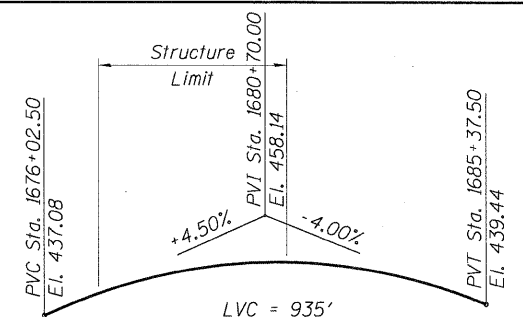
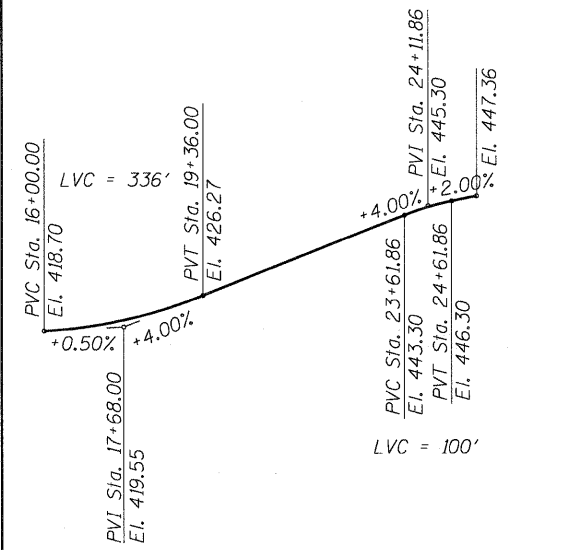


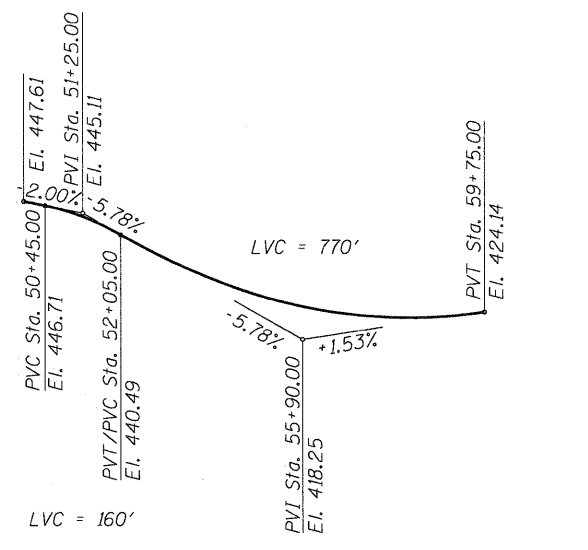
**PROFILE GRADE F.A.P. RTE 998
(RELOCATED I-70)**



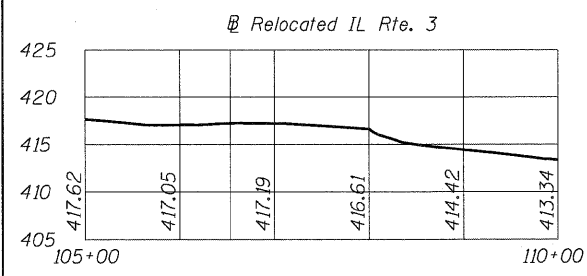
PROFILE GRADE @ RELOCATED IL-3



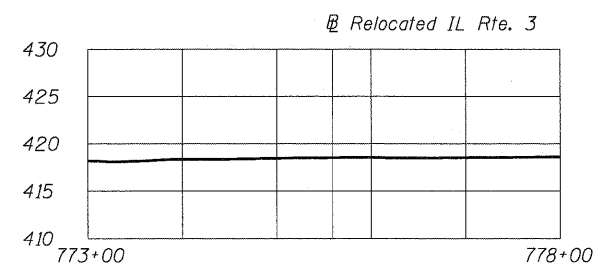
PROFILE GRADE @ RAMP A



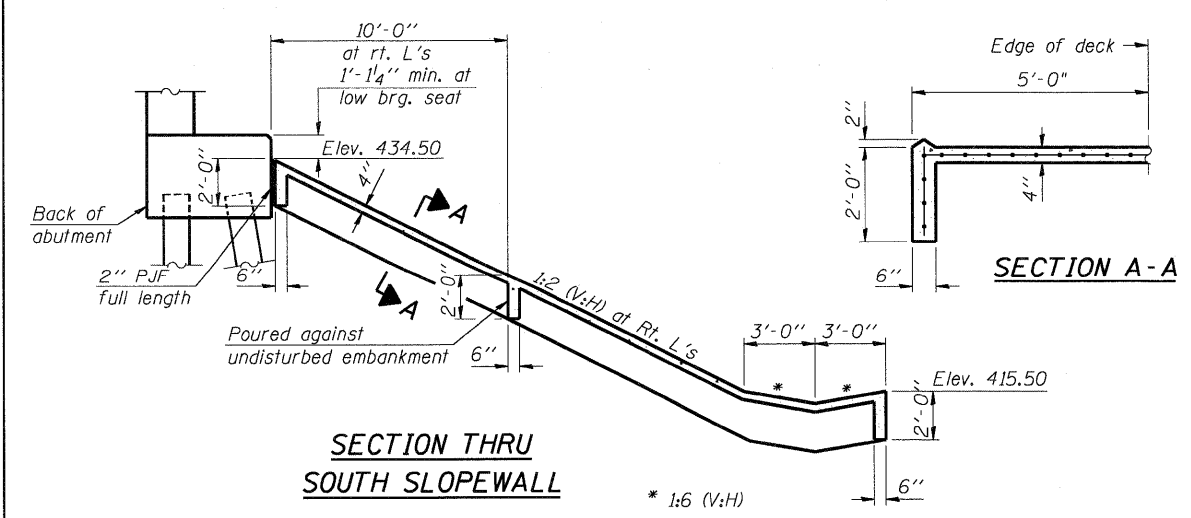
PROFILE GRADE @ RAMP B



ST. CLAIR AVE. PROFILE



TRRA MAINLINE PROFILE



SECTION THRU SOUTH SLOPEWALL

INDEX OF SHEETS

- SB-1 General Plan
- SB-2 General Data
- SB-3 Foundation Layout
- SB-4 Top of Slab Elevations, 1 of 5
- SB-5 Top of Slab Elevations, 2 of 5
- SB-6 Top of Slab Elevations, 3 of 5
- SB-7 Top of Slab Elevations, 4 of 5
- SB-8 Top of Slab Elevations, 5 of 5
- SB-9 Top of Approach Slab Elevations
- SB-10 Deck Plan, 1 of 3
- SB-11 Deck Plan, 2 of 3
- SB-12 Deck Plan, 3 of 3
- SB-13 Deck Cross Sections
- SB-14 Median Details, 1 of 2
- SB-15 Median Details, 2 of 2
- SB-16 Parapet Elevations, 1 of 2
- SB-17 Parapet Elevations, 2 of 2
- SB-18 Deck Details
- SB-19 Deck Bar List
- SB-20 North Approach Slab Plan
- SB-21 Bridge Approach Slab Details
- SB-22 Expansion Joint Details
- SB-23 Framing Plan
- SB-24 Girder Elevations
- SB-25 Girder Tables, 1 of 2
- SB-26 Girder Tables, 2 of 2
- SB-27 Steel Details, 1 of 2
- SB-28 Steel Details, 2 of 2
- SB-29 Bearing Details
- SB-30 South Abutment, Plan & Pile Layout
- SB-31 South Abutment, Elevation & Section
- SB-32 South Abutment, East Wingwall & Details
- SB-33 South Abutment, West Wingwall & Details
- SB-34 Pier 1, Plan & Elevation
- SB-35 Pier 1, Sections & Details
- SB-36 Pier 2, Plan & Elevation
- SB-37 Pier 2, Sections & Details
- SB-38 North Abutment, Plan & Pile Layout
- SB-39 North Abutment, Elevation & Sections
- SB-40 North Abutment, East Wingwall & Details
- SB-41 North Abutment, West Wingwall & Details
- SB-42 Bar Splicer Details
- SB-43 Drainage Scupper, DS-11
- SB-44 Bridge Fence Railing Details
- SB-45 Metal Shell Pile Details
- SB-46 Soil Boring Logs, 1 of 18
- SB-47 Soil Boring Logs, 2 of 18
- SB-48 Soil Boring Logs, 3 of 18
- SB-49 Soil Boring Logs, 4 of 18
- SB-50 Soil Boring Logs, 5 of 18
- SB-51 Soil Boring Logs, 6 of 18
- SB-52 Soil Boring Logs, 7 of 18
- SB-53 Soil Boring Logs, 8 of 18
- SB-54 Soil Boring Logs, 9 of 18
- SB-55 Soil Boring Logs, 10 of 18
- SB-56 Soil Boring Logs, 11 of 18
- SB-57 Soil Boring Logs, 12 of 18
- SB-58 Soil Boring Logs, 13 of 18
- SB-59 Soil Boring Logs, 14 of 18
- SB-60 Soil Boring Logs, 15 of 18
- SB-61 Soil Boring Logs, 16 of 18
- SB-62 Soil Boring Logs, 17 of 18
- SB-63 Soil Boring Logs, 18 of 18

DESIGN SPECIFICATIONS

2010 AASHTO LRFD Bridge Design Specifications, 5th Edition

DESIGN STRESSES

FIELD UNITS
 $f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)
 $f_y = 50,000$ psi (M270 Grade 50, Primary Members)
 $f_y = 36,000$ psi (M270 Grade 36, Secondary Members)

LOADING HL-93

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

STATION 1679+16.65
 BUILT 201. BY
 STATE OF ILLINOIS
 F.A.P. RTE. 14 SEC. 82-2-1HVB-1
 LOADING HL-93
 STRUCTURE NO. 082-0329

NAME PLATE
 See Std. 515001

SEISMIC DATA*
 Soil Site Class = D

Return Period, Tr [yrs]	1000
Design Spectral Accel. at 1.0 sec, SD1 [g]	0.20
Design Spectral Accel. at 0.2 sec, SDS [g]	0.39
Importance Category	Essential
Seismic Performance Zone	2

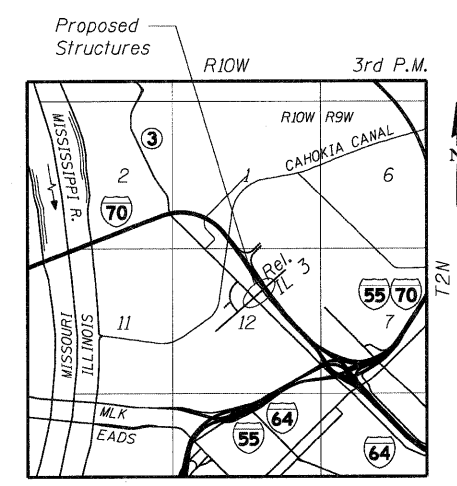
* Seismic Data based on site-specific analysis.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Structure Excavation	Cu Yd		644	644
Concrete Structures	Cu Yd	29.6	769.8	799.4
Concrete Superstructure	Cu Yd	1,026.3		1,026.3
Bridge Deck Grooving	Sq Yd	1,977		1,977
Protective Coat	Sq Yd	3,455		3,455
Furnishing and Erecting Structural Steel	L Sum	0.80		0.80
Stud Shear Connectors	Each	16,713		16,713
Reinforcement Bars, Epoxy Coated	Pound	248,150	106,020	354,170
Bar Splicers	Each		145	145
Bridge Fence Railing	Foot	905		905
Slope Wall 4"	Sq Yd		422	422
Furnishing Metal Shell Piles 14"x0.250"	Foot		6,136	6,136
Driving Piles	Foot		6,136	6,136
Test Pile Metal Shells	Each		4	4
Name Plates	Each	1		1
Preformed Joint Strip Seal	Foot		141	141
Elastomeric Bearing Assembly, Type II	Each		21	21
Anchor Bolts, 1"	Each		42	42
Anchor Bolts, 1 1/2"	Each		80	80
Concrete Sealer	Sq Ft		1,694	1,694
Geocomposite Wall Drain	Sq Yd		53	53
Porous Granular Embankment, Special	Cu Yd		116	116
Drainage Scuppers, DS-11	Each	7		7
Pipe Underdrains for Structures 4"	Foot		107	107

GENERAL NOTES

1. Fasteners shall be AASHTO M164 Type I, mechanically galvanized bolts. Bolts ⁷/₈ in. ϕ , holes ¹⁵/₁₆ in. ϕ , unless otherwise noted.
2. Calculated weight of Structural Steel = 1,159,370 lbs.
 Grade 50 = 1,125,270 lbs.
 Grade 36 = 34,100 lbs.
3. No field welding is permitted except as specified in the contract documents.
4. Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions.
5. Reinforcement bars designated (E) shall be epoxy coated.
6. Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of ¹/₈ inch (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.
7. Concrete Sealer shall be applied to the designated areas of the abutments.
8. The Inorganic Zinc Rich Primer / Acrylic / Acrylic Paint System shall be used for shop and field painting of new structural steel except where otherwise noted. The color of the final finish coat for all interior steel surfaces shall be gray, Munsell No. 5B 7/1. The color of the final finish coat for the exterior and bottom flange of the fascia beams shall be gray, Munsell No. 5B 7/1. See Special Provision for "Cleaning and Painting New Metal Structures".
9. The embankment configuration shown shall be the minimum that must be placed and compacted prior to construction of the abutments.
10. Slope wall shall be reinforced with welded wire fabric, 6 in. x 6 in. - W4.0 x W4.0, weighing 58 lbs per 100 sq ft.
11. Slipforming of the parapets shall not be allowed.
12. Light pole foundations and buried conduit shown on Sht. SB-1 to be installed in this contract. Light poles to be installed by others. See electrical plans.



LOCATION SKETCH

0820329 CONN-10-002-IL DUN... 0820318 CONN-99-001-30.DWG... 5-11-2011 10:52:52
 NEWARK, IL 62454
 TENG & ASSOCIATES, INC.
 ENGINEERS/ARCHITECTS/PLANNERS
 CHICAGO, ILLINOIS

FILE NAME =	USER NAME = USERS	DESIGNED - TCG	REVISED -
#FILE#		DRAWN - TCG	REVISED -
	PLOT SCALE = #SCALE#	CHECKED - JLR	REVISED -
	PLOT DATE = #DATE#	DATE - 05/13/11	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**
 IL 3 OVER
 TRRA & ST. CLAIR AVENUE

GENERAL DATA

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-2-1HVB-1	ST. CLAIR	345	194
SN 082-0329		CONTRACT NO. 76D05		
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

SCALE:	SHEET NO. SB-2 OF SB-63	STA. 1679+16.65 TO STA.
--------	-------------------------	-------------------------