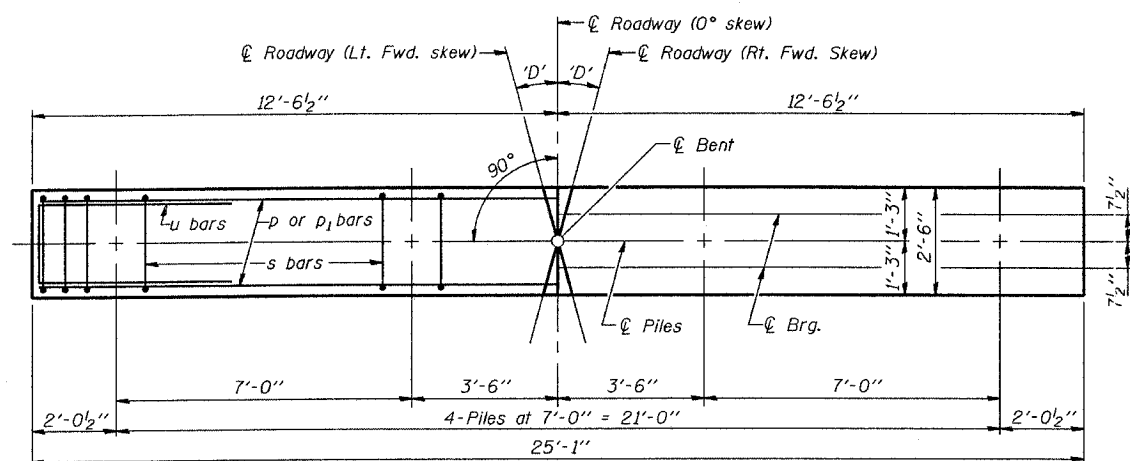
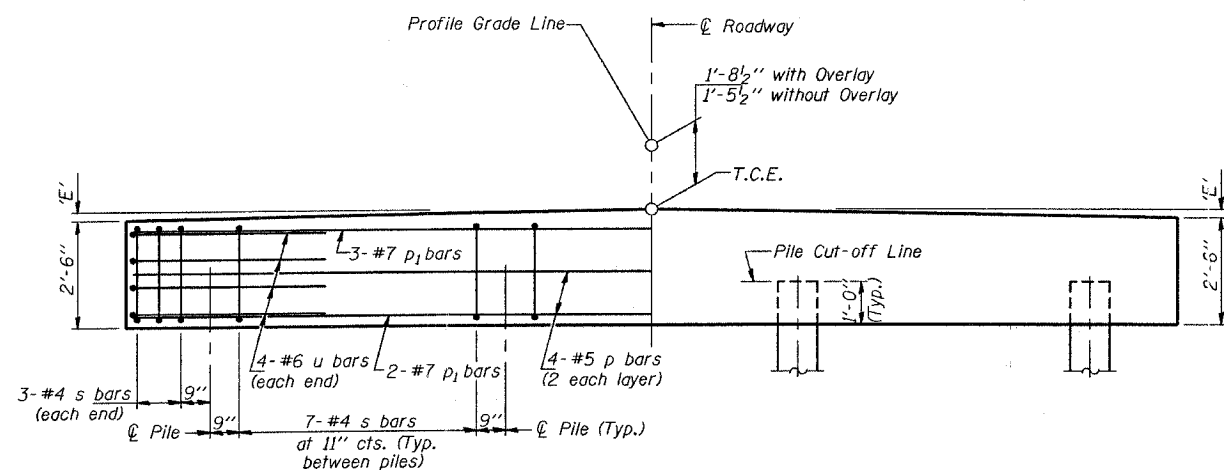


SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
02-0811B-00-BR	FAYETTE	14	10
CONTRACT NO. 95429			



**PLAN**  
(D' = Designated Skew Angle)



**ELEVATION**

**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 3/8"	2 1/2"
Over 1% to 2%	2 3/8"	2 3/8"	2 1/2"	2 3/8"	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"

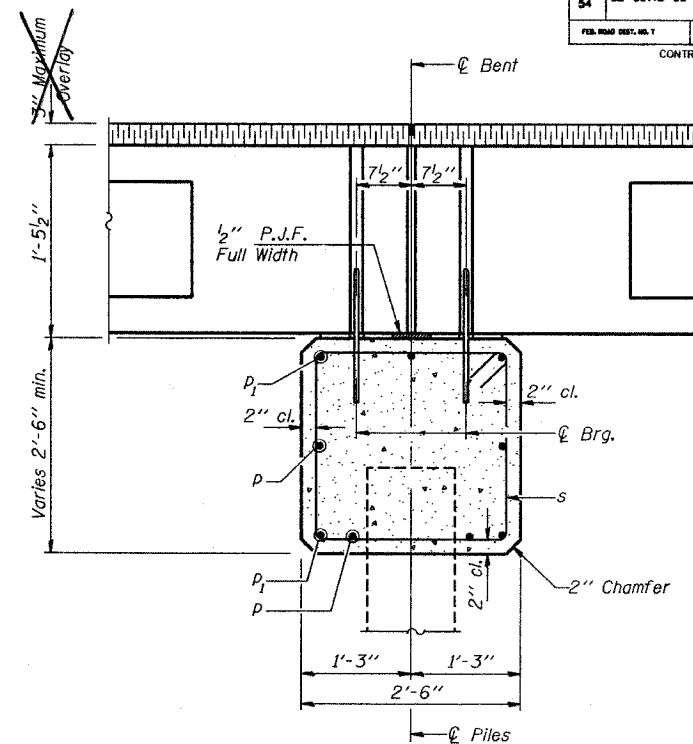
**MAXIMUM PILE LOADS**

SPAN	TONS
25'	35
30'	37
35'	41
40'	44

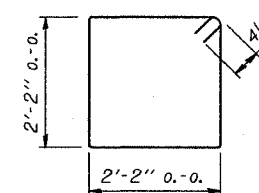
Longer of Either Span Supported by Pier.

**DESIGN STRESSES**

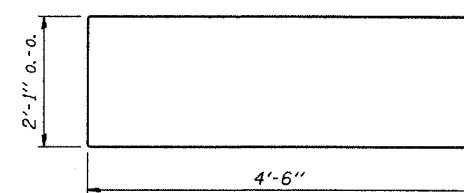
f'c = 3,500 psi  
fy = 60,000 psi



**SECTION THRU PIER**  
(At Right Angles)



**Bar s**



**Bar u**

**BILL OF MATERIAL FOR ONE PIER**

Bar	No.	Size	Length	Shape
p	4	#5	24'-9"	—
p1	5	#7	24'-9"	—
s	27	#4	9'-5"	□
u	8	#6	11'-1"	—
Concrete Structures			6.0	Cu. Yds.
Reinforcement Bars			660	Lbs.

**NOTE**

Reinforcement bars shall conform to A.A.S.H.T.O. M-31, M-42 or M-53, Grade 60.

Illinois Department of Transportation  
 PASSED November 1, 1995  
 Prof. J. Kasper  
 Engineer of Bridge Design  
 APPROVED November 1, 1995  
 Ralph E. Anderson  
 Engineer of Bridges and Structures

**P.P.C. DECK BEAMS  
 PILE BENT PIER**  
 24' RDWY. 17" BMS. 'D'=0°, 5° OR 10°  
 STANDARD CP-2417-10