

F.A.P. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	L31B(1&2)BR	McHENRY	107	80
STA.	TO STA.		FED. AID PROJECT	
			ILLINOIS	

CONTRACT NO. 60B83

**ABUTMENT  
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h(E)	6	#5	21'-11"	
h <sub>1</sub> (E)	10	#5	7'-11"	
h <sub>2</sub> (E)	10	#5	7'-11"	
h <sub>3</sub> (E)	10	#4	12'-5"	
h <sub>4</sub> (E)	12	#4	11'-3"	
h <sub>5</sub> (E)	5	#6	21'-11"	
h <sub>6</sub> (E)	6	#5	32'-8"	
h <sub>7</sub> (E)	5	#6	32'-8"	
h <sub>8</sub> (E)	10	#4	9'-8"	
n(E)	22	#6	11'-4"	
n <sub>1</sub> (E)	12	#6	5'-8"	
p <sub>10</sub> (E)	3	#7	24'-2"	
p <sub>11</sub> (E)	2	#7	23'-7"	
p <sub>12</sub> (E)	3	#7	21'-4"	
p <sub>13</sub> (E)	3	#7	32'-11"	
p <sub>14</sub> (E)	2	#7	35'-2"	
p <sub>15</sub> (E)	3	#7	37'-5"	
p <sub>16</sub> (E)	1	#5	16'-8"	
p <sub>17</sub> (E)	1	#5	19'-3"	
p <sub>18</sub> (E)	12	#7	11'-6"	
s(E)	55	#4	15'-11"	
s <sub>1</sub> (E)	26	#4	9'-5"	
u(E)	4	#6	11'-3"	
u <sub>1</sub> (E)	4	#6	10'-5"	
v(E)	57	#5	3'-1"	
v <sub>1</sub> (E)	57	#4	3'-0"	
v <sub>2</sub> (E)	25	#6	5'-10"	
v <sub>3</sub> (E)	6	#6	5'-10"	
v <sub>4</sub> (E)	18	#6	5'-10"	
v <sub>5</sub> (E)	57	#4	3'-7"	
v <sub>6</sub> (E)	57	#4	4'-9"	
Structure Excavation	Cu. Yd.	117.9		
Concrete Structures	Cu. Yd.	58.8		
Reinforcement Bars, Epoxy Coated	Pound	4,840		
Furnishing Steel Piles, HP 12x53	Foot	832		
Driving Piles	Foot	832		
Test Pile Steel HP 12x53	Each	1		
Bar Splicers	Each	74		
Porous Granular Embankment, Special	Cu. Yd.	67.2		
Pipe Underdrains for Structures, 4"	Foot	91		
Geocomposite Wall Drains	Sq. Yd.	14.5		
Pile Shoes	Each	17		

For details of Bar Splicers, see sheet S19  
For details of piles see sheet S21  
Work this sheet with sheet S15

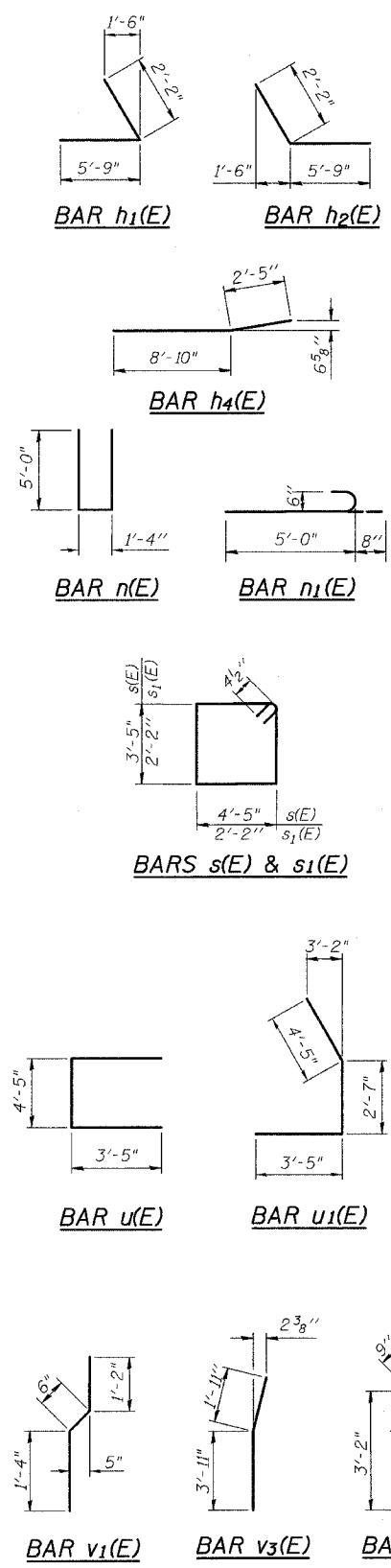
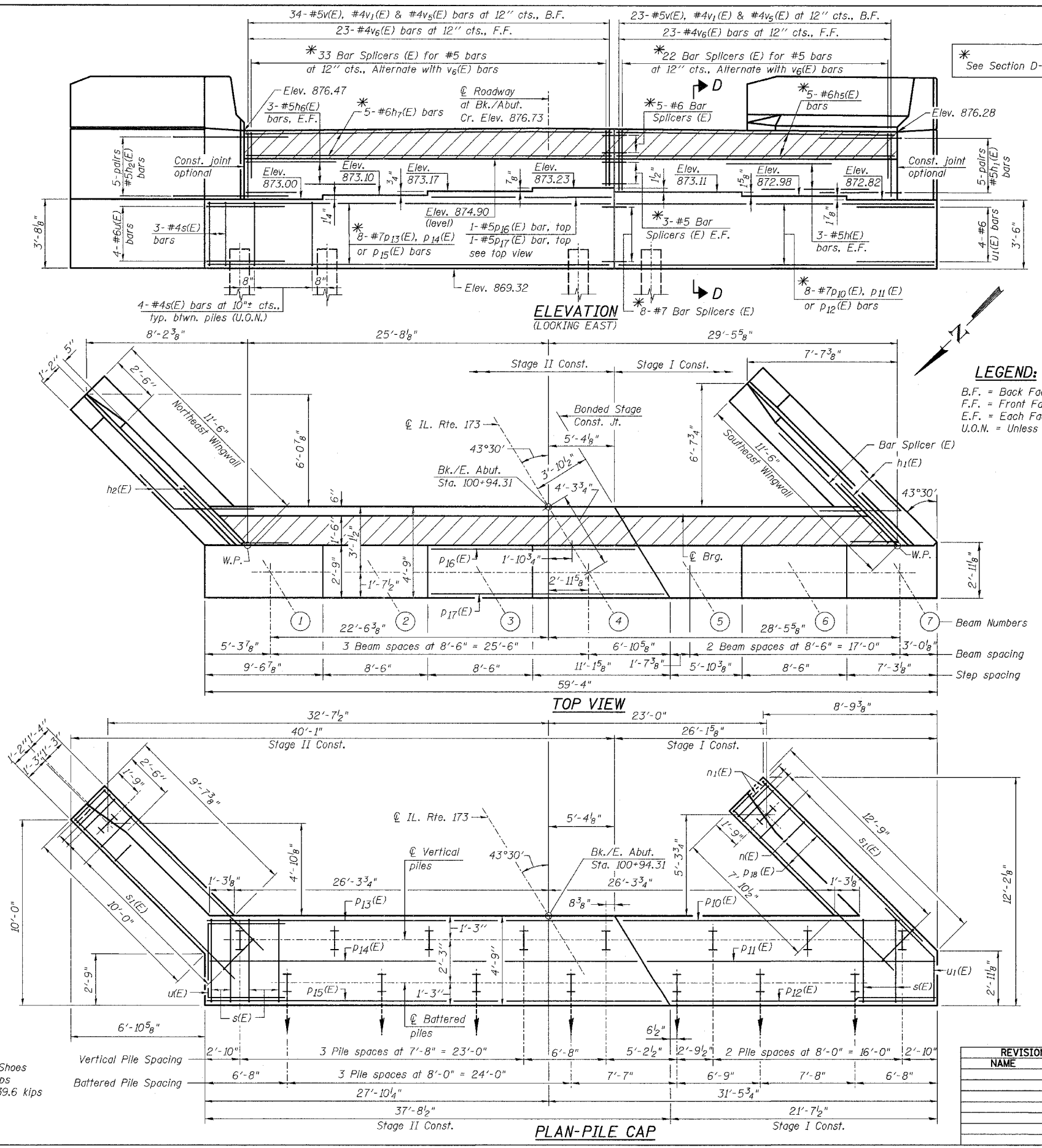
ILLINOIS DEPARTMENT OF TRANSPORTATION

EAST ABUTMENT  
IL. RTE. 173  
OVER  
PISCASAW CREEK  
F.A.P. RTE. 303 SECTION: 131B(1&2)BR  
McHENRY COUNTY STATION 100+00.00  
STRUCTURE NO. 056-0090

SCALE: DATE: APRIL 2, 2007  
DRAWN BY: D.L./F.M.  
CHECKED BY: B.N.S./J.C.N.

CHRISTIAN-ROGE & ASSOC., INC.  
CHICAGO ILLINOIS

REVISIONS	
NAME	DATE



**PILE DATA**  
Type: Steel HP 12x53 with Pile Shoes  
Nominal Required Bearing: 419 kips  
Factored Resistance Available: 139.6 kips  
Est. Length: 52 ft.  
No. Production Piles: 16  
No. Test Piles: 1