

Benchmark: Set at sta. 75+17.70, 39.62 Rt., Elev. 645.47 "x" located on existing sidewalk southwest corner of existing entrance west of the 6'x4' culvert.

Exist. Structure: Originally built in 1942 with a length of 79'-9" and was extended to the south in a rehabilitation project to be approximately 88'-6" long (sta. 78+69.39). It is a single cell cast-in-place reinforced concrete box culvert with 4' span x 2'-6" rise and a 35° skew angle. Structure to be removed and replaced. One lane of traffic shall be maintained in each bound at all times utilizing stage construction.

Salvage: Existing steel plate beam guardrail and chain link fence.

DESIGN SPECIFICATIONS

2012 AASHTO LRFD Bridge Design Specifications, 6th Edition, with 2012 Interims

LOADING HL-93

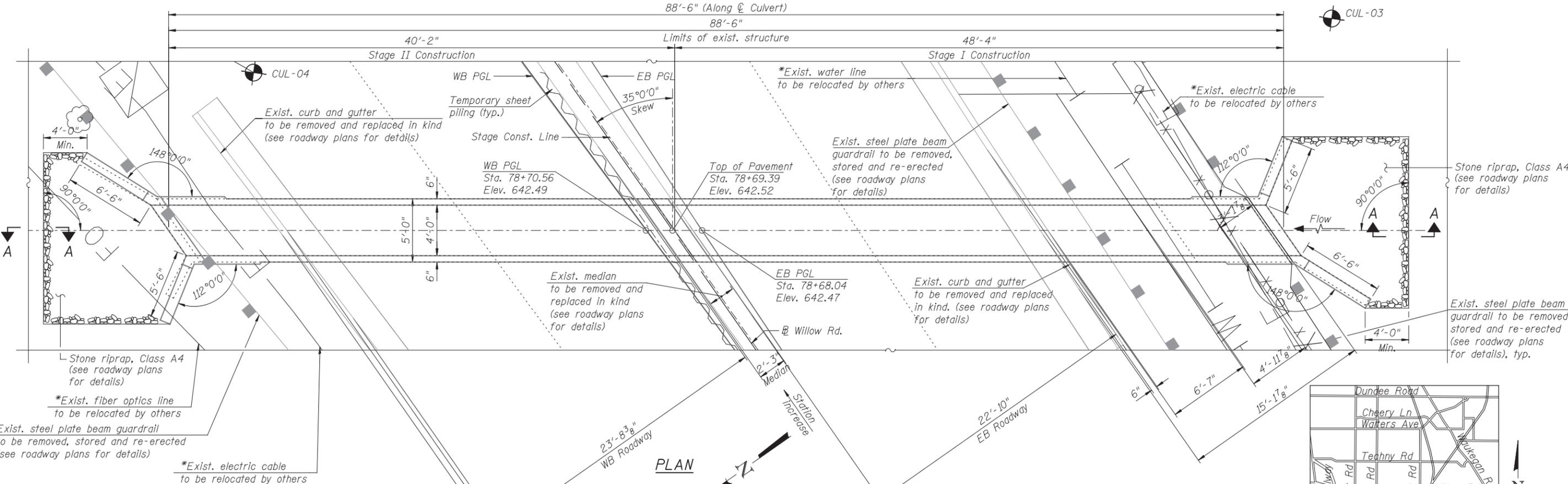
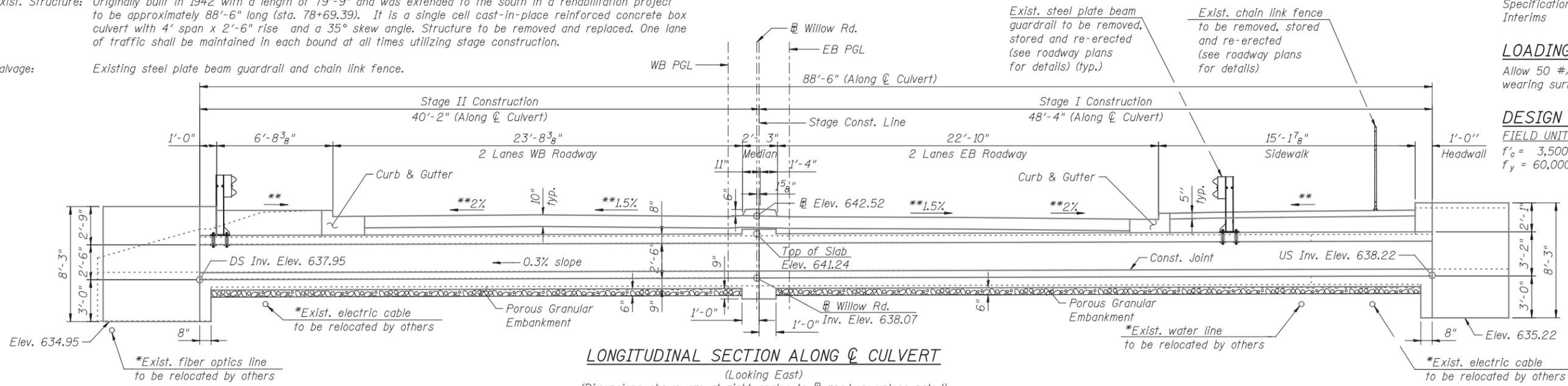
Allow 50 #/sq. ft. for future wearing surface.

DESIGN STRESSES

FIELD UNITS
 f'c = 3,500 psi (Concrete)
 fy = 60,000 psi (Reinforcement)

LEGEND

Soil boring location



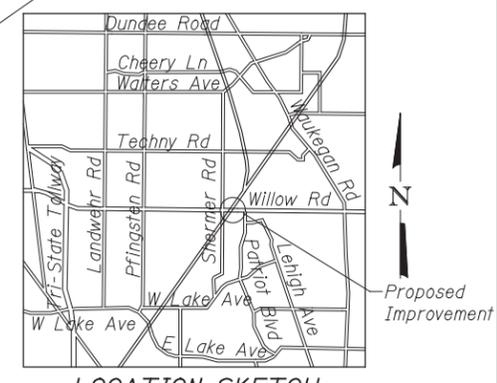
* Existing utilities within the project limits are located based on the field survey. The exact elevations/locations of these utilities in the vertical direction are unknown (i.e., above or below the culverts). These utilities shall be protected or relocated by others. It shall be the Contractor's responsibility to field verify all locations and elevations of utilities prior to starting work. Any damage to the utilities caused by the Contractor in the performance of his/her work shall be repaired at no cost to the Owner.

** All slopes shall match existing conditions

- NOTE:**
1. For General Notes, Index of Sheets and Total Bill of Material, see Sheet S2-02.
 2. For Section A-A, see Sheet S2-02.
 3. Precast culvert will not be allowed.
 4. For the westbound and eastbound profile grade lines, see Sheet S2-02.



Signed *Moussa A. Issa*
 Dr. Moussa A. Issa, S.E. Il. Lic. No. 081-005738
 Expires 11-30-2014
 Date 12/24/2012 For Sheets S2-01 Thru S2-10



HBM
 ENGINEERING GROUP, LLC
 4415 WEST HARRISON ST.
 SUITE 231
 HILLSIDE, IL 60162
 PHONE: (708) 236-0900
 FAX: (708) 236-0901

DESIGNED - MI, JJS	REVISED -
CHECKED - MI	REVISED -
DRAWN - WM, AI	REVISED -
CHECKED - MAI, MI	REVISED -

DATE - 12/24/2012

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
BOX CULVERT (4'-0" x 2'-6") - STA. 78 + 69.39

F.A.P. RTE. 305	SECTION 1920.01-B-R	COUNTY COOK	TOTAL SHEETS 60	SHEET NO. 37
CONTRACT NO. 60W04			ILLINOIS FED. AID PROJECT	