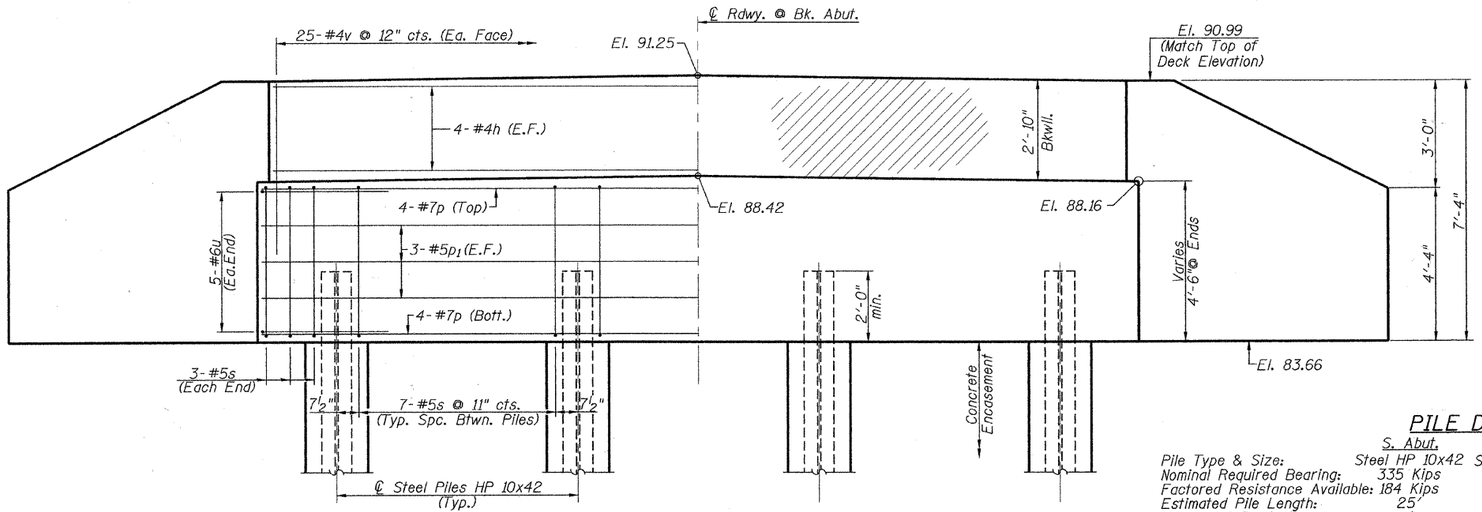
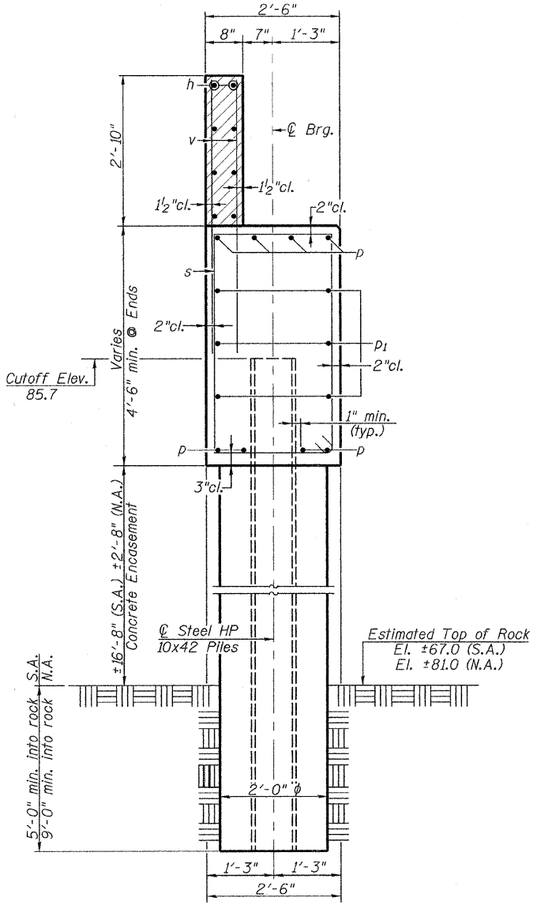


ELEVATION

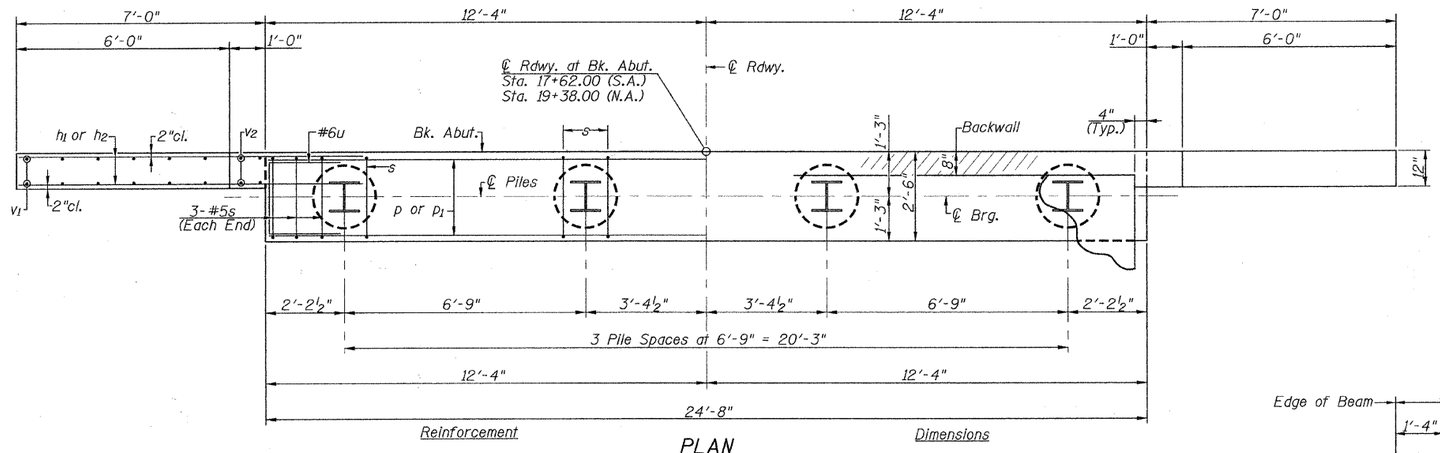
(S. Abut. Looking South)
(N. Abut. Looking North)

PILE DATA

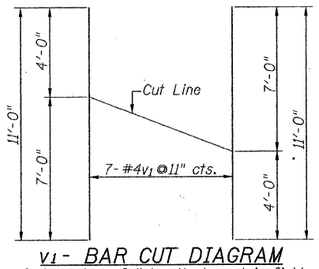
	S. Abut.	N. Abut.
Pile Type & Size:	Steel HP 10x42	Steel HP 10x42
Nominal Required Bearing:	335 Kips	335 Kips
Factored Resistance Available:	184 Kips	184 Kips
Estimated Pile Length:	25'	15'
Number of Production:	4	4
Number of Test Piles:	0	0



SECTION THRU ABUTMENT

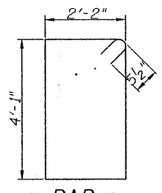


PLAN

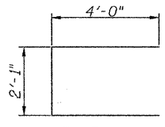


v1 - BAR CUT DIAGRAM

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.



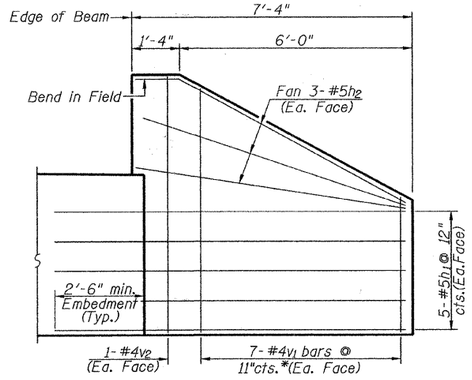
BAR s



BAR u

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.



WINGWALL ELEVATION

* See v_1 - bar cut diagram

TWO ABUTMENTS BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH	SHAPE
h	16	#4	25'-8"	——
h_1	40	#5	9'-6"	——
h_2	24	#5	7'-4"	——
p	16	#7	24'-4"	——
p_1	12	#5	24'-4"	——
s	54	#5	13'-5"	☐
u	20	#6	10'-1"	⊏
v	100	#4	4'-3"	——
v_1	28	#4	11'-0"	——
v_2	8	#4	7'-0"	——
Concrete Structures			Cu. Yd.	30.8
Reinforcement Bars			Pound	3540
Furnishing Steel Piles HP 10x42			Foot	160
Concrete Encasement			Cu. Yd.	15.5
Structure Excavation			Cu. Yd.	82
Setting Piles In Rock			Each	8

FILE NAME =	USER NAME =	DESIGNED -	REVISED -
		CHECKED -	REVISED -
	PLOT SCALE =	DRAWN -	REVISED -
	PLOT DATE =	CHECKED -	REVISED -

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

ABUTMENTS

SHEET NO. 8 OF 10 SHEETS

T.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
272	10-03114-00-BR	SHELBY	27	14
		CONTRACT NO. 95688		
	ILLINOIS FED. AID PROJECT			