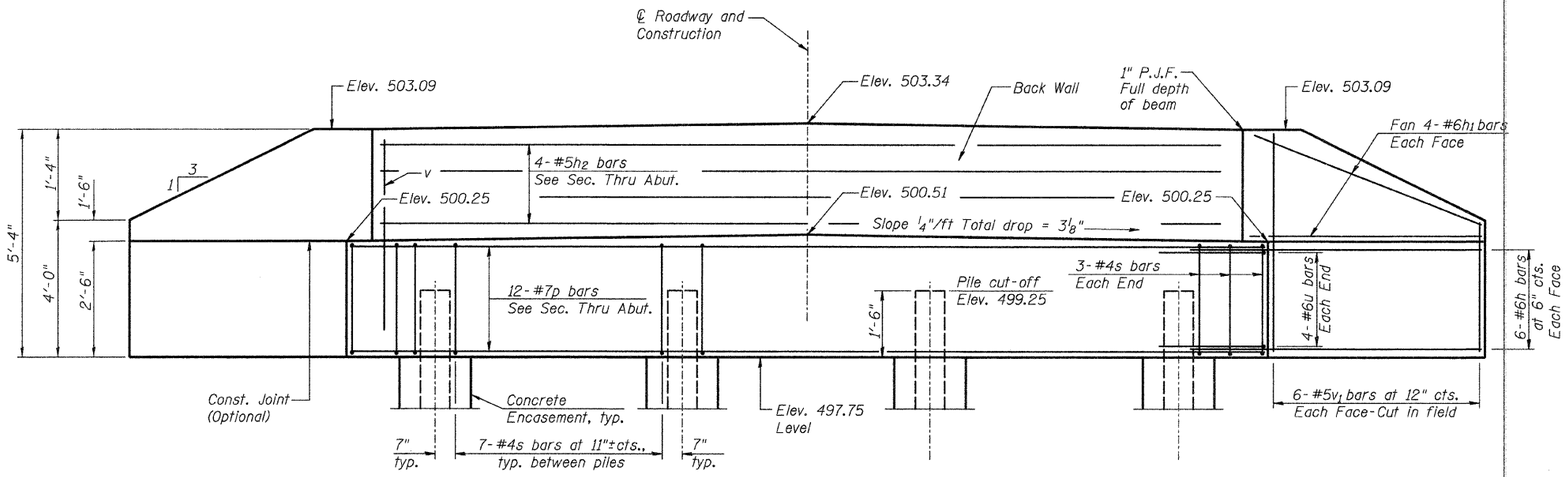
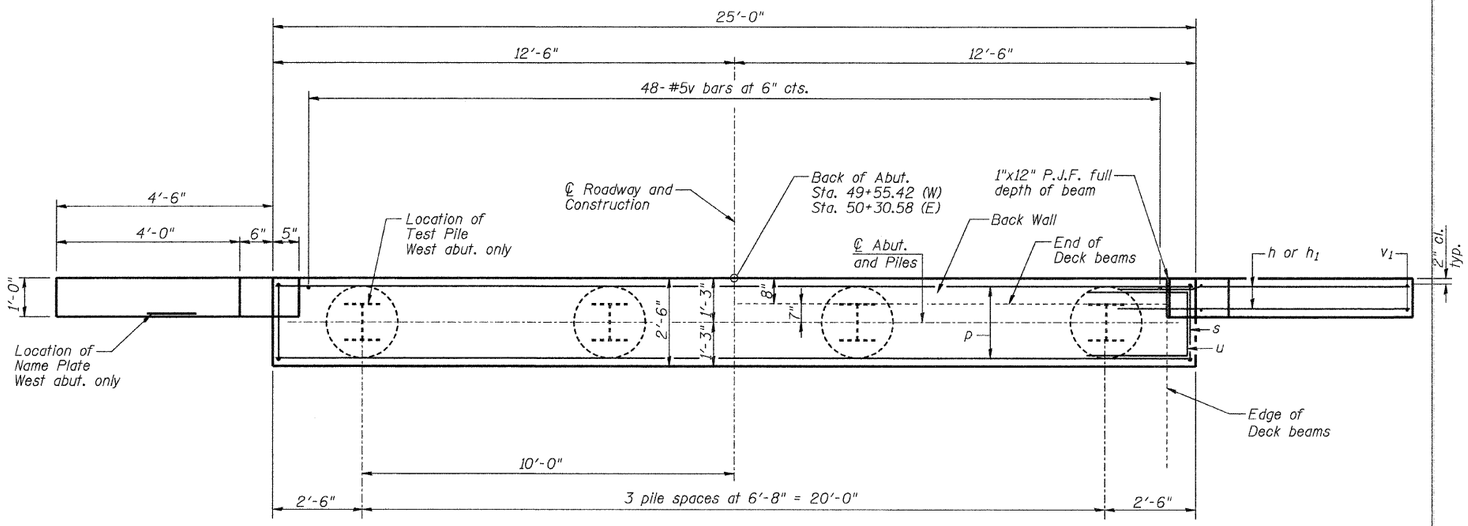
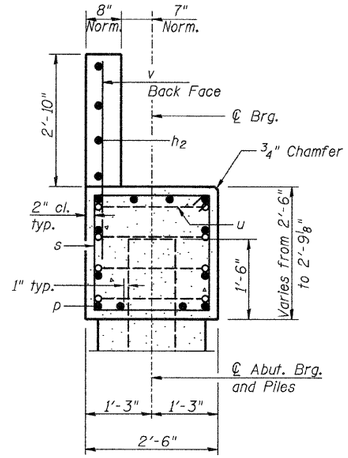


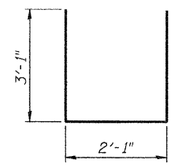
ELEVATION



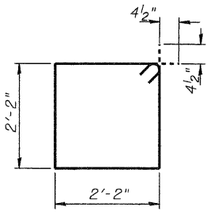
PLAN



SEC. THRU ABUT.
(Normal to ℄)



BAR u



BAR s

BILL OF MATERIAL FOR ONE ABUTMENT

Bar	No.	Size	Length	Shape
h	24	#6	8'-0"	
h_1	16	#6	4'-9"	
h_2	4	#5	23'-8"	
p	12	#7	24'-8"	
s	27	#4	9'-5"	
u	8	#6	8'-3"	
v	48	#5	4'-3"	
v_1	24	#5	5'-0"	CUT IN FIELD
Concrete Structures			Cu. Yd.	9.4
Reinforcement Bars			Pound	1710
Furnishing Steel Piles, HP12x53	Foot		W. Abut.	90
			E. Abut.	96
Driving Piles	Foot		W Abut.	90
			E Abut.	96
Test Pile, Steel HP12x53	Each		W Abut.	1
			E Abut.	0
Concrete Encasement			Cu Yd	1.4

For details of piles and Concrete Encasement, see Sheet 9 of 11.

PILE DATA WEST ABUTMENT

Type:	Steel HP12x53
Nominal Required Bearing:	419 kips
Allowable Resistance Available:	139 kips
Estimated Length:	30'/pile
No. Production Piles:	3
No. Test Piles:	1

PILE DATA EAST ABUTMENT

Type:	Steel HP12x53
Nominal Required Bearing:	419 kips
Allowable Resistance Available:	139 kips
Estimated Length:	24'/pile
No. Production Piles:	4
No. Test Piles:	0

GENERAL NOTES

Reinforcement bars shall conform to the requirements of ASTM A 706 Grade 60 (IL Modified).

All exposed edges shall have standard 3/4" chamfer, unless otherwise noted or as directed by the Engineer.

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 production location at the West 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.

03/30/2011 RAAI #50410

ABUTMENT DETAILS
STRUCTURE NO. 013-3237

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR 19	07-01116-00-BR	CLAY	11	8
		CONTRACT NO. 95651		
	ILLINOIS FED. AID PROJECT			