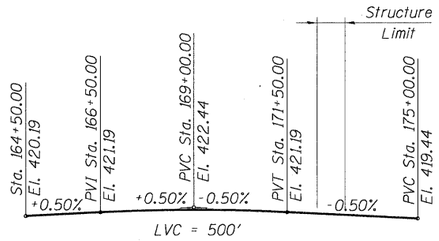
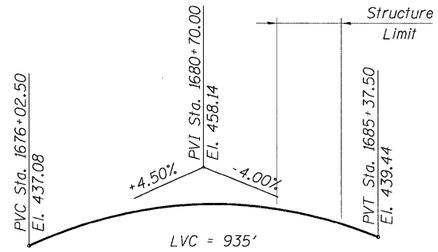
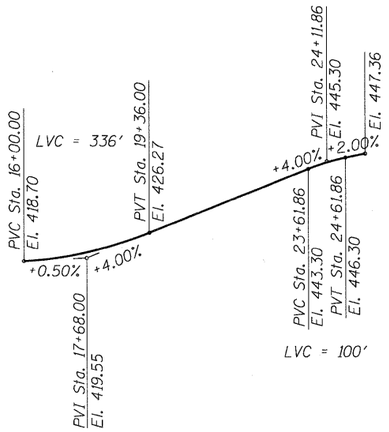


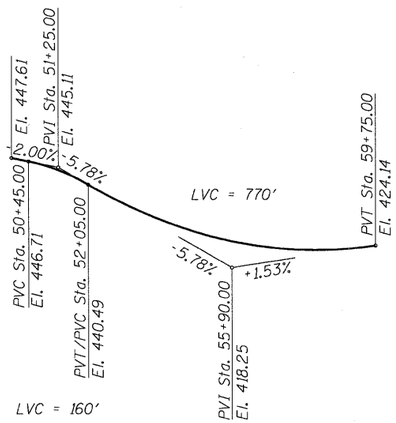
PROFILE GRADE F.A.P. RTE 998 (RELOCATED I-70)



PROFILE GRADE ℄ RELOCATED IL-3



PROFILE GRADE ℄ RAMP A



PROFILE GRADE ℄ RAMP B

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.

CURVE RAMPA-1

P.I. = Sta. 22+26.85
Δ = 8°31'38" (LT)
D = 4°46'29"
R = 1,200.00'
L = 178.60'
T = 89.46'
E = 3.33'
P.C. = Sta. 21+37.39
P.T. = Sta. 23+15.98

CURVE RAMPB-1

P.I. = Sta. 54+64.50
Δ = 1°24'03" (LT)
D = 0°57'18"
R = 6,000.00'
L = 146.70'
T = 73.35'
E = 0.45'
P.C. = Sta. 53+91.15
P.T. = Sta. 55+37.85

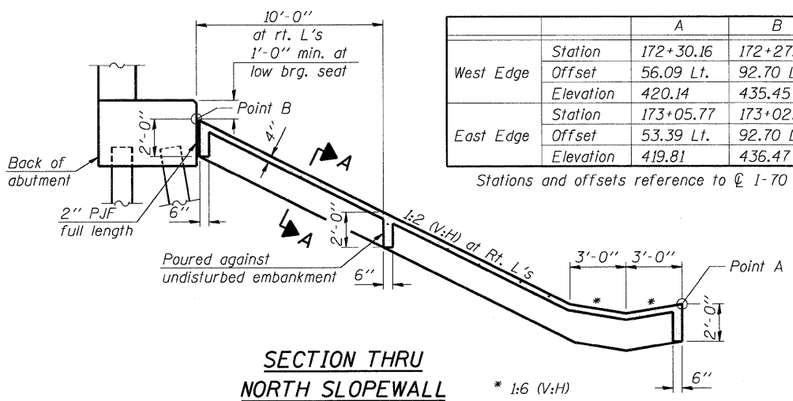
CURVE RAMPB-2

P.I. = Sta. 64+42.05
Δ = 5°06'17" (LT)
D = 1°15'51"
R = 4,532.00'
L = 403.77'
T = 202.02'
E = 4.50'
P.C. = Sta. 62+40.04
P.T. = Sta. 66+43.82

STATION 1683+43.17
BUILT 201_ BY
STATE OF ILLINOIS
F.A.P. RTE. 14 SEC. 82-2-1HVB-1
LOADING HL-93
STRUCTURE NO. 082-0328

NAME PLATE

See Std. 515001

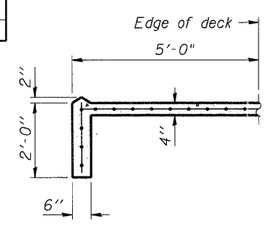


SECTION THRU NORTH SLOPEWALL

* 1:6 (V:H)

		A	B
West Edge	Station	172+30.16	172+27.26
	Offset	56.09 Lt.	92.70 Lt.
	Elevation	420.14	435.45
East Edge	Station	173+05.77	173+02.66
	Offset	53.39 Lt.	92.70 Lt.
	Elevation	419.81	436.47

Stations and offsets reference to ℄ I-70



SECTION A-A

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TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Structure Excavation	Cu Yd		442	442
Concrete Structures	Cu Yd	35.5	464.9	500.4
Concrete Superstructure	Cu Yd	464.8		464.8
Bridge Deck Grooving	Sq Yd	1,343		1,343
Protective Coat	Sq Yd	1,537		1,537
Furnishing and Erecting Structural Steel	L Sum	0.20		0.20
Stud Shear Connectors	Each	5,736		5,736
Reinforcement Bars, Epoxy Coated	Pound	128,540	56,720	185,260
Bar Splicers	Each		138	138
Bridge Fence Railing	Foot	397		397
Slope Wall 4"	Sq Yd		363	363
Furnishing Metal Shell Piles 14"x0.250"	Foot		4,155	4,155
Driving Piles	Foot		4,155	4,155
Test Pile Metal Shells	Each		3	3
Name Plates	Each		1	1
Preformed Joint Strip Seal	Foot		132	132
Elastomeric Bearing Assembly, Type I	Each		17	17
Anchor Bolts, 1"	Each		32	32
Anchor Bolts, 1 1/2"	Each		16	16
Concrete Sealer	Sq Ft		3,552	3,552
Geocomposite Wall Drain	Sq Yd		53	53
Porous Granular Embankment, Special	Cu Yd		122	122
Drainage Scuppers, DS-11	Each	4		4
Pipe Underdrains for Structures 4"	Foot		106	106

GENERAL NOTES

1. Fasteners shall be AASHTO M164 Type 1, mechanically galvanized bolts. Bolts 7/8 in. ϕ, holes 15/16 in. ϕ, unless otherwise noted.
2. Calculated weight of Structural Steel = 284,210 lbs.
   Grade 50 = 261,880 lbs.
   Grade 36 = 22,330 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 and pier.
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 is not allowed.
12. Light pole foundations and buried conduit shown on Sht. SA-1 to be installed in this contract. Light poles to be installed by others. See electrical plans.