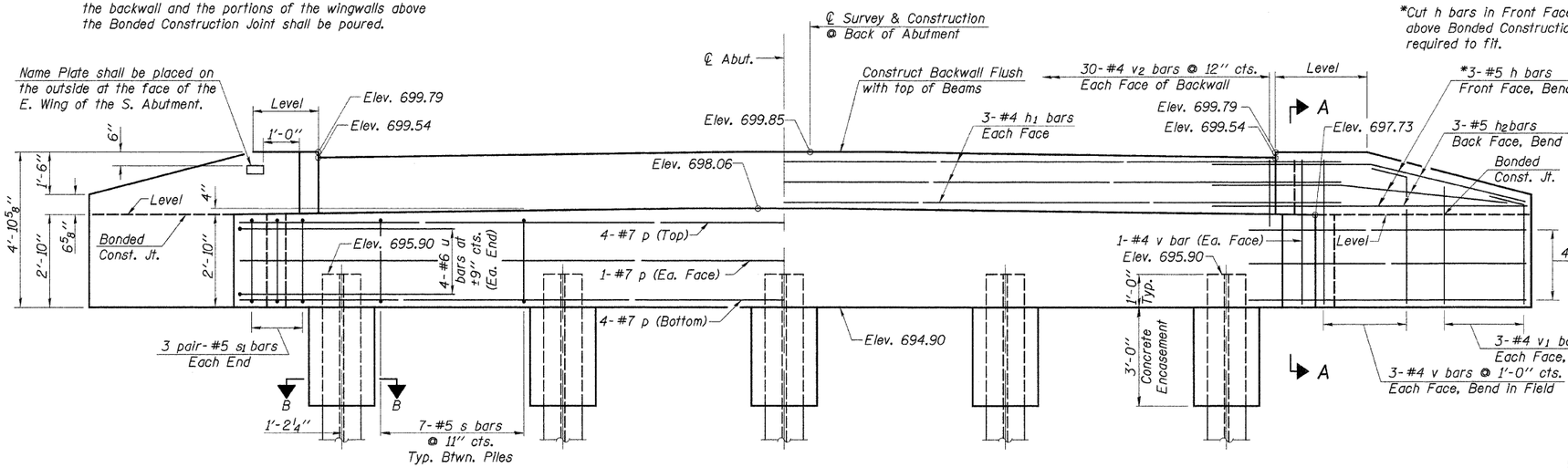
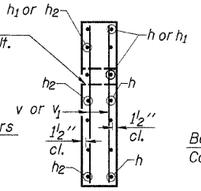
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 1045 CH 11	07-00421 -00-BR	WINNEBAGO	18	9
	ILLINOIS			

CONTRACT NO. 85451

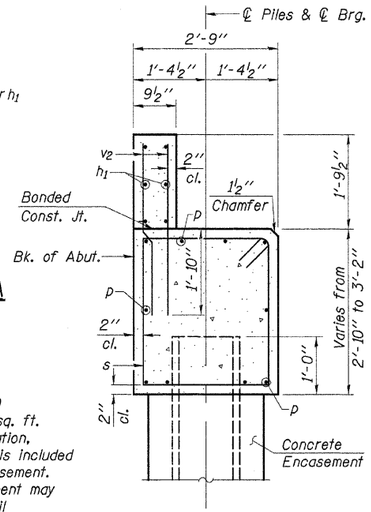
Note: After beams are in place and dowel rods grouted, the backwall and the portions of the wingwalls above the Bonded Construction Joint shall be poured.



*Cut h bars in Front Face of Wingwall above Bonded Construction Joint, as required to fit.

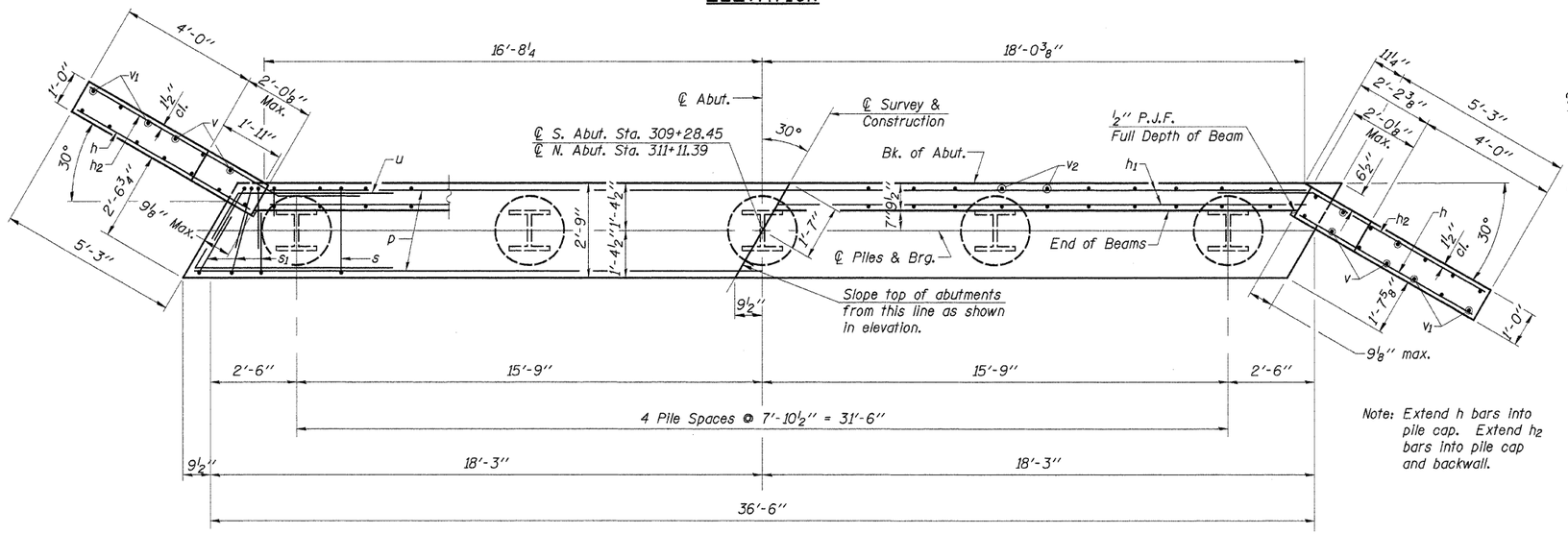


SECTION A-A

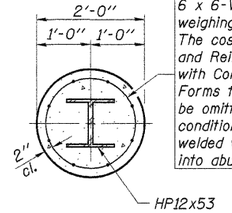


SECTION THRU ABUT.

ELEVATION



PLAN

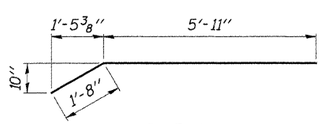


SECTION B-B
Concrete Encasement

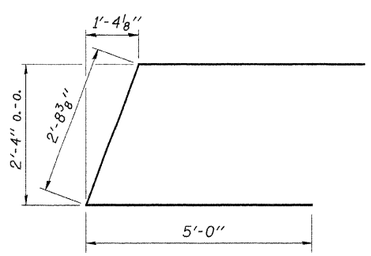
Welded wire fabric 6 x 6-W4.0 x W4.0 weighing 58#/100 sq. ft. The cost of Excavation, and Reinforcement is included with Concrete Encasement. Forms for Encasement may be omitted when soil conditions permit. Extend welded wire fabric 1'-0" min. into abutment cap.

2 ABUTMENTS BILL OF MATERIAL

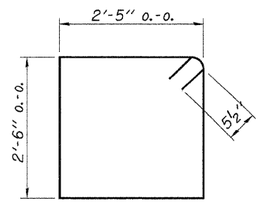
Bar	No.	Size	Length	Shape
h	28	#5	6'-6"	——
h1	12	#4	35'-0"	——
h2	28	#5	7'-7"	⌐——
p	20	#7	36'-2"	——
s	56	#5	10'-3"	□
s1	24	#5	7'-4"	▭
u	16	#6	12'-9"	⌐—⌐
v	32	#4	4'-7"	——
v1	24	#4	4'-0"	——
v2	120	#4	3'-5"	——
Concrete Structures			Cu. Yd.	29.6
Reinforcement Bars			Pound	3,700
Name Plates			Each	1
Furnishing Steel Piles HP12x53			Foot	488
Driving Piles			Foot	488
Test Pile Steel HP12x53			Each	2
Concrete Encasement			Cu. Yd.	3.5
Structure Excavation			Cu. Yd.	97



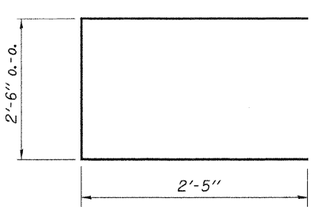
BAR h_2



BAR u



BAR s



BAR s_1

DESIGNED	A.R.K.
CHECKED	J.A.M.
DRAWN	S.A.P.
CHECKED	J.A.M. & A.R.K.

PILE DATA

Type & Size ..... Steel HP12x53
No. Req'd. (2 Abuts.) *10
Nominal Required Bearing ..... 270 kips
Allowable Resistance Available ..... 90 kips
Estimated Length ..... 56 Ft./Pile @ S. Abut.
66 Ft./Pile @ N. Abut.

*Includes 1 Test Pile to be driven in a permanent location at each Abutment.

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

The Steel H-piles shall be according to AASHTO M270 Grade 50.

Note: Extend h bars into pile cap. Extend h_2 bars into pile cap and backwall.

ABUTMENTS

SECTION 07-00421-00-BR
F.A.S. ROUTE 1045 - C.H. 11
WINNEBAGO COUNTY
STA. 310+19.92

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JOB NO.: 46466
FILE: ABUT.DGN
DATE: 02/03/09