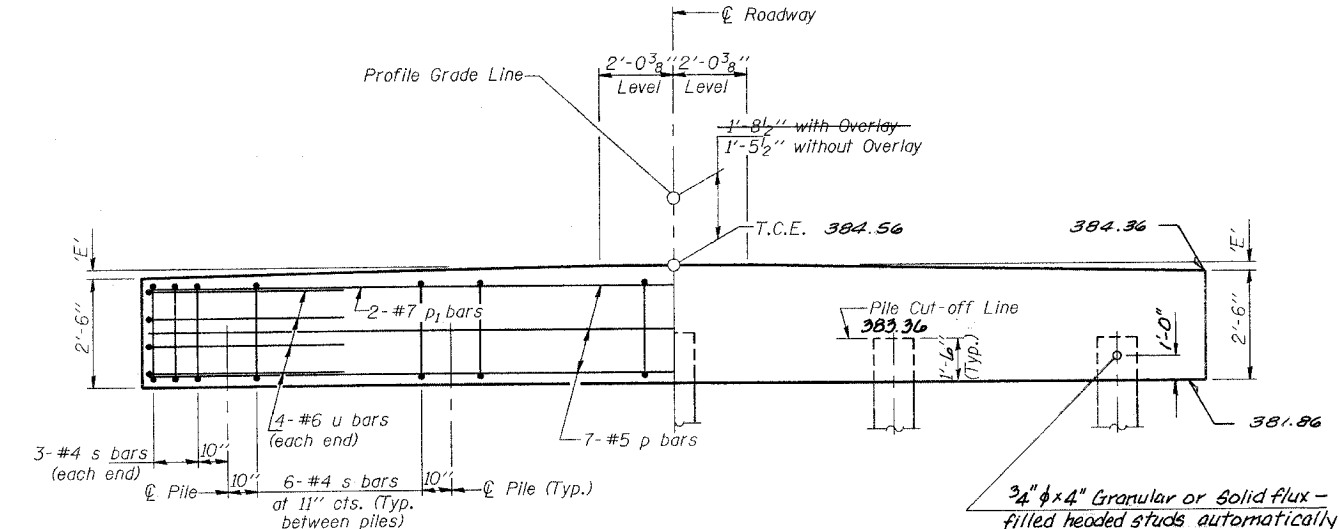


PLAN
 ('D' = Designated Skew Angle)



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 1/8"	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"

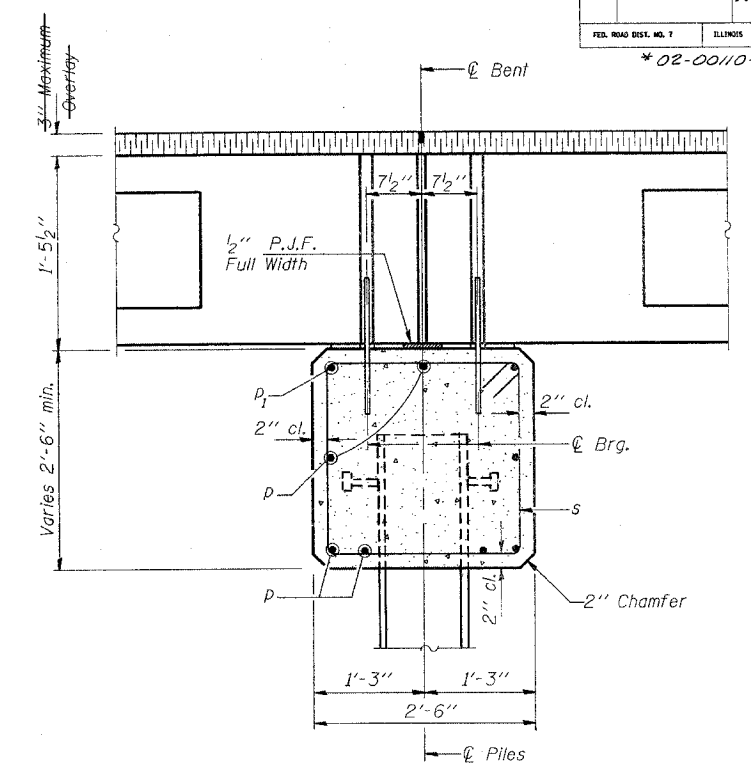
MAXIMUM PILE LOADS

SPAN	TONS
25'	29
30'	32
35'	35
40'	39

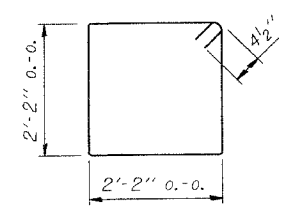
Longer of Either Span Supported by Pier.

DESIGN STRESSES

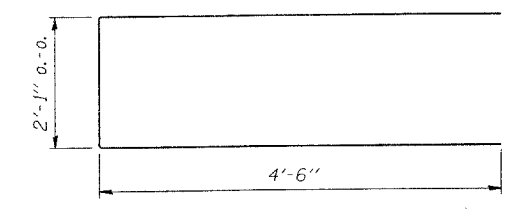
f'c = 3,500 psi
 fy = 60,000 psi



SECTION THRU PIER
 (At Right Angles)



Bar s



Bar u

BILL OF MATERIAL FOR ONE PIER

Bar	No.	Size	Length	Shape
p	7	#5	28'-10"	—
p1	2	#7	28'-10"	—
s	30	#4	9'-5"	□
u	8	#6	11'-1"	—
Concrete Structures			7.1	Cu. Yds.
Reinforcement Bars			650	Lbs.

NOTE

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

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

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