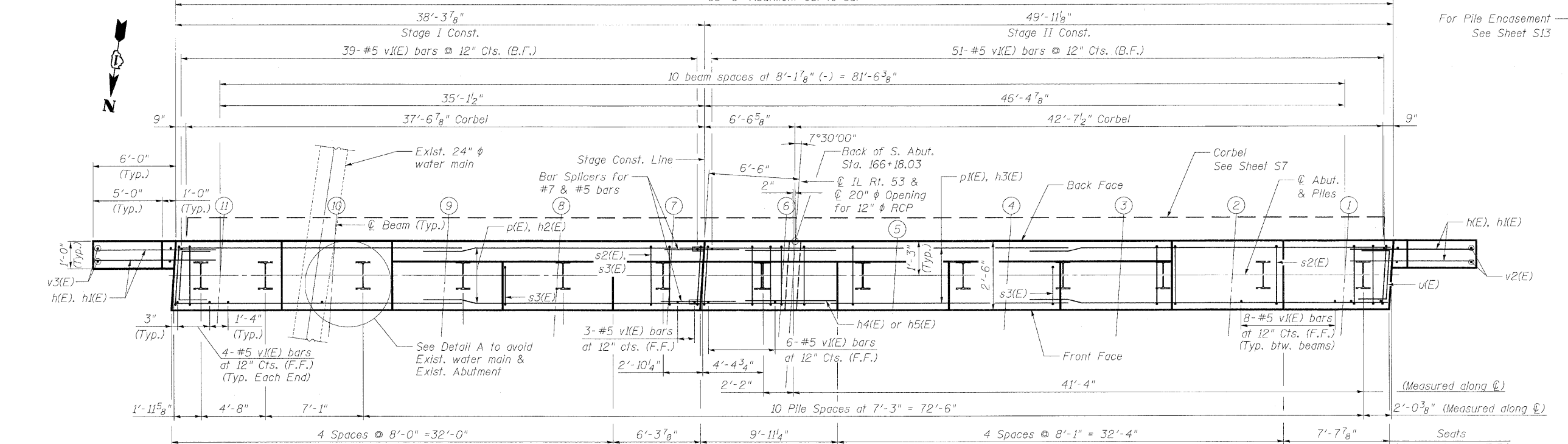


**BILL OF MATERIAL**

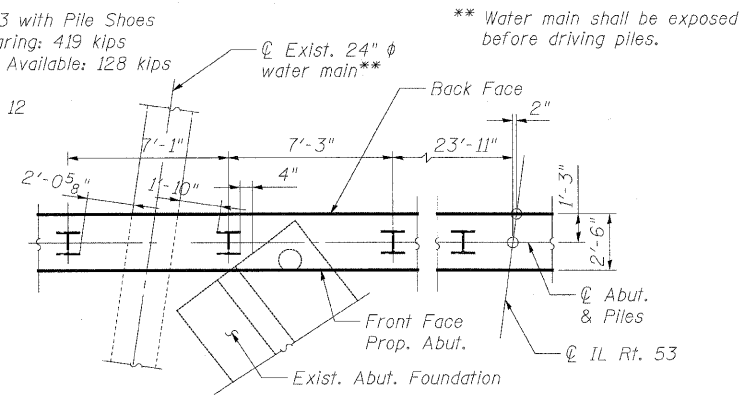
Bar	No.	Size	Length	Shape	
h(E)	20	# 5	7'- 8"	—	
h1(E)	24	# 5	8'- 7"	—	
h2(E)	2	# 5	13'- 11"	—	
h3(E)	2	# 5	25'- 3"	—	
h4(E)	2	# 5	9'- 6"	—	
h5(E)	4	# 5	3'- 0"	—	
p(E)	12	# 7	20'- 4"	—	
p1(E)	12	# 7	26'- 4"	—	
s2(E)	87	# 4	11'- 5"	□	
s3(E)	42	# 4	5'- 5"	□	
u(E)	8	# 6	6'- 2"	└	
v1(E)	179	# 5	4'- 4"	—	
v2(E)	7	# 5	12'- 1"	—	
v3(E)	7	# 5	12'- 2"	—	
* Porous Granular Embankment, Special				Cu. Yd.	118
Structure Excavation				Cu. Yd.	92
Concrete Structures				Cu. Yd.	33.8
Reinforcement Bars, Epoxy Coated				Pound	3,510
Furnishing Steel Piles HP12x53				Foot	744
Driving Piles				Foot	744
Test Piles Steel HP12x53				Each	1
Bar Splicers				Each	8
Pile Shoes				Each	12

\* See Special Provisions

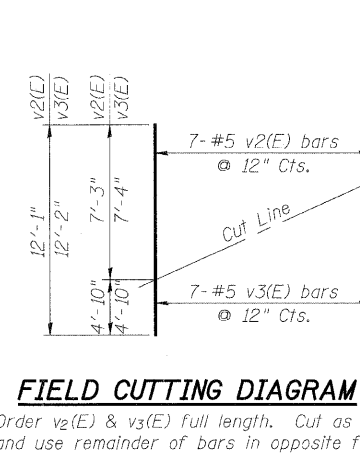


**PILE DATA**

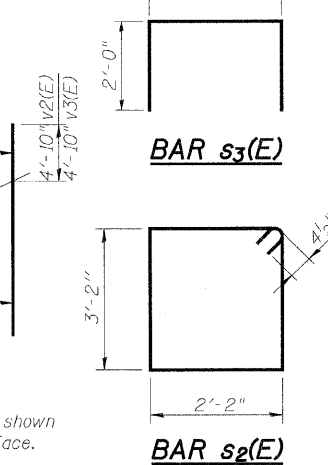
Type: Steel HP 12x53 with Pile Shoes  
 Nominal Required Bearing: 419 kips  
 Allowable Resistance Available: 128 kips  
 Est. Length: 62 ft  
 No. Production Piles: 12  
 No. Test Piles: 1



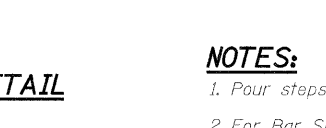
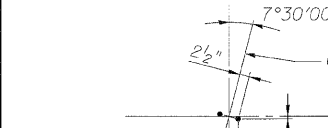
**FIELD CUTTING DIAGRAM**



**ANCHOR BOLT DETAIL**



BAR SIZE	MIN. LAP SPLICE
#4	1'-4"
#5	1'-8"
#6	2'-0"
#7	2'-9"



**NOTES:**  
 1. Pour steps monolithically with cap.  
 2. For Bar Splicer Details see sheet S15.