STANDARD SPECIFICATIONS Book 2

ENGINEERING DRAWINGS

(Not To Scale)

INCLUDES ADDENDUMS

INDEX

STANDARD ENGINEERING DRAWINGS

STANDARD LEGEND SYMBOLS (March, 2024) AS-101A

REMOVED AS-101B

PROJECT SIGN (January, 2016) AS-102

REMOVED AS-103

BENCH MARK PLATE (March, 2024) AS-104

REMOVED AS-105

BARRIER POST (January, 2024) AS-106

REMOVABLE BARRIER POST (January, 2024) AS-106A

STEEL REINFORCED BARRIER POST (January, 2024) AS-106B

CONCRETE ALLEY PAVEMENT (March, 2024) AS-201

COMMERCIAL APPROACH - NO CURB (January, 2024) AS-203

COMMERCIAL DRIVE – CONCRETE (March, 2024) AS-204

REMOVED AS-205

STANDARD UTILITY CROSS-SECTION (17M RIGHT OF WAY) (January, 2024) AS-206A

STANDARD UTILITY CROSS-SECTION (22M RIGHT OF WAY) (January, 2024) AS-206B

STANDARD UTILITY CROSS-SECTION (15M RIGHT OF WAY) (October, 2015) AS-206C

STANDARD UTILITY CROSS-SECTION (20M RIGHT OF WAY) (July, 2013) AS-206D

UTILITY RESTORATION FOR CONCRETE PAVEMENT (August, 2012) AS-207A

UTILITY RESTORATION FOR FLEXIBLE BASE PAVEMENT (August, 2012) AS-207B

UTILITY RESTORATION FOR CONCRETE PAVEMENT (August, 2012) AS-207C
ASPHALT SURFACE

STANDARD AND SUPERELEVATED CURB AND GUTTER (March, 2025) AS-208
FOR RESIDENTIAL ROADS

STANDARD AND SUPERELEVATED CURB AND GUTTER (March, 2025) AS-208A
FOR COLLECTOR & ARTERIAL ROADS

DRIVEWAY APPROACH ACROSS CULVERT (May, 2024) AS-209

BACKFILL OF DITCH/SWALE/TRENCH (May, 2024) AS-209A

STANDARD CONCRETE DETAILS FOR HEAVY DUTY PAVEMENTS (June, 2024) AS-210

STANDARD CONCRETE DETAILS FOR RESIDENTIAL PAVEMENTS (March, 2024) AS-211

LOAD TRANSFER DEVICE RIGHT ANGLE CONTRACTION JOINT (Dec, 2024)..... AS-212

LOAD TRANSFER DEVICE RIGHT ANGLE EXPANSION JOINT (Dec, 2024) AS-212A

TIE BAR DEVICE RIGHT ANGLE CONTRACTION JOINT (Dec, 2024)…….....AS-212B

UTILITY ISOLATION IN PAVEMENT DETAILS (March, 2024)..... AS-213

8.6 m WIDE RESIDENTIAL ASPHALT PAVEMENT (July, 2013)..... AS-214

STEEL BEAM GUIDE RAIL (January, 2024) AS-215

CURB REPLACEMENT WITHIN VARIOUS PAVEMENTS (March, 2024) AS-216

REMOVED..... AS-217

REMOVED..... AS-218

REMOVED..... AS-219

REMOVED..... AS-220

RESIDENTIAL DRIVE – ASPHALT (January, 2024)..... AS-221

RESIDENTIAL DRIVE – CONCRETE (March, 2024)..... AS-222

REMOVED..... AS-223

TREE RELOCATION (May, 2024) AS-224

LOCAL INDUSTRIAL CONCRETE PAVEMENT (June, 2024)..... AS-225

RURAL ARTERIAL CONCRETE PAVEMENT (June, 2024) AS-226

RURAL RESIDENTIAL CONCRETE PAVEMENT (June, 2024) AS-227

VARIOUS STREET ALIGNMENTS PERMITTING THE USAGE OF (June, 2024) AS-228
7.3m WIDE PAVEMENTS

EMERGENCY VEHICULAR ACCESSES (January, 2007)..... AS-229

STANDARD CORNER CUT-OFF AND LAND CONVEYANCE (January, 2009).....AS-230

STANDARD CATCH BASIN - FRAME AND COVER (March, 2024) AS-301

CAST IRON, RAISED CURB INLET FRAME WITH COVER (January, 2024) AS-301A
FOR CATCH BASINS OUT OF ROADWAY

CAST IRON, CURB INLET FRAME WITH TWO PIECE RAISED COVER (March, 2024)..... AS-301B
FOR CATCH BASINS OUT OF ROADWAY

REMOVED..... AS-302

REMOVED.....AS-303

STANDARD MANHOLE FRAME AND COVER (March, 2024).....AS-304

REMOVED.....AS-304A

DETAIL OF TYPICAL MANHOLE STEP (March, 2024).....AS-305

REMOVED.....AS-306

STANDARD GOSS GULLY TRAP (August, 2014)`.....AS-307

600mm X 600mm PRECAST CONCRETE CATCH BASIN (with goss gully trap) (March, 2024) AS-309

600mm X 600mm PRECAST CONCRETE CATCH BASIN (March, 2024) AS-309A

BEDDING DETAIL FOR SEWER PIPE – CLASS "A" (March, 2024) AS-310A

CLASS "B" BEDDING DETAIL VARIOUS CASES (June, 2024) AS-310B

REMOVED.....AS-310C

REMOVED.....AS-311

REMOVED.....AS-312

PRIVATE DRAIN CONNECTION DETAILS (June 2024).....AS-313

WATERPROOFING AND FROST STRAPPING FOR SANITARY MAINTENANCE HOLES (March, 2025) AS-314

PRECAST MAINTENANCE HOLE 1200mm DIAMETER (March, 2025).....AS-314A

PRECAST MAINTENANCE HOLE 1500mm DIAMETER (March, 2025).....AS-314B

PRECAST MAINTENANCE HOLE 1800mm DIAMETER (March, 2025).....AS-314C

PRECAST MAINTENANCE HOLE 2400mm DIAMETER (March, 2025).....AS-314D

PRECAST MAINTENANCE HOLE 3000mm DIAMETER (March, 2025).....AS-314E

REMOVED AND REPLACED WITH AS-309A.....AS-315

REMOVED.....AS-315A

REMOVED.....AS-316

REMOVED.....AS-317

REMOVED.....AS-318

COMPACTION OF SEWER AND UTILITY TRENCHES IN SUBDIVISIONS (November, 1975).....AS-319

REMOVED **AS-320**

CATCH BASIN BOX-OUT FOR ASPHALT PAVEMENT (March, 2024) **AS-321**

REMOVED **AS-322**

REMOVED **AS-323**

REMOVED **AS-324**

CLEANOUT AT PROPERTY LINE (June, 2024) **AS-325**

RESIDENTIAL CONCRETE SIDEWALK (May, 2024) **AS-401**

RESIDENTIAL CONCRETE SIDEWALK ADJACENT TO CURB (May, 2024) **AS-401A**
AND GUTTER

SIDEWALK – WHEEL CHAIR RAMP (May, 2024) **AS-402**

COMMERCIAL CONCRETE SIDEWALK (May, 2024) **AS-403**

COMMERCIAL CONCRETE SIDEWALK ADJACENT TO CURB (May, 2024) **AS-403A**
AND GUTTER

WHEEL CHAIR RAMPS & PEDESTRIAN CROSSINGS (December, 2015) **AS-404**
AT INTERSECTIONS AND CUL-DE-DAC SIDEWALK TERMINATION

MANHOLE FOR DUAL SEWERS (June, 2024) **AS-501**

REMOVED **AS-502**

SANITARY SEWER INSPECTION PLATE (June, 2024) **AS-503**

REMOVED **AS-504**

REMOVED **AS-505**

TYPICAL PARALLEL STREET FURNITURE LAYOUTS (April, 2015) **AS-505A**

TYPICAL SKEWED STREET FURNITURE LAYOUTS (April, 2015) **AS-505B**

SIDEWALK ADJACENT TO CURB AND GUTTER (May, 2024) **AS-506**

GUIDELINES FOR TUNNELING LENGTHS NEAR OR AT TREES (August, 1998) **AS-507**

ORNAMENTAL RESIDENTIAL STREET LIGHT - TYPE III (May, 1980) **AS-508**

STANDARD RESIDENTIAL STREET LIGHT – TYPE I (May, 1980) **AS-509**

POST TOP RESIDENTIAL STREET LIGHT – TYPE II (August, 1980) **AS-510**

CONTEMPORARY LUMINAIRE STANDARD (July, 1982) **AS-511**

REMOVED **AS-512**

REMOVED **AS-513**

STONE PIT (March, 2024) **AS-514**

SUB DRAIN AT CATCH BASIN (July, 1987) **AS-515**

MEDIAN END TREATMENT (November, 1987) **AS-516**

REMOVED **AS-517**

REMOVED **AS-518**

REMOVED **AS-519**

REMOVED **AS-520**

ORNAMENTAL STREET LIGHT SINGLE LUMINAIRE – TYPE II (April, 1994) **AS-521**

ORNAMENTAL STREET LIGHT DOUBLE LUMINAIRE – TYPE III (April, 1994) **AS-522**

REMOVED **AS-523**

GUIDELINES FOR REPLACEMENT OF EXISTING CONNECTIONS (March, 2024) **AS-524**

CATCH BASIN FLOW RESTRICTOR PLATE-FOR R.O.W. ONLY (February, 2017) **AS-525**

STANDARD LEAN GROUT/BENTONITE PLUG DETAIL FOR MAINLINE (May, 2003) **AS-526**

STANDARD LEAN GROUT/BENTONITE PLUG DETAIL (May, 2003) **AS-526A**
(SERVICE CONNECTION)

INTERNAL DROP STRUCTURE (March, 2024) **AS-527**

REMOVED **AS-528**

REMOVED **AS-529**

REMOVED **AS-530**

REMOVED **AS-531**

REMOVED **AS-532**

REMOVED **AS-533**

ACCESS AREA & MINIMUM CLEARANCE FOR (September, 2012) **AS-534A**
ABOVE GROUND UTILITIES

ACCESS AREA & MINIMUM CLEARANCE FOR (November, 2015) **AS-534B**
ABOVE GROUND OBSTRUCTIONS

TEMPORARY ASPHALT CATCH BASIN BOX-OUT (June, 2002) **AS-535**

STANDARD TRENCH BACKFILL DETAILS (January, 2024)..... AS-536

REMOVED..... AS-537

INSTALLATION METHOD OF TRAFFIC SIGNAGE DISTURBED (March, 2025) AS-538
BY CONSTRUCTION

SIDEWALK CAFE RAILING ANCHOR DETAIL (June, 2010)..... AS-539

TYPICAL CONCRETE BUS BAY DETAIL (March, 2011)..... AS-540

MAXIMUM CURB CUT FOR RESIDENTIAL DRIVEWAYS W/SINGLE (November, 2013)..... AS-542A
DOUBLE CAR GARAGES

MAXIMUM CURB CUT FOR RESIDENTIAL DRIVEWAYS ON (November, 2013)..... AS-542B
CORNER LOTS

FRONT YARD PARKING FOR RESIDENTIAL DRIVEWAYS (December, 2013) AS-542C

EXCEPTIONS (November, 2013) AS-542D

MAXIMUM CURB CUT FOR RESIDENTIAL DRIVEWAYS(February, 2017)..... AS-542E
ON CUL-DE-SACS

REMOVED..... AS-543

VENDING BOX STANDARD (June, 2011) AS-544

TEMPORARY CUL-DE-SAC FOR (August, 2011)..... AS-545A
(20 METRE MINIMUM RIGHT OF WAY)

TEMPORARY CUL-DE-SAC FOR (August, 2011)..... AS-545-B
(15 METRE MINIMUM RIGHT OF WAY)

INLET CATCH BASIN BOX-OUT FOR ASPHALT (May, 2024)..... AS-546
AND CONCRETE PAVEMENT

CHANNELIZED TRAFFIC ISLAND (PORKCHOP ISLAND) (September, 2019)..... AS-547

REMOVED..... AS-548

TRUNCATED DOME TACTILE SURFACE INDICATORS (August, 2013) AS-549

TEMPORARY LOT DRAINAGE (August, 2013)..... AS-550

N/A..... AS-551

SIDEWALK JOINTING DETAIL (REPAIRS AND NEW INSTALLS) (August, 2023) AS-552

DETAIL OF SELF LEVELING CAST IRON TELESCOPIC (March, 2014) AS-553
MANHOLE FRAME

CONCRETE PAVEMENT APPROACH TREATMENT (February, 2015)..... AS-554A
TO HOT MIX AND COMPOSITE PAVEMENTS

COMPOSITE PAVEMENT APPROACH TREATMENT (February, 2015).....AS-554B
TO HOT MIX AND CONCRETE PAVEMENTS

CANADA POST COMMUNITY MAILBOX (RESIDENTIAL) (February, 2015).....AS-555

N/A.....AS-556

SUBDRAIN DETAIL FOR ASPHALT AND CONCRETE PAVEMENT (Dec, 2024).....AS-557

MANHOLE SUPPORT PLATE FOR BRICK MANHOLE LEVELLING (January 2016).....AS-558

DOGHOUSE MANHOLE (April, 2016).....AS-559

BRICK PAVERS IN THE RIGHT OF WAY (May, 2017).....AS-560

DOWNSPOUT DISCHARGE ADJ TO HARD SURFACING (JULY,2021)..... AS-562

WYE CONNECTIONS TO COMBINED SEWERS (June, 2024).....AS-566

ASPHALT MULTI-USE TRAIL (June, 2024).....AS-569

600mm SQUARE TRAFFIC MANHOLE (May, 2024).....TS-10

600mm DIAMETER POLE BASE (May, 2024).....TS-30

CONCRETE TRAFFIC CONTROLLER PAD (May, 2024).....TS-40

UTILITY RESTORATION FOR FLEXIBLE BASE PAVEMENT (May, 2024).....TS-70