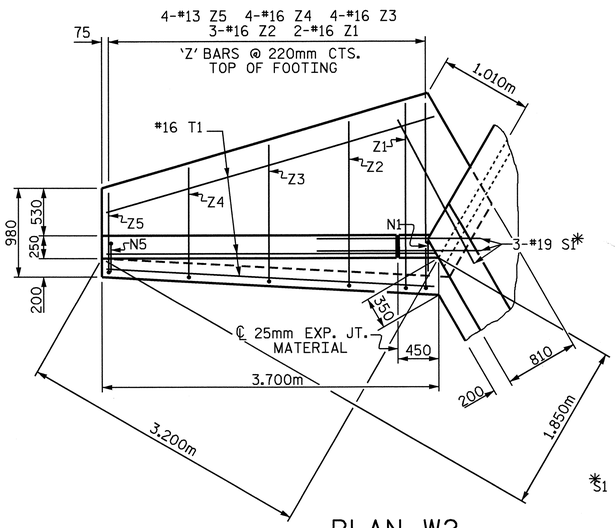
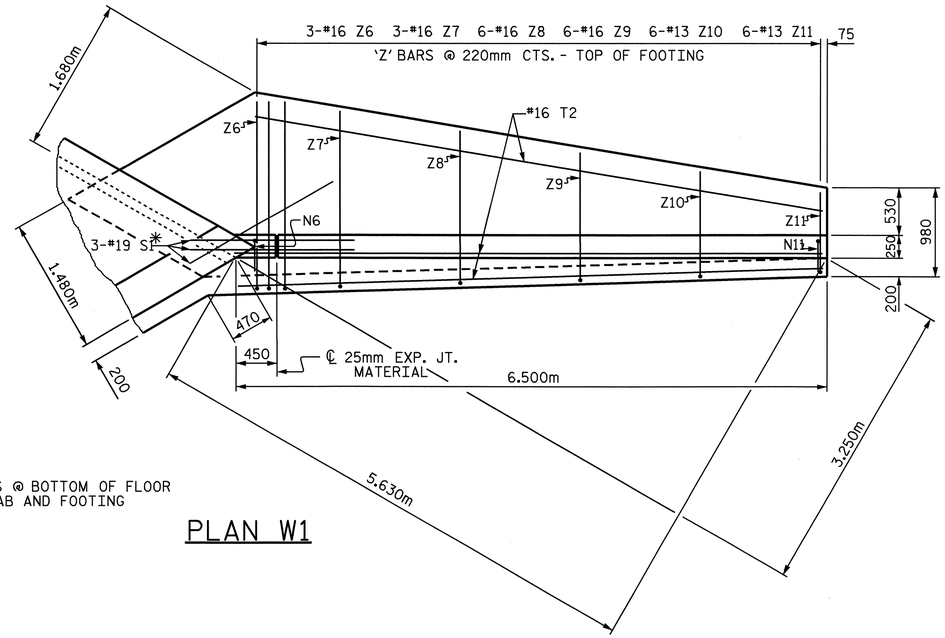
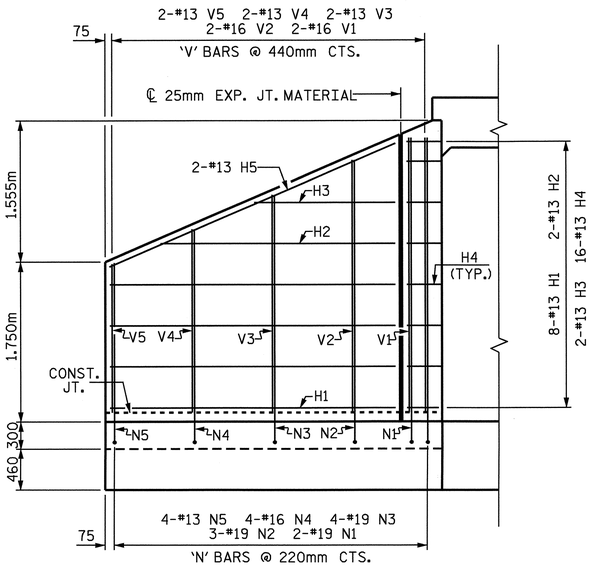


PLAN W2

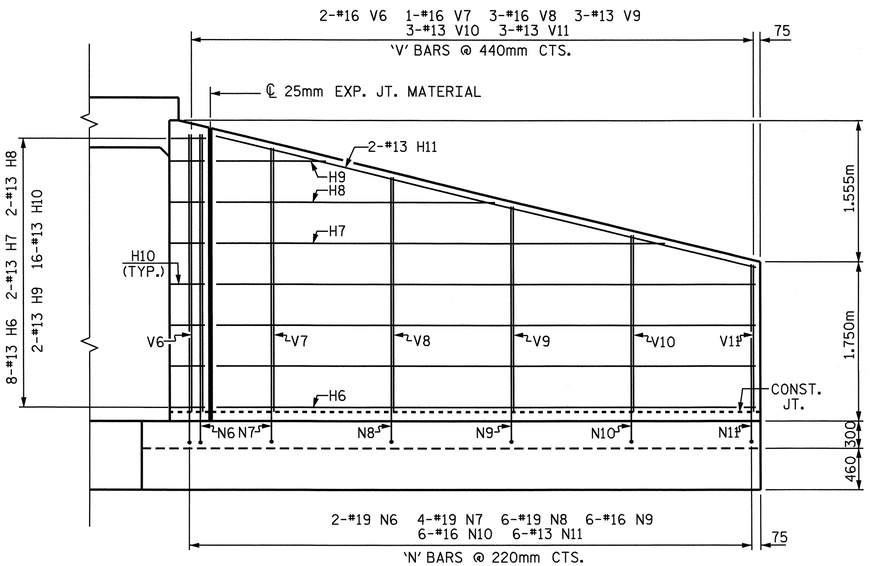


*S1 BARS @ BOTTOM OF FLOOR SLAB AND FOOTING

PLAN W1



ELEVATION W2



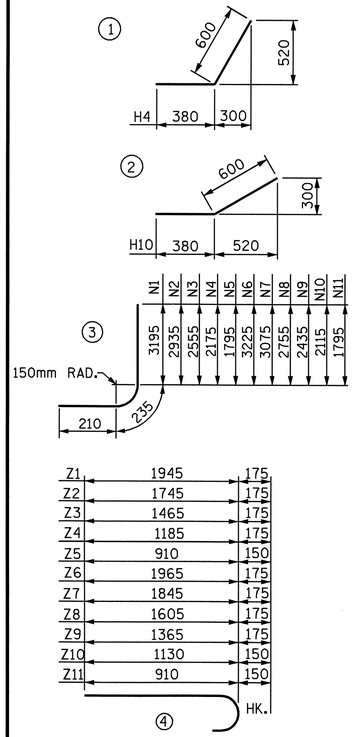
ELEVATION W1

FOR WING ORIENTATION, SEE BARREL STANDARD SHEET.

ASSEMBLED BY : M.E. POOLE	DATE : 06/03
CHECKED BY : J.L. LAMBERT	DATE : 06/03
DRAWN BY : JLR 6/97	
CHECKED BY : VAP 5/98	

BAR TYPES

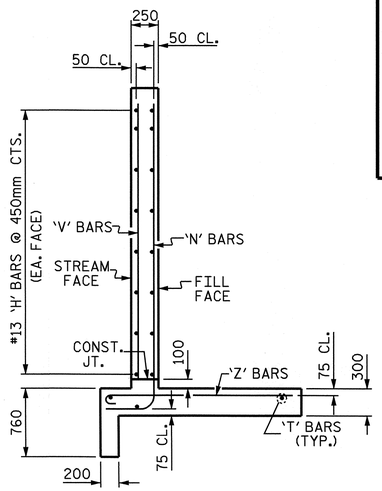
ALL BAR DIMENSIONS ARE OUT TO OUT.



BILL OF MATERIAL

BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
H1	8	13	STR	3140	25
H2	2	13	STR	2600	5
H3	2	13	STR	1540	3
H4	16	13	1	980	16
H5	2	13	STR	3400	7
H6	8	13	STR	5940	47
H7	2	13	STR	5040	10
H8	2	13	STR	3200	6
H9	2	13	STR	1360	3
H10	16	13	2	980	16
H11	2	13	STR	6100	12
N1	2	19	3	3640	16
N2	3	19	3	3380	23
N3	4	19	3	3000	27
N4	4	16	3	2620	16
N5	4	13	3	2240	9
N6	2	19	3	3680	16
N7	4	19	3	3520	31
N8	6	19	3	3200	43
N9	6	16	3	2880	27
N10	6	16	3	2560	24
N11	6	13	3	2240	13
S1	6	19	STR	1800	24
T1	3	16	STR	3700	17
T2	3	16	STR	6500	30
V1	2	16	STR	3060	9
V2	2	16	STR	2800	9
V3	2	13	STR	2420	5
V4	2	13	STR	2040	4
V5	2	13	STR	1620	3
V6	2	16	STR	3060	9
V7	1	16	STR	2940	5
V8	3	16	STR	2620	12
V9	3	13	STR	2300	7
V10	3	13	STR	1980	6
V11	3	13	STR	1620	5
Z1	2	16	4	2120	7
Z2	3	16	4	1920	9
Z3	4	16	4	1640	10
Z4	4	16	4	1360	8
Z5	4	13	4	1060	4
Z6	3	16	4	2140	10
Z7	3	16	4	2020	9
Z8	6	16	4	1780	17
Z9	6	16	4	1540	14
Z10	6	13	4	1280	8
Z11	6	13	4	1060	6

REINFORCING STEEL FOR 2 WING WALLS	642	kg
CLASS A CONCRETE		
2 WINGS	12.8	m^3
1 HEADWALLS	0.4	m^3
1 END CURTAIN WALLS	0.3	m^3
2 EDGE BEAMS	0.5	m^3
TOTAL	14.0	m^3



TYPICAL WING SECTION

PROJECT NO. R-2813C
BUNCOMBE COUNTY
STATION: 58+91.630 -L-

SHEET 4 OF 4

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

WINGS FOR CONCRETE BOX CULVERT H=3.050m SLOPE=2:1 120° SKEW

NORTH CAROLINA PROFESSIONAL SEAL 15779 ENGINEER JOHN R. DUGGINS, JR.
4/8/04

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

STD. NO. CW6030