

PLAN @ END BENT 1

PLAN @ END BENT 2

* DENOTES RADIAL DIMENSION

NOTES

FOR BRIDGE APPROACH FILL INCLUDING GEOTEXTILE, 6" Ø DRAINAGE PIPE, AND SELECT MATERIAL BACKFILL, SEE ROADWAY PLANS.

GEOTEXTILE SHALL BE TYPE 1 IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS SECTION 1056.

SELECT MATERIAL BACKFILL (CLASS V OR CLASS VI) SHALL BE IN ACCORDANCE WITH STANDARD SPECIFICATIONS SECTION 1016.

SELECT MATERIAL BACKFILL IS TO BE CONTINUOUS ALONG FILL FACE OF BACKWALL FROM OUTSIDE EDGE TO OUTSIDE EDGE OF APPROACH SLAB.

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

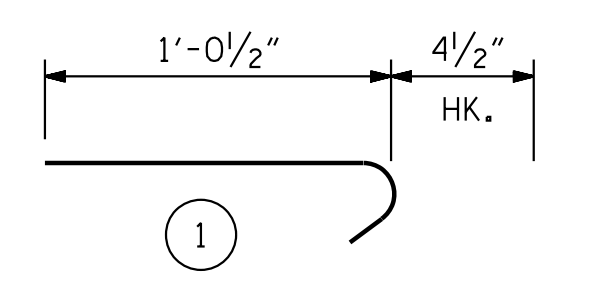
FOR THE 6" Ø DRAINAGE PIPE OUTLET(S), SEE ROADWAY STANDARD DRAWINGS.

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.

FOR EXPANSION JOINT SEALS, SEE SPECIAL PROVISIONS.

SPLICE LENGTHS		
BAR SIZE	EPOXY COATED	UNCOATED
#4	1'-11"	1'-7"
#5	2'-5"	2'-0"
#6	3'-7"	2'-5"

BILL OF MATERIAL					
BEGIN APPROACH SLAB					
BAR NO.	SIZE	TYPE	LENGTH	WEIGHT	
*A1	75	#4	STR 31'-6"	1,578	
A2	78	#4	STR 31'-3"	1,628	
*B1	316	#5	STR 13'-6"	4,449	
B2	316	#6	STR 13'-7"	6,447	
*B3	4	#5	STR 9'-9"	41	
B4	4	#6	STR 9'-9"	59	
*J1	85	#4	1	1'-5"	80
REINFORCING STEEL				8,134	LBS.
*EPOXY COATED REINFORCING STEEL				6,148	LBS.
CLASS AA CONCRETE				87.5	C. Y.
END APPROACH SLAB					
BAR NO.	SIZE	TYPE	LENGTH	WEIGHT	
*A3	75	#4	STR 28'-10"	1,445	
A4	78	#4	STR 28'-7"	1,489	
*B5	158	#5	STR 24'-1"	3,969	
B6	158	#6	STR 24'-7"	5,834	
*B7	4	#5	STR 9'-8"	40	
B8	4	#6	STR 9'-8"	58	
*J1	77	#4	1	1'-5"	73
REINFORCING STEEL				7,381	LBS.
*EPOXY COATED REINFORCING STEEL				5,527	LBS.
CLASS AA CONCRETE				87.0	C. Y.
BAR TYPE					



ALL BAR DIMENSIONS ARE OUT TO OUT
 ** QUANTITIES FOR BARRIER RAIL ARE NOT INCLUDED. SEE SHEET 2 OF 3.

THE QUANTITY OF #4 J1 BARS ON THE BILL OF MATERIAL IS BASED ON 1'-0" CENTERS. J1 BARS SHALL BE PLACED AT EACH VERTICAL STUD ANCHOR BOLT. IN THE EVENT THAT THE NUMBER OF VERTICAL STUD ANCHORS EXCEEDS THE NUMBER OF J1 BARS SPECIFIED, ADDITIONAL J1 BARS WILL NOT BE REQUIRED.

**PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION**

PROJECT NO. R-2707D
CLEVELAND COUNTY
 STATION: 36+78.38 -RAMP A-

SHEET 1 OF 3

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

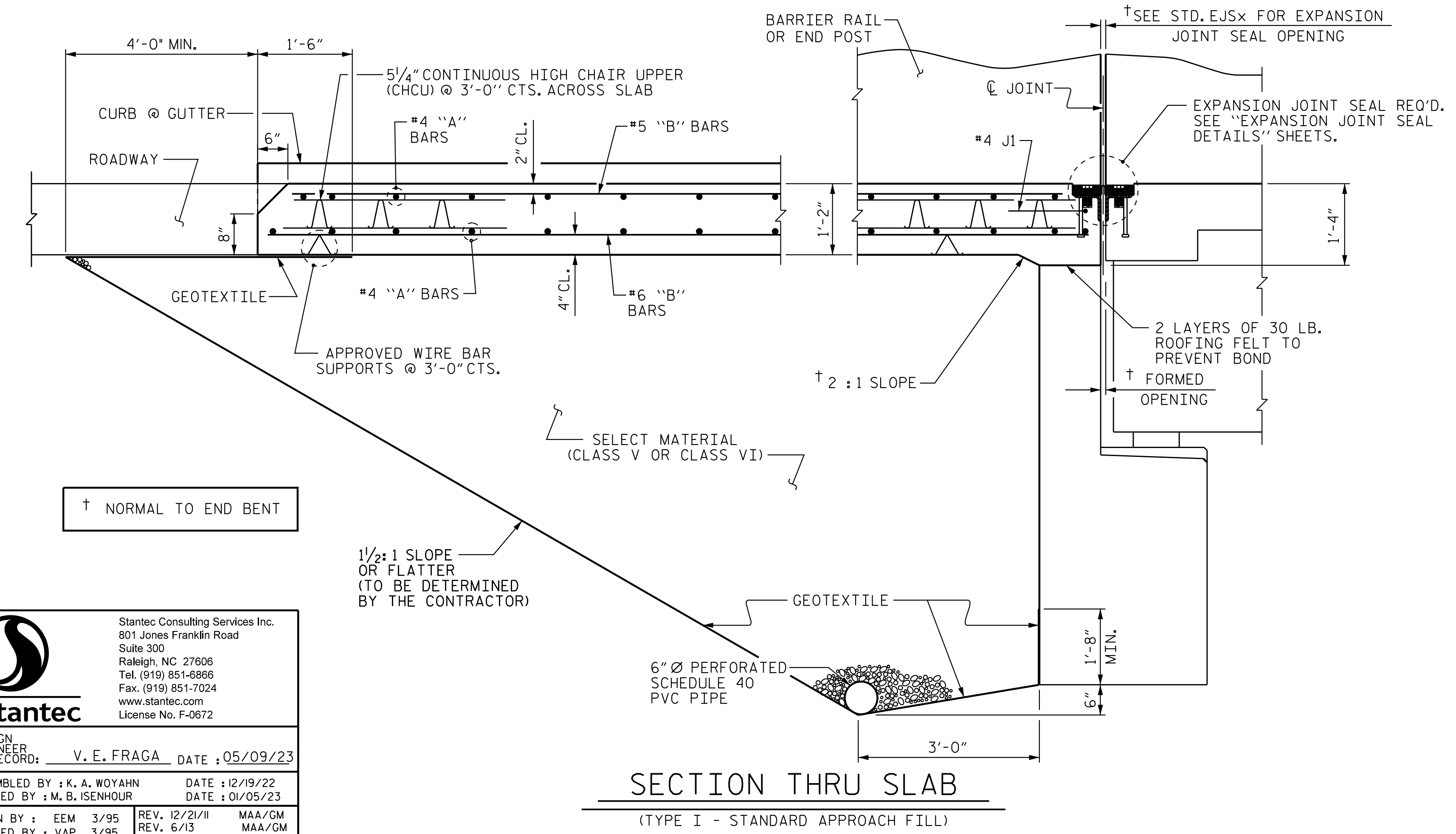
STANDARD
 BRIDGE APPROACH SLAB
 FOR FLEXIBLE PAVEMENT

SEAL 47083
 VICTOR E. FRAGA
 ENGINEER

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S4-41
1			3			TOTAL SHEETS
2			4			43

DocuSigned by:
 Victor E. Fraga
 12/02/2023

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



SECTION THRU SLAB
 (TYPE I - STANDARD APPROACH FILL)

SECTION N-N

SECTION K-K

END OF CURB WITHOUT SHOULDER BERM GUTTER

CURB DETAILS

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DESIGN ENGINEER OF RECORD: V. E. FRAGA DATE: 05/09/23

ASSEMBLED BY: K. A. WOYAHN DATE: 12/19/22
 CHECKED BY: M. B. ISENHOUR DATE: 01/05/23

DRAWN BY: EEM 3/95 REV. 12/21/11 MAA/GM
 CHECKED BY: VAP 3/95 REV. 6/13 MAA/GM
 REV. 12/17 MAA/THC

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