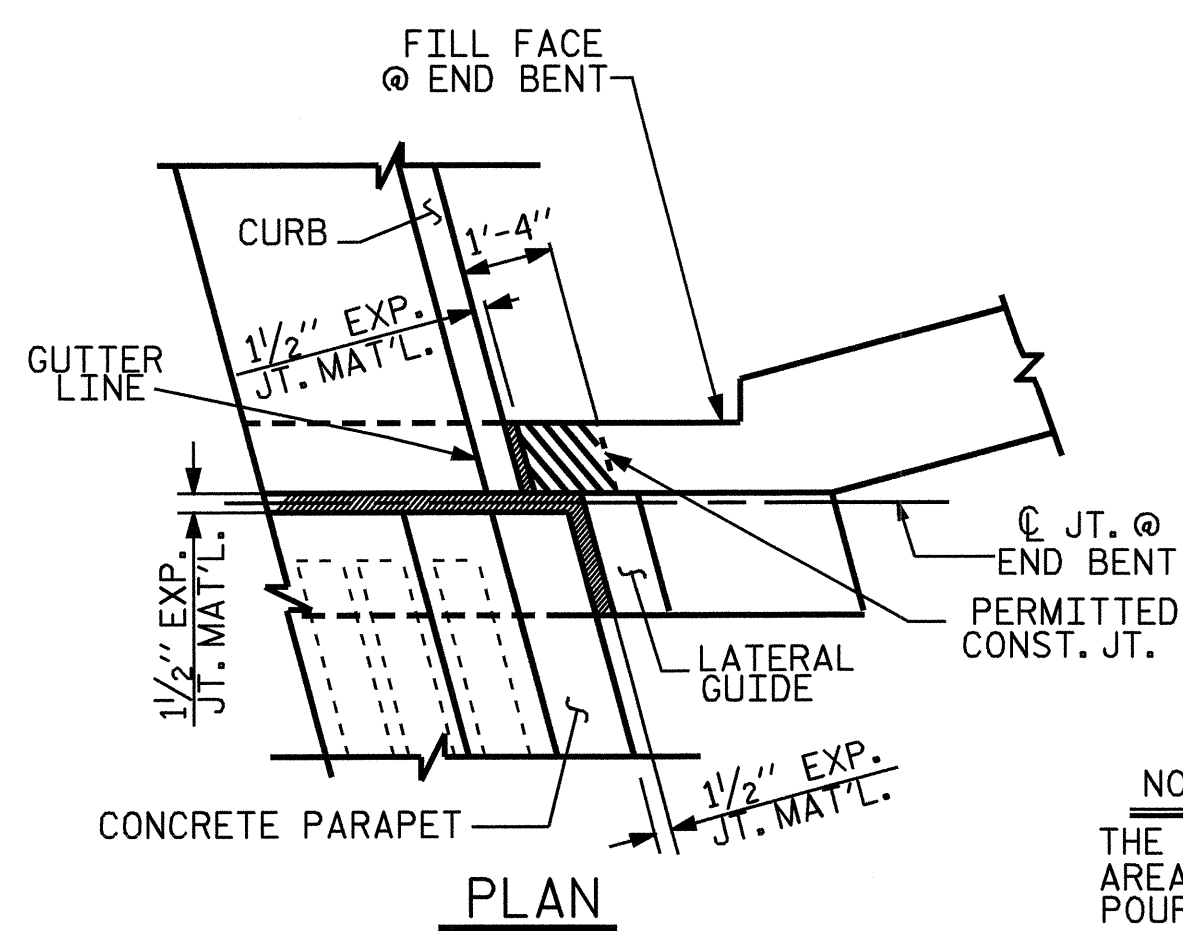
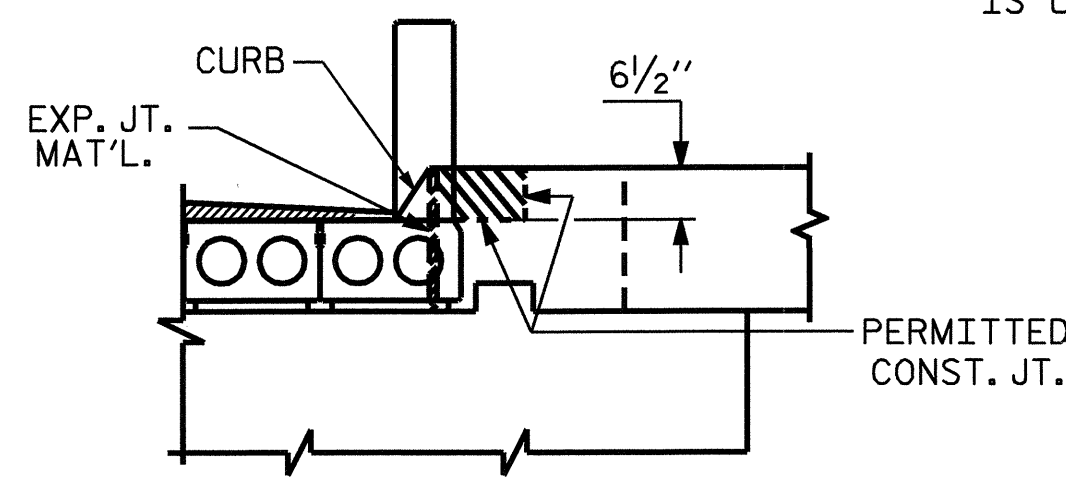


END ELEVATION



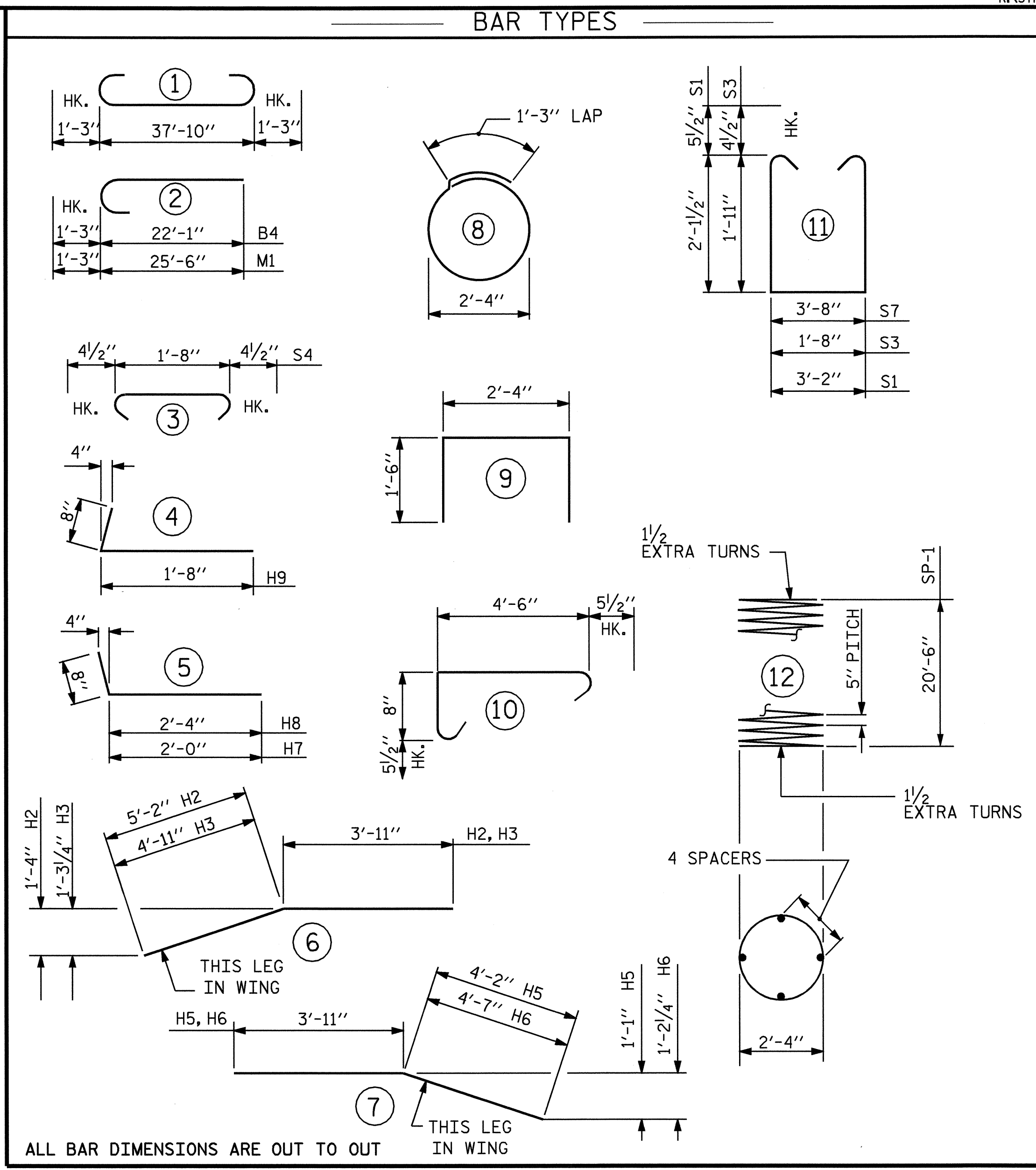
PLAN



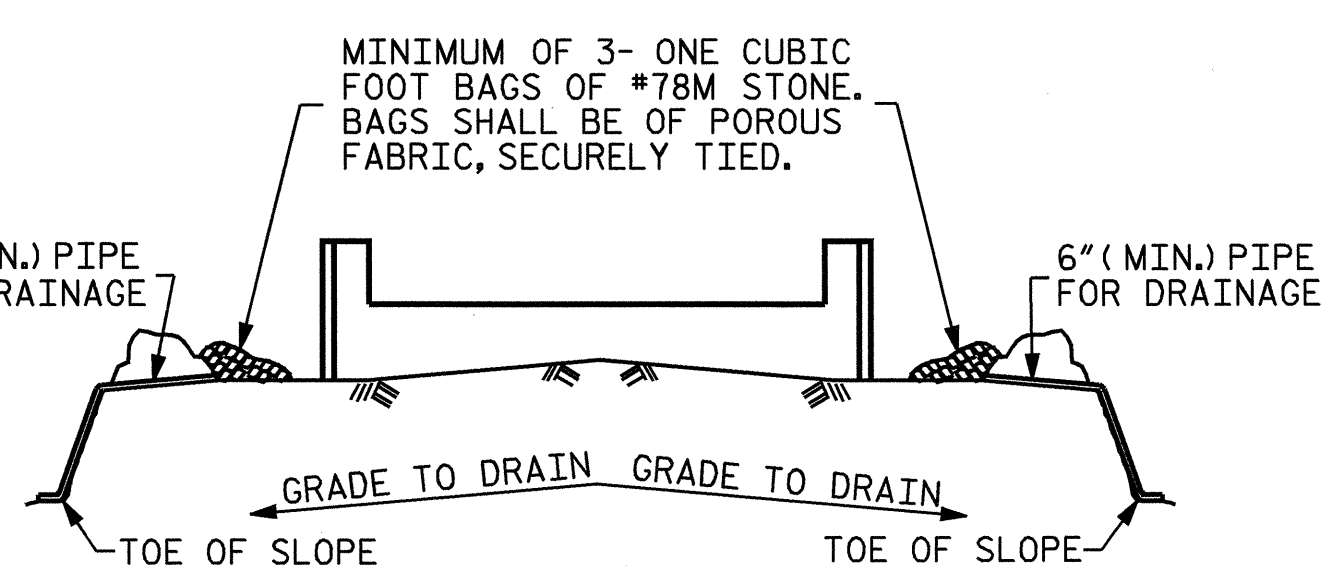
ELEVATION

BLOCKOUT IN WING WALL

NOTE
THE CONCRETE IN THE SHADED AREA OF THE WING SHALL BE POURED AFTER THE CONCRETE PARAPET IS CAST IF SLIP FORMING IS USED.



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

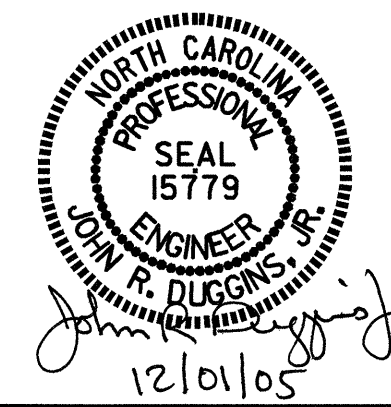
BILL OF MATERIAL

END BENT #2					
BAR NO.	SIZE	TYPE	LENGTH	WEIGHT	
B1	5	9	1	40'-4"	686
B2	8	4	STR	20'-2"	108
B3	3	5	STR	38'-5"	120
B4	10	9	2	23'-4"	793
B5	6	4	STR	1'-8"	7
D1	18	6	STR	1'-6"	41
H1	5	4	STR	6'-0"	20
H2	2	4	6	9'-1"	12
H3	4	4	6	8'-10"	18
H4	4	4	STR	4'-9"	16
H5	2	4	7	8'-1"	11
H6	2	4	7	8'-6"	17
H7	3	4	5	3'-0"	6
H8	3	4	5	3'-0"	6
H9	3	4	4	2'-4"	5
M1	48	9	2	26'-9"	4366
S1	28	5	11	8'-4"	243
S2	39	5	10	6'-1"	247
S3	11	4	11	6'-3"	46
S4	11	4	3	2'-5"	18
S5	4	4	9	5'-4"	14
S6	20	5	8	8'-7"	179
S7	2	5	11	8'-10"	18
V1	11	4	STR	4'-6"	33
V2	12	4	STR	4'-5"	35
REINFORCING STEEL				LBS.	7064
SPIRAL REINFORCING STEEL					
SP-1	4	**	12	380'-6"	1587
TOTAL SPIRAL REINF. STEEL				LBS.	1587

CLASS "A" CONCRETE BREAKDOWN		
POUR 2 (CAP)		15.0 C.Y.
POUR 3 (WINGS)		2.6 C.Y.
POUR 4 (LATERAL GUIDES)		0.1 C.Y.
CLASS "A" CONCRETE TOTAL 17.7 C.Y.		
DRILLED PIERS		
CLASS "A" CONCRETE BREAKDOWN		
POUR 1 DRILLED PIERS		22.0 C.Y.
3'-0" Ø DRILLED PIER IN SOIL		
TOTAL LENGTH	62.00	LIN. FT.
3'-0" Ø DRILLED PIER NOT IN SOIL		
TOTAL LENGTH	22.00	LIN. FT.
CROSSHOLE SONIC LOGGING 1 EA.		
SID INSPECTION 1 EA.		
CSL TUBES 376.0 LIN. FT.		
12" STEEL SHEET PILES 722 SQ. FT.		

** THE SP - SPIRAL REINFORCING STEEL SHALL BE W31 OR D-31 COLD DRAWN WIRE OR #5 PLAIN OR DEFORMED BAR.

DRAWN BY : M. POOLE DATE : 02/05
CHECKED BY : J. R. DUGGINS DATE : 03/05



PROJECT NO. B-3663
HENDERSON COUNTY
STATION: 12+96.30 -L-

SHEET 4 OF 4

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH					
SUBSTRUCTURE END BENT No. 2					
REVISIONS					SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:
1			3		
2			4		
					TOTAL SHEETS 22