**2020 Standard Drawings That Apply**

Edit this list to include only the Standard Drawings that are applicable to the project. Once this document is finalized, delete this yellow highlighted part.

**NOTE**: Any Sepias that are listed on the Transport Checklist as “not preloaded into Transport” will need to be included with the other project specific 1-9801 Detail Sheets to ensure the Sepia is made part of the Proposal. Sepias that are preloaded into Transport simply need to have their checkbox checked on the Transport Checklist and when HSIP staff included the Provision Code within Transport the Sepia Drawing will be automatically included in the Proposal.

**ROADWAY**

***~ BARRIERS*** ***~***

GUARDRAIL AND BRIDGE END DRAINAGE

GUARDRAIL AND BRIDGE END DRAINAGE FOR SINGLE STRUCTURES RBB-001-09

GUARDRAIL AND BRIDGE END DRAINAGE FOR TWIN STRUCTURES RBB-002-09

LAYOUT OF GUARDRAIL AT TWIN STRUCTURES-DEPRESSED MEDIAN RBB-003-03

GUARDRAIL TRANSITION FROM NORMAL SHOULDER TO NARROW BRIDGE RBB-010-06

GUARDRAIL CONNECTORS TO BRIDGE ENDS

GUARDRAIL CONNECTOR TO BRIDGE END TYPE A COMPONENTS RBC-002-04

GUARDRAIL CONNECTOR TO BRIDGE END TYPE A AND A-1 COMPONENTS RBC-003-09

GUARDRAIL CONNECTOR TO BRIDGE END TYPE D RBC-004-08

GUARDRAIL CONNECTOR TO BRIDGE END TYPE D NOTES RBC-004N

GUARDRAIL CONNECTOR TO BRIDGE END TYPE A RBC-005-01

GUARDRAIL CONNECTOR TO BRIDGE END TYPE A NOTES RBC-005N

GUARDRAIL CONNECTOR TO BRDIGE END TYPE A-1 RBC-006-01

GUARDRAIL CONNECTOR TO CONCRETE MEDIAN BARRIER END RBC-100-05

GUARDRAIL CONNECTOR TO CONCRETE MEDIAN BARRIER END NOTES RBC-100N

CONNECTION DETAILS OF CRASH CUSHION TYPE VI TO DOUBLE FACE GUARDRAIL RBC-110-12

ENERGY ABSORPTION DEVICES

CRASH CUSHION TYPE VII, CLASS B AND C, (ONE & TWO DIRECTION) RBE-040-11

CRASH CUSHION TYPE VI (ONE & TWO DIRECTION) RBE-060-15

CONCRETE MEDIAN BARRIER END RBE-065-08

CONCRETE MEDIAN BARRIER END NOTES RBE-065N

CONCRETE MEDIAN BARRIER END FOR CRASH CUSHION TYPE IX RBE-070-07

CONCRETE MEDIAN BARRIER END FOR CRASH CUSHION TYPE IX NOTES RBE-070N

CRASH CUSHION TYPE VI-BT RBE-100-11

CRASH CUSHION TYPE IX RBE-200-07

CRASH CUSHION TYPE IX-A RBE-205-07

TYPICAL BARRIER INSTALLATIONS

TYPICAL GUARDRAIL INSTALLATIONS RBI-001-12

TYPICAL GUARDRAIL INSTALLATIONS RBI-002-07

TYPICAL INSTALLATION FOR GUARDRAIL END TREATMENT TYPE 2A RBI-003-09

INSTALLATION OF GUARDRAIL END TREATMENT TYPE 1 RBI-004-06

GUARDRAIL INSTALLATION AT BRIDGE COLUMNS RBI-005-08

GUARDRAIL INSTALLATION AT SIGN SUPPORTS RBI-006-07

CRASH CUSHION TYPE IX INSTALLATION AT MEDIAN PIERS (DEPRESSED MEDIAN) RBI-007-09

CONCRETE MEDIAN BARRIERS

CONCRETE MEDIAN BARRIER FIXED-FORM OR SLIP-FORM (PERMANENT) RBM-001-11

CONCRETE MEDIAN BARRIER PRECAST (PERMANENT-NEW PAVEMENT) RBM-003-12

CONCRETE MEDIAN BARRIER PRECAST (PERMANENT-EXISTING PAVEMENT) RBM-006-11

CONCRETE MEDIAN BARRIER, SYMMETRICAL & ASYMMETRICAL, SEPARATE & TRANSITION

DETAILS RBM-015-06

DELINEATORS FOR CONCRETE BARRIERS RBM-020-09

CONCRETE MEDIAN BARRIER FIXED-FORM OR SLIP-FORM (PERMANENT) (50” TALL WALL) RBM-060-01

CONCRETE MEDIAN BARRIER PRECAST (PERMANENT) (50” TALL WALL) RBM-053-02

CONCRETE MEDIAN BARRIER, SYMMETRICAL & ASYMMETRICAL, SEPARATE & TRANSITION

DETAILS (50” TALL WALL) RBM-060-01

CONCRETE BARRIER WALL TYPE 9T (TEMPORARY) RBM-115-10

BOX BEAM STIFFENING OF TEMPORARY CONCRETE BARRIER RBM-120-02

CURB TO BARRIER WALL TRANSITION RBM-130-05

CONCRETE MEDIAN BARRIER FIXED-FORM OR SLIP-FORM (PERMANENT) (TL3 42” TALL WALL) Sepia 018

CONCRETE MED BARRIER FIXED-FORM OR SLIP-FORM (PERMANENT) (TL3 42” TALL WALL) NOTES Sepia 018N

SINGLE SLOPE BARRIER TRANSITIONS (TL3 42” TALL WALL) Sepia 004

CONCRETE BARRIER END SECTIONS (TL3 42” TALL WALL) Sepia 005

CONCRETE BARRIER END SECTIONS (TL3 42” TALL WALL) NOTES Sepia 005N

CONCRETE MEDIAN BARRIER FIXED-FORM OR SLIP-FORM (PERMANENT) (TL5 56” TALL WALL) Sepia 019

GUARDRAIL HARDWARE

STEEL BEAM GUARDRAIL (W-BEAM) RBR-001-13

GUARDRAIL COMPONENTS RBR-005-11

GUARDRAIL TERMINAL SECTIONS RBR-010-06

STEEL GUARDRAIL POSTS RBR-015-06

TIMBER GUARDRAIL POSTS RBR-016-05

GUARDRAIL SYSTEM TRANSITION RBR-018

GUARDRAIL END TREATMENT TYPE 1 RBR-020-07

GUARDRAIL END TREATMENT TYPE 2A RBR-025-06

GUARDRAIL END TREATMENT TYPE 3 RBR-030-05

GUARDRAIL END TREATMENT TYPE 3 PIPE DRAINAGE DETAIL RBR-031-01

GUARDRAIL END TREATMENT TYPE 3 ALTERNATE ANCHOR RBR-032

GUARDRAIL END TREATMENT TYPE 4A RBR-035-12

GUARDRAIL END TREATMENT TYPE 7 RBR-050-08

GUARDRAIL END TREATMENT TYPE 7 ALTERNATE ANCHOR RBR-051-01

DELINEATORS FOR GUARDRAIL RBR-005-01

DELINEATORS AT NARROW SHOULDER BRIDGES RBR-060

STEEL BEAM GUARDRAIL (THRIE BEAM) RBR-100-07

***~ DRAINAGE ~***

BOX INLETS AND OUTLETS

*DROP BOXES*

DROP BOX INLET TYPE 1 RDB-001-12

DROP BOX INLET TYPE 2 RDB-002-12

DROP BOX INLET TYPE 3 RDB-003-08

DROP BOX INLET TYPE 4 RDB-004-10

DROP BOX INLET TYPE 5A-5B-5C-5D-5E & 5F RDB-005-09

DROP BOX INLET TYPE 6A-6B-6C-6D-6E & 6F RDB-006-08

DROP BOX INLET TYPE 7 (LAYOUT & STEEL PATTERN) RDB-007-03

DROP BOX INLET TYPE 7 (DIMENSION & STEEL CHART) RDB-008-04

DROP BOX INLET TYPE 10 RDB-010-07

DROP BOX INLET TYPE 11 RDB-011-08

DROP BOX INLET TYPE 12 OR 12A RDB-012-10

DROP BOX INLET TYPE 13 (DETAIL SHEET) RDB-013-07

DROP BOX INLET TYPE 13 AND TYPE 16 (FRAME & GRATE DETAILS) RDB-014-06

DROP BOX INLET TYPE 13 (DETAIL & BAR CHART FOR LID) RDB-015-04

DROP BOX INLET TYPE 13 (PIPE CHAMBER - GRADE CONDITION) RDB-016-03

DROP BOX INLET TYPE 13 (PIPE CHAMBER - SAG CONDITION) RDB-017-03

DROP BOX INLET TYPE 13 (ADDITIONAL STEEL - RISER) RDB-018-04

DROP BOX INLET TYPE 13 (ADDITIONAL STEEL - CHAMBER) RDB-019-04

DROP BOX INLET TYPE 14 & 15 RDB-020-05

DROP BOX INLET TYPE 16 (DETAIL SHEET) RDB-030-04

DROP BOX INLET TYPE 16 (STEEL SHEET) RDB-031-04

DROP BOX INLET TYPE 16 (DETAIL & BAR CHART FOR LID) RDB-032-04

DROP BOX INLET TYPE 16 (DIMENSIONS & ESTIMATE OF QUANTITIES) RDB-033-03

DROP BOX INLET TYPE 16 (ADDITIONAL STEEL - RISER) RDB-034-04

DROP BOX INLET TYPE 16 (ADDITIONAL STEEL - CHAMBER) RDB-035-04

*SLOPED BOXES*

SLOPED BOX OUTLET TYPE 1 RDB-100-05

GRATES FOR SLOPED BOX OUTLET TYPE 1 RDB-101-05

SLOPED AND FLARED BOX INLET-OUTLET 18”-24”-30”-36” ALL SKEWS RDB-105-06

GRATES FOR SLOPED AND FLARED BOX INLET-OUTLET RDB-106-05

SLOPED BOX INLET OR OUTLET TYPE 1 RDB-110-08

SLOPED BOX INLET OR OUTLET TYPE 2 RDB-111-08

METAL END SECTION TYPE 1 & 2 (PARALLEL STRUCTURES) RDB-150-02

METAL END SECTION TYPE 3 & 4 (CROSS STRUCTURES) RDB-155-02

DIMENSIONS FOR METAL END SECTIONS RDB-160-02

*CURB BOXES*

CONCRETE MEDIAN BARRIER BOX INLET (CAST-IN-PLACE) RDB-230-09

CONCRETE MEDIAN BARRIER BOX INLET (SLIP-FORM) RDB-231-11

CONCRETE MEDIAN BARRIER BOX INLET (50” TALL WALL CAST-IN-PLACE) RDB-240-02

CONCRETE MEDIAN BARRIER BOX INLET (50” TALL WALL SLIP-FORM) RDB-241-02

CURB BOX INLET TYPE A (DETAIL DRAWING) RDB-270-09

CURB BOX INLET TYPE A (STEEL DRAWING) RDB-271-05

CURB BOX INLET TYPE A (TOP PHASE TABLES) RDB-272-07

CURB BOX INLET TYPE A (DETAIL & BAR CHART FOR 8” LID) RDB-273-06

CURB BOX INLET TYPE B (DETAIL DRAWING) RDB-280-06

CURB BOX INLET TYPE B (STEEL DRAWING) RDB-281-03

CURB BOX INLET TYPE B (TOP PHASE TABLES) RDB-282-04

CURB BOX INLET TYPE B (DETAIL & BAR CHART FOR 8” LID) RDB-283-04

STANDARD CURB BOX INLET TYPE F RDB-320-06

BOX INLET RISER RDB-400-05

BOX INLET PIPE CHAMBER RDB-410-06

BOX INLET PIPE CHAMBER (ADDITIONAL STEEL) RDB-420-05

PAVED DITCHES, FLUME INLETS AND CHANNEL LININGS

PAVED DITCH TYPE 1 RDD-001-06

PAVED DITCH TYPE 2 RDD-002-07

FLUME INLET TYPE 1 RDD-020-07

FLUME INLET TYPE 2 RDD-021-07

CHANNEL LINING CLASS IA (MATTRESS UNITS) RDD-030-08

CHANNEL LINING CLASS II AND III RDD-040-05

PIPE AND BOX CULVERT HEADWALLS

INCLUDE ANY PIPE/BOX CULVERT HEADWALLS FROM THE HEADWALL SUPPLEMENT (RDH SERIES) HERE

TYPICAL DRAINAGE INSTALLATIONS

CULVERT, ENTRANCE & STORM SEWER PIPE TYPES & COVER HEIGHTS (12” – 24” PIPE) RDI-001-10

CULVERT, ENTRANCE & STORM SEWER PIPE TYPES & COVER HEIGHTS (27” – 42” PIPE) RDI-002-05

CULVERT & STORM SEWER PIPE TYPES & COVER HEIGHTS (48” – 54” PIPE) RDI-003-05

CULVERT & STORM SEWER PIPE TYPES & COVER HEIGHTS (60” – 66” PIPE) RDI-004-04

CULVERT & STORM SEWER PIPE TYPES & COVER HEIGHTS (72” – 78” PIPE) RDI-005-04

CULVERT & STORM SEWER PIPE TYPES & COVER HEIGHTS (84” – 96” PIPE) RDI-006-04

CULVERT & STORM SEWER PIPE TYPES & COVER HEIGHTS (102” – 114” PIPE) RDI-007-04

CULVERT & STORM SEWER PIPE TYPES & COVER HEIGHTS (120” PIPE) RDI-008-04

CULVERT, ENTRANCE & STORM SEWER PIPE TYPES & COVER HEIGHTS (NON-CIRULAR,

15” – 60” PIPE) RDI-011-03

CULVERT & STORM SEWER PIPE TYPES & COVER HEIGHTS (NON-CIRULAR, 66” – 120” PIPE) RDI-012-03

NON-CIRCULAR PIPE ALTERNATES RDI-016-03

PIPE BEDDING FOR CULVERTS, ENTRANCE, AND STORM SEWER PIPE RDI-020-10

PIPE BEDDING FOR CULVERTS, ENTRANCE, AND STORM SEWER, REINFORCED CONC. PIPE RDI-021-01

PIPE BEDDING, TRENCH CONDITION RDI-025-06

PIPE BEDDING, TRENCH CONDITION, REINFORCED CONC. PIPE RDI-026-01

COATINGS, LININGS AND PAVINGS FOR NON-STRUCTURAL PLATE PIPE RDI-035-02

EROSION CONTROL BLANKET SLOPE INSTALLATION RDI-040-01

EROSION CONTROL BLANKET CHANNEL INSTALLATION RDI-041-01

TYPICAL MEDIAN DRAIN INSTALLATIONS RDI-045-02

FILL HEIGHTS FOR PRECAST REINFORCED CONCRETE BOX CULVERTS RDI-100-05

BEDDING FOR PRECAST BOX CULVERTS, SEWERS, STORM DRAINS, AND THEIR COMBINATIONS RDI-120-04

SLOTTED DRAIN PIPE (DETAIL SHEET) RDI-200-05

MANHOLES

MANHOLE TYPE A RDM-001-07

MANHOLE TYPE B RDM-005-06

MANHOLE TYPE C (CHAMBER LAYOUT) RDM-010-06

MANHOLE TYPE C (TOWER APPLICATION) RDM-011-05

MANHOLE TYPE C (STEEL PATTERN) RDM-012-03

MANHOLE TYPE C (TABLE OF QUANTITIES) RDM-013-04

TRAPPED MANHOLE RDM-050-07

MANHOLE STEPS RDM-055

FRAME AND LID TYPE 1 RDM-100-03

FRAME AND LID TYPE 2 RDM-105-03

PERFORATED PIPE

PERFORATED PIPE TYPES AND COVER HEIGHTS RDP-001-06

PERFORATED PIPE FOR SUBGRADE DRAINAGE ON TWO-LANE (CLASS 2) AND MULTI-LANE ROADS RDP-005-05

PERFORATED PIPE UNDERDRAINS (LONGITUDINAL AND TRANSVERSE) RDP-006-04

PERFORATED PIPE DETAILS (SOLID ROCK) RDP-007-04

PERFORATED PIPE HEADWALLS RDP-010-09

MISCELLANEOUS DRAINAGE

JUNCTION BOX RDX-001-06

JUNCTION BOX (DIMENSIONS AND QUANTITIES) RDX-002-04

JUNCTION BOX TYPE B RDX-005-03

SPRING BOX INLET TYPE A RDX-010-05

SPRING BOX INLET TYPE B RDX-011-05

TRAP FOR BOX INLETS RDX-020-05

SUBGRADE DRAINAGE, CONCRETE PAVEMENT RDX-050-05

INTERMEDIATE AND END ANCHORS FOR CIRCULAR PIPE RDX-060-04

INTERMEDIATE AND END ANCHORS FOR NON-CIRCULAR PIPE RDX-065-04

SIDE TAPERED INLETS – 30” TO 60” DIA. ALL SLOPES - ALL SKEWS RDX-150-06

SECURITY DEVICES FOR FRAMES, GRATES AND LIDS RDX-160-06

SECURITY PLATE ASSEMBLY Sepia 020

TEMPORARY SILT FENCE RDX-210-03

TEMPORARY SILT FENCE WITH WOVEN WIRE FENCE FABRIC RDX-215-01

SILT TRAP - TYPE A RDX-220-05

SILT TRAP - TYPE B RDX-225-01

SILT TRAP - TYPE C RDX-230-01

CHANNEL HABITAT IMPROVEMENT STRUCTURES (DUMPED STONE) RDX-240-04

CHANNEL HABITAT IMPROVEMENT STRUCTURES (GABIONS) RDX-245-04

PRECAST BOX CULVERT EXTENSION RDX-300-04

***~ FENCES AND GATES ~***

CHAIN LINK FENCE

CHAIN LINK FENCE 4’ TO 6’ HIGH RFC-001-08

CHAIN LINK FENCE 8’ TO 12’ HIGH RFC-002-05

GATES

WOVEN WIRE GATES RFG-001-07

4’ TO 12’ HIGH CHAIN LINK GATE RFG-005-06

WATER GATE TYPE 1 AND TYPE 2 RFG-010-05

WATER GATE TYPE 3 RFG-011-06

WOVEN WIRE FENCE

FENCING DETAILS RFW-001-06

WOVEN WIRE FENCE TYPE 1 RFW-005-08

WOVEN WIRE FENCE TYPE 2 RFW-006-07

***~ GENERAL ~***

CURVE WIDENING AND SUPERELEVATION

CURVE WIDENING AND SUPERELEVATION TRANSITIONS RGS-001-07

SUPERELEVATION FOR MULTILANE PAVEMENTS RGS-002-06

MISCELLANEOUS STANDARDS

MISCELLANEOUS STANDARDS RGX-001-06

TEMPORARY BRIDGE OR PAVEMENT CROSSOVER RGX-003-03

RIGHT OF WAY MONUMENTS RGX-005-06

TYPICAL EMBANKMENT FOUNDATION BENCHES RGX-010-04

SETTLEMENT PLATFORM RGX-015-03

CONCRETE STEPS RGX-020-13

HANDRAIL TYPE A, A-1, A-2, A-3, A-4 RGX-030-07

DETECTABLE WARNINGS RGX-040-03

GABION RETAINING WALLS RGX-050-02

BREAKAWAY SIGN SUPPORT SYSTEM FOR TYPE C BEAM RGX-060-01

FOOTING DETAILS FOR TYPE C BEAM RGX-061-01

TYPE D BREAKAWAY SIGN SUPPORT RGX-065-02

TREATMENT OF EMBANKMENTS AT END-BENTS RGX-100-07

TREATMENT OF EMBANKMENTS AT END-BENTS – DETAILS RGX-105-09

ONE POINT PROCTER FAMILY OF CURVES RGX-200-01

***~ PAVEMENT ~***

MEDIANS, CURBS, APPROACHES, ENTRANCES, ETC.

PERMANENT U-TURN MEDIAN OPENING RPM-001-04

STANDARD BARRIER MEDIAN RPM-010-06

MOUNTABLE MEDIAN RPM-011-06

MOUNTABLE MEDIAN TYPE 6A RPM-012-04

MOUNTABLE MEDIAN TYPE 7A RPM-015-04

CURB AND GUTTER, CURBS AND VALLEY GUTTER RPM-100-11

APPROACHES, ENTRANCES, AND MAIL BOX TURNOUT RPM-110-07

CONCRETE TERMINAL SECTION TYPE 1 RPM-115-05

ISLAND CURB CONSTRUCTION DETAILS (RIGID & FLEXIBLE PAVEMENT) RPM-120-07

PRECAST VEHICLE STOP RPM-130-04

RUMBLE STRIPS TYPE 3 RPM-145-04

CONCRETE ENTRANCE PAVEMENT AND SIDEWALK RPM-150-08

CONCRETE ENTRANCE PAVEMENT AND SIDEWALK RPM-152-08

SIDEWALK RAMPS RPM-170-09

SIDEWALK RAMP WITH HANDRAIL RPM-172-07

NON-REINFORCED CONCRETE PAVEMENT

NON-REINFORCED CONCRETE PAVEMENT FOR SHOULDERS AND MEDIANS RPN-001-07

PAVEMENT TRANSITIONS AND JOINT DETAILS FOR NON-REINFORCED CONCRETE PAVEMENT

AT BRIDGE ENDS RPN-010-07

NON-REINFORCED CONCRETE PAVEMENT RPN-015-05

CONCRETE PAVEMENT JOINTS - TYPES & SPACING RPN-020-04

STANDARD REINFORCED CONCRETE PAVEMENT

CONCRETE PAVEMENT JOINT DETAILS RPS-010-11

EXPANSION AND CONTRACTION JOINT LOAD TRANSFER ASSEMBLIES RPS-020-14

CONCRETE PAVEMENT JOINTS - TYPES AND SPACING RPS-030-06

CONCRETE PAVEMENT JOINTS - TYPES AND SPACING RPS-031-06

CONCRETE PAVEMENT JOINTS - TYPES AND SPACING RPS-032-06

CONCRETE PAVEMENT JOINTS - TYPES AND SPACING RPS-033-07

CONCRETE PAVEMENT JOINTS - TYPES AND SPACING RPS-034-07

CONCRETE PAVEMENT JOINTS - TYPES AND SPACING RPS-035-06

CONCRETE PAVEMENT JOINTS - TYPES AND SPACING RPS-036-06

CONCRETE PAVEMENT JOINTS - TYPES AND SPACING RPS-037-06

CONCRETE PAVEMENT JOINTS - TYPES AND SPACING RPS-038-06

CONCRETE PAVEMENT JOINTS - TYPES AND SPACING RPS-039-06

MISCELLANEOUS PAVING

STATION MARKINGS, CONCRETE PAVEMENT RPX-001-04

PREFORMED COMPRESSION JOINT SEAL FOR CONCRETE PAVEMENT RPX-010-05

HOT POURED ELASTIC JOINT SEALS FOR CONCRETE PAVEMENT RPX-015-04

SILICONE RUBBER SEALS USED IN PORTLAND CONCRETE PAVEMENT RPX-020-06

ACCESSIBLE PARKING SPACE DETAILS RPX-100-03

**TRAFFIC**

***~ PERMANENT ~***

MARKERS

INLAID PAVEMENT MARKER ARRANGEMENTS MULTI-LANE ROADWAYS Sepia 006

INLAID PAVEMENT MARKER ARRANGEMENTS MULTI-LANE ROADWAYS Sepia 007

INLAID PAVEMENT MARKER ARRANGEMENTS MULTI-LANE ROADWAYS Sepia 008

INLAID PAVEMENT MARKER ARRANGEMENTS TWO-LANE TWO-WAY ROADWAYS Sepia 009

INLAID PAVEMENT MARKER ARRANGEMENT TWO-LANE TO FOUR-LANE TRANSITIONS Sepia 010

INLAID PAVEMENT MARKER ARRANGEMENT EXIT-GORE AND OFF-RAMP Sepia 011

INLAID PAVEMENT MARKER ARRANGEMENTS FOR PARALLEL DECELERATION LANE Sepia 012

INLAID PAVEMENT MARKER ARRANGEMENTS ON-RAMP WITH TAPERED ACCELERATION LANE Sepia 013

INLAID PAVEMENT MARKER ARRANGEMENT ON-RAMP WITH PARALLEL ACCELERATION LANE Sepia 014

INLAID PAVEMENT MARKER ARRANGEMENTS TWO-WAY LEFT TURN LANE Sepia 015

INLAID PAVEMENT MARKER ARRANGEMENT CHANNELIZED INTERSECTION Sepia 016

FLEXIBLE DELINEATOR POST ARRANGEMENTS FOR HORIZONTAL CURVES TPM-170-01

FLEXIBLE DELINEATOR POST ARRANGEMENTS FOR INTERCHANGE RAMPS AND CROSSOVERS TPM-171-01

PAVEMENT STRIPING DETAILS FOR TWO LANE TWO WAY ROADWAYS Sepia 032

TYPICAL ENTRANCE RAMP MARKINGS TPM-200

TYPICAL EXIT RAMP MARKINGS PAGE 1 TPM-201

TYPICAL EXIT RAMP MARKINGS PAGE 2 TPM-202

TYPICAL MARKINGS AT SIGNALIZED INTERSECTIONS TPM-203

TYPICAL MARKINGS FOR GORE AREAS TPM-204

TYPICAL MARKINGS FOR ISLANDS AND MEDIANS TPM-205

TYPICAL MARKINGS FOR TURN LANES PAGE 1 TPM-206

TYPICAL MARKINGS FOR TURN LANES PAGE 2 TPM-207

RUMBLE STRIPS

CENTERLINE RUMBLE STRIPS TPR-100

CENTERLINE RUMBLE STRIPS 4 INCH STRIPING Sepia 026

CENTERLINE RUMBLE STRIPS 6 INCH STRIPING Sepia 027

EDGELINE RUMBLE STRIPS PLACEMENT DETAILS Sepia 028

EDGELINE RUMBLE STRIP DETAILS TWO LANE ROADWAYS Sepia 029

EDGELINE RUMBLE STRIP DETAILS TWO LANE ROADWAYS Sepia 029N

RUMBLE STRIP DETAILS MULTI-LANE ROADWAYS AND RAMPS Sepia 030

***~ TEMPORARY ~***

TRAFFIC CONTROL

LANE CLOSURE TWO-LANE HIGHWAY TTC-100-05

LANE CLOSURE USING TRAFFIC SIGNALS TTC-110-04

LANE CLOSURE MULTI-LANE HIGHWAY CASE I TTC-115-04

LANE CLOSURE MULTI-LANE HIGHWAY CASE II TTC-120-04

DOUBLE LANE CLOSURE TTC-125-04

SHOULDER CLOSURE TTC-135-03

MEDIAN CROSSOVER CASE I TTC-140-04

MEDIAN CROSSOVER CASE I TTC-141-04

MEDIAN CROSSOVER CASE II TTC-145-04

MEDIAN CROSSOVER CASE II TTC-146-04

ROAD CLOSURE WITH DIVERSION TTC-150-04

TEMPORARY PAVEMENT MARKER ARRANGEMENTS FOR CONSTRUCTION ZONES TTC-155-02

TEMPORARY PAVEMENT MARKER ARRANGEMENTS FOR LANE CLOSURES TTC-160-02

AUTOMATED FLAGGING ASSISTANCE DEVICES TTC-165

DEVICES

DOUBLE FINES ZONE SIGNS TTD-120-03

PAVEMENT CONDITION WARNING SIGNS TTD-125-03

SPEED ZONE SIGNING FOR WORK ZONES TTD-130

STRIPING OPERATIONS

MOBILE OPERATION FOR PAINT STRIPING CASE I TTS-100-02

MOBILE OPERATION FOR PAINT STRIPING CASE II TTS-105-02

MOBILE OPERATION FOR PAINT STRIPING CASE III TTS-110-02

MOBILE OPERATION FOR PAINT STRIPING CASE IV TTS-115-02

MOBILE OPERATION FOR DURABLE STRIPING CASE I TTS-120-02

MOBILE OPERATION FOR DURABLE STRIPING CASE II TTS-125-02

MOBILE OPERATION FOR DURABLE STRIPING CASE III TTS-130-02

MOBILE OPERATION FOR DURABLE STRIPING CASE IV TTS-135-02

**BRIDGES**

***~ BEARING DEVICES ~***

BEARING PADS

ELASTOMETRIC BEARING PADS FOR PRESTRESSED BEAMS BBP-001-12

BEARING DETAILS BBP-002-04

ELASTOMETRIC BEARING PADS FOR BOX BEAMS BBP-003-02

***~ DECK UNITS ~***

PRECAST PRESTRESSED

BOX BEAM GENERAL NOTES & REFERENCES BDP-001-06

BOX BEAM BEARING DETAILS BDP-002-03

BOX BEAM MISCELLANEOUS DETAILS BDP-003-03

BOX BEAM TENSION ROD DETAILS BDP-004-04

RAILING SYSTEM TYPE II BDP-005-04

BOX BEAM B12 & CB12 DETAILS BDP-006-05

BOX BEAM B17 & CB17 DETAILS BDP-007-05

BOX BEAM B21 & CB21 DETAILS BDP-008-04

BOX BEAM B27 & CB27 DETAILS BDP-009-04

BOX BEAM B33 & CB33 DETAILS BDP-010-04

BOX BEAM B42 DETAILS BDP-011-04

BOX BEAM CB42 DETAILS BDP-012-04

SLAB BRIDGE FOR 12” & 17” BEAMS BDP-013-04

***~ GENERAL ~***

MISCELLANEOUS STANDARDS

CONCRETE SLOPEWALLS FOR GRADE SEPARATION BRIDGES BGX-004-09

CONCRETE SLOPEWALLS FOR GRADE SEPARATION BRIDGES BGX-005-09

STENCILS FOR STRUCTURES BGX-006-10

BRIDGE RESTORATION AND WATERPROOFING WITH CONCRETE OVERLAYS BGX-009-04

GEOTECHNICAL LEGEND BGX-012-02

BRIDGE DRAINS BGX-015-04

LOW FLOW DIVERSION CURB BGX-016-01

APPROACH SLAB BGX-017-03

TREATMENT OF OPEN SINKHOLES BGX-018

24 INCH JUNCTION BOX SINGLE SLOPE AND VERTICAL BARRIER BGX-019

24 INCH JUNCTION BOX TYPE 3 BARRIER BGX-020

JUNCTION BOX TYPE-A BGX-021

JOINT WATERPROOFING BGX-022

STANDARD GRAVITY WALL BGX-023

STANDARD GRAVITY WALL BGX-024

CHAINLINK FENCE BGX-025

AIR VENT DETAILS BGX-026

***~ HANDRAIL ~***

STEEL HANDRAIL

RAILING SYSTEM, TYPE II, GUARDRAIL TREATMENT SEPIA-001

RAIL SYSTEM TYPE 3 SEPIA-002

RAILING SYSTEM 36 INCH SINGLE SLOPE BHS-009

RAILING SYSTEM 40 INCH SINGLE SLOPE BHS-010

RAILING SYSTEM SIDE MOUNTED MGS DETAILS BHS-011

RAILING SYSTEM TYPE T631 DETAILS BHS-012

THRIE-BEAM GUARDRAIL TRANSITION (TL-2) BHS-013

THRIE-BEAM GUARDRAIL TRANSITION (TL-3) BHS-014

ALUMINUM HANDRAIL BHS-015

STEEL HANDRAIL BHS-016

***~ JOINTS AND EXPANSION DEVICES ~***

ARMORED EDGES

ARMORED EDGES BJE-001-14

EXPANSION JOINTS BJE-002

EXPANSION JOINT REPLACEMENT 1”-3” BJE-003

EXPANSION JOINT COVER PLATE DETAILS BJE-004

EXPANSION JOINT REPLACEMENT GENERAL NOTES BJE-005

EXPANSION JOINT REPLACEMENT 4” & 5” BJE-006

***~ PILING ~***

CONCRETE PILES

14” REINFORCED CONCRETE PILE BPC-002-08

PRECAST PRESTRESSED 14” CONCRETE PILE BPC-011-07

STEEL PILES

HP12 X 53 BEARING PILE BPS-003-09

HP14 X 73 BEARING PILE BPS-009-08

HP14 X 89 BEARING PILE BPS-011-04

PIPE PILE 16 INCH BPS-012

***~ BRIDGE STANDARDS ~***

ABUTMENTS

0° SKEW SUPPORT VARIABLE WIDTH ABUTMENT 50% SKEWED WINGS BSA-001

0° SKEW SUPPORT VARIABLE WIDTH ABUTMENT 50% SKEWED WINGS BSA-002

5° SKEW SUPPORT VARIABLE WIDTH ABUTMENT 50% SKEWED WINGS BSA-003

5° SKEW SUPPORT VARIABLE WIDTH ABUTMENT 50% SKEWED WINGS BSA-004

10° SKEW SUPPORT VARIABLE WIDTH ABUTMENT 50% SKEWED WINGS BSA-005

10° SKEW SUPPORT VARIABLE WIDTH ABUTMENT 50% SKEWED WINGS BSA-006

15° SKEW SUPPORT VARIABLE WIDTH ABUTMENT 50% SKEWED WINGS BSA-007

15° SKEW SUPPORT VARIABLE WIDTH ABUTMENT 50% SKEWED WINGS BSA-008

20° SKEW SUPPORT VARIABLE WIDTH ABUTMENT 50% SKEWED WINGS BSA-009

20° SKEW SUPPORT VARIABLE WIDTH ABUTMENT 50% SKEWED WINGS BSA-010

25° SKEW SUPPORT VARIABLE WIDTH ABUTMENT 50% SKEWED WINGS BSA-011

25° SKEW SUPPORT VARIABLE WIDTH ABUTMENT 50% SKEWED WINGS BSA-012

30° SKEW SUPPORT VARIABLE WIDTH ABUTMENT 50% SKEWED WINGS BSA-013

30° SKEW SUPPORT VARIABLE WIDTH ABUTMENT 50% SKEWED WINGS BSA-014

35° SKEW SUPPORT VARIABLE WIDTH ABUTMENT 50% SKEWED WINGS BSA-015

35° SKEW SUPPORT VARIABLE WIDTH ABUTMENT 50% SKEWED WINGS BSA-016

40° SKEW SUPPORT VARIABLE WIDTH ABUTMENT 50% SKEWED WINGS BSA-017

40° SKEW SUPPORT VARIABLE WIDTH ABUTMENT 50% SKEWED WINGS BSA-018

45° SKEW SUPPORT VARIABLE WIDTH ABUTMENT 50% SKEWED WINGS BSA-019

45° SKEW SUPPORT VARIABLE WIDTH ABUTMENT 50% SKEWED WINGS BSA-020

0° SKEW SUPPORT VARIABLE WIDTH ABUTMENT 25% SKEWED WINGS BSA-021

0° SKEW SUPPORT VARIABLE WIDTH ABUTMENT 25% SKEWED WINGS BSA-022

5° SKEW SUPPORT VARIABLE WIDTH ABUTMENT 25% SKEWED WINGS BSA-023

5° SKEW SUPPORT VARIABLE WIDTH ABUTMENT 25% SKEWED WINGS BSA-024

10° SKEW SUPPORT VARIABLE WIDTH ABUTMENT 25% SKEWED WINGS BSA-025

10° SKEW SUPPORT VARIABLE WIDTH ABUTMENT 25% SKEWED WINGS BSA-026

15° SKEW SUPPORT VARIABLE WIDTH ABUTMENT 25% SKEWED WINGS BSA-027

15° SKEW SUPPORT VARIABLE WIDTH ABUTMENT 25% SKEWED WINGS BSA-028

20° SKEW SUPPORT VARIABLE WIDTH ABUTMENT 25% SKEWED WINGS BSA-029

20° SKEW SUPPORT VARIABLE WIDTH ABUTMENT 25% SKEWED WINGS BSA-030

25° SKEW SUPPORT VARIABLE WIDTH ABUTMENT 25% SKEWED WINGS BSA-031

25° SKEW SUPPORT VARIABLE WIDTH ABUTMENT 25% SKEWED WINGS BSA-032

30° SKEW SUPPORT VARIABLE WIDTH ABUTMENT 25% SKEWED WINGS BSA-033

30° SKEW SUPPORT VARIABLE WIDTH ABUTMENT 25% SKEWED WINGS BSA-034

35° SKEW SUPPORT VARIABLE WIDTH ABUTMENT 25% SKEWED WINGS BSA-035

35° SKEW SUPPORT VARIABLE WIDTH ABUTMENT 25% SKEWED WINGS BSA-036

40° SKEW SUPPORT VARIABLE WIDTH ABUTMENT 25% SKEWED WINGS BSA-037

40° SKEW SUPPORT VARIABLE WIDTH ABUTMENT 25% SKEWED WINGS BSA-038

45° SKEW SUPPORT VARIABLE WIDTH ABUTMENT 25% SKEWED WINGS BSA-039

45° SKEW SUPPORT VARIABLE WIDTH ABUTMENT 25% SKEWED WINGS BSA-040

0° SKEW SUPPORT VARIABLE WIDTH ABUTMENT PARALLEL WINGS BSA-041

0° SKEW SUPPORT VARIABLE WIDTH ABUTMENT PARALLEL WINGS BSA-042

5° SKEW SUPPORT VARIABLE WIDTH ABUTMENT PARALLEL WINGS BSA-043

5° SKEW SUPPORT VARIABLE WIDTH ABUTMENT PARALLEL WINGS BSA-044

10° SKEW SUPPORT VARIABLE WIDTH ABUTMENT PARALLEL WINGS BSA-045

10° SKEW SUPPORT VARIABLE WIDTH ABUTMENT PARALLEL WINGS BSA-046

15° SKEW SUPPORT VARIABLE WIDTH ABUTMENT PARALLEL WINGS BSA-047

15° SKEW SUPPORT VARIABLE WIDTH ABUTMENT PARALLEL WINGS BSA-048

20° SKEW SUPPORT VARIABLE WIDTH ABUTMENT PARALLEL WINGS BSA-049

20° SKEW SUPPORT VARIABLE WIDTH ABUTMENT PARALLEL WINGS BSA-050

25° SKEW SUPPORT VARIABLE WIDTH ABUTMENT PARALLEL WINGS BSA-051

25° SKEW SUPPORT VARIABLE WIDTH ABUTMENT PARALLEL WINGS BSA-052

30° SKEW SUPPORT VARIABLE WIDTH ABUTMENT PARALLEL WINGS BSA-053

30° SKEW SUPPORT VARIABLE WIDTH ABUTMENT PARALLEL WINGS BSA-054

35° SKEW SUPPORT VARIABLE WIDTH ABUTMENT PARALLEL WINGS BSA-055

35° SKEW SUPPORT VARIABLE WIDTH ABUTMENT PARALLEL WINGS BSA-056

40° SKEW SUPPORT VARIABLE WIDTH ABUTMENT PARALLEL WINGS BSA-057

40° SKEW SUPPORT VARIABLE WIDTH ABUTMENT PARALLEL WINGS BSA-058

45° SKEW SUPPORT VARIABLE WIDTH ABUTMENT PARALLEL WINGS BSA-059

45° SKEW SUPPORT VARIABLE WIDTH ABUTMENT PARALLEL WINGS BSA-060

0° SKEW 16’-0” - 17’-6” BRIDGE WIDTH ABUTMENT 2:1 FILL SLOPES, 4’-0” MIN. SHOULDER BSA-101

0° SKEW 24’-0” - 25’-6” BRIDGE WIDTH ABUTMENT 2:1 FILL SLOPES, 4’-0” MIN. SHOULDER BSA-102

0° SKEW 32’-0” - 33’-6” BRIDGE WIDTH ABUTMENT 2:1 FILL SLOPES, 4’-0” MIN. SHOULDER BSA-103

15° SKEW 16’-0” - 17’-6” BRIDGE WIDTH ABUTMENT 2:1 FILL SLOPES, 4’-0” MIN. SHOULDER BSA-104

15° SKEW 24’-0” - 25’-6” BRIDGE WIDTH ABUTMENT 2:1 FILL SLOPES, 4’-0” MIN. SHOULDER BSA-105

15° SKEW 32’-0” - 33’-6” BRIDGE WIDTH ABUTMENT 2:1 FILL SLOPES, 4’-0” MIN. SHOULDER BSA-106

30° SKEW 16’-0” - 17’-6” BRIDGE WIDTH ABUTMENT 2:1 FILL SLOPES, 4’-0” MIN. SHOULDER BSA-107

30° SKEW 24’-0” - 25’-6” BRIDGE WIDTH ABUTMENT 2:1 FILL SLOPES, 4’-0” MIN. SHOULDER BSA-108

30° SKEW 32’-0” - 33’-6” BRIDGE WIDTH ABUTMENT 2:1 FILL SLOPES, 4’-0” MIN. SHOULDER BSA-109

45° SKEW 16’-0” - 17’-6” BRIDGE WIDTH ABUTMENT 2:1 FILL SLOPES, 4’-0” MIN. SHOULDER BSA-110

45° SKEW 24’-0” - 25’-6” BRIDGE WIDTH ABUTMENT 2:1 FILL SLOPES, 4’-0” MIN. SHOULDER BSA-111

45° SKEW 32’-0” - 33’-6” BRIDGE WIDTH ABUTMENT 2:1 FILL SLOPES, 4’-0” MIN. SHOULDER BSA-112

BEAMS

H20 STEEL BEAM STANDARDS BSB-001

KYHL-93 STEEL BEAM STANDARDS BSB-002

SLAB AND END DIAPHRAGM DETAILS BSB-003

ROLLED STEEL DIAPHRAGM DETAILS BSB-004

ROLLED STEEL DIAPHRAGM DETAILS BSB-005

COMPOSITE STEEL BEAM SUPERSTRUCTURES DIAPHRAGMS CONTINUED BSB-006

COMPOSITE STEEL BEAM SUPERSTRUCTURES GENERAL NOTES BSB-101

COMPOSITE STEEL BEAM SUPERSTRUCTURES BEAM TABLES BSB-102

COMPOSITE STEEL BEAM SUPERSTRUCTURES SLAB DETAILS BSB-103

COMPOSITE STEEL BEAM SUPERSTRUCTURES FRAMING PLAN/DIAPHRAGMS BSB-104

COMPOSITE STEEL BEAM SUPERSTRUCTURES DIAPHRAGMS CONTINUED BSB-105

CULVERTS

STANDARD CULVERT 4’-0” WIDTH BSC-001

STANDARD CULVERT 6’-0” WIDTH BSC-002

STANDARD CULVERT 8’-0” WIDTH BSC-003

STANDARD CULVERT 10’-0” WIDTH BSC-004

STANDARD CULVERT 12’-0” WIDTH BSC-005

STANDARD CULVERT 14’-0” WIDTH BSC-006

STANDARD CULVERT 16’-0” WIDTH BSC-007

DIAPHRAMS

BOX BEAM DIAPHRAGMS BSD-001

PPC I-BEAMS SKEWED STEEL CROSS FRAME DETAILS BSD-002

PPC I-BEAM 0° SKEW STEEL CROSS FRAME DETAILS BSD-003

PPC I-BEAM TYPE 2 DIAPHRAGM DETAILS BSD-004

PPC I-BEAM TYPE 3 DIAPHRAGM DETAILS BSD-005

PRESTRESSED PREFORMED CONCRETE I-BEAM TYPE 4 DIAPHRAGM DETAILS BSD-006

PPC I-BEAM HN36 DIAPHRAGM DETAILS BSD-007

PPC I-BEAM HN42 DIAPHRAGM DETAILS BSD-008

PPC I-BEAM HN48 AND HN54 DIAPHRAGM DETAILS BSD-009

END BENTS

PILE END BENT 0° SKEW BSE-001

PILE END BENT 15° SKEW BSE-002

PILE END BENT 30° SKEW BSE-003

PILE END BENT 45° SKEW BSE-004

STANDARD PIERS

STANDARD PIER 0° SKEW 16’-0” – 17’-6” BRIDGE WIDTH BSP-001

STANDARD PIER 0° SKEW 24’-0” – 25’-6” BRIDGE WIDTH BSP-002

STANDARD PIER 0° SKEW 32’-0” – 33’-6” BRIDGE WIDTH BSP-003

STANDARD PIER 15° SKEW 16’-0” – 17’-6” BRIDGE WIDTH BSP-004

STANDARD PIER 15° SKEW 24’-0” – 25’-6” BRIDGE WIDTH BSP-005

STANDARD PIER 15° SKEW 32’-0” – 33’-6” BRIDGE WIDTH BSP-006

STANDARD PIER 30° SKEW 16’-0” – 17’-6” BRIDGE WIDTH BSP-007

STANDARD PIER 30° SKEW 24’-0” – 25’-6” BRIDGE WIDTH BSP-008

STANDARD PIER 30° SKEW 32’-0” – 33’-6” BRIDGE WIDTH BSP-009

STANDARD PIER 45° SKEW 16’-0” – 17’-6” BRIDGE WIDTH BSP-010

STANDARD PIER 45° SKEW 24’-0” – 25’-6” BRIDGE WIDTH BSP-011

STANDARD PIER 45° SKEW 32’-0” – 33’-6” BRIDGE WIDTH BSP-012