Bench Mark: Chisel "X" on S. flange bolt of F.H. on W. side of Peoria Street first F.H. S. of Van Buren Street.
Elev. 594.37

Existing Structure: SN 016-2082. Constructed in 1950 under F.A. Route 131 Section 2525.1-1B. Three span bridge that measures 219'-8" from back-to-back of abutments. Out-to-out width of 56'-4". The spans are supported by 36" wide flange steel I-beams. Substructure is reinforced concrete piers and abutments on creosoted timber piles. The existing bridge is to be removed and replaced.

The bridge will be closed to pedestrian traffic and detoured during construction.

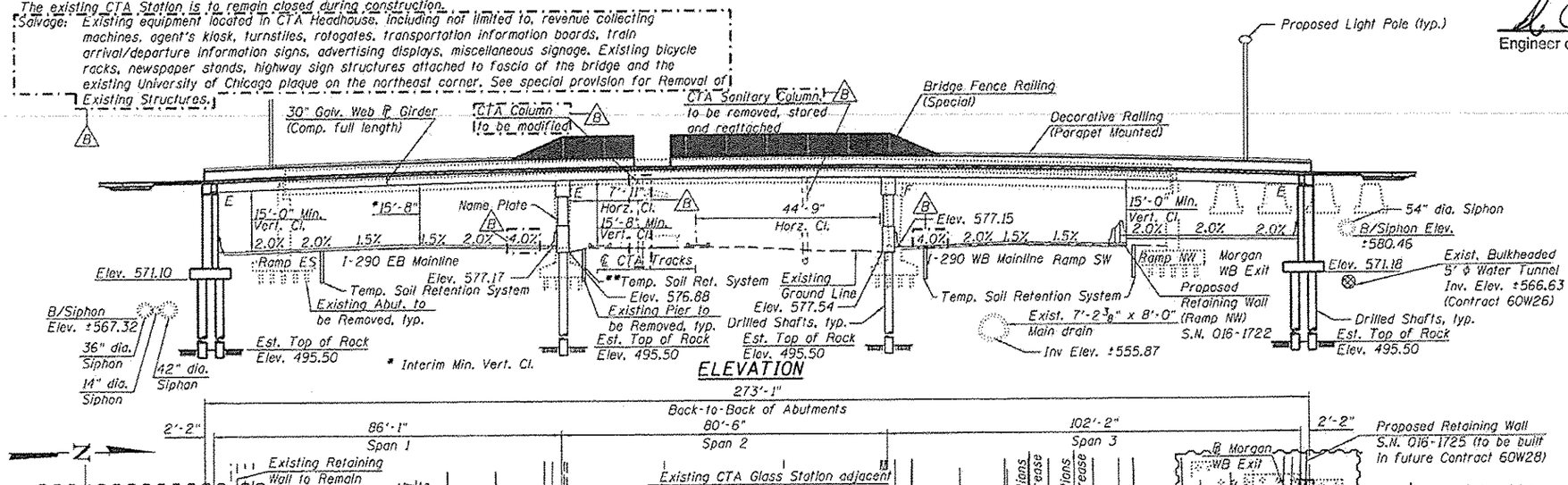
The existing CTA Station is to remain closed during construction.

Salvage: Existing equipment located in CTA Headhouse, including not limited to, revenue collecting machines, agent's kiosk, turnstiles, rotogates, transportation information boards, train arrival/departure information signs, advertising displays, miscellaneous signage. Existing bicycle racks, newspaper stands, highway sign structures attached to fascia of the bridge and the existing University of Chicago plaque on the northeast corner. See special provision for Removal of Existing Structures.

APPROVED
For Structural Adequacy Only
Engineer of Bridges & Structures

DAJIN LIU
081-005944
LICENSED STRUCTURAL ENGINEER
STATE OF ILLINOIS

DAJIN LIU, P.E., S.E.
NO. 081-005944
EXP. DATE 11/30/2014
10/10/13



Note:
For limits of Protective Shield, See Sheet 7 of 55.
See Sheet 3 for Legend.

** Construction of Pier 1 is adjacent to the EB CTA Blue Line track. Construction activities require a modification to the normal operation of CTA service to facilitate access to perform work on or near the CTA Right-of-Way will be allowed with CTA Track Access Occurrences. See Special Provision for CTA Flagging and Coordination.

LOADING HL-93

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

DESIGN SPECIFICATIONS

2012 AASHTO LRFD Bridge Design Specifications
6th Edition, with 2013 Interim Revisions

DESIGN STRESSES

FIELD UNITS

f'c = 3,500 psi
f'c = 21,000 psi (Ultra-High Performance Concrete)
fy = 60,000 psi (Reinforcement)
fy = 50,000 psi (M270 Grade 50)
fy = 36,000 psi (M270 Grade 36)

PRECAST UNITS

f'c = 5,000 psi

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. (SD1) = 0.086g
Design Spectral Acceleration at 0.2 sec. (SDS) = 0.153g
Soil Site Class = D

GENERAL PLAN & ELEVATION
PEORIA STREET OVER
F.A.I. 290 (EISENHOWER EXPRESSWAY) AND CTA
MUN 2090 SECTION 2013-011R
COOK COUNTY
STATION 3703+94.18
STRUCTURE NO. 016-1708

USER NAME = rlachultz	DESIGNED	WJC	REVISED Δ 2/10/2014	KAH/MDS
	CHECKED	KAH/MDS/OL	REVISED	
PLOT SCALE = 32.0000 '/' / In.	DRAWN	WJC	REVISED	
PLOT DATE = 2/7/2014	CHECKED	KAH/MDS/OL	REVISED	

TranSystems

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET NO. 1 OF 55 SHEETS

MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2090	2013-011R	COOK	356	133
		CONTRACT NO.		60W29
		ILLINOIS FED. AID PROJECT		

5/06/23 PW
016108-60W29-S001-GPE.dgn