

BENCHMARK: (BM#410) Chisled Square in traffic controller, Right side of CL IL 173 STA. 1058+48.15', 69.33' RT., ELEV. = 757.95.
 EXISTING STRUCTURE: Triple 84" EORS Arch Pipe, 96ft in Length, on a 0° skew.
 TRAFFIC CONTROL METHOD: Staged Construction.
 SALVAGE: None

DESIGN SPECIFICATIONS
 AAASHTO LRFD Bridge Design Specifications,
 5th Edition with 2010 Interim Revisions

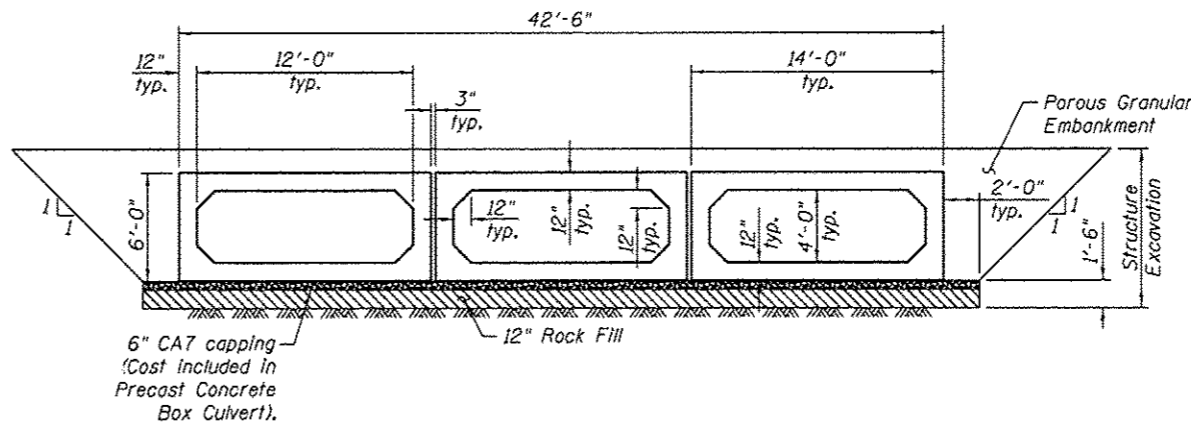
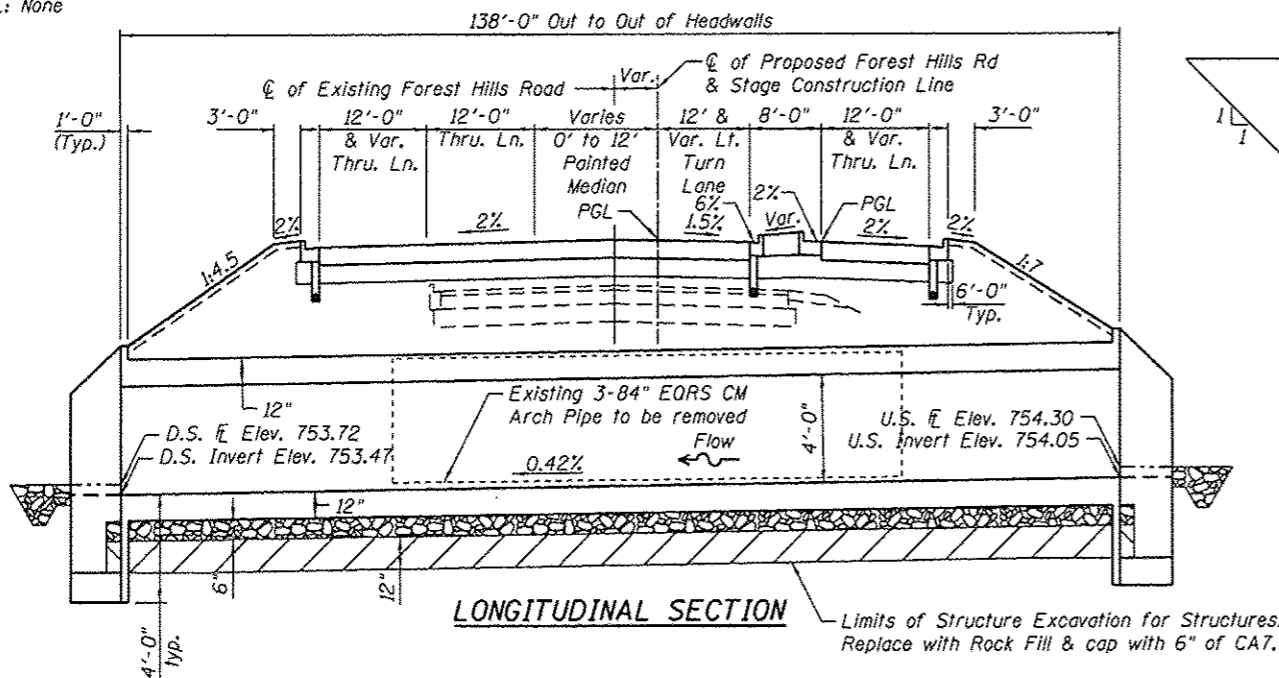
DESIGN STRESSES
FIELD UNITS

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

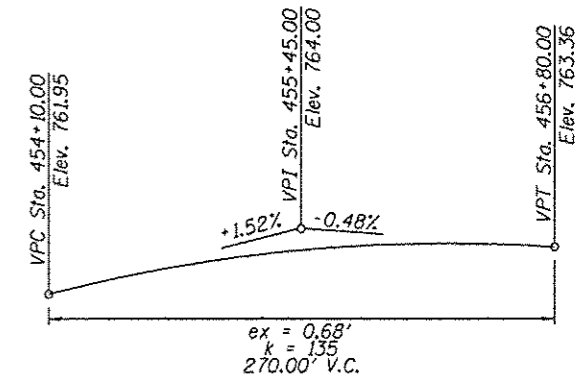
LOADING HL-93

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
 Design Spectral Acceleration at 1.0 sec. (S_{D1}) = .076g
 Design Spectral Acceleration at 0.2 sec. (S_{D5}) = .125g
 Soil Site Class = D



SECTION THROUGH PRECAST BARREL



PROFILE GRADE
 (along CL roadway)

DESIGN SCOUR ELEVATION TABLE

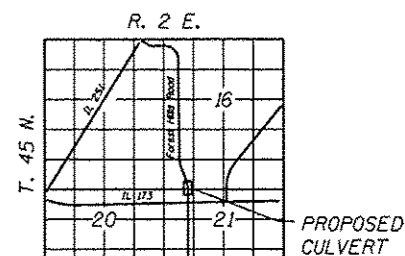
Design Scour Elevation (ft.)	Upstream	Downstream
	750.30	749.72

GENERAL NOTES

- Reinforcement bars shall conform to the requirements of ASTM A 706 Grade 60. See Special Provisions.
- Precast Concrete box culvert sections shall conform to the requirement of article 540.06 of the Standard Specifications and the applicable requirement of ASTM C 1577.
- The removal and replacement required for the culvert barrel installation is based on the recommendation of the District Geotechnical Engineer. Limits and quantities of removal and replacement may adjust based on conditions encountered in the field when approved by the Engineer.
- Lifting holes shall be filled with concrete plugs and mastic after box sections are in place.
- Exposed edges shall have a $\frac{3}{4}$ " chamfer.
- Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
- Prior to commencing work, the Contractor shall verify the location of all existing utilities. Work shall be completed in such a manner so as not to disturb or damage the existing utilities.
- Reinforcement bars designated (E) shall be epoxy coated.

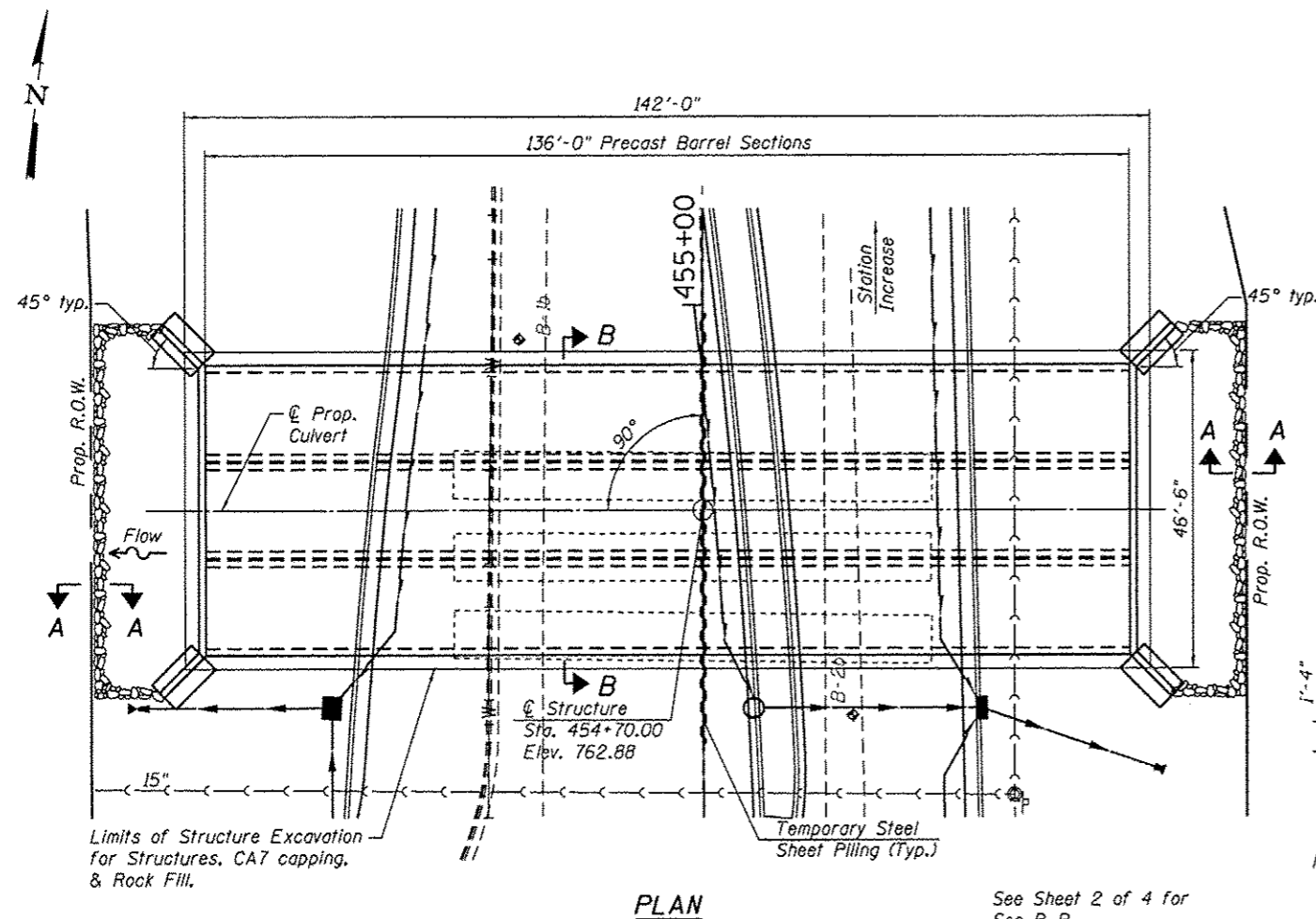
INDEX OF SHEETS

- General Plan
- Staging Details
- Cast-In-Place End Section Details
- Soil Boring Logs



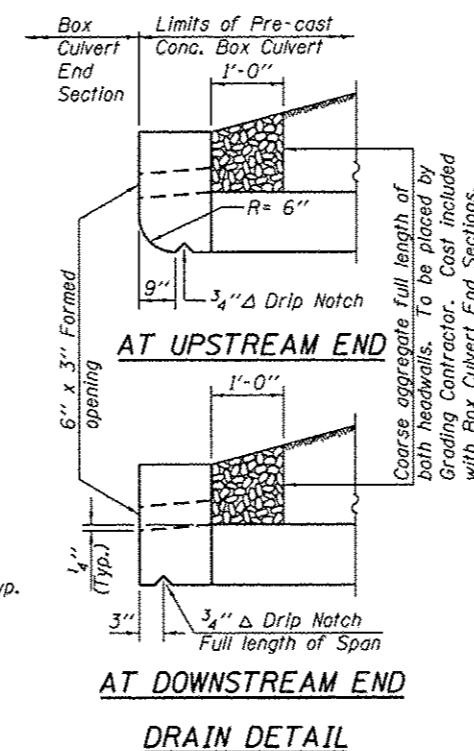
LOCATION SKETCH

GENERAL PLAN
FOREST HILLS ROAD OVER
UNNAMED TRIBUTARY
TO WILLOW CREEK
SECTION 129R
WINNEBAGO COUNTY
STATION 454+70
STRUCTURE NO. 101-1323

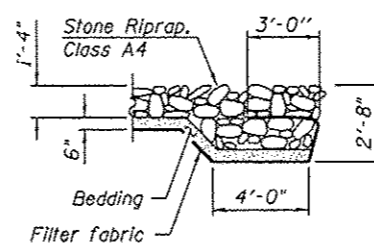


PLAN

See Sheet 2 of 4 for Sec B-B



DRAIN DETAIL



SECTION A-A

STATE OF ILLINOIS
 DAVID BOOHER
 4775
 LICENSED PROFESSIONAL ENGINEER
 EXPIRES: 11/30/14

STATION 454+70.00
 BUILT 20 BY
 STATE OF ILLINOIS
 F.A.P. RT 303 SEC. 129R
 LOADING HL-93
 STRUCTURE NO. 101-1323

NAME PLATE
 See Std. 515001

FILE NAME = 1812020-62N13-201-CP.dwg
 MODEL = Default
 PLOT DRIVER = Y81_Shppl_IDOT_Bhp.plt

QEI
 QUIGG ENGINEERING INC

USER NAME	DESIGNED	REVISOR
RJP	RJP	
DRB	DRB	
JTF	JTF	
DRB	DRB	

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

GENERAL PLAN
FOREST HILLS ROAD OVER UNNAMED TRIBUTARY

SHEET NO. 1 OF 4 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	129R	WINNEBAGO	96	100

CONTRACT NO. 64988
 ILLINOIS FED. AID PROJECT