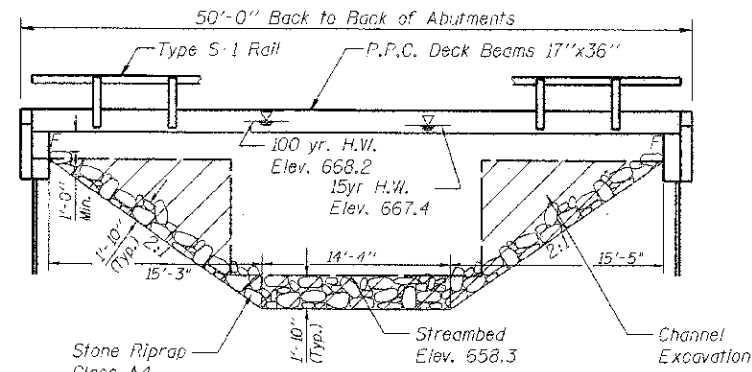


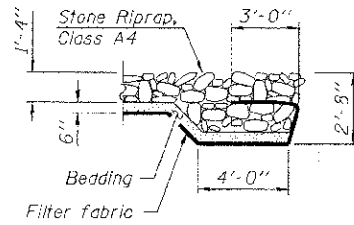
B.M. #1 - Sta. 1+93.19, 33.2' Left, Survey Spike in Power Pole, Elev. 667.59
 B.M. #2 - Sta. 5+12.20, 10.0' Right, Cul [J North End of East Hub Guard, Elev. 669.13
 B.M. #3 - Sta. 8+67.00, 19.94' Left, Survey Spike in Power Pole, Elev. 669.88

Existing Structure - Structure 092-3095 consists of a two span reinforced concrete deck on steel I-beams on timber pile abutments. The bk. to bk. of abutments length is 25' and the out-to-out width is 17.2'. The existing structure shall be completely replaced. Road closure shall be used during construction.

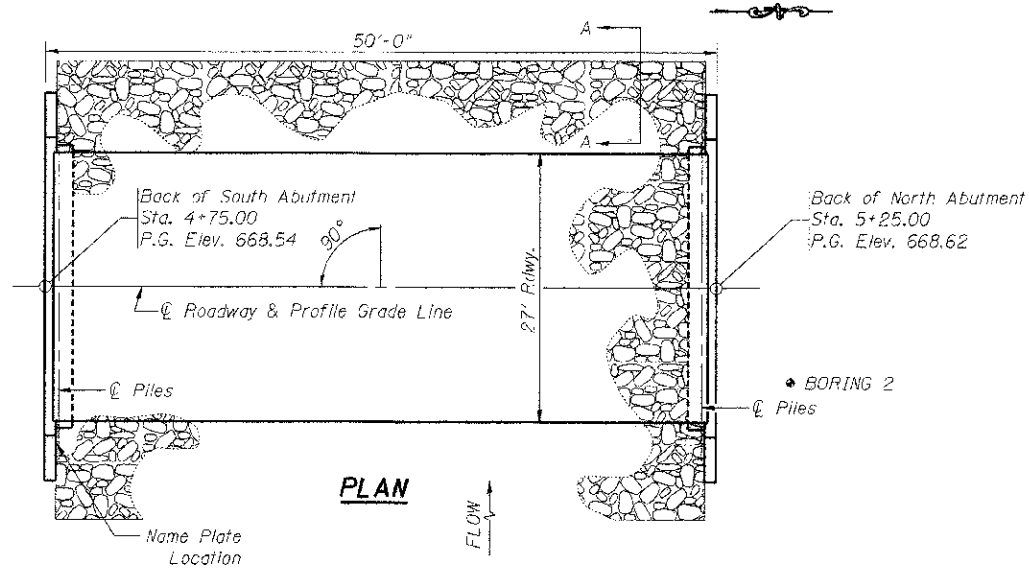
Salvage - Any material deemed salvageable by the Engineer shall be stockpiled on the R.O.W. and shall become the property of Jamaica Township. The Contractor shall dispose of all remaining material.



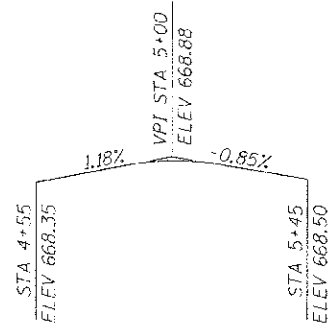
ELEVATION



SECTION A-A



PLAN



PROFILE GRADE

DESIGN SPECIFICATIONS

2007 AASHTO LRFD Bridge Design Specifications - 4th ed.

LOADING HL-93

Allow 50#/sq. ft. for future wearing surface.

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
 Design Spectral Acceleration at 1.0 sec. (S_{D1}) = 0.199
 Design Spectral Acceleration at 0.2 sec. (S_{D2}) = 0.185
 Soil Site Class = C

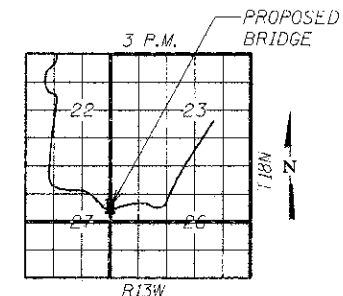
PILE DATA (2-ABUTS.)

Type	STEEL HP 10 x 42
Nominal Required Bearing	335 kips
Factored Resistance Available	184 kips
Estimated Pile Length	37' North Abt. 38' South Abt.
Number of Production Piles	10
Number of Test Piles	0

JORDAN CREEK
 BUILT 201 BY
 VERMILION COUNTY
 SFC. 05-09118-00-BR
 PROJECT NO. BROS-0183(309)
 TR 92 STA. 5+00
 STR. NO. 092-3508 LOADING HL-93

LETTERING FOR NAME PLATE

Locate Name Plate on the outside face of the Southeast Wingwall.



LOCATION SKETCH

WATERWAY INFORMATION

Drainage Area - 6.13 SQ MI		Low Grade Elev. = 667.19 @ Sta. 3+00							
Flood Yr.	0	Opening Sq. Ft.	Not.	Head - Ft.	Headwater El.				
	C.F.S.	Exist.	Prop.	H.W.E.	Exist.	Prop.			
Design	15	681	176.6	301.6	667.4	0.0	0.0	667.4	667.4
Base	100	1090	185.6	301.6	668.2	0.2	0.1	668.4	668.3
Overtopping									
Max. Calc.	500								

GENERAL NOTES

1. Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60.
2. Reinforcement bars designated (E) shall be epoxy coated.
3. Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
4. The Contractor shall drive 1 test pile at each abutment, as specified, in a permanent location as directed by the Engineer before ordering the remaining piles.

TOTAL BILL OF MATERIAL

Item	Unit	Super	Sub. Abuts.	Total
Removal of Existing Structures	Each	-	-	1
Concrete Structures	Cu. Yd.	-	17.7	17.7
Precast Prestressed Concrete Deck Beams (17" Depth)	Sq. Ft.	1308	-	1308
Steel Bridge Piling, Type S-1	Foot	97	-	97
Reinforcement Bars, Epoxy Coated	Pound	-	3530	3530
Furnishing Steel Piles HP 10x42	Foot	-	300	300
Driving Piles	Foot	-	300	300
Name Plates	Each	1	-	1
Concrete Cut-off Wall	Cu. Yd.	-	6.2	6.2
Structure Excavation	Cu. Yd.	-	64.8	64.8
Stone Riprap Class A4	Ton	-	162	162
Channel Excavation	Cu. Yd.	-	56.5	56.5
Controlled Low-Strength Material	Cu. Yd.	-	36.3	36.3
Filter Fabric	Sq. Yd.	-	270	270
Test Piles Steel HP 10x42	Each	-	2	2
Pile Shoes	Each	-	10	10

INDEX OF SHEETS

1. General Plan & Elevation
2. Superstructure
3. Superstructure Details
4. Steel Piling
5. Abutment Details
6. Pile Details
7. Boring Logs



 Daniel Feuerborn
 License Expires 11-30-2012
 Date

I certify that to the best of knowledge, information and belief, this bridge design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with requirements of the current AASHTO Standard Specifications for Highway Bridges.

GENERAL PLAN & ELEVATION
TOWNSHIP ROUTE 92 OVER JORDAN CREEK
SEC. 05-09118-00-BR
VERMILION COUNTY
STATION 5+00.00
STRUCTURE NO. 092-3508



USER NAME = #USER#
 PLOT SCALE = 0.0033' / IN.
 PLOT DATE = 6/11/2012

DESIGNED - DF	REVISED -
CHECKED -	REVISED -
DRAWN - JEM, ADG	REVISED -
CHECKED - DF	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TWP. RTE.	SECTION	COUNTY	TOTAL SHEETS	NO.
92	05-09118-00-BR	VERMILION	15	06
CONTRACT NO. 91463			ILLINOIS FED. AID PROJECT	

PROVIDED DATE: 6/11/2012
 FILE: \\ESI\Projects\2011\05-09118-00-BR\10-02-DPE.dwg
 JOB: Jordan Creek Overpass, Station 5+00 to 5+45, TR 92, DPE, 10/2