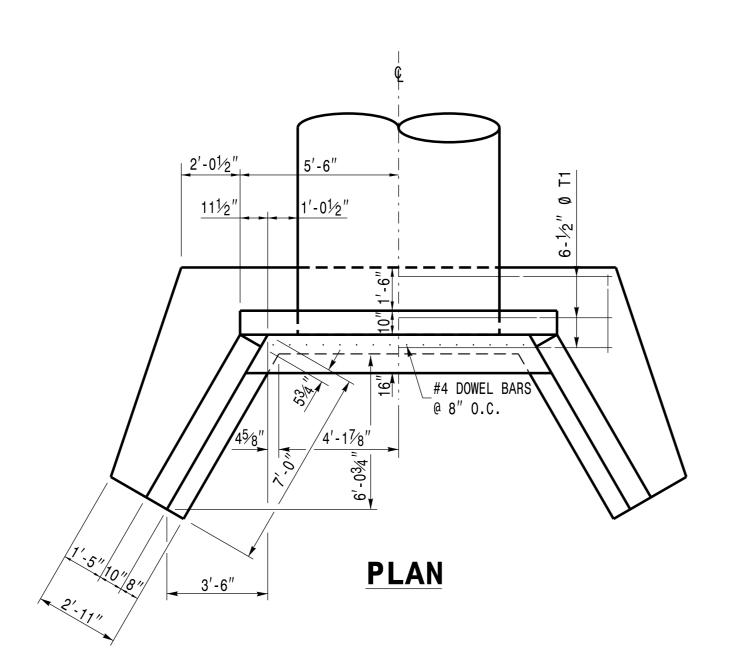
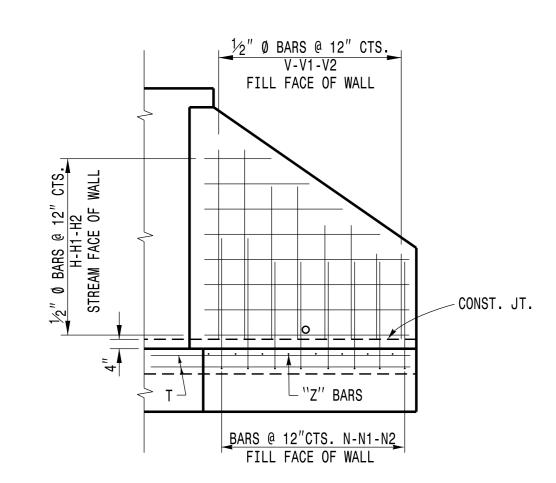
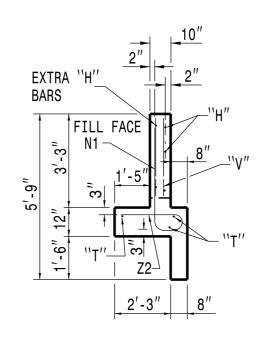


END ELEVATION

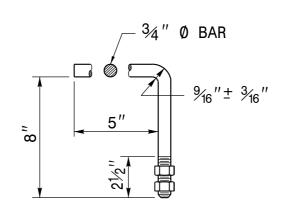




ELEVATION OF WING SHOWING REINFORCEMENT

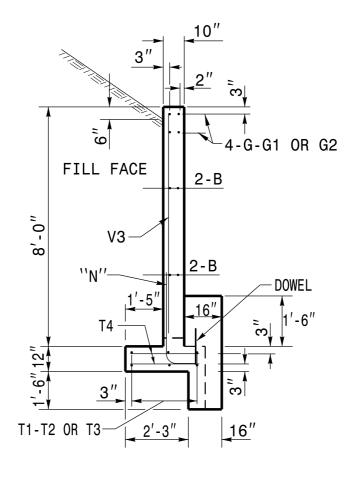


END OF WING

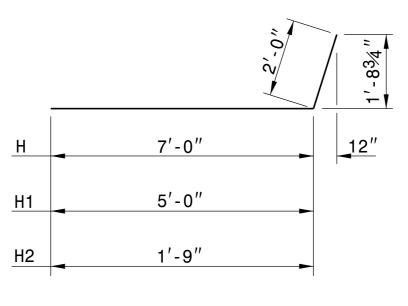


HOOK BOLT

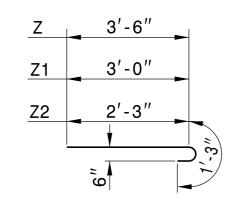
HOOK BOLTS (ANCHORS SHALL BE CONSTRUCTED AT 2'-0" CTS. ALONG THE CIRCUMFERENCE OF THE 7'-0" CSPA. THE HOOK BOLTS SHALL BE EMBEDDED IN THE CONCRETE ENDWALL 8" IN DEPTH. THE GALVANIZED34" DIA. HOOK BOLTS MUST MEET ASTM A-307 OR ASTM A-836. BOTH BOLTS AND NUTS MUST BE IN ACCORDANCE WITH ASTM A-153 FOR GALVANIZING.



SECTION A-A



BARS H-H1-H2



BARS N-N1

BARS Z-Z1-Z2

NOTES:

ALL CONCRETE TO BE CLASS "A".

ALL REINFORCING STEEL SHALL BE ASTMA615-GRADE 60.

ALL REINFORCING STEEL SHALL BE DEFORMED BARS. WHERE SPLICING OF REINFORCMENT IS NECESSARY, BARS ARE TO BE LAPPED 45 DIAMETERS. ALL DIMENSIONS RELATIVE TO REINFORCEMENT ARE TO CENTERS OF BARS.

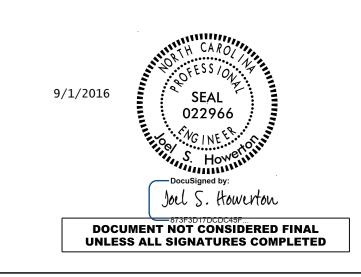
THE FOOTING, CURTAIN WALL AND 4" OF WALL ARE TO BE POURED IN ONE OPERATION ALLOWING NO TIME FOR INITIAL SET TO TAKE PLACE BETWEEN THEM. THE REMAINING WALL SHALL THEN BE POURED IN ONE OPERATION.

ALL EXPOSED CORNERS ARE TO BE CHAMFERED 1".

3" DIAMETER DRAINS SHALL BE PLACED IN WALL AS SHOWN AND BE 6" ABOVE NORMAL FLOW LINE.

ALL MATERIAL AND WORKMANSHIP AS PER N.C.DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS.

BIL	L OF	MAT	ERI A	AL FOI	R ON	VE E	NDW.	ALL
REINFORCING STEEL			1 PIPE					
BAR	SIZE	LENGTH	NO.	WEIGHT				
В	#4	6'-0"	8	32	-	-	-	-
G	#5	10'-9"	4	45	-	-	-	-
		01 01	1.0					
Н	#4	9'-0"	10	60	-	-	-	-
H1	#4	7'-0"	6	28	-	-	-	-
H2	#4	3'-9"	4	10	-	-	-	-
		-1 -11						
N	#5	4'-6"	10	47	-	-	-	-
N1	#4	4'-1"	10	27	-	-	-	-
		- 1 - 11	_					
T	#4	6'-6"	6	26	-	-	-	-
T1	#4	15'-0"	6	60	-	-	-	-
		-1 -11	_	_				
T4	#4	2'-9"	4	7	-	-	-	-
		-1 -11						
V	#4	5'-9"	6	23	-	-	-	-
V1	#4	4'-6"	6	18	-	-	-	-
V2	#4	2'-9"	8	15	-	-	-	-
V3	#4	7'-6"	6	30	-	-	-	-
		-1 - 11	_					
Z	#5	4'-9"	4	20	-	-	-	-
Z1	#4	4'-3"	4	11	-	-	-	-
Z2	#4	3'-6"	6	14	-	-	-	-
		. 1 - 11						
DOWEL	#4	1'-0"	13	9	-	-	-	-
TOTAL	_ I \	· T C C / ' '	\	470				
TOTAL REINF. STEEL (lbs.) CLASS "A" CONC. (cu. yds.)				473				
CLA22	A CUNC	, (CU.	yus.)	9.1				



CONTRACT STANDARDS & DEVELOPMENT UNIT STANDARDS AND SPECIAL DESIGN
Office 919-707-6950 FAX 919-250-4119

DETAIL OF REINFORCED CONCRETE ENDWALL FOR 84" DIAMETER PIPE WITH CONC. SILL

ORIGINAL BY:	DATE:
MODIFIED BY: K.A.KEMPF	DATE: 6-2017
CHECKED BY:	_ DATE:
FILE SPEC.: details/kkempf/english/	R2915C_838D39_84endwall.dgn