### **CONTENTS**

### **SECTION 6** - **SUPERSTRUCTURE** (cont)

	<del></del>
6.29.09	Bridge Barrier Railing, Type 6
6.29.09A	Bridge Barrier Railing, Type 4 for Railing Repair
6.29.09D	Bridge Barrier Railing, Type 6 (Two-stage Deck)
6.29.10, .10A-C	Bridge Railing, Aesthetic Parapet Tube Sections and Details.
6.29.10E	Bridge Railing, Aesthetic Parapet Tube Aesthetic Treatment
6.29.11	Joint Detail for Bridge Barrier Railing with Expansion Joint
6.29.13, .13A	Barrier Railing Details at Light Standard
6.29.15	Barrier Railing Details at Dependent Backwall
6.29.16, .16A	Barrier Railing Details at Independent Backwall
6.29.17, .17B-H	Bridge Railing, 4 Tube Sections and Details
6.41.01	Standard Bridge Slabs (Load Factor Design)
6.41.02	Standard Bridge Slabs (Empirical Design)
6.42.03	Slab Haunch & Reinforcement Cover
6.42.03A	Deep Haunch Details - Concrete Beams
6.44.01, .01A	Link Slab Details
6.60.01	Prestressed Concrete I Beam Details
6.60.02	Michigan 1800 Girder
6.60.03, .03A-D	Bulb Tee Beam Details
6.60.11, .11A-B	Pier Diaphragms for Prestressed Concrete Beams Continuous for Live Load
6.60.12	Concrete Diaphragms for Prestressed Concrete Beams/Girders
6.60.12A-B	Steel Diaphragms for 28" Through 54" Prestressed Girders
6.60.12C-D	Steel Diaphragms for 70" & MI 1800 Prestressed Girders
6.60.12E-F	Steel Diaphragms for 48" and 54" Bulb Tee Beams
6.60.12G-H	Steel Diaphragms for 60", 66" and 72" Bulb Tee Beams
6.60.13	Details at Abutments for Prestressed Concrete I Beams
6.65.02, .02A-B	Prestressed Concrete Box Beam Properties
6.65.10, .11	Prestressed Concrete Box Beam Reinforcement Details
6.65.10A-G	
6.65.12A	Prestressed Concrete Box Beam Details
6.65.14, .14A-B	Prestressed Concrete Beam Lifting Device Details

## **CONTENTS**

SECTION 7 - S	STEEL REINFORCEMENT

7.11.01	English Reinforcing Bars			
7.14.02	Tension Development and Lap Splice Lengths Spacing Thresholds			
7.14.02A	Tension Development and Lap Splice Lengths Substructure			
7.14.02B	Tension Development and Lap Splice Lengths Superstructure			
7.14.03	Minimum Dimensions for Standard Hooks in Tension			
7.15.01, .02	Standard Reinforcing Bar Types			
SECTION 8 - STRUCTURAL STEEL				
8.06.02, .02A	Welded Girder, Camber Diagram and Stiffener Details			
8.06.03	Plate Girder Welding Details			
8.07.01	Stud Shear Developer Details			
8.11.03	Diaphragm and Connection Plate Details			
8.11.04	End Diaphragm Connection Details 30° to 45°			
8.11.05, .05A	Lateral Bracing Details			
8.11.06	End Cross Frames			
8.11.07	Intermediate and Pier Cross Frames			
8.11.08	Bolted Connections for Intermediate Diaphragms and Crossframes			
8.14.02	Beam or Girder Suspender Design Table			
8.15.01	Suspender Details for Cantilevered Plate Girders			
8.15.01A	Pin Detail			
8.16.02	Suspender Details for Rolled Beams			
8.21.01	CIP Pile Splices			
8.21.02, .02A	H Pile Splice Details			
8.21.03	CIP Pile Point Details			
8.26.01	Fastener Detailing Minimums			
8.31.01	Guide for Selection of Bearing Types for Steel Structures			
8.31.02	Offset Dimensions for Rocker Tilt			
8.32.01, .02	Expansion Rockers - Steel Beams			
8.32.0306	Fixed Bearings - Steel Beams			
8.32.07	Expansion Rocker with Provision for Uplift			
8.42.01	Curved Steel Plate Bearing Details			
8.43.01	Bearing Details for Prestressed Concrete I Beams			
8.43.01A	Bearing Details for Prestressed Concrete Box Beams			

DRAWN BY:	MICHIGAN DEPARTMENT OF TRANSPORTATION  BUREAU OF DEVELOPMENT	ISSUED:
CHECKED BY:	BUILAU OF DEVELOPMENT	SUPERSEDES:
APPROVED BY:		

# BLANK PAGE

DRAWN BY: BLT CHECKED BY: CWC

APPROVED BY: KCK

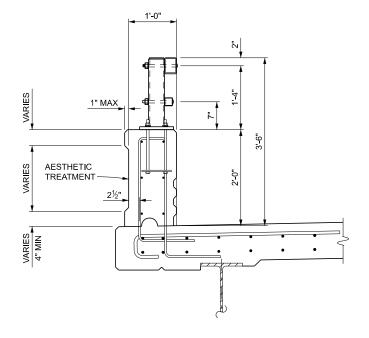
## MICHIGAN DEPARTMENT OF TRANSPORTATION BUREAU OF DEVELOPMENT

# BRIDGE RAILING, AESTHETIC PARAPET TUBE AESTHETIC TREATMENT

ISSUED:

09/22/25

**SUPERSEDES: 02/14/11** 



<u>PAY ITEM</u>
BRIDGE RAILING, AESTHETIC PARAPET TUBE, DET 2

#### NOTES:

CONSTRUCT RAILING IN THE SAME MANNER AS STANDARD BRIDGE RAILING, AESTHETIC PARAPET TUBE, EXCEPT ADJUST THE WIDTH ACCORDING TO THE DETAILS ON THE PLAN TO ACCOMODATE FORM LINERS TO ACCOMPLISH CONCRETE TEXTURING ON THE BACK OF THE BRIDGE RAILING.

USE LONG ANCHOR BOLTS AN A 14" x 26" x %" PLATE TO ATTACH THE GUARDRAIL TO THE BARRIER.

REFER TO THE CONTRACT DOCUMENTS FOR REQUIREMENTS FOR TEXTURING CONCRETE.