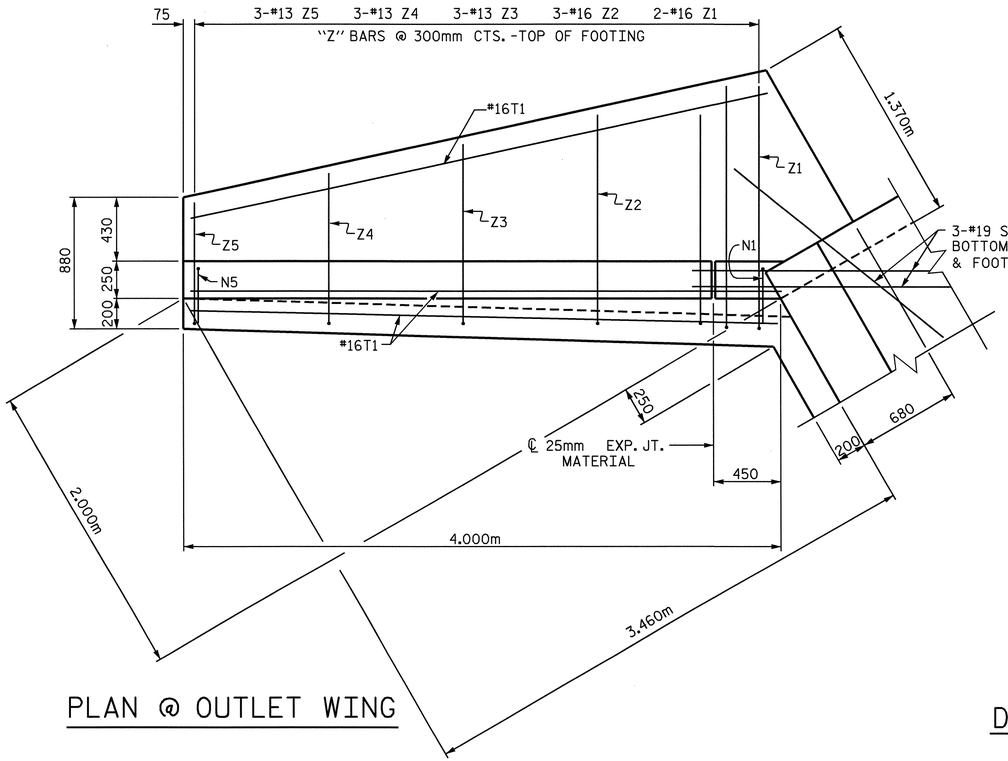
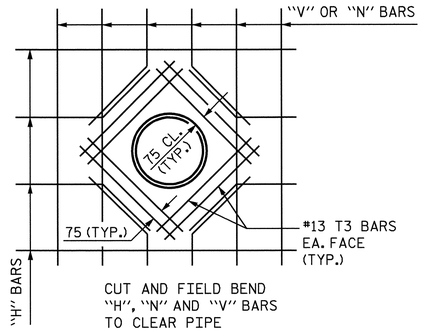


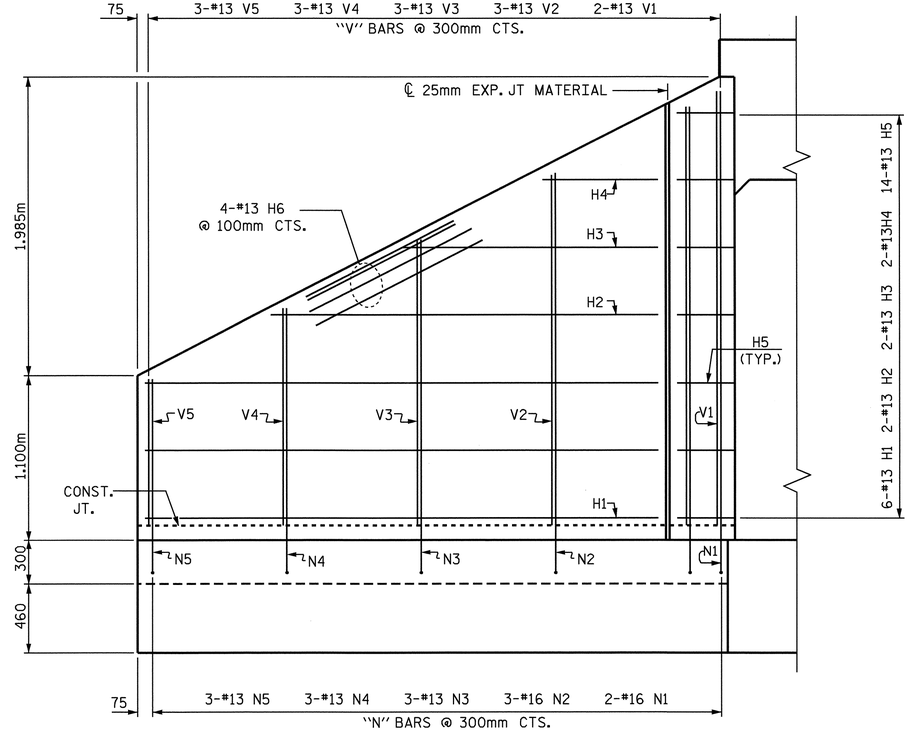
PLAN @ OUTLET WING



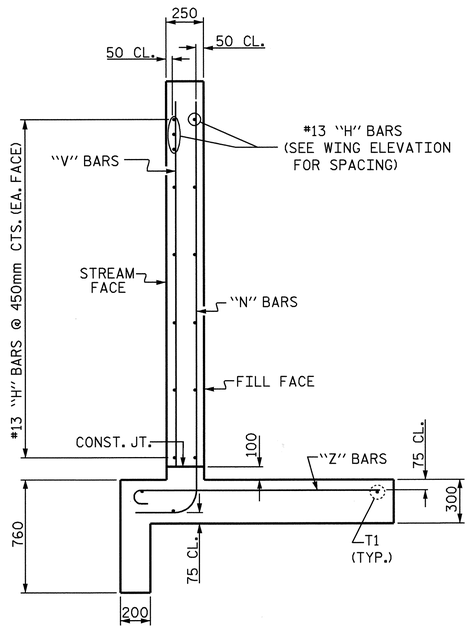
CUT AND FIELD BEND
"H", "N" AND "V" BARS
TO CLEAR PIPE

DETAIL OF 450mm Ø CS PIPE THRU WING

(LOCATION OF 450mm Ø CS PIPE SHALL BE DETERMINED BY THE ENGINEER)

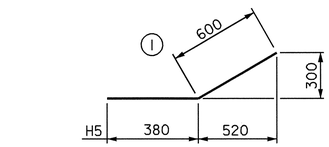


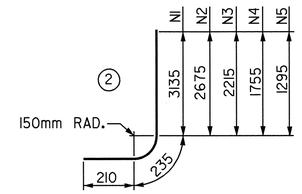
ELEVATION @ OUTLET WING

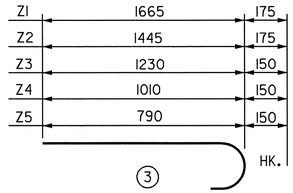


TYPICAL OUTLET WING SECTION

BAR TYPES







ALL BAR DIMENSIONS ARE OUT TO OUT.

BILL OF MATERIAL

BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
H1	12	#13	STR	3440	41
H2	4	#13	STR	2880	10
H3	4	#13	STR	1700	7
H4	4	#13	STR	820	3
H5	28	#13	1	980	27
H6	8	#13	STR	3760	35
N1	4	#16	2	3580	27
N2	6	#16	2	3120	29
N3	6	#13	2	2660	16
N4	6	#13	2	2200	13
N5	6	#13	2	1740	10
S1	6	#19	STR	1800	24
T1	6	#16	STR	4000	37
T3	16	#13	STR	900	14
V1	4	#13	STR	2800	11
V2	6	#13	STR	2660	16
V3	6	#13	STR	1900	11
V4	6	#13	STR	1440	7
V5	6	#13	STR	980	6
Z1	4	#16	3	1840	11
Z2	6	#16	3	1620	15
Z3	6	#13	3	1380	8
Z4	6	#13	3	1160	7
Z5	6	#13	3	940	6

REINFORCING STEEL

FOR 2 WINGS 391 kg

CLASS A CONCRETE

2 WINGS	7.7 C.M.
1 HEADWALL	0.6 C.M.
1 END CURTAIN WALL	0.7 C.M.
TOTAL	9.0 C.M.

DRAWN BY : V. X. NGUYEN DATE : 10-20-97
CHECKED BY : B.N. BARODAWALA DATE : 9704

20-DEC-2004 15:48
W:\SquadL\r0977a\str6\scallaway\R0977A_sd_CU_06.dgn
lsutton

PROJECT NO. R-0977A
CHEROKEE COUNTY
STATION: 35+18.000-LREV-

SHEET 14 OF 14

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

STANDARD WINGS FOR CONCRETE BOX CULVERT H=2.400m SLOPE=2 : 1 90° SKEW

NORTH CAROLINA PROFESSIONAL SEAL 21638 ENGINEER LAURA E. SUTTON
12/22/04

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	C-14
1			3			TOTAL SHEETS
2			4			14

STR. #6

STD. NO. CW9024