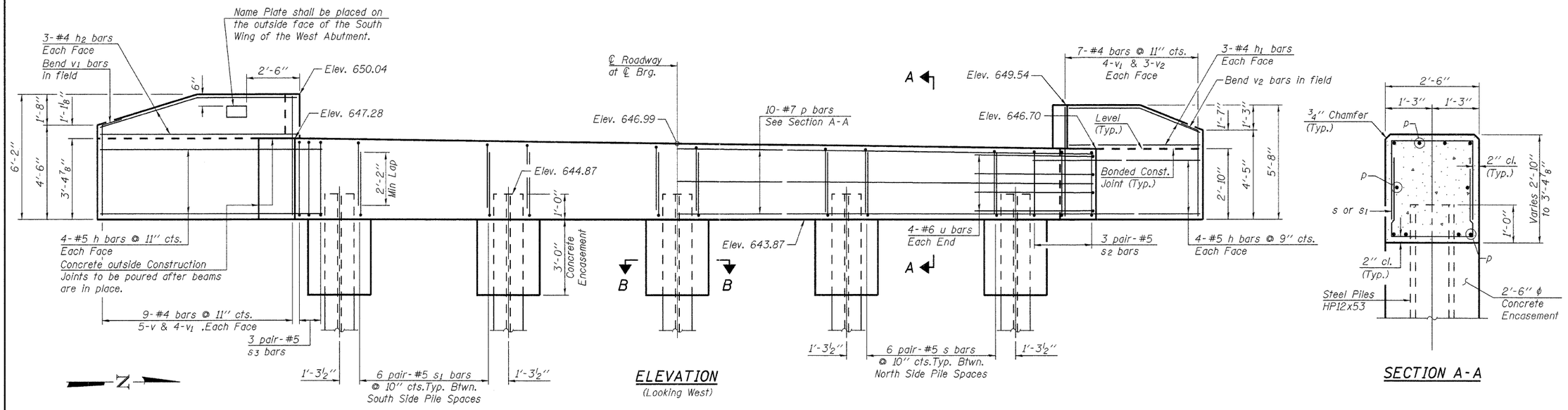
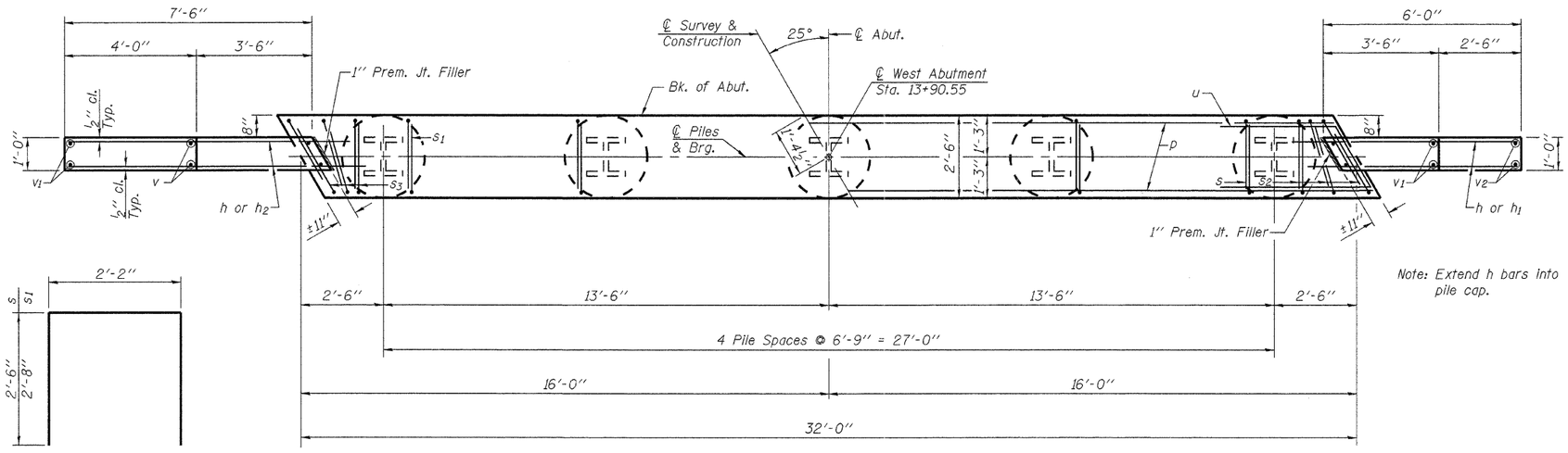
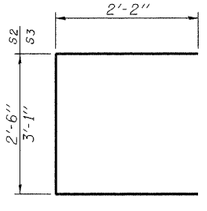
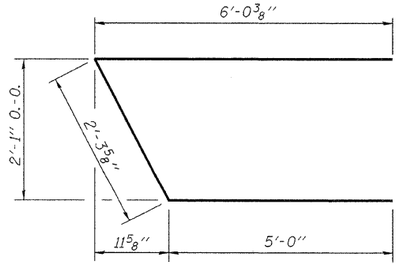




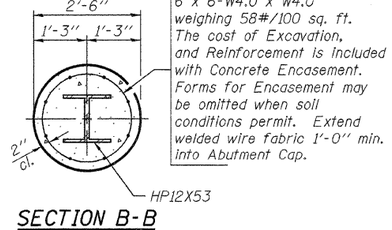
BAR s & s1



BAR s2 & s3



BAR u



SECTION B-B
Concrete Encasement

Welded wire fabric 6 x 6-W4.0 x W4.0 weighing 58#/100 sq. ft. The cost of Excavation, and Reinforcement is included with Concrete Encasement. Forms for Encasement may be omitted when soil conditions permit. Extend welded wire fabric 1'-0" min. into Abutment Cap.

PILE DATA

Type & Size.....Steel HP12x53
No. Req'd.....*5
Nominal Required Bearing.....282 kips
Factored Resistance Available.....155 kips
Estimated Length.....46 ft./Pile

*Includes 1 Test Pile to be driven in a permanent location at the west abutment.

The test piles shall be driven to 110 percent of the Nominal Required Bearing indicated above.

WEST ABUTMENT BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h	16	#5	10'-0"	——
h1	6	#4	5'-8"	——
h2	6	#4	7'-6"	——
p	10	#7	31'-8"	——
s	24	#5	7'-2"	⊓
s1	24	#5	7'-6"	⊓
s2	6	#5	7'-4"	⊏
s3	6	#5	7'-11"	⊏
u	8	#6	13'-4"	⌓
v	10	#4	5'-10"	——
v1	16	#4	5'-4"	——
v2	6	#4	5'-1"	——
Concrete Structures			Cu. Yd.	12.0
Reinforcement Bars			Pound	1,610
Name Plates			Each	1
Steel Piles HP12x53			Foot	184
Driving Piles			Foot	184
Test Pile Steel HP12x53			Each	1
Concrete Encasement			Cu. Yd.	2.7

See Sheet 16 for Pile Details.

FILE NAME = 11-540_ABUTS.DGN	USER NAME = S.A.P.	DESIGNED - A.L.S.	REVISED -
		CHECKED - A.R.K. & J.A.M.	REVISED -
	PLOT SCALE = XXX	DRAWN - S.A.P.	REVISED -
	PLOT DATE = 01/06/12	CHECKED - A.R.K.	REVISED -

FEHR-GRAHAM & ASSOCIATES, LLC
ENGINEERING AND SCIENCE CONSULTANTS
FREEPORT, IL ROCKFORD, IL ROCHELLE, IL MONROE, WI SPRINGFIELD, IL

WEST ABUTMENT DETAILS
S.N. 021-4546

TWP. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
151	07-02122-01-BR	DOUGLAS	23	13
		CONTRACT NO. 91473		
	ILLINOIS	BOURBON ROAD DISTRICT		

*11-540