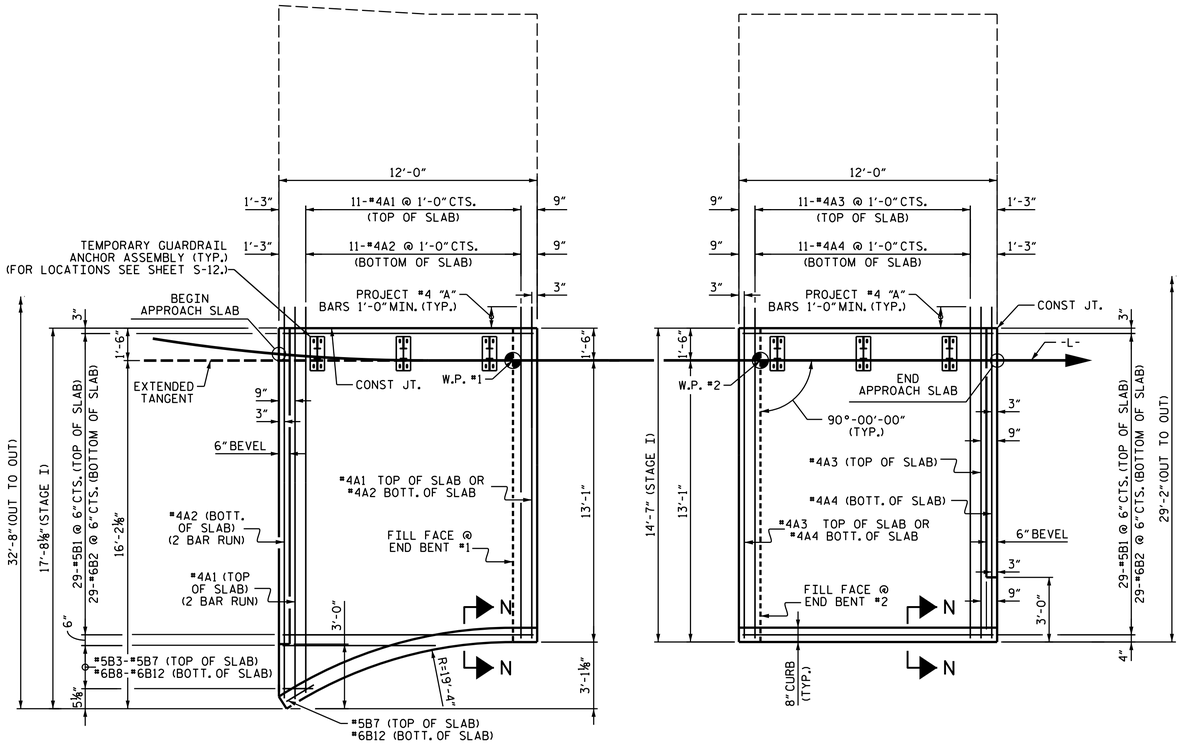
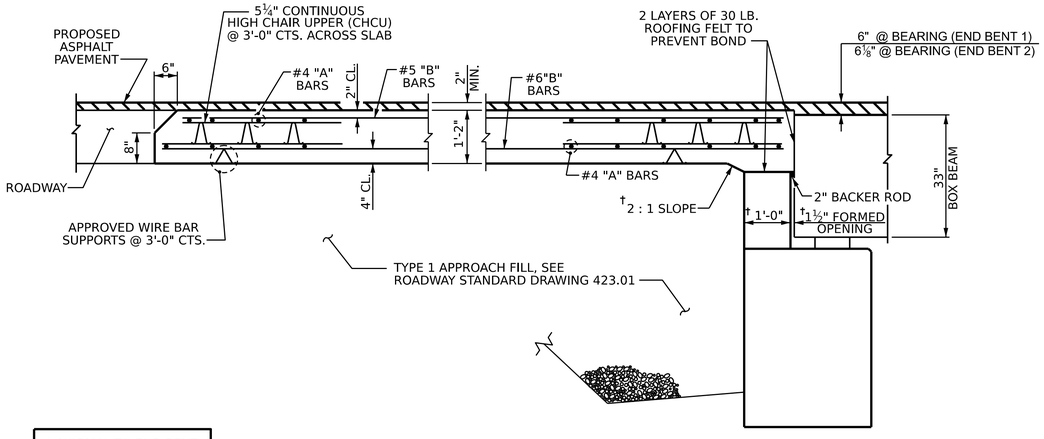
Docusign Envelope ID: 6EB0A136-41FC-8933-808B-013E80A18744



PLAN @ END BENT 1 - STAGE I

PLAN @ END BENT 2 - STAGE I



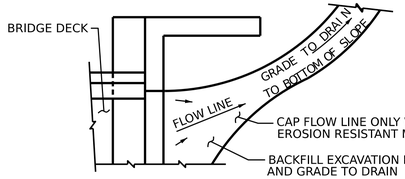
† NORMAL TO END BENT

SECTION THRU SLAB

SPLICE LENGTHS		
BAR SIZE	EPOXY COATED	UNCOATED
#4	2'-0"	1'-9"
#5	2'-6"	2'-2"
#6	3'-10"	2'-7"

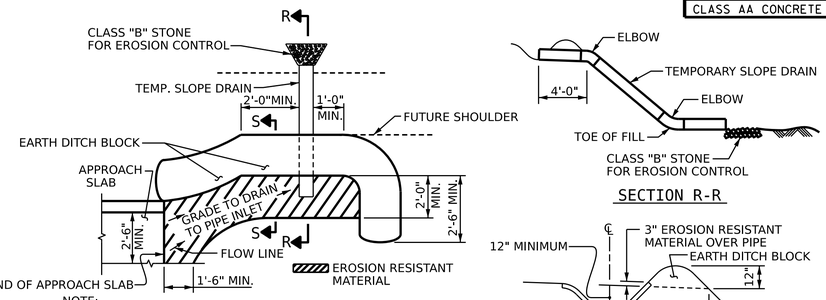
NOTES

FOR NOTES, SEE SHEET 2 OF 2.



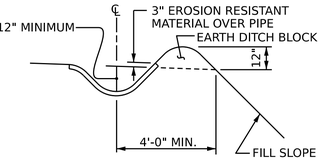
NOTE: IF THE APPROACH SLAB IS NOT CONSTRUCTED IMMEDIATELY AFTER THE BACKFILLING OF THE END BENT EXCAVATION, GRADE TO DRAIN TO THE BOTTOM OF THE SLOPE AND PROVIDE EROSION RESISTANT MATERIAL, SUCH AS FIBERGLASS ROVING OR AS DIRECTED BY THE ENGINEER TO PREVENT SOIL EROSION AND TO PROTECT THE AREA ADJACENT TO THE STRUCTURE. THE CONTRACTOR WILL BE REQUIRED TO REMOVE THESE MATERIALS PRIOR TO CONSTRUCTION OF THE APPROACH SLAB.

TEMPORARY DRAINAGE DETAIL



NOTE:
IMMEDIATELY AFTER THE CONSTRUCTION OF THE APPROACH SLAB, THE CONTRACTOR SHALL PROVIDE TEMPORARY BERM AND SLOPE DRAIN. CONTRACTOR SHALL GRADE TO PIPE INLET AND PROVIDE EROSION RESISTANT MATERIAL AS SHOWN. THE EROSION RESISTANT MATERIAL SHALL BE EITHER 1) ASPHALT PLANT MIX, TYPE 1 OR TYPE 2, MIN. 2" DEPTH, 2) EROSION CONTROL MAT, OR 3) CONCRETE, AS DIRECTED BY THE ENGINEER. THE SLOPE DRAIN SHALL CONSIST OF A NON-PERFORATED TEMPORARY DRAINAGE PIPE, 12 INCHES IN DIAMETER.

SECTION R-R

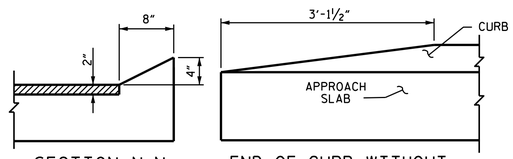


SECTION S-S

PLAN VIEW

TEMPORARY BERM AND SLOPE DRAIN DETAILS

(TO BE USED WHEN SHOULDER BERM GUTTER IS REQUIRED)



SECTION N-N

END OF CURB WITHOUT SHOULDER BERM GUTTER

CURB DETAILS

BILL OF MATERIAL					
APP. SLAB AT EB 1 - STAGE I					
BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
✱ A1	13	#4	STR	19'-3"	167
A2	13	#4	STR	19'-3"	167
✱ B1	29	#5	STR	11'-2"	338
B2	29	#6	STR	11'-8"	508
✱ B3	1	#5	STR	7'-1"	7
✱ B4	1	#5	STR	5'-0"	5
✱ B5	1	#5	STR	3'-7"	4
✱ B6	1	#5	STR	2'-5"	3
✱ B7	2	#5	STR	1'-6"	3
B8	1	#6	STR	7'-1"	11
B9	1	#6	STR	5'-0"	8
B10	1	#6	STR	3'-7"	5
B11	1	#6	STR	2'-5"	4
B12	2	#6	STR	1'-6"	5
REINFORCING STEEL				LBS.	708
✱ EPOXY COATED REINFORCING STEEL				LBS.	527
CLASS AA CONCRETE				C.Y.	8.2
APP. SLAB AT EB 2 - STAGE I					
BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
✱ A3	13	#4	STR	16'-5"	143
A4	13	#4	STR	16'-5"	143
✱ B1	29	#5	STR	11'-2"	338
B2	29	#6	STR	11'-8"	508
REINFORCING STEEL				LBS.	651
✱ EPOXY COATED REINFORCING STEEL				LBS.	481
CLASS AA CONCRETE				C.Y.	7.7

PROJECT NO. BP14-R014

SWAIN COUNTY

STATION: 12+45.82 -L-

SHEET 1 OF 2

DESIGNED BY:	E.LAWES	DATE :	OCT 2024
DRAWN BY:	E.LAWES	DATE :	APR 2026
CHECKED BY:	P.GALLAGHER	DATE :	APR 2026
DESIGN ENGINEER OF RECORD:	E.LAWES	DATE :	APR 2026

WSP USA Inc.
434 FAYETTEVILLE STREET
SUITE 1500
RALEIGH, NC 27601
TEL: 1.919.836.4040
LICENSE NO. F-0165

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

NORTH CAROLINA PROFESSIONAL SEAL 044167 7/20/2026 ENGINEER ELIZABETH F. LAWES

DocuSigned by: Elizabeth F. Lawes 935E64223CD547C...

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

BRIDGE APPROACH SLAB FOR PRESTRESSED CONCRETE BOX BEAM UNIT (STAGE I) (SUB-REGIONAL TIER) 90° SKEW

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-24
1			3			TOTAL SHEETS
2			4			25

7/20/2026
401_045_BP14_R014_SWU_AS01_23.dgn