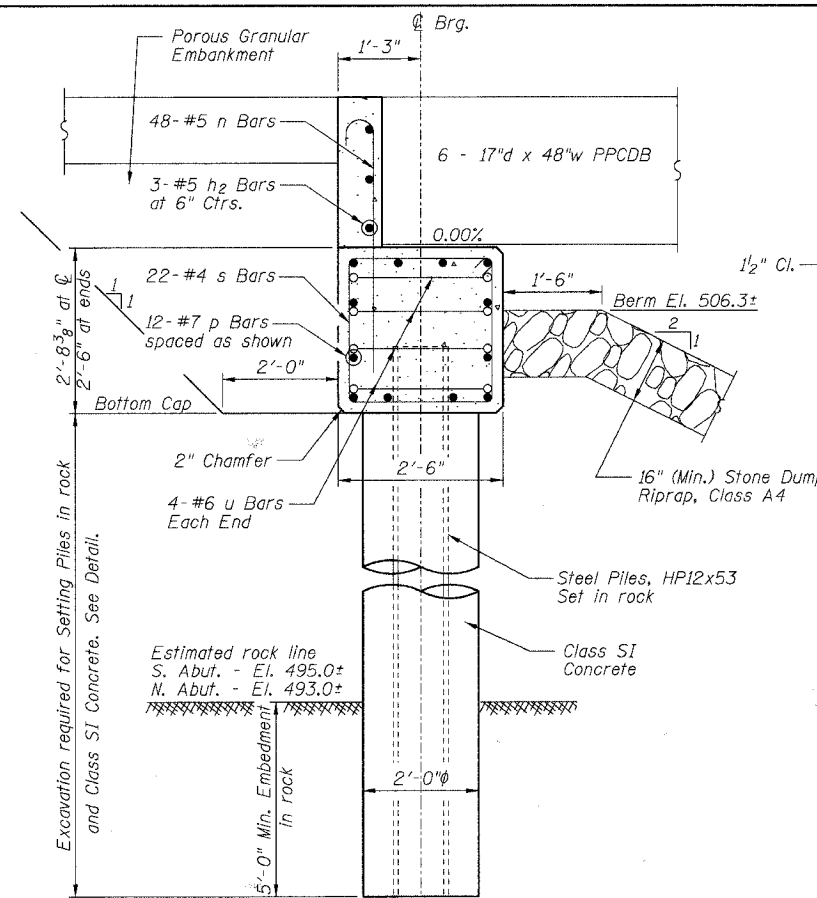
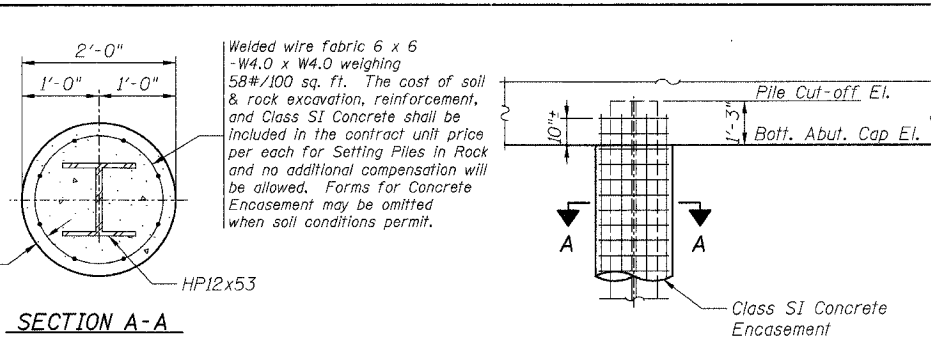


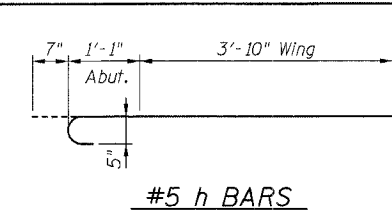
ROUTE	SECTION	COUNTY	TOTAL SHEET NO.
TR 373	05-12115-00-BR	CLAY	9
FED. ROAD DIST. NO. 7	ILLINOIS	FEDERAL AID PROJECT	
			CONTRACT NO. 95536



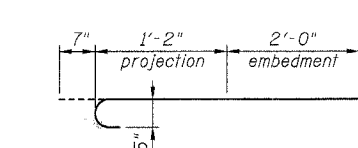
SECTION THRU ABUTMENT



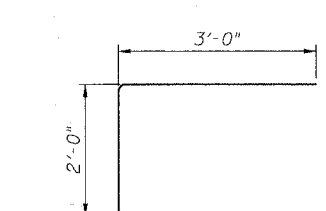
PILE ENCASEMENT DETAIL



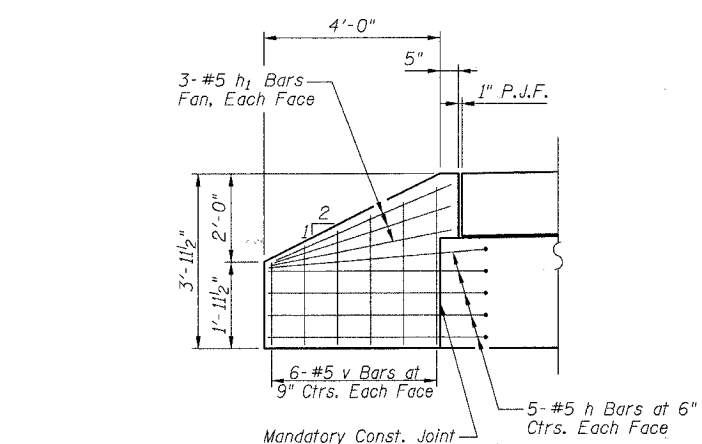
#5 h BARS



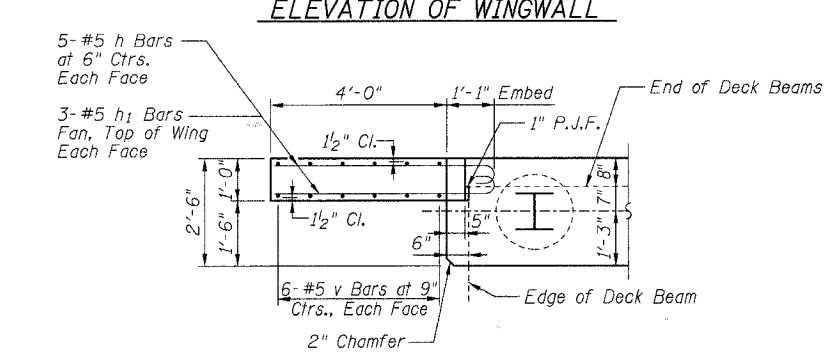
#5 n BARS



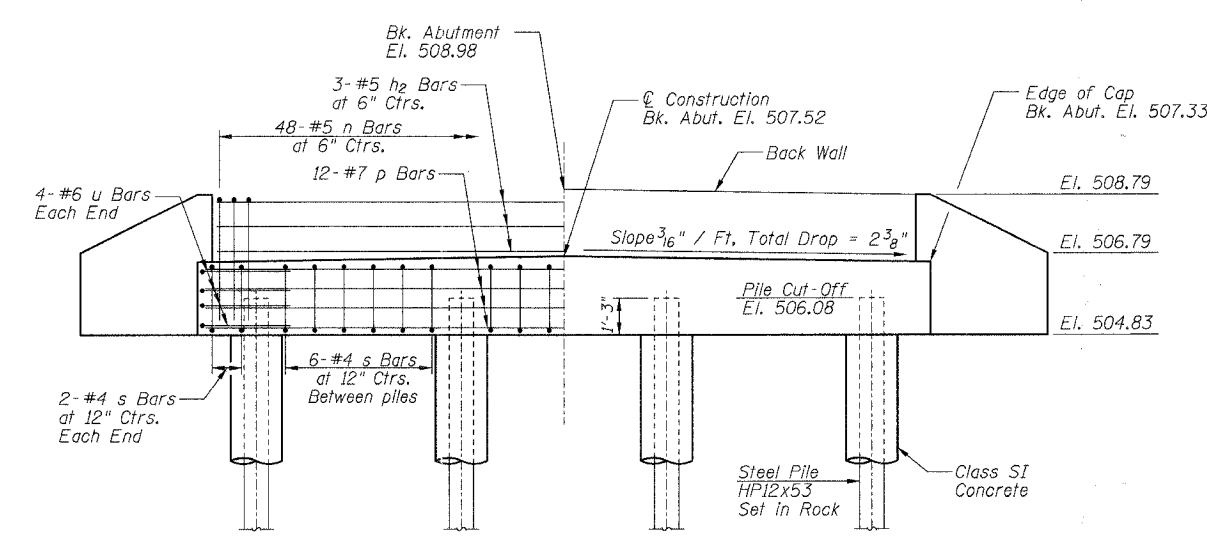
#6 u BARS



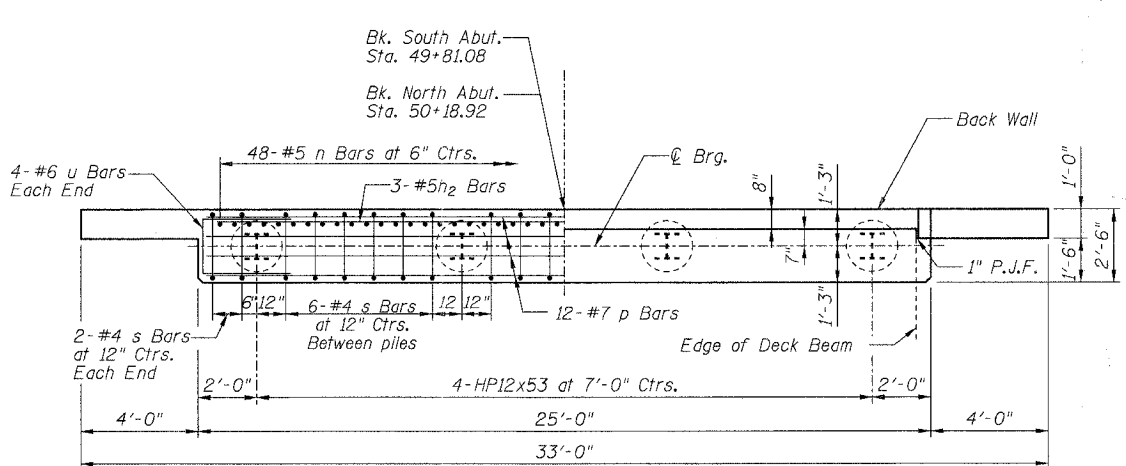
ELEVATION OF WINGWALL



WINGWALL CONNECTION DETAIL



ELEVATION



PLAN

BILL OF MATERIALS				
ONE ABUTMENT w/ WINGWALLS				
Bar	No.	Size	Length	Shape
h	20	#5	5'-6"	
h1	12	#5	4'-6"	
h2	3	#5	23'-8"	
n	48	#5	3'-9"	
p	12	#7	24'-8"	
s	22	#4	9'-5"	
u	8	#6	8'-0"	
v	24	#5	3'-9"	CUT IN FIELD
Concrete Structures			Cu Yd	7.8
Reinforcement Bars			Pound	1370
Furnishing Steel Piles HP 12x53			Foot	S. Abut. 72 N. Abut. 80
Setting Piles in Rock			Each	4

PILE DATA

Type and Size: Steel HP12x53
 Estimated Length:
 South Abutment: 18 Foot
 North Abutment: 20 Foot
 Number of Production Piles:
 South Abutment: 4 Each
 North Abutment: 4 Each
 Number of Test Piles:
 South Abutment: None
 North Abutment: None

GENERAL NOTES

All exposed edges shall have standard 3/4" chamfer, unless otherwise noted.
 All clearances between rebar and form surface shall be 2", unless otherwise noted.
 Space reinforcement in cap to miss PPCDB dowel rods.
 The Steel H-piles shall be according to AASHTO M270 Grade 50.
 In addition to all other requirements of Section 512 of the Standard Specifications, splices for Steel H-piles shall develop the full capacity of the steel's cross sectional area of the pile for tension, shear and bending forces. One approved method of achieving this requirement is full penetration butt welding of the entire cross section. Other types of splices meeting the full capacity requirement may be allowed subject to the approval of the Engineer. Any proposal by the Contractor to use an alternate splice method must include adequate documentation demonstrating that the full tension, shear and bending capacities will be met. Appropriate welder qualifications will be required for the positions and processes used in splicing all piles. Nondestructive testing of completed welds will be limited to visual inspection.

ABUTMENT DETAILS
PROPOSED BRIDGE OVER
NICKOLSEN CREEK
 TR 373
 SECTION 05-12115-00-BR
 CLAY COUNTY, ILLINOIS

10/25/2007