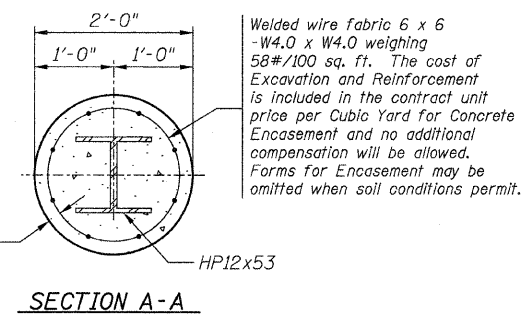
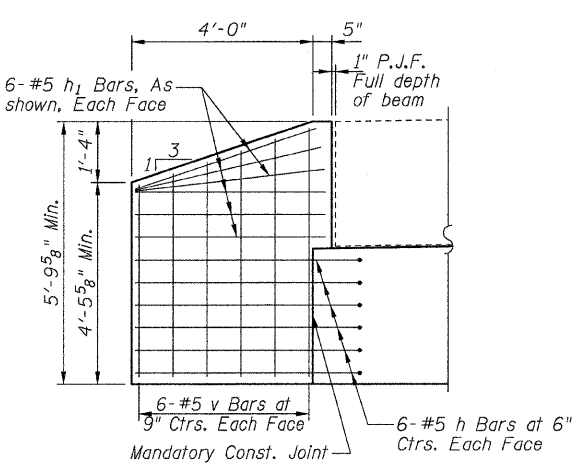
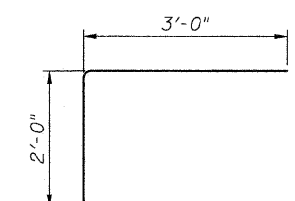
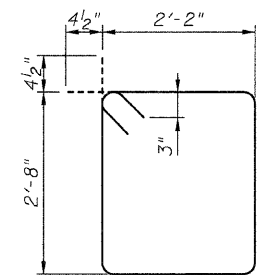
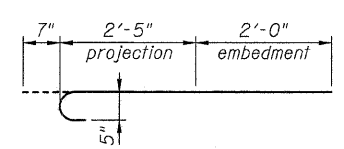
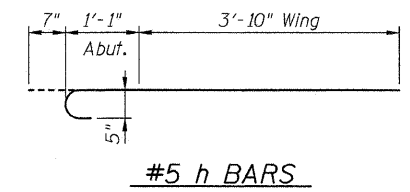
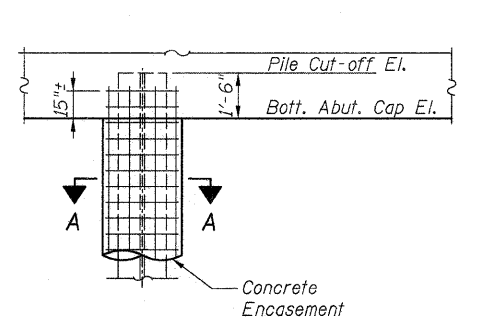


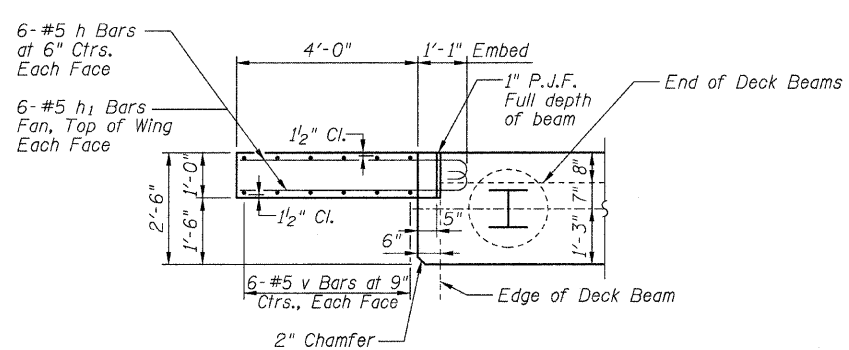
SECTION THRU ABUTMENT



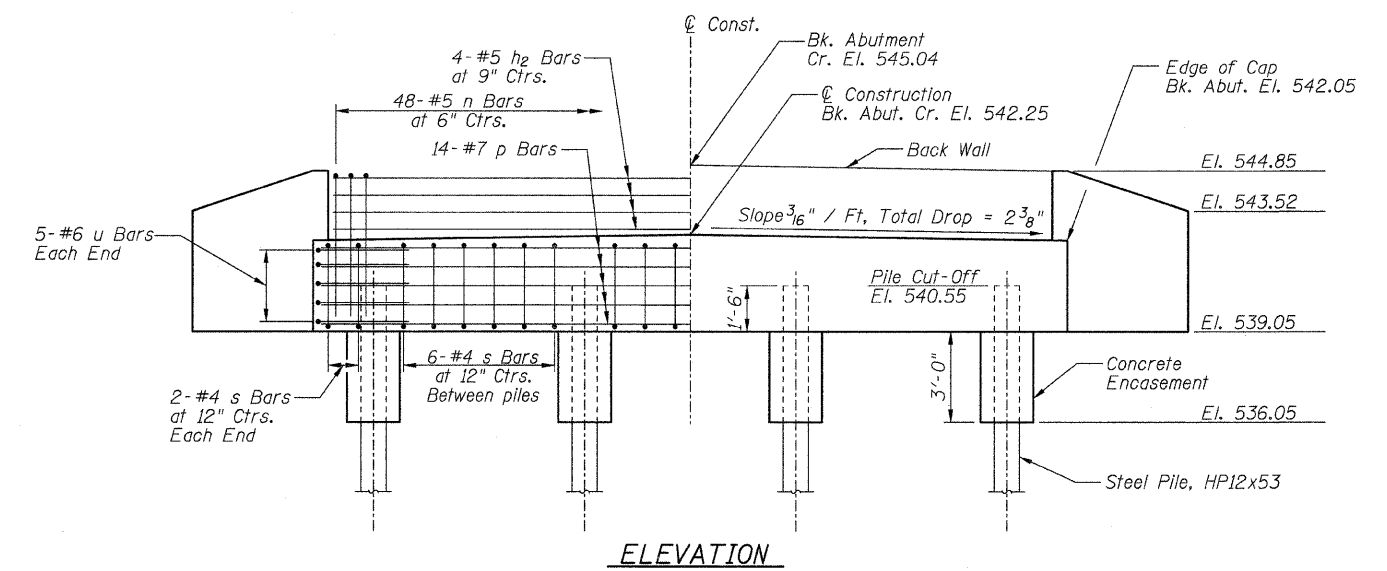
PILE ENCASEMENT DETAIL



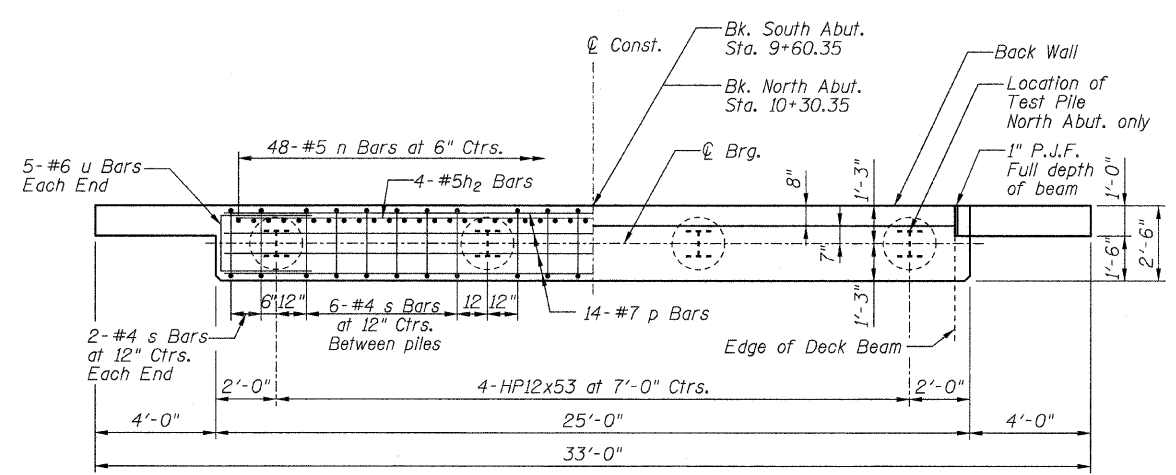
ELEVATION OF WINGWALL



WINGWALL CONNECTION DETAIL



ELEVATION



PLAN

**BILL OF MATERIALS
ONE ABUTMENT w/ WINGWALLS**

Bar	No.	Size	Length	Shape
h	24	#5	5'-6"	
h1	24	#5	4'-3"	
h2	4	#5	23'-8"	
n	48	#5	5'-0"	
p	14	#7	24'-8"	
s	22	#4	10'-5"	
u	10	#6	8'-0"	
v	24	#5	5'-6"	CUT IN FIELD
Concrete Structures			Cu Yd	10.5
Concrete Encasement			Cu Yd	1.4
Reinforcement Bars			Pound	1710

PILE DATA

Type and Size: Steel HP12x53
Nominal Required Bearing: 419 kips
Allowable Resistance Available: 139 kips
Estimated Length:
South Abutment: 36 Foot
North Abutment: 33 Foot
Number of Production Piles:
South Abutment: 4 Each
North Abutment: 3 Each
Number of Test Piles:
South Abutment: None
North Abutment: 1 Each

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.
The Contractor shall drive one (1) Steel HP12x53 Test Pile in a permanent location at the North abutment as directed by the Engineer before ordering the remainder of the piles.
The Test Pile shall be driven to 110 percent of the Nominal Required Bearing indicated in the pile data information.
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
WOLF CREEK
TR 518
SECTION 08-08122-00-BR
FAYETTE COUNTY, ILLINOIS**

02/09/2009