Bill Evans Dist. 8 Road Construction of CH 91 STA. 10 End of Civil

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WORK NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N.B.I. 082-0015	95-5	MACON	51	12

SHEET NO. 1 OF 51 SHEETS

FOR PROPOSAL NO. 1 | FOR CONTRACT

GENERAL NOTES

The main load carrying members of steel beams subjected to tensile stresses shall conform to the Supplemental Requirements for Notch Toughness.

The Contractor shall drive one test pile each in a permanent location for Pier 1 & Pier 2 as directed by the Engineer before ordering remainder of piles.

See Proposal for Boring Log.

All reinforcement bars shall be placed 2" clearance unless otherwise shown.

Fasteners shall be high strength bolts. Bolts 7/8" dia. holes 15/16" unless otherwise noted.

Calculated weight of Structural Steel = M-184 = 316,730 Lbs.
M-270 = 280,870 Lbs.

The Basic Lead Silica Ceramate paint system shall be used for shop and field painting of structural steel.

Field welding of construction accessories will not be permitted to the bottom flange of beams or girders nor to the top flange for a distance equal to one-tenth the span length each way from the pier supports. Field welding another areas will be permitted only when approved by the Engineer.

Anchor bolts shall be set before pouring diaphragms over supports.

Anchor bolts shall be set before pouring deck haunches over supports.

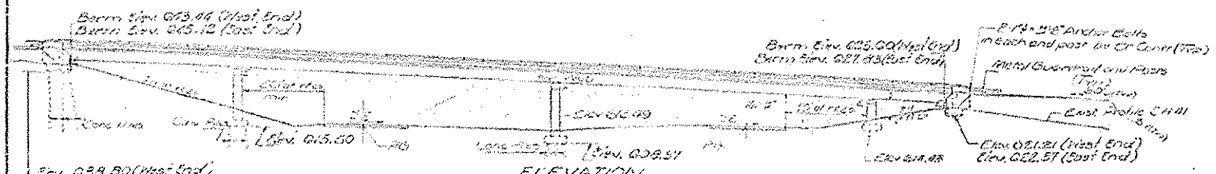
Slope wall shall be reinforced with welded wire fabric 6"x 6" mesh, weighing 56# per 100 sq ft.

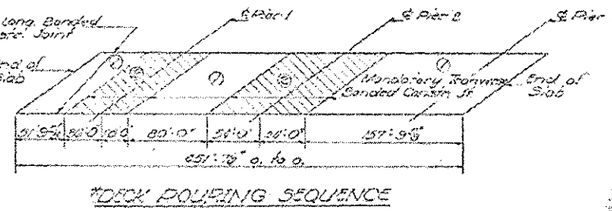
The embankment construction shown shall be the minimum embankment that must be constructed prior to construction of the abutments.

The concrete for portion above the mandatory construction joint at the top of the stub shall be constructed of Class X Concrete. Curing and appearance shall conform to the requirements of Handrail Concrete.

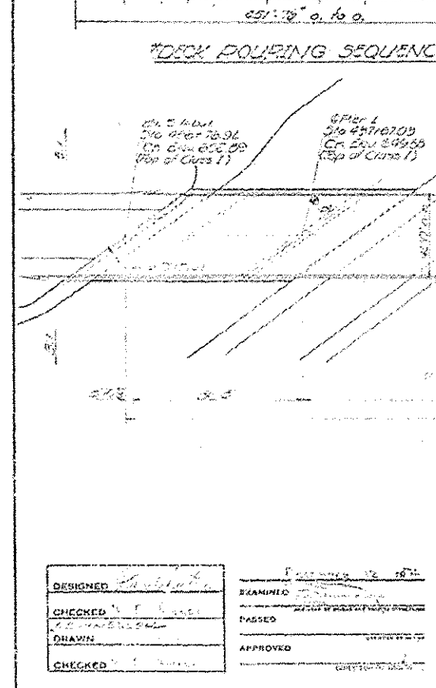
Protective Coat shall not be applied to surfaces to which Waterproofing Membrane System is applied.

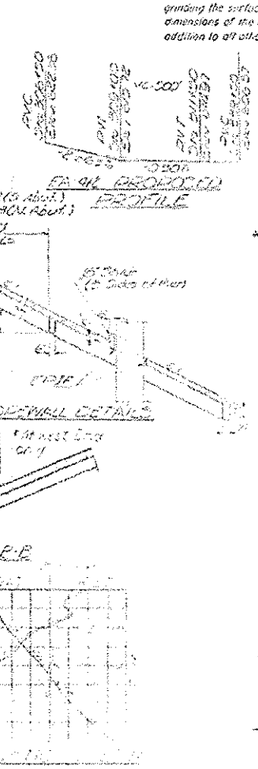
Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of ± 1/8 inch. Adjustment shall be made either by grinding the surface or by shimming for bearing. Type "B" or Pot Bearing shims, of the dimensions of the bottom bearing plate, shall be provided for each bearing in addition to all other plates or shims.





* All ① areas are to be poured before any ② areas. Areas outside the longitudinal joints will be poured in a continuous sequence after the areas within the longitudinal joints are poured. If the Contractor does not use the longitudinal joints, the pouring sequence applies for the full width of deck.





TOTAL BILL OF MATERIAL

Item	Unit	Quantity	Total	Sheet No.
Bar Cplrs, Bar Size 6	Each	167		
Structure Excavation	Cu Yds		693	6
Protective Coat	Sq Yds	5,515		
Class X Concrete	Cu Yds	1,921	2,283	7
Reinforcement, Bars	Pounds	237,400		7
Reinforcement, Bars, Epoxy Coated	Pounds	79,330		7
Structural Steel	Pounds	596,740		7
Bar Splicers, Bar Size 6	Each	167		7
Expansion Fabric	Sq Yds	215		8
Expansion Joint Seals	Feet	1,284	1,284	8
Concrete Slope Wall	Sq Yds		1,100	8
Bar Splicers, Couplers	Each		2	8
Pipe Underdrains	Feet		1	8
Steel Pile HP 14	Feet		1,120	11
Class A Concrete	Cu Yds		615	11
Reinforcement, Bars	Pounds	78,000		11
Waterproofing, Membrane System	Sq Yds	1,135		11
Bar Splicers, Couplers	Each	2		11

* See Special Provisions

DESIGN STRESSES

f'c = 3500 psi (Class X Concrete)
f'c = 4000 psi (Class A)
fy = 60,000 psi (Reinforcement)
fy = 60,000 psi (Epoxy Coated Reinforcement)
fy = 70,000 psi (Structural Steel)
w = 150 pcf (Concrete)
w = 490 pcf (Steel)

Live Load = HS-20 Truck or Lane Loading (AASHTO 3.7.3.1)

CURVE DATA

CH 91
P.I. Sta. 5+39.09
D = 5°30'00"
T = 100.04'
R = 1042.46'
L = 200.00'
E = 9.59'
e = 0.04 ft/ft
Sta. 3+39.05
Sta. 5+39.05
Normal Crown to Superelevation

DESIGNED	A. Steffanek
CHECKED	K.D. Hinkelbein
DRAWN	
CHECKED	

EXAMINED	
PASSED	
APPROVED	

STATION 10+48.08
BUILT IN BY
STATE OF ILLINOIS
CA. RT. 91 DIV. 8 SECTION
F.A. PROJECT (5)(10)
DISTRICT 8 2010

NAME PLATES

PROJECT TEMP-(5)2(10)

ORIGINAL HIGHWAY EVIDENCE
CH 91
FAI ROUTE 55
SECTION 8
MACON COUNTY
DISTRICT
CONTRACT NO. 74613
JOB NO. C-95-044-05

* D2 BRIDGE PAINTING 2013-4

FILE NAME	USER NAME = steffanek	DESIGNED -	REVISED -
c:\pw_work\pwidot\steffanek\d0336333\D274613-sht-details.dgn		DRAWN -	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
Default	PLOT DATE = 3/20/2013	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE: N/A | SHEET 1 OF 6 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
122 FAI	*	MACON	9	4
		CONTRACT NO. 74613		
		ILLINOIS FED. AID PROJECT		