F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	•	MCLEAN	310	175 B
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

• (57-4IR, HBY, HBR, (57-4VBIDM
CONTRACT #70757

TOP REINFORCEMENT

Bar Size	Pavement Thickness	G APPROXIMATE SPACING 12-FOOT** WIDTH PAVEMENT	16-FOOT WIDTH PAVEMENT
#6	10" to 10 1/2"	22 Spcs. (23 bars) at 6 1/4"	31 Spcs. (32 bars) at 6"
#6	10 3/4" to 11 1/2"	24 Spcs. (25 bars) at 5 3/4"	34 Spcs. (35 bars) at 5 7/16"
#6	11 3/4" to 12 1/2"	27 Spcs. (28 bars) at 5 1/8"	37 Spcs. (38 bars) at 5"
#7	10" to 10 1/2"	16 Spcs. (17 bars) at 8 5/8"	23 Spcs. (24 bars) at 8"
#7	10 3/4" to 11 1/2"	18 Spcs. (19 bars) at 7 5/8"	25 Spcs. (25 bars) at 7 3/8"
#7	11 3/4" to 12 1/2"	19 Spcs. (20 bars) at 7 1/4"	27 Spcs. (28 bars) at 6 7/8"
#7	12 3/4" to 13 1/2"	21 Spcs. (22 bars) at 6 1/2"	29 Spcs. (30 bars) at 6 3/8"
#7	13 3/4" to 14 1/2"	23 Spcs. (24 bars) at 6"	32 Spcs. (33 bars) at 5 3/4"
#7	14 3/4" to 15 1/2"	24 Spcs. (25 bars) at 5 3/4"	34 Spcs. (35 bars) at 5 7/16"
#7	15 3/4" to 16 1/2"	26 Spcs. (27 bars) at 5 1/4"	36 Spcs. (37 bars) at 5 1/8"

** Approximate spacing for each 12' lane of the 24' or 36' wide approach pavement.

BOTTOM REINFORCEMENT

16-FOOT WIDTH PAVEMENT

Skew Angle	#5 A_3 bars No	Length
0°	40	15'-6"
5°	40	15'-7"
10°	40	15'-9"
15°	40	16'-1"
20°	40	16'-6"
25°	40	17'-1"
30°	40	17'-11"
35°	40	18'-11"
40°	40	20'-3"
45°	40	21'-11"
50°	40	24'-1"
55°	40	27'-0"
60°	40	31'-0"
24-#9 A_1 bars		27'-0"
11-#9 A_1 bars		20'-3"
24-#5 A_2 bars		10'-0"

24-FOOT WIDTH PAVEMENT

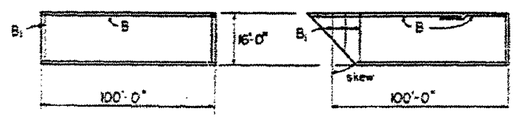
Skew Angle	#5 A_3 bars No	Length
0°	40	23'-6"
5°	40	23'-7"
10°	40	23'-10"
15°	40	24'-4"
20°	40	25'-0"
25°	40	25'-11"
30°	40	27'-2"
35°	40	28'-8"
40°	40	30'-8"
45°	40	33'-3"
50°	80	19'-1"
55°	80	21'-4"
60°	80	24'-4"
32-#9 A_1 bars		27'-0"
19-#9 A_1 bars		20'-3"
32-#5 A_2 bars		10'-0"

36-FOOT WIDTH PAVEMENT

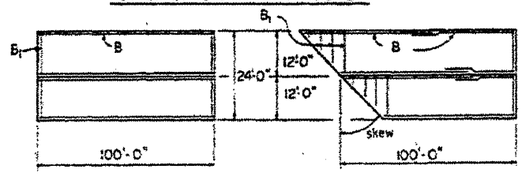
Skew Angle	#5 A_3 bars No	Length
0°	40	35'-6"
5°	40	35'-8"
10°	40	36'-0"
15°	80	19'-4"
20°	80	19'-10"
25°	80	20'-7"
30°	80	21'-6"
35°	80	22'-8"
40°	80	24'-2"
45°	80	26'-2"
50°	80	28'-8"
55°	80	32'-0"
60°	80	36'-7"
44-#9 A_1 bars		27'-0"
31-#9 A_1 bars		20'-3"
44-#5 A_2 bars		10'-0"

Note: Tilt hook of #9 bars for min. 3 1/2 cl
Use 1'-8" min. lap for #5 bars.

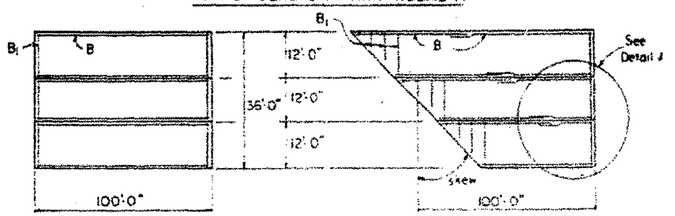
TOP OF SLAB BAR ARRANGEMENT



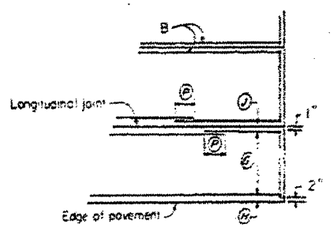
TOP OF SLAB BAR ARRANGEMENT



TOP OF SLAB BAR ARRANGEMENT



B bars : #6 or #7 longitudinal bars
B_1 bars : #4 transverse bars



DETAIL A

	#6	#7
Gr*	3 1/2"	3 1/2"
D	3"	3"
E (Lap)	18 3/4"	21 7/8"

* The Gr dimension and the distance from the end of the transverse bar to the edge of pavement may be increased by 1" for slipform paving.

Illinois Department of Transportation
APPROVED Sept. 26, 1989
James T. Hayburn
Engineer of Bridges & Structures
APPROVED Sept. 15, 1989
Director

LAYOUT	JJH	04/09/02
DRAWN	JJH	03/05/04
RETRACED	DLM	03/19/04

10/19/2009
#7123

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 55
SECTION (57-4IR, HBY, HBR, (57-4VBIDM
McLEAN COUNTY

BRIDGE APPROACH DETAILS
From STD 2353 For US 51

REVISIONS NAME	DATE

HANSON

JOB NO. 9452063
DATE 10/19/2009

⚠1 SHEET ADDED 10/22/09