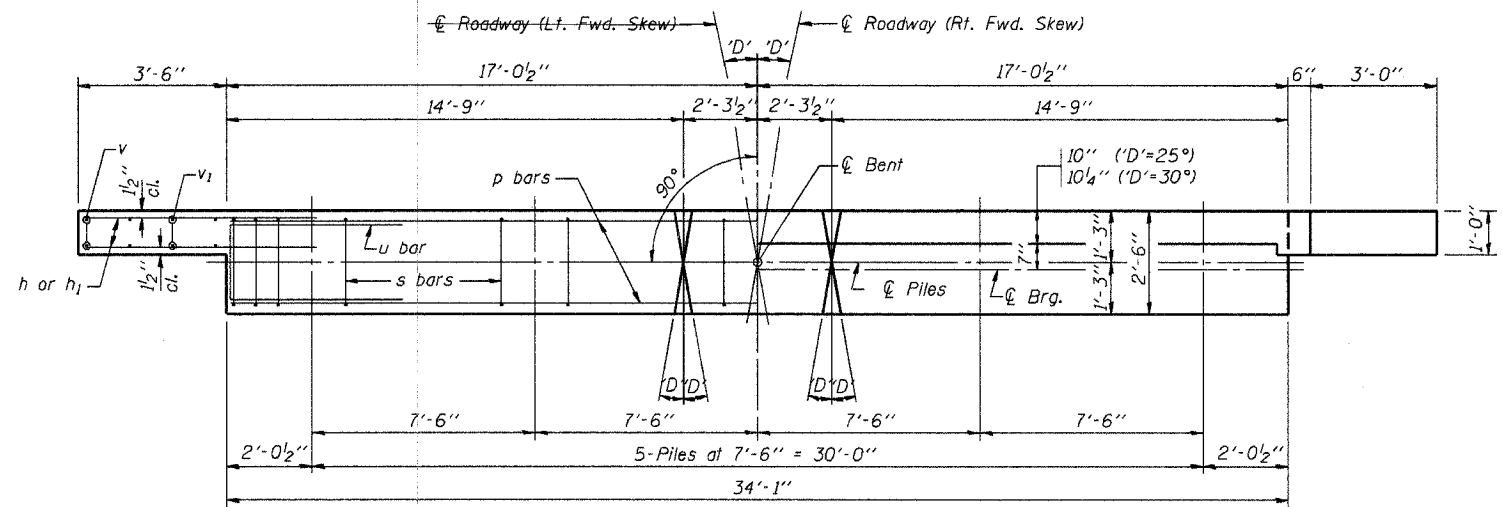
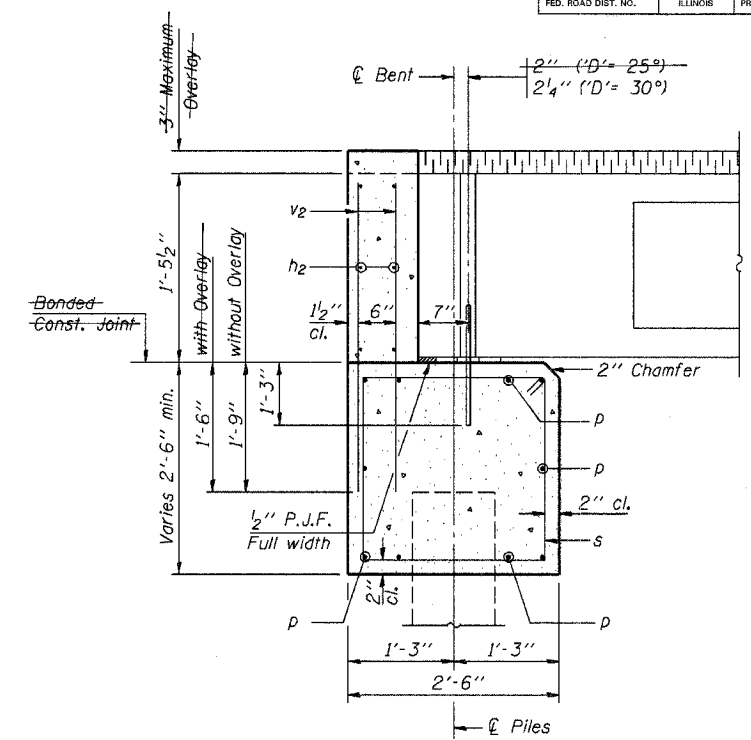


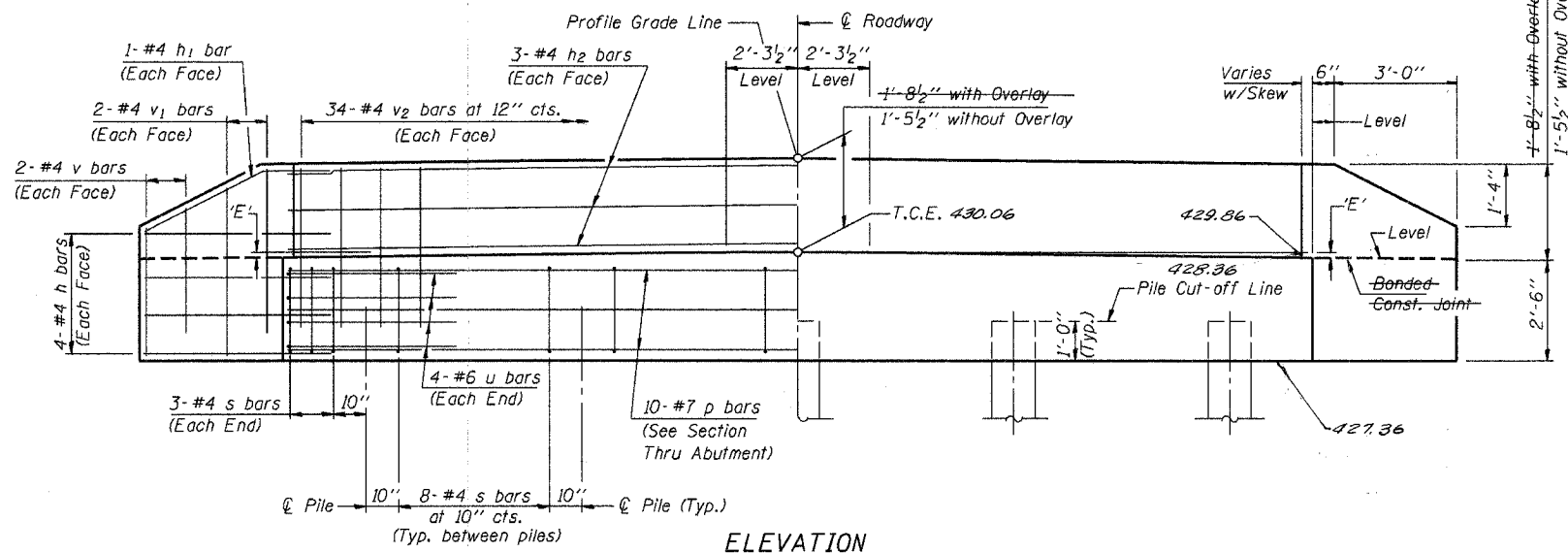
F.A.S. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET
05-05/22-00-BR	LAWRENCE	11	7	
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	PROJECT		



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



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



**ELEVATION**

**DIMENSION 'E'**

GRADE	'D'=25°		'D'=30°	
	UPGRADE END	DOWNGRADE END	UPGRADE END	DOWNGRADE END
0%	2 1/2"	2 1/2"	2 3/8"	2 3/8"
Over 0% to 1%	2 1/8"	2 1/8"	2"	2 7/8"
Over 1% to 2%	1 3/8"	3 5/8"	1"	3 3/4"
Over 2% to 3%	5/8"	4 3/8"	1/8"	4 5/8"
Over 3% to 4%	0"	5 1/8"		

**NOTES**

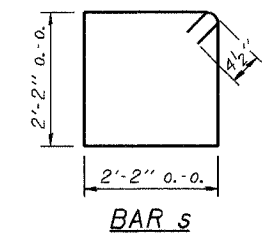
- The Backwall and the portion of the Wingwalls above the bonded construction joint shall be cast against the in-place beam.
- Reinforcement bars shall conform to the requirements of A.A.S.H.T.O. M-31 or M-322, Grade 60.
- Space reinforcement in cap to miss anchor bolts.

**MAXIMUM PILE LOADS**

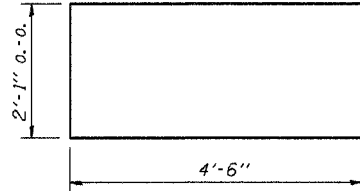
SPAN	TONS
25'	25
30'	25
35'	25
40'	27

**DESIGN STRESSES**

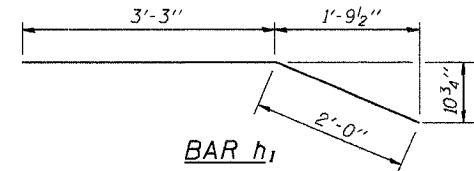
f'c = 3,500 psi  
fy = 60,000 psi



**BAR s**



**BAR u**



**BAR h1**

**BILL OF MATERIAL FOR ONE ABUTMENT**

Bar	No.	Size	Length	Shape
h	16	#4	5'-0"	—
h1	4	#4	5'-3"	—
h2	6	#4	33'-9"	—
p	10	#7	33'-9"	—
s	38	#4	9'-5"	□
u	8	#6	11'-1"	□
v	8	#4	2'-6"	—
v1	8	#4	3'-5"	—
v2	68	#4	3'-1"	—
Concrete Structures			11.1 Cu. Yds.	
Reinforcement Bars			1440 Lb.	

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

28' RDWY. 17" BMS. 'D'=25° OR 30°

STANDARD CA-2817-30

Illinois Department of Transportation

PASSED APRIL 4, 2005  
Thomas S. Nimga  
Engineer of Bridge Design

APPROVED APRIL 4, 2005  
Ralph E. Anderson  
Engineer of Bridges and Structures

1861-1-1 03/05/51