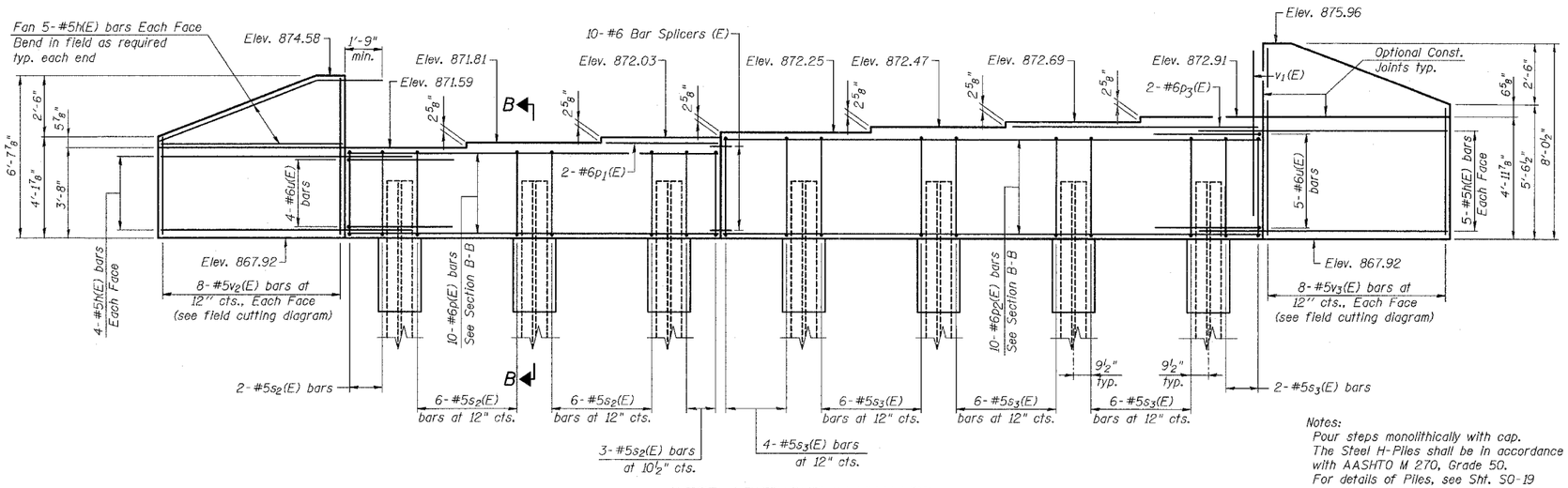
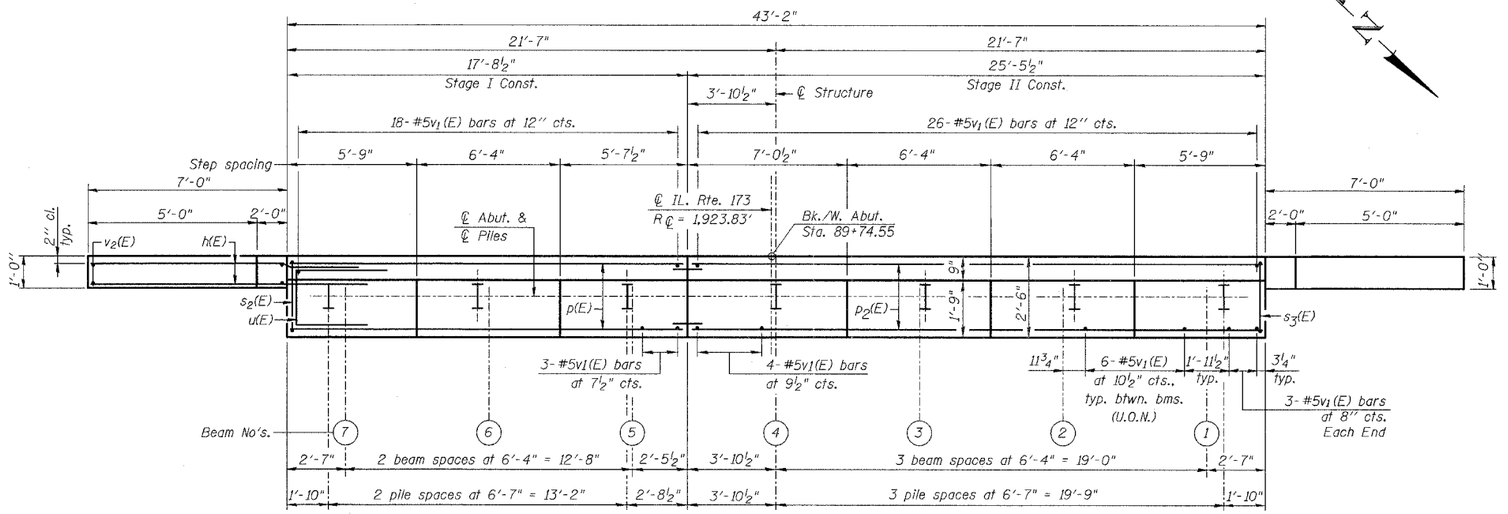
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	131B(1&2)BR	McHENRY	107	54
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 60B83



WEST ABUTMENT ELEVATION
(LOOKING WEST)

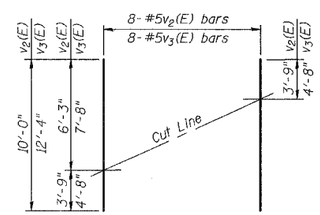
Notes:
Pour steps monolithically with cap.
The Steel H-Piles shall be in accordance with AASHTO M 270, Grade 50.
For details of Piles, see Sht. SO-19



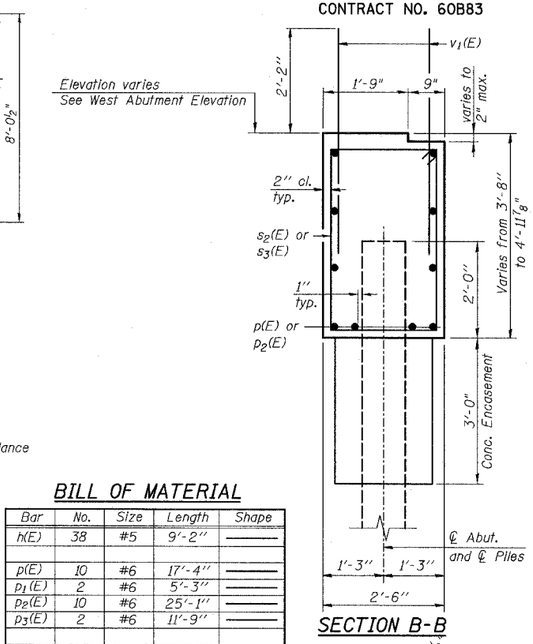
PLAN

LEGEND:
U.O.N. = Unless Otherwise Noted

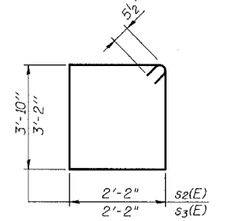
PILE DATA
Type: Steel HP 12x53 with Pile Shoes
Nominal Required Bearing: 419 kips
Factored Resistance Available: 139.6 kips
Est. Length: 57 ft.
No. Production Piles: 6
No. Test Piles: 1



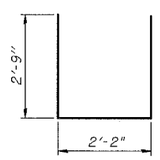
FIELD CUTTING DIAGRAM
Order $v_2(E)$ & $v_3(E)$ full length. Cut as shown and use remainder of bars in opposite face.



SECTION B-B



BARS s2(E) & s3(E)



BAR u(E)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	38	#5	9'-2"	
p(E)	10	#6	17'-4"	
p1(E)	2	#6	5'-3"	
p2(E)	10	#6	25'-1"	
p3(E)	2	#6	11'-9"	
s2(E)	17	#5	11'-7"	☑
s3(E)	24	#5	12'-11"	☑
u(E)	9	#6	7'-8"	
v1(E)	87	#5	4'-6"	
v2(E)	8	#5	10'-0"	
v3(E)	8	#5	12'-4"	
Structure Excavation		Cu. Yd.	106	
Concrete Structures		Cu. Yd.	20.4	
Reinforcement Bars, Epoxy Coated		Pound	2,280	
Furnishing Steel Piles HP 12x53		Foot	342	
Driving Piles		Foot	342	
Test Pile Steel HP 12x53		Each	1	
Bar Splicers		Each	10	
Porous Granular Embankment, Special		Cu. Yd.	56	
Stone Riprap, Class A4		Sq. Yd.	241	
Filter Fabric		Sq. Yd.	157	
Pipe Underdrains for Structures, 4"		Foot	79	
Geocomposite Wall Drain		Sq. Yd.	28	
Pile Shoes		Each	7	
Concrete Encasement		Cu. Yd.	2.5	

For details of Bar Splicers, see Sheet SO-16

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

WEST ABUTMENT
IL. RTE. 173
OVER
PISCASAW CREEK OVERFLOW
F.A.P. RTE. 303 SECTION: 131B(1&2)BR
McHENRY COUNTY STATION 90+20.80
STRUCTURE NO. 056-0089

SCALE:
DATE: APRIL 13, 2007
DRAWN BY: D.L./F.M.
CHECKED BY: B.N.S./J.C.N.

CHRISTIAN-ROGE & ASSOC., INC.
CHICAGO ILLINOIS

...\sht\sht-SO-13.dgn 4/13/2007 2:32:48 PM