



Ontario Provincial Standards
301 St. Paul St., 2nd Floor North
St. Catharines, ON L2R 7R4

REVISION INFORMATION SHEET

ONTARIO PROVINCIAL STANDARDS FOR ROADS AND PUBLIC WORKS

VOLUME 4 MUNICIPAL AND PROVINCIAL COMMON DRAWINGS FOR ELECTRICAL WORK

MANUAL REVISION #35

APRIL 2017

UPDATING ONTARIO PROVINCIAL STANDARDS FOR YOUR USE

Each roads and public works owner (Owner) is responsible for determining implementation dates and directions for use of Ontario Provincial Standards; therefore, manual holders are cautioned about immediately discarding superseded and cancelled standards.

ACCESSING AND OBTAINING ONTARIO PROVINCIAL STANDARDS

The Ontario Provincial Standards for Roads and Public Works (OPS) manuals and the latest published updates for each of the eight OPS manuals are available as follows:

- Available electronically on the OPS/MTO website. Online access to the current, updated, and archived standards; indexes; OPS User Notes; and publication Revision Information Sheets are available free of charge at the site.
(<http://www.rags.mto.gov.on.ca/techpubs/ops.nsf/OPSHomepage>)
- The eight OPS manuals of standards are also available for free as well in a single PDF format on the website.

A link to the Ontario Provincial Standards on the MTO Library website is available on the OPS website (www.ops.on.ca). Also on this site under News and Activities are notices for updates and changes in OPS.

Questions should be directed by email to Ontario.Prov.Standards@ontario.ca

WAITING TO HEAR FROM YOU

If you have a suggestion to revise a standard or you have a standard that works in your ministry, municipality, or area, send it to the Head, OPS Administration, for review and possible inclusion into the Ontario Provincial Standards.

THIS MANUAL IS REVISED AS FOLLOWS:

Index Pages Volume 4

Please remove the entire index and replace with the attached revised index.

Standard Drawings Volume 4

Superseded/Cancelled (Remove)		Revised/New (Insert)		Remarks
OPSD	Revision	OPSD	Revision	
2415.010	0			“STEEL POLE, BASE MOUNTING” This Drawing is Cancelled. Going forward, standardize steel poles without gussets are to be used.
2415.011	0	2415.011	1	“STEEL POLE, BASE MOUNTED” See Summary of Revisions.
2416.010	0			“STEEL POLE, CONCRETE BARRIER MOUNTING” This Drawing is Cancelled. Going forward, standardize steel poles without gussets are to be used.
2416.011	0	2416.011	1	“STEEL POLE, CONCRETE BARRIER BASE MOUNTED” See Summary of Revisions.

SUMMARY OF REVISIONS TO OPSD 2415.011

STEEL POLE, BASE MOUNTED

- Title revised.
- Detail F, service post connector revised to ground connector.

SUMMARY OF REVISIONS TO OPSD 2416.011

STEEL POLE, CONCRETE BARRIER BASE MOUNTED

- Title revised.
- Detail F, service post connector revised to ground connector.

MANUAL REVISION RECORD

Municipal and Provincial Common

Volume 4 – Drawings for Electrical

This record should remain in the manual at all times. Revisions are numbered sequentially. This sheet should be filled in after each revision has been placed into the manual. It will quickly indicate to users whether the contents of the manual are up-to-date.

REVISION NUMBER	REVISION DATE	ENTERED BY	REVISION NUMBER	DATE	ENTERED BY
19	NOV 2004	Included in new manuals	45		
20	NOV 2005	Included in new manuals	46		
21	NOV 2006	Included in new manuals	47		
22	APRIL 2007	Included in new manuals	48		
23	NOV 2007	Included in new manuals	49		
24	NOV 2008	Included in new manuals	50		
25	APR 2009	Included in new manuals	51		
26	NOV 2009	Included in new manuals	52		
27	APR 2010	Included in new manuals	53		
28	NOV 2010	Included in new manuals	54		
29	NOV 2011	Included in new manuals	55		
30	NOV 2012	Included in new manuals	56		
31	NOV 2013	Included in new manuals	57		
32	NOV 2014	Included in new manuals	58		
33	NOV 2015	Included in new manuals	59		
34	NOV 2016	Included in new manuals	60		
35	APRIL 2017	Included in new manuals	61		
36			62		
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DATE	OPSD NO.	REV.	TITLE
DIVISION 2000 - ABBREVIATIONS			
2009 11	2000.001	0	Abbreviations, General
2009 11	2011.101	0	General Symbols, Ducts and Cables
2009 11	2011.201	0	General Symbols, Maintenance Holes, Junction Boxes, Pads, and Footings
2009 11	2011.401	0	General Symbols, Poles and Guying
2009 11	2011.501	0	General Symbols, Power Supply Equipment
2013 11	2011.601	1	General Symbols, Control Equipment
2016 11	2011.701	3	General Symbols, Traffic Actuation Devices
2009 11	2012.101	0	Highway Lighting Symbols, Luminaires
2009 11	2013.101	0	Electrical Traffic Control Symbols, Traffic Control Devices
2009 11	2013.201	0	Electrical Traffic Control Symbols, Traffic Signal Displays
2009 11	2014.101	0	Wiring Symbols, Wiring Diagrams 1
2009 11	2014.102	0	Wiring Symbols, Wiring Diagrams 2
2009 11	2015.201	0	Advanced Traffic Management Symbols, Universal Traffic Management System, Equipment Identifier 1
2009 11	2015.202	0	Advanced Traffic Management Symbols, Universal Traffic Management System, Equipment Identifier 2
2009 11	2015.301	0	Advanced Traffic Management Symbols, Layout Drawings
2009 11	2015.302	0	Advanced Traffic Management Symbols, Wiring Diagrams
2009 11	2016.301	0	Communications Symbols, Fibre Optic Communications Schematic 1
2009 11	2016.302	0	Communications Symbols, Fibre Optic Communications Schematic 2
DIVISION 2100 - UNDERGROUND WORK, ETC.			
2013 11	2100.010	0	Cable Installation in Trenches
2013 11	2100.050	0	Cable and Duct Protection and Marking
2015 11	2100.06	2	Rigid Ducts Encased in Concrete



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DATE	OPSD NO.	REV.	TITLE
2013 11	2101.01	1	Duct Installation in Trenches
2013 11	2101.020	0	Extension of Existing Rigid Ducts Encased in Concrete
2013 11	2102.01	1	Underground Rigid Duct Connection at Concrete Structure
2015 11	2102.020	0	Underground Rigid Duct Connection at Concrete Structure Without Expansion Joint
2015 11	2103.010	0	Rigid Duct Termination for High Voltage Cables at Utility Poles
2015 11	2103.02	1	Duct Installation Profiles
2015 11	2103.030	1	Rigid Duct Installation in Existing Paved Area, Unshrinkable Backfill Method
2015 11	2103.040	0	Rigid Duct Installation in Existing Paved Area - Granular Backfill Method
2015 11	2103.050	0	Duct Installation at Utility Crossings
2015 11	2103.060	0	Augering Pits for Subsurface Installation of Ducts and Encasements
92 12 15	2104.01	-	Re Ducts Surface Mounted on Structures
2015 11	2111.020	1	Electrical Maintenance Hole - Precast Concrete - 600 x 1450 mm
2015 11	2111.030	1	Electrical Maintenance Hole - Precast Concrete - 1200 mm Dia.
2015 11	2111.040	1	Electrical Maintenance Hole - Precast Concrete - 1200 x 1650 mm
2015 11	2111.050	1	Electrical Maintenance Hole - Precast Concrete - 1800 x 2400 mm
2009 11	2112.01	2	Electrical Handhole, Precast Concrete with Cover, 300 mm Dia.
2009 11	2112.02	2	Electrical Handhole, Precast Concrete with Cover, 460 mm Dia.
2004 11	2112.030	0	Electrical Handhole Precast Concrete - 675 mm Dia.
2004 11	2112.040	0	Electrical Handhole Precast Concrete - 600 x 600 mm
2009 11	2112.05	1	Electrical Handhole, Precast Concrete with Cover, 300 x 500 mm
2004 11	2113.010	0	Electrical Handhole, Non and Semi-Concrete, General Requirements



DATE	OPSD NO.	REV.	TITLE
2013 11	2116.01	1	Drainage Facilities for Electrical Maintenance Holes
2013 11	2116.02	1	Electrical Maintenance Hole, Drains to Drainage Pockets, Embankment Outlets, and Ditches
2013 11	2116.03	1	Electrical Maintenance Hole, Drains to Storm Sewer Systems
2013 11	2117.01	2	Electrical Maintenance Holes, General Installation Requirements
2013 11	2117.02	3	Electrical Handholes, General Installation Requirements
2009 11	2118.010	0	Electrical Chamber Installation in Median
2009 11	2118.020	0	Electrical Chamber Installation in Slope
2013 11	2123.01	1	Electrical Maintenance Holes, Entry of Direct Buried Ducts
2013 11	2123.02	1	Electrical Maintenance Holes, Entry of Encased Ducts
2013 11	2123.03	2	Electrical Handholes, Entry of Direct Buried and Encased Ducts
2010 11	2126.010	2	Distribution Assembly, Concrete Pad and Ducts, Plan and Section A-A
2010 11	2126.020	2	Distribution Assembly, Concrete Pad and Ducts, Section B-B
2016 11	2130.010	1	Supply Control Cabinet Installation Overhead Services, Top Entry Metering
2016 11	2130.011	1	Supply Control Cabinet Installation, Underground Services, Bottom Entry Metering
2016 11	2130.012	1	Supply Control Cabinet Installation, Overhead Services, Bottom Entry Metering
2016 11	2130.013	0	Supply Control Cabinet Installation, Underground Services, Bottom Entry Metering
DIVISION 2200 - FOUNDATIONS, ETC.			
2012 11	2200.01	2	Concrete Footing for Base Mounted Lighting and Signal Poles
2010 11	2200.011	0	Raised Concrete Footing for Base Mounted Lighting Poles
2013 11	2200.02	1	Concrete Foundation for Direct Buried Lighting Poles Where Rock is Encountered
2012 11	2200.03	2	Concrete Foundation for Base Mounted Lighting Poles Where Rock is Encountered



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DATE	OPSD NO.	REV.	TITLE
2014 11	2200.04	2	Concrete Footing and Anchorage Assembly for 3.3 m Base Mounted Metal Pole
2014 11	2200.041	0	Concrete Footing for 1.5 m Base Mounted Pedestrian Push Button Pole
2016 11	2200.070	1	Pole Footing in Earth for Cast-In-Place Concrete Barrier
2016 11	2200.080	1	Pole Footing in Rock for Cast-In-Place Concrete Barrier
2013 11	2210.010	0	Local Grading at Pole Foundations
2016 11	2210.030	1	High Mast Lighting Pole, Apron
2015 11	2215.02	4	Anchorage Assembly for Lighting and Signal Poles
2015 11	2215.025	0	Anchorage Assembly for Heavy Class Steel Pole and Sectional Steel Pole
2014 11	2215.03	4	Pole Mounting Details for Base Mounted Metal Pole
2015 11	2216.010	2	Anchorage Assembly for Pole Footing in Concrete Barrier
2016 11	2218.010	1	High Mast Lighting Pole Anchorage Assembly Placement
2010 11	2220.01	1	Pole Handhole Locations
2016 11	2225.010	1	Concrete Lighting Pole, Direct Buried
2016 11	2228.010	1	Metal Lighting Pole, Base Mounted
2016 11	2232.010	1	Sectional Steel Pole with Brackets, Luminaire, and Traffic Signal Head
2012 11	2235.01	2	Pole Guying Details
2013 11	2236.010	0	Wooden Pole and Anchorage Settings in Solid Rock 1
2013 11	2236.020	0	Wooden Pole and Anchorage Settings in Solid Rock 2
2010 11	2238.01	1	Wooden Pole in Earth
2013 11	2239.010	0	Cribbing for Wood Poles in Muskeg
2013 11	2239.020	0	Log Anchor for Guy in Muskeg
2006 11	2240.01	2	Wood Pole with Elliptical Bracket, Overhead and Underground Circuits



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DATE	OPSD NO.	REV.	TITLE
2013 11	2242.01	1	Wooden Pole with Neutral Supported Cable
2013 11	2242.02	2	Wooden Poles with Aerial Signal Cables Lashed on Messenger
2004 11	2245.01	2	Installation of Aerial Cable Systems
2011 11	2245.020	1	Minimum Vertical Clearances for Aerial Cable Systems
2016 11	2250.010	0	Aluminum Tapered Elliptical Brackets on Metal and Concrete Poles, Mounting Details
2013 11	2255.010	1	Pole Wiring Diagram - 120V System
2013 11	2255.020	1	Pole Wiring Diagram - 120/240V System
2013 11	2255.030	1	Pole Wiring Diagram - 347/600V System
2013 11	2255.040	1	Pole Wiring Diagram, Lighting Pole on Bridge Structure

DIVISION 2300 - WORK ON STRUCTURE

2013 11	2300.010	1	Rigid PVC Junction Box, Type P1
2013 11	2300.020	1	Rigid PVC Junction Box, Type P2
2013 11	2300.030	1	Rigid PVC Junction Box, Type P4
2010 11	2302.010	1	Embedded Work Detail for Rigid PVC Junction Box, Type P3-1, for Use in Concrete Barrier Wall
2013 11	2302.020	0	Expansion and Deflection Fitting Assembly for 50 and 75 mm Rigid Ducts
2013 11	2302.040	1	Embedded Work in Structure, New Jersey Type Concrete Barrier Wall
2014 11	2302.045	0	Embedded Work in Structure, Parapet Wall
2016 11	2305.020	2	Underpass Luminaires Wall Mounted Installation
2016 11	2310.010	1	Underpass Luminaire Ceiling Mounted Installation with Tee Bracket
2016 11	2310.020	2	Tee Bracket for Ceiling Mounted Underpass Luminaire
2016 11	2310.030	1	Wedge Mounting Bracket for Underpass Luminaire
2016 11	2310.040	1	Support Bracket for Column Mounted Underpass Luminaire
2016 11	2315.010	1	Underpass Luminaire, Wiring Detail



DATE	OPSD NO.	REV.	TITLE
DIVISION 2400 - PURCHASING STANDARDS			
2013 11	2400.000	2	Distribution Assembly Legend
2010 11	2400.010	2	Distribution Assembly, Cabinet
2008 11	2400.020	1	Distribution Assembly, Equipment Layout
2013 11	2400.030	2	Distribution Assembly Wiring Schematic
2008 11	2400.100	0	Warning Signs for Electrical Equipment
2010 11	2400.101	0	Warning Signs Outside Electrical Equipment
2012 11	2410.01	3	Spun Concrete Pole
2012 11	2410.020	0	18.3 m Spun Concrete Pole for TV Camera Mounting
2015 11	2414.010	0	3.3m Aluminum and Sectional Steel Poles, Base Mounted
2017 04	2415.011	1	Steel Pole, Base Mounted
2017 04	2416.011	1	Steel Pole, Concrete Barrier Base Mounted
2016 11	2418.010	2	1.8 m and 2.7 m Steel Truss Bracket for Steel Poles
2007 04	2420.01	4	1.8 m and 2.7 m Aluminum Tapered Elliptical Bracket
2016 11	2421.010	1	Lamp Wattage Label for Luminaire
2010 11	2428.01	3	Frangible Bases
2010 11	2432.010	1	Aluminum Pole - Base Mounted
2014 11	2440.010	1	Supply Control Cabinet Assembly Type 1, 120/240V, 100A, 1-Phase, 3-Wire
2014 11	2440.020	1	Supply Control Cabinet Assembly Type 2, 120/208V, 100A, 3-Phase, 4-Wire
2014 11	2440.021	0	Supply Control Cabinet Assembly Type 2, 347/600V, 100A, 3-Phase, 4-Wire
2014 11	2440.030	1	Supply Control Cabinet Assembly Type 1 and 2, Enclosure
2014 11	2440.040	1	Pole Mounting Bracket for Supply Control Cabinet Assembly



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DATE	OPSD NO.	REV.	TITLE
2014 11	2440.050	1	Supply Control Cabinet Assembly Type 1 and 2, Dead Front Panels
2016 11	2440.051	0	Supply Control Cabinet Assembly Type 1 and 2, Barrier Details
2014 11	2440.060	1	Supply Control Cabinet Assembly Type 1 and 2, 3-Point Door Latch
2014 11	2440.061	0	Supply control Cabinet Assembly Type 1, 2, and 3, 3-Point Stainless Steel Door Handle
2014 11	2441.000	1	Supply Control Cabinet Assembly Type 3, 120/240V, 100A, 1-Phase, 3-Wire
2014 11	2441.010	1	Supply Control Cabinet Assembly Type 3, Enclosure
2014 11	2441.020	1	Supply Control Cabinet Assembly Type 3, Dead Front Panels
2014 11	2441.030	0	Supply Control Cabinet Assembly Type 3, 3-Point Door Latch
2015 11	2442.010	0	Duct Hanger
2016 11	2450.011	1	High Mast Lighting Pole, 25, 30, and 35 m 8-Sided Pole
2016 11	2450.021	1	High Mast Lighting Pole, 40 and 45 m 12-Sided Pole
2016 11	2453.000	1	High Mast Lighting Pole, Luminaire and Handhole Orientation
2016 11	2453.001	0	High Mast Lighting Pole, Luminaire and Handhole Orientation for Median Mounted Poles
2016 11	2453.010	1	High Mast Lighting Pole, Cable Holder, and Storage Hook Details
2016 11	2453.020	1	High Mast Lighting Pole, Handhole Cover Hinges, Latches, and Padlock
2016 11	2453.050	1	High Mast Lighting Pole, Nameplate Details



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2016 11	2453.060	1	High Mast Lighting Pole, Flood Light Luminaire Mounting Details
2016 11	2453.070	2	High Mast Lighting Pole, Luminaire Support Ring
2016 11	2453.080	2	High Mast Lighting Pole, Head Frame and Ring Assembly
2016 11	2453.090	1	High Mast Lighting Pole, Luminaire Shroud
2016 11	2453.091	1	High Mast Lighting Pole, Luminaire Shroud Details
2016 11	2453.140	1	High Mast Lighting Pole, Internal Drive Raising and Lowering Equipment - List of Components
2016 11	2453.150	1	High Mast Lighting Pole, Internal Drive Raising and Lowering Equipment - Layout
2016 11	2453.170	1	High Mast Lighting Pole, Internal Drive Raising and Lowering Equipment, 347/600V, 3-Phase, Wiring Diagram
2016 11	2453.180	1	High Mast Lighting Pole, Internal Drive Raising and Lowering Equipment, 120/240V, 1-Phase, Wiring Diagram
2016 11	2453.190	1	High Mast Lighting Pole, External Drive Raising and Lowering Equipment - List of Components
2016 11	2453.200	1	High Mast Lighting Pole, External Drive Raising and Lowering Equipment - Layout
2016 11	2453.210	1	High Mast Lighting Pole, External Drive Raising and Lowering Equipment, 347/600V, 3-Phase, Wiring Diagram
2016 11	2453.220	1	High Mast Lighting Pole, External Drive Raising and Lowering Equipment, 120/240V, 1-Phase, Wiring Diagram
2016 11	2456.011	1	High Mast Lighting Pole Anchorage Assembly Details
DIVISION 2500 - TRAFFIC SIGNALS			
2011 11	2500.010	1	600 mm Signal Arm and Signal Head
2009 11	2500.020	1	600 mm Signal Arm Attachment to Poles
2011 11	2501.01	2	Single Member Arm and Signal Head
2011 11	2501.02	2	Aluminum Single Member Arm Attachment Details
2007 11	2502.010	0	Traffic Signal, Adjustable Mid-Section Hanger



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DATE	OPSD NO.	REV.	TITLE
2007 11	2502.011	0	Traffic Signal, Dual-End Hanger
2014 11	2505.010	1	Traffic Signal, Pedestrian Head and Push Button Mounted on Pole
2011 11	2508.010	0	Traffic Signal, Sectional Steel Poles with Primary and Secondary Signal Heads for Ramp Metering
2012 11	2510.010	0	Pole Mounted Controller Cabinet
2011 11	2510.020	0	Mounting Bracket for Pole Mounted Controller Cabinet
2012 11	2514.010	0	Controller Cabinet on Pad
2012 11	2514.020	0	Concrete Pad for Controller Cabinet
2012 11	2516.102	0	Traffic Data Collection, Data Station, Traffic Counting Station Type 2
2012 11	2518.101	0	Prefabricated Detector Loop
2012 11	2518.102	0	Traffic Data Collection, Detector Loops, Heavy Duty Rubber
2012 11	2520.010	0	Loop Detector Installation Details I
2012 11	2520.02	4	Loop Detector Installation Details II
2007 11	2522.010	0	Traffic Signal, Cushion Hanger
2009 11	2524.01	1	Traffic Signal, Double Arm Bracket
2012 11	2526.01	1	Traffic Signal Bracket for Mounting Pedestrian Instruction Sign on Pole
2010 11	2528.01	2	Traffic Signal Equipment, Pole Wiring Diagram
2015 11	2529.010	1	Signal Wiring for Pedestrian Facilities
2012 11	2529.020	0	Signal Wiring Using 4/C Cable Connected Radially, 2 Phase
2012 11	2529.030	0	Signal Wiring Using 12/C Cable Tapped, 2 to 8 Phase
2012 11	2529.040	0	Signal Wiring Using 4/C and 12/C Cable Tapped, 2 to 8 Phase
2012 11	2529.050	0	Signal Wiring Using 4/C Cable Connected Radially, 2 to 8 Phase
2012 11	2529.060	0	Signal Wiring Using 4/C Cable Connected Radially, and 12/C Cable Tapped, 2 to 8 Phase
2012 11	2529.070	0	Signal Wiring Using 19/C Cable Tapped, 2 to 8 Phase



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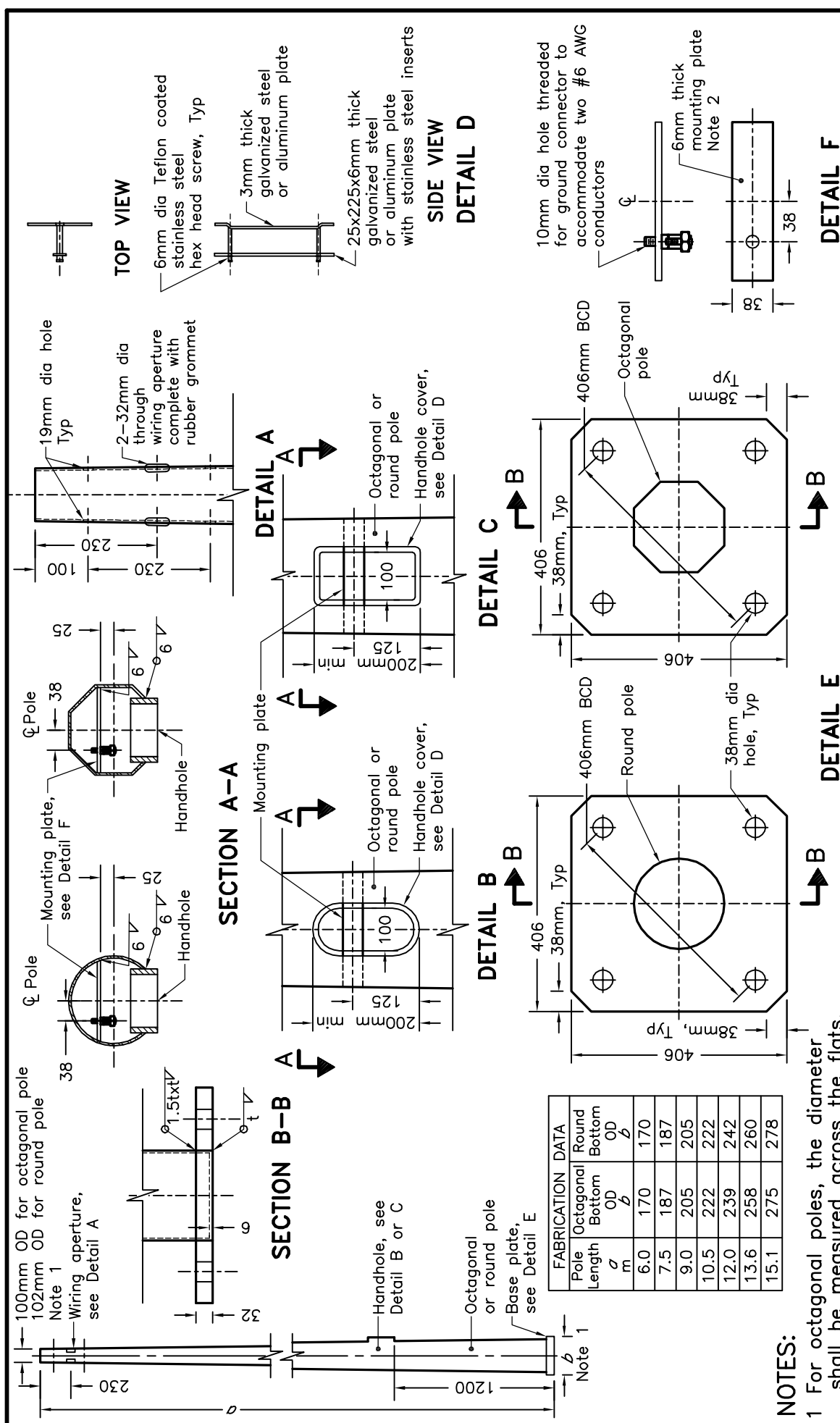
DATE	OPSD NO.	REV.	TITLE
2012 11	2529.080	0	Signal Wiring Using 7/C Cable Connected Radially T-Intersection, 2 to 3 Phase
2012 11	2529.090	0	Signal Wiring Using 4/C Cable Connected Radially T-Intersection, 2 Phase
2013 11	2530.01	1	Splices for Traffic Signal Cable and Extra Low Voltage Cable
2015 11	2536.010	2	Flasher Beacons for Roadway Sign and Downlight and Wiring Diagram
2015 11	2536.030	0	Solar Powered LED Flasher Beacon and Wiring Diagram for Roadway Sign, Base Mounted Pole
2015 11	2536.032	0	Solar Powered LED Flasher Beacon and Wiring Diagram for Roadway Sign, Direct Buried Pole
2013 11	2540.01	4	Aerial Traffic Signal Installation
2013 11	2540.02	2	Aerial Flasher Beacon Installation
2013 11	2540.030	0	Aerial Suspension Mounting Bracket, Signal Heads and Flashing Beacons
2009 11	2540.100	0	Aerial Suspension Mounting Bracket, Emergency Pre-Emption Unit
2012 11	2545.01	1	PVC Junction Box for Signal Cable Splicing
2014 11	2547.010	1	Traffic Signal and Illumination Grounding System
2011 11	2552.01	2	Traffic Signal System Equipment on Wooden or Concrete Poles, Overhead Wiring Installation
2011 11	2554.010	0	Traffic Signal System Equipment on Wooden or Concrete Poles, Underground Wiring Installation
2016 11	2555.010	0	Flexible Utility Markers
2014 11	2558.000	0	Pole for Accessible Pedestrian Signal Push Button

DIVISION 26 - SIGN LIGHTING

CURRENTLY NO DRAWINGS

DIVISION 29 – ADVANCED TRAFFIC MANAGEMENT SYSTEM (ATMS)

2015 11	2902.322	0	Advanced Traffic Management System, Supply Control Cabinet, 120V, 100A, 1-Phase, 3 Wire
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STEEL POLE
BASE MOUNTED

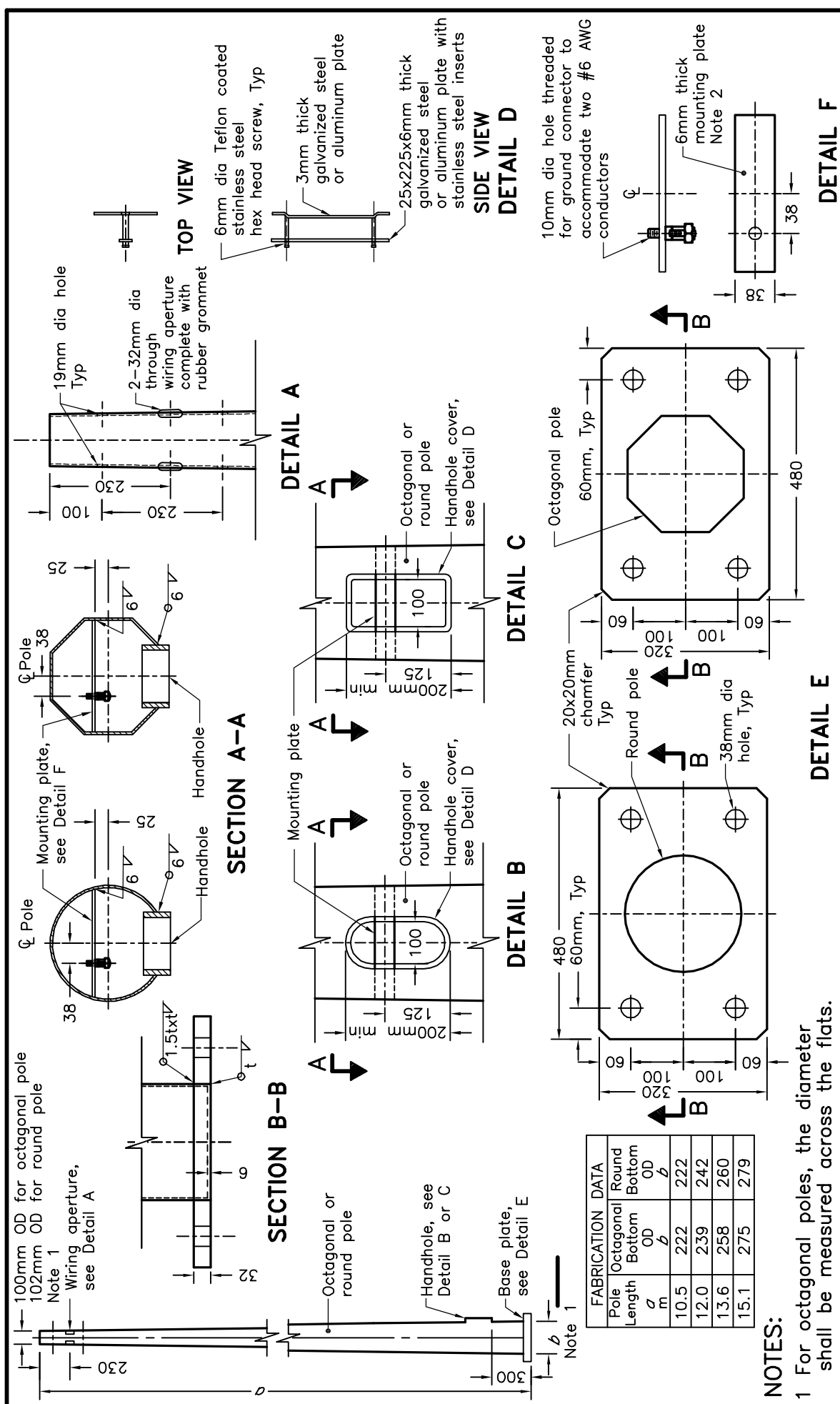
ONTARIO PROVINCIAL STANDARD DRAWING

Apr 2017 Rev 1

OPSD 2415.011

NOTES:

- For octagonal poles, the diameter shall be measured across the flats.
- Centreline of mounting plate and ground connector shall be 25mm above centreline of handhole.
- All shafts shall be 4.5mm thick steel.
- All dimensions are in millimetres unless otherwise shown.



- NOTES:**
- For octagonal poles, the diameter shall be measured across the flats.
 - Centreline of mounting plate and ground connector shall be 25mm above centreline of handhole.
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