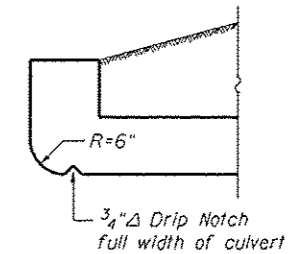
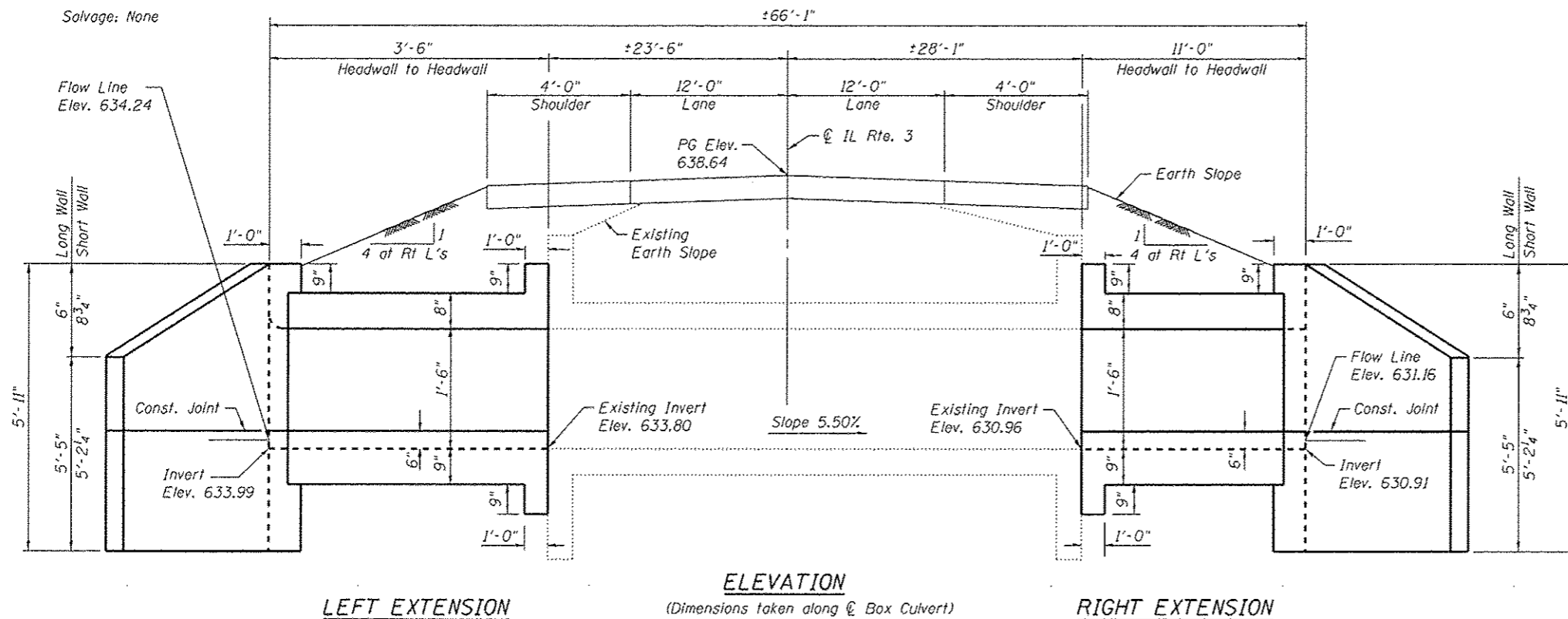


Existing Structure: The existing structure is a +51'-7" long reinforced cast-in-place concrete box culvert with a 2'-0" x 1'-6" opening. The original structure was constructed as S.B.I. Route 109 Construction Section 101-A at the original station of 321+83.



HEADWALL DETAILS AT UPSTREAM END

GENERAL NOTES

Plan dimensions and details relative to existing structure have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in the scope of work, however, the Contractor will be paid for the quantity furnished at the unit price for the work.

The verification of allowable soil bearing pressure underlying the proposed box culvert shall be verified by a dynamic cone penetration (DCP) test or other acceptable measures as provided by the District Geotechnical and Field Engineers. The results of the test must exceed the calculated bearing pressures shown on the plans prior to placement of the Concrete Box Culvert. Tests failing to exceed the calculated bearing pressures as shown on the plans will require subsurface modification that must be coordinated with the District Geotechnical and Field Engineers.

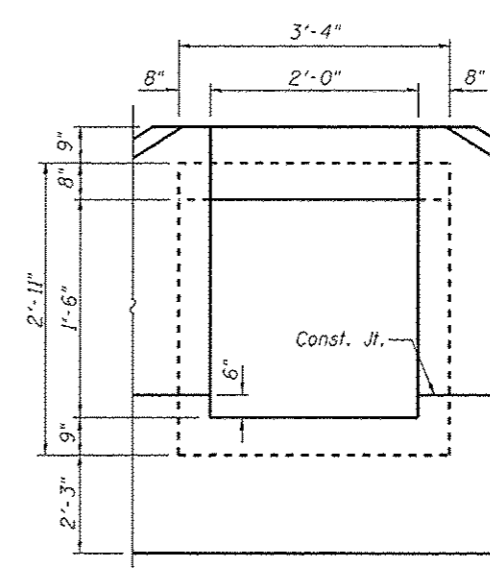
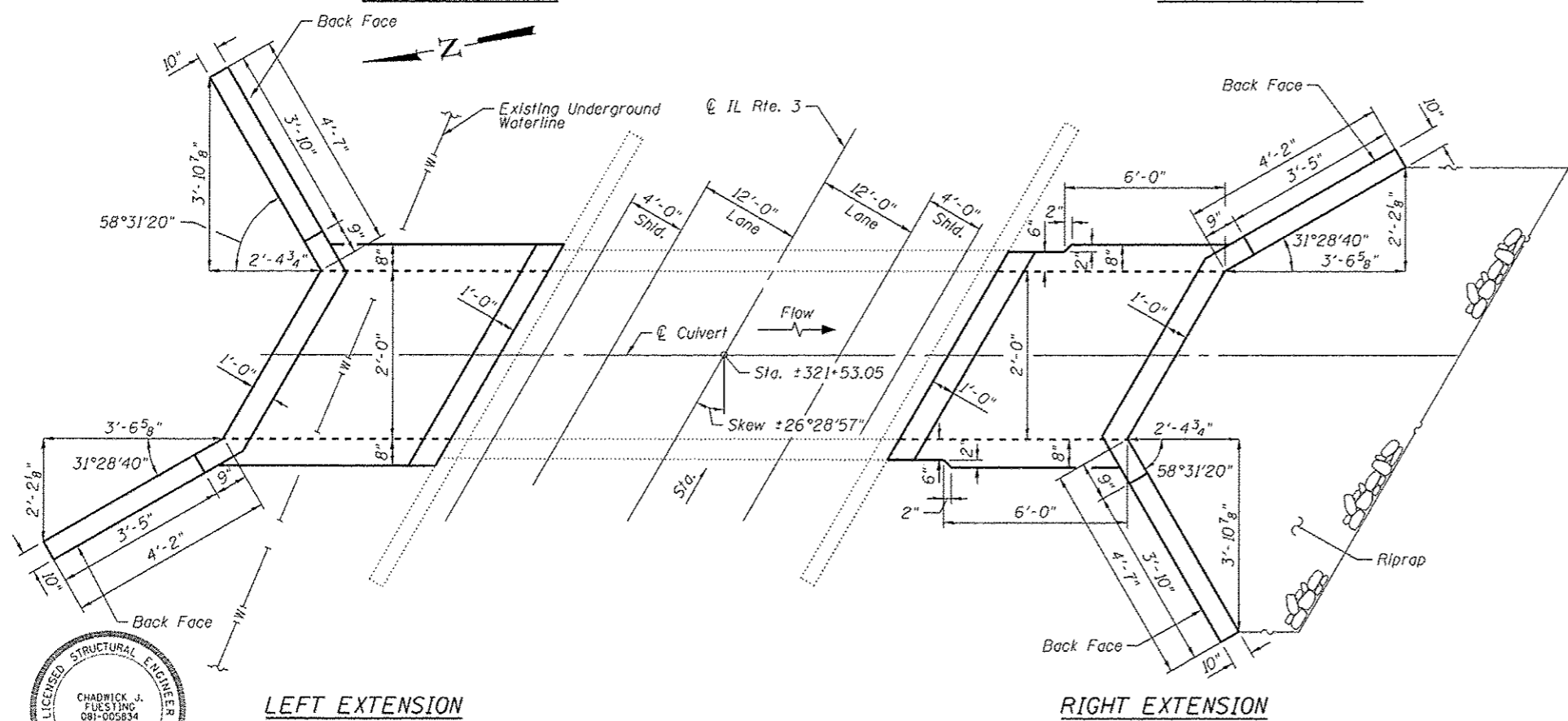
Expansion bolts shall be according to Standard Specification Article 1006.09. Precast alternative not allowed at this site.

A distance half the length of the wingwall but not less than 6'-0" of the barrel shall be poured monolithically with the wingwalls.

Calculated max. soil pressure under barrel = 1,958 psf.

For Riprap details and quantities see Roadway Plans.

For Total Bill of Material see sheet 3 of 3.



BOX CULVERT END ELEVATION (Dimensions Shown at Rt L's)

DESIGN SPECIFICATIONS

2002 AASHTO Standard Specifications for Highway Bridges

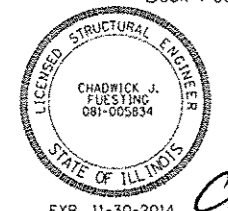
LOADING HS 20-44

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

DESIGN STRESSES

EXISTING CONSTRUCTION	NEW CONSTRUCTION
$f_y = 40,000 \text{ psi}$	$f_y = 60,000 \text{ psi}$
$f'_c = 3,000 \text{ psi}$	$f'_c = 3,500 \text{ psi}$

GENERAL PLAN & ELEVATION
ILLINOIS ROUTE 3
F.A.S. RTE. 752 - SEC 101-2RS-1
JERSEY COUNTY
STA 321+53.05



Culvert 8/18/14

PLAN SHOWING OUTLINES

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

USER NAME	DESIGNED	REVISIONS
Illinois Design Firm Number 184,001670	JD	-
PLOT SCALE	BB	-
PLOT DATE	EW	-
	CJF	-

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
752	101-2RS-1	JERSEY	438	234
CONTRACT NO. 76789			ILLINOIS FED. AID PROJECT	