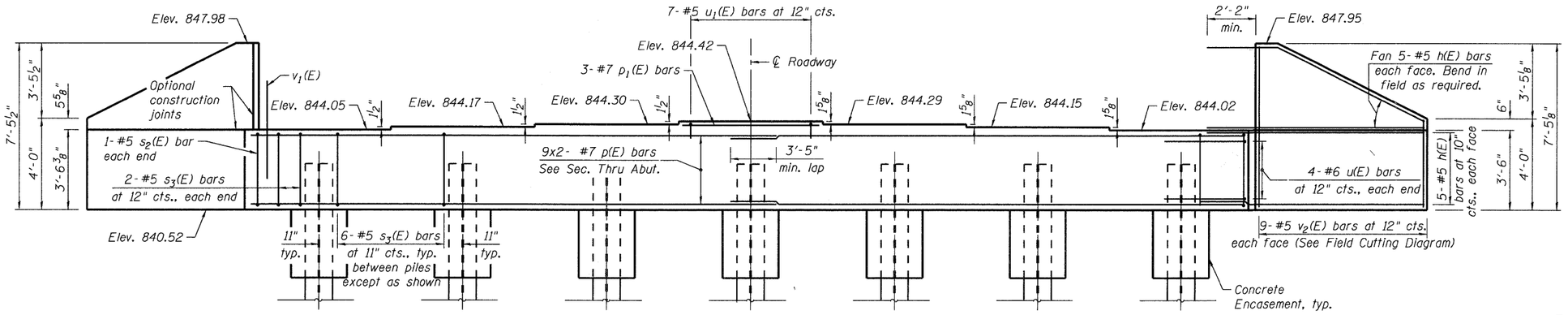
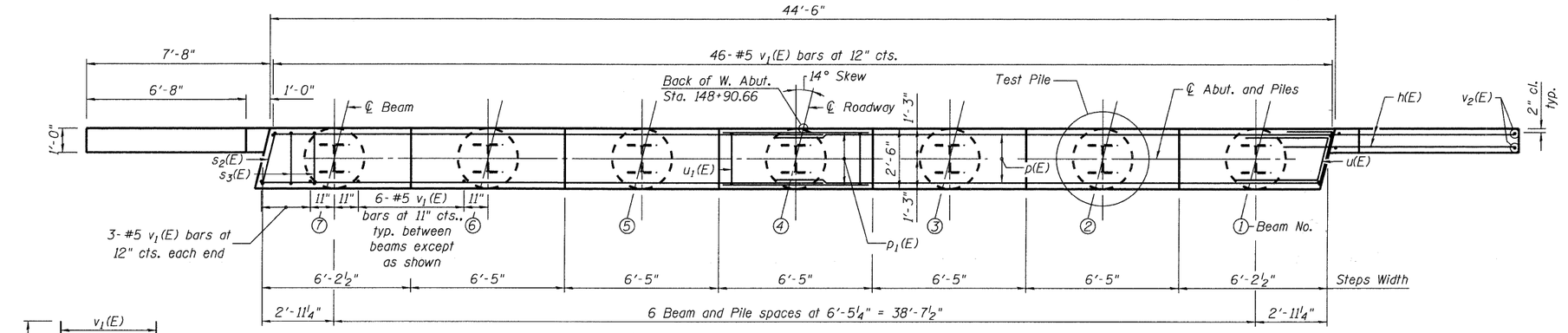
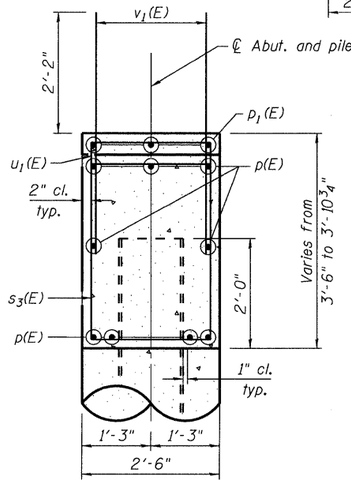


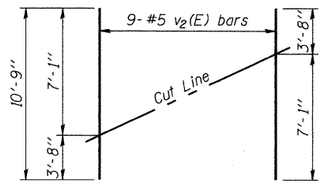
ELEVATION



PLAN

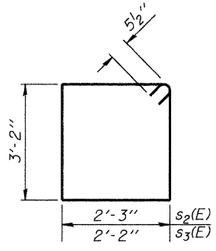


SEC. THRU ABUT.

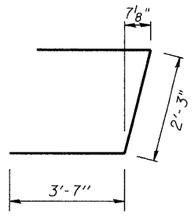


FIELD CUTTING DIAGRAM

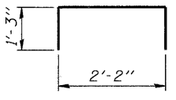
Order v_2(E) full length. Cut as shown and use remainder of bars in opposite face.



BARS s_2(E) & s_3(E)



BAR u(E)



BAR u_1(E)

PILE DATA

Type:	HP 14 x 73 w/ Pile Shoes
Nominal Required Bearing:	578 kips
Factored Resistance Available:	250 kips
Estimated Length:	61 ft.
Number of Production Piles:	6
Number of Test Piles:	1

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	40	#5	11'-0"	
p(E)	18	#7	24'-6"	
p_1(E)	3	#7	6'-1"	
s_2(E)	2	#5	11'-9"	
s_3(E)	40	#5	11'-7"	
u(E)	8	#6	9'-5"	
u_1(E)	7	#5	4'-8"	
v_1(E)	88	#5	4'-4"	
v_2(E)	18	#5	10'-9"	
Structure Excavation		Cu. Yd.	130.0	
Concrete Structures		Cu. Yd.	18.5	
Concrete Encasement		Cu. Yd.	3.8	
Reinforcement Bars, Epoxy Coated		Pound	2,660	
Furnishing Steel Piles, HP 14x73		Foot	378	
Driving Piles		Foot	378	
Pile Shoes		Each	7	
Test Piles Steel HP 14x73		Each	1	

NOTES:

Pour steps monolithically with cap.
For details of Bar Splicers, see sheet S-21.
For details of piles and Concrete Encasement, see sheet S-20.
Bars indicated thus 20 x 3- #5 etc. indicates 20 lines of bars with 3 lengths per line.

FILE NAME = \\aechgifp207\p60095673\p60095673\900.cad\901.drawings\sheet\structural\056-3177_60095673_S18_West_Abutment.sht

AECOM

USER NAME = debezicd
PLOT SCALE = 0:1 '1' / IN.
PLOT DATE = 5/28/2009

DESIGNED - DD
DRAWN - DD
CHECKED - ATB
DATE - 3/18/2009

REVISED -
REVISED -
REVISED -
REVISED -

MCHENRY COUNTY
DIVISION OF TRANSPORTATION

WEST ABUTMENT
STRUCTURE NO. 056-3177

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0031	06-00323-00-BR	MCHENRY	53	37
		CONTRACT NO. 63218		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		