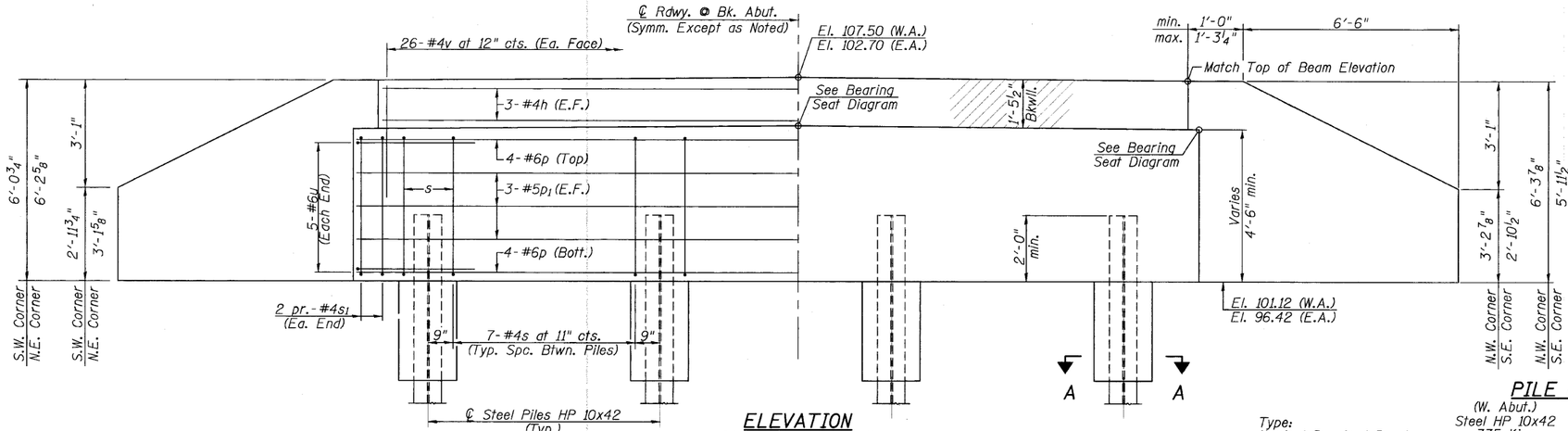


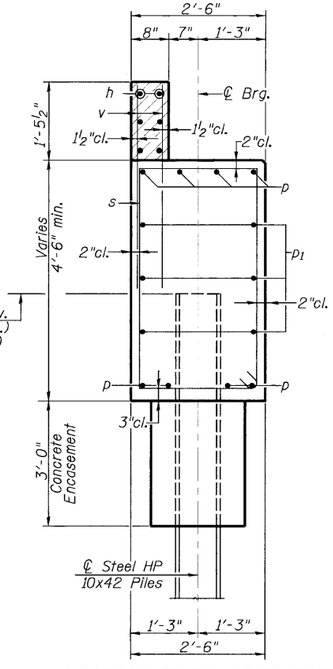
ELEVATION

(W. Abut. Looking West)
(E. Abut. Looking East)

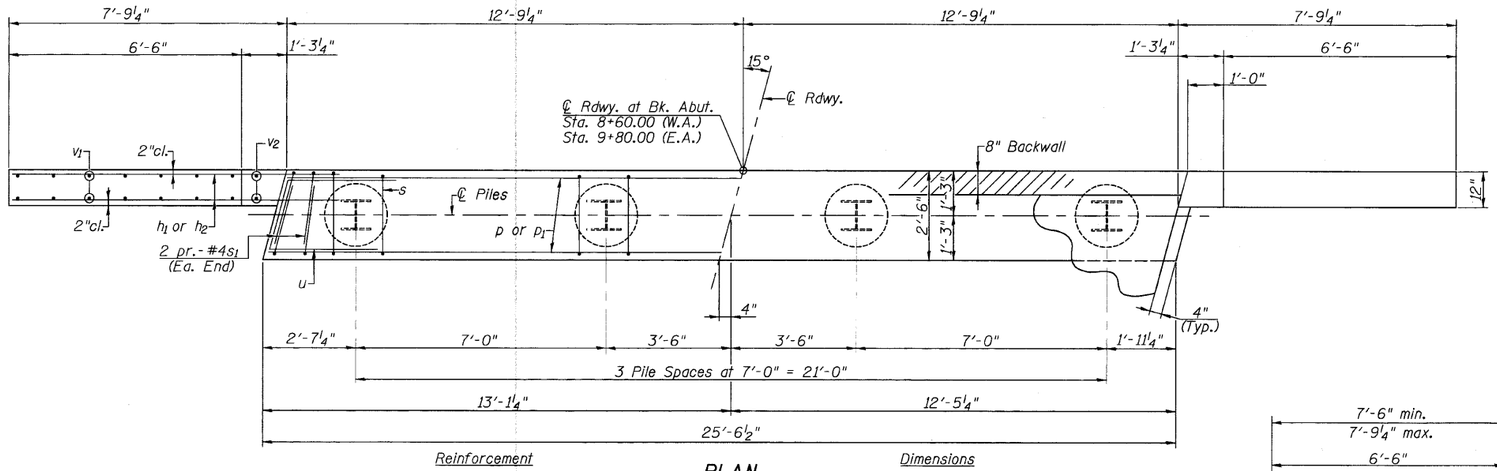
Note: See Sheet 15 of 22 for Section A-A

PILE DATA

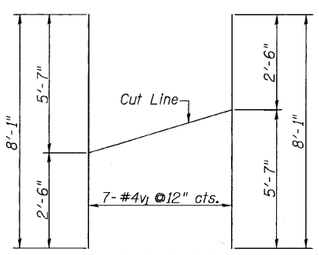
	(W. Abut.)	(E. Abut.)
Type:	Steel HP 10x42	Steel HP 10x42
Nominal Required Bearing:	335 Kips	335 Kips
Factored Resistance Available:	167 Kips	167 Kips
Estimated Pile Length:	58'	55'
Number of Production:	3	3
Number of Test Piles:	1	1



SECTION THRU ABUTMENT

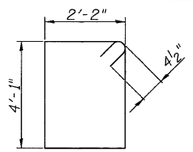


PLAN

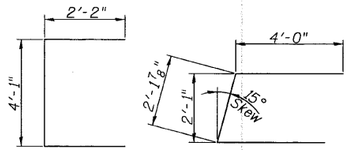


v1 - BAR CUT DIAGRAM

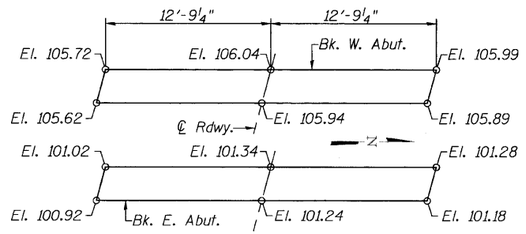
Order v_1 bars full length: Layout in field according to diagram. Cut v_1 bars along cut line. Use remainder of each bar in opposite face.



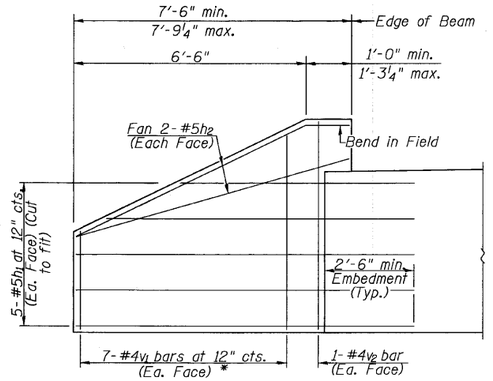
BAR s



BAR s_1 — BAR u



BEARING SEAT DIAGRAM



WINGWALL ELEVATION

(Showing Reinforcement)
* See v_1 - bar cut diagram

NOTES

All exposed edges shall have standard ¾" chamfer.
Space reinforcement in cap to miss beam anchor dowels.
Wingwalls and Backwalls may, at the contractor's option, be cast monolithically.
Hatched area and wingwalls shall be poured after deck beams are anchored in place.
The Steel H-Piles shall be according to AASHTO M270, Grade 50.
The Contractor shall drive test piles to 110% of the nominal required bearing specified in production locations at substructures specified or approved by the Engineer before ordering the remainder of piles.

BILL OF MATERIAL TWO ABUTMENTS

BAR	NO.	SIZE	LENGTH	SHAPE
h	12	#4	26'-7"	——
h_1	40	#5	10'-1"	——
h_2	16	#5	7'-3"	——
p	16	#6	25'-2"	——
p_1	12	#5	25'-2"	——
s	46	#4	13'-3"	⊐
s_1	16	#4	8'-5"	⊏
u	20	#6	10'-2"	⊏⊐
v	104	#4	2'-8"	——
v_1	28	#4	8'-1"	——
v_2	8	#4	5'-8"	——

Concrete Structures	Cu. Yd.	29.8
Reinforcement Bars	Pound	2845
Furnishing Steel Piles HP 10x42	Foot	339
Concrete Encasement	Cu. Yd.	2.8
Structure Excavation	Cu. Yd.	12
Driving Piles	Foot	339
Test Pile Steel HP 10x42	Each	2

FILE NAME = $FILE$

USER NAME = $USER$ | DESIGNED - | REVISED -
DRAWN - | REVISED -
PLOT SCALE = $SCALE$ | CHECKED - | REVISED -
PLOT DATE = $DATE$ | DATE - | REVISED -

Allen Henderson & Associates, Inc.
Civil and Structural Engineers Springfield, IL.
62703 Phone: (217)544-8033 IL. Design Firm
No. 184-001907

ABUTMENTS

SCALE: NONE | SHEET NO. 8 OF 11 SHEETS | STA. | TO STA.

T.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	09-11118-00-BR	SHELBY	22	12
		CONTRACT NO. 95629		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		