DocuSign Envelope ID: 8FF6719D-7D19-48C1-9FDC-0403973C721B

BILL OF MATERIAL

WING 1

BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
H1	6	#4	STR	11'-1"	44
H2	2	#4	STR	8'-5"	11
H3	2	#4	STR	4'-0"	5
H4	12	#4	1	3'-3"	26
H5	2	#4	STR	11'-8"	16
N1	2	#5	2	10'-2"	21
N2	3	#5	2	9'-4"	29
N3	3	#5	2	8'-4"	26
N4	3	#4	2	7'-3"	15
N5	3	#4	2	6'-3"	13
S1	3	#6	STR	6'-0"	27
T1	3	#5	STR	13'-0"	41
V1	2	#4	STR	8'-2"	11
V2	3	#4	STR	7'-4"	15
V3	3	#4	STR	6'-4"	13
V4	3	#4	STR	5'-3"	11
V5	3	#4	STR	4'-3"	9
Z1	2	#4	3	5'-10"	8
Z2	4	#4	3	5'-2"	14
Z3	4	#4	3	4'-5"	12
Z4	4	#4	3	3'-7"	10

REINFORCING STEEL 377 LBS

CLASS A CONCRETE 5.59 CY

WING 2

BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
H6	12	#4	STR	19'-2"	154
H7	2	#4	STR	28'-5"	38
H8	2	#4	STR	15'-1"	20
H9	12	#4	1	3'-3"	26
H10	4	#4	STR	19'-4"	52
N6	3	#5	2	10'-4"	32
N7	5	#5	2	9'-10"	51
N8	8	#5	2	8'-11"	74
N9	8	#4	2	8'-0"	43
N10	8	#4	2	7'-2"	38
N11	8	#4	2	6'-3"	33
S1	3	#6	STR	6'-0"	27
T2	3	#5	STR	38'-6"	120
V6	3	#4	STR	8'-4"	17
V7	5	#4	STR	7'-10"	26
V8	8	#4	STR	6'-11"	37
V9	8	#4	STR	6'-0"	32
V10	8	#4	STR	5'-2"	28
V11	8	#4	STR	4'-3"	23
Z5	8	#4	3	5'-8"	30
Z6	8	#4	3	5'-2"	28
Z7	8	#4	3	4'-8"	25
Z8	8	#4	3	4'-1"	22
Z9	8	#4	3	3'-7"	19

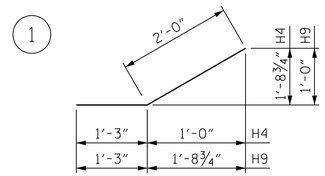
REINFORCING STEEL 995 LBS

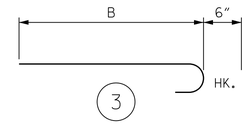
CLASS A CONCRETE 16.22 CY

REINFORCING STEEL
FOR 2 WINGS 1,372 LBS

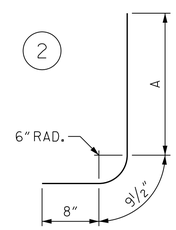
CLASS A CONCRETE
2 WINGS 22.21 CY
1 HEADWALLS 1.19 CY
1 END CURTAIN WALLS 1.38 CY
TOTAL 24.78 CY

BAR TYPES





DIMENSION B	
BAR	LENGTH
Z1	5'-4"
Z2	4'-8"
Z3	3'-11"
Z4	3'-1"
Z5	5'-2"
Z6	4'-8"
Z7	4'-2"
Z8	3'-7"
Z9	3'-1"



DIMENSION A	
BAR	LENGTH
N1	8'-8½"
N2	7'-10½"
N3	6'-10½"
N4	5'-9½"
N5	4'-9½"
N6	8'-10½"
N7	8'-4½"
N8	7'-5½"
N9	6'-6½"
N10	5'-8½"
N11	4'-9½"

ALL BAR DIMENSIONS ARE OUT TO OUT.

PROJECT NO. W-5107

JOHNSTON COUNTY

STATION: 26+51.38 -L-

SHEET 6 OF 7

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

WINGS FOR CONCRETE BOX CULVERT

H = 8'-0" SLOPE = 3:1

NORTH CAROLINA PROFESSIONAL SEAL 027799 ENGINEER PAUL A. de PAOLI

11/20/2014

MI ENGINEERING
1011 SCHAUB DRIVE, SUITE 100
RALEIGH, NC 27606
(919) 851-6606
FIRM PE NUMBER : P-0671

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

SHEET NO. C-6

TOTAL SHEETS 36

DRAWN BY : J.S. ISRAELNAIM DATE : 07/14
CHECKED BY : P.A. de PAOLI DATE : 07/14
DESIGN ENGINEER OF RECORD : P.A. de PAOLI DATE : 07/14

11/19/2014
4:55:47 PM
User: blanning
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