CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE						
				90% FED 10% STATE	100% STATE	90% FED 10% STATE	90% FED 10% STATE	90% FED 10% STATE	90% FED 10% STATE	90% FED 10% STATE
				ROADWAY	SAFETY	BRIDGE	ROADWAY LIGHTING		TRAFFIC SIGNALS	
				0004	0005	0013	0021	0021	0021	0021
				URBAN	URBAN	SN 016-0098	IDOT	CDOT	CONGRESS	VAN BUREN
44201761	CLASS D PATCHES, TYPE I, 10 INCH	SQ YD	30	30						
44201765	CLASS D PATCHES, TYPE II, 10 INCH	SQ YD	30	30						
44201769	CLASS D PATCHES, TYPE III, 10 INCH	SQ YD	104	104						
50101500	REMOVAL OF EXISTING SUPERSTRUCTURES	EACH	1			1				
50102400	CONCRETE REMOVAL	CU YD	202.4			202.4				
50157300	PROTECTIVE SHIELD	SQ YD	2,633			2633				
50300225	CONCRETE STRUCTURES	CU YD	193.7			193.7				
50300255	CONCRETE SUPERSTRUCTURE	CU YD	1,069.4			1,069.4				
50300260	BRIDGE DECK GROOVING	SQ YD	1,332			1,332				
50300300	PROTECTIVE COAT	SQ YD	3,508			3,508				
50301350	CONCRETE SUPERSTRUCTURE (APPROACH SLAB)	CU YD	251			251				
50500105	FURNISHING AND ERECTING STRUCTURAL STEEL	L SUM	1			1				
50500505	STUD SHEAR CONNECTORS	EACH	19,773			19,773				
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	319,490			319,490				

X = SPECIALTY ITEM

3 REVISED SHEET 1/7/2026

2 REVISED SHEET 1/5/2026

MODEL: Default
FILE NAME: P:\10-IL\14411-1DOT - Sacramento and Paulina over I-290\Work\OA&QC\Paulina\2025.10.15 Revised Final PSE\Revised CAD Files\D162K64-cht-SQQ.dgn

HORNER SHIFRIN
WWW. HORNERSHIFRIN .COM

USER NAME = omartinez	DESIGNED - KRK	REVISED -	
	DRAWN - RO	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED - BLP	REVISED -	
PLOT DATE = 10/16/2025	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAI–290 (EISENHOWER EXPRESSWAY) AT PAULINA STREET
SUMMARY OF QUANTITIES

SCALE: NTS | SHEET 4 OF 19 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2019-191-B-R	COOK	265	8
		CONTRACT NO. 62K64		
		ILLINOIS	FED. AID PROJECT	

GENERAL NOTES:

1. Fasteners shall be ASTM F3125 Grade A325 Type 1. Fasteners shall be hot dip galvanized. See special provision for "Hot Dip Galvanizing for Structural Steel". Bolts ⅞" Ø, holes 1 5/16" Ø, unless otherwise noted.

2. Calculated weight of structural steel:
   Grade 50 = 706,180 lbs
   Grade 36 = 54,070 lbs

3. All structural steel shall be galvanized. See special provision for "Hot Dip Galvanizing for Structural Steel."

4. No field welding is permitted except as specified in the contract documents.

5. Reinforcement bars designated (E) shall be epoxy coated.

6. The finishing machine rails shall be placed on the top of the top flange of the exterior beams within the deck pour. Beam blocks shall be placed between beams at all tie locations in each bay for the full width of the deck pour.

7. If the Contractor elects to use cantilever forming brackets on the exterior beams or girders, the brackets shall be placed at the same locations as required for the hardwood blocks in Article 503.06(b) of the Standard Specifications. If additional cantilever forming brackets are required, hardwood blocking shall be wedged between the exterior and first interior beam at each of these additional bracket locations.

8. Slipforming of the parapets is not allowed.

9. Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of ⅛" (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.

10. Film forming concrete sealer shall be applied on horizontal surfaces, and penetrating concrete sealer shall be applied on vertical surfaces. Concrete Sealer shall be applied to new abutment and pier beam seats prior to setting bearings or structural steel. Concrete Sealer shall be applied to new concrete diaphragms, structural concrete repairs, and to existing abutment and pier faces adjacent to I-290.

11. Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

12. The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.

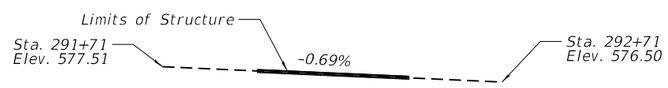
13. The existing utilities attached to the bridge may contain asbestos. The Contractor shall take appropriate precautions to address the presence of asbestos on this project. The removal procedure shall comply with City of Chicago, State, and Federal regulations.

14. The Contractor shall salvage the existing aluminum Bridge Railing including all posts, railings, all attachments and the aluminum Pedestrian Fence and Railing. The aluminum Bridge Railing and aluminum Pedestrian Fence and Railing shall be transported and unloaded by the Contractor to the District Bridge Yard in Elk Grove Village at 1101 Biesterfiled Road during the week days Monday-Friday, and between the hours of 8 am and 2 pm. The Contractor shall notify the District Bridge Office 48 hours in advance of the delivery at (847) 956-1444. Cost included in Removal of Existing Structure.

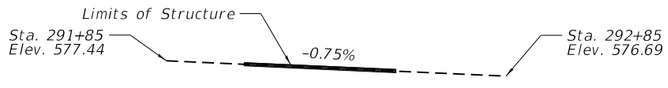
15. Cost of removal of existing protective shield is included in the pay item "Removal of Existing Superstructure" and shall not be paid for separately.

16. Bridge Fence Railing, Curved shall be galvanized.

17. The Contractor shall submit Full Constrution Process Plan to CTA for review and approval. Contractor shall minimize impacts to Rail Operations. See Special Provisions.



EXIST. WB I-290 PROFILE GRADE
(Along WB I-290 Alignment)



EXIST. EB I-290 PROFILE GRADE
(Along EB I-290 Alignment)

INDEX OF SHEETS

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
REMOVAL OF EXISTING SUPERSTRUCTURES	EACH	1		1
CONCRETE REMOVAL	CU YD		202.4	202.4
PROTECTIVE SHIELD	SQ YD	2,633		2,633
CONCRETE STRUCTURES	CU YD		193.7	193.7
CONCRETE SUPERSTRUCTURE	CU YD	1,069.4		1,069.4
BRIDGE DECK GROOVING	SQ YD	1,332		1,332
PROTECTIVE COAT	SQ YD	3,508		3,508
CONCRETE SUPERSTRUCTURE (APPROACH SLAB)	CU YD	251.0		251.0
FURNISHING AND ERECTING STRUCTURAL STEEL	L SUM	1		1
STUD SHEAR CONNECTORS	EACH	19,773		19,773
REINFORCEMENT BARS, EPOXY COATED	POUND	296,920	22,570	319,490
BAR SPLICERS	EACH	1,641	52	1,693
ALUMINUM RAILING, TYPE L	FOOT	180		180
BRIDGE FENCE RAILING, CURVED	FOOT	526		526
NAME PLATES	EACH	1		1
ELASTOMERIC BEARING ASSEMBLY, TYPE I	EACH	52		52
ANCHOR BOLTS, 3/4"	EACH		130	130
TEMPORARY SOIL RETENTION SYSTEM	SQ FT		654	654
DRAINAGE SYSTEM FOR STRUCTURES	L SUM	1		1
GRANULAR BACKFILL FOR STRUCTURES	CU YD		142	142
CONCRETE SEALER	SQ FT		5,743	5,743
EPOXY CRACK INJECTION	FOOT		34	34
GEOCOMPOSITE WALL DRAIN	SQ YD	192		192
PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT		422	422
GRAFFITI REMOVAL	SQ YD		13	13
LIGHTWEIGHT CELLULAR CONCRETE FILL	CU YD		2,640	2,640
BAR TERMINATORS	EACH	946		946
DRAINAGE SCUPPERS, DS-11	EACH	10		10
STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT		1,245	1,245
STRUCTURAL REPAIR OF CONCRETE (DEPTH GREATER THAN 5 INCHES)	SQ FT		251	251
REMOVING AND REPLACING EXPANSION JOINT	FOOT	24		24

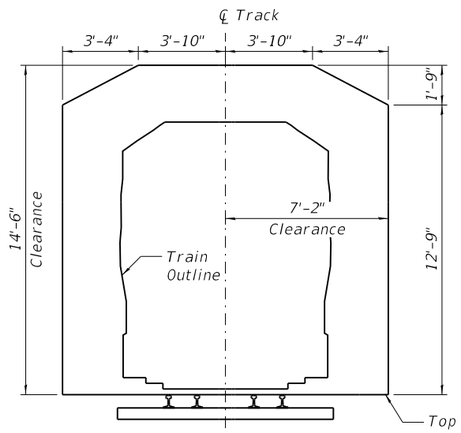
3

STATION 402+31.73
RE-BUILT 202_ BY
STATE OF ILLINOIS
F.A.U. RT. 2856
SEC. 2019-191-B-R
LOADING HL-93
STRUCTURE NO. 016-0098

NAME PLATE

See Std. 515001

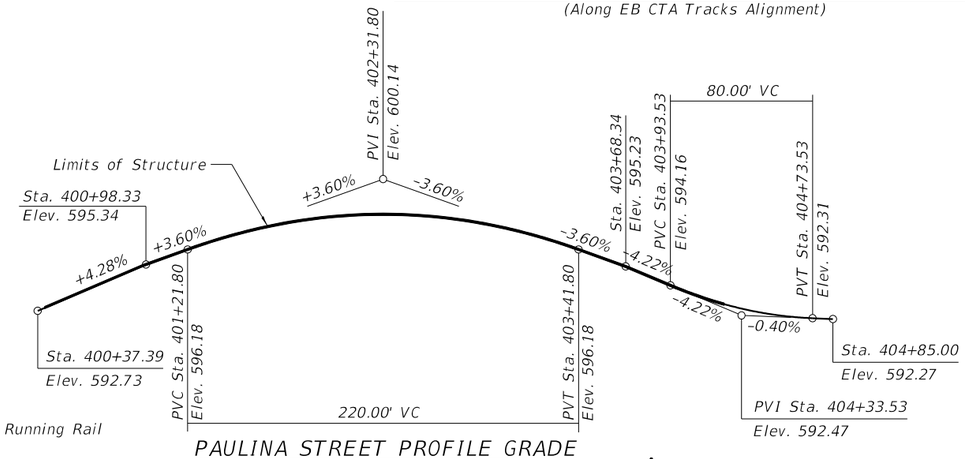
Existing Name Plate shall be cleaned and relocated next to new Name Plate. Cost included with Name Plate.



CTA TRAIN CLEARANCE DIAGRAM

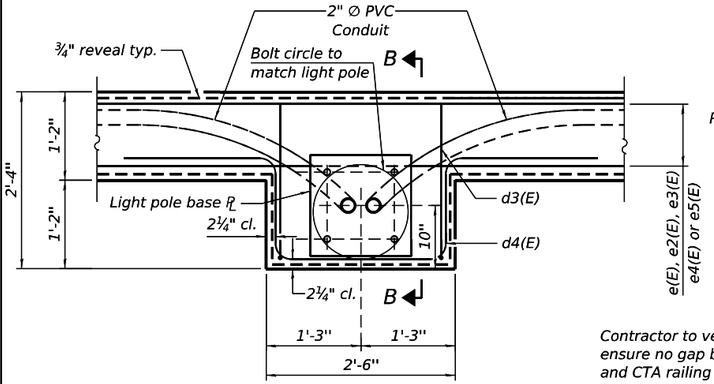
EXIST. WB BLUE LINE CTA TRACKS PROFILE GRADE
(Along WB CTA Tracks Alignment)

EXIST. EB BLUE LINE CTA TRACKS PROFILE GRADE
(Along EB CTA Tracks Alignment)

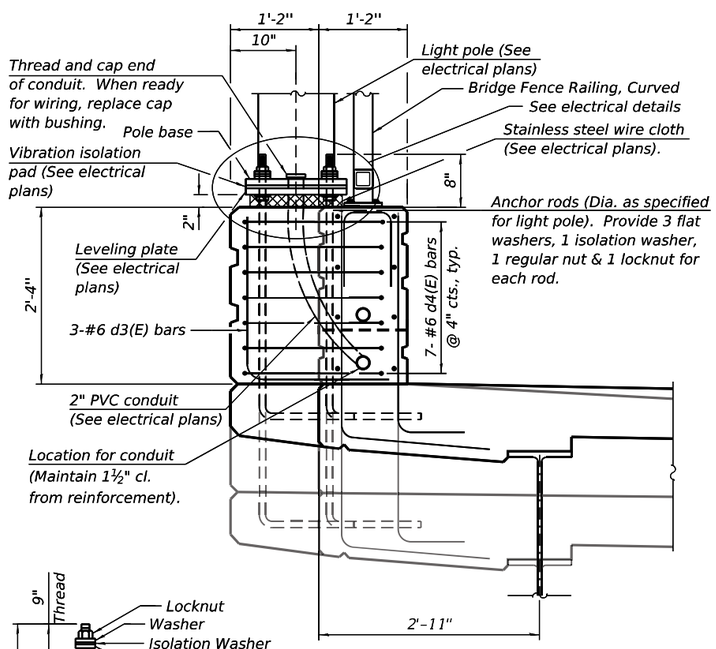


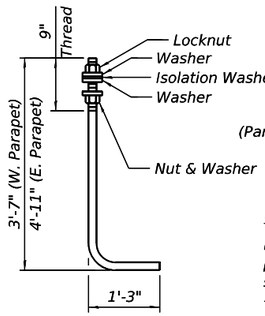
PAULINA STREET PROFILE GRADE
Along ℄ Paulina St. See sheet S-1 for PGL location

3 REVISED SHEET 1/7/2026



PLAN



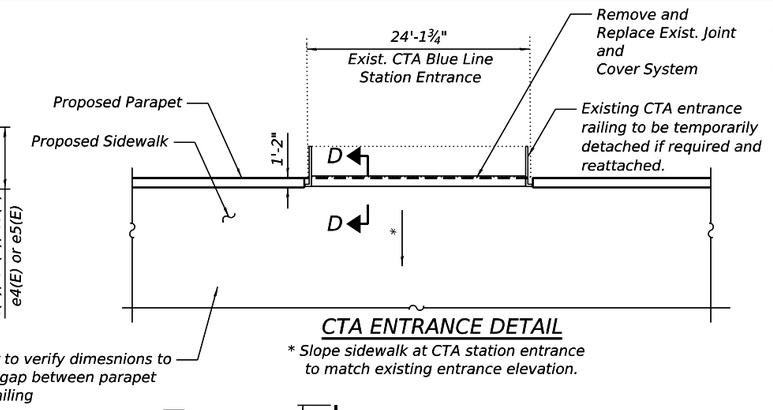


SECTION B-B

(Parapet and Deck reinforcement not shown for clarity. East overhang shown in gray for clarity)

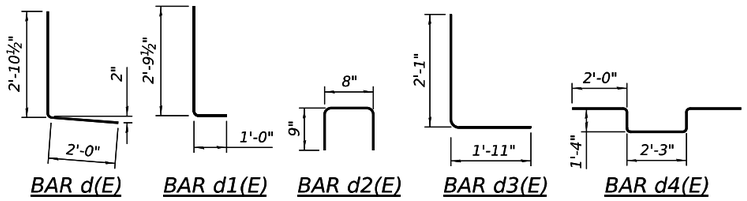
ANCHOR ROD

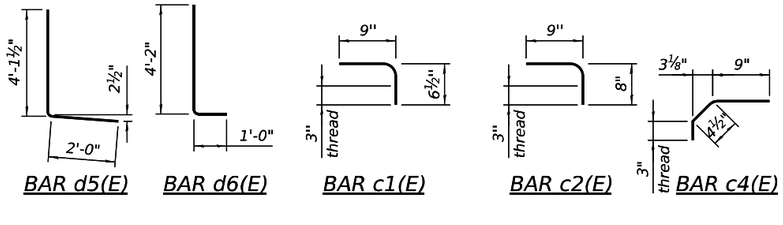
Diameter as specified for light poles. (ASTM F 1554 Grade 105) Full length hot dipped galvanized. Cost of anchor rods is included with Concrete Superstructure.

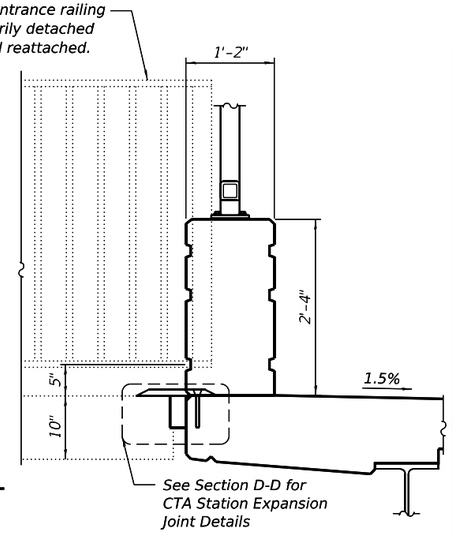


CTA ENTRANCE DETAIL

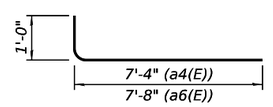
* Slope sidewalk at CTA station entrance to match existing entrance elevation.



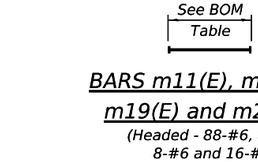




SECTION THRU CTA ENTRANCE

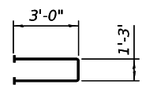


BARS a4(E) & a6(E)



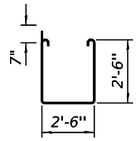
BARS m11(E), m17(E), m19(E) and m21(E)

(Headed - 88-#6, 8-#6, 8-#6 and 16-#6 terminators, respectively)

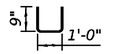


BAR s10(E)

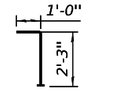
(Headed - 280-#5 terminators)



BAR s11(E)

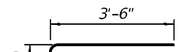


BAR u10(E)

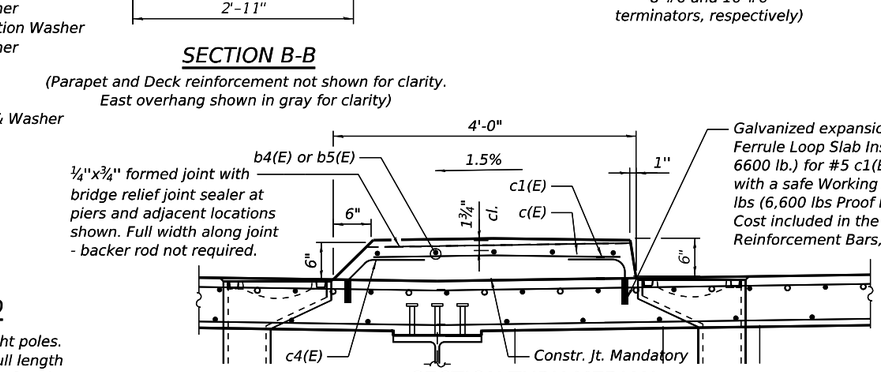


BAR v100(E)

(Headed - 178- #5 terminators)

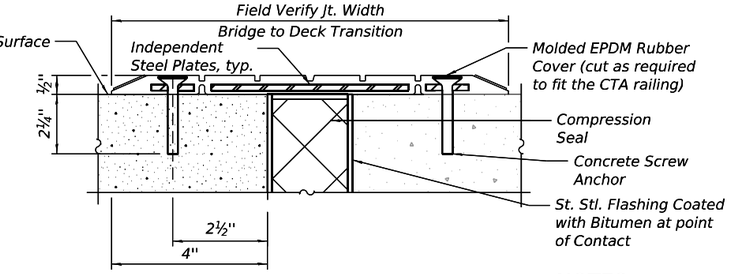


BAR x(E)



SECTION THRU MEDIAN

b(E) bars in median shall not pass thru aluminum sheet



SECTION D-D AT CTA STATION JOINT

(Contractor to submit to CTA for review and approval prior to Construction.)

SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	908	#5	48'-10"	
a1(E)	908	#5	38'-10"	
a2(E)	548	#5	17'-9"	
a3(E)	274	#5	7'-8"	
a4(E)	588	#6	8'-4"	
a5(E)	160	#5	1'-6"	
a6(E)	274	#5	8'-8"	
b(E)	1152	#5	37'-6"	
b1(E)	522	#6	23'-2"	
b3(E)	33	#5	42'-3"	
b4(E)	30	#5	38'-0"	
b5(E)	10	#5	31'-9"	
c(E)	274	#5	3'-4"	
c1(E)	274	#5	1'-4"	
c2(E)	274	#5	1'-5"	
c4(E)	274	#5	1'-5"	
d(E)	266	#4	4'-11"	
d1(E)	266	#6	3'-10"	
d2(E)	684	#4	2'-6"	
d3(E)	9	#6	4'-0"	
d4(E)	21	#6	8'-11"	
d5(E)	292	#4	6'-2"	
d6(E)	292	#6	5'-2"	
e(E)	32	#4	15'-0"	
e1(E)	128	#4	13'-9"	
e2(E)	64	#4	9'-9"	
e3(E)	8	#4	18'-7"	
e4(E)	8	#4	18'-11"	
e5(E)	48	#4	16'-9"	
e6(E)	16	#4	7'-9"	
m10(E)	4	#4	37'-4"	
m11(E)	44	#6	6'-5"	
m12(E)	44	#6	6'-5"	
m13(E)	10	#6	37'-4"	
m14(E)	4	#4	47'-4"	
m15(E)	4	#6	47'-4"	
m16(E)	4	#6	4'-10"	
m17(E)	4	#6	4'-10"	
m18(E)	4	#6	1'-8"	
m19(E)	4	#6	1'-8"	
m20(E)	8	#6	0'-11"	
m21(E)	8	#6	0'-11"	
m22(E)	224	#5	1'-6"	
s10	140	#5	7'-3"	
s11	140	#5	8'-8"	
u(E)	140	#4	2'-2"	
v100(E)	178	#5	3'-3"	
x(E)	172	#5	4'-1"	

Concrete Superstructure	Cu Yd	1,040.8
Protective Coat	Sq Yd	2,857
Reinforcement Bars, Epoxy Coated	Pound	190,540
Bridge Deck Grooving	Sq Yd	1,092

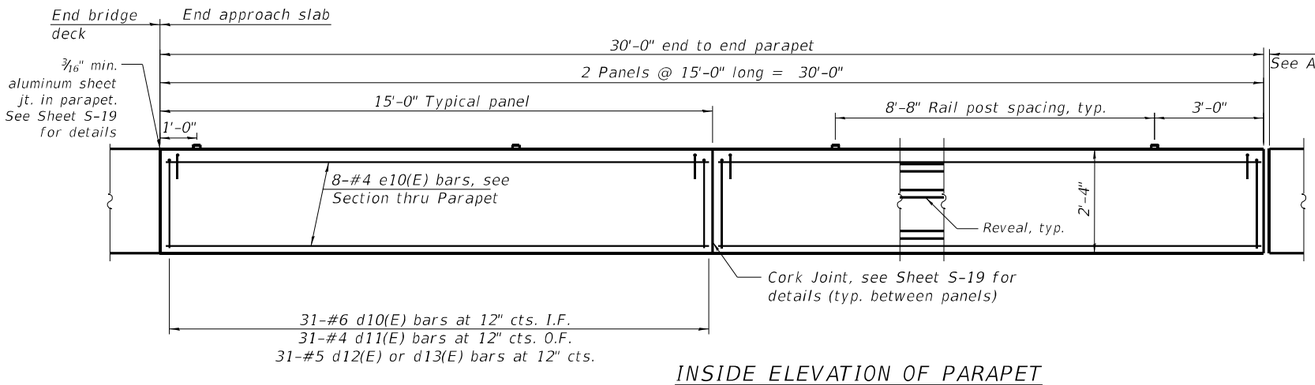
CTA ENTRANCE BILL OF MATERIAL

Removing and Replacing Expansion Joint	Foot	24

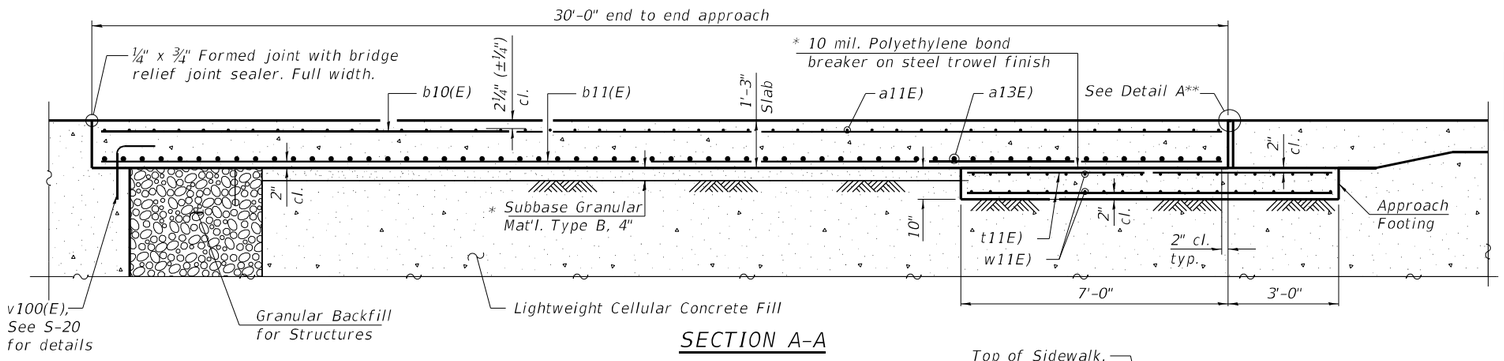
NOTES:

1. The 3/16" min. aluminum sheet shall be ASTM B 209 alloy 3003-H14 and coated with 5 mils of either bitumen paint or epoxy paint to minimize reaction with wet concrete. Cost included with Concrete Superstructure.
2. The polyurethane sealant shall be according to Article 1050.04 of the Std. Spec. and the color shall be gray.
3. Bar terminators paid for separately. See Total Bill of Material.
4. Bars indicated thus 1 x 2-#4 etc. indicates 1 line of bars with 2 lengths per line.

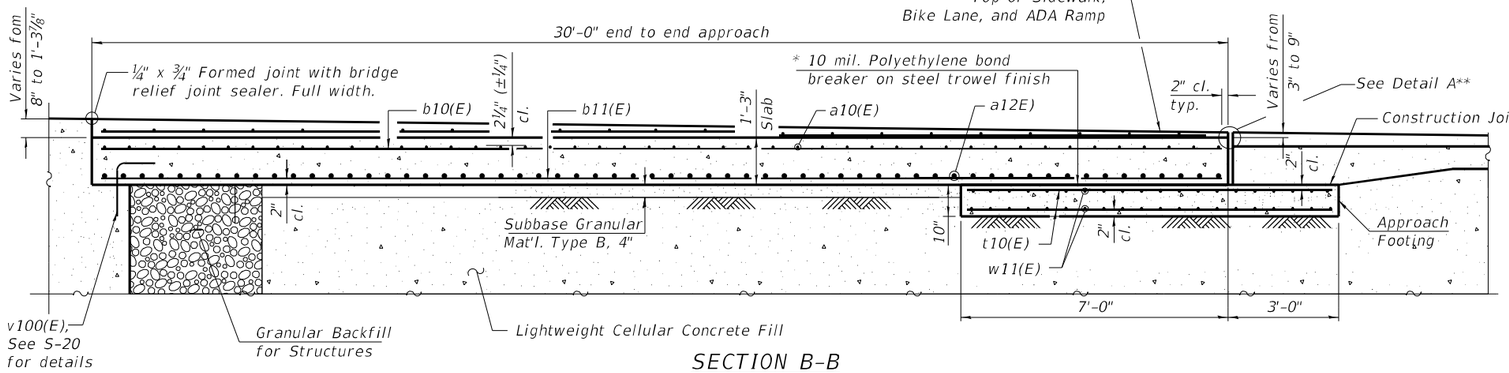
3 REVISED SHEET 1/7/2026



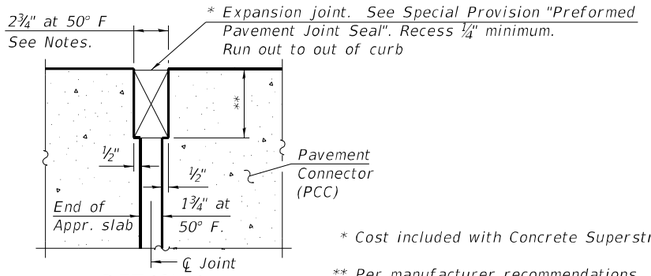
INSIDE ELEVATION OF PARAPET



SECTION A-A



SECTION B-B



DETAIL A

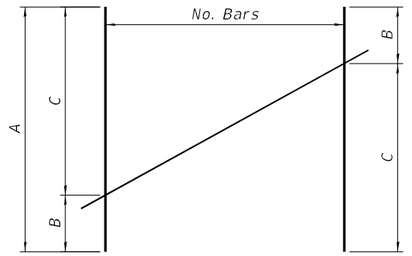
* Cost included with Concrete Superstructure (Approach Slab).

** Per manufacturer recommendations

Notes:
1. Approach slab shall be paid for as Concrete Superstructure (Approach Slab).
2. Approach footing concrete shall be paid for as Concrete Structures.
3. The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.
4. Cost of excavation for approach footing included with Concrete Structures.
5. For Backfill and drainage treatment details, see Abutment sheets (S-39 thru S-44).
6. Median, West Sidewalk, and Parapet concrete shall be paid for as Concrete Superstructure.
7. See Sheet S-20 for c4(E) bar details.

TWO APPROACHES BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a10(E)	184	#5	19'-5"	
a11(E)	184	#5	24'-6"	
a12(E)	122	#8	38'-10"	
a13(E)	122	#8	48'-11"	
b10(E)	355	#5	29'-8"	
b11(E)	426	#9	29'-8"	
b12(E)	4	#5	28'-5"	
b13(E)	1	#5	28'-2"	
b14(E)	22	#5	29'-8"	
b15(E)	5	#5	20'-1"	
b16(E)	1	#5	22'-2"	
t10(E)	340	#4	9'-9"	
w10(E)	80	#5	36'-5"	
w11(E)	80	#5	46'-5"	
c4(E)	60	#5	1'-5"	
c10(E)	31	#5	7'-9"	
c11(E)	31	#5	2'-4"	
c12(E)	122	#5	1'-4"	
c13(E)	31	#5	3'-9"	
c14(E)	31	#5	6'-0"	
c15(E)	29	#5	13'-9"	
c16(E)	12	#5	30'-7"	
c17(E)	21	#5	8'-9"	
c18(E)	31	#5	8'-11"	
c19(E)	31	#5	11'-11"	
c20(E)	31	#5	17'-11"	
d10(E)	124	#6	3'-5"	
d11(E)	124	#4	5'-1"	
d12(E)	62	#5	2'-2"	
d13(E)	62	#5	3'-10"	
e10(E)	32	#4	29'-9"	
Concrete Structures		Cu. Yd.	51.5	
Concrete Superstructure		Cu. Yd.	28.6	
Bridge Deck Grooving		Sq. Yd.	240	
Protective Coat		Sq. Yd.	618	
Concrete Superstructure (Approach Slab)		Cu. Yd.	251.0	
Reinforcement Bars, Epoxy Coated		Pound	106,390	



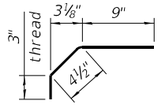
FIELD CUTTING DIAGRAM

Order bars full length. Cut as shown

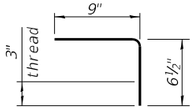
Bar	No.	A	B	C
b15(E)	6	20'-1"	1'-0"	19'-1"
c14(E)	29	6'-0"	2'-3"	3'-9"
c16(E)	21	30'-7"	13'-8"	16'-11"

MINIMUM BAR LAP

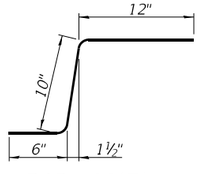
#5 bar = 3'-0"
#6 bar = 4'-2"
#8 bar = 6'-11"



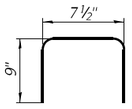
BAR c4(E)



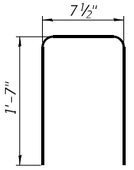
BAR c12(E)



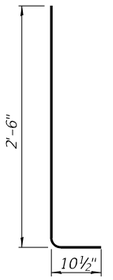
BAR c11(E)



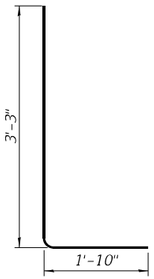
BAR d12(E)



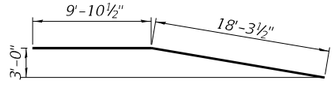
BAR d13(E)



BAR d10(E)



BAR d11(E)



BAR b13(E)

3 REVISED SHEET 1/7/2026

MODEL: Default
FILE NAME: P:\10-IL\14411-IDOT - Sacramento and Paulina over I-290\Work\CADD\Paulina - Contract 62K64\CADD_Sheets\StructuralD162K64-016098-027-ApproachSlabDetails5.dgn
10/9/2025 4:35:34 PM

COLLINS ENGINEERS INC.

USER NAME =	DESIGNED - MR	REVISED 3 - 01/06/2026	
	CHECKED - EKM	REVISED -	
PLOT SCALE =	DRAWN - DR	REVISED -	
PLOT DATE =	CHECKED - EKM	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE APPROACH SLAB DETAILS
STRUCTURE NO. 016-0098
SHEET S-27 OF S-56 SHEETS

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2019-191-B-R	COOK	265	193
		CONTRACT NO. 62K64		
	ILLINOIS FED. AID PROJECT			