CODE NO.	ITEM	UNIT	CITY OF BLUE ISLAND 0028	FPDCC 0028	TOTAL QUANTITY 0028
50200100	STRUCTURE EXCAVATION	CU YD	43	43	86
50200300	COFFERDAM EXCAVATION	CU YD	41	41	82
50300225	CONCRETE STRUCTURES	CU YD	48.2	48.2	96.4
50201101	COFFERDAM (TYPE 1) (LOCATION-1)	EACH	1	0	1
50300255	CONCRETE SUPERSTRUCTURE	CU YD	6.4	6.4	12.8
50201102	COFFERDAM (TYPE 1) (LOCATION-2)	EACH	0	1	1
50300300	PROTECTIVE COAT	SQ YD	237.5	237.5	475
50800105	REINFORCEMENT BARS	POUND	1190	1190	2,380
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	13075	13075	26,150
* 50901760	PIPE HANDRAIL	FOOT	69	0	69
51100100	SLOPE WALL 4 INCH	SQ YD	282	0	282
51603000	DRILLED SHAFT IN SOIL	CU YD	25.2	25.2	50.4
51604000	DRILLED SHAFT IN ROCK	CU YD	4.7	4.7	9.4
52000110	PREFORMED JOINT STRIP SEAL	FOOT	25	25	50
542A0217	PIPE CULVERTS, CLASS A, TYPE 1 12"	FOOT	61	18	79
542A0220	PIPE CULVERTS, CLASS A, TYPE 1 15"	FOOT	0	17	17
542A0226	PIPE CULVERTS, CLASS A, TYPE 1 21"	FOOT	0	20	20
54213657	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	EACH	6	2	8
54213660	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15"	EACH	0	2	2
54213666	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 21"	EACH	0	2	2
58700300	CONCRETE SEALER	SQ FT	585	585	1,170
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	18	18	36
60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	0	394	394

CODE NO.	ITEM	UNIT	CITY OF BLUE ISLAND 0028	FPDCC 0028	TOTAL QUANTITY 0028
* 66400305	CHAIN LINK FENCE, 6'	FOOT	0	1649	1,649
* 66400505	CHAIN LINK FENCE, 8'	FOOT	0	920	920
67000500	ENGINEER'S FIELD OFFICE, TYPE B	CAL MO	9	9	18
67100100	MOBILIZATION	LSUM	0.5	0.5	1
* 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	75	225	300
* 66900450	SPECIAL WASTE PLANS AND REPORTS	LSUM	0.25	0.75	1
* 66900530	SOIL DISPOSAL ANALYSIS	EACH	1	1	2
70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	LSUM	0	1	1
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	LSUM	0	1	1
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	0	15	15
72000100	SIGN PANEL - TYPE 1	SQ FT	0	20	20
72400500	RELOCATE SIGN PANEL ASSEMBLY - TYPE A	EACH	0	1	1
72900100	METAL POST - TYPE A	FOOT	0	20	20
72900200	METAL POST - TYPE B	FOOT	0	64	64
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	0	629	629
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	0	83	83
* 78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	0	170	170
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	0	135	135
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	2506	4411	6,917
* 78001150	PAINT PAVEMENT MARKING - LINE 12"	FOOT	0	10	10

* SPECIALTY ITEMS

FILE NAME = P:\Blue Island_25367145_Cal-SagTrail\Phase 2\Roadway\BlueIslandEast\General\S00_Cal-Sag_BlueIE.dgn

AECOM
303 East Wacker Drive, Suite 1400, Chicago, IL 60601
T 1-312-373-7700 F 1-312-373-6800

USER NAME = ken_moy	DESIGNED - KLM	REVISED - △ 10/19/2016	
	DRAWN - KLM	REVISED -	
PLOT SCALE = 20.0000 ' / in.	CHECKED - BMC	REVISED -	
PLOT DATE = 8/24/2016 1:31:21 PM	DATE - AUGUST 5, 2016	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CAL-SAG GREENWAY TRAIL (BLUE ISLAND EAST SEGMENT)
SUMMARY OF QUANTITIES

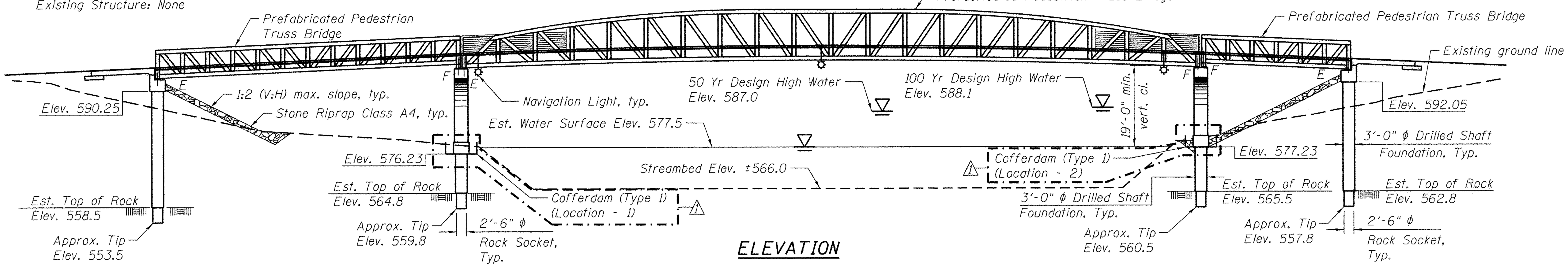
SHEET NO. 2 OF 3 SHEETS | STA. | TO STA.

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
08-00178-02-BT	COOK	64	4
	CONTRACT NO. 61C12		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT	

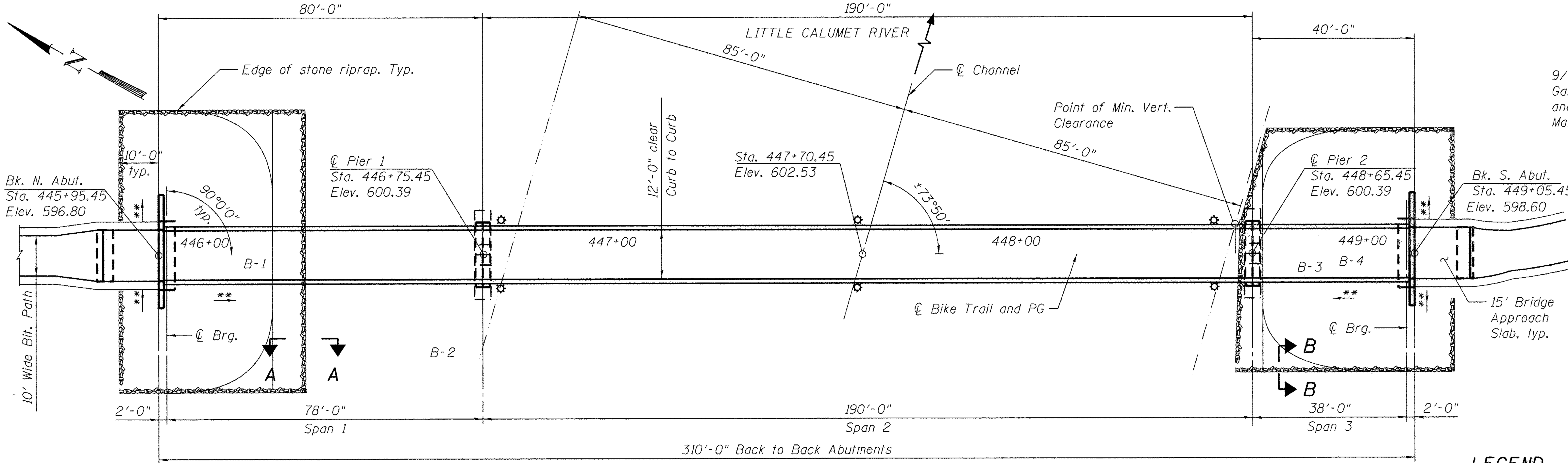
Benchmark: Nail at centerline-centerline of Halsted Street and Marina entrance. Elevation: 597.31

Existing Structure: None

See Electrical Plans for other details of navigational lights. Cost of navigation lights, conduit, junction boxes and associated items is included with electrical pay items.

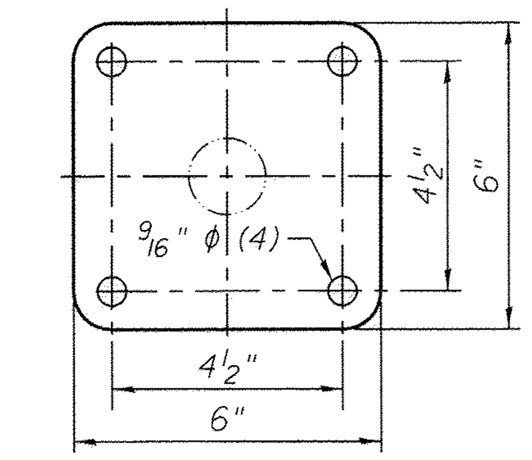


ELEVATION

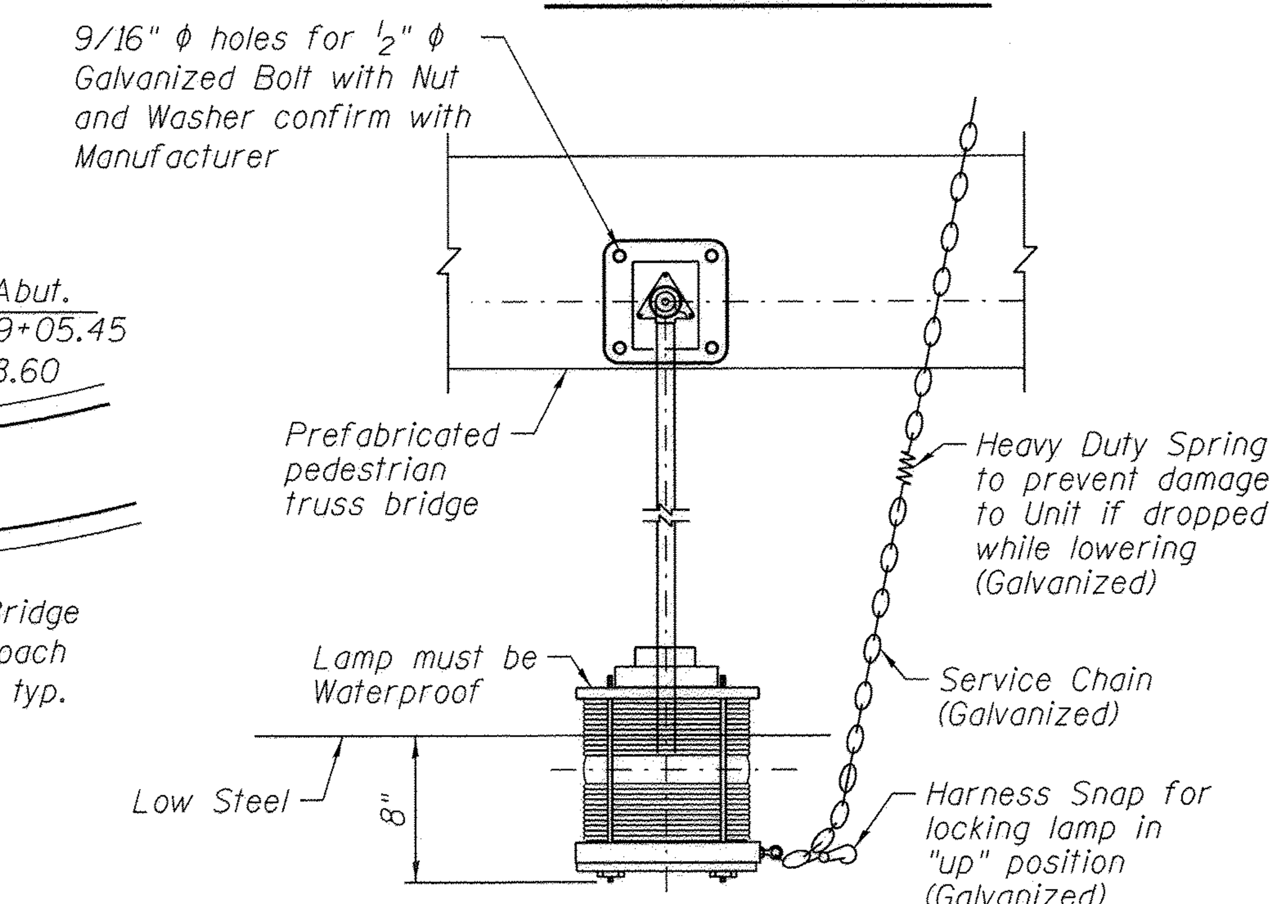


PLAN

INDEX OF SHEETS



MOUNTING DETAIL FOR NAVIGATION LIGHT



NAVIGATION LIGHT MOUNTING ELEVATION

LEGEND

Soil Boring

** 1:2 (V:H) max. slope

DESIGN SPECIFICATIONS

2012 AASHTO LRFD Bridge Design Specifications, 7th Edition

2009 AASHTO LRFD Guide Specifications for the Design of Pedestrian Bridges

LOADING H10 & PEDESTRIAN

Vehicle: H-10 Truck (20,000 lb. Vehicle)
Pedestrian: 90 psf
(No allowance for future wearing surface)

DESIGN STRESSES

FIELD UNITS

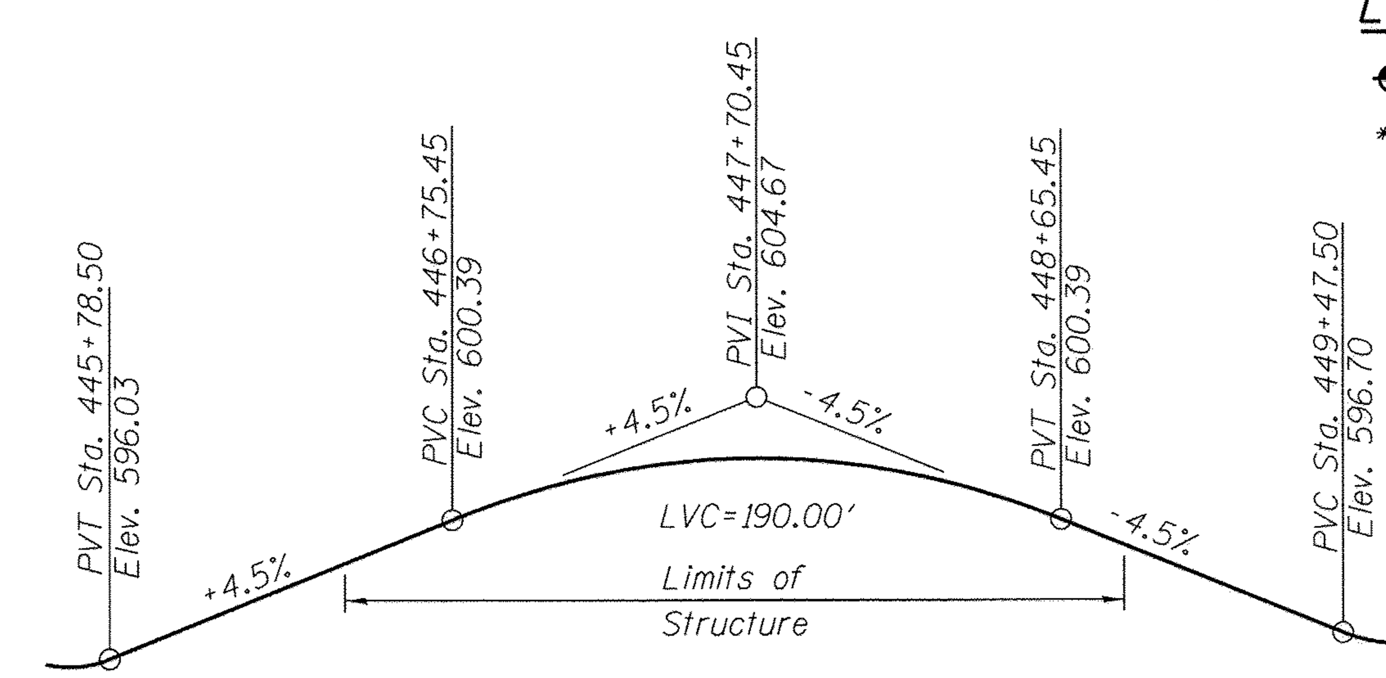
f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)
fy = 50,000 psi (M270 Grade 50W) - Truss

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. (S_{D1}) = 0.038g
Design Spectral Acceleration at 0.2 sec. (S_{DS}) = 0.095g
Soil Site Class = C

DESIGN SCOUR ELEVATION TABLE

Design Scour Elevations (ft.)			
N. Abut.	Pier 1	Pier 2	S. Abut.
581.0	565.8	565.5	582.0



PROFILE GRADE

WATERWAY INFORMATION

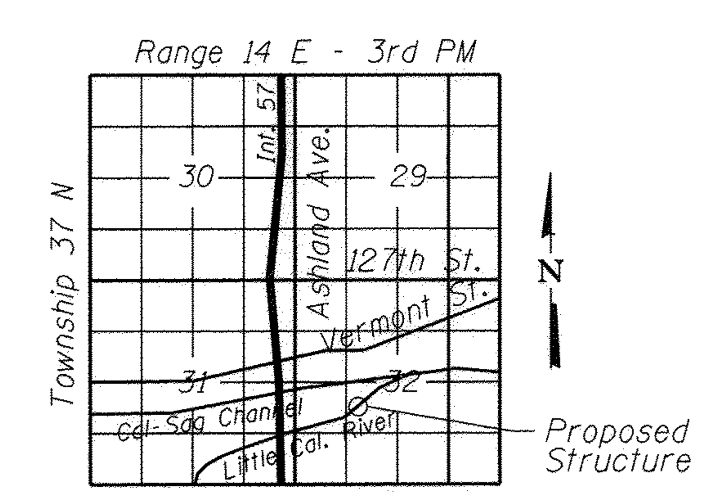
Drainage Area = 291 sq. mi. Low Grade Elev. 596.3 @ Sta. 448+68

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Opening Sq. Ft. Prop.	Nat. H.W.E.	Head - Ft. Exist.	Head - Ft. Prop.	Headwater El. Exist.	Headwater El. Prop.
Design	50	9,000	2,405	2,405	587.0	0.0	0.0	587.0	587.0
Base	100	10,559	2,750	2,750	588.1	0.0	0.0	588.1	588.1
Overtopping	*	*	*	*	*	*	*	*	*
Max. Calc.	500	*	*	*	*	0.0	0.0	*	*

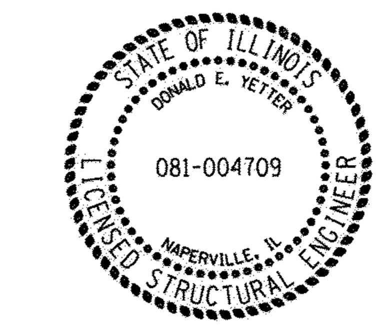
* No Information Available

NOTES

1. For Sections A-A and B-B see sheet S-2.
2. Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.



LOCATION SKETCH



Donald E. Yetter 10/19/2016

DONALD E. YETTER DATE
LICENSED STRUCTURAL ENGINEER
STATE OF ILLINOIS 081-004709
EXPIRES 11/30/2016

GENERAL PLAN AND ELEVATION
CAL-SAG GREENWAY OVER LITTLE CALUMET RIVER
PUBLIC WATER
SECTION 08-00178-02-BT
COOK COUNTY
STATION 447+70.45

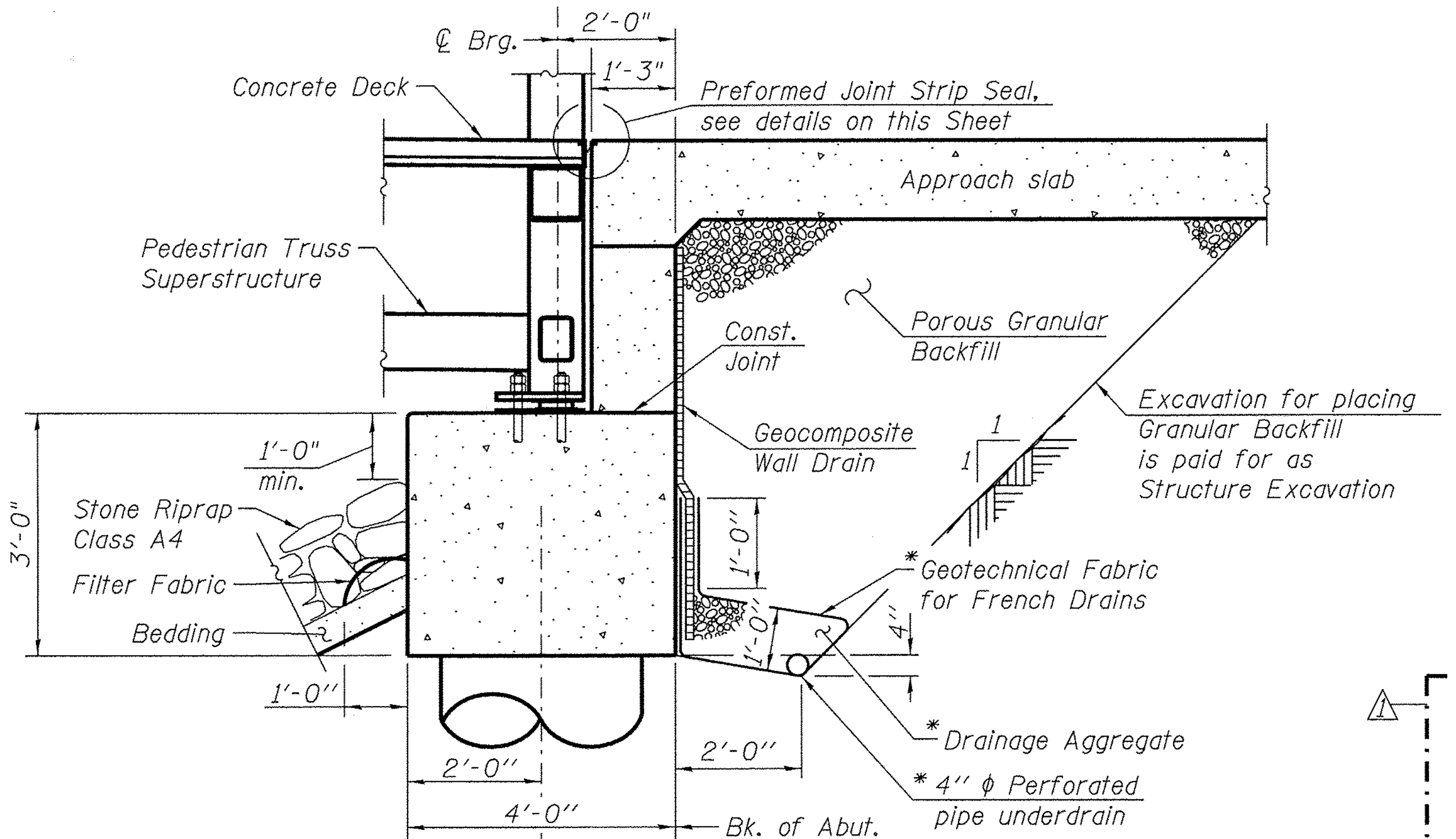
AECOM
303 East Wacker Drive, Suite 1400, Chicago, IL 60601
T 1-312-373-7700 F 1-312-373-6800

USER NAME =	DESIGNED - MBQ	REVISED	△ 10/19/2016 CJG
	CHECKED - NPP	REVISED	
PLOT SCALE =	DRAWN - MBQ	REVISED	
PLOT DATE = 016	CHECKED - NPP	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LITTLE CALUMET RIVER PEDESTRIAN BRIDGE
GENERAL PLAN AND ELEVATION
SHEET NO. S-1 OF S-8 SHEETS

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
08-00178-02-BT	COOK	64	29
	CONTRACT NO. 61C12		
	ILLINOIS FED. AID PROJECT		

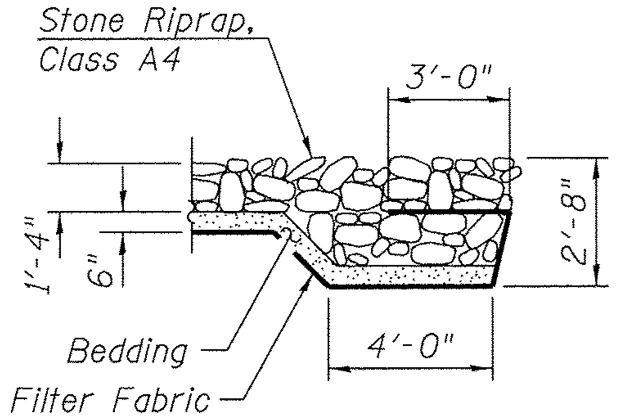


* Included in the cost for Pipe Underdrains for Structures 4".

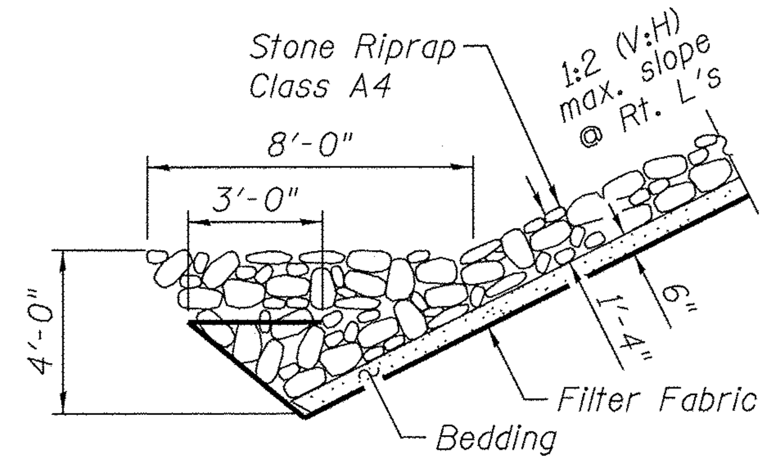
SECTION THRU ABUTMENT

(Horiz. dim. @ Rt. L's)

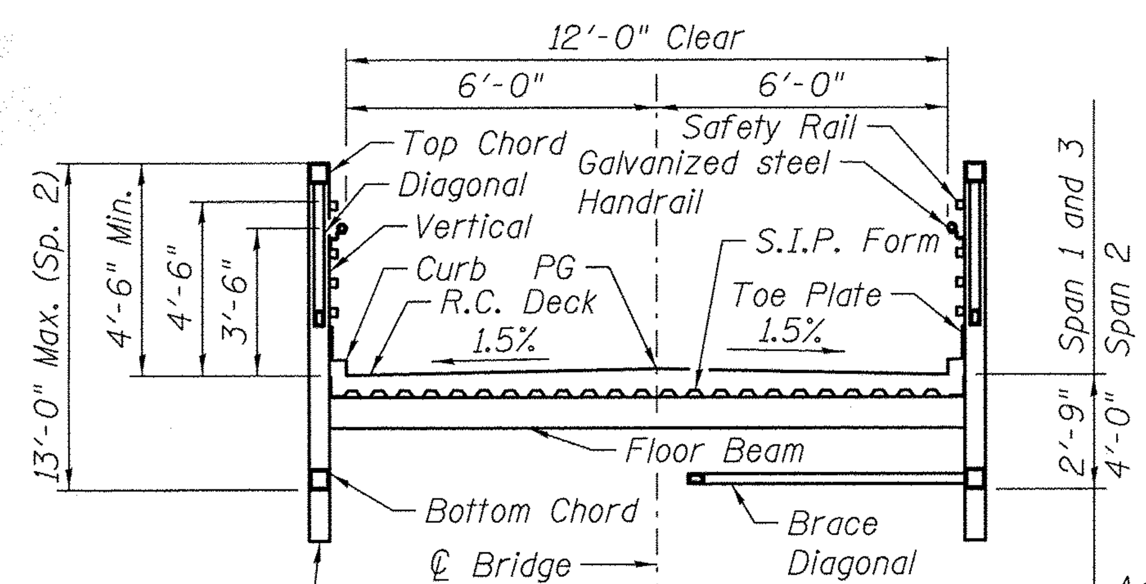
Note:
All Drainage System components shall extend to 2'-0" from the end of each wingwall except an outlet pipe shall extend until intersecting with the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101). Concrete headwall shall be included in the cost of Pipe Underdrains for Structures 4".



SECTION B-B



SECTION A-A

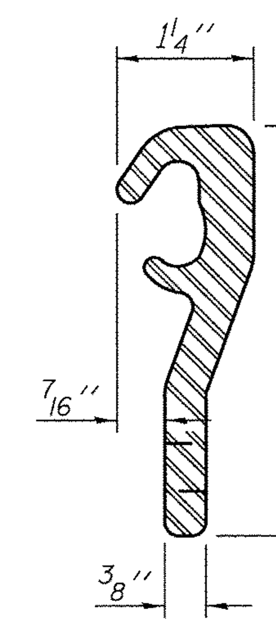


Extend end verticals at Piers 1 & 2 for Spans 1 & 3 (typ.)

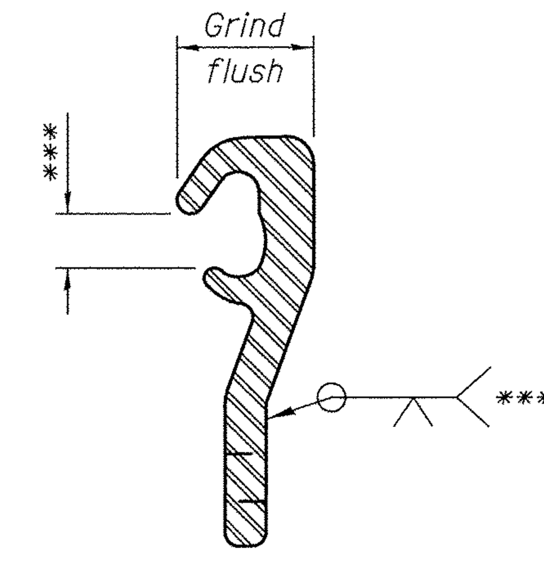
Assumed Structure depth from top of deck at edge to low steel

SECTION THRU TRUSS

Note: Structure depths shown are subject to refinement per Truss Manufacturer.

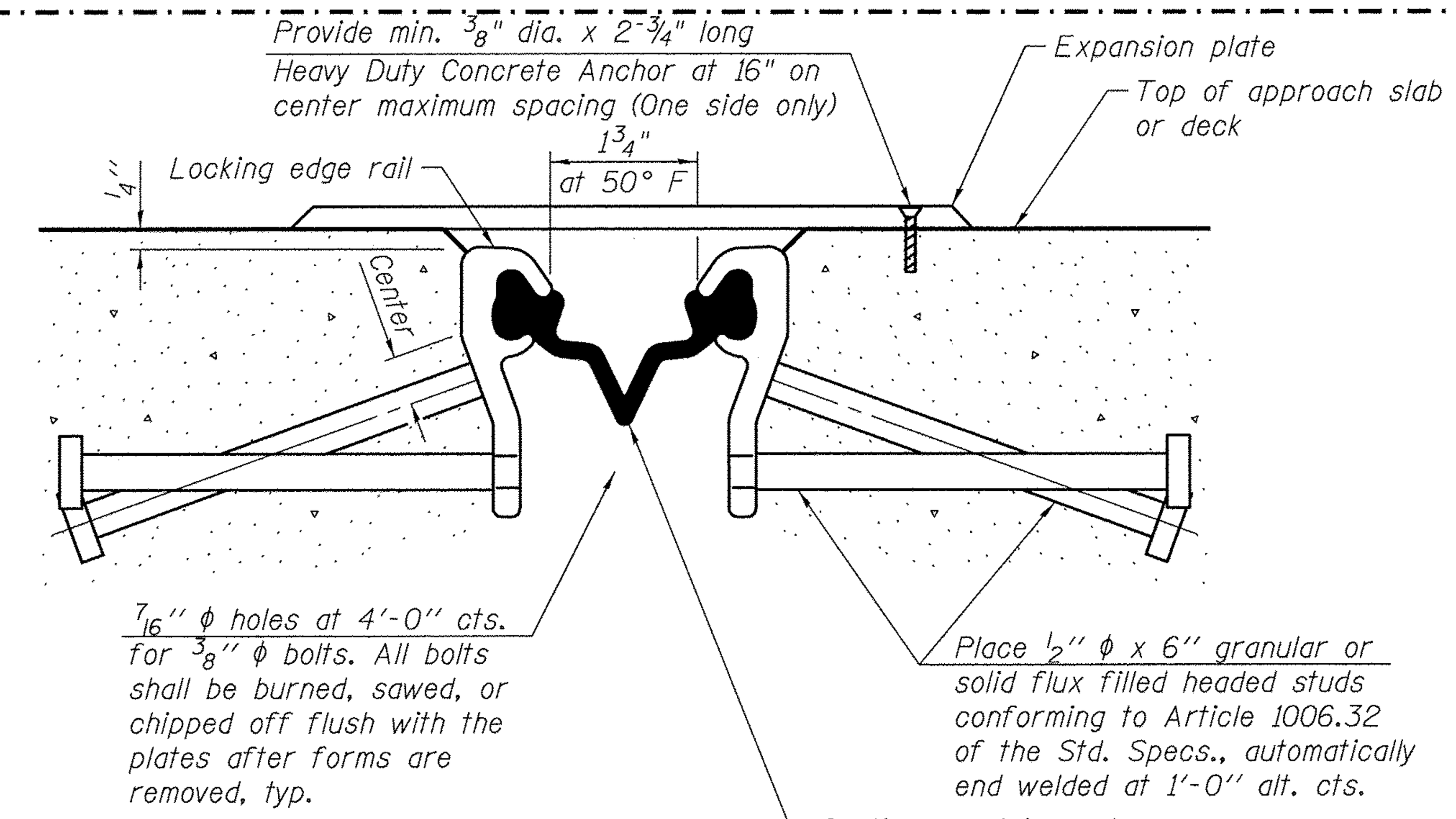


LOCKING EDGE RAIL



*** Omit weld at seal opening.

LOCKING EDGE RAIL SPLICE



SECTION THRU STRIP SEAL JOINT

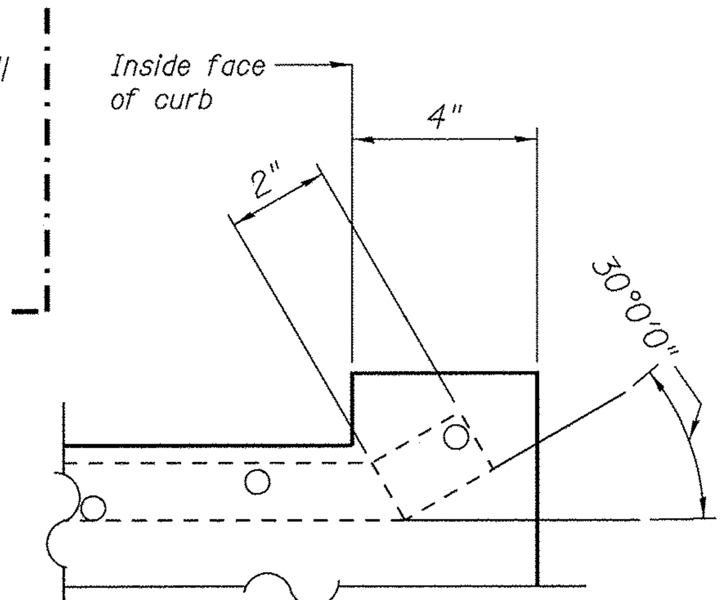
Place at each deck joint.

Strip Seal Notes:
The strip seal shall be made continuous and shall have a minimum thickness of ¼". The configuration of the strip seal shall match the configuration of the Locking Edge Rails.
The height and thickness of the Locking Edge Rails shown are minimum dimensions. The actual configuration of the Locking Edge Rails and matching strip seal may vary from manufacturer to manufacturer. Flanged edge rails will not be allowed.
The inside of the Locking Edge Rail groove shall be free of weld residue. Locking Edge Rails may be spliced at slope discontinuities.
The manufacturer's recommended installation methods shall be followed.
Minimum thickness ½" for Expansion Plate.

TRUSS REACTION TABLE (UNFACTORED)

Loading Type	P (Kips) Span 1 & Span 3	P (Kips) Span 2	H (Kips) Span 1 & Span 3	H (Kips) Span 2
Dead Load	24.1	98.8	-	-
Uniform Live Load	22.0	51.3	-	-
Vehicle Load	10.0	10.0	-	-
Wind Load	±3.0	±25.4	9.6	44.9

Loads are provided by a fabricator and are for reference only
P = Vertical Load at Each Bearing
H = Horizontal Load at Each Footing



EXPANSION JOINT AT CURB

(Showing plate)
(N.T.S.)

GENERAL NOTES

1. Reinforcement bars designated (E) shall be epoxy coated.
2. The embankment configuration shown shall be the minimum that must be placed and compacted prior to construction of the abutments.
3. Concrete Sealer shall be applied to the designated areas of the abutments.
4. The Prefabricated Pedestrian Truss shall not be painted.
5. All structural steel shall be AASHTO M 270 Grade 50W (except expansion joints which shall be AASHTO M 270 Grade 50).
6. No field welding is permitted except as specified in the contract documents.
7. Protective Coat shall be applied to both the approach slabs and the pedestrian truss superstructure reinforced concrete deck.
8. All structural steel and exposed surfaces of bearings within 10 feet each way from the deck joints shall be painted as specified in Section 506 of the Standard Specifications.

PREFABRICATED TRUSS

1. The substructure is designed per AASHTO LRFD and based on the assumed truss loads given in the Truss Reaction table.
2. It is the intent of these plans to construct truss superstructures that mimic, to the extent possible, the adjacent camelback truss bridges on the Calumet Sag Channel and Little Calumet River. Truss top chord profile is to resemble that shown in the Elevation view on the General Plan and Elevation Sheet. Curved and/or chorded segments may be used to achieve the desired effect.
3. Truss Manufacturer shall camber the truss as necessary to provide allowance for dead load deflection.
4. Bridge bearing seat elevations and ℄ bearing locations are subject to revision based on the approved pedestrian truss superstructure shop drawings. Contractor shall verify all dimensions and elevations with final approved shop drawings.
5. Truss manufacturer shall provide the reinforced concrete deck design. Concrete deck to utilize stay-in-place galvanized forms. Reinforcement shall be epoxy coated. Contractor shall place the concrete deck after truss is set. Safety rail shall be M270 Grade 50W and handrail shall be galvanized steel. Cost included with "Pedestrian Truss Superstructure". Protective coat shall be paid for under pay item "Protective Coat".
6. The contractor shall submit shop drawings for attachment of navigation light, conduit, junction boxes and other associated electrical items to prefabricated truss bridge for approval.

TOTAL BILL OF MATERIAL

	ITEM	UNIT	SUPER	SUB	TOTAL
	Porous Granular Backfill	Cu. Yd.	-	54.0	54.0
	Stone Riprap, Class A4	Sq. Yd.	-	1,019	1,019
	Filter Fabric	Sq. Yd.	-	1,019	1,019
	Structure Excavation	Cu. Yd.	-	86.0	86.0
	Concrete Structures	Cu. Yd.	3.2	93.2	96.4
	Concrete Superstructure	Cu. Yd.	12.8	-	12.8
	Protective Coat	Sq. Yd.	475	-	475
	Reinforcement Bars	Pound	-	2,380	2,380
	Reinforcement Bars, Epoxy Coated	Pound	2,150	24,000	26,150
	Drilled Shaft in Soil	Cu. Yd.	-	50.4	50.4
	Drilled Shaft in Rock	Cu. Yd.	-	9.4	9.4
	Preformed Joint Strip Seal	Foot	50.0	-	50.0
	Concrete Sealer	Sq. Ft.	-	1,170	1,170
	Geocomposite Wall Drain	Sq. Yd.	-	36	36
**	Pedestrian Truss Superstructure	Sq. Ft.	3,720	-	3,720
**	Pipe Underdrains for Structures 4"	Foot	-	88	88
	Cofferdam (Type 1) (Location - 1)	Each	-	1	1
	Cofferdam (Type 1) (Location - 2)	Each	-	1	1
	Cofferdam Excavation	Cu. Yd.	-	82	82

** Special Provision