Bench Mark: #22 " @ N.W. corner of East hub guara !4.2' Rt. Sta. 137+27; Elev. 570.83 Existing Structure: #032-0027 is a two span R.C. slab on R.C. closed abutments and open pile bent pier. Built in 1956 as S.B.I. Rte. 47, Section IOB-I, the existing structure is to be removed by the bridge contractor. One lane of traffic is to be maintained at all times utilizing stage construction. Note: Hatched portions Indicates "Removal of Existing Structure." Elev. 563.94 Elev. 563.77

Bk. of S. Abut.

Elev. 570.58

€ Brg.

-Sta. 136+12.50

Elev. 56/.2/

Steel H Piles

12'-1038"

This portion of embankment

backfill by bridge contractor after abutment is in place. (typ.)

6<sup>™</sup> Drain Spacing

Appr. Shidr. Pav't.

Std. 2324 w/o drains-

(typ. both sides)

(typ.)

10'-0"

0.0%

PROFILE GRADE

(along € roadway)

DESIGNED VICTOR VELIZ

CHECKED V.V. ETG PMID

CHECKED EVE Though

DRAWN Rita Williams

\*\* Temporary Sheet

Barne #1

Location of

Name Plate

3'-112"

APPROVED

54" P.P.C. I-Bm.

ELEVATION

Stream bed

Elev. 554.8

Natural ground

12'-103a

Stone

Rîprap

(typ.)

Bedding

<del>7,500</del>

D.H.W. Elev. 562.53

4 drain spaces @ 13'-5" = 53'-8"

© of Structure Stg. 136+58,25

Elev. 570.56 %

91'-6" Back to Back of Abutments

Flood

Design

Base

Overtopping

Max. Calc.

PLAN

Stone

200

Riprap

(typ.)

Elev. 558.5

### STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

Traffic Barrier Terminal

\*\* Temporary Sheet Piling, see

Sheet #2 of 15 Sheets.

Bridge Appr. Pav't.

Std. 2382 (typ.)

r⊈ Roadway

0

\* \* Temporary Sheet Piling

Elev.556.3

(typ.)

Туре 6 - (tур.)

Elev. 561.10

Steel H Piles

Limits of

existing structure

Bk. of N. Abut.

Sto. 137+04.00

Elev. 570,56

Limits of

existing structur

€ Brg.

WATERWAY INFORMATION

O
Opening
Sq. Fi.
Not.
Head
Ft.
Headwater
El.

C.F.S.
Exist.
Prop.\*
H.W.E.
Exist.
Prop.

248 256 563.00 2.07 1.61

Drainage Area = 12.0 sq. ml. Low Grade Elev. 570,50 👲 Sta. 139+00.00



# GENERAL NOTES

See Proposal for Boring Data,

All structural steel shall be shap pointed with the zinc-silicate and vinyl paint system.

Reinforcement bars shall conform to the regulrements 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 (I) Steel (HPl0x42) test plie in a permanent location at the South Abutment as directed by the Engineer before erdering the remainder of piles.

# FOR INFORMATION ONLY

## TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Class X Concrete Superstructure	Cu. Yd.	133,7		753.7
Class X Concrete	Cu. Yd.		525	± 6.5
Reinforcement Bars (Epoxy Coated)	Lbs.	24,040		24,040
Reinforcement Bars	Lbs.		8,170	8,170
Furnishing & Erecting Precast Prestressed Concrete I Beams (54°)	Lin. Ft.	510		5/0
Steel Piles (HPIOx42)	Lin. Ft.		778	778
Test Piles Steel (HPIOx42)	Each		1	i
Nama Plates	Each	1		- 1
Stone Riprop	Sq. Yd.		542	542
Structure Excavation	Cu. Yd.	268		268
Preformed Joint Seal (134")	Lin. Ft.	53		53
Neoprene Expansion Joint (2")	Lin. Ft.	51		5/
Protective Coat	5g. Yd.		71	71
Structural Steel	Lbs.	1,330	1,440	2,770
Elastomeric Bearing Assembly, Type I	Each	6		6
Removal of Existing Structure	Each		i	- t
Temporary Sheet Piling	Sq. Ft.		1774	1774
Floor Drains	Each	Ю		Ю

### STATION 136+58.25 BUILT 198 BY STATE OF ILLINOIS F.A. RT. 100 SEC. 110BR PROJECT F-100(59) LOADING HS20 STR. NO. 032-0089

NAME PLATE See Std. 2113

LOADING HS20-44

FIELD UNITS f's = 3,500 ps/

PRECAST PRESTRESSED UNITS

4,000 psl minimum

SHEET 1

		R	ang	<i>1e</i>	7E_	-	3rd.	P	4	
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	LOCATION SKETCH									
EGOTT TON CHETON										

GENERAL PLAN ILLINOIS ROUTE 47 OVER SARATOGA CREEK F.A. ROUTE 100 - SECTION HOBR GRUNDY COUNTY STATION 136+58.25 STRUCTURE NO. 032-0089

, ,		* Si	ingle Span, open abutment bridg	e with 42° skew angle.
FILE NAME =	USER NAME = bdecraene	DESIGNED -	REVISED -	
V:\3195\66B83 (South Section)\CADD Sheet	\D366B83-sht-exstruct-1.dgn	DRAWN -	REVISED -	S1
	PLOT SCALE = 2.0000 '/ in.	CHECKED -	REVISED -	DEPARTME
SHT_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	399
				CONTRACT	NO. 6	66B8
1 OF 23 SHEFTS STA. N/A	TO STA. N/A		TILL INDIS FED.	AID PROJECT		

# DESIGN SPECIFICATIONS

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

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

# DESIGN STRESSES

fy = 60,000 psi (reinf.) fy = 36,000 psi (Struc.)

 $f'_{o} = 5,000 \text{ psl}$ 

SCALE: N/A

--- Ermits

f's = 270,000 psi (12" \$ strands) f'st = 189,000 psi (12" \$ strands)