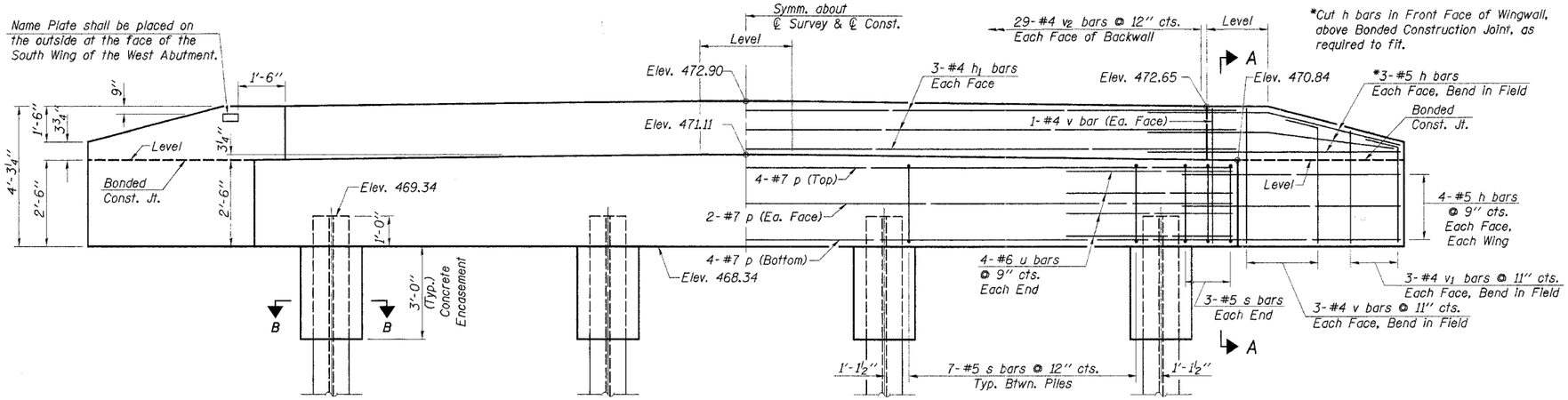
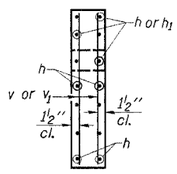
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
T.R. 325	99-04128 -00-BR	CLAY	13	8
ROAD DIST.	ILLINOIS	HARTER		

CONTRACT NO. 95523

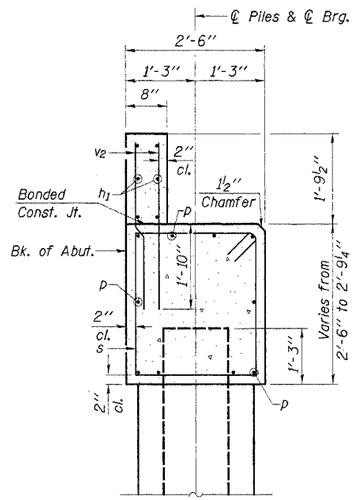


ELEVATION

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

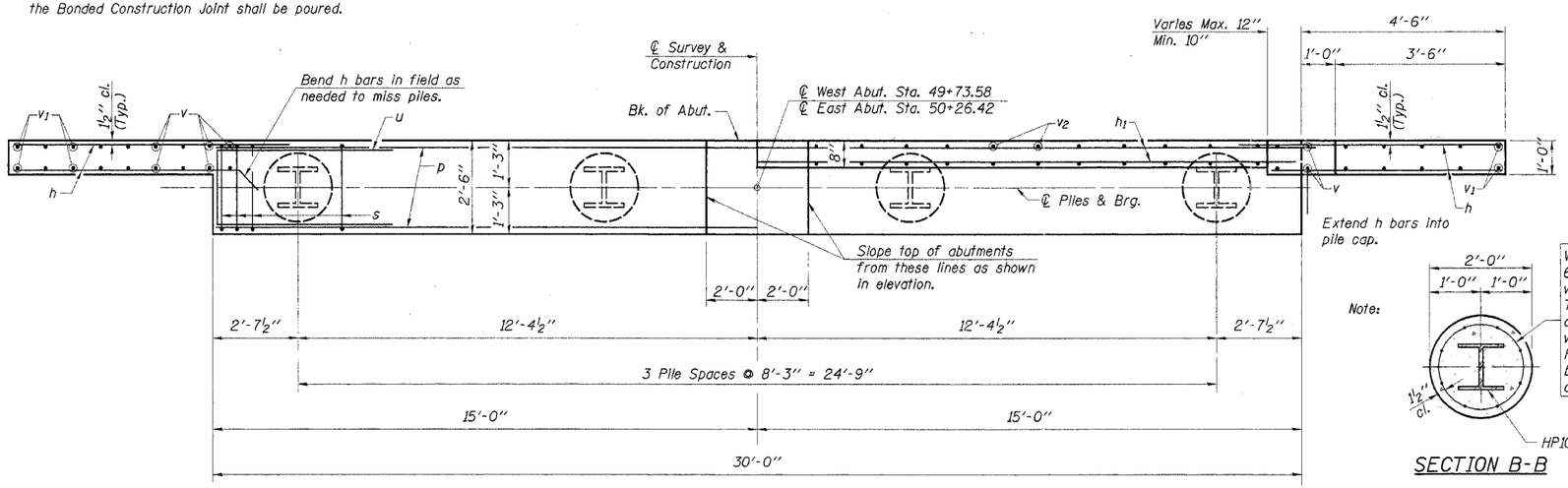


SECTION A-A

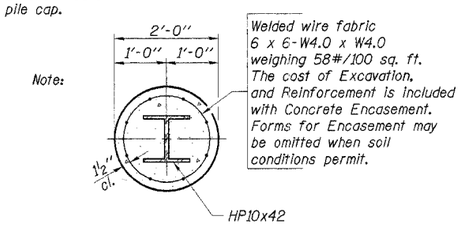


SECTION THRU ABUT.

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.



PLAN

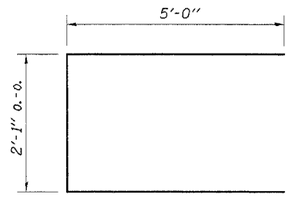


SECTION B-B

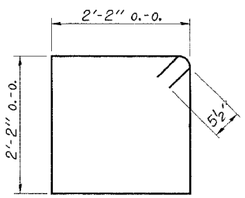
PILE ENCASEMENT DETAIL

2 ABUTMENTS
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h	56	#5	6'-0"	——
h_1	12	#4	32'-0"	——
p	20	#7	29'-8"	——
s	54	#5	9'-7"	□
u	16	#6	12'-1"	▭
v	32	#4	4'-0"	——
v_1	24	#4	3'-3"	——
v_2	116	#4	3'-6"	——
Concrete Structures			Cu. Yd.	20.0
Reinforcement Bars			Pound	3,060
Name Plates			Each	1
Test Pile Steel HP10x42			Each	2
Concrete Encasement			Cu. Yd.	2.8
Steel Piles HP10x42			Foot	144



BAR u



BAR s

PILE DATA

Type & Size	Steel Piles HP10x42
No. Req'd. (2 Abuts.)	*8
Nominal Required Bearing	300 Kips/Pile
Allowable Resistance Available	100 Kips/Pile
Est. Length	25 Feet/Pile W. Abutment
	23 Feet/Pile E. Abutment

*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. The steel H-Piles shall be in accordance with AASHTO M270 Grade 50.

DESIGNED	F.J.S.
CHECKED	S.F.M.
DRAWN	S.A.P.
CHECKED	S.F.M.

ABUTMENTS

SECTION 99-04128-00-BR
HARTER ROAD DISTRICT
CLAY COUNTY
STATION 50+00

4440 ASH GROVE
SPRINGFIELD, IL 62711
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www.fehr-graham.com

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

JOB NO.: 46861
FILE: 46861ABUT.DGN
DATE: 07/05/07