

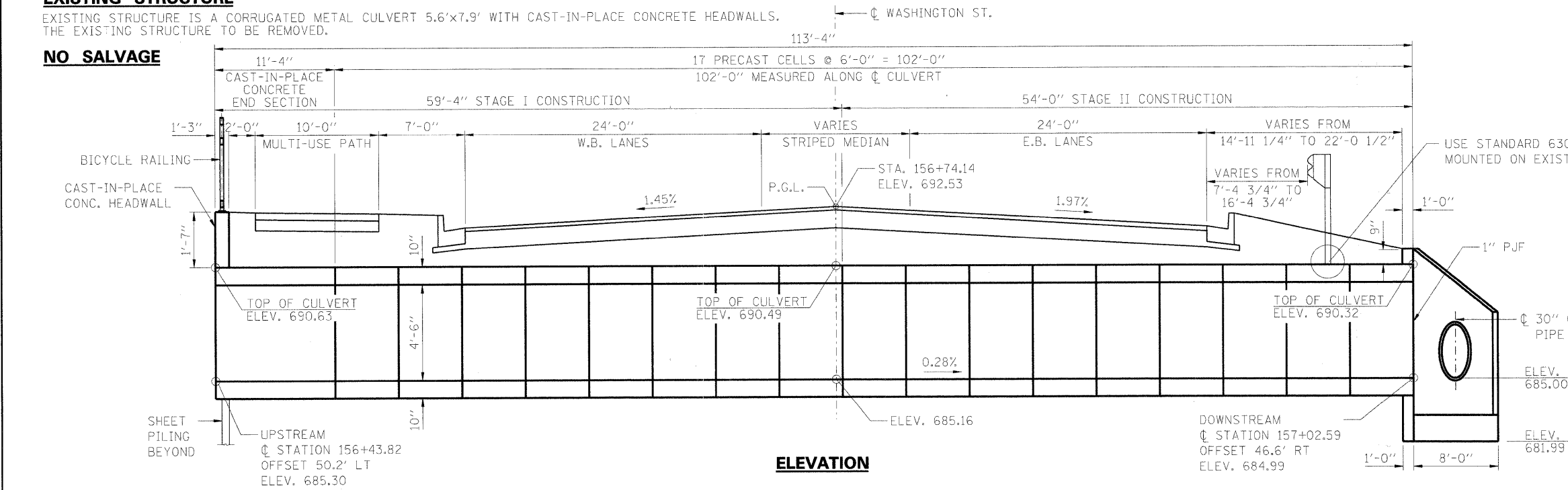
PROPOSED STRUCTURE

THE PROPOSED STRUCTURE IS A SINGLE BARREL PRECAST CONCRETE 10'x4.5' CULVERT WITH CAST-IN-PLACE CONCRETE END SECTIONS. THE NORTH END WINGWALLS ARE SHEET PILE RETAINING WALLS WITH CAST-IN-PLACE CONCRETE CAP. THE WINGWALL AT THE SOUTH END IS A CAST-IN-PLACE CONCRETE T-WALL THAT ENDS AT AN EXISTING GABION WALL. THE PROPOSED STRUCTURE TO BE CONSTRUCTED IN TWO STAGES TO MAINTAIN TRAFFIC ON WASHINGTON ST.

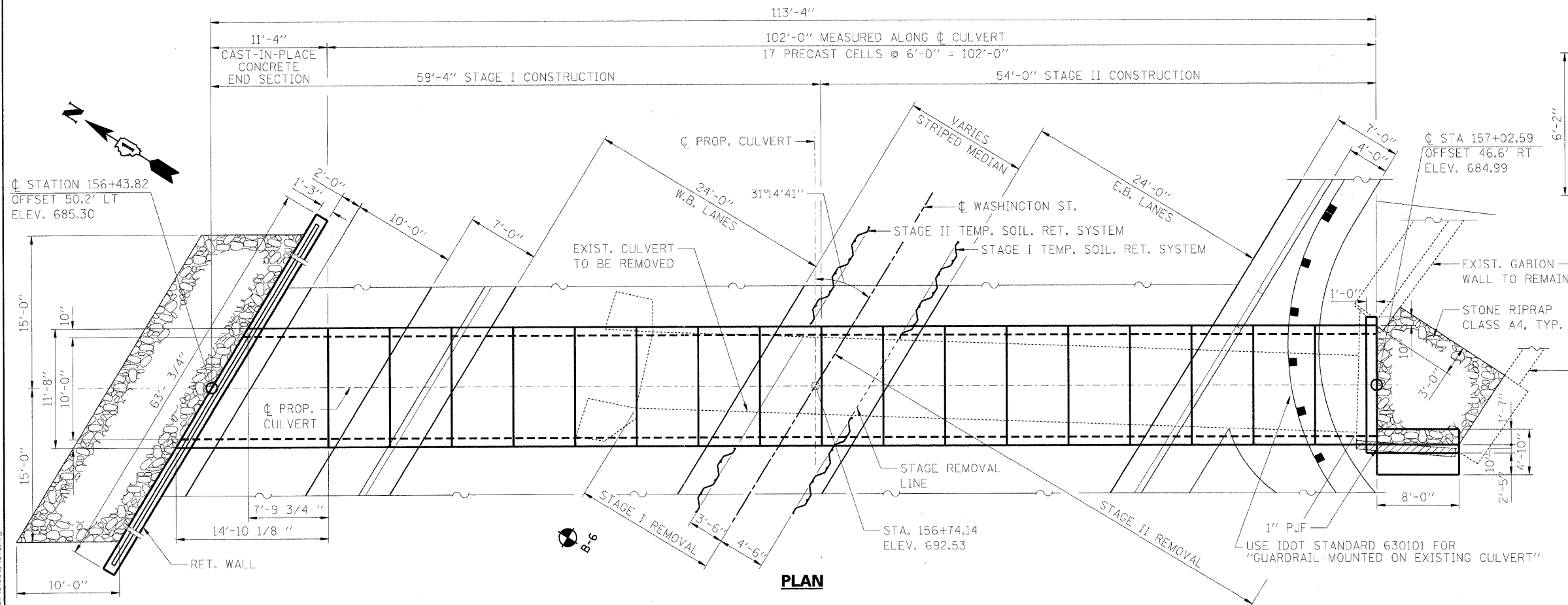
EXISTING STRUCTURE

EXISTING STRUCTURE IS A CORRUGATED METAL CULVERT 5.6'x7.9' WITH CAST-IN-PLACE CONCRETE HEADWALLS. THE EXISTING STRUCTURE TO BE REMOVED.

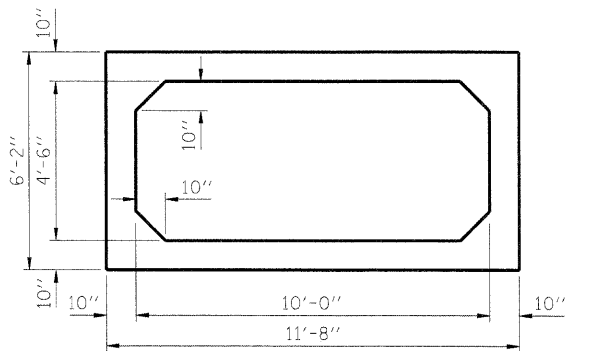
NO SALVAGE



ELEVATION



PLAN



SECTION THRU PRECAST BARREL

DESIGN SPECIFICATIONS

AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, 17TH EDITION, 2002

LOADING HS 20-44

DESIGN STRESSES

f'c = 3,500 psi
fy = 60,000 psi (REINFORCEMENT)

PRECAST UNITS

f'c = 5,000 psi
fy = 65,000 psi (WELDED WIRE FABRIC)

SEISMIC DATA

SEISMIC PERFORMANCE CATEGORY (SPC) = A
BEDROCK ACCELERATION COEFFICIENT (A) = 0.04
SITE COEFFICIENT (S) = 1.5

NOTES:

1. THE PRECAST CULVERT SHALL BE DESIGNED IN ACCORDANCE WITH AASHTO M273.
2. REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF THE AASHTO M31, M42 OR M53 GRADE 60.
3. PRECAST END SECTIONS WILL NOT BE ALLOWED.
4. SHEET PILES SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M202.

<p>CMT CRAWFORD, MURPHY & TULLY, INC. CONSULTING ENGINEERS License No. 084-00063</p>	USER NAME = Steve Prange PLOT SCALE = 6.0000 "/>	DESIGNED - AT1 DRAWN - PA CHECKED - KDN DATE - 05/29/09	REVISED - REVISED - REVISED - REVISED -	<p>Lake County Division of Transportation</p>	PROPOSED BOX CULVERT DETAILS STATION 156+74		F.A. RTE. 1016 SECTION 02-00110-12-WR COUNTY LAKE TOTAL SHEETS 206 SHEET NO. 114 CONTRACT NO. 63209
	PLOT DATE = 05/29/09	SCALE: N/A SHEET NO. 1 OF 2 SHEETS STA. N/A TO STA. N/A	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				