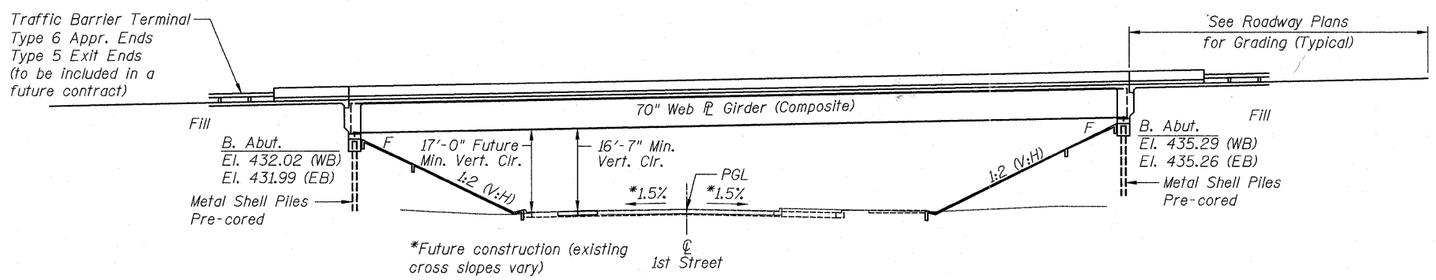
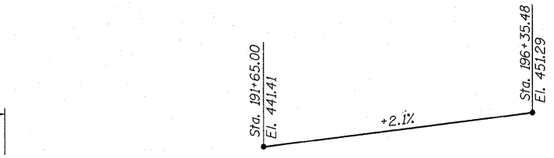
Benchmark: (0017-01): RR spike in P.P. with light NW quadrant St. Clair & 1st Street
Elev. 422.11 St. Clair Sta. 86+61 Offset 30.0' Lt.

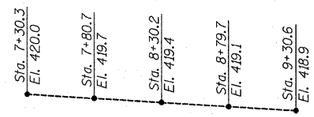
No Existing Structure. Traffic will be maintained on 1st Street using stage construction.



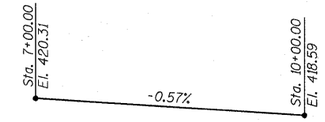
ELEVATION



PROFILE GRADE
I-70
(Offset 7'-6" from ℄ I-70)



EXISTING PROFILE GRADE
1st STREET
(@ ℄ Roadway)



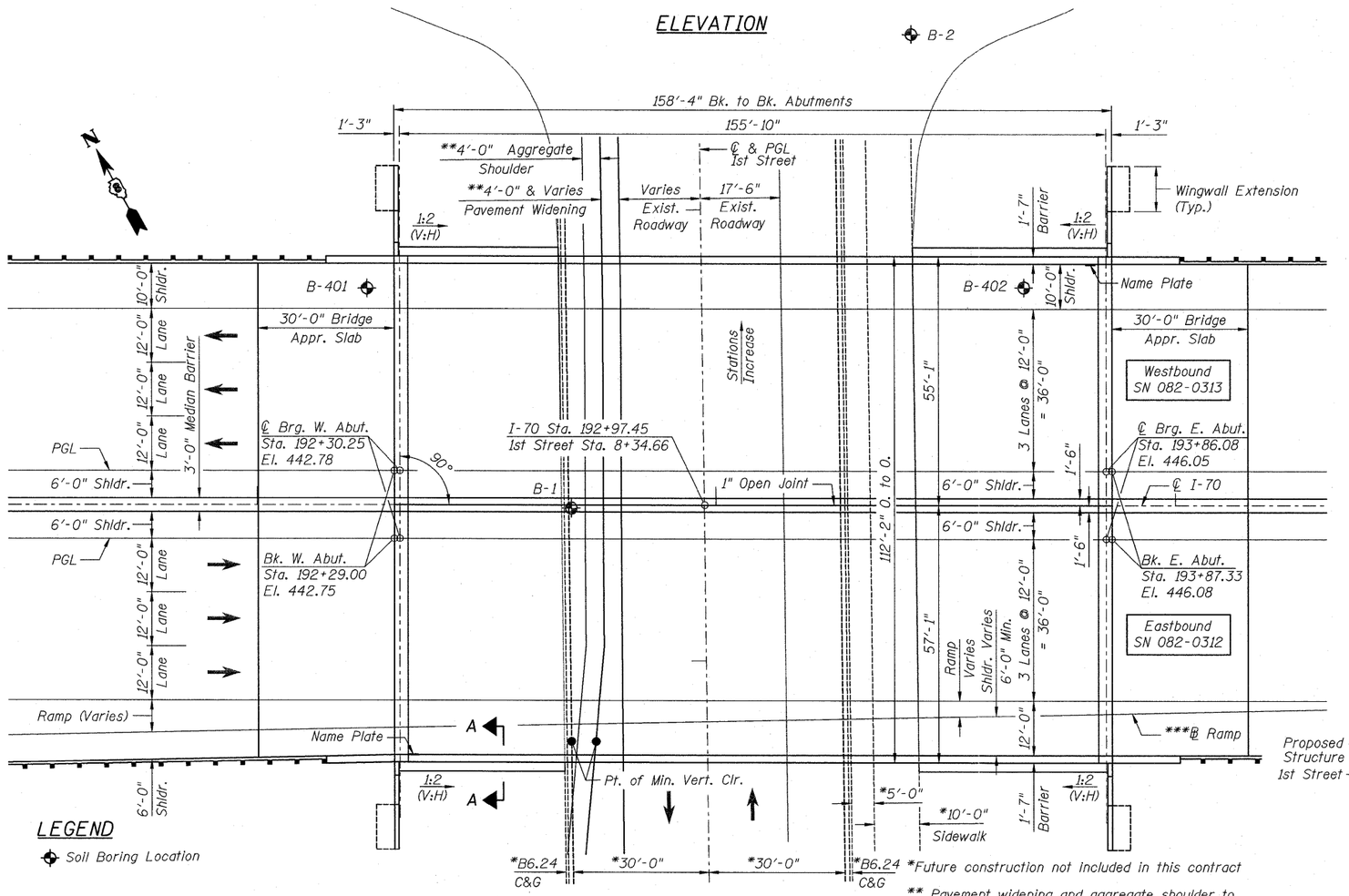
*FUTURE PROFILE GRADE
1st STREET
(@ ℄ Roadway)
*Future construction not included in this contract

LOADING HL-93
Allow 50#/sq. ft. for future wearing surface

DESIGN SPECIFICATIONS
2007 AASHTO LRFD Bridge Design Specifications with 2008 Interims

DESIGN STRESSES
FIELD UNITS
f'_c = 3,500 psi
f_y = 60,000 psi (reinforcement)
f_y = 50,000 psi (M270 Grade 50)

SEISMIC DATA
Seismic Performance Zone (SPZ) = 2
Design Spectral Acceleration @ 1.0 sec (SD1) = .24g
Design Spectral Acceleration @ 2.0 sec (SDS) = .54g
Soil Site Class = D



PLAN

*Future construction not included in this contract

** Pavement widening and aggregate shoulder to be constructed in Contract 76C40

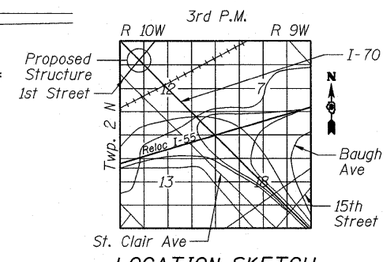
***The ramp taper begins at Sta. 185+31.75, 63.50' Rt. and ends at Sta. 194+80.00, 44.50' Rt.

LEGEND
Soil Boring Location

STATE OF ILLINOIS
DEBORAH A. ZROKA
081-005152
LICENSED STRUCTURAL ENGINEER

Signature — Date Mar. 18, 2011
Expires November 30, 2012

APPROVED
FOR STRUCTURAL ADEQUACY ONLY
ENGINEER OF BRIDGES AND STRUCTURES



LOCATION SKETCH

GENERAL PLAN & ELEVATION
INTERSTATE 70 OVER 1ST STREET
FAI-70
SECTION 82-1-2HB
ST. CLAIR COUNTY
STA. 192+97.45
STRUCTURE NO. 082-0312 (EB)
STRUCTURE NO. 082-0313 (WB)

ZROKA engineering
Zroka Engineering, P.C.
4216 North Hermitage
Chicago, IL 60613

FILE NAME = ...\D8TRI-0820312-0820313-76C50-001-GPE.dgn	USER NAME = SAW	DESIGNED - LAS	REVISED -
		DRAWN - SAW	REVISED -
	PLOT SCALE = 2.0000 ' / IN.	CHECKED - LAS	REVISED -
	PLOT DATE = 3/8/2011	DATE - 3-18-11	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN & ELEVATION

SCALE: NONE | SHEET NO. 1 OF 30 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-1-2HB	ST. CLAIR	72	31
SN 082-0312 & 082-0313		CONTRACT NO. 76C50		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		