



STANDARD SPECIFICATIONS Book 2

ENGINEERING DRAWINGS

INCLUDES ADDENDUMS

INDEX

STANDARD ENGINEERING DRAWINGS

December 17, 2019

Page 1 of 7

STANDARD LEGEND SYMBOLS (September, 1973)	AS-101A
STANDARD LEGEND SYMBOLS (September, 1973)	AS-101B
PROJECT SIGN (January, 2016).....	AS-102
DETAIL OF STAMP (January, 1976)	AS-103
BENCH MARK (January, 1976)	AS-104
RAINFALL INTENSITY CURVE (June, 1975)	AS-105
BARRIER POST (January, 1976)	AS-106
REMOVABLE BARRIER POST (December, 1975)	AS-106A
BARRIER POST (WITH STEEL REINFORCEMENT) (March, 1977)	AS-106B
CONCRETE ALLEY PAVEMENT (March, 1973).....	AS-201
COMMERCIAL APPROACH - NO CURB (October, 2015)	AS-203
COMMERCIAL DRIVE – CONCRETE (December, 2019).....	AS-204
SODDING OF SIDE SLOPES (May, 1975).....	AS-205
STANDARD UTILITY CROSS-SECTION (17M RIGHT OF WAY) (January, 1980).....	AS-206A
STANDARD UTILITY CROSS-SECTION (22M RIGHT OF WAY) (January, 1980).....	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 & GUTTER FOR RESIDENTIAL ROADS (February, 2018).....	AS-208
STANDARD & SUPERELEVATED CURB & GUTTER FOR COLLECTOR & ARTERIAL ROADS (March, 2017)	AS-208A
BACKFILL OF DITCH/SWALE/TRENCH (June, 2018)	AS-209A
STANDARD CONCRETE DETAILS FOR HEAVY DUTY PAVEMENTS (November, 2015)	AS-210
STANDARD CONCRETE DETAILS FOR RESIDENTIAL PAVEMENTS (November, 2015)....	AS-211

INDEX

STANDARD ENGINEERING DRAWINGS

December 17, 2019

Page 2 of 7

DETAILS FOR LOAD TRANSFER DEVICE (January, 1976).....	AS-212
PAVEMENT WIDENING DETAILS (November, 2015).....	AS-213
28' WIDE ASPHALT PAVEMENT (July, 2013).....	AS-214
STEEL BEAM GUIDE RAIL (May, 1975).....	AS-215
CURB CUT REQUIREMENTS FOR VARIOUS PAVEMENTS (January, 1976).....	AS-216
STANDARD CORNER COMMERCIAL ACCESS – TYPE I (June, 1975).....	AS-217
STANDARD CORNER COMMERCIAL ACCESS – TYPE II (June, 1975).....	AS-218
STANDARD CORNER COMMERCIAL ACCESS – TYPE III (June, 1975).....	AS-219
INTERIOR COMMERCIAL ACCESS (November, 1975).....	AS-220
RESIDENTIAL DRIVE – ASPHALT (December, 2019).....	AS-221
RESIDENTIAL DRIVE – CONCRETE (December, 2019).....	AS-222
FENCED PEDESTRIAN WALKWAY (May, 1972).....	AS-223
TREE RELOCATION (January, 1976).....	AS-224
LOCAL INDUSTRIAL CONCRETE PAVEMENT (March, 1975).....	AS-225
RURAL ARTERIAL CONCRETE PAVEMENT (March, 1975).....	AS-226
RURAL RESIDENTIAL CONCRETE PAVEMENT (March, 1975).....	AS-227
VARIOUS STREET ALIGNMENTS PERMITTING THE USAGE OF 24' WIDE PAVEMENTS (January, 1975).....	AS-228
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, 1975).....	AS-301
REMOVED.....	AS-301A
DOUBLE CATCH BASIN - FRAME AND COVER (March, 1975).....	AS-302
4' X 4' CATCH BASIN-MANHOLE FOR SEWER LESS THAN 48" (May, 1975).....	AS-303
REMOVED.....	AS-304
MANHOLE FRAME AND COVER – TYPE II (May, 1974).....	AS-304A
DETAIL OF TYPICAL MANHOLE STEP (June, 1975).....	AS-305
REMOVED.....	AS-306

INDEX

STANDARD ENGINEERING DRAWINGS

December 17, 2019

Page 3 of 7

STANDARD GOSS GULLY TRAP (August, 2014)	AS-307
600mm X 600mm PRE-CAST CONCRETE CATCH BASIN (August, 2014)	AS-309
600mm X 600mm PRE-CAST CONCRETE CATCH BASIN (August, 2014)	AS-309A
BEDDING DETAIL FOR SEWER PIPE – CLASS “A” (March, 1979)	AS-310A
CLASS “B” BEDDING DETAIL VARIOUS CASES (August, 2014)	AS-310B
BEDDING DETAIL FOR SEWER PIPE – CLASS “B-2” (November, 1975)	AS-310C
SPACING FOR PIPES AND PIPE-ARCHES (May, 1975)	AS-311
BEAM SUPPORTS FOR PIPES CROSSING TRENCH (July, 1975).....	AS-312
PRIVATE DRAIN CONNECTION DETAILS (SINGLE) (December, 2015)	AS-313
REMOVED.....	AS-314
PRECAST MAINTENANCE HOLE 1200mm DIAMETER (March, 2017).....	AS-314A
PRECAST MAINTENANCE HOLE 1500mm DIAMETER (March, 2017).....	AS-314B
PRECAST MAINTENANCE HOLE 1800mm DIAMETER (March, 2017).....	AS-314C
PRECAST MAINTENANCE HOLE 2400mm DIAMETER (March, 2017).....	AS-314D
PRECAST MAINTENANCE HOLE 3000mm DIAMETER (October, 2005)	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 (November, 1975).....	AS-319
SUBDIVISIONS	
MANHOLE SAFETY PLATFORM (August, 1977)	AS-320
CATCH BASIN BOX-OUT FOR ASPHALT PAVEMENT (August, 1978).....	AS-321
REMOVED.....	AS-322
REMOVED.....	AS-323
REMOVED.....	AS-324

INDEX

STANDARD ENGINEERING DRAWINGS

December 17, 2019

Page 4 of 7

PRIVATE DRAIN CONNECTION CLEANOUT AT PROPERTY LINE (July, 2013).....	AS-325
AS REQUIRED BY BY-LAW 4921	
RESIDENTIAL CONCRETE SIDEWALK (April, 2015)	AS-401
SIDEWALK – WHEEL CHAIR RAMP (February, 2016).....	AS-402
COMMERCIAL CONCRETE SIDEWALK (March, 2017)	AS-403
WHEEL CHAIR RAMPS & PEDESTRIAN CROSSINGS (December, 2015).....	AS-404
AT INTERSECTIONS AND CUL-DE-DAC SIDEWALK TERMINATION	
MANHOLE FOR DUAL SEWERS (January, 1976).....	AS-501
“V” TYPE CATCH BASIN FRAME AND GRATE (January, 1976).....	AS-502
SANITARY SEWER INSPECTION PLATE (January, 1976).....	AS-503
TYPICAL RESIDENTIAL COMBINED CONNECTIONS (December, 1974).....	AS-504
REMOVED.....	AS-505
TYPICAL PARALLEL STREET FURNITURE LAYOUTS (April, 2015).....	AS-505A
TYPICAL SKEWED STREET FURNITURE LAYOUTS (April, 2015).....	AS-505B
RECONSTRUCTION OF INTEGRAL SIDEWALK, CURB, AND GUTTER (August, 1976).....	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 (December, 1986).....	AS-514
SUB DRAIN AT CATCH BASIN (July, 1987).....	AS-515
MEDIAN END TREATMENT (November, 1987).....	AS-516
REMOVED.....	AS-517
REMOVED.....	AS-518
GRANULAR BACKFILL: ENTIRE TRENCH GRANULAR “B” TYPE 1 (April, 2004).....	AS-519

INDEX

STANDARD ENGINEERING DRAWINGS

December 17, 2019

Page 5 of 7

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 (November, 1999).....	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)	
INSIDE DROP SYSTEM OPEN BOWL IN MANHOLE (November, 2014)	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 (October, 2002).....	AS-536
REMOVED.....	AS-537
INSTALLATION METHOD OF TRAFFIC SIGNAGE DISTURBED (January, 2011).....	AS-538
BY CONSTRUCTION	
SIDEWALK CAFE RAILING ANCHOR DETAIL (June, 2010).....	AS-539
TYPICAL CONCRETE BUS BAY DEATIL (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

INDEX

STANDARD ENGINEERING DRAWINGS

December 17, 2019

Page 6 of 7

CORNER LOTS

FRONT YARD PARKING FOR RESIDENTIAL DRIVEWAYS (December, 2013)	AS-542C
EXEPTIONS (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 PAVEMENT (October, 2011).....	AS-546
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
N/A.....	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 & CONCRETE PAVEMENT (June, 2015)	AS-557
MANHOLE SUPPORT PLATE FOR BRICK MANHOLE LEVELLING (January 2016)	AS-558

INDEX

STANDARD ENGINEERING DRAWINGS

December 17, 2019

Page 7 of 7

DOGHOUSE MANHOLE (April, 2016).....	AS-559
BRICK PAVERS IN THE RIGHT OF WAY (May, 2017).....	AS-560