

NOTES:

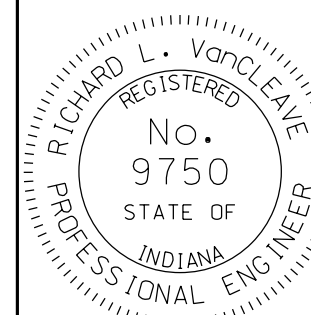
1. See Standard Drawing E 706-MSRW-10 for reinforcing-bar diagrams and General Notes.
- 2 See Standard Drawing E 706-BRSF-01 for concrete railing type FC details.
- 3 Construction joint type A. See Standard Drawing E 702-CJTA-01 for details.

INDIANA DEPARTMENT OF TRANSPORTATION

RAILING TYPE FC AND MOMENT SLAB
ASIDE MSE WALL - PCCP

SEPTEMBER 2012

STANDARD DRAWING NO. E 706-MSRW-01

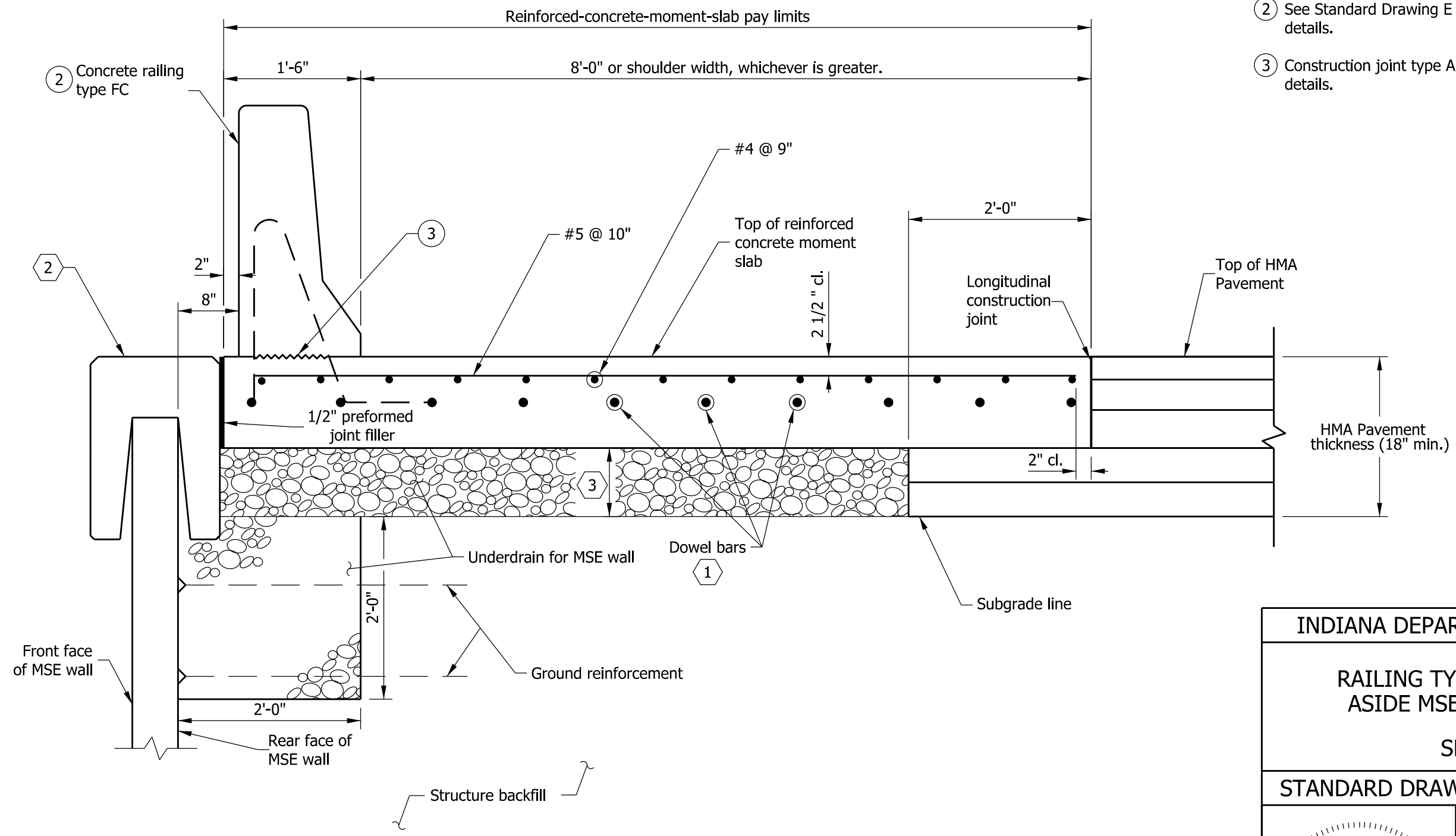



/s/ Richard L. VanCleave 09/04/12
DESIGN STANDARDS ENGINEER DATE

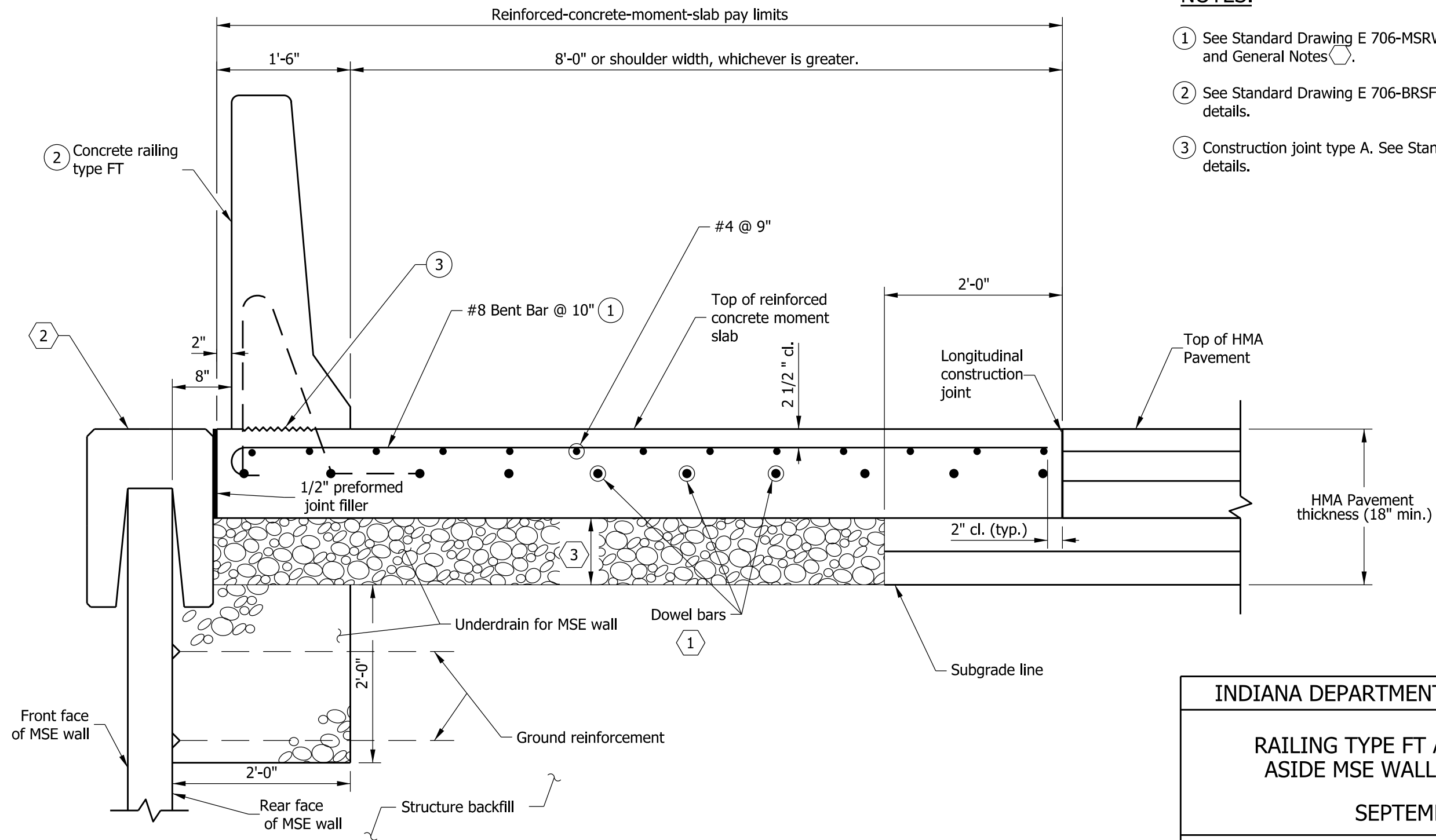
/s/ Mark A. Miller 09/04/12
CHIEF ENGINEER DATE

NOTES:

1. See Standard Drawing E 706-MSRW-10 for reinforcing-bar diagrams and General Notes.
- ② See Standard Drawing E 706-BRSF-01 for concrete railing type FC details.
- ③ Construction joint type A. See Standard Drawing E 702-CJTA-01 for details.




INDIANA DEPARTMENT OF TRANSPORTATION									
RAILING TYPE FC AND MOMENT SLAB ASIDE MSE WALL - HMA PAVEMENT									
SEPTEMBER 2012									
STANDARD DRAWING NO.	E 706-MSRW-03								
	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 2px 5px;"><i>/s/ Richard L. VanCleave</i></td> <td style="padding: 2px 5px; text-align: right;">09/04/12</td> </tr> <tr> <td style="padding: 2px 5px;">DESIGN STANDARDS ENGINEER</td> <td style="padding: 2px 5px; text-align: right;">DATE</td> </tr> <tr> <td style="padding: 2px 5px;"><i>/s/ Mark A. Miller</i></td> <td style="padding: 2px 5px; text-align: right;">09/04/12</td> </tr> <tr> <td style="padding: 2px 5px;">CHIEF ENGINEER</td> <td style="padding: 2px 5px; text-align: right;">DATE</td> </tr> </table>	<i>/s/ Richard L. VanCleave</i>	09/04/12	DESIGN STANDARDS ENGINEER	DATE	<i>/s/ Mark A. Miller</i>	09/04/12	CHIEF ENGINEER	DATE
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DESIGN STANDARDS ENGINEER	DATE								
<i>/s/ Mark A. Miller</i>	09/04/12								
CHIEF ENGINEER	DATE								



NOTES:

- ① See Standard Drawing E 706-MSRW-10 for reinforcing-bar diagrams and General Notes.
- ② See Standard Drawing E 706-BRSF-02 for concrete railing type FT details.
- ③ Construction joint type A. See Standard Drawing E 702-CJTA-01 for details.

INDIANA DEPARTMENT OF TRANSPORTATION									
RAILING TYPE FT AND MOMENT SLAB ASIDE MSE WALL - HMA PAVEMENT									
SEPTEMBER 2012									
STANDARD DRAWING NO.	E 706-MSRW-04								
	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="border-bottom: 1px solid black; padding: 2px;"><i>/s/ Richard L. VanCleave</i></td> <td style="border-bottom: 1px solid black; padding: 2px; text-align: right;">09/04/12</td> </tr> <tr> <td style="padding: 2px;">DESIGN STANDARDS ENGINEER</td> <td style="padding: 2px; text-align: right;">DATE</td> </tr> <tr> <td style="border-bottom: 1px solid black; padding: 2px;"><i>/s/ Mark A. Miller</i></td> <td style="border-bottom: 1px solid black; padding: 2px; text-align: right;">09/04/12</td> </tr> <tr> <td style="padding: 2px;">CHIEF ENGINEER</td> <td style="padding: 2px; text-align: right;">DATE</td> </tr> </table>	<i>/s/ Richard L. VanCleave</i>	09/04/12	DESIGN STANDARDS ENGINEER	DATE	<i>/s/ Mark A. Miller</i>	09/04/12	CHIEF ENGINEER	DATE
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DESIGN STANDARDS ENGINEER	DATE								
<i>/s/ Mark A. Miller</i>	09/04/12								
CHIEF ENGINEER	DATE								

The version of the drawing dated September 2012 has been deleted effective September 2019.

INDIANA DEPARTMENT OF TRANSPORTATION	
RAILING TYPE FC AND MOMENT SLAB ATOP MSE WALL - PCCP SEPTEMBER 2012	
STANDARD DRAWING NO. E 706-MSRW-05	
	DESIGN STANDARDS ENGINEER DATE
	CHIEF ENGINEER DATE

The version of the drawing dated September 2012 has been deleted effective September 2019.

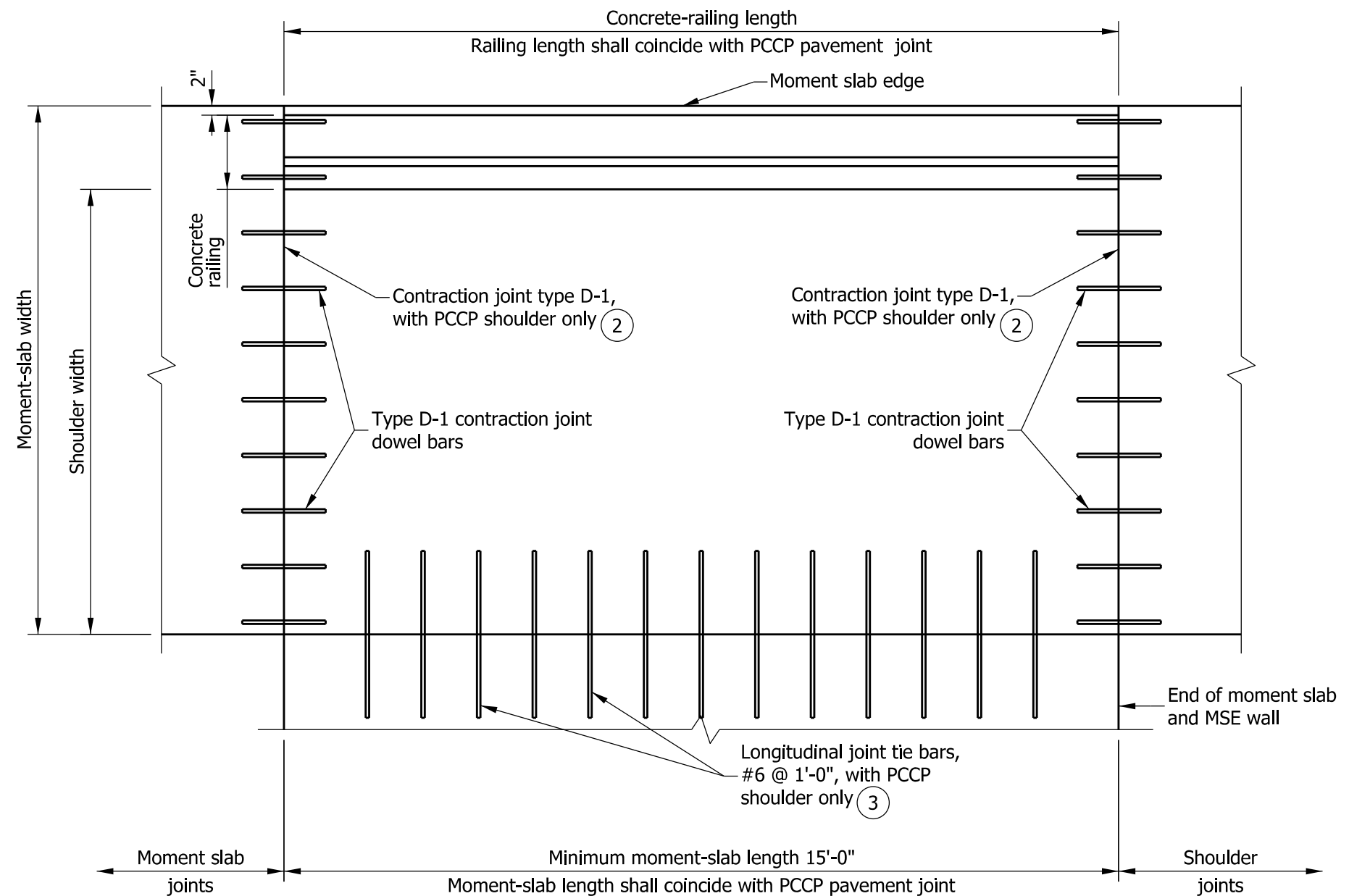
INDIANA DEPARTMENT OF TRANSPORTATION	
RAILING TYPE FT AND MOMENT SLAB ATOP MSE WALL - PCCP	
SEPTEMBER 2012	
STANDARD DRAWING NO. E 706-MSRW-06	
	DESIGN STANDARDS ENGINEER DATE
	CHIEF ENGINEER DATE

The version of the drawing dated September 2012 has been deleted effective September 2019.

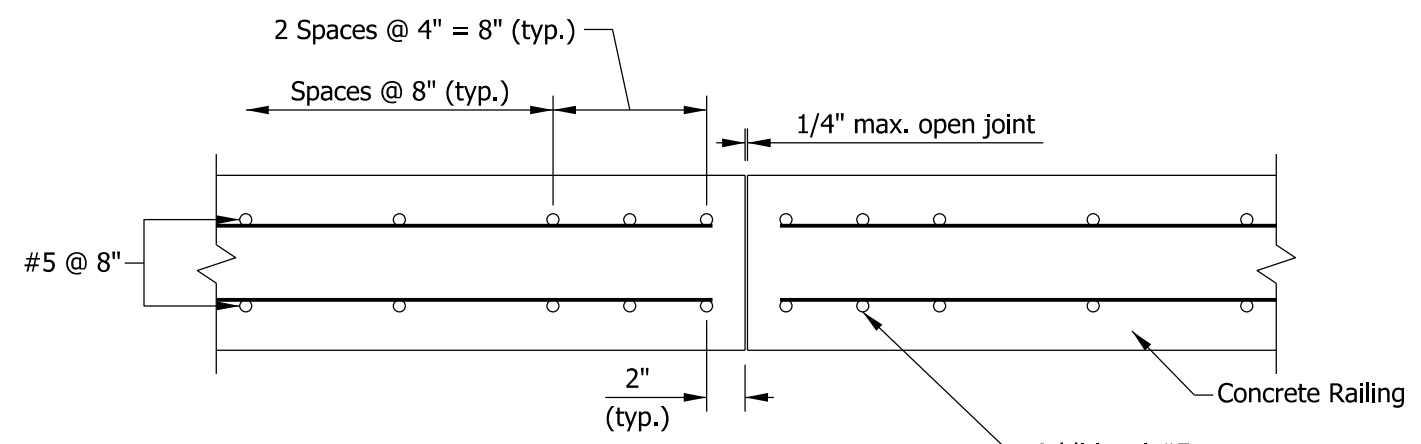
INDIANA DEPARTMENT OF TRANSPORTATION	
RAILING TYPE FC AND MOMENT SLAB ATOP MSE WALL - HMA PAVEMENT	
SEPTEMBER 2012	
STANDARD DRAWING NO. E 706-MSRW-07	
	DESIGN STANDARDS ENGINEER _____ DATE _____
	CHIEF ENGINEER _____ DATE _____

The version of the drawing dated September 2012 has been deleted effective September 2019.

INDIANA DEPARTMENT OF TRANSPORTATION	
RAILING TYPE FT AND MOMENT SLAB ATOP MSE WALL - HMA PAVEMENT	
SEPTEMBER 2012	
STANDARD DRAWING NO. E 706-MSRW-08	
	DESIGN STANDARDS ENGINEER DATE
	CHIEF ENGINEER DATE



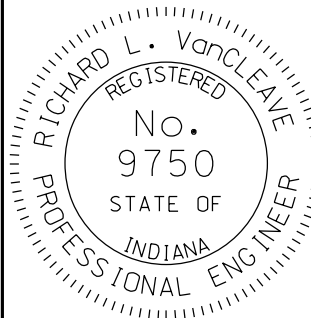
PLAN - REINFORCED CONCRETE MOMENT SLAB JOINTS

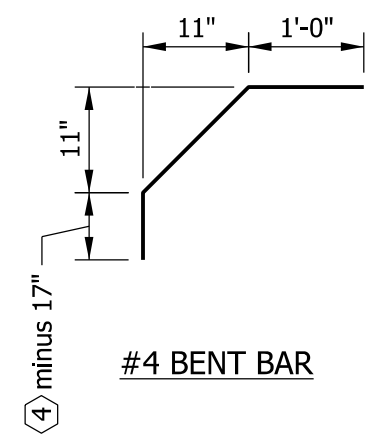
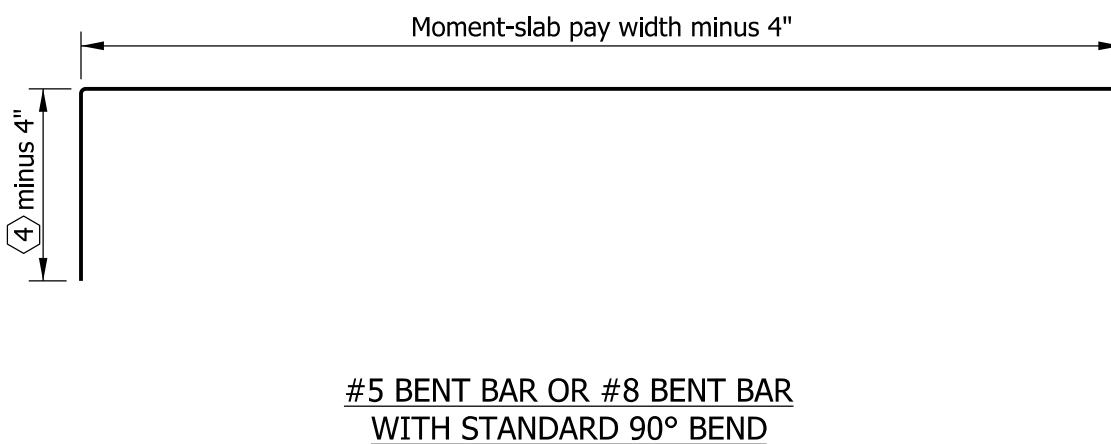
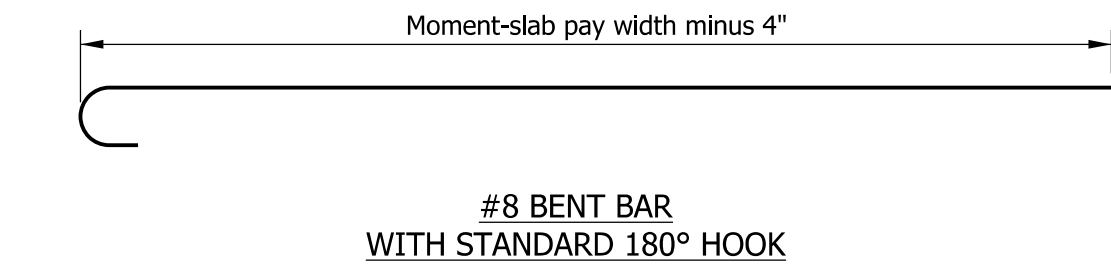


**PLAN - CONCRETE RAILING
ADDITIONAL VERTICAL STEEL**

NOTES:

1. Where used with HMA mainline pavement, concrete railing and moment-slab lengths shall coincide and be spaced at 18 ft. 0 in.
- ② See Standard Drawing series E 503-CCPJ for contraction joint type D-1 details.
- ③ See Standard Drawing series E 503-CCPJ for joint tie-bar details.

INDIANA DEPARTMENT OF TRANSPORTATION									
MOMENT SLAB AND RAILING JOINTS									
SEPTEMBER 2012									
STANDARD DRAWING NO.	E 706-MSRW-09								
	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 2px 5px;"><i>/s/ Richard L. VanCleave</i></td> <td style="padding: 2px 5px; text-align: right;">09/04/12</td> </tr> <tr> <td style="padding: 2px 5px;">DESIGN STANDARDS ENGINEER</td> <td style="padding: 2px 5px; text-align: right;">DATE</td> </tr> <tr> <td style="padding: 2px 5px;"><i>/s/ Mark A. Miller</i></td> <td style="padding: 2px 5px; text-align: right;">09/04/12</td> </tr> <tr> <td style="padding: 2px 5px;">CHIEF ENGINEER</td> <td style="padding: 2px 5px; text-align: right;">DATE</td> </tr> </table>	<i>/s/ Richard L. VanCleave</i>	09/04/12	DESIGN STANDARDS ENGINEER	DATE	<i>/s/ Mark A. Miller</i>	09/04/12	CHIEF ENGINEER	DATE
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GENERAL NOTES:

- ① See Standard Drawing E 706-MSRW-09 for plan view and additional reinforcing bars in the railing at the railing joints.
- ② See Standard Drawing E 731-MSEW-01 for coping details.
- ③ The thickness of the coarse aggregate No. 8 shall be equal to the combined thickness of the first two lifts of the HMA, but not less than 6 in.
- ④
 - For moment slab thickness ≤ 15 in., this shall be 2 ft. 0 in.
 - For moment slab thickness > 15 in., this shall be moment-slab thickness plus 12 in.
- 5. The moment slab shall be used only within the limits of the MSE wall.
- 6. Reinforcing bars in the moment slab shall be epoxy coated.
- 7. See Standard Drawing E 703-BRST-01 for reinforcing-bar bending diagrams and notes.

INDIANA DEPARTMENT OF TRANSPORTATION									
RAILING AND MOMENT SLAB AT MSE WALL									
SEPTEMBER 2012									
STANDARD DRAWING NO.	E 706-MSRW-10								
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