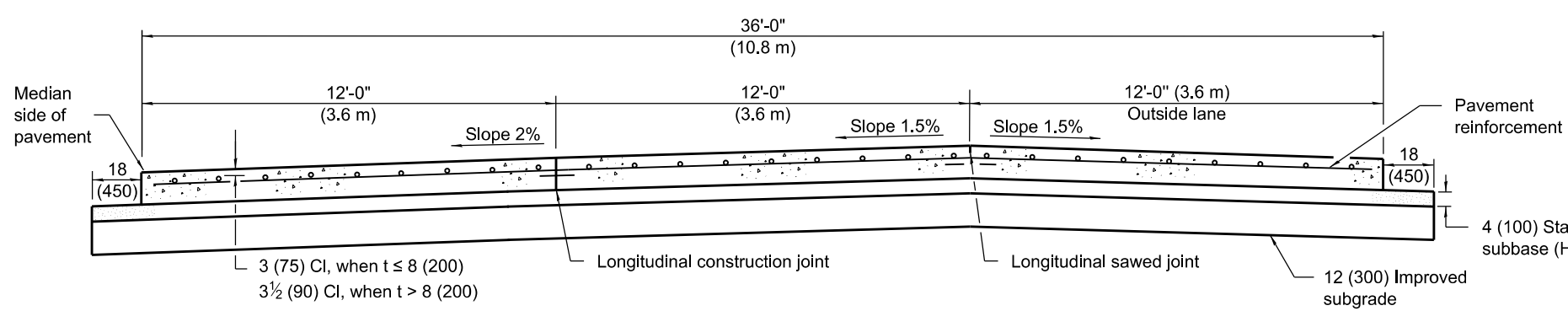
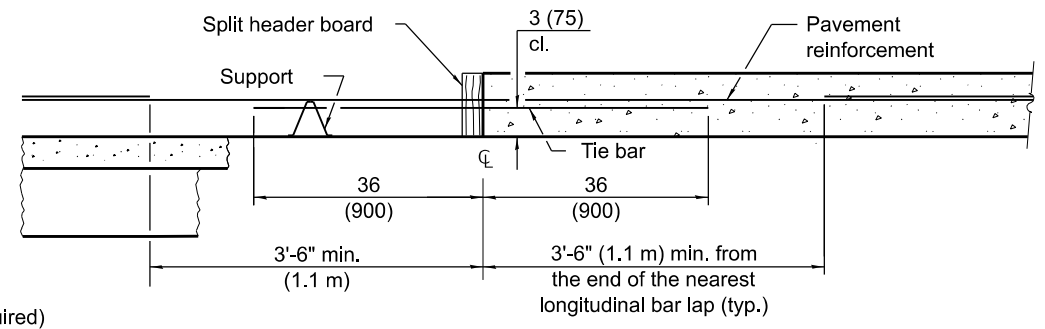


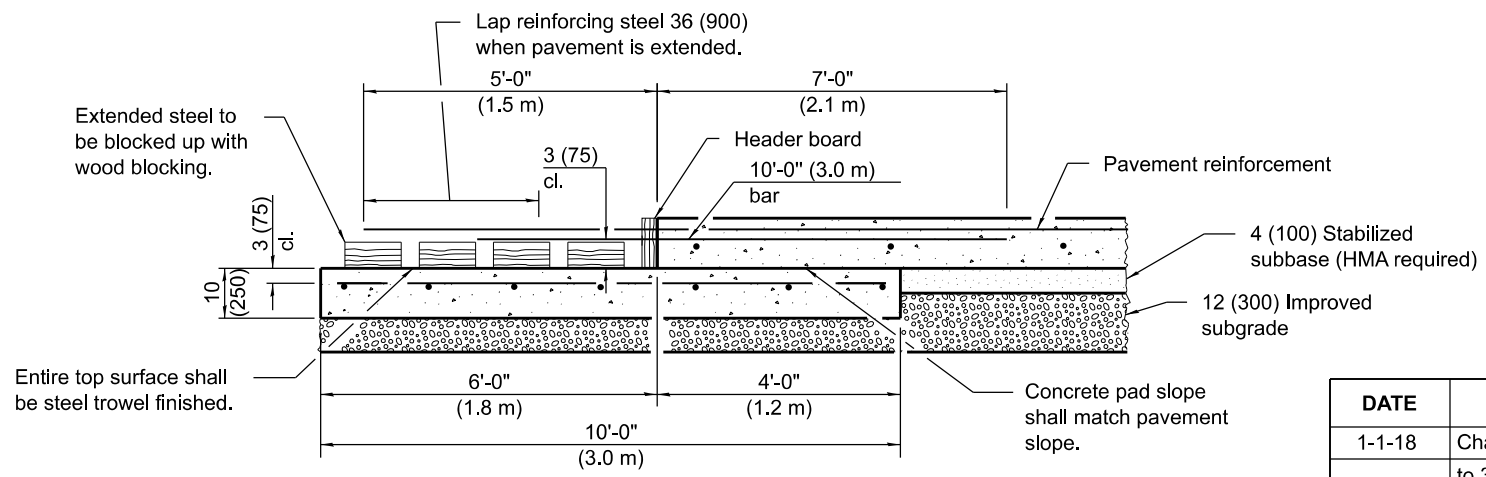
PLAN



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.

DATE	REVISIONS
1-1-18	Changed tie bar spacing to 36 (900) cts.
1-1-14	Added exp. jnts. in shlds. & omitted bars, cnst. jnt. over wide flange beam slpr. slab.

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

**STANDARD 421106-10**

Illinois Department of Transportation

APPROVED January 1, 2018

*Michael Brand*

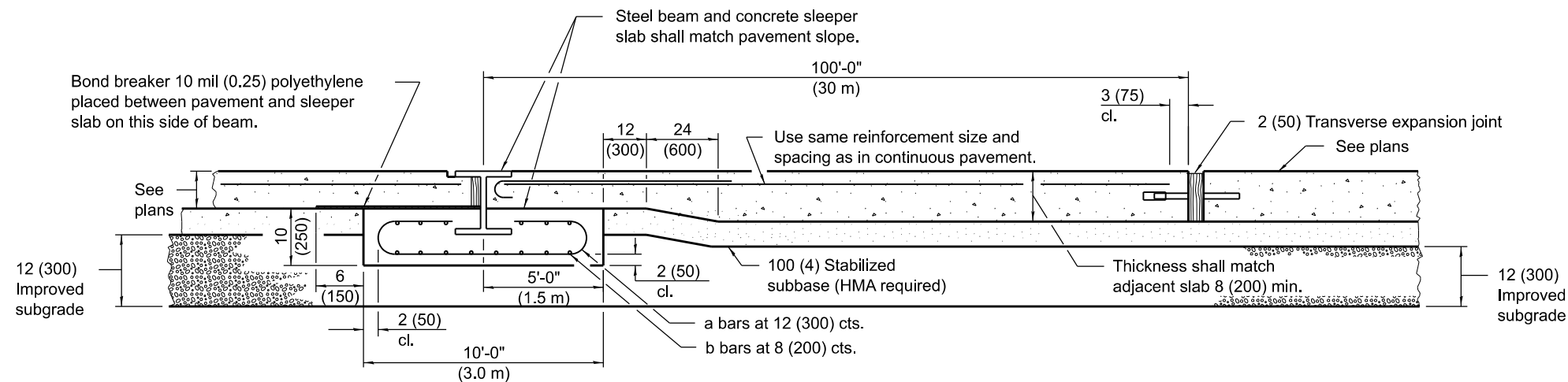
ENGINEER OF POLICY AND PROCEDURES

APPROVED January 1, 2018

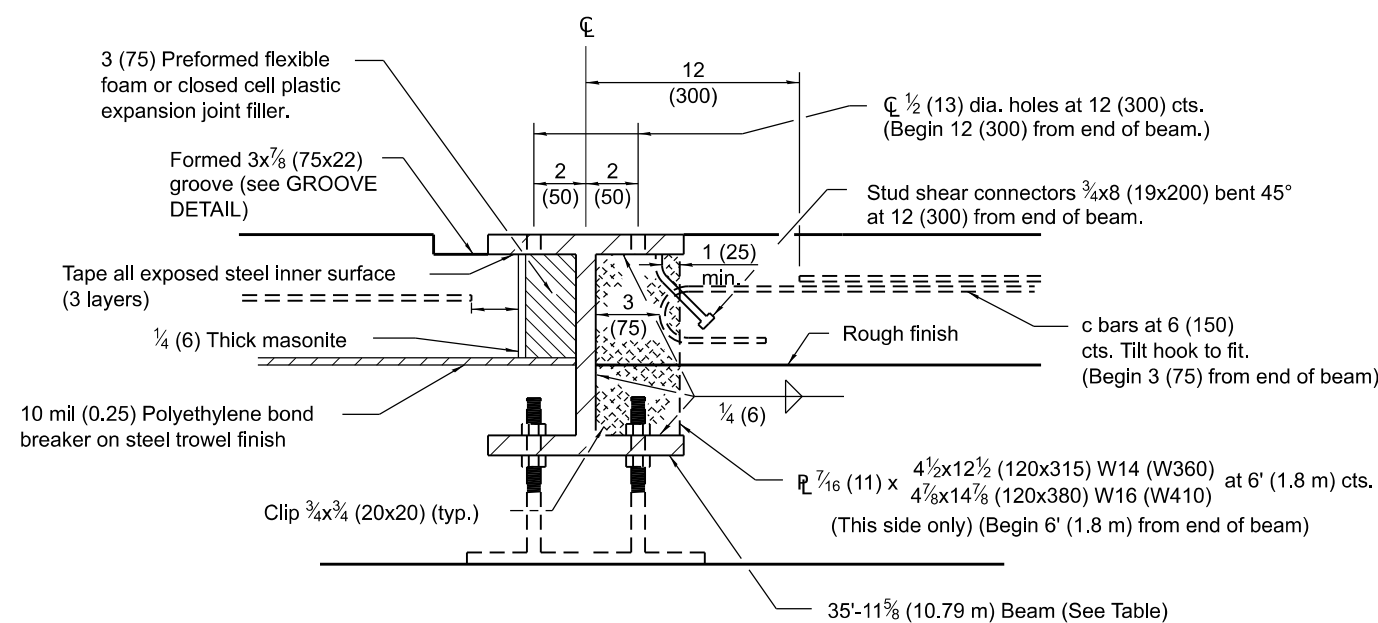
*Matthew M. Adams*

ENGINEER OF DESIGN AND ENVIRONMENT

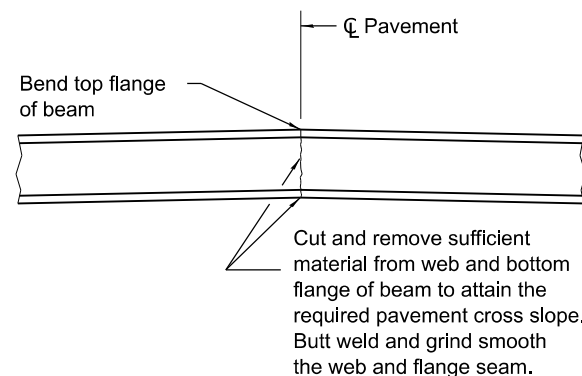
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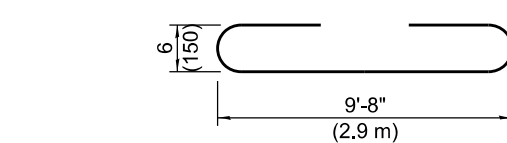
### WIDE FLANGE BEAM TERMINAL JOINT



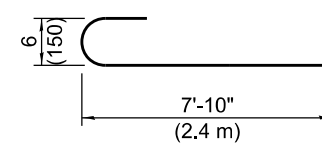
### DETAIL AT BEAM



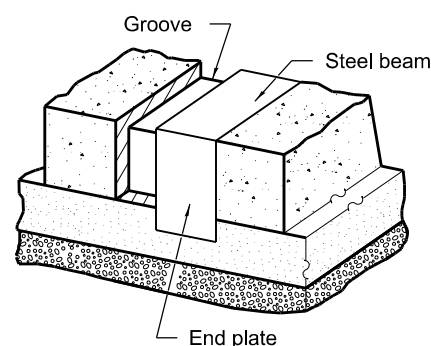
### DETAIL OF CUTTING AND WELDING BEAM



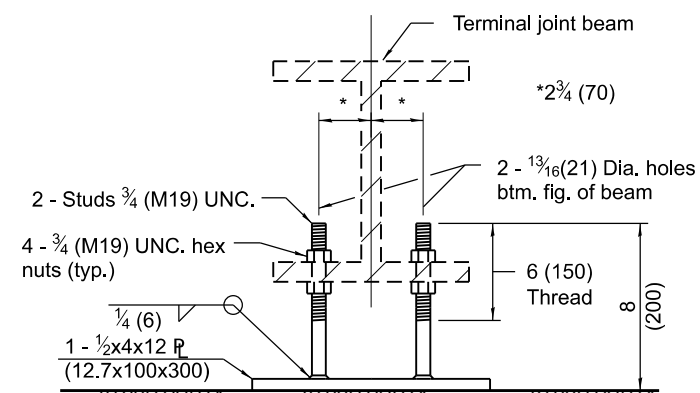
### BAR a



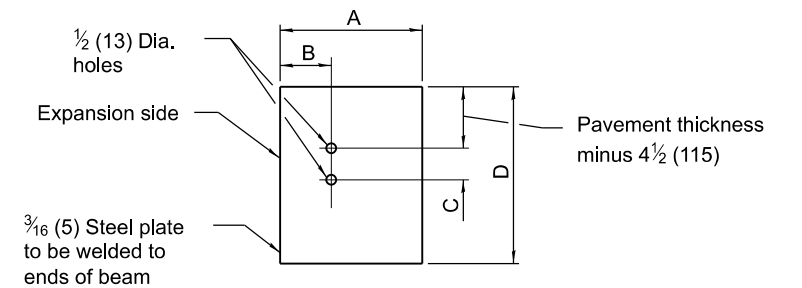
### BAR c



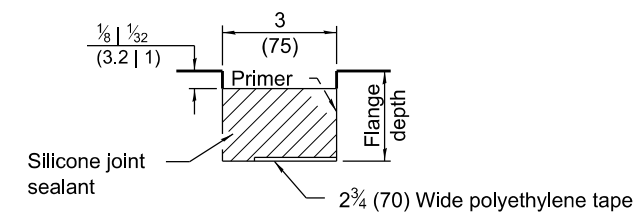
### VIEW OF GROOVE AT EDGE OF PAVEMENT



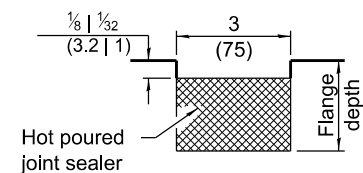
### OPTIONAL ADJUSTABLE CHAIR



### END PLATE



### GROOVE DETAIL



### GROOVE DETAIL (OPTIONAL)

PAVEMENT THICKNESS	<10 (250)	$\geq 10$ (250)
BEAM SIZE	W14X82 (W360X122)	w16x100 (W410x149)
A	10 $\frac{1}{8}$ (255)	10 $\frac{3}{8}$ (265)
B	4 $\frac{5}{16}$ (110)	4 $\frac{7}{16}$ (115)
C	3 (75)	4 (100)
D	14 $\frac{1}{4}$ (360)	17 (430)

### MATERIALS REQUIRED FOR ONE TRANSVERSE TERMINAL JOINT COMPLETE

Concrete, cu. yds. (m³)	11.1 (8.1)
Reinforcement bars, lbs. (kg)	523 (235)
Pavement reinforcement, sq. yds. (m²)	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. (m³)	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. (m²)	400 (324)
Pavement Reinforcement, sq. yds. (m²)	400 (324)
4 (100) Stabilized Subbase, sq. yds. (m²)	411.6 (333.5)
Improved Subgrade, sq. yds. (m²)	433.3 (351)

## 36' (10.8 m) CRC PAVEMENT (WITH WIDE FLANGE BEAM TERMINAL JOINT)

(Sheet 2 of 2)

STANDARD 421106-10