

BRIDGE DECK AND JOINT REHABILITATION BUNDLE

C.R.P. 747

CHELAN COUNTY, WASHINGTON



Chelan County
Public Works Department

316 Washington Street, Suite 402
Wenatchee, Washington, 98801

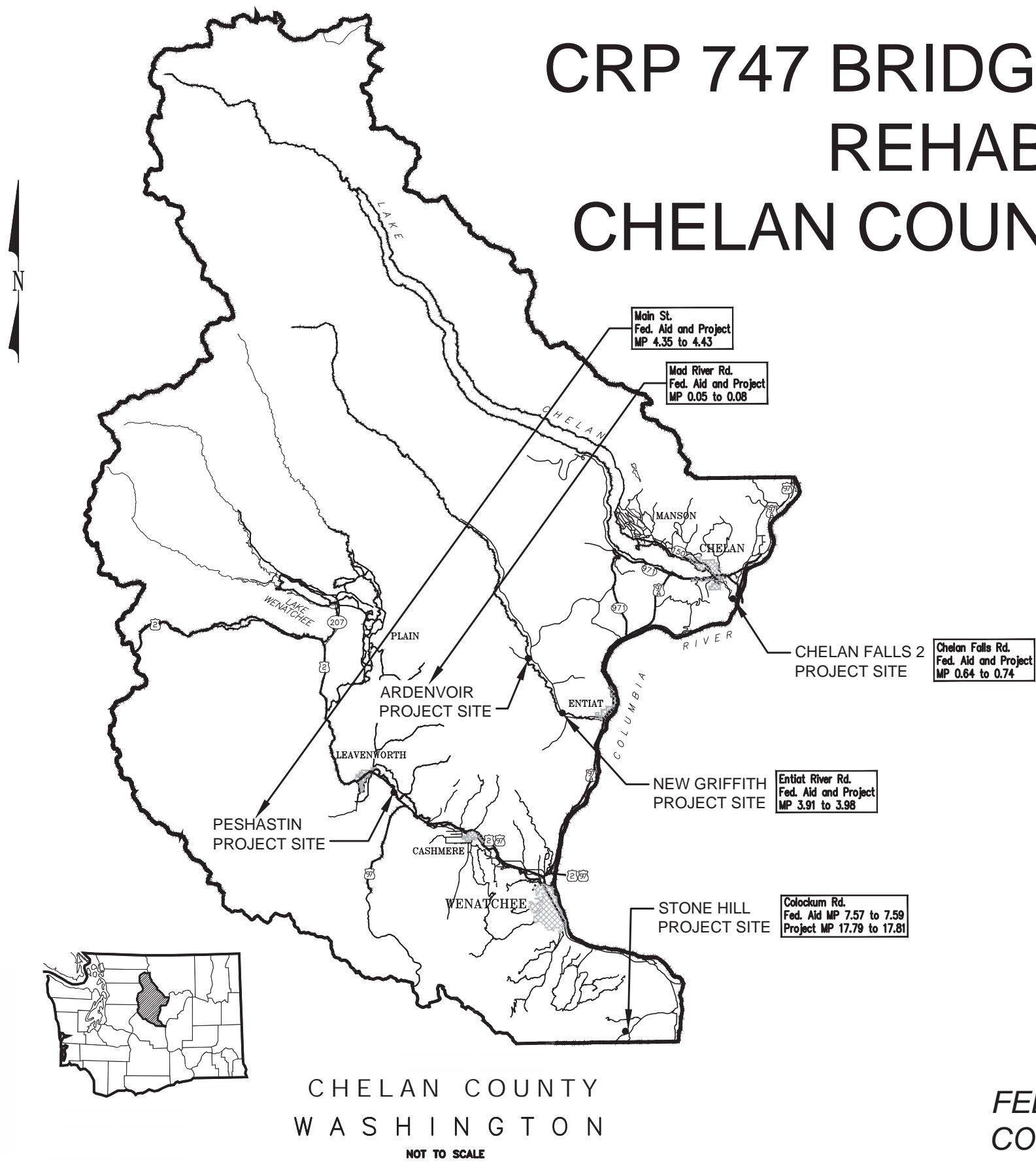
509. 667. 6415
www.co.chelan.wa.us


Approved Board of County Commissioners
3-12-24
Date

Fed. Aid No. BHS-Z904(006)
Contract No. TA-7593

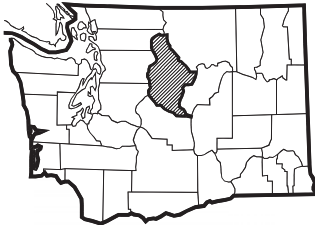
CRP 747 BRIDGE DECK AND JOINT REHABILITATION

CHELAN COUNTY, WASHINGTON



SHEET INDEX		
SHEET	DWG NO.	TITLE
1	G01	COVER SHEET
2	S01	GENERAL STRUCTURAL NOTES
3	S02	SUMMARY OF QUANTITIES
4	S03	PESHASTIN BRIDGE NO. 411A – PLAN AND ELEVATION
5	S04	PESHASTIN BRIDGE NO. 411A – TYPICAL SECTION
6	S05	PESHASTIN BRIDGE NO. 411A – EXPANSION JOINT DETAILS
7	S06	NEW GRIFFITH BRIDGE NO. 503B – PLAN AND TYPICAL SECTION
8	S07	ARDENVOIR BRIDGE NO. 505A – PLAN AND ELEVATION
9	S08	ARDENVOIR BRIDGE NO. 505A – TYPICAL SECTION
10	S09	ARDENVOIR BRIDGE NO. 505A – EXPANSION JOINT DETAILS
11	S10	CHELAN FALLS 2 BRIDGE NO. 805A – PLAN AND TYPICAL SECTION
12	S11	STONE HILL BRIDGE NO. 915 – PLAN AND TYPICAL SECTION
13	S12	BRIDGE DECK REPAIR DETAILS
14	C01	PESHASTIN BRIDGE (BRIDGE #411A) – TRAFFIC CONTROL PLAN
15	C02	NEW GRIFFITH BRIDGE (BRIDGE #503B) – TRAFFIC CONTROL PLAN
16	C03	ARDENVOIR BRIDGE (BRIDGE #505A) – TRAFFIC CONTROL PLAN
17	C04	CHELAN FALLS 2 BRIDGE (BRIDGE #805A) – TRAFFIC CONTROL PLAN
18	C05	STONE HILL BRIDGE (BRIDGE #915) – TRAFFIC CONTROL PLAN
19	C06	TRAFFIC CONTROL DETAIL
20	C07	TRAFFIC CONTROL DETAIL
21	C08	TYPICAL TRAFFIC CONTROL PLANS
22	C09	ARDENVOIR BRIDGE (BRIDGE #505A) MILL & OVERLAY
23	C10	PESHASTIN BRIDGE (BRIDGE #411A) MILL AND OVERLAY PLAN
24	C11	CHELAN FALLS 2 BRIDGE (BRIDGE #805A) MILL AND OVERLAY PLAN
25	C12	STONE HILL BRIDGE (BRIDGE #915) MILL & OVERLAY
26	C13	NEW GRIFFITH BRIDGE (BRIDGE #503B) MILL & OVERLAY
27	C14	PESHASTIN BRIDGE (BRIDGE #411A) PAVEMENT MARKING PLAN
28	C15	NEW GRIFFITH BRIDGE (BRIDGE #503B) PAVEMENT MARKING PLAN
29	C16	CHELAN FALLS 2 BRIDGE (BRIDGE #805A) PAVEMENT MARKING PLAN

FEDERAL AID PROJECT NUMBER: BHS-Z904(006)
CONTRACT NO.: TA-7593



CHELAN COUNTY
WASHINGTON
NOT TO SCALE

kpff
1601 5th Avenue, Suite 1600
Seattle, WA 98101
206.622.5822
www.kpff.com



NO.	DATE	BY	REVISION

Chelan County
316 Washington Street, Suite 402
Wenatchee, Washington, 98801
509. 667. 6415
www.co.chelan.wa.us



CRP 747 Bridge Deck & Joint Rehabilitation
CHELAN COUNTY, WA
COVER SHEET

DRAWN: RRT	PROJECT NO.: 2300398
DESIGN: JEP	SCALE: AS SHOWN
CHECKED: AWO	DATE: 03-12-2024
DRAWING NO.	G01
SHEET NO.	1 of 29

GENERAL NOTES:

1.

ALL MATERIALS AND WORK SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION DATED 2024 AND PROJECT SPECIAL PROVISIONS.
2.

THE DIMENSIONS SHOWN IN THE PLANS ARE BASED ON THE AS-BUILT PLANS. ALL RELEVANT DETAILS AND DIMENSIONS SHALL BE FIELD MEASURED AND VERIFIED BY THE CONTRACTOR PRIOR TO ORDERING MATERIALS AND PROCEEDING WITH CONSTRUCTION.
3.

THE MATERIALS USED SHALL MEET THE FOLLOWING REQUIREMENTS:

REINFORCING STEEL

STEEL PLATES AND BARS

GROUT

MCO

A615, GRADE 60

A36

PER STANDARD SPECIFICATION

PER SPECIAL PROVISIONS
4.

THE CONTRACTOR SHALL PLAN AND CONDUCT THIS WORK IN SUCH A MANNER THAT NO OBJECTS OR FOREIGN MATERIALS WILL FALL FROM THE WORK ON THE BRIDGE ABOVE INTO THE WATER BELOW. THE CONTRACTOR'S PLAN FOR ACCOMPLISHING THIS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO THE START OF CONSTRUCTION. ALL COSTS ASSOCIATED WITH THIS REQUIREMENT ARE CONSIDERED TO BE INCIDENTAL TO THE COST OF CONSTRUCTION.
5.

ALL SCARIFICATION SHALL BE DONE WITH A HYDRO-DEMOLITION MACHINE. ROTARY MILLING MACHINES ARE NOT ALLOWED.
6.

PRIOR TO SCARIFICATION, CONTRACTOR SHALL PERFORM SURVEY OF THE EXISTING BRIDGE DECK IN ACCORDANCE WITH SECTIONS 6-21.3(4) OF THE STANDARD SPECIFICATIONS.
7.

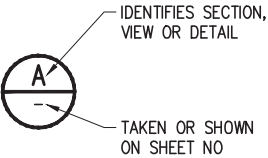
CONSTRUCTION VEHICLES PERMITTED ON THE BRIDGE DURING CONSTRUCTION SHALL HAVE A MAXIMUM GROSS VEHICLE WEIGHT OF 40 KIPS PER SPAN AND A MAXIMUM AXLE LOAD OF 17 KIPS. ADDITIONALLY, NO CONSTRUCTION VEHICLES OR HEAVY MACHINERY SHALL BE ON THE BRIDGE AFTER SCARIFICATION UNTIL ALL TYPE 1 AND TYPE 2 REPAIRS HAVE BEEN MADE AND CURED WITH THE FOLLOWING EXCEPTION:

HYDRO-DEMOLITION MACHINE WEIGHING A MAXIMUM OF 8 KIPS.

ABBREVIATIONS:

CJ	CONSTRUCTION JOINT	LF	LINEAL FOOT
CL	CENTERLINE	MAX	MAXIMUM
CLR	CLEAR	MCO	MODIFIED CONCRETE OVERLAY
DEMO	DEMOLISH	MIN	MINIMUM
E	EXPANSION BEARING	NO	NUMBER
EJ	EXPANSION JOINT	NDT	NON DESTRUCTIVE TESTING
EA	EACH	NTS	NOT TO SCALE
EF	EACH FACE	OC	ON CENTER
EMBED	EMBEDMENT	OPP	OPPOSITE
EL	ELEVATION	PCO	POLYESTER CONCRETE OVERLAY
EQ	EQUAL	PL	PLATE
ES	EACH SIDE	PSI	POUNDS PER SQ. IN.
EXIST	EXISTING	PSF	POUNDS PER SQ. FT.
FS	FAR SIDE	PVI	POINT OF VERTICAL INTERSECTION
FT	FEET	REINF	REINFORCING
IN	INCH	REQ'D	REQUIRED
JT	JOINT	SIM	SIMILAR
K	KIP (1,000 LBS.)	SPA	SPACE(ING)
KSF	KIPS PER SQ. FT.	STA	STATION
KSI	KIPS PER SQ. INCH	SYM	SYMMETRICAL
		TEMP	TEMPORARY
		TYP	TYPICAL
		UNO	UNLESS NOTED OTHERWISE
		VC	VERTICAL CURVE

LEGEND:



1601 5th Avenue, Suite 1600
Seattle, WA 98101
206.622.5822
www.kpff.com



NO.	DATE	BY	REVISION

Chelan County

316 Washington Street, Suite 402
Wenatchee, Washington, 98801

509. 667. 6415
www.co.chelan.wa.us



CRP 747 Bridge Deck & Joint Rehabilitation
CHELAN COUNTY, WA

GENERAL STRUCTURAL NOTES

DRAWN: RRT	PROJECT NO.: 2300398
DESIGN: JEP	SCALE: AS SHOWN
CHECKED: AWO	DATE: 03-12-2024
DRAWING NO.	S01
SHEET NO.	2 OF 29

CAD USER: johnb PLOT DATE: Mar 12, 2024--04:20pm
PATH: V:\2300398 (CRP 747 Bridge Deck & Joint Rehab--Chelan County\02_Design (v20XX)\S02--Summary of Quantities.dwg

SCHEDULE A - PESHASTIN BRIDGE NO. 411A

ITEM NO.	STD. ITEM NO.	SPECS REF.	DESCRIPTION	UNIT	QTY.
PREPARATION					
1	0001	1-09.7	MOBILIZATION	LS	1
2	0187	8-22	REMOVING PAINT LINE	LF	80
STRUCTURE					
3	4232	6-09	MODIFIED CONC. OVERLAY	CF	1328
4	4233	6-02	FINISHING AND CURING MODIFIED CONC. OVERLAY	SY	1180
5	4444	6-02	EXPANSION JOINT MODIFICATION - COMPRESSION SEAL	LF	160
6	4444	6-02	EXPANSION JOINT MODIFICATION - RAPID CURE SILICONE SEALANT	LF	240
7	4456	6-09	SCARIFYING CONC. SURFACE	SY	1180
8	4467	6-09	FURTHER DECK PREPARATION FOR TYPE 2 DECK REPAIR	SF	480
HOT MIX ASPHALT					
9	5766	5-04	HMA CL. 3/8 IN. PG 64H-28	TON	9
10	0332	5-04	PAVEMENT REPAIR EXCAVATION INCL. HAUL	SY	80
11	6511	5-03	HMA SAWCUT AND SEAL	LF	99
EROSION CONTROL AND ROADSIDE PLANTING					
12	6403	8-01	ESC LEAD	DAY	1
13	6490	8-01	EROSION/ WATER POLLUTION CONTROL	EST	1
TRAFFIC					
14	6784	6-10	REMOVING AND RESETING EXISTING PERMANENT BARRIER	LF	20
15	6806	8-22	PAINT LINE	LF	1620
16	6971	1-10	PROJECT TEMPORARY TRAFFIC CONTROL	LS	1
17	6993	1-10	PORTABLE CHANGEABLE MESSAGE SIGN	HR	1296
OTHER					
18	7044	6-21	SURVEYING FOR MODIFIED CONCRETE OVERLAY	LS	1
19	7480	2-01	ROADSIDE CLEANUP	EST	1
20	7736	1-07	SPCC PLAN	LS	1

SCHEDULE B - NEW GRIFFITH BRIDGE NO. 503B

ITEM NO.	STD. ITEM NO.	SPECS REF.	DESCRIPTION	UNIT	QTY.
PREPARATION					
21	0001	1-09.7	MOBILIZATION	LS	1
22	0187	8-22	REMOVING PAINT LINE	LF	500
STRUCTURE					
23	4444	6-02	EXPANSION JOINT MODIFICATION - COMPRESSION SEAL	LF	98
HOT MIX ASPHALT					
24	5766	5-04	HMA CL. 3/8 IN. PG 64H-28	TON	6
25	0332	5-04	PAVEMENT REPAIR EXCAVATION INCL. HAUL	SY	54
26	6511	5-03	HMA SAWCUT AND SEAL	LF	91
EROSION CONTROL AND ROADSIDE PLANTING					
27	6403	8-01	ESC LEAD	DAY	1
28	6490	8-01	EROSION/ WATER POLLUTION CONTROL	EST	1
TRAFFIC					
29	6806	8-22	PAINT LINE	LF	2700
30	6807	1-10	PORTABLE TEMPORARY TRAFFIC CONTROL SIGNAL	LS	1
31	6971	1-10	PROJECT TEMPORARY TRAFFIC CONTROL	LS	1
32	6993	1-10	PORTABLE CHANGEABLE MESSAGE SIGN	HR	1056
OTHER					
33	7480	2-01	ROADSIDE CLEANUP	EST	1
34	7736	1-07	SPCC PLAN	LS	1

SCHEDULE C - ARDENVOIR BRIDGE NO. 505A

ITEM NO.	STD. ITEM NO.	SPECS REF.	DESCRIPTION	UNIT	QTY.
PREPARATION					
35	0001	1-09.7	MOBILIZATION	LS	1
STRUCTURE					
36	4232	6-09	MODIFIED CONC. OVERLAY	CF	390
37	4233	6-02	FINISHING AND CURING MODIFIED CONC. OVERLAY	SY	347
38	4444	6-02	EXPANSION JOINT MODIFICATION - COMPRESSION SEAL	LF	37
39	SP	6-02	REMOVE STEEL ANGLE AND RECONSTRUCT CONCRETE EDGE	LF	52
40	4456	6-09	SCARIFYING CONC. SURFACE	SY	347
41	4467	6-09	FURTHER DECK PREPARATION FOR TYPE 2 DECK REPAIR	SF	380
HOT MIX ASPHALT					
42	5766	5-04	HMA CL. 3/8 IN. PG 64H-28	TON	6
43	0332	5-04	PAVEMENT REPAIR EXCAVATION INCL. HAUL	SY	50
44	6511	5-03	HMA SAWCUT AND SEAL	LF	52
EROSION CONTROL AND ROADSIDE PLANTING					
45	6403	8-01	ESC LEAD	DAY	1
46	6490	8-01	EROSION/ WATER POLLUTION CONTROL	EST	1
TRAFFIC					
47	6971	1-10	PROJECT TEMPORARY TRAFFIC CONTROL	LS	1
OTHER					
48	7044	6-21	SURVEYING FOR MODIFIED CONCRETE OVERLAY	LS	1
49	7480	2-01	ROADSIDE CLEANUP	EST	1
50	7736	1-07	SPCC PLAN	LS	1

SCHEDULE D - CHELAN FALLS 2 BRIDGE NO. 805A

ITEM NO.	STD. ITEM NO.	SPECS REF.	DESCRIPTION	UNIT	QTY.
PREPARATION					
51	0001	1-09.7	MOBILIZATION	LS	1
52	0187	8-22	REMOVING PAINT LINE	LF	500
STRUCTURE					
53	4444	6-02	EXPANSION JOINT MODIFICATION - COMPRESSION SEAL	LF	205
HOT MIX ASPHALT					
54	5766	5-04	HMA CL. 3/8 IN. PG 64H-28	TON	4
55	0332	5-04	PAVEMENT REPAIR EXCAVATION INCL. HAUL	SY	34
56	6511	5-03	HMA SAWCUT AND SEAL	LF	65
EROSION CONTROL AND ROADSIDE PLANTING					
57	6403	8-01	ESC LEAD	DAY	1
58	6490	8-01	EROSION/ WATER POLLUTION CONTROL	EST	1
TRAFFIC					
59	6781	6-10	TEMPORARY BARRIER	LF	1440
60	6806	8-22	PAINT LINE	LF	3500
61	6913	1-10	PORTABLE TEMPORARY TRAFFIC CONTROL SIGNAL	LS	1
62	6971	1-10	PROJECT TEMPORARY TRAFFIC CONTROL	LS	1
63	6993	1-10	PORTABLE CHANGEABLE MESSAGE SIGN	HR	1056
OTHER					
64	7480	2-01	ROADSIDE CLEANUP	EST	1
65	7736	1-07	SPCC PLAN	LS	1

SCHEDULE E - STONE HILL BRIDGE NO. 915

ITEM NO.	STD. ITEM NO.	SPECS REF.	DESCRIPTION	UNIT	QTY.
PREPARATION					
66	0001	1-09.7	MOBILIZATION	LS	1
STRUCTURE					
67	4444	6-02	EXPANSION JOINT MODIFICATION - RAPID CURE SILICONE SEALANT	LF	48
68	SP	6-02	REMOVE STEEL ANGLE AND RECONSTRUCT CONCRETE EDGE	LF	48
HOT MIX ASPHALT					
69	5766	5-04	HMA CL. 3/8 IN. PG 64H-28	TON	6
70	0332	5-04	PAVEMENT REPAIR EXCAVATION INCL. HAUL	SY	52
71	6511	5-03	HMA SAWCUT AND SEAL	LF	48
EROSION CONTROL AND ROADSIDE PLANTING					
72	6403	8-01	ESC LEAD	DAY	1
73	6490	8-01	EROSION/ WATER POLLUTION CONTROL	EST	1
TRAFFIC					
74	6971	1-10	PROJECT TEMPORARY TRAFFIC CONTROL	LS	1
OTHER					
75	7480	2-01	ROADSIDE CLEANUP	EST	1
76	7736	1-07	SPCC PLAN	LS	1



1601 5th Avenue, Suite 1000
Seattle, WA 98101
206.622.5822
www.kpff.com



NO.	DATE	BY	REVISION

Chelan County

316 Washington Street, Suite 402
Wenatchee, Washington, 98801

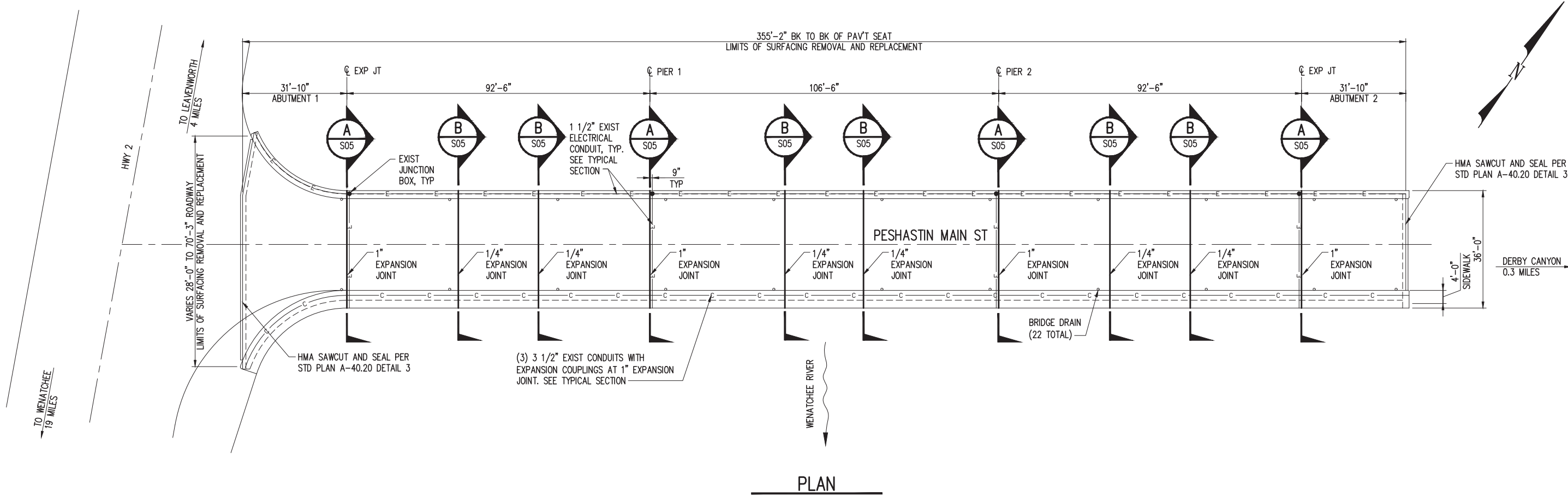
509. 667. 6415
www.co.chelan.wa.us



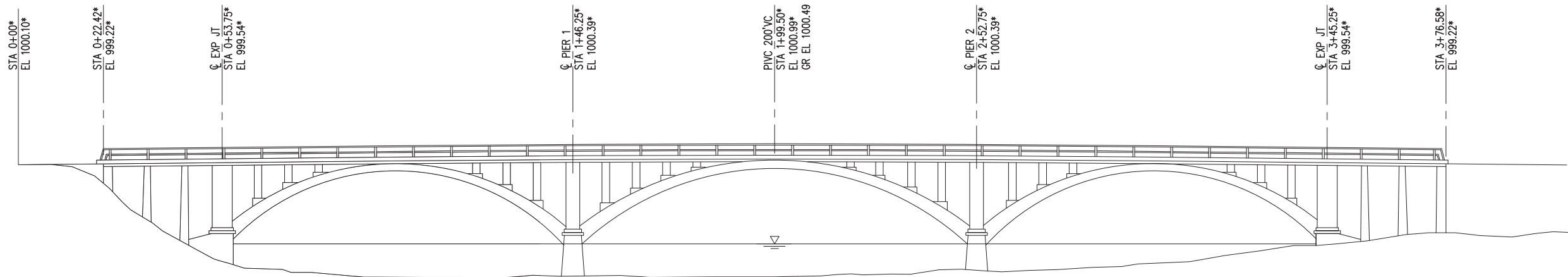
CRP 747 Bridge Deck & Joint Rehabilitation
CHELAN COUNTY, WA

SUMMARY OF QUANTITIES

DRAWN: RRT	PROJECT NO.: 2300398
DESIGN: JEP	SCALE: AS SHOWN
CHECKED: AWO	DATE: 03-12-2024
DRAWING NO.	S02
SHEET NO.	3 of 29



PLAN



ELEVATION

SCARIFY CONCRETE SURFACE,
MODIFIED CONCRETE OVERLAY,
EXPANSION JOINT REPLACEMENT,
AND CURB REPAIR

CAD USER: johnd PLOT DATE: Mar 12, 2024-04:20pm
PATH: V:\2300398 (CRP 747 Bridge Deck & Joint Rehab-Chelan County)\02_Design (v20XX)\S03-Peshastin Br 411A.dwg

kpff
1601 5th Avenue, Suite 1600
Seattle, WA 98101
206.622.5822
www.kpff.com



NO.	DATE	BY	REVISION

Chelan County
316 Washington Street, Suite 402
Wenatchee, Washington, 98801
509. 667. 6415
www.co.chelan.wa.us



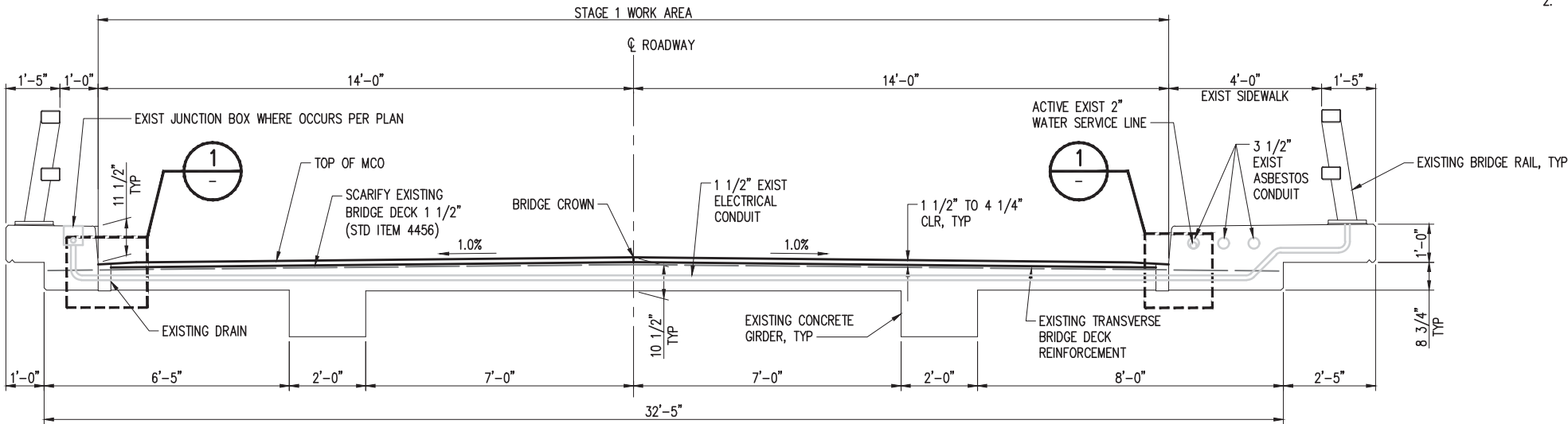
CRP 747 Bridge Deck & Joint Rehabilitation
CHELAN COUNTY, WA
PESHASTIN BRIDGE NO. 411A
PLAN AND ELEVATION

DRAWN: RRT	PROJECT NO.: 2300398
DESIGN: JEP	SCALE: AS SHOWN
CHECKED: AWO	DATE: 03-12-2024
DRAWING NO.	S03
SHEET NO.	4 OF 29

CAD USER: johnb PLOT DATE: Mar 12, 2024-04:20pm
PATH: V:\2300398 (CRP 747 Bridge Deck & Joint Rehab-Chelan County)\02_Design (v20XX)\S04-Peshastin Br 411A.dwg

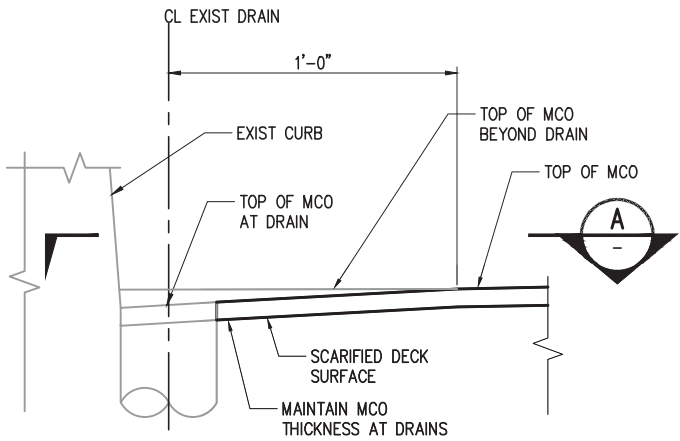
NOTES:

1. MODIFIED CONCRETE OVERLAY SHALL BE MICROSILICA OR FLY ASH AND MEET THE REQUIREMENTS OF WSDOT STANDARD SPEC SECTION 6-21.
2. PRESERVE AND PROTECT EXIST CONDUIT, EXPANSION COUPLINGS AND JUNCTION BOXES. NOTIFY ENGINEER IF CONFLICTS WITH HEADER REPLACEMENT OCCURS.



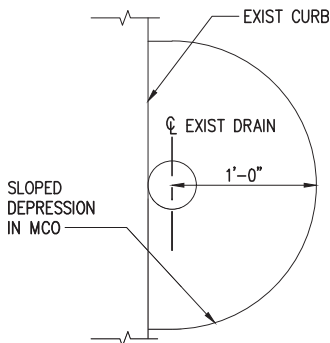
STAGE 1 - TYPICAL SECTION

SCALE: 1/2" = 1'-0"



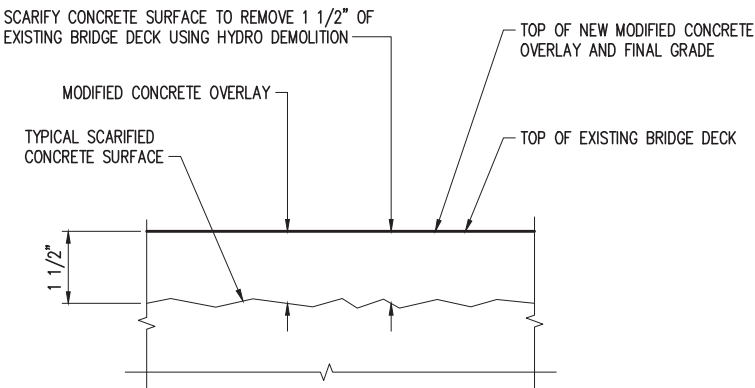
DETAIL AT DRAIN

SCALE: 3" = 1'-0"



DRAIN PLAN VIEW

SCALE: 1 1/2" = 1'-0"



SCARIFICATION AND MODIFIED
CONCRETE OVERLAY DETAIL

SCALE: 6" = 1'-0"

kpff

1601 5th Avenue, Suite 1600
Seattle, WA 98101
206.622.5822
www.kpff.com



NO.	DATE	BY	REVISION

Chelan County

316 Washington Street, Suite 402
Wenatchee, Washington, 98801

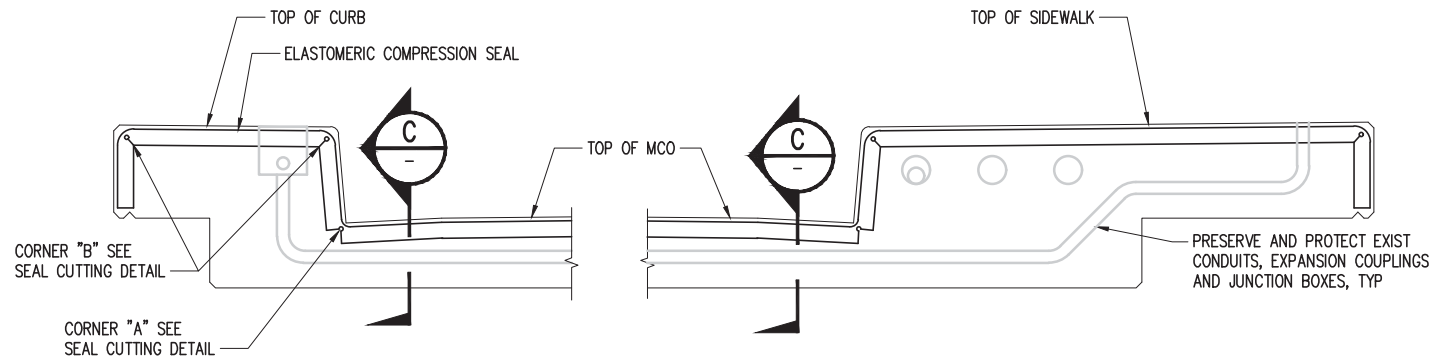
509. 667. 6415
www.co.chelan.wa.us



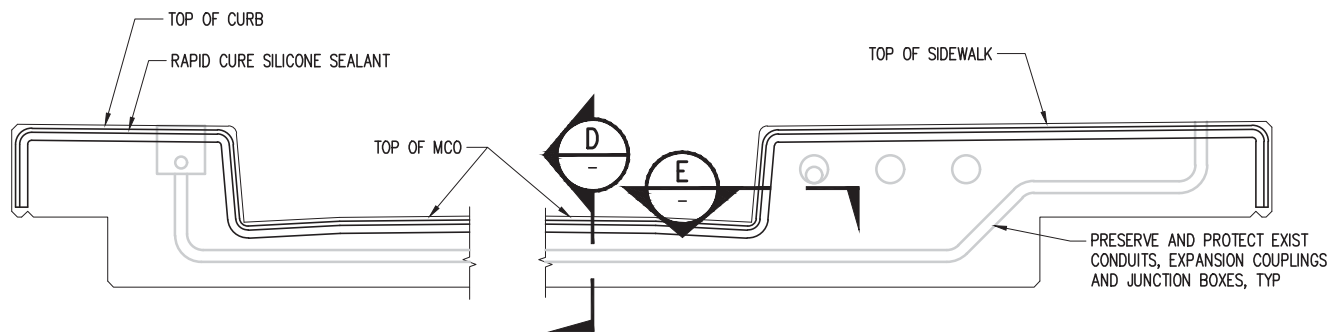
CRP 747 Bridge Deck & Joint Rehabilitation
CHELAN COUNTY, WA
PESHASTIN BRIDGE NO. 411A
TYPICAL SECTION

DRAWN: RRT	PROJECT NO.: 2300398
DESIGN: JEP	SCALE: AS SHOWN
CHECKED: AWO	DATE: 03-12-2024
DRAWING NO.	S04
SHEET NO.	5 of 29

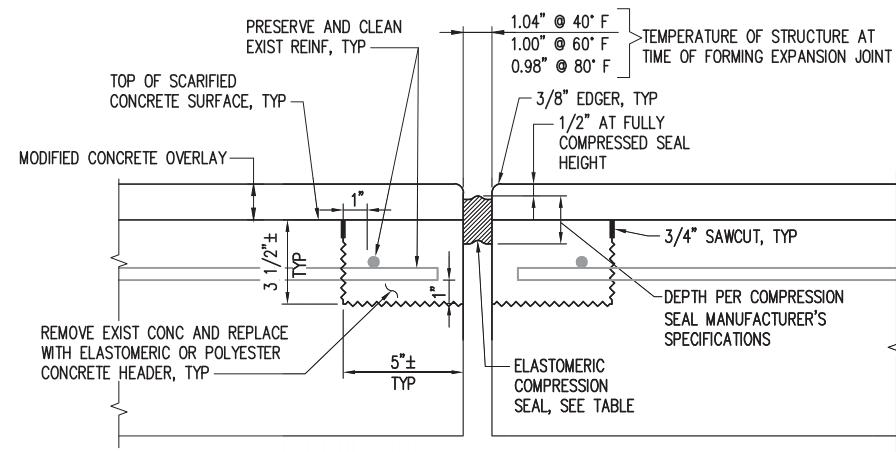
CAD USER: johnb PLOT DATE: Mar 12, 2024-04:20pm
PATH: V:\2300398 (CRP 747 Bridge Deck & Joint Rehab-Chelan County)\02_Design (v20XX)\S05-Peshastin Br 411A.dwg



NOTE: BRIDGE RAIL NOT SHOWN FOR CLARITY
EXPANSION JOINT SECTION - 1" JOINT
SCALE: 1" = 1'-0"
A
S03



NOTE: BRIDGE RAIL NOT SHOWN FOR CLARITY
EXPANSION JOINT SECTION - 1/4" JOINT
SCALE: 1" = 1'-0"
B
S03

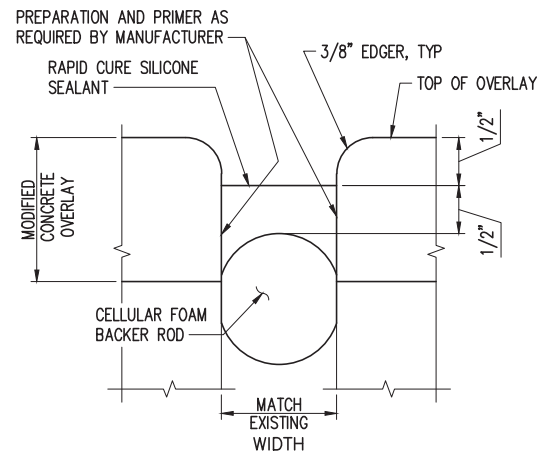


SECTION C
SCALE: 3" = 1'-0"

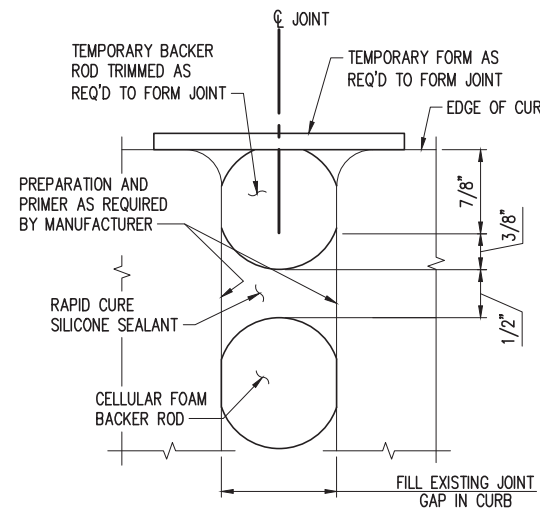
COMPRESSION SEAL TABLE			
D.S. BROWN		WATSON BOWMAN ACME	
SEAL	WIDTH	SEAL	WIDTH
CV-1625	1.63"	WA-162	1.63"

TESTING SHALL BE PER AASHTO M-220 PRIOR TO USE.

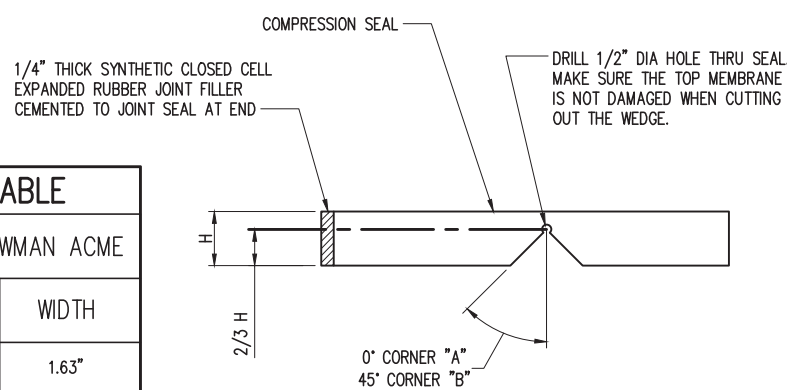
NOTE:
COMPRESSION SEAL SHALL BE FURNISHED AND INSTALLED AS A SINGLE, CONTINUOUS PIECE ACROSS THE FULL WIDTH OF THE ROADWAY (INCLUDING THE SIDEWALKS).



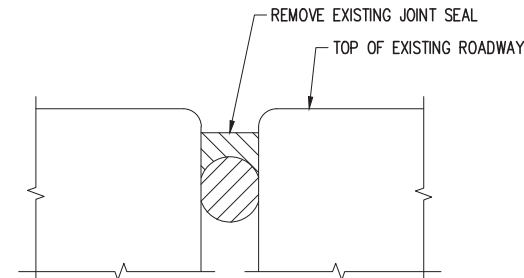
SECTION D
NTS



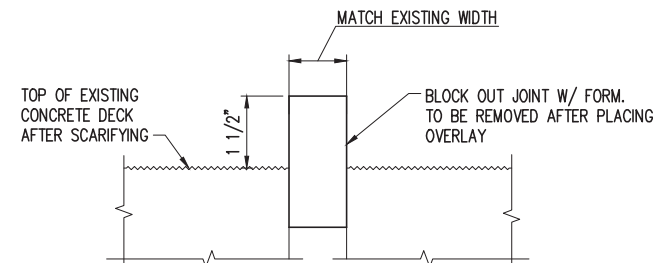
SECTION E
NTS



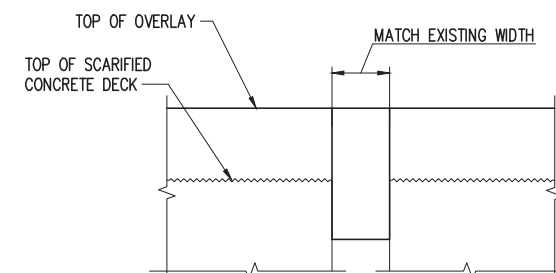
SEAL CUTTING DETAIL 1
NTS



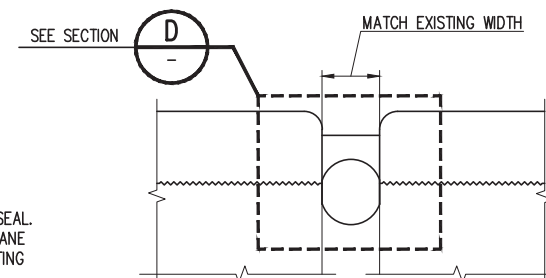
STEP 1



STEP 2



STEP 3



STEP 4

BRIDGE DECK PANEL EXPANSION JOINT CONSTRUCTION SEQUENCE
NTS

kpff

1601 5th Avenue, Suite 1600
Seattle, WA 98101
206.622.5822
www.kpff.com



NO.	DATE	BY	REVISION

Chelan County

316 Washington Street, Suite 402
Wenatchee, Washington, 98801

509. 667. 6415
www.co.chelan.wa.us

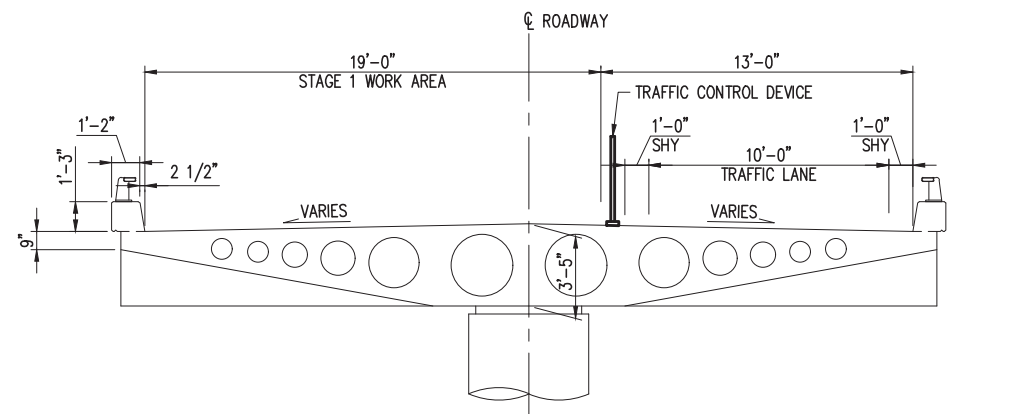
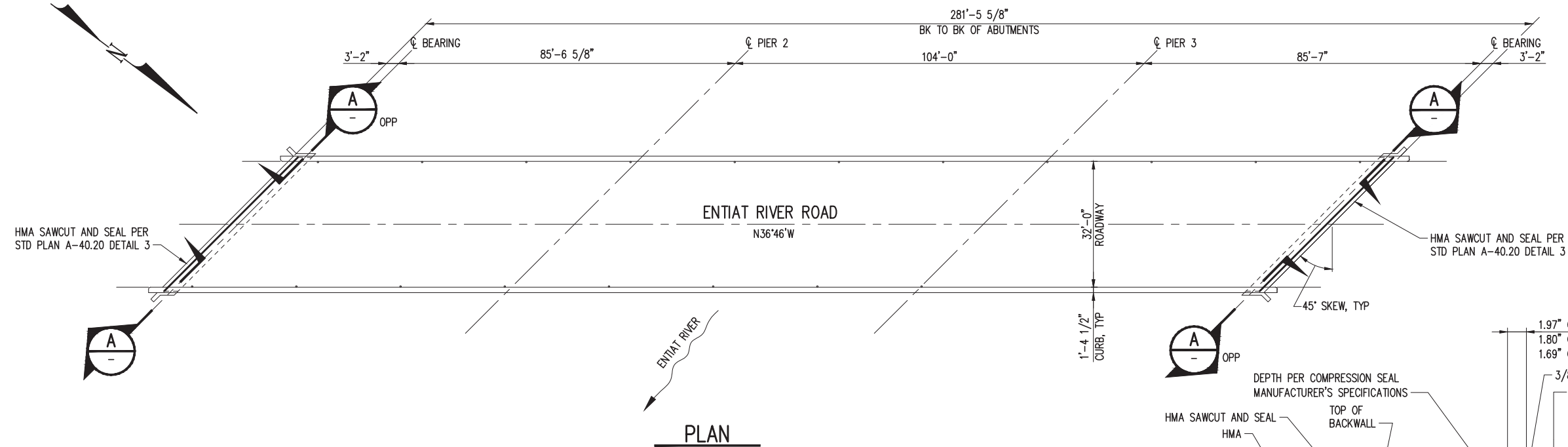


CRP 747 Bridge Deck & Joint Rehabilitation
CHELAN COUNTY, WA

PESHASTIN BRIDGE NO. 411A
EXPANSION JOINT DETAILS

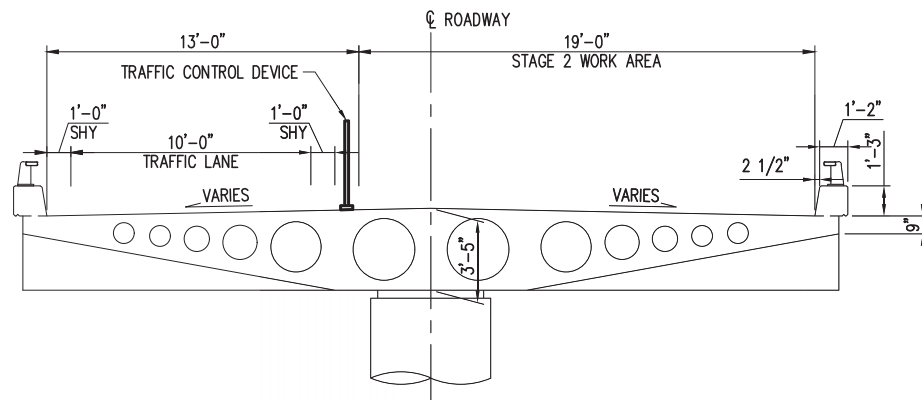
DRAWN: RRT	PROJECT NO.: 2300398
DESIGN: JEP	SCALE: AS SHOWN
CHECKED: AWO	DATE: 03-12-2024
DRAWING NO.	S05
SHEET NO.	6 of 29

SEC. 11 AND SEC. 14, T. 25 N., R.20 E., W.M.



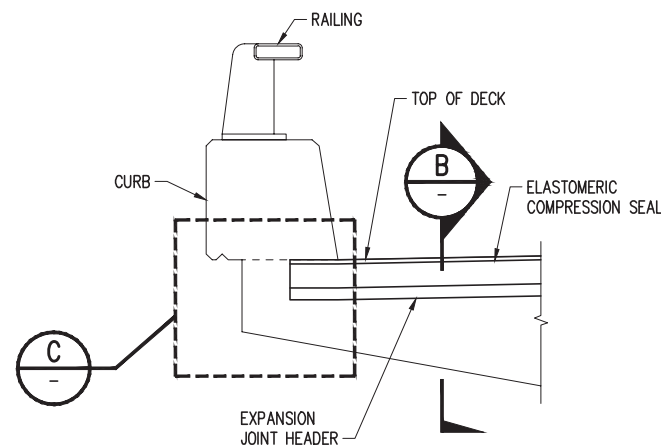
STAGE 1 – TYPICAL SECTION

SCALE: $1/4" = 1'-0"$



STAGE 2 – TYPICAL SECTION

SCALE: $1/4'' = 1'-0''$



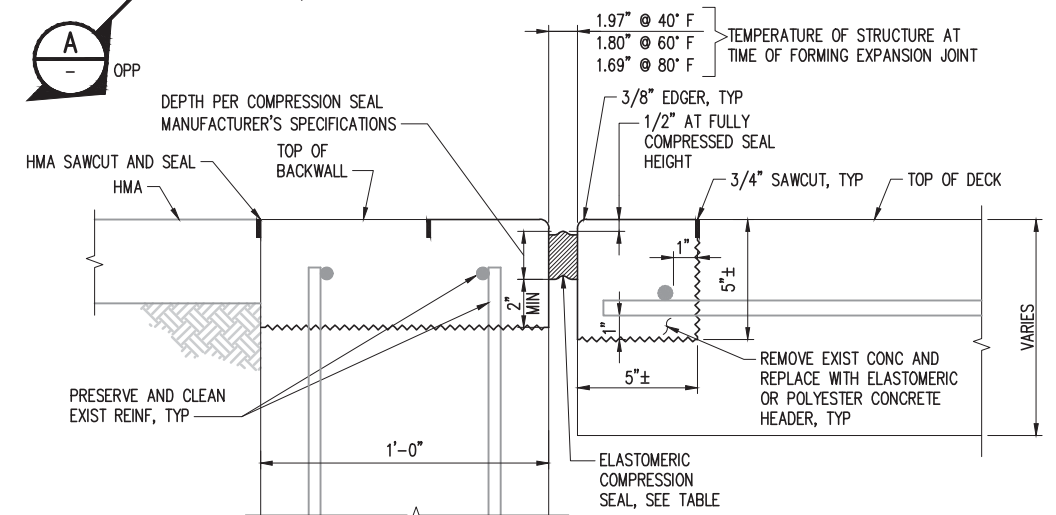
EXPANSION JOINT SECTION

SCALE: 1" = 1'-0"

COMPRESSION SEAL TABLE			
D.S. BROWN		WATSON BOWMAN ACME	
SEAL	WIDTH	SEAL	WIDTH
CV-3000	3"	WA-300	3"

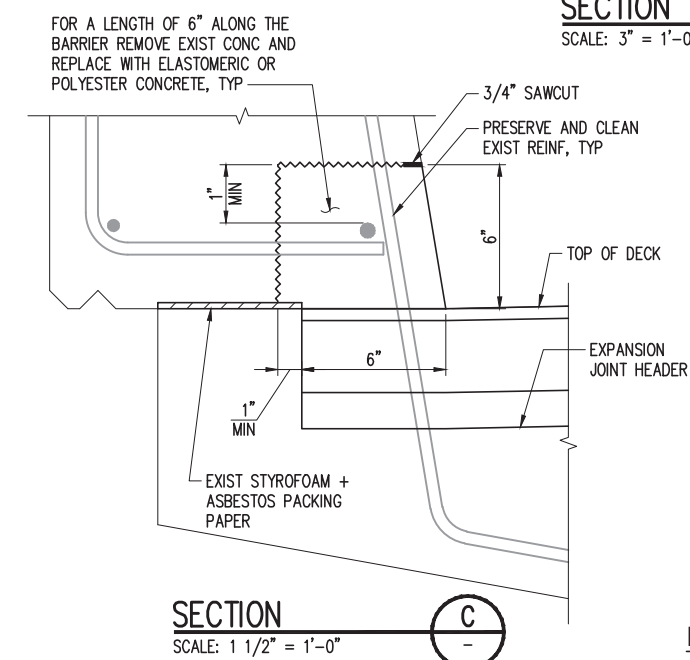
TESTING SHALL BE PER AASHTO M-220 PRIOR TO USE.

NOTE:
COMPRESSION SEAL SHALL BE FURNISHED AND INSTALLED AS A SINGLE, CONTINUOUS
PIECE ACROSS THE FULL WIDTH OF THE ROADWAY (INCLUDING THE SIDEWALKS).



SECTION

SCALE: 3" = 1'-0"



SECTION

SCALE: 1 1/2" = 1'-0"

EXPANSION JOINT REPLACEMENT

[illegible]

Chelan County

316 Washington Street, Suite 402
Wenatchee, Washington, 98801

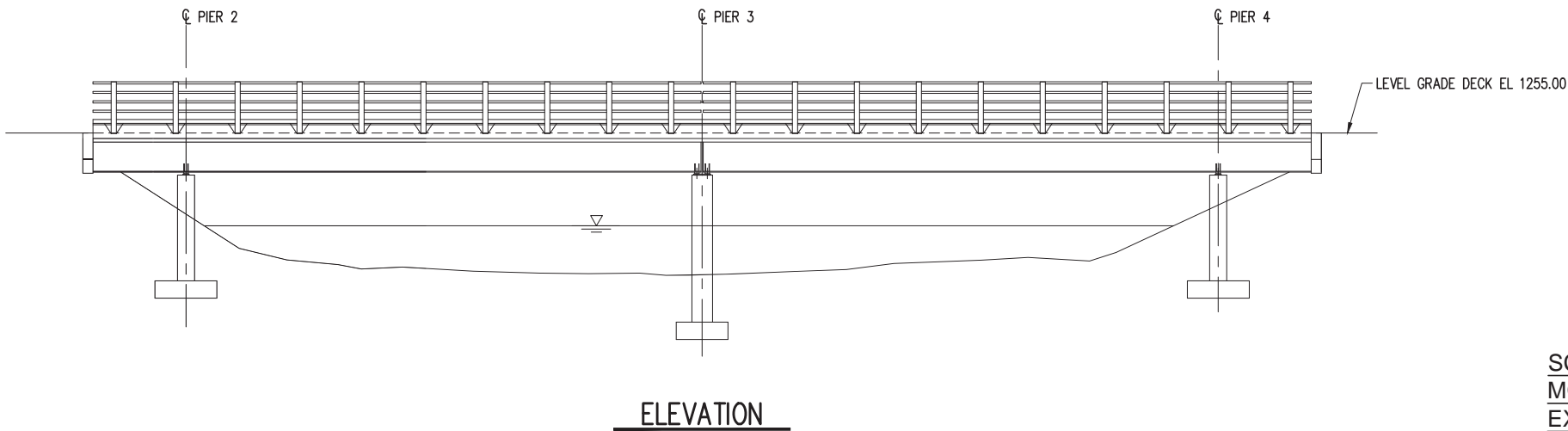
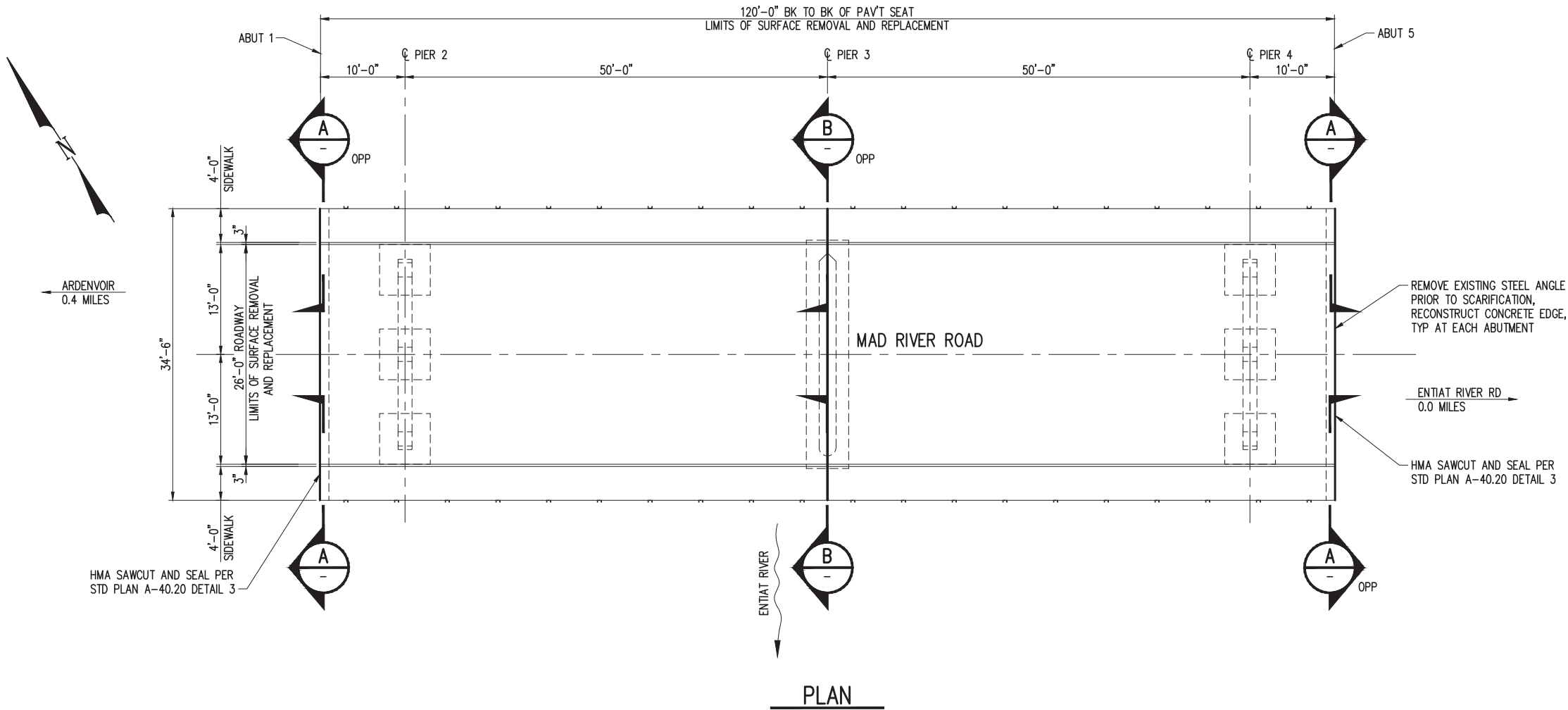
509. 667. 6415
www.co.chelan.wa.us



CRP 747 Bridge Deck & Joint Rehabilitation

NEW GRIFFITH BRIDGE NO. 503B
PLAN AND TYPICAL SECTION

DRAWN: RRT	PROJECT NO.: 2300398
DESIGN: JEP	SCALE: AS SHOWN
CHECKED: AWO	DATE: 03-12-2024
DRAWING NO. S06	
SHEET NO. 7 OF 29	



SCARIFY CONCRETE SURFACE,
MODIFIED CONCRETE OVERLAY AND
EXPANSION JOINT REPLACEMENT

CAD USER: jhnb PLOT DATE: Mar 12, 2024-04:19pm
PATH: V:\2300398 (CRP 747 Bridge Deck & Joint Rehab-Chelan County)\02_Design (v20XX)\S07-Ardenvoir Br 505A.dwg

kpff
1601 5th Avenue, Suite 1600
Seattle, WA 98101
206.622.5822
www.kpff.com



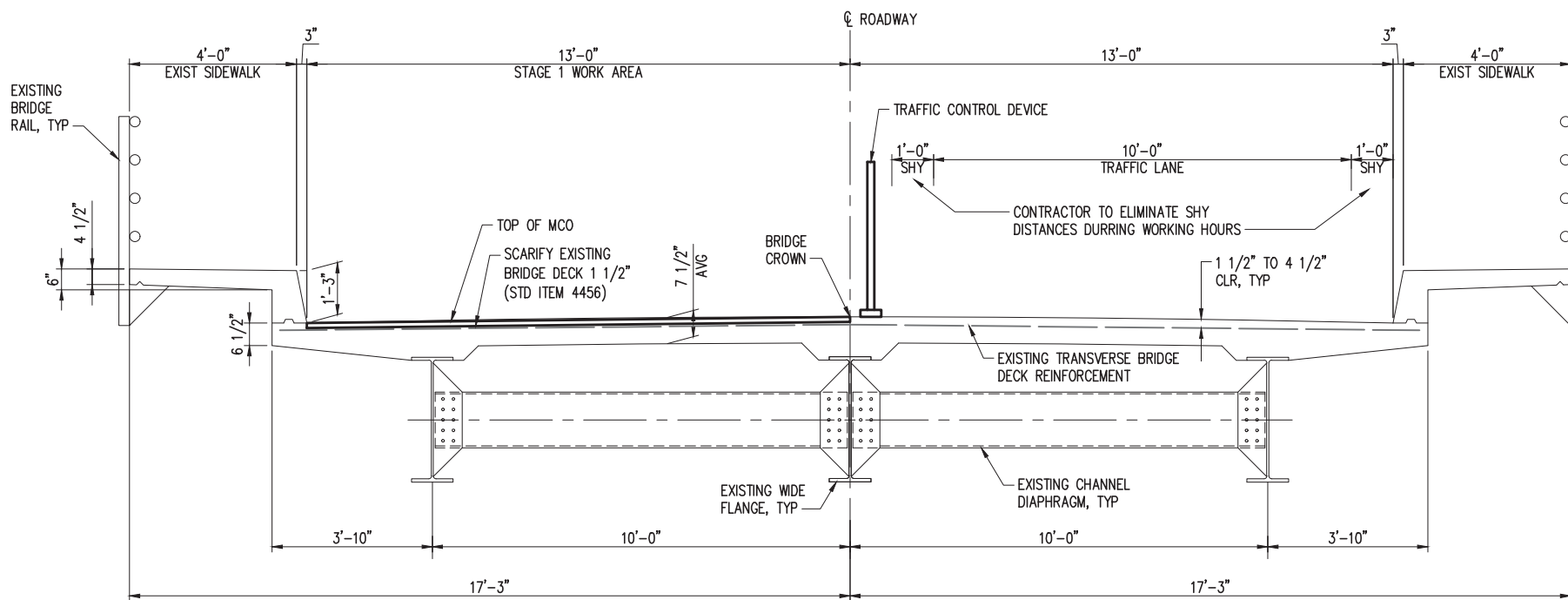
NO.	DATE	BY	REVISION

Chelan County
316 Washington Street, Suite 402
Wenatchee, Washington, 98801
509. 667. 6415
www.co.chelan.wa.us



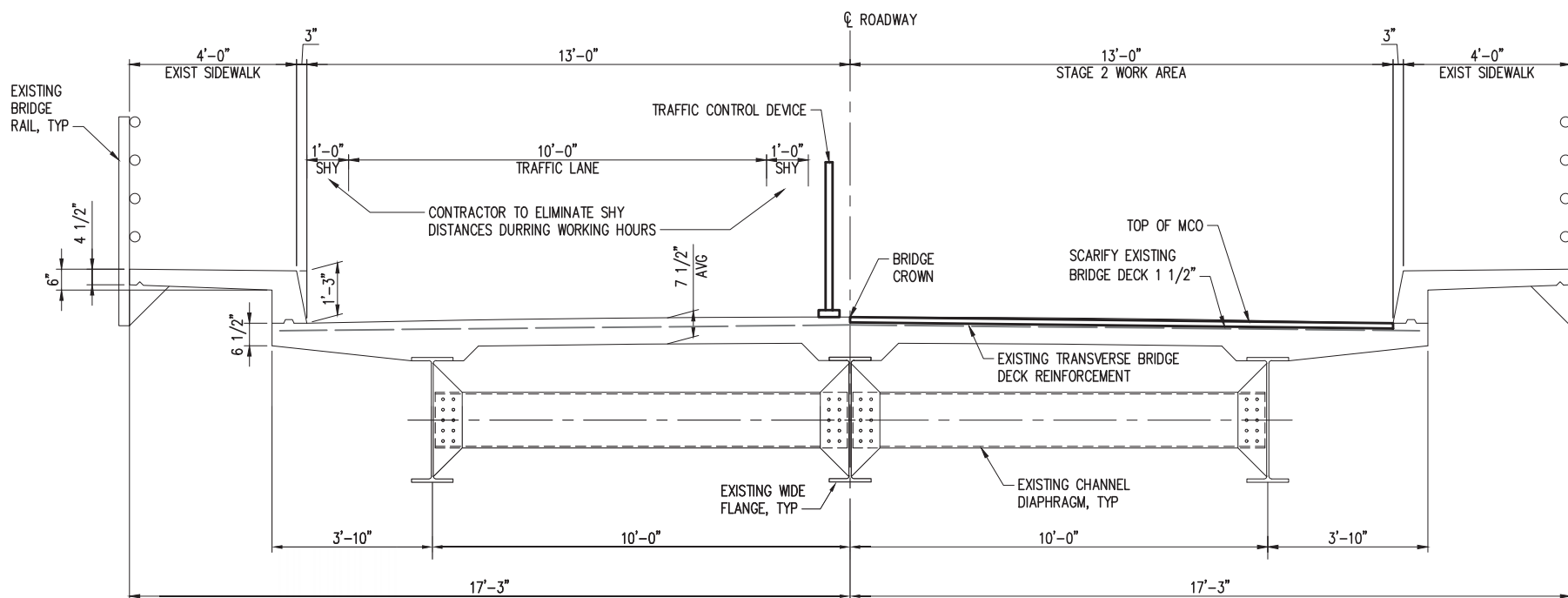
CRP 747 Bridge Deck & Joint Rehabilitation
CHELAN COUNTY, WA
ARDENVOIR BRIDGE NO. 505A
PLAN AND ELEVATION

DRAWN: RRT	PROJECT NO.: 2300398
DESIGN: JEP	SCALE: AS SHOWN
CHECKED: AWO	DATE: 03-12-2024
DRAWING NO.	S07
SHEET NO.	8 OF 29



STAGE 1 - TYPICAL SECTION

SCALE: 1/2" = 1'-0"

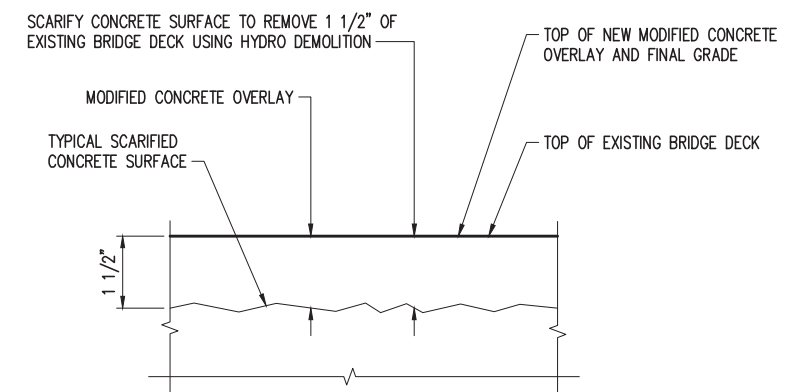


STAGE 2 - TYPICAL SECTION

SCALE: 1/2" = 1'-0"

NOTES:

- MODIFIED CONCRETE OVERLAY SHALL BE MICROSILICA OR FLY ASH AND MEET THE REQUIREMENTS OF WSDOT STANDARD SPEC SECTION 6-21.



SCARIFICATION AND MODIFIED CONCRETE OVERLAY DETAIL

SCALE: 6" = 1'-0"

1

CAD USER: johnb PLOT DATE: Mar 12, 2024-04:19pm
 PATH: V:\2300398 (CRP 747 Bridge Deck & Joint Rehab-Chelan County\02_Design (v20XX)\S08-Ardenvoir Br 505A.dwg

kpff

1601 5th Avenue, Suite 1600
 Seattle, WA 98101
 206.622.5822
 www.kpff.com



NO.	DATE	BY	REVISION

Chelan County

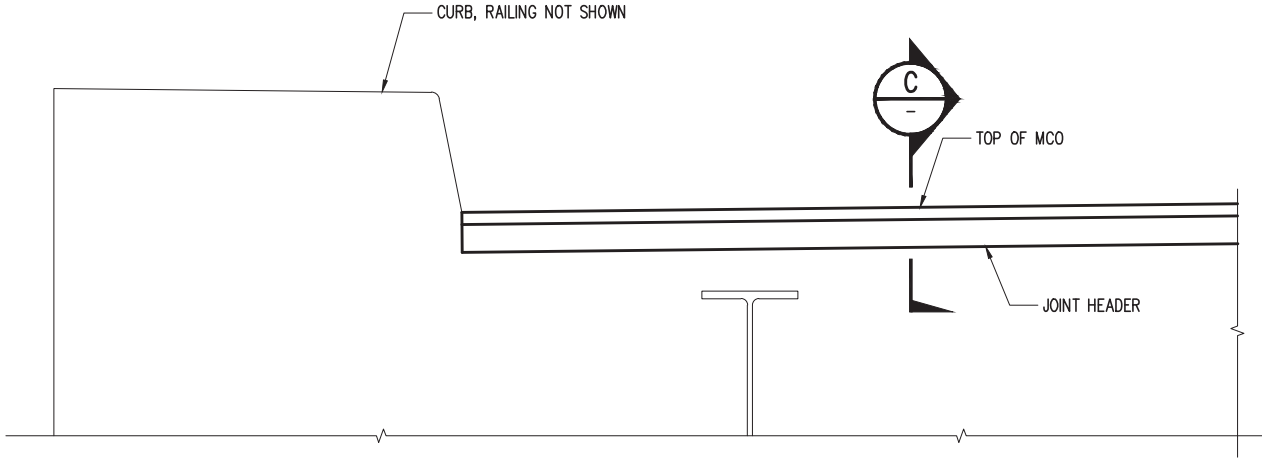
316 Washington Street, Suite 402
 Wenatchee, Washington, 98801
 509. 667. 6415
 www.co.chelan.wa.us



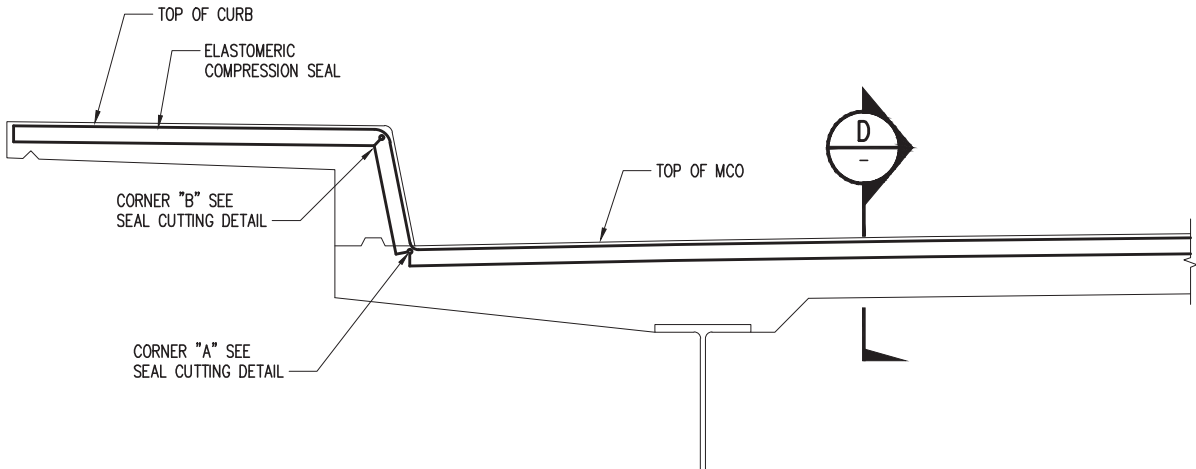
CRP 747 Bridge Deck & Joint Rehabilitation
 CHELAN COUNTY, WA
 ARDENOIR BRIDGE NO. 505A
 TYPICAL SECTION

DRAWN: RRT	PROJECT NO.: 2300398
DESIGN: JEP	SCALE: AS SHOWN
CHECKED: AWO	DATE: 03-12-2024
DRAWING NO.	S08
SHEET NO.	9 of 29

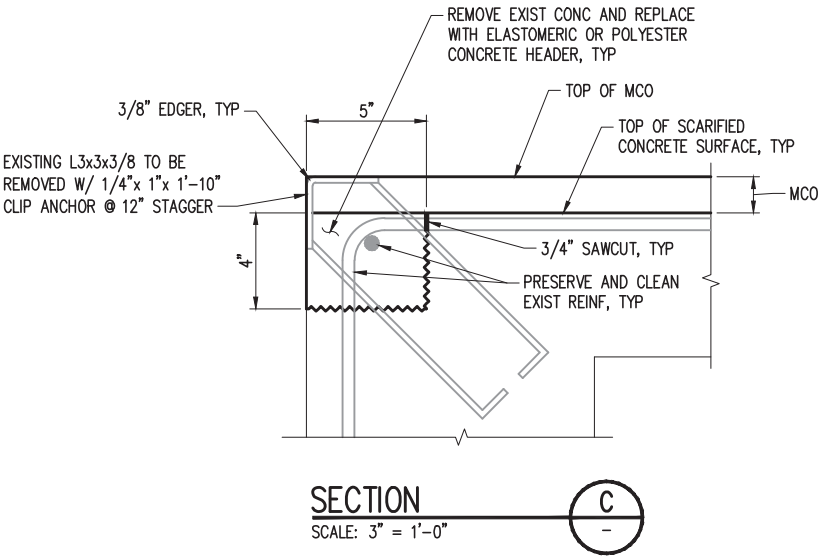
CAD USER: johnb PLOT DATE: Mar 12, 2024-04:18pm
PATH: V:\2300398 (CRP 747 Bridge Deck & Joint Rehab-Chelan County)\02_Design (v20XX)\S09-Ardenvoir Br 505A.dwg



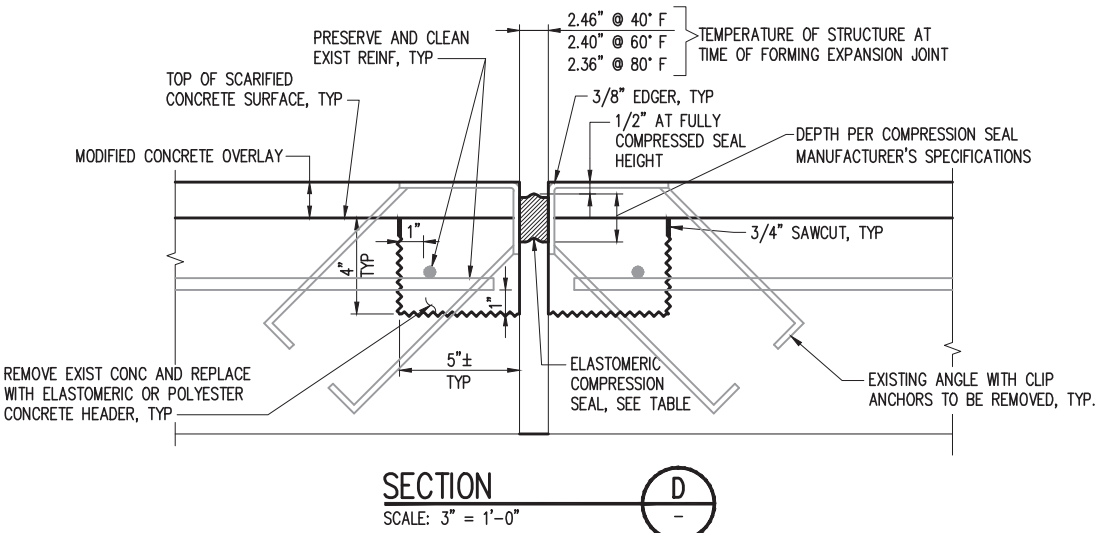
ABUTMENT JOINT
SCALE: 1" = 1'-0"



CENTER PIER JOINT
SCALE: 1" = 1'-0"



SECTION C
SCALE: 3" = 1'-0"

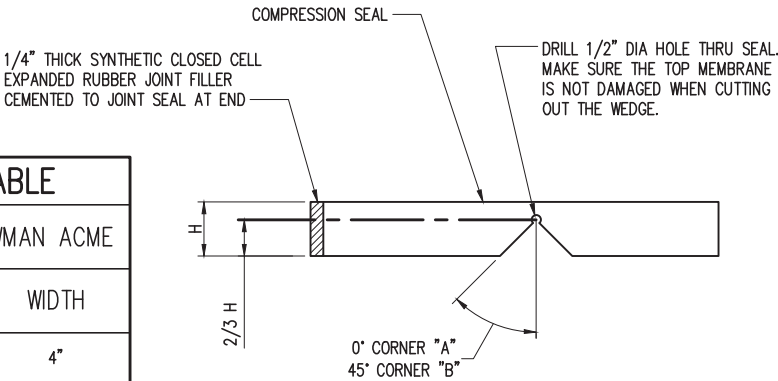


SECTION D
SCALE: 3" = 1'-0"

COMPRESSION SEAL TABLE			
D.S. BROWN		WATSON BOWMAN ACME	
SEAL	WIDTH	SEAL	WIDTH
CV-4000	4"	WA-400	4"

TESTING SHALL BE PER AASHTO M-220 PRIOR TO USE.

NOTE:
COMPRESSION SEAL SHALL BE FURNISHED AND INSTALLED AS A SINGLE, CONTINUOUS PIECE ACROSS THE FULL WIDTH OF THE ROADWAY (INCLUDING THE SIDEWALKS).



SEAL CUTTING DETAIL 1
NTS



1601 5th Avenue, Suite 1600
Seattle, WA 98101
206.622.5822
www.kpff.com



NO.	DATE	BY	REVISION

Chelan County

316 Washington Street, Suite 402
Wenatchee, Washington, 98801

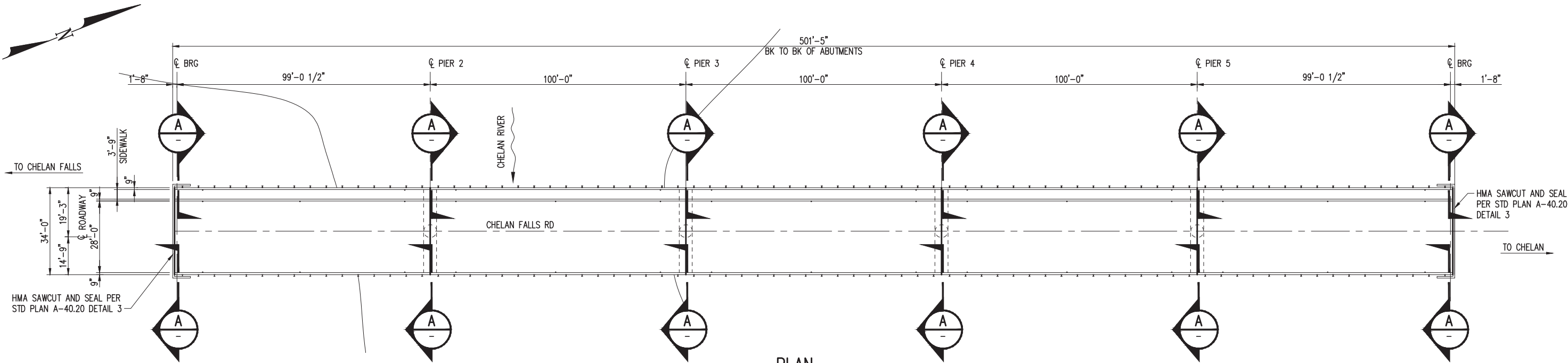
509. 667. 6415
www.co.chelan.wa.us



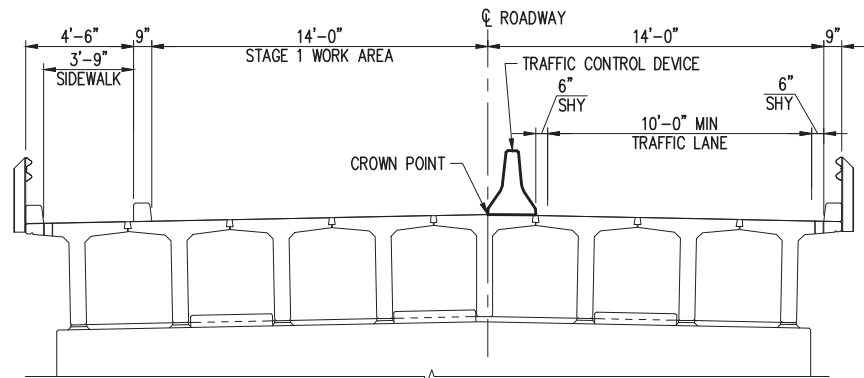
CRP 747 Bridge Deck & Joint Rehabilitation
CHELAN COUNTY, WA

ARDENVOIR BRIDGE NO. 505A
EXPANSION JOINT DETAILS

DRAWN: RRT	PROJECT NO.: 2300398
DESIGN: JEP	SCALE: AS SHOWN
CHECKED: AWO	DATE: 03-12-2024
DRAWING NO.	S09
SHEET NO.	10 of 29

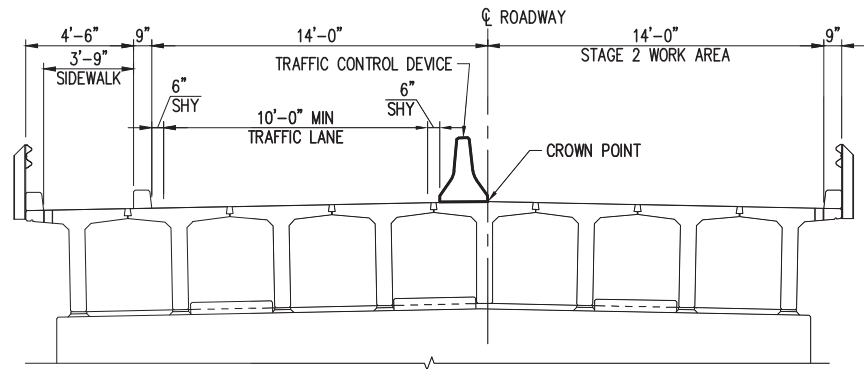


PLAN



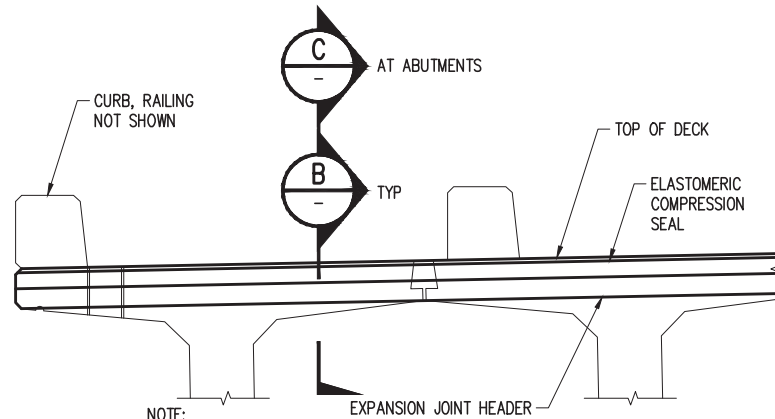
STAGE 1 - TYPICAL SECTION

SCALE: 1/4" = 1'-0"



STAGE 2 - TYPICAL SECTION

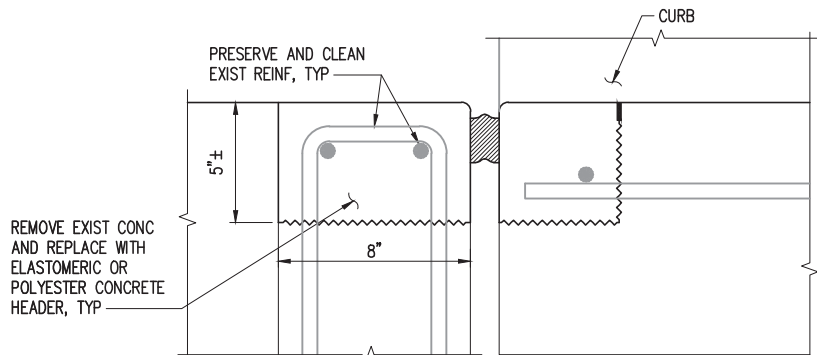
SCALE: 1/4" = 1'-0"



NOTE: SIDEWALK SECTION SHOWN.

EXPANSION JOINT SECTION A

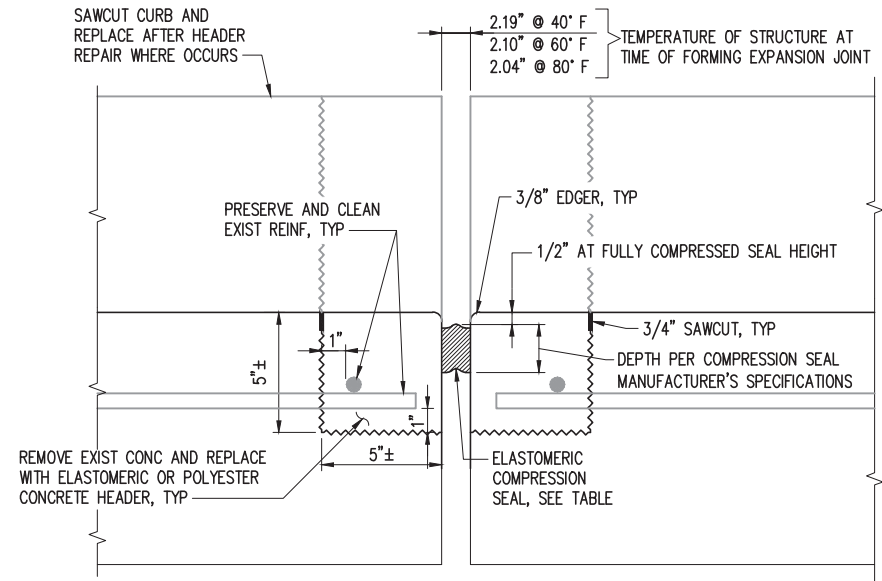
SCALE: 1" = 1'-0"



SOUTH ABUT SHOWN, NORTH ABUT SIMILAR SEE SECTION B FOR TYP DETAILS NOT SHOWN

SECTION B

SCALE: 3" = 1'-0"



SECTION C

SCALE: 3" = 1'-0"

COMPRESSION SEAL TABLE			
D.S. BROWN		WATSON BOWMAN ACME	
SEAL	WIDTH	SEAL	WIDTH
CV-3500	3.5"	WA-350	3.5"

TESTING SHALL BE PER AASHTO M-220 PRIOR TO USE.
NOTE:
COMPRESSION SEAL SHALL BE FURNISHED AND INSTALLED AS A SINGLE, CONTINUOUS
PIECE ACROSS THE FULL WIDTH OF THE ROADWAY (INCLUDING THE SIDEWALKS).

EXPANSION JOINT REPLACEMENT

kpff

1601 5th Avenue, Suite 1600
Seattle, WA 98101
206.622.5822
www.kpff.com



NO.	DATE	BY	REVISION

Chelan County

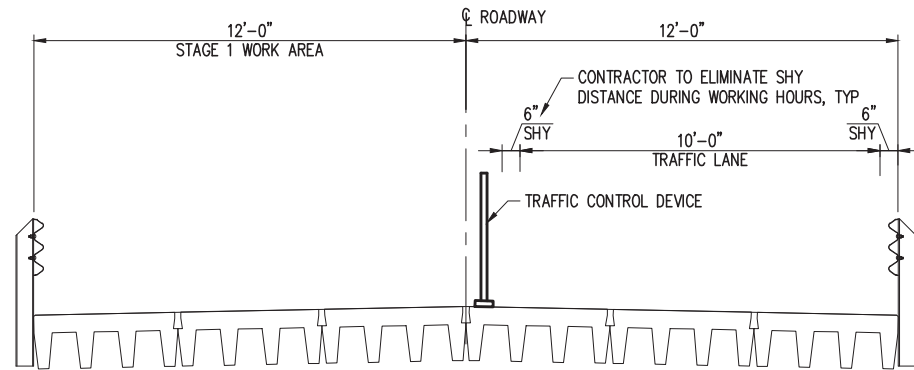
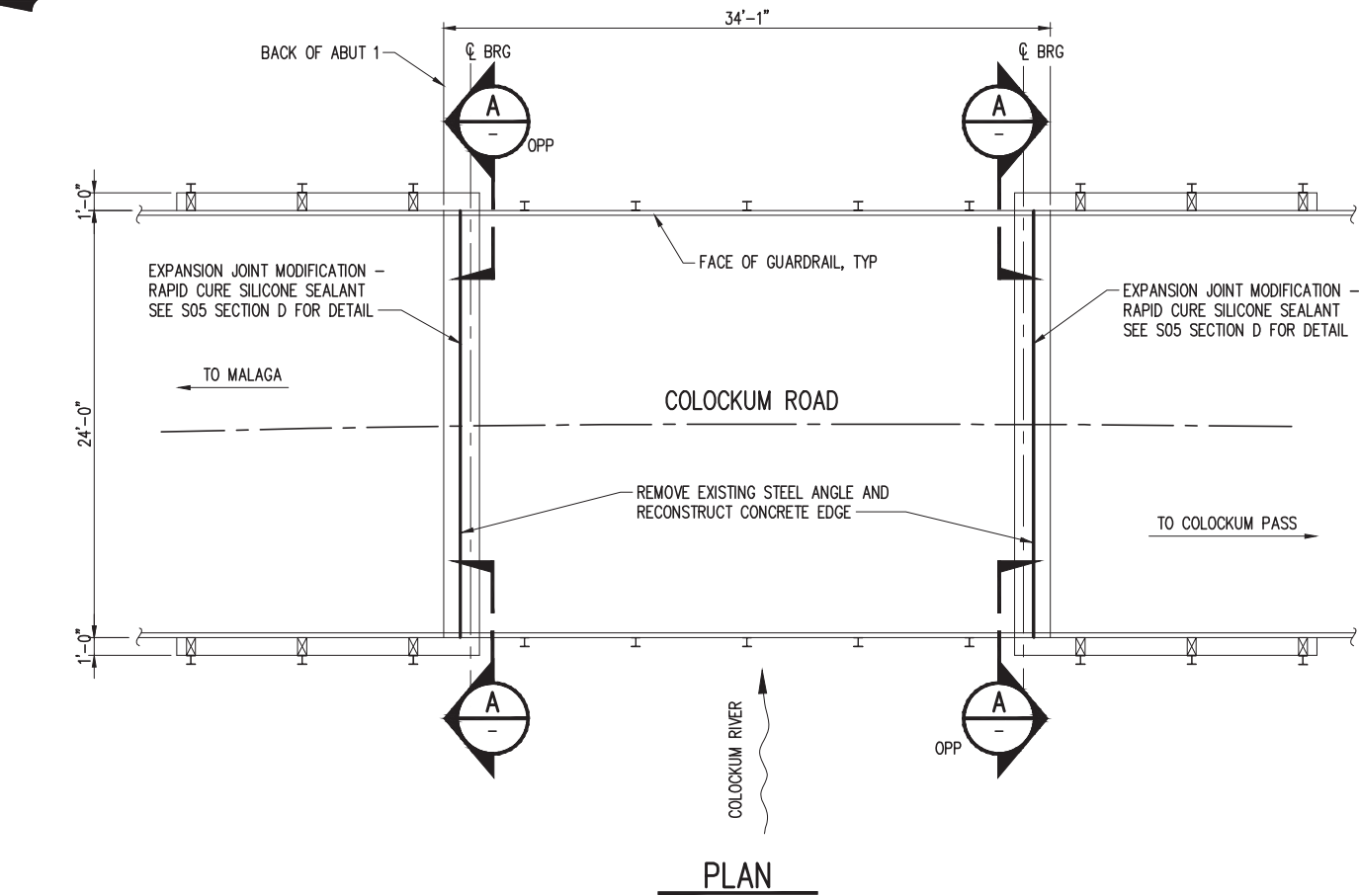
316 Washington Street, Suite 402
Wenatchee, Washington, 98801

509. 667. 6415
www.co.chelan.wa.us



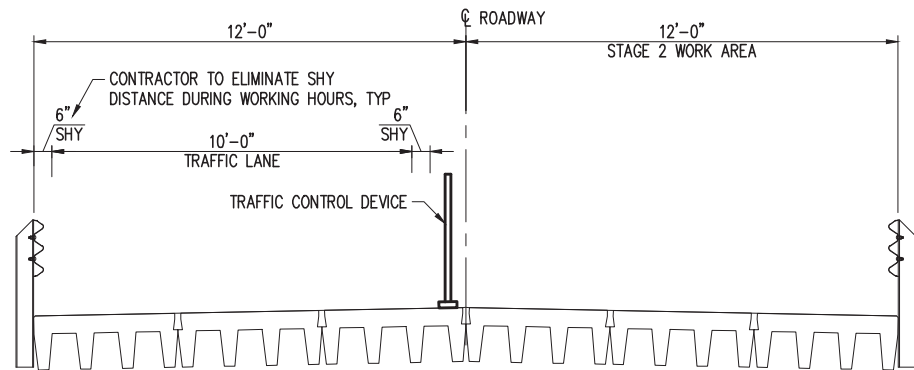
CRP 747 Bridge Deck & Joint Rehabilitation
CHELAN COUNTY, WA
CHELAN FALLS 2 BRIDGE NO. 805A
PLAN AND TYPICAL SECTION

DRAWN: RRT	PROJECT NO.: 2300398
DESIGN: JEP	SCALE: AS SHOWN
CHECKED: AWO	DATE: 03-12-2024
DRAWING NO.	S10
SHEET NO.	11 of 29



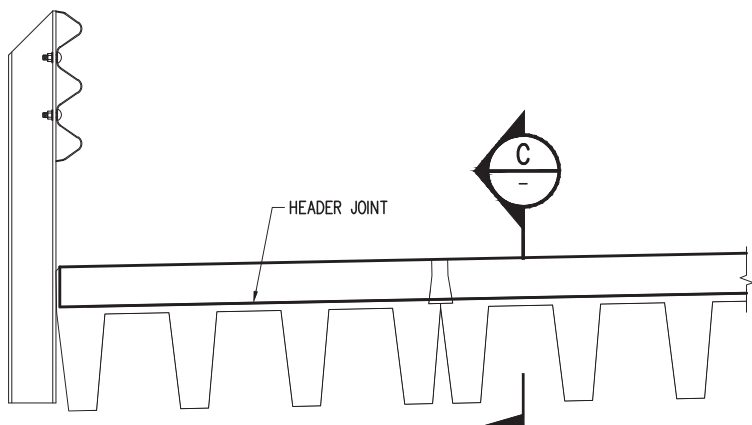
STAGE 1 - TYPICAL SECTION

SCALE: 3/8" = 1'-0"



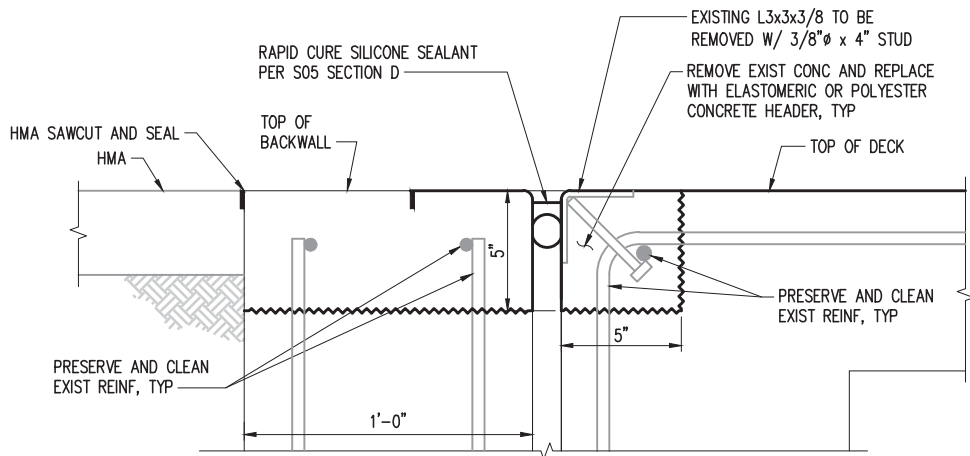
STAGE 2 - TYPICAL SECTION

SCALE: 3/8" = 1'-0"



EXPANSION JOINT SECTION

SCALE: 1" = 1'-0"



SECTION

SCALE: 3" = 1'-0"



EXPANSION JOINT REPLACEMENT

CAD USER: johnd PLOT DATE: Mar 12, 2024-04:18pm
PATH: V:\2300398 (CRP 747 Bridge Deck & Joint Rehab-Chelan County)\02_Design (v20XX)\S11-Stone Hill Br 915.dwg

kpff

1601 5th Avenue, Suite 1600
Seattle, WA 98101
206.622.5822
www.kpff.com



NO.	DATE	BY	REVISION

Chelan County

316 Washington Street, Suite 402
Wenatchee, Washington, 98801

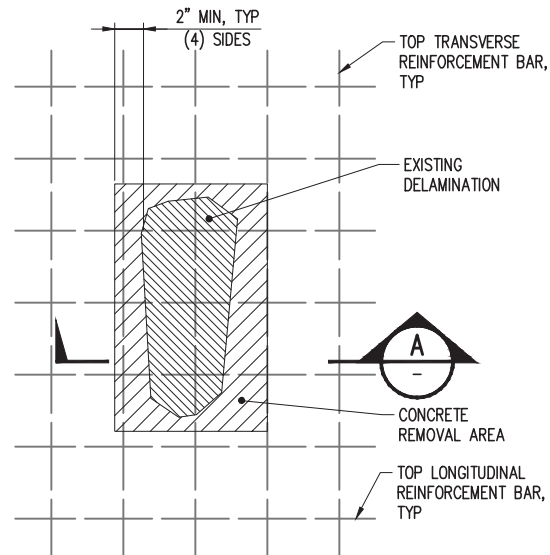
509. 667. 6415
www.co.chelan.wa.us



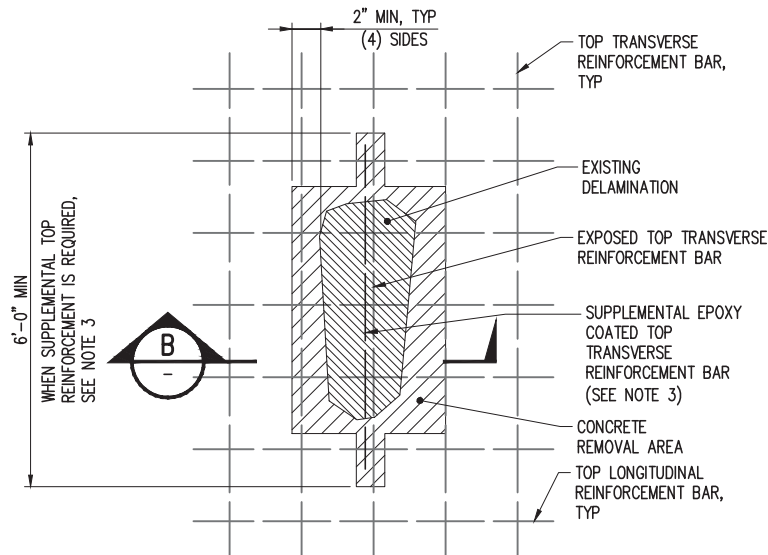
CRP 747 Bridge Deck & Joint Rehabilitation
CHELAN COUNTY, WA

STONE HILL BRIDGE NO. 915
PLAN AND TYPICAL SECTION

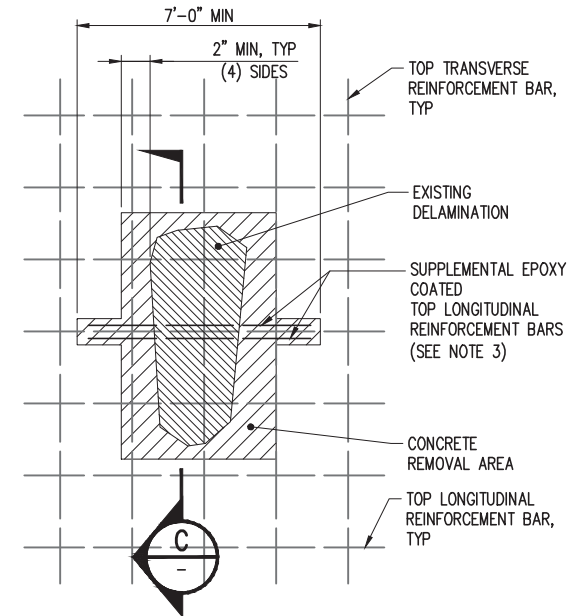
DRAWN: RRT	PROJECT NO.: 2300398
DESIGN: JEP	SCALE: AS SHOWN
CHECKED: AWO	DATE: 03-12-2024
DRAWING NO.	S11
SHEET NO.	12 OF 29



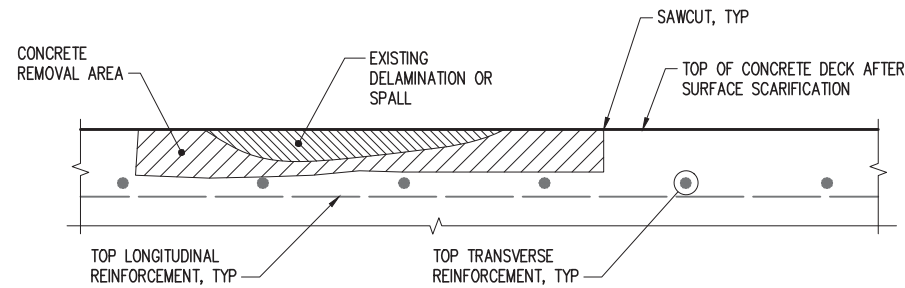
PLAN – TYPE 1 DECK REPAIR
NTS



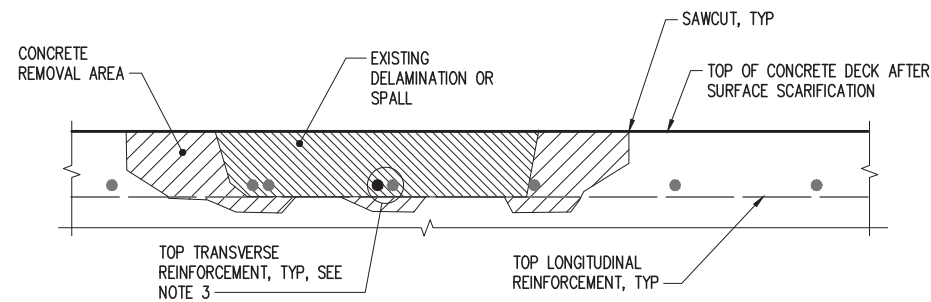
PLAN – TYPE 2A DECK REPAIR
NTS



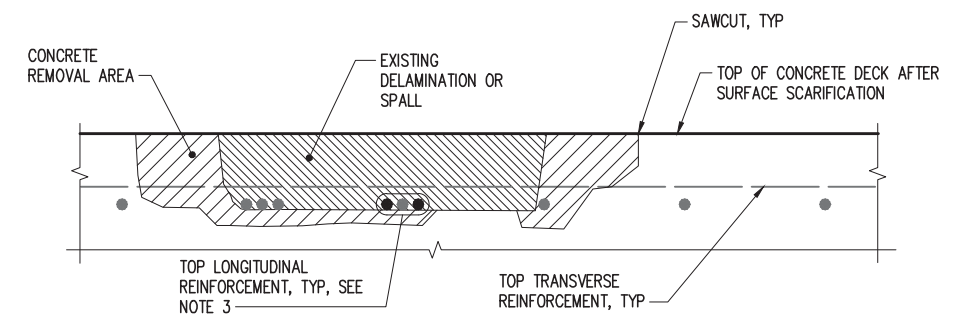
PLAN – TYPE 2B DECK REPAIR
NTS



SECTION – TYPE 1 DECK REPAIR
NTS



SECTION – TYPE 2A DECK REPAIR
NTS



SECTION – TYPE 2B DECK REPAIR
NTS

NOTES TYPE 1 DECK REPAIR:

1. DELAMINATION OR SPALL EXTENDS NO FURTHER THAN THE TOP OF THE TRANSVERSE REINFORCING BARS. REMOVE CONCRETE WITHIN LIMITS SHOWN. FILL DURING PLACEMENT OF MODIFIED CONCRETE OVERLAY.
2. SAWCUT PER WSDOT STD SPEC SECTION 6-09.3(6)B

NOTES TYPE 2A DECK REPAIR:

1. DELAMINATION OR SPALL EXTENDS LOWER THAN TYPE 1, BUT NOT LOWER THAN THE TOP OF LONGITUDINAL REINFORCEMENT BARS. REMOVE ALL CONCRETE 3/4" MINIMUM CLEARANCE AROUND ALL TRANSVERSE REINFORCEMENT BARS. FILL TO TOP OF SURFACE SCARIFIED CONCRETE DECK WITH CONCRETE CLASS M AND WET CURE PER WSDOT STD. SPEC. SECTION 6-09.3(13).
2. IF IT IS DETERMINED THAT THE UNSOUND CONCRETE EXTENDS FURTHER THAN 3/4" BEYOND THE EXPOSED TRANSVERSE REINFORCEMENT, THE CONTRACTOR SHALL HALT THE WORK AT THAT LOCATION AND NOTIFY THE ENGINEER. THE ENGINEER WILL REVIEW THE SPECIFIC LOCATION WITH THE CONTRACTOR AND DETERMINE HOW TO PROCEED. THE CONTRACTOR SHALL NOT PROCEED WITH FURTHER REMOVAL AT THE SPECIFIC LOCATION WITHOUT WRITTEN DIRECTION FROM THE ENGINEER.
3. IF TRANSVERSE REINFORCEMENT BAR HAS GREATER THAN 20% SECTION LOSS, REMOVE CONCRETE A MINIMUM OF 2'-6" ON EACH SIDE OF SECTION LOSS, AND PLACE A NEW SUPPLEMENTARY EPOXY COATED TRANSVERSE REINFORCEMENT BAR, OF THE SAME CROSS-SECTIONAL AREA AS THE ORIGINAL ADJACENT AND PARALLEL TO THE DEFICIENT BAR, EXTENDING 2'-3" BEYOND EACH END OF THE SECTION HAVING 20% SECTION AREA LOSS.
4. SAWCUT PER WSDOT STD SPEC SECTION 6-09.3(6)B.

NOTES TYPE 2B DECK REPAIR:

1. DELAMINATION OR SPALL EXTENDS LOWER THAN TYPE 2A. REMOVE ALL CONCRETE 3/4" MINIMUM CLEARANCE AROUND ALL LONGITUDINAL REINFORCEMENT BARS. FILL TO TOP OF SURFACE SCARIFIED CONCRETE DECK WITH CONCRETE CLASS M AND WET CURE PER WSDOT STD. SPEC. SECTION 6-09.3(13).
2. IF IT IS DETERMINED THAT THE UNSOUND CONCRETE EXTENDS FURTHER THAN 3/4" BEYOND THE EXPOSED LONGITUDINAL REINFORCEMENT, THE CONTRACTOR SHALL HALT THE WORK AT THAT LOCATION AND NOTIFY THE ENGINEER. THE ENGINEER WILL REVIEW THE SPECIFIC LOCATION WITH THE CONTRACTOR AND DETERMINE HOW TO PROCEED. THE CONTRACTOR SHALL NOT PROCEED WITH FURTHER REMOVAL AT THE SPECIFIC LOCATION WITHOUT WRITTEN DIRECTION FROM THE ENGINEER.
3. IF LONGITUDINAL REINFORCEMENT BAR HAS GREATER THAN 20% SECTION LOSS, REMOVE CONCRETE A MINIMUM OF 3'-6" ON EACH SIDE OF SECTION LOSS, AND PLACE (2) SUPPLEMENTARY EPOXY COATED LONGITUDINAL REINFORCEMENT BAR, OF THE SAME CROSS-SECTIONAL AREA AS THE ORIGINAL ADJACENT AND PARALLEL TO THE DEFICIENT BAR, EXTENDING 3'-0" BEYOND EACH END HAVING 20% SECTION AREA LOSS, MECHANICAL SPLICES MAY BE USED TO FACILITATE PLACEMENT. ALSO PERFORM REPAIRS AS DESCRIBED IN TYPE "B" DECK REPAIR.
4. SAWCUT PER WSDOT STD SPEC SECTION 6-09.3(6)B

CAD USER: johnb PLOT DATE: Mar 12, 2024-04:17pm
PATH: V:\2300398 (CRP 747 Bridge Deck & Joint Rehab-Chelan County)\02_Design (v20XX)\S12-Bridge Deck Repair Details.dwg

kpff
1601 5th Avenue, Suite 1600
Seattle, WA 98101
206.622.5822
www.kpff.com



NO.	DATE	BY	REVISION

Chelan County

316 Washington Street, Suite 402
Wenatchee, Washington, 98801
509. 667. 6415
www.co.chelan.wa.us



CRP 747 Bridge Deck & Joint Rehabilitation
CHELAN COUNTY, WA

BRIDGE DECK REPAIR DETAILS

DRAWN: RRT	PROJECT NO.: 2300398
DESIGN: JEP	SCALE: AS SHOWN
CHECKED: AWO	DATE: 03-12-2024
DRAWING NO.	S12
SHEET NO.	13 of 29

1

ROAD WORK AHEAD

W20-1
36"x36"

2

BRIDGE CLOSED AHEAD

W20-3
36"x36"

3

DETOUR AHEAD

W20-2
36"x36"

4

DETOUR

M4-9S
30"x24"

5

DETOUR

M4-9L
30"x24"

6

DETOUR

M4-9R
30"x24"

7

END DETOUR

M4-8A
24"x18"

8

PESHASTIN

30"x24"

9

LEAVENWORTH

30"x24"

PCMS 1

1

BRIDGE INTO PESHASTIN

1.5 SEC

2

CLOSED 4 MILES AHEAD

1.5 SEC

PCMS 2

1

BRIDGE INTO PESHASTIN

1.5 SEC

2

CLOSED 1/2 MILES AHEAD

1.5 SEC

LEGEND

POST MOUNTED CLASS A SIGN

TEMPORARY MOUNTED CLASS B SIGN

TYPE 3 BARRICADE

PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)

DETOUR ROUTE

WORK ZONE

B/W
BLACK ON WHITE BACKGROUND SIGN

B/R/W
BLACK AND RED ON WHITE BACKGROUND SIGN

NOTE:
ALL SIGNS SHALL BE BLACK ON ORANGE BACKGROUND,
UNLESS NOTED OTHERWISE

CAD USER: emurguia PLOT DATE: Mar 12, 2024-04:02pm
PATH: Z:\Civitech\Projects\23-0680 KPFF- WSDOT Chelan Co CRP747 Bridge Rehab\Drawings\23-0680_T001.dwg

NO.	DATE	BY	REVISION

Chelan County
316 Washington Street, Suite 402
Wenatchee, Washington, 98801
509. 667. 6415
www.co.chelan.wa.us

CRP 747 Bridge Deck & Joint Rehabilitation
CHELAN COUNTY, WA
PESHASTIN BRIDGE
(BRIDGE #411A)
TRAFFIC CONTROL PLAN

DRAWN:	PROJECT NO.: 2300398
DESIGN:	SCALE:
CHECKED:	DATE: 03-12-2024
DRAWING NO.	C01
SHEET NO.	14 of 29

SIGN SPACING = X (1)		
RURAL HIGHWAYS	60-65 MPH	800'
RURAL ROADS	45-55 MPH	500'
(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERCHANGE RAMP, AT-GRADE INTERSECTIONS AND DRIVEWAYS.		

MAXIMUM CHANNELIZATION DEVICE SPACING	
TAPER	TANGENT
10'	20'

SPEED REDUCTION AHEAD SIGN SPACING = Z					
EXISTING SPEED LIMIT (MPH)	45	50	55	60	65
SPACING (feet)	230	470	740	1030	1340

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

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

FOR DRIVEWAY, BUSINESS ACCESS, AND INTERSECTING ROADWAY DETAILS SEE TC341, SHEET 3.

mPCMS		
1	2	3
TRAFFIC SIGNAL 1.5 MILES	WATCH 4 STOPPED TRAFFIC 1.5 SEC	ROADWAY NARROWS 13' WIDE 1.5 SEC

FIELD LOCATE 1.5+/- MILES PRIOR TO TEMP SIGNAL. RELOCATE TO REMAIN 0.5%± MILE IN ADVANCE OF TRAFFIC QUEUE IF NEEDED.

LOCATE PER STD. SPEC. 1-10.3(3)C.

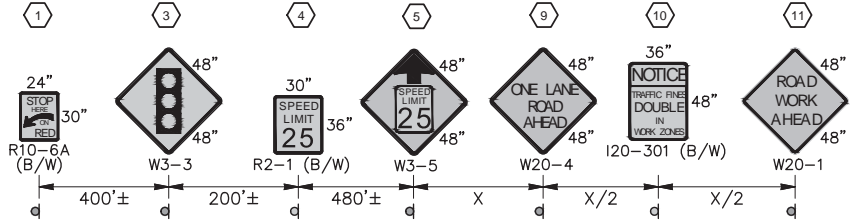
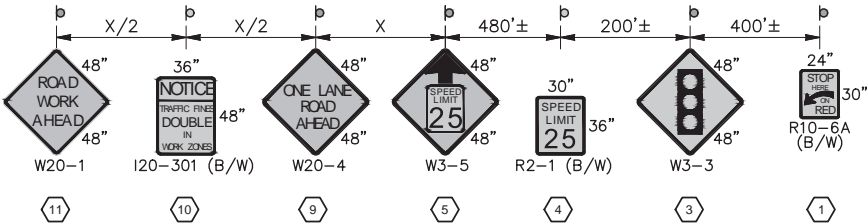


LEGEND	
	CONSTRUCTION SIGN, CLASS A
	WORK ZONE

GENERAL NOTES:

1. CONTRACTOR SHALL MIRROR TRAFFIC CONTROL SETUP FOR WORK IN OPPOSITE DIRECTION.

B/W - BLACK ON WHITE BACKGROUND SIGN
B/O - BLACK ON ORANGE BACKGROUND SIGN
B/W/O - BLACK, RED, WHITE ON ORANGE BACKGROUND SIGN



NO.	DATE	BY	REVISION

Chelan County

316 Washington Street, Suite 402
Wenatchee, Washington, 98801

509. 667. 6415
www.co.chelan.wa.us



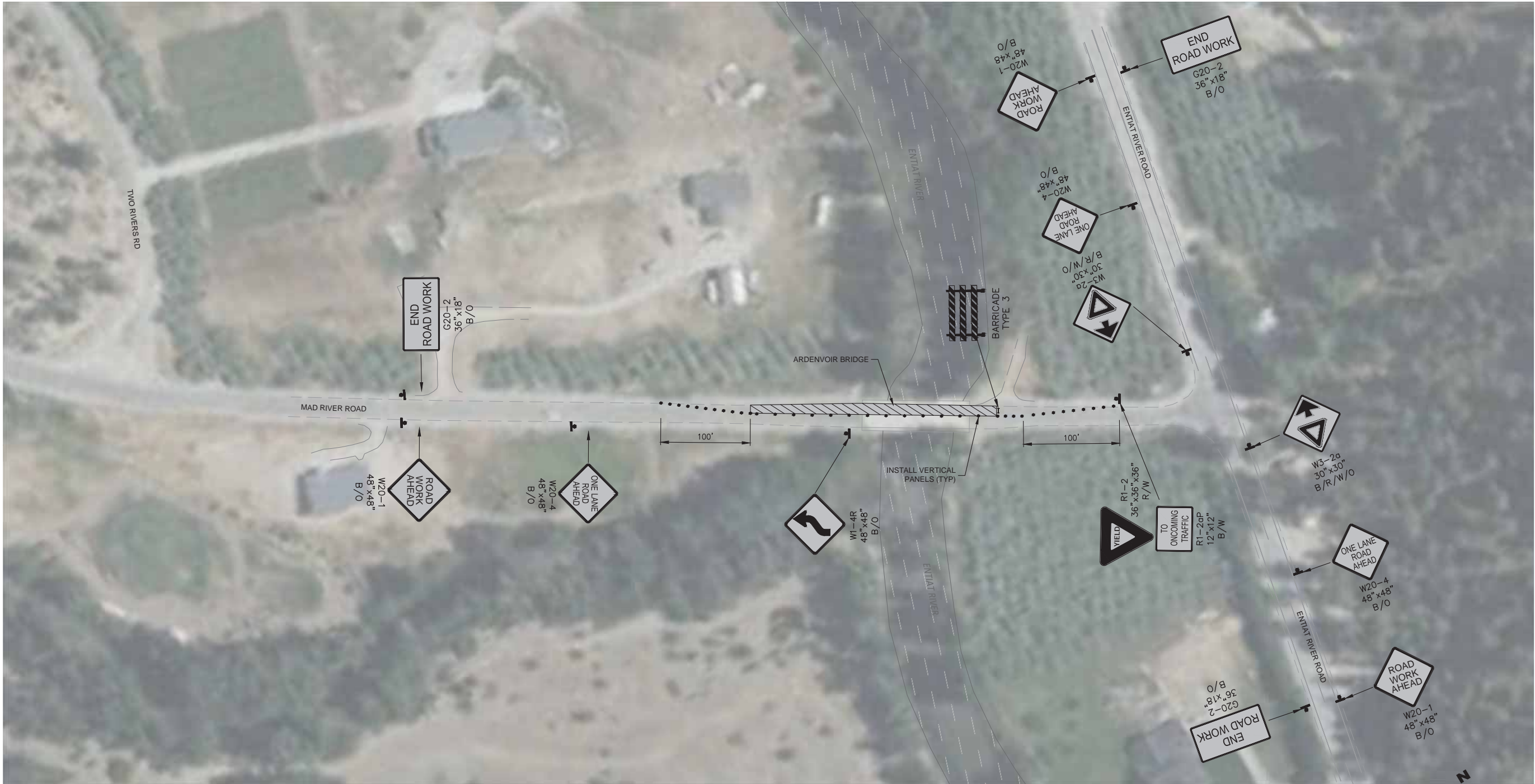
CRP 747 Bridge Deck & Joint Rehabilitation
CHELAN COUNTY, WA


NEW GRIFFITH BRIDGE
(BRIDGE #503B)
TRAFFIC CONTROL PLAN


DRAWN:	PROJECT NO.: 2300398
DESIGN:	SCALE:
CHECKED:	DATE: 03-12-2024
DRAWING NO.	C02
SHEET NO.	15 of 29


SIGN SPACING = X (1)		
RURAL HIGHWAYS	60-65 MPH	800'
RURAL ROADS	45-55 MPH	500'
RURAL ROADS	25 MPH	100'
(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERCHANGE RAMP, AT-GRADE INTERSECTIONS AND DRIVEWAYS.		

MAXIMUM CHANNELIZATION DEVICE SPACING	
TAPER	TANGENT
10'	20'




CONSTRUCTION SIGN,
CLASS A


CHANNELIZING DEVICE
(TUBULAR MARKER)


WORK ZONE

- GENERAL NOTES:**
- CONTRACTOR TO INSTALL TRAFFIC CONTROL PER MUTCD TYPICAL APPLICATION 11.
 - CONTRACTOR SHALL MIRROR TRAFFIC CONTROL SETUP FOR WORK IN OPPOSITE DIRECTION.
- B/W - BLACK ON WHITE BACKGROUND SIGN
B/O - BLACK ON ORANGE BACKGROUND SIGN
B/R/W/O - BLACK, RED, WHITE ON ORANGE BACKGROUND SIGN
R/W - RED ON WHITE BACKGROUND SIGN


CivTech Inc.
10605 N. Hayden Rd. Suite 140 Scottsdale, AZ 85260
480.659.4250
480.659.0566
info@civtech.com


CHADLER J. WINTERS
REGISTERED PROFESSIONAL ENGINEER
03/12/2024

NO.	DATE	BY	REVISION

Chelan County

316 Washington Street, Suite 402
Wenatchee, Washington, 98801
509. 667. 6415
www.co.chelan.wa.us



CRP 747 Bridge Deck & Joint Rehabilitation
CHELAN COUNTY, WA

ARDENVOIR BRIDGE
(BRIDGE #505A)
TRAFFIC CONTROL PLAN

DRAWN:	PROJECT NO.: 2300398
DESIGN:	SCALE:
CHECKED:	DATE: 03-12-2024
DRAWING NO.	C03
SHEET NO.	16 of 29

SIGN SPACING = X (1)		
RURAL HIGHWAYS	60–65 MPH	800'
RURAL ROADS	45–55 MPH	500'
RURAL ROADS	25–35 MPH	100'

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

MAXIMUM CHANNELIZATION DEVICE SPACING	
TAPER	TANGENT
10'	20'

mPCMS		
1	2	3
TRAFFIC SIGNAL 1.5 MILES 1.5 SEC	WATCH 4 STOPPED TRAFFIC 1.5 SEC	ROADWAY NARROWS 13' WIDE 1.5 SEC

FIELD LOCATE 1.5+/- MILES PRIOR TO TEMP SIGNAL. RELOCATE TO REMAIN 0.5%± MILE IN ADVANCE OF TRAFFIC QUEUE IF NEEDED.

LOCATE PER STD. SPEC. 1–10.3(3)C.

SPEED REDUCTION AHEAD SIGN SPACING = Z				
EXISTING SPEED LIMIT (MPH)	45	50	55	60
SPACING (feet)	230	470	740	1030

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

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

FOR DRIVEWAY, BUSINESS ACCESS, AND INTERSECTING ROADWAY DETAILS SEE TC341, SHEET 3.

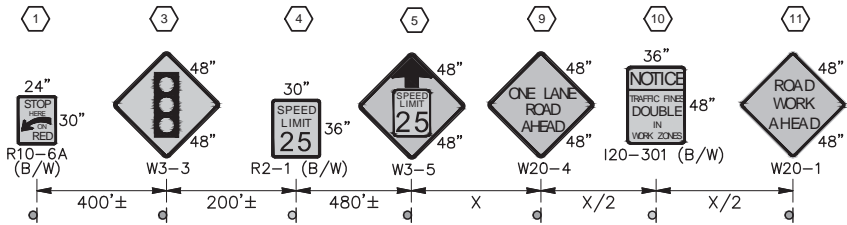
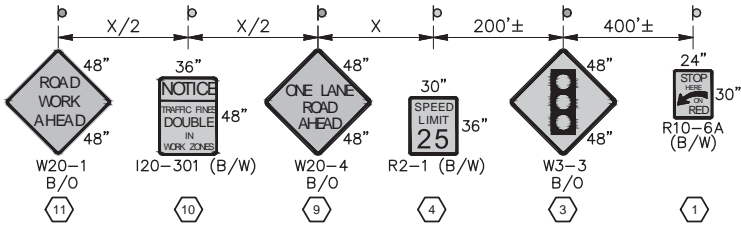


LEGEND	
	CONSTRUCTION SIGN, CLASS A
	WORK ZONE

GENERAL NOTES:

- CONTRACTOR SHALL MIRROR TRAFFIC CONTROL SETUP FOR WORK IN OPPOSITE DIRECTION.

B/W - BLACK ON WHITE BACKGROUND SIGN
B/O - BLACK ON ORANGE BACKGROUND SIGN
B/W/O - BLACK, RED, WHITE ON ORANGE BACKGROUND SIGN



NO.	DATE	BY	REVISION

Chelan County

316 Washington Street, Suite 402
Wenatchee, Washington, 98801

509. 667. 6415
www.co.chelan.wa.us

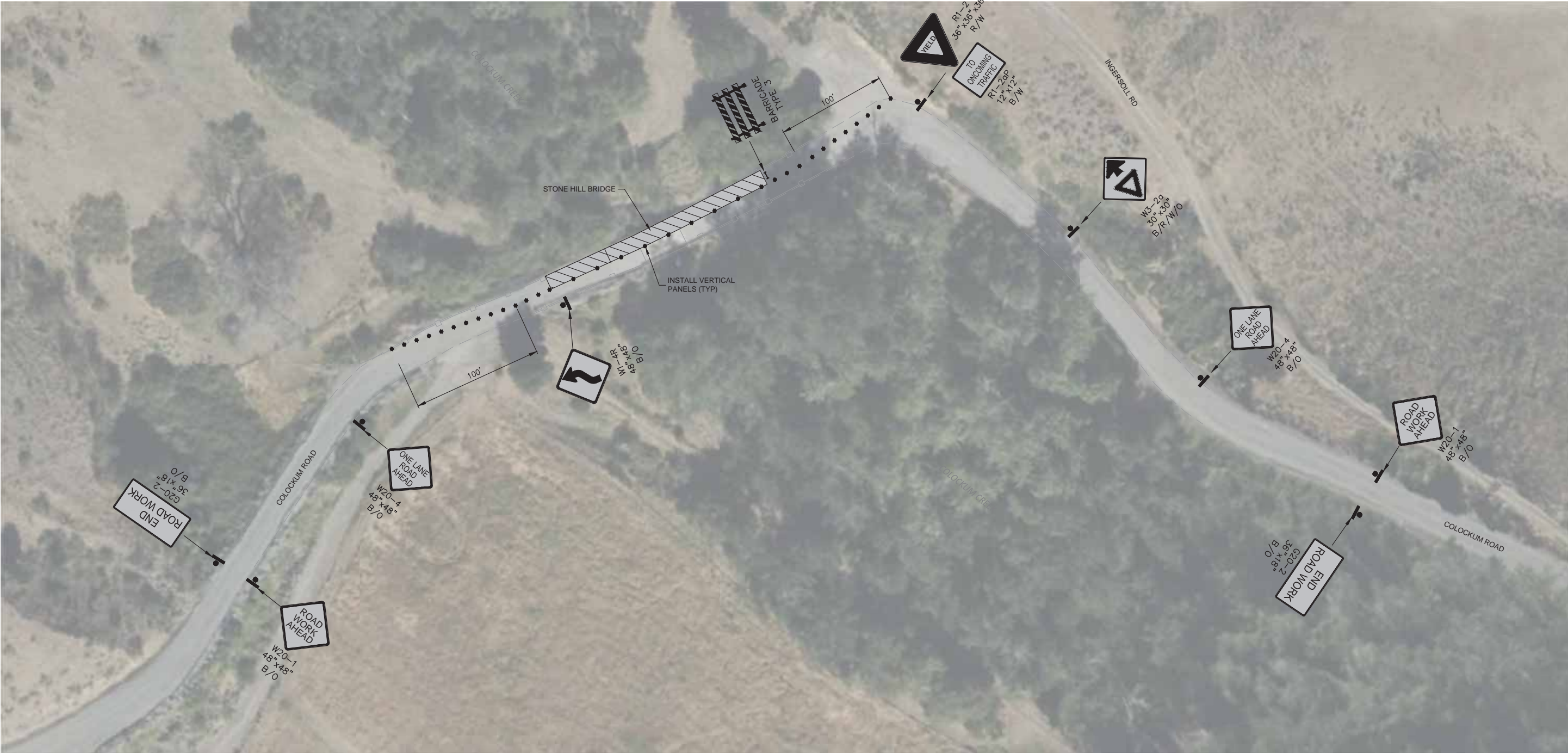


CRP 747 Bridge Deck & Joint Rehabilitation
CHELAN COUNTY, WA
CHELAN FALLS 2 BRIDGE
(BRIDGE #805A)
TRAFFIC CONTROL PLAN

DRAWN:	PROJECT NO.: 2300398
DESIGN:	SCALE:
CHECKED:	DATE: 03-12-2024
DRAWING NO.	C04
SHEET NO.	17 of 29

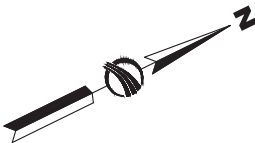
SIGN SPACING = X (1)		
RURAL HIGHWAYS	60-65 MPH	800'
RURAL ROADS	45-55 MPH	500'
RURAL ROADS	25-35 MPH	100'
(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERCHANGE RAMPS, AT-GRADE INTERSECTIONS AND DRIVEWAYS.		

MAXIMUM CHANNELIZATION DEVICE SPACING	
TAPER	TANGENT
10'	20'



LEGEND	
	CONSTRUCTION SIGN, CLASS A
	CHANNELIZING DEVICE (TUBULAR MARKER)
	WORK ZONE

- GENERAL NOTES:**
- 1.CONTRACTOR TO INSTALL TRAFFIC CONTROL PER MUTCD TYPICAL APPLICATION 11.
 2. CONTRACTOR SHALL MIRROR TRAFFIC CONTROL SETUP FOR WORK IN OPPOSITE DIRECTION.
- B/W - BLACK ON WHITE BACKGROUND SIGN
B/O - BLACK ON ORANGE BACKGROUND SIGN
B/R/W/O - BLACK, RED, WHITE ON ORANGE BACKGROUND SIGN
R/W - RED ON WHITE BACKGROUND SIGN



NO.	DATE	BY	REVISION

Chelan County

316 Washington Street, Suite 402
Wenatchee, Washington, 98801

509. 667. 6415
www.co.chelan.wa.us



CRP 747 Bridge Deck & Joint Rehabilitation
CHELAN COUNTY, WA

STONE HILL BRIDGE
(BRIDGE #915)
TRAFFIC CONTROL PLAN

DRAWN:	PROJECT NO.: 2300398
DESIGN:	SCALE:
CHECKED:	DATE: 03-12-2024
DRAWING NO.	C05
SHEET NO.	18 of 29

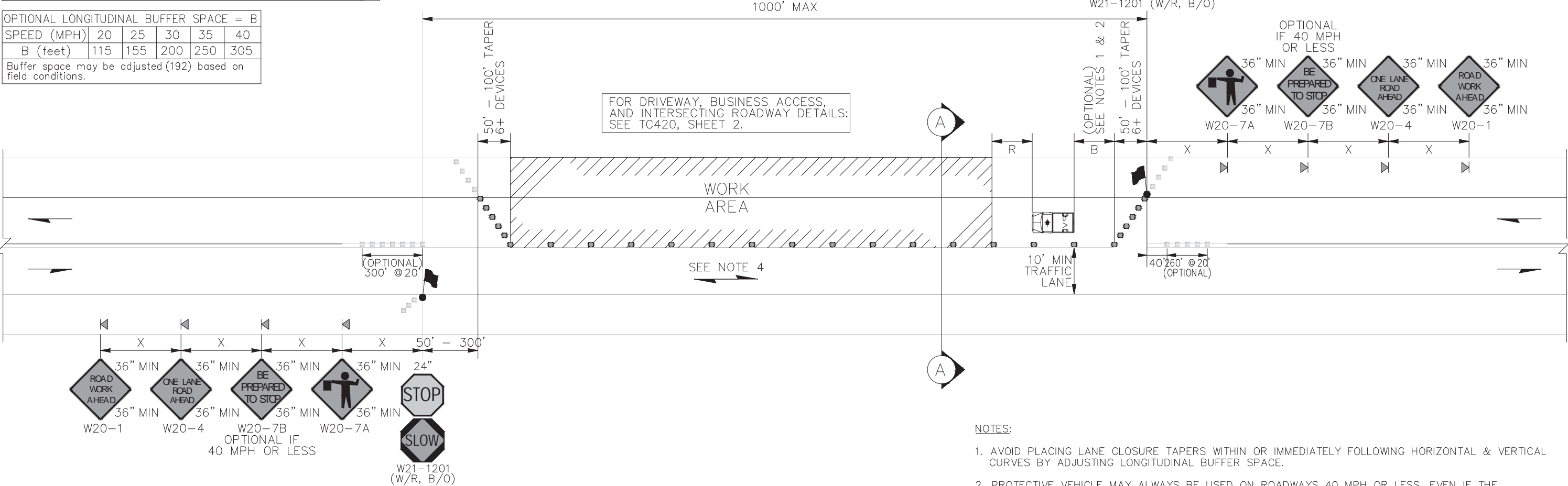
CAD USER: emurguia PLOT DATE: Mar 12, 2024-04:02pm
PATH: Z:\Civitech\Projects\23-0680 KPFF- WSDOT Chelan Co CRP747 Bridge Rehab\Drawings\23-0680_DT02.dwg

RECOMMENDED SIGN SPACING = X (1)			
RURAL ROADS & URBAN ARTERIALS	35-40 MPH	350'	À (2)
RURAL ROADS & URBAN ARTERIALS	25-30 MPH	200'	À (2)
RESIDENTIAL & BUSINESS DISTRICTS			
URBAN STREETS	25 MPH OR LESS	100'	À (2)
(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERCHANGE RAMP, AT-GRADE INTERSECTIONS AND DRIVEWAYS.			
(2) THIS SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROADWAY CONDITIONS.			

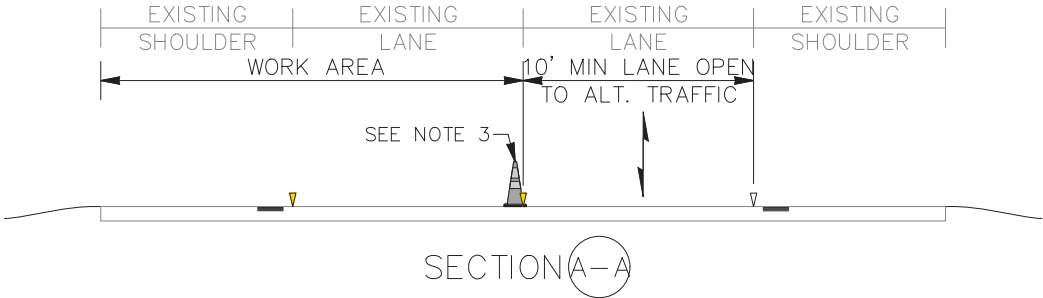
MAXIMUM CHANNELIZATION DEVICE SPACING (feet)		
MPH	TAPER	TANGENT
35 - 40	10 to 20	60
20 - 30	10 to 20	40

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

OPTIONAL LONGITUDINAL BUFFER SPACE = B					
SPEED (MPH)	20	25	30	35	40
B (feet)	115	155	200	250	305
Buffer space may be adjusted (192) based on field conditions.					



LEGEND:	
	TEMPORARY SIGN LOCATION
	28" REFLECTIVE TRAFFIC CONE (SEE NOTE 3)
	OPTIONAL CHANNELIZATION DEVICE
	PROTECTIVE VEHICLE (SEE NOTE 2)
	FLAGGER



ALTERNATING 1-LANE, 2-WAY TRAFFIC: FLAGGER-CONTROLLED
(HIGHWAYS, 40 MPH OR LESS)
NOT TO SCALE

NOTES:

1. AVOID PLACING LANE CLOSURE TAPERS WITHIN OR IMMEDIATELY FOLLOWING HORIZONTAL & VERTICAL CURVES BY ADJUSTING LONGITUDINAL BUFFER SPACE.
2. PROTECTIVE VEHICLE MAY ALWAYS BE USED ON ROADWAYS 40 MPH OR LESS, EVEN IF THE LONGITUDINAL BUFFER SPACE IS REDUCED OR ELIMINATED. ADDITIONAL PVs MAY BE ADDED AT SEPARATE WORK CREWS.
3. 36" TRAFFIC CONES, 42" TALL CHANNELIZATION DEVICES, OR TRAFFIC SAFETY DRUMS.
4. PEDESTRIAN & BICYCLIST ACCOMMODATIONS (ENGINEER TO ACCEPT ANY ALTERNATIVE STRATEGIES):
(A) ALLOW PEDESTRIANS TO USE THE PAVED SHOULDER OR ADJACENT PATH OPPOSITE THE WORK AREA
(B) COMBINE BIKES & VEHICULAR TRAFFIC. BIKES TO CLEAR PRIOR TO RELEASING ONCOMING TRAFFIC
5. FOR PROJECT-SPECIFIC REQUIREMENTS, SEE SPECIAL PROVISIONS.
6. SIGNS ARE BLACK ON ORANGE UNLESS OTHERWISE INDICATED.
7. ACTUAL CENTERLINE PAVEMENT MARKINGS MAY VARY.



NO.	DATE	BY	REVISION

Chelan County

316 Washington Street, Suite 402
Wenatchee, Washington, 98801

509. 667. 6415
www.co.chelan.wa.us

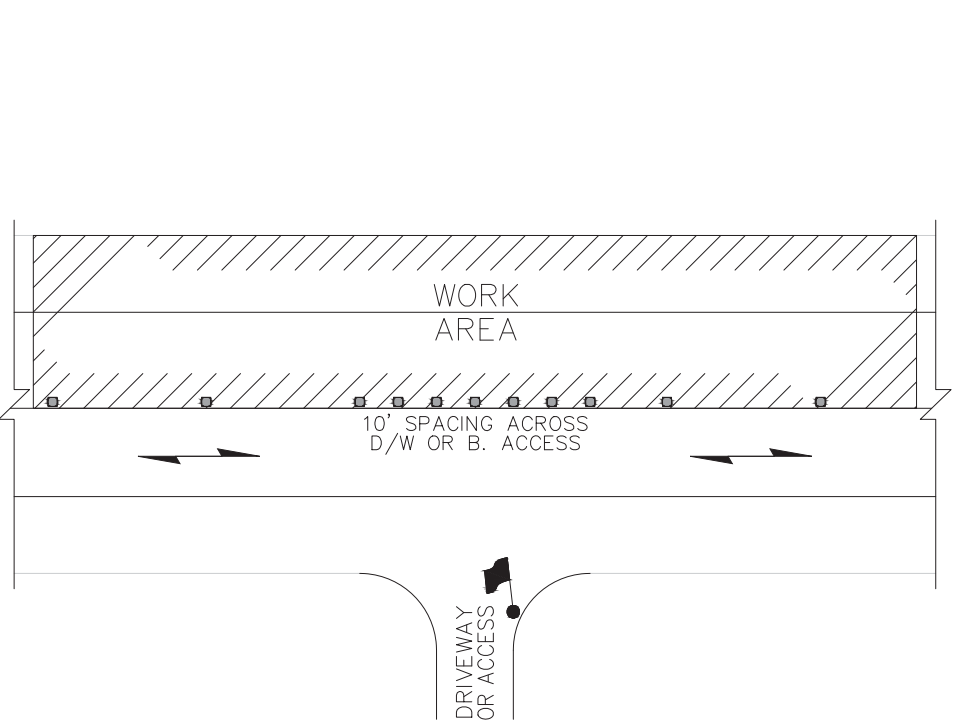
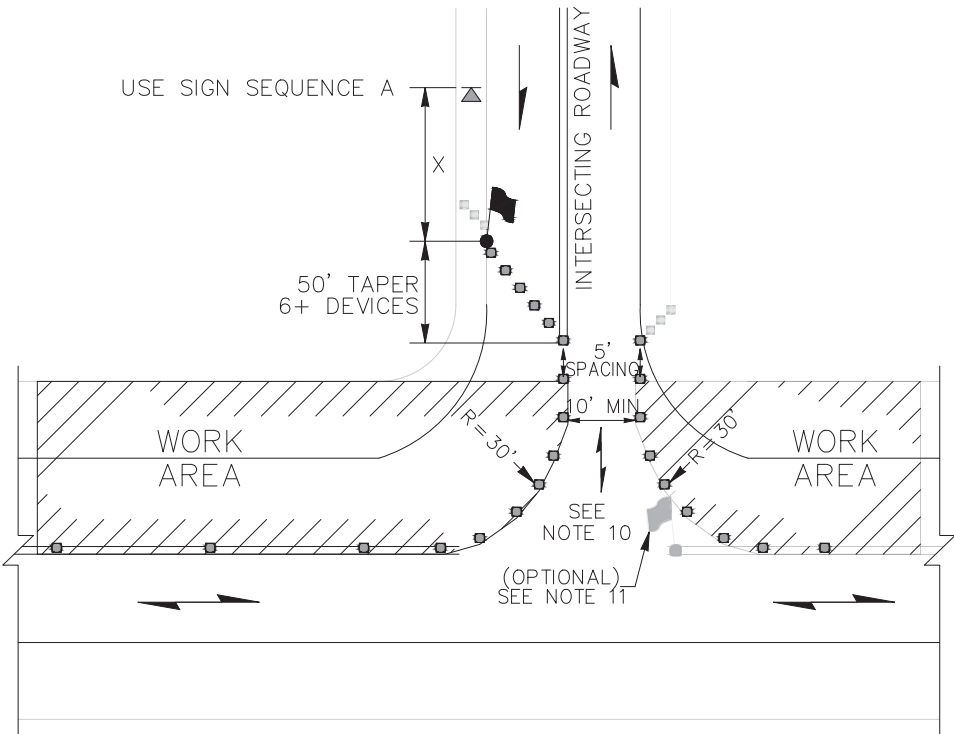
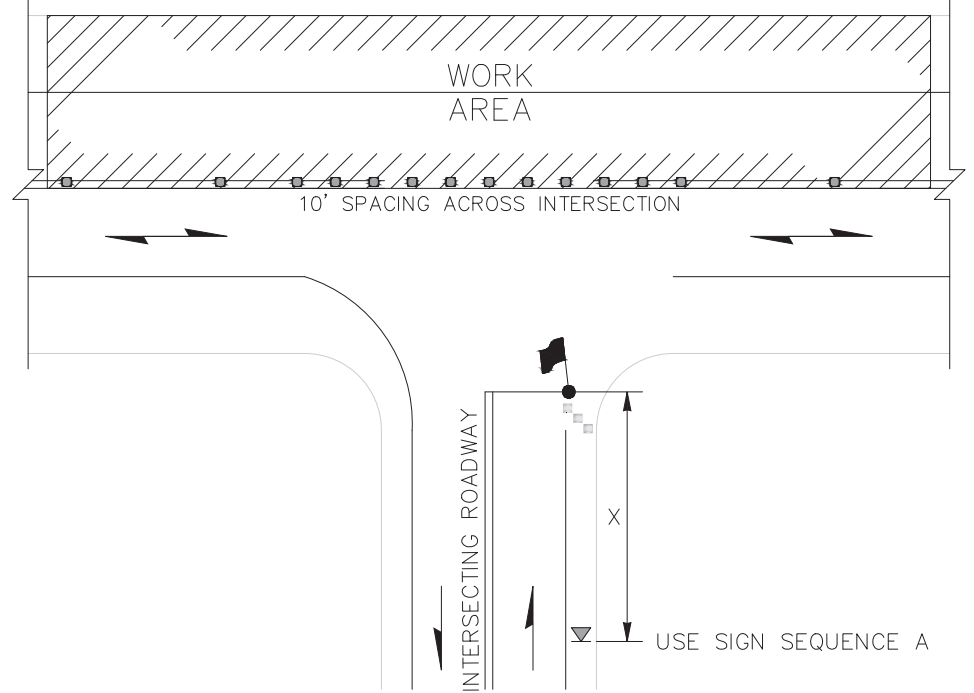
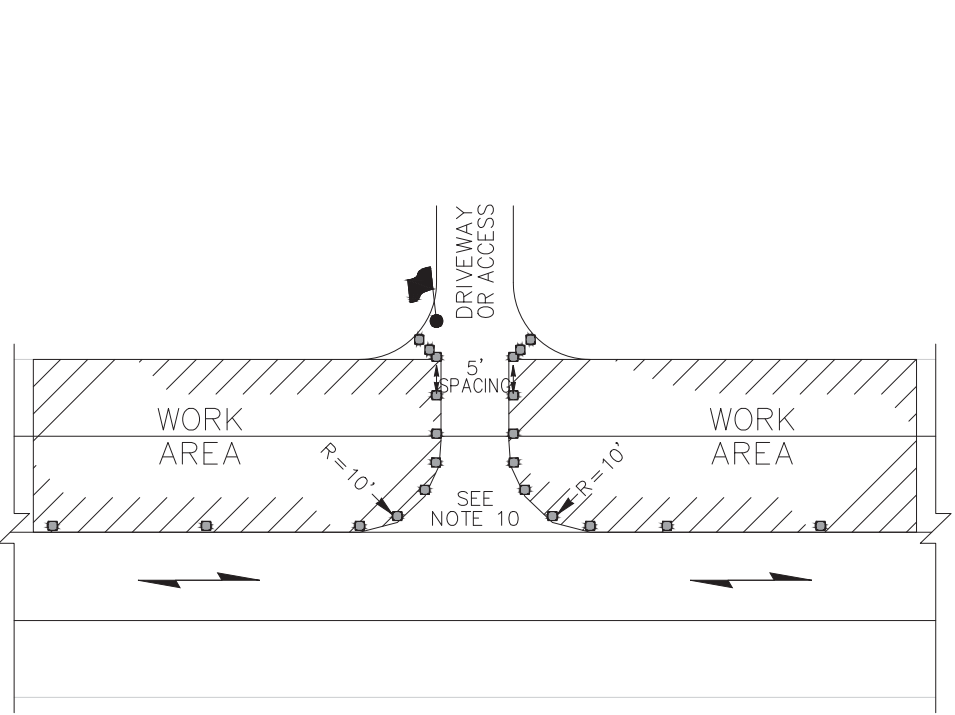
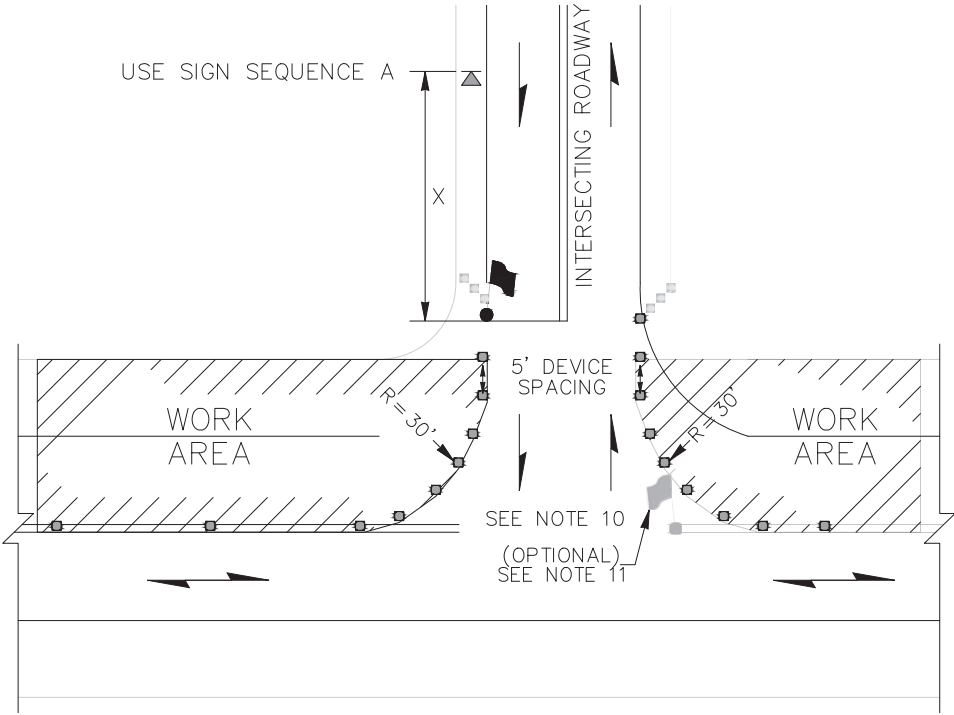
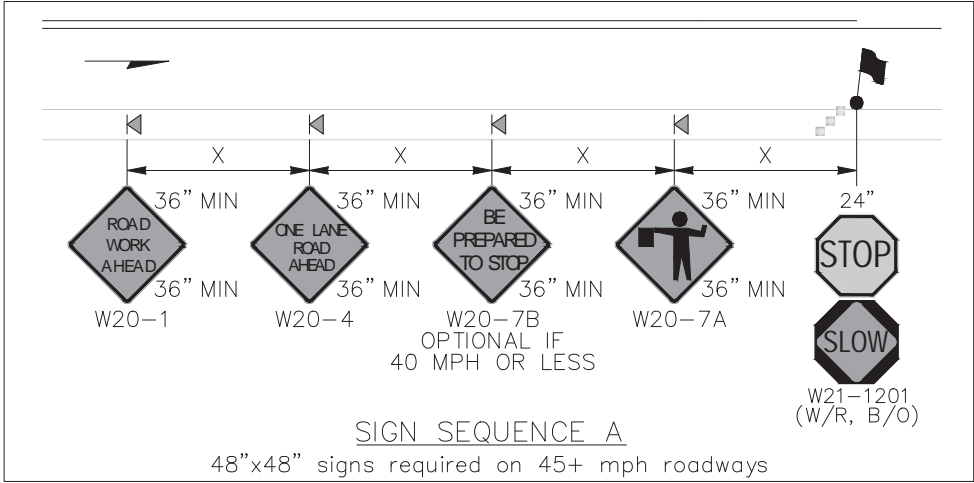


CRP 747 Bridge Deck & Joint Rehabilitation
CHELAN COUNTY, WA

TRAFFIC CONTROL DETAIL

DRAWN:	PROJECT NO.: 2300398
DESIGN:	SCALE:
CHECKED:	DATE: 03-12-2024
DRAWING NO.	C07
SHEET NO.	20 OF 29

- NOTES:
8. WORK MAY BRIEFLY OCCUR WITHIN LANE CLOSURE ACROSS INTERSECTING ROADWAY APPROACHES, BUSINESS ACCESSES, OR DRIVEWAYS. MAY HOLD APPROACH OR ACCESS TRAFFIC FOR 5 MINUTES OR LESS (ENGINEER MAY ACCEPT HOLDS UP TO 10 MINUTES) WHILE RESTRICTING TURNS FROM MAINLINE. CHANNELIZATION DEVICES DELINEATING APPROACH OR ACCESS MAY BE REMOVED OR RELOCATED AS NEEDED.
9. SINGLE FLAGGER (WITH RED FLAG/ RED GLOW CONE FLASHLIGHT) MAY BE ADDED TO THE INTERSECTING ROADWAY APPROACH TO HELP GUIDE ALTERNATING & TURNING TRAFFIC.



ALTERNATING 1-LANE, 2-WAY TRAFFIC: FLAGGER-CONTROLLED
(HIGHWAYS, 40 MPH OR LESS)
NOT TO SCALE

CAD USER: emurguia PLOT DATE: Mar 12, 2024-04:02pm
PATH: Z:\Civitech\Projects\23-0680 KPFF- WSDOT Chelan Co CRP747 Bridge Rehab\Drawings\23-0680_DT02.dwg



NO.	DATE	BY	REVISION

Chelan County

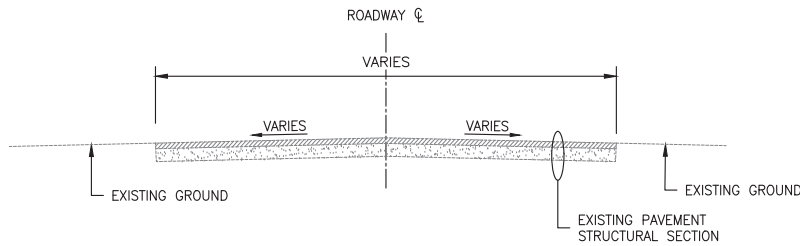
316 Washington Street, Suite 402
Wenatchee, Washington, 98801
509. 667. 6415
www.co.chelan.wa.us



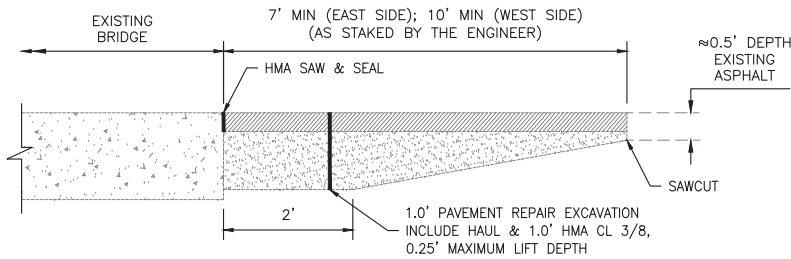
CRP 747 Bridge Deck & Joint Rehabilitation
CHELAN COUNTY, WA

TYPICAL TRAFFIC CONTROL PLANS

DRAWN:	PROJECT NO.: 2300398
DESIGN:	SCALE:
CHECKED:	DATE: 03-12-2024
DRAWING NO.	C08
SHEET NO.	21 OF 29



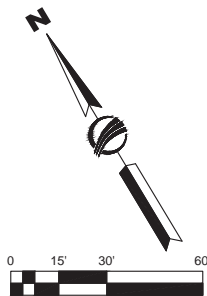
TYPICAL SECTION
N.T.S.



SECTION A
N.T.S.

GENERAL NOTES:

1. ALL MATERIALS AND WORK SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION, DATED 2023.
2. THE DIMENSIONS SHOWN IN THE PLANS ARE APPROXIMATE. ALL RELEVANT DETAILS AND DIMENSIONS SHALL BE FIELD MEASURED AND VERIFIED BY THE CONTRACTOR PRIOR TO ORDERING MATERIALS AND PROCEEDING WITH CONSTRUCTION.
3. CONTRACTOR SHALL NOT PLACE EXCAVATED MATERIAL ON THE BRIDGE.



NO.	DATE	BY	REVISION

Chelan County

316 Washington Street, Suite 402
Wenatchee, Washington, 98801

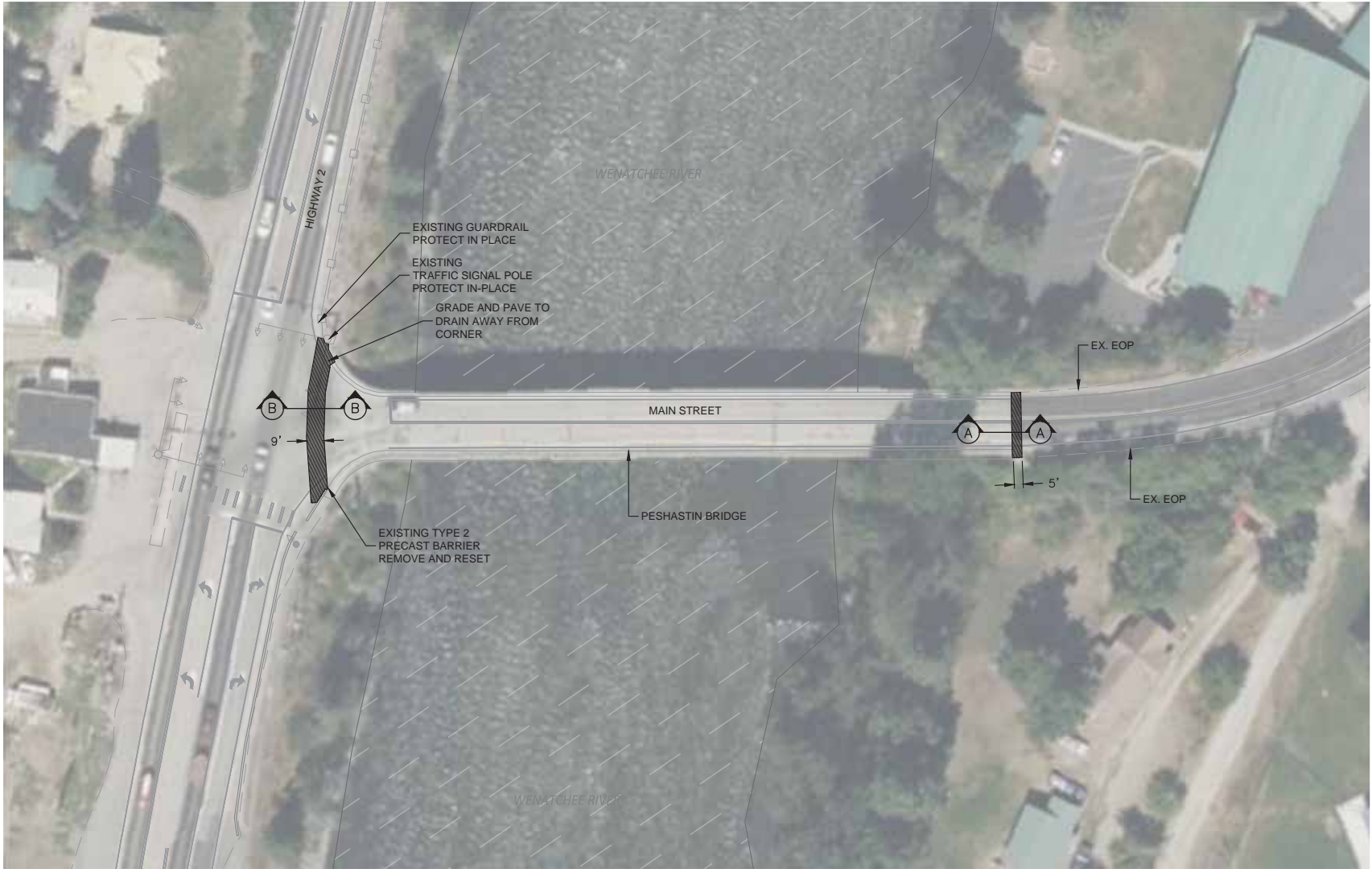
509. 667. 6415
www.co.chelan.wa.us



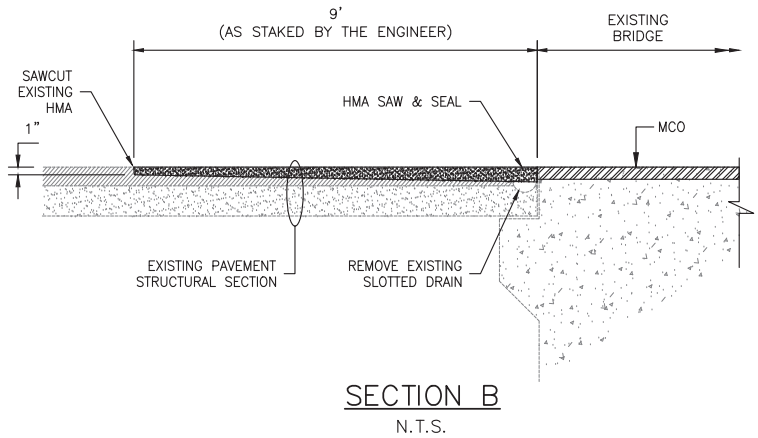
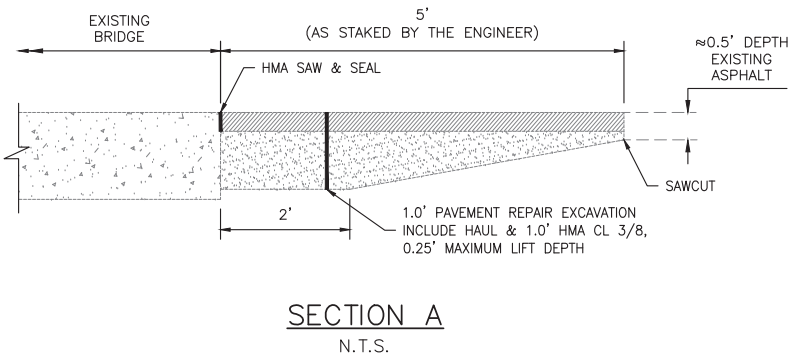
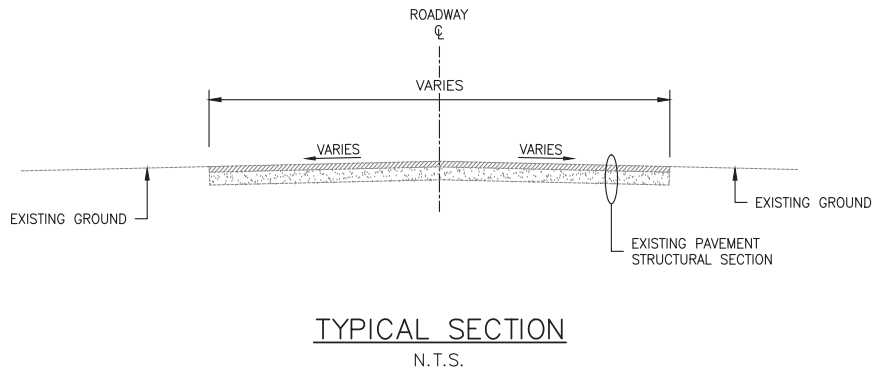
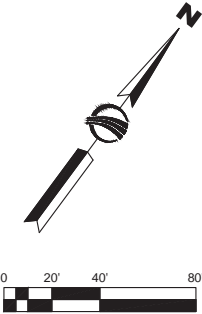
CRP 747 Bridge Deck & Joint Rehabilitation
CHELAN COUNTY, WA

ARDENVOIR BRIDGE
(BRIDGE #505A)
MILL & OVERLAY PLAN

DRAWN:	PROJECT NO.: 2300398
DESIGN:	SCALE:
CHECKED:	DATE: 03-12-2024
DRAWING NO.	C09
SHEET NO.	22 OF 29



- GENERAL NOTES:**
1. ALL MATERIALS AND WORK SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION, DATED 2023.
 2. THE DIMENSIONS SHOWN IN THE PLANS ARE APPROXIMATE. ALL RELEVANT DETAILS AND DIMENSIONS SHALL BE FIELD MEASURED AND VERIFIED BY THE CONTRACTOR PRIOR TO ORDERING MATERIALS AND PROCEEDING WITH CONSTRUCTION.
 3. CONTRACTOR SHALL NOT PLACE EXCAVATED MATERIAL ON THE BRIDGE.



CAD USER: emurguia PLOT DATE: Mar 12, 2024-04:02pm
PATH: Z:\Civitech\Projects\23-0680 KPFF- WSDOT Chelan Co CRP747 Bridge Rehab\Drawings\Sheets\23-0680_P02.dwg



NO.	DATE	BY	REVISION

Chelan County

316 Washington Street, Suite 402
Wenatchee, Washington, 98801

509. 667. 6415
www.co.chelan.wa.us

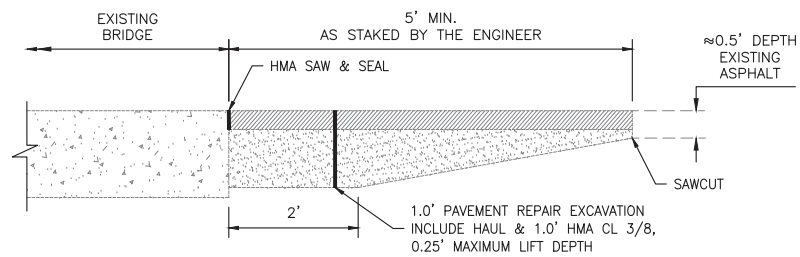
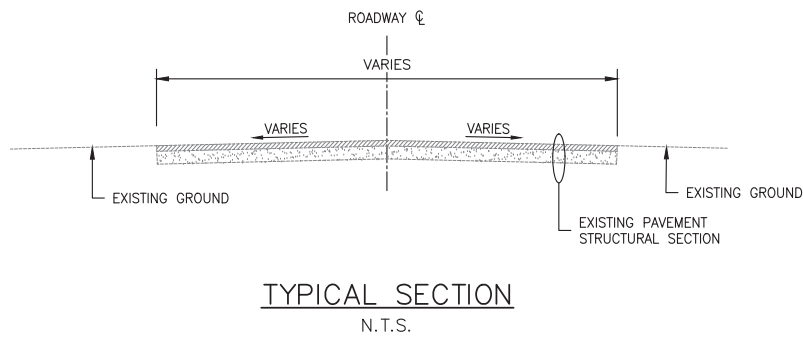


CRP 747 Bridge Deck & Joint Rehabilitation CHELAN COUNTY, WA

PESHASTIN BRIDGE
(BRIDGE #411A)
MILL & OVERLAY PLAN

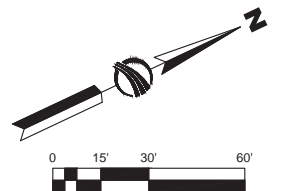
DRAWN:	PROJECT NO.: 2300398
DESIGN:	SCALE:
CHECKED:	DATE: 03-12-2024
DRAWING NO.	C10
SHEET NO.	23 OF 29

CAD USER: emurguia PLOT DATE: Mar 12, 2024-04:03pm
PATH: Z:\Civitech\Projects\23-0680 KPFF- WSDOT Chelan Co CRP747 Bridge Rehab\Drawings\23-0680_P03.dwg



GENERAL NOTES:

1. ALL MATERIALS AND WORK SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION, DATED 2023.
2. THE DIMENSIONS SHOWN IN THE PLANS ARE APPROXIMATE. ALL RELEVANT DETAILS AND DIMENSIONS SHALL BE FIELD MEASURED AND VERIFIED BY THE CONTRACTOR PRIOR TO ORDERING MATERIALS AND PROCEEDING WITH CONSTRUCTION.
3. CONTRACTOR SHALL NOT PLACE EXCAVATED MATERIAL ON THE BRIDGE.



NO.	DATE	BY	REVISION

Chelan County

316 Washington Street, Suite 402
Wenatchee, Washington, 98801

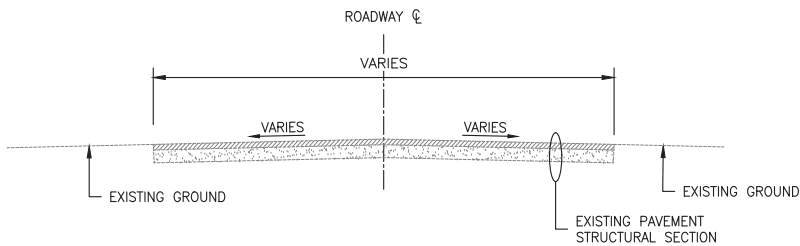
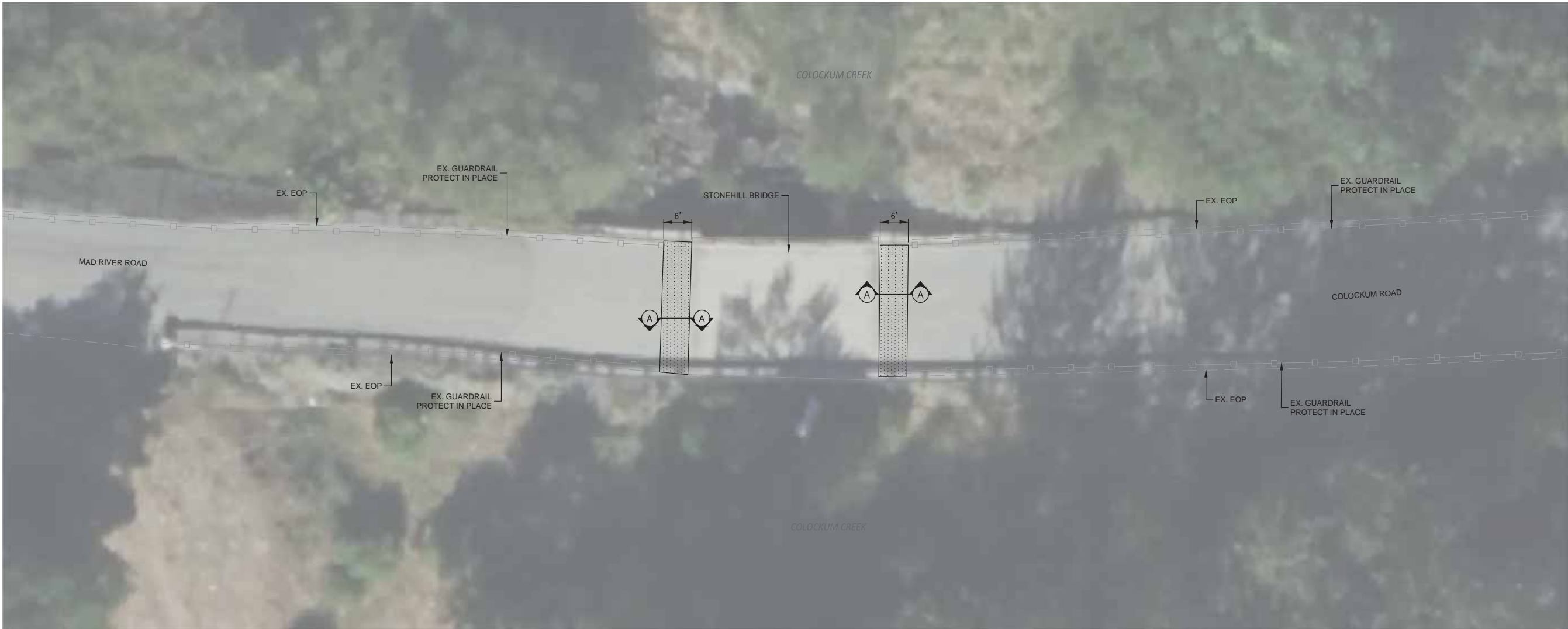
509. 667. 6415
www.co.chelan.wa.us



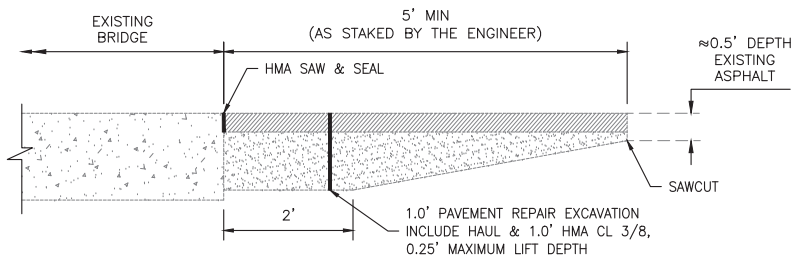
CRP 747 Bridge Deck & Joint Rehabilitation
CHELAN COUNTY, WA

CHELAN FALLS 2 BRIDGE
(BRIDGE #805A)
MILL & OVERLAY PLAN

DRAWN:	PROJECT NO.: 2300398
DESIGN:	SCALE:
CHECKED:	DATE: 03-12-2024
DRAWING NO.	C11
SHEET NO.	24 OF 29



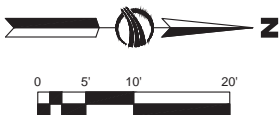
TYPICAL SECTION
N.T.S.



SECTION A
N.T.S.

GENERAL NOTES:

1. ALL MATERIALS AND WORK SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION, DATED 2023.
2. THE DIMENSIONS SHOWN IN THE PLANS ARE APPROXIMATE. ALL RELEVANT DETAILS AND DIMENSIONS SHALL BE FIELD MEASURED AND VERIFIED BY THE CONTRACTOR PRIOR TO ORDERING MATERIALS AND PROCEEDING WITH CONSTRUCTION.
3. CONTRACTOR SHALL NOT PLACE EXCAVATED MATERIAL ON THE BRIDGE.



CAD USER: emurgio PLOT DATE: Mar 12, 2024-04:03pm
PATH: Z:\Civitech\Projects\23-0680 KPFF- WSDOT Chelan Co CRP747 Bridge Rehab\Drawings\23-0680_P04.dwg



NO.	DATE	BY	REVISION

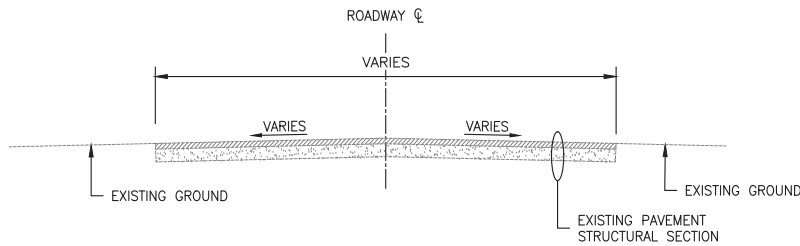
Chelan County

316 Washington Street, Suite 402
Wenatchee, Washington, 98801
509. 667. 6415
www.co.chelan.wa.us

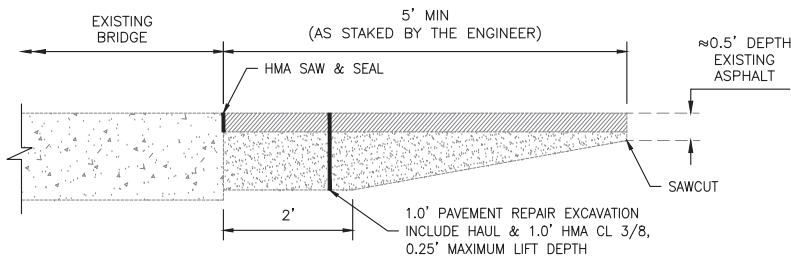


CRP 747 Bridge Deck & Joint Rehabilitation
CHELAN COUNTY, WA
STONE HILL BRIDGE
(BRIDGE #915)
MILL & OVERLAY PLAN

DRAWN:	PROJECT NO.: 2300398
DESIGN:	SCALE:
CHECKED:	DATE: 03-12-2024
DRAWING NO.	C12
SHEET NO.	25 OF 29



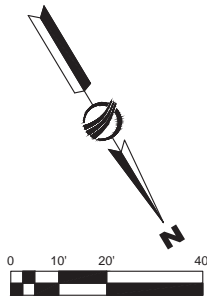
TYPICAL SECTION
N.T.S.



SECTION A
N.T.S.

GENERAL NOTES:

1. ALL MATERIALS AND WORK SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION, DATED 2023.
2. THE DIMENSIONS SHOWN IN THE PLANS ARE APPROXIMATE. ALL RELEVANT DETAILS AND DIMENSIONS SHALL BE FIELD MEASURED AND VERIFIED BY THE CONTRACTOR PRIOR TO ORDERING MATERIALS AND PROCEEDING WITH CONSTRUCTION.
3. CONTRACTOR SHALL NOT PLACE EXCAVATED MATERIAL ON THE BRIDGE.



CAD USER: emurguia PLOT DATE: Mar 12, 2024-04:03pm
PATH: Z:\Civitech\Projects\23-0680 KPFF- WSDOT Chelan Co CRP747 Bridge Rehab\Drawings\23-0680_P05.dwg



NO.	DATE	BY	REVISION

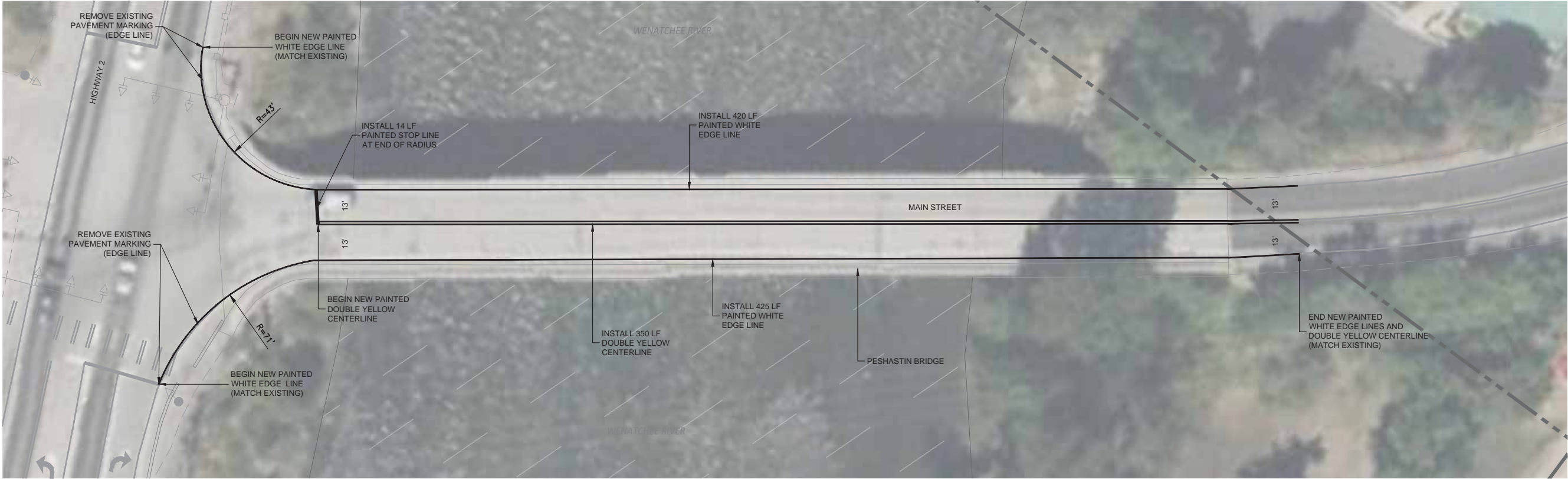
Chelan County

316 Washington Street, Suite 402
Wenatchee, Washington, 98801
509. 667. 6415
www.co.chelan.wa.us



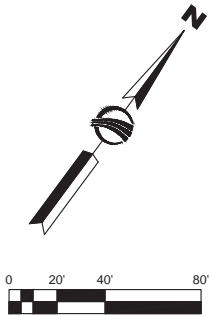
CRP 747 Bridge Deck & Joint Rehabilitation
CHELAN COUNTY, WA
NEW GRIFFITH BRIDGE
(BRIDGE #503B)
MILL & OVERLAY PLAN

DRAWN:	PROJECT NO.: 2300398
DESIGN:	SCALE:
CHECKED:	DATE: 03-12-2024
DRAWING NO.	C13
SHEET NO.	26 OF 29



PAVEMENT MARKING GENERAL NOTES:

1. CONTRACTOR SHALL PROTECT IN PLACE EXISTING SIGNS, SIGN POSTS, AND SIGN FOUNDATIONS. ANY SIGNS REMOVED BY CONTRACTOR SHALL BE REPLACED WITH NEW SIGN PANELS, SIGN POSTS, AND SIGN FOUNDATIONS.



NO.	DATE	BY	REVISION

Chelan County

316 Washington Street, Suite 402
Wenatchee, Washington, 98801

509. 667. 6415
www.co.chelan.wa.us



CRP 747 Bridge Deck & Joint Rehabilitation
CHELAN COUNTY, WA

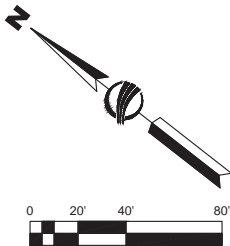
PESHASTIN BRIDGE
(BRIDGE #411A)
PAVEMENT MARKING PLAN

DRAWN:	PROJECT NO.: 2300398
DESIGN:	SCALE:
CHECKED:	DATE: 03-12-2024
DRAWING NO.	C14
SHEET NO.	27 OF 29



PAVEMENT MARKING GENERAL NOTES:

1. CONTRACTOR SHALL PROTECT IN PLACE EXISTING SIGNS, SIGN POSTS, AND SIGN FOUNDATIONS. ANY SIGNS REMOVED BY CONTRACTOR SHALL BE REPLACED WITH NEW SIGN PANELS, SIGN POSTS, AND SIGN FOUNDATIONS.



NO.	DATE	BY	REVISION

Chelan County

316 Washington Street, Suite 402
Wenatchee, Washington, 98801

509. 667. 6415
www.co.chelan.wa.us

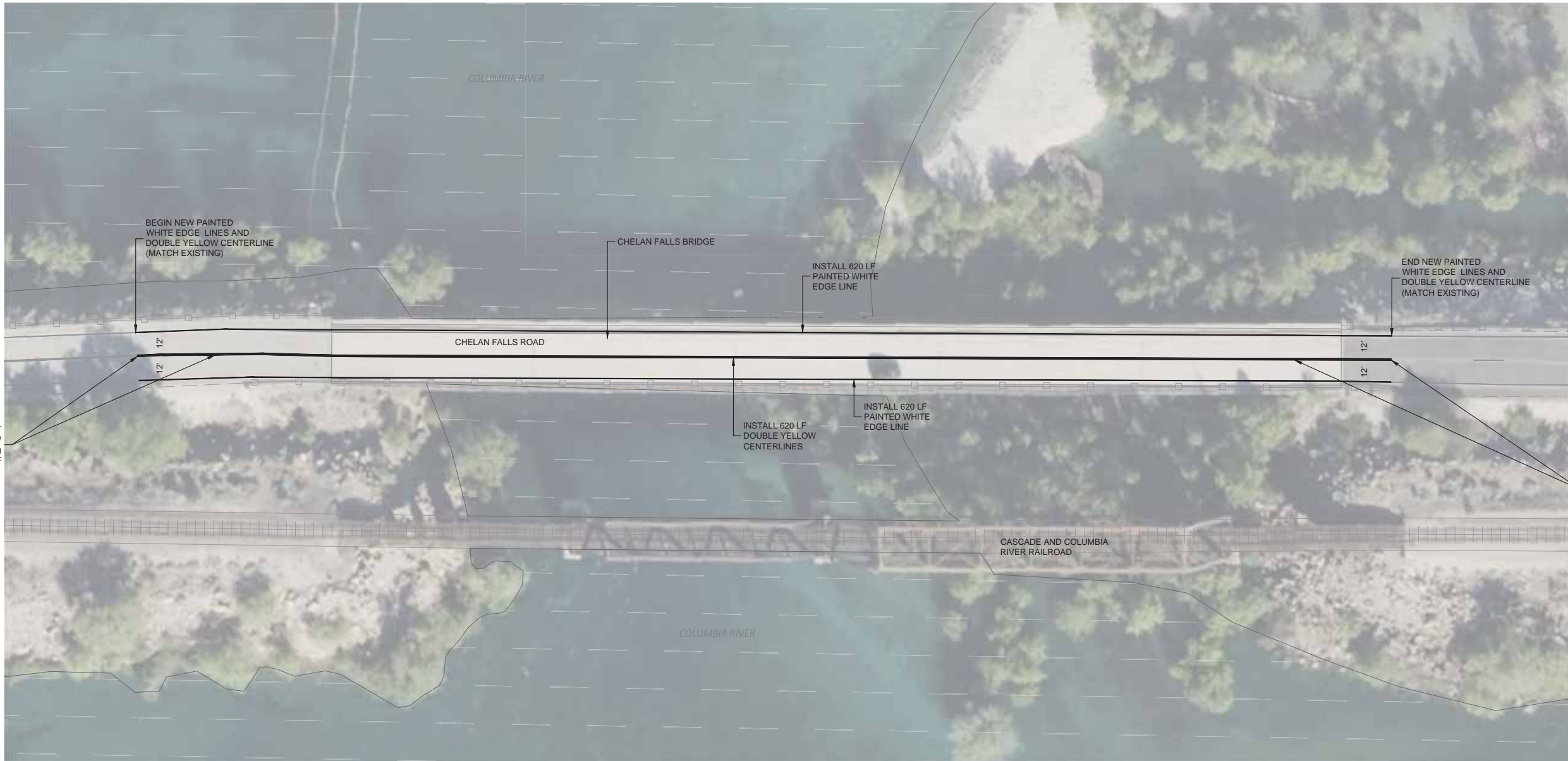


CRP 747 Bridge Deck & Joint Rehabilitation
CHELAN COUNTY, WA

NEW GRIFFITH BRIDGE
(BRIDGE #503B)
PAVEMENT MARKING PLAN

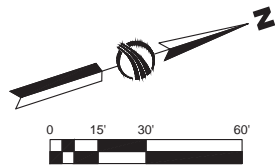
DRAWN:	PROJECT NO.: 2300398
DESIGN:	SCALE:
CHECKED:	DATE: 03-12-2024
DRAWING NO.	C15
SHEET NO.	28 OF 29

CAD USER: emurguia PLOT DATE: Mar 12, 2024-04:03pm
PATH: Z:\Civitech\Projects\23-0680 KPFF- WSDOT Chelan Co CRP747 Bridge Rehab\Drawings\23-0680_PMO3.dwg



PAVEMENT MARKING GENERAL NOTES:

1. CONTRACTOR SHALL PROTECT IN PLACE EXISTING SIGNS, SIGN POSTS, AND SIGN FOUNDATIONS. ANY SIGNS REMOVED BY CONTRACTOR SHALL BE REPLACED WITH NEW SIGN PANELS, SIGN POSTS, AND SIGN FOUNDATIONS.



NO.	DATE	BY	REVISION

Chelan County

316 Washington Street, Suite 402
Wenatchee, Washington, 98801
509. 667. 6415
www.co.chelan.wa.us



CRP 747 Bridge Deck & Joint Rehabilitation CHELAN COUNTY, WA	DRAWN: PROJECT NO.: 2300398
CHELAN FALLS 2 BRIDGE (BRIDGE #805A)	DESIGN: SCALE:
PAVEMENT MARKING PLAN	CHECKED: DATE: 03-12-2024
	DRAWING NO. C16
	SHEET NO. 29 OF 29