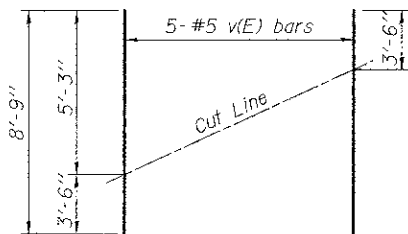
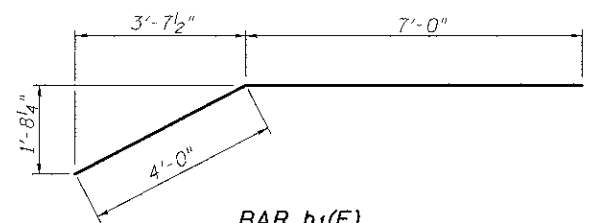


**PLAN**

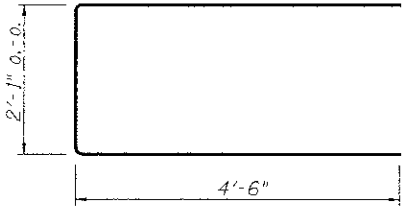


**FIELD CUTTING DIAGRAM**

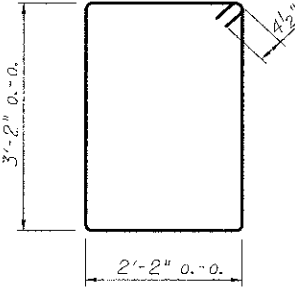
Order v(E) bars full length. Cut as shown and use remainder of bars in opposite face.



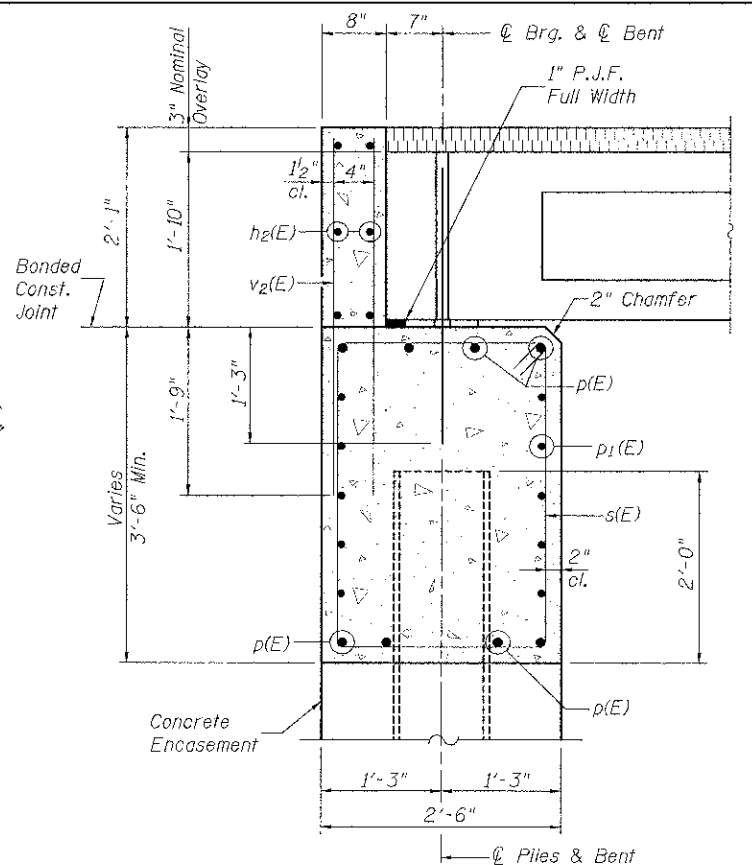
**BAR h1(E)**



**BAR u(E)**



**BAR s(E)**

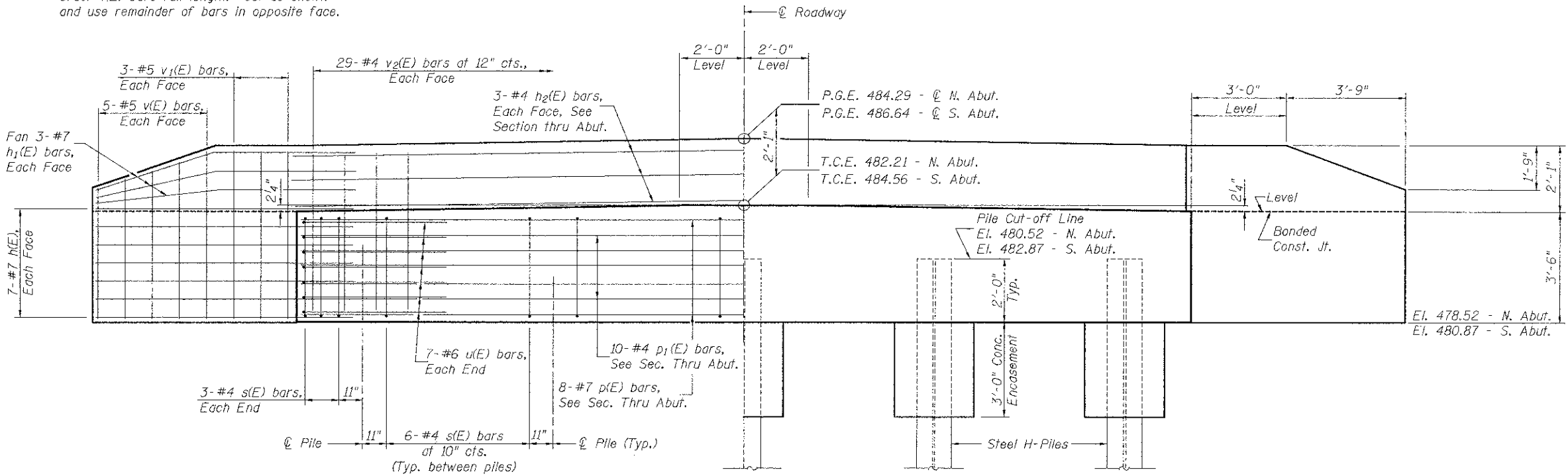


**SECTION THRU ABUTMENT**

**BILL OF MATERIAL FOR ONE ABUTMENT**

Bar	No.	Size	Length	Shape
h(E)	28	#7	10'-7"	—
h1(E)	12	#7	11'-0"	—
h2(E)	6	#4	28'-6"	—
p(E)	8	#7	28'-2"	—
p1(E)	10	#4	28'-2"	—
s(E)	30	#4	11'-5"	□
u(E)	14	#6	11'-1"	U
v(E)	10	#5	8'-9"	—
v1(E)	12	#5	5'-4"	—
v2(E)	58	#4	3'-9"	—
Concrete Structures			Cu. Yd.	13.5
Reinforcement Bars, Epoxy Coated			Pound	2,410
Concrete Encasement			Cu. Yd.	2.7
Furnishing Steel Piles HP 10x42 - North Abutment			Foot	250
Furnishing Steel Piles HP 10x42 - South Abutment			Foot	120
Driving Steel Piles - North Abut.			Foot	250
Driving Steel Piles - South Abut.			Foot	120
Test Pile Steel HP 10x42 - South Abutment			Each	1

For Details of Piles and Concrete Encasement, See Sheet 9 of 10.



**ELEVATION**

**PILE DATA**

	N. ABUT.	S. ABUT.
Type:	Steel HP 10x42	Steel HP 10x42
Nominal Required Bearing:	335 k	335 k
Factored Resistance Available:	184 k	184 k
Est. Length:	50 ft.	30 ft.
No. Production Piles:	5	4
No. Test Piles:	0	1

**NOTES**

- The Backwall and the portion of the Wingwalls above the bonded construction joint shall be cast against the in-place beams.
- Space reinforcement in cap to miss dowel rods.