

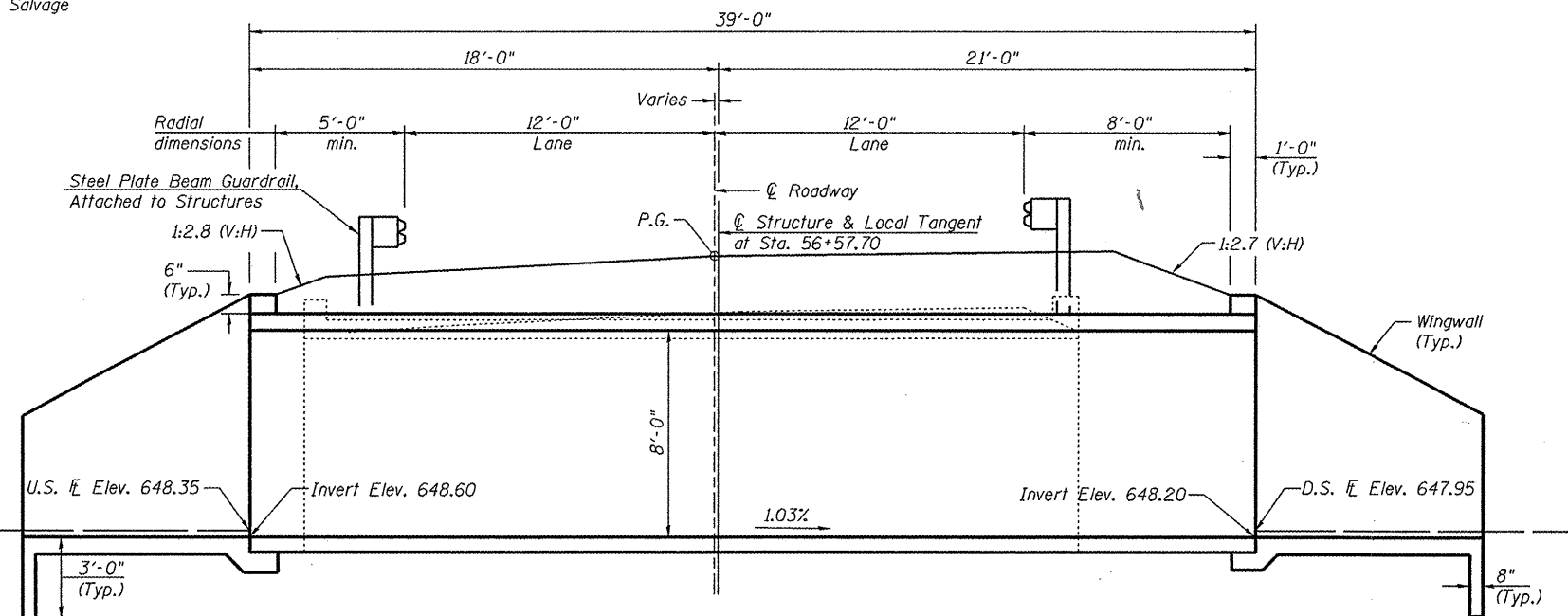
Bench Mark: Chiseled "□" in east headwall of SN 068-7030 at south end of curve, Elev. 659.747 (NAVD 88).

Existing Structure S.N. 068-7030; built in 1965 as a single 6'x8' box culvert, 30' o. to a. headwall and with no skew. The existing structure is to be removed and replaced with a 39'-0", 6'x8' precast concrete box culvert.

Road closure shall be used for construction.

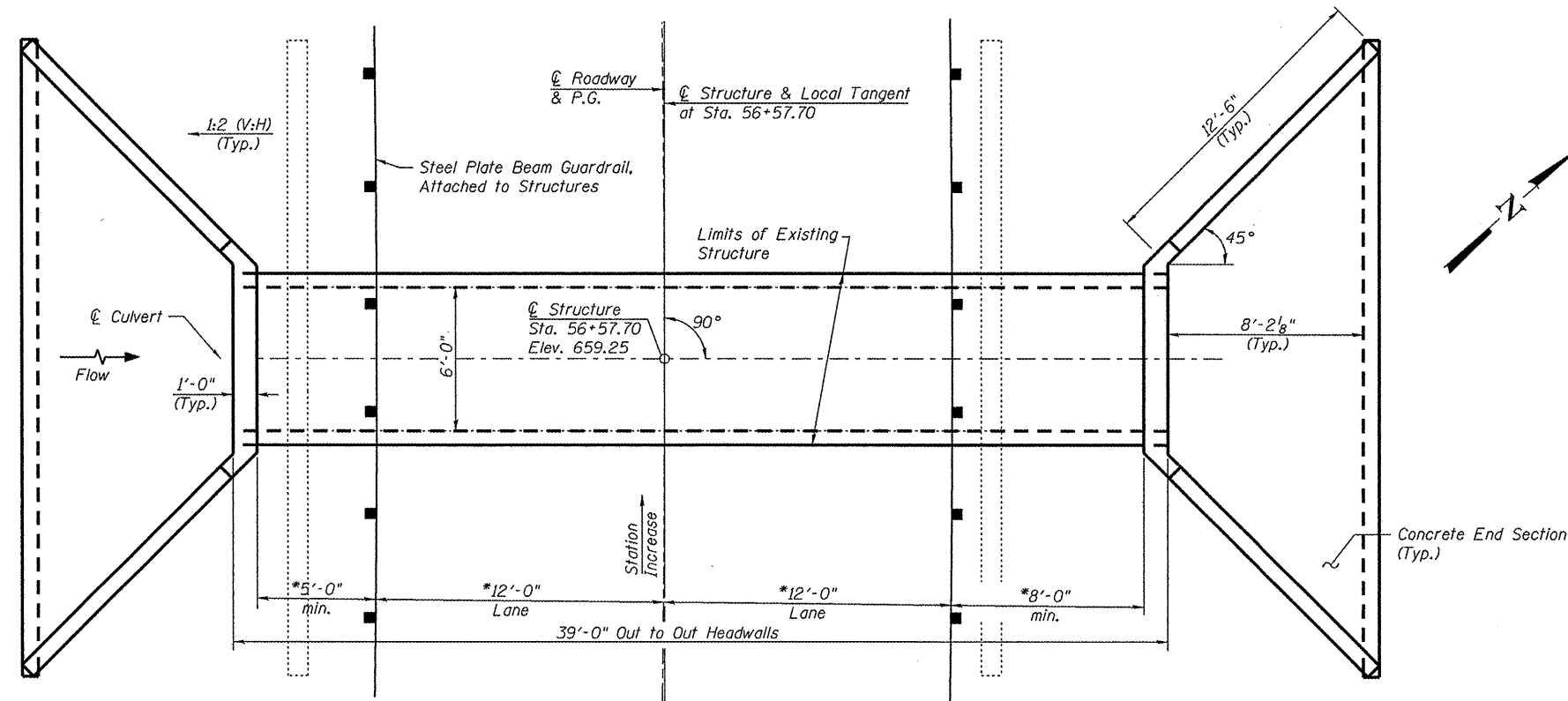
No Salvage

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

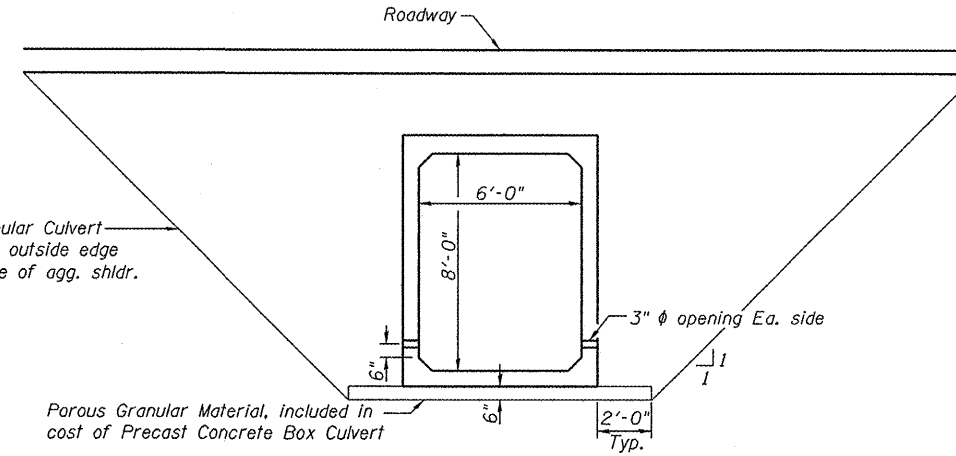


LONGITUDINAL SECTION

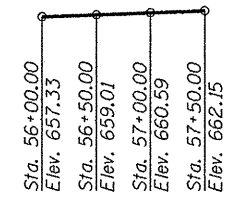
(Dimensions at Rt. L.'s to local tangent, unless noted otherwise)
(Looking North)



PLAN



SECTION THRU BARREL



PROFILE GRADE
(along \bar{C} roadway)

CURVE DATA

$\Delta = 55^\circ 02' 56''$ (LT)
 $D = 5^\circ 30' 35''$
 $T = 541.90'$
 $L = 999.12'$
 $E = 132.72'$
 $R = 1039.90'$
 $S.E. = \text{Match Existing}$
 $P.C. = \text{Sta. } 55+30.30$
 $P.T. = \text{Sta. } 65+29.42$
 $P.I. = \text{Sta. } 60+72.20$

LOADING HS20-44
Allow 50#/sq. ft. for future wearing surface.

DESIGN SPECIFICATIONS
2002 AASHTO

DESIGN STRESSES

FIELD UNITS

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

PRECAST UNITS

$f'_c = 5,000$ psi
 $f_y = 65,000$ psi (welded wire fabric)

GENERAL NOTES

1. Precast Concrete Box Culvert Sections shall conform to requirement of Article 540.06 of the Standard Specifications and the applicable requirements of AASHTO M 273.
2. Reinforcement bars shall conform to the requirements of ASTM A 706 Gr. 60. See Special Provisions.
3. Reinforcement bars designated (E) shall be epoxy coated.
4. Lifting holes shall be filled with concrete plugs and mastic after box sections are in place.

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Precast Concrete Box Culvert 6'x 8'	Foot	39.0
Removal of Existing Structures	Each	1
Box Culvert End Sections	Each	2
Granular Culvert Backfill	Cu. Yd.	222.3



Michael T. Haley 10-1-09
 Michael T. Haley
 Licensed Structural Engineer
 State of Illinois No. 81-5991
 Expires 11/30/2010

CULVERT DETAILS
STATION 56+57.70

LE LIN ENGINEERING, LTD.
 Consulting Engineers
 Chatham, Illinois

SHEET NO. 1
 3 SHEETS

S.B.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
16A	(21[FR*1])ACB	MONTGOMERY	20	13
CONTRACT NO. 72B73				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				