

Transmittal No. 24-03

August 15, 2024

Standard Plates

Distribution: Electronic Distribution Recipients

Subject: Standard Plates Index

The Standard Plates Index is revised.

MnDOT has updated the index pages of the *Standard Plates Manual* to match the approval or revision date of each plate, along with other minor corrections. No changes were made to the Standard Plates. The date of the last approved standard plate (June 10, 2024) remains in the index pages' header and footers.

Instructions:

1. Record this transmittal letter number, date and subject on the transmittal record sheet located in the front of the manual. The last transmittal letter was 24-02, dated July 23, 2024.
2. Remove from the manual:
 - Standard Plates Index
3. Insert into the manual:
 - Standard Plates Index, Sheets 1-6 of 6 (06-10-2024)
4. The *Standard Plates Manual* and associated transmittal letters are available online in PDF format at <https://standardplates.dot.state.mn.us/stdplate.aspx>
5. Direct any technical questions regarding this transmittal to Khamsai Yang, State Design Standards Engineer, at (612) 322-5601 or DesignStandards.DOT@state.mn.us



Khamsai Yang, P.E.

State Design Standards Engineer

Office of Project Management and Technical Support

THIS PAGE INTENTIONALLY LEFT BLANK ✓

Index

<u>Series</u>	<u>Subject</u>
1000	Pavement
3000	Culverts and Appurtenances
4000	Sewer Appurtenances
5000	Erosion Control Structures
7000	Curb, Curb and Gutter, Sidewalk
8000	Barricades, Signals, Markers, Etc
9000	Miscellaneous

Plate Number	Subject	Approval Date	Revision Date
Series 1000: Pavement			
1070N	Supplemental Pavement Reinforcement	09-30-2022	
1103L	Typical Dowel Bar Assembly (2 Sheets)	08-13-2020	
1210G	Concrete Pavement Adjacent to Railway Crossing	04-14-2010	03-22-2013
Series 3000: Culverts and Appurtenances			
3000M	Reinforced Concrete Pipe (6 Sheets)	03-05-2020	
3001B	Reinforced Concrete Reducer Pipe	01-21-1983	
3002B	Reinforced Concrete Increaser Pipe	01-21-1983	
3006H	Gasket Joint for R.C. Pipe (2 Sheets)	03-05-2020	
3007F	Shear Reinforcement for Precast Drainage Structures	03-05-2020	
3014L	Reinforced Concrete Pipe Arch (3 Sheets)	09-30-2022	
3020H	Reinforced Precast Concrete Cattle Pass (60" & 72")	01-09-2019	
3021B	3 X 3 Precast Concrete Box Culvert (2 Sheets)	09-30-2022	
3022C	Precast Concrete Safety Apron (3 Sheets)	09-19-2000	03-22-2013
3040F	Corrugated Metal Pipe Culvert (Standard 2-2/3" x 1/2" Corrugation)	01-29-1979	08-22-1996
3041E	Corrugated Metal Pipe (3" x 1" or 5" x 1" Corrugation)	02-22-2021	
3050B	Design Data Structural Plate Structures (18" Corner Radius)	10-01-1966	
3051B	Design Data Structural Plate Structures (31" Corner Radius)	10-01-1966	
3065C	Connection Between Existing Culvert & New "C" Culvert Barrel (2 Sheets)	11-13-1977	
3066A	C.M. Extension for Box Culvert	10-01-1966	
3100G	Concrete Apron for Reinforced Concrete Pipe	05-08-1985	10-16-2000
3110G	Concrete Apron for Reinforced Concrete Pipe-Arch	05-08-1985	10-16-2000
3114H	Sectional Concrete Apron for Reinforced Concrete Pipe-Arch	11-13-1986	03-22-2013
3122K	Metal Apron for C.M. Pipe-Arch Culvert	11-13-1986	
3123J	Metal Apron for C.S. Pipe	11-13-1986	05-03-1999

Plate Number	Subject	Approval Date	Revision Date
3124B	Metal Apron Connection	07-21-1983	
3125A	Inlet Protection for Metal Culverts - 90" Dia. to 96" Dia.	11-12-1975	03-22-2013
3126B	Inlet Protection for Structural Plate - 60" Thru 96" Dia. or Spans of Equivalent Diameter	07-31-1980	03-22-2013
3127A	Inlet Protection for Structural Plate Pipe - 102" Thru 108" Dia. or Spans or Equivalent Dia.	11-12-1975	03-22-2013
3128H	Metal Safety Apron & Grate (2 Sheets)	11-01-2000	03-12-2003 Sheet 1 of 2
3129A	Metal Apron for Corrugated Polyethylene Pipe - Use at Entrances and Driveways	02-26-1987	
3131C	Precast Concrete Headwall for Subsurface Drains	08-20-2001	03-22-2013
3132A	Grate for 1:4 Precast Concrete Aprons	12-18-1996	03-12-2003
3133D	Riprap at RCP Outlets	12-09-2013	
3134D	Riprap at CSP Outlets	12-09-2013	
3135A	Hand Placed Riprap at Precast Concrete Cattle Pass	10-01-1966	
3136B	Slotted Vane Drain for P.V.C. Pipe	08-17-1998	
3137B	Slotted Drain for 12" Thru 30" Dia. C.M. Pipe (Stackable)	05-22-2001	
3138B	Slotted Drain for 12" Thru 30" Dia. C.M. Pipe (Not Stackable)	05-22-2001	
3139B	Riprap at Precast Concrete End Sections (1:4 and 1:6 Slopes)	12-09-2013	
3142A	Outlet Screen for C.M. & S.C. Pipes	10-01-1966	
3143C	Inspection Tees (Metal and Concrete)	01-12-1978	
3145G	Concrete Pipe or Precast Box Culvert Ties	09-14-2012	
3146C	Anti-Seepage Diaphragm (For CMP and CMP-A)	04-30-1980	
3148A	Safety Slope Metal End Section for Circular & Arched Pipes (2 Sheets)	11-20-1991	03-12-2003 03-22-2013
3221D	Corrugated Steel Pipe Coupling Band (3 Sheets)	02-22-2021	
Series 4000: Sewer Appurtenances			
Drainage Structures and Castings Document Reference Date: 09-19-2018			
4000J	Manhole or Catch Basin - Masonry, Field Constructed - Design A	10-17-1994	08-22-1996
4002F	Manhole or Catch Basin - Masonry, Field Construction - Design C	10-17-1994	08-22-1996
4003B	30" Precast Catch Basin - Design N	03-14-1996	08-22-1996
4005M	Manhole or Catch Basin - Type A & B Cone Sections - Precast - Design F	04-16-2014	
4006L	Manhole or Catch Basin - Precast - Designs G and H	07-31-1995	08-22-1996
4007C	Precast Mechanical Joint Sewer Manhole	04-02-1979	07-22-1997
4008F	Tee Catch Basin - Sectional Concrete Pipe - Design I	09-30-2022	
4009I	Manhole or Catch Basin - Integral Tee Section - Sectional Concrete Pipe - Design J	09-30-2022	
4010I	Concrete Adjusting Rings	09-30-2022	
4011E	Precast Concrete Base	10-17-1994	03-22-2013
4017C	Catch Basin - Concrete Pipe and Metal Pipe - Designs PC and PM	10-01-1967	09-13-2016

Plate Number	Subject	Approval Date	Revision Date
4018A	Manhole or Catch Basin - Reducer Cone Section - Precast - Design D	04-16-2014	
4020J	Manhole or Catch Basin - For Use With or Without Traffic Loads (2 Sheets)	11-22-2000	03-22-2013 10-29-2013
4021F	Precast Curb Opening Catch Basin	07-06-2001	03-22-2013
4022A	Manhole or Catch Basin Cover - 3' x 2' Opening - For Use With or Without Traffic Loads	03-02-1998	03-22-2013
4024A	48" Dia. Precast Shallow Depth Catch Basin - Design SD	02-02-1997	
4025B	Drop Inlets or Catch Basins - Design DI (Concrete & Metal)	10-01-1966	11-12-2013
4026B	Concrete-Encased Concrete Adjusting Rings	09-30-2022	
4101D	Ring Casting for Manhole or Catch Basin	10-25-1996	
4108F	Adjusting Rings - For Catch Basins and Manholes	03-06-1991	
4110F	Cover Casting for Manhole (For Use In All Traffic Areas) - Casting No. 715 and 716	10-25-1996	09-13-2016
4125D	Catch Basin Frame Casting (For Square Grate) - Casting No. 806	03-08-1996	
4126F	Catch Basin Frame Casting - Casting No. 801	04-05-1989	
4129G	Catch Basin Frame Casting - For Square Grate - Casting No. 802A	03-14-1996	03-22-2013
4132G	Catch Basin Frame Casting (For Square Grate) - Casting No. 805	09-19-2018	
4133A	Curb Box Casting for Catch Basin - Casting No. 824	03-08-1982	
4134A	Curb Box Casting for Catch Basin (For Design B Curbs)- Casting No. 825	04-13-1995	03-22-2013
4140D	Special Grate Castings for Catch Basin - Convex and Concave - Casting No. 720 and 721	10-01-1966	09-13-2016
4143E	Stool Grate & Concrete Frame (Median Drains) - Casting No. 731	03-14-1996	03-22-2013
4149C	Grate Casting for Catch Basin - Casting No. 810	10-01-1966	01-21-1998
4150C	Grate Casting - For All Pipe Drainage Structures	02-06-1997	
4151B	Grate Casting for Catch Basin - Square Type - Casting No. 811	10-01-1966	
4152C	Catch Basin Grate Casting - Casting No. 814A	02-27-1991	
4153A	Catch Basin Grate Casting - Casting No. 815	10-05-1978	
4154B	Catch Basin Grate Casting - Casting No. 816	10-10-1979	
4155A	ADA Grate Inlet Casting - Casting No. 817	09-19-2018	
4160D	Curb Box Casting for Catch Basin - Casting No. 823A and 833A	12-10-1982	
4161F	Curb Box Casting for Catch Basin - Casting No. 821B, 822 and 831A	12-10-1982	
4180J	Manhole or Catch Basin Step	12-30-1996	
Series 5000: Erosion Control Structures			
5010A	Reinforced Concrete Pipe Energy Dissipater	11-02-1992	03-22-2013
Series 7000: Curb, Curb and Gutter, Sidewalk			
7000E	Integrant Curbs - Design B, Design V and Design D	9-13-1973	
7020K	Concrete Curb - Design B, Design V, Design S, Design DR and Design BR (2 Sheets)	07-25-2011	03-22-2013 Sheet 2 of 2
7038A	Detectable Warning Surface - Truncated Domes	08-23-2010	01-09-2020
7065C	Bituminous Curb	10-01-1966	

Plate Number	Subject	Approval Date	Revision Date
7100H	Concrete Curb and Gutter - Design B and Design V	03-11-1994	02-28-2005
7102K	Concrete Curb and Gutter - Design D, Design S and Design R	08-28-2017	
7105C	Concrete Median - Mountable Type	10-01-1966	
7107I	Entrance Nose (Urban Design)	07-25-2011	
7108G	Exit Nose (Urban Design)	07-25-2011	
7109C	Median Nose and Island (Undivided to Divided Roadway)	04-18-1995	05-28-2003
7111J	Installation Of Catch Basin Castings - Concrete Curb & Gutter	04-23-1996	03-22-2013
7112C	Installation & Reinforcement Of Catch Basin & Manhole Castings - Concrete Integrant Curbs	04-23-1996	09-13-2016
7113A	Concrete Approach Nose Detail	06-24-1993	05-28-2003
Series 8000: Barricades, Signals, Markers, Etc			
8000K	Temporary Channelizers (3 Sheets)	05-14-2021	
8106D	Equipment Pad B (3 Sheets)	07-15-2015	
8107A	RLF Equipment Pad Foundation Layout (3 Sheets)	12-16-2016	
8110E	Traffic Signal Bracketing (Pole Mounted)	05-22-2009	
8111E	Traffic Signal Bracketing (Pedestal Mounted) (3 Sheets)	05-22-2009	
8112I	Pedestal Foundation (Traffic Control Signals)	07-15-2015	
8117G	Precast Concrete Handhole - With Vehicle Load	06-02-2014	
8118D	Service Equipment & Pole - Traffic Control Signals	05-01-2008	
8119C	Ground Mounted Cabinet Foundation	05-18-1978	
8122F	Pedestal and Pedestal Base (For Traffic Control Signals Support) (2 Sheets)	12-20-2011	
8124A	Pole and Mast Arm Type TS - For Mast Arm Lengths 15' to 55' (12 Sheets)	02-27-2024	
8125A	Pole and Mast Arm Type TS - For Mast Arm Lengths 60' to 80' (13 Sheets)	02-27-2024	06-10-2024 Sheet 2 of 13
8127E	Light Foundation - Design E (40' Pole or Less) (2 Sheets)	07-15-2015	
8128E	Light Foundation - Design H (49' Pole) (2 Sheets)	07-15-2015	
8129A	Shim and Washer (Traffic Control Signals and Roadway Lighting)	12-20-2011	
8130E	Saw Cut Loop Detectors (3 Sheets)	11-11-2009	
8132B	Preformed Rigid PVC Conduit Loop Detector (3 Sheets)	11-20-2011	
8135A	Anchor Rod Assembly for Light Tower Foundation	11-05-2019	
8150C	Installation of Culvert Markers	05-03-2004	
8307S	W-Beam Guardrail & End Anchorages (Wood Posts) (4 Sheets)	03-23-2011	03-22-2013 Sheet 4 of 4
8308C	Reinforced Concrete Median Barrier Type F (Non-Glare Screen Type) (4 Sheets)	04-14-2020	
8309C	Reinforced Concrete Median Barrier Type F & Glare Screen (4 Sheets)	04-14-2020	
8316C	Post Seat for Anchorage on Footing or Box Culverts	12-08-1981	08-10-1999
8318C	Guardrail Anchorage Plate for Bridges and BCT's	09-13-1984	10-16-1996
8320A	Barrier Gap Rail (BGR) (3 Sheets)	10-11-2023	
8326D	Flexible Plastic Glare Screen	11-15-1984	04-28-1998

Plate Number	Subject	Approval Date	Revision Date
8330G	3-Cable Guardrail - With Wood Posts (2 Sheets)	10-01-2002	06-04-2004 Sheet 2 of 2
8331B	3-Cable Guardrail - With Steel Posts (3 Sheets)	08-21-2002	
8332E	Anchor Rod Assembly for Light Foundation - Barrier	04-14-2020	
8333B	3-Cable Guardrail Anchor (4 Sheets)	08-02-2002	03-22-2013 Sheet 1 01-05-2005 Sheets 2-4
8337D	Temporary Portable Precast Concrete Barrier - Type F (3 Sheets)	05-14-2021	
8338D	W-Beam Guardrail & End Anchorages (Steel Posts) (4 Sheets)	03-21-2011	
8339A	3-Cable (Steel Posts) to W Beam (Wood Posts) Guardrail Transition	11-01-2003	
8340A	3-Cable (Steel Posts) to W Beam (Steel Posts) Guardrail Transition	01-20-2006	
8342B	High-Tension Cable Barrier Line Post Foundation - Concrete Design	08-19-2015	
8343A	High-Tension Cable Barrier Line Post Foundation - Steel Design	08-19-2015	09-13-2016
8347B	Portable Precast Concrete Barrier Anchors	05-15-2019	
8350A	Thrie Beam Anchorage Plate	09-14-2012	
8352C	Thrie Beam Wedge Plate for F-Shape and J-Shape Barrier (2 Sheets)	07-05-2022	
8354A	W-Beam End Section	02-09-2023	
8355B	W-Beam Guardrail (2 Sheets)	02-09-2023	
8356A	W-Beam to Thrie-Beam Transition Guardrail	07-01-2019	
8357A	Thrie-Beam Guardrail	07-01-2019	
8358A	Thrie-Beam Slotted Rail for Bullnose (2 Sheets)	04-11-2021	
8360B	Guardrail Post Length Marking	03-05-2020	07-05-2022
8361B	Guardrail Steel Post (3 Sheets)	03-26-2021	
8362A	Universal Breakaway Steel Post (UBSP) (2 Sheets)	04-11-2021	
8363A	Steel Post Trailing-End Anchor (5 Sheets)	02-09-2023	
8365B	BCT Timber Post	02-09-2023	
8366B	BCT Foundation Tube	02-09-2023	
8368B	CRT Wood Post	02-09-2023	
8369B	Guardrail Blockout (2 Sheets)	02-09-2023	
8370B	Guardrail Anchor Components (2 Sheets)	02-09-2023	
8371A	Nose Cable - Bullnose Guardrail	04-11-2021	
8380A	Trailing End Anchor Strut and Yoke	02-09-2023	
8400F	Pipe Railing - Pedestrian Railing for Stairs and Ramps (At Grade)	01-09-2019	
Series 9000: Miscellaneous			
9000E	Approaches and Entrances - Recommended Standards	09-27-2012	
9101B	Shaping and Sodding of Slopes at Box Culvert Ends	10-01-1966	
9303B	Geodetic Survey Disks - Aluminum (2 Sheets)	04-20-1995	
9304A	Geodetic Survey Disks - Removable Type Disk	10-14-2015	
9308A	Survey Monument Cap (2 Sheets)	11-22-1978	
9309G	PLS (Public Land Survey) Monument (2 Sheets)	11-16-1981	
9320G	Woven Wire Fence - Wood Post	12-30-1981	
9321F	Woven Wire Fence - Steel Post (2 Sheets)	02-28-2022	

Plate Number	Subject	Approval Date	Revision Date
9322K	Chain Link Fence (2 Sheets)	10-21-2008	12-10-2008 Sheet 1 of 2
9323D	Barbed Wire Fence - Wood Post	12-30-1981	
9324C	Barbed Wire Fence - Steel Post	12-30-1981	
9350C	Mailbox Support - Swing-Away Type (3 Sheets)	10-11-2023	