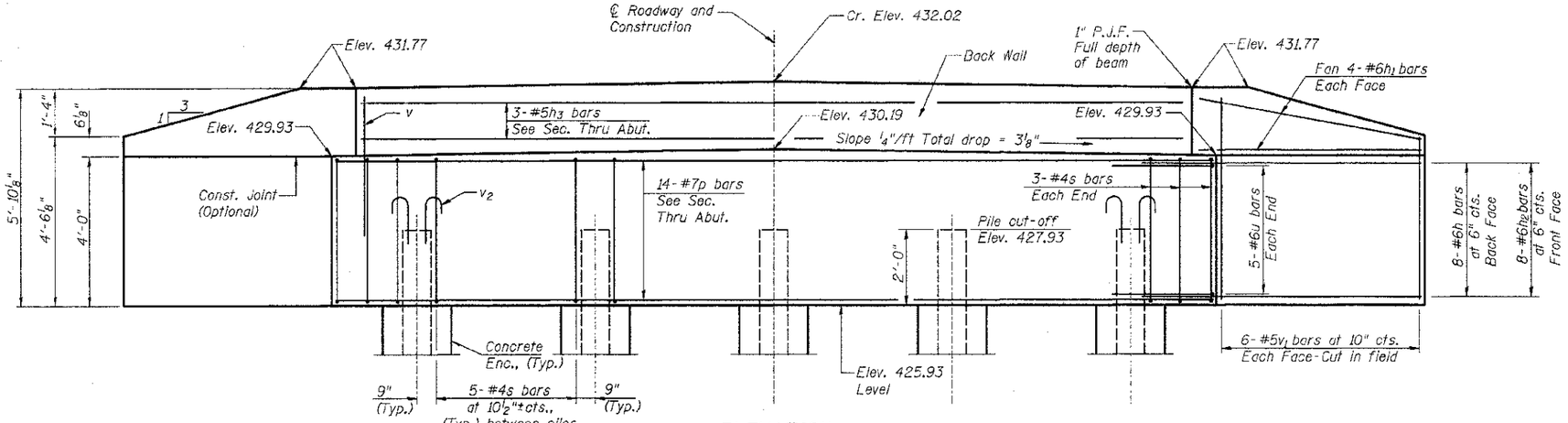
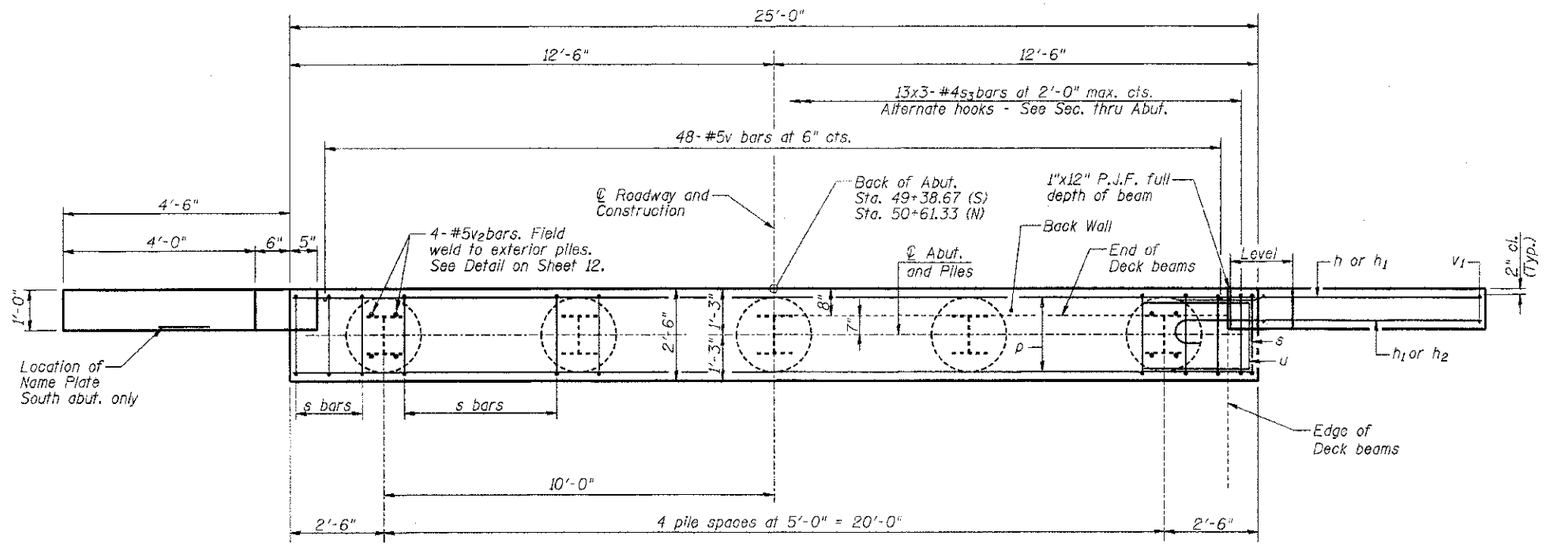
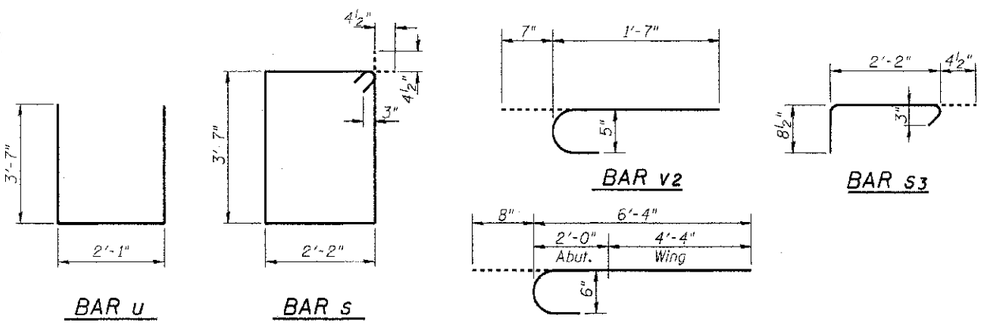
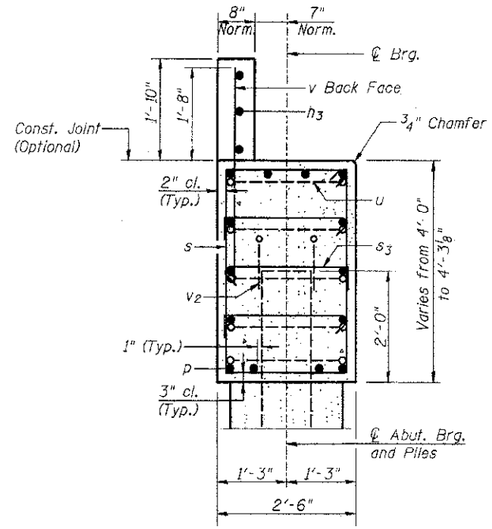


ELEVATION



PLAN





SEC. THRU ABUT.
(Normal to ℄)

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 position of the 90° & 135° hooked ends of the s_3 bar shall be alternated between adjacent bars as shown, both vertically and horizontally.

The Contractor shall provide temporary support for the piles after driving until the caps and superstructure are set. The weak soils as shown on the borings provide minimal resistance for lateral loads to the piles. This work shall be included in the unit price per foot for Driving Piles and no additional compensation will be allowed.

PILE DATA SOUTH ABUTMENT

Type:	Steel HP14x73
Nominal Required Bearing:	500 kips
Factored Resistance Available:	275 kips
Estimated Length:	33'/plie
No. Production Piles:	5
No. Test Piles:	0

PILE DATA NORTH ABUTMENT

Type:	Steel HP14x73
Nominal Required Bearing:	500 kips
Factored Resistance Available:	275 kips
Estimated Length:	35'/plie
No. Production Piles:	5
No. Test Piles:	0

BILL OF MATERIAL FOR ONE ABUTMENT

Bar	No.	Size	Length	Shape
h	16	#6	8'-0"	
h_1	16	#6	4'-7"	
h_2	16	#6	7'-0"	
h_3	3	#5	23'-8"	
p	14	#7	24'-8"	
s	26	#4	12'-3"	
s_3	39	#4	3'-3"	
u	10	#6	9'-3"	
v	48	#5	3'-9"	
v_1	24	#5	5'-6"	CUT IN FIELD
v_2	8	#5	2'-2"	
Concrete Structures			Cu. Yd.	12.5
Reinforcement Bars			Pound	2030
Furnishing Steel Piles, HP14x73	Foot	S. Abut.		165
		N. Abut.		175
Driving Piles	Foot	S Abut.		165
		N Abut.		175
Concrete Encasement		Cu Yd		2.8

For details of piles and Concrete Encasement, see Sheet 12.

RHUTASEL and ASSOCIATES, INC.
CONSULTING ENGINEERS • LAND SURVEYORS
CENTRALIA, ILLINOIS FREEBURG, ILLINOIS
ILLINOIS DESIGN FIRM LICENSE NO. 184-000287

DESIGNED - BLT	REVISED -	
CHECKED - WDL	REVISED -	
DRAWN - JN	REVISED -	
DATE - 02/20/2013	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ABUTMENT DETAILS
STRUCTURE NO. 013-3239

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR 212A	99-04125-00-BR	CLAY	15	10
		CONTRACT NO. 95704		
RAAI JOB NO. 51611	ILLINOIS FED. AID PROJECT			