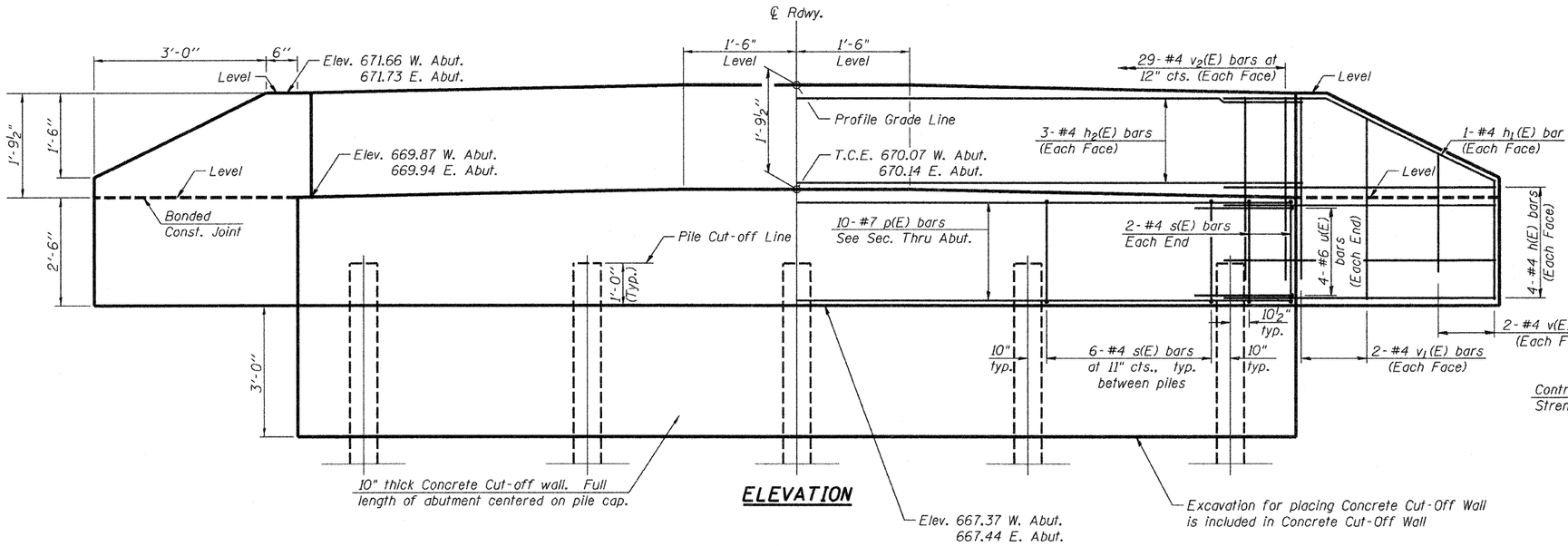
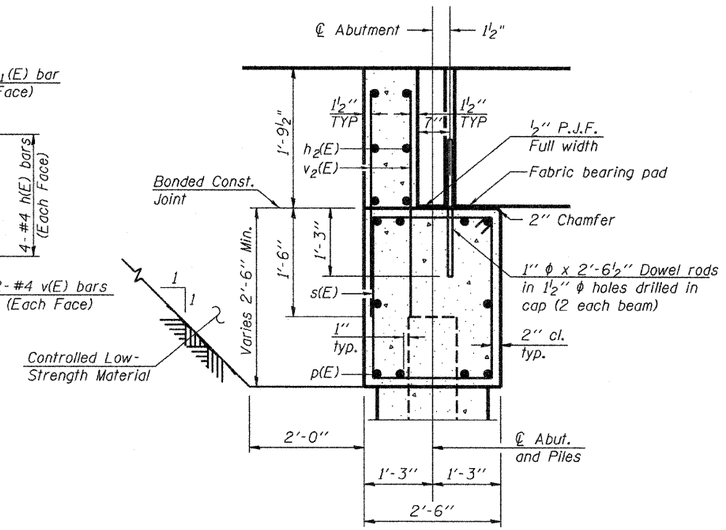
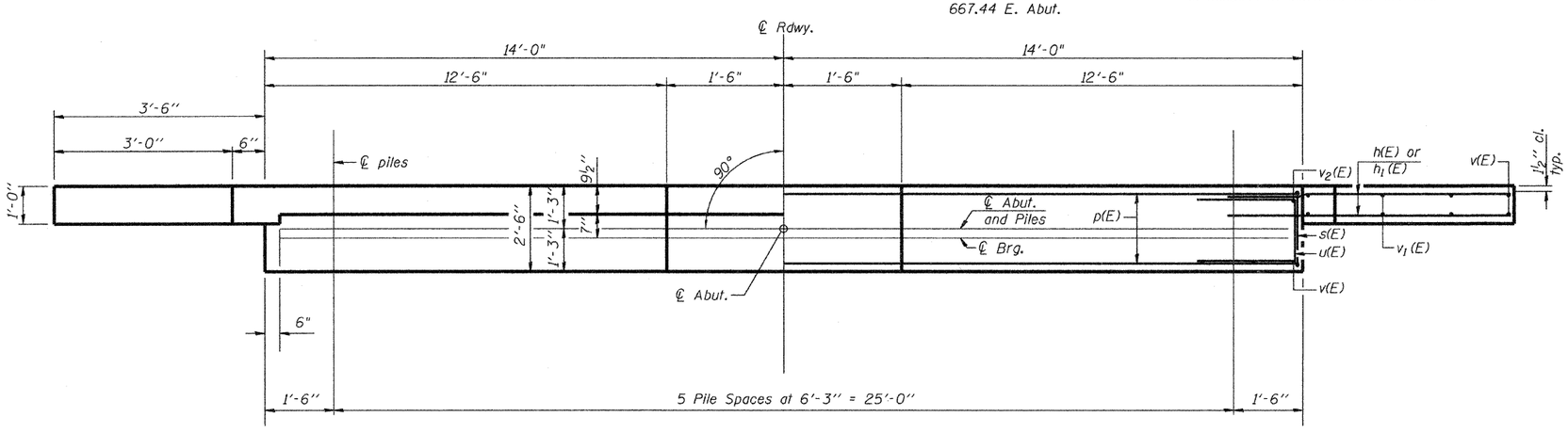


ELEVATION



SEC. THRU ABUT.



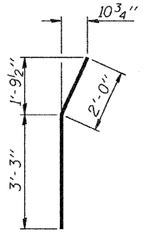
PLAN

BILL OF MATERIAL
TWO ABUTMENTS

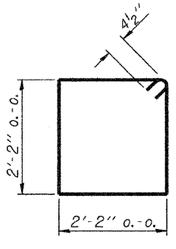
Bar	No.	Size	Length	Shape
h(E)	32	#4	5'-0"	
h1(E)	8	#4	5'-3"	
h2(E)	12	#4	27'-8"	
p(E)	20	#7	27'-8"	
s(E)	56	#4	9'-5"	
u(E)	16	#6	11'-1"	
v(E)	16	#4	2'-6"	
v1(E)	16	#4	3'-6"	
v2(E)	116	#4	3'-5"	
Structure Excavation		Cu. Yd.	77.7	
Concrete Structures		Cu. Yd.	18.3	
Reinforcement Bars, Epoxy Coated		Pound	2440	
Furnishing Steel Piles HP 10x42		Foot	460	
Driving Piles		Foot	460	
Concrete Cut-off Wall		Cu. Yd.	5.2	
Test Piles Steel HP 10x42		Each	2	
Controlled Low-Strength Material		Cu. Yd.	40.9	
Pile Shoes		Each	10	

PILE DATA (2-ABUTS.)

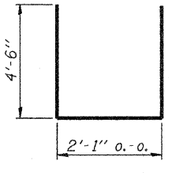
Type	STEEL HP 10x42
Nominal Required Bearing	350 kips
Factored Resistance Available	152 kips
Estimated Pile Length	60 Feet North East and 55 Feet West Abut.
Number of Production Piles	8
Number of Test Piles	2 (1 In Each Abutment)



BAR h1(E)



BAR s(E)



BAR u(E)

Notes

The Backwall and the portion of the Wingwalls above the bonded construction joint shall be cast against the in-place beam.

Space reinforcement in cap to miss anchor bolts.

ESI CONSULTANTS, LTD
753 WINDSOR ROAD
CHARLESTON, IL 61920
(217) 549-1000
WWW.ESIICONSULTANTSLTD.COM
ILLINOIS DEPARTMENT OF PROFESSIONAL REGULATION REGISTRATION #184-003685

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ABUTMENT DETAILS
TR 413 OVER FREEDWELL BRANCH

DATE: 02-05-10 DRAWN BY: JEH CHECKED BY: DF

SHEET NO. 5 OF 7 SHEETS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	-	08-09121-00-BR	VERMILION	14	8
		SN 092-3514	CONTRACT NO. 91431		
	FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		