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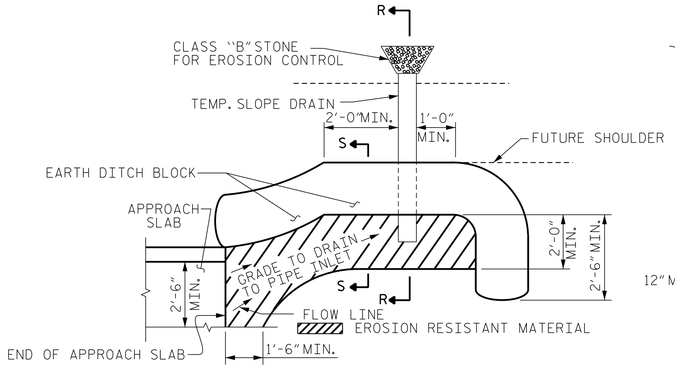
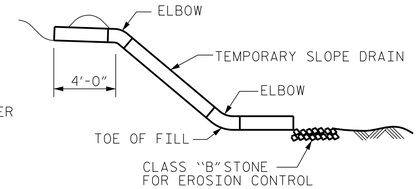
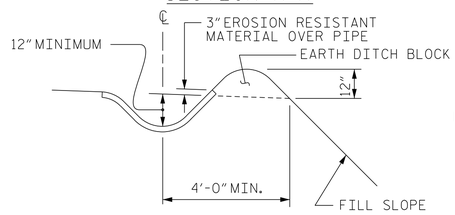


NOTE: IMMEDIATELY AFTER THE CONSTRUCTION OF THE APPROACH SLAB, THE CONTRACTOR SHALL PROVIDE TEMPORARY BERM AND SLOPE DRAIN. CONTRACTOR SHALL GRADE TO PIPE INLET AND PROVIDE EROSION RESISTANT MATERIAL AS SHOWN. THE EROSION RESISTANT MATERIAL SHALL BE EITHER 1) ASPHALT PLANT MIX, TYPE 1 OR TYPE 2, MIN. 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.

PLAN VIEW



SECTION R-R



SECTION S-S

BAR SPLICE CHART	
BAR	SPLICE
#4 "A" (TOP BAR)	2'-0"
#4 "A" (BOT. BAR)	1'-9"
#5 "B" (TOP BAR)	2'-6"
#6 "B" (BOT. BAR)	2'-7"
#4 "G"	2'-0"

BILL OF MATERIAL

APPROACH AT END BENT 1

BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
✳ A1	50	#4	STR	31'-10"	1063
A2	50	#4	STR	31'-8"	1058
✳A101	2	#4	STR	29'-4"	39
✳A102	2	#4	STR	24'-3"	32
✳A103	2	#4	STR	18'-3"	24
✳A104	1	#4	STR	26'-3"	18
✳A105	1	#4	STR	16'-2"	11
✳A106	1	#4	STR	6'-0"	4
A201	2	#4	STR	29'-3"	39
A202	2	#4	STR	24'-2"	32
A203	2	#4	STR	18'-1"	24
A204	1	#4	STR	26'-3"	18
A205	1	#4	STR	16'-2"	11
A206	1	#4	STR	6'-0"	4
✳ B1	82	#5	STR	16'-7"	1418
✳ B2	82	#5	STR	15'-7"	1333
✳ B3	82	#5	STR	14'-6"	1240
B4	82	#6	STR	16'-7"	2042
B5	82	#6	STR	15'-7"	1919
B6	82	#6	STR	14'-7"	1796
✳ G1	3	#4	STR	22'-1"	44

REINFORCING STEEL LBS. 6943

✳ EPOXY COATED REINFORCING STEEL LBS. 5226

CLASS AA CONCRETE C. Y. 75.1

BILL OF MATERIAL

APPROACH AT END BENT 2

BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
✳ A3	50	#4	STR	31'-10"	1063
A4	50	#4	STR	31'-8"	1058
✳A111	2	#4	STR	29'-8"	40
✳A112	2	#4	STR	25'-4"	34
✳A113	2	#4	STR	21'-0"	28
✳A114	2	#4	STR	16'-8"	22
✳A115	1	#4	STR	22'-8"	15
✳A116	1	#4	STR	14'-0"	9
✳A117	1	#4	STR	5'-4"	4
A211	2	#4	STR	29'-7"	40
A212	2	#4	STR	25'-3"	34
A213	2	#4	STR	20'-11"	28
A214	2	#4	STR	16'-7"	22
A215	1	#4	STR	22'-8"	15
A216	1	#4	STR	14'-0"	9
A217	1	#4	STR	5'-4"	4
✳ B11	82	#5	STR	17'-1"	1461
✳ B12	82	#5	STR	15'-11"	1361
✳ B13	82	#5	STR	14'-8"	1254
B14	82	#6	STR	17'-1"	2104
B15	82	#6	STR	15'-11"	1960
B16	82	#6	STR	14'-9"	1817
✳ G2	3	#4	STR	22'-0"	44

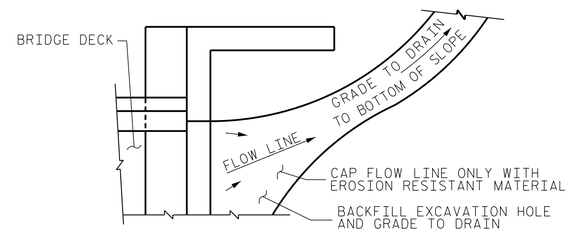
REINFORCING STEEL LBS. 7091

✳ EPOXY COATED REINFORCING STEEL LBS. 5335

CLASS AA CONCRETE C. Y. 76.4

TEMPORARY BERM AND SLOPE DRAIN DETAILS

(TO BE USED WHEN SHOULDER BERM GUTTER IS REQUIRED)



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

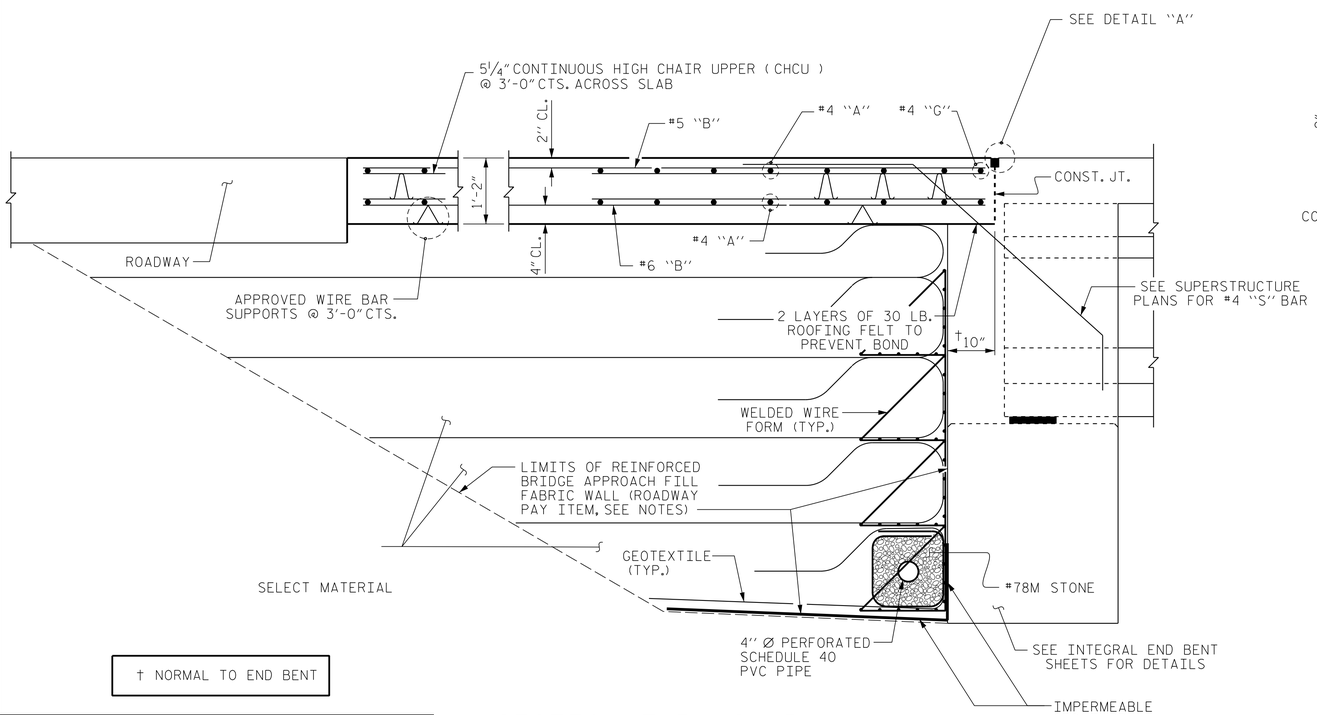
NOTES

APPROACH SLAB SHALL NOT BE CONSTRUCTED PRIOR TO COMPLETION OF THE BRIDGE DECK.

FOR REINFORCED BRIDGE APPROACH FILL FABRIC WALL INCLUDING GEOTEXTILE, IMPERMEABLE GEOMEMBRANE, 4" Ø DRAINAGE PIPE, #78M STONE, WELDED WIRE FORM, AND SELECT MATERIAL, SEE ROADWAY PLANS.

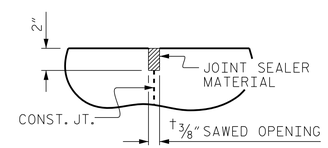
AREA BETWEEN THE WINGWALL AND APPROACH SLAB SHALL BE GRADED TO DRAIN THE WATER AWAY FROM THE FILL FACE OF THE BRIDGE AND SHALL BE PAVED. SEE ROADWAY PLANS.

THE JOINT OPENING AT THE APPROACH SLAB/DECK INTERFACE SHALL BE SAWED NO MORE THAN 12 HOURS AFTER THE APPROACH SLAB IS CAST. THE JOINT SHALL BE CLEANED OF ALL DEBRIS BEFORE THE SEALANT IS APPLIED. THE JOINT SEALER MATERIAL SHALL CONFORM TO THE REQUIREMENTS OF SECTION 1028-3 OF THE STANDARD SPECIFICATIONS.

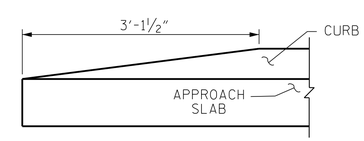


† NORMAL TO END BENT

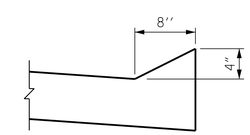
SECTION THRU SLAB



DETAIL "A"



END OF CURB WITHOUT SHOULDER BERM GUTTER



SECTION N-N

PROJECT NO. U-2579B

FORSYTH COUNTY

STATION: 642+81.42 -L-

SHEET 2 OF 2

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

BRIDGE APPROACH SLAB FOR INTEGRAL ABUTMENT

(LEFT LANE)

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-506
1			3			TOTAL SHEETS
2			4			707

NORTH CAROLINA PROFESSIONAL SEAL — JOHN T. DIFFEE — 02689 — ENGINEER

WETHERILL ENGINEERING
559 Jones Franklin Rd. Suite 164
Raleigh, N.C. 27606
Bus: 919 851 8077
Fax: 919 851 8107
License: F-0377

TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

DRAWN BY : B.C. HUNT DATE : 3-5-14
CHECKED BY : G. M. GILLAND DATE : 3-26-14
DESIGN ENGINEER OF RECORD: T. DIFFEE DATE : 4-15-14

P:\2013\13109.22 U-2579B\Structures\DGN\Str 13 (L-LtLane)\U-2579B_SD_STR13_AS_WE1.dgn
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