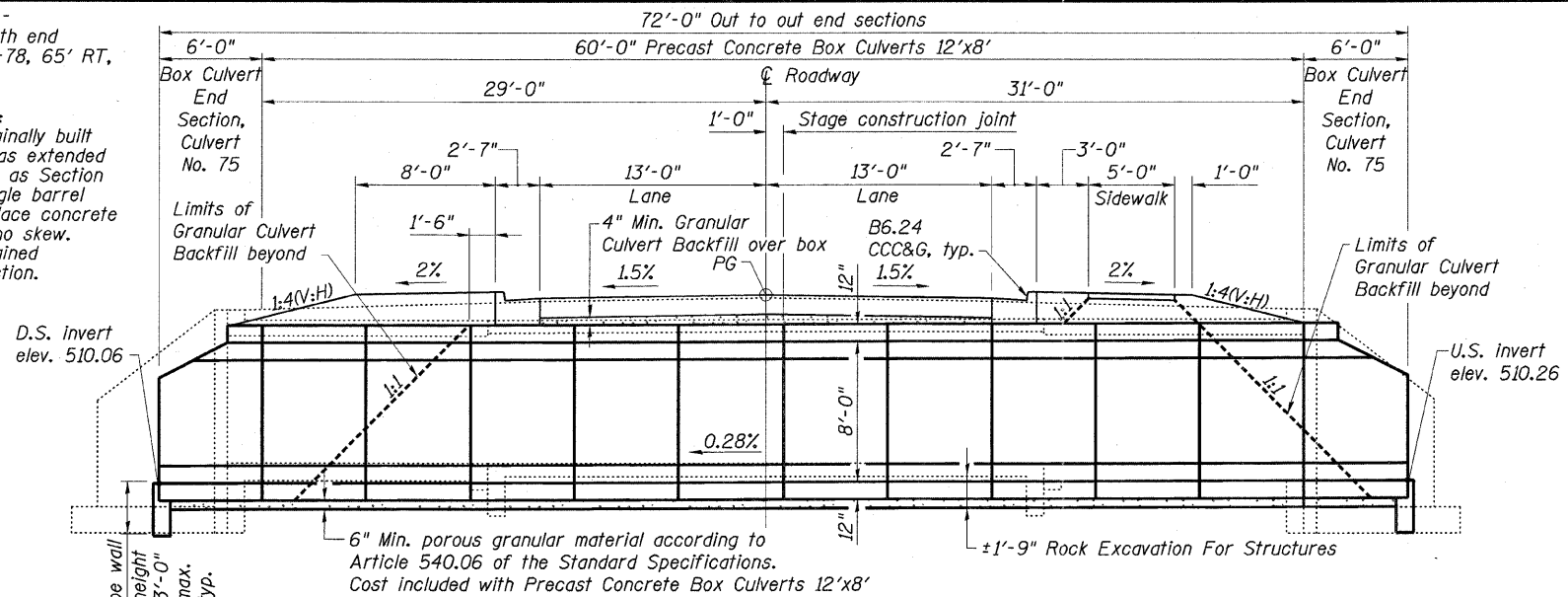




BENCHMARK: BM #30 - Chiseled square on north end of sidewalk, sta. 1269+78, 65' RT, elev. 522.06

EXISTING STRUCTURE: SN 040-8604 was originally built as 32'-0" long, and was extended to 62'-0" long in 1990 as Section (5,6) RS-1. It is a single barrel 12'Sx7'-3"R cast-in-place concrete box culvert. There is no skew. Traffic is to be maintained utilizing stage construction.



LONGITUDINAL SECTION
(Looking East)

STRUCTURE INDEX OF SHEETS

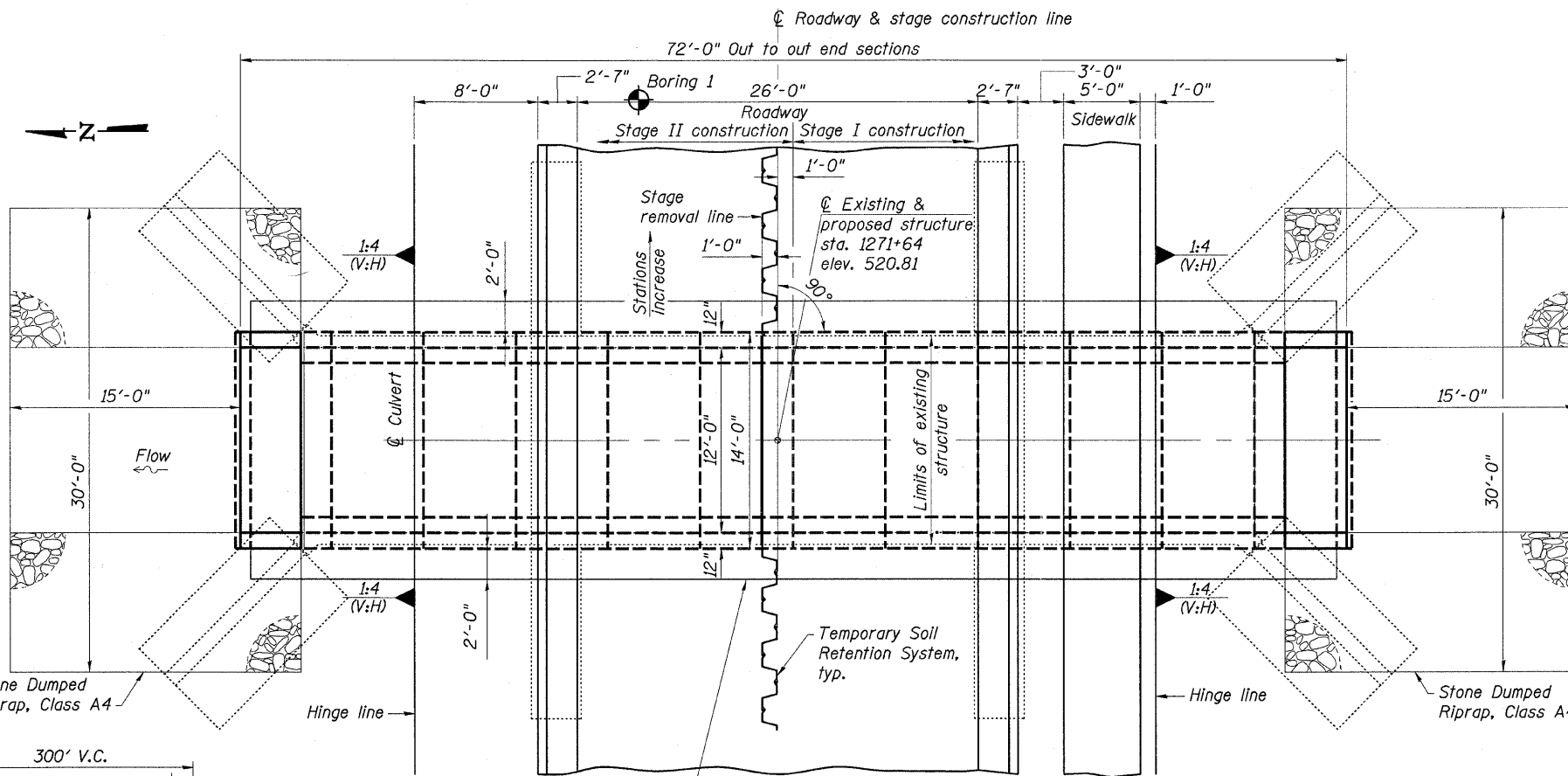
General Plan & Elevation	Sheet No. 1 of 4
Stage Construction Details	Sheet No. 2 of 4
Temporary Concrete Barrier For Stage Construction	Sheet No. 3 of 4
Boring Log	Sheet No. 4 of 4

GENERAL NOTES

- Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer. Stone dumped riprap shall be 12" thick on top of filter fabric. No bedding aggregate is to be used. No riprap shall be used in areas where rock is exposed. Riprap slopes shall be anchored 12" into exposed rock if possible. Rock excavation necessary to anchor riprap slopes will not be paid for separately, but shall be included in the cost of Stone Dumped Riprap.
- Culvert flows must be maintained throughout the project. Normal flow shall be allowed to pass at the rate it enters the jobsite. High flows shall be allowed to pass without causing damage to upstream properties.
- The box culvert end sections shall be precast and shall conform to the requirements of Article 540.06 of the Standard Specifications and the applicable requirements of ASTM C 1577 as well as the details in the plans. The design fill is less than two feet.
- Earth excavation required for the culvert to the limits shown on the drawings shall be paid for as Structure Excavation.
- For backfilling and embankment, see the Standard Specifications. Backfill culvert excavation with Granular Culvert Backfill to the limits shown on the plans, except the outer three feet at each end of the culvert shall be backfilled with impervious material.
- See the roadway plans for quantities of temporary concrete barrier, pavement removal, and pavement patches.

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Granular Culvert Backfill	Cu. Yd.	370
Temporary Soil Retention System	Sq. Ft.	228
Stone Dumped Riprap, Class A4	Sq. Yd.	125
Filter Fabric	Sq. Yd.	125
Removal of Existing Structures No. 22	Each	1
Structure Excavation	Cu. Yd.	400
Rock Excavation For Structures	Cu. Yd.	93
Box Culvert End Section, Culvert No. 75	Each	2
Precast Concrete Box Culverts 12'x8'	Foot	60



PLAN

DESIGN SPECIFICATIONS

2010 AASHTO LRFD Bridge Design Specifications 5th Edition with 2010 Interims
LOADING HL-93
Allow 50 psf for future wearing surface

DESIGN STRESSES

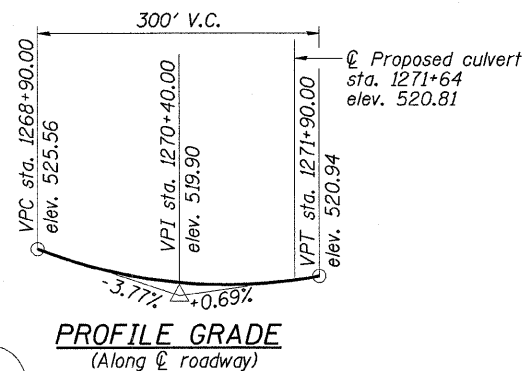
FIELD UNITS
f'c = 3,500 psi

PRECAST UNITS

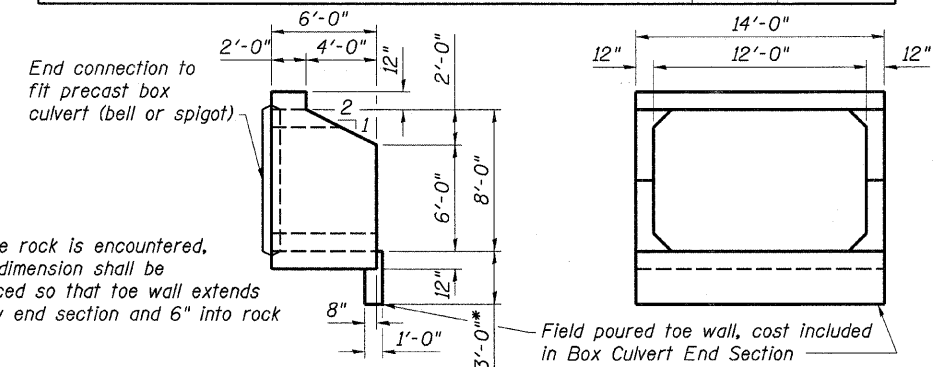
f'c = 5,000 psi
fy = 65,000 psi (WWF)

WATERWAY INFORMATION

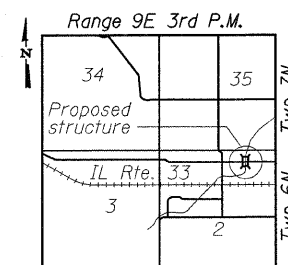
Drainage Area = 1.1 Sq. Mi. Prop. Low Grade Elev. = 520.78 ft. @ sta. 1271+50				
Flood	Freq. Yr.	Q C.F.S.	Headwater Elev. (ft)	
	10	535	518.07	517.57
Design	50	892	520.54	520.04
Base	100	1057	521.26	521.14



PROFILE GRADE
(Along roadway)



ELEVATION
END VIEW
PRECAST BOX CULVERT END SECTION DETAILS



LOCATION SKETCH

GENERAL PLAN & ELEVATION
ILLINOIS ROUTE 33 OVER STREAM
F.A.P. RTE. 95 - SEC. (5,6)Y,RS-2,6BR-7
JASPER COUNTY
STATION 1271+64
STRUCTURE NO. 040-8645

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	(5,6)Y,RS-2,6BR-7	JASPER	546	2731
CONTRACT NO. 94437			ILLINOIS FED. AID PROJECT	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

▲ SHEET ADDED 2/22/12
SHEET NO. 1 OF 4 SHEETS



USER NAME = swar-tzrw
ESCA PROJECT NO. 1070.03
PLOT SCALE = 0=80 61/64 1" = 10'
PLOT DATE = 2/16/2012 12:48 PM

DESIGNED - ELH 02/11	REVISED -
CHECKED - RDP 02/11	REVISED -
DRAWN - HAS 02/11	REVISED -
CHECKED - ELH 02/11	REVISED -