

WALLA WALLA COUNTY PUBLIC WORKS DEPARTMENT



WALLULA AVENUE BRIDGE REPLACEMENT PROJECT

CRP 22-03

BRS-L360(001)

TA-7561

Commisioners

District 1

Bertha J. Clayton

District 2

Todd L. Kimball

District 3

Gunner Fulmer



990 NAVION LN
WALLA WALLA, WA 99362

(509) 524-2710



DAVID EVANS
AND ASSOCIATES INC.

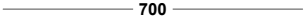
CALL 2 BUSINESS DAYS
BEFORE YOU DIG
(EXCLUDING WEEKENDS & HOLIDAYS)

1-800-424-5555

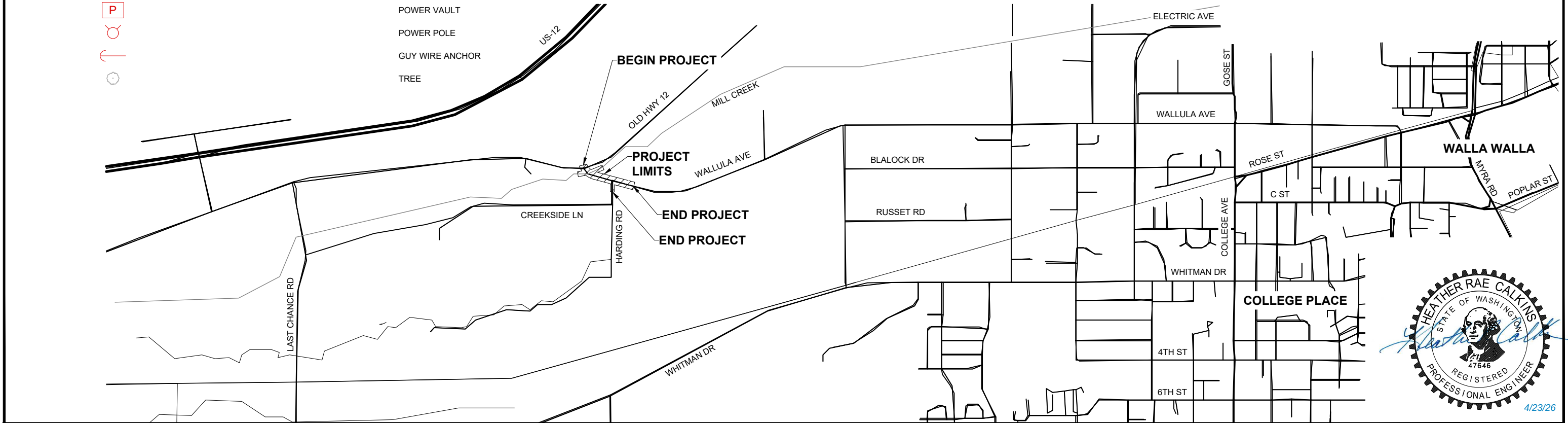
THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED AS ACCURATELY AS POSSIBLE FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. WALLA WALLA COUNTY MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN-SERVICE OR ABANDONED. FURTHER, WE DO NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN EXACT LOCATION INDICATED, ALTHOUGH WE DO CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE.

- GENERAL CONSTRUCTION NOTES:
- ALL EXISTING COUNTY SIGNS SHALL BE REMOVED AND SALVAGED FOR COUNTY.
 - ALL MAILBOXES SHALL REMAIN ACCESSIBLE AT ALL TIMES.
 - ALL ADDRESS POSTS SHALL REMAIN VISIBLE TO TRAFFIC AT ALL TIMES.
 - FOR CLARIFICATION PURPOSES, VARIOUS TREES ARE SHOWN IN THE PLANS FOR REMOVAL. ANY ADDITIONAL TREES, SHRUBS, AND/OR STUMPS WITHIN THE COUNTY RIGHT-OF-WAY, AND THE PROJECT LIMITS, THAT WILL OBSTRUCT THE PROPOSED CUT, FILL, AND CLEAR ZONE AREAS SHALL BE REMOVED AS DIRECTED BY THE ENGINEER OR COUNTY REPRESENTATIVE.
 - VERTICAL DATUM - NAVD88
HORIZONTAL DATUM - FEMA FIRM 5301940440B DATUM NGVD29 = NAVD88 - 3.27

LEGEND

EXISTING	PROPOSED	EXISTING	PROPOSED	
				MAJOR CONTOUR
				MINOR CONTOUR
				CUT CATCH LINE
				FILL CATCH LINE
				HINGE POINT
				SWALE BOTTOM
				DITCH BOTTOM
				RIGHT OF WAY
				EASEMENT
				SURVEY MONUMENT (TO BE SET BY COUNTY)
				MAILBOX
				
				
				
				
				
				

UNDERGROUND POWER LINE
OVERHEAD POWER LINE
UNDERGROUND TELEPHONE LINE
OVERHEAD TELEPHONE LINE
UNDERGROUND FIBER OPTIC LINE
OVERHEAD FIBER OPTIC LINE
STORM SEWER
FENCE
GATE
ORDINARY HIGH WATER (OHW)
GUARDRAIL
TELEPHONE JUNCTION BOX
POWER VAULT
POWER POLE
GUY WIRE ANCHOR
TREE



P:\WALL00PW0001\0400CAD\SHEETS\WALL00PW0001_SHEET_VICINITY MAP.dwg					REGION NO.	STATE	FEDERAL AID PROJECT NO.
DRAWN: AWRA					10	WASH	BRS-L360(001) TA-7561
DESIGNER: LXHE							
CHECKED: HRC							
PROJ. ENG.: HRC					JOB NUMBER		
APPROVED BY:					22-03		
4/22/2026	REV DATE	REVISION	BY	APP'D			



Walla Walla County
PUBLIC WORKS DEPARTMENT



WALLULA AVENUE BRIDGE

VICINITY MAP

SHEET
1
1 OF 47

SUMMARY OF QUANTITIES

NO.	QUANTITY	UNIT	ITEM
PREPARATION			
1	1	LS	MOBILIZATION
2	0.49	ACRE	CLEARING AND GRUBBING
3	1	EST	ARCHAEOLOGICAL AND HISTORICAL SALVAGE
4	1	LS	REMOVAL OF STRUCTURES AND OBSTRUCTIONS
5	1	LS	REMOVING EXISTING BRIDGE
GRADING			
6	930	CY	ROADWAY EXCAVATION INCL. HAUL
7	500	CY	UNSUITABLE FOUNDATION EXCAVATION, INCL. HAUL
8	2550	CY	SELECT BORROW INCL. HAUL
9	2970	CY	EMBANKMENT COMPACTION
DRAINAGE			
10	150	CY	STREAMBED COBBLES 12 IN.
11	60	EACH	STREAMBED BOULDER TYPE THREE
12	1350	CY	ROCK FOR EROSION AND SCOUR PROTECTION CLASS B
13	6700	CY	CHANNEL EXCAVATION INCL. HAUL
14	7.6	CY	QUARRY SPALLS
15	550	CY	STREAMBED SEDIMENT
16	68	LF	PLAIN STEEL CULV. PIPE 0.064 IN. TH. 18IN. DIAM
17	1	LS	TEMPORARY STREAM DIVERSION
18	200	CY	STREAMBED BOULDER TYPE ONE
19	300	CY	STREAMBED SAND
STORM SEWER			
20	2	EACH	CATCH BASIN TYPE 1L
21	122	LF	SOLID WALL PVC STORM SEWER PIPE 12 IN. DIAM.
STRUCTURE			
22	164	CY	STRUCTURE EXCAVATION CLASS A INCL. HAUL
23	1	LS	SHORING OR EXTRA EXCAVATION CL. A
24	110	CY	GRAVEL BACKFILL FOR WALLS
25	455	LF	FURNISHING ST. PILING
26	14	EACH	DRIVING ST. PILE
27	1	LS	SUPERSTRUCTURE
28	351	LF	TRAFFIC BARRIER
29	450	SY	WATERPROOF MEMBRANE BR. NO.
30	190	SY	BRIDGE APPROACH SLAB
31	64	LF	PAVED PANEL JOINT SEAL
32	14	EACH	FURNISHING STEEL PILE TIP OR SHOE
33	110	LF	SUPERSTRUCTURE - UTILITY SLEEVE
34	13825	LB	ST. REINF. BAR - SUBSTRUCTURE
35	99	CY	CONC. CLASS 4000 FOR SUBSTRUCTURE
SURFACING			
36	1400	CY	CRUSHED SURFACING BASE COURSE
HOT MIX ASPHALT			
37	645	TON	HMA CL 1/2" PG 64H-28

NO.	QUANTITY	UNIT	ITEM
EROSION CONTROL AND ROADSIDE PLANTING			
38	1320	LF	SILT FENCE
39	1.2	ACRE	TOPSOIL TYPE B
40	5600	SY	SEEDING, FERTILIZING, AND MULCHING
41	200	SY	SEEDING AND MULCHING
42	2	EACH	INLET PROTECTION
43	125	LF	WATTLE
44	1100	SY	FINE COMPOST
45	1	EST	EROSION/WATER POLLUTION CONTROL
46	710	EACH	PSIPE NO. 1 CONTAINERS
47	475	EACH	PSIPE NO. 2 CONTAINERS
48	360	EACH	LIVE POLE
49	1300	SY	BIODEGRADABLE EROSION CONTROL BLANKET
50	30	EACH	1.5' DBH, 15' LONG LWM WITH ROOTWAD
51	30	EACH	1' DBH, 15' LONG LWM WITH ROOTWAD
TRAFFIC			
52	32	LF	CEMENT CONC. TRAFFIC CURB AND GUTTER
53	5	EACH	BEAM GUARDRAIL TYPE 31 NON-FLARED TERMINAL
54	230	LF	EXTRUDED CURB TYPE 4
55	75	LF	BEAM GUARDRAIL TYPE 31
56	4	EACH	BEAM GUARDRAIL TRANSITION SECTION TYPE 21
57	3860	LF	PAINT LINE
58	30	LF	PAINTED WIDE LINE
59	21	EACH	FLEXIBLE GUIDE POST
60	73	LF	PAINTED STOP LINE
61	1	LS	PERMANENT SIGNING
62	1	LS	PROJECT TEMPORARY TRAFFIC CONTROL
63	21	DAY	PORTABLE CHANGEABLE MESSAGE SIGN
OTHER ITEMS			
64	1	LS	STRUCTURE SURVEYING
65	1	LS	ROADWAY SURVEYING
66	166	LF	WIRE FENCE TYPE 1
67	4270	SY	CONSTRUCTION GEOTEXTILE FOR SEPARATION
68	2500	SY	CONSTRUCTION GEOTEXTILE FOR PERMANENT EROSION CONTROL
69	2	EACH	MAILBOX SUPPORT TYPE 2
70	1	CALC	MINOR CHANGE
71	1	LS	SPCC PLAN



4/23/26

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DRAWN: AWRA					
DESIGNER: LXHE					
CHECKED: HRC					
PROJ. ENG.: HRC					
APPROVED BY:					
4/22/2026	REV DATE	REVISION	BY	APP'D	

REGION NO.	STATE
10	WASH
JOB NUMBER	
22-03	

FEDERAL AID PROJECT NO.
BRS-L360(001) TA-7561



Walla Walla County
PUBLIC WORKS DEPARTMENT

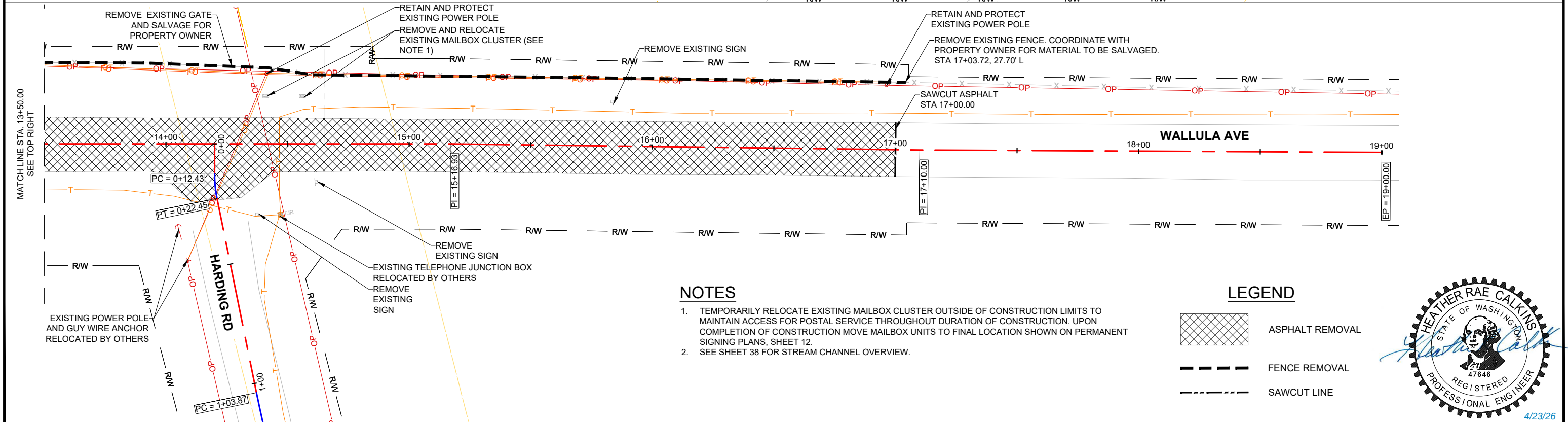
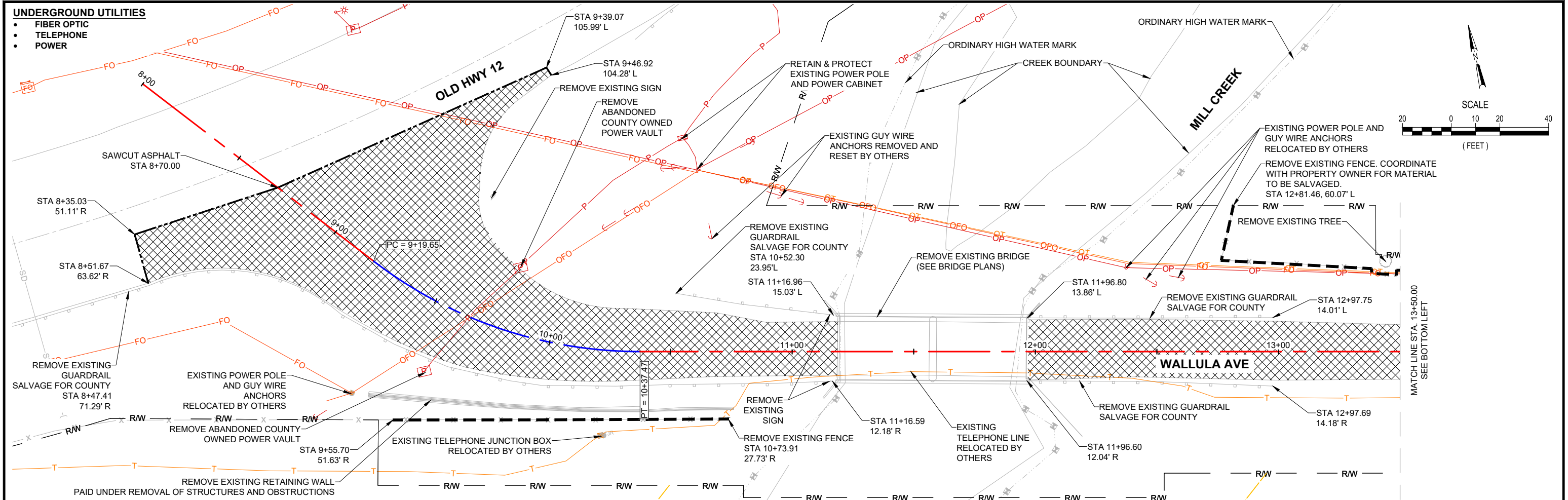
4/22/2026
PLOT DATE

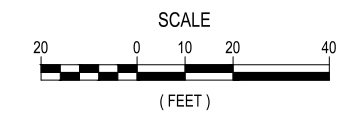
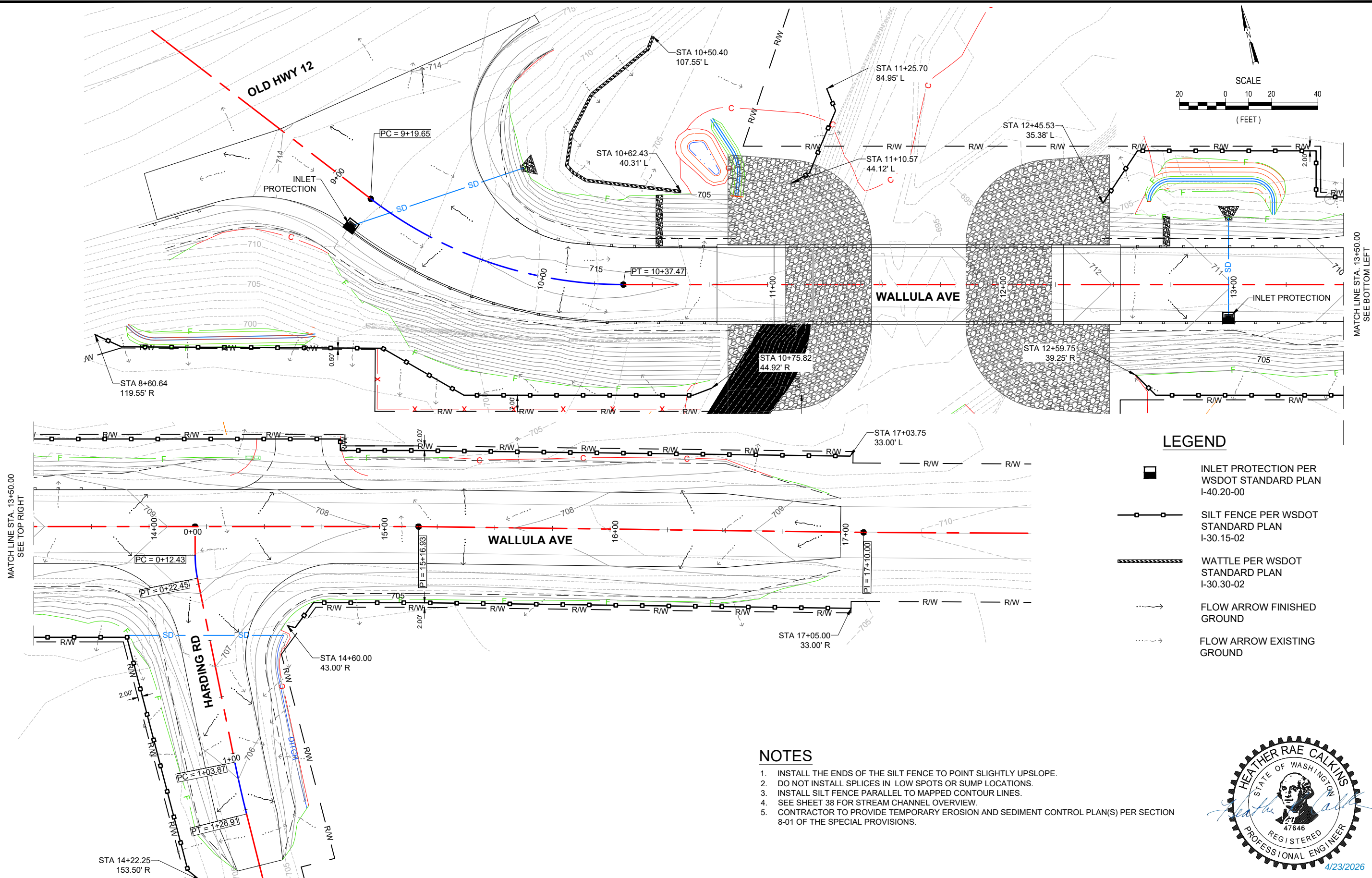


WALLULA AVENUE BRIDGE

SUMMARY OF QUANTITIES

SHEET
2
2 OF 47



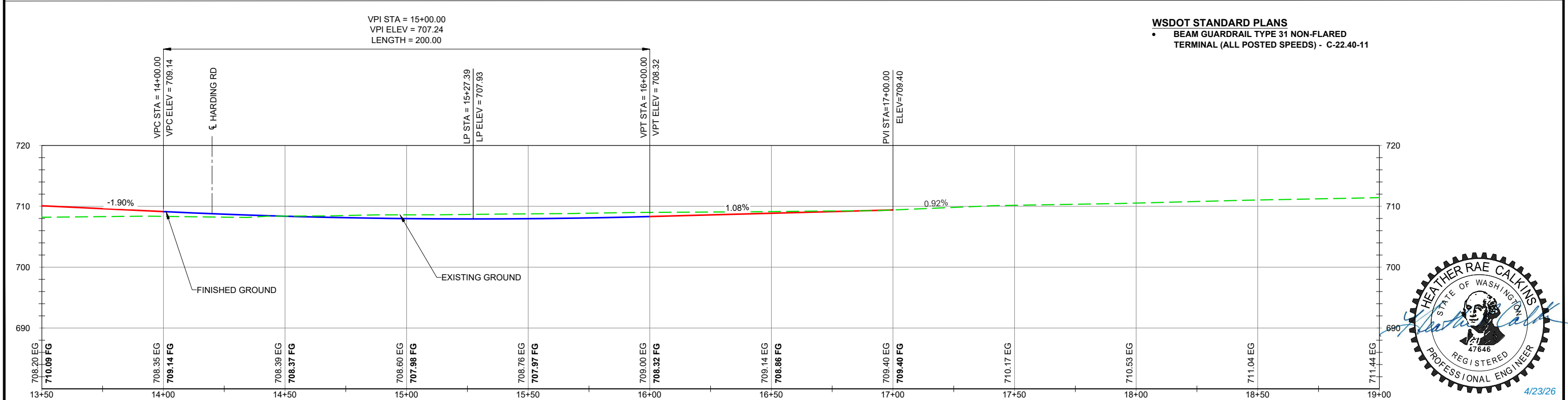
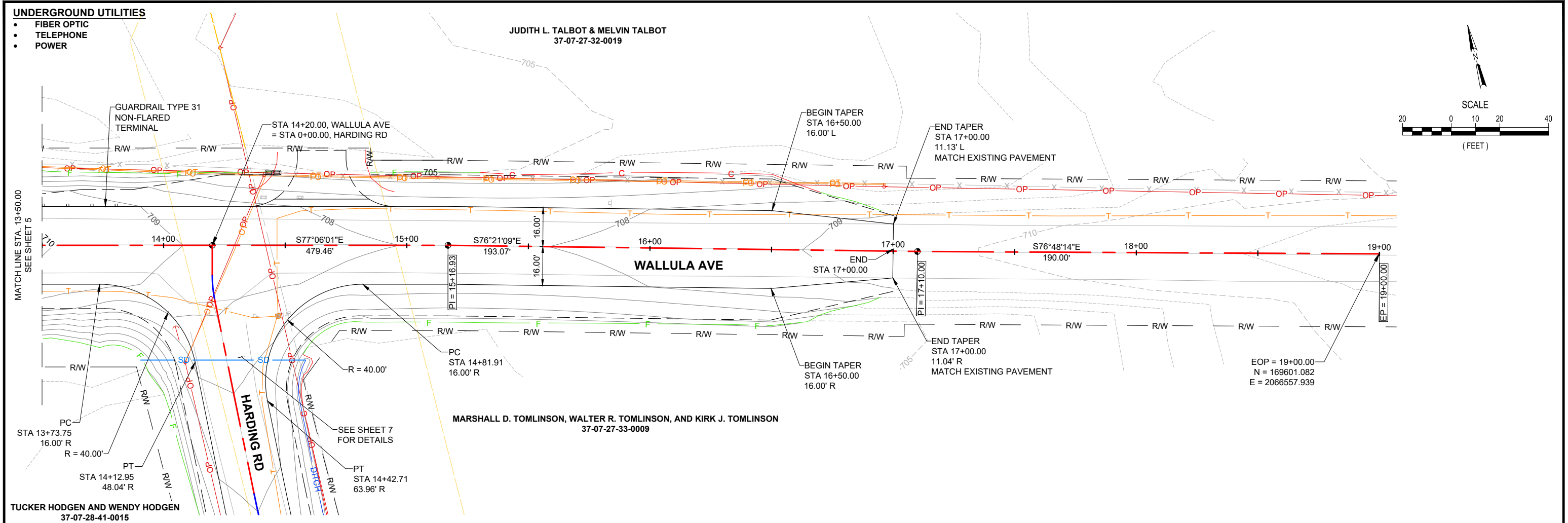


- LEGEND**
- INLET PROTECTION PER WSDOT STANDARD PLAN I-40.20-00
 - SILT FENCE PER WSDOT STANDARD PLAN I-30.15-02
 - WATTLE PER WSDOT STANDARD PLAN I-30.30-02
 - FLOW ARROW FINISHED GROUND
 - FLOW ARROW EXISTING GROUND

- NOTES**
1. INSTALL THE ENDS OF THE SILT FENCE TO POINT SLIGHTLY UPSLOPE.
 2. DO NOT INSTALL SPLICES IN LOW SPOTS OR SUMP LOCATIONS.
 3. INSTALL SILT FENCE PARALLEL TO MAPPED CONTOUR LINES.
 4. SEE SHEET 38 FOR STREAM CHANNEL OVERVIEW.
 5. CONTRACTOR TO PROVIDE TEMPORARY EROSION AND SEDIMENT CONTROL PLAN(S) PER SECTION 8-01 OF THE SPECIAL PROVISIONS.

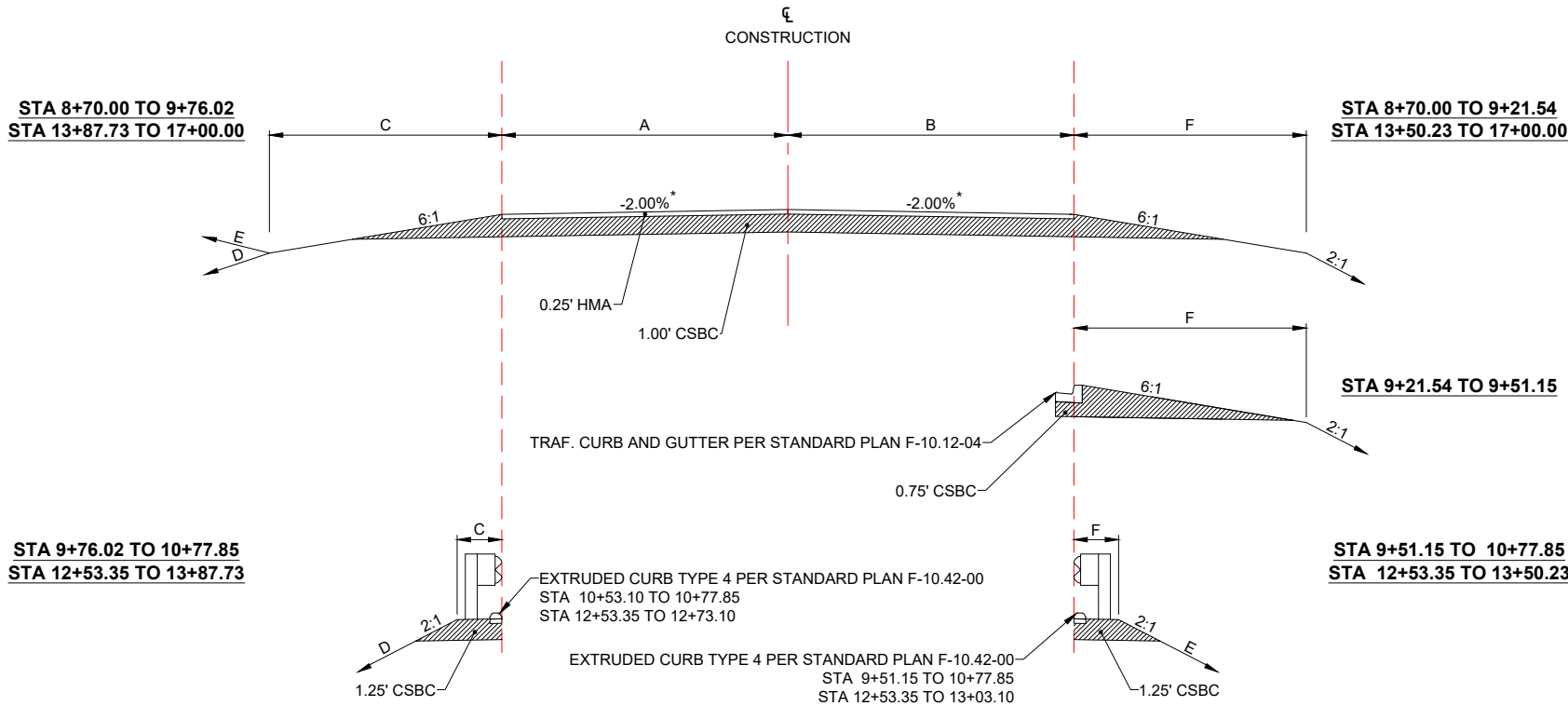


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DRAWN: AWRA		10	WASH	BRS-L360(001) TA-7561							
DESIGNER: LXHE		JOB NUMBER									
CHECKED: HRC		22-03									
PROJ. ENG.: HRC											
APPROVED BY:											
9/25/2025	REV DATE	REVISION	BY	APP'D							



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4/22/2026	REV DATE	REVISION	BY	APP'D							PLAN and PROFILE - WALLULA AVENUE			

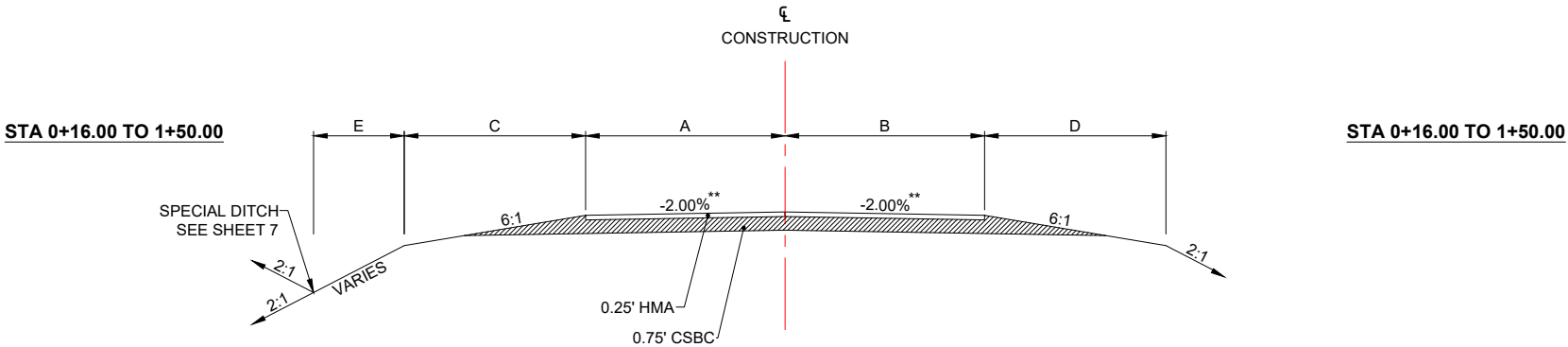
WALLULA AVE



WALLULA AVE
TYPICAL ROAD SECTION

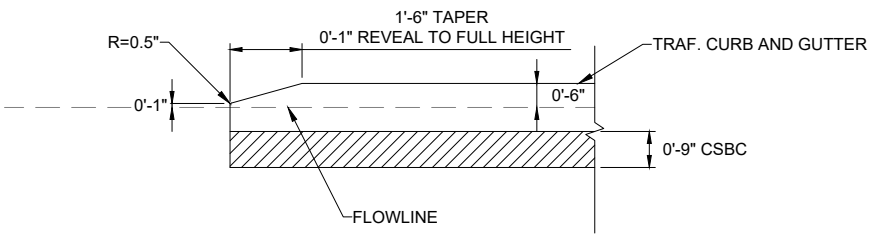
- A: VARIES FROM 121.00' TO 16.00' FROM STA 8+70.00 TO STA 10+37.60
16.00' FROM STA 10+37.60 TO STA 10+77.85
SEE BRIDGE PLANS FROM STA 10+77.85 TO 12+53.35
16.00' FROM STA 12+53.35 TO STA 16+50.00
VARIES FROM 16.00' TO 11.13' FROM STA 16+50.00 TO STA 17+00.00
- B: VARIES FROM 66.00' TO 16.00' FROM STA 8+70.00 TO STA 9+19.65
16.00' FROM STA 9+19.65 TO STA 10+77.85
SEE BRIDGE PLANS FROM STA 10+77.85 TO 12+53.35
16.00' FROM STA 12+53.35 TO STA 13+73.75
HARDING RD INTERSECTION FROM STA 13+73.75 TO STA 14+81.91
16.00' FROM STA 14+81.91 TO STA 16+50.00
VARIES FROM 16.00' TO 11.04' FROM STA 16+50.00 TO STA 17+00.00
- C: 13.00' FROM STA 8+70.00 TO STA 9+57.88
VARIES FROM 13.00' TO 7.00' FROM STA 9+57.88 TO STA 9+79.04
7.00' FROM STA 9+79.04 TO STA 9+99.16
VARIES FROM 7.00' TO 4.00' FROM STA 9+99.16 TO STA 10+50.34
4.00' FROM STA 10+50.34 TO STA 10+77.85
SEE BRIDGE PLANS FROM STA 10+77.85 TO 12+53.35
4.00' FROM STA 12+53.35 TO STA 13+38.73
VARIES FROM 4.00' TO 7.00' FROM STA 13+38.73 TO STA 13+66.73
7.00' FROM STA 13+66.73 TO STA 13+87.73
VARIES FROM 7.00' TO 13.00' FROM STA 13+87.73 TO STA 14+23.73
13.00' FROM STA 14+23.73 TO STA 17+00.00
- D: 2:1 FROM STA 8+70.00 TO STA 10+77.85
SEE BRIDGE PLANS FROM STA 10+77.85 TO 12+53.35
2:1 FROM STA 12+53.35 TO STA 17+00.00
- E: 2:1 FROM STA 8+70.00 TO STA 10+77.85
SEE BRIDGE PLANS FROM STA 10+77.85 TO 12+53.35
2:1 FROM STA 12+53.35 TO STA 17+00.00
- F: 13.00' FROM STA 8+70.00 TO STA 9+40.20
VARIES FROM 13.00' TO 7.00' FROM STA 9+40.20 TO STA 9+62.62
7.00' FROM STA 9+62.62 TO STA 9+81.27
VARIES FROM 7.00' TO 4.00' FROM STA 9+81.27 TO STA 10+07.74
4.00' FROM STA 10+07.74 TO STA 10+77.85
SEE BRIDGE PLANS FROM STA 10+77.85 TO 12+53.35
4.00' FROM STA 12+53.35 TO STA 13+03.35
VARIES FROM 4.00' TO 10.00' FROM STA 13+03.35 TO STA 13+29.23
10.00' FROM STA 13+29.23 TO STA 13+73.75
HARDING RD INTERSECTION FROM STA 13+73.75 TO STA 14+81.91
13.00' FROM STA 14+81.91 TO STA 17+00.00
- * TRANSITION FROM MATCHING EXISTING CROSS SLOPE AT OLD HWY 12 STA 8+70.00 TO BEGIN NORMAL CROWN STA 10+14.54

HARDING RD

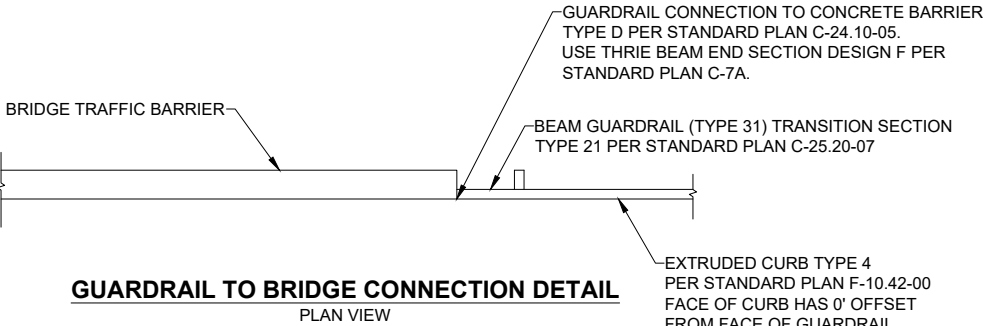


HARDING RD
TYPICAL ROAD SECTION

- A: VARIES FROM 60.00' TO 13.00' FROM STA 0+16.00 TO STA 0+67.52
13.00' FROM STA 0+67.52 TO STA 1+30.00
VARIES FROM 13.00' TO 10.36' FROM STA 1+30.00 TO STA 1+50.00
- B: VARIES FROM 45.00' TO 13.00' FROM STA 0+16.00 TO STA 0+45.99
13.00' FROM STA 0+45.99 TO STA 1+30.00
VARIES FROM 13.00' TO 9.84' FROM STA 1+30.00 TO STA 1+50.00
- C: VARIES FROM 13.00' TO 8.00' FROM STA 0+16.00 TO STA 0+67.52
8.00' FROM STA 0+67.52 TO STA 1+50.00
- D: VARIES FROM 10.00' TO 8.00' FROM STA 0+16.00 TO STA 0+45.99
8.00' FROM STA 0+45.99 TO STA 1+50.00
- E: 0' FROM STA 0+16.00 TO STA 0+54.20
5.00' FROM STA 0+54.20 TO STA 1+30.86
- ** TRANSITION FROM WALLULA AVE FINISHED GROUND STA 0+16.00 TO BEGIN NORMAL CROWN STA 0+67.52



CURB TERMINATION DETAIL
ELEVATION VIEW



GUARDRAIL TO BRIDGE CONNECTION DETAIL
PLAN VIEW



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DRAWN: AWRA					
DESIGNER: LXHE					
CHECKED: HRC					
PROJ. ENG.: HRC					
APPROVED BY:					
9/8/2025	REV DATE	REVISION	BY	APP'D	

REGION NO.	STATE
10	WASH
JOB NUMBER	
22-03	

FEDERAL AID PROJECT NO.

BRS-L360(001)
TA-7561



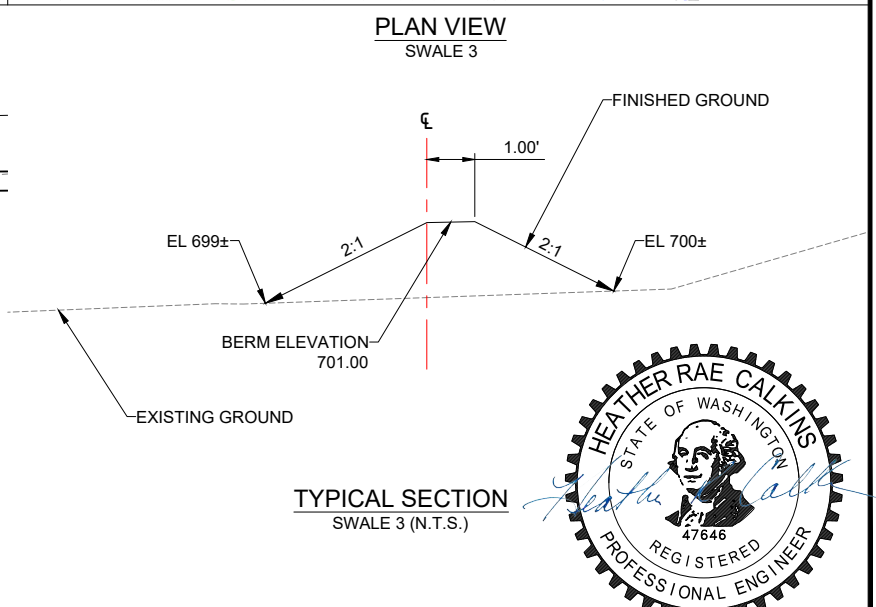
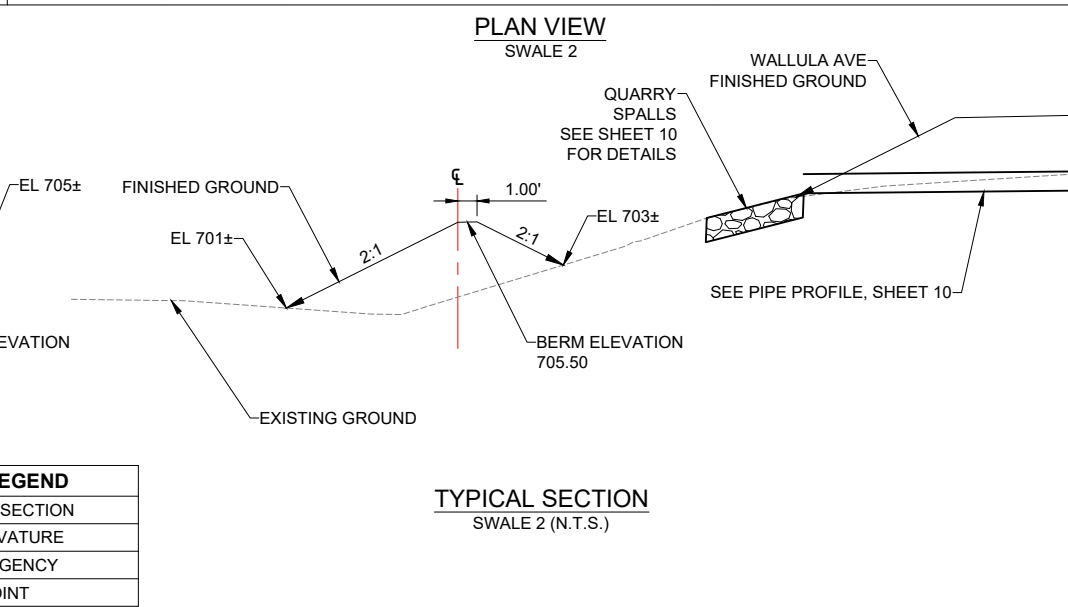
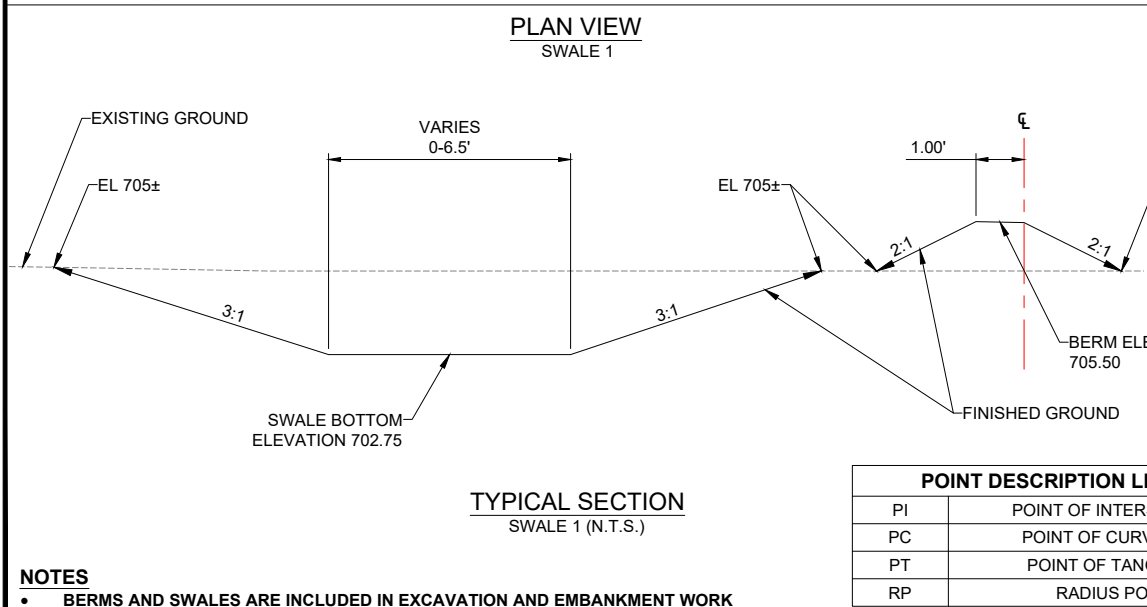
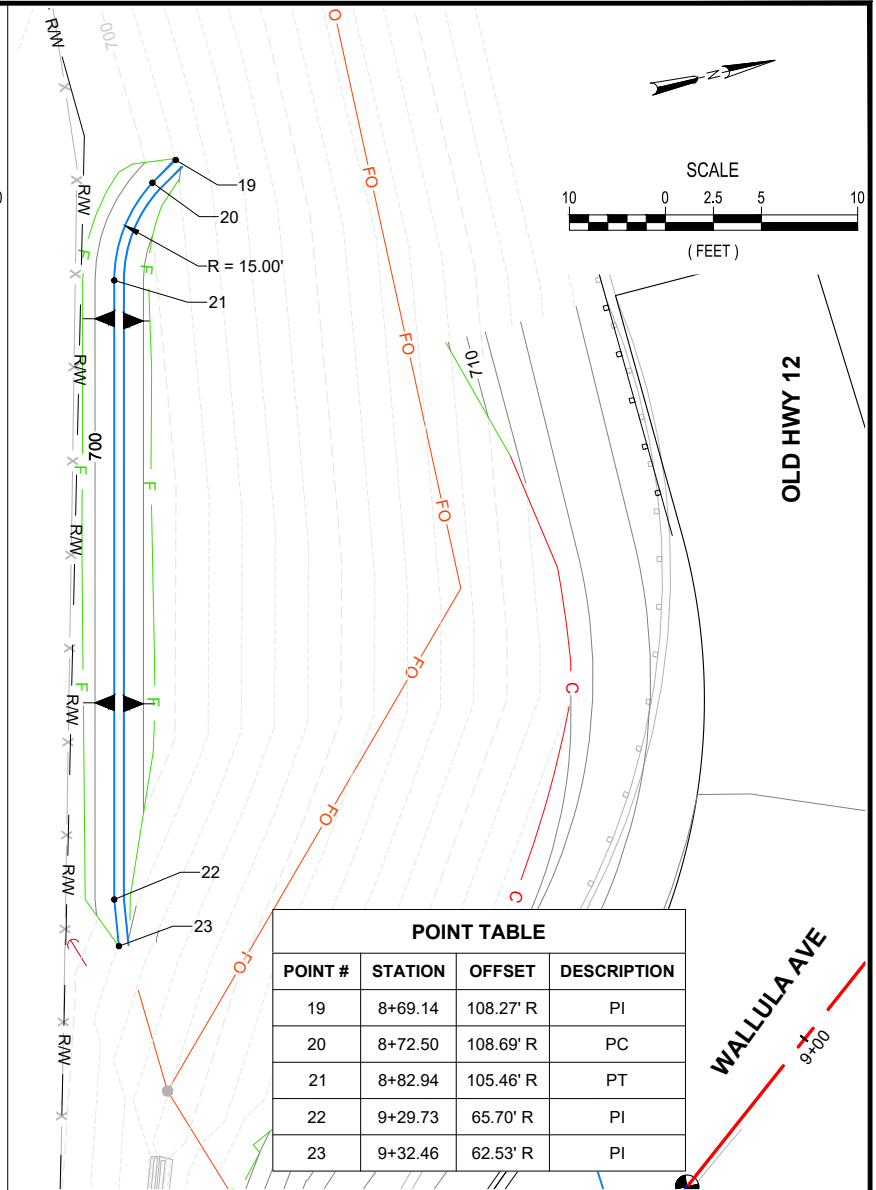
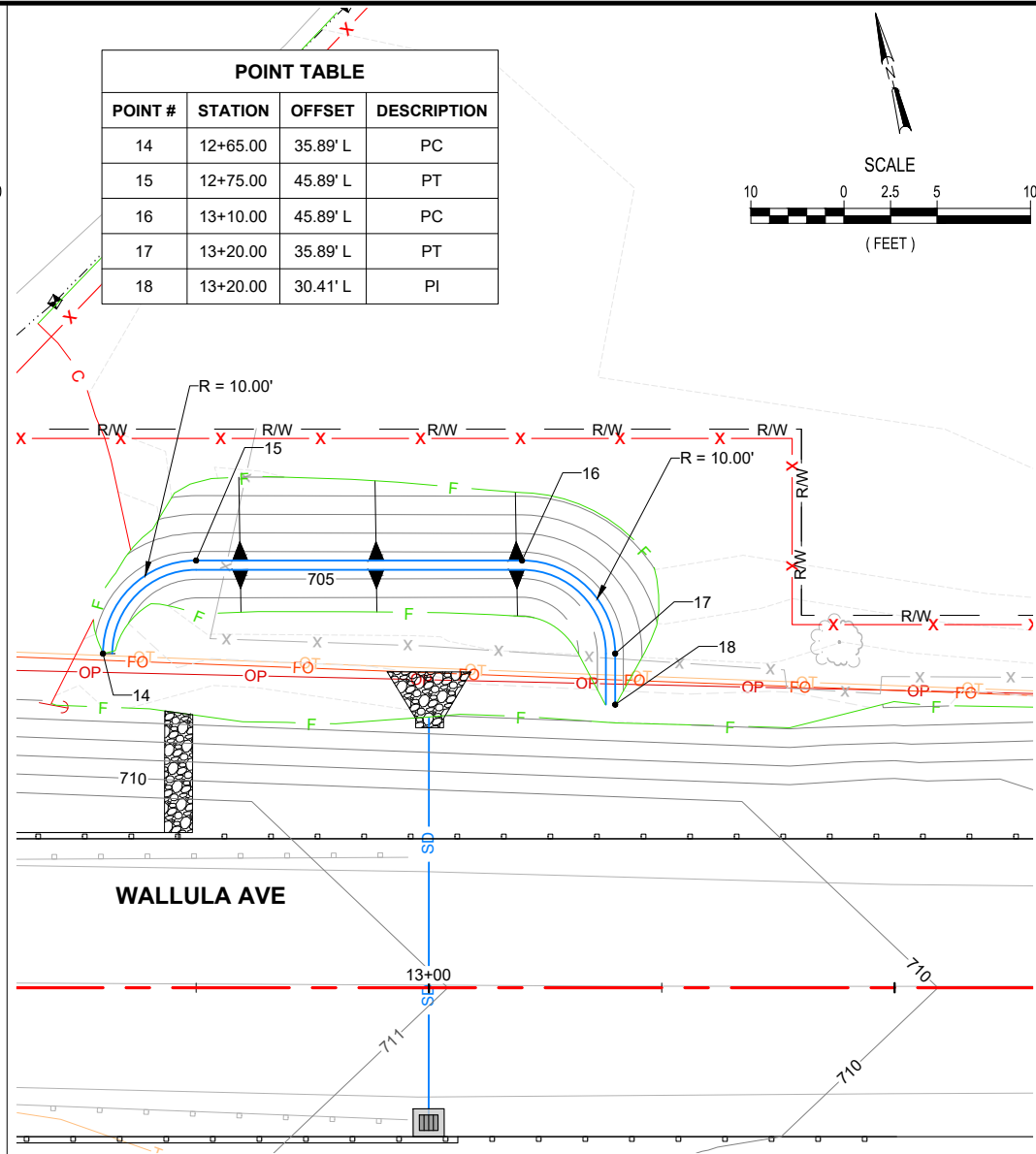
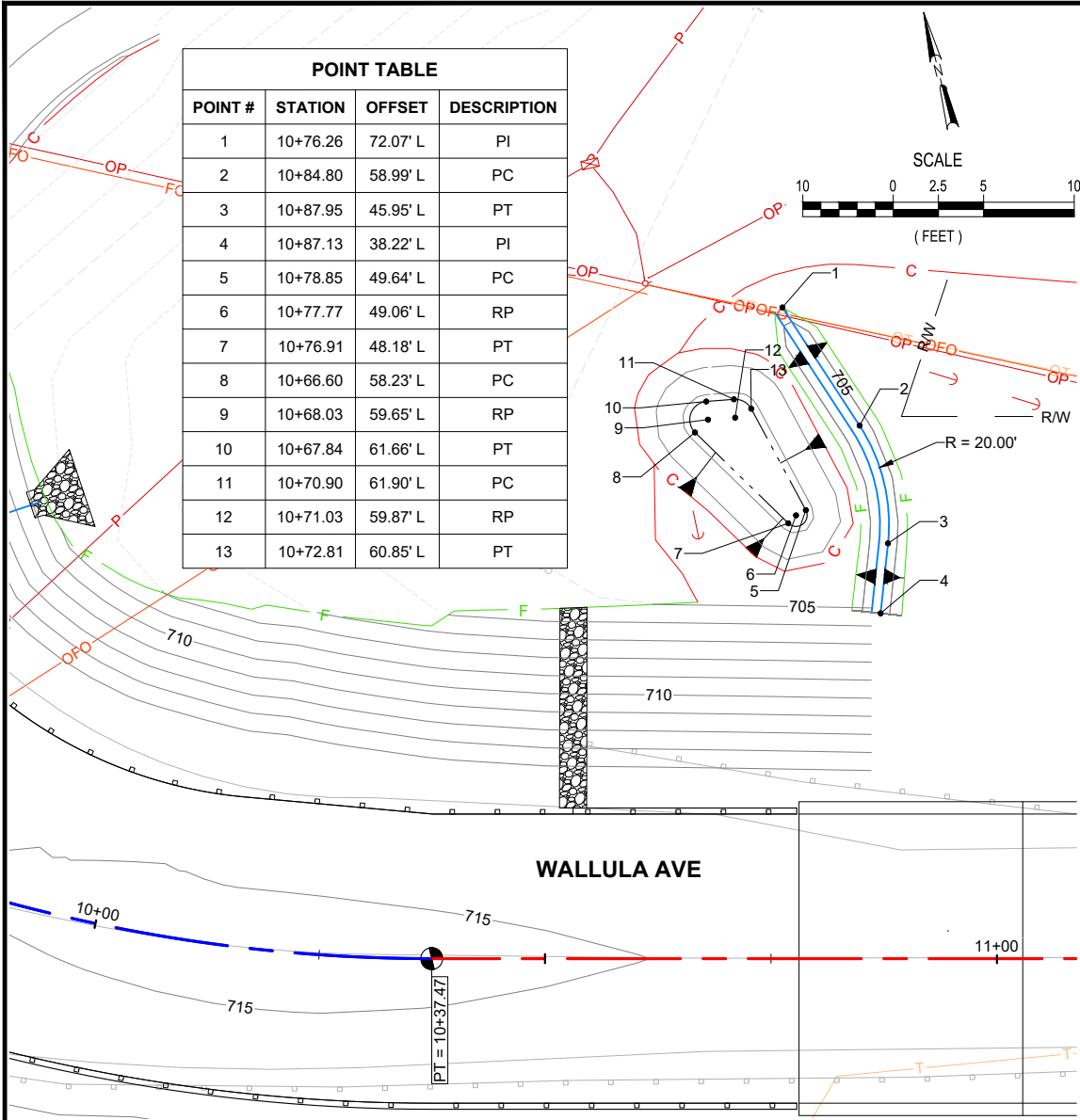
Walla Walla County
PUBLIC WORKS DEPARTMENT
9/8/2025
PLOT DATE



WALLULA AVENUE BRIDGE

TYPICAL ROAD SECTIONS

SHEET
8
8 OF 47



NOTES

- BERMS AND SWALES ARE INCLUDED IN EXCAVATION AND EMBANKMENT WORK

DRAWN: AWRA	DESIGNER: LXHE	CHECKED: HRC	PROJ. ENG.: HRC	APPROVED BY:
9/8/2025	REV DATE	REVISION	BY	APP'D

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DAVID EVANS AND ASSOCIATES INC.

908 N Howard St Ste 300
Spokane, WA 99201
Phone: 509.327.8897

Walla Walla County

PUBLIC WORKS DEPARTMENT

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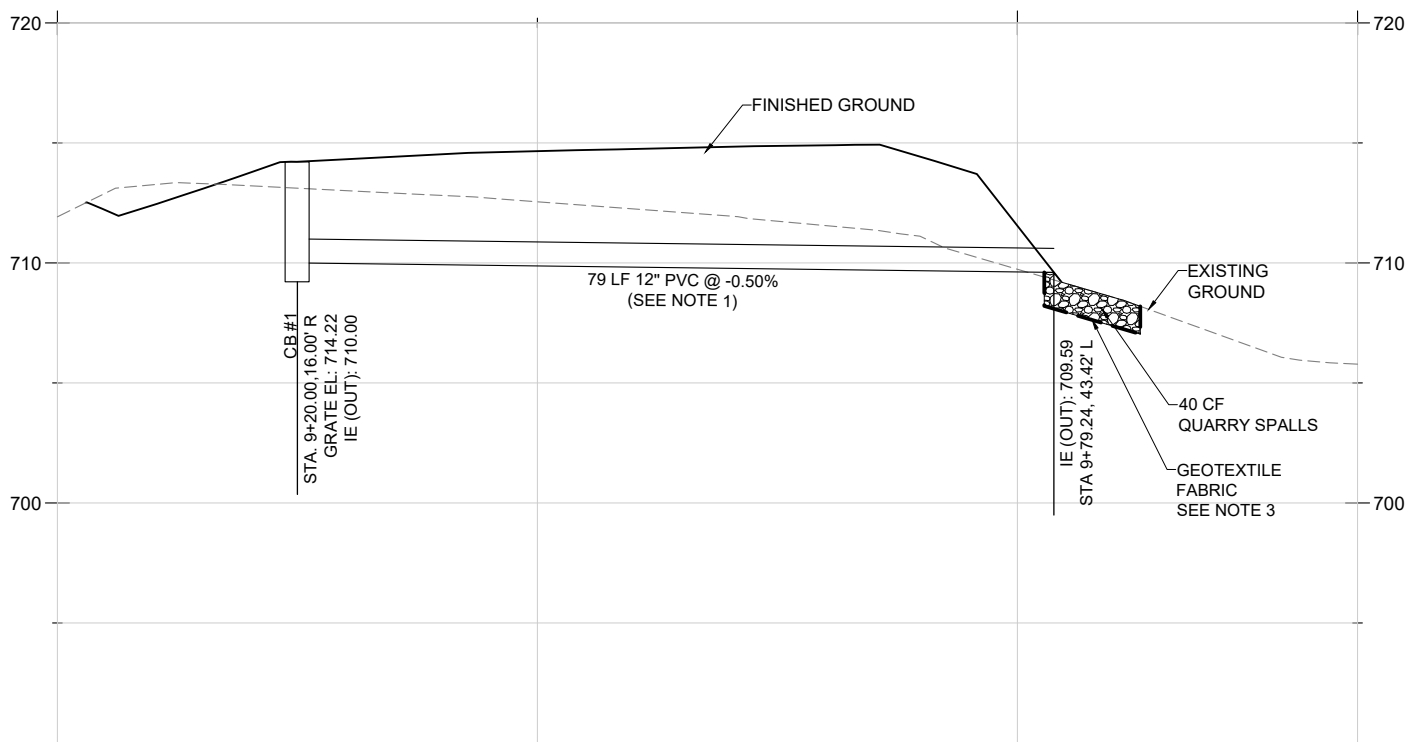
WALLULA AVENUE BRIDGE

SWALE DETAILS

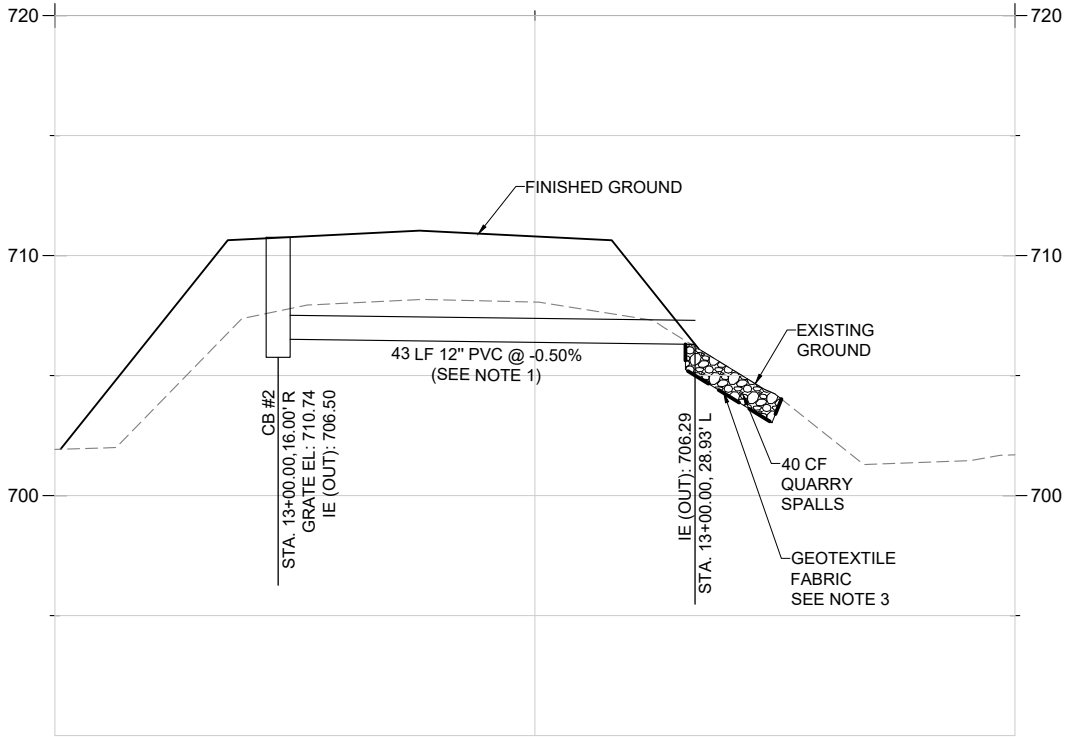
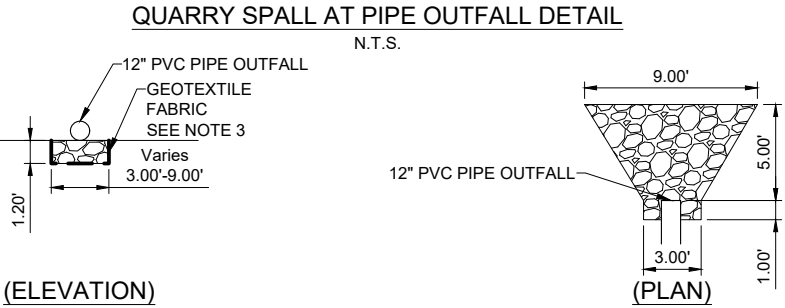
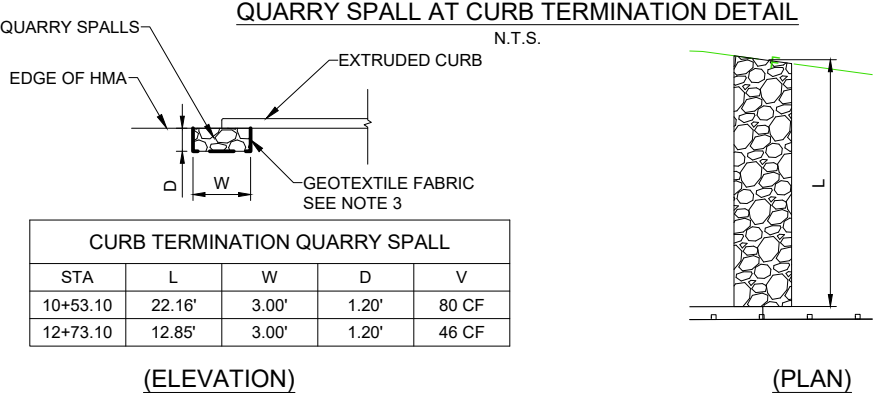
SHEET 9 OF 47

NOTES:

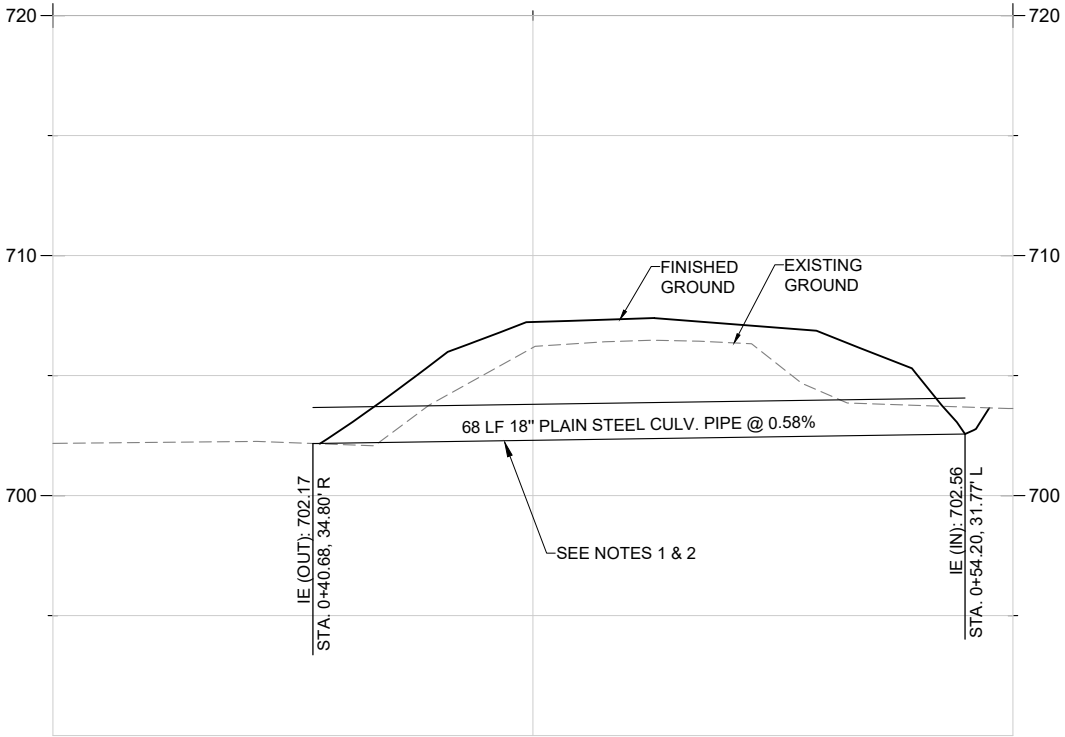
1. PIPE ZONE BEDDING AND BACKFILL PER WSDOT STANDARD PLAN B-55.20-03. PIPE ZONE BEDDING, BACKFILL AND FITTINGS SHALL BE INCIDENTAL TO PIPE INSTALLATION.
2. COUPLING BANDS AND GASKETS PER WSDOT STANDARD PLAN B-60.40-01.
3. GEOTEXTILE FABRIC BENEATH QUARRY SPALLS SHALL MEET THE REQUIREMENTS OF WSDOT SPECIFICATION SECTION 9-33 GEOTEXTILE FOR PERMANENT EROSION CONTROL, HIGH SURVIVABILITY, WOVEN, CLASS B.



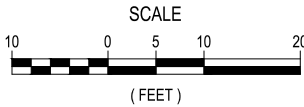
CB #1 TO OUTFALL
STORM SEWER PROFILE



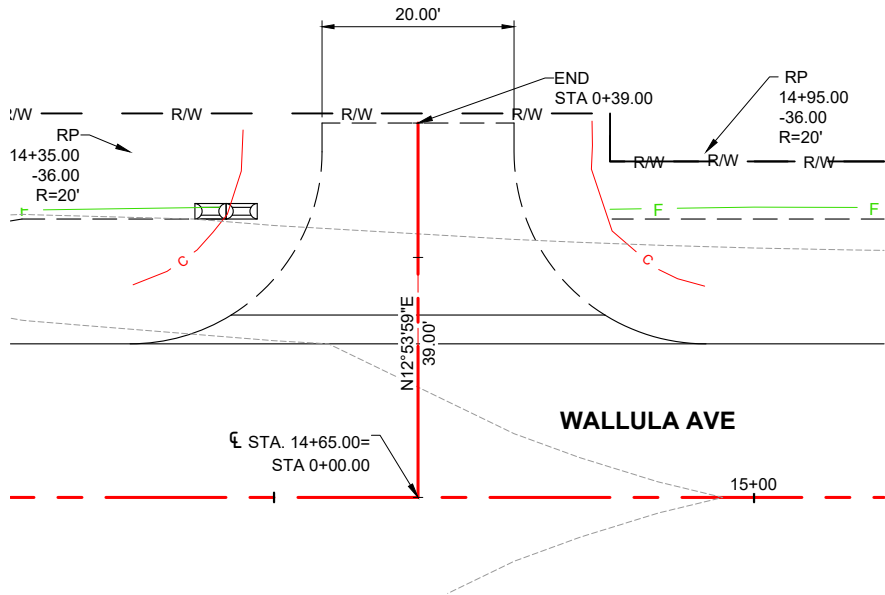
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STORM SEWER PROFILE



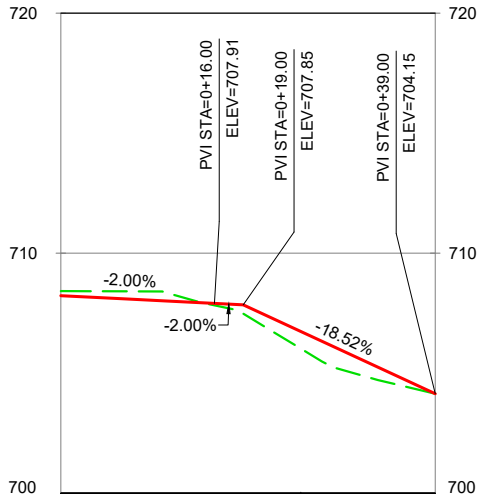
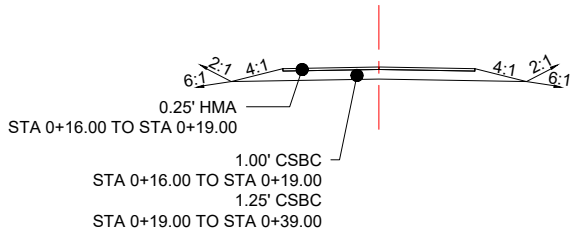
HARDING ROAD
CULVERT PROFILE



- NOTE:
- 1. TRANSITION ALL APPROACH CROSS SLOPES FROM WALLULA AVE RD TO MATCH EXISTING.
 - 2. ALL RADIUS POINT STATIONING REFERENCES THE WALLULA AVE ALIGNMENT



APPROACH STA 14+65.00
WALLULA AVE



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DRAWN: AWRA				
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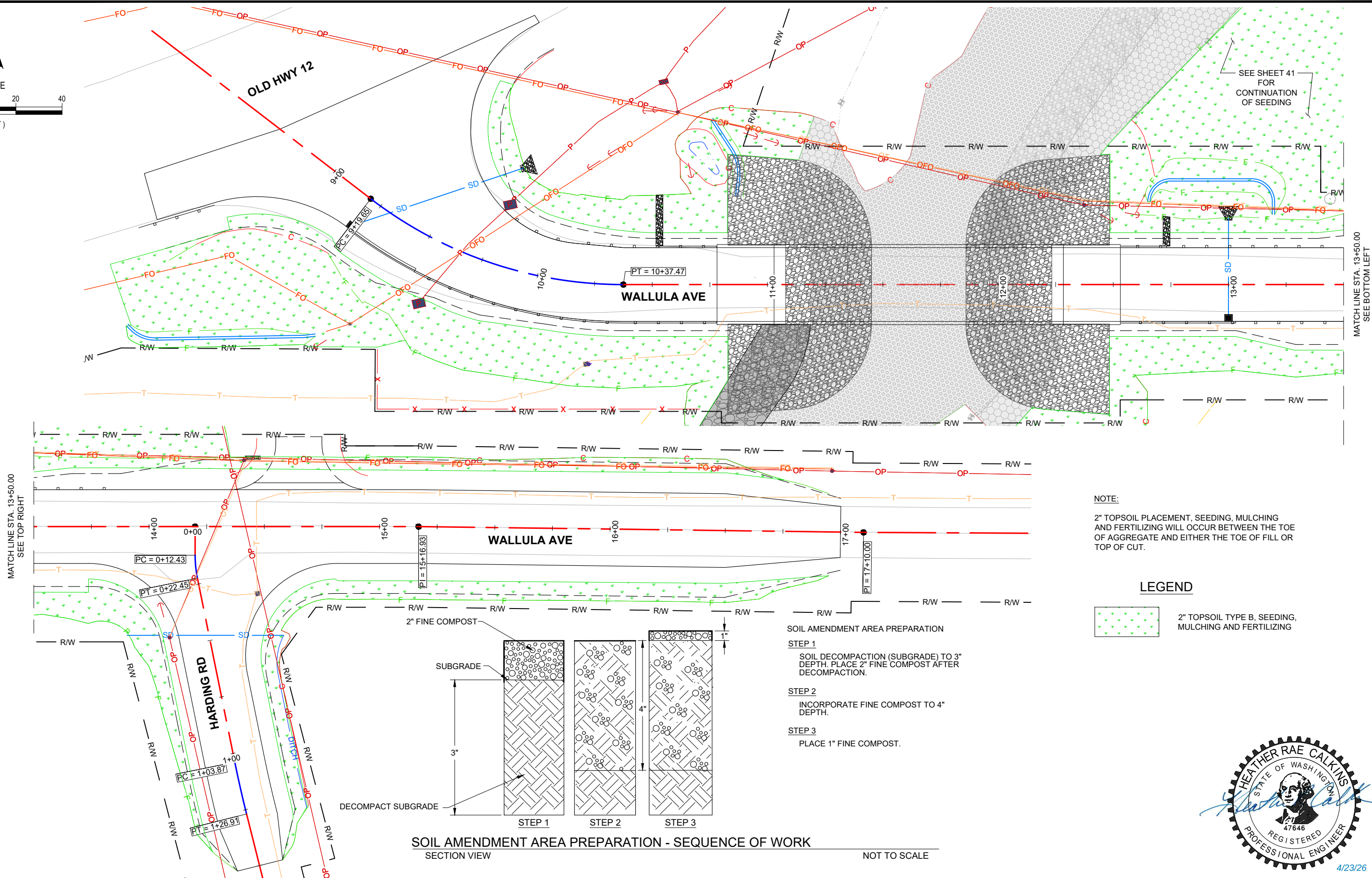
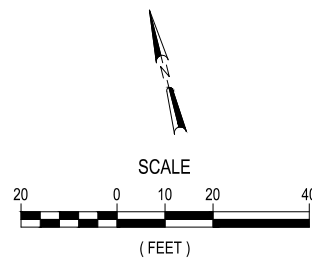
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Spokane, WA 99201
Phone: 509.327.8897

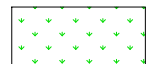
Walla Walla County
PUBLIC WORKS DEPARTMENT
4/22/2026
PLOT DATE

WALLULA AVENUE BRIDGE
APPROACH DETAILS
SHEET
10A
10A OF 47

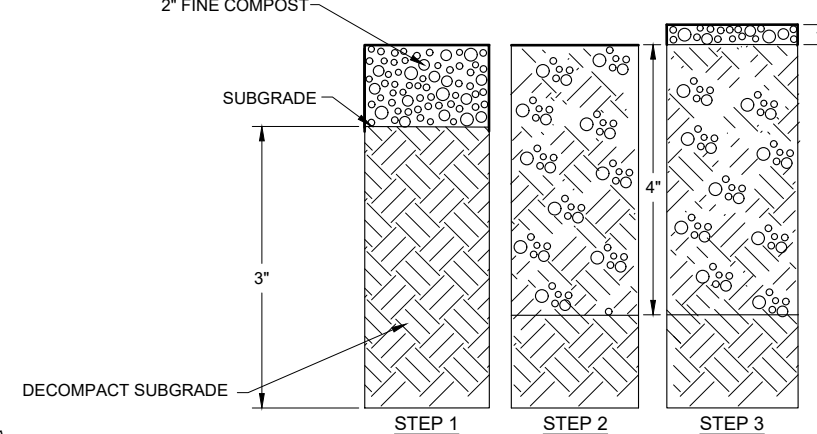


NOTE:
2" TOPSOIL PLACEMENT, SEEDING, MULCHING
AND FERTILIZING WILL OCCUR BETWEEN THE TOE
OF AGGREGATE AND EITHER THE TOE OF FILL OR
TOP OF CUT.

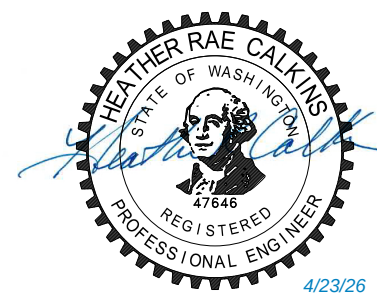
LEGEND

 2" TOPSOIL TYPE B, SEEDING,
MULCHING AND FERTILIZING

SOIL AMENDMENT AREA PREPARATION - SEQUENCE OF WORK
SECTION VIEW



NOT TO SCALE



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DRAWN: AWRA				10	WASH	BRS-L360(001)	
DESIGNER: LXHE						TA-7561	
CHECKED: HRC				JOB NUMBER			
PROJ. ENG.: HRC				22-03			
APPROVED BY:							
4/22/2026	REV DATE	REVISION	BY	APP'D			



DAVID EVANS
AND ASSOCIATES INC.
508 N Howard St Ste 300
Spokane, WA 99201
Phone: 509.327.8897

Walla Walla County

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4/23/2026
PLOT DATE



WALLULA AVENUE BRIDGE

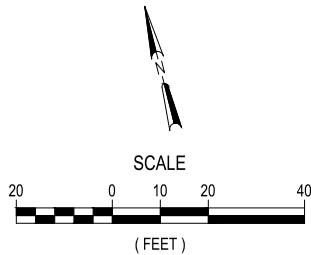
LANDSCAPING PLAN

SHEET
11
11 OF 47

- 1 DOUBLE CENTERLINE, PER WSDOT STANDARD PLAN M-20.10-04
- 2 EDGE LINE, PER WSDOT STANDARD PLAN M-20.10-04
- 3 STOP LINE, PER WSDOT STANDARD PLAN M-24.60-04
- 4 INSTALL SIGN, SIGN SUPPORT PER WSDOT STANDARD PLAN G-24.50-05 TYPE ST-4 WITH 2" POST AND 2 1/4" PSST ANCHOR, SIGN LOCATION PER WSDOT STANDARD PLAN G-20.10-03
- 5 INSTALL 6" ROAD NAME SIGN D3-102, ROAD NAME SIGNS SHALL BE INCIDENTAL TO PERMANENT SIGNING
- 6 DOTTED LANE LINE, PER WSDOT STANDARD PLAN M-20.10-04
- 7 WIDE EDGE LINE, PER WSDOT STANDARD PLAN M-20.10-04
- 8 INSTALL MAILBOX SUPPORT TYPE 2, PER WSDOT STANDARD PLAN H-70.20-02 (TYP OF 2)

- GUIDE POST TYPE G1, PER WSDOT
STANDRAD PLAN M-40.30-01 & M-40.10-04
- GUIDE POST TYPE G2, PER WSDOT
STANDRAD PLAN M-40.30-01 & M-40.10-04
- GUIDE POST TYPE WW, PER WSDOT
STANDARD PLAN M-40.10-04, LAYOUT PER
WSDOT STANDARD PLAN M-40.40-00 &
M-40.30-01

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RAWN: AWRA		
DESIGNER: LXHE		
CHECKED: HRC		
ROJ. ENG.: HRC		
APPROVED BY:		
7/29/2025	REV DATE	REVISION



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RAWN: AWRA					10	WASH	BRS-L360(001) TA-7561
DESIGNER: LXHE							
CHECKED: HRC							
PROJ. ENG.: HRC							
APPROVED BY:					22-03		
7/29/2025	REV DATE	REVISION	BY	APP'D			



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AND ASSOCIATES INC.**
908 N Howard St Ste 300
Spokane, WA 99201
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9/8/2025
PLOT DATE

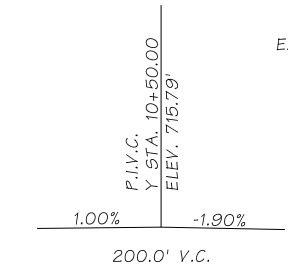
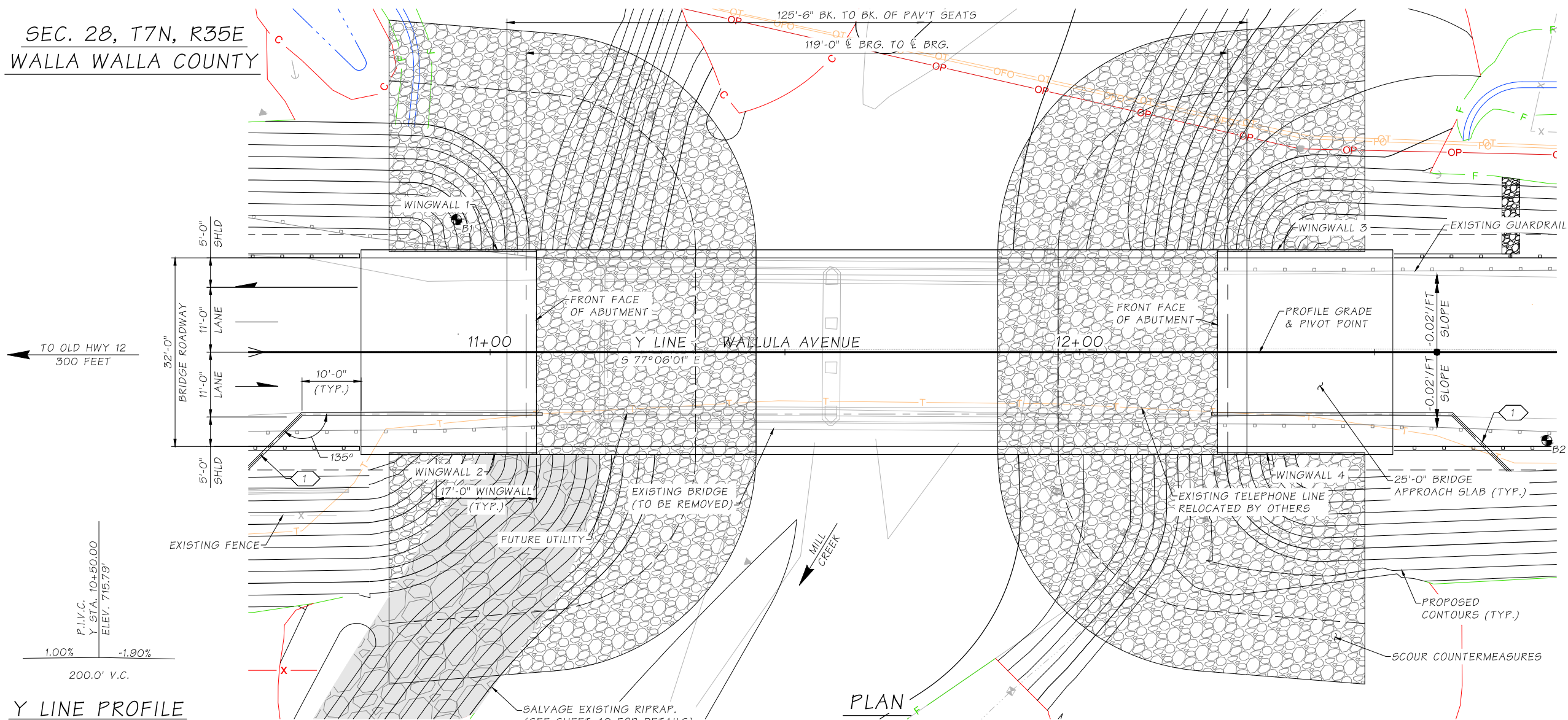
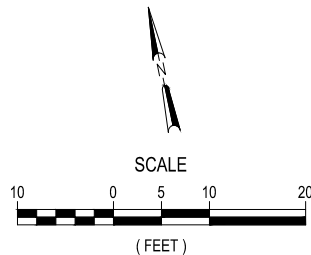


WALLULA AVENUE BRIDGE

PERMANENT TRAFFIC CONTROL

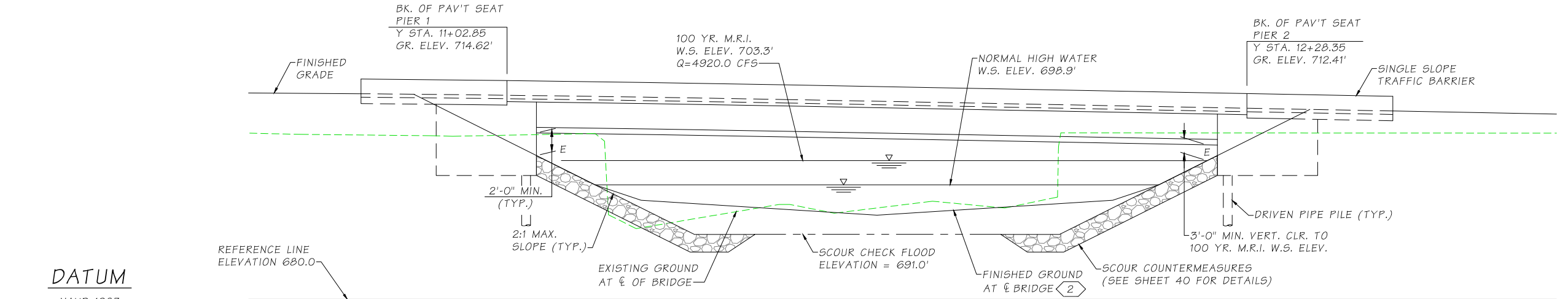
SHEET
12
OF 47

SEC. 28, T7N, R35E
WALLA WALLA COUNTY



Y LINE PROFILE

- NOTES:**
- 1 6" DIA. PVC SLEEVE FOR FUTURE UTILITY, EXTEND 1'-0" PAST END DIAPHRAGM, AND ROADWAY EMBANKMENT, CAP EACH END.
 - 2 SEE SHEET 39 FOR STREAM PLAN AND PROFILE



DATUM
NAVD 1983

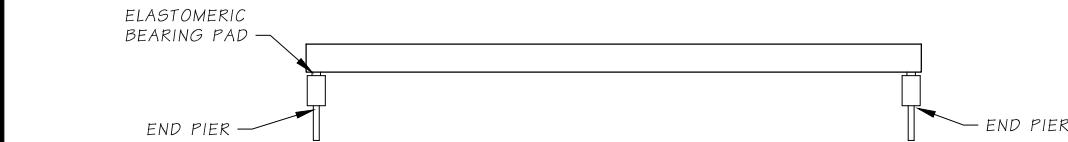
ELEVATION

GRADE ELEVATIONS SHOWN ARE FINISH GRADES AT TOP OF HMA OVERLAY ON Y LINE AND ARE EQUAL TO PROFILE GRADE. SEE STANDARD PLAN A-50.10 FOR EMBANKMENT DETAILS AT BRIDGE ENDS

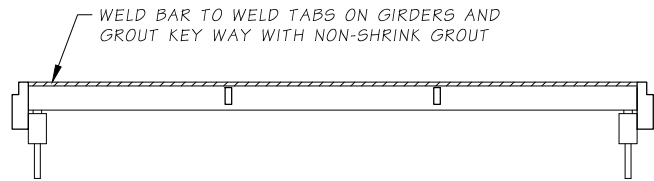


P.C. GIRDERS (WF53DG)
W/ 3" ASPHALT OVERLAY
LOADING: HL-93
SEISMIC OPERATING CLASSIFICATION = ORDINARY

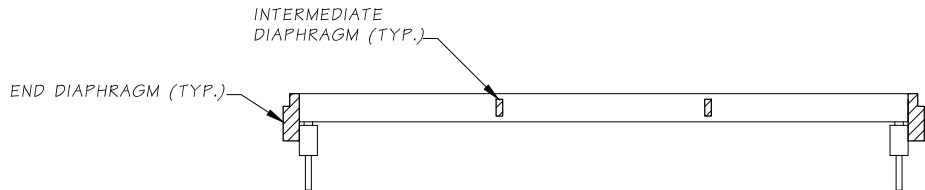
DRAWN: DRFO DESIGNER: JXLE CHECKED: EJF PROJ. ENG.: JDWA APPROVED BY: 4/23/2026				REGION NO. 10 STATE WASH JOB NUMBER 22-03	FEDERAL AID PROJECT NO. BRS-L360(001) TA-7561	 DAVID EVANS AND ASSOCIATES INC. 508 N Howard St Ste 300 Spokane, WA 99201 Phone: 509.327.8897		Walla Walla County PUBLIC WORKS DEPARTMENT 4/23/2026 PLOT DATE		 WALLULA AVENUE BRIDGE BRIDGE LAYOUT		SHEET 13 13 OF 47
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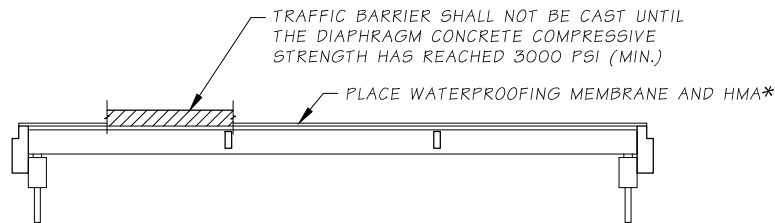
SEQUENCE 1
SET GIRDERS IN PLACE
INSTALL TEMPORARY BRACING FOR ERECTION IN ACCORDANCE WITH STD. SPEC. SECTION 6-02.3(17)F4.



SEQUENCE 2
MECHANICALLY CONNECT GIRDERS AND GROUT KEYWAYS



SEQUENCE 3
CAST DIAPHRAGMS
INSTALL TEMPORARY BRACING FOR DIAPHRAGM PLACEMENT IN ACCORDANCE WITH STD. SPEC. SECTION 6-02.3(17)F5.



SEQUENCE 4
CAST TRAFFIC BARRIERS AND PLACE WATERPROOFING MEMBRANE AND HMA

CONSTRUCTION SEQUENCE - SUPERSTRUCTURE

* FOR WATERPROOFING MEMBRANE PLACEMENT EXTENTS SEE BR SHT. 33 "APPROACH ANCHOR - METHOD A" DETAILS.

GENERAL STRUCTURE NOTES:

- 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 CURRENT EDITION AND IN ACCORDANCE WITH THE PROJECT SPECIAL PROVISIONS.
- THIS STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS 9TH EDITION 2020. BRIDGE TRAFFIC BARRIER HAS BEEN DESIGNED PER TEST LEVEL (TL-4).
- THE SEISMIC DESIGN OF THE STRUCTURE HAS BEEN COMPLETED IN ACCORDANCE WITH THE REQUIREMENTS OF THE AASHTO GUIDE SPECIFICATIONS FOR LRFD SEISMIC BRIDGE DESIGN 2ND EDITION 2011 WITH INTERIMS THROUGH 2022, USING SEISMIC DESIGN CATEGORY B, SITE CLASS D, A PEAK GROUND ACCELERATION OF 0.112, AND 0.2 SECOND AND 1.0 SECOND SPECTRAL ACCELERATION OF 0.246 AND 0.071, RESPECTIVELY ON SITE CLASS B.
- THE CONTRACTOR SHALL PLAN AND CONDUCT THE WORK IN SUCH A MANNER THAT NO OBJECTS OR FOREIGN MATERIALS FALL FROM THE WORK ON THE EXISTING OR NEW BRIDGE INTO THE CREEK CHANNEL BELOW. THE CONTRACTOR'S PLAN FOR ACCOMPLISHING THIS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO THE START OF CONSTRUCTION.
- THE CONCRETE IN BRIDGE APPROACH SLABS SHALL BE CLASS 4000A. ALL OTHER CAST-IN-PLACE CONCRETE SHALL BE CLASS 4000.
- REINFORCING BARS SHALL CONFORM TO ASTM A706 GRADE 60, UNLESS OTHERWISE NOTED.
- UNLESS OTHERWISE SHOWN IN THE PLANS, CONCRETE COVER MEASURED FROM THE FACE OF CONCRETE TO THE FACE OF ANY REINFORCING STEEL SHALL BE 3" AT THE BOTTOM OF THE PIER CAPS, AND 2" AT ALL OTHER LOCATIONS.
- THE BACKFILL BEHIND THE ABUTMENT MAY BE PLACED TO THE BOTTOM OF THE END DIAPHRAGM PRIOR TO PLACEMENT OF THE SUPERSTRUCTURE IN ACCORDANCE WITH SECTION 3-07.3(1)E.
- FALSEWORK SHALL BE CAREFULLY RELEASED TO PREVENT IMPACT OR UNDUE STRESS IN THE STRUCTURE.
- ALL EXPOSED CONCRETE CORNERS SHALL BE CHAMFERED 3/4", UNLESS OTHERWISE NOTED.
- THE BRIDGE SHALL BE CONSTRUCTED TO THE LINE AND PROFILE OF THE Y LINE. ALL ELEVATIONS ARE BASED OFF THE Y LINE. HMA OVERLAY THICKNESS MAY VARY ALONG THE LENGTH OF THE BRIDGE TO ACHIEVE DESIGN PROFILE DUE TO GIRDER CAMBER.
- THE DEEP FOUNDATION DESIGN ASSUMES THE SOIL PROTECTED BY THE BURIED REVETMENT SCOUR COUNTERMEASURES REMAINS IN PLACE.

DESIGN DATA:

- DESIGN SPECIFICATIONS:
 - AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS 9TH EDITION 2020
 - STATE OF WASHINGTON, DEPARTMENT OF TRANSPORTATION, BRIDGE DESIGN MANUAL (LRFD), JUNE 2022.
 - SEISMIC DESIGN IN ACCORDANCE WITH AASHTO GUIDE SPECIFICATIONS FOR LRFD SEISMIC BRIDGE DESIGN, 2ND EDITION WITH INTERIMS THROUGH 2022.
- DESIGN LOADS:
 - UNIT WEIGHTS:
 - REINFORCED CONCRETE = 155 PCF
 - BACKFILL = 130 PCF
 - LIVE LOAD: HL-93
 - EARTH PRESSURE COEFFICIENTS: $K_a = 0.27$, $K_o = 0.43$, $K_{ae} = 0.32$
 - FUTURE WEARING SURFACE: 35 PSF
 - SEISMIC PARAMETERS (FOR SITE CLASS D):
 - ZERO PERIOD RESPONSE ACCELERATION (A_s) = 0.176g
 - SHORT PERIOD ACCELERATION (SDS) = 0.393g
 - LONG PERIOD ACCELERATION ($SD1$) = 0.171g
 - SEISMIC DESIGN CATEGORY = B
- BARRIER LOADS:
 - BARRIERS ARE DESIGNED PER TEST LEVEL 4 (TL-4)

LEGEND

- IDENTIFIES SECTION OR VIEW
TAKEN OR SHOWN ON BRIDGE SHEET 15
- IDENTIFIES DETAIL
TAKEN OR SHOWN ON SAME SHEET
- NOTE FLAG: IDENTIFIES KEY NOTE REFERENCE ON THE SAME SHEET
- EPOXY COATED BAR



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DRAWN: DRFO					10	WASH	BRS-L360(001) TA-7561
DESIGNER: JXLE							
CHECKED: EJF							
PROJ. ENG.: JDWA					JOB NUMBER		
APPROVED BY:					22-03		
4/23/2026		REV DATE	REVISION	BY	APP'D		



Walla Walla County
PUBLIC WORKS DEPARTMENT

4/23/2026
PLOT DATE



WALLULA AVENUE BRIDGE

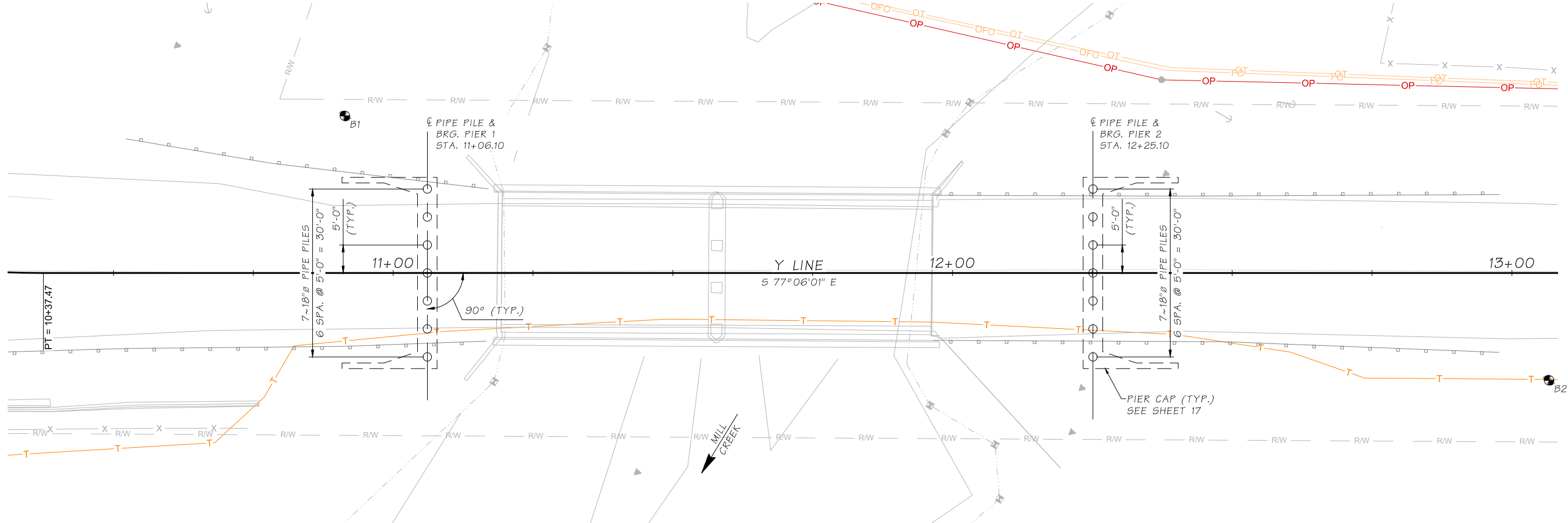
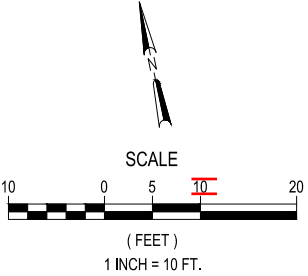
GENERAL STRUCTURE NOTES

SHEET

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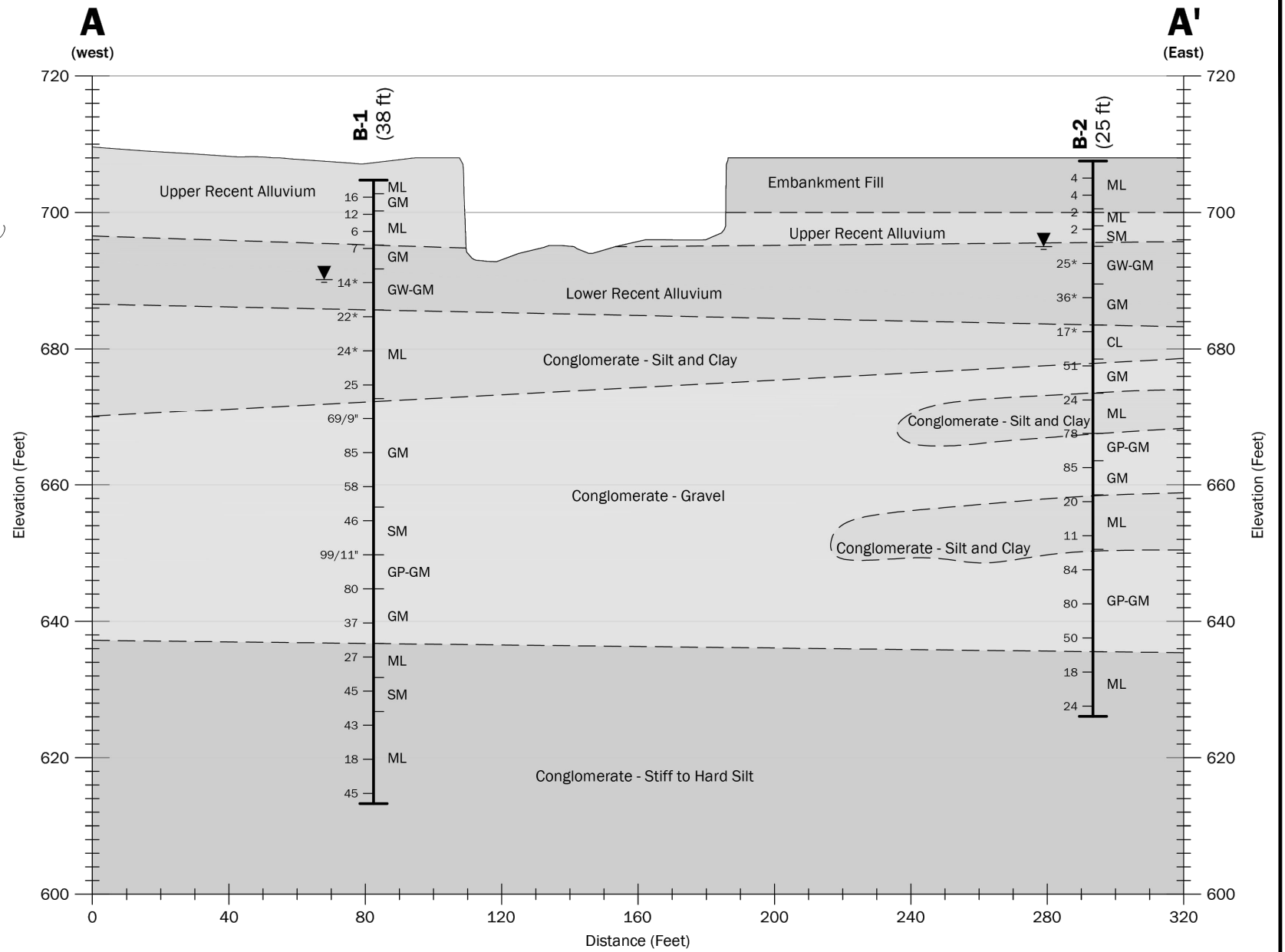
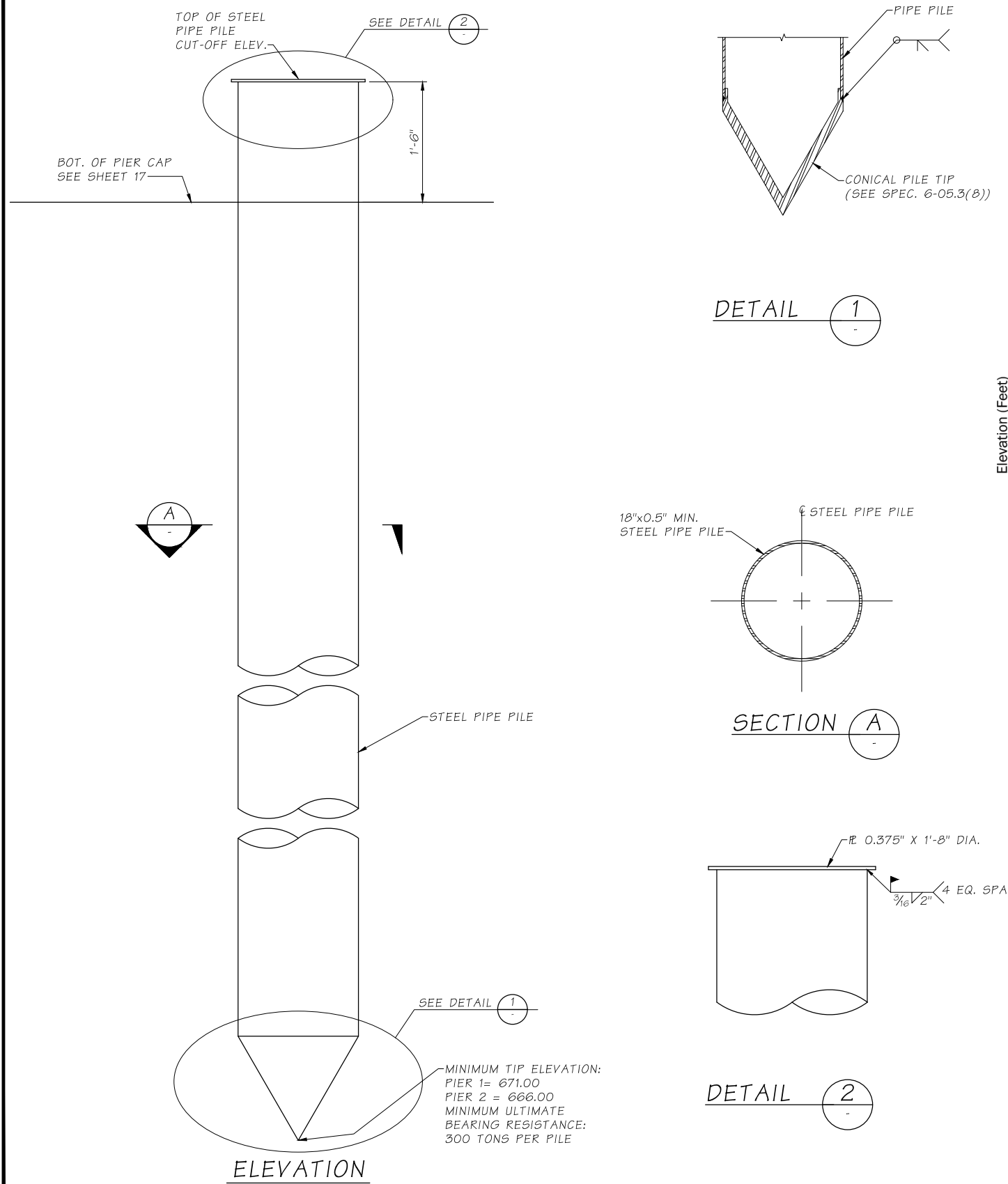
SEC. 28, T7N, R35E
WALLA WALLA COUNTY



FOUNDATION PLAN



DRAWN: DRFO					REGION NO.	STATE	FEDERAL AID PROJECT NO.	 DAVID EVANS AND ASSOCIATES INC. 908 N Howard St Ste 300 Spokane, WA 99201 Phone: 509.327.8897	Walla Walla County PUBLIC WORKS DEPARTMENT 9/9/2025 PLOT DATE		WALLULA AVENUE BRIDGE		SHEET
DESIGNER: JXLE													10
CHECKED: EJF					JOB NUMBER		15 OF 47						
PROJ. ENG.: JDWA					22-03								
APPROVED BY:													
9/9/2025					REV DATE	REVISION	BY	APP'D					

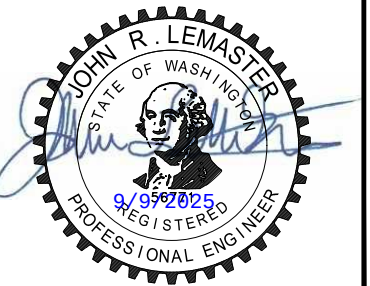


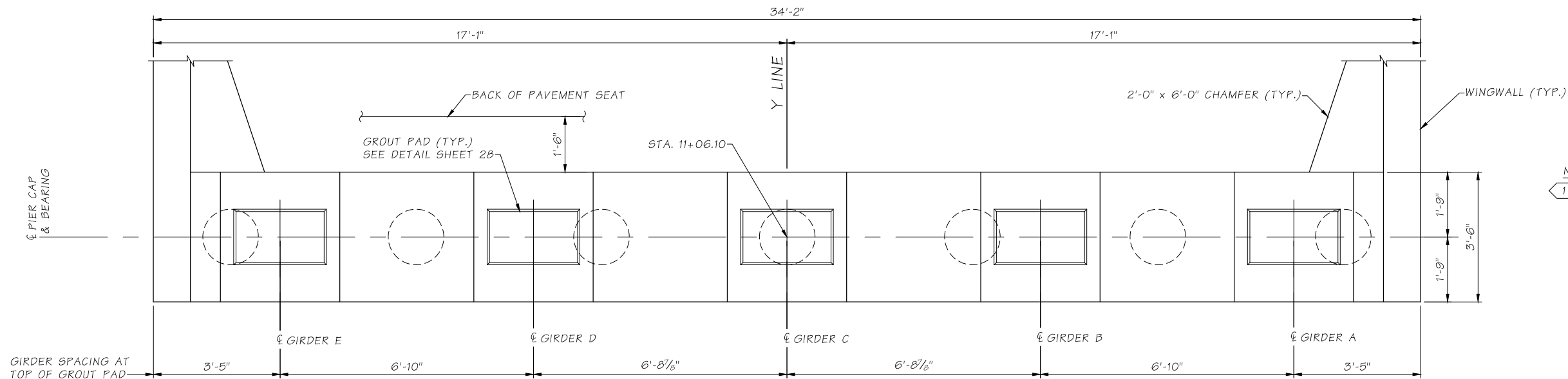
BORING DATA

SEE GEOTECHNICAL ENGINEERING EVALUATION REPORT FOR MORE DETAIL

NOTES:

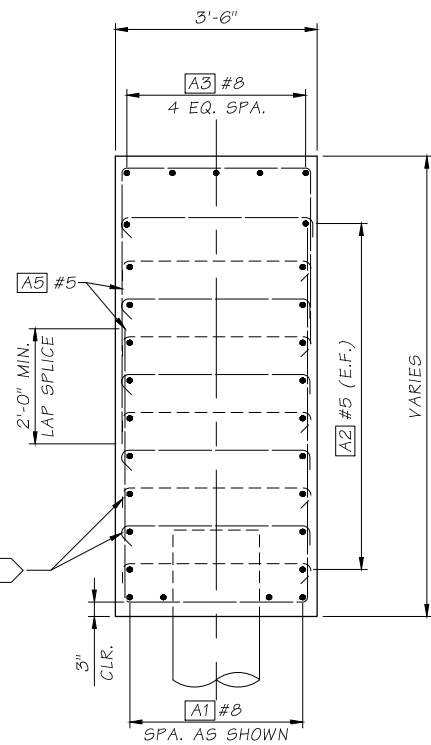
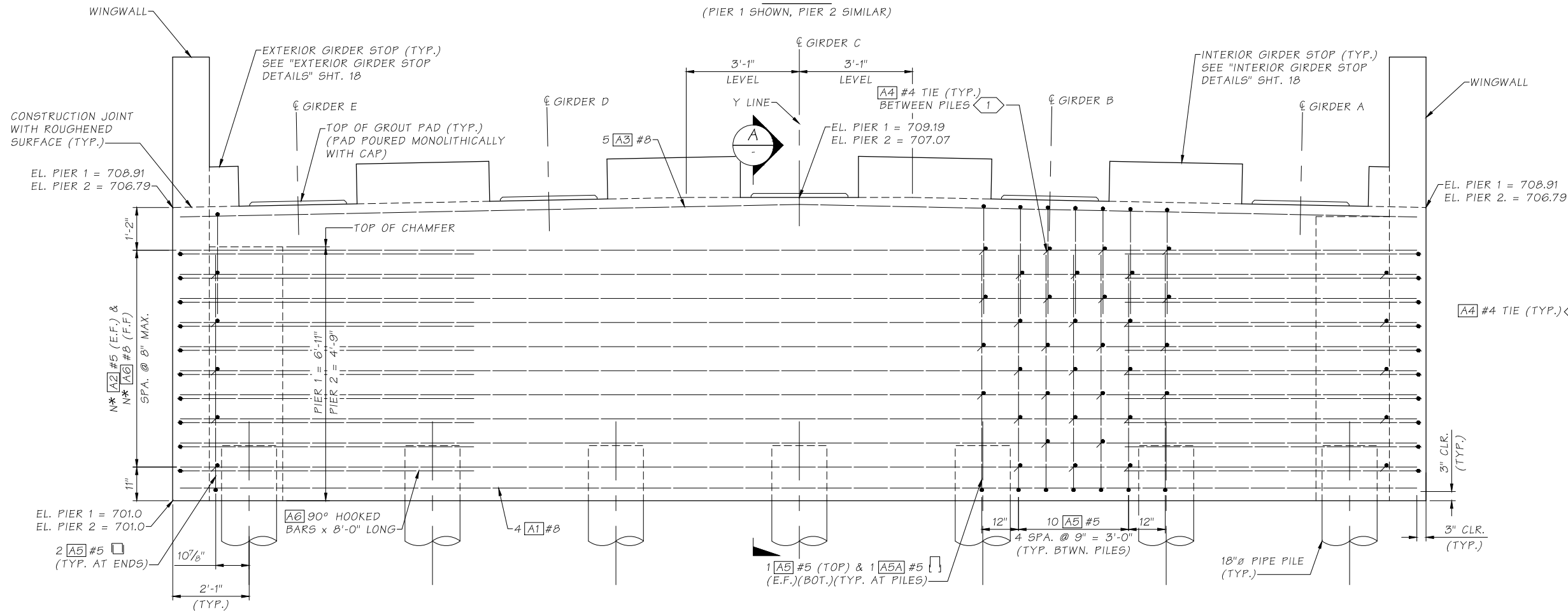
1. PREBORING MAY BE REQUIRED TO ACHIEVE MINIMUM PENETRATION DEPTH AND TIP ELEVATIONS.
2. MATERIAL FOR STEEL PILES SHALL CONFORM TO ASTM A252, GRADE 3 MOD.





NOTES:
 1 HOOK CROSS-TIES AROUND HORIZONTAL AND VERTICAL REINFORCEMENT ALTERNATE HOOKS IN ADJACENT CROSS-TIES. SPACE AS SHOWN 1/2" CONCRETE COVER TO TIE

PLAN
 (PIER 1 SHOWN, PIER 2 SIMILAR)



SECTION A

ELEVATION

(LOOKING BACK ON STATION)
 (PIER 1 SHOWN, PIER 2 SIMILAR)
 WINGWALL REINFORCEMENT NOT SHOWN FOR CLARITY, SEE SHT. 19 FOR DETAILS

TOP OF GROUT PAD AT CL BRG AND CL GIRDER					
GIRDER	A	B	C	D	E
PIER 1	709.11	709.25	709.31	709.25	709.11
PIER 2	706.99	707.12	707.19	707.12	706.99

GROUT PAD PLACED LEVEL LONGITUDINALLY AND PARALLEL TO CROSS-SLOPE TRANSVERSELY



N* ~ PIER 1 = 10, PIER 2 = 7

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DRAWN: DRFO					
DESIGNER: JXLE					
CHECKED: EJF					
PROJ. ENG.: JDWA					
APPROVED BY:					
8/20/2025	REV DATE	REVISION	BY	APP'D	

REGION NO.	STATE
10	WASH
JOB NUMBER	
22-03	

FEDERAL AID PROJECT NO.

BRS-L360(001)
TA-7561



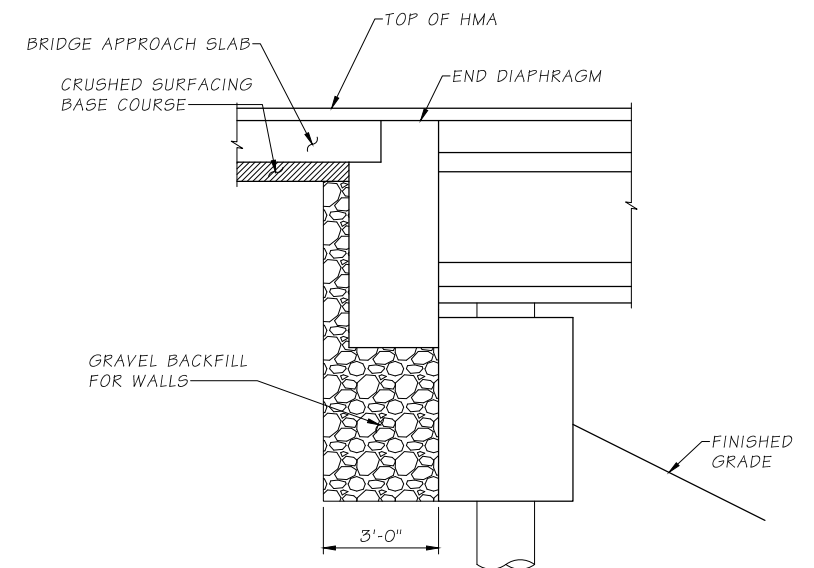
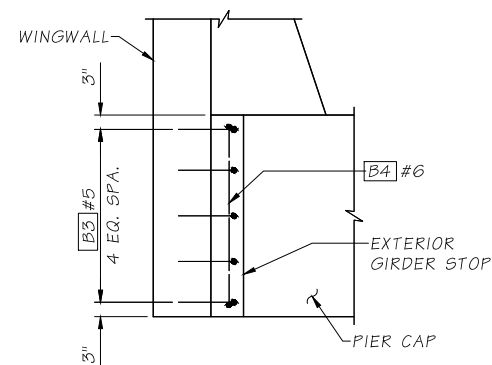
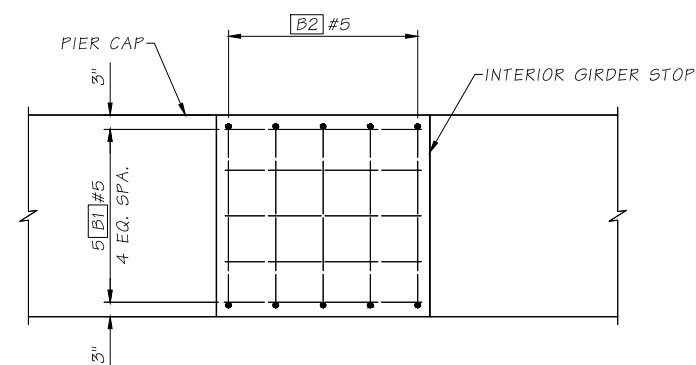
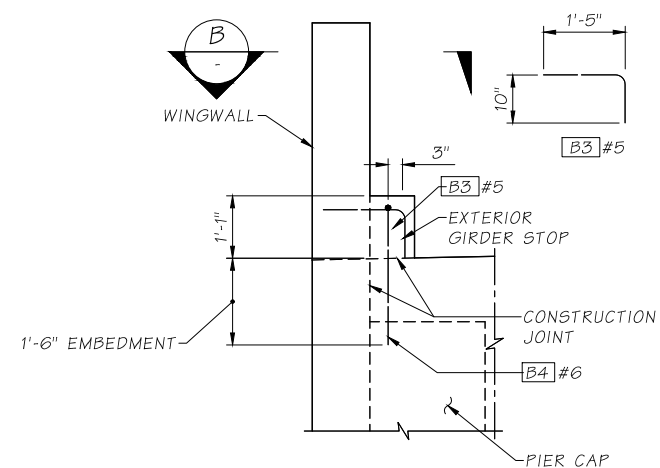
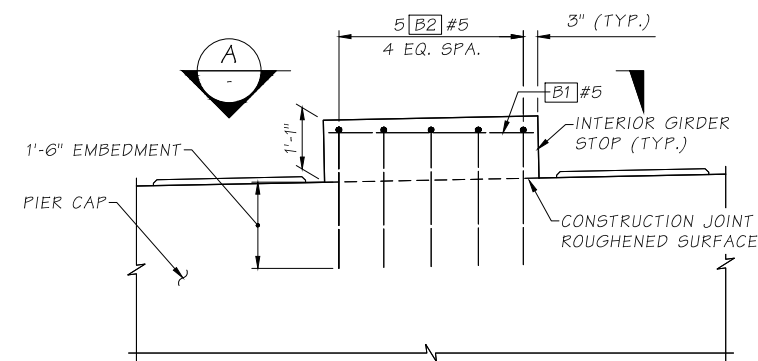
Walla Walla County
PUBLIC WORKS DEPARTMENT
 8/20/2025
 PLOT DATE



WALLULA AVENUE BRIDGE

PIER PLAN AND ELEVATION

SHEET
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DRAWN: DRFO					10	WASH	BRS-L360(001) TA-7561	
DESIGNER: JXLE								
CHECKED: EJF								
PROJ. ENG.: JDWA								
APPROVED BY:					JOB NUMBER			
					22-03			
7/30/2025	REV DATE	REVISION	BY	APPD				



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Spokane, WA 99201
Phone: 509.327.8997

Walla Walla County

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8/20/2025
PLOT DATE



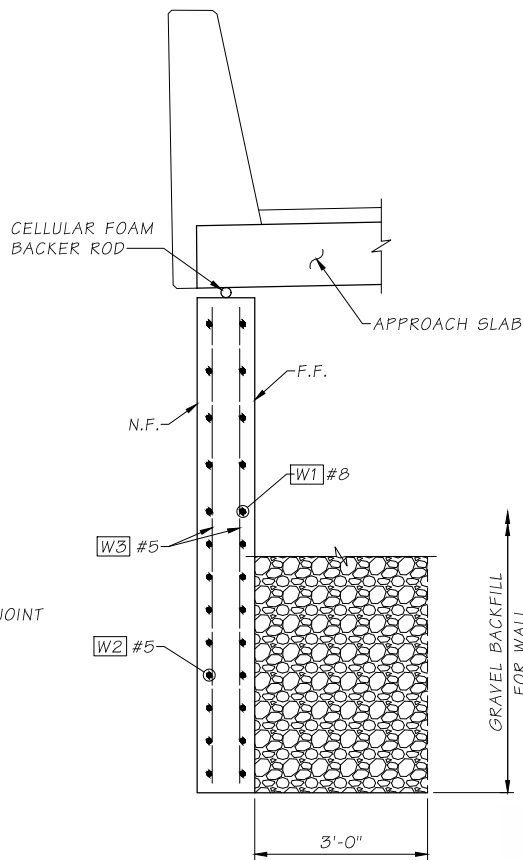
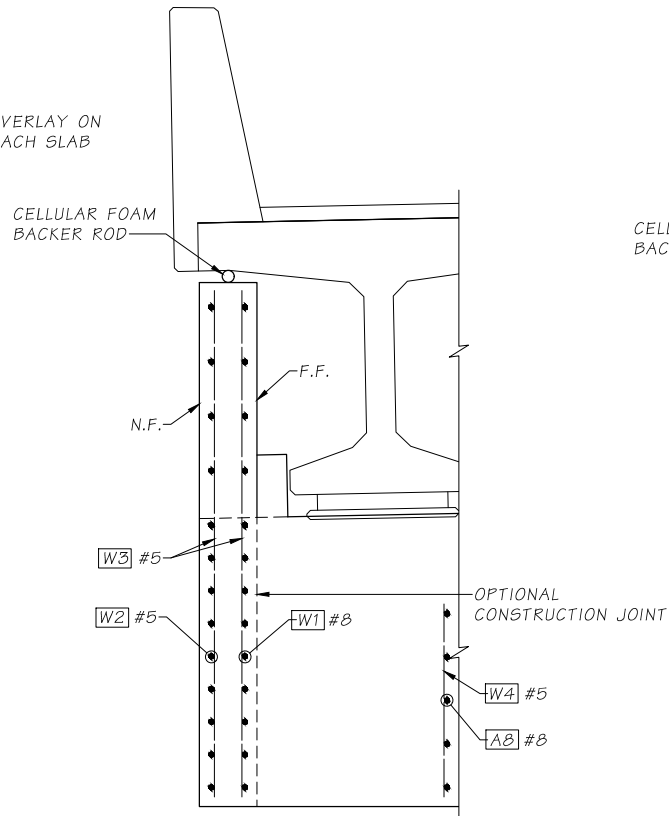
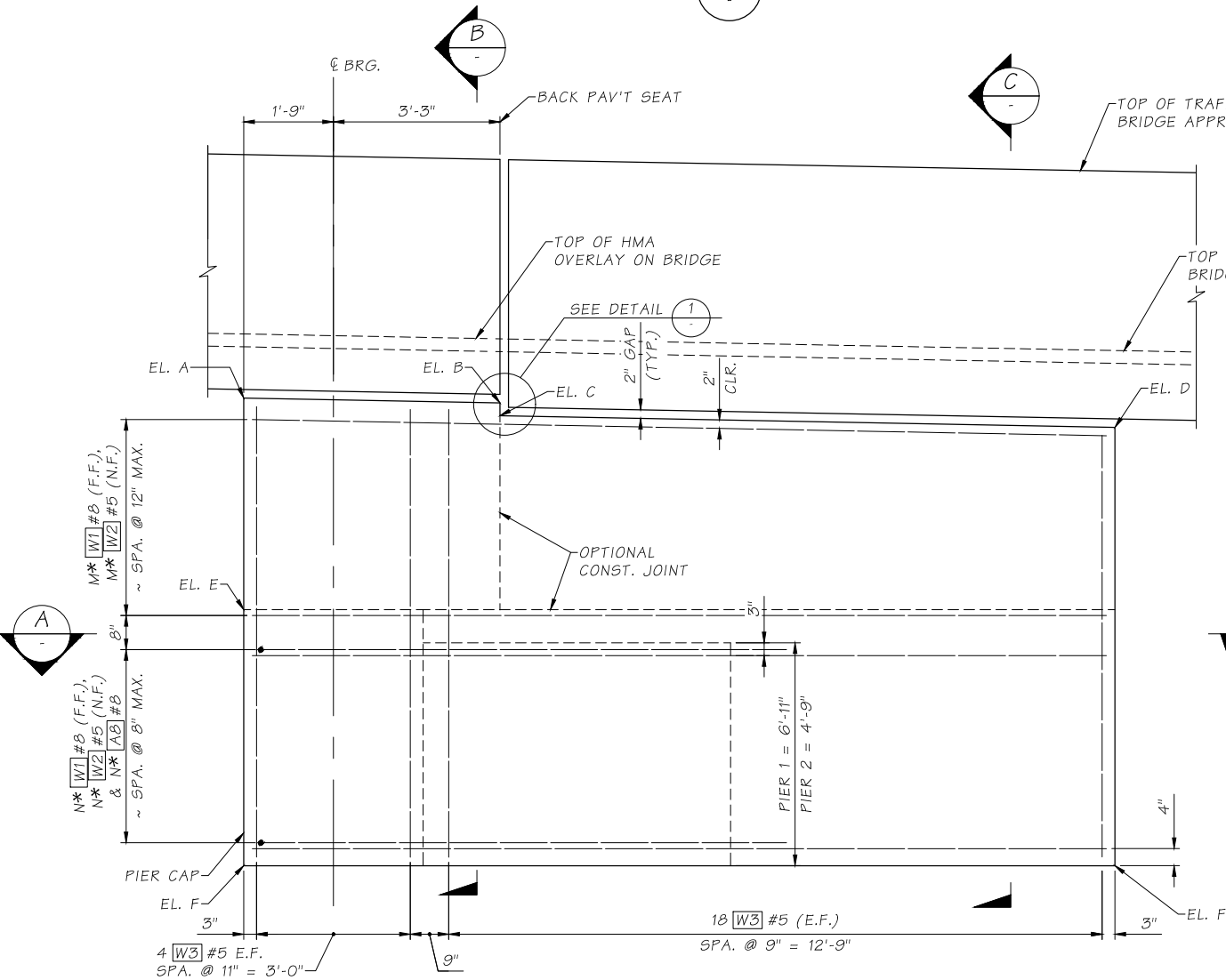
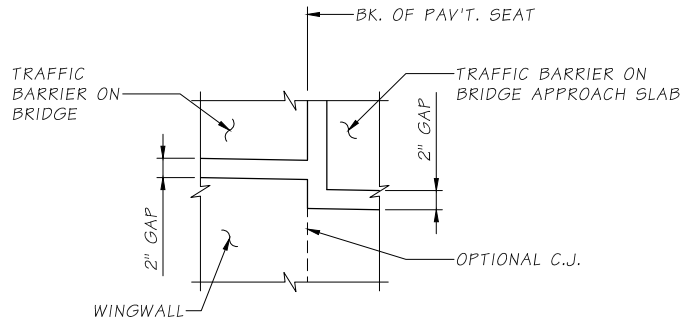
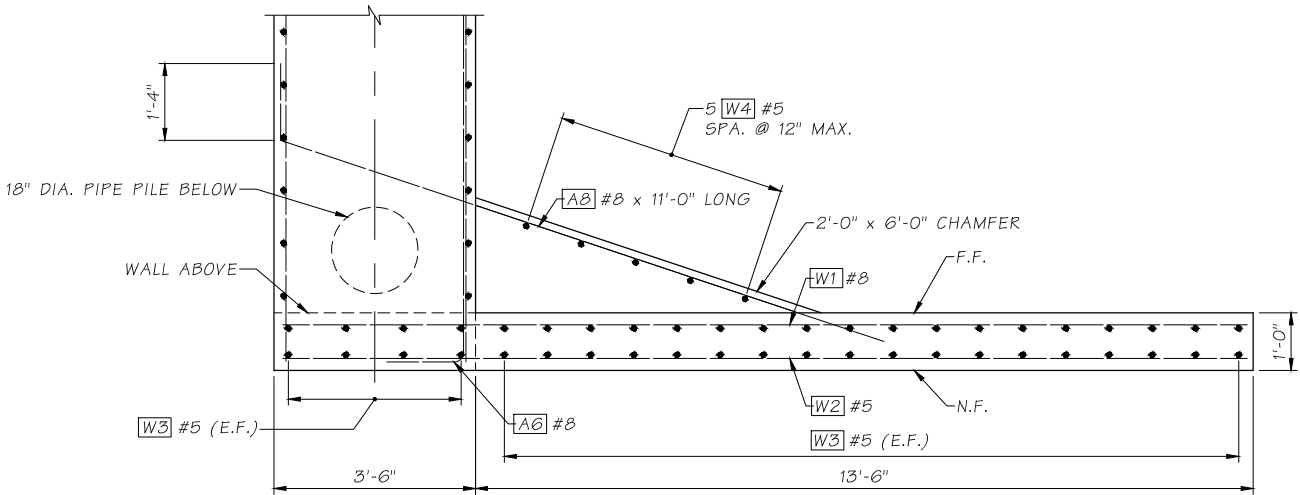
WALLULA AVENUE BRIDGE

PIER DETAILS

SHEET
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18 OF 47

WINGWALL ELEVATIONS						
	EL. A	EL. B	EL. C	EL. D	EL. E	EL. F
WING 1	712.92	712.98	712.75	712.89	708.91	701.00
WING 2	712.92	712.98	712.75	712.89	708.91	701.00
WING 3	710.85	710.76	710.53	710.30	706.79	701.00
WING 4	710.85	710.76	710.53	710.30	706.79	701.00

NOTES:
ELEVATIONS ARE TAKEN AT N.F. OF WINGWALLS
SEE SHEET 13 FOR WINGWALL LOCATION
N.F. = NEAR FACE
F.F. = FAR FACE
E.F. = EACH FACE



OUTSIDE ELEVATION WINGWALL

N* ~ PIER 1 = 11, PIER 2 = 9
M* ~ PIER 1 = 6, PIER 2 = 4

N.F. REINFORCEMENT SHOWN. F.F. REINF. NOT SHOWN FOR CLARITY,
EXCEPT WHERE NOTED. FOR PIER REINFORCEMENT NOT SHOWN SEE
PIER PLANS. PIER 2 RIGHT SHOWN, OTHERS SIMILAR

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DRAWN: DRFO					
DESIGNER: JXLE					
CHECKED: EJF					
PROJ. ENG.: JDWA					
APPROVED BY:					
8/20/2025	REV DATE	REVISION	BY	APP'D	

REGION NO.	STATE
10	WASH
JOB NUMBER	
22-03	

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BRS-L360(001)
TA-7561

DAVID EVANS AND ASSOCIATES INC.
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Spokane, WA 99201
Phone: 509.327.8897

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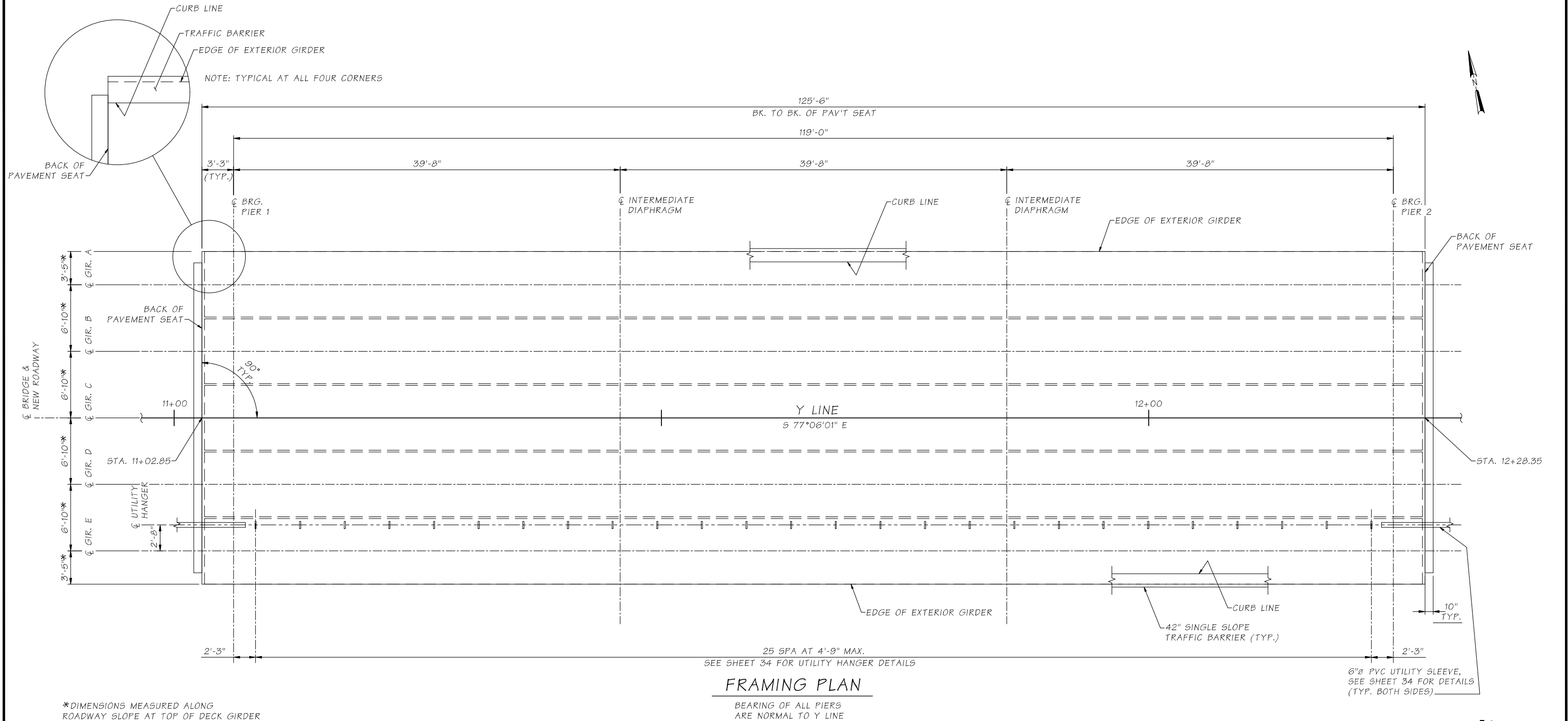


WALLULA AVENUE BRIDGE

WINGWALL DETAILS

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DRAWN: MH					10	WASH	BRS-L360(001)	
DESIGNER: AR					JOB NUMBER		22-03	
CHECKED: HC							TA-7561	
PROJ. ENG.: JDWA								
APPROVED BY:								
8/25/2025	REV DATE	REVISION			BY	APP'D		

REGION NO.	STATE	FEDERAL AID PROJECT NO.	
10	WASH	BRS-L360(001)	
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		TA-7561	



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Lacey, WA 98516

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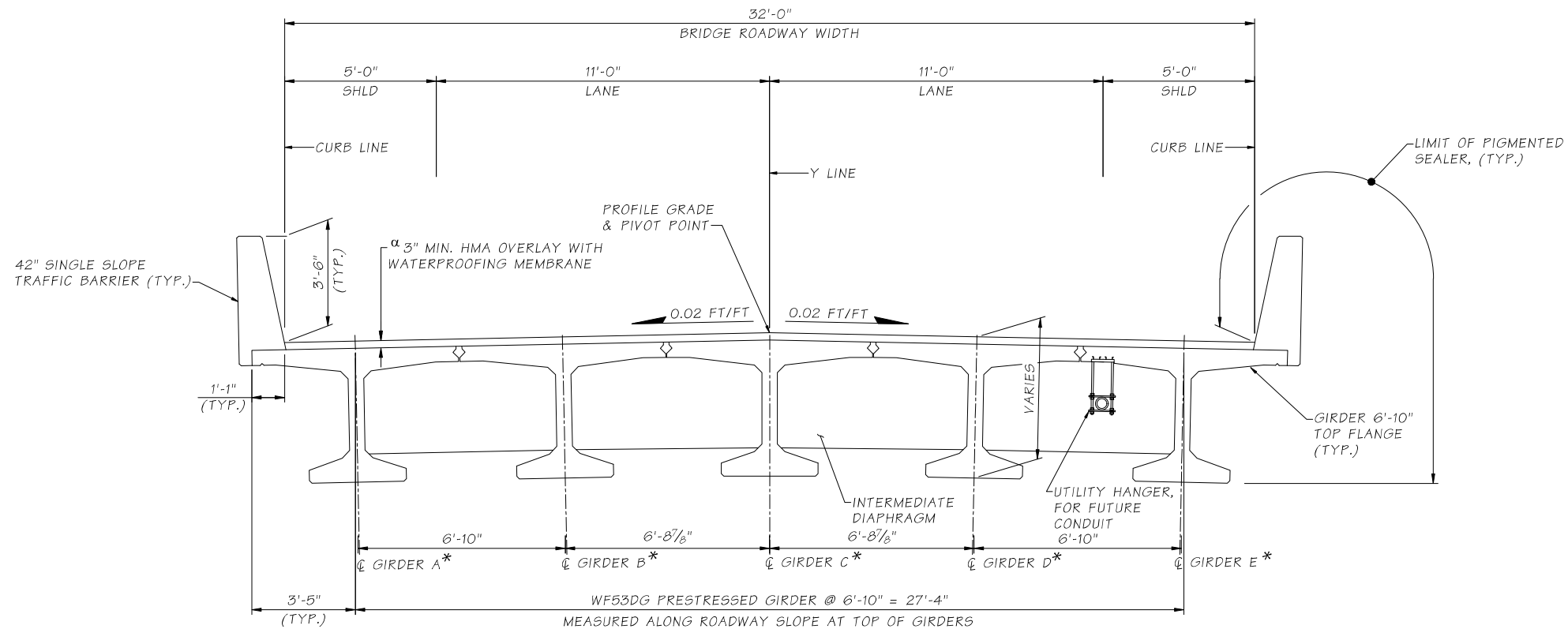
8/25/2025
PLOT DATE



WALLULA AVENUE BRIDGE

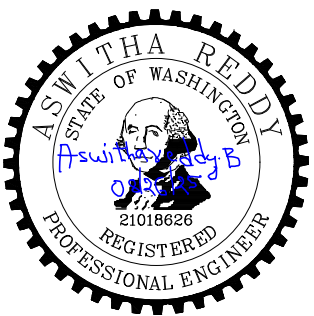
FRAMING PLAN

SHEET
20
20 OF 47



TYPICAL SECTION

- * ϕ GIRDER NORMAL TO ROADWAY SLOPE
- α FOR WATERPROOFING MEMBRANE PLACEMENT EXTENTS
SEE SHEET 33, "APPROACH EXPANSION ANCHOR - METHOD A" DETAILS
- # SEE SHEET 34 FOR UTILITY HANGER DETAILS



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DRAWN: MH					
DESIGNER: AR					
CHECKED: HC					
PROJ. ENG.: JDWA					
APPROVED BY:					
8/25/2025	REV DATE	REVISION	BY	APP'D	

REGION NO.	STATE
10	WASH
JOB NUMBER	
22-03	

FEDERAL AID PROJECT NO.
BRS-L360(001)
TA-7561



Walla Walla County
PUBLIC WORKS DEPARTMENT
 8/25/2025
 PLOT DATE

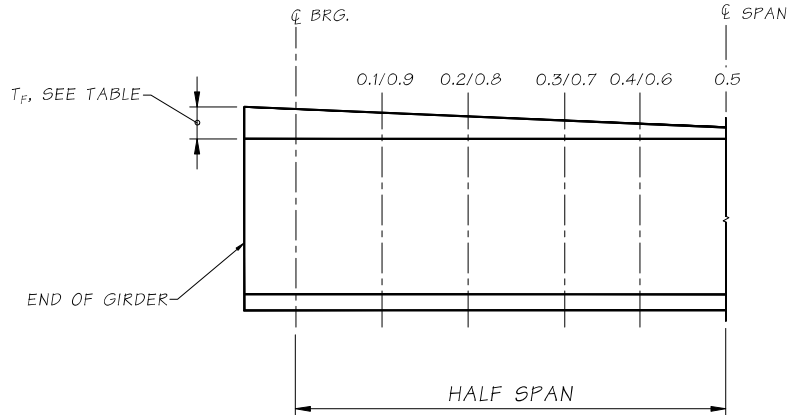


WALLULA AVENUE BRIDGE

TYPICAL SECTION

SHEET
21
 21 OF 47

GIRDER SCHEDULE																																		
SPAN	GIRDER	GIRDER SERIES	TOP FLANGE WIDTH W	PLAN LENGTH (ALONG GIRDER GRADE) (SEE GIRDER NOTE 1)	GIRDER END DETAILS						MIN. CONC. COMP. STRENGTH		NUMBER OF STRANDS (SEE GIRDER NOTE 2)		LOCATION OF C.G. STRANDS			STRAIGHT STRANDS TO EXTEND		MIDSPAN VERTICAL DEFLECTION D		REINFORCEMENT DETAILS						SHIPPING AND HANDLING DETAILS						
					END 1 TYPE	END 2 TYPE	Ld	θ1	θ2	P1	P2	28-DAYS F'c (ksi)	RELEASE F'CI (ksi)	STRAIGHT	HARPED	E	F℄	Fo	END 1			END 2	ZONE 1	ZONE 2		ZONE 3		MAXIMUM MIDSPAN VERTICAL DEFLECTION AT SHIPPING	L	L1	L2	Kθ MINIMUM SHIPPING SUPPORT ROTATIONAL SPRING CONSTANT	Wcc MINIMUM SHIPPING SUPPORT CNTR.-TO-CNTR. WHEEL SPACING	
																				SPACING	LENGTH			SPACING	LENGTH	SPACING	LENGTH							
1-	A, E	WF53DG	6'-10"	123'-3¼"	A	A	-	90.00	90.00	2'-1½"	2'-1½"	7.80 KSI	6.0 KSI	32	14	3"	4⅝"	9⅝"	5 6 15 16	3 4 17 18	2¾"	6½"	3½"	1¾"	6"	1'-0"	9"	4½"	6⅝"	3'-0"	4'-10⅝"	4'-10⅝"	40,000.00 KIP-IN/RAD	6'-0"
1-	B, D	WF53DG	6'-10"	123'-3¼"	A	A	-	90.00	90.00	2'-1½"	2'-1½"	7.80 KSI	6.0 KSI	30	14	2⅞"	4⅝"	9⅝"	5 6 15 16	3 4 17 18	2½"	5⅝"	3½"	1¾"	6"	1'-0"	9"	4½"	6⅝"	3'-0"	4'-10⅝"	4'-10⅝"	40,000.00 KIP-IN/RAD	6'-0"
1-	C	WF53DG	6'-10"	123'-3¼"	A	A	-	90.00	90.00	2'-1½"	2'-1½"	7.80 KSI	6.0 KSI	30	14	2⅞"	4⅝"	10"	5 6 15 16	3 4 17 18	2½"	6⅝"	3½"	1¾"	6"	1'-0"	9"	4½"	6¾"	3'-0"	4'-10⅝"	4'-10⅝"	40,000.00 KIP-IN/RAD	6'-0"



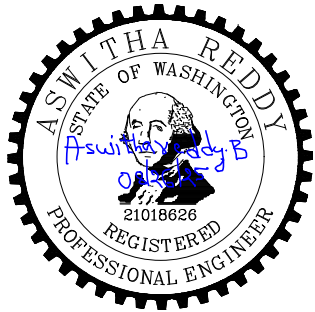
GIRDER TOP FLANGE THICKENING DETAIL
(AT GIRDER CASTING)

SPAN	TOP FLANGE THICKNESS, T_F^*												
	GIR. 10TH PT.												
	END OF GIRDER	℄ BRG.	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	℄ BRG.	END OF GIRDER
1	10 $\frac{3}{8}$ "	10 $\frac{1}{4}$ "	9 $\frac{3}{8}$ "	8 $\frac{5}{8}$ "	7 $\frac{1}{2}$ "	6 $\frac{7}{8}$ "	6"	6 $\frac{7}{8}$ "	7 $\frac{1}{2}$ "	8 $\frac{3}{8}$ "	9 $\frac{3}{8}$ "	10 $\frac{1}{4}$ "	10 $\frac{3}{8}$ "

* AT GIRDER C ADJUST TOP FLANGE TO ACCOUNT FOR GIRDER CROSS SLOPE

GIRDER NOTES:

- PLAN LENGTH SHALL BE INCREASED AS NECESSARY TO COMPENSATE FOR SHORTENING DUE TO PRESTRESS AND SHRINKAGE.
- ALL PRETENSIONED AND TEMPORARY STRANDS SHALL BE 0.6"Ø AASHTO M203 GRADE 270 LOW RELAXATION STRANDS, JACKED TO 202.5 KSI (43.94 KIPS PER STRAND).
- STRUCTURAL STEEL SHAPES AND ASSEMBLIES SHALL BE ASTM A36. THEY SHALL BE PAINTED WITH A PRIMER COAT IN ACCORDANCE WITH STD. SPEC. 6-07.3(9). WELD TIES SHALL BE PAINTED WITH A FIELD PRIMER COAT OF AN ORGANIC ZINC PAINT AFTER FIELD WELDING.
- THE ENTIRE TOP SURFACE OF GIRDERS SHALL BE TEXTURED IN ACCORDANCE WITH 6-02.3(25)H.
- HMA THICKNESS VARIES ALONG LENGTH OF BRIDGE DUE TO PROFILE GRADE AND GIRDER CAMBER. THICKNESS AT ℄ BEARINGS AND ON APPROACH SLABS IS 3.5". CONTRACTOR TO DETERMINE THICKNESS AT 10TH POINTS BASED ON ACTUAL GIRDER CAMBER AT TIME OF GIRDER ERECTION AND SHALL SUBMIT FOR REVIEW.



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DRAWN: MH					
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PROJ. ENG.: JDWA					
APPROVED BY:					
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Walla Walla County
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8/25/2025
PLOT DATE



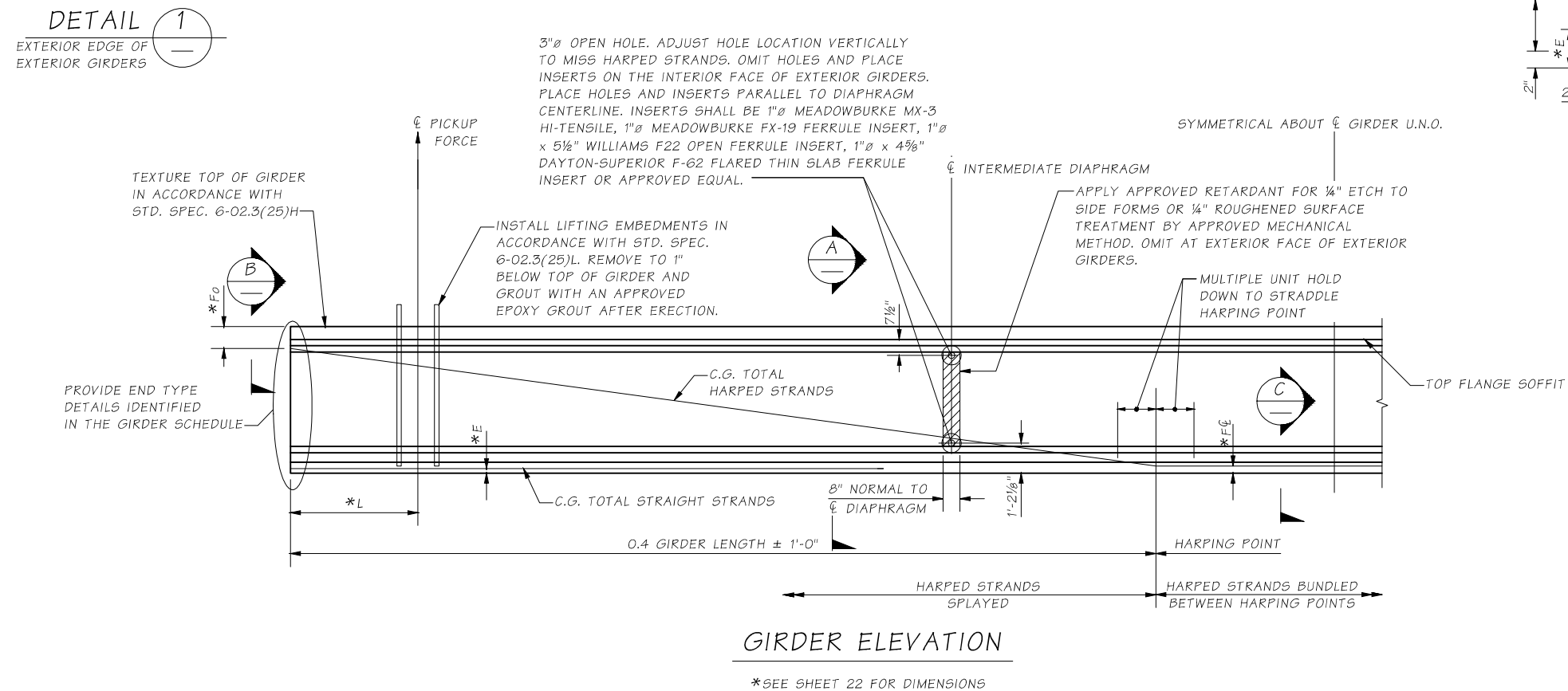
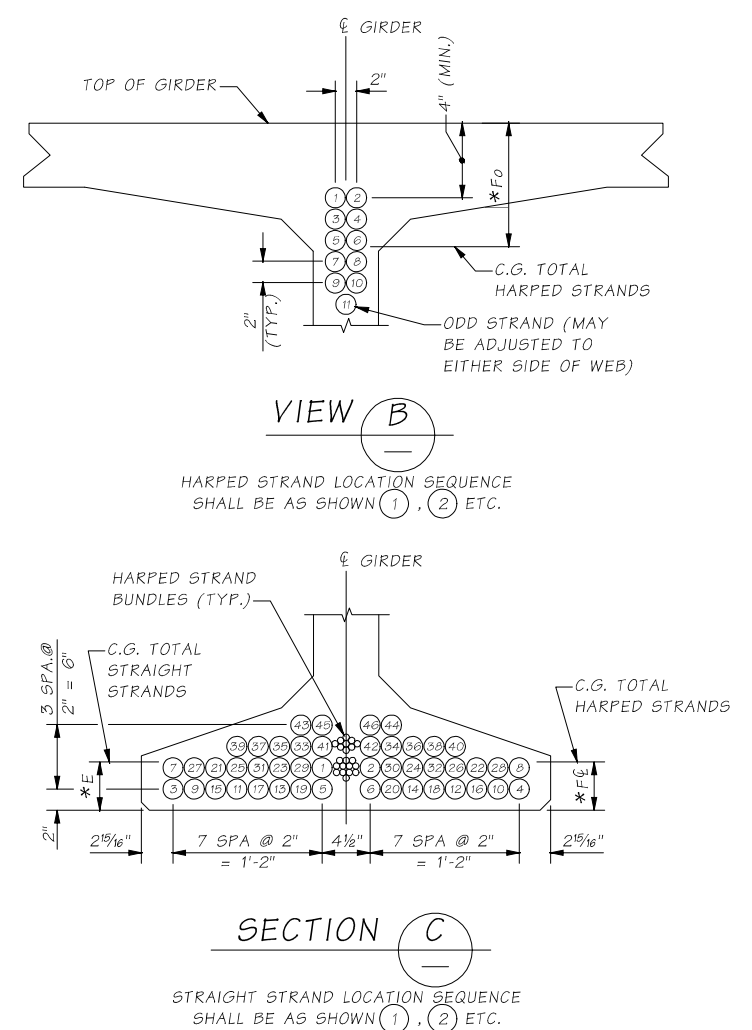
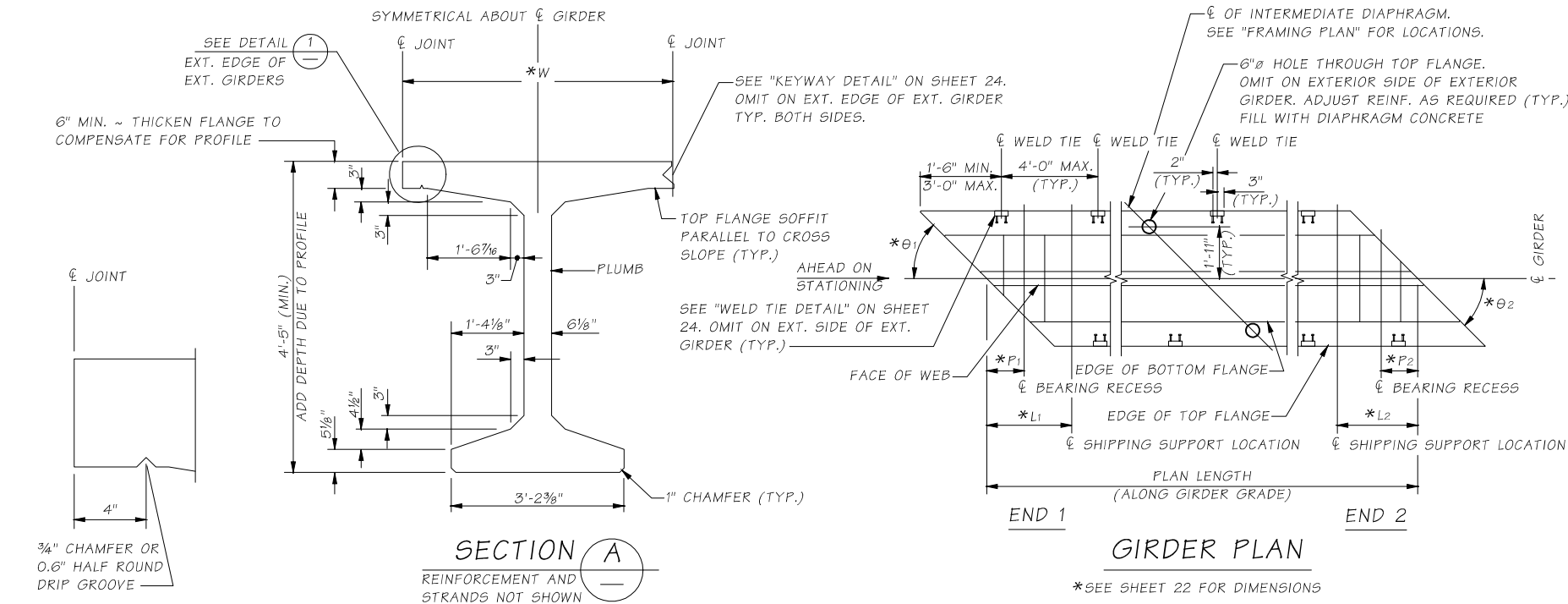
WALLULA AVENUE BRIDGE

GIRDER SCHEDULE

SHEET

22

22 OF 47



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GIRDER DETAILS.dwg			
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CHECKED: HC			
PROJ. ENG.: JDWA			
APPROVED BY:			
9/10/2025	REV DATE	REVISION	BY APP'D

REGION NO.	STATE	FEDERAL AID PROJECT NO.
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JOB NUMBER		
22-03		
		BRS-L360(001)
		TA-7561



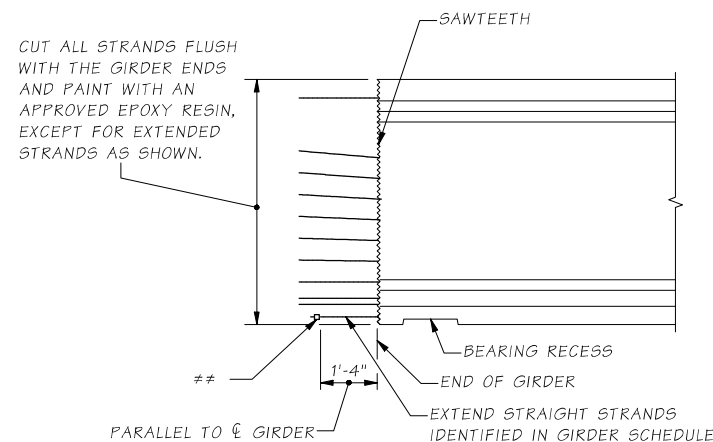
Walla Walla County
PUBLIC WORKS DEPARTMENT
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PLOT DATE



WALLULA AVENUE BRIDGE

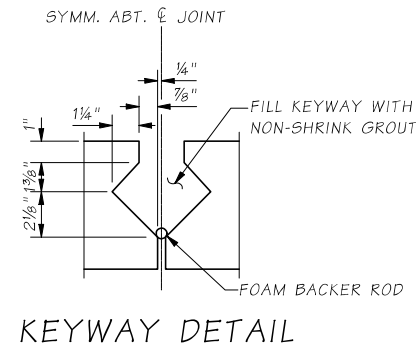
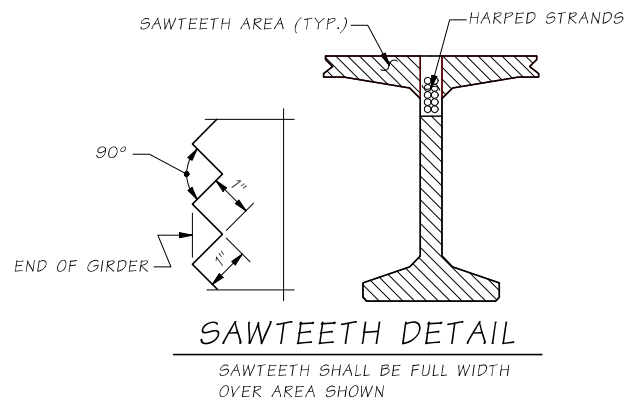
GIRDER DETAIL 1 OF 3

SHEET
23
23 OF 47

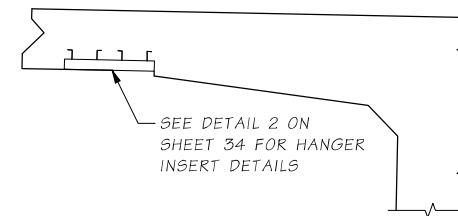


END TYPE A

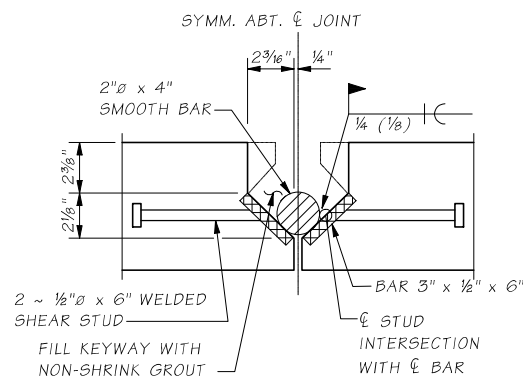
1 1/8"Ø MIN. STRAND CHUCK OR ASTM A108 2 3/4"Ø x 1 1/8" STRAND ANCHOR. ANCHOR STRAND WITH WEDGES BEFORE GIRDER ERECTION. VERIFY WEDGES ARE SEATED TIGHTLY IMMEDIATELY BEFORE PLACING DIAPHRAGM CONCRETE.



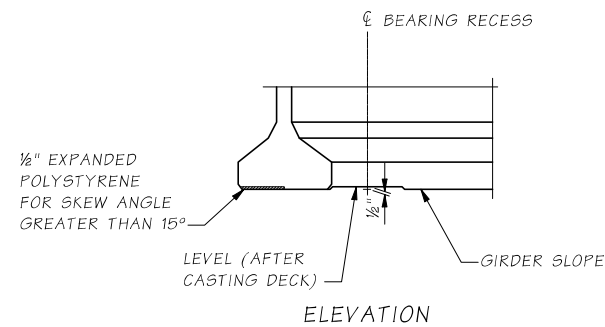
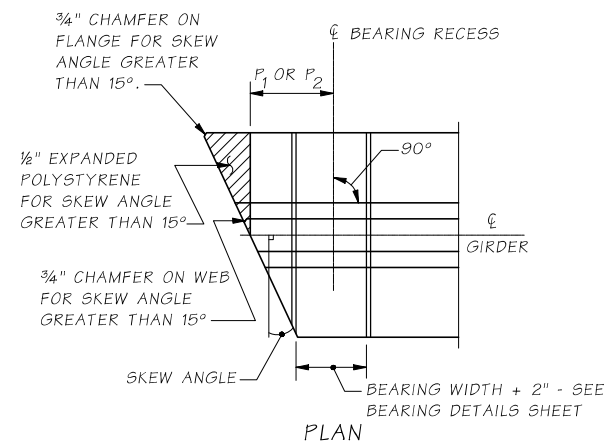
KEYWAY DETAIL



HANGER INSERT DETAIL

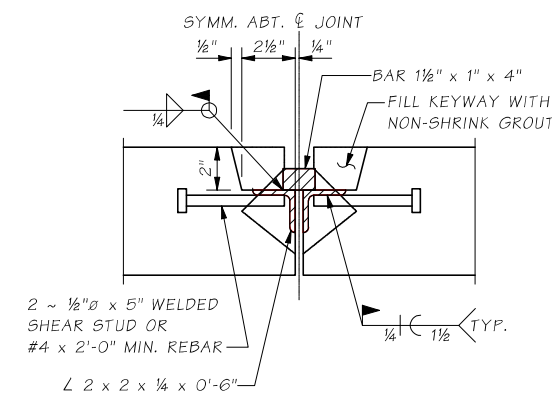


WELD TIE DETAIL

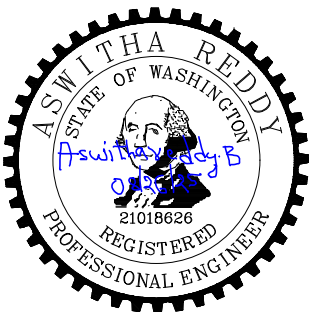


BEARING RECESS AND BOTTOM FLANGE SPALL PROTECTION DETAIL

BEARING RECESS FORMS SHALL BE CONSTRUCTED AND FASTENED TO AVOID GIRDER DAMAGE DURING STRAND RELEASE. REINFORCEMENT NOT SHOWN FOR CLARITY.



ALT. WELD TIE DETAIL



Q:\WA-LACE-EX\Projects\Walla Walla, County\2313 - Wallula Road Bridge - Sub to DEAT02-CADD\Sheets\WALL00PW0001_BR_GIRDER DETAIL.dwg	REGION NO.	STATE	FEDERAL AID PROJECT NO.
DRAWN: MH	10	WASH	
DESIGNER: AR			
CHECKED: HC			
PROJ. ENG.: JDWA			
APPROVED BY:			
8/26/2025	REV DATE	REVISION	BY APP'D

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	TA-7561



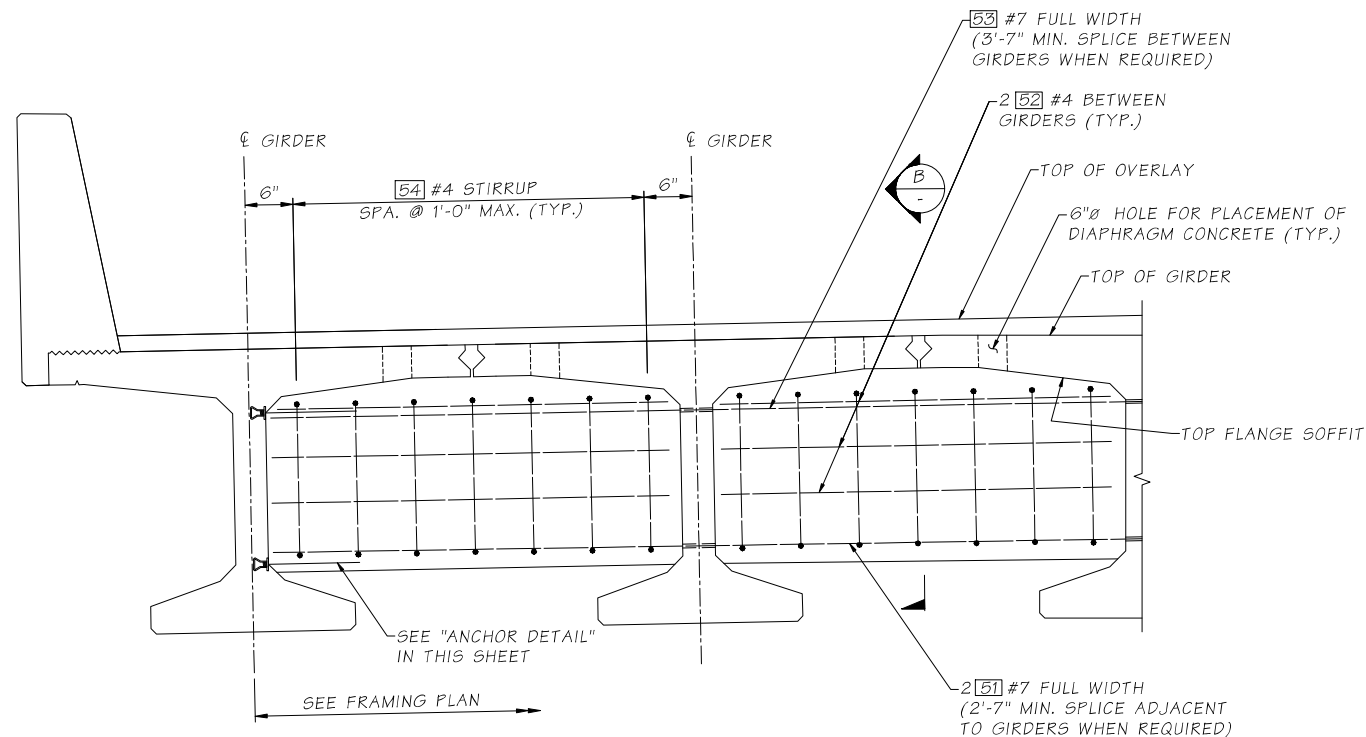
Walla Walla County
PUBLIC WORKS DEPARTMENT
8/26/2025
PLOT DATE



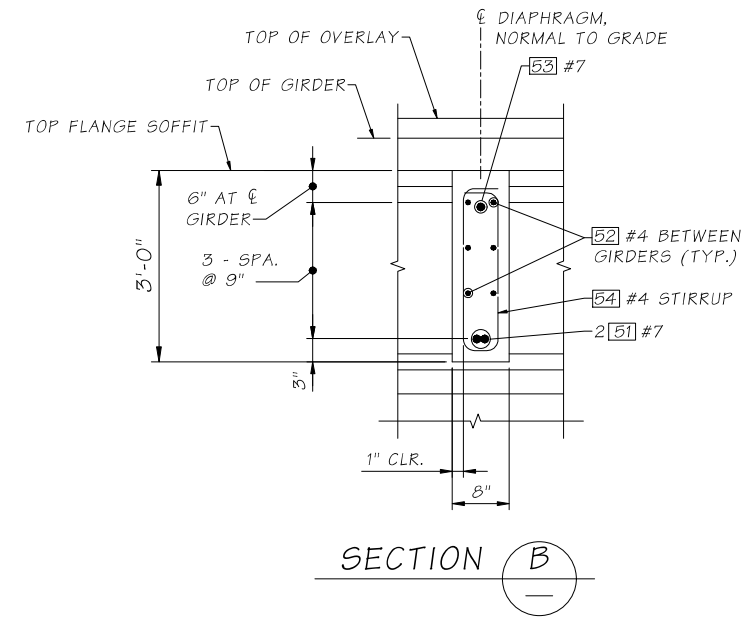
WALLULA AVENUE BRIDGE

GIRDER DETAIL 2 OF 3

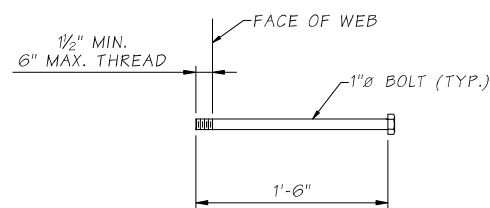
SHEET
24
24 OF 47



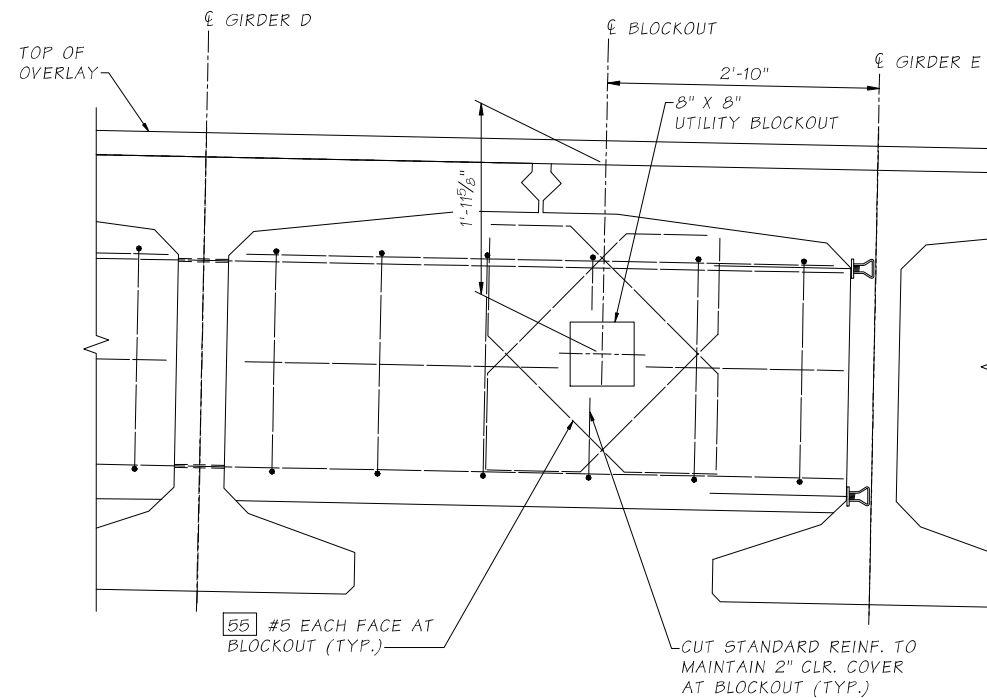
ELEVATION
 INTERMEDIATE DIAPHRAGM
 DIMENSIONS ARE ALONG DIAPHRAGM



SECTION B



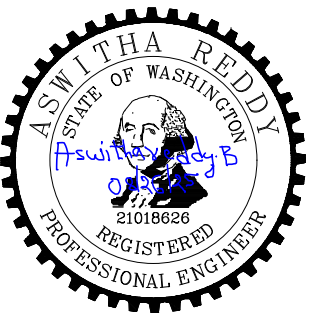
ANCHOR DETAIL
 ASTM A307



UTILITY BLOCKOUT DETAIL

DIAPHRAGM NOTES:

- GIRDERS SHALL BE HELD RIGIDLY IN PLACE WHEN DIAPHRAGMS ARE PLACED.
- IT MAY BE NECESSARY TO THREAD REINFORCING BARS THROUGH HOLES IN GIRDERS PRIOR TO PLACING EXTERIOR GIRDERS.
- LONGITUDINAL DIMENSIONS ARE NORMAL TO SKEW.



C:\WA-LACE-EX\Projects\Walla_Walla_County\2313 - Wallula Road Bridge - Sub to DEAT02-CADD\Sheets\WALL00PW0001_BR_INTERMEDIATE DIAPHRAGM DETAILS.dwg					REGION NO.	STATE	FEDERAL AID PROJECT NO.	
DRAWN: MH					10	WASH	BRS-L360(001)	
DESIGNER: AR					JOB NUMBER		TA-7561	
CHECKED: HC					22-03			
PROJ. ENG.: JDWA								
APPROVED BY:								
8/21/2025	REV DATE	REVISION			BY	APP'D		

REGION NO.	STATE	FEDERAL AID PROJECT NO.	
10	WASH	BRS-L360(001)	
JOB NUMBER		TA-7561	
22-03			

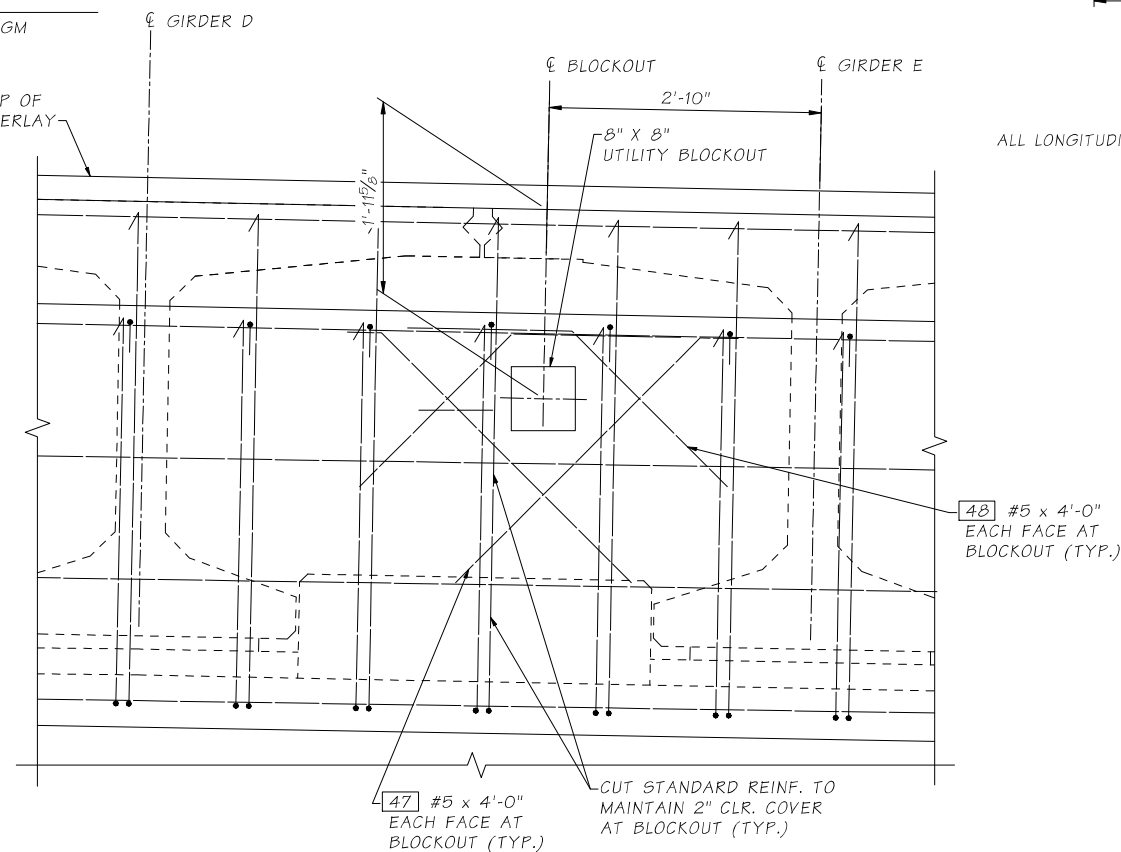
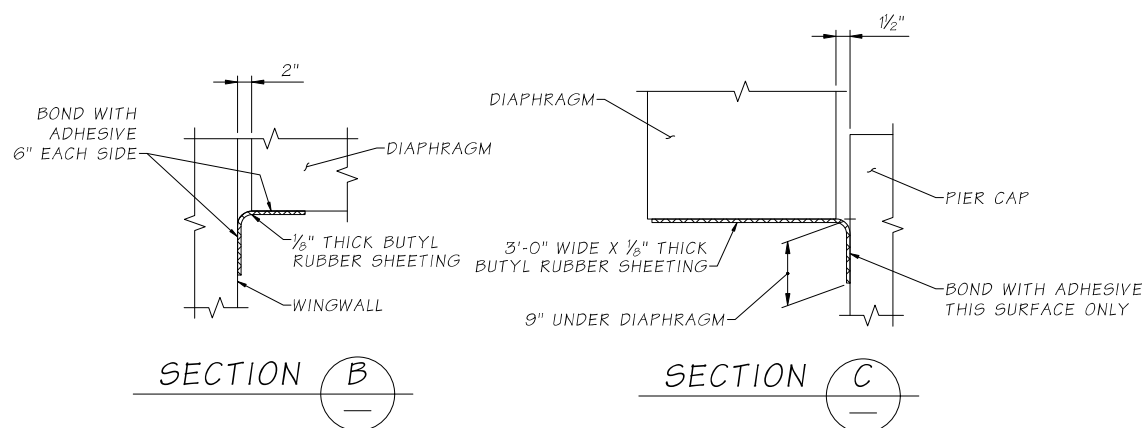
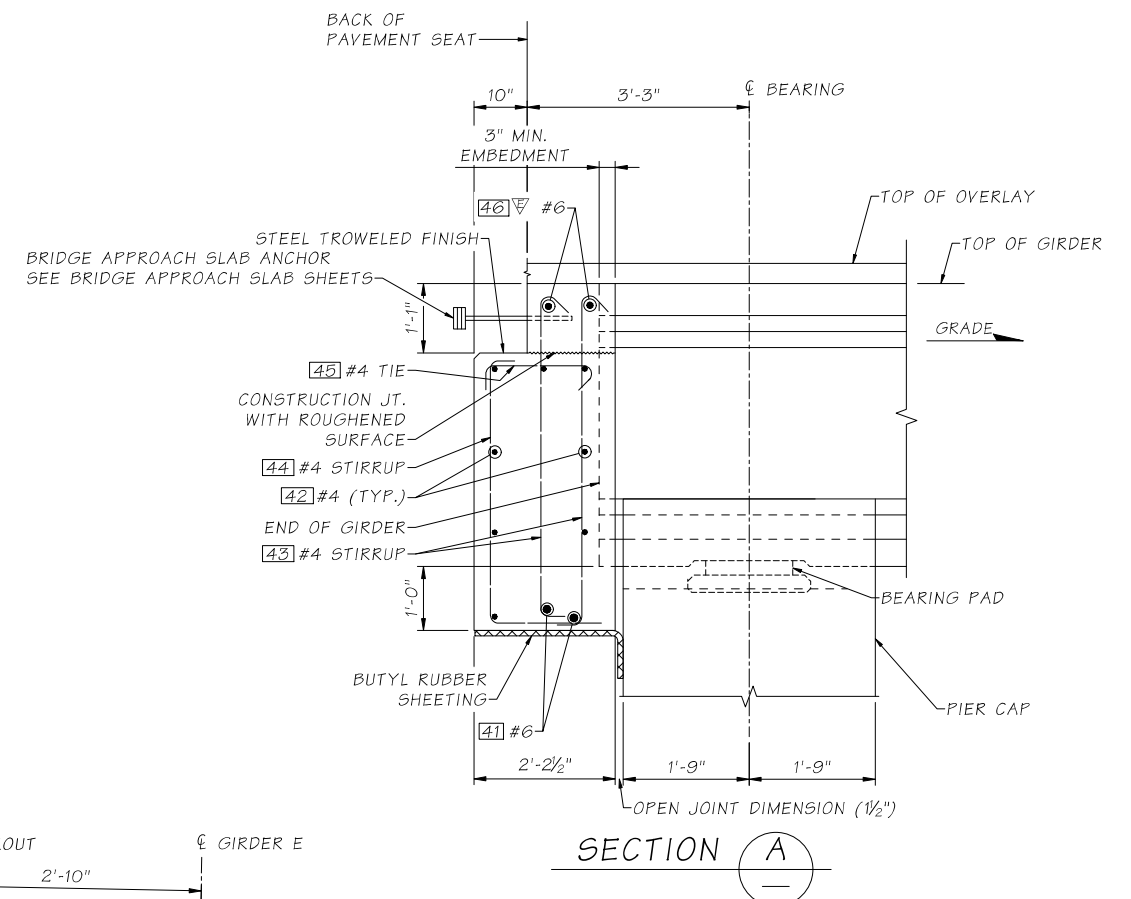
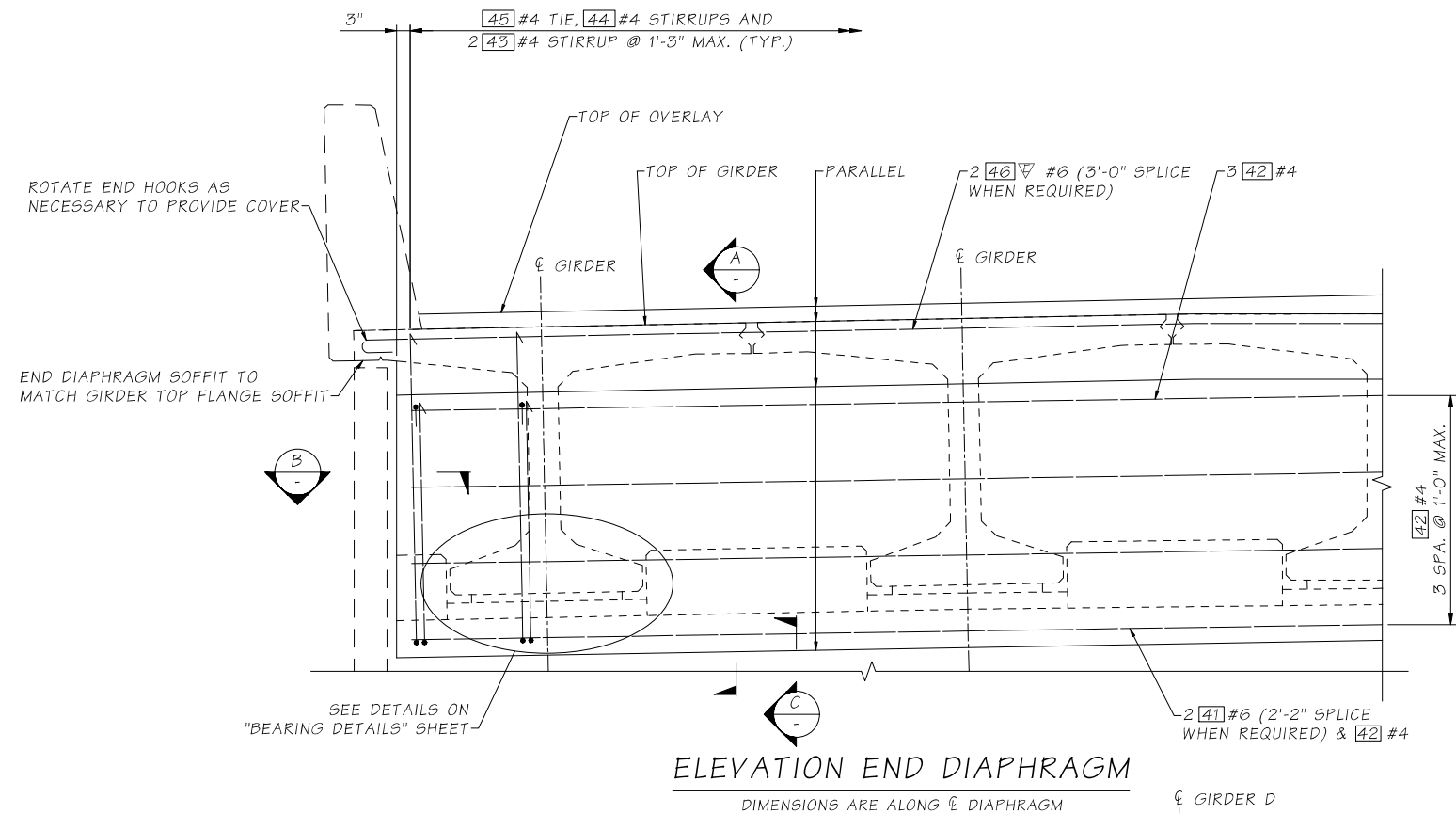


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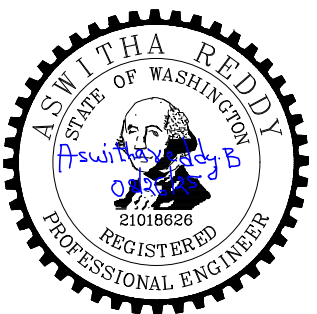
WALLULA AVENUE BRIDGE

INTERMEDIATE DIAPHRAGM DETAILS



DIAPHRAGM NOTES:

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



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CHECKED: HC				
PROJ. ENG.: JDWA				
APPROVED BY:				
7/29/2025	REV DATE	REVISION	BY	APP'D

REGION NO.	STATE	FEDERAL AID PROJECT NO.
10	WASH	
JOB NUMBER		
22-03		
		BRS-L360(001)
		TA-7561



Walla Walla County

PUBLIC WORKS DEPARTMENT

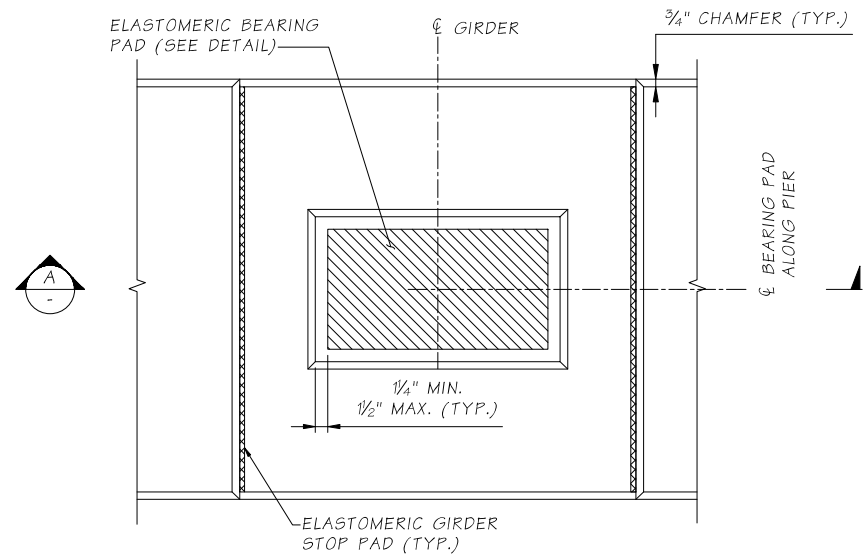
8/25/2025
PLOT DATE



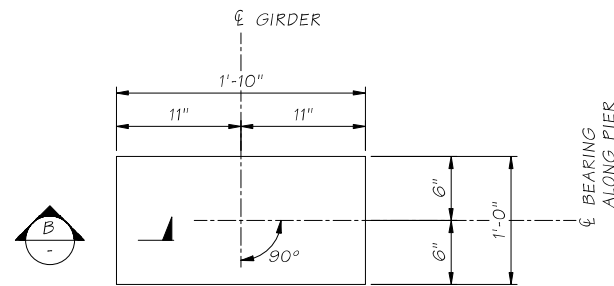
WALLULA AVENUE BRIDGE

END DIAPHRAGM DETAILS

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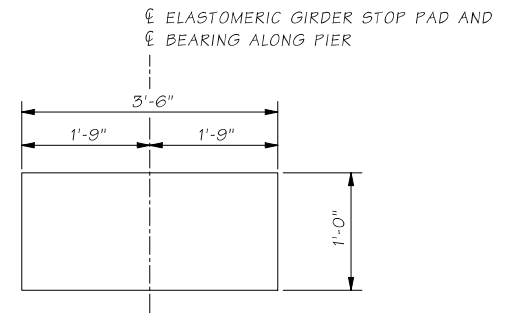
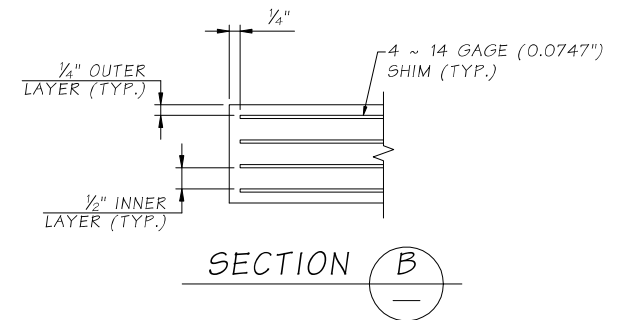


GROUT PAD DETAIL
GIRDER NOT SHOWN FOR CLARITY



ELASTOMERIC BEARING PAD

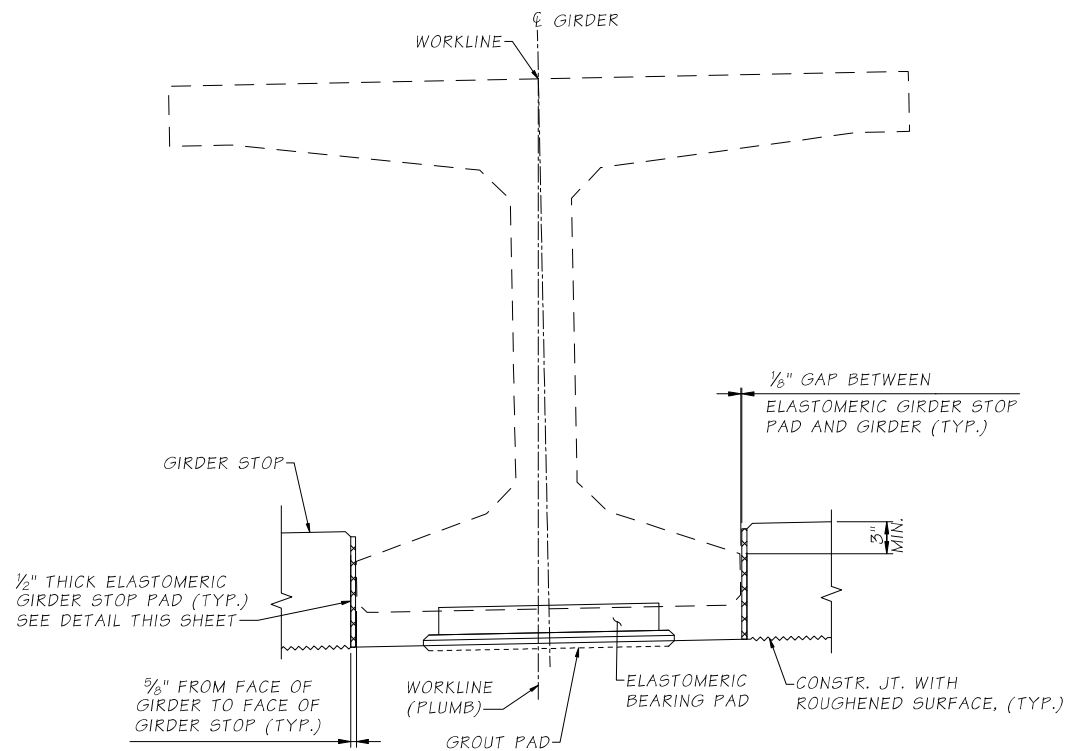
LAMINATED ELASTOMERIC BEARING PAD
(4 SHIMS).



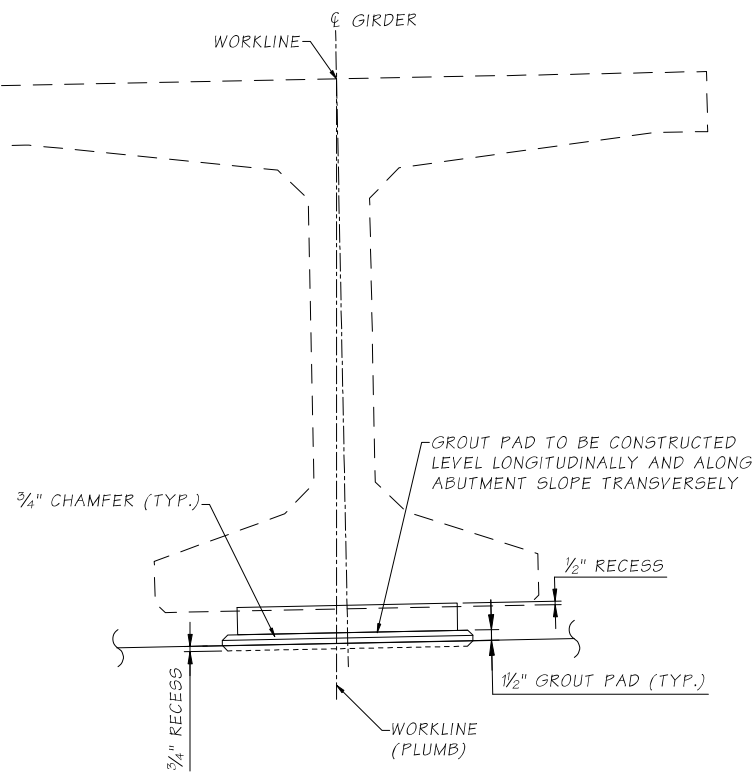
ELASTOMERIC GIRDER STOP PAD

SHEAR MODULUS = 165 PSI

BEARING DESIGN TABLE AASHTO METHOD B DESIGN	
SERVICE - I LIMIT STATE	
DEAD LOAD (DL) REACTION	146 KIPS
LIVE LOAD REACTION (W/O IMPACT)	42 KIPS
UNLOADED HEIGHT	2.30 IN
LOADED HEIGHT (DL)	2.28 IN
SHEAR MODULUS	165 PSI



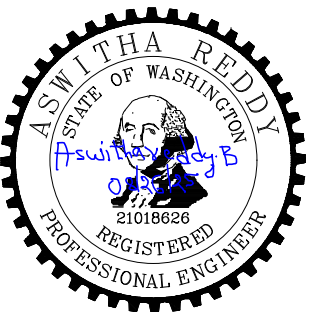
SECTION A



GROUT PAD ELEVATION

NOTES:

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



DRAWN: MH DESIGNER: AR CHECKED: HC PROJ. ENG.: JDWA APPROVED BY: 8/21/2025	REV DATE REVISION BY APP'D	REGION NO. 10 JOB NUMBER 22-03	STATE WASH FEDERAL AID PROJECT NO. BRS-L360(001) TA-7561
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REGION NO. 10 JOB NUMBER 22-03	STATE WASH FEDERAL AID PROJECT NO. BRS-L360(001) TA-7561
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WALLULA AVENUE BRIDGE

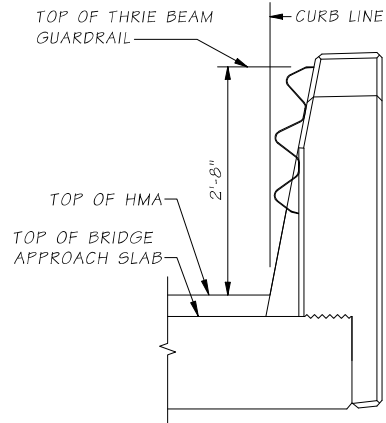
GIRDER BEARING DETAILS

SHEET
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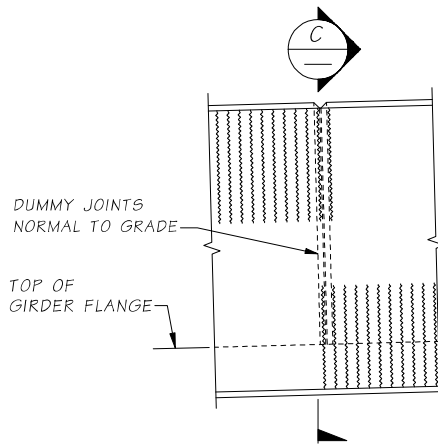
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SHEET
29
OF 47

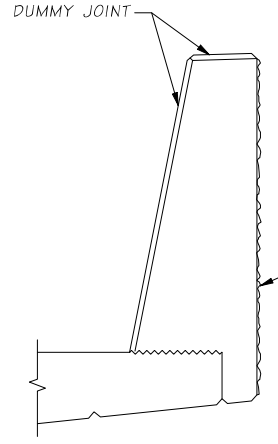


END VIEW

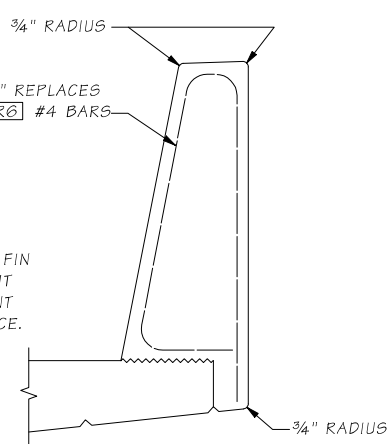
THRIE BEAM SHOWN WITH "D" CONNECTION (SEE STD. PLAN C-7a)



VIEW A
29



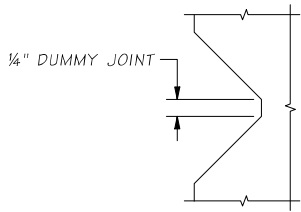
SECTION C
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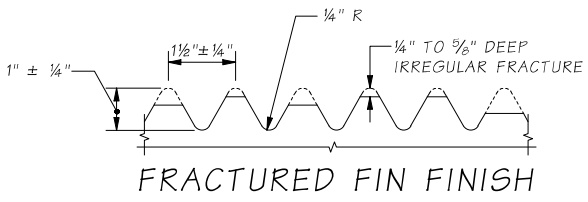
SLIPFORM ALTERNATE

SEE "TYPICAL SECTION - TRAFFIC BARRIER", ON SHEET 29, FOR ADDITIONAL DETAILS.

THE CONTRACTOR IS ADVISED THAT THE SLIPFORM CONSTRUCTION METHOD IS A PATENTED PROPRIETARY PROCESS FOR BARRIERS WITH A FRACTURED FIN FINISH.

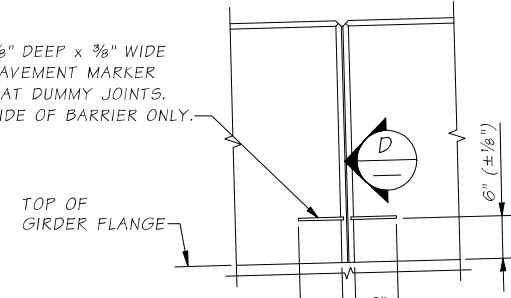


DUMMY JOINT DETAIL

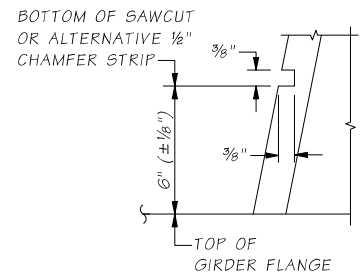


FRACTURED FIN FINISH

PROVIDE 3/8" DEEP x 3/8" WIDE SAWCUT PAVEMENT MARKER REQUIRED AT DUMMY JOINTS. TRAFFIC SIDE OF BARRIER ONLY.



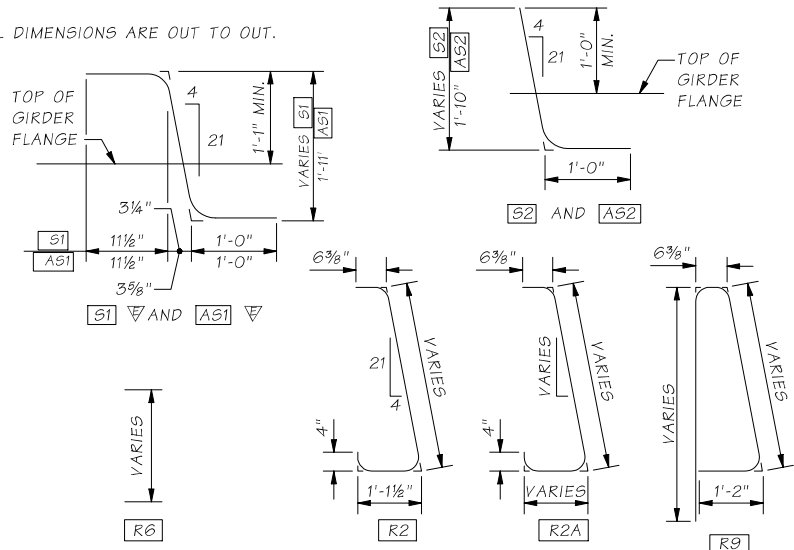
VIEW B
29



SECTION D
PAVEMENT MARKER —

BENDING DIAGRAM

ALL DIMENSIONS ARE OUT TO OUT.



C:\WA-LACE-EX\Projects\Walla Walla, County\2313 - Wallula Road Bridge - Sub to DEAT02-CADD\Sheets\WALL00PW0001_BR_BARRIER BAILING DETAILS.dwg

DRAWN: MH					
DESIGNER: AR					
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REGION NO.	STATE	FEDERAL AID PROJECT NO.
10	WASH	BRS-L360(001)
JOB NUMBER		TA-7561
22-03		

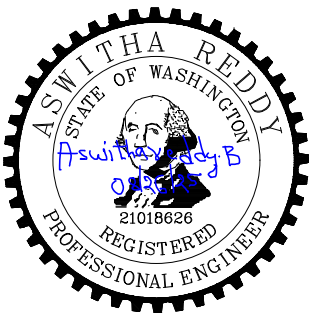


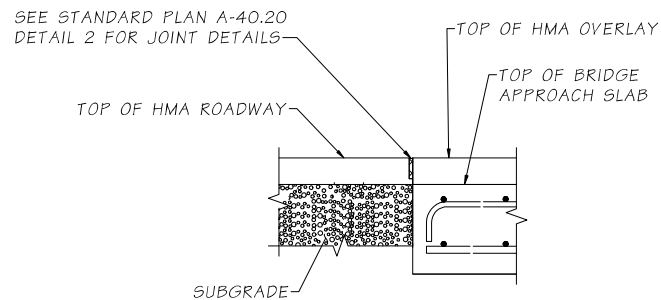
Walla Walla County
PUBLIC WORKS DEPARTMENT
8/25/2025
PLOT DATE



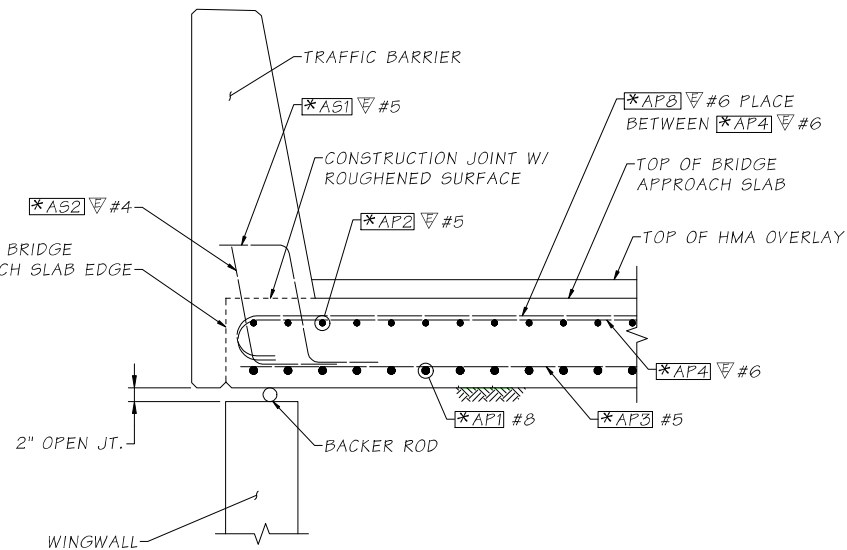
WALLULA AVENUE BRIDGE

TRAFFIC BARRIER - SINGLE SLOPE 42"
DETAILS 2 OF 2



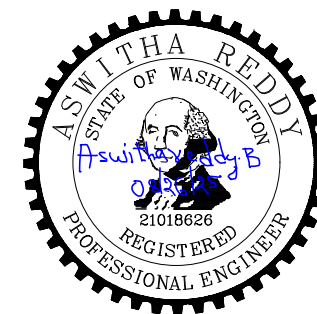


HMA ROADWAY JOINT DETAIL



SECTION A 31

*SEE SHEET 36 FOR BENDING DIAGRAM



\\WA1ACE-EX\Projects\Walla Walla, County\2313 - Wallula Road Bridge - Sub to DEA\02-CADD\Sheets\WALL00P\W0001_BR_				
APPROACH SLAB DETAILS.dwg				
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APPROVED BY:				
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10	WASH	BRS-L360(001)		TA-7561	
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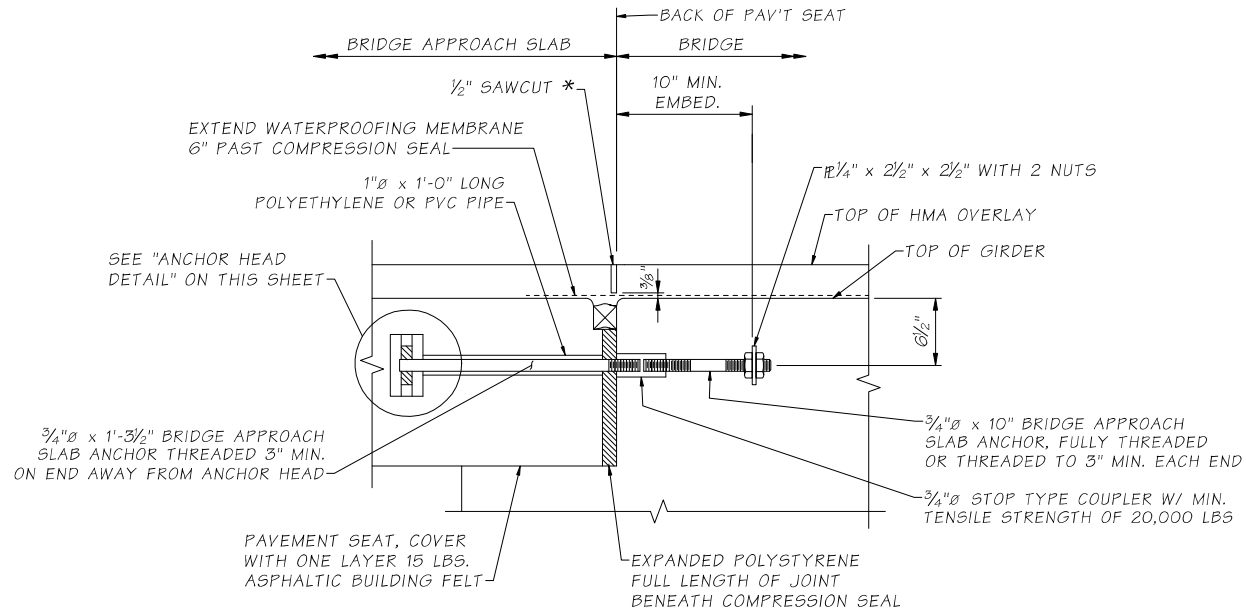
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PUBLIC WORKS DEPARTMENT
8/25/2025
PLOT DATE



WALLULA AVENUE BRIDGE

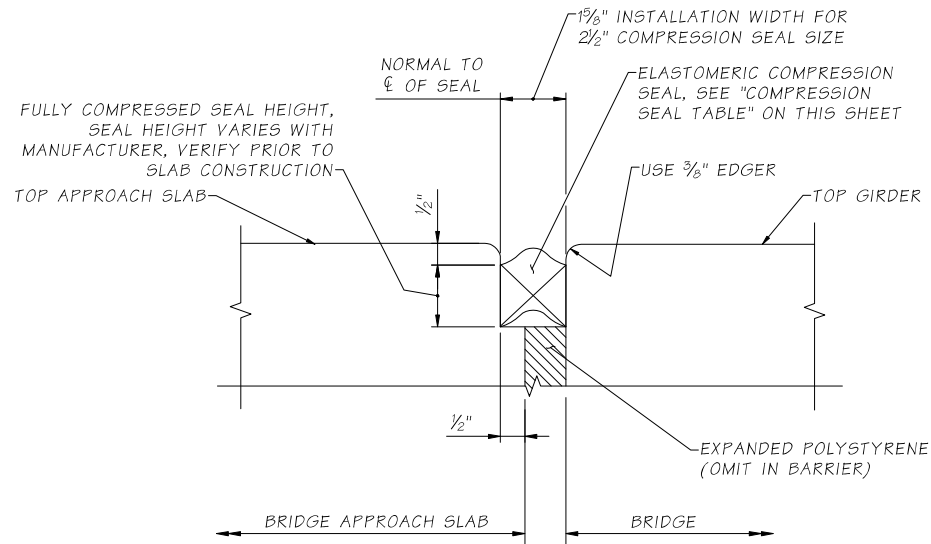
APPROACH SLAB DETAILS 2 OF 3

SHEET
32
32 OF 47



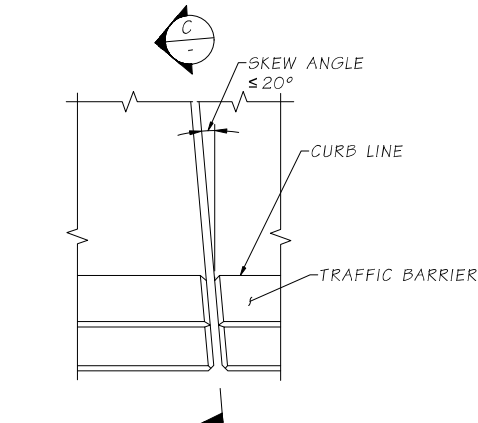
APPROACH EXPANSION ANCHOR - METHOD A

* SAWCUT SHALL CONFORM TO STD. SPEC. SECTION 5-05.3(8) AND SEALED IN ACCORDANCE WITH STD. SPEC. SECTION 5-05.3(8) SAWCUT SHALL BE FULL WIDTH FROM CURB TO CURB ALONG BACK OF PAV'T SEAT.

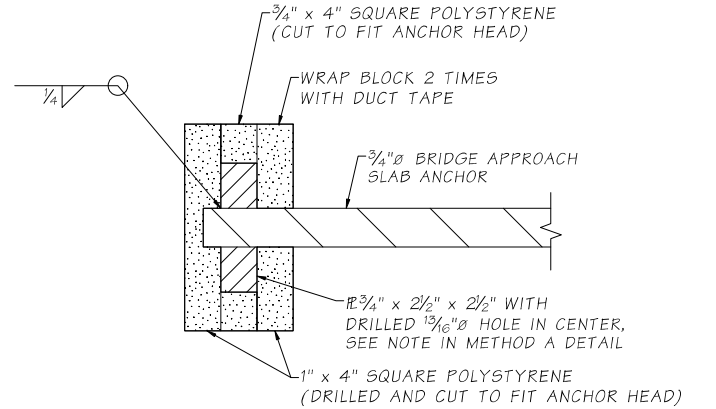


COMPRESSION SEAL DETAIL

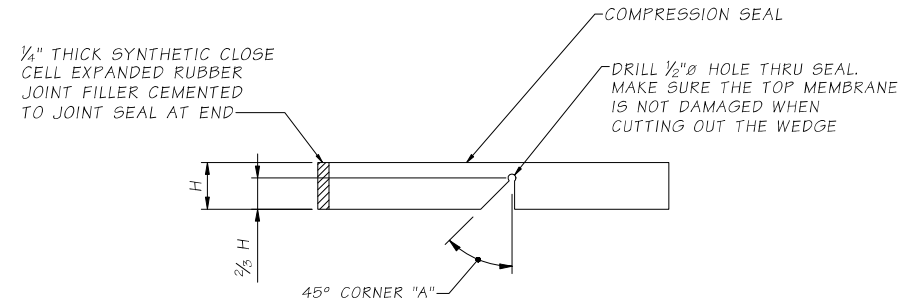
EXPANSION JOINT AT BACK OF PAVEMENT SEAT
HMA OVERLAY AND WATERPROOF MEMBRANE NOT SHOWN



PLAN
EXPANSION JOINT



ANCHOR HEAD DETAIL

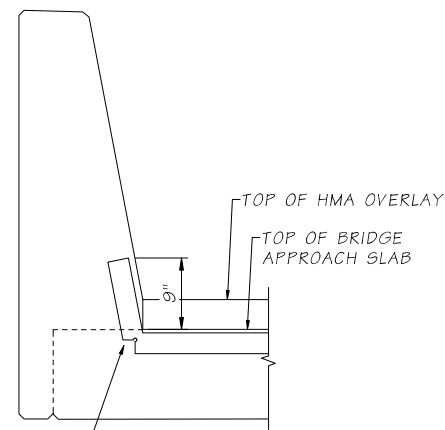


SEAL CUTTING DETAIL

COMPRESSION SEAL TABLE

D.S. BROWN		WATSON BOWMAN ACME	
SEAL	WIDTH	SEAL	WIDTH
CV-2502	2 1/2	WA-250	2 1/2

TESTING SHALL BE PER ASTM D 2628 PRIOR TO USE.

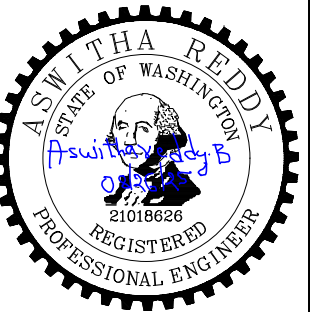


CORNER "A"
SEE "SEAL CUTTING DETAIL"

SECTION C

GENERAL NOTES:

- ALL METAL PARTS OF THE APPROACH EXPANSION ANCHOR SHALL RECEIVE ONE COAT OF PAINT CONFORMING TO STANDARD SPECIFICATION SECTION 9-08.1(2)F OR BE GALVANIZED IN ACCORDANCE WITH AASHTO M 232.
- BRIDGE APPROACH SLAB ANCHORS SHALL BE INSTALLED PARALLEL TO ROADWAY AND TO EACH OTHER.



C:\WA-LACE-EX\Projects\Walla Walla, County\2313 - Wallula Road Bridge - Sub to DEAT02-CADD\Sheets\WALL00PW0001_BR_APPROACH SLAB DETAILS.dwg				
DRAWN: MH				
DESIGNER: AR				
CHECKED: HC				
PROJ. ENG.: JDWA				
APPROVED BY:				
8/25/2025	REV DATE	REVISION	BY	APP'D

REGION NO.	STATE	FEDERAL AID PROJECT NO.
10	WASH	
JOB NUMBER		
22-03		
		BRS-L360(001)
		TA-7561



Walla Walla County
PUBLIC WORKS DEPARTMENT
8/25/2025
PLOT DATE



WALLULA AVENUE BRIDGE

APPROACH SLAB DETAILS 3 OF 3

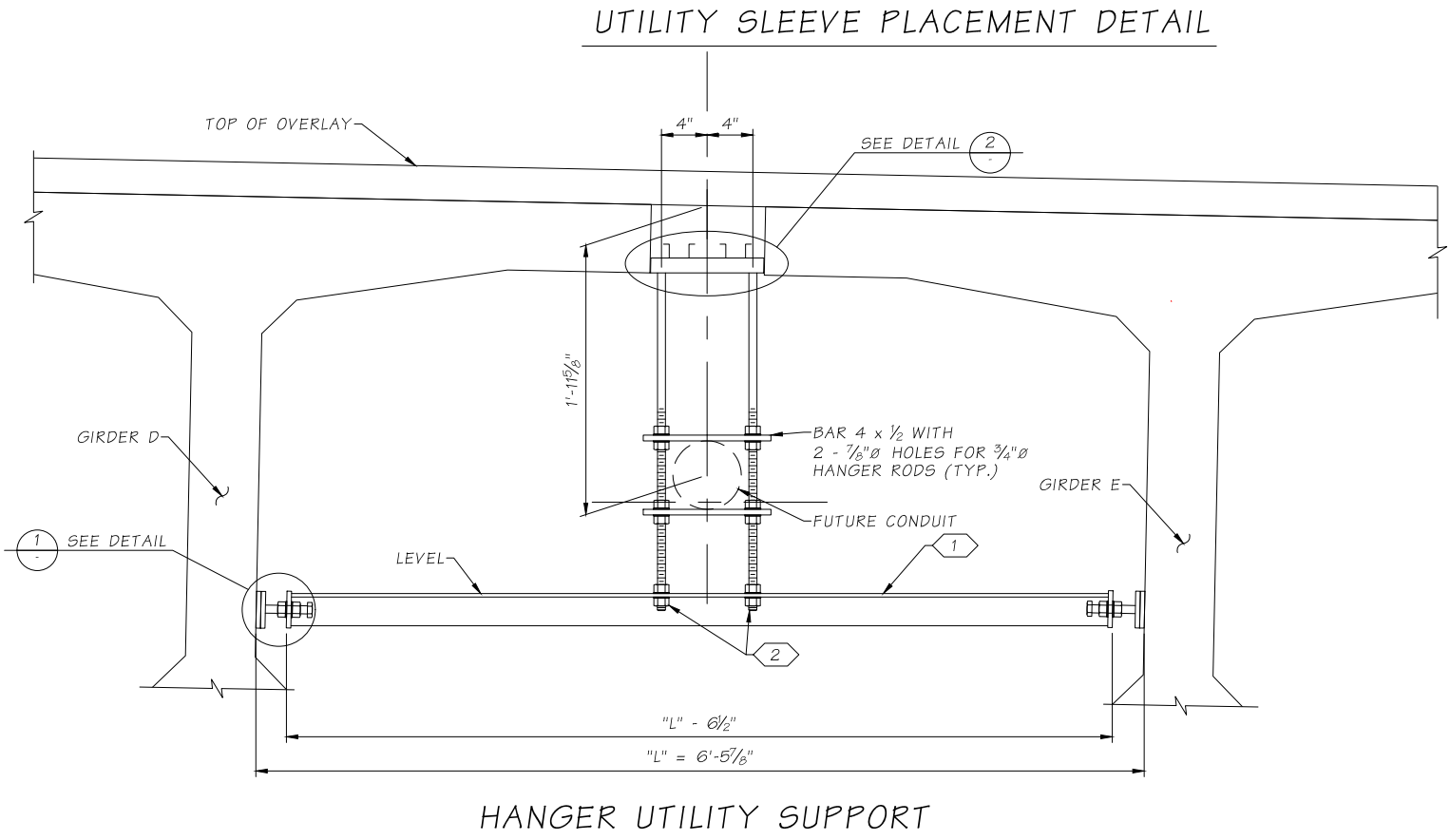
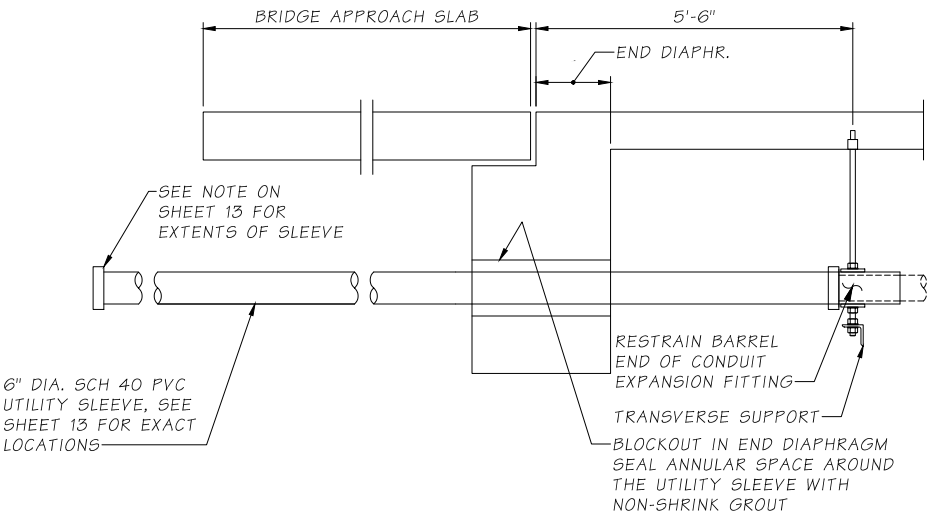
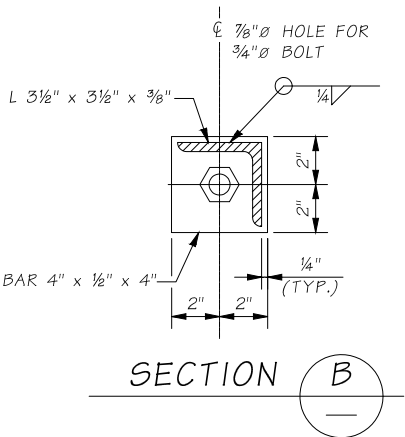
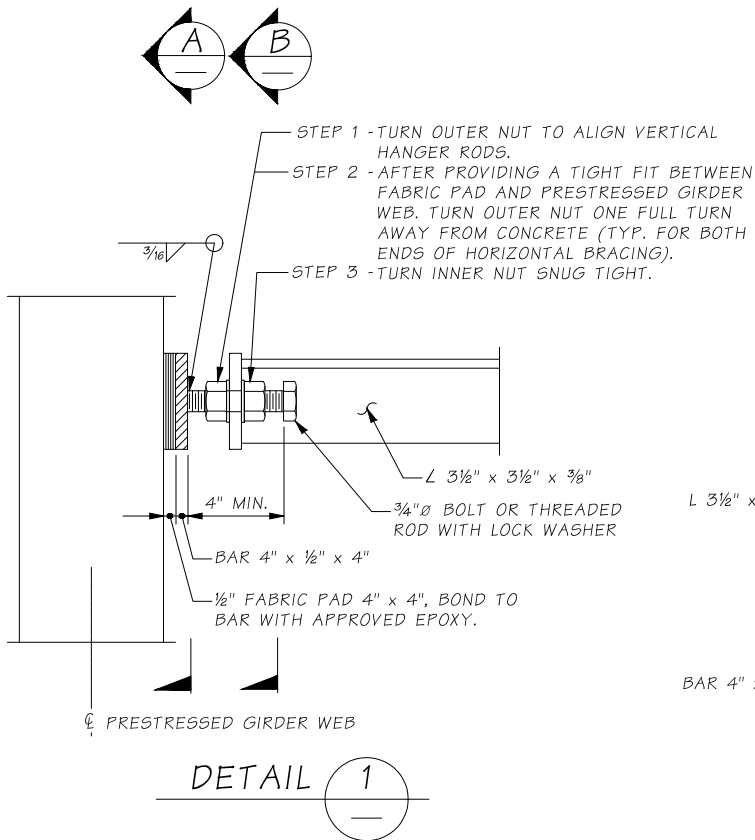
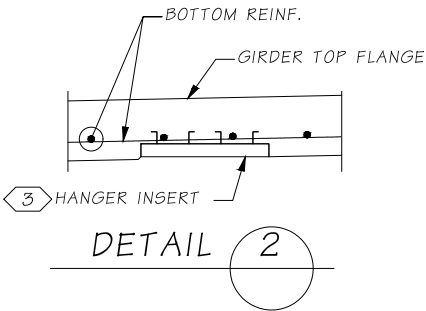
SHEET
33
33 OF 47

GENERAL NOTES:

1. ALL MATERIALS SHALL BE GALVANIZED AFTER FABRICATION PER AASHTO M 111 OR AASHTO M 232, SEE SPECIAL PROVISIONS

NOTES:

- 1
- L 3 1/2" x 3 1/2" x 3/8" WITH 2 - 7/8"Ø HOLES FOR 3/4"Ø HANGER RODS AT EVERY OTHER VERTICAL SUPPORT, NEAR PIERS, AND AT EXPANSION JOINTS
- 2
- 3/4"Ø GALV. HANGER RODS WITH 8 HEX HEAD NUTS, STD. WASHERS, AND LOCK WASHERS.
- 3
- COOPER B-LINE B22-I-12, POWERSTRUT PS 349 OR UNISTRUT P3253, WITH SPRING NUT (TYP.). CHASE THREADS ON HANGER ROD FOR THREAD COMPATIBILITY WITH SPRING NUT. INSERT TO BE INSTALLED LEVEL LONGITUDINALLY AND TRANSVERSELY. PLACE INSERT TO PROVIDE FOR TRANSVERSE ADJUSTMENT OF HANGER RODS. HANGER RODS SHALL NOT BE WITHIN 2" OF THE END OF THE INSERT. TWO INSERTS MAY BE USED TO ACCOMMODATE SUPERELEVATION.



DRAWN: DRFO				
DESIGNER: JXLE				
CHECKED: EJF				
PROJ. ENG.: JDWA				
APPROVED BY:				
8/20/2025	REV DATE	REVISION	BY	APP'D

REGION NO.	STATE	FEDERAL AID PROJECT NO.
10	WASH	
JOB NUMBER		
22-03		

DAVID EVANS
AND ASSOCIATES INC.
508 N Howard St Ste 300
Spokane, WA 99201
Phone: 509.327.8897

Walla Walla County
PUBLIC WORKS DEPARTMENT



WALLULA AVENUE BRIDGE

UTILITY DETAILS

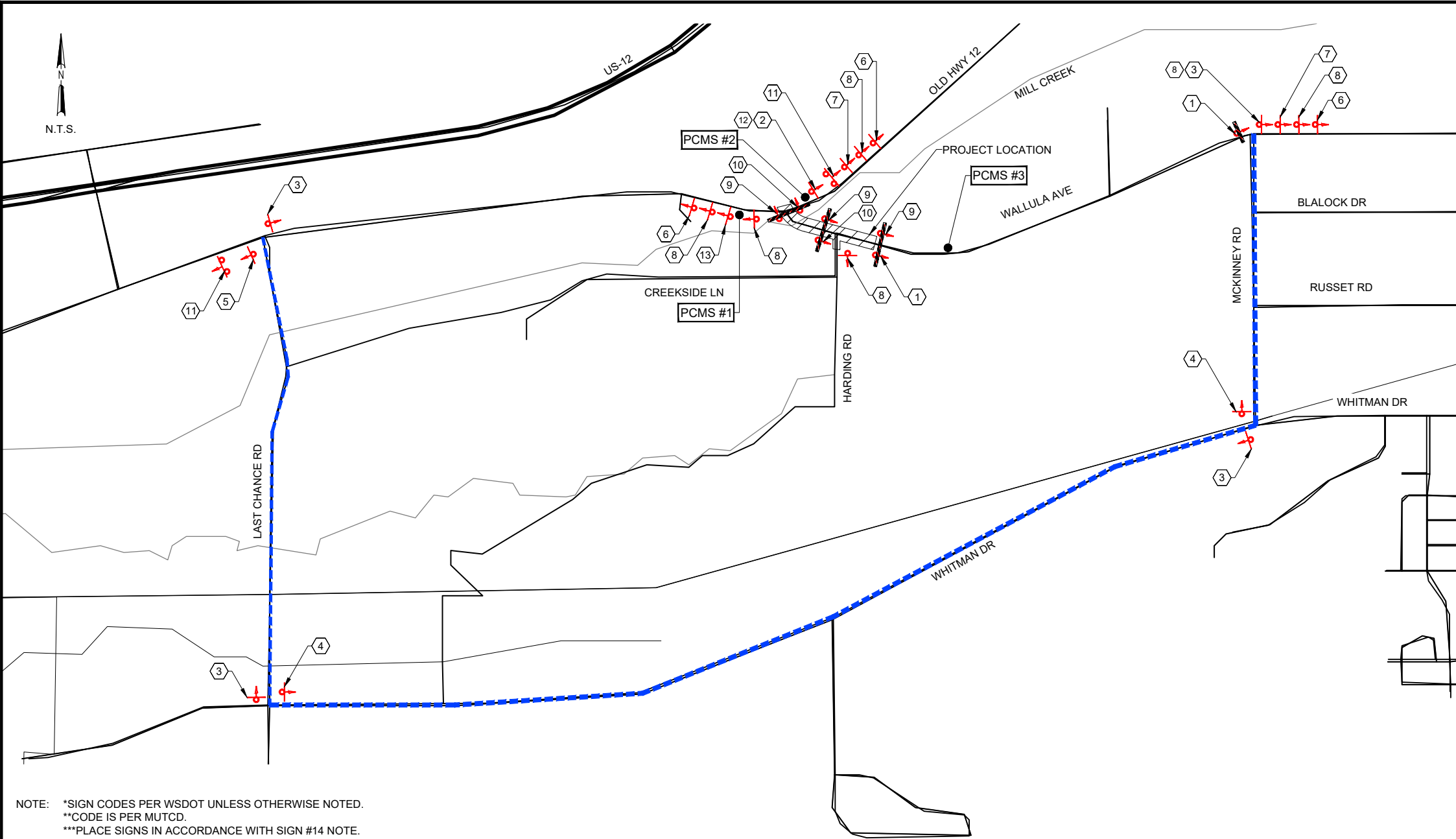
SHEET

34

34 OF 47

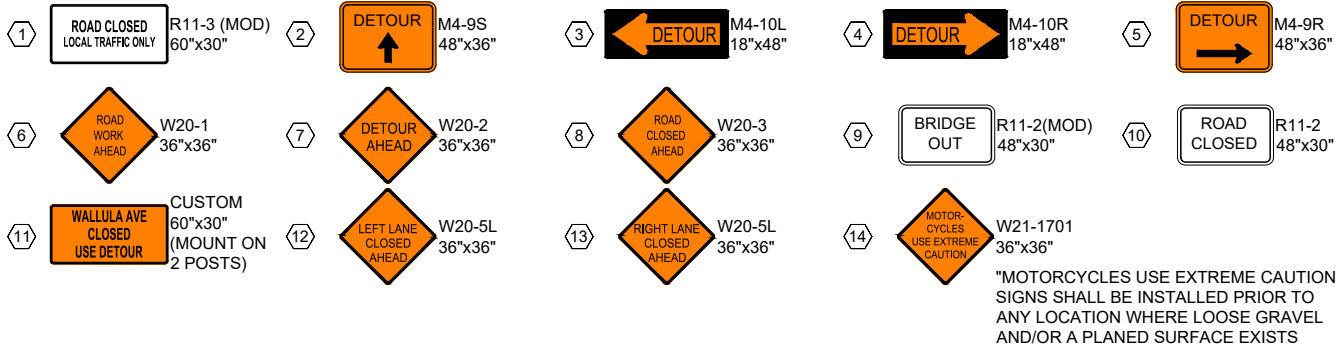
[illegible]

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NOTE: *SIGN CODES PER WSDOT UNLESS OTHERWISE NOTED.
**CODE IS PER MUTCD.
***PLACE SIGNS IN ACCORDANCE WITH SIGN #14 NOTE.

SIGN SCHEDULE							
SIGN #	SIGN CODE*	QUANTITY	SIZE INCHES	AREA SF	COLOR	POST PER SIGN	DESCRIPTION
1	R11-3**	2	60X30	12.5	BLACK / WHITE	1	ROAD CLOSED LOCAL TRAFFIC ONLY
2	M4-9S**	1	48X36	12	BLACK / ORANGE	1	DETOUR / STRAIGHT ARROW
3	M4-10L	4	48X18	6	BLACK / ORANGE / BLACK	1	DETOUR / ARROW LEFT
4	M4-10R	2	48X18	6	BLACK / ORANGE / BLACK	1	DETOUR ARROW RIGHT
5	M4-9R	1	48X36	12	BLACK / ORANGE	1	DETOUR / RIGHT ARROW
6	W20-1	3	36X36	9	BLACK / ORANGE	1	ROAD WORK AHEAD
7	W20-2	2	36X36	9	BLACK / ORANGE	1	DETOUR AHEAD
8	W20-3	6	36X36	9	BLACK / ORANGE	1	ROAD CLOSED AHEAD
9	R11-2(MOD)	3	48X30	10	BLACK / WHITE	1	BRIDGE OUT
10	R11-2	2	48X30	10	BLACK / WHITE	1	ROAD CLOSED
11	CUSTOM	2	60X30	12.5	BLACK / WHITE	2	WALLULA AVE CLOSED USE DETOUR
12	W20-5L	1	36X36	9	BLACK / ORANGE	1	LEFT LANE CLOSED AHEAD
13	W20-5R	1	36X36	9	BLACK / ORANGE	1	RIGHT LANE CLOSED AHEAD
14	W21-1701	***	36X36	9	BLACK / ORANGE	N/A	MOTORCYCLES USE EXTREME CAUTION



NOTES

- ALL REGULATORY TRAFFIC CONTROL DEVICES SHALL BE IN COMPLIANCE WITH THE LATEST EDITION OF MUTCD AND ALL TRAFFIC OPERATIONS MUST BE APPROVED.
- ALL TRAFFIC CONTROL SIGNS AND DEVICES SHALL BE IN NEW OR LIKE NEW CONDITION.
- ALL TRAFFIC CONTROL SIGNS AND DEVICES SHALL HAVE REFLECTORIZED SHEETING ATTACHED, PAINT WILL NOT BE ALLOWED.
- TWO FLASHING WARNING LIGHTS SHALL BE USED TO MARK EACH BARRICADE.
- WHEN ROAD IS OPEN TO TRAFFIC, ROAD CLOSED AHEAD SIGNS SHALL BE COVERED WITH ROAD WORK AHEAD SIGNS.
- SEE SPECIAL PROVISIONS FOR TYPE III BARRICADE DETAIL.
- USE WSDOT STANDARD PLAN G-20.10-03 FOR TEMPORARY CONSTRUCTION SIGN PLACEMENT.
- ONCE BRIDGE REMOVAL IS COMPLETE, TYPE III BARRICADES SHALL BE PLACED ON THE OUTSIDE EDGE OF BOTH ABUTMENTS, SPANNING ACROSS THE EXISTING ROAD. PLACE R11-2a AND R11-2 SIGNS ON BARRICADES, WITH ONE (1) SIGN PER BARRICADE.

PCMS MESSAGE	
PHASE 1	PHASE 2
WALLULA AVE CLOSED	MMM DD TO MMM DD
1.5 SEC	1.5 SEC
USE 1 WEEK PRIOR TO WORK ON PCMS #1, #2 & #3	

LEGEND

	WORK AREA		SIGN DOUBLE POST
	DETOUR ROUTE		TYPE III BARRICADE
	SIGN SINGLE POST		PORTABLE CHANGEABLE MESSAGE SIGN

SIGN SPACING = X(1)		
RURAL HIGHWAYS	60 / 65 MPH	800'
RURAL ROADS	45 / 50 MPH	500'
RURAL ROADS & URBAN ARTERIALS	35 / 40 MPH	350'
URBAN ROADS, URBAN ARTERIALS, RESIDENTIAL & BUSINESS DISTRICTS	25 / 30 MPH	200' (2)
URBAN STREETS	25 MPH OR LESS	100' (2)
(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERSECTIONS AND DRIVEWAYS (2) THIS SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROADWAY CONDITIONS		



P:\WALL00PW0001\0400CAD\SHEETS\WALL00PW0001_Traffic Control.dwg				REGION NO.	STATE	FEDERAL AID PROJECT NO.
DRAWN: AWRA				10	WASH	
DESIGNER: LXHE						
CHECKED: HRC				JOB NUMBER		
PROJ. ENG.: HRC				22-03		BRS-L360(001)
APPROVED BY:						TA-7561
9/8/2025	REV DATE	REVISION	BY	APP'D		



Walla Walla County
PUBLIC WORKS DEPARTMENT

9/8/2025
PLOT DATE



WALLULA AVENUE BRIDGE

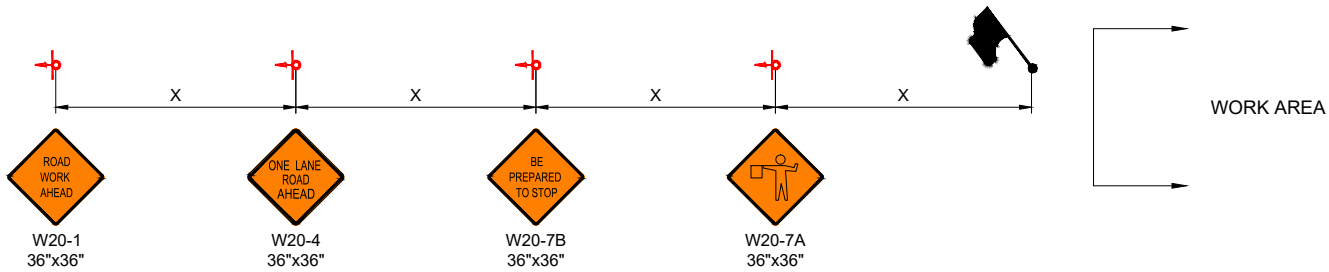
TEMPORARY TRAFFIC CONTROL I

SHEET

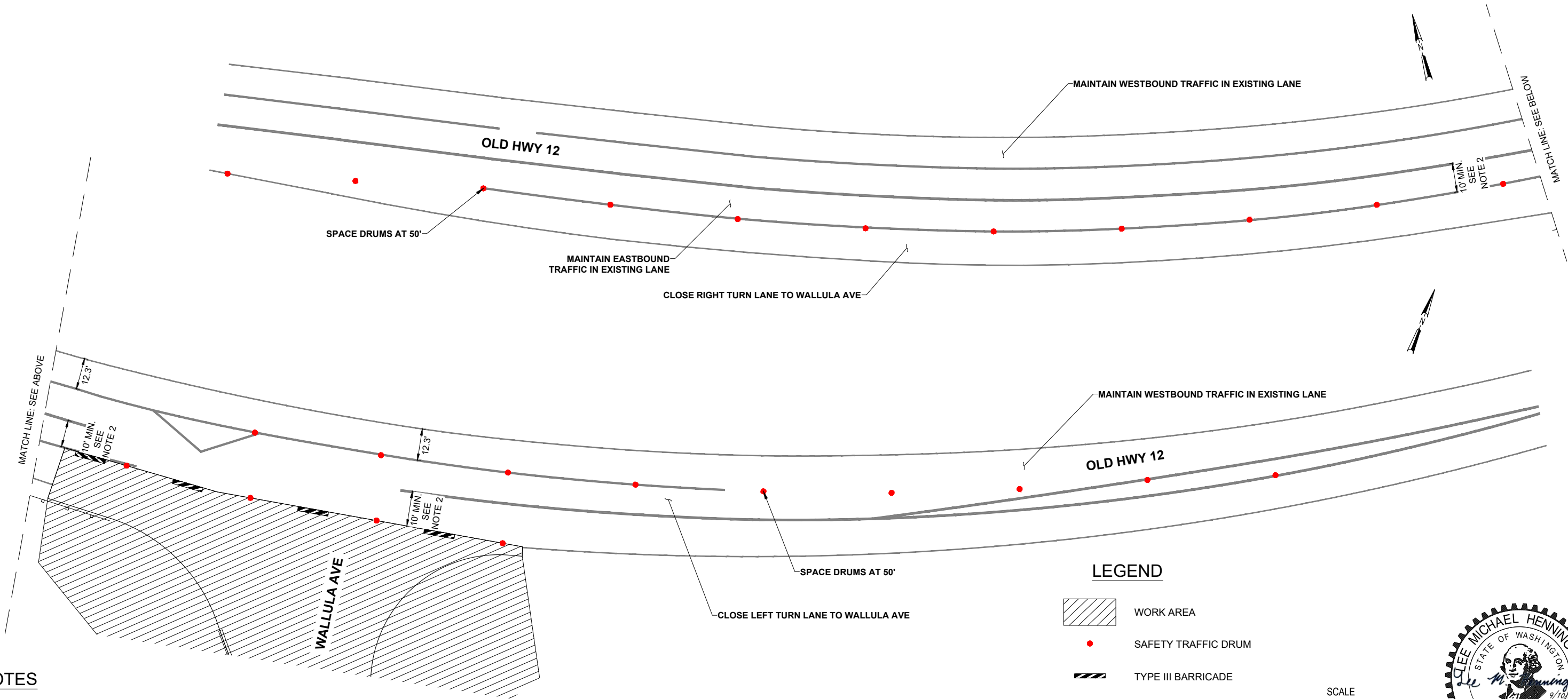
36

36 OF 47

SIGN SPACING = X(1)		
RURAL HIGHWAYS	60 / 65 MPH	800'
RURAL ROADS	45 / 50 MPH	500'
RURAL ROADS & URBAN ARTERIALS	35 / 40 MPH	350'
URBAN ROADS, URBAN ARTERIALS, RESIDENTIAL & BUSINESS DISTRICTS	25 / 30 MPH	200' (2)
URBAN STREETS	25 MPH OR LESS	100' (2)
(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERSECTIONS AND DRIVEWAYS		
(2) THIS SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROADWAY CONDITIONS		



FLAGGING DETAIL



NOTES

1. PLACE DRUMS AND TYPE III BARRICADES ACROSS WALLULA AVE INTERSECTION, LEAVING MIN 10' TRAVEL LANE FOR EASTBOUND TRAFFIC.
2. SHORT TERM LANE CLOSURE REQUIRED WHEN 10' MINIMUM TRAVEL LANE CANNOT BE MET PER FLAGGING DETAIL SHOWN.
3. THE TRAVEL LANE SHALL BE CLEAR OF ALL MATERIALS, EQUIPMENT, AND RESTRICTIONS UNTIL FLAGGERS HAVE STOPPED TRAFFIC, AND BEFORE FLAGGERS RELEASE TRAFFIC.

DRAWN: AWRA					REGION NO.	STATE	FEDERAL AID PROJECT NO.	
DESIGNER: LXHE					10	WASH		
CHECKED: HRC					JOB NUMBER		BRS-L360(001)	
PROJ. ENG.: HRC					22-03		TA-7561	
APPROVED BY:					BY	APP'D		
9/8/2025					REV DATE	REVISION		

DAVID EVANS AND ASSOCIATES INC.
908 N Howard St Ste 300
Spokane, WA 99201
Phone: 509.327.8897

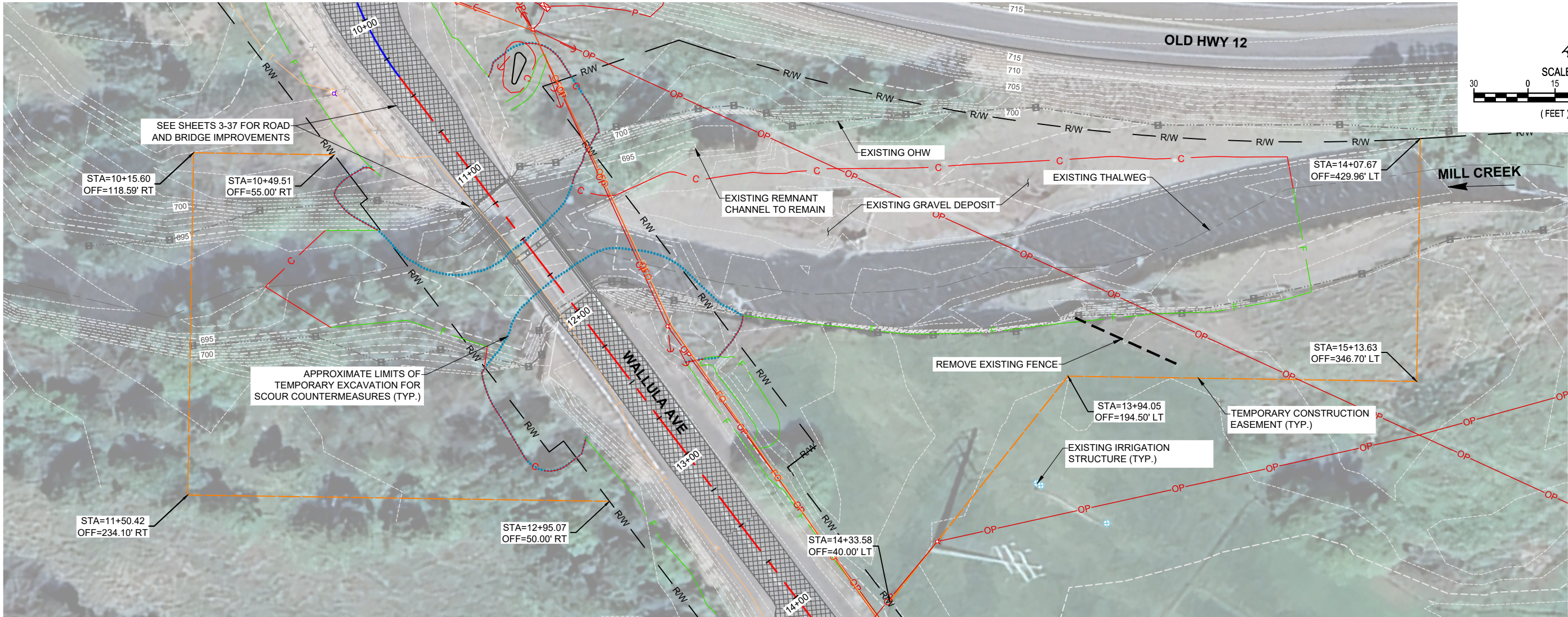
Walla Walla County
PUBLIC WORKS DEPARTMENT
9/8/2025
PLOT DATE



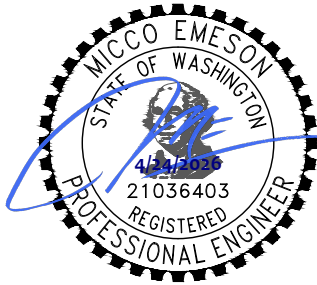
WALLULA AVENUE BRIDGE

TEMPORARY TRAFFIC CONTROL II





- NOTES:
- 1. SEE SHEET 3 FOR THE ROADWAY SITE PREPARATION PLAN.
 - 2. CONTRACTOR TO PROVIDE TEMPORARY EROSION AND SEDIMENT CONTROL PLAN(S) PER SECTION 8-01 OF THE SPECIAL PROVISIONS.
 - 3. CONTRACTOR TO PROVIDE TEMPORARY STREAM DIVERSION PLAN(S) PER SECTION 8-31 OF THE SPECIAL PROVISIONS.



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DRAWN: RHW					10	WASH	BRS-L360(001) TA-7561
DESIGNER: RHW					JOB NUMBER		
CHECKED: MAEM					22-03		
PROJ. ENG.: MAEM							
APPROVED BY:							
9/18/2025	REV DATE	REVISION	BY	APP'D			



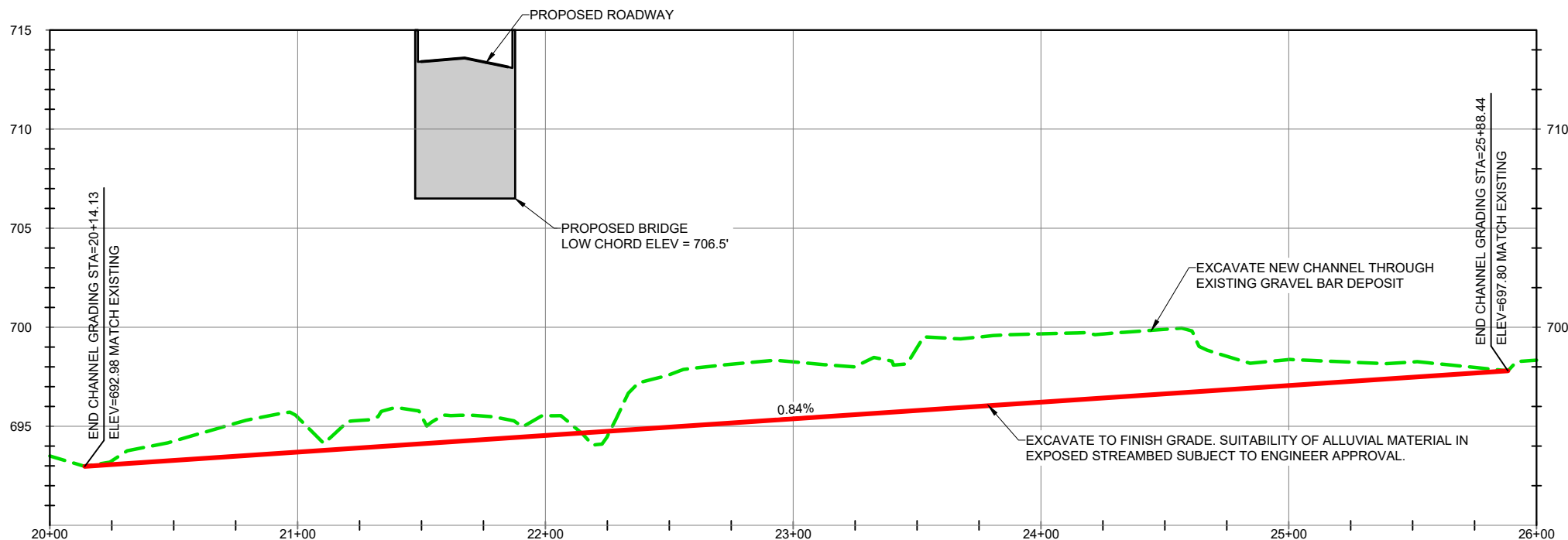
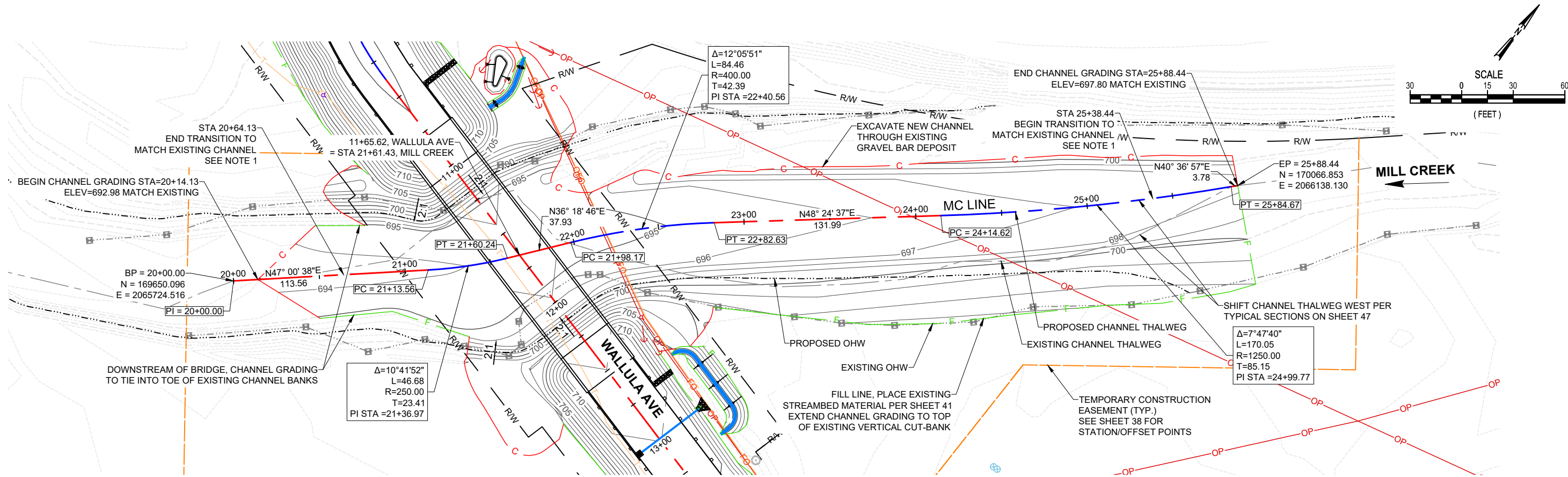
Walla Walla County
PUBLIC WORKS DEPARTMENT

4/23/2026
PLOT DATE

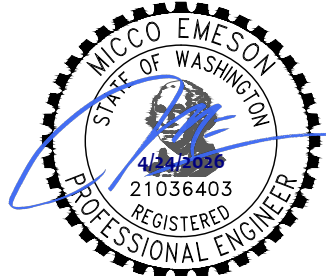


WALLULA AVENUE BRIDGE

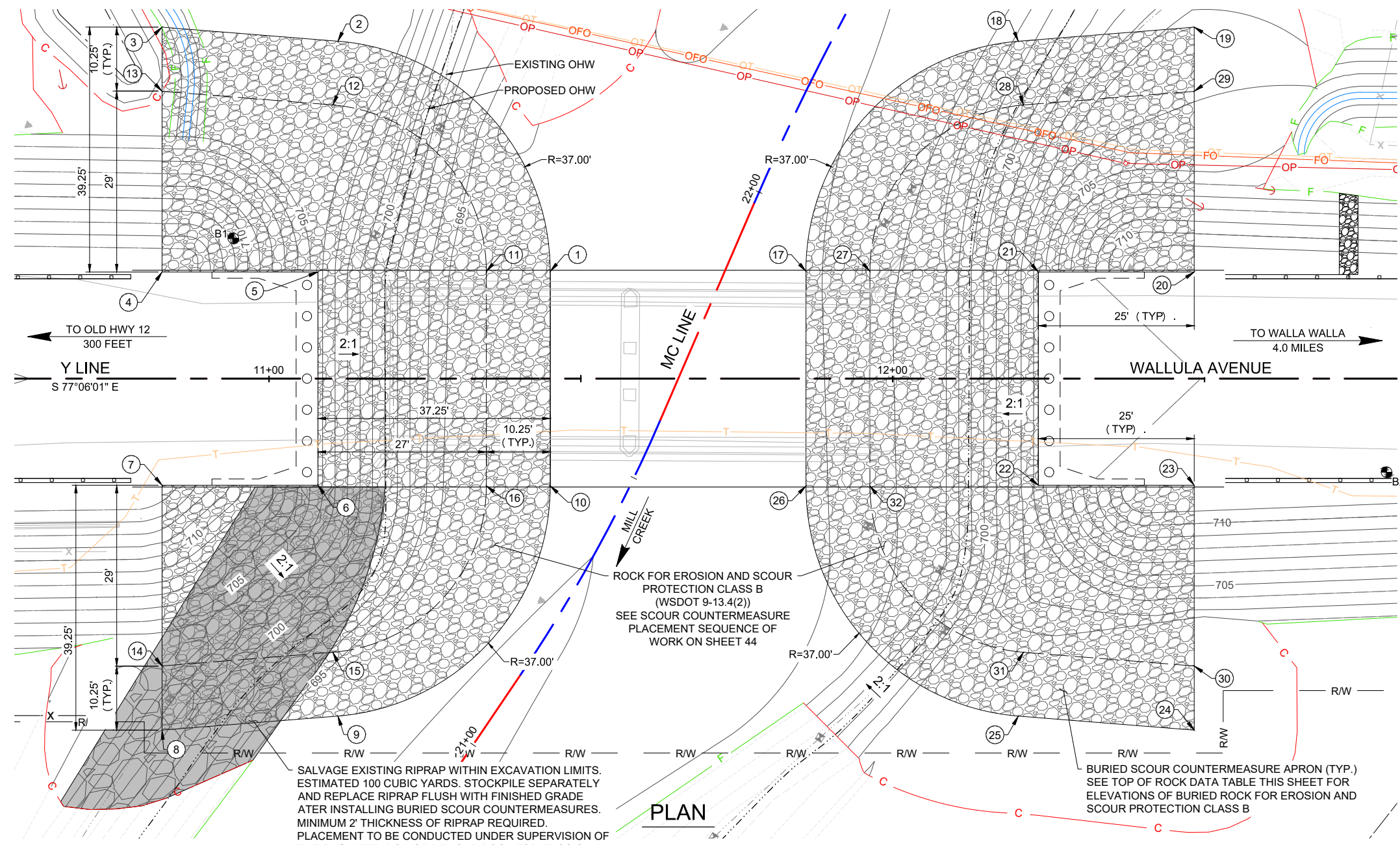
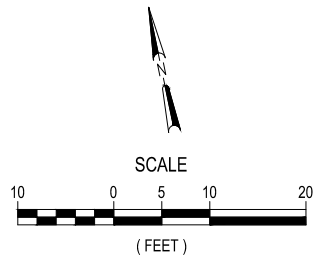
STREAM CHANNEL OVERVIEW



NOTES:
1. CONTRACTOR SHALL CONSTRUCT THE CHANNEL USING THE LINES AND GRADES INDICATED. SOME FIELD ADJUSTMENTS OF THE LINES AND GRADES FOR THE FINISH GRADING MAY BE NECESSARY WITHIN THE IDENTIFIED TRANSITION ZONES DUE TO LIKELY CHANGES IN CHANNEL CONDITIONS BETWEEN THE DATE OF THE TOPOGRAPHIC SURVEY AND CONSTRUCTION. CONTRACTOR SHALL PRODUCE FINISH GRADING THAT IS FREE OF ABRUPT CHANGES IN THE LINES AND GRADES OF THE CHANNEL AND OVERBANK AREAS. CONFIRM ACCEPTABILITY OF FINAL GRADING IN THE TRANSITION ZONES WITH ENGINEER PRIOR TO SOIL AMENDMENTS, SEEDING, AND PERMANENT EROSION CONTROL INSTALLATION.

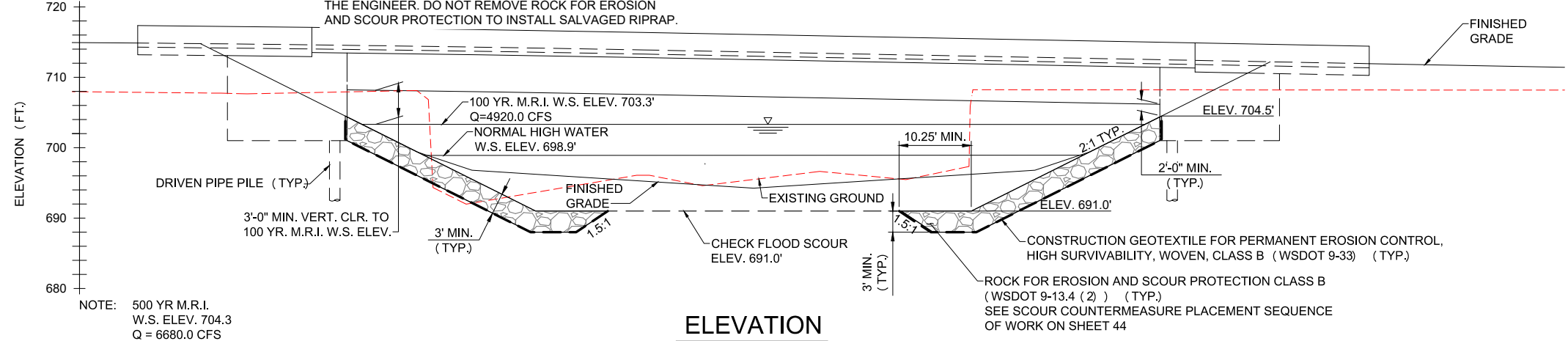


P:\WALL00PW0001\0400CAD\SHETS\WALL00PW0001_SHEET_HYDR_PLPR.dwg				REGION NO.	STATE	FEDERAL AID PROJECT NO.	 DAVID EVANS AND ASSOCIATES INC. 608 N Howard St. Ste 500 Spokane, WA 99201 Phone: 509.827.8667	Walla Walla County PUBLIC WORKS DEPARTMENT 4/23/2026 PLOT DATE		WALLULA AVENUE BRIDGE		SHEET 39 39 OF 47
DRAWN: RHW				10	WASH	BRS-L360(001) TA-7561				STREAM PLAN & PROFILE		
DESIGNER: RHW												
CHECKED: MAEM												
PROJ. ENG.: MAEM				JOB NUMBER								
APPROVED BY:				22-03								
9/17/2025	REV DATE	REVISION	BY	APP'D								



TOP OF ROCK DATA TABLE			
ID	STATION*	OFFSET*	ELEVATION
1	11+45.10	17.20' LT	691.0
2	11+11.05	54.08' LT	691.0
3	10+82.85	56.33' LT	691.0
4	10+82.85	17.08' LT	705.5
5	11+07.85	17.08' LT	704.5
6	11+07.85	17.08' RT	704.5
7	10+82.85	17.08' RT	705.5
8	10+82.85	56.33' RT	691.0
9	11+11.05	54.08' RT	691.0
10	11+45.10	17.20' RT	691.0
11	11+34.85	17.20' LT	691.0
12	11+10.24	43.86' LT	691.0
13	10+82.85	46.05' LT	691.0
14	10+82.85	46.05' RT	691.0
15	11+10.24	43.86' RT	691.0
16	11+34.85	17.20' RT	691.0
17	11+86.10	17.20' LT	691.0
18	12+20.15	54.08' LT	691.0
19	12+48.35	56.33' LT	691.0
20	12+48.35	17.08' LT	705.5
21	12+23.35	17.08' LT	704.5
22	12+23.35	17.08' RT	704.5
23	12+48.35	17.08' RT	705.5
24	12+48.35	56.33' RT	691.0
25	12+20.15	54.08' RT	691.0
26	11+86.10	17.20' RT	691.0
27	11+96.35	17.20' LT	691.0
28	12+20.97	43.86' LT	691.0
29	12+48.35	46.05' LT	691.0
30	12+48.35	46.05' RT	691.0
31	12+20.97	43.86' RT	691.0
32	11+96.35	17.20' RT	691.0

*STATIONS AND OFFSETS BASED OFF OF WALLULA AVENUE ALIGNMENT (Y LINE)



DRAWN: RHW				REGION NO.	STATE	FEDERAL AID PROJECT NO.
DESIGNER: MAEM				10	WASH	
CHECKED: BJME						
PROJ. ENG.: MAEM				JOB NUMBER		
APPROVED BY:				22-03		BRS-L360(001) TA-7561
4/23/2026	REV DATE	REVISION	BY	APP'D		

DAVID EVANS AND ASSOCIATES INC.
908 N Howard St Ste 300
Spokane, WA 99201
Phone: 509.327.8697

Walla Walla County

PUBLIC WORKS DEPARTMENT

4/23/2026
PLOT DATE

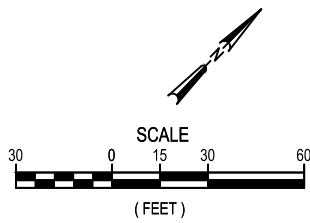
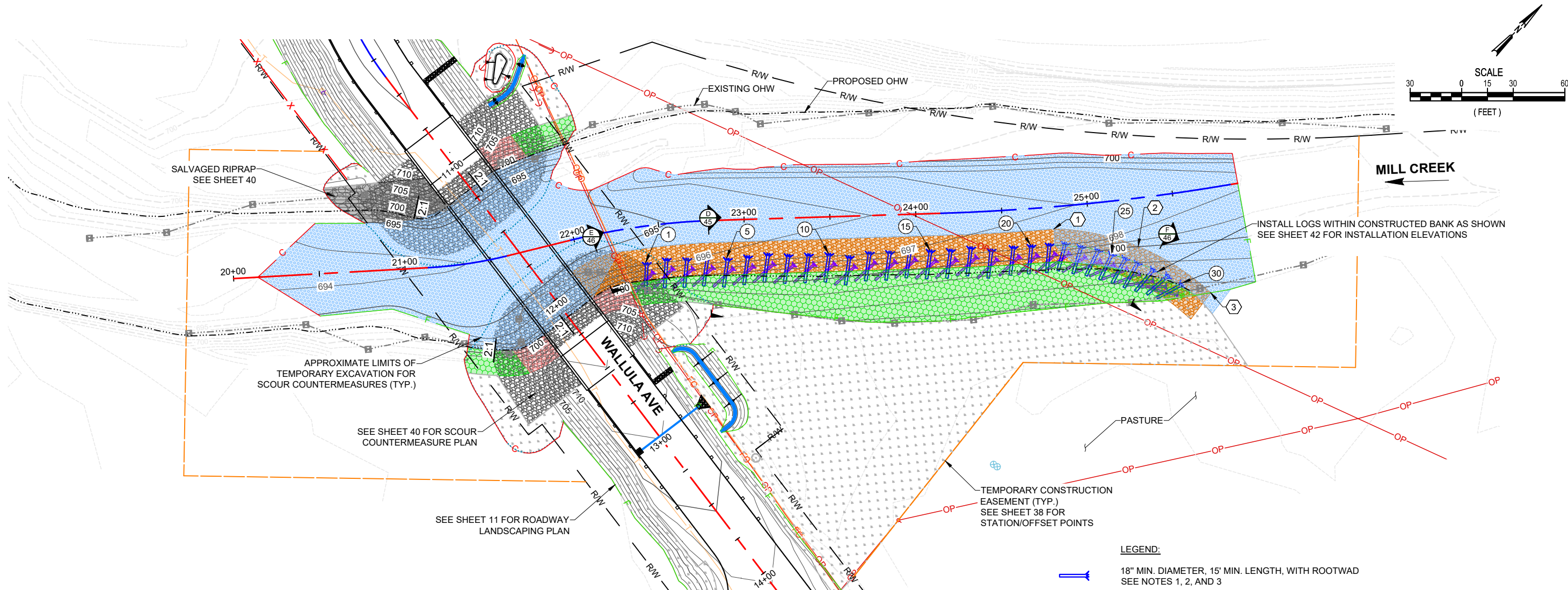
WALLULA AVENUE BRIDGE

SCOUR COUNTERMEASURE PLAN

SHEET

40

40 OF 47

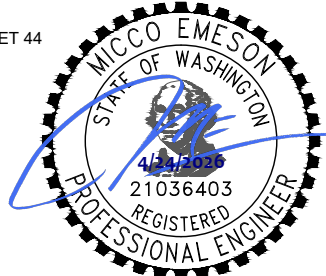


- NOTES:**
1. LARGE WOODY MATERIAL (LWM) STRUCTURE NUMBERS INCREASE FROM WEST TO EAST. EVERY FIFTH STRUCTURE IS LABELED ON THIS SHEET FOR REFERENCE.
 2. SEE SHEET 42 FOR LWM PLACEMENT TABLE AND DETAILS.
 3. EACH 18" MIN. DIA. LOG SHALL BE ANCHORED IN PLACE WITH BOULDER BALLAST COMPRISED OF 2 STREAMBED BOULDERS TYPE THREE (WSDOT 9-03.11(5)). SEE SHEET 43 FOR TYPICAL BOULDER BALLAST DETAIL.
 4. ROUNDED REVETMENT ROCK SHALL CONSIST OF 40% STREAMBED BOULDERS TYPE ONE (9-03.11(5)), 30% 12" STREAMBED COBBLES (9-03.11(4)), AND 30% STREAMBED SEDIMENT (9-03.11(1)).
 5. SUITABILITY OF ALLUVIAL MATERIAL IN EXPOSED STREAMBED SUBJECT TO ENGINEER APPROVAL.
 6. CONTRACTOR TO INSTALL APPROXIMATELY 355 LINEAR FEET OF FENCE ALONG THE PERIMETER OF THE RESTORATION AREA, AND REPLACE THE EXISTING FENCE INTERIOR TO THE PASTURE. INTENT OF FENCE IS TO PREVENT LIVESTOCK GRAZING OF THE RESTORATION AREA. FIELD FIT MODIFICATIONS MAY BE NECESSARY TO ENSURE ADEQUATE EXCLUSION OF LIVESTOCK FROM RESTORATION AREA. CONTRACTOR TO COORDINATE WITH ENGINEER OR COUNTY REPRESENTATIVE.
 7. SEE SHEET 45 FOR PLANTING SCHEDULE.
 8. SEE SHEET 46 FOR BIODEGRADABLE EROSION CONTROL BLANKET INSTALLATION.
 9. SEE SHEET 47 FOR TYPICAL SECTIONS.
 10. FERTILIZER SHALL NOT BE APPLIED WITHIN 5 FEET OF THE TOP OF THE ROUNDED REVETMENT ROCK. THIS AREA SHALL BE TREATED WITH SEEDING AND MULCHING ONLY. SEE SECTION D ON SHEET 45.

REVETMENT DATA TABLE			
ID	STATION*	OFFSET	REVETMENT REFERENCE ELEVATION**
1	24+79.6	12.8' RT	697.4
2	25+26.5	28.0' RT	697.8
3	25+63.3	60.3' RT	698.1

* STATIONING BASED OFF PROPOSED MILL CREEK ALIGNMENT
** SEE SECTION D ON SHEET 45 FOR REFERENCE POINT LOCATION

- LEGEND:**
- 18" MIN. DIAMETER, 15' MIN. LENGTH, WITH ROOTWAD
SEE NOTES 1, 2, AND 3
 - 12" MIN. DIAMETER, 15' MIN. LENGTH, WITH ROOTWAD
SEE NOTES 1 AND 2
 - SOIL AMENDMENT PER DETAIL B ON SHEET 44
LIVE POLES
CONTAINER PLANTINGS WITH BARK MULCH RINGS
SEEDING, FERTILIZING AND MULCHING
BIODEGRADABLE EROSION CONTROL BLANKET, SEE NOTE 8
SEE NOTES 7 AND 10
 - SOIL AMENDMENT PER DETAIL B ON SHEET 44
LIVE POLES
SEEDING, FERTILIZING AND MULCHING
BIODEGRADABLE EROSION CONTROL BLANKET, SEE NOTE 8
SEE NOTE 7
 - ROUNDED REVETMENT ROCK PER DETAIL C ON SHEET 44
LIVE POLES
SEE NOTES 4 AND 7
 - REDEPOSITED STREAMBED MATERIAL PER DETAIL A ON SHEET 44
SEE NOTE 5
 - 2" TOPSOIL TYPE B SEEDING, MULCHING AND FERTILIZING,
SEE SHEET 11
 - PLACE SALVAGED RIPRAP FLUSH WITH FINISHED GRADE
SEE SHEET 40
 - LARGE WOODY MATERIAL (LWM) STRUCTURE ID
SEE SHEET 42
 - REVETMENT REFERENCE POINT ID



P:\WALL00PW0001\0400CAD\SHEETS\WALL00PW0001_SHEET_HYDR_REST.dwg			
DRAWN: RHW			
DESIGNER: RHW			
CHECKED: BJME			
PROJ. ENG.: MAEM			
APPROVED BY:			
4/22/2026	REV DATE	REVISION	BY APP'D

REGION NO.	STATE	FEDERAL AID PROJECT NO.
10	WASH	
JOB NUMBER		
22-03		

BRS-L360(001)
TA-7561



Walla Walla County
PUBLIC WORKS DEPARTMENT
4/23/2026
PLOT DATE



WALLULA AVENUE BRIDGE

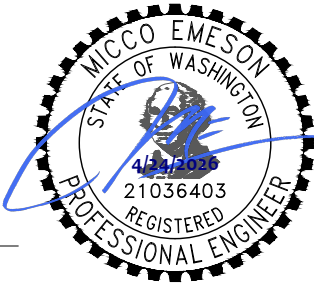
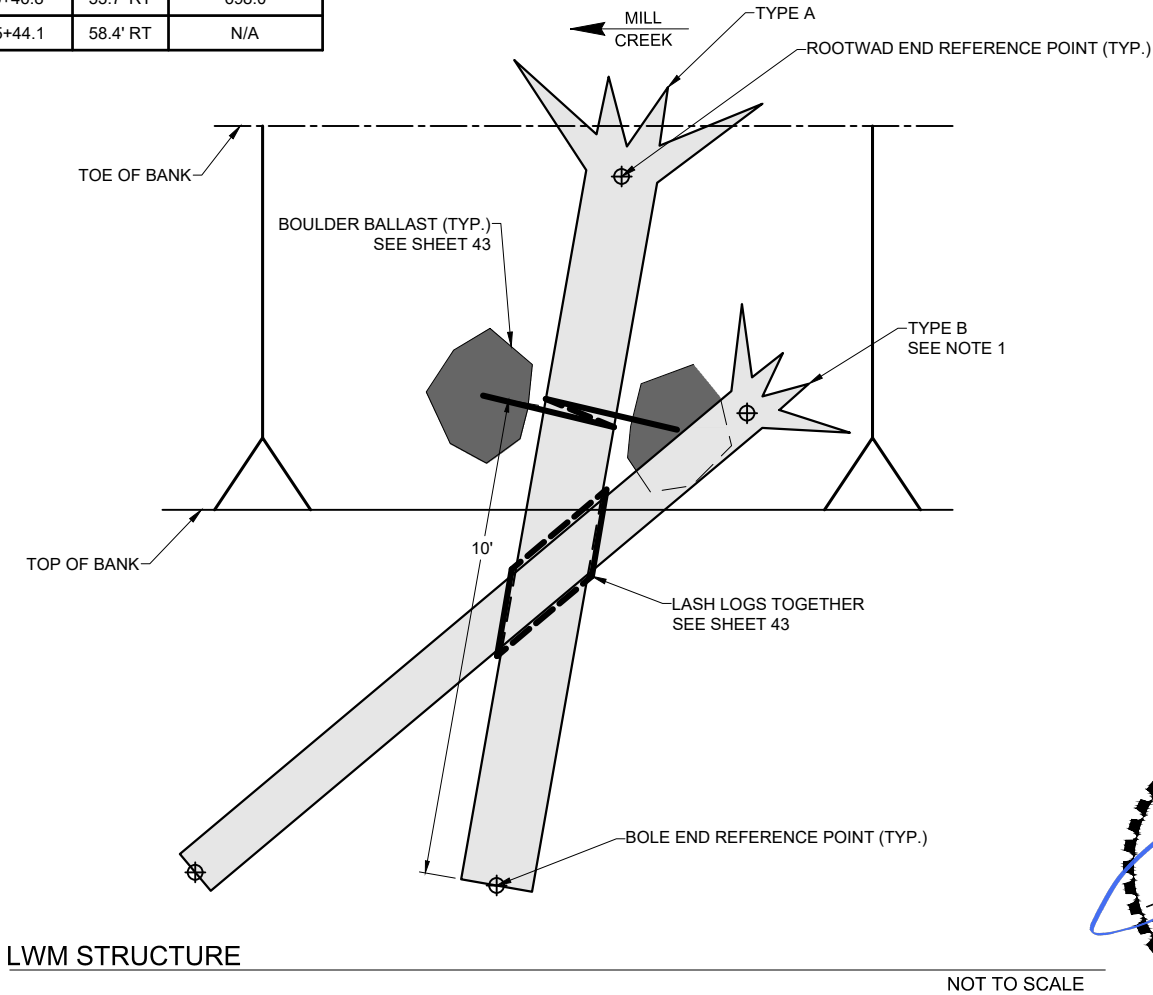
STREAM RESTORATION PLAN

LARGE WOODY MATERIAL (LWM) DATA TABLE							
STRUCTURE	LOG TYPE	BOLE			ROOTWAD		
		STATION*	OFFSET	REFERENCE ELEVATION**	STATION*	OFFSET	REFERENCE ELEVATION**
1	A	22+37.0	37.8' RT	693.8	22+39.9	23.0' RT	695.4
	B	22+30.1	37.4' RT	N/A	22+42.7	27.9' RT	N/A
2	A	22+49.4	36.8' RT	693.9	22+52.4	22.0' RT	695.5
	B	22+42.5	36.4' RT	N/A	22+55.1	26.9' RT	N/A
3	A	22+62.0	37.8' RT	694.0	22+64.9	23.0' RT	695.6
	B	22+55.1	37.4' RT	N/A	22+67.7	27.9' RT	N/A
4	A	22+74.5	37.8' RT	694.1	22+77.4	23.0' RT	695.7
	B	22+67.6	37.4' RT	N/A	22+80.2	27.9' RT	N/A
5	A	22+86.9	38.8' RT	694.2	22+89.5	24.0' RT	695.8
	B	22+80.4	38.5' RT	N/A	22+92.1	28.9' RT	N/A
6	A	22+98.7	37.8' RT	694.3	23+01.3	23.0' RT	695.9
	B	22+92.5	37.5' RT	N/A	23+03.9	27.9' RT	N/A
7	A	23+10.5	36.8' RT	694.4	23+13.1	22.0' RT	696.0
	B	23+04.3	36.5' RT	N/A	23+15.7	26.9' RT	N/A
8	A	23+22.4	37.8' RT	694.5	23+24.9	23.0' RT	696.1
	B	23+16.1	37.5' RT	N/A	23+27.6	27.9' RT	N/A
9	A	23+34.1	37.8' RT	694.6	23+36.7	23.0' RT	696.2
	B	23+27.9	37.5' RT	N/A	23+39.4	27.9' RT	N/A
10	A	23+46.0	37.8' RT	694.7	23+48.6	23.0' RT	696.3
	B	23+39.7	37.6' RT	N/A	23+51.2	27.9' RT	N/A
11	A	23+57.8	39.8' RT	694.8	23+60.4	25.0' RT	696.4
	B	23+51.5	39.5' RT	N/A	23+63.0	29.9' RT	N/A
12	A	23+69.6	37.8' RT	694.9	23+72.2	23.1' RT	696.5
	B	23+63.3	37.6' RT	N/A	23+74.8	27.9' RT	N/A
13	A	23+81.4	37.8' RT	695.0	23+84.0	23.0' RT	696.6
	B	23+75.1	37.6' RT	N/A	23+86.6	27.9' RT	N/A
14	A	23+93.2	36.8' RT	695.1	23+95.8	22.0' RT	696.7
	B	23+87.0	36.5' RT	N/A	23+98.4	26.9' RT	N/A
15	A	24+05.0	37.8' RT	695.2	24+07.6	23.0' RT	696.8
	B	23+98.8	37.5' RT	N/A	24+10.2	27.8' RT	N/A
16	A	24+16.8	37.8' RT	695.3	24+19.3	23.0' RT	696.9
	B	24+10.6	37.5' RT	N/A	24+21.9	27.8' RT	N/A
17	A	24+28.4	36.8' RT	695.4	24+31	22.0' RT	697.0
	B	24+22.3	36.5' RT	N/A	24+33.5	26.9' RT	N/A
18	A	24+40.1	38.8' RT	695.5	24+42.6	24.0' RT	697.1
	B	24+34.0	38.6' RT	N/A	24+45.1	28.8' RT	N/A
19	A	24+52.7	37.8' RT	695.6	24+55.3	23.0' RT	697.2
	B	24+46.6	37.5' RT	N/A	24+57.8	27.9' RT	N/A
20	A	24+63.1	37.8' RT	695.7	24+65.6	23.0' RT	697.3
	B	24+57.0	37.5' RT	N/A	24+68.1	27.8' RT	N/A

* STATIONING BASED OFF OF PROPOSED MILL CREEK ALIGNMENT
** SEE SECTION D ON SHEET 45 FOR REFERENCE POINT LOCATION

LWM DATA TABLE							
STRUCTURE	LOG TYPE	BOLE			ROOTWAD		
		STATION*	OFFSET	REFERENCE ELEVATION**	STATION*	OFFSET	REFERENCE ELEVATION**
21	A	24+73.4	37.8' RT	695.8	24+76.0	23.0' RT	697.4
	B	24+67.3	37.5' RT	N/A	24+78.5	27.9' RT	N/A
22	A	24+79.8	37.2' RT	695.9	24+84.8	23.1' RT	697.4
	B	24+73.9	35.9' RT	N/A	24+86.5	28.3' RT	N/A
23	A	24+88.1	39.7' RT	695.9	24+93.6	25.8' RT	697.5
	B	24+82.2	38.1' RT	N/A	24+95.1	31.1' RT	N/A
24	A	24+95.3	41.5' RT	696.0	25+02.9	28.7' RT	697.6
	B	24+89.7	39.0' RT	N/A	25+03.5	34.2' RT	N/A
25	A	25+02.8	44.5' RT	696.1	25+10.5	31.8' RT	697.6
	B	24+97.2	42.0' RT	N/A	25+11.0	37.3' RT	N/A
26	A	25+09.4	47.4' RT	696.1	25+17.7	35.1' RT	697.7
	B	25+04.0	44.5' RT	N/A	25+18.0	40.6' RT	N/A
27	A	25+15.9	50.7' RT	696.2	25+24.3	38.5' RT	697.8
	B	25+10.5	47.8' RT	N/A	25+24.5	44.0' RT	N/A
28	A	25+21.9	53.6' RT	696.3	25+32.5	43.3' RT	697.8
	B	25+17.2	49.6' RT	N/A	25+31.7	48.7' RT	N/A
29	A	25+28.0	56.1' RT	696.3	25+40.0	47.8' RT	697.9
	B	25+24.0	51.4' RT	N/A	25+38.4	53.0' RT	N/A
30	A	25+33.4	59.0' RT	696.4	25+46.8	53.7' RT	698.0
	B	25+30.5	53.4' RT	N/A	25+44.1	58.4' RT	N/A

- NOTES:
- TYPE B LOGS SHALL BE INSTALLED WITH A SLOPE OF 0% MEASURED ALONG THE LOG'S LONG AXIS.
 - LOG PLACEMENT WITH RESPECT TO TOP AND TOE OF BANK IS DEPICTED AS TYPICAL. SEE LWM DATA TABLE FOR ACTUAL/EXACT LOCATIONS.
 - FINAL LOG PLACEMENT TO BE APPROVED BY ENGINEER IN FIELD.
 - LOGS SHALL NOT DISPLACE OR INTERFERE WITH THE ROCK FOR EROSION AND SCOUR PROTECTION CLASS B ASSOCIATED WITH BRIDGE SCOUR COUNTERMEASURES.



P:\WWWALL00PW0001\0400CAD\SHEETS\WALL00PW0001_SHEET_HYDR_DETAILS.dwg					REGION NO.	STATE	FEDERAL AID PROJECT NO.	
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DESIGNER: RHW								
CHECKED: BJME								
PROJ. ENG.: MAEM								
APPROVED BY: ----					JOB NUMBER			
					22-03			
4/23/2026	REV DATE	REVISION	BY	APPD				

DAVID EVANS
AND ASSOCIATES INC.
608 N Howard St. Ste 500
Spokane, WA 99201
Phone: 509.827.8897

Walla Walla County

PUBLIC WORKS DEPARTMENT

4/23/2026
PLOT DATE

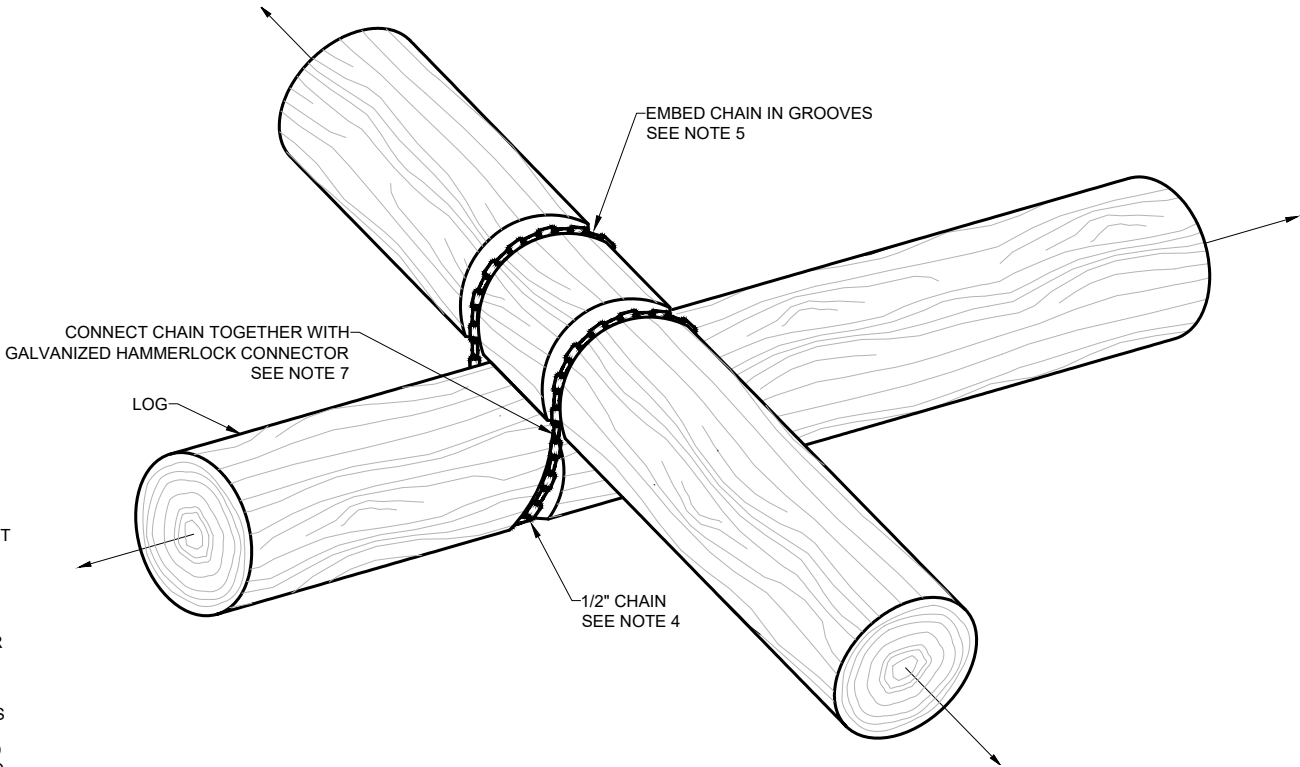
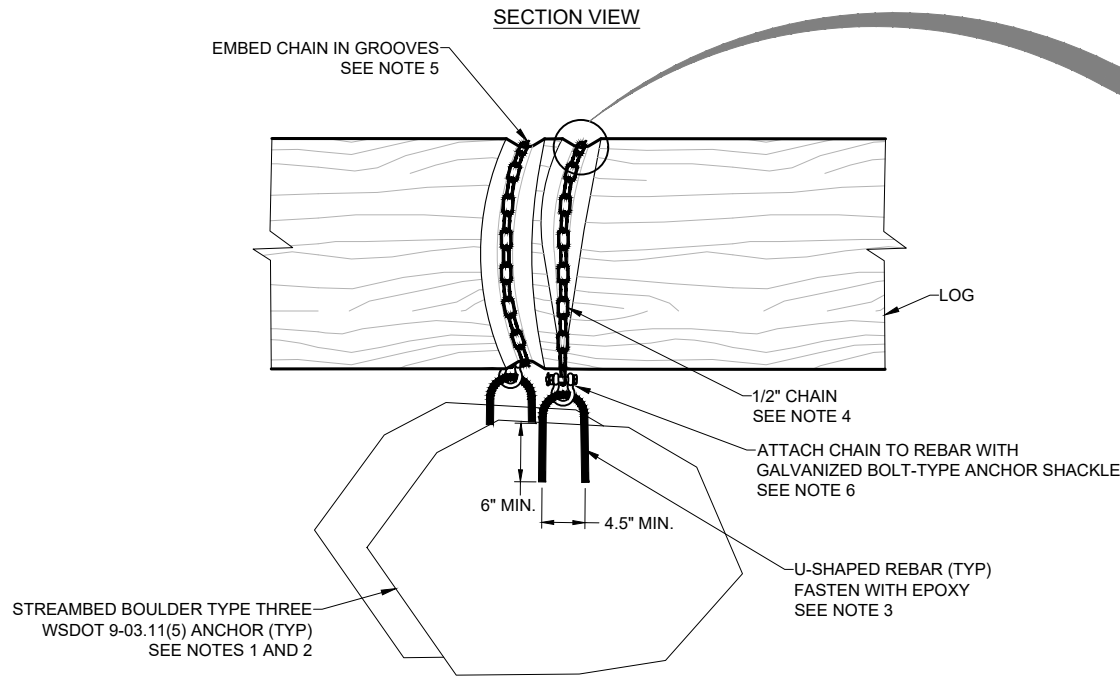
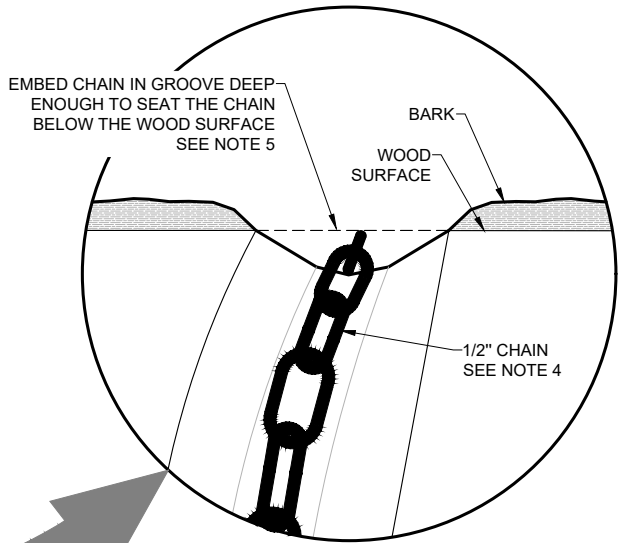
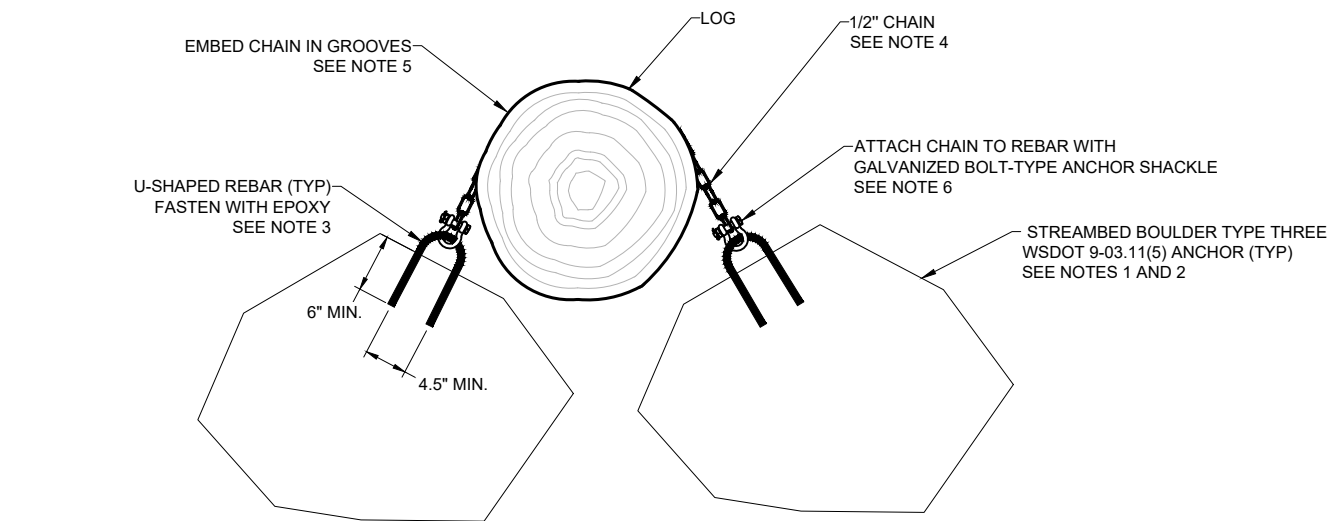
WALLULA AVENUE BRIDGE

LARGE WOODY MATERIAL DETAILS (1 OF 2)

SHEET

42

42 OF 47

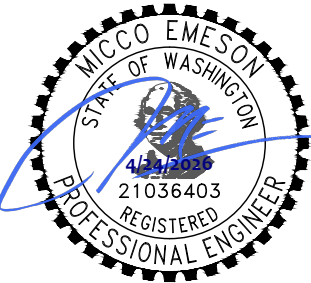


TYPICAL BOULDER BALLAST DETAIL

NOT TO SCALE

NOTES:

- BOULDERS SHALL BE SOUND, DURABLE, AND FREE OF FRACTURES. BOULDERS SHALL NOT FRACTURE WHEN HANDLED, PLACED, OR DROPPED FROM A HEIGHT OF UP TO 8 FEET DURING CONSTRUCTION. BOULDERS THAT FRACTURE OR BREAK DURING HANDLING SHALL BE REJECTED.
- BOULDERS SHALL BE FULLY BURIED.
- REBAR ANCHORS SHALL BE MINIMUM #5, ASTM A615 GRADE 60, EPOXY-COATED OR GALVANIZED. REBAR SHALL BE EPOXY-SET IN 7/8-INCH DIAMETER HOLES DRILLED IN BOULDERS USING A TWO-COMPONENT ADHESIVE ANCHOR SYSTEM SUITABLE FOR WET CONDITIONS AND INSTALLATION IN NATURAL ROCK, MEETING ASTM C881 TYPE IV, AND V, GRADE 3, CLASS C, OR APPROVED EQUAL. INSTALL EPOXY AND REBAR IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS. HOLES DRILLED IN BOULDERS MUST BE THOROUGHLY CLEANED OF ALL ROCK POWDER, DIRT, AND DEBRIS USING COMPRESSED AIR PRIOR TO PLACEMENT OF EPOXY.
- CHAIN SHALL BE GALVANIZED 1/2-INCH GRADE 43 HIGH-TEST CHAIN OR APPROVED EQUAL. CHAIN SHALL BE INSTALLED TAUT. USE TEMPORARY TENSIONING DEVICES (COME-ALONG OR RATCHET BINDER) TO REMOVE SLACK PRIOR TO FINAL CONNECTION. FINAL INSTALLED CHAIN SHALL HAVE NO VISIBLE SLACK. TEMPORARY TENSIONING DEVICES SHALL BE REMOVED AFTER INSTALLATION. ENGINEER SHALL VERIFY TENSION IN THE FIELD. CHAIN SHALL BE CONTINUOUS BETWEEN TERMINAL CONNECTIONS; NO EXTRA COUPLING LINKS ARE PERMITTED.
- PROVIDE GROOVES IN LOGS AT ALL CHAIN CONTACT LOCATIONS. GROOVES SHALL BE SIZED TO SEAT THE CHAIN BELOW THE OUTER SURFACE OF THE WOOD TO PREVENT SLIPPAGE AND REDUCE ABRASION. REMOVE BARK AT ALL CONTACT LOCATIONS. CHAINS BETWEEN LASHED LOGS SHALL BE PERPENDICULAR TO THE LOG FACES; GROOVE PLACEMENT SHALL BE ESTABLISHED TO PREVENT ANGLED SEGMENTS OF CHAIN BETWEEN THE LOGS.
- BOLT-TYPE ANCHOR SHACKLES SHALL BE USED FOR ALL PERMANENT CONNECTIONS BETWEEN CHAIN AND EMBEDDED REBAR ANCHORS. SHACKLES SHALL BE GALVANIZED. COTTER PINS SHALL BE STAINLESS STEEL. SCREW-PIN SHACKLES SHALL NOT BE USED.
- GALVANIZED HAMMERLOCK (COUPLING LINK) CONNECTORS SHALL BE USED FOR CHAIN-TO-CHAIN CONNECTIONS. DOUBLE CLEVIS LINKS SHALL NOT BE USED.
- ALL CONNECTING HARDWARE, INCLUDING SHACKLES AND HAMMERLOCK LINKS, SHALL HAVE A WORKING LOAD LIMIT EQUAL TO OR GREATER THAN THE CHAIN.



NOTES:

1. REFER TO SECTION 8-30 OF THE SPECIAL PROVISIONS FOR THIS PROJECT FOR ADDITIONAL DETAILS ON THE CONSTRUCTION OF THE STREAMBED.

STEP 1A

EXCAVATE CHANNEL AS NECESSARY TO THE LINES AND GRADES SHOWN ON THESE PLANS.

STEP 2A

PLACE A LIFT OF STREAMBED MATERIAL WITH A MAXIMUM THICKNESS OF 12 INCHES.

STEP 3A

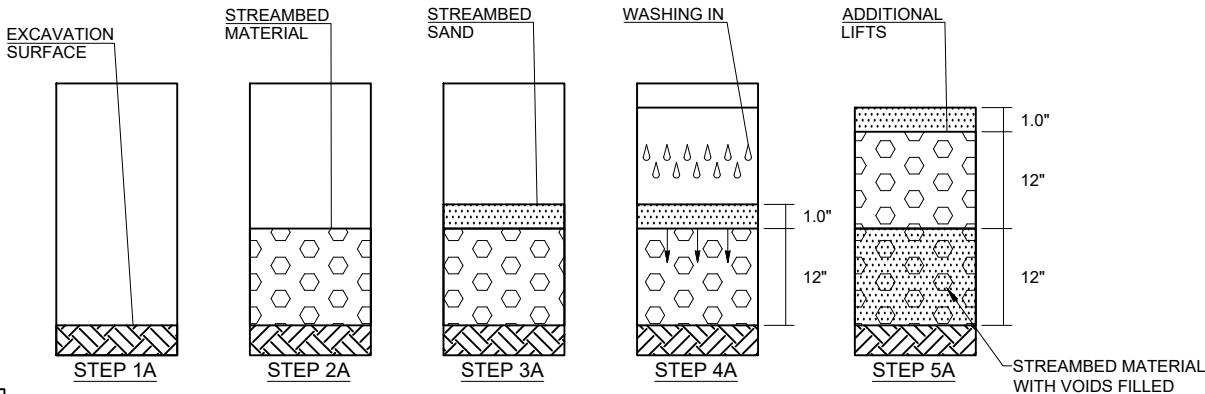
PLACE A LAYER OF STREAMBED SAND UNIFORMLY OVER THE TOP OF THE STREAMBED MATERIAL. THE THICKNESS OF THE STREAMBED SAND LAYER SHALL BE A MINIMUM THICKNESS OF 1 INCH AT ALL POINTS WITHIN THE LIMITS OF STREAMBED MATERIAL PLACEMENT.

STEP 4A

APPLY WATER TO SAND LAYER TO WASH DOWN INTO THE STREAMBED MATERIAL. SAND AND WATER SHALL BE APPLIED IN 1 INCH LIFTS AS NEEDED UNTIL THE FLOW NO LONGER GOES SUBSURFACE THROUGHOUT THE ENTIRE PROJECT LIMITS. SUFFICIENT FILLING OF THE VOIDS SHALL BE APPROVED BY THE ENGINEER IN THE FIELD.

STEP 5A

IF IN A AREA SHOWN RECEIVING SOIL AMENDMENT ON SHEET 41, REPEAT STEPS 2A-4A AS NEEDED TO CONSTRUCT THE STREAMBED TO ONE FOOT BELOW THE REQUIRED THICKNESS AND ELEVATION SHOWN ON THE PLANS AND SEE DETAIL B ON THIS SHEET. ELSEWHERE, REPEAT STEPS 2A-4A AS NEEDED TO CONSTRUCT THE STREAMBED TO THE REQUIRED THICKNESS AND ELEVATION SHOWN ON THE PLANS.



A STREAMBED MATERIAL PLACEMENT SEQUENCE OF WORK

NOT TO SCALE

STEP 1B

PLACE STREAMBED MATERIAL PER DETAIL A ON THIS SHEET TO ONE FOOT BELOW THE LINES AND GRADES SHOWN ON THESE PLANS.

STEP 2B

PLACE A LIFT OF SALVAGED STREAMBED MATERIAL WITH A THICKNESS OF 12 INCHES.

STEP 3B

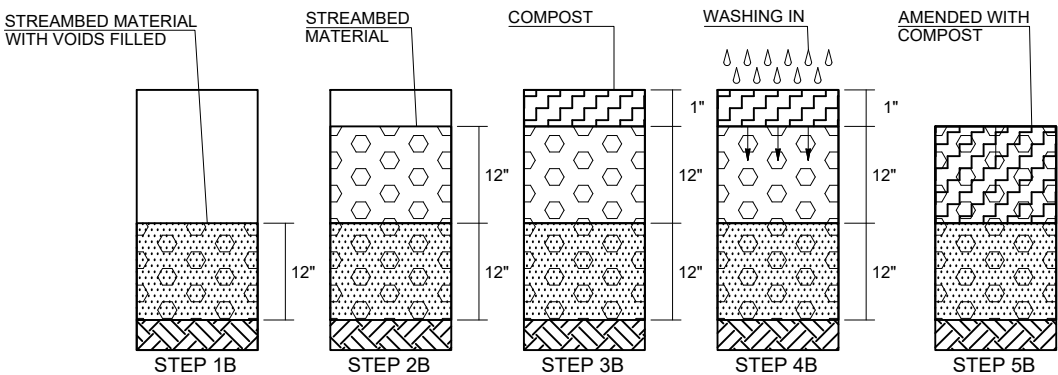
PLACE A UNIFORM 1-INCH LAYER OF FINE COMPOST OVER THE TOP OF THE SALVAGED STREAMBED MATERIAL.

STEP 4B

APPLY WATER TO THE COMPOST LAYER TO WASH DOWN INTO THE SALVAGED STREAMBED MATERIAL.

STEP 5B

REPEAT STEPS 3B AND 4B AT LEAST THREE TIMES AND AS NEEDED TO FILL THE VOIDS IN THE STREAMBANK MATERIAL. CONTRACTOR SHALL OBTAIN ENGINEER APPROVAL THAT THE COMPOST HAS BEEN APPLIED PROPERLY AND IN SUFFICIENT QUANTITY PER THIS DETAIL PRIOR TO SEEDING AND PLANTING.



B OVERBANK COMPOST AMENDMENT PLACEMENT SEQUENCE OF WORK

NOT TO SCALE

STEP 1C

EXCAVATE CHANNEL AS NECESSARY TO THE LINES AND GRADES SHOWN ON THESE PLANS AND PLACE CONSTRUCTION GEOTEXTILE.

STEP 2C

PLACE A LIFT OF ROUNDED REVETMENT ROCK WITH A MAXIMUM THICKNESS OF 12 INCHES. SOME OF THE LARGER PIECES OF ROCK MAY EXCEED THIS LIFT THICKNESS.

STEP 3C

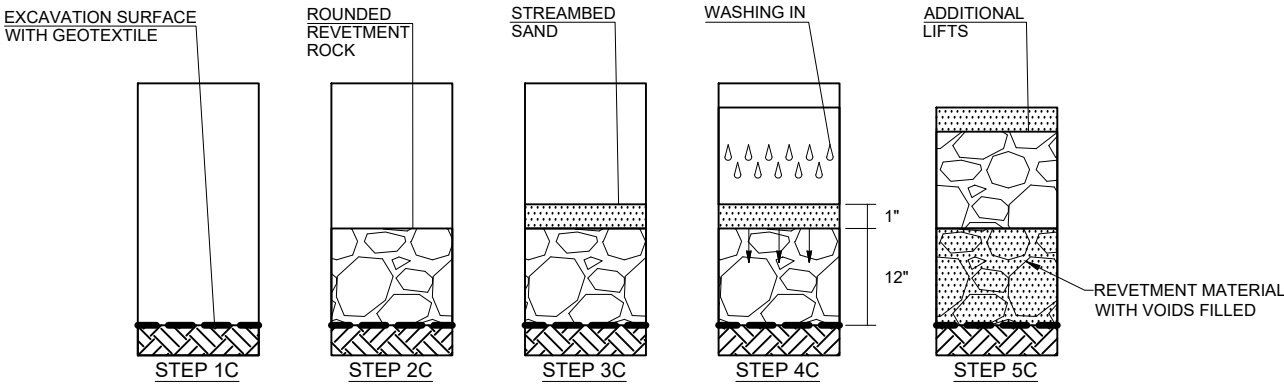
PLACE A LAYER OF STREAMBED SAND UNIFORMLY OVER THE TOP OF THE ROUNDED REVETMENT ROCK. THE THICKNESS OF THE STREAMBED SAND LAYER SHALL BE A MINIMUM THICKNESS OF 1 INCH AT ALL POINTS WITHIN THE LIMITS OF ROUNDED REVETMENT ROCK PLACEMENT.

STEP 4C

APPLY WATER TO SAND LAYER TO WASH DOWN INTO THE ROUNDED REVETMENT ROCK. SAND AND WATER SHALL BE APPLIED IN 1 INCH LIFTS AS NEEDED UNTIL THE FLOW NO LONGER GOES SUBSURFACE THROUGHOUT THE ENTIRE PROJECT LIMITS. SUFFICIENT FILLING OF THE VOIDS SHALL BE APPROVED BY THE ENGINEER IN THE FIELD.

STEP 5C

REPEAT STEPS 2C-4C AS NEEDED TO CONSTRUCT THE REVETMENT SECTION TO THE REQUIRED THICKNESS AND ELEVATION SHOWN ON THE PLANS.



C ROUNDED REVETMENT ROCK PLACEMENT SEQUENCE OF WORK

NOT TO SCALE

STEP 1D

EXCAVATE CHANNEL AS NECESSARY TO THE LINES AND GRADES SHOWN ON THESE PLANS AND PLACE CONSTRUCTION GEOTEXTILE.

STEP 2D

PLACE A LIFT OF ROCK FOR EROSION AND SCOUR PROTECTION CLASS B WITH A MAXIMUM AVERAGE THICKNESS OF 24 INCHES. SOME OF THE LARGER PIECES OF ROCK MAY EXCEED THIS LIFT THICKNESS.

STEP 3D

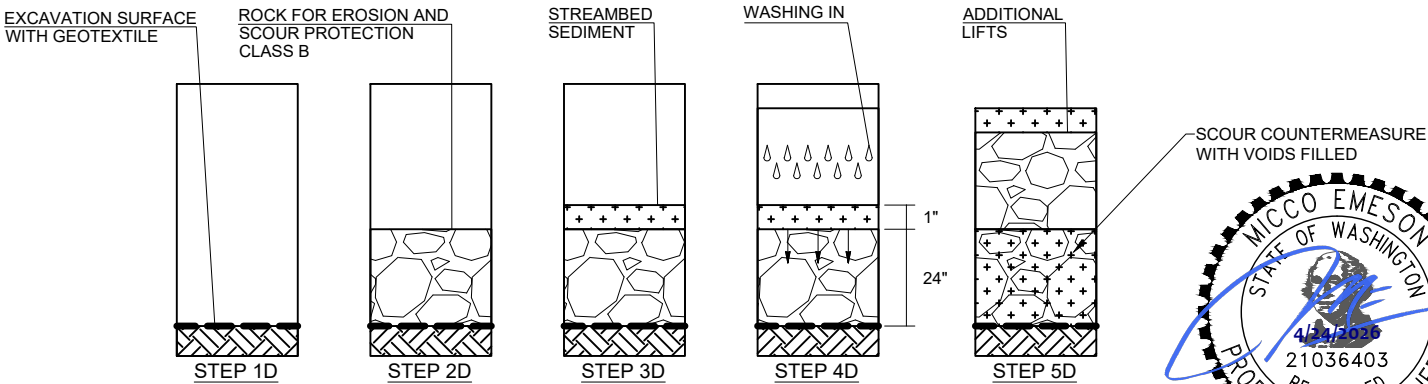
PLACE A LAYER OF STREAMBED SEDIMENT UNIFORMLY OVER THE TOP OF THE SCOUR COUNTERMEASURE MATERIAL. THE THICKNESS OF THE STREAMBED SEDIMENT LAYER SHALL BE A MINIMUM THICKNESS OF 1 INCH AT ALL POINTS WITHIN THE LIMITS OF SCOUR COUNTERMEASURE PLACEMENT.

STEP 4D

APPLY WATER TO SEDIMENT LAYER TO WASH DOWN INTO THE SCOUR COUNTERMEASURE MATERIAL. SEDIMENT AND WATER SHALL BE APPLIED IN 1 INCH LIFTS AS NEEDED UNTIL THE FLOW NO LONGER GOES SUBSURFACE THROUGHOUT THE ENTIRE PROJECT LIMITS. SUFFICIENT FILLING OF THE VOIDS SHALL BE APPROVED BY THE ENGINEER IN THE FIELD.

STEP 5D

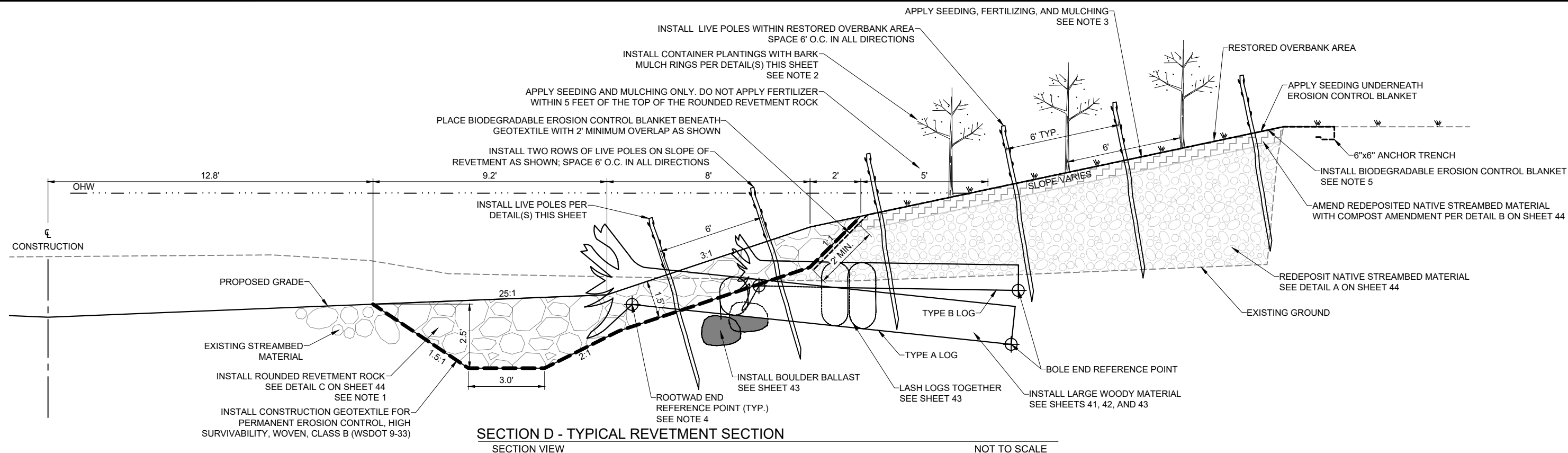
REPEAT STEPS 2D-4D AS NEEDED TO CONSTRUCT THE SCOUR COUNTERMEASURE SECTION TO THE REQUIRED THICKNESS AND ELEVATION SHOWN ON THE PLANS.



D SCOUR COUNTERMEASURE PLACEMENT SEQUENCE OF WORK

NOT TO SCALE





SECTION D - TYPICAL REVETMENT SECTION

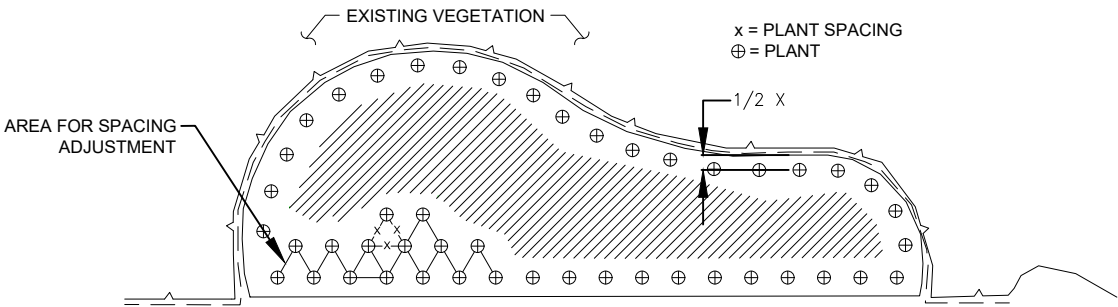
SECTION VIEW

NOT TO SCALE

STA 22+23.20 TO 24+79.60

NOTES

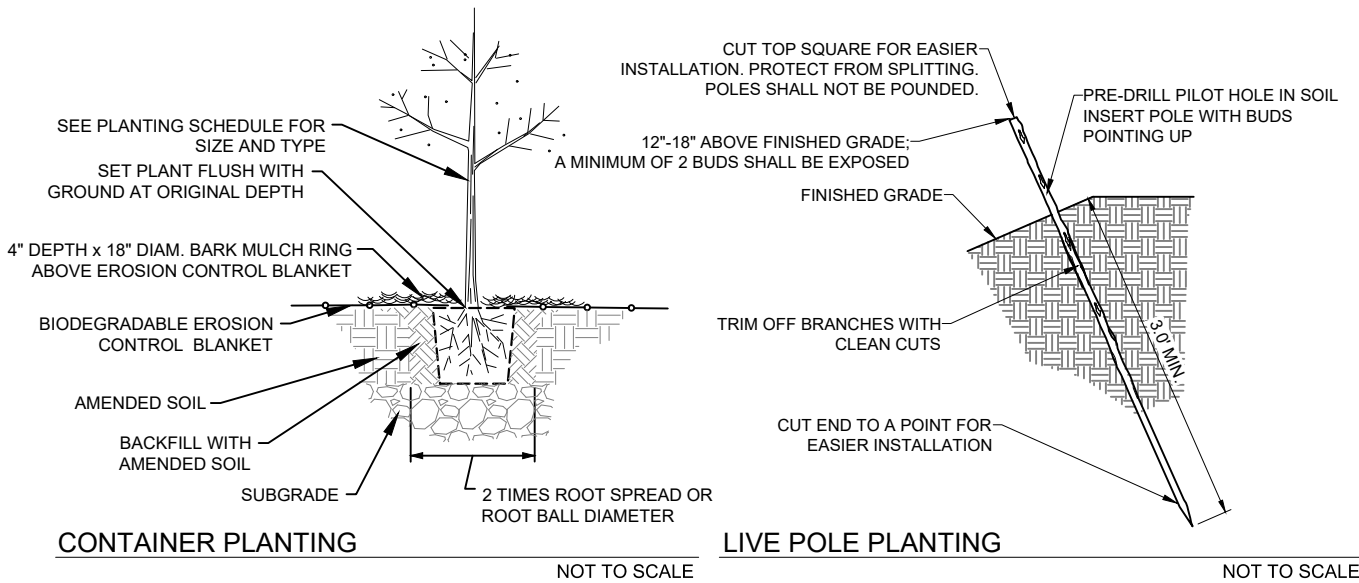
1. ROUNDED REVETMENT ROCK SHALL CONSIST OF 40% STREAMBED BOULDERS TYPE ONE (9-03.11 (5)) , 30% 12" STREAMBED COBBLES (9-03.11 (4)) , AND 30% STREAMBED SEDIMENT (9-03.11 (1)) .
2. INSTALL CONTAINER PLANTINGS IN GROUPS OF 3-7 PLANTS OF THE SAME SPECIES.
3. SEED MIX AND FERTILIZER RATE AND COMPOSITION SHALL BE PER SPECIAL PROVISIONS. MULCH SHALL BE LONG TERM MULCH PER 8-02.3 (11) A AND AT RATE OF 3500 LBS/ACRE.
4. ROOTWAD PLACEMENT VARIES ALONG THE REVETMENT SUCH THAT THE ROOTWADS DO NOT PROJECT INTO THE CHANNEL UNIFORMLY, I.E. THE DISTANCE FROM THE ROOTWAD TO THE REVETMENT TOE IS NOT CONSTANT. USE STATION, OFFSET, AND ELEVATION DATA PROVIDED ON SHEET 42.
5. INSTALL BIODEGRADABLE EROSION CONTROL BLANKET (WSDTO STD. SPEC 9-14.6 (2)) PER WSDOT STANDARD PLAN I-60.10-01. ALL BIODEGRADABLE EROSION CONTROL BLANKETS WILL CONFORM TO WSDOT STD. SPEC. 9-14.6 (2) A, REGARDLESS OF SLOPE. THE BLANKET SHALL BE PLACED SO THAT THE UPSTREAM STRIP WILL OVERLAP THE NEXT DOWNSTREAM STRIP. WHEN PLACED ON SLOPES, EACH STRIP SHALL OVERLAP THE NEXT DOWNHILL STRIP. ANCHOR BIODEGRADABLE EROSION CONTROL BLANKET WITH 2" X 4" X 18" WOOD STAKE, RIPPED DIAGONALLY. DRIVE STAKES UNTIL 1"-2" REMAINS ABOVE BLANKET.



PLANTING AREA LAYOUT

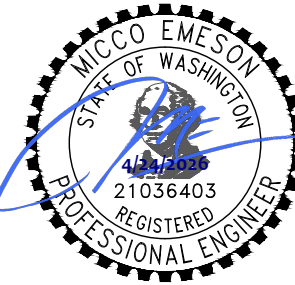
PLAN VIEW

NOT TO SCALE



PLANTING SCHEDULE

M	COMMON NAME	CONDITION	QTY	SIZE	SPACING	REMARKS
TREES						
SALIX LUCIDA	PACIFIC WILLOW	LIVE POLE	90	2"-3.5" DIA., 4.5' LENGTH	6' O.C.	INSTALL IN REVETMENT SLOPE AND OVERBANK
BETULA OCCIDENTALIS	WATER BIRCH	NO. 2 CONTAINER	66	18" MIN. HT.	6' O.C.	INSTALL IN OVERBANK, NOTE 2
SHRUBS						
PRUNUS VIRGINIANA	COMMON CHOKECHERRY	NO. 2 CONTAINER	66	18" MIN. HT.	6' O.C.	INSTALL IN OVERBANK, NOTE 2
PHILADELPHUS LEWISII	MOCK ORANGE	NO. 1 CONTAINER	66	18" MIN. HT.	6' O.C.	INSTALL IN OVERBANK, NOTE 2
SALIX EXIGUA	SANDBAR WILLOW	NO. 1 CONTAINER	66	12" MIN. HT.	6' O.C.	INSTALL IN OVERBANK, NOTE 2
CORNUS SERICEA	RED OSIER DOGWOOD	NO. 1 CONTAINER	66	12" MIN. HT.	6' O.C.	INSTALL IN OVERBANK, NOTE 2
GRASSES						
LEYMUS CINEREUS	BASIN WILDRYE	SEED	0.3 AC			APPLY UNDER TOP LAYER OF EROSION CONTROL FABRIC
ELYMUS LANCEOLATUS	STREAMBANK WHEATGRASS	SEED	0.3 AC			APPLY UNDER TOP LAYER OF EROSION CONTROL FABRIC



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DESIGNER: RHW								
CHECKED: BJME								
PROJ. ENG.: MAEM						JOB NUMBER		
APPROVED BY:						22-03		
4/23/2026		REV DATE	REVISION	BY	APP'D			



Walla Walla County

PUBLIC WORKS DEPARTMENT

4/23/2026
PLOT DATE



WALLULA AVENUE BRIDGE

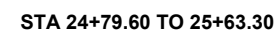
STREAM RESTORATION DETAILS

SHEET

45

45 OF 4

1. ROUNDED REVETMENT ROCK SHALL CONSIST OF 40% STREAMBED BOULDERS TYPE ONE (9-03.11 (5)) , 30% 12" STREAMBED COBBLE (9-03.11 (4)) , AND 30% STREAMBED SEDIMENT (9-03.11 (1)) .
2. INSTALL BIODEGRADABLE EROSION CONTROL BLANKET (WSDOT STD. SPEC 9-14.6 (2)) PER WSDOT STANDARD PLAN I-60.10-01. ALL BIODEGRADABLE EROSION CONTROL BLANKETS WILL CONFORM TO WSDOT STD. SPEC. 9-14.6 (2) A, REGARDLESS OF SLOPE. THE BLANKET SHALL BE PLACED SO THAT THE UPSTREAM STRIP WILL OVERLAP THE NEXT DOWNSTREAM STRIP. WHEN PLACED ON SLOPES, EACH STRIP SHALL OVERLAP THE NEXT DOWNHILL STRIP. ANCHOR BIODEGRADABLE EROSION CONTROL BLANKET WITH 2" X 4" X 18" WOOD STAKE, RIPPED DIAGONALLY. DRIVE STAKES UNTIL 1"-2" REMAINS ABOVE BLANKET.
3. ROOTWAD PLACEMENT VARIES ALONG THE REVETMENT SUCH THAT THE ROOTWADS DO NOT PROJECT INTO THE CHANNEL UNIFORMLY, I.E. THE DISTANCE FROM THE ROOTWAD TO THE REVETMENT TOE IS NOT CONSTANT. USE STATION, OFFSET, & ELEVATION DATA PROVIDED ON SHEET 42.



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DRAWN: RHW						10	WASH	BRS-L360(001) TA-7561
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CHECKED: BJME								
PROJ. ENG.: MAEM								
APPROVED BY:								
4/23/2026		REV DATE	REVISION	BY	APP'D	JOB NUMBER		22-03



**DAVID EVANS
ASSOCIATES INC.**
908 N Howard St. Ste 200
Spokane, WA 99201
Phone: 509.927.9997

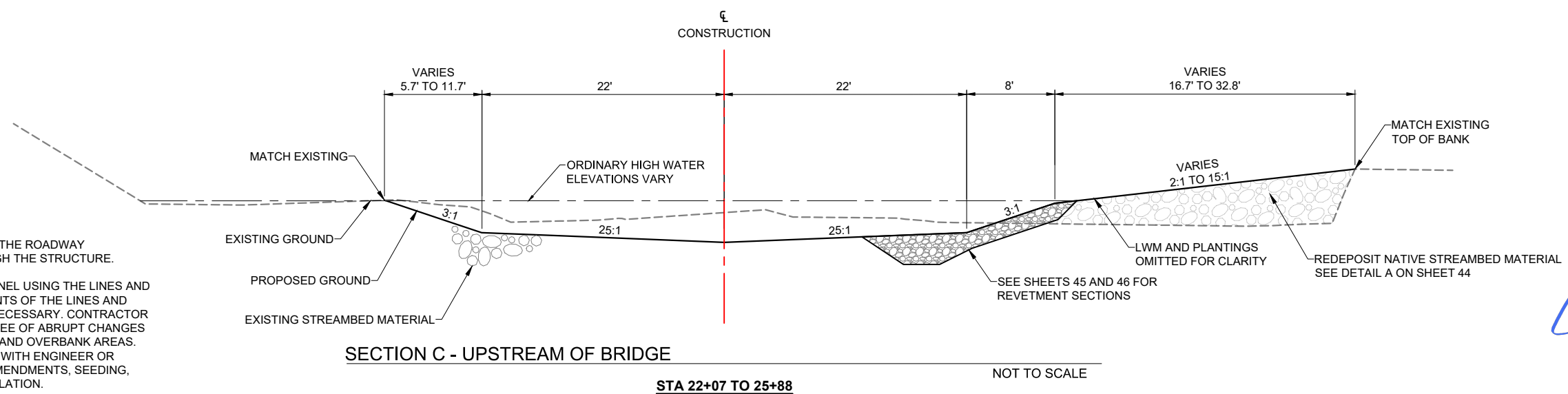
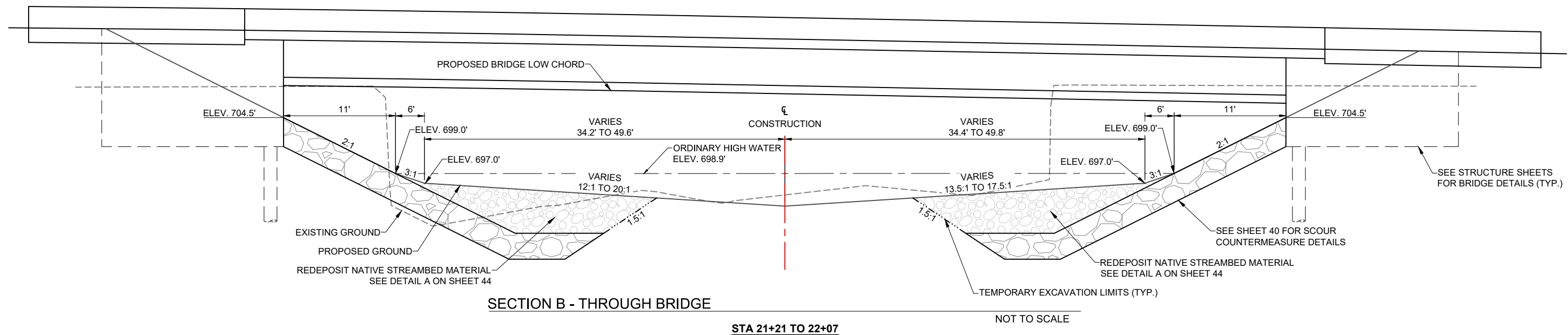
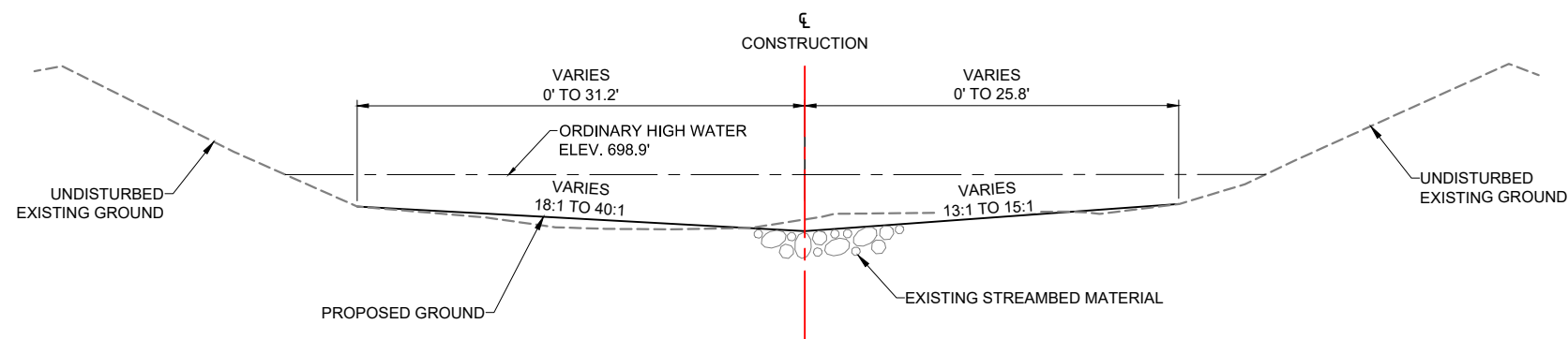
Walla Walla County

PUBLIC WORKS DEPARTMENT

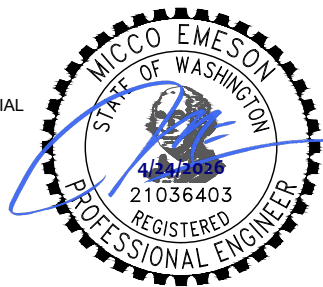
4/23/2026
PLOT DATE



WALLULA AVENUE BRIDGE		SHEET 46 46 OF 47
TYPICAL REVETMENT SECTIONS		



- NOTES:**
1. CHANNEL SECTION B IS TAKEN PARALLEL TO THE ROADWAY ALIGNMENT DUE TO CHANNEL SKEW THROUGH THE STRUCTURE.
 2. CONTRACTOR SHALL CONSTRUCT THE CHANNEL USING THE LINES AND GRADES INDICATED. SOME FIELD ADJUSTMENTS OF THE LINES AND GRADES FOR THE FINISH GRADING MAY BE NECESSARY. CONTRACTOR SHALL PRODUCE FINISH GRADING THAT IS FREE OF ABRUPT CHANGES IN THE LINES AND GRADES OF THE CHANNEL AND OVBANK AREAS. CONFIRM ACCEPTABILITY OF FINAL GRADING WITH ENGINEER OR COUNTY REPRESENTATIVE PRIOR TO SOIL AMENDMENTS, SEEDING, AND PERMANENT EROSION CONTROL INSTALLATION.



P:\WWWALL00P\W0001\0400CAD\SHEETS\WALL00PW0001_SHEET_HYDR_SECTIONS.dwg						REGION NO.	STATE	FEDERAL AID PROJECT NO. BRS-L360(001) TA-7561
DRAWN: RHW					10	WASH		
DESIGNER: RHW								
CHECKED: MAEM								
PROJ. ENG.: MAEM					JOB NUMBER			
APPROVED BY:					22-03			
9/17/2025	REV DATE	REVISION	BY	APP'D				



Walla Walla County

PUBLIC WORKS DEPARTMENT



WALLULA AVENUE BRIDGE

TYPICAL STREAM SECTIONS

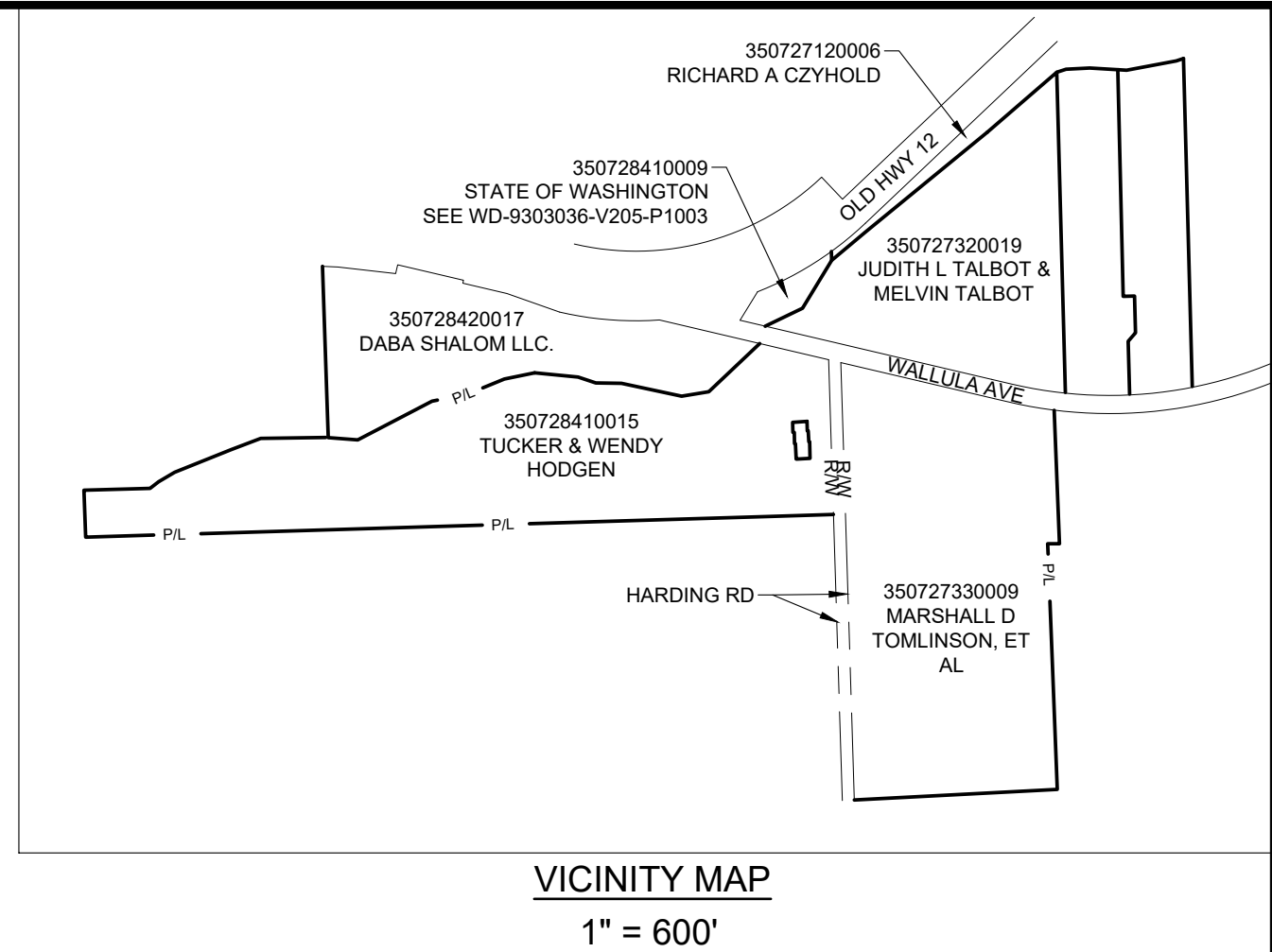
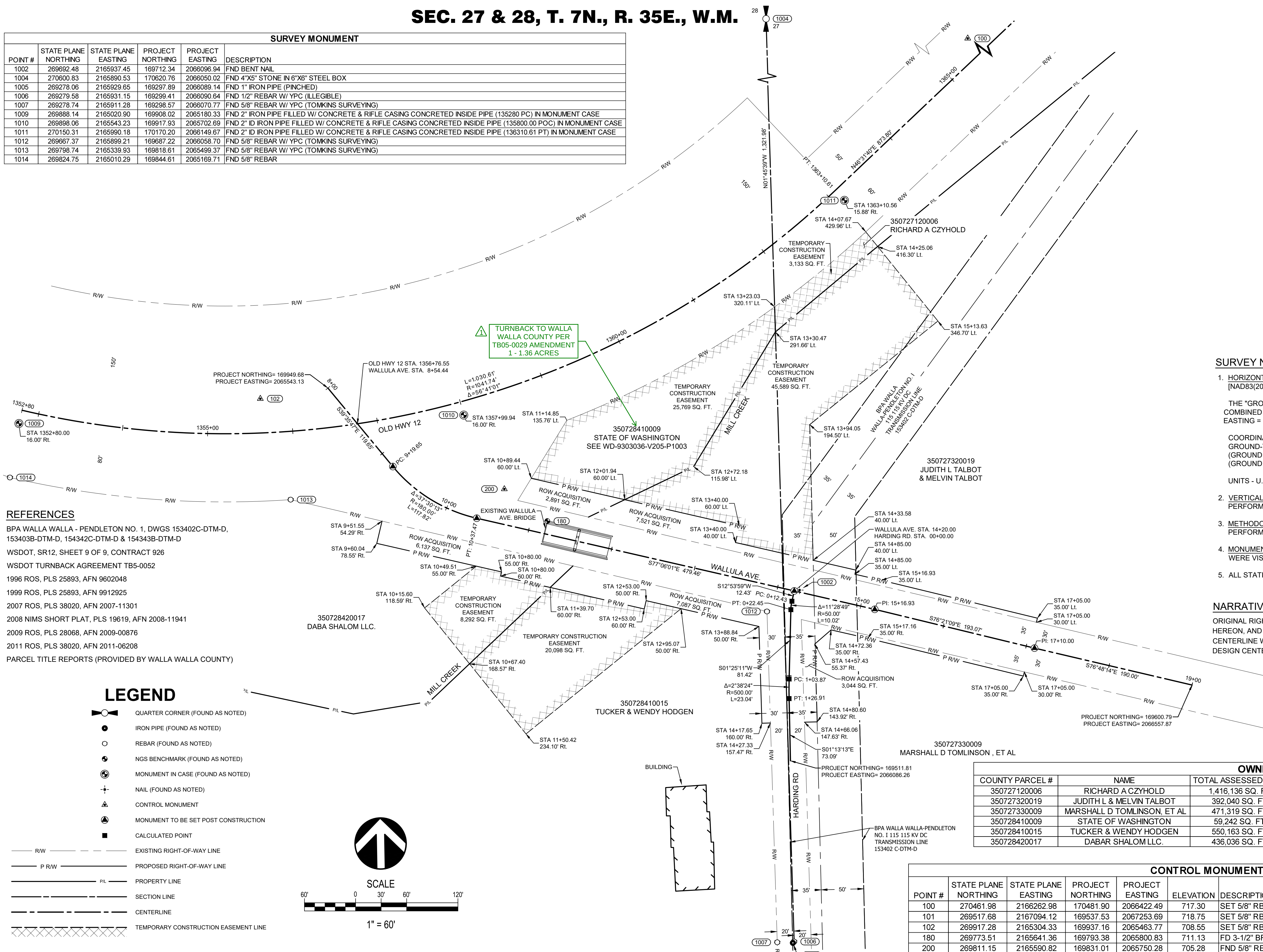
SHEET

47

7 OF 47

28 1004 27

SURVEY MONUMENT					
POINT #	STATE PLANE NORTHING	STATE PLANE EASTING	PROJECT NORTHING	PROJECT EASTING	DESCRIPTION
1002	269692.48	2165997.45	169712.34	2068090.94	FND BENT NAIL
1004	270600.83	2165890.53	170620.78	2068050.02	FND 4"x6" STONE IN 6"x6" STEEL BOX
1005	269278.06	2165929.65	169237.89	2068095.14	FND 1" IRON PIPE (PINCHED)
1006	269279.58	2165931.15	169239.41	2068090.64	FND 1/2" REBAR W/ YPC (ILLEGIBLE)
1007	269278.74	2165911.28	169238.57	2068070.77	FND 5/8" REBAR W/ YPC (TOMKINS SURVEYING)
1009	269888.14	2165020.90	169908.02	2065180.33	FND 2" IRON PIPE FILLED W/ CONCRETE & RIFLE CASING CONCRETED INSIDE PIPE (135280 PC) IN MONUMENT CASE
1010	269898.06	2165543.23	169917.93	2065702.69	FND 2" ID IRON PIPE FILLED W/ CONCRETE & RIFLE CASING CONCRETED INSIDE PIPE (135800.00 POC) IN MONUMENT CASE
1011	270150.31	2165980.18	170170.20	2066149.67	FND 2" ID IRON PIPE FILLED W/ CONCRETE & RIFLE CASING CONCRETED INSIDE PIPE (136310.61 PT) IN MONUMENT CASE
1012	269667.37	2165899.21	169687.22	2066058.70	FND 5/8" REBAR W/ YPC (TOMKINS SURVEYING)
1013	269879.74	2165339.93	169818.61	2065499.37	FND 5/8" REBAR W/ YPC (TOMKINS SURVEYING)
1014	269824.75	2165010.29	169844.61	2065169.71	FND 5/8" REBAR



SURVEY NOTES

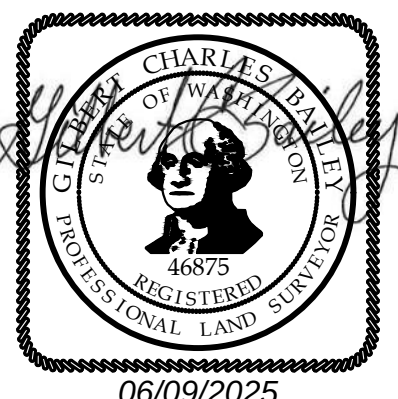
1. HORIZONTAL DATUM: "GROUND" COORDINATES BASED ON WASHINGTON STATE PLANE, SOUTH ZONE [NAD83(2011) EPOCH 2010.0000]. BASIS OF BEARING IS GRID NORTH.
- THE "GROUND SYSTEM" WAS DEVELOPED BY SCALING STATE PLANE COORDINATES FROM 0.0 USING A COMBINED SCALE FACTOR = 1.000073635, AND THEN APPLYING A FALSE NORTHING = -100000.00 AND A FALSE EASTING = -100000.00.
- COORDINATE CONVERSION EQUATION:
- GROUND-TO-STATE PLANE SCALE FACTOR = 0.99992637 (RECIPROCAL OF 1.000073635)
(GROUND NORTHING + 100000.000) * 0.99992637 = STATE PLANE NORTHING
(GROUND EASTING + 100000.000) * 0.99992637 = STATE PLANE EASTING
- UNITS - U.S. SURVEY FEET
2. VERTICAL DATUM NAVD-88. A CLOSED LEVEL LOOP THAT ORIGINATING FROM NGS BM SA0180 WAS PERFORMED THROUGH THE CONTROL.
3. METHODOLOGY FIELD MEASUREMENT FOR TOPOGRAPHIC AND BOUNDARY FOR THIS SURVEY WERE PERFORMED USING A TRIMBLE S7 TOTAL STATION, TRIMBLE R10-2 & R121 GPS RECEIVERS.
4. MONUMENTATION VISITATION ALL SURVEY MONUMENTS AND OTHER SURVEY MARKERS SHOWN HEREON WERE VISITED DURING APRIL 2023 UNLESS OTHERWISE INDICATED.
5. ALL STATIONS SHOWN ARE FROM THE DESIGN ALIGNMENT FOR THE WALLULA AVE. BRIDGE.

NARRATIVE

ORIGINAL RIGHT-OF-WAY (RW) WAS RESOLVED FROM RECOVERED RECORD MONUMENTS, REFERENCES LISTED HEREON, AND VESTING DEED DESCRIPTIONS. THE WALLULA AVE CENTERLINE SHOWN HEREON IS THE DESIGN CENTERLINE WHICH VARIES FROM THE ORIGINAL RW CENTERLINE. ALL STATION/OFFSETS ARE RELATIVE TO THE DESIGN CENTERLINE

OWNERSHIPS						
COUNTY PARCEL #	NAME	TOTAL ASSESSED AREA	R/W	PERM. EASMT	TEMP. EASMT	REMAINDER
350727120006	RICHARD A CZYHOLD	1,416.136 SQ. FT.	N/A	N/A	3,133 SQ. FT.	1,416.136 SQ. FT.
350727320019	JUDITH L & MELVIN TALBOT	392,040 SQ. FT.	7,521 SQ. FT.	N/A	45,589 SQ. FT.	384,519 SQ. FT.
350727330009	MARSHALL D TOMLINSON, ET AL	471,319 SQ. FT.	3,044 SQ. FT.	N/A	N/A	468,275 SQ. FT.
350728410009	STATE OF WASHINGTON	59,242 SQ. FT.	2,891 SQ. FT.	N/A	25,769 SQ. FT.	56,351 SQ. FT.
350728410015	TUCKER & WENDY HODGEN	550.163 SQ. FT.	7,087 SQ. FT.	N/A	20,098 SQ. FT.	543,076 SQ. FT.
350728420017	DABAR SHALOM LLC.	436.036 SQ. FT.	6,137 SQ. FT.	N/A	8,292 SQ. FT.	429,899 SQ. FT.

CONTROL MONUMENT						
POINT #	STATE PLANE NORTHING	STATE PLANE EASTING	PROJECT NORTHING	PROJECT EASTING	ELEVATION	DESCRIPTION
100	270461.98	2166262.98	170481.90	2066422.49	717.30	SET 5/8" RBR W/ 2-1/2" ALUMINUM CAP STAMPED (DEA CONTROL 100 2023)
101	269517.68	2167094.12	169537.53	2067253.69	718.75	SET 5/8" RBR W/ 2-1/2" ALUMINUM CAP STAMPED (DEA CONTROL 101 2023)
102	269917.28	2165304.33	169937.16	2065463.77	708.55	SET 5/8" RBR W/ 2-1/2" ALUMINUM CAP STAMPED (DEA CONTROL 100 2023)
180	269773.51	2165641.36	167993.38	2065800.83	711.13	FD 3-1/2" BRASS CAP STAMPED (WALLA WALLA COUNTY EL. 708.54)
200	269811.15	2165590.82	169831.01	206750.28	705.28	FND 5/8" REBAR W/ RPC STAMPED (TETRACHEX SURVEY CONTROL)



P:\N\WALL00P\W0001\0400CAD\BASE\RIGHT-DF-WAY\WALL00P\W0001_SV_RW.dwg					REGION NO.	STATE	FEDERAL AID PROJECT NO. BRS-L360 (001) TA-7561
DRAWN: DHM	05/06/2026	 WSDOT TURN BACK	DLP	GCSA	10	WASH	
DESIGNER: DHM							
CHECKED: DLP							
PROJ. ENG.:					JOB NUMBER		
APPROVED BY: GCB					CRP 22-03		
6/5/2025	REV DATE	REVISION	BY	APP'D			



**DAVID EVANS
AND ASSOCIATES INC.**
908 N Howard St. Ste 300
Spokane, WA 99201
Phone: 509.327.8697

Walla Walla County

PUBLIC WORKS DEPARTMENT

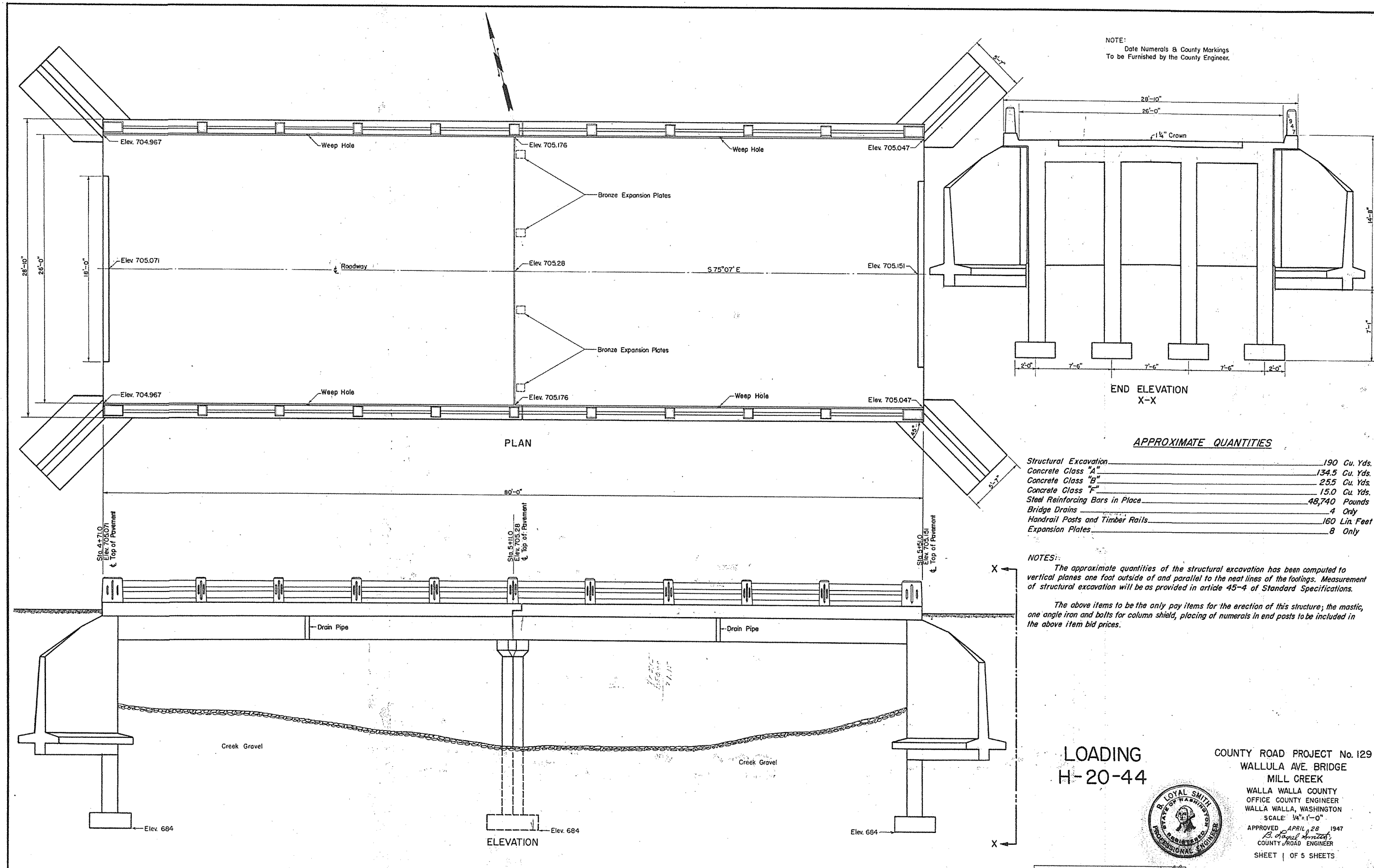
6/5/2025
PLOT DATE

WALLULA AVE. BRIDGE REPLACEMENT

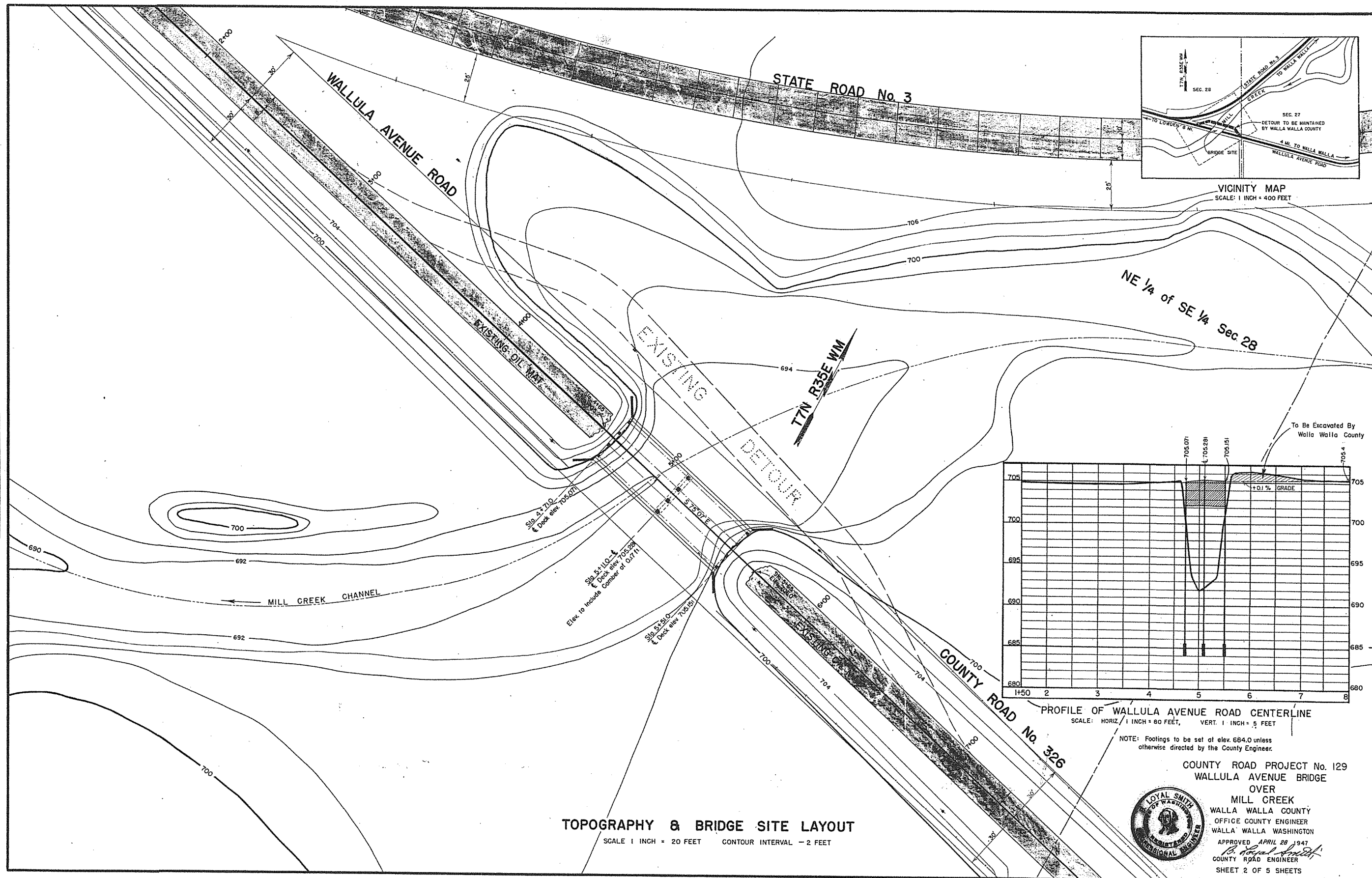
RIGHT OF WAY PLAN

SHEET
1
1 OF 1

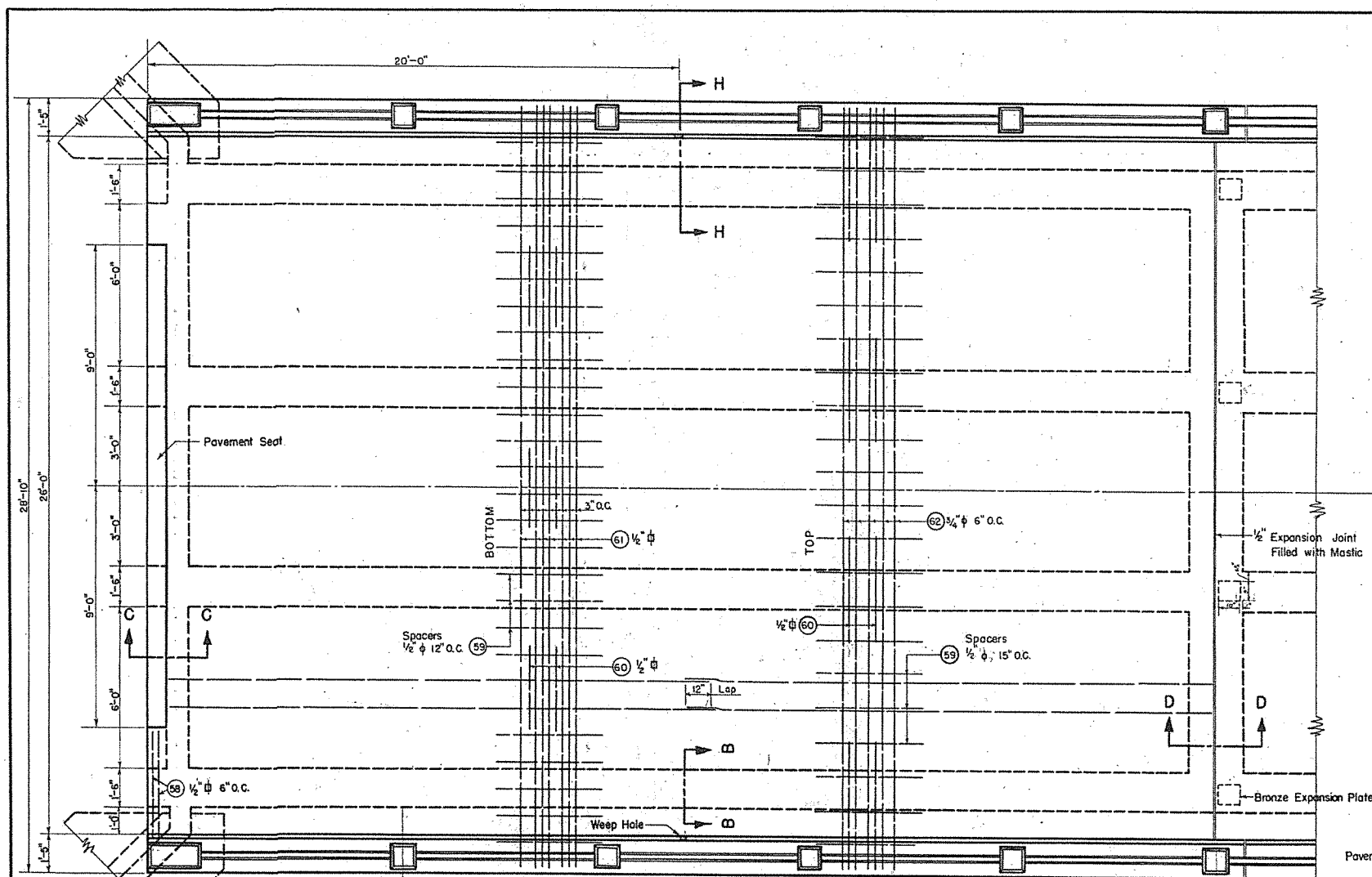
DESIGNED	BY	DATE
DETAILED	B. L. S.	4-28-47
TRACED	M. E. S.	"
CHECKED	O. D. S.	"
	B. L. S. M. E. S. O. D. S.	"



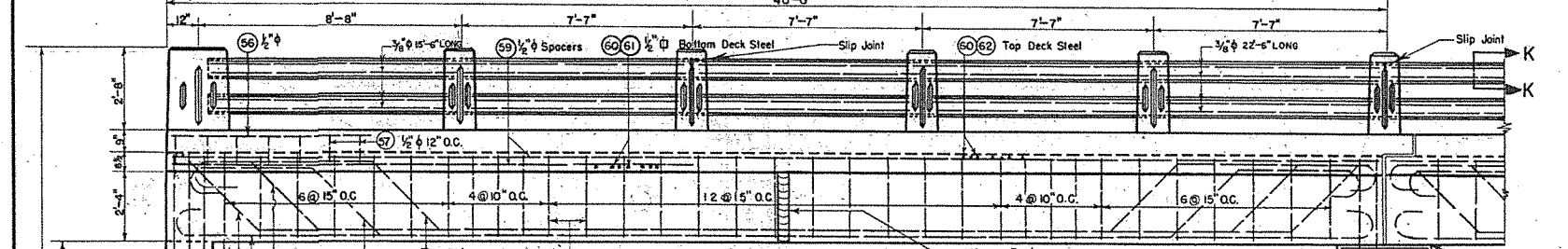
DATE	10-27
BY	L.S.
REVISION	0.5
NOTED	0.5
TRACED	0.5
CHECKED	0.5
NOTE BOOK	NO. 292



DESIGNED	BY	DATE
DETAILED	B.L.S.	4-28-47
TRACED	M.F.S.	"
CHECKED	O.D.S.	"
	B.L.S. M.F.S. O.D.S.	"

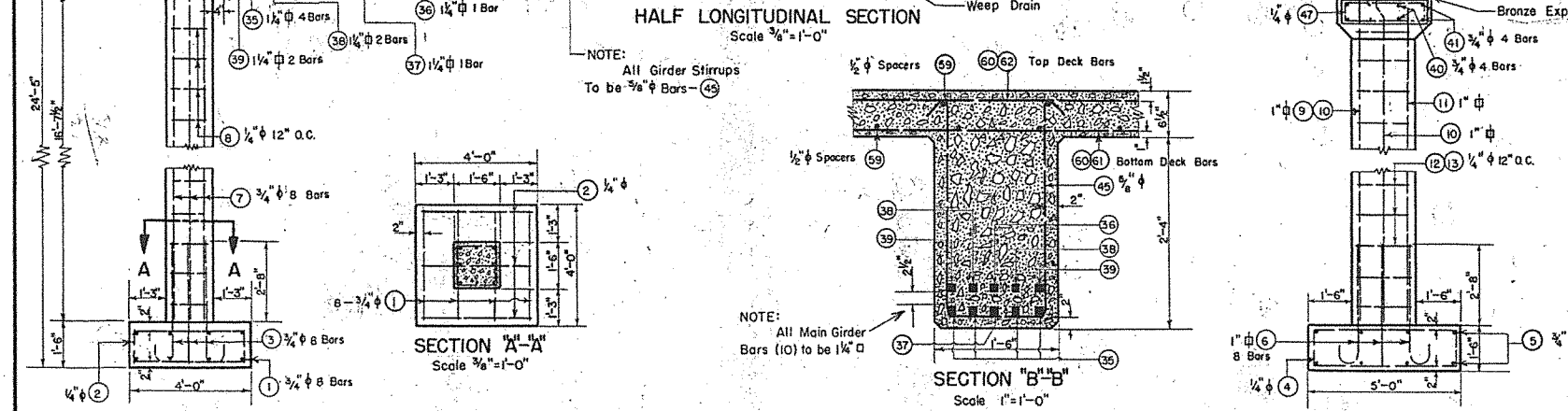


HALF PLAN
Scale $\frac{3}{8}'' = 1'-0''$
40'-0"



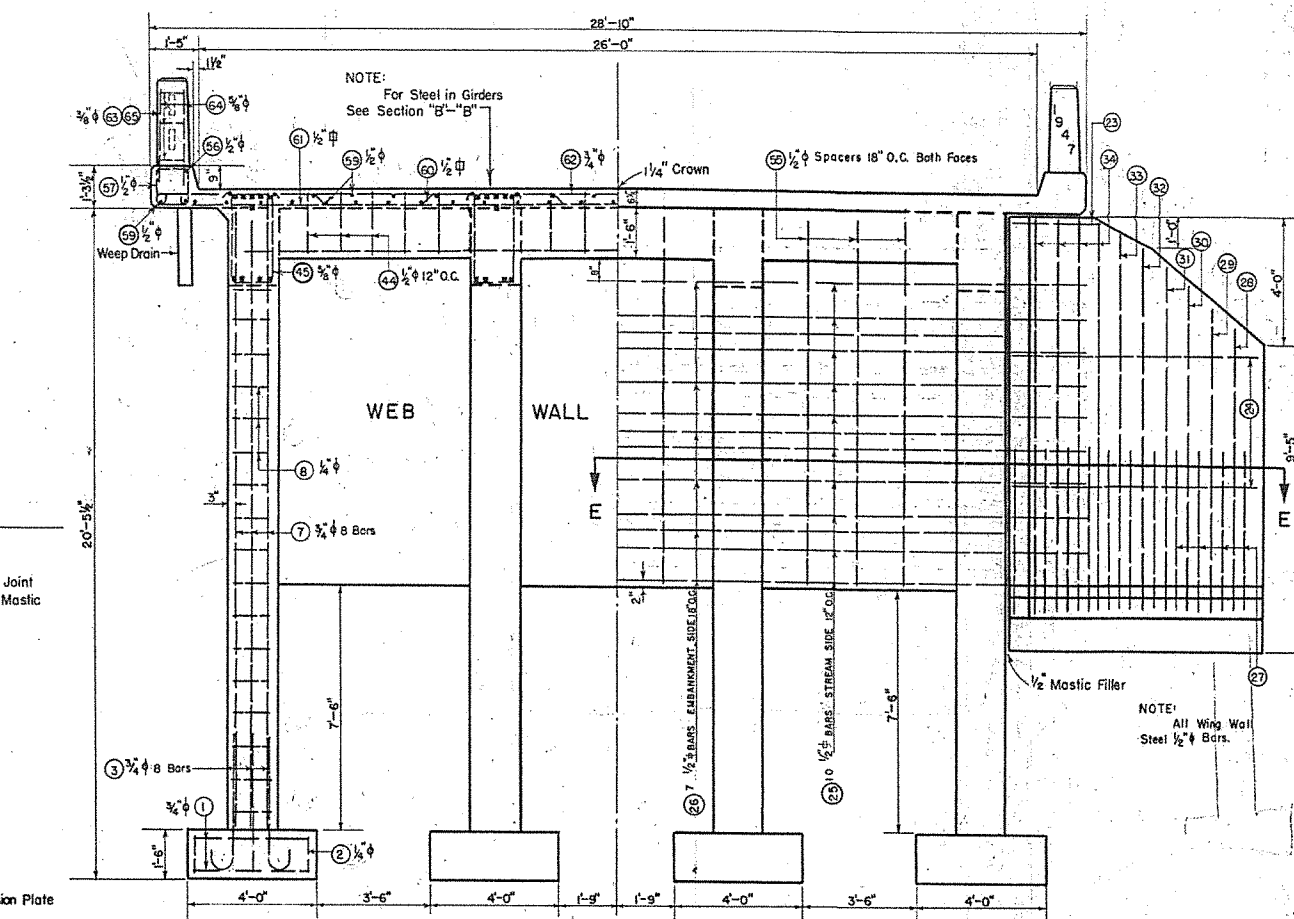
HALF LONGITUDINAL SECTION
Scale $\frac{3}{8}" = 1'-0"$

NOTE: All Girder Stirrups
To be $\frac{3}{8}$ " ϕ Bars - (45)

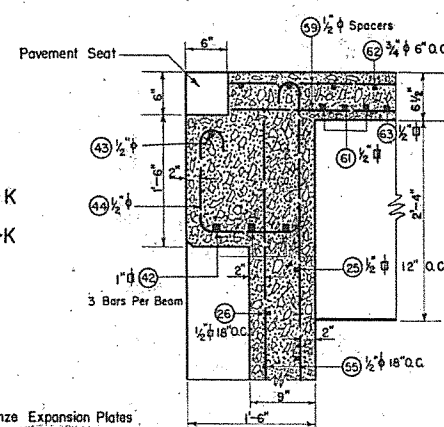


SECTION "A"-A'
Scale 3/8"=1'-0"

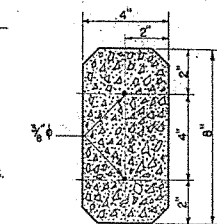
SECTION "B-B"
Scale 1"=1'-0"



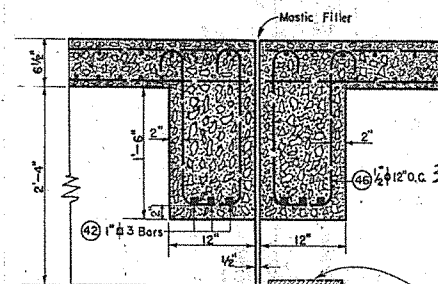
END ELEVATION
Scale $\frac{3}{8}'' = 1' - 0''$



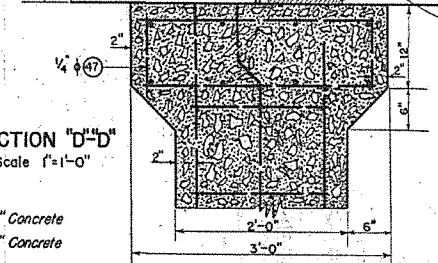
SECTION "C"-C'



SECTION "K-K"
Scale 1" = 0'-3"



SECTION "D"-D'
Scale 1"=10'



Bronze Expansion Plates
8 Required
2 Plates per Girder

SEQUENCE OF POURING CONCRETE

1. Footings _____ Class "F" Concrete
 2. Columns to top of Strut (Center Pier) _____ Class "A" Concrete
Columns to bottom of Web (End Abutments)
 3. Columns to bottom of Cap (Center Pier) _____ Class "A" Concrete
Columns and Webs to bottom of Girders (End Abutments)
 4. Center Pier Cap _____ Class "A" Concrete
 5. Beams, Girders _____ Class "A" Concrete
 6. Wingwall Footings _____ Class "B" Concrete
 7. Wingwalls _____ Class "B" Concrete
 8. Roadway Slab _____ Class "A" Concrete
 9. Curbs _____ Class "A" Concrete
 10. Handrail Posts _____ Class "A" Concrete
- Pours No. 5 and 8 shall each be made in one continuous operation.

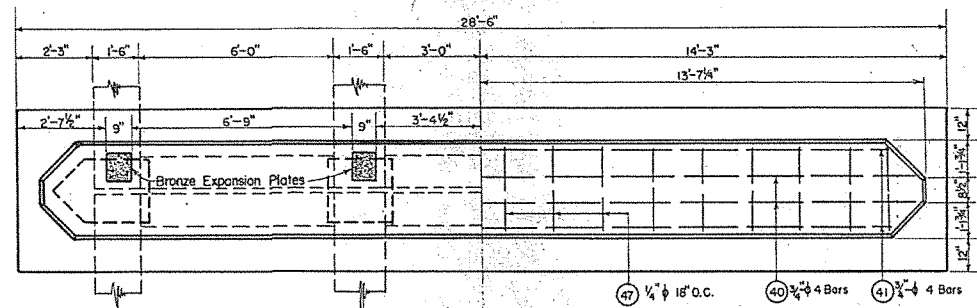
COUNTY ROAD PROJECT No. 129
WALLULA AVE. BRIDGE
MILL CREEK

WALLA WALLA COUNTY
OFFICE COUNTY ENGINEER
WALLA WALLA, WASHINGTON
SCALES AS SHOWN
APPROVED APRIL 2 1947
B. Loyal
COUNTY ROAD ENGINEER
SHEET 3 OF 5 SHEETS

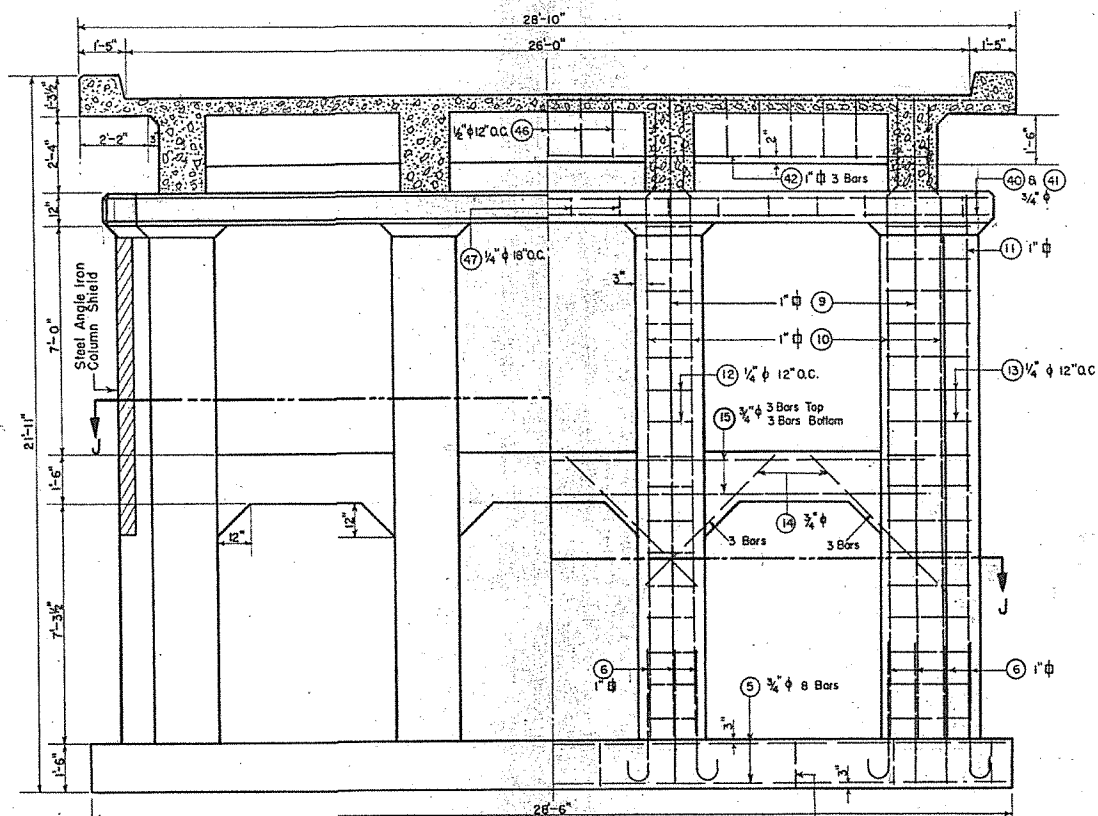


REV. July 29, 1947 Handrail Change	B.L.S.
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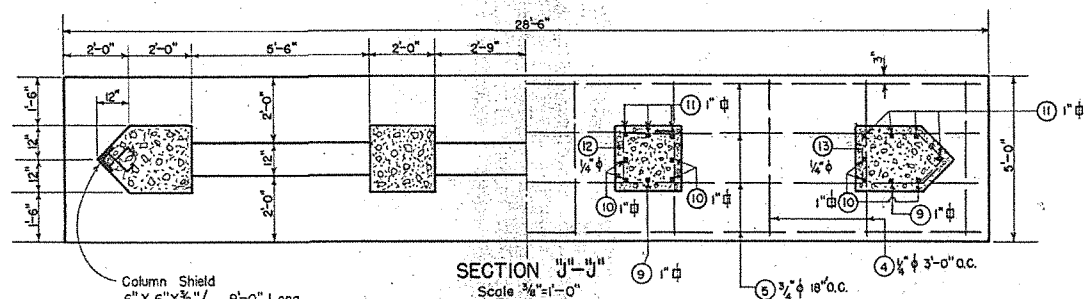
	BY	DATE
DESIGNED	B.L.S.	4-28-47
DETAILED	M.E.S.	"
TRACED	O.D.S.	"
CHECKED	B.L.S. M.E.S. O.D.S.	"



PLAN OF CENTER PIER
Scale $\frac{3}{8}'' = 1'-0''$

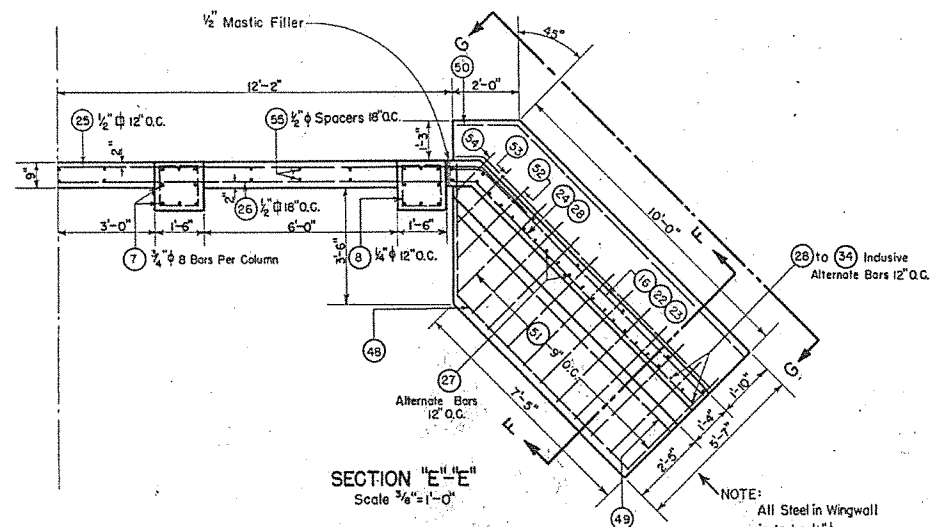


ELEVATION OF CENTER PIER
Scale $\frac{3}{8}'' = 1' - 0''$



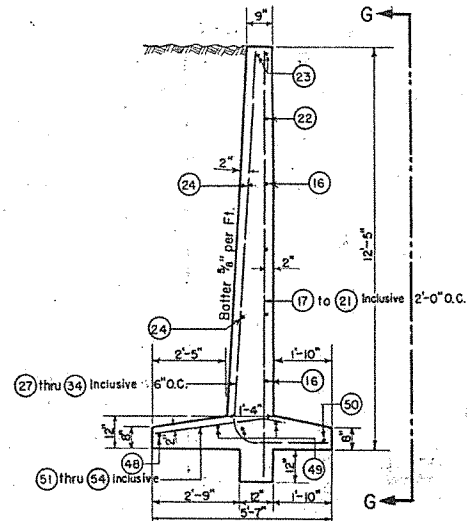
SECTION "J"-J"
Scale 3/8"=1'-0"

Column Shield
6" X 6" X $\frac{3}{8}$ " L 9'-0" Long
Upstream Column Only.
Securely Fastened in Place
with 8 Bolts $\frac{1}{2}$ " X 12" Set
in Concrete.



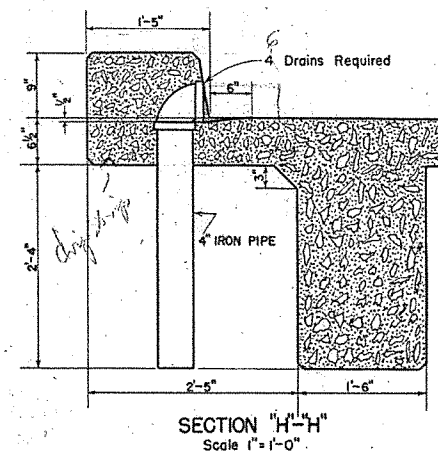
SECTION "E"-E
Scale $\frac{3}{8}'' = 1'-0''$

NOTE: All Steel in Wingwall is to be 1/2"φ.

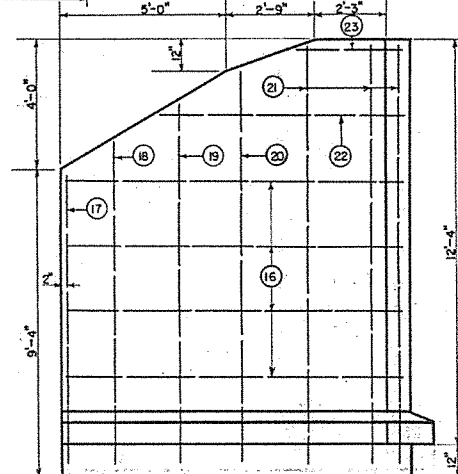


SECTION "F"-F"
Scale $\frac{3}{8}"=1'-0"$

NOTE:
All Steel in Above
View $\frac{1}{2}'' \phi$.

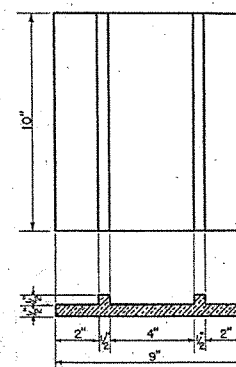


SECTION "H"-H'
Scale 1"=1'-0"



SECTION "G"—"G"
Scale 3/8"=1'-0"

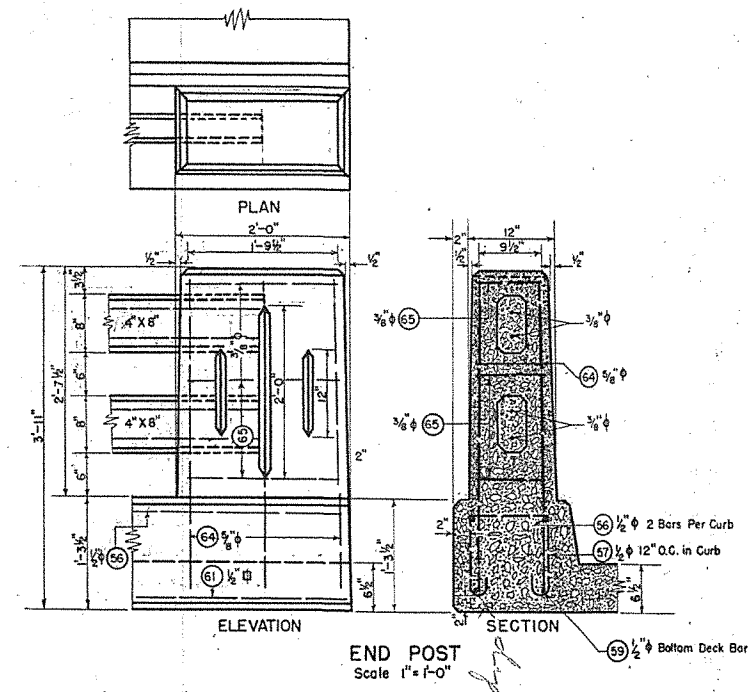
NOTE:
All Steel in Above View $\frac{1}{2}$ " ϕ .
Steel in Stream Face 2'-0" O.C. in
Both Directions.



EXPANSION PLATES
Scale 3"=1'-0"

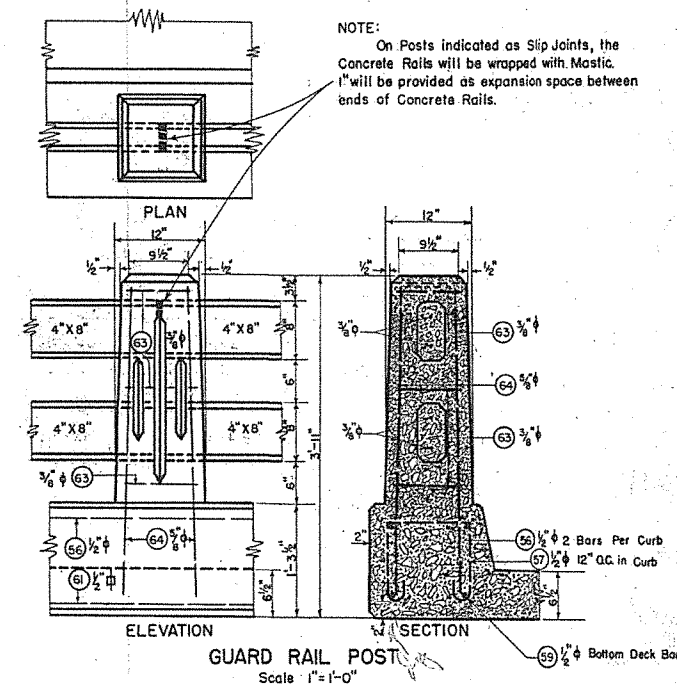
Bronze Expansion Plates as per
Washington State Highway
Specification No. 53-2.05

8 Required



END POST
Scale 1" = 1'-0"

NOTE:
On Posts indicated as Slip Joints, the Concrete Rails will be wrapped with Mastic. 1" will be provided as expansion space between ends of Concrete Rails.



GUARD RAIL POST
Scale: 1" = 1'-0"

COUNTY ROAD PROJECT No. 129

WALLULA AVE. BRIDGE

MILL CREEK

WALLA WALLA COUNTY

OFFICE COUNTY ENGINEER

LLA. WALLA, WASHING
SCALES AS SHOWN

APPROVED APRIL 28 1947

B. Loy al Smith
COUNTY ROAD ENGINEER

COUNTY ROAD ENGINEER
SHEET 4 OF 5 SHEETS



REV. July 29, 1947 Handrail Change	B.L.
------------------------------------	------

BAR LIST

MARK	LOCATION	NO.	SIZE	LENGTH	BENDING DIAGRAM
1	End Pier Footing	64	3/4" ϕ	3'-8"	Straight
2	" " "	24	1/4" ϕ	9'-10"	
3	" " "	64	3/4" ϕ	4'-9"	
4	Center Pier Footing	10	1/4" ϕ	11'-10"	
5	" " "	8	3/4" ϕ	28'-0"	Straight
6	" " "	32	1" ϕ	5'-0"	
7	End Columns	64	3/4" ϕ	18'-9"	Straight
8	" " "	128	1/4" ϕ	5'-4"	
9	Center Columns	4	1" ϕ	18'-9"	Straight
10	" " "	14	1" ϕ	18'-9"	
11	" " "	14	1" ϕ	16'-3"	Straight
12	" " "	32	1/4" ϕ	7'-4"	
13	" " "	32	1/4" ϕ	8'-0"	
14	Knee Bracing	18	3/4" ϕ	5'-6"	Straight
15	Cross Beam	6	3/4" ϕ	24'-0"	
16	Wing Wall	16	1/2" ϕ	10'-7"	
17	" " "	4	1/2" ϕ	9'-0"	Straight
18	" " "	4	1/2" ϕ	9'-9"	
19	" " "	4	1/2" ϕ	11'-0"	
20	" " "	4	1/2" ϕ	12'-0"	
21	" " "	12	1/2" ϕ	12'-9"	
22	" " "	4	1/2" ϕ	7'-8"	
23	" " "	8	1/2" ϕ	3'-6"	
24	" " "	12	1/2" ϕ	10'-3"	
25	Web - End Abutment	40	1/2" ϕ	15'-10"	Straight
26	" " "	14	1/2" ϕ	23'-6"	
27	Wing Wall	44	1/2" ϕ	7'-10"	
28	" " "	4	1/2" ϕ	11'-8"	
29	" " "	4	1/2" ϕ	12'-3"	
30	" " "	4	1/2" ϕ	12'-10"	
31	" " "	4	1/2" ϕ	13'-5"	
32	" " "	4	1/2" ϕ	13'-11"	
33	" " "	4	1/2" ϕ	14'-4"	
34	" " "	16	1/2" ϕ	14'-10"	
35	Girder	32	1 1/4" ϕ	42'-2"	
36	" " "	8	1 1/4" ϕ	43'-6"	

MARK	LOCATION	NO.	SIZE	LENGTH	BENDING DIAGRAM
37	Girder	8	1 1/4" ϕ	43'-0"	
38	" " "	16	1 1/4" ϕ	43'-6"	
39	" " "	16	1 1/4" ϕ	43'-6"	
40	Center Pier Cap	4	3/4" ϕ	27'-0"	Straight
41	" " "	4	3/4" ϕ	25'-0"	
42	Cross Beam Over Piers	12	1" ϕ	25'-6"	
43	End Pier Cross Beam	2	1 1/2" ϕ	22'-6"	Straight
44	" " "	30	1/2" ϕ	5'-2"	
45	Girder	264	5/8" ϕ	7'-8"	
46	Center Pier Cross Beam	30	1/2" ϕ	5'-2"	
47	Center Pier Caps	18	1/4" ϕ	7'-4"	
48	Wing Wall	4	1/2" ϕ	11'-6"	
49	" " "	8	1/2" ϕ	9'-3"	Straight
50	" " "	4	1/2" ϕ	11'-0"	
51	" " "	44	1/2" ϕ	4'-0"	Straight
52	" " "	4	1/2" ϕ	3'-0"	
53	" " "	4	1/2" ϕ	2'-5"	
54	" " "	4	1/2" ϕ	1'-7"	
55	Web - End Abutment	36	1/2" ϕ	11'-3"	
56	Curb	16	1/2" ϕ	21'-3"	
57	" " "	164	1/2" ϕ	3'-10"	
58	Top Deck Ends	8	1/2" ϕ	5'-0"	Straight
59	Longitudinal Deck (Top and Bottom)	200	1/2" ϕ	20'-6"	
60	Top & Bottom of Deck	76	1/2" ϕ	30'-3"	
61	Bottom Deck	224	1/2" ϕ	28'-6"	Straight
62	Top Deck	158	3/4" ϕ	30'-0"	
63	Guard Rail Post	54	3/8" ϕ	3'-4"	
64	" " "	96	3/8" ϕ	3'-6"	Straight
65	End Guard Rail Post	12	3/8" ϕ	5'-4"	

GENERAL NOTES

All material and workmanship shall be in accordance with the requirements of the "Standard Specifications for Road & Bridge Construction" dated January 1941, Department of Highways, State of Washington, together with all current amendments thereto.

Footing Elevations are subject to change depending upon the foundation material encountered, exact footing elevation to be determined in the field by the County Engineer.

Concrete in all footings of this bridge shall be of Class "F".

Concrete in Wingwalls shall be of Class "B".

All other Concrete shall be of Class "A".

All reinforcing steel in this structure shall be of STRUCTURAL grade.

Shear Keys of 2" by 8" material on 1'-4" centers for the width of beams and girders shall be provided at all construction joints between Girders and Slab; and between Beams and Slab. Shear Keys of suitable size shall be provided at all cold construction joints.

All exposed corners shall be chamfered three fourths (3/4) inch.

The thickness of Concrete cover over main reinforcement bars shall be 2" except as otherwise noted on these plans. The minimum cover over stirrups and ties shall be 1".

All falsework shall be released prior to the placing of the concrete Handrail Posts.

COUNTY ROAD PROJECT No 129
WALLULA AVE. BRIDGE
MILL CREEK

WALLA WALLA COUNTY
OFFICE COUNTY ENGINEER
WALLA WALLA, WASHINGTON

APPROVED APRIL 29, 1947
B. Royal Smith
COUNTY ROAD ENGINEER

SHEET 5 OF 5 SHEETS

