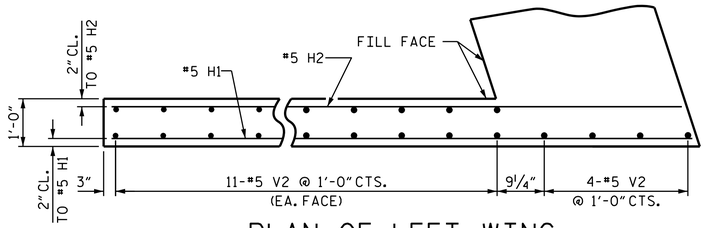
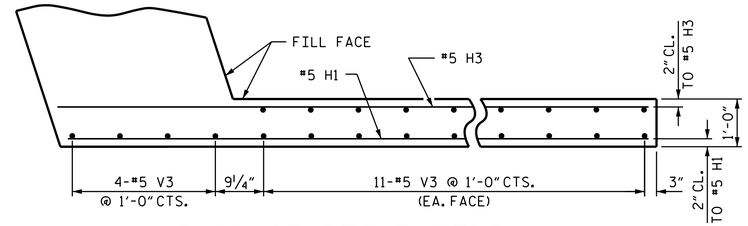
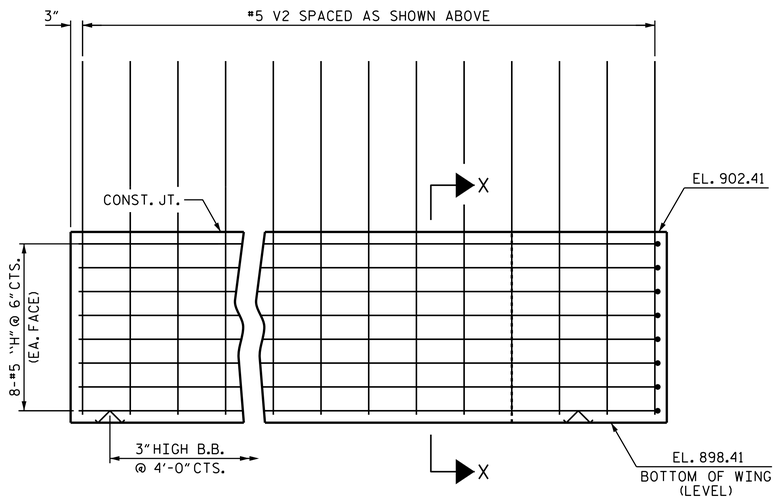


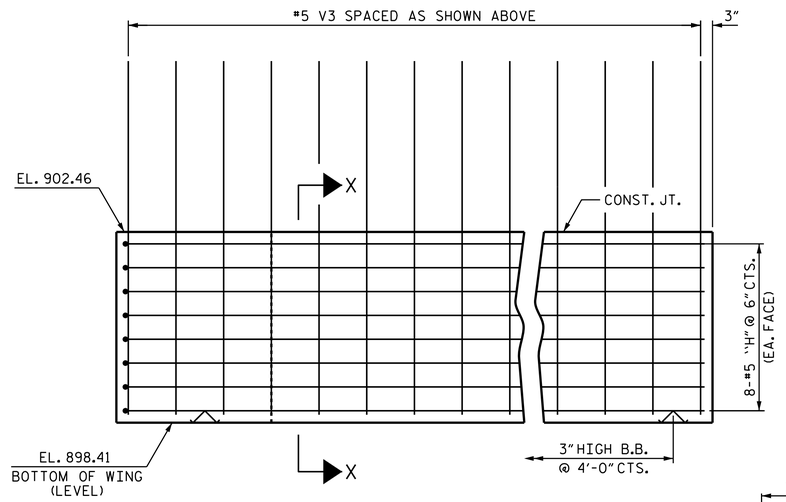
PLAN OF LEFT WING



PLAN OF RIGHT WING

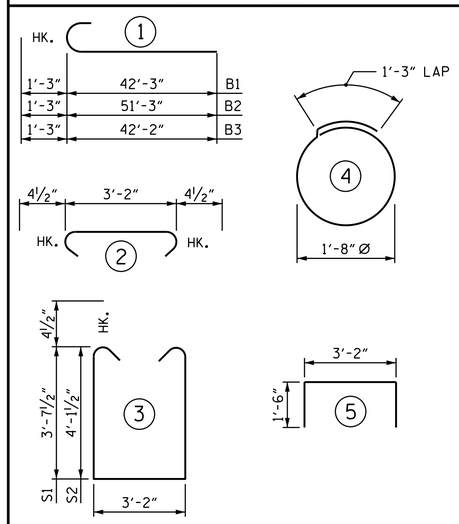


ELEVATION OF LEFT WING



ELEVATION OF RIGHT WING

BAR TYPES

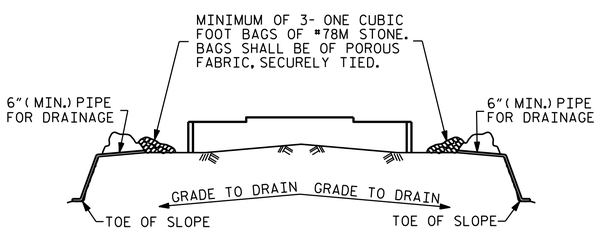


ALL BAR DIMENSIONS ARE OUT TO OUT.

BILL OF MATERIAL
END BENT 2

BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
B1	8	#9	1	43'-6"	1183
B2	4	#9	1	52'-6"	714
B3	4	#9	1	43'-5"	590
B4	4	#9	STR	42'-3"	575
B5	4	#9	STR	38'-9"	527
B6	50	#4	STR	24'-10"	829
B7	2	#4	STR	26'-2"	35
B8	8	#4	STR	18'-4"	98
B9	4	#4	STR	20'-6"	55
B10	32	#4	STR	3'-2"	68
H1	16	#5	STR	13'-11"	232
H2	8	#5	STR	13'-9"	115
H3	8	#5	STR	14'-0"	117
S1	101	#4	3	11'-2"	753
S2	53	#4	3	12'-2"	431
S3	154	#4	2	3'-11"	403
S4	80	#4	4	6'-6"	347
U1	42	#4	5	6'-2"	173
V1	188	#4	STR	6'-9"	848
V2	26	#5	STR	10'-10"	294
V3	26	#5	STR	10'-11"	296

REINFORCING STEEL	LBS.	8,683
CLASS A CONCRETE		
POUR #1	C.Y.	36.8
POUR #2	C.Y.	35.2
TOTAL	C.Y.	72.0
HP 12X53 STEEL PILES NO. 20	LIN. FT.	330
STEEL PILE POINTS	EA.	20

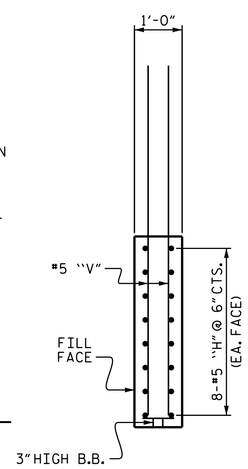


BAGGED STONE AND PIPE SHALL BE PLACED IMMEDIATELY AFTER COMPLETION OF END BENT EXCAVATION. PIPE MAY BE EITHER CONCRETE, CORRUGATED STEEL, CORRUGATED ALUMINUM ALLOY, OR CORRUGATED PLASTIC. PERFORATED PIPE WILL NOT BE ALLOWED.

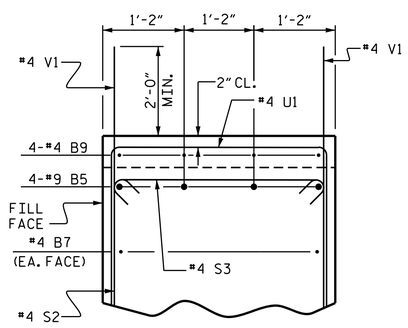
BAGGED STONE SHALL REMAIN IN PLACE UNTIL THE ENGINEER DIRECTS THAT IT BE REMOVED. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF SILT ACCUMULATIONS AT BAGGED STONE WHEN SO DIRECTED BY THE ENGINEER. BAGS SHALL BE REMOVED AND REPLACED WHENEVER THE ENGINEER DETERMINES THAT THEY HAVE DETERIORATED AND LOST THEIR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

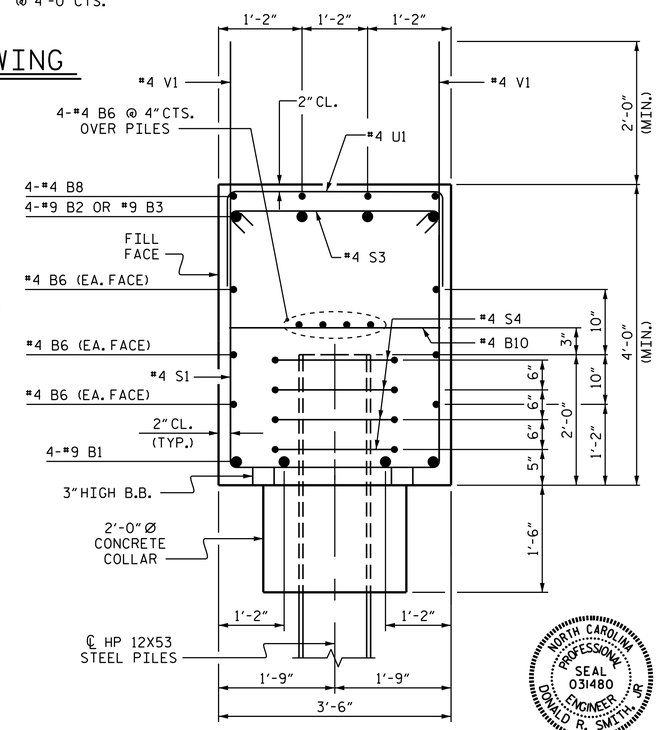
TEMPORARY DRAINAGE AT END BENT



SECTION X-X



SECTION B-B



SECTION A-A

NORTH CAROLINA PROFESSIONAL SEAL 031480 ENGINEER DONALD R. SMITH, JR.

DocuSigned by: Donald R. Smith Jr. 43B435A14F38465... 7/30/2014

PROJECT NO. U-2579B
FORSYTH COUNTY
STATION: 516+31.30 -L-

SHEET 3 OF 3

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

SUBSTRUCTURE
INTEGRAL END BENT 2

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-32
1			3			TOTAL SHEETS
2			4			707

STR. #1

DRAWN BY : J.D. HAWK	DATE : 1/15/14
CHECKED BY : P.S. ADKINS	DATE : 4/8/14
DESIGN ENGINEER OF RECORD: H.T. DIEU	DATE : 6/9/14

29-JUL-2014 14:36
R:\Structures\Plans\Str01\U2579B_SD_E*_01.dgn
lsutton