Bench Mark: Chiseled square O N.W. corner of Easi hub guard, Elev. 575.87 Existing Structure: S.N. 032-0026 was built in 1956 and has 34'-4" Out to Out and 73'-9" Back to Back of abutments. Traffic to be maintained utilizing stage construction. No salvade

Steel H Piles

Name Plate

PARRED

APRICIPED

Bridge Appr. Shidr.

Pav't. Std. 2324 (typ.)

0.0%

PROFILE GRADE

(along ⊈ raadway)

DESIGNED YATHM CONFAILS

CHECKED VICTOR VELTE

CHECKED P.M. Petrone

DRAWN John F. Schneller Jr

Location

Note: Hatched area Indicates "Removol of Existing Structure", Elev. 575.56

6" Floor Drain Spacing 5 20'-9"

Bk. of S. Abut.

-Sta. 203+II.50

Elev. 581.52

(typ. both sides)

42" P.P.C.

Natural ground

ELEVATION

Stone Riprap

86'-6" Back to Back of Abutments

PLAN

Stream bed

È Structure

Sta. 203+54.75-

Flood

-Elev. 581.52

Elev. 566.7

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

Traffic Borrier Terminal

is in place (typ.)

20'-0" Bridge

Appr. Pav't.

Bk. of N. Abut.

-Sta. 203+98.00

Elev. 581.52

4'-28"

This portion of embankment backfill

by bridge contractor after abutment

sheet #2 of 15).

** Temporary Sheet Piling (See

10'-0"

£ € Roadway

Bridge Appr. Pav't.

Std. 2382 (typ.)

Limits of existing structure

Тура 6 (tур.)

Elev. 573.21

FOR INFORMATION ONLY



+ 113(183-2 3R. 38-1. 1. 1)

GENERAL NOTES

See Proposal for Boring Data.

All structural steel shall be shop painted with the zinc-silicate and vinyl paint system.

Reinforcement bars shall conform to the requirements of AASHTO M-31. M-42 or M-53 Grade 60.

Layout of stone riprop may be varied in the field to suit ground conditions as directed by the Engineer.

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

The contractor shall drive one (i) Steel (HPIOx42) test pile in a permanent location at the South Abutment as directed by the Engineer before ordering the remainder of piles.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Class X Concrete Superstructure	Cu. Yd.	125.5	i.	125.5
Class X Concrete	Cu. Yd.		82.3	82.3
Reinforcement Bars (Epoxy Coated)	Lbs.	21,220		21,220
Reinforcement Bars	Lbs.		8,220	8,220
Furnishing & Erecting Precast Prestressed Concrete I Beams (42")	Lin. Ft.	558		558
Steel Piles (HPI0x42)	Lin. Ft.		9/5	9/5
Test Piles Steel (HPl0x42)	Each		1	1
Name Plates	Each	- 1		1
Stone Riprap	5q. Yd.		780	780
Structure Excavation	Cu. Yd.		230	230
Preformed Joint Seal (134")	Lin. Ft.	55		55
Neoprene Expansion Joint (2")	Lin. Ft.	55		55
Protective Coat	Sq. Yd.	67		67
Structural Steel	Lbs.	1,200	1,510	2,710
Elastomeric Bearing Assembly, Type I	Each		7	7
Removal of Existing Structure	Each			
Temporary Sheet Piling	Sq. Ft.		2,094	2,094
Floor Drains	Each	8		8

DESIGN SPECIFICATIONS

STATION 203+54.75

BUILT 198 BY

STATE OF ILLINOIS

F.A. RT. 100 SEC. 110BR-1 PROJECT F-100(59)

LOADING HS20

STR. NO. 032-0088

NAME PLATE

See Std. 2113

AASHTO (1983) and applicable Interims (1984 thru 1985)

LOADING HS20-44

Allow 25#/sq. ft. for future wearing surface.

DESIGN STRESSES

FIELD UNITS f' = 3,500 psl

fy = 60,000 psi (Reinf.) fy = 36,000 psi (Str. Steel)

SHEET

PRECAST PRESTRESSED UNITS

6,000 psl = 4,800 psi

SCALE: N/A

 $f'_{il} = 270,000 \text{ psi } ({}^{l}_{2})'' \neq \text{strands})$ $f'_{il} = i89,000 \text{ psi } ({}^{l}_{2})'' \neq \text{strands})$



ILLINOIS ROUTE 47 OVER VALLEY RUN F.A. ROUTE 100 - SECTION 110BR-1 GRUNDY COUNTY STATION 203+54.75 STRUCTURE NO. 032-0088

GENERAL PLAN

FIL	E NAME =	USER NAME = bdecraene	DESIGNED -	REVISED -
V:\3195\66B83 (South Section)\CADD Sheet		s\D366B83-sht-exstruct-13.dgn	DRAWN -	REVISED -
		PLOT SCALE = 2.0000 '/ in.	CHECKED -	REVISED -
SHI	T_PLAN	PLOT DATE = 8/6/2013	DATE - 7/15/2013	REVISED -

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

IL. RTE. 47			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEE NO.			
EXISTING BRIDGE PLANS		326	(110)R, BR & BR-1	GRUNDY	644	411				
EXISTING DIIIDGE I EXIS					CONTRACT	NO.	66B83			
13	OF	23	SHEETS	STA. N/A	TO STA. N/A		ILLINOIS FED. A	ID PROJECT		

Druinage Area = 9.6 sq. mi. Law Grade Elev. 581.50 • Sta. 204+00.00 Freq. O Opening Sq. Ft. Nat. Head - Ft. Headwater El. Yr. C.F.S. Exist. Prop.* H.W.E. Exist. Prop. Exist. Prop. 50 920 284.8 290 575.3 0.3 0.3 575.6 575.6 100 1056 300.8 310 575.7 0.4 0.4 576.1 576.1

** Temporary

Sheet Piling

€ Brg._

Design Overtopping

500 | 1377 | 332.4 | 351 | 576.5 | 0.5 Max. Calc. Single span, apen abutment hridge with 45° skew angle

Elev. 575.71-

D.H.W. Elev. 575.3

3 spaces @ !5'-0" = 45'-0"

WATERWAY INFORMATION