10-2023



PUBLIC UTILITY DISTRICT NO. 1 OF CLALLAM COUNTY CARLSBORG/VAN-LAN WATER SYSTEM BLENDING PHASE 1

OCTOBER 2023

CONTACT INFORMATION

PUBLIC UTILITY DISTRICT NO. 1 OF CLALLAM COUNTY (360) 452-9771

PRIVATE/ON-SITE SEPTIC SYSTEMS CLALLAM COUNTY PUBLIC WORKS (360) 417-2319

STORM / ROAD

CLALLAM COUNTY ROAD DEPARTMENT (360) 417-2319

PUBLIC UTILITY DISTRICT NO. 1 OF CLALLAM COUNTY (360) 452-9771

CABLE TV AND TELEPHONE

CENTURY LINK (206) 733-8860

FIRE DEPARTMENT

FIRE DISTRICT #3 (360) 683-4242

SEQUIM SCHOOL DISTRICT

(306) 582-3260

VICINITY MAP



COMMISSIONERS

KEN HAYS - DISTRICT #1 JOHN PURVIS - DISTRICT #2 JIM WADDEL - DISTRICT #3

PREPARED BY



BHC Consultants, LLC 1601 Fifth Avenue, Suite 500 eattle, Washington 98101

206.505.3406 (fax)

IN ASSOCIATION WITH:

NTIS SURVEYING PANGEO ENGINEERING EVERGREEN COATING ENGINEERS

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GENERAL NOTES

- CONTRACTOR SHALL LIMIT THE AMOUNT OF DISTURBED AREA TO THE MINIMAL AMOUNT NECESSARY TO FACILITATE CONSTRUCTION EFFORTS. ALL DISTURBED AREAS SHALL BE FULLY RESTORED WITHIN 15 WORKING DAYS AFTER FIRST OPENING THE TRENCH, UNLESS APPROVED OTHERWISE
- 2. CONTRACTOR SHALL VERIFY LOCATIONS OF EXISTING UNDERGROUND UTILITIES INCLUDING BUT NOT LIMITED TO WATER MAINS, WATER SERVICE LINES, METER BOXES, COMMUNICATIONS, STORM DRAINS, ELECTRICAL, AND GAS PRIOR TO CONSTRUCTION.
- 3. THE CONTRACTOR SHALL VERIFY THE ELEVATION OF THE EXISTING UTILITIES AT ALL CROSSINGS A MINIMUM OF 6 FEET EACH DIRECTION PRIOR TO CROSSING IN ORDER TO ESTABLISH NECESSARY VERTICAL AND HORIZONTAL ALIGNMENT. MAKE ADJUSTMENTS NECESSARY TO MEET THE REQUIRED CLEARANCE UNLESS NOTED OTHERWISE ON THE DRAWINGS. CONTRACTOR SHALL USE A MINIMUM NUMBER OF FITTINGS TO CHANGE ALIGNMENT. NEW WATER MAIN SHALL CROSS UNDER EXISTING UTILITIES UNLESS OTHERWISE NOTED ON DRAWINGS.
- 4 THE LOCATIONS OF POWER TELEPHONE AND TV CABLES SHOWN ON THESE PLANS ARE APPROXIMATE AND ARE BASED ON THE AVAILABLE CONSTRUCTION RECORD DRAWING AND SURVEYED INFORMATION. CONTRACTOR SHALL COORDINATE WITH UTILITY PURVEYORS AND VERIFY THE LOCATION OF THE EXISTING LITILITIES PRIOR TO CONSTRUCTION
- 5. THE CONTRACTOR SHALL PROTECT THE EXISTING WATER MAIN AND SERVICES DURING THE NEW WATER MAIN INSTALLATION, THE CONTRACTOR SHALL REPAIR ANY BREAKS OF THE EXISTING PVC WATER MAIN DURING THE NEW WATER MAIN INSTALLATION AND WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR IN ACCORDANCE WITH PUBLIC UTILITY DISTRICT NO. 1 OF CLALLAM COUNTY DIRECTION.
- 6. THE CONTRACTOR SHALL RESTORE OR REPLACE ALL EXISTING FENCES AND MAIL BOXES REMOVED/DAMAGED AS PART OF THE WATER MAIN INSTALLATION TO PRE-EXISTING OR BETTER CONDITION, AND IN THE SAME LOCATION.
- 7. THE CONTRACTOR SHALL RESTORE OR REPLACE ALL EXISTING LANDSCAPING DISTURBED AS PART OF WATER MAIN INSTALLATION TO PRE-EXISTING OR BETTER CONDITION.
- 8. NO STAGING OF EQUIPMENT OR STOCKPILING IN PUBLIC RIGHT-OF-WAY WITHOUT WRITTEN PERMISSION FROM PUBLIC UTILITY DISTRICT NO. 1 OF CLALLAM COUNTY, AND THE COUNTY
- 9. CONTRACTOR SHALL MAINTAIN STORM DRAINAGE FLOWS DURING THE CONSTRUCTION AND DURING THE REPLACEMENT OR RESTORATION OF ANY EXISTING STORM DRAINAGE FACILITIES.
- 10. SEE PART C SPECIFICATION SECTION C2.7 FOR "PROJECT TEMPORARY TRAFFIC CONTROL" AND PART F "AGENCY PERMITS" IN THE PROJECT SPECIFICATIONS FOR TRAFFIC CONTROL REQUIREMENTS
- 11. CONTRACTOR SHALL PROTECT EXISTING PAVEMENT NOT DESIGNATED FOR RESTORATION. PAVEMENT DAMAGED BY CONTRACTOR SHALL BE RESTORED TO CLALLAM COUNTY STANDARDS AND PAID FOR BY THE
- 12. THE NEW 8" WATER MAIN ALIGNMENT SHALL BE AS SHOWN ON THE DRAWINGS. THE ALIGNMENT MAY BE REVISED DURING CONSTRUCTION DUE TO FIELD CONDITIONS. HOWEVER, THE CONTRACTOR SHALL SUBMIT TO PUBLIC UTILITY DISTRICT NO. 1 OF CLALLAM COUNTY AND ENGINEER A REQUEST IN WRITING FOR AN ALIGNMENT CHANGE AND RECEIVE APPROVAL PRIOR TO REVISING THE ALIGNMENT.

UTILITY CONFLICT NOTES - CAUTION:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION DIMENSION AND DEPTH OF ALL EXISTING UTILITIES WHETHER SHOWN ON THIS PLAN OR NOT, BY POTHOLING THE UTILITIES AND SURVEYING THE HORIZONTAL AND VERTICAL LOCATION PRIOR TO CONSTRUCTION. THIS SHALL INCLUDE CALLING UTILITY LOCATE AT 811 AND THEN POTHOLING ALL OF THE EXISTING UTILITIES. IF CONFLICTS SHOULD OCCUR, THE CONTRACTOR SHALL CONSULT PUBLIC UTILITY DISTRICT NO. 1 OF CLALLAM COUNTY FOR DIRECTION PRIOR TO PROCEEDING WITH CONSTRUCTION.

> Call 48 Hours **Before You Dig**

1-800-424-5555



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BHC Consultants, LLC Seattle, Washington 98101 206.505.3400

Designed:	Z. Miles, P.E.	Scale: N/A		
Orawn:	P. Simon	One Inch at Full Scale		
Charlend.	L O'lleania D.F.	If Not One Inch		



PUBLIC UTILITY DISTRICT NO. 1 OF CLALLAM COUNTY Sequim WA 98382

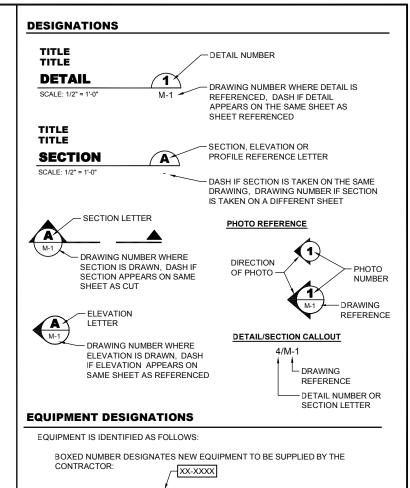
CARLSBORG/VAN-LAN WATER SYSTEM BLENDING PHASE 1

INDEX OF DRAWINGS AND GENERAL NOTES

File: P22-10806 Ph1_G-2

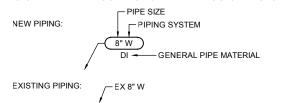
ARRREVIATIONS

ABBRE	VIATIONS		
AB	ANCHOR BOLT	KW	KILOWATT
AC	ASPHALT CONCRETE	IXVV	MEOWATT
ACP	ASPHALT CONCRETE PAVEMENT	L	LENGTH
ADA	AMERICANS WITH DISABILITIES ACT	ĹF	LINEAR FEET
ADS	POLYETHYLENE PIPE	LNK	LINK
AFF	ABOVE FINISH FLOOR	LT	LEFT
ALUM	ALUMINUM		CEI I
APPROX	APPROXIMATE	MAP	MAPLE
APWA	AMERICAN PUBLIC WORKS ASSOCIATION	MAX	MAXIMUM
AL WA	AMERICAN FUBEIC WORRS ASSOCIATION	MCC	MOTOR CONTROL CENTER
BF	BLIND FLANGE	MECH	MECHANICAL
BLDG	BUILDING	MH	MANHOLE
BMP	BELOW MEASURING POINT	MIN	MINIMUM
BMPS	BEST MANAGEMENT PRACTICES	MISC	MISCELLANEOUS
BTM	BOTTOM	MJ	MECHANICAL JOINT
DIW	BOTTOM	MTL	METAL
СВ	CATCH BASIN	MW	MONITORING WELL
CDF	CONTROLLED DENSITY FILL		
CED	CEDAR	N/A	NOT APPLICABLE
CHLK	CHAIN LINK	N	NORTH
CHN	CHAIN	NE	NORTHEAST
C/L, CL	CENTERLINE	NIC	NOT IN CONTRACT
CLR	CLEAR	NO.	NUMBER
CMP	CORRUGATED METAL PIPE	NPT	NATIONAL PIPE THREAD
CMU	CONCRETE MASONRY UNIT	NTS	NOT TO SCALE
CTR	CENTER	NW	NORTHWEST
CO	CLEANOUT	••••	
COL	COLUMN	OC	ON CENTER
COMP	COMPOSITE, COMPARTMENT	OD	OUTSIDE DIAMETER
CONC	CONCRETE	OH	OVERHEAD
CONT	CONTINUOUS	OPG	OPENING
COT	COTTONWOOD		o. =o
CPP	CORRUGATED POLYETHYLENE PIPE	Р	POWER
CPLG	COUPLING	P&ID	PIPING AND INSTRUMENTATION DIAGRAM
CRZ	CRITICAL ROOT ZONES	PE	PLAIN END
CSBC	CRUSHED SURFACING BASE COURSE	PL	PLATE
CSTC	CRUSHED SURFACING TOP COURSE	PLCS	PLACES
CULV	CULVERT	PVC	POLYVINYL CHLORIDE
COLV	OCEVERT	PVMT	PAVEMENT
D	DRAIN	PWR	POWER
DBH	DIAMETER AT BREAST HEIGHT		
DEMO	DEMOLITION	REINF	REINFORCE, REINFORCEMENT
DI	DUCTILE IRON	REQ'D	REQUIRED
DIA	DIAMETER	RET	RETAINING
DISP	DISPLACEMENT	RFCA	RESTRAINED FLANGED COUPLING ADAPTER
DR	DRIVE, DRAIN	RJ	RESTRAINED JOINT
DS	DOWNSPOUT	RM	ROOM
DWG	DRAWING	R.O.W.	RIGHT OF WAY
DWG	DIAWING	RR	RESTROOM
E	EAST, ELECTRICAL	RT	RIGHT
ĒA	EACH		
EFF	EFFLUENT	S	SANITARY SEWER, SOUTH, SLOPE
EL	ELEVATION	SCH	SCHEDULE
ELECT	ELECTRIC	SD	STORM DRAIN
EP	EDGE OF PAVEMENT	SDMH	STORM DRAIN MANHOLE
EQ	EQUAL	SDR	STANDARD DIMENSION RATIO
EQMT	EQUIPMENT	SE	SOUTHEAST
EW	EACH WAY	SF	SILT FENCE
EX	EXISTING	SIM	SIMILAR
EXP	EXPANSION	SQ	SQUARE
		SMH	SANITARY SEWER MANHOLE
FD	FLOOR DRAIN	SST	STAINLESS STEEL
FF	FINISHED FLOOR	ST	STREET
FG	FINISH GRADE	STA	STATION
FL	FLANGE	STD	STANDARD
FM	FORCE MAIN	STL	STEEL
FNC	FENCE	STRUCT	STRUCTURAL
FRP	FIBER-REINFORCED PLASTIC	SW	SOUTHWEST
		SYS	SYSTEM
G	GAS		
GA	GAGE	Т	TELEPHONE
GAL	GALLON	T&B	TOP AND BOTTOM
GALV	GALVANIZED	TOC	TOP OF CURB
GLZ	GLAZE	TP	TEST PIT
GWB	GYPSUM WALL BOARD	TW	TOP OF WALL
-		TYP	TYPICAL
Н	HEIGHT, HIGH		
HB	HOSE BIB	U/C	UNDER CONSTRUCTION
HDPE	HIGH DENSITY POLYETHYLENE	UNO	UNLESS OTHERWISE NOTED
HM	HAZARDOUS MATERIAL		
HMA	HOT MIX ASPHALT	VAC	VACUUM
HORIZ	HORIZONTAL	VERT	VERTICAL
HP	HIGH POINT	•	
HT	HEIGHT	W/	WITH
HYD	HYDRANT	W	WATER, WEST, WIDTH
	=:##!	WSDOT	WASHINGTON STATE DEPARTMENT
IE	INVERT ELEVATION	550.	OF TRANSPORTATION
INSUL	INSULATION	WS	WATER SERVICE
INT	INTERIOR	****	EN OLIVIOL
IPS	IRON PIPE SIZE	YD	YARD DRAIN
•			
JB	JUNCTION BOX		



PIPING DESIGNATIONS

PIPING IS IDENTIFIED BY ITS SIZE FOLLOWED BY PIPING SYSTEM AS FOLLOWS:



UNBOXED NUMBER DESIGNATES EXISTING EQUIPMENT:

EQUIPMENT AND DEVICES TO BE PROVIDED UNDER THIS CONTRACT.

_XX-XXXX

EQUIPMENT LIST IS INCLUDED FOR THE CONVENIENCE OF THE ENGINEER AND CONTRACTOR, AND IS NOT INTENDED TO REPRESENT PRECISE LISTING OF ALL

FOR NEW PIPING MATERIAL, FITTINGS, AND VALVES, SEE SPECIFICATIONS.

PIPING SYSTEM DESIGNATIONS FOR EXISTING PIPING INDICATE TYPE OF SERVICE AND TYPE OF MATERIAL IF KNOWN.
CONTRACTOR SHALL VERIFY ALL EXISTING PIPE MATERIAL AND NOT RELY ON THIS DESIGNATION PRIOR TO CONSTRUCTION.

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DRAWING REFERENCES

- G GENERAL
- EC EROSION CONTROL
- C CIVIL

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CONSULTANTS www.bhcconsultants.com

BHC Consultants, LLC Seattle, Washington 98101 206.505.3400 206.505.3406 (fax)

Designed: Z. Miles, P.E. Drawn: P. Simon

N/A One Inch at Full Sca If Not One Inch Scale According Checked: J. Gillespie, P.E.



PUBLIC UTILITY DISTRICT NO. 1 OF CLALLAM COUNTY

Sequim WA 98382 (360) 452-9771 FAX (360) 681-5474

CARLSBORG/VAN-LAN WATER SYSTEM BLENDING PHASE 1

LEGEND, ABBREVIATIONS, **AND DESIGNATIONS**

Sheet: 3 of 21 File: P22-10806 Ph1_G-3 Date: October 2023

10-2023 ZJM JFG

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SURVEY NOTES:

- THIS TOPOGRAPHIC SURVEY IS BASED UPON THE WASHINGTON COORDINATE SYSTEM GRID, NORTH ZONE, NORTH AMERICAN DATUM OF 1983, 1991 ADJUSTMENT (NAD83/91), SAID DATUM WAS DERIVED FROM GNSS TIES TO CLALLAM COUNTY GEODETIC FRAMEWORK MONUMENTS 04301041, 04301071, 04301172. 04301461, 04301570, 04302361, CARLSBORG AND JOS 2. SEE RECORD OF SURVEY FIELD IN VOLUME 31 OF SURVEYS AT PAGE 89, AUDITOR'S FILE NUMBER 0715121, THIS IS NOT A BOUNDARY SURVEY AND SHOULD NOT BE CONSTRUED AS SUCH.
- 2. THE VERTICAL DATUM IS THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) ALSO FROM STATED GNSS TIES.
- THIS SURVEY TIED STATED MONUMENTS WITH 5 MINUTES OBSERVATION SESSIONS USING A CARLSON BRX6+ GNSS UNIT AND A CARLSON RT4 DATA COLLECTOR TABLET. A LOCALIZATION WAS COMPLETED USING THESE TIES WITH ALL MONUMENTS HAVING LESS THEN 0.05 HORIZONTAL AND 0.06 VERTICAL RESIDUALS.
- 4. TOPOGRAPHIC SURVEY DATA SHOWN HEREON WAS ALSO GATHERED WITH THE CARLSON GNSS AND DATA COLLECTOR.
- UNDERGROUND UTILITIES, AS SHOWN HEREON, ARE APPROXIMATE AND ARE BASED ON FIELD MEASUREMENTS OF MARKINGS PLACED UPON THE GROUND BY REPRESENTATIVES OF VARIOUS UTILITY COMPANIES AND THE PRIVATE LOCATE COMPANY A.P.S. THIS SURVEY DOES NOT GUARANTEE THAT THESE MARKINGS ACCURATELY DEPICT THE LOCATION OF THE UNDERGROUND UTILITIES OR THAT ALL UTILITIES THAT MAY EXIST WERE DELINEATED IN THE FIELD BY SAID REPRESENTATIVES. CALL 1-800-424-5555 BEFORE YOU DIG.
- THE PURPOSE OF THE TOPOGRAPHIC ELEMENTS SHOWN ON THIS MAP IS TO AID IN THE CIVIL ENGINEERING OF A WATERLINE AND MIXING STATION FOR PUD NO.1. THE CONTOURS SHOWN ON THIS MAP WERE DERIVED FROM DIRECT FIELD OBSERVATIONS. THE ACCURACY OF THE CONTOURS SHOWN HEREON ARE ONE HALF OF THE CONTOUR INTERVAL. THIS IS NOT A BOUNDARY SURVEY AND SHOULD NOT BE CONSTRUED AS SUCH.
- 7. THE RIGHTS OF WAY SHOWN HEREON ARE BASED UPON RECORDED PLATS AND SURVEY WITH ASSISTANCE FROM ASSESSORS MAP AS DIRECTED BY THE COUNTY RIGHT-OF-WAY AGENT. PINS FOUND BY THIS SURVEY ARE SHOWN IN RELATION TO CALCULATED CORNERS. IF THE FINAL CIVIL ENGINEERING DESIGN DISCLOSES THE POSSIBLE DISTURBANCE OR REMOVAL OF ANY MONUMENTS WITHIN THE PROJECT AREA, AN INVENTORY OF THE MONUMENTS SHOULD BE PERFORMED AND PERMITS FILED WITH THE WASHINGTON STATE DEPARTMENT OF NATURAL RESOURCES PURSUANT TO CHAPTER 332-120 WAC.

HORIZONTAL DATUM:

WASHINGTON STATE COORDINATE SYSTEM, NAD83/91

VERTICAL DATUM:

NAVD 88

SURVEY CONTROL POINTS								
PT#	SURVEY PT#	DESCRIPTION	NORTHING	EASTING	ELEVATION			
1>	408	FND RB ILLEGIBLE CAP	412045.97	1069187.32	126.49			
2>	409	FND RB ILLEGIBLE CAP	411859.33	1069181.51	129.13			
3>	410	FND RB ILLEGIBLE CAP	412066.96	1068918.96	128.92			
4	1847	FND THORTON RBC	411348.96	1068925.43	133.40			
5	1852	FND THORTON RBC	411187.32	1068921.11	136.28			
6	1853	FND RB NO CAP	411177.00	1068921.33	137.08			
7	1854	FND RBC LS12750	410968.51	1068913.48	137.78			
8	1861	FND RBC DISTURBED ILLEGIBLE CAP	410848.78	1068909.36	137.19			
9	1862	FND RB NO CAP DISTURBED	410684.24	1068903.32	138.29			
10>	1866	FND O.P. RBC	410519.24	1068899.81	141.27			
11>	1867	FND RBC D.C. AND L.	410489.25	1068898.81	141.40			
12>	1893	FND RB NO CAP	410077.03	1068885.04	146.90			
13	1895	FND O.P. RBC	409624.80	1068870.88	148.34			
14>	1902	FND O.P. RBC	409217.28	1068857.77	152.53			
15	1909	FND 231 O.P. RBC	409187.37	1068856.93	153.04			
16	1957	FND RB NO CAP	408846.60	1068845.87	158.53			
17>	1984	FND RBC WINTERS	408342.42	1068829.53	161.98			
18	1985	FND RBC WINTERS	408284.72	1068827.57	162.65			
19	2015	FND RBC PLS 12750	408743.24	1068782.74	158.14			
20>	2028	FND RBC 12750	408973.49	1068790.25	156.94			
21>	2045	FND RBC PLS 22329	409522.21	1068797.56	150.80			
22	2059	FND RBC PLS 22329	409672.05	1068807.51	147.12			
23	2102	FND RBC UNDER FENCE ILLEGIBLE CAP	410383.02	1068830.51	142.48			
24	2106	FND RBC CUMMINS	410521.15	1068834.84	140.54			
25	2126	FND RBC CUMMINS	410833.89	1068849.76	136.83			
26	2135	FND 215 RBC CUMMINS	411178.44	1068860.69	136.58			
27	2153	FND RB ILLEGIBLE CAP	411505.07	1068871.09	132.95			

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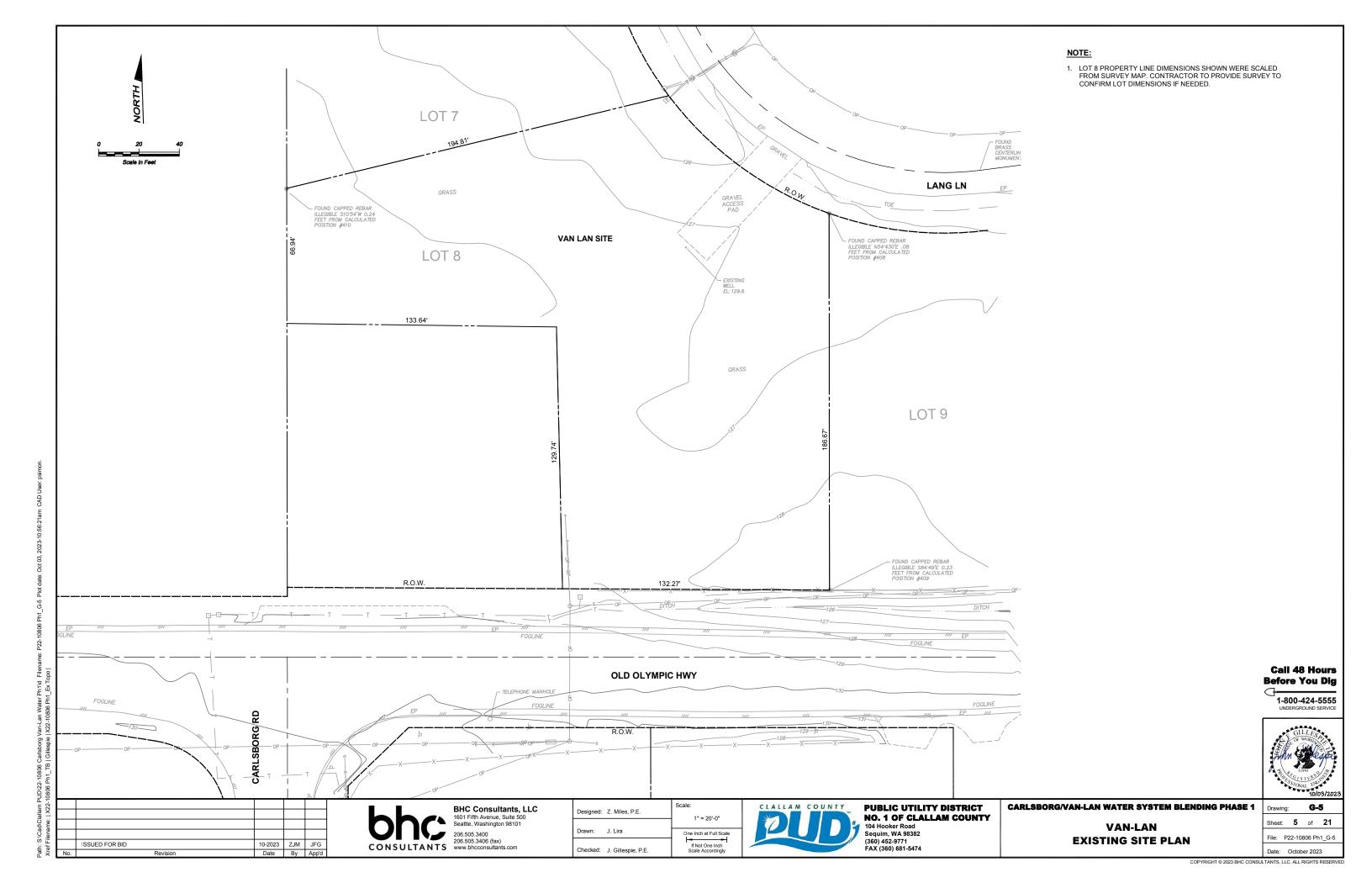
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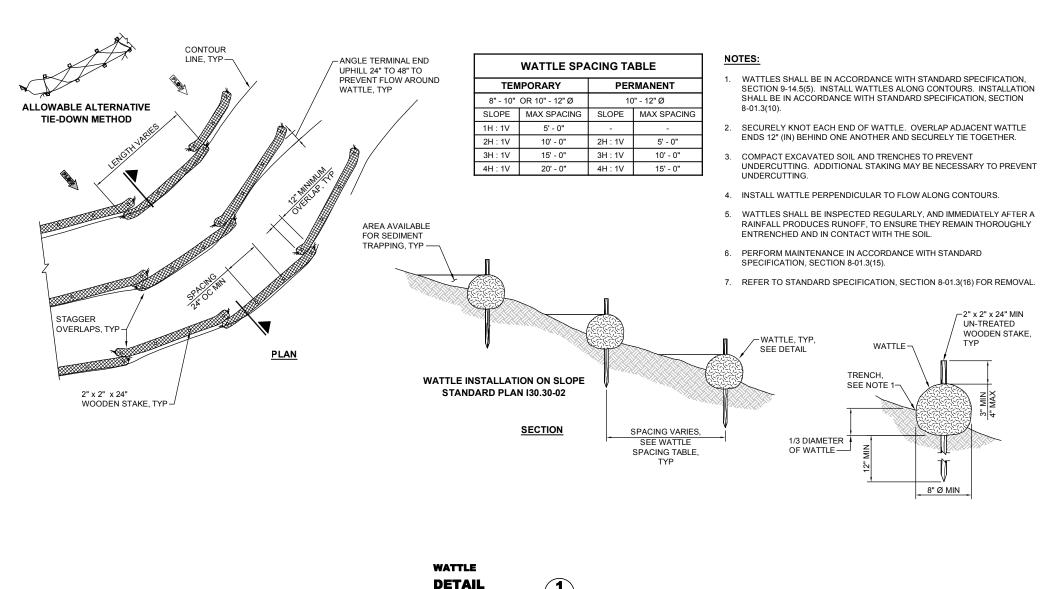
CARLSBORG/VAN-LAN WATER SYSTEM BLENDING PHASE 1 PUBLIC UTILITY DISTRICT NO. 1 OF CLALLAM COUNTY

KEY MAP AND SURVEY CONTROL

G-4 Sheet: 4 of 21 File: P22-10806 Ph1_G-4 Date: October 2023







NOT TO SCALE 100' min Install driveway culvert if there is a oadside ditch present 4" - 8" quarry 1. Driveway shall meet 12" minimum thickness the requirements of the permitting agency. Provide full width 2. It is recommended that of ingress/egress the entrance be crowned so that runoff drains off the pad. Figure II-4.1.1 Stabilized Construction Entrance Revised June 2015



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> **DETAIL (2**)

TEMPORARY EROSION AND SEDIMENT CONTROL NOTES:

- THE IMPLEMENTATION OF THESE TESC PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE TESC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL ALL CONSTRUCTION IS APPROVED.
- THE BOUNDARIES OF THE CLEARING LIMITS SHOWN ON THESE PLANS SHALL BE CLEARLY FLAGGED BY A CONTINUOUS LENGTH OF SURVEY TAPE (OR FENCING, IF REQUIRED) PRIOR TO CONSTRUCTION. DURING THE CONSTRUCTION PERIOD, NO DISTURBANCE BEYOND THE CLEARING LIMITS SHALL BE PERMITTED. THE CLEARING LIMITS SHALL BE MAINTAINED BY THE CONTRACTOR FOR THE DURATION OF CONSTRUCTION.
- THE TESC FACILITIES SHOWN ON THESE PLANS MUST BE CONSTRUCTED PRIOR TO ALL CLEARING AND GRADING TO ENSURE THAT THE TRANSPORT OF SEDIMENT TO SURFACE WATERS, DRAINAGE SYSTEMS, AND ADJACENT PROPERTIES IS REDUCED TO REQUIRED LEVELS
- THE TESC FACILITIES SHOWN ON THESE PLANS ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE TESC FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND MODIFIED TO ACCOUNT FOR CHANGING SITE CONDITIONS (E.G., ADDITIONAL COVER MEASURES, ADDITIONAL SUMP PUMPS,

- RELOCATION OF DITCHES AND SILT FENCES, ADDITIONAL PERIMETER PROTECTION, ETC.), AS DIRECTED BY THE CITY ENGINEER.
- 5. THE TESC FACILITIES SHALL BE INSPECTED DAILY BY THE APPLICANT/CESCL AND MAINTAINED TO ENSURE CONTINUED PROPER FUNCTIONING. WRITTEN RECORDS SHALL BE KEPT OF WEEKLY REVIEWS OF THE TESC FACILITIES AND OF SAMPLES TAKEN DURING THE WET SEASON (OCTOBER 1 TO APRIL 30) AND OF MONTHLY REVIEWS DURING THE DRY SEASON (MAY 1 TO
- 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 TESC METHODS (E.G., SEEDING, MULCHING, PLASTIC COVERING,
- 7. ANY AREA NEEDING TESC MEASURES NOT REQUIRING IMMEDIATE ATTENTION SHALL BE ADDRESSED WITHIN SEVEN (7) DAYS.
- 8. THE TESC FACILITIES ON INACTIVE SITES SHALL BE INSPECTED AND MAINTAINED A MINIMUM OF ONCE A MONTH OR WITHIN TWENTY-FOUR (24) HOURS FOLLOWING A STORM EVENT.

206.505.3406 (fax)

- 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 ULTIMATELY AS AN INFILTRATION SYSTEM, THE TEMPORARY FACILITY MUST BE GRADED SO THAT THE BOTTOM AND SIDES ARE AT LEAST THREE (3) FEET ABOVE THE FINAL GRADE OF THE PERMANENT FACILITY.
- 10. WHERE STRAW MULCH FOR TEMPORARY EROSION CONTROL IS REQUIRED, IT SHALL BE APPLIED AT A MINIMUM THICKNESS OF 2 TO
- 11. PRIOR TO THE BEGINNING OF THE WET SEASON (OCTOBER 1), ALL DISTURBED AREAS SHALL BE REVIEWED TO IDENTIFY WHICH AREAS 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 CLALLAM PUD ENGINEER. THE INSPECTOR CAN REQUIRE SEEDING OF ADDITIONAL AREAS IN ORDER TO PROTECT SURFACE WATERS, ADJACENT PROPERTIES, OR DRAINAGE **FACILITIES**



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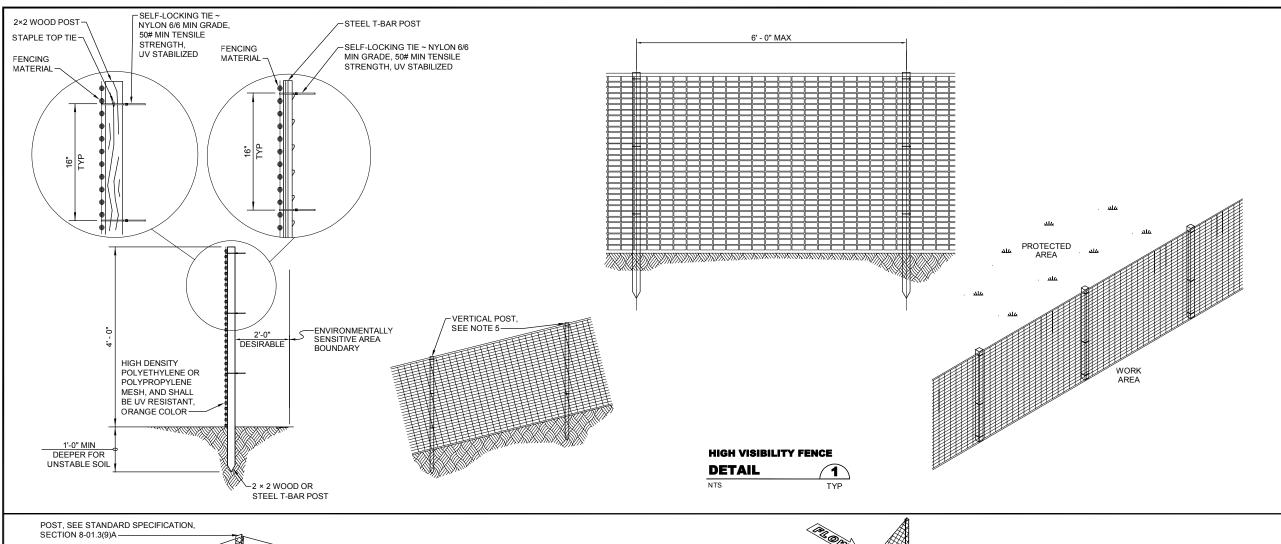
BHC Consultants, LLC Seattle, Washington 98101 206.505.3400

Designed: C. Talich, P.E. NTS Drawn: J. Lira One Inch at Full Sca If Not One Inch Scale According Checked: J. Gillespie, P.E.



CARLSBORG/VAN-LAN WATER SYSTEM BLENDING PHASE 1

EROSION AND SEDIMENT CONTROL NOTES AND DETAILS



- PERFORM MAINTENANCE IN ACCORDANCE WITH STANDARD SPECIFICATION, SECTIONS 8-01.3(9)A AND 8-01.3(15).
- 2. SPLICES SHALL NEVER BE PLACED IN LOW SPOTS OR SUMP LOCATIONS. IF SPLICES ARE LOCATED IN LOW OR SUMP AREAS, THE FENCE MAY NEED TO BE REINSTALLED UNLESS THE PROJECT ENGINEER APPROVES THE INSTALLATION.
- POST SHALL HAVE SUFFICIENT STRENGTH AND DURABILITY TO SUPPORT THE FENCE THROUGH THE LIFE OF THE PROJECT.

- DURING EXCAVATION, MINIMIZE DISTURBING THE GROUND AROUND TRENCH AS MUCH AS IS FEASIBLE, AND SMOOTH SURFACE FOLLOWING EXCAVATION TO AVOID CONCENTRATING FLOWS. COMPACTION MUST BE ADEQUATE TO PREVENT UNDERCUTTING FLOWS.
- 2. ANGLE TERMINAL END UPHILL 24" (IN) TO 48" (IN) TO PREVENT FLOW AROUND FENCE TYPICAL.
- PERFORM MAINTENANCE IN ACCORDANCE WITH STANDARD SPECIFICATION, SECTIONS 8-01.3(9)A AND
- 4. SPLICES SHALL NEVER BE PLACED IN LOW SPOTS OR SUMP LOCATIONS. IF SPLICES ARE LOCATED IN LOW OR SUMP AREAS, THE FENCE MAY NEED TO BE REINSTALLED UNLESS THE PROJECT ENGINEER APPROVES THE INSTALLATION.
- 5. INSTALL SILT FENCING PARALLEL TO MAPPED CONTOUR LINES.
- POST SHALL HAVE SUFFICIENT STRENGTH AND DURABILITY TO SUPPORT THE FENCE THROUGH THE LIFE OF THE PROJECT.





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SELF-LOCKING TIE~NYLON

6/6 MIN GRADE, 120# MIN

TENSILE STRENGTH,

UV STABILIZED

SEE NOTE

10-2023 ZJM JFG

-FASTEN GEOTEXTILE TO POST EVERY 6" (IN) OC

GEOTEXTILE -

BURY GEOTEXTILE IN TRENCH

BACKFILLED & COMPACTED

NATIVE SOIL-

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esigned: C. Talich, P.E. Drawn: J. Lira Checked: J. Gillespie, P.E.

TYPICAL HIGH VISIBILITY SILT FENCE WITHOUT BACKUP SUPPORT

ISOMETRIC

STEEL POSTS SHOWN



HIGH VISIBILITY SILT FENCE

DETAIL

NTS

One Inch at Full Sca

If Not One Inch Scale According

GEOTEXTILE FOR HIGH VISIBILITY SILT FENCE

POST WOOD OR STEEL, TYP-

TYPICAL INSTALLATION DETAIL STEEL POSTS SHOWN

(2)

COLOR - ORANGE, SEE STANDARD SPECIFICATION SECTION 9-33.2 (1), TABLE 6

PUBLIC UTILITY DISTRICT NO. 1 OF CLALLAM COUNTY

SPLICE DETAIL

WOOD POSTS SHOWN

FASTEN GEOTEXTILE TO POST EVERY 6" (IN) OC-

SEE NOTE 1

Sequim WA 98382 (360) 452-9771 FAX (360) 681-5474 **EROSION AND SEDIMENT CONTROL DETAILS**

SPLICED FENCE SECTIONS

SHALL BE CLOSE ENOUGH TOGETHER

TO PREVENT SILT LADEN WATER FROM ESCAPING

FENCE AT THE OVERLAP.

JOINING SECTIONS SHALL NOT BE PLACED
IN LOW SPOTS OR IN SUMP

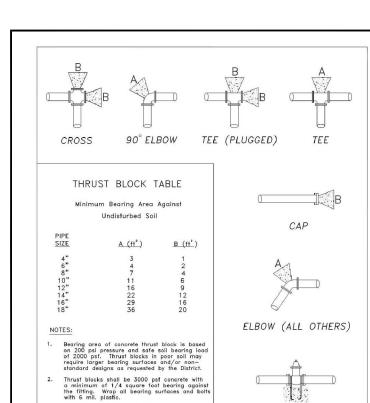
THROUGH THE

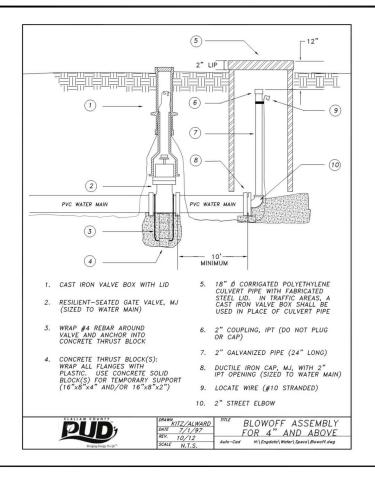
LOCATIONS.

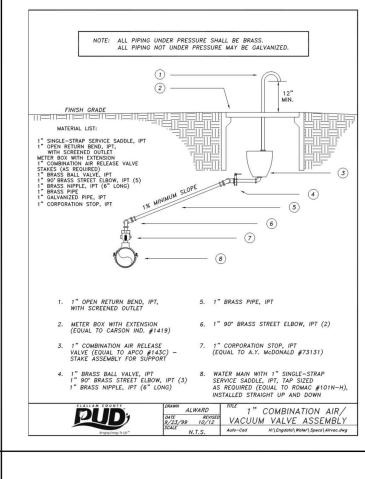
-FABRIC GEOTEXTILE,

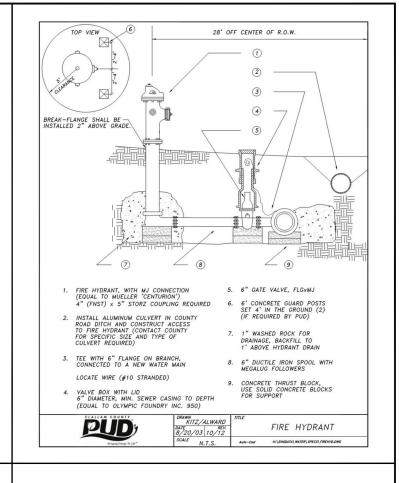
CARLSBORG/VAN-LAN WATER SYSTEM BLENDING PHASE 1 EC-2 heet: **7** of **21**

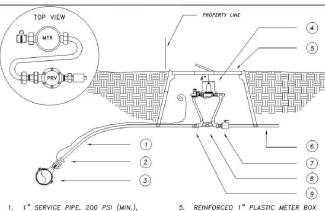
> File: P22-10806 Ph1_EC-2 Date: October 2023











DATE

DATE 12/18/92 SCALE

N.T.S.

1" SERVICE PIPE, 200 PSI (MIN.), COLD FLARE TYPE (EQUAL TO DRISCO PIPE 5100 CTS), WITH LOCATE WIRE (#10 STRANDED)

PUD

- 1" CORP STOP MIPT (EQUAL TO TO A.Y. McDONALD #73131), POSITION OPERATING LEVER ON THE SIDE; 1" ADAPTER, PACK-JOINTXFIPT, (A.Y. McDONALD #74754-22)
- WATER MAIN WITH 1" SINGLE-STRAP SERVICE SADDLE, IPT, TAP SIZED AS REOUIRED (EQUAL TO ROMAC #101N-H), INSTALLED AT 45° ANGLE
- 4. TANDEM COPPER SETTER (FOUAL TO A.Y. McDONALD #7502120AMM33); 5/8" x 3/4" M25 BADGER METER WITH ITRON 100W ERT, IN CUBIC FEET; AND 3/4" PRESSURE REDUCING VALVE, WATTS I F25AUR-73 WITH UNION FND
- 5. REINFORCED 1" PLASTIC METER BOX WITH READER STYLE LID (EQUAL TO CARSON INDUSTRIES #1220-12) AND EXTENSION (EQUAL TO CARSON INDUSTRIES #1220-6X)

GATE VALVE

Auto-Cad H:\Engdata\Water\Specs\Blocking.dwg

THRUST BLOCKING

9. 1" ADAPTER, PACK-JOINTXMIPT. (A.Y. McDONALD #74753-22)
1" x 3/4" BELL REDUCER, IPT

NOTES: PRESSURE REDUCING VALVE REQUIRED, UNLESS OTHERWISE DIRECTED BY DISTRICT. $2^{\prime\prime}$ PVC CONDUIT REQUIRED ON ALL ROAD CROSSINGS FROM CORPORATION STOP TO WITHIN 2 FEET OF WATER METER.

PUD

ISSUED FOR BID

ALWARD THE TOTAL THE TOTAL TO T

6. 3/4" x 12" BRASS NIPPLE, MIPT 3/4" BRASS BALL VALVE, IPT (EQUAL TO WATTS LF600 SERIES) STAKE THROUGH CENTER HOLE OF SETTER FOR STABILITY

10-2023 ZJM JFG

206.505.3406 (fax)

BHC Consultants, LLC Seattle, Washington 98101 206.505.3400

Designed: Z. Miles, P.E. Drawn: J. Lira

Checked: J. Gillespie, P.E.

NTS One Inch at Full Scale If Not One Inch



PUBLIC UTILITY DISTRICT NO. 1 OF CLALLAM COUNTY Sequim WA 98382

CARLSBORG/VAN-LAN WATER SYSTEM BLENDING PHASE 1

PUD NO. 1 OF CLALLAM COUNTY STANDARD DETAILS

C-1 Sheet: 8 of 21 File: P22-10806 Ph1_C-1

Call 48 Hours

Before You Dig

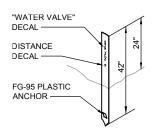
1-800-424-5555

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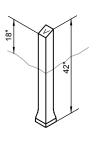
- LENGTH AS REQUIRED TO PUT OPERATING NUT, TWO (2) FEET FROM
- EXTENSIONS ARE REQUIRED WHEN THE VALVE NUT IS MORE THAN FOUR (4) FEET BELOW FINISHED GRADE EXTENSIONS ARE TO BE A MINIMUM OF TWO (2) FEET LONG ONE EXTENSION IS TO BE USED PER VALVE.
- 3. TIGHTEN SET SCREW ON VALVE NUT BEFORE INSTALLING VALVE BOX.
- 4. ALL EXTENSIONS ARE TO BE MADE OF STEEL, SIZED AS NOTED, AND PAINTED WITH TWO (2) COATS OF ENAMEL PAINT

VALVE OPERATING NUT EXTENSION

DETAIL 1 TYP



PREFERRED FLEXI-GUIDE, FG, MARKER POST BY HANSON SUPPLY CO



ALTERNATE VALVE MARKER POST

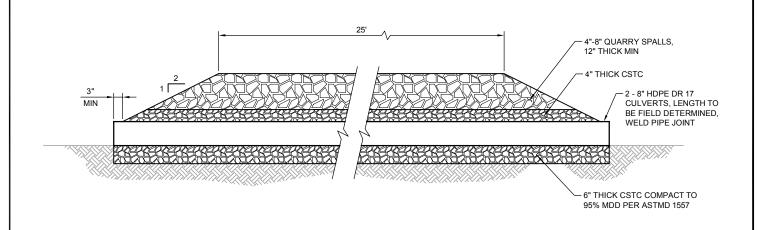
4" x 4" CONCRETE STYLE

NOTES:

- 1. PAINT POST WITH SAFETY BLUE ENAMEL #257, AS MANUFACTURED BY FARWEST PAINT MFG CO OR TAHOE BLUE MARATHON #1065, AS MANUFACTURED BY PARKER PAINT CO.
- 2. NEATLY STENCIL DISTANCE TO VALVE ON POST W/2" NUMERALS USING DECALS OR WHITE ENAMEL PAINT.

VALVE MARKER POST AND EXTRUDED CURBING

DETAIL 2



DRIVEWAY CULVERT

DETAIL

(3)

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Designed: Z. Miles, P.E. Drawn: J. Lira Checked: J. Gillespie, P.E.

CLALLAM COUNTY NTS One Inch at Full Scale

If Not One Inch
Scale Accordingly

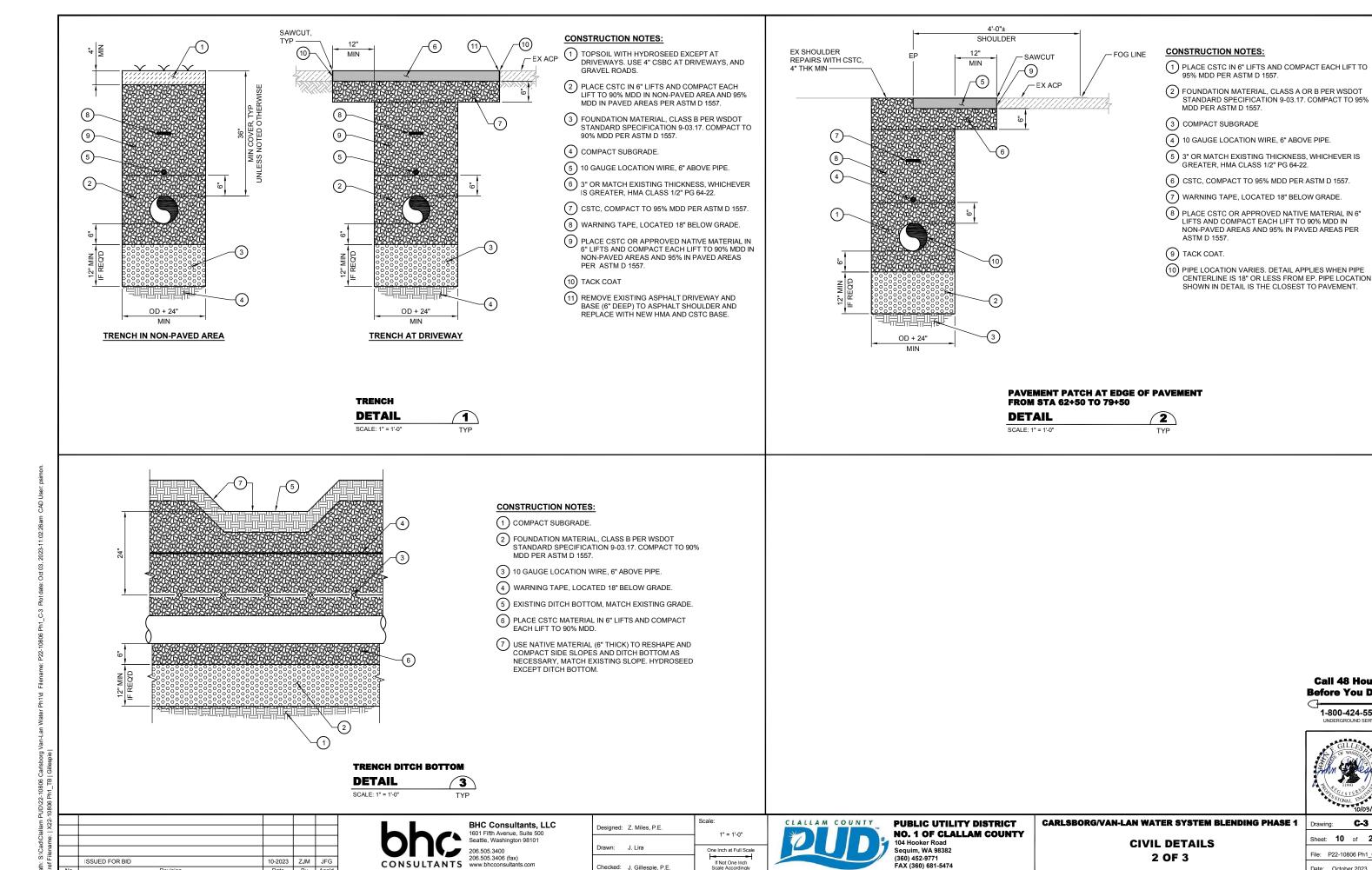
PUBLIC UTILITY DISTRICT NO. 1 OF CLALLAM COUNTY Sequim. WA 98382

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CARLSBORG/VAN-LAN WATER SYSTEM BLENDING PHASE 1

CIVIL DETAILS 1 OF 3

C-2 Sheet: **9** of **21** File: P22-10806 Ph1_C-2 Date: October 2023



Checked: J. Gillespie, P.E.

FAX (360) 681-5474

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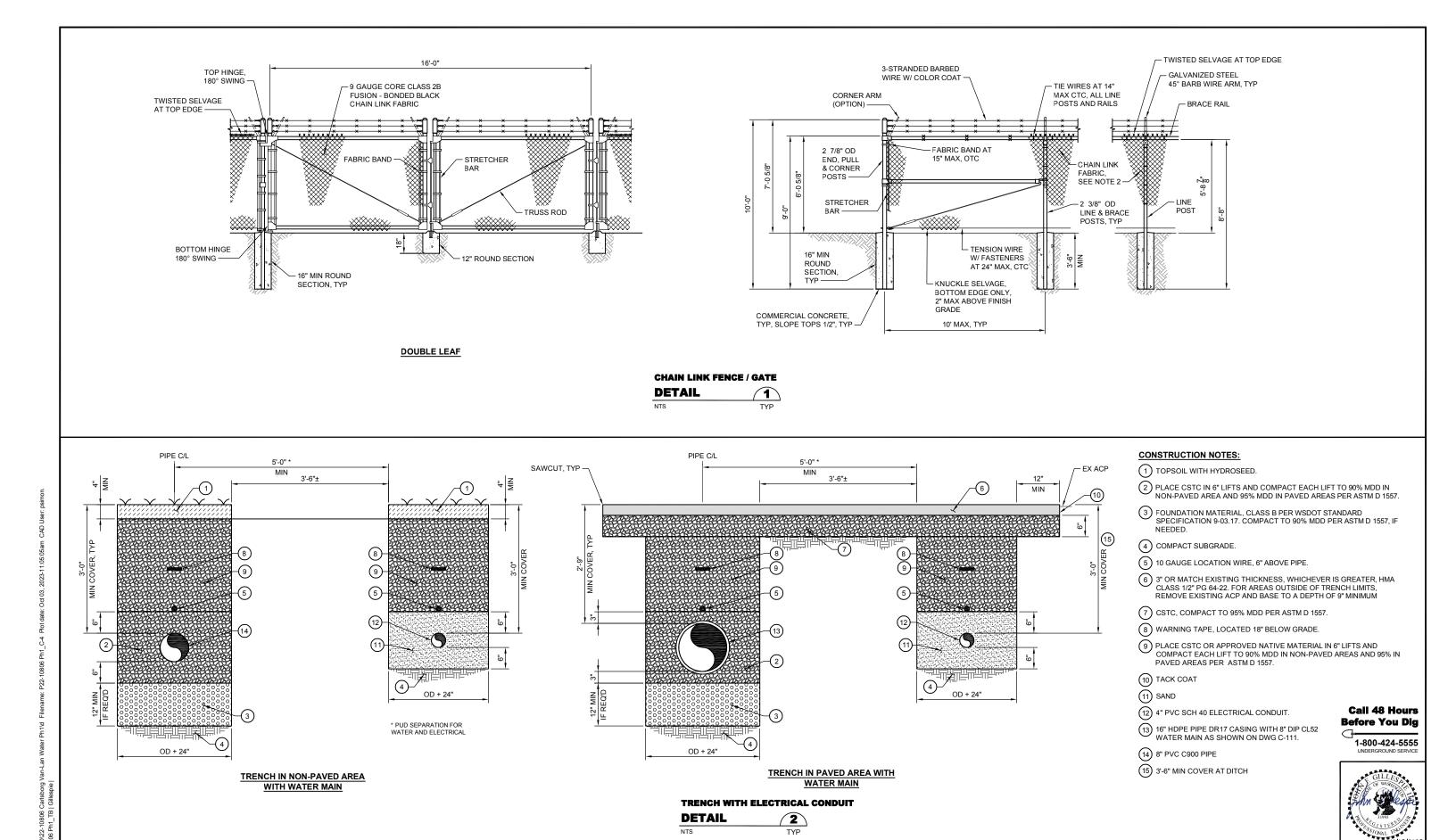
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C-3

Sheet: 10 of 21

File: P22-10806 Ph1_C-3

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Designed: Z. Miles, P.E.

Checked: J. Gillespie, P.E.

Drawn: P. Simon

NTS

One Inch at Full Sca

If Not One Inch Scale According CLALLAM COUNTY

PUBLIC UTILITY DISTRICT

Sequim. WA 98382

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NO. 1 OF CLALLAM COUNTY

CIVIL DETAILS

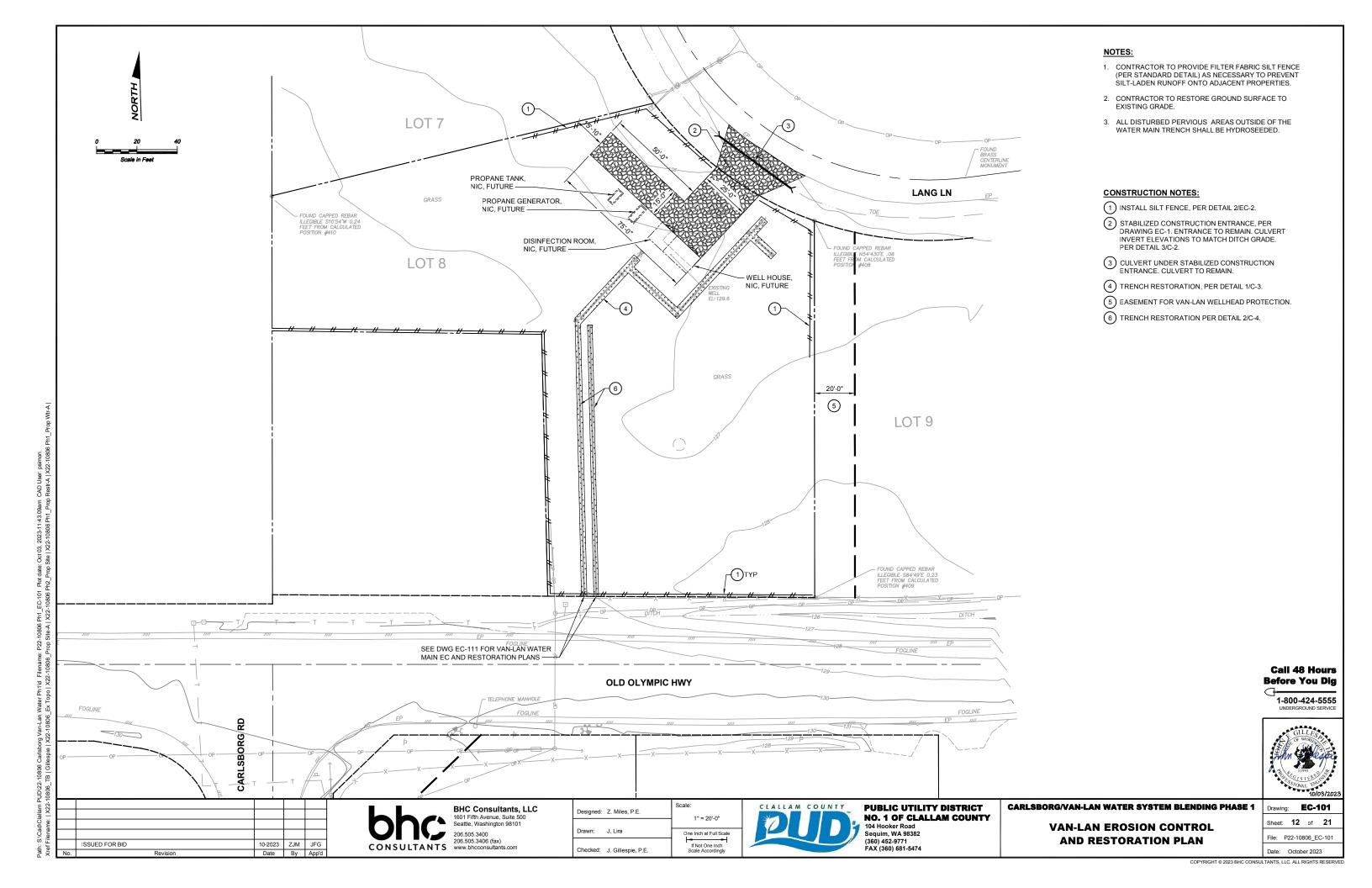
3 OF 3

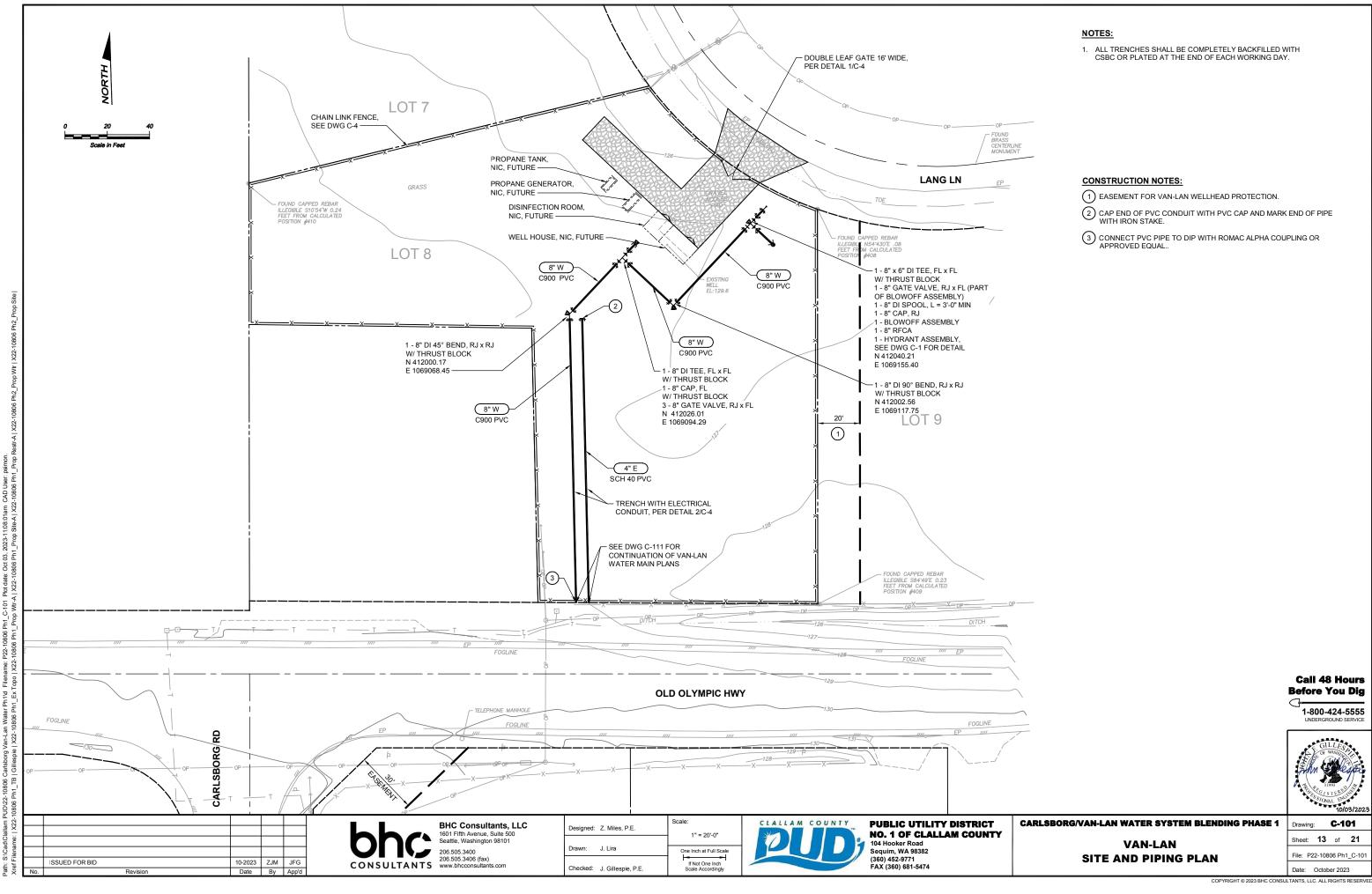
Sheet: 11 of 21

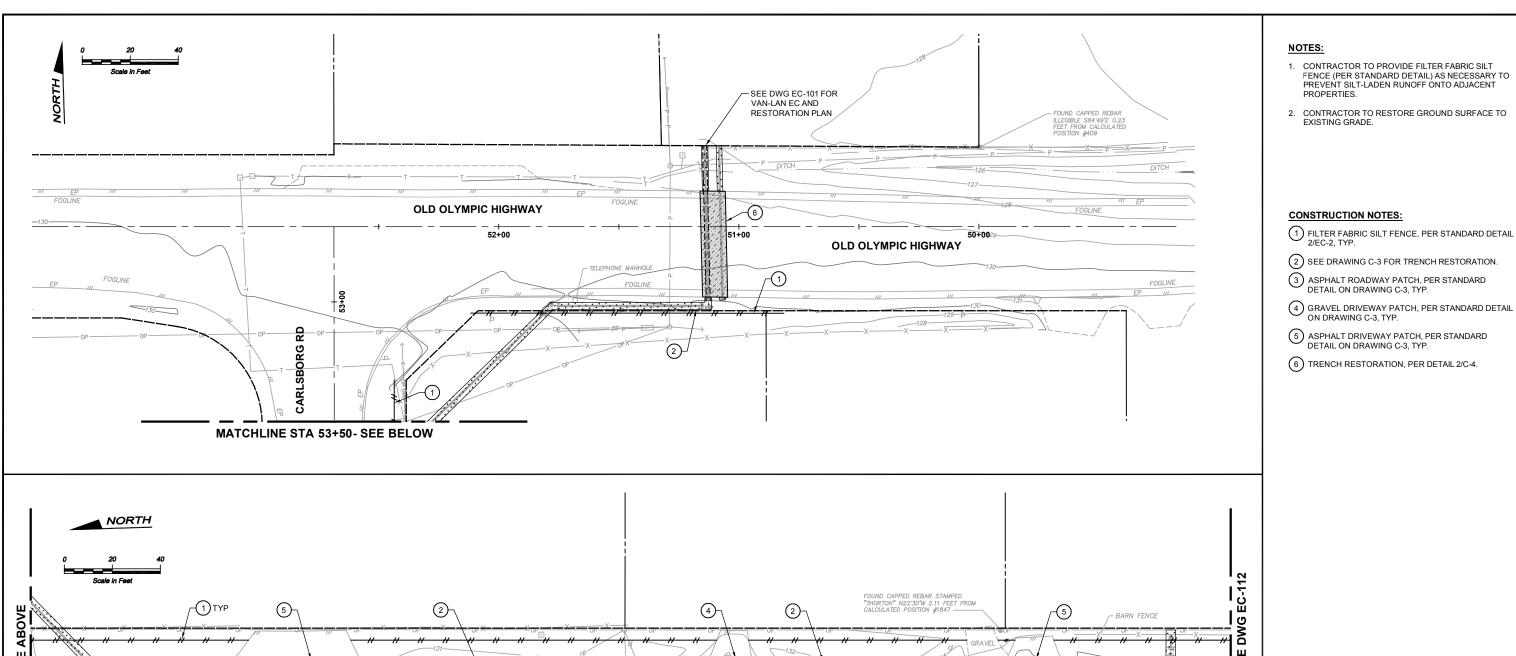
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Date: October 2023

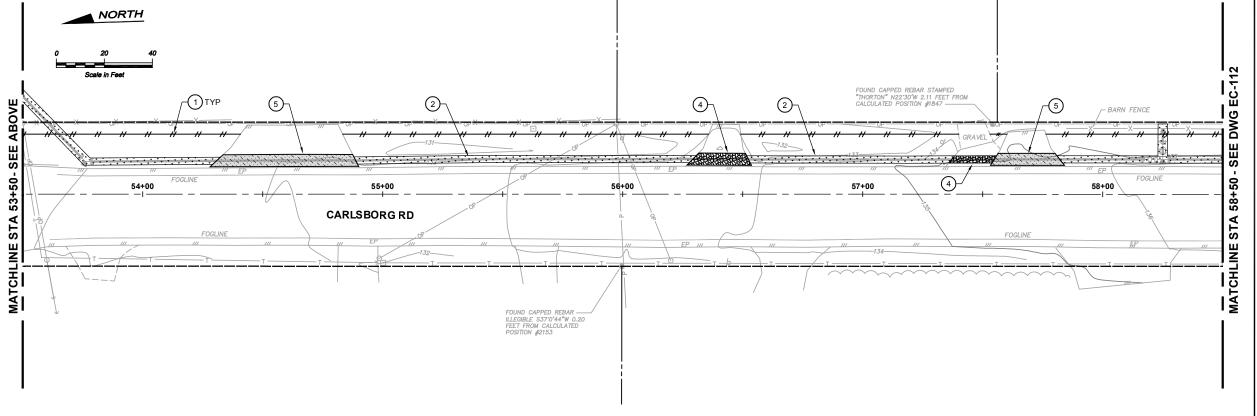
CARLSBORG/VAN-LAN WATER SYSTEM BLENDING PHASE 1







- 1. CONTRACTOR TO PROVIDE FILTER FABRIC SILT FENCE (PER STANDARD DETAIL) AS NECESSARY TO PREVENT SILT-LADEN RUNOFF ONTO ADJACENT
- 2. CONTRACTOR TO RESTORE GROUND SURFACE TO EXISTING GRADE.
- 2) SEE DRAWING C-3 FOR TRENCH RESTORATION.
- GRAVEL DRIVEWAY PATCH, PER STANDARD DETAIL ON DRAWING C-3, TYP.
- 6 TRENCH RESTORATION, PER DETAIL 2/C-4.



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Designed: Z. Miles, P.E. 1" = 20'-0" Drawn: J. Lira One Inch at Full Scale

If Not One Inch
Scale Accordingly Checked: J. Gillespie, P.E.



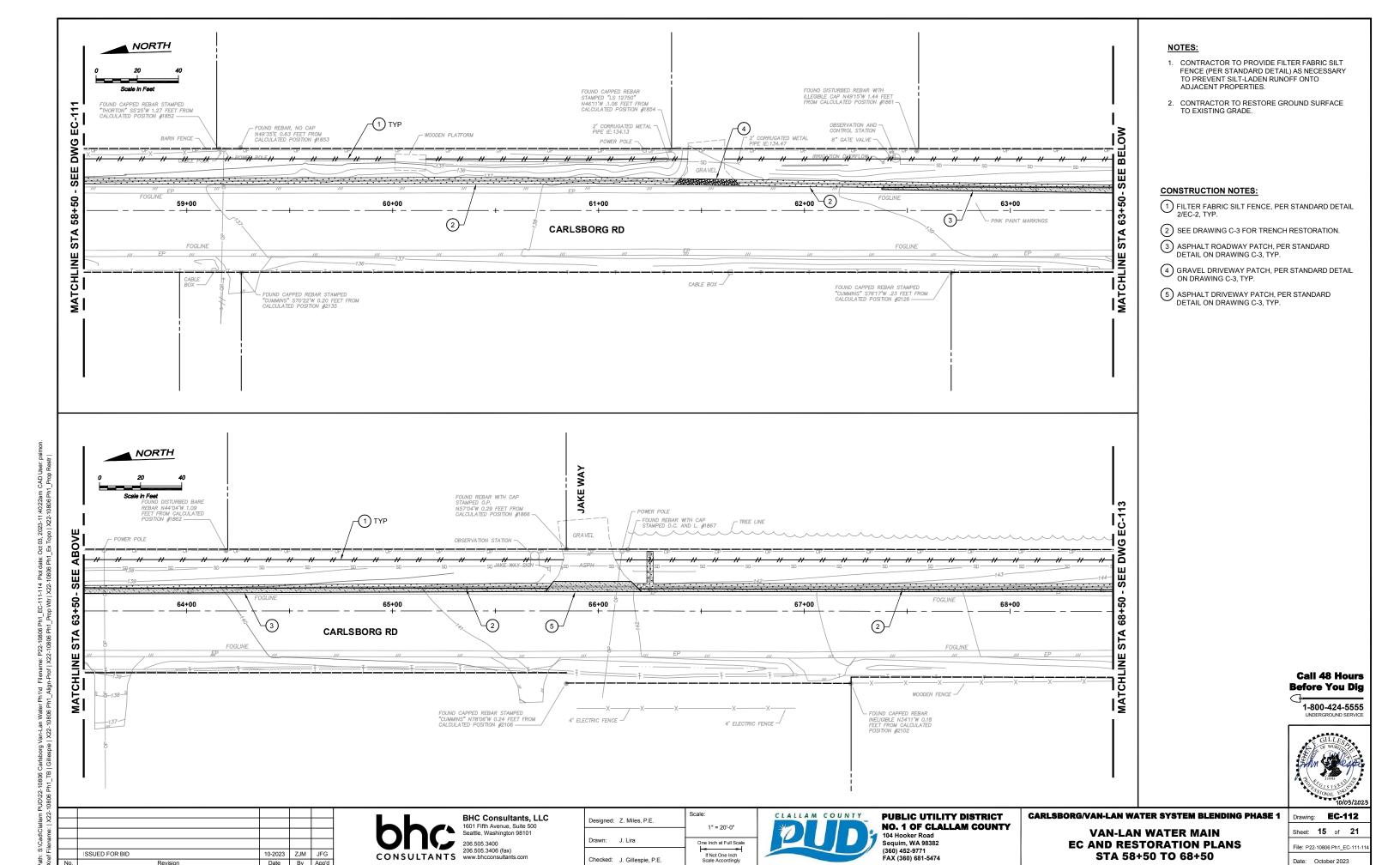
PUBLIC UTILITY DISTRICT NO. 1 OF CLALLAM COUNTY

Sequim. WA 98382 (360) 452-9771 FAX (360) 681-5474 CARLSBORG/VAN-LAN WATER SYSTEM BLENDING PHASE 1

VAN-LAN WATER MAIN EC AND RESTORATION PLANS STA 50+00 TO 58+50

Drawing: **EC-111**

Sheet: **14** of **21**



Checked: J. Gillespie, P.E.

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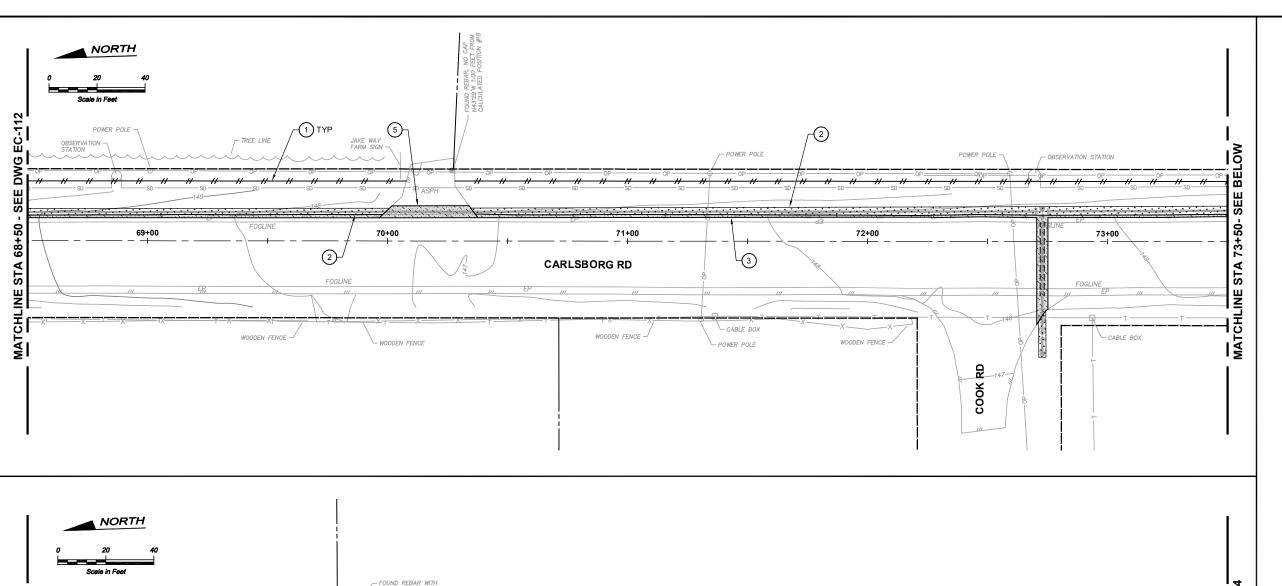
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EC AND RESTORATION PLANS

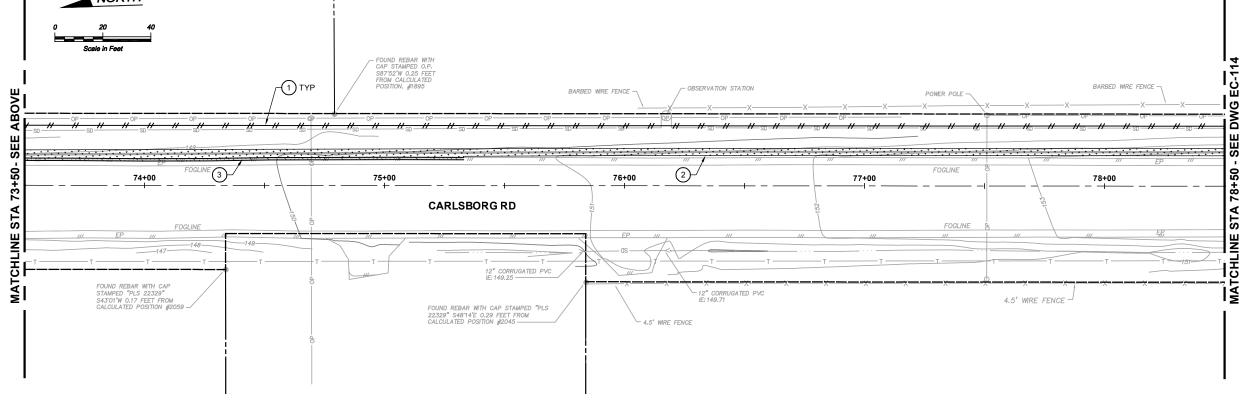
STA 58+50 TO 68+50



- 1. CONTRACTOR TO PROVIDE FILTER FABRIC SILT FENCE (PER STANDARD DETAIL) AS NECESSARY TO PREVENT SILT-LADEN RUNOFF ONTO ADJACENT PROPERTIES.
- 2. CONTRACTOR TO RESTORE GROUND SURFACE TO EXISTING GRADE.

CONSTRUCTION NOTES:

- 1 FILTER FABRIC SILT FENCE, PER STANDARD DETAIL 2/EC-2, TYP.
- (2) SEE DRAWING C-3 FOR TRENCH RESTORATION.
- 3 ASPHALT ROADWAY PATCH, PER STANDARD DETAIL ON DRAWING C-3, TYP.
- 4 GRAVEL DRIVEWAY PATCH, PER STANDARD DETAIL ON DRAWING C-3, TYP.
- 5 ASPHALT DRIVEWAY PATCH, PER STANDARD DETAIL ON DRAWING C-3, TYP.



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Scale Accordingly Checked: J, Gillespie, P.E.

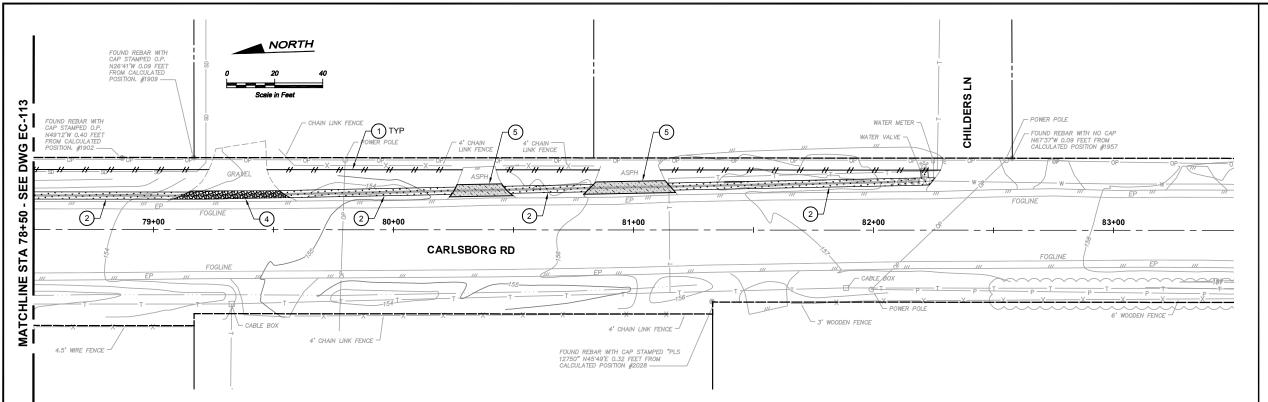


PUBLIC UTILITY DISTRICT NO. 1 OF CLALLAM COUNTY

VAN-LAN WATER MAIN EC AND RESTORATION PLANS

STA 68+50 TO 78+50

CARLSBORG/VAN-LAN WATER SYSTEM BLENDING PHASE 1 orawing: **EC-113** Sheet: 16 of 21



- 1. CONTRACTOR TO PROVIDE FILTER FABRIC SILT FENCE (PER STANDARD DETAIL) AS NECESSARY TO PREVENT SILT-LADEN RUNOFF ONTO ADJACENT PROPERTIES.
- 2. CONTRACTOR TO RESTORE GROUND SURFACE TO EXISTING GRADE.

CONSTRUCTION NOTES:

- 1) FILTER FABRIC SILT FENCE, PER STANDARD DETAIL 2/EC-2, TYP.
- (2) SEE DRAWING C-3 FOR TRENCH RESTORATION.
- 3 ASPHALT ROADWAY PATCH, PER STANDARD DETAIL ON DRAWING C-3, TYP.
- 4 GRAVEL DRIVEWAY PATCH, PER STANDARD DETAIL ON DRAWING C-3, TYP.
- 5 ASPHALT DRIVEWAY PATCH, PER STANDARD DETAIL ON DRAWING C-3, TYP.

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If Not One Inch
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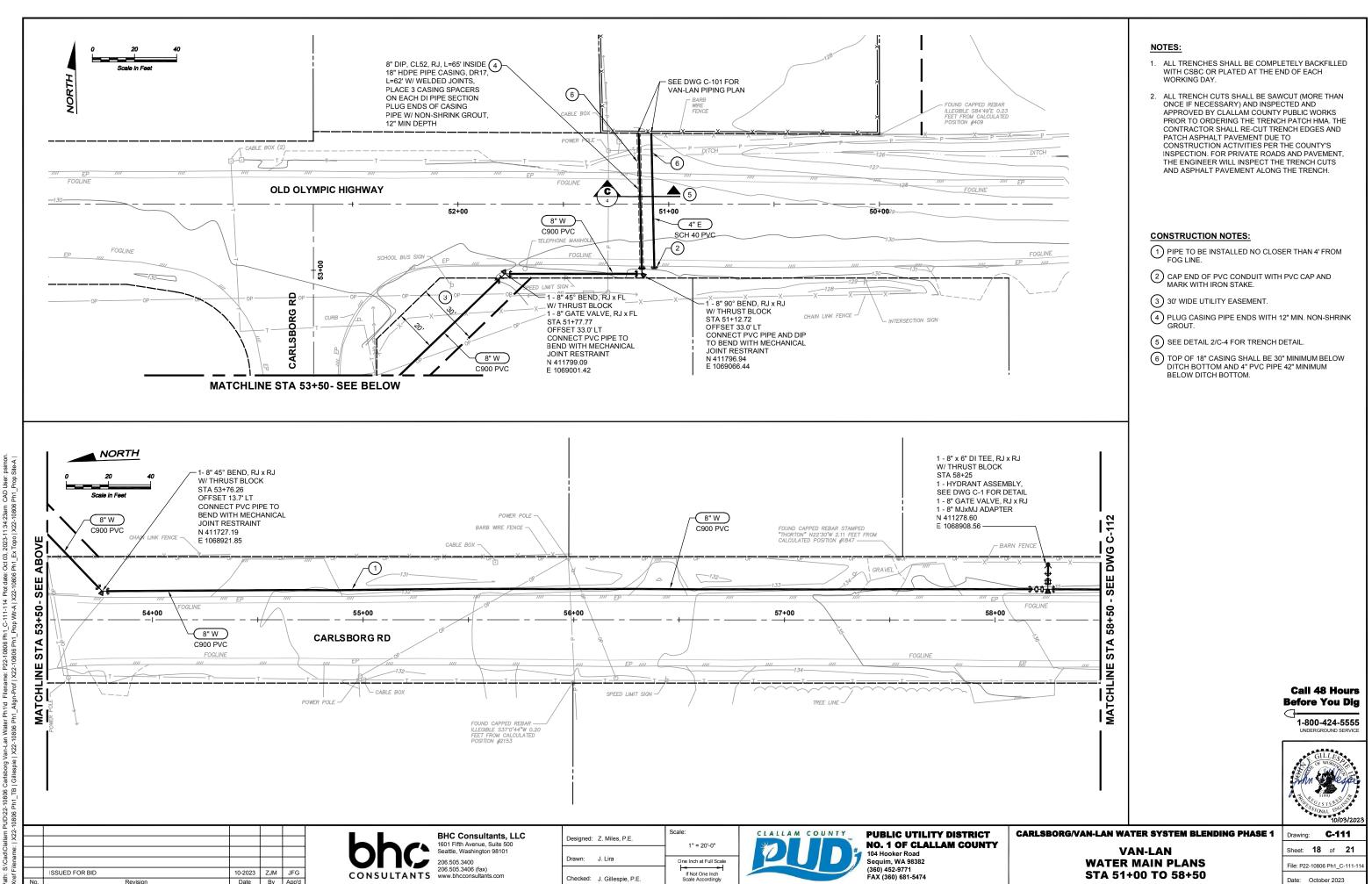
PUBLIC UTILITY DISTRICT NO. 1 OF CLALLAM COUNTY

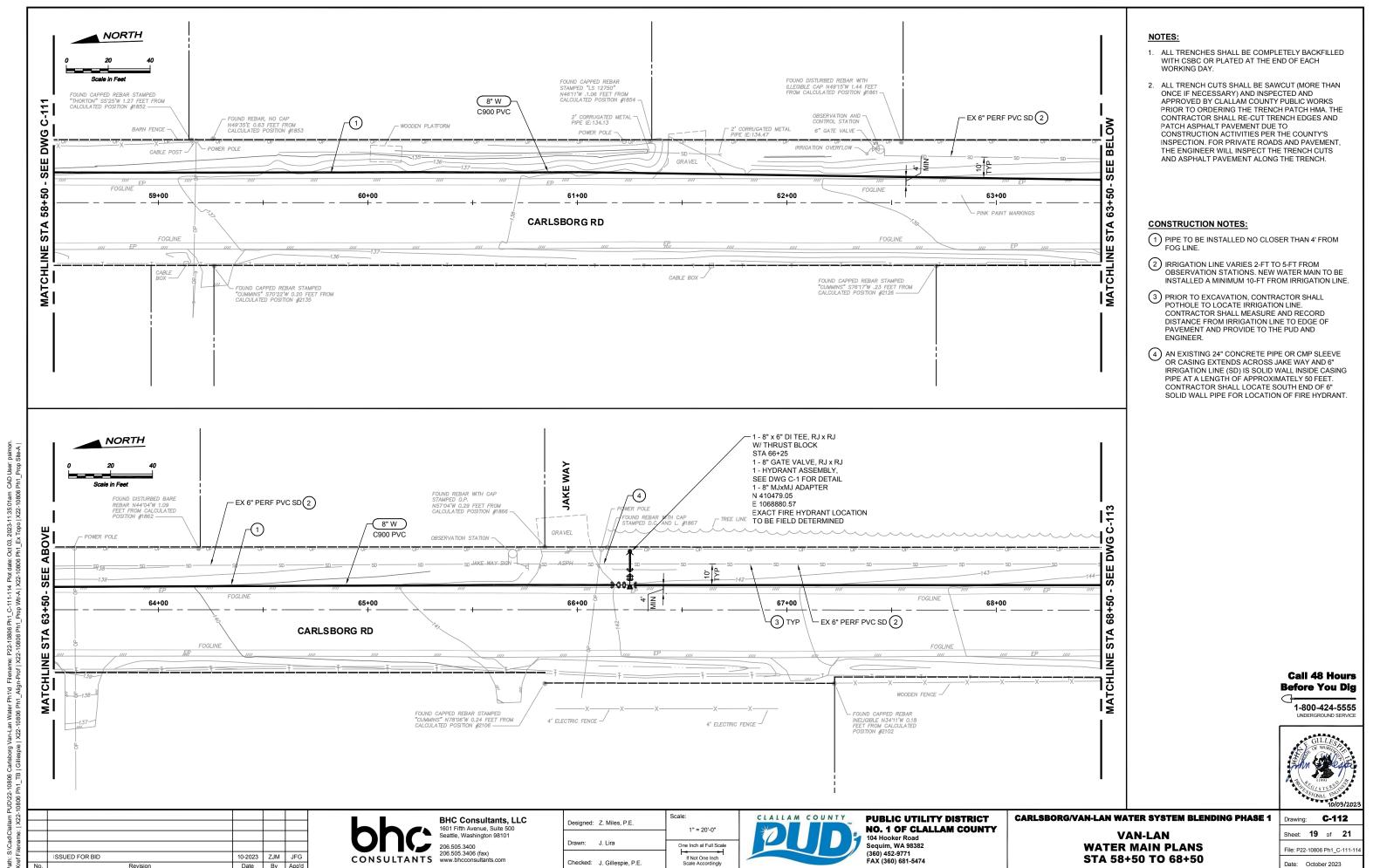
104 Hooker Road Sequim, WA 98382 (360) 452-9771 FAX (360) 681-5474 CARLSBORG/VAN-LAN WATER SYSTEM BLENDING PHASE 1

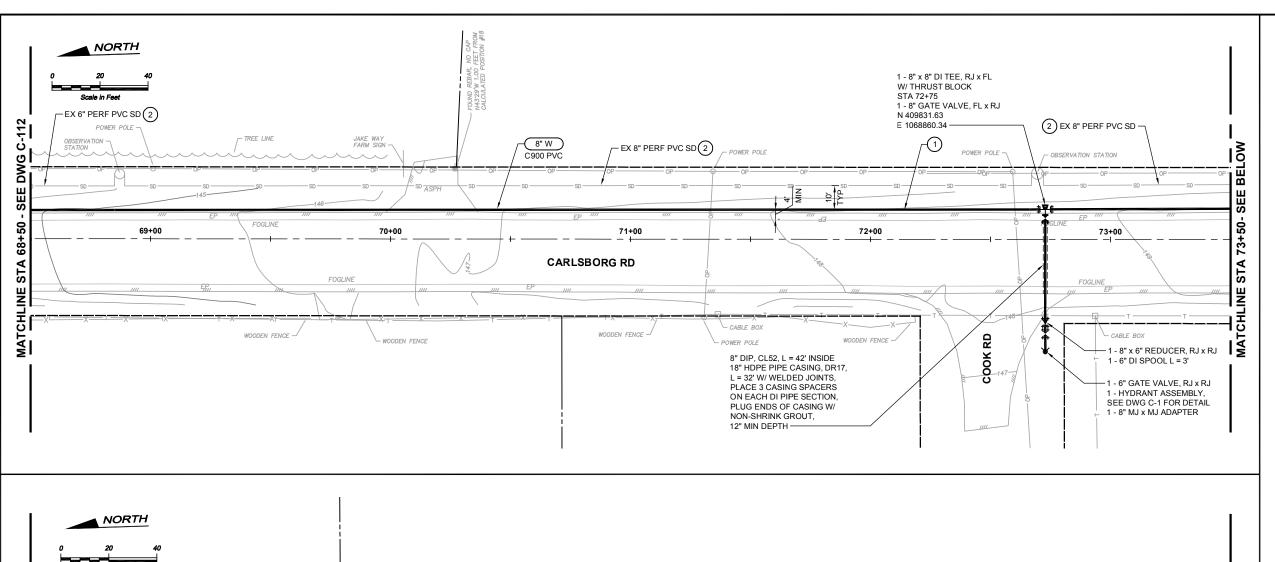
VAN-LAN WATER MAIN EC AND RESTORATION PLANS STA 78+50 TO 83+50

Drawing: EC-114

Sheet: **17** of **21** File: P22-10806 Ph1_EC-111-1 Date: October 2023



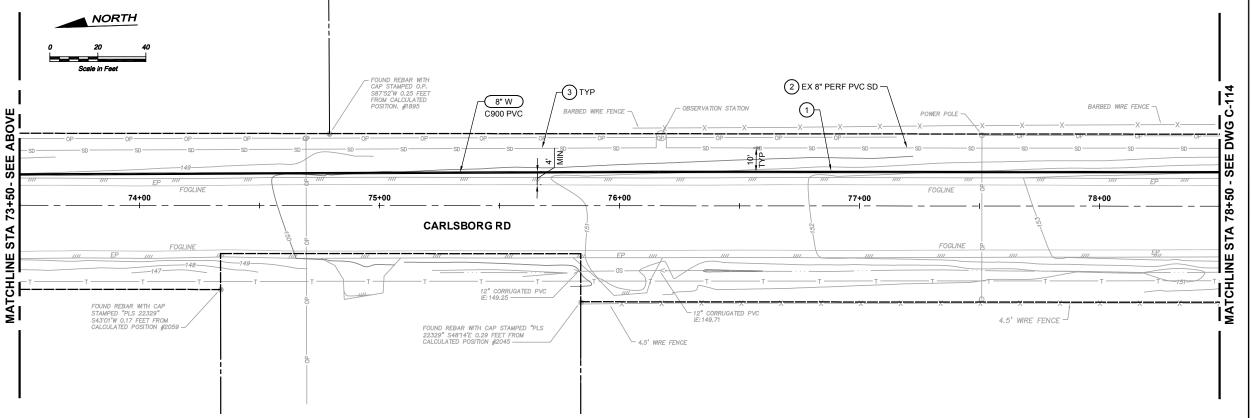




- 1. ALL TRENCHES SHALL BE COMPLETELY BACKFILLED WITH CSBC OR PLATED AT THE END OF EACH
- 2. ALL TRENCH CUTS SHALL BE SAWCUT (MORE THAN ONCE IF NECESSARY) AND INSPECTED AND APPROVED BY CLALLAM COUNTY PUBLIC WORKS PRIOR TO ORDERING THE TRENCH PATCH HMA. THE CONTRACTOR SHALL RE-CUT TRENCH EDGES AND PATCH ASPHALT PAVEMENT DUE TO CONSTRUCTION ACTIVITIES PER THE COUNTY'S INSPECTION. FOR PRIVATE ROADS AND PAVEMENT, THE ENGINEER WILL INSPECT THE TRENCH CUTS AND ASPHALT PAVEMENT ALONG THE TRENCH.

CONSTRUCTION NOTES:

- 1 PIPE TO BE INSTALLED NO CLOSER THAN 4' FROM FOG LINE.
- (2) IRRIGATION LINE VARIES 2-FT TO 5-FT FROM OBSERVATION STATIONS. NEW WATER MAIN TO BE INSTALLED A MINIMUM 10-FT FROM IRRIGATION LINE.
- 3 PRIOR TO EXCAVATION, CONTRACTOR SHALL POTHOLE TO LOCATE IRRIGATION LINE. CONTRACTOR SHALL MEASURE AND RECORD DISTANCE FROM IRRIGATION LINE TO EDGE OF PAVEMENT AND PROVIDE TO THE PUD AND



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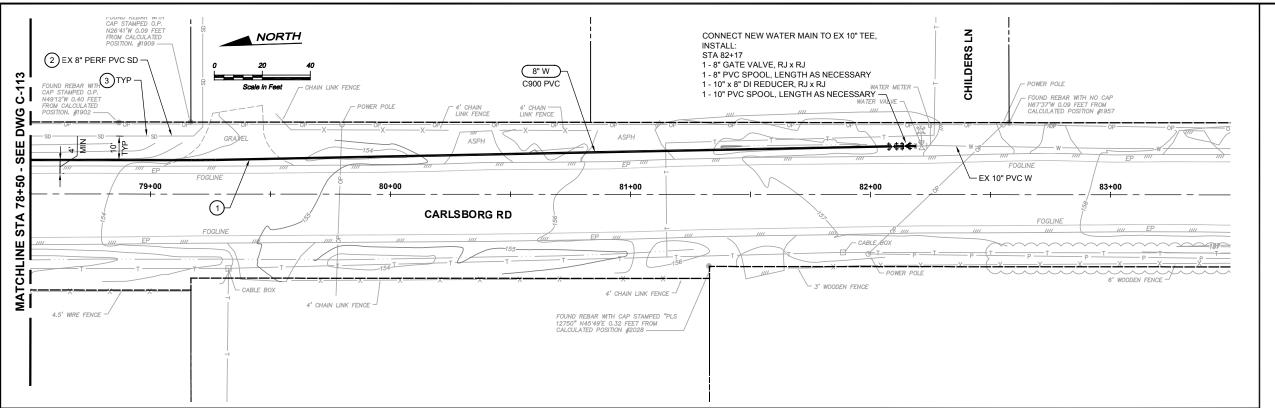


PUBLIC UTILITY DISTRICT NO. 1 OF CLALLAM COUNTY Sequim. WA 98382

VAN-LAN WATER MAIN PLANS STA 68+50 TO 78+50

CARLSBORG/VAN-LAN WATER SYSTEM BLENDING PHASE 1 C-113

Sheet: **20** of **21** Date: October 2023



- 1. ALL TRENCHES SHALL BE COMPLETELY BACKFILLED WITH CSBC OR PLATED AT THE END OF EACH
- 2. ALL TRENCH CUTS SHALL BE SAWCUT (MORE THAN ONCE IF NECESSARY) AND INSPECTED AND APPROVED BY CLALLAM COUNTY PUBLIC WORKS PRIOR TO ORDERING THE TRENCH PATCH HMA. THE CONTRACTOR SHALL RE-CUT TRENCH EDGES AND PATCH ASPHALT PAVEMENT DUE TO CONSTRUCTION ACTIVITIES PER THE COUNTY'S INSPECTION. FOR PRIVATE ROADS AND PAVEMENT, THE ENGINEER WILL INSPECT THE TRENCH CUTS AND ASPHALT PAVEMENT ALONG THE TRENCH.

CONSTRUCTION NOTES:

- 1 PIPE TO BE INSTALLED NO CLOSER THAN 4' FROM FOG LINE.
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- 3 PRIOR TO EXCAVATION, CONTRACTOR SHALL POTHOLE TO LOCATE IRRIGATION LINE. CONTRACTOR SHALL MEASURE AND RECORD DISTANCE FROM IRRIGATION LINE TO EDGE OF PAVEMENT AND PROVIDE TO THE PUD AND

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If Not One Inch
Scale Accordingly Checked: J. Gillespie, P.E.



PUBLIC UTILITY DISTRICT NO. 1 OF CLALLAM COUNTY Sequim. WA 98382

CARLSBORG/VAN-LAN WATER SYSTEM BLENDING PHASE 1

VAN-LAN WATER MAIN PLANS STA 78+50 TO 82+50 Drawing: C-114

Sheet: **21** of **21** File: P22-10806 Ph1_C-111-1 Date: October 2023