

^{*}Included in the cost of Pipe Underdrains for Structures.

Note:

All drainage system components shall extend parallel to the abutment back wall until they intersect the wingwalls or 2'-0" from the end of the wingwalls when the wings are parallel to the abutment. The pipe shall extend under the wingwall, if necessary, until intersecting the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601.00).

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

Fasteners shall be AASHTO M164 Type 1, mechanically galvanized bolts. Bolts 3_4 in. $\phi,$ holes $^{15}\!_{6}$ in. $\phi,$ unless otherwise noted.

Calculated weight of Structural Steel = 4,241,110 lbs. AASHTO M 270 Grade 50. Calculated weight of Structural Steel = 138,540 lbs. AASHTO M 270 Grade 36. No field weight is permitted except as specified in the contract documents. Reinforcement bars shall conform to the requirements of ASTM A 706 GR. 60. See Special Provisions.

Reinforcement bars designated (E) shall be epoxy coated.

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.

Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of $\frac{1}{8}$ in. (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.

Concrete sealer shall be applied to the designated areas of the abutments. The existing structural steel coating contains lead. The contractor shall take appropriate precautions to deal with the presence of lead on this project.

The Inorganic Zinc Rich Primer / Acrylic / Acrylic Paint System shall be used for shop and field painting of new structural steel except where otherwise noted. The color of the final finish coat for all interior steel surfaces shall be gray, Munsell No. 5B 7/1. The color of the final finish coat for the exterior and bottom flange of the fascia beams shall be Gray, Munsell No. 5B 7/1. See special Provision for "Cleaning and Painting New Metal Structures".

Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.

Slip forming of the parapets is not allowed.

The Contractor is alerted that the camber and dead load deflection values shown within the drawings were developed based on the deck pouring sequence shown on sheet 16 of 48. Any deviation from this pouring sequence may require changes to the camber, dimensions, and elevations derived from the dead load deflections. If the Contractor elects to vary from the pouring sequence shown on the contract documents, an evaluation of the structure shall be performed by an Illinois Licensed Structural Engineer retained by the Contractor. Calculations and any revised details shall be submitted to the Engineer for review and approval.

The erection of the structural steel shall be accomplished by a steel erection contractor or sub-contractor certified as an Advanced Certified Steel Erector (ACSE) by AISC. See special provision for "Erection of Complex Steel Structures".



Concrete Superstruc Bridge Deck Groovin Protective Coat Furnishing and Erec Stud Shear Connecto Reinforcement Bars

Reinforcement Bars, Bar Splicers Slope Wall 4 Inch Bituminous Coated A Furnishing Metal She

Driving Piles Test Pile Metal Shell Name Plates Drilled Shaft in Soil Drilled Shaft in Rock Finger Plate Expans, Fabric Reinforced E

Elastomeric Bearing Anchor Bolts, I'2'' Concrete Sealer Geocomposite Wall Dr Pipe Underdrains for Drainage Scuppers, L High Load Multi-Rota Fixed - 800k

High Load Multi-Rota Fixed - 1250k Mechanical Splicers Drainage System



NAME PLATE See Std. 515001



(On all 4 sides of Piers 1 & 2)



(Along & Metro East Levee Trial)



(2'-0" Left and 2'-0" Right of Q F.A.P.

WATERWAY INFORMATION

· · · · · · · · · · · · · · · · · · ·	Drainage Are	Drainage Area = 38.5			Low Grade Elev. 451.58 @ Sta. 277+06					
DESIGNED EML	Flood	Freq.	Q	Opening	Sq. Ft.	Nat.	Head	- Ft.	Headwo	oter El.
DESIGNED LML		Yr.	C.F.S.	Exist.	Prop.	H.W.E.	Exist.	Prop.	Exist.	Prop.
CHECKED KAK		10	12,000	3,571	3,610	414.33	0.03	0.01	414.36	414.34
	Design	50	17,700	3,728	3,767	414.88	0.04	0.00	414.92	414.88
DRAWN EML	Base	100	19,500	3,786	3,825	415.08	0.04	0.00	415.12	415.08
CHECKED JJD	Overtopping	N/A								
	Max. Calc.	500	21,800	3,867	3,906	415.36	0.04	0.00	415.40	415.36
	Waterway info	rmation	includes	10 year	Mississip	pi River	backwa	ater.		



TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
bankment, Special	Cu. Yd.		372	372
A5	Sq. Yd.		1,115	1,115
	Sq. Yd.		1,553	1,553
Structures	Each			1
n	Cu. Yd.		861	861
	Cu. Yd.		916.0	916.0
sture	Cu. Yd.	2,057.4		2,057.4
)g	Sq. Yd.	5,597		5,597
	Sq. Yd.	7,590	· .	7,590
ting Structural Steel	L Sum	1		1
ors	Each	11,760		11,760
	Pound		502,040	
, Epoxy Coated	Pound	581,030	135,020	716,050
	Each		114	114
	Sq. Yd.		46	46
ggregate Slopewall, 6''	Sq. Yd.		379	379
ell Piles 14'' x 0.312''	Foot		3,696	3,696
	Foot		3,696	3,696
ls	Each		2	2
	Each	1		1
	Cu. Yd.		1,353.8	1,353.8
k	Cu. Yd.		122.4	122.4
sion Joint, 4″	Foot	112		112
lastomeric Trough	Foot	124		124
Assembly, Type III	Each	14		14
	Each	98		98
	Sq. Ft.		2,102	2,102
rain	Sq. Yd.		139	139
r Structures 4''	Foot		166	166
DS-11	Each	18		18
ntional Bearings,	Each	7		7
ntional Bearings,	Each	14		14
	Each		792	792
	L Sum	1		1
			L	

INDEX OF SHEETS

Elev. 438.56 Elev. 438.56	1. 2 3. 4. 5 12. 13 14. 15 16. 17 18. 19. 20. 21 24. 25. 26 28. 29 30. 31 33. 34 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 48. 44. 48. 48. 48. 48. 48	Bearing Details North Abutment South Abutment Abutment Details Pier 1 Pier 2 Pier 3 Metal Shell Pile Details Bar Splicer Details
	4448.	Boring Logs

<u>GENERAL DATA</u> STRUCTURE NO. 082-0038

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.			
312	64-1VBR	ST. CLAIR	259	54			
		CONTRACT	NO. 76	882			
ILLINOIS FED. AID PROJECT							