

2.97 2.97

50 4,720

5,411

100

Design

Base

Overtopping

Max. Calc.

HORNER & SHIFRIN, INC.

CHECKED NJM

CHECKED NJM

DRAWN

487

512

487

512

486.81

487.06

570 487.63

489.78 489.7

3.31 3.31 490.37 490.3

4.19 4.19 491.82 491.82

f'_c = 5,000 psi

f'ci = 4,000 psi

270,000 psi ($\frac{1}{2}$ "\$ low lax. strands)

 $f_{si} = 201,960 \text{ psi } (\frac{1}{2})^{\prime\prime} \phi \text{ low lax. strands})$

INDEX OF SHEETS

General Plan

Stage Construction Details

Temporary Concrete Barrier

Type SM Steel Bridge Rail Side Mounted

5.-7. Superstructure Details

West Abutment

East Abutment

Abutment Concrete Removal Details

Pier Bents

Substructure Repair Details

A.P. 789 68-BR-1 MADISON . 10	-	0

SHEET NO. 1

12 SHEETS

Contract #76896

GENERAL NOTES

The minimum thickness of Bituminous overlay shall be 2" and varies as required to adjust for the new profile grade and beam camber.

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

Plan dimensions and details relative to existing structure have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field 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 the scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price for the work.

The top surface of the beams shall be finished according to Article 504.06 of the Standard Specifications except that the surface shall not be roughened by brooming. The finished surface shall be free of depressions or high spots with sharp corners, and the top edge of keys shall be rounded or chamfered a minimum of 4".

All Construction joints shall be bonded.

The cut strands at each beam end shall be given two coats of zinc dust spray or paint meeting the requirements of ASTM A 780. The zinc dust spray or paint shall be applied before corrosion appears and allowed to dry according to the manufacturer's specifications prior to another coat of zinc. A concrete sealer meeting the requirements of Section 587 of the Standard Specifications shall be applied to the exterior face and 9" in on the underside of the fascia beams. The sealer shall be applied after visible crack growth has subsided. This work shall be performed by the producer and included with the cost of the beam.

The contractor is advised that the existing Precast Prestressed Concrete Deck Beams are in a deteriated condition with reduced load carrying capacity. It is the contractor's responsibility to account for the condition of the beams when developing construction procedures for removal and replacement of the superstructure.

See sheet 2 of 12 for additional notes.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL	
Stone Riprap, Class A5	Sq. Yd.		764	764]
Filter Fabric	Sq. Yd.		764	÷ 764	1
Removal of Existing Superstructures	Each	1		1	1
Concrete Removal	Cu. Yd.		5.8	5.8	'
Concrete Structures	Cu. Yd.		13.9	13.9	
Precast Prestressed Concrete Deck Beams (17'' Depth)	Sq. Ft.	4034		4034	
Reinforcement Bars, Epoxy Coated	Pound	, , ,	1320	1320	
Steel Bridge Rail, Type SM	Foot	252		252	
Name Plates	Each	1		11	1
Waterproofing Membrane System	Sq. Yd.	462		462	
Portland Cement Mortar Fairing Course	Foot	1223		1223	
Structural Repair of Concrete (Depth Equal to or less than 5")	Sq. Ft.		173.5	173.5	
Bituminous Concrete Surface Course, Superpave, Mix "C", N7O	Ton	52		52	
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GENERAL PLAN ILLINOIS ROUTE 143 OVER SUGAR FORK CREEK F.A.P. ROUTE 789 - SECTION 68-BR-1 MADISON COUNTY STATION 98+33.25 STRUCTURE NO. 060-0150

Cric Lagemann Expires 11/30/2006