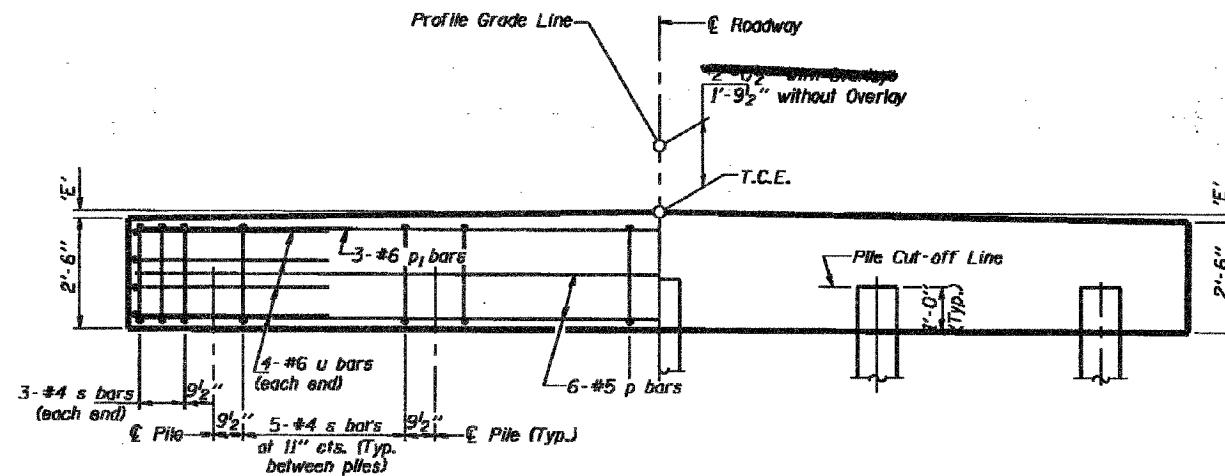


**PLAN**  
(D' = Designated Skew Angle)



**ELEVATION**

**DIMENSION 'E'**

GRADE	D'=0°		D'=5°		D'=10°	
	UPGRADE END	DOWNGRADE END	UPGRADE END	DOWNGRADE END	UPGRADE END	DOWNGRADE END
0X	[Diagrammatic representation of reinforcement layout]					
Over 0X to 1X	[Diagrammatic representation of reinforcement layout]					
Over 1X to 2X	[Diagrammatic representation of reinforcement layout]					
Over 2X to 3X	[Diagrammatic representation of reinforcement layout]					
Over 3X to 4X	[Diagrammatic representation of reinforcement layout]					

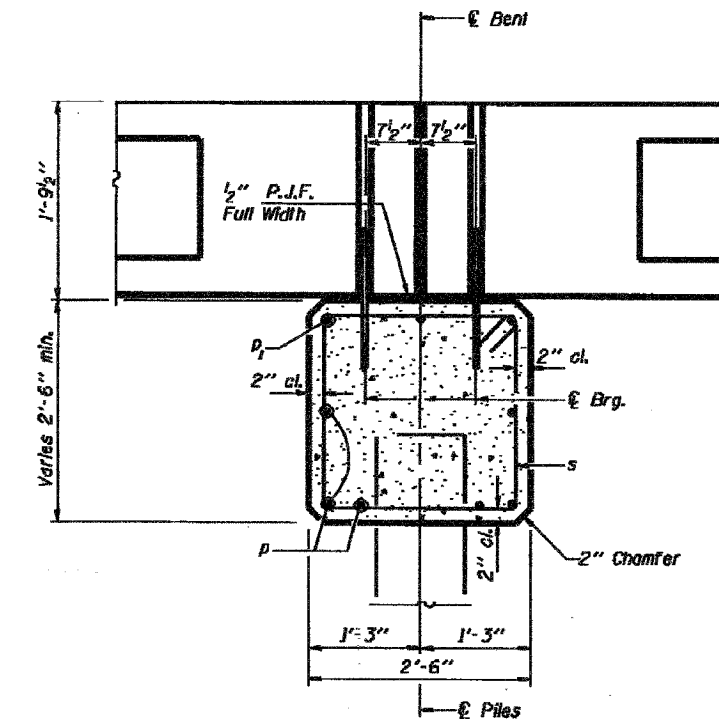
**MAXIMUM PILE LOADS**

SPAN	TONS
35'	35
50'	44

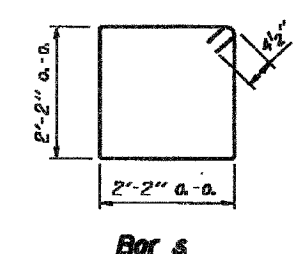
Longer of Either Span Supported by Pier.

**DESIGN STRESSES**

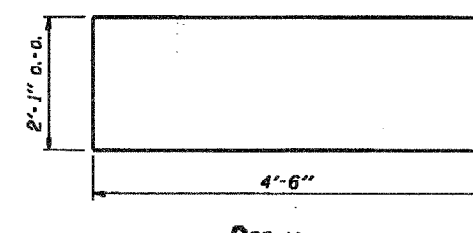
$f'_c = 3,500 \text{ psi}$   
 $f_y = 60,000 \text{ psi}$



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



**Bar s**



**Bar u**

**BILL OF MATERIAL FOR ONE PIER**

Bar	No.	Size	Length	Shape
p	6	#5	24'-9"	—
p1	3	#6	24'-9"	—
s	26	#4	9'-5"	□
u	8	#6	11'-1"	—
Concrete Structures			6.0	Cu. Yds.
Reinforcement Bars			560	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  
 [Signature]  
 Engineer of Bridge Design  
 APPROVED November 1, 1995  
 [Signature]  
 Engineer of Bridges and Structures

**P.P.C. DECK BEAMS  
 PILE BENT PIER**

24' RDWY.	21" BMS.	D'=0°, 5° OR 10°
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**STANDARD CP-2421-10**