

SECTION A-A

NOTES:

THE TOP SURFACE AREAS OF THE END BENT CAP SHALL BE CURED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS EXCEPT THAT THE MEMBRANE CURING COMPOUND METHOD SHALL NOT BE USED.

THE TOP SURFACE OF THE CAP EXCEPT THE BRIDGE SEAT BUILDUPS SHALL BE SLOPE TRANSVERSELY FROM THE FILL FACE TO THE FRONT FACE AT THE RATE OF 2%.

U1 BARS UNDER BEARING SEATS MAY BE SHIFTED SLIGHTLY TO AVOID ANCHOR BOLTS.

THE CONTRACTOR'S ATTENTION IS CALLED TO THE FACT THAT M1 & M2 BARS ARE DETAILED WITH 3'-0" OF EXTRA LENGTH.

FOR ADDITIONAL NOTES, SEE GENERAL DRAWING SHEET 2 OF 4 OR SHEET 4 OF 4.

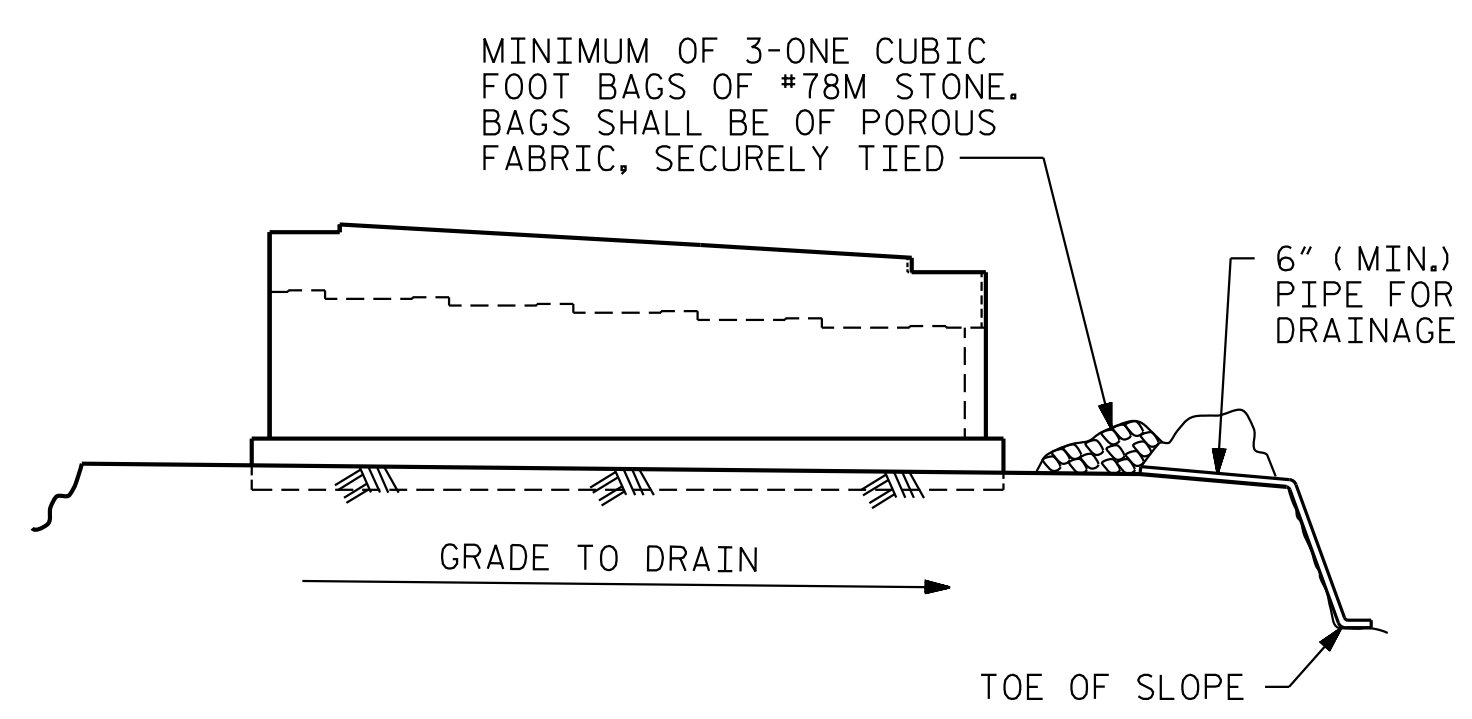
BACKWALL SHALL BE PLACED BEFORE APPLYING EPOXY PROTECTIVE COATING.

** IN LIEU OF SPLICES SHOWN FOR #10 "M" BARS TO #10 "V" BARS BETWEEN FOOTING AND STEM, CONTRACTOR MAY CHOOSE TO USE MECHANICAL COUPLERS TO FACILITATE CONSTRUCTION OF THE FOOTING DURING PHASE 1 OF THE PROJECT.

FOR MASS CONCRETE AT END BENT NO. 2, SEE SPECIAL PROVISIONS.

BAR TYPES		BILL OF MATERIAL				
		END BENT 2				
BAR NO.	SIZE	TYPE	LENGTH	WEIGHT		
B1	152	6	STR	33'-9"	7705	
B2	6	6	STR	46'-7"	420	
B3	6	6	STR	35'-7"	321	
B4	6	6	STR	24'-8"	222	
B5	6	6	STR	13'-10"	125	
B6	6	6	STR	3'-1"	28	
B7	10	6	STR	7'-2"	108	
B8	4	6	STR	7'-7"	46	
B9	4	6	STR	48'-9"	293	
B10	26	4	STR	4'-8"	81	
M1	128	10	1	20'-8"	11383	
M2	96	6	STR	9'-10"	1418	
T1	137	10	2	26'-4"	15524	
T2	137	7	2	25'-2"	7047	
T3	128	6	1	36'-10"	7081	
T4	12	6	STR	23'-6"	424	
T5	24	6	STR	36'-2"	1304	
U1	82	6	3	9'-5"	1160	
U2	31	6	4	13'-4"	621	
U3	26	6	5	11'-7"	452	
U4	86	4	3	3'-8"	211	
U5	248	6	3	9'-9"	3632	
V1	128	10	STR	26'-5"	14550	
V2	96	6	STR	19'-2"	2764	
V3	86	5	STR	10'-9"	964	
TOTAL REINFORCING STEEL				77,882 LBS.		
CLASS A CONCRETE BREAKDOWN						
POUR #1		FOOTING		337.3 C.Y.		
POUR #2		ABUTMENT STEM		232.1 C.Y.		
POUR #3		BACKWALL		19.7 C.Y.		
TOTAL CLASS A CONCRETE				589.1 C.Y.		

ALL BAR DIMENSIONS ARE OUT TO OUT.



BAGGED STONE AND PIPE SHALL BE PLACED IMMEDIATELY AFTER COMPLETION OF END BENT EXCAVATION. PIPE MAY BE EITHER CONCRETE, CORRUGATED STEEL, CORRUGATED ALUMINUM ALLOY, OR CORRUGATED PLASTIC. PERFORATED PIPE WILL NOT BE ALLOWED.

BAGGED STONE SHALL REMAIN IN PLACE UNTIL THE ENGINEER DIRECTS THAT IT BE REMOVED. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF SILT ACCUMULATIONS AT BAGGED STONE WHEN SO DIRECTED BY THE ENGINEER. BAGS SHALL BE REMOVED AND REPLACED WHENEVER THE ENGINEER DETERMINES THAT THEY HAVE DETERIORATED AND LOST THEIR EFFECTIVENESS.

NO SEPARATE PAYMENT WILL BE MADE FOR THIS WORK AND THE ENTIRE COST OF THIS WORK SHALL BE INCLUDED IN THE UNIT CONTRACT PRICE BID FOR THE SEVERAL PAY ITEMS.

TEMPORARY DRAINAGE AT END BENT

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DRAWN BY: D. D. LOWERY DATE: 10/17
 CHECKED BY: A. L. PHILLIPS DATE: 10/17
 DESIGN ENGINEER OF RECORD: S. A. DENNEY DATE: 10/17

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL
 033752
 SETH A. DENNEY
 10/23/2017

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL
 040769
 ANDREW L. PHILLIPS
 10/23/2017

Kimley-Horn
 421 Fayetteville Street, Suite 600
 Raleigh, NC 27601-1772
 Phone (919) 677-2000
 NC LICENSE # F-0102

PROJECT NO. U-5806
CABARRUS COUNTY
 STATION: 15+75.56 -Y1-
27+06.95 -L-

SHEET 5 OF 5

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH					
SUBSTRUCTURE END BENT 2					
REVISIONS					
NO.	BY:	DATE:	NO.	BY:	DATE:
1			3		
2			4		
SHEET NO. S-42					TOTAL SHEETS 50

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED