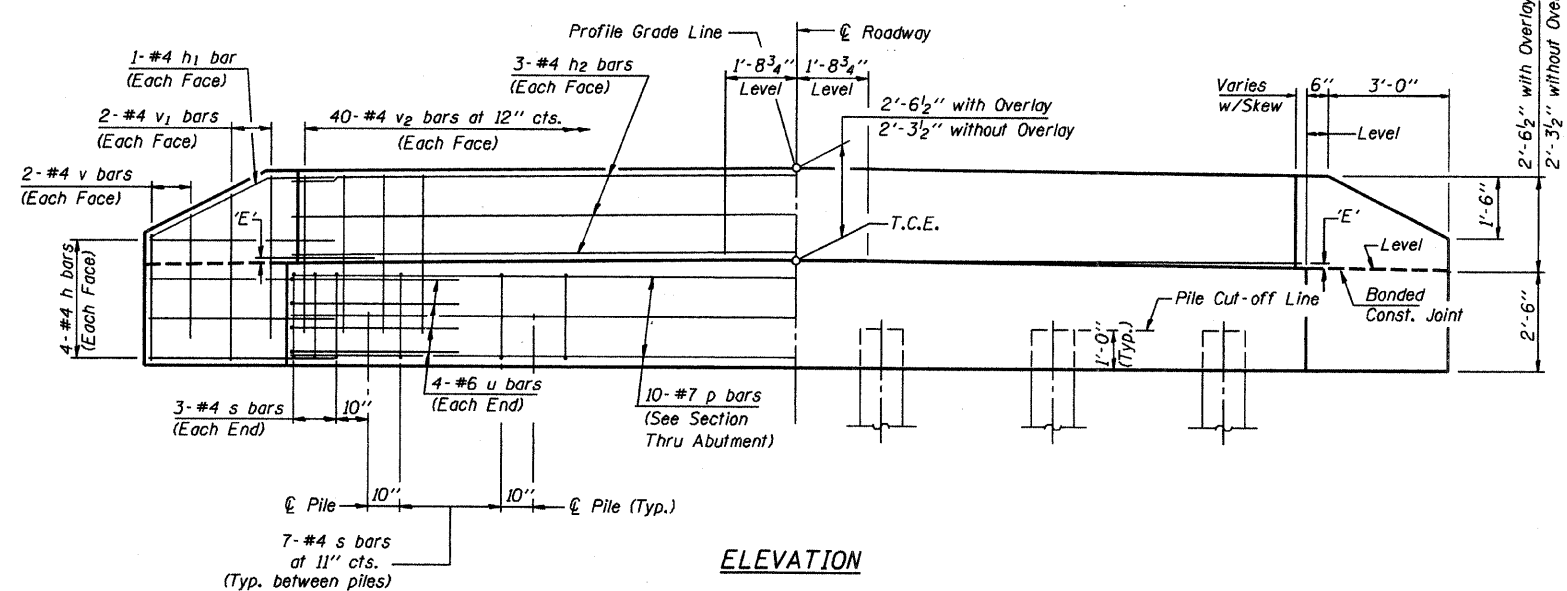


**PLAN**  
(D'=Designated Skew Angle)



**ELEVATION**

**DIMENSION 'E'**

GRADE	'D'=25°		'D'=30°	
	UPGRADE END	DOWNGRADE END	UPGRADE END	DOWNGRADE END
0%	3 1/8"	3 3/8"	3"	3"
Over 0% to 1%	2 5/8"	3 1/2"	2 3/8"	3 1/2"
Over 1% to 2%	1 3/4"	4 1/2"	1 3/8"	4 5/8"
Over 2% to 3%	3/4"	5 3/8"	1/4"	5 5/8"
Over 3% to 4%	0"	6 1/4"	—	—

**NOTES**

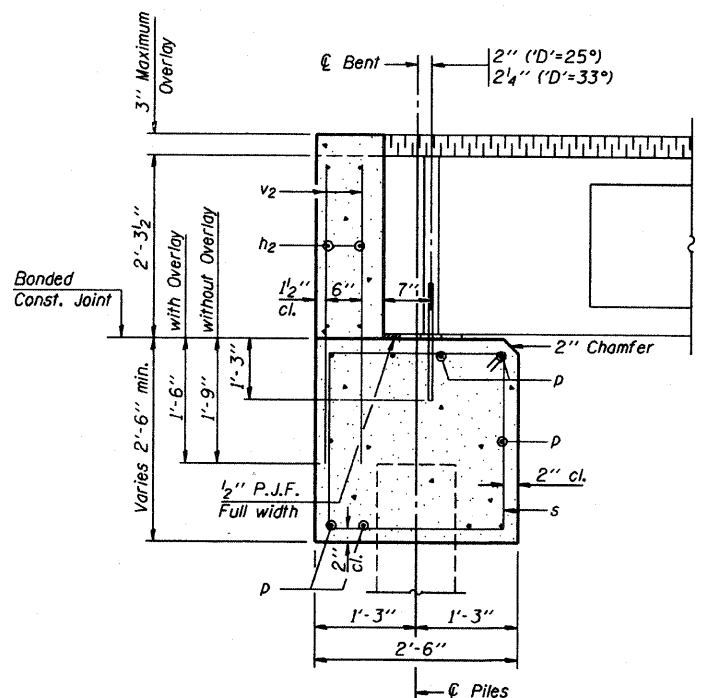
1. The Backwall and the portion of the Wingwalls above the bonded construction joint shall be cast against the in-place beam.
2. Reinforcement bars shall conform to the requirements of A.A.S.H.T.O. M-31 or M-322, Grade 60.
3. Space reinforcement in cap to miss anchor bolts.

**MAXIMUM PILE LOADS**

SPAN	TONS
40'	28
50'	32
60'	36

**DESIGN STRESSES**

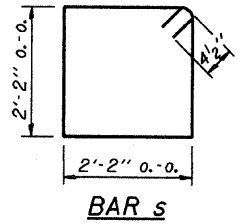
f'c = 3,500 psi  
fy = 60,000 psi



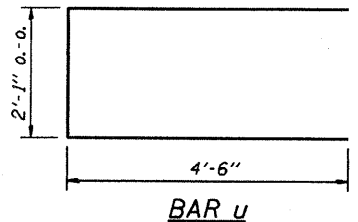
**SECTION THRU ABUTMENT**  
(At Right Angles)

**BILL OF MATERIAL FOR ONE ABUTMENT**

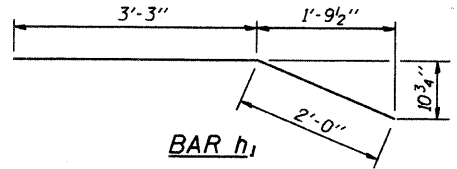
Bar	No.	Size	Length	Shape
h	16	#4	5'-0"	—
h1	4	#4	5'-3"	—
h2	6	#4	39'-9"	—
p	10	#7	39'-9"	—
s	41	#4	9'-5"	□
u	8	#6	11'-1"	□
v	8	#4	3'-2"	—
v1	8	#4	4'-2"	—
v2	80	#4	3'-11"	—
Concrete Structures			14.1 Cu. Yds.	
Reinforcement Bars			1680 Lb.	



**BAR s**



**BAR u**



**BAR h1**

Illinois Department of Transportation  
 PASSED APRIL 4, 2005  
 Thomas J. Ramagala  
 Engineer of Bridge Design  
 APPROVED APRIL 4, 2005  
 Ralph E. Anderson  
 Engineer of Bridges and Structures  
 ISSUED 4-4-2005

P.P.C. DECK BEAMS  
 PILE BENT ABUTMENT  
 33' RDWY. 27' BMS. 'D'=25° OR 30°  
 STANDARD CA-3327-30