

# SECTION I - BARRIER

SHEET NO.	NAME	
B-L (2010)	– BARRIER LEGEND	
B-1	– GUARDRAIL APPLICATIONS (TYPES 1-31, 2-31, AND 3-31)	
	(2018) - 1 PLAN VIEWS	
	(2017) - 2 ELEVATION VIEWS AND SPLICE DETAIL	
	(2018) - 3 SECTION VIEWS	
B-2	– GRADING FOR GUARDRAIL END TREATMENTS (TYPES 1, 2, AND 3)	
	(2013) - 1 GUARDRAIL END TREATMENT, TYPE 1	
	(2013) - 2 GUARDRAIL END TREATMENT, TYPE 2	
	(2010) - 3 GUARDRAIL END TREATMENT, TYPE 3	
B-3	– GUARDRAIL OVER CULVERTS (TYPES 1-31, 2-31, AND 3-31)	
	(2013) - 1 GUARDRAIL OVER CULVERTS, TYPE 1-31	
	(2013) - 2 GUARDRAIL OVER CULVERTS, TYPE 2-31	
	(2013) - 3 GUARDRAIL OVER CULVERTS, TYPE 3-31	
B-4 (2012)	– END ANCHORAGE, TYPE 31	
B-5	– GUARDRAIL TO BARRIER CONNECTION (TYPES 1-31, 2-31, AND EXIT TYPE 31)	
	(2010) - 1 GUARDRAIL TO BARRIER CONNECTION, APPROACH TYPE 1-31	
	(2010) - 2 GUARDRAIL TO BARRIER CONNECTION, TYPE 1 HARDWARE	
	(2010) - 3 GUARDRAIL TO BARRIER CONNECTION, BENT PLATE RUB RAIL	
	(2012) - 4 GUARDRAIL TO BARRIER CONNECTION, APPROACH TYPE 2-31	
	(2010) - 5 GUARDRAIL TO BARRIER CONNECTION, TYPE 2 HARDWARE	
	(2010) - 6 GUARDRAIL TO BARRIER CONNECTION, EXIT TYPE 31	
B-6	– BRIDGE RAIL RETROFIT (TYPES 1, 2, 3, AND 4)	
	(2013) - 1 BRIDGE RAIL RETROFIT, ENTRANCE AND END APPLICATIONS	
	(2010) - 2 BRIDGE RAIL RETROFIT, TYPES 1 AND 2	
	(2010) - 3 BRIDGE RAIL RETROFIT, TYPE 2 HARDWARE	
	(2010) - 4 BRIDGE RAIL RETROFIT, TYPE 3	
	(2010) - 5 BRIDGE RAIL RETROFIT, TYPE 4	
B-7 (2010)	– W-BEAM, TYPE 1-27 TO TYPE 1-31 TRANSITION SECTION	
B-8	– RESERVED	
B-9	– RESERVED	
B-10	– RESERVED	
B-11	– RESERVED	
B-12	– RESERVED	
B-13	– HARDWARE	
	(2010) - 1 W-BEAM ELEVATION AND SECTION VIEWS	
	(2010) - 2 W-BEAM STEEL POST AND OFFSET BLOCK	
	(2010) - 3 W-BEAM TERMINAL CONNECTOR	
	(2010) - 4 THRIE BEAM AND THRIE BEAM EXPANSION ELEMENT ELEVATION AND SECTION VIEWS	
	(2010) - 5 THRIE BEAM STEEL POST AND OFFSET BLOCK	
	(2010) - 6 ASYMMETRIC AND SYMMETRIC W-BEAM TO THRIE BEAM TRANSITION SECTION	
	(2010) - 7 SHORT AND LONG WOOD BREAKAWAY POSTS, STEEL TUBE, SOIL PLATE, AND OFFSET BLOCKS	
	(2012) - 8 SWAGED CABLE ASSEMBLAGE AND HARDWARE	
	(2010) - 9 GUARDRAIL DELINEATOR AND W-BEAM BEARING PLATE	
	(2010) - 10 GUARDRAIL MOUNTED RAIL	
B-14	– CONCRETE SAFETY BARRIER (F SHAPE)	
	(2012) - 1 32" (960) CONCRETE BARRIER, TYPICAL CAST-IN-PLACE OR SLIP-FORM ELEVATION AND SECTION VIEWS	
	(2009) - 2 32" (960) CONCRETE BARRIER, TYPICAL PRE-CAST ELEVATION AND SECTION VIEWS	
	(2009) - 3 42" (1050) CONCRETE BARRIER, TYPICAL CAST-IN-PLACE OR SLIP-FORM ELEVATION AND SECTION VIEWS	
	(2009) - 4 SLOTTED PLATE CONNECTION DETAILS	
B-15	– GUARDRAIL APPLICATIONS (TYPES 1-27, 2-27, AND 3-27)	
	(2010) - 1 PLAN VIEWS	
	(2010) - 2 ELEVATION VIEWS AND SPLICE DETAIL	
	(2010) - 3 SECTION VIEWS	



## SECTION I - BARRIER (CONT'D)

SHEET NO.	NAME
<b>B-16</b>	<b>– GUARDRAIL OVER CULVERTS (TYPES 1-27, 2-27, AND 3-27)</b>
	(2013) - 1 GUARDRAIL OVER CULVERTS, TYPE 1-27
	(2013) - 2 GUARDRAIL OVER CULVERTS, TYPE 2-27
	(2013) - 3 GUARDRAIL OVER CULVERTS, TYPE 3-27
<b>B-17 (2010)</b>	<b>– GUARDRAIL END TREATMENT (TYPE 4-27)</b>
<b>B-18 (2010)</b>	<b>– CURVED GUARDRAIL SECTION</b>
<b>B-19 (2012)</b>	<b>– END ANCHORAGE (TYPE 27)</b>
<b>B-20</b>	<b>– BURIED END SECTION</b>
	(2010) - 1 BURIED END SECTION - SINGLE RAIL
	(2010) - 2 BURIED END SECTION - DOUBLE RAIL
	(2010) - 3 POST, CONCRETE BLOCK, AND RUBRAIL DETAILS
<b>B-21</b>	<b>– GUARDRAIL TO BARRIER CONNECTION (TYPES 1-27, 2-27, AND EXIT TYPE 27)</b>
	(2010) - 1 GUARDRAIL TO BARRIER CONNECTION, APPROACH TYPE 1-27
	(2010) - 2 GUARDRAIL TO BARRIER CONNECTION, APPROACH TYPE 2-27
	(2010) - 3 GUARDRAIL TO BARRIER CONNECTION, EXIT TYPE 27

## SECTION II - CURB & GUTTER

SHEET NO.	NAME
<b>C-1</b>	<b>– P.C.C. CURB AND INTEGRAL P.C.C. CURB &amp; GUTTER</b>
	(2013) - 1 P.C.C. CURB, TYPICAL CURB SECTION, AND TYPICAL TAPER SECTION AT NOSE OF MEDIANS
	(2012) - 2 INTEGRAL P.C.C. CURB & GUTTER
	(2018) - 3 INTEGRAL P.C.C. CURB & GUTTER (FOR USE AT CURB RAMPS ONLY)
<b>C-2</b>	<b>– PEDESTRIAN CONNECTION</b>
	(2018) - 1 TYPE 1
	(2018) - 2 TYPE 2, 3, AND 4
	(2018) - 3 TYPE 5
<b>C-3 (2018)</b>	<b>– ENTRANCES</b>
<b>C-4 (2012)</b>	<b>– CURB OPENING DETAILS</b>
<b>C-5 (2017)</b>	<b>– CURB OPENING WITH SIDEWALK DETAIL</b>
<b>C-6 (2017)</b>	<b>– CURB RETAINING WALL</b>

## SECTION III - DRAINAGE

SHEET NO.	NAME
<b>D-1</b>	<b>– CONCRETE 6:1 SAFETY END STRUCTURE</b>
	(2018) - 1 DETAIL VIEWS
	(2018) - 2 SCHEDULES
<b>D-2</b>	<b>– CONCRETE 10:1 SAFETY END STRUCTURE</b>
	(2018) - 1 DETAIL VIEWS
	(2018) - 2 SCHEDULES
<b>D-3</b>	<b>– SAFETY GRATES</b>
	(2005) - 1 SAFETY END STRUCTURE GRATE AND ASSEMBLY DETAIL
	(2007) - 2 PERSONNEL SAFETY GRATE FOR PIPE INLET DETAIL
<b>D-R (2017)</b>	<b>– DRAINAGE INLET REFERENCE SHEET</b>
<b>D-4 (2009)</b>	<b>– INLET BOX DETAILS</b>
<b>D-5</b>	<b>– DRAINAGE INLET DETAILS</b>
	(2010) - 1 DRAINAGE INLET ASSEMBLY
	(2014) - 2 DRAINAGE INLET FRAME AND GRATES
	(2012) - 3 DRAINAGE INLET TOP UNITS
	(2010) - 4 DRAINAGE INLET COVER SLAB DETAILS
	(2010) - 5 DOUBLE INLET COVER SLAB DETAILS
	(2012) - 6 34" x 24" DRAINAGE INLET AND COVER SLAB DETAILS
	(2010) - 7 34" x 18" DRAINAGE INLET DETAILS
	(2018) - 8 DRAINAGE INLET TOP UNIT, TYPE S
	(2010) - 9 DOGHOUSE INLET BOX



## SECTION III - DRAINAGE (CONT'D)

SHEET NO.	NAME
D-6	– MAHOLE DETAILS
	(2009) - 1 BOX MANHOLE ASSEMBLY
	(2001) - 2 ROUND MANHOLE ASSEMBLY
	(2001) - 3 MANHOLE, TOP UNIT, FRAME AND COVER
	(2007) - 4 BOX MANHOLE COVER SLAB
D-7	– JUNCTION BOX DETAILS
	(2009) - 1 JUNCTION BOX ASSEMBLY
	(2007) - 2 JUNCTION BOX COVER SLAB
D-8 (2018)	– PIPE BEDDING
D-9 (2018)	– PERFORATED PIPE UNDERDRAIN
D-10 (2011)	– PIPE PLUGGING DETAIL
D-11 (2018)	– SAFETY METAL END SECTION

## SECTION IV - EROSION

SHEET NO.	NAME
E-1 (2014)	– CONCRETE WASHOUT
E-2 (2014)	– SILT FENCE
E-3 (2014)	– SEDIMENT TRAP
E-4 (2014)	– INLET SEDIMENT CONTROL, DRAINAGE INLET
E-5 (2014)	– INLET SEDIMENT CONTROL, CULVERT INLET
E-6 (2014)	– PORTABLE SEDIMENT TANK
E-7 (2014)	– SUMP PIT
E-8 (2014)	– SKIMMER DEWATERING DEVICE
E-9 (2014)	– STONE CHECK DAM
E-10 (2014)	– TEMPORARY SLOPE DRAIN
E-11 (2014)	– INCREMENTAL STABILIZATION
E-14 (2014)	– STABILIZED CONSTRUCTION ENTRANCE
E-15 (2014)	– SANDBAG DIKE
E-16 (2014)	– SANDBAG DIVERSION
E-17 (2014)	– GEOTEXTILE-LINED CHANNEL DIVERSION
E-18 (2014)	– TURBIDITY CURTAIN
E-19 (2014)	– STILLING WELL
E-20 (2014)	– RIPRAP ENERGY DISSIPATOR
E-21 (2014)	– STONE OUTLET DETAIL



## SECTION V - LANDSCAPING

SHEET NO.	NAME
<b>L-1</b>	<b>- PLANTING DETAILS</b>
(2017) - 1	ROADSIDE SHRUB PLANTING DETAIL
(2017) - 2	TREE PLANTING DETAIL
(2017) - 3	PERENNIAL/GROUND COVER PLANTING DETAIL

## SECTION VI - MISCELLANEOUS

SHEET NO.	NAME
<b>M-1 (2001)</b>	<b>- RIGHT-OF-WAY FENCE</b>
<b>M-2 (2017)</b>	<b>- RIGHT-OF-WAY MONUMENTATION</b>
<b>M-3 (2018)</b>	<b>- SHARED-USE PATH &amp; SIDEWALK DETAILS</b>
<b>M-4 (2011)</b>	<b>- BIKE RACK LAYOUT DETAILS</b>
<b>M-5 (2004)</b>	<b>- WOOD RAIL FENCE</b>
<b>M-6 (2011)</b>	<b>- PATTERNED HOT-MIX OR CONCRETE &amp; BRICK PAVER DETAILS</b>
<b>M-7 (2006)</b>	<b>- CHAIN LINK FENCE DETAILS</b>
<b>M-8 (2014)</b>	<b>- P.C.C. PARKING BUMPER</b>
<b>M-9</b>	<b>- BUS STOP PAD DETAILS</b>
(2018) - 1	BUS STOP PAD DETAILS, TYPES 1, 2, & 3
(2018) - 2	BUS STOP PAD WITH SHELTER DETAILS, TYPES 1 & 2
<b>M-10</b>	<b>- BRIDGE SAFETY FENCE</b>
(2014) - 1	BRIDGE SAFETY FENCE, TYPE 1
(2014) - 2	BRIDGE SAFETY FENCE, TYPE 2
(2017) - 3	HARDWARE
<b>M-11 (2017)</b>	<b>- STEEL PLATE</b>
<b>M-12 (2018)</b>	<b>- DRIVEWAY TRANSVERSE SLOPE GRADING</b>

## SECTION VII - PAVEMENT

SHEET NO.	NAME
<b>P-1</b>	<b>- P.C.C. PAVEMENT</b>
(2001) - 1	SLAB PLAN (WITH DOWEL AND TIE LOCATIONS)
(2018) - 2	JOINT AND SEALANT DETAILS
(2001) - 3	W BOLT, HOOK BOLT, DOWEL AND TIE BAR DETAILS
(2001) - 4	DOWEL SUPPORT BASKET
(2001) - 5	DOWEL AND TIE BAR PLACEMENT TOLERANCES
<b>P-2</b>	<b>- P.C.C. PAVEMENT PATCHING</b>
(2008) - 1	FULL DEPTH PATCH, PLAN VIEW
(2008) - 2	FULL DEPTH PATCH, SECTION VIEWS
(2004) - 3	FULL DEPTH PATCH, SEALANT DETAILS, GROUT RETENTION DISK, AND DOWEL BAR
(2001) - 4	FULL DEPTH PATCH, DOWEL AND TIE BAR PLACEMENT TOLERANCES
(2001) - 5	PARTIAL DEPTH PATCH, PLAN AND SECTION VIEWS
<b>P-3 (2014)</b>	<b>- BUTT JOINTS</b>
<b>P-4 (2013)</b>	<b>- PERMANENT CROSS-ROAD PATCH OVER PIPE TRENCH DETAIL</b>
<b>P-5 (2018)</b>	<b>- RUMBLE STRIPS</b>
<b>P-6 (2018)</b>	<b>- PAVEMENT SAFETY EDGE</b>



# SECTION VIII - TRAFFIC

SHEET NO.	NAME
T-1	<ul style="list-style-type: none"> <li>- CONDUIT JUNCTION WELLS</li> <li>(2013) - 1 TYPE 1</li> <li>(2013) - 2 TYPE 4</li> <li>(2013) - 3 TYPE 5</li> </ul>
T-2 (2011)	- JUNCTION WELL, GROUNDING & BONDING FOR STEEL FRAMES & LIDS
T-3	<ul style="list-style-type: none"> <li>- CONDUIT JUNCTION WELLS</li> <li>(2013) - 1 TYPE 11</li> <li>(2012) - 2 TYPE 14</li> <li>(2012) - 3 TYPE 15</li> </ul>
T-4	<ul style="list-style-type: none"> <li>- CABINET BASES</li> <li>(2013) - 1 TYPES M &amp; F</li> <li>(2017) - 2 TYPE "P &amp; R"</li> </ul>
T-5	<ul style="list-style-type: none"> <li>- POLE BASES</li> <li>(2017) - 1 ROUND BASE &amp; ROUND BASE WITH SQUARE FOUNDATION HEADER</li> <li>(2013) - 2 TYPICAL SECTION AND INSTALLATION (BASES 1, 2, 2A, 2B, 3, 3A, AND 3B)</li> <li>(2017) - 3 TYPICAL SECTION (BASES 6) AND POLE BASE DATA CHART</li> <li>(2014) - 4 TYPICAL SECTION (BASE 4A AND 4B) AND ANCHOR DETAIL</li> </ul>
T-6 (2011)	- SPECIAL POLE BASE
T-7 (2005)	- SIGN FOUNDATION
T-8	<ul style="list-style-type: none"> <li>- LOOP DETECTOR LEAD-IN WIRE INSTALLATION</li> <li>(2013) - 1 JUNCTION WELL BEHIND CURB OR CURB AND GUTTER WITH GRASS STRIP</li> <li>(2013) - 2 JUNCTION WELL BEHIND CURB OR CURB &amp; GUTTER WITH SIDEWALK AND JUNCTION WELL DIRECTLY BEHIND CURB OR CURB &amp; GUTTER</li> <li>(2013) - 3 JUNCTION WELL IN CONCRETE ISLAND</li> <li>(2013) - 4 JUNCTION WELL WITHOUT CURB OR CURB &amp; GUTTER WITH SIDEWALK AND GRASS STRIPS AND JUNCTION WELL DIRECTLY ADJACENT TO PAVED SURFACE</li> </ul>
T-9	<ul style="list-style-type: none"> <li>- LOOP DETECTOR INSTALLATION</li> <li>(2013) - 1 LOOP DETECTOR SAWCUT TYPICAL, HOT MIX SURFACE TYPICAL SECTION, AND SPLICE KIT</li> <li>(2013) - 2 TYPICAL INTERSECTION LAYOUT</li> <li>(2013) - 3 PEDESTRIAN CROSSING TYPICAL LAYOUT</li> </ul>
T-10	- <b>**DETAIL REMOVED IN 2012 REVISION**</b>
T-11	<ul style="list-style-type: none"> <li>- MESSENGER WIRE ATTACHMENT</li> <li>(2005) - 1 INTERMEDIATE MESSENGER WIRE ATTACHMENT ON WOOD POLES</li> <li>(2005) - 2 ANGULAR INTERMEDIATE MESSENGER WIRE ATTACHMENT</li> </ul>
T-12	<ul style="list-style-type: none"> <li>- MESSENGER WIRE ATTACHMENT</li> <li>(2005) - 1 SPAN WIRE ATTACHMENT BETWEEN POLES</li> <li>(2005) - 2 DEAD END MESSENGER WIRE ATTACHMENT</li> </ul>
T-13 (2013)	- CONDUIT JUNCTION WELL, TYPE 7
T-14	<ul style="list-style-type: none"> <li>- EMERGENCY PREEMPTION RECIEVER</li> <li>(2006) - 1 UPRIGHT MOUNT</li> <li>(2005) - 2 INVERTED MOUNT</li> </ul>
T-15 (2013)	- BREAKAWAY SIGN POST AND PIN ASSEMBLY DETAILS
T-16 (2010)	- WOOD BARRICADE DETAILS
T-17 (2013)	- ELECTRICAL SERVICE PEDESTAL - LIGHTING, SIGNAL & 'ITMS' COMPONENT INSTALLATIONS

