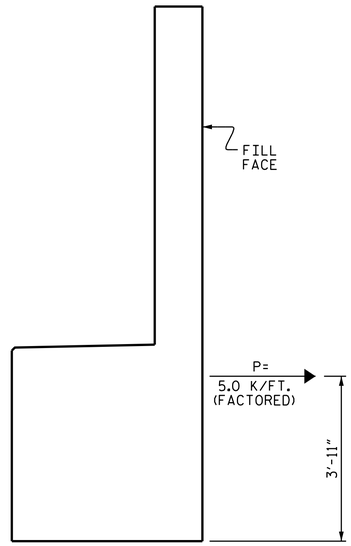
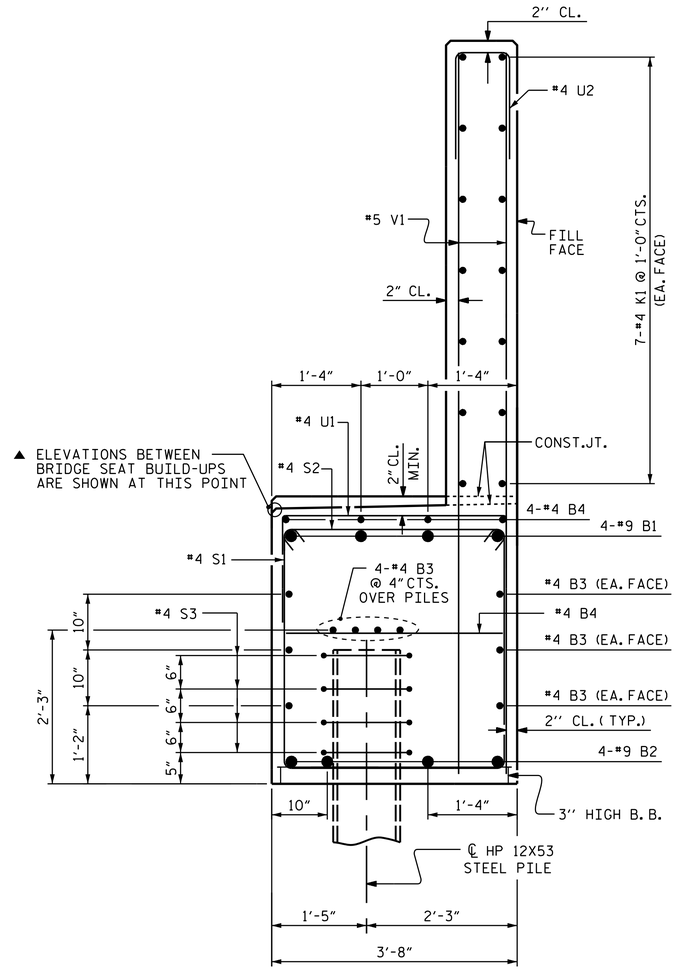
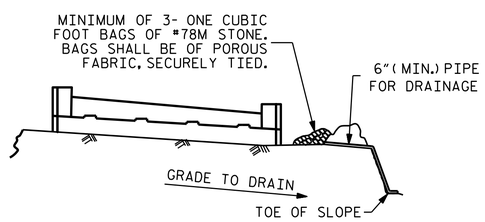


TIE BACK DETAILS

(DETAIL SHOWING TIE BACK RESTRAINT FOR END BENT 2)



SECTION A-A



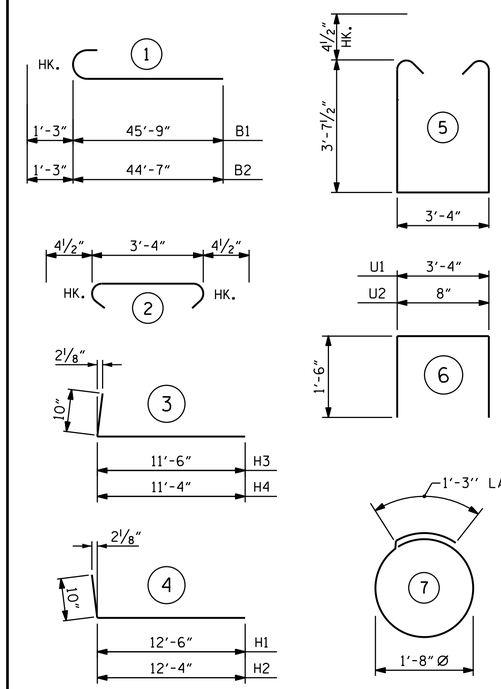
BAGGED STONE AND PIPE SHALL BE PLACED IMMEDIATELY AFTER COMPLETION OF END BENT EXCAVATION. PIPE MAY BE EITHER CONCRETE, CORRUGATED STEEL, CORRUGATED ALUMINUM ALLOY, OR CORRUGATED PLASTIC. PERFORATED PIPE WILL NOT BE ALLOWED.

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

BAR TYPES



ALL BAR DIMENSIONS ARE OUT TO OUT.

BILL OF MATERIAL

END BENT 2

BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
B1	8	#9	1	47'-0"	1278
B2	8	#9	1	45'-10"	1247
B3	30	#4	STR	29'-3"	586
B4	53	#4	STR	3'-4"	118
H1	24	#5	4	13'-4"	334
H2	24	#5	4	13'-2"	330
H3	23	#5	3	12'-4"	296
H4	23	#5	3	12'-2"	292
K1	42	#4	STR	29'-3"	821
K2	8	#4	STR	2'-8"	14
S1	101	#4	5	11'-4"	765
S2	101	#4	2	4'-1"	275
S3	40	#4	7	6'-6"	174
U1	24	#4	6	6'-4"	102
U2	78	#4	6	3'-8"	191
V1	156	#5	STR	9'-9"	1586
V2	32	#5	STR	11'-4"	378
V3	30	#5	STR	11'-0"	344

REINFORCING STEEL LBS. 9,131

CLASS A CONCRETE BREAKDOWN

POUR #1 CAP & LOWER PART OF WINGS C.Y. 49.6

POUR #2 UPPER WINGS & BACKWALL C.Y. 25.4

CLASS A CONCRETE TOTAL C.Y. 75.0

HP 12X53 STEEL PILES NO. 10 LIN. FT. 795

STEEL PILE POINTS EA. 10

PROJECT NO. U-2579B

FORSYTH COUNTY

STATION: 584+36.24 -L-

SHEET 3 OF 3

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

SUBSTRUCTURE

END BENT 2

(LEFT LANE)

NORTH CAROLINA PROFESSIONAL SEAL 23371 ENGINEER VIPUL A. PATEL

DocuSigned by: Vipul A. Patel 1C157DE15D464AA... 7/29/2014

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-174
1			3			TOTAL SHEETS
2			4			707

STR. #5

DRAWN BY :	T. H. CARROLL	DATE :	2/4/14
CHECKED BY :	R. P. PATEL	DATE :	2/13/14
DESIGN ENGINEER OF RECORD :	H. A. LOCKLEAR	DATE :	6/4/14

28-JUL-2014 16:31
R:\Structures\Plans\Str05\U2579B_SD_E2_05.dgn
lsutton