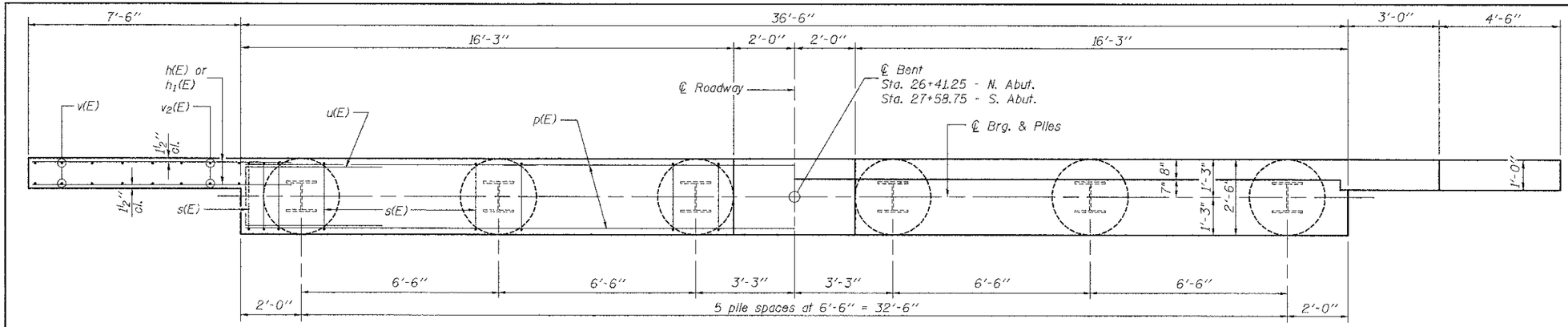
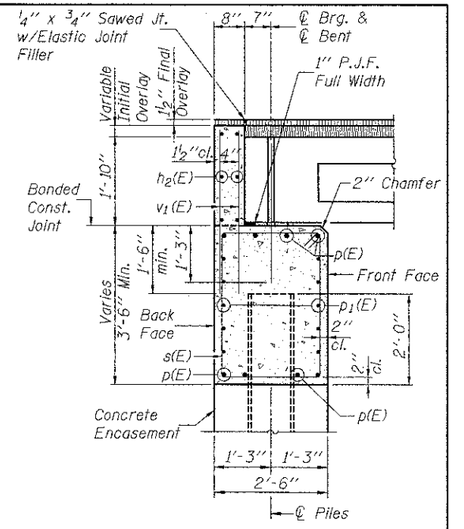
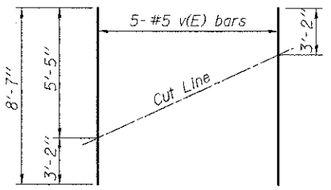


PLAN

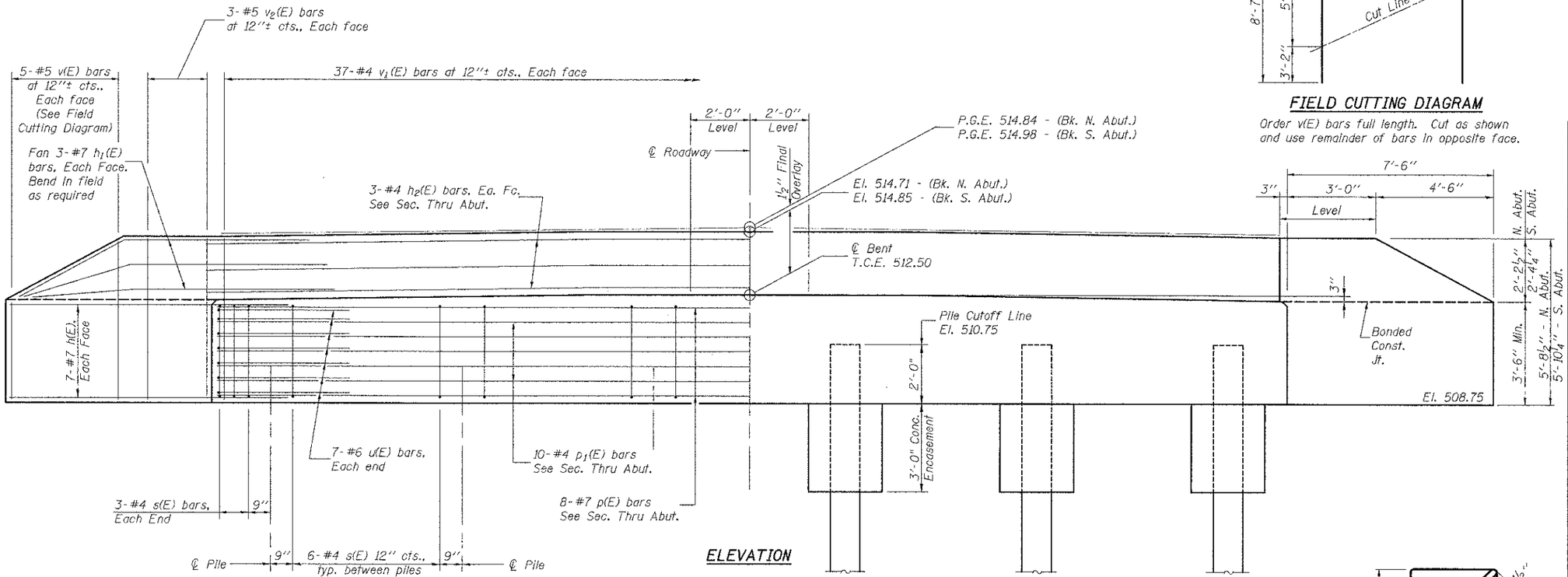


SECTION THRU ABUTMENT
(at Right Angles)



FIELD CUTTING DIAGRAM

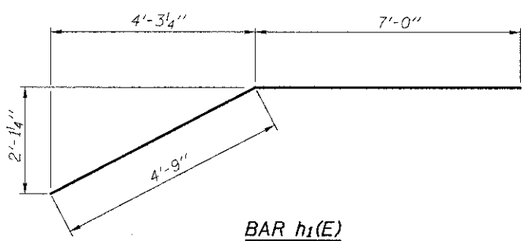
Order v(E) bars full length. Cut as shown and use remainder of bars in opposite face.



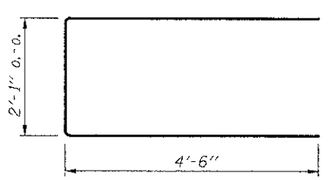
ELEVATION

PILE DATA

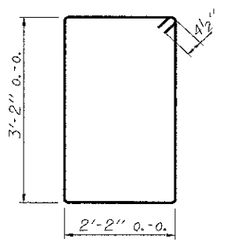
	N. ABUT.	S. ABUT.
Type:	Steel HP 12x53	Steel HP 12x53
Nominal Required Bearing:	419 k	419 k
Factored Resistance Available:	230 k	230 k
Est. Length:	36 ft.±	32 ft.±
No. Production Piles:	5	6
No. Test Piles:	1	0



BAR h1(E)



BAR u(E)



BAR s(E)

BILL OF MATERIAL FOR ONE ABUTMENT

Bar	No.	Size	Length	Shape
h(E)	28	#7	11'-4"	—
h1(E)	12	#7	11'-9"	⌐
h2(E)	6	#4	36'-6"	—
p(E)	8	#7	36'-2"	—
p1(E)	10	#4	36'-2"	—
s(E)	36	#4	11'-5"	⌐
u(E)	14	#6	11'-1"	⊏
v(E)	10	#5	8'-7"	—
v1(E)	74	#4	3'-9"	—
v2(E)	12	#5	5'-5"	—
Concrete Structures		Cu. Yd.	17.3	
Reinforcement Bars, Epoxy Coated		Pound	2,770	
Concrete Encasement		Cu. Yd.	3.3	
Furnishing Steel Piles HP 12x53 - North Abut.		Foot	180	
Furnishing Steel Piles HP 12x53 - South Abut.		Foot	192	
Driving Steel Piles - North Abutment		Foot	180	
Driving Steel Piles - South Abutment		Foot	192	
Test Pile Steel HP 12x53-North Abut.		Each	1	

Notes:
For Details of Piles and Concrete Encasement, see sheet 9 of 10.
The backwall and the portion of the Wingwalls above the bonded construction joint shall be cast against the in-place-beams.
Space reinforcement in pile cap to miss dowel rods.

FILE NAME = E:\5790\C_22_Bridge_abut_5790_05.dgn	USER NAME = USERDESCR	DESIGNED - B.I.B.	REVISED -
		DRAWN - K.H.L.	REVISED -
	PLOT SCALE = 2.0000 ' / IN.	CHECKED - L.D.G.	REVISED -
	PLOT DATE = 9/7/2012	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PILE BENT ABUTMENT

SCALE: | SHEET NO. 6 OF 10 SHEETS | STA. | TO STA.

FAS RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
779	07-00085-00-BR	BOND	41	22
	SN 003-3053	CONTRACT NO. 97508		
	ILLINOIS FEDERAL AID PROJECT			

HMG NO. 5790