

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

W.B. ROADWAY SUPERSTRUCTURE

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a500 (E)	377	#5	42'-6"	
a501 (E)	321	#5	41'-10"	
a502 (E)	378	#6	6'-6"	
a503 (E)	6	#5	7'-9"	
a504 (E)	30	#5	8'-4"	
a505 (E)	8	#5	49'-1"	
a506 (E)	2	#5	48'-4"	
a507 (E)	15	#5	1'-6"	
b500 (E)	414	#4	32'-6"	
b501 (E)	424	#4	36'-2"	
b502 (E)	86	#4	40'-10"	
b503 (E)	43	#4	41'-4"	
d500 (E)	584	#5	6'-10"	
d501 (E)	292	#5	6'-5"	
d502 (E)	292	#5	8'-5"	
e500 (E)	17	#4	16'-8"	
e501 (E)	46	#4	17'-6"	
e502 (E)	32	#4	8'-9"	
e503 (E)	21	#4	17'-11"	
e504 (E)	16	#4	9'-0"	
e505 (E)	21	#4	18'-2"	
e506 (E)	17	#4	16'-5"	
e507 (E)	4	#4	15'-7"	
e508 (E)	2	#4	26'-10"	
e509 (E)	2	#8	28'-0"	
e510 (E)	4	#8	8'-9"	
e511 (E)	2	#8	29'-9"	
e512 (E)	2	#8	9'-0"	
e513 (E)	2	#8	30'-2"	
e514 (E)	2	#8	27'-7"	
e515 (E)	2	#4	28'-3"	
e516 (E)	2	#4	28'-7"	
e517 (E)	2	#4	25'-7"	
e518 (E)	34	#4	16'-7"	
e519 (E)	4	#4	15'-9"	
e520 (E)	4	#4	17'-5"	
e521 (E)	32	#4	9'-2"	
e522 (E)	16	#4	9'-3"	
e523 (E)	2	#4	25'-9"	
e524 (E)	4	#4	27'-10"	
e525 (E)	2	#4	26'-7"	
e526 (E)	4	#8	27'-9"	
e527 (E)	4	#8	9'-2"	
e528 (E)	2	#8	9'-3"	
e529 (E)	4	#8	29'-5"	
s510 (E)	1602	#4	7'-4"	
x500 (E)	82	#5	6'-5"	
Concrete Superstructure		Cu. Yds.	414.0	
Bridge Deck Grooving		Sq. Yd.	1,124	
Protective Coat		Sq. Yd.	1,456	
Reinforcement Bars, Epoxy Coated		Pound	79,400	

E.B. ROADWAY SUPERSTRUCTURE

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a500 (E)	359	#5	42'-6"	
a501 (E)	305	#5	41'-10"	
a502 (E)	384	#6	6'-6"	
a503 (E)	3	#5	7'-9"	
a504 (E)	15	#5	8'-4"	
a505 (E)	4	#5	49'-1"	
a506 (E)	1	#5	48'-4"	
a507 (E)	16	#5	1'-6"	
a508 (E)	3	#5	7'-0"	
a509 (E)	15	#5	7'-6"	
a510 (E)	4	#5	43'-9"	
a511 (E)	1	#5	43'-0"	
a512 (E)	7	#5	40'-7"	
a513 (E)	6	#5	39'-9"	
a514 (E)	17	#5	42'-6"	
a515 (E)	15	#5	42'-1"	
b520 (E)	414	#5	33'-10"	
b521 (E)	424	#5	37'-8"	
b522 (E)	43	#6	43'-4"	
b523 (E)	43	#6	46'-6"	
b524 (E)	43	#6	40'-6"	
d500 (E)	594	#5	6'-10"	
d502 (E)	289	#5	8'-5"	
d503 (E)	305	#5	6'-5"	
e501 (E)	21	#4	17'-6"	
e502 (E)	16	#4	8'-9"	
e504 (E)	16	#4	9'-0"	
e510 (E)	2	#8	8'-9"	
e512 (E)	2	#8	9'-0"	
e519 (E)	17	#4	15'-9"	
e530 (E)	4	#4	16'-1"	
e531 (E)	21	#4	19'-3"	
e532 (E)	17	#4	15'-6"	
e533 (E)	4	#4	14'-8"	
e534 (E)	16	#4	8'-3"	
e535 (E)	16	#4	9'-11"	
e536 (E)	2	#4	25'-1"	
e537 (E)	2	#4	27'-7"	
e538 (E)	2	#4	30'-4"	
e539 (E)	2	#4	24'-3"	
e540 (E)	2	#8	26'-6"	
e541 (E)	2	#8	8'-3"	
e542 (E)	2	#8	29'-2"	
e543 (E)	2	#8	9'-11"	
e544 (E)	2	#8	31'-10"	
e545 (E)	2	#8	26'-3"	
e546 (E)	17	#4	15'-2"	
e547 (E)	4	#4	14'-8"	
e548 (E)	28	#4	15'-8"	
e549 (E)	21	#4	19'-2"	
e550 (E)	17	#4	15'-8"	
e551 (E)	4	#4	16'-6"	
e552 (E)	16	#4	10'-0"	
e553 (E)	16	#4	10'-6"	
e554 (E)	2	#4	23'-11"	
e555 (E)	2	#4	33'-3"	

Bar	No.	Size	Length	Shape
e556 (E)	2	#4	30'-1"	
e557 (E)	2	#4	25'-2"	
e558 (E)	2	#8	25'-8"	
e559 (E)	2	#8	10'-0"	
e560 (E)	2	#8	34'-10"	
e561 (E)	2	#8	10'-6"	
e562 (E)	2	#8	31'-8"	
e563 (E)	2	#8	26'-4"	
s510 (E)	1628	#5	7'-4"	
x500 (E)	82	#5	6'-5"	
Concrete Superstructure		Cu. Yds.	421.0	
Bridge Deck Grooving		Sq. Yd.	1,144	
Protective Coat		Sq. Yd.	1,482	
Reinforcement Bars, Epoxy Coated		Pound	101,610	

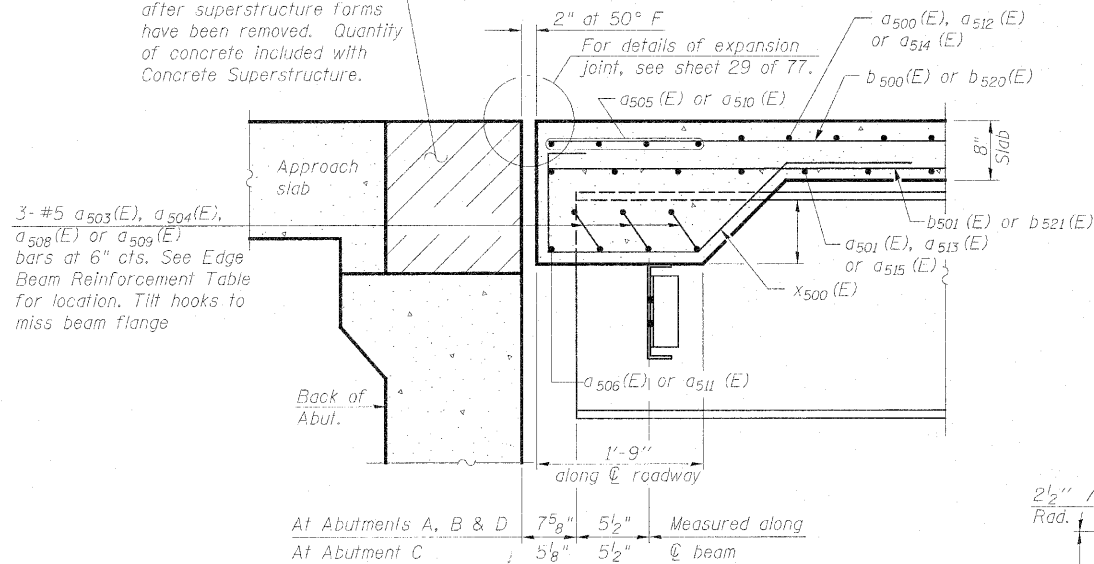
Non-staining gray one component non-sag elastomeric gun grade polyurethane sealant meeting the requirements of ASTM C-920, Type S, Grade NS, Class 25, use T with a 5/8" backer rod.

1/2" Preformed Self-Expanding Cork Joint Filler according to Article 1051.07 of the Std. Spec. Cost included with Concrete Superstructure.

Const. Jts. at Piers 1/8" Aluminum sheet ASTM B 209 alloy 3003-H14 coated to minimize reaction with wet concrete. Cost included with Concrete Superstructure.

PARAPET JOINT DETAILS

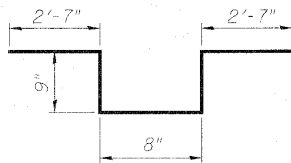
Hatched area to be poured after superstructure forms have been removed. Quantity of concrete included with Concrete Superstructure.



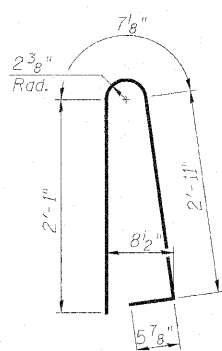
SECTION A-A

EDGE BEAM REINFORCEMENT TABLE

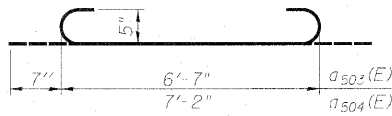
Location	Beams 1A-1 Beams 12-13	Beams 1-6 Beams 7-12
Abutment A	#5 a503(E) bars	#5 a504(E) bars
Abutment B	#5 a503(E) bars	#5 a504(E) bars
Abutment C	#5 a508(E) bars	#5 a509(E) bars
Abutment D	#5 a503(E) bars	#5 a504(E) bars



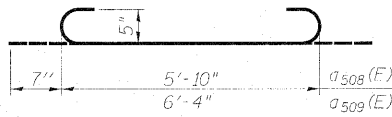
BAR s510 (E)



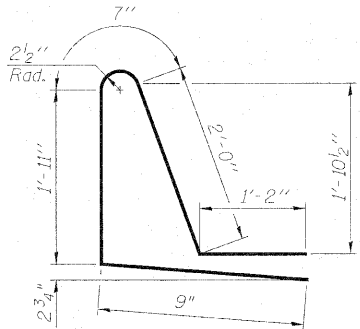
BAR d500 (E)



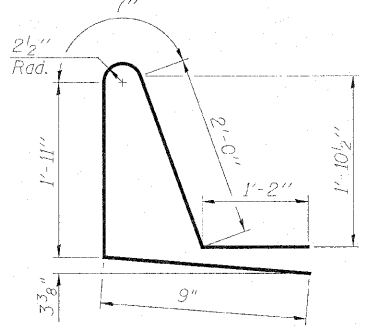
BARS a503 (E) & a504 (E)



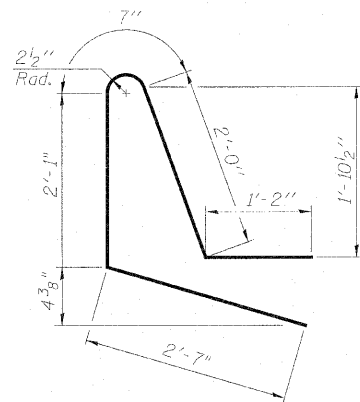
BARS a508 (E) & a509 (E)



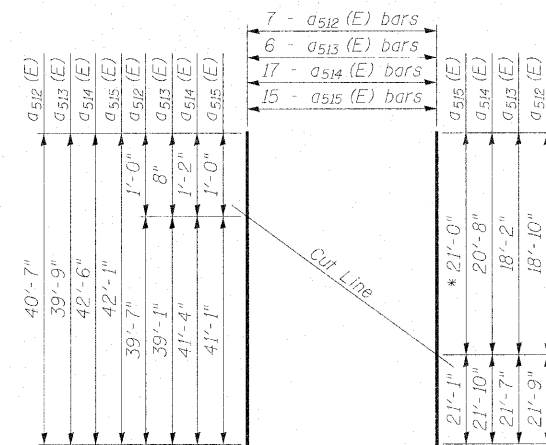
BAR d501 (E)



BAR d503 (E)



BAR d502 (E)



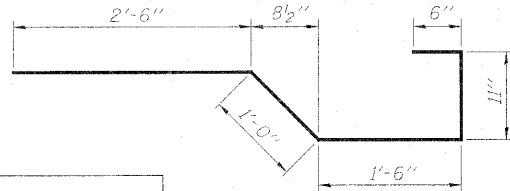
FIELD CUTTING DIAGRAM

Order bars full length. Cut to fit as shown and place at one end of the dimension line shown on the plans. Use remainder of bars at opposite end of the dimension line.
*Indicates bar length to be discarded when an odd number of bars are required.

SUPERSTRUCTURE DETAILS
STRUCTURE NO. 081-0024 (W.B.)
STRUCTURE NO. 081-0025 (E.B.)

DESIGNED	ASJ
CHECKED	SPK
DRAWN	ASJ
CHECKED	SPK

BAR x500 (E)



INFRASTRUCTURE
ENGINEERING, INCORPORATED
33 West Monroe | Suite 1540 | Chicago, IL 60603
P 312.425.9560 | F 312.425.9564 | www.infrastructure-eng.com

SHEET NO. 22	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
77 SHEETS	280	81-1(VB-1)R	ROCK ISLAND	503	358
CONTRACT NO. 64815					
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					