



CONSTRUCTION OF A S.T.E.P (SEPTIC TANK EFFLUENT PUMP) SMALL DIAMETER FORCE MAIN WITHIN **CANTERWOOD DEVELOPMENT**, **PIERCE COUNTY, WASHINGTON SERVING** THE PROPOSED RESIDENCES (71 ERU) **OF CANTERWOOD DIVISION 12**

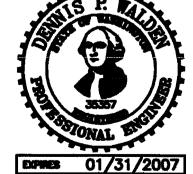
PROJECT SITE (CANTERWOOD DIV 12) SEE SHEETS C-10 TO C-13 ENT

		/ CANTERWOOD DEVELOPMEN
••••••••••••••••••••••••••••••••••••••		SPECIAL PROJECT SPECIFICATIONS
-	1.	ALL S.T.E.P. MAINS SHALL BE FIELD STAKED FOR GRADES AND ALIGNMENT BY A LICENSED ENGINEERING OR SURVEYING FIRM QUALIFIED TO PERFORM
•	2.	CITY OF GIG HARBOR DATUM SHALL BE USED FOR ALL VERTICAL CONTROL. A LIST OF BENCHMARKS IS AVAILABLE AT THE PUBLIC WORKS
/	_ 3.	ALL APPROVALS AND PERMITS REQUIRED BY THE CITY OF GIG HARBOR SHALL BE OBTAINED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION.
/	4.	IF CONSTRUCTION IS TO TAKE PLACE IN THE COUNTY RIGHT-OF-WAY, THE CONTRACTOR SHALL NOTIFY THE COUNTY AND OBTAIN ALL THE REQUIRED APPROVALS AND PERMITS.
	5.	A PRECONSTRUCTION MEETING SHALL BE HELD WITH THE CITY OF GIG HARBOR CONSTRUCTION INSPECTOR PRIOR TO THE START OF CONSTRUCTION.
	6.	THE CITY OF GIG HARBOR CONSTRUCTION INSPECTOR SHALL BE NOTIFIED A MINIMUM OF 48 HOURS IN ADVANCE OF A DISCHARGE CONNECTION TO EXISTING MANHOLE AT BAKER WAY. THE INSPECTOR SHALL BE PRESENT A TIME OF THE CONNECTION
I	7.	THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION BY CALLING THE UNDERGROUND LOCATE LINE AT 1-800-424-5555 A MINIMUM OF 48 HOUR PRIOR TO ANY EXCAVATION.
	8.	GRAVITY SEWER MAIN SHALL BE PVC, ASTM D 3034 SDR 35 OR ASTM F 78 WITH JOINTS AND RUBBER GASKETS CONFORMING TO ASTM D 3212 AND
	9.	THE CONTRACTOR SHALL COORDINATE WITH ASPEN LAND SURVEYING IN PROVIDING AS-BUILT CONTROL MONUMENTS. PERMANENT MONUMENTS TO CONSIST OF MIN 3" X 3" X 24" CONCRETE POSTS INSTALLED FLUSH TO THE GROUND. MONUMENTS TO BE INSTALLED AT ALL ANGLE POINTS AND BE INTERVISIBLE. MAXIMUM SPACING TO BE 300'.
7	10.	TEMPORARY STREET PATCHING SHALL BE ALLOWED FOR AS APPROVED BY THE CITY ENGINEER. TEMPORARY STREET PATCHING SHALL BE PROVIDED BY PLACEMENT AND COMPACTION OF 1 INCH MAXIMUM ASPHALT CONCRETE COLD MIX. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE AS REQUIRED.
	11.	EROSION CONTROL MEASURES SHALL BE TAKEN BY THE CONTRACTOR DURING CONSTRUCTION TO PREVENT INFILTRATION OF EXISTING AND PROPOSED STORM DRAINAGE FACILITIES AND ROADWAYS.
	12.	PROVIDE TRAFFIC CONTROL PLAN(S) IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AS REQUIRED.
	13.	IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE A COPY OF THESE APPROVED PLANS ON THE CONSTRUCTION SITE AT ALL TIMES.
	14.	ANY CHANGES TO THE DESIGN SHALL FIRST BE REVIEWED AND APPROVED BY THE PROJECT ENGINEER AND THE CITY OF GIG HARBOR.
	15.	PARALLEL SEWER AND WATER LINES MUST HAVE 10 FEET OF HORIZONTAL SEPARATION.
	16.	ALL SEWER LINES CROSSING WATER LINES MUST HAVE PROPER VERTICAL

17. PIPE DEFLECTION TO CONSTRUCT SERVICE LINES AND/OR FORCE MAINS SHALL CONFORM TO MANUFACTURES SPECIFICATIONS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN THE EVENT OF DISCOVERY OF POOR SOILS, STANDING GROUNDWATER OR DISCREPANCIES FROM THE PLANS IN GRADES, LOCATIONS AND CONSTRUCTION OF UTILITIES, STRUCTURES AND OTHER EXISTING CONDITIONS. THE CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION OF CONNECTION PRIOR TO CONSTRUCTION.

THE SEWER LINES, FORCE MAINS, AND GRINDER PUMP SYSTEMS SHALL 18 REMAIN UNDER THE OWNERSHIP OF THE CANTERWOOD DIVISION 12 STEP ASSOCIATION WHO SHALL BE RESPONSIBLE FOR THE OPERATION AND MAINTENANCE OF THE PRIVATE SEWER SYSTEM.

AS-BUILT



COVER SHEET

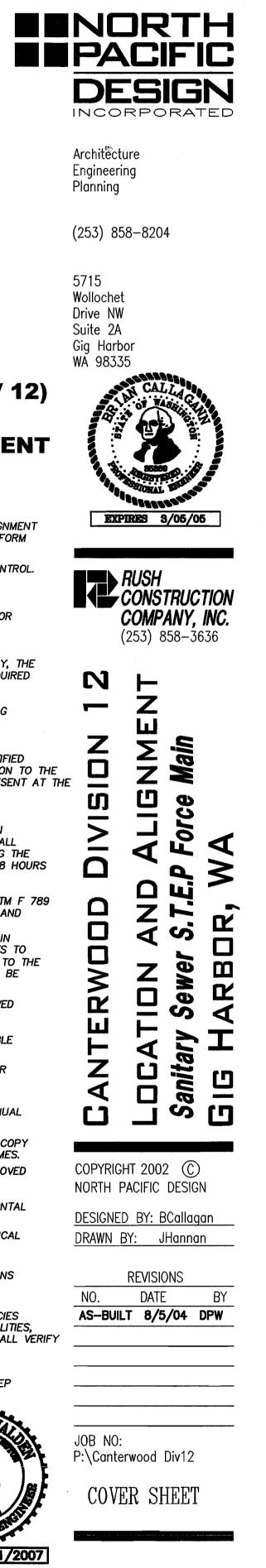
DRAWING"

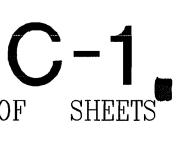
OPERATIONS AND ENGINEERING BY:



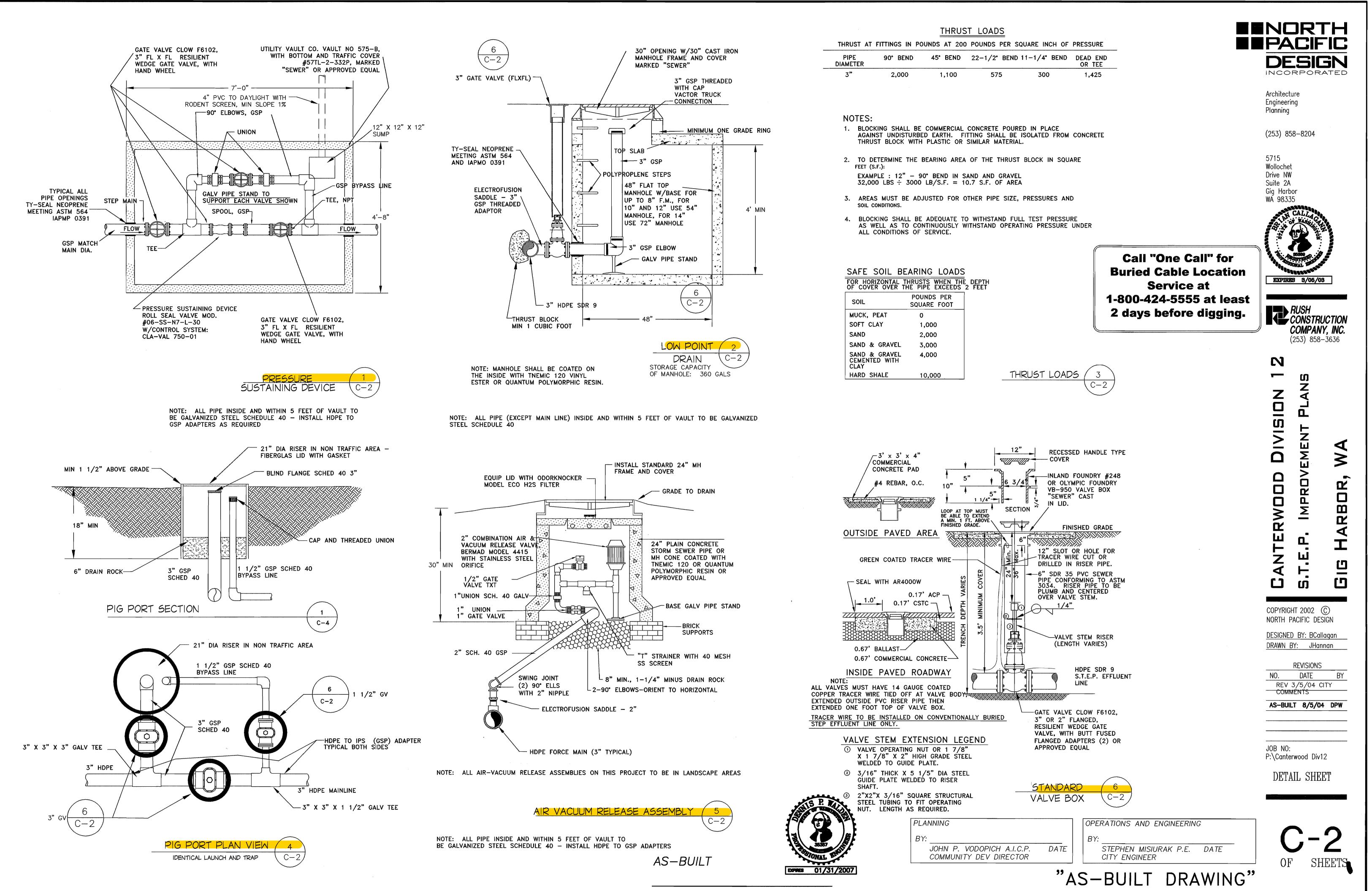
"AS-BUILT

CLEARANCE OF 18" MINIMUM



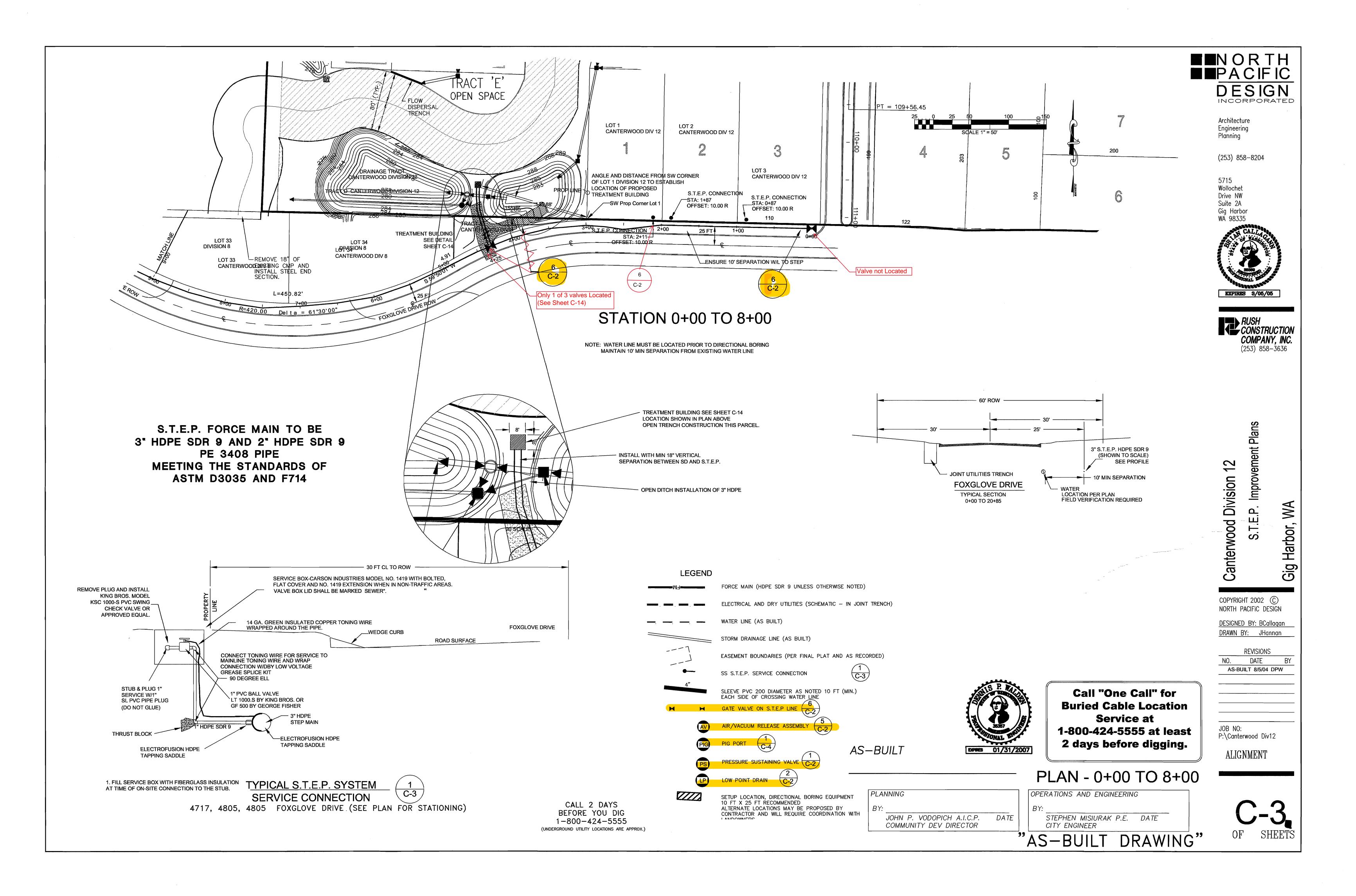


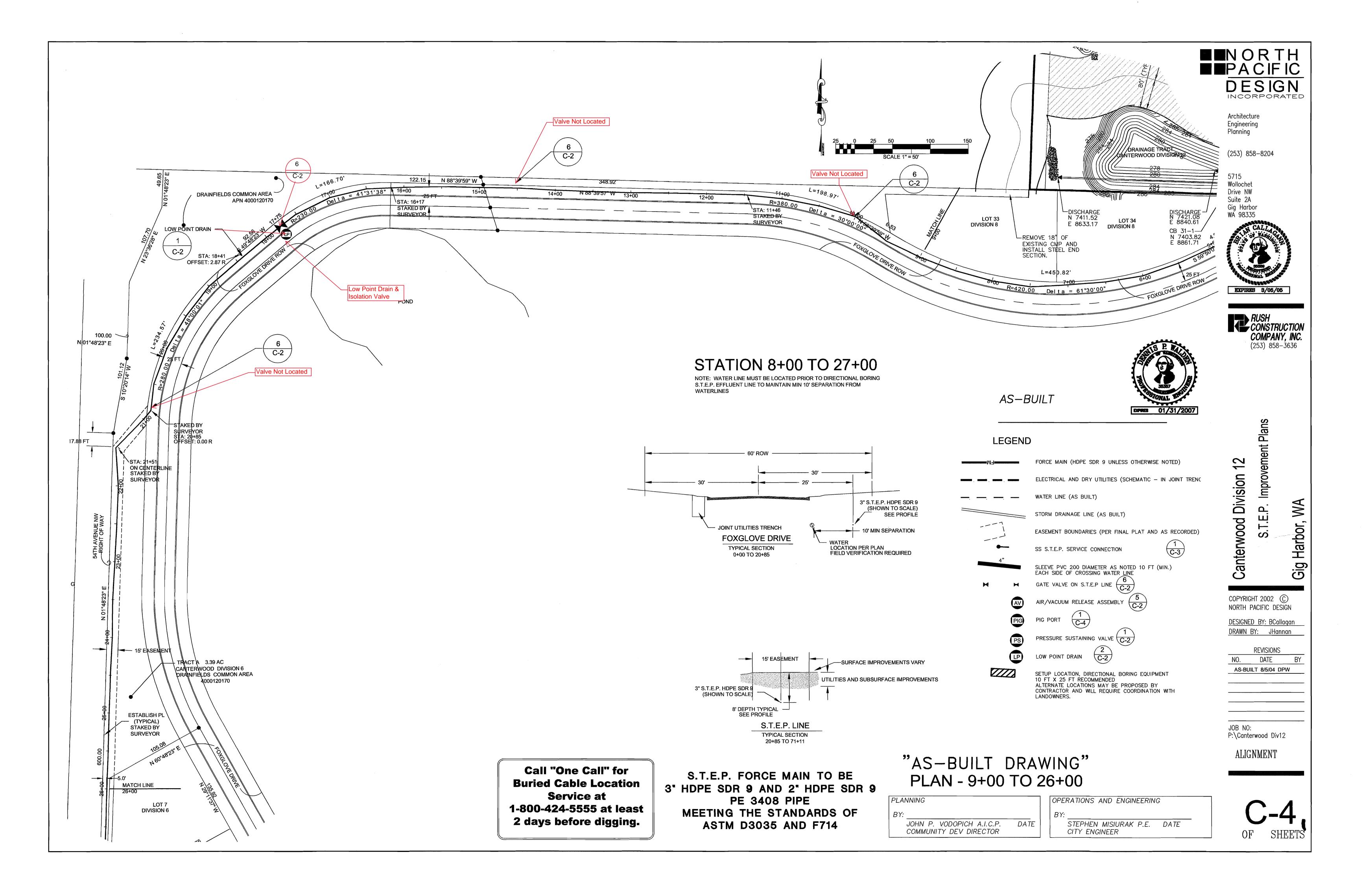
DATE

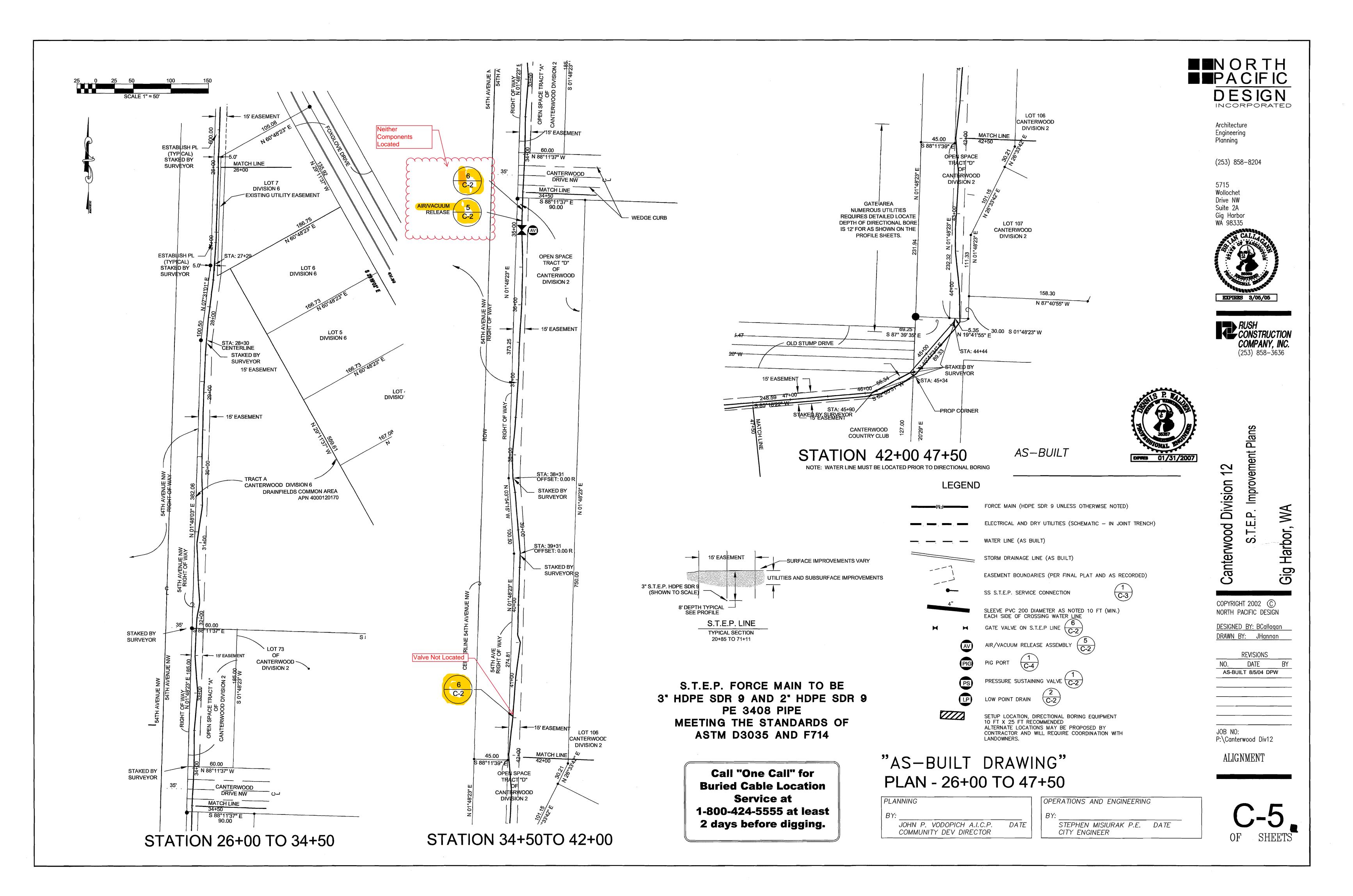


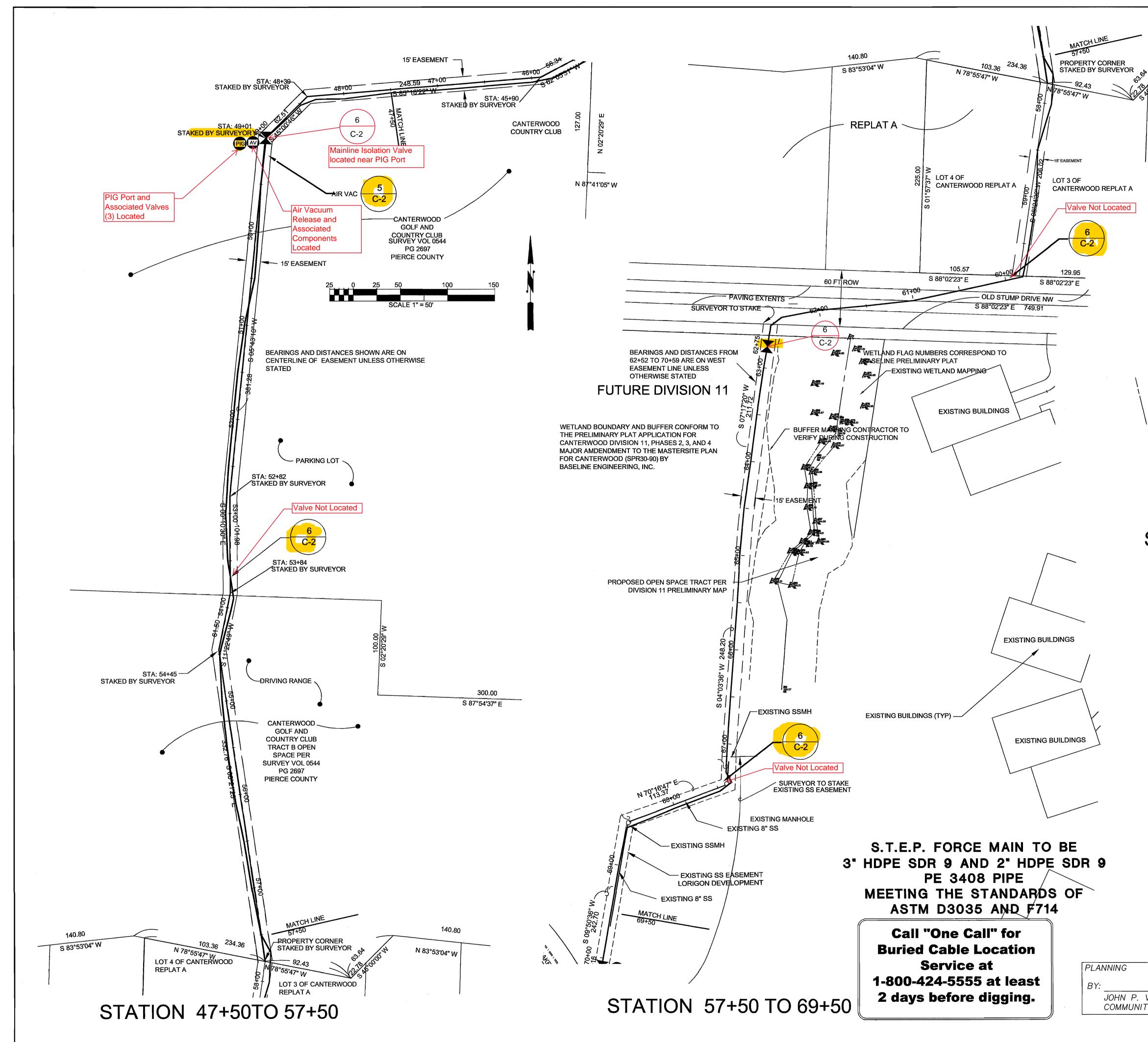
IHRUSI AI	FITTINGS IN	PUUNDS A	AT 200 I
PIPE DIAMETER	90° BEND	45°	BEND
ז"	2 000	1	100

NO	TES:
1.	BLOCKING SHALL BE COMMERCIA AGAINST UNDISTURBED EARTH. THRUST BLOCK WITH PLASTIC O
2.	TO DETERMINE THE BEARING AR FEET (S.F.): EXAMPLE : $12" - 90°$ BEND IN 32,000 LBS ÷ 3000 LB/S.F. =
3.	AREAS MUST BE ADJUSTED FOR SOIL CONDITIONS.
4.	BLOCKING SHALL BE ADEQUATE

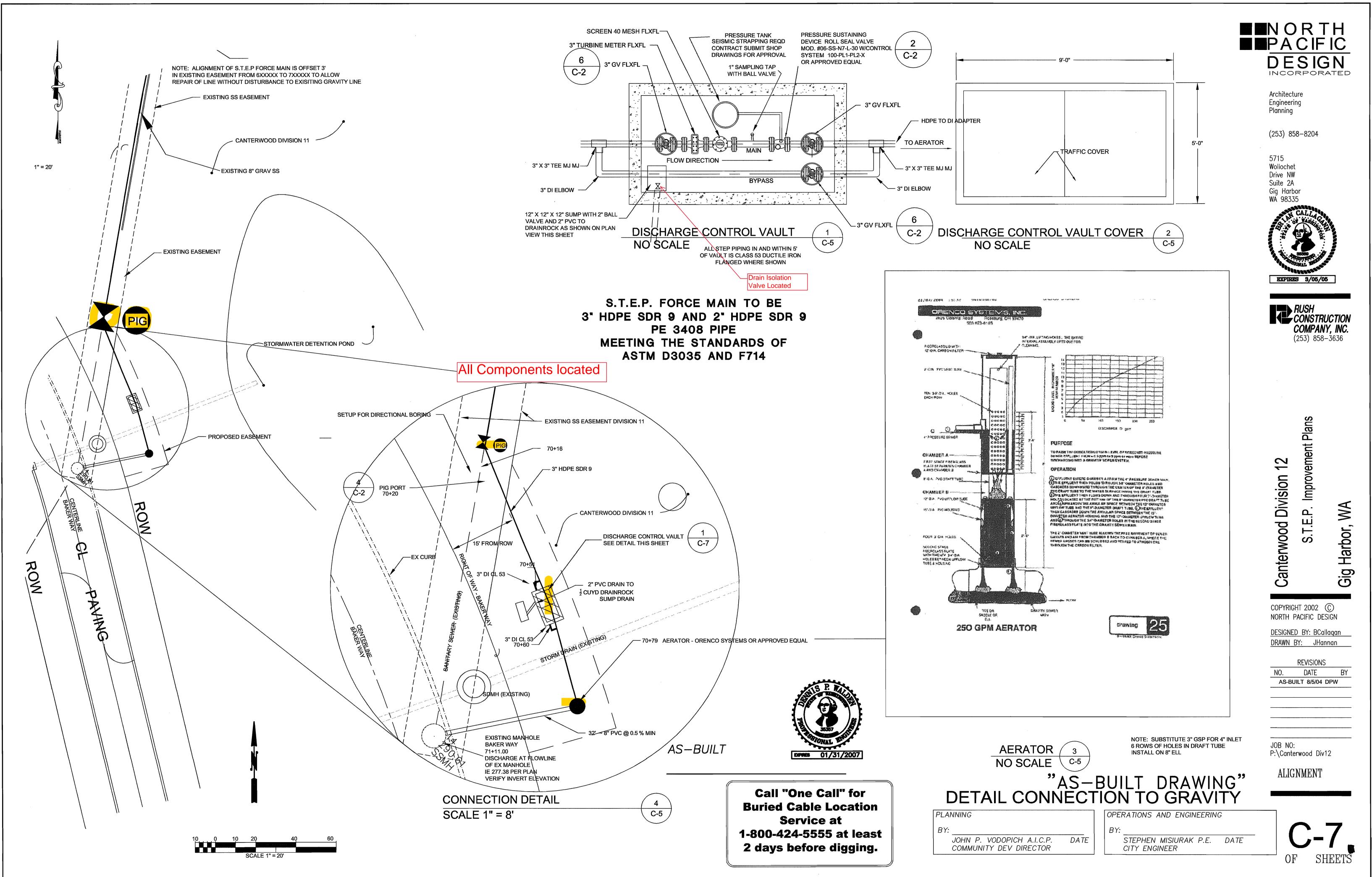






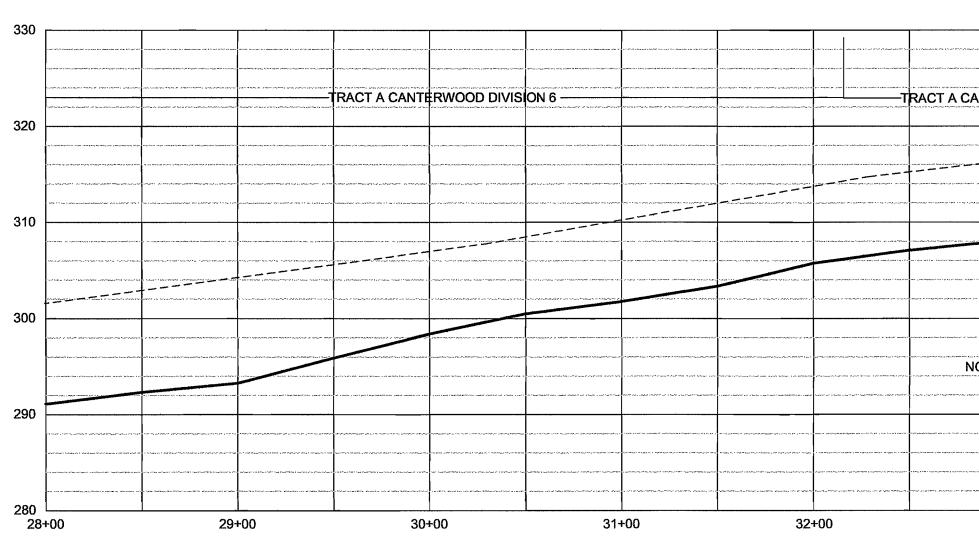


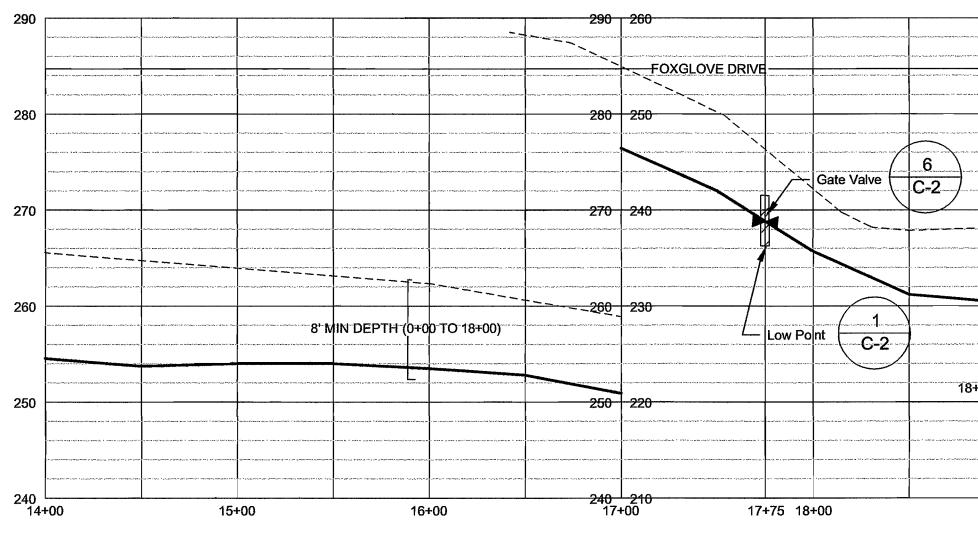
		NORTH PACIFIC
SOUDIT	EXISTING SS EASEMENT LORIGON DEVELOPMENT EXISTING 8" SS	DESIGN INCORPORATED Architecture Engineering Planning
70+00 S 09650'36" W.	MATCH LINE 69+50 SURVEYOR TO STAKE EXISTING SS EASEMENT See Next Sheet	(253) 858-8204 5715 Wollochet Drive NW Suite 2A Gig Harbor
CONTRUCT 32 LF 8' GRAVITY 55	SEE DETAIL SHEET C-7 STA 70+79 AERATOR END FORCE MAIN 22.50 N74°07'20"	WA 98335
ROM PATHA	22.50 N74°07'20" SSMH (EXIST) RIM 290.8 IE 277.1 STA 71+11 END PROJECT	EXPIRES 3/05/05
		COMPANY, INC. (253) 858–3636
STATION 69+5	$50 TO 71 \pm 11$	ent Plans
	-BUILT	Division 12 .P. Improvement Plans NA
ELECTR	MAIN (HDPE SDR 9 UNLESS OTHERWISE NOTED) ICAL AND DRY UTILITIES (SCHEMATIC - IN JOINT TRENCH) LINE (AS BUILT) DRAINAGE LINE (AS BUILT)	Canterwood Di S.T.E.P. Gig Harbor, W
4" SI FEVE	NT BOUNDARIES (PER FINAL PLAT AND AS RECORDED) E.P. SERVICE CONNECTION PVC 200 DIAMETER AS NOTED 10 FT (MIN.) IDE OF CROSSING WATER LINE	COPYRIGHT 2002 © NORTH PACIFIC DESIGN DESIGNED BY: BCallagan
M M GATE V	VALVE ON S.T.E.P LINE 6 C-2 CUUM RELEASE ASSEMBLY 5 C-2	DRAWN BY: JHannan REVISIONS NO. DATE BY AS-BUILT 8/5/04 DPW
LOW PO LOW PO SETUP 10 FT 2 ALTERN CONTRA	URE SUSTAINING VALVE C-2 DINT DRAIN 2 LOCATION, DIRECTIONAL BORING EQUIPMENT (25 FT RECOMMENDED ATE LOCATIONS MAY BE PROPOSED BY ACTOR AND WILL REQUIRE COORDINATION WITH	JOB NO: P:\Canterwood Div12
"AS-BU		ALIGNMENT
	OPERATIONS AND ENGINEERING	

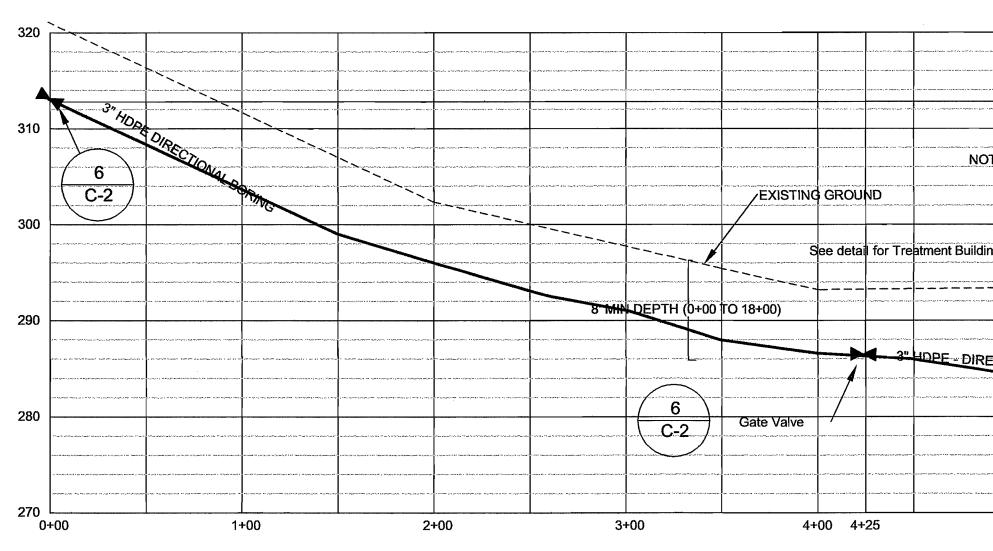


S.T.E.P. FORCE MAIN TO BE 3" HDPE SDR 9 AND 2" HDPE SDR 9 PE 3408 PIPE MEETING THE STANDARDS OF ASTM D3035 AND F714

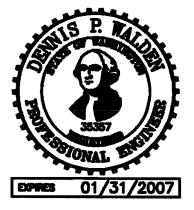
ALL STEP PIPE SHOWN ON THIS SHEEET IS TO BE INSTALLED BY DIREC







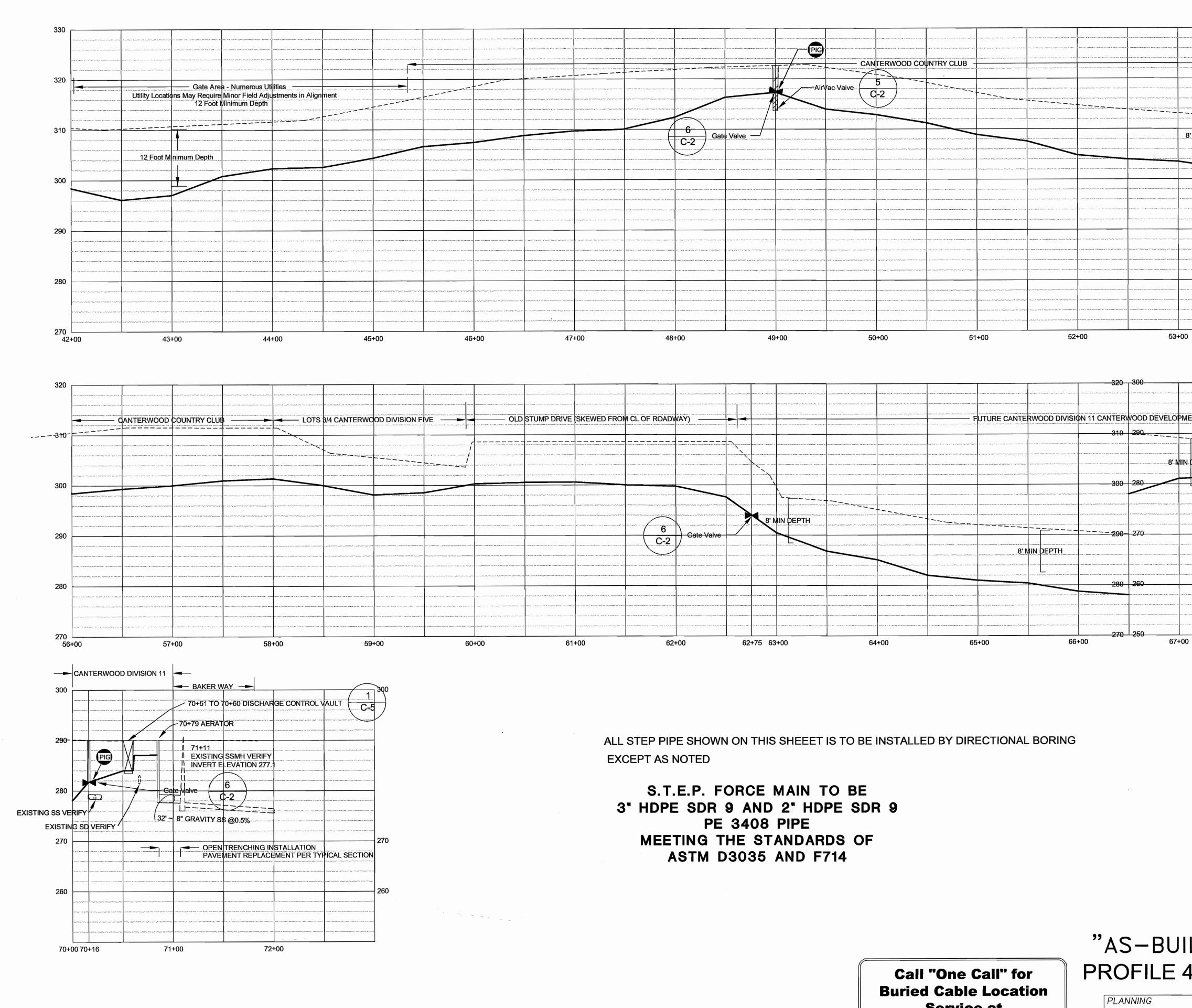
-



AS–BUILT	25357 25577 255777 255777 255777 255777 255777 255777 255777 255777 2557777 2557777 25577777777	Service at 1-800-424-5555 a 2 days before di	at least	PLANNING BY: JOHN P. VO COMMUNITY	DATE OF SHI		
CTIONAL BORING		Call "One Call" for Buried Cable Location			ALIGNMENT		
3+00 34+00	35+00	36+00 37+00) 38+00) 39-	-00 40+00	41+00	JOB NO: P:\Canterwood Div12
							290
E: TOPOGRAPHY IS APPROXIMATE. DI	EPTH OF LINE BELOW \$URFACE IS CONS						
		C-2					REVISIONS NO. DATE 300 AS-BUILT 8/5/04 D
							310 DRAWN BY: JHann
	AIRVAC	VALVE					NORTH PACIFIC DESI
ERWOOD DIVISION 2			TRACT D CA	NTERWOOD DIVISION 6			COPYRIGHT 2002
	CANTERWOOD DRIVE						Cante #
9+00 20+00	21+00	210 24 22+00 23+00	0 240 2 2 24 1 00	60 25+	-00 26+00	27+00	in diama dia
							Division ²⁰⁰ ²⁰⁰ ²⁰⁰
		220-25	0 250 2				ision 12 Improvement Plans
		230 26	0 260 2	80			ent P
	3' MIN DEPTH (18+50 TC 34+50)			······································			ans
		240 27	0 270 2	90			290
					6		
		260 29	0 290 3	10			310 CONSTRUC COMPANY (253) 858-3
6+00		240	10+00) 11-	-00 12+00	13+00	240 14+00 EXPIRES 3/05/05
		200					250
TIONAL BORING	280	250					CALLA
· · · · · · · · · · · · · · · · · · ·	290 2	260					260 Gig Harbor WA 98335
							Suite 2A

3+00 :	4+00 3	35+00	36+00 Call "One C Buried Cable Service 1-800-424-555	Location at	38+00 PLANNING		41+00 T DRAWING" +00 TO 42+00 OPERATIONS AND ENGINEERIN	JOB NO: P:\Canterwood Div12 ALIGNMENT
TOPOGRAPHY IS APPROX	MATE. DEPTH OF LINE BELOW	/ \$URFACE IS CONS						
			ALVE 6 alve 6 C-2					DESIGNED BY: BCallagan 310 DRAWN BY: JHannan REVISIONS NO. DATE 300 AS-BUILT 8/5/04 DPW
RWOOD DIVISION 2					TRACT D CANTERWOOD DIVISION	8		320 COPYRIGHT 2002 C NORTH PACIFIC DESIGN
		WOOD DRIVE			I			Canterwood S.T. Canterwood S.T. S. Canterwood
-00 ź	0+00 2	21+00		20 230 240 23+00	230 270 240 260 24 00	25+00 26+00	27+00	
				230 260	260 280			ision 12 Improvement Plans
		C 34+50		40 270	270 -290			- 290
				280	TRACT A CANTERWOOD DIVI	SION 6		(253) 858–3636
+00	5+00 .	270 2 7+00	40 8+00	9+00 260 290	10+00	11+00 12+00	13+00	240 14+00 EXPIRES 3/05/05 EXPIRES 3/05/05 E
			50					
TIONAL BORING		290 2	60					Drive NW Suite 2A Gig Harbor WA 98335

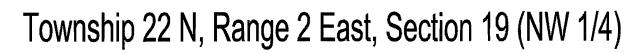
CTIONAL BC		A STATE	P MALLER	Call ' Buried S 1-800-42	'One Ca Cable Lo Service a 24-5555	II" for ocatior at	n st	PLANNING	"/	S-BL OFILE	JILT 0+0(DRA D TO	WING	")	ALIGNMENT
33+00	34+00	35+	+00	36+00	37+	-00	38+00		39+00	40	+00	41	+00		JOB NO: P:\Canterwood Div12
						, , , , , , , , , , , , , , , , , , ,								290	
DTE: TOPOGRAPH	IS APPROXIMATE. DEPTH O	F LINE BELOW \$	SURFACE IS CONSTRUC											300-	AS-BUILT 8/5/04 DPV
аль, альнала тара с альна таратар арандар арандар аландар ал тара ал тара ал тара ал тара ал тара ал тара тара			Gate Valve	-6 C-2		1 angladalah (a. 1) ang (a. 1), (b. 1)) ang (a. 1), (b 1) ang (a. 1), (b. 1),						, min in consume from table - transformation to work and same dependence of - 1 - Same dependence - providence - the dependence - 1 - same - 1			REVISIONS NO. DATE
9 - 19 - 9 - 9 - 9 - 9 - 9 - 9 - 9 - 9 -	. 197 - 2 - 1974 - 20 - 1974 - 20 - 1974 - 20 - 1974 - 2019 - 201		AIRVAC VALVE											310-	<u>DESIGNED BY: BCallag</u> <u>DRAWN BY: JHanna</u>
														320-	COPYRIGHT 2002 (C NORTH PACIFIC DESIG
NTERWOOD DIVISI	ON 2	CANTERW	OOD DRIVE				TRACT D ÇANTI	ERWOOD DIVISIO	N 6						Can
		<u> </u>					[<u> </u>		Canterwood S.T.E
19+00	20+00	21+	+00	22+00		240 ·00	240 24 24 00		25+00	26	+00	27	+00	<u>260</u> 28+00	
															>
41					220	250						- 1995 - Barding Market, 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997			in 12 roveme
					230	260	260 -280							280-	ision 12 Improvement Plans
	8' MIN-DI	PTH (18+50-TC	34+50									, an			S
					240	270	270 290							290	
					-250	280	280 300							300	
							د میرد با بایین می	CANTERWOOD DI	VISION 6		-				RUSH CONSTRUC COMPANY, (253) 858–30
						290						-			RUSH
5+00	6+00	7+	270 240 00	8+00	9+	00	10+00		11+00	12	++00	13 [.]	+00	240 14+00	EXPIRES 3/05/05
														230	BOLOWAL FRAME
ECTIONAL BORING			280 250			,	,,,,,,,, .							250	CALLA AN CALLA CAL
			290 260		1999 - To San				• • • • • • • • • • • • • • • • • • •			n ne augusti a star da e da		260	Suite 2A Gig Harbor WA 98335
ng			300 270											270	5715 Wollochet Drive NW
		- LINE BELOW 3	300 270												(253) 858–8204
	(IS APPROXIMATE, DEPTH O		310 280						1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ar - , , , , , , , , , , , , , , , , , ,	-	·		280	Engineering Planning
n na manana mana ana balan ana a tao a sa na ana ana ana ana ana ana ana ana			320 290											290	Architecture

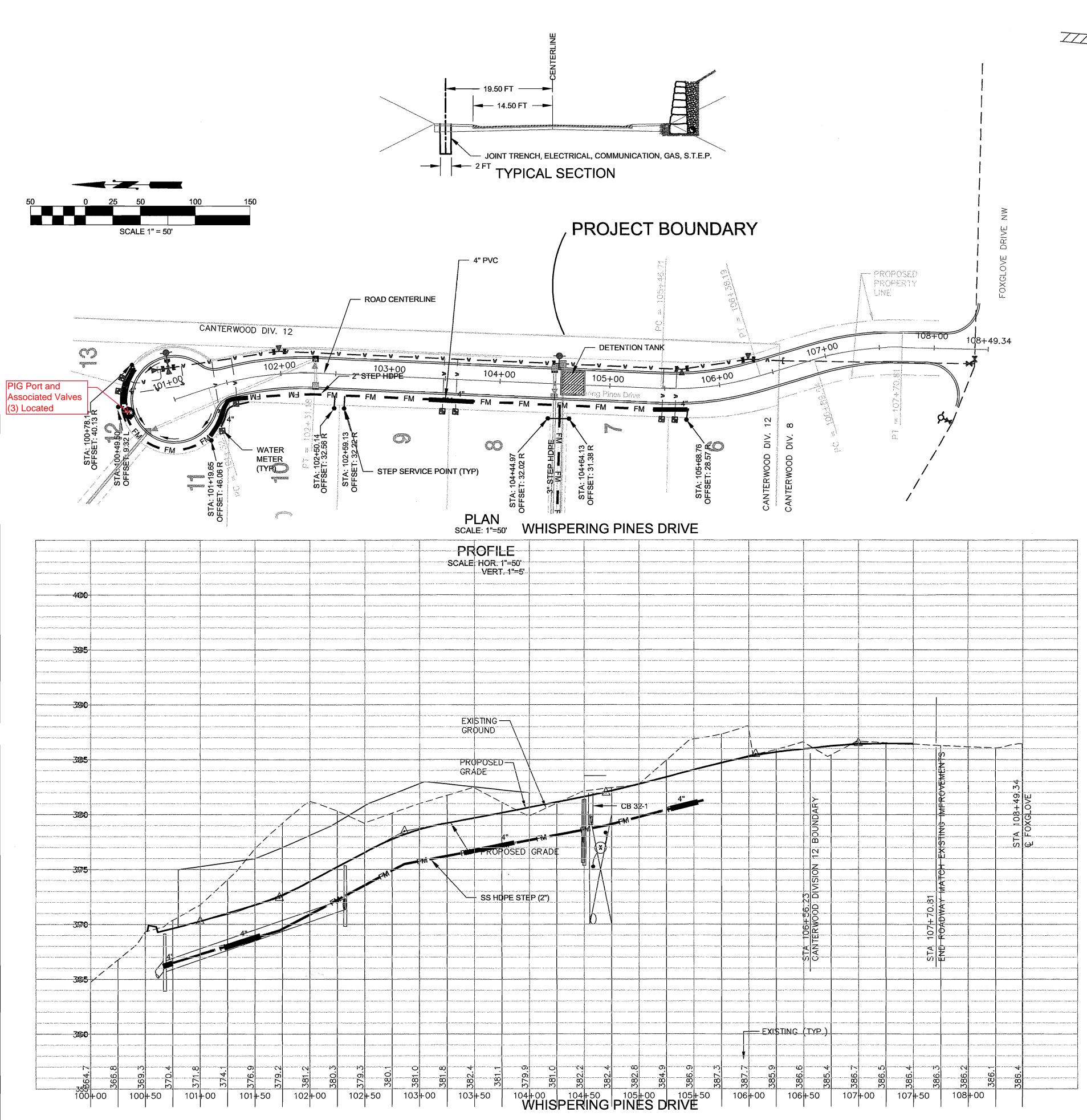


Service at 1-800-424-5555 at least 2 days before digging.

BY: JOHN P. VOD COMMUNITY

						320 310 300 290	ACARTACIES ISANA ANDRA A	
-00	54-	+00	55	+00	56	270 +00	EXPIRES 3/05/05	
PMENT COMPA		.75, IE 282.15	<u></u>	89.00, IE 281.00		300 290	RUSH CONSTRUCTION COMPANY, INC. (253) 858-3636	
	PER PLANS	S DOWL ENGIN	EERS	ING GRAVITY S VAY, JUL 31, 200	- m mil el se un angles a l'a fait à fait dus dans dans de la caracter anna de l'hertare de fait e	280	Division 12 P. Improvement Plans WA	
+00		+00 AS—BU	JILT	+00	ANNULS OF THE PARTY OF THE PART	250 +00	JOB NO: P:\Canterwood Div12	
	DRAV 0 TO	71+1	11				ALIGNMENT	
DOPICH A.			8Y:	AND ENGIN N MISIURAK GINEER		TE	C-9. of sheets	





				1 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -						
			1				2 2 2			
2B 32-1		BOUNDARY							ΓA 108	E FOXGLOVE
		56.23 00 DIVISION 12								
		STA 106+56.23 CANTERWOOD D			· · · · · · · · · · · · · · · · · · ·	STA 107+70.81				
	EXI	STING (TYP.)							
8 6 6 8 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	<u>5. 7.7 65</u> 5.7 7.7 65 5.7 7.7 85 85 106+00	9. 9. 89. 106+50	7.080. 280. 2386. 107	386.5 00+	+.98 <u>8</u> 107+	286.3 286.3	386.2 108	5 386.1	386.4	

