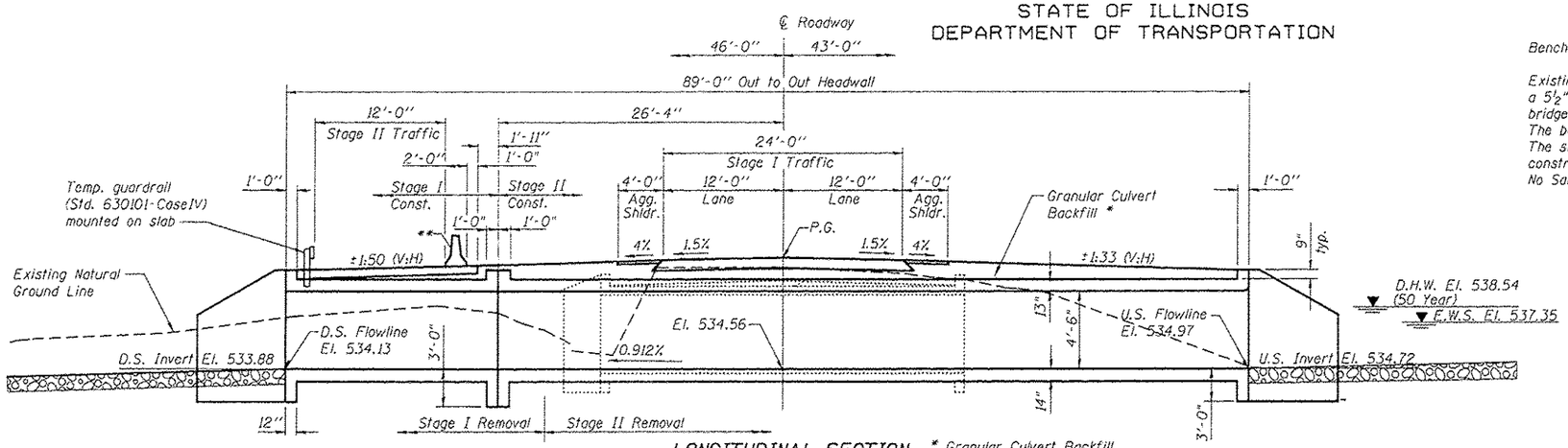
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FOR INDEX OF SHEETS, SEE SHEET NO. 2

Bench Mark: Chiseled "Square" in west end of the north headwall 17.6' Lt. STA 152+42.3 Elev=540.97

Existing Structure: S.N. 034-0050 was built in 1928 as SBI 95, Section 113-B. In 1991 a 5½" concrete wearing surface was added. The structure is a single span concrete slab bridge. The substructure is composed of the original closed abutments on spread footings. The back-to-back dimension measures 20'-0" while the out-to-out deck width is 36'-2". The structure is to be replaced with a 2-cell box culvert on a 15 degree skew. Stage construction with on-site run around will be utilized.
No Salvage

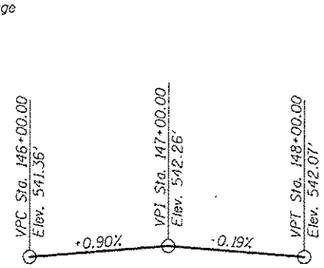


** Temporary Concrete Barrier, typ.

LONGITUDINAL SECTION

(Dim. at Rt. L's to ℄ Rdwy.)

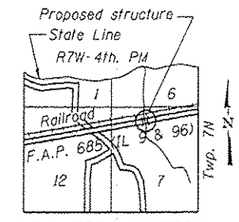
* Granular Culvert Backfill to extend 2'-0" beyond all sides of the box culvert.



LVC=200.00'

PROFILE GRADE

(along ℄ roadway)



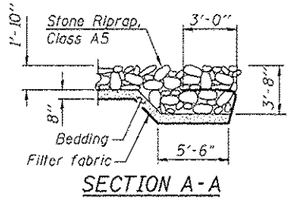
LOCATION SKETCH

HIGHWAY CLASSIFICATION

F.A.P. ROUTE 685 - IL 9 & 96
Functional Class: Minor Arterial (Non-Urban)
ADT: 2,200 (2012); 2,650 (2032)
ADTT: 8%
DHV: 330 (2012); 398 (2032)
Design Speed: 60 m.p.h.
Posted Speed: 55 m.p.h.

DESIGN SPECIFICATIONS

2012 AASHTO LRFD
Bridge Design Specifications



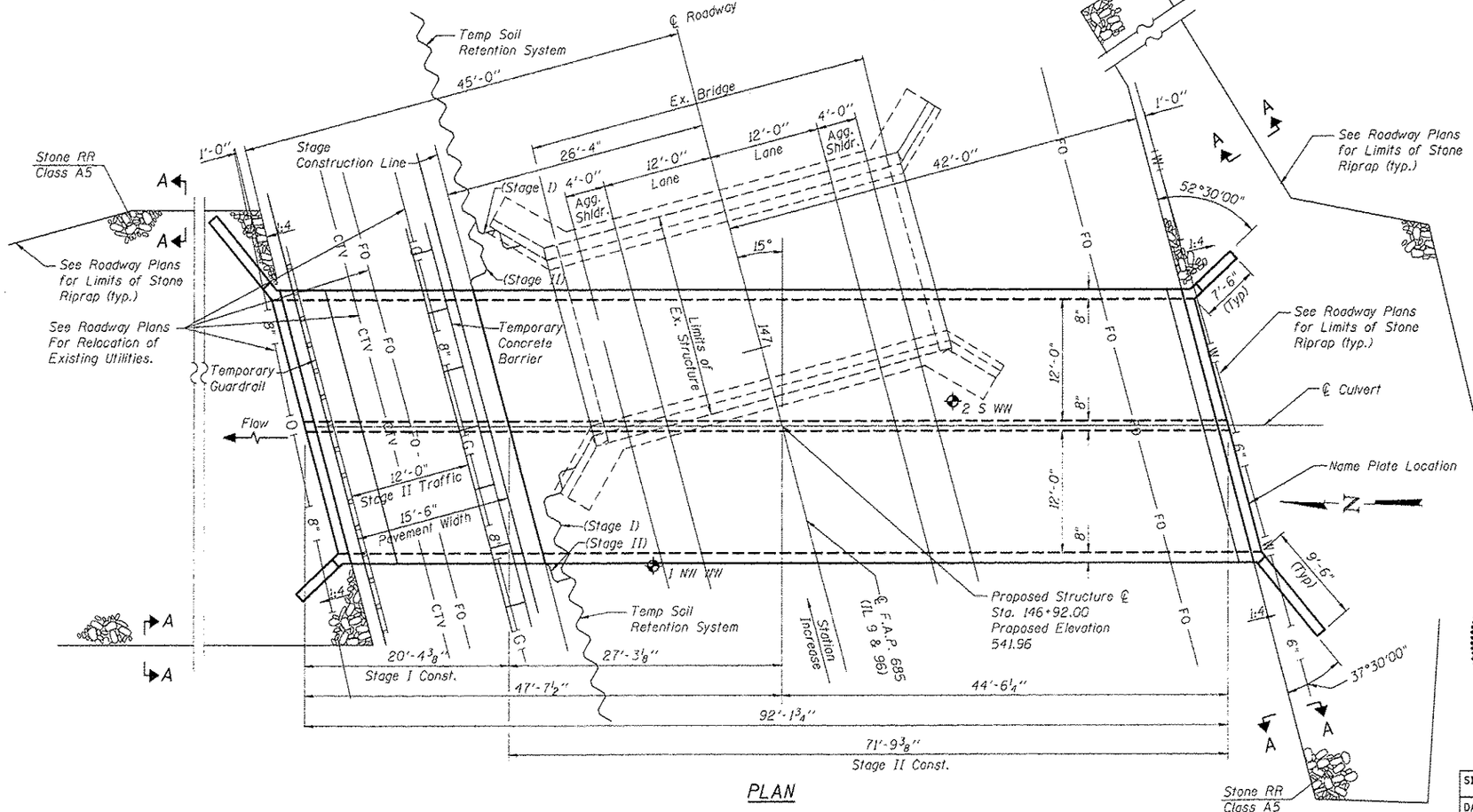
SECTION A-A

LOADING HL-93

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

DESIGN STRESSES

FIELD UNITS
f'_c = 3,500 psi
f_y = 60,000 psi (reinforcement)



PLAN

APPROVED
For Structural Adequacy Only
Engineer of Bridges & Structures

LICENSED STRUCTURAL ENGINEER
KARA C. MARFELL
081-005959
STATE OF ILLINOIS

SIGN: Kara Marfell
DATE: 2/5/13
LICENSE EXP: 11-30-2014
DAVID MASON & ASSOC, INC.

GENERAL PLAN
IL 9 & 96 OVER DRAINAGE DITCH
F.A.P. ROUTE 685 SECT. 113 (B-4)
HANCOCK COUNTY
STATION 146+92.00
STRUCTURE NO. 034-2527

The VOLKERT/DMA	USER NAME = $USER$	DESIGNED BLM	REVISED -
		DRAWN TJR	REVISED -
	PLOT SCALE = $SCALE$	CHECKED JEK	REVISED -
	PLOT DATE = $DATE$	DATE 02-04-2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE: NTS | SHEET 1 OF 9 SHEETS | STA. 146+92.00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
685	113 (B-4)	HANCOCK	62	37
		CONTRACT NO. 72B62		
	ILLINOIS FED. AID PROJECT			