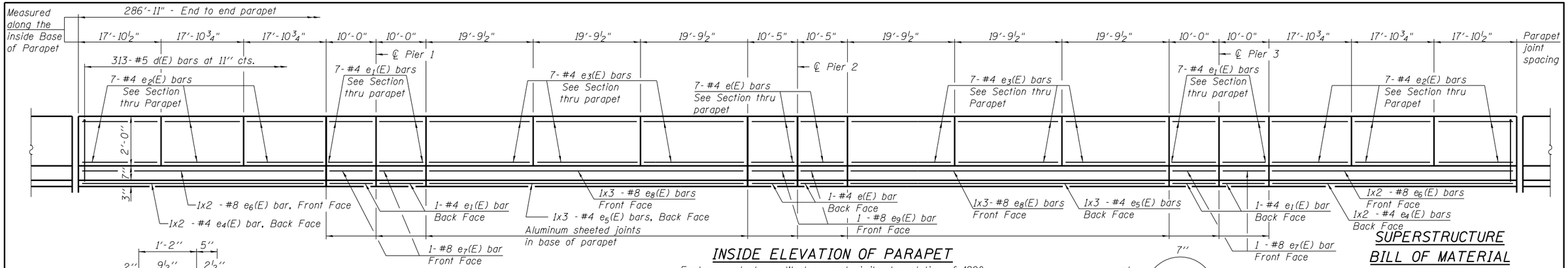
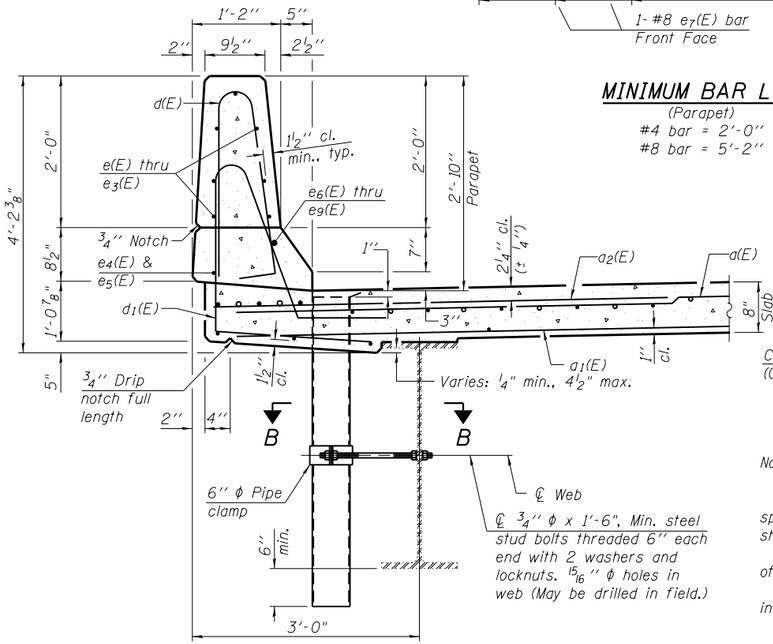


INSIDE ELEVATION OF PARAPET

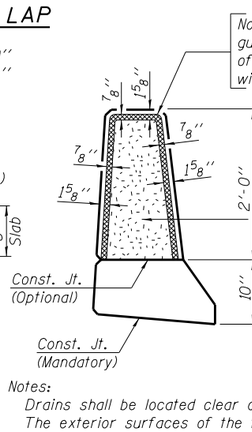
East parapet shown. West parapet similar by rotation of 180°.



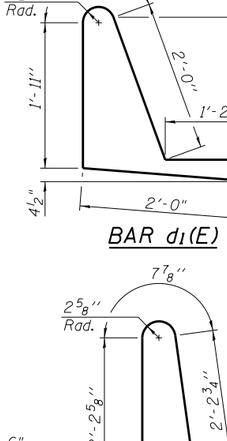
SECTION THRU PARAPET

MINIMUM BAR LAP

(Parapet)
#4 bar = 2'-0"
#8 bar = 5'-2"



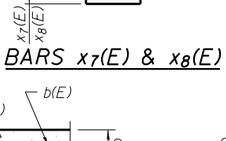
PARAPET JOINT DETAILS



BARS a3(E) & a6(E)

BAR d1(E)

BAR d(E)



BARS x7(E) & x8(E)

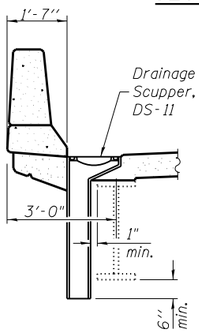
BAR x1(E)

BARS x2(E) THRU X6(e)

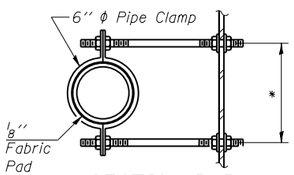
SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
d(E)	860	#5	32'-6"	
a1(E)	688	#5	32'-0"	
a2(E)	430	#6	6'-6"	
a3(E)	64	#5	11'-4"	
a4(E)	8	#5	23'-9"	
a5(E)	40	#5	25'-9"	
a6(E)	8	#5	4'-6"	
a7(E)	16	#5	1'-6"	
b(E)	924	#5	28'-5"	
b1(E)	567	#6	18'-1"	
b2(E)	672	#5	26'-4"	
* b5(E)	220	#4	27'-11"	
c1(E)	287	#5	25'-6"	
c2(E)	574	#5	1'-4"	
d(E)	626	#5	5'-7"	
d1(E)	626	#5	7'-8"	
e(E)	32	#4	10'-2"	
e1(E)	64	#4	9'-9"	
e2(E)	84	#4	17'-7"	
e3(E)	84	#4	19'-6"	
e4(E)	8	#4	27'-10"	
e5(E)	12	#4	21'-1"	
e6(E)	8	#8	29'-6"	
e7(E)	8	#8	9'-9"	
e8(E)	12	#8	23'-3"	
e9(E)	4	#8	10'-2"	
x1(E)	120	#5	4'-1"	
x2(E)	6	#5	6'-9"	
x3(E)	33	#5	7'-2"	
x4(E)	25	#5	7'-7"	
x5(E)	16	#5	7'-11"	
x6(E)	20	#5	8'-4"	
* x7(E)	2288	#4	3'-0"	
* x8(E)	572	#4	3'-6"	
Reinforcement Bars, Epoxy Coated		Pound	152,790	
Concrete Superstructure		Cu. Yds.	695.7	

Bars indicated thus 1 x 2-#8 etc. indicates 1 line of bars with 2 lengths per line.

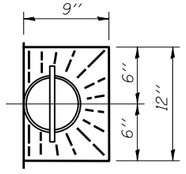


SECTION C-C

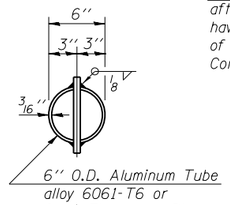


SECTION B-B

* Dimension as required by Pipe Clamp

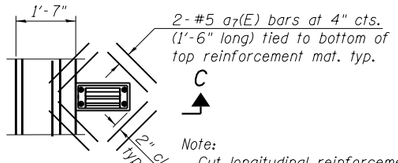


TOP PLAN



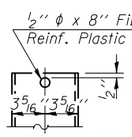
TOP PLAN

(Showing Aluminum Tube)

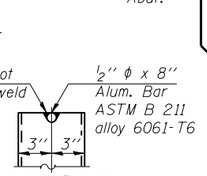


PLAN

Note: Cut longitudinal reinforcement to clear drainage scuppers.

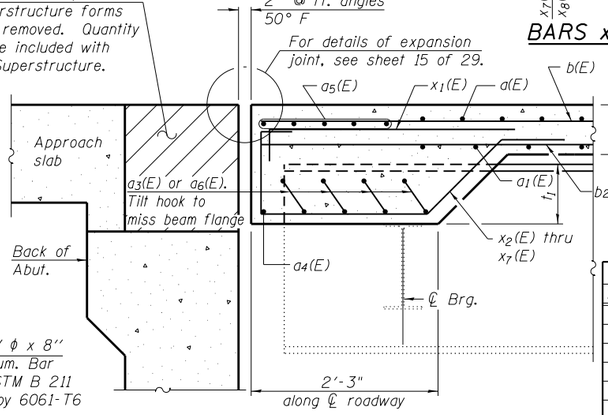


FIBERGLASS PIPE



ALUMINUM TUBE

Hatched area to be poured after superstructure forms have been removed. Quantity of concrete included with Concrete Superstructure.



SECTION A-A

* Quantity of x7(E) & x8(E) is estimated. Actual quantities will be determined in field.
b5(E) & x7(E) shall be used when fillets are ≥ 4" but < 9"
b5(E) & x8(E) shall be used when fillets are > 9"

Table of t_1 Dimensions		
Beam No.	N. Abut	S. Abut
1	3⅜"	3⅜"
2	3⅜"	3⅜"
3	3⅜"	3⅜"
4	3¼"	3⅜"
5	3	3
6	9	9½"
7	7½"	7⅞"
8	6⅛"	6⅜"
9	4½"	4¾"
10	3	3"

Table of t_1 Dimensions							
x bar	Dimensions				N. Abut.	S. Abut.	
	W	X	Y	Z	3 on either side of Beam No.:	3 on either side of Beam No.:	Total No. of Bars
x2(E)	10"	7⅜"	7⅜"	10⅜"	10**	1**	6
x3(E)	12"	9⅜"	9⅜"	13¼"	1**,2,3,4,9	2	33
x4(E)	14"	11⅜"	11⅜"	16⅛"	5***	3,4,9,10**	25
x5(E)	16"	13⅜"	13⅜"	18⅞"	8	5***,8	16
x6(E)	18"	15⅜"	15⅜"	21¼"	6***,7	6***,7	20

** Indicates bars placed on only one side of beam.
*** Indicates 3 bars placed on one side of beam and 1 bar placed on opposing side.

S-D2 8-31-12

BENTON & ASSOCIATES, INC.
QUIGG ENGINEERING, INC.

FILE NAME	USER NAME =	DESIGNED - DRB	REVISED
06001Ø4-76G10-011-SuperstructureDetails01.dgn		CHECKED - MBH	REVISED
	PLOT SCALE =	DRAWN - TF	REVISED
	PLOT DATE =	CHECKED - JK	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE DETAILS
STRUCTURE NO. 060-0104
SHEET NO. 11 OF 29 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	60-2HB-2	MADISON	52	29
		CONTRACT NO. 76G10		
	ILLINOIS FED. AID PROJECT			