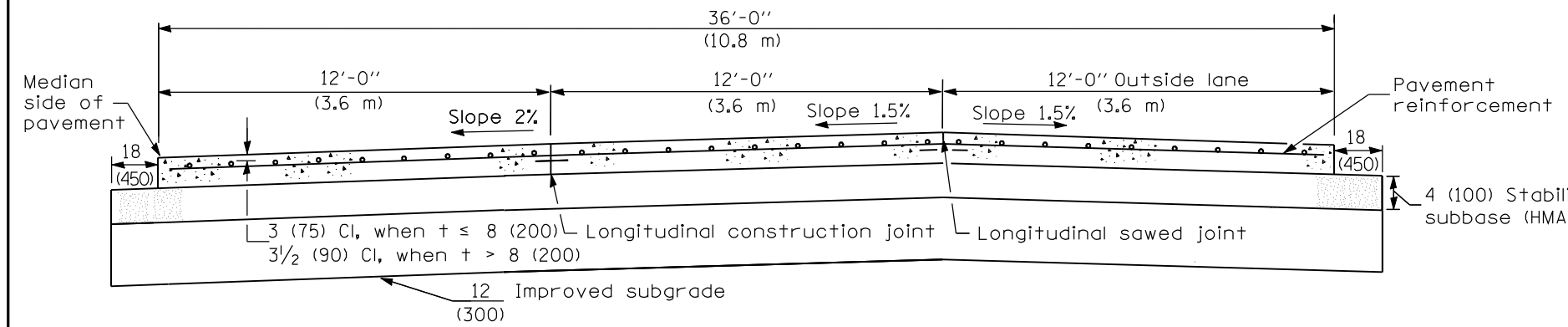
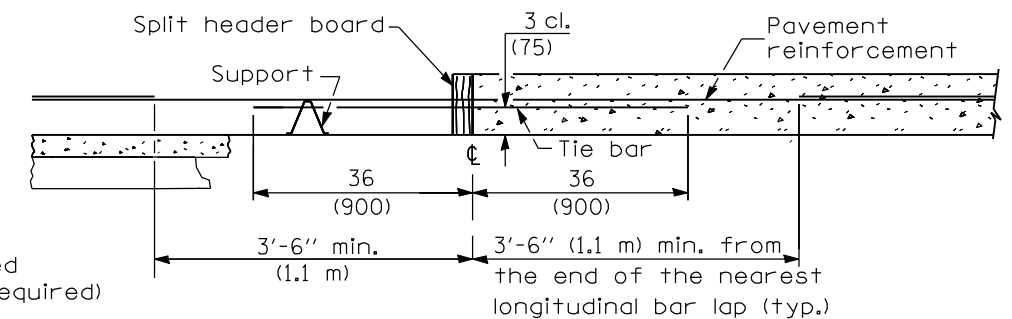


PLAN

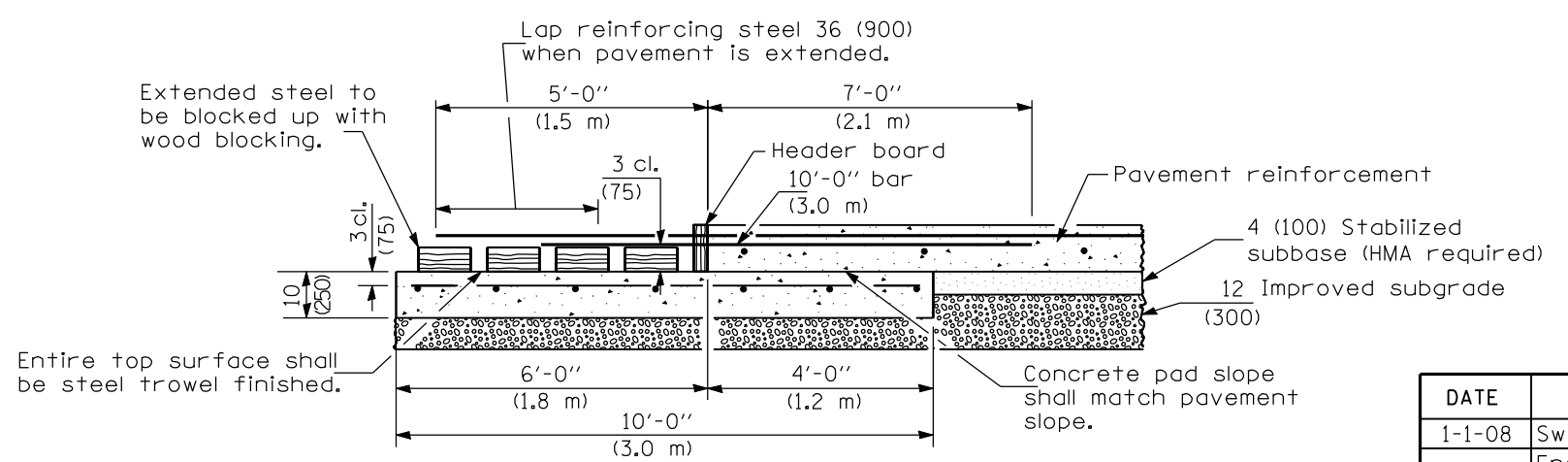


SECTION A-A

(TYPICAL 3-LANE, 1-WAY WITH SHOULDERS)



TRANSVERSE CONSTRUCTION JOINT



TRANSVERSE TERMINAL JOINT

SECTION B-B

GENERAL NOTES

Sealant components for the wide flange beam terminal joint shall be as follows: The sealant shall be Dow Corning 888 Silicone Highway Joint Sealant. The tape shall be Polyethylene Tape No. 40. The primer, used on the metal only, shall be Dow Corning 1200. At the Contractor's option the joint may be sealed as shown in the optional groove detail.

See Standard 421001 for details of pavement reinforcement.

See Standards 420001 and 420401 for joint details not shown.

All dimensions shall be in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation

PASSED January 1, 2008

ENGINEER OF POLICY AND PROCEDURES

APPROVED January 1, 2008

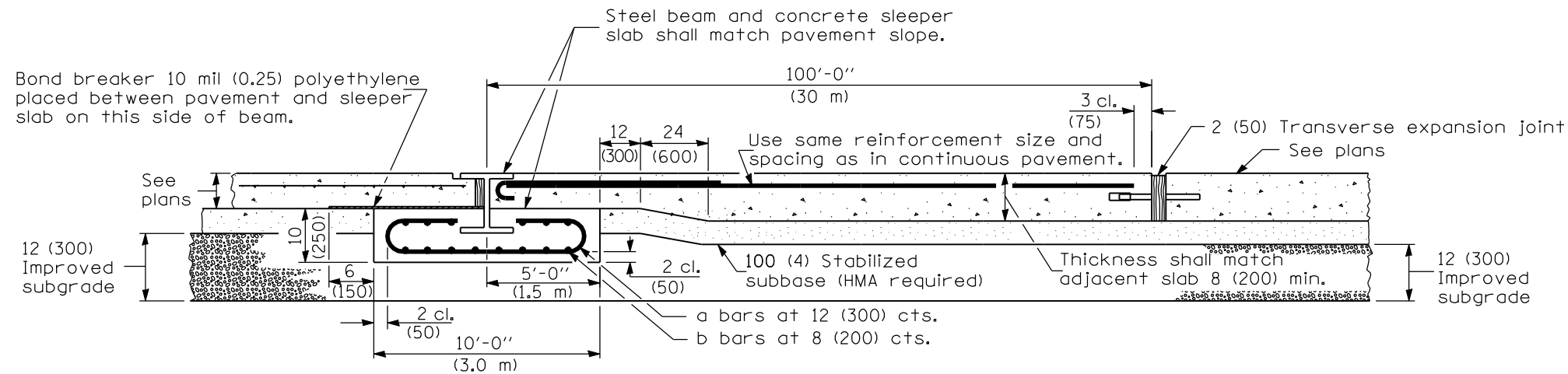
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

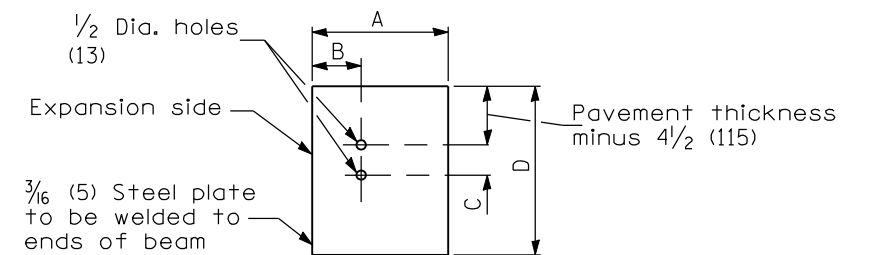
DATE	REVISIONS
1-1-08	Switched units to English (metric).
1-1-07	Switched to Hot-Mix Asphalt (HMA) terminology.

36' (10.8 m)
CRC PAVEMENT
 (WITH WIDE FLANGE BEAM TERMINAL JOINT)
 (Sheet 1 of 2)

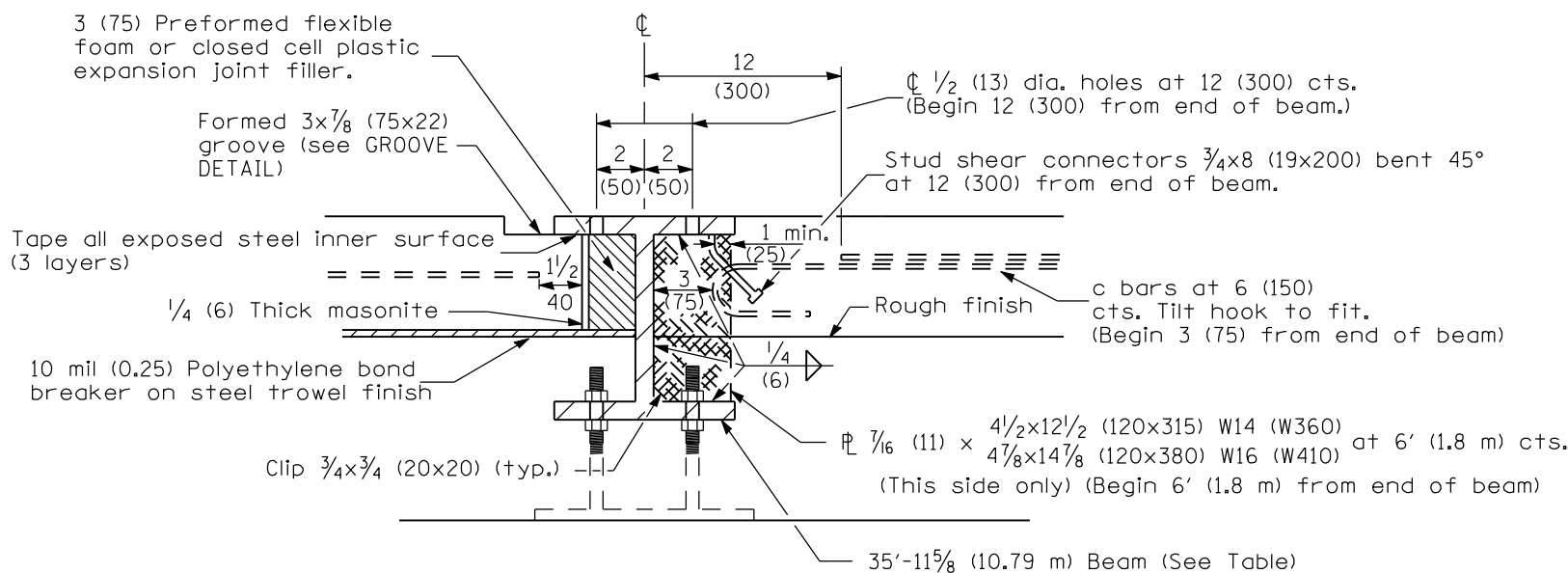
STANDARD 421106-07



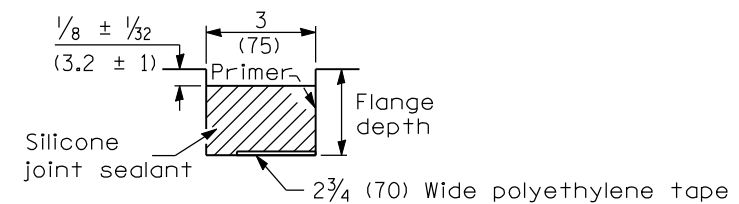
WIDE FLANGE BEAM TERMINAL JOINT



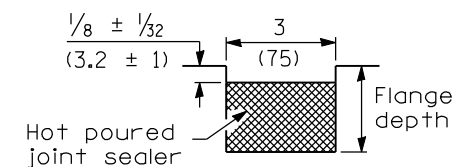
END PLATE



DETAIL AT BEAM



GROOVE DETAIL



GROOVE DETAIL (OPTIONAL)

PAVEMENT THICKNESS	< 10 (250)	≥ 10 (250)
BEAM SIZE	W14x82 (W360x122)	W16x100 (W410x149)
A	10 1/8 (255)	10 3/8 (265)
B	4 5/16 (110)	4 7/16 (115)
C	3 (75)	4 (100)
D	14 1/4 (360)	17 (430)

MATERIALS REQUIRED FOR ONE TRANSVERSE TERMINAL JOINT COMPLETE

Concrete, cu. yds. (m ³)	11.1 (8.1)
Reinforcement bars, lbs. (kg)	523 (235)
Pavement reinforcement, sq. yds. (m ²)	20 (16.2)

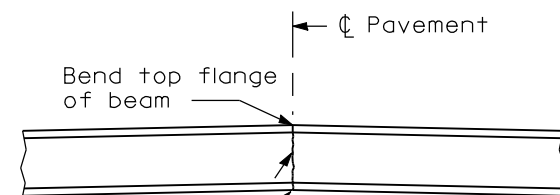
MATERIALS REQUIRED FOR ONE WIDE FLANGE BEAM TERMINAL JOINT COMPLETE

Bar	No.	Size	Length	Shape
a	36	No. 4 (No. 13)	19'-0" (5.8 m)	
b	29	No. 5 (No. 16)	35'-8" (10.7 m)	
c	72	No. 6 (No. 19)	8'-6" (2.6 m)	

Concrete, cu. yds. (m ³)	11.1 (8.1)
Reinforcement Bars, lbs. (kg)	2455 (1115)
Structural Steel, lbs. (kg)	W14 (W360) 3040 (1360) W16 (W410) 3710 (1655)

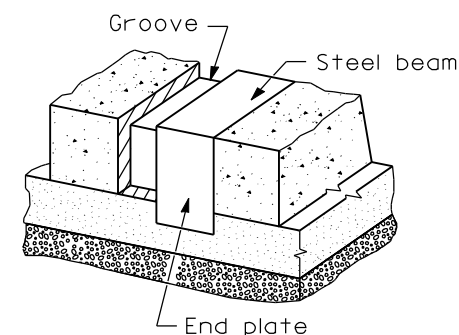
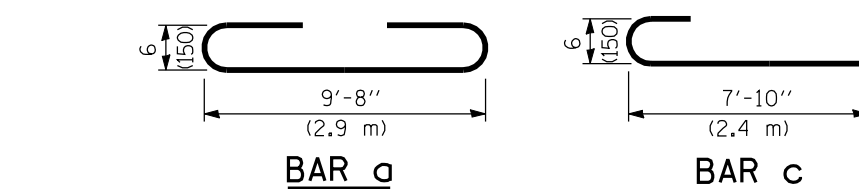
*Weight includes beam, end plates, stiffener plates and studs.

Pavement, sq. yds. (m ²)	400 (324)
Pavement Reinforcement, sq. yds. (m ²)	400 (324)
4 (100) Stabilized Subbase, sq. yds. (m ²)	411.6 (333.5)
Improved Subgrade, sq. yds. (m ²)	433.3 (351)

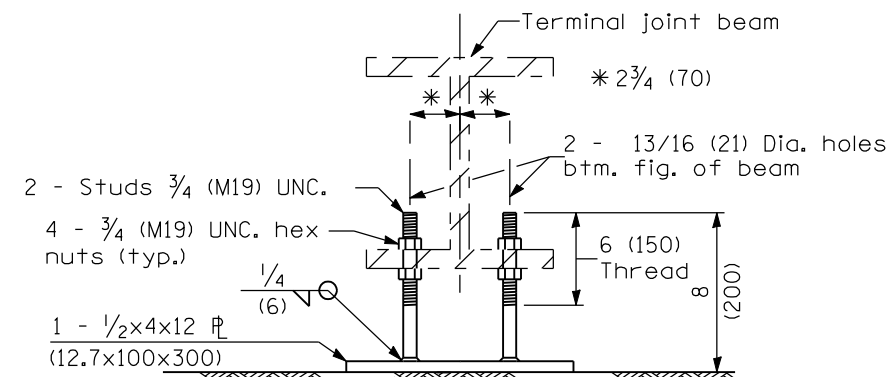


DETAIL OF CUTTING AND WELDING BEAM

Cut and remove sufficient material from web and bottom flange of beam to attain the required pavement cross slope. Butt weld and grind smooth the web and flange seam.



VIEW OF GROOVE AT EDGE OF PAVEMENT



OPTIONAL ADJUSTABLE CHAIR