

MDT DETAILED DRAWINGS FEBRUARY 2005 EDITION SUPPLEMENTAL RELEASE (APRIL 2012) SUMMARY

Note: All Detailed Drawings have an Effective Date of February 2005, unless there is an effective date noted in one of the Supplemental columns of the table below.

An effective date in the Supplement Text column indicates a supplemental change has been made without a new printing release. These supplemental changes are listed in the Supplemental Text Revisions table, which follows and is posted on the MDT Internet. For more detailed information on these drawings or any of the drawings not listed, please contact by e-mail mdtdetaileddrawings@mt.gov or the Construction Administration Services Bureau at (406) 444-0464. You may also contact the MDT/MSU Design Section at (406) 994-1859 for any inquiries or comments on the Detailed Drawings.

*Drawings modified this release.

Detailed Drawing No.	Suppl. Dwg. Effective Date	Suppl. Text Effective Date	Detailed Drawing Title	Remarks
TTL1	May 2009		Title Sheet	Update to reflect new supplemental release date.
	Sept. 2010		Title Sheet	Update to reflect new supplemental release date.
	May 2011		Title Sheet	Update to reflect new supplemental release date.
	Dec. 2011		Title Sheet	Update to reflect new supplemental release date.
TOC1	May 2009		Table of Contents	Update to reflect Dtl. Dwg's. changes.
	May 2011		Table of Contents	Update to reflect Dtl. Dwg's. changes.
TOC2	May 2009		Table of Contents	Update to reflect Dtl. Dwg's. changes.
	May 2011		Table of Contents	Update to reflect Dtl. Dwg's. changes.
TOC3	May 2009		Table of Contents	Update to reflect Dtl. Dwg's. changes.
	May 2011		Table of Contents	Update to reflect Dtl. Dwg's. changes.
TOC4	May 2009		Table of Contents	Update to reflect Dtl. Dwg's. changes.
	May 2011		Table of Contents	Update to reflect Dtl. Dwg's. changes.
TOC5	May 2009		Table of Contents	Update to reflect Dtl. Dwg's. changes.
	Sept. 2010		Table of Contents	Update to reflect Dtl. Dwg's. changes.
	May 2011		Table of Contents	Update to reflect Dtl. Dwg's. changes.
TOC6	May 2009		Table of Contents	Update to reflect Dtl. Dwg's. changes.
	May 2011		Table of Contents	Update to reflect Dtl. Dwg's. changes.
	Dec. 2011		Table of Contents	Update to reflect Dtl. Dwg's. changes.
TOC7	May 2009		Table of Contents	New (May-09)
	May 2011		Table of Contents	Update to reflect Dtl. Dwg's. changes.
	Dec. 2011		Table of Contents	Update to reflect Dtl. Dwg's. changes.
101-05			Abbreviations	
101-06			Abbreviations	
101-07			Abbreviations	
101-08			Abbreviations	
101-10			Symbols	
203-00	Jan. 2008		Roadway Embankment at Bridge End	Change to match Bridge End Backfill Details and Special Provisions. Misc. drafting updates. Update Std. Spec. Reference.
203-05			Approaches	
	May 2011		Approaches	Revised to show 10:1 slopes instead of 6:1.
203-10	May 2009		Approach Mailbox Turnout	New (May-09)
203-10	May 2009		Approach Mailbox Turnout	Rescinded (May 2011), Modified and changed to 623-10.
203-15			Mailbox Turnout	Rescinded (May 2011), Modified and changed to 623-15.
203-20			Ditch Blocks	
	May 2011		Ditch Blocks	Revised to show 10:1 slopes instead of 6:1.
208-00	Apr. 2006		Schedule of Best Management Practices	Changed drawing title of 208-12A and 208-12B.
208-1A			Inlet/Outlet Protection	
208-1B			Waterway Protection	
208-1C			Water Resource Protection	
208-02			Preservation of Existing Vegetation (SS-2)	
208-04			Hydraulic Mulch (SS-3)	
208-06			Temporary Seeding (SS-4)	
208-08			Soil Binders (SS-5)	
208-10			Straw Mulch (SS-6)	
208-12A	Apr. 2006		Erosion Cont. Blankets/Mats, Plastic Covers & Geotextiles (SS-7)	Note Title Change (Apr.-06). Updated Geotextile callouts, installation and specification references. Added Erosion Control Blankets installation and specification references.
208-12B	Apr. 2006		Erosion Cont. Blankets/Mats, Plastic Covers & Geotextiles (SS-7)	Note Title Change (Apr.-06)

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Detailed Drawing No.	Suppl. Dwg. Effective Date	Suppl. Text Effective Date	Detailed Drawing Title	Remarks
208-14			Wood Mulch (SS-8)	
208-16	Apr. 2006		Earth Dikes/Drainage Swales & Lined Ditches (SS-9)	Changed reference to SS-7, as title of SS-7 changed.
		May 2009	Earth Dikes/Drainage Swales & Lined Ditches (SS-9)	Change "REMOVAL ALL DIKES" to "REMOVE ALL DIKES".
208-18	Apr. 2006		Outlet Protection/Velocity Dissipation Devices (SS-10)	Changed all references to "Geotextile" to "Permanent Erosion Control Geotextile." Added Geotextile installation and specification references.
208-20			Slope Drains (SS-11)	
208-22			Slope Roughening (SS-12)	
208-24			Terraced Slopes (SS-13)	
208-26		May 2009	Vegetated Buffer (SS-14)	Reword "ALWAYS CONSIDER VEGETATED BUFFER BUFFERS" to "ALWAYS CONSIDER VEGETATED BUFFERS".
208-28			Erosion Seeding (SS-15)	
208-30	Apr. 2006		Silt Fence (SC-1)	Added reference to Std. Specs. 716 for materials.
208-32A	Apr. 2006		Desilting Basin (SC-2)	Changed all references to "Geotextile" and "Geofabric" to "Permanent Erosion Control Geotextile." Added Geotextile installation and specification references. Fixed spelling error.
		May 2009	Desilting Basin (SC-2)	Change "GRAVEL JACKER" to "GRAVEL JACKET".
208-32B		May 2009	Desilting Basin (SC-2)	Change "GRAVEL JACKER" to "GRAVEL JACKET".
208-34			Sediment Trap (SC-3)	
208-36	Apr. 2006		Check Dams (SC-4)	Fixed spelling error.
208-38			Fiber Rolls (SC-5)	
208-40			Gravel Bag Berm (SC-6)	
208-42			Sand Bag Barriers (SC-8)	
208-44			Straw Bale Barriers (SC-9)	
208-46A		May 2009	Storm Drain Inlet Protection (SC-10)	Change "FOR FLOWS LESS THEN 0.5 CFS (0.014 m ³ /S)" to "FOR FLOWS LESS THAN 0.5 CFS (0.014 m ³ /S)".
208-46B			Storm Drain Inlet Protection (SC-10)	
208-48			Dugout Ditch Basin (SC-11)	
208-50			Wind Erosion Control (WE-1)	
208-52			Snow Accumulation Management (SN-2)	
208-54			Freeze Reduction (SN-3)	
208-56			Stabilized Construction Entrance/Exit (TC-1)	
208-58	Apr. 2006		Entrance/Exit Tire Wash (TC-3)	Fixed spelling error.
208-60	Apr. 2006		Temporary Stream Crossings (NS-4)	Changed all references to "Geofabric" to "Permanent Erosion Control Geotextile." Added Geotextile installation and specification references. Fixed spelling errors.
401-02			Shoulder Rumble Strips	
552-00	Jan. 2008		Concrete Cutoff Walls For Culverts	Correct reference to drawing 603-19 in notes. On metric drawing change "152.4 x 152.4 x W18.71 mm ² Wire Mesh" note to "152.4 x 152.4 x MW18.71 Wire Mesh". Add dimensions for ferrule insert.
552-04	Apr. 2006		Concrete, Riprap and Bedding Material Quantities For Sing. and Dbl. Culvert Installation	Removed 48" (1200 mm) & equivalent size pipes and smaller, re-worked notes and misc. other changes. Updated bedding quantities for RCPA's.
		Jan. 2008	Concrete, Riprap and Bedding Material Quantities For Sing. and Dbl. Culvert Installation	Update all mention of "x" to D/4 or R/3. Remove mention of metal pipes.
552-06	Apr. 2006		Concrete, Riprap and Bedding Material Quantities For Sing. and Dbl. Culvert Installation	Re-worked notes, removed 3:1 columns and misc. other changes.
		Jan. 2008	Concrete, Riprap and Bedding Material Quantities For Sing. and Dbl. Culvert Installation	Remove mention of concrete pipes.
552-08	Apr. 2006		Concrete, Riprap and Bedding Material Quantities For Sing. and Dbl. Culvert Installation	Removed 48" (1200 mm) equivalent size pipes and smaller, re-worked notes and misc. other changes. Re-moved 3:1 columns. Added 2.5:1 quantities for edge protection. Re-formatted table to match metric format. Changed format for SSPP's to be in ft and in.

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Detailed Drawing No.	Suppl. Dwg. Effective Date	Suppl. Text Effective Date	Detailed Drawing Title	Remarks
		Jan. 2008	Concrete, Riprap and Bedding Material Quantities For Sing. and Dbl. Culvert Installation	Remove mention of concrete pipes.
603-02			CMP Flared End Terminal Section (FETS)	
603-08	Jan. 2008		Prefabricated RCP Flared End Terminal Section (FETS)	Change the word "fabric" to "mesh" throughout.
603-10			Prefabricated RCP Arch Flared End Terminal Section (FETS)	
603-12			RCP Road Approach Culvert End Treatment (RACET)	
603-14			CMP Road Approach Culvert End Treatment (RACET)	
603-17			Precast Median U-Turn Cross Drain and Conc. Beveled End	
603-18	Apr. 2006		Bedding for Mainline Culverts 48" (1200 mm) Equivalent & Smaller	Changed drawing title. Completely re-did drawing.
	Jan. 2008		Bedding for Mainline & Public Approach Culverts 48" (1200 mm) Equivalent & Smaller	Note Title Change (Jan.-08) to include public approaches. Show Foundation material on Pipe End Detail, add bermed fill material and fix dimensions to reconcile w/ 552 series drawings notes.
603-19	Apr. 2006		Culvert Bedding for Mainline Crossings 54" (1350 mm) Equivalent & Larger	New (Apr.-06)
	Jan. 2008		Bedding for Culverts 54" (1350 mm) Equivalent & Larger	Note Title Change (Jan.-08) to include all culverts. Show Foundation material on Pipe End Detail, add bermed fill material, change bedding depth note per Hydraulics and fix metric dimensions to reconcile w/ 552 series drawings notes.
603-20			RCP Culvert Bedding	Rescinded (Apr.-06)
603-22			Water Tight Joint For Reinforced Concrete Pipe	
603-24			Reinforced Concrete Pipe Joint	
603-26			Typical Field Cast Concrete Connections	
603-28			Embankment Protector	
	May 2011		Embankment Protector	Labeled 4" high curb (see DTL. DWG. No. 609-05)
603-30	Jan. 2008		Vehicular Underpass and Backfill Retainer & Cutoff Wall Detail	On Metric drawing change "152.4 x 152.4 x W18.71 mm ² Wire Mesh" notes to "152.4 x 152.4 x MW18.71 Wire Mesh". On the English and Metric drawings, change surfacing from CR. TOP SURF and CR BASE, to CRUSHED AGGREGATE COURSE.
603-32	Apr. 2006		Step Bevel For Circular Metal Culvert	Removed 48" (1200 mm) pipe, Changed SSPP sizes from inches to feet & inches.
	May 2009		Step Bevel For Circular Metal Culvert	On the English drawing, change the "X" distance for a 13' 6" (162") diameter Step Bevel Circular Metal Culvert from 2.375 feet to 3.375 feet.
603-34			Bevel on Arch Metal Culvert	
603-36			Corrugated Steel Pipe Stockpass	
604-00			Median Inlet Cover	
604-02			Concrete Manhole	
	May 2011		Concrete Manhole	Revised 400 lb weight requirement for standard frame and lid. Added a note to center the opening over the roof slab for Type I, II, IV, and V Inlets on 48" [1200] combination Type 3 manholes.
604-03	Jan. 2008		Curb Inlet Type II	On Metric drawing change "152.4 x 152.4 x W18.71 mm ² Wire Mesh" note to "152.4 x 152.4 x MW18.71 Wire Mesh". On the English and Metric drawings, add D&L Foundry Model I-3559 to the note under the Plan view.
		May 2009	Curb Inlet Type II	Add the following note: For combination manhole/inlets where steps are required, do not use Type II combination inlets for manhole depths greater than 4 feet (1.2 meters).
604-04	Jan. 2008		Drop Inlet Type IV	On Metric drawing change "152.4 x 152.4 x W18.71 mm ² Wire Mesh" note to "152.4 x 152.4 x MW18.71 Wire Mesh". On the English and Metric drawings, add D&L Foundry Model I-3425 to the note under the Plan view.
		May 2009	Drop Inlet Type IV	Add the following note: When combination manhole depths are greater than 4 feet, offset the access hole over the manhole steps.

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Detailed Drawing No.	Suppl. Dwg. Effective Date	Suppl. Text Effective Date	Detailed Drawing Title	Remarks
604-06			Type IV Drop Inlet With Slotted Drain	
604-08			Type II Curb Inlet With Slotted Drain	
604-14	Jan. 2008		Drop Inlets	Change the word "fabric" to "mesh" throughout. On Metric drawing change "152.4 x 152.4 x W18.71 mm ² Wire Mesh" note to "152.4 x 152.4 x MW18.71 Wire Mesh".
604-16	May 2011		Drop Inlets Type V and VI	New (May 2011)
606-05A	Apr. 2006		Metal Guardrail - Wood Posts	Added minimum distance to obstacle note.
	May 2011		Metal Guardrail – Wood Posts	Modified the curb scale and shape next to the post to more accurately show the shape of the 4" high curb. Revised the note to read 4" curb when specified (See DTL. DWG. No. 603-28 AND 609-05).
	Dec. 2011		Metal Guardrail – Wood Posts	Modified height of guardrail to reflect a 29" top-of-rail.
606-05B	Apr. 2006		Metal Guardrail - Steel Posts	Added minimum distance to obstacle note.
	May 2011		Metal Guardrail – Steel Posts	Modified the curb scale and shape next to the post to more accurately show the shape of the 4" high curb. Revised the note to read 4" curb when specified (See DTL. DWG. No. 603-28 and 609-05).
	Dec. 2011		Metal Guardrail – Steel Posts	Modified height of guardrail to reflect a 29" top-of-rail.
606-07	Apr. 2006		Stiffened Guardrail Sections	Updated distance limits to obstacle and altered note #1 to not specify C.B.R. when limits cannot be achieved. Directed to use a "Rigid Barrier" in these cases.
	May 2011		Stiffered Guardrail – Sections	Added note to include bridge approach section(s) in payment length of stiffened guardrail.
606-09	Apr. 2006		Nested W-Beam Guardrail	Added minimum distance to obstacle note.
	Dec. 2011		Nested W-Beam Guardrail	Modified height of guardrail to reflect a 29" top-of-rail.
606-11A	Apr. 2006		Metal Guardrail – 7' (2.1 m) Wood Posts	New (Apr.-06)
	Dec. 2011		Metal Guardrail – 7' (2.1 m) Wood Posts	Modified height of guardrail to reflect a 29" top-of-rail.
606-11B	Apr. 2006		Metal Guardrail – 7' (2.1 m) Steel Posts	New (Apr.-06)
	Dec. 2011		Metal Guardrail – 7' (2.1 m) Steel Posts	Modified height of guardrail to reflect a 29" top-of-rail.
606-13A			Optional Terminal Section - ET-PLUS	
	Dec. 2011		Optional Terminal Section - ET-PLUS	Modified height of guardrail to reflect a 29" top-of-rail.
606-13B	Apr. 2006		Optional Terminal Section - SKT 350	Updated drawing per Manufacturer's drawings.
	Dec. 2011		Optional Terminal Section - SKT 350	Modified height of guardrail to reflect a 29" top-of-rail.
606-18			One-Way Departure Terminal Section	
	Dec. 2011		One-Way Departure Terminal Section	Modified height of guardrail to reflect a 29" top-of-rail.
606-24A	Jan. 2008		Bridge Approach Sections - Wood Posts	Add FBX22b and FNX22b designations to 7/8" dia. High Strength Bolts and Nuts. Add note referencing Dtl. Dwg. No. 606-80 for schedule of guardrail hardware.
	Dec. 2011		Bridge Approach Sections - Wood Posts	Modified height of guardrail to reflect a 29" top-of-rail.
606-24B	Jan. 2008		Bridge Approach Sections - Steel Posts	Add FBX22b and FNX22b designations to 7/8" dia. High Strength Bolts and Nuts. Add note referencing Dtl. Dwg. No. 606-80 for schedule of guardrail hardware. Correct spelling error.
	Dec. 2011		Bridge Approach Sections - Steel Posts	Modified height of guardrail to reflect a 29" top-of-rail.
606-25A			Skewed Bridge Approach Sections - Wood Posts	
606-25B			Skewed Bridge Approach Sections - Steel Posts	
606-26			Tapered Concrete Curb Detail	
606-27			Tapered Concrete Curb Detail	
606-30A			Impact Attenuator - Quadguard	
606-30B	Apr. 2006		Impact Attenuator - TRACC	Revised per modified design from Manufacturer.
606-30C	Apr. 2006		Impact Attenuator - QUEST	New (Apr.-06)
606-30D	May 2011		Impact Attenuator – Quadguard II	New (May 2011)

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Detailed Drawing No.	Suppl. Dwg. Effective Date	Suppl. Text Effective Date	Detailed Drawing Title	Remarks
606-31A			Impact Attenuator - Quadguard Assembly Details	
606-31B	Apr. 2006		Impact Attenuator - TRACC Assembly Details	Revised per modified design from Manufacturer.
606-31C	Apr. 2006		Impact Attenuator - QUEST Assembly Details	New (Apr.-06)
606-31D	May 2011		Impact Attenuator – Quadguard II Assembly Details	New (May 2011)
606-40	Jan. 2008		Cable Guardrail	Add "AND NUT(S) (FNX08a)" to 5/16" dia. Hook bolts note for Typical Installation Detail (Line Post & Post P3).
606-41	Jan. 2008		Cable Guardrail Terminal Anchor Assembly	Fix rebar callout on English drawing, fix dimension callout for Right Hand Anchor Unit on Metric drawing.
606-46	Jan. 2008		Intersecting Roadway Terminal Section	Add "SEE DETAIL RIGHT" under the soil plate callout and bearing plate callout.
	Dec. 2011		Intersecting Roadway Terminal Section	Modified height of guardrail to reflect a 29" top-of-rail.
606-50	Apr. 2006		Box Beam Guardrail	Updated minimum distance to obstacle note.
606-52			Box Beam One-Way Departure Terminal Section	
606-53	Jan. 2008		Box Beam Bridge Approach Sections – Types 1 & 2	Revise drawing title by adding " - Types 1 & 2". Remove dimension of holes in rail. Fix spelling errors. Set widening behind posts at 2' for all posts.
606-53A	Jan. 2008		Box Beam Bridge Approach Section – Type 3	New (Jan.-08)
606-54		Jan. 2008	Box Beam One-Way Bridge Departure Section	Correct spelling mistake on Standard Box Beam Rail (RBM01*) callout.
606-55A			Optional Box Beam Terminal Section - WY-BET	
606-55B			Optional Box Beam Terminal Section - BEAT	
	May 2011		Optional Box Beam Terminal Section - BEAT	Revised to show direction of Adjacent Traffic.
606-56A			WY-BET Box Beam Terminal Section Details	
606-56B	Jan. 2008		BEAT Box Beam Terminal Section Details	Add mounting height dimension.
	May 2011		BEAT Box Beam Terminal Section Details	Added note to place post breaker on traffic side of first post.
606-58	Jan. 2008		Box Beam to W-Beam Transition Section	Add rebar detail for concrete anchor post, add space to AASHTO designations.
606-60	Apr. 2006		Concrete Barrier Rail	Added minimum distance to obstacle note.
	Jan. 2008		Concrete Barrier Rail	Show tapered top on ends. Add spaces to AASHTO and ASTM designations. Add Alternate CBR Detail.
606-61	Apr. 2006		Alternate Concrete Barrier Rail	Added minimum distance to obstacle note.
606-61	Apr. 2006		Alternate Concrete Barrier Rail	Rescinded (Jan.-08)
606-62	Apr. 2006		Concrete Barrier Rail Anchors	Added minimum distance to obstacle note.
606-64	Jan. 2008		Tall Concrete Barrier Rail	Show tapered top on ends. Add spaces to AASHTO and ASTM designations. Add Alternate CBR Detail.
606-65			Alternate Tall Concrete Barrier Rail	Rescinded (Jan.-08)
606-66	Jan. 2008		Concrete Barrier Rail Transition	Add note about tapered end and reference to 606-60 and 606-64. Add spaces to AASHTO and ASTM designations. Correct reference to Standard Spec. Section 554.
606-68	Jan. 2008		Concrete Barrier Rail Terminal Section (One-Way Departure)	Add note about tapered end and reference to 606-60. Add spaces to AASHTO and ASTM designations.
606-80	Jan. 2008		Schedule of Guardrail Hardware	Add Box Beam Br. App. Sect. Type 3 Hardware and update entire hardware list for all revisions on 606-80 & 90 series drawings.
606-82	Jan. 2008		Guardrail Hardware	Add Box Beam Br. App. Sect. Type 3 Hardware, and FBX22b and FNX22b from Dtl. Dwg. 606-24A & 606-24B. Update drafting of Guardrail Bolt & Recessed Nut.
606-84			W-Beam Metal Guardrail Hardware	
606-88			W-Beam Metal Guardrail Hardware	
606-92	Apr. 2006		Cable Guardrail Hardware	Fixed several dimensions that were shown in metric on English drawing only.
606-94			Cable Guardrail Hardware	
606-95			Cable Guardrail Hardware	
606-97	Jan. 2008		Box Beam Guardrail Hardware	Add additional hardware for Box Beam Br. App. Sect. Type 3.
606-98	Jan. 2008		Box Beam Guardrail Hardware	Add additional hardware for Box Beam Br. App. Sect. Type 3. Update welding symbols.
606-99	Jan. 2008		Box Beam Guardrail Hardware	New (Jan.-08)

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Detailed Drawing No.	Suppl. Dwg. Effective Date	Suppl. Text Effective Date	Detailed Drawing Title	Remarks
607-00	Jan. 2008		Farm Fence	Add wildlife-friendly fence from Dtl. Dwg. 607-50.
	May 2011		Farm Fence	Removed wildlife friendly detail. Revised to show metal line post and metal panel post.
607-01	May 2011		Wildlife Friendly Fence 16" Bottom Wire Height	New (May 2011). Details Wildlife Friendly Fence Type 1, 2, & 3).
607-02	May 2011		Wildlife Friendly Fence 12" Bottom Wire Height	New (May 2011). Details Wildlife Friendly Fence Type 4, 5, & 6).
607-05			Interstate Fence	
607-10			Fencing Details	
	May 2011		Fencing Details	Revised to show tie offs on panel label. Added limit run lengths note.
607-15		Oct. 2008	Fencing Details	Add the following note: Install non-interstate fence on the Right-of-Way line. Do not damage survey monuments
607-20			Farm Entrance Gates	
607-25	Apr. 2006		Chain Link Fence	Added 8' (2.4 m) Chain Link Fence.
	May 2009		Chain Link Fence	Replace the top metal brace rail with galvanized steel cable.
	May 2011		Chain Link Fence	Expanded drawing to 11x17. Added connection details and material notes. Revised knuckled and barbed selvage labels.
607-30			8' (2.4 m) Wood Snow Fence W/ Anchor System #1	
607-35			12' (3.6 m) Wood Snow Fence W/ Anchor System #1	
607-40			Wood Snow Fence Anchor System #3 and #1 Details	
607-45			Wood Snow Fence Anchor System #2 Details	
607-50	Apr. 2006		Wildlife Fence	New (Apr.-06)
	Jan. 2008		Wildlife Fence	Delete the wildlife-friendly fence detail and move it into Dtl. Dwg. 607-00 as another item in the wire spacing table.
			Concrete Sidewalk	
608-15			New Construction Public Sidewalk Curb Ramps	
	May 2011		New Construction Public Sidewalk Curb Ramps	Updated per PROWAG guidelines.
608-20			Alterations to Existing Facilities - Public Sidewalk Curb Ramps	
	May 2011		Alterations to Existing Facilities – Public Sidewalk Curb Ramps	Updated per PROWAG guidelines.
608-25			Perpendicular Public Sidewalk Curb Ramps	
	May 2011		Perpendicular Public Sidewalk Curb Ramps.	Updated per PROWAG guidelines.
608-30			Parallel Public Sidewalk Curb Ramps	
608-35			Diagonal Perpendicular Public Sidewalk Curb Ramps	
	May 2011		Diagonal Perpendicular Public Sidewalk Curb Ramps	Updated per PROWAG guidelines.
608-40	May 2009		Detectable Warning Devices	Remove references to pre-cast panels, and include new dome dimensions and spacing. Change drawing name from "Truncated Domes" to "Detectable Warning Devices".
	May 2011		Detectable Warning Devices	Updated per PROWAG guidelines.
609-00			Concrete Valley Gutter	
	May 2011		Concrete Valley Gutter	Added a label to the concrete side stating "Include cost of fillet in valley gutter".
609-05	Jan. 2008		Miscellaneous Curbs	Add the application area per lineal foot (or meter) for the painted area designation "P".
	May 2011		Miscellaneous Curbs	Added note stating that the slope of the bottom of the curb and gutter should match the superelevation of the roadway. Revised the first note to read "When curb is used in conjunction with guardrail, use the 4" high type."
609-10	Jan. 2008		Median Concrete Curbs	Remove Type B curb. Add optional #4 rebar pin use and modified spacing. Add "M" behind AASHTO and ASTM designations in metric. Add a painted area designation "P" and the application area per lineal foot (or meter).
609-12	Jan. 2008		Concrete Median Caps	Update shape of curb from Type "B" to Type "A".
610-00			Topsoil and Seeding	
611-00			Cast-in-Place Cattle Guard	English
		May 2009	Cast-in-Place Cattle Guard	On the Metric drawing, correct 3 – 3660 sections = 11030 in Section A-A.
611-05			Cast-in-Place Cattle Guard Rebar Details	
611-10			Precast Concrete Base For Cattle Guard - Approaches	

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Detailed Drawing No.	Suppl. Dwg. Effective Date	Suppl. Text Effective Date	Detailed Drawing Title	Remarks
611-15			Precast Concrete Base For Cattle Guard	
611-20			Precast Concrete Cattle Guard Base Details	
613-06			Concrete Edge Protection For Metal Culverts	English
	Jan. 2008		Concrete Edge Protection For Metal Culverts	On Metric drawing change "152.4 x 152.4 x W18.71 mm ² Wire Mesh" notes to "152.4 x 152.4 x MW18.71 Wire Mesh".
613-08			Concrete Edge Protection For Concrete Culverts	English
	Jan. 2008		Concrete Edge Protection For Concrete Culverts	On Metric drawing change "152.4 x 152.4 x W18.71 mm ² Wire Mesh" notes to "152.4 x 152.4 x MW18.71 Wire Mesh".
613-10			Concrete Slope Protection	English
	Jan. 2008		Concrete Slope Protection	On Metric drawing change "152.4 x 152.4 x W18.71 mm ² Wire Mesh" notes to "152.4 x 152.4 x MW18.71 Wire Mesh".
613-12			Inlet and Outlet Headwalls For RCP and CMP Pipes	
613-14			Culvert Riprap	
613-16	Apr. 2006		Embankment Protection	Changed all references to "Geotextile" to "Permanent Erosion Control Geotextile." Added Geotextile installation and specification references. Change riprap key-in details. Add lapping detail showing geotextile installation.
		May 2009	Embankment Protection	Correct spelling of "SREAM" to "STREAM".
613-18	Jan. 2008		Concrete Drainage Chute	On Metric drawing change "152.4 x 152.4 x W18.71 mm ² Wire Mesh" note to "152.4 x 152.4 x MW18.71 Wire Mesh".
		May 2009	Drainage Chutes	Convert this drawing to an 11 x 17 and add Turf Reinforcement Mat and Riprap Drainage Chute detail. Change drawing name from "Concrete Drainage Chute" to "Drainage Chutes".
615-02			Trashguard For Concrete Irrigation Inlet and Outlet Transition Structures	
615-04			Standard Concrete Irrigation Division Boxes	
615-06			Concrete Irrigation Inlet and Outlet Transition For RCP and CSP Pipes	Metric
	Jan. 2008		Concrete Irrigation Inlet and Outlet Transition For RCP and CSP Pipes	On English drawing, swap last two columns in table for RCP culverts [CL "DD" CONC. (C. Y.), AND #4 REBAR (LB.)]
647-00		Oct. 2008	Road Closure Gate	Rescinded (Oct.-08)
647-02		Oct. 2008	Road Closure Gate Details	Rescinded (Oct.-08)
647-04		Oct. 2008	Road Closure Gate Pivot Assembly	Rescinded (Oct.-08)
647-06		Oct. 2008	Road Closure Gate Pivot Assembly Details	Rescinded (Oct.-08)
647-08		Oct. 2008	Four Bolt Slip Base	Rescinded (Oct.-08)
647-10		Oct. 2008	Four Bolt Slip Base Details	Rescinded (Oct.-08)
618-00	Apr. 2006		Barricades, Channelizing Devices and Object Markers	Changed drawing title. Added Type 2 Object Markers and reworked notes relating to Vertical Panels and Object Markers some. Removed Post-Mounted Vertical Panels. Added signs on barricades note. Re-arranged drawing onto 11x17.
		Sept. 2010	Channelizing Devices and Object Markers	Changed drawing title. Moved Barricades to new drawing 618-03.
618-01			Construction Sign Details	
618-02			Portable Sign Support Assembly	
618-03	Sept. 2010		Barricades	New Drawing. Moved Barricades from 618-00 and added details for rail stripes.
618-04	Apr. 2006		Two-Lane Construction Project	Modified "Normal Posted Speed Limit Sign" notes and drafting. Also removed "XX = Speed determined by the engineer" note.
618-08	Apr. 2006		Two-Lane Construction Project Work Zones	Modified "Normal Posted Speed Limit Sign" notes and drafting.
		Apr. 2012	Two-Lane Construction Project Work Zones	Updated to reflect 500' distances between work zone and Begin/End Work Zone signs.
618-10	Apr. 2006		Two-Lane Construction Project Seal Coat	Modified "Normal Posted Speed Limit Sign" notes and drafting.
618-12	Apr. 2006		Two-Lane Construction Project Lane Closure – Flagger Controlled	Added "Flagger Controlled" to title. Modified "Normal Posted Speed Limit Sign" notes and drafting. Also added "XX = Speed determined by the engineer" note.

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Detailed Drawing No.	Suppl. Dwg. Effective Date	Suppl. Text Effective Date	Detailed Drawing Title	Remarks
	Apr. 2012		Two-Lane Construction Project Lane Closure – Flagger Controlled	Updated to reflect 500' distances between work zone and Begin/End Work Zone signs.
618-13	Apr. 2006		Two-Lane Construction Project Lane Closure – Signal Controlled	New (Apr.-06)
	Apr. 2012		Two-Lane Construction Project Lane Closure – Signal Controlled	Updated to reflect 500' distances between work zone and Begin/End Work Zone signs.
618-14			Two-Lane Equipment Entrances	
618-16	Apr. 2006		Two-Lane Equipment Entrances	Modified "Normal Posted Speed Limit Sign" notes and drafting.
	Apr. 2012		Two-Lane Equipment Entrances	Updated to reflect 500' distances between work zone and Begin/End Work Zone signs.
618-18	Apr. 2006		Two-Lane Construction Project Detour	Modified "Normal Posted Speed Limit Sign" notes and drafting. Also Changed end detour barricade stripes to be in correct direction and changed designation to B(III)-L. Changed the M4-10 Detour Arrow sign on the barricade to a generic W1-6 arrow. Moved signs on barricades to above the barricade. Added the W24-1 diversion arrow for when tangent distance is less than 600' (180 m)
	Apr. 2012		Two-Lane Construction Project Detour	Updated to reflect 500' distances between work zone and Begin/End Work Zone signs.
618-20	Apr. 2006		Divided Four-Lane Construction Project	Modified "Normal Posted Speed Limit Sign" notes and drafting. Also removed "XX = Speed determined by the engineer" note.
	Apr. 2012		Divided Four-Lane Construction Project	Updated to reflect 500' distances between work zone and Begin/End Work Zone signs.
618-21	Apr. 2006		Temporary Entrance Ramp Median Crossing	Added note about filling any existing Rumble Strips where traffic will cross with PMS. Moved signs on barricades to above the barricade. Added "Raised Rigid Pavement Markers Type I or II" and associated notes. Added color designations to these markers.
	Sept. 2010		Temporary Entrance Ramp Median Crossover	Changed drawing title. Added dimensions for crossover. Taper rates were revised to 12:1. Note 4 was revised to refer to detailed drawing 618-03.
618-22	Apr. 2006		Temporary Exit Ramp Median Crossing	Changed barricade stripes to be in correct direction and changed designation to B(III)-L. Added note about filling any existing Rumble Strips where traffic will cross with PMS. Moved signs on barricades to above the barricade. Added "Raised Rigid Pavement Markers Type I or II" and associated notes. Added color designations to these markers.
	Sept. 2010		Temporary Exit Ramp Median Crossover	Changed drawing title. Added dimensions for crossover. Taper rates were revised to 12:1. Note 5 was revised to refer to detailed drawing 618-03.
618-24	Apr. 2006		Divided Four-Lane Construction Project Work Zones	Modified "Normal Posted Speed Limit Sign" notes and drafting.
	Apr. 2012		Divided Four-Lane Construction Project Work Zones	Updated to reflect 500' distances between work zone and Begin/End Work Zone signs.
618-27	Apr. 2006		Divided Four-Lane Equipment Entrances	Modified "Normal Posted Speed Limit Sign" notes and drafting.
	Sept. 2010		Divided Four-Lane Equipment Entrance	Changed drawing title. Eliminated the portion of the drawing showing "Equipment Entrance with Flagger".
	May 2011		Divided Four-Lane Equipment Entrance	Added Equipment Entrance with Flagger detail.
	Apr. 2012		Divided Four-Lane Equipment Entrances	Updated to reflect 500' distances between work zone and Begin/End Work Zone signs.
618-28	Apr. 2006		Divided Four-Lane Median Crossings	Modified "Normal Posted Speed Limit Sign" notes and drafting.
	Sept. 2010		Divided Four-Lane Median Crossing	Changed drawing title. Eliminated the portion of the drawing showing "Median Crossing with Flagger".
	May 2011		Divided Four-Lane Median Crossing	Added Median Crossing with Flagger detail.
	Apr. 2012		Divided Four-Lane Median Crossings	Updated to reflect 500' distances between work zone and Begin/End Work Zone signs.

MDT Detailed Drawings – February 2005 Edition continued...

Detailed Drawing No.	Suppl. Dwg. Effective Date	Suppl. Text Effective Date	Detailed Drawing Title	Remarks
618-30	Apr. 2006		Temporary Four-Lane to Two-Lane Median Crossing	Changed the first barricade sign to an arrow. Added note about filling any existing Rumble Strips where traffic will cross with PMS. Reduced the spacing of the Two-Way traffic signs from 2 miles (3.2 km) to 1 mile (1.6 km.) Repeat W7-3a's every 3 miles (4.8 km) note added. Moved signs on barricades to above the barricade. Added "Raised Rigid Pavement Markers Type I or II" and associated notes. Added color designations to these markers. Added "L" designation to W1-4.
	Sept. 2010		Temporary Four-Lane to Two-Lane Median Crossover	Changed drawing title. Added dimensions for crossover. Taper rates were revised to 12:1. Note 7 was revised to refer to detailed drawing 618-03.
618-32	Apr. 2006		Temporary Two-Lane to Four-Lane Median Crossing	Modified "Normal Posted Speed Limit Sign" notes and drafting. Added note about filling any existing Rumble Strips where traffic will cross with PMS. Reduced the spacing of the Two-Way traffic signs from 2 miles (3.2 km) to 1 mile (1.6 km). Repeat W7-3a's every 3 miles (4.8 km) note added. Added "Raised Rigid Pavement Markers Type I or II" and associated notes. Added color designations to these markers. Changed "L" designation on W1-4 to "R", as it was incorrect.
	Sept. 2010		Temporary Two-Lane to Four-Lane Median Crossover	Changed drawing title. Revised dimensions on Additional Surfacing Detail. Taper rates were revised to 12:1.
618-34	Apr. 2006		Short Duration Crew Signing	Changed the generic Normal Posted Speed Limit Sign to say "Speed Limit XX Trucks XX".
618-36	Apr. 2006		Short-Term Stationary Crew Signing	Changed the generic Normal Posted Speed Limit Sign to say "Speed Limit XX Trucks XX".
	Apr. 2012		Short-Term Stationary Crew Signing	Updated to reflect 500' distances between work zone and Begin/End Work Zone signs.
618-M1	Apr. 2006		Maintenance Guideline For Short-Term Two-Lane Crack Sealing Work Zone	Changed the generic Normal Posted Speed Limit Sign to say "Speed Limit XX Trucks XX". Reduced the space at the end of the work area from the End Work Zone sign to the Speed Limit sign from 1400' (420m) to 250' (75 m). Changed Note #4 to place additional flagger ahead sign between R2-1 & W3-4 signs.
	Apr. 2012		Maintenance Guideline For Short-Term Two-Lane Crack Sealing Work Zone	Updated to reflect 500' distances between work zone and Begin/End Work Zone signs.
618-M2	Apr. 2006		Maintenance Guideline For Short-Term Two-Lane Chip Seal & Overlay (Piloted Traffic)	Changed the generic Normal Posted Speed Limit Sign to say "Speed Limit XX Trucks XX". Reduced the space at the end of the work area from the End Work Zone sign to the Speed Limit sign from 1400' (420 m) to 250' (75 m). Changed Note #3 to place additional flagger ahead.
	Apr. 2012		Maintenance Guideline For Short-Term Two-Lane Chip Seal & Overlay (Piloted Traffic)	Updated to reflect 500' distances between work zone and Begin/End Work Zone signs.
618-M3	Apr. 2006		Maintenance Guideline For Short-Term Lane Closure on Interstate	Changed the generic Normal Posted Speed Limit Sign to say "Speed Limit XX Trucks XX".
	Apr. 2012		Maintenance Guideline For Short-Term Lane Closure on Interstate	Updated to reflect 500' distances between work zone and Begin/End Work Zone signs.
618-M4	Dec. 2011		Mobile Operations	New (December 2011)
618-U01	May 2009		Lane Closure - Flagger Controlled (Urban Two-Lane, Two-Way Road)	New (May-09)
618-U02	May 2009		Work Zone Occupies One Half of Road (Low Speed Urban Two-Lane, Two-Way Road)	New (May-09)
618-U03	May 2009		Work Zone in Center of Road (Urban Two-Lane, Two-Way Road)	New (May-09)
618-U05	May 2009		Sidewalk Closures and Bypass Walkway	New (May-09)
618-U10	May 2009		Crosswalk Closures and Pedestrian Detours	New (May-09)
618-U15	May 2009		Lane Closure (Urban Two-Lane, Two-Way Road with Two-Way Left Turn Lane)	New (May-09)
618-U16	May 2009		Turn Lane Closure (Urban Two-Lane, Two-Way Road with Two-Way Left Turn Lane)	New (May-09)
618-U20	May 2009		Right Lane Closure (Urban Multi-Lane, Undivided Road)	New (May-09)

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Detailed Drawing No.	Suppl. Dwg. Effective Date	Suppl. Text Effective Date	Detailed Drawing Title	Remarks
618-U25	May 2009		Left Lane Closure (Low Speed Urban Multi-Lane, Undivided Road)	New (May-09)
618-U30	May 2009		Left Lane Closures (Low Speed Urban Multi-Lane, Undivided Road)	New (May-09)
618-U35	May 2009		Double Lane Closure (Urban Multi-Lane, Undivided Road)	New (May-09)
618-U40	May 2009		Right Lane Closure - Work Zone Beyond Intersection (Urban Multi-Lane, Undivided Road)	New (May-09)
618-U45	May 2009		Left Lane Closure - Work Zone Beyond Intersection (Urban Multi-Lane, Undivided Road)	New (May-09)
618-U50	May 2009		Double Lane Closure at Intersection (Urban Multi-Lane, Undivided Road)	New (May-09)
618-U60	May 2009		Left Lane Closure (Urban Low Speed, Multi-Lane Undivided Road with Two-Way Left Turn Lane)	New (May-09)
619-00	Apr. 2006		Sign Clearances and Mounting Heights	Updated Horizontal Curve Adjustment table on English Dwg. per 2002 Roadside Design Guide, no changes to metric.
619-02			Typical Rural and Urban Approaches	
619-04			Aluminum Sheet Increment Sign Construction Details	
619-06			Plywood Sheet Increment Guide Sign Construction Details	
619-08			Guide Sign Clearance and Mounting Details	
619-10			Sheet Aluminum Overlay	
619-12			Tubular Sign Post Details	
619-13			Breakaway and Foundation Details For Multiple Guide Sign Supports	
619-16			Typical Steel Post Mounting Details	
619-18			Cantilever Type Sign Support Details For Sidewalk Areas	
619-19			Structural Steel Post Sign Mounting Details	
619-20			Treated Wood Pole Sign Mounting and Support Details	
619-21			Treated Wood Pole Sign Mounting Details	
619-22			Treated Wood Pole Optional Backbrace	
619-24			Chevron Mounting Details	
619-26			Special Design Route Marker Panels and Shields	
619-30			Sign Hinge Details	
619-32	Apr. 2006		Milepost (Reference Post) Details	Increased embedment depth from 2' (0.6 m) to 3' (0.9 m).
619-34			Delineator Details	Metric
	Apr. 2006		Delineator Details	Updated degree of curve to radii on English, no changes to metric.
	Jan. 2008		Delineator Details	Update English drawing Radii to match RDM conversions in Fig. 9.2C.
619-36	Apr. 2006		Delineator Placement Details	Added 2 LB./FT. (3 kg/m) MAX. post size to notes. Updated degree of curve to radii on English.
	Jan. 2008		Delineator Placement Details	Revise position delineator faces note for clarity. Update English Radii to match RDM conversions in Fig. 9.2C.
619-38	Apr. 2006		Object Marker Design and Placement Details For Obstructions Adjacent to or Within Highways	Added 2 LB./FT. (3 kg/m) MAX. Type 2 Object Marker post size to notes. Changed mounting height of Type 3's to "4'-0" (1.2 m) Min."
619-40			Flexible Delineators	
619-42	May 2009		Permanent Barricade Design Details	Add note from 618-00 to show sign mounting meeting NCHRP 350. Remove "B(III) - L & R Shown" under BILL BARRICADE heading.
619-44			Installation Date Tags	
620-00			Pavement Markings (Letters)	
620-05			Pavement Markings (Numbers)	
620-10			Pavement Markings (Words)	
*620-15			Pavement Markings (Arrows)	
620-20			Pavement Markings (Symbols)	
	Apr. 2012		Pavement Markings (Symbols)	Updated arrow dimensions to match the current MUTCD and SHSM publications
621-00			Manhole and Valve Box Adjustment Details	
621-05			Optional Manhole and Valve Box Adjustment Details	

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Detailed Drawing No.	Suppl. Dwg. Effective Date	Suppl. Text Effective Date	Detailed Drawing Title	Remarks
623-10	May 2011		Approach Mailbox Turnout	New (May 2011), Renumbered from 203-10. Removed ADT note.
623-15	May 2011		Mailbox Turnout	New (May 2011), Renumbered from 203-15. Removed ADT note.
623-20	May 2011		Mailbox Detail	New (May 2011), Renumbered from 900-05.
623-25	May 2011		Optional Mailbox Detail	New (May 2011), Renumbered from 900-10.
623-30	May 2011		Temporary Mailbox Support	New (May 2011)
623-35	May 2011		Temporary Mailbox Support Bracket Details	New (May 2011)
900-00			U-Turn Median Openings on Controlled Access Highways	
900-05	Jan. 2008		Mailbox Detail	Add a note stating "For multiple mailbox installations, space the mailbox supports a minimum distance of 42 inches (1.05 meters) apart."
900-05	Jan. 2008		Mailbox Detail	Rescinded (May 2011), Modified and changed to 623-20.
900-10			Optional Mailbox Detail	Rescinded (May 2011), Modified and changed to 623-25.
900-15	Apr. 2006		Adjustable Monument Box	New (Apr.-06)

**DETAILED DRAWINGS SUPPLEMENTAL TEXT REVISIONS
(No Printing Release of the Detailed Drawing)
(Rev. April 2014)**

Detailed Drawing No.	Suppl. Text Effective Date	Supplemental Text Revision
208-16	May 2009	Change "REMOVAL ALL DIKES" to "REMOVE ALL DIKES"
208-26	May 2009	Reword "ALWAYS CONSIDER VEGETATED BUFFER BUFFERS" to "ALWAYS CONSIDER VEGETATED BUFFERS"
208-32A	May 2009	Change "GRAVEL JACKER" to "GRAVEL JACKET"
208-32B	May 2009	Change "GRAVEL JACKER" to "GRAVEL JACKET"
208-46A	May 2009	Change "FOR FLOWS LESS THEN 0.5 CFS (0.014 m ³ /S)" to "FOR FLOWS LESS THAN 0.5 CFS (0.014 m ³ /S)"
552-06	Jan. 2008	Remove mention of concrete pipes.
552-08	Jan. 2008	Remove mention of concrete pipes.
604-03	May 2009	Add the following note: For combination manhole/inlets where steps are required, do not use Type II combination inlets for manhole depths greater than 4 feet (1.2 meters).
604-04	May 2009	Add the following note: When combination manhole depths are greater than 4 feet, offset the access hole over the manhole steps.
606-54	Jan. 2008	Correct spelling mistake on Standard Box Beam Rail (RBM01*) callout.
607-15	Oct. 2008	Add the following note: Install non-interstate fence on the Right-of-Way line. Do not damage survey monuments.
611-00	May 2009	On the Metric drawing, correct 3 – 3660 sections = 11030 in Section A-A.
613-16	May 2009	Correct spelling of "SREAM" to "STREAM".
617-00	Oct. 2008	Rescinded (Oct.-08)
617-02	Oct. 2008	Rescinded (Oct.-08)
617-04	Oct. 2008	Rescinded (Oct.-08)
617-06	Oct. 2008	Rescinded (Oct.-08)
617-08	Oct. 2008	Rescinded (Oct.-08)
617-10	Oct. 2008	Rescinded (Oct.-08)
*618-M3	Apr. 2014	Remove the word "OPTIONAL" from the drawing regarding the Arrow Board. Delete "(IF USED)" from Note 4.