

PUBLIC WORKS STANDARD DRAWING

REVISION TRACKING

LAST REV. DATE: AUGUST 2020

STD. DWG. NUMBER 2-0-2

	Drawing Number	Standard Drawing Title/Description	Revision Number	Revision Date	Revisions or Modifications
	2-0-1	General Notes and References	-	March 2017	
Section 2-0			1	Nov. 2019	Format revised, revisions to precast concrete notes, deleted dwg list revised
	2-0-2	Revision Tracking	-	Nov. 2019	New standard drawing added
	244	Precast Maintenance Hole (1200mm Diameter) – DELETED	1		Revisions added for August 2020
-	2-1-1		<u> </u>		Deleted Deleted
-		Precast Maintenance Hole (1500mm and 1800mm Diameter) - DELETED Precast Maintenance Hole Tees – DELETED	+ -		Deleted Deleted
Section 2-1	2-1-3	Maintenance Hole Benching Details - DELETED	-		Deleted Deleted
Section 2-1	2-1-4	Maintenance Hole Drop Structure External Assembly - DELETED	-		Deleted Deleted
-	2-1-6	Maintenance Hole Drop Structure External Assembly - DELETED Maintenance Hole Drop Structure Internal Assembly - Existing MH Only - DELETED	-	September 2006	
-		Maintenance Hole Venting Details - DELETED		•	Deleted Deleted
		Safety Platform for 1200mm Diameter Precast Maintenance Hole – DELETED			Deleted Deleted
-	2-2-7	Standard Heavy Duty Frame and Cover – DELETED			Deleted Deleted
-		Water Tight Maintenance Hole Frame and Cover – DELETED	-		Deleted Deleted
Section 2-2		Detail of Anchoring Method For Water Tight Maintenance Hole – DELETED	-	•	Deleted
.		Detail of Anchoring Method For Water Tight Maintenance Hole – DELETED	-		Deleted
		Standard Maintenance Hole Steps Aluminum – DELETED	-		Deleted
		Bedding And Cover Details For Sewers	-	March 2017	
Section 2-3	2-3-1		1	Nov. 2019	Revised format, title and notes, insulation modified and added rock/shale detail with insulation on both sides of trench, added U-fill bedding detail
			2	Aug. 2020	General note added for bedding details applicable for municipal services
	2-3-2	Bentonite Trench Plug Detail	-	Nov. 2019	New detail added November 2019
	2-4-0	Permitted Sanitary Service Connections and General Notes	-	Nov. 2019	New detail added November 2019
	2-4-0	Terrificed Garmary Gervice Gorificetions and Gerieral Notes	1	Aug. 2020	Chamber sizing comments revised for pipe seal requirement, general notes revised, connection chart headings revised
	2-4-1	Service Connections For Rigid Pipe Residential Low to Medium Density – DELETED	-	March 2017	Deleted
	2-4-2	Service Connections For Flexible Pipe (Single Residential Dwelling Including Semi-Detached)	-	March 2017	
			1	Nov. 2019	Format and notes revised, slope revised, separate detail for vertical riser and long radius sweep riser added
			2	Aug. 2020	Revised title, general notes revised, service lateral notes revised
		Service Connections For Industrial, Commercial, Institutional, or Multi-Residential Units	-	March 2017	
	2-4-3		1	Nov. 2019	Revised title, format and notes, slope revised, MH details updated as per section 2-5 revisions
			2		Revised title, general notes revised, conventional boot connector removed and flexible watertight seal added at M.H.
	2-4-4	New Residential Development Connections	-	March 2017	
Section 2-4			1	Nov. 2019	Format and notes revised, slope revised
	0.15	0:4 D T 4 D 0 " 0 0 : DELETED	2		Revised title, general notes revised, water service revised
-		Grinder Pump To Low Pressure Sanitary Sewer Service - DELETED	-		Deleted Deleted
	2-4-6	Grinder Pump To Low Pressure Sanitary Sewer Within The Road Allowance - DELETED	-		Deleted
	2-4-7A	Service Connections For Grinder Pump Forcemain To Gravity Sewer Detail For Single Residential Service	- 1	March 2017 Nov. 2019	Revised title, format and notes, added inspection chamber, control valve and support, insulation reference notes added
			 '	NOV. 2019	Title revised, conventional boot connector removed and flexible watertight seal added at M.H., revised location of M.H., test tee added, general
			2	Aug. 2020	notes revised
		Service Connections For Grinder Pump Forcemain To Gravity Sewer Detail For Multi-Residential Or Industrial, Commercial, Institutional	-		New detail added August 2020
	2-4-8	Sanitary Mainline Sewer Connection For Large Scale Development To Existing Regional Infrastructure	-	Nov. 2019	New detail added November 2019
	•	, John John J. Lange Code Development to Existing Regional Influentation	1	Aug. 2020	Revised title, general notes, conventional boot connector removed and flexible watertight seal added at M.H.

	Drawing Number	Standard Drawing Title/Description	Revision Number	Revision Date	Revisions or Modifications
			-	March 2017	
			1	Nov. 2019	Minor note revisions, reference to Access Industrial removed
	2-5-1	General Notes For Precast Maintenance Holes	2	Aug. 2020	Note 6 added for non pressure vs pressure design, note 15 and 16 deleted and subsequent numbering revised, PVC & Rigid pipe conventional boot connector notes revised for flexible watertight seal requirements, reference to std. dwg. numbers revised. Note 9 revised to remove external frost strap reference. Notes 12 & 13 revised for anchors not penetrating entire wall thickness
			-	March 2017	
	2-5-2	Typical Precast Circular Maintenance Hole Details (1200mm - 3000mm)	1	Nov. 2019	Frame and cover revised to circular style, revised MIC protection note
	2-0-2	· · · · · · · · · · · · · · · · · · ·	2	Aug. 2020	Conventional boot connector removed and flexible watertight seal added, note added for non pressure design, note added for reference for pipe to MH sizing std 2-5-21
			-	March 2017	
	2-5-3	Typical 1200mm Diameter Precast Circular Maintenance Hole Details	1	Nov. 2019	Frame and cover revised to circular style, frost straps revised, ladder splice added, single top step added
			2	Aug. 2020	Wall opening note revised for flexible watertight seal requirements, note added for non pressure design, maximum pipe size note replaced with reference for pipe to MH sizing std 2-5-21, reference to std. dwg. numbers revised
			-	March 2017	
	2-5-4	Typical 1500mm Diameter Precast Circular Maintenance Hole Details	1	Nov. 2019	Frame and cover revised to circular style, frost straps revised, ladder splice added, single top step added
	201	Typical 1000mm Blambool 1 100000 Giroulai Maintonanoo 11010 Batano	2	Aug. 2020	Wall opening note revised for flexible watertight seal requirements, note added for non pressure design, maximum pipe size note replaced with reference for pipe to MH sizing std 2-5-21, reference to std. dwg. numbers revised
			-	March 2017	
	2-5-5	Typical 1800mm Diameter Precast Circular Maintenance Hole Details	1	Nov. 2019	Frame and cover revised to circular style, frost straps revised, ladder splice added, single top step added
	2-5-5	Typical Touomini Diameter Precast Circular Maintenance Hole Details	2	Aug. 2020	Wall opening note revised for flexible watertight seal requirements, note added for non pressure design, maximum pipe size note replaced with reference for pipe to MH sizing std 2-5-21, reference to std. dwg. numbers revised
			-	March 2017	
	2-5-6	Typical 2400mm Diameter Precast Circular Maintenance Hole Details	1	Nov. 2019	Frame and cover revised to circular style, frost straps revised, ladder splice added, single top step added
	2-5-0	Typical 2400mm Diameter Frecast Circular Maintenance Floie Details	2	Aug. 2020	Wall opening note revised for flexible watertight seal requirements, note added for non pressure design, maximum pipe size note replaced with reference for pipe to MH sizing std 2-5-21, reference to std. dwg. numbers revised
	2-5-7		-	March 2017	
		Typical Lined Or Coated Precast Circular Maintenance Hole Details (HDPE or Other)	1	Nov. 2019	Revised title, frost straps revised, ladder splice and single top step added, general liner and alternate coating notes added
		Typical Lined Of Coaled Frecast Circular Maintenance Hole Details (HDFE of Other)	2	Aug. 2020	Note added for non pressure design, note added for reference for pipe to MH sizing std 2-5-21, reference to std. dwg. numbers revised
		Typical Precast Rectangular Chamber Details For Large Diameter Sanitary Sewers	-	March 2017	
	2-5-9		1	Nov. 2019	Frame and cover revised to circular style, revised MIC protection note, minor note revisions
			2	Aug. 2020	Conventional boot connector removed and flexible watertight seal added, note added for non pressure design, note added for reference for pipe to MH sizing std 2-5-21, added pressure design reference to ACI code 350-06
			-	March 2017	
			1	Nov. 2019	Frame and cover revised to circular style, frost straps revised, ladder splice added, single top step added, minor note revisions
	2-5-10	Typical 1800mm x 2400mm Diameter Precast Rectangular Maintenance Hole Details	2	Aug. 2020	Wall opening note revised for flexible watertight seal requirements, conventional boot connector removed and flexible watertight seal added, note added for non pressure design, maximum pipe size note replaced with reference for pipe to MH sizing std 2-5-21, pipe sizes removed, reference to std. dwg. numbers revised, added pressure design reference to ACI code 350-06
		Typical 2400mm x 3000mm Diameter Precast Rectangular Maintenance Hole Details	-	March 2017	
			1	Nov. 2019	Frame and cover revised to circular style, frost straps revised, ladder splice added, single top step added, minor note revisions
	2-5-11		2	Aug. 2020	Wall opening note revised for flexible watertight seal requirements, conventional boot connector removed and flexible watertight seal added, note added for non pressure design, maximum pipe size note replaced with reference for pipe to MH sizing std 2-5-21, pipe sizes removed, reference to std. dwg. numbers revised, added pressure design reference to ACI code 350-06
	2-5-12	Typical Safety Landing Platform Configurations For Precast Rectangular Chambers	-	March 2017	
Section 2-5	2-5-12	Typical Calcuty Landing Fladronni Connigurations For Frecast Nectangular Chambers	1	Nov. 2019	Section title revised, general note revisions
	2-5-13	Standard Frame And Cover System Details	1	March 2017 Nov. 2019	Ladder splice added, single top step added, note on mechanical anchors added, anchor bolts removed, added tapered composite adjustment
			1		units, premium construction grade adhesive anchoring note added
		Integrated Frame And Cover System Details	-	March 2017	
	2-5-14		1	Nov. 2019	Shims added below adjustment unit, ladder splice added, single top step added, note added for std drawing approval, not permitted use on arterial or collector roads note added
			2	Aug. 2020	Removed suspension and added note 3 for approval of use

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			-	March 2017	
			1	Nov. 2019	Wall opening note revised, grouting note revised
	2-5-15	Typical Flexible Pipe Wall Connection Details	2	Aug. 2020	Wall opening note revised for flexible watertight seal requirements, conventional boot connector removed and flexible watertight seal added, revised note and limit of sanded end on pipe and revised grouting notes to suit seals, note added for non pressure design, note added for reference for pipe to MH sizing std 2-5-21, added enlarged connection detail
			-	March 2017	
			1	Nov. 2019	Section A-A removed, minor note revisions, wall opening note revised, grouting note revised
	2-5-16	Typical Rigid Or Semi-Rigid Pipe Wall Connection Details	2	Aug. 2020	Wall opening note revised for flexible watertight seal requirements, conventional boot connector removed and flexible watertight seal added, revised grouting notes to suit seals, note added for non pressure design, note added for reference for pipe to MH sizing std 2-5-21, added enlarged connection detail
	2-5-17	Typical Ribbed PVC Pipe Wall Connection Details - DELETED	-	March 2017	Deleted
	0.5.40		-	Nov. 2019	New detail added November 2019
	2-5-18	Typical Maintenance Hole Details For Doghouse Installation Over Existing Sewers	1	Aug. 2020	Revised notes on grouting and coating at doghouse wall opening
			-	March 2017	
	2-5-20	Maintananaa Hala Panahing Dataila	1	Nov. 2019	Minor note revisions, revised ladder
		Maintenance Hole Benching Details	2	Aug. 2020	Conventional boot connector removed and flexible watertight seal added at M.H., note added for reference for pipe to MH sizing std 2-5-21, revised pipe penetration distance into MH, schematic diagrams revised to show pipes, revised minimum drop note
	2-5-21 Pipe Size Reference For Precast Maintenance Holes		-	March 2017	
		Pine Size Reference For Precast Maintenance Holes	1	Nov. 2019	Title block format revised
		Tipe dize Notifice For Freedst Manifernance Floids	2	Aug. 2020	Revised title block format, title revised, removed chamber and pipe sizing diagrams and replaced with sizing tables for flexible pipe, rigid or semi rigid pipe, rectangular precast notes added, general notes revised
			-	March 2017	
	2-5-22	Maintenance Hole Venting Details	1	Nov. 2019	Ladder splice added, single top step added, cross-reference notes added
	2-3-22	Maniteriance hole venting Details	2	Aug. 2020	Wall opening note revised for flexible watertight seal requirements, conventional boot connector removed and flexible watertight seal added, revised note for sanded end on pipe and grouting to suit seals
	2-5-23	Typical Frost Strap Details - DELETED	-	March 2017	Deleted and moved to section 2-6
	2-5-24	Sanitary Chamber Marking Post - DELETED	-	March 2017	Deleted and moved to section 2-6
			-	March 2017	
	2-5-25	Waterproofing Details	1	Nov. 2019	Title revised, frost straps revised, ladder splice added, anchor bolts removed, minor note revisions, added tapered composite adjustment units, premium construction grade adhesive anchoring note added
		Maintenance Hole Drop Structure External Assembly	-	March 2017	
	2-5-26 Ma		1	Nov. 2019	Minor note revisions, cross-reference notes added
			2	Aug. 2020	Conventional boot connector removed and flexible watertight seal added at M.H., note added for external drop structures typical for new sanitary sewer system construction
		Maintenance Hole Drop Structure Internal Assembly	-	March 2017	
	2-5-27		1	Nov. 2019	Title revised, existing exterior use only notes revised, notes revised, minimum 1800 dia. added, SS strap anchor notes revised.
			2	Aug. 2020	Conventional boot connector removed and flexible watertight seal added at M.H., note added for internal drop structures typical for connection to existing sanitary sewer systems

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	2-6-1	Heavy Duty 660mm Circular Frame And Cover	-	March 2017	
	2-0-1	Ticavy Buty Goothin Gircular France And Gover	1	Nov. 2019	Added general note for referencing preferred 745mm frame & cover as per 2-6-2
			2	Oct 2023	changed 25mm requirement of "sanitary" to 50mm . Add OPSS 1850 ref. removed "sewer' from cover casting and center "sanitary"
			3	Dec 2023	Remove "REFER TO OPSD 401.020 OR STANDARD DRAWING 2-6-2". from note block.
	2-6-2	Heavy Duty 745mm Circular Frame And Cover With Inflow Dish Option	-	March 2017	
			1	Nov. 2019	Added 25mm diameter drilled holes in frame for anchoring, revised diameter of optional cover, minor note revisions
	2-6-3	Standard Heavy Duty Frame and Cover with Inflow Dish Option - DELETED	-	March 2017	Deleted
	2-6-4	Heavy Duty Water Tight Frame And Cover	-	March 2017	
			-	March 2017	
	2-6-5	Integrated Frame And Cover System With Inflow Dish Option	1	Nov. 2019	Suspended
			2	Aug. 2020	Removed suspension and added notes for approval of use
	266	IF I D - 7 D I I - F A 10 0 1 - WII O F - I A F 1 I I I	-	March 2017	
	2-6-6	High Density Rubber Frame And Cover System With Optional Adjustment Units	1	Nov. 2019	Revised general notes, optional extension ring removed, added tapered adjustment unit detail
	0.07	Detail Of Anchoring Method For Maintenance Hole With Adhesive	-	March 2017	
	2-6-7		1	Nov. 2019	Title revised, threaded rod deleted and notes revised, added tapered composite adjustment units
	2-6-8	Detail of Anchoring Method for Water Tight Maintenance Hole with Aluminum, Stainless Steel OR Galvanized Strap - DELETED	-	March 2017	Deleted
	2-6-9	2-6-9 FRP Ladder Details (Typical)	-	March 2017	
			1	Nov. 2019	Title revised, splice detail removed
Section 2-6			2	Aug. 2020	Revised general notes 8 & 9 for anchor inserts
	2-6-10	Aluminum Ladder Details	-	March 2017	
			1	Nov. 2019	Title revised with typical removed, minor note revisions
	2-6-11	Step Details	-	March 2017	
			1	Nov. 2019	Title revised, PCCP revised to AWWA C300 Series
			2	Aug. 2020	Revised AWWA C300 series to C30X series
	0.0.40	D 4 11 FDD1 11 - D 4 7	-	March 2017	
	2-6-12	Portable FRP Ladder Details	1	Nov. 2019	General notes revised
			-	March 2017	
	2-6-13	Typical 1200 Or 1500 Diameter FRP Safety Landing Details	1	Nov. 2019	General notes revised
			2	Aug. 2020	Conventional boot connector removed and flexible watertight seal added at M.H., revised general notes 13 & 14 for anchor inserts
			_	March 2017	
	2-6-14	Typical 1200 Or 1500 Diameter Aluminum Safety Landing Details	1		General notes revised
			2	Aug. 2020	Conventional boot connector removed and flexible watertight seal added at M.H., revised general notes 13 & 14 for anchor inserts
	2-6-15 T		-	March 2017	25. 25. 25. 100. 10 more and notice materiagne out added at the figure of general notes to a 14 for another motion
		Typical Safety Landing Platform Configurations	1	Nov. 2019	General notes revised, minor note revisions and FRP references within details removed
			2	Aug. 2020	Revised general notes 13 & 14 for anchor inserts
				-	Existing Std Dwg moved from Section 2-5, Title revised, revised angle brackets to flat strap, gussets removed, insert and hole dia. notes
	2-6-16	Typical Frost Strap Details For Precast Maintenance Holes	-	Nov. 2019	revised
	2-6-17	Sanitary Chamber Marking Post	-	Nov. 2019	Existing Std Dwg moved from Section 2-5, Region logo updated on sticker

	Drawing Number	Standard Drawing Title/Description	Revision Number	Revision Date	Revisions or Modifications
			-	March 2017	
	2-7-1	General Notes For AWWA C30X Service (CPP) Maintenance Holes	1	Nov. 2019	Title revised, revised notes on FRP platforms & ladders, notes on factory achoring inserts, added connection notes, revised pipe specifications to AWWA C300 series, note added for typical sizes and configurations
			2	Aug. 2020	Added note 25 for pressure design reference to ACI code 350-06, Revised AWWA C300 series to C30X series, and title revised
			-	March 2017	
	2-7-2	Typical 1200mm Diameter CPP Maintenance Hole Details With 600mm Diameter Pipe	1	Nov. 2019	Frost straps revised, ladder splice added, single top step added, note for alternate flat cap added,revised insert achoring notes, added joint diapering and grouting note, minor note revisions, PCCP revised to AWWA C300 series
			2	Aug. 2020	Revised AWWA C300 series to C30X series
			-	March 2017	
	2-7-3	Typical 1500mm Diameter CPP Maintenance Hole Details With 750mm Diameter Pipe	1	Nov. 2019	Frost straps revised, ladder splice added, single top step added, note for alternate flat cap added, revised insert achoring notes, added joint diapering and grouting note, minor note revisions, PCCP revised to AWWA C300 series
			2	Aug. 2020	Revised AWWA C300 series to C30X series
			-	March 2017	Front strong revised ladder online added single towards added note for alternate flet can added revised input apparing notes, added injut
	2-7-4	Typical 1800mm Diameter CPP Maintenance Hole Details With 1050mm Diameter Pipe	1	Nov. 2019	Frost straps revised, ladder splice added, single top step added, note for alternate flat cap added, revised insert achoring notes, added joint diapering and grouting note, minor note revisions, PCCP revised to AWWA C300 series
			2	Aug. 2020	Revised AWWA C300 series to C30X series
			-	March 2017	Frost straps revised, ladder splice added, single top step added, note for alternate flat cap added,revised insert achoring notes, added joint
	2-7-5	Typical 2400mm Diameter CPP Maintenance Hole Details With 1350mm Diameter Pipe	1	Nov. 2019	diapering and grouting note, minor note revisions, PCCP revised to AWWA C300 series
			2	Aug. 2020	Revised AWWA C300 series to C30X series
		Typical 1500mm Diameter CPP Tangent Tee Maintenance Hole Details	-	March 2017	
Section 2-7	2-7-6		1	Nov. 2019	Frost straps revised, ladder splice added, single top step added, note for alternate flat cap added,revised insert achoring notes, added joint diapering and grouting note, minor note revisions, PCCP revised to AWWA C300 series
			2	Aug. 2020	Revised AWWA C300 series to C30X series
		Typical 1800mm Diameter CPP Tangent Tee Maintenance Hole Details	-	March 2017	
	2-7-7		1	Nov. 2019	Frost straps revised, ladder splice added, single top step added, note for alternate flat cap added,revised insert achoring notes, added joint diapering and grouting note, minor note revisions, PCCP revised to AWWA C300 series
			2	Aug. 2020	Revised AWWA C300 series to C30X series
	2-7-8	Typical 2400mm Diameter CPP Tangent Tee Maintenance Hole Details	-	March 2017	
			1	Nov. 2019	Frost straps revised, ladder splice added, single top step added, note for alternate flat cap added, PCCP revised to AWWA C300 series
			2	Aug. 2020 March 2017	Revised AWWA C300 series to C30X series
	2-7-9	CPP To Precast Concrete Riser Transition Detail	1	Nov. 2019	Frost straps revised, anchor insert note revised, PCCP revised to AWWA C300 series
			2	Aug. 2020	Revised AWWA C300 series to C30X series, revised reference numbers to standard drawings
			-	March 2017	reviews from the contract to contract for the contract to the contract of the
	2-7-10	CPP Anchor Detail For Ladder Or Safety Landings	1	Nov. 2019	PCCP revised to AWWA C300 series
			2	Aug. 2020	Revised AWWA C300 series to C30X series
		Maximum Sizes For CPP Maintenance Holes Typical AWWA C30X Series (CPP) Trunk Sewer With Pre-Service Outlet (CPP) For Future Service Connection	-	March 2017	
	2-7-11		1	Nov. 2019	PCCP revised to AWWA C300 series
			2	Aug. 2020	Revised AWWA C300 series to C30X series
	2-7-12		-	Nov. 2019	New detail added November 2019
			1	Aug. 2020	Revised AWWA C300 series to C30X series and title revised
	2-8-1	General Notes For Existing Maintenance Holes	-	March 2017	
			1	Nov. 2019	General notes revised
	2-8-2	Typical Existing Precast Maintenance Hole Joint Repair Option - No Excavation	<u> </u>	March 2017	Freet strong revised ledder revised single top stop added approved materials revised with a set and in the second
			1	Nov. 2019 March 2017	Frost straps revised, ladder revised, single top step added, approved materials revised, minor note revisions
		Typical Existing Precast Maintenance Hole Liner or Coating Repair Option - No Excavation	1	Nov. 2019	Frost straps revised, ladder revised, single top step added, approved materials revised, minor note revisions
			 	March 2017	The state of the s
		High Density Rubber Frame And Cover System With Partial Excavation	1	Nov. 2019	Revised existing grade position, extension riser removed, minor note revisions
	2-8-5	High Density Rubber Frame And Cover System And Composite Grade Adjustment Units With Partial Excavation	-	March 2017	
			1	Nov. 2019	Revised existing grade position, extension riser removed, minor note revisions, added tapered composite adjustment units
			-	March 2017	

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Section 2-8	2-8-6	Standard Frame And Cover System And Precast Grade Adjustment Units With Partial Excavation	1	NAV 2014	Added approved grout material, minor note revisions, anchor bolts removed, added tapered composite adjustment units, premium construction grade adhesive anchoring note added
			-	March 2017	
	2-8-7	Integrated Frame And Cover System With Excavation To M.H. Top Riser Section	1	Nov. 2019	Shims added below adjustment unit, single top step added, not permitted use on arterial or collector roads note added
			2	Aug. 2020	Removed suspension and added note 3 for approval of use
	2-8-8	Existing Adjustment Unit Repair (Mechanical) With No Excavation	-	March 2017	
			1	Nov. 2019	Title revised, added approved grout material, minor note revisions
	2-8-9	Existing Adjustment Unit Repair (Lining) With No Excavation	-	March 2017	
			1	Nov. 2019	Title revised, added approved grout material, minor note revisions
	2-8-10	Typical Existing Maintenance Hole Base Section Internal Repair With No Excavation	-	March 2017	
			1	Nov. 2019	Minor note revisions
	2-8-11	Cast-In-Place Transition Section From Existing Square Maintenance Hole To Circular Section With Frame And Cover Replacement	-	March 2017	
			1	Nov. 2019	Ladder revised, single top step added, minor note revisions