAS DWN BY: JLB APPVD BY: MCH
DATE PRINTED: 10/31/23	SEC: 2 TWP: 34 N RGE: 3 E

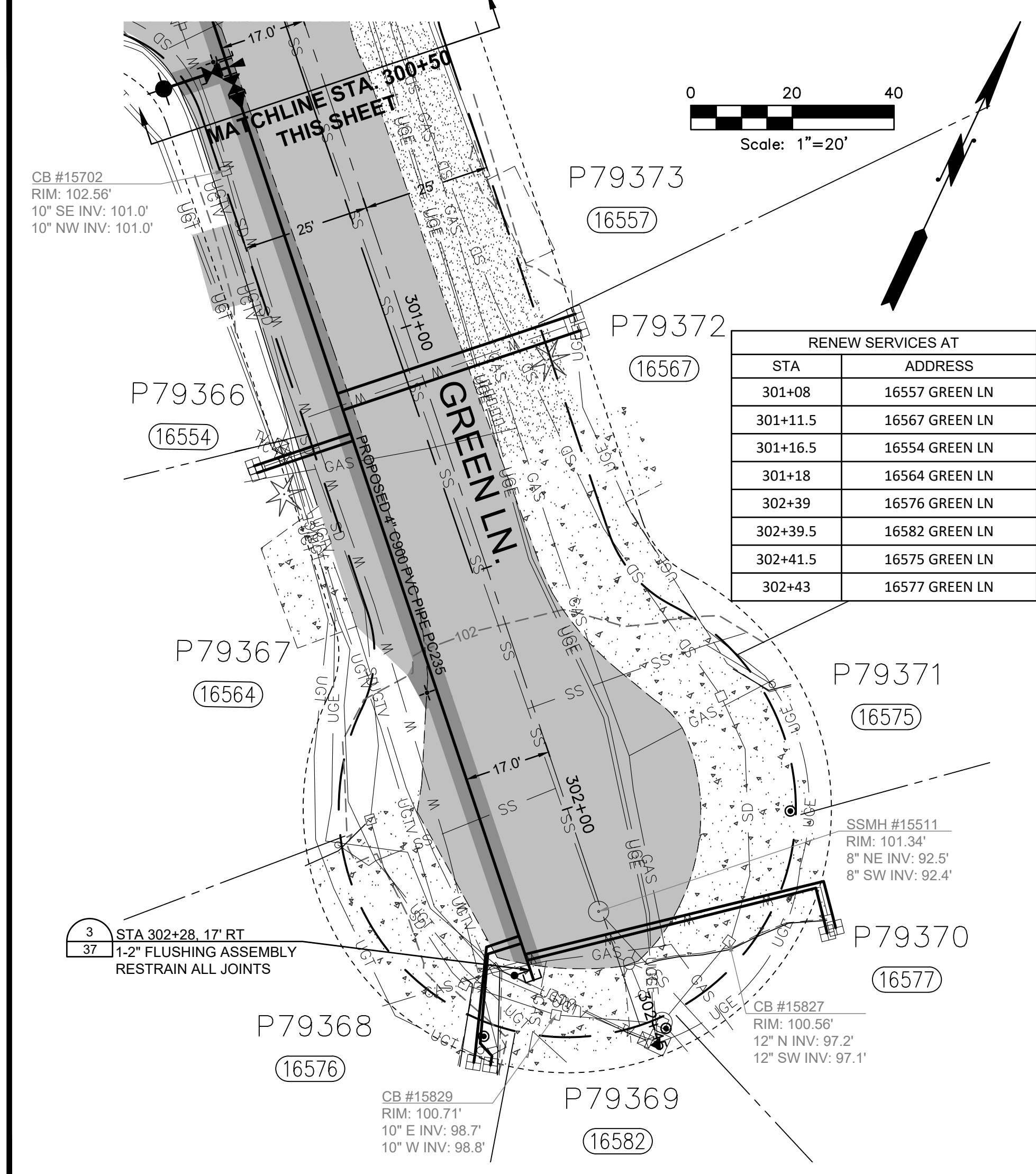
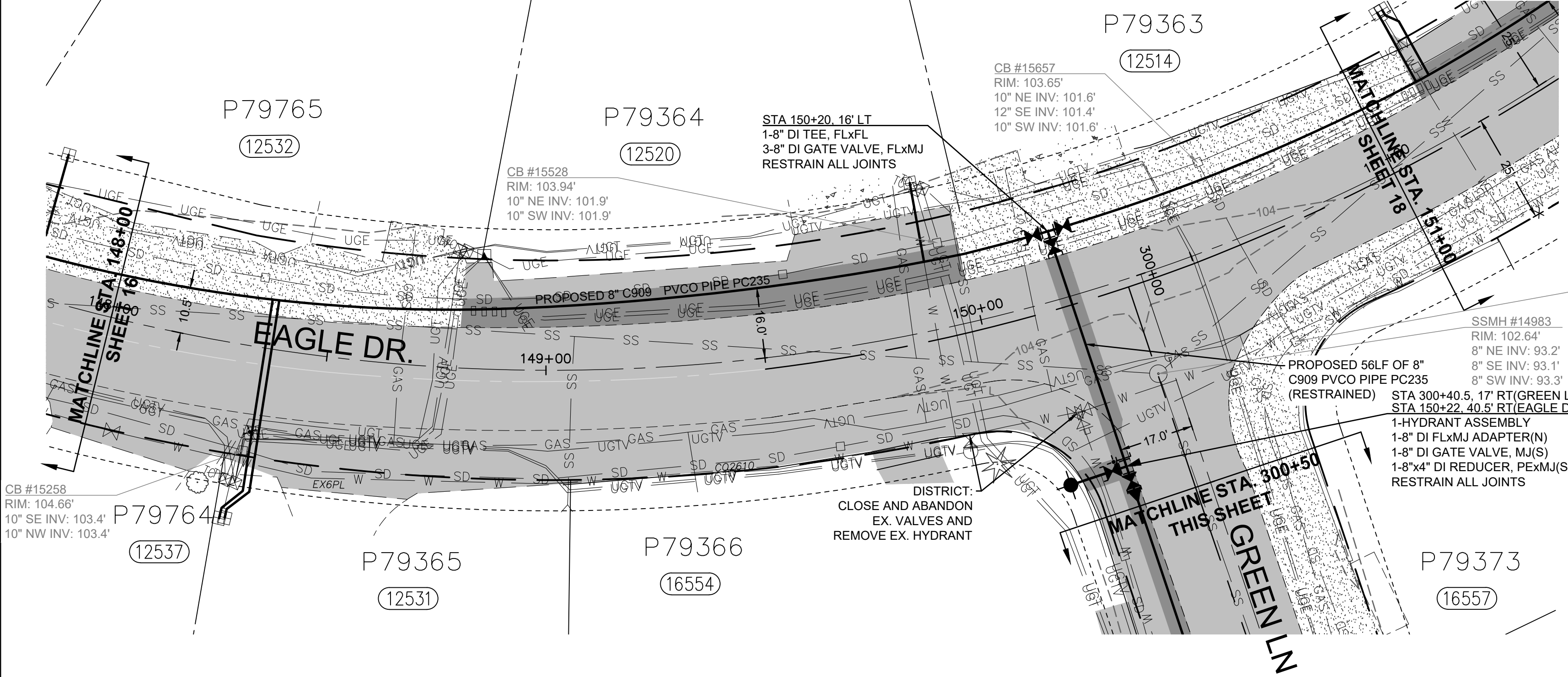


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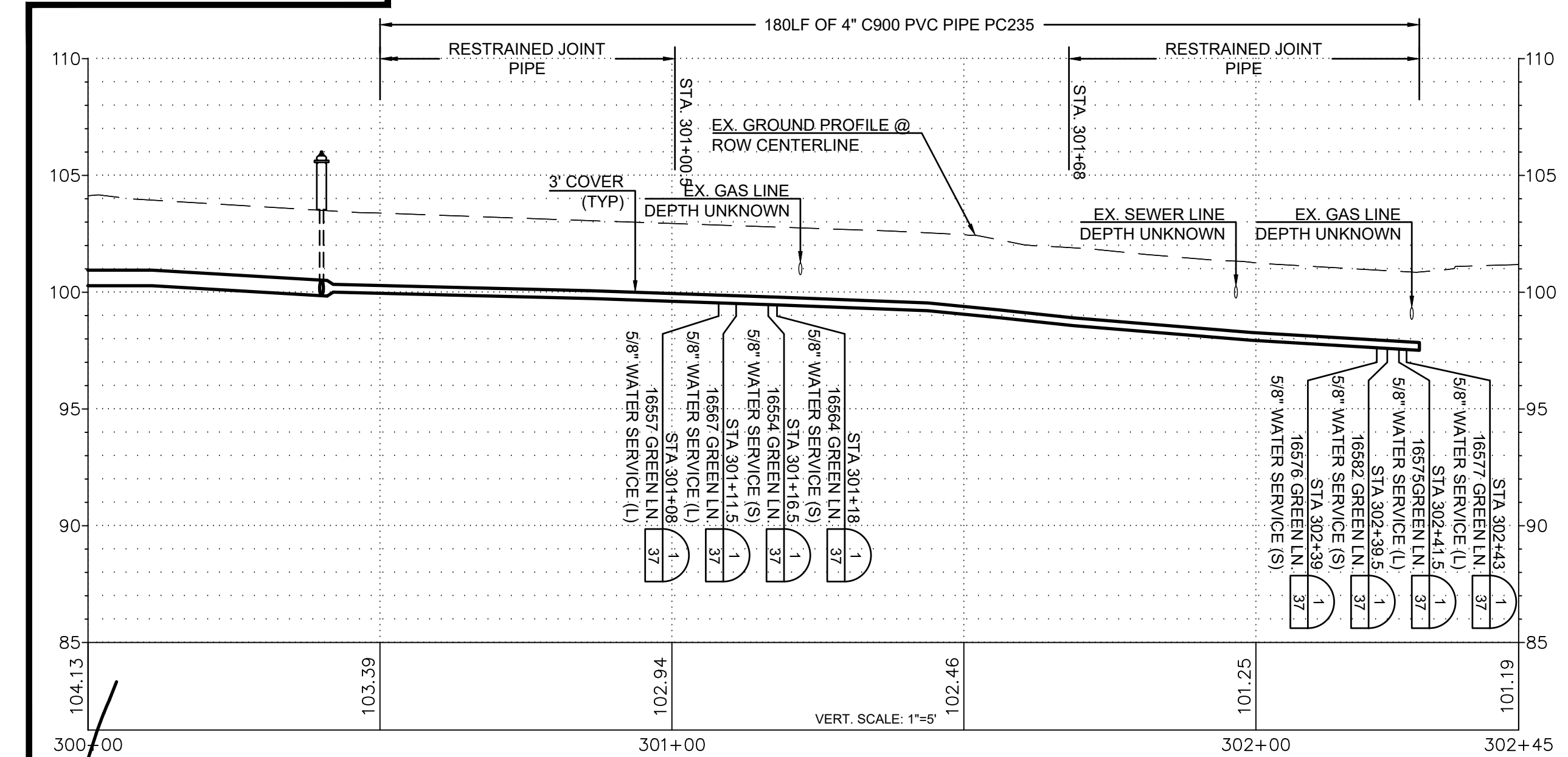
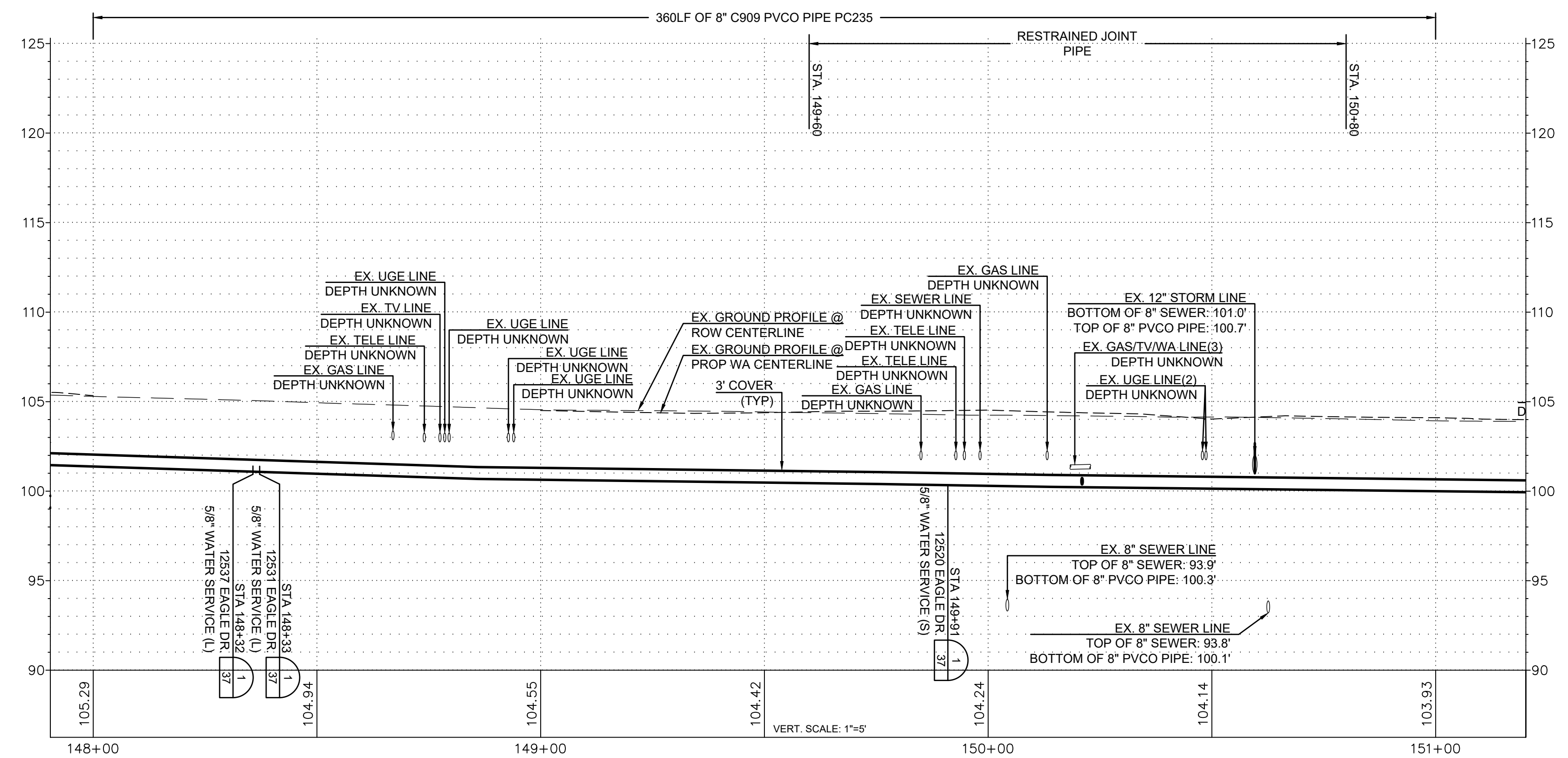
SKAGIT COUNTRY CLUB PIPELINE
REPLACEMENT PROJECT
EAGLE DR
PLAN AND PROFILE
STA 143+00 TO STA 148+00
SCALE: 1"=20'
P.N. 03737
C.O. 5018
SHEET:
16 OF 37

RENEW SERVICES AT	
STA	ADDRESS
148+32	12537 EAGLE DR
148+33	12531 EAGLE DR
149+91	12520 EAGLE DR

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RENEW SERVICES AT	
STA	ADDRESS
301+08	16557 GREEN LN
301+11.5	16567 GREEN LN
301+16.5	16554 GREEN LN
301+18	16564 GREEN LN
302+39	16576 GREEN LN
302+39.5	16582 GREEN LN
302+41.5	16575 GREEN LN
302+43	16577 GREEN LN



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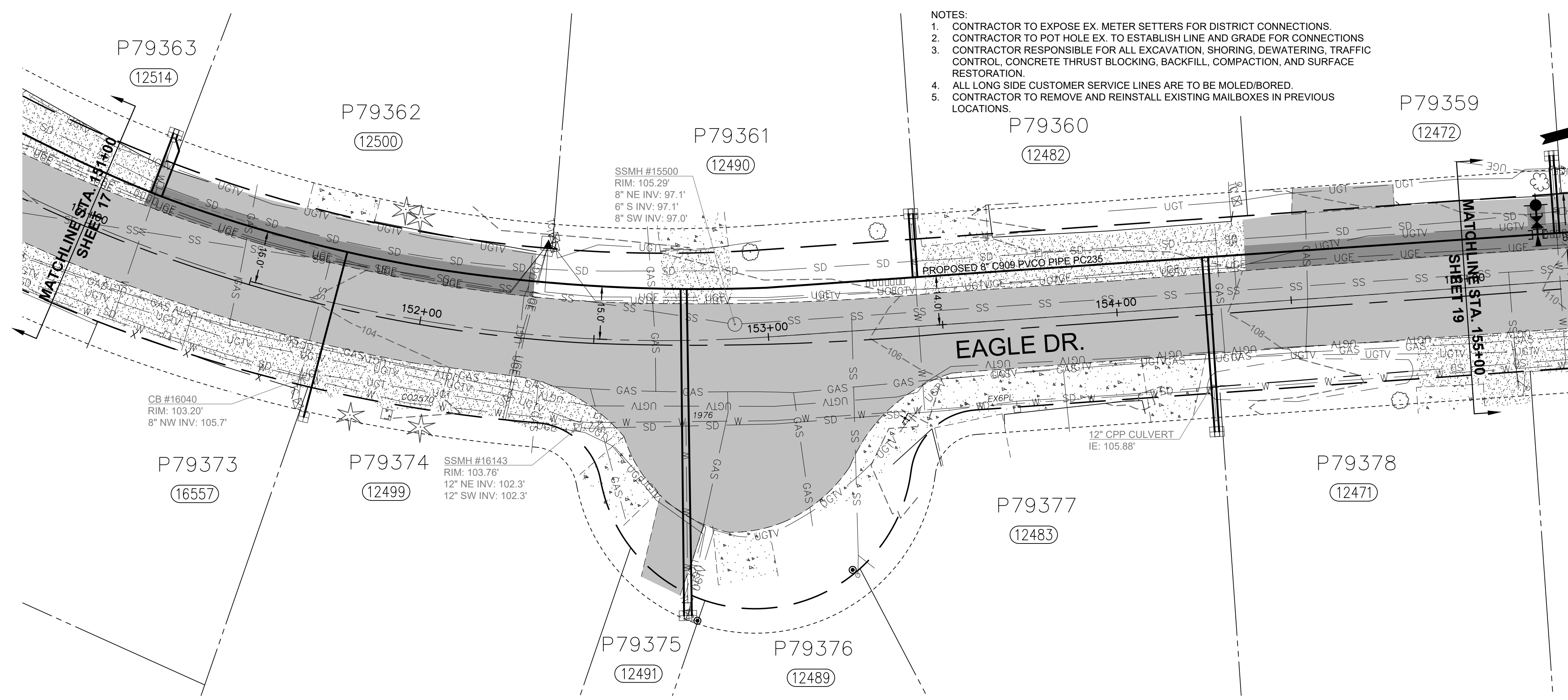


DATUM: HOR: NAD 83 VERT: NAVD 88	DSGN BY: CAS DWN BY: JLB APPVD BY: MCH
DATE PRINTED: 10/31/23	SEC: 2 TWP: 34 N RGE: 3 E



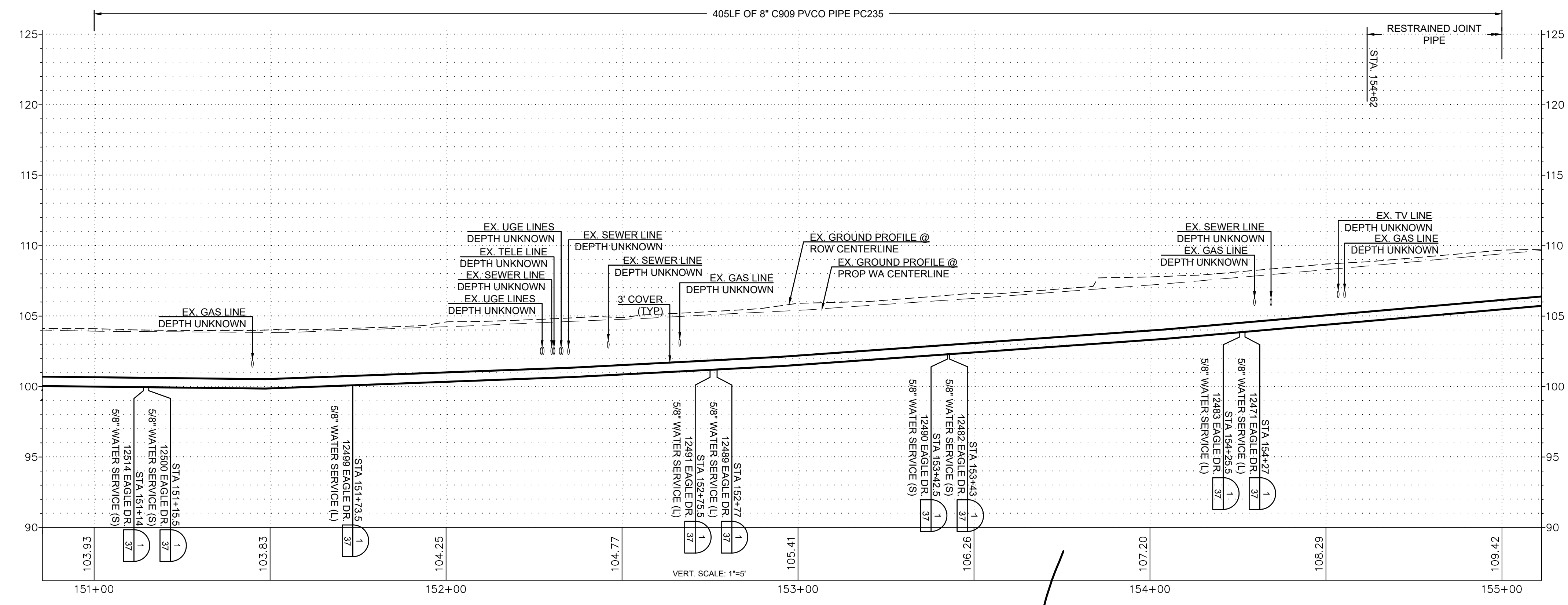
PUBLIC UTILITY DISTRICT
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SKAGIT COUNTRY CLUB PIPELINE
REPLACEMENT PROJECT
EAGLE DR/GREEN LN
PLAN AND PROFILE
STA 148+00 TO STA 151+00/
STA 300+50 TO STA 302+45
SCALE: 1"=20'
P.N. 03737
C.O. 5018
SHEET:
17 OF 37

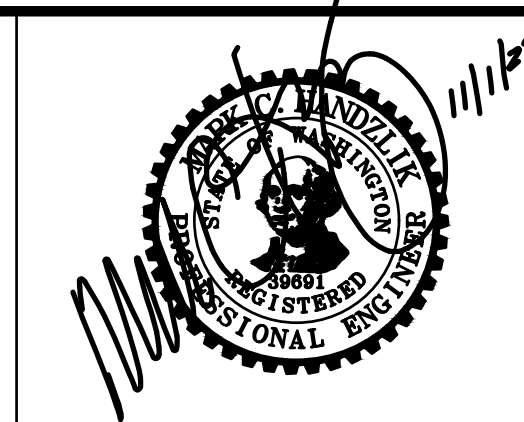


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RENEW SERVICES AT	
STA	ADDRESS
151+14	12514 EAGLE DR
151+15.5	12500 EAGLE DR
151+73.5	12499 EAGLE DR
152+75	12491 EAGLE DR
152+77	12489 EAGLE DR
153+42.5	12490 EAGLE DR
153+43	12482 EAGLE DR
154+25.5	12483 EAGLE DR
154+27	12471 EAGLE DR



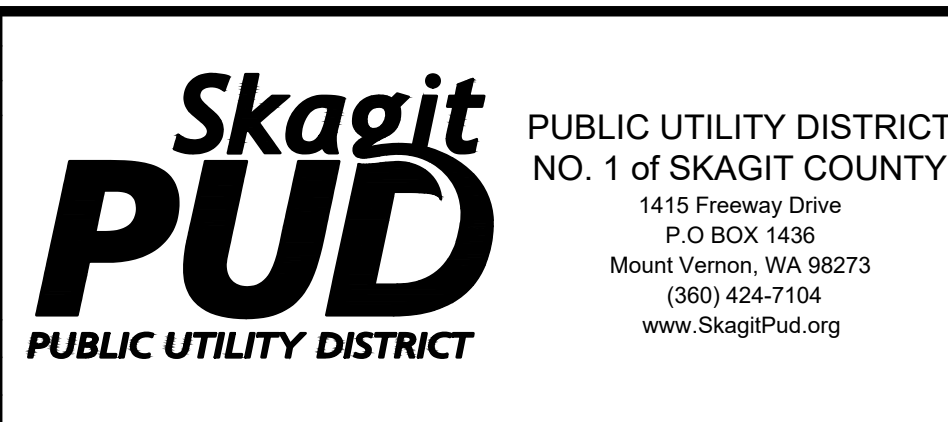
ISSUE	REVISIONS	BY	DATE
1.	60% DESIGN	MCH	5/1/23
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DATUM:
HOR: NAD 83
VERT: NAVD 88

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

DATE PRINTED: 10/31/23
SEC: 2
TWP: 34 N
RGE: 3 E



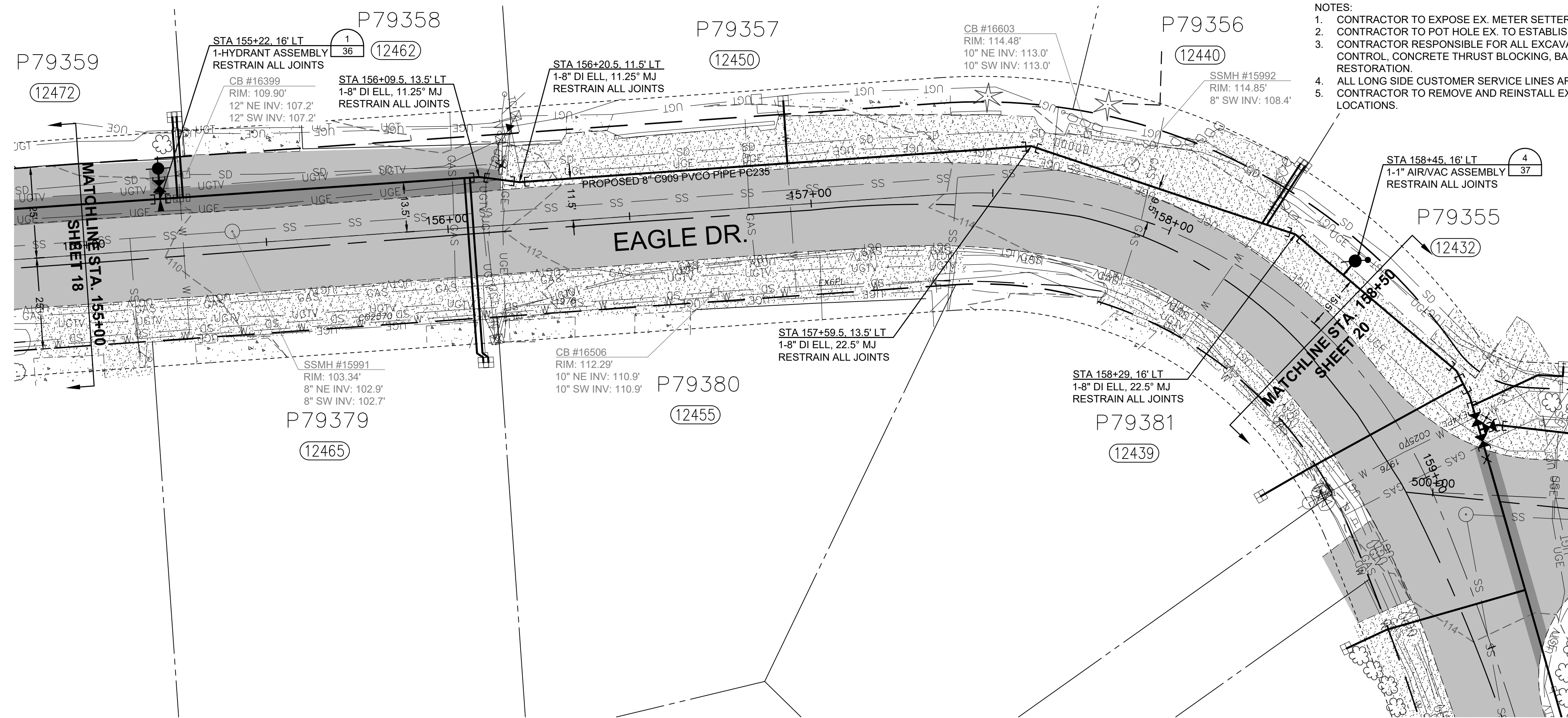
SKAGIT COUNTRY CLUB PIPELINE REPLACEMENT PROJECT

EAGLE DR
PLAN AND PROFILE
STA 151+00 TO STA 155+00

SCALE: 1"=20'

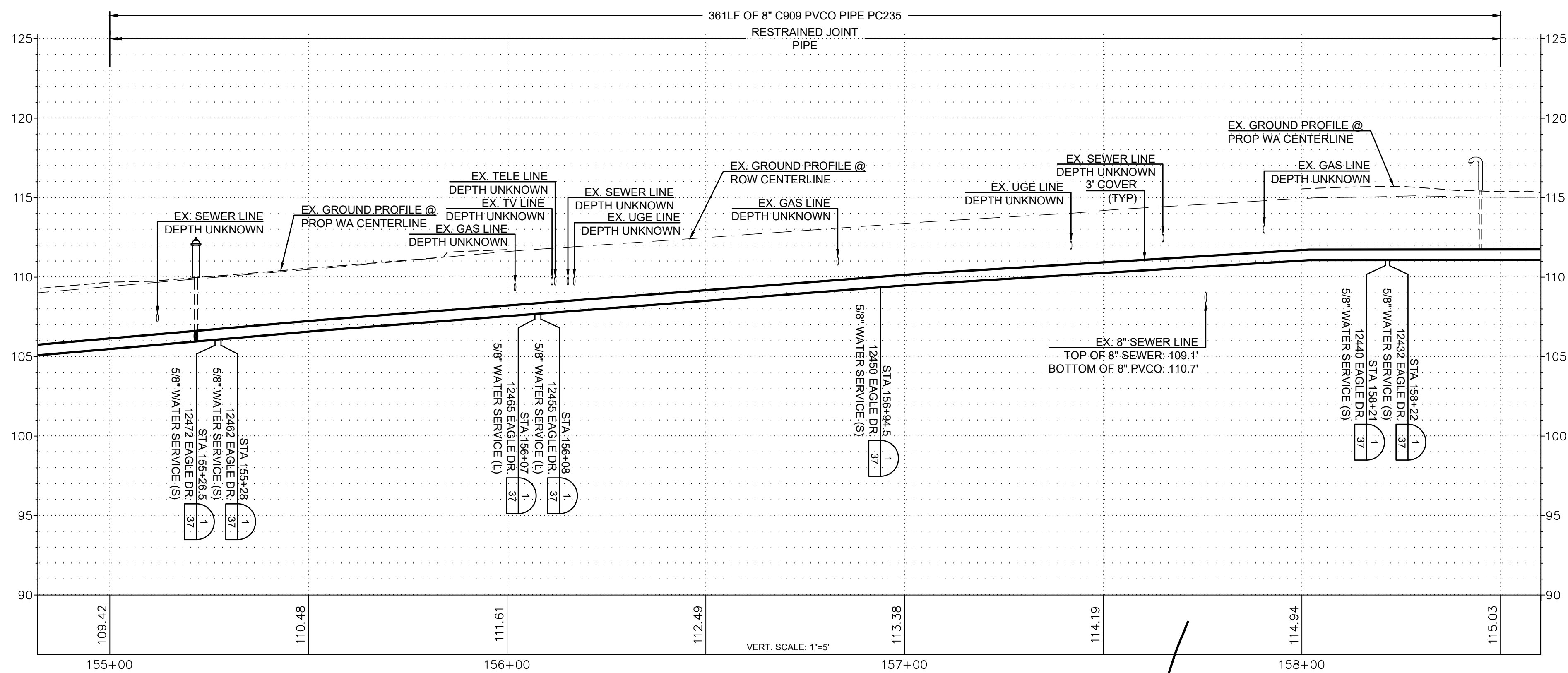
P.N. 03737
C.O. 5018

SHEET:
18 OF 37



- NOTES:
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RENEW SERVICES AT	
STA	ADDRESS
155+26.5	12472 EAGLE DR
155+28	12462 EAGLE DR
156+07	12465 EAGLE DR
156+08.5	12455 EAGLE DR
156+94.5	12450 EAGLE DR
158+21	12440 EAGLE DR
158+22	12432 EAGLE DR



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2.	90% DESIGN	MCH	7/19/23
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HOR: NAD 83
VERT: NAVD 88

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

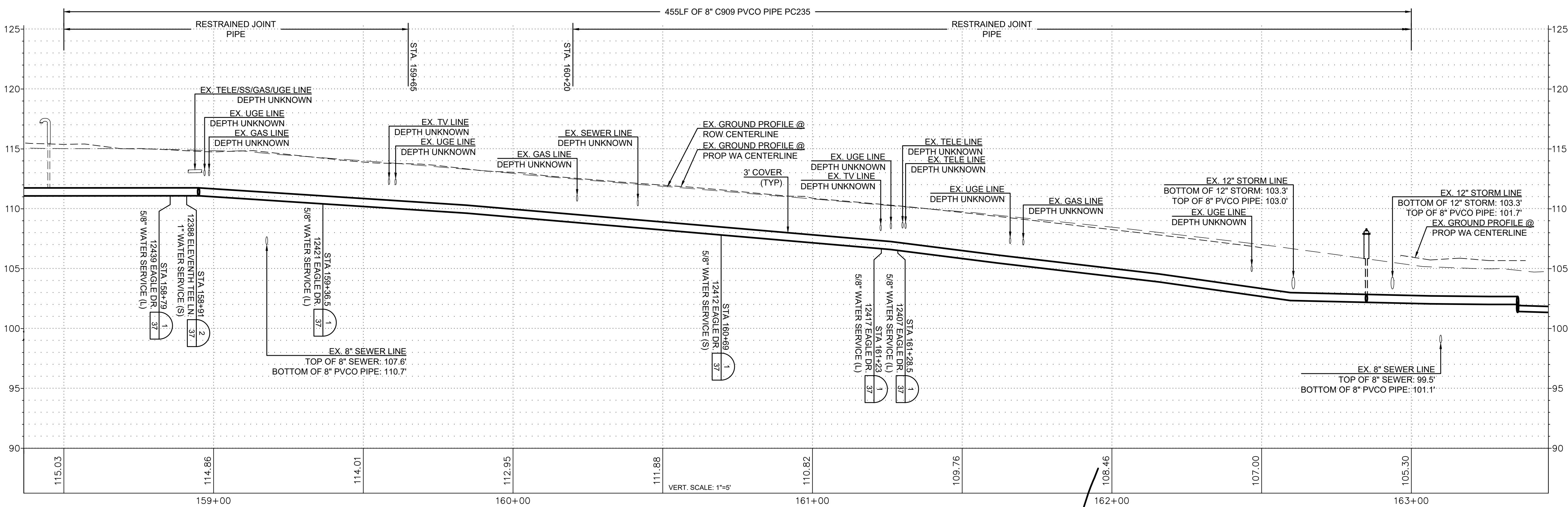
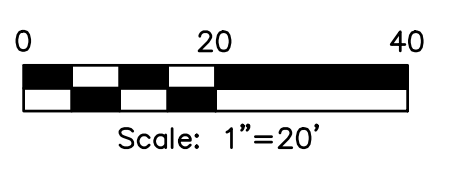
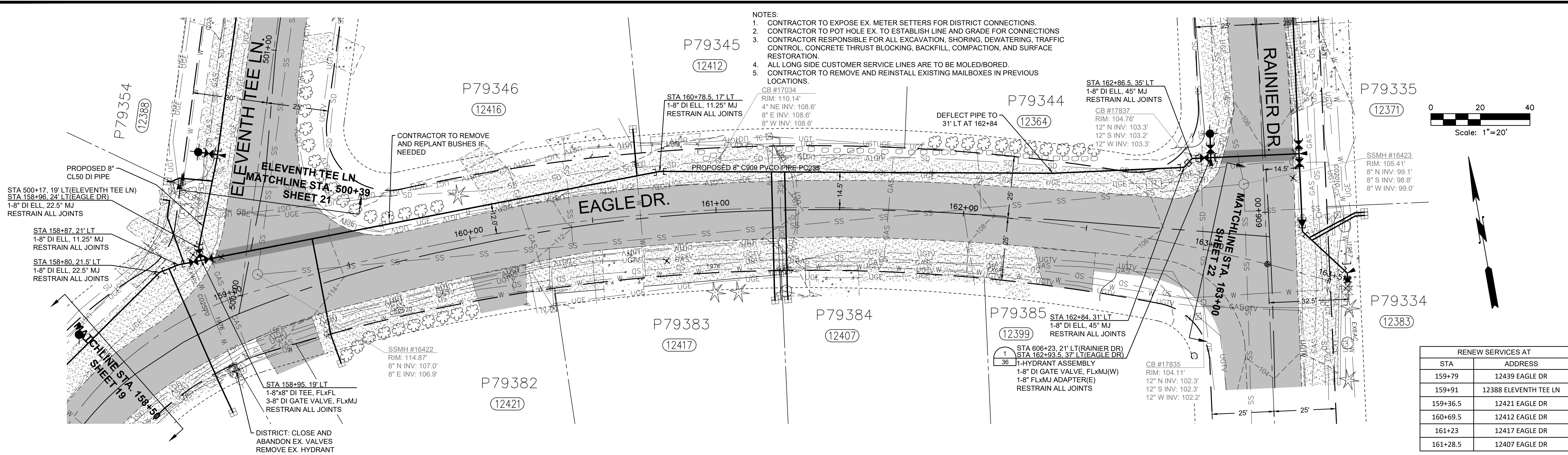
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SKAGIT COUNTRY CLUB PIPELINE
REPLACEMENT PROJECT

EAGLE DR
PLAN AND PROFILE
STA 155+00 TO STA 158+50



ISSUE	REVISIONS	BY	DATE
1.	60% DESIGN	MCH	5/1/23
2.	90% DESIGN	MCH	7/19/23
3.	ISSUED FOR BIDDING	MCH	10/31/23



DATUM:	DSGN BY: CAS
HOR: NAD 83	DWN BY: JLB
VERT: NAVD 88	APPVD BY: MCH
DATE PRINTED:	SEC: 2
10/31/23	TWP: 34 N
	RGE: 3 E



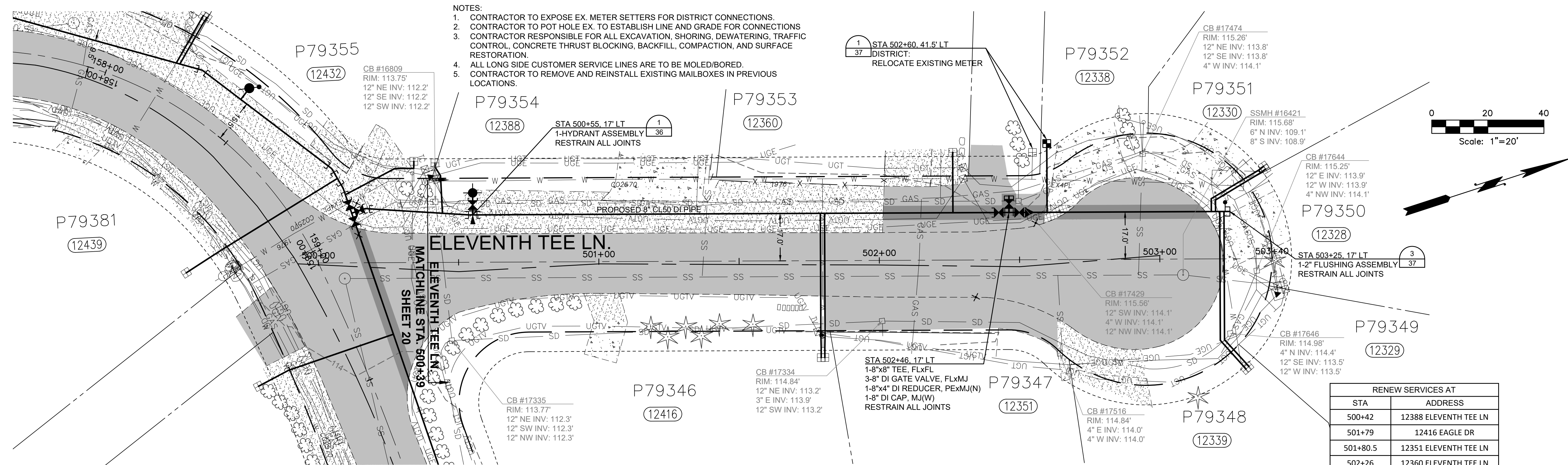
PUBLIC UTILITY DISTRICT NO. 1 of SKAGIT COUNTY
 1415 Freeway Drive
 P.O. BOX 1436
 Mount Vernon, WA 98273
 (360) 424-7104
 www.SkagitPud.org

SKAGIT COUNTRY CLUB PIPELINE REPLACEMENT PROJECT
 EAGLE DR
 PLAN AND PROFILE
 STA 158+50 TO STA 163+00

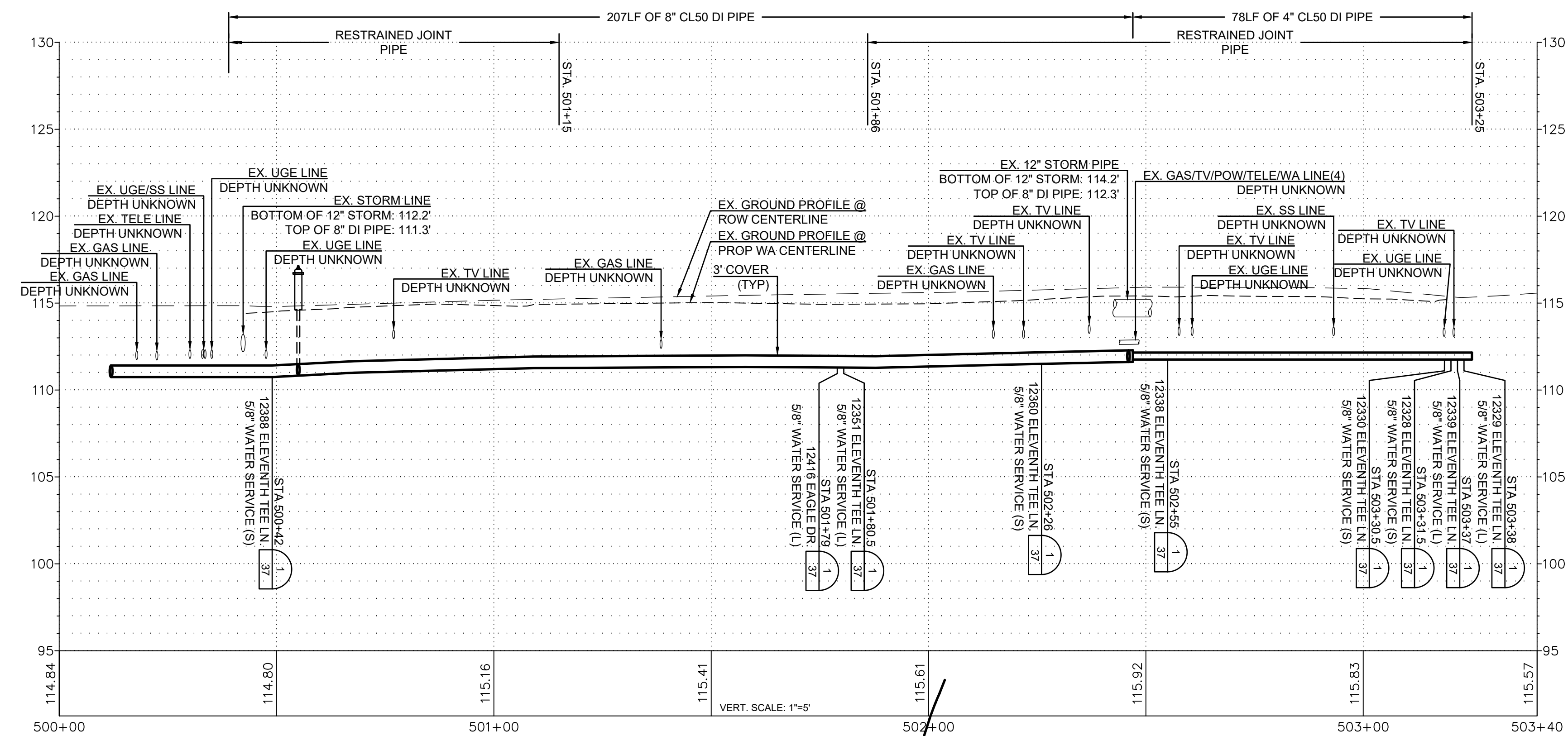
SCALE: 1"=20'

P.N. 03737
 C.O. 5018


SHEET:
 20 OF 37



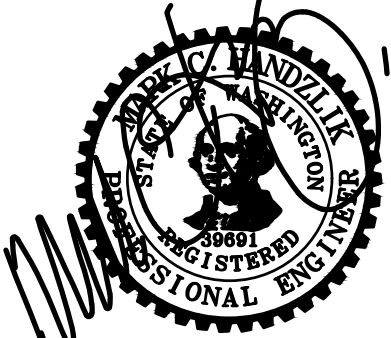
RENEW SERVICES AT	
STA	ADDRESS
500+42	12388 ELEVENTH TEE LN
501+79	12416 EAGLE DR
501+80.5	12351 ELEVENTH TEE LN
502+26	12360 ELEVENTH TEE LN
502+55	12338 ELEVENTH TEE LN
503+30.5	12330 ELEVENTH TEE LN
503+31.5	12328 ELEVENTH TEE LN
503+37	12339 ELEVENTH TEE LN
503+38	12329 ELEVENTH TEE LN



ISSUE	REVISIONS	BY	DATE
1.	60% DESIGN	MCH	5/1/23
2.	90% DESIGN	MCH	7/19/23
3.	ISSUED FOR BIDDING	MCH	10/31/23




Know what's below.
Call before you dig.



DATUM: HOR: NAD 83 VERT: NAVD 88

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

DATE PRINTED: 10/31/23 SEC: 2
TWP: 34 N
RGE: 3 E



Skagit PUD
PUBLIC UTILITY DISTRICT

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SKAGIT COUNTRY CLUB PIPELINE REPLACEMENT PROJECT

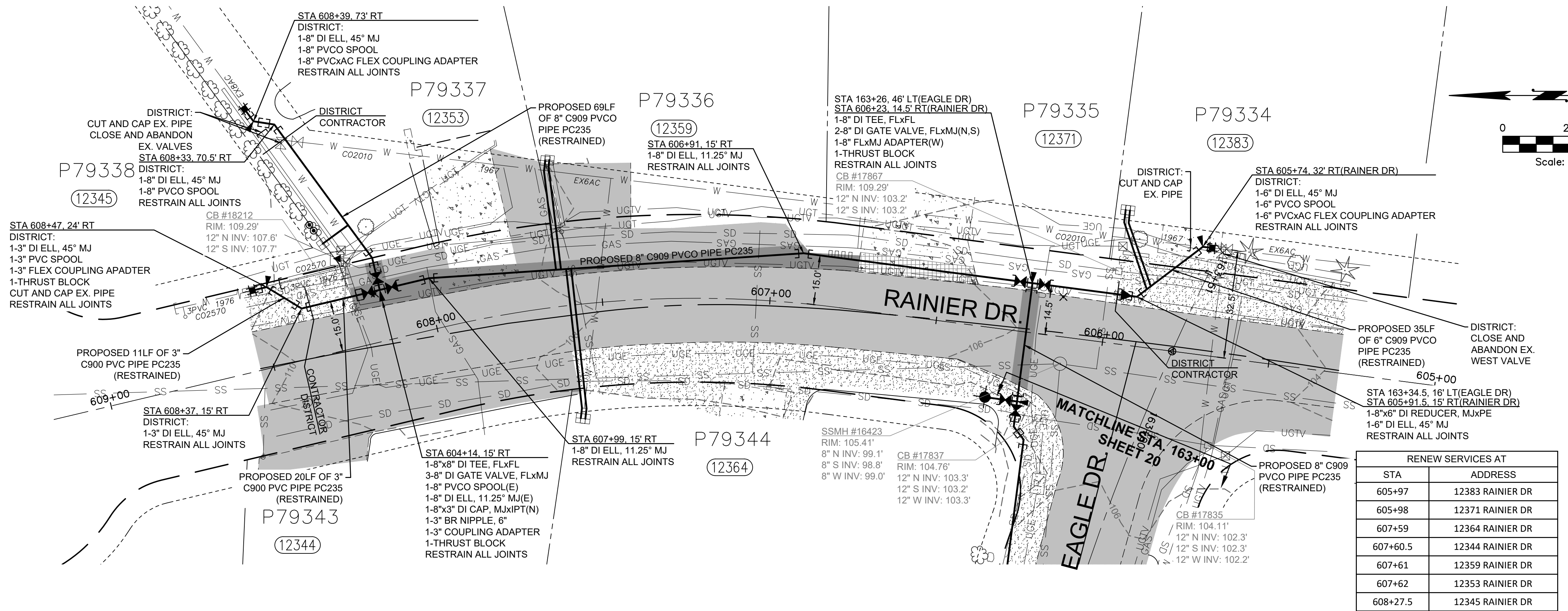
ELEVENTH TEE LN
PLAN AND PROFILE
STA 500+39 TO STA 503+40

SCALE: 1"=20'

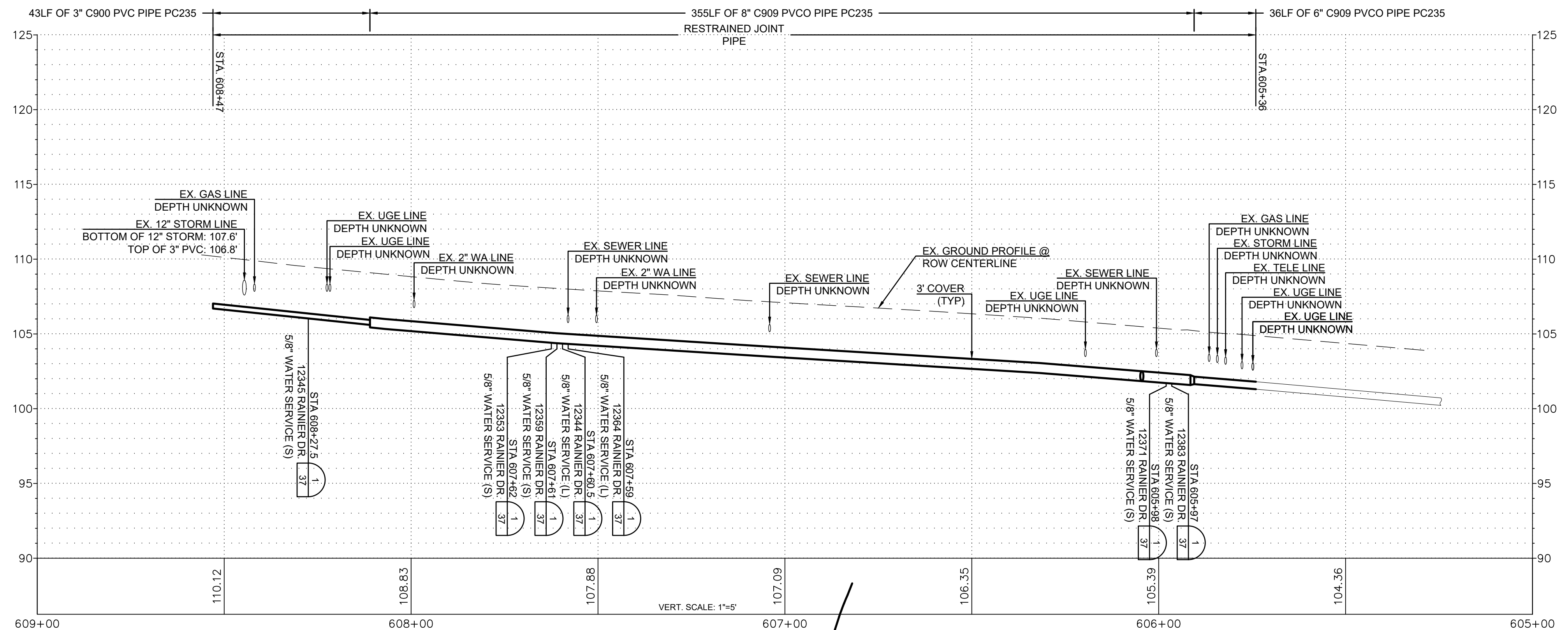
P.N. 03737	SHEET: 21 OF 37
C.O. 5018	

NOTES:

1. CONTRACTOR TO EXPOSE EX. METER SETTERS 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 REMOVE AND REINSTALL EXISTING MAILBOXES IN PREVIOUS LOCATIONS.



RENEW SERVICES AT	
STA	ADDRESS
605+97	12383 RAINIER DR
605+98	12371 RAINIER DR
607+59	12364 RAINIER DR
607+60.5	12344 RAINIER DR
607+61	12359 RAINIER DR
607+62	12353 RAINIER DR
608+27.5	12345 RAINIER DR



ISSUE	REVISIONS	BY	DATE
1.	60% DESIGN	MCH	5/1/23
2.	90% DESIGN	MCH	7/19/23
3.	ISSUED FOR BIDDING	MCH	10/31/23



DATUM: HOR: NAD 83 VERT: NAVD 88	DSGN BY: CAS DWN BY: JLB APPVD BY: MCH
DATE PRINTED: 10/31/23	SEC: 2 TWP: 34 N RGE: 3 E

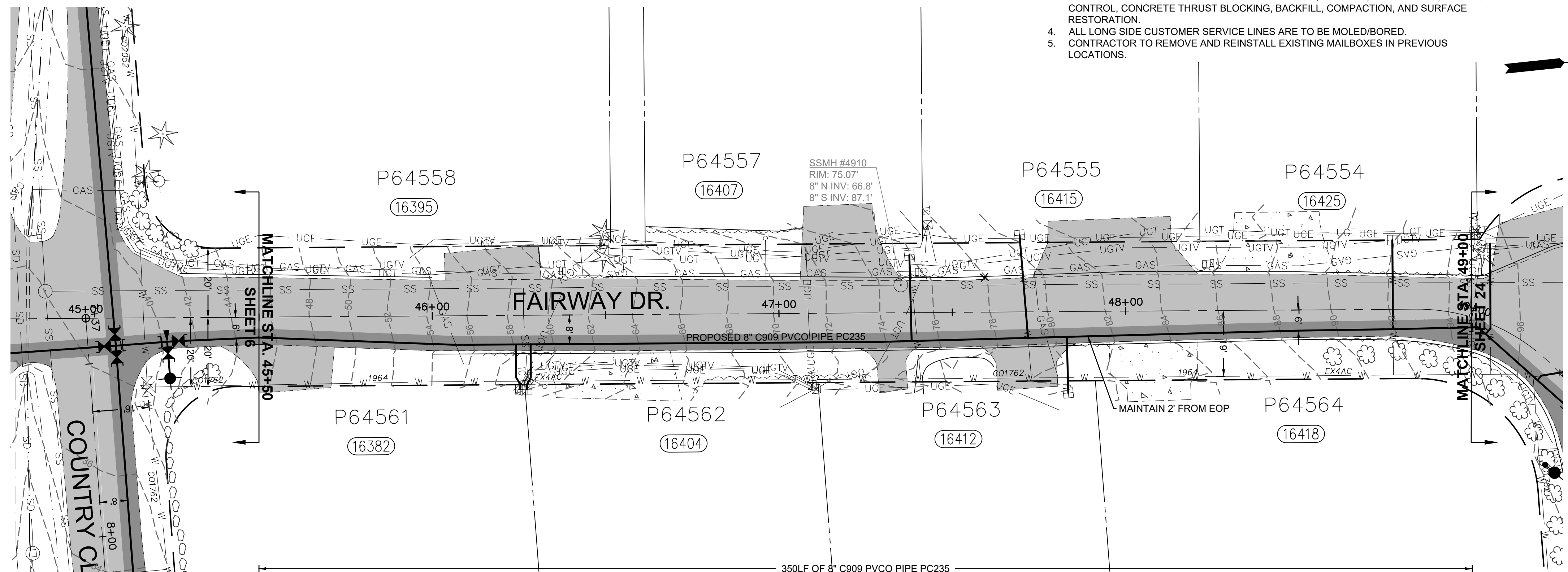
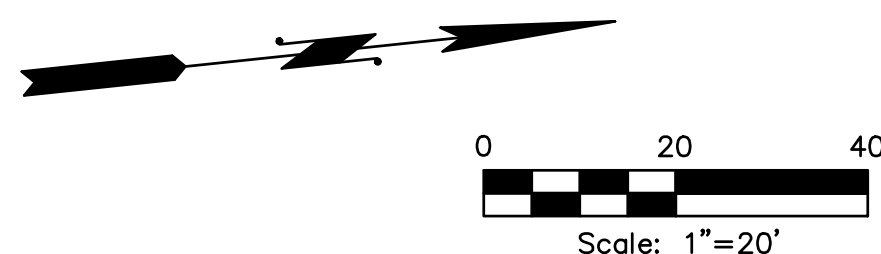


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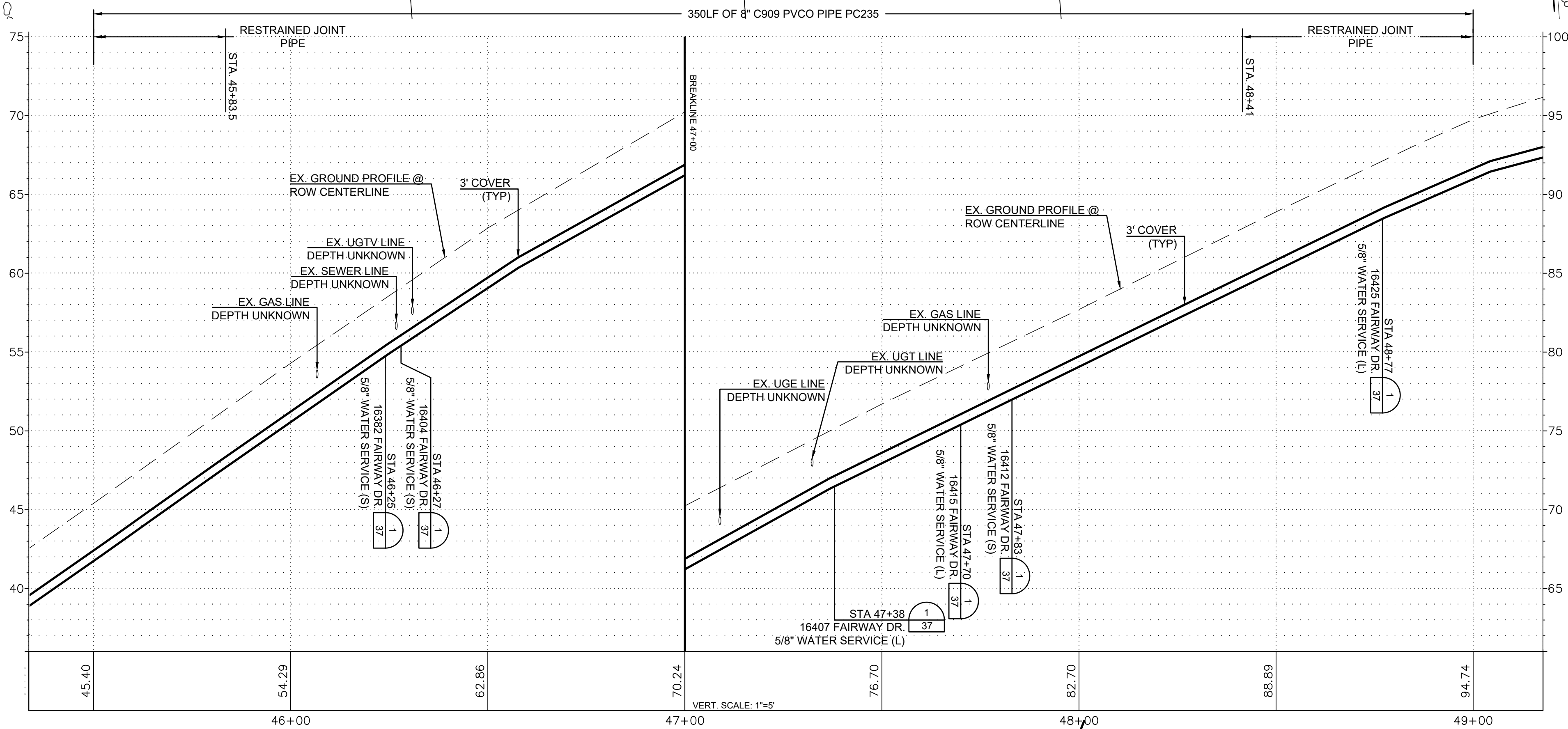
SKAGIT COUNTRY CLUB PIPELINE
REPLACEMENT PROJECT
RAINIER DR
PLAN AND PROFILE
STA 605+00 TO STA 609+00

SCALE: 1"=20'	P.N. 03737	SHEET: 22 OF 37
	C.O. 5018	

- NOTES:
1. CONTRACTOR TO EXPOSE EX. METER SETTERS FOR DISTRICT CONNECTIONS.
 2. CONTRACTOR TO POT HOLE EX. TO ESTABLISH LINE AND GRADE FOR CONNECTIONS
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RENEW SERVICES AT	
STA	ADDRESS
46+25	16382 FAIRWAY DR
46+27	16404 FAIRWAY DR
47+38	16407 FAIRWAY DR
47+70	16415 FAIRWAY DR
47+83	16412 FAIRWAY DR
48+77	16425 FAIRWAY DR



ISSUE	REVISIONS	BY	DATE
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2.	90% DESIGN	MCH	7/19/23
3.	ISSUED FOR BIDDING	MCH	10/31/23



DATUM:
HOR: NAD 83
VERT: NAVD 88

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

DATE PRINTED: 10/31/23

SEC: 2
TWP: 34 N
RGE: 3 E



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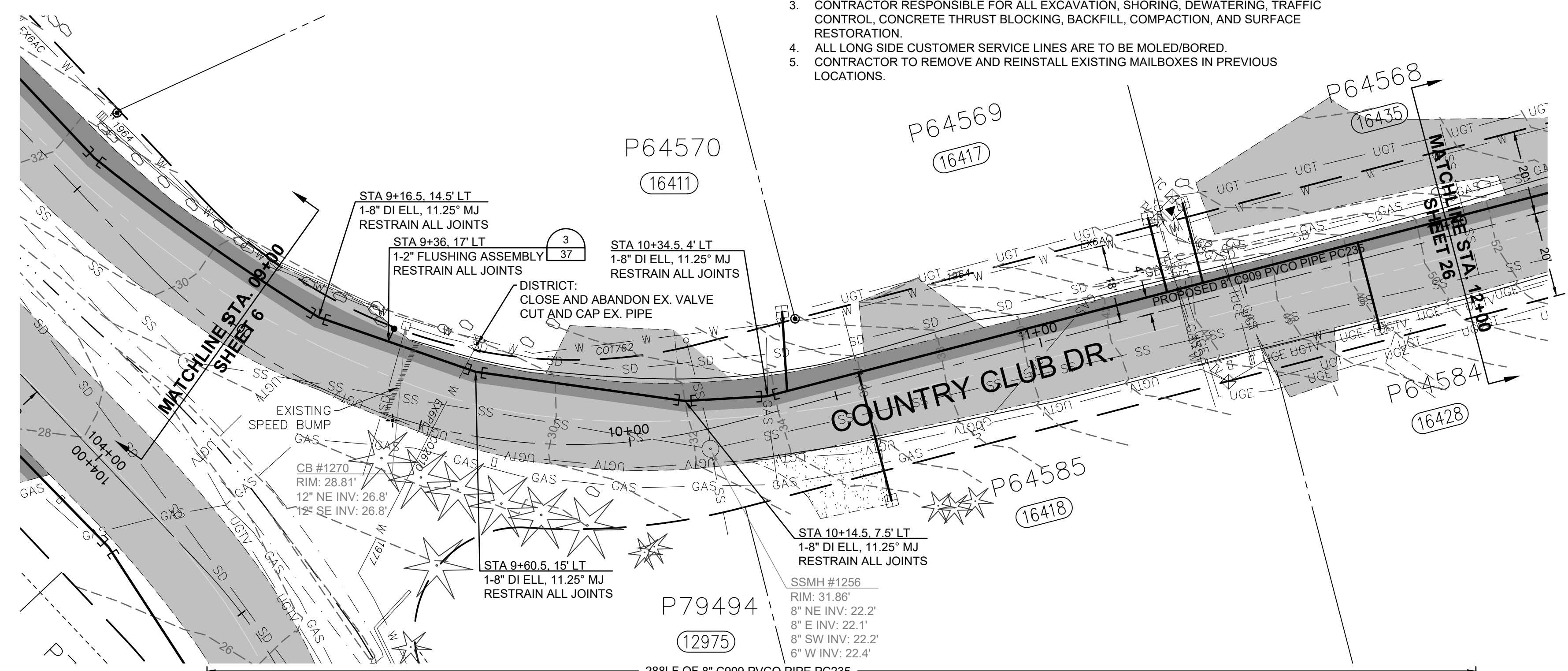
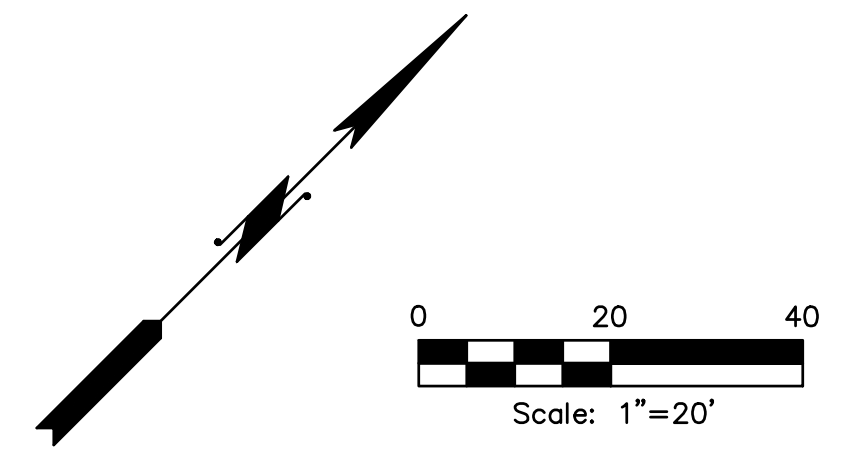
SKAGIT COUNTRY CLUB PIPELINE
REPLACEMENT PROJECT

FAIRWAY DR
PLAN AND PROFILE
STA 45+50 TO STA 49+00

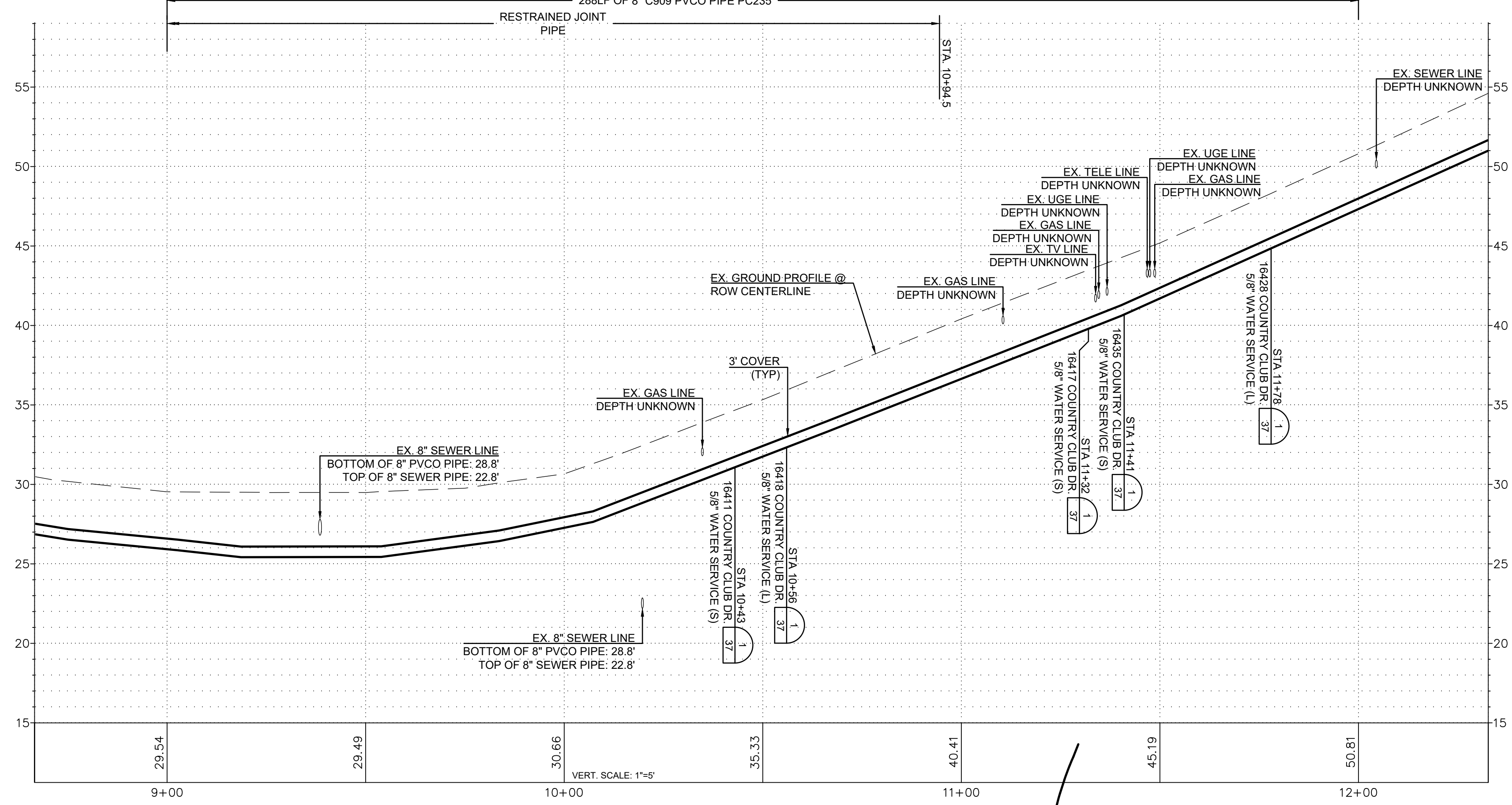
SCALE: 1"=20'

P.N. 03737	SHEET: 23 OF 37
C.O. 5018	

- NOTES:
1. CONTRACTOR TO EXPOSE EX. METER SETTERS FOR DISTRICT CONNECTIONS.
 2. CONTRACTOR TO POT HOLE EX. TO ESTABLISH LINE AND GRADE FOR CONNECTIONS
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RENEW SERVICES AT	
STA	ADDRESS
10+43	16411 COUNTRY CLUB DR
10+56	16418 COUNTRY CLUB DR
11+32	16417 COUNTRY CLUB DR
11+41	16435 COUNTRY CLUB DR
11+78	16428 COUNTRY CLUB DR



ISSUE	REVISIONS	BY	DATE
1.	60% DESIGN	MCH	5/1/23
2.	90% DESIGN	MCH	7/19/23
3.	ISSUED FOR BIDDING	MCH	10/31/23



DATUM:
HOR: NAD 83
VERT: NAVD 88

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

DATE PRINTED: 10/31/23
SEC: 2
TWP: 34 N
RGE: 3 E



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SKAGIT COUNTRY CLUB PIPELINE
REPLACEMENT PROJECT

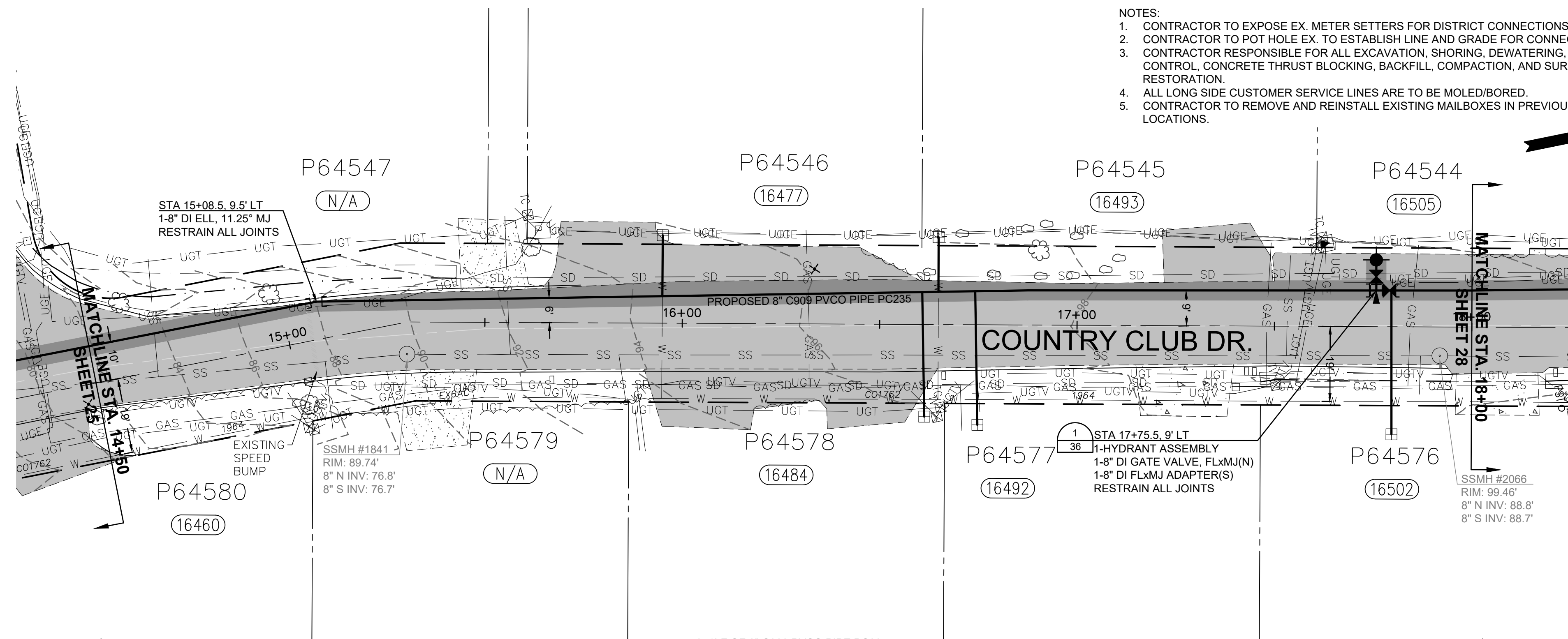
COUNTRY CLUB DR
PLAN AND PROFILE
STA 9+00 TO STA 12+00

SCALE: 1"=20'

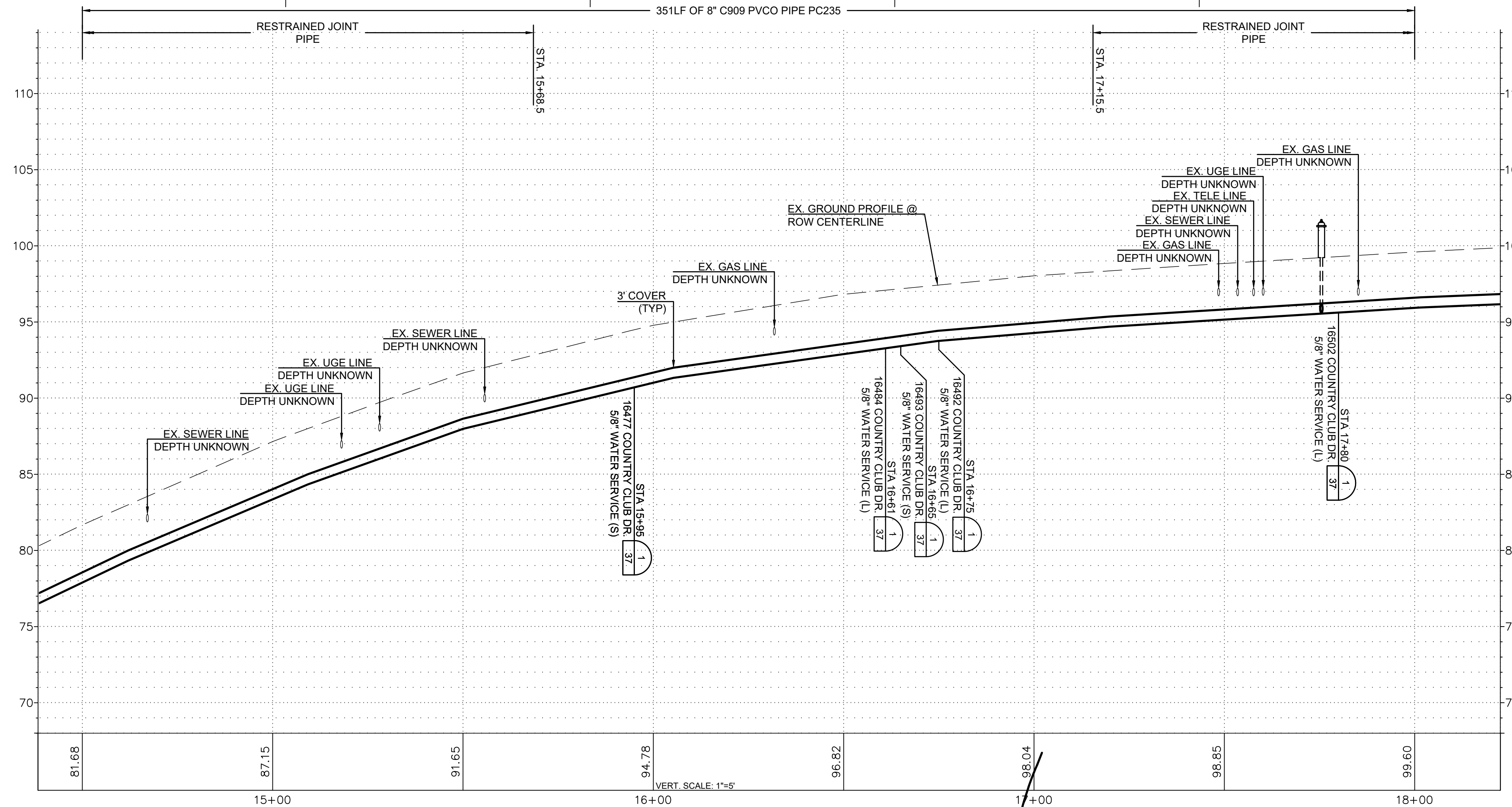
P.N. 03737
C.O. 5018

SHEET:
25 OF 37

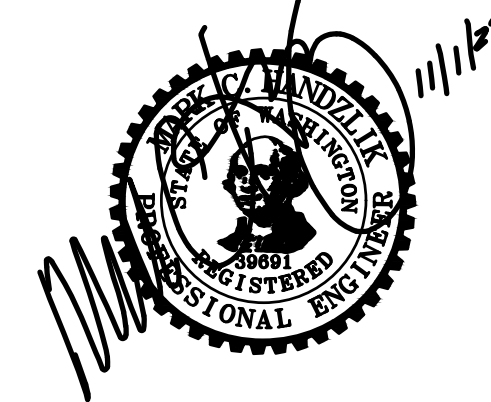
- NOTES:
1. CONTRACTOR TO EXPOSE EX. METER SETTERS FOR DISTRICT CONNECTIONS.
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RENEW SERVICES AT	
STA	ADDRESS
15+95	16477 COUNTRY CLUB DR
16+61	16484 COUNTRY CLUB DR
16+65	16493 COUNTRY CLUB DR
16+75	16492 COUNTRY CLUB DR
17+80	16502 COUNTRY CLUB DR



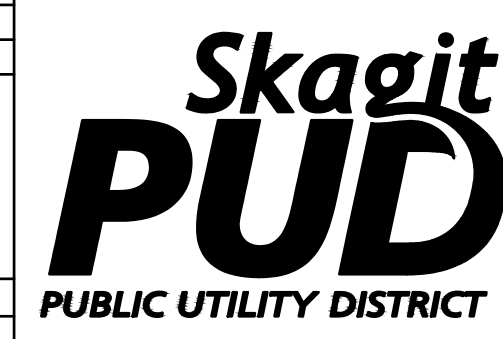
ISSUE	REVISIONS	BY	DATE
1.	60% DESIGN	MCH	5/1/23
2.	90% DESIGN	MCH	7/19/23
3.	ISSUED FOR BIDDING	MCH	10/31/23



DATUM:
HOR: NAD 83
VERT: NAVD 88

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

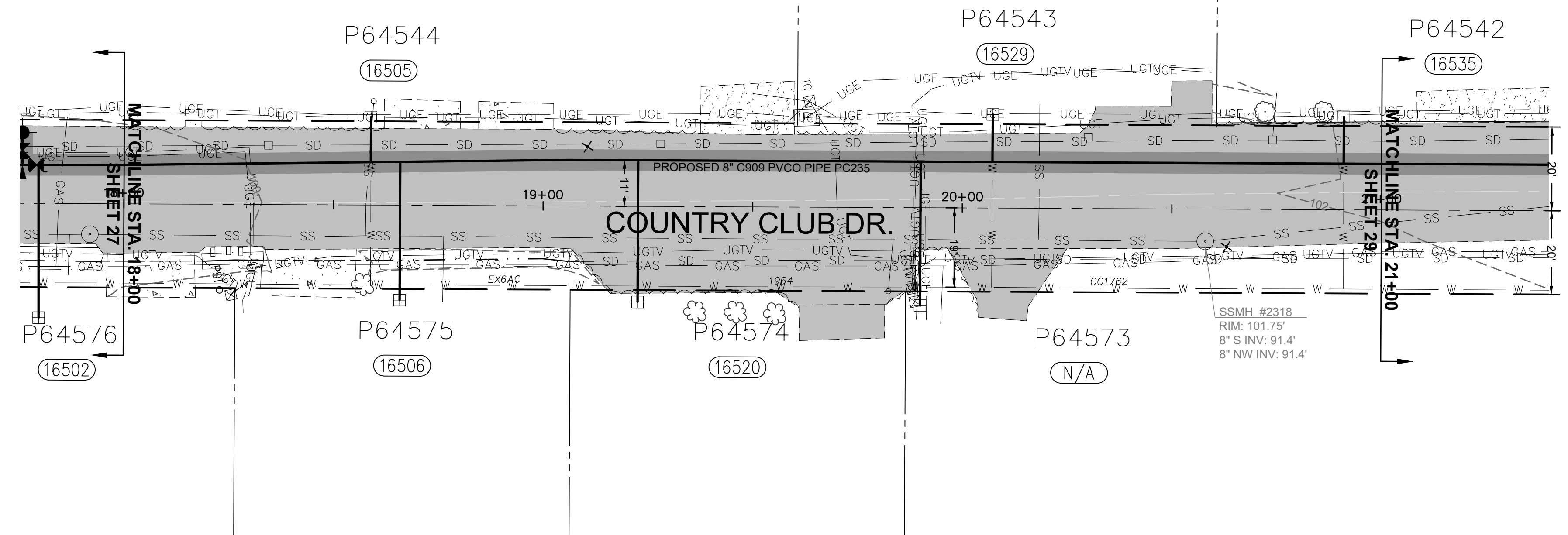
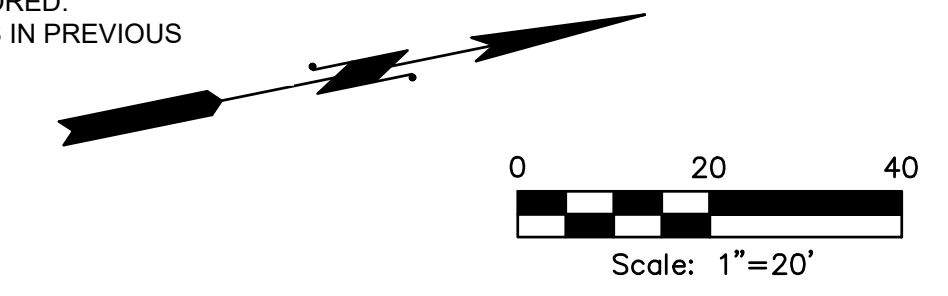
DATE PRINTED: 10/31/23
SEC: 2
TWP: 34 N
RGE: 3 E



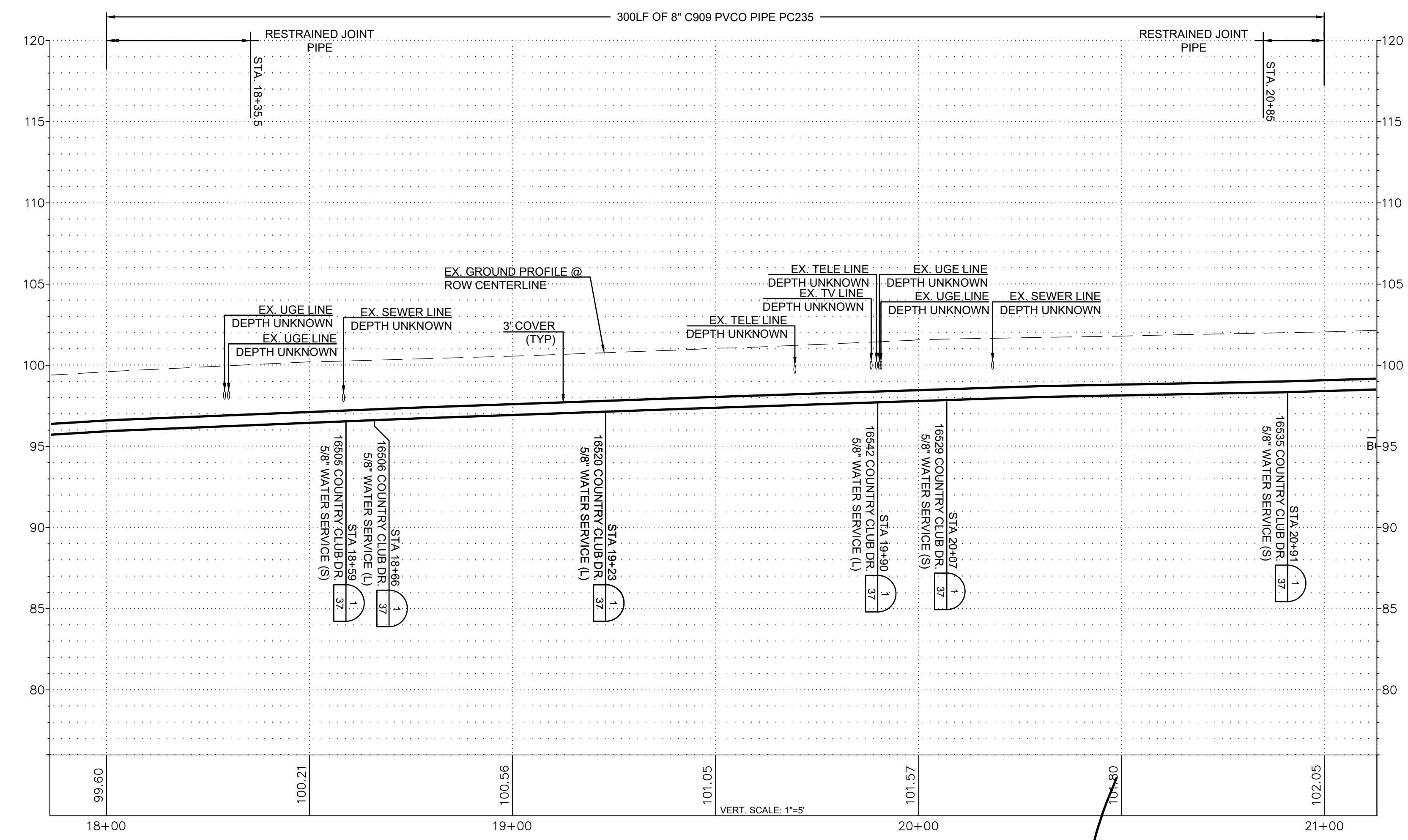
PUBLIC UTILITY DISTRICT
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1415 Freeway Drive
P.O. BOX 1436
Mount Vernon, WA 98273
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SKAGIT COUNTRY CLUB PIPELINE
REPLACEMENT PROJECT
COUNTRY CLUB DR
PLAN AND PROFILE
STA 14+50 TO STA 18+00

- NOTES:
1. CONTRACTOR TO EXPOSE EX. METER SETTERS 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.
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RENEW SERVICES AT	
STA	ADDRESS
18+59	16505 COUNTRY CLUB DR
18+66	16506 COUNTRY CLUB DR
19+23	16520 COUNTRY CLUB DR
19+90	16542 COUNTRY CLUB DR
20+07	16529 COUNTRY CLUB DR
20+91	16535 COUNTRY CLUB DR



ISSUE	REVISIONS	BY	DATE
1.	60% DESIGN	MCH	5/1/23
2.	90% DESIGN	MCH	7/19/23
3.	ISSUED FOR BIDDING	MCH	10/31/23

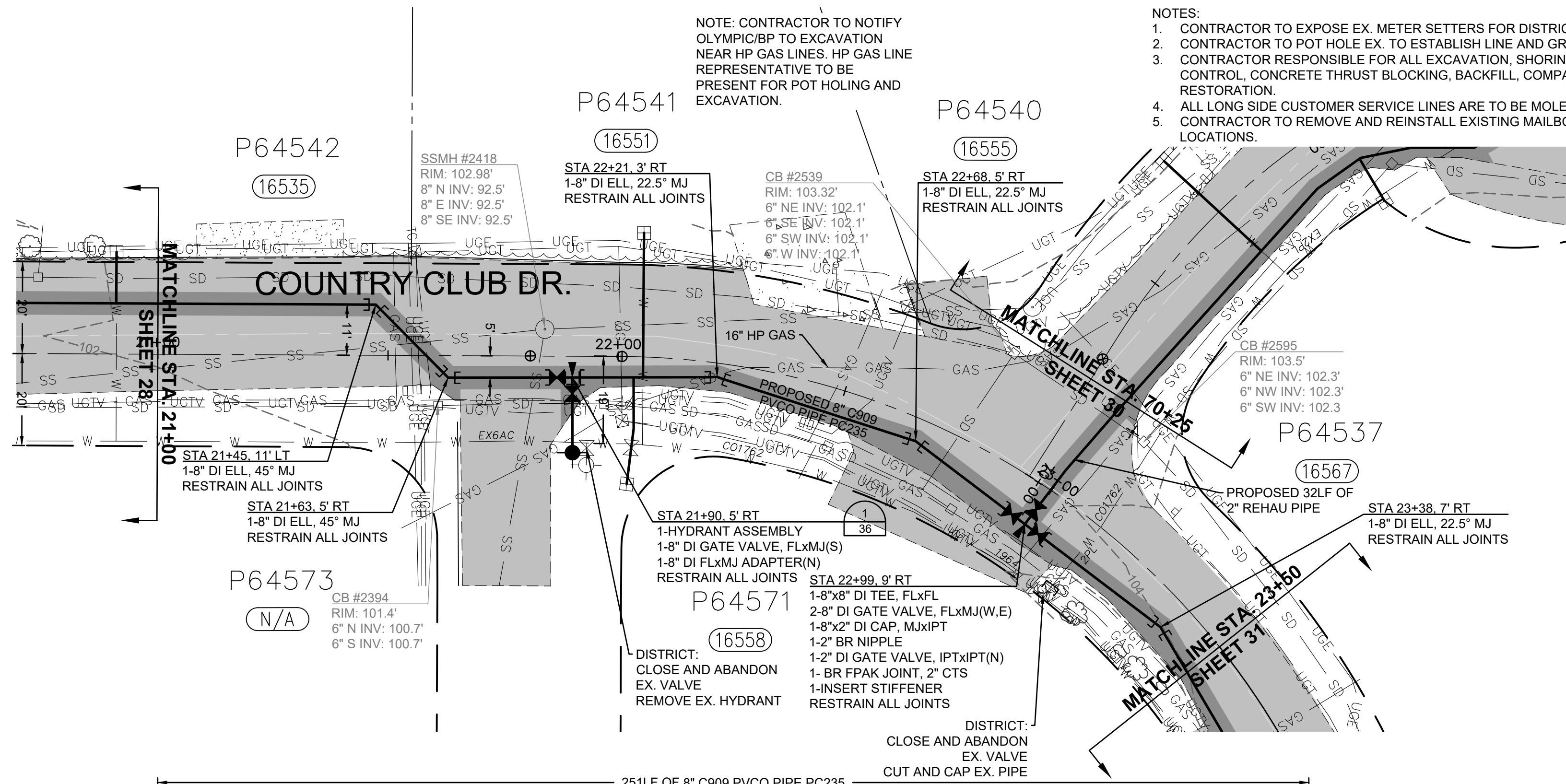


DATUM: HOR: NAD 83 VERT: NAVD 88	DSGN BY: CAS DWN BY: JLB APPVD BY: MCH
DATE PRINTED: 10/31/23	SEC: 2 TWP: 34 N RGE: 3 E



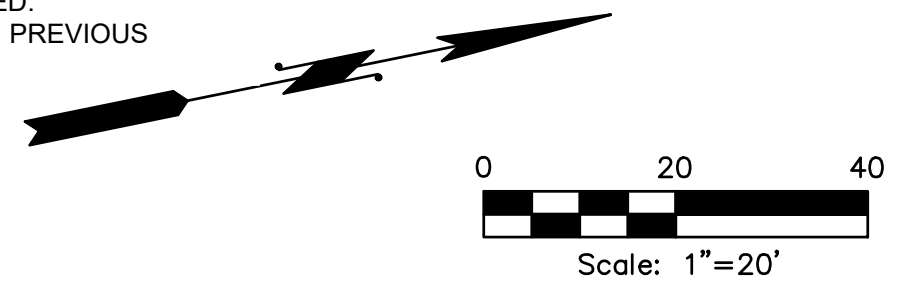
PUBLIC UTILITY DISTRICT
NO. 1 of SKAGIT COUNTY
1415 Freeway Drive
P.O. BOX 1436
Mount Vernon, WA 98273
(360) 424-7104
www.SkagitPud.org

SKAGIT COUNTRY CLUB PIPELINE REPLACEMENT PROJECT	
COUNTRY CLUB DR PLAN AND PROFILE STA 18+00 TO STA 21+00	
SCALE: 1"=20'	P.N. 03737 C.O. 5018
SHEET:	28 OF 37

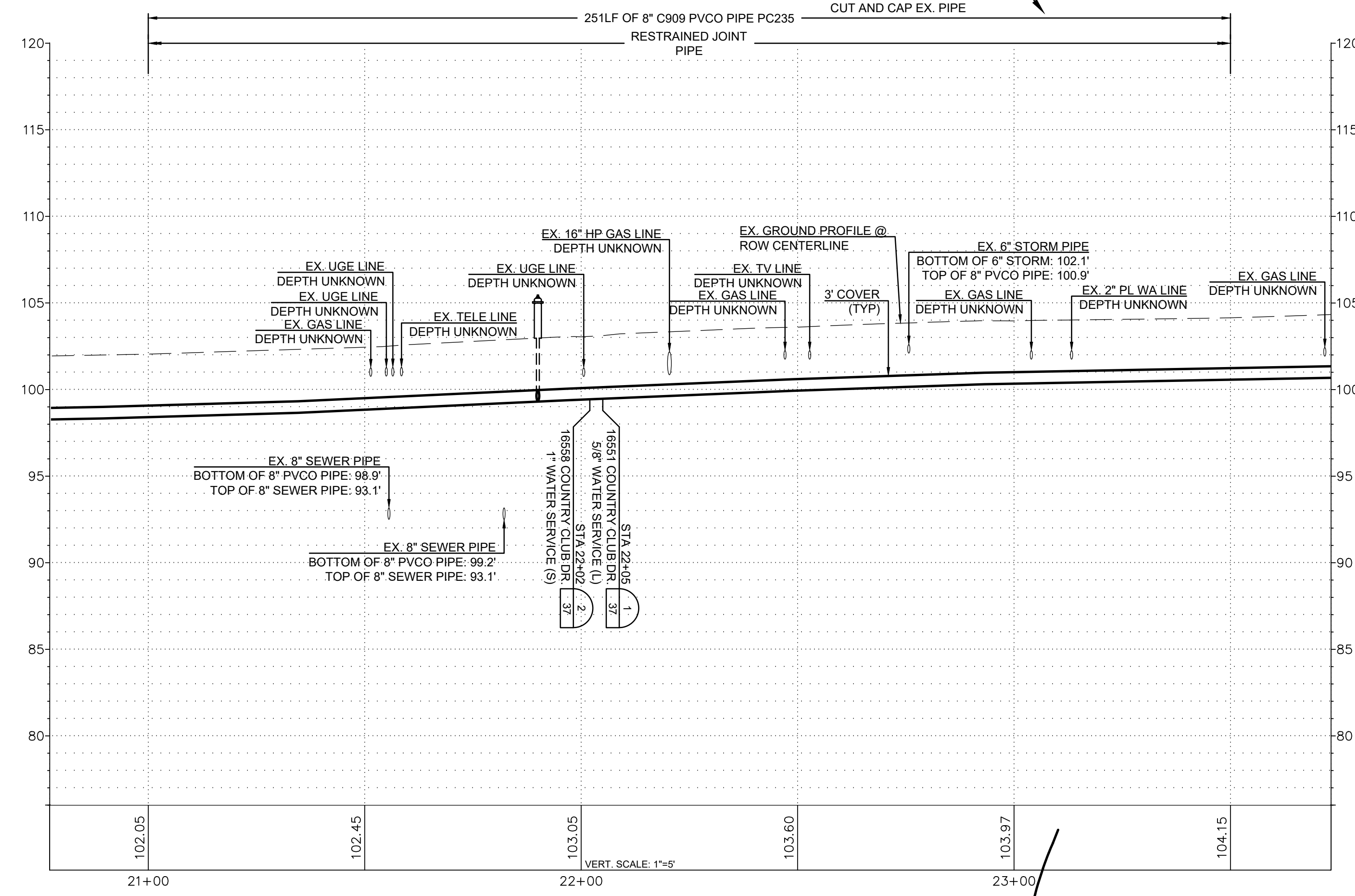


NOTE: CONTRACTOR TO NOTIFY OLYMPIC/BP TO EXCAVATION NEAR HP GAS LINES. HP GAS LINE REPRESENTATIVE TO BE PRESENT FOR POT HOLING AND EXCAVATION.

- NOTES:
1. CONTRACTOR TO EXPOSE EX. METER SETTERS FOR DISTRICT CONNECTIONS.
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RENEW SERVICES AT	
STA	ADDRESS
22+02	16558 COUNTRY CLUB DR
22+05	16551 COUNTRY CLUB DR



ISSUE	REVISIONS	BY	DATE
1.	60% DESIGN	MCH	5/1/23
2.	90% DESIGN	MCH	7/19/23
3.	ISSUED FOR BIDDING	MCH	10/31/23

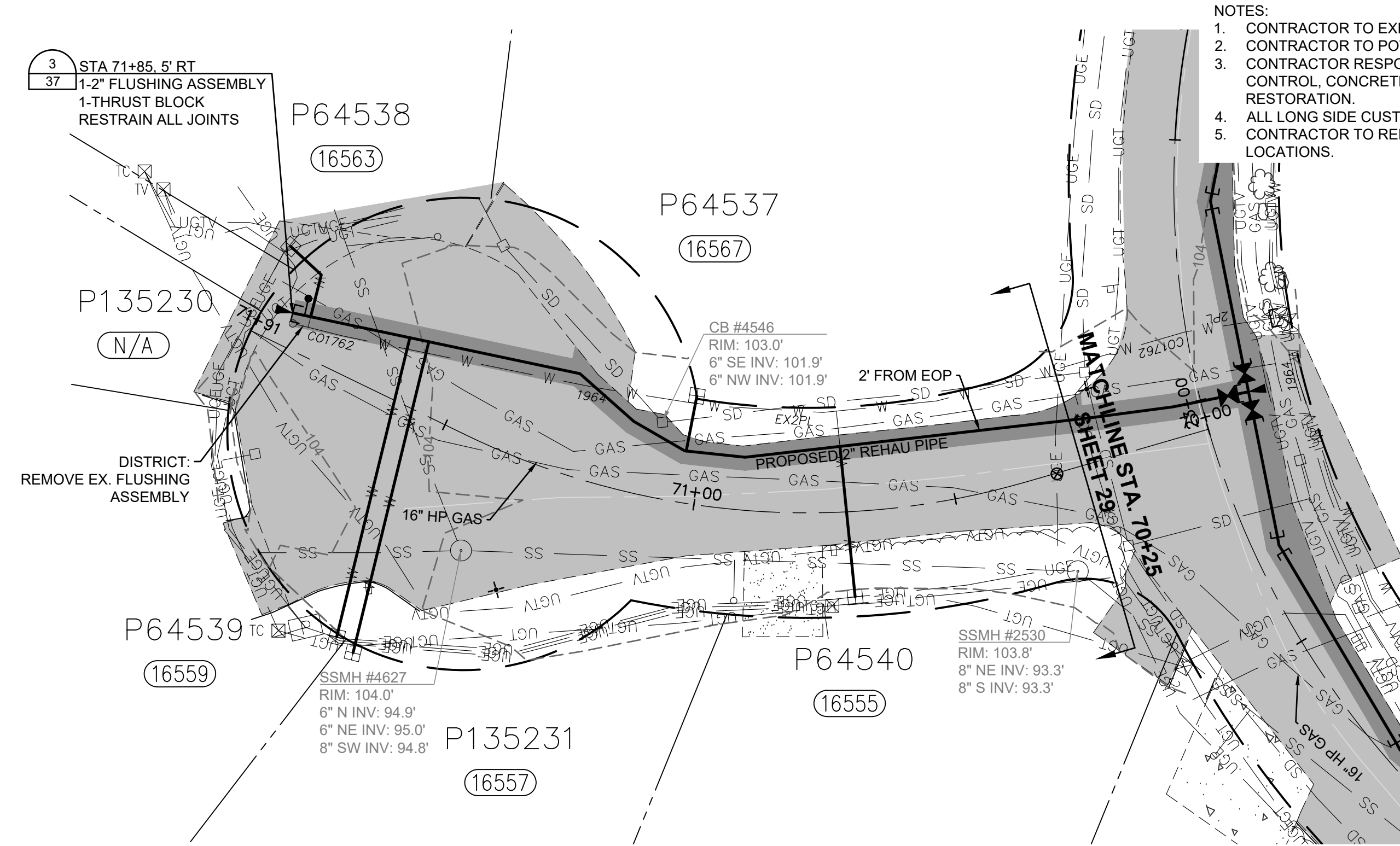


DATUM: HOR: NAD 83 VERT: NAVD 88	DSGN BY: CAS DWN BY: JLB APPVD BY: MCH
DATE PRINTED: 10/31/23	SEC: 2 TWP: 34 N RGE: 3 E



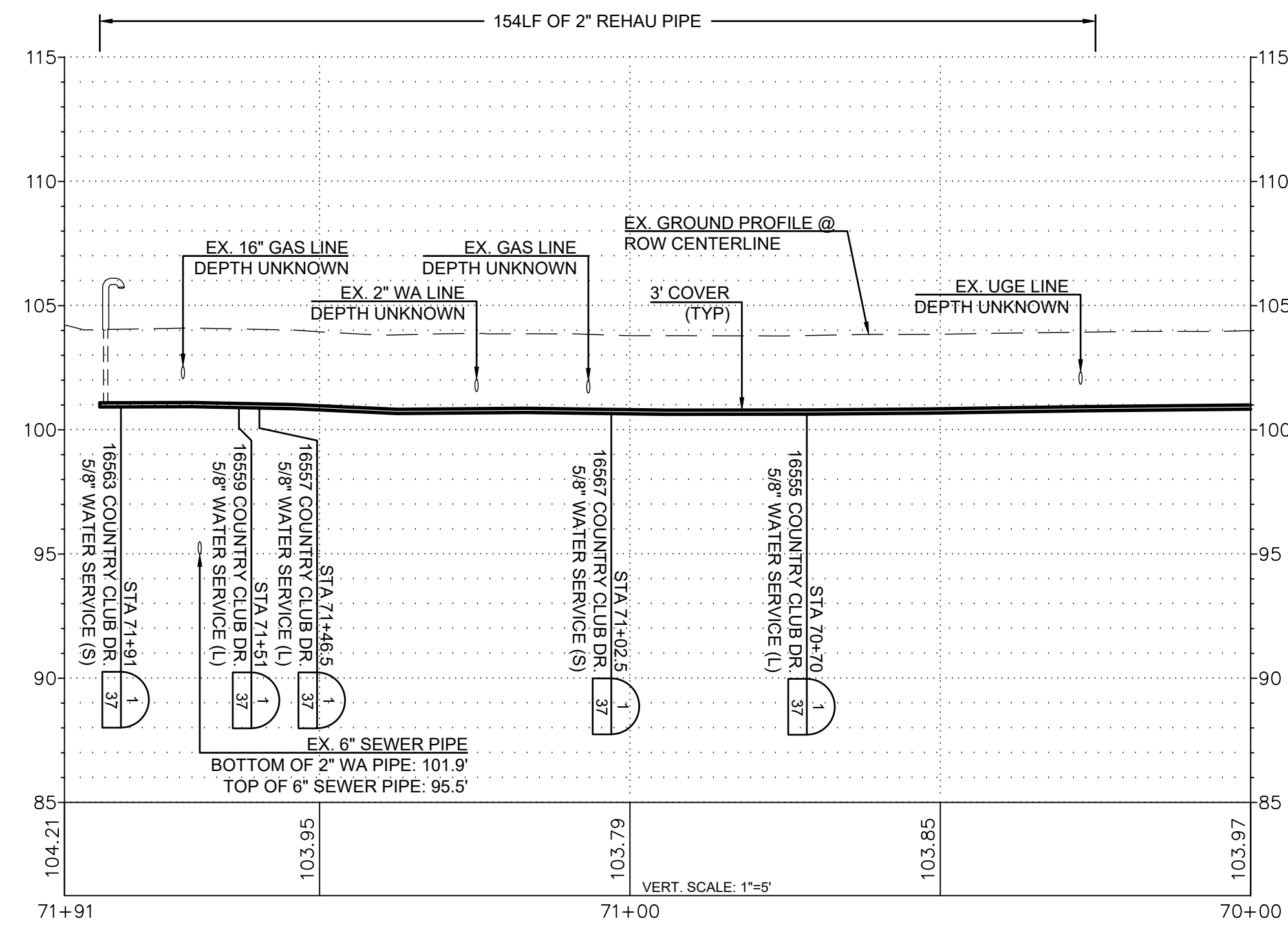
PUBLIC UTILITY DISTRICT
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P.O. BOX 1436
Mount Vernon, WA 98273
(360) 424-7104
www.SkagitPud.org

SKAGIT COUNTRY CLUB PIPELINE REPLACEMENT PROJECT	
COUNTRY CLUB DR PLAN AND PROFILE STA 21+00 TO STA 23+50	
SCALE: 1"=20'	P.N. 03737 C.O. 5018
SHEET: 29 OF 37	



- NOTES:
1. CONTRACTOR TO EXPOSE EX. METER SETTERS FOR DISTRICT CONNECTIONS.
 2. CONTRACTOR TO POT HOLE EX. TO ESTABLISH LINE AND GRADE FOR CONNECTIONS
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RENEW SERVICES AT	
STA	ADDRESS
70+70	16555 COUNTRY CLUB DR
71+02.5	16567 COUNTRY CLUB DR
71+46.5	16557 COUNTRY CLUB DR
71+51	16559 COUNTRY CLUB DR
71+91	16563 COUNTRY CLUB DR



ISSUE	REVISIONS	BY	DATE
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2.	90% DESIGN	MCH	7/19/23
3.	ISSUED FOR BIDDING	MCH	10/31/23



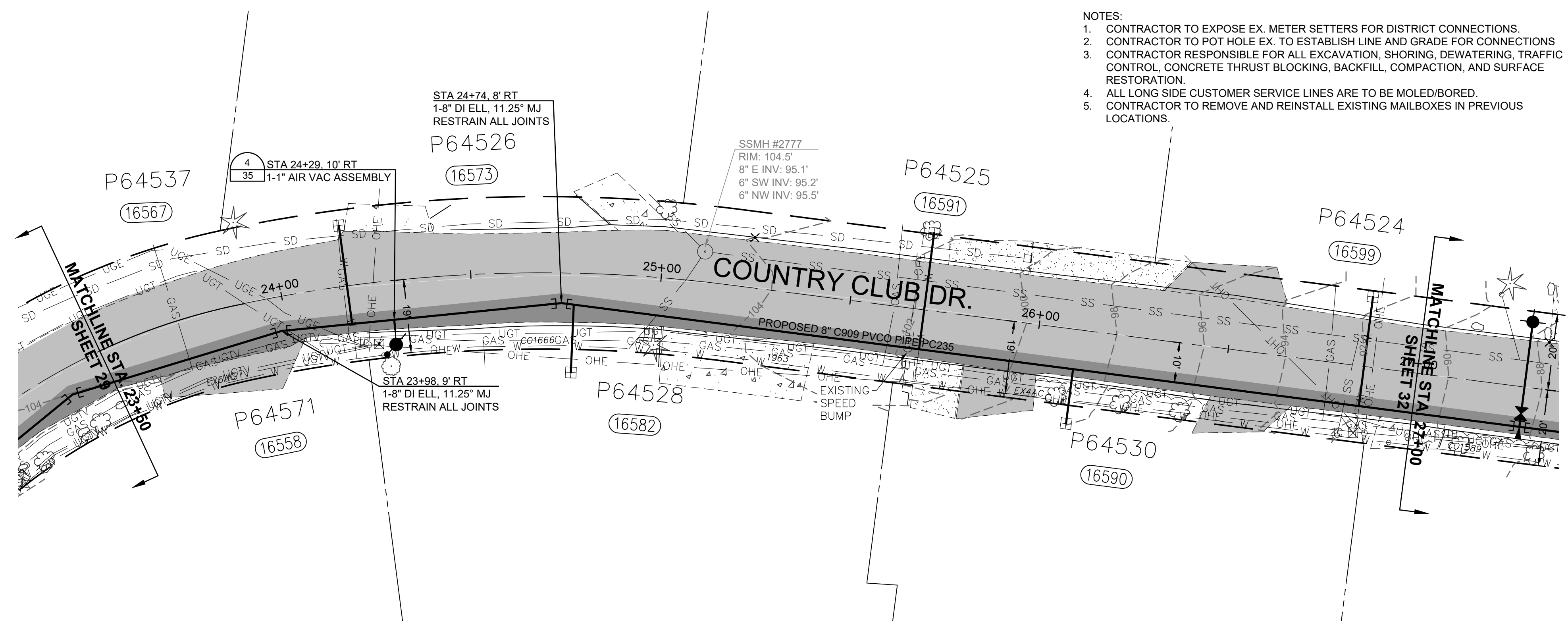
DATUM: HOR: NAD 83 VERT: NAVD 88	DSGN BY: CAS DWN BY: JLB APPVD BY: MCH
DATE PRINTED: 10/31/23	SEC: 2 TWP: 34 N RGE: 3 E



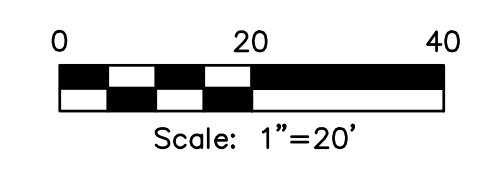
PUBLIC UTILITY DISTRICT
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Mount Vernon, WA 98273
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www.SkagitPud.org

SKAGIT COUNTRY CLUB PIPELINE
REPLACEMENT PROJECT
COUNTRY CLUB DR CUL DE SAC
PLAN AND PROFILE
STA 70+25 TO STA 71+91

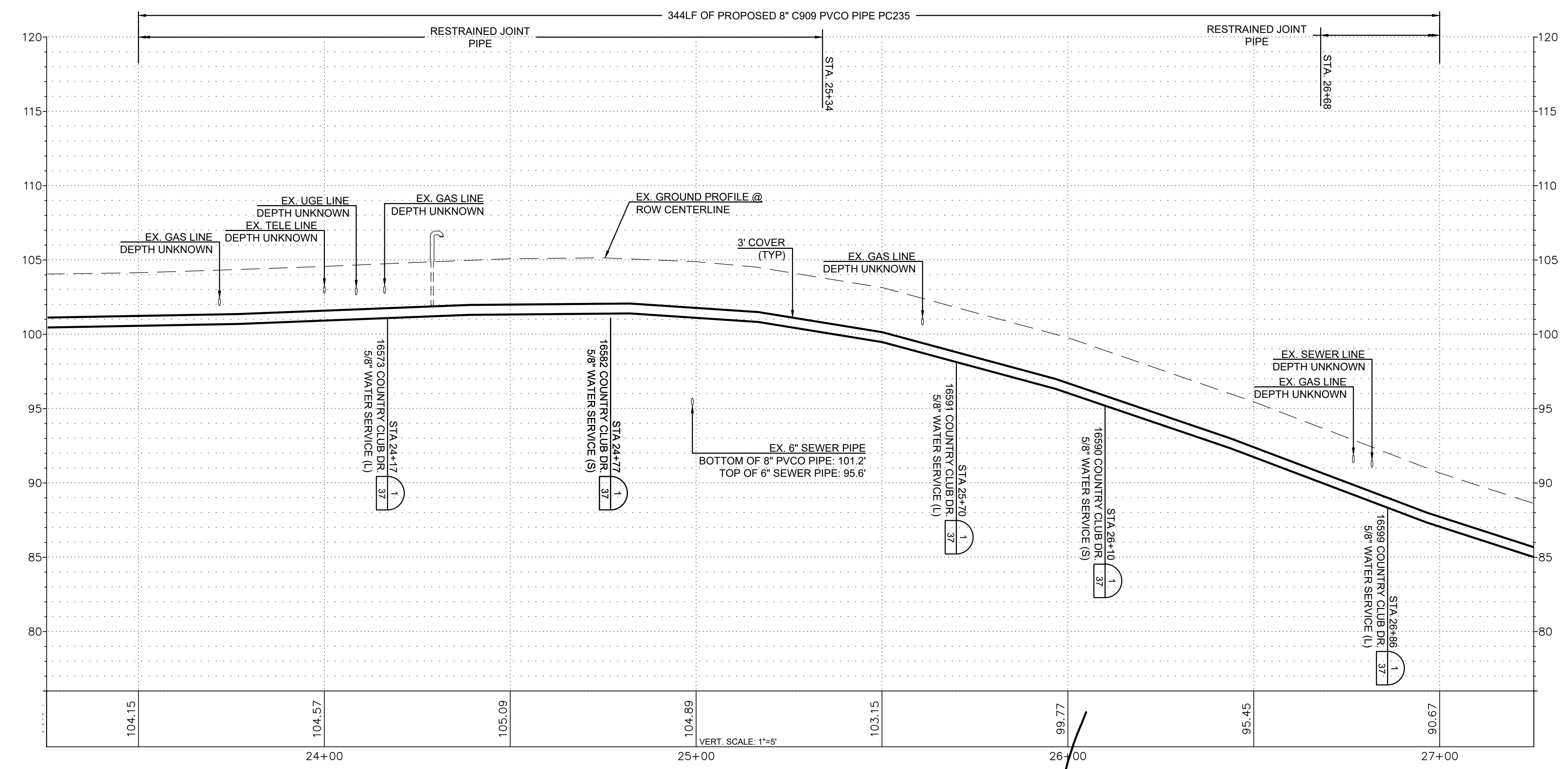
SCALE: 1"=20'	P.N. 03737	SHEET: 30 OF 37
	C.O. 5018	



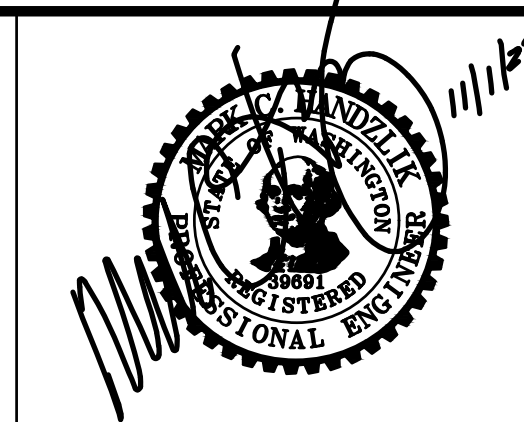
- NOTES:
1. CONTRACTOR TO EXPOSE EX. METER SETTERS FOR DISTRICT CONNECTIONS.
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RENEW SERVICES AT	
STA	ADDRESS
24+17	16573 COUNTRY CLUB DR
24+77	16582 COUNTRY CLUB DR
25+70	16591 COUNTRY CLUB DR
26+10	16590 COUNTRY CLUB DR
26+86	16599 COUNTRY CLUB DR



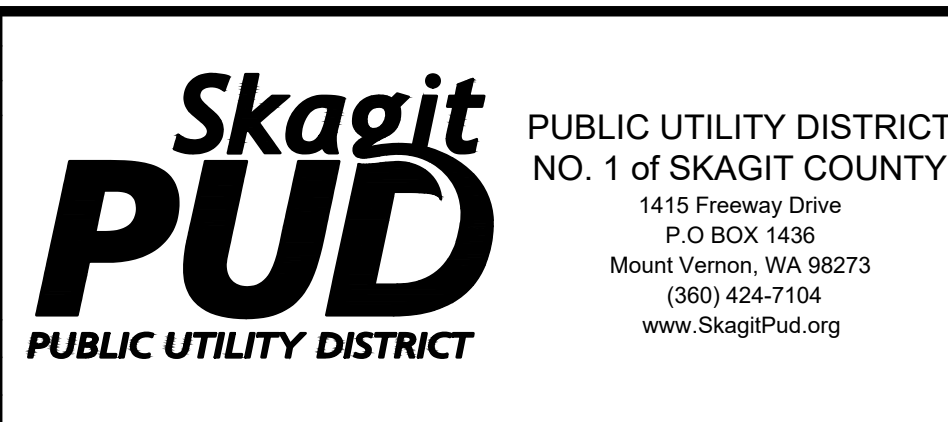
ISSUE	REVISIONS	BY	DATE
1.	60% DESIGN	MCH	5/1/23
2.	90% DESIGN	MCH	7/19/23
3.	ISSUED FOR BIDDING	MCH	10/31/23



DATUM:
HOR: NAD 83
VERT: NAVD 88

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

DATE PRINTED: 10/31/23
SEC: 2
TWP: 34 N
RGE: 3 E



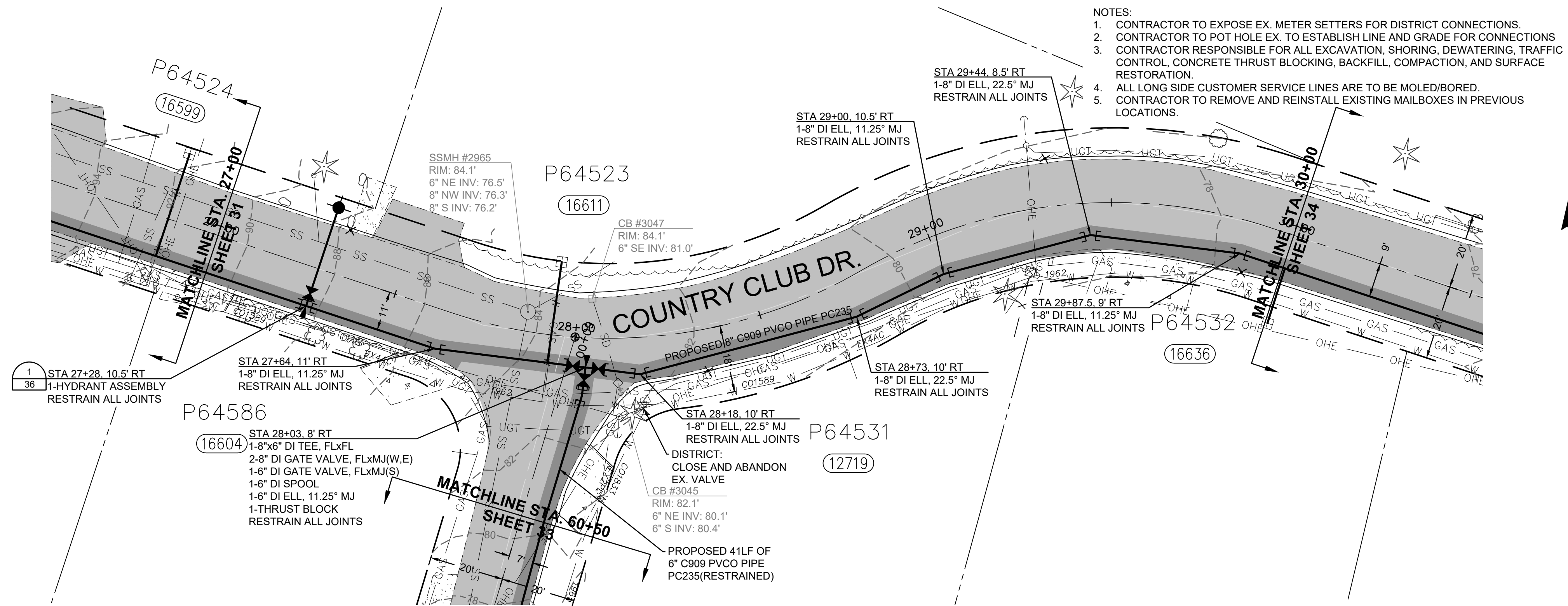
SKAGIT COUNTRY CLUB PIPELINE REPLACEMENT PROJECT

COUNTRY CLUB DR
PLAN AND PROFILE
STA 23+50 TO STA 27+00

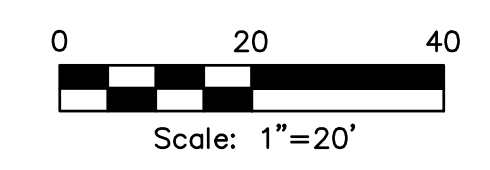
SCALE: 1"=20'

P.N. 03737
C.O. 5018

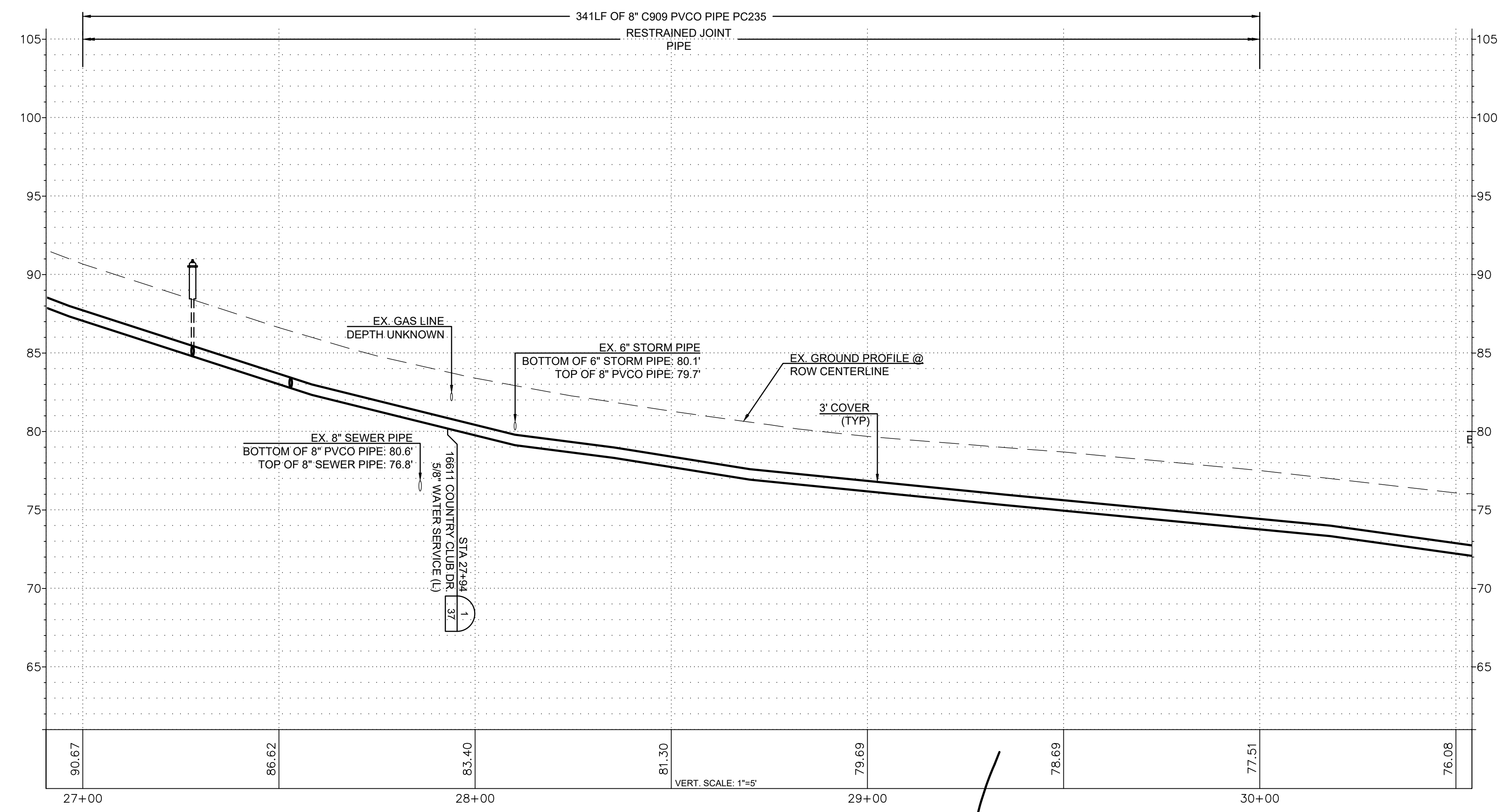
SHEET: 31 OF 37



- NOTES:
1. CONTRACTOR TO EXPOSE EX. METER SETTERS FOR DISTRICT CONNECTIONS.
 2. CONTRACTOR TO POT HOLE EX. TO ESTABLISH LINE AND GRADE FOR CONNECTIONS
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RENEW SERVICES AT	
STA	ADDRESS
27+94	16611 COUNTRY CLUB DR



ISSUE	REVISIONS	BY	DATE
1.	60% DESIGN	MCH	5/1/23
2.	90% DESIGN	MCH	7/19/23
3.	ISSUED FOR BIDDING	MCH	10/31/23



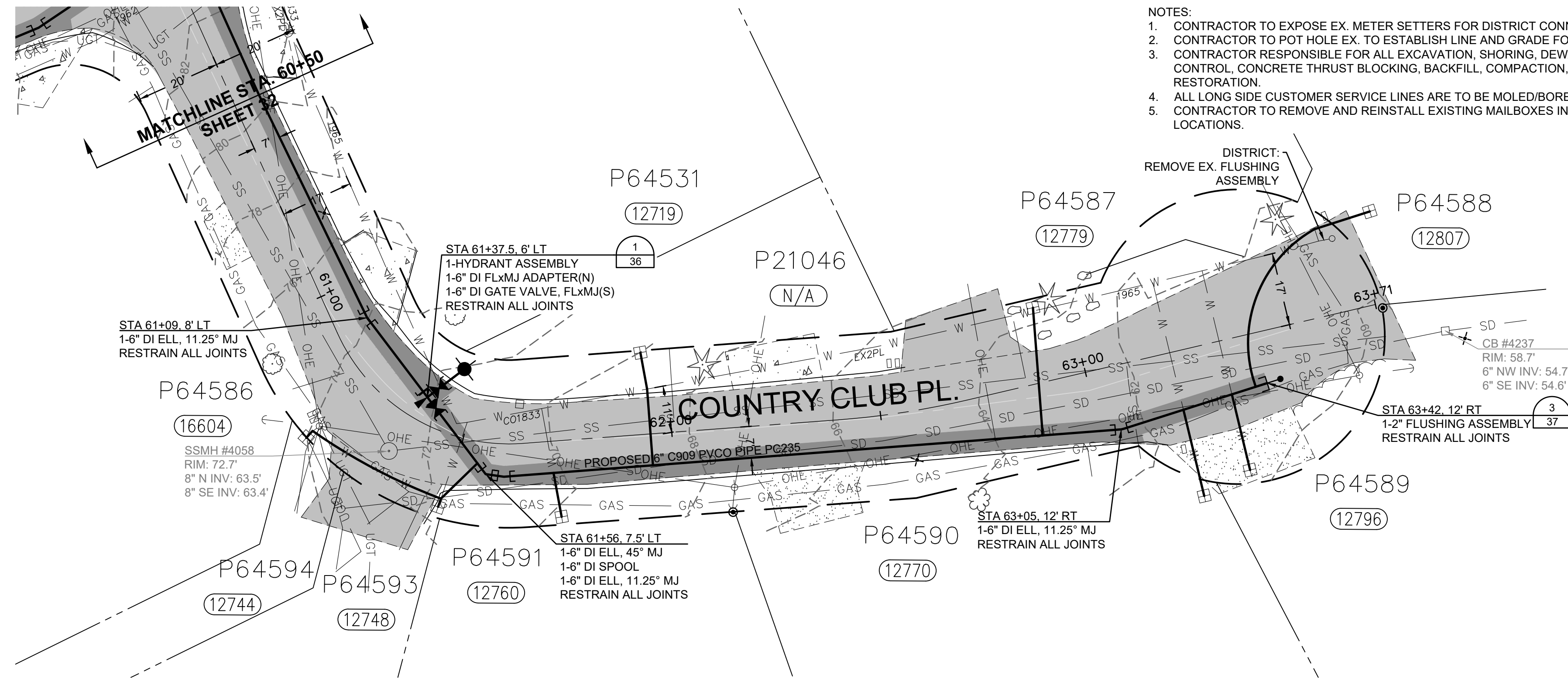
DATUM: HOR: NAD 83 VERT: NAVD 88	DSGN BY: CAS DWN BY: JLB APPVD BY: MCH
DATE PRINTED: 10/31/23	SEC: 2 TWP: 34 N RGE: 3 E



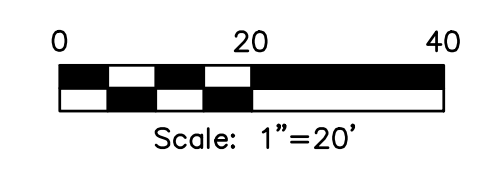
PUBLIC UTILITY DISTRICT
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SKAGIT COUNTRY CLUB PIPELINE
REPLACEMENT PROJECT
COUNTRY CLUB DR
PLAN AND PROFILE
STA 27+00 TO STA 30+00

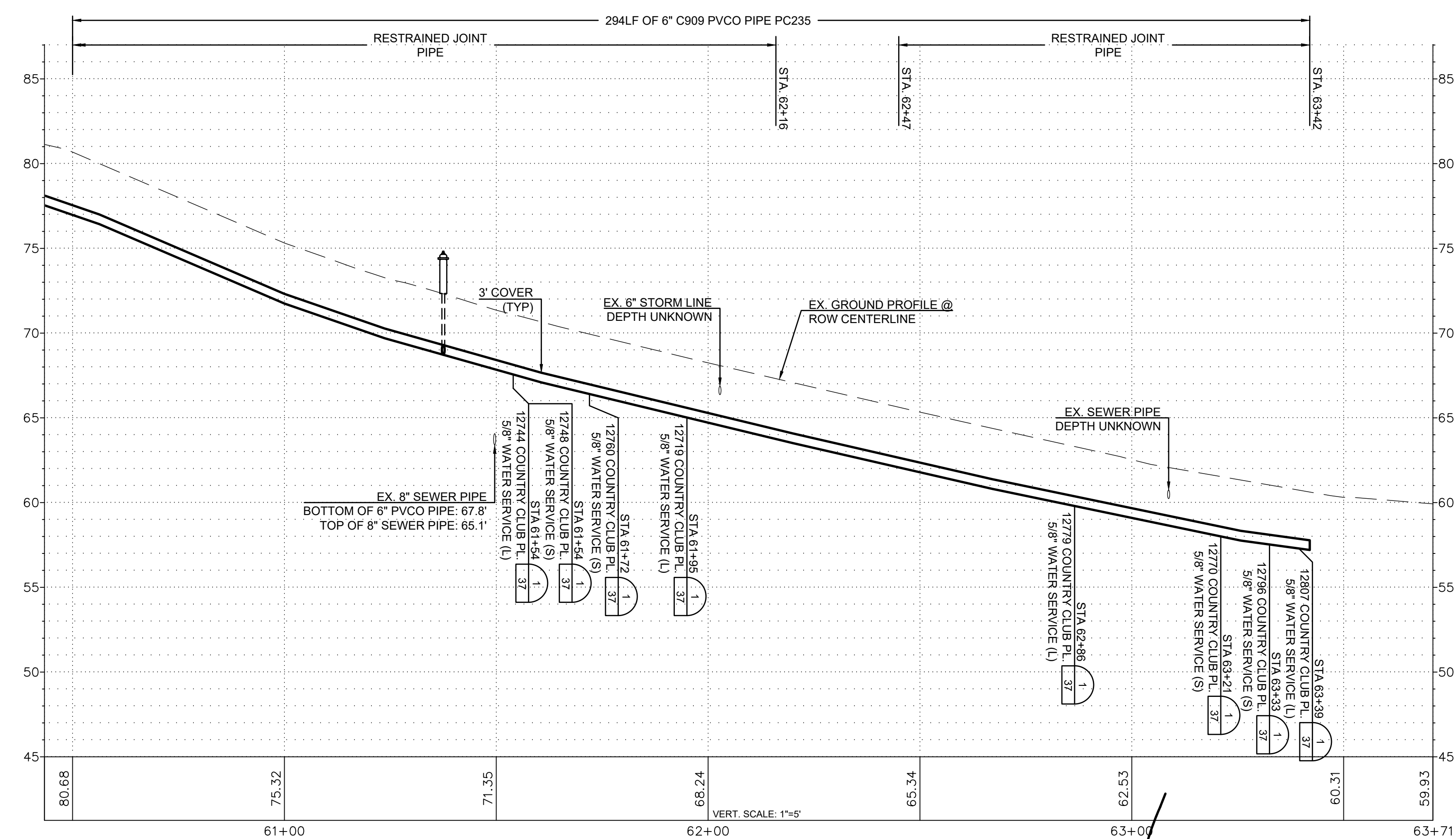
SCALE: 1"=20'	P.N. 03737	SHEET:
	C.O. 5018	32 OF 37



- NOTES:
1. CONTRACTOR TO EXPOSE EX. METER SETTERS 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 REMOVE AND REINSTALL EXISTING MAILBOXES IN PREVIOUS LOCATIONS.



RENEW SERVICES AT	
STA	ADDRESS
61+23	12744 COUNTRY CLUB PL
61+49	12748 COUNTRY CLUB PL
61+72	12760 COUNTRY CLUB PL
61+94	12719 COUNTRY CLUB PL
62+91	12779 COUNTRY CLUB PL
63+21	12770 COUNTRY CLUB PL
63+33	12796 COUNTRY CLUB PL
63+75	12807 COUNTRY CLUB PL



ISSUE	REVISIONS	BY	DATE
1.	60% DESIGN	MCH	5/1/23
2.	90% DESIGN	MCH	7/19/23
3.	ISSUED FOR BIDDING	MCH	10/31/23



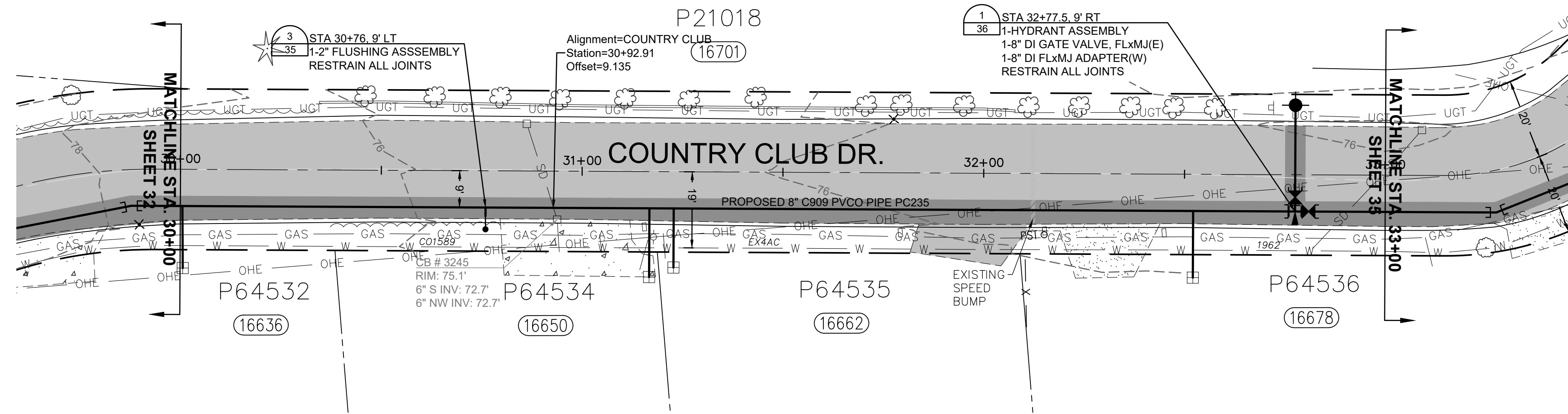
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DATE PRINTED: 10/31/23	SEC: 2 TWP: 34 N RGE: 3 E



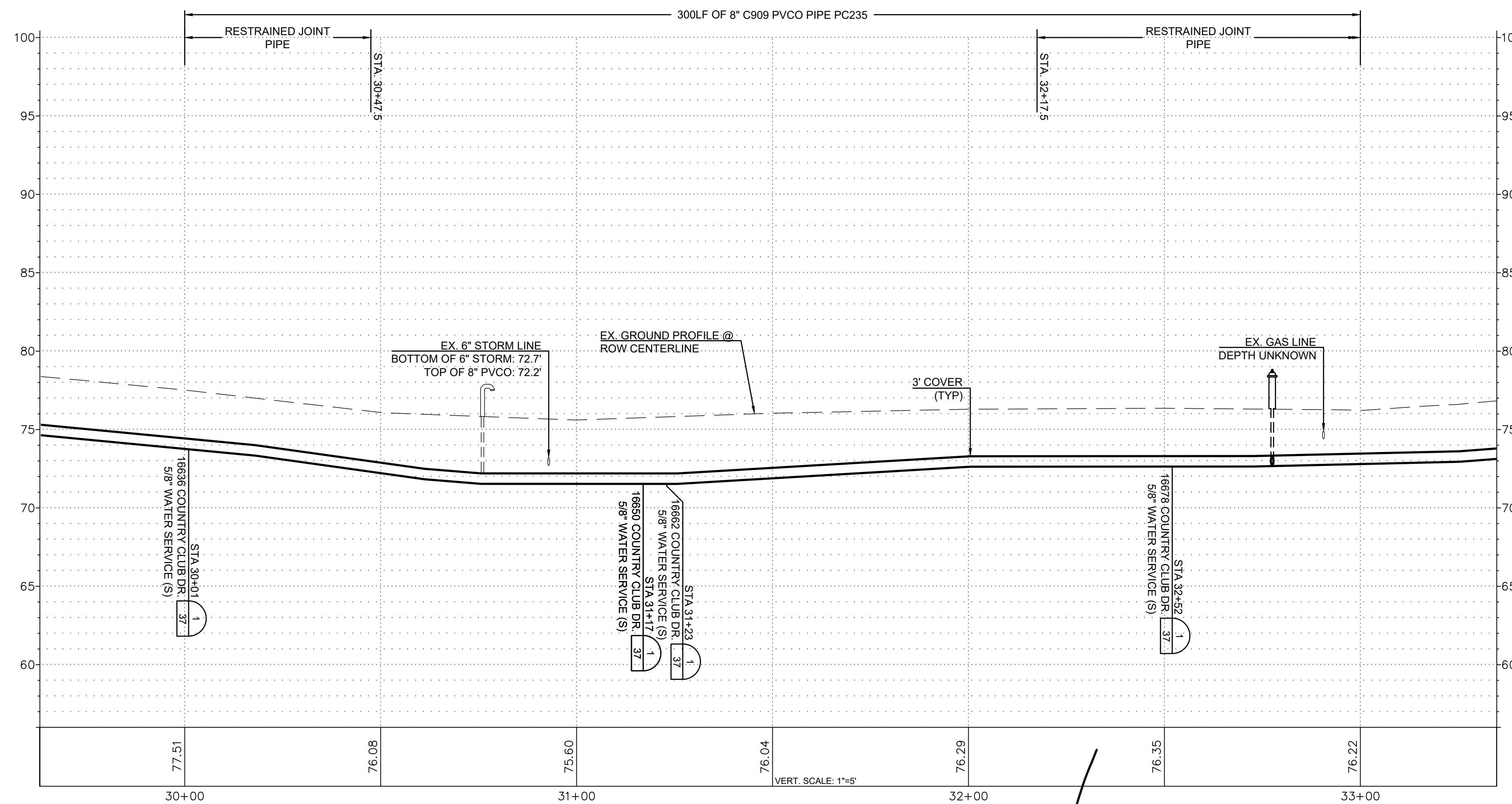
PUBLIC UTILITY DISTRICT
NO. 1 of SKAGIT COUNTY
1415 Freeway Drive
P.O. BOX 1436
Mount Vernon, WA 98273
(360) 424-7104
www.SkagitPud.org

SKAGIT COUNTRY CLUB PIPELINE REPLACEMENT PROJECT	
COUNTRY CLUB PL PLAN AND PROFILE STA 60+50 TO STA 63+71	
SCALE: 1"=20'	P.N. 03737 C.O. 5018
SHEET: 33 OF 37	

- NOTES:
1. CONTRACTOR TO EXPOSE EX. METER SETTERS 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 REMOVE AND REINSTALL EXISTING MAILBOXES IN PREVIOUS LOCATIONS.



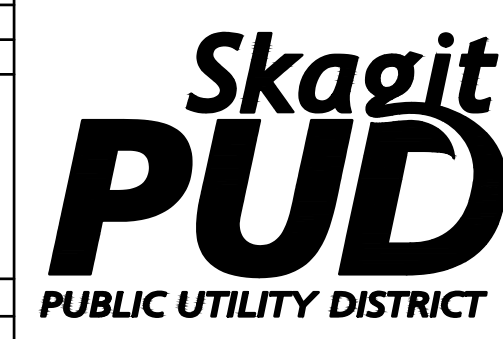
RENEW SERVICES AT	
STA	ADDRESS
30+01	16636 COUNTRY CLUB DR
31+17	16650 COUNTRY CLUB DR
31+23	16662 COUNTRY CLUB DR
32+52	16678 COUNTRY CLUB DR



ISSUE	REVISIONS	BY	DATE
1.	60% DESIGN	MCH	5/1/23
2.	90% DESIGN	MCH	7/19/23
3.	ISSUED FOR BIDDING	MCH	10/31/23



DATUM: HOR: NAD 83 VERT: NAVD 88	DSGN BY: CAS DWN BY: JLB APPVD BY: MCH
DATE PRINTED: 10/31/23	SEC: 2 TWP: 34 N RGE: 3 E

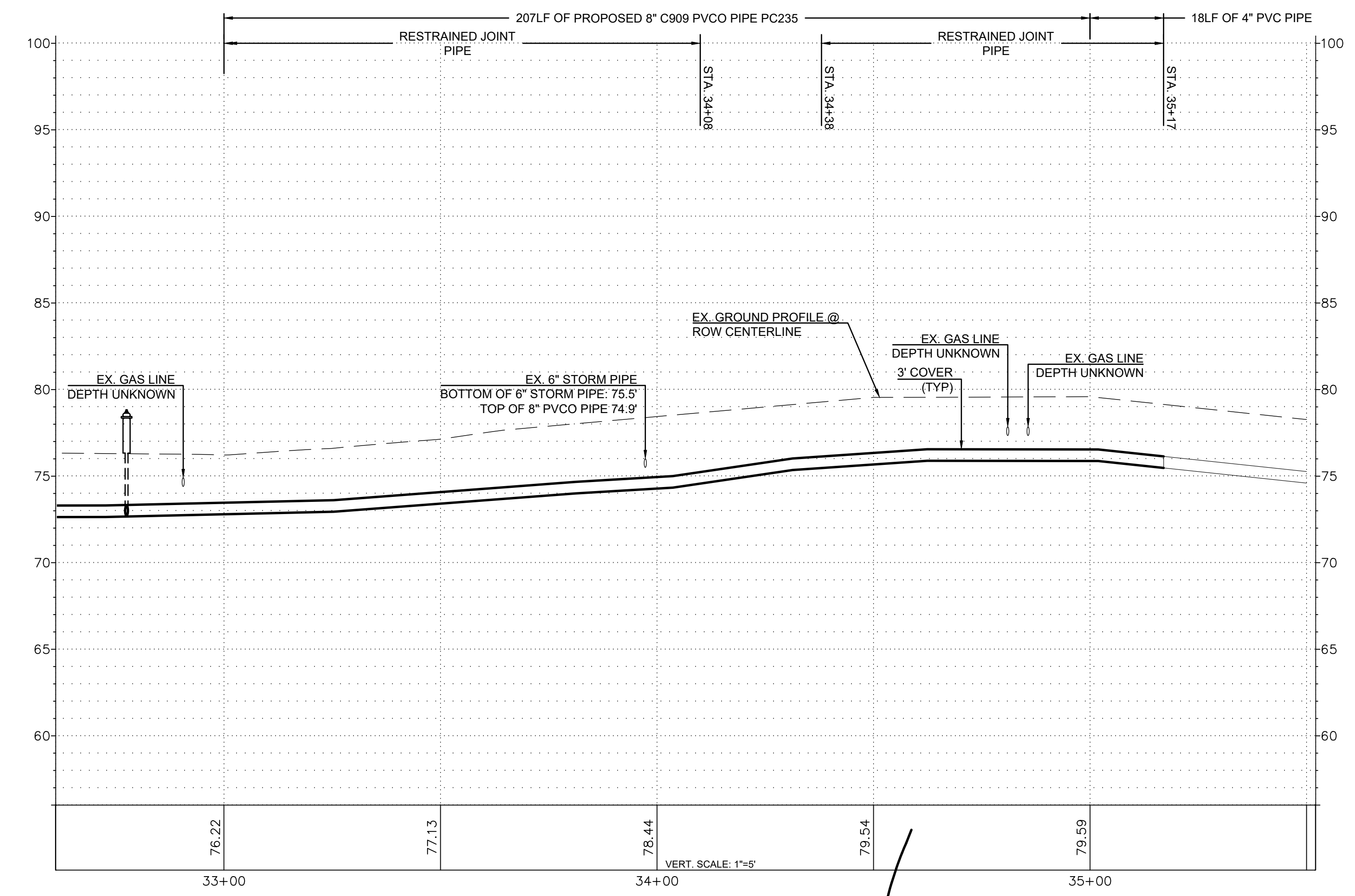
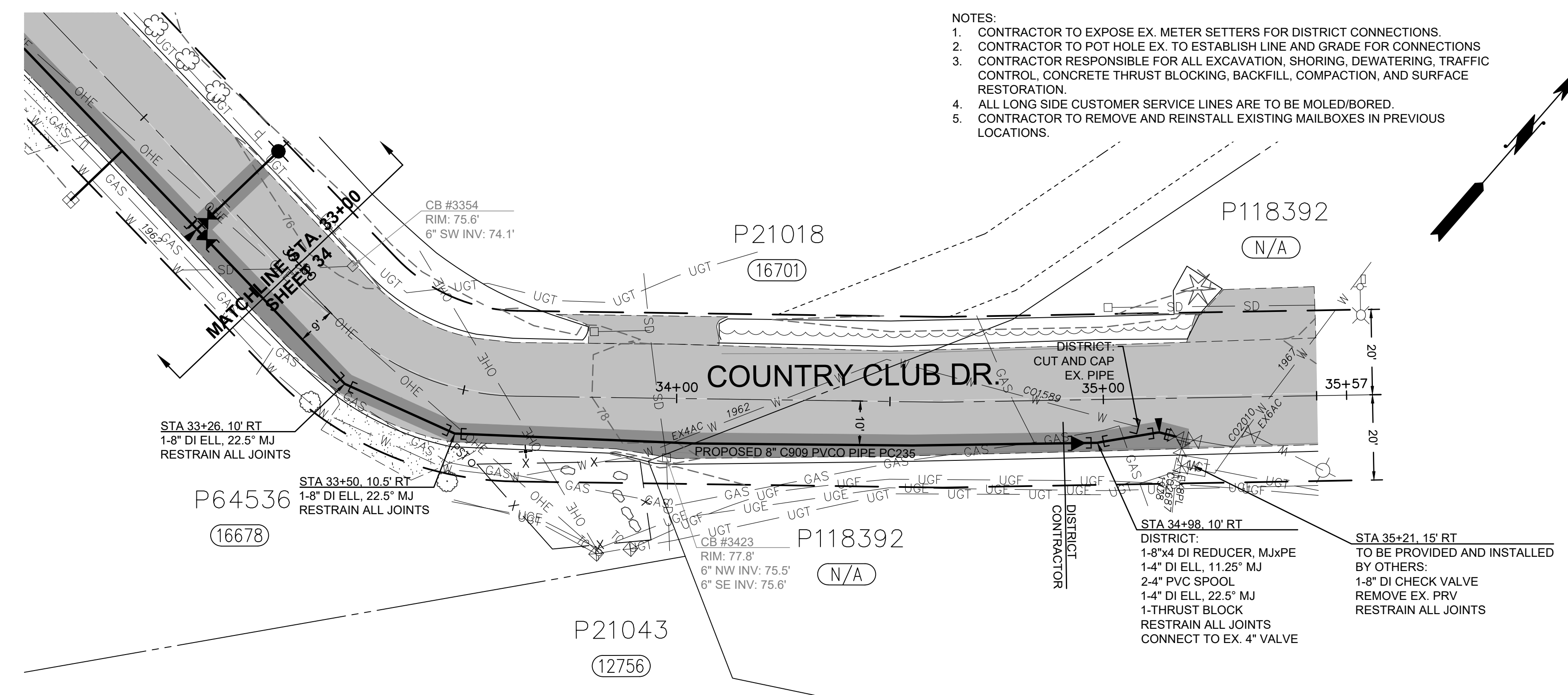
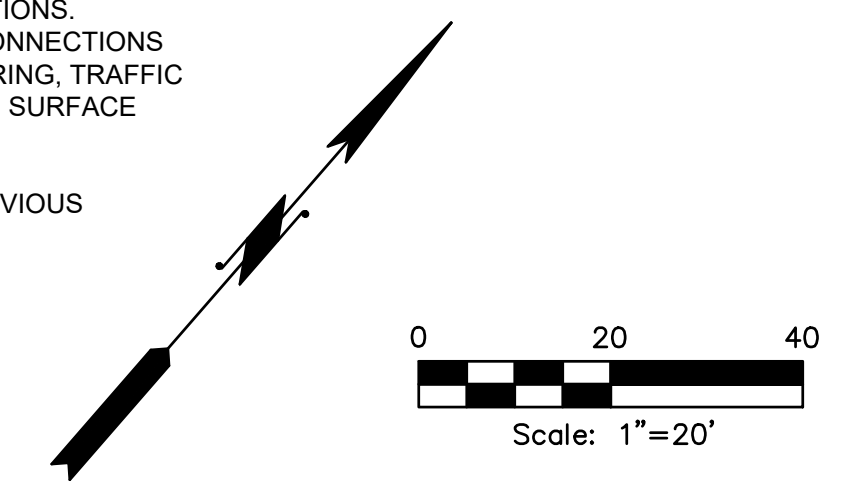


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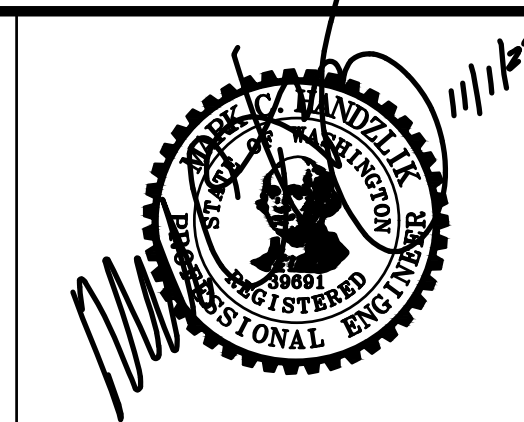
SKAGIT COUNTRY CLUB PIPELINE
REPLACEMENT PROJECT
COUNTRY CLUB DR
PLAN AND PROFILE
STA 30+00 TO STA 33+00

SCALE: 1"=20'	P.N. 03737	SHEET: 34 OF 37
	C.O. 5018	

- NOTES:
1. CONTRACTOR TO EXPOSE EX. METER SETTERS 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 REMOVE AND REINSTALL EXISTING MAILBOXES IN PREVIOUS LOCATIONS.



ISSUE	REVISIONS	BY	DATE
1.	60% DESIGN	MCH	5/1/23
2.	90% DESIGN	MCH	7/19/23
3.	ISSUED FOR BIDDING	MCH	10/31/23



DATUM:
HOR: NAD 83
VERT: NAVD 88

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

DATE PRINTED: 10/31/23
SEC: 2
TWP: 34 N
RGE: 3 E

Skagit PUD
PUBLIC UTILITY DISTRICT

PUBLIC UTILITY DISTRICT
NO. 1 of SKAGIT COUNTY
1415 Freeway Drive
P.O. BOX 1436
Mount Vernon, WA 98273
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SKAGIT COUNTRY CLUB PIPELINE
REPLACEMENT PROJECT

COUNTRY CLUB DR
PLAN AND PROFILE
STA 33+00 TO STA 35+57

SCALE: 1"=20'

P.N. 03737
C.O. 5018

SHEET:
35 OF 37

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

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

STANDARD WV-1a

APPROVED ON: MAY 6, 2014

PUD NO. 1 OF SKAGIT COUNTY ENGINEERING MANAGER

BILL OF MATERIALS

NO.	DESCRIPTION	REQD.
1	TEE WITH FLANGED BRANCH	1
2	6" VALVE WITH FLANGES CONNECTIONS (SEE NOTE 6)	1
3	CASING OF 6" PVC SENE PIPE	1
4	PIPE OF CLASS 50 DUCTILE IRON, FIELD CUT	1
5	FIRE HYDRANT WITH PUMPER PORT, GLOW MEDALLION, OR AS APPROVED BY JURISDICTIONAL FIRE DEPARTMENT DISTRICT	1
6	VALVE BOX, CAST IRON OLYMPIC FOUNDRY 16007/SKAGIT (SEE P.I.U.O. DETAIL)	1
7	BLOCK, PRECAST CONCRETE, SEE NOTE 8	1
8	FABRIC, GEOTEXTILE, NON-WOVEN (WEIGHT 140Z/SM ²)	1
9	1 1/4" CY DRAM ROCK, 1-1/2" - 3/4", NO FINES	2
10	1/2" - 1/4" DIA. 27 GPH RING 8"	2
11	HYDRANT ADAPTER, STORZ STYLE S-37 W/SC CAP & CABLE, 5/8" PCT	1

NOTES:

- ALL MATERIALS AND BRANDS MUST BE APPROVED BY P.U.D.
- BLOCK TEE AND HYDRANT WITH PUMPER PORT ON ALL WATER MAINS OTHER THAN DUCTILE IRON AND ON ALL TAPPING SLEEVES AS REQUIRED PER DISTRICT BLOCKING DETAIL. IN ADDITION, 6" MEGALUGS (OR APPROVED EQUIVALENT) ARE TO BE INSTALLED AT VALVE AND HYDRANT W.A. OUTLETS. RESTRAIN ANY JOINTS IN THE PIPELINE WITH "FIELD LUG" GASKETS (OR APPROVED EQUIVALENT) INSTALLED IN THE BELLS OF TYTON JOINT PIPE OR "MEGALUGS" ON WALL BELLS.
- NO THURST BLOCK REQUIRED BEHIND TEE OR 45° DUCTILE IRON OR LARGER MAINS.
- PROTECTIVE BARRIER POSTS MUST BE NECESSARY AT SOME HYDRANT INSTALLATIONS. CONTACT FIRE DEPARTMENT/DISTRICT FOR SPECIFIC REQUIREMENTS.
- HYDRANT LENGTH AND TRENCH DEPTH SHALL BE 50 AS TO PROMOTE FOR HYDRANT SETTING AT 2" MIN. AND 6" MAX. ELEVATION ABOVE FINISH GRADE.
- SET HYDRANT VERTICAL, USE LEVEL, COMPACT ALL BACKFILL.
- VALVE SHALL BE AWWA STANDARD GATE, "O" RING GASKET, 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 ROD. TAKE CARE TO NOT PLUG DRAIN HOLES OR CONTAMINATE DRAIN ROD.
- SET MINIMUM 1" SLOTTED CONCRETE SUPPORT RIGHT UP UNDER VALVE AND HYDRANT.
- HYDRANT BARREL, LEAD, TEE, AND VALVE MUST BE WRAPPED WITH POLYETHYLENE PIPE EXHAUSTION 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 95%.

STANDARD INSTALLATION OF FIRE HYDRANT "CENTER STEM TYPE"

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

STANDARD WH-1a

APPROVED ON: MAY 6, 2014

PUD NO. 1 OF SKAGIT COUNTY ENGINEERING MANAGER

HORIZONTAL THRUST BLOCKING DETAILS

SCALE: NTS
DATE: 3-05-05
REVISED: 5/6/14
DRAWN BY: CAS
APPROVED BY: GJS

STANDARD WT-1

APPROVED ON: MAY 6, 2014

PUD NO. 1 OF SKAGIT COUNTY ENGINEERING MANAGER

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 ASPHALTIC 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, USE A PIECE OF 8-INCH PVC PLASTIC SENE 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 CAPPED 3/4-INCH PIPE, THOROUGHLY POUND THE EARTH ALL AROUND THE CASING PIPE TO OBTAIN MAXIMUM EARTH COMPACTION.
- 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 WIGGLE. REMOVE THE BOX AND ADJUST THE CRUSHED ROCK AS OFTEN AS NECESSARY TO ACHIEVE EXACT GRADE WITH PAVEMENT AND UNIFORM BOX SUPPORT. PUT CAST BOX 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 5/8-INCH MINUS CRUSHED ROCK UNIFORMLY IN THE SPACE BETWEEN THE VALVE BOX AND OUTSIDE EARTH WALL IN MAXIMUM 4-INCH LIFTS. COMPACT EACH LIFT COMPLETELY WITH 1-INCH ROD OR PIPE AS BEFORE. FILL AND COMPACT THE SPACE UP TO 2 INCHES BELOW FINISHED PAVEMENT GRADE.
- 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.
- APPLICATION OF THIS TACK COAT AND PROVIDE A NEAT SEAL SURFACE.
- USING A BRUSH, PAINT THE SURFACE OF THE PATCH WITH ASPHALT TACK MATERIAL EXTENDING MINIMUM OF 1 INCH OVER PAVEMENT AND ONTO 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 TOWER, RISE, OR BREAK OUT UNDER TRAFFIC BEATING.

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

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

STANDARD WV-1b

APPROVED ON: MAY 6, 2014

PUD NO. 1 OF SKAGIT COUNTY ENGINEERING MANAGER

STANDARD INSTALLATION OF FIRE HYDRANT "CENTER STEM TYPE"

SCALE: NTS
DATE: 3-25-05
REVISED: 5/27/14
DRAWN BY: KDM
APPROVED BY: GJS

STANDARD WH-1b

APPROVED ON: MAY 16, 2014

PUD NO. 1 OF SKAGIT COUNTY ENGINEERING MANAGER

TYPICAL TRENCH RESTORATION SECTION FOR SKAGIT COUNTY

SCALE: 1" = 1'
REVISED: 5/30/19
DRAWN BY: KDM

STANDARD

ISSUE	REVISIONS	BY	DATE
1.	60% DESIGN	MCH	5/1/23
2.	90% DESIGN	MCH	7/19/23
3.	ISSUED FOR BIDDING	MCH	10/31/23



DATUM:
HOR: NAD 83
VERT: NAVD 88

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

DATE PRINTED: 10/31/23
SEC: 2
TWP: 34 N
RGE: 3 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

SKAGIT COUNTRY CLUB PIPELINE REPLACEMENT PROJECT

DETAILS

SCALE: NONE

P.N. 03737
C.O. 5018

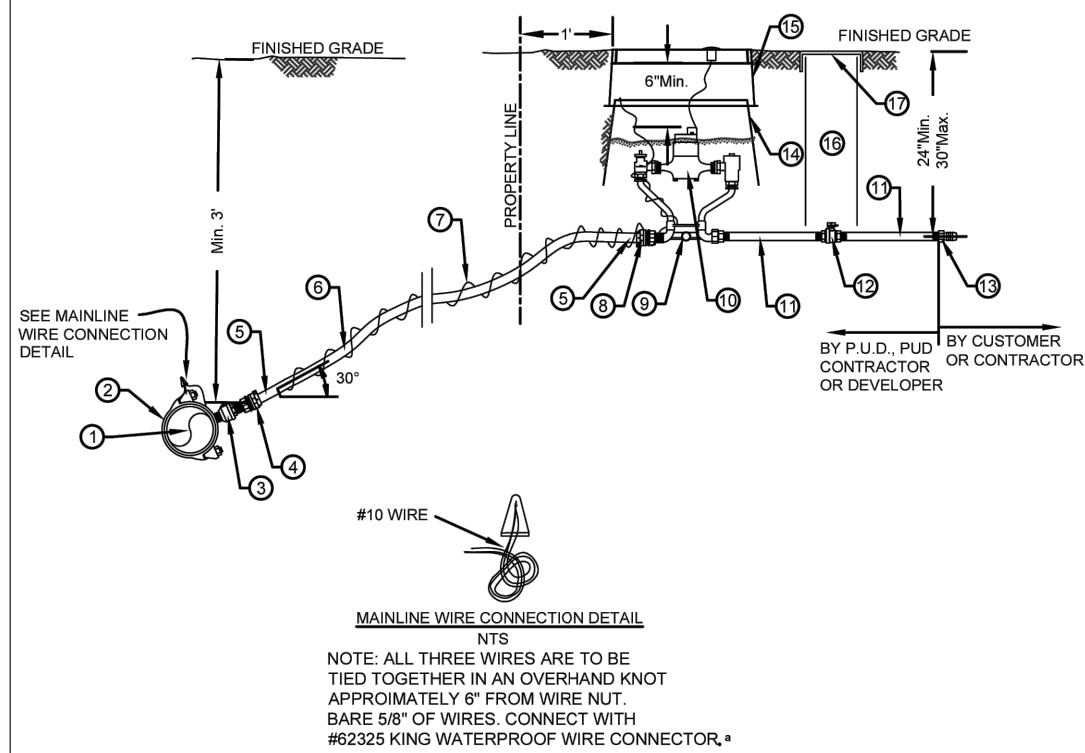
SHEET: 36 OF 37

BILL OF MATERIALS			
NO.	NOMENCLATURE	REQD.	RECD.
1	WATER MAIN	1	1
2	CLAMP, SERVICE, DOUBLE STRAP X 1" I.P.T., ALL BRASS, (FORD #2029)	1	1
3	CORP. 1", (FORD #B500-4)	1	1
4	ADAPTER BRASS PAC JOINT, 1" F.I.P.T. x 1" COP (FORD #C144-NL)	1	1
5	INSERT, STIFFENER, 3/4" (FORD #71)	2	1
6	PIPE, 1" REHAU MUNIPEX TYPE A, 200 P.S.I.	1	1
7	WIRE, #10 SOLID COPPER, BLUE COATED, EXTEND MIN. 18" INTO BOX, NEAR LID	1	1
8	ADAPTER BRASS PAC JOINT, 1" M.I.P.T. x 1" COP (FORD #C344-NL)	1	1
9	COPPERSETTER, 3/4" (FORD #WBH72-9M-11-44-NL-FF) W/1" DBL PURPOSE UNION SWIVELS	1	1

NOTES

- CORP TO BE IN FULL OPEN POSITION BEFORE BACKFILL.
- INSTALL SERVICE LINE PERPENDICULAR TO MAIN UNLESS OTHERWISE SHOWN ON WATER CONSTRUCTION PLAN.
- SERVICE LINE IS TYPICALLY 1" TO NORTH OR WEST OF PROPERTY CORNER OR AS OTHERWISE SPECIFIED.
- PUID OWNERSHIP ENDS AT THE METER AND METER BOX. WATER SERVICES TO BE CONNECTED TO AN ACTIVE WATERLINE ARE REQUIRED TO BE INSTALLED BY P.U.D. WATER SERVICES. INSTALL WITH A NEW WATERLINE OR WATERLINE EXTENSION WILL BE PERFORMED BY THE CONTRACTOR/DEVELOPER PRIOR TO CONNECTION OF THE NEW WATERLINE TO THE PUD SYSTEM. THE PUD IS REQUIRED TO SET ALL METERS. IF A NEW WATER SERVICE IS INSTALLED BY THE PUD, PUD WILL INCLUDE THE PRIVATE SHUT-OFF VALVE AFTER THE METER. AFTER INSTALLATION THE OWNER IS RESPONSIBLE FOR ALL FUTURE MAINTENANCE, REPAIR AND REPLACEMENT OF THE PRIVATE SHUT-OFF VALVE.
- METER IS NOT INSTALLED IN COPPERSETTER. INSTALL A PVC NIPPLE BETWEEN METER CONNECTIONS. IF CONNECTION IS NOT MADE TO CUSTOMER'S PLUMBING, INSTALL A WATERTIGHT WRAP OF ELECTRICAL TAPE OVER END OF ADAPTER(13). SET COPPERSETTER FLUSH, PLUMBS AND CENTERED IN BOX.
- FLUSH OUT SERVICE TUBING AND COPPERSETTER BEFORE INSTALLING METER. DO NOT ALLOW MUD OR FOREIGN MATERIAL TO ENTER ANY TUBING OR FITTINGS.
- FILL BOX WITH FINE DIRT TO TOP OF METER.
- IF THE METER BOX IS LOCATED IN ASPHALT OR CONCRETE AREA, A TRAFFIC BOX, CARSON 1324-2520 W/COVER 1324-4206 WILL BE REQUIRED. NOT FOR THROUGH-WAY TRAFFIC APPLICATIONS.
- IF THERE IS PETROLEUM-BASED CONTAMINATED SOIL PRESENT, THE SERVICE PIPELINE SHALL BE OF TYPE K COPPER WITH BRASS AND COPPER FITTINGS.
- IF SERVICE LINE HAS LESS THAN 2' OF COVER, CONTACT DISTRICT ENGINEERING DEPARTMENT FOR FREEZE PROTECTION REQUIREMENTS.
- BACKFLOW PROTECTION AT THE SERVICE CONNECTION IS REQUIRED FOR NON-RESIDENTIAL, AGRICULTURAL, AND IRRIGATION USES, ON LARGE SIZED PROPERTIES, PROPERTIES WITH EXITING WELLS AND BOOSTER/SEWAGE PUMPS, AND IN OTHER SITUATIONS AS DESCRIBED IN THE DISTRICT'S CROSS CONNECTION CONTROL MANUAL.

ALL BRASS FITTINGS TO BE LEAD FREE DOMESTIC BRASS



PUD NO. 1 OF SKAGIT COUNTY ENGINEERING MANAGER

APPROVED ON: SEPTEMBER 9, 2022

Skagit PUD PUBLIC UTILITY DISTRICT

STANDARD

1 STANDARD INSTALLATION OF SINGLE 5/8" OR 3/4" METERED SERVICE WITH 200 P.S.I. REHAU SERVICE LINE

SCALE: 1" = 2'

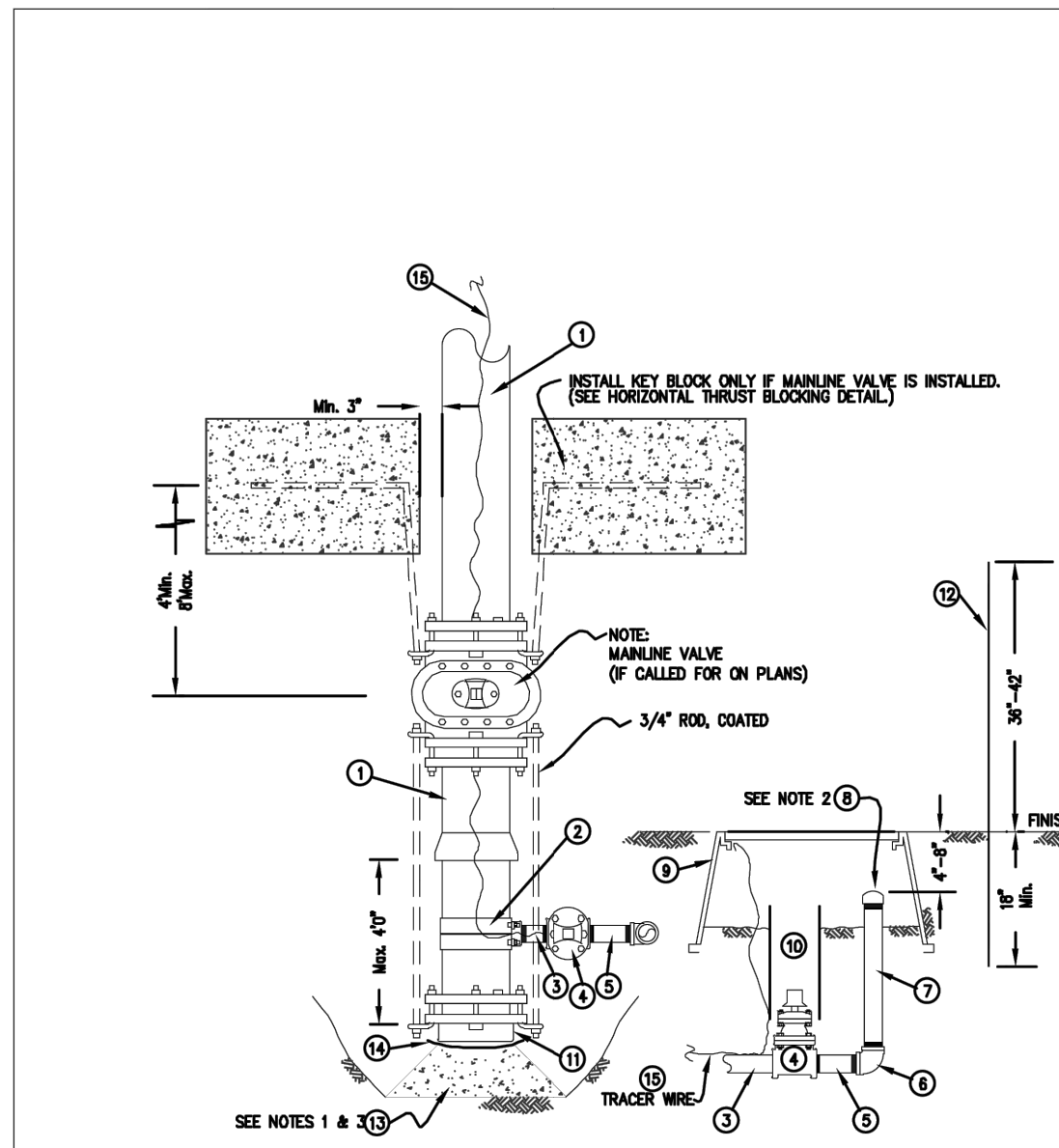
DATE: 11/14/14

REVISED: 9/8/22

DRAWN BY: KAN

APPROVED BY: MCH

WS58-1



BILL OF MATERIALS			
NO.	NOMENCLATURE	REQD.	RECD.
1	WATER MAIN (6" Ø, OR 8")	1	1
2	CLAMP, SERVICE, DOUBLE STRAP X 2" I.P.T., ALL BRASS, (FORD #2029)	1	1
3	NIPPLE, 2" X 1" BRASS	1	1
4	NIPPLE, 2" X 1" GALVANIZED	1	1
5	NIPPLE, 2" X 1" GALVANIZED	1	1
6	PIPE, 2" GALVANIZED, THREAD BOTH ENDS	1	1
7	TRAFIC WATER METER BOX AND LID (MID-STATES PLASTIC, INC. MSBFC 1324-18 NOT FOR THROUGH-WAY TRAFFIC APPLICATIONS)	1	1
8	CAP, 2" PLASTIC, THREADED	1	1
9	CASING, 1" PVC, SEWER PIPE	1	1
10	CASING, 1" PVC, SEWER PIPE	1	1
11	CAP, 1.5" BLIND	1	1
12	WASHER, BLUE CARBONITE, 1/2"-11/16"	1	1
13	NIPPLE, 1/2" X 1/2" (IF REQUIRED)	1	1
14	POLYETHYLENE SHEETING, 6 MIL THICKNESS	1	1
15	PIPE, 1/2" SOLID COPPER, BLUE COATED, EXTEND MIN. 18" INTO BOX, NEAR LID	1	1

NOTES:

- BLOCK AS PER P.U.D. HORIZONTAL THRUST BLOCKING DETAIL. BEARING AREA TO BE AGAINST UNDISTURBED EARTH AND TO BE DETERMINED BY THE ENGINEER. USE FORMING AS NECESSARY TO PREVENT CONCRETE FROM INTERFERING WITH CAP (#1), CLAMP (#2) OR VALVE (#4).
- PLASTIC THREADED CAP (#8) TO BE HAND TIGHT ONLY.
- IF A MAINLINE VALVE IS INSTALLED UPSTREAM OF FLUSHING ASSEMBLY, KEY BLOCK VALVE AND CAP, SEE THRUST BLOCKING DETAIL.
- KEY BLOCK TO BE INSTALLED ONLY IF PIPE IS EXPECTED TO EXCEED WITHIN TEN (10) YEARS OF INSTALLATION. SEE HORIZONTAL THRUST BLOCKING DETAIL.

PUD NO. 1 OF SKAGIT COUNTY ENGINEERING MANAGER

APPROVED ON: MAY 6, 2014

Skagit PUD PUBLIC UTILITY DISTRICT

STANDARD

3 2-INCH FLUSHING ASSEMBLY

SCALE: 1" = 2'

DATE: 3-25-05

REVISED: 5/9/14

DRAWN BY: CAS

APPROVED BY: GJS

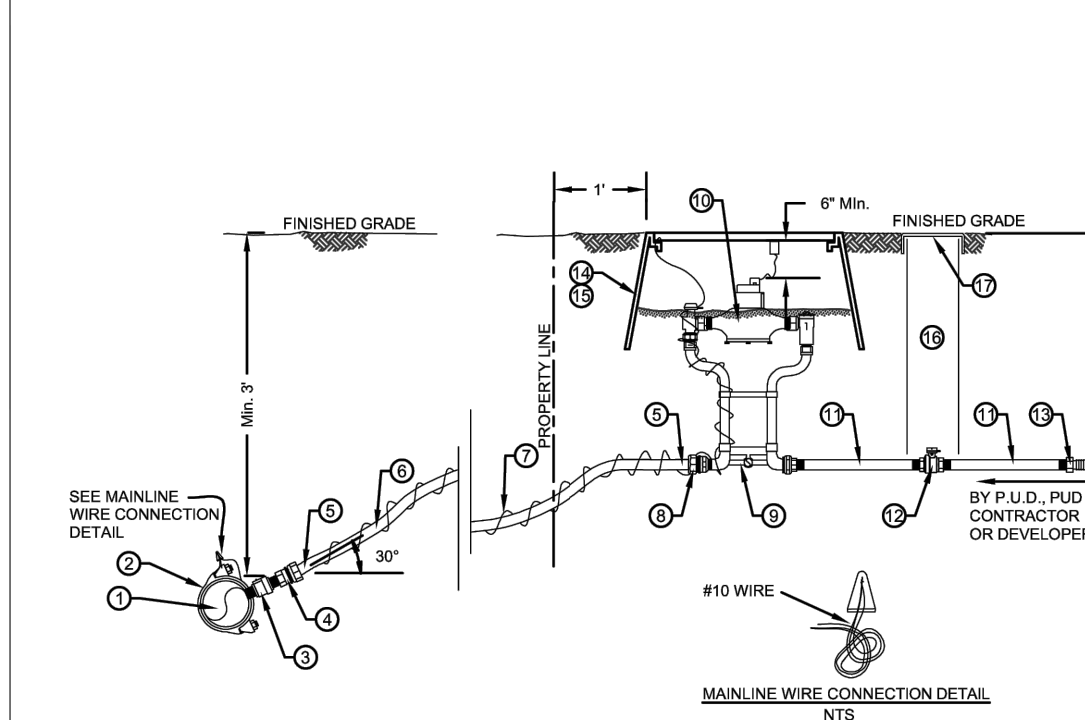
WB2-1

BILL OF MATERIALS			
NO.	NOMENCLATURE	REQD.	RECD.
1	WATER MAIN	1	1
2	CLAMP, SERVICE, DOUBLE STRAP X 1" I.P.T., ALL BRASS, (FORD #2029)	1	1
3	CORP. 1", (FORD #B500-4)	1	1
4	ADAPTER BRASS PAC JOINT, 1" F.I.P.T. x 1" COP, (FORD #C144-NL)	1	1
5	INSERT, STIFFENER, 3/4" (FORD #71)	2	1
6	PIPE, 1" REHAU MUNIPEX TYPE A, 200 P.S.I.	1	1
7	WIRE, #10 SOLID COPPER, BLUE COATED, EXTEND MIN. 18" INTO BOX, NEAR LID	1	1
8	ADAPTER BRASS PAC JOINT, 1" M.I.P.T. x 1" COP, (FORD #C344-NL)	1	1
9	COPPERSETTER, 3/4" (FORD #WBH72-9M-11-44-NL-FF) W/1" DBL PURPOSE UNION SWIVELS	1	1

NOTES

- CORP TO BE IN FULL OPEN POSITION BEFORE BACKFILL.
- INSTALL SERVICE LINE PERPENDICULAR TO MAIN UNLESS OTHERWISE SHOWN ON WATER CONSTRUCTION PLAN.
- SERVICE LINE IS TYPICALLY 1" TO NORTH OR WEST OF PROPERTY CORNER OR AS OTHERWISE SPECIFIED.
- PUID OWNERSHIP ENDS AT THE METER AND METER BOX. WATER SERVICES TO BE CONNECTED TO AN ACTIVE WATERLINE ARE REQUIRED TO BE INSTALLED BY P.U.D. WATER SERVICES. INSTALL WITH A NEW WATERLINE OR WATERLINE EXTENSION WILL BE PERFORMED BY THE CONTRACTOR/DEVELOPER PRIOR TO CONNECTION OF THE NEW WATERLINE TO THE PUD SYSTEM. THE PUD IS REQUIRED TO SET ALL METERS. IF A NEW WATER SERVICE IS INSTALLED BY THE PUD, PUD WILL INCLUDE THE PRIVATE SHUT-OFF VALVE AFTER THE METER. AFTER INSTALLATION THE OWNER IS RESPONSIBLE FOR ALL FUTURE MAINTENANCE, REPAIR AND REPLACEMENT OF THE PRIVATE SHUT-OFF VALVE.
- METER IS NOT INSTALLED IN COPPERSETTER. INSTALL A PVC NIPPLE BETWEEN METER CONNECTIONS. IF CONNECTION IS NOT MADE TO CUSTOMER'S PLUMBING, INSTALL A WATERTIGHT WRAP OF ELECTRICAL TAPE OVER END OF ADAPTER(13). SET COPPERSETTER FLUSH, PLUMBS AND CENTERED IN BOX.
- FLUSH OUT SERVICE TUBING AND COPPERSETTER BEFORE INSTALLING METER. DO NOT ALLOW MUD OR FOREIGN MATERIAL TO ENTER ANY TUBING OR FITTINGS.
- FILL BOX WITH FINE DIRT TO TOP OF METER.
- IF THE METER BOX IS LOCATED IN ASPHALT OR CONCRETE AREA, A TRAFFIC BOX, CARSON 1324-2520 W/COVER 1324-4206 WILL BE REQUIRED. NOT FOR THROUGH-WAY TRAFFIC APPLICATIONS.
- IF THERE IS PETROLEUM-BASED CONTAMINATED SOIL PRESENT, THE SERVICE PIPELINE SHALL BE OF TYPE K COPPER WITH BRASS AND COPPER FITTINGS.
- IF SERVICE LINE HAS LESS THAN 2' OF COVER, CONTACT DISTRICT ENGINEERING DEPARTMENT FOR FREEZE PROTECTION REQUIREMENTS.
- BACKFLOW PROTECTION AT THE SERVICE CONNECTION IS REQUIRED FOR NON-RESIDENTIAL, AGRICULTURAL, AND IRRIGATION USES, ON LARGE SIZED PROPERTIES, PROPERTIES WITH EXITING WELLS AND BOOSTER/SEWAGE PUMPS, AND IN OTHER SITUATIONS AS DESCRIBED IN THE DISTRICT'S CROSS CONNECTION CONTROL MANUAL.

ALL BRASS FITTINGS TO BE LEAD FREE DOMESTIC BRASS



PUD NO. 1 OF SKAGIT COUNTY ENGINEERING MANAGER

APPROVED ON: SEPTEMBER 9, 2022

Skagit PUD PUBLIC UTILITY DISTRICT

STANDARD

2 STANDARD INSTALLATION OF 1" METERED SERVICE WITH 200 P.S.I. REHAU SERVICE LINE

SCALE: 1" = 2'

DATE: 3/10/05

REVISED: 8/8/22

DRAWN BY: KAN

APPROVED BY: MCH

WS1-1

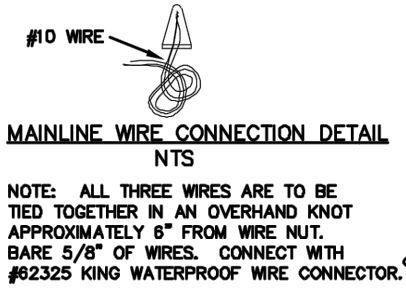
BILL OF MATERIALS			
NO.	NOMENCLATURE	REQD.	RECD.
1	WATER MAIN	1	1
2	CLAMP, SERVICE, DOUBLE STRAP X 1" I.P.T., ALL BRASS, (FORD #2029)	1	1
3	CORP. 1", (FORD #B500-4)	1	1
4	ADAPTER BRASS PAC JOINT, 1" F.I.P.T. x 1" COP, (FORD #C144-NL)	1	1
5	INSERT, STIFFENER, 3/4" (FORD #71)	2	1
6	PIPE, 1" REHAU MUNIPEX TYPE A, 200 P.S.I.	1	1
7	WIRE, #10 SOLID COPPER, BLUE COATED, EXTEND MIN. 18" INTO BOX, NEAR LID	1	1
8	ADAPTER BRASS PAC JOINT, 1" M.I.P.T. x 1" COP, (FORD #C344-NL)	1	1
9	COPPERSETTER, 3/4" (FORD #WBH72-9M-11-44-NL-FF) W/1" DBL PURPOSE UNION SWIVELS	1	1

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 1730-3L 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.



NOTES:

- ALL THREE WIRES ARE TO BE TIED TOGETHER IN AN OVERHAND KNOT APPROXIMATELY 8" FROM WIRE NUT. BARE 5/8" OF WIRES. CONNECT WITH #62325 KING WATERPROOF WIRE CONNECTOR.

PUD NO. 1 OF SKAGIT COUNTY ENGINEERING MANAGER

APPROVED ON: MAY 21, 2014

Skagit PUD PUBLIC UTILITY DISTRICT

STANDARD

4 STANDARD INSTALLATION OF 1" COMBINATION AIR VALVE ASSEMBLY

SCALE: 1" = 2'

DATE: 3-25-05

REVISED: 5/21/14

DRAWN BY: CAS

APPROVED BY: GJS

WV1-1

ISSUE	REVISIONS	BY	DATE
1.	60% DESIGN	MCH	5/1/23
2.	90% DESIGN	MCH	7/19/23
3.	ISSUED FOR BIDDING	MCH	10/31/23



DATUM: HOR: NAD 83 VERT: NAVD 88	DSGN BY: CAS DWN BY: JLB APPV BY: MCH
DATE PRINTED: 10/31/23	SEC: 2 TWP: 34 N RGE: 3 E



PUBLIC UTILITY DISTRICT
NO. 1 OF SKAGIT COUNTY
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(360) 424-7104
www.SkagitPud.org

SKAGIT COUNTRY CLUB PIPELINE REPLACEMENT PROJECT		DETAILS(CONTINUED)	
SCALE: NONE	P.N. 03737 C.O. 5018	SHEET: 37 OF 37	