

Benchmark: BM#PC3 - 60d Spike in Power Pole at Northeast quad of U.S. 67/IL 104 and Arenzville/Concord Road. Sta. 804+42.4, 108.6' Lt. of Proposed C of Roadway. Elev. 615.941

Existing Structure: None

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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.S. 579	69-3(3HB)	MORGAN	793	324
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SHEET NO. 1 OF 20 SHEETS

Contract No. 72667

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Porous Granular Embankment, Special	Cu. Yd.		322.3	322.3
Structure Excavation	Cu. Yd.		214.1	214.1
Concrete Structures	Cu. Yd.		240.6	240.6
Concrete Superstructure	Cu. Yd.	721.4		721.4
Bridge Deck Grooving	Sq. Yd.	1634		1634
Protective Coat	Sq. Yd.	2141		2141
F & E Precast Prestressed Conc. I-Beams, 54 In.	Foot	2200		2200
Reinforcement Bars, Epoxy Coated	Pound	161780	27520	189300
Slope Wall 4 Inch	Sq. Yd.	713		713
Furnishing Steel Piles, HP 12x63	Foot		1968	1968
Furnishing Steel Piles, HP 14x73	Foot		2448	2448
Driving Piles	Foot		4416	4416
Test Pile, HP 14x73	Each		2	2
Name Plate	Each	1		1
Bar Splicers	Each	138		138
Pipe Underdrains For Structures 4"	Foot		220	220
Concrete Encasement	Cu. Yd.		14.2	14.2

GENERAL NOTES

Reinforcement bars shall conform to the requirements of ASTM A 706 Grade 60. See Special Provisions.
 Reinforcement bars designated (E) shall be epoxy coated.
 The embankment configuration shown shall be the minimum that must be placed and compacted prior to construction of the abutments.
 All embedded and separate bearing plates, side retainers, anchor bolts, nuts, washers, and pintles shall be galvanized according to AASHTO M111 or M232 (as applicable).
 Slopewall shall be reinforced with welded wire fabric, 6" x 6" - W4.0, weighing 58 lbs. per 100 sq.ft.
 Slipforming of the parapets is not allowed.

LOADING HS20-44

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

DESIGN SPECIFICATIONS

2002 A.A.S.H.T.O. Specifications.

DESIGN STRESSES

FIELD UNITS

f'c = 3500 p.s.i.
 fy = 60000 p.s.i. (Reinforcement)
 PRECAST PRESTRESSED UNITS

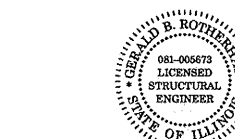
f'c = 6000 p.s.i.
 f'ci = 5000 p.s.i.
 f's = 270000 p.s.i. (1/2" low lax strands)
 fsi = 201960 p.s.i. (1/2" low lax strands)

SEISMIC DATA

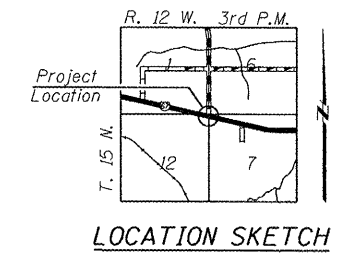
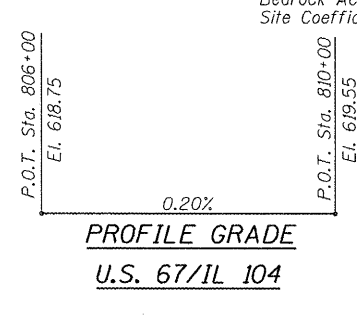
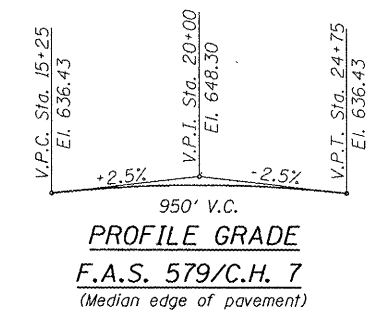
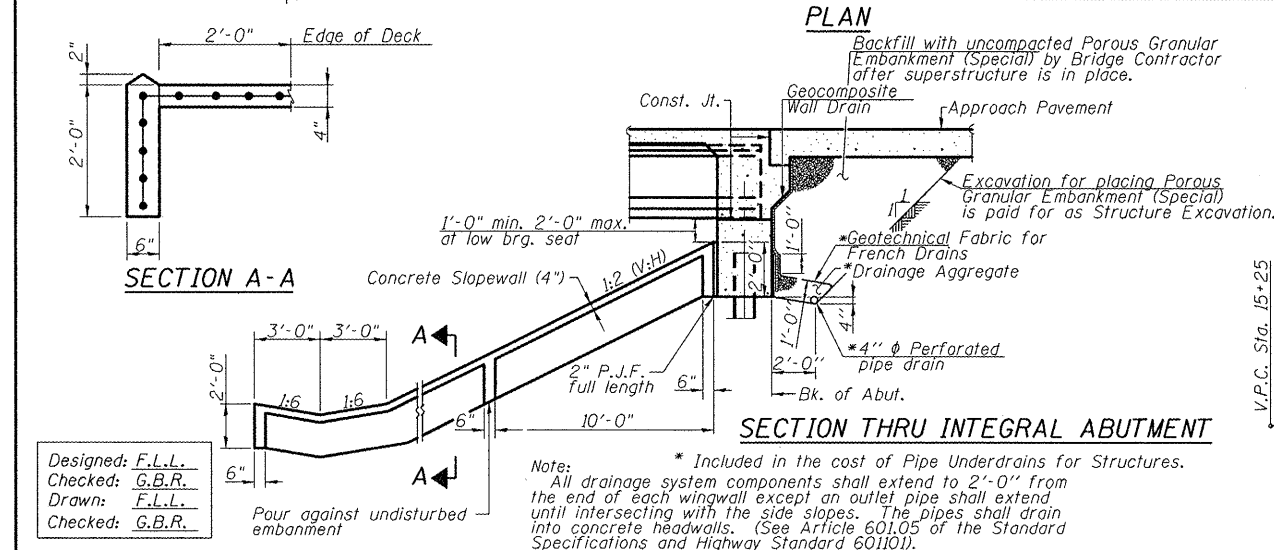
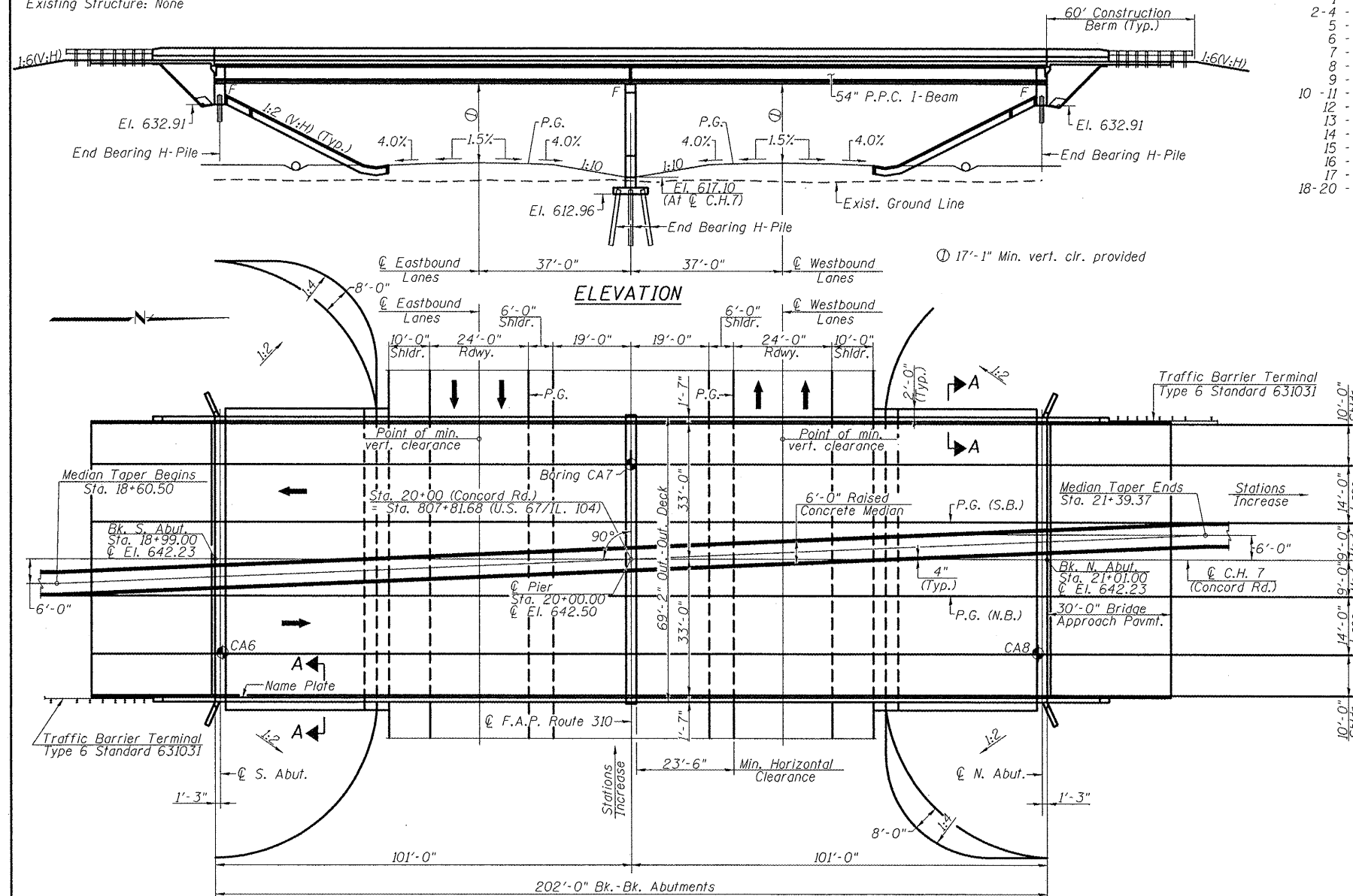
Seismic Performance Category (SPC) = A
 Bedrock Acceleration Coefficient (A) = 0.048g
 Site Coefficient (S) = 1.5

NAME PLATE

(Standard 515001)



Gerald R. Rothermel 5/4/11
 Expiration: 11/30/2012



APPROVED
 FOR STRUCTURAL ADEQUACY ONLY
D. Carl Pusey (150)
 ENGINEER OF BRIDGES AND STRUCTURES

Designed: F.L.L.
 Checked: G.B.R.
 Drawn: F.L.L.
 Checked: G.B.R.

Note: * Included in the cost of Pipe Underdrains for Structures.
 All drainage system components shall extend to 2'-0\"/>