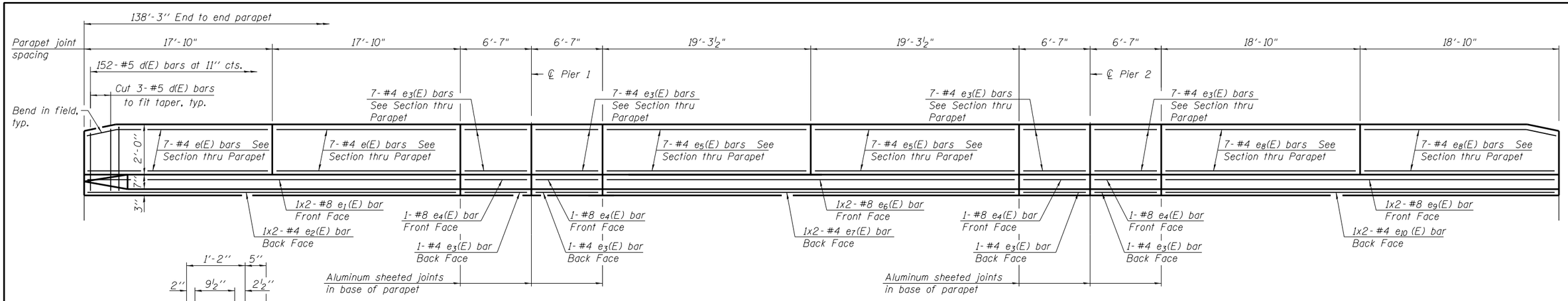
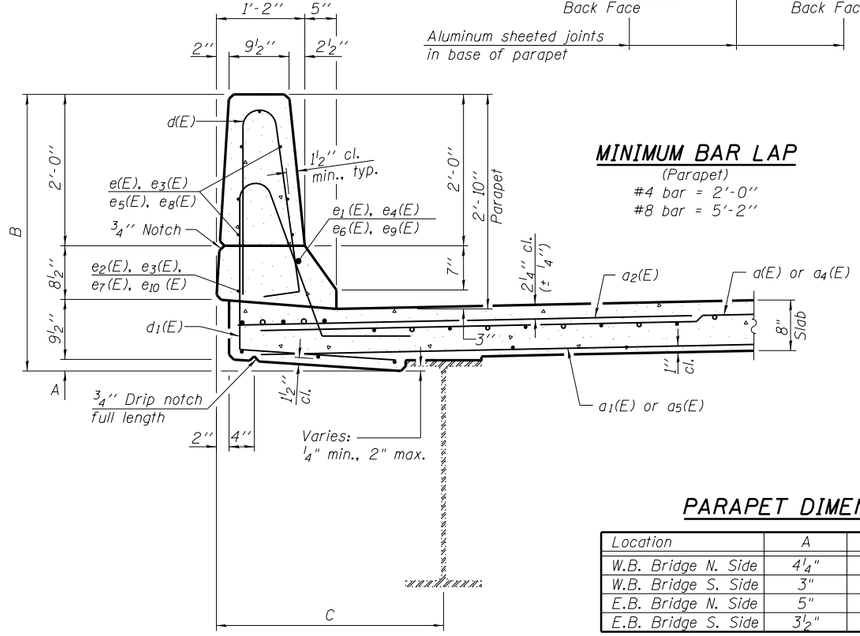


INSIDE ELEVATION OF PARAPET

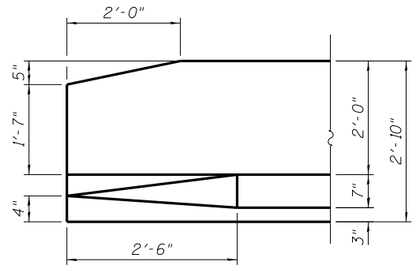


MINIMUM BAR LAP

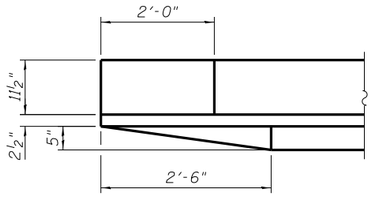
(Parapet)
#4 bar = 2'-0"
#8 bar = 5'-2"

PARAPET DIMENSIONS

Location	A	B	C
W.B. Bridge N. Side	4¼"	3'-10¼"	3'-0"
W.B. Bridge S. Side	3"	3'-9"	2'-11"
E.B. Bridge N. Side	5"	3'-11"	3'-0"
E.B. Bridge S. Side	3½"	3'-9½"	3'-2"



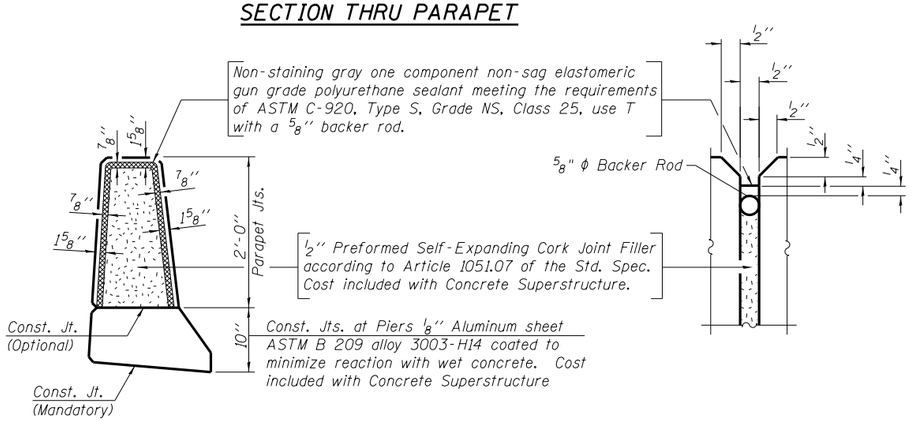
ELEVATION



PLAN

PARAPET END DETAILS

SECTION THRU PARAPET



PARAPET JOINT DETAILS

E.B. SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a2(E)	182	# 6	6'-6"	
a3(E)	8	# 5	1'-6"	
a4(E)	182	# 5	43'-6"	
a5(E)	164	# 5	42'-10"	
b(E)	282	# 5	25'-5"	
b1(E)	88	# 6	26'-4"	
b2(E)	252	# 5	22'-3"	
d(E)	304	# 5	5'-7"	
d1(E)	300	# 5	7'-9"	
e(E)	28	# 4	17'-6"	
e1(E)	4	# 8	20'-3"	
e2(E)	4	# 4	18'-8"	
e3(E)	64	# 4	6'-3"	
e4(E)	8	# 8	6'-3"	
e5(E)	28	# 4	18'-11"	
e6(E)	4	# 8	21'-9"	
e7(E)	4	# 4	20'-2"	
e8(E)	28	# 4	18'-6"	
e9(E)	4	# 8	21'-3"	
e10 (E)	4	# 4	19'-8"	
m (E)	32	# 6	25'-9"	
m1(E)	28	# 6	8'-8"	
m2(E)	24	# 6	6'-8"	
m4(E)	8	# 6	2'-9"	
s(E)	84	# 5	7'-9"	
s1(E)	84	# 4	9'-2"	
u1(E)	100	# 4	3'-10"	
v(E)	90	# 5	3'-9"	
Reinforcement Bars, Epoxy Coated		Pound	44,310	
Concrete Superstructure		Cu. Yds.	224.4	

W.B. SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
d(E)	182	# 5	43'-3"	
a1(E)	164	# 5	42'-7"	
a2(E)	182	# 6	6'-6"	
a3(E)	8	# 5	1'-6"	
b(E)	282	# 5	25'-5"	
b1(E)	88	# 6	26'-4"	
b2(E)	252	# 5	22'-3"	
d(E)	304	# 5	5'-7"	
d1(E)	300	# 5	7'-9"	
e(E)	28	# 4	17'-6"	
e1(E)	4	# 8	20'-3"	
e2(E)	4	# 4	18'-8"	
e3(E)	64	# 4	6'-3"	
e4(E)	8	# 8	6'-3"	
e5(E)	28	# 4	18'-11"	
e6(E)	4	# 8	21'-9"	
e7(E)	4	# 4	20'-2"	
e8(E)	28	# 4	18'-6"	
e9(E)	4	# 8	21'-3"	
e10 (E)	4	# 4	19'-8"	
m(E)	32	# 6	25'-9"	
m1(E)	28	# 6	8'-8"	
m2(E)	24	# 6	6'-8"	
m3(E)	8	# 6	2'-8"	
s(E)	84	# 5	7'-9"	
s1(E)	84	# 4	9'-2"	
u(E)	98	# 4	5'-2"	
v(E)	90	# 5	3'-9"	
Reinforcement Bars, Epoxy Coated		Pound	44,310	
Concrete Superstructure		Cu. Yds.	223.9	

NOTES:

1. Bars indicated thus 1x2-#5 etc. indicates 1 line of bars with 2 lengths per line.
2. See sheet S-14 for d(E) and d_1(E) bar bending diagram.

Ciorba Group, Inc.
CONSULTING ENGINEERS
2007 North Cumberland Avenue
Suite 402 Chicago, Illinois 60656
Tel. 773.775.4605
Fax 773.775.4514
Email ciil4chicago@ciorba.com

USER NAME = bsauter	DESIGNED - BWS	REVISED -	
	CHECKED - MHT	REVISED -	
PLOT SCALE = 16:0.0003 '/ in.	DRAWN - RD	REVISED -	
PLOT DATE = 8/14/2012	CHECKED - MHT	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE DETAILS
SN 018-0047 (W.B.) & 018-0048 (E.B.)
SHEET NO. S-13 OF S-34 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	(18-47B, 18-47HB)BR	CUMBERLAND	147	71
		CONTRACT NO. 74466		
	ILLINOIS FED. AID PROJECT			

N:\PROJ\0003377.00\0003377.07\Design\Structural\CAD\018-0047 & 018-0048-74466 13 Superstructure Details.dgn