

Existing Structure No. 071-3088
 A Single Span (1 @ 38'-0") Reinforced Concrete Thru Girder Structure on Closed Concrete Abutments @ Sta. 10+00. Skewed 0°. To Be Removed. No Salvage Except Nameplate & Nameplate Shall Become Property Of The County.

BENCH MARK: Railroad Spike In Power Pole
 20' Lt. Of Sta. 6+87, Elev.=710.52

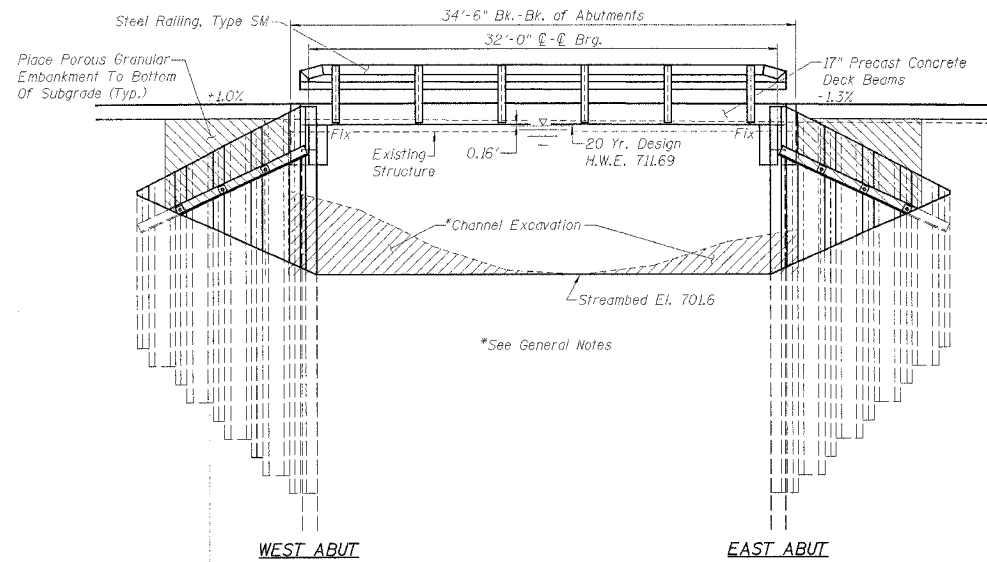
BENCH MARK: Chiseled "□" On The Northwest Wingwall of Exist. Bridge S.N. 071-3088
 10' Lt. Of Sta. 9+81, Elev.=716.29

BENCH MARK: Railroad Spike In Power Pole
 21' Lt. Of Sta. 16+07, Elev.=714.86

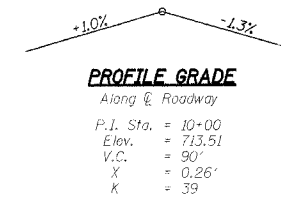
PROJECT	SECTION	COUNTY	SHEETS	TOTAL
59	01-2213-00-BR	Ogle	9	4
	01-0915-00-BR	Winnebago		
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT- BROS-141(62)	

BILL OF MATERIAL - BRIDGE

ITEM	UNIT	SUB	SUPER	TOTAL
Porous Granular Embankment	Cu. Yd.		115	115
Removal Of Existing Structures	Each			1
Channel Excavation	Cu. Yd.	89		89
Structure Excavation	Cu. Yd.	120		120
Concrete Structures	Cu. Yd.	16.8		16.8
Precast Prestressed Concrete Deck Beams - 17"	Sq. Ft.		929	929
Furnishing & Erecting Structural Steel	Pound	5003		5003
Steel Railing, Type SM	Foot		66.3	66.3
Hardware	Pound	2540		2540
Reinforcement Bars	Pound	4320		4320
Furnishing Metal Pile Shells - 12"	Foot	266		266
Driving and Filling Shells	Foot	266		266
Test Pile - Metal Shells	Each	1		1
Permanent Steel Sheet Piling	Sq. Ft.	2896		2896
Name Plates	Each		1	1

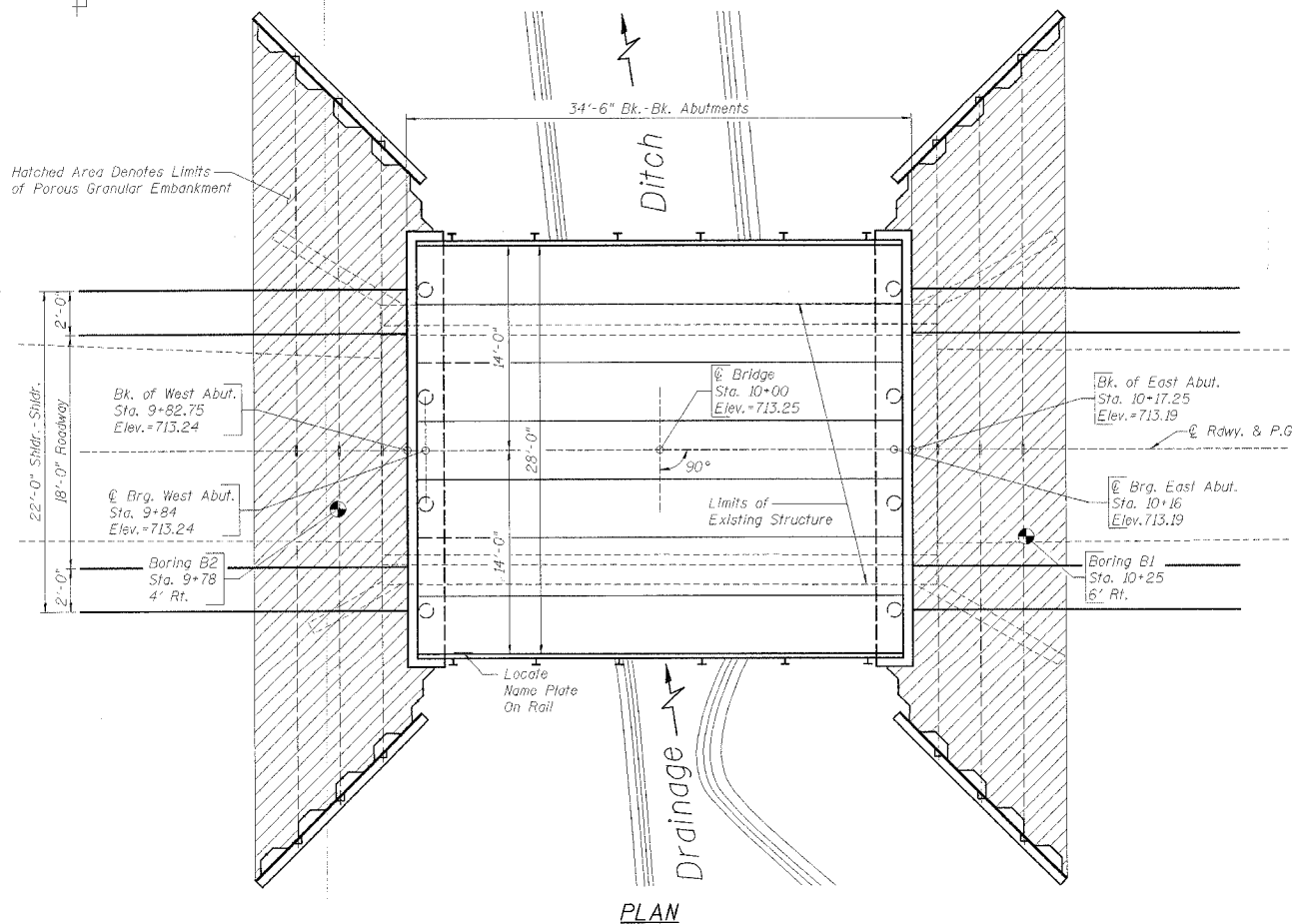


ELEVATION



GENERAL NOTES

See Proposal For Boring Data.
 Reinforcement Bars Shall Conform To The Requirements Of AASHTO M-31, M-42, Or M-53 Grade 60.
 Backfill Shall Be Placed Behind Abutments After Deck Beams Are Set And Grouted And Tie-Rods In Place. Refer To Article 502.10 Of The Standard Specifications.
 Contractor Shall Drive One Metal Shell Test Pile In A Permanent Location At The East Abutment As Directed By Engineer Before Ordering The Remainder Of Piles.
 Permanent Steel Sheet Piling For Abutments Is Based On The Use Of PZ-22 Sheet Piling. The Substitution Of An Alternate Type Of Steel Sheet Piles Must Be Approved By The Engineer And Must Have Equal Or Greater Section Properties. (Minimum Sx = 18.1 Cubic Inches Per Foot Of Wall) No Additional Compensation For Alternate Will Be Allowed.
 See Special Provisions For Field Painting Of Exposed Portions Of Permanent Steel Sheet Piling, Walkers, & 1/4" Cap Plate.
 Channel To Be Transitioned To Fit Proposed Structure Inside Right Of Way. Cost Shall Be Included In Price Per Cubic Yard For "Channel Excavation".
 A Calcium Nitrate Corrosion Inhibitor, As Covered In The Special Provisions, Shall be used in the Concrete for Precast Prestressed Concrete Deck Beams.



PLAN

DRAINAGE DITCH
 BUILT 2006 BY
 SCOTT ROAD DIST./OGLE COUNTY
 ROCKFORD ROAD DIST./WINNEBAGO COUNTY
 SECTION 01-2213-00-BR
 SECTION 01-0915-00-BR
 T.R. 59 STA. 10+00
 STR. NO. 071-3327 LOADING HS20

NAME PLATE LETTERING
 Refer To STD. 515001

**DESIGN STRESSES
 FIELD (LOAD FACTOR)**

$f'_c = 3,500$ P.S.I.
 $f_y = 60,000$ P.S.I. (Reinf.)
 $f_y = 36,000$ P.S.I. (Struct. Steel)

PRECAST PRESTRESSED UNITS

$f'_c = 5,000$ psi
 $f'_a = 4,000$ psi
 $f'_s = 270,000$ psi (1/2" ϕ STRANDS)
 $f'_s = 189,000$ psi (1/2" ϕ STRANDS)

DESIGN SPECIFICATIONS

Designed in accordance with AASHTO Spec. dated 2002.

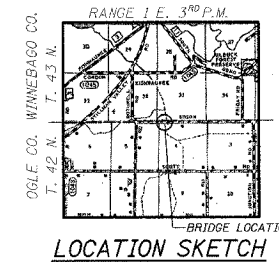
LOADING HS20-44

Allow 50#/#/Sq. Ft. for future wear surface.



Brian K. Converse
 DATE: MARCH 7, 2006
 EXPIRES 11/30/2006

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



LOCATION SKETCH

**GENERAL PLAN & ELEVATION
 SECTION 01-2213-00-BR
 SECTION 01-0915-00-BR
 EDSON ROAD OVER DRAINAGE DITCH
 SCOTT/ROCKFORD ROAD DISTRICTS
 OGLE/WINNEBAGO COUNTY**

**WILLET
 HOFFMANN &
 ASSOCIATES, Inc.**
 Consulting Engineers
 WHA # 1164001

DESIGNED BY:
 B.K. CONVERSE
 DATE: 7/02
 CHECKED BY:
 M.R. LESLIE
 DATE: 12/05
 DRAWN BY:
 F.D. LACHAT
 DATE: 1/03