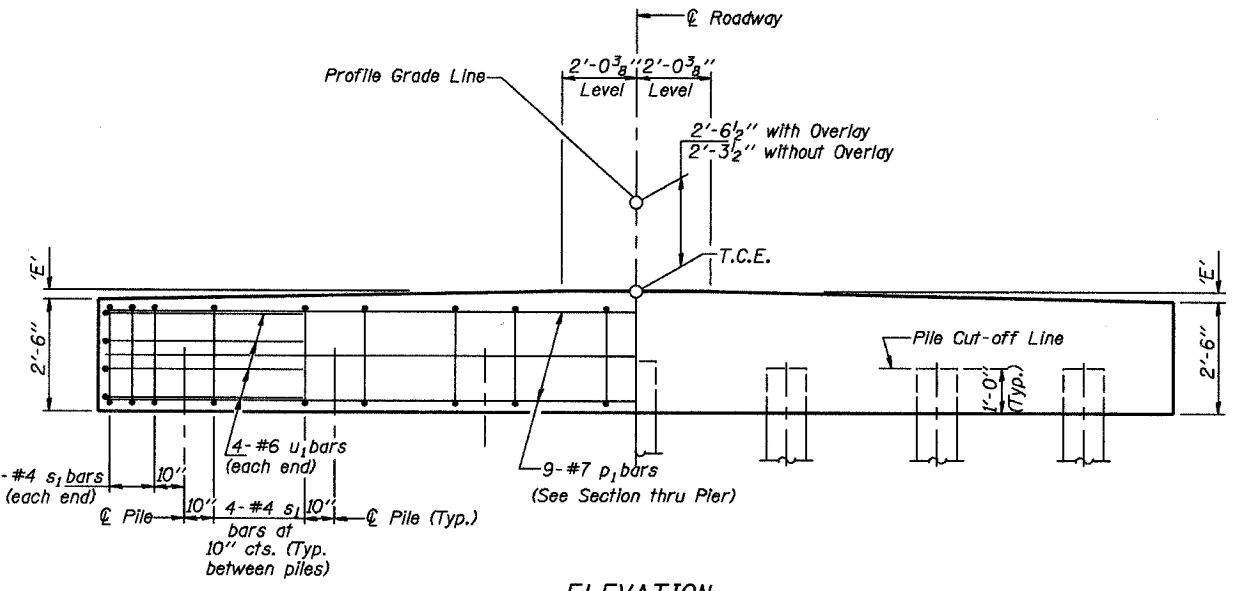


PLAN
(*'D'* = Designated Skew Angle)



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

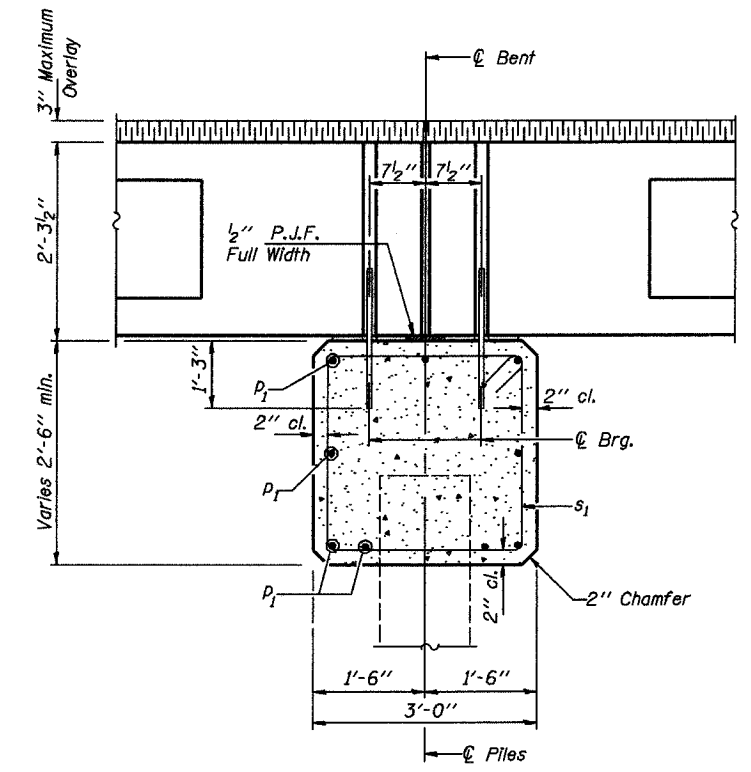
MAXIMUM PILE LOADS

SPAN	TONS
40'	33
50'	38
60'	43

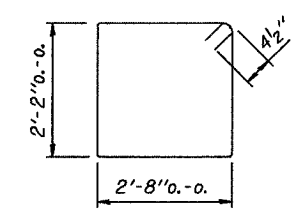
Longer of Either Span Supported by Pier.

DESIGN STRESSES

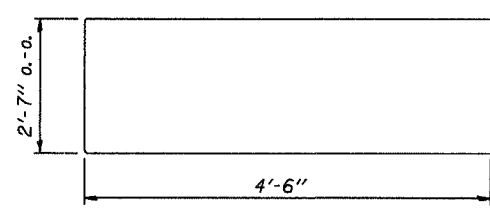
$f'_c = 3,500 \text{ psi}$
 $f_y = 60,000 \text{ psi}$



SECTION THRU PIER
(At Right Angles)



BAR s₁



BAR u₁

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.

Illinois Department of Transportation
 PASSED APRIL 3, 2005
 Theresia Demagala
 Engineer of Bridge Design
 APPROVED APRIL 4, 2005
 Ralph E. Anderson
 Engineer of Bridges and Structures

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

28' RDWY.	27" BMS.	'D'=0°, 5° OR 10°
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STANDARD CP-2827-10