Washington State
Department of Transportation

Please fill out the information below and return this page by fax to **(360) 705-6810** or scan and return by e-mail to **ADDENDA@WSDOT.WA.GOV**

ADDENDUM #: 1

RECEIVED BY: _____ DATE: _____
(Please print name)

SIGNATURE: _____

COMPANY: _____

ALL PRIME CONTRACTORS MUST ACKNOWLEDGE THIS ADDENDUM.
22A021/9896
SR 534, UNNAMED TRIBUTARY TO CARPENTER CREEK FISH PASSAGE

Contract Provisions and Plans

009896

For Construction of:

SR 534 MP 0.49 TO MP 0.69

UNNAMED TRIBUTARY TO CARPENTER CREEK FISH PASSAGE

SKAGIT COUNTY

A STATE PROJECT

ALL ADDENDUM INCORPORATED

ASC 2024 Competition:

Bid Close: Thursday, February 08, 2024 at 9:30pm

SVBE & MWBE Goals can be omitted for your submission, as this will not be a requirement for the Problem.

Addendum #1 Changes:
- (One) 1 Working Day added to Contractor
- 24 Hours added to the SR534 Full Roadway Closure

Washington State Department of Transportation

Department of Transportation
Olympia, Washington 98504
November 18, 2022

ATTENTION: All Bidders and Planholders

SR 534
UNNAMED TRIBUTARY TO CARPENTER CREEK
FISH PASSAGE
22A021/9896

Addendum No. 1

The Special Provisions, Plans, and Proposal for this project are amended as follows:

Special Provisions

1. On page 12, line 22 through line 39 is deleted.

2. On page 33 at line 48, the following is inserted:

   Section 1-10.2 is supplemented with the following:

   (November 2, 2022)
   Work Zone Safety Contingency
   Enhancements to improve the effectiveness of the accepted traffic control plans to increase the safety of the work zones shall be discussed on a weekly basis between the Contractor and the Contracting Agency. Enhancements shall be mutually agreed upon by the Contractor and Engineer prior to performing any Work to implement the enhancement.

   Enhancements do not include the use of Uniformed Police Officers or WSP, address changes to the allowed work hour restrictions, or changes to the staging plans in the Contract (if applicable). If allowed by the Engineer, these items will be addressed in accordance with Section 1-04.4.

   The Contractor shall be solely responsible for submitting any traffic control plan revision to implement the enhancement in accordance with Section 1-10.2(2).

3. On page 38, line 23 through line 28 is deleted and replaced with the following:

   (November 2, 2022)
   The Bid Proposal contains the item "Project Temporary Traffic Control," lump sum and the additional temporary traffic control items listed below. The provisions of Section 1-10.4(1), Section 1-10.4(3), and Section 1-10.5(3) shall apply.

   "Work Zone Safety Contingency", by force account.

   *** Construction Signs Class A ***

4. On page 38 at line 29, the following is inserted:

Payment

Item Bids with Lump Sum for Incidentals

Section 1-10.5(2) is supplemented with the following:

(November 2, 2022)
"Work Zone Safety Contingency", by force account.

All costs as authorized by the Engineer will be paid for by force account as specified in Section 1-09.6.

For purpose of providing a common proposal for all bidders, the Contracting Agency has entered an amount for the item "Work Zone Safety Contingency" in the Proposal to become a part of the Contractor's total bid.

The Engineer may choose to use existing bid items for the implementation of the agreed upon enhancement.

5. On page 41, line 9 through line 16 is deleted and replaced with the following:

The lump sum Contract price for "Removal of Structures and Obstructions" shall be full payment for performing the Work as specified, including furnishing the backfill material, backfilling, and compacting the voids created from culvert, pipe, drainage structure, fence, gate, and conduit; and all other removals, as specified.

6. On page 41, line 49 through page 42, line 5 is deleted and replaced with the following:

Roadway Excavation Incl. Haul	205 C.Y.
Structure Excavation Cl. A Incl. Haul	1,150 C.Y.
Channel Excavation Incl. Haul	2,530 C.Y.
Embankment Compaction	230 C.Y.
Gravel Borrow Incl. Haul	440 Ton
Gravel Backfill for Walls	5,170 Ton
Crushed Surfacing Base Course (CDBS No.1)	260 Ton
Lightweight Volcanic Backfill Incl. Haul	1,625 Ton

7. On page 43 at line 31, the following is inserted:

Construction Geosynthetic

Materials

Section 2-12.2 is supplemented with the following:

"Geosynthetic Base Reinforcement" material shall meet the requirements of Section 9-33 and shall be chosen from the WSDOT Qualified Products List Appendix D. The "Geosynthetic Base Reinforcement" shall have a long-term tensile strength (T_{al}) that meets or exceeds 5,000 Lb/Ft.

Construction Requirements

Section 2-12.3 is supplemented with the following:

"Geosynthetic Base Reinforcement" shall follow the guidelines of this Section and be installed per Manufacturer's requirements.

Measurement

Section 2-12.4 is supplemented with the following:

"Geosynthetic Base Reinforcement" will be measured by the square yard for the ground surface area actually covered.

Payment

Section 2-12.5 is supplemented with the following:

"Geosynthetic Base Reinforcement", per square yard.

8. On page 65, line 19 is deleted and replaced with the following:

   Temporary dewatering system Type 3E Working Drawings and supporting design calculations

9. On page 68, line 4 through page 74, line 15 is deleted.

10. On page 79, line 48 through page 80, line 44 is deleted.

11. On page 81, line 49-50 is deleted.

12. On page 84 at line 17, the following is inserted:

Illumination, Traffic Signal Systems, Intelligent Transportation Systems, and Electrical

Materials

Illumination, Signal, Electrical

Conduit, Innerduct, and Outerduct

Rigid Metal Conduit Fittings and Appurtenances

Section 9-29.1(2) is supplemented with the following:

(NWR ESP August 25, 2020)
Conduit Coatings
Electroplated couplings are not allowed.

(NWR ESP August 25, 2020)
Surface Mounting Conduit Attachment Components
Channel supports and all fastening hardware components shall be Type 304 stainless steel. Conduit clamps shall be one piece, two bolt units with lock washers.

Junction Boxes, Cable Vaults, and Pull Boxes

Cover Markings

Section 9-29.2(4) is supplemented with the following:

(NWR ESP August 25, 2020)
Junction Box Identification
Junction boxes shall be marked "WSDOT" when the junction boxes are to be installed as part of a future raceway system in a bridge structure, vehicle barrier, pedestrian barrier, or roadway crossing and the future raceway system is not connected to an illumination, signal, interconnect, or ITS raceway system.

Construction Requirements

Junction Boxes, Cable Vaults, and Pull boxes

Section 8-20.3(6) is supplemented with the following:

(NWR ESP August 25, 2020)
Unless otherwise noted in the Plans or approved by the Engineer, junction boxes, cable vaults and pull boxes shall not be placed within the traveled way or paved shoulders.

All junction boxes, cable vaults, and pull boxes placed within the traveled way or paved shoulders shall be heavy-duty.

Wiring shall not be pulled into any conduit until all associated junction boxes have been adjusted to, or installed in, their final grade and location, unless installation is necessary to maintain system operation. If wire is installed for this reason, sufficient slack shall be left to allow for future adjustment.

Prior to installing new cables or reinstalling existing cables into new or existing cable vaults, pull boxes or junction boxes, the cable vault, pull box or junction box shall be cleaned of all dirt and debris.

When junction boxes, cable vaults and pull boxes are installed or adjusted prior to construction of finished grade, pre-molded joint filler for expansion joints may be placed around the junction boxes, cable vaults and pull boxes. The joint filler shall be removed prior to adjustment to finished grade.

When junction boxes, cable vaults or pull boxes are adjusted to finished grade, the six-inch gravel pad requirements shall be maintained. When existing junction boxes pull boxes or cable vaults do not have this gravel pad, or the gravel pad does not meet these Specifications, a gravel pad, meeting these Specifications shall be installed as part of the adjustment to finished grade.

Heavy-duty Type 4, 5 and 6 junction boxes, cable vaults and pull boxes shall be installed in accordance with the following:

1. Excavation shall be sufficient to leave one foot in the clear between their outer surface and the earth bank.

2. Junction boxes, cable vaults and pull boxes shall be installed on a level 6-inch layer of crushed surfacing top course, in accordance with Section 9-03.9(3), placed on a compacted or undisturbed foundation. The crushed surfacing shall be compacted in accordance with Section 2-09.3(1)E.

3. After installation, the lid/cover shall be kept bolted down during periods when Work is not actively in progress at the junction box, cable vault or pull box.

4. Before closing the lid/cover, the lid/cover and the frame/ring shall be thoroughly brushed and cleaned of all debris. There shall be absolutely no visible dirt, sand or other foreign matter between the bearing surfaces.

5. When the lid/cover is closed for the final time, a liberal coating of anti-seize compound shall be applied to the bolts and nuts and the lid shall be securely tightened.

6. Hinges on the Type 4, 5 and 6 junction boxes shall be located on the side of the box, to allow the lid to open away from traffic. Hinges shall allow the lid to open 180 degrees.

Payment

Section 8-20.5 is supplemented with the following:

(NWR ESP August 25, 2020)
All costs for conduit, junction boxes, and associated hardware and fittings installed on or within a structural item (wall, bridge, or barrier) shall be included in the respective lump sum Bid item for Work on the associated electrical or conduit system.

Temporary Stream Diversion

Construction Requirements

General

General TSD Requirements

Section 8-31.3(1)A is supplemented with the following:

(October 3, 2022)
Minimum Stream Flows
At all times of operation, the Contractor's temporary stream diversion shall be designed to convey the following minimum flow rate of water in cubic feet per second:

*** 4 ***

(October 3, 2022)
Minimum Stream Flows (Contingency System)
A Contingency System is required for this Project. The Contractor's contingency system shall be designed to convey the following minimum flow rate of water in cubic feet per second:

*** 7 ***

Plans

1. Plan Sheets 1, 4-8, 15, 36-39 are revised, clouded, shaded, and noted.
2. Plan Sheet 39A (IL1) is added.

Proposal

1. On page 2, Bid Item 21 name is revised.
2. On page 6, Bid Item 75-78 are added.

Bidders shall furnish the Secretary of Transportation with evidence of the receipt of this addendum. This addendum will be incorporated in the Contract when awarded and when formally executed.

Mark Gaines, P.E.
State Design Engineer

Attachment:
Sheets 1, 2A, 4-8, 15, 36-39, 39A of the Plans (Rev. 11-08-2022)
Page 2 and 6 of the Proposal (Rev. 11-09-22)

TO THE SECRETARY OF
TRANSPORTATION
OLYMPIA, WASHINGTON

DATE: 11/10/2022
TIME: 12:06
DOT_RGG600

ITEM NO.	PLAN QUANTITY	ITEM DESCRIPTION (STANDARD ITEM NUMBER)	PRICE PER UNIT DOLLARS	TOTAL AMOUNT DOLLARS
		PREPARATION		
1	LUMP SUM	MOBILIZATION (0001)	LUMP SUM	
2	0.63 ACRE	CLEARING AND GRUBBING (0025)	AT PER. ACRE	
3	LUMP SUM	REMOVAL OF STRUCTURES AND OBSTRUCTIONS (0050)	LUMP SUM	
4	25. LIN. FT.	REMOVING GUARDRAIL (0170)	AT PER. LIN. FT.	
5	1. EACH	REMOVING GUARDRAIL ANCHOR (0182)	AT PER. EACH	
		GRADING		
6	LUMP SUM	EARTHWORK ( )	LUMP SUM	
		DRAINAGE		
7	100. TON	STREAMBED SAND ( )	AT PER. TON	
8	1,340. TON	STREAMBED SEDIMENT (1093)	AT PER. TON	
9	770. TON	STREAMBED COBBLES 12 IN. (0904)	AT PER. TON	
10	50. TON	STREAMBED BOULDER TYPE ONE (0906)	AT PER. TON	
11	10. TON	AQUITARD ( )	AT PER. TON	
12	LUMP SUM	STREAMBED TEST SECTION ( )	LUMP SUM	

ITEM NO.	PLAN QUANTITY	ITEM DESCRIPTION (STANDARD ITEM NUMBER)	PRICE PER UNIT DOLLARS	TOTAL AMOUNT DOLLARS
		DRAINAGE		
13	6. TON	QUARRY SPALLS (1086)	AT PER. TON	
14	1. EACH	FLARED END SECTION 30 IN. DIAM. (1105)	AT PER. EACH	
15	LUMP SUM	TEMPORARY STREAM DIVERSION (3075)	LUMP SUM	
16	ESTIMATED	FISH EXCLUSION (3076)	ESTIMATED	5,000.00
17	4. EACH	WOODY MATERIAL - LOG WITHOUT ROOTWAD DBH 1.5 FT. ( )	AT PER. EACH	
18	19. EACH	WOODY MATERIAL - LOG WITH ROOTWAD DBH 2.0 FT. ( )	AT PER. EACH	
19	40. EACH	WOODY MATERIAL - LOG WITH ROOTWAD DBH 1.5 FT. ( )	AT PER. EACH	
20	10. CU. YD.	SLASH ( )	AT PER. CU. YD.	
21	ESTIMATED	ADDITIONAL STREAMBED GRADING ( )	ESTIMATED	5,000.00
		STRUCTURE		
22	LUMP SUM	SHORING OR EXTRA EXCAVATION CL. A FOR CDBS NO. 1 (4013)	LUMP SUM	
23	CALCULATED	DEFICIENT STRENGTH CONC. PRICE ADJUSTMENT (4219)	CALCULATED	-1.00
24	LUMP SUM	CONTRACTOR DESIGNED BURIED STRUCTURE NO. 1 (4335)	LUMP SUM	
25	55. SQ. YD.	WATERPROOF MEMBRANE BR. NO. CDBS NO.1 (4455)	AT PER. SQ. YD.	

ITEM NO.	PLAN QUANTITY	ITEM DESCRIPTION (STANDARD ITEM NUMBER)	PRICE PER UNIT DOLLARS	TOTAL AMOUNT DOLLARS
		SURFACING		
26	107. TON	CRUSHED SURFACING BASE COURSE (5100)	AT PER. TON	
		HOT MIX ASPHALT		
27	140. SQ. YD.	PLANING BITUMINOUS PAVEMENT (5711)	AT PER. SQ. YD.	
28	194. TON	HMA CL. 1/2 IN. PG 58H-22 (5767)	AT PER. TON	
29	CALCULATED	JOB MIX COMPLIANCE PRICE ADJUSTMENT (5830)	CALCULATED	1,746.00
30	CALCULATED	COMPACTION PRICE ADJUSTMENT (5835)	CALCULATED	2,910.00
31	CALCULATED	ASPHALT COST PRICE ADJUSTMENT (5837)	CALCULATED	965.00
		EROSION CONTROL AND ROADSIDE PLANTING		
32	3,025. LIN. FT.	COMPOST SOCK FOR SOIL STABILIZATION ( )	AT PER. LIN. FT.	
33	63. LIN. FT.	PLANTED COMPOST SOCK ( )	AT PER. LIN. FT.	
34	LUMP SUM	EROSION CONTROL AND WATER POLLUTION PREVENTION (6488)	LUMP SUM	
35	1,462. SQ. YD.	SEEDING, FERTILIZING AND MULCHING (6431)	AT PER. SQ. YD.	
36	35. EACH	PLANT SELECTION SMALL FRUITED BULRUSH (3-4 IN. PLUG) (6550)	AT PER. EACH	
37	35. EACH	PLANT SELECTION SLOUGH SEDGE (3-4 IN. PLUG) (6550)	AT PER. EACH	
38	35. EACH	PLANT SELECTION SALMONBERRY (NO. 1 CONT.) (6550)	AT PER. EACH	

ITEM NO.	PLAN QUANTITY	ITEM DESCRIPTION (STANDARD ITEM NUMBER)	PRICE PER UNIT DOLLARS	TOTAL AMOUNT DOLLARS
		EROSION CONTROL AND ROADSIDE PLANTING		
39	35. EACH	PLANT SELECTION PACIFIC NINEBARK (NO. 1 CONT.) (6550)	AT PER. EACH	
40	35. EACH	PLANT SELECTION DOUGLAS SPIREA (NO. 1 CONT.) (6550)	AT PER. EACH	
41	868. LIN. FT.	BRUSH LAYER (6558)	AT PER. LIN. FT.	
42	632. LIN. FT.	FASCINES (6553)	AT PER. LIN. FT.	
43	1,462. SQ. YD.	FINE COMPOST (6483)	AT PER. SQ. YD.	
44	274. SQ. YD.	SOIL AMENDMENT (6530)	AT PER. SQ. YD.	
45	268. SQ. YD.	BARK OR WOOD CHIP MULCH (6580)	AT PER. SQ. YD.	
46	6. EACH	BARK OR WOOD CHIP MULCH RINGS (6578)	AT PER. EACH	
47	140. LIN. FT.	HIGH VISIBILITY FENCE (6630)	AT PER. LIN. FT.	
48	910. LIN. FT.	HIGH VISIBILITY SILT FENCE (6635)	AT PER. LIN. FT.	
49	LUMP SUM	ENVIRONMENTAL COMPLIANCE LEAD (6404)	LUMP SUM	
50	268. SQ. YD.	SOIL DECOMPACTION ( )	AT PER. SQ. YD.	
51	158. LIN. FT.	TRENCH PLANTINGS ( )	AT PER. LIN. FT.	
52	ESTIMATED	FORCE ACCOUNT SELECTIVE CLEARING AND PRUNING ( )	ESTIMATED	10,000.00

ITEM NO.	PLAN QUANTITY	ITEM DESCRIPTION (STANDARD ITEM NUMBER)	PRICE PER UNIT DOLLARS	TOTAL AMOUNT DOLLARS
		TRAFFIC		
53	25. LIN. FT.	BEAM GUARDRAIL TYPE 31 - 9 FT. LONG POST (6712)	AT PER. LIN. FT.	
54	75. LIN. FT.	BEAM GUARDRAIL TYPE 31 (6757)	AT PER. LIN. FT.	
55	4. EACH	BEAM GUARDRAIL TRANSITION SECTION TYPE 24 (6760)	AT PER. EACH	
56	3. EACH	BEAM GUARDRAIL TYPE 31 NON-FLARED TERMINAL (6719)	AT PER. EACH	
57	430. LIN. FT.	PAINT LINE (6806)	AT PER. LIN. FT.	
58	2. EACH	PLASTIC DRAINAGE MARKING (6881)	AT PER. EACH	
59	0.03 HUNDRED	RAISED PAVEMENT MARKER TYPE 2 (6884)	AT PER. HUNDRED	
60	150. LIN. FT.	TEMPORARY PAVEMENT MARKING-SHORT DURATION (6895)	AT PER. LIN. FT.	
61	LUMP SUM	PROJECT TEMPORARY TRAFFIC CONTROL (6971)	LUMP SUM	
62	72. SQ. FT.	CONSTRUCTION SIGNS CLASS A (6982)	AT PER. SQ. FT.	
		OTHER ITEMS		
63	LUMP SUM	TYPE B PROGRESS SCHEDULE (7003)	LUMP SUM	
64	1. EACH	PLUGGING EXISTING PIPE (7029)	AT PER. EACH	
65	LUMP SUM	STRUCTURE SURVEYING (7037)	LUMP SUM	
66	LUMP SUM	ROADWAY SURVEYING (7038)	LUMP SUM	

ITEM NO.	PLAN QUANTITY	ITEM DESCRIPTION (STANDARD ITEM NUMBER)	PRICE PER UNIT DOLLARS	TOTAL AMOUNT DOLLARS
		OTHER ITEMS		
67	ESTIMATED	ROADSIDE CLEANUP (7480)	ESTIMATED	1,000.00
68	ESTIMATED	REIMBURSEMENT FOR THIRD PARTY DAMAGE (7725)	ESTIMATED	5.00
69	CALCULATED	MINOR CHANGE (7728)	CALCULATED	-1.00
70	CALCULATED	AGGREGATE COMPLIANCE PRICE ADJUSTMENT (7732)	CALCULATED	-1.00
71	LUMP SUM	SPCC PLAN (7736)	LUMP SUM	
72	150. SQ. YD.	GEOMEMBRANE LINER ( )	AT PER. SQ. YD.	
73	LUMP SUM	DEWATERING PLAN ( )	LUMP SUM	
74	LUMP SUM	TEMPORARY DEWATERING SYSTEM ( )	LUMP SUM	
75	LUMP SUM	ILLUMINATION SYSTEM (6904)	LUMP SUM	
76	ESTIMATED	WORK ZONE SAFETY CONTINGENCY (7572)	ESTIMATED	25,000.00
77	905. SQ. YD.	CONSTRUCTION GEOTEXTILE FOR SOIL STABILIZATION (7552)	AT PER. SQ. YD.	
78	425. SQ. YD.	GEOSYNTHETIC BASE REINFORCEMENT ( )	AT PER. SQ. YD.	
			CONTRACT TOTAL:	$

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PLAN REFERENCE NO.

SHEET OF SHEETS

NOTE: ALL SHEET REFERENCES, FIRST NOS. OF STRUCTURE CODE DESIGNATIONS AND MATCH LINE SHEET REFERENCES, ETC., THROUGHOUT THE PLANS, REFER TO THE ENTRY IN THE PLAN REFERENCE NUMBER BOX.

FILE NAME	T:\412334\XL6097 SR534 Trib to Carpenter Ck FP\CAE\CAD\ContractPlans\Addendum\Addendum No. 1\SR534_010_PS_INDEX.dgn			
TIME	10:18:16 AM			
DATE	11/14/2022			
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DESIGNED BY	HARRIS. D			
ENTERED BY	HARRIS. D			
CHECKED BY	WILLIAMS. A			
PROJ. ENGR.	S. BEIER	AD1 - ADDED SHEET	11/08/2022	DH
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER 22A021		
CONTRACT NO.		LOCATION NO.

P.E. STAMP BOX DATE

P.E. STAMP BOX DATE

Washington State Department of Transportation

SR 534
UNNAMED TRIBUTARY TO CARPENTER CR
FISH PASSAGE

INDEX

Plot 1

PLAN REF. NO. IN1

SHEET 1 OF 48 SHEETS

PROJECT LICENSED PROFESSIONAL CERTIFICATES

Spencer Beier Oct 20, 2022 AS A LICENSED PROFESSIONAL IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION.	Julie Heilman Oct 20, 2022 AS A LICENSED PROFESSIONAL IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION.	Lindsey Jungbluth Oct 20, 2022 AS A LICENSED PROFESSIONAL IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION.	AS A LICENSED PROFESSIONAL IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION.
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NOTES:

THIS PLAN SET WAS DEVELOPED ELECTRONICALLY UNDER THE DIRECT SUPERVISION OF THE LICENSED PROFESSIONALS THAT HAVE AFFIXED THEIR SIGNATURE TO THIS PAGE.

THIS SHEET SERVES AS THE CERTIFICATION BY THE ABOVE LICENSED PROFESSIONALS OF ALL SHEETS IN THIS PLAN SET WHERE THEIR STAMPS AND SIGNATURES APPEAR.

PROJECT LICENSED PROFESSIONAL CERTIFICATES

Spencer Beier Nov 16, 2022 AS A LICENSED PROFESSIONAL IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION.	Duke Do Nov 16, 2022 AS A LICENSED PROFESSIONAL IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION.	AS A LICENSED PROFESSIONAL IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION.	AS A LICENSED PROFESSIONAL IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION.
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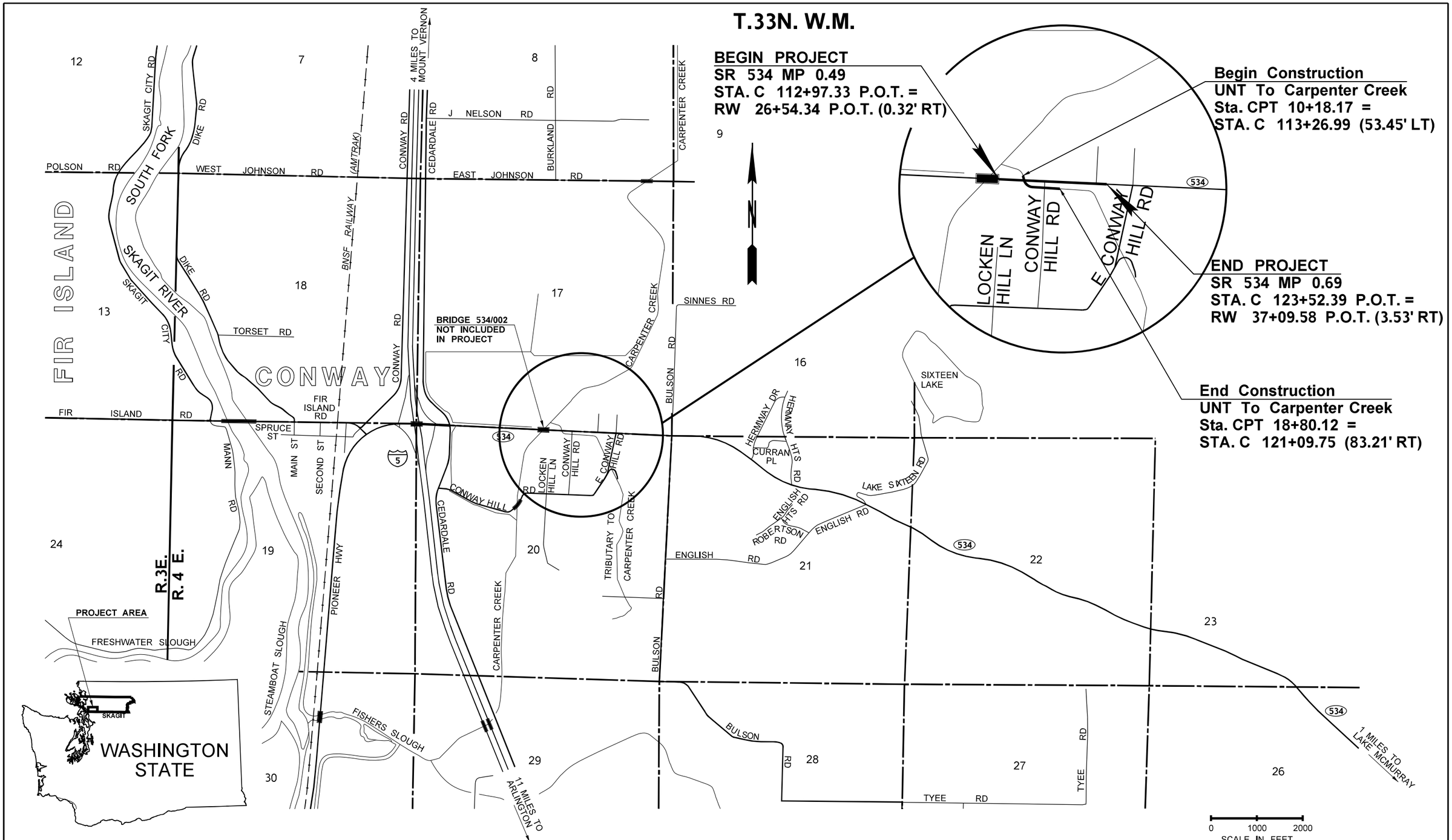
THIS PLAN SET WAS DEVELOPED ELECTRONICALLY UNDER THE DIRECT SUPERVISION OF THE LICENSED PROFESSIONALS THAT HAVE AFFIXED THEIR SIGNATURE TO THIS PAGE.

THIS SHEET SERVES AS THE CERTIFICATION BY THE ABOVE LICENSED PROFESSIONALS OF ALL SHEETS IN THIS PLAN SET WHERE THEIR STAMPS AND SIGNATURES APPEAR.



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DATE	10/4/2022						
PLOTTED BY	hardoug				JOB NUMBER 22A021		
DESIGNED BY	J. MOE						
ENTERED BY	J. MOE						
CHECKED BY	A. WILLIAMS				CONTRACT NO.		LOCATION NO.
PROJ. ENGR.	S. BEIER						
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY			

P.E. STAMP BOX DATE

P.E. STAMP BOX DATE

Washington State Department of Transportation

SR 534
UNNAMED TRIBUTARY TO CARPENTER CR
FISH PASSAGE

VICINITY MAP

Plot 1

PLAN REF NO VM1

SHEET 3 OF 48 SHEETS

SUMMARY OF QUANTITIES

DOT_RGG900

11/10/2022

ITEM NO	TOTAL QUANTITY	SUB-TOTAL * SECTION I-07.2(1) OF STANDARD SPECS	SUB-TOTAL ** SECTION I-07.2(2) OF STANDARD SPECS	STD. ITEM NO.	UNIT	ITEM	GROUP 1 SR 534 MP 0.490 TO MP 0.690	GROUP 2 THIRD PARTY DAMAGES
						PREPARATION		
1	LUMP SUM		LUMP SUM	0001	L.S.	MOBILIZATION	L.S.	
2	0.63		0.63	0025	ACRE	CLEARING AND GRUBBING	0.63	
3	LUMP SUM		LUMP SUM	0050	L.S.	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	L.S.	
4	25.00		25.00	0170	L.F.	REMOVING GUARDRAIL	25.00	
5	1.00		1.00	0182	EACH	REMOVING GUARDRAIL ANCHOR	1.00	
						GRADING		
6	LUMP SUM		LUMP SUM		L.S.	EARTHWORK	L.S.	
						DRAINAGE		
7	100.00		100.00		TON	STREAMBED SAND	100.00	
8	1340.00		1340.00	1093	TON	STREAMBED SEDIMENT	1,340.00	
9	770.00		770.00	0904	TON	STREAMBED COBBLES 12 IN.	770.00	
10	50.00		50.00	0906	TON	STREAMBED BOULDER TYPE ONE	50.00	
11	10.00		10.00		TON	AQUITARD	10.00	
12	LUMP SUM		LUMP SUM		L.S.	STREAMBED TEST SECTION	L.S.	
13	6.00		6.00	1086	TON	QUARRY SPALLS	6.00	
14	1.00		1.00	1105	EACH	FLARED END SECTION 30 IN. DIAM.	1.00	
15	LUMP SUM		LUMP SUM	3075	L.S.	TEMPORARY STREAM DIVERSION	L.S.	
16	5000.00		5000.00	3076	DOL	FISH EXCLUSION	5,000.00	
17	4.00		4.00		EACH	WOODY MATERIAL - LOG WITHOUT ROOTWAD DBH 1.5 FT.	4.00	
18	19.00		19.00		EACH	WOODY MATERIAL - LOG WITH ROOTWAD DBH 2.0 FT.	19.00	
19	40.00		40.00		EACH	WOODY MATERIAL - LOG WITH ROOTWAD DBH 1.5 FT.	40.00	
20	10.00		10.00		C.Y.	SLASH	10.00	
21	5000.00		5000.00		DOL	ADDITIONAL STREAMBED GRADING	5,000.00	
						STRUCTURE		
22	LUMP SUM		LUMP SUM	4013	L.S.	SHORING OR EXTRA EXCAVATION CL. A FOR CDBS NO. 1	L.S.	
23	-1.00		-1.00	4219	DOL	DEFICIENT STRENGTH CONC. PRICE ADJUSTMENT	-1.00	
24	LUMP SUM		LUMP SUM	4335	L.S.	CONTRACTOR DESIGNED BURIED STRUCTURE NO. 1	L.S.	
25	55.00		55.00	4455	S.Y.	WATERPROOF MEMBRANE BR. NO. CDBS NO.1	55.00	
						SURFACING		
26	107.00		107.00	5100	TON	CRUSHED SURFACING BASE COURSE	107.00	
						HOT MIX ASPHALT		
27	140.00		140.00	5711	S.Y.	PLANING BITUMINOUS PAVEMENT	140.00	
28	194.00		194.00	5767	TON	HMA CL. 1/2 IN. PG 58H-22	194.00	
29	1746.00		1746.00	5830	DOL	JOB MIX COMPLIANCE PRICE ADJUSTMENT	1,746.00	
30	2910.00		2910.00	5835	DOL	COMPACTION PRICE ADJUSTMENT	2,910.00	
31	965.00		965.00	5837	DOL	ASPHALT COST PRICE ADJUSTMENT	965.00	
						EROSION CONTROL AND ROADSIDE PLANTING		
32	3025.00		3025.00		L.F.	COMPOST SOCK FOR SOIL STABILIZATION	3,025.00	
33	63.00		63.00		L.F.	PLANTED COMPOST SOCK	63.00	
34	LUMP SUM		LUMP SUM	6488	L.S.	EROSION CONTROL AND WATER POLLUTION PREVENTION	L.S.	
35	1462.00		1462.00	6431	S.Y.	SEEDING, FERTILIZING AND MULCHING	1,462.00	

GROUP LEGEND

GROUP NUMBER	SR	CONTROL SECTION	TAX SCHEDULE	FUND PARTICIPANTS
1	534	293500	**	STATE
2	534	293500	**	STATE

DATE	REVISION	BY
11/08/22	AD1 - REVISE ITEM NO. 21 AND ADD ITEM NO. 75-78	DH

REGION	STATE	FEDERAL AID PROJECT. NO.
10	WA	

JOB NUMBER 22A021/3

CONTRACT NO 009896

Washington State Department of Transportation

SR 534
UNNAMED TRIBUTARY TO CARPENTER CR
FISH PASSAGE

SUMMARY OF QUANTITIES

SQ1

SHEET 4 OF 48 SHEETS

SUMMARY OF QUANTITIES

DOT_RGG900

11/10/2022

ITEM NO	TOTAL QUANTITY	SUB-TOTAL * SECTION I-07.2(1) OF STANDARD SPECS	SUB-TOTAL ** SECTION I-07.2(2) OF STANDARD SPECS	STD. ITEM NO.	UNIT	ITEM	GROUP 1 SR 534 MP 0.490 TO MP 0.690	GROUP 2 THIRD PARTY DAMAGES
36	35.00		35.00	6550	EACH	PLANT SELECTION SMALL FRUITED BULRUSH (3-4 IN. PLUG)	35.00	
37	35.00		35.00	6550	EACH	PLANT SELECTION SLOUGH SEDGE (3-4 IN. PLUG)	35.00	
38	35.00		35.00	6550	EACH	PLANT SELECTION SALMONBERRY (NO. 1 CONT.)	35.00	
39	35.00		35.00	6550	EACH	PLANT SELECTION PACIFIC NINEBARK (NO. 1 CONT.)	35.00	
40	35.00		35.00	6550	EACH	PLANT SELECTION DOUGLAS SPIREA (NO. 1 CONT.)	35.00	
41	868.00		868.00	6558	L.F.	BRUSH LAYER	868.00	
42	632.00		632.00	6553	L.F.	FASCINES	632.00	
43	1462.00		1462.00	6483	S.Y.	FINE COMPOST	1,462.00	
44	274.00		274.00	6530	S.Y.	SOIL AMENDMENT	274.00	
45	268.00		268.00	6580	S.Y.	BARK OR WOOD CHIP MULCH	268.00	
46	6.00		6.00	6578	EACH	BARK OR WOOD CHIP MULCH RINGS	6.00	
47	140.00		140.00	6630	L.F.	HIGH VISIBILITY FENCE	140.00	
48	910.00		910.00	6635	L.F.	HIGH VISIBILITY SILT FENCE	910.00	
49	LUMP SUM		LUMP SUM	6404	L.S.	ENVIRONMENTAL COMPLIANCE LEAD	L.S.	
50	268.00		268.00		S.Y.	SOIL DECOMPACTION	268.00	
51	158.00		158.00		L.F.	TRENCH PLANTINGS	158.00	
52	10000.00		10000.00		DOL	FORCE ACCOUNT SELECTIVE CLEARING AND PRUNING	10,000.00	
						TRAFFIC		
53	25.00		25.00	6712	L.F.	BEAM GUARDRAIL TYPE 31 - 9 FT. LONG POST	25.00	
54	75.00		75.00	6757	L.F.	BEAM GUARDRAIL TYPE 31	75.00	
55	4.00		4.00	6760	EACH	BEAM GUARDRAIL TRANSITION SECTION TYPE 24	4.00	
56	3.00		3.00	6719	EACH	BEAM GUARDRAIL TYPE 31 NON-FLARED TERMINAL	3.00	
57	430.00		430.00	6806	L.F.	PAINT LINE	430.00	
58	2.00		2.00	6881	EACH	PLASTIC DRAINAGE MARKING	2.00	
59	0.03		0.03	6884	HUND	RAISED PAVEMENT MARKER TYPE 2	0.03	
60	150.00		150.00	6895	L.F.	TEMPORARY PAVEMENT MARKING-SHORT DURATION	150.00	
61	LUMP SUM		LUMP SUM	6971	L.S.	PROJECT TEMPORARY TRAFFIC CONTROL	L.S.	
62	72.00		72.00	6982	S.F.	CONSTRUCTION SIGNS CLASS A	72.00	
						OTHER ITEMS		
63	LUMP SUM		LUMP SUM	7003	L.S.	TYPE B PROGRESS SCHEDULE	L.S.	
64	1.00		1.00	7029	EACH	PLUGGING EXISTING PIPE	1.00	
65	LUMP SUM		LUMP SUM	7037	L.S.	STRUCTURE SURVEYING	L.S.	
66	LUMP SUM		LUMP SUM	7038	L.S.	ROADWAY SURVEYING	L.S.	
67	1000.00		1000.00	7480	DOL	ROADSIDE CLEANUP	1,000.00	
68	5.00		5.00	7725	DOL	REIMBURSEMENT FOR THIRD PARTY DAMAGE		5.00
69	-1.00		-1.00	7728	DOL	MINOR CHANGE	-1.00	
70	-1.00		-1.00	7732	DOL	AGGREGATE COMPLIANCE PRICE ADJUSTMENT	-1.00	
71	LUMP SUM		LUMP SUM	7736	L.S.	SPCC PLAN	L.S.	
72	150.00		150.00		S.Y.	GEOMEMBRANE LINER	150.00	
73	LUMP SUM		LUMP SUM		L.S.	DEWATERING PLAN	L.S.	
74	LUMP SUM		LUMP SUM		L.S.	TEMPORARY DEWATERING SYSTEM	L.S.	
75	LUMP SUM		LUMP SUM	6904	L.S.	ILLUMINATION SYSTEM	L.S.	
76	25000.00		25000.00	7572	DOL	WORK ZONE SAFETY CONTINGENCY	25,000.00	
77	905.00		905.00	7552	S.Y.	CONSTRUCTION GEOTEXTILE FOR SOIL STABILIZATION	905.00	
78	425.00		425.00		S.Y.	GEOSYNTHETIC BASE REINFORCEMENT	425.00	

GROUP LEGEND

GROUP NUMBER	SR	CONTROL SECTION	TAX SCHEDULE	FUND PARTICIPANTS
1	534	293500	**	STATE
2	534	293500	**	STATE

DATE	REVISION	BY
11/08/22	AD1 - REVISE ITEM NO. 21 AND ADD ITEM NO. 75-78	DH

REGION	STATE	FEDERAL AID PROJECT. NO.
10	WA	

JOB NUMBER 22A021/3

CONTRACT NO 009896

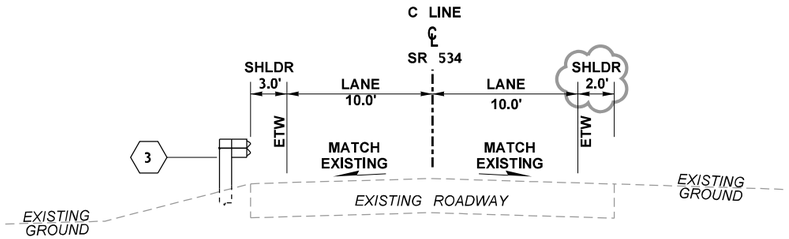
Washington State Department of Transportation

SR 534
UNNAMED TRIBUTARY TO CARPENTER CR
FISH PASSAGE

SUMMARY OF QUANTITIES

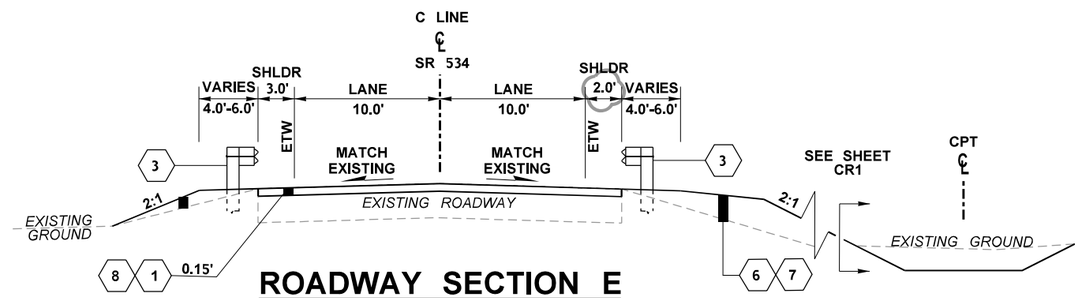
SQ2

SHEET 5 OF 48 SHEETS



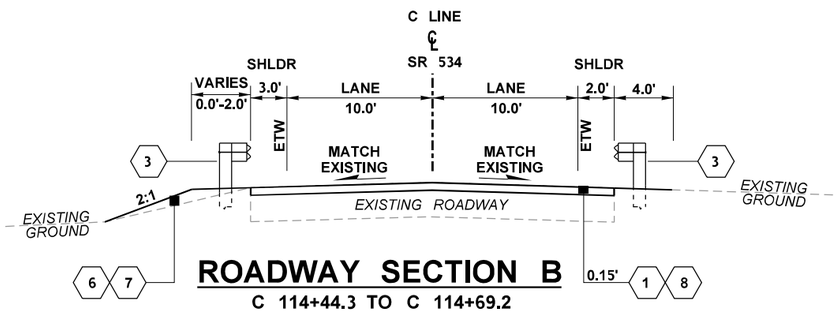
ROADWAY SECTION A

C 114+33.4 TO C 114+44.3
NOT TO SCALE



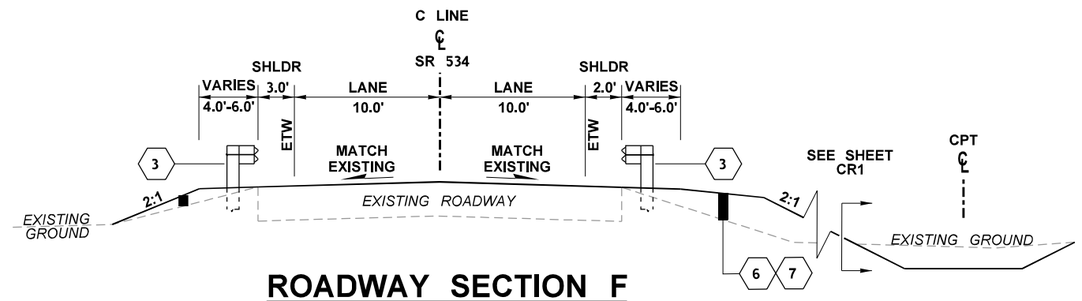
ROADWAY SECTION E

C 115+64.6 TO C 115+87.0
NOT TO SCALE



ROADWAY SECTION B

C 114+44.3 TO C 114+69.2
NOT TO SCALE



ROADWAY SECTION F

C 115+87.0 TO C 116+09.0
NOT TO SCALE

ROADWAY SECTION C & D

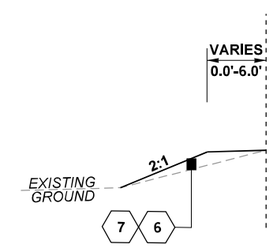
SEE SHEET RS2 - RS3

GENERAL NOTES

1. ALL SURFACING AND PAVING DEPTHS ARE COMPACTED DEPTHS. NO DEPTHS SHALL EXCEED STANDARD SPECIFICATION LIMITS.
2. ALL DIMENSIONS IN FEET UNLESS OTHERWISE NOTED.
3. MATCH EXISTING ROAD GRADES.
4. CONTRACTOR DESIGNED BURIED STRUCTURE NO. 1 IS SKEWED. ROADWAY SECTION D, STATIONING BASED ON CULVERT LOCATION AT C LINE STATION C 115+14.07.
5. SEE SHEET PV1 FOR SHOULDER AND GUARDRAIL PLACEMENT AND EXTENTS.
6. SEE SHEET BC1 - BC4 FOR WALL AND BURIED STRUCTURE DETAILS.
7. INCLUDED IN THE LUMP SUM BID ITEM "EARTHWORK". SEE SPECIAL PROVISIONS.
8. PRECAST BRIDGE APPROACH SLAB SHALL BE CONTRACTOR DESIGNED IN ACCORDANCE WITH STANDARD PLAN A-40.50, BUT CAN BE REDUCED TO A MINIMUM 20' LENGTH ON THE SHORTEST END AND SHALL BE INSTALLED IN PRECAST SECTIONS. INCLUDED IN THE LUMP SUM BID ITEM "CONTRACTOR DESIGNED BURIED STRUCTURE NO. 1".
9. ETW = EDGE OF TRAVELED WAY.

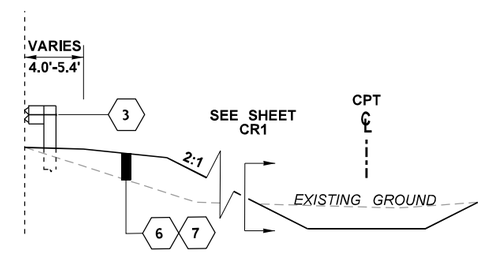
MATERIAL LEGEND

1	HMA CL. 1/2 IN. PG 58H-22
2	CRUSHED SURFACING BASE COURSE
3	BEAM GUARDRAIL TYPE 31
4	ROADWAY EXCAVATION INCL. HAUL (SEE NOTE 7)
5	STRUCTURE EXCAVATION CLASS A INCL. HAUL (SEE NOTE 7)
6	EMBANKMENT COMPACTION (SEE NOTE 7)
7	GRAVEL BORROW INCL. HAUL (SEE NOTE 7)
8	PLANING BITUMINOUS PAVEMENT
9	PRECAST BRIDGE APPROACH SLAB (CONTRACTOR DESIGNED)
10	LIGHTWEIGHT VOLCANIC BACKFILL INCL. HAUL (SEE NOTE 7)



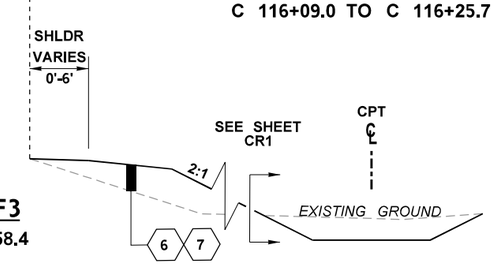
ALT SHOULDER F1

C 116+09.0 TO C 116+57.0



ALT SHOULDER F2

C 116+09.0 TO C 116+25.7



ALT SHOULDER F3

C 116+25.7 TO C 116+58.4

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TIME	4:19:19 PM				10	WASH	
DATE	11/8/2022				JOB NUMBER		
PLOTTED BY	hardoug				22A021		
DESIGNED BY	D. HARRIS				CONTRACT NO.		LOCATION NO.
ENTERED BY	R. MCEWAN						
CHECKED BY	A. WILLIAMS						
PROJ. ENGR.	S. BEIER	AD1 - REVISE MATERIAL REFERENCE	11/08/2022	DH			
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY			

SPENCER T. BEIER — STATE OF WASHINGTON — 36005 — REGISTERED PROFESSIONAL ENGINEER
SEE CT1
DATE
P.E. STAMP BOX

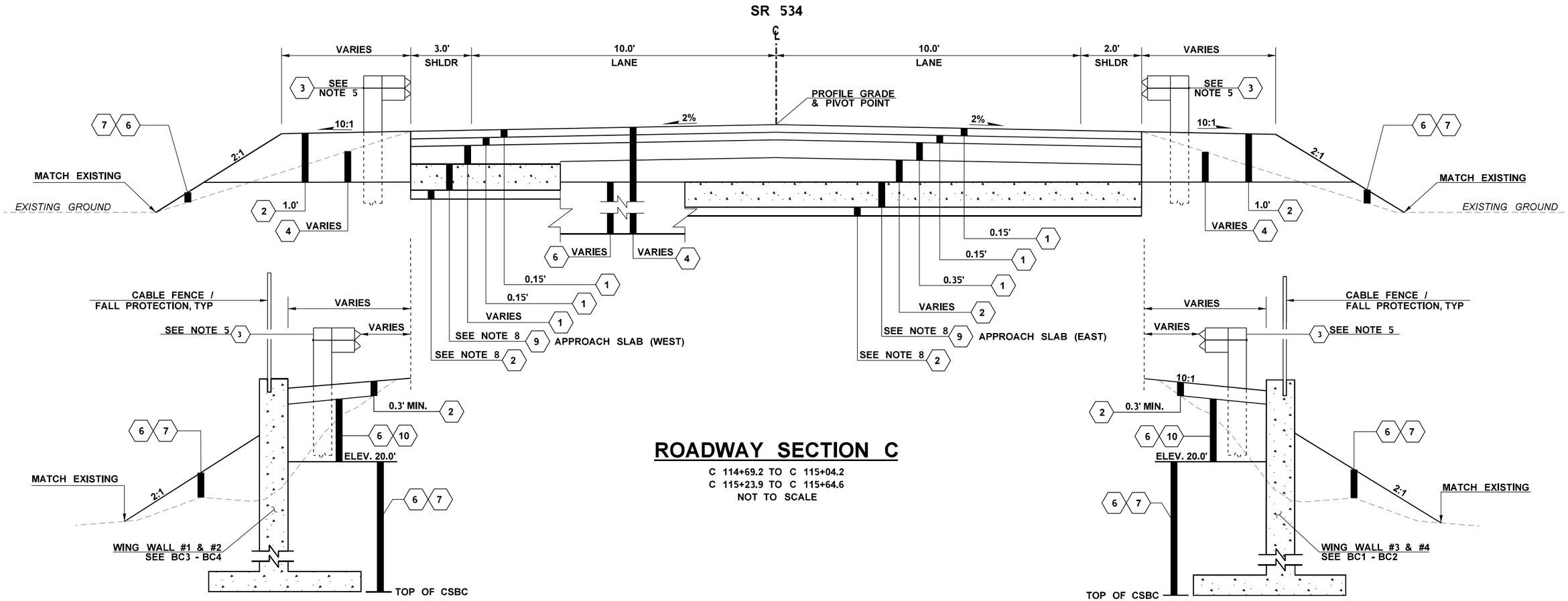
DATE
P.E. STAMP BOX

Washington State Department of Transportation

SR 534
UNNAMED TRIBUTARY TO CARPENTER CR
FISH PASSAGE

ROADWAY SECTIONS

Plot 1
PLAN REF NO
RS1
SHEET 6 OF 48 SHEETS



ROADWAY SECTION C

C 114+69.2 TO C 115+04.2
C 115+23.9 TO C 115+64.6
NOT TO SCALE

ALT SHOULDER C1

C 114+69.2 TO C 115+20.9

ALT SHOULDER C2

C 115+12.8 TO C 115+64.6

GENERAL NOTES

1. ALL SURFACING AND PAVING DEPTHS ARE COMPACTED DEPTHS. NO DEPTHS SHALL EXCEED STANDARD SPECIFICATION LIMITS.
2. ALL DIMENSIONS IN FEET UNLESS OTHERWISE NOTED.
3. MATCH EXISTING ROAD GRADES.
4. CONTRACTOR DESIGNED BURIED STRUCTURE NO. 1 IS SKEWED. ROADWAY SECTION D, STATIONING BASED ON CULVERT LOCATION AT C LINE STATION C 115+14.07.
5. SEE SHEET PV1 FOR SHOULDER, BARRIER, AND GUARDRAIL PLACEMENT AND EXTENTS.
6. SEE SHEET BC1 - BC4 FOR WALL AND BURIED STRUCTURE DETAILS.
7. INCLUDED IN THE LUMP SUM BID ITEM "EARTHWORK". SEE SPECIAL PROVISIONS.
8. PRECAST BRIDGE APPROACH SLAB SHALL BE CONTRACTOR DESIGNED IN ACCORDANCE WITH STANDARD PLAN A-40.50, BUT CAN BE REDUCED TO A MINIMUM 20' LENGTH ON THE SHORTEST END AND SHALL BE INSTALLED IN PRECAST SECTIONS. INCLUDED IN THE LUMP SUM BID ITEM "CONTRACTOR DESIGNED BURIED STRUCTURE NO. 1".
9. ALL TRAFFIC BARRIERS, RAILINGS AND/OR FALL PROTECTION, HEADWALLS, AND WINGWALLS SHALL BE INCLUDED IN LUMP SUM PRICE OF THE CONTRACTOR DESIGNED BURIED STRUCTURE NO. 1.
10. DESIGN OF THE APPROACH SLABS SHALL BE PROVIDED BY THE CONTACTOR IN ACCORDANCE WITH THE STANDARD PLAN A-40.50.

MATERIAL LEGEND

1	HMA CL. 1/2 IN. PG 58H-22	6	EMBANKMENT COMPACTION (SEE NOTE 7)
2	CRUSHED SURFACING BASE COURSE	7	GRAVEL BORROW INCL. HAUL (SEE NOTE 7)
3	BEAM GUARDRAIL TYPE 31	8	PLANING BITUMINOUS PAVEMENT
4	ROADWAY EXCAVATION INCL. HAUL (SEE NOTE 7)	9	PRECAST BRIDGE APPROACH SLAB (CONTRACTOR DESIGNED)
5	STRUCTURE EXCAVATION CLASS A INCL. HAUL (SEE NOTE 7)	10	LIGHTWEIGHT VOLCANIC BACKFILL INCL. HAUL (SEE NOTE 7) (PLACED ABOVE ELEV. 20.0', SEE GEOTECHNICAL REPORT)

FILE NAME	T:\412334\XL6097 SR534 Trib to Carpenter Ck FP\CAE\CAD\ContractPlans\Addendum\Addendum No. 1\SR534_050_PS_RS.dgn			
TIME	4:19:24 PM			
DATE	11/8/2022			
PLOTTED BY	hardoug			
DESIGNED BY	D. HARRIS			
ENTERED BY	R. MCEWAN			
CHECKED BY	A. WILLIAMS			
PROJ. ENGR.	S. BEIER	AD1 - REPLACEMENT SHEET	11/08/2022	DH
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER 22A021		
CONTRACT NO.		LOCATION NO.

SPENCER T. BEIER — STATE OF WASHINGTON — 36000 — REGISTERED PROFESSIONAL ENGINEER

SEE CT1
DATE
P.E. STAMP BOX

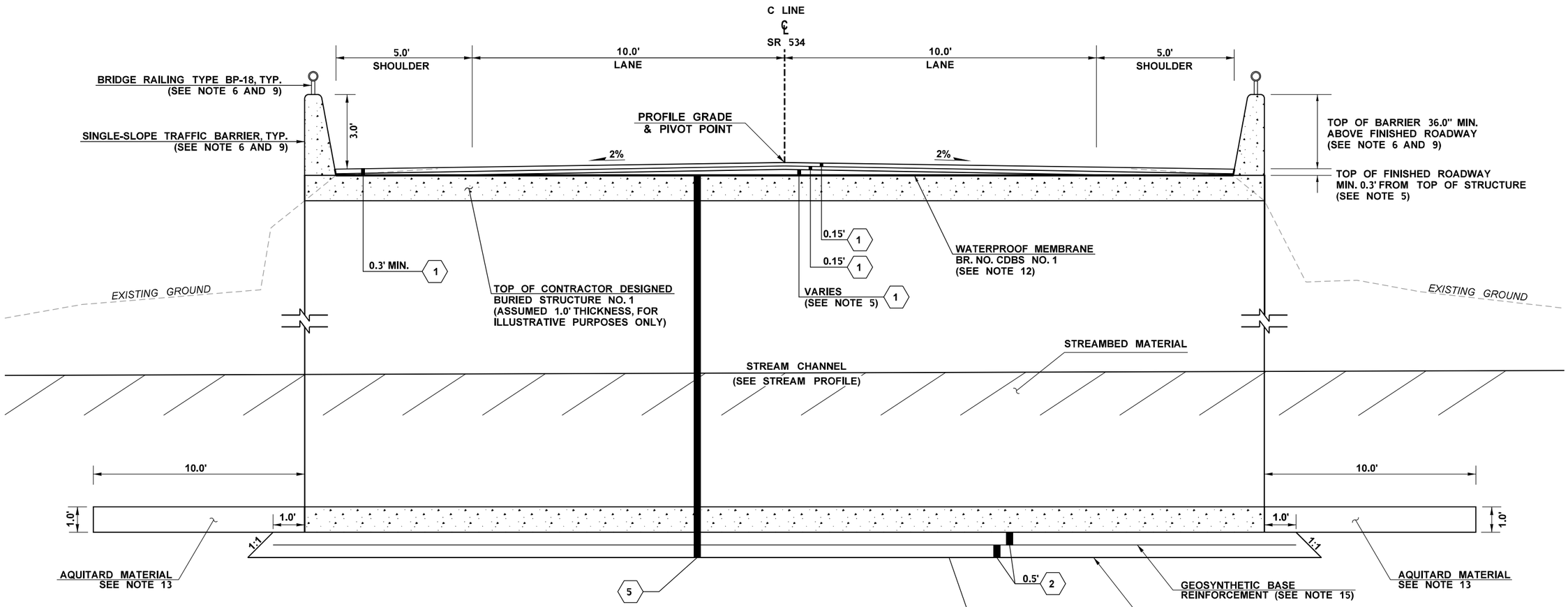
DATE
P.E. STAMP BOX

Washington State Department of Transportation

SR 534
UNNAMED TRIBUTARY TO CARPENTER CR
FISH PASSAGE

ROADWAY SECTIONS

Plot 2
PLAN REF NO RS2
SHEET 7 OF 48 SHEETS



ROADWAY SECTION D

C 115+04.2 TO C 115+23.9
NOT TO SCALE

MATERIAL LEGEND

1	HMA CL. 1/2 IN. PG 58H-22
2	CRUSHED SURFACING BASE COURSE
5	STRUCTURE EXCAVATION CLASS A INCL. HAUL (SEE NOTE 7)
7	GRAVEL BORROW INCL. HAUL (SEE NOTE 7)

GENERAL NOTES

1. ALL SURFACING AND PAVING DEPTHS ARE COMPACTED DEPTHS. NO DEPTHS SHALL EXCEED STANDARD SPECIFICATION LIMITS.
2. ALL DIMENSIONS IN FEET UNLESS OTHERWISE NOTED.
3. MATCH EXISTING ROAD GRADES.
4. CONTRACTOR DESIGNED BURIED STRUCTURE NO. 1 IS SKEWED. ROADWAY SECTION D, STATIONING BASED ON CULVERT LOCATION AT C LINE STATION C 115+14.07.
5. PAVEMENT THICKNESS ABOVE STRUCTURE SHALL BE A MINIMUM 0.3' OF HMA WITH ADDITIONAL LIFTS AS REQUIRED TO MATCH ROADWAY PROFILE.
6. SEE SHEET BC1 - BC4 FOR WALL AND BURIED STRUCTURE DETAILS.
7. INCLUDED IN THE LUMP SUM BID ITEM "EARTHWORK". SEE SPECIAL PROVISIONS.
8. PRECAST BRIDGE APPROACH SLAB SHALL BE CONTRACTOR DESIGNED IN ACCORDANCE WITH STANDARD PLAN A-40.50, BUT CAN BE REDUCED TO A MINIMUM 20' LENGTH ON THE SHORTEST END AND SHALL BE INSTALLED IN PRECAST SECTIONS. INCLUDED IN THE LUMP SUM BID ITEM "CONTRACTOR DESIGNED BURIED STRUCTURE NO. 1".
9. ALL TRAFFIC BARRIERS, RAILINGS AND/OR FALL PROTECTION, HEADWALLS, AND WINGWALLS SHALL BE INCLUDED IN LUMP SUM PRICE OF THE CONTRACTOR DESIGNED BURIED STRUCTURE NO. 1.
10. DESIGN OF THE APPROACH SLABS SHALL BE PROVIDED BY THE CONTACTOR IN ACCORDANCE WITH THE STANDARD PLAN A-40.50.
11. TRAFFIC BARRIER SHALL BE MIN. 3.0' IN HEIGHT FROM THE ADJACENT FINISHED ROADWAY SURFACE AND SHALL INCLUDE THE REQUIRED FALL PROTECTION MEASURES. DESIGN OF THE TRAFFIC BARRIER SHALL BE PROVIDED BY THE CONTRACTOR IN ACCORDANCE WITH STANDARD SPECIFICATION 6-20.3(1)G, BURIED STRUCTURES.
12. WATERPROOF MEMBRANE BR. NO. CDBS NO. 1, OVER THE EXTENT OF STRUCTURE BETWEEN ASPHALT SURFACING AND CONCRETE SURFACE TO PROTECT STRUCTURAL INTEGRITY OF THE CONCRETE AND REINFORCEMENT, PER STANDARD SPECIFICATIONS.
13. SEE SPECIAL PROVISION "WATER CROSSINGS". FINAL LOCATION AND DIMENSIONS OF AQUITARD SHALL BE DIRECTED BY THE ENGINEER.
14. EXCAVATION AND CSBC IS INCLUDED IN THE LUMP SUM BID ITEM "EARTHWORK". FOR REQUIREMENTS AND RECOMMENDATION, SEE GEOTECHNICAL REPORT.
15. GEOSYNTHETIC BASE REINFORCEMENT, SEE SPECIAL PROVISIONS.

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DATE	11/8/2022					FED.AID PROJ.NO.
PLOTTED BY	hardoug					
DESIGNED BY	D. HARRIS				JOB NUMBER 22A021	
ENTERED BY	R. MCEWAN					
CHECKED BY	A. WILLIAMS				CONTRACT NO.	LOCATION NO.
PROJ. ENGR.	S. BEIER	AD1 - REPLACEMENT SHEET	11/08/2022	DH		
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY		

SPENCER T. BEIER — STATE OF WASHINGTON — 36005 — REGISTERED PROFESSIONAL ENGINEER

SEE CT1
DATE
P.E. STAMP BOX

DATE
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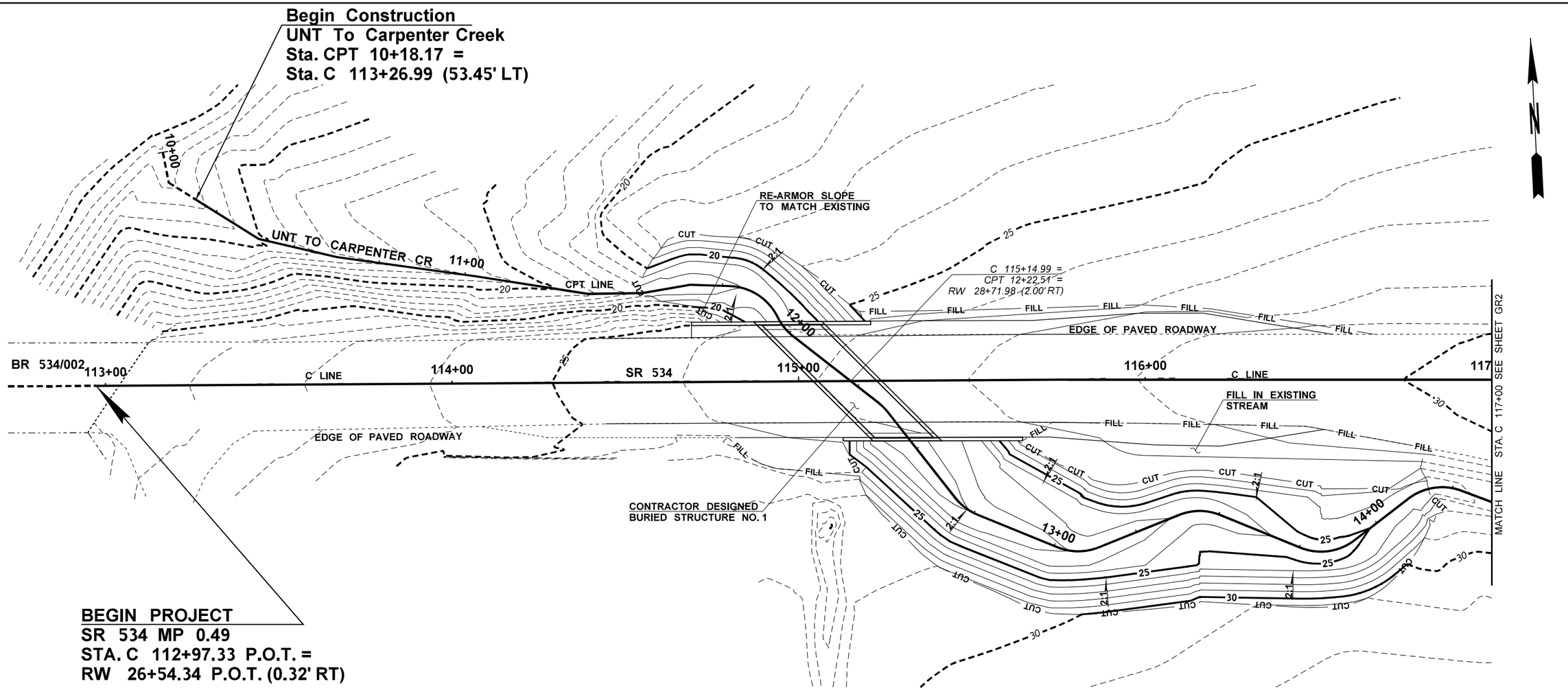
Washington State
Department of Transportation

SR 534
UNNAMED TRIBUTARY TO CARPENTER CR
FISH PASSAGE

ROADWAY SECTIONS

Plot 3
PLAN REF NO RS3
SHEET 8 OF 48 SHEETS



DATUM

(NAVD) 88

LEGEND

13+00	NEW STREAM / ROADWAY CENTERLINE
13+00	EXISTING STREAM CENTERLINE
53	EXISTING GRADE CONTOUR
53	NEW GRADE CONTOUR
	EXISTING CULVERT
	CONTRACTOR DESIGNED BURIED STRUCTURE NO. 1

NOTES:

1. SEE ALIGNMENT / RIGHT-OF-WAY PLAN, SHEET AL1 FOR STREAM ALIGNMENT DATA AND CONTROL POINT LOCATIONS.

0 15 30
SCALE IN FEET

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DATE	10/4/2022						
PLOTTED BY	hardoug				JOB NUMBER 22A021		
DESIGNED BY	D. HARRIS						
ENTERED BY	J. MOE						
CHECKED BY	A. WILLIAMS				CONTRACT NO.		LOCATION NO.
PROJ. ENGR.	S. BEIER						
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY			

SPENCER T. BEIER STATE OF WASHINGTON 16097 REGISTERED PROFESSIONAL ENGINEER

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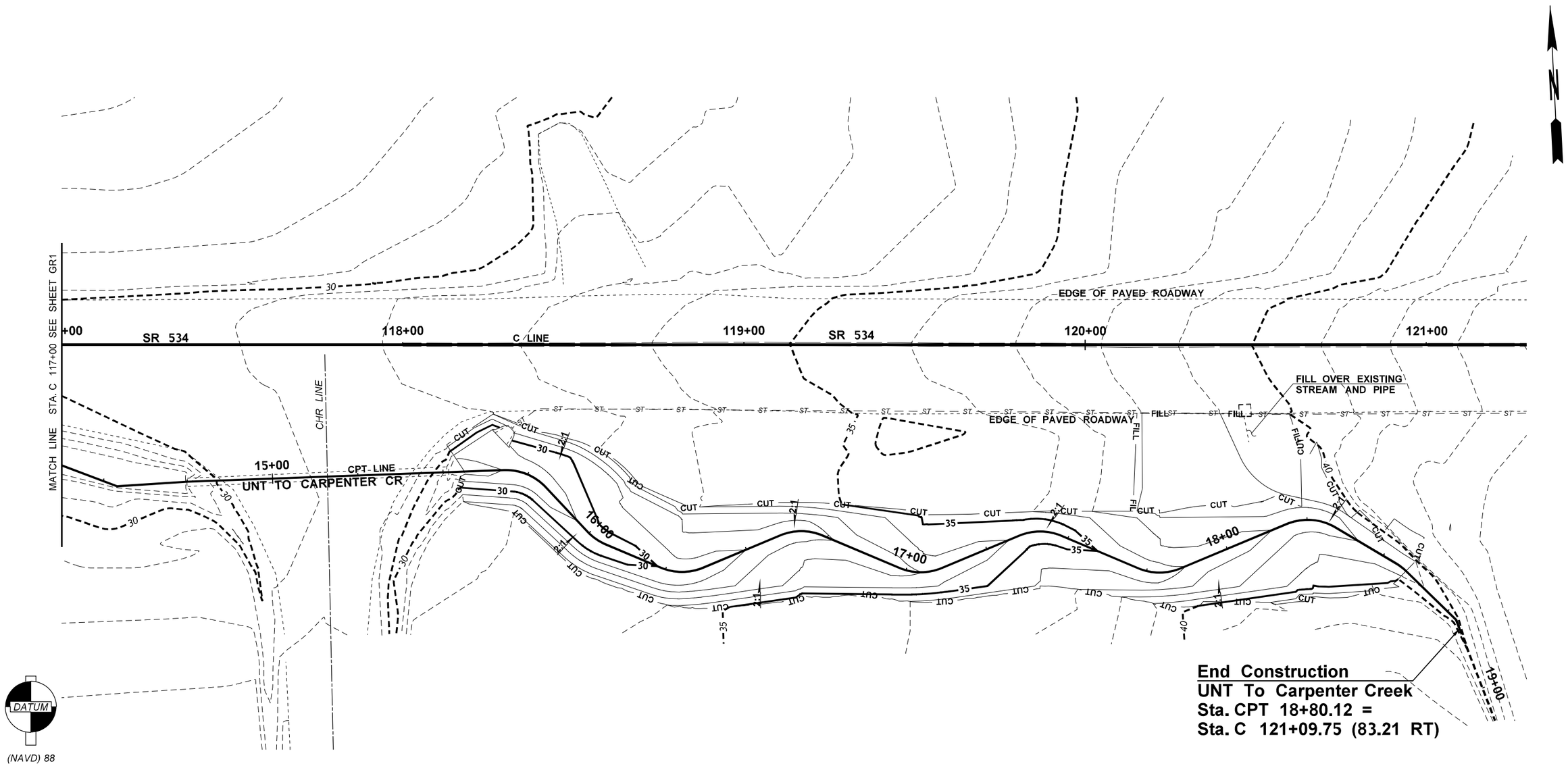
UNNAMED TRIBUTARY TO CARPENTER CR
FISH PASSAGE

GRADING PLAN

Plot 1
PLAN REF NO
GR1
SHEET 9 OF 48 SHEETS



LEGEND

13+00	NEW STREAM / ROADWAY CENTERLINE
13+00	EXISTING STREAM CENTERLINE
53	EXISTING GRADE CONTOUR
53	NEW GRADE CONTOUR
	EXISTING CULVERT
	CONTRACTOR DESIGNED BURIED STRUCTURE NO. 1

NOTES:

1. SEE ALIGNMENT / RIGHT-OF-WAY PLAN, SHEET AL1 FOR STREAM ALIGNMENT DATA AND CONTROL POINT LOCATIONS.

0 15 30
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PLOTTED BY	hardoug				JOB NUMBER 22A021		
DESIGNED BY	D. HARRIS						
ENTERED BY	J. MOE						
CHECKED BY	A. WILLIAMS				CONTRACT NO.		LOCATION NO.
PROJ. ENGR.	S. BEIER						
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY			

SPENCER T. BEIER STATE OF WASHINGTON 36005 REGISTERED PROFESSIONAL ENGINEER

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Washington State Department of Transportation

SR 534
UNNAMED TRIBUTARY TO CARPENTER CR
FISH PASSAGE

GRADING PLAN

Plot 2
PLAN REF NO GR2
SHEET 10 OF 48 SHEETS

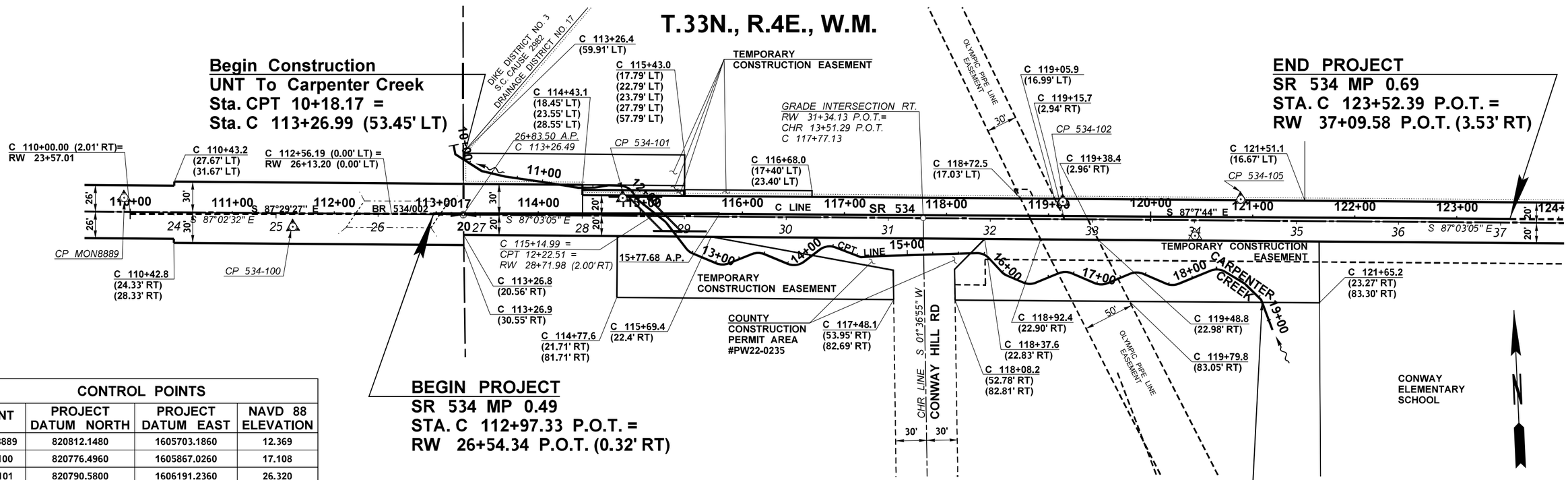
CARPENTER CREEK ALIGNMENT

POINT TYPE	STATION	DIRECTION	LENGTH (FT)	POINT TYPE	STATION	DIRECTION	LENGTH (FT)	POINT TYPE	STATION	DIRECTION	LENGTH (FT)	POINT TYPE	STATION	DIRECTION	LENGTH (FT)
POB	CPT 10+00.00	S 8°09'39.58" E	8.92	P.T.	CPT 12+36.61	S 35°19'53.59" E	31.33	AP	CPT 14+74.76	S 89°14'34.80" E	76.52	P.C.	CPT 17+35.22	N 70°08'57.93" E	
AP	CPT 10+08.92	S 55°07'53.11" E	30.61	P.C.	CPT 12+67.94	S 35°19'53.59" E		AP	CPT 15+51.28	S 89°14'34.80" E	16.61	P.T.	CPT 17+47.95	S 64°15'07.27" E	24.52
AP	CPT 10+39.53	S 74°03'01.91" E	23.18	P.T.	CPT 12+76.22	S 64°58'56.76" E	24.79	P.C.	CPT 15+67.89	S 89°14'34.80" E		P.C.	CPT 17+72.47	S 64°15'07.27" E	
AP	CPT 10+62.71	S 79°15'01.51" E	40.61	P.T.	CPT 13+01.01	S 64°58'56.76" E		P.T.	CPT 15+81.56	S 40°17'13.37" E	17.81	P.T.	CPT 17+85.20	N 70°08'57.93" E	33.64
AP	CPT 11+03.32	S 78°13'10.51" E	32.58	P.T.	CPT 13+13.34	N 70°52'47.41" E	24.79	P.C.	CPT 15+99.36	S 40°17'13.37" E		P.C.	CPT 18+18.84	N 70°08'57.93" E	
AP	CPT 11+35.90	S 87°58'44.32" E	15.68	P.C.	CPT 13+38.13	N 70°52'47.41" E		P.T.	CPT 16+06.05	S 64°15'07.27" E	17.42	P.T.	CPT 18+33.76	S 56°24'57.66" E	20.55
AP	CPT 11+51.58	N 83°03'28.82" E	14.06	P.T.	CPT 13+50.46	S 64°58'56.76" E	24.79	P.C.	CPT 16+23.47	S 64°15'07.27" E		P.C.	CPT 18+54.32	S 56°24'57.66" E	
AP	CPT 11+65.64	S 85°12'48.69" E	11.38	P.C.	CPT 13+75.25	S 64°58'56.76" E		P.T.	CPT 16+36.21	N 70°08'57.93" E	24.52	P.T.	CPT 18+58.10	S 42°52'56.59" E	20.49
P.C.	CPT 11+77.02	S 85°12'48.69" E		P.T.	CPT 13+91.95	N 55°13'04.44" E	19.49	P.C.	CPT 16+60.72	N 70°08'57.93" E		AP	CPT 18+78.59	S 18°14'25.85" E	31.68
P.C.	CPT 11+94.31	S 23°19'25.00" E		P.C.	CPT 14+11.44	N 55°13'04.44" E		P.T.	CPT 16+73.46	S 64°15'07.27" E	24.52	POE	CPT 19+10.27	S 18°14'25.85" E	
P.T.	CPT 12+01.52	S 49°10'00.29" E	31.23	P.T.	CPT 14+27.72	S 66°30'18.53" E	26.66	P.C.	CPT 16+97.97	S 64°15'07.27" E					
P.C.	CPT 12+32.75	S 49°10'00.29" E		AP	CPT 14+54.37	N 89°12'36.33" E	20.38	P.T.	CPT 17+10.70	N 70°08'57.93" E	24.52				

POB = POINT OF BEGINNING POE = POINT OF END
AP = ANGLE POINT

CURVE DATA - CARPENTER CREEK ALIGNMENT

P.C. STATION	P.I. STATION	P.T. STATION	DELTA	RADIUS	LENGTH	TANGENT
CPT 11+77.02	CPT 11+86.62	-	61°53'23.69" RT	16.00	17.28	9.59
CPT 11+94.31	CPT 11+97.98	CPT 12+01.52	25°50'35.28" LT	16.00	7.22	3.67
CPT 12+32.75	CPT 12+34.69	CPT 12+36.61	13°50'06.70" RT	16.00	3.86	1.94
CPT 12+67.94	CPT 12+72.17	CPT 12+76.22	29°39'03.17" LT	16.00	8.28	4.24
CPT 13+01.01	CPT 13+07.50	CPT 13+13.34	44°08'15.83" LT	16.00	12.33	6.49
CPT 13+38.13	CPT 13+44.62	CPT 13+50.46	44°08'15.83" RT	16.00	12.33	6.49
CPT 13+75.25	CPT 13+84.45	CPT 13+91.95	59°47'58.80" LT	16.00	16.70	9.20
CPT 14+11.44	CPT 14+20.36	CPT 14+27.72	58°16'37.03" RT	16.00	16.27	8.92
CPT 15+67.89	CPT 15+75.17	CPT 15+81.56	48°57'21.43" RT	16.00	13.67	7.28
CPT 15+99.36	CPT 16+02.76	CPT 16+06.05	23°57'53.90" LT	16.00	6.69	3.40
CPT 16+23.47	CPT 16+30.20	CPT 16+36.21	45°35'54.81" LT	16.00	12.73	6.73
CPT 16+60.72	CPT 16+67.45	CPT 16+73.46	45°35'54.81" RT	16.00	12.73	6.73
CPT 16+97.97	CPT 17+04.70	CPT 17+10.70	45°35'54.81" LT	16.00	12.73	6.73
CPT 17+35.22	CPT 17+41.95	CPT 17+47.95	45°35'54.81" RT	16.00	12.73	6.73
CPT 17+72.47	CPT 17+79.19	CPT 17+85.20	45°35'54.81" LT	16.00	12.73	6.73
CPT 18+18.84	CPT 18+26.90	CPT 18+33.76	53°26'04.42" RT	16.00	14.92	8.05
CPT 18+54.32	CPT 18+56.22	CPT 18+58.10	13°32'01.06" RT	16.00	3.78	1.90



CONTROL POINTS

POINT	PROJECT DATUM NORTH	PROJECT DATUM EAST	NAVD 88 ELEVATION
MON8889	820812.1480	1605703.1860	12.369
534-100	820776.4960	1605867.0260	17.108
534-101	820790.5800	1606191.2360	26.320
534-102	820767.9800	1606622.0620	34.800
534-105	820762.6360	1606796.3150	40.776

LEGEND

- 11+00 — NEW CONSTRUCTION ALIGNMENT
- 25 — EXISTING RIGHT OF WAY ALIGNMENT
- COUNTY CENTERLINE
- WSDOT RIGHT OF WAY
- TEMPORARY EASEMENTS NEW
- COUNTY RIGHT OF WAY
- RIGHT OF WAY EASEMENT
- PRIMARY CONTROL POINT
- SECTION LINE
- QUARTER SECTION LINE
- 17 / 20 — QUARTER CORNER FOUND
- 1-25068 — PARCEL NUMBER

GENERAL NOTES:

1. PER RCW 58.09.130, ANY MONUMENT OR CORNER DISTURBED BY THE CONTRACTOR'S OPERATION SHALL BE REPLACED AT NO COST TO THE CONTRACTING AGENCY.
2. BEARING AND DISTANCES ARE BASED ON THE WASHINGTON STATE PLANE COORDINATE SYSTEM - NORTH ZONE, NAD 83/2011.
3. THE DISTANCES SHOWN ARE GROUND DISTANCES. TO OBTAIN THE GRID DISTANCES, MULTIPLY THE GROUND DISTANCE BY THE COMBINED FACTOR OF 0.999951559 AND SUBTRACT 100,000 METERS.

0 50 100
SCALE IN FEET

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TIME	5:05:32 PM
DATE	10/4/2022
PLOTTED BY	hardoug
DESIGNED BY	D. HARRIS
ENTERED BY	J. MOE
CHECKED BY	A. WILLIAMS
PROJ. ENGR.	S. BEIER
REGIONAL ADM.	B. NIELSEN

REVISION | DATE | BY

REGION NO. 10 | STATE WASH | FED.AID PROJ.NO.

JOB NUMBER 22A021

CONTRACT NO. | LOCATION NO.

SPENCER T. BEIER — STATE OF WASHINGTON — 46005 — REGISTERED PROFESSIONAL ENGINEER

SEE CT1 DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

Washington State Department of Transportation

SR 534
UNNAMED TRIBUTARY TO CARPENTER CR
FISH PASSAGE

ALIGNMENT / RIGHT OF WAY PLAN

Plot 1
PLAN REF NO AL1
SHEET 11 OF 48 SHEETS

LEGEND	
	RIGHT OF WAY
	TEMPORARY CONSTRUCTION EASEMENT
CG CG	CLEARING AND GRUBBING
HVF HVF	HIGH VISIBILITY FENCE
HVS HVS HV	HIGH VISIBILITY SILT FENCE
SCP	SELECTIVE CLEARING AND PRUNING
WB	WETLAND BOUNDARY
	EXISTING GATE
	EXISTING FENCE
	EXISTING GUARDRAIL
	EXISTING EDGE OF PAVEMENT
	EXISTING TREE
	EXISTING SIGN
	EXISTING GUIDE POST
MB	EXISTING MAILBOX

HIGH VISIBILITY SILT FENCE

STATION	LENGTH (LF)
C 114+05 (36' LT) BEGIN	
C 114+26 (59' LT)	30
C 115+43 (58' LT)	118
C 115+43 (24' LT)	34
C 116+68 (23' LT) END	125

HIGH VISIBILITY SILT FENCE

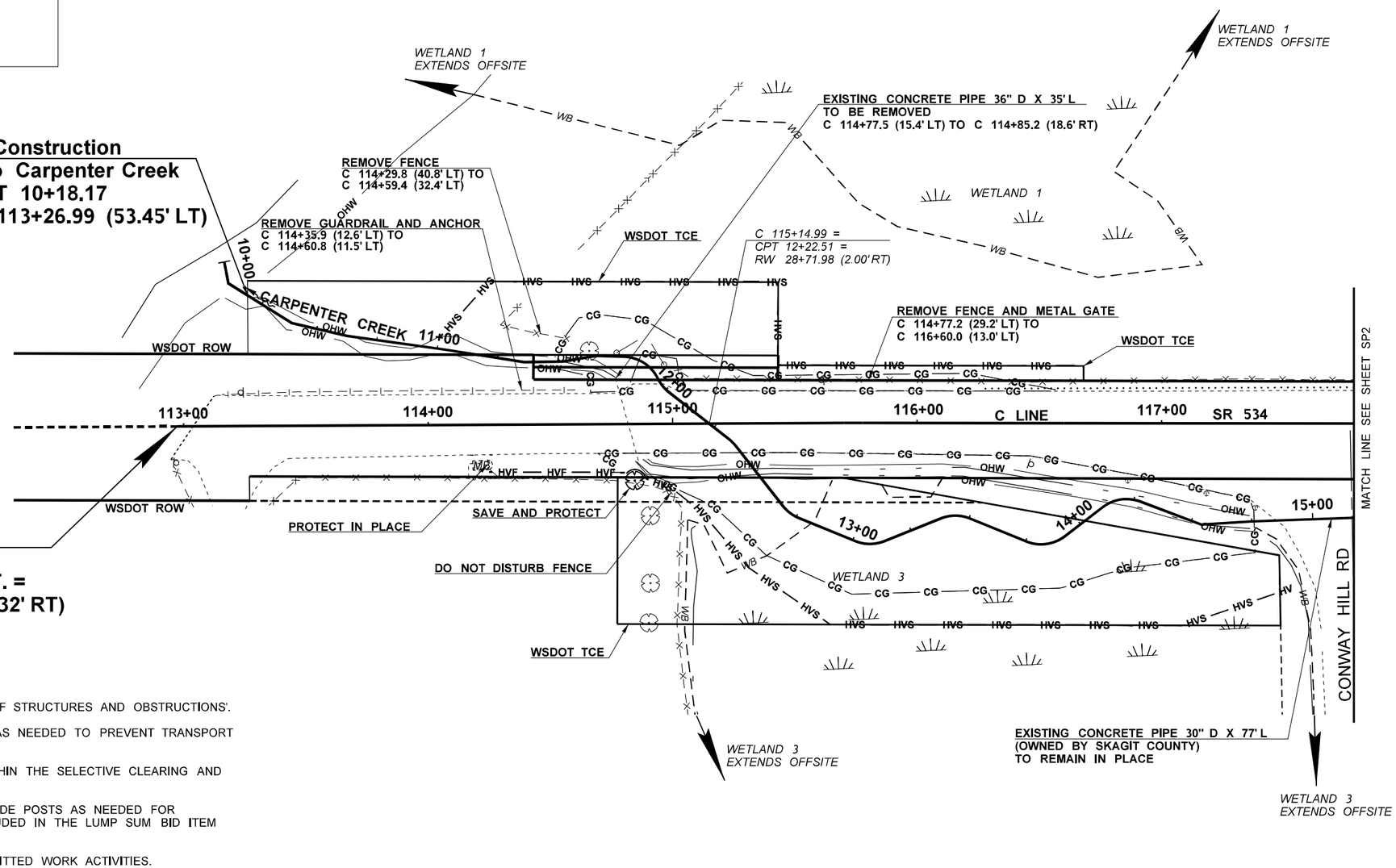
STATION	LENGTH (LF)
C 114+89 (22' RT) BEGIN	
C 115+00 (26' RT)	12
C 115+12 (35' RT)	15
C 115+31 (59' RT)	30
C 115+64 (82' RT)	41
C 117+08 (83' RT)	144
C 117+54 (67' RT) END	47

HIGH VISIBILITY FENCE

STATION	LENGTH (LF)
C 114+25 (20' RT) BEGIN	
C 114+80 (21' RT)	55

CLEARING AND GRUBBING

LOCATION	AREA (AC.)
NORTH OF SR 534	0.05
SOUTH OF SR 534 / WEST OF CONWAY HILL ROAD	0.24



NOTES:

1. SEE SPECIAL PROVISION 'REMOVAL OF STRUCTURES AND OBSTRUCTIONS'.
2. STREET CLEANING SHALL BE DONE AS NEEDED TO PREVENT TRANSPORT OF SEDIMENT OFF SITE.
3. PRUNE TREES AND VEGETATION WITHIN THE SELECTIVE CLEARING AND PRUNING AREA AS NEEDED.
4. REMOVE AND RESET SIGNS AND GUIDE POSTS AS NEEDED FOR CONSTRUCTION AND SHALL BE INCLUDED IN THE LUMP SUM BID ITEM "ROADWAY SURVEYING".
5. SEE SHEET EC1 AND EC2 FOR PERMITTED WORK ACTIVITIES.

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DATE	10/4/2022
PLOTTED BY	hardoug
DESIGNED BY	D. HARRIS
ENTERED BY	D. HARRIS
CHECKED BY	A. WILLIAMS
PROJ. ENGR.	S. BEIER
REGIONAL ADM.	B. NIELSEN

REVISION	DATE	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER 22A021		
CONTRACT NO.		LOCATION NO.

SPENCER T. BEIER STATE OF WASHINGTON 16005 REGISTERED PROFESSIONAL ENGINEER

SEE CT1
DATE
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DATE
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Washington State Department of Transportation

SR 534
UNNAMED TRIBUTARY TO CARPENTER CR
FISH PASSAGE

SITE PREPARATION / TESC

Plot 1
PLAN REF NO SP1
SHEET 12 OF 48 SHEETS

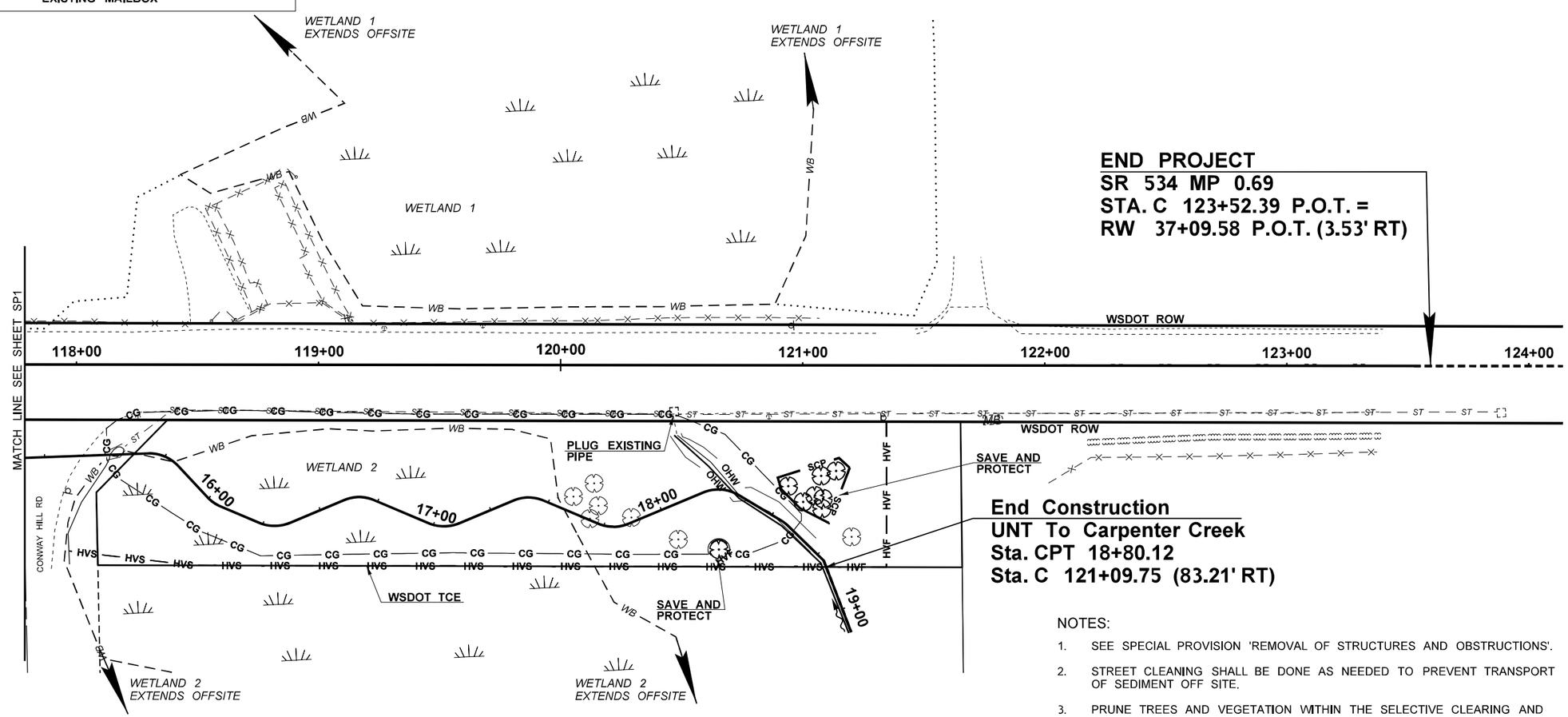
LEGEND	
	RIGHT OF WAY
	TEMPORARY CONSTRUCTION EASEMENT
CG CG	CLEARING AND GRUBBING
HVF HVF	HIGH VISIBILITY FENCE
HVS HVS HV	HIGH VISIBILITY SILT FENCE
SCP	SELECTIVE CLEARING AND PRUNING
WB	WETLAND BOUNDARY
	EXISTING GATE
	EXISTING FENCE
	EXISTING GUARDRAIL
	EXISTING EDGE OF PAVEMENT
	EXISTING TREE
	EXISTING SIGN
	EXISTING GUIDE POST
MB	EXISTING MAILBOX

SELECTIVE CLEARING AND PRUNING
STATION
C 120+90 (46' RT) BEGIN
C 121+15 (38' RT)
C 121+19 (42' RT)
C 121+11 (65' RT)
C 120+99 (59' RT)
C 120+91 (51' RT)
C 120+90 (46' RT) END

HIGH VISIBILITY SILT FENCE	
STATION	LENGTH (LF)
C 117+97 (77' RT) BEGIN	
C 118+48 (83' RT)	47
C 121+08 (83' RT) END	260

HIGH VISIBILITY FENCE	
STATION	LENGTH (LF)
C 121+15 (83' RT) BEGIN	
C 121+35 (83' RT)	20
C 121+35 (23' RT) END	60

CLEARING AND GRUBBING	
LOCATION	AREA (AC.)
SOUTH OF SR 534 / EAST OF CONWAY HILL ROAD	0.34



NOTES:

1. SEE SPECIAL PROVISION 'REMOVAL OF STRUCTURES AND OBSTRUCTIONS'.
2. STREET CLEANING SHALL BE DONE AS NEEDED TO PREVENT TRANSPORT OF SEDIMENT OFF SITE.
3. PRUNE TREES AND VEGETATION WITHIN THE SELECTIVE CLEARING AND PRUNING AREA AS NEEDED.
4. REMOVE AND RESET SIGNS AND GUIDE POSTS AS NEEDED FOR CONSTRUCTION AND SHALL BE INCLUDED IN THE LUMP SUM BID ITEM "ROADWAY SURVEYING".
5. SEE SHEET EC1 AND EC2 FOR PERMITTED WORK ACTIVITIES.

0 25 50
SCALE IN FEET

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DATE	10/4/2022
PLOTTED BY	hardoug
DESIGNED BY	D. HARRIS
ENTERED BY	D. HARRIS
CHECKED BY	A. WILLIAMS
PROJ. ENGR.	S. BEIER
REGIONAL ADM.	B. NIELSEN

REVISION | DATE | BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER 22A021		
CONTRACT NO.		LOCATION NO.

SPENCER T. BEIER STATE OF WASHINGTON 36005 REGISTERED PROFESSIONAL ENGINEER

SEE CT1
DATE
P.E. STAMP BOX

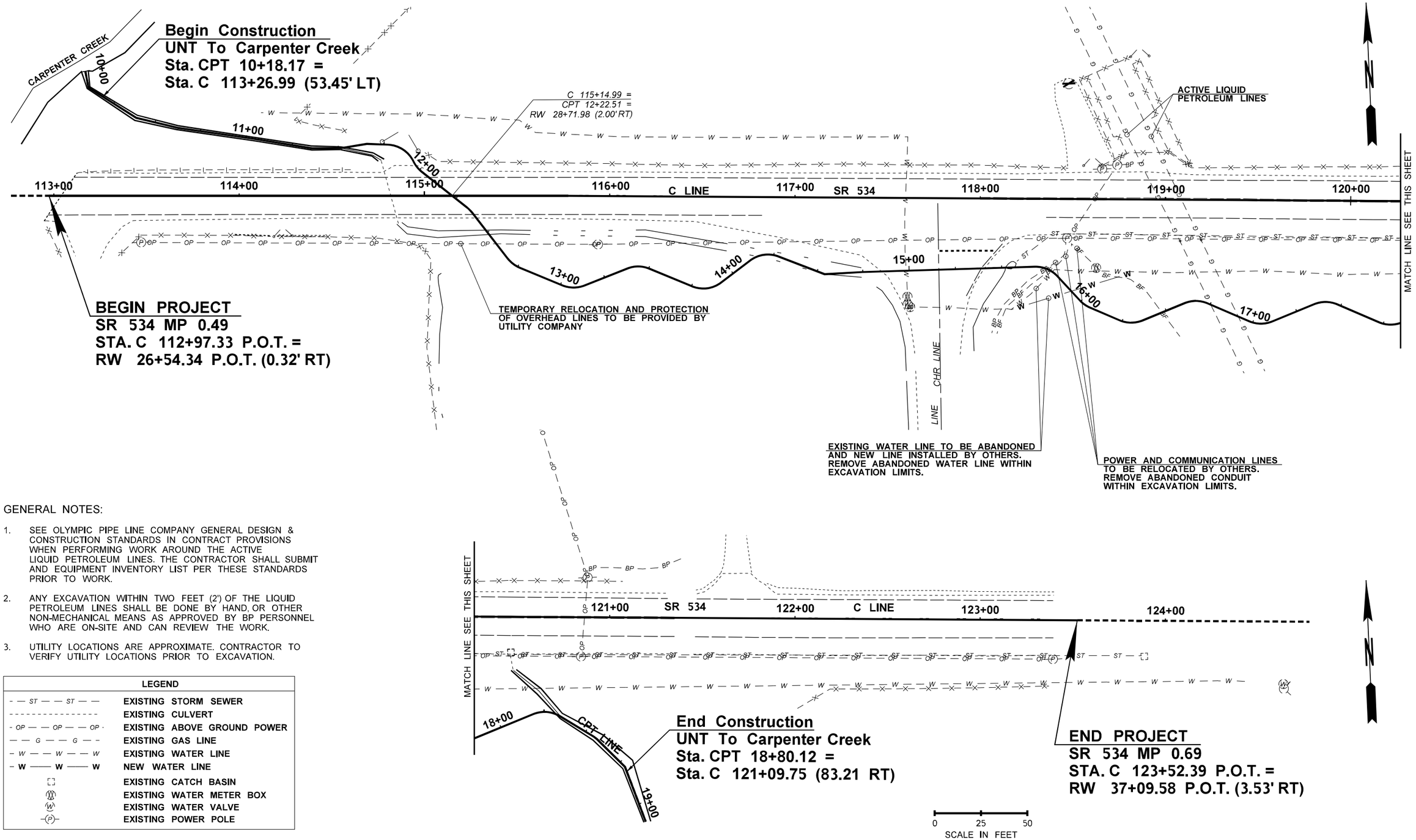
DATE
P.E. STAMP BOX

Washington State Department of Transportation

SR 534
UNNAMED TRIBUTARY TO CARPENTER CR
FISH PASSAGE

SITE PREPARATION / TESC

Plot 2
PLAN REF NO
SP2
SHEET 13 OF 48 SHEETS



GENERAL NOTES:

1. SEE OLYMPIC PIPE LINE COMPANY GENERAL DESIGN & CONSTRUCTION STANDARDS IN CONTRACT PROVISIONS WHEN PERFORMING WORK AROUND THE ACTIVE LIQUID PETROLEUM LINES. THE CONTRACTOR SHALL SUBMIT AND EQUIPMENT INVENTORY LIST PER THESE STANDARDS PRIOR TO WORK.
2. ANY EXCAVATION WITHIN TWO FEET (2') OF THE LIQUID PETROLEUM LINES SHALL BE DONE BY HAND, OR OTHER NON-MECHANICAL MEANS AS APPROVED BY BP PERSONNEL WHO ARE ON-SITE AND CAN REVIEW THE WORK.
3. UTILITY LOCATIONS ARE APPROXIMATE. CONTRACTOR TO VERIFY UTILITY LOCATIONS PRIOR TO EXCAVATION.

LEGEND	
- — ST — — ST — —	EXISTING STORM SEWER
- - - - - - - - - - - - - - -	EXISTING CULVERT
- OP — — OP — — OP -	EXISTING ABOVE GROUND POWER
— — G — — G — —	EXISTING GAS LINE
- W — — W — — W	EXISTING WATER LINE
- W —— W —— W	NEW WATER LINE
[ ]	EXISTING CATCH BASIN
(M)	EXISTING WATER METER BOX
(W)	EXISTING WATER VALVE
-(P)-	EXISTING POWER POLE

FILE NAME	T:\412334\XL6097 SR534 Trib to Carpenter Ck FP\CAE\CAD\ContractPlans\SR534_110_PS_EXUT.dgn				REGION NO. 10	STATE WASH	FED.AID PROJ.NO.
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DATE	10/4/2022				CONTRACT NO.		LOCATION NO.
PLOTTED BY	hardoug						
DESIGNED BY	D. HARRIS						
ENTERED BY	J. MOE						
CHECKED BY	A. WILLIAMS						
PROJ. ENGR.	S. BEIER						
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY			

SPENCER T. BEIER — STATE OF WASHINGTON — 46200 — REGISTERED PROFESSIONAL ENGINEER
SEE CT1
DATE
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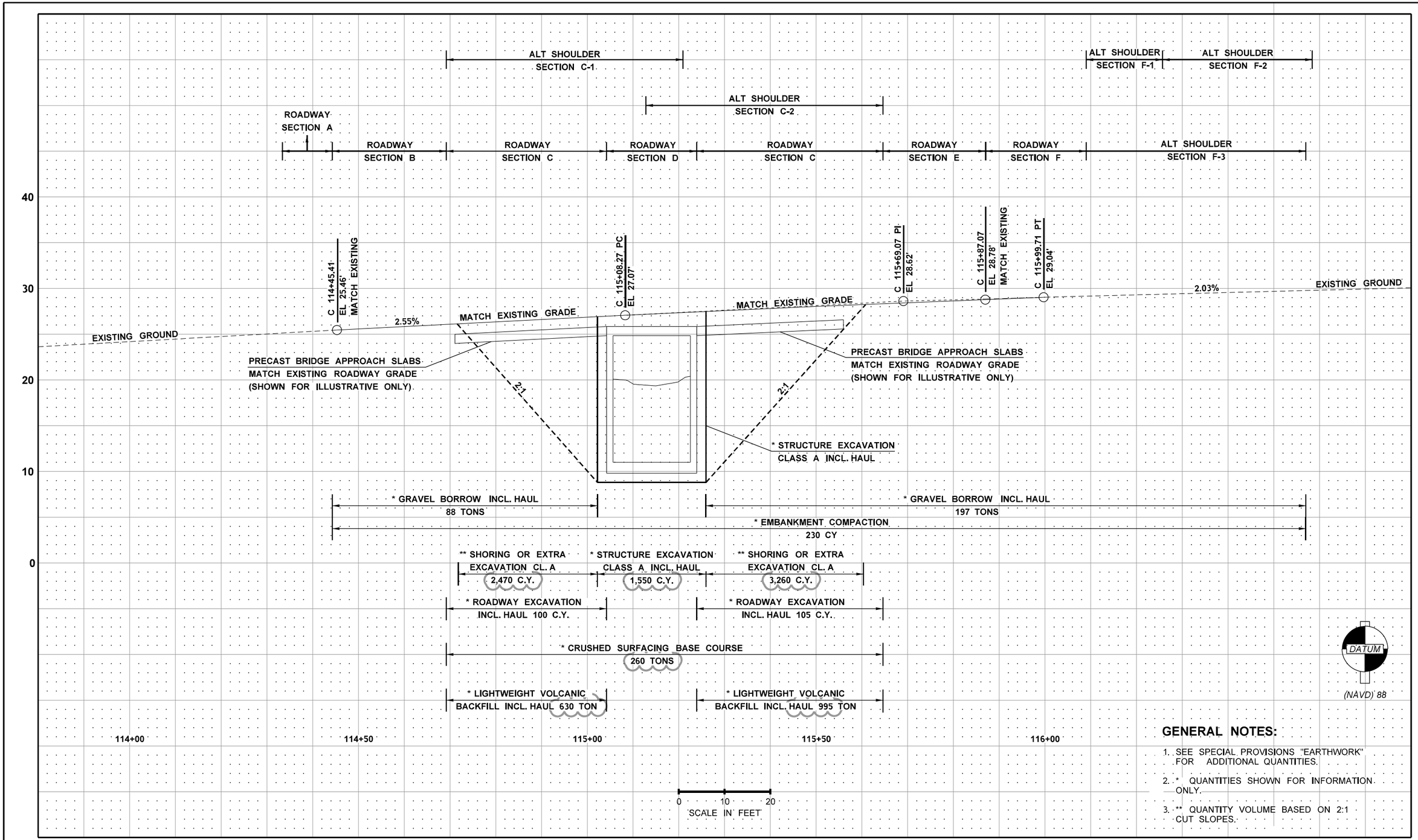
SR 534
UNNAMED TRIBUTARY TO CARPENTER CR
FISH PASSAGE

EXISTING UTILITIES

Plot 1
PLAN REF NO EU1
SHEET 14 OF 48 SHEETS



GENERAL NOTES:

1. SEE SPECIAL PROVISIONS "EARTHWORK" FOR ADDITIONAL QUANTITIES.
2. * QUANTITIES SHOWN FOR INFORMATION ONLY.
3. ** QUANTITY VOLUME BASED ON 2:1 CUT SLOPES.

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DATE	11/8/2022			
PLOTTED BY	hardoug			
DESIGNED BY	D. HARRIS			
ENTERED BY	D. HARRIS			
CHECKED BY	A. WILLIAMS			
PROJ. ENGR.	S. BEIER	AD1 - REVISED QUANTITIES	11/08/2022	DH
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER 22A021		
CONTRACT NO.		LOCATION NO.

SPENCER T. BEIER STATE OF WASHINGTON 16006 REGISTERED PROFESSIONAL ENGINEER

SEE CT1
DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

Washington State Department of Transportation

SR 534
UNNAMED TRIBUTARY TO CARPENTER CR
FISH PASSAGE

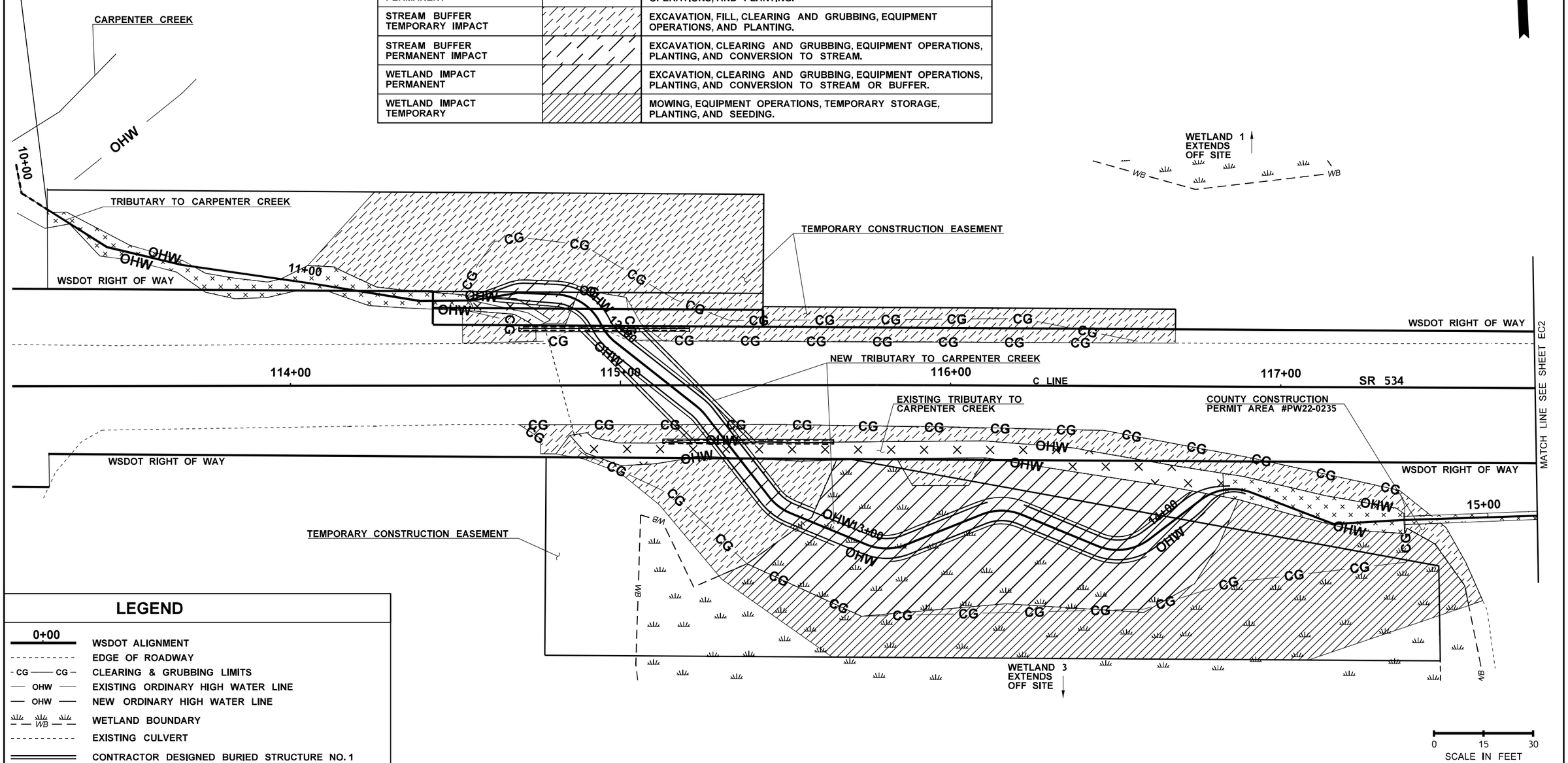
ROADWAY PROFILE

Plot 1
PLAN REF. NO. RP1
SHEET 15 OF 48 SHEETS

WORK SUMMARY

IMPACT TYPE	LEGEND	PERMITTED WORK ACTIVITIES
STREAM IMPACT TEMPORARY		FISH EXCLUSION, LABOR OPERATIONS, STREAM DIVERSION.
STREAM IMPACT PERMANENT		EXCAVATION, FILL, CLEARING AND GRUBBING, EQUIPMENT OPERATIONS, AND PLANTING.
STREAM BUFFER TEMPORARY IMPACT		EXCAVATION, FILL, CLEARING AND GRUBBING, EQUIPMENT OPERATIONS, AND PLANTING.
STREAM BUFFER PERMANENT IMPACT		EXCAVATION, CLEARING AND GRUBBING, EQUIPMENT OPERATIONS, PLANTING, AND CONVERSION TO STREAM.
WETLAND IMPACT PERMANENT		EXCAVATION, CLEARING AND GRUBBING, EQUIPMENT OPERATIONS, PLANTING, AND CONVERSION TO STREAM OR BUFFER.
WETLAND IMPACT TEMPORARY		MOWING, EQUIPMENT OPERATIONS, TEMPORARY STORAGE, PLANTING, AND SEEDING.

Begin Construction
UNT To Carpenter Creek
Sta. CPT 10+18.17 =
Sta. C 113+26.99 (53.45' LT)



LEGEND

0+00	WSDOT ALIGNMENT
	EDGE OF ROADWAY
CG — CG	CLEARING & GRUBBING LIMITS
OHW	EXISTING ORDINARY HIGH WATER LINE
OHW	NEW ORDINARY HIGH WATER LINE
WB	WETLAND BOUNDARY
	EXISTING CULVERT
	CONTRACTOR DESIGNED BURIED STRUCTURE NO. 1

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DATE	10/4/2022						
PLOTTED BY	hardoug				JOB NUMBER 22A021		
DESIGNED BY	D. HARRIS						
ENTERED BY	J. MOE						
CHECKED BY	A. WILLIAMS				CONTRACT NO.		LOCATION NO.
PROJ. ENGR.	S. BEIER						
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY			

P.E. STAMP BOX DATE

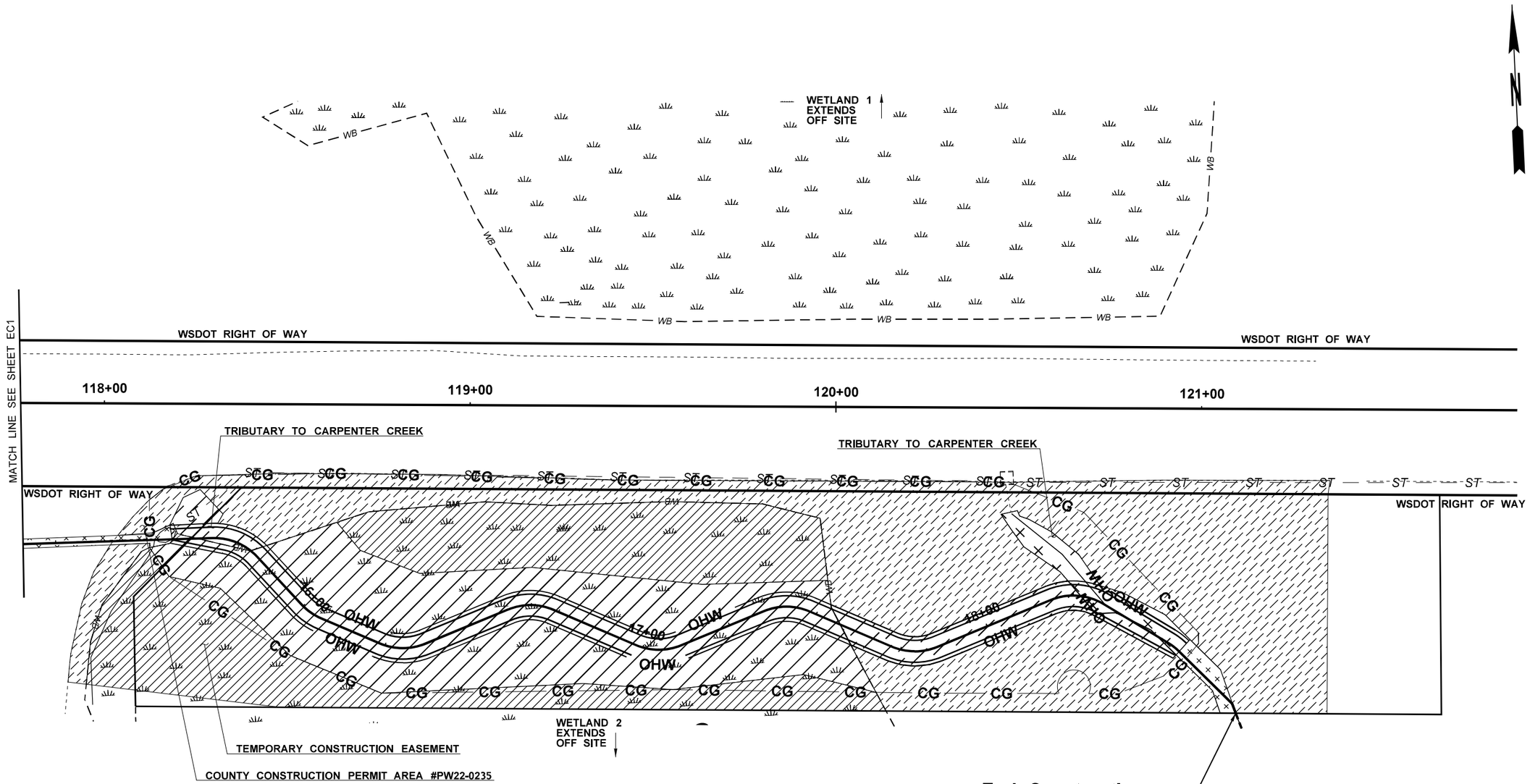
P.E. STAMP BOX DATE

Washington State Department of Transportation

SR 534
UNNAMED TRIBUTARY TO CARPENTER CR
FISH PASSAGE

ENVIRONMENTAL COMPLIANCE PLAN

Plot 11
PLAN REF NO **EC1**
SHEET 16 OF 48 SHEETS



LEGEND

0+00	WSDOT ALIGNMENT
	EDGE OF ROADWAY
CG — CG	CLEARING & GRUBBING LIMITS
OHW	EXISTING ORDINARY HIGH WATER LINE
OHW	NEW ORDINARY HIGH WATER LINE
WB	WETLAND BOUNDARY
	EXISTING CULVERT
	CONTRACTOR DESIGNED BURIED STRUCTURE NO. 1

0 15 30
SCALE IN FEET

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DESIGNED BY	D. HARRIS				JOB NUMBER 22A021		
ENTERED BY	J. MOE						
CHECKED BY	A. WILLIAMS				CONTRACT NO.		LOCATION NO.
PROJ. ENGR.	S. BEIER						
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY			

P.E. STAMP BOX DATE

P.E. STAMP BOX DATE

Washington State
Department of Transportation

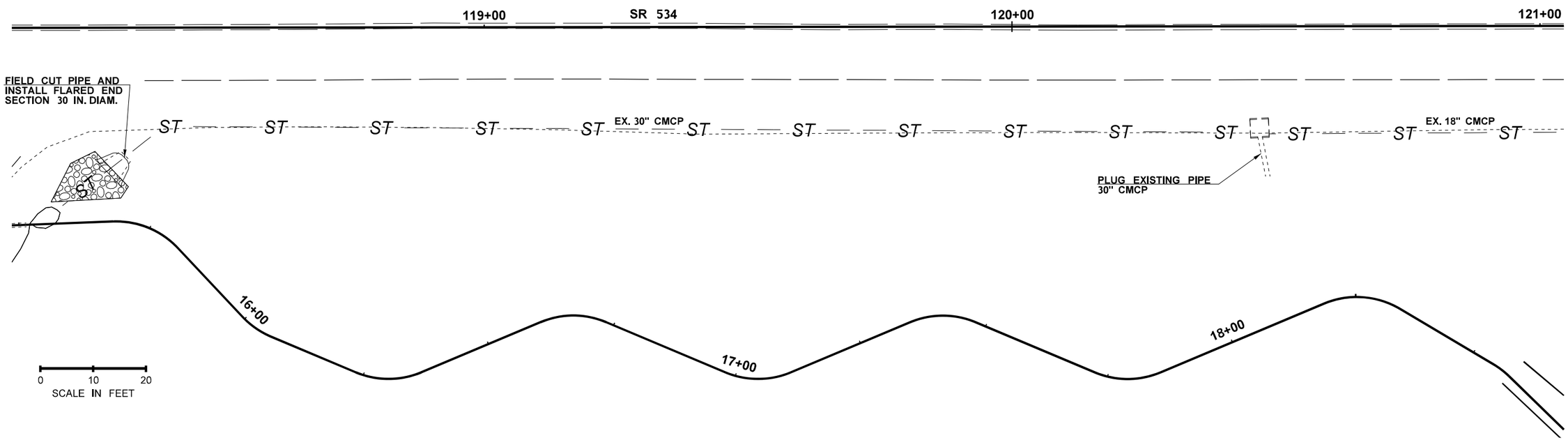
SR 534
UNNAMED TRIBUTARY TO CARPENTER CR
FISH PASSAGE

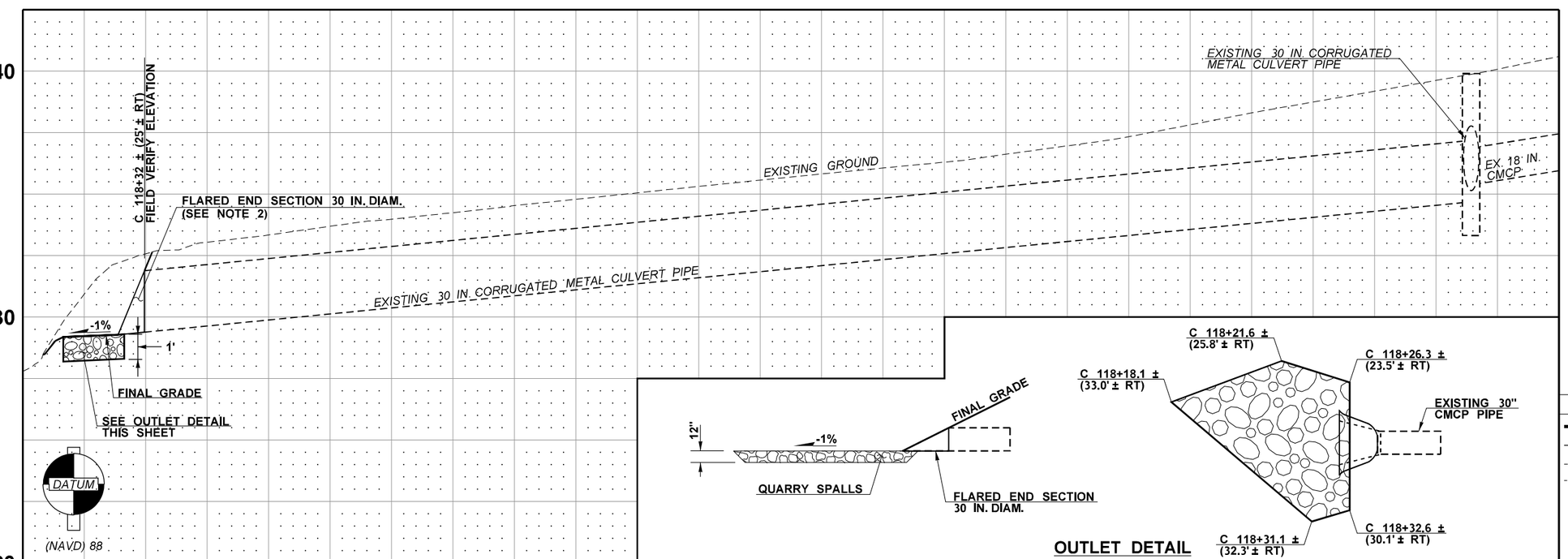
ENVIRONMENTAL COMPLIANCE PLAN

Plot 12

PLAN REF NO
EC2

SHEET 17 OF 48 SHEETS





OUTLET DETAIL

NOTES:

1. FOR EXISTING AND FINAL GROUND SEE GRADING PLAN.
2. FLARED END SECTION, SEE STANDARD PLAN B-70.60.

LEGEND

- CONSTRUCTION CENTERLINE
- EXISTING EDGE OF LANE
- EXISTING EDGE OF PAVEMENT
- ST — — ST — — EXISTING STORM SEWER
- EXISTING CATCH BASIN
- FLARED END SECTION 30 IN. DIAM.

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CHECKED BY	A. WILLIAMS
PROJ. ENGR.	S. BEIER
REGIONAL ADM.	B. NIELSEN

REVISION	DATE	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER 22A021		
CONTRACT NO.		LOCATION NO.

SPENCER T. BEIER — STATE OF WASHINGTON — 36005 — REGISTERED PROFESSIONAL ENGINEER

SEE CT1
DATE
P.E. STAMP BOX

DATE
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Washington State Department of Transportation

SR 534
UNNAMED TRIBUTARY TO CARPENTER CR
FISH PASSAGE

DRAINAGE PLAN AND PROFILE

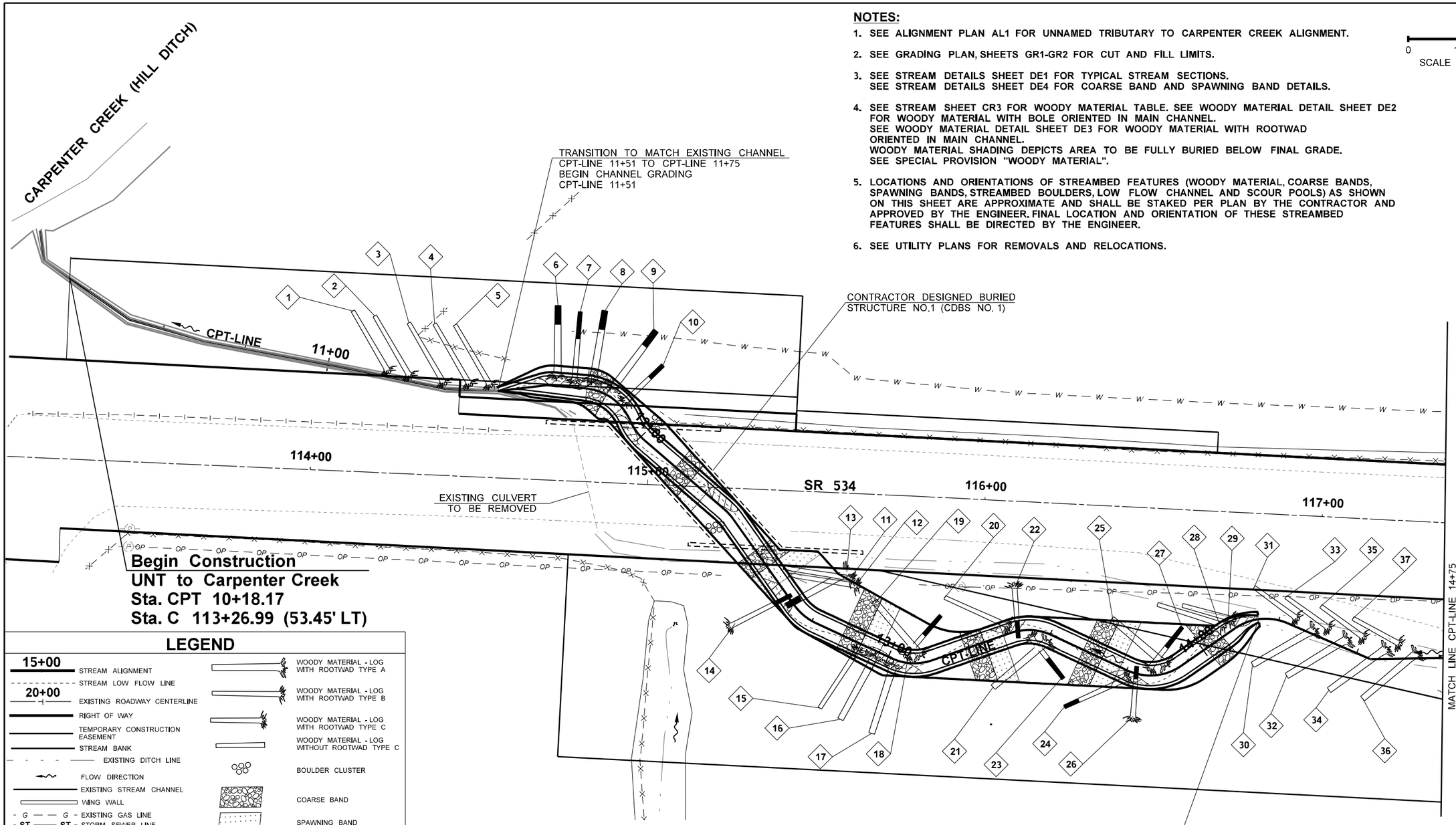
Plot 1
PLAN REF. NO. DR1
SHEET 18 OF 48 SHEETS

NOTES:

1. SEE ALIGNMENT PLAN AL1 FOR UNNAMED TRIBUTARY TO CARPENTER CREEK ALIGNMENT.
2. SEE GRADING PLAN, SHEETS GR1-GR2 FOR CUT AND FILL LIMITS.
3. SEE STREAM DETAILS SHEET DE1 FOR TYPICAL STREAM SECTIONS.
   SEE STREAM DETAILS SHEET DE4 FOR COARSE BAND AND SPAWNING BAND DETAILS.
4. SEE STREAM SHEET CR3 FOR WOODY MATERIAL TABLE. SEE WOODY MATERIAL DETAIL SHEET DE2 FOR WOODY MATERIAL WITH BOLE ORIENTED IN MAIN CHANNEL.
   SEE WOODY MATERIAL DETAIL SHEET DE3 FOR WOODY MATERIAL WITH ROOTWAD ORIENTED IN MAIN CHANNEL.
   WOODY MATERIAL SHADING DEPICTS AREA TO BE FULLY BURIED BELOW FINAL GRADE.
   SEE SPECIAL PROVISION "WOODY MATERIAL".
5. LOCATIONS AND ORIENTATIONS OF STREAMBED FEATURES (WOODY MATERIAL, COARSE BANDS, SPAWNING BANDS, STREAMBED BOULDERS, LOW FLOW CHANNEL AND SCOUR POOLS) AS SHOWN ON THIS SHEET ARE APPROXIMATE AND SHALL BE STAKED PER PLAN BY THE CONTRACTOR AND APPROVED BY THE ENGINEER. FINAL LOCATION AND ORIENTATION OF THESE STREAMBED FEATURES SHALL BE DIRECTED BY THE ENGINEER.
6. SEE UTILITY PLANS FOR REMOVALS AND RELOCATIONS.

0 15 30
SCALE IN FEET

N



LEGEND

- 15+00 STREAM ALIGNMENT
- STREAM LOW FLOW LINE
- 20+00 EXISTING ROADWAY CENTERLINE
- RIGHT OF WAY
- TEMPORARY CONSTRUCTION EASEMENT
- STREAM BANK
- EXISTING DITCH LINE
- FLOW DIRECTION
- EXISTING STREAM CHANNEL
- WING WALL
- G — G EXISTING GAS LINE
- ST — ST STORM SEWER LINE
- ST — ST EXISTING STORM SEWER LINE
- W — W EXISTING WATER LINE
- OP — OP EXISTING OVERHEAD UTILITY
- EXISTING UTILITY POLE
- BP — BP BURIED POWER
- BF — BF BURIED FIBER
- WOODY MATERIAL - LOG WITH ROOTWAD TYPE A
- WOODY MATERIAL - LOG WITH ROOTWAD TYPE B
- WOODY MATERIAL - LOG WITH ROOTWAD TYPE C
- WOODY MATERIAL - LOG WITHOUT ROOTWAD TYPE C
- BOULDER CLUSTER
- COARSE BAND
- SPAWNING BAND
- PREFORMED SCOUR POOL
- # CONSTRUCTION NOTE, SEE NOTE 4 AND SHEET CR3 FOR LWM (TYP.)
- EXISTING CATCH BASIN
- EXISTING EDGE OF PAVEMENT
- EXISTING FENCE
- GUARDRAIL

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DESIGNED BY	A. MILLER					
ENTERED BY	S. CROSIER					
CHECKED BY	T. NABOURS					
PROJ. ENGR.	S. BEIER					
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY		

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER 22A021		
CONTRACT NO.		LOCATION NO.

P.E. STAMP BOX — DATE

JULIE HEILMAN, STATE OF WASHINGTON, REGISTERED PROFESSIONAL ENGINEER — DATE

P.E. STAMP BOX

Washington State Department of Transportation

Parametrix

SR 534
UNNAMED TRIBUTARY TO CARPENTER CR
FISH PASSAGE

STREAM PLAN

PLAN REF NO CR1

SHEET 19 OF 48 SHEETS

NOTES:

1. SEE ALIGNMENT PLAN AL1 FOR UNNAMED TRIBUTARY TO CARPENTER CREEK ALIGNMENT.

2. SEE GRADING PLAN, SHEETS GR1-GR2 FOR CUT AND FILL LIMITS.

3. SEE STREAM DETAILS SHEET DE1 FOR TYPICAL STREAM SECTIONS.
SEE STREAM DETAILS SHEET DE4 FOR COARSE BAND AND SPAWNING BAND DETAILS.

4. SEE STREAM SHEET CR3 FOR WOODY MATERIAL TABLE. SEE WOODY MATERIAL DETAIL SHEET DE2 FOR WOODY MATERIAL WITH BOLE ORIENTED IN MAIN CHANNEL.
SEE WOODY MATERIAL DETAIL SHEET DE3 FOR WOODY MATERIAL WITH ROOTWAD ORIENTED IN MAIN CHANNEL.
WOODY MATERIAL SHADING DEPICTS AREA TO BE FULLY BURIED BELOW FINAL GRADE.
SEE SPECIAL PROVISION "WOODY MATERIAL".

5. LOCATIONS AND ORIENTATIONS OF STREAMBED FEATURES (WOODY MATERIAL, COARSE BANDS, SPAWNING BANDS, LOW FLOW CHANNEL AND SCOUR POOLS) AS SHOWN ON THIS SHEET ARE APPROXIMATE AND SHALL BE STAKED PER PLAN BY THE CONTRACTOR AND APPROVED BY THE ENGINEER. FINAL LOCATION AND ORIENTATION OF THESE STREAMBED FEATURES SHALL BE DIRECTED BY THE ENGINEER.

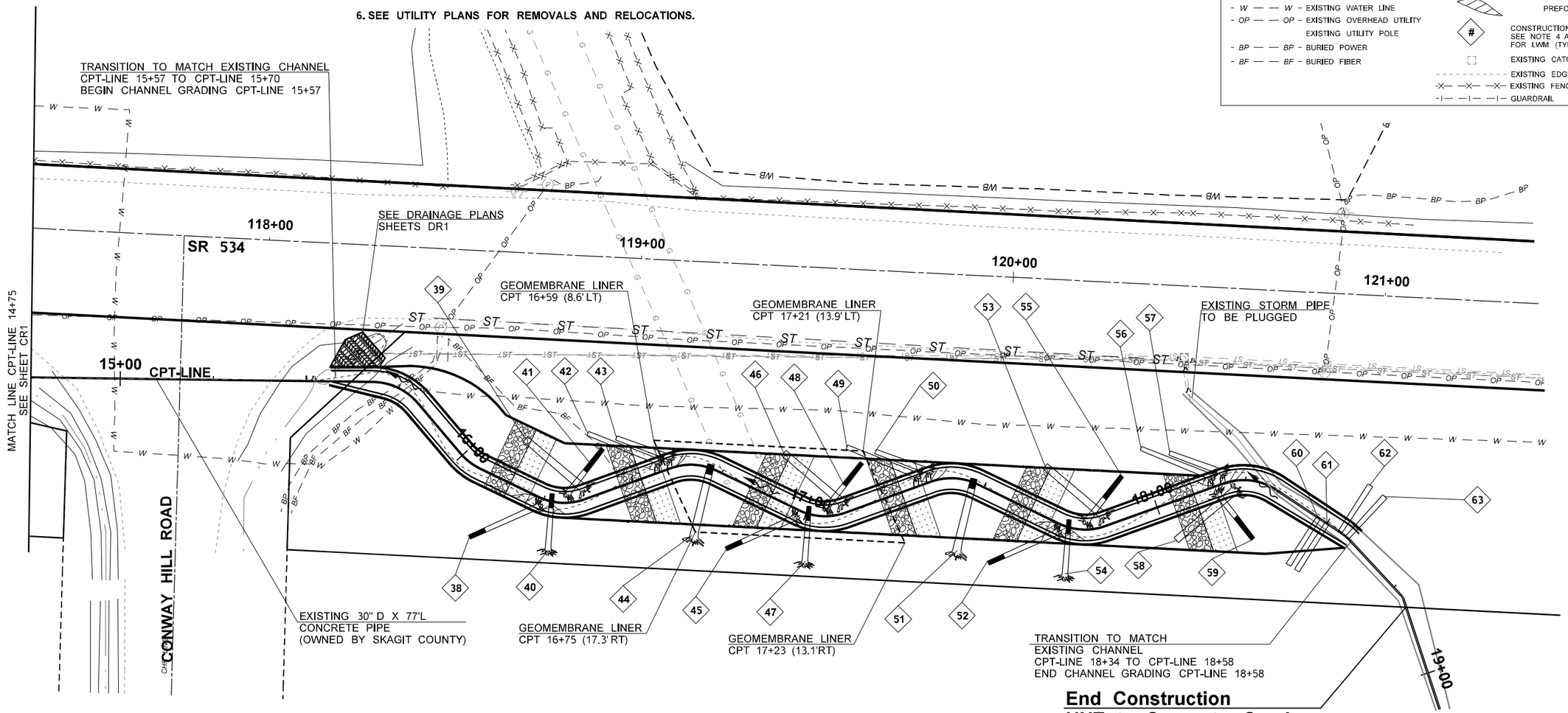
6. SEE UTILITY PLANS FOR REMOVALS AND RELOCATIONS.

0 15 30
SCALE IN FEET

N

LEGEND

- 15+00 STREAM ALIGNMENT
- STREAM LOW FLOW LINE
- 20+00 EXISTING ROADWAY CENTERLINE
- RIGHT OF WAY
- TEMPORARY CONSTRUCTION EASEMENT
- STREAM BANK
- EXISTING DITCH LINE
- FLOW DIRECTION
- EXISTING STREAM CHANNEL
- WING WALL
- G — — G - EXISTING GAS LINE
- ST — — ST - STORM SEWER LINE
- ST — — ST - EXISTING STORM SEWER LINE
- W — — W - EXISTING WATER LINE
- OP — — OP - EXISTING OVERHEAD UTILITY
- EXISTING UTILITY POLE
- BP — — BP - BURIED POWER
- BF — — BF - BURIED FIBER
- WOODY MATERIAL - LOG WITH ROOTWAD TYPE A
- WOODY MATERIAL - LOG WITH ROOTWAD TYPE B
- WOODY MATERIAL - LOG WITH ROOTWAD TYPE C
- WOODY MATERIAL - LOG WITHOUT ROOTWAD TYPE C
- BOULDER CLUSTER
- COARSE BAND
- SPAWNING BAND
- PREFORMED SCOUR POOL
- # CONSTRUCTION NOTE. SEE NOTE 4 AND SHEET CR3 FOR LWM (TYP.)
- EXISTING CATCH BASIN
- EXISTING EDGE OF PAVEMENT
- EXISTING FENCE
- GUARDRAIL



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DESIGNED BY	A. MILLER						
ENTERED BY	S. CROSIER						
CHECKED BY	T. NABOURS				CONTRACT NO.		LOCATION NO.
PROJ. ENGR.	S. BEIER						
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY			

DATE
P.E. STAMP BOX

JULIE HEILMAN — STATE OF WASHINGTON — 41873 — REGISTERED PROFESSIONAL ENGINEER
DATE
P.E. STAMP BOX

Washington State Department of Transportation
Parametrix

SR 534
UNNAMED TRIBUTARY TO CARPENTER CR
FISH PASSAGE

STREAM PLAN

PLAN REF NO
CR2

SHEET 20 OF 48 SHEETS

WOODY MATERIAL LOCATION TABLE

SHEET NO.	WOODY MATERIAL NO.	TYPE	IN STREAM FEATURE (SEE NOTE 2)	ROOTWAD (Y/N)	STATION / OFFSET (SEE NOTE 2)	ANGLE A (DEG.)	ANGLE B (DEG.)	DISTANCE C (FT) (SEE NOTE 1)	LOGS TO BE PLACED ABOVE WOODY MATERIAL NO.
CR1	1	B	RW	Y	CPT 11+17 (2' LT)	315	6	1.3	-
CR1	2	B	RW	Y	CPT 11+24 (2' LT)	315	6	1.3	-
CR1	3	B	RW	Y	CPT 11+34 (2' LT)	315	6	1.3	-
CR1	4	B	RW	Y	CPT 11+42 (2' LT)	315	6	1.3	-
CR1	5	B	RW	Y	CPT 11+48 (2' LT)	315	6	1.3	-
CR1	6	A	RW	Y	CPT 11+68 (3.5' LT)	270	15	0.3	-
CR1	7	B	RW	Y	CPT 11+74 (2.5' LT)	270	15	0.3	-
CR1	8	A	RW	Y	CPT 11+79 (3.5' LT)	270	15	0.3	-
CR1	9	A	RW	Y	CPT 11+84 (3.5' LT)	270	15	0.3	-
CR1	10	C	RW	Y	CPT 11+89 (2.5' LT)	270	15	0.3	
CR1	11	B	STEM	Y	CPT 12+57 (4' LT)	45	10	0.8	-
CR1	12	B	STEM	Y	CPT 12+60 (4' LT)	45	10	0.8	-
CR1	13	A	STEM	Y	CPT 12+67 (2' RT)	80	15	-2.9	11, 12
CR1	14	B	STEM	Y	CPT 12+65 (1' LT)	260	23	-2.0	-
CR1	15	B	RW	Y	CPT 12+91 (2.5' RT)	90	21	0.4	-
CR1	16	A	RW	Y	CPT 12+96 (2.5' RT)	90	19	0.6	-
CR1	17	A	RW	Y	CPT 13+02 (2.5' RT)	90	19	0.6	-
CR1	18	C	RW	Y	CPT 13+06 (2.5' LT)	235	-5	-0.3	19
CR1	19	A	RW	Y	CPT 13+10 (3' LT)	315	0	1.0	-
CR1	20	B	RW	Y	CPT 13+38 (2.5' LT)	315	10	0.3	-
CR1	21	A	RW	Y	CPT 13+50 (3.0' RT)	20	0	1.1	-
CR1	22	C	STEM	Y	CPT 13+40 (2' RT)	90	30	-3.2	-
CR1	23	C	RW	Y	CPT 13+45 (2.5' RT)	110	-5	-0.4	21
CR1	24	B	RW	Y	CPT 13+76 (2.5' RT)	50	6	0.3	-
CR1	25	A	RW	Y	CPT 13+87 (3' LT)	315	0	1.0	-
CR1	26	C	STEM	Y	CPT 13+78 (2' LT)	270	30	-3.2	-
CR1	27	C	RW	Y	CPT 13+83 (2.5' LT)	235	-5	-0.3	25
CR1	28	B	RW	Y	CPT 14+09 (3' LT)	320	4	0.4	-
CR1	29	C	RW	Y	CPT 14+12 (3' LT)	320	4	0.7	-
CR1	30	A	RW	Y	CPT 14+35 (1' LT)	45	6	1.2	-
CR1	31	C	RW	Y	CPT 14+29 (2.5' LT)	340	7	1.0	-
CR1	32	A	RW	Y	CPT 14+45 (2.2' LT)	45	6	1.2	-
CR1	33	C	RW	Y	CPT 14+39 (3.6' LT)	340	7	1.0	-
CR1	34	A	RW	Y	CPT 14+59 (2.6' LT)	45	6	1.2	-
CR1	35	C	RW	Y	CPT 14+49 (5.2' LT)	340	7	1.0	-
CR1	36	A	RW	Y	CPT 14+68 (1.1' LT)	45	6	1.2	-
CR1	37	C	RW	Y	CPT 14+62 (4.6' LT)	340	7	1.0	-
CR2	38	B	RW	Y	CPT 16+24 (2.5' RT)	50	6	0.3	-
CR2	39	A	RW	Y	CPT 16+37 (3' RT)	315	0	1.0	-
CR2	40	C	STEM	Y	CPT 16+27 (2' LT)	270	30	-3.2	-
CR2	41	C	RW	Y	CPT 16+32 (2.5' LT)	235	-5	-0.3	39
CR2	42	B	RW	Y	CPT 16+58 (3' LT)	320	4	0.4	-
CR2	43	C	RW	Y	CPT 16+61 (3' LT)	320	4	0.7	-
CR2	44	A	STEM	Y	CPT 16+71 (1' LT)	290	25	-2.9	-
CR2	45	B	RW	Y	CPT 16+98 (2.5' RT)	50	6	0.3	-
CR2	46	A	RW	Y	CPT 17+11 (3' LT)	315	0	1.0	-
CR2	47	C	STEM	Y	CPT 17+00 (2' LT)	270	30	-3.2	-
CR2	48	C	RW	Y	CPT 17+06 (2.5' LT)	235	-5	-0.3	46
CR2	49	B	RW	Y	CPT 17+32 (3' LT)	320	4	0.4	-
CR2	50	C	RW	Y	CPT 17+35 (3' LT)	320	4	0.7	-
CR2	51	A	STEM	Y	CPT 17+47 (1' LT)	290	25	-2.9	-
CR2	52	B	RW	Y	CPT 17+73 (2.5' RT)	50	6	0.3	-
CR2	53	A	RW	Y	CPT 17+86 (3' LT)	315	0	1.0	-
CR2	54	C	STEM	Y	CPT 17+75 (2' LT)	270	30	-3.2	-
CR2	55	C	RW	Y	CPT 17+80 (2.5' LT)	235	-5	-0.3	53
CR2	56	B	RW	Y	CPT 18+16 (3' LT)	320	4	0.4	-
CR2	57	C	RW	Y	CPT 18+20 (3' LT)	320	4	0.7	-
CR2	58	A	RW	Y	CPT 18+21 (3' RT)	20	0	1.1	-
CR2	59	C	RW	Y	CPT 18+17 (2.5' RT)	110	-5	-0.4	58
CR2	60	C	RW	N	CPT 18+47 (0' RT)	90	12	-0.4	-
CR2	61	C	RW	N	CPT 18+50 (0' RT)	90	12	-0.4	-
CR2	62	C	RW	N	CPT 18+54 (0' LT)	270	20	-0.4	-
CR2	63	C	RW	N	CPT 18+57 (0' LT)	270	20	-0.4	-

NOTES:

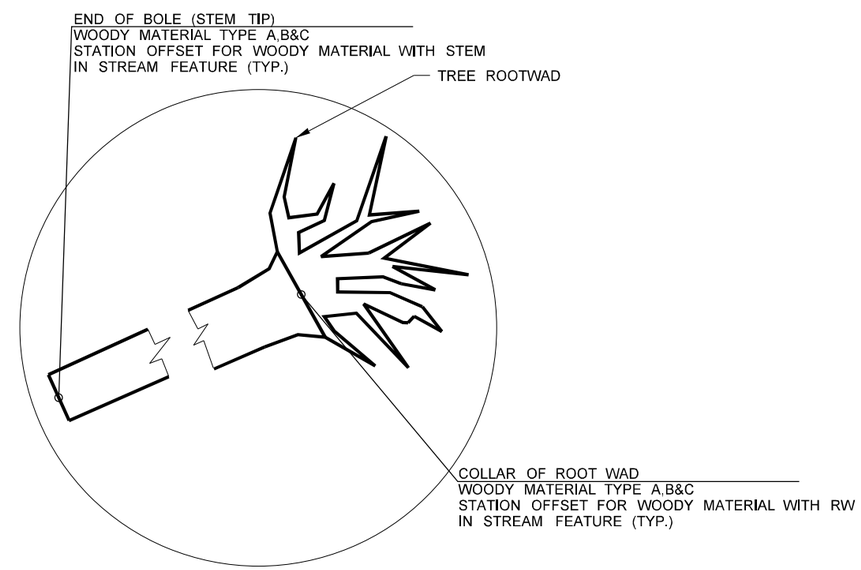
1. SEE DE SHEETS FOR WOODY MATERIAL DETAILS.
2. SEE STATION/OFFSET LOCATION DETAIL BELOW FOR STATION/OFFSET LOCATION BASED ON IN STREAM FEATURE REFERRED TO IN WOODY MATERIAL LOCATION TABLE.
3. MINIMUM LENGTH IS MEASURED FROM COLLAR OF ROOT WAD TO END OF BOLE (STEM TIP).
4. ANGLE "A" IS MEASURED COUNTER CLOCKWISE FROM THE STREAM CENTERLINE TO THE LOG CENTERLINE AT THE STEM TIP AS DEPICTED ON DETAIL SHEET DE2 AND DE3.
5. ANGLE "B" IS MEASURED FROM HORIZONTAL AS SHOWN ON SHEETS DE2 AND DE3. A POSITIVE ANGLE "B" VALUE INDICATES THAT THE ELEVATION OF THE LOG END FURTHEST FROM MAIN CHANNEL IS HIGHER THAN THE LOG END NEAREST TO THE MAIN CHANNEL. A NEGATIVE "B" VALUE INDICATES THAT THE ELEVATION OF THE LOG END FURTHEST FROM THE MAIN CHANNEL IS LOWER THAN THE LOG END NEAREST TO THE MAIN CHANNEL.
6. A NEGATIVE "C" VALUE INDICATES DEPTH BENEATH THALWEG. A POSITIVE "C" VALUE INDICATES DEPTH ABOVE THALWEG.
7. LOCATIONS AND ORIENTATION OF STREAMBED FEATURES (WOODY MATERIAL, COARSE BANDS, SPAWNING BANDS, LOW FLOW CHANNEL, AND SCOUR POOLS) ARE APPROXIMATE AND SHALL BE STAKED PER PLAN BY THE CONTRACTOR AND APPROVED BY THE ENGINEER. FINAL LOCATION AND ORIENTATION OF THESE STREAMBED FEATURES SHALL BE DIRECTED BY THE ENGINEER.

WOODY MATERIAL - LOG WITH ROOTWAD

TYPE	LENGTH	DBH	TOTAL
TYPE A	20 FT	2.0 FT	19
TYPE B	20 FT	1.5 FT	19
TYPE C	15 FT	1.5 FT	21

WOODY MATERIAL - LOG WITHOUT ROOTWAD

TYPE	LENGTH	DBH	TOTAL
TYPE C	15 FT	1.5 FT	4



STATION / OFFSET LOCATION DETAIL

PLAN VIEW

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ENTERED BY	S. CROSIER
CHECKED BY	T. NABOURS
PROJ. ENGR.	S. BEIER
REGIONAL ADM.	B. NIELSEN

REVISION | DATE | BY

REGION NO. 10 | STATE WASH | FED.AID PROJ.NO.

JOB NUMBER 22A021

CONTRACT NO. | LOCATION NO.

P.E. STAMP BOX DATE

JULIE HEILMAN STATE OF WASHINGTON 41819 REGISTERED PROFESSIONAL ENGINEER

P.E. STAMP BOX DATE

Washington State Department of Transportation

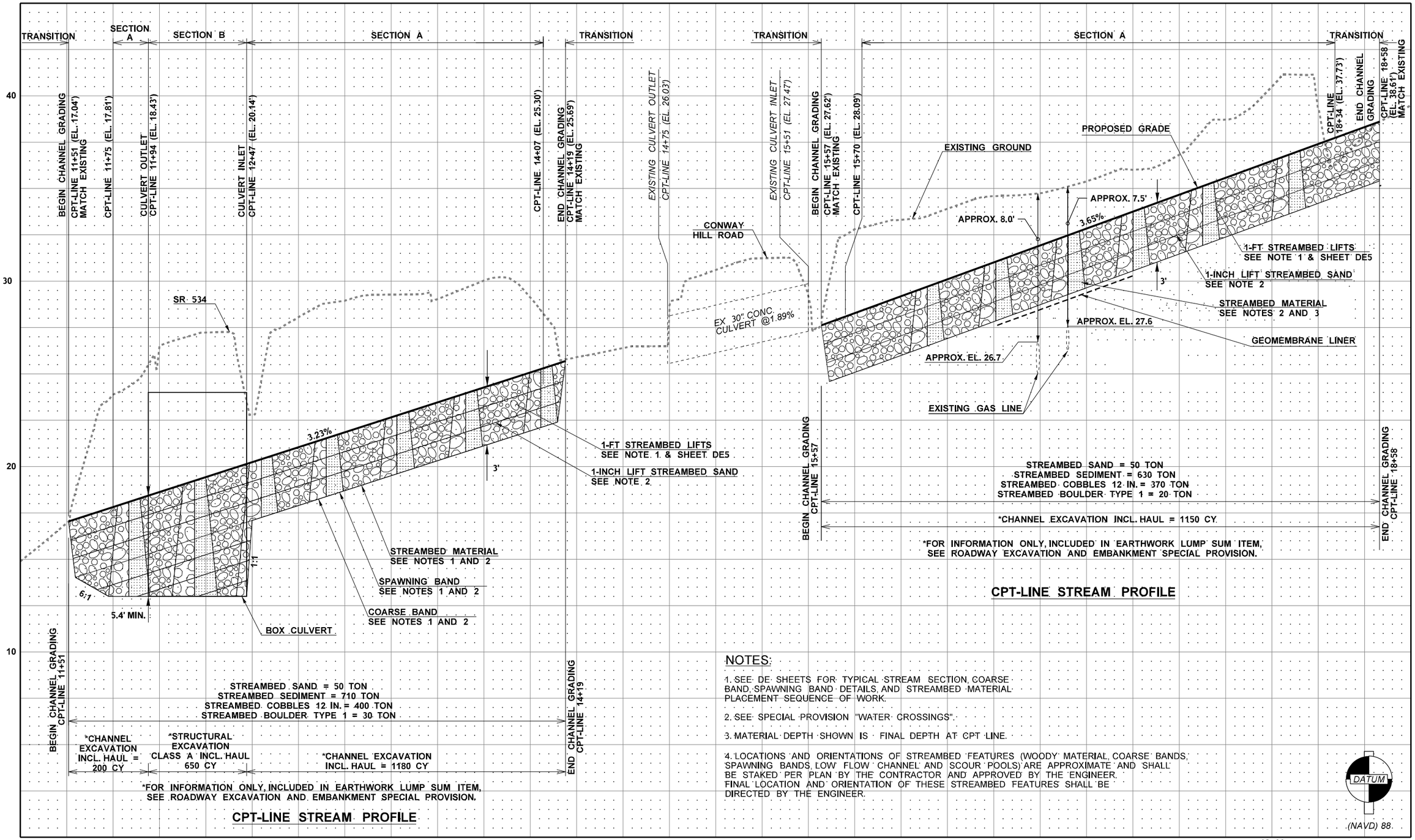
Parametrix

SR 534
UNNAMED TRIBUTARY TO CARPENTER CR
FISH PASSAGE

STREAM PLAN

PLAN REF NO CR3

SHEET 21 OF 48 SHEETS



NOTES:

1. SEE DE SHEETS FOR TYPICAL STREAM SECTION, COARSE BAND, SPAWNING BAND DETAILS, AND STREAMBED MATERIAL PLACEMENT SEQUENCE OF WORK.
2. SEE SPECIAL PROVISION "WATER CROSSINGS".
3. MATERIAL DEPTH SHOWN IS FINAL DEPTH AT CPT LINE.
4. LOCATIONS AND ORIENTATIONS OF STREAMBED FEATURES (WOODY MATERIAL, COARSE BANDS, SPAWNING BANDS, LOW FLOW CHANNEL AND SCOUR POOLS) ARE APPROXIMATE AND SHALL BE STAKED PER PLAN BY THE CONTRACTOR AND APPROVED BY THE ENGINEER. FINAL LOCATION AND ORIENTATION OF THESE STREAMBED FEATURES SHALL BE DIRECTED BY THE ENGINEER.

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DATE	10/4/2022						
PLOTTED BY	AudarJun				JOB NUMBER 22A021		
DESIGNED BY	A. MILLER						
ENTERED BY	S. CROSIER						
CHECKED BY	T. NABOURS				CONTRACT NO.	LOCATION NO.	
PROJ. ENGR.	S. BEIER						
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY			

P.E. STAMP BOX DATE

NILIE HEILMAN STATE OF WASHINGTON 41819 REGISTERED PROFESSIONAL ENGINEER

P.E. STAMP BOX DATE

Washington State Department of Transportation

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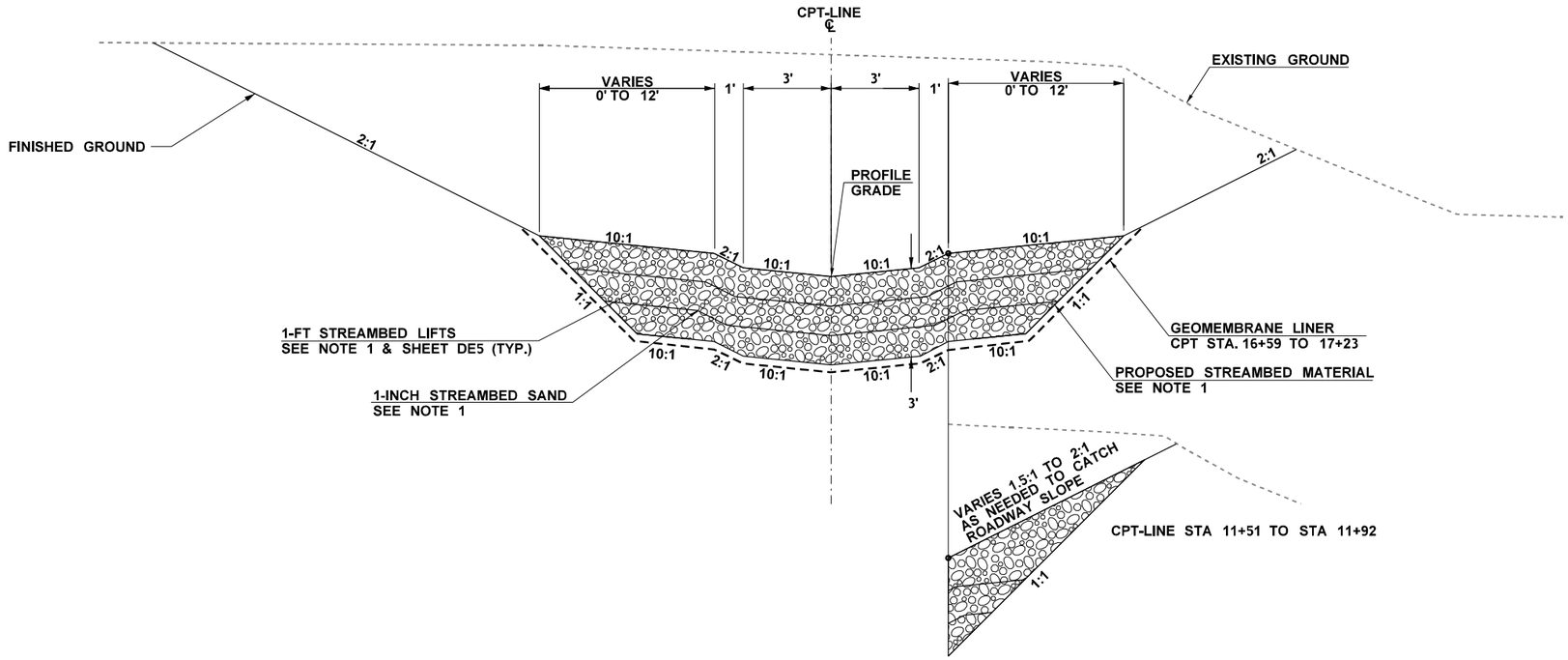
SR 534
UNNAMED TRIBUTARY TO CARPENTER CR
FISH PASSAGE

STREAM PROFILE

Plot 1

PLAN REF. NO. STP1

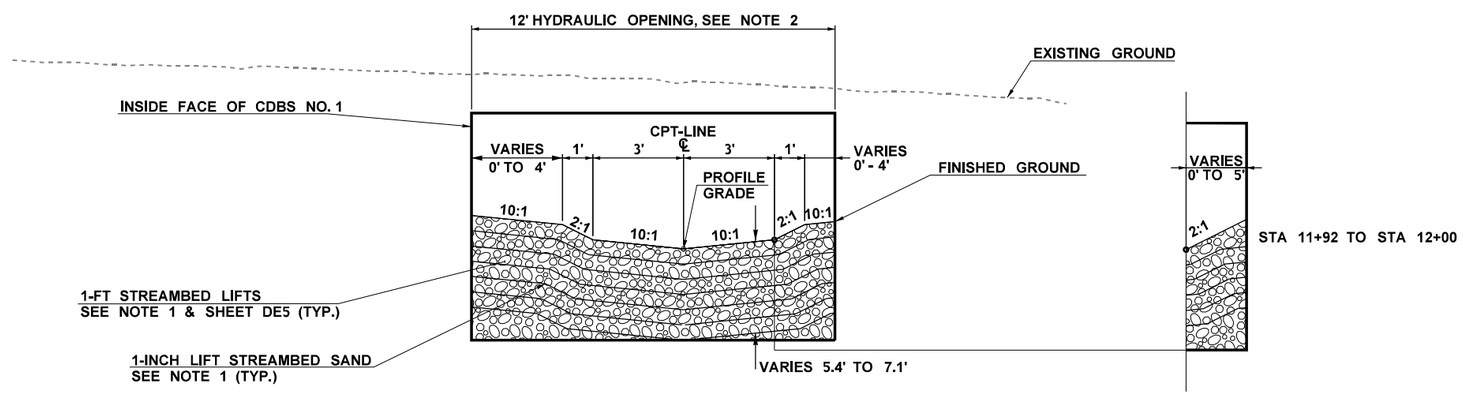
SHEET 22 OF 48 SHEETS



UNNAMED TRIBUTARY TO CARPENTER CREEK TYPICAL STREAM SECTION A

NOT TO SCALE
CPT STA 11+51 TO STA 11+92 RT / STA 12+04 LT AND STA 12+52 LT / STA 12+42 RT TO STA 14+19
TRANSITION TO EXISTING CPT STA 11+51 TO STA 11+75
TRANSITION TO EXISTING CPT STA 14+07 TO STA 14+19

CPT STA 15+57 TO STA 18+58
TRANSITION TO EXISTING CPT STA 15+57 TO STA 15+70
TRANSITION TO EXISTING CPT STA 18+34 TO STA 18+58



NOTE:

1. SEE SPECIAL PROVISION "WATER CROSSINGS".
2. HYDRAULIC OPENING AS MEASURED PERPENDICULAR TO BEARING OF CULVERT.

UNNAMED TRIBUTARY TO CARPENTER CREEK TYPICAL STREAM SECTION B

NOT TO SCALE
CPT STA 11+92 RT / STA 12+04 LT TO
CPT STA 12+52 LT / STA 12+42 RT

FILE NAME	U:\PSO\Projects\Clients\1631-WSDOT\553-1631-127 AE SecretCrtoPilchuck\99Svcs\CADD\DGN\PS&ESheets\CARPENTER\XL6097_PS_CPT_STP_DE.dgn						
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ENTERED BY	S. CROSIER				CONTRACT NO.		LOCATION NO.
CHECKED BY	T. NABOURS						
PROJ. ENGR.	S. BEIER						
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY			

P.E. STAMP BOX — DATE

JULIE HRILMAN — STATE OF WASHINGTON — 41819 — REGISTERED PROFESSIONAL ENGINEER — DATE — P.E. STAMP BOX

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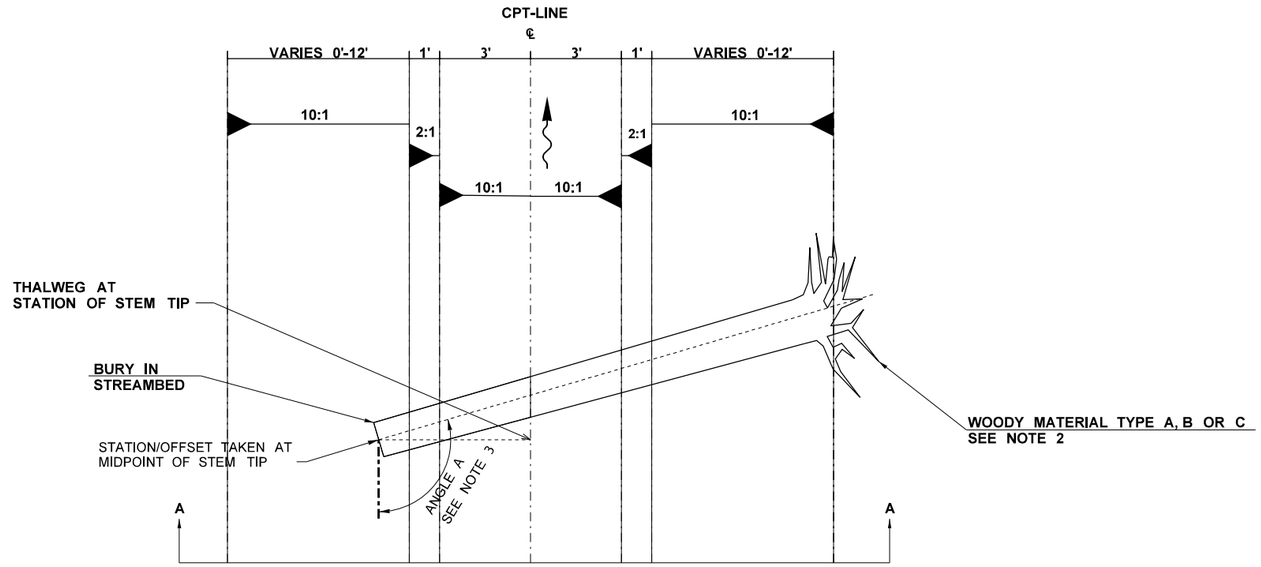
SR 534
UNNAMED TRIBUTARY TO CARPENTER CR
FISH PASSAGE

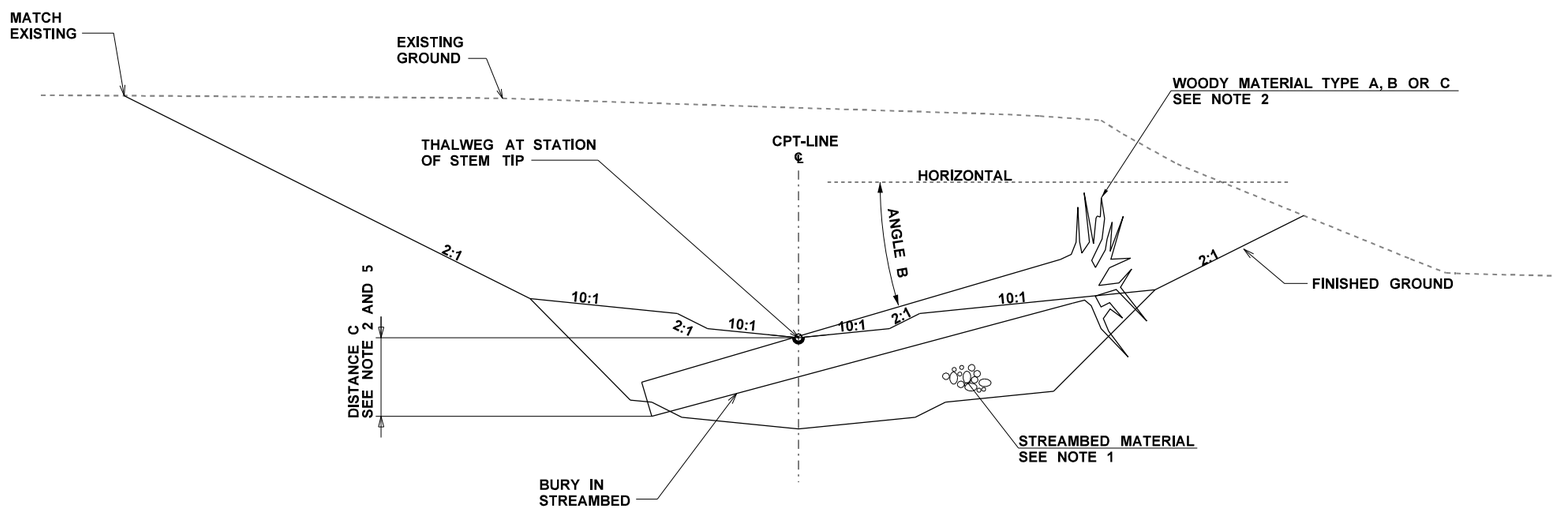
STREAM DETAILS

Plot 2
PLAN REF NO DE1
SHEET 23 OF 48 SHEETS



WOODY MATERIAL TYPE A, B OR C - STEM TIP IN CHANNEL

(NOT TO SCALE)



SECTION A-A
(NOT TO SCALE)

NOTES:

1. SEE SPECIAL PROVISIONS "WATER CROSSINGS."
2. SEE WOODY MATERIAL TABLE ON SHEET CR3 FOR LOG TYPE, ANGLE A, ANGLE B, AND DISTANCE C.
3. ANGLE "A" IS MEASURED COUNTER CLOCKWISE FROM THE STREAM CENTERLINE TO THE LOG CENTERLINE AT THE STEM TIP.
4. ANGLE "B" IS MEASURED FROM HORIZONTAL AS SHOWN ON SHEETS DE2 AND DE3. A POSITIVE ANGLE "B" VALUE INDICATES THAT THE ELEVATION OF THE LOG END FURTHEST FROM MAIN CHANNEL IS HIGHER THAN THE LOG END NEAREST TO THE MAIN CHANNEL. A NEGATIVE "B" VALUE INDICATES THAT THE ELEVATION OF THE LOG END FURTHEST FROM THE MAIN CHANNEL IS LOWER THAN THE LOG END NEAREST TO THE MAIN CHANNEL.
5. A NEGATIVE "C" VALUE INDICATES DEPTH BENEATH THALWEG. A POSITIVE "C" VALUE INDICATES DEPTH ABOVE THALWEG.
6. LOCATIONS AND ORIENTATION OF STREAMBED FEATURES (WOODY MATERIAL, COARSE BANDS, SPAWNING BANDS, LOW FLOW CHANNEL, AND SCOUR POOLS) ARE APPROXIMATE AND SHALL BE STAKED PER PLAN BY THE CONTRACTOR AND APPROVED BY THE ENGINEER. FINAL LOCATION AND ORIENTATION OF THESE STREAMBED FEATURES SHALL BE DIRECTED BY THE ENGINEER.

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DESIGNED BY	A. MILLER						
ENTERED BY	S. CROSIER				CONTRACT NO.		LOCATION NO.
CHECKED BY	T. NABOURS						
PROJ. ENGR.	S. BEIER						
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY			

P.E. STAMP BOX DATE

JULIE HEILMAN STATE OF WASHINGTON 41819 REGISTERED PROFESSIONAL ENGINEER

P.E. STAMP BOX DATE

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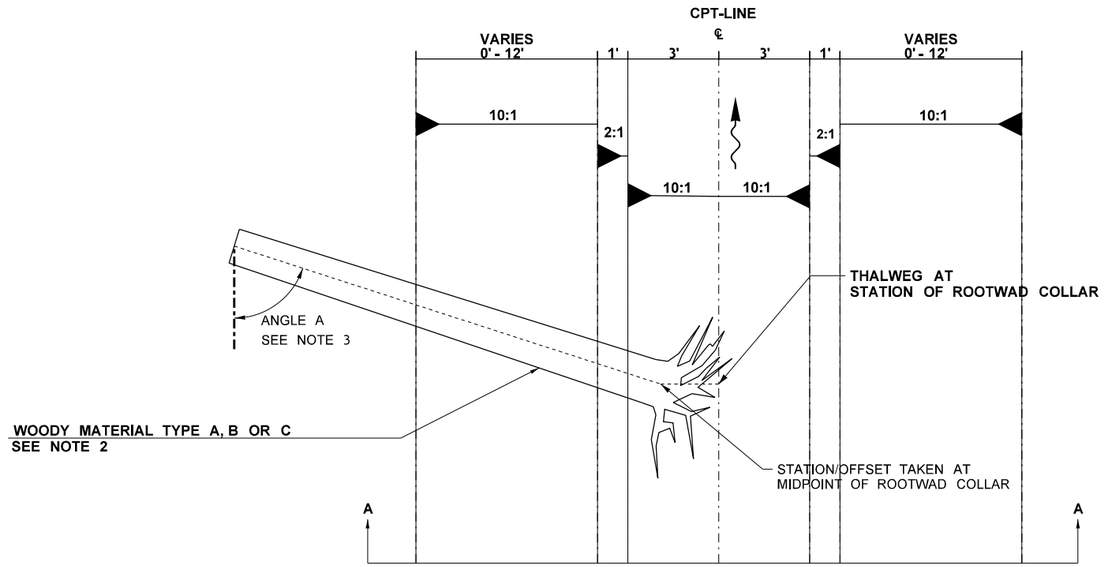
SR 534
UNNAMED TRIBUTARY TO CARPENTER CR
FISH PASSAGE

STREAM DETAILS

Plot 3

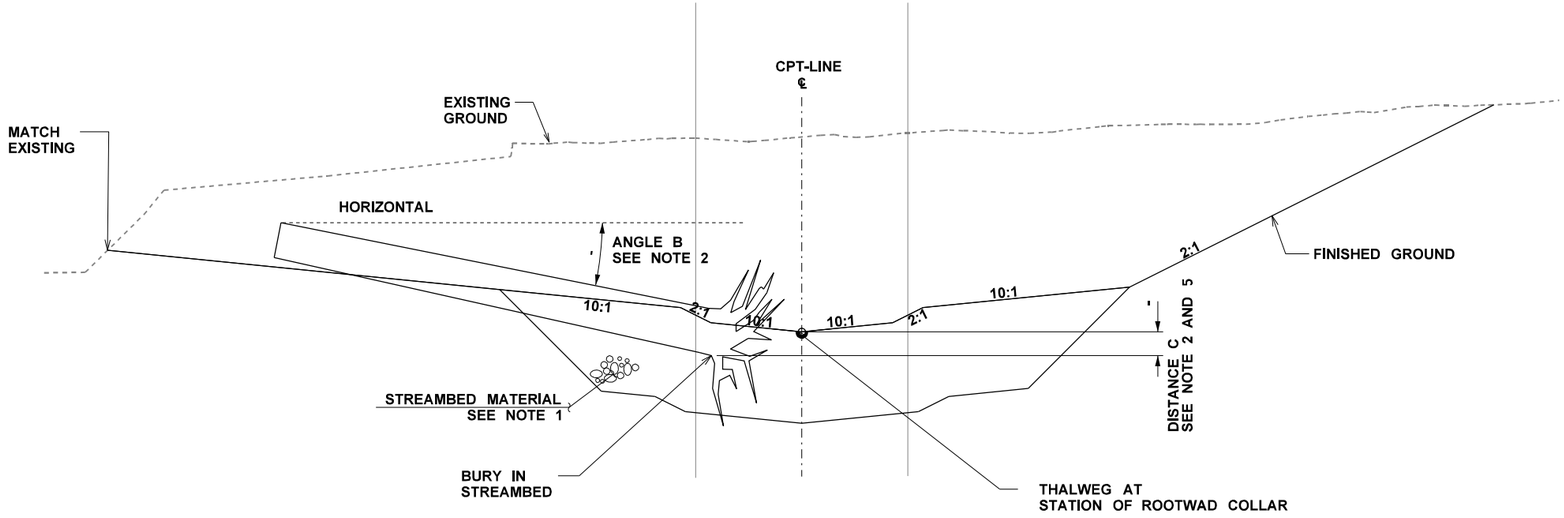
PLAN REF NO DE2

SHEET 24 OF 48 SHEETS



WOODY MATERIAL TYPE A, B OR C - ROOTWAD IN CHANNEL

(NOT TO SCALE)



SECTION A-A
(NOT TO SCALE)

NOTES:

1. SEE SPECIAL PROVISIONS "WATER CROSSINGS."
2. SEE WOODY MATERIAL TABLE ON SHEET CR3 FOR LOG TYPE, ANGLE A, ANGLE B, AND DISTANCE C.
3. ANGLE "A" IS MEASURED COUNTER CLOCKWISE FROM THE STREAM CENTERLINE TO THE LOG CENTERLINE AT THE STEM TIP.
4. ANGLE "B" IS MEASURED FROM HORIZONTAL AS SHOWN ON SHEETS DE2 AND DE3. A POSITIVE ANGLE "B" VALUE INDICATES THAT THE ELEVATION OF THE LOG END FURTHEST FROM MAIN CHANNEL IS HIGHER THAN THE LOG END NEAREST TO THE MAIN CHANNEL. A NEGATIVE "B" VALUE INDICATES THAT THE ELEVATION OF THE LOG END FURTHEST FROM THE MAIN CHANNEL IS LOWER THAN THE LOG END NEAREST TO THE MAIN CHANNEL.
5. A NEGATIVE "C" VALUE INDICATES DEPTH BENEATH THALWEG. A POSITIVE "C" VALUE INDICATES DEPTH ABOVE THALWEG.
6. LOCATIONS AND ORIENTATION OF STREAMBED FEATURES (WOODY MATERIAL, COARSE BANDS, SPAWNING BANDS, LOW FLOW CHANNEL, AND SCOUR POOLS) ARE APPROXIMATE AND SHALL BE STAKED PER PLAN BY THE CONTRACTOR AND APPROVED BY THE ENGINEER. FINAL LOCATION AND ORIENTATION OF THESE STREAMBED FEATURES SHALL BE DIRECTED BY THE ENGINEER.

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DESIGNED BY	A. MILLER				JOB NUMBER 22A021	
ENTERED BY	S. CROSIER					
CHECKED BY	T. NABOURS				CONTRACT NO.	LOCATION NO.
PROJ. ENGR.	S. BEIER					
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY		

P.E. STAMP BOX DATE

JULIE HEILMAN STATE OF WASHINGTON 41819 REGISTERED PROFESSIONAL ENGINEER

P.E. STAMP BOX DATE

Washington State Department of Transportation

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SR 534
UNNAMED TRIBUTARY TO CARPENTER CR
FISH PASSAGE

STREAM DETAILS

Plot 4

PLAN REF NO DE3

SHEET 25 OF 48 SHEETS

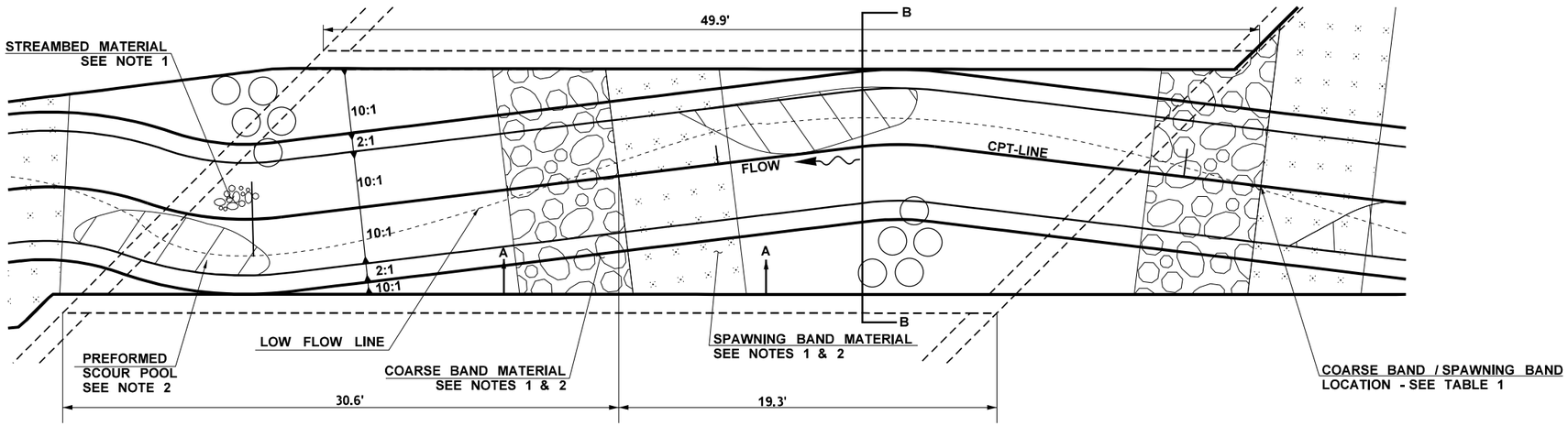
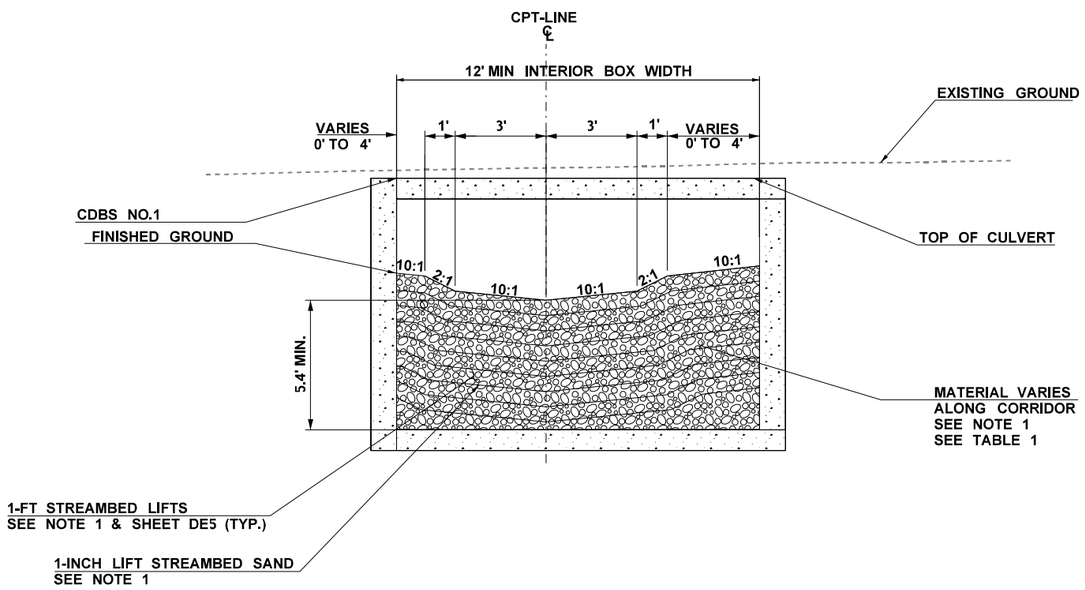
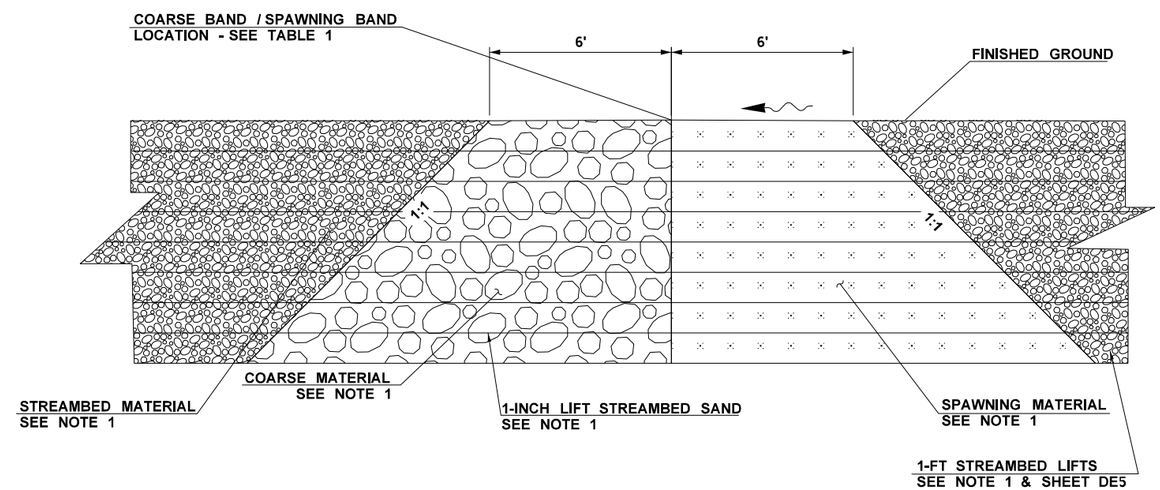


TABLE 1:
COARSE BAND / SPAWNING BAND LOCATION
CPT-LINE 11+83.66
CPT-LINE 12+19.66
CPT-LINE 12+54.13
CPT-LINE 12+91.10
CPT-LINE 13+29.76
CPT-LINE 13+66.88
CPT-LINE 14+06.91
CPT-LINE 16+15.10
CPT-LINE 16+52.35
CPT-LINE 16+89.60
CPT-LINE 17+26.84
CPT-LINE 17+64.09
CPT-LINE 18+10.47



UNNAMED TRIBUTARY TO CARPENTER CREEK
TYPICAL CULVERT SECTION

NOT TO SCALE
SECTION B-B



COARSE BAND AND SPAWNING BAND DETAIL

SECTION A-A
NOT TO SCALE

NOTE:

1. SEE SPECIAL PROVISIONS "WATER CROSSINGS". SEE SHEET DE5 FOR STREAMBED MATERIAL PLACEMENT DETAIL
2. LOCATIONS AND ORIENTATIONS OF STREAMBED FEATURES (WOODY MATERIAL, COARSE BANDS, SPAWNING BANDS, LOW FLOW CHANNEL AND SCOUR POOLS) ARE APPROXIMATE AND SHALL BE STAKED PER PLAN BY THE CONTRACTOR AND APPROVED BY THE ENGINEER. FINAL LOCATION AND ORIENTATION OF THESE STREAMBED FEATURES SHALL BE DIRECTED BY THE ENGINEER.

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DATE	10/4/2022
PLOTTED BY	AudarJun
DESIGNED BY	A. MILLER
ENTERED BY	S. CROSIER
CHECKED BY	T. NABOURS
PROJ. ENGR.	S. BEIER
REGIONAL ADM.	B. NIELSEN

REVISION | DATE | BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER 22A021		
CONTRACT NO.		LOCATION NO.

P.E. STAMP BOX — DATE

JULIE HEILMAN — STATE OF WASHINGTON — 41819 — REGISTERED PROFESSIONAL ENGINEER — DATE — P.E. STAMP BOX

Washington State Department of Transportation

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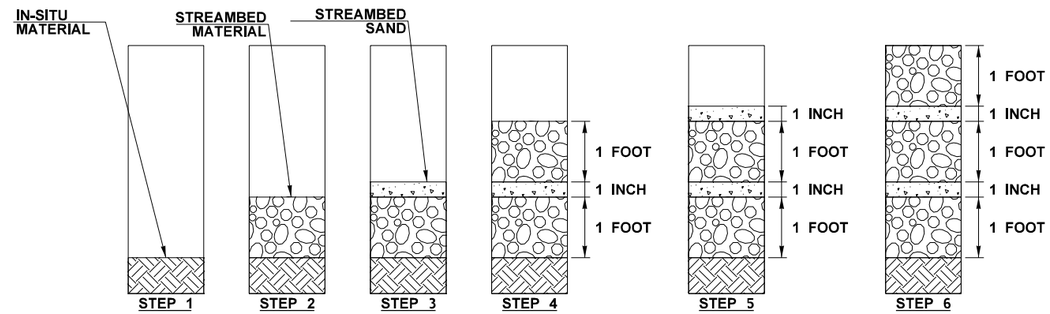
UNNAMED TRIBUTARY TO CARPENTER CR
FISH PASSAGE

STREAM DETAILS

Plot 5
PLAN REF NO DE4
SHEET 26 OF 48 SHEETS



STREAMBED CHANNEL PREPARATION

STEP 1

EXCAVATE CHANNEL TO ACCOMODATE STREAMBED MATERIAL.

STEP 2

PLACE 1 FOOT LIFT OF STREAMBED MATERIAL.

STEP 3

PLACE 1 INCH OF STREAMBED SAND UNIFORMLY OVER STREAMBED MATERIAL. APPLY WATER TO STREAMBED SAND. SEE DETAIL NOTE 2.

STEP 4

(REPEAT STEP 2), SEE NOTE 3

STEP 5

(REPEAT STEP 3), SEE NOTE 3

STEP 6

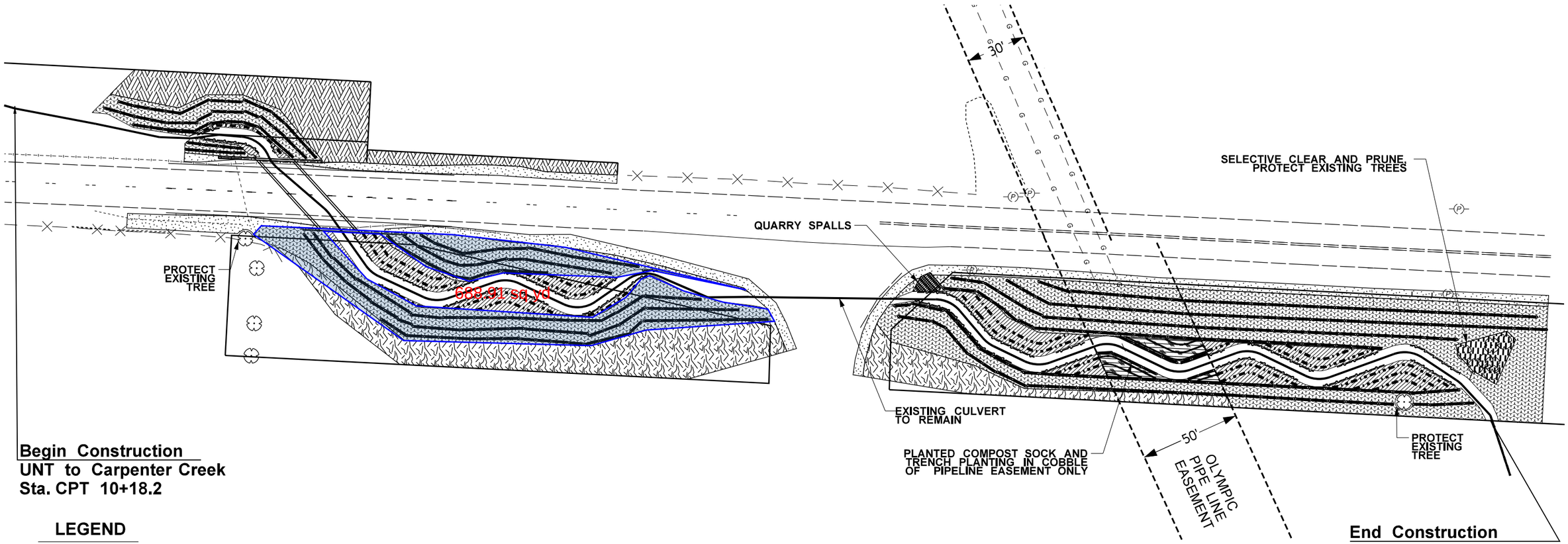
PLACE REMAINING 1 FOOT LIFT OF STREAMBED MATERIAL GRADE AS NOTED BELOW.

STREAMBED MATERIAL PLACEMENT - SEQUENCE OF WORK

NOT TO SCALE

DETAIL NOTES:

1. SLASH FROM THE TREES SHALL BE INCORPORATED INTO STREAMBED MIX AS DIRECTED BY ENGINEER.
2. APPLY WATER TO STREAMBED SAND LAYERS TO FACILITATE FILLING INTERSTITIAL VOIDS. SEE SPECIAL PROVISIONS "WATER CROSSINGS" FOR MORE DETAILS.
3. STEPS 2 AND 3 SHALL BE REPEATED AS NECESSARY FOR PLACEMENT OF STREAMBED MATERIAL, COARSE BANDS, AND SPAWNING BANDS TO FULL DEPTH AS DEPICTED ON SHEET STP1.



LEGEND

- WSDOT RIGHT OF WAY
- CONSTRUCTION EASEMENT
- EXISTING EDGE OF PAVEMENT
- SAVE AND PROTECT EXISTING TREES
- EXISTING TREE TO BE REMOVED
- EXISTING FENCE
- HVS — HVS — HIGH VISIBILITY SILT FENCE
- HVF — HVF — HIGH VISIBILITY FENCE
- CG — CG - CLEAR AND GRUB LINE
- G — G — GAS LINE
- SCP — SELECTIVE CLEARING AND PRUNING
- WB EXISTING WETLAND BOUNDARY

PLANTING AREA SOIL PREPARATION		
SYMBOL	ITEM	QUANTITY
	COMPOST SOCK FOR SOIL STABILIZATION SEE NOTE #4	3025 LF
SYMBOL	ITEM	QUANTITY
	SOIL AMENDMENT - 3 IN. DEPTH	268 SY
	BARK OR WOOD CHIP MULCH - 3 IN. DEPTH	268 SY
SELECTIVE CLEAR AND PRUNE AREAS (SEE SPECIAL PROVISIONS)		
SYMBOL	ITEM	QUANTITY
	BARK OR WOOD CHIP MULCH RINGS - 3 IN. DEPTH	6 EA
	SOIL AMENDMENT - 3 IN. DEPTH	6 EA
SYMBOL	ITEM	QUANTITY
SEEDING, FERTILIZING AND MULCHING		
	FINE COMPOST - 3 IN. DEPTH (A) DAMP NATIVE SEED MIX	363 SY
	FINE COMPOST - 3 IN. DEPTH (B) EROSION CONTROL SEED MIX	469 SY
	FINE COMPOST - 3 IN. DEPTH (C) WET NATIVE SEED MIX	630 SY

RESTORATION BIOENGINEERING		
SYMBOL	ITEM	QUANTITY
BRUSH LAYER LIVE BRANCHES PER 8-02.3(15)C - 4' O.C.		
	RED-OSIER DOGWOOD	868 LF
	SITKA WILLOW	
SYMBOL	ITEM	QUANTITY
LIVE FASCINES PER 8-02.3(15)A		
	SITKA WILLOW	632 LF
	SALMONBERRY	
SYMBOL	ITEM	QUANTITY
TRENCH PLANTING - PIPE LINE EASMENT ONLY - 18" O.C.		158 LF
	DOUGLAS SPIRAEA	70
	SALMONBERRY	70
	PACIFIC NINEBARK	70
SYMBOL	ITEM	QUANTITY
PLANTED COMPOST SOCK - PIPE LINE EASMENTS ONLY - 18" O.C.		
	SLOUGH SEDGE	63
	SMALL FRUITED BULRUSH	63

SOIL PREPARATION NOTES:

1. PRESERVE AND PROTECT EXISTING DESIRABLE VEGETATION IN ACCORDANCE WITH SECTION 1-07.16(2). NO DISTURBANCE TO ANY VEGETATION ALONG THE PERIMETER OF THE SITE.
2. SEED ALL DISTURBED AREAS NOT OTHERWISE SHOWN AS PLANTED OR SEEDED IN THE PLANTING PLANS, PER SECTION 8-01.3(2).
3. DO NOT INCORPORATE SOIL AMENDMENT UNDER DRIP LINE OF EXISTING TREES TO BE SAVED AND PROTECTED.
4. INSTALL COMPOST SOCKS ALONG CONTOURS IN LOCATIONS AS SHOWN. LAYOUT OF COMPOST SOCKS SHALL BE APPROVED BY THE ENGINEER PRIOR TO STAKING. SEE DETAIL ON SHEET SPPD4 AND STANDARD PLAN I-30.60-01.
5. SEE SHEETS SPPD1 - SPPD5 FOR BRUSH LAYER, COMPOST SOCK AND LIVE FASCINE DETAILS.
6. LIVE FASCINES TO BE FIT TO ACCOMODATE LWM WHERE THEY OVERLAP AND ARE TO BE PLACED AT OR SLIGHTLY ABOVE THE ORDINARY HIGH WATER MARK (OHWM), LOCATION TO BE FIELD VERIFIED BY ENGINEER PRIOR TO PLANTING.

N

0 25 50
SCALE IN FEET

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TIME	8:21:29 AM
DATE	10/5/2022
PLOTTED BY	ayalap
DESIGNED BY	H. MACKAY
ENTERED BY	H. MACKAY
CHECKED BY	L. JUNGBLUTH
PROJ. ENGR.	S. BEIER
REGIONAL ADM.	B. NIELSEN

REVISION | DATE | BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER 22A021		
CONTRACT NO.		LOCATION NO.

STATE OF WASHINGTON
LINDSEY A. JUNGBLUTH
NO 1483 EXP. 11/05/2023
LICENSED LANDSCAPE ARCHITECT

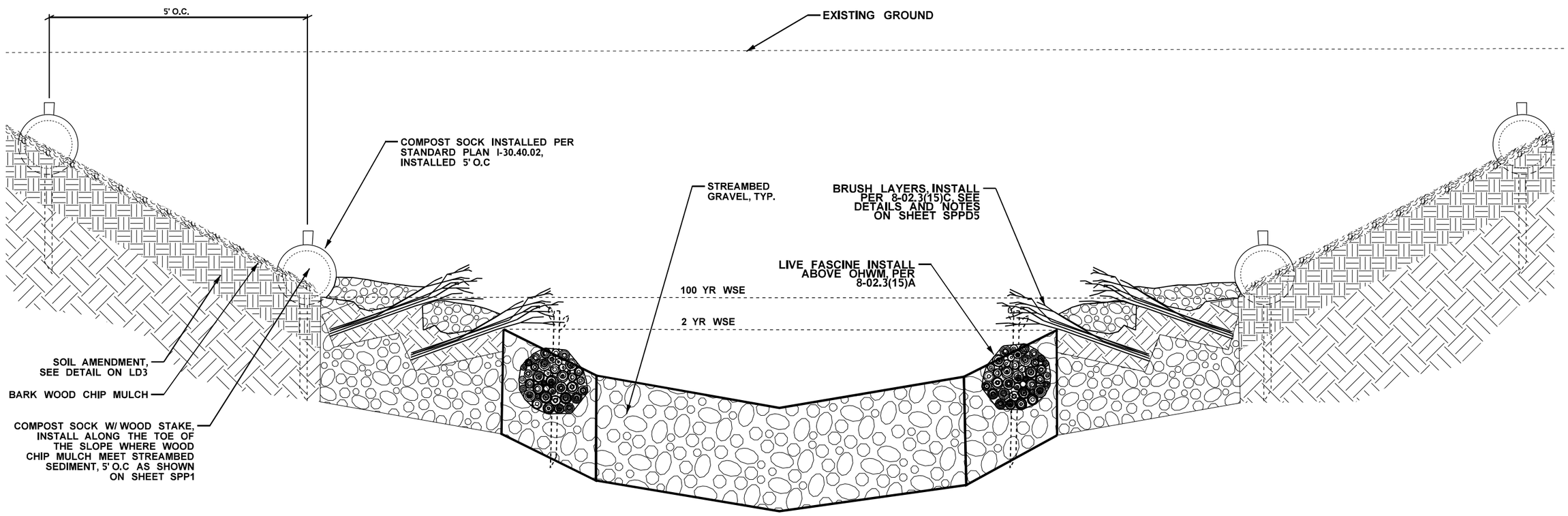
SEE CT1

Washington State Department of Transportation

SR 534
UNNAMED TRIBUTARY TO CARPENTER CR
FISH PASSAGE

SOIL PREPARATION PLAN

Plot 2
SPP1
SHEET 28 OF 48 SHEETS



SECTION A - TYPICAL STREAM EMBANKMENT RESTORATION

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ENTERED BY	H. MACKAY						
CHECKED BY	L.JUNGBLUTH				CONTRACT NO.		LOCATION NO.
PROJ. ENGR.	S. BEIER						
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY			

STATE OF WASHINGTON LINDSEY A. JUNGBLUTH NO. 1483 EXP. 11/05/2022 LICENSED LANDSCAPE ARCHITECT

SEE CT1

Washington State Department of Transportation

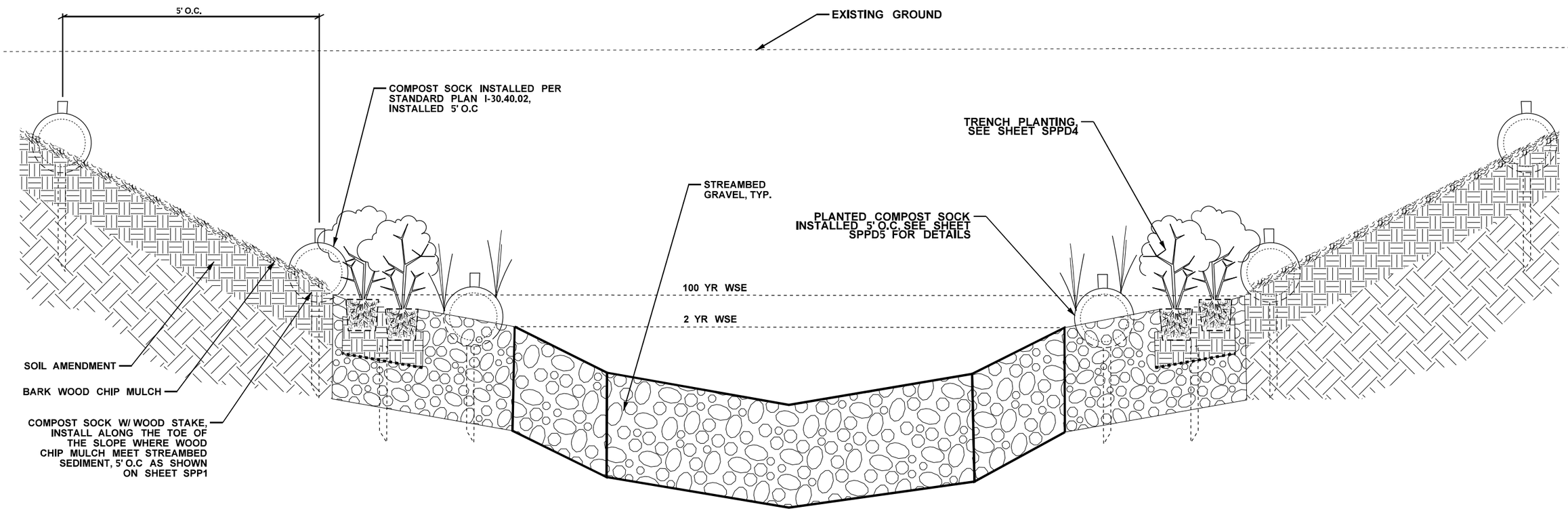
SR 534
UNNAMED TRIBUTARY TO CARPENTER CR
FISH PASSAGE

SOIL & BIOENGINEERING DETAILS

Plot 3

SPPD1

SHEET 29 OF 48 SHEETS



SECTION B - PIPELINE EASEMENT STREAM EMBANKMENT RESTORATION

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TIME	8:23:28 AM				REGION NO. 10	STATE WASH	FED.AID PROJ.NO.
DATE	10/5/2022						
PLOTTED BY	ayalap						
DESIGNED BY	H. MACKAY				JOB NUMBER 22A021		
ENTERED BY	H.MACKAY						
CHECKED BY	L. JUNGBLUTH				CONTRACT NO.		LOCATION NO.
PROJ. ENGR.	S. BEIER						
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY			

STATE OF WASHINGTON
LINDSEY A. JUNGBLUTH
NO. 1483 EXP. 11/05/2022
LICENSED LANDSCAPE ARCHITECT

SEE CT1

Washington State Department of Transportation

SR 534
UNNAMED TRIBUTARY TO CARPENTER CR
FISH PASSAGE

SOIL & BIOENGINEERING DETAILS

Plot 4

SPPD2

SHEET 30 OF 48 SHEETS

PLANT MATERIAL LIST

COMMON NAME	BOTANICAL NAME	QUANTITY	SIZE	ROOT CONDITION	REMARKS
BRUSH LAYER LIVE BRANCHES					
RED-OSIER DOGWOOD***	CORNUS STOLONIFERA	50%	60 IN HT.	LIVE CUTTING	9-14.7(1), LIVE CUTTING
SITKA WILLOW	SALIX SITCHENSIS	50%	60 IN HT.	LIVE CUTTING	9-14.7(1), LIVE CUTTING
LIVE FASCINES					
SITKA WILLOW	SALIX SITCHENSIS	70%		12" DIAM. FASCINE	SECTION 8-02.3(15)A, 9-14.7(1), LIVE CUTTING
SALMONBERRY***	RUBUS SPECTABILIS	30%		12" DIAM. FASCINE	SECTION 8-02.3(15)A, 9-14.7(1), LIVE CUTTING
PLANTED COMPOST SOCK					
SLOUGH SEDGE**	CAREX OBNUPTA	63		3-4" DIAM. PLUG	SECTION 9-14.7(2), FULL CONTAINER
SMALL FRUITED BULRUSH*	ATHYRIUM FILIX-FEMINA	63		3-4" DIAM. PLUG	SECTION 9-14.7(2), FULL CONTAINER
TRENCH PLANTING					
SALMONBERRY***	RUBUS SPECTABILIS	70	12 IN HT.	NO. 1 CONT.	SECTION 9-14.7(2), THREE CANE MIN.
DOUGLAS SPIREA**	SPIRAEA DOUGLASII	70	12 IN HT.	NO. 1 CONT.	SECTION 9-14.7(2), THREE STEM MIN.
PACIFIC NINEBARK***	PYSOCARPUS CAPITATUS	70	12 IN HT.	NO. 1 CONT.	SECTION 9-14.7(2), THREE STEM MIN.

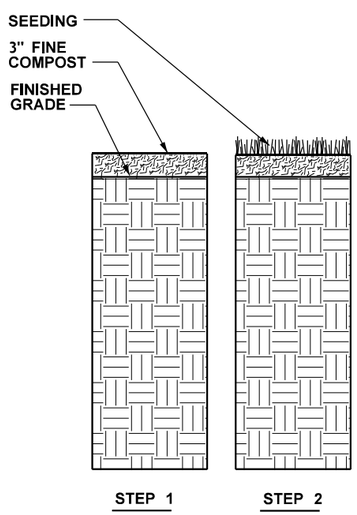
PLANT MATERIAL SETBACK CHART

THIS CHART SUPPLEMENTS SECTION 8.02.3(7) OF THE STANDARD SPECIFICATIONS. SETBACKS APPLY UNLESS OTHERWISE ADJUSTED BY ENGINEER DURING PLANT STAKING OR LAYOUT. DISTANCES BELOW ARE TO THE STEM OR TRUNK OF THE PLANT BEING INSTALLED.

	GUARDRAIL BARRIER	EDGE OF ROADWAY	EXISTING TREE TRUNK	OVERHEAD POWER	DRAINAGE STRUCTURE	CULVERT WALLS
GROUNDCOVER *	5'	5'	5'	-	5'	3'
SMALL SHRUB **	5'	10'	5'	-	5'	5'
TALL SHRUB ***	10'	15'	10'	10'	10'	10'
DECIDUOUS TREE	15'	20'	15'	20'	10'	15'
EVERGREEN TREE	15'	20'	15'	20'	10'	15'

GENERAL NOTES:

1. IF A CONFLICT OCCURS BETWEEN THE AMERICAN STANDARD FOR NURSERY STOCK AND THESE SPECIFICATIONS THEN THESE SPECIFICATIONS SHALL APPLY.
2. SPECIFICATIONS FOR SIZE AND CONDITION ARE MINIMUM.
3. ALL PLANT MATERIALS SHALL BE NURSERY GROWN STOCK.



PLANTING AREA PREPARATION (SEE SPECIAL PROVISIONS)

STEP 1

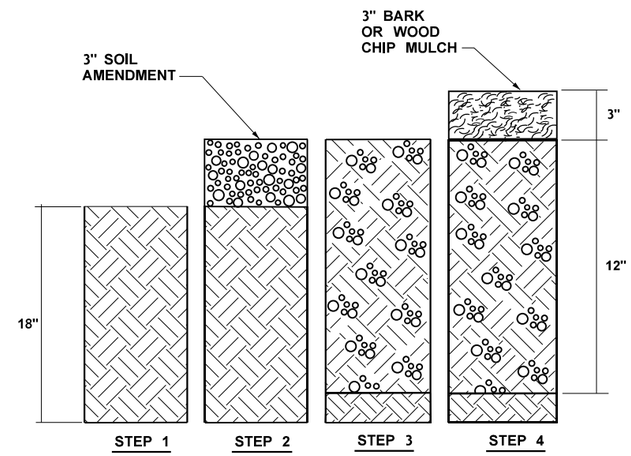
PLACE 3" FINE COMPOST ACCORDING TO THE PLANS.

STEP 2

INSTALL SEEDING, FERTILIZING AND MULCHING ACCORDING TO THE PLANS AND SPECIAL PROVISIONS.

SEEDING AREA SOIL PREPARATION

SECTION VIEW NOT TO SCALE



PLANTING AREA PREPARATION (SEE SECTION 8-02.3(5) IN THE SPECIAL PROVISIONS)

STEP 1

DECOMPACT SOIL TO A DEPTH OF 18" ACCORDING TO SECTION 8-02.3(5)C

STEP 2

PLACE 3" SOIL AMENDMENT ACCORDING TO SECTION 8-02.3(6)A

STEP 3

INCORPORATE SOIL AMENDMENT TO 12" DEPTH ACCORDING TO SECTION 8-02.3(5)C, SOIL AMENDMENT,

STEP 4

INSTALL BARK OR WOOD CHIP MULCH 3" DEEP ACCORDING TO 9-14.5(3).

PLANTING AREA SOIL PREPARATION - SEQUENCE OF WORK

SECTION VIEW NOT TO SCALE

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TIME	8:23:41 AM				REGION NO. 10	STATE WASH	FED.AID PROJ.NO.
DATE	10/5/2022						
PLOTTED BY	ayalap						
DESIGNED BY	H. MACKAY				JOB NUMBER 22A021		
ENTERED BY	H.MACKAY						
CHECKED BY	L.JUNGBLUTH				CONTRACT NO.		LOCATION NO.
PROJ. ENGR.	S. BEIER						
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY			

STATE OF WASHINGTON LINDSEY A. JUNGBLUTH NO 1483 EXP 11/05/2023 LICENSED LANDSCAPE ARCHITECT

SEE CT1

Washington State Department of Transportation

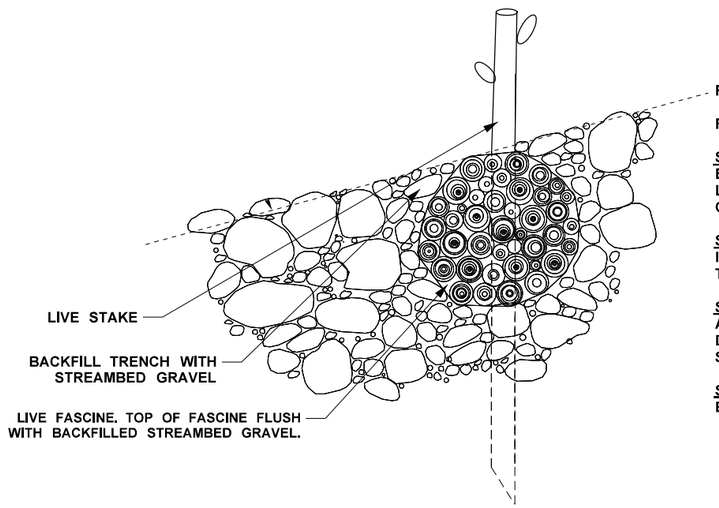
SR 534
UNNAMED TRIBUTARY TO CARPENTER CR
FISH PASSAGE

SOIL & BIOENGINEERING DETAILS

Plot 5

SPPD3

SHEET 31 OF 48 SHEETS



REFERENCE STANDARD PLAN - LIVE FASCINES

FASCINE INSTALLATION - SEQUENCE OF WORK

STEP 1
EXCAVATE TRENCH DEEP ENOUGH TO BURY LIVE FASCINE FLUSH WITH STREAMBED GRAVEL.

STEP 2
INSTALL FASCINE IN THE BOTTOM OF THE TRENCH.

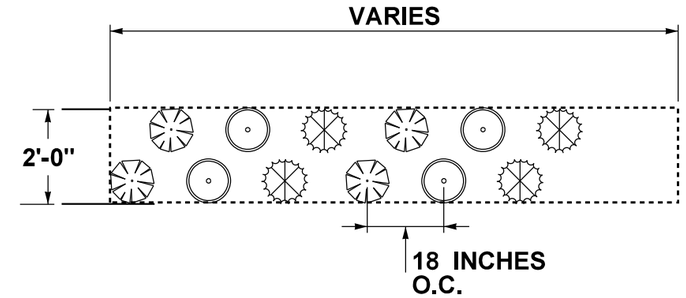
STEP 3
ANCHOR FASCINES WITH 3' LONG, LIVE STAKES, DRIVEN A MINIMUM OF 2' INTO THE GROUND. SPACED 3' O.C. MIN.

STEP 4
BACKFILL TRENCH WITH STREAMBED GRAVEL.

LIVE FASCINE - INSTALLATION AND SEQUENCE OF WORK

SECTION VIEW

NOT TO SCALE



TRENCH PLANTING PLAN

NOT TO SCALE

TRENCH INSTALLATION AND PLANTING NOTES:

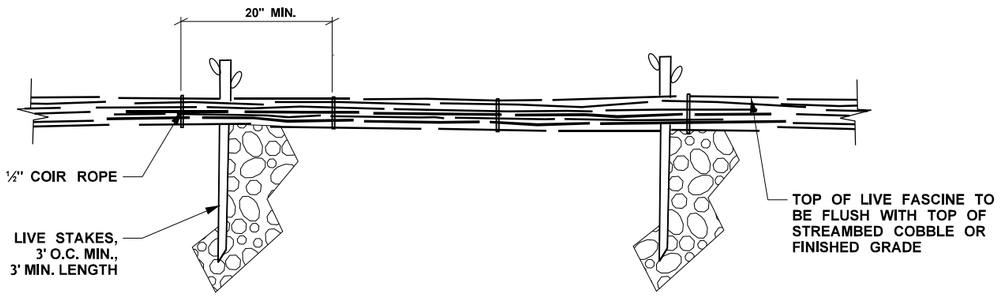
1. WHERE PLANT MATERIAL IS TO BE INSTALLED, EXCAVATE TRENCH MIN. 24 INCHES WIDE AND 15 INCHES DEEP.

2. LINE TRENCH WITH BIODEGRADEABLE EROSION CONTROL BLANKET AND STAKE EVERY 3 FEET WITH 2 x 4 x 24 INCHES WOOD STAKES.

3. PLACE MIN. 12 INCHES OF TOPSOIL TYPE A.

4. INSTALL PLANTS, SEE SPPD3 FOR SPECIES AND SIZE.

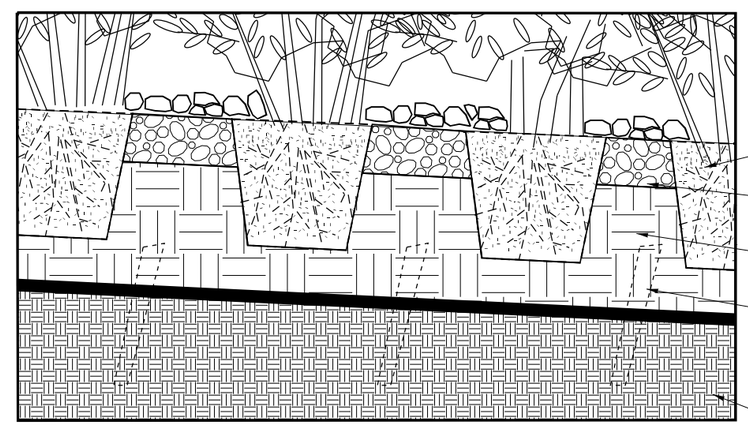
5. INSTALL 3 INCHES OF STREAMBED MATERIAL.



LIVE FASCINE - ELEVATION

SECTION VIEW

NOT TO SCALE



CONTAINER PLANT

3 INCHES STREAMBED MATERIAL

12 INCHES MINIMUM TOPSOIL TYPE A

LINE TRENCH WITH BIODEGRADEABLE EROSION CONTROL BLANKET, STAKE EVERY 3 FEET WITH 2X4X24" WOOD STAKES.

EXISTING SUBGRADE

TRENCH PLANTING SECTION

NOT TO SCALE

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TIME	8:23:56 AM				REGION NO. 10	STATE WASH	FED.AID PROJ.NO.
DATE	10/5/2022						
PLOTTED BY	ayalap				JOB NUMBER 22A021		
DESIGNED BY	H. MACKAY						
ENTERED BY	H. MACKAY						
CHECKED BY	L.JUNGBLUTH				CONTRACT NO.		LOCATION NO.
PROJ. ENGR.	S. BEIER						
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY			

STATE OF WASHINGTON LINDSEY A. JUNGBLUTH NO. 1483 EXP. 11/05/2022 LICENSED LANDSCAPE ARCHITECT

SEE CT1

Washington State Department of Transportation

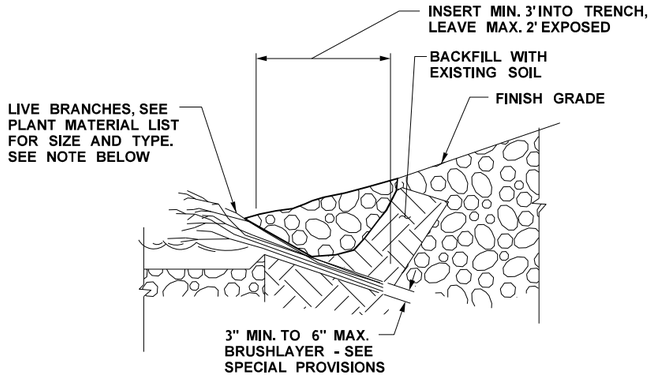
SR 534
UNNAMED TRIBUTARY TO CARPENTER CR
FISH PASSAGE

SOIL & BIOENGINEERING DETAILS

Plot 6

SPPD4

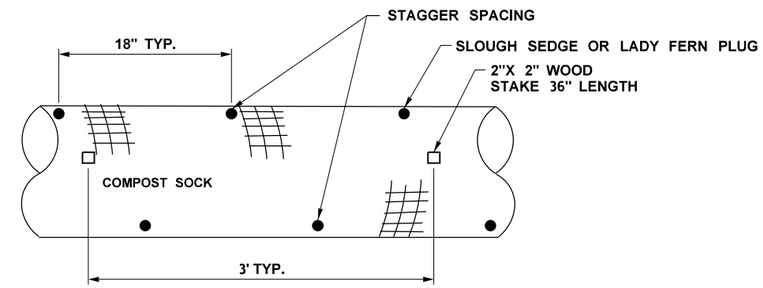
SHEET 32 OF 48 SHEETS



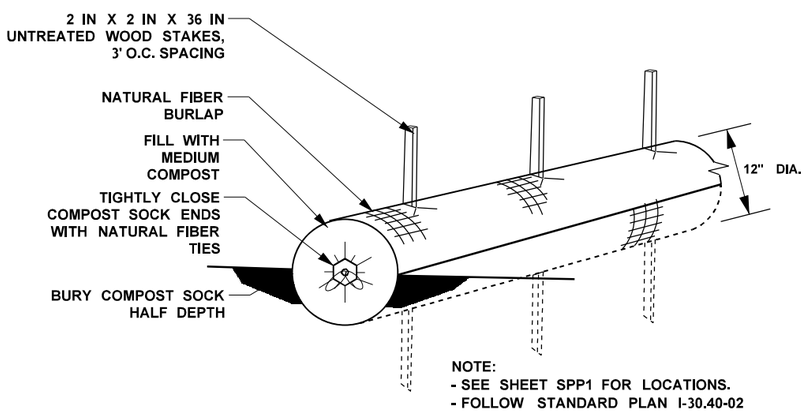
NOTE:
INSTALL PER 8-02.3(15)C. INSTALL LIVE BRANCHES IN TRENCH IN CONTINUOUS ROW AS SHOWN ON PLANS.

BRUSHLAYER INSTALLATION

NOT TO SCALE



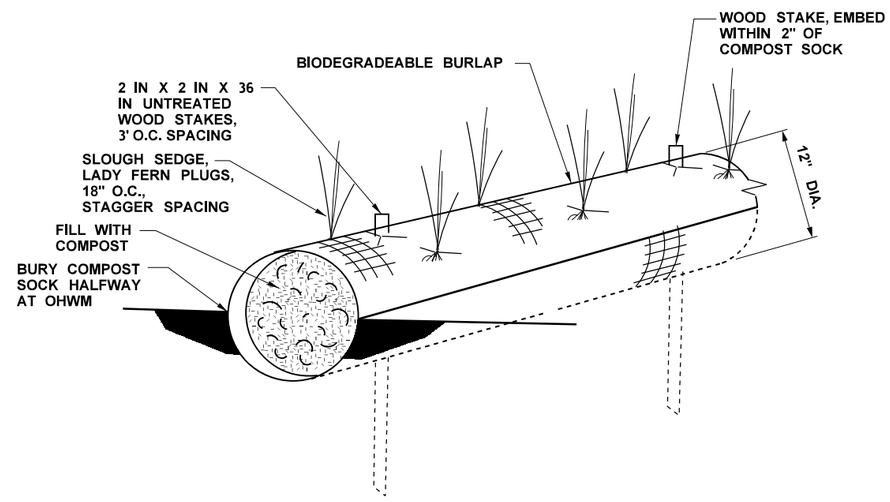
PLAN VIEW



NOTE:
- SEE SHEET SPP1 FOR LOCATIONS.
- FOLLOW STANDARD PLAN I-30.40-02

COMPOST SOCK FOR SOIL STABILIZATION

NOT TO SCALE



PLANTED COMPOST SOCK

NOT TO SCALE

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DATE	10/5/2022						
PLOTTED BY	ayalap				JOB NUMBER 22A021		
DESIGNED BY	H. MACKAY						
ENTERED BY	H. MACKAY				CONTRACT NO.		LOCATION NO.
CHECKED BY	L.JUNGBLUTH						
PROJ. ENGR.	S. BEIER						
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY			

STATE OF WASHINGTON LINDSEY A. JUNGBLUTH NO 1483 EXP 11/05/2023 LICENSED LANDSCAPE ARCHITECT

SEE CT1

Washington State Department of Transportation

SR 534
UNNAMED TRIBUTARY TO CARPENTER CR
FISH PASSAGE

SOIL & BIOENGINEERING DETAILS

Plot 7
PLAN REF NO SPPD5
SHEET 33 OF 48 SHEETS

QUANTITY TABULATION

NOTE:
THE FIRST NUMBER OF THE "CODE" BELOW REFERS TO THE SHEET NO. OR THE SHEET REFERENCE NO. SHOWING THE CONSTRUCTION FEATURE.

THE SECOND NUMBER REFERS TO THE CONSTRUCTION FEATURE FOUND ON THAT SHEET.

CODE	LOCATION ↓ \ UNIT OF MEASURE →	PLANING BITUMINOUS PAVEMENT		BEAM GUARDRAIL TYPE 31 - 9 FT. LONG POST	BEAM GUARDRAIL TYPE 31	BEAM GUARDRAIL TRANSITION SECTION TYPE 24	BEAM GUARDRAIL TYPE 31 NON-FLARED TERMINAL		PAINT LINE	PLASTIC DRAINAGE MARKING	RAISED PAVEMENT MARKER TYPE 2						SEE GENERAL NOTES
				L.F.	L.F.	EACH	EACH		L.F.	EACH	HUND						
PV1-1	C 114+52.5 (14.1' LT) TO C 114+89.4 (15.0' LT)			25		1											1, 2, 3, 5, 6
PV1-2	C 115+09.1 (15.0' LT) TO C 116+06.1 (14.1' LT)				37.5	1	1										1, 2, 3, 4, 6
PV1-3	C 114+43.0 (12.9' RT) TO C 115+19.2 (15.0' RT)				25	1	1										1, 2, 3, 4, 6, 7
PV1-4	C 115+39.0 (15.0' RT) TO C 116+11.0 (14.6' RT)				12.5	1	1										1, 2, 3, 4, 6
PV1-5	C 114+44 (9.9' LT) TO C 115+87 (10.1' LT)								143								8
PV1-6	C 114+44 (0.4' LT) TO C 115+87 (0.4' LT)								143		0.03						8, 9
PV1-7	C 114+44 (10.1' RT) TO C 115+87 (9.9' RT)								143								8
PV1-8	C 115+04.2 (10.0' LT)									1							10
PV1-9	C 115+24.0 (10.0' RT)									1							10
PV1-10	C 114+44 TO C 114+69	69															
PV1-11	C 115+64 TO C 115+87	71															
	SHEET TOTAL	140		25	75	4	3		429	2	0.03						
	PROJECT TOTAL	140		25	75	4	3		429	2	0.03						

GENERAL NOTES:

1. SEE STANDARD PLAN C-20.10, BEAM GUARDRAIL TYPE 31.
2. SEE STANDARD PLAN C-20.14 BEAM GUARDRAIL (TYPE 31) PLACEMENT. BEAM GUARDRAIL PLACEMENT CASE 2-31. PLACE FACE OF GUARDRAIL AT EDGE OF PAVED SHOULDER.
3. SEE STANDARD PLAN C-25.30, BEAM GUARDRAIL (TYPE 31) TRANSITION SECTION TYPE 24 (POSTED SPEED 45MPH AND BELOW).
4. SEE STANDARD PLAN PLAN C-22.45, BEAM GUARDRAIL TYPE 31 NON-FLARED TERMINAL (POSTED SPEED 45MPH AND BELOW).
5. SEE STANDARD PLAN C-25.80, BEAM GUARDRAIL TYPE 31 TO BEAM GUARDRAIL TYPE 1 ADAPTOR.
6. SEE STANDARD PLAN C-24.10. TYPE D CONNECTION.
7. TERMINAL PAD TO BE INSTALLED PER MANUFACTURER INSTALLATION MANUAL - SEE MAX-TENSION TL-2 INSTALLATION MANUAL FROM LINDSAY TRANSPORATION SOLUTIONS.
8. SEE STANDARD PLAN M-20.10, LONGITUDINAL MARKING PATTERNS.
9. SEE STANDARD PLAN M-20.30, LONGITUDINAL MARKING SUPPLEMENT WITH RAISED PAVEMENT MARKERS.
10. SEE STANDARD PLAN M-24.60, SYMBOL MARKINGS MISCELLANEOUS.

DESIGNED BY	D. HARRIS					REGION NO.	STATE
ENTERED BY	D. HARRIS					10	WASH
CHECKED BY	A. WILLIAMS					JOB NUMBER	
PROJ. ENGR.	S. BEIER					22A021	
REGION ADM.	B. NIELSEN					CONTRACT NO.	
		DATE	DATE	REVISION	BY		

FED. AID PROJ. NO.

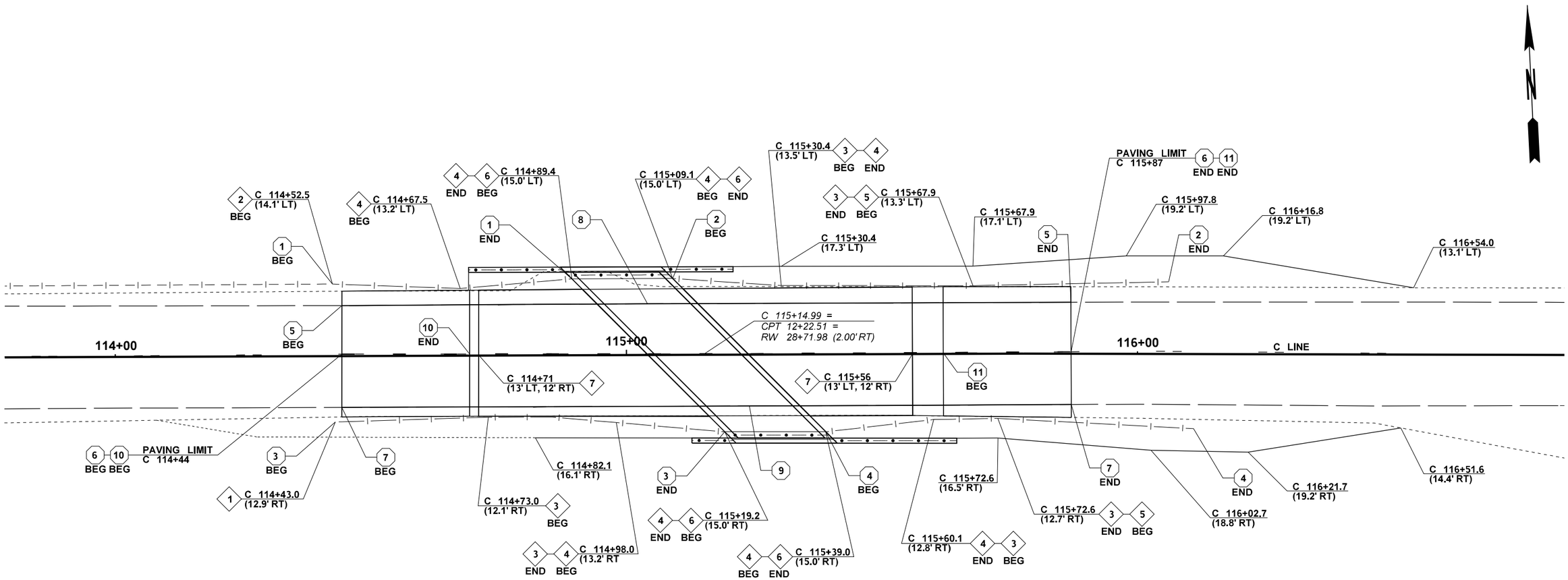
Washington State Department of Transportation

SR 534
UNNAMED TRIBUTARY TO CARPENTER CR
FISH PASSAGE

QUANTITY TABULATION

QT1

SHEET 34 OF 48 SHEETS



CONSTRUCTION NOTES

1. BEAM GUARDRAIL TYPE 31 NON-FLARED TERMINAL (MAX-TENSION TL-2)
2. BEAM GUARDRAIL TYPE 31 TO BEAM GUARDRAIL TYPE 1 ADAPTOR
3. BEAM GUARDRAIL TYPE 31
4. BEAM GUARDRAIL TRANSITION SECTION TYPE 24
5. BEAM GUARDRAIL TYPE 31 NON-FLARED TERMINAL
6. TRAFFIC BARRIER WITH BRIDGE RAILING TYPE BP-18
7. PRECAST BRIDGE APPROACH SLAB (CONTRACTOR DESIGNED)

LEGEND

15+00 CONSTRUCTION ALIGNMENT
EXISTING EDGE OF PAVEMENT
EXISTING EDGE OF EMBANKMENT
EXISTING EDGE LINE WHITE
EXISTING SKIP CENTER LINE YELLOW
EXISTING GUARDRAIL
NEW EDGE LINE WHITE
NEW SKIP CENTER LINE YELLOW
NEW EDGE OF WIDENED EMBANKMENT
NEW PAVED EDGE
NEW GUARDRAIL
NEW TRAFFIC BARRIER
CONTRACTOR DESIGNED BURIED STRUCTURE NO. 1
QUANTITY TABULATION NOTE

NOTES:

1. SAWCUTS IN THE TRAVELED WAY SHALL BE PERPENDICULAR TO TRAFFIC FLOW WITH A NEAT VERTICAL EDGE.
2. TERMINAL PADS, EXCEPT AT NOTED, SHALL BE STANDARD PLAN C-22.45.
3. GUARDRAIL TYPE 31 SHALL UTILIZE 8' OR 9' POSTS AT LOCATIONS WHERE 2.5' OF EMBANKMENT WIDENING IS NOT PROVIDED.
4. SEE SPECIALS PROVISIONS FOR CONTRACTOR DESIGNED PRECAST BRIDGE APPROACH SLAB.

0 10 20
SCALE IN FEET

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TIME	4:41:09 PM
DATE	10/4/2022
PLOTTED BY	hardoug
DESIGNED BY	D. HARRIS
ENTERED BY	D. HARRIS
CHECKED BY	A. WILLIAMS
PROJ. ENGR.	S. BEIER
REGIONAL ADM.	B. NIELSEN

REVISION | DATE | BY

REGION NO. 10 | STATE WASH | FED.AID PROJ.NO.
JOB NUMBER 22A021
CONTRACT NO. | LOCATION NO.

SPENCER T. BEIER STATE OF WASHINGTON 16005 REGISTERED PROFESSIONAL ENGINEER
SEE CT1 DATE
P.E. STAMP BOX

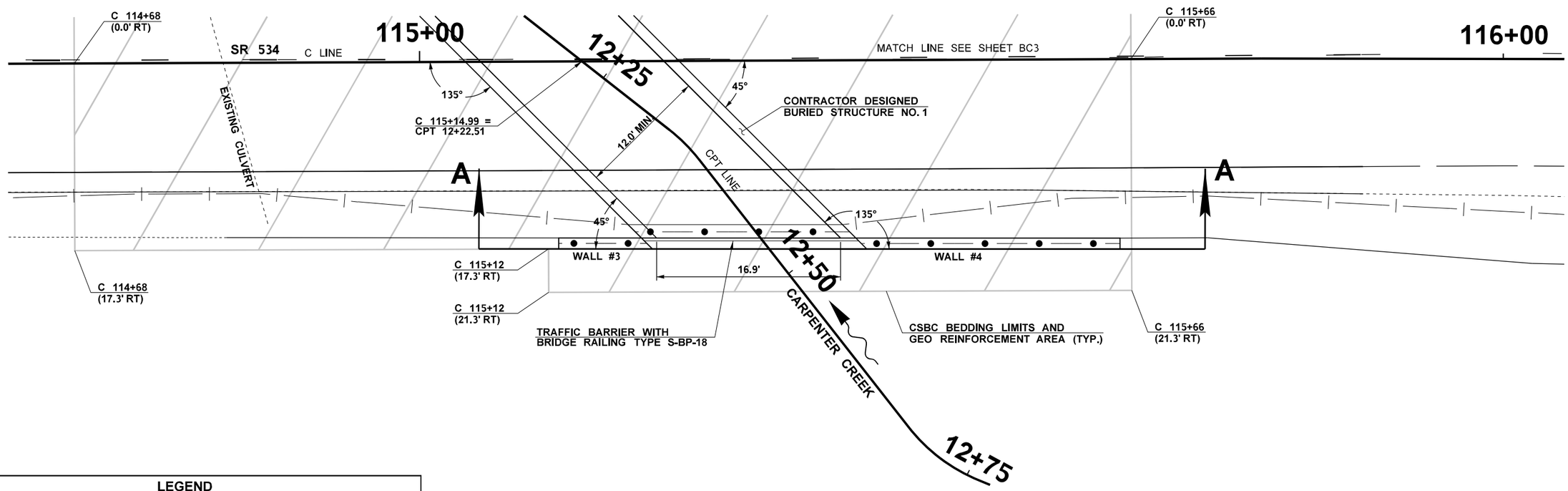
DATE
P.E. STAMP BOX

Washington State Department of Transportation

SR 534
UNNAMED TRIBUTARY TO CARPENTER CR
FISH PASSAGE

PAVING PLAN

Plot 1
PLAN REF NO PV1
SHEET 35 OF 48 SHEETS



LEGEND

- EXISTING PAVED EDGE OF ROADWAY
- EXISTING CULVERT
- NEW CONSTRUCTION ALIGNMENT
- NEW STREAM ALIGNMENT
- NEW PAVED EDGE OF ROADWAY
- NEW BRIDGE RAILING
- NEW CONTRACTOR DESIGNED BURIED STRUCTURE NO. 1
- FLOW LINE
- CSBC BEDDING LIMITS AND GEO REINFORCMENT AREA

0 5 10
SCALE IN FEET

NOTES:

1. SEE SHEET BC3 FOR NORTH END (DOWNSTREAM).
2. SEE SHEET BC2 FOR CROSS SECTION A-A.
3. SEE SHEET AL1 FOR STREAM AND ROADWAY ALIGNMENT.
4. SEE SHEET RP1 FOR CENTERLINE ROADWAY PROFILE.
5. SEE SHEET PV1 FOR TRAFFIC BARRIER AND GUARDRAIL.
6. A MINIMUM HYDRAULIC OPENING OF 12', PERPENDICULAR TO THE INSIDE OF THE STRUCTURE, SHALL BE PROVIDED.

FILE NAME	T:\412334\XL6097 SR534 Trib to Carpenter Ck FP\CAE\CAD\ContractPlans\Addendum\Addendum No. 1\SR534_155_PS_Det_Box Culvert.dgn			
TIME	1:32:16 PM			
DATE	11/9/2022			
PLOTTED BY	hardoug			
DESIGNED BY	D. HARRIS			
ENTERED BY	J. MOE			
CHECKED BY	A. WILLIAMS			
PROJ. ENGR.	S. BEIER	AD1 - REPLACEMENT SHEET	11/08/2022	DH
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER 22A021		
CONTRACT NO.		LOCATION NO.

SPENCER T. BEIER — STATE OF WASHINGTON — 36005 — REGISTERED PROFESSIONAL ENGINEER

SEE CT1
DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

Washington State
Department of Transportation

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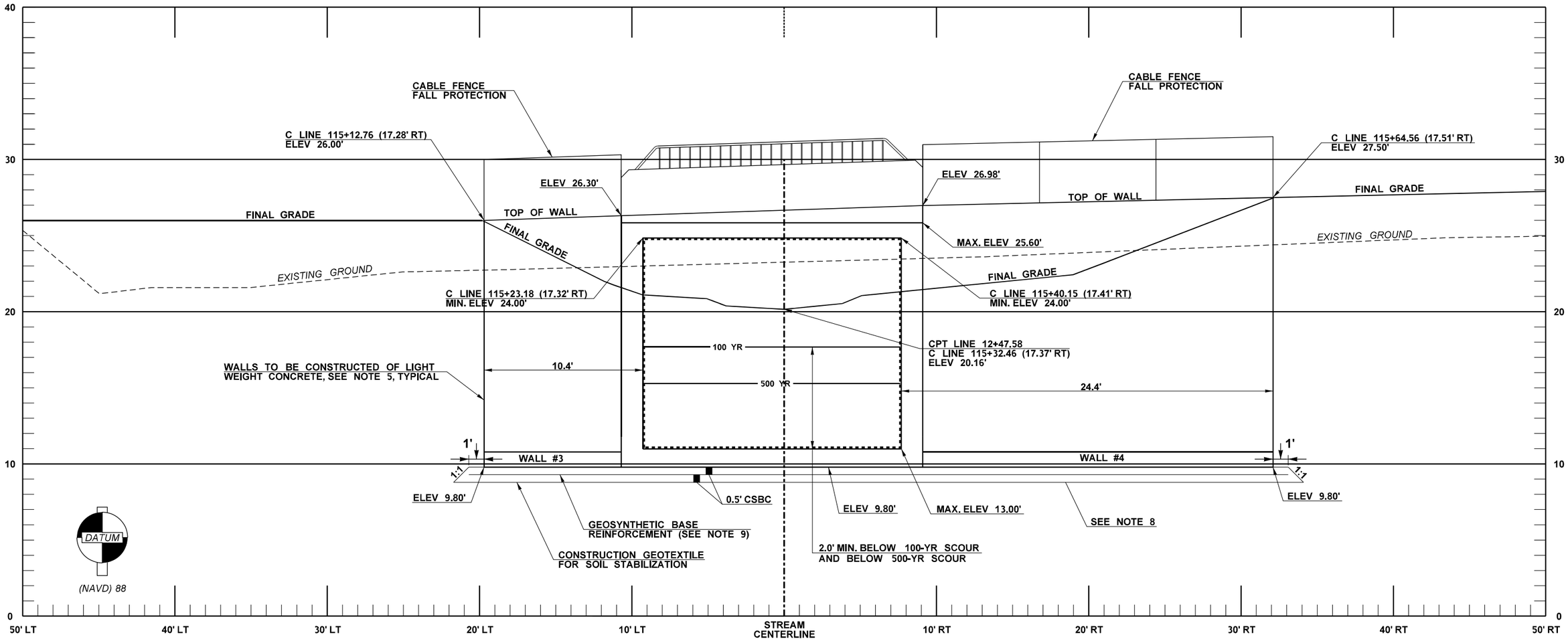
FISH PASSAGE

CONTRACTOR DESIGNED BURIED
STRUCTURE NO. 1 DETAILS

Plot 1
PLAN REF NO
BC1
SHEET 36 OF 48 SHEETS

SOUTH HEADWALL & WALLS
INLET
(LOOKING DOWNSTREAM)



A-A

UNT CARPENTER CREEK ELEVATIONS		
	100-YR SCOUR ELEVATION	500-YR SCOUR ELEVATION
INLET	17.7'	15.3'
OUTLET	15.0'	13.1'

STRUCTURE FREE ZONE

NOTES:

1. STATIONS AND OFFSETS TO OUTSIDE FACE OF WALLS.
2. STRUCTURE SHALL BE A 4-SIDED STRUCTURE.
3. STRUCTURAL DESIGN SHOWN FOR ILLUSTRATIVE PURPOSES ONLY. SLAB, WALL AND FOUNDATION THICKNESS SHOWN AT ASSUMED DIMENSIONS.
4. CABLE FENCE FALL PROTECTION SHALL BE INSTALLED ON THE TOP OF ALL HEADWALLS AND WING WALLS WHERE REQUIRED. SHOWN FOR ILLUSTRATIVE PURPOSES ONLY.
5. ALL HEADWALLS, WING WALLS, TRAFFIC BARRIERS, BRIDGE RAILING AND/OR FALL PROTECTION ARE INCLUDED IN THE LUMP SUM BID ITEM FOR CONTRACTOR DESIGNED BURIED STRUCTURE NO. 1. THE WING WALLS SHALL BE PRECAST LIGHTWEIGHT CONCRETE WITH MECHANICAL CONNECTIONS TO THE 4-SIDED STRUCTURE. SEE SPECIAL PROVISIONS FOR LIGHTWEIGHT CONCRETE.
6. A MINIMUM HYDRAULIC OPENING OF 12', PERPENDICULAR TO THE INSIDE OF THE STRUCTURE, SHALL BE PROVIDED.
7. CHAMFERS OR FILLETS ON THE INSIDE OF THE STRUCTURE SHALL NOT ENCROACH ON THE STRUCTURE FREE ZONE.
8. EXCAVATION AND CSBC IS INCLUDED IN THE LUMP SUM BID ITEM "EARTHWORK". FOR REQUIREMENTS AND RECOMMENDATION, SEE GEOTECHNICAL REPORT.
9. GEOSYNTHETIC BASE REINFORCEMENT, SEE SPECIAL PROVISIONS.

FILE NAME	T:\412334\XL6097 SR534 Trib to Carpenter Ck FP\CAE\CAD\ContractPlans\Addendum\Addendum No. 1\SR534_155_PS_Det_Box Culvert.dgn					
TIME	1:32:24 PM				REGION NO. 10	STATE WASH	FED.AID PROJ.NO.
DATE	11/9/2022					
PLOTTED BY	hardoug					
DESIGNED BY	D. HARRIS				JOB NUMBER 22A021	
ENTERED BY	J. MOE					
CHECKED BY	A. WILLIAMS				CONTRACT NO.	LOCATION NO.
PROJ. ENGR.	S. BEIER	AD1 - REPLACEMENT SHEET	11/08/2022	DH		
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY		

SPENCER T. BEIER — STATE OF WASHINGTON — 36005 — REGISTERED PROFESSIONAL ENGINEER

SEE CT1
DATE
P.E. STAMP BOX

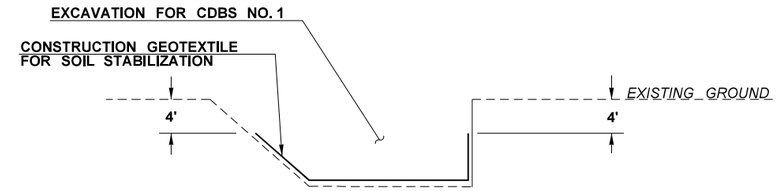
DATE
P.E. STAMP BOX

Washington State
Department of Transportation

SR 534
UNNAMED TRIBUTARY TO CARPENTER CR
FISH PASSAGE

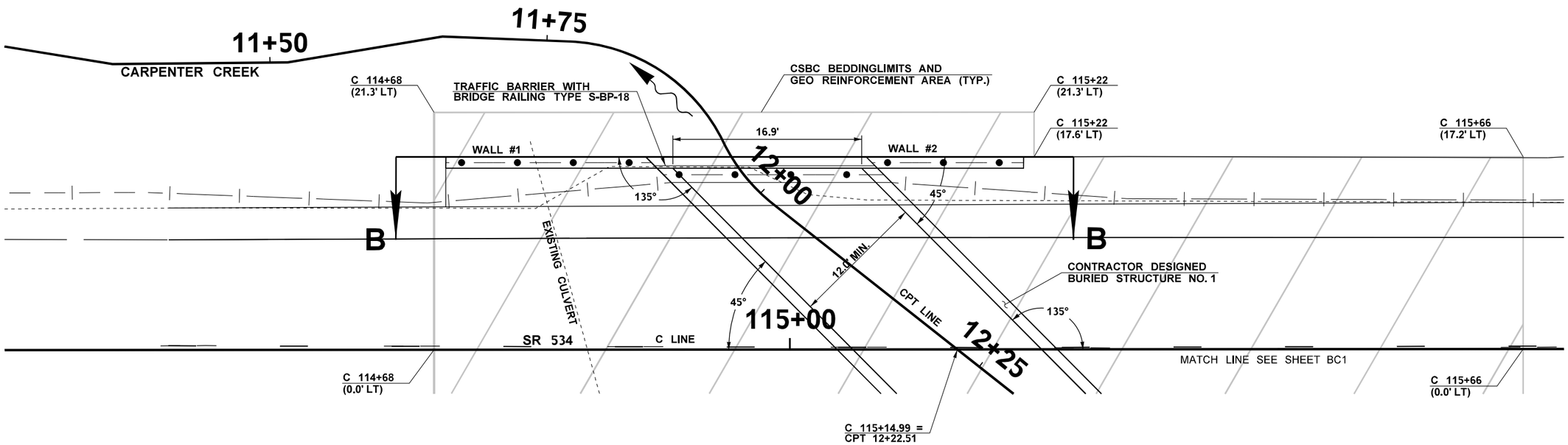
CONTRACTOR DESIGNED BURIED
STRUCTURE NO. 1 DETAILS

Plot 2
PLAN REF NO
BC2
SHEET 37 OF 48 SHEETS



WITH EXTRA EXCAVATION WITH VERTICAL SHORING

CONSTRUCTION GEOTEXTILE FOR SOIL STABILIZATION DETAIL



LEGEND

- EXISTING PAVED EDGE OF ROADWAY
- EXISTING CULVERT
- NEW CONSTRUCTION ALIGNMENT
- NEW STREAM ALIGNMENT
- NEW PAVED EDGE OF ROADWAY
- NEW BRIDGE RAILING
- NEW CONTRACTOR DESIGNED BURIED STRUCTURE NO. 1
- FLOW LINE
- CSBC BEDDING LIMITS AND GEO REINFORCMENT AREA

0 5 10
SCALE IN FEET

NOTES:

1. SEE SHEET BC1 FOR SOUTH END (UPSTREAM).
2. SEE SHEET BC4 FOR CROSS SECTION B-B.
3. SEE SHEET AL1 FOR STREAM AND ROADWAY ALIGNMENT.
4. SEE SHEET RP1 FOR CENTERLINE ROADWAY PROFILE.
5. SEE SHEET PV1 FOR TRAFFIC BARRIER AND GUARDRAIL.
6. A MINIMUM HYDRAULIC OPENING OF 12', PERPENDICULAR TO THE INSIDE OF THE STRUCTURE, SHALL BE PROVIDED.

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TIME	1:32:32 PM				REGION NO. 10	STATE WASH	FED.AID PROJ.NO.
DATE	11/9/2022						
PLOTTED BY	hardoug				JOB NUMBER 22A021		
DESIGNED BY	D. HARRIS						
ENTERED BY	J. MOE						
CHECKED BY	A. WILLIAMS				CONTRACT NO.		LOCATION NO.
PROJ. ENGR.	S. BEIER	AD1 - REPLACEMENT SHEET	11/08/2022	DH			
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY			

SPENCER T. BEIER — STATE OF WASHINGTON — 36005 — REGISTERED PROFESSIONAL ENGINEER

SEE CT1
DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

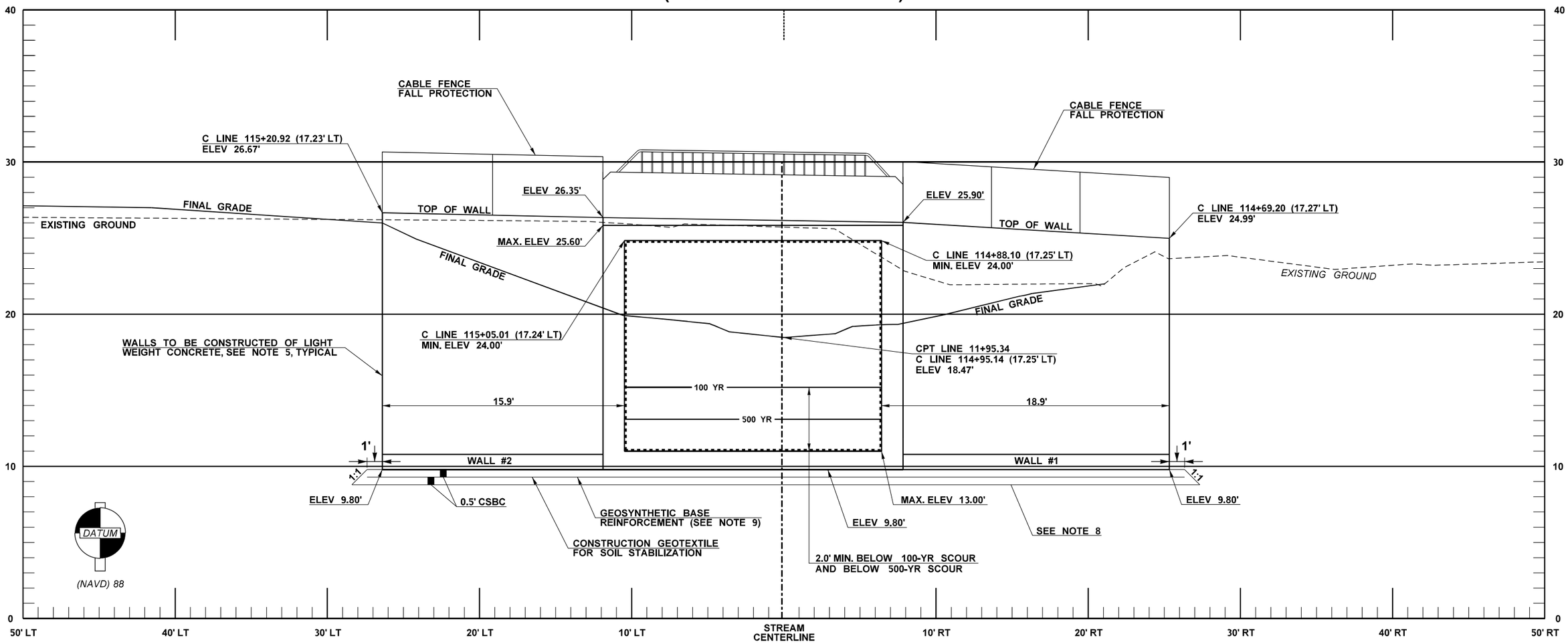
Washington State Department of Transportation

SR 534
UNNAMED TRIBUTARY TO CARPENTER CR
FISH PASSAGE

CONTRACTOR DESIGNED BURIED STRUCTURE NO. 1 DETAILS

Plot 3
PLAN REF NO BC3
SHEET 38 OF 48 SHEETS

NORTH HEADWALL & WALLS
OUTLET
(LOOKING UPSTREAM)



B-B

UNT CARPENTER CREEK ELEVATIONS		
	100-YR SCOUR ELEVATION	500-YR SCOUR ELEVATION
INLET	17.7'	15.3'
OUTLET	15.0'	13.1'

STRUCTURE FREE ZONE

NOTES:

1. STATIONS AND OFFSETS TO OUTSIDE FACE OF WALLS.
2. STRUCTURE SHALL BE A 4-SIDED STRUCTURE.
3. STRUCTURAL DESIGN SHOWN FOR ILLUSTRATIVE PURPOSES ONLY. SLAB, WALL AND FOUNDATION THICKNESS SHOWN AT ASSUMED DIMENSIONS.
4. CABLE FENCE FALL PROTECTION SHALL BE INSTALLED ON THE TOP OF ALL HEADWALLS AND WING WALLS WHERE REQUIRED. SHOWN FOR ILLUSTRATIVE PURPOSES ONLY.
5. ALL HEADWALLS, WING WALLS, TRAFFIC BARRIERS, BRIDGE RAILING AND/OR FALL PROTECTION ARE INCLUDED IN THE LUMP SUM BID ITEM FOR CONTRACTOR DESIGNED BURIED STRUCTURE NO. 1. THE WING WALLS SHALL BE PRECAST LIGHTWEIGHT CONCRETE WITH MECHANICAL CONNECTIONS TO THE 4-SIDED STRUCTURE. SEE SPECIAL PROVISIONS FOR LIGHTWEIGHT CONCRETE.
6. A MINIMUM HYDRAULIC OPENING OF 12', PERPENDICULAR TO THE INSIDE OF THE STRUCTURE, SHALL BE PROVIDED.
7. CHAMFERS OR FILLETS ON THE INSIDE OF THE STRUCTURE SHALL NOT ENCROACH ON THE STRUCTURE FREE ZONE.
8. EXCAVATION AND CSBC IS INCLUDED IN THE LUMP SUM BID ITEM "EARTHWORK". FOR REQUIREMENTS AND RECOMMENDATION, SEE GEOTECHNICAL REPORT.
9. GEOSYNTHETIC BASE REINFORCEMENT, SEE SPECIAL PROVISIONS.

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DATE	11/9/2022			
PLOTTED BY	hardoug			
DESIGNED BY	D. HARRIS			
ENTERED BY	J. MOE			
CHECKED BY	A. WILLIAMS			
PROJ. ENGR.	S. BEIER	AD1 - REPLACEMENT SHEET	11/08/2022	DH
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER 22A021		
CONTRACT NO.		LOCATION NO.

SPENCER T. BEIER STATE OF WASHINGTON 36005 REGISTERED PROFESSIONAL ENGINEER

SEE CT1
DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

Washington State
Department of Transportation

SR 534
UNNAMED TRIBUTARY TO CARPENTER CR
FISH PASSAGE

CONTRACTOR DESIGNED BURIED
STRUCTURE NO. 1 DETAILS

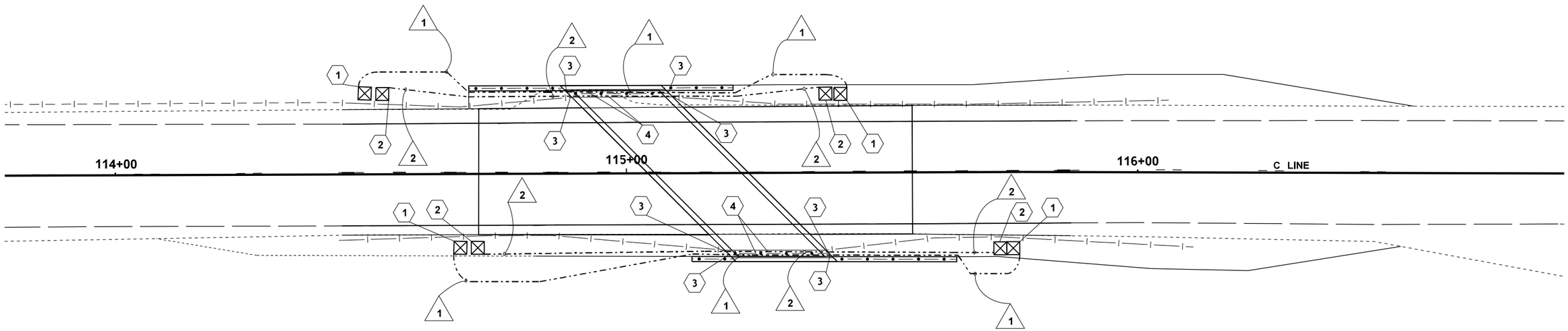
Plot 4
PLAN REF NO
BC4
SHEET 39 OF 48 SHEETS

NOTES:

1. COORDINATE ELECTRICAL WORK WITH CONTRACTOR STRUCTURE DESIGN

LEGEND

Existing	New		Symbols	
	⊠	TYPE 1 JUNCTION BOX	△ #	Wire Note
	-·-·-	CONDUIT	⬡ #	Construction Note



CONSTRUCTION NOTES

(1) INSTALL TYPE ONE JUNCTION BOX LABELED "TS". INSTALL A ONE FOOT WIDE AND ONE FOOT DEEP RECTANGULAR CONCRETE CEMENT COLLAR AROUND PERIMETER OF JUNCTION BOX. THE EXPOSED PORTIONS SHALL BE FORMED TO HAVE A NEAT APPEARANCE. THE OUTSIDE EDGE SHALL HAVE A 3 / 4 INCH CHAMFER. THE CONCRETE MIXED DESIGN SHALL BE COMMERCIAL CONCRETE PER STANDARD SPECIFICATION 6-02.3(2)B.

(2) INSTALL TYPE ONE JUNCTION BOX LABELED "LT". INSTALL A ONE FOOT WIDE AND ONE FOOT DEEP RECTANGULAR CONCRETE CEMENT COLLAR AROUND PERIMETER OF JUNCTION BOX. THE EXPOSED PORTIONS SHALL BE FORMED TO HAVE A NEAT APPEARANCE. THE OUTSIDE EDGE SHALL HAVE A 3 / 4 INCH CHAMFER. THE CONCRETE MIXED DESIGN SHALL BE COMMERCIAL CONCRETE PER STANDARD SPECIFICATION 6-02.3(2)B.

(3) INSTALL CONDUIT AND DEFLECTION (DX) FITTING AT TRANSITION FROM TOP SLAB TO GRADE.

(4) INSTALL RGS CONDUITS IN TOP SLAB OF CONTRACTOR DESIGNED BURIED STRUCTURE.

WIRING SCHEDULE

△ NO.	CONDUIT SIZE "NEW"			COMMENTS
1	2" RGS			SPARE "TS"
2	2" RGS			SPARE "LT"

0 10 20
SCALE IN FEET

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DATE	11/1/2022			
PLOTTED BY	Zacharc			
DESIGNED BY	C. ZACHARIAS			
ENTERED BY	C. ZACHARIAS			
CHECKED BY	D. DO			
PROJ. ENGR.	S. BEIER			
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER 22A021		
CONTRACT NO.		LOCATION NO.

DUKE HUU DO — STATE OF WASHINGTON — 35140 — REGISTERED PROFESSIONAL ENGINEER

SEE CT1
DATE
P.E. STAMP BOX

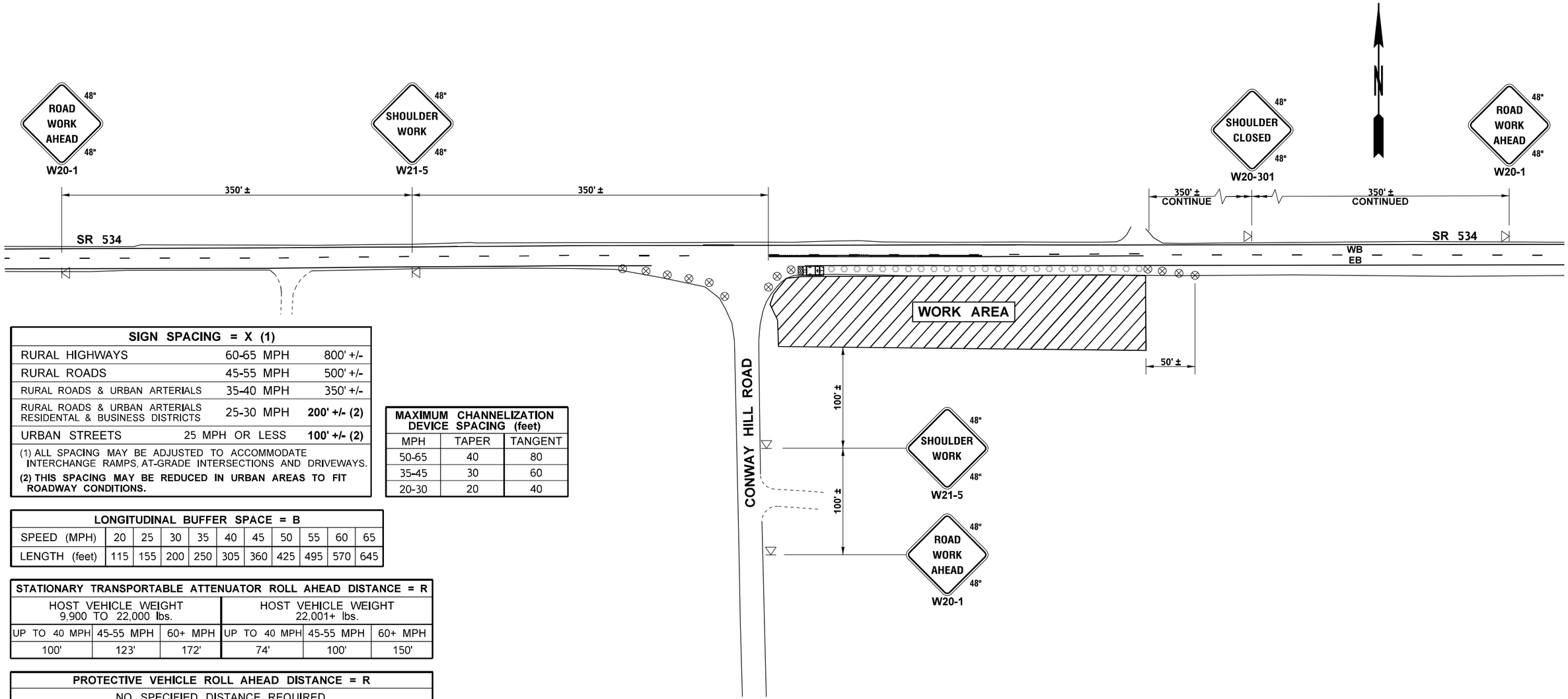
DATE
P.E. STAMP BOX

Washington State Department of Transportation

SR 534
UNNAMED TRIBUTARY TO CARPENTER CR
FISH PASSAGE

ILLUMINATION PLAN

Plot 1
PLAN REF NO IL1
SHEET 39A OF 48 SHEETS



SIGN SPACING = X (1)		
RURAL HIGHWAYS	60-65 MPH	800' +/-
RURAL ROADS	45-55 MPH	500' +/-
RURAL ROADS & URBAN ARTERIALS	35-40 MPH	350' +/-
RURAL ROADS & URBAN ARTERIALS RESIDENTAL & BUSINESS DISTRICTS	25-30 MPH	**200' +/- (2)**
URBAN STREETS	25 MPH OR LESS	**100' +/- (2)**

(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERCHANGE RAMPS, AT-GRADE INTERSECTIONS AND DRIVEWAYS.

(2) THIS SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROADWAY CONDITIONS.

MAXIMUM CHANNELIZATION DEVICE SPACING (feet)		
MPH	TAPER	TANGENT
50-65	40	80
35-45	30	60
20-30	20	40

LONGITUDINAL BUFFER SPACE = B										
SPEED (MPH)	20	25	30	35	40	45	50	55	60	65
LENGTH (feet)	115	155	200	250	305	360	425	495	570	645

STATIONARY TRANSPORTABLE ATTENUATOR ROLL AHEAD DISTANCE = R					
HOST VEHICLE WEIGHT 9,900 TO 22,000 lbs.			HOST VEHICLE WEIGHT 22,001+ lbs.		
UP TO 40 MPH	45-55 MPH	60+ MPH	UP TO 40 MPH	45-55 MPH	60+ MPH
100'	123'	172'	74'	100'	150'

PROTECTIVE VEHICLE ROLL AHEAD DISTANCE = R
NO SPECIFIED DISTANCE REQUIRED. STRATEGICALLY POSITION WORK VEHICLE TO PROTECT WORK CREW.

LEGEND:

- WORK AREA
- CLASS B SIGN LOCATION
- TRAFFIC SAFETY DRUM - SEE SPECIAL PROVISIONS
- 42" TALL CHANNELIZING DEVICE
- TRANSPORTABLE ATTENUATOR (TA) OR PROTECTIVE VEHICLE

GENERAL NOTES:

1. SEE SPECIAL PROVISIONS FOR WORK HOUR RESTRICTIONS.
2. EXTEND DEVICE TAPER (L/3) ACROSS SHOULDER.
3. ALL SIGNS ARE BLACK ON ORANGE UNLESS OTHERWISE DESIGNATED.

0 50 100
SCALE IN FEET

SR 534 EASTBOUND SHOULDER CLOSURE MP 0.59 - MP 0.65

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DATE	10/4/2022
PLOTTED BY	hardoug
DESIGNED BY	B. BEEMER
ENTERED BY	J. MOE
CHECKED BY	A. WILLIAMS
PROJ. ENGR.	S. BEIER
REGIONAL ADM.	B. NIELSEN

REVISION | DATE | BY

REGION NO. 10 | STATE WASH | FED.AID PROJ.NO.

JOB NUMBER 22A021

CONTRACT NO. | LOCATION NO.

P.E. STAMP BOX DATE

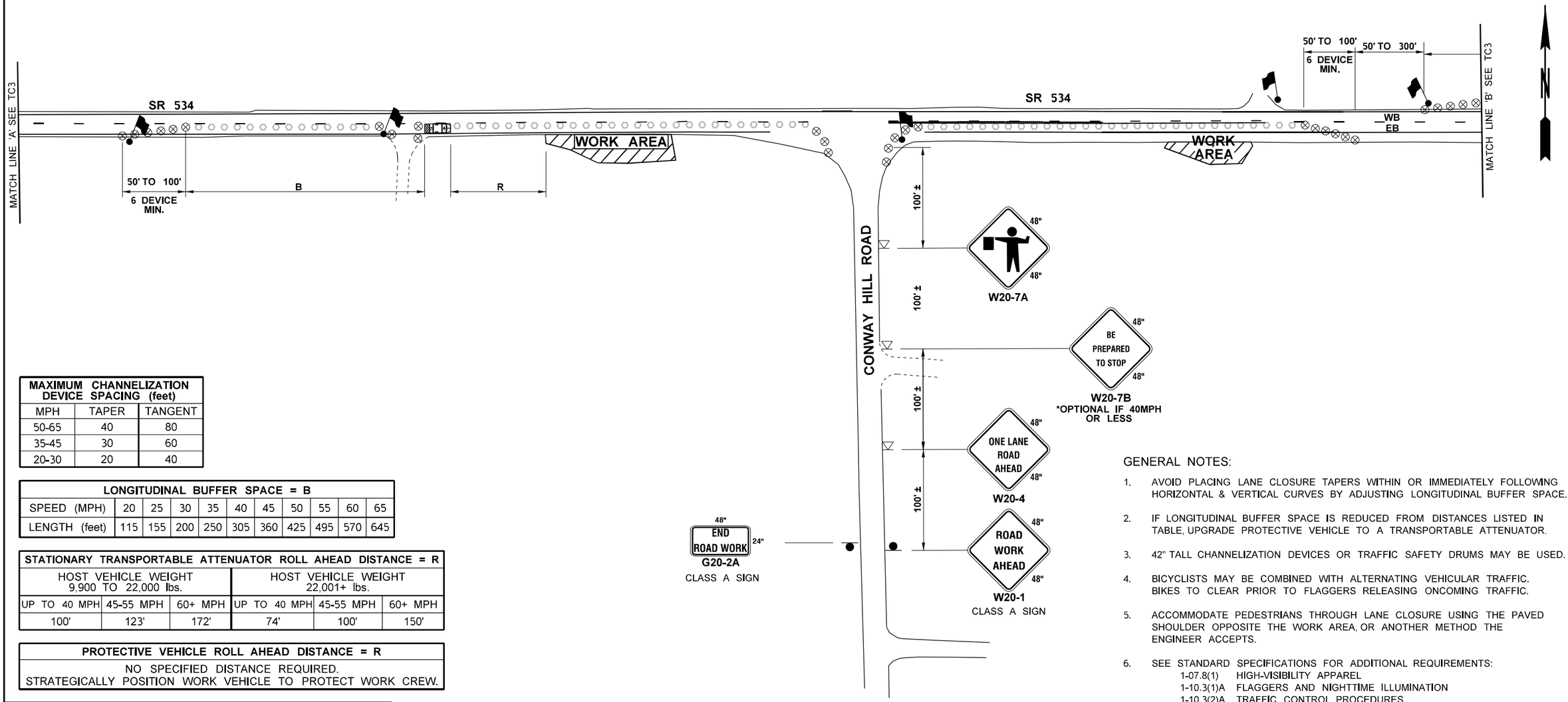
P.E. STAMP BOX DATE

Washington State Department of Transportation

SR 534
UNNAMED TRIBUTARY TO CARPENTER CR
FISH PASSAGE

TRAFFIC CONTROL PLAN

Plot 1
PLAN REF NO TC1
SHEET 40 OF 48 SHEETS



MAXIMUM CHANNELIZATION DEVICE SPACING (feet)		
MPH	TAPER	TANGENT
50-65	40	80
35-45	30	60
20-30	20	40

LONGITUDINAL BUFFER SPACE = B										
SPEED (MPH)	20	25	30	35	40	45	50	55	60	65
LENGTH (feet)	115	155	200	250	305	360	425	495	570	645

STATIONARY TRANSPORTABLE ATTENUATOR ROLL AHEAD DISTANCE = R					
HOST VEHICLE WEIGHT 9,900 TO 22,000 lbs.			HOST VEHICLE WEIGHT 22,001+ lbs.		
UP TO 40 MPH	45-55 MPH	60+ MPH	UP TO 40 MPH	45-55 MPH	60+ MPH
100'	123'	172'	74'	100'	150'

PROTECTIVE VEHICLE ROLL AHEAD DISTANCE = R
NO SPECIFIED DISTANCE REQUIRED. STRATEGICALLY POSITION WORK VEHICLE TO PROTECT WORK CREW.

LEGEND:

- WORK AREA
- CLASS B SIGN LOCATION
- CLASS A SIGN LOCATION
- TRAFFIC SAFETY DRUM - SEE SPECIAL PROVISIONS
- 42" TALL CHANNELIZING DEVICE
- FLAGGER STATION
- TRANSPORTABLE ATTENUATOR (TA) OR PROTECTIVE VEHICLE

GENERAL NOTES:

1. AVOID PLACING LANE CLOSURE TAPERS WITHIN OR IMMEDIATELY FOLLOWING HORIZONTAL & VERTICAL CURVES BY ADJUSTING LONGITUDINAL BUFFER SPACE.
2. IF LONGITUDINAL BUFFER SPACE IS REDUCED FROM DISTANCES LISTED IN TABLE, UPGRADE PROTECTIVE VEHICLE TO A TRANSPORTABLE ATTENUATOR.
3. 42" TALL CHANNELIZATION DEVICES OR TRAFFIC SAFETY DRUMS MAY BE USED.
4. BICYCLISTS MAY BE COMBINED WITH ALTERNATING VEHICULAR TRAFFIC. BIKES TO CLEAR PRIOR TO FLAGGERS RELEASING ONCOMING TRAFFIC.
5. ACCOMMODATE PEDESTRIANS THROUGH LANE CLOSURE USING THE PAVED SHOULDER OPPOSITE THE WORK AREA, OR ANOTHER METHOD THE ENGINEER ACCEPTS.
6. SEE STANDARD SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS:
   - 1-07.8(1) HIGH-VISIBILITY APPAREL
   - 1-10.3(1)A FLAGGERS AND NIGHTTIME ILLUMINATION
   - 1-10.3(2)A TRAFFIC CONTROL PROCEDURES
   - 9-35.1 24-INCH STOP/SLOW PADDLE SIZE
7. FOR PROJECT-SPECIFIC REQUIREMENTS, SEE SPECIAL PROVISIONS.
8. SIGNS ARE BLACK OR ORANGE UNLESS OTHERWISE INDICATED.
9. ACTUAL CENTERLINE PAVEMENT MARKINGS MAY VARY.
10. EXTEND DEVICE TAPER (L/3) ACROSS SHOULDER.

0 50 100
SCALE IN FEET

SR 534 ALTERNATING 1-LANE, 2-WAY TRAFFIC FLAGGER CONTROLLED, MP 0.49 - MP 0.69

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DATE	10/4/2022				
PLOTTED BY	hardoug				
DESIGNED BY	B. BEEMER				
ENTERED BY	J. MOE				
CHECKED BY	A. WILLIAMS				
PROJ. ENGR.	S. BEIER				
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY	

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER 22A021		
CONTRACT NO.		LOCATION NO.

P.E. STAMP BOX DATE

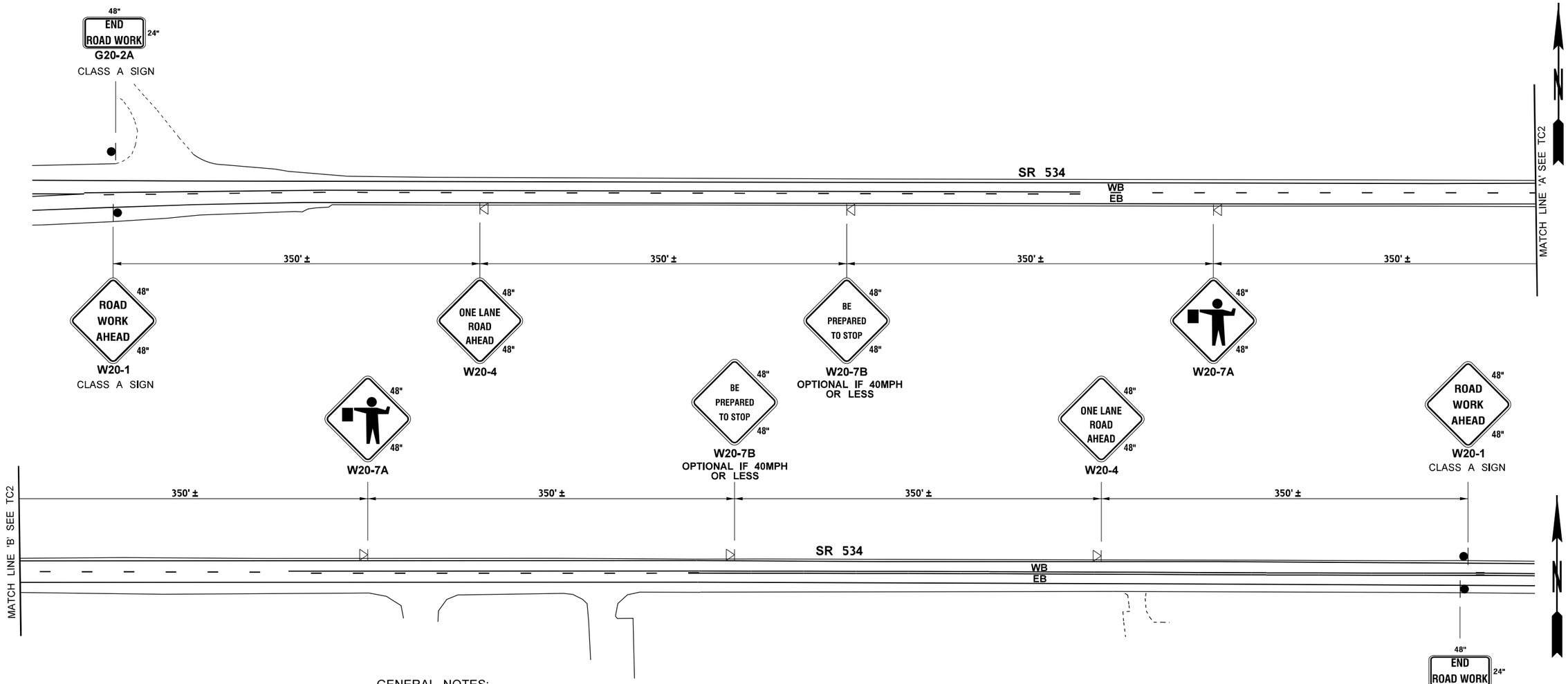
P.E. STAMP BOX DATE

Washington State Department of Transportation

SR 534
UNNAMED TRIBUTARY TO CARPENTER CR
FISH PASSAGE

TRAFFIC CONTROL PLAN

Plot 11
PLAN REF NO TC2
SHEET 41 OF 48 SHEETS



GENERAL NOTES:

1. AVOID PLACING LANE CLOSURE TAPERS WITHIN OR IMMEDIATELY FOLLOWING HORIZONTAL & VERTICAL CURVES BY ADJUSTING LONGITUDINAL BUFFER SPACE.
2. IF LONGITUDINAL BUFFER SPACE IS REDUCED FROM DISTANCES LISTED IN TABLE, UPGRADE PROTECTIVE VEHICLE TO A TRANSPORTABLE ATTENUATOR.
3. 42" TALL CHANNELIZATION DEVICES OR TRAFFIC SAFETY DRUMS MAY BE USED.
4. BICYCLISTS MAY BE COMBINED WITH ALTERNATING VEHICULAR TRAFFIC. BIKES TO CLEAR PRIOR TO FLAGGERS RELEASING ONCOMING TRAFFIC.
5. ACCOMMODATE PEDESTRIANS THROUGH LANE CLOSURE USING THE PAVED SHOULDER OPPOSITE THE WORK AREA, OR ANOTHER METHOD THE ENGINEER ACCEPTS.
6. SEE STANDARD SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS:
   - 1-07.8(1) HIGH-VISIBILITY APPAREL
   - 1-10.3(1)A FLAGGERS AND NIGHTTIME ILLUMINATION
   - 1-10.3(2)A TRAFFIC CONTROL PROCEDURES
   - 9-35.1 24-INCH STOP/SLOW PADDLE SIZE
7. FOR PROJECT-SPECIFIC REQUIREMENTS, SEE SPECIAL PROVISIONS.
8. SIGNS ARE BLACK OR ORANGE UNLESS OTHERWISE INDICATED.
9. ACTUAL CENTERLINE PAVEMENT MARKINGS MAY VARY.
10. EXTEND DEVICE TAPER (L/3) ACROSS SHOULDER.

LEGEND:

- WORK AREA
- CLASS B SIGN LOCATION
- CLASS A SIGN LOCATION
- TRAFFIC SAFETY DRUM - SEE SPECIAL PROVISIONS
- 42" TALL CHANNELIZING DEVICE
- FLAGGER STATION
- TRANSPORTABLE ATTENUATOR (TA) OR PROTECTIVE VEHICLE

0 50 100
SCALE IN FEET

SR 534 ALTERNATING 1-LANE, 2-WAY TRAFFIC FLAGGER CONTROLLED, MP 0.49 - MP 0.69

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DATE	10/4/2022
PLOTTED BY	hardoug
DESIGNED BY	B. BEEMER
ENTERED BY	J. MOE
CHECKED BY	A. WILLIAMS
PROJ. ENGR.	S. BEIER
REGIONAL ADM.	B. NIELSEN

REVISION | DATE | BY

REGION NO. 10 | STATE WASH | FED.AID PROJ.NO.

JOB NUMBER 22A021

CONTRACT NO. | LOCATION NO.

P.E. STAMP BOX DATE

P.E. STAMP BOX DATE

Washington State Department of Transportation

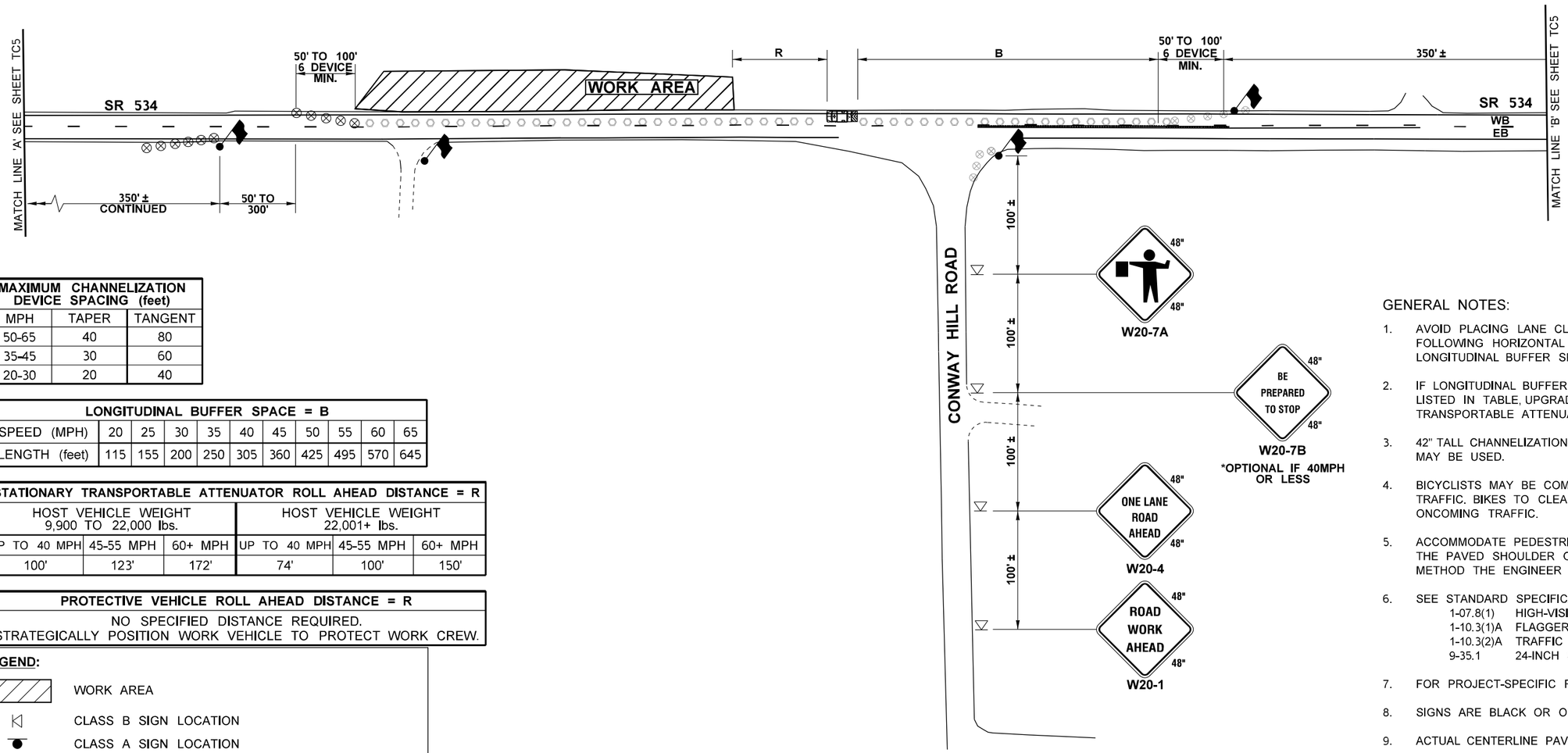
SR 534
UNNAMED TRIBUTARY TO CARPENTER CR
FISH PASSAGE

TRAFFIC CONTROL PLAN

Plot 12

PLAN REF NO TC3

SHEET 42 OF 48 SHEETS



MAXIMUM CHANNELIZATION DEVICE SPACING (feet)		
MPH	TAPER	TANGENT
50-65	40	80
35-45	30	60
20-30	20	40

LONGITUDINAL BUFFER SPACE = B										
SPEED (MPH)	20	25	30	35	40	45	50	55	60	65
LENGTH (feet)	115	155	200	250	305	360	425	495	570	645

STATIONARY TRANSPORTABLE ATTENUATOR ROLL AHEAD DISTANCE = R					
HOST VEHICLE WEIGHT 9,900 TO 22,000 lbs.			HOST VEHICLE WEIGHT 22,001+ lbs.		
UP TO 40 MPH	45-55 MPH	60+ MPH	UP TO 40 MPH	45-55 MPH	60+ MPH
100'	123'	172'	74'	100'	150'

PROTECTIVE VEHICLE ROLL AHEAD DISTANCE = R
NO SPECIFIED DISTANCE REQUIRED. STRATEGICALLY POSITION WORK VEHICLE TO PROTECT WORK CREW.

LEGEND:

- WORK AREA
- CLASS B SIGN LOCATION
- CLASS A SIGN LOCATION
- TRAFFIC SAFETY DRUM - SEE SPECIAL PROVISIONS
- 42" TALL CHANNELIZING DEVICE
- FLAGGER STATION
- TRANSPORTABLE ATTENUATOR (TA) OR PROTECTIVE VEHICLE

GENERAL NOTES:

1. AVOID PLACING LANE CLOSURE TAPERS WITHIN OR IMMEDIATELY FOLLOWING HORIZONTAL & VERTICAL CURVES BY ADJUSTING LONGITUDINAL BUFFER SPACE.
2. IF LONGITUDINAL BUFFER SPACE IS REDUCED FROM DISTANCES LISTED IN TABLE, UPGRADE PROTECTIVE VEHICLE TO A TRANSPORTABLE ATTENUATOR.
3. 42" TALL CHANNELIZATION DEVICES OR TRAFFIC SAFETY DRUMS MAY BE USED.
4. BICYCLISTS MAY BE COMBINED WITH ALTERNATING VEHICULAR TRAFFIC. BIKES TO CLEAR PRIOR TO FLAGGERS RELEASING ONCOMING TRAFFIC.
5. ACCOMMODATE PEDESTRIANS THROUGH LANE CLOSURE USING THE PAVED SHOULDER OPPOSITE THE WORK AREA, OR ANOTHER METHOD THE ENGINEER ACCEPTS.
6. SEE STANDARD SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS:
   - 1-07.8(1) HIGH-VISIBILITY APPAREL
   - 1-10.3(1)A FLAGGERS AND NIGHTTIME ILLUMINATION
   - 1-10.3(2)A TRAFFIC CONTROL PROCEDURES
   - 9-35.1 24-INCH STOP/SLOW PADDLE SIZE
7. FOR PROJECT-SPECIFIC REQUIREMENTS, SEE SPECIAL PROVISIONS.
8. SIGNS ARE BLACK OR ORANGE UNLESS OTHERWISE INDICATED.
9. ACTUAL CENTERLINE PAVEMENT MARKINGS MAY VARY.
10. EXTEND DEVICE TAPER (L/3) ACROSS SHOULDER.

0 50 100
SCALE IN FEET

SR 534 ALTERNATING 1-LANE, 2-WAY TRAFFIC FLAGGER CONTROLLED, MP 0.49 - MP 0.56

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PLOTTED BY	hardoug
DESIGNED BY	B. BEEMER
ENTERED BY	J. MOE
CHECKED BY	A. WILLIAMS
PROJ. ENGR.	S. BEIER
REGIONAL ADM.	B. NIELSEN

REVISION | DATE | BY

REGION NO. 10 | STATE WASH | FED.AID PROJ.NO.

JOB NUMBER 22A021

CONTRACT NO. | LOCATION NO.

P.E. STAMP BOX DATE

P.E. STAMP BOX DATE

Washington State Department of Transportation

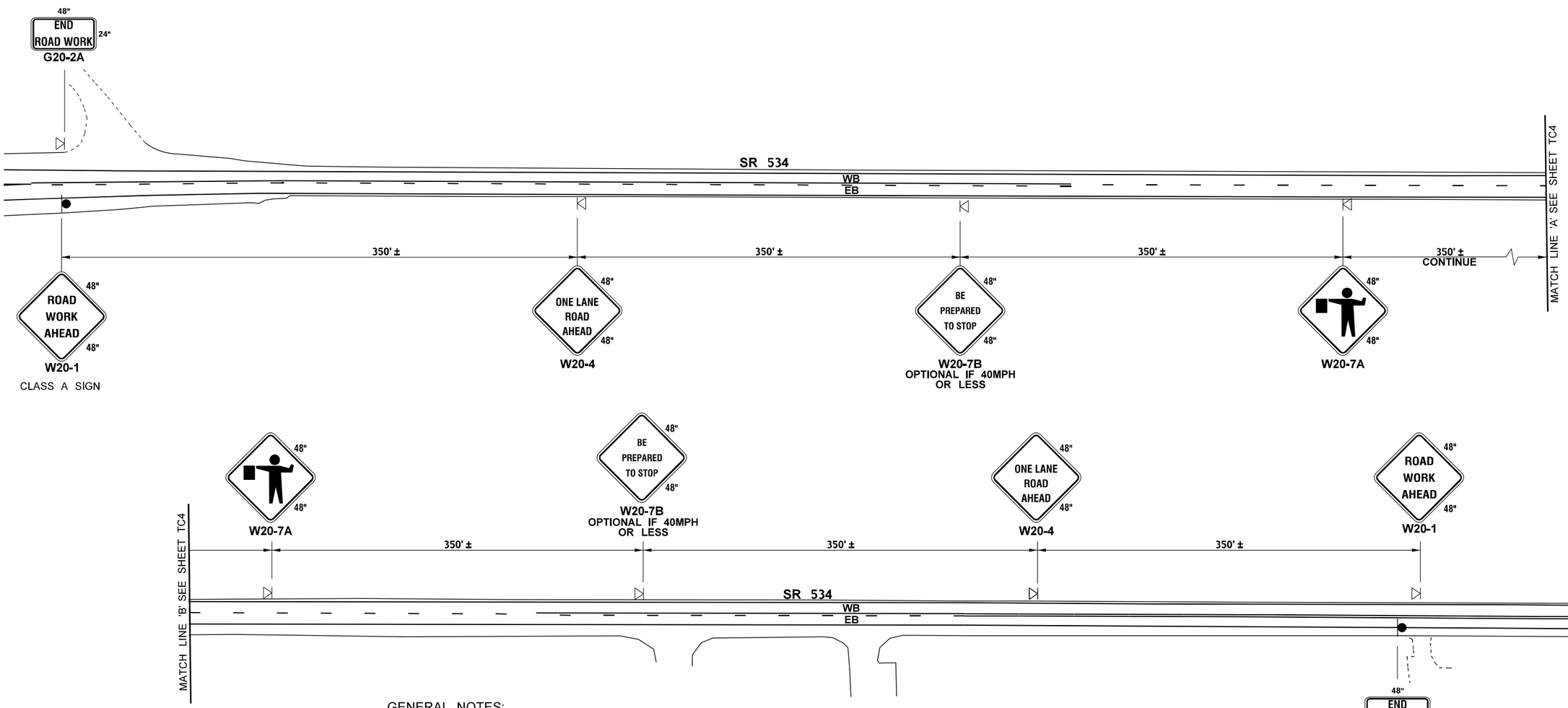
SR 534
UNNAMED TRIBUTARY TO CARPENTER CR
FISH PASSAGE

TRAFFIC CONTROL PLAN

Plot 21

PLAN REF NO TC4

SHEET 43 OF 48 SHEETS



GENERAL NOTES:

1. AVOID PLACING LANE CLOSURE TAPERS WITHIN OR IMMEDIATELY FOLLOWING HORIZONTAL & VERTICAL CURVES BY ADJUSTING LONGITUDINAL BUFFER SPACE.
2. IF LONGITUDINAL BUFFER SPACE IS REDUCED FROM DISTANCES LISTED IN TABLE, UPGRADE PROTECTIVE VEHICLE TO A TRANSPORTABLE ATTENUATOR.
3. 42" TALL CHANNELIZATION DEVICES OR TRAFFIC SAFETY DRUMS MAY BE USED.
4. BICYCLISTS MAY BE COMBINED WITH ALTERNATING VEHICULAR TRAFFIC. BIKES TO CLEAR PRIOR TO FLAGGERS RELEASING ONCOMING TRAFFIC.
5. ACCOMMODATE PEDESTRIANS THROUGH LANE CLOSURE USING THE PAVED SHOULDER OPPOSITE THE WORK AREA, OR ANOTHER METHOD THE ENGINEER ACCEPTS.
6. SEE STANDARD SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS:
   - 1-07.8(1) HIGH-VISIBILITY APPAREL
   - 1-10.3(1)A FLAGGERS AND NIGHTTIME ILLUMINATION
   - 1-10.3(2)A TRAFFIC CONTROL PROCEDURES
   - 9-35.1 24-INCH STOP/SLOW PADDLE SIZE
7. FOR PROJECT-SPECIFIC REQUIREMENTS, SEE SPECIAL PROVISIONS.
8. SIGNS ARE BLACK OR ORANGE UNLESS OTHERWISE INDICATED.
9. ACTUAL CENTERLINE PAVEMENT MARKINGS MAY VARY.
10. EXTEND DEVICE TAPER (L/3) ACROSS SHOULDER.

LEGEND:

- WORK AREA
- CLASS B SIGN LOCATION
- CLASS A SIGN LOCATION
- TRAFFIC SAFETY DRUM - SEE SPECIAL PROVISIONS
- 42" TALL CHANNELIZING DEVICE
- FLAGGER STATION
- TRANSPORTABLE ATTENUATOR (TA) OR PROTECTIVE VEHICLE

0 50 100
SCALE IN FEET

SR 534 ALTERNATING 1-LANE, 2-WAY TRAFFIC FLAGGER CONTROLLED, MP 0.49 - MP 0.56

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PLOTTED BY	hardoug
DESIGNED BY	B. BEEMER
ENTERED BY	J. MOE
CHECKED BY	A. WILLIAMS
PROJ. ENGR.	S. BEIER
REGIONAL ADM.	B. NIELSEN

REVISION | DATE | BY

REGION NO. 10 | STATE WASH | FED.AID PROJ.NO.

JOB NUMBER 22A021

CONTRACT NO. | LOCATION NO.

P.E. STAMP BOX DATE

P.E. STAMP BOX DATE

Washington State Department of Transportation

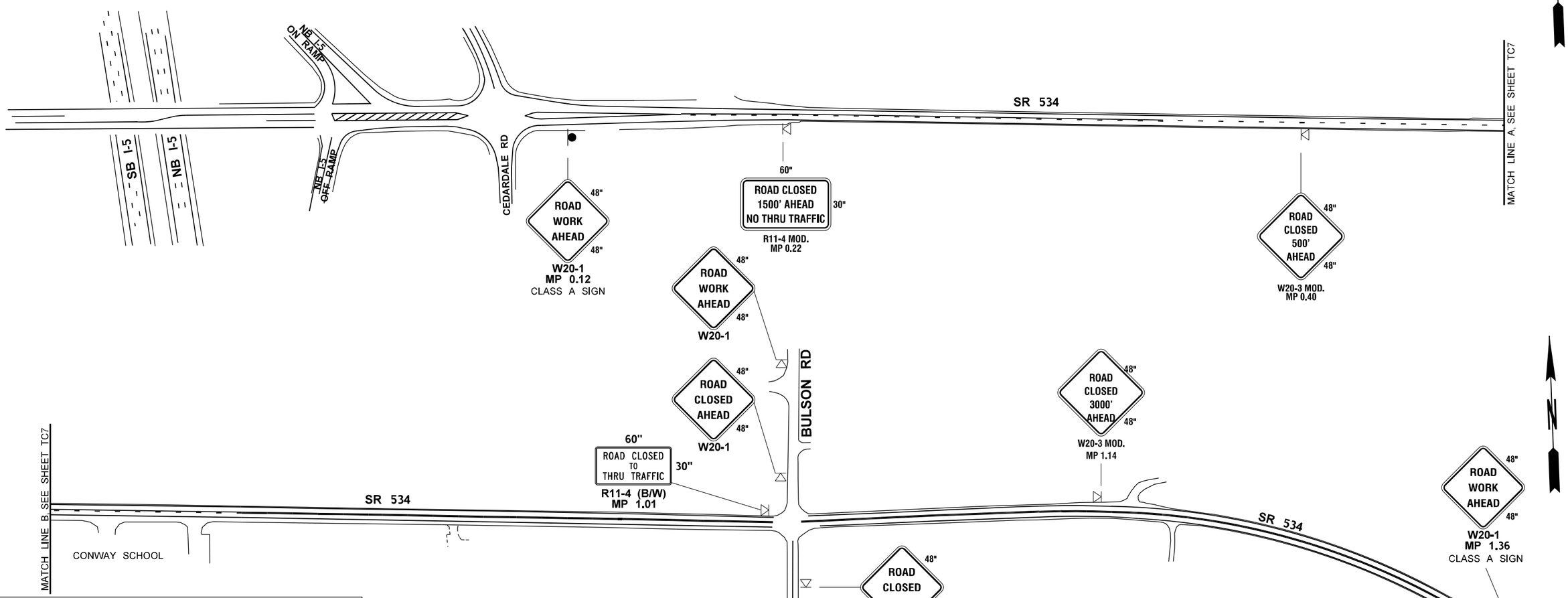
SR 534
UNNAMED TRIBUTARY TO CARPENTER CR
FISH PASSAGE

TRAFFIC CONTROL PLAN

Plot 22

PLAN REF NO TC5

SHEET 44 OF 48 SHEETS



LEGEND:

- WORK AREA
- CLASS B SIGN LOCATION
- CLASS A SIGN LOCATION
- TRAFFIC SAFETY DRUM - SEE SPECIAL PROVISIONS
- FLAGGER STATION
- TRANSPORTABLE ATTENUATOR (TA) OR PROTECTIVE VEHICLE
- TYPE 3 BARRICADE W/ TYPE C LIGHTS

GENERAL NOTES:

1. SEE SPECIAL PROVISIONS FOR WORK HOUR RESTRICTIONS.
2. RECOMMEND EXTENDING DEVICE TAPER (L/3) ACROSS SHOULDER.
3. ALL SIGNS ARE BLACK ON ORANGE UNLESS OTHERWISE DESIGNATED.

0 100 200
SCALE IN FEET

SR 534 FULL CLOSURE, MP 0.49 - MP 0.58

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DATE	10/4/2022
PLOTTED BY	hardoug
DESIGNED BY	B. BEEMER
ENTERED BY	J. MOE
CHECKED BY	A. WILLIAMS
PROJ. ENGR.	S. BEIER
REGIONAL ADM.	B. NIELSEN

REVISION | DATE | BY

REGION NO. 10 | STATE WASH | FED.AID PROJ.NO.

JOB NUMBER 22A021

CONTRACT NO. | LOCATION NO.

P.E. STAMP BOX DATE

P.E. STAMP BOX DATE

Washington State Department of Transportation

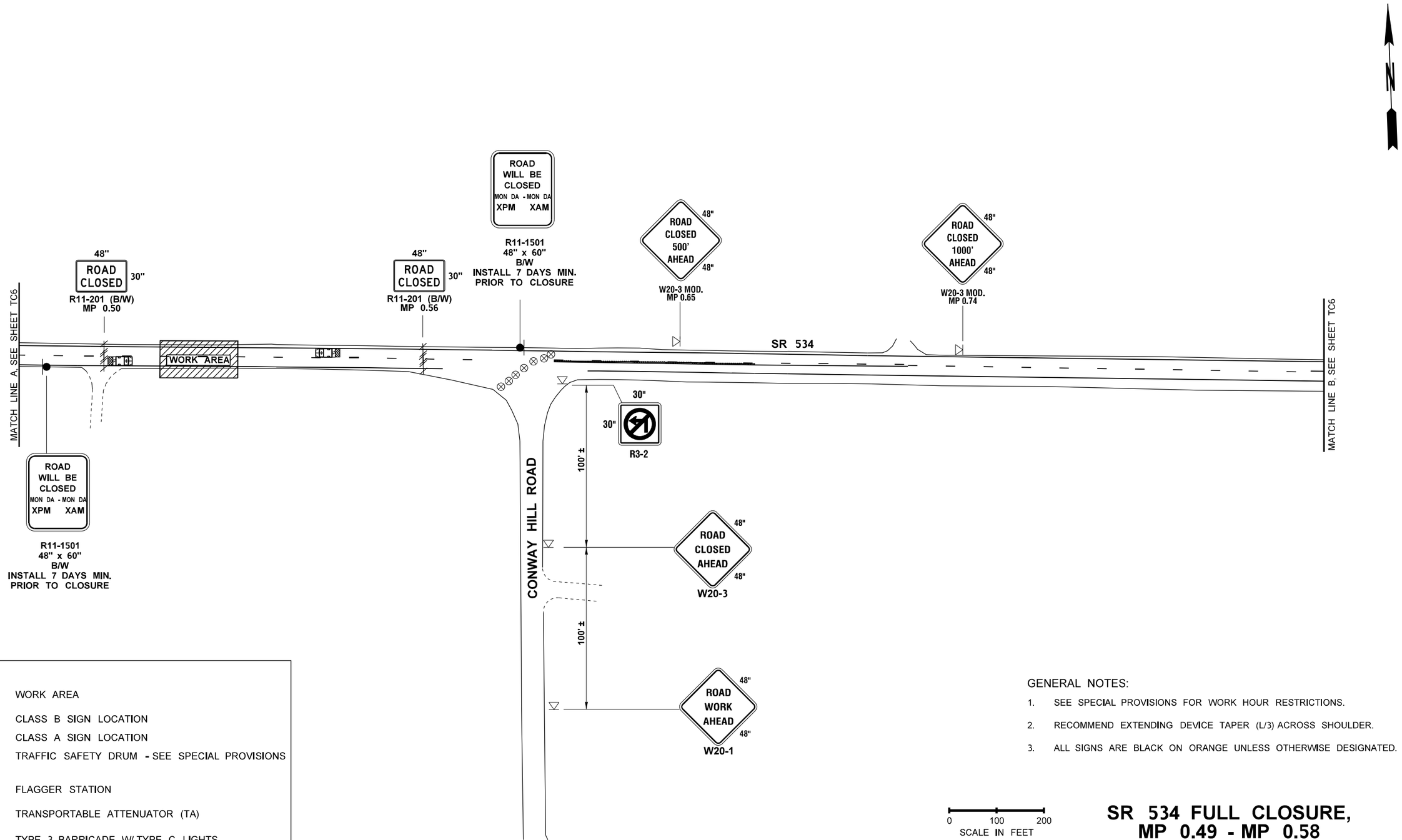
SR 534
UNNAMED TRIBUTARY TO CARPENTER CR
FISH PASSAGE

TRAFFIC CONTROL PLAN

Plot 1

PLAN REF NO TC6

SHEET 45 OF 48 SHEETS



LEGEND:

- WORK AREA
- CLASS B SIGN LOCATION
- CLASS A SIGN LOCATION
- TRAFFIC SAFETY DRUM - SEE SPECIAL PROVISIONS
- FLAGGER STATION
- TRANSPORTABLE ATTENUATOR (TA)
- TYPE 3 BARRICADE W/ TYPE C LIGHTS

GENERAL NOTES:

1. SEE SPECIAL PROVISIONS FOR WORK HOUR RESTRICTIONS.
2. RECOMMEND EXTENDING DEVICE TAPER (L/3) ACROSS SHOULDER.
3. ALL SIGNS ARE BLACK ON ORANGE UNLESS OTHERWISE DESIGNATED.

0 100 200
SCALE IN FEET

SR 534 FULL CLOSURE, MP 0.49 - MP 0.58

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ENTERED BY	J. MOE						
CHECKED BY	A. WILLIAMS				CONTRACT NO.		LOCATION NO.
PROJ. ENGR.	S. BEIER						
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY			

DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

Washington State Department of Transportation

SR 534
UNNAMED TRIBUTARY TO CARPENTER CR
FISH PASSAGE

TRAFFIC CONTROL PLAN

Plot 2
PLAN REF NO TC7
SHEET 46 OF 48 SHEETS

LEGEND

- - - - - -	DETOUR ROUTE
●	CLASS A SIGN LOCATION
(5)	SIGN FLAG NOTE - SEE CLASS A SIGN LEGEND ON SHEET DP2

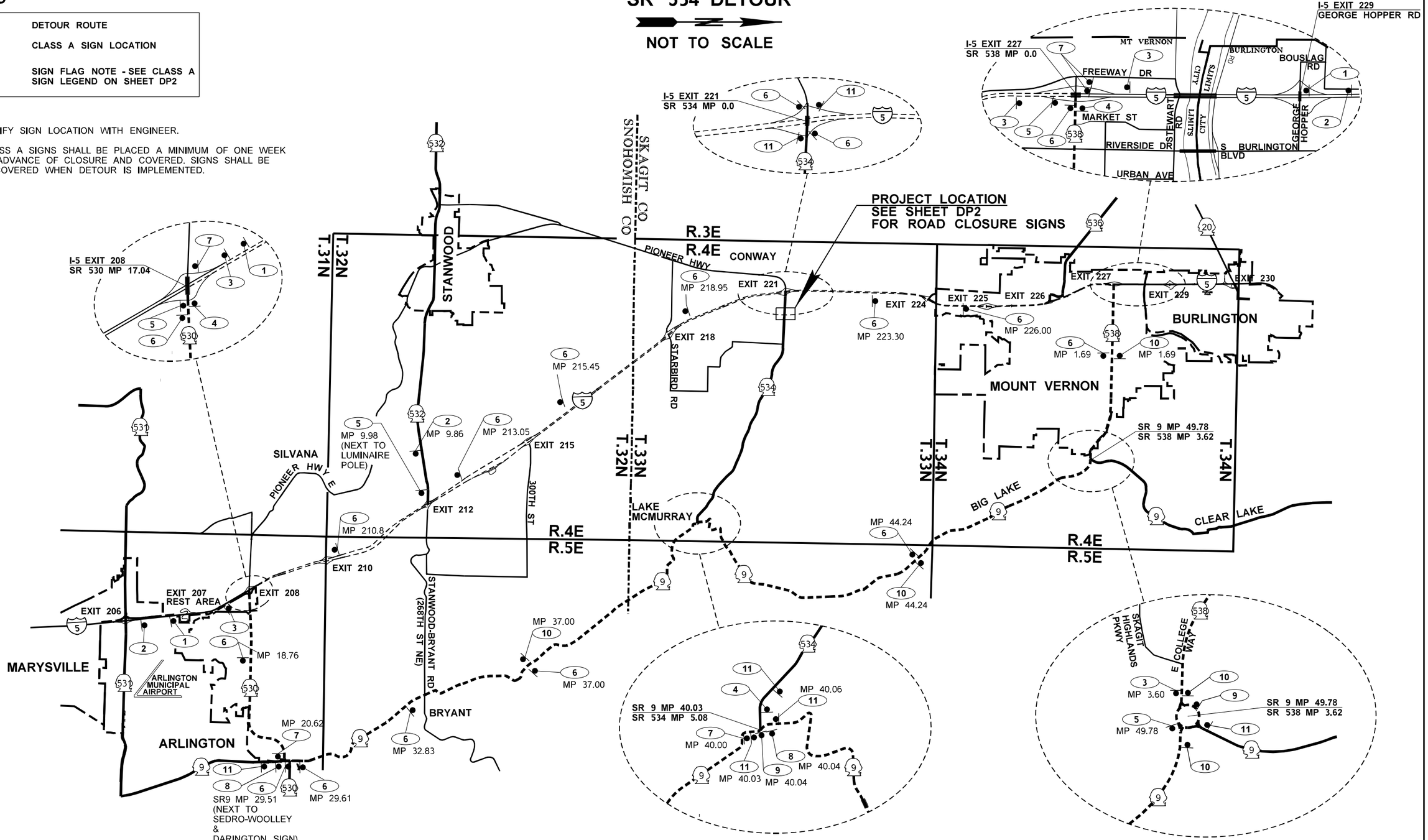
NOTES:

1. VERIFY SIGN LOCATION WITH ENGINEER.
2. CLASS A SIGNS SHALL BE PLACED A MINIMUM OF ONE WEEK IN ADVANCE OF CLOSURE AND COVERED. SIGNS SHALL BE UNCOVERED WHEN DETOUR IS IMPLEMENTED.

SR 534 DETOUR

N

NOT TO SCALE



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DESIGNED BY	B. BEEMER						
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CHECKED BY	A. WILLIAMS						
PROJ. ENGR.	S. BEIER						
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY			

P.E. STAMP BOX — DATE

P.E. STAMP BOX — DATE

Washington State
Department of Transportation

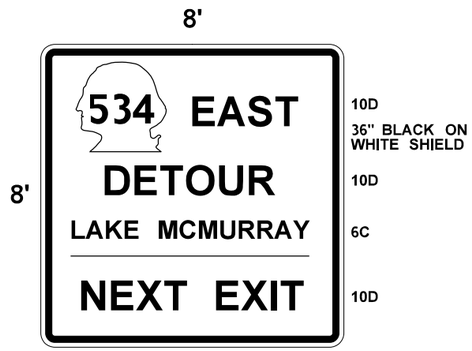
SR 534
UNNAMED TRIBUTARY TO CARPENTER CR
FISH PASSAGE

DETOUR PLAN

Plot 1

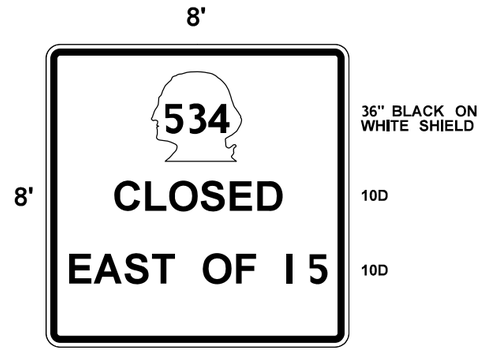
PLAN REF NO DP1

SHEET 47 OF 48 SHEETS



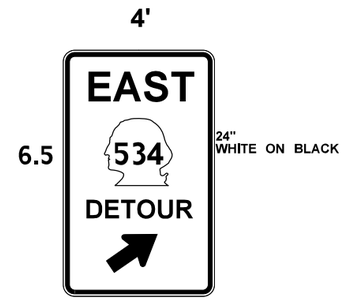
SPECIAL
3" CORNER RADIUS
1.5" MARGIN, 2" BORDER
BLACK ON ORANGE
2 POST MIN.

1



SPECIAL
3" CORNER RADIUS
1.5" MARGIN, 2" BORDER
BLACK ON ORANGE
2 POST MIN.

2

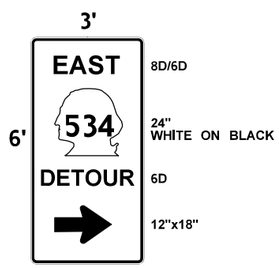


SPECIAL
4" CORNER RADIUS
3/4" MARGIN, 1 1/4" BORDER
BLACK ON ORANGE

3

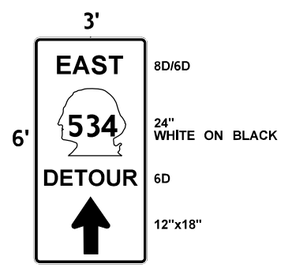
M4-8a
24" X 18"
BLACK ON ORANGE

4



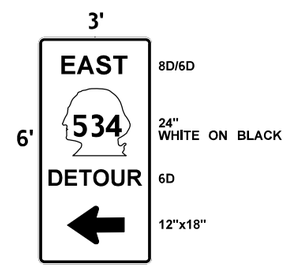
SPECIAL
2 1/4" RADIUS
5/8" MARGIN, 7/8" BORDER
BLACK ON ORANGE

5



SPECIAL
2 1/4" RADIUS
5/8" MARGIN, 7/8" BORDER
BLACK ON ORANGE

6



SPECIAL
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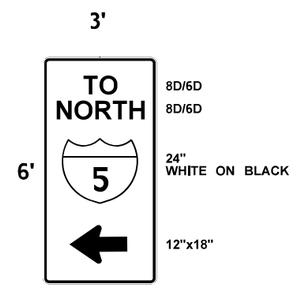
5/8" MARGIN, 7/8" BORDER
BLACK ON ORANGE

7



SPECIAL
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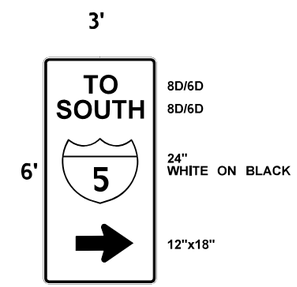

SPECIAL
2 1/4" RADIUS
5/8" MARGIN, 7/8" BORDER
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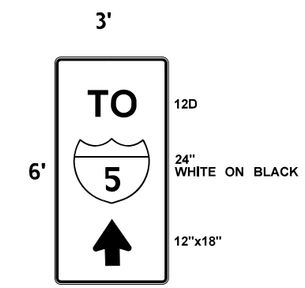
9



SPECIAL
2 1/4" RADIUS
5/8" MARGIN, 7/8" BORDER
BLACK ON ORANGE

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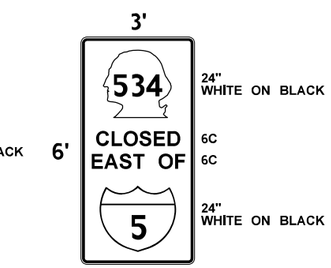

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11

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TIME	4:58:49 PM				REGION NO. 10	STATE WASH	FED.AID PROJ.NO.
DATE	10/4/2022						
PLOTTED BY	hardoug						
DESIGNED BY	B. BEEMER				JOB NUMBER 22A021		
ENTERED BY	B. SCHEI						
CHECKED BY	A. WILLIAMS				CONTRACT NO.		LOCATION NO.
PROJ. ENGR.	S. BEIER						
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY			

P.E. STAMP BOX DATE

P.E. STAMP BOX DATE

Washington State
Department of Transportation

SR 534
UNNAMED TRIBUTARY TO CARPENTER CR
FISH PASSAGE

DETOUR PLAN

Plot 2

PLAN REF NO
DP2

SHEET 48 OF 48 SHEETS

SHOCKER ELECTRIC

November 30, 2022

PRIME BIDDERS

Re: Unnamed Tributary to Carpenter Creek Fish Passage, Skagit County, WA #22A021.
BXWA Project #E7608. **Specification Section: 8-20 & 9-29.**

Estimator:

Shocker Electric is pleased to extend our bid proposal for **Unnamed Tributary to Carpenter Creek Fish Passage Project.** We acknowledge receipt of addenda No 1. Our bid proposal is quoted per the plans as follows: Sheet: IL1.

BID ITEM #75 ILLUMINATION SYSTEM 6904	LS	64,679.00

Exclusions:

Temporary Power, Lights & Heat	Trench, Backfill & Compaction, Approx. 175'
Junction Box Excavation	Concrete/Asphalt, Cut & Patch
Bond Premium Fee	Staking Survey & Layout
Overtime	Site Restoration
Taxes	Traffic Control

Shocker Electric will provide no other insurance coverage other than our current coverage. A sample insurance certificate is available from our office upon request. If requested, we will seek additional coverages at actual cost, if available.

Shocker Electric will accept no defense/indemnity except to pay damages to the extent caused by our own negligence or fault.

These exclusions supercede any language in Contractor's host document.

Thank you for the opportunity to provide this proposal. We look forward to working with you on this project.

T3 INDUSTRIAL

Office:
Fax:
Email:

Cont, Reg. MTWO11*088DQ
DBE# D2F0011551
WBE# W2F0011551

Quotation

WSDOT Project
SR 534
Unnamed Tributary to Carpenter Cr.
Bids: 11/30/2022

November 29th, 2022

Item #	Quantity	Item	Price	Ext.
4	25 LF	Removing Guardrail	$50.00 LF	$1,250.00
5	1 EA	Removing Guardrail Anchor	500.00 LF	$500.00
53	25 LF	Beam Guardrail Type 31 9 FT Long Post	$65.00 LF	$1,625.00
54	75 LF	Beam Guardrail Type 31 8 FT Long Post	$58.00 LF	$4,350.00
55	4 EA	Beam Guardrail Transition Section Type 24	$3,300.00 EA	$13,200.00
56	3 EA	Beam Guardrail Type 31 Non-Flared Terminal	$7,250.00 EA	$21,750.00

Total **$42,675.00**

Inclusions and Exclusions:

1. Certified DBE
2. Price excludes bond, traffic control, concrete, asphalt cutting, jackhammering, potholing or vac truck rental. Price also excludes survey and staking for all guardrail locations. **Price excludes Sales and/or Use Tax.**
3. Price includes 1 Mobilization for Guardrail. Additional mobilizations are $4,000.00 each.
4. Insurance to $3,000,000.00 aggregate.
5. Prices are good for 7 days from date on bid.
6. All utilities to be relocated from intended Guardrail locations by others. A two-foot clear zone is required for both overhead and buried utilities
7. **T3 INDUSTRIAL** Inc. Acknowledges 1 Addenda.
8. **Price excludes gravel pads for Non-Flared Terminals.**
9. **Price excludes overtime.**
10. **This quotation is to become a binding part of our subcontract with Prime Contractor.**
11. **Prices are quoted all or none except for items #4 and #5 which may be excluded.**

PATTERSON BROTHERS, INC.

Project Name: ***UNNAMED TRIB. TO CARPENTER CR FISH PASSAGE***

BID DATE: **11/30/2022**

PAY ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	EXTENSION
4	Removing Guardrail	25.00	L.F.	92.44	2,311.00
5	Removing Guardrail Anchor	1.00	EACH	924.41	924.41
53	Beam Guardrail Type 31 - 9 Ft. Long	25.00	L.F.	75.40	1,885.00
54	Beam Guardrail Type 31	75.00	L.F.	65.80	4,935.00
55	Beam Guardrail Transition Section Type 24	4.00	EACH	3,319.29	13,277.16
56	Beam Guardrail Type 31 Non-Flared Terminal	3.00	EACH	5,722.54	17,167.62
	TOTAL QUOTE				40,500.19

Name:
Phone:
Email:

This quote contains the following exclusions/qualifications:

****Price does not include traffic control unless specified.**
****Prices include material & installation, bond, and insurance.**
****This quote sheet to become part of any subcontract agreement.**
****Any deletion or change to above bid items must be agreed to prior to bid opening.**
****Beam Guardrail is available in 12.5' and 6.25' lengths.**
****Prices are good if the contract is received within 30 days after award of job, after 30 days prices must be renegotiated.**

IF ACCEPTED PLEASE SIGN AND FAX BACK TO 253-863-5951
NO WORK WILL BE PERFORMED WITHOUT PROPER AUTHORIZATION

By:_____

Title:_____

Company Name:_____

Address:_____

Date:_____

Phone:_____

Fax:_____

T3 INDUSTRIAL

Office:
Fax:
Email:

Cont, Reg. MTWO11*088DQ
DBE# D2F0011551
WBE# W2F0011551

Quotation

November 30th, 2022

WSDOT Project
SR 534
Unnamed Tributary to Carpenter Cr.
Bids: 11/30/2022

Item #	Quantity	Item	Price	Ext.
24	Up to 40 LF	BP-18 Rail (Contractor Designed Buried Structure)	$350.00 LF	$14,000.00
24	Up to 70 LF	Cable Fence (Contractor Designed Buried Structure)	$512.00 LF	$35,840.00

Total : $49,800.00

Inclusions and Exclusions:

1. Certified DBE # D2F0011551. VOB #M2IN0317
2. Price excludes bond, traffic control, concrete, asphalt cutting, jackhammering, potholing or vac truck rental. Price also excludes survey and staking for all Fence and Rail locations. **Price excludes Sales and/or Use Tax.**
3. Price includes 1 Mobilization for BP Rail, One for Cable Fence. Additional mobilizations are $4,000.00 each.
4. Insurance to $3,000,000.00 aggregate.
5. Prices are good for 7 days from date on bid.
6. Acknowledges 1 Addenda.

8 BP-Rail Anodized finish only
9. Cable Fence Galvanized finish only
10. Measurements and slopes provided by Prime Contractor before Fabrication
11. Price excludes overtime.
12. This quotation is to become a binding part of our subcontract with Prime Contractor.
13. Either item may be excluded.

LL LANDSCAPING

Date: **11/30/2022**

SR 534, Unnamed Tributary to Carpenter Creek Fish Passage

Bid only valid for 60 days after bid due date

Bid only valid for DAYTIME work

Item No.	Bid Qty	Unit	Bid Item Description	Size	Price/Unit	Amount
32	3025	LF	Compost Sock for Soil Stabilization		$ 10.50	$ 31,762.50
33	63	LF	Planted Compost Sock		$ 15.00	$ 945.00
35	1462	SY	Seeding, Fertilizing & Mulching		$ 1.80	$ 2,631.60
36	35	EA	Small Fruited Bulrush	3-4" plug	$ 6.00	$ 210.00
37	35	EA	Slough Sedge	3-4" Plug	$ 6.00	$ 210.00
38	35	EA	Salmonberry	1 Gal	$ 16.75	$ 586.25
39	35	EA	Pacific Nineark	1 Gal	$ 16.75	$ 586.25
40	35	EA	Douglas Spirea	1 Gal	$ 16.75	$ 586.25
41	868	LF	Brush Layer		$ 55.00	$ 47,740.00
42	632	LF	Fascines		$ 45.00	$ 28,440.00
43	1462	SY	Fine Compost	3" Deep	$ 7.25	$ 10,599.50
44	274	SY	Soil Amendment		$ 8.50	$ 2,329.00
45	268	SY	Bark or Woodchip Mulch		$ 8.25	$ 2,211.00
46	6	EA	Bark or Woodchip Mulch Rings		$ 35.00	$ 210.00
50	268	SY	Soil Decompaction		$ 10.75	$ 2,881.00
51	158	LF	Trench Planting		$ 86.00	$ 13,588.00
1	1	LS	Mobilization		$ 7,276.00	$ 7,276.00

Total Bid **$ 152,792.35**

MCDONALD DRILLING COMPANY INC.

November 30, 2022

Prime Contractor

ATTN: Estimating Department

RE: SR 534 Unnamed Tributary to Carpenter Creek Fish Passage
Deep Well Temporary Dewatering System
MDCI Proposal No. NW-22-293

McDonald Drilling Company, Inc. (MDCI) is pleased to provide this proposal for the installation of the dewatering system for the above-referenced project. Our proposal is based on the following unit prices, scope of work, and attached Standard Conditions (Rev. 03/18).

PROPOSAL IS BASED UPON THE FOLLOWING INFORMATION:

- Dewatering well quantities, depths, and layout based on soil and groundwater data presented in the geotechnical report, project drawings, and our experience in similar conditions.
- The fish passage excavation may require active dewatering using deep dewatering wells, "Temporary Dewatering System". Pricing is provided for six each 60-foot-deep small-diameter deep depressurization / dewatering wells consisting of 4-inch PVC well screen and casing installed in an 8-inch borehole, backfilled with filter sand/gravel and bentonite seal, generally on 50-foot centers with three wells on either side of the excavation.
- MDCI excludes: "Dewatering Plan"; ground settlement liability, analysis, monitoring, and mitigation; hydrant-like water source for drilling; power source for dewatering system; spoils handling and disposal; and other items listed below.

DEEP WELL DEWATERING SYSTEM SCOPE OF WORK:

- Mobilization of equipment, tooling, and materials to the site. Pricing includes one roundtrip mobilization.
- Drilling spoils handled by others.
- Drill and install dewatering wells.
- Provide and install electric submersible pumps (480-V 3-phase service) in the dewatering wells. These pumps will come with pump control boxes that will be installed at each well location.
- Well development water and drill water will be pumped at GC's direction.
- Provide and install common discharge header pipe. Each well will have a dedicated port to the common header pipe, each port will be equipped with a backflow preventer and a ball valve to control the flow of water. Water treatment and discharge by others.
- Provide electrical distribution panels to be energized by others (assume a 480-volt 3-phase service and that each individual well pump is 4 full load amps).

- Pricing assumes one follow up site visit from a dewatering specialist. Any additional site visits would be performed on a T&M basis.
- MDCI will train the contractor on the day-to-day operation of the system. If the contractor is unable to perform this work, MDCI will perform the work on a T&M basis.
- Provide permits to construct all wells with Washington State Department of Ecology (Ecology).
- Abandon wells per Ecology Standards and remove system when no longer in use.

  - MDCI understands that the soils at the site more than likely will not stay open during drilling, MDCI will have casing and equipment capable of fully casing the holes in the event that they need to be cased, and will need a hydrant-like water source provided by others for drilling.
  - MDCI has assumed that all monitoring will be performed by GC or others.
  - MDCI will need full tracking access to the site during drilling. This includes being able to walk the drill from hole to hole on ground capable of supporting equipment.
  - MDCI has assumed that all of the wells for each site will be installed under one mobilization, and that all of the wells and header pipe will also be removed at the same time.
  - MDCI has assumed that all sump pumping will be performed by others.
  - MDCI makes no guarantees to the site being dry, suitability of the soils, sub-grade, or compaction of the soils as a result of the dewatering system.

DEWATERING SYSTEM PRICING

ITEM	DESCRIPTION	QTY	UNIT	PRICE
1	TEMPORARY DEWATERING SYSTEM	1	LS	$123,900
2	ADDITIONAL MOBILIZATION	1	LS	$27,900

Note: For providing Payment and Performance Bonds, if required, ADD: Depends On Contract Value % of the contract amount.

CONSTRUCTION METHODS:

MDCI proposes to use track-mounted rotary drilling or sonic drilling equipment to complete boreholes to the specified diameters and depths for the dewatering system using the equipment that MDCI owns and uses for this work daily. The proposed means and methods are based upon our extensive experience with these techniques in similar subsurface conditions.

SEQUENCE & SCHEDULE:

- MDCI will work 5 days per week (Monday thru Friday), approximately 10 hours per day during drilling activities (7 AM to 5 PM).

ACCESS & UTILITIES:

- Clear access/egress shall be provided for MDCI to do its work. It's our assumption that any and all utilities that may conflict with borehole installation must be removed or relocated prior to MDCI's work. It has been assumed that there shall be no low overhead boreholes on this project.
- Prime Contractor shall provide suitable locations to allow MDCI to complete its work and staging (for material, tooling, cranes, etc.). Minimum staging area requirements are 100 feet by 150 feet, per each work area.
- MDCI requires that all work around the well site will have full access to the area the

dewatering needs to be installed, with the work completed in one phase.

SUPPLIED BY OTHERS:

- Spoil handling, stockpiling, loading, hauling or disposal shall be done in a timely manner so as not to interfere or slow production of the dewatering boreholes in any way.
- Hydrant-like water source.
- Treatment, testing and disposal of groundwater.
- Fuel and servicing for pumps or generators (oil filters and fuel filters must be changed on a weekly basis).
- MDCI assumes any and all interior sump pumping will be performed by others as may be needed.
- Installation, operation and regular cleaning of sumps, holding tanks, desilting basins, treatment or settlement ponds as may reasonably be required to pump water and/or drilling fluids from MDCI's work.
- Observation wells if needed.
- Dewatering design, calculations, testing, and logging of holes.
- Relocation of underground and overhead utilities.
- Discharge location preparations needed as to not erode the area during pumping.

CONTRACTUAL:

- MDCI assumes borings and the geotechnical report(s) to be accurate and material encountered shall be the same as borings represent.
- All obstructions and utilities (including overhead) are to be removed or relocated prior to the commencement of MDCI's work.
- Our estimate has been prepared with current pricing and availability provided by our suppliers. However, due to the current construction climate, we reserve the right to adjust the material costs presented herein to reflect the actual material costs at the time of notification to proceed, as the actual material costs are beyond our control.
- During the work, progress payments shall be made at least monthly. Progress payments shall include reimbursement of costs for all materials that have been purchased and/or satisfactorily fabricated, even if they have not yet been installed. Interest or late fees will be charged on all past due accounts, at 10% per annum. Retention, if withheld, shall be limited to no more than 5% of MDCI's earned payments. Full payment for MDCI work shall be made within 45 days after completion and acceptance of dewatering installation work. No payments shall be made with joint checks unless authorized in writing by MDCI. Payment of retention shall not be conditioned on payment from Owner.
- MDCI makes no guarantees of any kind as to the job being dry, the suitability or success of any dewatering system installation and/or operation. The Bid Proposal merely reflects our quotation on a specific number of wells, casing, etc. as specifically decided upon and agreed to by the Owner and/or the Prime Contractor.

SPECIFIC EXCLUSIONS:

While the attached Standard Conditions (Rev. 03/18) apply to this project, we wish to specifically emphasize the following exclusions:

- Field engineering, surveying and layout, including clearly marked center lines, grades, and offset stakes.
- The use of SBE, DBE, or MBE services.
- Ground settlement liability, analysis, evaluation, monitoring, reporting, or mitigation.

- System monitoring, easements and permission to encroach.
- Removal, verification, (including potholing by others), protection (including capping of side sewer laterals), or relocation of utilities.
- Safe access/egress including dry, level, firm, all-weather benches and ramps.
- Prime Contractor shall provide protection and repair, if needed, of any driveways, paved roadways, sidewalks, or other finished/unfinished areas.
- Mass excavation, clearing, grubbing and any demolition.
- Spoils handling, removal, disposal, including street cleaning and any ventilation and dust control measures.
- Trenching and or protection of wells, power cord and header pipe.
- **Trash bins or any disposal of non-salvaged materials.**
- Handling, disposal and fees for any waste water generated during dewatering installation and operation, including providing discharge points for water/fluids collected by dewatering system.
- **Flagging, traffic / pedestrian control; including any installation, removal or replacement of traffic control barricades, signs or other measures required for MDCI work operations.**
- Water Source (any and all costs associated with hydrant-use fees, permits, including Department of Ecology fees), water handling, storage, treatment, or disposal (including disposal and discharge permits, fees, etc.).
- Baker tanks for water storage.
- Any and all treatment and storage of all dewatering waters.
- Any and all leapfrogging and O&M of the dewatering systems.
- Any and all power including fuel to operate the dewatering system.
- Any and all sump pumping of waters not collected by the dewatering system.
- Obstructions to drilling (boulders, debris, existing structures, etc.).
- Overhead obstructions (buildings, trees, utility lines, etc.).
- Storm water pollution prevention plans or measures.
- Site security to ensure there is no damage to or theft of MDCI's equipment and tooling. This includes theft of the power cord r damage to the operating equipment.
- Sanitation facilities.
- **LEED specific material requirements or compliance (lagging, steel material, concrete waste, etc.).**
- Night work, including lighting.
- Any proposed subcontract provision which allows Prime Contractor to take-over MDCI's equipment, plant or tooling.
- Any proposed subcontract provision which requires MDCI to defend, indemnify and insure Prime Contractor / Owner in excess of MDCI's proportionate share in the total fault causing the loss or damage.
- Parking for crew.
- As-built drawings.
- Cost or charges associated with electronic billing/payment services (costs/charges to be borne by Prime Contractor or invoiced by MDCI as extra work).
- Responsibility or liability for cracking or settlement of any existing streets, sidewalks, curbs, gutters, utilities, pavement, buildings, or other improvements, or any other damages which may be caused by vibration of machinery or equipment or by drawdown, settlement or subsidence caused by dewatering installation and operation.
- Payment and performance bonds, permits, and sales tax.

INTEGRATED FABRICATION

Date: May 30, 2023

Attn: Bianca Guzman

Subject: Carpenter creek Culvert

Scope of Work:

INTEGRATED FABRICATION is pleased to provide the following Fixed Price bid as described below. We would be happy to meet with you to further refine this estimate, if needed. We have based our estimate on the drawing Bianca Guzman with Granite Construction sent to us.

I.F. proposes to do the following:

- **Weld 108 connection points varying between 5”x5 ½”x ¼” plates, 3”x 5”x ¼” plates, and 5” long 2”x 2” x ¼” angle with ¼” single pass filet welds.**

Schedule:

I.F. will complete the welds in two phases first being approximately 64 welds, the second being approximately 44 welds in two ten hour shifts using four welders.

Price:

all 108 Weld plates would be completed in a total of 80 man hours using core shield 8 welding wire. would complete the project operating on 1 shift with 4 welders in two phases. will also provide 1 project manager for 4 hours and 1 CWI 20 hours for visual inspections and 4 hours reporting time. For a fixed price of **$25,176.00**

Invoicing:

terms for this project are NET 30 and an invoice will be submitted to you at the end of each month or at the end of the project, whichever comes first.

Assumptions:

- This quote is valid for 30 days.
- **I.F HAS** unobstructed access during the 10-hour workday.
- **I.F TO** provide no materials.
- **I.F TO** Provide CWI for Visual Inspections only
- **I.F TO** provide 1 project manager for 4 hours for weld inspections.

Exclusions:

- Sales Tax
- All Permitting and inspection other than visual weld inspection.
- Engineering or Detailing
- Fire watches
- Paint and Coatings
- Weld plates and other materials

We appreciate feedback and the opportunity.

ACCEPTANCE AND AUTHORIZATION TO PROCEED:

_____**Date**_____

_____

PRINTED NAME

ATTACHMENT: STANDARD TERMS AND CONDITIONS (JAN 2021)

SLAM Geotechnical Services, LLC
Tacoma, WA

Project: Carpenter Creek Fish Passage
To: Granite Construction Company

SCOPE OF SERVICES:

Temporary Stream Diversion **$5,000.00 LS**

- Design with engineering calculations to develop pipe size and fittings for a single temporary diversion and pipe alignment. (double price if a secondary alignment design is required)
    - Submittal Package provides:
        - Professional Engineer State of Washington stamp
        - Engineered Calculations
        - Pump minimum requirements
    - Exclusion:
        - Field Inspections or site visits

Temporary Grading Plan **$5,500.00 LS**

- Design with engineering calculations to develop grading plan for open cut excavation for the culvert structure.
    - Submittal Package provides:
        - Professional Engineer State of Washington stamp
        - Engineered Calculations
        - Slope stability analysis for Contractor required slopes*
            - Crane ground bearing pressure shall be provided by Contractor
        - Construction drawings, notes, and details
    - Exclusions:
        - Temporary shoring plan design
        - Dewatering plan design
        - Implementation of grading plan
        - Field inspection or site visits

Clarifications & Assumptions:

Hourly rate for field inspections or site visits: $200/hr + travel time

*Assumed allowable slopes based on general review of the Geotechnical Report.

- 1.25H : 1V Slope
    - No surcharge or loading is allowed within 50 feet of top of slope
- 1.5H : 1V Slope
    - Equipment surcharge is acceptable within 10 feet of top of slope
    - Crane surcharge is acceptable within 20 feet of top of slope

Sincerely,
Sly A. Marcus, PE
Owner

D.C
Debbie & Charlie Engineering, Inc.

Temporary Forming Design & Calculations Pricing Sheet

To: Granite Construction Company
Project Owner & Name: WSDOT / Carpenter Creek Fish Passage Project

Code	Description	Qty	U/M	Unit Price	Total Amount
D1	**Two-Sided Wingwall Panel Formwork Design** Max. Wall Height = 20 feet	1	LS	$2,500.00	$2,500.00
D2	**Two-Sided Traffic Barrier & Soffit Design** Max. Barrier Height = 6 feet Overhang Soffit = 4.5" wide	1	LS	$2,000.00	$2,000.00
D3	**Wingwall Falsework Design** Falsework pad for creating a leveled surface to cast wingwalls	1	LS	$2,000.00	$2,000.00

General Clarifications:

- Design calculations and drawings included with WA State Professional Engineer seal
- Wingwall concrete assumed to be considered lightweight concrete
- Traffic barrier concrete assumed to be normal weight concrete
- Designs are based on standard wood form and framing material.
- Onsite visit is not included

Santa Rosa, CA

BASELINE TRAFFIC CONTROL

DBE# D4M5011474

TO: Kari Balogh	FROM:
COMPANY: Granite Construction Company	DATE: JULY 4, 2023
FAX/EMAIL: Kari.balogh@gcinc.com	TOTAL NO. OF PAGES INCLUDING COVER: 1
PHONE NUMBER:	PROJECT TITLE/NAME: SR534 Carpenter Creek Project (Flaggers Only)

RE: **TRAFFIC CONTROL PRICES**

- **Flaggers & Spotters**

ST $78.50/Hr. OT $100.58/Hr. DT $125.34/Hr.

Notes:

1. Items above is to be paid when the individual begins and ends the appointed shift. (WSDOT'S MEASUREMENT 1-10.4(2) SHALL NOT APPLY)

2. A work shift shall be in the increments per Laborer Union Agreement.

3. Granite's TCS is to submit time sheets for BCT's flaggers, and email to BTC TCS at the end of work week.

Thanks,

BASELINE TRAFFIC CONTROL

CONCRETE PROS

QUOTE FORM Quote #

Customer:	**All Bidders**	Customer #		Date:	10/25/22
Project Name:	North Creek Fish Passage			Contact:	Estimator
Job Address:	North Creek & 128th St SE Mill Creek			Phone #	
City/County:	Mill Creek, Snohomish		Effective: **1/1/23**	Fax #	
Map Page:				Email#	
General Contr.:				Expiration:	30 Days

Product Description	Mix #	■ Plant	Price Per Cubic Yard
Control Density Fill			
WSDOT CDF	WACDF	34	$126.70
All Other Concrete			
WSDOT Class 4000 Air	WA40003	34	$141.50
Three Sided Structure Units & Foundation Units			
6000 PSI 3/4" 6" Slump	6C36426	34	$147.00
Alt. Three Sided Structure Units & Foundation Units			
6000 PSI 3/4" 6" Slump Air	6C36476	34	$147.00

WA State Sick Leave Surcharge	**Add $1.00**
Environmental Surcharge	**Add $7.00**
Winter Heat (November 1st - March 31st)	**Add $4.50**
Fuel surcharge will apply (See attached chart)	
One Time Prevailing Wage or LCP Tracking Fee	**$500.00**

As a supplier, Cadman will not participate in Project Labor Agreements regardless if in main contract.

With approval, the below items are excellent additions for quality and in-place savings. Please ask.

Cadman Stealth (Mono Fibers) $9.00/CY - Cadman Commercial (Fibrillated Fibers) $12.00/CY - Specialty Fibers - Call for current pricing
Glenium (Superplasticizer) $0.40/oz - Non Chloride Accelerator $0.14/oz - Retarder (Delvo) $0.40/oz
Waterproofing Admixtures - Repelex, Xypex, Kryton - Available upon request

• ***Submitted mix design strengths are not guaranteed unless all ACI and ASTM standards are followed for sampling, storage, testing, and evaluation.***

See attached Terms & Conditions

■ READY MIX PLANT NUMBERS ■

REDMOND 50 ■ BELLEVUE 53 ■ SKY RIVER 30 ■ MILL CREEK 31 ■ WOODINVILLE 32 ■ EVETETT 33 ■ ISSAQUAH 51 ■ BLACK DIAMOND 40 ■ SEATTLE 54

SALES REPRESENTATIVE	*PHONE*	*EMAIL*

Acceptance of quote is acceptance of Cadman's Terms and Conditions, receipt of which is acknowledged.

Cadman will not accept backcharges for material shortages. Materials subject to availability. All prices based on full loads.

Quote is based on agreed products and quantities at bid time. Selective purchasing may void above pricing.

BUILDING MATERIALS STORE: **- CALL FOR A QUOTE - WE DELIVER !**

Notes: FAILURE TO SIGN AND RETURN WITHIN 30 DAYS OF BID DATE, WILL VOID THIS QUOTE.

Confirmed by: _____

Date: _____

Purchase Order : _____

COLUMBIA CONCRETE

Customer Name	GRANITE CONSTRUCTION COMPANY	Attention	
Project Name	UNNAMED TRIBUTARY TO CARPENTER CREEK FISH PASSAGE	City	MOUNT VERNON
Project Address	SR 534 AND CONWAY HILL RD	C/St	
Office Phone	Fax	Email	bids.everett@gcinc.com

Date 11/30/2022

Customer # 1008140

Cubic Yards	Mix Design Number	Description	Price	Per	Comments
	02LTW	TRINITY LIGHTWEIGHT CONCRETE	$419.50	CY	Light Weight Concrete for Wing Walls
	0340AP	4000PSI AEA WRA	$169.00	CY	Class 4000- Traffic Barrier
0.00	2282	Q C REQUIRED ONSITE	$250.00	EACH	
0.00	2315	DELAY SET	$0.27	FLOZ	DOSAGE DEPENDENT ON SACK CONTENT AND MINUTES OF DELAY DESIRED
0.00	2309	NON-CHLORIDE ACCELERATOR	$0.18	FLOZ	DOSAGE DEPENDENT ON WEATHER AND SACK CONTENT
Total		All aggregates meet ASTM C 33.			
0					

Comments : SURCHARGES-
WINTERTIME (EFFECTIVE NOV. 1ST- APRIL 1ST): $3.00 PER YARD
HEATED WATER (AS NEEDED NOV. 1ST- APRIL 1ST): $6.00 PER YARD
EXCESSIVE TRUCK STANDBY TIME MAY BE SUBJECT TO ADDITIONAL CHARGES
SATURDAYS: $17.50 PER YARD

ENVIRONMENTAL FEE PER LOAD: $50
FUEL SURCHARGE PER LOAD: $50

SURCHARGE PRICING SUBJECT TO CHANGE BASED ON MARKET CONDITIONS
ALL ORDERS MUST BE FIRMED UP 48 HOURS IN ADVANCE OR ARE SUBJECT TO A CANCELATION FEE
ALL DESIRED ADDITIVES MUST BE REQUESTED ON EACH ORDER

All other additives quoted as needed.

CPC Materials Inc. warrants that the concrete as delivered to this project will meet or exceed the design strength specified on the delivery ticket when evaluated in accordance with applicable ACI and ASTM standards.

Concrete is a natural product, therefore Seller cannot be responsible for variations in color, surface discoloration, popouts or variations in the finished product caused by finishing techniques or job site conditions.

CPC Materials Inc. reserves the right to postpone or cancel any quotes, current jobs or accepted deliveries if unable to perform due to raw material shortages, allocations or government regulations. Prices subject to change due to drastic cost changes of the major components of concrete or surcharges.

Concrete is batched and delivered at current ambient temperatures. Prices for temperature controlled concrete are available per Terms and Conditions on Page 2.

Contractor is responsible to provide safe access to the point of delivery. CPC Materials Inc. accepts no responsibility for damages to the premises beyond the curb line.

Customer shall provide and assume responsibility for an area or container for clean out of the concrete truck chutes.

Cancellations required 90 minutes prior to scheduled delivery.

Terms: All applicable sales taxes will be added to price.

Financing: All invoices are due and payable within 30 days of the original billing date. A Finance Charge of 1% per month on a pro-rated portion thereof (12% Annual Percentage Rate) will be charged upon all balances not paid within 30 days or first appearance on a Statement.

General Terms & Conditions of Sale Acceptance: We impose a surcharge of 2.25% on the transaction amount on all credit card products, which is not greater than our cost of processing. We do not surcharge debit cards.
CPC Materials Inc. Terms and Conditions are applicable and included as page two of this quote. If you did not receive a copy, please contact CPC Materials Inc sales department 360-424-6970
Pricing is valid with acceptance of a purchase order within 30 days of bid award.

COLUMBIA CONCRETE

Customer Name	GRANITE CONSTRUCTION COMPANY	Attention	Pete Welch
Project Name	SR 96 NORTH CREEK FISH PASSAGE	City	EVERETT
Project Address	620 128TH ST SE	C/St	
Office Phone	Fax	Email	John.Welch@gcinc.com

Date	10/25/2022
Customer #	1008140

Cubic Yards	Mix Design Number	Description	Price	Per	Comments
	0340AP	4000PSI AEA WRA	$136.00	CY	Class 4000- Wing Walls, Retaining Wall, Headwall and Moment Slab Barrier
	08STATE	STATE DOT CDF	$134.00	CY	
0.00	2315	DELAY SET	$0.27	FLOZ	DOSAGE DEPENDENT ON MINUTES OF DELAY DESIRED
Total		All aggregates meet ASTM C 33.			
0					
		Price Escalation of $10.00 Per CY on April 1, 2023			

Comments : SURCHARGES-
WINTERTIME (EFFECTIVE NOV. 1ST- APRIL 1ST): $3.00 PER YARD
HEATED WATER (AS NEEDED NOV. 1ST- APRIL 1ST): $6.00 PER YARD
EXCESSIVE TRUCK STANDBY TIME MAY BE SUBJECT TO ADDITIONAL CHARGES
SATURDAYS: $17.50 PER YARD
PREVAILING WAGE JOBS WILL HAVE A ONE TIME SETUP FEE OF $400.00
AS WELL AS AN INCREASE OF $10.00 /CY ADDED TO THIS QUOTE

Environmental: $50.00 Per LOAD
Fuel: $40.00 Per load

SURCHARGE PRICING SUBJECT TO CHANGE BASED ON MARKET CONDITIONS
ALL ORDERS MUST BE FIRMED UP 48 HOURS IN ADVANCE OR ARE SUBJECT TO A CANCELATION FEE
ALL DESIRED ADDITIVES MUST BE REQUESTED ON EACH ORDER

All other additives quoted as needed.

CPC Materials Inc. warrants that the concrete as delivered to this project will meet or exceed the design strength specified on the delivery ticket when evaluated in accordance with applicable ACI and ASTM standards.

Concrete is a natural product, therefore Seller cannot be responsible for variations in color, surface discoloration, popouts or variations in the finished product caused by finishing techniques or job site conditions.

CPC Materials Inc. reserves the right to postpone or cancel any quotes, current jobs or accepted deliveries if unable to perform due to raw material shortages, allocations or government regulations. Prices subject to change due to drastic cost changes of the major components of concrete or surcharges.

Concrete is batched and delivered at current ambient temperatures. Prices for temperature controlled concrete are available per Terms and Conditions on Page 2.

Contractor is responsible to provide safe access to the point of delivery. CPC Materials Inc. accepts no responsibility for damages to the premises beyond the curb line.

Customer shall provide and assume responsibility for an area or container for clean out of the concrete truck chutes.

Cancellations required 90 minutes prior to scheduled delivery.

Terms:	All pricing is net 30 days with a valid credit application on file. All applicable sales taxes will be added to price.
Financing:	All invoices are due and payable within 30 days of the original billing date. A Finance Charge of 1% per month on a pro-rated portion thereof (12% Annual Percentage Rate) will be charged upon all balances not paid within 30 days or first appearance on a Statement.
General Terms & Conditions of Sale Acceptance:	We impose a surcharge of 2.25% on the transaction amount on all credit card products, which is not greater than our cost of processing. We do not surcharge debit cards. CPC Materials Inc. Terms and Conditions are applicable and included as page two of this quote. If you did not receive a copy, please contact CPC Materials Inc sales department 360-424-6970 Pricing is valid with acceptance of a purchase order within 30 days of bid award.

Switchback Aggregates

Contractor
Job Name Unnamed Tributary to Carpenter Creek Fish Passage
Site Location SR 534, MP 0.49 to MP 0.69 Bid Date 11/30/2022

Quantity	Product Description	Unit	Product Code	Pit	Picked Up	Delivered Solo	Delivered Truck & Pup
440	Gravel Borrow	Ton	GB4	A4	$5.95		
250	Gravel Backfill for Walls	Ton	GB4	A4	$7.95		
100	Streambed Sand	Ton	SBS4	A4	$29.95		
1,340	Streambed Sediment	Ton	SBS4	A4	$36.95		
770	12" Streambed Cobbles	Ton	SBC12	A4	$17.95		
50	Streambed Boulder Type One	Ton	SBB1	A4	$45.00		
6	Quarry Spalls	Ton	OCM3	PQ	$16.95		
107	Crushed Surfacing Base Course	Ton	114C3	PQ	$17.95		
	Export Brush	CY	BR3	A3	$8.00		
	Export Dry Dirt/Soil	CY	DF3	BA	$6.00	Dumpsite BA located at 24944 Benham Road, Mt. Vernon	
	Export Wet Dirt/Soil	CY	DF3	BA	$18.00		
	Export Concrete/Asphalt	Ton	RC3	A3	$14.00		
						Solo	Truck/Pup
	Non Prevailing Wage Trucking	Hr				$140.00	$165.00
	Prevailing Wage Trucking	Hr				$195.00	$215.00
	(Trucking rates subject to change due to inflation/fuel cost)						

ABOVE PRICES INCLUDE ALL ENVIRONMENTAL CHARGES UNLESS NOTED, DELIVERIES ARE NOT QUOTED WITH PREVAILING WAGE RATES. Skagit Aggregates cannot guarantee any specification as many products are recyled. One material analysis is provided, additional testing will be subject to charges above the quoted pricing. All products subject to architech approval

Sales Tax: All material will be subject to sales tax unless a reseller permit is provided

Terms: Payment is due on the 10th of the month following delivery. WE PROPOSE TO FURNISH MATERIAL COMPLETE IN ACCORDANCE WITH ABOVE SPECIFICATIONS FOR THE CONTRACTORS USE AT THE SPECIFIC JOB AND LOCATION LISTED ABOVE, THIS PROPOSAL MAYBE WITHDRAWN BY US IF NOT ACCEPTED WITHIN 90 DAYS. ACCEPTANCE OF PROPOSAL - THE ABOVE PRICES, SPECIFICATIONS AND CONDITIONS ARE SATISFACTORY AND HEREBY ACCEPTED.

Signature _____ Date of Acceptance _____

Locations

A2- State Pit M279	A3- State Pit M272	A4- State Pit M281	A5- State Pit M236	A6- State Pit M283
Day Creek	Big Rock	Big Lake	Rockport	Birdsview
20881 South Skagit Hwy	14107 State Route 9	20983 State Route 9	50796 State Route 20	7816 Grandy Lane
Sedro Woolley, WA 98284	Mt. Vernon, WA 98273	Mt. Vernon, WA 98274	Concrete, WA 98237	Concrete, WA 98237

HANKS GEOSYNTHETICS

Heavy Civil & Erosion Control Contractors choose HANKS Geo Components as their trusted partner to provide first quality stabilization fabrics, geogrids and stormwater compliance products at an honest price.

Project Name:	WSDOT Unnamed Tributary to Carpenter Creek Fish Passage	**Project Id:**	22-11-031
Company:	**Washington Bidder**		
Attn:	**Estimator**	**Phone:**	
E-mail:		**Fax:**	

"The following estimated quantities are provided for informational purposes only; the contractor is responsible for determination of the material quantities used in preparation of the bid"

CONFIDENTIAL MATERIAL QUOTATION - 30 DAY PRICE GUARANTEE

Product	Product Description	Comment	Quantity	Unit Price	UOM	Unit Total
87139	COMPOST FILTER SOCK 12”	Bid item 32: Compost Sock For Soil Stabilization (10' or 100' lengths) - *includes 36" stakes and delivery to jobsite.	3,025	$5.88	LF	$17,787.00
38231	TERRATEX HD 15'X300' 500 SY	Bid item 77: Construction Geotextile for Soil Stabilization	905	$0.70	SY	$633.50
32141	STRATAGRID SGU150 6.25'X288' 200SY	Bid item 78: Geosynthetic Base Reinforcement - LTDS=5,858 lbs/ft	425	$2.45	SY	$1,041.25
88071	FREIGHT	Estimated freight for Geotextile/Geosynthetics	1	$650.00	EA	$650.00

Subtotal	$20,111.75
+ Estimated Freight	SEE ABOVE
Estimated Project Total	$20,111.75

***Tax Not Included**

Footnotes:

1. Pricing guaranteed for 30 days. Subject to confirmation and order acceptance at the time of order placement.
2. Freight cost is estimated and assumes all product ships to one location at one time. Freight shall be requoted at time of order. Additional deliveries will have additional freight charges applied.

Terms of Sale

Prices are FOB origin unless stated otherwise. Unloading by others. Payments are net 30 days from date of invoice, subject to credit approval. Sales tax is not included: ADD when applicable. Prices quoted apply only to the project specified herein. The prices quoted herein shall remain in effect for 30 days from the date of this quotation. Seller reserves the right to adjust the prices after 30 days from the date of quotation. Buyer must notify seller in writing of any special provisions required for each job such as material needed to meet any ARRA or buy American requirements. Prior to quotation of pricing and delivery. Failure to do so will result in the assumption that no special provisions apply. For shipments that are less than a full truck load and less than $750 dollars, additional delivery charges will apply and pricing is based on one delivery.
THE TERMS OF THIS SALE ARE SUBJECT TO LEGGETT & PLATT, INCORPORATED'S STANDARD TERMS AND CONDITIONS WHICH ARE LOCATED AT

Accepted:

Subject to being awarded the contract we hereby order the material described above at the prices specified subject to all terms and conditions appearing on this quotation.

By: **Title:**

Ship to Address: **Date:**

JOHANSEN CONCRETE, INC

Quotation PS113022A-1

Quotation Date: 11/22/22
Revision No: 1

Project Name: Carpenter Creek Culvert
Payment Terms: Net 30 Days

Delivery Address:
GRANITE CONSTRUCTION
FOB Jobsite
Carpenter Creek
, , ,

Group	Part No	Description	Shipping Code	Qty	Unit	Unit Price	Net Amount
	Q10127	Item #24 Contractor Designed Buried Structure Culvert only 12' x 12' x 50' clear span (actual culvert will be 15' wide to allow for corner fillets) Heaviest Approx 52k #'s each 45 degree skew	Delivered FOB Truck	1	ft	463,500.00	463,500.00
	Q10127	Wing Walls for same culvert (lightweight concrete) Heaviest Approx 38k #'s	Delivered FOB Truck	1	ft	185,225.00	185,225.00
	Q10127	Approach Slabs Precast version of WSDOT detail 16-2008 Aprrox 45k #'s each	Delivered FOB Truck	1	ft	182,750.00	182,750.00

Quotation Notes

Includes shop drawings with calc's, weld plates, dowels, FOB Jobsite.
Approx (10) base sections of culverts, (10) top sections, (2) with traffic barrier, (12) sections of Wing Wall, (8) sections of Approach Slabs. Approach slab will connect to the corbel on the sides of the culvert with PT duct holes and dowel provided.
Conctractor will need a two line crane with rigging to offload and install parts, provided grout, welding, shims, electrical conduit, and traffic barrier by others.
No coatings, dunnage, shims, grout, membrane, special inspection, or sales tax included.
Electrical conduits installed by others.
(

Net Total:	**831,475.00**
Estimated Tax:	**0.00**
Gross Total	**831,475.00**

All orders are subject to credit acceptance by seller.
A 3% credit card service fee may be added for all credit card payments.
Delivery trips, setting time, or materials not noted above will be billed accordingly.
Offer to sell subject to Johansen Concrete's company policies, terms, and conditions.

All specialized product may be subject to a deposit prior to submittals and/or fabrication.
Quotation is valid for 30 days.
Thank you for choosing Johansen Concrete Inc!

JOHANSEN **CUSTOMER Signature** **Date**

JOHANSEN **CUSTOMER PO**

Home Owner: Jeff Adams
Owner Address: 19651 State Route 534, Mount Vernon, WA 98274

Monthly Rate to temporary construction access onto Homeowner's property: $2,500/month
Temporary Property Limits: See map and dimensions below, approximately 14,500 SF

<u>Land Use Inclusions & Clarifications:</u>

- Temporary construction access within the limits shown in Attachment A
- Contractor is response to restore all disturbed areas to its original grade and seeded
- 30-day notice is required before entering premises
- Perimeter of temporary construction access shall be fenced off by Contractor during construction activities
- Homeowner is not responsible for permits or utility relocations
- Contractor is responsible for all damages within temporary property limits during construction activities.