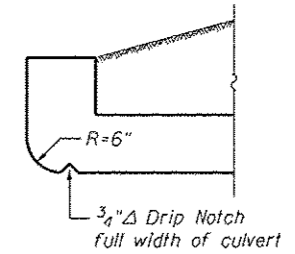
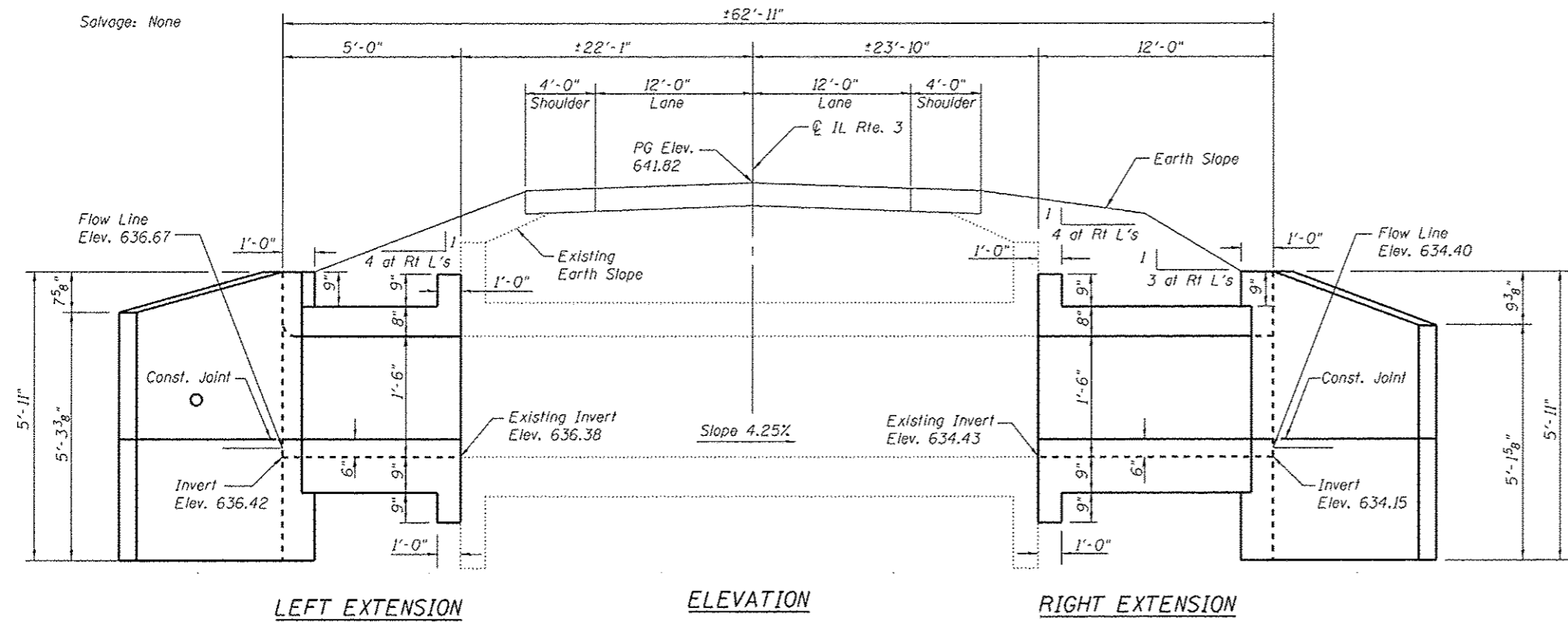


Existing Structure: The existing structure, is a ±45'-11" long reinforced cast-in-place concrete box culvert with a 2'-0" x 1'-6" opening. The original structure was constructed as S.B.I. Route 109 Construction Section 101-A at the original station of 327+00.



HEADWALL DETAILS AT UPSTREAM END



LEFT EXTENSION ELEVATION RIGHT EXTENSION

GENERAL NOTES

Plan dimensions and details relative to the 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.

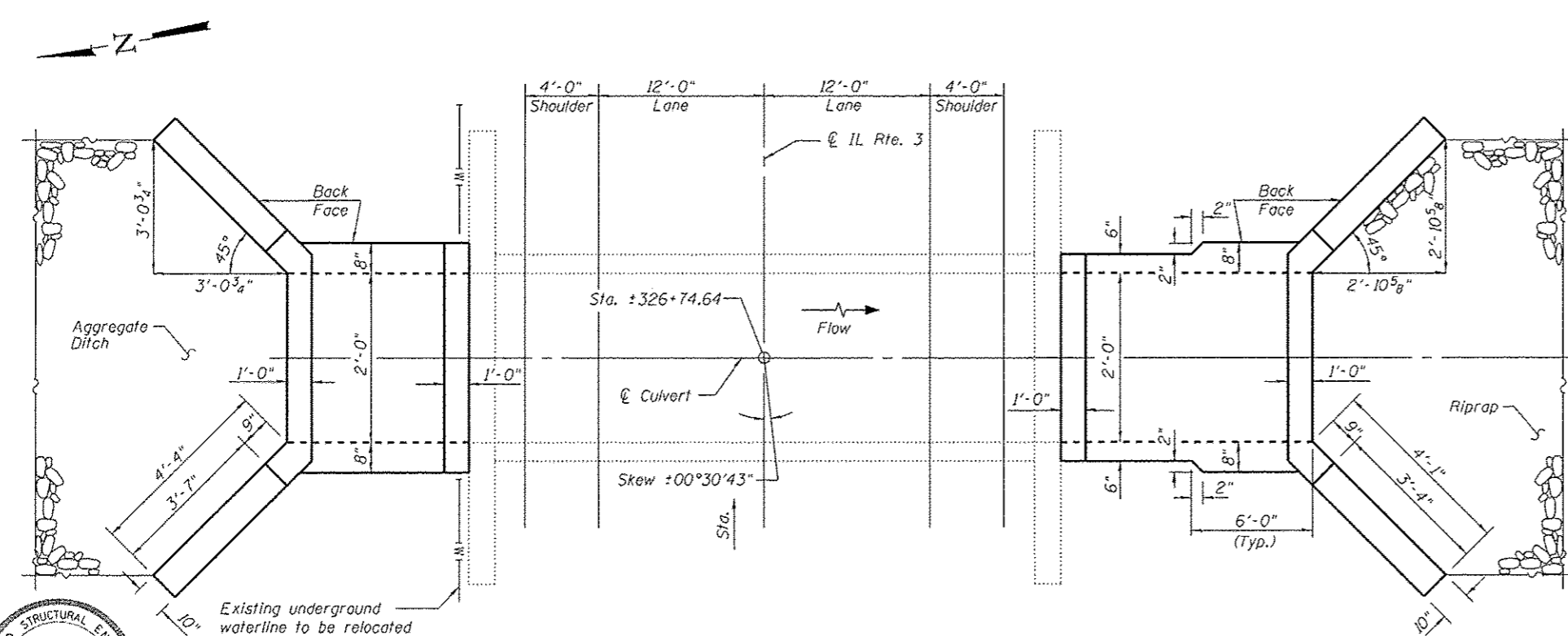
Precast alternative not allowed at this site.

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

Calculated max. soil pressure under barrel = 1,885 psf.

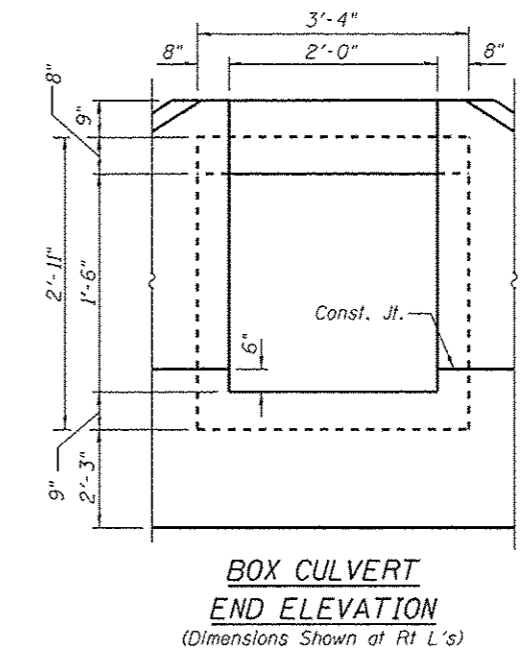
For Riprap and Aggregate Ditch details and quantities see Roadway Plans.

For Total Bill of Material see sheet 3 of 3.



LEFT EXTENSION RIGHT EXTENSION

PLAN SHOWING OUTLINES



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

DESIGN SPECIFICATIONS

2002 AASHTO Standard Specifications for Highway Bridges

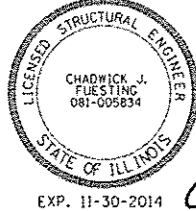
LOADING HS 20-44

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

DESIGN STRESSES

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

GENERAL PLAN & ELEVATION  
ILLINOIS ROUTE 3  
F.A.S. RTE. 752 - SEC. 101-2RS-1  
JERSEY COUNTY  
STATION 326+74.64



Cul Facility P/B/14

FILE NAME = 326+74.64-76789-021.dgn

	USER NAME = jdrinkelmann	DESIGNED = JD	REVISÉD =	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	F.A.S. RTE. 752 SECTION 101-2RS-1 COUNTY JERSEY TOTAL SHEETS 438 SHEET NO. 237 CONTRACT NO. 76789
	Illinois Design Firm Number 184.001670	CHECKED = BB	REVISÉD =		
	PLOT SCALE =	DRAWN = WS	REVISÉD =		
	PLOT DATE = 8/6/2014	CHECKED = CJF	REVISÉD =		
SHEET NO. 1 OF 3 SHEETS					ILLINOIS FED. AID PROJECT