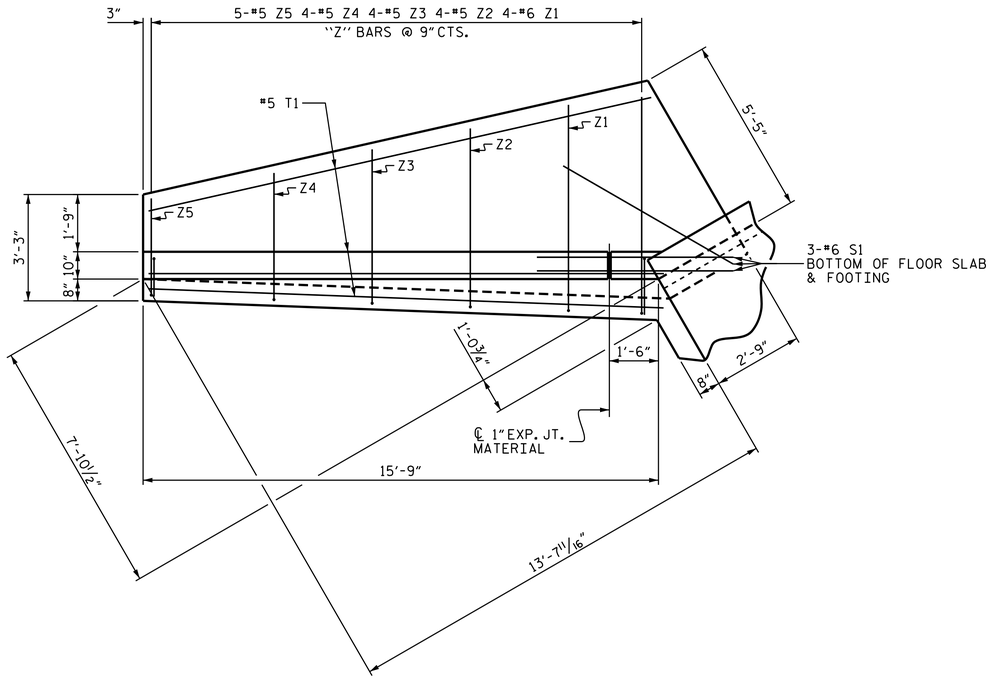
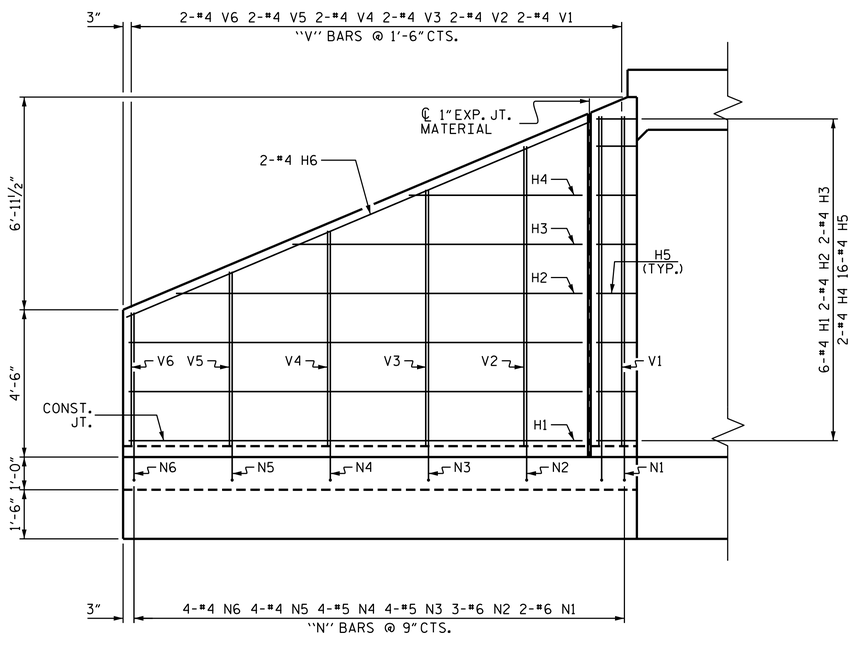
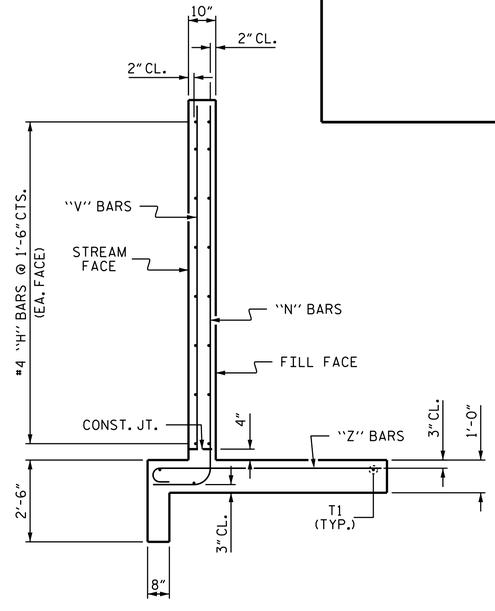


PLAN



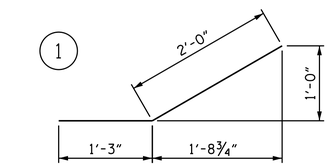
ELEVATION

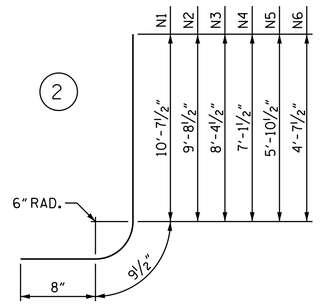


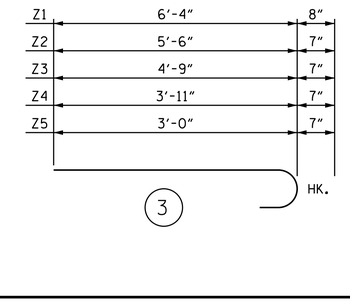
TYPICAL WING SECTION

BAR TYPES

ALL BAR DIMENSIONS ARE OUT TO OUT.







BILL OF MATERIAL

BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
H1	24	#4	STR	13'-10"	222
H2	8	#4	STR	12'-5"	66
H3	8	#4	STR	8'-10"	47
H4	8	#4	STR	5'-4"	29
H5	64	#4	1	3'-3"	139
H6	8	#4	STR	15'-5"	82
N1	8	#6	2	12'-1"	146
N2	12	#6	2	11'-2"	201
N3	16	#5	2	9'-10"	164
N4	16	#5	2	8'-7"	143
N5	16	#4	2	7'-4"	78
N6	16	#4	2	6'-1"	65
S1	12	#6	STR	6'-0"	108
T1	12	#5	STR	15'-9"	197
V1	8	#4	STR	10'-1"	54
V2	8	#4	STR	9'-2"	49
V3	8	#4	STR	7'-10"	42
V4	8	#4	STR	6'-7"	35
V5	8	#4	STR	5'-4"	29
V6	8	#4	STR	4'-1"	22
Z1	16	#6	3	7'-0"	168
Z2	16	#5	3	6'-1"	102
Z3	16	#5	3	5'-4"	89
Z4	16	#5	3	4'-6"	75
Z5	20	#5	3	3'-7"	75

REINFORCING STEEL
FOR 4 WINGS 2427 LBS

CLASS A CONCRETE
4 WINGS 31.2 CY
2 HEADWALLS 1.4 CY
END CURTAIN WALLS 1.5 CY
TOTAL 34.1 CY

PROJECT NO. I-5000
GASTON COUNTY
STATION: 31+64.31 -RPD

SHEET 4 OF 4

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

STANDARD WINGS FOR CONCRETE BOX CULVERT

H = 10'-0" SLOPE = 2:1
90°-00'-00" SKEW

NORTH CAROLINA PROFESSIONAL SEAL 17230 ENGINEER WAEL S. ARAFAT

DocuSigned by: Wael Arafat 4139C12A32AB406...
1/17/2017

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

REVISIONS					
NO.	BY:	DATE:	NO.	BY:	DATE:
1			3		
2			4		

SHEET NO. C-11
TOTAL SHEETS 26

ASSEMBLED BY : H. T. BARBOUR DATE : 8-15-16
CHECKED BY : H. B. DESAI DATE : 10-3-16
DRAWN BY : CCJ 10/99
CHECKED BY : RWW 03/00

E:\TIPProjects-I\I5000\Structures\Final Plans\Culvert #3_PED\I5000_SMU_CU_3.dgn
13-JAN-2017 14:55
tbarbour

CULVERT #3

STD. NO. CW9010