
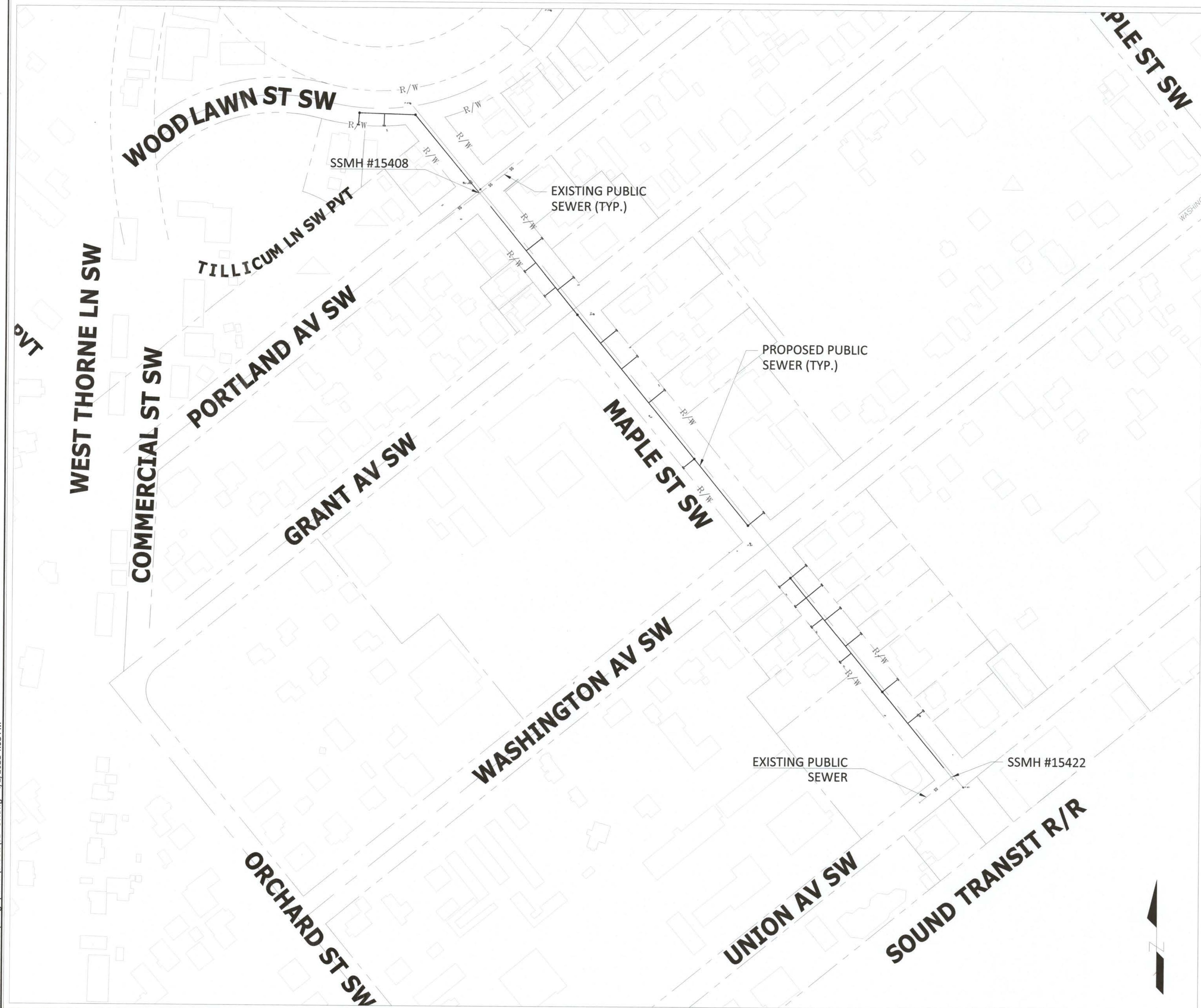


MAPLE STREET PUBLIC SANITARY SEWER EXTENSION

SECTION 21, TOWNSHIP 19 N, RANGE 2 E
CITY PROJECT NO. 311.0005

APPROVED  DATE 04-08-2021
WASTEWATER UTILITY MANAGER DATE
"PLAN APPROVAL EXPIRES THREE (3) YEARS FROM THE DATE OF APPROVAL"
SWLE #950651

VICINITY MAP
SCALE: 1" = 100'

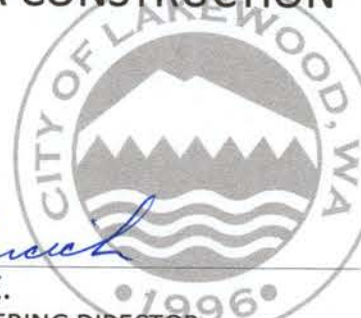
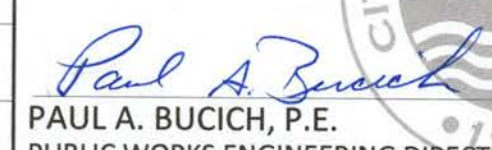


DRAWING INDEX

SHEET	DRAWING	DESCRIPTION
1	CV	COVER SHEET
2	LA	LEGEND AND ABBREVIATIONS
3	SS-1	PLAN AND PROFILE - MAPLE STREET SW - STA. 10+00 TO STA. 19+00
4	SS-2	PLAN AND PROFILE - MAPLE STREET SW - STA. 19+00 TO STA. 26+53
5	SS-3	PLAN AND PROFILE - WOODLAWN ST SW - STA. 50+00 TO STA. 53+13
6	SS-4	INTERIOR ANGLE DETAILS FOR NON-STANDARD (90°) MANHOLE INSERTS




S:\CSD Projects\311.0005 Maple St Sewer Extension\Design\Sewer\Sheets\01 - CV.dwg - 4/7/2021 4:08 PM

NO.	RELEASE/REVISION	DATE	BY	A. D. BUCHANAN, P.E. PROJECT ENGINEER	APPROVED FOR CONSTRUCTION 	PROJECT NAME MAPLE STREET PUBLIC SANITARY SEWER EXTENSION	PROJECT 311.0005
				A. D. BUCHANAN, P.E. DESIGN ENGINEER			
				TIM MOTOH, E.I.T. DRAWN BY	 PAUL A. BUCICH, P.E. PUBLIC WORKS ENGINEERING DIRECTOR	DATE 4/5/2021	1 of 6
				PAUL A. BUCICH, P.E. PUBLIC WORKS ENGINEERING DIRECTOR			

MAPLE STREET PUBLIC SANITARY SEWER EXTENSION

SECTION 21, TOWNSHIP 19 N, RANGE 2 E

APPROVED  04-08-2021
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 SWLE #950651

ABBREVIATIONS

ABAND.....	ABANDON	N.....	NORTH
AC.....	ASBESTOS CONCRETE	NE.....	NORTH EAST
AP.....	ANGLE POINT	NO.....	NUMBER
APPROX.....	APPROXIMATELY	NTS.....	NOT TO SCALE
ARV.....	AIR RELEASE VALVE	N.U.....	NOT USED
ASPH.....	ASPHALT	NW.....	NORTH WEST
AV, AVE.....	AVENUE		
		O.C.....	ON CENTER
BOT.....	BOTTOM	PC.....	POINT OF CURVE
BLDG.....	BUILDING	P.C.....	PIERCE COUNTY
BLVD.....	BOULEVARD	PED.....	PEDESTRIAN
BSW.....	BACK OF SIDEWALK	PERF.....	PERFORATED
		PI.....	POINT OF INTERSECTION
CB.....	CATCH BASIN	PL.....	PROPERTY LINE
CDF.....	CONTROLLED DENSITY FILL	PROP.....	PROPOSED
CL.....	CENTERLINE	PT.....	POINT OF TANGENT
CO.....	CLEAN OUT	PVC.....	POINT OF VERTICAL CURVE
CONC.....	CONCRETE	PVC.....	POLY VINYL CHLORIDE
CONT.....	CONTINUE	PVI.....	POINT OF VERT. INTERSECTION
CMP.....	CORRUGATED METAL PIPE	PVT.....	POINT OF VERT. TANGENT
CPE.....	CORRUGATED POLYETHYLENE PIPE	PVMT.....	PAVEMENT
CR.....	CROWN		
CSTC.....	CRUSHED SURFACING TOP COURSE	R.....	RADIUS
CU.FT.....	CUBIC FEET	RCP.....	REINFORCED CONCRETE PIPE
CU.YD.....	CUBIC YARD	RD.....	ROAD
		RE.....	RELEASE
DEG.....	DEGREE	RGE.....	RANGE
DBL.....	DOUBLE	RT.....	RIGHT
DI.....	DUCTILE	R/W.....	RIGHT-OF-WAY
DRWY.....	DRIVEWAY		
		S.....	SOUTH
E.....	EAST	SAN.....	SANITARY
EA.....	EACH	SD.....	STORM DRAIN
EG.....	EDGE OF GRAVEL	SDR.....	STANDARD DIMENSION RATIO
EL.....	ELEVATION	SDMH.....	STORM DRAIN MANHOLE
EP.....	EDGE OF PAVEMENT	SE.....	SOUTH EAST
EXC.....	EXCAVATION	SEC.....	SECTION
EX.,EXIST.....	EXISTING	SPEC.....	SPECIFICATIONS
		SS.....	SANITARY SEWER
FG.....	FINISHED GROUND	SSMH.....	SANITARY SEWER MANHOLE
FH.....	FIRE HYDRANT	STD.....	STANDARD
FOUN.....	FOUND	STA.....	STATION
FD.....	FOOT	ST.....	STREET
FL.....	FLANGED JOINT	SW.....	SOUTH WEST
FM.....	FORCE MAIN	S/W.....	SIDEWALK
G.....	GAS		
GV.....	GAS VALVE	T.....	TELEPHONE
GE.....	GRATE ELEVATION	T.O.C.....	TOP OF CURB
GRVL.....	GRAVEL	TWP.....	TOWNSHIP
GS.....	GROUND SHOT	TYP.....	TYPICAL
		U.P.....	UTILITY POLE
HDPE.....	HIGH DENSITY POLYETHYLENE	UNK.....	UNKNOWN
HMA.....	HOT MIX ASPHALT		
HORIZ.....	HORIZONTAL	V.....	VALVE
HPS.....	HIGH PRESSURE GAS	VAP.....	VERTICAL ANGLE POINT
IE.....	INVERT ELEVATION	V.C.....	VERTICAL CURVE
INT.....	INTERSECTION	VERT.....	VERTICAL
IRR.....	IRRIGATION	VRV.....	VACUUM RELEASE VALVE
L.....	LENGTH		
LF.....	LINEAR FOOT/FEET	W.....	WEST
LT.....	LEFT	W/.....	WITH
		WM.....	WATER METER
MH.....	MANHOLE	W.M.....	WILLAMETTE MERIDIAN
MJ.....	MECHANICAL JOINT	WQ.....	WATER QUALITY
MAX.....	MAXIMUM	WSDOT.....	WASHINGTON STATE DEPARTMENT OF TRANSPORTATION
MIN.....	MINIMUM	W.V.....	WATER VALVE
MISC.....	MISCELLANEOUS	Z.....	ZONE
MON.....	MONUMENT		
MUTCD.....	MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES		

GAS /POWER /TELEPHONE SYMBOLS

EXIST.	PROP.	DESCRIPTION
		GAS VALVE
		UTILITY POLE
		GUY ANCHOR
		TELEPHONE RISER
		TELEPHONE VAULT
		PAD MOUNTED TRANSFORMER
		POLE MOUNTED TRANSFORMER
		POWER VAULT

SURFACE FEATURE /LANDSCAPE SYMBOLS

EXIST.	PROP./RELOCATE	DESCRIPTION
		JUNCTION BOX (TYPE I, II, III)
		SHRUB /HEDGE
		TREE (CONIFEROUS)
		TREE (DECIDUOUS)
		STREET SIGN
		TRAFFIC SIGN POST
		STREET LIGHT ASSEMBLY
		MAILBOX

LINE TYPES LEGEND

EXIST.	PROP.	DESCRIPTION
		ROCKERY
		FENCE AS NOTED
		GUARD RAIL
		PROPERTY LINE
		RIGHT OF WAY/EASEMENT LINE
		CONTOURS
		UTILITIES (PER UTILITY LOCATOR PAINT MARKS AND SURFACE EVIDENCE)
		SAN. SEWER
		STORM DRAIN
		GAS
		BURIED POWER
		POWER (OVERHEAD)
		TELEPHONE
		TELEVISION
		FIBER OPTICS (PER MARKERS ONLY)
		WATER MAIN (PER LAKEWOOD WATER DISTRICT SCHEMATICS)

SANITARY /STORM SEWER SYMBOLS

EXIST.	PROP.	DESCRIPTION
		SANITARY SEWER CLEANOUT
		SANITARY SEWER MANHOLE
		AIR RELEASE VALVE
		DIRECTION OF FLOW
		STORM DRAIN CATCH BASIN, TYPE I
		STORM DRAIN CATCH BASIN, TYPE II
		CONCRETE ENCASEMENT

SURVEY SYMBOLS

EXIST.	PROP.	DESCRIPTION
		MONUMENT (IN CASE)
		SURVEY IRON PIPE
		SURVEY CONTROL NAIL
		SURVEY CONTROL "X" SCRIBE
		BENCH MARK

WATER SYMBOLS

EXIST.	PROP.	DESCRIPTION
		BLOW-OFF ASSEMBLY
		CAP/PLUG
		COUPLING
		REDUCER
		THRUST BLOCK
		WATER METER
		FIRE HYDRANT
		BUTTERFLY VALVE
		GATE VALVE
		AIR RELEASE VALVE
		SPRINKLER HEAD

SURVEY NOTES

DATUM
 VERTICAL DATUM:
 NAVD 88 - PER WSDOT CONTROL POINTS IS27171 AND FS2788

BASIS OF MERIDIAN:
 WASHINGTON STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, 4602, NAD 83/91.
 HORIZONTAL AND VERTICAL CONTROL CONSTRAINED TO WSDOT CONTROL POINTS IS27171 AND FS2788 WITH A COMBINED SCALE FACTOR OF 0.999949855

PARCEL LINE NOTE
 THE TAX PARCEL LINES SHOWN ON THIS SURVEY ARE FOR GRAPHICAL PURPOSES ONLY. THE TAX PARCEL LINES WERE SCALED FROM PIERCE COUNTY ASSESSOR'S MAPS AND DO NOT PURPORT TO BE SURVEYED PROPERTY LINES.

BURIED UTILITIES NOTE
 THE BURIED UTILITIES SHOWN HEREON ARE BASED ON A COMBINATION OF UTILITY LOCATOR MARKINGS AND AS BUILT AND/OR UTILITY DESIGN DRAWINGS, ALL OF WHICH ARE DEEMED RELIABLE. WE CANNOT GUARANTEE THAT ALL UNDERGROUND UTILITIES THAT MAY EXIST WITHIN THE SITE HAVE BEEN SHOWN. CALL 1-800-424-5555 BEFORE ANY CONSTRUCTION.

THE EXISTING TOPOGRAPHIC AND PHYSICAL FEATURES SHOWN ON THESE PLANS ARE BASED ON A COMBINATION OF:
 FIELD SURVEY AND AS-BUILTS FROM PIERCE COUNTY
 FIELD SURVEY DATA BY JEROME CHAPMAN, PROFESSIONAL LAND SURVEYOR OR UNDER DIRECT SUPERVISION OF JEROME CHAPMAN THROUGH OCTOBER 2020
 FRANCHISE UTILITY COMPANY RECORDS
 FIELD RECONNAISSANCE BY CITY OF LAKEWOOD PUBLIC WORKS DEPARTMENT

THIS WAS THE INFORMATION AVAILABLE AT THE TIME OF PLAN PREPARATION. ACTUAL CONDITIONS MAY BE DIFFERENT. THE CONTRACTOR MAY ENCOUNTER VARIATIONS BETWEEN ACTUAL CONDITIONS AND THOSE SHOWN. THESE VARIATIONS WILL NOT BE THE BASIS FOR A CLAIM OR EXTRA COMPENSATION.

THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE CITY OF LAKEWOOD. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE ENCOUNTERED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

CONSTRUCTION NOTES

- ALL MATERIALS, WORKMANSHIP, AND TESTING SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE LATEST EDITION OF THE PIERCE COUNTY SANITARY SEWER DEVELOPMENT SPECIFICATIONS, THE PIERCE COUNTY SANITARY SEWER STANDARD DETAILS MANUAL AND THE PIERCE COUNTY SEWER CODE.
- THE CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER AND THE PIERCE COUNTY DEVELOPMENT ENGINEERING INSPECTOR IN THE EVENT OF DISCOVERY OF POOR SOILS, STANDING GROUND WATER OR DISCREPANCIES FROM THE PLANS IN GRADES, LOCATIONS AND CONSTRUCTION OF UTILITIES, STRUCTURES, AND OTHER EXISTING CONDITIONS.
- THE CONTRACTOR SHALL FIELD VERIFY LOCATION AND ELEVATION OF THE POINT OF CONNECTION PRIOR TO CONSTRUCTION.
- TESTING BY AIR OR WATER EXFILTRATION IS REQUIRED ON ALL SEWERS INCLUDING DRY LINES, AND VACUUM TESTING IS REQUIRED ON ALL MANHOLES. PIERCE COUNTY REQUIRES A MINIMUM 24-HOUR ADVANCED NOTICE FOR SITE INSPECTION.
- THE CONTRACTOR SHALL BE REGISTERED WITH PIERCE COUNTY PLANNING AND PUBLIC WORKS DEVELOPMENT ENGINEERING SECTION AND HAVE A VALID \$5,000.00 STREET OBSTRUCTION BOND.
- PIERCE COUNTY REQUIRES THAT THE OWNER OR THE OWNER'S REPRESENTATIVE, THE ENGINEER AND THE CONTRACTOR ATTEND A PRE-CONSTRUCTION CONFERENCE WITH THE PIERCE COUNTY DEVELOPMENT ENGINEERING INSPECTOR FOR ALL WORK ON THESE PLANS. THE CONFERENCE SHOULD BE SCHEDULED BY CALLING 253-798-4050 A MINIMUM OF TWO WEEKS PRIOR TO COMMENCEMENT OF WORK.
- IT SHALL BE THE RESPONSIBILITY OF THE OWNER/DEVELOPER/CONTRACTOR TO OBTAIN NECESSARY PERMITS, CONSTRUCTION EASEMENTS AND RELEASES.
- ANY REVISIONS TO THESE PLANS, ONCE APPROVED BY CITY OF LAKEWOOD DEPARTMENT OF PUBLIC WORKS MUST BE REVIEWED AND REAPPROVED BY PIERCE COUNTY PLANNING AND PUBLIC WORKS DEVELOPMENT ENGINEERING SECTION PRIOR TO IMPLEMENTATION IN THE FIELD.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE A SET OF THESE APPROVED PLANS ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS.
- SIDE SEWER STUBS SHALL BE INSTALLED AT LEAST 10 FEET FROM PROPERTY LINES, UNLESS OTHERWISE APPROVED BY PIERCE COUNTY PLANNING AND PUBLIC WORKS DEVELOPMENT ENGINEERING SECTION.
- ALL MANHOLES LOCATED IN LOW POINTS OF VERTICAL CURVES SHALL HAVE WATERTIGHT LIDS.
- ALL NEW MANHOLES WILL BE PRECHANNELED WITH PIERCE COUNTY APPROVED MANHOLE INVERT LINERS AND HAVE LOCKING LIDS, UNLESS OTHERWISE NOTED.
- SANITARY SEWER LINES AND WATER MAIN CROSSINGS:
 - THE STANDARD MINIMUM VERTICAL SEPARATION FOR WATER LINES IS 1.5 FEET ABOVE THE SANITARY SEWER LINE. SEPARATION SHALL BE MEASURED FROM THE OUTER WALLS OF THE PIPES.
 - CONTACT DEVELOPMENT ENGINEERING FOR UNUSUAL CIRCUMSTANCES FOR DEVELOPMENT ENGINEERING TO DETERMINE IF A REDUCED MINIMUM VERTICAL SEPARATION WILL BE ALLOWED FOR LESS THAN 1.5 FEET BUT NOT LESS THAN 0.75 FEET. ADDITIONAL PROVISIONS WILL BE REQUIRED.
- SANITARY SEWER LINES AND UTILITY CROSSING OTHER THAN WATER LINES:
 - THE STANDARD MINIMUM VERTICAL SEPARATION FOR UTILITIES OTHER THAN WATER LINES IS 1.5 FEET FROM THE SANITARY SEWER. SEPARATION SHALL BE MEASURED FROM THE OUTER WALLS OF THE PIPES.
 - IF CONCRETE ENCASEMENT OF THE SANITARY SEWER IS PROVIDED, THEN A REDUCED MINIMUM VERTICAL SEPARATION OF 0.75 FEET WILL BE ALLOWED. THE CONCRETE ENCASEMENT SHALL EXTEND 10 FEET ON EACH SIDE OF THE CROSSING.
 - CLASS 52 DUCTILE IRON PIPE MAY BE USED FOR THE SANITARY SEWER IN LIEU OF CONCRETE ENCASEMENT PROVIDED THAT THERE IS NO TRANSITIONING TO OTHER PIPE MATERIALS BETWEEN MANHOLES.
- TEES SHALL BE USED FOR ALL SIDE SEWER CONNECTIONS TO SEWER MAINLINES.
- THE INTERIOR OF ALL DUCTILE IRON PIPE SHALL BE LINED PER PIERCE COUNTY SANITARY SEWER DEVELOPMENT SPECIFICATIONS.
- THE INTERIOR WALLS OF ALL CONCRETE MANHOLES FOR INTERCEPTOR SEWERS (15" NOMINAL INSIDE DIAMETER AND LARGER) SHALL BE COATED PER PIERCE COUNTY SANITARY SEWER DEVELOPMENT SPECIFICATIONS.
- THE EXTERIOR OF ALL MANHOLES SHALL BE COATED PER PIERCE COUNTY SANITARY SEWER DEVELOPMENT SPECIFICATIONS.
- THE MINIMUM LENGTH OF CONCRETE ENCASEMENT SHALL BE 20 LINEAR FEET.
- CONCRETE MANHOLES THAT ARE TAPPED FOR A FORCE MAIN CONNECTION SHALL HAVE THEIR INTERIORS RECEIVE PROTECTIVE COATINGS PER PIERCE COUNTY SANITARY SEWER DEVELOPMENT SPECIFICATIONS.
- ALL TRENCH RESTORATION REQUIREMENTS, OTHER THAN PIPE BEDDING, SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL ON ACCOMMODATING UTILITIES IN PIERCE COUNTY RIGHT-OF-WAY, PEA GRAVEL, AS SPECIFIED IN THE PIERCE COUNTY SANITARY SEWER DEVELOPMENT SPECIFICATIONS, SHALL BE USED FOR ALL SANITARY SEWER PIPE BEDDING MATERIAL.
- ALL PAVEMENT RESTORATION REQUIREMENTS IN THE PUBLIC RIGHT-OF-WAY SHALL BE DETERMINED BY THE PERMITTING JURISDICTION (I.E. PIERCE COUNTY TRANSPORTATION SERVICES, CITY OF UNIVERSITY PLACE, CITY OF LAKEWOOD, TOWN OF MILTON, CITY OF TACOMA, CITY OF DUPONT, OR THE STATE OF WASHINGTON, ETC.) UPON APPLICATION AND ISSUANCE OF THE RIGHT-OF-WAY PERMIT OR EQUAL THEREOF. IN ADDITION, AT THE PERMITTING JURISDICTION'S DISCRETION, ALTERNATE CONSTRUCTION METHODS OTHER THAN STANDARD OPEN TRENCH CONSTRUCTION MAY BE REQUIRED FOR THE SANITARY SEWER CONSTRUCTION SHOWN ON THESE APPROVED CONSTRUCTION PLANS.

GENERAL NOTES

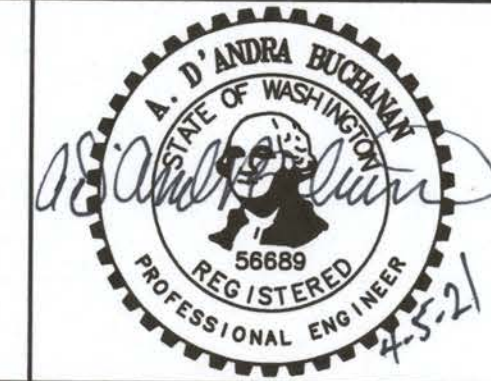
- ALL MATERIALS, WORKMANSHIP, AND TESTING SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE LATEST EDITION OF THE PIERCE COUNTY SANITARY SEWER DEVELOPMENT SPECIFICATIONS, THE PIERCE COUNTY SANITARY SEWER STANDARD DETAILS MANUAL AND THE PIERCE COUNTY SEWER CODE.
- THE CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER AND THE PIERCE COUNTY SEWER DIVISION INSPECTOR IN THE EVENT OF DISCOVERY OF POOR SOILS, STANDING GROUND WATER OR DISCREPANCIES FROM THE PLANS IN GRADES, LOCATIONS AND CONSTRUCTION OF UTILITIES, STRUCTURES, AND OTHER EXISTING CONDITIONS.
- THE CONTRACTOR SHALL FIELD VERIFY LOCATION AND ELEVATION OF THE POINT OF CONNECTION PRIOR TO CONSTRUCTION.
- PROTECT ALL TREES AND VEGETATION TO THE GREATEST EXTENT POSSIBLE. IF TREES ARE IN CONFLICT WITH THE PROPOSED SEWER STUB LOCATION, THE STUB SHALL BE RELOCATED AT THE DIRECTION OF THE ENGINEER. TREES MAY BE TRIMMED AS NECESSARY PER STANDARD SPECIFICATION 1-07.16

 CALL (3) BUSINESS DAYS BEFORE YOU DIG
 1-800-424-5555
 "It's the Law"

 DUMP NO WASTE
 DRAINS TO STREAMS

NO.	RELEASE/REVISION	DATE	BY

A. D. BUCHANAN, P.E.
 PROJECT ENGINEER
 A. D. BUCHANAN, P.E.
 DESIGN ENGINEER
 TIM MOTOH, E.I.T.
 DRAWN BY
 PAUL A. BUCICH, P.E.
 PUBLIC WORKS ENGINEERING DIRECTOR
 DESIGN START SCALE
 APRIL 2020 AS SHOWN




PROJECT NAME	MAPLE STREET PUBLIC SANITARY SEWER EXTENSION
DRAWING NAME	LEGENDS AND ABBREVIATIONS
PROJECT	311.0005
DRAWING	LA
	2 of 6

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MAPLE STREET SW ALIGNMENT
STA 10+00 TO 19+00

MAPLE STREET PUBLIC SANITARY SEWER EXTENSION

SECTION 21, TOWNSHIP 19 N, RANGE 2 E

APPROVED  04-08-2021
DATE
WASTEWATER UTILITY MANAGER
"PLAN APPROVAL EXPIRES THREE (3) YEARS FROM THE DATE OF APPROVAL."
SWLE #950651

STUB LOCATION SCHEDULE						
ADDRESS	STATION	DIST TO DWNSTRM MH	DWNSTRM MH NO.	PIPE TYPE	END IE	LENGTH
8605/8609 MAPLE ST SW	13+74	127'	15408	6" SDR 35 PVC	276.21	36'
8604 MAPLE ST SW	14+00	153'	15408	6" SDR 35 PVC	275.54	25'
8601/8603 MAPLE ST SW	14+60	213'	15408	6" SDR 35 PVC	276.94	37'
8602 MAPLE ST SW	14+54	207'	15408	6" SDR 35 PVC	275.41	24'
8515 MAPLE ST SW	15+76	68'	19024	6" SDR 35 PVC	277.24	36'
8514 MAPLE ST SW	18+30	0'	19025	8" SDR 35 PVC	268.25	25'
8509 MAPLE ST SW	16+33	125'	19024	6" SDR 35 PVC	275.73	36'
8503 MAPLE ST SW	17+07	199'	19024	6" SDR 35 PVC	276.10	36'

TREE PRESERVATION NOTE

OWNER OF 8602 MAPLE ST HAS REQUESTED TO NOT REMOVE THE EXISTING 24" MAPLE IN FRONT OF THE PROPERTY. CONTRACTOR IS TO TAKE CARE TO PROTECT THIS TREE TO THE GREATEST EXTENT POSSIBLE. IF RELOCATION OF PROPOSED STUB IS NECESSARY, IT SHALL BE DONE AT THE DIRECTION OF THE ENGINEER.

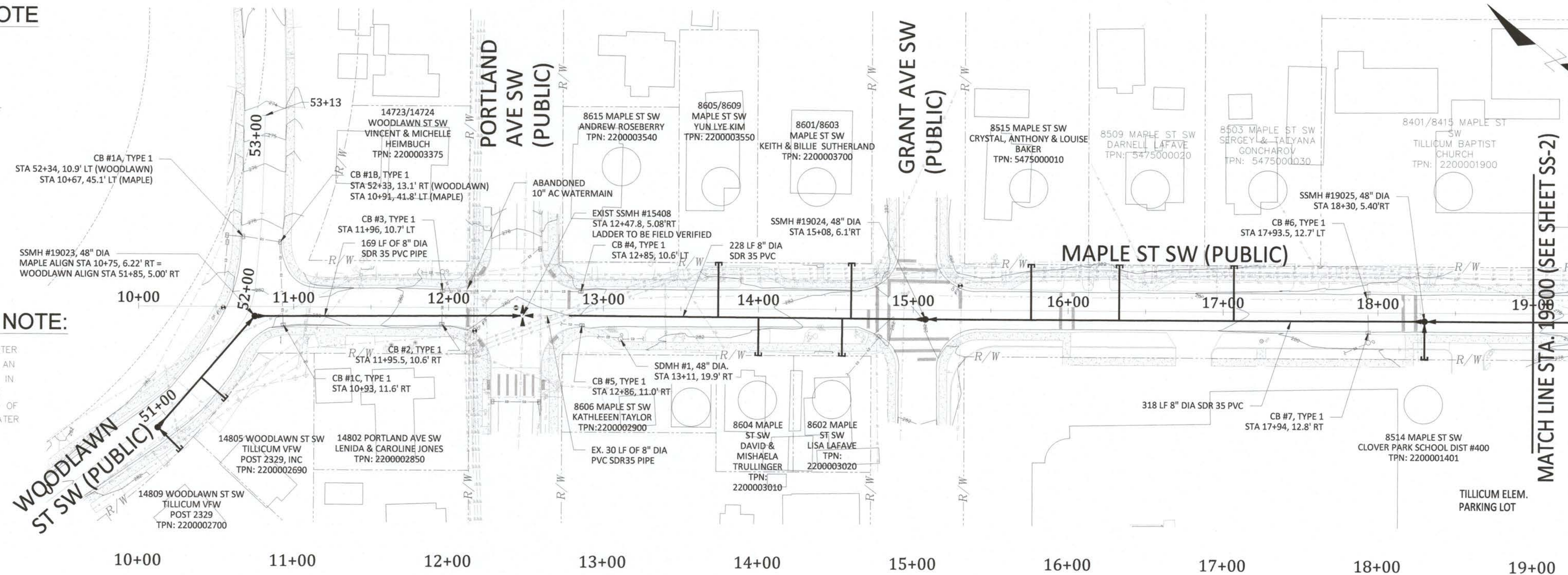
THRUST BLOCK NOTE:

PLANS FROM LAKEWOOD WATER DISTRICT, FOR WATER MAIN REHAB PROJECT, DATED 3/02/09, IDENTIFY THRUST BLOCKS INSTALLED ON THE WATER LINE BETWEEN STATIONS 12+00 AND 13+00. CONTRACTOR IS HEREBY NOTIFIED OF THE POSSIBLE EXISTENCE OF THESE THRUST BLOCKS WITHIN THE PROJECT LIMITS. PROTECT THRUST BLOCKS AND WATER LINE. REPLACE THRUST BLOCKS IF REQUIRED BY LAKEWOOD WATER DISTRICT.

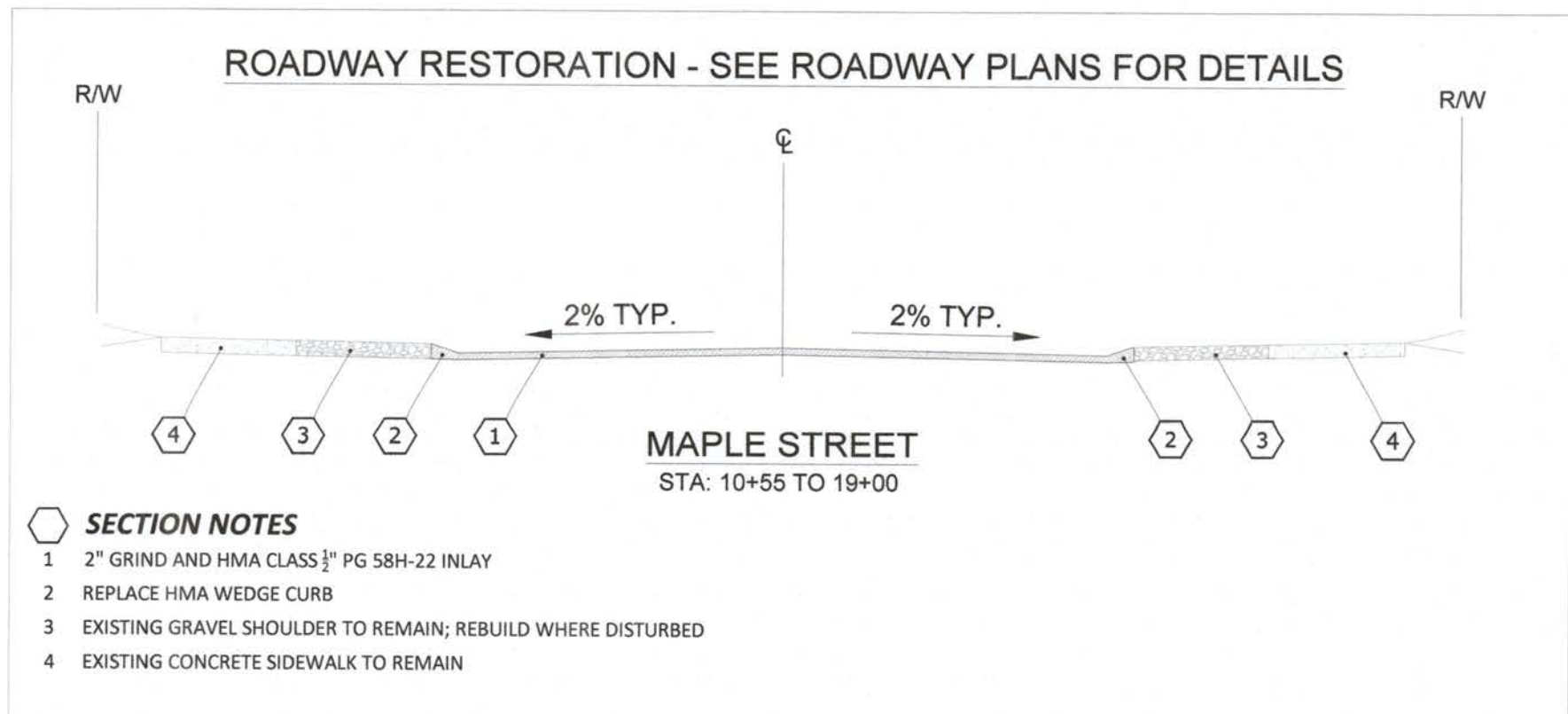
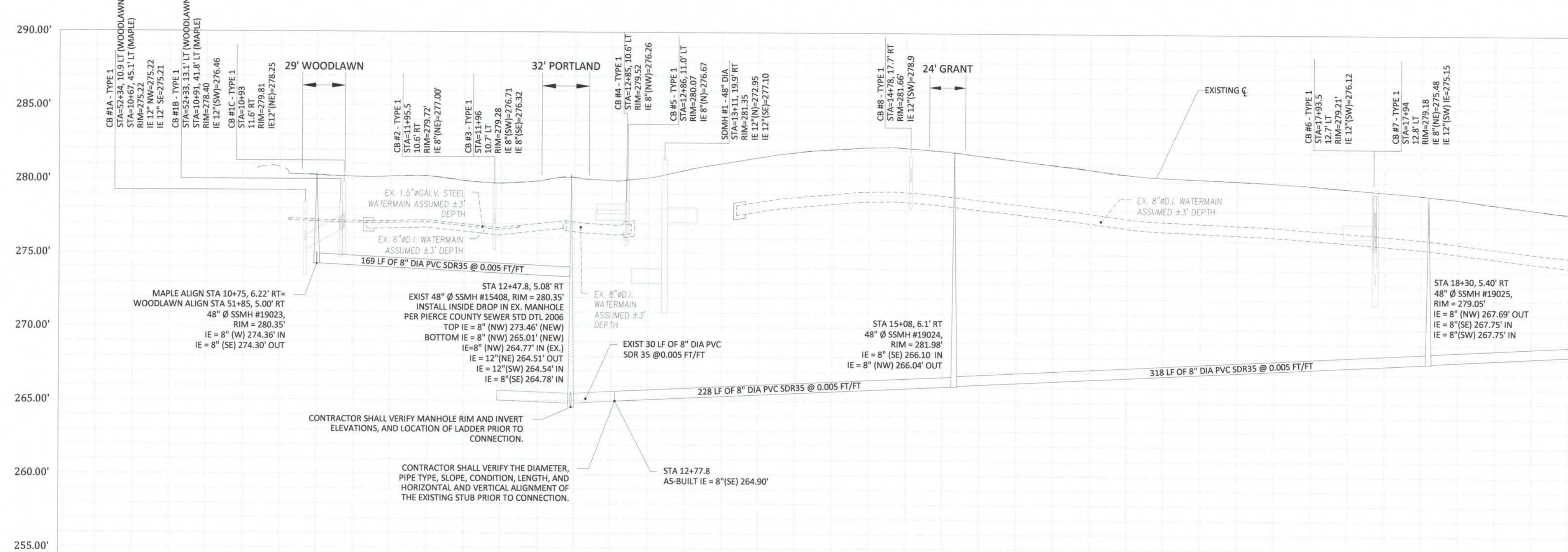
ABANDONED WATER MAIN NOTE:

PLANS FROM LAKEWOOD WATER DISTRICT, FOR WATER MAIN REHAB PROJECT, DATED 3/02/09, IDENTIFY AN ASBESTOS CEMENT (AC) WATER MAIN ABANDONED IN PLACE CROSSING MAPLE STREET AT APPROXIMATE STATION 12+12. CONTRACTOR IS HEREBY NOTIFIED OF THE POSSIBLE EXISTENCE OF THIS ABANDONED WATER MAIN WITHIN THE PROJECT LIMITS.

NOTES:
GRAVITY SIDE SEWERS TO BE INSTALLED AT 5-FOOT MINIMUM DEPTH AT PROPERTY LINE
GRAVITY SIDE SEWERS SHALL BE INSTALLED AT MINIMUM 2% SLOPE



EGCL 279.71'	EGCL 280.12'	EGCL 281.87'	EGCL 282.01'	EGCL 280.79'	EGCL 280.07'	EGCL 279.36'	EGCL 278.21'
FGCL 279.71'	FGCL 280.12'	FGCL 281.87'	FGCL 282.01'	FGCL 280.79'	FGCL 280.07'	FGCL 279.36'	FGCL 278.21'



FLOOD PLAIN NOTE:

PROJECT DOES NOT LIE WITHIN A 100-YEAR FLOOD PLAIN AS DEFINED BY FEMA AS OF THE DATE OF THESE PLANS.

STANDARD DETAIL NOTE

PIERCE COUNTY STANDARD DETAILS CITED IN THESE PLANS HAVE BEEN INCLUDED IN THE PROJECT SPECIFICATIONS. THEY CAN ALSO BE ACCESSED VIA THE WEB AT:
<https://www.co.pierce.wa.us/documentcenter/view/884/2012-STANDARD-SANITARY-SEWER-DETAILS?BIDID=>

VERTICAL DATUM



DATUM BASED ON NAVD 88 WASHINGTON STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, 4602, NAD 83/91. HORIZONTAL AND VERTICAL CONTROL CONSTRAINED TO WSDOT CONTROL POINTS IS27171 AND FS2788 WITH A COMBINED SCALE FACTOR OF 0.999949855.

ROAD RESTORATION NOTE

ROAD RESTORATION FOR THIS PROJECT TO BE CONSTRUCTED PER "MAPLE STREET ROAD RESTORATION PLANS"


MAPLE ST SW PLAN AND PROFILE:
HORIZONTAL SCALE 1"=50' ON 22" X 34"
VERTICAL SCALE: 1"=5' ON 22" X 34"

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NO.	RELEASE/REVISION	DATE	BY	A. D. BUCHANAN, P.E. PROJECT ENGINEER	 	PROJECT NAME	PROJECT
				A. D. BUCHANAN, P.E. DESIGN ENGINEER		MAPLE STREET PUBLIC SANITARY SEWER EXTENSION	311.0005
				TIM MOTOH, E.I.T. DRAWN BY		DRAWING NAME	DRAWING
				PAUL A. BUCICH, P.E. PUBLIC WORKS ENGINEERING DIRECTOR		PLAN AND PROFILE - MAPLE STREET SW - STA. 10+00 TO STA. 19+00	SS-1
				DESIGN START SCALE AS SHOWN			3 of 6

MAPLE STREET PUBLIC SANITARY SEWER EXTENSION

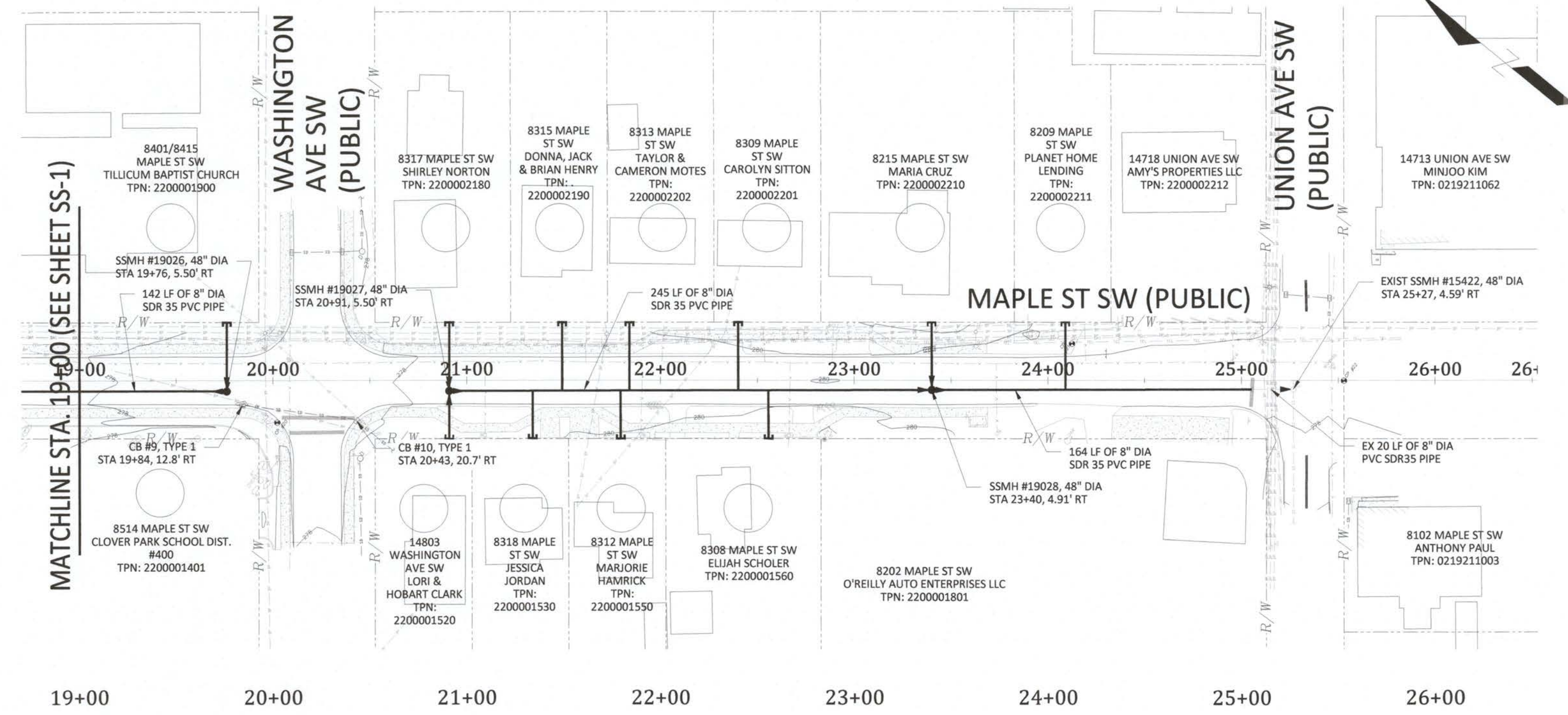
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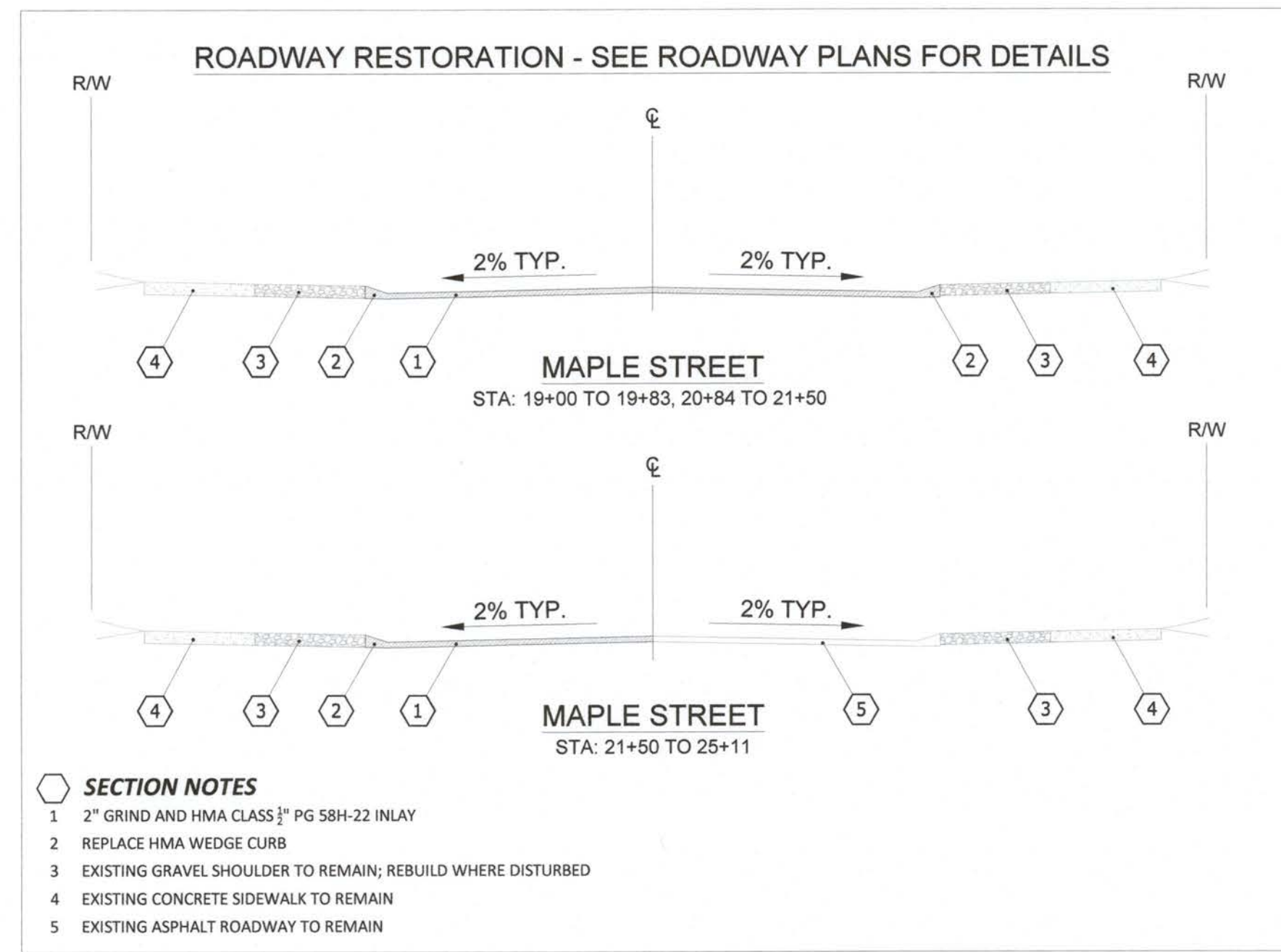
MAPLE STREET SW ALIGNMENT
 STA 19+00 TO 26+53

STUB LOCATION SCHEDULE						
ADDRESS	STATION	DIST TO DWNSTM MH	DWNSTRM MH NO.	PIPE TYPE	END IE	LENGTH
8415/8401 MAPLE ST SW	19+76	0'	19026	8" SDR 35 PVC	269.24	36'
8318 MAPLE ST SW	21+34	206'	19028	6" SDR 35 PVC	272.44	25'
8317 MAPLE ST SW	20+91	0'	19027	6" SDR 35 PVC	273.00	36'
8315 MAPLE ST SW	21+49	191'	19028	6" SDR 35 PVC	272.59	36'
8313 MAPLE ST SW	21+84	156'	19028	6" SDR 35 PVC	273.49	36'
8312 MAPLE ST SW	21+79	161'	19028	6" SDR 35 PVC	272.97	25'
8309 MAPLE ST SW	22+40	100'	19028	6" SDR 35 PVC	273.21	36'
8308 MAPLE ST SW	22+56	84'	19028	6" SDR 35 PVC	273.83	25'
8215 MAPLE ST SW	23+40	0'	19028	6" SDR 35 PVC	274.43	35'
8209 MAPLE ST SW	24+09	118'	15422	6" SDR 35 PVC	273.99	35'
14803 WASHINGTON AVE SW	20+91	0'	19027	6" SDR 35 PVC	272.78	25'

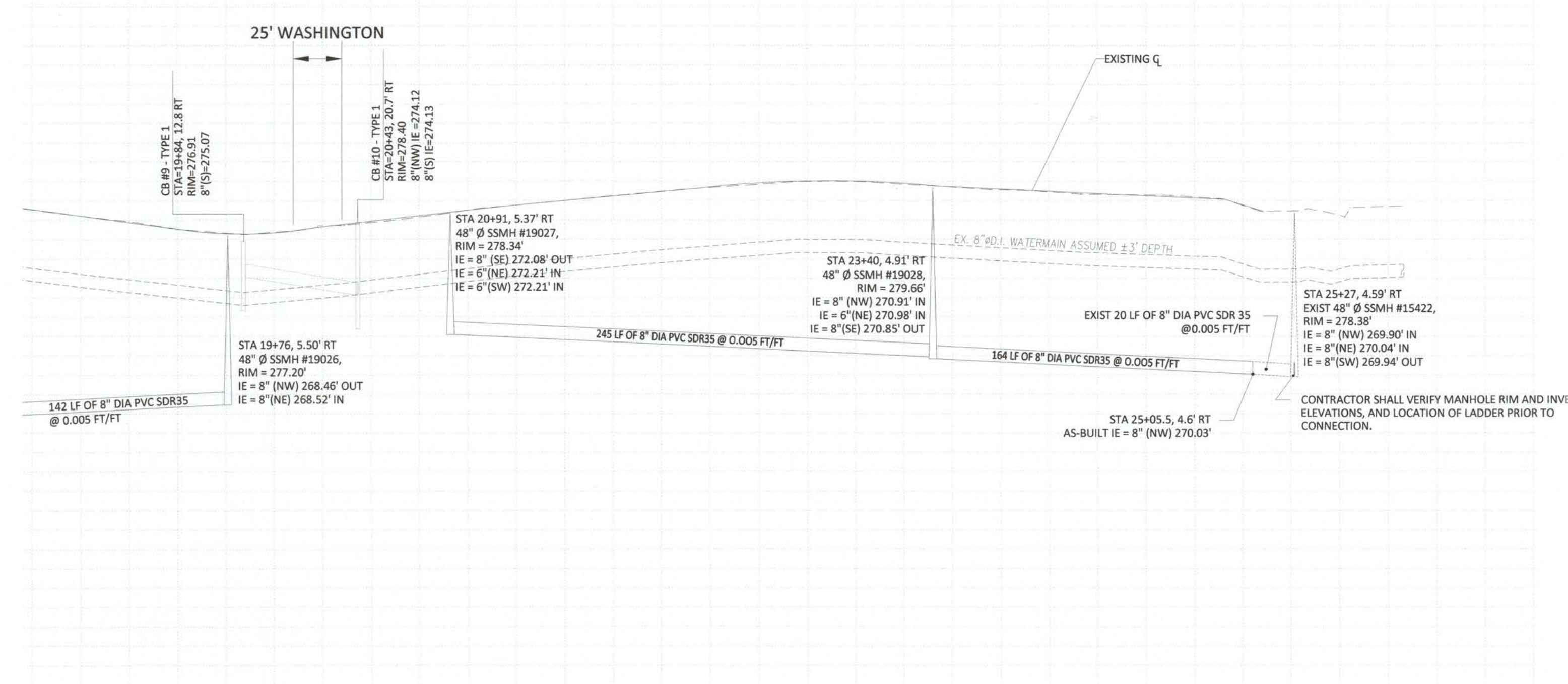
NOTES:
 GRAVITY SIDE SEWERS TO BE INSTALLED AT 5-FOOT MINIMUM DEPTH
 GRAVITY SIDE SEWERS SHALL BE INSTALLED AT MINIMUM 2% SLOPE



EGCL 278.21' FGCL 278.21'	EGCL 277.38' FGCL 277.38'	EGCL 278.50' FGCL 278.50'	EGCL 279.46' FGCL 279.46'	EGCL 279.98' FGCL 279.98'	EGCL 279.45' FGCL 279.45'	EGCL 278.76' FGCL 278.76'	EGCL 278.76' FGCL 278.76'
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- SECTION NOTES**
- 2" GRIND AND HMA CLASS 2 PG 58H-22 INLAY
 - REPLACE HMA WEDGE CURB
 - EXISTING GRAVEL SHOULDER TO REMAIN; REBUILD WHERE DISTURBED
 - EXISTING CONCRETE SIDEWALK TO REMAIN
 - EXISTING ASPHALT ROADWAY TO REMAIN



MAPLE ST SW PLAN AND PROFILE:
 HORIZONTAL SCALE 1"=50' ON 22" X 34"
 VERTICAL SCALE: 1"=5' ON 22" X 34"



STANDARD DETAIL NOTE
 PIERCE COUNTY STANDARD DETAILS CITED IN THESE PLANS HAVE BEEN INCLUDED IN THE PROJECT SPECIFICATIONS. THEY CAN ALSO BE ACCESSED VIA THE WEB AT:
<https://www.co.pierce.wa.us/documentcenter/view/884/2012-STANDARD-SANITARY-SEWER-DETAILS?BIDID=>

ROAD RESTORATION NOTE
 ROAD RESTORATION FOR THIS PROJECT TO BE CONSTRUCTED PER "MAPLE STREET ROAD RESTORATION PLANS"

FLOOD PLAIN NOTE:
 PROJECT DOES NOT LIE WITHIN A 100-YEAR FLOOD PLAIN AS DEFINED BY FEMA AS OF THE DATE OF THESE PLANS.

VERTICAL DATUM
 DATUM BASED ON NAVD 88
 WASHINGTON STATE PLANE COORDINATE SYSTEM,
 SOUTH ZONE, 4602, NAD 83/91. HORIZONTAL AND VERTICAL CONTROL CONSTRAINED TO
 WSDOT CONTROL POINTS IS27171 AND FS2788 WITH A COMBINED SCALE FACTOR OF 0.999949855


NO.	RELEASE/REVISION	DATE	BY

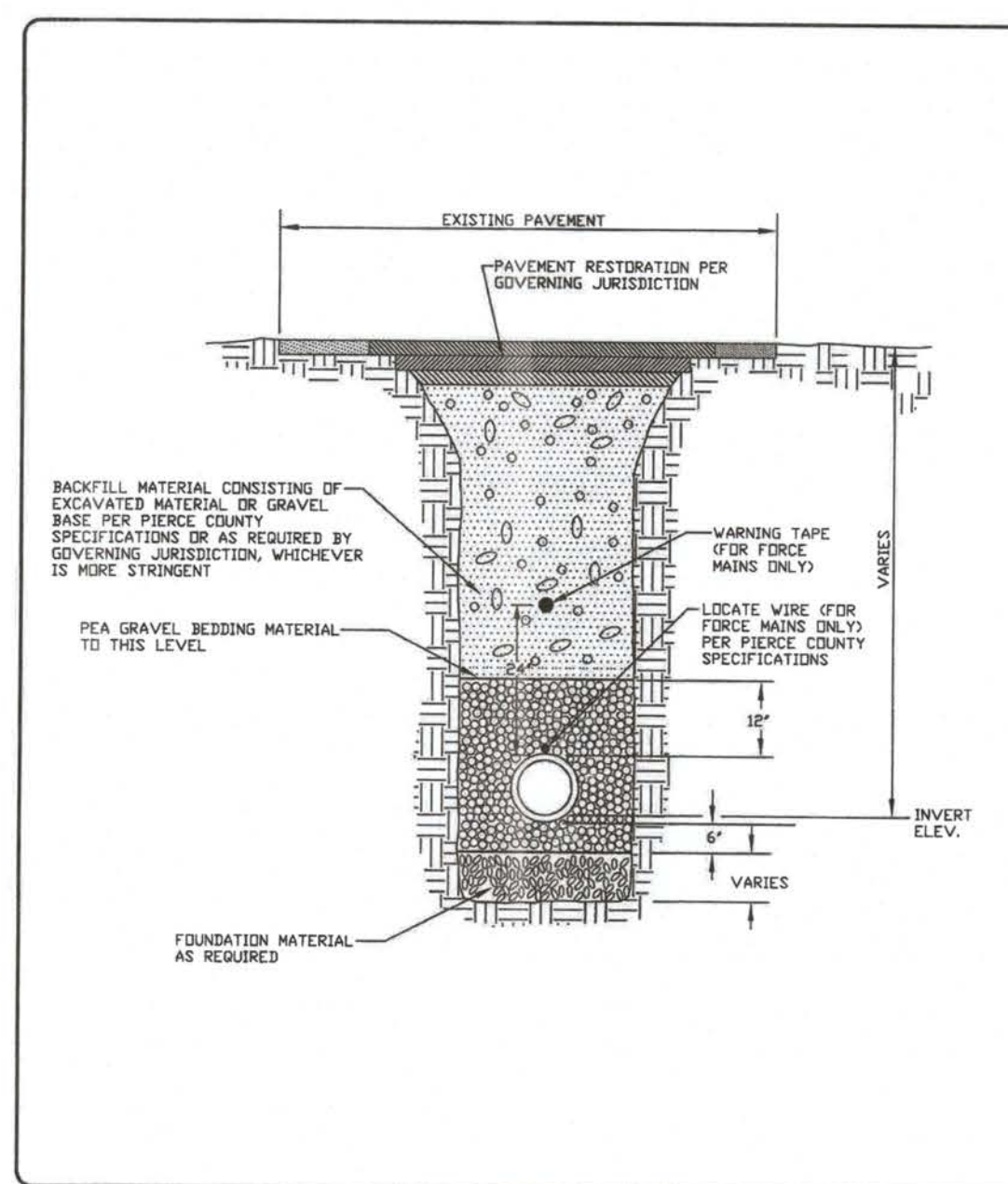
 CITY OF LAKEWOOD, WA 1996	 A. D. BUCHANAN REGISTERED PROFESSIONAL ENGINEER 5688 4-5-21	PROJECT NAME	PROJECT
		MAPLE STREET PUBLIC SANITARY SEWER EXTENSION	311.0005
DRAWING NAME		DRAWING	SS-2
PLAN AND PROFILE - MAPLE STREET SW - STA. 19+00 TO STA. 26+53		4 of 6	

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MAPLE STREET PUBLIC SANITARY SEWER EXTENSION

SECTION 21, TOWNSHIP 19 N, RANGE 2 E

APPROVED  04-08-2021
 DATE
 WASTEWATER UTILITY MANAGER
 SWLE #950651

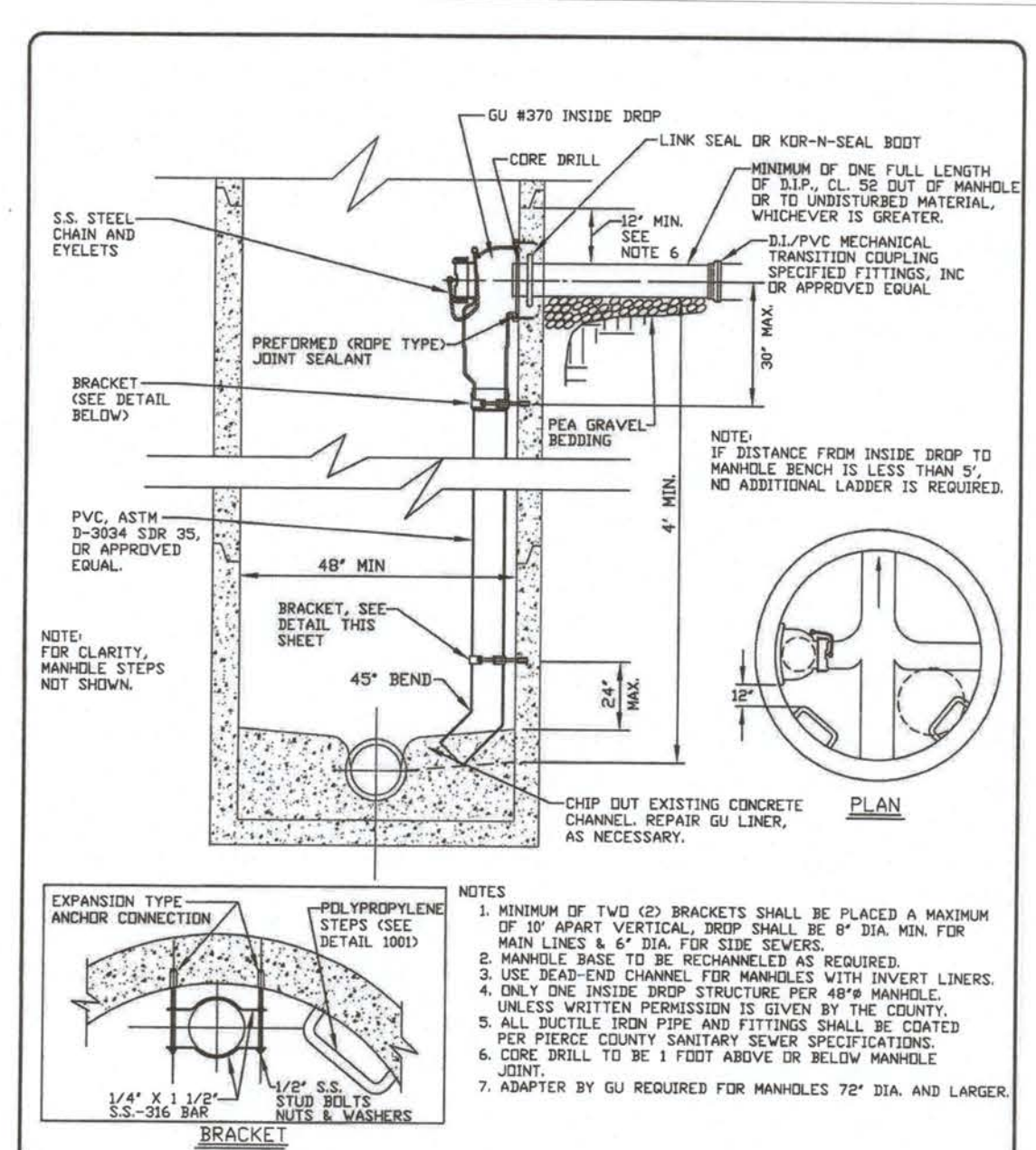


PIERCE COUNTY PUBLIC WORKS & UTILITIES DEPARTMENT
 SEWER UTILITY DIVISION
 UNIVERSITY PLACE, WASHINGTON 98407-1070
 (206) 798-4000

DATE: 06/01/2011
 SCALE: NTS

STANDARD DETAIL NO: 3001
 PAGE 1 OF 1

STANDARD DETAIL NO: 3001
 PAGE 1 OF 1



PIERCE COUNTY PUBLIC WORKS & UTILITIES DEPARTMENT
 SEWER UTILITY DIVISION
 UNIVERSITY PLACE, WASHINGTON 98407-1070
 (206) 798-4000

DATE: 06/01/2011
 SCALE: NTS

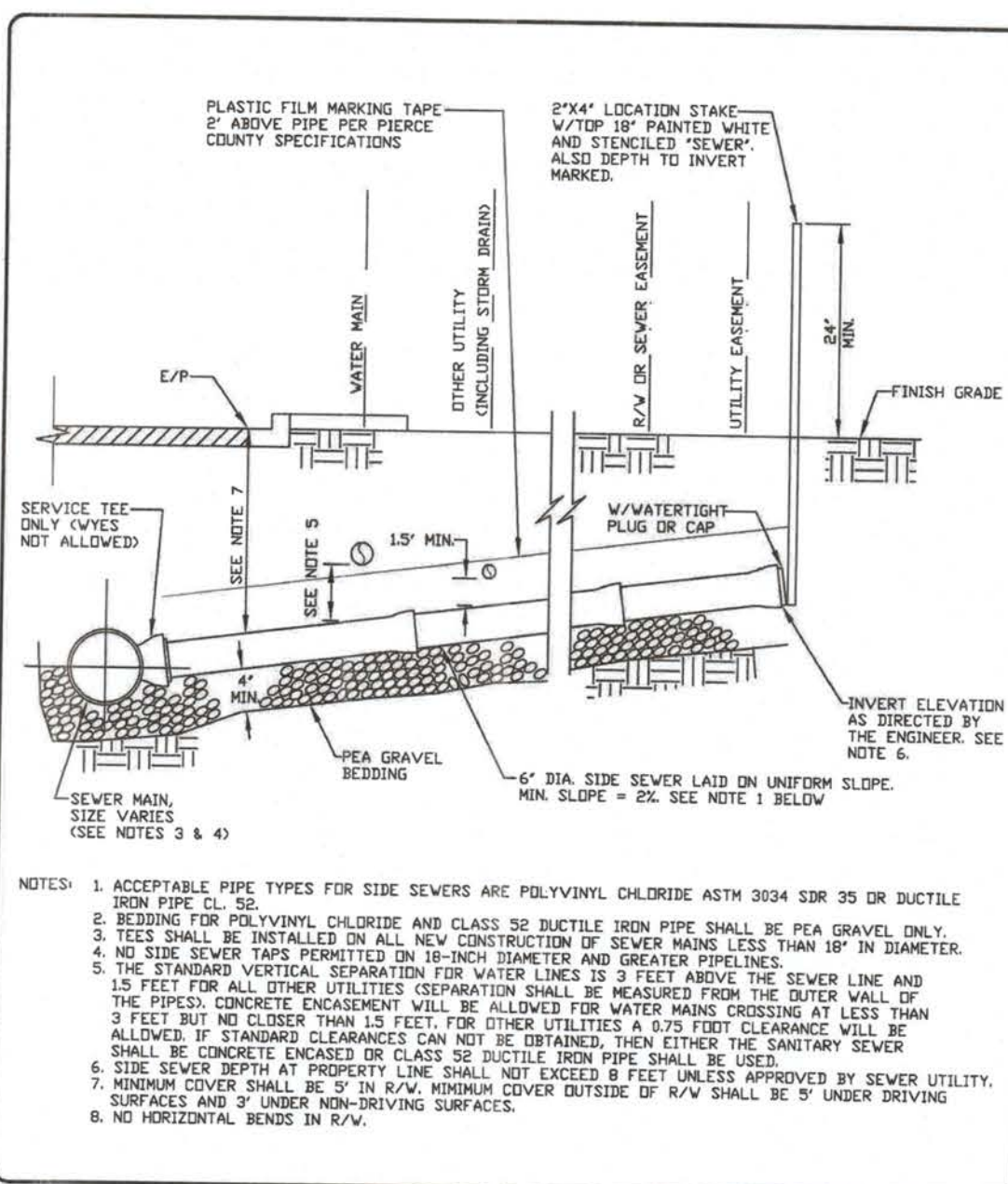
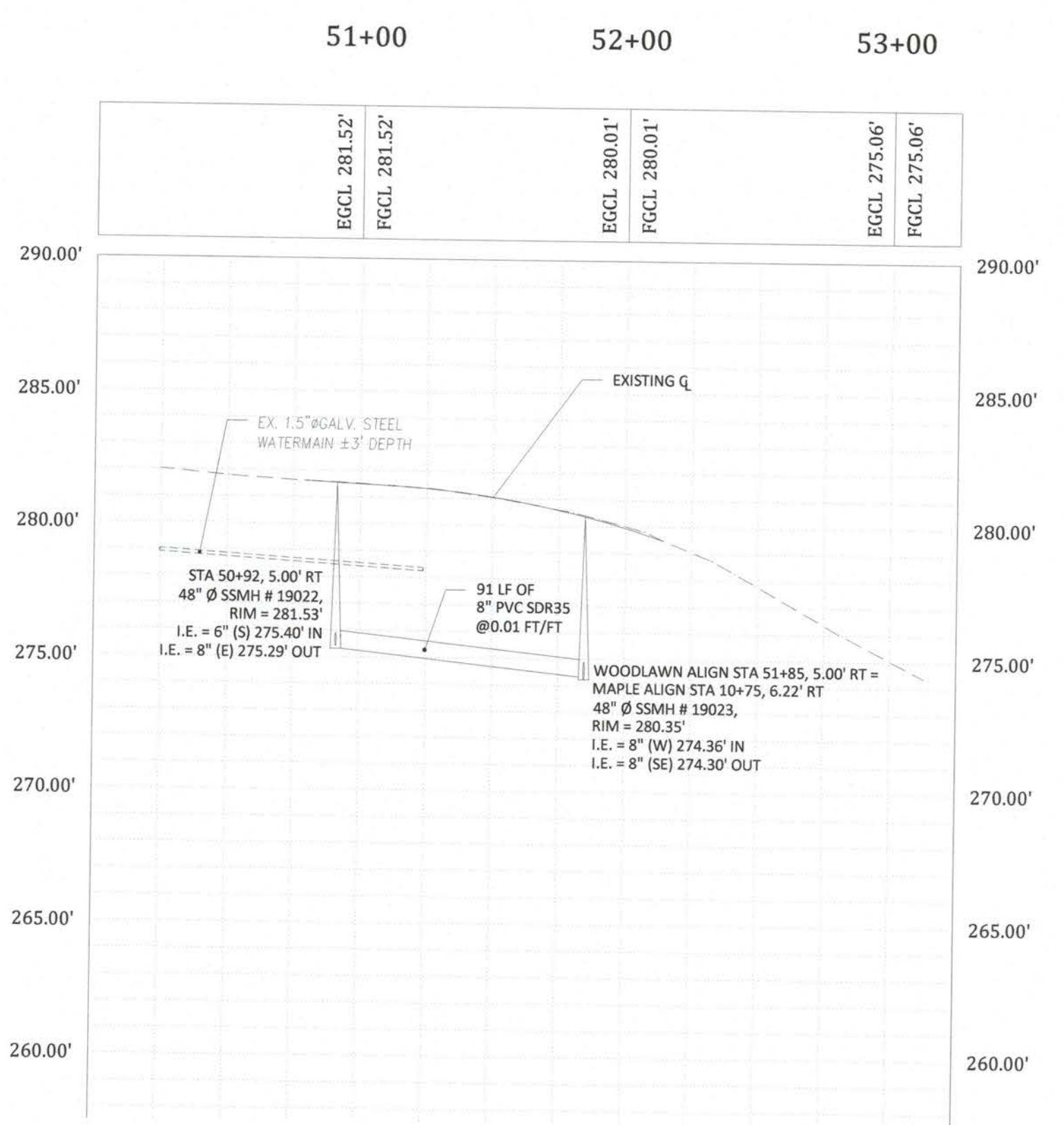
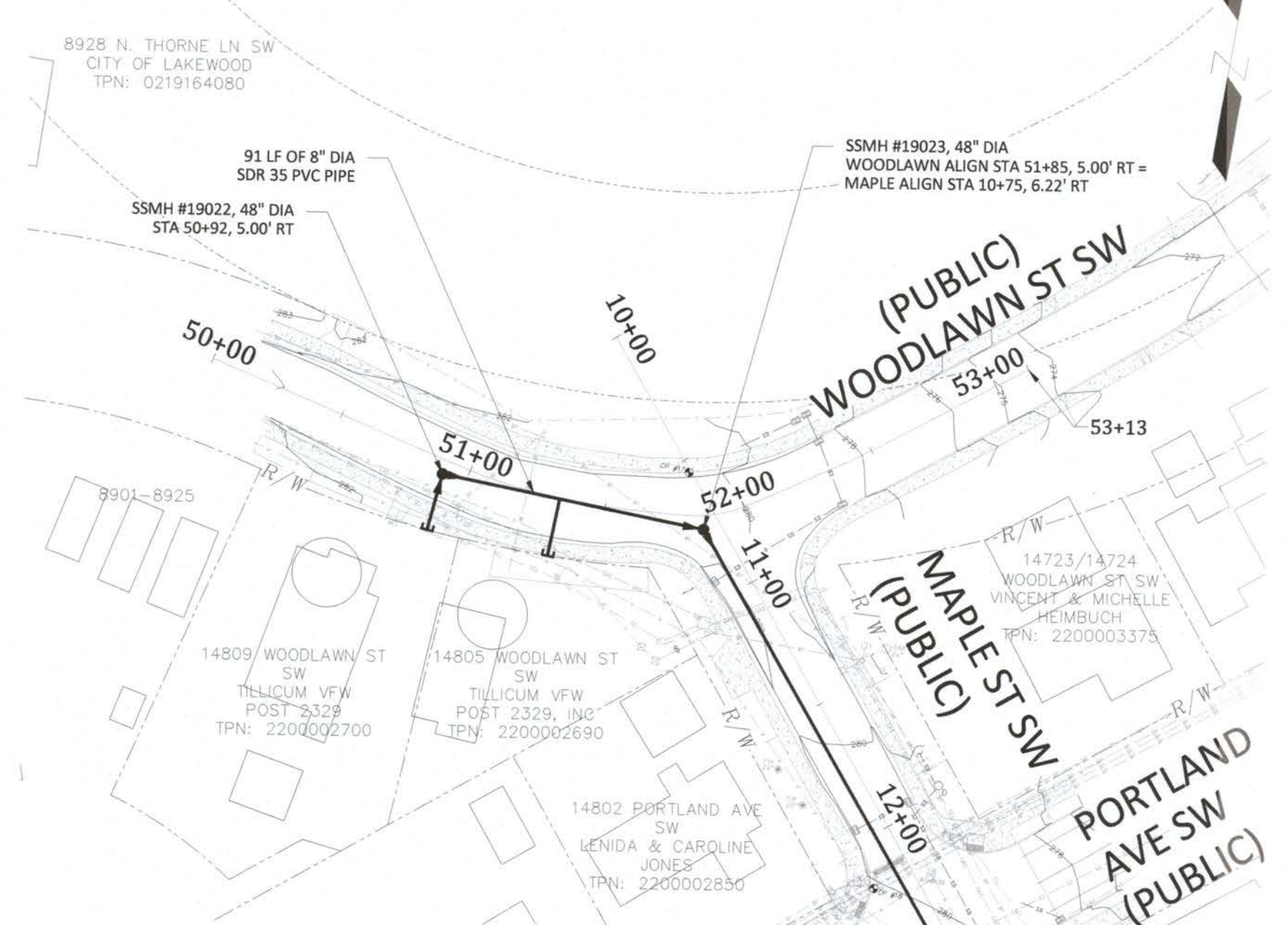
STANDARD DETAIL NO: 2006
 PAGE 1 OF 1

STANDARD DETAIL NO: 2006
 PAGE 1 OF 1

WOODLAWN STREET SW ALIGNMENT
 STA 50+00 TO 53+13

ADDRESS	STATION	DIST TO DWNSTM MH	DWNSTM MH NO.	PIPE TYPE	END IE	LENGTH
14809 WOODLAWN ST SW	50+94	0'	19022	6" SDR 35 PVC	275.55	26'
14805 WOODLAWN ST SW	51+34	51'	19023	6" SDR 35 PVC	275.05	22'

NOTES:
 GRAVITY SIDE SEWERS TO BE INSTALLED AT 5-FOOT MINIMUM DEPTH
 GRAVITY SIDE SEWERS SHALL BE INSTALLED AT MINIMUM 2% SLOPE

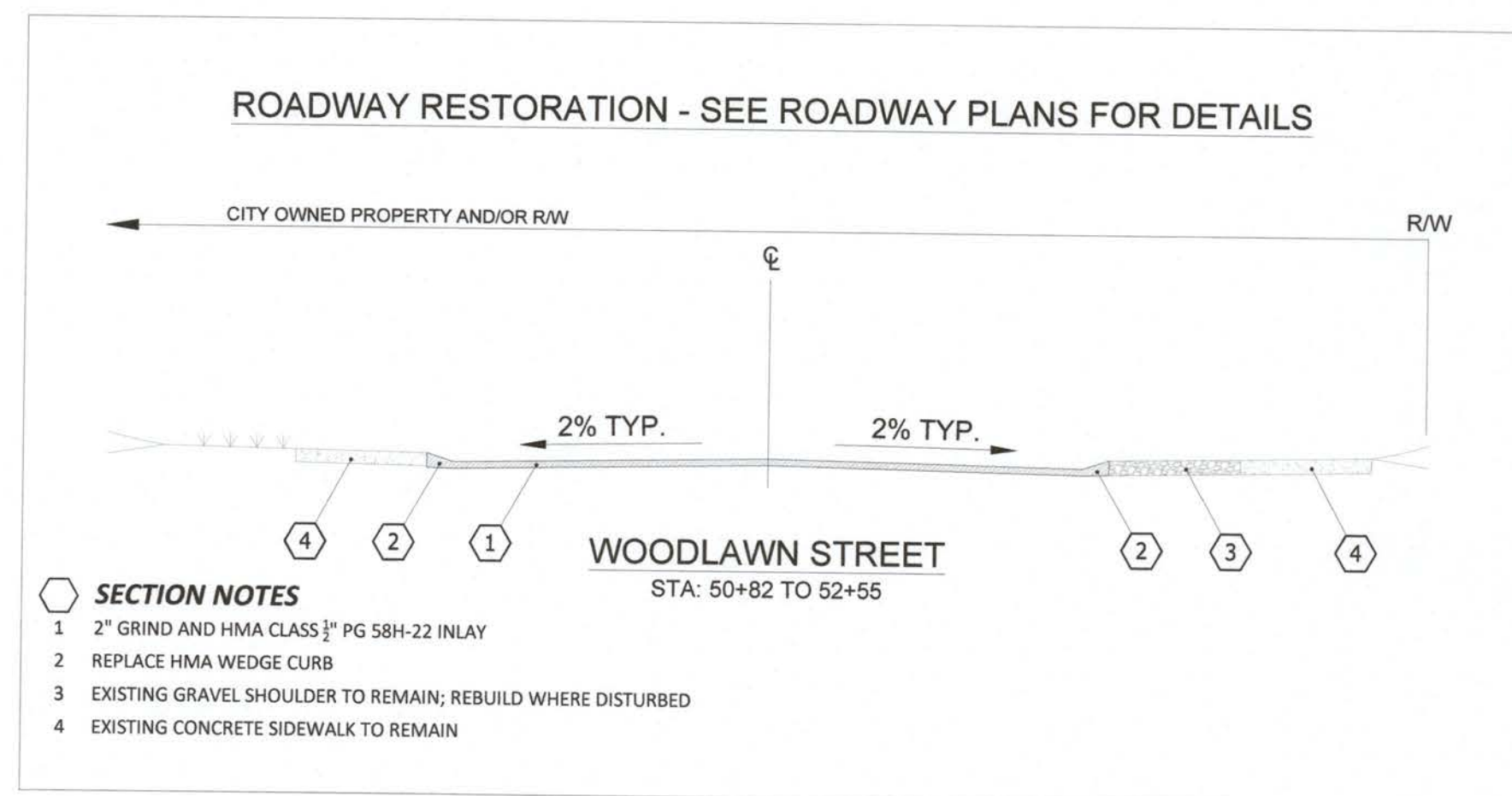


PIERCE COUNTY PUBLIC WORKS & UTILITIES DEPARTMENT
 SEWER UTILITY DIVISION
 UNIVERSITY PLACE, WASHINGTON 98407-1070
 (206) 798-4000

DATE: 06/01/2011
 SCALE: NTS

STANDARD DETAIL NO: 3005
 PAGE 1 OF 1

STANDARD DETAIL NO: 3005
 PAGE 1 OF 1



STANDARD DETAIL NOTE

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FLOOD PLAIN NOTE:

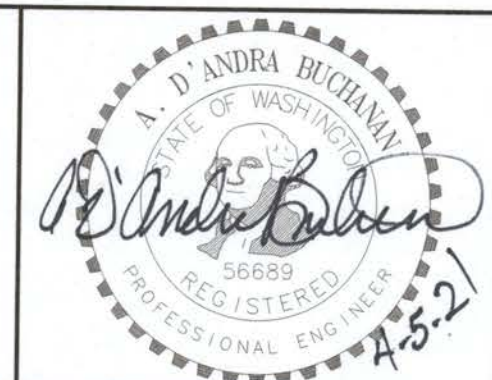
PROJECT DOES NOT LIE WITHIN A 100-YEAR FLOOD PLAIN AS DEFINED BY FEMA AS OF THE DATE OF THESE PLANS.

VERTICAL DATUM

DATUM BASED ON NAVD 88 WASHINGTON STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, 4602, NAD 83/91, HORIZONTAL AND VERTICAL CONTROL CONSTRAINED TO WSDOT CONTROL POINTS HS27171 AND FS2788 WITH A COMBINED SCALE FACTOR OF 0.999949855.

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NO.	RELEASE/REVISION	DATE	BY	PROJECT NAME	PROJECT
				MAPLE STREET PUBLIC SANITARY SEWER EXTENSION	311.0005
				PLAN AND PROFILE - WOODLAWN ST SW - STA. 50+00 TO STA 53+13	SS-3
					5 of 6

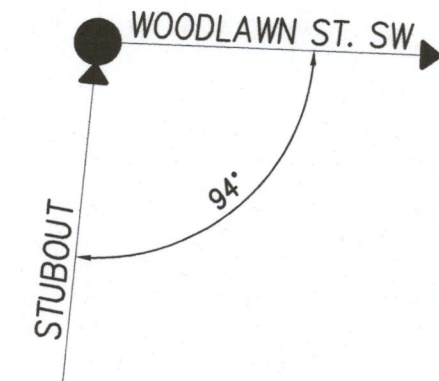


A. D. BUCHANAN, P.E.
 PROJECT ENGINEER
 A. D. BUCHANAN, P.E.
 DESIGN ENGINEER
 TIM MOTOH, E.I.T.
 DRAWN BY
 PAUL A. BUCICH, P.E.
 PUBLIC WORKS ENGINEERING DIRECTOR
 DESIGN START SCALE
 APRIL 2020 AS SHOWN

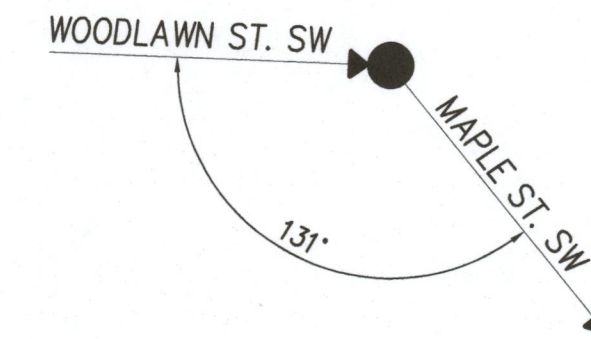
MAPLE STREET PUBLIC SANITARY SEWER EXTENSION

SECTION 21, TOWNSHIP 19 N, RANGE 2 E

APPROVED 04-08-2021
WASTEWATER UTILITY MANAGER DATE
PLAN APPROVAL EXPIRES THREE (3) YEARS FROM THE DATE OF APPROVAL
 SWLE #950651



S.S.M.H. #19022, 48"Ø
 WOODLAWN ST. SW STA. 50+92, 5.0'RT
 RIM EL.=281.53'
 IE= 8"(S) 275.40'(IN)
 IE= 8"(E) 275.29'(OUT)



S.S.M.H. #19023, 48"Ø
 MAPLE ST. SW STA. 10+75, 6.2'RT
 RIM EL.=280.35
 IE= 8"(NW) 274.36'(IN)
 IE= 8"(SE) 275.30'(OUT)

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NO.	RELEASE/REVISION	DATE	BY	A. D. BUCHANAN, P.E. PROJECT ENGINEER	PROJECT NAME	PROJECT
△				A. D. BUCHANAN, P.E. DESIGN ENGINEER	MAPLE STREET PUBLIC SANITARY SEWER EXTENSION	311.0005
△				TIM MOTOH, E.I.T. DRAWN BY		SS-4
△				PAUL A. BUCICH, P.E. PUBLIC WORKS ENGINEERING DIRECTOR	INTERIOR ANGLE DETAILS FOR NON-STANDARD (90°) MANHOLE INSERTS	6 of 6
△				DESIGN START SCALE APRIL 2020 AS SHOWN		

