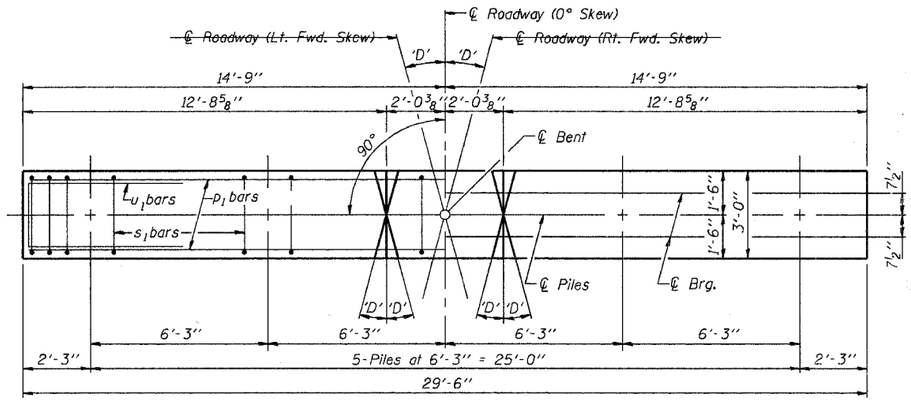
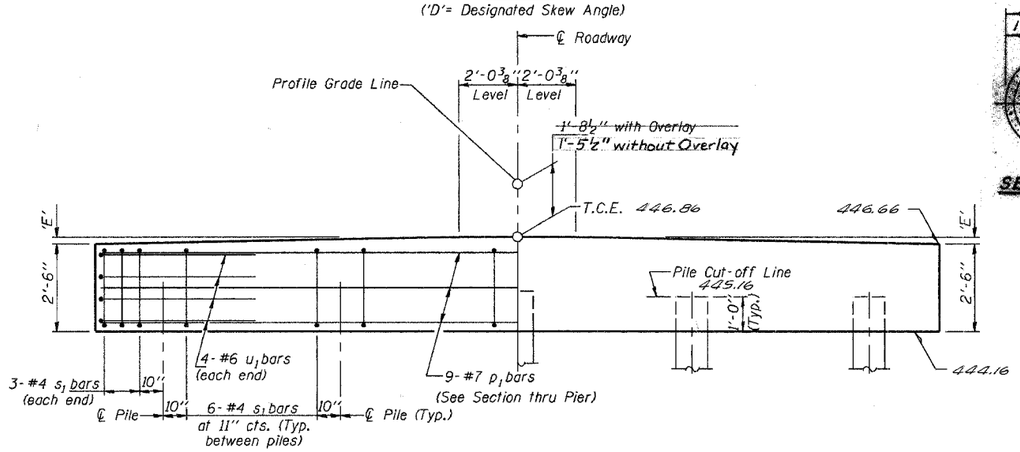
CONTRACT NO. 95495

F.A.S. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET
	25-02115-00-BR	CRAWFORD	10	7
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	PROJECT		

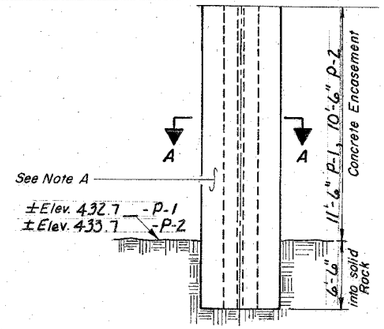


PLAN

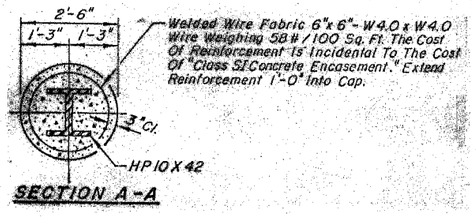
('D'= Designated Skew Angle)



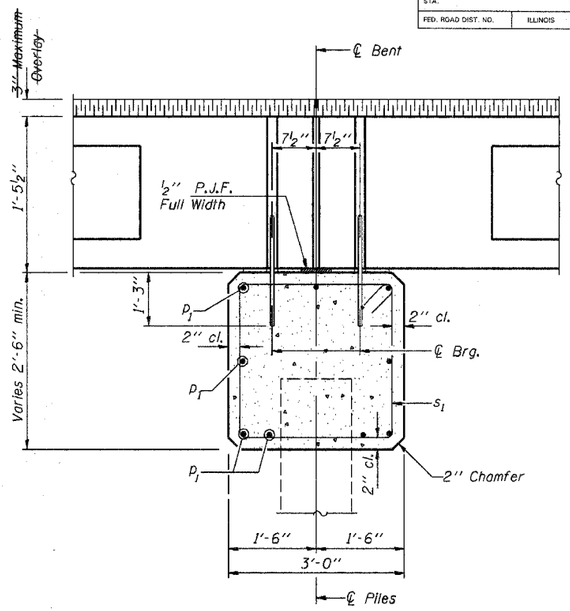
ELEVATION



NOTE "A": PRECORE THROUGH THE EXISTING EARTH AND ROCK AS SHOWN. PILES SHALL BE GROUTED INTO THE ROCK WITH CLASS SI CONCRETE. PRECORED HOLES SHALL BE CLEAN AT TIME OF PILE PLACEMENT AND GROUTING. SEE SPECIAL PROVISIONS.

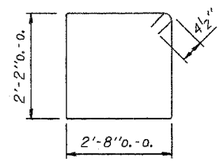


SECTION A-A

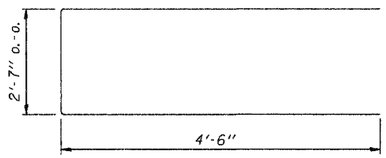


SECTION THRU PIER

(At Right Angles)



BAR s_1



BAR u_1

BILL OF MATERIAL FOR ONE PIER

Bar	No.	Size	Length	Shape
p_1	9	#7	29'-2"	
s_1	30	#4	10'-5"	
u_1	8	#6	11'-7"	
Concrete Structures			8.6	Cu. Yds.
Reinforcement Bars			880	Lb.

DIMENSION 'E'

GRADE	'D'=0°		'D'=5°		'D'=10°	
	UPGRADE END	DOWNGRADE END	UPGRADE END	DOWNGRADE END	UPGRADE END	DOWNGRADE END
0%	2 3/8"	2 3/8"	2 3/8"	2 3/8"	2 3/8"	2 3/8"
Over 0% to 1%	2 3/8"	2 3/8"	2 1/4"	2 3/8"	2 1/8"	2 1/2"
Over 1% to 2%	2 3/8"	2 3/8"	2 1/8"	2 1/2"	1 7/8"	2 3/4"
Over 2% to 3%	2 3/8"	2 3/8"	2"	2 5/8"	1 5/8"	3"
Over 3% to 4%	2 3/8"	2 3/8"	1 7/8"	2 3/4"	1 3/8"	3 1/4"

MAXIMUM PILE LOADS

SPAN	TONS
25'	30
30'	33
35'	36
40'	40

Longer of Either Span Supported by Pier.

DESIGN STRESSES

f'c = 3,500 psi
fy = 60,000 psi

NOTE

Reinforcement bars shall conform to the requirements of A.A.S.H.T.O. M-31 or M-322, Grade 60.

Illinois Department of Transportation

PASSED APRIL 4, 2005
Thomas J. Domagalski
Engineer of Bridge Design
APPROVED APRIL 4, 2005
Ralph E. Anderson
Engineer of Bridges and Structures

ISSUED 1-1-1981

P.P.C. DECK BEAMS PILE BENT PIER		
28' RDWY.	17" BMS.	'D'=0°, 5° OR 10°
STANDARD CP-2817-10		