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13 - 14	TB1 - TB2	TEMPORARY BYPASS PLAN
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17	TPB1	TEMPORARY PEDESTRIAN BYPASS PLAN
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19	AL1	ALIGNMENT AND RIGHT OF WAY PLAN
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54	PVD1	PAVING DETAILS
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115 - 118	CS1 - CS4	CONSTRUCTION SIGNING PLAN
119	DU1	DETOUR PLAN

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\XL6549 SR 544 Nooksack Overflow Repair_CAE\CAD\ContractPlans\XL6549_010_PS_IN.dgn				
TIME	4:30:59 PM			REGION NO. 10	STATE WASH
DATE	9/24/2026				
PLOTTED BY	hardoug			JOB NUMBER 26A012	FED.AID PROJ.NO. 2C01006-4
DESIGNED BY	D. HARRIS				
ENTERED BY	D. HARRIS				
CHECKED BY	E. WINTER			CONTRACT NO.	LOCATION NO.
PROJ. ENGR.	S. BEIER				
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY	

P.E. STAMP BOX — DATE

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Washington State Department of Transportation

SR 544
NOOKSACK RIVER OVERFLOW CULVERT ER PERMANENT REPAIR

INDEX

Plot 1

PLAN REF NO IN1

SHEET 1 OF 119 SHEETS

PROJECT LICENSED PROFESSIONAL CERTIFICATES

Spencer Beier 10/06/2026 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 09/30/2026 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.	Amy Leland 09/30/2026 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.	Brian Aldrich 09/30/2026 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.	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.	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.

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.

FILE NAME	T:\412334\XL6549 SR 544 Nooksack Overflow Repair_CAE\CAD\ContractPlans\XL6549_031_PS_CT.dgn						
TIME	4:30:35 PM						
DATE	9/24/2026						
PLOTTED BY	hardoug						
DESIGNED BY	D. HARRIS						
ENTERED BY	D. HARRIS						
CHECKED BY	E. WINTER						
PROJ. ENGR.	S. BEIER						
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY			

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER		
26A012		
CONTRACT NO.		LOCATION NO.

P.E. STAMP BOX — DATE

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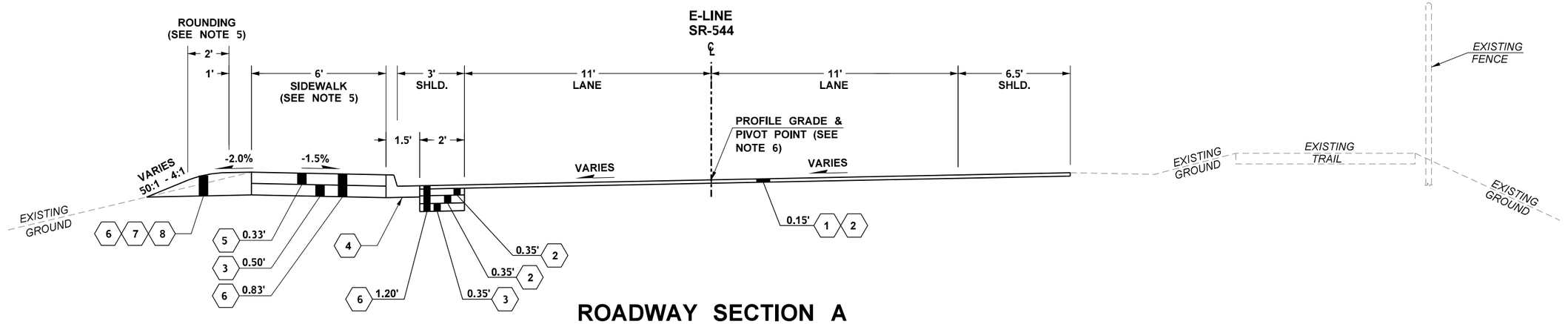
SR 544
NOOKSACK RIVER OVERFLOW CULVERT
ER PERMANENT REPAIR

CERTIFICATION SHEET

Plot 1

PLAN REF NO
CT1

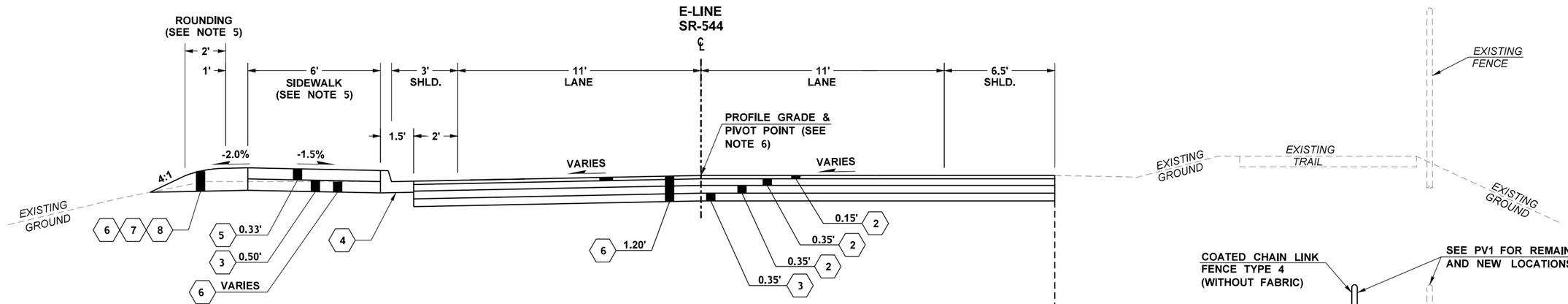
SHEET 7 OF 119 SHEETS



ROADWAY SECTION A

STA. E 398+89.7 TO STA. E 400+93.3

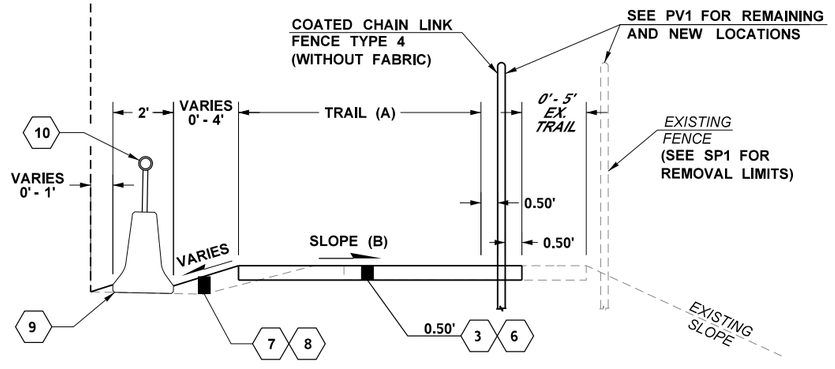
NOT TO SCALE



ROADWAY SECTION B

STA. E 400+93.3 TO STA. E 402+52.3

NOT TO SCALE



ALTERNATE SHOULDER

STA. E 401+86.4 TO STA. E 402+52.2

NOT TO SCALE

STATION	WIDTH A	SLOPE B
E 402+15.0 TO E 402+23.7	12.0'	2.83% TO 2.05%
E 402+23.7 TO E 402+52.2	12.0' TO 10.2'	2.05% TO -0.56%

LEGEND

1. PLANING BITUMINOUS PAVEMENT
2. HMA CL. 1/2 IN. PG 58H-22
3. CRUSHED SURFACING BASE COURSE
4. CEMENT CONC. TRAFFIC CURB AND GUTTER
5. CEMENT CONC. SIDEWALK
6. ROADWAY EXCAVATION INCL. HAUL*
7. GRAVEL BORROW INCL. HAUL*
8. EMBANKMENT COMPACTION*
9. PRECAST CONC. BARRIER TYPE F UNANCHORED
10. BRIDGE RAILING TYPE BP-22

* INCLUDED IN BID ITEM "EARTHWORK", L.S.

GENERAL NOTES:

1. ALL SURFACING AND PAVING DEPTHS ARE COMPACTED DEPTHS AND COURSES SHALL NOT EXCEED THE DEPTHS DEFINED IN THE STANDARD SPECIFICATIONS.
2. EXISTING GROUND IS SHOWN FOR INFORMATIONAL PURPOSES ONLY.
3. SEE SHEETS QTPV1 AND PV1 FOR ADDITIONAL CONC. BARRIER AND FENCE LOCATION INFORMATION.
4. SEE SHEET PV1 FOR THE PAVING LIMITS. LOCATIONS OF PLANING SECTIONS SHOWN ON SHEET PV1 TO BE PAID WITH THE BID ITEM "PLANING BITUMINOUS PAVEMENT".
5. SEE STANDARD PLAN F-30.10 FOR CEMENT CONCRETE SIDEWALK AND BACKSLOPE ROUNDING DETAILS.
6. SEE SUPERELEVATION DIAGRAMS ON PROFILE SHEETS FOR VARIABLE CROSS SLOPES.

FILE NAME	T:\412334\XL6549 SR 544 Nooksack Overflow Repair_CAE\CAD\ContractPlans\XL6549_050_PS_RS.dgn				REGION NO. 10	STATE WASH
TIME	4:33:41 PM					
DATE	9/24/2026					
PLOTTED BY	hardoug					
DESIGNED BY	D. HARRIS				JOB NUMBER 26A012	FED.AID PROJ.NO.
ENTERED BY	D. HARRIS					
CHECKED BY	E. WINTER				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

SEE SHEET CT1

DATE

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DATE

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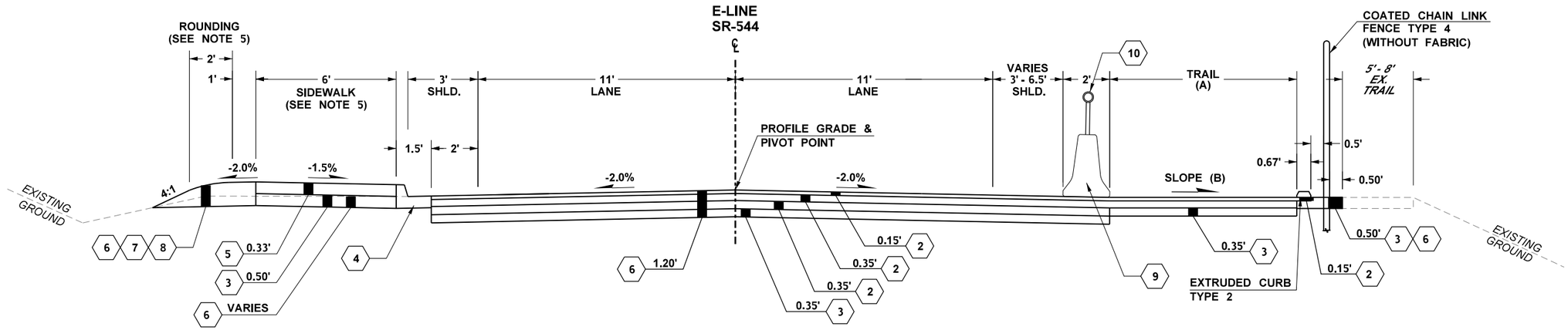
SR 544
NOOKSACK RIVER OVERFLOW CULVERT ER PERMANENT REPAIR

ROADWAY SECTIONS

Plot 1

PLAN REF NO RS1

SHEET 8 OF 119 SHEETS



ROADWAY SECTION C

STA. E 402+52.2 TO STA. E 402+68.0

NOT TO SCALE

STATION	WIDTH A	SLOPE B
E 402+52.2 TO E 402+68.0	10.2' TO 8.0'	-0.56% TO -2.00%

LEGEND

2	HMA CL. 1/2 IN. PG 58H-22
3	CRUSHED SURFACING BASE COURSE
4	CEMENT CONC. TRAFFIC CURB AND GUTTER
5	CEMENT CONC. SIDEWALK
6	ROADWAY EXCAVATION INCL. HAUL*
7	GRAVEL BORROW INCL. HAUL*
8	EMBANKMENT COMPACTION*
9	PRECAST CONC. BARRIER TYPE F UNANCHORED
10	BRIDGE RAILING TYPE BP-22

* INCLUDED IN BID ITEM "EARTHWORK", L.S.

GENERAL NOTES:

1. ALL SURFACING AND PAVING DEPTHS ARE COMPACTED DEPTHS AND COURSES SHALL NOT EXCEED THE DEPTHS DEFINED IN THE STANDARD SPECIFICATIONS.
2. EXISTING GROUND IS SHOWN FOR INFORMATIONAL PURPOSES ONLY.
3. SEE SHEETS QTPV1 AND PV1 FOR ADDITIONAL CONC. BARRIER AND FENCE LOCATION INFORMATION.
4. SEE SHEET PV1 FOR THE PAVING LIMITS. LOCATIONS OF PLANING SECTIONS SHOWN ON SHEET PV1 TO BE PAID WITH THE BID ITEM "PLANING BITUMINOUS PAVEMENT".
5. SEE STANDARD PLAN F-30.10 FOR CEMENT CONCRETE SIDEWALK AND BACKSLOPE ROUNDING DETAILS.
6. SEE SUPERELEVATION DIAGRAMS ON PROFILE SHEETS FOR VARIABLE CROSS SLOPES.

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DATE	9/24/2026			
PLOTTED BY	hardoug			
DESIGNED BY	D. HARRIS			
ENTERED BY	D. HARRIS			
CHECKED BY	E. WINTER			
PROJ. ENGR.	S. BEIER			
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY

REGION NO. 10 | STATE WASH

JOB NUMBER 26A012

CONTRACT NO.

FED.AID PROJ.NO.

LOCATION NO.

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

SEE SHEET CT1

DATE

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DATE

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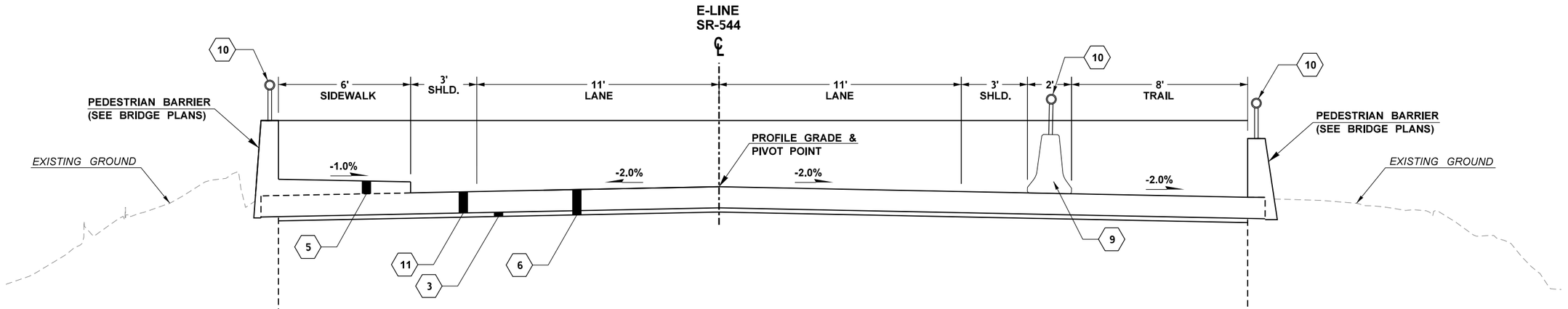
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NOOKSACK RIVER OVERFLOW CULVERT
ER PERMANENT REPAIR

ROADWAY SECTIONS

Plot 2

PLAN REF NO RS2

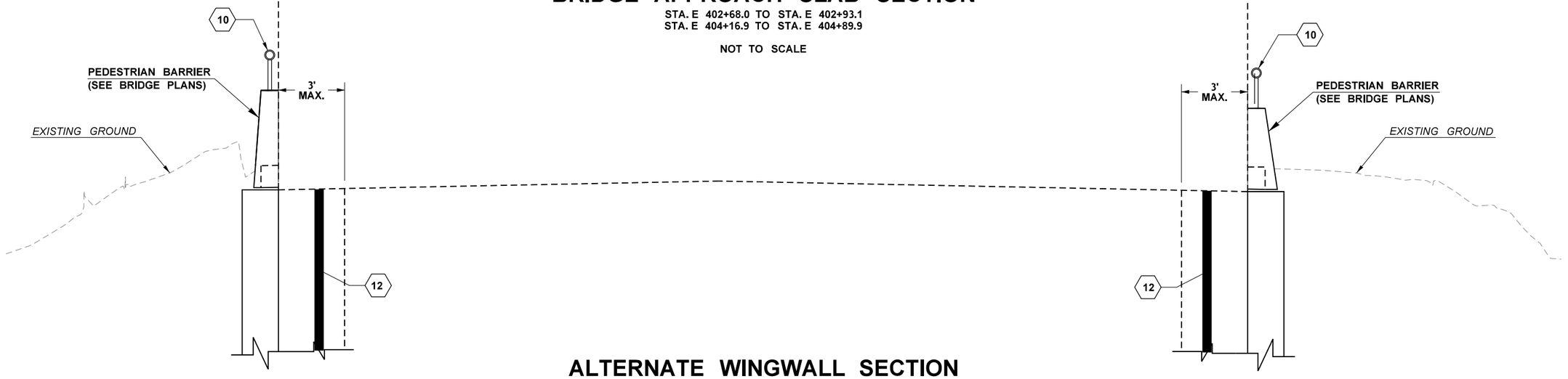
SHEET 9 OF 119 SHEETS



ROADWAY SECTION D
BRIDGE APPROACH SLAB SECTION

STA. E 402+68.0 TO STA. E 402+93.1
STA. E 404+16.9 TO STA. E 404+89.9

NOT TO SCALE



ALTERNATE WINGWALL SECTION

STA. E 402+78.6 TO STA. E 402+93.1
STA. E 404+16.9 TO STA. E 404+31.2

NOT TO SCALE

LEGEND

- 3 — CRUSHED SURFACING BASE COURSE
- 5 — CEMENT CONC. SIDEWALK
- 6 — ROADWAY EXCAVATION INCL. HAUL*
- 9 — PRECAST CONC. BARRIER TYPE F UNANCHORED
- 10 — BRIDGE RAILING TYPE BP-22
- 11 — BRIDGE APPROACH SLAB
- 12 — STRUCTURE EXCAVATION CLASS A INCL. HAUL*

* INCLUDED IN BID ITEM "EARTHWORK", L.S.

GENERAL NOTES:

2. EXISTING GROUND IS SHOWN FOR INFORMATIONAL PURPOSES ONLY.
7. SEE BRIDGE PLANS FOR BRIDGE DECK, BRIDGE APPROACH SLAB, WINGWALL, SIDEWALK, BARRIER AND BRIDGE RAILING DETAILS.

FILE NAME	T:\412334\XL6549 SR 544 Nooksack Overflow Repair_CAE\CAD\ContractPlans\XL6549_050_PS_RS.dgn				REGION NO.	STATE	FED.AID PROJ.NO.
TIME	4:33:51 PM				10	WASH	
DATE	9/24/2026				JOB NUMBER		
PLOTTED BY	hardoug				26A012		
DESIGNED BY	D. HARRIS				CONTRACT NO.		LOCATION NO.
ENTERED BY	D. HARRIS						
CHECKED BY	E. WINTER						
PROJ. ENGR.	S. BEIER						
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY			

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

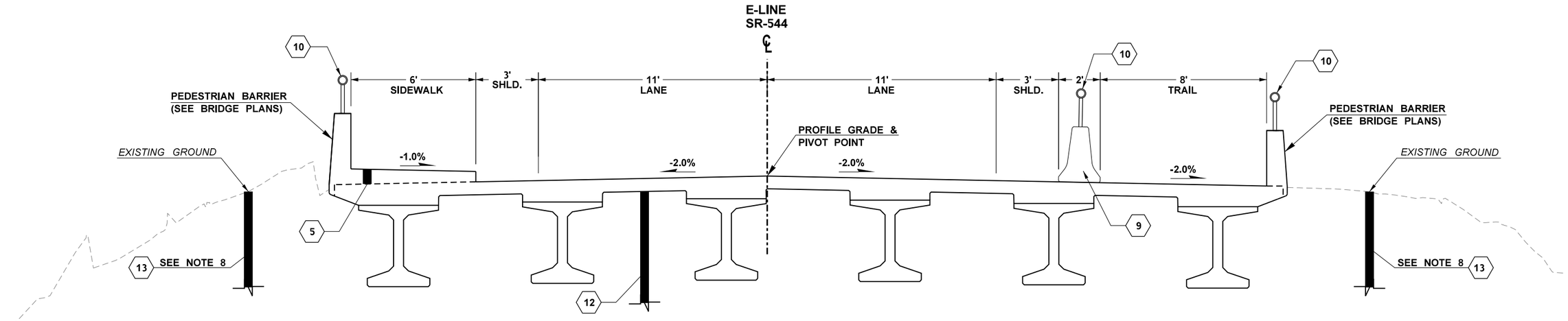
DATE
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SR 544
NOOKSACK RIVER OVERFLOW CULVERT ER PERMANENT REPAIR

ROADWAY SECTIONS

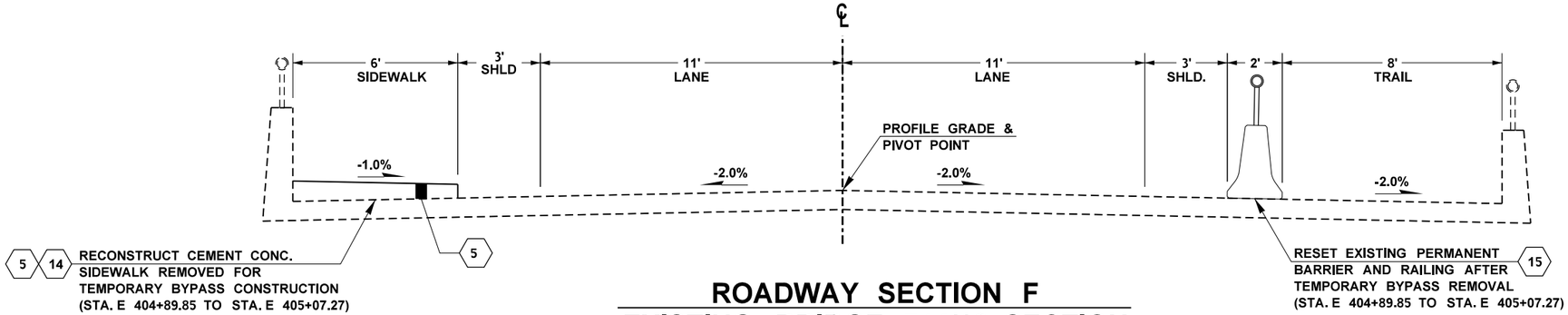
Plot 3
PLAN REF NO RS3
SHEET 10 OF 119 SHEETS



ROADWAY SECTION E
BRIDGE 544/9C SECTION

STA. E 402+93.1 TO STA. E 404+16.9

NOT TO SCALE



ROADWAY SECTION F
EXISTING BRIDGE 544/10 SECTION

STA. E 404+89.9 TO STA. E 406+54.6

NOT TO SCALE

LEGEND

- 5 CEMENT CONC. SIDEWALK
- 9 PRECAST CONC. BARRIER TYPE F UNANCHORED
- 10 BRIDGE RAILING TYPE BP-22
- 12 STRUCTURE EXCAVATION CLASS A INCL. HAUL*
- 13 CHANNEL EXCAVATION INCL. HAUL*
- 14 REMOVING CEMENT CONC. SIDEWALK
- 15 REMOVING AND RESETTING EXISTING PERMANENT BARRIER

* INCLUDED IN BID ITEM "EARTHWORK", L.S.

GENERAL NOTES:

2. EXISTING GROUND IS SHOWN FOR INFORMATIONAL PURPOSES ONLY.
7. SEE BRIDGE PLANS FOR BRIDGE DECK, BRIDGE APPROACH SLAB, WINGWALL, SIDEWALK, BARRIER AND BRIDGE RAILING DETAILS.
8. SEE SHEET OCP1 FOR EXTENT OF CHANNEL EXCAVATION INCL. HAUL.

FILE NAME	T:\412334\XL6549 SR 544 Nooksack Overflow Repair_CAE\CAD\ContractPlans\XL6549_050_PS_RS.dgn				REGION NO.	STATE	FED.AID PROJ.NO.	Plot 4
TIME	4:33:56 PM				10	WASH		PLAN REF NO RS4
DATE	9/24/2026				JOB NUMBER			
PLOTTED BY	hardoug				26A012			SHEET 11 OF 119 SHEETS
DESIGNED BY	D. HARRIS				CONTRACT NO.		LOCATION NO.	
ENTERED BY	D. HARRIS							
CHECKED BY	E. WINTER							
PROJ. ENGR.	S. BEIER							
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY				

SPENCER T. BEIER — STATE OF WASHINGTON — 36008 — REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1

DATE

P.E. STAMP BOX

DATE

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NOOKSACK RIVER OVERFLOW CULVERT ER PERMANENT REPAIR

ROADWAY SECTIONS

QUANTITY TABULATION - TEMPORARY BYPASS

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 →	REMOVING PLASTIC LINE L.F.		TEMPORARY BARRIER L.F.	REMOVING AND RESETTING EXISTING PERMANENT BARRIER L.F.	BARRIER DELINEATOR EACH		TEMPORARY PAVEMENT MARKING - LONG DURATION L.F.		GRAVITY BLOCK WALL S.F.							SEE GENERAL NOTES
TB1-1	E 398+77.7 (10.3' LT) TO E 400+07.7 (10.4' LT)	130															
TB1-2	TB 10+81.5 (12.0' LT) TO TB 18+80.0 (12.0' LT)							799									3
TB1-3	E 398+82.5 (1.6' RT) TO E 399+77.5 (1.1' RT)	128															
TB1-4	TB 10+86.0 TO TB 18+99.0							813									3
TB1-5	TB 11+05.5 (12.0' RT) TO TB 19+19.0 (11.3' RT)							814									3
TB1-6	TB 11+39.2 (15.0' LT) TO TB 15+08.2 (15.0' LT)			370		31											2, 4, 5
TB1-7	TB 12+21.2 (15.0' RT) TO TB 15+08.2 (15.0' RT)			287		24											1, 4, 5
TB1-8	E 400+48.3 (18.5' RT) TO E 402+96.0 (35.0' RT)			250													
TB2-1	TB 14+74.1 (17.0' LT) TO TB 14+93.7 (17.0' LT)									170							6
TB2-2	TB 15+08.2 (15.0' LT) TO TB 17+03.3 (15.0' LT)			194		16											2, 4, 5
TB2-3	TB 15+08.2 (15.0' RT) TO TB 16+56.3 (15.0' RT)			144		12											1, 4, 5
TB2-4	E 404+39.0 (13.0' LT) TO E 406+59.0 (11.5' LT)	220															
TB2-5	E 404+57.0 (0.0') TO E 406+80.0 (0.3' LT)	143															
TB2-6	E 404+79.8 (10.9' RT) TO E 406+98.8 (11.0' RT)	219															
TB2-7	E 404+93.3 (18.0' RT) TO E 406+55.8 (14.6' RT)				163												
TB2-8	E 404+08.0 (34.9' RT) TO E 404+93.0 (16.8' RT)			88													
	SHEET TOTAL	840		1333	163	83		2426		170							
	PROJECT TOTAL	840		1333	163	83		2426		170							

GENERAL NOTES:

1. SEE STANDARD PLAN C-60.10 FOR CONCRETE BARRIER TYPE F (PRECAST)
2. SEE STANDARD PLAN C-60.15 FOR CONCRETE BARRIER TYPE F WITH SCUPPERS (PRECAST)
3. SEE STANDARD PLAN M-20.10 FOR LONGITUDINAL MARKING PATTERNS.
4. SEE STANDARD PLAN M-40.10 FOR BARRIER DELINEATORS, SIDE MOUNT. PLACED AT 12.5' SPACING.
5. SEE STANDARD PLAN C-60.80 CONCRETE BARRIER TYPE F (PRECAST) TERMINAL.
6. SEE SPECIAL PROVISIONS.

		DATE	DATE	REVISION	BY
DESIGNED BY	D. HARRIS				
ENTERED BY	D. HARRIS				
CHECKED BY	E. WINTER				
PROJ. ENGR.	S. BEIER				
REGION ADM.	B. NIELSEN				

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

JOB NUMBER 26A012

CONTRACT NO.

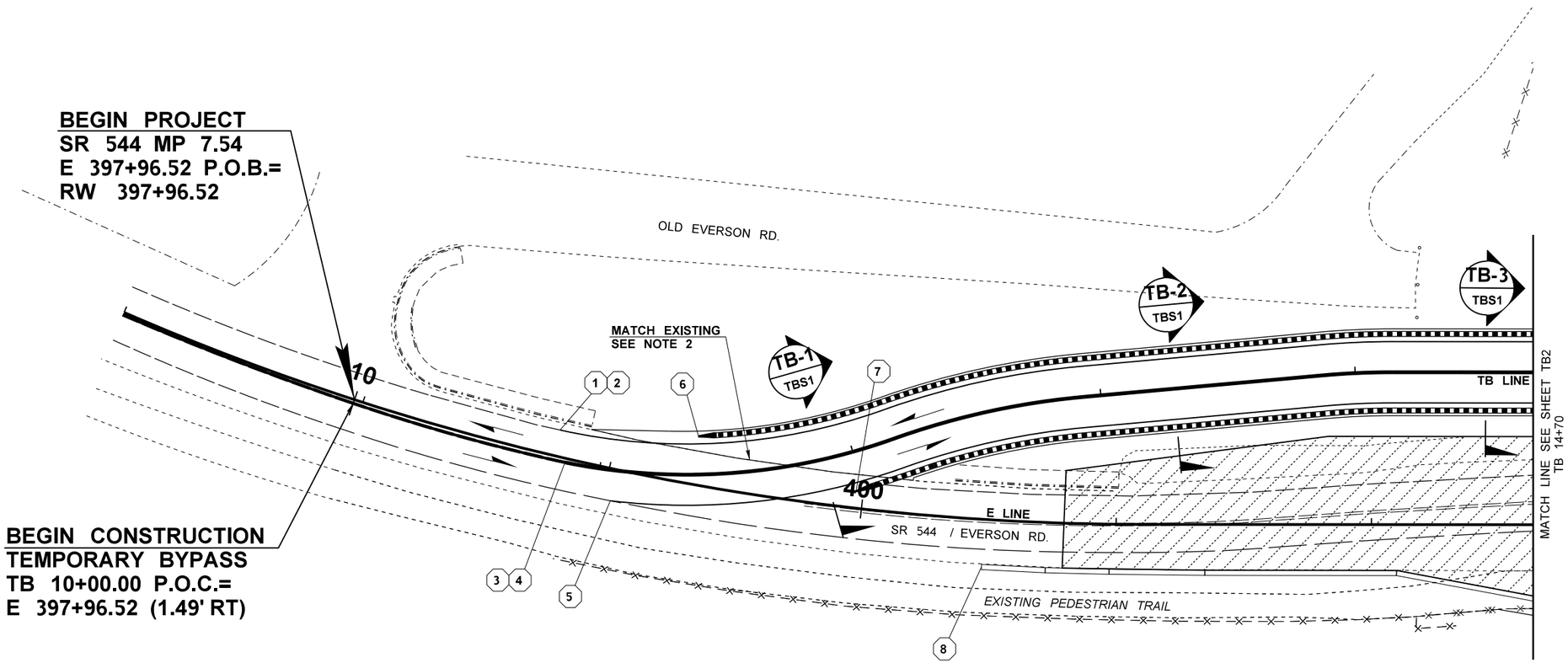
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NOOKSACK RIVER OVERFLOW CULVERT ER PERMANENT REPAIR

QUANTITY TABULATION - TEMPORARY BYPASS

QTTB1

SHEET 12 OF 119 SHEETS



0 25 50
SCALE IN FEET

LEGEND

100 / 400	TEMPORARY BYPASS ALIGNMENT / CONSTRUCTION ALIGNMENT	EXISTING FENCE	GRAVITY BLOCK WALL
	EXISTING EDGE OF PAVEMENT	EXISTING CONC. BARRIER	DIRECTION OF TRAVEL
	EXISTING GRAVEL EDGE	EDGE OF BYPASS PAVEMENT	CONC. BARRIER TERMINAL
	EXISTING EDGE LINE	WHITE EDGE LINE	WORK ZONE
	EXISTING DOUBLE CENTERLINE	YELLOW CENTERLINE	QUANTITY TABULATION NOTE SEE SHEET QTTB1
	EXISTING CURB FACE	TEMPORARY BARRIER	QUANTITY TABULATION NOTE CONTINUED
	EXISTING SIDEWALK	RESET CONC. BARRIER	
		TEMPORARY BRIDGE	

NOTES:

1. SAWCUT PAVEMENT AND REMOVE EXISTING CURB AND SIDEWALK TO PROVIDE SMOOTH TRANSITION OF PROPOSED HMA SURFACING AT INTERFACE WITH EXISTING SURFACING.
2. CONTRACTOR SHALL RESET PORTIONS OF EXISTING SHIFTED CONCRETE BARRIER AND BRIDGE RAILING AFTER ROADWAY CONSTRUCTION IS COMPLETED.
3. THE TEMPORARY BRIDGE TB LINE SHALL HAVE A MINIMUM WIDTH OF 28 FEET BETWEEN BARRIERS FOR VEHICLE MOVEMENT.
4. CONNECT TEMPORARY BARRIER TO THE TEMPORARY BRIDGE TB LINE BRIDGE RAIL OR BARRIER BASED ON MANUFACTURER'S PLANS OR CONTINUE TEMPORARY BARRIER ACROSS THE TEMPORARY BRIDGE.
4. TEMPORARY BRIDGE BARRIER SHALL BE DESIGNED TO TL-3 MINIMUM. SEE TEMPORARY BRIDGE SPECIAL PROVISION FOR ADDITIONAL DETAIL.
5. SEE SHEET AL1 FOR TB-LINE ALIGNMENT DATA.
6. SEE SHEET TBP1 FOR TEMPORARY BYPASS ROADWAY PROFILE AND SUPERELEVATION INFORMATION.
7. SEE SHEET TBS1 FOR TEMPORARY BYPASS ROADWAY SECTIONS.
8. SEE SHEETS TC1 TO TC10 FOR TRAFFIC CONTROL PLANS.
9. SEE SHEET TPB1 FOR TEMPORARY PEDESTRIAN BYPASS INFORMATION.

FILE NAME	T:\412334\XL6549 SR 544 Nooksack Overflow Repair_CAE\CAD\ContractPlans\XL6549_070_PS_BypassPlan.dgn			
TIME	4:32:27 PM			
DATE	9/24/2026			
PLOTTED BY	hardoug			
DESIGNED BY	D. HARRIS			
ENTERED BY	D. HARRIS			
CHECKED BY	E. WINTER			
PROJ. ENGR.	S. BEIER			
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY

REGION NO. 10 | STATE WASH
JOB NUMBER 26A012
CONTRACT NO.
FED.AID PROJ.NO.
LOCATION NO.

SPENCER T. BEIER — STATE OF WASHINGTON — 19005 — REGISTERED PROFESSIONAL ENGINEER
SEE SHEET CT1
DATE
P.E. STAMP BOX

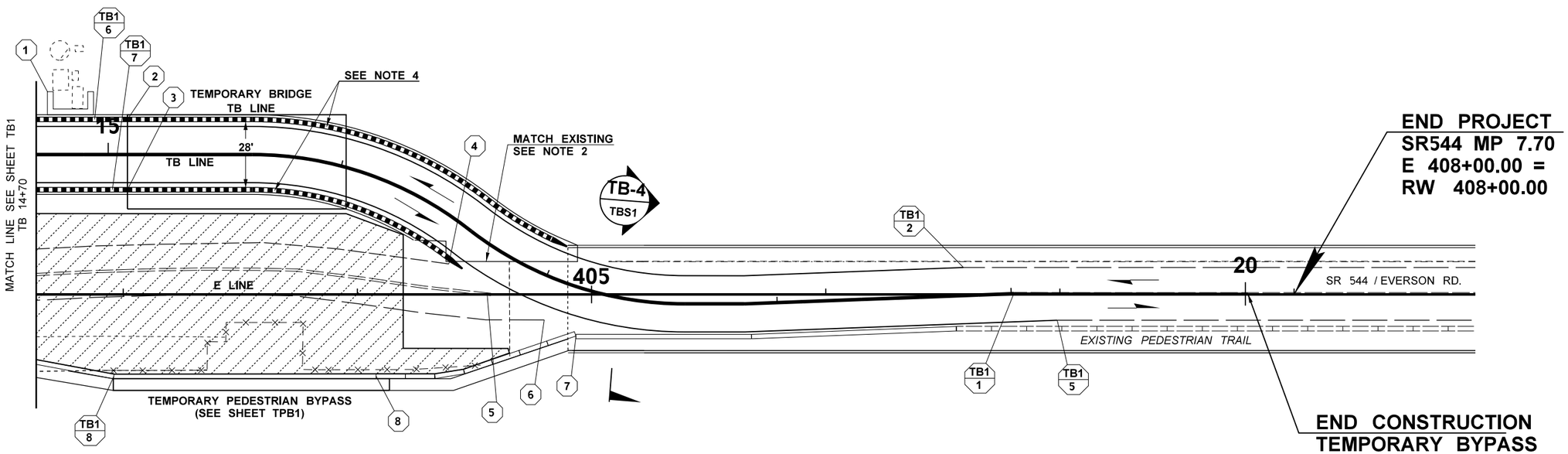
DATE
P.E. STAMP BOX

Washington State Department of Transportation

SR 544
NOOKSACK RIVER OVERFLOW CULVERT ER PERMANENT REPAIR

TEMPORARY BYPASS PLAN

Plot 1
PLAN REF NO TB1
SHEET 13 OF 119 SHEETS



0 25 50
SCALE IN FEET

LEGEND

100 / 400 TEMPORARY BYPASS ALIGNMENT	EXISTING FENCE		GRAVITY BLOCK WALL
CONSTRUCTION ALIGNMENT	EXISTING CONC. BARRIER		DIRECTION OF TRAVEL
EXISTING EDGE OF PAVEMENT	EDGE OF BYPASS PAVEMENT		CONC. BARRIER TERMINAL
EXISTING GRAVEL EDGE	WHITE EDGE LINE		WORK ZONE
EXISTING EDGE LINE	YELLOW CENTERLINE	?	QUANTITY TABULATION NOTE SEE SHEET QTTB1
EXISTING DOUBLE CENTERLINE	TEMPORARY BARRIER	??	QUANTITY TABULATION NOTE CONTINUED
EXISTING CURB FACE	RESET CONC. BARRIER		
EXISTING SIDEWALK	TEMPORARY BRIDGE		

NOTES:

1. SAWCUT PAVEMENT AND REMOVE EXISTING CURB AND SIDEWALK TO PROVIDE SMOOTH TRANSITION OF PROPOSED HMA SURFACING AT INTERFACE WITH EXISTING SURFACING.
2. CONTRACTOR SHALL RESET PORTIONS OF EXISTING SHIFTED CONCRETE BARRIER AND BRIDGE RAILING AFTER ROADWAY CONSTRUCTION IS COMPLETED.
3. THE TEMPORARY BRIDGE TB LINE SHALL HAVE A MINIMUM WIDTH OF 28 FEET BETWEEN BARRIERS FOR VEHICLE MOVEMENT.
4. CONNECT TEMPORARY BARRIER TO THE TEMPORARY BRIDGE TB LINE BRIDGE RAIL OR BARRIER BASED ON MANUFACTURER'S PLANS OR CONTINUE TEMPORARY BARRIER ACROSS THE TEMPORARY BRIDGE.
4. TEMPORARY BRIDGE BARRIER SHALL BE DESIGNED TO TL-3 MINIMUM. SEE TEMPORARY BRIDGE SPECIAL PROVISION FOR ADDITIONAL DETAIL.
5. SEE SHEET AL1 FOR TB-LINE ALIGNMENT DATA.
6. SEE SHEET TBP1 FOR TEMPORARY BYPASS ROADWAY PROFILE AND SUPERELEVATION INFORMATION.
7. SEE SHEET TBS1 FOR TEMPORARY BYPASS ROADWAY SECTIONS.
8. SEE SHEETS TC1 TO TC10 FOR TRAFFIC CONTROL PLANS.
9. SEE SHEET TPB1 FOR TEMPORARY PEDESTRIAN BYPASS INFORMATION.

FILE NAME	T:\412334\XL6549 SR 544 Nooksack Overflow Repair_CAE\CAD\ContractPlans\XL6549_070_PS_BypassPlan.dgn				REGION NO. 10	STATE WASH	FED.AID PROJ.NO.	Plot 2
TIME	4:32:33 PM							PLAN REF NO TB2
DATE	9/24/2026				JOB NUMBER 26A012			
PLOTTED BY	hardoug				CONTRACT NO.		LOCATION NO.	SHEET 14 OF 119 SHEETS
DESIGNED BY	D. HARRIS							
ENTERED BY	D. HARRIS							
CHECKED BY	E. WINTER							
PROJ. ENGR.	S. BEIER							
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY				

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

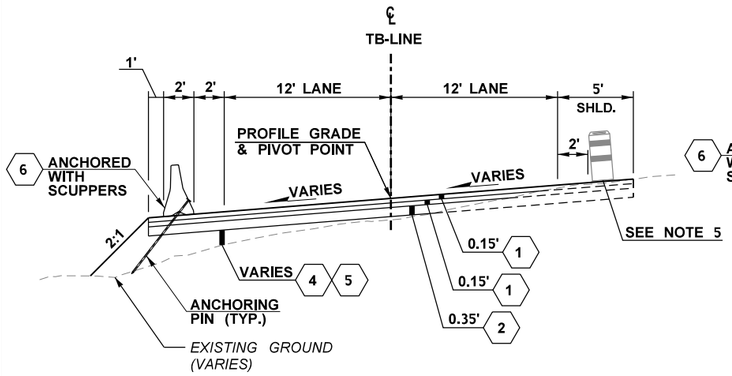
SEE SHEET CT1 DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

Washington State Department of Transportation

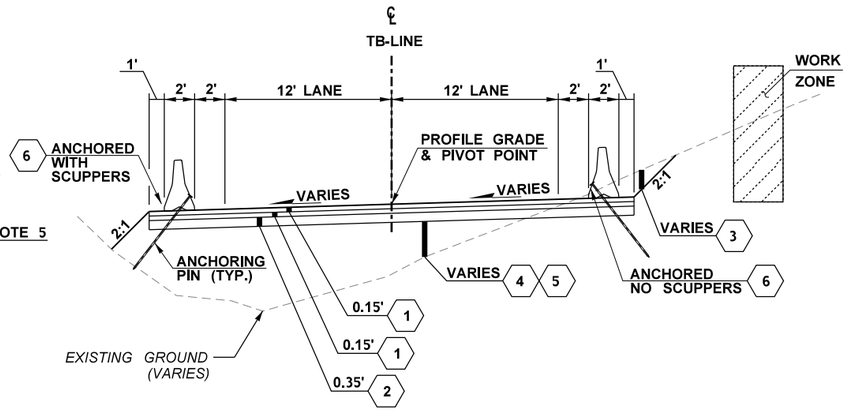
SR 544
NOOKSACK RIVER OVERFLOW CULVERT ER PERMANENT REPAIR

TEMPORARY BYPASS PLAN



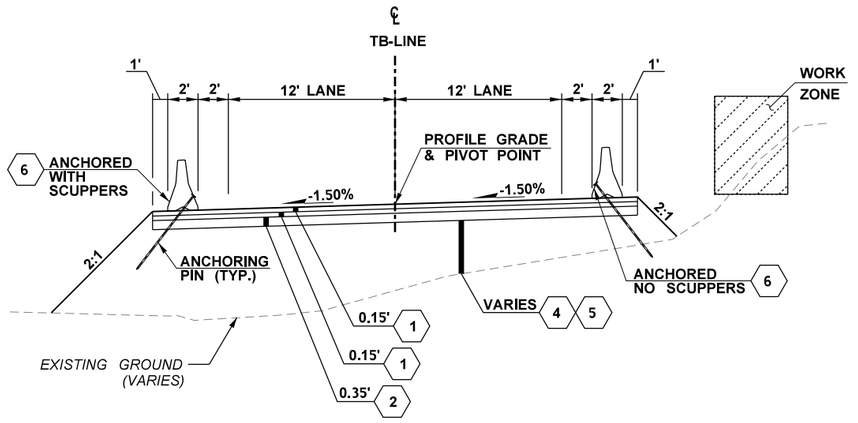
ROADWAY SECTION TB-1

STA TB 11+39 TO TB 11+97
STA TB 16+69 TO TB 17+03
NOT TO SCALE



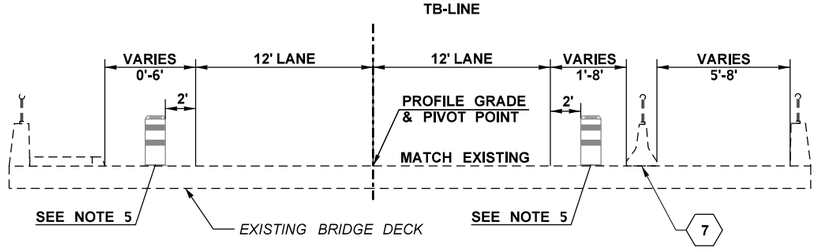
ROADWAY SECTION TB-2

STA TB 11+97 TO TB 14+50
STA TB 16+02 TO TB 16+69
NOT TO SCALE



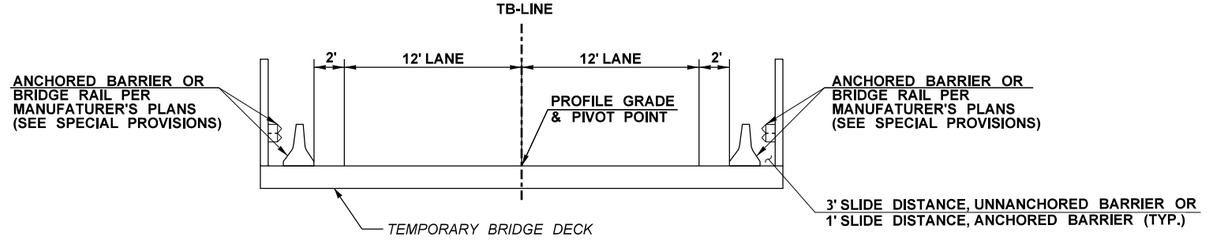
ROADWAY SECTION TB-3

STA TB 14+50 TO TB 15+08
NOT TO SCALE



ROADWAY SECTION TB-4

STA TB 17+03 TO TB 18+76
NOT TO SCALE



TEMPORARY BRIDGE SECTION

STA TB 15+08 TO TB 16+02
NOT TO SCALE

LEGEND

1. HMA CL. 1/2 IN. PG 58H-22
2. CRUSHED SURFACING BASE COURSE
3. ROADWAY EXCAVATION INC. HAUL*
4. GRAVEL BORROW INCL. HAUL*
5. EMBANKMENT COMPACTION*
6. TEMPORARY BARRIER (ANCHORED)
7. REMOVING AND RESETTING EXISTING PERMANENT BARRIER

* INCLUDED IN BID ITEM "EARTHWORK", L.S.

NOTES:

1. ALL DEPTHS SHOWN ARE COMPACTED DEPTHS AND COURSES SHALL NOT EXCEED THE DEPTHS DEFINED IN THE PAVEMENT REPORT.
2. PROVIDE SMOOTH TRANSITION OF PROPOSED SURFACING AT INTERFACE WITH EXISTING SURFACING.
3. REMOVE FULL DEPTH OF TEMPORARY BYPASS AFTER TRAFFIC HAS BEEN RETURNED TO MAINLINE SR 544. GRADE AREA BACK TO EXISTING CONDITIONS PRIOR TO CONSTRUCTION. REMOVAL AND GRADING WILL BE INCLUDED IN BID ITEM "EARTHWORK" L.S. SEE LANDSCAPE PLANS FOR FINAL RESTORATION.
4. SEE SHEET TBP1 FOR TEMPORARY BYPASS ROADWAY PROFILE.
5. SEE SHEET TC3-TC4 FOR TRAFFIC CONTROL DEVICE PLACEMENT.

FILE NAME	T:\412334\XL6549 SR 544 Nooksack Overflow Repair_CAE\CAD\ContractPlans\XL6549_070_PS_BypassPlan.dgn				REGION NO. 10	STATE WASH	FED.AID PROJ.NO.
TIME	4:32:38 PM						
DATE	9/24/2026						
PLOTTED BY	hardoug				JOB NUMBER 26A012		
DESIGNED BY	D. HARRIS						
ENTERED BY	D. HARRIS						
CHECKED BY	E. WINTER				CONTRACT NO.		LOCATION NO.
PROJ. ENGR.	S. BEIER						
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY			

SPENCER T. BEIER — STATE OF WASHINGTON — 19005 — REGISTERED PROFESSIONAL ENGINEER
SEE SHEET CT1
DATE
P.E. STAMP BOX

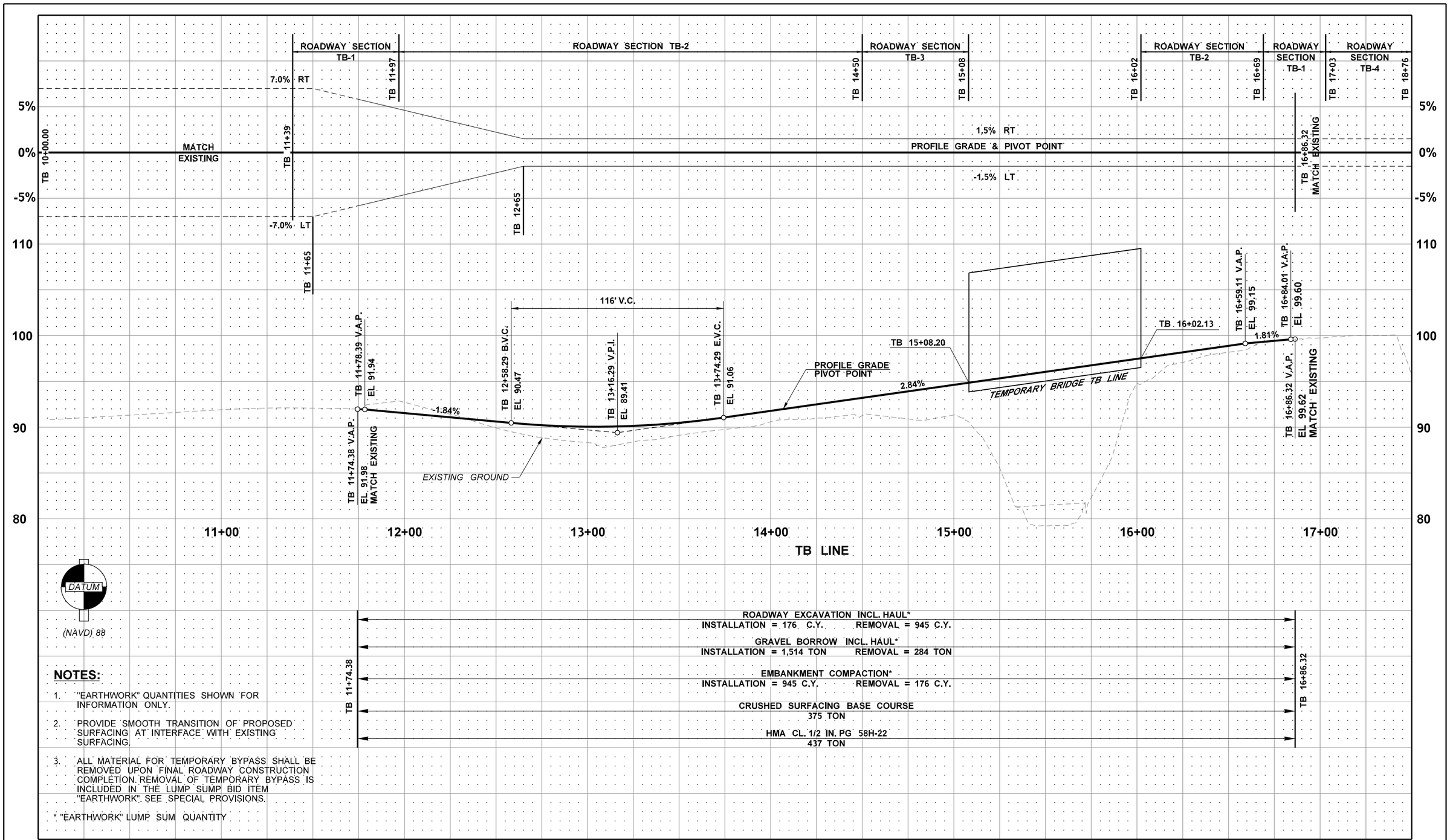
DATE
P.E. STAMP BOX

Washington State Department of Transportation

SR 544
NOOKSACK RIVER OVERFLOW CULVERT ER PERMANENT REPAIR

TEMPORARY BYPASS ROADWAY SECTIONS

Plot 3
PLAN REF NO TBS1
SHEET 15 OF 119 SHEETS



DATUM

(NAVD) 88

ROADWAY EXCAVATION INCL. HAUL*
INSTALLATION = 176 C.Y. REMOVAL = 945 C.Y.

GRAVEL BORROW INCL. HAUL*
INSTALLATION = 1,514 TON REMOVAL = 284 TON

EMBANKMENT COMPACTION*
INSTALLATION = 945 C.Y. REMOVAL = 176 C.Y.

CRUSHED SURFACING BASE COURSE
375 TON

HMA CL. 1/2 IN. PG 58H-22
437 TON

TB 11+74.38 — TB 16+86.32

NOTES:

1. "EARTHWORK" QUANTITIES SHOWN FOR INFORMATION ONLY.
2. PROVIDE SMOOTH TRANSITION OF PROPOSED SURFACING AT INTERFACE WITH EXISTING SURFACING.
3. ALL MATERIAL FOR TEMPORARY BYPASS SHALL BE REMOVED UPON FINAL ROADWAY CONSTRUCTION COMPLETION. REMOVAL OF TEMPORARY BYPASS IS INCLUDED IN THE LUMP SUMP BID ITEM "EARTHWORK". SEE SPECIAL PROVISIONS.

* "EARTHWORK" LUMP SUM QUANTITY

FILE NAME	T:\412334\XL6549 SR 544 Nooksack Overflow Repair_CAE\CAD\ContractPlans\XL6549_070_PS_BypassPlan.dgn				REGION NO.	STATE	FED.AID PROJ.NO.
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DATE	9/24/2026				JOB NUMBER		
PLOTTED BY	hardoug				26A012		
DESIGNED BY	D. HARRIS				CONTRACT NO.		LOCATION NO.
ENTERED BY	D. HARRIS						
CHECKED BY	E. WINTER						
PROJ. ENGR.	S. BEIER						
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY			

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

SEE SHEET CT1 DATE

P.E. STAMP BOX

DATE

P.E. STAMP BOX

Washington State Department of Transportation

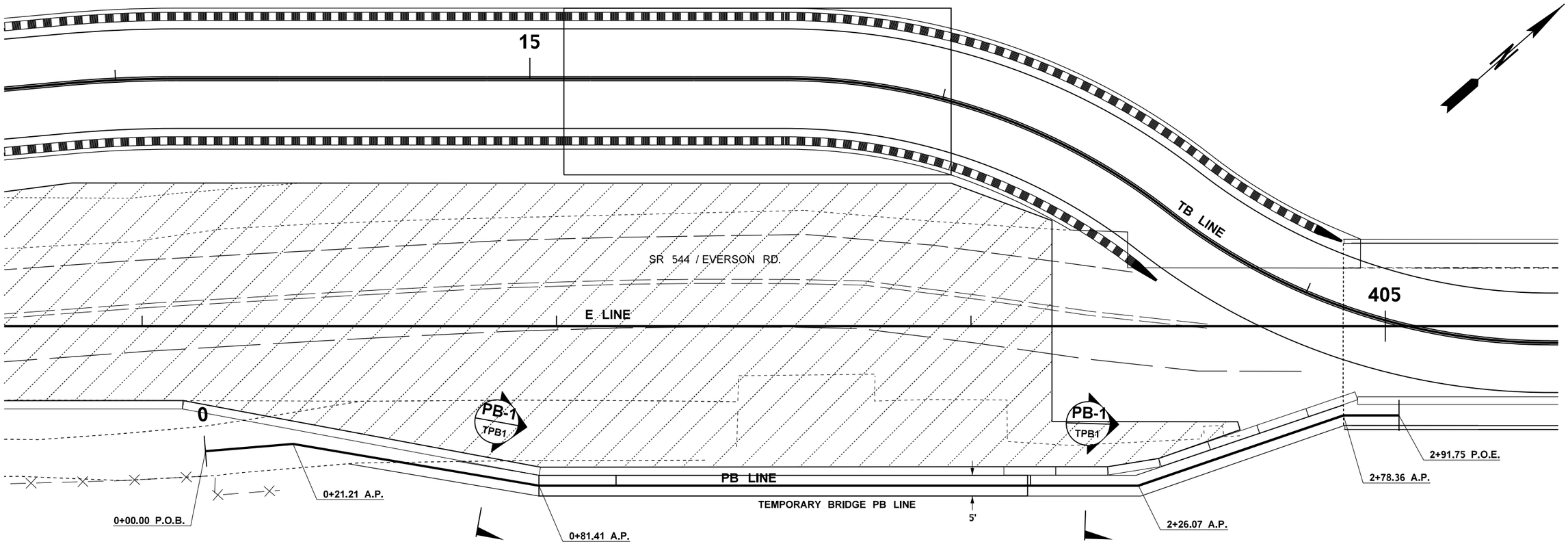
SR 544
NOOKSACK RIVER OVERFLOW CULVERT ER PERMANENT REPAIR

TEMPORARY BYPASS ROADWAY PROFILE

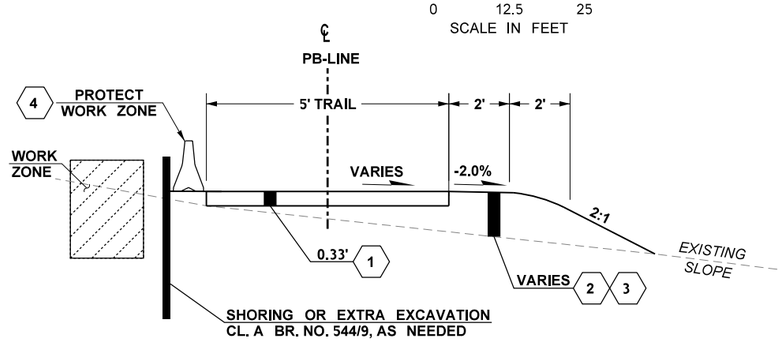
Plot 4

PLAN REF. NO. TBP1

SHEET 16 OF 119 SHEETS



0 12.5 25
SCALE IN FEET



TRAIL SECTION PB-1

STA PB 0+53 TO PB 0+81
STA PB 1+99 TO PB 2+78
NOT TO SCALE

STA PB 0+81 TO PB 1+99
(TEMPORARY BRIDGE PB LINE, SEE SPECIAL PROVISION)

LEGEND

1. CRUSHED SURFACING BASE COURSE
2. GRAVEL BORROW INCL. HAUL*
3. EMBANKMENT COMPACTION*
4. TEMPORARY BARRIER

* INCLUDED IN BID ITEM "EARTHWORK", L.S.

LEGEND

10 / 400	TEMPORARY BYPASS ALIGNMENT		EDGE OF BYPASS PAVEMENT
	CONSTRUCTION ALIGNMENT		WHITE EDGE LINE
	EXISTING EDGE OF PAVEMENT		YELLOW CENTERLINE
	EXISTING GRAVEL EDGE		TEMPORARY BARRIER
	EXISTING EDGE LINE		RESET CONC. BARRIER
	EXISTING DOUBLE CENTERLINE		TEMPORARY BRIDGE
	EXISTING CURB FACE		CONC. BARRIER TERMINAL
	EXISTING SIDEWALK		WORK ZONE
	EXISTING FENCE		
	EXISTING CONC. BARRIER		

NOTES:

1. ALL DEPTHS SHOWN ARE COMPACTED DEPTHS AND COURSES SHALL NOT EXCEED THE DEPTHS DEFINED IN THE PAVEMENT REPORT.
2. PROVIDE SMOOTH TRANSITION OF PROPOSED SURFACING AT INTERFACE WITH EXISTING SURFACING.
3. REMOVE FULL DEPTH OF TEMPORARY PEDESTRIAN BYPASS AFTER TRAFFIC HAS BEEN RETURNED TO MAINLINE SR 544. GRADE AREA BACK TO EXISTING CONDITIONS PRIOR TO CONSTRUCTION. REMOVAL AND GRADING WILL BE INCLUDED IN BID ITEM "EARTHWORK" L.S. SEE LANDSCAPE PLANS FOR FINAL RESTORATION.
4. SEE SHEET TPBP1 FOR TEMPORARY PEDESTRIAN BYPASS PROFILE.
5. SEE TEMPORARY BRIDGE PB LINE SPECIAL PROVISION FOR ADDITIONAL DETAIL.

FILE NAME	T:\412334\XL6549 SR 544 Nooksack Overflow Repair_CAE\CAD\ContractPlans\XL6549_070_PS_BypassPlan.dgn				REGION NO.	STATE	FED.AID PROJ.NO.
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DATE	9/24/2026				JOB NUMBER		
PLOTTED BY	hardoug				26A012		
DESIGNED BY	D. HARRIS				CONTRACT NO.		LOCATION NO.
ENTERED BY	D. HARRIS						
CHECKED BY	E. WINTER						
PROJ. ENGR.	S. BEIER						
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY			

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

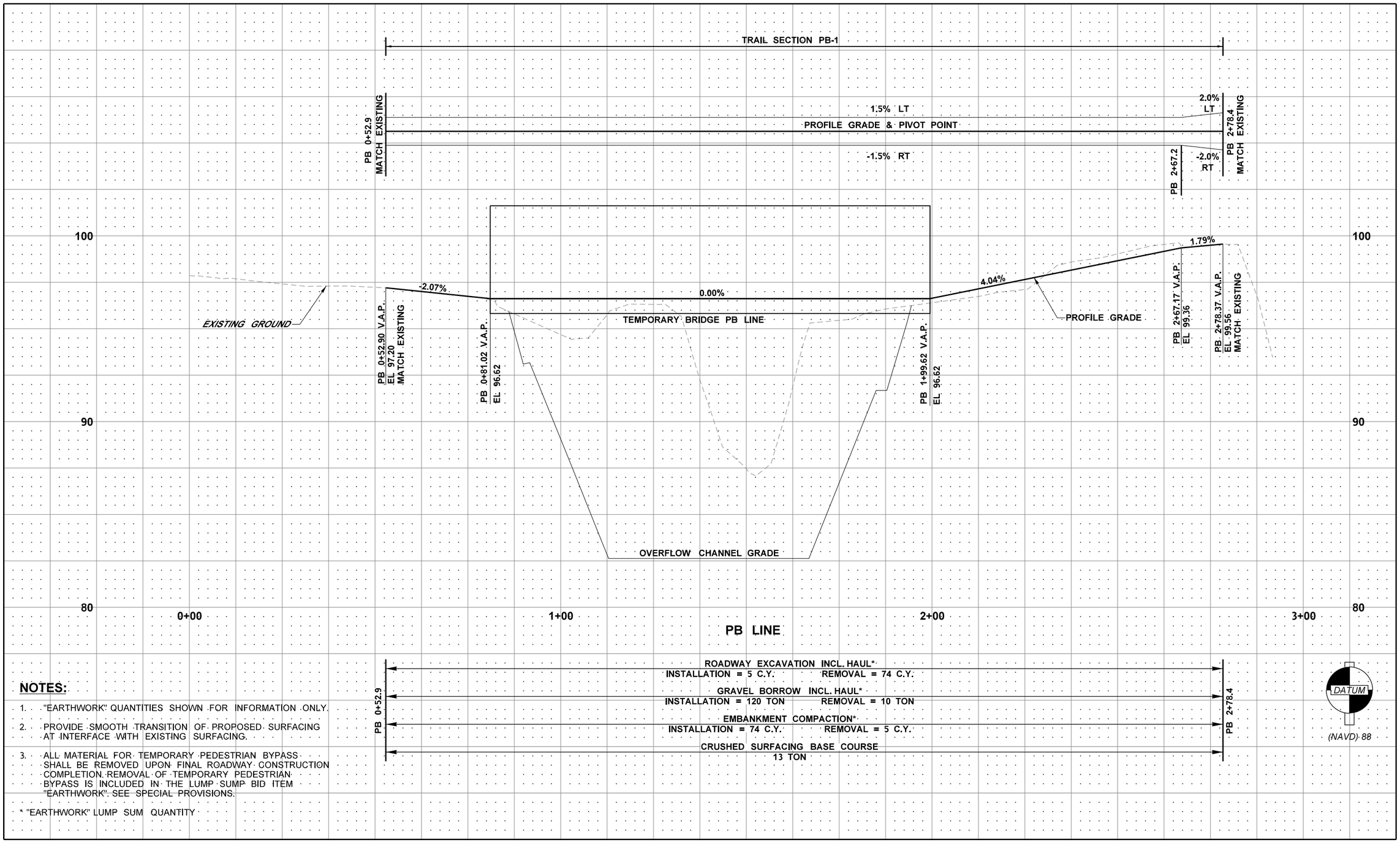
DATE — P.E. STAMP BOX

Washington State Department of Transportation

SR 544
NOOKSACK RIVER OVERFLOW CULVERT ER PERMANENT REPAIR

TEMPORARY PEDESTRIAN BYPASS PLAN

Plot 5
PLAN REF NO TPB1
SHEET 17 OF 119 SHEETS



NOTES:

1. "EARTHWORK" QUANTITIES SHOWN FOR INFORMATION ONLY.
2. PROVIDE SMOOTH TRANSITION OF PROPOSED SURFACING AT INTERFACE WITH EXISTING SURFACING.
3. ALL MATERIAL FOR TEMPORARY PEDESTRIAN BYPASS SHALL BE REMOVED UPON FINAL ROADWAY CONSTRUCTION COMPLETION. REMOVAL OF TEMPORARY PEDESTRIAN BYPASS IS INCLUDED IN THE LUMP SUMP BID ITEM "EARTHWORK". SEE SPECIAL PROVISIONS.

* "EARTHWORK" LUMP SUM QUANTITY

FILE NAME	T:\412334\XL6549 SR 544 Nooksack Overflow Repair_CAE\CAD\ContractPlans\XL6549_070_PS_BypassPlan.dgn
TIME	4:32:56 PM
DATE	9/24/2026
PLOTTED BY	hardoug
DESIGNED BY	D. HARRIS
ENTERED BY	D. HARRIS
CHECKED BY	E. WINTER
PROJ. ENGR.	S. BEIER
REGIONAL ADM.	B. NIELSEN

REVISION	DATE	BY

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

JOB NUMBER 26A012

CONTRACT NO. | LOCATION NO.

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

SEE SHEET CT1

DATE

P.E. STAMP BOX

DATE

P.E. STAMP BOX

Washington State Department of Transportation

SR 544
NOOKSACK RIVER OVERFLOW CULVERT
ER PERMANENT REPAIR

TEMPORARY PEDESTRIAN BYPASS PROFILE

Plot 6

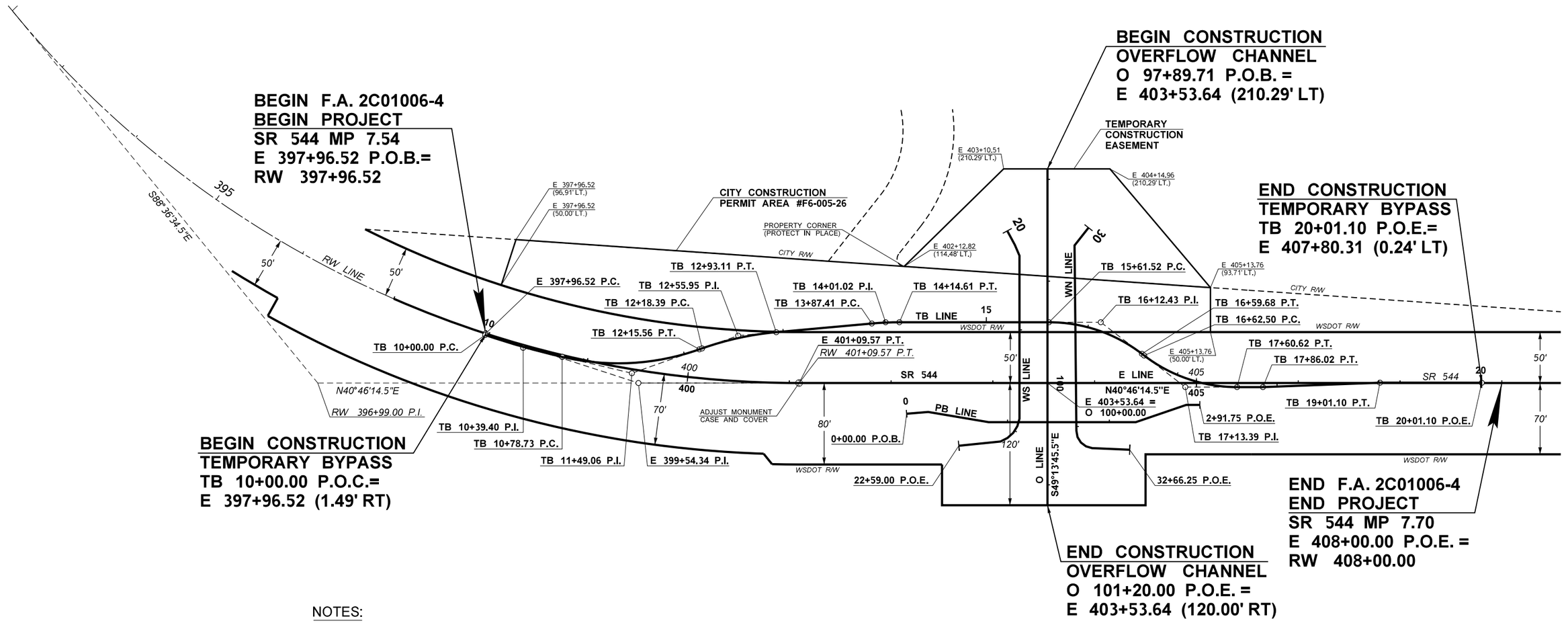
PLAN REF. NO. TPBP1

SHEET 18 OF 119 SHEETS

T. 40N., R. 4E., W.M. SEC. 31

TB AND PB LINE DATA					
P.T. STATION	DIRECTION	LENGTH (FT)	ANGLE POINT	DIRECTION	LENGTH (FT)
TB 12+15.56	N 21°18'20.71" E	2.83	PB 0+00.00	N 36°02'18.48" E	21.20
TB 12+93.11	N 35°34'34.60" E	94.30	PB 0+21.20	N 50°23'55.74" E	60.20
TB 16+59.68	N 78°15'50.23" E	2.82	PB 0+81.40	N 40°46'14.55" E	144.66
TB 17+60.62	N 40°46'57.73" E	25.40	PB 02+26.07	N 21°51'54.65" E	52.29
TB 17+86.02	N 38°36'39.59" E	115.08	PB 02+78.36	N 40°46'14.55" E	13.39
TB 19+01.10	N 40°49'15.78" E	100.00			

CURVE DATA						
P.I. STATION	NORTHING	EASTING	DELTA	RADIUS	LENGTH	TANGENT
TB 10+39.40	1030653.05	1603371.01	5° 43' 04.92" L.T.	788.86'	78.73'	39.40'
TB 11+49.06	1030717.70	1603459.67	32° 40' 03.27" L.T.	240.00'	136.84'	70.34'
TB 12+55.95	1030820.85	1603499.90	14° 16' 13.89" R.T.	300.00'	74.72'	37.55'
TB 14+01.02	1030939.16	1603584.52	5° 11' 39.94" R.T.	300.00'	27.20'	13.61'
TB 16+12.43	1031099.28	1603722.59	37° 29' 35.68" R.T.	150.00'	98.16'	50.91'
TB 17+13.39	1031120.56	1603825.02	37° 28' 52.50" L.T.	150.00'	98.13'	50.89'
E 399+54.34	1030716.29	1603471.15	17° 56' 11.68" L.T.	1000.00'	313.05'	157.82'
RW 396+99.00	1030477.66	1603265.38	50° 37' 11.00" L.T.	1000.00'	883.48'	472.91'



LEGEND

- 400 — CONSTRUCTION ALIGNMENTS
- HIGHWAY RIGHT OF WAY
- CITY RIGHT OF WAY
- RIGHT OF WAY CENTERLINE
- TEMPORARY EASEMENT
- CONSTRUCTION PERMIT AREA

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. THIS EXCLUDES THE MONUMENT TO BE ADJUSTED AT STA E 401+09.57.
2. ALL COORDINATE VALUES SHOWN ARE IN PROJECT DATUM.
3. THE DISTANCES SHOWN ARE GROUND DISTANCES IN U.S. SURVEY FEET UNLESS OTHERWISE NOTED. TO OBTAIN THE GRID DISTANCES, MULTIPLY THE GROUND DISTANCE BY THE COMBINED FACTOR OF 1.000038866.
4. RIGHT OF WAY STATION AND OFFSET CALL OUTS ARE BASED ON THE "NOOKSACK RIVER BRIDGE VICINITY" RIGHT OF WAY PLAN, DATE JULY 2, 1992.
5. SEE SHEET OAD1 FOR WS LINE AND WN LINE ALIGNMENT DATA.

0 50 100
SCALE IN FEET

FILE NAME	T:\412334\XL6549 SR 544 Nooksack Overflow Repair_CAE\CAD\ContractPlans\XL6549_080_PS_AL-RW.dgn				REGION NO.	STATE	FED.AID PROJ.NO.
TIME	7:59:55 PM				10	WASH	
DATE	9/24/2026				JOB NUMBER		
PLOTTED BY	hardoug				26A012		
DESIGNED BY	D. HARRIS				CONTRACT NO.		LOCATION NO.
ENTERED BY	D. HARRIS						
CHECKED BY	E. WINTER						
PROJ. ENGR.	S. BEIER						
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY			

SPENCER T. BEIER — STATE OF WASHINGTON — 19000 — REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1
DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

Washington State Department of Transportation

SR 544
NOOKSACK RIVER OVERFLOW CULVERT ER PERMANENT REPAIR

ALIGNMENT AND RIGHT OF WAY PLAN

Plot 1
PLAN REF NO AL1
SHEET 19 OF 119 SHEETS

QUANTITY TABULATION - SITE PREPARATION AND TESC

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

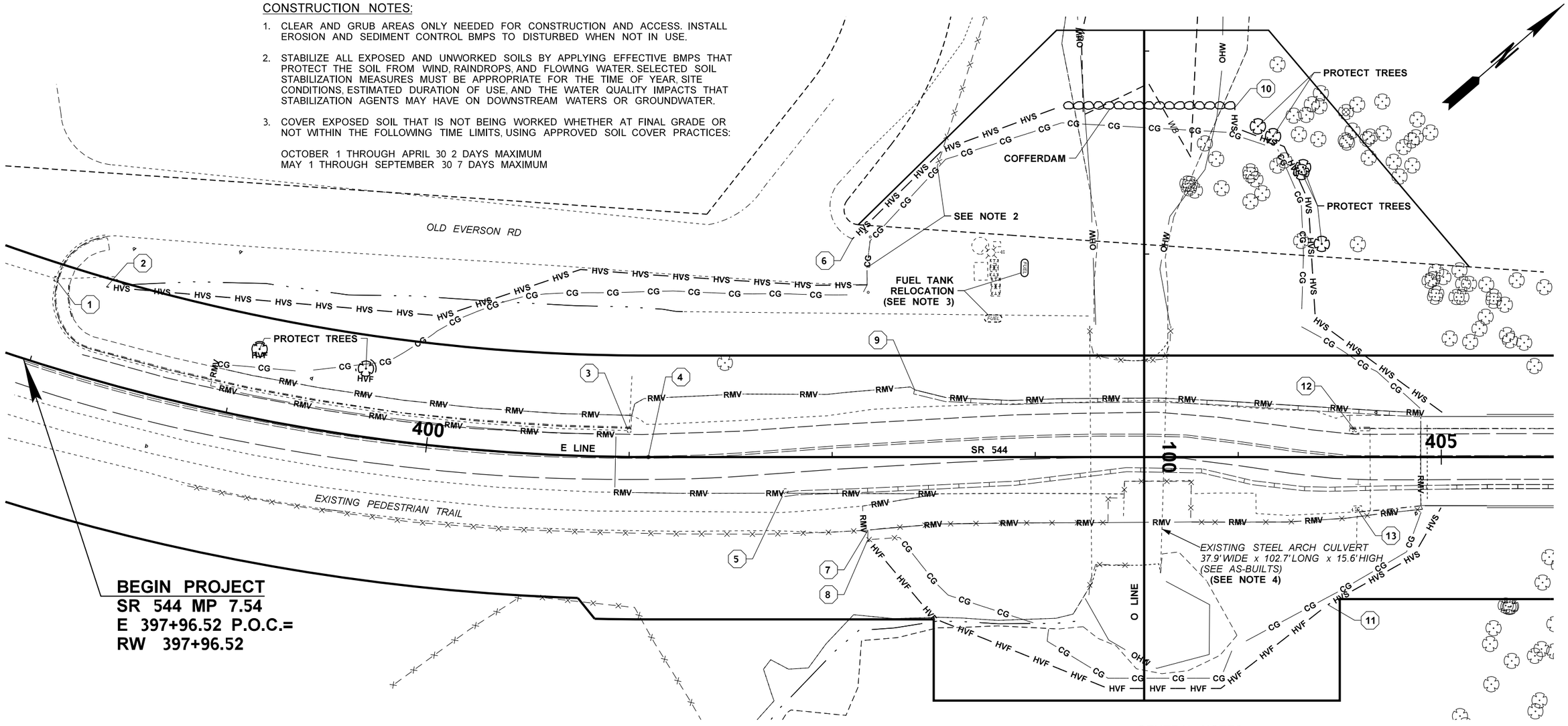
THE SECOND NUMBER REFERS TO THE CONSTRUCTION FEATURE FOUND ON THAT SHEET.

CODE	LOCATION ↓ \ UNIT OF MEASURE →	REMOVING CONC. INLET (REMOVAL OF STRUCTURES AND OBSTRUCTIONS)	REMOVING CONC. BARRIER (REMOVAL OF STRUCTURES AND OBSTRUCTIONS)	REMOVING CHAIN LINK FENCE (REMOVAL OF STRUCTURES AND OBSTRUCTIONS)		INLET PROTECTION	HIGH VISIBILITY FENCE	HIGH VISIBILITY SILT FENCE		ADJUST MONUMENT CASE AND COVER							SEE GENERAL NOTES
		EACH	L.F.	L.F.		EACH	L.F.	L.F.		EACH							
SP1-1	E 398+00.0 (42.2' LT)					1											4
SP1-2	E 398+26.0 (45.7' LT) TO E 402+17.2 (84.8' LT)							379									3
SP1-3	E 401+00.0 (13.0' LT)	1				1											4, 5
SP1-4	E 401+09.5 (0.0' LT/RT)									2							1
SP1-5	E 401+75.2 (19.3' RT) TO E 404+89.9 (14.9' RT)		316														5
SP1-6	E 402+10.0 (107.5' LT) TO E 403+14.0 (173.3' LT)							126									3
SP1-7	E 402+17.7 (36.0' RT) TO E 404+90.8 (25.7' LT)			314													5
SP1-8	E 402+17.5 (40.8' RT) TO E 404+44.1 (72.7' RT)						266										2
SP1-9	E 402+40.4 (32.1' LT) TO E 404+89.3 (20.9' RT)		250														5
SP1-10	E 403+98.3 (172.2' LT) TO E 405+01.9 (21.0' LT)							203									3
SP1-11	E 404+44.1 (72.7' RT) TO E 405+00.0 (24.9' RT)							76									3
SP1-12	E 404+57.2 (13.1' LT)	1				1											4, 5
SP1-13	E 404+58.6 (25.6' RT)	1				1											4, 5

CONSTRUCTION NOTES:

1. CLEAR AND GRUB AREAS ONLY NEEDED FOR CONSTRUCTION AND ACCESS. INSTALL EROSION AND SEDIMENT CONTROL BMPS TO DISTURBED WHEN NOT IN USE.
2. STABILIZE ALL EXPOSED AND UNWORKED SOILS BY APPLYING EFFECTIVE BMPS THAT PROTECT THE SOIL FROM WIND, RAINDROPS, AND FLOWING WATER. SELECTED SOIL STABILIZATION MEASURES MUST BE APPROPRIATE FOR THE TIME OF YEAR, SITE CONDITIONS, ESTIMATED DURATION OF USE, AND THE WATER QUALITY IMPACTS THAT STABILIZATION AGENTS MAY HAVE ON DOWNSTREAM WATERS OR GROUNDWATER.
3. COVER EXPOSED SOIL THAT IS NOT BEING WORKED WHETHER AT FINAL GRADE OR NOT WITHIN THE FOLLOWING TIME LIMITS, USING APPROVED SOIL COVER PRACTICES:

   OCTOBER 1 THROUGH APRIL 30 2 DAYS MAXIMUM
   MAY 1 THROUGH SEPTEMBER 30 7 DAYS MAXIMUM



LEGEND

400	CONSTRUCTION CENTERLINE		EXISTING BRUSH
	HIGHWAY RIGHT OF WAY		EXISTING DITCH LINE
	TEMPORARY EASEMENT		EXISTING CHANNEL EDGE
	EXISTING PAVED EDGE		EXISTING CULVERT
	EXISTING CURB AND GUTTER	OHW	ORDINARY HIGH WATER LINE
	EXISTING GRAVEL EDGE	WB	WETLAND BOUNDARY
	EXISTING EDGE LINE		EXISTING CATCH BASIN
	EXISTING DOUBLE YELLOW CENTERLINE		EXISTING MANHOLE
	EXISTING FENCE		EXISTING SIGN
	EXISTING CONCRETE BARRIER		MONUMENT CASE AND COVER
			EXISTING TREE

RMV	ROADWAY EXCAVATION INCL. HAUL (BID ITEM "EARTHWORK")
CG	CLEARING AND GRUBBING BOUNDARY
HVS	HIGH VISIBILITY SILT FENCE
HVF	HIGH VISIBILITY FENCE
	COFFERDAM
HVF	PROTECT TREE
X	QUANTITY TABULATION NOTE SEE SHEET QT1

0 25 50
SCALE IN FEET

GENERAL NOTES:

1. ROADWAY EXCAVATION FOR ROAD AND BRIDGE CONSTRUCTION WILL BE PAID UNDER BID ITEM "EARTHWORK". SEE SPECIAL PROVISION EARTHWORK".
2. REMOVE AND REPLACE CONCRETE BOLLARDS, WOODEN FENCE AND LANDSCAPE AS NECESSARY FOR SITE ACCESS. REMOVAL IS PART OF LUMP SUMP BID ITEM "REMOVAL OF STRUCTURES AND OBSTRUCTIONS".
3. REMOVAL AND RELOCATION OF THE EXISTING FUEL TANK WILL BE PAID UNDER BID ITEM "FUEL TANK RELOCATION". SEE SPECIAL PROVISION "FUEL TANK RELOCATION". NEW LOCATION SHALL BE COORDINATED WITH THE ENGINEER AND CITY OF EVERSON.
4. REMOVAL OF THE EXISTING STEEL ARCH CULVERT WILL BE PAID UNDER THE BID ITEMS "REMOVING PORTION OF EXISTING STRUCTURE STEEL ARCH CULVERT" OR "REMOVING EXISTING STRUCTURE STEEL ARCH CULVERT", BASED ON THE PHASE OF WORK

FILE NAME	T:\412334\XL6549 SR 544 Nooksack Overflow Repair_CAE\CAD\ContractPlans\XL6549_100_PS_SP-TESC.dgn				REGION NO.	STATE	FED.AID PROJ.NO.
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DATE	9/24/2026				JOB NUMBER		
PLOTTED BY	hardoug				26A012		
DESIGNED BY	D. HARRIS				CONTRACT NO.		LOCATION NO.
ENTERED BY	D. HARRIS						
CHECKED BY	E. WINTER						
PROJ. ENGR.	S. BEIER						
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY			

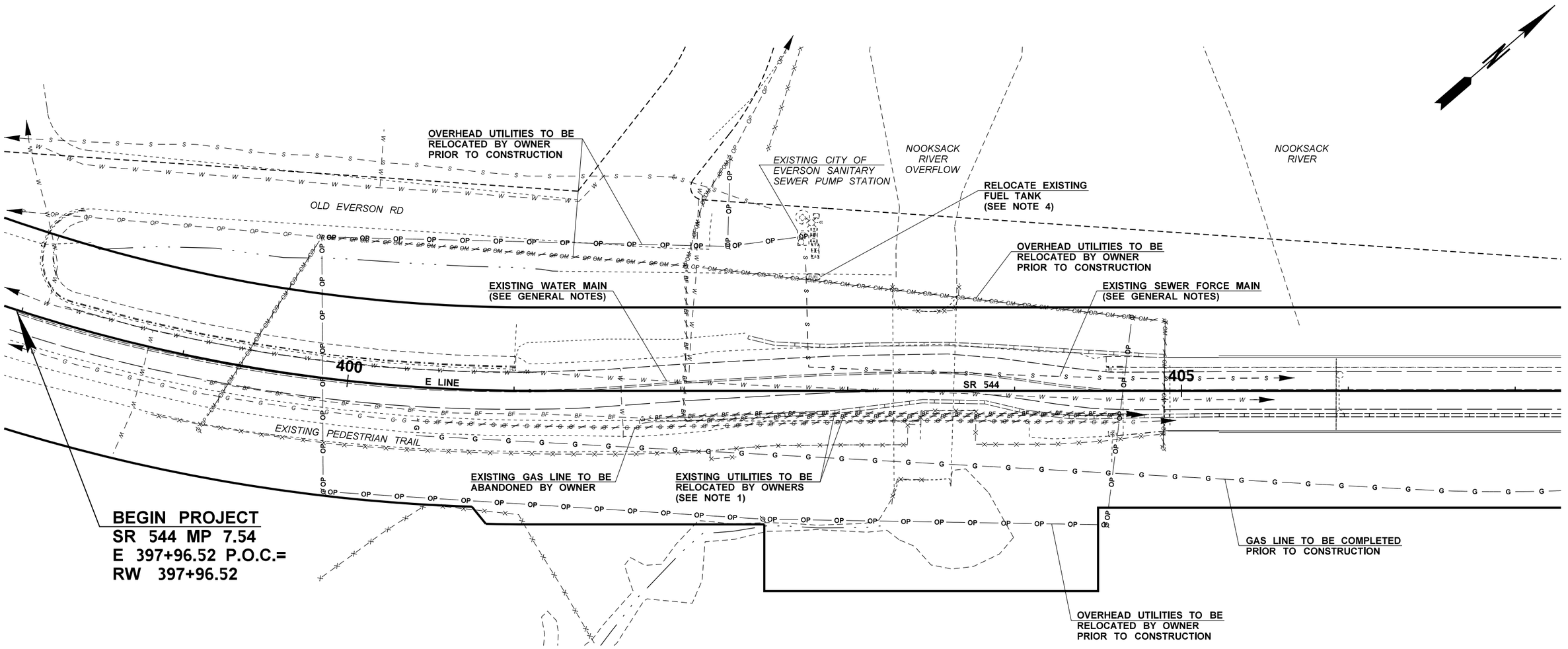
SPENCER T. BEIER — STATE OF WASHINGTON — 36005 — REGISTERED PROFESSIONAL ENGINEER
SEE SHEET CT1
DATE
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Washington State Department of Transportation

SR 544
NOOKSACK RIVER OVERFLOW CULVERT ER PERMANENT REPAIR
SITE PREPARATION AND TESC PLAN

Plot 1
PLAN REF NO **SP1**
SHEET **21** OF **119** SHEETS



LEGEND

400 — CONSTRUCTION CENTERLINE	- S — S — S	EXISTING SANITARY SEWER	EXISTING GAS TANK
WSDOT RIGHT OF WAY	- W — W — W	EXISTING WATER LINE	EXISTING UTILITY POLE LIGHT
CITY RIGHT OF WAY	— BF — BF —	EXISTING BURIED FIBER	EXISTING CATCH BASIN
EXISTING SIDEWALK	— OP — OP —	EXISTING OVERHEAD POWER	EXISTING UTILITY POLE
EXISTING PAVED EDGE	G G G	ABANDONED GAS LINE	EXISTING POWER POLE
EXISTING GRAVEL EDGE	BF BF BF	RELOCATED BURIED FIBER	EXISTING GUY POLE
EXISTING CULVERT	OM OM OM	RELOCATED OVERHEAD LINE	EXISTING UTILITY VAULT
EXISTING CHANNEL EDGE	- G —— G —— G	APPROXIMATE GAS LINE	EXISTING TELEPHONE MANHOLE
— G — G — EXISTING GAS LINE	- OP —— OP —— OP	APPROXIMATE OVERHEAD LINE	EXISTING UTILITY VAULT

GENERAL NOTES

1. EXISTING UTILITIES SHOWN ARE FOR INFORMATIONAL PURPOSES ONLY. CONTRACTOR SHALL VERIFY ACTUAL UTILITY LOCATIONS PRIOR TO EXCAVATION.
2. SEE SHEETS UT2 - UT3 FOR TEMPORARY RELOCATIONS OF WATER MAIN AND SEWER FORCE MAIN.
3. SEE SHEETS UT4 - UT5 FOR PERMANENT RELOCATIONS OF WATER MAIN AND SEWER FORCE MAIN.
4. CONTRACTOR SHALL RELOCATE EXISTING FUEL TANK TO A LOCATION TO AVOID CONSTRUCTION ACTIVITIES AND REMAIN OPERATIONAL THROUGHOUT CONSTRUCTION, IN COORDINATION WITH THE CITY OF EVERSON. SEE SHEET TB1 FOR APPROXIMATE LOCATION. SEE SPECIAL PROVISIONS.

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PLOTTED BY	hardoug				CONTRACT NO.		LOCATION NO.
DESIGNED BY	D. HARRIS						
ENTERED BY	D. HARRIS						
CHECKED BY	E. WINTER						
PROJ. ENGR.	S. BEIER						
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY			

SPENCER T. BEIER — STATE OF WASHINGTON — 14009 — REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1

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NOOKSACK RIVER OVERFLOW CULVERT ER PERMANENT REPAIR

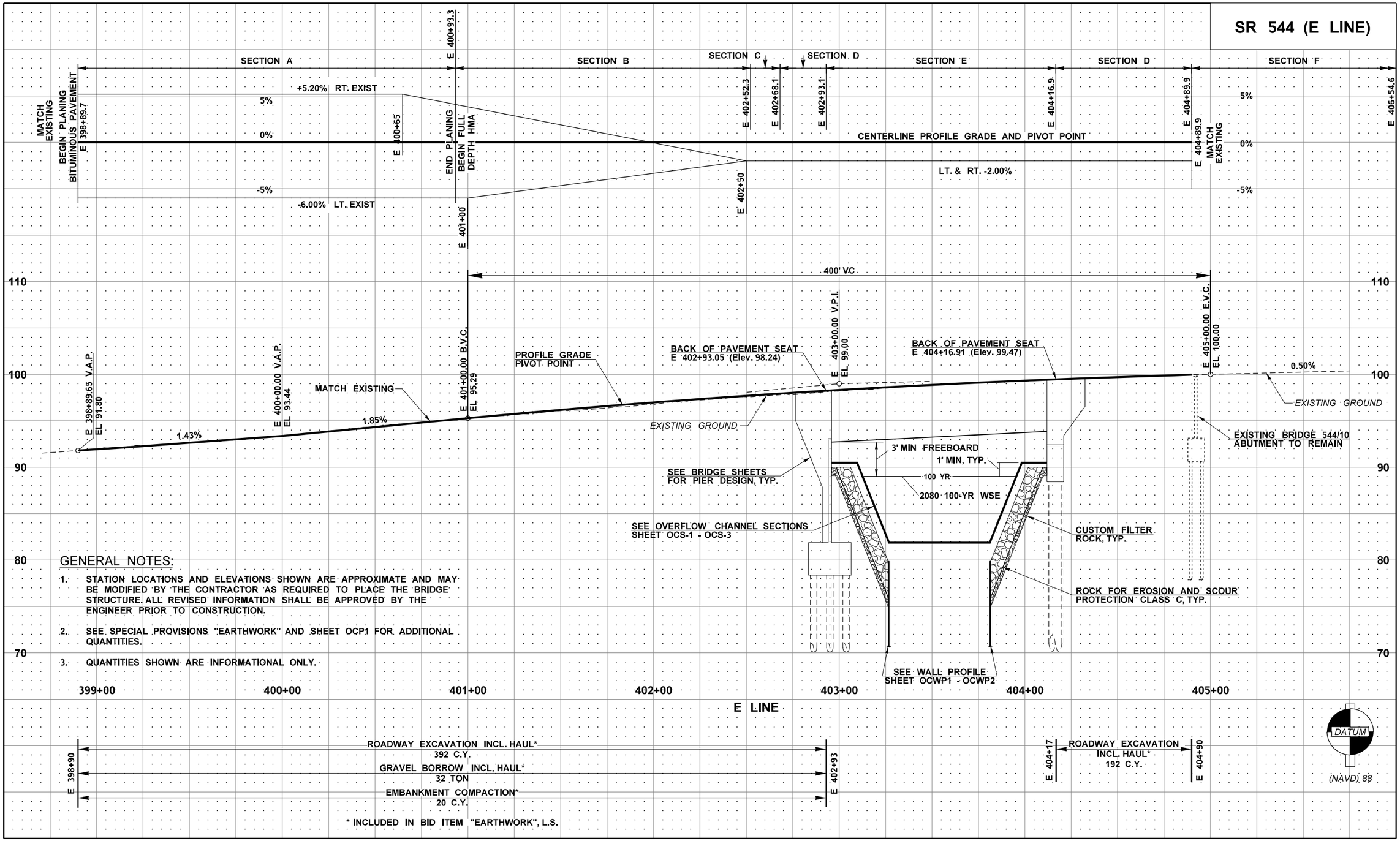
EXISTING UTILITIES

Plot 1

PLAN REF NO **EU1**

SHEET 22 OF 119 SHEETS

SR 544 (E LINE)



GENERAL NOTES:

1. STATION LOCATIONS AND ELEVATIONS SHOWN ARE APPROXIMATE AND MAY BE MODIFIED BY THE CONTRACTOR AS REQUIRED TO PLACE THE BRIDGE STRUCTURE. ALL REVISED INFORMATION SHALL BE APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION.
2. SEE SPECIAL PROVISIONS "EARTHWORK" AND SHEET OCP1 FOR ADDITIONAL QUANTITIES.
3. QUANTITIES SHOWN ARE INFORMATIONAL ONLY.

E 398+90 — E 402+93

ROADWAY EXCAVATION INCL. HAUL* 392 C.Y.

GRAVEL BORROW INCL. HAUL* 32 TON

EMBANKMENT COMPACTION* 20 C.Y.

E 404+17 — E 404+90

ROADWAY EXCAVATION INCL. HAUL* 192 C.Y.

DATUM (NAVD) 88

* INCLUDED IN BID ITEM "EARTHWORK", L.S.

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ENTERED BY	D. HARRIS						
CHECKED BY	E. WINTER						
PROJ. ENGR.	S. BEIER						
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY			

SPENCER T. BEIER — STATE OF WASHINGTON — 19005 — REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1

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NOOKSACK RIVER OVERFLOW CULVERT ER PERMANENT REPAIR

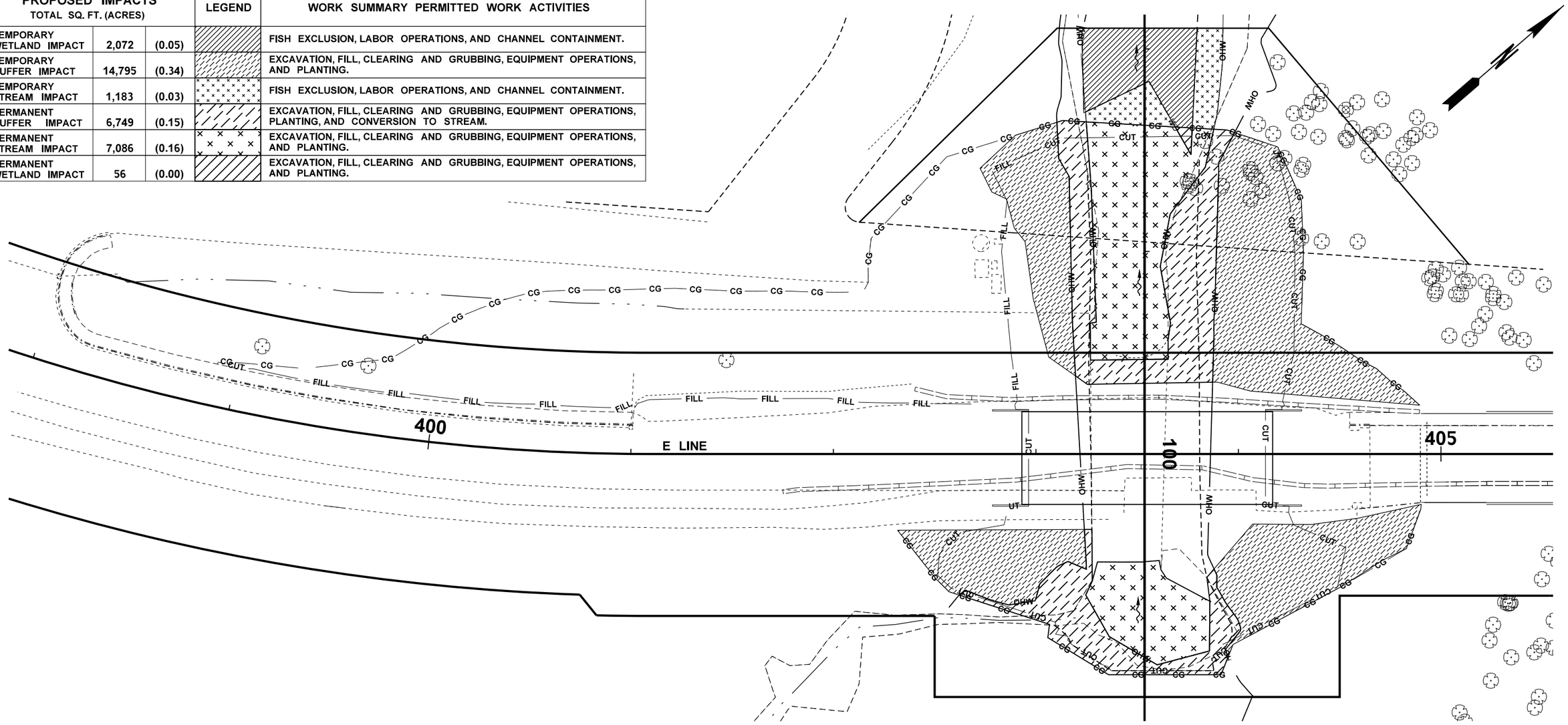
ROADWAY PROFILE

Plot 1

PLAN REF. NO. RP1

SHEET 23 OF 119 SHEETS

PROPOSED IMPACTS TOTAL SQ. FT. (ACRES)			LEGEND	WORK SUMMARY PERMITTED WORK ACTIVITIES
TEMPORARY WETLAND IMPACT	2,072	(0.05)		FISH EXCLUSION, LABOR OPERATIONS, AND CHANNEL CONTAINMENT.
TEMPORARY BUFFER IMPACT	14,795	(0.34)		EXCAVATION, FILL, CLEARING AND GRUBBING, EQUIPMENT OPERATIONS, AND PLANTING.
TEMPORARY STREAM IMPACT	1,183	(0.03)		FISH EXCLUSION, LABOR OPERATIONS, AND CHANNEL CONTAINMENT.
PERMANENT BUFFER IMPACT	6,749	(0.15)		EXCAVATION, FILL, CLEARING AND GRUBBING, EQUIPMENT OPERATIONS, PLANTING, AND CONVERSION TO STREAM.
PERMANENT STREAM IMPACT	7,086	(0.16)		EXCAVATION, FILL, CLEARING AND GRUBBING, EQUIPMENT OPERATIONS, AND PLANTING.
PERMANENT WETLAND IMPACT	56	(0.00)		EXCAVATION, FILL, CLEARING AND GRUBBING, EQUIPMENT OPERATIONS, AND PLANTING.



LEGEND

400	CONSTRUCTION CENTERLINE		OVERFLOW CHANNEL EDGE
	HIGHWAY RIGHT OF WAY	WB	WETLAND BOUNDARY
	TEMPORARY EASEMENT		EXISTING TREE
	EXISTING PAVED EDGE	OHW	ORDINARY HIGH WATER LINE
	EXISTING CURB AND GUTTER	CG CG	CLEARING AND GRUBBING BOUNDARY
	EXISTING GRAVEL EDGE	CUT CUT	CUT LINE
	EXISTING DITCH LINE	FILL FILL	FILL LINE
	EXISTING CHANNEL EDGE		BRIDGE STRUCTURE
	EXISTING CULVERT		DIRECTION OF FLOW
OHW	EXISTING ORDINARY HIGH WATER LINE		

0 25 50
SCALE IN FEET

NOTES:

1. EXISTING LARGE WOODY MATERIAL LOCATED WITHIN THE ORDINARY HIGH WATER MARK THAT REQUIRED REMOVAL SHALL EITHER BE RETAINED ON-SITE AND REINSTALLED AT OR BELOW THE ORDINARY HIGH WATER MARK IN THE NEW CHANNEL, OR LARGE WOODY MATERIAL OF EQUAL OR GREATER VALUE SHALL BE INSTALLED IN ITS PLACE. THIS WORK IS INCIDENTAL TO THE LUMP SUMP BID ITEM "EARTHWORK".

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DESIGNED BY	D. HARRIS				CONTRACT NO.		LOCATION NO.
ENTERED BY	D. HARRIS						
CHECKED BY	E. WINTER						
PROJ. ENGR.	S. BEIER						
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY			

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SEE SHEET CT1
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SR 544
NOOKSACK RIVER OVERFLOW CULVERT ER PERMANENT REPAIR

ENVIRONMENTAL COMPLIANCE PLAN

Plot 1
PLAN REF NO
EC1
SHEET 24 OF 119 SHEETS

STRUCTURE NOTES - DRAINAGE

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

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

CODE	LOCATION ↓ \ UNIT OF MEASURE →	GRATE INLET TYPE 2	ROCK FOR EROSION AND SCOUR PROTECTION CLASS A		DRAIN PIPE 6 IN. DIAM.	CATCH BASIN TYPE 1	CATCH BASIN TYPE T-PVC	TESTING STORM SEWER PIPE	SCHEDULE A STORM SEWER PIPE 12 IN. DIAM.	SCHEDULE A STORM SEWER PIPE 18 IN. DIAM.	DUCKBILL CHECK VALVE 18 IN. DIAM.		COMPOST SOCK	CONSTRUCTION GEOTEXTILE FOR PERMANENT EROSION CONTROL			SEE GENERAL NOTES
		EACH	TON		EACH	EACH	EACH	L.F.	L.F.	L.F.	EACH		L.F.	S.Y.			
DR1-1	E 400+42.5 (73.9' LT) TO E 401+26.4 (71.6' LT)									79							4, 5, 6, 7
DR1-2	E 401+01.3 (73.0' LT) TO E 400+99.3 (31.1' LT)				41		1										2, 4, 7
DR1-3	E 400+99.3 (31.1' LT)						1						8				2, 7, 8
DR1-4	E 401+01.1 (39.8' LT)		4						31					10			4, 9
DR1-5	E 401+00.0 (13.0' LT) TO E 402+54.6 (13.0' LT)					1		155	155								1, 4
DR1-6	E 402+54.6 (13.0' LT)					1											1
DR1-7	E 402+56.3 (25.8' RT) TO E 402+60.1 (41.3' RT)	1	4						17					10			3, 4, 6, 9
DR1-8	E 403+06.0 (69.7' LT) TO E 403+23.0 (69.5' LT)									21	1						4, 5, 10
DR1-9	E 404+55.1 (22.6' RT) TO E 404+55.1 (40.2' RT)		4			1			19					10			1, 4, 6, 9
	SHEET TOTAL	1	12		41	3	2	155	222	100	1		8	30			
	PROJECT TOTAL	1	12		41	3	2	155	222	100	1		8	30			

GENERAL NOTES:

1. SEE STANDARD PLAN B-5.20 FOR CATCH BASIN TYPE 1.

2. SEE STANDARD PLAN B-10.40 FOR CATCH BASIN T-PVC.

3. SEE STANDARD PLAN B-35.40 FOR GRATE INLET TYPE 2.

4. SEE STANDARD PLAN B-55.20 FOR PIPE ZONE BEDDING AND BACKFILL.

5. SEE STANDARD PLAN B-60.20 FOR CONNECTION DETAILS FOR DISSIMILAR CULVERT PIPE.

6. SEE STANDARD PLAN B-70.20 FOR BEVELED END SECTIONS (FOR CULVERTS 30" DIAMETER OF LESS).

7. TEMPORARY DRAINAGE. REMOVE TEMPORARY DRAINAGE AFTER REMOVAL OF TEMPORARY BYPASS ROAD. MATERIAL SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.

8. SEE STANDARD PLAN I-30.40 COMPOST SOCK FOR CATCH BASIN INSTALLATION.

9. SEE SHEET DD1 FOR OUTLET PROTECTION DETAIL.

10. SEE SPECIAL PROVISIONS FOR DUCKBILL CHECK VALVE.

							REGION NO.	STATE	FED. AID PROJ. NO.									
							10	WASH										
DESIGNED BY	D. HARRIS																	
ENTERED BY	D. HARRIS						JOB NUMBER											
CHECKED BY	E. WINTER						26A012											
PROJ. ENGR.	S. BEIER						CONTRACT NO.											
REGION ADM.	B. NIELSEN																	
		DATE	**DATE**	**REVISION**		**BY**												

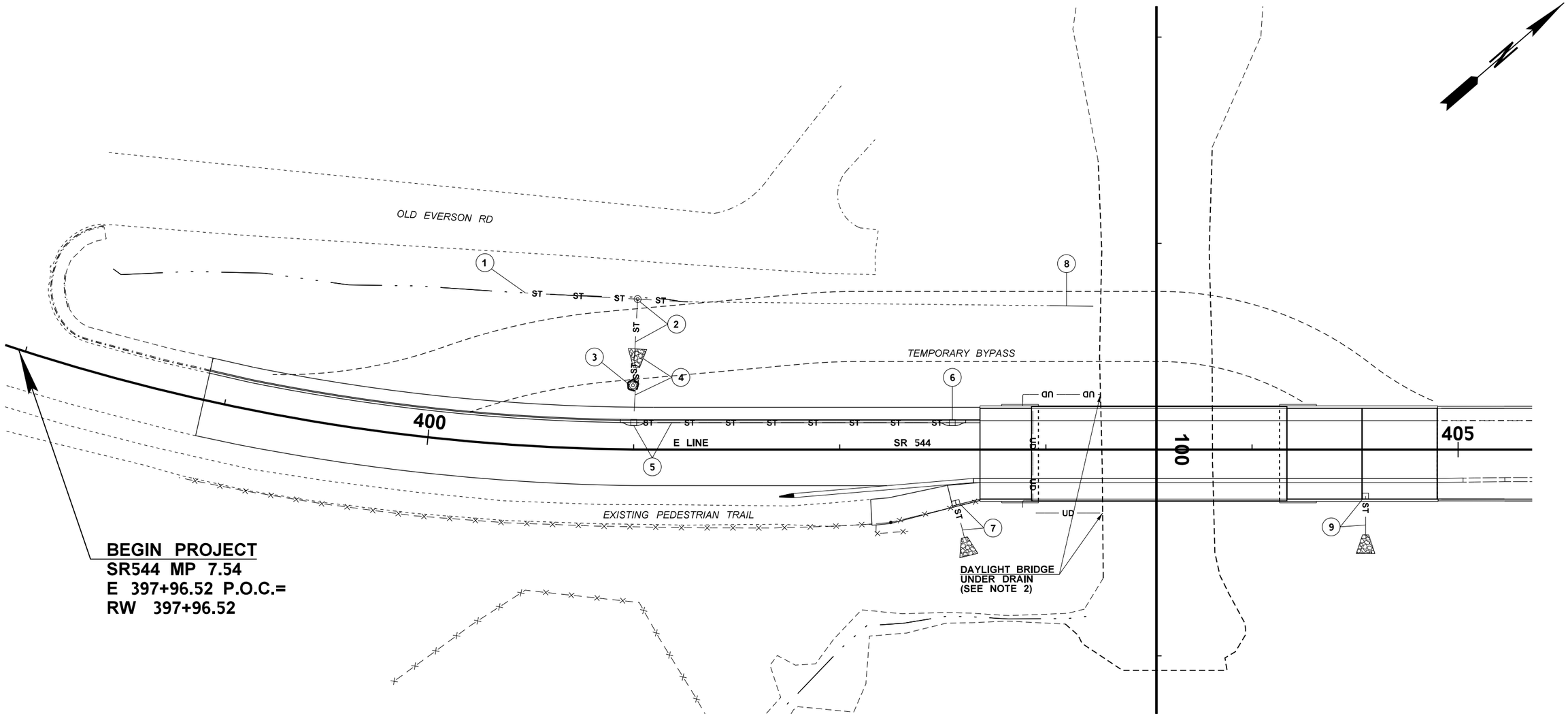
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SR 544
NOOKSACK RIVER OVERFLOW CULVERT ER PERMANENT REPAIR

STRUCTURE NOTES - DRAINAGE

SNDR1

SHEET 25 **OF** 119 **SHEETS**



LEGEND

400 — CONSTRUCTION CENTERLINE	EXISTING CHANNEL EDGE	UD — UD	UNDER DRAIN PIPE
EXISTING PAVED EDGE	TEMPORARY BYPASS EDGE	ST — ST	STORM SEWER PIPE
EXISTING GRAVEL EDGE	BRIDGE STRUCTURE		CULVERT
EXISTING CURB AND GUTTER	CURB AND GUTTER	□	CATCH BASIN
EXISTING SIDEWALK	CONC. SIDEWALK	⊞	GRATE INLET
EXISTING CHAIN LINK FENCE	EDGE OF PAVEMENT	◎	CATCH BASIN T-PVC
EXISTING DITCH LINE	PRECAST CONC. BARRIER		PIPE OUTLET PROTECTION
EXISTING CULVERT	CHAIN LINK FENCE		
EXISTING CATCH BASIN	OVERFLOW CHANNEL EDGE	(X)	STRUCTURE NOTE SEE SHEET SNDR1

0 25 50
SCALE IN FEET

NOTES:
1. SEE SHEET DD1 FOR OUTLET PROTECTION DETAIL.
2. SEE BRIDGE SHEETS FOR UNDER DRAIN DETAILS AND ELEVATIONS.

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DATE	9/24/2026
PLOTTED BY	hardoug
DESIGNED BY	D. HARRIS
ENTERED BY	D. HARRIS
CHECKED BY	E. WINTER
PROJ. ENGR.	S. BEIER
REGIONAL ADM.	B. NIELSEN

REVISION	DATE	BY

REGION NO.	STATE
10	WASH

JOB NUMBER 26A012
CONTRACT NO.
FED.AID PROJ.NO.
LOCATION NO.

SPENCER T. BEIER — STATE OF WASHINGTON — 36005 — REGISTERED PROFESSIONAL ENGINEER
SEE SHEET CT1
DATE
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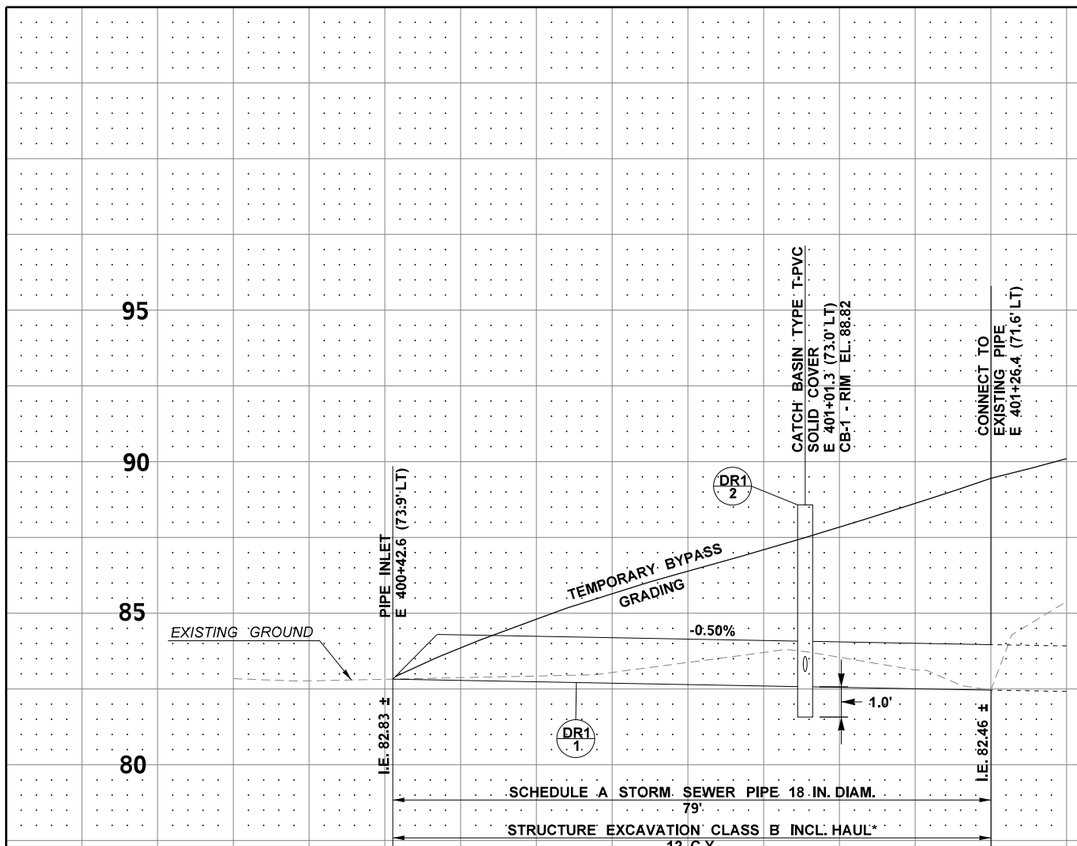
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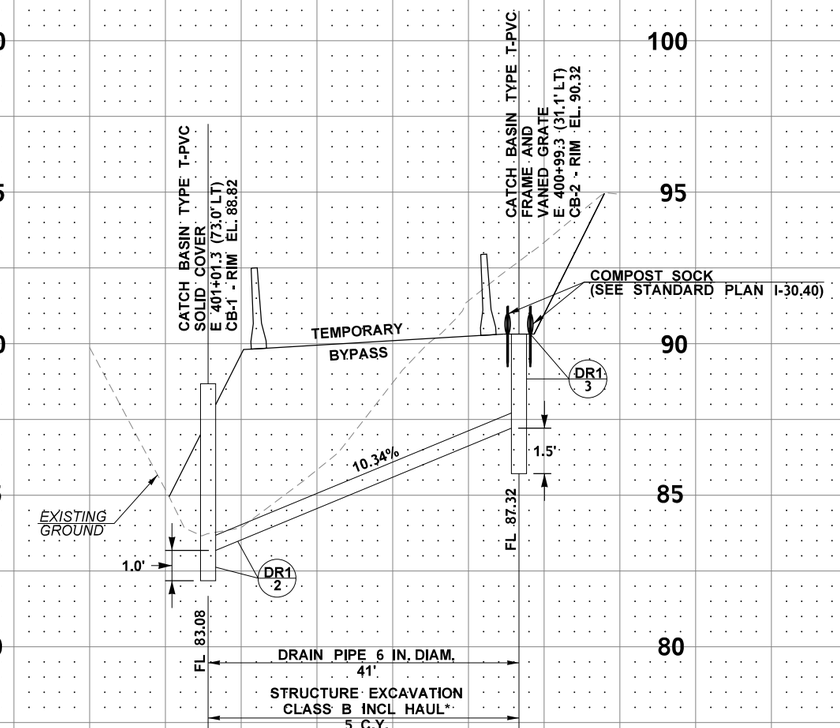
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SR 544
NOOKSACK RIVER OVERFLOW CULVERT ER PERMANENT REPAIR

DRAINAGE PLAN

Plot 1
PLAN REF NO DR1
SHEET 26 OF 119 SHEETS





NOTES:

1. FOR FINAL GROUND SEE ROADWAY SECTIONS AND GRADING PLAN.
2. STATIONS AND OFFSETS OF CATCH BASINS IS TO CENTER OF GRATE.
3. SEE STANDARD PLAN B-55.20 PIPE ZONE BEDDING AND BACKFILL FOR PIPE EXCAVATION AND BACKFILL SECTIONS.
4. REMOVE TEMPORARY DRAINAGE AFTER REMOVAL OF THE TEMPORARY BYPASS ROAD. ALL REMOVED MATERIAL WILL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE PROJECT.
5. SECURE ROCK AROUND CULVERT PIPE. USE CUSTOM FILTER ROCK TO CHOKE VOIDS AS NEEDED.

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ENTERED BY	D. HARRIS						
CHECKED BY	E. WINTER						
PROJ. ENGR.	S. BEIER						
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY			

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SEE SHEET CT1
DATE
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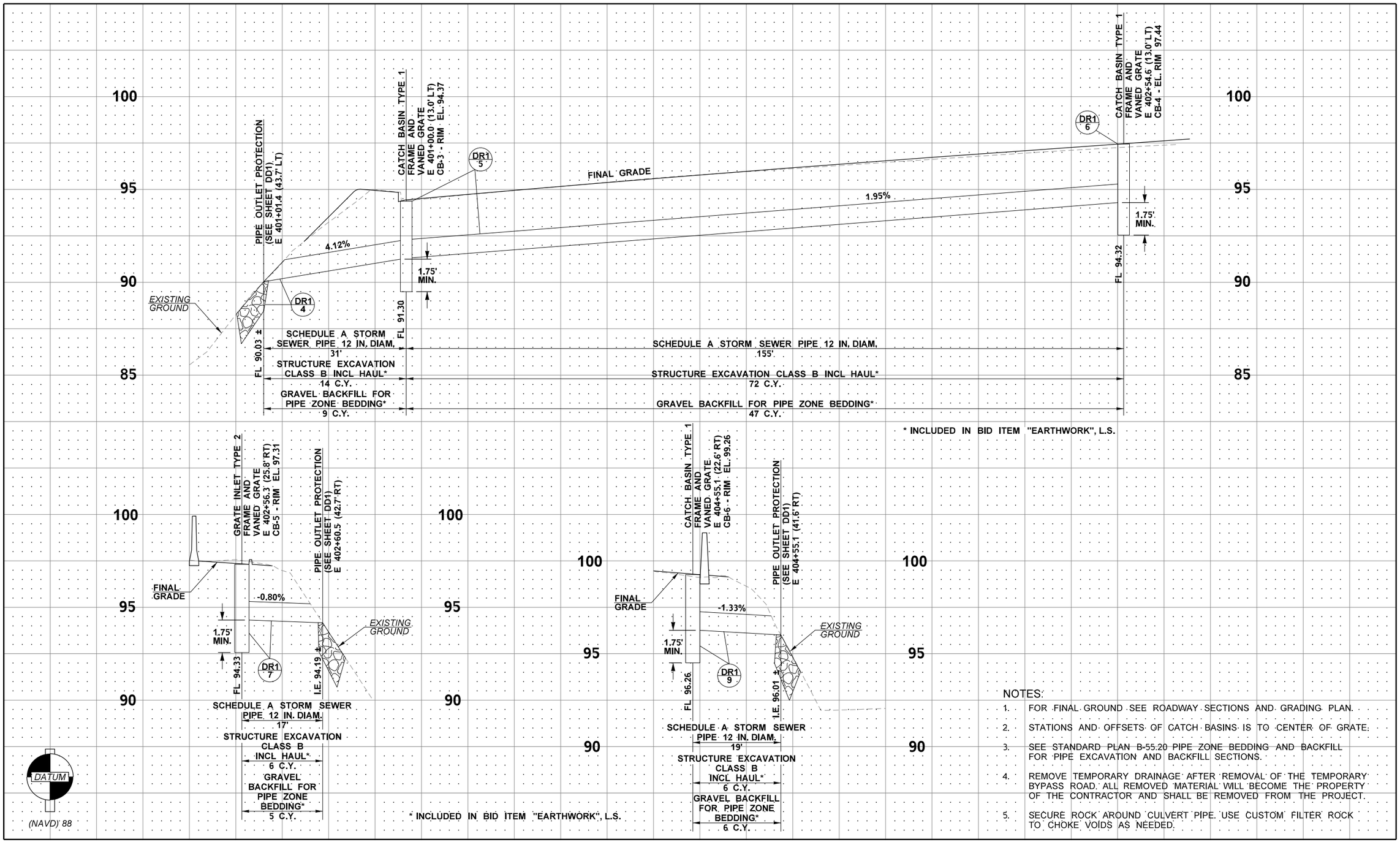
SR 544
NOOKSACK RIVER OVERFLOW CULVERT ER PERMANENT REPAIR

DRAINAGE PROFILES

Plot 2

PLAN REF. NO.
DP1

SHEET
27
OF
119
SHEETS



NOTES:

1. FOR FINAL GROUND SEE ROADWAY SECTIONS AND GRADING PLAN.
2. STATIONS AND OFFSETS OF CATCH BASINS IS TO CENTER OF GRATE.
3. SEE STANDARD PLAN B-55.20 PIPE ZONE BEDDING AND BACKFILL FOR PIPE EXCAVATION AND BACKFILL SECTIONS.
4. REMOVE TEMPORARY DRAINAGE AFTER REMOVAL OF THE TEMPORARY BYPASS ROAD. ALL REMOVED MATERIAL WILL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE PROJECT.
5. SECURE ROCK AROUND CULVERT PIPE. USE CUSTOM FILTER ROCK TO CHOKE VOIDS AS NEEDED.

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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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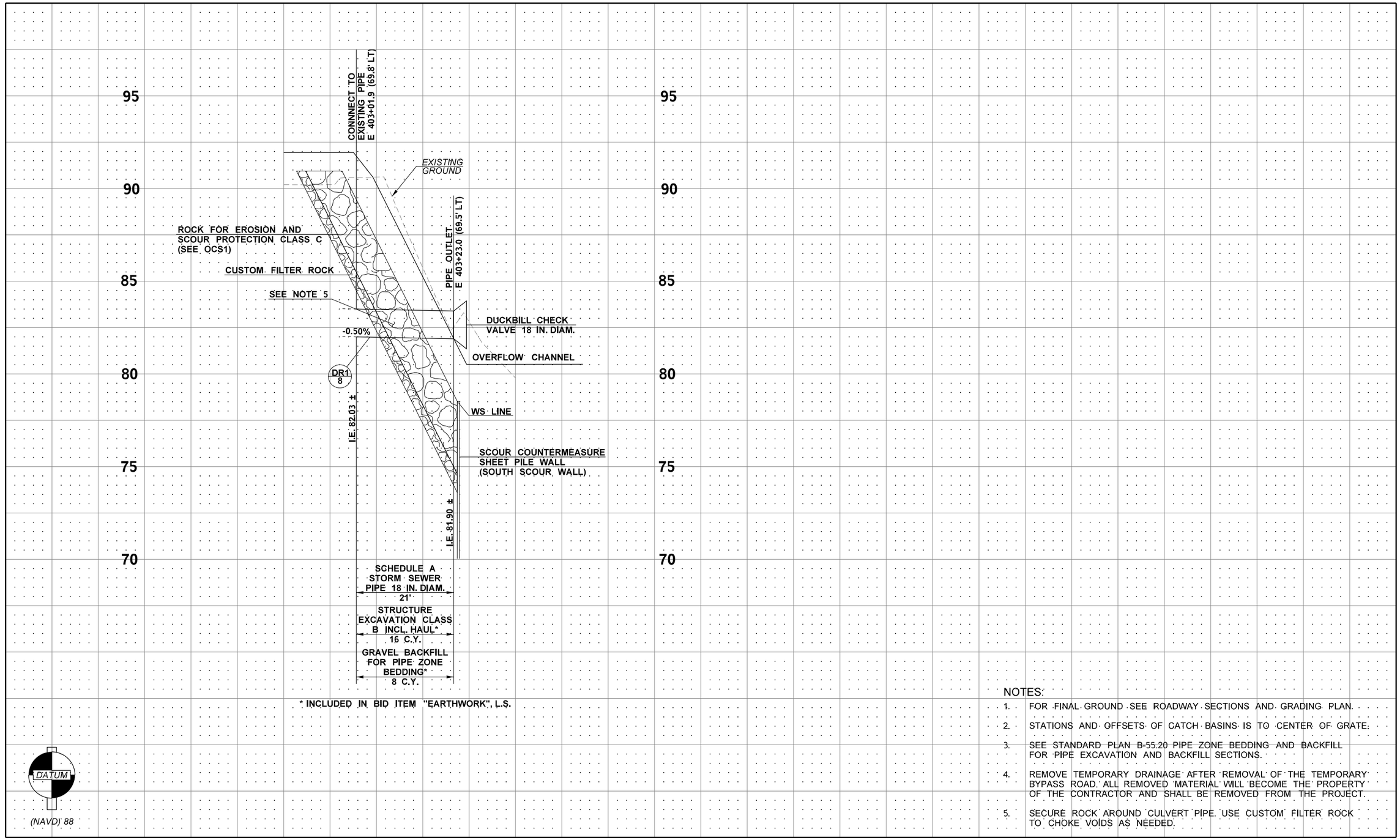
SR 544
NOOKSACK RIVER OVERFLOW CULVERT ER PERMANENT REPAIR

DRAINAGE PROFILES

Plot 3

PLAN REF. NO. DP2

SHEET 28 OF 119 SHEETS



NOTES:

1. FOR FINAL GROUND SEE ROADWAY SECTIONS AND GRADING PLAN.
2. STATIONS AND OFFSETS OF CATCH BASINS IS TO CENTER OF GRATE.
3. SEE STANDARD PLAN B-55.20 PIPE ZONE BEDDING AND BACKFILL FOR PIPE EXCAVATION AND BACKFILL SECTIONS.
4. REMOVE TEMPORARY DRAINAGE AFTER REMOVAL OF THE TEMPORARY BYPASS ROAD. ALL REMOVED MATERIAL WILL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE PROJECT.
5. SECURE ROCK AROUND CULVERT PIPE. USE CUSTOM FILTER ROCK TO CHOKE VOIDS AS NEEDED.

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DESIGNED BY	D. HARRIS			
ENTERED BY	D. HARRIS			
CHECKED BY	E. WINTER			
PROJ. ENGR.	S. BEIER			
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY

REGION NO.	STATE
10	WASH

JOB NUMBER 26A012

CONTRACT NO.

FED.AID PROJ.NO.

LOCATION NO.

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SEE SHEET CT1

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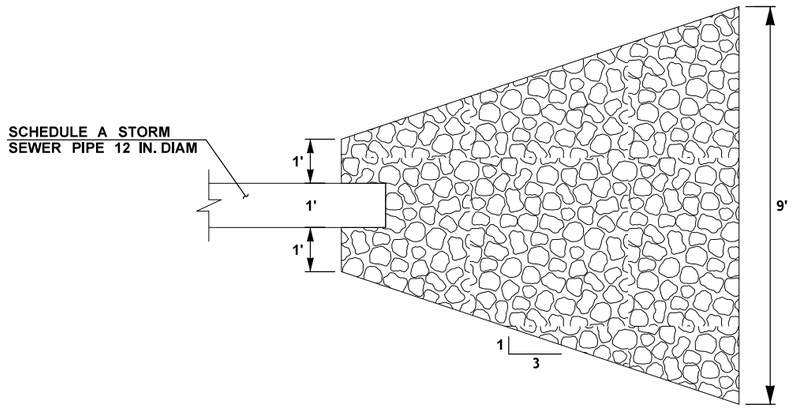
SR 544
NOOKSACK RIVER OVERFLOW CULVERT ER PERMANENT REPAIR

DRAINAGE PROFILES

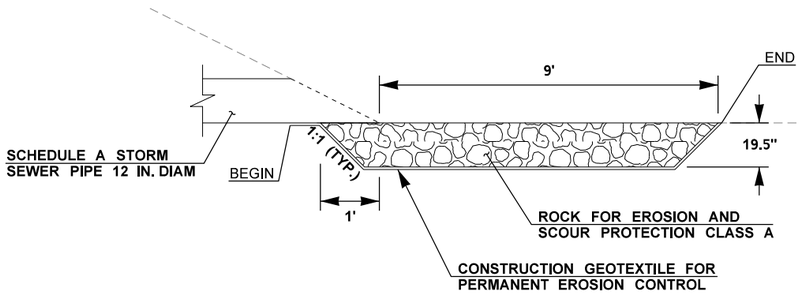
Plot 4

PLAN REF. NO. DP3

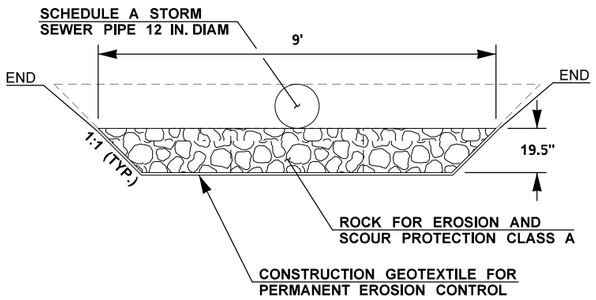
SHEET 29 OF 119 SHEETS



PLAN VIEW
NOT TO SCALE



PROFILE VIEW
NOT TO SCALE



SECTION VIEW
NOT TO SCALE

OUTLET PROTECTION DETAIL

FILE NAME	T:\412334\XL6549 SR 544 Nooksack Overflow Repair_CAE\CAD\ContractPlans\XL6549_150_PS_DR.dgn				REGION NO. / STATE	FED.AID PROJ.NO.	Plot 5
TIME	8:12:44 PM				10 / WASH		PLAN REF NO DD1
DATE	9/24/2026				JOB NUMBER 26A012		
PLOTTED BY	hardoug				CONTRACT NO.	LOCATION NO.	SHEET 30 OF 119 SHEETS
DESIGNED BY	D. HARRIS						
ENTERED BY	D. HARRIS						
CHECKED BY	E. WINTER						
PROJ. ENGR.	S. BEIER						
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY			

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

DATE
P.E. STAMP BOX

Washington State Department of Transportation

SR 544
NOOKSACK RIVER OVERFLOW CULVERT ER PERMANENT REPAIR

DRAINAGE DETAILS

BEGIN PROJECT
SR544 MP 7.54
E 397+96.52 P.O.C.=
RW 397+96.52

OLD EVERSON RD

EXISTING PEDESTRIAN TRAIL

E LINE

SR 544

O LINE

OVERFLOW CHANNEL

400

405

STREAMBED COBBLE 8 IN. AND STREAMBED SEDIMENT MIXTURE (SEE SHEET LD3)

ROCK FOR EROSION AND SCOUR PROTECTION CLASS C (SEE SHEET OCS1 - OCS3)

SOUTH SCOUR PAD SEE SHEET OAD1

NORTH SCOUR PAD SEE SHEET OAD1

SOUTH SCOUR COUNTERMEASURE SHEET PILE WALL

NORTH SCOUR COUNTERMEASURE SHEET PILE WALL

LEGEND

CONSTRUCTION ALIGNMENTS	BRIDGE STRUCTURE
RIGHT OF WAY	CUT LINE
TEMPORARY EASEMENT	FILL LINE
EXISTING PAVED EDGE	SLOPE LINE
EXISTING CURB AND GUTTER	OVERFLOW CHANNEL EDGE
EXISTING SIDEWALK	STORM SEWER PIPE
EXISTING CONC. BARRIER	CULVERT
EXISTING CHAIN LINK FENCE	CATCH BASIN
EXISTING CULVERT	GRATE INLET
EXISTING DITCH LINE	PIPE OUTLET PROTECTION
EXISTING CHANNEL EDGE	STREAMBED COBBLE 8 IN. AND STREAMBED SEDIMENT MIXTURE
EXISTING STRUCTURE	ROCK FOR EROSION AND SCOUR PROTECTION CLASS C
EGDE OF PAVEMENT	
CURB AND GUTTER	
CONC. SIDEWALK	
PRECAST CONC. BARRIER	
CHAIN LINK FENCE	

0 25 50
SCALE IN FEET

GENERAL NOTES:

1. SEE SHEET OCP1 FOR OVERFLOW CHANNEL PROFILE.
2. SEE SHEET OCWP1 - OCWP2 FOR SCOUR COUNTERMEASURE SHEET PILE WALL PROFILES.
3. SEE SHEET OCS1 - OCS3 FOR OVERFLOW CHANNEL SECTIONS.

FILE NAME	T:\412334\XL6549 SR 544 Nooksack Overflow Repair_CAE\CAD\ContractPlans\XL6549_160_PS_OverflowChannel.dgn			
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DATE	9/24/2026			
PLOTTED BY	hardoug			
DESIGNED BY	D. HARRIS			
ENTERED BY	D. HARRIS			
CHECKED BY	E. WINTER			
PROJ. ENGR.	S. BEIER			
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY

REGION NO. 10 | STATE WASH
JOB NUMBER 26A012
CONTRACT NO.

FED.AID PROJ.NO.

LOCATION NO.

SPENCER T. BEIER — STATE OF WASHINGTON — 142005 — REGISTERED PROFESSIONAL ENGINEER
SEE SHEET CT1
DATE
P.E. STAMP BOX

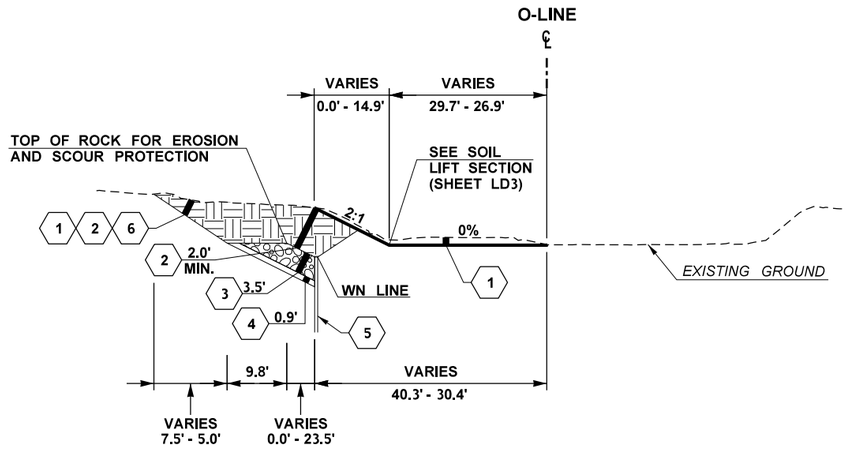
DATE
P.E. STAMP BOX

Washington State Department of Transportation

SR 544
NOOKSACK RIVER OVERFLOW CULVERT ER PERMANENT REPAIR

OVERFLOW CHANNEL PLAN

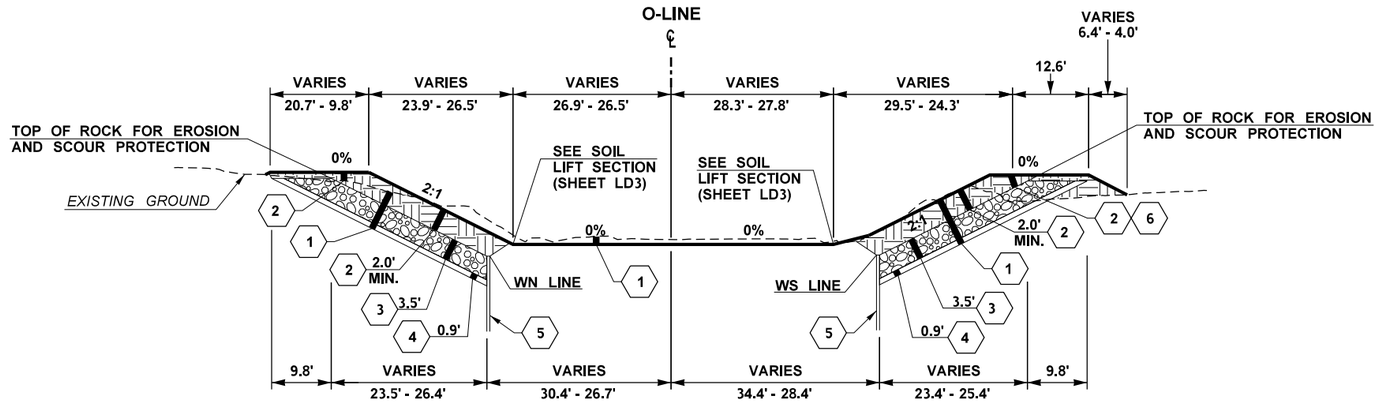
Plot 1
PLAN REF NO **OC1**
SHEET 31 OF 119 SHEETS



OVERFLOW CHANNEL SECTION A

STA. O 98+50 TO STA. O 98+60

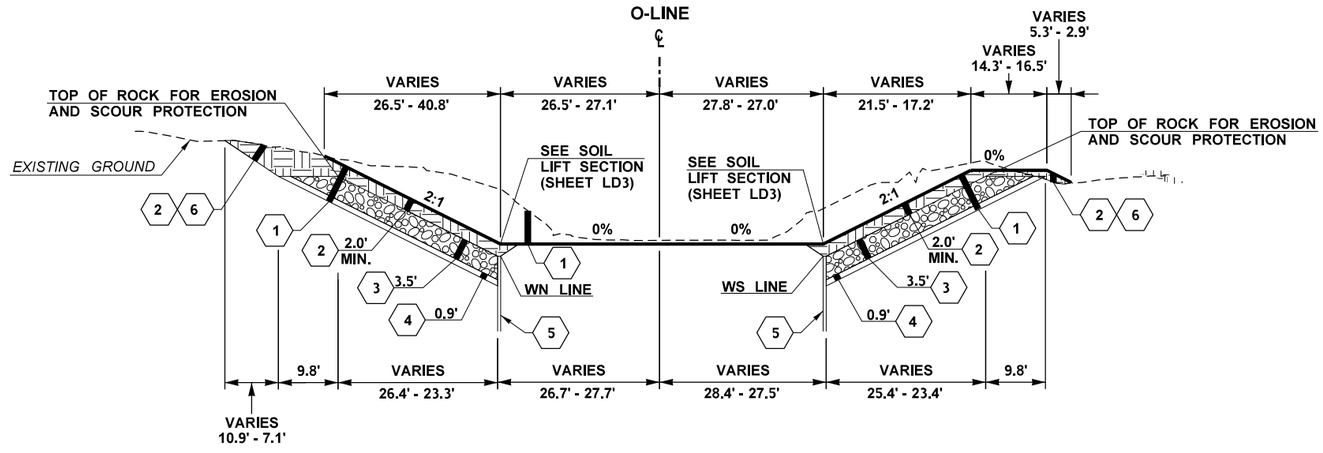
NOT TO SCALE



OVERFLOW CHANNEL SECTION B

STA. O 98+60 TO STA. O 98+73

NOT TO SCALE



OVERFLOW CHANNEL SECTION C

STA. O 98+73 TO STA. O 99+79

NOT TO SCALE

LEGEND

1. CHANNEL EXCAVATION INCL. HAUL*
2. SOIL PREPARATION (SEE SHEET SPP1)
3. ROCK FOR EROSION AND SCOUR PROTECTION CLASS C
4. CUSTOM FILTER ROCK
5. SCOUR COUNTERMEASURE SHEET PILE WALL
6. EMBANKMENT COMPACTION* (SITE BORROW)

* INCLUDED IN BID ITEM "EARTHWORK", L.S.

GENERAL NOTES:

1. SEE SHEET OCWP1 AND OCWP2 FOR SHEET PILE WALL AND TOP OF ROCK FOR EROSION AND SCOUR PROTECTION ELEVATIONS.
2. SEE SOIL PREPARATION PLAN FOR TOPSOIL LOCATIONS AND DEPTHS.
3. FILL ROCK FOR EROSION AND SCOUR PROTECTION VOIDS WITH NATIVE MATERIAL OR COMMON BORROW PER SHEET LD1.

FILE NAME	T:\412334\XL6549 SR 544 Nooksack Overflow Repair_CAE\CAD\ContractPlans\XL6549_160_PS_OverflowChannel.dgn				REGION NO.	STATE	FED.AID PROJ.NO.
TIME	8:16:44 PM				10	WASH	
DATE	9/24/2026				JOB NUMBER		
PLOTTED BY	hardoug				26A012		
DESIGNED BY	D. HARRIS				CONTRACT NO.		LOCATION NO.
ENTERED BY	T. KONKLE						
CHECKED BY	E. WINTER						
PROJ. ENGR.	S. BEIER						
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY			

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

SEE SHEET CT1

P.E. STAMP BOX — DATE

P.E. STAMP BOX — DATE

Washington State Department of Transportation

SR 544

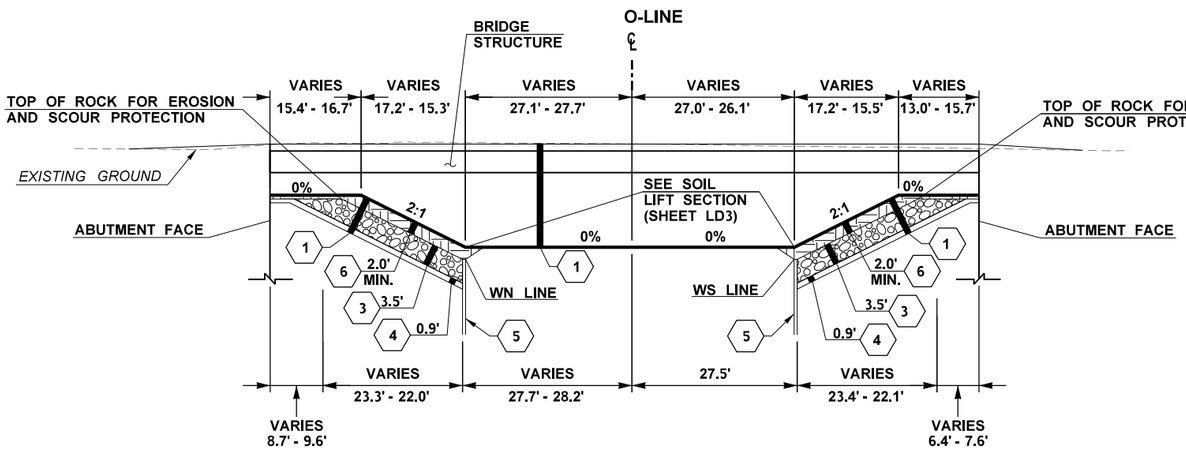
NOOKSACK RIVER OVERFLOW CULVERT ER PERMANENT REPAIR

OVERFLOW CHANNEL SECTIONS

Plot 2

PLAN REF NO OCS1

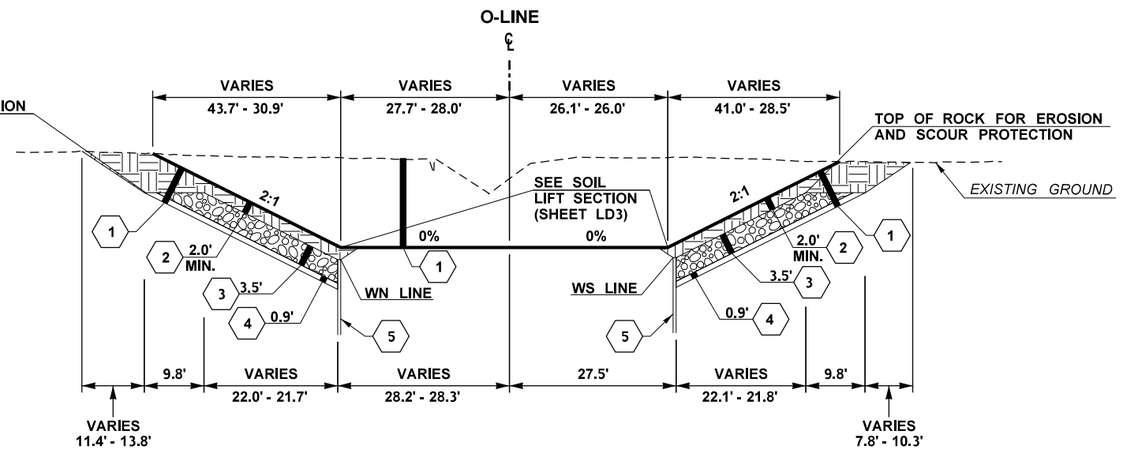
SHEET 32 OF 119 SHEETS



OVERFLOW CHANNEL SECTION D

STA. O 99+79 TO STA. O 100+25

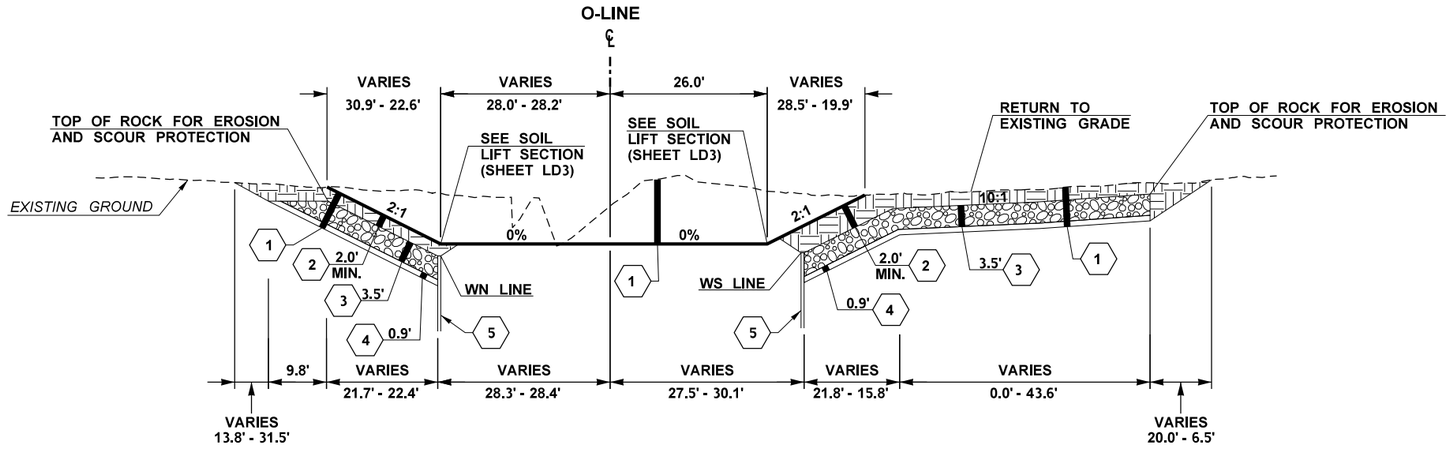
NOT TO SCALE



OVERFLOW CHANNEL SECTION E

STA. O 100+25 TO STA. O 100+35

NOT TO SCALE



OVERFLOW CHANNEL SECTION F

STA. O 100+35 TO STA. O 100+43

NOT TO SCALE

LEGEND

1. CHANNEL EXCAVATION INCL. HAUL*
2. SOIL PREPARATION (SEE SHEET SPP1)
3. ROCK FOR EROSION AND SCOUR PROTECTION CLASS C
4. CUSTOM FILTER ROCK
5. SCOUR COUNTERMEASURE SHEET PILE WALL
6. EMBANKMENT COMPACTION* (SITE BORROW)

* INCLUDED IN BID ITEM "EARTHWORK", L.S.

GENERAL NOTES:

1. SEE SHEET OCWP1 AND OCWP2 FOR SHEET PILE WALL AND TOP OF ROCK FOR EROSION AND SCOUR PROTECTION ELEVATIONS.
2. SEE SOIL PREPARATION PLAN FOR TOPSOIL LOCATIONS AND DEPTHS.
3. FILL ROCK FOR EROSION AND SCOUR PROTECTION VOIDS WITH NATIVE MATERIAL OR COMMON BORROW PER SHEET LD1.

FILE NAME	T:\412334\XL6549 SR 544 Nooksack Overflow Repair_CAE\CAD\ContractPlans\XL6549_160_PS_OverflowChannel.dgn				REGION NO.	STATE	FED.AID PROJ.NO.
TIME	8:16:48 PM				10	WASH	
DATE	9/24/2026				JOB NUMBER		
PLOTTED BY	hardoug				26A012		
DESIGNED BY	D. HARRIS				CONTRACT NO.		LOCATION NO.
ENTERED BY	T. KONKLE						
CHECKED BY	E. WINTER						
PROJ. ENGR.	S. BEIER						
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY			

SPENCER T. BEIER — STATE OF WASHINGTON — 36006 — REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1 DATE

P.E. STAMP BOX

DATE

P.E. STAMP BOX

Washington State Department of Transportation

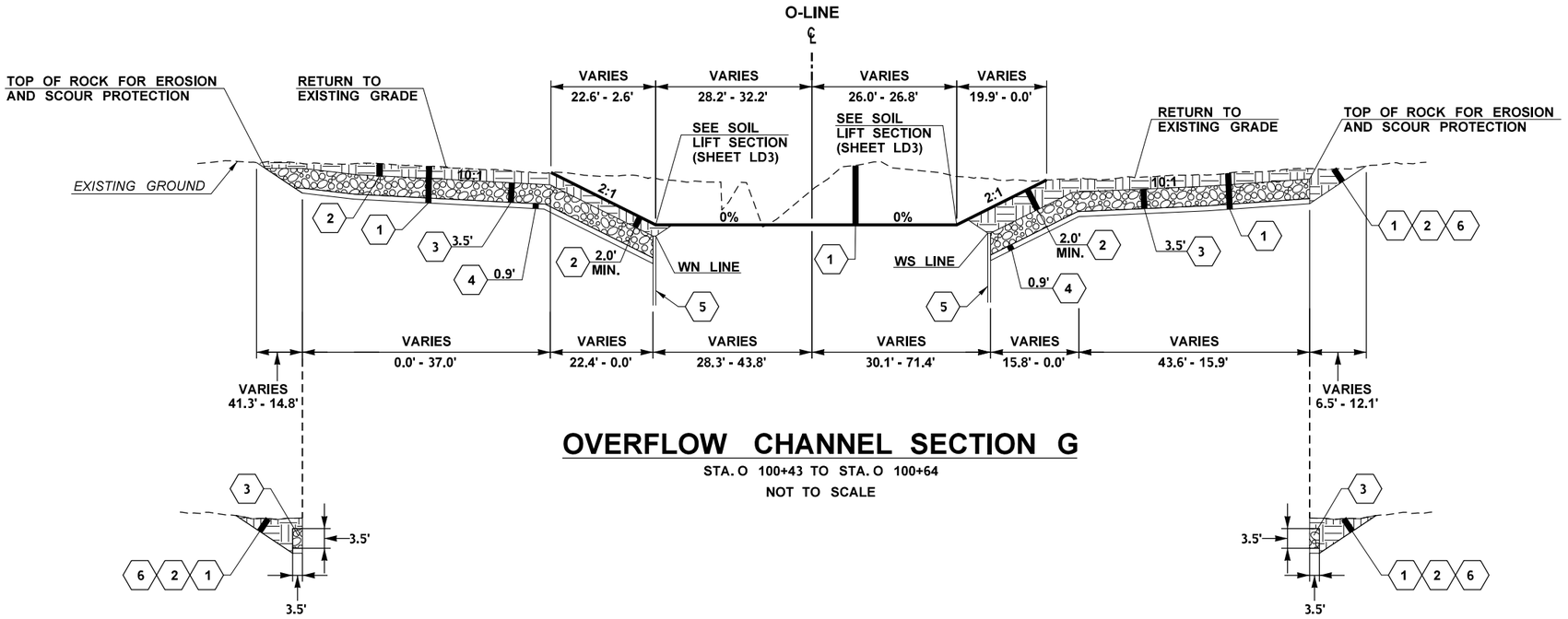
SR 544
NOOKSACK RIVER OVERFLOW CULVERT ER PERMANENT REPAIR

OVERFLOW CHANNEL SECTIONS

Plot 3

PLAN REF NO
OCS2

SHEET 33 OF 119 SHEETS



OVERFLOW CHANNEL SECTION G

STA. O 100+43 TO STA. O 100+64

NOT TO SCALE

ALTERNATE SCOUR PAD END

STA. O 100+53.5 TO STA. O 100+65.5

(SEE ADDITIONAL DETAIL SHEET OAD1)

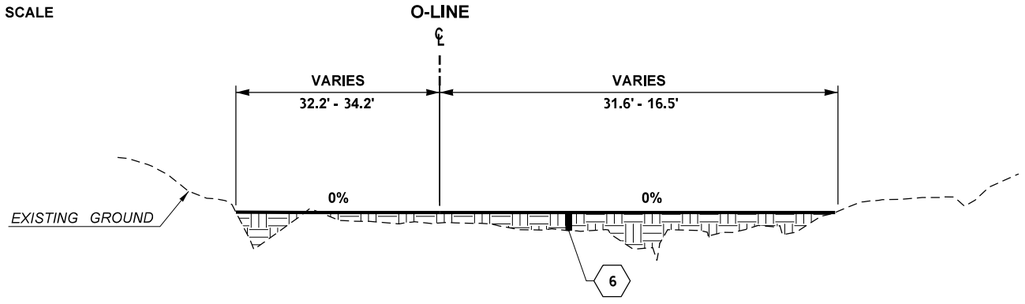
NOT TO SCALE

ALTERNATE SCOUR PAD END

STA. O 100+50.0 TO STA. O 100+62.0

(SEE ADDITIONAL DETAIL SHEET OAD1)

NOT TO SCALE



OVERFLOW CHANNEL SECTION H

STA. O 100+64 TO STA. O 101+07

NOT TO SCALE

LEGEND

1. CHANNEL EXCAVATION INCL. HAUL*
2. SOIL PREPARATION (SEE SHEET SPP1)
3. ROCK FOR EROSION AND SCOUR PROTECTION CLASS C
4. CUSTOM FILTER ROCK
5. SCOUR COUNTERMEASURE SHEET PILE WALL
6. EMBANKMENT COMPACTION* (SITE BORROW)

* INCLUDED IN BID ITEM "EARTHWORK", L.S.

GENERAL NOTES:

1. SEE SHEET OCWP1 AND OCWP2 FOR SHEET PILE WALL AND TOP OF ROCK FOR EROSION AND SCOUR PROTECTION ELEVATIONS.
2. SEE SOIL PREPARATION PLAN FOR TOPSOIL LOCATIONS AND DEPTHS.
3. FILL ROCK FOR EROSION AND SCOUR PROTECTION VOIDS WITH NATIVE MATERIAL OR COMMON BORROW PER SHEET LD1.

FILE NAME	T:\412334\XL6549 SR 544 Nooksack Overflow Repair_CAE\CAD\ContractPlans\XL6549_160_PS_OverflowChannel.dgn				REGION NO.	STATE	FED.AID PROJ.NO.
TIME	8:16:52 PM				10	WASH	
DATE	9/24/2026				JOB NUMBER		
PLOTTED BY	hardoug				26A012		
DESIGNED BY	D. HARRIS				CONTRACT NO.		LOCATION NO.
ENTERED BY	T. KONKLE						
CHECKED BY	E. WINTER						
PROJ. ENGR.	S. BEIER						
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY			

SPENCER T. BEIER — STATE OF WASHINGTON — 14005 — REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1

DATE

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DATE

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SR 544

NOOKSACK RIVER OVERFLOW CULVERT ER PERMANENT REPAIR

OVERFLOW CHANNEL SECTIONS

Plot 4

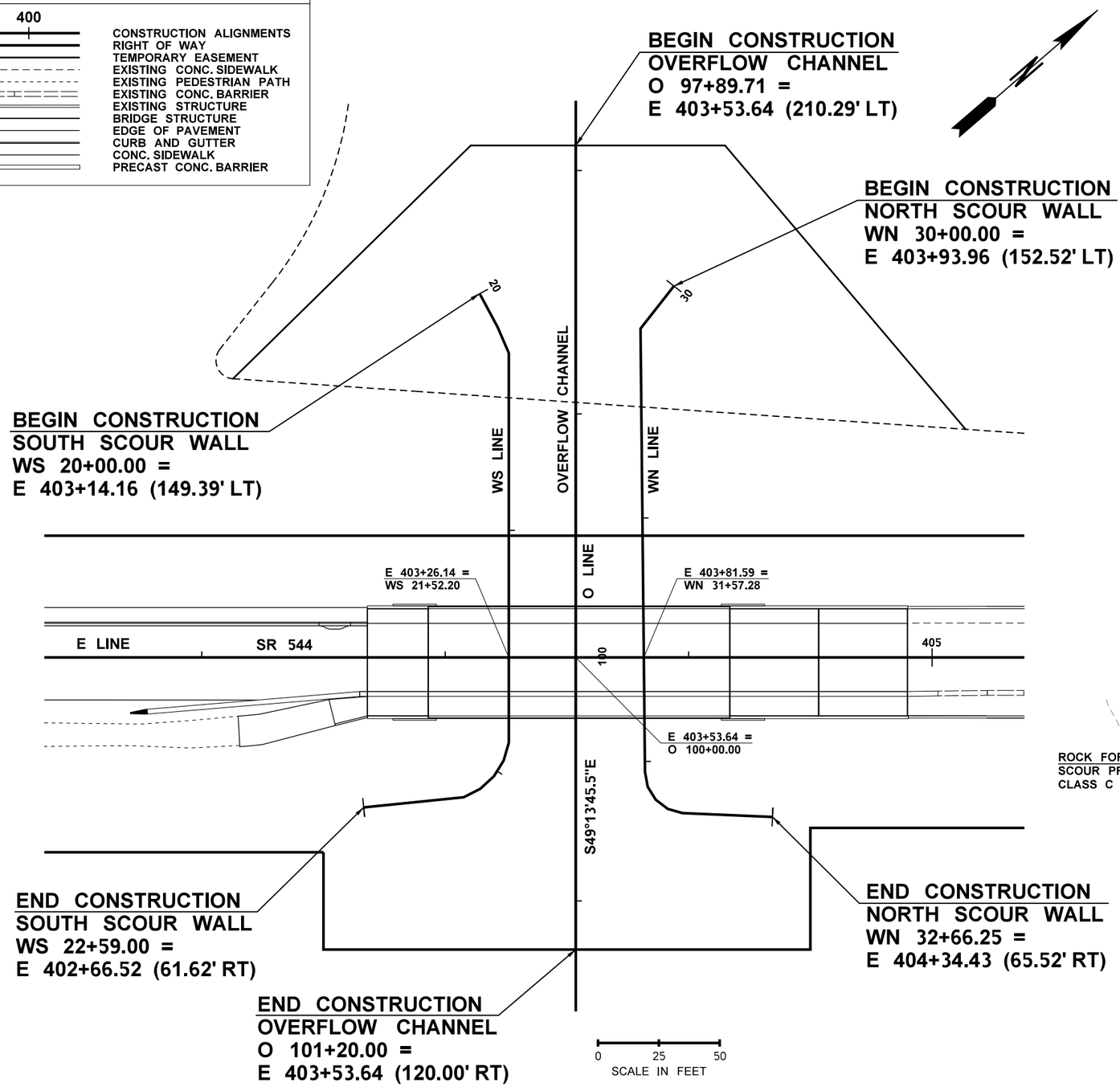
PLAN REF NO OCS3

SHEET 34 OF 119 SHEETS

LEGEND

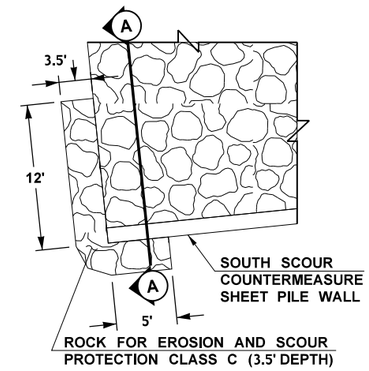
400

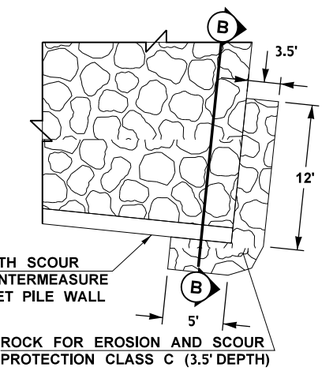
- CONSTRUCTION ALIGNMENTS
- RIGHT OF WAY
- TEMPORARY EASEMENT
- EXISTING CONC. SIDEWALK
- EXISTING PEDESTRIAN PATH
- EXISTING CONC. BARRIER
- EXISTING STRUCTURE
- BRIDGE STRUCTURE
- EDGE OF PAVEMENT
- CURB AND GUTTER
- CONC. SIDEWALK
- PRECAST CONC. BARRIER



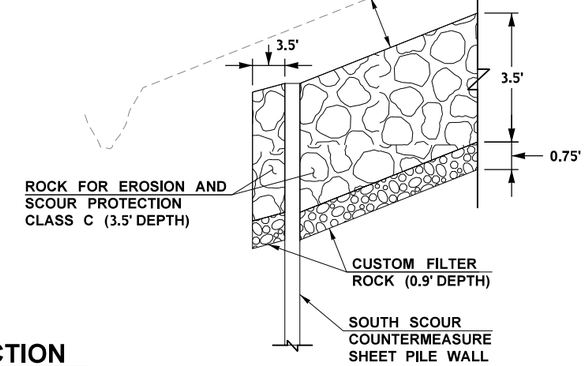
SCOUR WALL LINE DATA

ANGLE POINT	DIRECTION	LENGTH (FT)	ANGLE POINT	DIRECTION	LENGTH (FT)
WS 20+00.00	S 77°32'27.54" E	15.53	WN 30+00.00	S 11°02'43.14" E	22.19
WS 20+15.53	S 72°36'36.99" E	11.63	WN 30+22.19	S 49°48'07.56" E	182.05
WS 20+27.16	S 49°13'45.45" E	160.04	WN 32+04.24	S 59°35'20.19" E	6.25
WS 21+87.20	S 33°09'29.33" E	7.63	WN 32+10.49	S 80°51'33.30" E	6.25
WS 21+94.83	S 17°28'35.86" E	7.63	WN 32+16.75	N 77°52'13.59" E	6.25
WS 22+02.46	S 1°47'42.38" E	7.63	WN 32+23.00	N 56°36'00.48" E	6.25
WS 22+10.09	S 13°53'11.09" W	7.63	WN 32+29.25	N 43°15'24.40" E	37.01
WS 22+17.72	S 34°57'07.86" W	41.29	WN 32+66.25	END	END
WS 22+59.00	END	END			



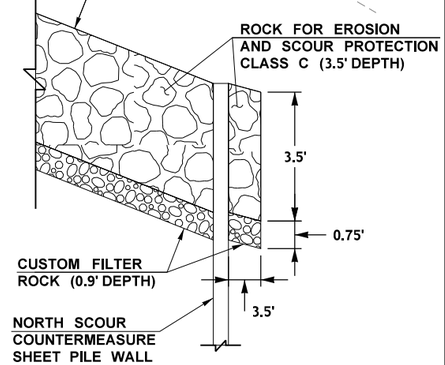


PLAN VIEW
NOT TO SCALE



SECTION VIEW A-A
NOT TO SCALE

SOUTH SCOUR PAD DETAIL



SECTION VIEW B-B
NOT TO SCALE

NORTH SCOUR PAD DETAIL

GENERAL NOTES:

1. SEE SHEET OCP1 FOR OVERFLOW CHANNEL PROFILE.
2. SEE SHEET OCWP1 - OCWP2 FOR SCOUR COUNTERMEASURE SHEET PILE WALL PROFILES.

FILE NAME	T:\412334\XL6549 SR 544 Nooksack Overflow Repair_CAE\CAD\ContractPlans\XL6549_160_PS_OverflowChannel.dgn				REGION NO.	STATE	FED.AID PROJ.NO.
TIME	8:16:55 PM				10	WASH	
DATE	9/24/2026				JOB NUMBER		
PLOTTED BY	hardoug				26A012		
DESIGNED BY	D. HARRIS				CONTRACT NO.		LOCATION NO.
ENTERED BY	D. HARRIS						
CHECKED BY	E. WINTER						
PROJ. ENGR.	S. BEIER						
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY			

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

SEE SHEET CT1
DATE
P.E. STAMP BOX

DATE
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Washington State Department of Transportation

SR 544
NOOKSACK RIVER OVERFLOW CULVERT ER PERMANENT REPAIR

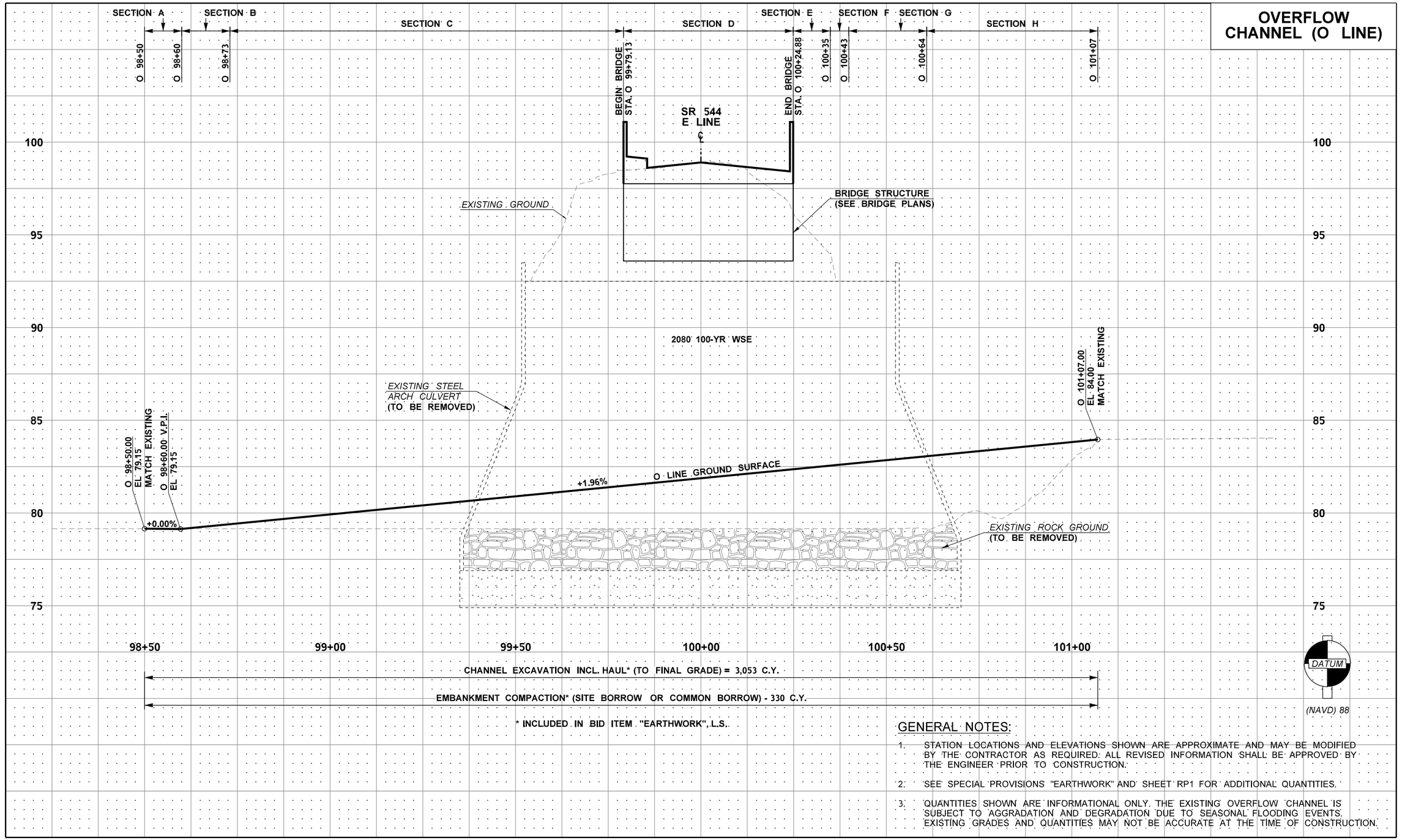
OVERFLOW ALIGNMENT AND DETAILS

Plot 5

PLAN REF NO
OAD1

SHEET
35
OF
119
SHEETS

OVERFLOW CHANNEL (O LINE)



CHANNEL EXCAVATION INCL. HAUL* (TO FINAL GRADE) = 3,053 C.Y.

EMBANKMENT COMPACTION* (SITE BORROW OR COMMON BORROW) - 330 C.Y.

* INCLUDED IN BID ITEM "EARTHWORK", L.S.

GENERAL NOTES:

1. STATION LOCATIONS AND ELEVATIONS SHOWN ARE APPROXIMATE AND MAY BE MODIFIED BY THE CONTRACTOR AS REQUIRED. ALL REVISED INFORMATION SHALL BE APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION.
2. SEE SPECIAL PROVISIONS "EARTHWORK" AND SHEET RP1 FOR ADDITIONAL QUANTITIES.
3. QUANTITIES SHOWN ARE INFORMATIONAL ONLY. THE EXISTING OVERFLOW CHANNEL IS SUBJECT TO AGGRADATION AND DEGRADATION DUE TO SEASONAL FLOODING EVENTS. EXISTING GRADES AND QUANTITIES MAY NOT BE ACCURATE AT THE TIME OF CONSTRUCTION.

FILE NAME	T:\412334\XL6549 SR 544 Nooksack Overflow Repair_CAE\CAD\ContractPlans\XL6549_160_PS_OverflowChannel.dgn				REGION NO.	STATE	FED.AID PROJ.NO.
TIME	8:17:00 PM				10	WASH	
DATE	9/24/2026				JOB NUMBER		
PLOTTED BY	hardoug				26A012		
DESIGNED BY	D. HARRIS				CONTRACT NO.		LOCATION NO.
ENTERED BY	D. HARRIS						
CHECKED BY	E. WINTER						
PROJ. ENGR.	S. BEIER						
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY			

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

SEE SHEET CT1 — DATE — P.E. STAMP BOX

DATE — P.E. STAMP BOX

Washington State Department of Transportation

SR 544
NOOKSACK RIVER OVERFLOW CULVERT ER PERMANENT REPAIR

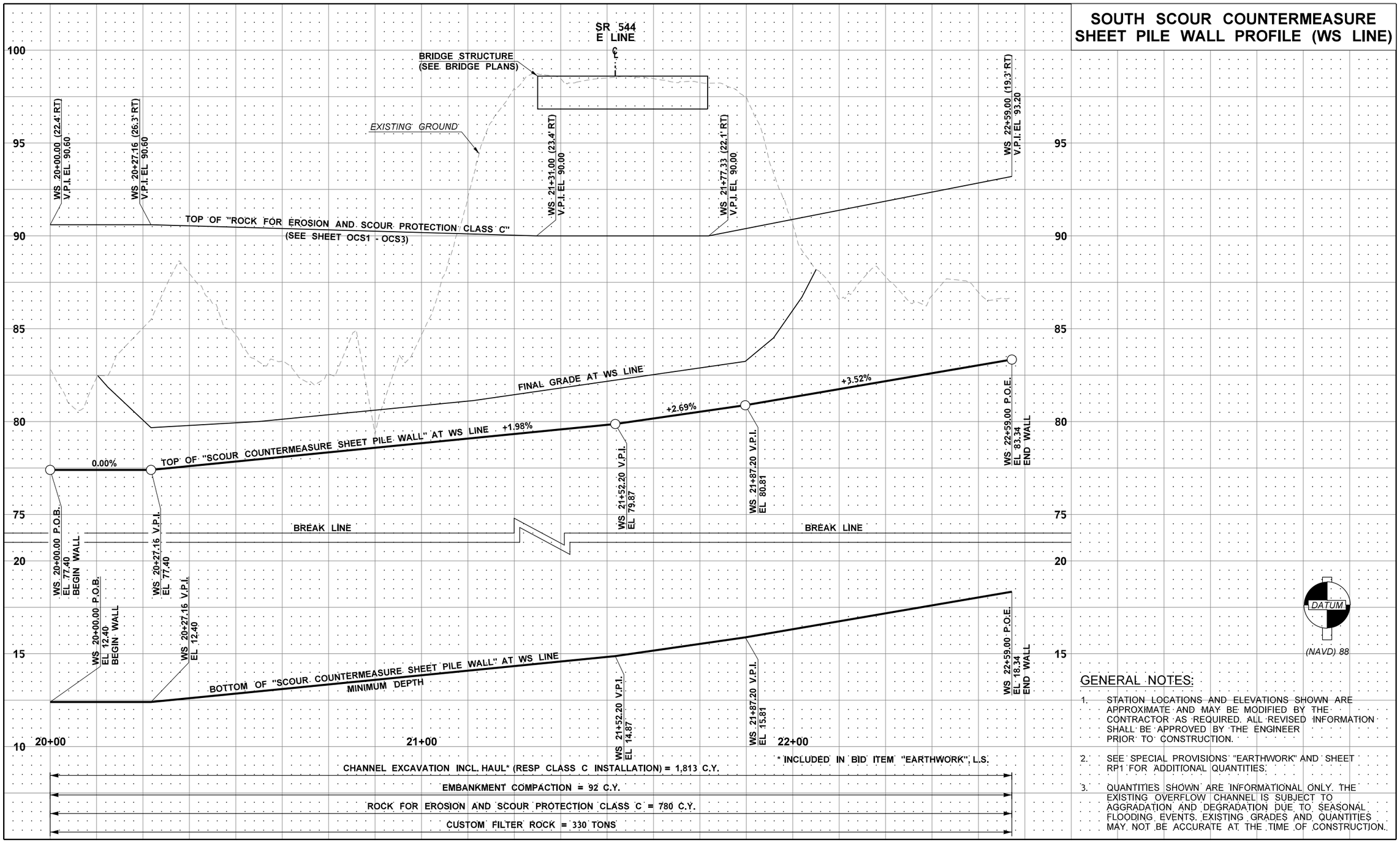
OVERFLOW CHANNEL PROFILE

Plot 6

PLAN REF. NO. OCP1

SHEET 36 OF 119 SHEETS

SOUTH SCOUR COUNTERMEASURE SHEET PILE WALL PROFILE (WS LINE)



CHANNEL EXCAVATION INCL. HAUL* (RESP CLASS C INSTALLATION) = 1,813 C.Y.

EMBANKMENT COMPACTION = 92 C.Y.

ROCK FOR EROSION AND SCOUR PROTECTION CLASS C = 780 C.Y.

CUSTOM FILTER ROCK = 330 TONS

* INCLUDED IN BID ITEM "EARTHWORK", L.S.

GENERAL NOTES:

1. STATION LOCATIONS AND ELEVATIONS SHOWN ARE APPROXIMATE AND MAY BE MODIFIED BY THE CONTRACTOR AS REQUIRED. ALL REVISED INFORMATION SHALL BE APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION.
2. SEE SPECIAL PROVISIONS "EARTHWORK" AND SHEET RP1 FOR ADDITIONAL QUANTITIES.
3. QUANTITIES SHOWN ARE INFORMATIONAL ONLY. THE EXISTING OVERFLOW CHANNEL IS SUBJECT TO AGGRADATION AND DEGRADATION DUE TO SEASONAL FLOODING EVENTS. EXISTING GRADES AND QUANTITIES MAY NOT BE ACCURATE AT THE TIME OF CONSTRUCTION.

FILE NAME	T:\412334\XL6549 SR 544 Nooksack Overflow Repair_CAE\CAD\ContractPlans\XL6549_160_PS_OverflowChannel.dgn				REGION NO.	STATE	FED.AID PROJ.NO.
TIME	8:17:05 PM				10	WASH	
DATE	9/24/2026				JOB NUMBER		
PLOTTED BY	hardoug				26A012		
DESIGNED BY	D. HARRIS				CONTRACT NO.		LOCATION NO.
ENTERED BY	D. HARRIS						
CHECKED BY	E. WINTER						
PROJ. ENGR.	S. BEIER						
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY			

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

SEE SHEET CT1

DATE

P.E. STAMP BOX

DATE

P.E. STAMP BOX

Washington State Department of Transportation

SR 544
NOOKSACK RIVER OVERFLOW CULVERT ER PERMANENT REPAIR

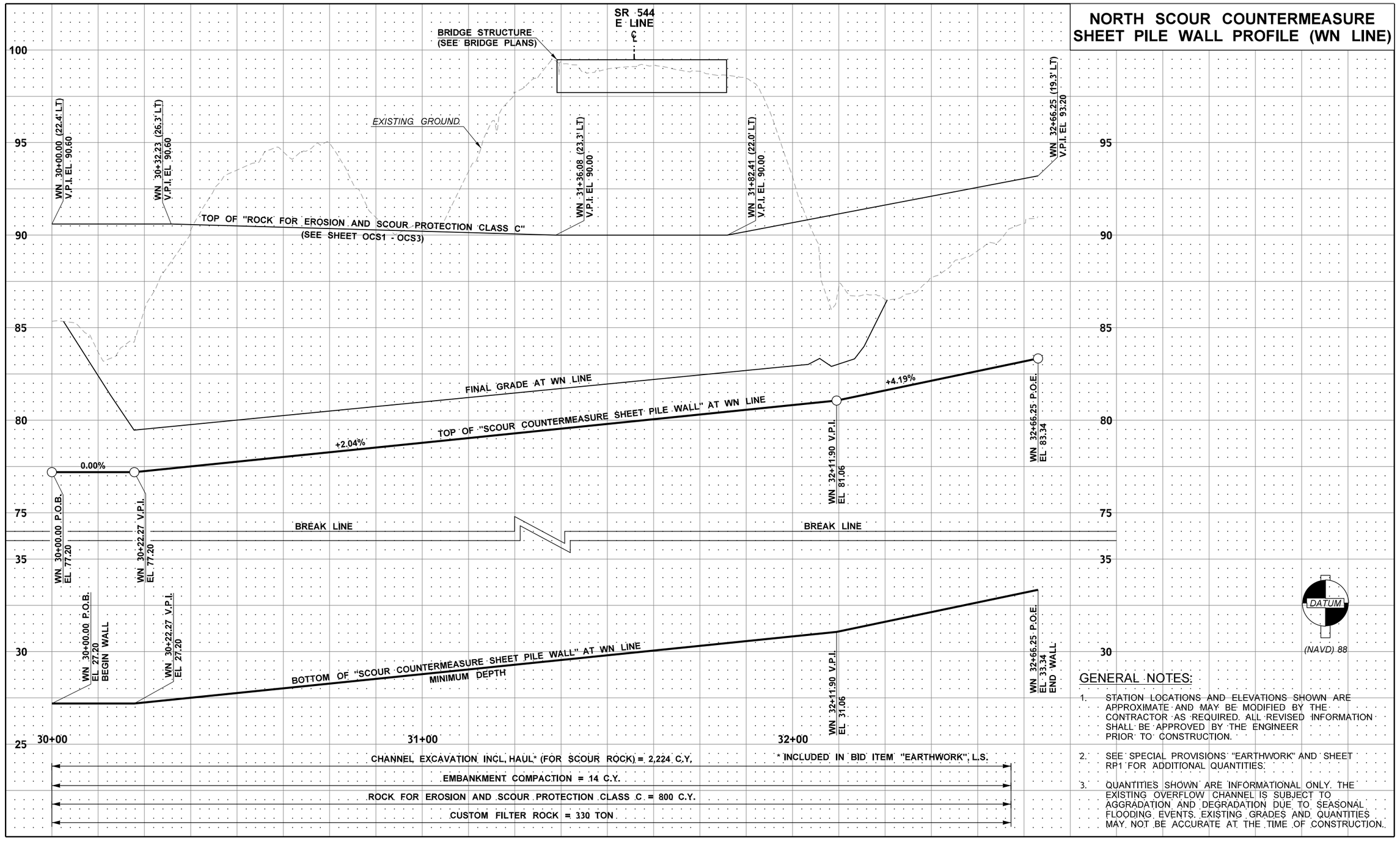
OVERFLOW CHANNEL WALL PROFILES

Plot 7

PLAN REF. NO. OCWP1

SHEET 37 OF 119 SHEETS

NORTH SCOUR COUNTERMEASURE SHEET PILE WALL PROFILE (WN LINE)



CHANNEL EXCAVATION INCL. HAUL* (FOR SCOUR ROCK) = 2,224 C.Y.

EMBANKMENT COMPACTION = 14 C.Y.

ROCK FOR EROSION AND SCOUR PROTECTION CLASS C = 800 C.Y.

CUSTOM FILTER ROCK = 330 TON

* INCLUDED IN BID ITEM "EARTHWORK", L.S.

GENERAL NOTES:

1. STATION LOCATIONS AND ELEVATIONS SHOWN ARE APPROXIMATE AND MAY BE MODIFIED BY THE CONTRACTOR AS REQUIRED. ALL REVISED INFORMATION SHALL BE APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION.
2. SEE SPECIAL PROVISIONS "EARTHWORK" AND SHEET RP1 FOR ADDITIONAL QUANTITIES.
3. QUANTITIES SHOWN ARE INFORMATIONAL ONLY. THE EXISTING OVERFLOW CHANNEL IS SUBJECT TO AGGRADATION AND DEGRADATION DUE TO SEASONAL FLOODING EVENTS. EXISTING GRADES AND QUANTITIES MAY NOT BE ACCURATE AT THE TIME OF CONSTRUCTION.

FILE NAME	T:\412334\XL6549 SR 544 Nooksack Overflow Repair_CAE\CAD\ContractPlans\XL6549_160_PS_OverflowChannel.dgn			
TIME	8:17:10 PM			
DATE	9/24/2026			
PLOTTED BY	hardoug			
DESIGNED BY	D. HARRIS			
ENTERED BY	D. HARRIS			
CHECKED BY	E. WINTER			
PROJ. ENGR.	S. BEIER			
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY

REGION NO.	STATE
10	WASH

JOB NUMBER 26A012

CONTRACT NO.

FED.AID PROJ.NO.

LOCATION NO.

SPENCER T. BEIER — STATE OF WASHINGTON — 142005 — REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1

DATE

P.E. STAMP BOX

DATE

P.E. STAMP BOX

Washington State Department of Transportation

SR 544
NOOKSACK RIVER OVERFLOW CULVERT ER PERMANENT REPAIR

OVERFLOW CHANNEL WALL PROFILES

Plot 8

PLAN REF. NO. OCWP2

SHEET 38 OF 119 SHEETS

LEGEND

XX	CONSTRUCTION CENTERLINE
	WSDOT RIGHT OF WAY
- - -	EXISTING DITCH
	EXISTING SIDEWALK
	EXISTING PAVED EDGE
	EXISTING GRAVEL EDGE
	EXISTING BRIDGE APPROACH SLAB
	EXISTING CULVERT
- W — — W — — W -	EXISTING WATER
- S — — S — — S -	EXISTING SANITARY SEWER
— OP — — OP — —	EXISTING ABOVE GROUND POWER
— — BP — — BP — —	EXISTING BURIED POWER
— — BF — — BF — —	EXISTING BURIED FIBER
— — W — — W — —	EXISTING BURIED WATER LINE
— — G — — G — —	EXISTING BURIED GAS LINE
S S S	EXISTING SANITARY SEWER LINE REMOVAL
W W W	EXISTING WATER LINE REMOVAL
W W	WATER LINE NEW
S S	SANITARY SEWER NEW
	PIPE CASING NEW
	BRIDGE STRUCTURE
	DIRECTION OF FLOW
FUEL	EXISTING FUEL TANK
	EXISTING UTILITY VAULT
	EXISTING SEWER PUMP STATION
	EXISTING LUMINAIRE
	EXISTING CATCH BASIN
	EXISTING UTILITY POLE
P	EXISTING POWER POLE
G	EXISTING GUY POLE
	EXISTING UTILITY VAULT
T	EXISTING TELEPHONE MANHOLE
	EXISTING GATE VALVE ASSEMBLY
	NEW GATE VALVE ASSEMBLY
	NEW PIPE BEND WITH THRUST BLOCK
#	PIPE SCHEDULE NUMBER

ABBREVIATIONS

DI	DUCTILE IRON
DIA.	PIPE DIAMETER
FL	FLANGE JOINT
G.V.	GATE VALVE ASSEMBLY
HDPE	HIGH-DENSITY POLYETHYLENE
I.E.	INVERT ELEVATION
PVC	POLYVINYL CHLORIDE
MJ	MECHANICAL JOINT

FILE NAME	T:\412334\XL6549 SR 544 Nooksack Overflow Repair_CAE\CAD\ContractPlans\XL6549_180_PS_UT1.dgn				REGION NO.	STATE	FED.AID PROJ.NO.
TIME	8:22:45 PM				10	WASH	
DATE	9/24/2026				JOB NUMBER		
PLOTTED BY	hardoug				26A012		
DESIGNED BY	R. BRAR				CONTRACT NO.		LOCATION NO.
ENTERED BY	R. BRAR						
CHECKED BY	E. WINTER						
PROJ. ENGR.	S. BEIER						
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY			

SPENCER T. BEIER — STATE OF WASHINGTON — 24000 — REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1 — DATE — P.E. STAMP BOX

DATE — P.E. STAMP BOX

Washington State Department of Transportation

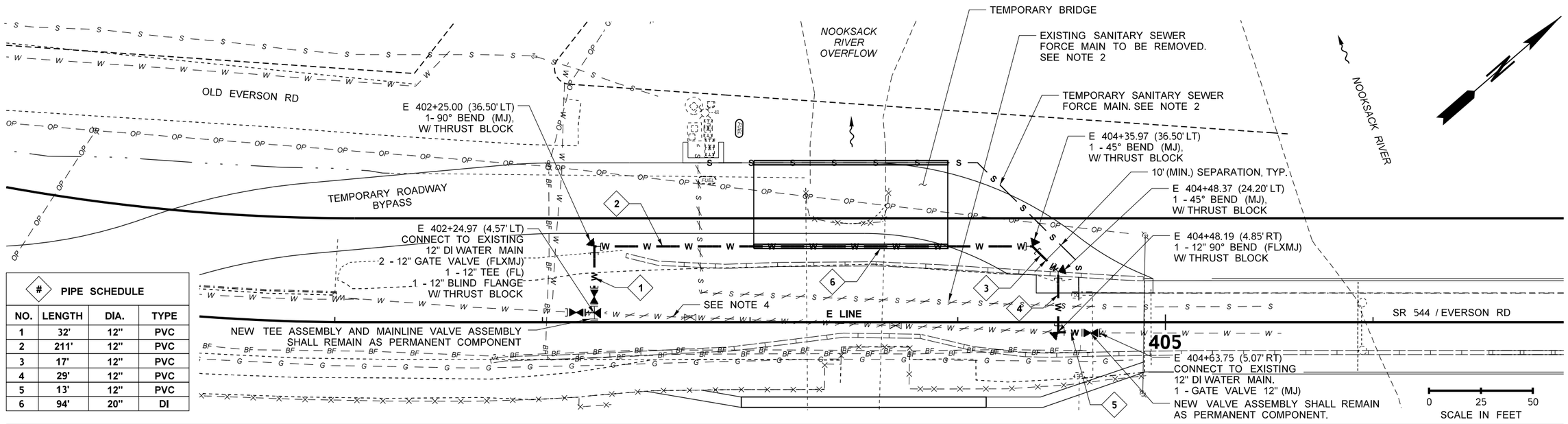
SR 544
NOOKSACK RIVER OVERFLOW CULVERT ER PERMANENT REPAIR

UTILITY LEGEND & ABBREVIATIONS

Plot 1

PLAN REF NO
UT1

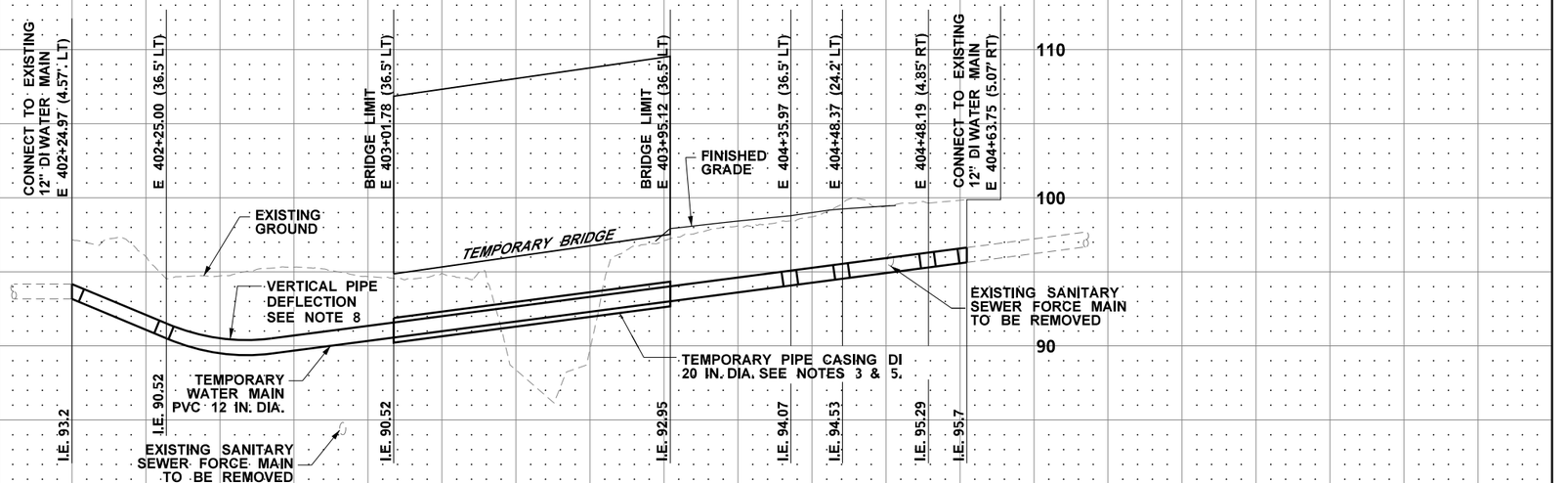
SHEET 39 OF 119 SHEETS



# PIPE SCHEDULE			
NO.	LENGTH	DIA.	TYPE
1	32'	12"	PVC
2	211'	12"	PVC
3	17'	12"	PVC
4	29'	12"	PVC
5	13'	12"	PVC
6	94'	20"	DI

GENERAL NOTES:

1. SEE SHEET UT1 FOR LEGEND & ABBREVIATIONS.
2. SEE SHEET UT3 FOR TEMPORARY FORCE MAIN PLAN & PROFILE.
3. SEE SHEET UT6 FOR PIPE CASING DETAIL
4. FOLLOWING THE ACTIVATION OF THE TEMPORARY WATER MAIN, THE CONTRACTOR SHALL REMOVE EXISTING WATER MAIN, VALVES AND OTHER COMPONENTS BETWEEN POINTS OF CONNECTIONS. ALL REMOVED PIPES AND MATERIALS SHALL BE DISPOSED OFF IN AN ENVIRONMENTALLY SAFE MANNER AND THE EXCAVATED AREA SHALL BE RESTORED TO IT'S ORIGINAL CONDITION.
5. THE CONTRACTOR SHALL ENSURE UTILITY ENCASEMENT IS PROPERLY SUPPORTED TO PROHIBIT EXCESSIVE SAGGING AT ANY LOCATION.
6. ALL FITTINGS (BENDS, TEES, CROSSES ETC) SHALL BE RESTRAINED USING MECHANICAL JOINTS AND/OR CONCRETE THRUST BLOCK PER WSDOT STD. PLAN B 90.40.
7. PIPE ZONE BEDDING AND BACKFILL SHALL CONFORM TO WSDOT STANDARD PLAN B-55.20. USE GRAVEL BACKFILL FOR PIPE ZONE BEDDING PER WSDOT STANDARD SPECIFICATION SECTION 9-03.12(3).
8. THE CONTACTOR SHALL FIELD ADJUST ALL BENDS AND DEFLECTIONS TO SUIT SITE CONDITIONS WITHIN ALLOWABLE PIPE LIMITS. REFER TO MANUFACTURER'S RECOMMENDATIONS.



DATUM
(NAVD) 88

THE LOCATIONS OF EXISTING UTILITIES SHOWN ON THE PLAN ARE APPROXIMATE. THE CONTRACTOR SHALL DETERMINE AND FIELD VERIFY LOCATION AND DEPTH OF EXISTING UTILTIES PRIOR TO CONSTRUCTION.

FILE NAME	T:\412334\XL6549 SR 544 Nooksack Overflow Repair_CAE\CAD\ContractPlans\XL6549_181_PS_UT2.dgn				REGION NO.	STATE	FED.AID PROJ.NO.
TIME	8:18:55 PM				10	WASH	
DATE	9/24/2026				JOB NUMBER		
PLOTTED BY	hardoug				26A012		
DESIGNED BY	R. BRAR				CONTRACT NO.		
ENTERED BY	R. BRAR					LOCATION NO.	
CHECKED BY	E. WINTER						
PROJ. ENGR.	S. BEIER						
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY			

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

SEE SHEET CT1 — DATE — P.E. STAMP BOX

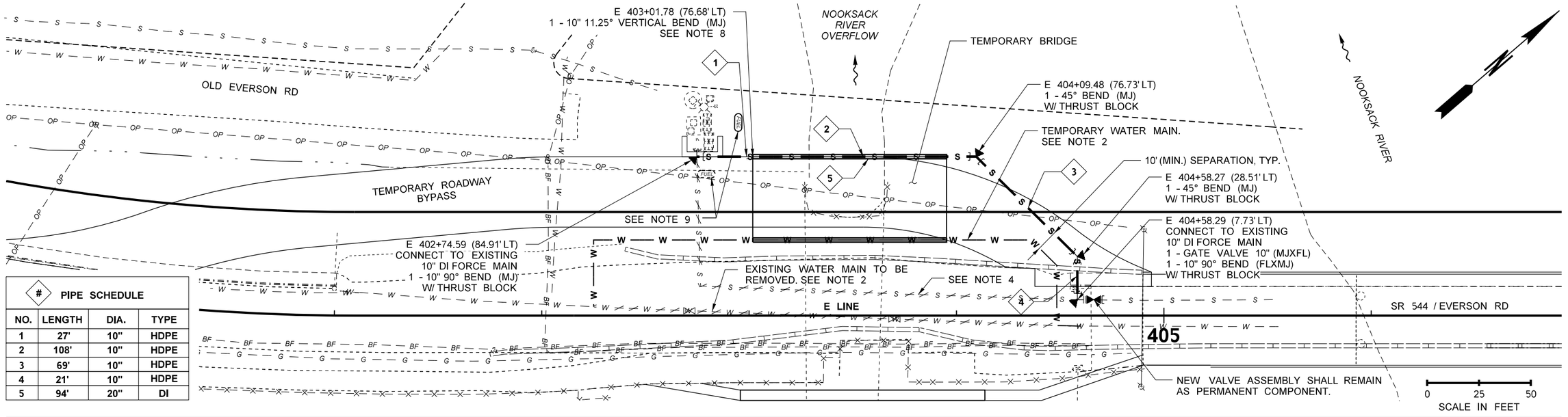
DATE — P.E. STAMP BOX

Washington State Department of Transportation

SR 544
NOOKSACK RIVER OVERFLOW CULVERT ER PERMANENT REPAIR

TEMPORARY WATER MAIN PLAN AND PROFILE

Plot 1
PLAN REF. NO. UT2
SHEET 40 OF 119 SHEETS



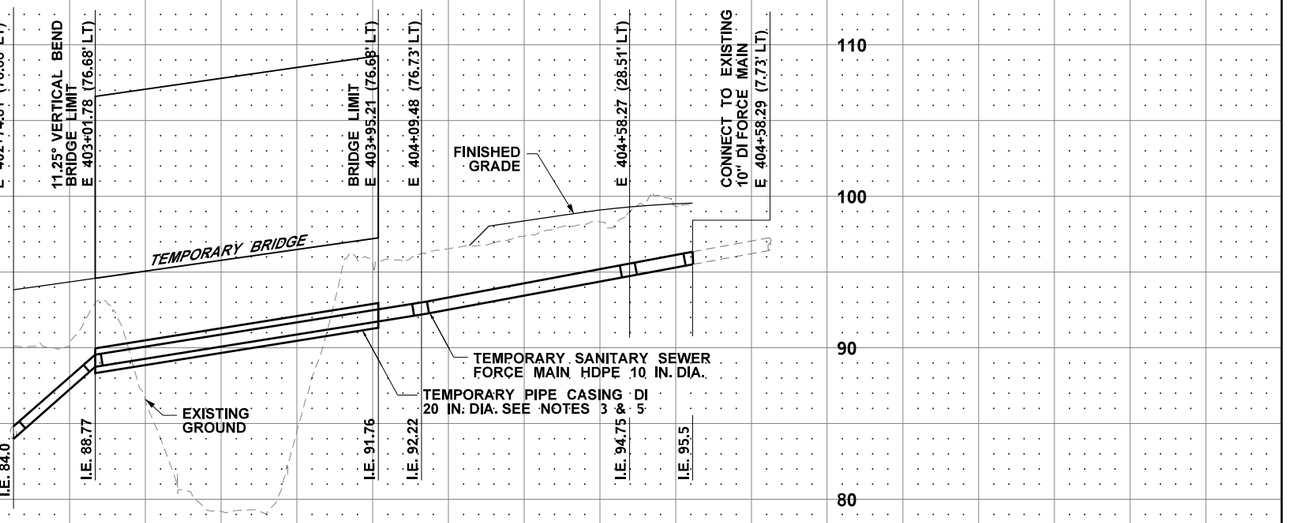
#	PIPE SCHEDULE		
NO.	LENGTH	DIA.	TYPE
1	27'	10"	HDPE
2	108'	10"	HDPE
3	69'	10"	HDPE
4	21'	10"	HDPE
5	94'	20"	DI

GENERAL NOTES:

1. SEE SHEET UT1 FOR LEGEND & ABBREVIATIONS.
2. SEE SHEET UT2 FOR TEMPORARY WATER MAIN PLAN & PROFILE.
3. SEE SHEET UT6 FOR PIPE CASING DETAIL.
4. FOLLOWING THE ACTIVATION OF THE TEMPORARY FORCE MAIN, THE CONTRACTOR SHALL REMOVE EXISTING FORCE MAIN COMPONENTS BETWEEN POINTS OF CONNECTION. ALL REMOVED PIPES AND MATERIALS SHALL BE DISPOSED OFF IN AN ENVIRONMENTALLY SAFE MANNER AND THE EXCAVATED AREA SHALL BE RESTORED TO IT'S ORIGINAL CONDITION..
5. THE CONTRACTOR SHALL ENSURE UTILITY ENCASEMENT IS PROPERLY SUPPORTED TO PROHIBIT EXCESSIVE SAGGING AT ANY LOCATION.
6. ALL FITTINGS (BENDS, TEES, CROSSES ETC) SHALL BE RESTRAINED USING MECHANICAL JOINTS AND/OR CONCRETE THRUST BLOCK PER WSDOT STD. PLAN B 90.40.
7. PIPE ZONE BEDDING AND BACKFILL SHALL CONFORM TO WSDOT STANDARD PLAN B-55.20. USE GRAVEL BACKFILL FOR PIPE ZONE BEDDING PER WSDOT STANDARD SPECIFICATION SECTION 9-03.12(3).
8. THE CONTACTOR SHALL FIELD ADJUST ALL BENDS AND DEFLECTIONS TO SUIT SITE CONDITIONS WITHIN ALLOWABLE PIPE LIMITS. REFER TO MANUFACTURER'S RECOMMENDATIONS.
9. THE CONTRACTOR SHALL TEMPORARILY RELOCATE AND REINTEGRATE FUEL TANK CONNECTED TO EXISTING PUMP STATION TO NEW LOCATION PER PLANS & SPECIAL PROVISIONS.

DATUM

(NAVD) 88



THE LOCATIONS OF EXISTING UTILITIES SHOWN ON THE PLAN ARE APPROXIMATE. THE CONTRACTOR SHALL DETERMINE AND FIELD VERIFY LOCATION AND DEPTH OF EXISTING UTILTIES PRIOR TO CONSTRUCTION.

FILE NAME	T:\412334\XL6549 SR 544 Nooksack Overflow Repair_CAE\CAD\ContractPlans\XL6549_182_PS_UT3.dgn				REGION NO.	STATE	FED.AID PROJ.NO.
TIME	8:23:32 PM				10	WASH	
DATE	9/24/2026				JOB NUMBER		
PLOTTED BY	hardoug				26A012		
DESIGNED BY	R. BRAR				CONTRACT NO.		LOCATION NO.
ENTERED BY	R. BRAR						
CHECKED BY	E. WINTER						
PROJ. ENGR.	S. BEIER						
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY			

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

SEE SHEET CT1

DATE

P.E. STAMP BOX

DATE

P.E. STAMP BOX

Washington State Department of Transportation

SR 544

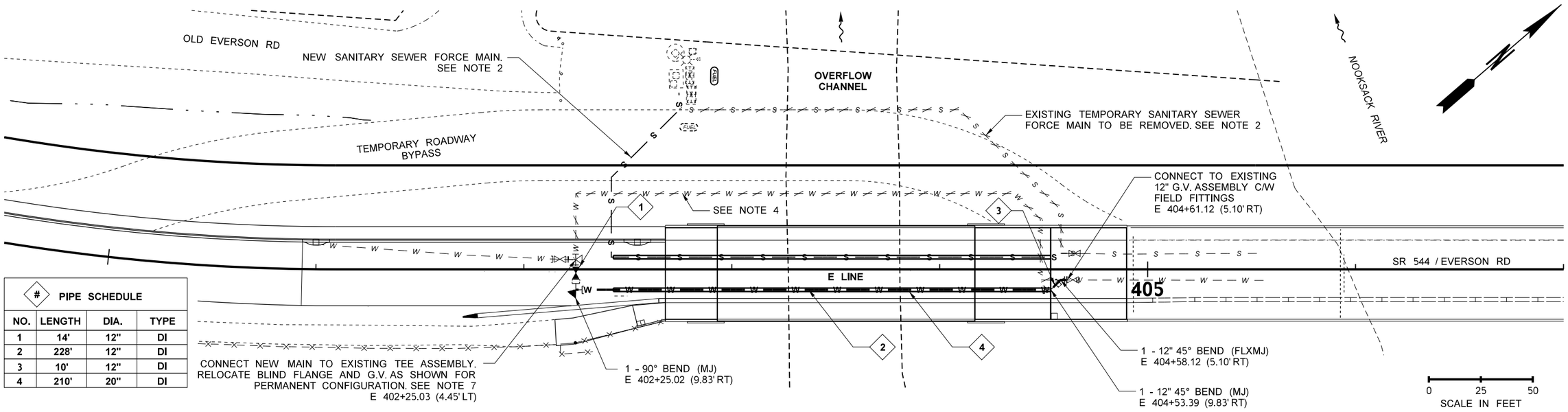
NOOKSACK RIVER OVERFLOW CULVERT ER PERMANENT REPAIR

TEMPORARY FORCE MAIN PLAN AND PROFILE

Plot 1

PLAN REF. NO. UT3

SHEET 41 OF 119 SHEETS

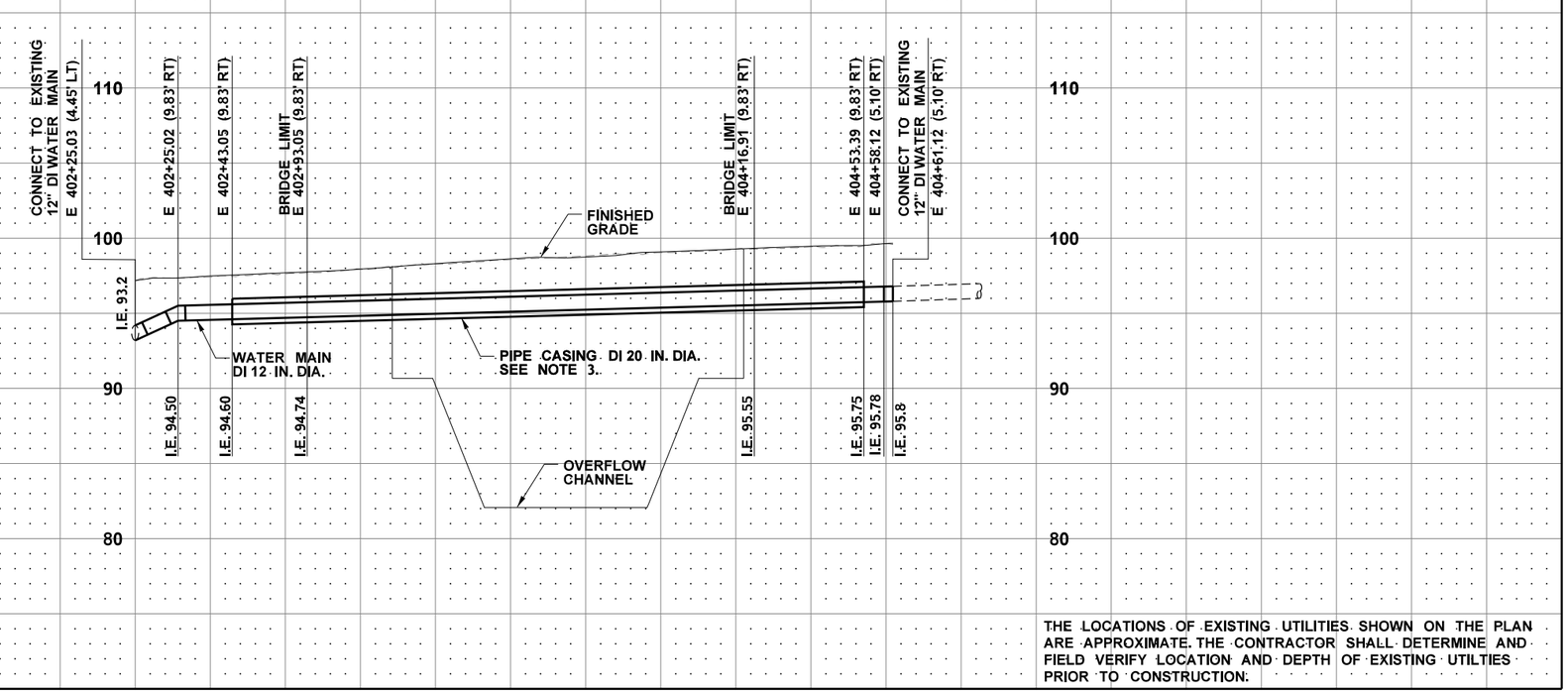


#	PIPE SCHEDULE		
NO.	LENGTH	DIA.	TYPE
1	14'	12"	DI
2	228'	12"	DI
3	10'	12"	DI
4	210'	20"	DI

GENERAL NOTES:

1. SEE SHEET UT1 FOR LEGEND & ABBREVIATIONS
2. SEE SHEET UT5 FOR FORCE MAIN PLAN & PROFILE.
3. SEE SHEET UT6 FOR PIPE CASING DETAIL
4. FOLLOWING THE ACTIVATION OF THE NEW WATER MAIN, THE CONTRACTOR SHALL REMOVE EXISTING TEMPORARY WATER MAIN, VALVES AND OTHER COMPONENTS BETWEEN POINTS OF CONNECTIONS. ALL REMOVED PIPES AND MATERIALS SHALL BE DISPOSED OFF IN AN ENVIRONMENTALLY SAFE MANNER AND THE EXCAVATED AREA SHALL BE RESTORED TO IT'S ORIGINAL CONDITION.
5. ALL FITTINGS (BENDS, TEES, CROSSES ETC) SHALL BE RESTRAINED USING MECHANICAL JOINTS AND/OR CONCRETE THRUST BLOCK PER WSDOT STD. PLAN B 90.40..
6. PIPE ZONE BEDDING AND BACKFILL SHALL CONFORM TO WSDOT STANDARD PLAN B-55.20. USE GRAVEL BACKFILL FOR PIPE ZONE BEDDING UNDER EXISTING GROUND SURFACE PER WSDOT STANDARD SPECIFICATION SECTION 9-03.12(3). USE CONTROLLED DENSITY FILL (CDF) FOR PIPE ZONE BEDDING & BACKFILL UNDER ROADWAY PAVEMENT.
6. THE CONTRACTOR SHALL FIELD ADJUST ALL BENDS AND DEFLECTIONS TO SUIT SITE CONDITIONS WITHIN ALLOWABLE PIPE LIMITS. REFER TO MANUFACTURER'S RECOMMENDATIONS.
7. CONTRACTOR TO PRESERVE AND PROTECT TEE ASSEMBLY AND FITTINGS INSTALLED FOR TEMPORARY BYPASS SYSTEM AND RELOCATE BLIND FLANGE AND VALVE ASSEMBLY AS TEMPORARY PIPING IS REMOVED.

DATUM
(NAVD) 88



THE LOCATIONS OF EXISTING UTILITIES SHOWN ON THE PLAN ARE APPROXIMATE. THE CONTRACTOR SHALL DETERMINE AND FIELD VERIFY LOCATION AND DEPTH OF EXISTING UTILTIES PRIOR TO CONSTRUCTION.

FILE NAME	T:\412334\XL6549 SR 544 Nooksack Overflow Repair_CAE\CAD\ContractPlans\XL6549_183_PS_UT4.dgn				REGION NO.	STATE	FED.AID PROJ.NO.
TIME	8:19:55 PM				10	WASH	
DATE	9/24/2026				JOB NUMBER		
PLOTTED BY	hardoug				26A012		
DESIGNED BY	R. BRAR				CONTRACT NO.		LOCATION NO.
ENTERED BY	R. BRAR						
CHECKED BY	E. WINTER						
PROJ. ENGR.	S. BEIER						
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY			

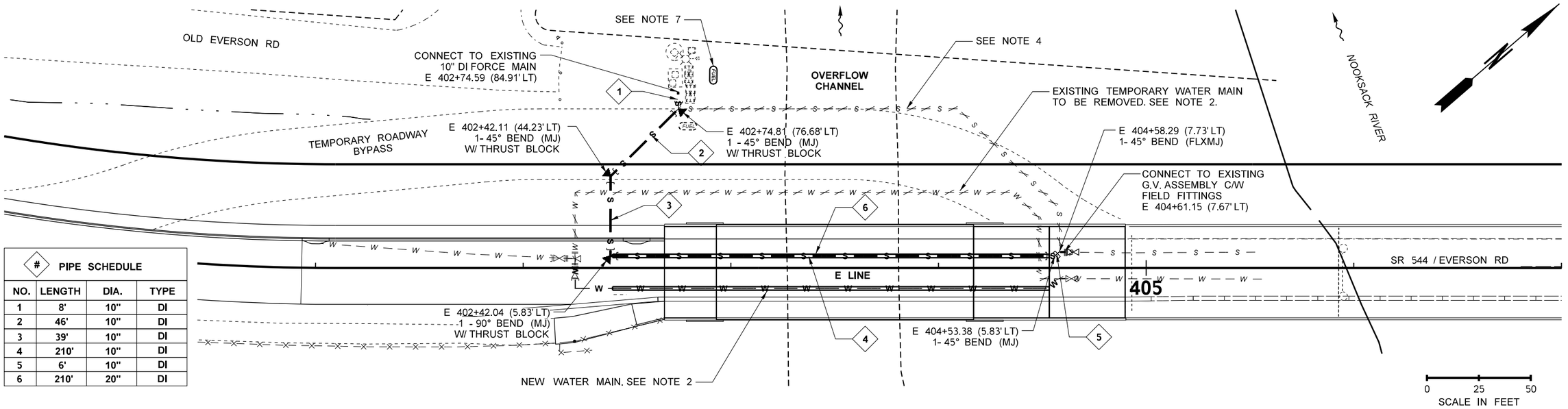
SPENCER T. BEIER — STATE OF WASHINGTON — 24006 — REGISTERED PROFESSIONAL ENGINEER
SEE SHEET CT1 — DATE — P.E. STAMP BOX

DATE — P.E. STAMP BOX

Washington State Department of Transportation

SR 544
NOOKSACK RIVER OVERFLOW CULVERT ER PERMANENT REPAIR
WATER MAIN PLAN AND PROFILE

Plot 1
PLAN REF. NO. UT4
SHEET 42 OF 119 SHEETS

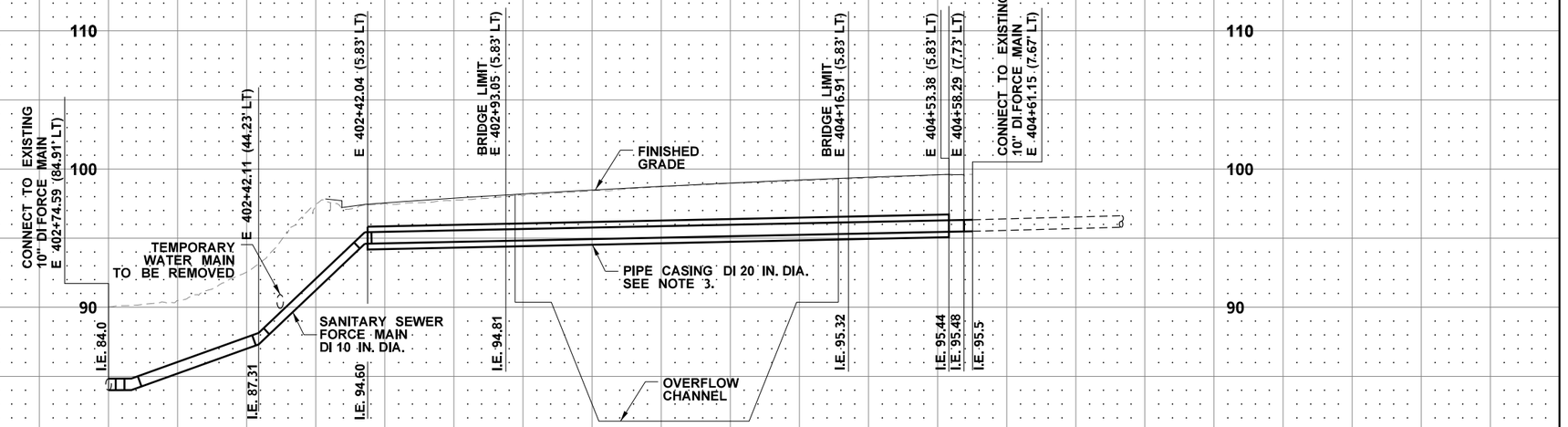


#	PIPE SCHEDULE		
NO.	LENGTH	DIA.	TYPE
1	8'	10"	DI
2	46'	10"	DI
3	39'	10"	DI
4	210'	10"	DI
5	6'	10"	DI
6	210'	20"	DI

GENERAL NOTES:

1. SEE SHEET UT1 FOR LEGEND & ABBREVIATIONS
2. SEE SHEET UT4 FOR WATER MAIN PLAN & PROFILE.
3. SEE SHEET UT6 FOR PIPE CASING DETAIL
4. FOLLOWING THE ACTIVATION OF THE FORCE MAIN, THE CONTRACTOR SHALL REMOVE TEMPORARY FORCE MAIN COMPONENTS BETWEEN POINTS OF CONNECTION. ALL REMOVED PIPES AND MATERIALS SHALL BE DISPOSED OFF IN AN ENVIRONMENTALLY SAFE MANNER AND THE EXCAVATED AREA SHALL BE RESTORED TO IT'S ORIGINAL CONDITION.
5. ALL FITTINGS (BENDS, TEES, CROSSES ETC) SHALL BE RESTRAINED USING MECHANICAL JOINTS AND/OR CONCRETE THRUST BLOCK PER WSDOT STD. PLAN B 90.40.
6. PIPE ZONE BEDDING AND BACKFILL SHALL CONFORM TO WSDOT STANDARD PLAN B-55.20. USE GRAVEL BACKFILL FOR PIPE ZONE BEDDING UNDER EXISTING GROUND SURFACE PER WSDOT STANDARD SPECIFICATION SECTION 9-03.12(3). USE CONTROLLED DENSITY FILL (CDF) FOR PIPE ZONE BEDDING & BACKFILL UNDER ROADWAY PAVEMENT.
6. THE CONTRACTOR SHALL FIELD ADJUST ALL BENDS AND DEFLECTIONS TO SUIT SITE CONDITIONS WITHIN ALLOWABLE PIPE LIMITS. REFER TO MANUFACTURER'S RECOMMENDATIONS.
7 THE CONTRACTOR SHALL RELOCATE AND REINTEGRATE FUEL TANK SERVICING EXISTING PUMP STATION TO IT'S ORIGINAL LOCATION PER PLANS & SPECIAL PROVISIONS.

DATUM
(NAVD) 88



THE LOCATIONS OF EXISTING UTILITIES SHOWN ON THE PLAN ARE APPROXIMATE. THE CONTRACTOR SHALL DETERMINE AND FIELD VERIFY LOCATION AND DEPTH OF EXISTING UTILTIES PRIOR TO CONSTRUCTION.

FILE NAME	T:\412334\XL6549 SR 544 Nooksack Overflow Repair_CAE\CAD\ContractPlans\XL6549_184_PS_UT5.dgn				REGION NO.	STATE	FED.AID PROJ.NO.	Plot 1
TIME	4:26:29 PM				10	WASH		PLAN REF. NO. UT5
DATE	9/24/2026				JOB NUMBER			
PLOTTED BY	hardoug				26A012			SHEET 43 OF 119 SHEETS
DESIGNED BY	R. BRAR				CONTRACT NO.		LOCATION NO.	
ENTERED BY	R. BRAR							
CHECKED BY	E. WINTER							
PROJ. ENGR.	S. BEIER							
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY				

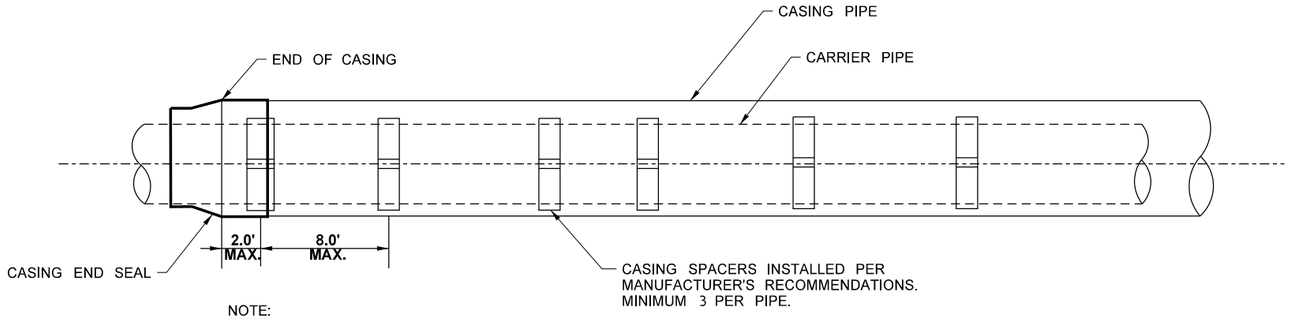
SPENCER T. BEIER — STATE OF WASHINGTON — 36005 — REGISTERED PROFESSIONAL ENGINEER
SEE SHEET CT1
DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

Washington State
Department of Transportation

SR 544
NOOKSACK RIVER OVERFLOW CULVERT
ER PERMANENT REPAIR

FORCE MAIN PLAN AND PROFILE

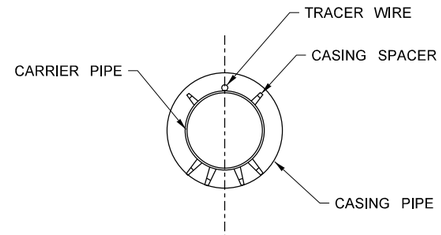


NOTE:

CASING END SEAL SHALL BE CUSTOM PULL-ON OR WRAP-AROUND TYPE

DI PIPE CASING

NOT TO SCALE



SECTION

GENERAL NOTES:

1. THE CASING INSTALLATION SHALL BE PERFORMED IN A MANNER THAT WILL NOT INTERFERE WITH, INTERRUPT, OR ENDANGER HIGHWAY TRAFFIC OR OTHER EXISTING UTILITIES. THE CONTRACTOR SHALL RESTORE ALL DAMAGED PROPERTY.
2. THE INSIDE OF THE DI CASING PIPE SHALL BE CLEANED AND DRIED PRIOR TO THE INSTALLATION OF THE CARRIER PIPE.
3. CASING SPACERS SHALL BE CASCADE WATERWORKS CCS SERIES STAINLESS STEEL CASING SPACERS, OR APPROVED EQUAL. SPACERS SHALL BE SIZED BY THE MANUFACTURER FOR THE SPECIFIED CARRIER PIPE AND 20-INCH DI CASING PIPE. RUNNERS SHALL BE ULTRA-HIGH MOLECULAR WEIGHT (UHMW) POLYETHYLENE OR MANUFACTURER'S STANDARD LOW-FRICTION POLYMER.
4. CASING ENDS SHALL BE SEALED WITH CASCADE CCES END SEALS OR APPROVED EQUAL. END SEALS SHALL CONSIST OF FLEXIBLE SYNTHETIC RUBBER SLEEVES SECURED TO BOTH THE CARRIER PIPE AND CASING PIPE WITH STAINLESS STEEL BAND CLAMPS.
5. ALL CARRIER PIPES WITHIN CASINGS SHALL BE POLY-ENCASED.
6. ALL CARRIER PIPES WITHIN THE CASINGS, AND FOR THE APPROPRIATE DISTANCE BEYOND ON EITHER SIDE, SHALL HAVE RESTRAINED JOINTS.
7. THE CARRIER PIPE SHALL NOT CONTACT THE CASING PIPE AT ANY LOCATION.

FILE NAME	T:\412334\XL6549 SR 544 Nooksack Overflow Repair_CAE\CAD\ContractPlans\XL6549_185_PS_UT6.dgn						
TIME	8:20:41 PM						
DATE	9/24/2026						
PLOTTED BY	hardoug						
DESIGNED BY	R. BRAR						
ENTERED BY	R. BRAR						
CHECKED BY	E. WINTER						
PROJ. ENGR.	S. BEIER						
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY			

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER		
26A012		
CONTRACT NO.		LOCATION NO.

SPENCER T. BEIER — STATE OF WASHINGTON — 14005 — REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1

DATE

P.E. STAMP BOX

DATE

P.E. STAMP BOX

Washington State Department of Transportation

SR 544
NOOKSACK RIVER OVERFLOW CULVERT ER PERMANENT REPAIR

UTILITY DETAIL - PIPE CASING

Plot 1

PLAN REF NO
UT6

SHEET 44 OF 119 SHEETS

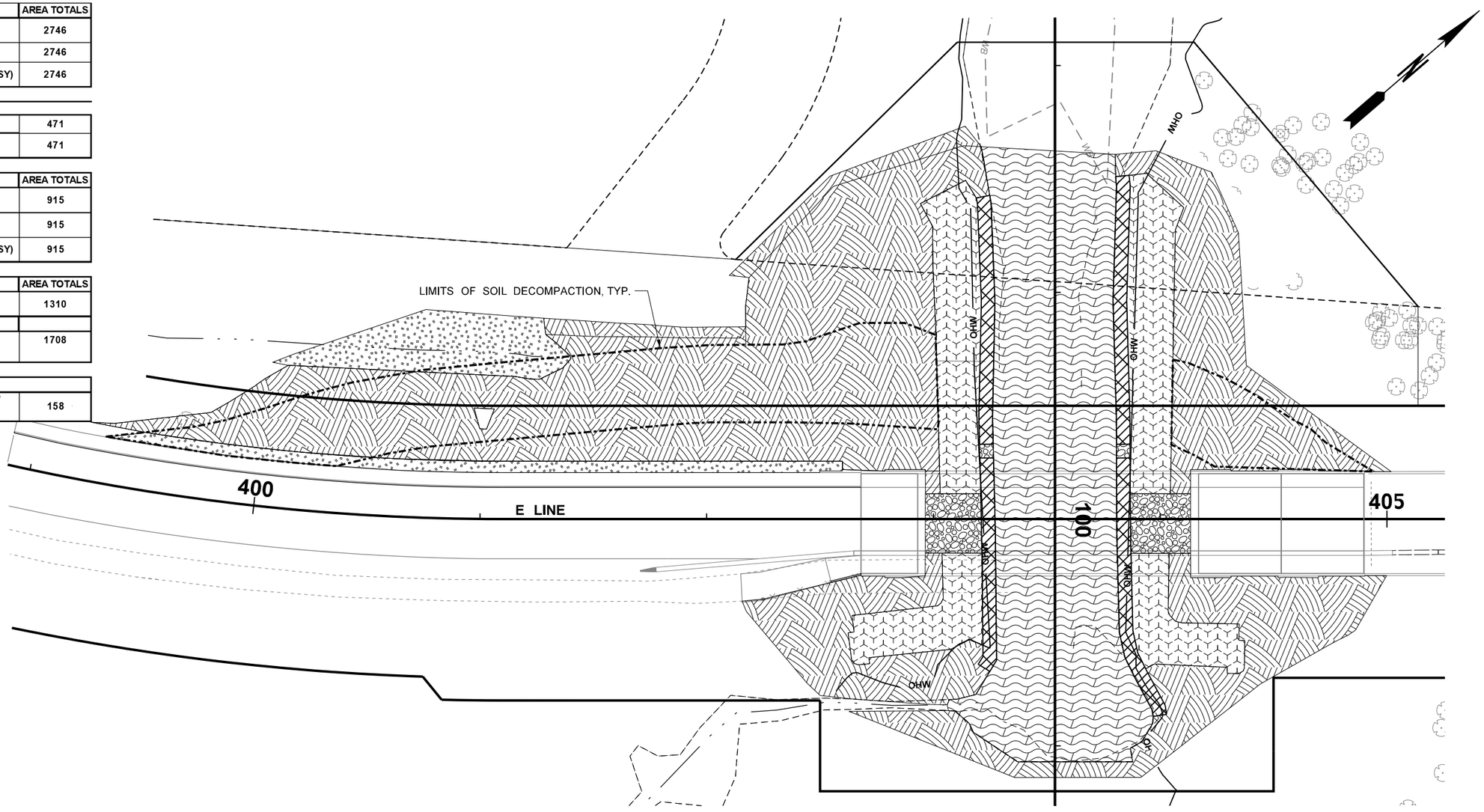
SOIL PREPARATION FOR PLANTING AREAS	AREA TOTALS
SOIL AMENDMENT - 3 IN DEPTH (SY)	2746
SOIL DECOMPACTION - SEE LD1	2746
BARK OR WOOD CHIP MULCH - 3 IN DEPTH (SY)	2746

SEEDING	
FINE COMPOST - 3 IN DEPTH (SY)	471
SOIL DECOMPACTION - SEE LD1	471

SCOUR COUNTERMEASURE SOIL PREPARATION	AREA TOTALS
TOPSOIL TYPE A - 24 IN DEPTH (SY)	915
EROSION CONTROL BLANKET - SY	915
BARK OR WOOD CHIP MULCH - 3 IN DEPTH (SY)	915

COIR WRAPPED SOIL LIFTS	AREA TOTALS
COIR WRAPPED SOIL LIFTS - LF	1310
COMPOST SEEDING	
COMPOST SEEDING - 2 IN DEPTH (SY) SEE SPECIAL PROVISION FOR SEED MIX	1708

SITE BORROW	
SITE BORROW - 24" DEPTH, SEE OVERFLOW CHANNEL PLANS (SY)	158



SOIL PREPARATION NOTES:

1. PRIOR TO AMENDING SOIL AND PLANTING, REMOVE ALL EQUIPMENT AND CONSTRUCTION ACCESS MATERIALS FROM THE SITE.

2. PREPARE SOIL ACCORDING TO SECTION 8-02.3 REQUIREMENTS.

3. WHERE TOPSOIL OVERLIES ROCK FOR EROSION AND SCOUR PROTECTION (RESP), CHOKE RESP WITH NATIVE MATERIAL OR SITE BORROW AS APPROVED BY THE ENGINEER TO PREVENT LOSS OF TOPSOIL INTO VOIDS IN RESP.

4. CONTRACTOR TO VERIFY ALL QUANTITIES.

0 25 50
SCALE IN FEET

LEGEND

400	CONSTRUCTION CENTERLINE
	HIGHWAY RIGHT OF WAY
	TEMPORARY EASEMENT
	EXISTING PAVED EDGE
	EXISTING GRAVEL EDGE
	EXISTING CHAIN LINK FENCE
	EXISTING PEDESTRIAN PATH
	EXISTING CONCRETE BARRIER
	EXISTING DITCH LINE
	EXISTING TREE TO REMAIN
	EDGE OF BRIDGE STRUCTURE
	SIDEWALK
	BARRIER
	EDGE OF PAVEMENT
OHW	ORDINARY HIGH WATER MARK
	CHAIN LINK FENCE

FILE NAME	T:\412006\XL6549 Nooksack Overflow ER Permanent Repair\CAD\ContractPlans\XL6549_PS_LS.dgn				REGION NO.	STATE	FED.AID PROJ.NO.
TIME	1:06:20 PM				10	WASH	
DATE	9/24/2026				JOB NUMBER		
PLOTTED BY	oheajac				26A012		
DESIGNED BY	J. O'HEA				CONTRACT NO.		LOCATION NO.
ENTERED BY	J. O'HEA						
CHECKED BY	L. JUNGBLUTH						
PROJ. ENGR.	S. BEIER						
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY			

STATE OF WASHINGTON — LINDSEY A. JUNGBLUTH — 21010 — LICENSED LANDSCAPE ARCHITECT — NO. 1483 EXP. 11/05/2027
DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

Washington State Department of Transportation

SR 544
NOOKSACK RIVER OVERFLOW CULVERT
ER PERMANENT REPAIR

SOIL PREPARATION PLAN

Plot 1
PLAN REF NO
SPP1
SHEET 45 OF 119 SHEETS

UPLAND ROADSIDE RESTORATION		AREA TOTALS	
MIX A 4' O.C.		A1	A2
DOUGLAS-FIR	12 FT. O.C.	61	11
GRAND FIR	12 FT. O.C.	61	11
BEAKED HAZELNUT	12 FT. O.C.	61	11
MOCK ORANGE		273	48
OCEANSPRAY		152	26
SNOWBERRY		304	53
CREEPING OREGON-GRAPE		304	53
COASTAL STRAWBERRY		152	26
KINNIKINNICK		456	79

UPLAND RIPARIAN RESTORATION		AREA TOTALS		
MIX B 4' O.C.		B1	B2	B3
SITKA SPRUCE	12 FT. O.C.	3	17	16
OREGON ASH	12 FT. O.C.	3	17	16
CASCARA	12 FT. O.C.	3	17	16
BALDHIP ROSE		12	77	71
CLUSTERED ROSE		10	64	59
BLACK TWINBERRY		13	86	79
SLOUGH SEDGE		29	64	59
SNOWBERRY		13	86	79

SCOUR COUNTERMEASURE RESTORATION	AREA TOTALS			
MIX C 4' O.C.	C1	C2	C3	C4
DOUGLAS SPIREA	24	23	12	12
SALMONBERRY	36	34	18	18
BLACK TWINBERRY	49	46	25	24
SNOWBERRY	36	34	18	18
THIMBLEBERRY	24	23	12	12
PACIFIC NINEBARK LIVE STAKE	36	34	18	18
RED-OSIER DOGWOOD LIVE STAKE	36	34	18	18

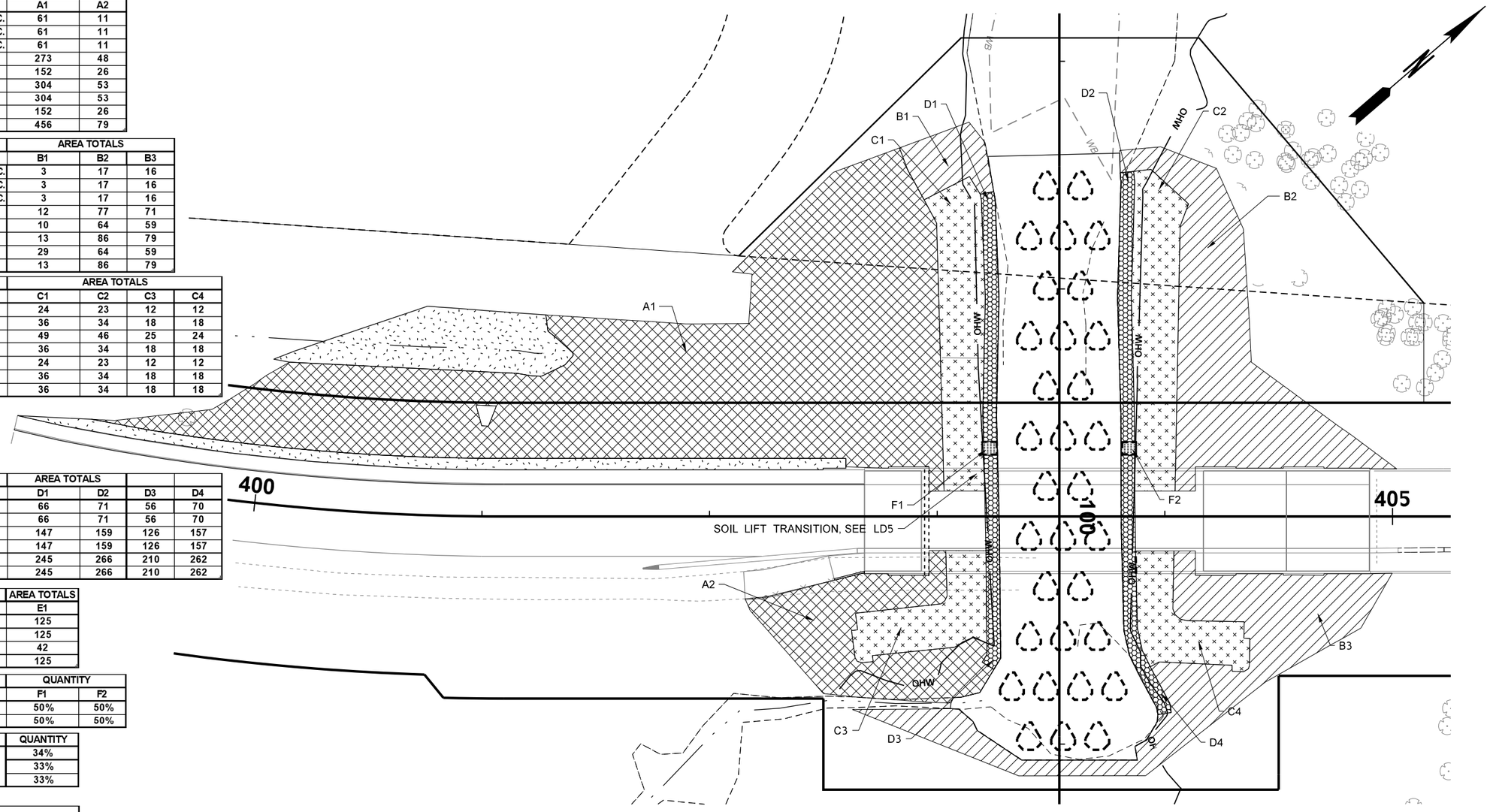
SOIL LIFT PLANTING	AREA TOTALS			
MIX D SEE LD3	D1	D2	D3	D4
COMMON RUSH	66	71	56	70
SLOUGH SEDGE	66	71	56	70
SITKA WILLOW LIVE STAKE	147	159	126	157
RED-OSIER DOGWOOD LIVE STAKE	147	159	126	157
PACIFIC NINEBARK LIVE STAKE	245	266	210	262
BLACK TWINBERRY LIVE STAKE	245	266	210	262

EMERGENT PLANTING IN CHANNEL BED	AREA TOTALS
MIX E 18" O.C.	E1
SLOUGH SEDGE	125
COMMON RUSH	125
HARDSTEM BULRUSH	42
SMALL-FRUITED BULRUSH	125

SOIL LIFT TRANSITION	QUANTITY	
BRUSH MATTRESS - SEE LD5	F1	F2
SITKA WILLOW LIVE CUTTING	50%	50%
RED-OSIER DOGWOOD LIVE CUTTING	50%	50%

LIVE FASCINE - 36 L.F. TOTAL	QUANTITY
SITKA WILLOW	34%
SALMONBERRY	33%
RED-OSIER DOGWOOD	33%

SEEDING, FERTILIZING, AND MULCHING	
NATIVE POLLINATOR SEED MIX (SY)	471



PLANTING NOTES:

1. FOR PLANT MATERIAL SETBACK CHART AND PLANT MATERIAL LIST, SEE LD5.
2. FOR PLANTING AND SOIL PREPARATION DETAILS SEE LD1-LD3.
3. THE CONTRACTOR SHALL NOT DISTURB EXISTING VEGETATION BEYOND WHAT IS SHOWN IN THE PLANS.
4. KINNIKINNICK IN MIX A AND SLOUGH SEDGE IN MIX B SHALL BE PLANTED IN CLUSTERS, SEE DETAIL ON LD2.

0 25 50
SCALE IN FEET

LEGEND

400 CONSTRUCTION CENTERLINE	EXISTING TREE TO REMAIN
HIGHWAY RIGHT OF WAY	EDGE OF BRIDGE STRUCTURE
TEMPORARY EASEMENT	SIDEWALK
EXISTING PAVED EDGE	BARRIER
EXISTING GRAVEL EDGE	EDGE OF PAVEMENT
EXISTING CHAIN LINK FENCE	OHW ORDINARY HIGH WATER MARK
EXISTING PEDESTRIAN PATH	CHAIN LINK FENCE
EXISTING CONCRETE BARRIER	
EXISTING DITCH LINE	

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DATE	9/24/2026				JOB NUMBER		
PLOTTED BY	oheajac				26A012		
DESIGNED BY	J. O'HEA				CONTRACT NO.		LOCATION NO.
ENTERED BY	J. O'HEA						
CHECKED BY	L. JUNGBLUTH						
PROJ. ENGR.	S. BEIER						
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY			

STATE OF WASHINGTON · LINDSEY A. JUNGBLUTH · No. 1463 EXP. 11/06/2026 · LICENSED LANDSCAPE ARCHITECT
DATE
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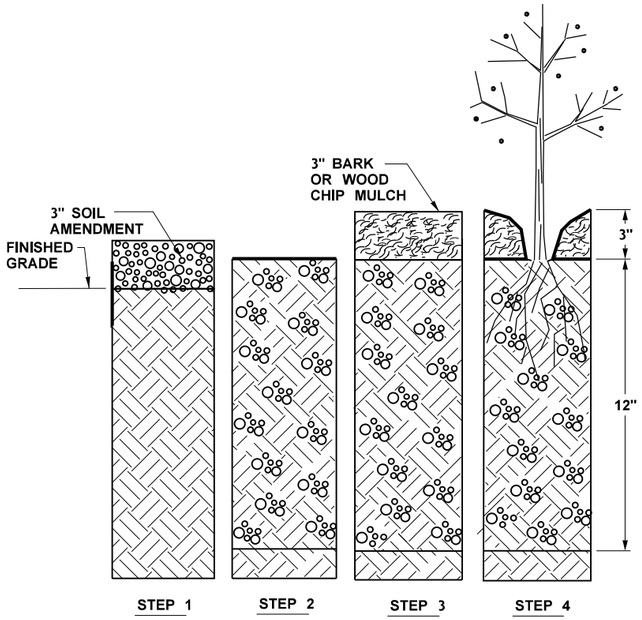
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SR 544
NOOKSACK RIVER OVERFLOW CULVERT ER PERMANENT REPAIR

LANDSCAPE PLANTING PLAN

Plot 2
PLAN REF NO LS1
SHEET 46 OF 119 SHEETS



PLANTING AREA PREPARATION
(SEE SPECIAL PROVISIONS)

STEP 1

PLACE 3" SOIL AMENDMENT

STEP 2

INCORPORATE SOIL AMENDMENT TO 12" DEPTH ACCORDING TO THE SPECIAL PROVISIONS

STEP 3

INSTALL BARK OR WOOD CHIP MULCH 3" DEEP (SEE PLANTING DETAIL IN STANDARD PLANS)

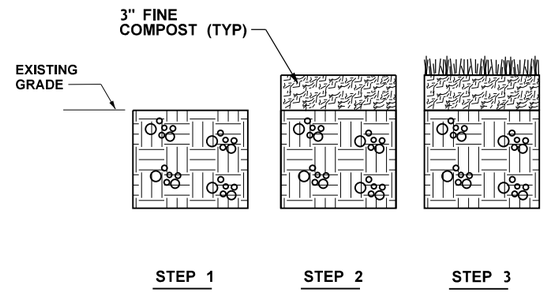
STEP 4

INSTALL PLANT (SEE PLANTING DETAIL IN STANDARD PLANS)

PLANTING AREA SOIL PREPARATION - SEQUENCE OF WORK

SECTION VIEW

NOT TO SCALE



PLANTING AREA PREPARATION
(PER STANDARD SPECIFICATION 8-02.3(5)A)

STEP 1

DECOMPACT TO 18" DEPTH PER SPECIAL PROVISION.

STEP 2

PLACE 3" FINE COMPOST ACCORDING TO THE PLANS.

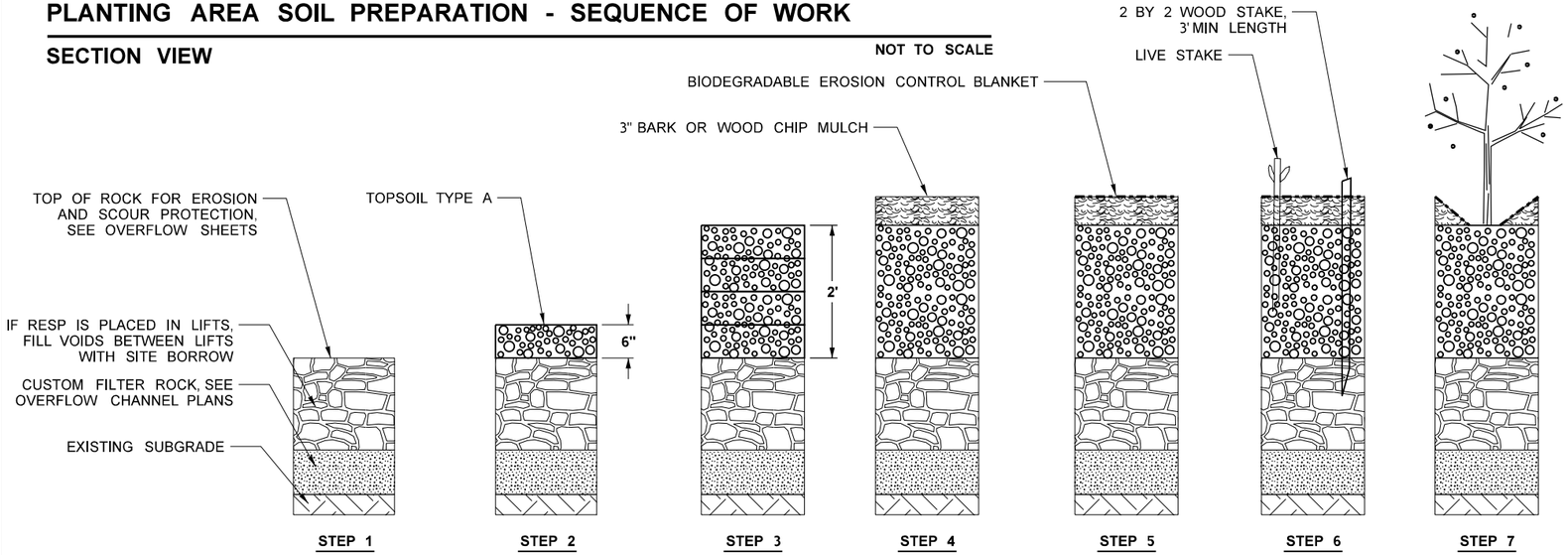
STEP 3

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

SEEDING, FERTILIZING, AND MULCHING SOIL PREPARATION - SEQUENCE OF WORK

SECTION VIEW

NOT TO SCALE



STEP 1

ESTABLISH TOP OF SCOUR COUNTERMEASURE ROCK PER OVERFLOW CHANNEL SHEETS AND CHOKE WITH NATIVE MATERIAL OR SITE BORROW, AS APPROVED BY ENGINEER, TO PREVENT LOSS OF TOPSOIL INTO RESP VOIDS

STEP 2

PLACE 6" LIFT TOPSOIL TYPE A OVER SCOUR COUNTERMEASURE ROCK

STEP 3

INSTALL 6" LIFTS OF TOPSOIL TO 24" DEPTH

STEP 4

INSTALL 3" BARK OR WOOD CHIP MULCH

STEP 5

INSTALL BIODEGRADABLE EROSION CONTROL BLANKET PER STANDARD PLAN I.60-10.01

STEP 6

INSTALL LIVE STAKES ACCORDING TO STANDARD PLAN H-10.15-01 AND PLANT MATERIAL CHART ON LS1. INSTALL 3' WOODEN STAKES TO SCOUR COUNTERMEASURE ROCK

STEP 7

MAKE MINIMUM CUT NECESSARY TO INSTALL PLANT THROUGH FABRIC AND INSTALL PER STANDARD PLANS. STAPLE CUT SEAMS TOGETHER TO SECURE BLANKET AND FEATHER BARK MULCH AWAY FROM PLANT

SCOUR COUNTERMEASURE PLANTING AREA SOIL PREPARATION - SEQUENCE OF WORK

SECTION VIEW

NOT TO SCALE

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DESIGNED BY	J. O'HEA				CONTRACT NO.		LOCATION NO.
ENTERED BY	J. O'HEA						
CHECKED BY	L. JUNGBLUTH						
PROJ. ENGR.	S. BEIER						
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY			

STATE OF WASHINGTON · LINDSEY A. JUNGBLUTH · 21010 · LICENSED LANDSCAPE ARCHITECT · No. 1483 EXP. 11/09/2027

DATE

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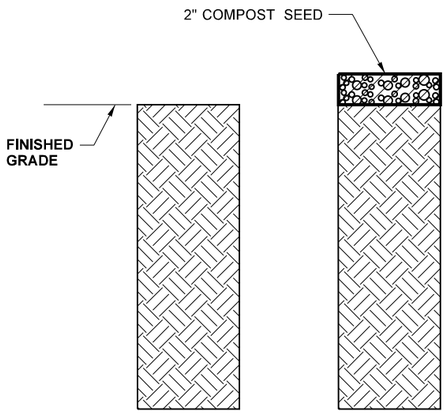
SR 544
NOOKSACK RIVER OVERFLOW CULVERT
ER PERMANENT REPAIR

LANDSCAPE DETAILS

Plot 3

PLAN REF NO
LD1

SHEET
47
OF
119
SHEETS



SEEDING AREA PREPARATION
(PER STANDARD SPECIFICATION 8-02.3(5)A)

STEP 1

PREPARE FINISHED GRADE SURFACE PER STANDARD SPECIFICATION 8-02.3(5)A

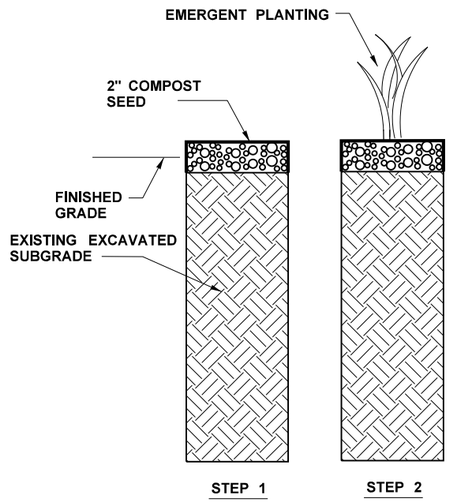
STEP 2

INSTALL 2" COMPOST SEEDING ACCORDING TO THE PLANS AND SPECIAL PROVISIONS

COMPOST SEEDING AREA SOIL PREPARATION - SEQUENCE OF WORK

SECTION VIEW

NOT TO SCALE



PLANTING AREA PREPARATION
(PER STANDARD SPECIFICATION 8-02.3(5))

STEP 1

PLACE 2" COMPOST SEEDING

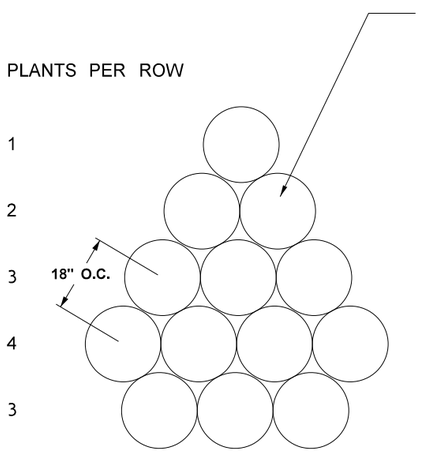
STEP 2

INSTALL EMERGENT PLANT PER STANDARD PLAN H-10.10-01

EMERGENT PLANTING IN CHANNEL BED - SEQUENCE OF WORK

SECTION VIEW

NOT TO SCALE



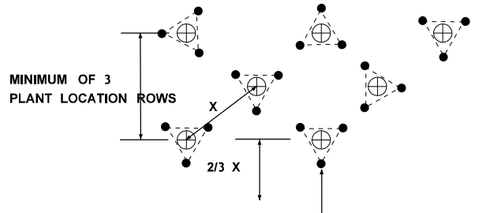
NOTES

1. LAY OUT EMERGENT PLANTING CLUSTERS WITH APPROXIMATELY 5' FROM CLOSEST SIDE TO SIDE IN ROWS. CLUSTER ROWS ARE SPACED APPROXIMATELY 10' APART.
2. SEE LS1 FOR PLANT SPECIES. INSTALL PER EMERGENT PLANTING DETAIL ON THIS SHEET.
3. PLANT SPECIES IN GROUPS OF 3-4 PLANTS. LAYOUT TO BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.

EMERGENT PLANTING IN CHANNEL BED - TYPICAL LAYOUT

PLAN VIEW

NOT TO SCALE



NOTE

1. CLUSTER LAYOUT TO BE USED FOR KINNIKINNICK IN MIX A AND SLOUGH SEDGE IN MIX B. SEE LS1 FOR MIX A AND MIX B PLANTING AREAS.

KINNIKINNICK AND SLOUGH SEDGE CLUSTER LAYOUT

NOT TO SCALE

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DESIGNED BY	J. O'HEA				CONTRACT NO.		LOCATION NO.
ENTERED BY	J. O'HEA						
CHECKED BY	L. JUNGBLUTH						
PROJ. ENGR.	S. BEIER						
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY			

STATE OF WASHINGTON LINDSEY A. JUNGBLUTH LICENSED LANDSCAPE ARCHITECT NO. 1483 EXP. 11/05/2027

DATE

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NOOKSACK RIVER OVERFLOW CULVERT ER PERMANENT REPAIR

LANDSCAPE DETAILS

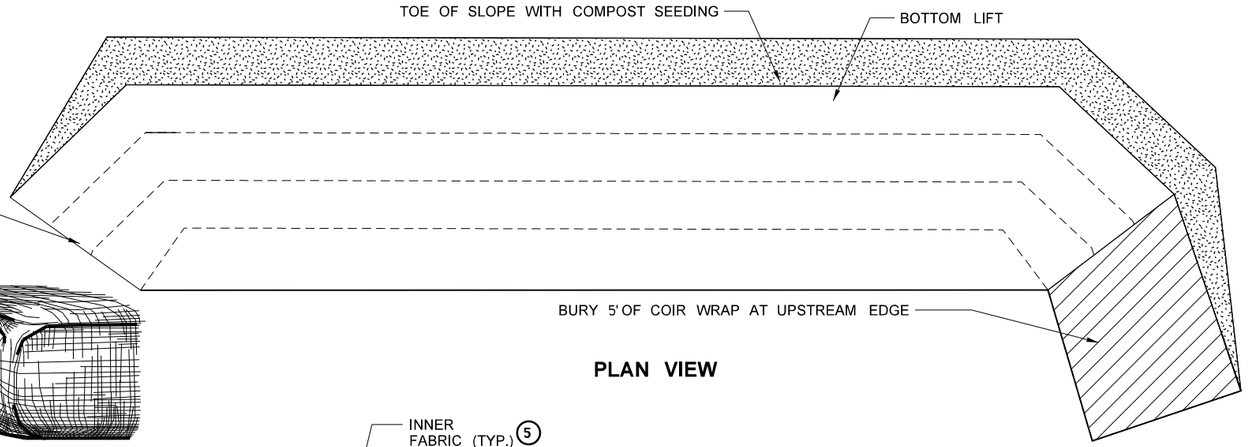
Plot 4

PLAN REF NO
LD2

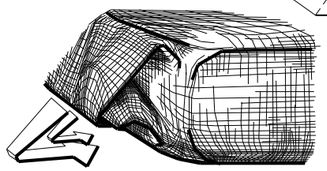
SHEET
48
OF
119
SHEETS

SOIL LIFT BANK PROTECTION ITEMS AND NOTES:

1. THE TOP SURFACE OF THE STREAMBED COBBLE AND SEDIMENT MIXTURE SHALL BE FLAT (NOT LEVEL) PRIOR TO CONSTRUCTION OF THE LIFT. SEE SPECIAL PROVISION FOR SOIL LIFTS AND SHEET LD4.
2. PLACE TWO SAND BAGS AT THE FRONT FACE OF THE LIFT FOR SOIL LIFT FORMATION. SAND BAGS AND TIES SHALL BE MADE OF BIODEGRADABLE MATERIALS.
3. HAND COMPACT TOPSOIL TYPE A AND COMMON BORROW TO 1' FOOT DEPTH.
4. DRIVE 2 X 4 WOOD STAKES INTO THE BACK END OF THE LIFT. BURY 2/3 OF THE WOOD STAKE WITHIN THE BOTTOM LIFT. BOTH THE TOP AND BOTTOM LAYERS OF WRAPPED FABRIC SHALL BE STAKED.
5. EMBED INNER FABRIC A MINIMUM OF 5' FROM SLOPE FACE.
6. EMBED OUTER FABRIC A MINIMUM OF 5' FROM SLOPE FACE.
7. THE SLOPE OF THE SOIL LIFT MAY VARY TO MEET THE EXISTING OR FINISHED GRADE.
8. SEE SHEET LS1 FOR SOIL LIFT PLANT MATERIAL. INSTALL 2 PLANTS PER LINEAR FOOT OR 3 LIVE STAKES PER LINEAR FOOT. LIVE STAKES SHALL BE 4 INCHES ON CENTER.

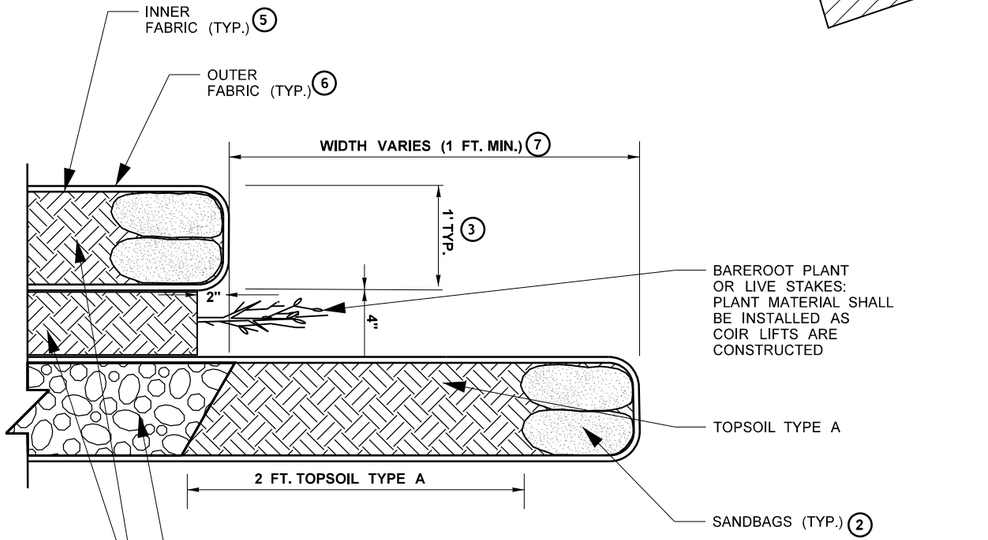


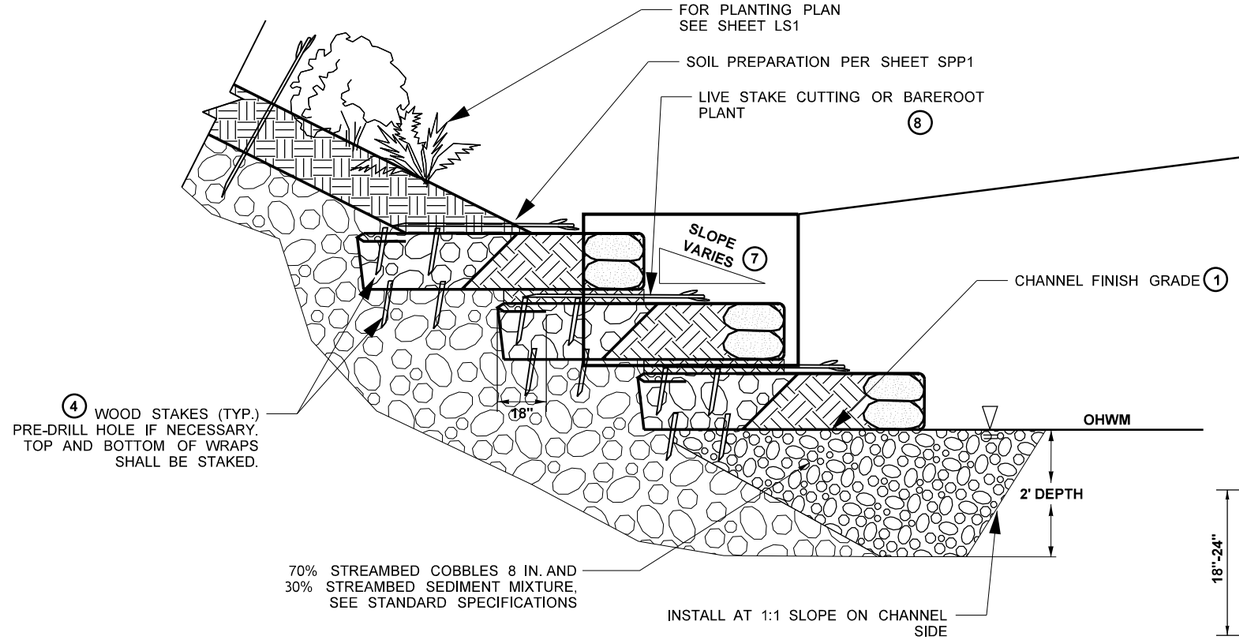
PLAN VIEW



1. FOLD TOP FLAP OVER BOTTOM FLAP AND TUCK UNDER SOIL LIFT.
2. ALL ENDS OF SOIL LIFT ROWS SHALL BE TUCKED AND WRAPPED.

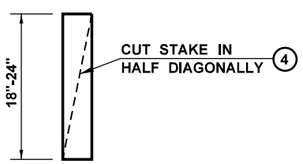
SOIL LIFT END TRANSITON DETAIL (TYP.)
NOT TO SCALE



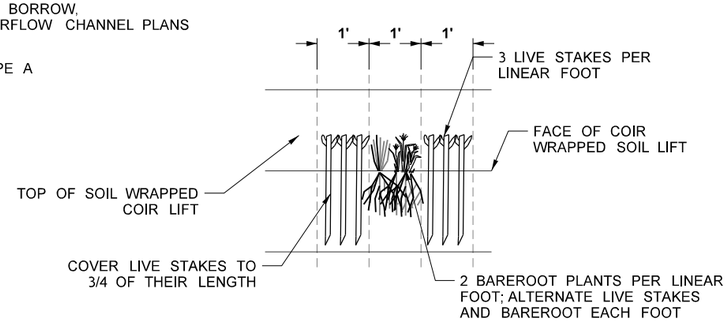


COIR WRAPPED SOIL LIFTS SECTION

SECTION VIEW



2 X 4 STAKE
NOT TO SCALE



TYPICAL PLANT LAYOUT PLAN VIEW
NOT TO SCALE

NOT TO SCALE

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PLOTTED BY	oheajac						
DESIGNED BY	J. O'HEA						
ENTERED BY	J. O'HEA						
CHECKED BY	L. JUNGBLUTH						
PROJ. ENGR.	S. BEIER						
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY			

STATE OF WASHINGTON LINDSEY A. JUNGBLUTH NO. 1483 EXP. 11/09/2027 LICENSED LANDSCAPE ARCHITECT

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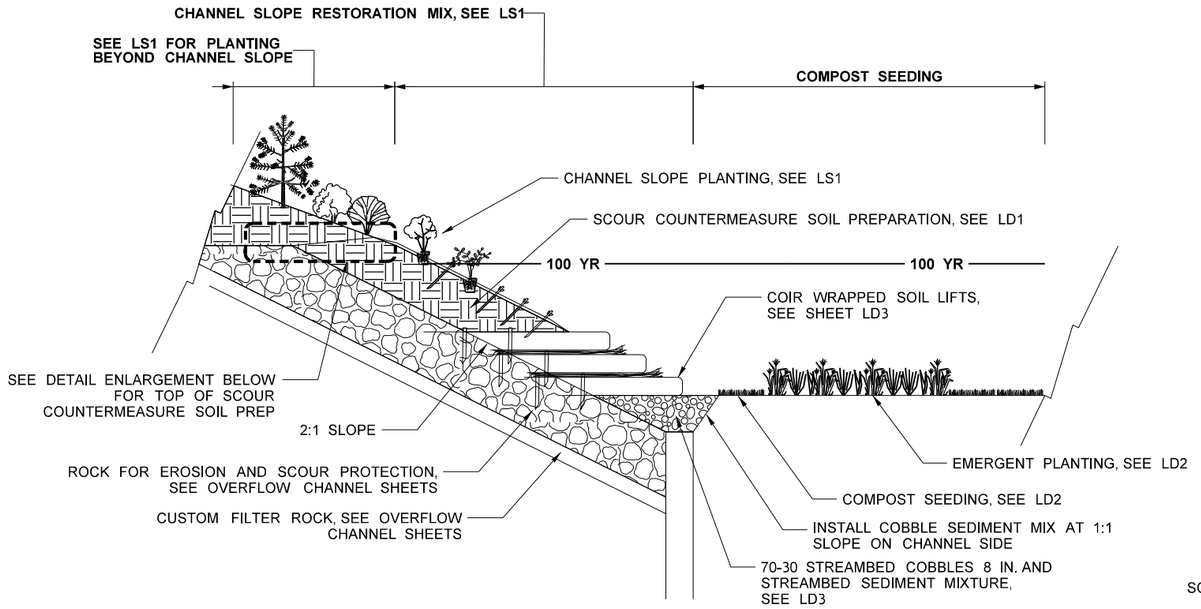
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SR 544
NOOKSACK RIVER OVERFLOW CULVERT ER PERMANENT REPAIR

LANDSCAPE DETAILS

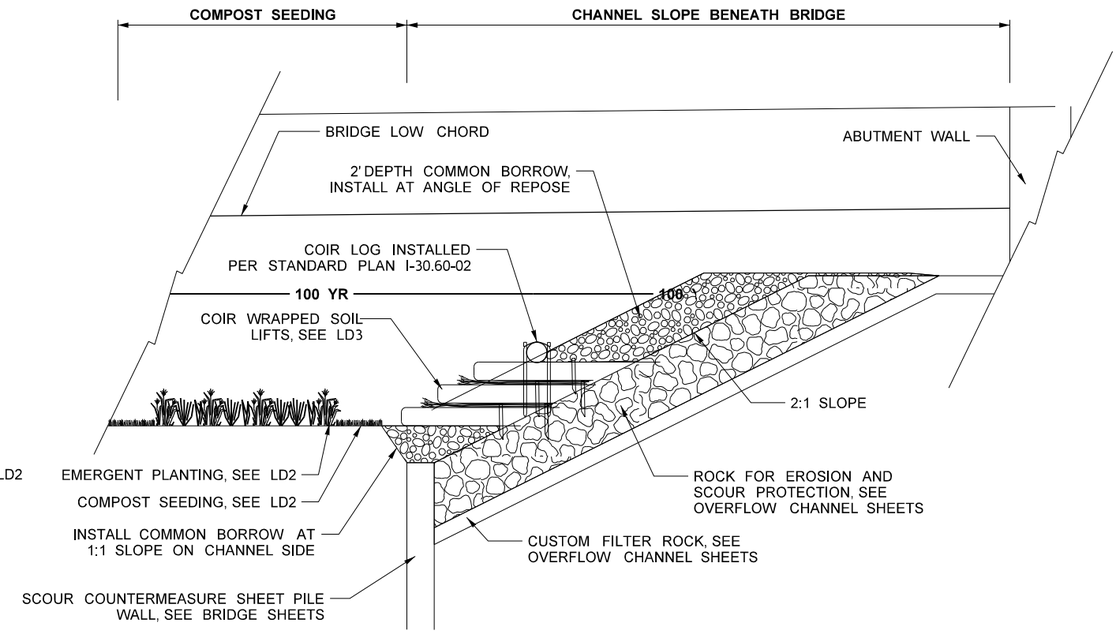
Plot 5
PLAN REF NO LD3
SHEET 49 OF 119 SHEETS



TYPICAL CHANNEL PLANTING CROSS SECTION

SECTION VIEW

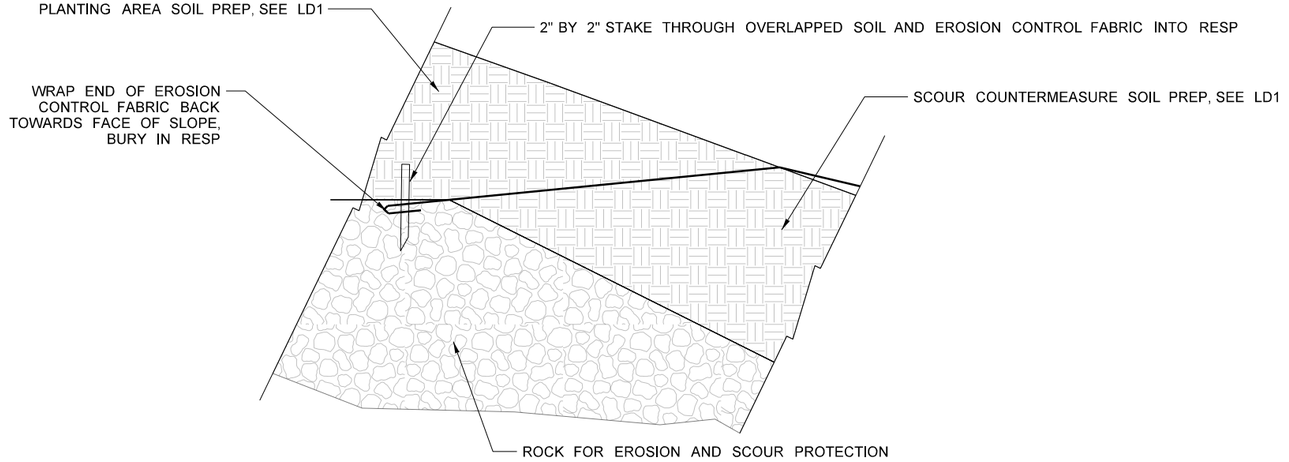
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CHANNEL SLOPE BELOW BRIDGE TYPICAL CROSS SECTION

SECTION VIEW

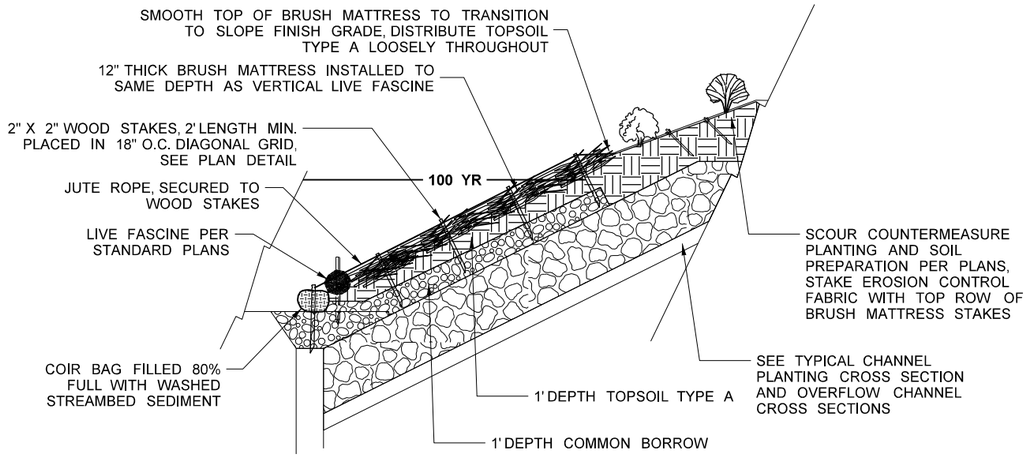
NOT TO SCALE



EROSION CONTROL BLANKET BURIAL ENLARGEMENT

SECTION VIEW

NOT TO SCALE



SOIL LIFT TRANSITION TYPICAL CROSS SECTION

SECTION VIEW

NOT TO SCALE

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STATE OF WASHINGTON — LINDSEY A. JUNGBLUTH — No. 1483 EXP. 11/06/2027 — LICENSED LANDSCAPE ARCHITECT

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SR 544
NOOKSACK RIVER OVERFLOW CULVERT ER PERMANENT REPAIR

LANDSCAPE DETAILS

Plot 6

PLAN REF NO **LD4**

SHEET 50 OF 119 SHEETS

PLANT MATERIAL LIST

COMMON NAME	BOTANICAL NAME	QUANTITY	SIZE/ ROOT CONDITION	MAX. HEIGHT/LENGTH	REMARKS
TREES					
DOUGLAS-FIR	PSEUDOTSUGA MENZIESII	72	NO. 2 CONT.	18" HT	SECTION 9-14.7(2), SINGLE LEADER
GRAND FIR	ABIES GRANDIS	72	NO. 2 CONT.	18" HT	SECTION 9-14.7(2), SINGLE LEADER
SITKA SPRUCE	PICEA SITCHENSIS	36	NO. 2 CONT.	18" HT	SECTION 9-14.7(2), SINGLE LEADER
CASCARA	FRANGULA PURSHIANA	36	NO. 2 CONT.	18" HT	SECTION 9-14.7(2), SINGLE LEADER
BEAKED HAZELNUT	CORYLUS CORNUTA	72	NO. 2 CONT.	18" HT	SECTION 9-14.7(2), THREE STEM MIN.
OREGON ASH	FRAXINUS LATIFOLIA	36	NO. 2 CONT.	18" HT	SECTION 9-14.7(2), SINGLE LEADER
SHRUBS					
KINNIKINNICK *	ARCTOSTAPHYLOS UVA-URSI	536	NO. 1 CONT.		SECTION 9-14.7(2), THREE STEM MIN.
OCEANSPRAY ***	HOLODISCUS DISCOLOR	179	NO. 1 CONT.		SECTION 9-14.7(2), THREE STEM MIN.
BLACK TWINBERRY **	LONICERA INVOLUCRATA	321	NO. 1 CONT.		SECTION 9-14.7(2), THREE STEM MIN.
CREEPING OREGON-GRAPE *	MAHONIA REPENS	357	NO. 1 CONT.		SECTION 9-14.7(2), THREE STEM MIN.
MOCK ORANGE ***	PHILADELPHUS LEWISII	322	NO. 1 CONT.		SECTION 9-14.7(2), THREE STEM MIN.
BALDHIP ROSE **	ROSA GYMNOCARPA	161	NO. 1 CONT.		SECTION 9-14.7(2), THREE STEM MIN.
CLUSTERED ROSE ***	ROSA PISOCARPA	134	NO. 1 CONT.		SECTION 9-14.7(2), THREE STEM MIN.
THIMBLEBERRY **	RUBUS PARVIFLORUS	72	NO. 1 CONT.		SECTION 9-14.7(2), THREE STEM MIN.
SALMONBERRY ***	RUBUS SPECTABILIS	108	NO. 1 CONT.		SECTION 9-14.7(2), THREE STEM MIN.
DOUGLAS SPIREA **	SPIRAEA DOUGLASII	72	NO. 1 CONT.		SECTION 9-14.7(2), THREE STEM MIN.
SNOWBERRY **	SYMPHORICARPOS ALBUS	642	NO. 1 CONT.		SECTION 9-14.7(2), THREE STEM MIN.
COASTAL STRAWBERRY *	FRAGRARIA CHILOENSIS	179	NO. 1 CONT.		SECTION 9-14.7(2), FULL CONTAINER
SLOUGH SEDGE *	CAREX OBNUPTA	278	NO. 1 CONT.		SECTION 9-14.7(2), FULL CONTAINER
COMMON RUSH *	JUNCUS EFFUSUS	125	NO. 1 CONT.		SECTION 9-14.7(2), FULL CONTAINER
HARDSTEM BULRUSH *	SCHOENOPLECTUS ACUTUS	42	NO. 1 CONT.		SECTION 9-14.7(2), FULL CONTAINER
SMALL-FRUITED BULRUSH **	SCIRPUS MICROCARPUS	125	NO. 1 CONT.		SECTION 9-14.7(2), FULL CONTAINER
RED-OSIER DOGWOOD LIVE STAKE	CORNUS SERICEA	107	LIVE STAKE	3 FT	9-14.7(1), LIVE CUTTING
PACIFIC NINEBARK LIVE STAKE	PHYSOCARPUS CAPITATUS	107	LIVE STAKE	3 FT	9-14.7(1), LIVE CUTTING
BIOENGINEERING					
SLOUGH SEDGE	CAREX OBNUPTA	263	BARE ROOT		9-14.7(2), BARE ROOT
COMMON RUSH	JUNCUS EFFUSUS	263	BARE ROOT		9-14.7(2), BARE ROOT
RED-OSIER DOGWOOD LIVE STAKE	CORNUS SERICEA	590	LIVE STAKE	3 FT	9-14.7(1), LIVE CUTTING
SITKA WILLOW LIVE STAKE	SALIX SITCHENSIS	590	LIVE STAKE	3 FT	9-14.7(1), LIVE CUTTING
PACIFIC NINEBARK LIVE STAKE	PHYSOCARPUS CAPITATUS	983	LIVE STAKE	3 FT	9-14.7(1), LIVE CUTTING
BLACK TWINBERRY LIVE STAKE	LONICERA INVOLUCRATA	983	LIVE STAKE	3 FT	9-14.7(1), LIVE CUTTING
BRUSH MATTRESS - 80 TOTAL S.Y.					
SITKA WILLOW LIVE CUTTING	SALIX SITCHENSIS	50%	LIVE STAKE	3 FT	9-14.7(1), LIVE CUTTING
RED-OSIER DOGWOOD LIVE CUTTING	CORNUS SERICEA	50%	LIVE STAKE	3 FT	9-14.7(1), LIVE CUTTING
LIVE FASCINE - 36 TOTAL L.F.					
RED-OSIER DOGWOOD	CORNUS SERICEA	34%	12" DIAM. FASCINE	6 FT	SECTION 8-02.3(15)A, 9-14.7(1), LIVE CUTTING
SITKA WILLOW	SALIX SITCHENSIS	33%	12" DIAM. FASCINE	6 FT	SECTION 8-02.3(15)A, 9-14.7(1), LIVE CUTTING

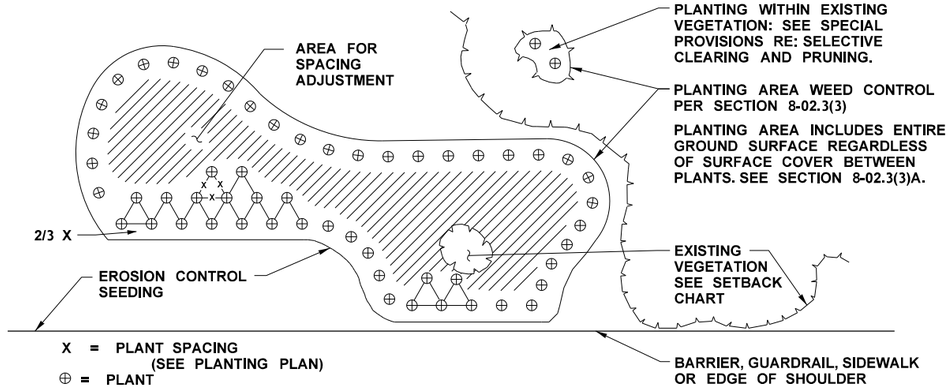
PLANT MATERIAL SETBACK

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	WALL	FENCE	SIGNS	EXISTING TREE TRUNK	EXISTING VEGETATION MASS	OVERHEAD POWER	DRAINAGE STRUCTURE	DRAINAGE ACCESS ROAD	SIDEWALK	SIGNING AND LIGHTING
GROUNDCOVER *	5`	5`	3`	1.5'	1.5'	5'	5'	-	5'	5'	2`	2`
SMALL SHRUB **	5`	10`	5`	3'	6'	5`	5`	-	5`	5`	2`	5`
TALL SHRUB ***	10`	15`	10	3'	6'	10'	10'	10'	10`	10`	5`	10`
DECIDUOUS TREE	15`	20`	15`	10`	15'	15`	10'	20'	10`	15'	10`	15`
EVERGREEN TREE	15`	20`	15`	10`	15'	15`	10'	30'	10`	15'	10`	15`

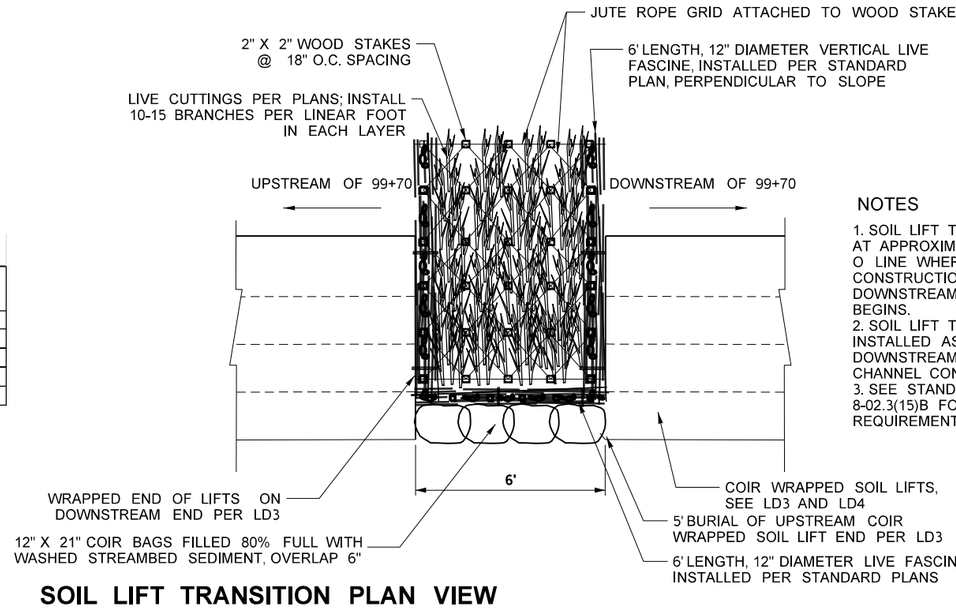
GENERAL PLANT MATERIAL NOTES:

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 MATERIAL SHALL BE NURSERY GROWN STOCK.
4. REFERENCE PLANT MATERIAL LIST FOR TREES REQUIRING STAKING. TREES SHALL BE STAKED AND SECURED WITHIN 48 HOURS AFTER PLANTING.
5. LIVE CUTTING QUANTITIES INCLUDED IN PLANT MATERIAL LIST ARE PART OF BID ITEM "PSIPE LIVE BRUSH MATTRESS".
6. SEPARATE QUANTITIES FOR SOIL LIFT PLANTING ARE INCLUDED IN PLANT MATERIAL LIST. THEY ARE PART OF BID ITEM "COIR WRAPPED SOIL LIFTS".



PLANTING AREA LAYOUT, SETBACK, AND WEED CONTROL

NOT TO SCALE



NOTES

1. SOIL LIFT TRANSITION OCCURS AT APPROXIMATELY 99+70 ON THE O LINE WHERE UPSTREAM CONSTRUCTION ENDS AND DOWNSTREAM CONSTRUCTION BEGINS.
2. SOIL LIFT TRANSITION TO BE INSTALLED AS PART OF DOWNSTREAM OVERFLOW CHANNEL CONSTRUCTION.
3. SEE STANDARD SPECIFICATION 8-02.3(15)B FOR CONSTRUCTION REQUIREMENTS

SOIL LIFT TRANSITION PLAN VIEW

SECTION VIEW

NOT TO SCALE

FILE NAME	T:\412006\XL6549 Nooksack Overflow ER Permanent Repair\CAD\ContractPlans\XL6549_PS_LS.dgn				REGION NO.	STATE	FED.AID PROJ.NO.
TIME	1:06:30 PM				10	WASH	
DATE	9/24/2026				JOB NUMBER 26A012		
PLOTTED BY	oheajac				CONTRACT NO.		LOCATION NO.
DESIGNED BY	J. O'HEA						
ENTERED BY	J. O'HEA						
CHECKED BY	L. JUNGBLUTH						
PROJ. ENGR.	S. BEIER						
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY			

STATE OF WASHINGTON LINDSEY A. JUNGBLUTH No. 19493 EXP. 11/06/2027 LICENSED LANDSCAPE ARCHITECT

DATE

P.E. STAMP BOX

DATE

P.E. STAMP BOX

Washington State Department of Transportation

SR 544
NOOKSACK RIVER OVERFLOW CULVERT ER PERMANENT REPAIR

LANDSCAPE DETAILS

Plot 7

PLAN REF NO **LD5**

SHEET 51 OF 119 SHEETS

QUANTITY TABULATION - PAVING AND PAVEMENT MARKING

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	CEMENT CONC. TRAFFIC CURB AND GUTTER	EXTRUDED CURB		PRECAST CONC. BARRIER TYPE F UNANCHORED	REMOVING AND RESETTING EXISTING PERMANENT BARRIER	BARRIER DELINEATOR	PLASTIC LINE	PLASTIC DRAINAGE MARKING	RECESSED PAVEMENT MARKER		CEMENT CONC. SIDEWALK	COATED CHAIN LINK FENCE TYPE 4	SINGLE 6 FT. CHAIN LINK GATE		SEE GENERAL NOTES
		S.Y.	L.F.	L.F.		L.F.	L.F.	EACH	L.F.	EACH	HUND		S.Y.	L.F.	EACH		
PV1-1	E 398+77.7 (10.3' LT) TO E 406+58.8 (11.5' LT)								779								11
PV1-2	E 398+82.5 (1.6' RT) TO E 406+80.3 (0.3' LT)								798		0.1						11, 12
PV1-3	E 398+89.7 (14.3' LT) TO E 402+68.0 (14.0' LT)		371										261				4, 5, 8
PV1-4	E 398+89.7 TO E 400+93.3	692															
PV1-5	E 398+89.7 (12.6' RT) TO E 406+98.9 (11.0' RT)								812								11
PV1-6	E 401+00 (11.0' LT)									1							13
PV1-7	E 401+70.7 (22.8' RT) TO E 404+89.9 (15.0' RT)					313		16									1, 3, 14
PV1-8	E 402+17.7 (36.0' RT) TO E 402+68.0 (24.7' RT)													45	1		9, 10
PV1-9	E 402+54.6 (11.0' LT & RT)									2							13
PV1-10	E 402+54.8 (27.6' RT) TO E 402+68.0 (24.3' RT)			14													6, 7
PV1-11	E 404+55.1 (11.0' RT)									1							13
PV1-12	E 404+89.9 (15.0' RT) TO E 405+02.4 (15.0' RT)					13		1									2, 14
PV1-13	E 404+93.3 (18.0' RT) TO E 406+55.8 (14.6' RT)						163										
	SHEET TOTAL	692	371	14		326	163	17	2389	4	0.1		261	45	1		
	PROJECT TOTAL	692	371	14		326	163	17	2389	4	0.1		261	45	1		

GENERAL NOTES:

1. SEE STANDARD PLAN C-60.15 FOR CONCRETE BARRIER TYPE F WITH SCUPPPERS (PRECAST).

2.SEE STANDARD PLAN C-60.30 TYPE F TRANSITION TO TYPE 2 BARRIER PLAN.

3. SEE STANDARD PLAN C-60.80 CONCRETE BARRIER TYPE F (PRECAST) TERMINAL.

4. SEE STANDARD PLAN F-10.12 FOR CEMENT CONCRETE CURBS.

5. SEE STANDARD PLAN F-10.16 FOR CEMENT CONCRETE CURB AND GUTTER PAN.

6. SEE STANDARD PLAN F-10.40 FOR EXTRUDED CURB PLACEMENT.

7. SEE STANDARD PLAN F-10.42 FOR EXTRUDED CURB, TYPE 1.

8. SEE STANDARD PLAN F-30.10 FOR CEMENT CONCRETE SIDEWALK.

9. SEE STANDARD PLAN L-20.10 FOR CHAIN LINK FENCE TYPES 3 AND 4.

10. SEE STANDARD PLAN L-30.10 FOR CHAIN LINK GATE.

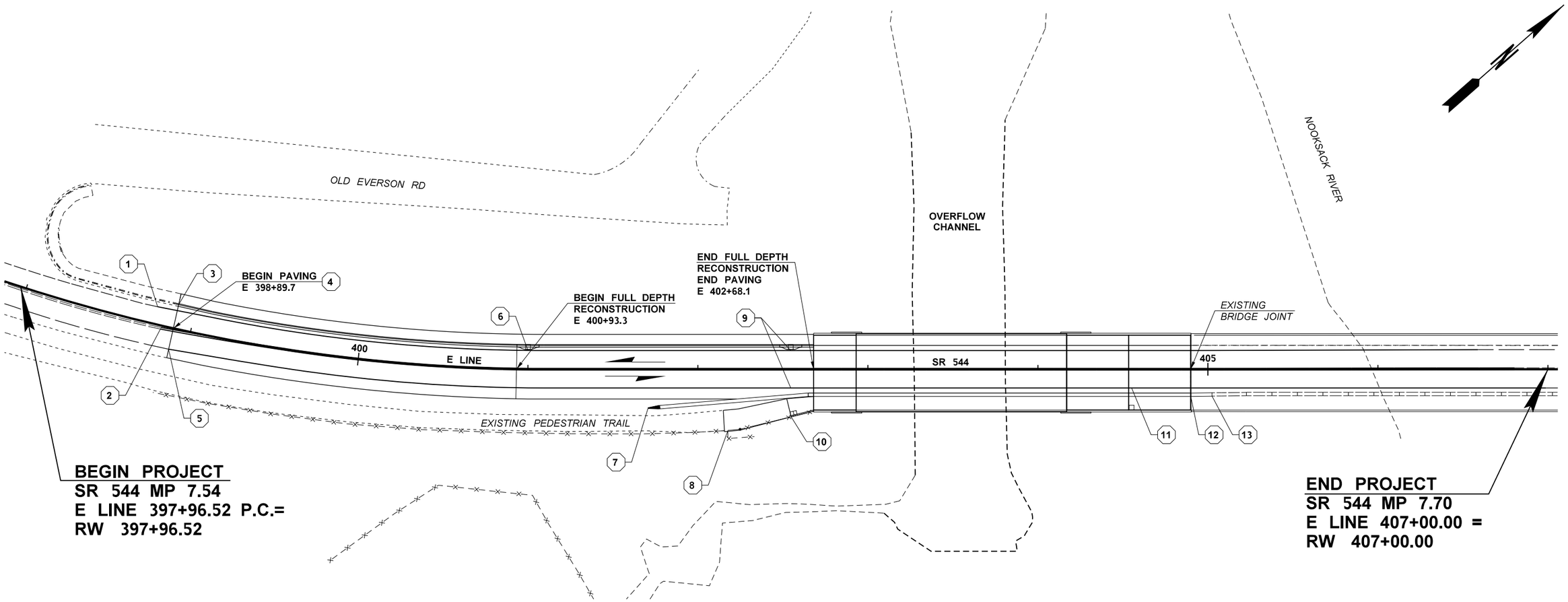
11. SEE STANDARD PLAN M-20.10 FOR LONGITUDINAL MARKING PATTERS.

12. SEE STANDARD PLAN M-20.30 FOR LONGITUDINAL MARKING SUPPLEMENT WITH RAISED PAVEMENT MARKERS

13. SEE STANDARD PLAN M-24.60 FOR SYMBOL MARKINGS MISCELLANEOUS.

14. SEE STANDARD PLAN M-40.10 FOR GUIDE POST AND BARRIER DELINEATORS.

| | | | | | | | | | | | | | | | | |



BEGIN PROJECT
SR 544 MP 7.54
E LINE 397+96.52 P.C.=
RW 397+96.52

END PROJECT
SR 544 MP 7.70
E LINE 407+00.00 =
RW 407+00.00

LEGEND

400 — CONSTRUCTION CENTERLINE	CURB AND GUTTER
EXISTING SIDEWALK	CONC. SIDEWALK
EXISTING CURB AND GUTTER	PRECAST CONC. BARRIER
EXISTING EDGE OF PAVEMENT	EDGE OF PAVEMENT
EXISTING GRAVEL EDGE	DOUBLE CENTERLINE (YELLOW)
EXISTING EDGE LINE	EDGE LINE (WHITE)
EXISTING DOUBLE YELLOW CENTERLINE	CHAIN LINK FENCE
EXISTING CHAIN LINK FENCE	CONC. BARRIER TERMINAL
EXISTING CONC. BARRIER	CHAIN LINK FENCE GATE
EXISTING CHANNEL EDGE	CATCH BASIN / GRATE INLET
OVERFLOW CHANNEL EDGE	DIRECTION ARROW
BRIDGE STRUCTURE	(X) QUANTITY TABULATION NOTE SEE SHEET QTPV1

0 30 60
SCALE IN FEET

NOTES:

1. SEE ROADWAY SECTIONS SHEETS FOR STATIONING AND LOCATIONS OF TIE-IN DEPTHS.

FILE NAME	T:\412334\XL6549 SR 544 Nooksack Overflow Repair_CAE\CAD\ContractPlans\XL6549_250_PS_PV.dgn				REGION NO. 10	STATE WASH	FED.AID PROJ.NO.	Plot 1
TIME	8:24:09 PM				JOB NUMBER 26A012			PLAN REF NO PV1
DATE	9/24/2026				CONTRACT NO.		LOCATION NO.	
PLOTTED BY	hardoug							SHEET 53 OF 119 SHEETS
DESIGNED BY	D. HARRIS							
ENTERED BY	D. HARRIS							
CHECKED BY	E. WINTER							
PROJ. ENGR.	S. BEIER							
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY				

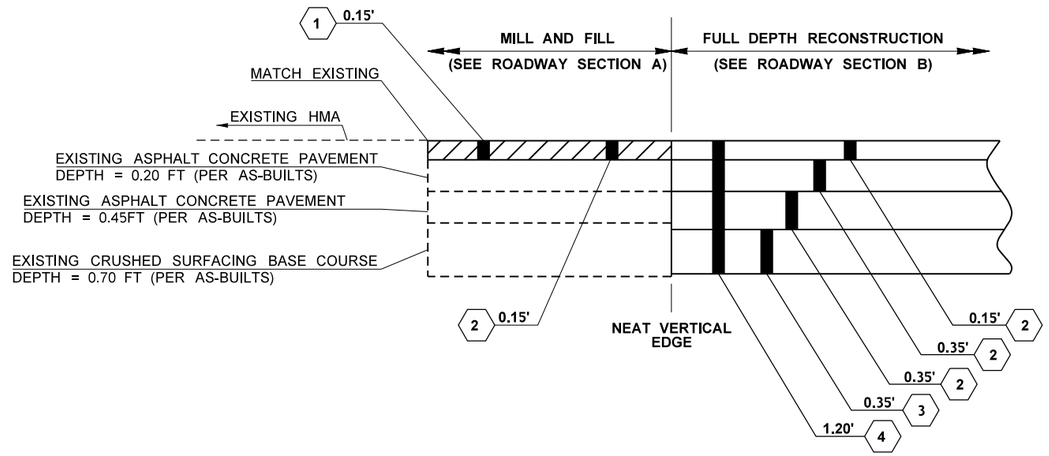
SPENCER T. BEIER — STATE OF WASHINGTON — 36005 — REGISTERED PROFESSIONAL ENGINEER
SEE SHEET CT1 DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

Washington State Department of Transportation

SR 544
NOOKSACK RIVER OVERFLOW CULVERT ER PERMANENT REPAIR

PAVING AND PAVEMENT MARKING PLAN



BUTT JOINT DETAIL

STA. E 400+93.3

NOT TO SCALE

LEGEND

1. PLANING BITUMINOUS PAVEMENT
2. HMA CL. 1/2 IN. PG 58H-22
3. CRUSHED SURFACING BASE COURSE
4. ROADWAY EXCAVATION INC. HAUL*

* INCLUDED IN BID ITEM "EARTHWORK", L.S.

NOTES:

1. ALL SURFACING AND PAVING DEPTHS ARE COMPACTED DEPTHS AND COURSES SHALL NOT EXCEED THE DEPTHS DEFINED IN THE STANDARD SPECIFICATIONS.

FILE NAME	T:\412334\XL6549 SR 544 Nooksack Overflow Repair_CAE\CAD\ContractPlans\XL6549_250_PS_PV.dgn				REGION NO. 10	STATE WASH	FED.AID PROJ.NO.
TIME	8:24:15 PM						
DATE	9/24/2026						
PLOTTED BY	hardoug				JOB NUMBER 26A012		
DESIGNED BY	D. HARRIS						
ENTERED BY	D. HARRIS						
CHECKED BY	E. WINTER				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

SEE SHEET CT1

DATE

P.E. STAMP BOX

DATE

P.E. STAMP BOX

Washington State Department of Transportation

SR 544

NOOKSACK RIVER OVERFLOW CULVERT ER PERMANENT REPAIR

PAVING DETAILS

Plot 2

PLAN REF NO PVD1

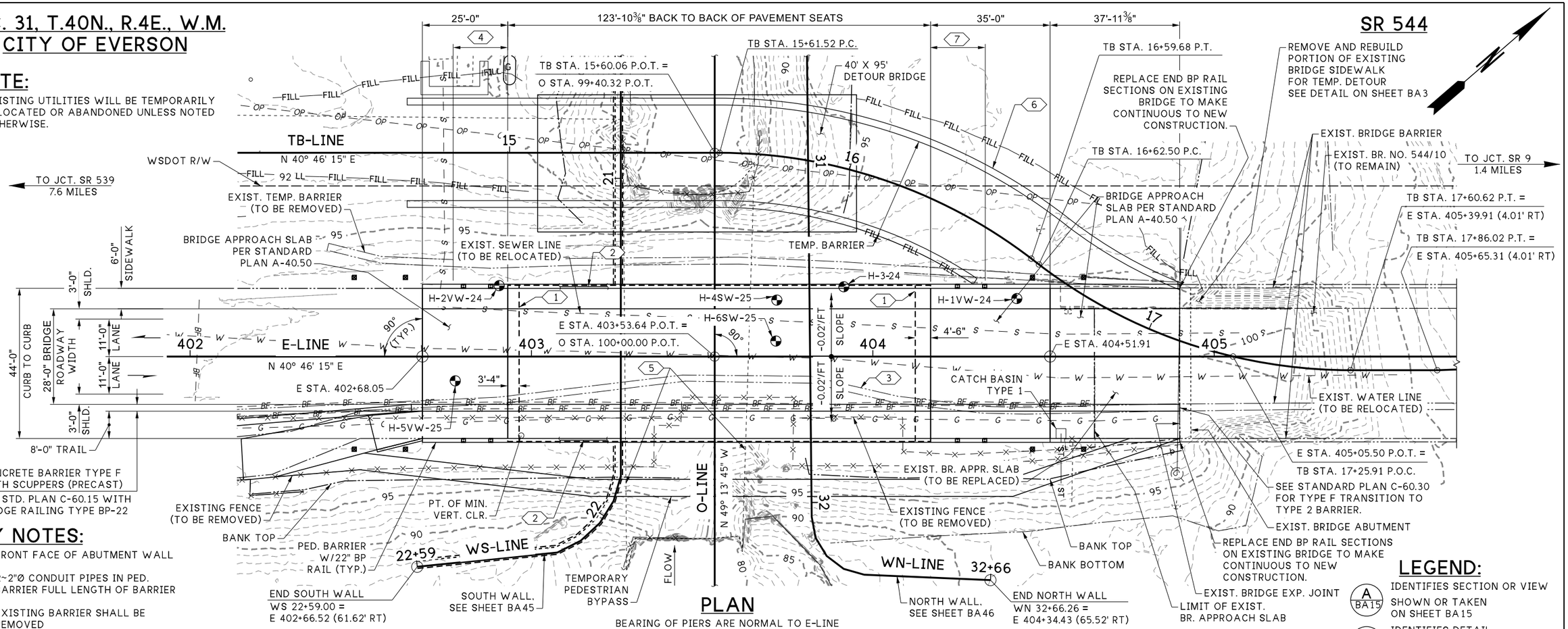
SHEET 54 OF 119 SHEETS

SEC. 31, T.40N., R.4E., W.M.
CITY OF EVERSON

NOTE:

1. EXISTING UTILITIES WILL BE TEMPORARILY RELOCATED OR ABANDONED UNLESS NOTED OTHERWISE.

SR 544



PLAN

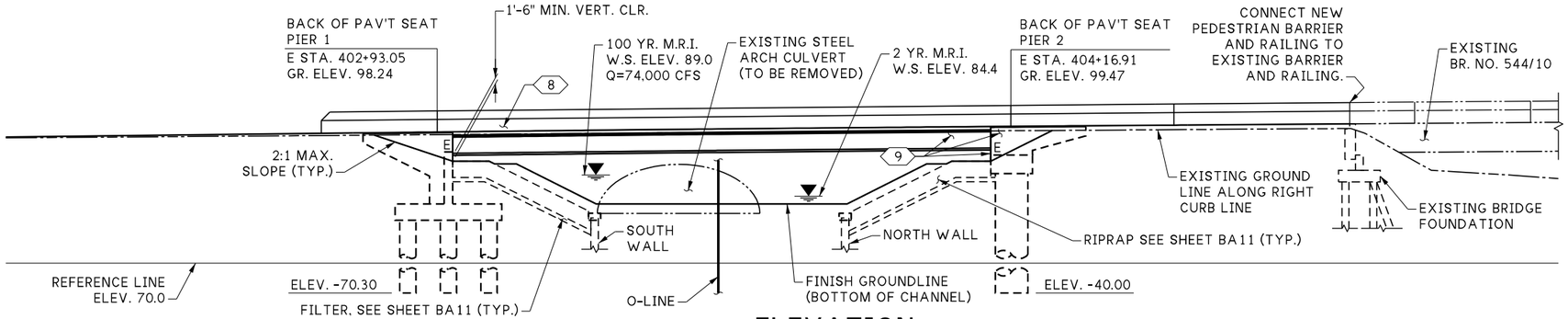
BEARING OF PIERS ARE NORMAL TO E-LINE

KEY NOTES:

1. FRONT FACE OF ABUTMENT WALL
2. 2~2"Ø CONDUIT PIPES IN PED. BARRIER FULL LENGTH OF BARRIER
3. EXISTING BARRIER SHALL BE REMOVED
4. 16'-0" WINGWALL AT PIER 1 TYPICAL BOTH SIDES
5. EXIST. NOOKSACK RIVER OVERFLOW METAL ARCH CULVERT STRUCTURE NO. 544/9C (TO BE REMOVED)
6. BARRIER AND BP RAIL CONNECT TO EXIST. SIDEWALK
7. 16'-2" WINGWALL AT PIER 2 TYPICAL BOTH SIDES
8. BACK OF BARRIER, FRACTURED FIN WITH PIGMENTED SEALER, TYP.
9. CLASS 2 SMOOTH FINISH WITH PIGMENTED SEALER, TYP.

DATUM

(NAVD) 88



ELEVATION

NOTE: 500 YR M.R.I.
W.S. ELEV. 92.5
Q = 95,000 CFS

GRADE ELEVATIONS SHOWN ARE FINISH GRADES AT TOP OF BRIDGE DECK ON E LINE AND ARE EQUAL TO PROFILE GRADE.
SEE STD. PLAN A-50.10 AND A-50.40 FOR EMBANKMENT DETAILS AT BRIDGE ENDS.

LEGEND:

- (A / BA15) IDENTIFIES SECTION OR VIEW SHOWN OR TAKEN ON SHEET BA15
- (1 / —) IDENTIFIES DETAIL SHOWN OR TAKEN ON SAME SHEET
- 99 KEY NOTE REFERENCE ON SAME SHEET
- — W — — W — EXIST. WATER LINE
- — G — — G — EXIST. GAS LINE
- — BF — — BF — EXIST. BURIED FIBER
- — BT — — BT — EXIST. BURIED TELEPHONE
- — S — — S — EXIST. SEWER LINE
- — OP — — OP — EXIST. OVERHEAD POWER
- EXIST. GRATE INLET
- EXIST. POWER POLE
- BOREHOLE LOCATION
- E EXPANSION BEARING
- EXIST. JUNCTION BOX LOCATION
- NEMA-4X JUNCTION BOX LOCATION
- EXIST. CATCH BASIN (TO BE REMOVED)

PRECAST PRESTRESSED GIRDERS (WF50G)
LOADING: HL-93
SEISMIC OPERATIONAL CLASSIFICATION: ORDINARY

FILE NAME	001_LAYOUT.dgn				
BRIDGE DES. ENG.	Leland, AC				
BRIDGE PROJ. ENG.					
SUPERVISOR	Aldrich, B				
DESIGNED BY	Vahedi, M	06/26			
CHECKED BY	Sawahata, D	07/26			
ENTERED BY	Brutzman, N	06/26			
PRELIM. PLAN BY					
ARCH. / SPEC.			REVISION	DATE	BY

REGION NO.	STATE
10	WASH
JOB NUMBER	
26A012	
CONTRACT NO.	

WSDOT

SEE CERTIFICATION SHEET DATE — STAMP BOX

AMY C. LELAND — STATE OF WASHINGTON — 39195 — PROFESSIONAL ENGINEER

SEE CERTIFICATION SHEET DATE — STAMP BOX

SR 544
NOOKSACK RIVER OVERFLOW CULVERT
ER PERMANENT REPAIR
NOOKSACK RIVER BRIDGE NO. 544/9

LAYOUT

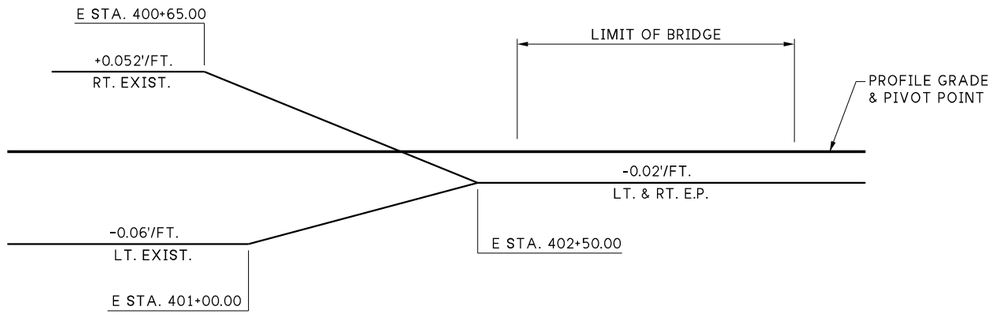
PLAN REF NO. BA1

SHEET 55 OF 119 SHEETS

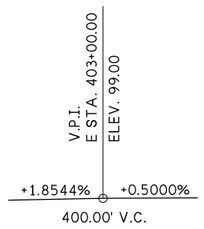
PLOT DATE: 23-Sep-2026 PLOT TIME: 11:50:24 AM PLOTTED BY: BrutzmN FILE PATH: pw://projectstore.wsdot.wa.gov:WSDOT/Documents/_HQ/Bridge & Structures/Bridge Design/_Design Projects/544/BR 544-9/2024_New Bridge_XL6549/_DGN/_Sheets/001_LAYOUT.dgn

CURVE DATA

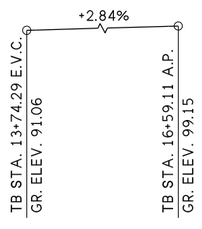
P.I. STATION	NORTHING	EASTING	DELTA	RADIUS	LENGTH	TANGENT
TB STA. 16+12.43	1031099.28	1603722.59	37° 29' 36" RT.	150.00'	98.16'	50.91'
TB STA. 17+13.39	1031120.56	1603825.02	37° 28' 53" LT.	150.00'	98.13'	50.89'



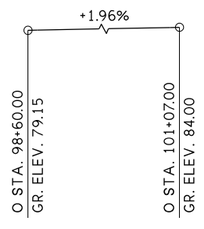
E-LINE SUPERELEVATION DIAGRAM



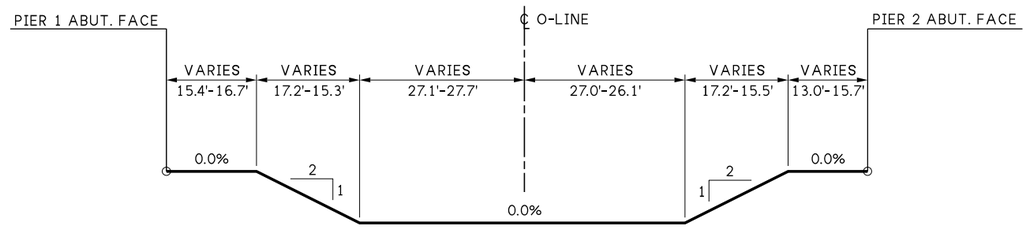
E-LINE PROFILE



TB-LINE PROFILE



O-LINE PROFILE



O-LINE CHANNEL SECTION

SEE SHEETS OC1, OCS1 TO OCS3, AND OCP1 FOR DETAILS

LRFD GENERAL NOTES:

1. ALL MATERIAL AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION DATED 2027.
2. THIS STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS 10TH EDITION 2024. DEAD LOAD INCLUDES ADDITIONAL FUTURE WEARING SURFACE OF 35 POUNDS PER SQUARE FOOT. THE BRIDGE TRAFFIC BARRIERS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS FOR TEST LEVEL 4 (TL-4) RAILINGS.
3. THE SEISMIC DESIGN OF THIS STRUCTURE HAS BEEN COMPLETED IN ACCORDANCE WITH THE REQUIREMENTS OF THE AASHTO GUIDE SPECIFICATIONS FOR LRFD SEISMIC BRIDGE DESIGN 3RD EDITION 2023 WITH INTERIM THROUGH 2025, USING SEISMIC DESIGN CATEGORY C, SITE CLASS D, AND EFFECTIVE PEAK GROUND ACCELERATION COEFFICIENT OF 0.39.
4. THE CONCRETE IN BRIDGE DECKS SHALL BE CLASS 4000D. THE CONCRETE IN BRIDGE APPROACH SLABS SHALL BE CLASS 4000A. THE CONCRETE IN SHAFTS SHALL BE CLASS 5000P. ALL OTHER CAST-IN-PLACE CONCRETE SHALL BE CLASS 4000.
5. THE BACKFILL BEHIND THE ABUTMENTS MAY BE PLACED PRIOR TO PLACEMENT OF THE SUPERSTRUCTURE, IN ACCORDANCE WITH SECTION 2-09.3(1)E.
6. UNLESS OTHERWISE SHOWN IN THE PLANS, CONCRETE COVER MEASURED FROM THE FACE OF CONCRETE TO THE FACE OF ANY REINFORCING STEEL SHALL BE 2½" AT THE TOP OF THE BRIDGE DECK, 1" AT THE BOTTOM OF THE BRIDGE DECK, 3" AT THE BOTTOM OF SHAFT CAP, AND 2" AT ALL OTHER LOCATIONS.
7. FALSEWORK SHALL BE CAREFULLY RELEASED TO PREVENT IMPACT OR UNDUE STRESS IN THE STRUCTURE.
8. CONDUITS, JUNCTION BOXES, AND UTILITIES ARE SHOWN FOR REFERENCE ONLY. THE CONTRACTOR SHALL COORDINATE THESE PLANS WITH THE ELECTRICAL, I.T.S. AND OTHER CIVIL PLANS.
9. EXISTING FEATURES AND DIMENSIONS ARE BASED ON INSPECTION REPORTS AND AS-BUILT PLANS. ALL DIMENSIONS NOTED WITH AN ASTERISK (*) SHALL BE FIELD MEASURED BY THE CONTRACTOR PRIOR TO ORDERING MATERIALS AND PROCEEDING WITH CONSTRUCTION.

FILE NAME	002_GENERAL NOTES.dgn				
BRIDGE DES. ENG.	Leland, AC				
BRIDGE PROJ. ENG.					
SUPERVISOR	Aldrich, B				
DESIGNED BY	Vahedi, M	06/26			
CHECKED BY	Sawahata, D	07/26			
ENTERED BY	Brutzman, N	06/26			
PRELIM. PLAN BY					
ARCH. / SPEC.			REVISION	DATE	BY

REGION NO.	STATE
10	WASH
JOB NUMBER	
26A012	
CONTRACT NO.	

WSDOT

BRIAN S. ALDRICH, STATE OF WASHINGTON, 37834, PROFESSIONAL ENGINEER — SEE CERTIFICATION SHEET — DATE — STAMP BOX

AMY C. LELAND, STATE OF WASHINGTON, 39195, PROFESSIONAL ENGINEER — SEE CERTIFICATION SHEET — DATE — STAMP BOX

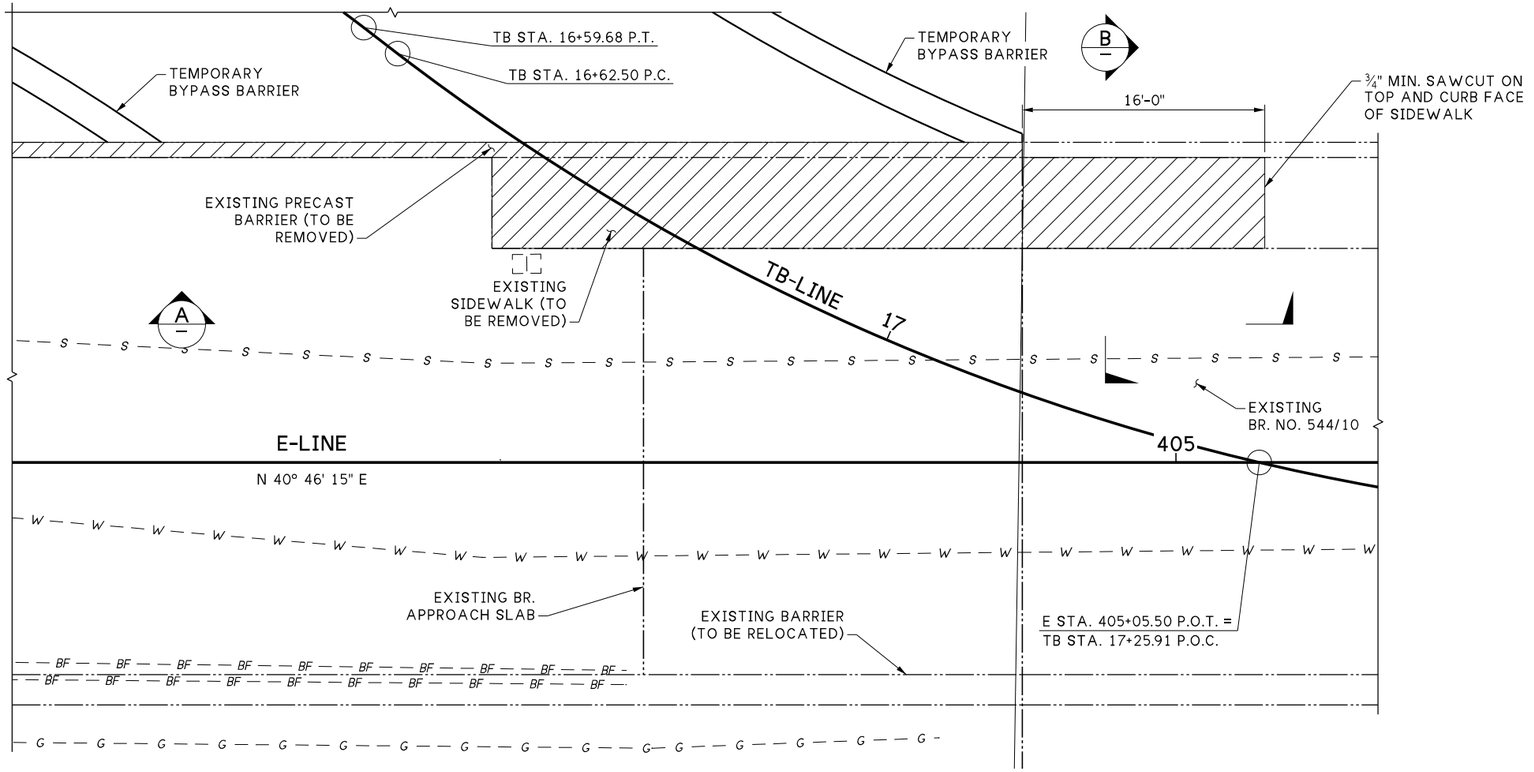
SR 544
NOOKSACK RIVER OVERFLOW CULVERT
ER PERMANENT REPAIR
NOOKSACK RIVER BRIDGE NO. 544/9

GENERAL NOTES

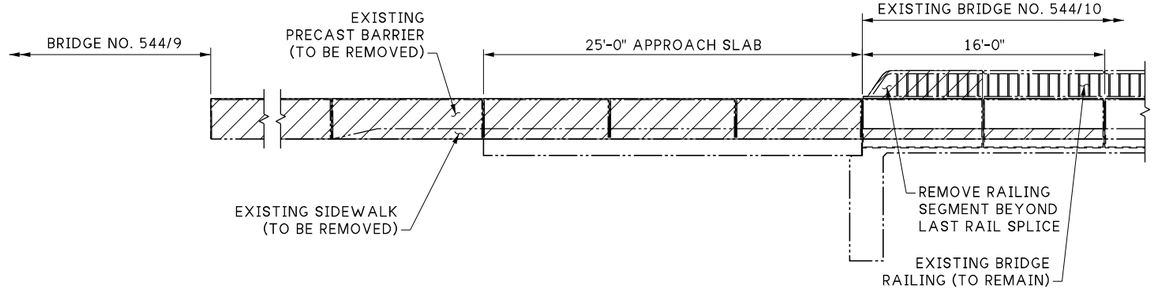
PLAN REF NO: BA2

SHEET 56 OF 119 SHEETS

PLOT DATE: 23-Sep-2026 PLOT TIME: 11:33:06 AM PLOTTED BY: BrutzmN FILE PATH: pw://projectstore.wsdot.wa.gov:WSDOT/Documents/_HQ/Bridge & Structures/Bridge Design/_Design Projects/544/BR 544-9/2024_New Bridge_XL6549/_DGN/_Sheets/002_GENERAL NOTES.dgn



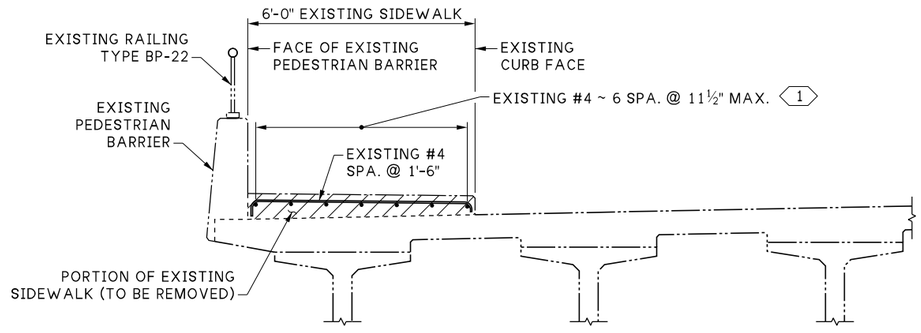
TEMPORARY BYPASS DEMOLITION PLAN



SECTION A --

KEY NOTE:

1 CUT A MINIMUM OF 1 INCH BEHIND THE FINAL SURFACE. FILL VOID LEFT BY REMOVAL WITH MORTAR CONFORMING TO SECTION 9-20.4(2).



SECTION B --

FILE NAME	003_DEMOLITION.dgn				
BRIDGE DES. ENG.	Leland, AC				
BRIDGE PROJ. ENG.					
SUPERVISOR	Aldrich, B				
DESIGNED BY	Vahedi, M	06/26			
CHECKED BY	Sawahata, D	07/26			
ENTERED BY	Brutzman, N	06/26			
PRELIM. PLAN BY					
ARCH. / SPEC.			REVISION	DATE	BY

REGION NO.	STATE
10	WASH

JOB NUMBER 26A012

CONTRACT NO.

WSDOT

BRIAN S. ALDRICH — STATE OF WASHINGTON — 37834 — PROFESSIONAL ENGINEER
SEE CERTIFICATION SHEET
DATE
STAMP BOX

AMY C. LELAND — STATE OF WASHINGTON — 39195 — PROFESSIONAL ENGINEER
SEE CERTIFICATION SHEET
DATE
STAMP BOX

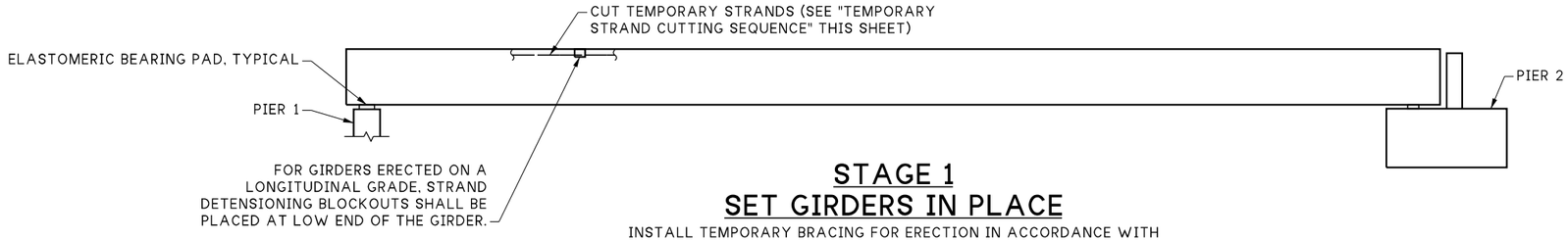
SR 544
NOOKSACK RIVER OVERFLOW CULVERT ER PERMANENT REPAIR
NOOKSACK RIVER BRIDGE NO. 544/9

TEMPORARY BYPASS DEMOLITION DETAILS

PLAN REF NO. BA3

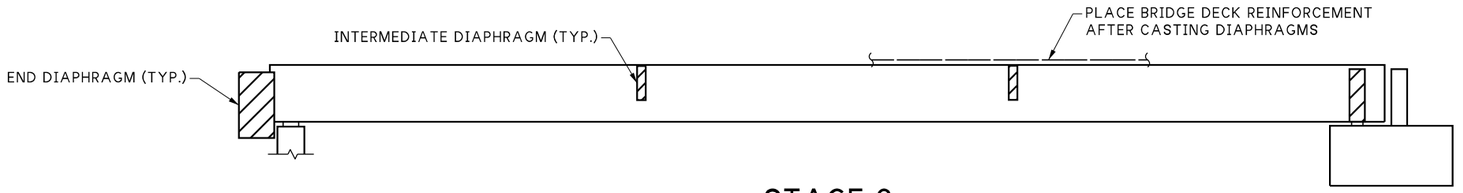
SHEET 57 OF 119 SHEETS

PLOT DATE: 23-Sep-2026 PLOT TIME: 11:33:16 AM PLOTTED BY: BrutzmN FILE PATH: pw://projectstore.wsdot.wa.gov:WSDOT/Documents/_HQ/Bridge & Structures/Bridge Design/_Design Projects/544/BR 544-9/2024_New Bridge_XL6549/_DGN/_Sheets/003_DEMOLITION



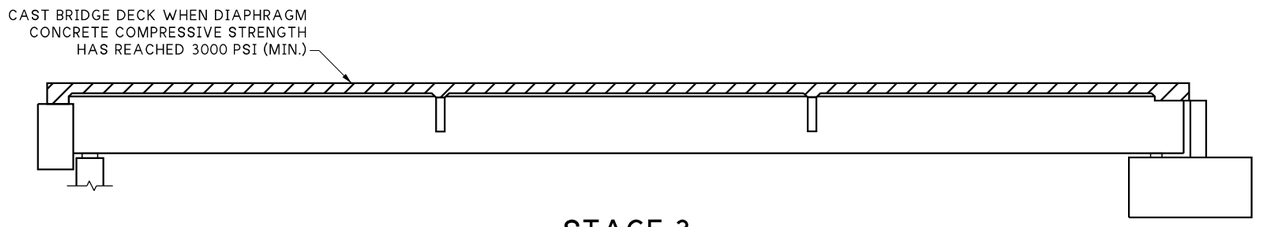
STAGE 1
SET GIRDERS IN PLACE

INSTALL TEMPORARY BRACING FOR ERECTION IN ACCORDANCE WITH STD. SPEC. SECTION 6-02.3(17)F4

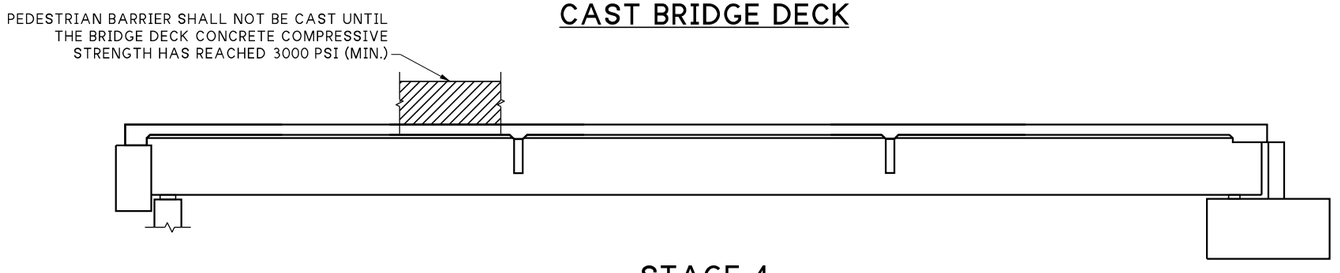


STAGE 2
CAST DIAPHRAGMS AND PLACE BRIDGE DECK REINFORCEMENT

INSTALL TEMPORARY BRACING FOR DIAPHRAGM AND DECK PLACEMENT IN ACCORDANCE WITH STD. SPEC. SECTION 6-02.3(17)F5



STAGE 3
CAST BRIDGE DECK



STAGE 4
CAST PEDESTRIAN BARRIERS

TEMPORARY STRAND CUTTING SEQUENCE

1. ERECT AND BRACE GIRDERS.
2. JUST PRIOR TO CUTTING THE TEMPORARY STRANDS, REMOVE EXPANDED POLYSTYRENE IN BLOCKOUTS IN TOP FLANGE OF GIRDERS. ONCE THE EXPANDED POLYSTYRENE HAS BEEN REMOVED FROM THE STRAND DETENSIONING BLOCKOUT, PREVENT MOISTURE FROM ENTERING THE BLOCKOUT UNTIL THE TEMPORARY TOP STRAND IS CUT AND THE BLOCKOUT FILLED WITH GROUT.
3. CUT STRANDS IN BLOCKOUTS. STRANDS MAY BE CUT BY USING A CUTTING TORCH AND MOVING THE FLAME BACK AND FORTH OVER THE LENGTH OF EXPOSED STRAND TO LET INDIVIDUAL WIRES BREAK ONE AT A TIME TO LESSEN THE SHOCK TO THE GIRDER. STRANDS SHALL BE RELEASED IN A SYMMETRICAL MANNER ABOUT THE GIRDER CENTERLINE STARTING WITH THOSE FURTHEST FROM THE CENTERLINE AND WORKING INWARDS. FOR POST-TENSIONED TEMPORARY TOP STRANDS, ACTIVELY RESTRAIN THE STRAND CHUCKS AT THE GIRDER ENDS DURING CUTTING.
4. WITHIN 24 HOURS OF CUTTING THE TEMPORARY STRANDS, FILL THE BLOCKOUTS WITH A GROUT CONFORMING TO STD. SPEC. 9-20.3(2). REMOVE ALL MOISTURE IN BLOCKOUTS PRIOR TO FILLING THEM WITH GROUT.

CONSTRUCTION SEQUENCE ~ SUPERSTRUCTURE

FILE NAME	004_CONSTRUCTION SEQUENCE.dgn				
BRIDGE DES. ENG.	Leland, AC				
BRIDGE PROJ. ENG.					
SUPERVISOR	Aldrich, B				
DESIGNED BY	Vahedi, M	06/26			
CHECKED BY	Sawahata, D	07/26			
ENTERED BY	Brutzman, N	06/26			
PRELIM. PLAN BY					
ARCH. / SPEC.		REVISION	DATE	BY	

REGION NO. 10 | STATE WASH
JOB NUMBER 26A012
CONTRACT NO.

WSDOT

BRIAN S. ALDRICH — STATE OF WASHINGTON — 37834 — STRUCTURAL ENGINEER — PROFESSIONAL ENGINEER
SEE CERTIFICATION SHEET
DATE
STAMP BOX

AMY C. LELAND — STATE OF WASHINGTON — 39195 — STRUCTURAL ENGINEER — PROFESSIONAL ENGINEER
SEE CERTIFICATION SHEET
DATE
STAMP BOX

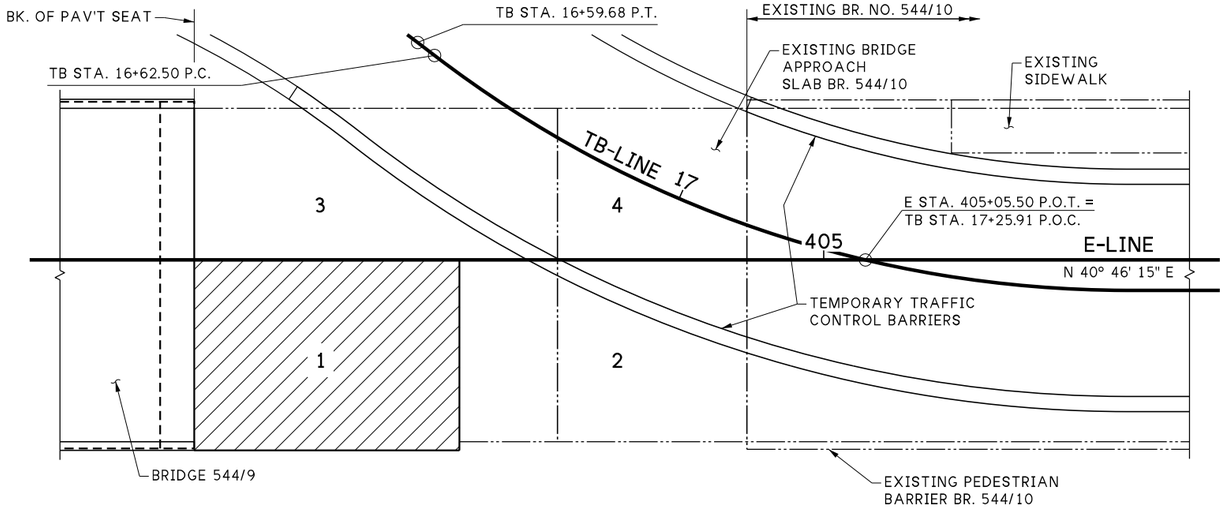
SR 544
NOOKSACK RIVER OVERFLOW CULVERT ER PERMANENT REPAIR
NOOKSACK RIVER BRIDGE NO. 544/9

SUPERSTRUCTURE
CONSTRUCTION SEQUENCE

PLAN REF NO
BA4

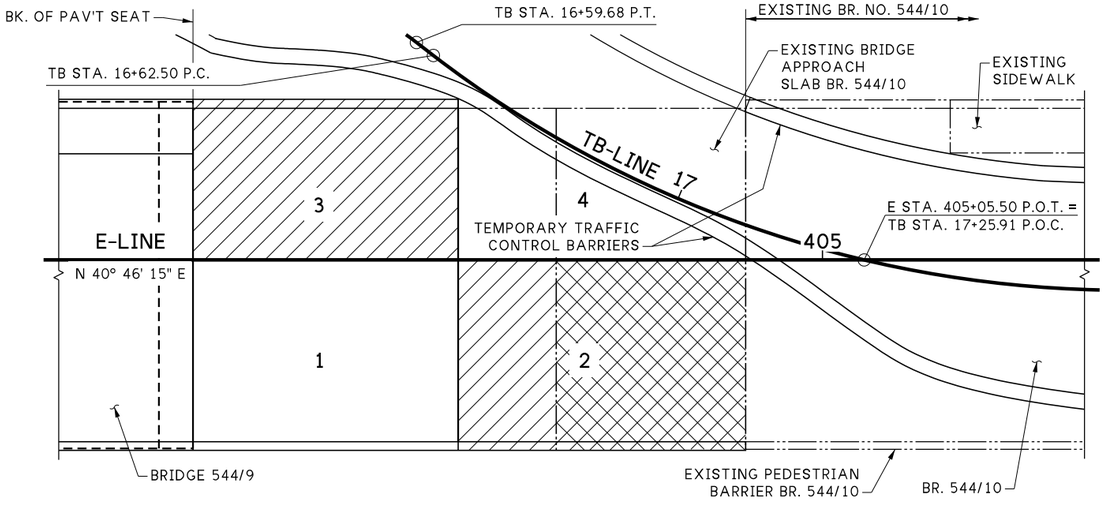
SHEET 58 OF 119 SHEETS

PLOT DATE: 23-Sep-2026 PLOT TIME: 11:33:20 AM PLOTTED BY: BrutzmN FILE PATH: pw://projectstore.wsdot.wa.gov:WSDOT/Documents/_HQ/Bridge & Structures/Bridge Design/_Design Projects/544/BR 544-9/2024_New Bridge_XL6549/_DGN/_Sheets/004_CONSTRUCTION SEQUENCE.dgn



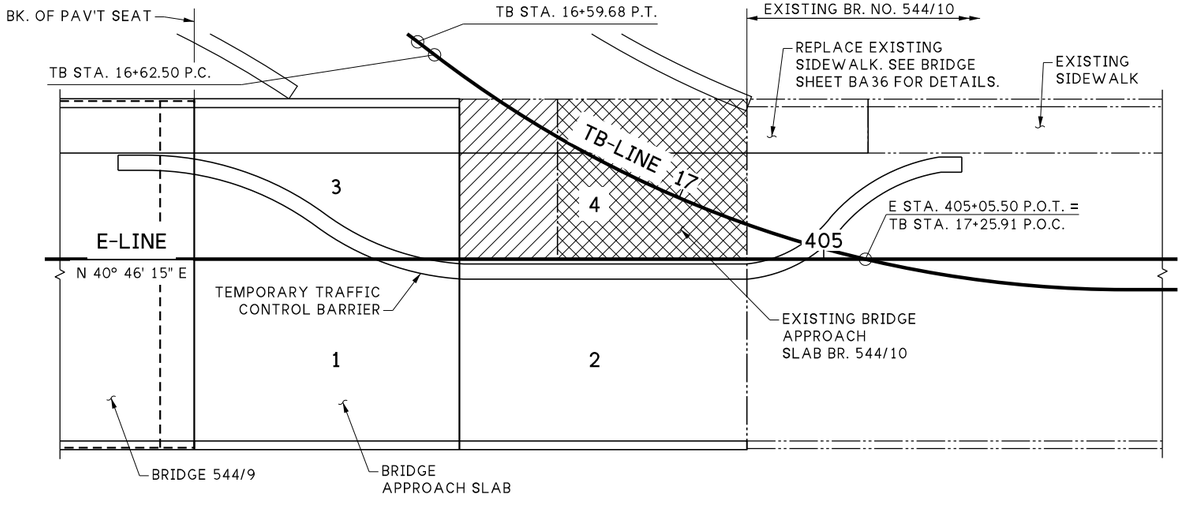
STAGE 1

CONSTRUCT 1ST QUADRANT OF BRIDGE APPROACH SLAB



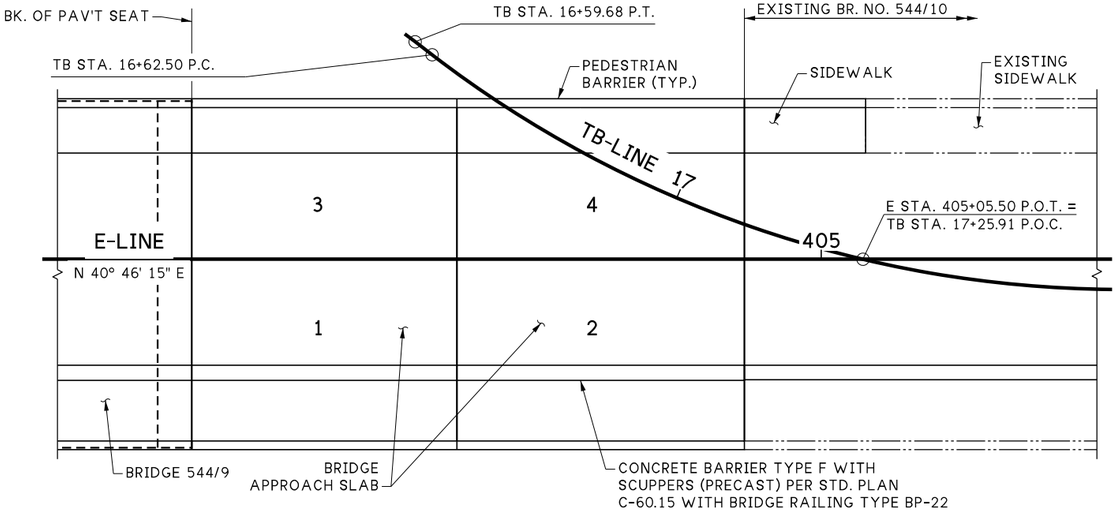
STAGE 2

DEMOLISH AND CONSTRUCT 2ND AND 3RD QUADRANTS OF BRIDGE APPROACH SLAB



STAGE 3

MOVE AND INSTALL TEMPORARY TRAFFIC BARRIERS,
DEMOLISH AND CONSTRUCT 4TH QUADRANT OF APPROACH SLAB



STAGE 4

PLACE PRECAST CONCRETE BARRIER TYPE F

FILE NAME	005_CONSTRUCTION STAGING.dgn				
BRIDGE DES. ENG.	Leland, AC				
BRIDGE PROJ. ENG.					
SUPERVISOR	Aldrich, B				
DESIGNED BY	Vahedi, M	06/26			
CHECKED BY	Sawahata, D	07/26			
ENTERED BY	Brutzman, N	06/26			
PRELIM. PLAN BY					
ARCH. / SPEC.			REVISION	DATE	BY

REGION NO.	STATE
10	WASH
JOB NUMBER	
26A012	
CONTRACT NO.	

WSDOT

BRIAN S. ALDRICH — STATE OF WASHINGTON — 37834 — STRUCTURAL ENGINEER — PROFESSIONAL ENGINEER
SEE CERTIFICATION SHEET
DATE
STAMP BOX

AMY C. LELAND — STATE OF WASHINGTON — 39195 — STRUCTURAL ENGINEER — PROFESSIONAL ENGINEER
SEE CERTIFICATION SHEET
DATE
STAMP BOX

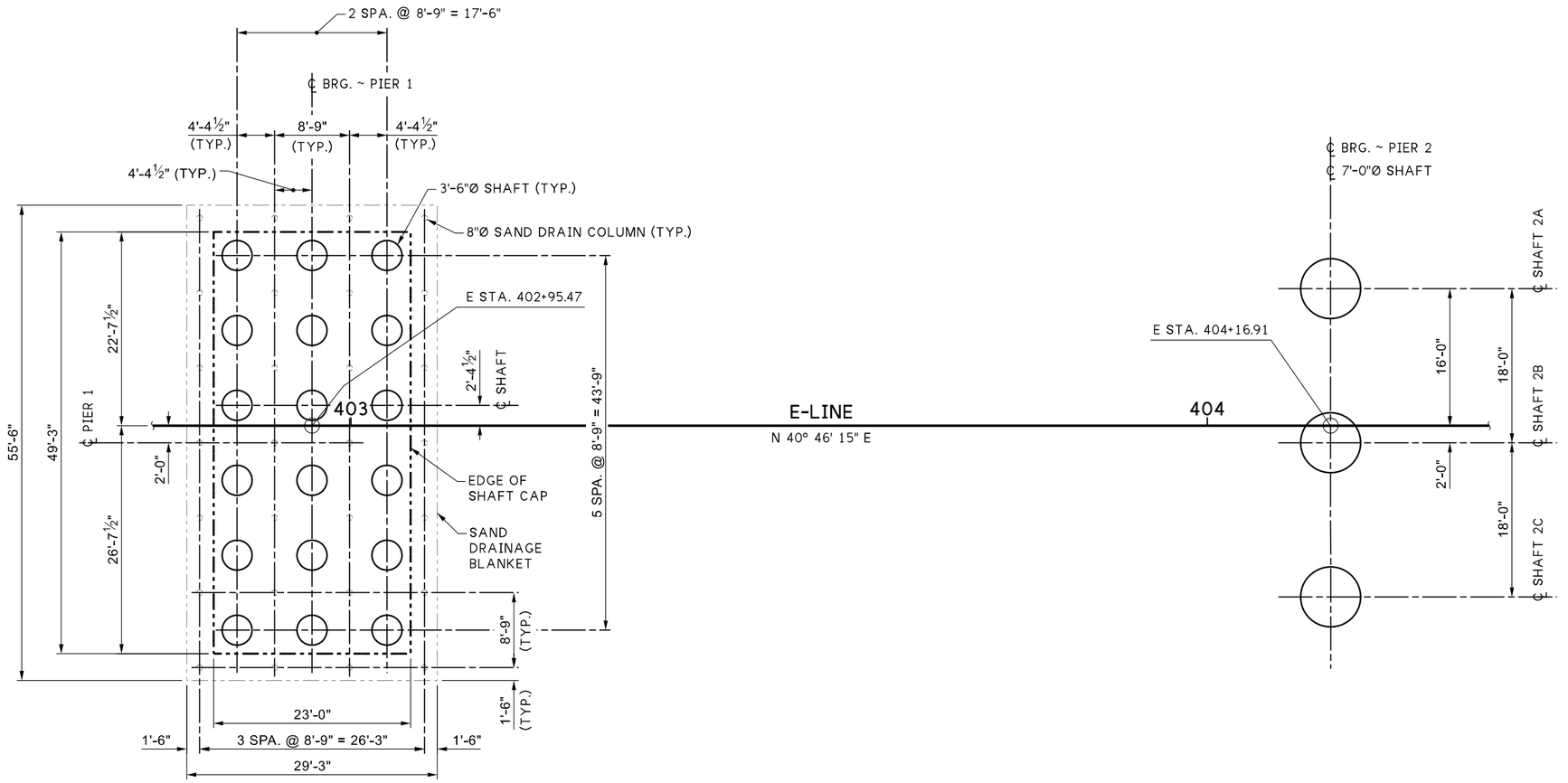
SR 544
NOOKSACK RIVER OVERFLOW CULVERT
ER PERMANENT REPAIR
NOOKSACK RIVER BRIDGE NO. 544/9

APPROACH SLAB
CONSTRUCTION STAGING

PLAN REF NO
BA5

SHEET 59 OF 119 SHEETS

PLOT DATE: 23-Sep-2026 PLOT TIME: 11:33:23 AM PLOTTED BY: BrutzmN FILE PATH: pw://projectstore.wsdot.wa.gov:WSDOT/Documents/_HQ/Bridge & Structures/Bridge Design/_Design Projects/544/BR 544-9/2024_New Bridge_XL6549/_DGN/_Sheets/005_CONSTRUCTION STAGING



FOUNDATION LAYOUT

BEARING OF ALL PIERS IS NORMAL TO E-LINE (N 49° 13' 45" W)

FILE NAME	006_FOUNDATION PLAN.dgn				
BRIDGE DES. ENG.	Leland, AC				
BRIDGE PROJ. ENG.					
SUPERVISOR	Aldrich, B				
DESIGNED BY	Vahedi, M	06/26			
CHECKED BY	Mizumori, A	07/26			
ENTERED BY	Brutzman, N	06/26			
PRELIM. PLAN BY					
ARCH. / SPEC.			REVISION	DATE	BY

REGION NO.	STATE
10	WASH

JOB NUMBER 26A012

CONTRACT NO.

WSDOT

BRIAN S. ALDRICH — STATE OF WASHINGTON — 37834 — STRUCTURAL ENGINEER — PROFESSIONAL ENGINEER

SEE CERTIFICATION SHEET

DATE

STAMP BOX

AMY C. LELAND — STATE OF WASHINGTON — 39195 — STRUCTURAL ENGINEER — PROFESSIONAL ENGINEER

SEE CERTIFICATION SHEET

DATE

STAMP BOX

SR 544
NOOKSACK RIVER OVERFLOW CULVERT
ER PERMANENT REPAIR

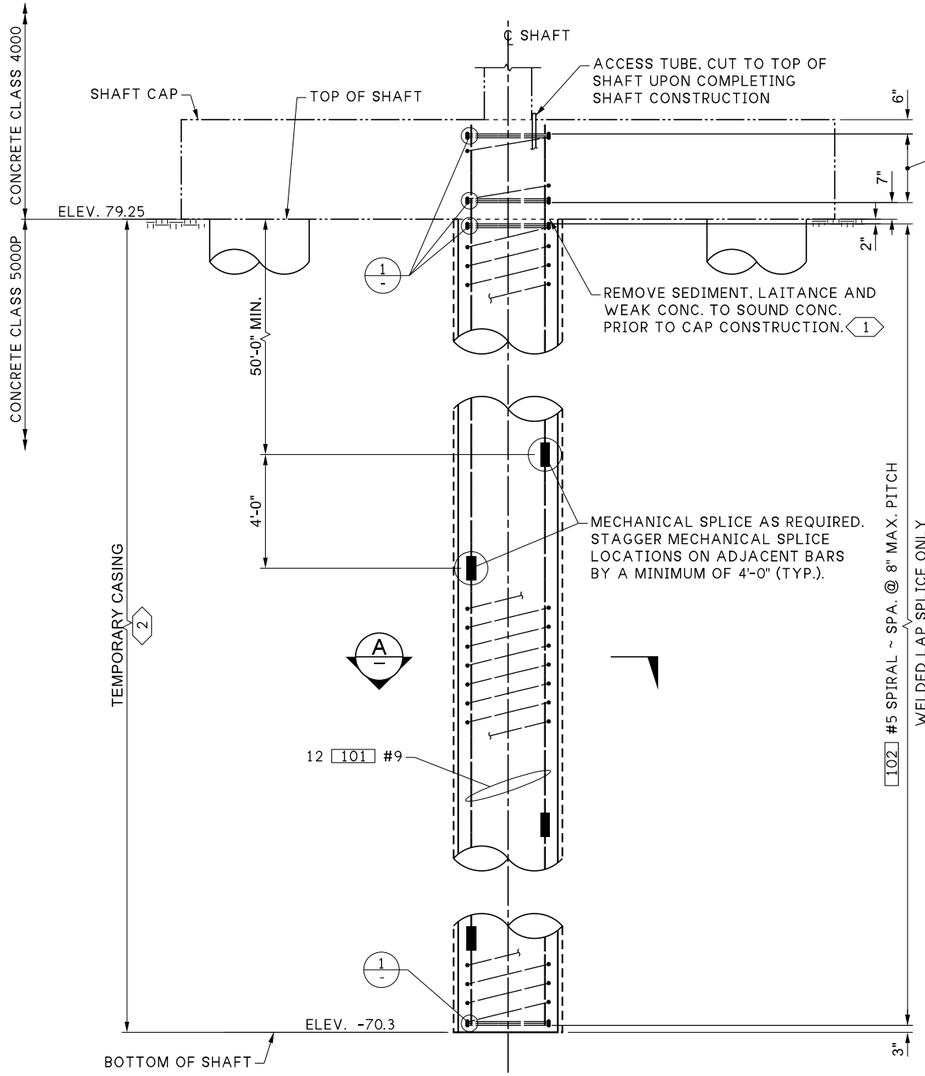
NOOKSACK RIVER BRIDGE NO. 544/9

FOUNDATION LAYOUT

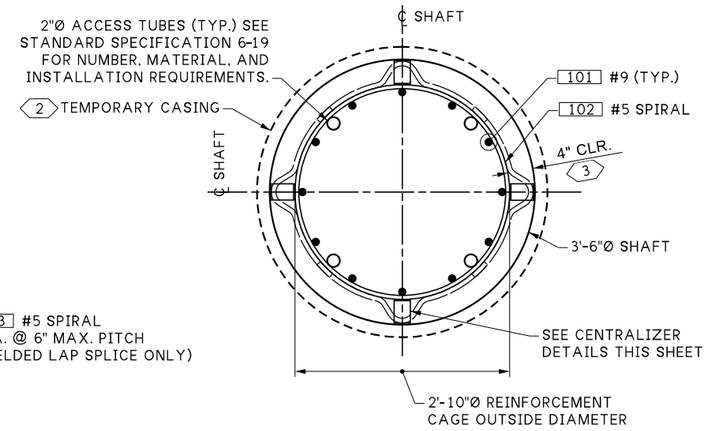
PLAN REF NO. BA6

SHEET 60 OF 119 SHEETS

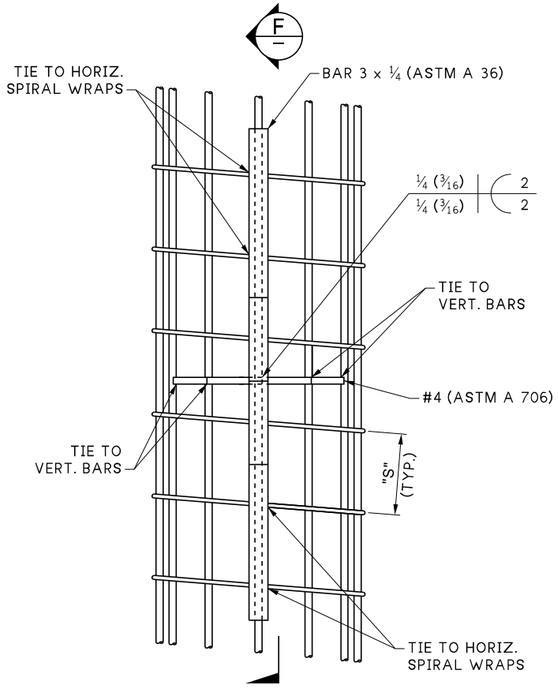
PLOT DATE: 23-Sep-2026 PLOT TIME: 11:33:26 AM PLOTTED BY: BrutzmN FILE PATH: pw://projectstore.wsdot.wa.gov:WSDOT/Documents/_HQ/Bridge & Structures/Bridge Design/_Design Projects/544/BR 544-9/2024_New Bridge_XL6549/_DGN/_Sheets/006_FOUNDATION PLAN.dgn



ELEVATION



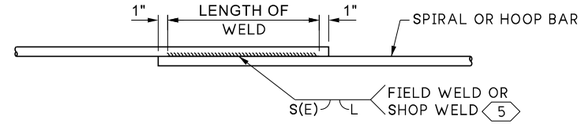
SECTION A



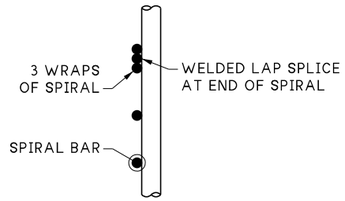
CENTRALIZER DETAIL

6 7 8 9

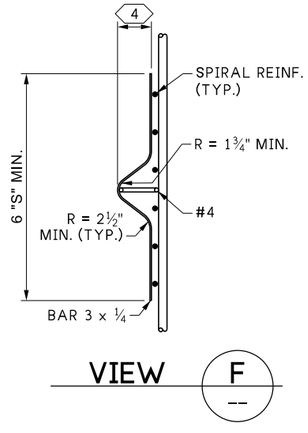
SHAFT SPIRAL OPTIONS			
BAR SIZE	WELD DIMENSIONS (IN.)		
	S	E	LENGTH (L)
#5	5/16	3/16	6



WELDED LAP SPLICE DETAIL



DETAIL 1
SPIRAL TERMINATION



VIEW F

KEY NOTES:

1. CONSTRUCTION JOINT WITH ROUGHENED SURFACE.
2. EXCAVATION IN ADVANCE OF CASING TIP SHALL NOT EXCEED "0" FEET.
3. SEE STD. SPEC. 6-19.3(5)C FOR MINIMUM CONCRETE COVER.
4. MINIMUM CONCRETE COVER MINUS ½".
5. WELDING SHALL MEET THE REQUIREMENTS OF STD. SPEC. 6-02.3(24)E FOR WELD DIMENSIONS, SEE SHAFT SPIRAL OPTIONS TABLE THIS SHEET.
6. CENTRALIZERS SHALL BE EPOXY COATED OR PAINTED WITH PAINT CONFORMING TO STANDARD SPECIFICATION 9-08.1(2)C OR 9-08.1(2)F AFTER FABRICATION.
7. EACH LEG SHALL BE TIED TO TWO (2) VERTICAL BARS OR TWO (2) SPIRAL WRAPS.
8. CAGECASTER® REBAR CAGE SPACERS BY FOUNDATION TECHNOLOGIES MAY BE USED IN LIEU OF DETAIL SHOWN. SPACING REQUIREMENTS SHALL BE PER THE MANUFACTURER'S RECOMMENDATIONS. EACH LEG SHALL BE TIED TO A MINIMUM OF TWO (2) SPIRAL WRAPS OR HOOPS.
9. SEE STANDARD SPECIFICATION 6-19.3(5)B FOR SPACING REQUIREMENTS.

FILE NAME	007_PIER 1 SHAFT DETAILS.dgn		
BRIDGE DES. ENG.	Leland, AC		
BRIDGE PROJ. ENG.			
SUPERVISOR	Aldrich, B		
DESIGNED BY	Vahedi, M	06/26	
CHECKED BY	Mizumori, A	07/26	
ENTERED BY	Brutzman, N	06/26	
PRELIM. PLAN BY			
ARCH. / SPEC.			

REVISION	DATE	BY

REGION NO. 10 | STATE WASH
JOB NUMBER 26A012
CONTRACT NO.

WSDOT

BRIAN S. ALDRICH — STATE OF WASHINGTON — 37834 — STRUCTURAL ENGINEER — PROFESSIONAL ENGINEER
SEE CERTIFICATION SHEET
DATE
STAMP BOX

AMY C. LELAND — STATE OF WASHINGTON — 39195 — STRUCTURAL ENGINEER — PROFESSIONAL ENGINEER
SEE CERTIFICATION SHEET
DATE
STAMP BOX

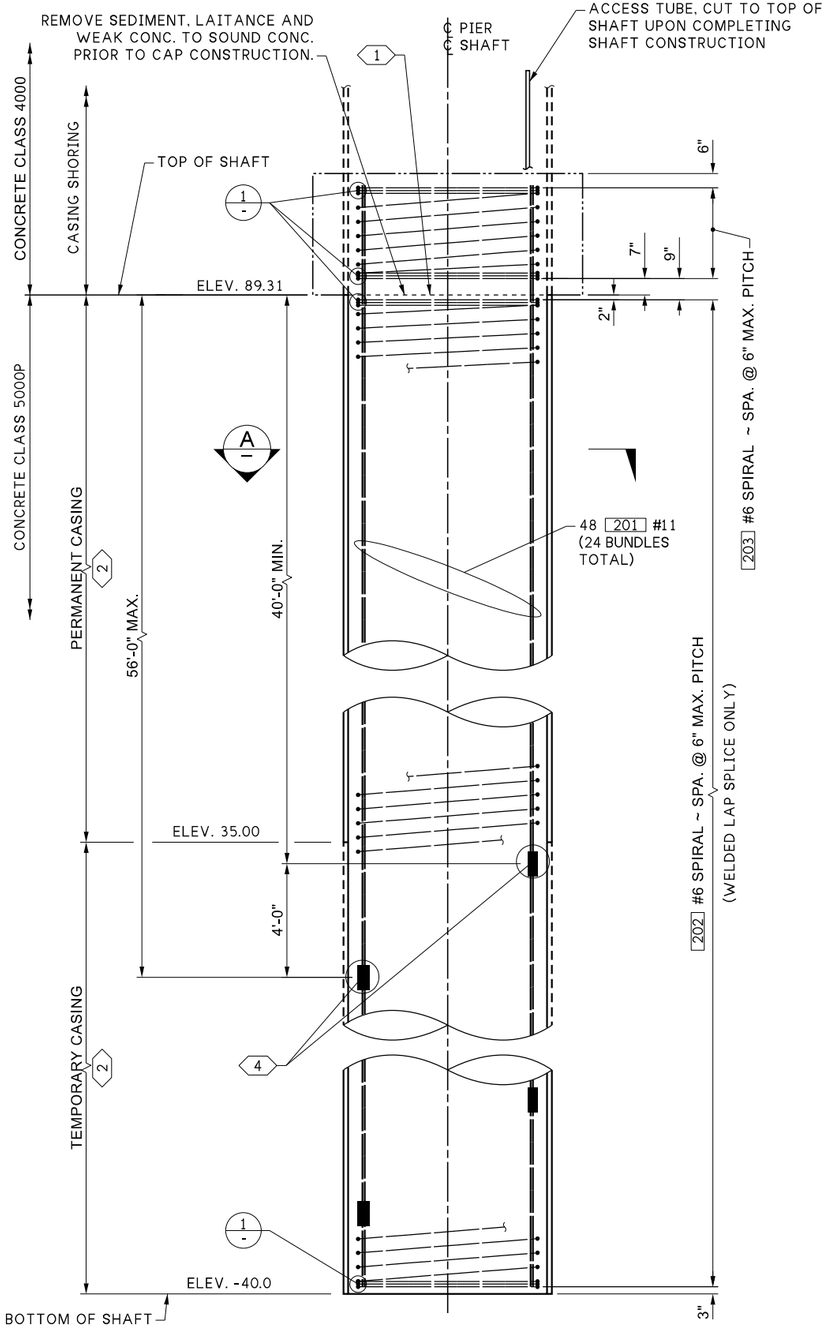
SR 544
NOOKSACK RIVER OVERFLOW CULVERT
ER PERMANENT REPAIR
NOOKSACK RIVER BRIDGE NO. 544/9

PIER 1 SHAFT DETAILS

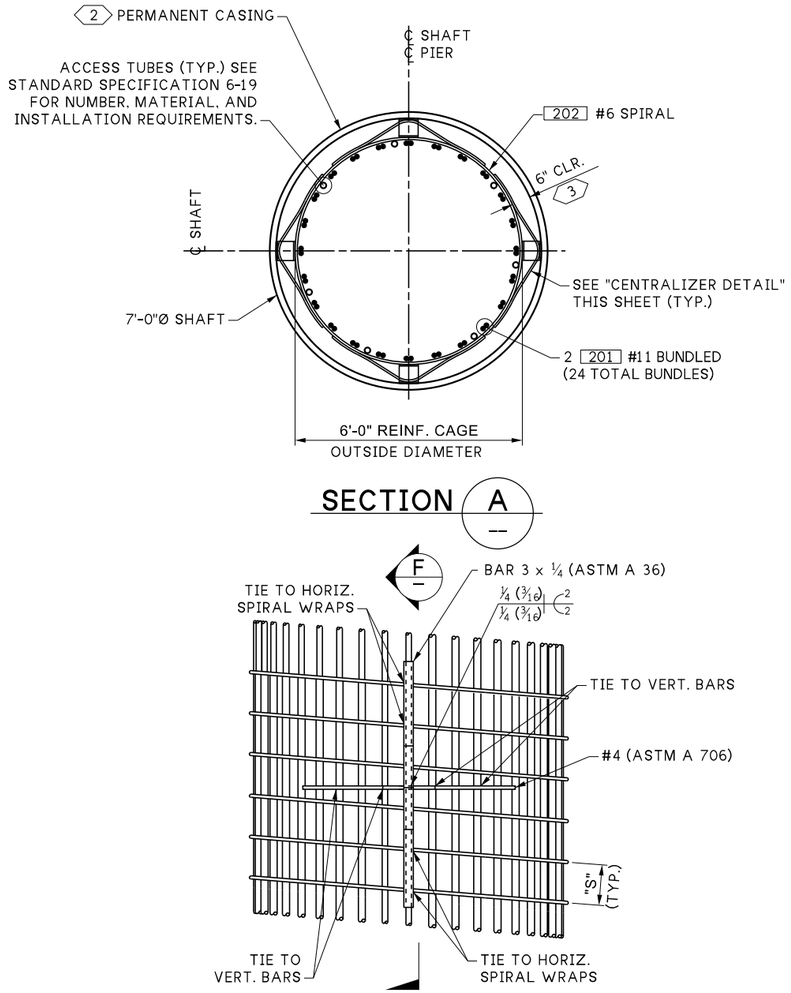
PLAN REF NO
BA7

SHEET 61 OF 119 SHEETS

PLOT DATE: 23-Sep-2026 PLOT TIME: 11:33:29 AM PLOTTED BY: BrutzmN FILE PATH: pw://projectstore.wsdot.wa.gov:WSDOT/Documents/_HQ/Bridge & Structures/Bridge Design/_Design Projects/544/BR 544-9/2024_New Bridge_XL6549/_DGN/_Sheets/007_PIER 1 SHAFT DETAILS.dgn



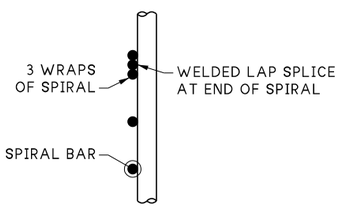
ELEVATION



SECTION A

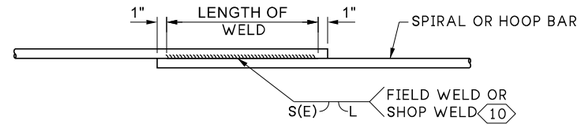
CENTRALIZER DETAIL

5 6 7 8

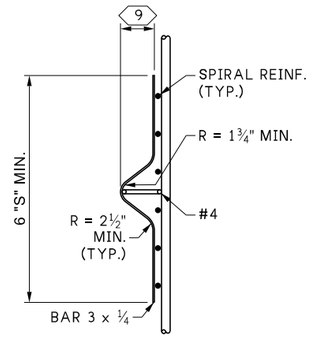


DETAIL 1 — SPIRAL TERMINATION

SHAFT SPIRAL OPTIONS			
BAR SIZE	WELD DIMENSIONS (IN.)		
	S	E	LENGTH (L)
#6	⅜	3/16	6



WELDED LAP SPLICE DETAIL



VIEW F

KEY NOTES:

1. CONSTRUCTION JOINT WITH ROUGHENED SURFACE.
2. EXCAVATION IN ADVANCE OF CASING TIP SHALL NOT EXCEED "0" FEET.
3. SEE STD. SPEC. 6-19.3(5)C. FOR MINIMUM CONCRETE COVER.
4. MECHANICAL SPLICE AS REQUIRED. STAGGER MECHANICAL SPLICE LOCATIONS ON ADJACENT BARS BY A MINIMUM OF 4'-0" (TYP.).
5. SEE STD. SPEC. 6-19.3(5)B FOR SPACING REQUIREMENTS.
6. CENTRALIZERS SHALL BE EPOXY COATED OR PAINTED WITH PAINT CONFORMING TO STANDARD SPECIFICATION 9-08.1(2)C OR 9-08.1(2)F AFTER FABRICATION.
7. EACH LEG SHALL BE TIED TO TWO (2) VERTICAL BARS OR TWO (2) SPIRAL WRAPS.
8. CAGECASTER® REBAR CAGE SPACERS BY FOUNDATION TECHNOLOGIES MAY BE USED IN LIEU OF DETAIL SHOWN. SPACING REQUIREMENTS SHALL BE PER THE MANUFACTURER'S RECOMMENDATIONS. EACH LEG SHALL BE TIED TO A MINIMUM OF TWO (2) SPIRAL WRAPS OR HOOPS.
9. MINIMUM CONCRETE COVER MINUS ½".
10. WELDING SHALL MEET THE REQUIREMENTS OF STD. SPEC. 6-02.3(24)E. FOR WELD DIMENSION, SEE SHAFT SPIRAL OPTIONS TABLE, THIS SHEET.

FILE NAME	010_PIER 2 SHAFT DETAILS 1.dgn				
BRIDGE DES. ENG.	Leland, AC				
BRIDGE PROJ. ENG.					
SUPERVISOR	Aldrich, B				
DESIGNED BY	Vahedi, M	06/26			
CHECKED BY	Mizumori, A	07/26			
ENTERED BY	Wrenn, M	06/26			
PRELIM. PLAN BY					
ARCH. / SPEC.			REVISION	DATE	BY

REGION NO.	STATE
10	WASH
JOB NUMBER	
26A012	
CONTRACT NO.	

WSDOT

BRIAN S. ALDRICH — STATE OF WASHINGTON — 57834 — STRUCTURAL ENGINEER — PROFESSIONAL ENGINEER
SEE CERTIFICATION SHEET
DATE
STAMP BOX

AMY C. LELAND — STATE OF WASHINGTON — 39195 — STRUCTURAL ENGINEER — PROFESSIONAL ENGINEER
SEE CERTIFICATION SHEET
DATE
STAMP BOX

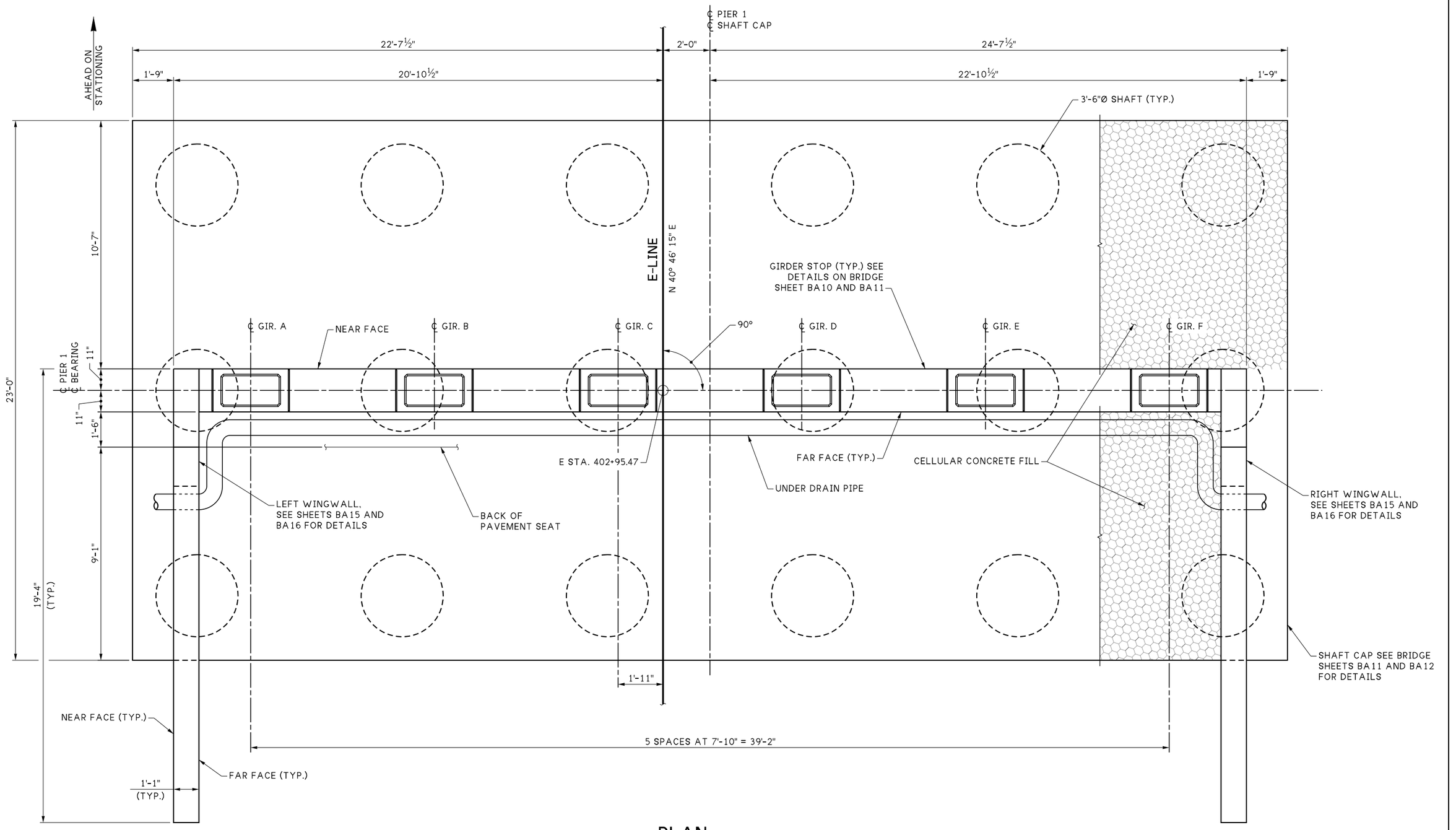
SR 544
NOOKSACK RIVER OVERFLOW CULVERT
ER PERMANENT REPAIR
NOOKSACK RIVER BRIDGE NO. 544/9

PIER 2 SHAFT DETAILS

PLAN REF NO
BA8

SHEET 62 OF 119 SHEETS

PLOT DATE: 23-Sep-2026 PLOT TIME: 11:33:32 AM PLOTTED BY: BrutzmN FILE PATH: pw://projectstore.wsdot.wa.gov:WSDOT/Documents/_HQ/Bridge & Structures/Bridge Design/_Design Projects/544/BR 544-9/2024_New Bridge_XL6549/_DGN/_Sheets/010_PIER 2 SHAFT DETAILS 1.dgn



PLAN

SEE FRAMING PLAN FOR GIRDER SPACING

FILE NAME	040_PIER 1 PLAN.dgn				
BRIDGE DES. ENG.	Leland, AC				
BRIDGE PROJ. ENG.					
SUPERVISOR	Aldrich, B				
DESIGNED BY	Vahedi, M	06/26			
CHECKED BY	Mizumori, A	07/26			
ENTERED BY	Brutzman, N	06/26			
PRELIM. PLAN BY					
ARCH. / SPEC.			REVISION	DATE	BY

REGION NO.	STATE
10	WASH

JOB NUMBER 26A012

CONTRACT NO.

WSDOT

BRIAN S. ALDRICH — STATE OF WASHINGTON — 37834 — STRUCTURAL ENGINEER — PROFESSIONAL ENGINEER

SEE CERTIFICATION SHEET

DATE

STAMP BOX

AMY C. LELAND — STATE OF WASHINGTON — 39195 — STRUCTURAL ENGINEER — PROFESSIONAL ENGINEER

SEE CERTIFICATION SHEET

DATE

STAMP BOX

SR 544
NOOKSACK RIVER OVERFLOW CULVERT
ER PERMANENT REPAIR

NOOKSACK RIVER BRIDGE NO. 544/9

PIER 1
PLAN

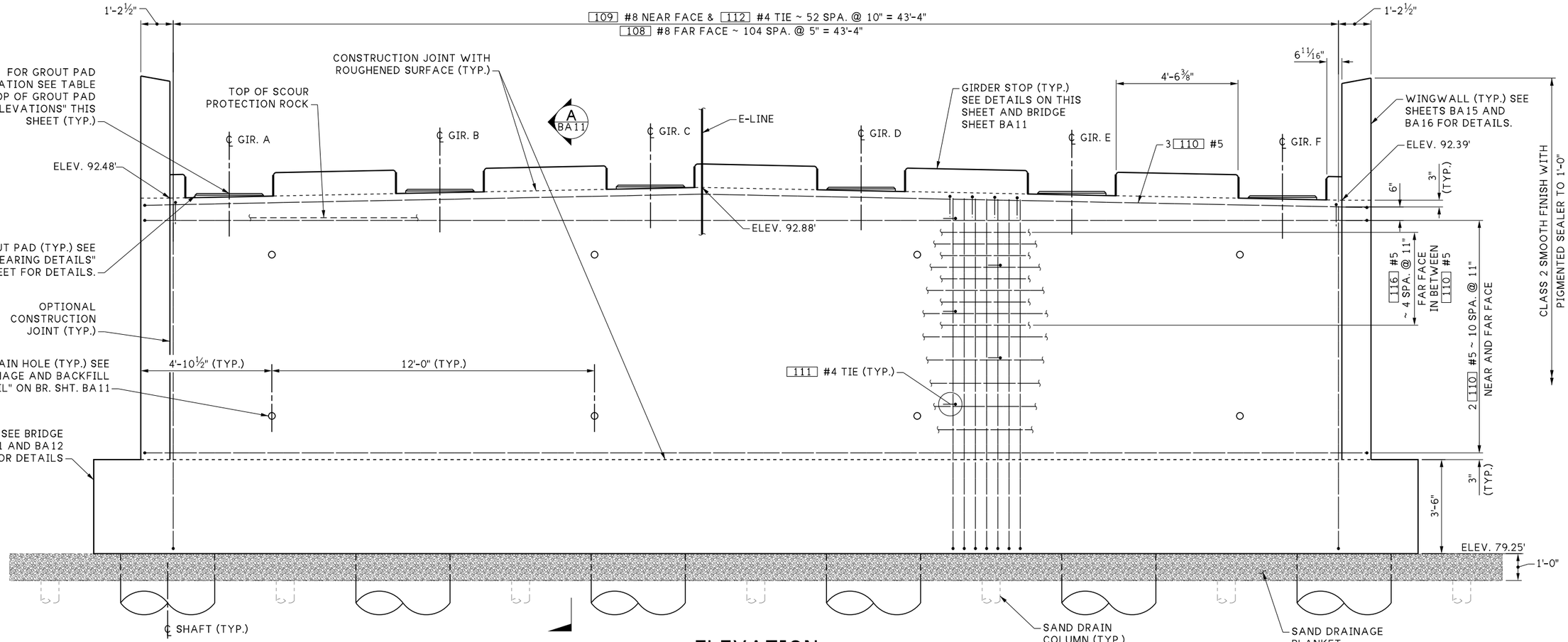
PLAN REF NO
BA9

SHEET 63 OF 119 SHEETS

PLOT DATE: 23-Sep-2026 PLOT TIME: 11:33:35 AM PLOTTED BY: BrutzmN FILE PATH: pw://projectstore.wsdot.wa.gov:WSDOT/Documents/_HQ/Bridge & Structures/Bridge Design/_Design Projects/544/BR 544-9/2024_New Bridge_XL6549/_DGN/_Sheets/040_PIER 1 PLAN.dgn

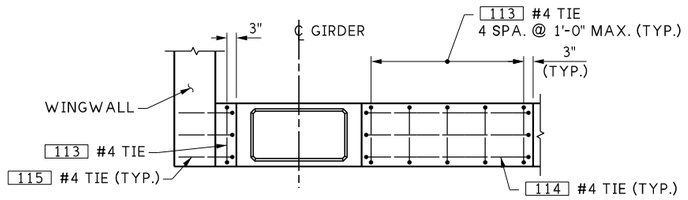
TOP OF GROUT PAD ELEVATIONS

GIRDER	A	B	C	D	E	F
ELEVATION	92.65	92.81	92.97	92.89	92.73	92.57

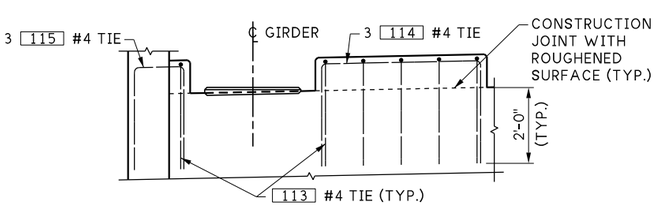


ELEVATION

ELEVATION SHOWN LOOKING AHEAD ON STATION TOWARDS FAR FACE.
ELEVATIONS GIVEN ALONG ℄ BEARING. WINGWALL, GIRDER STOP,
SHAFT CAP, AND SHAFT REINFORCEMENT NOT SHOWN FOR CLARITY.



PLAN



ELEVATION

GIRDER STOP DETAILS

REINFORCEMENT NOTES:

1. MIN. LAP SPLICE LENGTH UNLESS NOTED:
   #4 - 2'-0", #5 - 2'-6", #6 - 3'-0", #7 - 4'-0"
2. DO NOT SPLICE MORE THAN 50% OF BARS AT ANY ONE LOCATION UNLESS AS NOTED. STAGGER SPLICES A MINIMUM OF 2'-6".

FILE NAME	041_PIER 1 ELEVATION.dgn				
BRIDGE DES. ENG.	Leland, AC				
BRIDGE PROJ. ENG.					
SUPERVISOR	Aldrich, B				
DESIGNED BY	Vahedi, M	06/26			
CHECKED BY	Mizumori, A	07/26			
ENTERED BY	Brutzman, N	06/26			
PRELIM. PLAN BY					
ARCH. / SPEC.			REVISION	DATE	BY

REGION NO.	STATE
10	WASH
JOB NUMBER	
26A012	
CONTRACT NO.	

WSDOT

BRIAN S. ALDRICH — STATE OF WASHINGTON — 37834 — AGRICULTURAL ENGINEER — PROFESSIONAL ENGINEER
SEE CERTIFICATION SHEET
DATE
STAMP BOX

AMY C. LELAND — STATE OF WASHINGTON — 39195 — AGRICULTURAL ENGINEER — PROFESSIONAL ENGINEER
SEE CERTIFICATION SHEET
DATE
STAMP BOX

SR 544
NOOKSACK RIVER OVERFLOW CULVERT
ER PERMANENT REPAIR
NOOKSACK RIVER BRIDGE NO. 544/9

PIER 1
ELEVATION

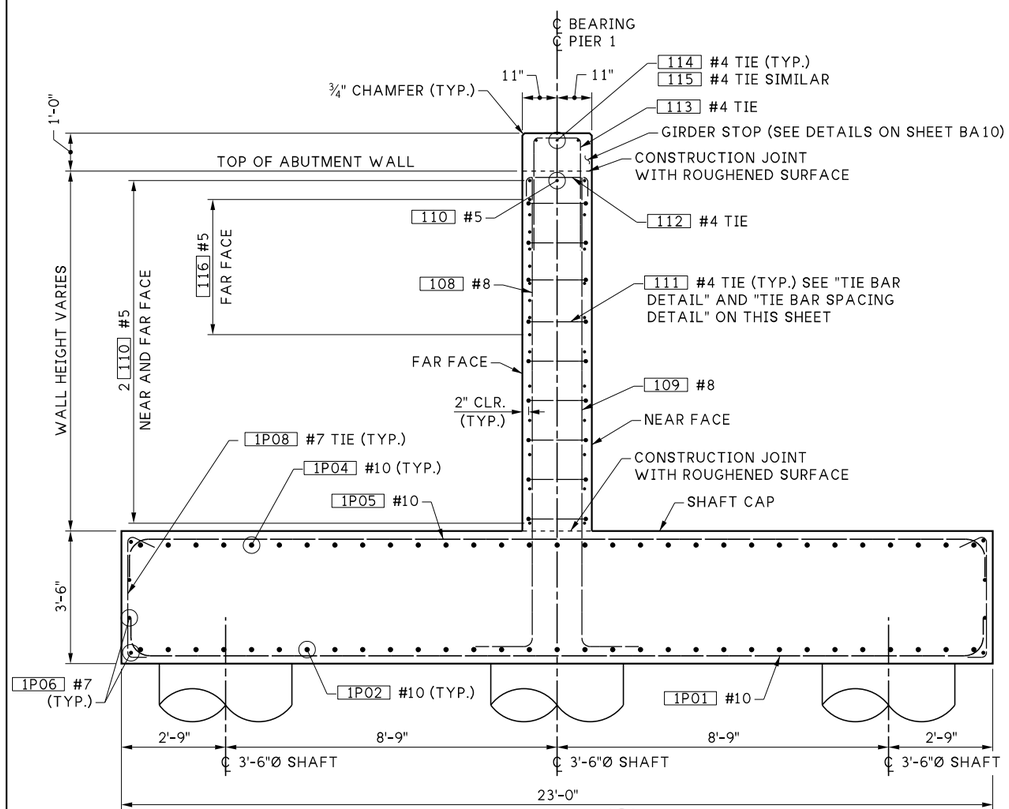
PLAN REF NO
BA10

SHEET 64 OF 119 SHEETS

PLOT DATE: 23-Sep-2026 PLOT TIME: 11:33:38 AM PLOTTED BY: BrutzmN FILE PATH: pw://projectstore.wsdot.wa.gov:WSDOT/Documents/_HQ/Bridge & Structures/Bridge Design/_Design Projects/544/BR 544-9/2024_New Bridge_XL6549/_DGN/_Sheets/041_PIER 1 ELEVATION.dgn

PIER 1 FOUNDATION CONSTRUCTION SEQUENCE:

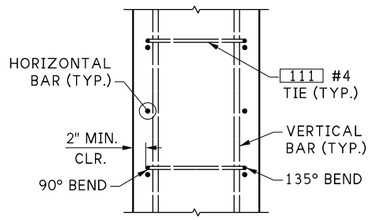
1. EXCAVATE AND CONSTRUCT THE SHAFTS. INSTALL SAND DRAIN COLUMNS FROM DAMAGE, DISTURBANCE, AND CONTAMINATION DURING SHAFT AND SHAFT CAP CONSTRUCTION.
2. CONSTRUCT THE 12-INCH-THICK SAND DRAINAGE LAYER BENEATH THE SHAFT CAP. PROTECT THE SAND DRAINAGE LAYER FROM CONTAMINATION, AND DISPLACEMENT DURING SUBSEQUENT CONSTRUCTION.
3. CONSTRUCT THE SHAFT CAP. THE CONSTRUCTION METHOD SHALL PREVENT SHAFT CAP CONCRETE, CEMENT PASTE, GROUT, OR OTHER CONSTRUCTION MATERIALS FROM CONTAMINATING, CLOGGING, OR OTHERWISE IMPAIRING THE FUNCTION OF THE SAND DRAINAGE LAYER.
4. AFTER THE SHAFT CAP HAS ACHIEVED THE MINIMUM CONCRETE COMPRESSIVE STRENGTH STATED IN THE SPECIAL PROVISIONS, CONSTRUCT THE SHAFT PRE-LOADING AS REQUIRED IN THE SPECIAL PROVISIONS.
5. MONITOR VERTICAL SETTLEMENT OF THE FOUNDATION AS REQUIRED IN THE SPECIAL PROVISIONS.
6. THE CONTRACTOR SHALL SUBMIT SHAFT SETTLEMENT MONITORING DATA TO THE ENGINEER AS REQUIRED IN THE SPECIAL PROVISIONS.
7. REMOVE THE SHAFT PRE-LOADING WHEN DIRECTED BY THE ENGINEER.
8. AFTER THE SHAFT SETTLEMENT MONITORING IS COMPLETE, THE ENGINEER WILL PROVIDE THE CONTRACTOR WITH REVISED BRIDGE ELEVATIONS TO CONSTRUCT THE REMAINING WORK AT PIER 1. THE CONTRACTOR SHALL TRIM OR EXTEND REINFORCING AS NEEDED TO CONFORM TO THE REVISED ELEVATIONS.



SECTION A

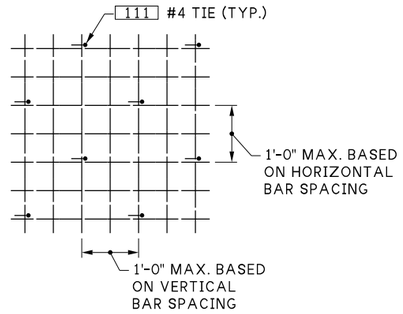
SHAFT REINFORCING NOT SHOWN.

BA10

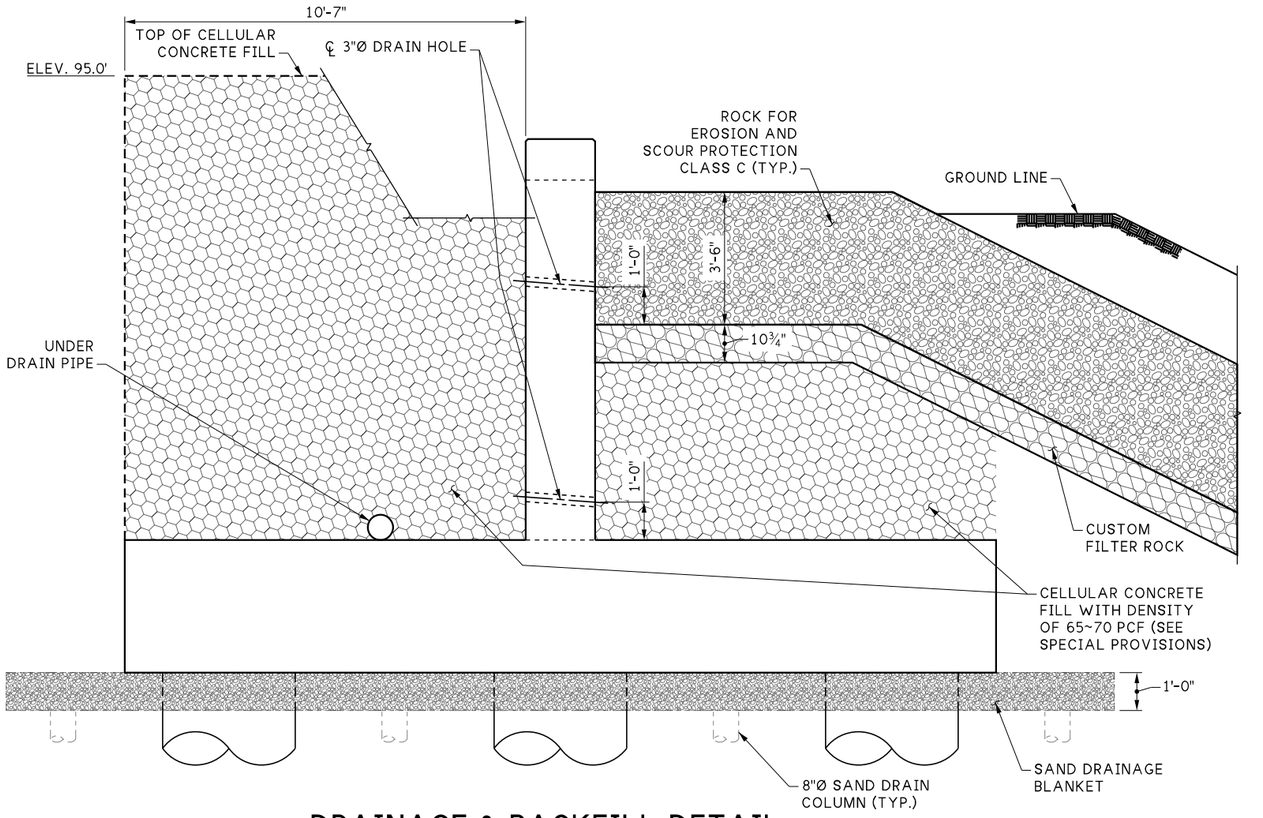


TIE BAR DETAIL

ALTERNATE 135° HOOK EVERY OTHER TIE BAR



TIE BAR SPACING DETAIL



DRAINAGE & BACKFILL DETAIL

FILE NAME	042_PIER 1 DETAILS 1.dgn				
BRIDGE DES. ENG.	Leland, AC				
BRIDGE PROJ. ENG.					
SUPERVISOR	Aldrich, B				
DESIGNED BY	Vahedi, M	06/26			
CHECKED BY	Mizumori, A	07/26			
ENTERED BY	Brutzman, N	06/26			
PRELIM. PLAN BY					
ARCH. / SPEC.			REVISION	DATE	BY

REGION NO.	STATE
10	WASH
JOB NUMBER	
26A012	
CONTRACT NO.	

WSDOT

BRIAN S. ALDRICH — STATE OF WASHINGTON — 37834 — AGRICULTURAL ENGINEER — PROFESSIONAL ENGINEER
SEE CERTIFICATION SHEET
DATE
STAMP BOX

AMY C. LELAND — STATE OF WASHINGTON — 39195 — AGRICULTURAL ENGINEER — PROFESSIONAL ENGINEER
SEE CERTIFICATION SHEET
DATE
STAMP BOX

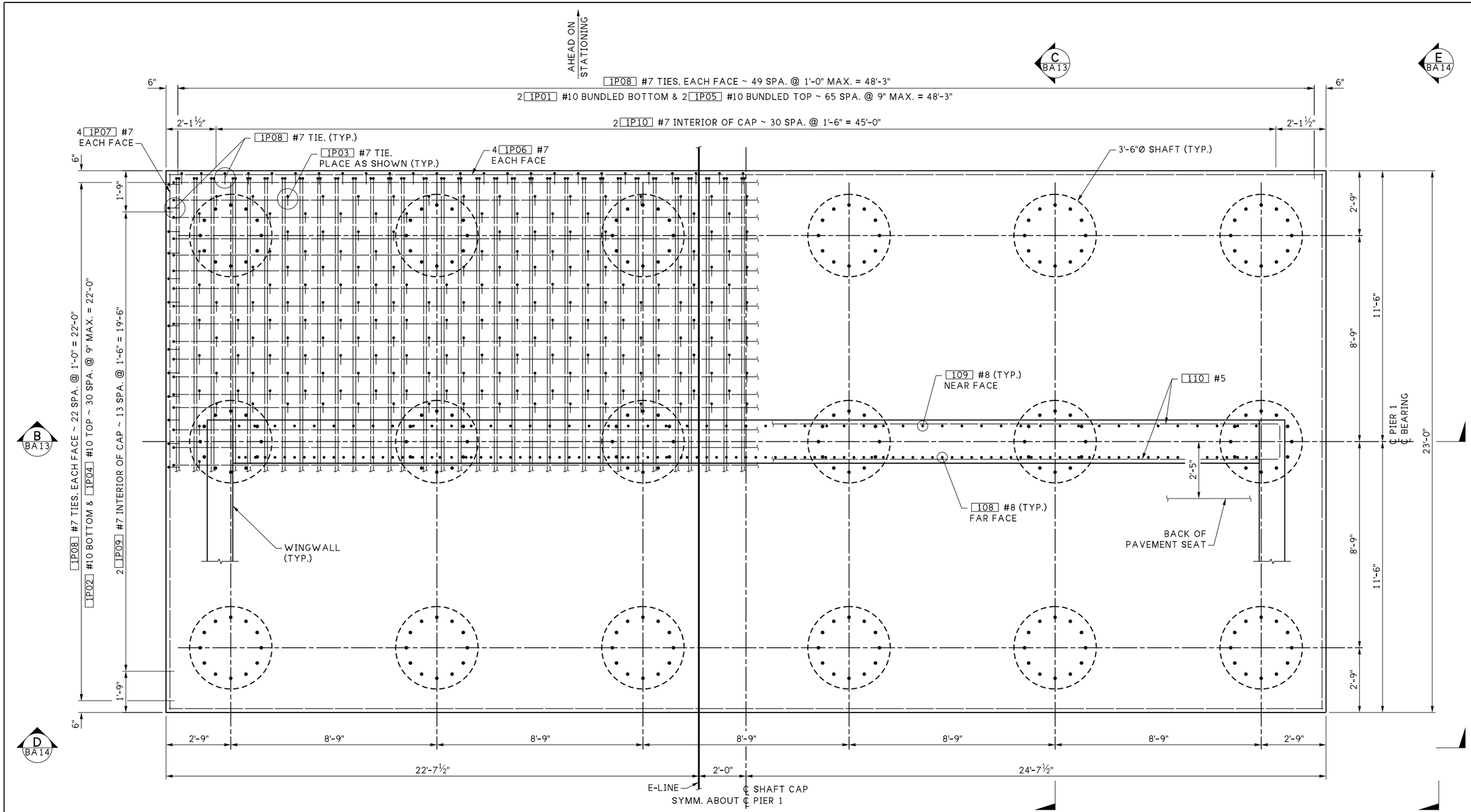
SR 544
NOOKSACK RIVER OVERFLOW CULVERT
ER PERMANENT REPAIR
NOOKSACK RIVER BRIDGE NO. 544/9

PIER 1
DETAILS 1 OF 6

PLAN REF NO
BA11

SHEET 65 OF 119 SHEETS

PLOT DATE: 23-Sep-2026 PLOT TIME: 11:33:41 AM PLOTTED BY: BrutzmN FILE PATH: pw://projectstore.wsdot.wa.gov:WSDOT/Documents/_HQ/Bridge & Structures/Bridge Design/_Design Projects/544/BR 544-9/2024_New Bridge_XL6549/_DGN/_Sheets/042_PIER 1 DETAILS 1.dgn



PLAN - REINFORCEMENT

ADJUST ABUTMENT WALL AND SHAFT CAP REINFORCEMENT AS NECESSARY TO AVOID INTERFERENCE WITH SHAFT REINFORCEMENT.

FILE NAME	043_PIER 1 DETAILS 2.dgn				
BRIDGE DES. ENG.	Leland, AC				
BRIDGE PROJ. ENG.					
SUPERVISOR	Aldrich, B				
DESIGNED BY	Vahedi, M	06/26			
CHECKED BY	Mizumori, A	07/26			
ENTERED BY	Brutzman, N	06/26			
PRELIM. PLAN BY					
ARCH. / SPEC.			REVISION	DATE	BY

REGION NO.	STATE
10	WASH
JOB NUMBER	
26A012	
CONTRACT NO.	

WSDOT

BRIAN S. ALDRICH — STATE OF WASHINGTON — 37634 — PROFESSIONAL ENGINEER
SEE CERTIFICATION SHEET
DATE
STAMP BOX

AMY C. LELAND — STATE OF WASHINGTON — 39195 — PROFESSIONAL ENGINEER
SEE CERTIFICATION SHEET
DATE
STAMP BOX

SR 544
NOOKSACK RIVER OVERFLOW CULVERT
ER PERMANENT REPAIR
NOOKSACK RIVER BRIDGE NO. 544/9

PIER 1
DETAILS 2 OF 6

PLAN REF NO
BA12

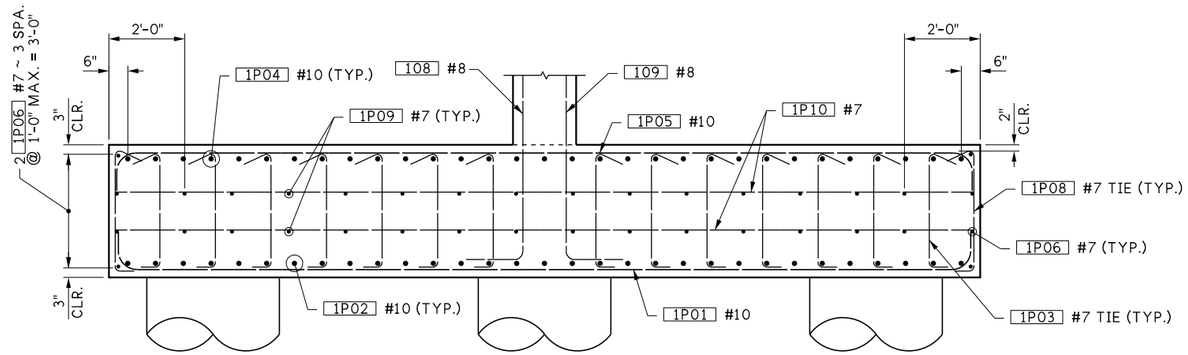
SHEET 66 OF 119 SHEETS

PLOT DATE: 23-Sep-2026 PLOT TIME: 11:33:44 AM PLOTTED BY: BrutzmN FILE PATH: pw://projectstore.wsdot.wa.gov:WSDOT/Documents/_HQ/Bridge & Structures/Bridge Design/_Design Projects/544/BR 544-9/2024_New Bridge_XL6549/_DGN/_Sheets/043_PIER 1 DETAILS 2.dgn

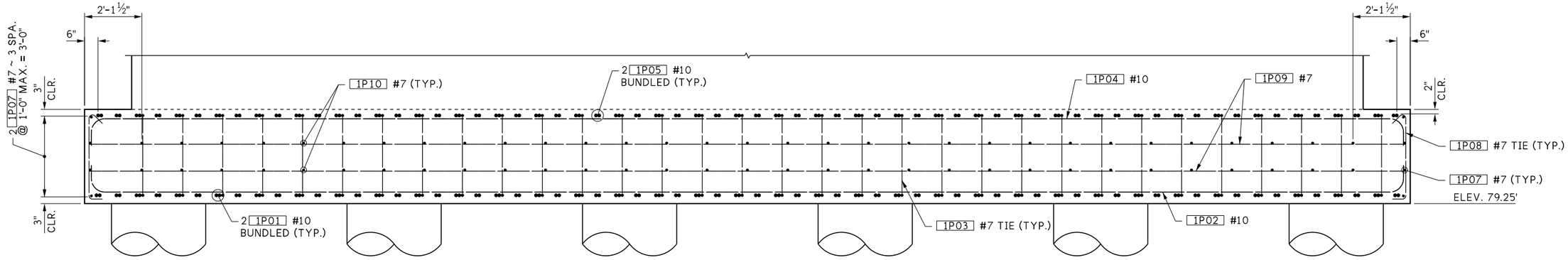
REINFORCEMENT NOTES:

1. MIN. LAP SPLICE LENGTH UNLESS NOTED:
   #4 - 2'-0", #5 - 2'-6", #6 - 3'-0", #7 - 4'-0"

2. DO NOT SPLICE MORE THAN 50% OF BARS AT ANY ONE LOCATION UNLESS AS NOTED. STAGGER SPLICES A MINIMUM OF 2'-6".



SECTION C
BA12



SECTION B
BA12

FILE NAME	044_PIER 1 DETAILS 3.dgn				
BRIDGE DES. ENG.	Leland, AC				
BRIDGE PROJ. ENG.					
SUPERVISOR	Aldrich, B				
DESIGNED BY	Vahedi, M	06/26			
CHECKED BY	Mizumori, A	07/26			
ENTERED BY	Brutzman, N	06/26			
PRELIM. PLAN BY					
ARCH. / SPEC.			REVISION	DATE	BY

REGION NO.	STATE
10	WASH
JOB NUMBER	
26A012	
CONTRACT NO.	

WSDOT

BRIAN S. ALDRICH — STATE OF WASHINGTON — 37834 — PROFESSIONAL ENGINEER
SEE CERTIFICATION SHEET
DATE
STAMP BOX

AMY C. LELAND — STATE OF WASHINGTON — 39195 — PROFESSIONAL ENGINEER
SEE CERTIFICATION SHEET
DATE
STAMP BOX

SR 544
NOOKSACK RIVER OVERFLOW CULVERT
ER PERMANENT REPAIR
NOOKSACK RIVER BRIDGE NO. 544/9

PIER 1
DETAILS 3 OF 6

PLAN REF NO
BA13

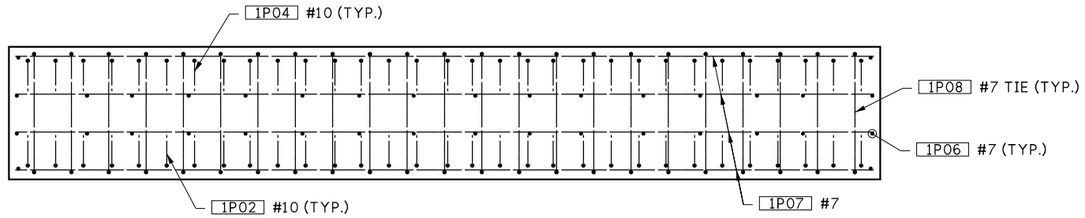
SHEET 67 OF 119 SHEETS

PLOT DATE: 23-Sep-2026 PLOT TIME: 11:33:47 AM PLOTTED BY: BrutzmN FILE PATH: pw://projectstore.wsdot.wa.gov:WSDOT/Documents/_HQ/Bridge & Structures/Bridge Design/_Design Projects/544/BR 544-9/2024_New Bridge_XL6549/_DGN/_Sheets/044_PIER 1 DETAILS 3.dgn

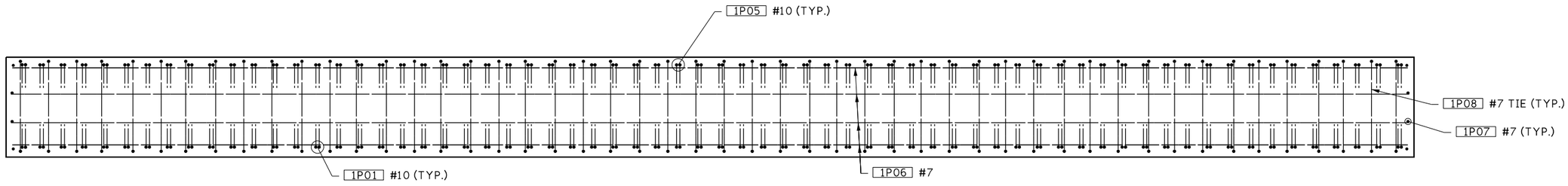
REINFORCEMENT NOTES:

1. MIN. LAP SPLICE LENGTH UNLESS NOTED:
   #4 - 2'-0", #5 - 2'-6", #6 - 3'-0", #7 - 4'-0"

2. DO NOT SPLICE MORE THAN 50% OF BARS AT ANY ONE LOCATION UNLESS AS NOTED. STAGGER SPLICES A MINIMUM OF 2'-6".



SECTION E
BA12



SECTION D
BA12

FILE NAME	045_PIER 1 DETAILS 4.dgn				
BRIDGE DES. ENG.	Leland, AC				
BRIDGE PROJ. ENG.					
SUPERVISOR	Aldrich, B				
DESIGNED BY	Vahedi, M	06/26			
CHECKED BY	Mizumori, A	07/26			
ENTERED BY	Brutzman, N	06/26			
PRELIM. PLAN BY					
ARCH. / SPEC.			REVISION	DATE	BY

REGION NO.	STATE
10	WASH

JOB NUMBER 26A012

CONTRACT NO.

WSDOT

BRIAN S. ALDRICH — STATE OF WASHINGTON — 37834 — STRUCTURAL ENGINEER — PROFESSIONAL ENGINEER
SEE CERTIFICATION SHEET
DATE
STAMP BOX

AMY C. LELAND — STATE OF WASHINGTON — 39195 — STRUCTURAL ENGINEER — PROFESSIONAL ENGINEER
SEE CERTIFICATION SHEET
DATE
STAMP BOX

SR 544
NOOKSACK RIVER OVERFLOW CULVERT
ER PERMANENT REPAIR
NOOKSACK RIVER BRIDGE NO. 544/9

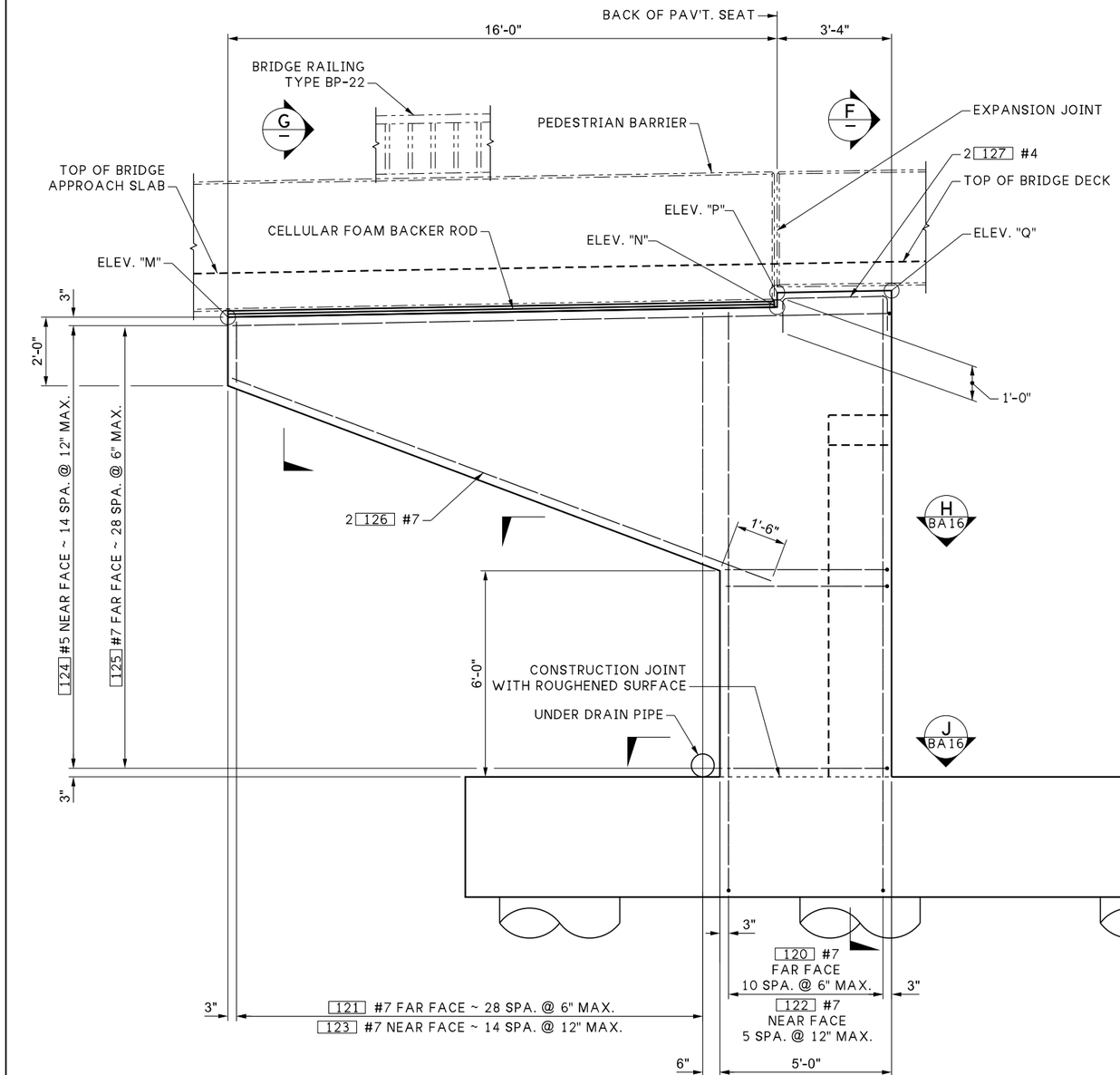
PIER 1
DETAILS 4 OF 6

PLAN REF NO
BA14

SHEET 68 OF 119 SHEETS

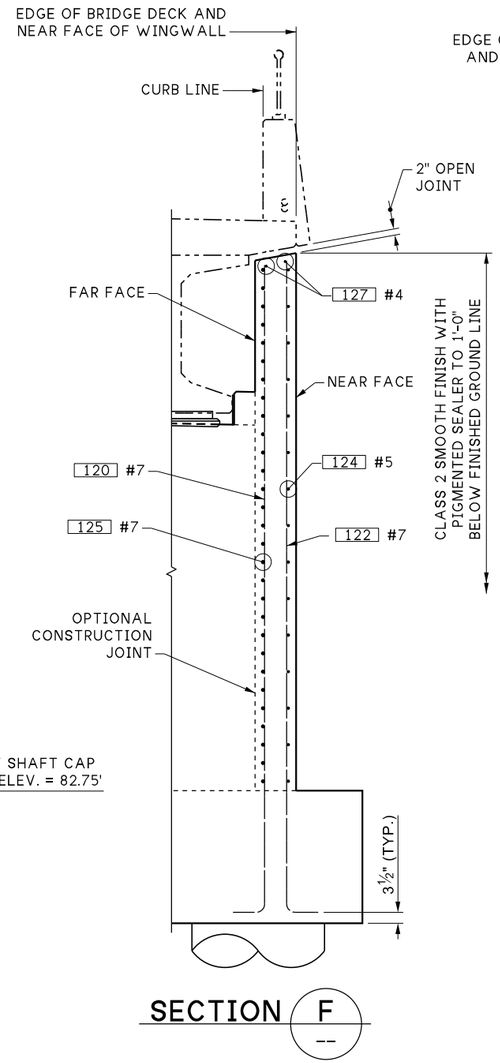
PLOT DATE: 23-Sep-2026 PLOT TIME: 11:33:50 AM PLOTTED BY: BrutzmN FILE PATH: pw://projectstore.wsdot.wa.gov:WSDOT/Documents/_HQ/Bridge & Structures/Bridge Design/_Design Projects/544/BR 544-9/2024_New Bridge_XL6549/_DGN/_Sheets/045_PIER 1 DETAILS 4.dgn

WINGWALL LOCATION	ELEVATION POINT AT TOP OF NEAR FACE			
	M	N	P	Q
PIER 1 RIGHT	96.30	96.49	96.91	96.95
PIER 1 LEFT	96.38	96.57	96.99	97.03

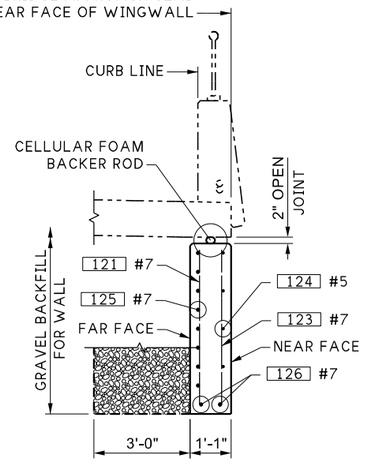


ELEVATION WINGWALL

RIGHT SIDE SHOWN, LEFT SIDE SIMILAR.
PIER WALL AND SHAFT CAP REINFORCEMENT NOT SHOWN FOR CLARITY



SECTION G
--



SECTION F
--

FILE NAME	046_PIER 1 DETAILS 5.dgn				
BRIDGE DES. ENG.	Leland, AC				
BRIDGE PROJ. ENG.					
SUPERVISOR	Aldrich, B				
DESIGNED BY	Vahedi, M	06/26			
CHECKED BY	Mizumori, A	07/26			
ENTERED BY	Brutzman, N	06/26			
PRELIM. PLAN BY					
ARCH. / SPEC.			REVISION	DATE	BY

REGION NO.	STATE
10	WASH

JOB NUMBER 26A012

CONTRACT NO.

WSDOT

BRIAN S. ALDRICH — STATE OF WASHINGTON — 57834 — PROFESSIONAL ENGINEER
SEE CERTIFICATION SHEET
DATE
STAMP BOX

AMY C. LELAND — STATE OF WASHINGTON — 39195 — PROFESSIONAL ENGINEER
SEE CERTIFICATION SHEET
DATE
STAMP BOX

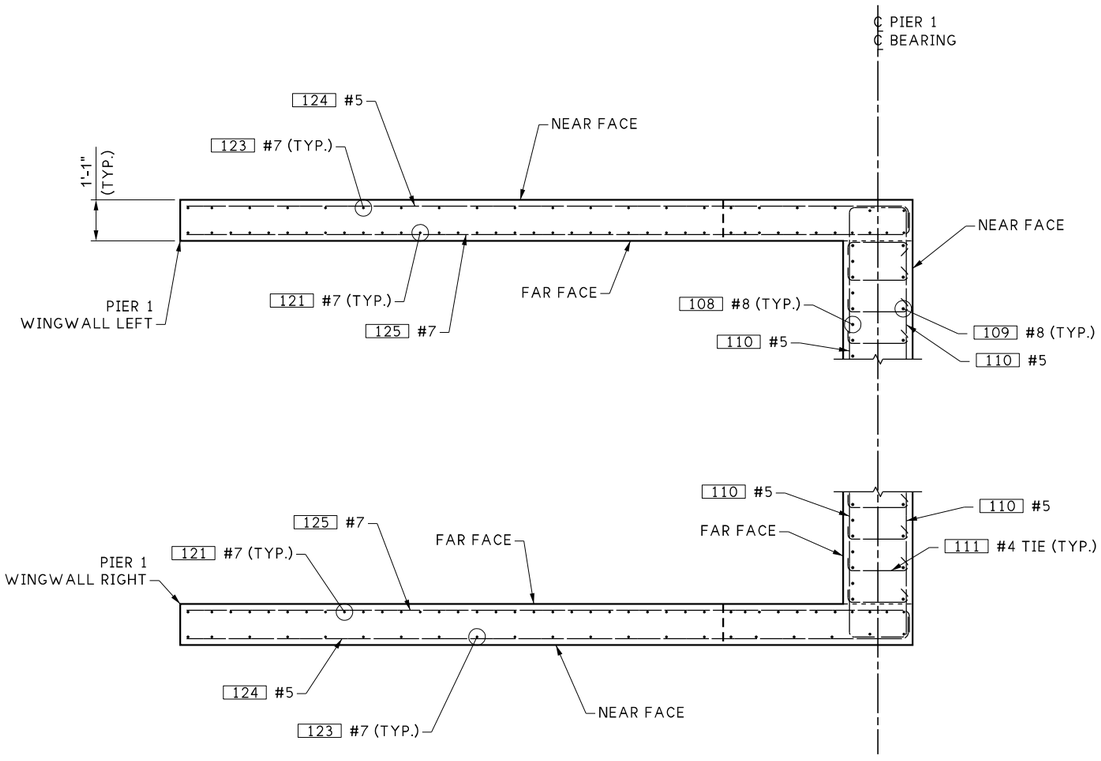
SR 544
NOOKSACK RIVER OVERFLOW CULVERT
ER PERMANENT REPAIR
NOOKSACK RIVER BRIDGE NO. 544/9

PIER 1
DETAILS 5 OF 6

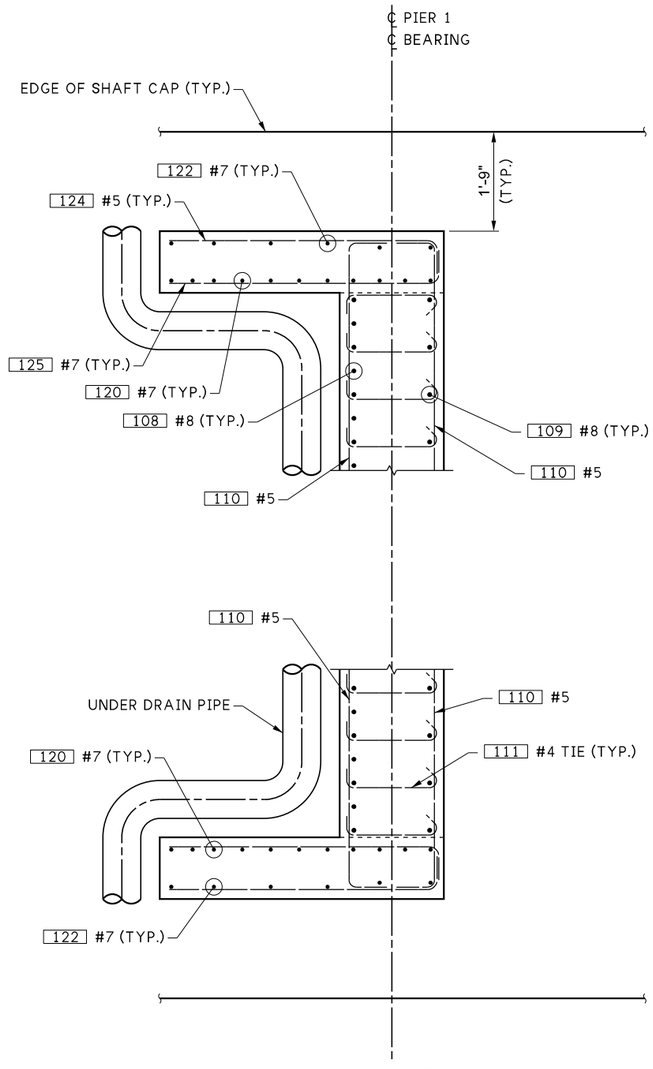
PLAN REF NO
BA15

SHEET 69 OF 119 SHEETS

PLOT DATE: 23-Sep-2026 PLOT TIME: 11:33:53 AM PLOTTED BY: BrutzmN FILE PATH: pw://projectstore.wsdot.wa.gov:WSDOT/Documents/_HQ/Bridge & Structures/Bridge Design/_Design Projects/544/BR 544-9/2024_New Bridge_XL6549/_DGN/_Sheets/046_PIER 1 DETAILS 5.dgn



SECTION H
BA15



SECTION J
BA15

FILE NAME	047_WINGWALL PIER 1 DETAILS 2.dgn				
BRIDGE DES. ENG.	Leland, AC				
BRIDGE PROJ. ENG.					
SUPERVISOR	Aldrich, B				
DESIGNED BY	Vahedi, M	06/26			
CHECKED BY	Mizumori, A	07/26			
ENTERED BY	Brutzman, N	06/26			
PRELIM. PLAN BY					
ARCH. / SPEC.			REVISION	DATE	BY

REGION NO.	STATE
10	WASH

JOB NUMBER 26A012

CONTRACT NO.

WSDOT

BRIAN S. ALDRICH — STATE OF WASHINGTON — 37834 — STRUCTURAL ENGINEER — PROFESSIONAL ENGINEER
SEE CERTIFICATION SHEET
DATE
STAMP BOX

AMY C. LELAND — STATE OF WASHINGTON — 39195 — STRUCTURAL ENGINEER — PROFESSIONAL ENGINEER
SEE CERTIFICATION SHEET
DATE
STAMP BOX

SR 544
NOOKSACK RIVER OVERFLOW CULVERT
ER PERMANENT REPAIR
NOOKSACK RIVER BRIDGE NO. 544/9

PIER 1
DETAILS 6 OF 6

PLAN REF NO
BA16

SHEET 70 OF 119 SHEETS

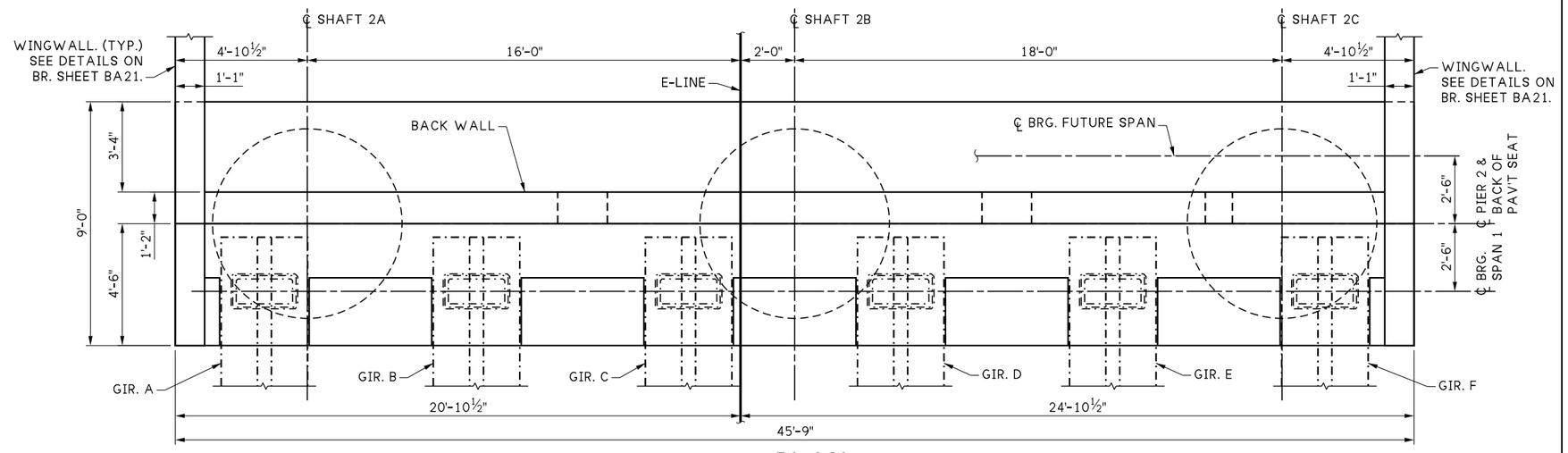
PLOT DATE: 23-Sep-2026 PLOT TIME: 11:33:56 AM PLOTTED BY: BrutzmN FILE PATH: pw://projectstore.wsdot.wa.gov:WSDOT/Documents/_HQ/Bridge & Structures/Bridge Design/_Design Projects/544/BR 544-9/2024_New Bridge_XL6549/_DGN/_Sheets/047_WINGWALL PIER 1 DETAILS 2.dgn

TOP OF GROUT PAD ELEVATIONS

GIRDER	A	B	C	D	E	F
ELEVATION	93.83	93.99	94.15	94.07	93.91	93.75

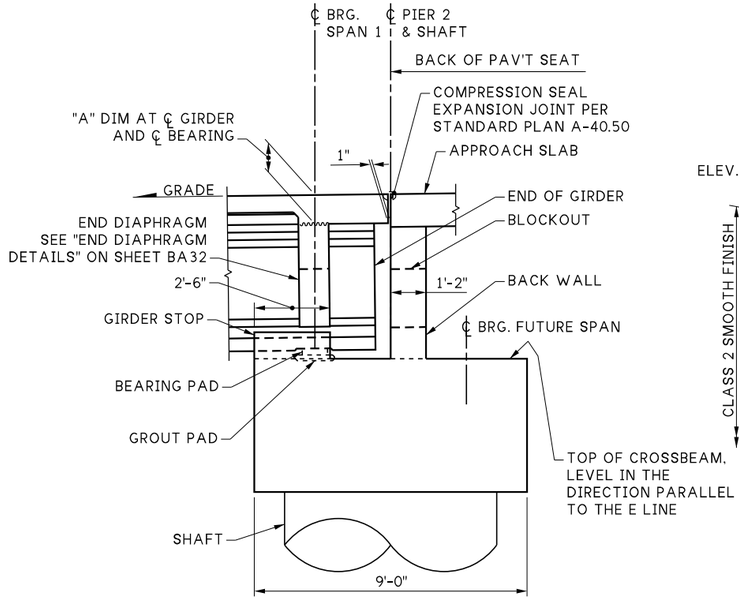
CROSSBEAM ELEVATIONS (ALONG ℄ PIER 2)

"2A"	"2B"	"2C"
94.05	93.55	93.63

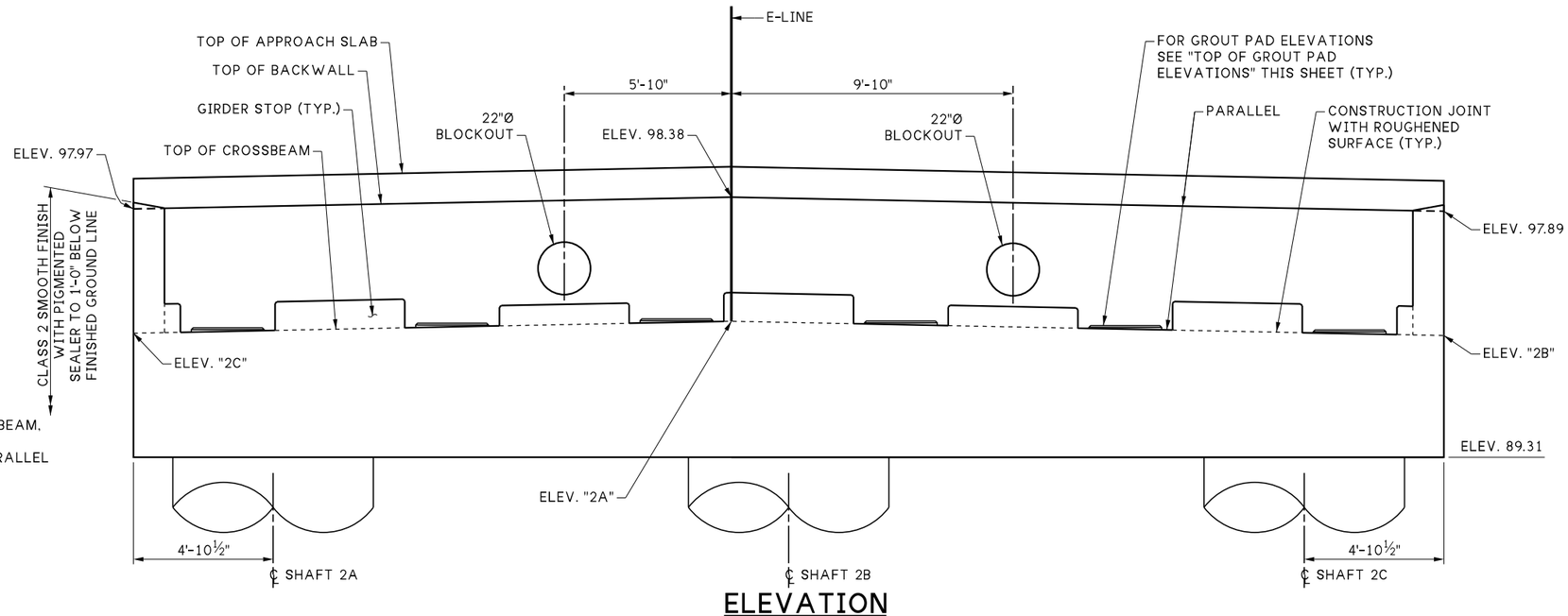


PLAN

SEE "FRAMING PLANS" FOR GIRDER SPACING.



TYPICAL SECTION



ELEVATION

LOOKING AHEAD ON STATION

DIMENSIONS MEASURED ALONG ℄ BEARING AND BACK OF PAVEMENT SEAT.

FILE NAME	050_PIER 2 GEOMETERY.dgn				
BRIDGE DES. ENG.	Leland, AC				
BRIDGE PROJ. ENG.					
SUPERVISOR	Aldrich, B				
DESIGNED BY	Vahedi, M	06/26			
CHECKED BY	Mizumori, A	07/26			
ENTERED BY	Wrenn, M	06/26			
PRELIM. PLAN BY					
ARCH. / SPEC.			REVISION	DATE	BY

REGION NO.	STATE
10	WASH

JOB NUMBER 26A012

CONTRACT NO.

WSDOT

BRIAN S. ALDRICH — STATE OF WASHINGTON — 37834 — PROFESSIONAL ENGINEER — STRUCTURAL ENGINEER
SEE CERTIFICATION SHEET
DATE
STAMP BOX

AMY C. LELAND — STATE OF WASHINGTON — 39195 — PROFESSIONAL ENGINEER — STRUCTURAL ENGINEER
SEE CERTIFICATION SHEET
DATE
STAMP BOX

SR 544
NOOKSACK RIVER OVERFLOW CULVERT
ER PERMANENT REPAIR

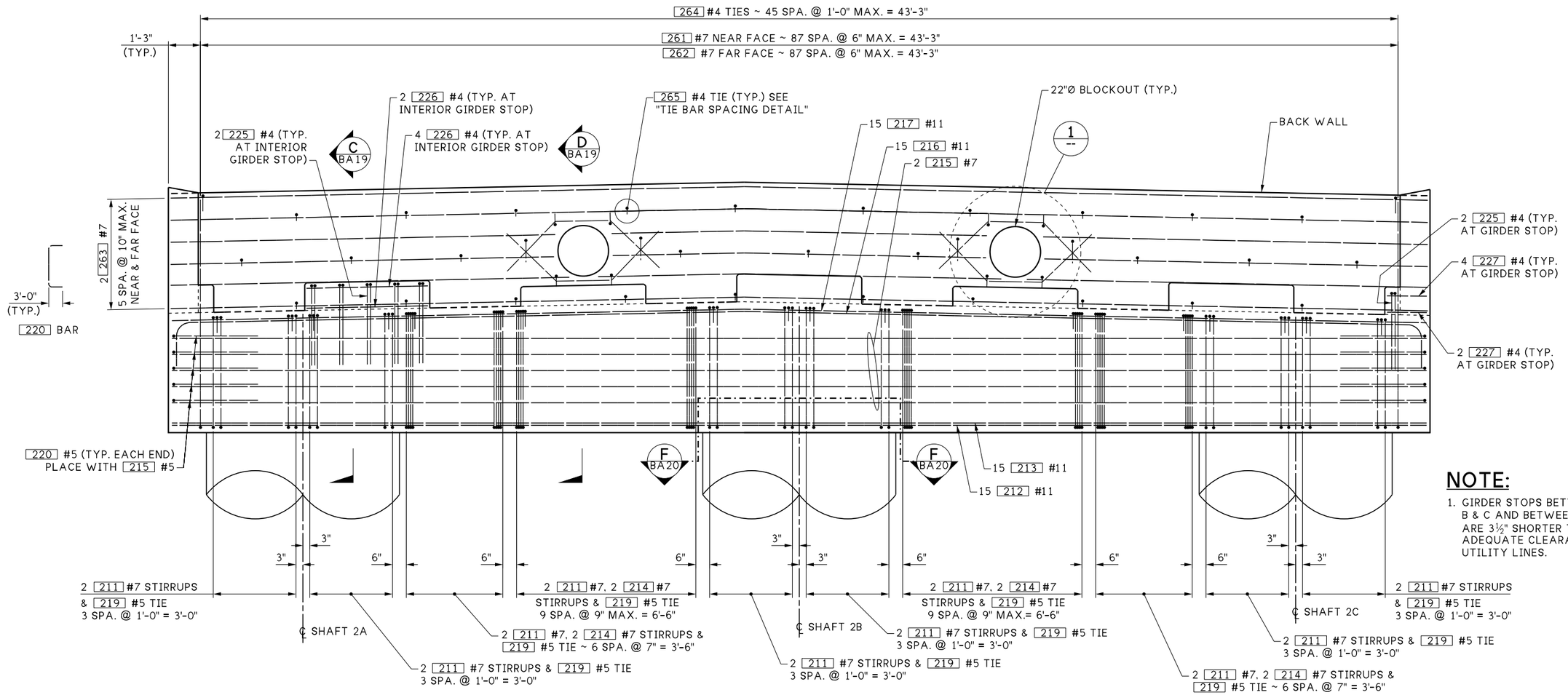
NOOKSACK RIVER BRIDGE NO. 544/9

PIER 2
GEOMETERY

PLAN REF NO
BA17

SHEET 71 OF 119 SHEETS

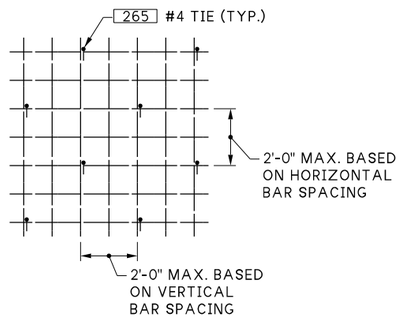
PLOT DATE: 23-Sep-2026 PLOT TIME: 11:33:59 AM PLOTTED BY: BrutzmN FILE PATH: pw://projectstore.wsdot.wa.gov:WSDOT/Documents/_HQ/Bridge & Structures/Bridge Design/_Design Projects/544/BR 544-9/2024_New Bridge_XL6549/_DGN/_Sheets/050_PIER 2 GEOMETERY.dgn



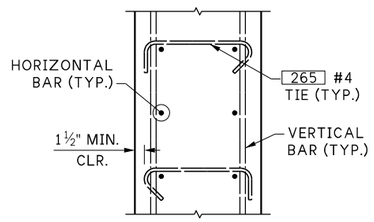
ELEVATION - REINFORCING

NOTE:

1. GIRDER STOPS BETWEEN GIRDERS B & C AND BETWEEN GIRDERS D & E ARE 3½" SHORTER TO PROVIDE ADEQUATE CLEARANCE FOR UTILITY LINES.

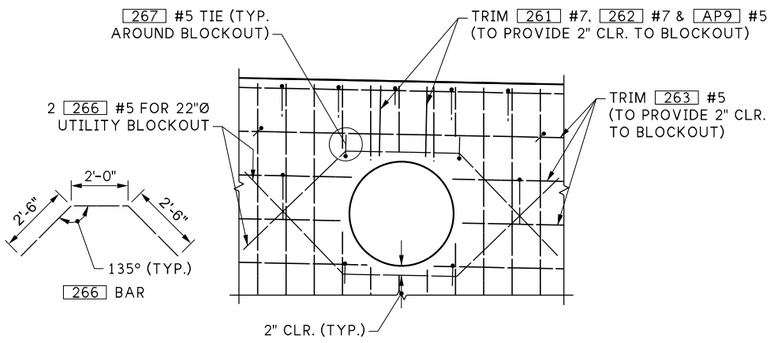


TIE BAR SPACING DETAIL



TIE BAR DETAIL

ALTERNATE 135° HOOK EVERY OTHER TIE BAR



DETAIL 1 / --

FILE NAME	051_PIER 2 DETAILS 1.dgn				
BRIDGE DES. ENG.	Leland, AC				
BRIDGE PROJ. ENG.					
SUPERVISOR	Aldrich, B				
DESIGNED BY	Vahedi, M	06/26			
CHECKED BY	Mizumori, A	07/26			
ENTERED BY	Wrenn, M	06/26			
PRELIM. PLAN BY					
ARCH. / SPEC.			REVISION	DATE	BY

REGION NO. 10 | STATE WASH
JOB NUMBER 26A012
CONTRACT NO.

WSDOT

BRIAN S. ALDRICH — STATE OF WASHINGTON — 37834 — PROFESSIONAL ENGINEER
SEE CERTIFICATION SHEET
DATE
STAMP BOX

AMY C. LELAND — STATE OF WASHINGTON — 39195 — PROFESSIONAL ENGINEER
SEE CERTIFICATION SHEET
DATE
STAMP BOX

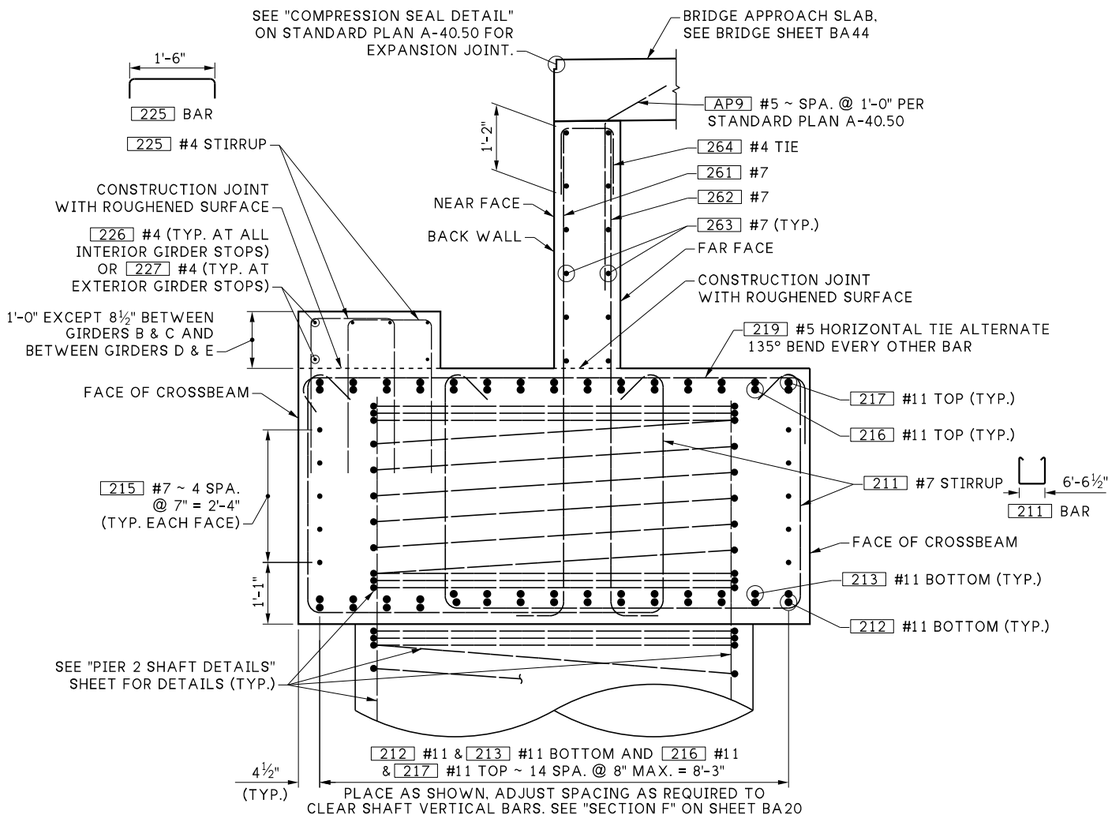
SR 544
NOOKSACK RIVER OVERFLOW CULVERT ER PERMANENT REPAIR
NOOKSACK RIVER BRIDGE NO. 544/9

PIER 2
DETAILS 1 OF 4

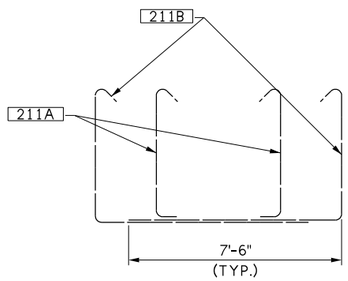
PLAN REF NO
BA18

SHEET 72 OF 119 SHEETS

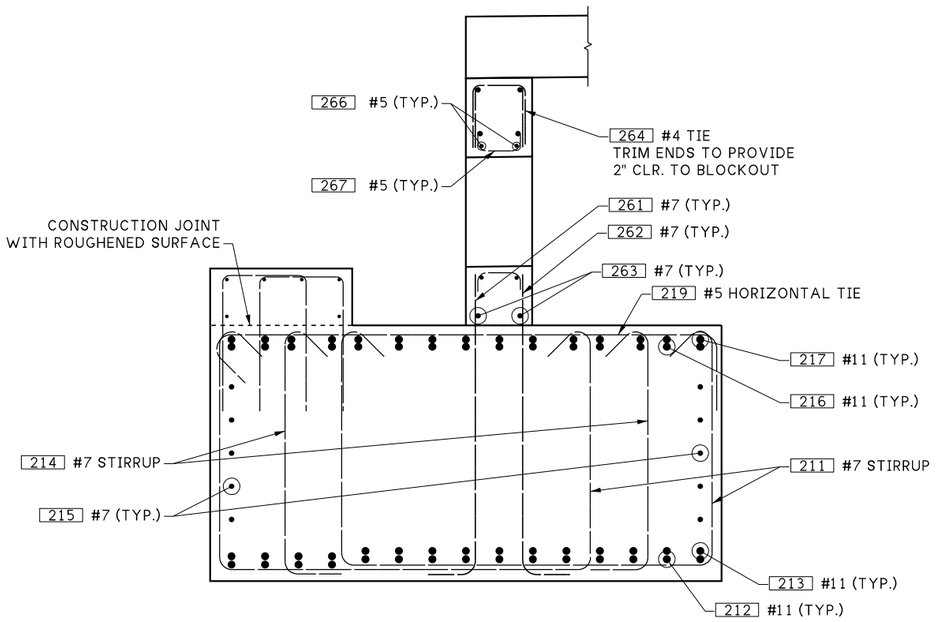
PLOT DATE: 23-Sep-2026 PLOT TIME: 11:34:02 AM PLOTTED BY: BrutzmN FILE PATH: pw://projectstore.wsdot.wa.gov:WSDOT/Documents/_HQ/Bridge & Structures/Bridge Design/_Design Projects/544/BR 544-9/2024_New Bridge_XL6549/_DGN/_Sheets/051_PIER 2 DETAILS 1.dgn



SECTION C
TYPICAL AT SHAFT LOCATIONS
BA18



ALTERNATE STIRRUP DETAIL AT SHAFTS
211 #7 STIRRUP PAIRS AT THE SHAFT LOCATIONS MAY USE THIS ALTERNATE STIRRUP DETAIL



SECTION D
FOR DETAILS AND CALLOUTS NOT SHOWN, SEE SECTION C. TYPICAL AT BLOCKOUT LOCATIONS
BA18

FILE NAME	052_PIER 2 DETAILS 2.dgn				
BRIDGE DES. ENG.	Leland, AC				
BRIDGE PROJ. ENG.					
SUPERVISOR	Aldrich, B				
DESIGNED BY	Vahedi, M	06/26			
CHECKED BY	Mizumori, A	07/26			
ENTERED BY	Wrenn, M	06/26			
PRELIM. PLAN BY					
ARCH. / SPEC.			REVISION	DATE	BY

REGION NO.	STATE
10	WASH

JOB NUMBER 26A012

CONTRACT NO.

WSDOT

BRIAN S. ALDRICH, STATE OF WASHINGTON, 37834, STRUCTURAL ENGINEER, PROFESSIONAL ENGINEER
SEE CERTIFICATION SHEET
DATE
STAMP BOX

AMY C. LELAND, STATE OF WASHINGTON, 39195, STRUCTURAL ENGINEER, PROFESSIONAL ENGINEER
SEE CERTIFICATION SHEET
DATE
STAMP BOX

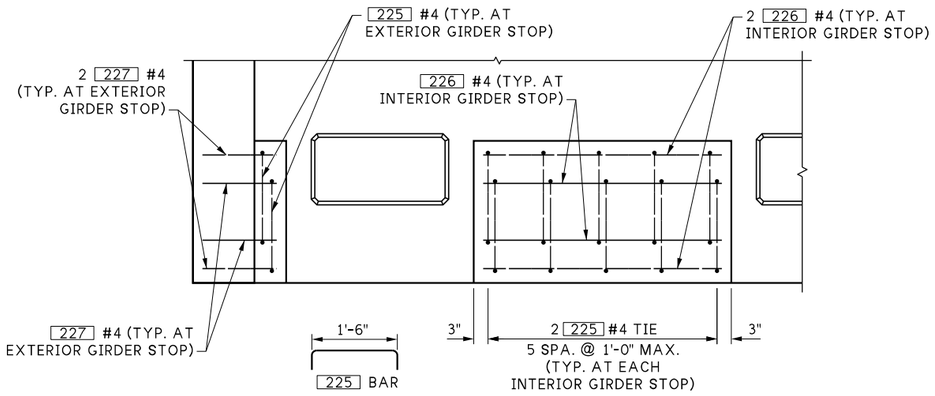
SR 544
NOOKSACK RIVER OVERFLOW CULVERT
ER PERMANENT REPAIR
NOOKSACK RIVER BRIDGE NO. 544/9

PIER 2
DETAILS 2 OF 4

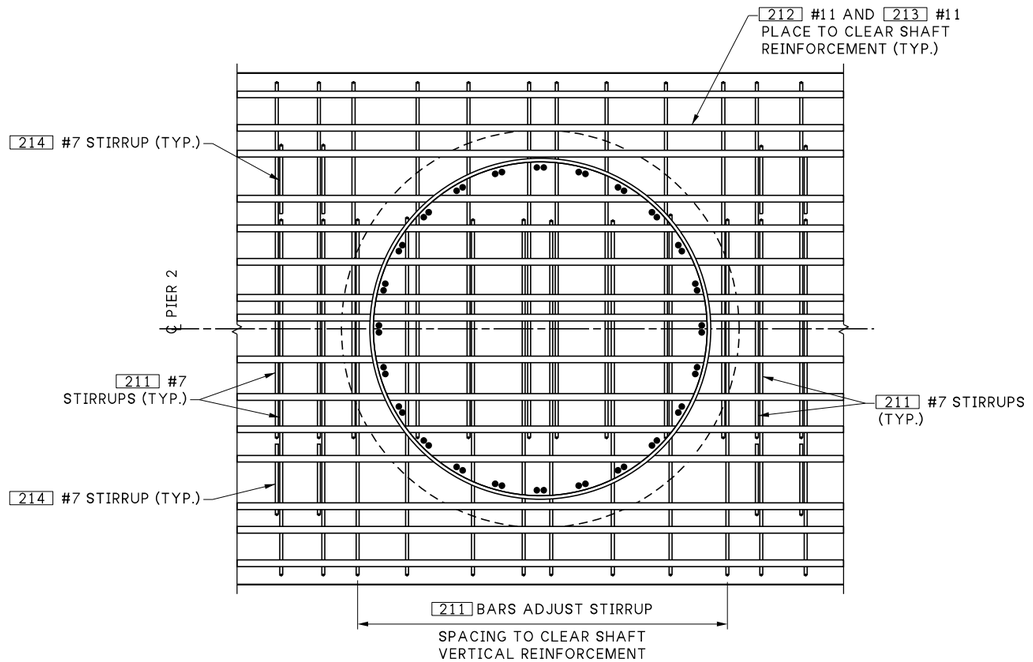
PLAN REF NO
BA19

SHEET 73 OF 119 SHEETS

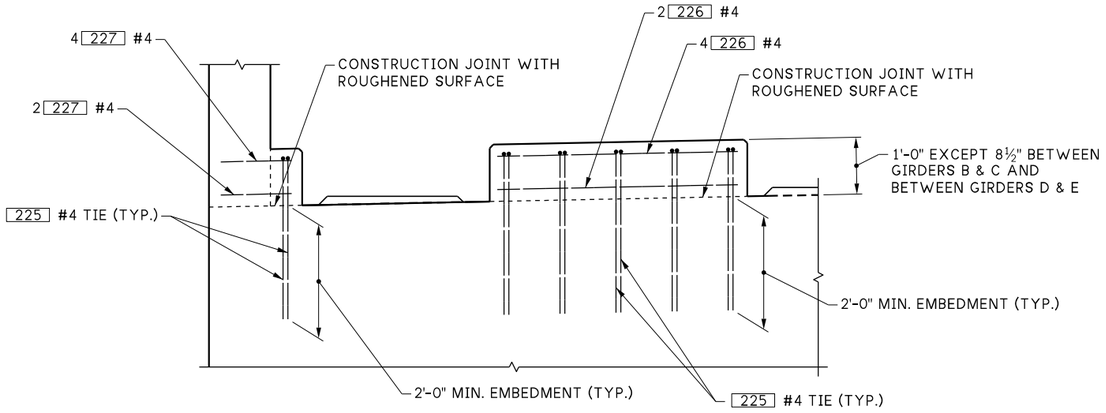
PLOT DATE: 23-Sep-2026 PLOT TIME: 11:34:06 AM PLOTTED BY: BrutzmN FILE PATH: pw://projectstore.wsdot.wa.gov:WSDOT/Documents/_HQ/Bridge & Structures/Bridge Design/_Design Projects/544/BR 544-9/2024_New Bridge_XL6549/_DGN/_Sheets/052_PIER 2 DETAILS 2.dgn



PLAN - GIRDER STOP



SECTION F
BA18



ELEVATION - GIRDER STOP

FILE NAME	054_PIER 2 DETAILS 3.dgn				
BRIDGE DES. ENG.	Leland, AC				
BRIDGE PROJ. ENG.					
SUPERVISOR	Aldrich, B				
DESIGNED BY	Vahedi, M	06/26			
CHECKED BY	Mizumori, A	07/26			
ENTERED BY	Wrenn, M	06/26			
PRELIM. PLAN BY					
ARCH. / SPEC.			REVISION	DATE	BY

REGION NO.	STATE
10	WASH

JOB NUMBER 26A012

CONTRACT NO.

WSDOT

BRIAN S. ALDRICH — STATE OF WASHINGTON — 37834 — PROFESSIONAL ENGINEER
SEE CERTIFICATION SHEET
DATE
STAMP BOX

AMY C. LELAND — STATE OF WASHINGTON — 39195 — PROFESSIONAL ENGINEER
SEE CERTIFICATION SHEET
DATE
STAMP BOX

SR 544
NOOKSACK RIVER OVERFLOW CULVERT ER PERMANENT REPAIR
NOOKSACK RIVER BRIDGE NO. 544/9

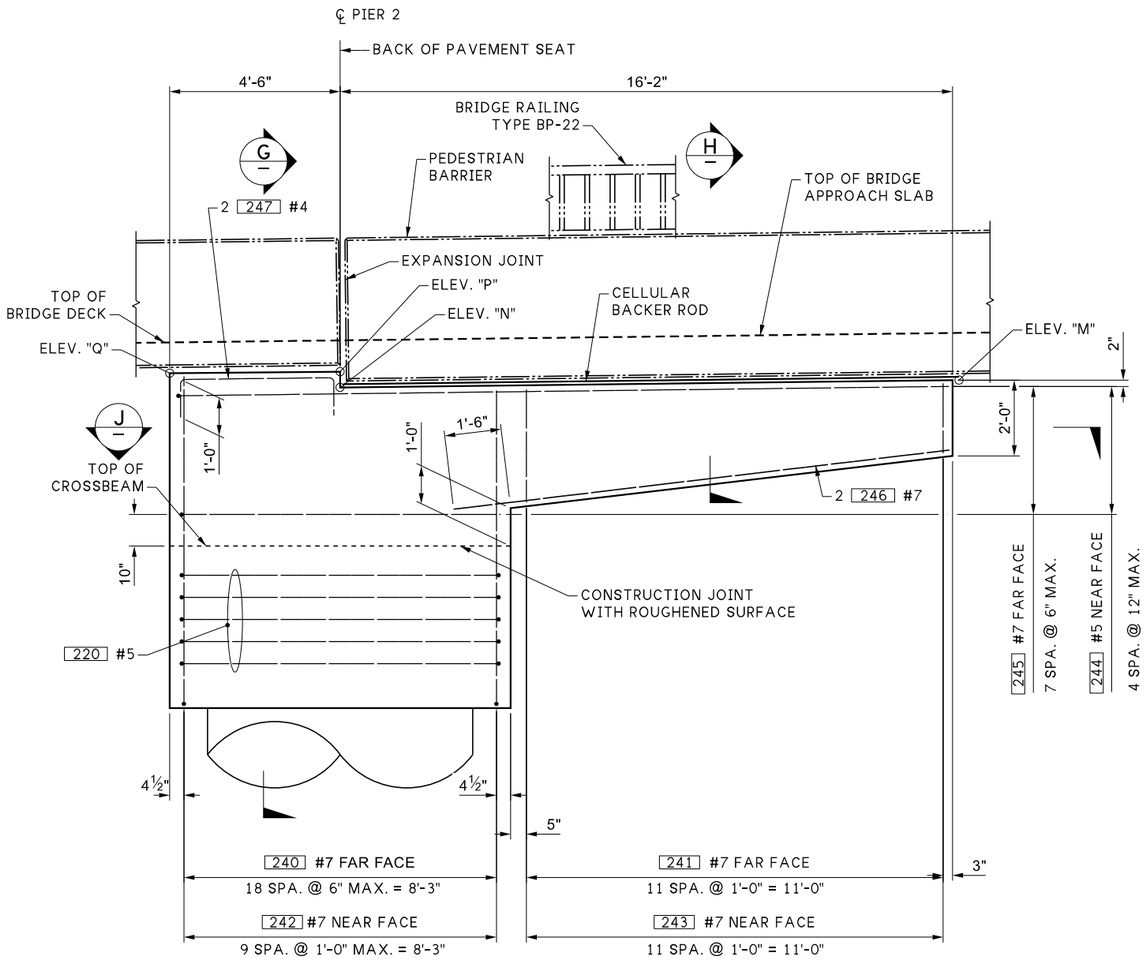
PIER 2
DETAILS 3 OF 4

PLAN REF NO
BA20

SHEET 74 OF 119 SHEETS

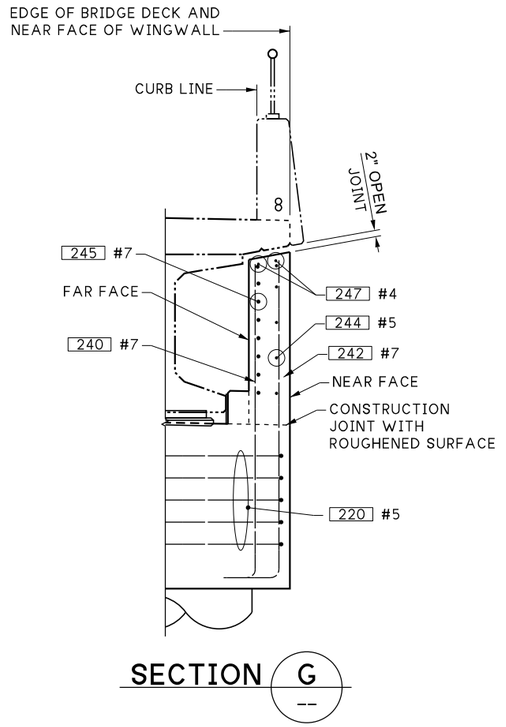
PLOT DATE: 23-Sep-2026 PLOT TIME: 11:34:11 AM PLOTTED BY: BrutzmN FILE PATH: pw://projectstore.wsdot.wa.gov:WSDOT/Documents/_HQ/Bridge & Structures/Bridge Design/_Design Projects/544/BR 544-9/2024_New Bridge_XL6549/_DGN/_Sheets/054_PIER 2 DETAILS 3.dgn

WINGWALL LOCATION	ELEVATION POINT AT TOP OF NEAR FACE			
	M	N	P	Q
PIER 2 RIGHT	97.84	97.72	98.14	98.10
PIER 2 LEFT	97.92	97.80	98.22	98.18

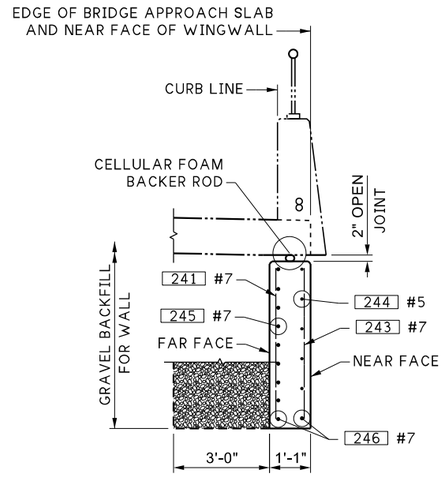


ELEVATION WINGWALL

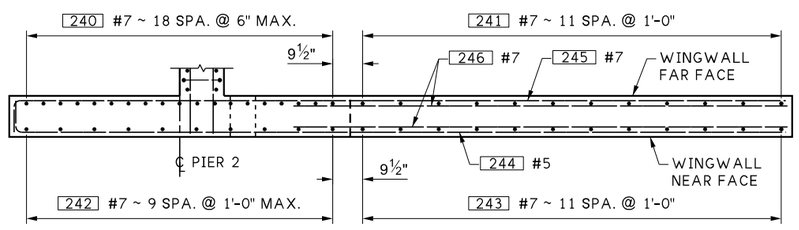
RIGHT SIDE SHOWN, LEFT SIDE SIMILAR.
CROSSBEAM REINFORCEMENT NOT SHOWN FOR CLARITY.



SECTION G



SECTION H



SECTION J

FILE NAME	075_WINGWALL PIER 2 DETAILS 1.dgn				
BRIDGE DES. ENG.	Leland, AC				
BRIDGE PROJ. ENG.					
SUPERVISOR	Aldrich, B				
DESIGNED BY	Vahedi, M	06/26			
CHECKED BY	Mizumori, A	07/26			
ENTERED BY	Wrenn, M	06/26			
PRELIM. PLAN BY					
ARCH. / SPEC.			REVISION	DATE	BY

REGION NO.	STATE
10	WASH
JOB NUMBER	26A012
CONTRACT NO.	

WSDOT

BRIAN S. ALDRICH — STATE OF WASHINGTON — 37834 — PROFESSIONAL ENGINEER
SEE CERTIFICATION SHEET
DATE
STAMP BOX

AMY C. LELAND — STATE OF WASHINGTON — 39195 — PROFESSIONAL ENGINEER
SEE CERTIFICATION SHEET
DATE
STAMP BOX

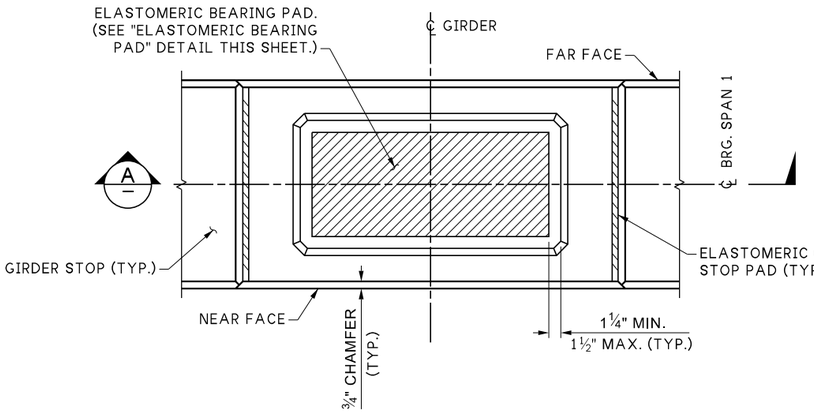
SR 544
NOOKSACK RIVER OVERFLOW CULVERT
ER PERMANENT REPAIR
NOOKSACK RIVER BRIDGE NO. 544/9

PIER 2
DETAILS 4 OF 4

PLAN REF NO
BA21

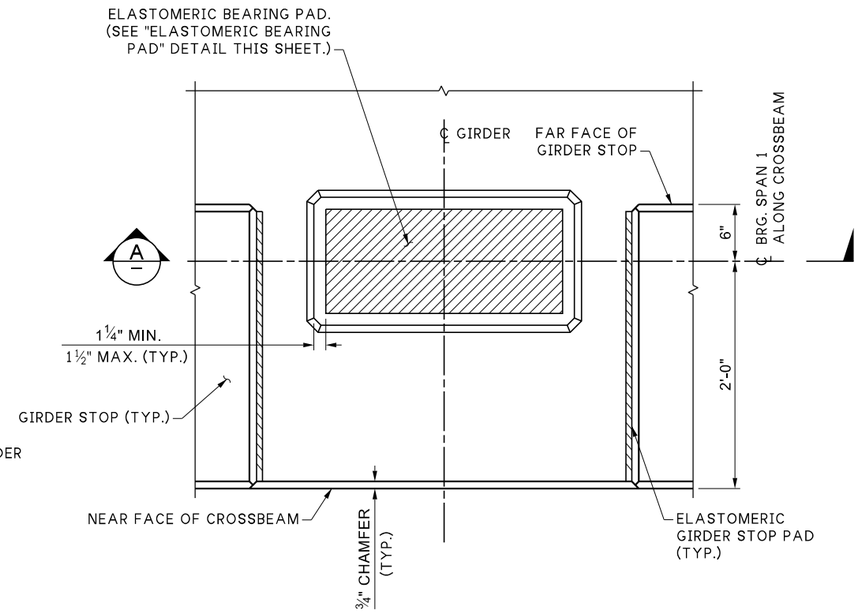
SHEET 75 OF 119 SHEETS

PLOT DATE: 23-Sep-2026 PLOT TIME: 11:34:15 AM PLOTTED BY: BrutzmN FILE PATH: pw://projectstore.wsdot.wa.gov:WSDOT/Documents/_HQ/Bridge & Structures/Bridge Design/_Design Projects/544/BR 544-9/2024_New Bridge_XL6549/_DGN/_Sheets/075_WINGWALL PIER 2 DETAILS 1.dgn



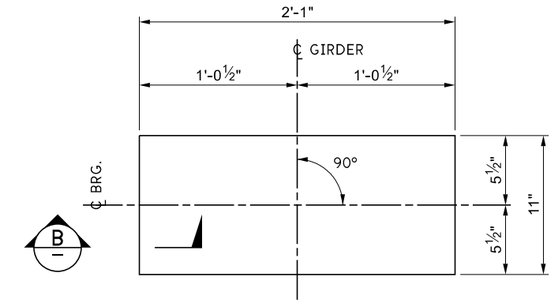
PIER 1 - GROUT PAD DETAIL

GIRDER NOT SHOWN FOR CLARITY



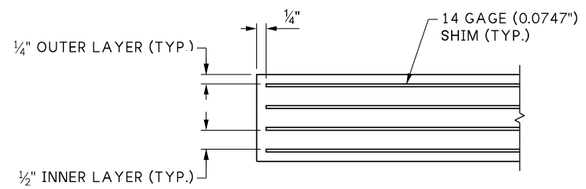
PIER 2 - GROUT PAD DETAIL

GIRDER NOT SHOWN FOR CLARITY

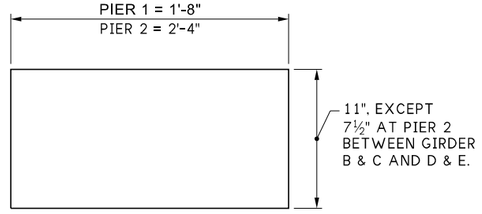


ELASTOMERIC BEARING PAD

LAMINATED ELASTOMERIC BEARING PAD
(4 SHIMS)



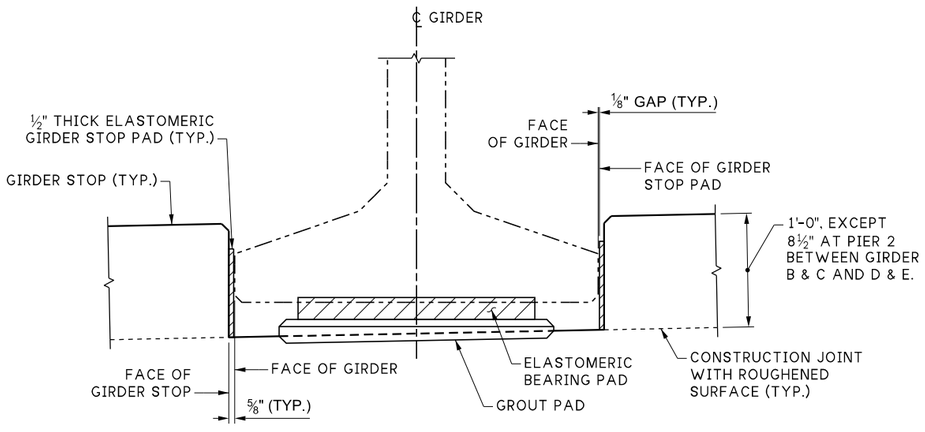
SECTION B



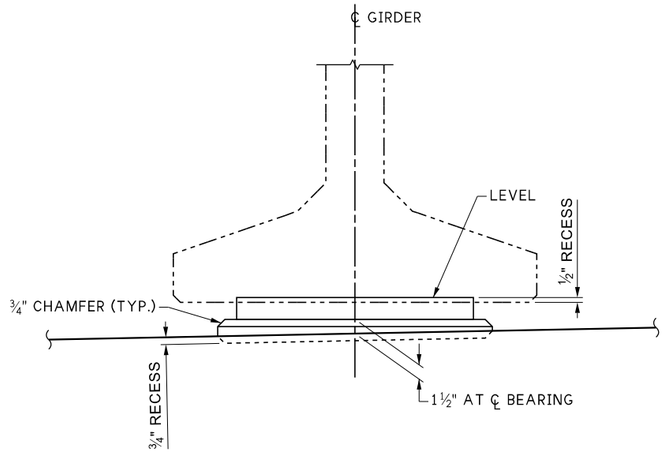
ELASTOMERIC GIRDER STOP PAD

SHEAR MODULUS = 165 PSI

BEARING DESIGN TABLE AASHTO METHOD B DESIGN	
SERVICE - I LIMIT STATE	
DEAD LOAD (DL) REACTION	161 KIPS
LIVE LOAD REACTION (W/O IMPACT)	106 KIPS
UNLOADED HEIGHT	2.30 IN
LOADED HEIGHT (DL)	2.28 IN
SHEAR MODULUS	165 PSI



SECTION A



GROUT PAD ELEVATION

NOTES:

1. GIRDER STOPS SHALL BE CONSTRUCTED AFTER GIRDER PLACEMENT.
2. THE ELASTOMERIC GIRDER STOP PADS SHALL BE BONDED TO THE GIRDER STOPS WITH AN APPROVED ADHESIVE.

FILE NAME	080_BEARING DETAILS 1.dgn				
BRIDGE DES. ENG.	Leland, AC				
BRIDGE PROJ. ENG.					
SUPERVISOR	Aldrich, B				
DESIGNED BY	Vahedi, M	06/26			
CHECKED BY	Sawahata, D	07/26			
ENTERED BY	Brutzman, N	06/26			
PRELIM. PLAN BY					
ARCH. / SPEC.			REVISION	DATE	BY

REGION NO.	STATE
10	WASH
JOB NUMBER	26A012
CONTRACT NO.	

WSDOT

BRIAN S. ALDRICH — STATE OF WASHINGTON — 37634 — PROFESSIONAL ENGINEER
SEE CERTIFICATION SHEET
DATE
STAMP BOX

AMY C. LELAND — STATE OF WASHINGTON — 39185 — PROFESSIONAL ENGINEER
SEE CERTIFICATION SHEET
DATE
STAMP BOX

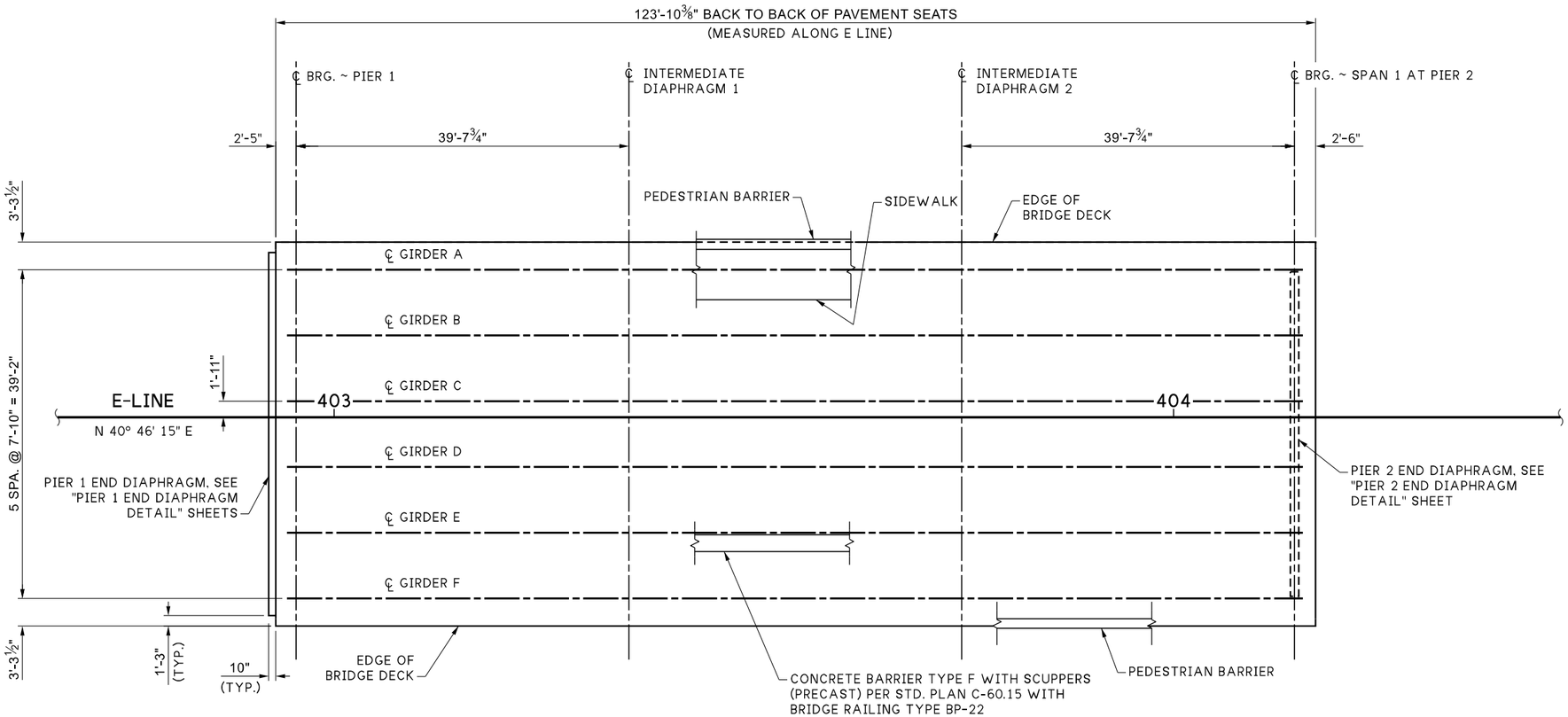
SR 544
NOOKSACK RIVER OVERFLOW CULVERT
ER PERMANENT REPAIR
NOOKSACK RIVER BRIDGE NO. 544/9

BEARING DETAILS

PLAN REF NO
BA22

SHEET 76 OF 119 SHEETS

PLOT DATE: 23-Sep-2026 PLOT TIME: 11:34:18 AM PLOTTED BY: BrutzmN FILE PATH: pw://projectstore.wsdot.wa.gov:WSDOT/Documents/_HQ/Bridge & Structures/Bridge Design/_Design Projects/544/BR 544-9/2024_New Bridge_XL6549/_DGN/_Sheets/080_BEARING DETAILS 1.dgn



FRAMING PLAN

FILE NAME	090_FRAMING PLAN.dgn				
BRIDGE DES. ENG.	Leland, AC				
BRIDGE PROJ. ENG.					
SUPERVISOR	Aldrich, B				
DESIGNED BY	Vahedi, M	06/26			
CHECKED BY	Sawahata, D	07/26			
ENTERED BY	Brutzman, N	06/26			
PRELIM. PLAN BY					
ARCH. / SPEC.		REVISION	DATE	BY	

REGION NO.	STATE
10	WASH
JOB NUMBER	
26A012	
CONTRACT NO.	

WSDOT

BRIAN S. ALDRICH — STATE OF WASHINGTON — 37834 — PROFESSIONAL ENGINEER — STRUCTURAL ENGINEER
SEE CERTIFICATION SHEET
DATE
STAMP BOX

AMY C. LELAND — STATE OF WASHINGTON — 39195 — PROFESSIONAL ENGINEER — STRUCTURAL ENGINEER
SEE CERTIFICATION SHEET
DATE
STAMP BOX

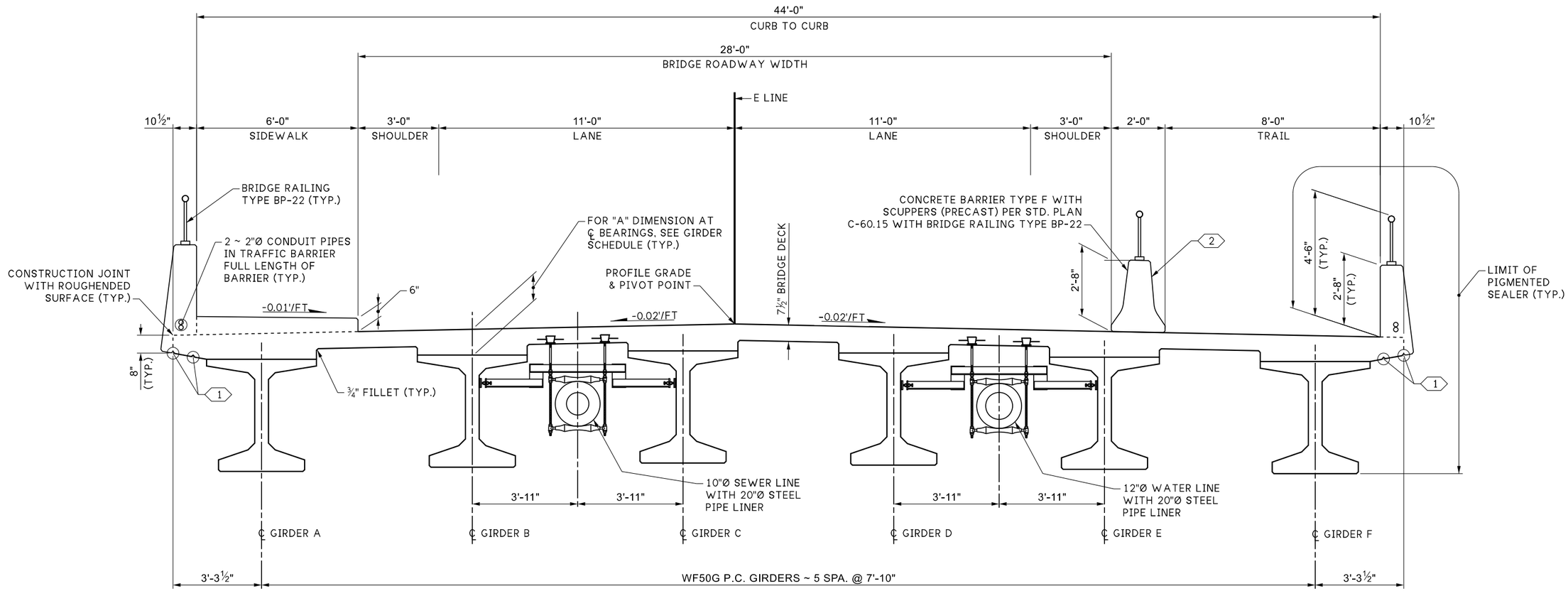
SR 544
NOOKSACK RIVER OVERFLOW CULVERT
ER PERMANENT REPAIR
NOOKSACK RIVER BRIDGE NO. 544/9

FRAMING PLAN

PLAN REF NO
BA23

SHEET 77 OF 119 SHEETS

PLOT DATE: 23-Sep-2026 PLOT TIME: 11:34:24 AM PLOTTED BY: BrutzmN FILE PATH: pw://projectstore.wsdot.wa.gov:WSDOT/Documents/_HQ/Bridge & Structures/Bridge Design/_Design Projects/544/BR 544-9/2024_New Bridge_XL6549/_DGN/_Sheets/090_FRAMING PLAN.dgn



TYPICAL SECTION

SHOWN NEAR MID SPAN

KEY NOTES:

1. DRIP GROVE (TYP.) SEE "PEDESTRIAN BARRIER DETAILS" SHEETS FOR DETAILS.
2. SEE STANDARD PLAN C-60.30 FOR TYPE F TRANSITION TO TYPE 2 BARRIER.

FILE NAME	100_TYPICAL SECTION.dgn				
BRIDGE DES. ENG.	Leland, AC				
BRIDGE PROJ. ENG.					
SUPERVISOR	Aldrich, B				
DESIGNED BY	Vahedi, M	06/26			
CHECKED BY	Sawahata, D	07/26			
ENTERED BY	Brutzman, N	06/26			
PRELIM. PLAN BY					
ARCH. / SPEC.			REVISION	DATE	BY

REGION NO.	STATE
10	WASH
JOB NUMBER	
26A012	
CONTRACT NO.	

WSDOT

BRIAN S. ALDRICH — STATE OF WASHINGTON — 37834 — STRUCTURAL ENGINEER — PROFESSIONAL ENGINEER
SEE CERTIFICATION SHEET
DATE
STAMP BOX

AMY C. LELAND — STATE OF WASHINGTON — 39105 — STRUCTURAL ENGINEER — PROFESSIONAL ENGINEER
SEE CERTIFICATION SHEET
DATE
STAMP BOX

SR 544
NOOKSACK RIVER OVERFLOW CULVERT ER PERMANENT REPAIR
NOOKSACK RIVER BRIDGE NO. 544/9

TYPICAL SECTION

PLAN REF NO
BA24

SHEET 78 OF 119 SHEETS

PLOT DATE: 29-Sep-2026 PLOT TIME: 2:03:25 PM PLOTTED BY: BrutzmN FILE PATH: pw://projectstore.wsdot.wa.gov:WSDOT/Documents/_HQ/Bridge & Structures/Bridge Design/_Design Projects/544/BR 544-9/2024_New Bridge_XL6549/_DGN/_Sheets/100_TYPICAL SECTION.dgn

GIRDER SCHEDULE

SPAN	GIRDER	GIRDER SERIES	PLAN LENGTH (ALONG GIRDER GRADE) (SEE GIRDER NOTE 1)	INT. DIAPHRAGM TYPE (FULL OR PARTIAL)	GIRDER END DETAILS							MIN. CONC. COMP. STRENGTH		NUMBER OF STRANDS (SEE GIRDER NOTE 2)			LOCATION OF C.G. STRANDS			STRAIGHT STRANDS TO EXTEND				"A" DIMENSION AT ℄ BEARINGS	DECK SCREED CAMBER C	MIDSPAN VERTICAL DEFLECTION D		REINFORCEMENT DETAILS							SHIPPING AND HANDLING DETAILS					
					END 1 TYPE	END 2 TYPE	L_d	θ_1	θ_2	P_1	P_2	@ 28 DAYS $F'C$ (KSI)	@ RELEASE $F'CI$ (KSI)	STRAIGHT	HARPED	TEMPORARY	E	$F_{\text{℄}}$	F_0	END 1		END 2				LOWER BOUND @ 40 DAYS	UPPER BOUND @ 120 DAYS	ZONE 1		ZONE 2		ZONE 3		H1	MAXIMUM MIDSPAN VERTICAL DEFLECTION AT SHIPPING	L	L_1	L_2	K_θ MINIMUM SHIPPING SUPPORT ROTATIONAL SPRING CONSTANT (KIP-IN/RAD)	W_{CC} MINIMUM SHIPPING SUPPORT CNTR.-TO-CNTR. WHEEL SPACING
																				STRANDS	EXTENSION LENGTH	STRANDS	EXTENSION LENGTH				SPACING	LENGTH	SPACING	LENGTH	SPACING	LENGTH							
1	A	WF50G	122'-2⅞"	FULL DEPTH	A	B	2'-0"	90	90	1'-3½"	2'-½"	9.5	7.7	38	18	4	3½"	5"	1'-0"	3-4-5-6	1'-4"	-	-	11½"	3⅛"	2⅞"	6⅜"	2½"	2'-6"	6"	16'-0"	9"	6'-9"	5'-4½"	6⅜"	3'-0"	7'-0"	7'-0"	40,000	6'-0"
	B	WF50G	122'-2⅞"	FULL DEPTH	A	B	2'-0"	90	90	1'-3½"	2'-½"	9.5	7.7	38	18	4	3½"	5"	1'-0"	3-4-5-6	1'-4"	-	-	11½"	3¼"	2¾"	6⅜"	2½"	2'-6"	6"	16'-0"	9"	6'-9"	5'-4½"	6⅜"	3'-0"	7'-0"	7'-0"	40,000	6'-0"
	C	WF50G	122'-2⅞"	FULL DEPTH	A	B	2'-0"	90	90	1'-3½"	2'-½"	9.5	7.7	38	18	4	3½"	5"	1'-0"	3-4-5-6	1'-4"	-	-	11½"	3¼"	2¾"	6⅜"	2½"	2'-6"	6"	16'-0"	9"	6'-9"	5'-4½"	6⅜"	3'-0"	7'-0"	7'-0"	40,000	6'-0"
	D	WF50G	122'-2⅞"	FULL DEPTH	A	B	2'-0"	90	90	1'-3½"	2'-½"	9.5	7.7	38	18	4	3½"	5"	1'-0"	3-4-5-6	1'-4"	-	-	11½"	3¼"	2¾"	6⅜"	2½"	2'-6"	6"	16'-0"	9"	6'-9"	5'-4½"	6⅜"	3'-0"	7'-0"	7'-0"	40,000	6'-0"
	E	WF50G	122'-2⅞"	FULL DEPTH	A	B	2'-0"	90	90	1'-3½"	2'-½"	9.5	7.7	38	18	4	3½"	5"	1'-0"	3-4-5-6	1'-4"	-	-	11½"	3¼"	2¾"	6⅜"	2½"	2'-6"	6"	16'-0"	9"	6'-9"	5'-4½"	6⅜"	3'-0"	7'-0"	7'-0"	40,000	6'-0"
	F	WF50G	122'-2⅞"	FULL DEPTH	A	B	2'-0"	90	90	1'-3½"	2'-½"	9.5	7.7	38	18	4	3½"	5"	1'-0"	3-4-5-6	1'-4"	-	-	11½"	3"	2⅞"	6⅜"	2½"	2'-6"	6"	16'-0"	9"	6'-9"	5'-4½"	6⅜"	3'-0"	7'-0"	7'-0"	40,000	6'-0"

GIRDER NOTES:

1. PLAN LENGTH SHALL BE INCREASED AS NECESSARY TO COMPENSATE FOR SHORTENING DUE TO PRESTRESS AND SHRINKAGE.
2. ALL PRETENSIONED AND TEMPORARY STRANDS SHALL BE 0.6"Ø AASHTO M203 GRADE 270 LOW RELAXATION STRANDS, JACKED TO 202.5 KSI (43.9 KIPS PER STRAND).

FILE NAME	155_WF Girder Details 1 of 5.dgn		
BRIDGE DES. ENG.	Leland, AC		
BRIDGE PROJ. ENG.			
SUPERVISOR	Aldrich, B		
DESIGNED BY	Vahedi, M	06/26	
CHECKED BY	Sawahata, D	07/26	
ENTERED BY	Brutzman, N	06/26	
PRELIM. PLAN BY			
ARCH. / SPEC.			

REVISION	DATE	BY

REGION NO.	STATE
10	WASH

JOB NUMBER 26A012

CONTRACT NO.

WSDOT

BRIAN S. ALDRICH — STATE OF WASHINGTON — 37834 — PROFESSIONAL ENGINEER

SEE CERTIFICATION SHEET

DATE

STAMP BOX

AMY C. LELAND — STATE OF WASHINGTON — 39195 — PROFESSIONAL ENGINEER

SEE CERTIFICATION SHEET

DATE

STAMP BOX

SR 544
NOOKSACK RIVER OVERFLOW CULVERT ER PERMANENT REPAIR

NOOKSACK RIVER BRIDGE NO. 544/9

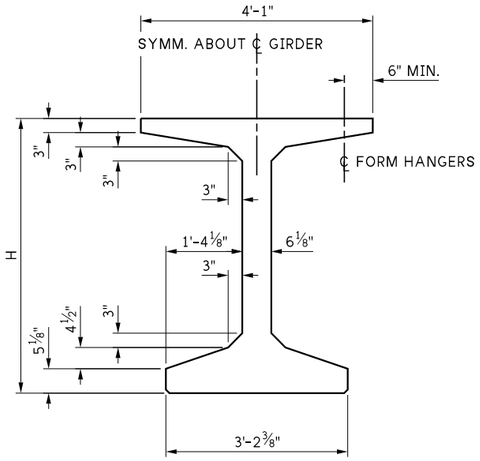
WF GIRDER DETAILS 1 OF 5

PLAN REF NO

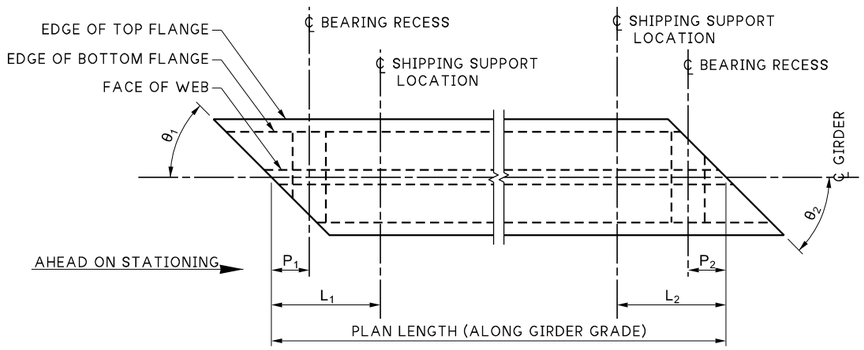
BA25

SHEET 79 OF 119 SHEETS

PLOT DATE: 23-Sep-2026 PLOT TIME: 11:34:32 AM PLOTTED BY: BrutzmN FILE PATH: pw://projectstore.wsdot.wa.gov:WSDOT/Documents/_HQ/Bridge & Structures/Bridge Design/_Design Projects/544/BR 544-9/2024_New Bridge_XL6549/_DGN/_Sheets/155_WF Girder Details 1 of 5.dgn

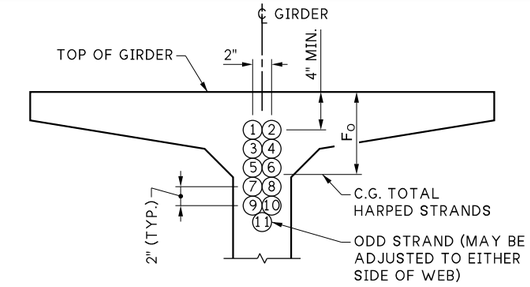


SECTION A
REINFORCEMENT AND STRANDS NOT SHOWN



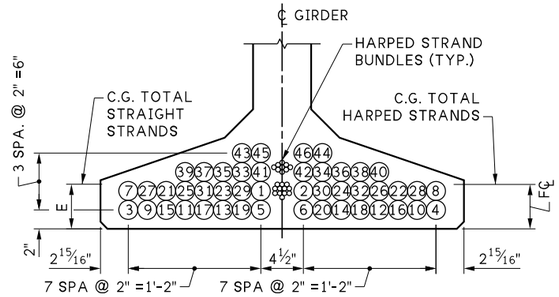
END 1 END 2

GIRDER PLAN



VIEW B

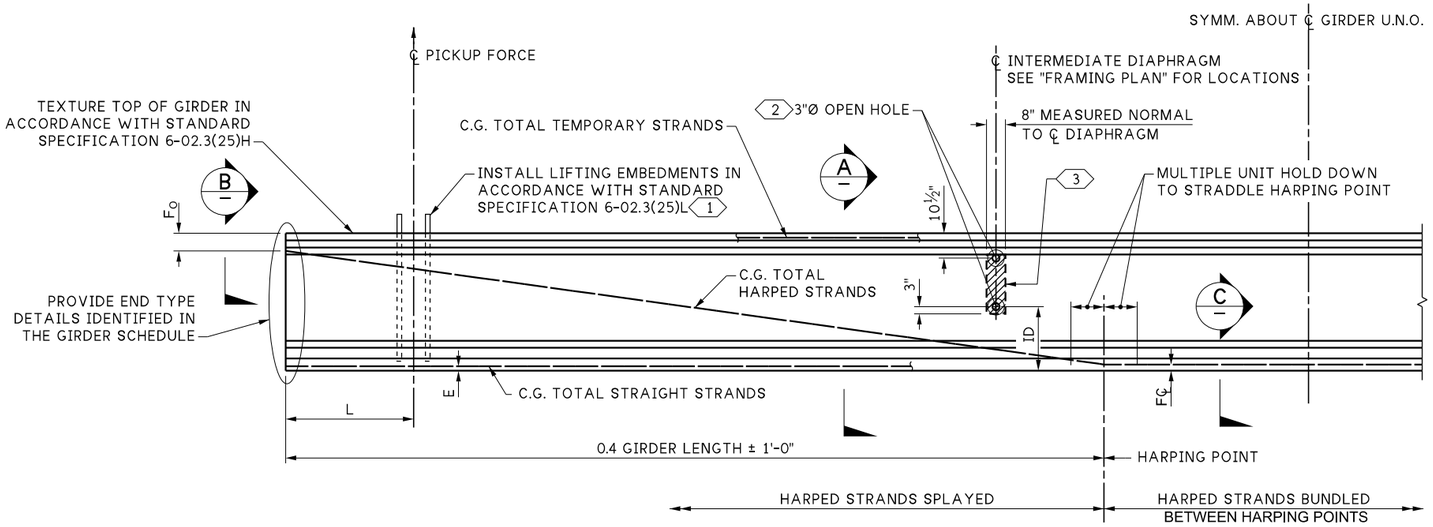
HARPED STRAND LOCATION SEQUENCE SHALL BE AS SHOWN ①, ②, ETC.



SECTION C

STRAIGHT STRAND LOCATION SEQUENCE SHALL BE AS SHOWN ①, ②, ETC.

GIRDER SERIES	H GIRDER HEIGHT	ID FULL DEPTH INT. DIAPHRAGM
WF50G	4'-2"	1'-2⅛"



GIRDER ELEVATION

KEY NOTES:

1. REMOVE TO TOP OF GIRDER AFTER ERECTION.
2. ADJUST HOLE LOCATION VERTICALLY TO MISS HARPED STRANDS. OMIT HOLES AND PLACE INSERTS ON THE INTERIOR FACE OF EXTERIOR GIRDERS. PLACE HOLES AND INSERTS PARALLEL TO DIAPHRAGM CENTERLINE. INSERTS SHALL BE 1"Ø MEADOWBURKE MX-3 HI-TENSILE, 1"Ø MEADOWBURKE FX-19 FERRULE INSERT, 1"Ø x 5½" WILLIAMS F22 OPEN FERRULE INSERT, 1"Ø x 4⅝" DAYTON-SUPERIOR F-62 FLARED THIN SLAB FERRULE INSERT OR APPROVED EQUAL.
3. APPLY APPROVED RETARDANT FOR ¼" ETCH TO SIDE FORMS OR ¼" ROUGHENED SURFACE TREATMENT BY APPROVED MECHANICAL METHOD. OMIT AT EXTERIOR FACE OF EXTERIOR GIRDERS.

FILE NAME	156_WF Girder Details 2 of 5.dgn				
BRIDGE DES. ENG.	Leland, AC				
BRIDGE PROJ. ENG.					
SUPERVISOR	Aldrich, B				
DESIGNED BY	Vahedi, M	06/26			
CHECKED BY	Sawahata, D	07/26			
ENTERED BY	Brutzman, N	06/26			
PRELIM. PLAN BY					
ARCH. / SPEC.			REVISION	DATE	BY

REGION NO.	STATE
10	WASH
JOB NUMBER	
26A012	
CONTRACT NO.	

WSDOT

BRIAN S. ALDRICH — STATE OF WASHINGTON — 37834 — PROFESSIONAL ENGINEER
SEE CERTIFICATION SHEET
DATE
STAMP BOX

AMY C. LELAND — STATE OF WASHINGTON — 39195 — PROFESSIONAL ENGINEER
SEE CERTIFICATION SHEET
DATE
STAMP BOX

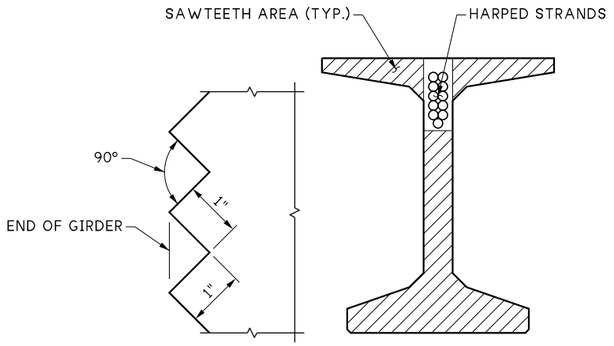
SR 544
NOOKSACK RIVER OVERFLOW CULVERT
ER PERMANENT REPAIR
NOOKSACK RIVER BRIDGE NO. 544/9

WF GIRDER
DETAILS 2 OF 5

PLAN REF NO
BA26

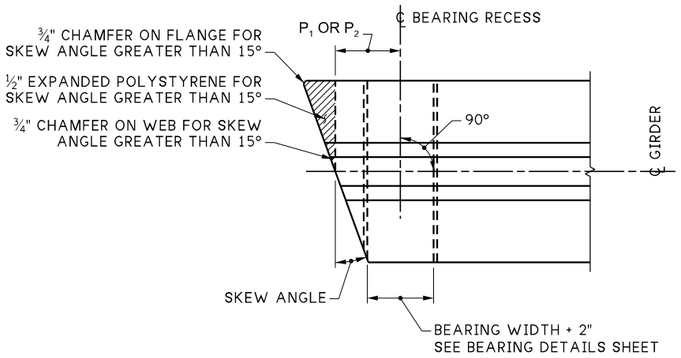
SHEET 80 OF 119 SHEETS

PLOT DATE: 23-Sep-2026 PLOT TIME: 11:34:35 AM PLOTTED BY: BrutzmN FILE PATH: pw://projectstore.wsdot.wa.gov:WSDOT/Documents/_HQ/Bridge & Structures/Bridge Design/_Design Projects/544/BR 544-9/2024_New Bridge_XL6549/_DGN/_Sheets/156_WF Girder Details 2 of 5.dgn

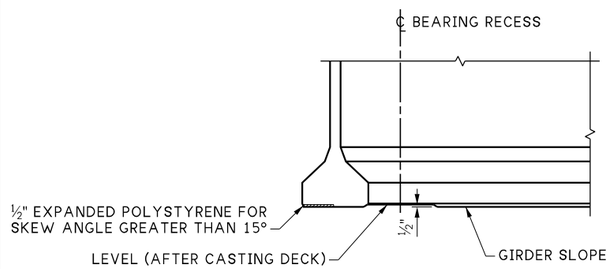


SAWTEETH DETAIL

SAWTEETH SHALL BE FULL WIDTH
OVER AREA SHOWN



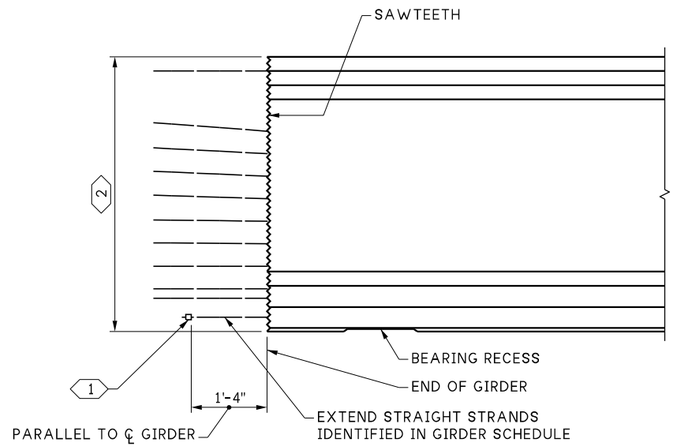
PLAN



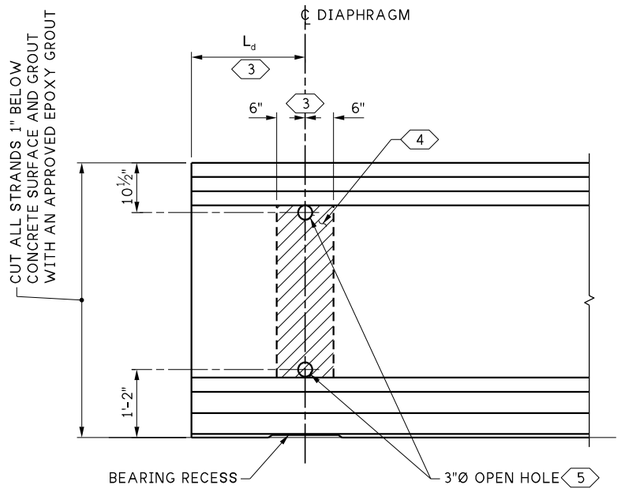
ELEVATION

BEARING RECESS AND BOTTOM FLANGE SPALL PROTECTION DETAIL

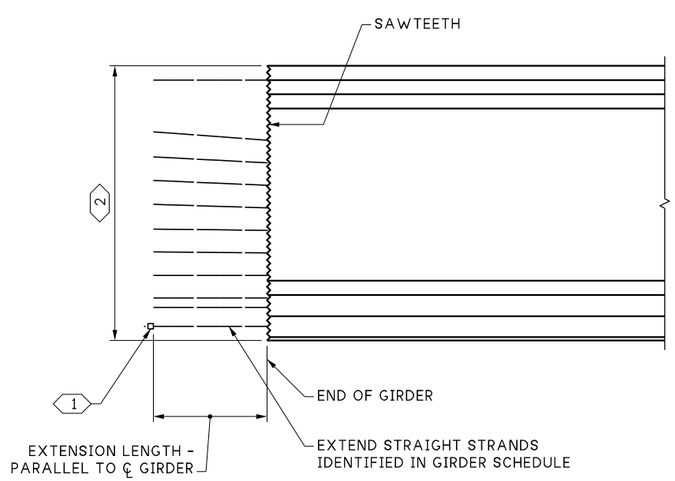
BEARING RECESS FORMS SHALL BE CONSTRUCTED AND FASTENED TO AVOID GIRDER DAMAGE DURING STRAND RELEASE



END TYPE A



END TYPE B



END TYPE D

KEY NOTES:

1. $1^{11}/_{16}$"Ø MIN. STRAND CHUCK OR ASTM A108 $2^{3}/_{4}$"Ø x $1^{1}/_{8}$" STRAND ANCHOR. ANCHOR STRAND WITH WEDGES BEFORE GIRDER ERECTION. VERIFY WEDGES ARE SEATED TIGHTLY IMMEDIATELY BEFORE PLACING DIAPHRAGM CONCRETE.
2. CUT ALL STRANDS FLUSH WITH THE GIRDER ENDS AND PAINT WITH AN APPROVED EPOXY RESIN, EXCEPT FOR EXTENDED STRANDS AS SHOWN.
3. MEASURED NORMAL TO ℄ DIAPHRAGM
4. APPLY APPROVED RETARDANT FOR ¼" ETCH TO SIDE FORMS OR ¼" ROUGHENED SURFACE TREATMENT BY APPROVED MECHANICAL METHOD. OMIT AT EXTERIOR FACE OF EXTERIOR GIRDERS.
5. ADJUST HOLE LOCATION VERTICALLY TO MISS HARPED STRANDS. OMIT HOLES AND PLACE INSERTS ON THE INTERIOR FACE OF EXTERIOR GIRDERS. PLACE HOLES AND INSERTS PARALLEL TO DIAPHRAGM CENTERLINE. INSERTS SHALL BE 1"Ø MEADOWBURKE MX-3 HI-TENSILE, 1"Ø MEADOWBURKE FX-19 FERULE INSERT, 1"Ø x 5½" WILLIAMS F22 OPEN FERRULE INSERT, 1"Ø x $4^{5}/_{8}$" DAYTON-SUPERIOR F-62 FLARED THIN SLAB FERRULE INSERT OR APPROVED EQUAL.

FILE NAME	157_WF Girder Details 3 of 5.dgn				
BRIDGE DES. ENG.	Leland, AC				
BRIDGE PROJ. ENG.					
SUPERVISOR	Aldrich, B				
DESIGNED BY	Vahedi, M	06/26			
CHECKED BY	Sawahata, D	07/26			
ENTERED BY	Brutzman, N	06/26			
PRELIM. PLAN BY					
ARCH. / SPEC.			REVISION	DATE	BY

REGION NO.	STATE
10	WASH
JOB NUMBER	
26A012	
CONTRACT NO.	

WSDOT

BRIAN S. ALDRICH — STATE OF WASHINGTON — 37834 — STRUCTURAL ENGINEER — PROFESSIONAL ENGINEER
SEE CERTIFICATION SHEET FOR STAMP BOX — DATE

AMY C. LELAND — STATE OF WASHINGTON — 39105 — STRUCTURAL ENGINEER — PROFESSIONAL ENGINEER
SEE CERTIFICATION SHEET FOR STAMP BOX — DATE

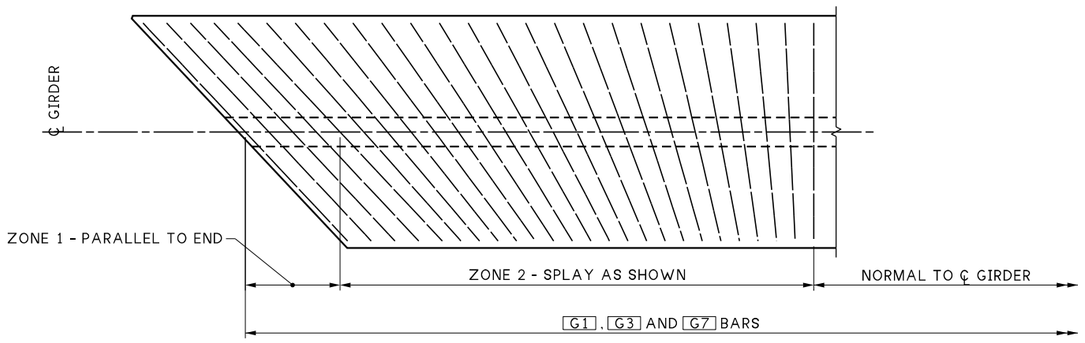
SR 544
NOOKSACK RIVER OVERFLOW CULVERT
ER PERMANENT REPAIR
NOOKSACK RIVER BRIDGE NO. 544/9

WF GIRDER
DETAILS 3 OF 5

PLAN REF NO
BA27

SHEET 81 OF 119 SHEETS

PLOT DATE: 23-Sep-2026 PLOT TIME: 11:34:39 AM PLOTTED BY: BrutzmN FILE PATH: pw://projectstore.wsdot.wa.gov:WSDOT/Documents/_HQ/Bridge & Structures/Bridge Design/_Design Projects/544/BR 544-9/2024_New Bridge_XL6549/_DGN/_Sheets/157_WF Girder Details 3 of 5.dgn



PLAN - TRANSVERSE REINFORCING AT SKEWED ENDS

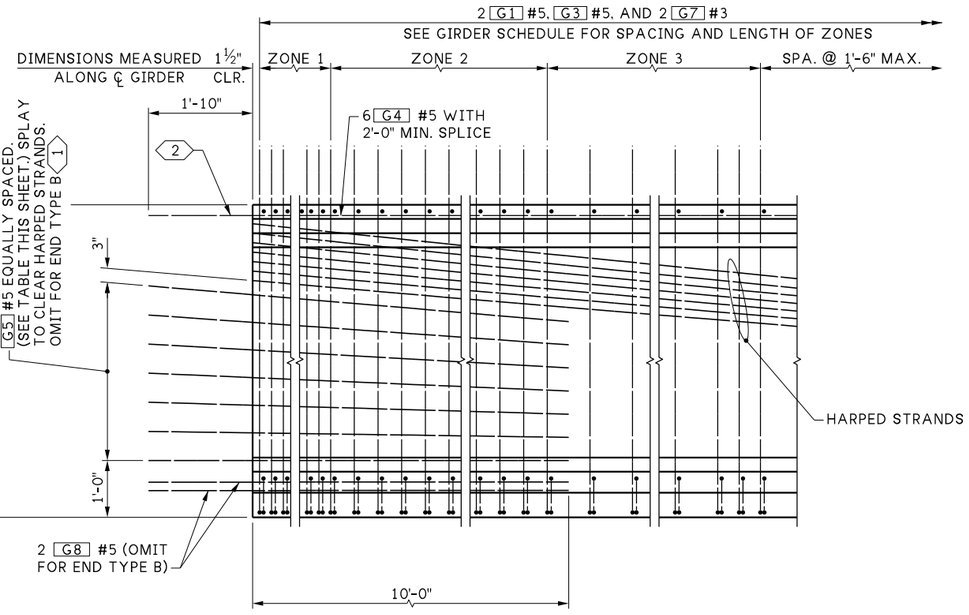
LENGTHS OF G3 AND G7 VARY WITH SKEW.
ONLY TRANSVERSE REINFORCEMENT SHOWN.

GIRDER SERIES	NO. OF G5 BARS
WF36G	3
WF42G	4
WF50G	5
WF58G	6
WF66G	7
WF74G	7
WF83G	8
WF95G	9
WF100G	10

GIRDER SERIES REINFORCEMENT TABLE

REINFORCEMENT NOTES:

1. DEFORMED WELDED WIRE REINFORCEMENT MAY BE SUBSTITUTED FOR MILD REINFORCEMENT IN ACCORDANCE WITH STANDARD SPECIFICATION 6-02.3(25)A.
2. REFER TO "BRIDGE DECK SECTION MID-SPAN" SHEET FOR PRE-BENT STIRRUP OPTION.

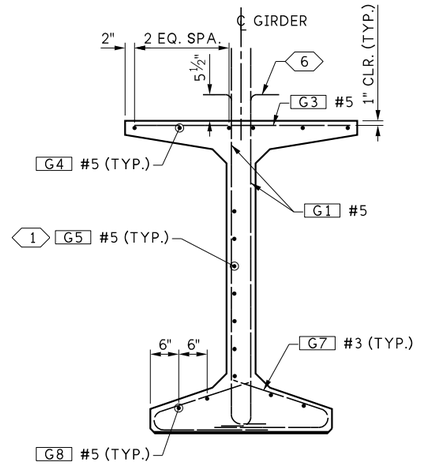


REINFORCEMENT END ELEVATION

STRAIGHT AND TEMPORARY STRANDS NOT SHOWN FOR CLARITY.
WF66G SHOWN, OTHERS SIMILAR.

KEY NOTES:

1. SEE "GIRDER SERIES REINFORCEMENT TABLE" ON THIS SHEET.
2. FIELD BEND G4 TO OBTAIN 1½" COVER AT PAVEMENT SEAT IF NECESSARY. DO NOT EXTEND AND PROVIDE 1½" CLR. TO GIRDER END FOR END TYPE B.
3. VARIES FOR SKEWED ENDS.
4. PAIRS OF G7 BARS, OR G9 AND G10 BARS MAY BE USED INTERCHANGEABLY AS BOTTOM FLANGE TIES.
5. G2 MAY BE SUBSTITUTED FOR 2 G1 WITHIN ZONE 1.
6. OPTIONAL PRE-BENT STIRRUPS. SEE BRIDGE DECK REINF. SHEETS.

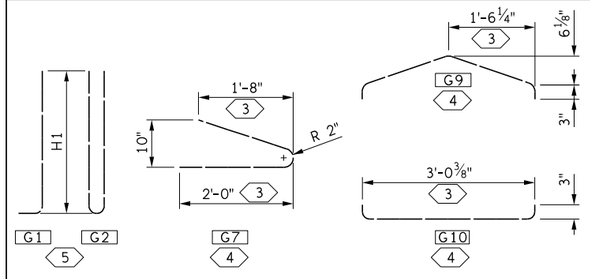


SECTION A

STRANDS NOT SHOWN

BENDING DIAGRAM

(ALL DIMENSIONS ARE OUT TO OUT)



FILE NAME	158_WF Girder Details 4 of 5.dgn				
BRIDGE DES. ENG.	Leland, AC				
BRIDGE PROJ. ENG.					
SUPERVISOR	Aldrich, B				
DESIGNED BY	Vahedi, M	06/26			
CHECKED BY	Sawahata, D	07/26			
ENTERED BY	Brutzman, N	06/26			
PRELIM. PLAN BY					
ARCH. / SPEC.			REVISION	DATE	BY

REGION NO. 10 | STATE WASH
JOB NUMBER 26A012
CONTRACT NO.

WSDOT

BRIAN S. ALDRICH — STATE OF WASHINGTON — 37834 — PROFESSIONAL ENGINEER
SEE CERTIFICATION SHEET
DATE
STAMP BOX

AMY C. LELAND — STATE OF WASHINGTON — 39195 — PROFESSIONAL ENGINEER
SEE CERTIFICATION SHEET
DATE
STAMP BOX

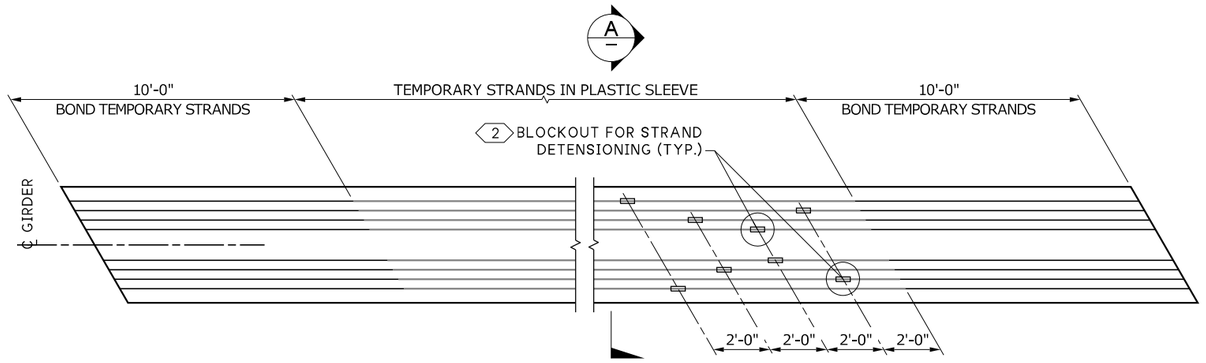
SR 544
NOOKSACK RIVER OVERFLOW CULVERT ER PERMANENT REPAIR
NOOKSACK RIVER BRIDGE NO. 544/9

WF GIRDER DETAILS 4 OF 5

PLAN REF NO
BA28

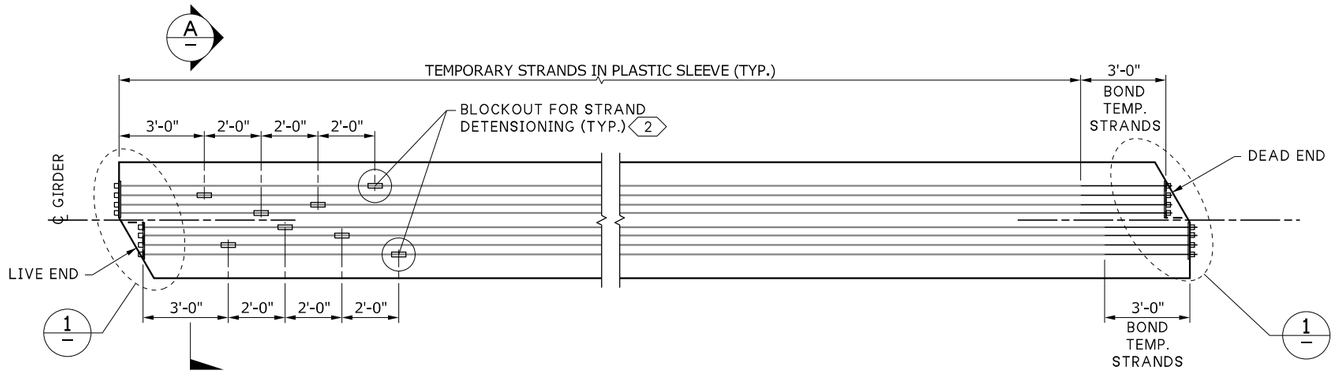
SHEET 82 OF 119 SHEETS

PLOT DATE: 23-Sep-2026 PLOT TIME: 11:34:45 AM PLOTTED BY: BrutzmN FILE PATH: pw://projectstore.wsdot.wa.gov:WSDOT/Documents/_HQ/Bridge & Structures/Bridge Design/_Design Projects/544/BR 544-9/2024_New Bridge_XL6549/_DGN/_Sheets/158_WF Girder Details 4 of 5.dgn



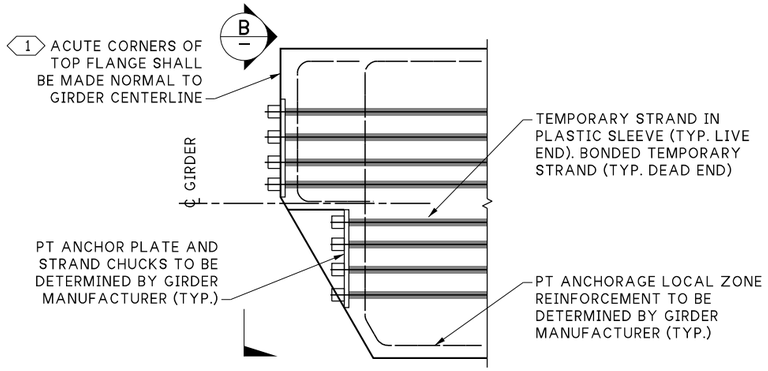
PLAN - TEMPORARY TOP STRANDS PRETENSIONED ALTERNATE

SEE GIRDER SCHEDULE FOR NUMBER OF TEMPORARY STRANDS REQUIRED.

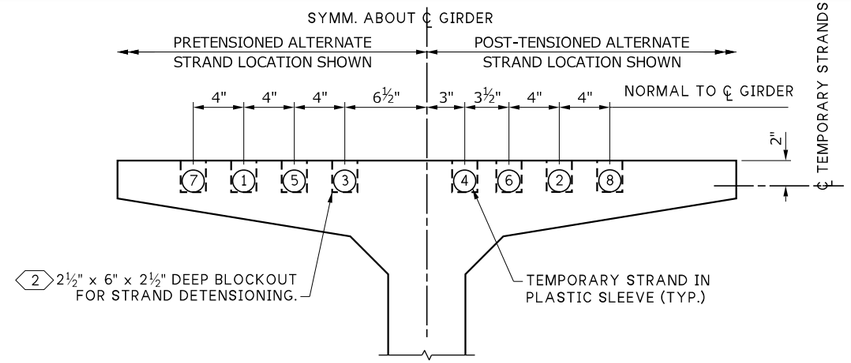


PLAN - TEMPORARY TOP STRANDS POST-TENSIONED ALTERNATE

SEE GIRDER SCHEDULE FOR NUMBER OF TEMPORARY STRANDS REQUIRED

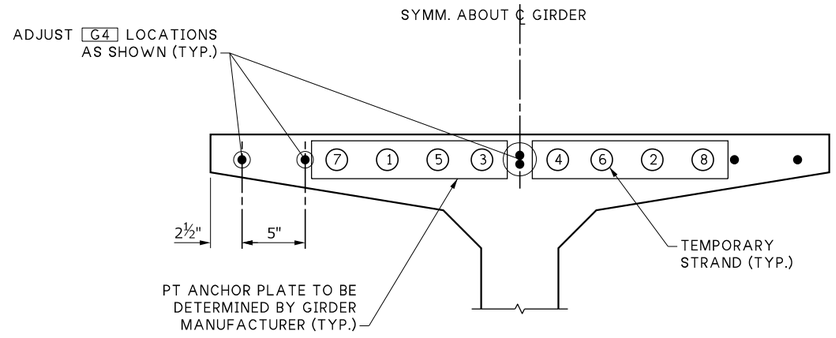


DETAIL 1 -- END DETAIL



SECTION A --

TEMPORARY STRAND LOCATION SEQUENCE SHALL BE AS SHOWN ①,② ETC.



VIEW B --

STRAND NOTES:

1. TEMPORARY STRANDS SHALL BE EITHER PRETENSIONED OR POST-TENSIONED IN ACCORDANCE WITH STANDARD SPECIFICATION SECTION 6-02.3(25)B.
2. FOR GIRDERS ERECTED ON A LONGITUDINAL GRADE, STRAND DETENSIONING BLOCKOUTS SHALL BE PLACED AT THE LOW END OF THE GIRDER.
3. SEE "TEMPORARY STRAND CUTTING SEQUENCE" ON CONSTRUCTION SEQUENCE SHEET FOR TEMPORARY STRAND DETENSIONING PROCEDURE.

KEY NOTES:

1 RECONFIGURE TOP FLANGE REINFORCEMENT ACCORDINGLY.

2 FORM WITH EXPANDED POLYSTYRENE. REMOVE POLYSTYRENE JUST PRIOR TO CUTTING THE TEMPORARY STRANDS AND PREVENT MOISTURE FROM ENTERING THE BLOCKOUT AS DESCRIBED IN THE TEMPORARY STRAND CUTTING SEQUENCE (TYP.)

FILE NAME	159_WF Girder Details 5 of 5.dgn				
BRIDGE DES. ENG.	Leland, AC				
BRIDGE PROJ. ENG.					
SUPERVISOR	Aldrich, B				
DESIGNED BY	Vahedi, M	06/26			
CHECKED BY	Sawahata, D	07/26			
ENTERED BY	Brutzman, N	06/26			
PRELIM. PLAN BY					
ARCH. / SPEC.			REVISION	DATE	BY

REGION NO.	STATE
10	WASH
JOB NUMBER	
26A012	
CONTRACT NO.	

WSDOT

BRIAN S. ALDRICH — STATE OF WASHINGTON — 37834 — PROFESSIONAL ENGINEER — SEE CERTIFICATION SHEET — DATE — STAMP BOX

AMY C. LELAND — STATE OF WASHINGTON — 39195 — PROFESSIONAL ENGINEER — SEE CERTIFICATION SHEET — DATE — STAMP BOX

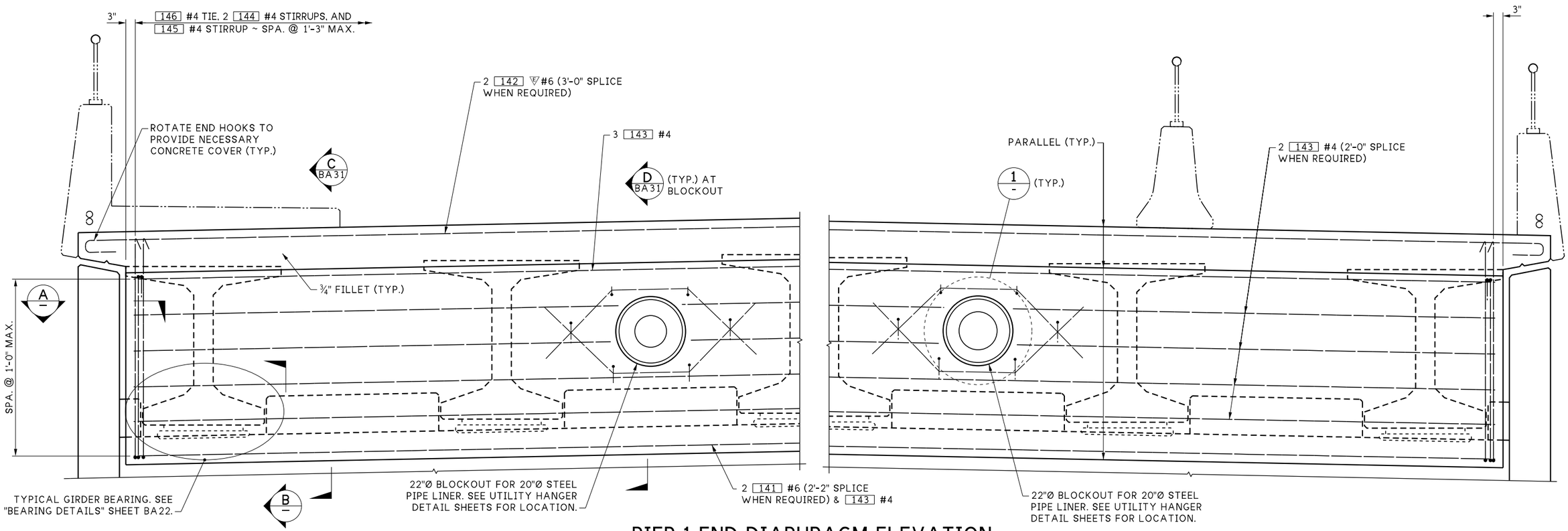
SR 544
NOOKSACK RIVER OVERFLOW CULVERT ER PERMANENT REPAIR
NOOKSACK RIVER BRIDGE NO. 544/9

WF GIRDER DETAILS 5 OF 5

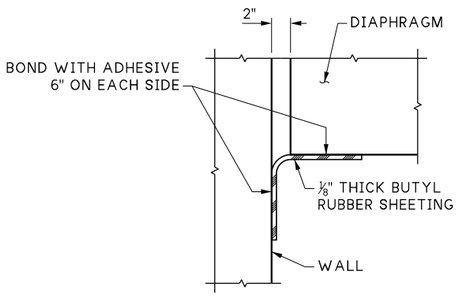
PLAN REF NO. BA29

SHEET 83 OF 119 SHEETS

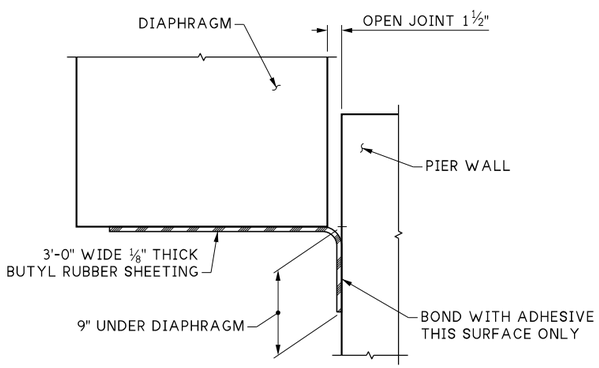
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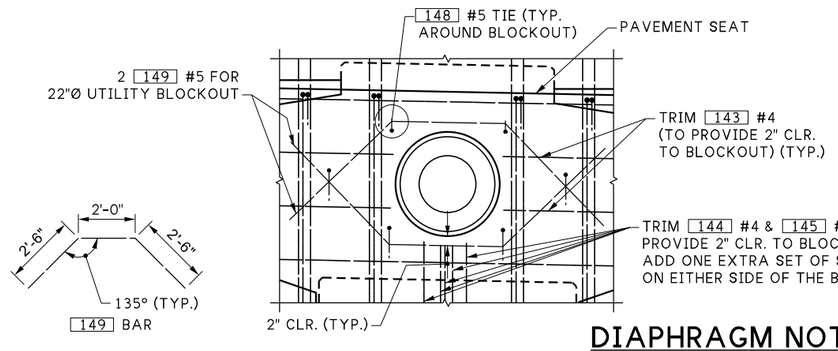
PIER 1 END DIAPHRAGM ELEVATION



SECTION A



SECTION B



DETAIL 1

DIAPHRAGM NOTES:

1. GIRDERS SHALL BE HELD RIGIDLY IN PLACE WHEN DIAPHRAGMS ARE PLACED.
2. CUT/RELEASE GIRDER TEMPORARY STRANDS BEFORE CASTING DIAPHRAGM. SEE TEMPORARY STRAND CUTTING SEQUENCE.
3. EXTENDED STRANDS AND GIRDER REINFORCING NOT SHOWN FOR CLARITY.

FILE NAME	161_PIER 1 END DIAPHRAGM DETAIL.dgn				
BRIDGE DES. ENG.	Leland, AC				
BRIDGE PROJ. ENG.					
SUPERVISOR	Aldrich, B				
DESIGNED BY	Vahedi, M	06/26			
CHECKED BY	Sawahata, D	07/26			
ENTERED BY	Brutzman, N	06/26			
PRELIM. PLAN BY					
ARCH. / SPEC.			REVISION	DATE	BY

REGION NO.	STATE
10	WASH
JOB NUMBER	
26A012	
CONTRACT NO.	

WSDOT

BRIAN S. ALDRICH — STATE OF WASHINGTON — 37834 — PROFESSIONAL ENGINEER
SEE CERTIFICATION SHEET
DATE
STAMP BOX

AMY C. LELAND — STATE OF WASHINGTON — 39195 — PROFESSIONAL ENGINEER
SEE CERTIFICATION SHEET
DATE
STAMP BOX

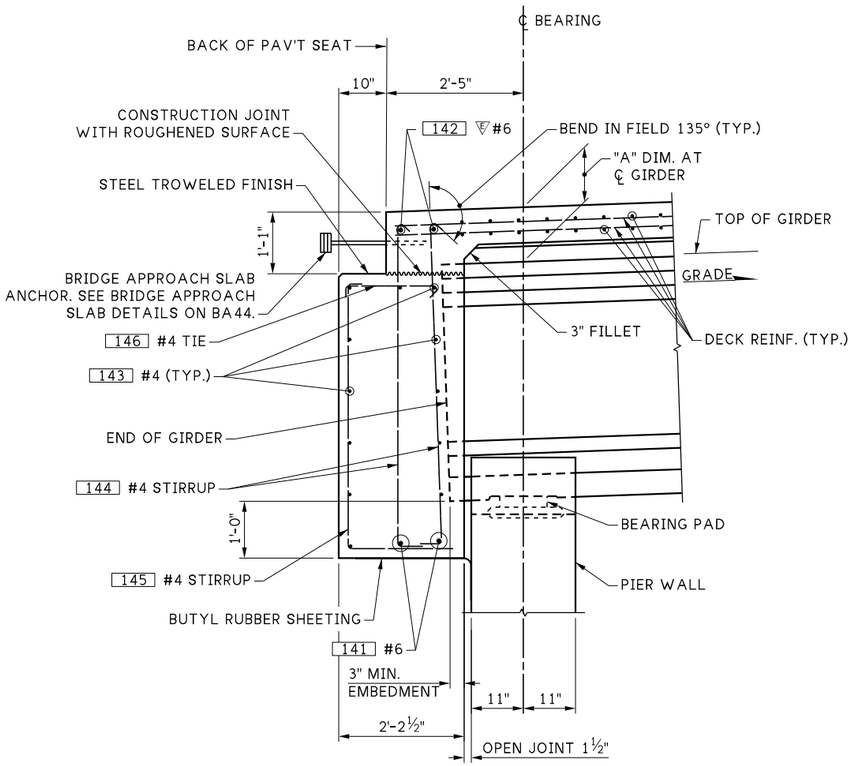
SR 544
NOOKSACK RIVER OVERFLOW CULVERT
ER PERMANENT REPAIR
NOOKSACK RIVER BRIDGE NO. 544/9

PIER 1
END DIAPHRAGM DETAILS 1 OF 2

PLAN REF NO
BA30

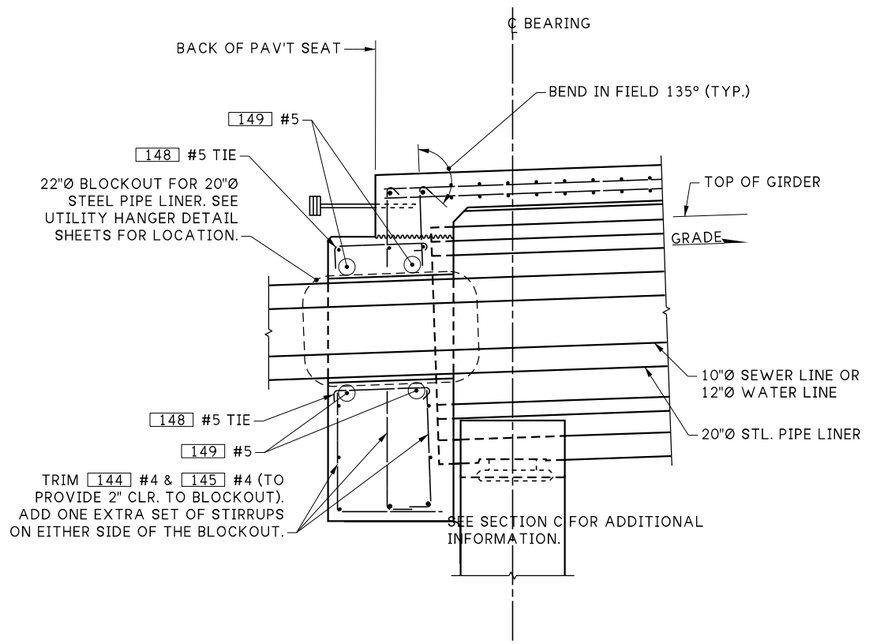
SHEET 84 OF 119 SHEETS

PLOT DATE: 23-Sep-2026 PLOT TIME: 11:34:53 AM PLOTTED BY: BrutzmN FILE PATH: pw://projectstore.wsdot.wa.gov:WSDOT/Documents/_HQ/Bridge & Structures/Bridge Design/_Design Projects/544/BR 544-9/2024_New Bridge_XL6549/_DGN/_Sheets/161_PIER 1 END DIAPHRAGM DETAIL.dgn



SECTION C BA30

SEE GIRDER SCHEDULE ON SHEET BA25 FOR DIMENSION "A". ALL LONGITUDINAL DIMENSIONS ARE NORMAL TO PIER WALL.



SECTION D BA30

FILE NAME	162_PIER 1 END DIAPHRAGM DETAIL 2.dgn				
BRIDGE DES. ENG.	Leland, AC				
BRIDGE PROJ. ENG.					
SUPERVISOR	Aldrich, B				
DESIGNED BY	Vahedi, M	06/26			
CHECKED BY	Sawahata, D	07/26			
ENTERED BY	Brutzman, N	06/26			
PRELIM. PLAN BY					
ARCH. / SPEC.			REVISION	DATE	BY

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26A012	
CONTRACT NO.	

WSDOT

BRIAN S. ALDRICH — STATE OF WASHINGTON — 37834 — PROFESSIONAL ENGINEER
SEE CERTIFICATION SHEET
DATE
STAMP BOX

AMY C. LELAND — STATE OF WASHINGTON — 39195 — PROFESSIONAL ENGINEER
SEE CERTIFICATION SHEET
DATE
STAMP BOX

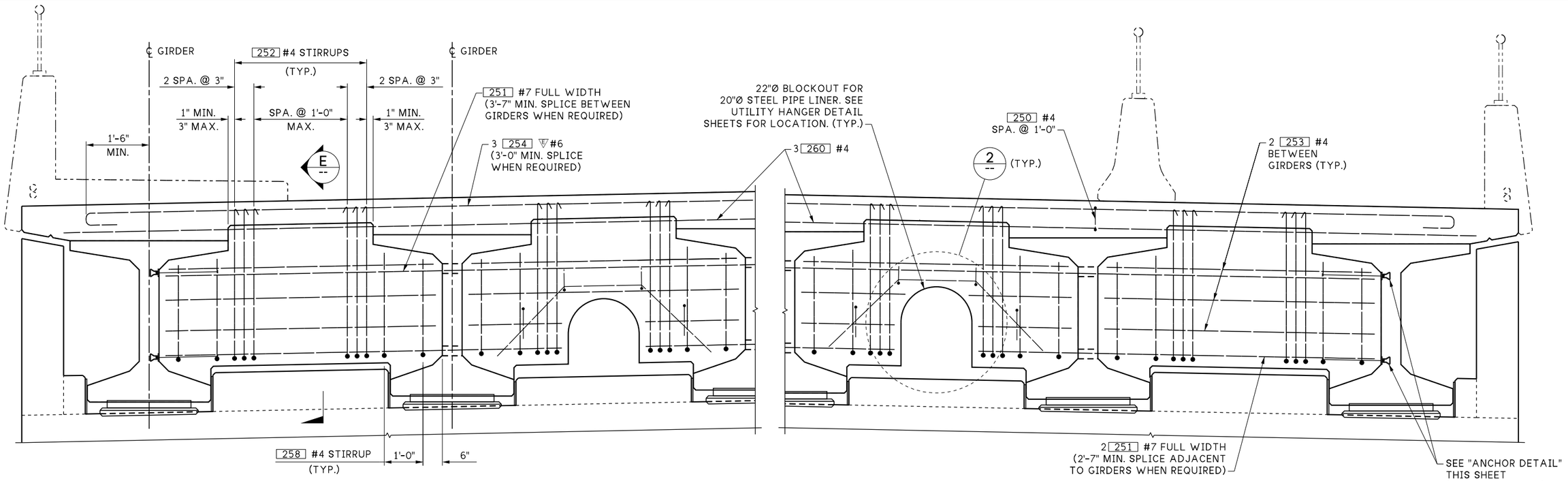
SR 544
NOOKSACK RIVER OVERFLOW CULVERT
ER PERMANENT REPAIR
NOOKSACK RIVER BRIDGE NO. 544/9

PIER 1
END DIAPHRAGM DETAILS 2 OF 2

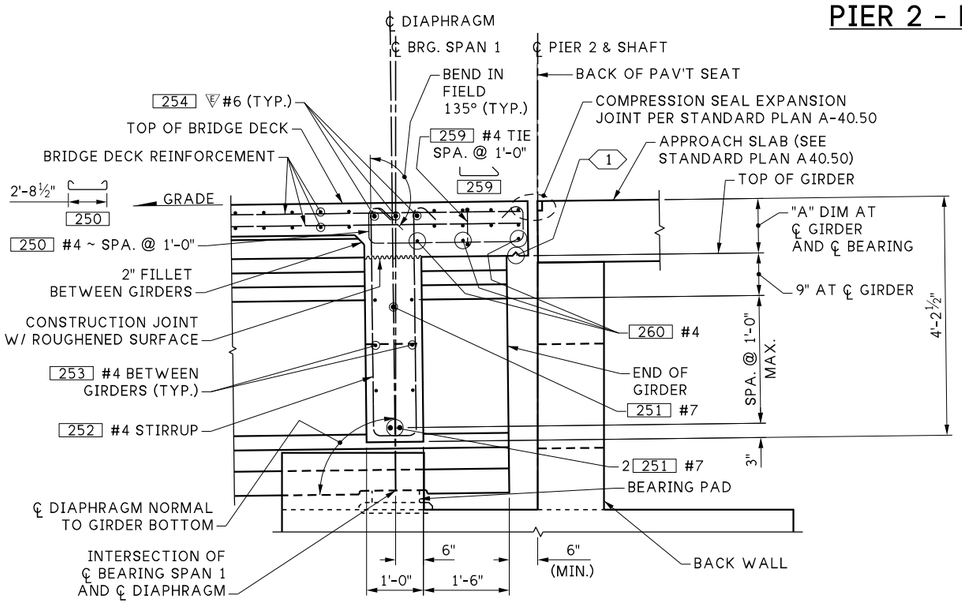
PLAN REF NO
BA31

SHEET 85 OF 119 SHEETS

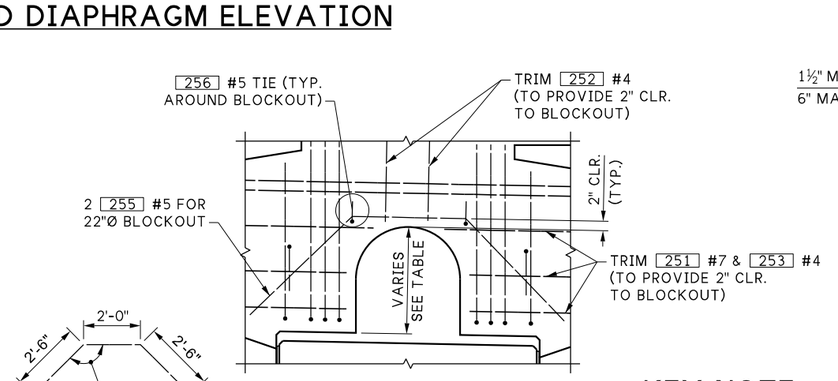
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PIER 2 - END DIAPHRAGM ELEVATION

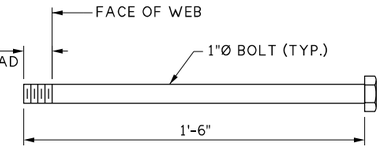


SECTION E
LONGITUDINAL DIMENSIONS ARE NORMAL TO DIAPHRAGM



DETAIL 2

DIAPHRAGM BLOCKOUT HEIGHTS		
	10"Ø SEWER LINE	12"Ø WATER LINE
℄ PIER 2 END DIAPHRAGM	1'-8⅛"	2'-0¾"



ANCHOR DETAIL
ASTM A307

KEY NOTE:
1 ¾" CHAMFER OR ½" HALF ROUND DRIP GROOVE MIDWAY BETWEEN END OF GIRDER AND EDGE OF DECK.

DIAPHRAGM NOTES:
1. GIRDERS SHALL BE HELD RIGIDLY IN PLACE WHEN DIAPHRAGMS ARE PLACED.
2. CUT/RELEASE GIRDER TEMPORARY STRANDS BEFORE CASTING DIAPHRAGM. SEE TEMPORARY STRAND CUTTING SEQUENCE.
3. EXTENDED STRANDS AND GIRDER REINFORCING NOT SHOWN FOR CLARITY.
4. IT MAY BE NECESSARY TO THREAD #7 REINFORCING BARS THROUGH HOLES IN GIRDERS PRIOR TO PLACING EXTERIOR GIRDERS.
5. FOR CONCRETE PLACEMENT PROCEDURE SEE CONSTRUCTION SEQUENCE SHEETS.

FILE NAME	165_PIER 2 END DIAPHRAGM DETAIL.dgn			
BRIDGE DES. ENG.	Leland, AC			
BRIDGE PROJ. ENG.				
SUPERVISOR	Aldrich, B			
DESIGNED BY	Vahedi, M	06/26		
CHECKED BY	Sawahata, D	07/26		
ENTERED BY	Wrenn, M	06/26		
PRELIM. PLAN BY				
ARCH. / SPEC.		REVISION	DATE	BY

REGION NO.	STATE
10	WASH
JOB NUMBER	26A012
CONTRACT NO.	

WSDOT

BRIAN S. ALDRICH — STATE OF WASHINGTON — 57834 — PROFESSIONAL ENGINEER
SEE CERTIFICATION SHEET
DATE
STAMP BOX

AMY C. LELAND — STATE OF WASHINGTON — 29195 — PROFESSIONAL ENGINEER
SEE CERTIFICATION SHEET
DATE
STAMP BOX

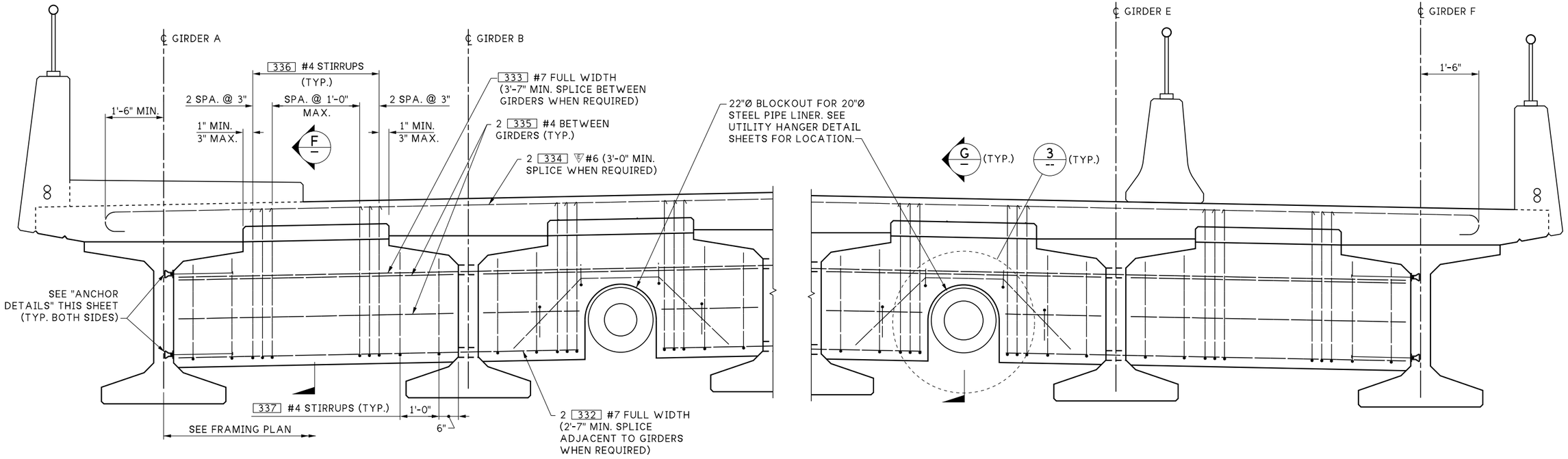
SR 544
NOOKSACK RIVER OVERFLOW CULVERT
ER PERMANENT REPAIR
NOOKSACK RIVER BRIDGE NO. 544/9

PIER 2
END DIAPHRAGM DETAIL

PLAN REF NO
BA32

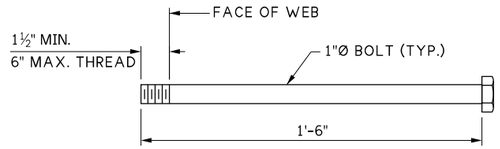
SHEET 86 OF 119 SHEETS

PLOT DATE: 23-Sep-2026 PLOT TIME: 11:34:59 AM PLOTTED BY: BrutzmN FILE PATH: pw://projectstore.wsdot.wa.gov:WSDOT/Documents/_HQ/Bridge & Structures/Bridge Design/_Design Projects/544/BR 544-9/2024_New Bridge_XL6549/_DGN/_Sheets/165_PIER 2 END DIAPHRAGM DETAIL.dgn



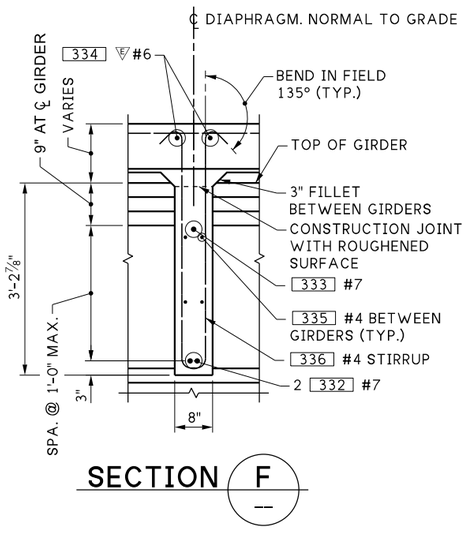
ELEVATION
FULL DEPTH INTERMEDIATE DIAPHRAGM

DIMENSIONS ARE ALONG DIAPHRAGMS

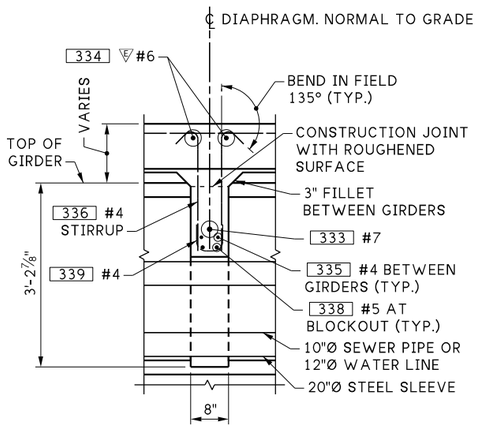


ANCHOR DETAIL

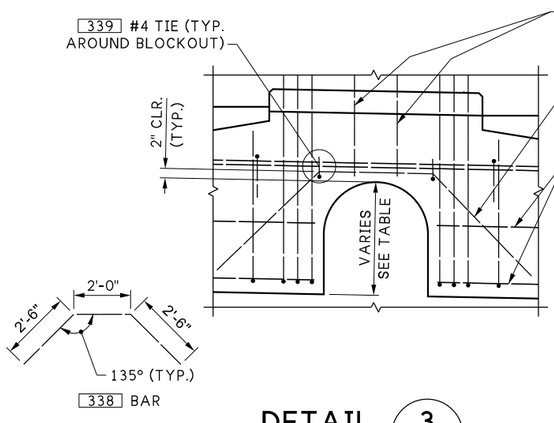
ASTM A307



SECTION F
--



SECTION G
--



DETAIL 3
--

DIAPHRAGM BLOCKOUT HEIGHTS		
	10"Ø SEWER LINE	12"Ø WATER LINE
℄ INTERMEDIATE DIAPHRAGM 1	1'-11"	1'-11¾"
℄ INTERMEDIATE DIAPHRAGM 2	1'-8¼"	1'-10⅛"

DIAPHRAGM NOTES:

1. GIRDERS SHALL BE HELD RIGIDLY IN PLACE WHEN DIAPHRAGMS ARE PLACED.
2. IT MAY BE NECESSARY TO THREAD REINFORCING BARS THROUGH HOLES IN GIRDERS PRIOR TO PLACING EXTERIOR GIRDERS.
3. CUT/RELEASE GIRDER TEMPORARY STRANDS BEFORE CASTING DIAPHRAGM. SEE TEMPORARY STRAND CUTTING SEQUENCE.
4. LONGITUDINAL DIMENSIONS ARE NORMAL TO SKEW.
5. FOR CONCRETE PLACEMENT PROCEDURE SEE "SUPERSTRUCTURE CONSTRUCTION SEQUENCE" SHEET.

FILE NAME	171_FULL DEPTH DIAPHRAGM.dgn				
BRIDGE DES. ENG.	Leland, AC				
BRIDGE PROJ. ENG.					
SUPERVISOR	Aldrich, B				
DESIGNED BY	Vahedi, M	06/26			
CHECKED BY	Sawahata, D	07/26			
ENTERED BY	Brutzman, N	06/26			
PRELIM. PLAN BY					
ARCH. / SPEC.			REVISION	DATE	BY

REGION NO.	STATE
10	WASH
JOB NUMBER	
26A012	
CONTRACT NO.	

WSDOT

BRIAN S. ALDRICH — STATE OF WASHINGTON — 37834 — PROFESSIONAL ENGINEER
SEE CERTIFICATION SHEET
DATE
STAMP BOX

AMY C. LELAND — STATE OF WASHINGTON — 39195 — PROFESSIONAL ENGINEER
SEE CERTIFICATION SHEET
DATE
STAMP BOX

SR 544
NOOKSACK RIVER OVERFLOW CULVERT
ER PERMANENT REPAIR

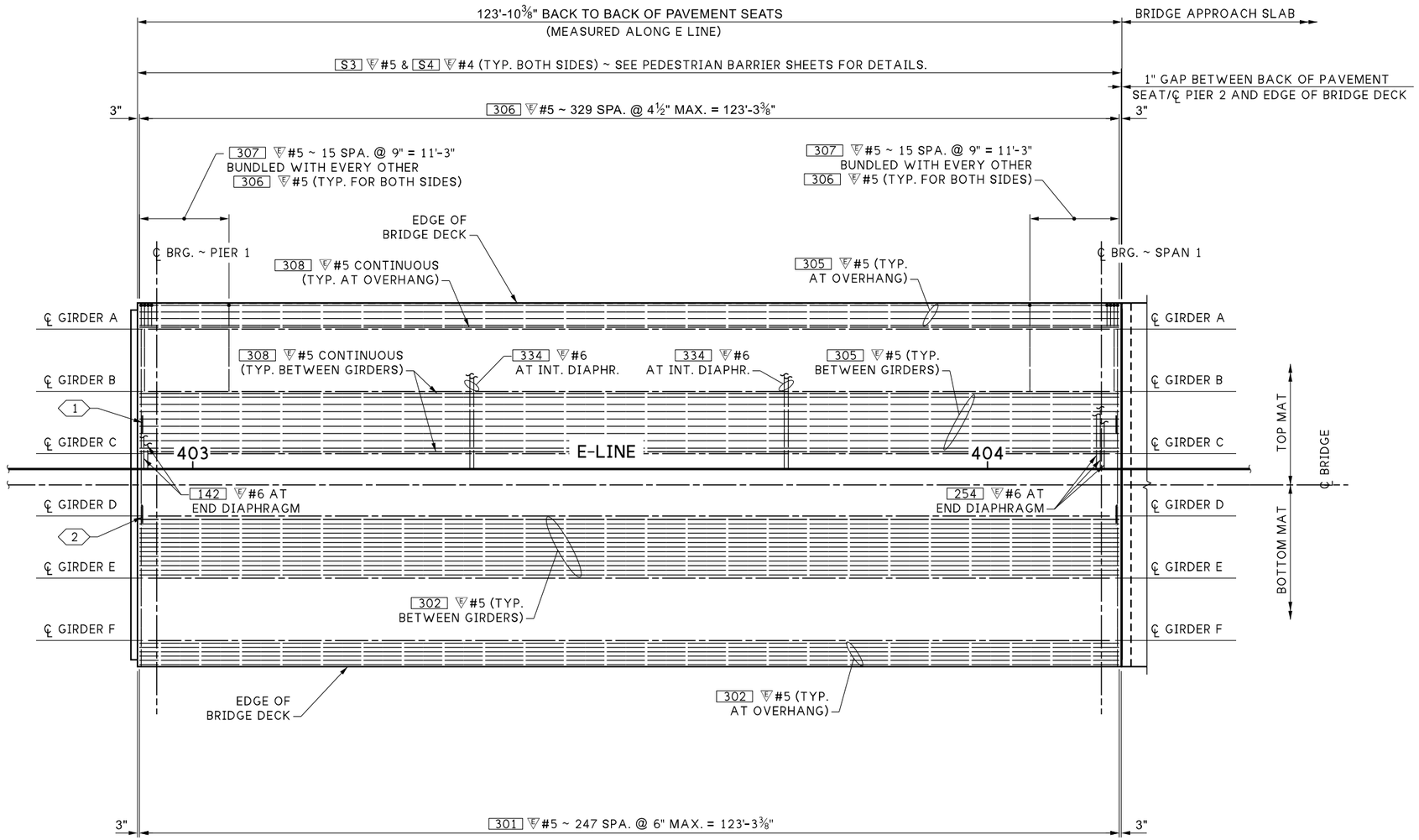
NOOKSACK RIVER BRIDGE NO. 544/9

INTERMEDIATE DIAPHRAGM
FULL DEPTH - DETAILS

PLAN REF NO
BA33

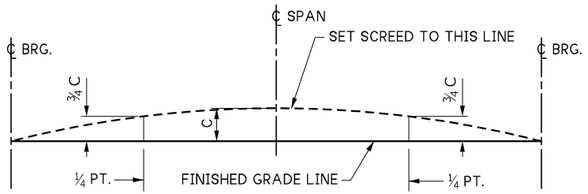
SHEET 87 OF 119 SHEETS

PLOT DATE: 23-Sep-2026 PLOT TIME: 11:35:03 AM PLOTTED BY: BrutzmN FILE PATH: pw://projectstore.wsdot.wa.gov:WSDOT/Documents/_HQ/Bridge & Structures/Bridge Design/_Design Projects/544/BR 544-9/2024_New Bridge_XL6549/_DGN/_Sheets/171_FULL DEPTH DIAPHRAGM



BRIDGE DECK REINFORCEMENT PLAN

FOR REINFORCEMENT NOT SHOWN, SEE "END DIAPHRAGM" AND "INTERMEDIATE DIAPHRAGM" SHEETS. TRANSVERSE REINFORCING MEASURED AT AND ALONG E-LINE.



SCREED SETTING DIMENSIONS

FOR DIMENSION "C" SEE GIRDER SCHEDULE

KEY NOTES:

1. 2'-6" MIN. LAP SPLICE CENTERED BETWEEN GIRDERS. ALTERNATE SPLICE ON ADJACENT REINFORCEMENT BETWEEN GIRDERS B & C AND GIRDERS D & E.
2. PERMISSIBLE 2'-6" MIN. LAP SPLICE CENTERED OVER GIRDER. ALTERNATE SPLICE ON ADJACENT REINFORCEMENT OVER GIRDERS C AND D.

REINFORCEMENT NOTES:

1. MIN. LAP SPLICE LENGTH UNLESS NOTED: #4 - 2'-0", #5 - 2'-6", #6 - 3'-0", #7 - 4'-0"
2. DO NOT SPLICE MORE THAN 50% OF BARS AT ANY ONE LOCATION UNLESS AS NOTED. STAGGER SPLICES A MINIMUM OF 2'-6".

FILE NAME	190_BR DECK 1.dgn				
BRIDGE DES. ENG.	Leland, AC				
BRIDGE PROJ. ENG.					
SUPERVISOR	Aldrich, B				
DESIGNED BY	Vahedi, M	06/26			
CHECKED BY	Sawahata, D	07/26			
ENTERED BY	Brutzman, N	06/26			
PRELIM. PLAN BY					
ARCH. / SPEC.			REVISION	DATE	BY

REGION NO.	STATE
10	WASH

JOB NUMBER 26A012

CONTRACT NO.

WSDOT

BRIAN S. ALDRICH — STATE OF WASHINGTON — 37834 — PROFESSIONAL ENGINEER
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DATE
STAMP BOX

AMY C. LELAND — STATE OF WASHINGTON — 39195 — PROFESSIONAL ENGINEER
SEE CERTIFICATION SHEET
DATE
STAMP BOX

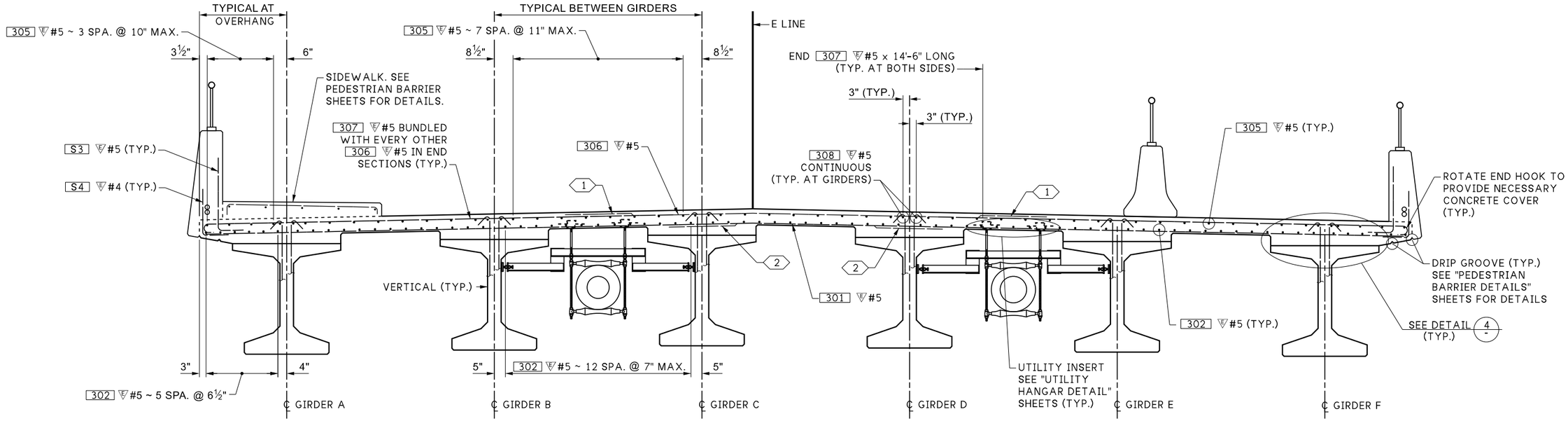
SR 544
NOOKSACK RIVER OVERFLOW CULVERT ER PERMANENT REPAIR
NOOKSACK RIVER BRIDGE NO. 544/9

BRIDGE DECK REINFORCEMENT PLAN

PLAN REF NO
BA34

SHEET 88 OF 119 SHEETS

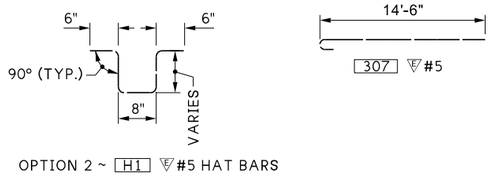
PLOT DATE: 23-Sep-2026 PLOT TIME: 11:35:08 AM PLOTTED BY: BrutzmN FILE PATH: pw://projectstore.wsdot.wa.gov:WSDOT/Documents/_HQ/Bridge & Structures/Bridge Design/_Design Projects/544/BR 544-9/2024_New Bridge_XL6549/_DGN/_Sheets/190_BR DECK 1.dgn



BRIDGE DECK REINFORCEMENT SECTION NEAR MID-SPAN

BENDING DIAGRAM

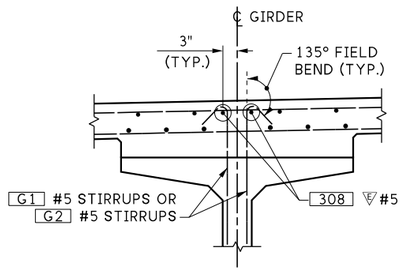
ALL DIMENSIONS ARE OUT TO OUT



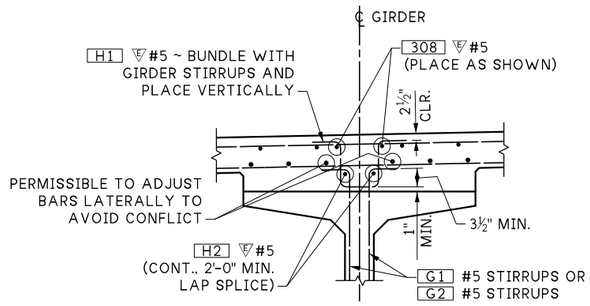
OPTION 2 ~ H1 #5 HAT BARS

KEY NOTES:

1. 2'-6" MIN. LAP SPLICE CENTERED BETWEEN GIRDERS. ALTERNATE SPLICE ON ADJACENT REINFORCEMENT BETWEEN GIRDERS B & C AND GIRDERS D & E.
2. PERMISSIBLE 2'-6" MIN. LAP SPLICE CENTERED OVER GIRDER. ALTERNATE SPLICE ON ADJACENT REINFORCEMENT OVER GIRDERS C AND D.



OPTION 1 - FIELD BENT STIRRUP



OPTION 2 - PRE-BENT STIRRUP

H1 #5 MAY BE OMITTED WHERE GIRDER STIRRUPS PROJECT AT LEAST 3" ABOVE THE BOTTOM OF THE BOTTOM MAT TRANSVERSE BAR.

DETAIL 4 / --

FILE NAME	193_BR DECK SECT_NEAR MID SPAN.dgn				
BRIDGE DES. ENG.	Leland, AC				
BRIDGE PROJ. ENG.					
SUPERVISOR	Aldrich, B				
DESIGNED BY	Vahedi, M	06/26			
CHECKED BY	Sawahata, D	07/26			
ENTERED BY	Brutzman, N	06/26			
PRELIM. PLAN BY					
ARCH. / SPEC.			REVISION	DATE	BY

REGION NO.	STATE
10	WASH
JOB NUMBER	26A012
CONTRACT NO.	

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AMY C. LELAND, STATE OF WASHINGTON, 39195, PROFESSIONAL ENGINEER — SEE CERTIFICATION SHEET — DATE — STAMP BOX

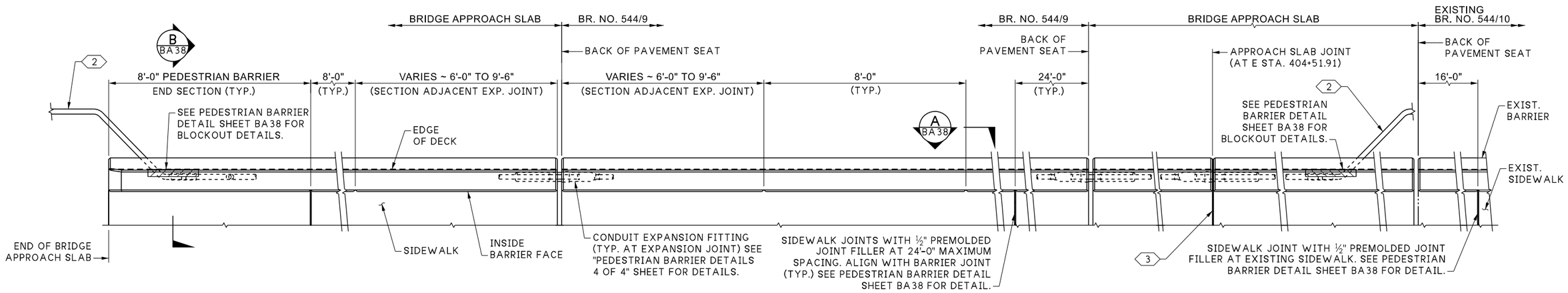
SR 544
NOOKSACK RIVER OVERFLOW CULVERT
ER PERMANENT REPAIR
NOOKSACK RIVER BRIDGE NO. 544/9

BRIDGE DECK SECTION
MID-SPAN

PLAN REF NO
BA35

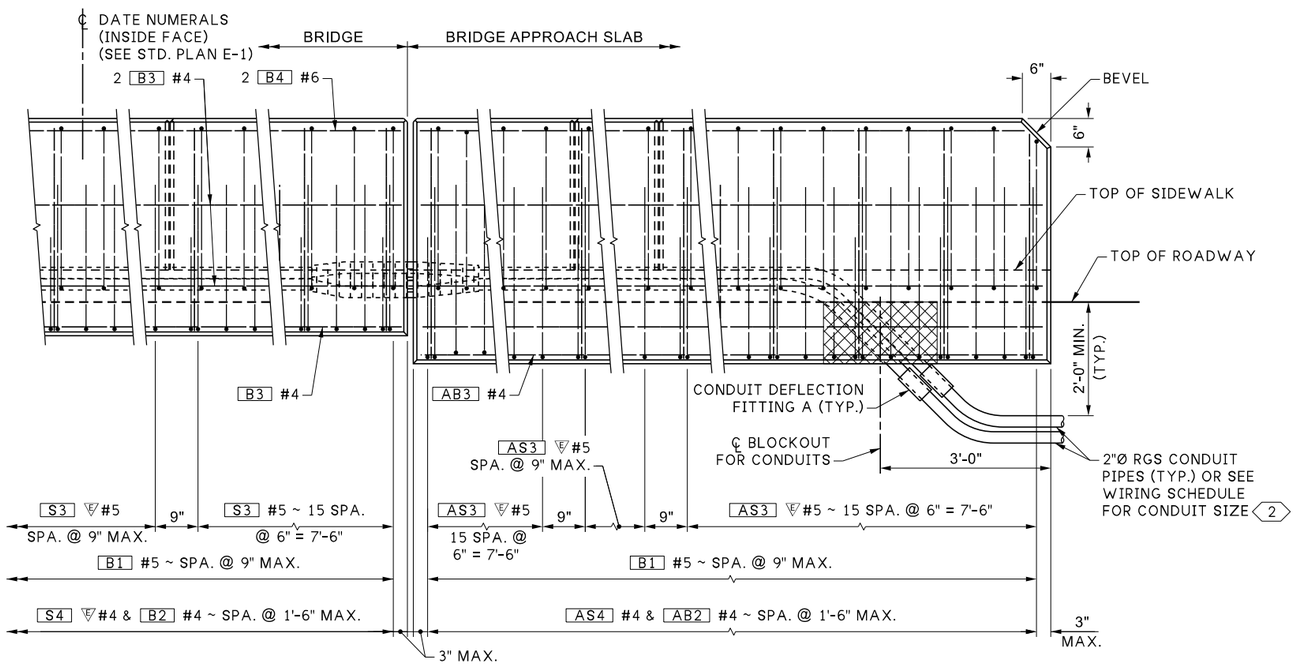
SHEET 89 OF 119 SHEETS

PLOT DATE: 29-Sep-2026 PLOT TIME: 2:03:33 PM PLOTTED BY: BrutzmN FILE PATH: pw://projectstore.wsdot.wa.gov:WSDOT/Documents/_HQ/Bridge & Structures/Bridge Design/_Design Projects/544/BR 544-9/2024_New Bridge_XL6549/_DGN/_Sheets/193_BR DECK SECT_NEAR MID SPAN.dgn



PLAN LEFT PEDESTRIAN BARRIER

BARRIER CONTINUOUS BETWEEN BRIDGE DECK EXPANSION JOINTS.
CONSTRUCTION JOINTS WITH SHEAR KEYS ARE PERMISSIBLE AT DUMMY JOINT LOCATIONS.
FORM JOINTS BETWEEN DUMMY JOINTS SHALL NOT BE PERMITTED.

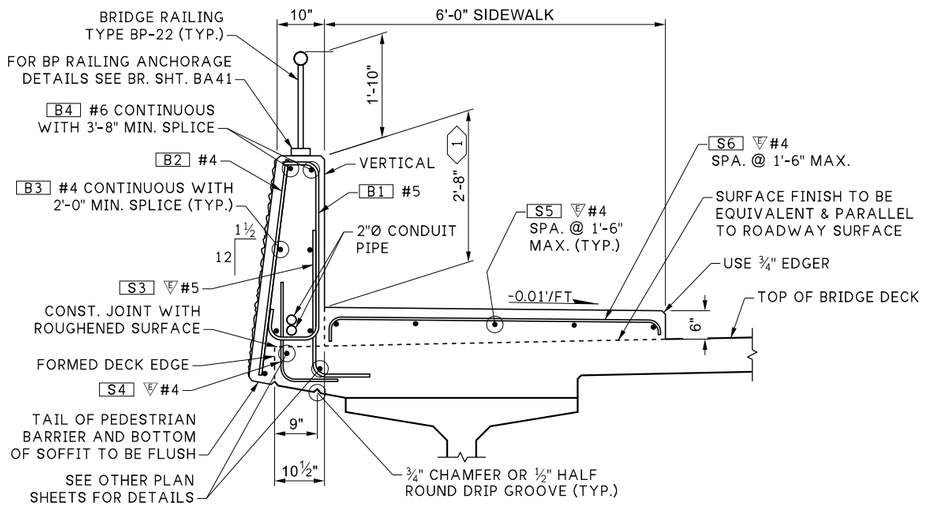


OUTSIDE ELEVATION END OF LEFT PEDESTRIAN BARRIER

SHOWN WITH BRIDGE APPROACH SLAB

KEY NOTES:

1. MIN. HEIGHT. PEDESTRIAN BARRIER HEIGHT MAY VARY IF REQUIRED TO PROVIDE SMOOTH PROFILE.
2. TERMINATE EACH CONDUIT PIPE AT SEPARATE JUNCTION BOXES OFF END OF BRIDGE AS SHOWN IN LAYOUT.
3. EXPANSION JOINT IN PEDESTRIAN BARRIER: PROVIDE AS3 AND AS4 BARS AT SPACING SIMILAR TO THAT PROVIDED BETWEEN THE APPROACH SLAB AND BRIDGE ON EACH SIDE OF THE JOINT.



TYPICAL SECTION LEFT PEDESTRIAN BARRIER

SHOWN ON BRIDGE

FILE NAME	201_PEDESTRIAN BARRIER 1.dgn				
BRIDGE DES. ENG.	Leland, AC				
BRIDGE PROJ. ENG.					
SUPERVISOR	Aldrich, B				
DESIGNED BY	Vahedi, M	06/26			
CHECKED BY	Sawahata, D	07/26			
ENTERED BY	Brutzman, N	06/26			
PRELIM. PLAN BY					
ARCH. / SPEC.			REVISION	DATE	BY

REGION NO.	STATE
10	WASH
JOB NUMBER	
26A012	
CONTRACT NO.	

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DATE
STAMP BOX

AMY C. LELAND — STATE OF WASHINGTON — 39195 — PROFESSIONAL ENGINEER
SEE CERTIFICATION SHEET
DATE
STAMP BOX

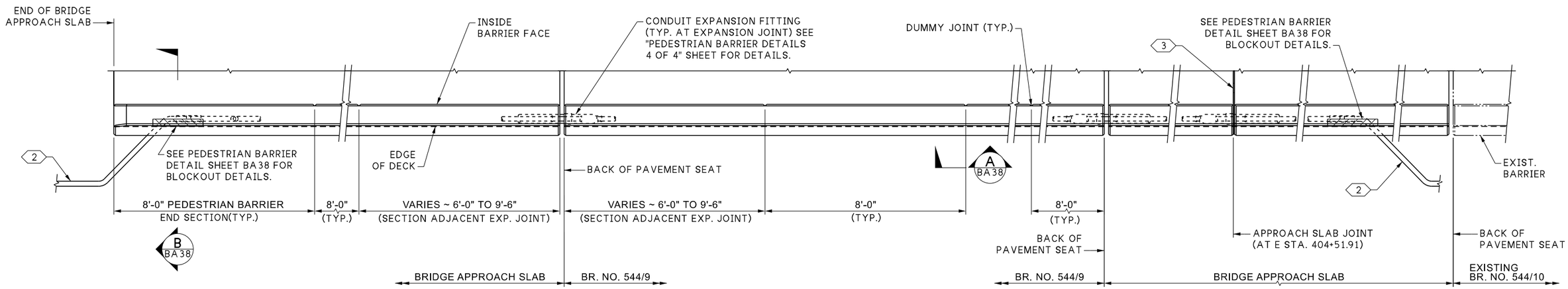
SR 544
NOOKSACK RIVER OVERFLOW CULVERT
ER PERMANENT REPAIR
NOOKSACK RIVER BRIDGE NO. 544/9

PEDESTRIAN BARRIER
DETAILS 1 OF 4

PLAN REF NO
BA36

SHEET 90 OF 119 SHEETS

PLOT DATE: 30-Sep-2026 PLOT TIME: 9:58:20 AM PLOTTED BY: BrutzmN FILE PATH: pw://projectstore.wsdot.wa.gov:WSDOT/Documents/_HQ/Bridge & Structures/Bridge Design/_Design Projects/544/BR 544-9/2024_New Bridge_XL6549/_DGN/_Sheets/201_PEDESTRIAN BARRIER 1.dgn

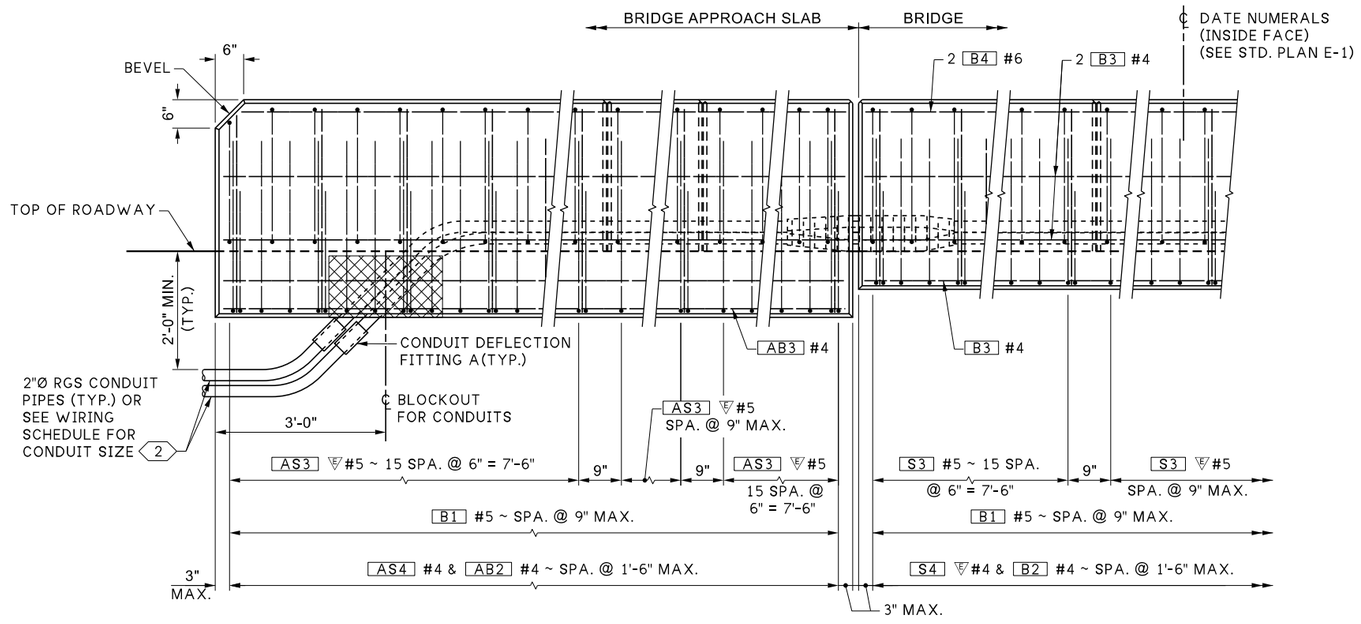


PLAN RIGHT PEDESTRIAN BARRIER

BARRIER CONTINUOUS BETWEEN BRIDGE DECK EXPANSION JOINTS.
CONSTRUCTION JOINTS WITH SHEAR KEYS ARE PERMISSIBLE AT DUMMY JOINT LOCATIONS.
FORM JOINTS BETWEEN DUMMY JOINTS SHALL NOT BE PERMITTED.

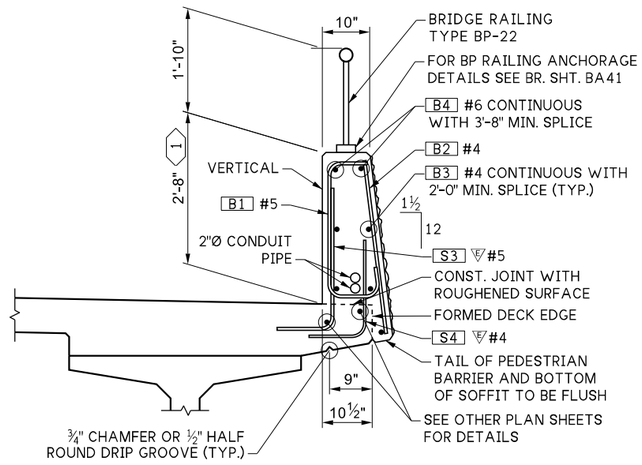
KEY NOTES:

1. MIN. HEIGHT. PEDESTRIAN BARRIER HEIGHT MAY VARY IF REQUIRED TO PROVIDE SMOOTH PROFILE.
2. TERMINATE EACH CONDUIT PIPE AT SEPARATE JUNCTION BOXES OFF END OF BRIDGE AS SHOWN IN LAYOUT.
3. EXPANSION JOINT IN PEDESTRIAN BARRIER: PROVIDE AS3 AND AS4 BARS AT SPACING SIMILAR TO THAT PROVIDED BETWEEN THE APPROACH SLAB AND BRIDGE ON EACH SIDE OF THE JOINT.



OUTSIDE ELEVATION END OF RIGHT PEDESTRIAN BARRIER

SHOWN WITH BRIDGE APPROACH SLAB



TYPICAL SECTION RIGHT PEDESTRIAN BARRIER

SHOWN ON BRIDGE

FILE NAME	202_PEDESTRIAN BARRIER 2.dgn				
BRIDGE DES. ENG.	Leland, AC				
BRIDGE PROJ. ENG.					
SUPERVISOR	Aldrich, B				
DESIGNED BY	Vahedi, M	06/26			
CHECKED BY	Sawahata, D	07/26			
ENTERED BY	Brutzman, N	06/26			
PRELIM. PLAN BY					
ARCH. / SPEC.			REVISION	DATE	BY

REGION NO.	STATE
10	WASH
JOB NUMBER	
26A012	
CONTRACT NO.	

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BRIAN S. ALDRICH — STATE OF WASHINGTON — 37834 — PROFESSIONAL ENGINEER
SEE CERTIFICATION SHEET
DATE
STAMP BOX

AMY C. LELAND — STATE OF WASHINGTON — 39195 — PROFESSIONAL ENGINEER
SEE CERTIFICATION SHEET
DATE
STAMP BOX

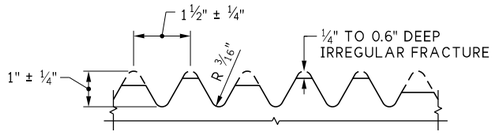
SR 544
NOOKSACK RIVER OVERFLOW CULVERT ER PERMANENT REPAIR
NOOKSACK RIVER BRIDGE NO. 544/9

PEDESTRIAN BARRIER DETAILS 2 OF 4

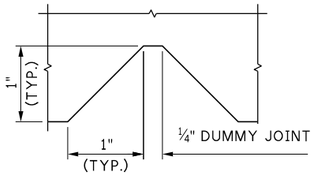
PLAN REF NO
BA37

SHEET 91 OF 119 SHEETS

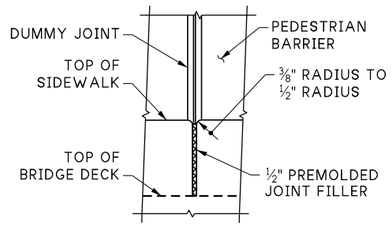
PLOT DATE: 30-Sep-2026 PLOT TIME: 9:58:28 AM PLOTTED BY: BrutzmN FILE PATH: pw://projectstore.wsdot.wa.gov:WSDOT/Documents/_HQ/Bridge & Structures/Bridge Design/_Design Projects/544/BR 544-9/2024_New Bridge_XL6549/_DGN/_Sheets/202_PEDESTRIAN BARRIER 2.dgn



FRACTURED FIN FINISH

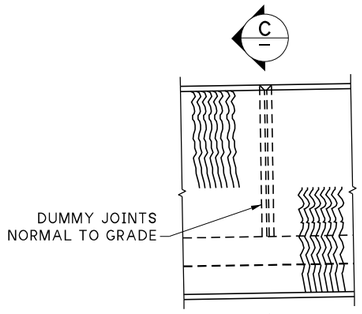


DUMMY JOINT DETAIL



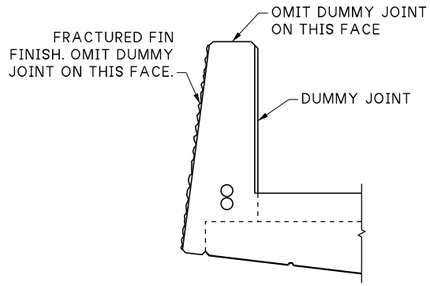
SIDEWALK JOINT DETAIL

SIDEWALK REINFORCING STEEL NOT SHOWN FOR CLARITY.

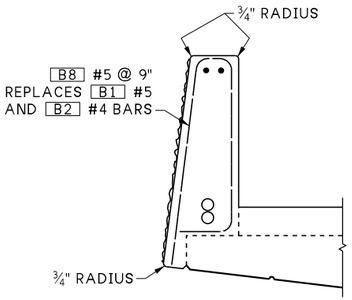


VIEW A

BA36 & BA37



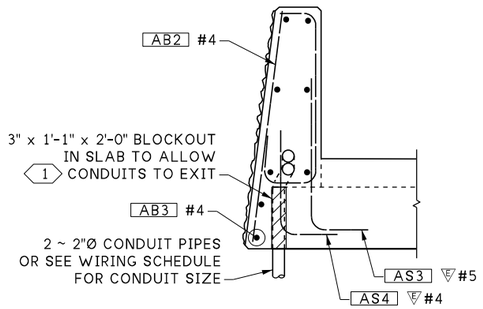
SECTION C



SLIPFORM ALTERNATE

SEE TYPICAL SECTION - PEDESTRIAN BARRIER FOR ADDITIONAL DETAILS

5



SECTION B

AT BRIDGE APPROACH SLAB

4

BA36 & BA37

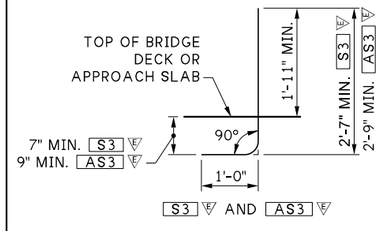
JUNCTION BOX LOCATIONS

STATION	OFFSET	"TS" OR "LT"
402+80.05	LT. + RT.	TS
402+88.05	LT. + RT.	LT
404+34.74	LT. + RT.	TS
404+42.74	LT. + RT.	LT

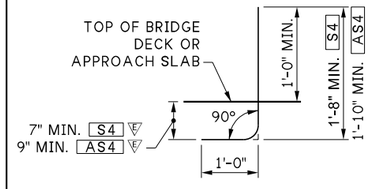
TS = TRAFFIC SYSTEM 2 3
LT = LIGHTING SYSTEM

BENDING DIAGRAM

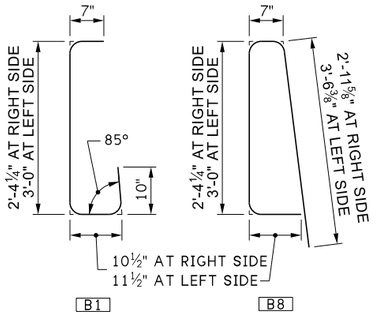
ALL DIMENSIONS ARE OUT TO OUT
▽ = EPOXY COATED REINFORCING STEEL



S3 ▽ AND AS3 ▽



S4 ▽ AND AS4 ▽



KEY NOTES:

1. BLOCKOUT WIDTH MAY BE INCREASED TO 6" TO ALLOW CONDUITS OF A LARGER DIAMETER THAN 2" TO EXIT BARRIER WITHOUT REBAR STEEL CONFLICT.
2. JUNCTION BOX LOCATIONS SHOWN ARE APPROXIMATE. CENTER JUNCTION BOX INSTALLATION BETWEEN BARRIER DUMMY JOINTS.
3. INSTALL ALL CONDUIT RUNS TO DRAIN TO A BRIDGE END OR PROVIDE DRAIN AT ALL LOW POINTS IN CONDUIT RUN ON BRIDGE.
4. FOR DETAILS NOT SHOWN SEE "OUTSIDE ELEVATION" AND "TYPICAL SECTION ~ PEDESTRIAN BARRIER"
5. THE CONTRACTOR IS ADVISED THAT THE SLIPFORM CONSTRUCTION METHOD IS A PATENTED PROPRIETARY PROCESS FOR BARRIERS WITH A FRACTURED FIN FINISH.

NOTE:

1. LEFT PEDESTRIAN BARRIER SHOWN, RIGHT PEDESTRIAN BARRIER SIMILAR.

FILE NAME	203_PEDESTRIAN BARRIER 3.dgn			
BRIDGE DES. ENG.	Leland, AC			
BRIDGE PROJ. ENG.				
SUPERVISOR	Aldrich, B			
DESIGNED BY	Vahedi, M	06/26		
CHECKED BY	Sawahata, D	07/26		
ENTERED BY	Brutzman, N	06/26		
PRELIM. PLAN BY				
ARCH. / SPEC.		REVISION	DATE	BY

REGION NO.	STATE
10	WASH

JOB NUMBER 26A012

CONTRACT NO.

WSDOT

BRIAN S. ALDRICH — STATE OF WASHINGTON — 37834 — PROFESSIONAL ENGINEER
SEE CERTIFICATION SHEET
DATE
STAMP BOX

AMY C. LELAND — STATE OF WASHINGTON — 39195 — PROFESSIONAL ENGINEER
SEE CERTIFICATION SHEET
DATE
STAMP BOX

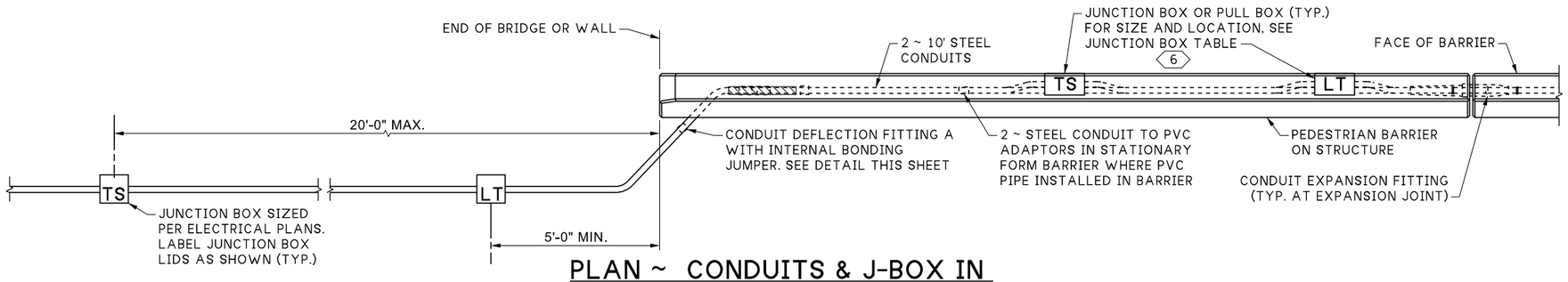
SR 544
NOOKSACK RIVER OVERFLOW CULVERT
ER PERMANENT REPAIR
NOOKSACK RIVER BRIDGE NO. 544/9

PEDESTRIAN BARRIER
DETAILS 3 OF 4

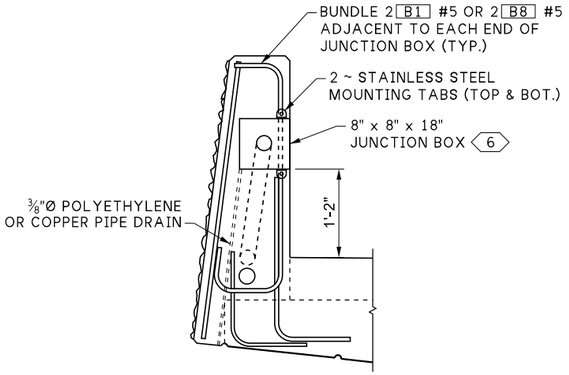
PLAN REF NO
BA38

SHEET 92 OF 119 SHEETS

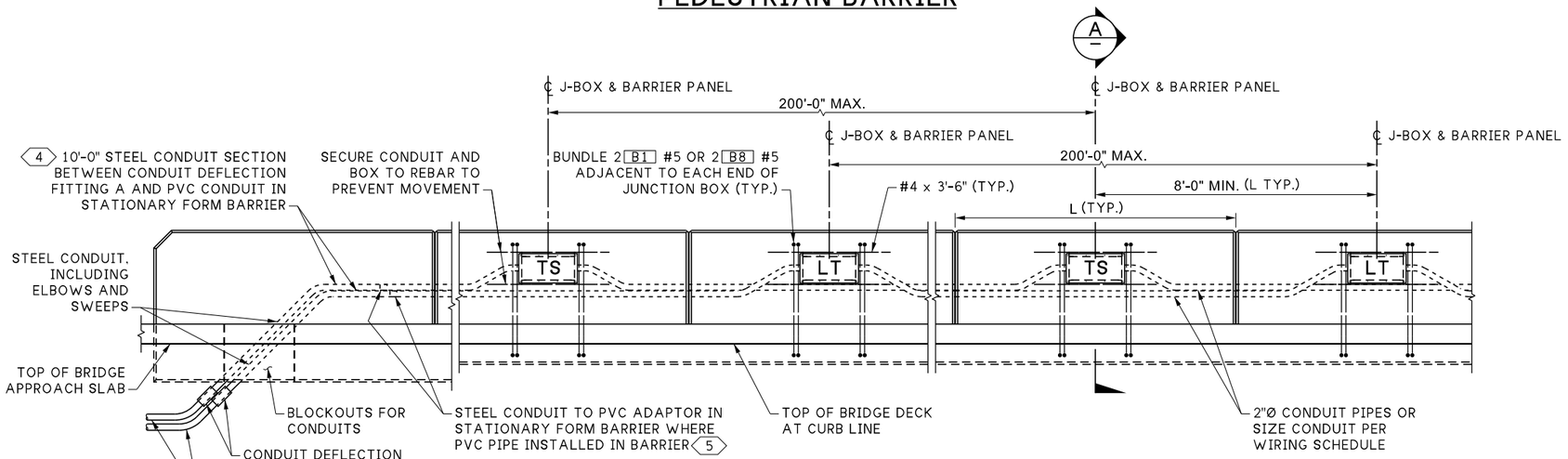
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PLAN ~ CONDUITS & J-BOX IN PEDESTRIAN BARRIER

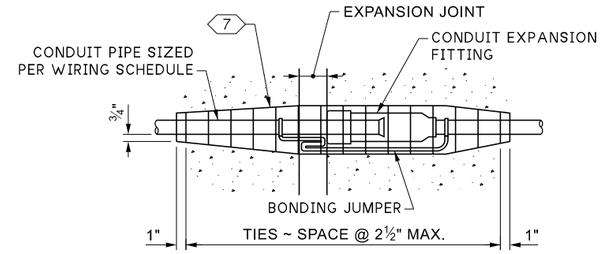


SECTION A



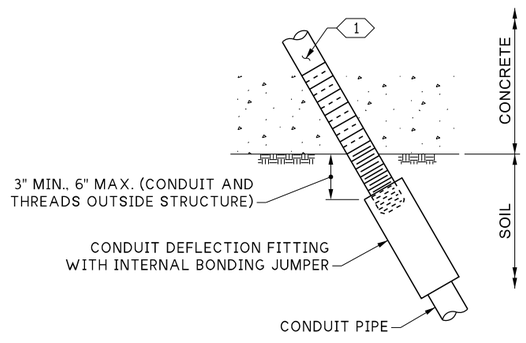
ELEVATION ~ CONDUITS & J-BOX IN PEDESTRIAN BARRIER

LEFT SIDE PEDESTRIAN BARRIER SHOWN.
RIGHT SIDE PEDESTRIAN BARRIER SIMILAR.
3



CONDUIT EXPANSION FITTING

CONDUIT FITTING - (TYPE AX FOR MOVEMENT OF ± 2")
AT BRIDGE EXPANSION JOINTS



CONDUIT DEFLECTION FITTING A

CONDUIT FITTING - TYPE DX FOR DEFLECTION OF 30° AND ¾" MOVEMENT.
2

KEY NOTES:

1. WHERE CONDUIT IN A STRUCTURE IS ROUTED ACROSS A JOINT, WRAP STEEL CONDUIT PIPE FOR 1'-0" ON EACH SIDE OF JOINT. PIPE WRAP SHALL BE 2" WIDE, 20 MIL THICK, AND INSTALLED WITH A MINIMUM OF 1" OVERLAP.
2. PLACE AT CONDUIT PIPE EXIT FROM STRUCTURE AND SHALL BE IN NEUTRAL STATE AFTER INSTALLATION.
3. LABEL JUNCTION BOX COVER IN ACCORDANCE WITH STANDARD SPECIFICATION SECTION 9-29.2(4). ADJACENT JUNCTION BOXES ARE SHOWN CENTERED BETWEEN ADJACENT DUMMY JOINTS. IF THE DISTANCE BETWEEN ADJACENT DUMMY JOINTS IS 16'-0" OR GREATER, PLACE ADJACENT JUNCTION BOXES SYMMETRICALLY ON EITHER SIDE OF THE CENTER OF ONE DUMMY PANEL WHILE MAINTAINING 8'-0" MINIMUM BETWEEN CENTER LINES OF THE JUNCTION BOXES.
4. TERMINATE STEEL CONDUIT IN JUNCTION BOX IF LESS THAN 10'-0" FROM ELBOW OR SWEEP.
5. INSTALL ONLY WHERE CONDUIT IS HORIZONTAL.
6. NEMA 4X IN STATIONARY FORM BARRIER, OR NEMA 3R IN SLIP FORM BARRIER. MOUNT JUNCTION BOX SO COVER IS FLUSH WITH BARRIER, CAN BE RECESSED UP TO ⅛".
7. 3'-0" LONG EXPANDED POLYSTYRENE SLEEVE AROUND CONDUIT. DUCT TAPE SEAMS AND ENDS TO SEAL AND PREVENT CONCRETE FROM BONDING WITH FITTING AND CONDUIT.

FILE NAME	204_PEDESTRIAN BARRIER 4.dgn				
BRIDGE DES. ENG.	Leland, AC				
BRIDGE PROJ. ENG.					
SUPERVISOR	Aldrich, B				
DESIGNED BY	Vahedi, M	06/26			
CHECKED BY	Sawahata, D	07/26			
ENTERED BY	Brutzman, N	06/26			
PRELIM. PLAN BY					
ARCH. / SPEC.			REVISION	DATE	BY

REGION NO.	STATE
10	WASH
JOB NUMBER	
26A012	
CONTRACT NO.	

WSDOT

BRIAN S. ALDRICH — STATE OF WASHINGTON — 37834 — PROFESSIONAL ENGINEER
SEE CERTIFICATION SHEET
DATE
STAMP BOX

AMY C. LELAND — STATE OF WASHINGTON — 39195 — PROFESSIONAL ENGINEER
SEE CERTIFICATION SHEET
DATE
STAMP BOX

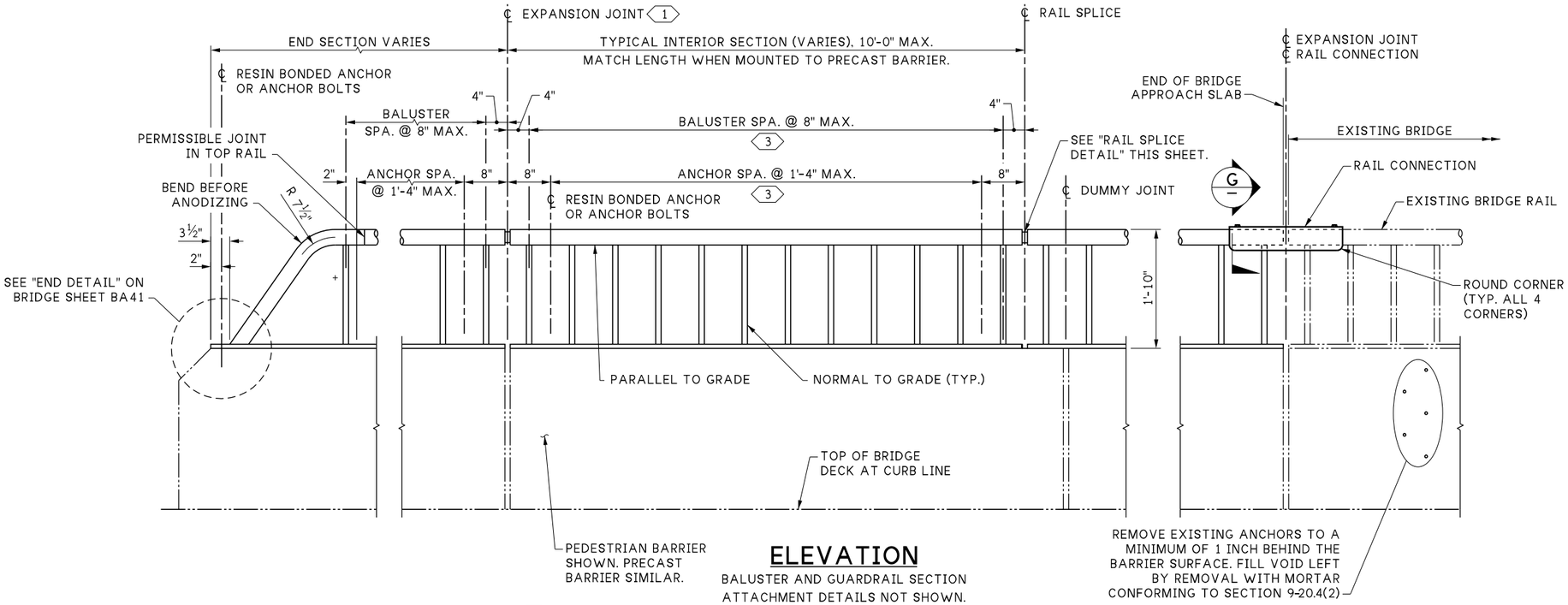
SR 544
NOOKSACK RIVER OVERFLOW CULVERT ER PERMANENT REPAIR
NOOKSACK RIVER BRIDGE NO. 544/9

PEDESTRIAN BARRIER DETAILS 4 OF 4

PLAN REF NO
BA39

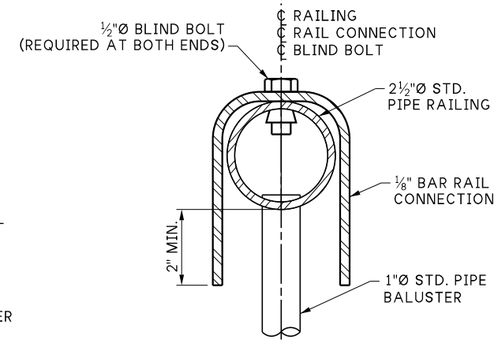
SHEET 93 OF 119 SHEETS

PLOT DATE: 23-Sep-2026 PLOT TIME: 11:35:26 AM PLOTTED BY: BrutzmN FILE PATH: pw://projectstore.wsdot.wa.gov:WSDOT/Documents/_HQ/Bridge & Structures/Bridge Design/_Design Projects/544/BR 544-9/2024_New Bridge_XL6549/_DGN/_Sheets/204_PEDESTRIAN BARRIER 4.dgn



ELEVATION

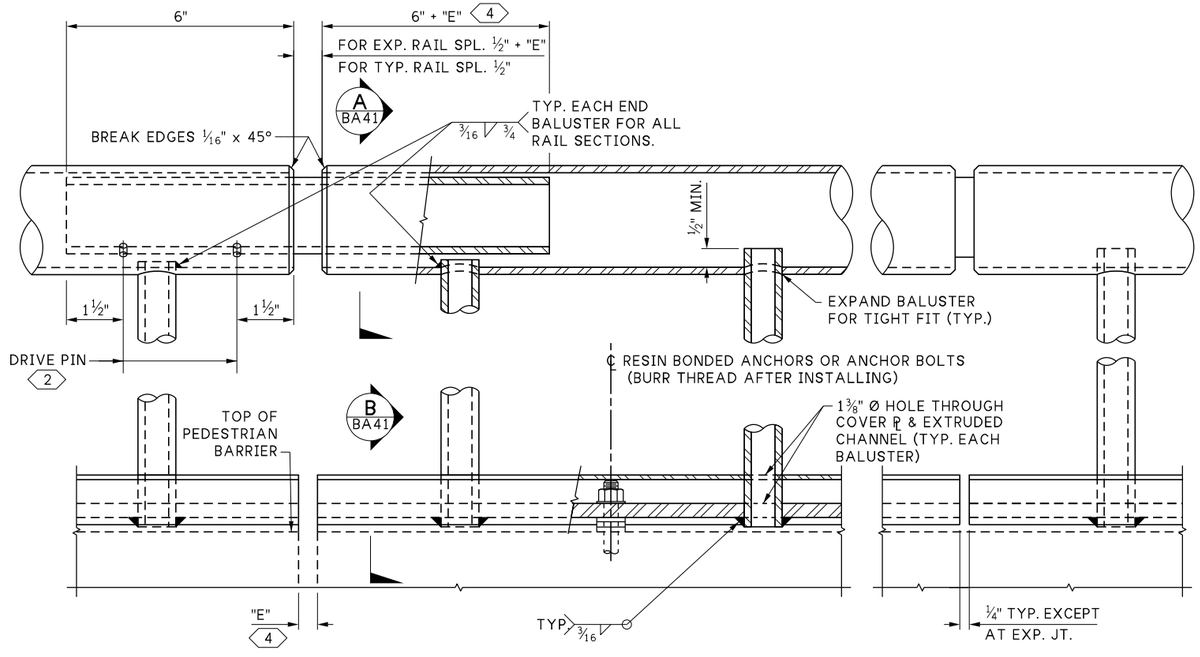
BALUSTER AND GUARDRAIL SECTION ATTACHMENT DETAILS NOT SHOWN.



SECTION G

NOTES:

1. PIPE RAILING, PIPE RAILING SLICES, COVER PLATES AND BOTTOM EXTRUDED CHANNELS SHALL BE BENT TO THE HORIZONTAL CURVE WHERE THE RADIUS OF CURVATURE IS LESS THAN 200'. THESE ITEMS MAY BE HEATED TO NOT MORE THAN 400° F FOR A PERIOD NOT TO EXCEED 30 MINUTES TO FACILITATE FORMING OR BENDING TO HORIZONTAL CURVATURE.
2. SHOP DRAWINGS OF RAILING SHALL BE SUBMITTED AS A TYPE 2 WORKING DRAWING SHOWING COMPLETE DIMENSIONS AND DETAILS OF FABRICATION AND INCLUDING AN ERECTION DIAGRAM. MATERIAL SPECIFICATIONS SHALL BE PROVIDED IN THE SHOP DRAWINGS FOR ALL COMPONENTS.
3. CUTTING SHALL BE DONE BY SAWING OR MILLING AND ALL CUTS SHALL BE TRUE AND SMOOTH. FLAME CUTTING WILL NOT BE PERMITTED.
4. WELDING OF ALUMINUM SHALL CONFORM TO STD. SPEC. SECTION 9-28.14(3).
5. ALL ALUMINUM PARTS SHALL BE GIVEN A *[CLEAR OR BRONZE] ANODIC COATING OF AT LEAST 0.0006" THICK AND SEALED TO MEET THE REQUIREMENTS OF ASTM B 580 WITH A UNIFORM FINISH.
6. PIPE RAILING, PIPE BALUSTERS AND PIPE RAILING SPLICES SHALL BE ADEQUATELY WRAPPED TO INSURE SURFACE PROTECTION DURING HANDLING AND TRANSPORTATION TO THE JOB SITE.



RAIL SPLICE DETAIL

KEY NOTES:

1. PROVIDE EXPANSION RAIL SPLICE AT TRAFFIC BARRIER EXPANSION JOINTS. RAIL SPLICE JOINTS ARE NOT REQUIRED AT PEDESTRIAN BARRIER DUMMY JOINTS.
2. LOCATE ON OPPOSITE SIDE OF TRAFFIC. DRIVE PINS SHALL DE DRIVEN FLUSH WITH THE OUTSIDE FACE OF THE RAILING.
3. BALUSTER & ANCHOR SPACINGS SHOWN ARE MAXIMUM ALLOWABLE. VARY AS NECESSARY ADJACENT TO BRIDGE EXPANSION JOINTS.
4. "E" DIMENSION SHALL BE EQUAL TO OPENING OF PEDESTRIAN BARRIER EXPANSION JOINTS.

FILE NAME	207_RAILING DETAILS 1 OF 2.dgn			
BRIDGE DES. ENG.	Leland, AC			
BRIDGE PROJ. ENG.				
SUPERVISOR	Aldrich, B			
DESIGNED BY	Vahedi, M	06/26		
CHECKED BY	Sawahata, D	07/26		
ENTERED BY	Brutzman, N	06/26		
PRELIM. PLAN BY				
ARCH. / SPEC.		REVISION	DATE	BY

REGION NO.	STATE
10	WASH

JOB NUMBER 26A012

CONTRACT NO.

WSDOT

BRIAN S. ALDRICH — STATE OF WASHINGTON — 37834 — PROFESSIONAL ENGINEER — STRUCTURAL ENGINEER
SEE CERTIFICATION SHEET
DATE
STAMP BOX

AMY C. LELAND — STATE OF WASHINGTON — 39195 — PROFESSIONAL ENGINEER — STRUCTURAL ENGINEER
SEE CERTIFICATION SHEET
DATE
STAMP BOX

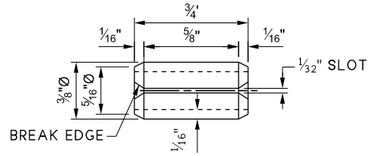
SR 544
NOOKSACK RIVER OVERFLOW CULVERT
ER PERMANENT REPAIR
NOOKSACK RIVER BRIDGE NO. 544/9

BRIDGE RAILING TYPE BP-22
DETAILS 1 OF 2

PLAN REF NO
BA40

SHEET 94 OF 119 SHEETS

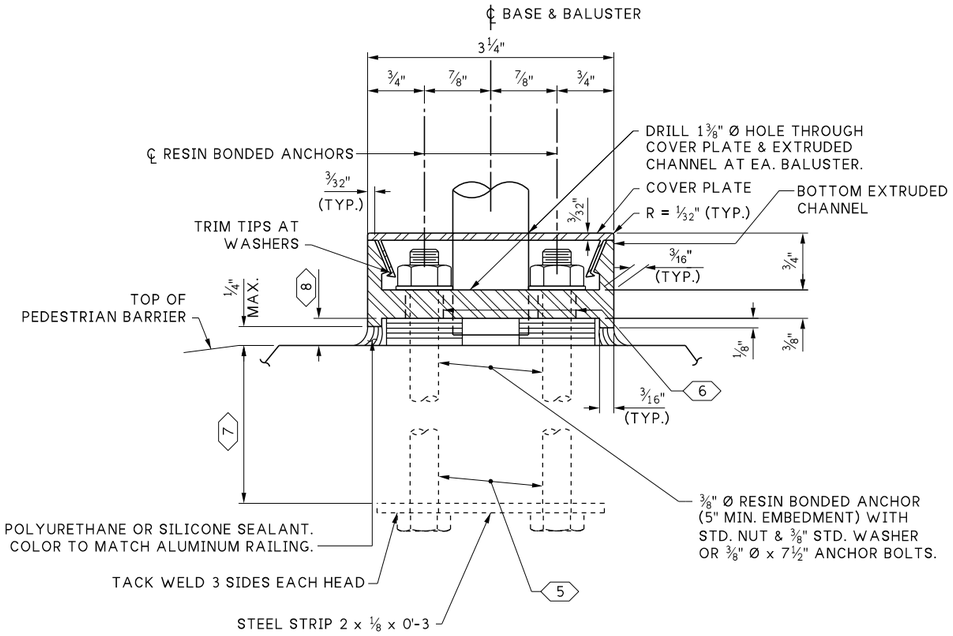
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DRIVE PIN DETAIL

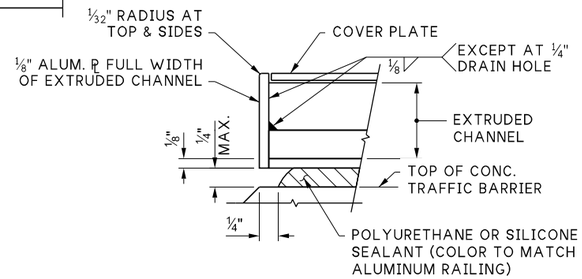
SLOTTED TYPE SPRING PIN (ANSI B18.8.2)

END DETAIL



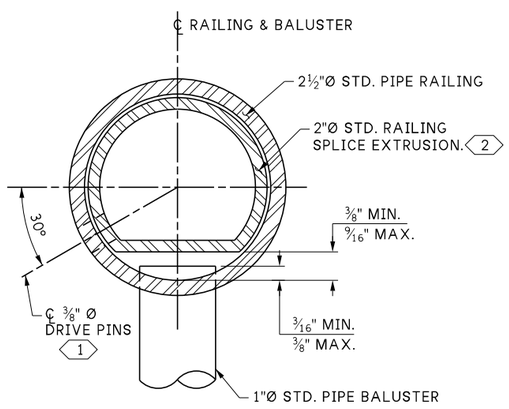
SECTION B

4 BA40



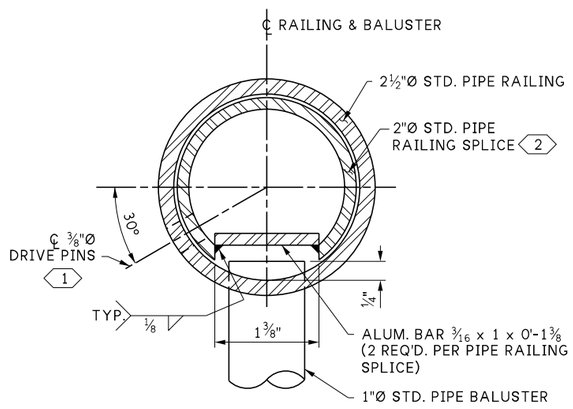
DETAIL C

DRAIN HOLES NOT SHOWN



SECTION A

OPTION #1 — A / BA40



SECTION A

OPTION #2 — A / BA40

KEY NOTES:

1. LOCATE ON OPPOSITE SIDE OF TRAFFIC. DRIVE PINS SHALL BE DRIVEN FLUSH WITH THE OUTSIDE FACE OF THE RAILING.
2. DRILL 3/8" Ø HOLE FOR 3/8" Ø DRIVE PIN AT LOCATION SHOWN.
3. THIS COVER PLATE SECTION SHALL BE SNAPPED INTO POSITION AFTER 2" Ø STD. PIPE HAS BEEN WELDED TO BOTTOM EXTRUDED CHANNEL.
4. ANCHOR BOLTS SHALL BE POSITIONED IN A JIG DURING WELDING.
5. 3/8" Ø x 7 1/2" ANCHOR BOLTS WITH STD. NUT & 1" O.D. WASHER, THREADED 10 N.C. 1 1/8" LONG. ALTERNATE TO 3/8" Ø RESIN BONDED ANCHORS.
6. 1/2" Ø HOLE AT INTERIOR SECTIONS OR 1/2" x 7/8" SLOTTED HOLE (FOR LONGITUDINAL ADJUSTMENT) AT END SECTIONS AND AT SECTIONS IMMEDIATLY ADJACENT TO EXPANSION JOINTS.
7. 6" EMBEDMENT FOR ANCHOR BOLTS (FOR RESIN BONDED ANCHORS US MFR. RECOMMENDATION.)
8. FILL WITH 1" O.D. WASHERS AS NECESSARY TO ADJUST TOP OF RAIL TO A SMOOTH PROFILE.

MATERIAL SPECIFICATION TABLE

MATL	PART	MATERIAL SPECIFICATION
ALUMINUM	RAILS & BALUSTERS	ASTM B221-6005-T5, 6005A-T5 OR ASTM B241-6061-T6
ALUMINUM	EXTRUDED CHANNELS, COVER PLATES & BAR	ASTM B221-6005-T5 OR 6005A-T5
STEEL	STRIP	ASTM B221-6005-T5
STEEL	ANCHOR BOLTS, NUTS & WASHERS	STANDARD SPECIFICATION SECTION 9-06.5(4) GR. 36 (GALVANIZE IN ACCORDANCE WITH AASHTO SPECIFICATION , M 232)
STEEL	DRIVE PINS	ASTM A276 OR A240 TYPE 302 STAINLESS STEEL

FILE NAME	208_RAILING DETAILS 2 OF 2.dgn				
BRIDGE DES. ENG.	Leland, AC				
BRIDGE PROJ. ENG.					
SUPERVISOR	Aldrich, B				
DESIGNED BY	Vahedi, M	06/26			
CHECKED BY	Sawahata, D	07/26			
ENTERED BY	Brutzman, N	06/26			
PRELIM. PLAN BY					
ARCH. / SPEC.			REVISION	DATE	BY

REGION NO. 10 | STATE WASH | JOB NUMBER 26A012 | CONTRACT NO.

WSDOT

BRIAN S. ALDRICH — STATE OF WASHINGTON — 37834 — PROFESSIONAL ENGINEER — SEE CERTIFICATION SHEET — DATE — STAMP BOX

AMY C. LELAND — STATE OF WASHINGTON — 39195 — PROFESSIONAL ENGINEER — SEE CERTIFICATION SHEET — DATE — STAMP BOX

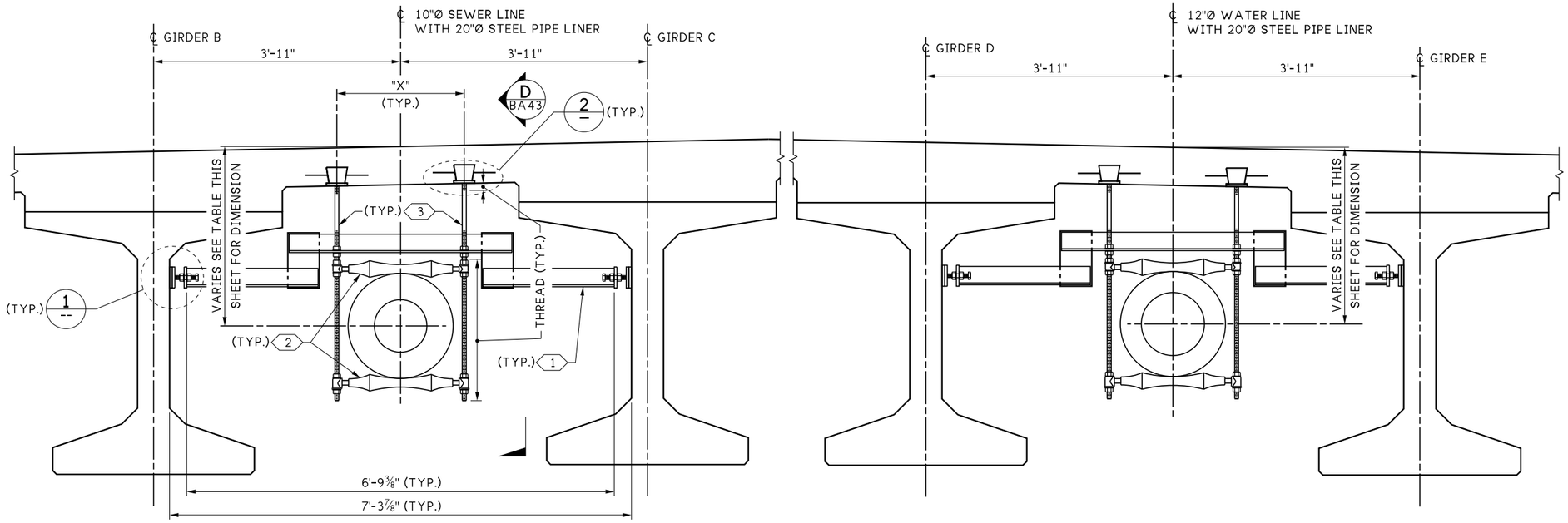
SR 544
NOOKSACK RIVER OVERFLOW CULVERT
ER PERMANENT REPAIR
NOOKSACK RIVER BRIDGE NO. 544/9

BRIDGE RAILING TYPE BP-22
DETAILS 2 OF 2

PLAN REF NO BA41

SHEET 95 OF 119 SHEETS

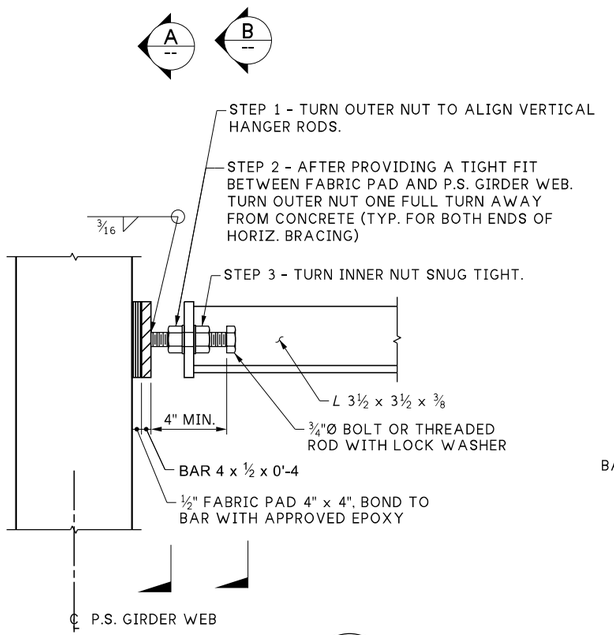
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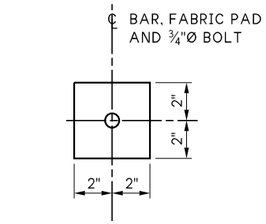
VERTICAL DIMENSION BETWEEN TOP OF DECK AND CENTER OF PIPE		
	10" SEWER LINE	12" WATER LINE
BACK OF PAVEMENT SEAT PIER 1 (PIER 1 END DIAPHRAGM)	2'-10¾"	2'-9⅝"
℄ INTERMEDIATE DIAPHRAGM 1	3'-2⅜"	3'-0"
℄ INTERMEDIATE DIAPHRAGM 2	3'-5⅛"	3'-1⅝"
℄ PIER 2 END DIAPHRAGM	3'-7¼"	3'-2⅝"
BACK OF PAVEMENT SEAT PIER 2 (PIER 2 BACK WALL)	3'-7⅜"	3'-2⅝"

HANGER UTILITY SUPPORT

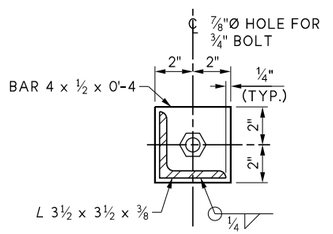
"X" DETERMINED FROM MANUFACTURER



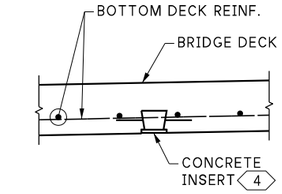
DETAIL 1



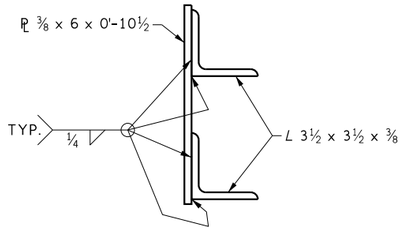
SECTION A



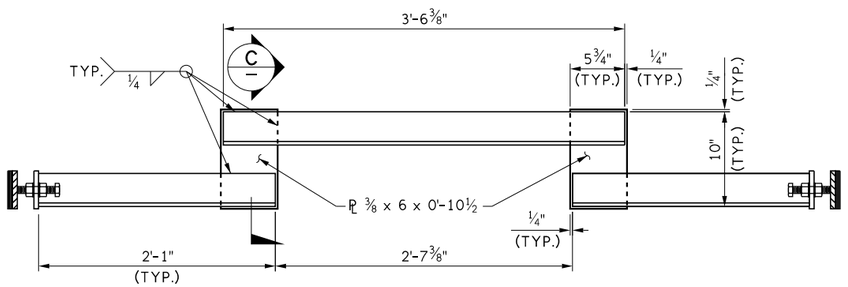
SECTION B



DETAIL 2



SECTION C



TRANSVERSE SUPPORT DETAIL

GENERAL NOTES:

1. ALL MATERIALS SHALL BE GALVANIZED AFTER FABRICATION PER AASHTO M 111 OR AASHTO M 232 EXCEPT PIPE ROLLERS.
2. PAINT ROLLERS WITH THREE COATS OF GALVANIZING REPAIR PAINT. SEE STD. SPEC. SECTION 9-08.1(2)B.
3. STEEL PLATES, BARS, AND ANGLES SHALL CONFORM TO ASTM A36.

KEY NOTES:

1. L 3½ x 3½ x ⅜ WITH 2 - 1⅜"Ø HOLES FOR 1¼"Ø HANGER RODS AT EVERY OTHER VERTICAL SUPPORT, NEAR PIERS, AND AT EXPANSION JOINTS. TRANSVERSE SUPPORT SHOWN ABOVE UTILITY BUT MAY BE PLACED BELOW IN ORDER TO SEAT FLUSH AGAINST GIRDER WEB.
2. ANVIL PIPE ROLL FIG. 171, B-LINE B3114, CARPENTER AND PATTERSON FIG. 142 OR APPROVED EQUAL.
3. 1¼"Ø GALV. HANGER RODS WITH 6 HEX HEAD NUTS, STD. WASHERS, AND LOCK WASHERS. "X" DETERMINED FROM MANUFACTURER.
4. STAINLESS STEEL UNISTRUT P3246 HEAVY DUTY CONCRETE INSERT OR APPROVED EQUAL. CHASE THREADS ON HANGER ROD FOR THREAD COMPATIBILITY WITH INSERT. INSERT TO BE INSTALLED LEVEL LONGITUDINALLY AND TRANSVERSELY.

FILE NAME	220_UTILITY HANGER DETAILS 1.dgn			
BRIDGE DES. ENG.	Leland, AC			
BRIDGE PROJ. ENG.				
SUPERVISOR	Aldrich, B			
DESIGNED BY	Vahedi, M	06/26		
CHECKED BY	Sawahata, D	07/26		
ENTERED BY	Brutzman, N	06/26		
PRELIM. PLAN BY				
ARCH. / SPEC.		REVISION	DATE	BY

REGION NO.	STATE
10	WASH
JOB NUMBER	
26A012	
CONTRACT NO.	

WSDOT

BRIAN S. ALDRICH — STATE OF WASHINGTON — 37834 — STRUCTURAL ENGINEER — PROFESSIONAL ENGINEER
SEE CERTIFICATION SHEET
DATE
STAMP BOX

AMY C. LELAND — STATE OF WASHINGTON — 39105 — STRUCTURAL ENGINEER — PROFESSIONAL ENGINEER
SEE CERTIFICATION SHEET
DATE
STAMP BOX

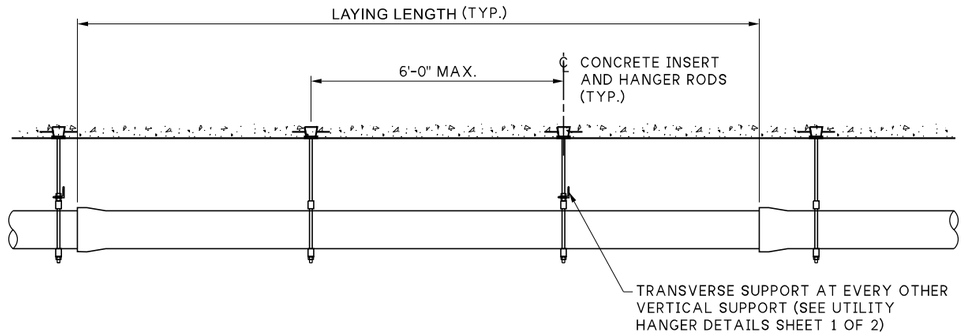
SR 544
NOOKSACK RIVER OVERFLOW CULVERT
ER PERMANENT REPAIR
NOOKSACK RIVER BRIDGE NO. 544/9

UTILITY HANGER DETAILS 1 OF 2

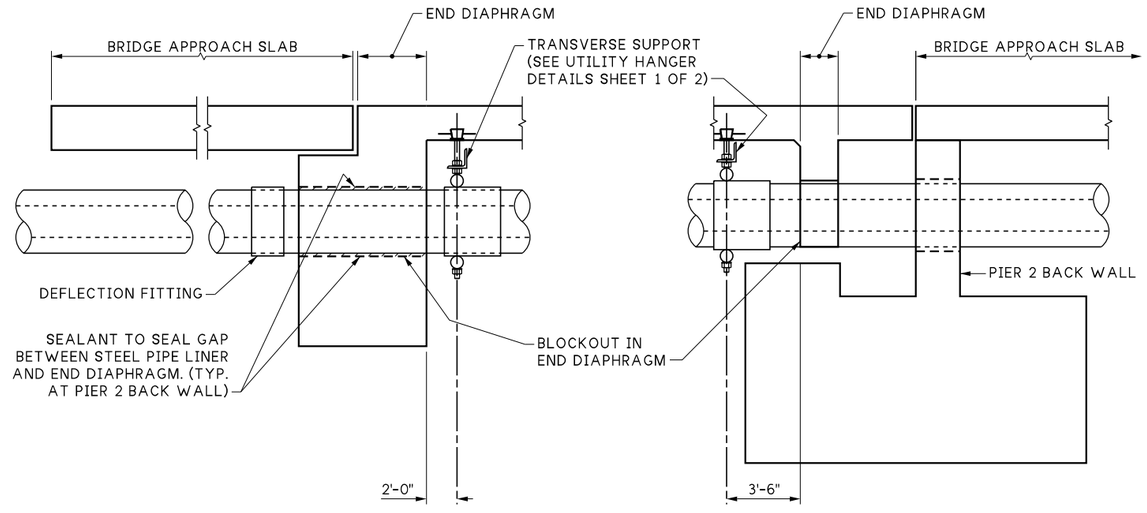
PLAN REF NO
BA42

SHEET 96 OF 119 SHEETS

PLOT DATE: 29-Sep-2026 PLOT TIME: 3:55:30 PM PLOTTED BY: $$USERNAME$$ FILE PATH: $$$DESIGNFILEURL$$$



SECTION D
20"Ø STEEL PIPE LINER
BA42



UTILITY PLACEMENT DETAIL
20"Ø STEEL PIPE LINER

GENERAL NOTES:

1. SET POSITION OF EXPANSION FITTING BASED ON MANUFACTURER RECOMMENDATIONS AND TEMPERATURE AT TIME OF INSTALLATION.
2. EXPANSION FITTINGS SHALL BE INSTALLED AT BOTH ENDS, AND SHALL ACCOMMODATE 4.6 INCHES OF MOVEMENT. THE DESIGN TEMPERATURE RANGE IS 125 DEGREES (-15° TO 110°).

FILE NAME	221_UTILITY HANGER DETAILS 2.dgn				
BRIDGE DES. ENG.	Leland, AC				
BRIDGE PROJ. ENG.					
SUPERVISOR	Aldrich, B				
DESIGNED BY	Vahedi, M	06/26			
CHECKED BY	Sawahata, D	07/26			
ENTERED BY	Brutzman, N	06/26			
PRELIM. PLAN BY					
ARCH. / SPEC.		REVISION	DATE	BY	

REGION NO.	STATE
10	WASH
JOB NUMBER	
26A012	
CONTRACT NO.	

WSDOT

BRIAN S. ALDRICH — STATE OF WASHINGTON — 37834 — STRUCTURAL ENGINEER — PROFESSIONAL ENGINEER
SEE CERTIFICATION SHEET
DATE
STAMP BOX

AMY C. LELAND — STATE OF WASHINGTON — 39195 — STRUCTURAL ENGINEER — PROFESSIONAL ENGINEER
SEE CERTIFICATION SHEET
DATE
STAMP BOX

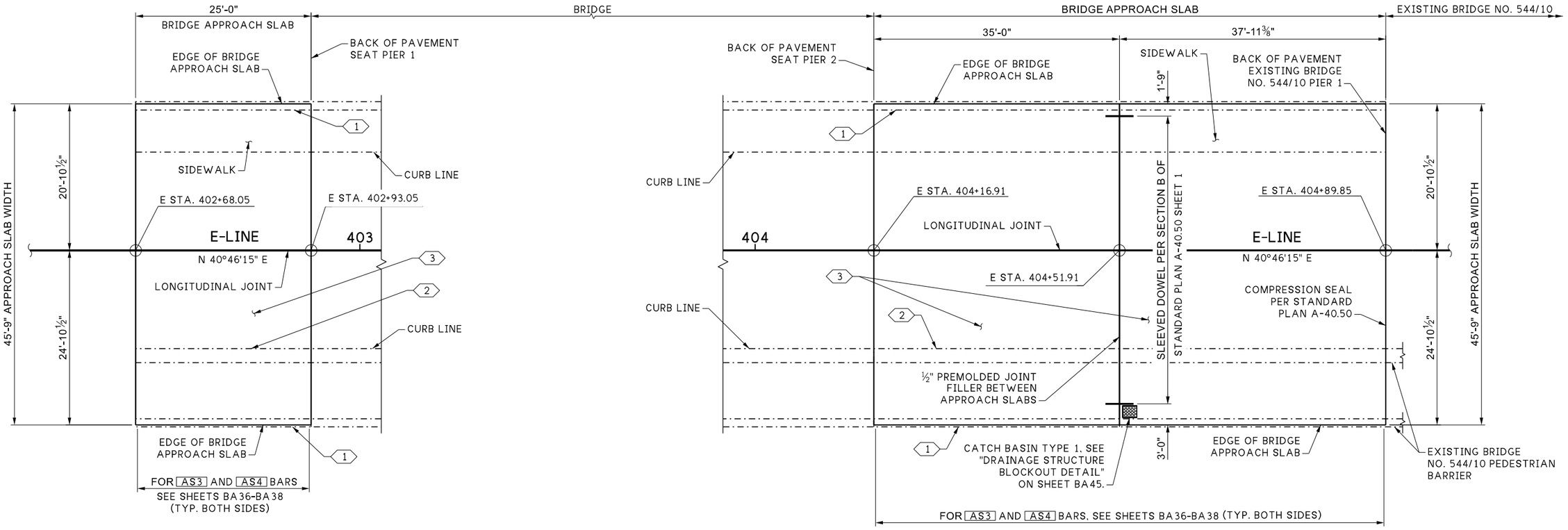
SR 544
NOOKSACK RIVER OVERFLOW CULVERT ER PERMANENT REPAIR
NOOKSACK RIVER BRIDGE NO. 544/9

UTILITY HANGER DETAILS 2 OF 2

PLAN REF NO
BA43

SHEET 97 OF 119 SHEETS

PLOT DATE: 29-Sep-2026 PLOT TIME: 2:03:41 PM PLOTTED BY: BrutzmN FILE PATH: pw://projectstore.wsdot.wa.gov:WSDOT/Documents/_HQ/Bridge & Structures/Bridge Design/_Design Projects/544/BR 544-9/2024_New Bridge_XL6549/_DGN/_Sheets/221_UTILITY HANGER DETAILS 2.dgn



PLAN

NOTES:

1. SEE STANDARD PLAN A-40.50 FOR DETAILS NOT SHOWN.
2. SEE BRIDGE SHEET BA5 FOR APPROACH SLAB STAGING REQUIREMENTS.

KEY NOTES:

1. PEDESTRIAN BARRIER WITH BRIDGE RAILING TYPE BP-22.
2. CONCRETE BARRIER TYPE F WITH SCUPPERS (PRECAST), PER STANDARD PLAN C-60.15 WITH BRIDGE RAILING TYPE BP-22.
3. BRIDGE APPROACH SLAB PER STANDARD PLAN A-40.50.

FILE NAME	230_APPROACH SLAB PLAN.dgn				
BRIDGE DES. ENG.	Leland, AC				
BRIDGE PROJ. ENG.					
SUPERVISOR	Aldrich, B				
DESIGNED BY	Vahedi, M	06/26			
CHECKED BY	Sawahata, D	07/26			
ENTERED BY	Brutzman, N	06/26			
PRELIM. PLAN BY					
ARCH. / SPEC.			REVISION	DATE	BY

REGION NO.	STATE
10	WASH
JOB NUMBER	26A012
CONTRACT NO.	

WSDOT

BRIAN S. ALDRICH, STATE OF WASHINGTON, 37834, PROFESSIONAL ENGINEER — SEE CERTIFICATION SHEET — DATE — STAMP BOX

AMY C. LELAND, STATE OF WASHINGTON, 39195, PROFESSIONAL ENGINEER — SEE CERTIFICATION SHEET — DATE — STAMP BOX

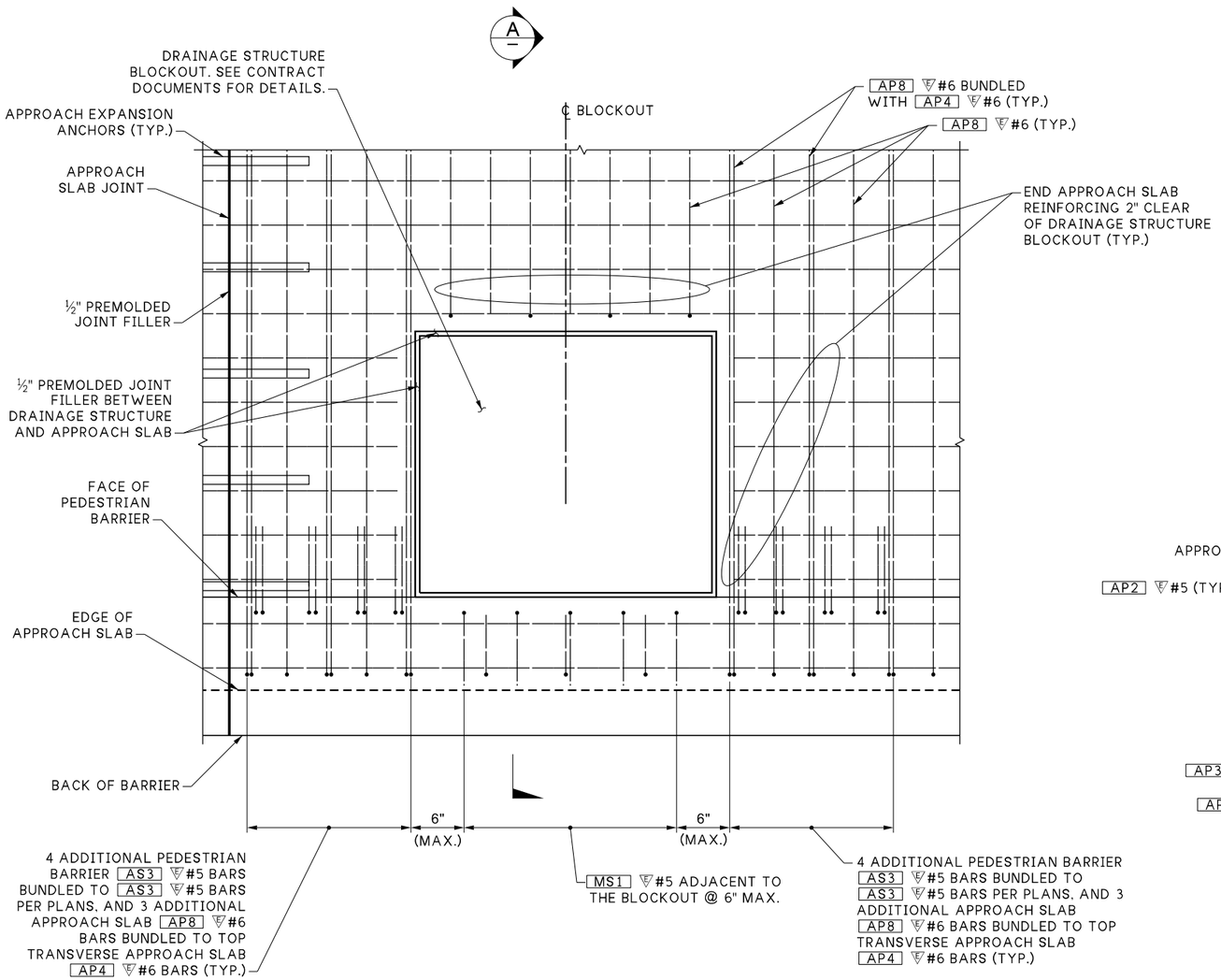
SR 544
NOOKSACK RIVER OVERFLOW CULVERT ER PERMANENT REPAIR
NOOKSACK RIVER BRIDGE NO. 544/9

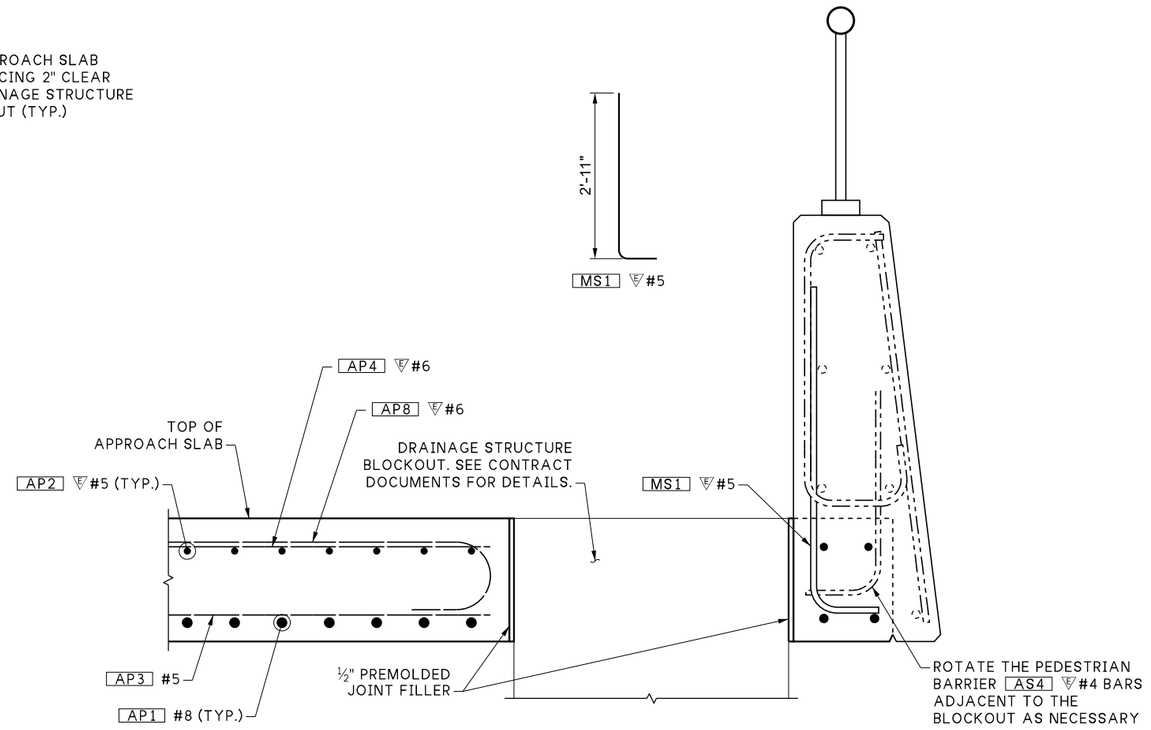
BRIDGE APPROACH SLAB DETAILS

PLAN REF NO: BA44

SHEET 98 OF 119 SHEETS

PLOT DATE: 23-Sep-2026 PLOT TIME: 11:35:43 AM PLOTTED BY: BrutzmN FILE PATH: pw://projectstore.wsdot.wa.gov:WSDOT/Documents/_HQ/Bridge & Structures/Bridge Design/_Design Projects/544/BR 544-9/2024_New Bridge_XL6549/_DGN/_Sheets/230_APPROACH SLAB PLAN.dgn





SECTION A

DRAINAGE STRUCTURE BLOCKOUT DETAIL

BRIDGE APPROACH SLAB TOP MAT REINFORCEMENT SHOWN. BOTTOM MAT SIMILAR. SEE STANDARD PLAN A-40.50 FOR DETAILS NOT SHOWN.

FILE NAME	231_CATCH BASIN DETAILS.dgn				
BRIDGE DES. ENG.	Leland, AC				
BRIDGE PROJ. ENG.					
SUPERVISOR	Aldrich, B				
DESIGNED BY	Vahedi, M	06/26			
CHECKED BY	Sawahata, D	07/26			
ENTERED BY	Brutzman, N	06/26			
PRELIM. PLAN BY					
ARCH. / SPEC.			REVISION	DATE	BY

REGION NO.	STATE
10	WASH
JOB NUMBER	
26A012	
CONTRACT NO.	

WSDOT

BRIAN S. ALDRICH — STATE OF WASHINGTON — 37834 — PROFESSIONAL ENGINEER
SEE CERTIFICATION SHEET
DATE
STAMP BOX

AMY C. LELAND — STATE OF WASHINGTON — 39195 — PROFESSIONAL ENGINEER
SEE CERTIFICATION SHEET
DATE
STAMP BOX

SR 544
NOOKSACK RIVER OVERFLOW CULVERT ER PERMANENT REPAIR
NOOKSACK RIVER BRIDGE NO. 544/9

CATCH BASIN DETAILS

PLAN REF NO
BA45

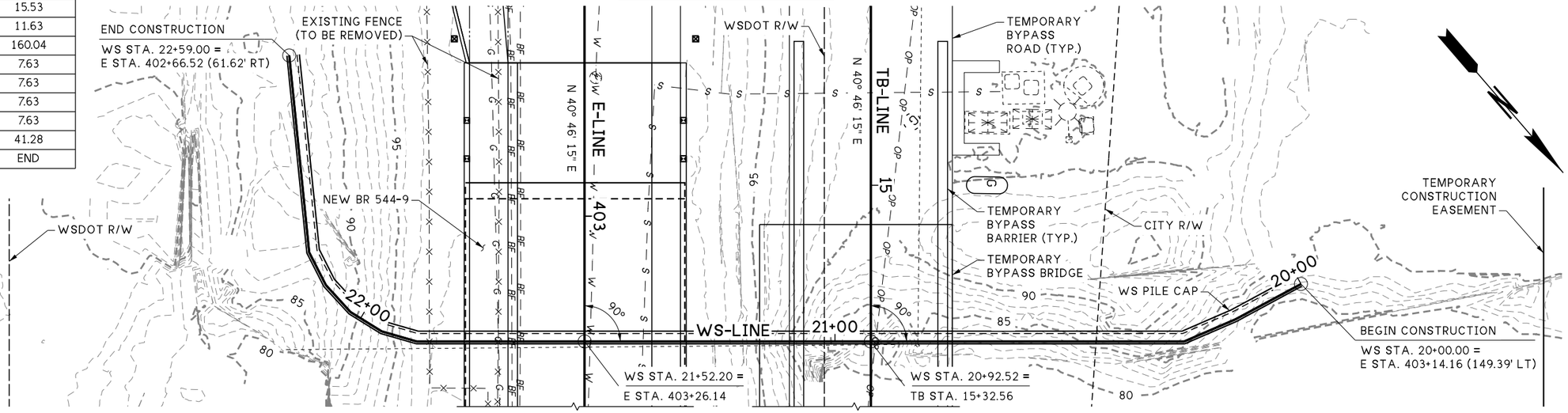
SHEET 99 OF 119 SHEETS

PLOT DATE: 23-Sep-2026 PLOT TIME: 11:35:47 AM PLOTTED BY: BrutzmN FILE PATH: pw://projectstore.wsdot.wa.gov:WSDOT/Documents/_HQ/Bridge & Structures/Bridge Design/_Design Projects/544/BR 544-9/2024_New Bridge_XL6549/_DGN/_Sheets/231_CATCH BASIN DETAILS.dgn

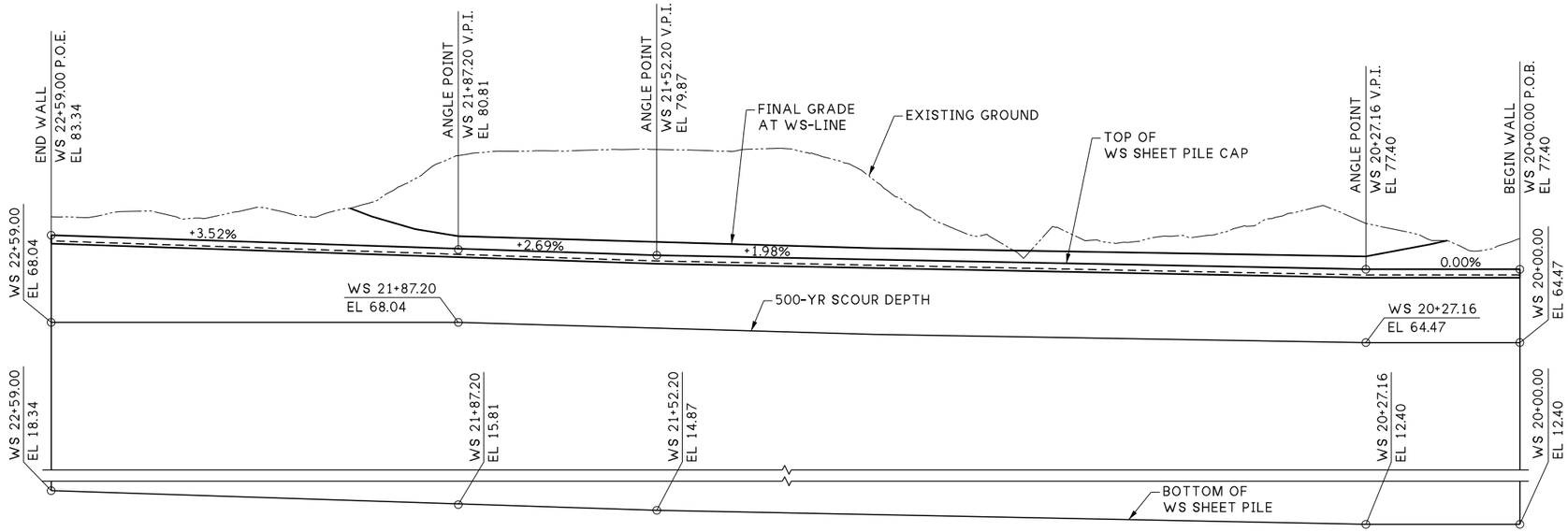
SOUTH WALL LINE DATA		
ANGLE POINT	DIRECTION	LENGTH (FT)
WS 20+00.00	S 77°32'27.54" E	15.53
WS 20+15.53	S 72°36'36.99" E	11.63
WS 20+27.16	S 49°13'45.45" E	160.04
WS 21+87.20	S 33°09'29.33" E	7.63
WS 21+94.83	S 17°28'35.86" E	7.63
WS 22+02.46	S 01°47'42.38" E	7.63
WS 22+10.09	S 13°53'11.09" W	7.63
WS 22+17.72	S 34°57'07.86" W	41.28
WS 22+59.00	END	END

SEC. 31, T.40N., R.4E., W.M.
CITY OF EVERSON

SR 544



SOUTH WALL PLAN



DEVELOPED ELEVATION

DATUM
(NAVD) 88

NOTE:

1. GAS LINE, BURIED FIBER, BURIED TELEPHONE, AND EXISTING OVERHEAD POWER SHALL BE REMOVED PRIOR TO CONSTRUCTION. WATER AND SEWER LINES SHALL BE RELOCATED DURING CONSTRUCTION.

LEGEND:

- EXIST. WATER LINE
- EXIST. GAS LINE
- EXIST. BURIED FIBER
- EXIST. BURIED TELEPHONE
- EXIST. SEWER LINE
- EXIST. OVERHEAD POWER
- EXIST. WATER VALVE
- EXIST. GRATE INLET
- EXIST. POWER POLE
- JUNCTION BOX LOCATION
- NEMA-4X JUNCTION BOX LOCATION
- EXISTING BOREHOLE LOCATION
- BOREHOLE LOCATION

STEEL SHEET PILE WALL (NZ42)

FILE NAME	241_WS SHEET WALL.dgn				
BRIDGE DES. ENG.	Leland, AC				
BRIDGE PROJ. ENG.					
SUPERVISOR	Aldrich, B				
DESIGNED BY	Vahedi, M	06/26			
CHECKED BY	Sawahata, D	07/26			
ENTERED BY	Brutzman, N	06/26			
PRELIM. PLAN BY					
ARCH. / SPEC.		REVISION	DATE	BY	

REGION NO.	STATE
10	WASH
JOB NUMBER	
26A012	
CONTRACT NO.	

WSDOT

BRIAN S. ALDRICH — STATE OF WASHINGTON — 57834 — PROFESSIONAL ENGINEER
SEE CERTIFICATION SHEET
DATE
STAMP BOX

AMY C. LELAND — STATE OF WASHINGTON — 39195 — PROFESSIONAL ENGINEER
SEE CERTIFICATION SHEET
DATE
STAMP BOX

SR 544
NOOKSACK RIVER OVERFLOW CULVERT
ER PERMANENT REPAIR
NOOKSACK RIVER BRIDGE NO. 544/9

SOUTH SCOUR COUNTERMEASURE SHEET PILE WALL LAYOUT

PLAN REF NO
BA46

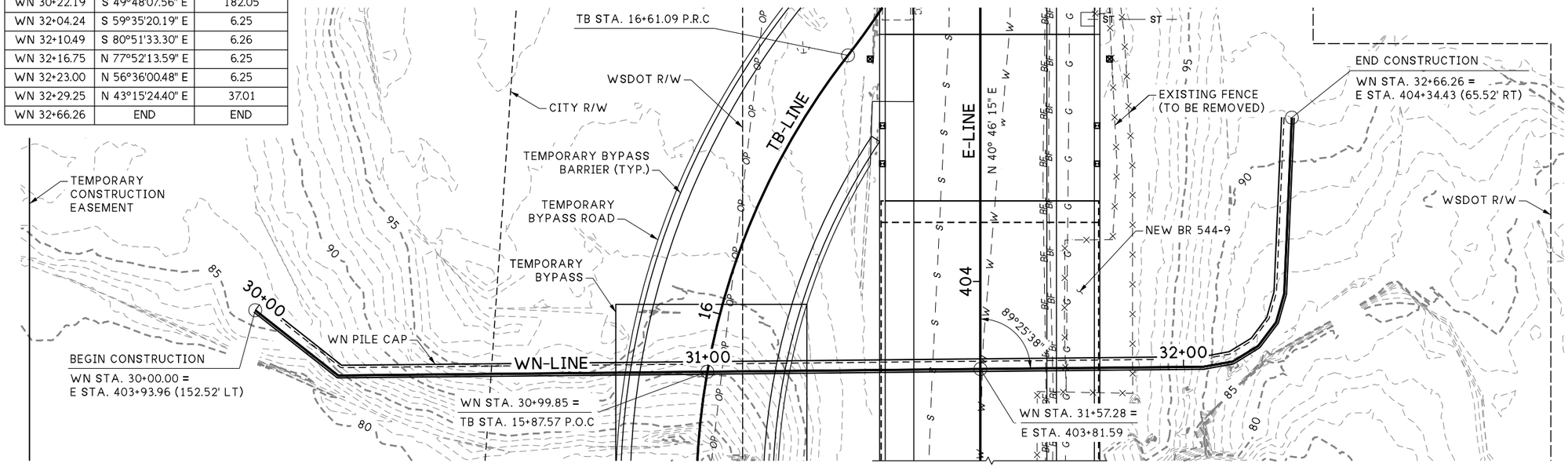
SHEET 100 OF 119 SHEETS

PLOT DATE: 23-Sep-2026 PLOT TIME: 11:35:53 AM PLOTTED BY: BrutzmN FILE PATH: pw://projectstore.wsdot.wa.gov:WSDOT/Documents/_HQ/Bridge & Structures/Bridge Design/_Design Projects/544/BR 544-9/2024_New Bridge_XL6549/_DGN/_Sheets/241_WS SHEET WALL.dgn

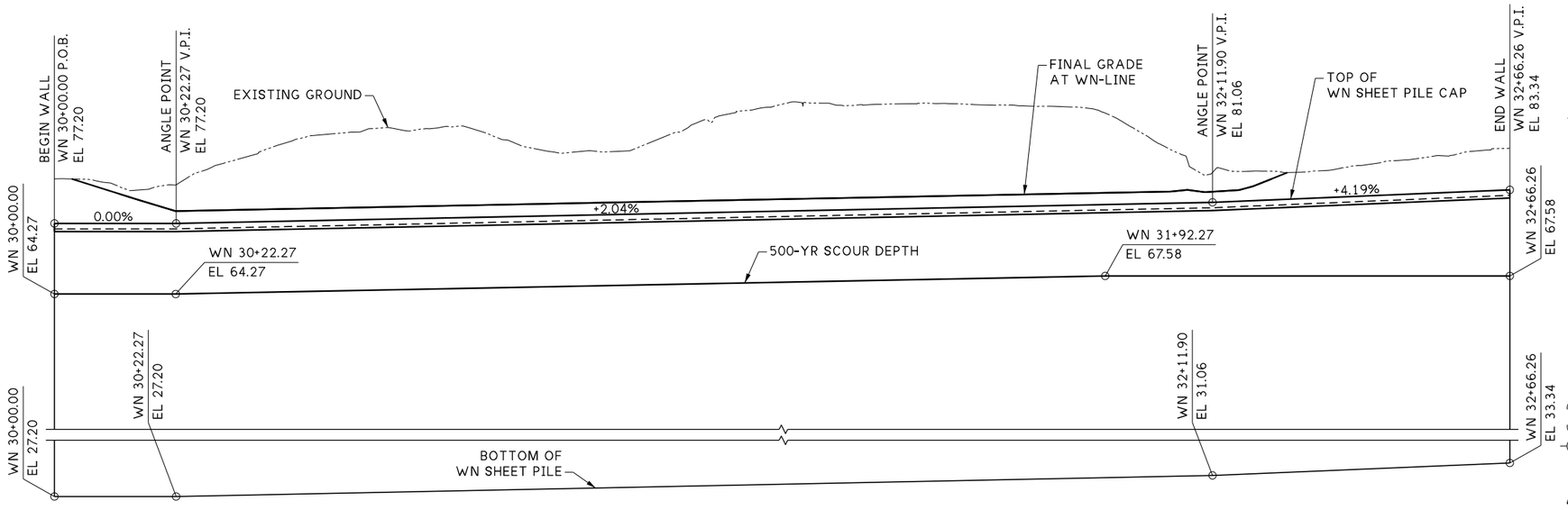
NORTH WALL LINE DATA		
ANGLE POINT	DIRECTION	LENGTH (FT)
WN 30+00.00	S 11°02'43.14" E	22.19
WN 30+22.19	S 49°48'07.56" E	182.05
WN 32+04.24	S 59°35'20.19" E	6.25
WN 32+10.49	S 80°51'33.30" E	6.26
WN 32+16.75	N 77°52'13.59" E	6.25
WN 32+23.00	N 56°36'00.48" E	6.25
WN 32+29.25	N 43°15'24.40" E	37.01
WN 32+66.26	END	END

SEC. 31, T.40N., R.4E., W.M.
CITY OF EVERSON

SR 544



NORTH WALL PLAN



DEVELOPED ELEVATION

DATUM
(NAVD) 88

NOTE:

1. GAS LINE, BURIED FIBER, BURIED TELEPHONE, AND EXISTING OVERHEAD POWER SHALL BE REMOVED PRIOR TO CONSTRUCTION. WATER AND SEWER LINES SHALL BE RELOCATED DURING CONSTRUCTION.

LEGEND:

- EXIST. WATER LINE
- EXIST. GAS LINE
- EXIST. BURIED FIBER
- EXIST. BURIED TELEPHONE
- EXIST. SEWER LINE
- EXIST. OVERHEAD POWER
- EXIST. WATER VALVE
- EXIST. GRATE INLET
- EXIST. POWER POLE
- JUNCTION BOX LOCATION
- NEMA-4X JUNCTION BOX LOCATION
- EXISTING BOREHOLE LOCATION
- BOREHOLE LOCATION

STEEL SHEET PILE WALL (NZ42)

FILE NAME	242_WN SHEET WALL.dgn			
BRIDGE DES. ENG.	Leland, AC			
BRIDGE PROJ. ENG.				
SUPERVISOR	Aldrich, B			
DESIGNED BY	Vahedi, M	06/26		
CHECKED BY	Sawahata, D	07/26		
ENTERED BY	Brutzman, N	06/26		
PRELIM. PLAN BY				
ARCH. / SPEC.		REVISION	DATE	BY

REGION NO.	STATE
10	WASH
JOB NUMBER	
26A012	
CONTRACT NO.	

WSDOT

BRIAN S. ALDRICH — STATE OF WASHINGTON — 37834 — PROFESSIONAL ENGINEER
SEE CERTIFICATION SHEET
DATE
STAMP BOX

AMY C. LELAND — STATE OF WASHINGTON — 39195 — PROFESSIONAL ENGINEER
SEE CERTIFICATION SHEET
DATE
STAMP BOX

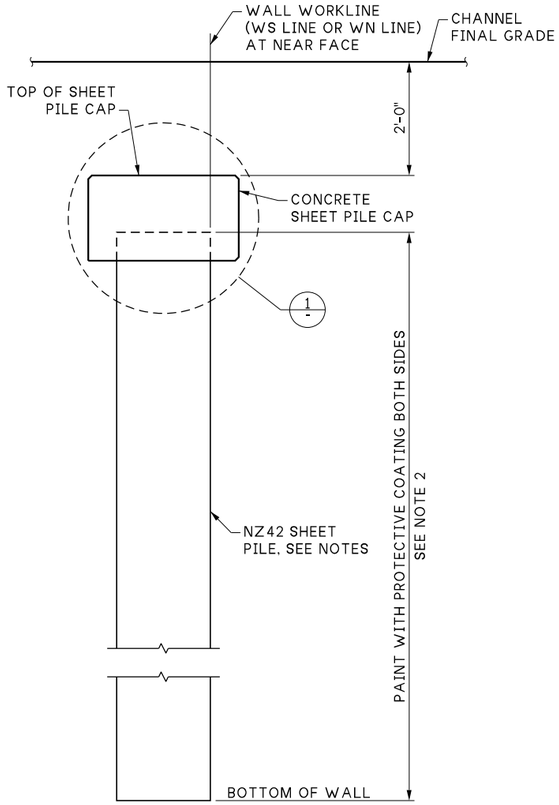
SR 544
NOOKSACK RIVER OVERFLOW CULVERT
ER PERMANENT REPAIR
NOOKSACK RIVER BRIDGE NO. 544/9

NORTH SCOUR COUNTERMEASURE SHEET PILE WALL LAYOUT

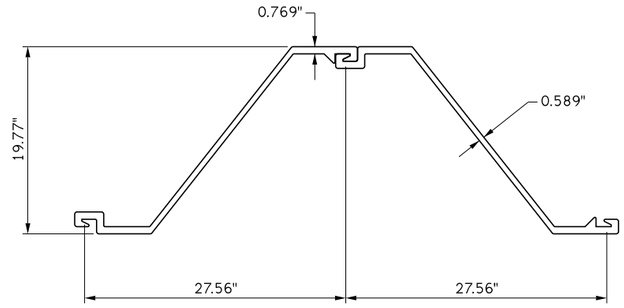
PLAN REF NO
BA47

SHEET 101 OF 119 SHEETS

PLOT DATE: 23-Sep-2026 PLOT TIME: 11:35:59 AM PLOTTED BY: BrutzmN FILE PATH: pw://projectstore.wsdot.wa.gov:WSDOT/Documents/_HQ/Bridge & Structures/Bridge Design/_Design Projects/544/BR 544-9/2024_New Bridge_XL6549/_DGN/_Sheets/242_WN SHEET WALL.dgn

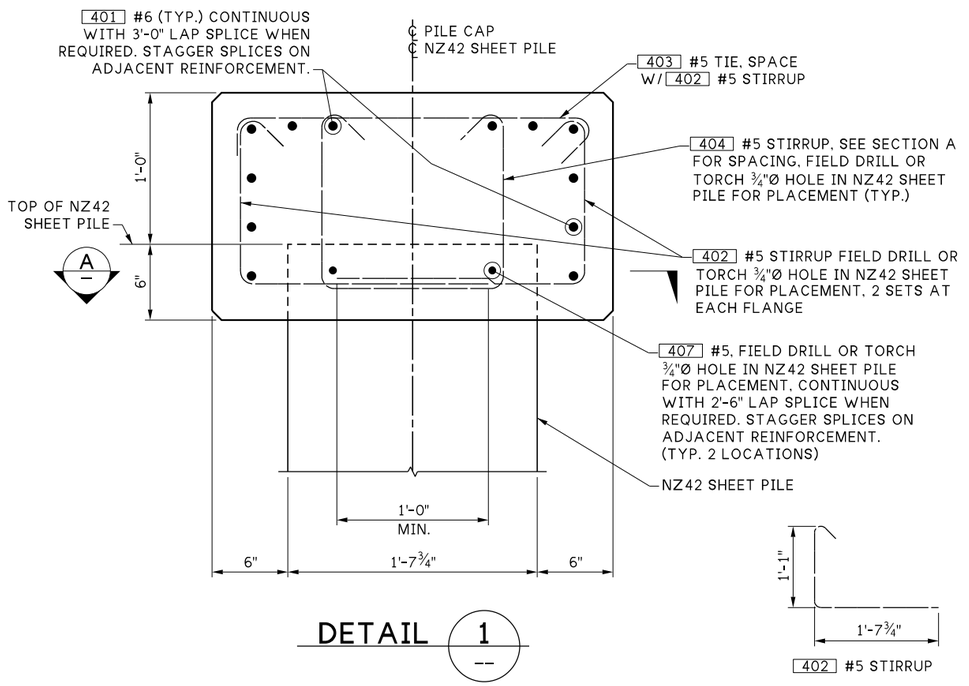


TYPICAL SECTION



NZ42 SHEET PILE

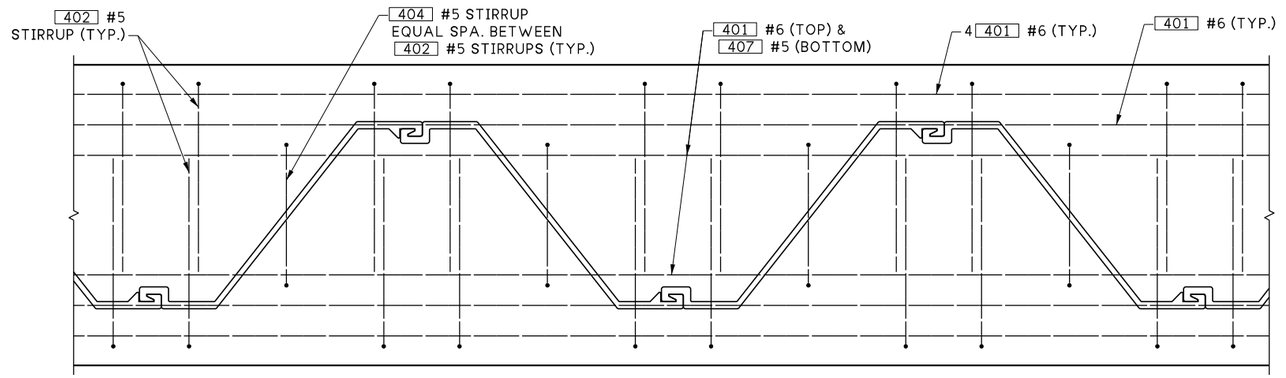
DIMENSIONS GIVEN ARE IN DECIMAL INCHES
TO MATCH MANUFACTURER SPECIFICATIONS



DETAIL 1 / --

NOTES:

1. CONCRETE IN THE SHEET PILE CAP SHALL BE CONCRETE CLASS 4000.
2. STEEL SHEET PILES SHALL BE NZ42 SECTION ASTM A572 GRADE 60.
3. PROTECTIVE COATING ON SHEET PILES SHALL BE CARBOGUARD 635. APPLY 2-3 COATS FOR TOTAL MINIMUM THICKNESS OF 12 MILS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. COLOR SHALL BE GREY.
4. CONSTRUCTION JOINT IN SHEET PILE CAP MAY BE ADDED AT CONTRACTOR'S OPTION FOR STAGING PURPOSES.
5. NZ42 SHEET PILE SECTIONS WITH AN ELASTIC SECTION MODULUS OF 78.17 CU. INCHES PER FOOT WERE USED AS THE BASIS OF DESIGN. THE DESIGN ASSUMES A NON-MARINE, NON-CORROSIVE ENVIRONMENT IN UNDISTURBED SOIL, WITH A SECTION LOSS RATE OF 0.0005 IN./YEAR. ALTERNATIVE SHEET PILE SECTIONS MAY BE SUBSTITUTED, PROVIDED THAT THE CORROSION-REDUCED ELASTIC SECTION MODULUS PER FOOT OF WALL WIDTH IS EQUAL TO OR GREATER THAN THE CORROSION-REDUCED ELASTIC SECTION MODULUS OF THE NZ42 SECTION USED FOR DESIGN. CORROSION REDUCTION SHALL BE DETERMINED IN ACCORDANCE WITH WSDOT BRIDGE DESIGN MANUAL (BDM) 2024, SECTION 6.7.1. THE CONTRACTOR SHALL SUBMIT CALCULATIONS DEMONSTRATING COMPLIANCE WITH THIS REQUIREMENT AS A TYPE 2E WORKING DRAWING.



SECTION A / --

BEND REBARS 401 AND 407 AS NEEDED TO FOLLOW THE SCOUR WALL ALIGNMENT.

FILE NAME	243_SHEET PILE DETAILS.dgn				
BRIDGE DES. ENG.	Leland, AC				
BRIDGE PROJ. ENG.					
SUPERVISOR	Aldrich, B				
DESIGNED BY	Vahedi, M	06/26			
CHECKED BY	Sawahata, D	07/26			
ENTERED BY	Brutzman, N	06/26			
PRELIM. PLAN BY					
ARCH. / SPEC.			REVISION	DATE	BY

REGION NO.	STATE
10	WASH
JOB NUMBER	
26A012	
CONTRACT NO.	

WSDOT

BRIAN S. ALDRICH — STATE OF WASHINGTON — 37834 — STRUCTURAL ENGINEER — PROFESSIONAL ENGINEER
SEE CERTIFICATION SHEET
DATE
STAMP BOX

AMY C. LELAND — STATE OF WASHINGTON — 39105 — STRUCTURAL ENGINEER — PROFESSIONAL ENGINEER
SEE CERTIFICATION SHEET
DATE
STAMP BOX

SR 544
NOOKSACK RIVER OVERFLOW CULVERT
ER PERMANENT REPAIR
NOOKSACK RIVER BRIDGE NO. 544/9

SCOUR COUNTERMEASURE SHEET PILE WALL DETAILS

PLAN REF NO
BA48

SHEET 102 OF 119 SHEETS

PLOT DATE: 23-Sep-2026 PLOT TIME: 11:36:03 AM PLOTTED BY: BrutzmN FILE PATH: pw://projectstore.wsdot.wa.gov:WSDOT/Documents/_HQ/Bridge & Structures/Bridge Design/_Design Projects/544/BR 544-9/2024_New Bridge_XL6549/_DGN/_Sheets/243_SHEET PILE DETAILS.dgn

MARK NO.	LOCATION	SIZE	QTY.	BEND TYPE	TIE OR STIRR. (1)	SUBSTR. (2)	COATING TYPE (3)	VARIES	NO. EACH	DIMENSIONS (OUT TO OUT) U Ft.	U In.	W Ft.	W In.	X Ft.	X In.	Y Ft.	Y In.	Z Ft.	Z In.	θθ_1 Deg.	θθ_2 Deg.	LENGTH Ft.	LENGTH In.	WEIGHT Lbs
	PIER 1 SHAFT CAP																							
1P01	Bot Longit.	10	132	56		S				22	8.0											25	8.0	14566
1P02	Bot Transv.	10	31	56		S				48	11.0											51	11.0	6922
1P03	Mid Cap Tie	7	662	58	T	S				3	1.0											4	10.0	6515
1P04	Top Transv.	10	31	56		S				48	11.0											51	11.0	6922
1P05	Top Longit.	10	132	56		S				22	8.0											25	8.0	14566
1P06	Side Transv.	7	4	50		S				48	11.0											48	11.0	400
1P07	Side Longit.	7	4	50		S				22	8.0											22	8.0	185
1P08	Face Tie	7	146	58	T	S				3	2.0											4	11.0	1462
1P09	Interior Transv.	7	28	50		S				48	11.0											48	11.0	2800
1P10	Interior Longit.	7	62	50		S				22	8.0											22	8.0	2873
	PIER 1 ABUTMENT																							
108	Stem Wall Vert.	8	109	54		S		V	1	13	0.0											14	1.0	4038
										12	6.0											13	7.0	
109	Stem Wall Vert.	8	53	54		S		V	1	13	0.0											14	1.0	1963
										12	6.0											13	7.0	
110	Stem Wall Horiz.	5	23	56		S				45	5.0											46	10.0	1123
111	Wall Tie	4	146	58	T	S				1	6.0											2	2.0	211
112	Top Wall Tie	4	55	56	T	S				1	6.0											2	1.0	76
113	Girder Stop Tie	4	27	74	T	S				1	5.0	2	11.0	2	11.0							7	0.0	127
114	Girder Stop Tie	4	15	74	T	S				4	2.0	2	11.0	2	11.0							9	10.0	98
115	Girder Stop Tie	4	6	74	T	S				1	5.0	2	11.0	0	0.0							4	2.0	17
116	Stem Wall Horiz.	5	5	56		S				45	5.0											46	10.0	244
	PIER 1 WINGWALLS																							
120	Far Face Vert.	7	22	54		S				17	3.0											18	3.0	820
121	Far Face Vert.	7	56	50		S		V	2	7	6.0											7	6.0	525
										1	8.0											1	8.0	
122	Near Face Vert.	7	12	54		S				17	3.0											18	3.0	447
123	Near Face Vert.	7	30	50		S		V	2	7	6.0											7	6.0	281
										1	8.0											1	8.0	
124	Near Face Horiz.	5	14	54		S				4	8.0											5	4.0	78
124	Near Face Horiz.	5	16	54		S		V	2	4	8.0											5	4.0	209
										19	0.0											19	8.0	
125	Far Face Horiz.	7	26	54		S				4	8.0											5	8.0	300
125	Far Face Horiz.	7	30	54		S		V	2	4	8.0											5	8.0	786
										19	0.0											19	12.0	
126	Bottom Edge	7	4	50		S				16	8.0											16	8.0	136
127	Top Edge	4	4	74		S				3	0.0	1	0.0	1	0.0							4	9.0	13
	PIER 1 END DIAPHRAGM																							
141	Bot. Long.	6	2	50						43	8.0											43	8.0	131
142	Top. Long.	6	2	52				E		45	5.0											46	9.0	141
143	Long.	4	12	89						43	8.0	2	0.0									45	8.0	366
144	Stirrup	4	72	58	T					5	8.0											6	4.0	306
145	Stirrup	4	36	78	T					1	11.0	4	7.0	0	0.0							6	8.0	160
146	Tie	4	36	58	T					1	11.0											2	6.0	61
147	Around Blockout	5	8	80						1	0.0	1	8.0	1	8.0	0	4.0	0	4.0	135	135	4	3.0	36
148	Tie Around Blockout	4	12	58	T					1	7.0											2	3.0	18
149	Around Blockout	5	4	80						2	0.0	2	6.0	2	6.0	0	4.0	0	4.0	135	135	6	11.0	29
	PIER 2 CROSSBEAM																							
211	Stirrup	7	116	72	T	S		V	4	6	6.0	4	5.0	4	5.0							16	6.0	3799
										6	6.0	3	11.0	3	11.0							15	6.0	
212	Long. Bot Layer1	11	15	50		S				45	5.0											45	5.0	3619
213	Long. Bot Layer2	11	15	50		S				45	5.0											45	5.0	3619

(1) T = TRANSVERSE S = SEISMIC

(2) S = BAR IS INCLUDED IN SUBSTRUCTURE QUANTITIES

(3) E = BAR IS TO BE EPOXY COATED ▽ G = BAR IS TO BE GALVANIZED ▽

(4) V = BAR DIMENSIONS VARY BETWEEN DIMENSIONS SHOWN ON THIS LINE AND THE FOLLOWING LINE

MARK NO.	LOCATION	SIZE	QTY.	BEND TYPE	TIE OR STIRR. (1)	SUBSTR. (2)	COATING TYPE (3)	VARIES	NO. EACH	DIMENSIONS (OUT TO OUT) U Ft.	U In.	W Ft.	W In.	X Ft.	X In.	Y Ft.	Y In.	Z Ft.	Z In.	θθ_1 Deg.	θθ_2 Deg.	LENGTH Ft.	LENGTH In.	WEIGHT Lbs
214	Stirrup	7	68	58	T	S		V	4	4	5.0											6	2.0	831
										4	1.0											5	10.0	
216	Long. Top Layer2	11	15	56		S				45	3.0											48	7.0	3873
217	Long. Top Layer1	11	15	50		S				45	5.0											45	5.0	3619
219	Tie	5	58	58	T	S				8	8.0											9	6.0	574
220	U-Shaped at Ends	5	10	74	T	S				8	6.0	3	0.0	3	0.0							14	3.0	149
225	Girder Stop Stirrup	4	54	74	T	S				1	6.0	2	11.0	2	11.0							7	2.0	258
226	Interior Girder Stop	4	30	50		S				4	2.0											4	2.0	84
227	Exterior Girder Stop	4	12	50		S				1	4.0											1	4.0	11
	PIER 2 WINGWALLS																							
240	Far Face Vert.	7	38	54		S				8	8.0											9	8.0	750
241	Far Face Vert.	7	24	50		S		V	2	2	11.0											2	11.0	112
										1	8.0											1	8.0	
242	Near Face Vert.	7	20	54		S				8	8.0											9	8.0	395
243	Near Face Vert.	7	24	50		S		V	2	2	11.0											2	11.0	112
										1	8.0											1	8.0	
244	Near Face Horiz.	5	10	54		S		V	2	20	2.0											20	10.0	158
										8	8.0											9	4.0	
245	Far Face Horiz.	7	16	54		S		V	2	20	2.0											21	2.0	504
										8	8.0											9	8.0	
246	Bottom Edge	7	4	50		S				13	2.0											13	2.0	108
247	Top Edge	4	4	74		S				4	0.0	1	0.0	1	0.0							5	9.0	15
	PIER 2 BACK WALL																							
261	Back Wall Near Face Vert.	7	88	54		S		V	2	8	8.0											9	8.0	1691
										8	2.0											9	2.0	
262	Back Wall Far Face Vert.	7	88	54		S		V	1	8	8.0											9	8.0	1691
										8	2.0											9	2.0	
263	Back Wall Horiz.	7	12	50		S				45	5.0											45	5.0	1114
264	Top Wall Tie	4	46	74	T	S				0	10.0	1	2.0	1	2.0							2	12.0	92
265	Wall Tie	4	66	58	T	S				0	10.0											1	6.0	66
266	Around Blockout	5	8	80		S				2	0.0	2	6.0	2	6.0	0	4.0	0	4.0	135	135	6	11.0	58
267	Tie Around Blockout	5	8	58	T	S				0	10.0											1	8.0	14
AP9	Embed to App. Slab	5	46	80		S				3	0.0	1	4.0	0	0.0	0	3.0	0	0.0	120	0	4	3.0	206
	PIER 2 END DIAPHRAGM																							
251	Center Long.	7	3	50						43	8.0											43	8.0	268
252	Stirrup	4	40	73	T					0	8.0	3	10.0	3	10.0							8	11.0	238
253	Long. Between Girders	4	30	50						6	11.0											6	11.0	139
254	Top Long.	6	3	52				E		42	11.0											44	3.0	200
255	Around Blockout	5	4	80						2	0.0	2	6.0	2	6.0	0	4.0	0	4.0	135	135	6	11.0	29
256	Tie Around Blockout	4	8	58	T					1	7.0											2	3.0	12
258	Stirrup	4	20	74	T			V	10	0	8.0	2	9.0	2	9.0							5	12.0	78
										0	8.0	2	7.0	2	7.0							5	8.0	
250	Stirrup after Diaph.	4	46	72	T					2	8.0	0	8.0	0	8.0							4	6.0	139
259	Tie	4	46	58	T					0	8.0											1	4.0	41
260	Long. after Diaph.	4	3	89						42	11.0	2	6.0									45	5.0	91
	INTERMEDIATE DIAPHRAGM																							
332	Bot Long.	7	4	50						38	2.0											38	2.0	312
333	Center Long.	7	2	50						38	2.0											38	2.0	156
334	Top Long.	6	4	52				E		42	11.0											44	3.0	266
335	Long. Between Girders	4	40	50						6	12.0											6	12.0	186
336	Stirrup	4	80	74	T					0	5.0	4	3.0	4	3.0							8	9.0	467
337	Stirrup	4	40	74	T			V	20	0	5.0	2	8.0	2	8.0							5	7.0	140
										0	5.0	2	4.0	2	4.0							4	11.0	

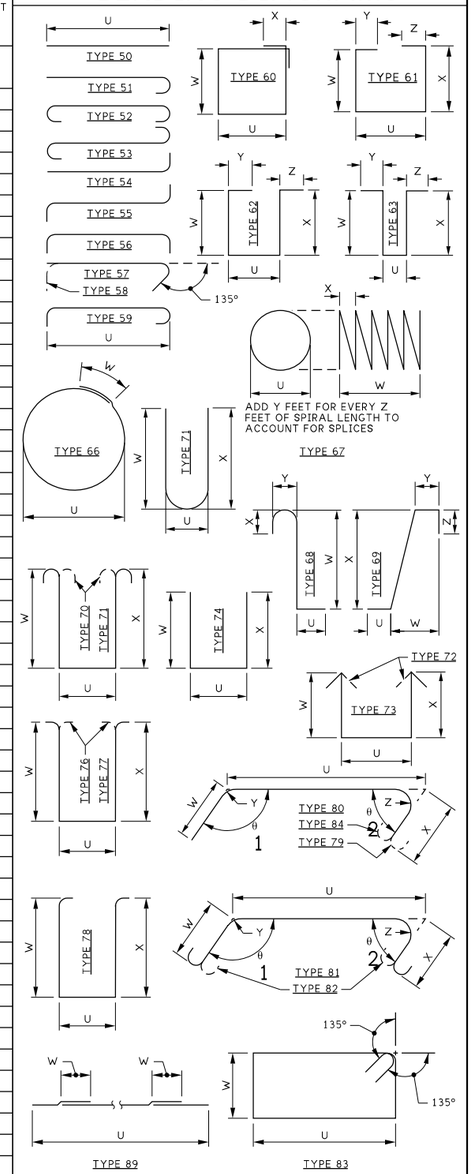
(1) T = TRANSVERSE S = SEISMIC

(2) S = BAR IS INCLUDED IN SUBSTRUCTURE QUANTITIES

(3) E = BAR IS TO BE EPOXY COATED ▽ G = BAR IS TO BE GALVANIZED ▽

(4) V = BAR DIMENSIONS VARY BETWEEN DIMENSIONS SHOWN ON THIS LINE AND THE FOLLOWING LINE

BENDING DIAGRAMS



BARLIST NOTES:

1. ALL REINFORCING BARS ON THIS SHEET SHALL BE ASTM A706 UNLESS SHOWN OTHERWISE
2. REINFORCING FOR TRAFFIC BARRIERS NOT SHOWN INTHE BAR LIST. SEE TRAFFIC BARRIER SHEETS.
3. BEND FOR TRANSVERSE BARS DUE TO ROADWAY CROWN HAS NOT BEEN SHOWN. BARS SHALL BE BENT AS REQUIRED TO CONFORM TO THE CONFIGURATION OF THE STRUCTURE.
4. THIS BAR LIST IS INTENDED TO BE USED AS A REFERENCE ONLY. NUMBER AND LENGTH OF BARS ARE TO BE DETERMINED BY THE CONTRACTOR FROM THE PRECEDING PLAN SHEETS.

FILE NAME	301_BARLIST 1.dgn
BRIDGE DES. ENG.	Leland, AC
BRIDGE PROJ. ENG.	
SUPERVISOR	Aldrich, B
DESIGNED BY	
CHECKED BY	
ENTERED BY	
PRELIM. PLAN BY	
ARCH. / SPEC.	

REVISION	DATE	BY

REGION NO. 10 | STATE WASH

JOB NUMBER 26A012

CONTRACT NO.

WSDOT

SEE CERTIFICATION SHEET DATE STAMP BOX

SEE CERTIFICATION SHEET DATE STAMP BOX

SR 544
NOOKSACK RIVER OVERFLOW CULVERT
ER PERMANENT REPAIR

NOOKSACK RIVER BRIDGE NO. 544/9

BARLIST 1 OF 2

PLAN REF NO BA49

SHEET 103 OF 119 SHEETS

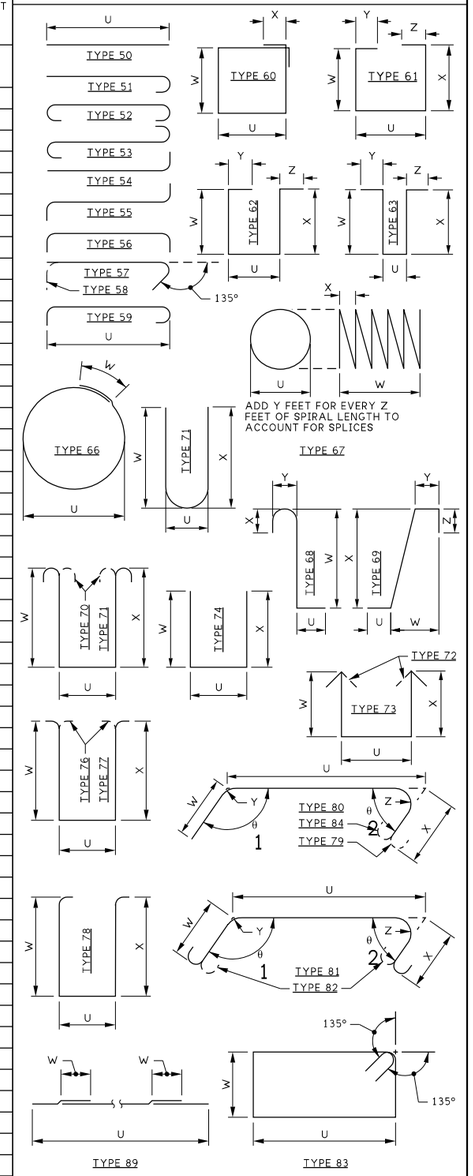
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MARK NO.	LOCATION	SIZE	QTY.	BEND TYPE	TIE OR STIRR. (1)	SUBSTR. (2)	COATING TYPE (3)	VARIES	NO. EACH	DIMENSIONS (OUT TO OUT) U Ft.	U In.	W Ft.	W In.	X Ft.	X In.	Y Ft.	Y In.	Z Ft.	Z In.	θθ1 Deg.	θθ2 Deg.	LENGTH Ft.	LENGTH In.	WEIGHT Lbs
338	Around Blockout	5	8	80						2	0.0	2	6	2	6	0	4	0	4	135	135	6	11.0	58
339	Tie Around Blockout	4	16	58	T					0	5.0											1	1.0	11
	DECK																							
301	Bot Trans.	5	248	50			E			45	6.0											45	6.0	11769
302	Bot Long.	5	77	89			E			123	8.0	2	6.0									128	8.0	10337
305	Top Long.	5	48	89			E			123	8.0	2	6.0									128	8.0	6444
306	Top Trans.	5	330	52			E			45	6.0											46	8.0	16055
307	Top Trans.	5	64	51			E			14	6.0											15	1.0	1006
308	Above Girders	5	12	89			E			123	8.0	2	6.0									128	8.0	1611
	BARRIER																							
S3	Barrier Connection	5	352	69			E			1	0.0	0	0.0	2	8.0	0	0.0	0	0.0			3	6.0	1298
S4	Barrier Connection	4	166	69			E			1	0.0	0	0.0	1	10.0	0	0.0	0	0.0			2	9.0	303
S5	Sidewalk Long.	4	5	89			E			221	0.0	2	0.0									231	0.0	772
S6	Sidewalk Trans.	4	148	56			E			5	8.0											6	9.0	671
	SHEET PILE CAP																							
401	Long.	6	12	89						525	3.0	3	0.0									549	3.0	9900
402	Stirrup	5	920	72	T					1	9.0	1	1.0	0	0.0							3	2.0	3059
403	Tie	5	460	58	T					2	4.0											3	2.0	1505
404	Stirrup	5	230	72	T					1	3.0	1	2.0	1	2.0							4	4.0	1030
407	Long. Through Sheet Pile	5	2	89						525	3.0	3	0.0									549	3.0	1146

(1) T = TRANSVERSE S = SEISMIC
(2) S = BAR IS INCLUDED IN SUBSTRUCTURE QUANTITIES
(3) E = BAR IS TO BE EPOXY COATED ▽ G = BAR IS TO BE GALVANIZED ▽
(4) V = BAR DIMENSIONS VARY BETWEEN DIMENSIONS SHOWN ON THIS LINE AND THE FOLLOWING LINE

(1) T = TRANSVERSE S = SEISMIC
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(4) V = BAR DIMENSIONS VARY BETWEEN DIMENSIONS SHOWN ON THIS LINE AND THE FOLLOWING LINE

BENDING DIAGRAMS



BARLIST NOTES:

1. ALL REINFORCING BARS ON THIS SHEET SHALL BE ASTM A706 UNLESS SHOWN OTHERWISE
2. REINFORCING FOR TRAFFIC BARRIERS NOT SHOWN INTHE BAR LIST. SEE TRAFFIC BARRIER SHEETS.
3. BEND FOR TRANSVERSE BARS DUE TO ROADWAY CROWN HAS NOT BEEN SHOWN. BARS SHALL BE BENT AS REQUIRED TO CONFORM TO THE CONFIGURATION OF THE STRUCTURE.
4. THIS BAR LIST IS INTENDED TO BE USED AS A REFERENCE ONLY. NUMBER AND LENGTH OF BARS ARE TO BE DETERMINED BY THE CONTRACTOR FROM THE PRECEDING PLAN SHEETS.

FILE NAME	302_BARLIST 2.dgn
BRIDGE DES. ENG.	Leland, AC
BRIDGE PROJ. ENG.	
SUPERVISOR	Aldrich, B
DESIGNED BY	
CHECKED BY	
ENTERED BY	
PRELIM. PLAN BY	
ARCH. / SPEC.	

REVISION	DATE	BY

REGION NO. 10 | STATE WASH
JOB NUMBER 26A012
CONTRACT NO.

WSDOT

SEE CERTIFICATION SHEET DATE
STAMP BOX

SEE CERTIFICATION SHEET DATE
STAMP BOX

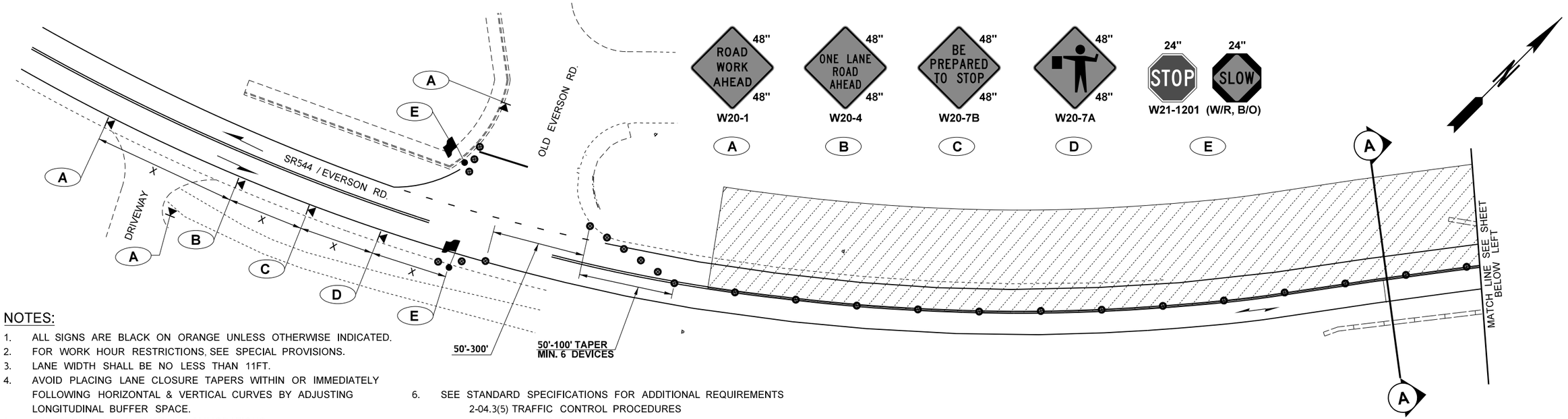
SR 544
NOOKSACK RIVER OVERFLOW CULVERT
ER PERMANENT REPAIR
NOOKSACK RIVER BRIDGE NO. 544/9

BARLIST 2 OF 2

PLAN REF NO
BA50

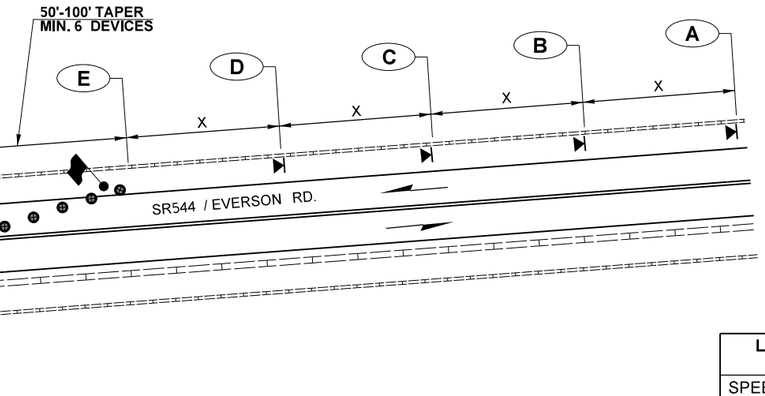
SHEET 104 OF 119 SHEETS

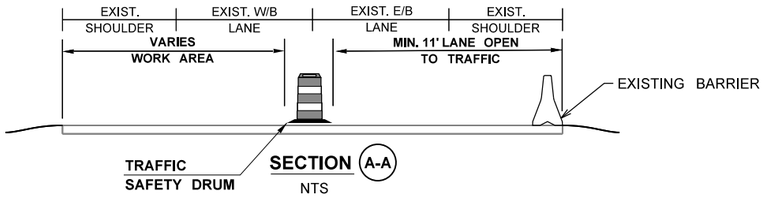
PLOT DATE: 23-Sep-2026 PLOT TIME: 11:36:10 AM PLOTTED BY: BrutzmN FILE PATH: pw://projectstore.wsdot.wa.gov:WSDOT/Documents/_HQ/Bridge & Structures/Bridge Design/_Design Projects/544/BR 544-9/2024_New Bridge_XL6549/_DGN/_Sheets/302_BARLIST 2



NOTES:

1. ALL SIGNS ARE BLACK ON ORANGE UNLESS OTHERWISE INDICATED.
2. FOR WORK HOUR RESTRICTIONS, SEE SPECIAL PROVISIONS.
3. LANE WIDTH SHALL BE NO LESS THAN 11FT.
4. AVOID PLACING LANE CLOSURE TAPERS WITHIN OR IMMEDIATELY FOLLOWING HORIZONTAL & VERTICAL CURVES BY ADJUSTING LONGITUDINAL BUFFER SPACE.
5. PEDESTRIAN & BICYCLIST ACCOMMODATIONS:
   (A) ALLOW PEDESTRIANS TO USE THE PAVED SHOULDER OR ADJACENT PATH OPPOSITE THE WORK AREA.
   (B) COMBINE BIKES & VEHICULAR TRAFFIC. BIKES TO CLEAR PRIOR TO RELEASING ONCOMING TRAFFIC
6. SEE STANDARD SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS
   2-04.3(5) TRAFFIC CONTROL PROCEDURES
   2-04.3(4)A FLAGGERS
   1-07.8(1) HIGH-VISIBILITY APPAREL
   9-35.1 24-INCH STOP/SLOW PADDLE SIZE
7. NO FLAGGERS SHALL BE PLACED ON THE BRIDGE AT ANY TIME.
8. REMOVE & COVER ALL CONFLICTING SIGNAGE PER STD SPEC. 2-04.3(6)A.





LEGEND

- FLAGGER STATION
- TEMPORARY SIGN LOCATION (1' MIN HEIGHT)
- TRAFFIC SAFETY DRUM
- WORK ZONE
- TRANSPORTABLE ATTENUATOR
- DIRECTION OF TRAVEL

ALTERNATING 1-LANE, 2-WAY TRAFFIC FLAGGER-CONTROLLED

MP (7.54 - 7.70)

0 25 50
SCALE IN FEET

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

LONGITUDINAL BUFFER SPACE = B (OPTIONAL)					
SPEED (MPH)	20	25	30	35	40
B (feet)	115	155	200	250	305
Buffer space may be adjusted (±) based on field conditions.					

RECOMMENDED SIGN SPACING = X (1)		
RURAL ROADS & URBAN ARTERIALS	35-40 MPH	350'±
RURAL ROADS & URBAN ARTERIALS RESIDENT AL & 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.		

PROTECTIVE VEHICLE ROLL AHEAD DISTANCE = R
STRATEGICALLY POSITION WORK VEHICLE TO PROTECT WORK CREW. 40' - 80' RECOMMENDED.

FILE NAME	T:\412334\XL6549 SR 544 Nooksack Overflow Repair_CAE\CAD\ContractPlans\XL6549_410_PS_TC.dgn						
TIME	8:26:11 PM						
DATE	9/24/2026						
PLOTTED BY	hardoug						
DESIGNED BY	D. HARRIS						
ENTERED BY	D. HARRIS						
CHECKED BY	E. WINTER						
PROJ. ENGR.	S. BEIER						
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY			

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER		
26A012		
CONTRACT NO.		LOCATION NO.

P.E. STAMP BOX — DATE

P.E. STAMP BOX — DATE

Washington State Department of Transportation

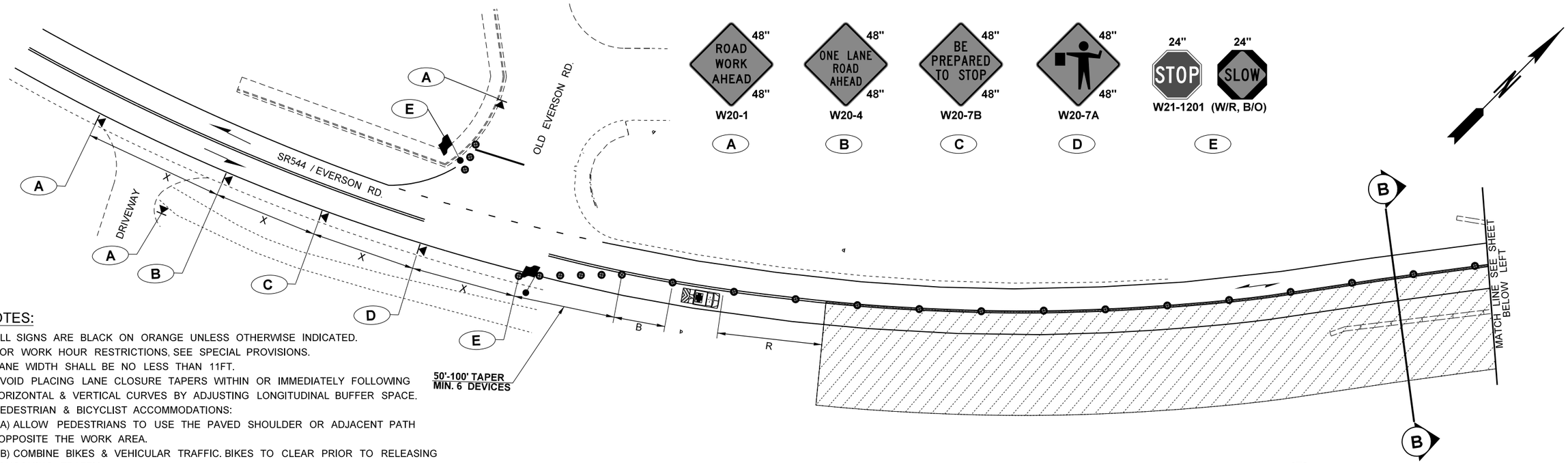
SR 544
NOOKSACK RIVER OVERFLOW CULVERT ER PERMANENT REPAIR

TRAFFIC CONTROL PLAN

Plot 1

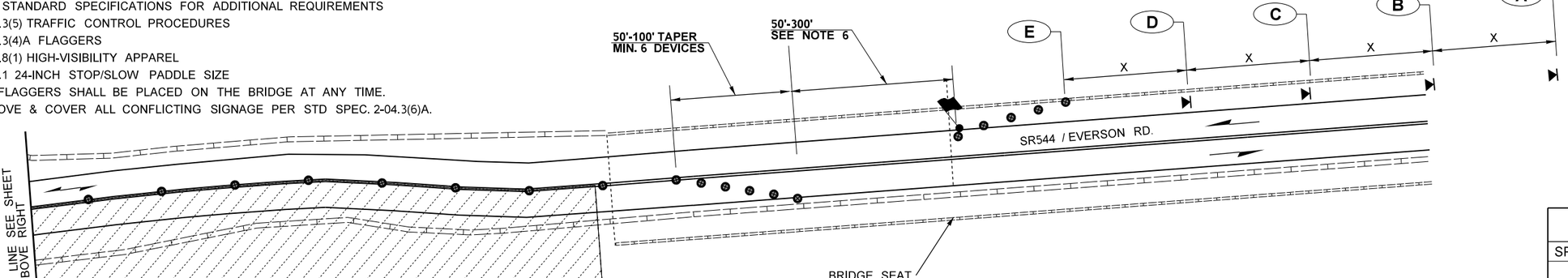
PLAN REF NO
TC1

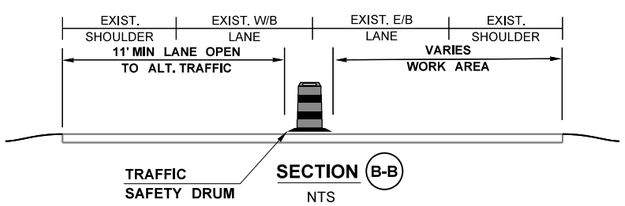
SHEET 105 OF 119 SHEETS



NOTES:

1. ALL SIGNS ARE BLACK ON ORANGE UNLESS OTHERWISE INDICATED.
2. FOR WORK HOUR RESTRICTIONS, SEE SPECIAL PROVISIONS.
3. LANE WIDTH SHALL BE NO LESS THAN 11FT.
4. AVOID PLACING LANE CLOSURE TAPERS WITHIN OR IMMEDIATELY FOLLOWING HORIZONTAL & VERTICAL CURVES BY ADJUSTING LONGITUDINAL BUFFER SPACE.
5. PEDESTRIAN & BICYCLIST ACCOMMODATIONS:
   (A) ALLOW PEDESTRIANS TO USE THE PAVED SHOULDER OR ADJACENT PATH OPPOSITE THE WORK AREA.
   (B) COMBINE BIKES & VEHICULAR TRAFFIC. BIKES TO CLEAR PRIOR TO RELEASING ONCOMING TRAFFIC
6. SEE STANDARD SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS
   2-04.3(5) TRAFFIC CONTROL PROCEDURES
   2-04.3(4)A FLAGGERS
   1-07.8(1) HIGH-VISIBILITY APPAREL
   9-35.1 24-INCH STOP/SLOW PADDLE SIZE
7. NO FLAGGERS SHALL BE PLACED ON THE BRIDGE AT ANY TIME.
8. REMOVE & COVER ALL CONFLICTING SIGNAGE PER STD SPEC. 2-04.3(6)A.





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

LONGITUDINAL BUFFER SPACE = B (OPTIONAL)					
SPEED (MPH)	20	25	30	35	40
B (feet)	115	155	200	250	305
Buffer space may be adjusted (±) based on field conditions.					

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PROTECTIVE VEHICLE ROLL AHEAD DISTANCE = R
STRATEGICALLY POSITION WORK VEHICLE TO PROTECT WORK CREW. 40' - 80' RECOMMENDED.

LEGEND

- FLAGGER STATION
- TEMPORARY SIGN LOCATION (1' MIN HEIGHT)
- TRAFFIC SAFETY DRUM
- WORK ZONE
- TRANSPORTABLE ATTENUATOR
- DIRECTION OF TRAVEL

ALTERNATING 1-LANE, 2-WAY TRAFFIC FLAGGER-CONTROLLED

MP (7.54 - 7.70)

0 25 50
SCALE IN FEET

FILE NAME	T:\412334\XL6549 SR 544 Nooksack Overflow Repair_CAE\CAD\ContractPlans\XL6549_410_PS_TC.dgn			
TIME	8:26:17 PM			
DATE	9/24/2026			
PLOTTED BY	hardoug			
DESIGNED BY	D. HARRIS			
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CHECKED BY	E. WINTER			
PROJ. ENGR.	S. BEIER			
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY

REGION NO.	STATE
10	WASH

JOB NUMBER 26A012
CONTRACT NO.
FED.AID PROJ.NO.
LOCATION NO.

P.E. STAMP BOX — DATE
P.E. STAMP BOX — DATE

Washington State Department of Transportation

SR 544
NOOKSACK RIVER OVERFLOW CULVERT ER PERMANENT REPAIR

TRAFFIC CONTROL PLAN

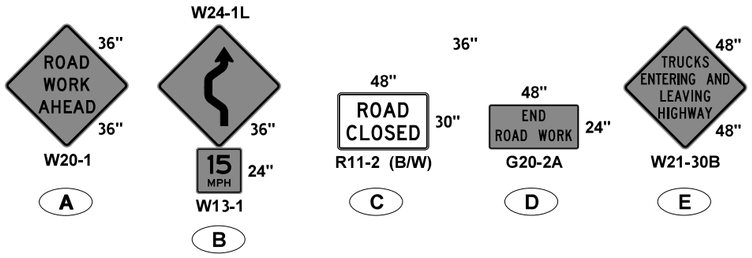
Plot 2
PLAN REF NO TC2
SHEET 106 OF 119 SHEETS

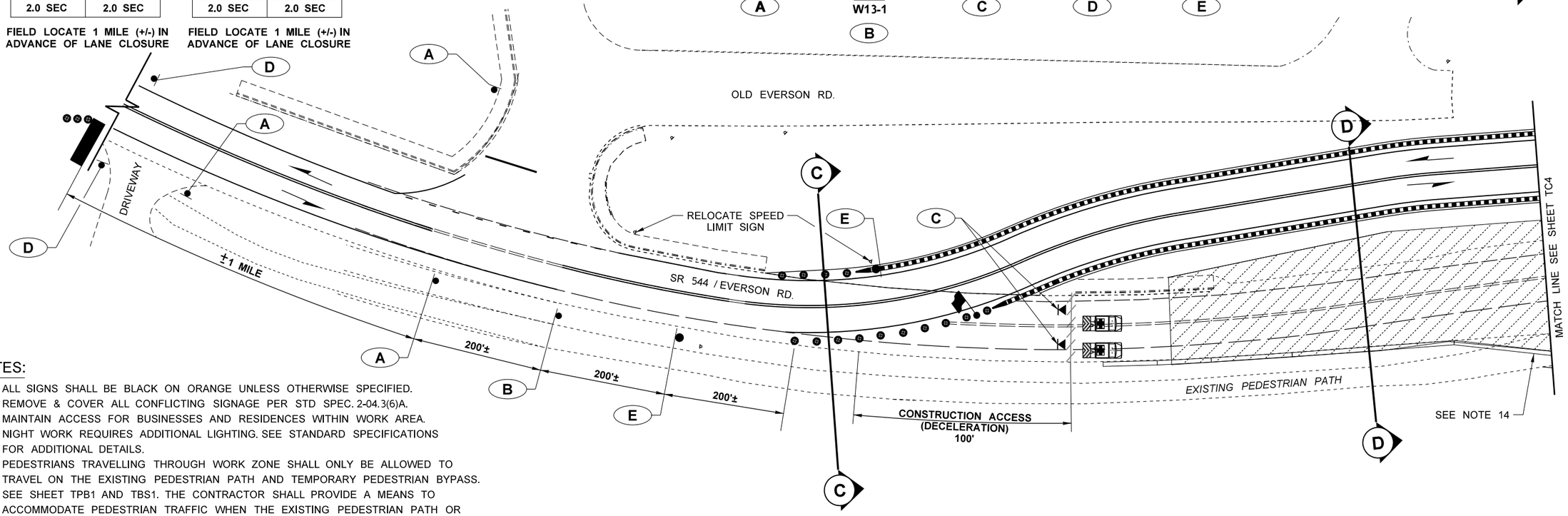
5 CALENDAR DAYS BEFORE CONSTRUCTION BEGINS	
PCMS MESSAGE #1	
PHASE 1	PHASE 2
ROAD WORK	STARTS XX / XX
2.0 SEC	2.0 SEC

FIELD LOCATE 1 MILE (+/-) IN ADVANCE OF LANE CLOSURE

DURING CONSTRUCTION	
PCMS MESSAGE #2	
PHASE 1	PHASE 2
TRAFFIC REVISION AHEAD	1 MILE
2.0 SEC	2.0 SEC

FIELD LOCATE 1 MILE (+/-) IN ADVANCE OF LANE CLOSURE



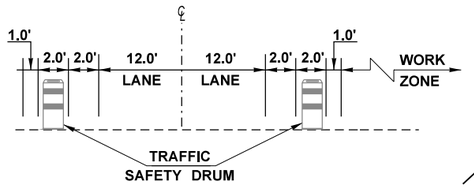


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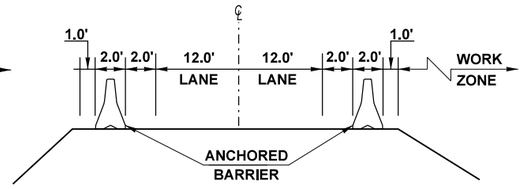
1. ALL SIGNS SHALL BE BLACK ON ORANGE UNLESS OTHERWISE SPECIFIED.
8. REMOVE & COVER ALL CONFLICTING SIGNAGE PER STD SPEC. 2-04.3(6)A.
9. MAINTAIN ACCESS FOR BUSINESSES AND RESIDENCES WITHIN WORK AREA.
10. NIGHT WORK REQUIRES ADDITIONAL LIGHTING. SEE STANDARD SPECIFICATIONS FOR ADDITIONAL DETAILS.
11. PEDESTRIANS TRAVELLING THROUGH WORK ZONE SHALL ONLY BE ALLOWED TO TRAVEL ON THE EXISTING PEDESTRIAN PATH AND TEMPORARY PEDESTRIAN BYPASS. SEE SHEET TPB1 AND TBS1. THE CONTRACTOR SHALL PROVIDE A MEANS TO ACCOMMODATE PEDESTRIAN TRAFFIC WHEN THE EXISTING PEDESTRIAN PATH OR TEMPORARY PEDESTRIAN BYPASS IS CLOSED. THIS MAY INCLUDE ESCORTING PEDESTRIANS THROUGH THE WORK AREA OR SHUTTLING AS NEEDED.
12. SPOTTERS SHALL BE USED TO ASSIST IN MOVING TYPE 3 BARRICADES DURING INGRESS/EGRESS OF CONSTRUCTION VEHICLES. FLAGGERS SHALL BE USED TO STOP TRAFFIC WHEN CONSTRUCTION VEHICLES NEED TO CROSS LANES ON INGRESS/EGRESS.
13. F-SHAPE TEMPORARY BARRIER PERMITTED. SLOPED CONCRETE TERMINAL ALLOWED FOR REGULATORY WORK ZONE SPEED LIMITS 25 MPH OR LESS. F- SHAPE TEMPORARY BARRIER PER STANDARD PLAN C-60.10 (C-60.15 IF SCUPPERS USED FOR DRAINAGE) AND STANDARD PLAN C-60.80 FOR F-SHAPE CONCRETE BARRIER TERMINAL.
14. UTILIZE EXISTING CONCRETE BARRIER TO PROTECT PEDESTRIAN PATH.

LEGEND

- TRAFFIC SAFETY DRUM
- CLASS A SIGN LOCATION
- TEMPORARY SIGN LOCATION (1' MIN HEIGHT)
- WORK ZONE
- TEMPORARY BARRIER TYPE F
- TEMPORARY CONC. BARRIER TERMINAL
- TYPE 3 BARRICADE
- TRANSPORTABLE ATTENUATOR
- PORTABLE CHANGEABLE MESSAGE SIGN
- DIRECTION OF TRAVEL
- FLAGGER/SPOTTER



SECTION C-C
NTS



SECTION D-D
NTS

2-LANE BYPASS TRAFFIC CONTROL
MP (7.54 - 7.70)

0 25 50
SCALE IN FEET

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

RECOMMENDED SIGN SPACING = X (1)		
RURAL ROADS & URBAN ARTERIALS	35-40 MPH	350'±
RURAL ROADS & URBAN ARTERIALS RESIDENT AL & 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.

PROTECTIVE VEHICLE ROLL AHEAD DISTANCE = R
STRATEGICALLY POSITION WORK VEHICLE TO PROTECT WORK CREW. 40' - 80' RECOMMENDED.

FILE NAME	T:\412334\XL6549 SR 544 Nooksack Overflow Repair_CAE\CAD\ContractPlans\XL6549_410_PS_TC.dgn				REGION NO.	STATE	FED.AID PROJ.NO.
TIME	8:26:32 PM				10	WASH	
DATE	9/24/2026				JOB NUMBER		
PLOTTED BY	hardoug				26A012		
DESIGNED BY	D. HARRIS				CONTRACT NO.		LOCATION NO.
ENTERED BY	D. HARRIS						
CHECKED BY	E. WINTER						
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 544
NOOKSACK RIVER OVERFLOW CULVERT ER PERMANENT REPAIR

TRAFFIC CONTROL PLAN

Plot 3

PLAN REF NO
TC3

SHEET 107 OF 119 SHEETS

5 CALENDAR DAYS BEFORE CONSTRUCTION BEGINS

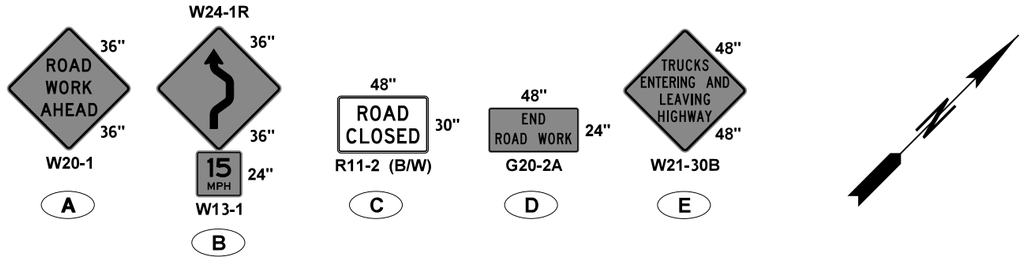
PCMS MESSAGE #1	
PHASE 1	PHASE 2
ROAD WORK	STARTS XX / XX
2.0 SEC	2.0 SEC

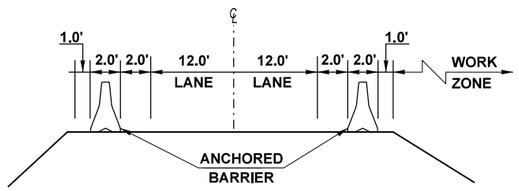
FIELD LOCATE 1 MILE (+/-) IN ADVANCE OF LANE CLOSURE

DURING CONSTRUCTION

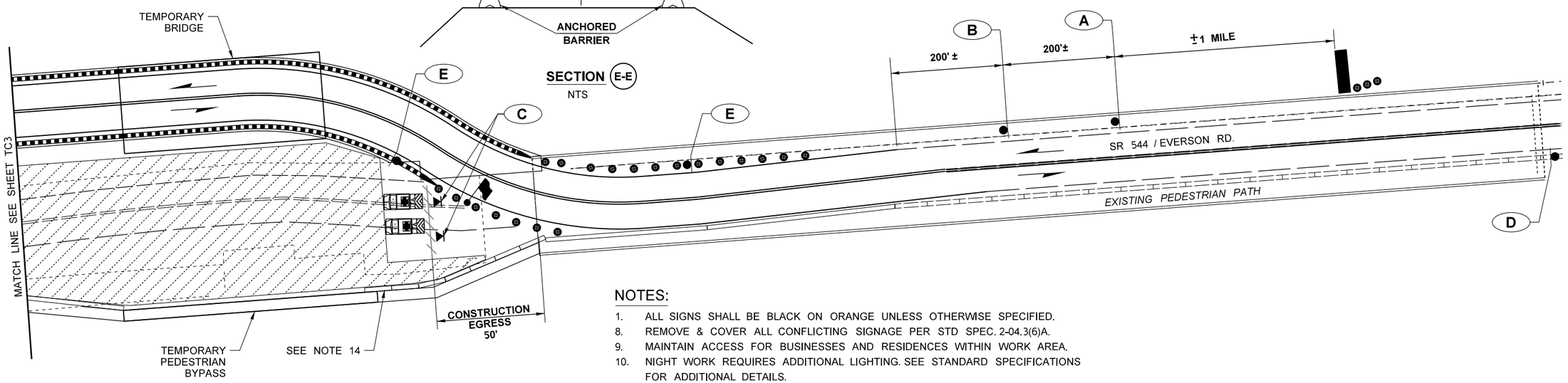
PCMS MESSAGE #2	
PHASE 1	PHASE 2
TRAFFIC REVISION AHEAD	1 MILE
2.0 SEC	2.0 SEC

FIELD LOCATE 1 MILE (+/-) IN ADVANCE OF LANE CLOSURE





SECTION (E-E)
NTS



NOTES:

1. ALL SIGNS SHALL BE BLACK ON ORANGE UNLESS OTHERWISE SPECIFIED.
8. REMOVE & COVER ALL CONFLICTING SIGNAGE PER STD SPEC. 2-04.3(6)A.
9. MAINTAIN ACCESS FOR BUSINESSES AND RESIDENCES WITHIN WORK AREA.
10. NIGHT WORK REQUIRES ADDITIONAL LIGHTING. SEE STANDARD SPECIFICATIONS FOR ADDITIONAL DETAILS.
11. PEDESTRIANS TRAVELLING THROUGH WORK ZONE SHALL ONLY BE ALLOWED TO TRAVEL ON THE EXISTING PEDESTRIAN PATH AND TEMPORARY PEDESTRIAN BYPASS. SEE SHEET TPB1 AND TBS1. THE CONTRACTOR SHALL PROVIDE A MEANS TO ACCOMMODATE PEDESTRIAN TRAFFIC WHEN THE EXISTING PEDESTRIAN PATH OR TEMPORARY PEDESTRIAN BYPASS IS CLOSED. THIS MAY INCLUDE ESCORTING PEDESTRIANS THROUGH THE WORK AREA OR SHUTTLING AS NEEDED.
12. SPOTTERS SHALL BE USED TO ASSIST IN MOVING TYPE 3 BARRICADES DURING INGRESS/EGRESS OF CONSTRUCTION VEHICLES. FLAGGERS SHALL BE USED TO STOP TRAFFIC WHEN CONSTRUCTION VEHICLES NEED TO CROSS LANES ON INGRESS/EGRESS.
13. F-SHAPE TEMPORARY BARRIER PERMITTED. SLOPED CONCRETE TERMINAL ALLOWED FOR REGULATORY WORK ZONE SPEED LIMITS 25 MPH OR LESS. F- SHAPE TEMPORARY BARRIER PER STANDARD PLAN C-60.10 (C-60.15 IF SCUPPERS USED FOR DRAINAGE) AND STANDARD PLAN C-60.80 FOR F-SHAPE CONCRETE BARRIER TERMINAL.
14. UTILIZE EXISTING CONCRETE BARRIER TO PROTECT PEDESTRIAN PATH.

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

RECOMMENDED SIGN SPACING = X (1)		
RURAL ROADS & URBAN ARTERIALS	35-40 MPH	350'±
RURAL ROADS & URBAN ARTERIALS RESIDENT AL & 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.

PROTECTIVE VEHICLE ROLL AHEAD DISTANCE = R
STRATEGICALLY POSITION WORK VEHICLE TO PROTECT WORK CREW. 40' - 80' RECOMMENDED.

LEGEND

- TRAFFIC SAFETY DRUM
- CLASS A SIGN LOCATION
- TEMPORARY SIGN LOCATION (1' MIN HEIGHT)
- WORK ZONE
- TEMPORARY BARRIER TYPE F
- TEMPORARY CONC. BARRIER TERMINAL
- TYPE 3 BARRICADE
- TRANSPORTABLE ATTENUATOR
- PORTABLE CHANGEABLE MESSAGE SIGN
- DIRECTION OF TRAVEL
- FLAGGER/SPOTTER

2-LANE BYPASS TRAFFIC CONTROL
MP (7.54 - 7.70)

0 25 50
SCALE IN FEET

FILE NAME	T:\412334\XL6549 SR 544 Nooksack Overflow Repair_CAE\CAD\ContractPlans\XL6549_410_PS_TC.dgn				REGION NO.	STATE	FED.AID PROJ.NO.
TIME	8:26:43 PM				10	WASH	
DATE	9/24/2026				JOB NUMBER		
PLOTTED BY	hardoug				26A012		
DESIGNED BY	D. HARRIS				CONTRACT NO.		LOCATION NO.
ENTERED BY	D. HARRIS						
CHECKED BY	E WINTER						
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

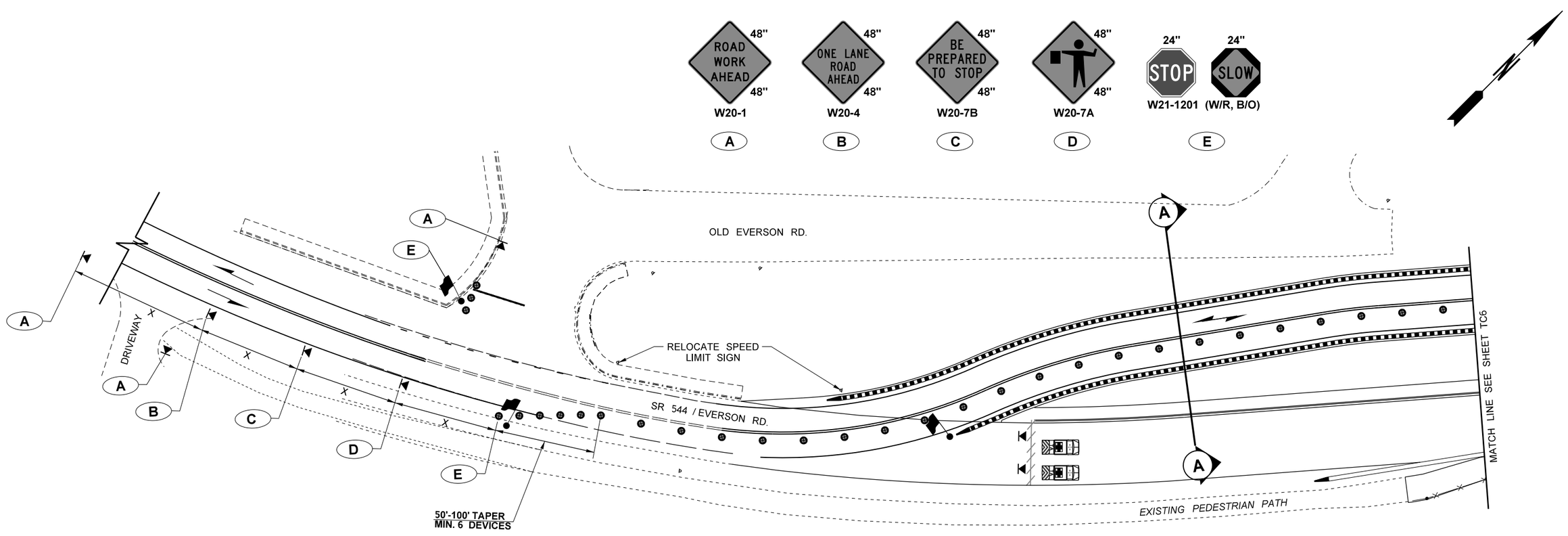
SR 544
NOOKSACK RIVER OVERFLOW CULVERT ER PERMANENT REPAIR

TRAFFIC CONTROL PLAN

Plot 4

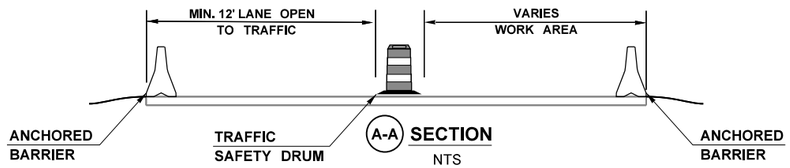
PLAN REF NO
TC4

SHEET 108 OF 119 SHEETS



NOTES:

1. ALL SIGNS ARE BLACK ON ORANGE UNLESS OTHERWISE INDICATED.
2. FOR WORK HOUR RESTRICTIONS, SEE SPECIAL PROVISIONS.
3. LANE WIDTH SHALL BE NO LESS THAN 12FT.
4. AVOID PLACING LANE CLOSURE TAPERS WITHIN OR IMMEDIATELY FOLLOWING HORIZONTAL & VERTICAL CURVES BY ADJUSTING LONGITUDINAL BUFFER SPACE.
6. SEE STANDARD SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS
   - 2-04.3(5) TRAFFIC CONTROL PROCEDURES
   - 2-04.3(4)A FLAGGERS
   - 1-07.8(1) HIGH-VISIBILITY APPAREL
   - 9-35.1 24-INCH STOP/SLOW PADDLE SIZE
8. REMOVE & COVER ALL CONFLICTING SIGNAGE PER STD SPEC. 2-04.3(6)A.
11. PEDESTRIANS TRAVELLING THROUGH WORK ZONE SHALL ONLY BE ALLOWED TO TRAVEL ON THE EXISTING PEDESTRIAN PATH AND TEMPORARY PEDESTRIAN BYPASS. SEE SHEET TPB1 AND TBS1. THE CONTRACTOR SHALL PROVIDE A MEANS TO ACCOMMODATE PEDESTRIAN TRAFFIC WHEN THE EXISTING PEDESTRIAN PATH OR TEMPORARY PEDESTRIAN BYPASS IS CLOSED. THIS MAY INCLUDE ESCORTING PEDESTRIANS THROUGH THE WORK AREA OR SHUTTLING AS NEEDED.
12. SPOTTERS SHALL BE USED TO ASSIST IN MOVING TYPE 3 BARRICADES DURING INGRESS/EGRESS OF CONSTRUCTION VEHICLES. FLAGGERS SHALL BE USED TO STOP TRAFFIC WHEN CONSTRUCTION VEHICLES NEED TO CROSS LANES ON INGRESS/EGRESS.



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

RECOMMENDED SIGN SPACING = X (1)		
RURAL ROADS & URBAN ARTERIALS	35-40 MPH	350'±
RURAL ROADS & URBAN ARTERIALS RESIDENT AL & 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.

PROTECTIVE VEHICLE ROLL AHEAD DISTANCE = R
STRATEGICALLY POSITION WORK VEHICLE TO PROTECT WORK CREW. 40' - 80' RECOMMENDED.

LEGEND

- TRAFFIC SAFETY DRUM
- TEMPORARY SIGN LOCATION (1' MIN HEIGHT)
- WORK ZONE
- TEMPORARY BARRIER TYPE F
- TEMPORARY CONC. BARRIER TERMINAL
- TYPE 3 BARRICADE
- TRANSPORTABLE ATTENUATOR
- DIRECTION OF TRAVEL
- FLAGGER/SPOTTER

ALTERNATING 1-LANE, 2-WAY TRAFFIC FLAGGER-CONTROLLED DURING BYPASS

MP (7.54 - 7.70)

0 25 50
SCALE IN FEET

FILE NAME	T:\412334\XL6549 SR 544 Nooksack Overflow Repair_CAE\CAD\ContractPlans\XL6549_410_PS_TC.dgn				REGION NO.	STATE	FED.AID PROJ.NO.
TIME	8:26:49 PM				10	WASH	
DATE	9/24/2026				JOB NUMBER		
PLOTTED BY	hardoug				26A012		
DESIGNED BY	D. HARRIS				CONTRACT NO.		LOCATION NO.
ENTERED BY	D. HARRIS						
CHECKED BY	E WINTER						
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

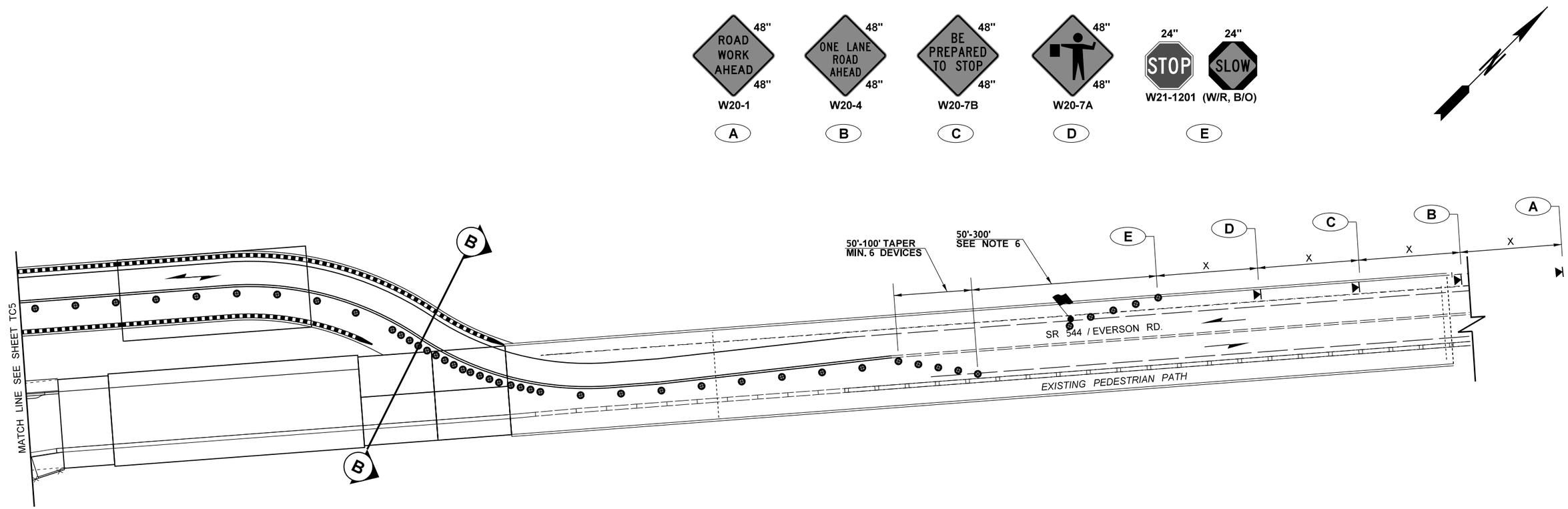
SR 544
NOOKSACK RIVER OVERFLOW CULVERT ER PERMANENT REPAIR

TRAFFIC CONTROL PLAN

Plot 5

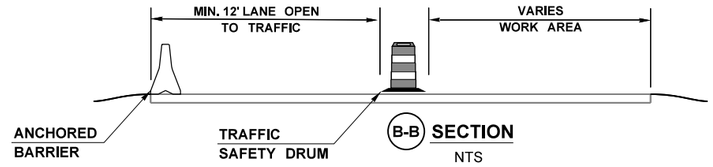
PLAN REF NO
TC5

SHEET 109 OF 119 SHEETS



NOTES:

1. ALL SIGNS ARE BLACK ON ORANGE UNLESS OTHERWISE INDICATED.
2. FOR WORK HOUR RESTRICTIONS, SEE SPECIAL PROVISIONS.
3. LANE WIDTH SHALL BE NO LESS THAN 12FT.
4. AVOID PLACING LANE CLOSURE TAPERS WITHIN OR IMMEDIATELY FOLLOWING HORIZONTAL & VERTICAL CURVES BY ADJUSTING LONGITUDINAL BUFFER SPACE.
6. SEE STANDARD SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS
   2-04.3(5) TRAFFIC CONTROL PROCEDURES
   2-04.3(4)A FLAGGERS
   1-07.8(1) HIGH-VISIBILITY APPAREL
   9-35.1 24-INCH STOP/SLOW PADDLE SIZE
8. REMOVE & COVER ALL CONFLICTING SIGNAGE PER STD SPEC. 2-04.3(6)A.
11. PEDESTRIANS TRAVELLING THROUGH WORK ZONE SHALL ONLY BE ALLOWED TO TRAVEL ON THE EXISTING PEDESTRIAN PATH AND TEMPORARY PEDESTRIAN BYPASS. SEE SHEET TPB1 AND TBS1. THE CONTRACTOR SHALL PROVIDE A MEANS TO ACCOMMODATE PEDESTRIAN TRAFFIC WHEN THE EXISTING PEDESTRIAN PATH OR TEMPORARY PEDESTRIAN BYPASS IS CLOSED. THIS MAY INCLUDE ESCORTING PEDESTRIANS THROUGH THE WORK AREA OR SHUTTLING AS NEEDED.
12. SPOTTERS SHALL BE USED TO ASSIST IN MOVING TYPE 3 BARRICADES DURING INGRESS/EGRESS OF CONSTRUCTION VEHICLES. FLAGGERS SHALL BE USED TO STOP TRAFFIC WHEN CONSTRUCTION VEHICLES NEED TO CROSS LANES ON INGRESS/EGRESS.



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

RECOMMENDED SIGN SPACING = X (1)		
RURAL ROADS & URBAN ARTERIALS	35-40 MPH	350'±
RURAL ROADS & URBAN ARTERIALS RESIDENT AL & 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.

PROTECTIVE VEHICLE ROLL AHEAD DISTANCE = R
STRATEGICALLY POSITION WORK VEHICLE TO PROTECT WORK CREW. 40' - 80' RECOMMENDED.

LEGEND

- TRAFFIC SAFETY DRUM
- TEMPORARY SIGN LOCATION (1' MIN HEIGHT)
- WORK ZONE
- TEMPORARY BARRIER TYPE F
- TEMPORARY CONC. BARRIER TERMINAL
- TYPE 3 BARRICADE
- TRANSPORTABLE ATTENUATOR
- DIRECTION OF TRAVEL
- FLAGGER/SPOTTER

ALTERNATING 1-LANE, 2-WAY TRAFFIC FLAGGER-CONTROLLED DURING BYPASS
MP (7.54 - 7.70)

0 25 50
SCALE IN FEET

FILE NAME	T:\412334\XL6549 SR 544 Nooksack Overflow Repair_CAE\CAD\ContractPlans\XL6549_410_PS_TC.dgn						
TIME	8:26:54 PM				REGION NO. 10	STATE WASH	FED.AID PROJ.NO.
DATE	9/24/2026						
PLOTTED BY	hardoug						
DESIGNED BY	D. HARRIS				JOB NUMBER 26A012		
ENTERED BY	D. HARRIS						
CHECKED BY	E. WINTER				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 544
NOOKSACK RIVER OVERFLOW CULVERT ER PERMANENT REPAIR

TRAFFIC CONTROL PLAN

Plot 6

PLAN REF NO TC6

SHEET 110 OF 119 SHEETS

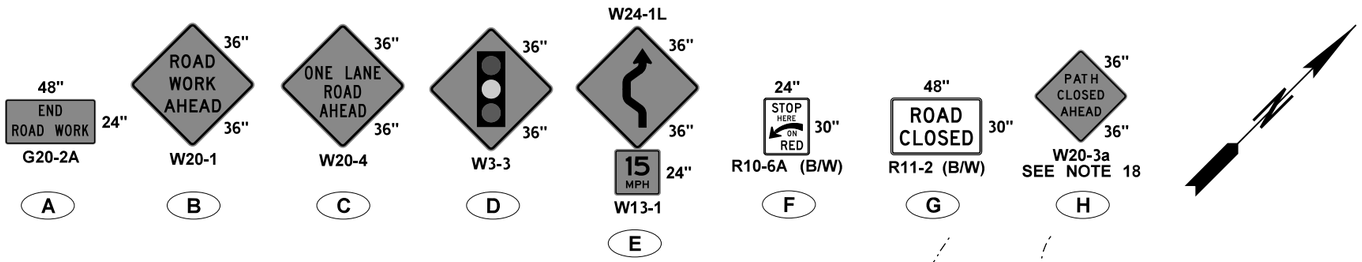
mPCMS	
1	2
TRAFFIC SIGNAL 1.5 MILES	ROADWAY NARROWS 12' WIDE
2.0 SEC	2.0 SEC

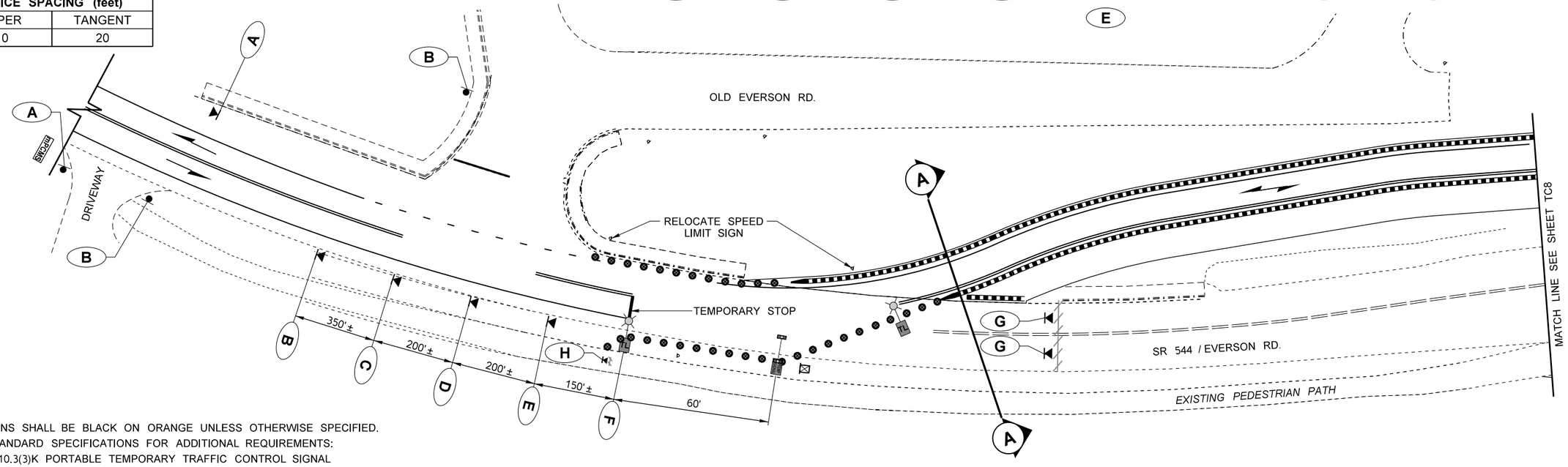
FIELD LOCATE 1/2 ± MILES PRIOR TO TEMP SIGNAL PER STD. SPEC. 1-10.3(3)C.

WAIT-TIME DISPLAY VMS		
GREEN	YELLOW	RED
15 MPH ZONE	(Blank)	WAIT #:##

#:## = MINUTES:SECONDS UNTIL GREEN.
LOCATE VMS ON TEMP SIGNAL MAST ARM.

MAXIMUM CHANNELIZATION DEVICE SPACING (feet)	
TAPER	TANGENT
10	20



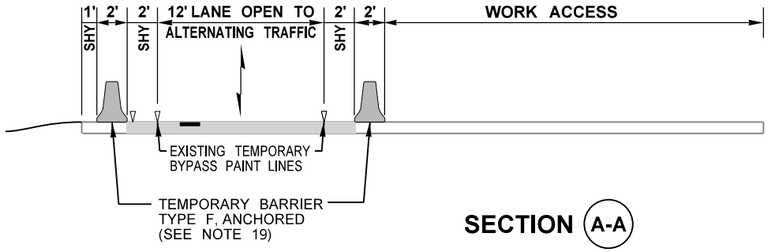


NOTES:

1. ALL SIGNS SHALL BE BLACK ON ORANGE UNLESS OTHERWISE SPECIFIED.
6. SEE STANDARD SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS:
   1-10.3(3)K PORTABLE TEMPORARY TRAFFIC CONTROL SIGNAL
   6-10.3(5) TEMPORARY BARRIER
   8-23.3(4) TEMPORARY PAVEMENT MARKINGS - LONG DURATION
   9-35.14 PORTABLE TEMPORARY TRAFFIC CONTROL SIGNAL
8. REMOVE & COVER ALL CONFLICTING SIGNAGE PER STD SPEC. 2-04.3(6)A.
15. ALL TEMPORARY TRAFFIC SIGNAL TIMING PLANS MUST BE APPROVED BY THE ENGINEER. THE CONTRACTOR SHALL PROVIDE A DEFAULT SIGNAL TIMING PLAN DESIGNED FOR VEHICLES FOR APPROVAL.
16. TRAFFIC CONTROL MANAGER, TRAFFIC CONTROL SUPERVISOR (PRIMARY AND ALTERNATE), AND WSDOT ENGINEER SHALL BE NOTIFIED VIA EMAIL, TEXT, AND/OR PAGE IF ANY TEMPORARY SIGNAL MALFUNCTIONS.

LEGEND

- TEMPORARY TRAFFIC SIGNAL
- TEMPORARY LIGHTING
- TEMPORARY SIGN LOCATION (1' MIN HEIGHT)
- **CLASS A SIGN LOCATION**
- CLASS A TRIPOD-MOUNTED SIGN LOCATION (5' MIN. HEIGHT)
- TRAFFIC SAFETY DRUM
- mini PORTABLE CHANGEABLE MESSAGE SIGN
- DIRECTION OF TRAVEL
- TEMPORARY BARRIER TYPE F
- TEMPORARY CONC. BARRIER TERMINAL
- **TYPE 2 BARRICADE WITH SIGN**
- **TYPE 3 BARRICADE WITH SIGN**



SECTION A-A

ADVANCED TEMPORARY SIGNAL-CONTROLLED ALTERNATING 1-LANE, 2-WAY TRAFFIC CONTROL

MP (7.54 - 7.70)

0 25 50
SCALE IN FEET

17. PROVIDE AT LEAST 4 FEET OF LATERAL CLEARANCE FROM THE TRAVEL LANE TO THE TEMP SIGNAL AND TEMPORARY LIGHTING. THESE DEVICES SHALL BE PLACED BEHIND TEMPORARY BARRIER OR TRAFFIC SAFETY DRUM. THE STRUCTURAL LOADING ON THE TEMPORARY SIGNAL MAST ARM SHALL BE VERIFIED TO BE SUFFICIENT. IF A GRAVEL LEVELING PAD IS NEEDED, CONTACT THE ENGINEER PRIOR TO INSTALLATION.
18. FULL CLOSURE OF THE EXISTING PEDESTRIAN PATH SHALL BE DONE DURING TRAFFIC CONTROL AS SHOWN ON PLAN. SHUTTLE BUS SERVICE SHALL BE PROVIDED TO ACCOMMODATE PEDESTRIANS DURING THE CLOSURE OF THE EXISTING PEDESTRIAN PATH.
19. TYPE 2 OR F-SHAPE TEMPORARY BARRIER PERMITTED, UNLESS SPECIFIED. SLOPED CONCRETE TERMINAL ALLOWED FOR REGULATORY WORK ZONE SPEED LIMITS 25 MPH OR LESS. F- SHAPE TEMPORARY BARRIER PER STANDARD PLAN C-60.10 (C-60.15 IF SCUPPERS USED FOR DRAINAGE) AND STANDARD PLAN C-60.80 FOR F-SHAPE CONCRETE BARRIER TERMINAL.
20. ADDITIONAL TEMPORARY BARRIERS SHALL BE PLACED ALONG THE TEMPORARY BYPASS, AS SHOWN ON THE PLAN, TO PREVENT TRAFFIC FROM ENTERING.
21. ALL CONFLICTING PAVEMENT MARKINGS SHALL BE REMOVED OR COVERED WITH BLACK TEMPORARY TAPE. THOSE WITHIN THE WORK ACCESS AREA MAY REMAIN AS SHOWN.
22. FOR PROJECT-SPECIFIC REQUIREMENTS, SEE SPECIAL PROVISIONS.

FILE NAME	T:\412334\XL6549 SR 544 Nooksack Overflow Repair_CAE\CAD\ContractPlans\XL6549_410_PS_TC.dgn			
TIME	8:27:02 PM			
DATE	9/24/2026			
PLOTTED BY	hardoug			
DESIGNED BY	D. HARRIS			
ENTERED BY	D. HARRIS			
CHECKED BY	E. WINTER			
PROJ. ENGR.	S. BEIER			
REGIONAL ADM.	B. NEILSEN	REVISION	DATE	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER 26A012		
CONTRACT NO.	LOCATION NO.	

P.E. STAMP BOX — DATE

P.E. STAMP BOX — DATE

Washington State Department of Transportation

SR 544
NOOKSACK RIVER OVERFLOW CULVERT ER PERMANENT REPAIR

TRAFFIC CONTROL PLAN

Plot 7

PLAN REF NO
TC7

SHEET 111 OF 119 SHEETS

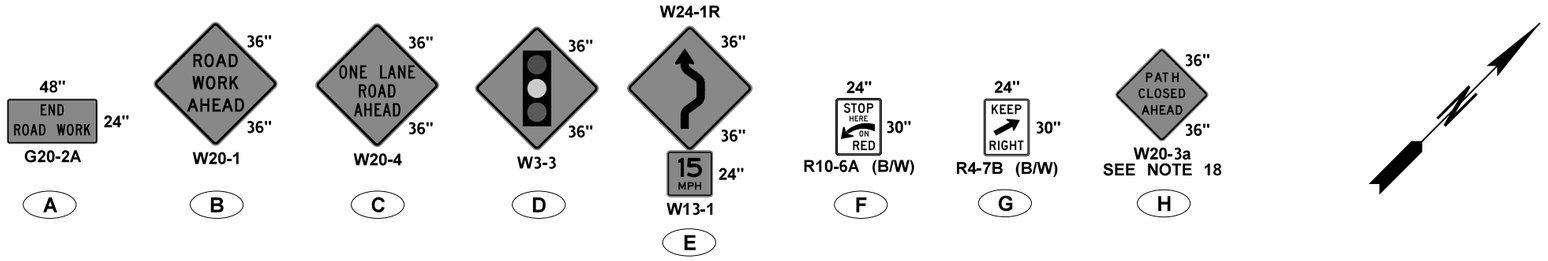
mPCMS	
1	2
TRAFFIC SIGNAL 1.5 MILES	ROADWAY NARROWS 12' WIDE
2.0 SEC	2.0 SEC

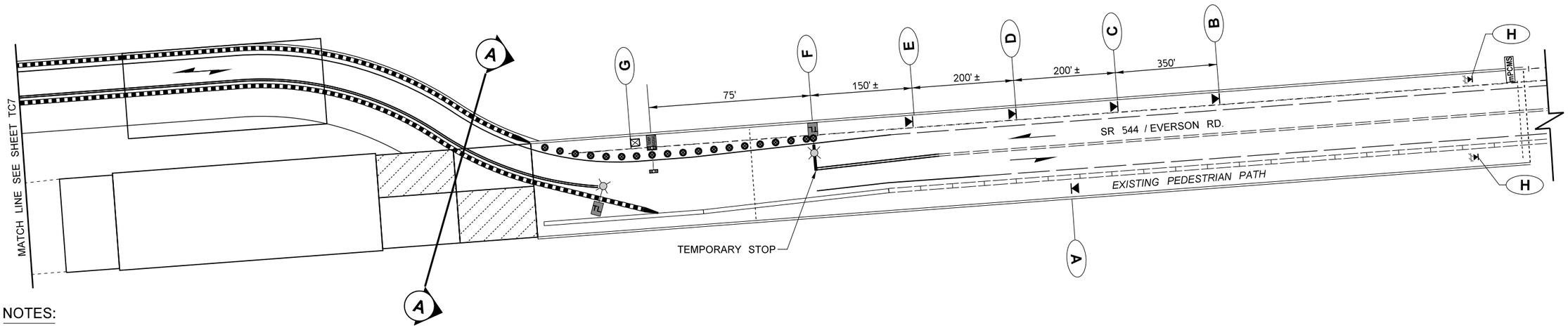
FIELD LOCATE 1/2 ± MILES PRIOR TO TEMP SIGNAL PER STD. SPEC. 1-10.3(3)C.

WAIT-TIME DISPLAY VMS		
GREEN	YELLOW	RED
15 MPH ZONE	(Blank)	WAIT #:##

#:## = MINUTES:SECONDS UNTIL GREEN.
LOCATE VMS ON TEMP SIGNAL MAST ARM.

MAXIMUM CHANNELIZATION DEVICE SPACING (feet)	
TAPER	TANGENT
10	20



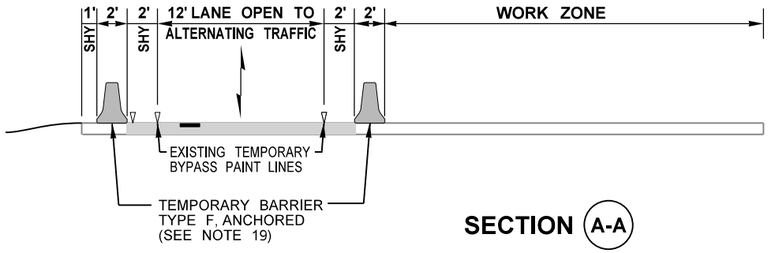


NOTES:

1. ALL SIGNS SHALL BE BLACK ON ORANGE UNLESS OTHERWISE SPECIFIED.
6. SEE STANDARD SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS:
   1-10.3(3)K PORTABLE TEMPORARY TRAFFIC CONTROL SIGNAL
   6-10.3(5) TEMPORARY BARRIER
   8-23.3(4) TEMPORARY PAVEMENT MARKINGS - LONG DURATION
   9-35.14 PORTABLE TEMPORARY TRAFFIC CONTROL SIGNAL
8. REMOVE & COVER ALL CONFLICTING SIGNAGE PER STD SPEC. 2-04.3(6)A.
15. ALL TEMPORARY TRAFFIC SIGNAL TIMING PLANS MUST BE APPROVED BY THE ENGINEER. THE CONTRACTOR SHALL PROVIDE A DEFAULT SIGNAL TIMING PLAN DESIGNED FOR VEHICLES FOR APPROVAL.
16. TRAFFIC CONTROL MANAGER, TRAFFIC CONTROL SUPERVISOR (PRIMARY AND ALTERNATE), AND WSDOT ENGINEER SHALL BE NOTIFIED VIA EMAIL, TEXT, AND/OR PAGE IF ANY TEMPORARY SIGNAL MALFUNCTIONS.

LEGEND

- TEMPORARY TRAFFIC SIGNAL
- TEMPORARY LIGHTING
- TEMPORARY SIGN LOCATION (1' MIN HEIGHT)
- WORK ZONE
- CLASS A TRIPOD-MOUNTED SIGN LOCATION (5' MIN. HEIGHT)
- TRAFFIC SAFETY DRUM
- mini PORTABLE CHANGEABLE MESSAGE SIGN
- DIRECTION OF TRAVEL
- TEMPORARY BARRIER TYPE F
- TEMPORARY CONC. BARRIER TERMINAL
- **TYPE 2 BARRICADE WITH SIGN**



SECTION A-A

ADVANCED TEMPORARY SIGNAL-CONTROLLED ALTERNATING 1-LANE, 2-WAY TRAFFIC CONTROL

MP (7.54 - 7.70)

0 25 50
SCALE IN FEET

17. PROVIDE AT LEAST 4 FEET OF LATERAL CLEARANCE FROM THE TRAVEL LANE TO THE TEMP SIGNAL AND TEMPORARY LIGHTING. THESE DEVICES SHALL BE PLACED BEHIND TEMPORARY BARRIER OR TRAFFIC SAFETY DRUM. THE STRUCTURAL LOADING ON THE TEMPORARY SIGNAL MAST ARM SHALL BE VERIFIED TO BE SUFFICIENT. IF A GRAVEL LEVELING PAD IS NEEDED, CONTACT THE ENGINEER PRIOR TO INSTALLATION.
18. FULL CLOSURE OF THE EXISTING PEDESTRIAN PATH SHALL BE DONE DURING TRAFFIC CONTROL AS SHOWN ON PLAN. SHUTTLE BUS SERVICE SHALL BE PROVIDED TO ACCOMMODATE PEDESTRIANS DURING THE CLOSURE OF THE EXISTING PEDESTRIAN PATH.
19. TYPE 2 OR F-SHAPE TEMPORARY BARRIER PERMITTED, UNLESS SPECIFIED. SLOPED CONCRETE TERMINAL ALLOWED FOR REGULATORY WORK ZONE SPEED LIMITS 25 MPH OR LESS. F- SHAPE TEMPORARY BARRIER PER STANDARD PLAN C-60.10 (C-60.15 IF SCUPPERS USED FOR DRAINAGE) AND STANDARD PLAN C-60.80 FOR F-SHAPE CONCRETE BARRIER TERMINAL.
20. ADDITIONAL TEMPORARY BARRIERS SHALL BE PLACED ALONG THE TEMPORARY BYPASS, AS SHOWN ON THE PLAN, TO PREVENT TRAFFIC FROM ENTERING.
21. ALL CONFLICTING PAVEMENT MARKINGS SHALL BE REMOVED OR COVERED WITH BLACK TEMPORARY TAPE. THOSE WITHIN THE WORK ACCESS AREA MAY REMAIN AS SHOWN.
22. FOR PROJECT-SPECIFIC REQUIREMENTS, SEE SPECIAL PROVISIONS.

FILE NAME	T:\412334\XL6549 SR 544 Nooksack Overflow Repair_CAE\CAD\ContractPlans\XL6549_410_PS_TC.dgn			
TIME	8:27:08 PM			
DATE	9/24/2026			
PLOTTED BY	hardoug			
DESIGNED BY	D. HARRIS			
ENTERED BY	D. HARRIS			
CHECKED BY	E. WINTER			
PROJ. ENGR.	S. BEIER			
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER 26A012		
CONTRACT NO.		LOCATION NO.

P.E. STAMP BOX — DATE

P.E. STAMP BOX — DATE

Washington State Department of Transportation

SR 544
NOOKSACK RIVER OVERFLOW CULVERT ER PERMANENT REPAIR

TRAFFIC CONTROL PLAN

Plot 8

PLAN REF NO
TC8

SHEET 112 OF 119 SHEETS

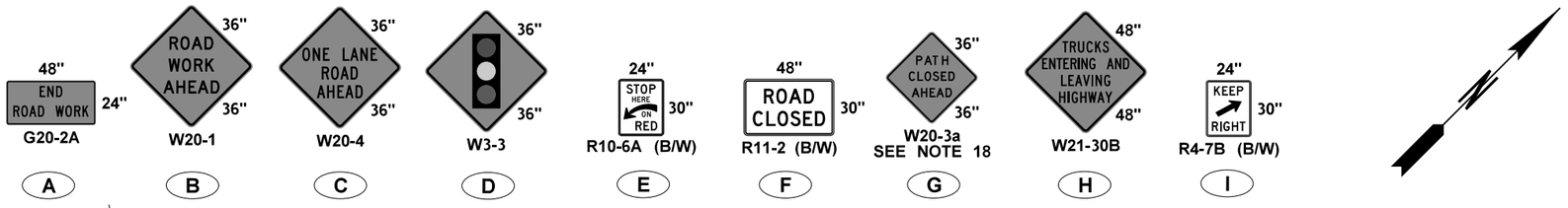
mPCMS	
1	2
TRAFFIC SIGNAL 1.5 MILES	ROADWAY NARROWS 12' WIDE
2.0 SEC	2.0 SEC

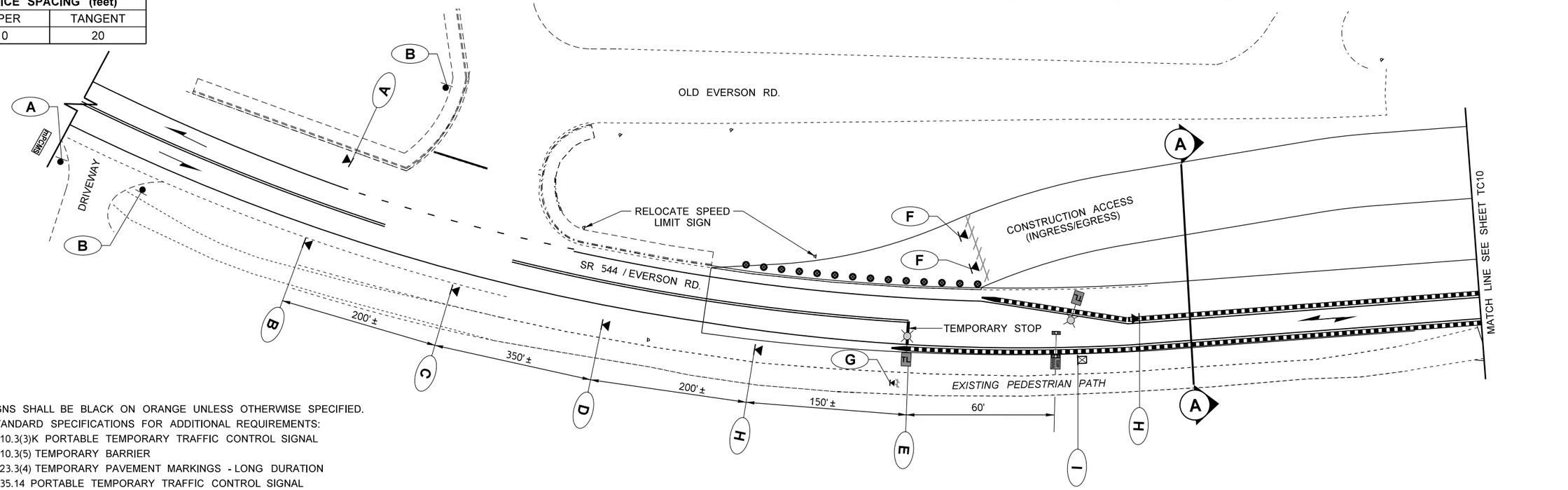
FIELD LOCATE 1/2 ± MILES PRIOR TO TEMP SIGNAL PER STD. SPEC. 1-10.3(3)C.

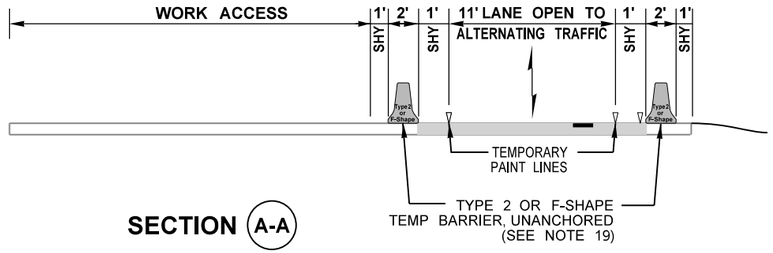
WAIT-TIME DISPLAY VMS		
GREEN	YELLOW	RED
15 MPH ZONE	(Blank)	WAIT #:##

#:## = MINUTES:SECONDS UNTIL GREEN. LOCATE VMS ON TEMP SIGNAL MAST ARM.

MAXIMUM CHANNELIZATION DEVICE SPACING (feet)	
TAPER	TANGENT
10	20







SECTION A-A

ADVANCED TEMPORARY SIGNAL-CONTROLLED ALTERNATING 1-LANE, 2-WAY TRAFFIC CONTROL MP (7.54 - 7.70)

0 25 50
SCALE IN FEET

NOTES:

1. ALL SIGNS SHALL BE BLACK ON ORANGE UNLESS OTHERWISE SPECIFIED.
6. SEE STANDARD SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS:
   - 1-10.3(3)K PORTABLE TEMPORARY TRAFFIC CONTROL SIGNAL
   - 6-10.3(5) TEMPORARY BARRIER
   - 8-23.3(4) TEMPORARY PAVEMENT MARKINGS - LONG DURATION
   - 9-35.14 PORTABLE TEMPORARY TRAFFIC CONTROL SIGNAL
8. REMOVE & COVER ALL CONFLICTING SIGNAGE PER STD SPEC. 2-04.3(6)A.
15. ALL TEMPORARY TRAFFIC SIGNAL TIMING PLANS MUST BE APPROVED BY THE ENGINEER. THE CONTRACTOR SHALL PROVIDE A DEFAULT SIGNAL TIMING PLAN DESIGNED FOR VEHICLES FOR APPROVAL.
16. TRAFFIC CONTROL MANAGER, TRAFFIC CONTROL SUPERVISOR (PRIMARY AND ALTERNATE), AND WSDOT ENGINEER SHALL BE NOTIFIED VIA EMAIL, TEXT, AND/OR PAGE IF ANY TEMPORARY SIGNAL MALFUNCTIONS.
17. PROVIDE AT LEAST 4 FEET OF LATERAL CLEARANCE FROM THE TRAVEL LANE TO THE TEMP SIGNAL AND TEMPORARY LIGHTING. THESE DEVICES SHALL BE PLACED BEHIND TEMPORARY BARRIER OR TRAFFIC SAFETY DRUM. THE STRUCTURAL LOADING ON THE TEMPORARY SIGNAL MAST ARM SHALL BE VERIFIED TO BE SUFFICIENT. IF A GRAVEL LEVELING PAD IS NEEDED, CONTACT THE ENGINEER PRIOR TO INSTALLATION.
18. FULL CLOSURE OF THE EXISTING PEDESTRIAN PATH SHALL BE DONE DURING TRAFFIC CONTROL AS SHOWN ON PLAN. SHUTTLE BUS SERVICE SHALL BE PROVIDED TO ACCOMMODATE PEDESTRIANS DURING THE CLOSURE OF THE EXISTING PEDESTRIAN PATH.
19. TYPE 2 OR F-SHAPE TEMPORARY BARRIER PERMITTED, UNLESS SPECIFIED. SLOPED CONCRETE TERMINAL ALLOWED FOR REGULATORY WORK ZONE SPEED LIMITS 25 MPH OR LESS. F- SHAPE TEMPORARY BARRIER PER STANDARD PLAN C-60.10 (C-60.15 IF SCUPPERS USED FOR DRAINAGE) AND STANDARD PLAN C-60.80 FOR F-SHAPE CONCRETE BARRIER TERMINAL.
20. ADDITIONAL TEMPORARY BARRIERS SHALL BE PLACED ALONG THE TEMPORARY BYPASS, AS SHOWN ON THE PLAN, TO PREVENT TRAFFIC FROM ENTERING.
21. ALL CONFLICTING PAVEMENT MARKINGS SHALL BE REMOVED OR COVERED WITH BLACK TEMPORARY TAPE. THOSE WITHIN THE WORK ACCESS AREA MAY REMAIN AS SHOWN.
22. FOR PROJECT-SPECIFIC REQUIREMENTS, SEE SPECIAL PROVISIONS.

LEGEND

- TEMP SIGNAL — TEMPORARY TRAFFIC SIGNAL
- mPCMS — mini PORTABLE CHANGEABLE MESSAGE SIGN
- TEMPORARY LIGHTING
- DIRECTION OF TRAVEL
- TEMPORARY SIGN LOCATION (1' MIN HEIGHT)
- TEMPORARY BARRIER
- CLASS A SIGN LOCATION
- TEMPORARY CONC. BARRIER TERMINAL
- CLASS A TRIPOD-MOUNTED SIGN LOCATION (5' MIN. HEIGHT)
- TYPE 2 BARRICADE WITH SIGN
- TRAFFIC SAFETY DRUM
- TYPE 3 BARRICADE WITH SIGN

FILE NAME	T:\412334\XL6549 SR 544 Nooksack Overflow Repair_CAE\CAD\ContractPlans\XL6549_410_PS_TC.dgn				REGION NO.	STATE	FED.AID PROJ.NO.
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DATE	9/24/2026				JOB NUMBER		
PLOTTED BY	hardoug				26A012		
DESIGNED BY	D. HARRIS				CONTRACT NO.		LOCATION NO.
ENTERED BY	D. HARRIS						
CHECKED BY	E. WINTER						
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 544
NOOKSACK RIVER OVERFLOW CULVERT ER PERMANENT REPAIR

TRAFFIC CONTROL PLAN

Plot 9

PLAN REF NO TC9

SHEET 113 OF 119 SHEETS

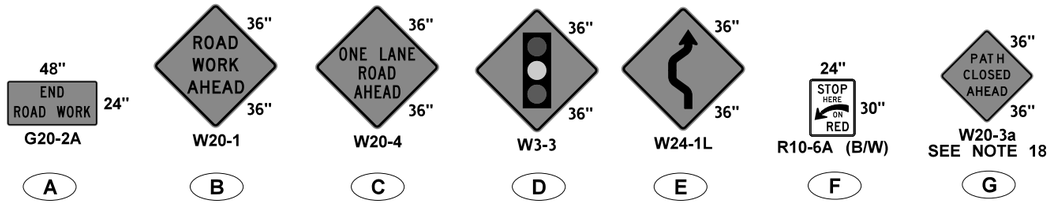
mPCMS	
1	2
TRAFFIC SIGNAL 1.5 MILES	ROADWAY NARROWS 10' WIDE
2.0 SEC	2.0 SEC

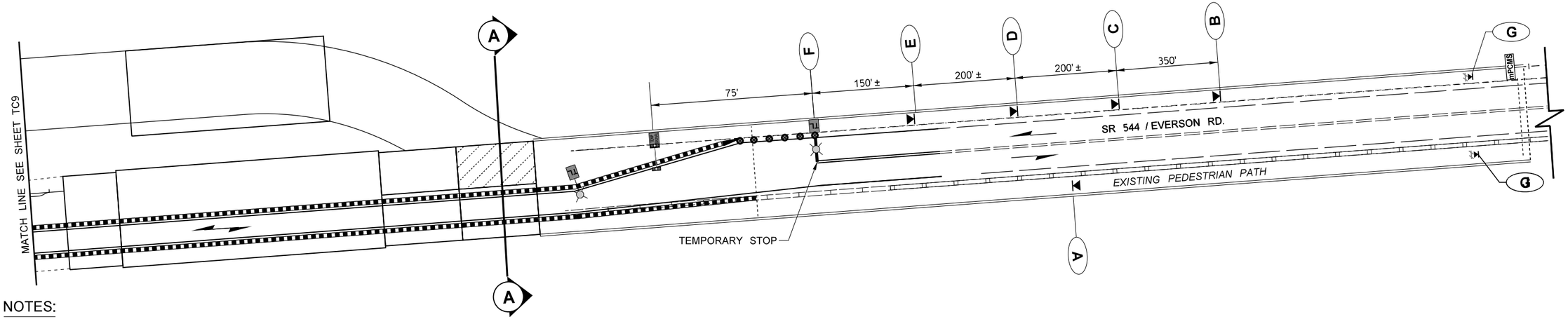
FIELD LOCATE 1/2 ± MILES PRIOR TO TEMP SIGNAL PER STD. SPEC. 1-10.3(3)C.

WAIT-TIME DISPLAY VMS		
GREEN	YELLOW	RED
15 MPH ZONE	(Blank)	WAIT #:##

#:## = MINUTES:SECONDS UNTIL GREEN.
LOCATE VMS ON TEMP SIGNAL MAST ARM.

MAXIMUM CHANNELIZATION DEVICE SPACING (feet)	
TAPER	TANGENT
10	20



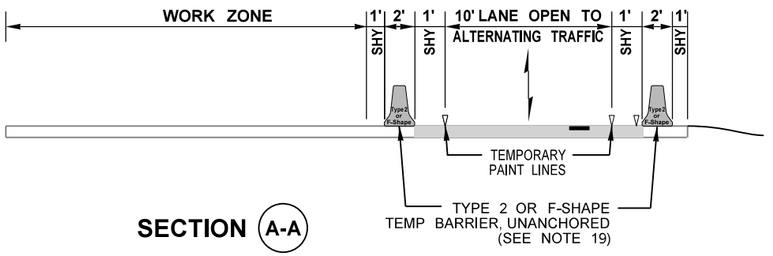


NOTES:

1. ALL SIGNS SHALL BE BLACK ON ORANGE UNLESS OTHERWISE SPECIFIED.
6. SEE STANDARD SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS:
   - 1-10.3(3)K PORTABLE TEMPORARY TRAFFIC CONTROL SIGNAL
   - 6-10.3(5) TEMPORARY BARRIER
   - 8-23.3(4) TEMPORARY PAVEMENT MARKINGS - LONG DURATION
   - 9-35.14 PORTABLE TEMPORARY TRAFFIC CONTROL SIGNAL
8. REMOVE & COVER ALL CONFLICTING SIGNAGE PER STD SPEC. 2-04.3(6)A.
15. ALL TEMPORARY TRAFFIC SIGNAL TIMING PLANS MUST BE APPROVED BY THE ENGINEER. THE CONTRACTOR SHALL PROVIDE A DEFAULT SIGNAL TIMING PLAN DESIGNED FOR VEHICLES FOR APPROVAL.
16. TRAFFIC CONTROL MANAGER, TRAFFIC CONTROL SUPERVISOR (PRIMARY AND ALTERNATE), AND WSDOT ENGINEER SHALL BE NOTIFIED VIA EMAIL, TEXT, AND/OR PAGE IF ANY TEMPORARY SIGNAL MALFUNCTIONS.

LEGEND

- TEMPORARY TRAFFIC SIGNAL
- TEMPORARY LIGHTING
- TEMPORARY SIGN LOCATION (1' MIN HEIGHT)
- WORK ZONE
- CLASS A TRIPOD-MOUNTED SIGN LOCATION (5' MIN. HEIGHT)
- TRAFFIC SAFETY DRUM
- mini PORTABLE CHANGEABLE MESSAGE SIGN
- DIRECTION OF TRAVEL
- TEMPORARY BARRIER
- TEMPORARY CONC. BARRIER TERMINAL
- **TYPE 2 BARRICADE WITH SIGN**



SECTION (A-A)

ADVANCED TEMPORARY SIGNAL-CONTROLLED ALTERNATING 1-LANE, 2-WAY TRAFFIC CONTROL

MP (7.54 - 7.70)

0 25 50
SCALE IN FEET

17. PROVIDE AT LEAST 4 FEET OF LATERAL CLEARANCE FROM THE TRAVEL LANE TO THE TEMP SIGNAL AND TEMPORARY LIGHTING. THESE DEVICES SHALL BE PLACED BEHIND TEMPORARY BARRIER OR TRAFFIC SAFETY DRUM. THE STRUCTURAL LOADING ON THE TEMPORARY SIGNAL MAST ARM SHALL BE VERIFIED TO BE SUFFICIENT. IF A GRAVEL LEVELING PAD IS NEEDED, CONTACT THE ENGINEER PRIOR TO INSTALLATION.
18. FULL CLOSURE OF THE EXISTING PEDESTRIAN PATH SHALL BE DONE DURING TRAFFIC CONTROL AS SHOWN ON PLAN. SHUTTLE BUS SERVICE SHALL BE PROVIDED TO ACCOMMODATE PEDESTRIANS DURING THE CLOSURE OF THE EXISTING PEDESTRIAN PATH.
19. TYPE 2 OR F-SHAPE TEMPORARY BARRIER PERMITTED, UNLESS SPECIFIED. SLOPED CONCRETE TERMINAL ALLOWED FOR REGULATORY WORK ZONE SPEED LIMITS 25 MPH OR LESS. F- SHAPE TEMPORARY BARRIER PER STANDARD PLAN C-60.10 (C-60.15 IF SCUPPERS USED FOR DRAINAGE) AND STANDARD PLAN C-60.80 FOR F-SHAPE CONCRETE BARRIER TERMINAL.
20. ADDITIONAL TEMPORARY BARRIERS SHALL BE PLACED ALONG THE TEMPORARY BYPASS, AS SHOWN ON THE PLAN, TO PREVENT TRAFFIC FROM ENTERING.
21. ALL CONFLICTING PAVEMENT MARKINGS SHALL BE REMOVED OR COVERED WITH BLACK TEMPORARY TAPE. THOSE WITHIN THE WORK ACCESS AREA MAY REMAIN AS SHOWN.
22. FOR PROJECT-SPECIFIC REQUIREMENTS, SEE SPECIAL PROVISIONS.

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TIME	8:27:20 PM				10	WASH	
DATE	9/24/2026				JOB NUMBER		
PLOTTED BY	hardoug				26A012		
DESIGNED BY	D. HARRIS				CONTRACT NO.		LOCATION NO.
ENTERED BY	D. HARRIS						
CHECKED BY	E. WINTER						
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 544
NOOKSACK RIVER OVERFLOW CULVERT ER PERMANENT REPAIR

TRAFFIC CONTROL PLAN

Plot 10

PLAN REF NO
TC10

SHEET 114 OF 119 SHEETS



W21-1701

A



W8-2001

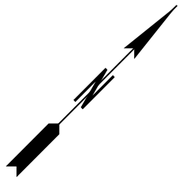
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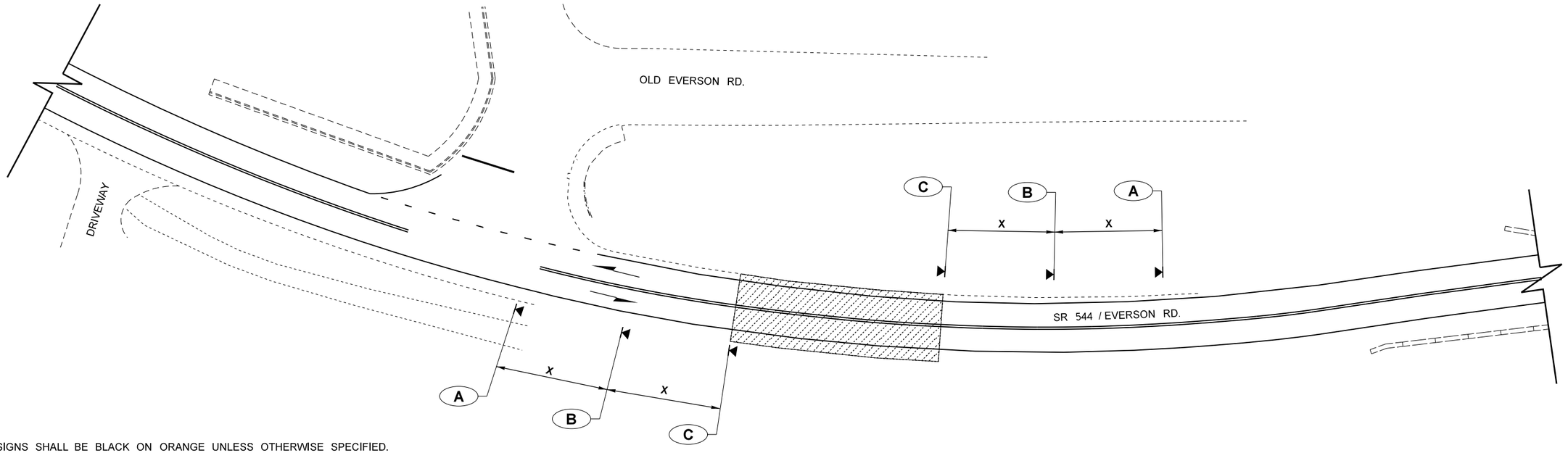


W8-1

C

MOTORCYCLE WARNING SIGNS





NOTES:

1. ALL SIGNS SHALL BE BLACK ON ORANGE UNLESS OTHERWISE SPECIFIED.
2. MOTORCYCLES USE EXTREME CAUTION SIGN (W21-1701) SHALL BE INSTALLED WHEN THE FOLLOWING ROADWAY CONDITIONS EXIST:
   A. GROOVED PAVEMENT (W8-2001)
   B. LOOSE GRAVEL (W8-7)

   MOTORCYCLE WARNING SIGN (W21-1701) AND SPECIFIC CONDITION SIGNS SHALL BE INSTALLED AT RECOMMENDED SIGN SPACING BEFORE THE HAZARD AND THROUGHOUT THE WORK ZONE. SIGNS SHALL BE REMOVED WHEN CONDITION NO LONGER EXISTS.
3. SIGN INSTALLATION AND LOCATION SHALL BE PER WSDOT STANDARD PLANS AND SPECIFICATIONS.

LEGEND

- TEMPORARY SIGN LOCATION (1' MIN HEIGHT)
- GROOVED PAVEMENT
- DIRECTION OF TRAVEL

TYPICAL MOTORCYCLE ADVISORY DETAIL

0 25 50
SCALE IN FEET

RECOMMENDED SIGN SPACING = X (1)		
RURAL ROADS & URBAN ARTERIALS	35-40 MPH	350'±
RURAL ROADS & URBAN ARTERIALS RESIDENT AL & 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.

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PLOTTED BY	hardoug				26A012		
DESIGNED BY	D. HARRIS				CONTRACT NO.		LOCATION NO.
ENTERED BY	D. HARRIS						
CHECKED BY	E. WINTER						
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

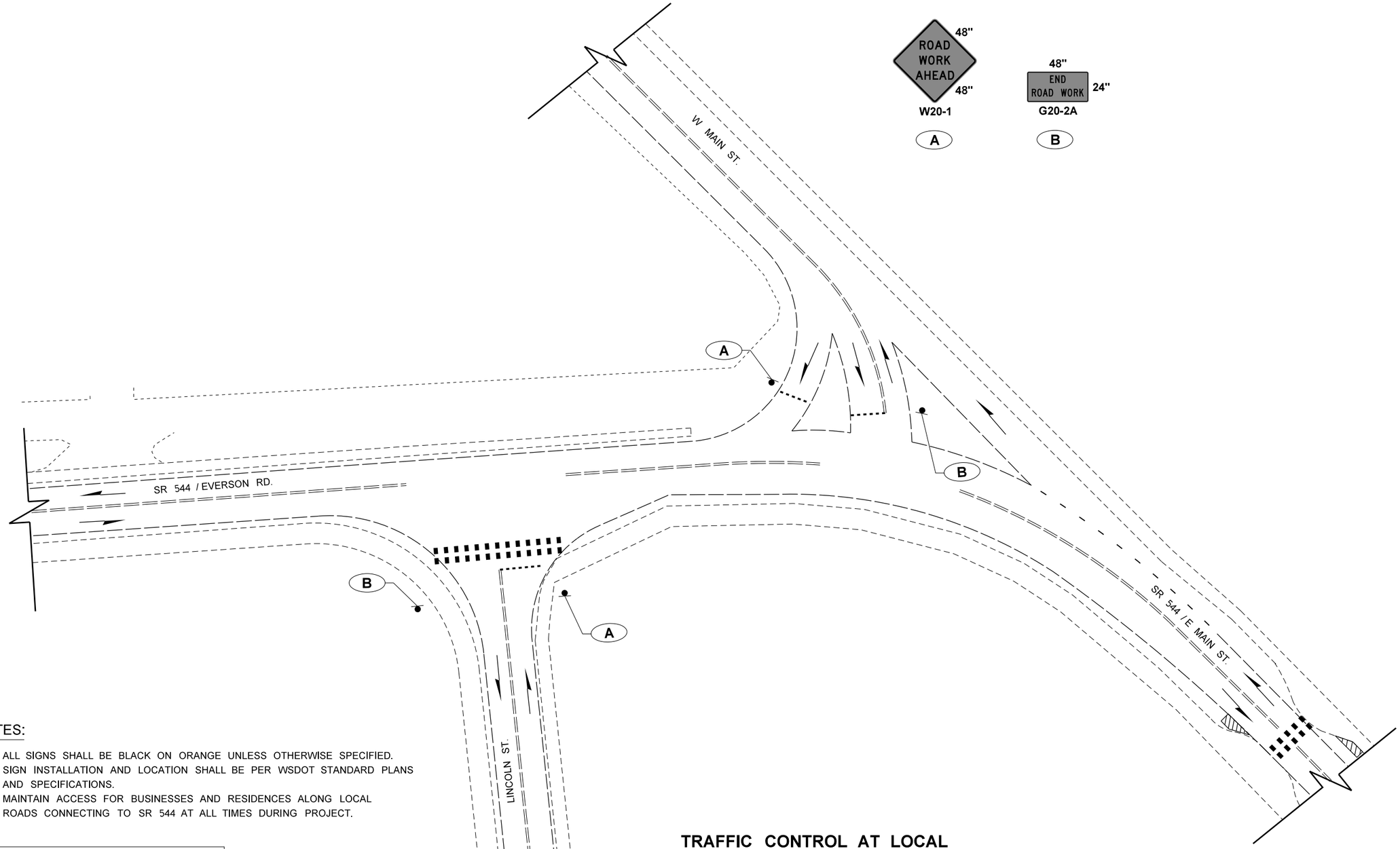
SR 544
NOOKSACK RIVER OVERFLOW CULVERT ER PERMANENT REPAIR

CONSTRUCTION SIGNING PLAN

Plot 11

PLAN REF NO
CS1

SHEET 115 OF 119 SHEETS



NOTES:

1. ALL SIGNS SHALL BE BLACK ON ORANGE UNLESS OTHERWISE SPECIFIED.
3. SIGN INSTALLATION AND LOCATION SHALL BE PER WSDOT STANDARD PLANS AND SPECIFICATIONS.
4. MAINTAIN ACCESS FOR BUSINESSES AND RESIDENCES ALONG LOCAL ROADS CONNECTING TO SR 544 AT ALL TIMES DURING PROJECT.

LEGEND

CLASS A SIGN LOCATION

DIRECTION OF TRAVEL

TRAFFIC CONTROL AT LOCAL ROAD INTERSECTIONS

0 25 50
SCALE IN FEET

FILE NAME	T:\412334\XL6549 SR 544 Nooksack Overflow Repair_CAE\CAD\ContractPlans\XL6549_410_PS_TC.dgn			
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PLOTTED BY	hardoug			
DESIGNED BY	D. HARRIS			
ENTERED BY	D. HARRIS			
CHECKED BY	E. WINTER			
PROJ. ENGR.	S. BEIER			
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER		
26A012		
CONTRACT NO.		LOCATION NO.

P.E. STAMP BOX — DATE

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Washington State Department of Transportation

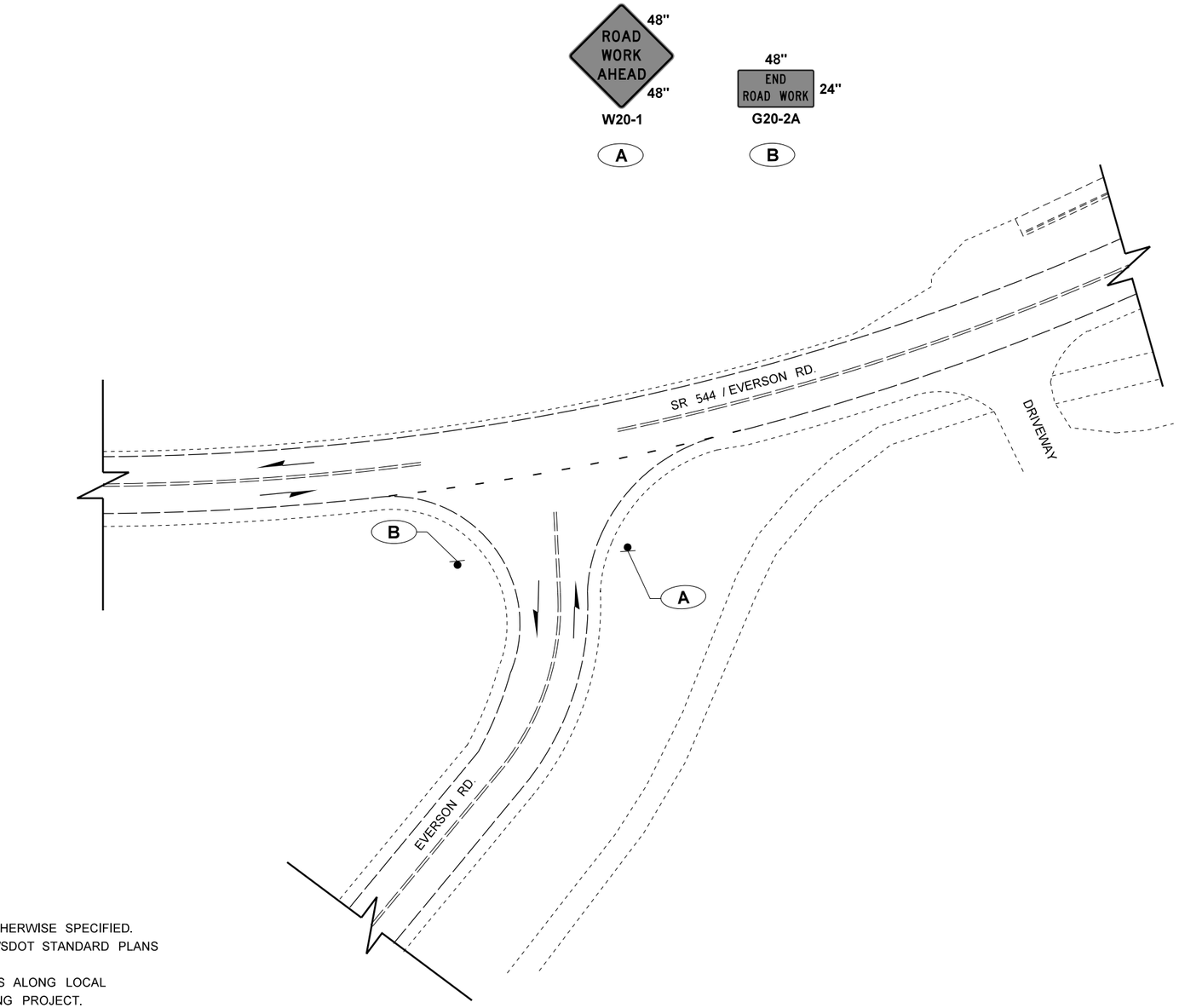
SR 544
NOOKSACK RIVER OVERFLOW CULVERT ER PERMANENT REPAIR

CONSTRUCTION SIGNING PLAN

Plot 12

PLAN REF NO
CS2

SHEET
116
OF
119
SHEETS



NOTES:

1. ALL SIGNS SHALL BE BLACK ON ORANGE UNLESS OTHERWISE SPECIFIED.
3. SIGN INSTALLATION AND LOCATION SHALL BE PER WSDOT STANDARD PLANS AND SPECIFICATIONS.
4. MAINTAIN ACCESS FOR BUSINESSES AND RESIDENCES ALONG LOCAL ROADS CONNECTING TO SR 544 AT ALL TIMES DURING PROJECT.

LEGEND

CLASS A SIGN LOCATION

DIRECTION OF TRAVEL

TRAFFIC CONTROL AT LOCAL ROAD INTERSECTIONS

0 25 50
SCALE IN FEET

FILE NAME	T:\412334\XL6549 SR 544 Nooksack Overflow Repair_CAE\CAD\ContractPlans\XL6549_410_PS_TC.dgn				REGION NO. / STATE	FED.AID PROJ.NO.	Washington State Department of Transportation
TIME	8:27:37 PM				10 WASH		SR 544 NOOKSACK RIVER OVERFLOW CULVERT ER PERMANENT REPAIR
DATE	9/24/2026				JOB NUMBER 26A012		CONSTRUCTION SIGNING PLAN
PLOTTED BY	hardoug				CONTRACT NO.	LOCATION NO.	
DESIGNED BY	D. HARRIS						
ENTERED BY	D. HARRIS						
CHECKED BY	E. WINTER						
PROJ. ENGR.	S. BEIER						
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY			

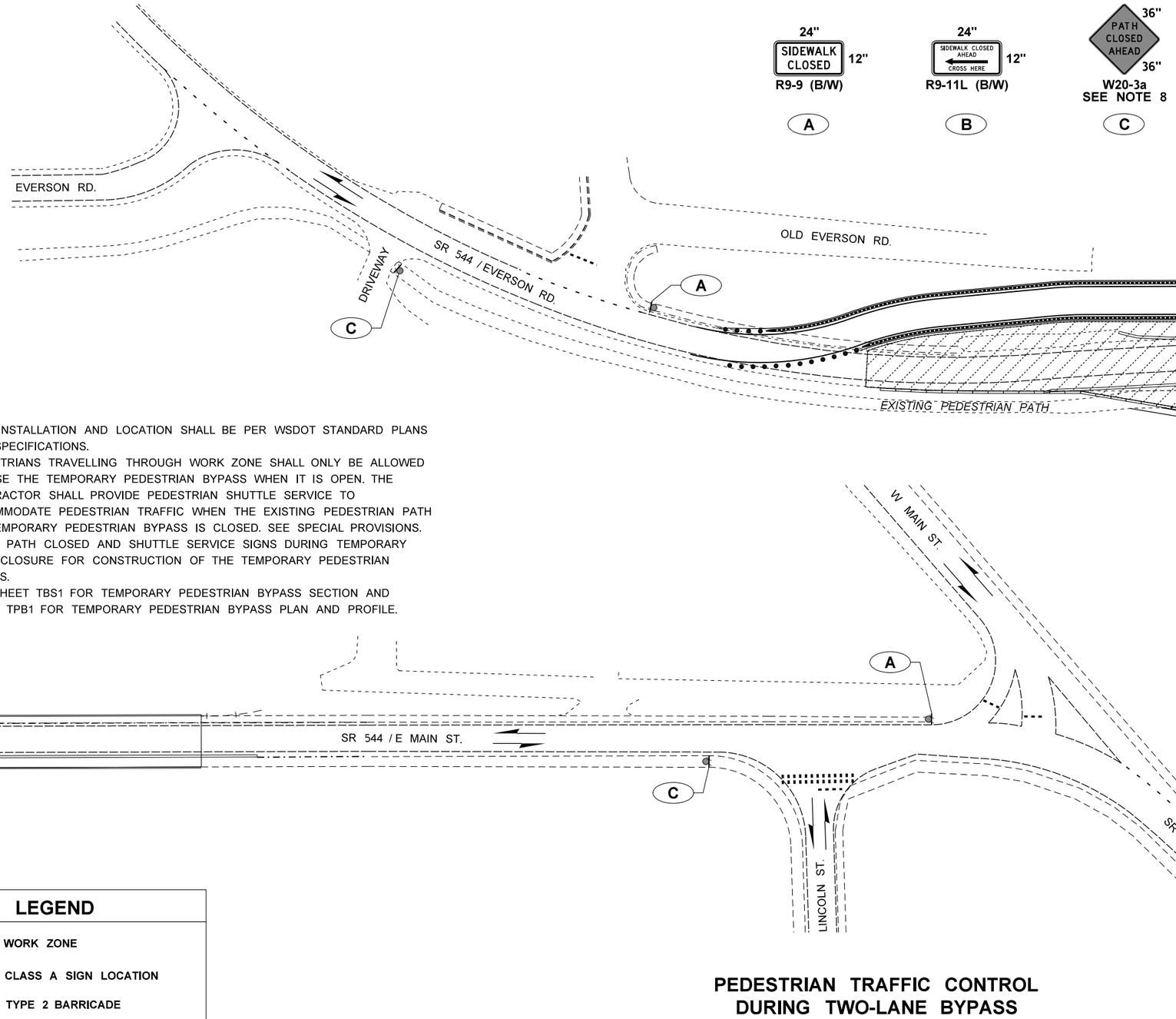
DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

Plot 13

PLAN REF NO
CS3

SHEET 117 OF 119 SHEETS



NOTES:

3. SIGN INSTALLATION AND LOCATION SHALL BE PER WSDOT STANDARD PLANS AND SPECIFICATIONS.
5. PEDESTRIANS TRAVELLING THROUGH WORK ZONE SHALL ONLY BE ALLOWED TO USE THE TEMPORARY PEDESTRIAN BYPASS WHEN IT IS OPEN. THE CONTRACTOR SHALL PROVIDE PEDESTRIAN SHUTTLE SERVICE TO ACCOMMODATE PEDESTRIAN TRAFFIC WHEN THE EXISTING PEDESTRIAN PATH OR TEMPORARY PEDESTRIAN BYPASS IS CLOSED. SEE SPECIAL PROVISIONS.
6. PLACE PATH CLOSED AND SHUTTLE SERVICE SIGNS DURING TEMPORARY PATH CLOSURE FOR CONSTRUCTION OF THE TEMPORARY PEDESTRIAN BYPASS.
7. SEE SHEET TBS1 FOR TEMPORARY PEDESTRIAN BYPASS SECTION AND SHEET TPB1 FOR TEMPORARY PEDESTRIAN BYPASS PLAN AND PROFILE.

LEGEND

- WORK ZONE
- CLASS A SIGN LOCATION
- TYPE 2 BARRICADE
- DIRECTION OF TRAVEL

PEDESTRIAN TRAFFIC CONTROL DURING TWO-LANE BYPASS

0 50 100
SCALE IN FEET

FILE NAME	T:\412334\XL6549 SR 544 Nooksack Overflow Repair_CAE\CAD\ContractPlans\XL6549_410_PS_TC.dgn				REGION NO. 10	STATE WASH	FED.AID PROJ.NO.
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DESIGNED BY	D. HARRIS				CONTRACT NO.		LOCATION NO.
ENTERED BY	D. HARRIS						
CHECKED BY	E. WINTER						
PROJ. ENGR.	S. BEIER						
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY			

P.E. STAMP BOX — DATE

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Washington State Department of Transportation

SR 544
NOOKSACK RIVER OVERFLOW CULVERT ER PERMANENT REPAIR

CONSTRUCTION SIGNING PLAN

Plot 16

PLAN REF NO CS4

SHEET 118 OF 119 SHEETS

PCMS MESSAGE	
PHASE 1	PHASE 2
NO THRU TRUCKS	DATE THRU DATE
1.5 SEC	1.5 SEC

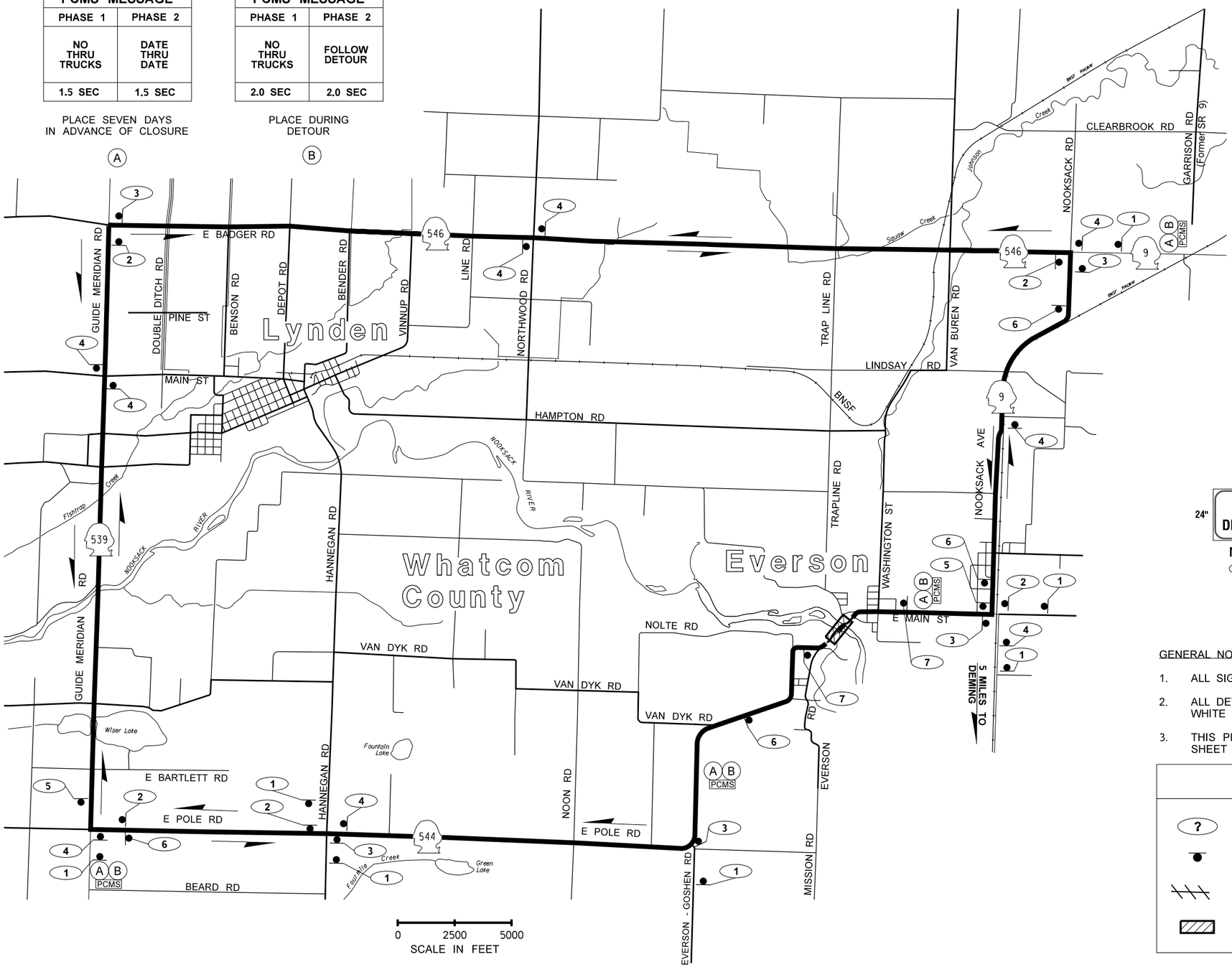
PLACE SEVEN DAYS IN ADVANCE OF CLOSURE

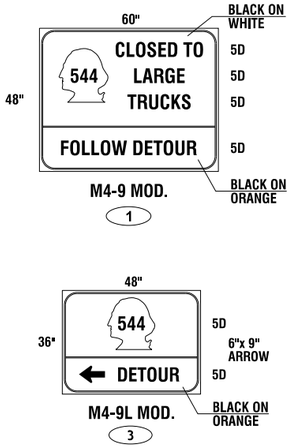
(A)

PCMS MESSAGE	
PHASE 1	PHASE 2
NO THRU TRUCKS	FOLLOW DETOUR
2.0 SEC	2.0 SEC

PLACE DURING DETOUR

(B)





GENERAL NOTES:

1. ALL SIGNS ARE CLASS "A" UNLESS OTHERWISE NOTED.
2. ALL DETOUR RELATED SIGNS TO BE BLACK ON ORANGE OR BLACK ON WHITE AS SHOWN.
3. THIS PLAN SHALL BE IMPLEMENTED DURING THE TEMPORARY BYPASS PHASE, SHEET TC3 - TC4, FOR DETOURING LARGE COMMERCIAL TRUCKS.

LEGEND

(?) SIGN CALLOUT	PCMS PORTABLE CHANGEABLE MESSAGE SIGN
CLASS A SIGN LOCATION	DETOUR ROUTE
TYPE 3 BARRICADE	DIRECTION OF TRAVEL
WORK AREA	

FILE NAME	T:\412334\XL6549 SR 544 Nooksack Overflow Repair_CAE\CAD\ContractPlans\XL6549_420_PS_DU.dgn
TIME	8:28:35 PM
DATE	9/24/2026
PLOTTED BY	hardoug
DESIGNED BY	D. HARRIS
ENTERED BY	D. HARRIS
CHECKED BY	E. WINTER
PROJ. ENGR.	S. BEIER
REGIONAL ADM.	B. NIELSEN

REVISION	DATE	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER		
26A012		
CONTRACT NO.		LOCATION NO.

P.E. STAMP BOX — DATE

P.E. STAMP BOX — DATE

Washington State Department of Transportation

SR 544
NOOKSACK RIVER OVERFLOW CULVERT ER PERMANENT REPAIR

DETOUR PLAN

Plot 1

PLAN REF NO **DU1**

SHEET 119 OF 119 SHEETS