

ROUTE NO.	SECTION	COUNTY	SHEETS	SHEET NO.
FAS 1279	1071	LaSALLE	43	27
FED. ROAD DIST. NO.		ILLINOIS FEDERAL PROJECT		

CTR# 66400

GENERAL NOTES

- Exposed edges shall be beveled 3/4".
- For backfilling & embankment, see Standard Specifications.
- Reinforcement bars shall conform to the requirements of AASHTO M31, M42 or M53 Grade 60.
- Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.
- All construction joints shall be bonded.
- Class SI Concrete shall be used throughout the cast-in-place concrete portion of the barrel, wings, and headwalls.
- The Precast Concrete Box Culvert sections shall conform to the requirements of AASHTO M259.
- Excavation behind existing abutment walls shall be done before removing the existing superstructure. The Contractor shall sawcut the existing abutments at the stage removal line before Stage I removal.
- For Section B-B see Dwg. No. 2 of 5.

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Stone Riprap, Class A4	Sq. Yd.	164
Filter Fabric	Sq. Yd.	164
Removal of Existing Structures No. 2	Each	1
Temporary Soil Retention System	Sq. Ft.	940
Name Plates	Each	1
Box Culvert End Section, Culvert No. 2	Each	2
Precast Concrete Box Culvert 12' x 8'	Foot	96
Temporary Mechanically Stabilized Earth Wall	Sq. Ft.	240

Pay Items for Temporary Concrete Barriers, Excavation, Porous Granular Embankment and Porous Granular Embankment, Special are included in Roadway Plans.

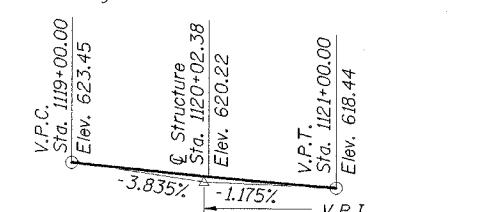
STATION 1120+02.38
 BUILT 200_ BY
 STATE OF ILLINOIS
 FAS ROUTE 1279 SECTION 1071
 F.A. PROJECT _____
 LOADING HS20
 STR. NO. 050-2040

NAME PLATE
See Std. 515001

BENCHMARK: 60D Nail in Power Pole
 Sta. 1124+82, 38.9' Lt., Elev. 624.66

EXISTING STRUCTURE: SN 050-0154 was built in 1932 as Sec. 107B. The structure is a single span reinforced concrete structure with 2 closed abutments and wingwalls on spread footings with 12-inch dia. untreated timber piles. The deck width is 42'-2" and the length is 16'-6" back to back of abutments. Traffic shall be maintained utilizing stage construction.

No salvage.

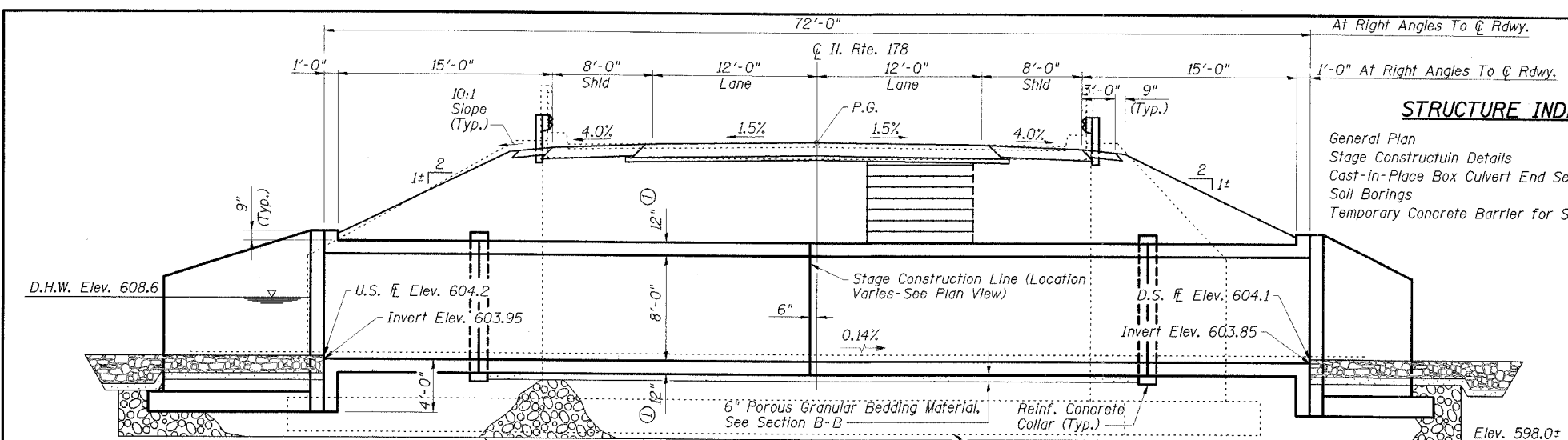


PROFILE GRADE
(Along Center Roadway)

GENERAL PLAN
 IL ROUTE 178 OVER
 UNNAMED TRIBUTARY
 FAS 1279 SECTION 1071
 LaSALLE COUNTY
 STATION 1120+02.38
 STRUCTURE NO. 050-2040

STRUCTURE INDEX OF SHEETS

- | | |
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| Stage Construction Details | Sheet No. 2 of 5 |
| Cast-in-Place Box Culvert End Section Details | Sheet No. 3 of 5 |
| Soil Borings | Sheet No. 4 of 5 |
| Temporary Concrete Barrier for Stage Construction | Sheet No. 5 of 5 |

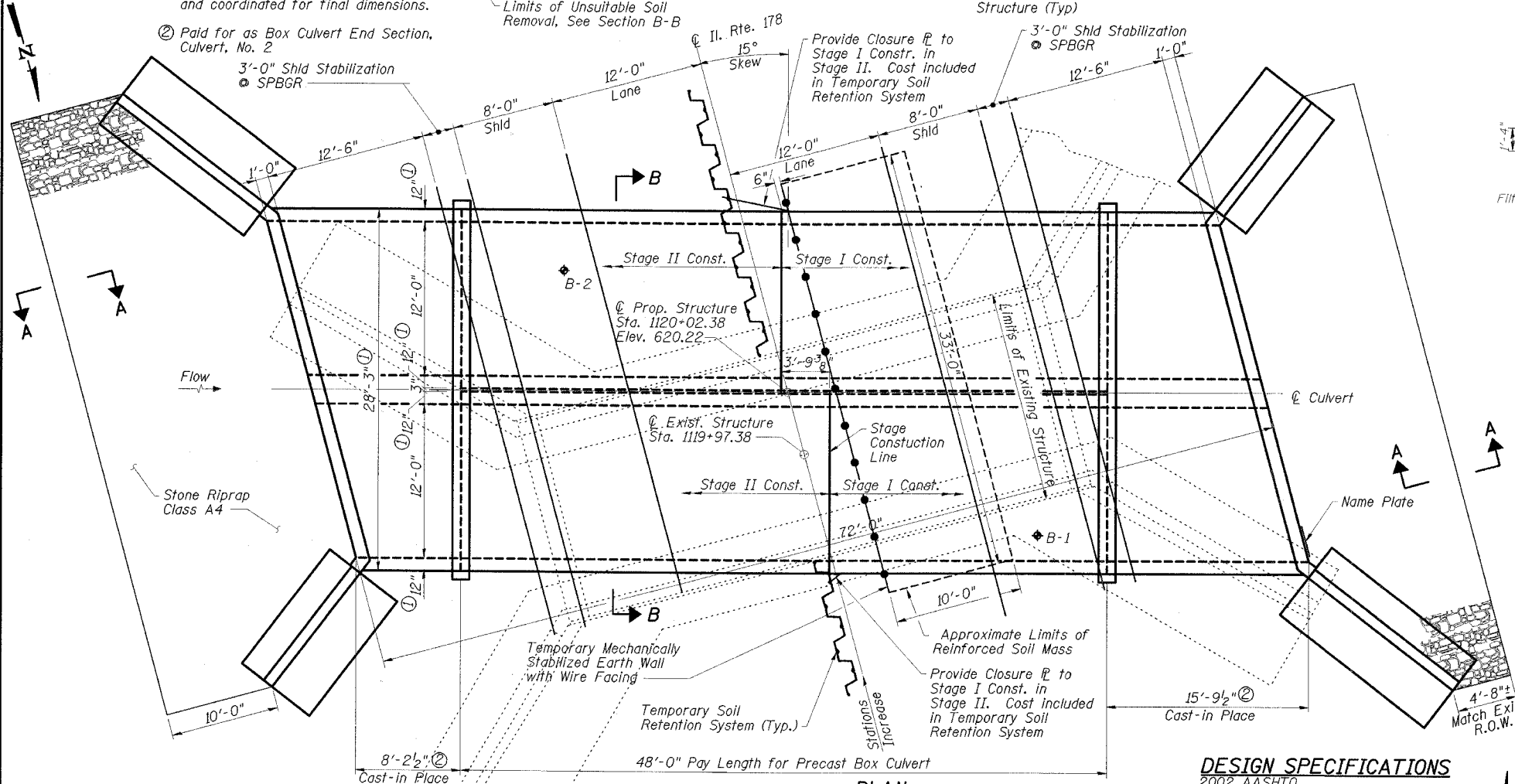


LONGITUDINAL SECTION

① Thickness of precast culvert walls and slabs shall be verified on shop drawings and coordinated for final dimensions.

② Paid for as Box Culvert End Section, Culvert, No. 2

Note: Dimensions shown at right angles to centerline of Il. Rte. 178



PLAN

WATERWAY INFORMATION

Drainage Area = 0.68 Sq. Mi.		Low Grade Elev. = 618.44 Ft. @ Sta. 1121+00				
Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist. Prop.	Nat. H.W.E. Exist. Prop.	Head-Ft. Exist. Prop.	Headwater El. Exist. Prop. (*)
Design	50	490	55 111.6	608.6 2.4 0.6	611.0 609.2	
Base	100	570	60 114.0	608.7 2.8 0.8	611.5 609.5	
Max. Calc. Overtopping	500	750	68 121.2	609.0 3.7 1.3	612.7 610.3	

(*) Headwater El. = W.S. El. @ Upstream face of Proposed Structure

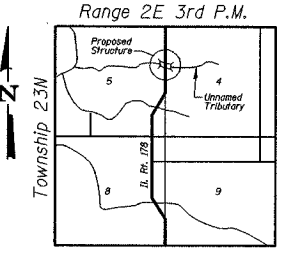
DESIGN SPECIFICATIONS
2002 AASHTO

LOADING HS20-44
Allow 50 psf for future wearing surface.

DESIGN STRESSES
FIELD UNITS

$f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinf.)

PRECAST UNITS
 $f'_c = 5,000$ psi
 $f_y = 65,000$ psi (wwf)



LOCATION SKETCH

STATE OF ILLINOIS
 No. 4647
 EXPIRES 11-30-06
 SIGNATURE
 DATE

ESCA CONSULTANTS, INC.

DESIGNED BY:	RDP	11/05
DRAWN BY:	DWH	11/05
CHECKED BY:	MTD	12/05
APPROVED BY:	RDP	05/06