



STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION  
NASHVILLE, TENNESSEE 37243-0350

**INSTRUCTIONAL BULLETIN No. 04-16**

Regarding List of Current Revision Dates  
For Metric Standard Roadway Drawings

Attached hereto is a copy of the standard list with revised dates. The new, revised, or voided drawings are **effective** for the **December 3, 2004 letting**. The design managers responsible for the project may use any of these drawings in the September 3, 2004 or October 29, 2004 lettings. If they are used prior to the December 3, 2004 letting, they must be indicated to be printed with the plans. They shall be identified on lower left hand corner of the index sheet - "**To be printed with the plans.**"

Current instructional bulletin nos. IB04-09, IB04-10, and IB04-11 are to continue to be printed with the plans until the December 3, 2004 letting when the new standards take effect. At that time, instructional bulletin nos. IB03-10, IB04-09, IB04-10, and IB04-11 will be voided.

**The new drawings are underlined in their entirety and the revision dates of the revised drawings are underlined. If old drawing name has been changed, it will be underlined.**

The following are revised drawings:

RDM-L-3, RDM-L-4, DM-CB-12SE, DM-CB-14SE, DM-CB-25SE, DM-CB-31R, DM-CB-31SE, DM-CB-39SE, DM-CB-41SE, DM-CB-44SE, DM-CB-46SE, SM-GR-11, SM-GR-12, SM-GR-13, SM-GR-15, SM-GR-19, SM-GR-21, SM-GR-27, SM-GR-32, SM-GR-34, SM-GR-35, SM-GR-36, TM-M-1, TM-M-2, TM-M-5, TM-S-10, TM-S-12, TM-WZ-11, TM-WZ-12, TM-WZ-13, TM-WZ-14, TM-WZ-15, TM-WZ-16, TM-WZ-17, TM-WZ-18, TM-WZ-19, TM-WZ-30, TM-WZ-31, TM-WZ-35, TM-WZ-40, TM-WZ-41, TM-WZ-42, TM-WZ-50, TM-WZ-51, TM-WZ-52, TM-WZ-53, TM-WZ-54, ECM-STR-1, ECM-STR-2, ECM-STR-3D, ECM-STR-4, ECM-STR-4A, ECM-STR-5, ECM-STR-6, ECM-STR-13, ECM-STR-19, ECM-STR-25, ECM-STR-31, ECM-STR-36, INDEX OF STANDARD DRAWINGS sheets 1, 2, 3, and 4, AND TITLE SHEET.

The following are new drawings:

RDM-L-5, RDM-L-6, SM-GR-13A, SM-GR-19A, TM-L-2, ECM-STR-3A, ECM-STR-3B, ECM-STR-3C, ECM-STR-40, ECM-STR-41, ECM-STR-41A, ECM-STR-42, ECM-STR-42A, ECM-STR-43, ECM-STR-43A, ECM-STR-44, ECM-STR-44A, ECM-STR-45, ECM-STR-45A, ECM-STR-46, ECM-STR-46A, ECM-STR-47, ECM-STR-47A, ECM-STR-48, ECM-STR-48A, ECM-STR-49, ECM-STR-49A, AND INDEX OF STANDARD DRAWINGS sheet 5.

The following are voided drawings:

ECM-STR-3

A handwritten signature in black ink, appearing to read "Jeff C. Jones", is positioned above a horizontal line.

Jeff C. Jones, C. E. Director  
Design Division

JCJ:mbd  
Attachment  
July 8, 2004

## CURRENT REVISION DATES STANDARD ROADWAY AND STRUCTURE DRAWINGS

<u>Drawing Number</u>	<u>Current Revision Date</u>	<u>Standard Title</u>
	<u>04-15-04</u>	TITLE SHEET
	<u>07-15-04</u>	INDEX OF STANDARD METRIC DRAWINGS - SHEET NO. 1
	<u>07-15-04</u>	INDEX OF STANDARD METRIC DRAWINGS - SHEET NO. 2
	<u>07-15-04</u>	INDEX OF STANDARD METRIC DRAWINGS - SHEET NO. 3
	<u>07-15-04</u>	INDEX OF STANDARD METRIC DRAWINGS - SHEET NO. 4
	<u>07-15-04</u>	<u>INDEX OF STANDARD METRIC DRAWINGS - SHEET NO. 5</u>

**ROADWAY DESIGN STANDARDS**

RDM-A-1	12-18-99	STANDARD ABBREVIATIONS
RDM-L-1	07-29-96	STANDARD LEGEND
RDM-L-2	09-05-01	STANDARD LEGEND FOR UTILITY INSTALLATIONS
RDM-L-3	<u>04-15-04</u>	STANDARD LEGEND FOR SIGNALIZATION AND LIGHTING
RDM-L-4	<u>04-15-04</u>	<u>STANDARD LEGEND FOR SIGNALIZATION AND LIGHTING</u>
<u>RDM-L-5</u>	<u>04-15-04</u>	<u>STANDARD LEGEND FOR EROSION AND SEDIMENT CONTROL</u>
<u>RDM-L-6</u>	<u>04-15-04</u>	<u>STANDARD LEGEND FOR EROSION AND SEDIMENT AND CONTROL</u>
RDM-S-11	03-31-03	DESIGN AND CONSTRUCTION DETAILS FOR ROADSIDE SLOPE DEVELOPMENT
RDM-S-11A	03-31-03	ROADSIDE DITCH DETAILS FOR DESIGN AND CONSTRUCTION
RDM-SA-1	03-31-03	SAFETY APPROACH TO UNDERPASSES GRADING DESIGN & SLOPE PROTECTION
RDM-SE-2	11-01-95	URBAN SUPERELEVATION DETAILS
RDM-SE-3	11-01-95	RURAL SUPERELEVATION DETAILS
RDM-TS-1	03-31-03	DESIGN STANDARDS FOR LOCAL ROADS AND STREETS
RDM-TS-2	03-31-03	DESIGN STANDARDS FOR COLLECTOR ROADS AND STREETS
RDM-TS-2A	03-31-03	DESIGN STANDARDS FOR 4-6 LANE COLLECTOR HIGHWAYS WITH DEPRESSED MEDIANS
RDM-TS-2B	03-31-03	DESIGN STANDARDS FOR 4-6 LANE COLLECTOR HIGHWAYS WITH FLUSH MEDIANS
RDM-TS-3	03-31-03	DESIGN STANDARDS FOR 2-LANE ARTERIAL HIGHWAYS
RDM-TS-3A	03-31-03	DESIGN STANDARDS 4-6 LANE ARTERIAL HIGHWAYS WITH DEPRESSED MEDIANS

RDM-TS-3B	03-31-03	DESIGN STANDARDS 4-6 LANE ARTERIALS WITH INDEPENDENT ROADWAYS
RDM-TS-3C	03-31-03	DESIGN STANDARDS 4-6 LANE ARTERIAL HIGHWAYS WITH FLUSH MEDIANS
RDM-TS-4	03-31-03	DESIGN STANDARDS 1 & 2 LANE RAMPS
RDM-TS-5	03-31-03	DESIGN STANDARDS FREEWAYS WITH DEPRESSED MEDIANS
RDM-TS-5A	03-31-03	DESIGN STANDARDS FREEWAYS WITH INDEPENDENT ROADWAYS
RDM-TS-5B	03-31-03	DESIGN STANDARDS FREEWAYS WITH MEDIAN BARRIER
RDM-TS-6	03-31-03	TYPICAL CURB AND GUTTER SECTIONS WITH SHOULDER
RDM-TS-6A	03-31-03	TYPICAL CURB AND GUTTER SECTIONS WITHOUT SHOULDER
RDM-TS-7	03-31-03	DESIGN STANDARDS 2-LANE HIGHWAY WITH CONTINUOUS 2-WAY LEFT-TURN LANE
RDM-TS-7A	03-31-03	DESIGN STANDARDS 2-LANE CURB & GUTTER WITH CONTINUOUS 2-WAY LEFT-TURN LANE
RDM-UD-3	09-05-96	UNDERDRAIN DETAILS
RDM-UD-4	11-11-02	UNDERDRAIN LATERAL DETAILS
RDM-UD-6	11-01-95	LATERAL UNDERDRAIN ENDWALL DETAIL FOR 1:1 & 2:1 SLOPES
RDM-UD-7	11-01-95	LATERAL UNDERDRAIN ENDWALL DETAIL FOR 3:1 & 4:1 SLOPES
RDM-UD-8	11-01-95	LATERAL UNDERDRAIN ENDWALL DETAIL FOR 5:1 SLOPES
RDM-UD-9	11-01-95	LATERAL UNDERDRAIN ENDWALL DETAIL FOR 6:1 SLOPES
RDM01-S-11	04-04-03	DESIGN AND CONSTRUCTION DETAILS FOR ROADSIDE SLOPE DEVELOPMENT
RDM01-S-11A	10-15-02	ROADSIDE DITCH DETAILS FOR DESIGN AND CONSTRUCTION
RDM01-S-11B	10-15-02	DESIGN AND CONSTRUCTION DETAILS FOR ROCK CUT SLOPE AND CATCHMENT

RDM01-S-12	10-15-02	CLEAR ZONE CRITERIA
RDM01-SA-1	10-15-02	SAFETY APPROACH TO UNDERPASSES GRADING DESIGN AND SLOPE PROTECTION
RDM01-SE-2	10-15-02	URBAN SUPERELEVATION DETAILS
RDM01-SE-3	10-15-02	RURAL SUPERELEVATION DETAILS
RDM01-TS-1	10-15-02	DESIGN STANDARDS FOR LOCAL ROADS AND STREETS
RDM01-TS-2	10-15-02	DESIGN STANDARDS FOR COLLECTOR ROADS AND STREETS
RDM01-TS-2A	10-15-02	DESIGN STANDARDS 4 AND 6 LANE COLLECTOR HIGHWAYS WITH DEPRESSED MEDIANS
RDM01-TS-2B	10-15-02	DESIGN STANDARDS 4 AND 6 LANE COLLECTOR HIGHWAYS WITH FLUSH MEDIANS
RDM01-TS-3	10-15-02	DESIGN STANDARD FOR 2-LANE ARTERIAL HIGHWAYS
RDM01-TS-3A	10-15-02	DESIGN STANDARDS 4 AND 6 LANE ARTERIAL HIGHWAYS WITH DEPRESSED MEDIANS
RDM01-TS-3B	10-15-02	DESIGN STANDARDS 4 AND 6 LANE ARTERIALS WITH INDEPENDENT ROADWAYS
RDM01-TS-3C	10-15-02	DESIGN STANDARDS 4 AND 6 LANE ARTERIAL HIGHWAYS WITH FLUSH MEDIANS
RDM01-TS-4	10-15-02	DESIGN STANDARDS 1 AND 2 LANE RAMPS
RDM01-TS-5	10-15-02	DESIGN STANDARDS FREEWAYS WITH DEPRESSED MEDIANS
RDM01-TS-5A	10-15-02	DESIGN STANDARDS FREEWAYS WITH INDEPENDENT ROADWAYS
RDM01-TS-5B	10-15-02	DESIGN STANDARDS FREEWAYS WITH MEDIAN BARRIER
RDM01-TS-6	10-15-02	TYPICAL CURB AND GUTTER SECTIONS WITH SHOULDER
RDM01-TS-6A	10-15-02	TYPICAL CURB AND GUTTER SECTIONS WITHOUT SHOULDER
RDM01-TS-7	10-15-02	DESIGN STANDARDS 2-LANE HIGHWAY WITH CONTINUOUS 2-WAY LEFT-TURN LANE
RDM01-TS-7A	10-15-02	DESIGN STANDARDS 2-LANE CURB AND GUTTER WITH CONTINUOUS 2-WAY LEFT-TURN LANE

**DRAINAGE - CULVERTS AND ENDWALL**

DM-FLU-1	11-01-95	FLUME DETAILS
DM-PB-1	10-26-96	CLASS "B" BEDDING AND CULVERT EXCAVATION
DM-PE-1	11-01-95	TYPE "A" CONCRETE ENDWALL (900 mm TO 1950 mm - 2:1 SLOPE)
DM-PE-3BA	03-30-00	CONCRETE ENDWALL TYPE "U" WITH STEEL PIPE GRATE (FOR 450 mm THRU 1200 mm PIPES) (3:1 SLOPE)
DM-PE-3BB	05-27-01	CONCRETE ENDWALL TYPE "U" WITH STEEL PIPE GRATE (FOR 450 mm THRU 1200 mm PIPES) (3:1 SLOPE)
DM-PE-4	01-19-97	STRAIGHT, "L" AND "U" TYPE CONCRETE ENDWALL
DM-PE-4BA	03-30-00	CONCRETE ENDWALL TYPE "U" WITH STEEL PIPE GRATE (FOR 450 mm THRU 1200 mm PIPES) (4:1 SLOPE)
DM-PE-4BB	05-27-99	CONCRETE ENDWALL TYPE "U" WITH STEEL PIPE GRATE (FOR 450 mm THRU 1200 mm PIPES) (4:1 SLOPE)
DM-PE-5	05-27-01	WINGWALLS HORIZONTAL OVAL CONCRETE PIPES
DM-PE-6	05-27-01	STRAIGHT ENDWALLS VERTICAL OVAL CONCRETE PIPES
DM-PE-6A	05-27-01	WINGWALLS VERTICAL OVAL CONCRETE PIPES
DM-PE-6BA	03-30-00	CONCRETE ENDWALL TYPE "U" WITH STEEL PIPE GRATE (FOR 450 mm THRU 1200 mm PIPES) (6:1 SLOPE)
DM-PE-6BB	05-27-01	CONCRETE ENDWALL TYPE "U" WITH STEEL PIPE GRATE (FOR 450 mm THRU 1200 mm PIPES) (6:1 SLOPE)
DM-PE-7	05-27-01	STRAIGHT ENDWALLS FLATBASE CONCRETE PIPES
DM-PE-7A	05-27-01	WINGWALLS FLATBASE CONCRETE PIPES
DM-PE-8	01-19-97	PIPE AND PIPE-ARCH CULVERT WITH BEVELED ENDS AND RIP-RAP
DM-PE-9	11-01-95	CONCRETE ENDWALLS TYPE "B" (FOR ROUND & SIDE TAPERED INLETS) - PIPE SIZES 375 mm TO 1950 mm, ALL SKEWS, 2:1 AND 4:1 SLOPES

DM-PE-9A	11-01-95	CONCRETE ENDWALLS TYPE "B" GENERAL DIMENSIONS AND QUANTITIES, ROUND PIPE SIZES 375 mm TO 1950 mm, ALL SKEWS, 2:1 AND 4:1 SLOPES
DM-PE-9B	11-01-95	CONCRETE ENDWALLS TYPE "B" GENERAL DIMENSIONS AND QUANTITIES, SIDE TAPERED INLETS, SIZES 375 mm TO 1950 mm, ALL SKEWS, 2:1 AND 4:1 SLOPES
DM-PE-9C	11-01-95	CONCRETE ENDWALLS TYPE "B" BILL OF STEEL FOR CONCRETE ROUND AND SIDE TAPERED INLETS-2:1 SLOPES, PIPE SIZES 375 mm TO 1950 mm, ALL SKEWS
DM-PE-9D	11-01-95	CONCRETE ENDWALLS TYPE "B" BILL OF STEEL FOR CONCRETE ROUND AND SIDE TAPERED INLETS-4:1 SLOPES PIPE SIZES 375 mm TO 1950 mm, ALL SKEWS
DM-PE-9E	11-01-95	CONCRETE ENDWALLS TYPE "B" BILL OF STEEL FOR ROUND AND SIDE TAPERED INLETS-2:1 SLOPES PIPE SIZES 375 mm TO 1950 mm, ALL SKEWS
DM-PE-9F	11-01-95	CONCRETE ENDWALLS TYPE "B" BILL OF STEEL FOR ROUND AND SIDE TAPERED INLETS-4:1 SLOPES PIPE SIZES 375 mm TO 1950 mm, ALL SKEWS
DM-PG-3	04-15-97	FERROUS AND ALUMINUM CORRUGATED METAL PIPE
DM-PG-4	01-19-97	FERROUS AND ALUMINUM CORR. METAL PIPE-ARCHES
DM-PO-1	05-27-01	OVAL & FLAT BASE CONCRETE CULVERT PIPE
DM-PS-1	11-01-95	STRUTTING DETAILS FOR CORRUGATED METAL & STRUCTURAL PLATE ROUND PIPE
DM-SEW-6DA	05-27-01	CONCRETE ENDWALL TYPE "SD" WITH STEEL PIPE GRATE (FOR 375 mm THRU 1200 mm PIPES) (6:1 SLOPE)
DM-SEW-6DB	11-01-95	CONCRETE ENDWALL TYPE "SD" WITH STEEL PIPE GRATE (FOR 375 mm THRU 1200 mm PIPES) (6:1 SLOPE)
DM-SEW-6DC	05-27-01	CONCRETE ENDWALL TYPE "SD" WITH STEEL PIPE GRATE (FOR 450 THRU 750 mm PIPES) (6:1 SLOPE)
DM-SEW-6DD		CONCRETE ENDWALL TYPE "SD" WITH STEEL PIPE GRATE (FOR 450 mm THRU 750 mm PIPES) (6:1 SLOPE)
DM-SEW-12D	04-15-00	CONCRETE ENDWALL TYPE "SD" WITH STEEL PIPE GRATE (FOR 375 mm AND 450 mm PIPES) (12:1 SLOPE)



**DRAINAGE - CATCH BASINS AND MANHOLES**

DM-CB-10LPC	04-15-03	LOW PROFILE LOWERED CURB 813 mm X 660 mm RECTANGULAR CONCRETE NO. 10LPC CATCH BASIN
DM-CB-10RA		PRECAST 1219 mm CIRCULAR NO. 10 CATCH BASIN (FOR USE WITH 150 mm NONMOUNTABLE CURB)
DM-CB-10S	07-29-02	RECTANGULAR CONCRETE NO. 10 CATCH BASIN
DM-CB-10SB		1219 mm X 1219 mm SQUARE CONCRETE NO. 10 CATCH BASIN
DM-CB-12B	07-29-02	RECTANGULAR BRICK NO. 12 CATCH BASIN
DM-CB-12LP	05-27-01	LOW PROFILE 813 mm X 813 mm SQUARE CONCRETE NO. 12LP CATCH BASIN
DM-CB-12P	07-29-02	PRECAST RECTANGULAR CONCRETE NO. 12 CATCH BASIN
DM-CB-12RA	05-27-01	PRECAST 1219 mm CIRCULAR NO. 12 CATCH BASIN (FOR USE WITH 150 mm NONMOUNTABLE CURB)
DM-CB-12RB	05-27-01	PRECAST 1524 mm AND 1828 mm CIRCULAR NO. 12 CATCH BASIN (FOR USE WITH 150 mm NONMOUNTABLE CURB)
DM-CB-12RC	05-27-01	PRECAST 2134 mm THRU 3048 mm CIRCULAR NO. 12 CATCH BASIN (FOR USE WITH 150 mm NONMOUNTABLE CURB)
DM-CB-12S	07-29-02	RECTANGULAR CONCRETE NO. 12 CATCH BASIN
DM-CB-12SB	07-29-02	1219 mm X 1219 mm SQUARE CONCRETE NO. 12 CATCH BASIN
DM-CB-12SC	09-11-02	1575 mm X 1575 mm SQUARE CONCRETE NO. 12 CATCH BASIN
DM-CB-12SD	09-11-02	2134 mm X 2134 mm SQUARE CONCRETE NO. 12 CATCH BASIN
DM-CB-12SE	<u>02-13-04</u>	2743 mm X 2743 mm SQUARE CONCRETE NO. 12 CATCH BASIN
DM-CB-13B	07-29-02	RECTANGULAR BRICK NO. 13 CATCH BASIN

DM-CB-13P	07-29-02	PRECAST RECTANGULAR CONCRETE NO. 13 CATCH BASIN
DM-CB-13RA	05-27-01	PRECAST 1219 mm CIRCULAR NO. 13 CATCH BASIN (FOR USE WITH 150 mm NONMOUNTABLE CURB)
DM-CB-13RB	05-27-01	PRECAST 1524 mm AND 1828 mm CIRCULAR NO. 13 CATCH BASIN (FOR USE WITH 150 mm NONMOUNTABLE CURB)
DM-CB-13RC	05-27-01	PRECAST 2134 mm THRU 3048 mm CIRCULAR NO. 13 CATCH BASIN (FOR USE WITH 150 mm NONMOUNTABLE CURB)
DM-CB-13S	07-29-02	RECTANGULAR CONCRETE NO. 13 CATCH BASIN
DM-CB-14B	07-29-02	RECTANGULAR BRICK NO. 14 CATCH BASIN
DM-CB-14P	07-29-02	PRECAST RECTANGULAR CONCRETE NO. 14 CATCH BASIN
DM-CB-14RB	05-27-01	PRECAST CIRCULAR NO. 14RB CATCH BASIN
DM-CB-14S	07-29-02	RECTANGULAR CONCRETE NO. 14 CATCH BASIN
DM-CB-14SE	<u>02-13-04</u>	2743 mm X 2743 mm SQUARE CONCRETE NO. 14 CATCH BASIN
DM-CB-16B	07-29-02	RECTANGULAR BRICK NO. 16 CATCH BASIN
DM-CB-16S	07-29-02	RECTANGULAR CONCRETE NO. 16 CATCH BASIN
DM-CB-17S	07-29-02	RECTANGULAR CONCRETE NO. 17 CATCH BASIN
DM-CB-25B	07-29-02	RECTANGULAR BRICK NO. 25 CATCH BASIN (FOR USE WITH 150 mm MOUNTABLE CURB)
DM-CB-25LP	05-27-01	LOW PROFILE 813 mm X 813 mm SQUARE CONCRETE NO. 25LP CATCH BASIN (FOR USE WITH 150 mm MOUNTABLE CURB)
DM-CB-25P	07-29-02	PRECAST RECTANGULAR CONCRETE NO. 25 CATCH BASIN (FOR USE WITH 150 mm MOUNTABLE CURB)
DM-CB-25RA	05-27-01	PRECAST 1219 mm CIRCULAR NO. 25 CATCH BASIN (FOR USE WITH 150 mm MOUNTABLE CURB)
DM-CB-25RB	05-27-01	PRECAST CIRCULAR NO. 25 CATCH BASIN (FOR USE WITH 150 mm MOUNTABLE CURB)
DM-CB-25S	07-29-02	RECTANGULAR CONCRETE NO. 25 CATCH BASIN (FOR USE WITH 150 mm MOUNTABLE CURB)

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DM-CB-25SB	07-29-02	1219 mm X 1219 mm SQUARE CONCRETE NO. 25 CATCH BASIN (FOR USE WITH 150 mm MOUNTABLE CURB)
DM-CB-25SC	09-11-02	1575 mm X 1575 mm SQUARE CONCRETE NO. 25 CATCH BASIN (FOR USE WITH 150 mm MOUNTABLE CURB)
DM-CB-25SD	09-11-02	2134 mm X 2134 mm SQUARE CONCRETE NO. 25 CATCH BASIN (FOR USE WITH 150 mm MOUNTABLE CURB)
DM-CB-25SE	<u>02-13-04</u>	2743 mm X 2743 mm SQUARE CONCRETE NO. 25 CATCH BASIN (FOR USE WITH 150 mm MOUNTABLE CURB)
DM-CB-26P	07-29-02	PRECAST RECTANGULAR CONCRETE NO. 26 CATCH BASIN (FOR USE WITH 150 mm MOUNTABLE CURB)
DM-CB-26S	07-29-02	RECTANGULAR CONCRETE NO. 26 CATCH BASIN (FOR USE WITH 150 mm MOUNTABLE CURB)
DM-CB-27S	07-29-02	RECTANGULAR CONCRETE NO. 27 CATCH BASIN (FOR USE WITH 150 mm MOUNTABLE CURB)
DM-CB-28B	07-29-02	RECTANGULAR BRICK NO. 28 CATCH BASIN (FOR USE WITH 100 mm MOUNTABLE CURB)
DM-CB-28LP	05-27-01	LOW PROFILE 813 mm X 813 mm SQUARE CONCRETE NO. 28LP CATCH BASIN (FOR USE WITH 100 mm MOUNTABLE CURB)
DM-CB-28P	07-29-02	PRECAST RECTANGULAR CONCRETE NO. 28 CATCH BASIN (FOR USE WITH 100 mm MOUNTABLE CURB)
DM-CB-28RA	05-27-01	PRECAST 1219 mm CIRCULAR NO. 28 CATCH BASIN (FOR USE WITH 100 mm MOUNTABLE CURB)
DM-CB-28RB	05-27-01	PRECAST CIRCULAR NO. 28 CATCH BASIN (FOR USE WITH 100 mm MOUNTABLE CURB)
DM-CB-28S	07-29-02	RECTANGULAR CONCRETE NO. 28 CATCH BASIN (FOR USE WITH 100 mm MOUNTABLE CURB)
DM-CB-29P	07-29-02	PRECAST RECTANGULAR CONCRETE NO. 29 CATCH BASIN (FOR USE WITH 100 mm MOUNTABLE CURB)
DM-CB-29S	07-29-02	RECTANGULAR CONCRETE NO. 29 CATCH BASIN (FOR USE WITH 100 mm MOUNTABLE CURB)
DM-CB-31R	<u>10-26-03</u>	PRECAST CIRCULAR NO. 31 CATCH BASIN (FOR USE UNDER CONCRETE MEDIAN BARRIER WALL)
DM-CB-31SD	09-11-02	2134 mm X 2134 mm SQUARE CONCRETE NO. 31 CATCH BASIN (FOR USE UNDER CONCRETE MEDIAN BARRIER WALL)

DM-CB-31SE	<u>02-13-04</u>	2743 mm X 2743 mm SQUARE CONCRETE NO. 31 CATCH BASIN (FOR USE UNDER CONCRETE MEDIAN BARRIER WALL)
DM-CB-38RB	05-27-01	PRECAST CIRCULAR NO. 38 CATCH BASIN
DM-CB-38S	07-29-02	813 mm X 813 mm SQUARE CONCRETE NO. 38 CATCH BASIN
DM-CB-38SB	09-11-02	1219 mm X 1219 mm SQUARE CONCRETE NO. 38 CATCH BASIN
DM-CB-38SC		1575 mm X 1575 mm SQUARE CONCRETE NO. 38 CATCH BASIN
DM-CB-39RB	05-27-01	PRECAST CIRCULAR NO. 39 CATCH BASIN
DM-CB-39S	09-11-02	1219 mm X 1219 mm SQUARE CONCRETE NO. 39 CATCH BASIN
DM-CB-39SC		1575 mm X 1575 mm SQUARE CONCRETE NO. 39 CATCH BASIN
DM-CB-39SD	09-11-02	2134 mm X 2134 mm SQUARE CONCRETE NO. 39 CATCH BASIN
DM-CB-39SE	<u>02-13-04</u>	2743 mm X 2743 mm SQUARE CONCRETE NO. 39 CATCH BASIN
DM-CB-40S	07-29-02	1219 mm X 2439 mm RECTANGULAR CONCRETE NO. 40 CATCH BASIN
DM-CB-41LP	05-27-01	LOW PROFILE 813 mm X 813 mm SQUARE CONCRETE NO. 41LP CATCH BASIN (FOR USE UNDER CONCRETE MEDIAN BARRIER WALL)
DM-CB-41P	07-29-02	1219 mm X 914 mm PRECAST RECTANGULAR CONCRETE NO. 41 CATCH BASIN (FOR USE UNDER CONCRETE MEDIAN BARRIER WALL)
DM-CB-41RB	05-27-01	PRECAST CIRCULAR NO. 41 CATCH BASIN (FOR USE UNDER CONCRETE MEDIAN BARRIER WALL)
DM-CB-41S	07-29-02	1219 mm X 914 mm RECTANGULAR CONCRETE NO. 41 CATCH BASIN (FOR USE UNDER CONCRETE MEDIAN BARRIER WALL)
DM-CB-41SB	07-29-02	1219 mm X 1219 mm SQUARE CONCRETE NO. 41 CATCH BASIN (FOR USE UNDER CONCRETE MEDIAN BARRIER WALL)

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DM-CB-41SC	09-11-02	1575 mm X 1575 mm SQUARE CONCRETE NO. 41 CATCH BASIN (FOR USE UNDER CONCRETE MEDIAN BARRIER WALL)
DM-CB-41SD	09-11-02	2134 mm X 2134 mm SQUARE CONCRETE NO. 41 CATCH BASIN (FOR USE UNDER CONCRETE MEDIAN BARRIER WALL)
DM-CB-41SE	<u>02-13-04</u>	2743 mm X 2743 mm SQUARE CONCRETE NO. 41 CATCH BASIN (FOR USE UNDER CONCRETE MEDIAN BARRIER WALL)
DM-CB-42RB	05-27-01	PRECAST CIRCULAR NO. 42 CATCH BASIN
DM-CB-42S	07-29-02	813 mm X 813 mm SQUARE CONCRETE NO. 42 CATCH BASIN
DM-CB-42SB	05-27-01	1219 mm X 1219 mm SQUARE CONCRETE NO. 42 CATCH BASIN
DM-CB-42SC		1575 mm X 1575 mm SQUARE CONCRETE NO. 42 CATCH BASIN
DM-CB-42SD	09-11-02	2134 mm X 2134 mm SQUARE CONCRETE NO. 42 CATCH BASIN
DM-CB-43R	05-27-01	PRECAST CIRCULAR NO. 43R CATCH BASIN
DM-CB-43SB	07-29-02	2439 mm X 1219 mm RECTANGULAR CONCRETE NO. 43SB CATCH BASIN
DM-CB-43SC	07-29-02	2439 mm X 1575 mm RECTANGULAR CONCRETE NO. 43SC CATCH BASIN
DM-CB-44SE	<u>02-13-04</u>	2743 mm X 2743 mm SQUARE CONCRETE NO. 44 CATCH BASIN
DM-CB-45S	05-27-01	2439 mm X 1219 mm RECTANGULAR CONCRETE NO. 45 CATCH BASIN (FOR USE UNDER CONCRETE MEDIAN BARRIER WALL)
DM-CB-46SE	<u>02-13-04</u>	2743 mm X 2743 mm SQUARE CONCRETE NO. 46 CATCH BASIN (FOR USE UNDER CONCRETE MEDIAN BARRIER WALL)
DM-CB-51SC	09-11-02	1575 mm X 1575 mm SQUARE CONCRETE NO. 51 CATCH BASIN (FOR USE IN FRONT OF CONCRETE RETAINING WALL)
DM-CB-51SD		2134 mm X 2134 mm SQUARE CONCRETE NO. 51 CATCH BASIN (FOR USE IN FRONT OF CONCRETE RETAINING WALL)

DM-CBB-12A	05-27-01	TYPE "B" CAST IRON FRAME, GRATE & NONMOUNTABLE INLET DETAILS FOR NOS. 10, 12, 14, 16 AND 17 TYPE CATCH BASINS
DM-CBB-12B	05-27-01	TYPE "B" CAST IRON FRAME, GRATE & 150 mm MOUNTABLE INLET DETAILS FOR NOS. 25, 26, AND 27 TYPE CATCH BASINS
DM-CBB-12C	05-27-01	TYPE "B" CAST IRON FRAME, GRATE & 100 mm MOUNTABLE INLET DETAILS FOR NOS. 28 AND 29 TYPE CATCH BASINS
DM-CBB-13	05-27-01	TYPE "B" CAST IRON FRAME, GRATE & NONMOUNTABLE INLET DETAILS FOR NO. 13 TYPE CATCH BASINS
DM-CBB-31	05-27-01	TYPE "B" CAST IRON FRAME, GRATE & INLET DETAILS FOR NOS. 31, 41, 45, 46, & 51 TYPE CATCH BASINS
DM-CBB-42	05-27-01	CAST IRON GRATE DETAILS FOR NOS. 42, 43 & 44 TYPE CATCH BASINS
DM-JBS-1	07-29-02	813 mm X 813 mm SQUARE CONCRETE NO. 1 JUNCTION BOX
DM-JBS-2	07-29-02	1219 mm X 1219 mm SQUARE CONCRETE NO. 2 JUNCTION BOX
DM-JBS-3	09-11-02	1575 mm X 1575 mm SQUARE CONCRETE NO. 3 JUNCTION BOX
DM-JBS-4	09-11-02	2134 mm X 2134 mm SQUARE CONCRETE NO. 4 JUNCTION BOX
DM-JBS-5	09-11-02	2743 mm X 2743 mm SQUARE CONCRETE NO. 5 JUNCTION BOX
DM-MH-2	05-27-01	MASONRY & PRECAST NO. 3 MANHOLE
DM-MH-3	04-15-00	PRECAST CIRCULAR LID DETAILS FOR NO. 3 MANHOLE
DM-MH-3A	05-27-01	PRECAST CIRCULAR LID DETAILS FOR NO. 3 MANHOLE (2743 mm AND 3048 mm DIA.)
DM-MH-4	05-27-01	NO. 3 MANHOLE CASTINGS AND STEPS
DM-MH-5	09-11-02	1575 mm x 1575 mm SQUARE CONCRETE NO. 3 MANHOLE
DM-MH-6	09-11-02	2134 mm x 2134 mm SQUARE CONCRETE NO. 3 MANHOLE
DM-MH-7	09-11-02	2743 mm x 2743 mm SQUARE CONCRETE NO. 3 MANHOLE

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DM-SDS-1	07-29-02	813 mm X 813 mm SQUARE CONCRETE NO. 1 SPRING DRAIN BOX
DM-SDS-2A	07-29-02	1219 mm X 1219 mm SQUARE CONCRETE NO. 2A SPRING DRAIN BOX
DM-SDS-2B	07-29-02	1219 mm X 1219 mm SQUARE CONCRETE NO. 2B SPRING DRAIN BOX
DM-SDS-3A	07-29-02	1575 mm X 1575 mm SQUARE CONCRETE NO. 3A SPRING DRAIN BOX
DM-SLD-1	05-27-01	SLOTTED DRAINS
DM-SLD-2	05-27-01	SLOTTED DRAINS
DM-SLD-3	05-27-01	SLOTTED DRAINS

**ROADWAY AND PAVEMENT APPURTENANCES**

RPM-CS-1	05-27-01	CONCRETE SHOULDER RUMBLE STRIP DETAIL (FOR 4-LANE DIVIDED HIGHWAY)
RPM-CS-2	05-27-01	CONCRETE SHOULDER RUMBLE STRIP DETAIL (FOR 6-LANE OR WIDER DIVIDED HIGHWAY)
RPM-D-14	11-01-95	DETAILS OF CONCRETE DRIVEWAYS
RPM-DHO-1	11-01-95	MEDIAN OPENINGS ON 4-LANE DIVIDED HIGHWAY
RPM-H-1	11-01-95	HANDICAP RAMP
RPM-I-5	12-18-96	EXAMPLES OF STREET AND ALLEY INTERSECTIONS
RPM-J-1	10-26-00	PORTLAND CEMENT CONCRETE PAVEMENT JOINT TYPES AND SPACING
RPM-J-3	10-26-00	PORTLAND CEMENT CONCRETE PAVEMENT JOINT TYPES AND SPACING
RPM-J-5	10-26-00	TYPICAL ACCELERATION AND DECELERATION LANE JOINT TYPES AND SPACING FOR CONCRETE RAMPS
RPM-J-7	10-26-00	CONCRETE RAMP JOINT TYPES AND SPACING
RPM-J-9	01-19-02	CONTRACTION AND CONSTRUCTION JOINTS FOR CONCRETE PAVEMENT
RPM-J-11	07-29-96	19 mm AND 44 mm EXPANSION AND EDGE PAVEMENT JOINTS
RPM-J-13	11-01-95	19 mm AND 44 mm ELASTOMERIC COMPRESSION JOINT SEALS
RPM-J-15	01-19-02	LONGITUDINAL CONTRACTION AND CONSTRUCTION JOINTS
RPM-J-17	10-26-00	DOWEL ASSEMBLY DEVICES
RPM-J-18	10-26-00	DOWEL ASSEMBLY DEVICES
RPM-J-19	10-26-00	DOWEL ASSEMBLY DEVICES



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RPM-J-23	01-19-02	CONCRETE PAVEMENT REPAIR DETAILS
RPM-J-24	07-01-01	CONCRETE PAVEMENT SPALL AND RANDOM CRACK REPAIR DETAILS
RPM-J-25	05-27-01	CONCRETE PAVEMENT JOINT REPAIR DETAILS
RPM-MC-1	02-28-02	STANDARD 100 mm SLOPING (MOUNTABLE) CONCRETE CURBS AND CONCRETE CURBS AND GUTTERS
RPM-MC-2	02-28-02	STANDARD 150 mm SLOPING (MOUNTABLE) CONCRETE CURBS AND CONCRETE CURBS AND GUTTERS
RPM-NMC-10	02-28-02	STANDARD VERTICAL (NONMOUNTABLE) CONCRETE CURBS AND CONCRETE CURBS AND GUTTERS
RPM-NMC-11	02-28-02	STANDARD VERTICAL (NONMOUNTABLE) CONCRETE CURBS AND CONCRETE CURBS AND GUTTERS
RPM-PMR-1	05-27-01	DETAILS FOR PROPOSED PERMANENT MAINTENANCE RAMP
RPM-R-1	05-27-01	RAMPS TO SIDE ROADS
RPM-S-7	07-29-96	DETAILS FOR STANDARD CONCRETE SIDEWALKS
RPM-S-8	11-01-95	DETAILS FOR STANDARD CONCRETE STEPS AND PIPE HANDRAILS

**SAFETY APPURTENANCES AND FENCE**

SM-F-10	11-01-95	RIGHT-OF-WAY STOCK FENCE
SM-F-10A	11-01-95	RIGHT-OF-WAY STOCK FENCE WITH TIMBER POSTS
SM-F-10B	05-27-01	RIGHT-OF-WAY CHAIN LINK FENCE
SM-FG-11	11-01-95	STOCK FENCE GATE
SM-FG-20	11-01-95	EXAMPLES OF WATER GATES AND WATER CROSSINGS
SM-GR-11	<u>09-05-03</u>	W-BEAM & THRIE BEAM BARRIER RAIL AND RUB RAIL ALTERNATES
SM-GR-12	<u>05-27-03</u>	W-BEAM BARRIER POST DETAILS AND SPECIFICATIONS
SM-GR-13	<u>05-27-03</u>	<u>BARRIER RAIL MOUNTING, POST BLOCK-OUTS WITH VERTICAL ADJUSTMENT HOLES</u>
<u>SM-GR-13A</u>		<u>BARRIER RAIL MOUNTING POST FOR PLASTIC BLOCK-OUTS WITH HORIZONTAL ADJUSTMENT HOLES</u>
SM-GR-14	09-05-98	W-BEAM BARRIER FASTENING HARDWARE AND BRIDGE APPROACH DELINEATORS
SM-GR-15	<u>09-05-03</u>	W-BEAM BARRIER TERMINAL ELEMENT DETAILS
SM-GR-16	05-27-01	GUARDRAIL BARRIER TREATMENT FOR PIERS IN MEDIAN
SM-GR-17	09-11-02	BRIDGE END PROTECTION IN MEDIAN FOR DUAL BRIDGE
SM-GR-18	05-27-01	GUARDRAIL TERMINAL (TYPE IN-LINE) AND SHOULDER LINE DETAIL
SM-GR-19	<u>10-26-03</u>	GUARDRAIL TERMINAL ANCHORS, TYPE 12 AND TYPE 13
<u>SM-GR-19A</u>	<u>05-27-04</u>	<u>DETAILS FOR CONSTRUCTION OF TYPE 12 GUARDRAIL TERMINAL</u>
SM-GR-20	05-27-01	MEDIAN DIVIDER GUARDRAIL AND GUARDRAIL TERMINAL ANCHORS
SM-GR-21	<u>04-15-04</u>	LENGTH OF NEED AND TERMINAL REQUIREMENTS IN FILLS
SM-GR-22	04-15-02	GUARDRAIL ATTACHMENT TO CONCRETE DECKS OF BOX AND SLAB CULVERTS AND BRIDGES

SM-GR-23	05-27-01	GUARDRAIL ATTACHMENT TO STRUCTURES AND PROTECTIVE GUARDRAIL AT BRIDGE END DETAILS
SM-GR-24	05-27-01	MINIMUM INSTALLATION LENGTH FOR PROTECTIVE GUARDRAIL AT BRIDGE ENDS
SM-GR-26	09-05-01	GUARDRAIL TERMINAL ANCHOR (TYPE 21) POST LAYOUT AND ERECTION DETAILS
SM-GR-27	<u>05-27-03</u>	GUARDRAIL TERMINAL ANCHOR (TYPE 21) ELEMENT ASSEMBLY DETAILS
SM-GR-28	12-18-98	GUARDRAIL TERMINAL ANCHOR (TYPE 21) POST AND ASSEMBLY DETAILS
SM-GR-32	<u>05-27-03</u>	ET-2000 GUARDRAIL TERMINAL ANCHOR (TYPE 38) POST LAYOUT AND ERECTION DETAILS
SM-GR-33	02-01-99	ET-2000 (2 TUBE) GUARDRAIL ELEMENT ASSEMBLY DETAILS
SM-GR-34	<u>05-27-03</u>	ET-2000 (2 TUBE) POST AND ASSEMBLY DETAILS
SM-GR-35	<u>05-01-03</u>	SKT-350 GUARDRAIL TERMINAL ANCHOR (TYPE 38) POST LAYOUT AND ERECTION DETAILS
SM-GR-36	<u>05-01-03</u>	SKT-350 (2 TUBE) GUARDRAIL ELEMENT ASSEMBLY DETAILS
SM-GR-37	10-10-01	SKT-350 (2 TUBE) POST AND ASSEMBLY DETAILS
SM-GR-38	05-27-01	DETAILS FOR CONSTRUCTION OF EARTH PAD FOR TYPE 38 GUARDRAIL END TERMINALS
SM-GR-39	05-27-01	DETAILS FOR CONSTRUCTION OF EARTH PAD FOR TYPE 21 GUARDRAIL END TERMINALS
SM-GR-40	09-11-01	BEST GUARDRAIL TERMINAL ANCHOR (TYPE 38) POST LAYOUT AND ERECTION DETAILS
SM-GR-41		BEST (2 TUBE) GUARDRAIL ELEMENT ASSEMBLY DETAILS
SM-GR-42		BEST (2 TUBE) POST AND ASSEMBLY DETAILS
SM-MB-1	05-27-01	CONCRETE MEDIAN BARRIER
SM-MB-2	05-27-01	CONCRETE MEDIAN BARRIER (BRIDGE PIER PROTECTION)
SM-MB-3	10-26-99	CONCRETE GLARE SCREEN MEDIAN BARRIER
SM-MB-3A	10-26-99	CONCRETE GLARE SCREEN MEDIAN BARRIER

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SM-MB-4	05-27-01	CONCRETE GLARE SCREEN MEDIAN BARRIER (BRIDGE PIER PROTECTION)
SM-MB-7		STANDARD DETAILS FOR CONCRETE BARRIER WALL INCLUDING GUARDRAIL ATTACHMENT
SM-MB-8		STANDARD DETAILS FOR CONCRETE BARRIER WALL AT BRIDGE BENTS INCLUDING GUARDRAIL ATTACHMENT
SM-RP-2	01-19-99	CONCRETE RIGHT-OF-WAY MARKERS

**TRAFFIC CONTROL APPURTENANCES**

TM-FAB-1	05-27-97	FLASHING YELLOW ARROW BOARD
TM-L-1	11-01-95	LIGHTING DETAILS - SUPPORTS
TM-L-1A	11-01-95	LIGHTING DETAILS - FOUNDATIONS
TM-L-2	<u>09-11-03</u>	<u>FOUNDATION DETAIL FOR LUMINAIRE MOUNTED ON A CONCRETE MEDIAN BARRIER</u>
TM-L-3	11-01-95	LIGHTING DETAILS - PULL BOXES
TM-L-4	07-29-96	LIGHTING DETAILS - CONDUIT AND CABLE INSTALLATION
TM-M-1	<u>04-15-04</u>	DETAILS OF PAVEMENT MARKINGS FOR CONVENTIONAL ROADS AND MARKING ABBREVIATIONS
TM-M-2	<u>04-15-04</u>	DETAILS OF PAVEMENT MARKINGS FOR CONVENTIONAL ROADS
TM-M-3	11-01-95	MARKING STANDARDS FOR TRAFFIC ISLANDS, MEDIANS & PAVED SHOULDERS ON CONVENTIONAL ROADS
TM-M-4	09-05-01	INTERSECTION PAVEMENT MARKINGS
TM-M-5	<u>04-15-04</u>	MARKING DETAILS FOR EXPRESSWAYS & FREEWAYS
TM-M-6	07-29-98	MARKING DETAIL FOR EXPRESSWAY & FREEWAY INTERCHANGES
TM-M-7	07-29-98	GORE MARKING DETAILS FOR EXPRESSWAY & FREEWAY INTERCHANGES
TM-M-8	07-29-98	MARKING DETAILS FOR EXPRESSWAYS & FREEWAYS
TM-M-9	12-12-00	MARKING DETAILS FOR RAMP INTERSECTIONS
TM-PBR-1	03-10-00	INTERCONNECTED PORTABLE BARRIER RAIL
TM-PBR-2	11-01-95	DETAIL FOR VERTICAL PANELS
TM-RR-1	01-19-99	TYPICAL PAVEMENT MARKING AT RAILROAD-HIGHWAY GRADE CROSSINGS AND RAILROAD ADVANCE WARNING SIGN
TM-RR-2	07-29-96	DRAWING FOR RAILROAD AND HIGHWAY CROSSING SIGNAL WITH GATE

TM-RR-3	07-29-96	DRAWING FOR RAILROAD-HIGHWAY CROSSING SIGNAL
TM-RR-4	07-29-96	DRAWING FOR TYPICAL CURB & GUTTER PLAN FOR RAILROAD-HIGHWAY CROSSING WITH OR WITHOUT GATES
TM-RR-5	07-29-96	DRAWING FOR RAILROAD-HIGHWAY CROSSING SIGNAL TYPICAL CANTILEVER SIGN
TM-S-6	11-01-95	MOUNTING DETAILS - BOLTED EXTRUDED PANELS
TM-S-7	11-01-95	HIGHWAY SHIELDS USED ON INTERSTATE AND U.S. NUMBERED ROUTES
TM-S-8	11-01-95	HIGHWAY SHIELDS USED ON STATE ROUTES AND ARROWS
TM-S-9	11-01-95	LAYOUT - GROUND MOUNTED SIGNS
TM-S-10	<u>05-27-03</u>	MOUNTING DETAILS - FLAT SHEET SIGNS, ALUMINUM-STEEL DESIGN
TM-S-11	05-27-01	DELINEATOR AND MILEPOST DETAILS
TM-S-12	<u>05-27-03</u>	STEEL GROUND MOUNTED SIGNS, BREAKAWAY TYPE POST FOOTING DETAILS, SQUARE TUBES
TM-S-13	05-27-01	STEEL GROUND MOUNTED SIGNS, BREAKAWAY TYPE POST FOOTING DETAILS, I-BEAMS
TM-S-14	05-27-01	STEEL GROUND MOUNTED SIGNS, BREAKAWAY TYPE POST FOOTING DETAILS, WF-BEAMS
TM-S-15	11-01-95	CONDUIT & GROUND DETAILS FOR OVERHEAD & CANTILEVER SIGN STRUCTURES
TM-S-16	05-27-01	GROUND MOUNTED SIGN AND DETAILS
TM-S-17	10-26-96	GROUND MOUNTED SIGN USING PERFORATED/KNOCKOUT SQUARE TUBE
TM-S-18	05-27-01	END OF ROADWAY AND DEAD END SIGNS, METAL BARRICADES (TYPE III) & WORK ZONE SPEED SIGNS
TM-S-19	11-01-95	STANDARD MEMBERS BENDAWAY SIGN SUPPORTS STEEL DESIGN
TM-S-20	05-27-01	SIGN DETAILS
TM-SG-1	11-01-95	DETAIL FOR WOODEN POLE, CONDUIT AND SPAN WIRE CONNECTORS
TM-SG-2	11-01-95	LOOP LEAD-INS AND PULL BOXES

TM-SG-3	11-01-95	NOTES AND DETAILS OF DETECTION LOOPS
TM-SG-5	11-01-95	CONTROLLER CABINET DETAILS
TM-SG-6	11-01-95	CONTROLLER CABINET MOUNTING DETAILS
TM-SG-7	11-01-95	SIGNAL HEAD ASSEMBLIES AND PEDESTRIAN PUSH BUTTON DETAILS
TM-SG-7A	11-01-95	TYPICAL SIGNAL HEAD PLACEMENT
TM-SG-8	11-01-95	STRAIN POLE DETAILS FOR SPAN MOUNTED SIGNALS
TM-SG-9	11-01-95	DETAILS OF CANTILEVER SIGNAL SUPPORT
TM-SG-10	02-14-99	DETAILS AND NOTES FOR STRAIN POLES
TM-SG-11	11-01-95	MAINTENANCE OF EXISTING SIGNALS DURING HIGHWAY CONSTRUCTION
TM-SG-12	11-01-95	TYPICAL WIRING FOR SIGNAL HEADS AND DETECTION LOOPS
TM-WZ-10	01-19-01	ADVANCE ROAD WORK SIGNING ON HIGHWAYS AND FREEWAYS
TM-WZ-11	<u>04-15-04</u>	ONE LANE CLOSURE DETAIL ON DIVIDED HIGHWAYS
TM-WZ-12	<u>04-15-04</u>	ONE LANE CLOSURE DETAIL FOR BRIDGES ON DIVIDED HIGHWAYS
TM-WZ-13	<u>04-15-04</u>	TWO-OUTSIDE LANE CLOSURE ON FREEWAY OR EXPRESSWAY
TM-WZ-14	<u>04-15-04</u>	TWO-OUTSIDE LANE CLOSURE ON FREEWAY OR EXPRESSWAY (PORTABLE BARRIER RAIL)
TM-WZ-15	<u>04-15-04</u>	INTERIOR LANE CLOSURE ON FREEWAYS OR EXPRESSWAYS
TM-WZ-16	<u>04-15-04</u>	LANE SHIFT ON DIVIDED HIGHWAYS AND FREEWAYS (600 m OR LESS)
TM-WZ-17	<u>04-15-04</u>	LANE SHIFT ON DIVIDED HIGHWAYS AND FREEWAYS (GREATER THAN 600 m)
TM-WZ-18	<u>04-15-04</u>	SHOULDER CLOSURE DETAIL FOR FREEWAYS AND DIVIDED HIGHWAYS
TM-WZ-19	<u>04-15-04</u>	MEDIAN CROSS-OVER DETAIL ON DIVIDED HIGHWAYS
TM-WZ-20	12-18-99	GEOMETRIC MEDIAN CROSS-OVER DETAIL ON DIVIDED HIGHWAYS





**EROSION CONTROL AND LANDSCAPING**

ECM-STR-1	<u>03-15-04</u>	PAY ITEMS, GENERAL NOTES, AND TEMPORARY DEWATERING STRUCTURE
ECM-STR-2	<u>10-26-03</u>	TEMPORARY SEDIMENT FILTER BAGS
<u>ECM-STR-3A</u>	<u>12-18-03</u>	<u>TEMPORARY FILTER BARRIER</u>
<u>ECM-STR-3B</u>	<u>12-18-03</u>	<u>TEMPORARY SILT FENCE</u>
<u>ECM-STR-3C</u>	<u>12-18-03</u>	<u>TEMPORARY SILT FENCE WITH BACKING</u>
ECM-STR-3D	<u>12-18-03</u>	TEMPORARY ENHANCED SILT FENCE
ECM-STR-3E		EROSION CONTROL FABRIC JOINING DETAILS
ECM-STR-4	<u>03-15-04</u>	TEMPORARY EROSION DITCH CHECK USING ENHANCED SILT FENCE
ECM-STR-4A	<u>03-15-04</u>	TEMPORARY EROSION CHECK/FILTER USING ENHANCED SILT FENCE IN A TRIANGULAR CROSS-SECTION DITCH
ECM-STR-5	<u>10-26-03</u>	STRAW OR HAY BALE OR FABRIC TEMPORARY EROSION CHECKS
ECM-STR-6	<u>10-26-03</u>	ROCK CHECK DAMS
ECM-STR-7	01-22-03	TEMPORARY SEDIMENT TRAP WITH TEMPORARY SILT SCREEN CHECK DAM
ECM-STR-11	01-22-03	ROCK SILT SCREENS
ECM-STR-12	01-22-03	TEMPORARY ROCK SEDIMENT DAM
ECM-STR-13	<u>05-27-04</u>	TEMPORARY OR PERMANENT ROCK AND EARTH SEDIMENT DAM
ECM-STR-15	05-27-01	SEDIMENT BASIN TYPE 1
ECM-STR-16	11-01-95	SEDIMENT BASINS RISER AND COLLAR APPURTENANCES
ECM-STR-17	05-27-01	SEDIMENT BASIN TYPE 1 DAM DETAILS
ECM-STR-19	<u>03-15-04</u>	CATCH BASIN PROTECTION
ECM-STR-21	05-27-01	PERMANENT RIP-RAP BASIN ENERGY DISSIPATER
ECM-STR-25	<u>07-29-03</u>	TEMPORARY ROAD STABILIZATION AND TEMPORARY CULVERT CROSSING

ECM-STR-27	05-27-01	TEMPORARY SLOPE DRAINS AND BERMS
ECM-STR-29	05-27-01	PERMANENT EROSION PIPE (SLOPE DRAIN)
ECM-STR-31	<u>10-26-03</u>	TEMPORARY DIVERSION CHANNELS
ECM-STR-34	01-22-03	INSTALLATION DETAIL FOR EROSION CONTROL BLANKETS
ECM-STR-36	<u>10-26-03</u>	INSTALLATION DETAIL FOR FLEXIBLE CHANNEL LINER
<u>ECM-STR-40</u>		<u>CATCH BASIN FILTER ASSEMBLY FOR CIRCULAR STRUCTURES</u>
<u>ECM-STR-41</u>		<u>CATCH BASIN FILTER ASSEMBLY (TYPE 1)</u>
<u>ECM-STR-41A</u>		<u>CATCH BASIN FILTER ASSEMBLY (TYPE 1) SLIPCOVER DETAILS</u>
<u>ECM-STR-42</u>		<u>CATCH BASIN FILTER ASSEMBLY (TYPE 2)</u>
<u>ECM-STR-42A</u>		<u>CATCH BASIN FILTER ASSEMBLY (TYPE 2) SLIPCOVER DETAILS</u>
<u>ECM-STR-43</u>		<u>CATCH BASIN FILTER ASSEMBLY (TYPE 3)</u>
<u>ECM-STR-43A</u>		<u>CATCH BASIN FILTER ASSEMBLY (TYPE 3) SLIPCOVER DETAILS</u>
<u>ECM-STR-44</u>		<u>CATCH BASIN FILTER ASSEMBLY (TYPE 4)</u>
<u>ECM-STR-44A</u>		<u>CATCH BASIN FILTER ASSEMBLY (TYPE 4) SLIPCOVER DETAILS</u>
<u>ECM-STR-45</u>		<u>CATCH BASIN FILTER ASSEMBLY (TYPE 5)</u>
<u>ECM-STR-45A</u>		<u>CATCH BASIN FILTER ASSEMBLY (TYPE 5) SLIPCOVER DETAILS</u>
<u>ECM-STR-46</u>		<u>CATCH BASIN FILTER ASSEMBLY (TYPE 6)</u>
<u>ECM-STR-46A</u>		<u>CATCH BASIN FILTER ASSEMBLY (TYPE 6) SLIPCOVER DETAILS</u>
<u>ECM-STR-47</u>		<u>CATCH BASIN FILTER ASSEMBLY (TYPE 7)</u>
<u>ECM-STR-47A</u>		<u>CATCH BASIN FILTER ASSEMBLY (TYPE 7) SLIPCOVER DETAILS</u>
<u>ECM-STR-48</u>		<u>CATCH BASIN FILTER ASSEMBLY (TYPE 8)</u>
<u>ECM-STR-48A</u>		<u>CATCH BASIN FILTER ASSEMBLY (TYPE 8) SLIPCOVER DETAILS</u>

ECM-STR-49

CATCH BASIN FILTER ASSEMBLY (TYPE 9)

ECM-STR-49A

CATCH BASIN FILTER ASSEMBLY (TYPE 9) SLIPCOVER  
DETAILS

ELM-P-10

05-27-96

TYPICAL ROADWAY LANDSCAPE PLANTING DETAILS

ELM-P-11

05-27-96

TYPICAL MATURE PLANT SPREAD AND CRITERIA FOR  
PROXIMITY TO ROADWAY

ELM-W-1

05-27-96

DETAILS OF TREE WALLS

ELM-W-2

05-27-01

STANDARD GRAVITY-TYPE RETAINING WALLS