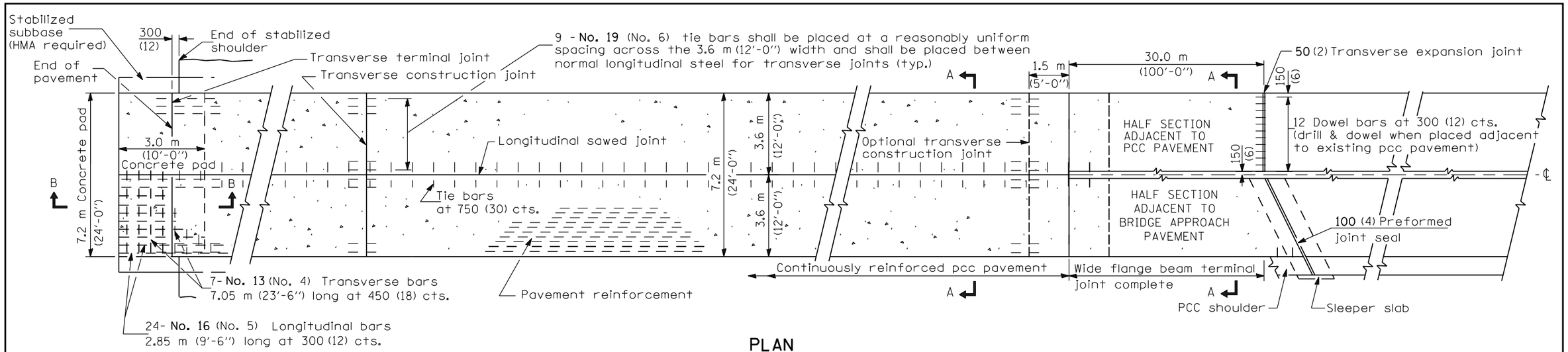
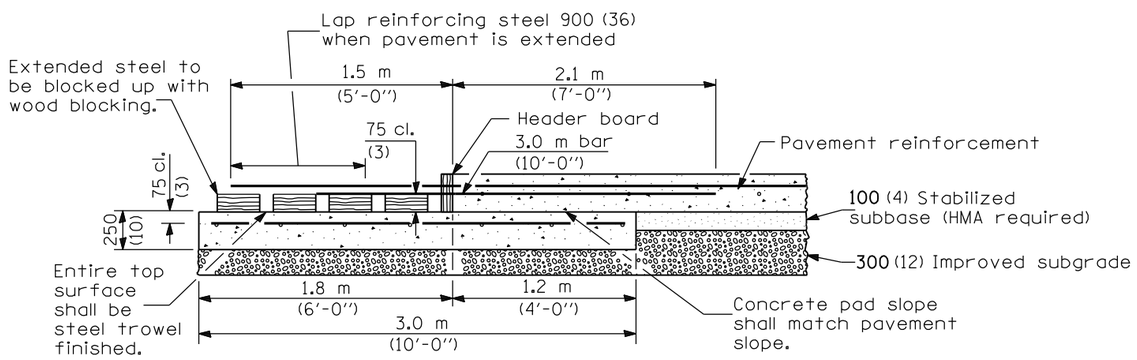
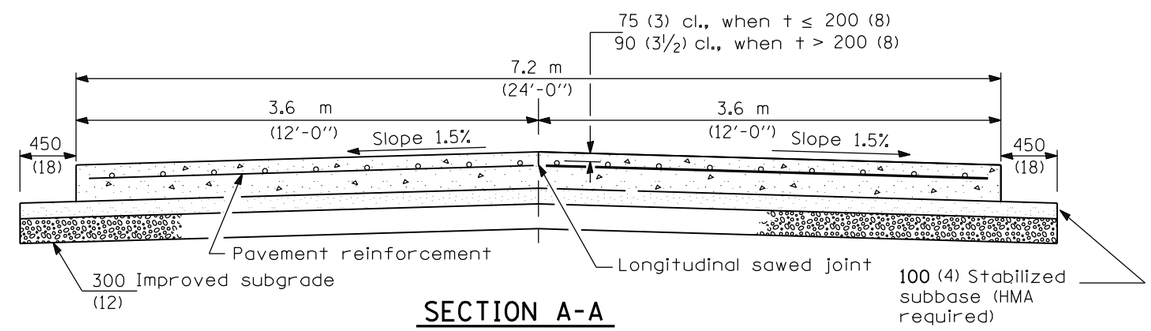


PLAN



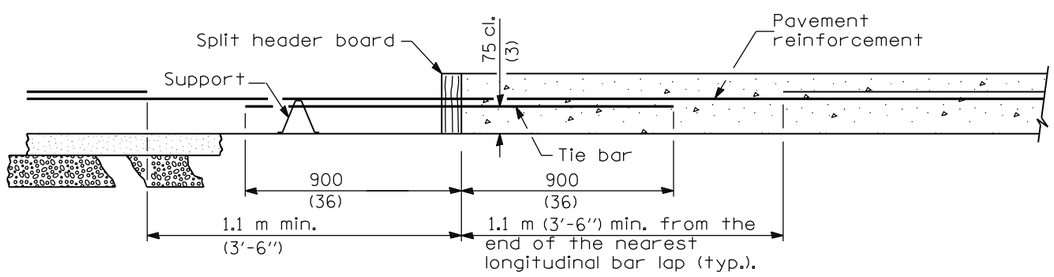
TRANSVERSE TERMINAL JOINT

SECTION B-B



SECTION A-A

(TYPICAL 2-LANE WITH SHOULDERS)



TRANSVERSE CONSTRUCTION JOINT

GENERAL NOTES

Sealant components for the wide flange beam terminal joint shall be as follows or approved equals. Sealant shall be Dow Corning 888 Silicone Highway Joint Sealant. Tape shall be Polyethylene Tape No. 40. 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 Standards 420001 and 420401 for joint details not shown.

See Standard 421001 for details of pavement reinforcement.

All dimensions are in millimeters (inches) unless otherwise shown.

Illinois Department of Transportation

PASSED January 1. 2007
ENGINEER OF POLICY AND PROCEDURES
APPROVED January 1. 2007
ENGINEER OF DESIGN AND ENVIRONMENT

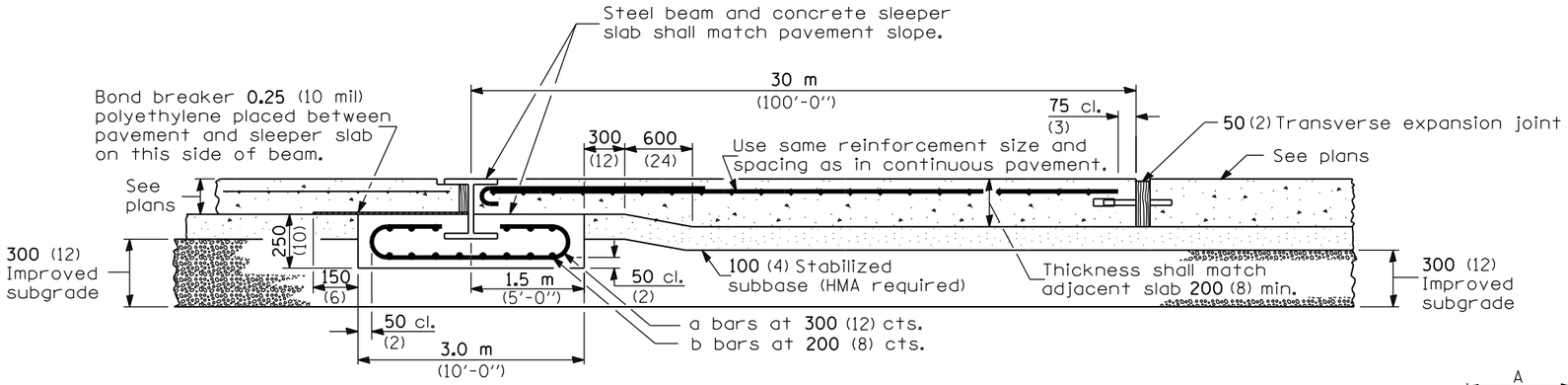
ISSUED 1-1-97

DATE	REVISIONS
1-1-07	Switched to Hot-Mix
	Asphalt (HMA)
	terminology.
1-1-04	Rev. width of trans.
	expansion joint.

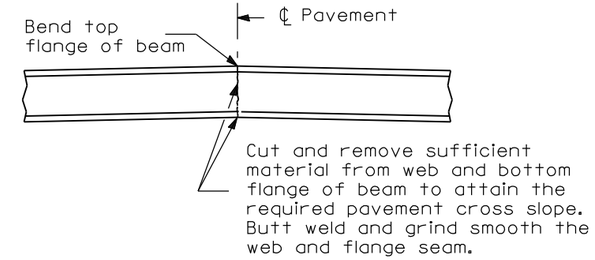
7.2 m (24') CRC PAVEMENT

(WITH WIDE FLANGE BEAM TERMINAL JOINT)
(Sheet 1 of 2)

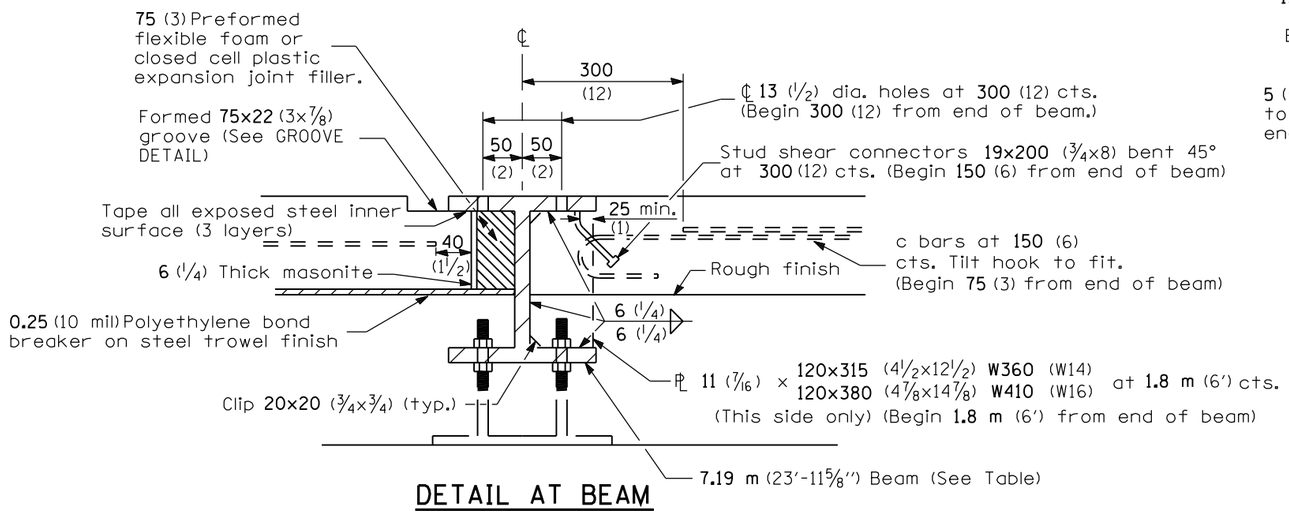
STANDARD 421101-06



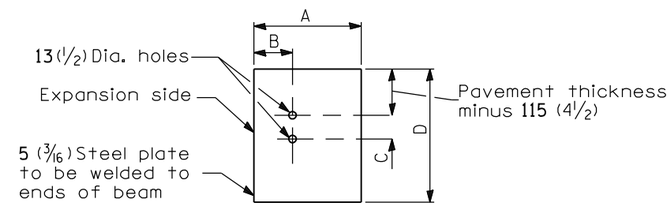
WIDE FLANGE BEAM TERMINAL JOINT



DETAIL OF CUTTING AND WELDING BEAM

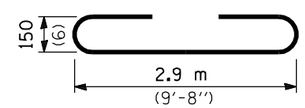


DETAIL AT BEAM

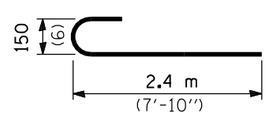


END PLATE

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



BAR a



BAR c

MATERIALS REQUIRED FOR ONE TRANSVERSE TERMINAL JOINT COMPLETE

Concrete, m^3 (cu. yds.)	5.4 (7.4)
Reinforcement bars, kg (lbs.)	160 (348)
Pavement reinforcement, m^2 (sq. yds.)	10.8 (13.3)

MATERIALS REQUIRED FOR ONE WIDE FLANGE BEAM TERMINAL JOINT COMPLETE

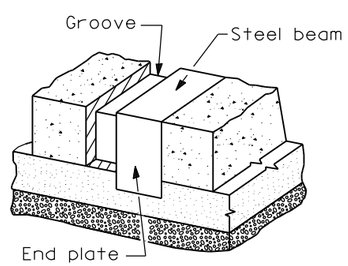
Bar	No.	Size	Length	Shape
a	24	No. 13 (No. 4)	5.8 m (19'-0")	
b	29	No. 16 (No. 5)	7.1 m (23'-8")	
c	48	No. 19 (No. 6)	2.6 m (8'-6")	

Concrete, m^3 (cu. yds.)		5.4 (7.4)
Reinforcement Bars, kg (lbs.)		740 (1635)
Structural Steel, kg (lbs.)	W360 (W14)	906• (2025•)
	W410 (W16)	1104• (2466•)

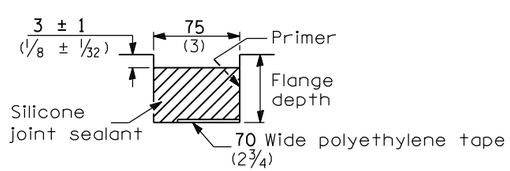
•Weight includes beam, end plates, stiffener plates and studs.

Pavement, m^2 (sq. yds.)	216 (266.7)
Pavement Reinforcement, m^2 (sq. yds.)	216 (266.7)
100 (4) Stabilized Subbase, m^2 (sq. yds.)	230.8 (285)
Improved Subgrade, m^2 (sq. yds.)	243 (300)

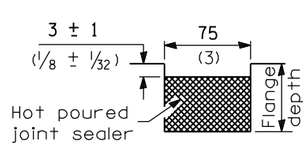
All dimensions are in millimeters (inches) unless otherwise shown.



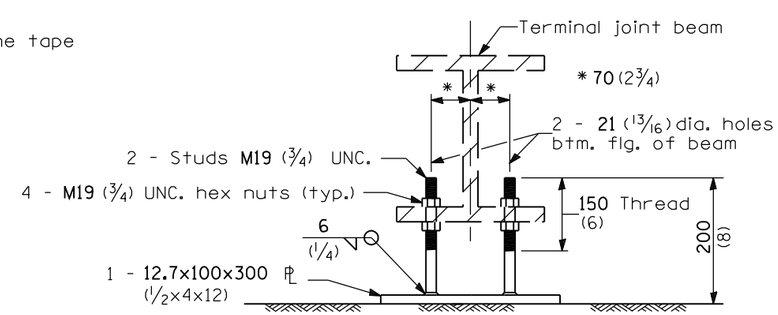
VIEW OF GROOVE AT EDGE OF PAVEMENT



GROOVE DETAIL



GROOVE DETAIL (OPTIONAL)



OPTIONAL ADJUSTABLE CHAIR

Illinois Department of Transportation

PASSED January 1, 2007
ENGINEER OF POLICY AND PROCEDURES
APPROVED January 1, 2007
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

7.2 m (24') CRC PAVEMENT

(WITH WIDE FLANGE BEAM TERMINAL JOINT)
(Sheet 2 of 2)

STANDARD 421101-06