ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 2
F.A.S. 1769	111B-2	MONTGOMERY	145	65	3 SHEETS
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-		

Contract #72A63
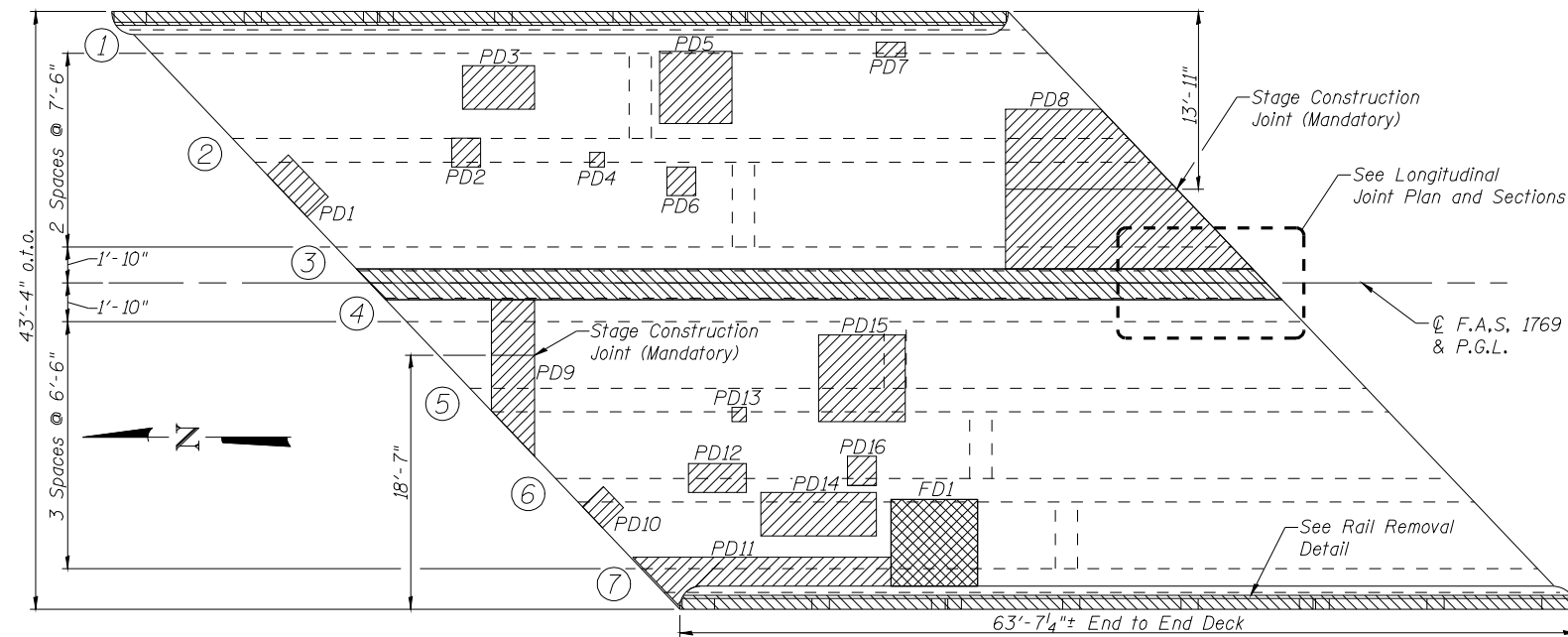
DECK PATCHING AND REMOVAL PLAN

- Stage Construction Joint (Mandatory)
- See Longitudinal Joint Plan and Sections
- ℄ F.A.S. 1769 & P.G.L.
- Stage Construction Joint (Mandatory)
- See Rail Removal Detail

43'-4" o.t.o.
2 Spaces @ 7'-6"
3 Spaces @ 6'-6"
1'-10"
1'-10"
13'-11"
18'-7"
63'-7¼"± End to End Deck

PD1 through PD16, FD1
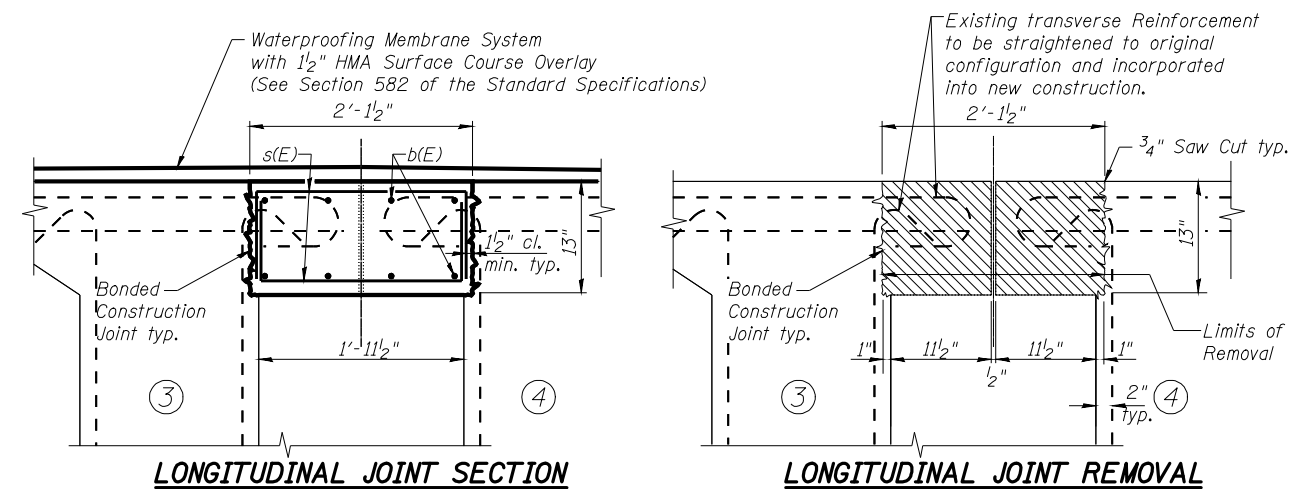
LONGITUDINAL JOINT SECTION

- Waterproofing Membrane System with 1½" HMA Surface Course Overlay (See Section 582 of the Standard Specifications)
- 2'-1½"
- s(E)
- b(E)
- Bonded Construction Joint typ.
- 1½" Cl. min. typ.
- 13"
- 1'-11½"

LONGITUDINAL JOINT REMOVAL

- Existing transverse Reinforcement to be straightened to original configuration and incorporated into new construction.
- 2'-1½"
- ¾" Saw Cut typ.
- 13"
- Bonded Construction Joint typ.
- Limits of Removal
- 1"   11½"   11½"   1"
- 2"
- 2" typ.

MINIMUM BAR LAP

#5 Bar = 1'-8"

Deck Slab Repair (Partial Depth)

Patch	Length (Ft)	Width (Ft)	Area (Sq Yd)
PD1	2	4	0.89
PD2	2	2	0.44
PD3	5	3	1.67
PD4	1	1	0.11
PD5	5	5	2.78
PD6	2	2	0.44
PD7	2	1	0.22
PD8	12	11	14.67
PD9	3	11	3.67
PD10	2	2	0.44
PD11	18	2	4.00
PD12	4	2	0.89
PD13	1	1	0.11
PD14	8	3	2.67
PD15	6	6	4.00
PD16	2	2	0.44

Deck Slab Repair (Full Depth)

Patch	Length (Ft)	Width (Ft)	Area Type I (Sq Yd)	Area Type II (Sq Yd)
FD1	6	6	4.00	

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
b(E)	16	#5	33'-2"	
b₁(E)	4	#5	2'-7"	
s(E)	180	#5	3'-6"	
s₁(E)	4	#5	4'-3"	
Concrete Removal		Cu. Yds.		8.0
Reinforcement Bars, Epoxy Coated		Pound		1240
Concrete Superstructure		Cu. Yds.		5.5
Deck Slab Repair (Partial)		Sq. Yd.		37.4
Deck Slab Repair (Full Depth, Type II)		Sq. Yd.		4.0
Waterproofing Membrane System		Sq. Yd.		289

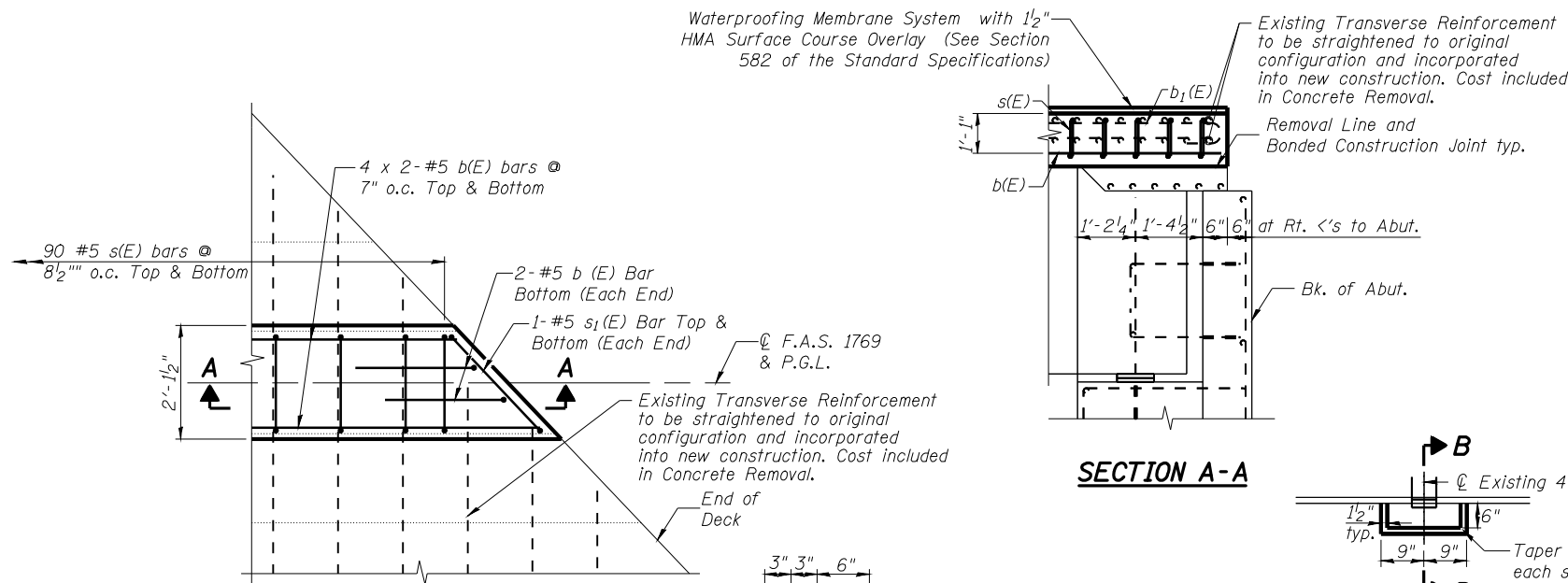Bars indicated thus 4 x 2 - #5 etc. indicates 4 lines of bars with 2 lengths per line.

LONGITUDINAL JOINT PLAN

- Waterproofing Membrane System with 1½" HMA Surface Course Overlay (See Section 582 of the Standard Specifications)
- 4 x 2 - #5 b(E) bars @ 7" o.c. Top & Bottom
- 90 #5 s(E) bars @ 8½" o.c. Top & Bottom
- 2 - #5 b (E) Bar Bottom (Each End)
- 1 - #5 s₁(E) Bar Top & Bottom (Each End)
- ℄ F.A.S. 1769 & P.G.L.
- Existing Transverse Reinforcement to be straightened to original configuration and incorporated into new construction. Cost included in Concrete Removal.
- End of Deck
- 2'-2½"

SECTION A-A

- Existing Transverse Reinforcement to be straightened to original configuration and incorporated into new construction. Cost included in Concrete Removal.
- s(E)
- b₁(E)
- Removal Line and Bonded Construction Joint typ.
- b(E)
- 1'-1"
- Bk. of Abut.
- 1'-2¼" 1'-4½" 6" 6" at Rt. ∢'s to Abut.

RAIL REMOVAL DETAIL

- 3" 3" 6"
- 3"
- 10"
- 5"
- 2"
- 1"
- Patch Surface Per Deck Slab Repair Partial Depth Special Provision. Cost Included in Concrete Removal.

OVERLAY TREATMENT AT FLOOR DRAINS

- ℄ Existing 4"x6" Floor Drain
- 1½" typ.
- 6"
- 9" 9"
- Taper overlay 1:1 each side of drain

SECTION B-B

- Waterproofing Membrane System with 1½" HMA Surface Course Overlay (See Section 582 of the Standard Specifications)
- 6"
- Existing 4"x6" Floor Drain

BARS b₁(E)
2'-0" 7" 5"

BARS s(E)
1'-10" 10"

BARS s₁(E)
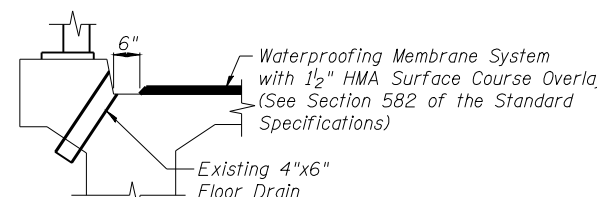2'-7" 10"

LEGEND

- ▨ Deck Slab Repair (Full Depth) - Sq. Yd.
- ▨ Deck Slab Repair (Partial Depth) - Sq. Yd.
- ▨ Concrete Removal

Note: 1. Areas of deck slab repairs shown are estimated. The engineer shall record the actual deck slab repair areas in the "As Built" plans.

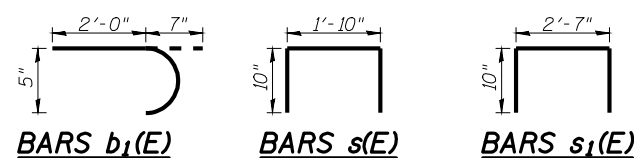ILLINOIS DEPARTMENT OF TRANSPORTATION

DECK PATCHING PLAN & DETAILS
W. FR. IL 55 OVER MACOUPIN CREEK
F.A.S. 1769 (FR I-55) - SEC. 111B-2
MONTGOMERY COUNTY
STATION 1067+45.30
STRUCTURE NO. 068-0054

DATE: 02-08
REVISED:
DRAWN BY: MLO
CHECKED BY: PBB