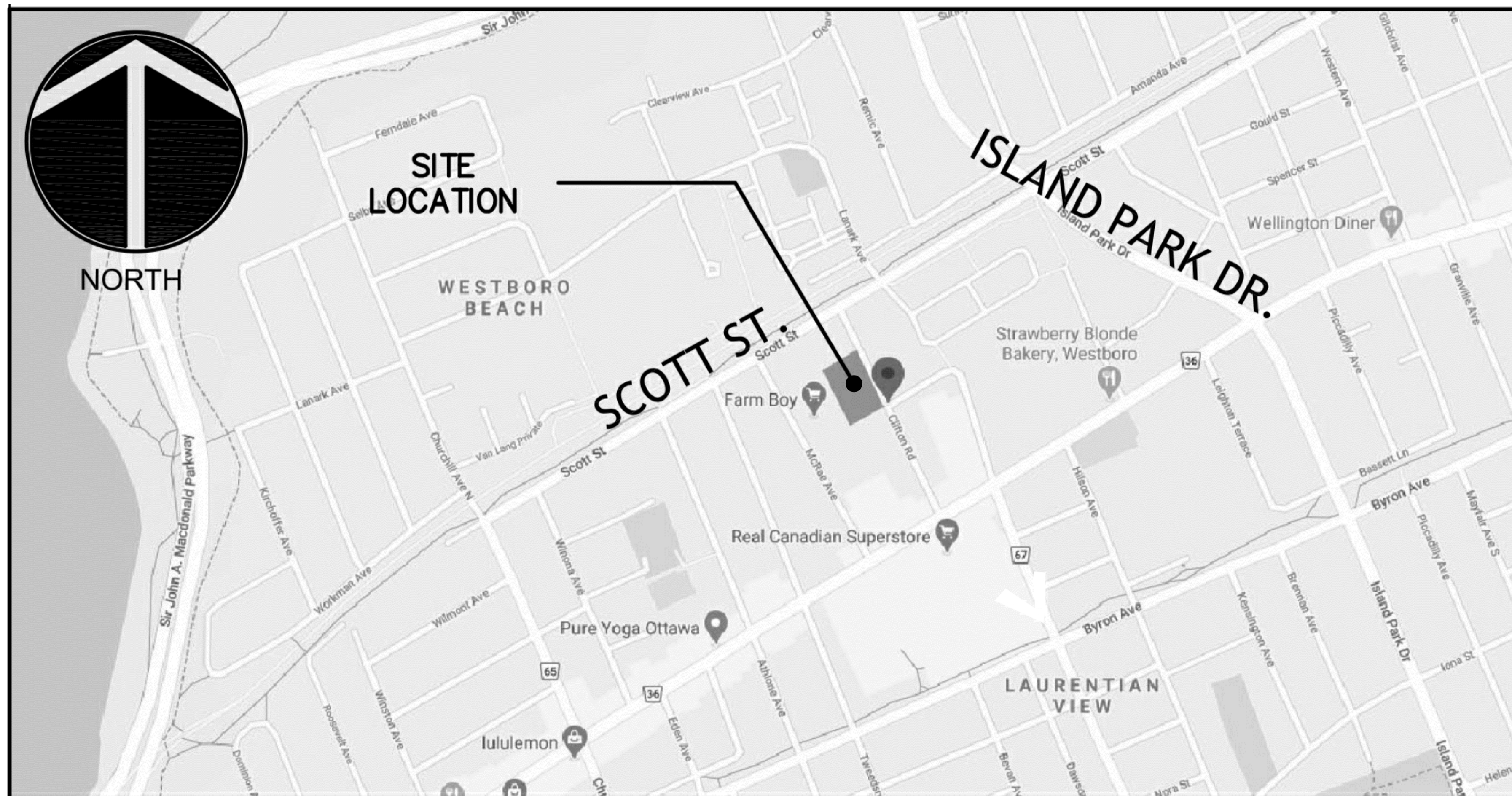


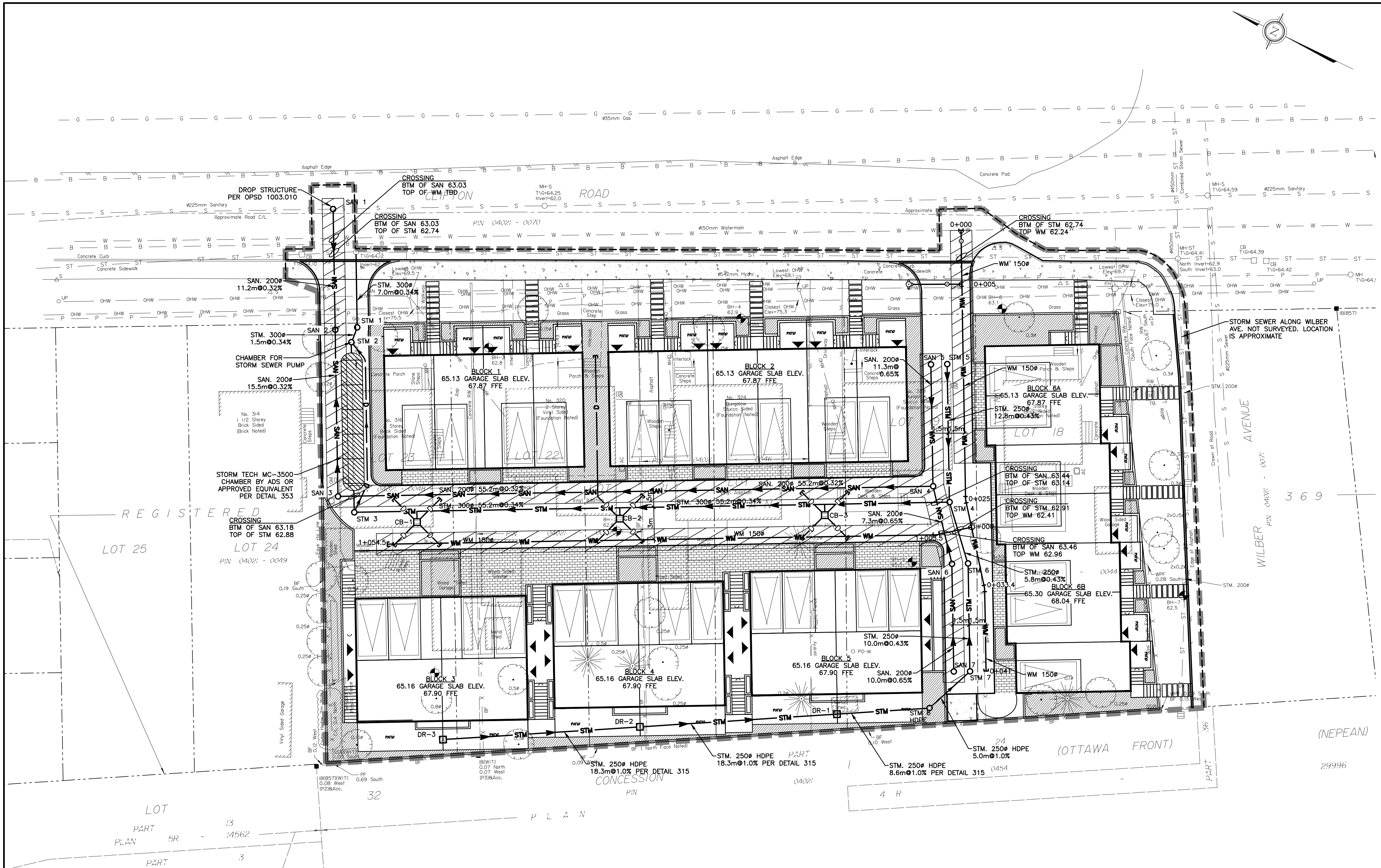
CLIFTON PROPERTY DEVELOPMENT INC.



CLIFTON TOWNS 316-332 CLIFTON ROAD

LIST OF DRAWINGS

PLAN No:	DESCRIPTION
C001	COVER PAGE
C002	TOPOGRAPHICAL SURVEY PLAN
C003	EROSION AND SEDIMENT CONTROL PLAN
C004A	NOTES PLAN - 1 of 2
C004B	NOTES PLAN - 2 of 2
C005	GRADE CONTROL AND DRAINAGE PLAN
C006	SITE SERVICING PLAN
C007	CIVIL DETAILS PLAN - 1 of 10
C008	CIVIL DETAILS PLAN - 2 of 10
C009	CIVIL DETAILS PLAN - 3 of 10
C010	CIVIL DETAILS PLAN - 4 of 10
C011	CIVIL DETAILS PLAN - 5 of 10
C012	CIVIL DETAILS PLAN - 6 of 10
C013	CIVIL DETAILS PLAN - 7 of 10
L001	LANDSCAPING PLAN
L002	LANDSCAPING DETAILS



EXISTING	LEGEND	PROPOSED
○ FH	FIRE HYDRANT	○ ⊗
○ MH-ST	MAINTENANCE HOLE (STORM SEWER)	○ ○
○ MH-S	MAINTENANCE HOLE (SANITARY)	○ ○
○ MH	MAINTENANCE HOLE (UNIDENTIFIED)	○ ○
— ST	UNDERGROUND STORM SEWER	— STM
— S	UNDERGROUND SANITARY SEWER	— SAN
— W	UNDERGROUND WATER SEWER	— WM
— P	PERFORATED SUBDRAIN	— D
—	UNDERGROUND POWER	
—	UNDERGROUND GAS	
—	UNDERGROUND TELECOMMUNICATION	
—	BELL CABLE	
—	OVERHEAD WIRES	
□ CB	CATCH BASIN	□ □ □
□ GM	GAS METER	
□ HM	HYDRO METER	
BF	BOARD FENCE	
WPF	WOOD PICKET FENCE	
○ LP	UTILITY POLE	
○ AN	ANCHOR	
□ AC	AIR CONDITIONER	
RW	RETAINING WALL	
○	DIAMETER	
○	LOCATION OF ELEVATIONS	
○	TOP OF CONCRETE CURB / RW ELEVATION	
○	CENTRELINE	
○	DECIDUOUS TREE	
○	CONIFEROUS TREE	
○	WOOD POLE	
△ S	SIGN	
△ TB	UNIDENTIFIED TERMINAL BOX	
---	PROPERTY LINE	
---	EASEMENT	
---	WORK LIMIT	
---	SEWER / WATERMAIN INSULATION	

NO.	DATE	REVISION
01	21/01/25	ISSUED FOR SITE PLAN CONTROL

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HOBIN
 ARCHITECTURE

project title
CLIFTON TOWNS
316-332 CLIFTON ROAD
CLIFTON ROAD, OTTAWA, ONTARIO

drawing title
SITE SERVICING

drawn
 SCP

date
 JAN/21

scale
 1:200

project
 100102

drawing no.
C006

revision no.

NOTE OF CAUTION

THE GEODETIC COORDINATES OF EVERY ITEM INCLUDED AS PART OF THIS DOCUMENT HAVE NO LEGAL VALUE. THE SITE LAYOUT MUST BE COMPLETED USING THE OFFICIAL BENCHMARKS OF AN ACCREDITED LAND SURVEYOR.

THE UNDERGROUND FEATURES AND INFORMATION THAT APPEAR ON THE DRAWINGS WERE OBTAINED FROM THE PUBLIC UTILITY COMPANIES AND/OR FROM THE CITY EACH RESPECTIVELY.

ALL INFORMATION UNDER THE LEGEND 'EXISTING' IS FOR INFORMATION ONLY. COMPLETE OR EXACT LOCATION AND ELEVATION OF UNDERGROUND SERVICES ARE NOT GUARANTEED.

CERTAIN UNDERGROUND FEATURES ON PRIVATE PROPERTY ARE NOT SHOWN ON THE CURRENT DRAWING.

ANYONE WHO PROCEEDS WITH EXCAVATION WORK SHALL VERIFY THE EXACT LOCATION OF ALL UNDERGROUND FEATURES, BY EXPLORATORY EXCAVATIONS, AND SHALL ASSUME FULL RESPONSIBILITY IF THERE IS ANY DAMAGE THAT OCCURS DURING WORK.

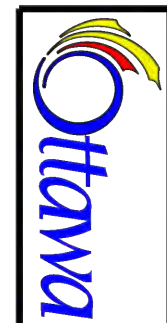
THE CONTRACTOR WILL HAVE THE RESPONSIBILITY AND THE OBLIGATION TO VALIDATE, BY EXPLORATORY EXCAVATION, THE SIZE OF THE PUBLIC UTILITIES AND SERVICES AND TO WARN THE ENGINEER OF ANY CONFLICT WITH THE PROJECTED WORK.



STRUCTURE NUMBER	TOP	INVERTS				MH diam (mm)	TYPE
		NORTH	EAST	SOUTH	WEST		
STM-EXIST	64.12	62.30	-	62.30	62.45	1200	MH
STM-1	64.45	-	62.47	-	62.50	1200	MH
STM-2	64.45	-	62.51	-	62.54	1200	MH
STM-3	64.98	-	62.59	62.65	-	1200	MH
STM-4	65.21	62.84	62.90	-	62.90	1200	MH
STM-5	65.05	-	-	-	62.95	1200	MH
STM-6	65.24	-	62.93	-	62.95	1200	MH
STM-7	65.27	-	63.00	-	-	1200	MH
STM-8	66.10	63.56	63.54	-	-	900	MH
SAN-1	64.22	61.85	-	61.85	63.03	1200	MH
SAN-2	64.42	-	63.06	-	63.08	1200	MH
SAN-3	64.86	-	63.12	63.18	-	1200	MH
SAN-4	65.18	63.35	63.41	-	63.43	1200	MH
SAN-5	65.01	-	-	-	63.49	1200	MH
SAN-6	65.21	-	63.48	-	63.51	1200	MH
SAN-7	65.26	-	63.57	-	-	1200	MH
CB-1	64.98	-	63.58	-	-	600	CB
CB-2	64.99	-	63.59	-	-	600	CB
CB-3	65.30	-	63.63	-	-	600	CB
DR-1	65.76	63.64	-	63.64	-	300	DR
DR-2	65.76	63.83	-	63.83	-	300	DR
DR-3	65.76	-	-	64.01	-	300	DR

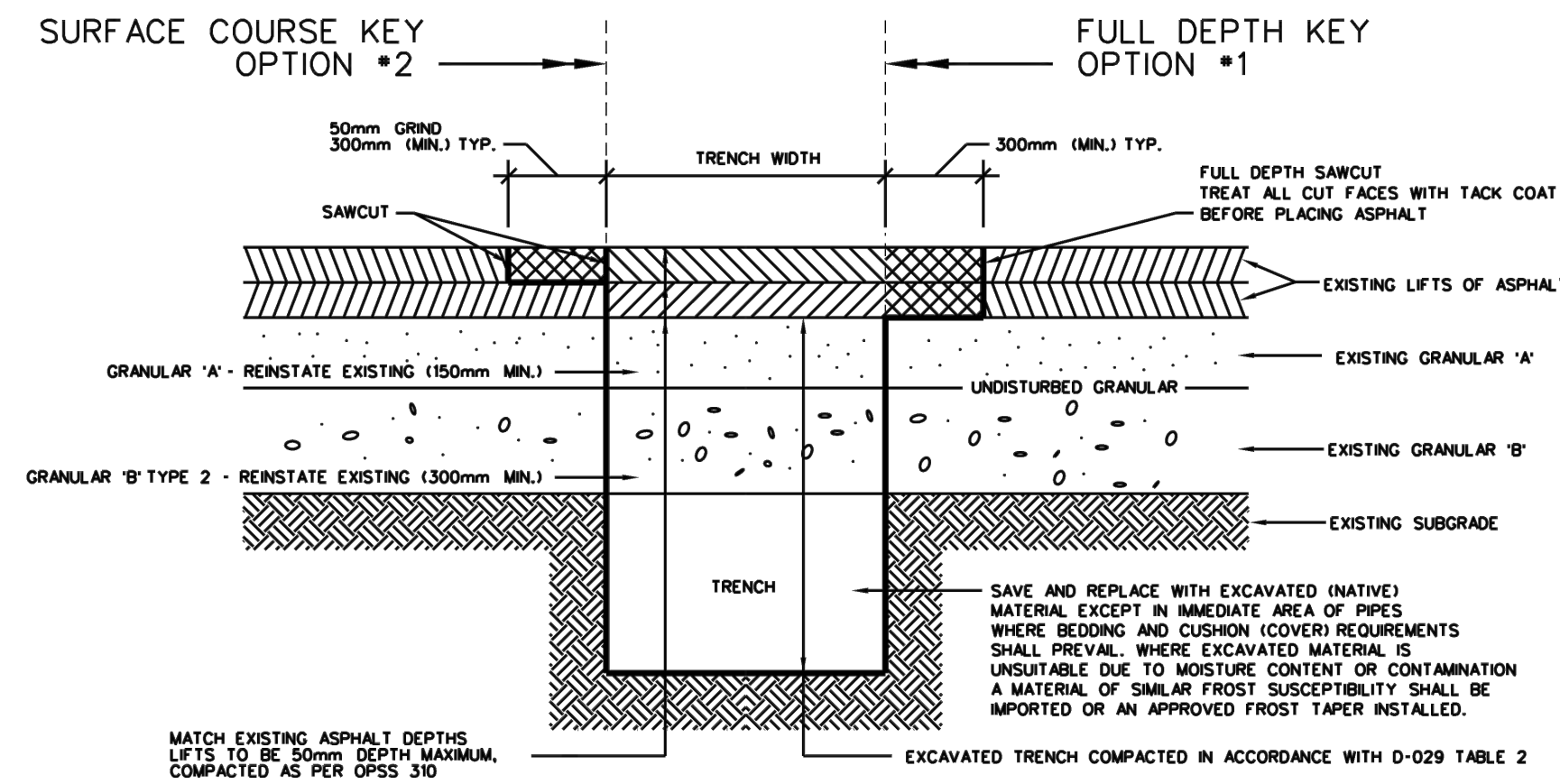
MH → MANHOLE
 MHCB → MANHOLE CATCH BASIN
 CB → CATCH BASIN
 OGS → OIL AND GRIT SEPARATOR
 DR → INLINE DRAIN

WATERMAIN TABLE			
CHAINAGE	ITEM	FINISHED GRADE	TOP OF WATERMAIN
0+00	CONNECTION TO MAIN	64.44	TBD
0+002.5	STORM SEWER CROSSING	64.44	62.24
0+005	FIRE HYDRANT LEAD TEE	64.63	63.25
0+005	FIRE HYDRANT	64.56	63.25
0+025	ELBOW	65.25	62.85
0+033.4	ELBOW	65.27	62.87
0+041	END CAP	65.28	62.88
1+000	TEE	65.26	62.86
1+001.5	STORM SEWER CROSSING	65.22	62.41
1+003	SANITARY SEWER CROSSING	65.20	62.96
1003.5	ELBOW	65.19	63.99
1+054.5	END CAP	65.05	63.85



STANDARD TRENCH REINSTATEMENT
IN PAVED SURFACE

DATE: MAY 2001
REV. DATE: MARCH 2007
DWG. No.: R10

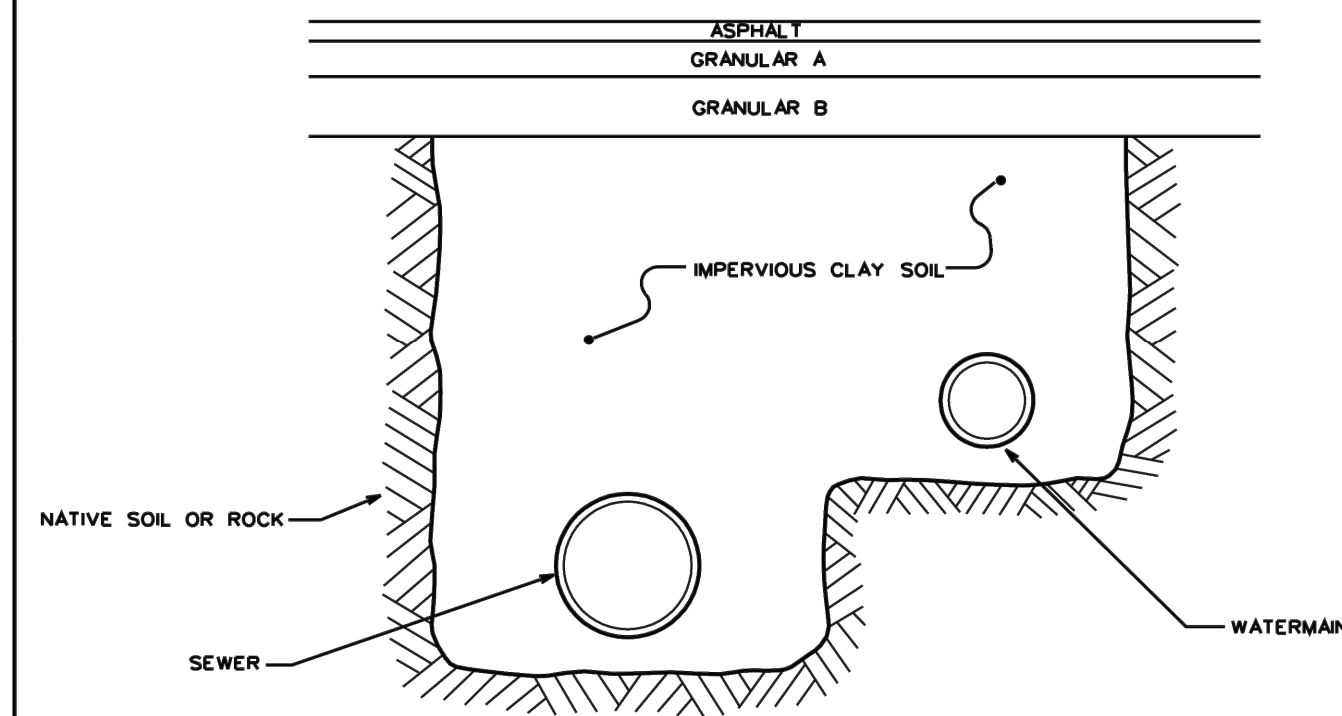


- NOTES:**
1. ALL EXISTING ASPHALT TO BE SAW CUT.
 2. UNLESS SPECIFIED ELSEWHERE, SURFACE COURSE ASPHALT SUPERPAVE 12.5mm LEVEL B (PG58-34) AND BASE COURSE ASPHALT SUPERPAVE 19.0mm LEVEL B (PG58-34) IS TO BE USED.
 3. UNLESS SPECIFIED ELSEWHERE, WHERE EXISTING PAVEMENT STRUCTURE EXCEEDS 150mm IN DEPTH, ASPHALT REINSTATEMENT SHALL BE 150mm AND GRANULAR "A" FOR THE REMAINDER.
 4. UNLESS SPECIFIED ELSEWHERE, WHERE AN UNDERLYING LAYER OF CONCRETE PAVEMENT EXISTS, REINSTATEMENT SHALL CONSIST OF 150mm OF SUPERPAVE 19.0mm LEVEL B (PG58-34) COMPACTED IN LIFTS.
 5. UNLESS SPECIFIED ELSEWHERE, HOT MIX ASPHALT PLACEMENT AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH F-3130.



CLAY SEAL FOR PIPE TRENCHES

DATE: MAY 2001
REV. DATE: MARCH 2006
DWG. No.: SB

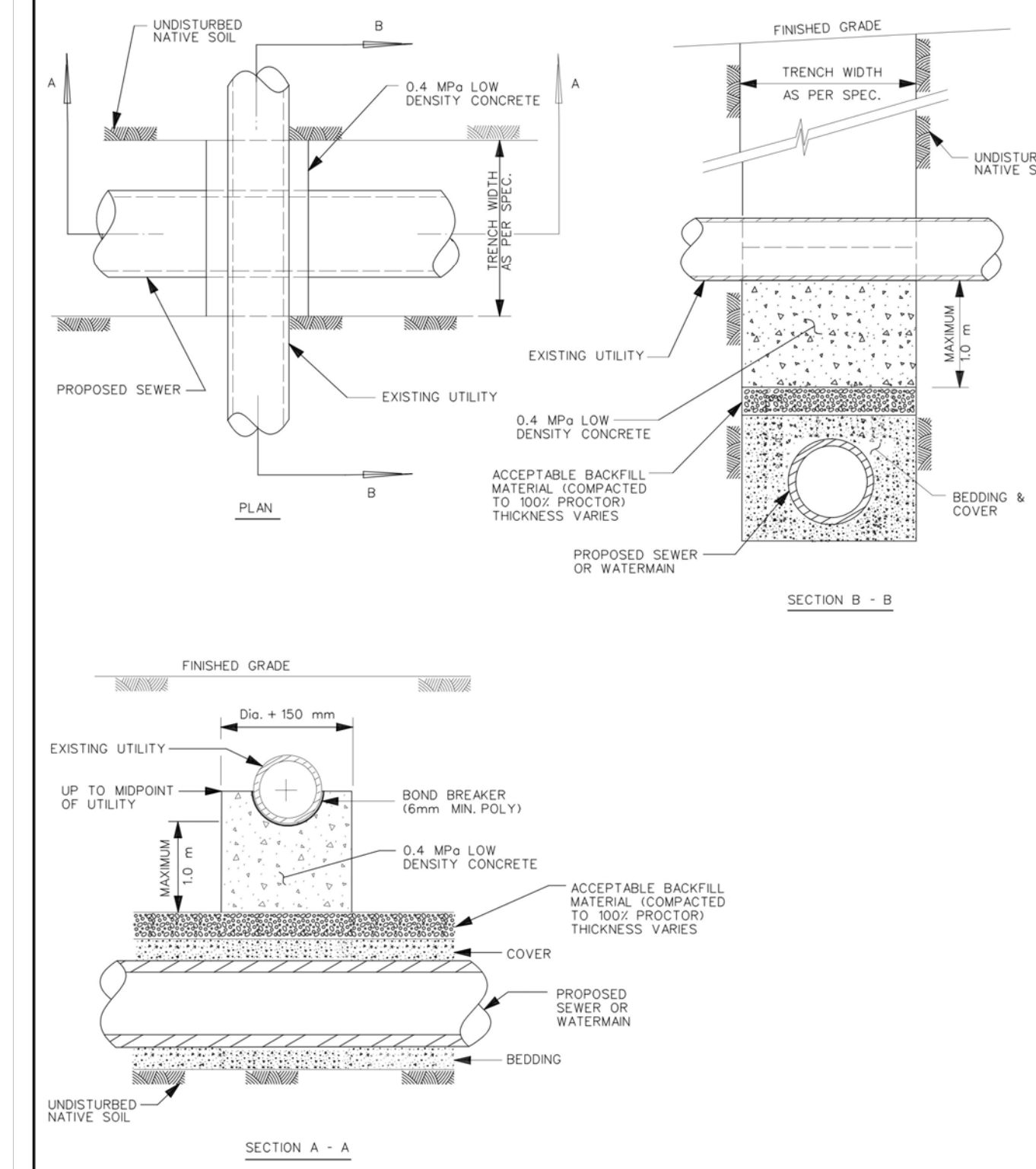


- NOTES:**
1. CLAY SEAL TO EXTEND FROM BOTTOM OF TRENCH EXCAVATION TO UNDERSIDE OF ROAD STRUCTURE.
 2. CLAY SEAL TO EXTEND FULL TRENCH WIDTH TO EXISTING NATIVE SOILS WITH A MINIMUM THICKNESS OF 1.0m ALONG PIPES.
 3. CLAY SEAL TO BE LOCATED SO THAT NO PIPE JOINTS ARE WITHIN THE CLAY SEAL MATERIAL.



SUPPORT DETAIL FOR EXISTING UTILITY CROSSING SEWER OR WATERMAIN TRENCH

DATE: MAY 2001
REV. DATE: NONE
DWG. No.: S10



01 21/01/25 ISSUED FOR SITE PLAN CONTROL

no. date revision

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project title
CLIFTON TOWNS
316-332 CLIFTON ROAD

CLIFTON ROAD, OTTAWA, ONTARIO

drawing title
DETAILS PLAN

drawn by
SCP

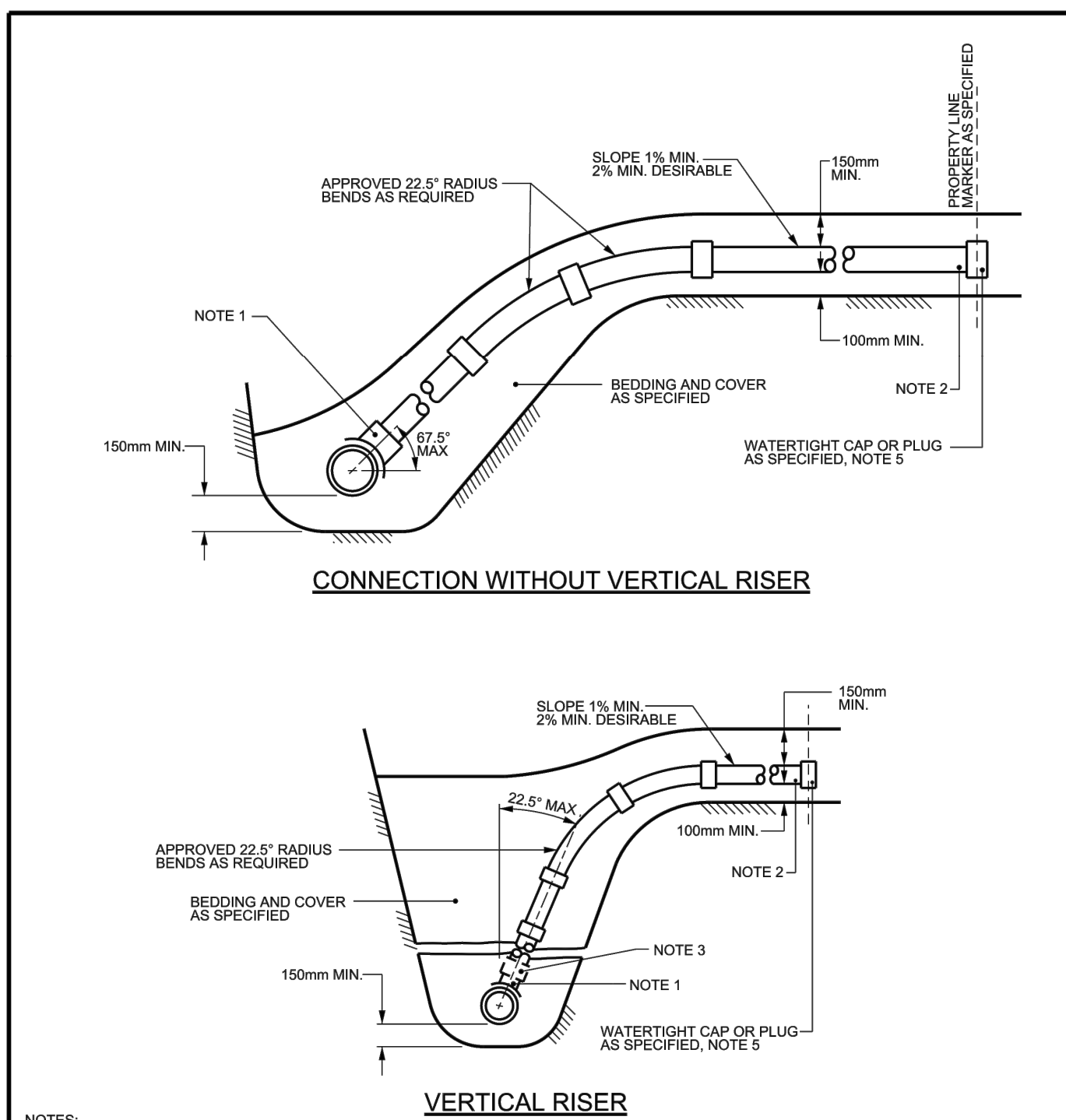
date
JAN/21

scale
1:200

project
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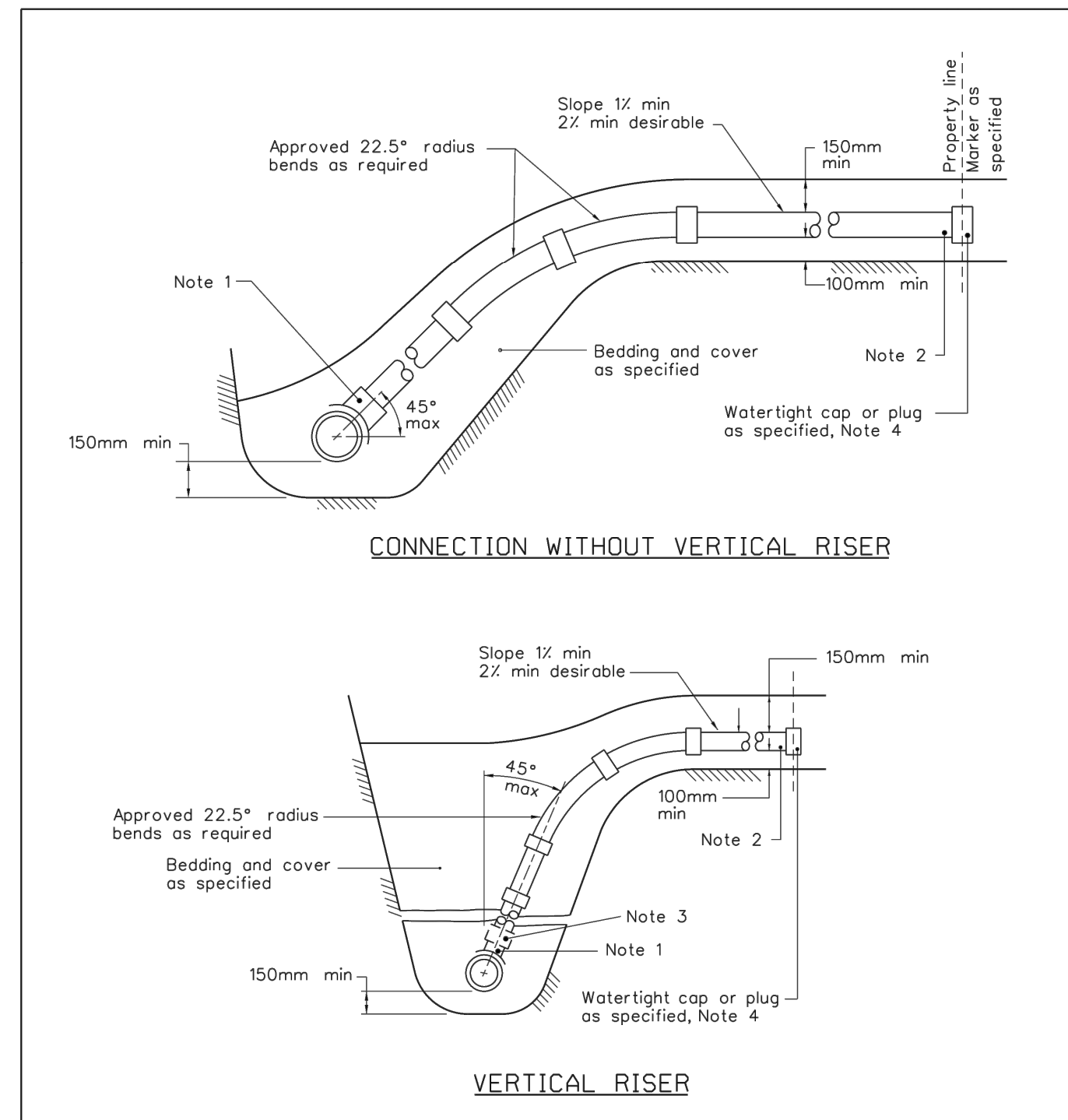
drawing no.
C008

revision no.



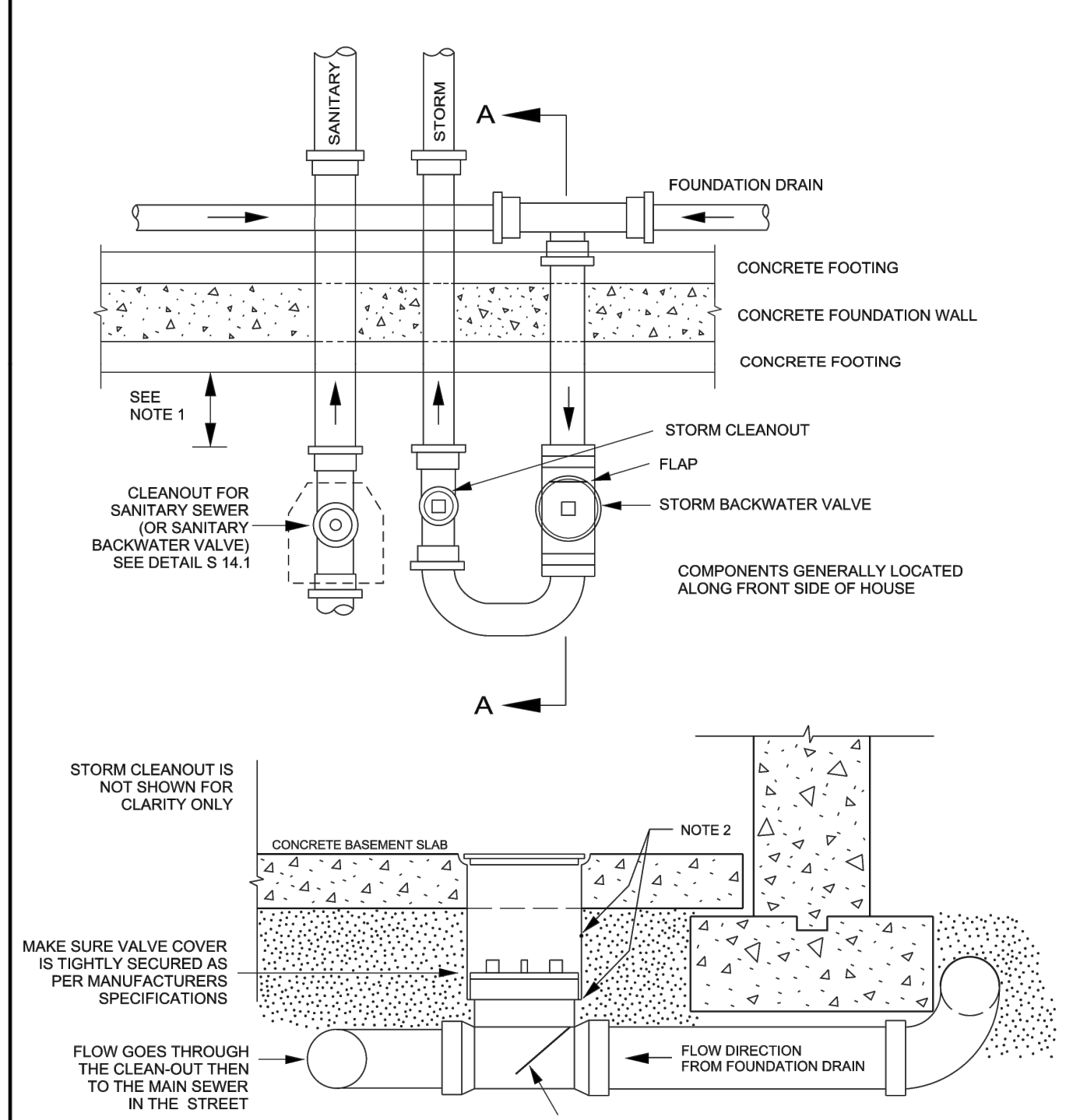
- NOTES:**
1. ALL DIAMETERS OF SERVICE CONNECTIONS THAT HAVE NOMINAL DIAMETERS NO GREATER THAN 50% OF THE NOMINAL DIAMETER OF THE RIGID SEWER PIPE SHALL BE MADE USING A BELL END INSERT AS PER S11.2 OR AN APPROVED RUBBER GASKETED INSERT, INSTALLED ABOVE THE SPRING LINE.
 2. SANITARY SERVICES TO BE 135mm AND STORM SERVICES TO BE 100mm FOR NEW RESIDENCES UNLESS SPECIFIED OTHERWISE. SERVICE PIPE AND RADIUS BENDS TO BE APPROVED CSA B182.2, SDR28 PRODUCTS UNLESS SPECIFIED OTHERWISE.
 3. APPROVED CONTROLLED SETTLEMENT JOINTS OPTIONAL FOR SERVICE CONNECTIONS TO MAIN SEWERS UP TO 5m DEEP. WHERE APPROVED, CONNECTIONS TO SEWERS OVER 5m DEEP REQUIRE APPROVED CONTROLLED SETTLEMENT JOINTS.
 4. VERTICAL RISER SHALL BE SAME AS SERVICE PIPE UNLESS OTHERWISE SPECIFIED.
 5. CAP OR PLUG AT THE PROPERTY LINE SHALL BE ADEQUATELY BRACED TO WITHSTAND TESTING PRESSURE.
 6. FOR NEW CONSTRUCTION, INSERTS MUST BE INSTALLED ON THE MAIN PIPE BEFORE THAT PIPE IS LAID. FOR SERVICES BRANCHES 375mm DIA. OR LESS, APPROVED "CORED TEES" MAY BE USED.
 7. APPROVED CUT-IN TOOL MUST BE USED FOR FIELD MADE CONNECTIONS.
 8. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE SHOWN.

SEWER SERVICE CONNECTIONS FOR RIGID MAIN SEWER PIPE (MODIFIED OPSD-1006.010)
DATE: MARCH 2006
REV. DATE: MARCH 2014
DWG. No.: S11



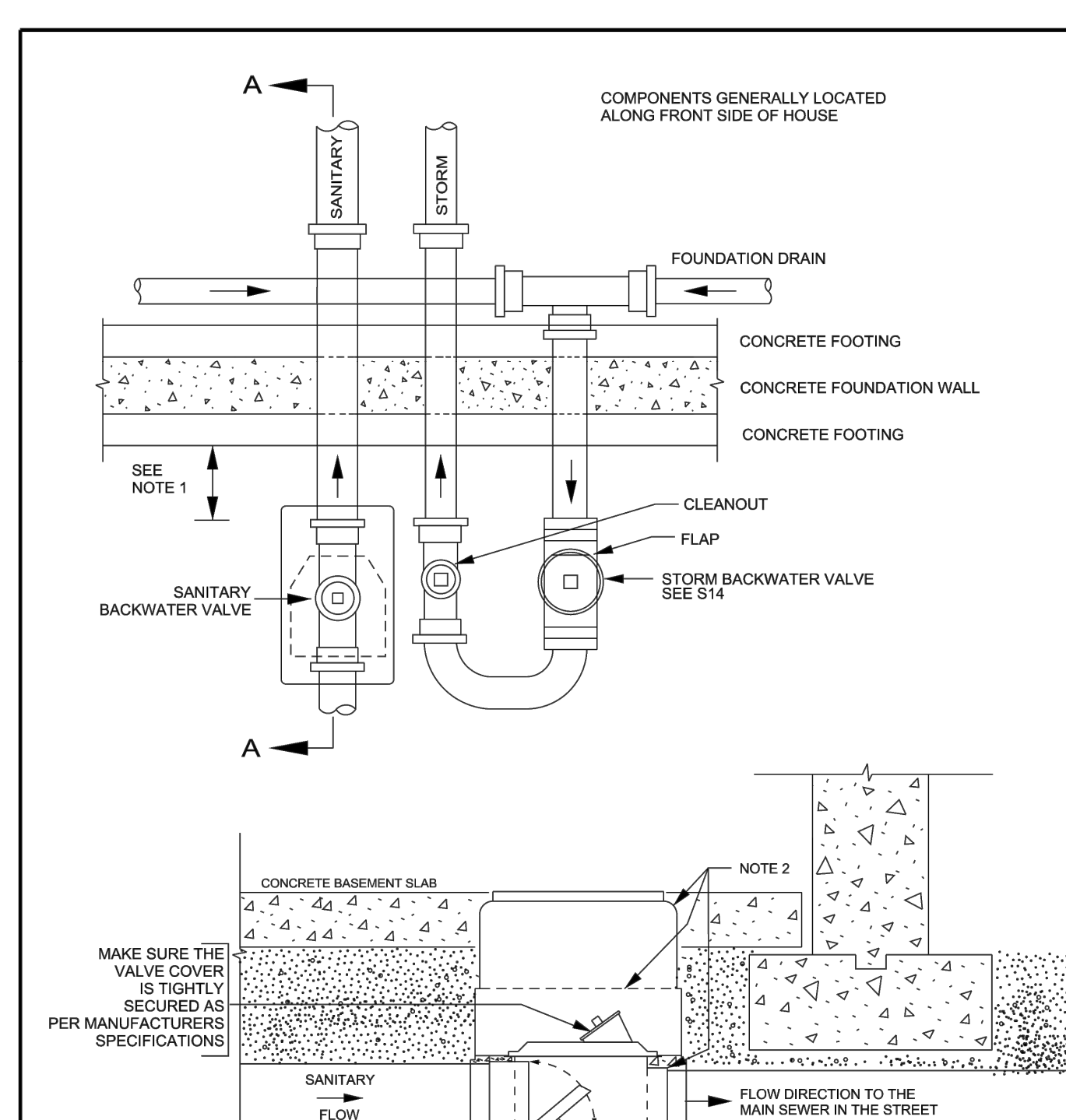
- NOTES:**
1. ALL DIAMETERS OF SERVICE CONNECTIONS TO FLEXIBLE MAIN SEWER SHALL BE MADE USING APPROVED TEE OR WYE FITTINGS.
 2. SANITARY SERVICES TO BE 135mm AND STORM SERVICES TO BE 100mm FOR NEW RESIDENCES UNLESS SPECIFIED OTHERWISE. SERVICE PIPE AND RADIUS BENDS TO BE APPROVED CSA B182.2, SDR28 PRODUCTS UNLESS SPECIFIED OTHERWISE.
 3. APPROVED CONTROLLED SETTLEMENT JOINTS OPTIONAL FOR SERVICE CONNECTIONS TO MAIN SEWERS UP TO 5m DEEP. WHERE APPROVED, CONNECTIONS TO SEWERS OVER 5m DEEP REQUIRE APPROVED CONTROLLED SETTLEMENT JOINTS.
 4. CAP OR PLUG AT THE PROPERTY LINE SHALL BE ADEQUATELY BRACED TO WITHSTAND TESTING PRESSURE.
 5. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE SHOWN.

SEWER SERVICE CONNECTIONS FOR FLEXIBLE MAIN SEWER PIPE (MODIFIED OPSD-1006.020)
DATE: MARCH 2006
REV. DATE: MARCH 2013
DWG. No.: S11.1



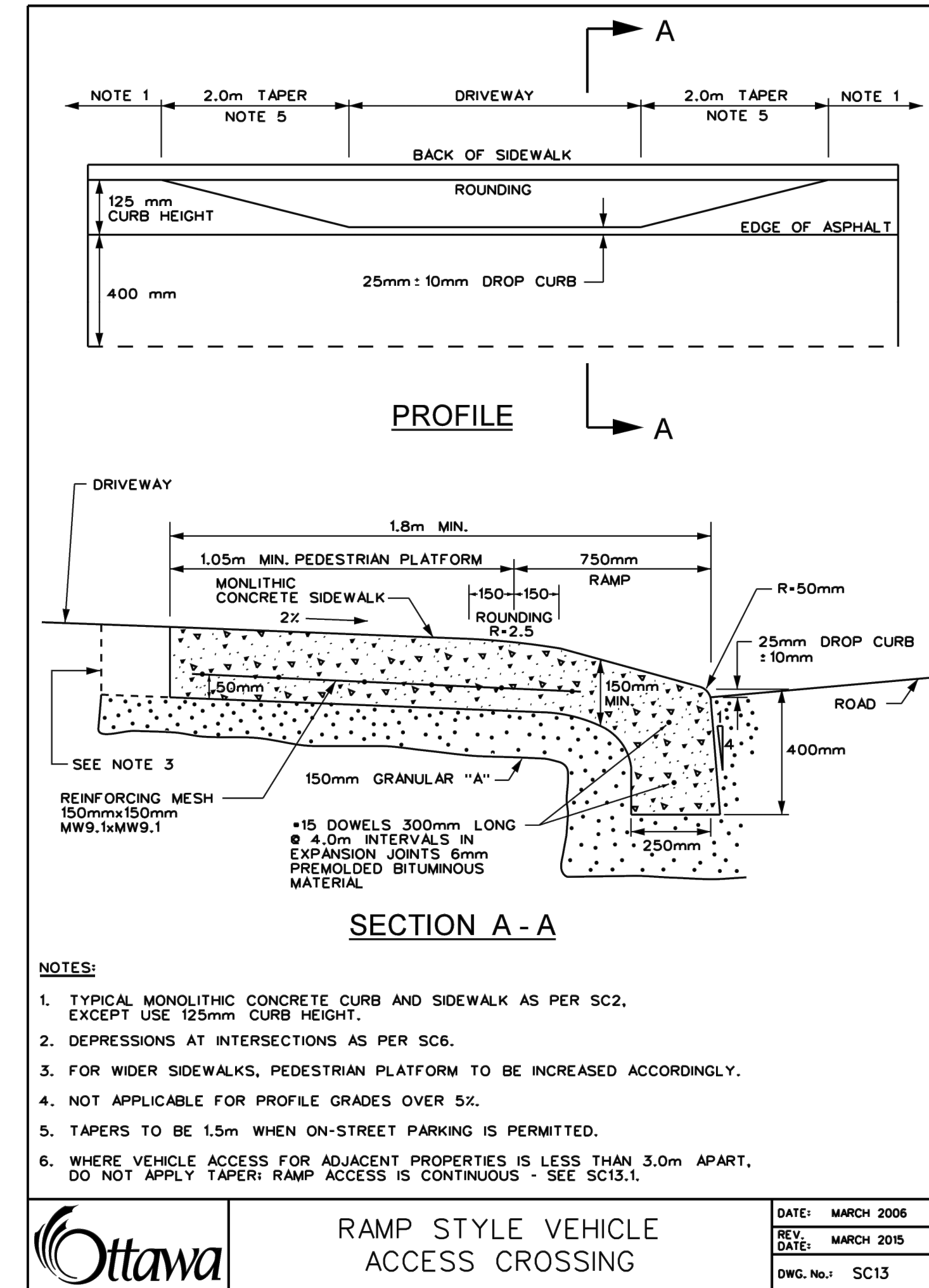
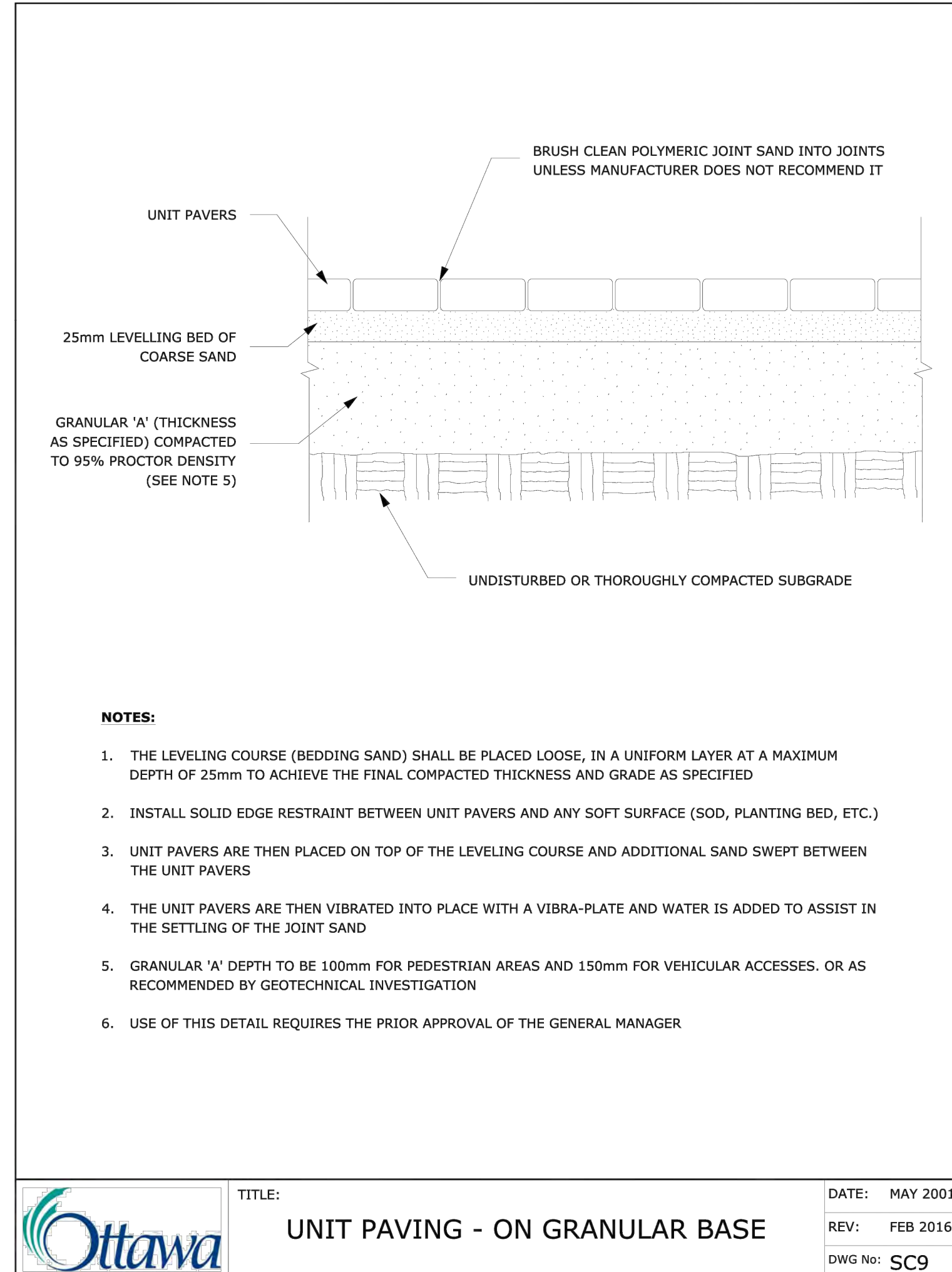
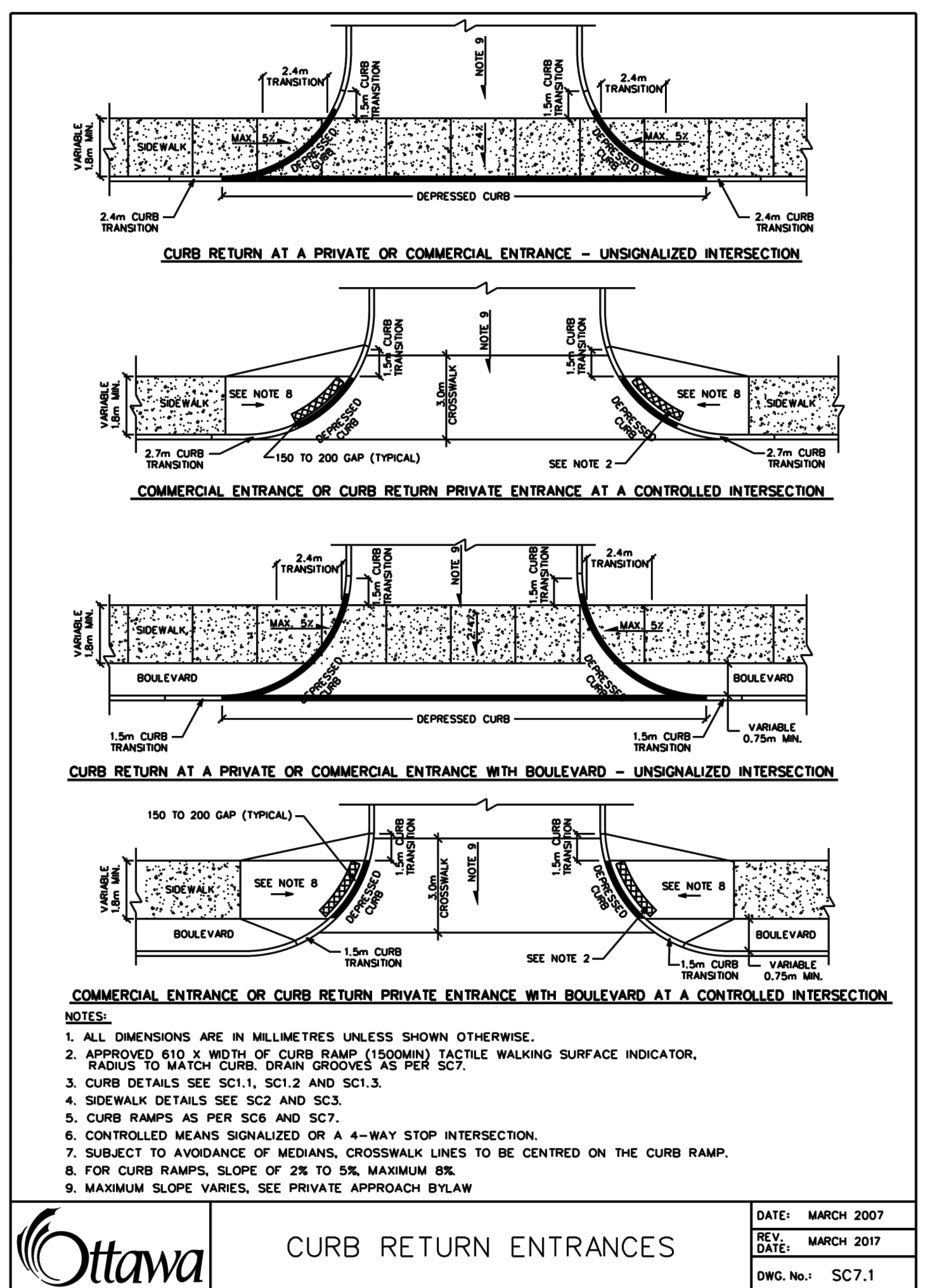
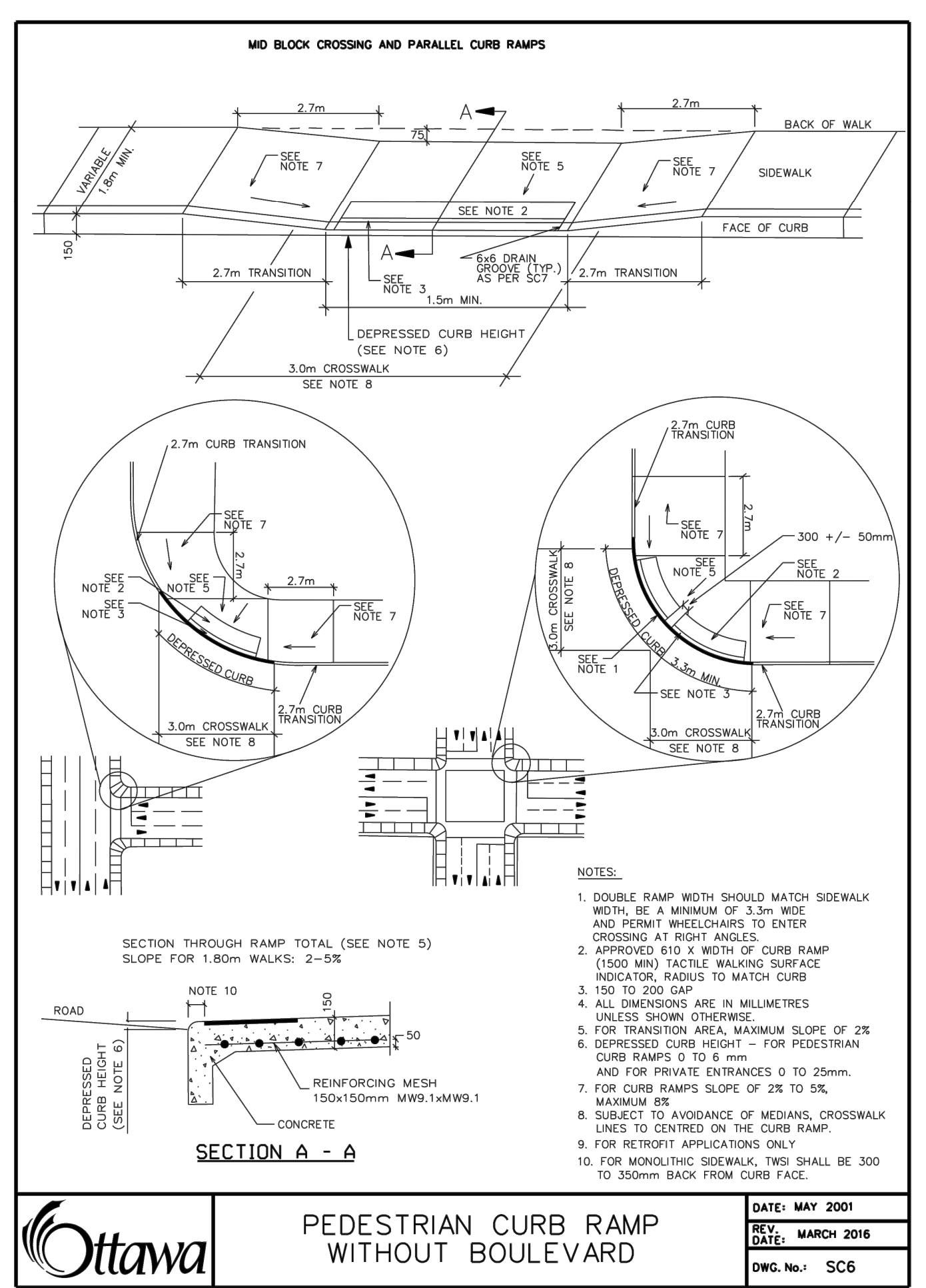
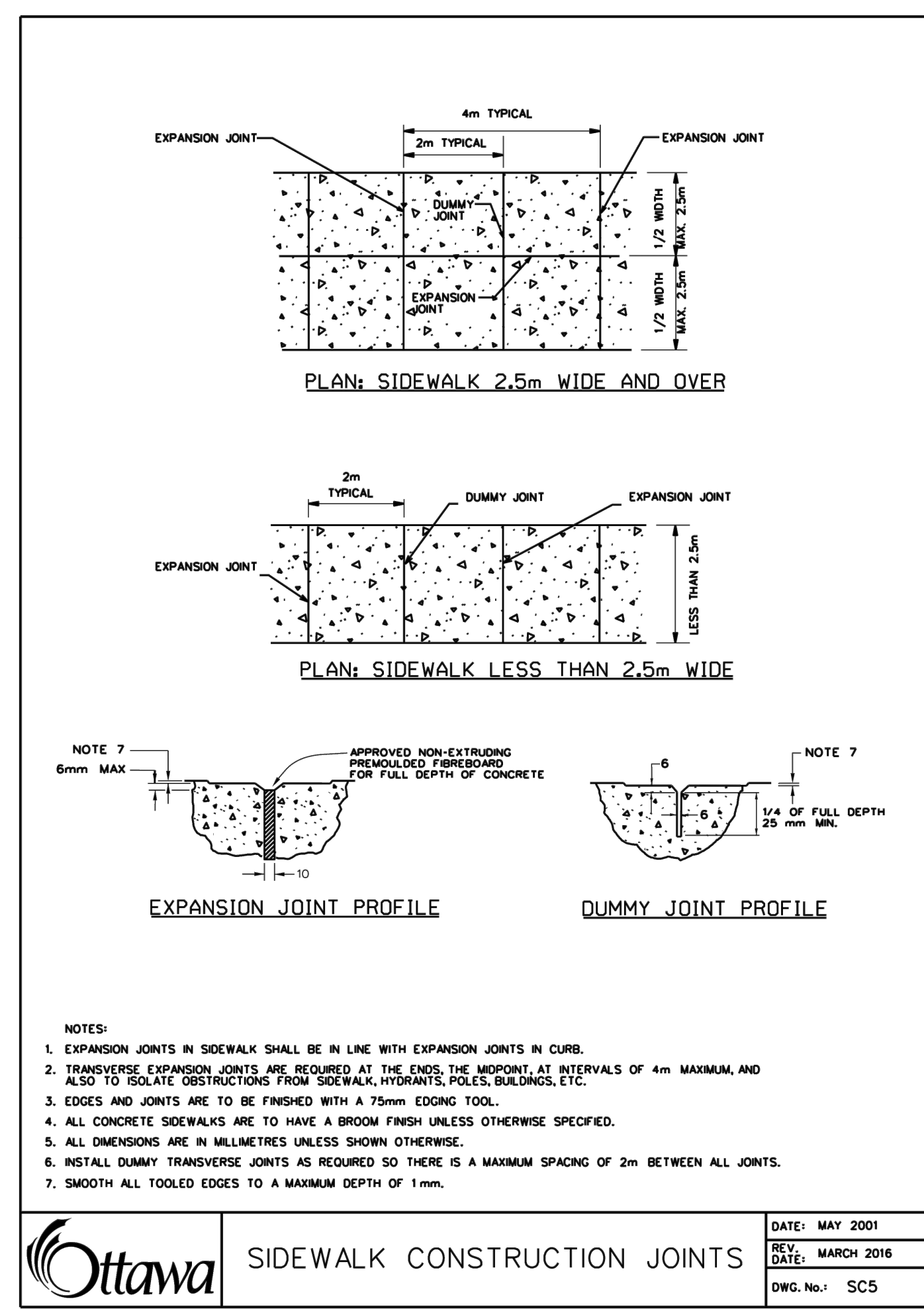
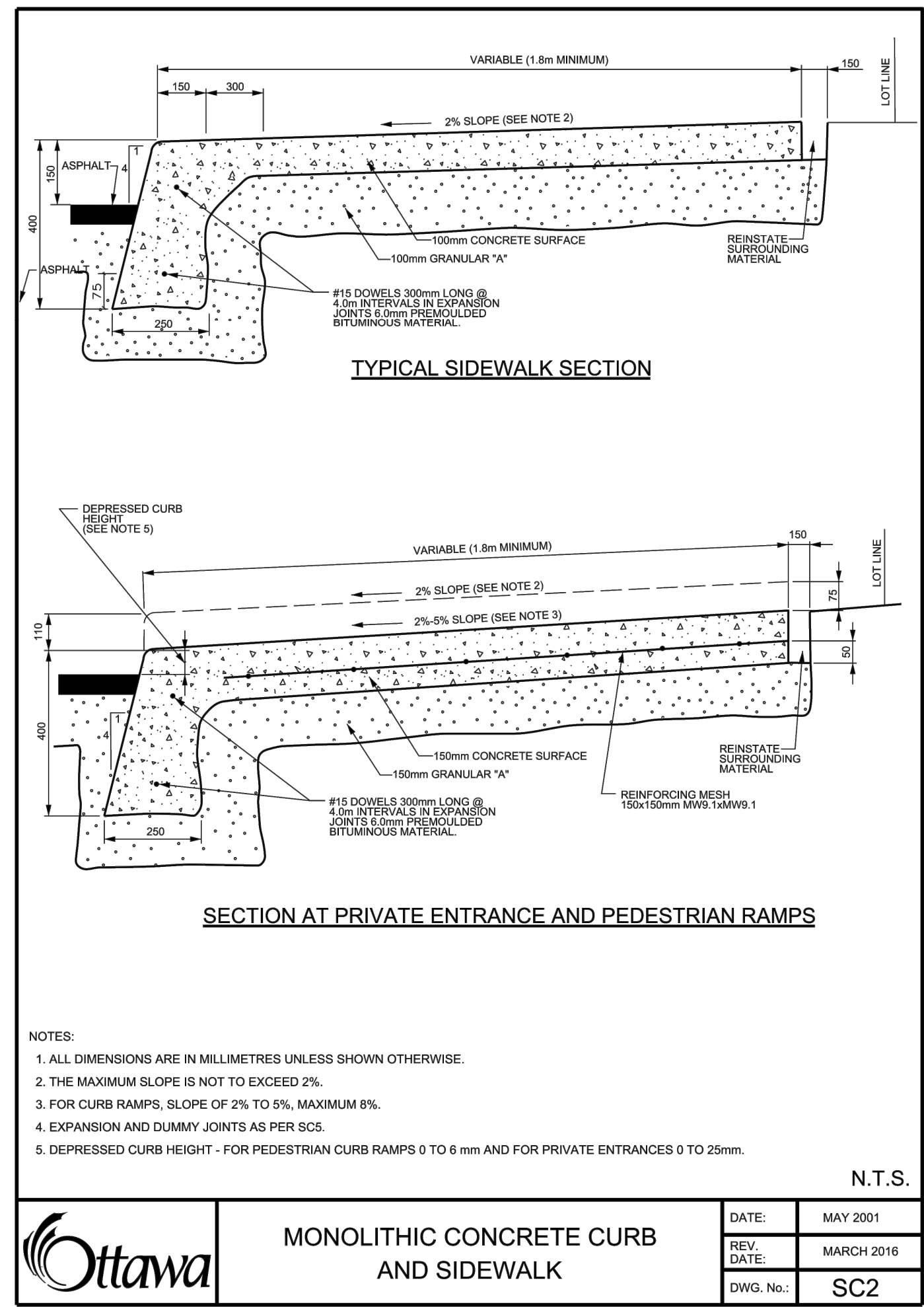
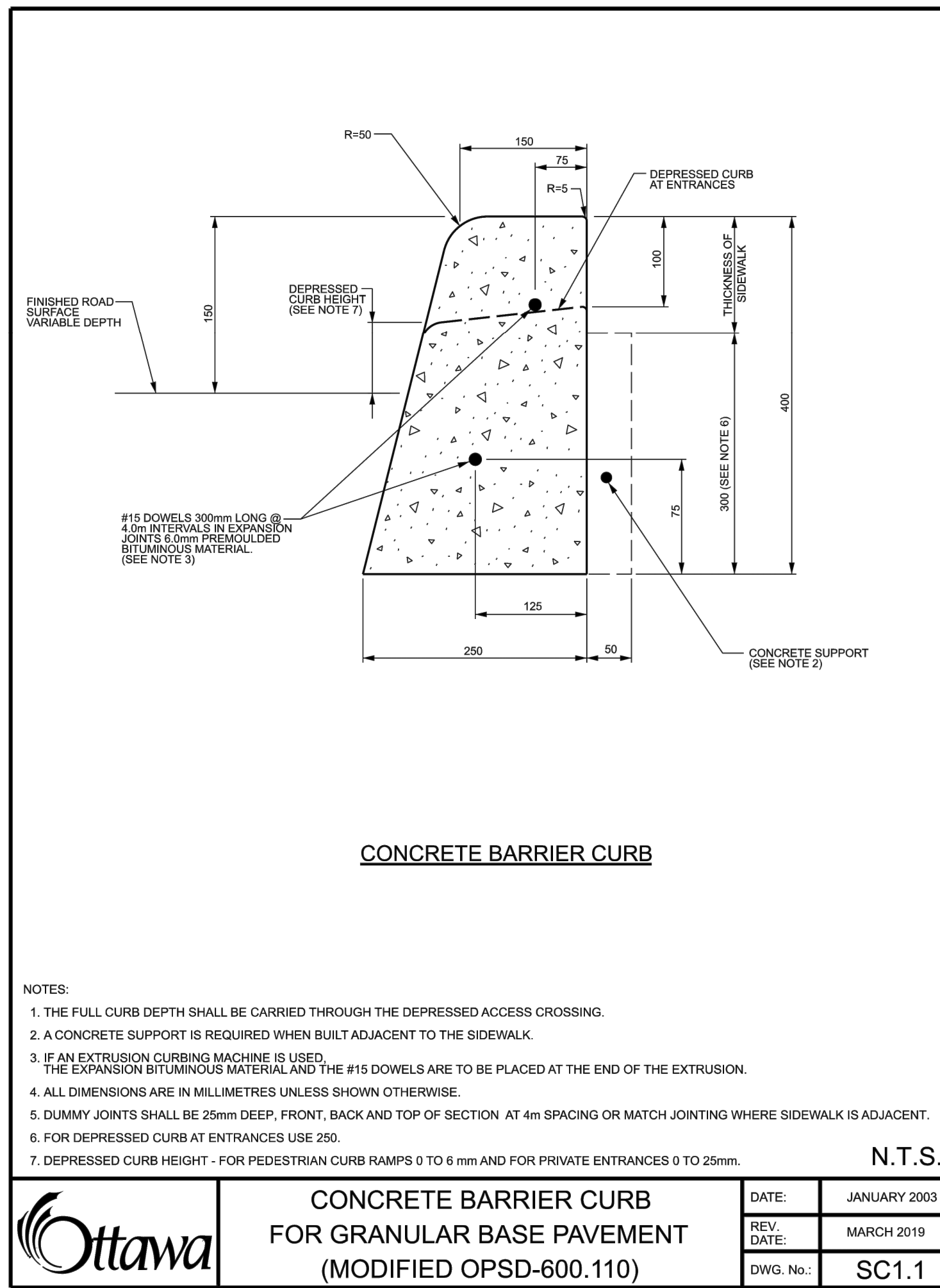
- NOTES:**
1. BACKWATER VALVE, CLEAN-OUTS AND ANY OTHER FITTINGS MUST BE INSTALLED A MINIMUM OF 300mm INSIDE OF THE BASEMENT FOOTING. THIS IS TO ENSURE THERE IS SUFFICIENT ROOM TO REPLACE THESE COMPONENTS IN THE FUTURE WITHOUT HAVING TO DAMAGE THE FOOTING WALL DURING THE PROCESS.
 2. JOINTS BETWEEN THE SLEEVE AND THE BACKWATER VALVE AND THE FLOOR SHALL BE WATERTIGHT.

FOUNDATION DRAIN BACKWATER VALVE INSTALLATION
DATE: DEC. 2002
REV. DATE: MARCH 2011
DWG. No.: S14

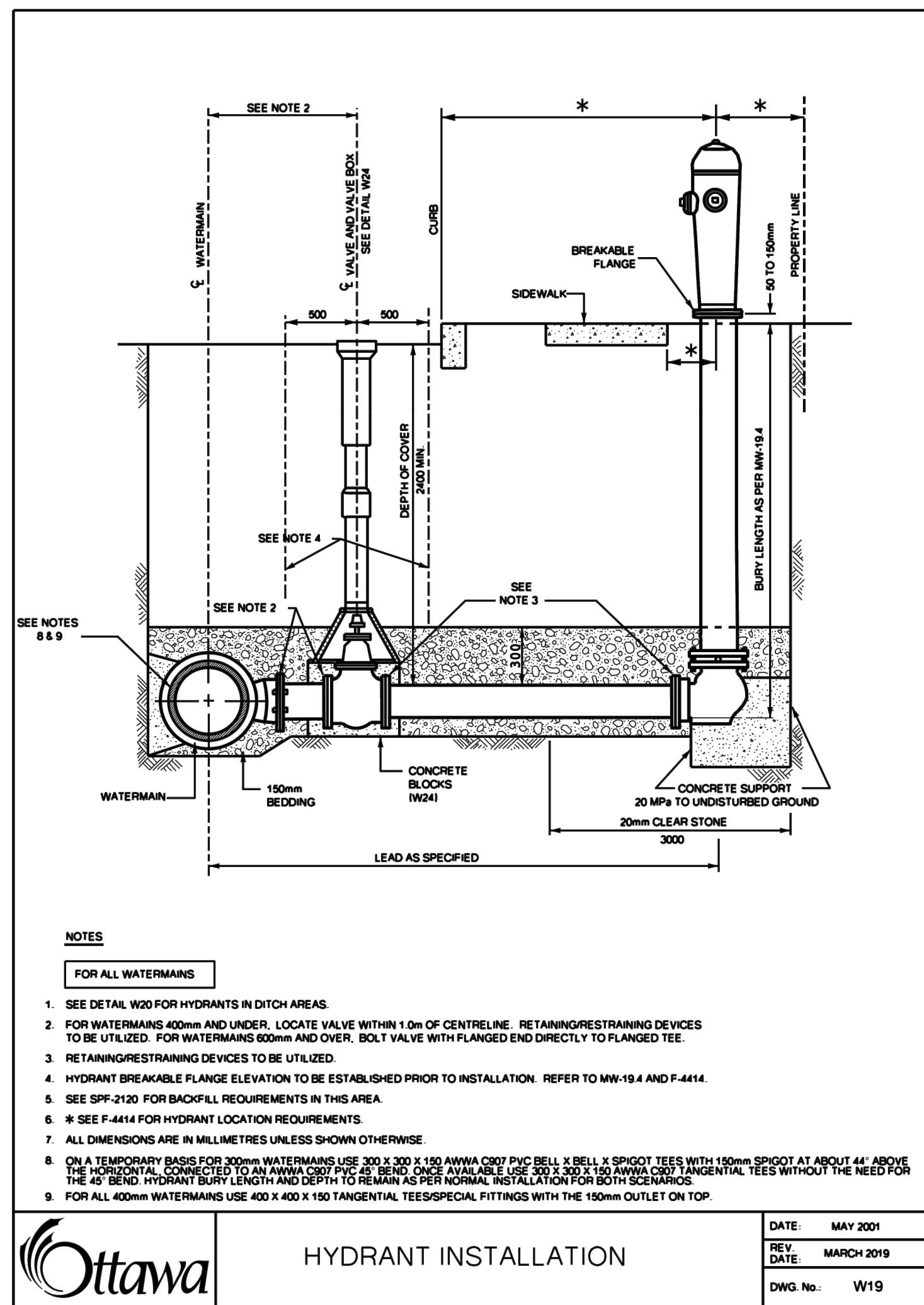


- NOTES:**
1. BACKWATER VALVE, CLEAN-OUTS AND ANY OTHER FITTINGS MUST BE INSTALLED A MINIMUM OF 300mm INSIDE OF THE BASEMENT FOOTING. THIS IS TO ENSURE THERE IS SUFFICIENT ROOM TO REPLACE THESE COMPONENTS IN THE FUTURE WITHOUT HAVING TO DAMAGE THE FOOTING WALL DURING THE PROCESS.
 2. JOINTS BETWEEN THE ACCESS BOX SECTIONS AND THE ACCESS BOX AND THE BACKWATER VALVE AND THE FLOOR SLAB SHALL BE SEALED.

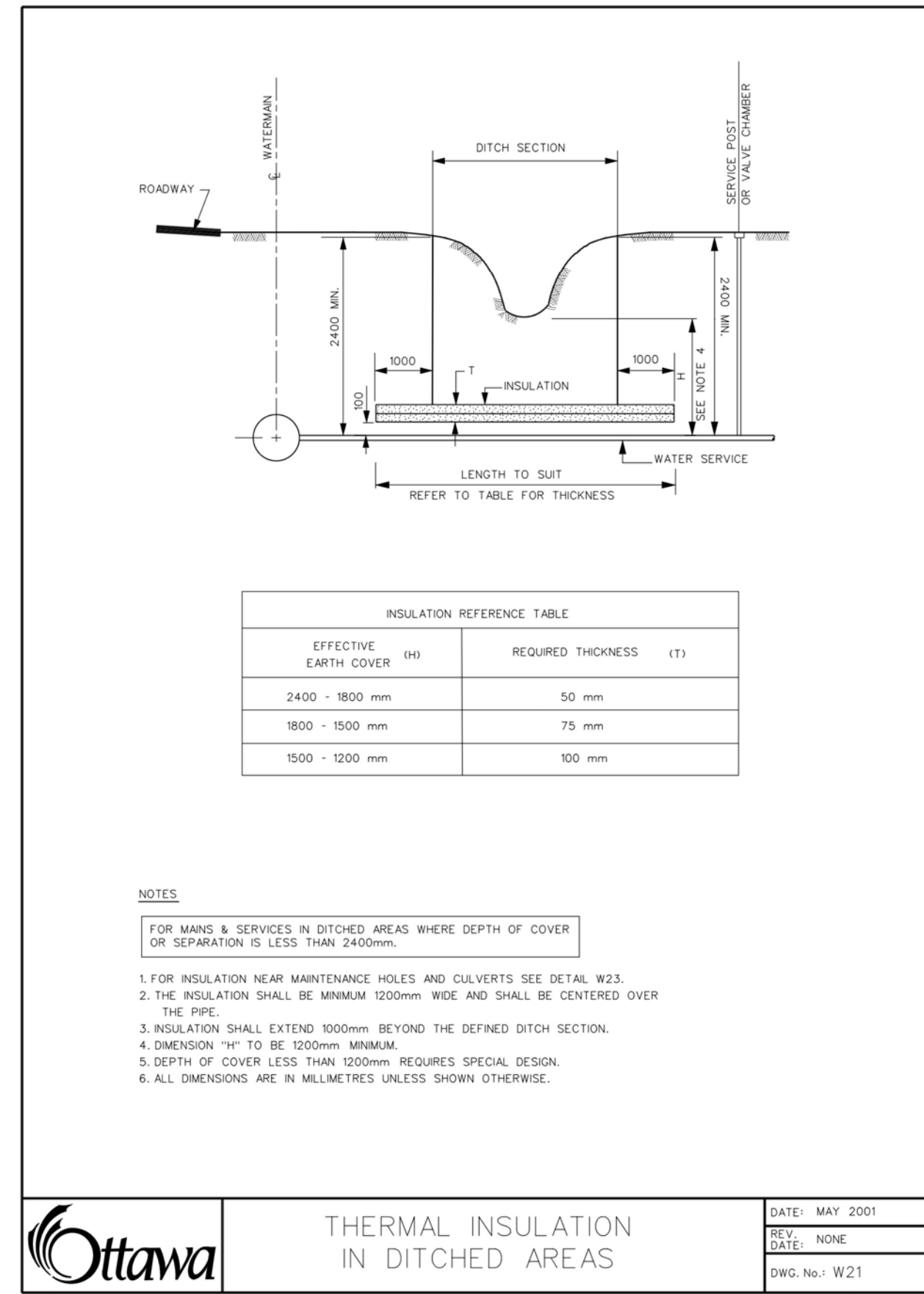
SANITARY BACKWATER VALVE INSTALLATION TYPE 1
DATE: MARCH 2010
REV. DATE: MARCH 2011
DWG. No.: S14.1



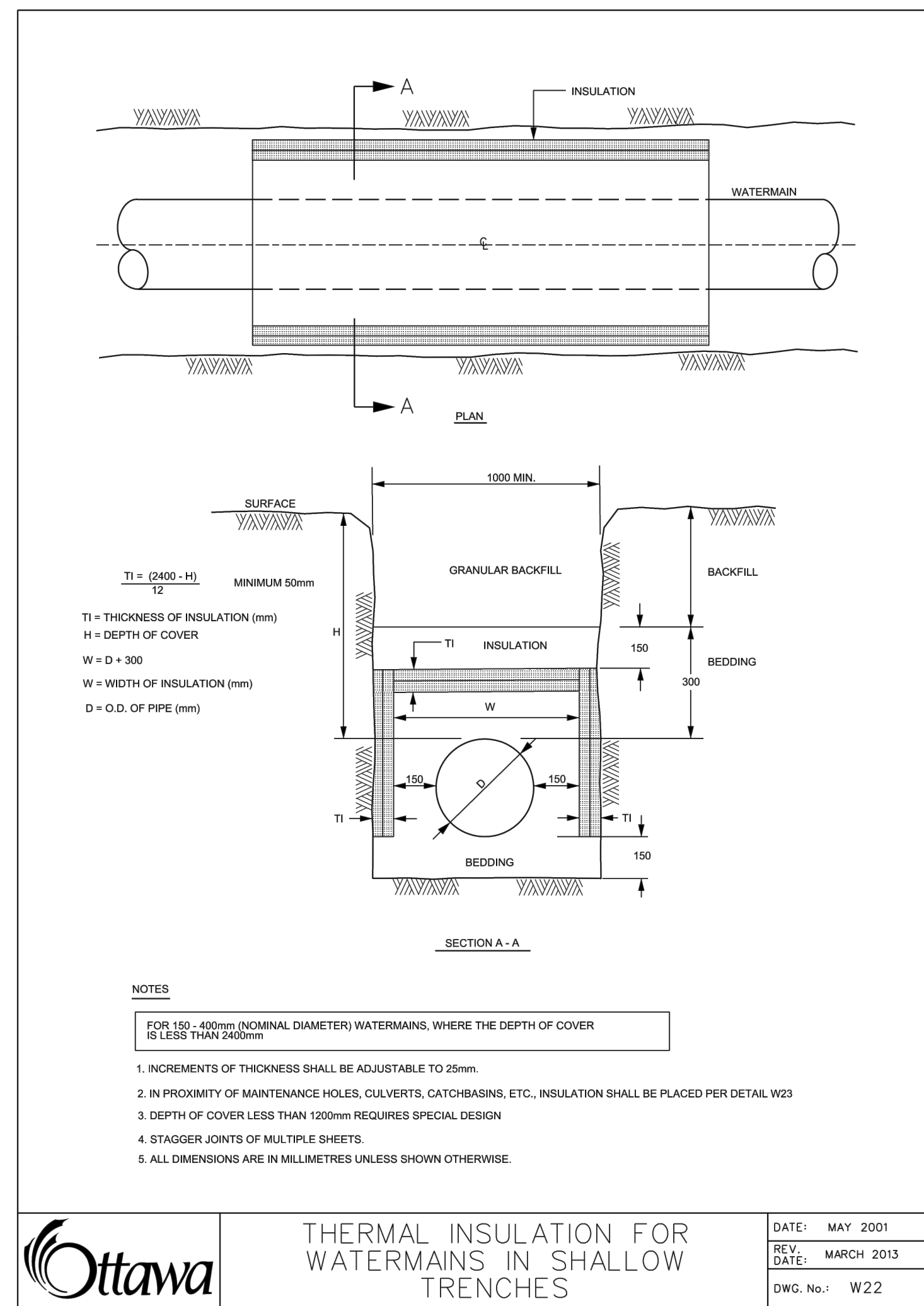
01 21/01/25 ISSUED FOR SITE PLAN CONTROL	
no. date	revision
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project title CLIFTON TOWNS 316-332 CLIFTON ROAD <small>CLIFTON ROAD, OTTAWA, ONTARIO</small>	
DETAILS PLAN	
drawn SCP	date JAN/21
scale 1:200	
project 120002	
drawing no. C009	
revision no.	



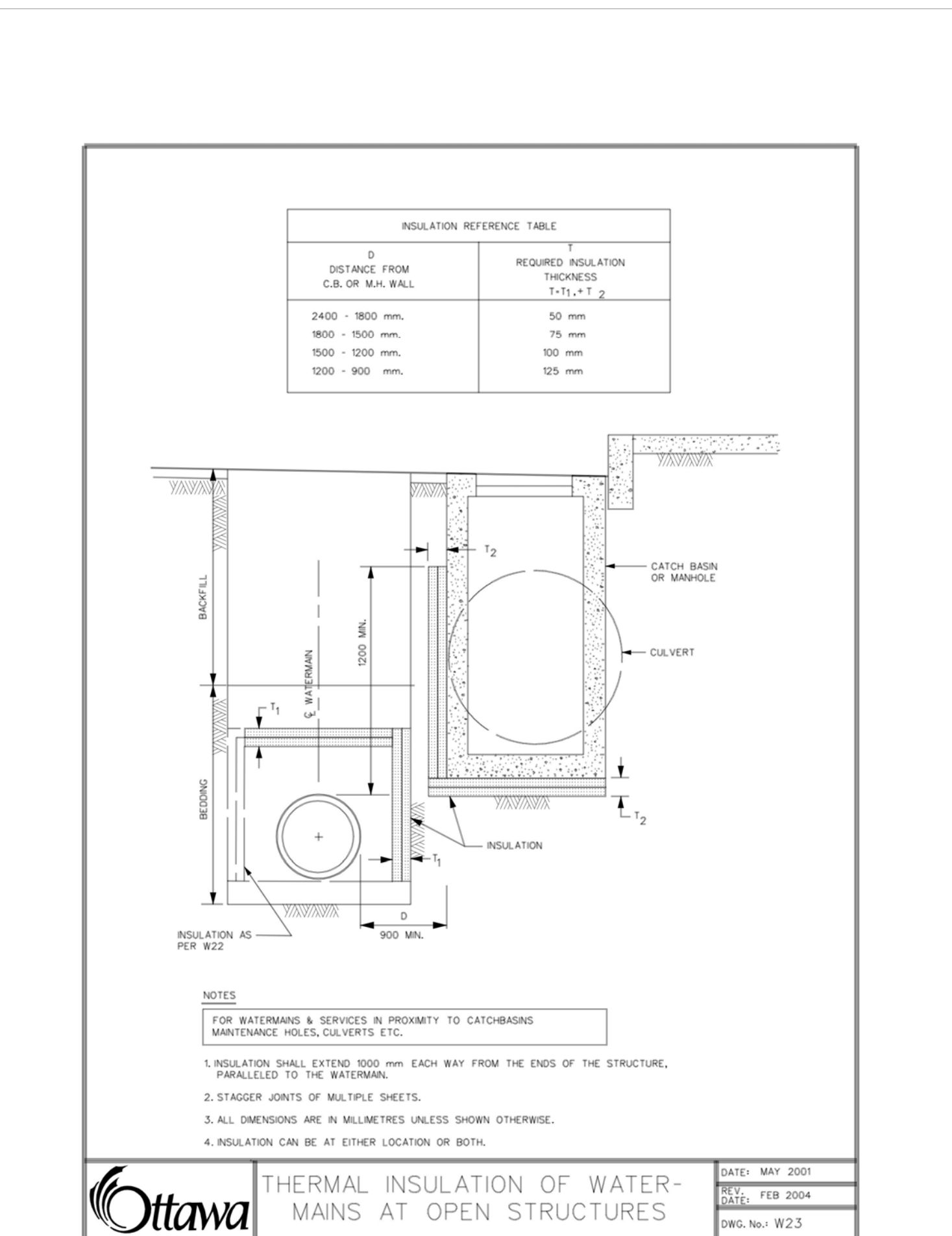
Ottawa	HYDRANT INSTALLATION	DATE: MAY 2001
		REV. DATE: MARCH 2019
		DWG. No.: W19



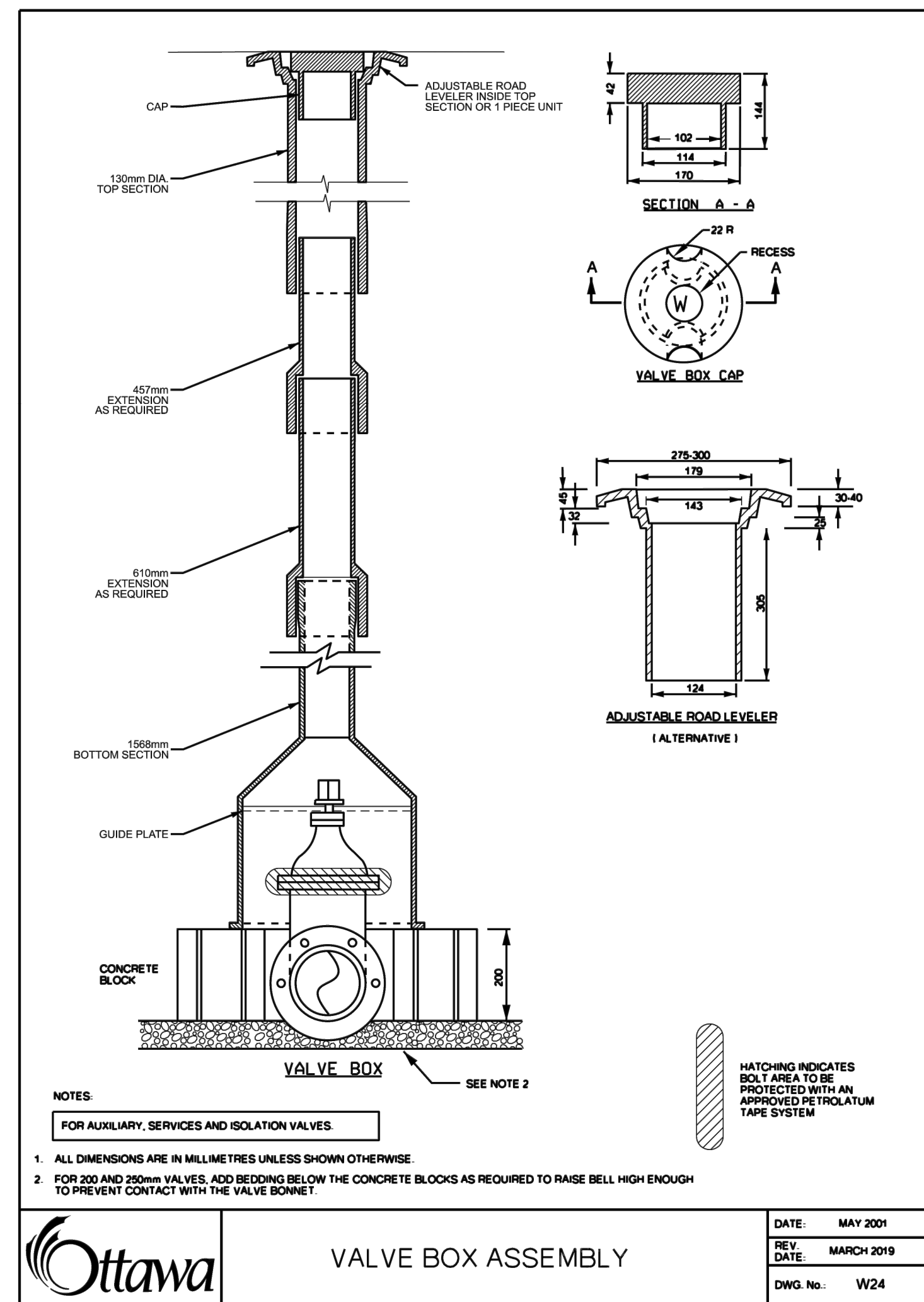
Ottawa	THERMAL INSULATION IN DITCHED AREAS	DATE: MAY 2001
		REV. DATE: NONE
		DWG. No.: W21



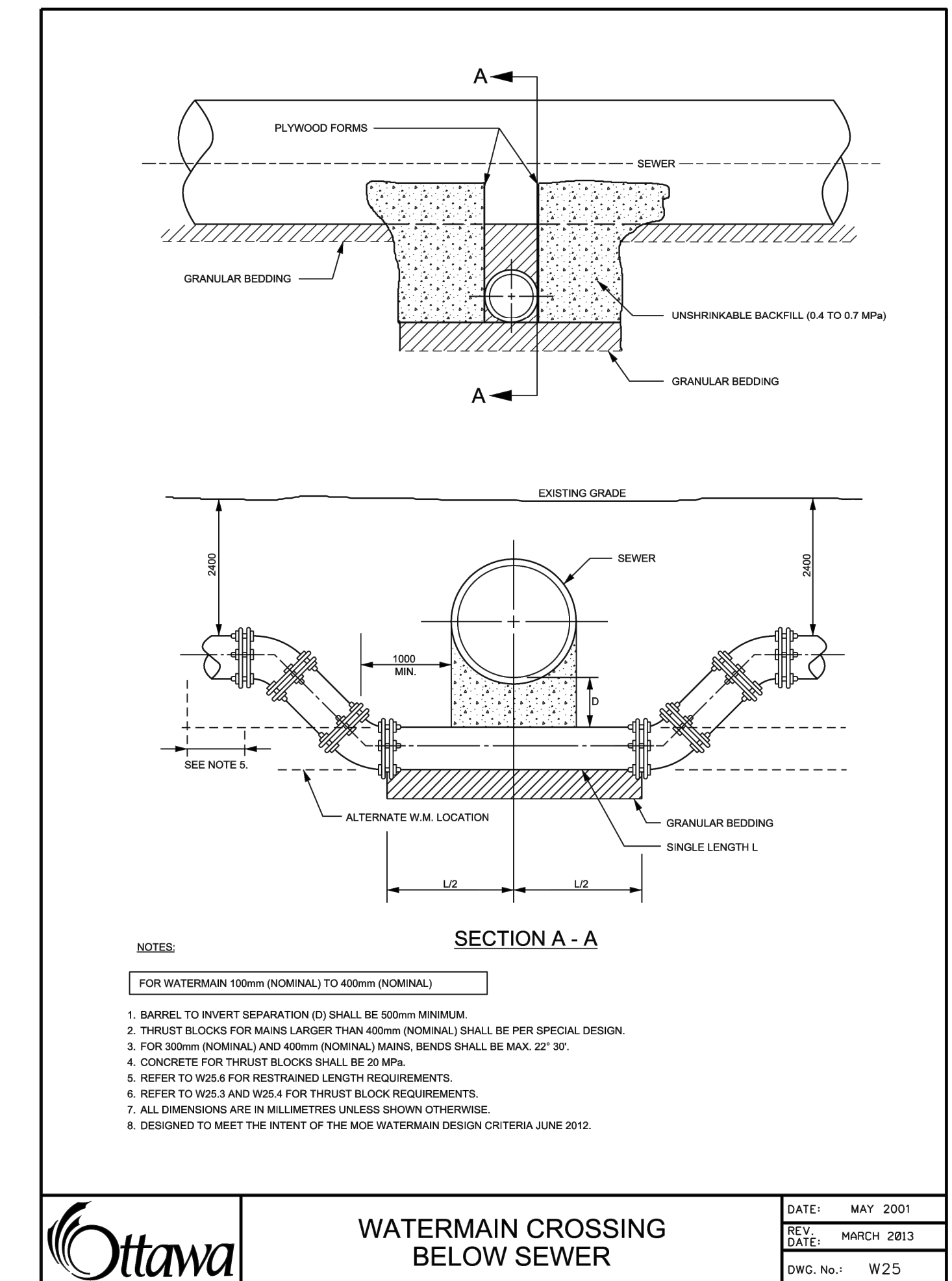
Ottawa	THERMAL INSULATION FOR WATERMANS IN SHALLOW TRENCHES	DATE: MAY 2001
		REV. DATE: MARCH 2013
		DWG. No.: W22



Ottawa	THERMAL INSULATION OF WATERMANS AT OPEN STRUCTURES	DATE: MAY 2001
		REV. DATE: FEB 2004
		DWG. No.: W23



Ottawa	VALVE BOX ASSEMBLY	DATE: MAY 2001
		REV. DATE: MARCH 2019
		DWG. No.: W24



Ottawa	WATERMAIN CROSSING BELOW SEWER	DATE: MAY 2001
		REV. DATE: MARCH 2013
		DWG. No.: W25

01	21/01/25	ISSUED FOR SITE PLAN CONTROL
rev. date	revision	

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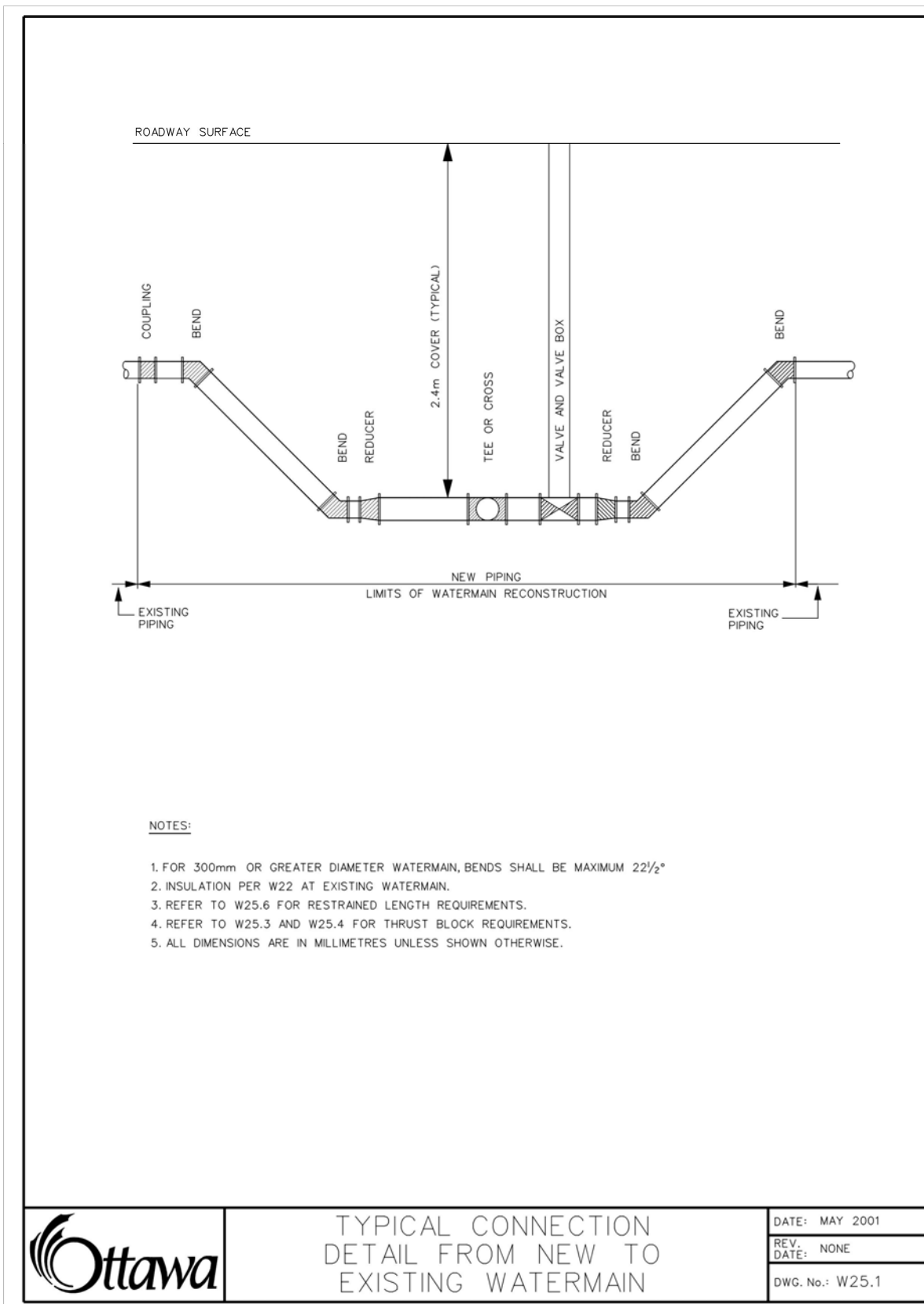


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project title
CLIFTON TOWNS
 316-332 CLIFTON ROAD
CLIFTON ROAD, OTTAWA, ONTARIO

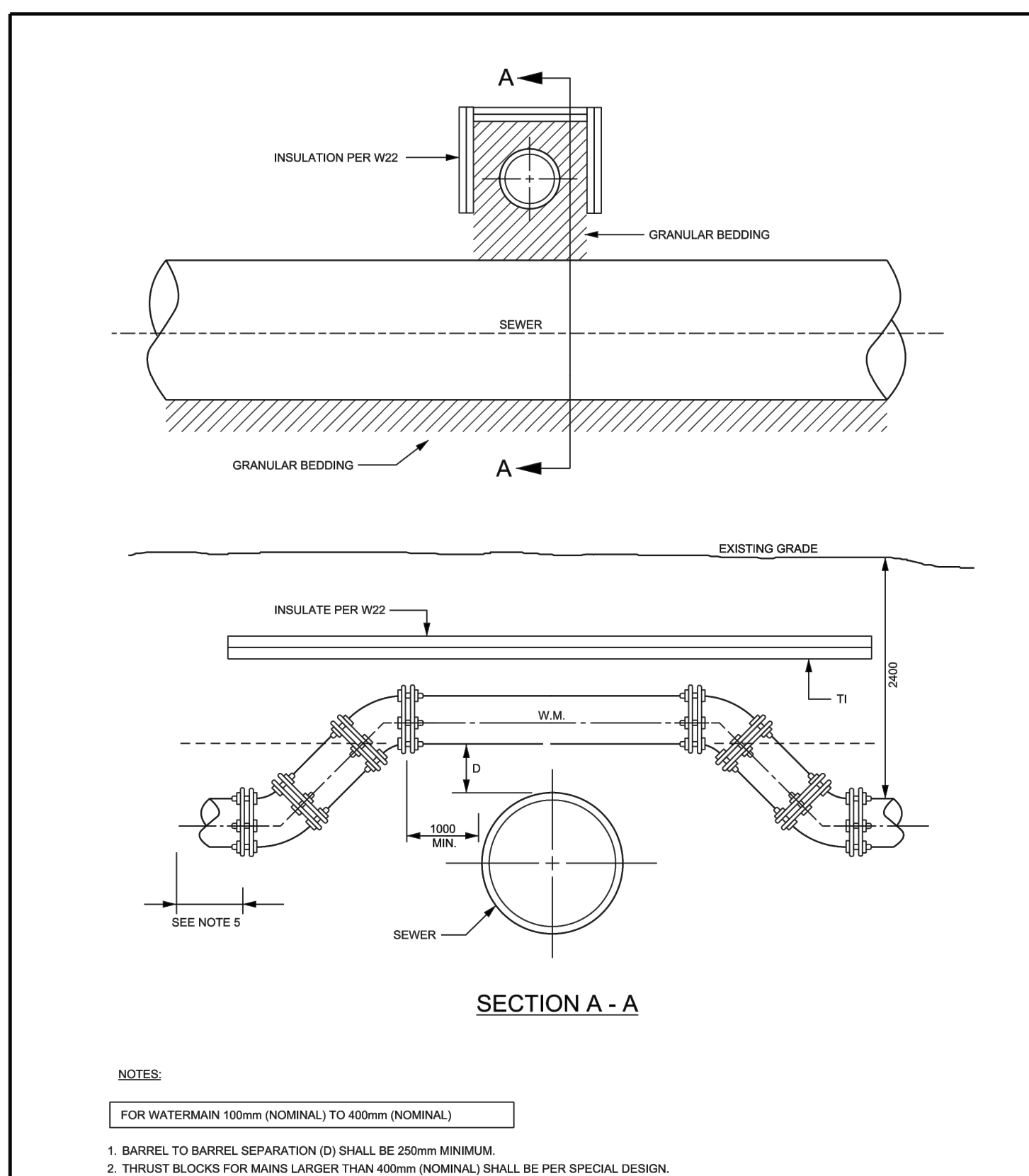
drawing title
DETAILS PLAN

drawn SCP	date JAN/21	scale 1:200
project W2000	drawing no. C010	revision no.



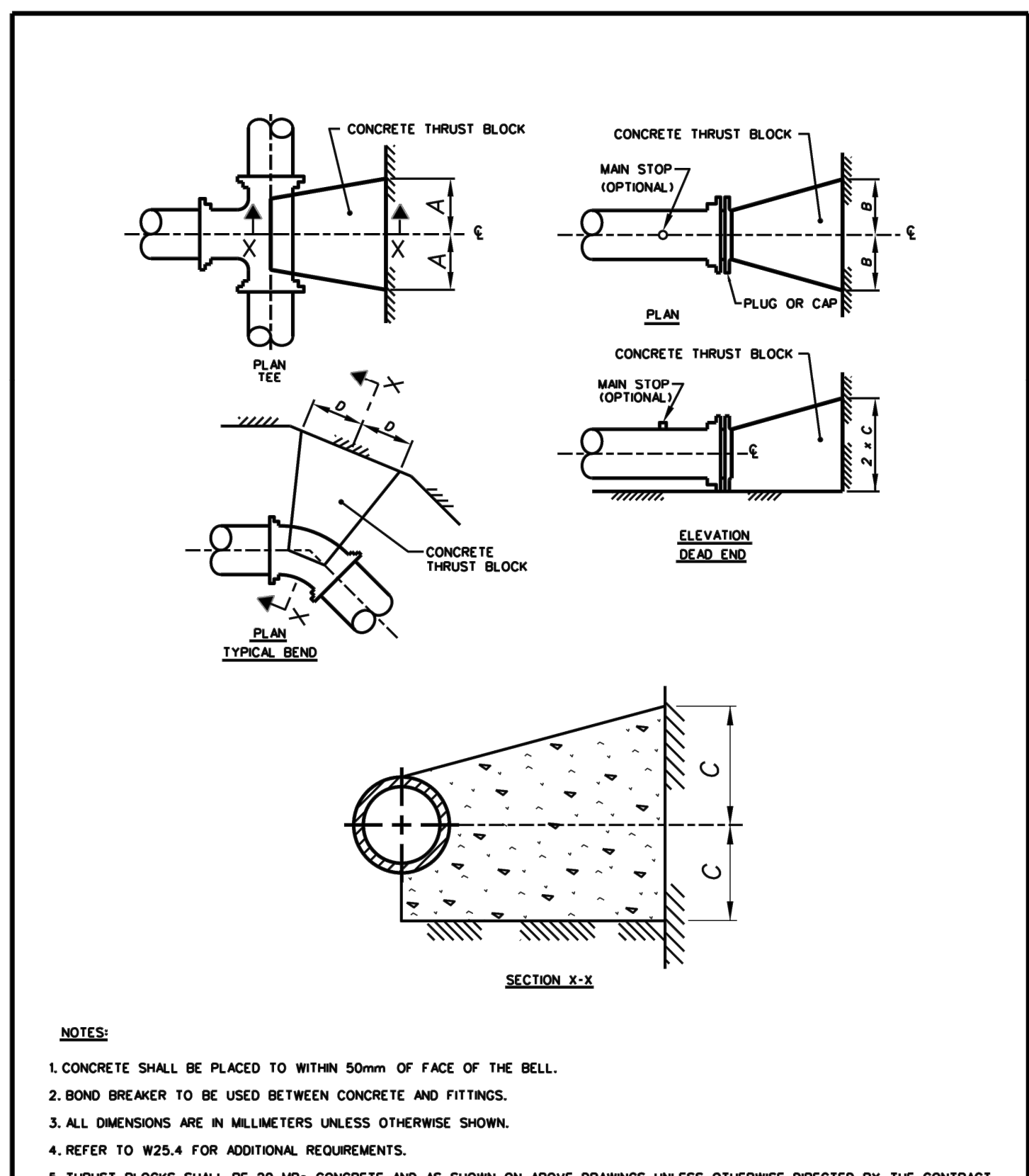
TYPICAL CONNECTION DETAIL FROM NEW TO EXISTING WATERMAIN

DATE: MAY 2001
REV. DATE: NONE
DWG. No.: W25.1



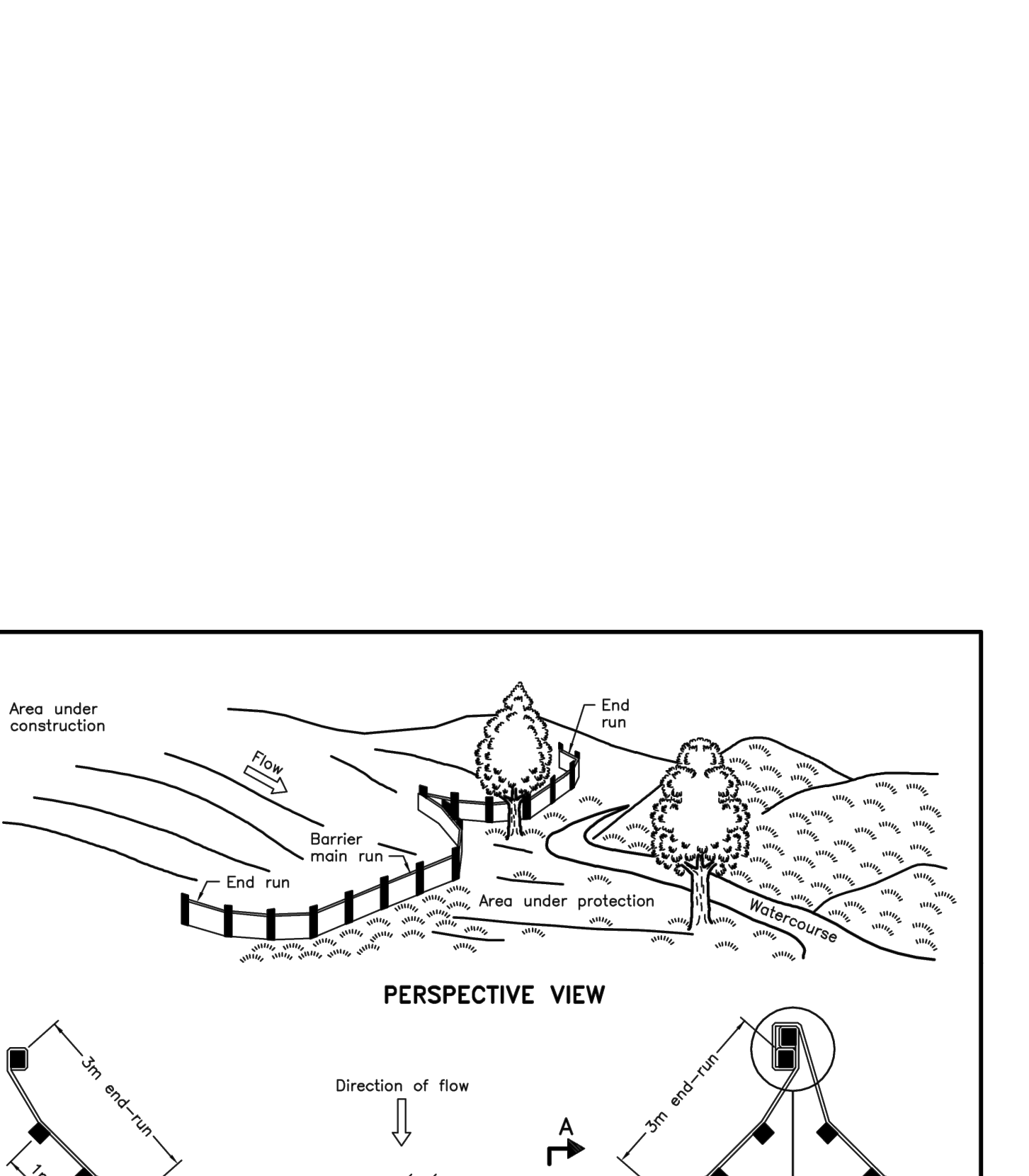
WATERMAIN CROSSING OVER SEWER

DATE: MAY 2001
REV. DATE: MARCH 2013
DWG. No.: W25.2



CONCRETE THRUST BLOCKS FOR PVC AND DI PIPE 400mm AND UNDER

DATE: MAY 2001
REV. DATE: MARCH 2016
DWG. No.: W25.3



LIGHT-DUTY SILT FENCE BARRIER

ONTARIO PROVINCIAL STANDARD DRAWING
Nov 2015 Rev 2
OPSD 219.110

1. SOIL DESCRIPTION: VERY FINE SANDS, SANDY CLAYS, CLAYS.
SOILS WITH TYPICAL BEARING STRENGTH OF 100 TO 199 KPa

PIPE DIAMETER	DIMENSION NOTED ON W25.3			
	A	B	C	D
102	250	250	200	200
152	400	400	250	300
203	550	550	300	450
254	650	650	400	500
305	800	800	450	650
406	1050	1050	600	850

2. SOIL DESCRIPTION: SILTY SAND GRAVELS OR CLAYEY SAND GRAVEL MIXTURES, MODERATE AMOUNT OF FINES.
SOILS WITH TYPICAL BEARING STRENGTH OF 200 TO 299 KPa

PIPE DIAMETER	DIMENSION NOTED ON W25.3			
	A	B	C	D
102	200	200	150	150
152	250	250	200	200
203	350	350	250	270
254	450	450	300	350
305	500	500	350	400
406	750	750	400	600

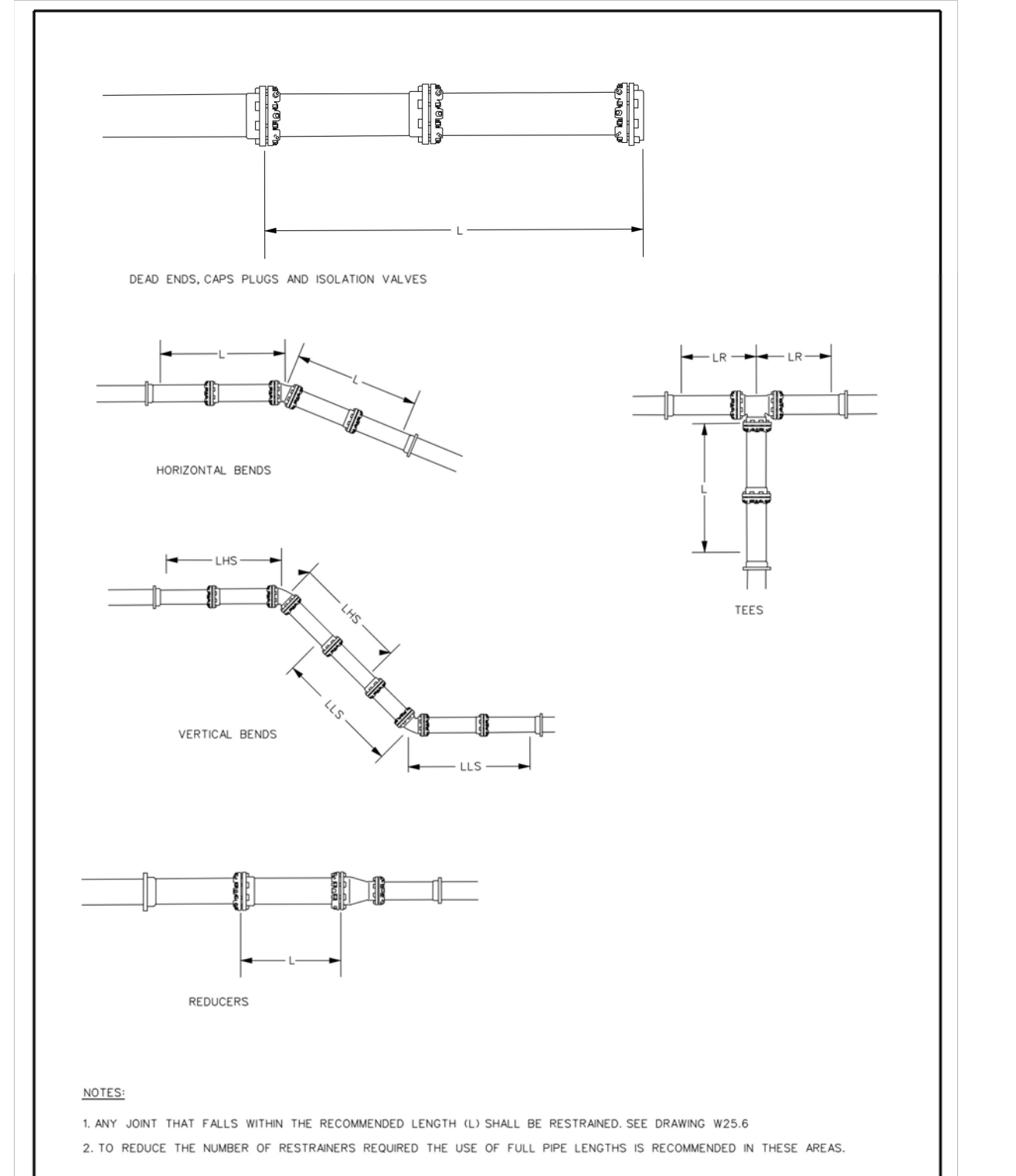
3. SOIL DESCRIPTION: SANDS, GRAVELS AND GRAVEL-SAND MIXTURES, LITTLE OR NO FINES.
SOILS WITH TYPICAL BEARING STRENGTH OF 300 KPa AND OVER

PIPE DIAMETER	DIMENSION NOTED ON W25.3			
	A	B	C	D
102	150	150	150	150
152	200	200	200	200
203	300	300	200	230
254	400	400	250	270
305	450	450	300	300
406	650	650	350	450

NOTES:
1. THE ABOVE THRUST BLOCK DIMENSIONS MEET OR EXCEED THE WATERMAIN DESIGN CRITERIA FOR FUTURE ALTERATIONS AUTHORIZED UNDER A DRINKING WATER WORKS PERMIT.
2. THE ASSUMPTIONS MADE FOR THE ABOVE CALCULATIONS ARE AS FOLLOWS:
a) MAXIMUM OPERATING PRESSURE OF 100 psi
b) MAXIMUM SURGE PRESSURE WITH A FLOW VELOCITY CHANGE OF 0.6 m/s OF 115 psi (115 psi FOR CLASS 52 DI AND FOR PVC MAX. SURGE IS 35 psi)
3. THE TABLES APPLY TO BOTH DUCTILE IRON AND PVC. WHERE ONE LENGTH EXCEEDED THE OTHER THE LONGER LENGTH WAS USED.
4. DIMENSIONS MAY BE ADJUSTED SO LONG AS THE BEARING SURFACE AREA OF THE THRUST BLOCK IS NOT REDUCED.
5. TO BE USED IN CONJUNCTION WITH W25.3.

THRUST BLOCK DIMENSION TABLES FOR PVC AND DI PIPE 400mm AND UNDER

DATE: MAY 2001
REV. DATE: MARCH 2011
DWG. No.: W25.4



RESTRAINING AND RETAINING RINGS FOR PVC AND DI PIPE 400mm AND UNDER

DATE: MAY 2001
REV. DATE: NONE
DWG. No.: W25.5

TABLE OF RESTRAINED LENGTHS FOR DI AND PVC WATERMAIN PIPE IN STANDARD GRANULAR 'A' EMBEDMENT IN SOILS OF BEARING CAPACITY OF 100 KPa AND OVER

REDUCERS	LARGER DIAMETER SIDE (TO BE RESTRAINED)					
	100mm	150mm	200mm	250mm	300mm	400mm
100mm	N/A	3	6	8	10	14
150mm	N/A	N/A	4	6	9	13
200mm	N/A	N/A	N/A	3	6	11
250mm	N/A	N/A	N/A	N/A	4	9
300mm	N/A	N/A	N/A	N/A	N/A	7
400mm	N/A	N/A	N/A	N/A	N/A	N/A

PIPE DIAMETER
100mm 150mm 200mm 250mm 300mm 400mm

DEAD ENDS, CAPS, PLUGS, VALVES	BEFORE CAPS AND EITHER SIDE OF VALVES - L					
	5	6	9	10	12	16
100mm						
150mm						
200mm						
250mm						
300mm						
400mm						

VERTICAL BENDS	LENGTH HIGH SIDE - LHS					
	3	4	5	6	7	9
100mm						
150mm						
200mm						
250mm						
300mm						
400mm						

TEES	LENGTH ALONG THE BRANCH - L					
	1	1	1	1	1	1
100mm						
150mm						
200mm						
250mm						
300mm						
400mm						

HORIZONTAL BENDS	11.25, 22.5, AND 45 DEGREE BENDS					
	1	1.5	1.5	2	2	2.5
100mm						
150mm						
200mm						
250mm						
300mm						
400mm						

NOTES:
1. THE ABOVE RESTRAINED LENGTHS MEET OR EXCEED THE WATERMAIN DESIGN CRITERIA FOR FUTURE ALTERATIONS AUTHORIZED UNDER A DRINKING WATER WORKS PERMIT.
2. THE ASSUMPTIONS MADE FOR THE ABOVE CALCULATIONS ARE AS FOLLOWS:
a) MAXIMUM OPERATING PRESSURE OF 100 psi
b) MAXIMUM SURGE PRESSURE WITH A FLOW VELOCITY CHANGE OF 0.6 m/s OF 115 psi (115 psi FOR CLASS 52 DI AND FOR PVC MAX. SURGE IS 35 psi)
3. FOR SOFTWARE CALCULATIONS A TEST PRESSURE OF 150 psi AND A SAFETY FACTOR OF 1.5 WAS USED WHICH RESULTS IN 225 psi MAXIMUM PRESSURE.
4. TYPE 5 TRENCH BEDDING.
5. DEPTH TO BURY 2.4 METRES EXCEPT FOR VERTICAL BENDS WHERE THE HIGH SIDE IS AT 1.8 METRES.
6. EMBEDMENT MATERIAL GRANULAR 'A' WITH CHARACTERISTICS OF ASTM D2487 GP.
7. OP SOILS ARE DESCRIBED AS POORLY GRADED GRAVEL AND SAND-GRAVEL MIXES WITH LITTLE OR NO FINES.
8. (L) MUST BE OF SOLID PIPE WITHOUT JOINTS, FITTINGS, ETC.
9. THE TABLES APPLY TO BOTH DUCTILE IRON AND PVC. WHERE ONE LENGTH EXCEEDED THE OTHER THE LONGER LENGTH WAS USED.
10. RESTRAINED LENGTHS ARE IN METRES.

TABLES OF RESTRAINED LENGTHS FOR PVC AND DI PIPE 400mm AND UNDER

DATE: MAY 2001
REV. DATE: MARCH 2011
DWG. No.: W25.6

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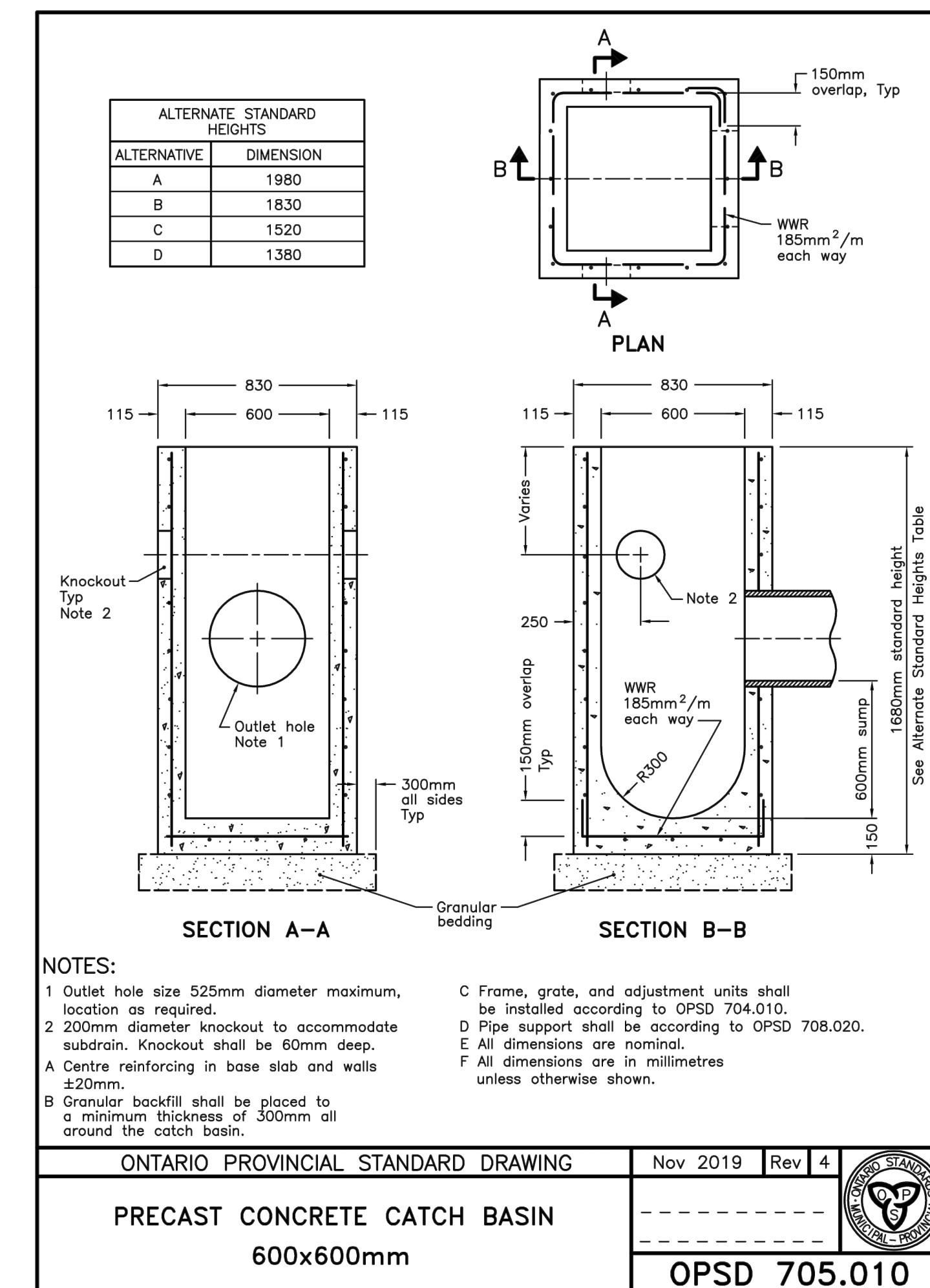
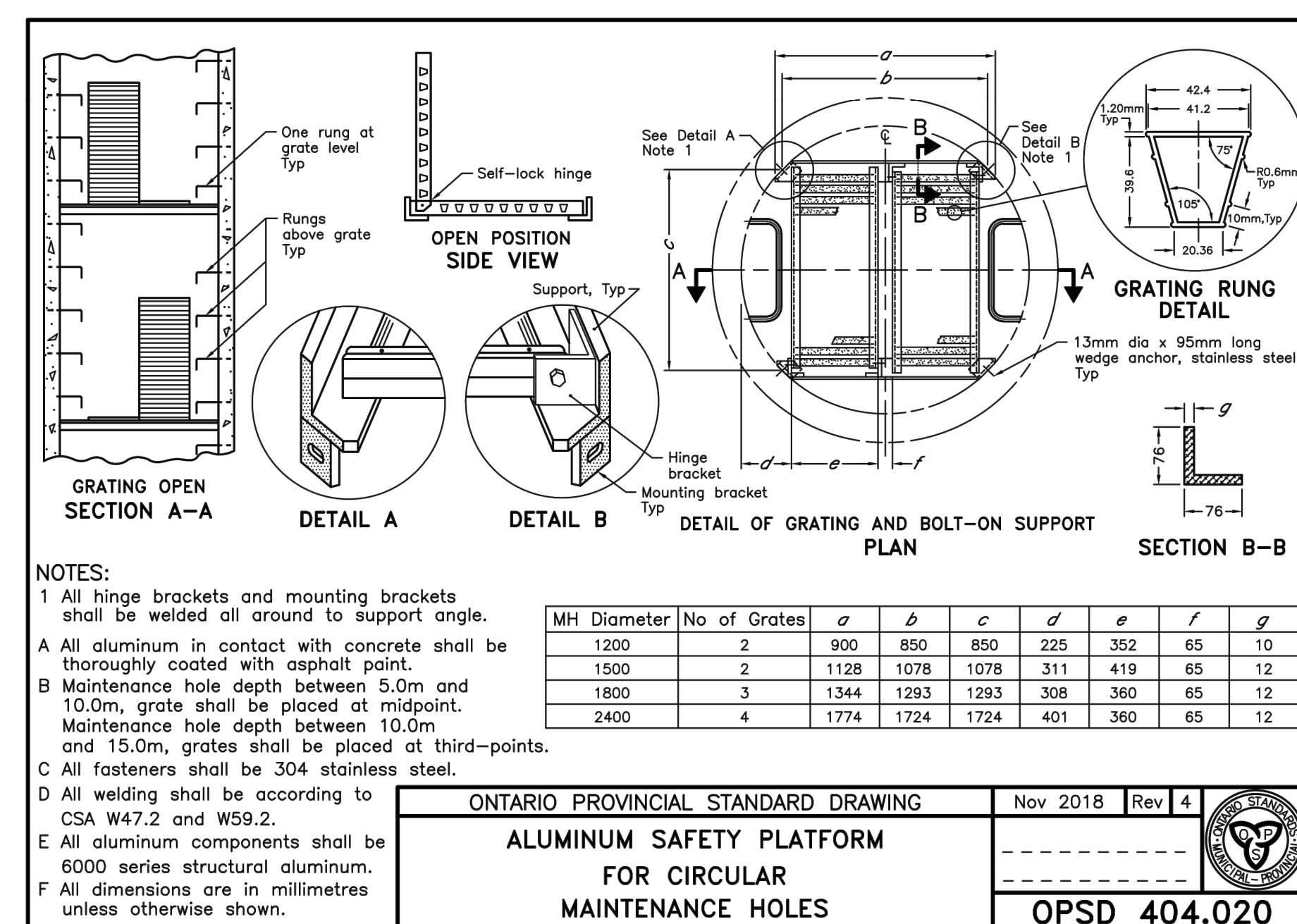
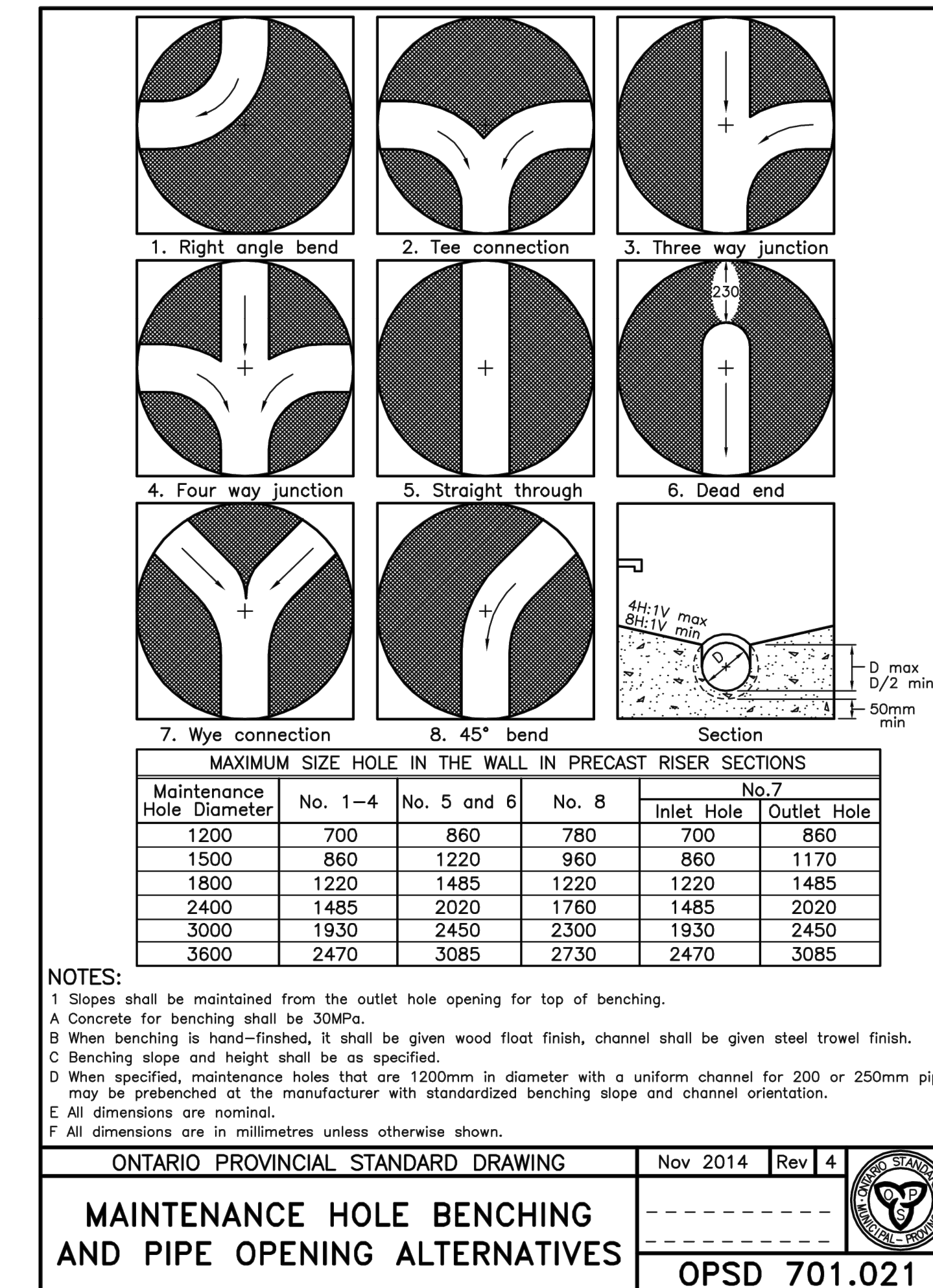
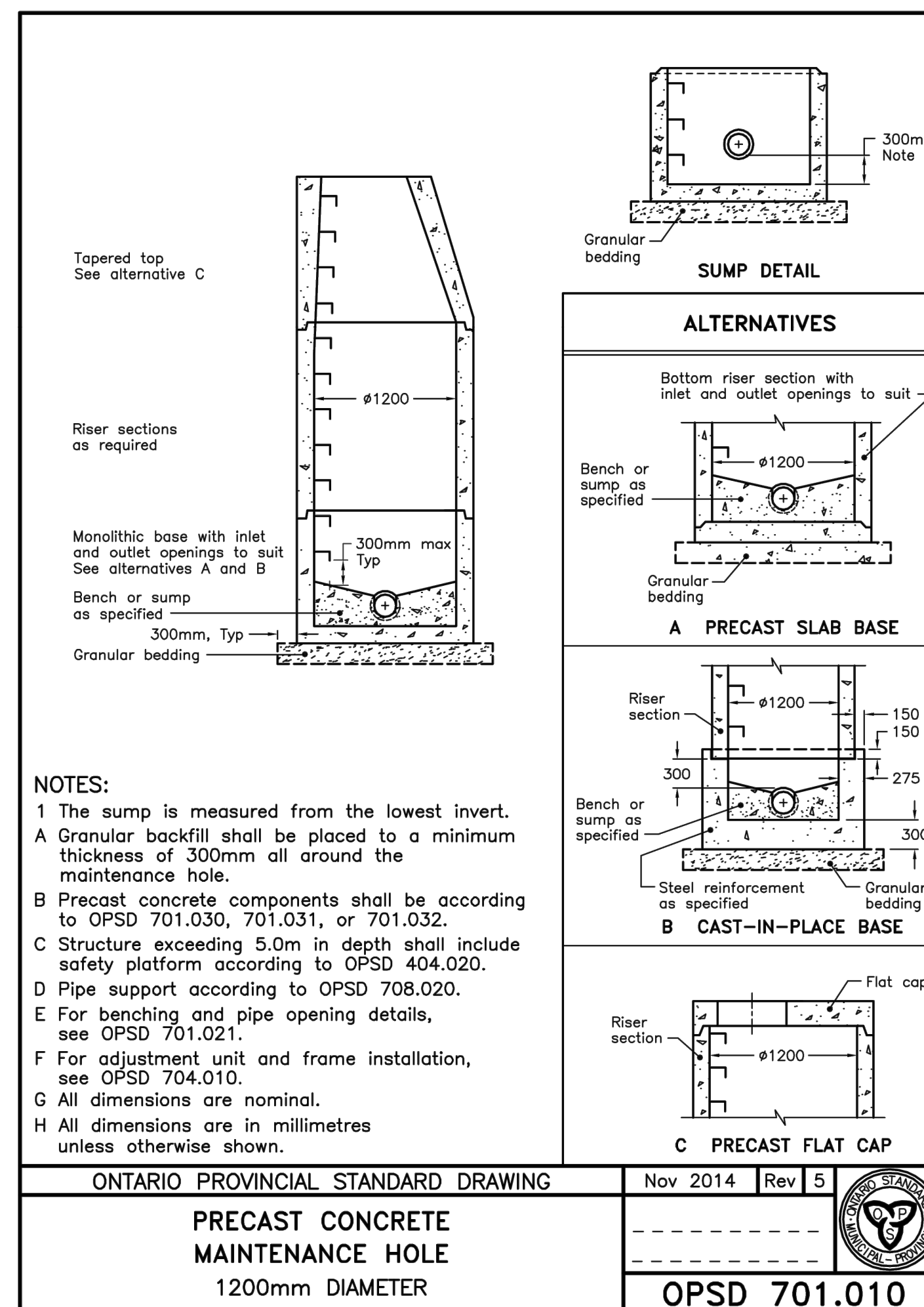
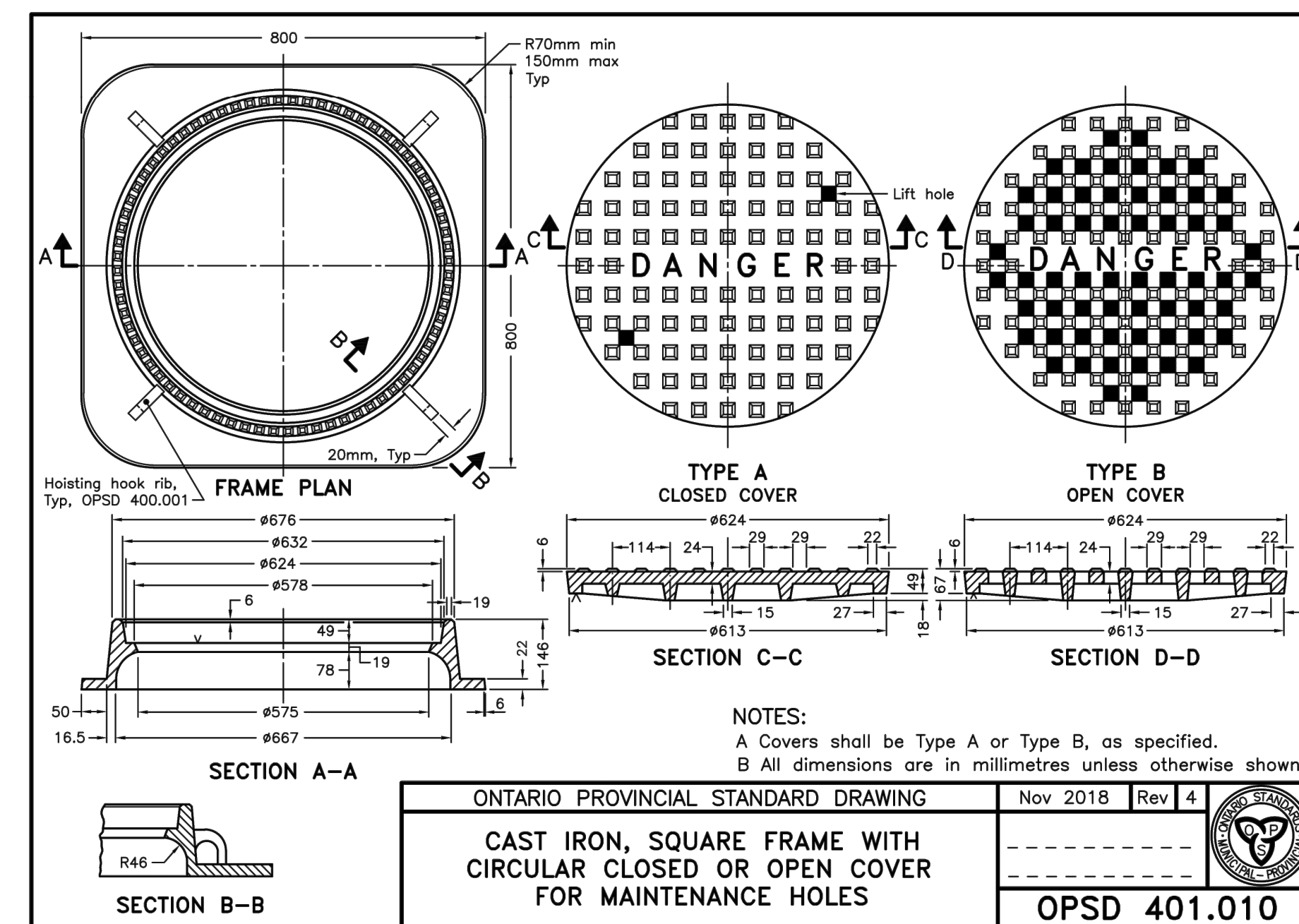
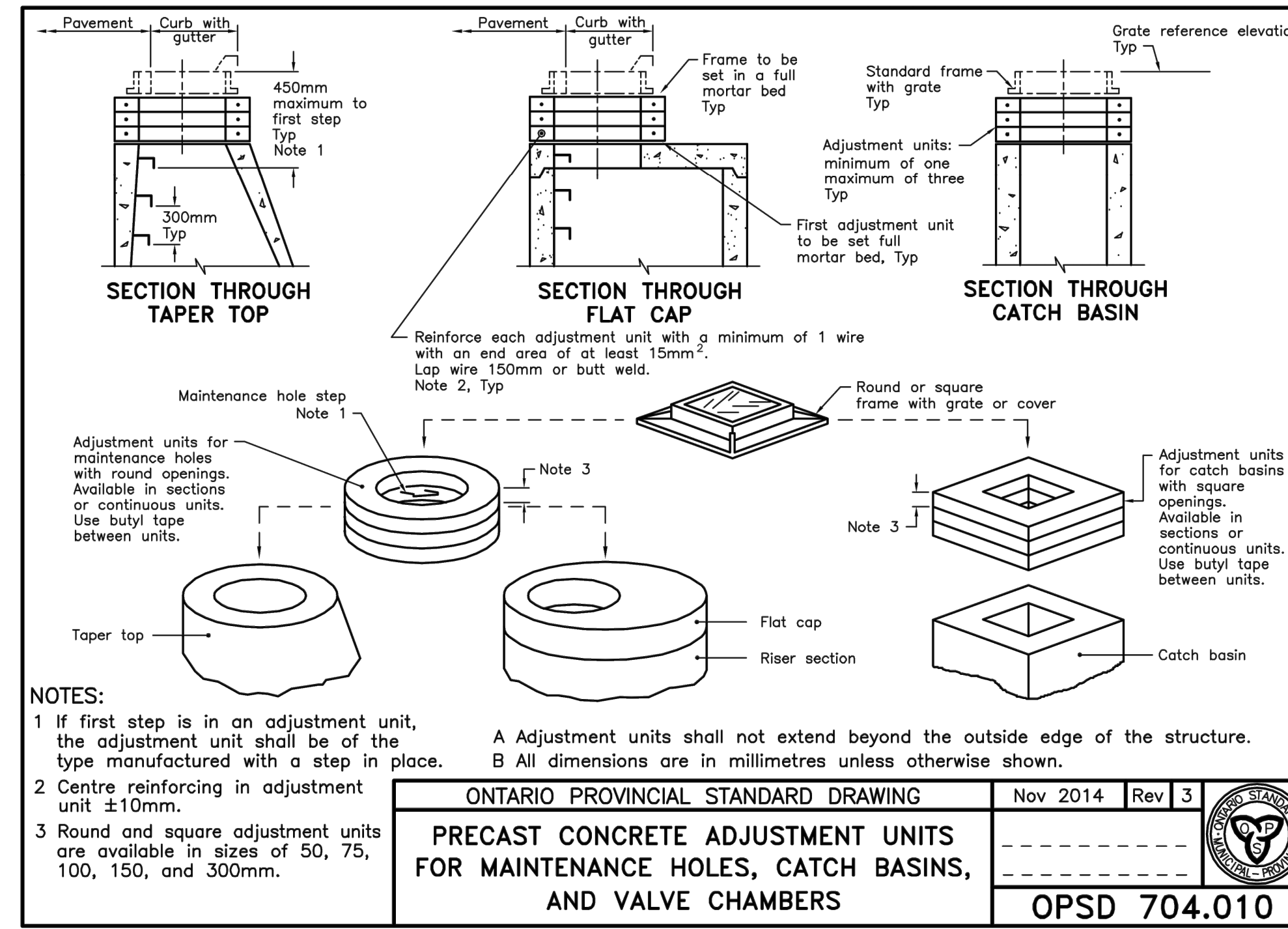
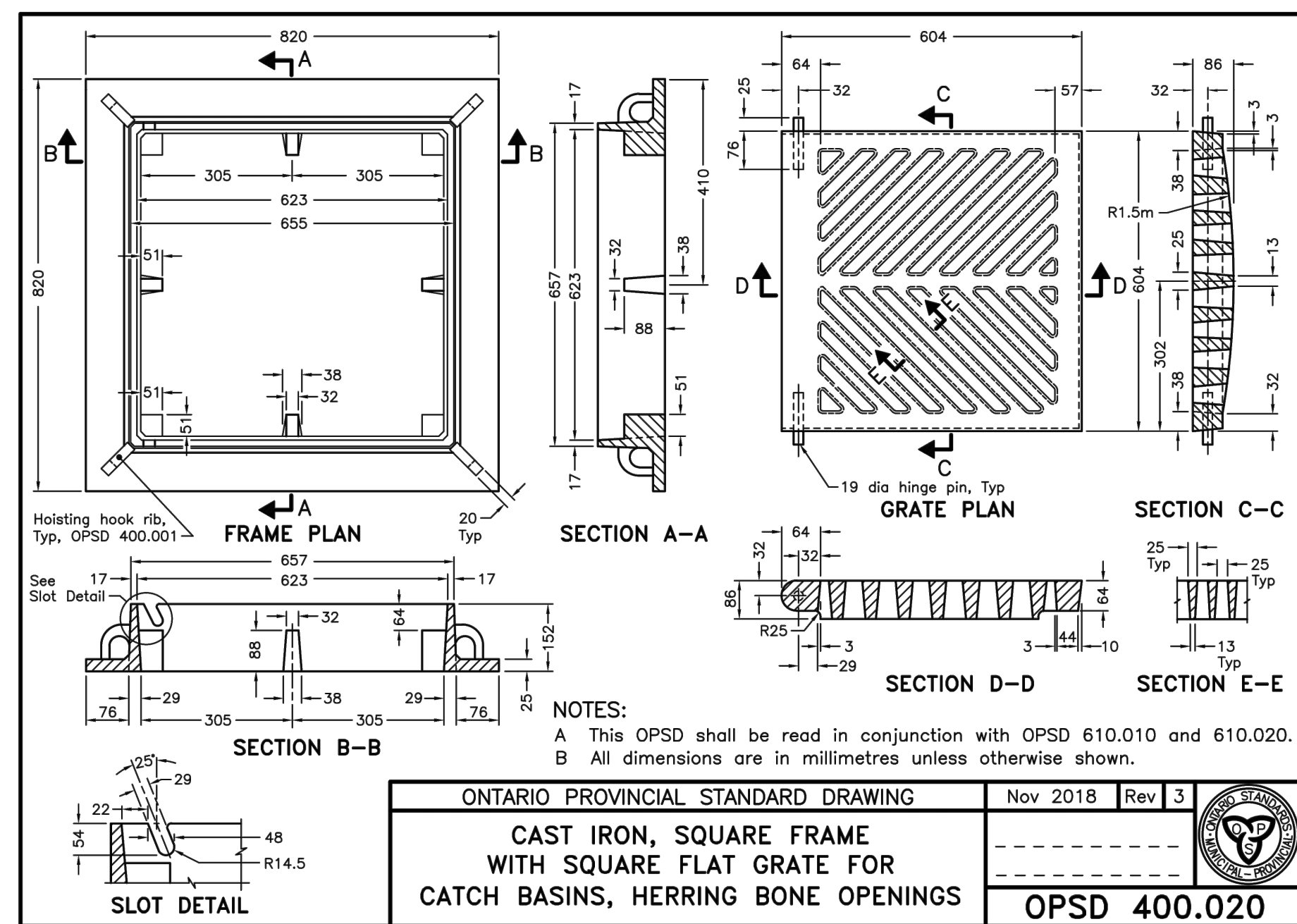
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project title
CLIFTON TOWNS
316-332 CLIFTON ROAD
CLIFTON ROAD, OTTAWA, ONTARIO

drawing title
DETAILS PLAN

drawn	date	scale
SCP	JAN/21	1:200
project	C0100	
drawing no.	C011	
revision no.		



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project title
CLIFTON TOWNS
316-332 CLIFTON ROAD

drawing title
DETAILS PLAN

drawn by
SCP

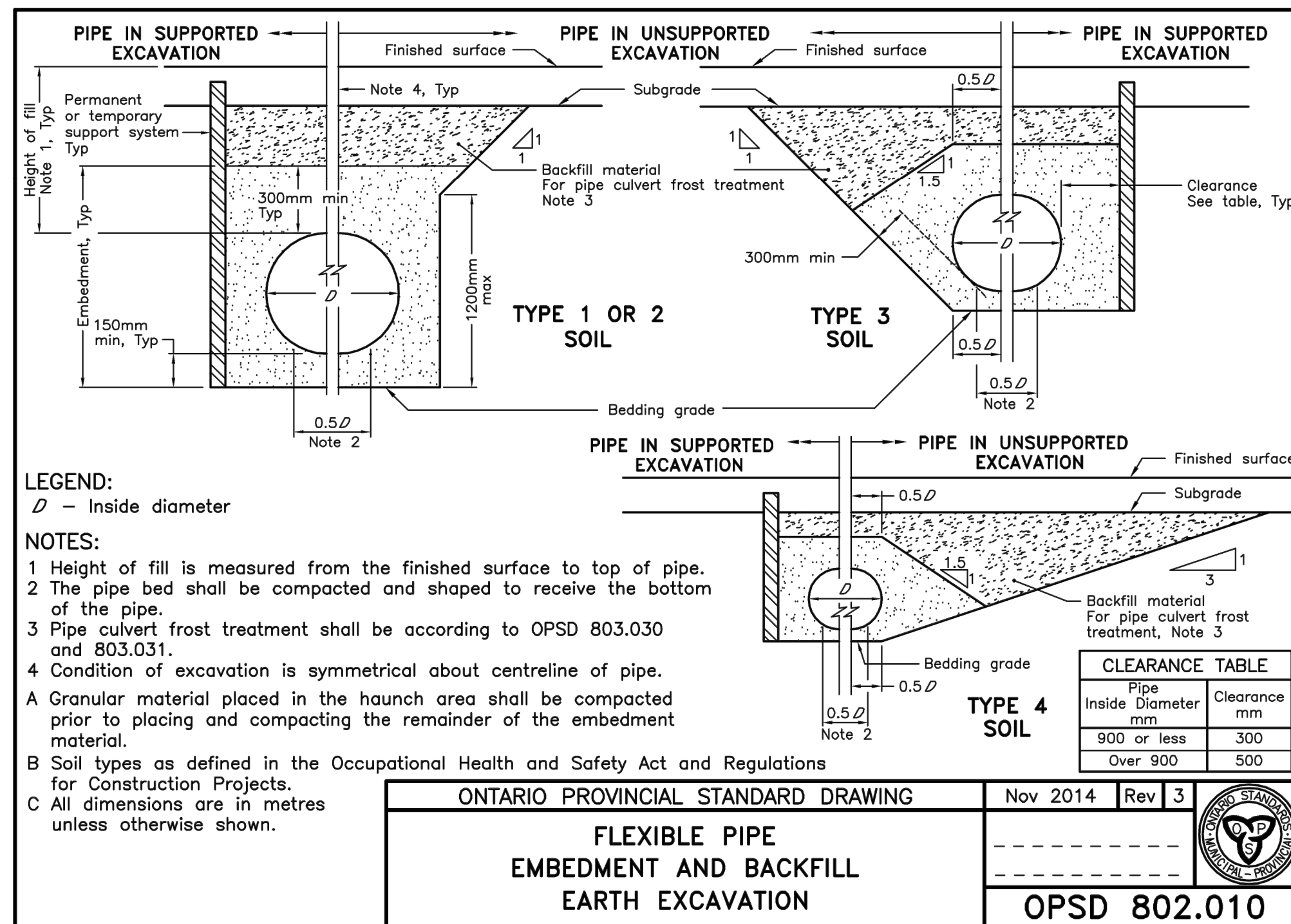
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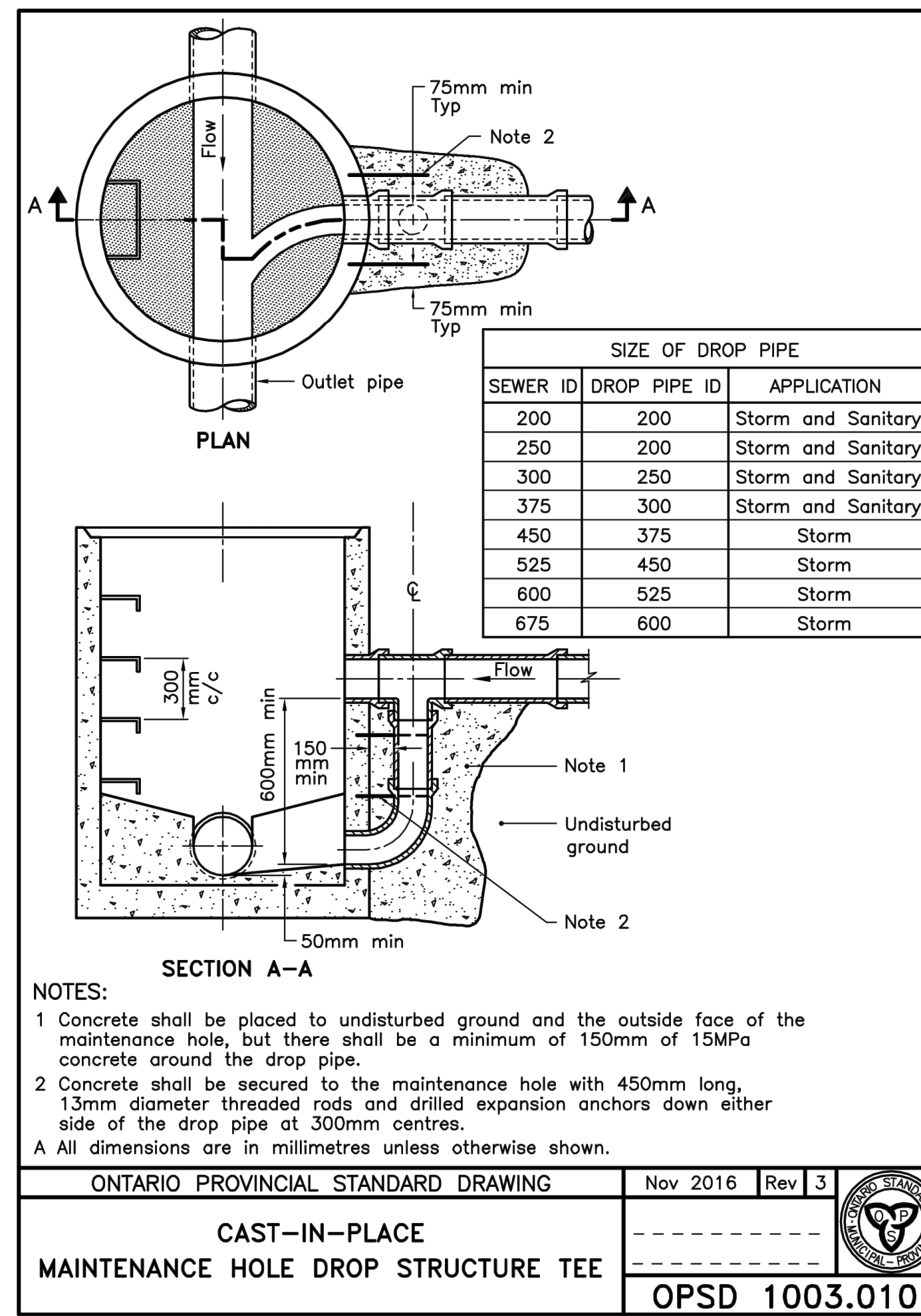
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ONTARIO PROVINCIAL STANDARD DRAWING Nov 2014 Rev 3

FLEXIBLE PIPE EMBEDMENT AND BACKFILL EARTH EXCAVATION

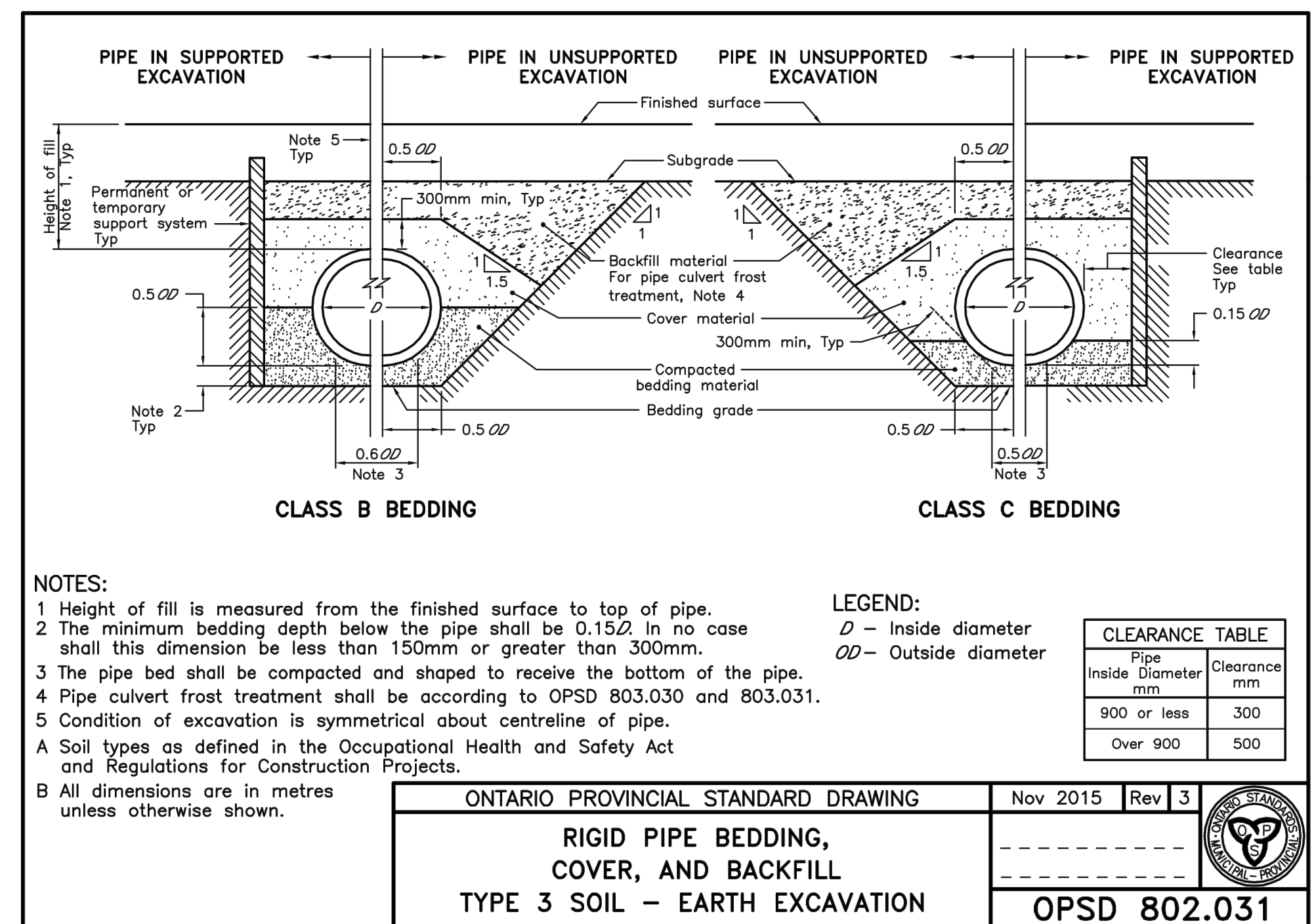
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CAST-IN-PLACE MAINTENANCE HOLE DROP STRUCTURE TEE

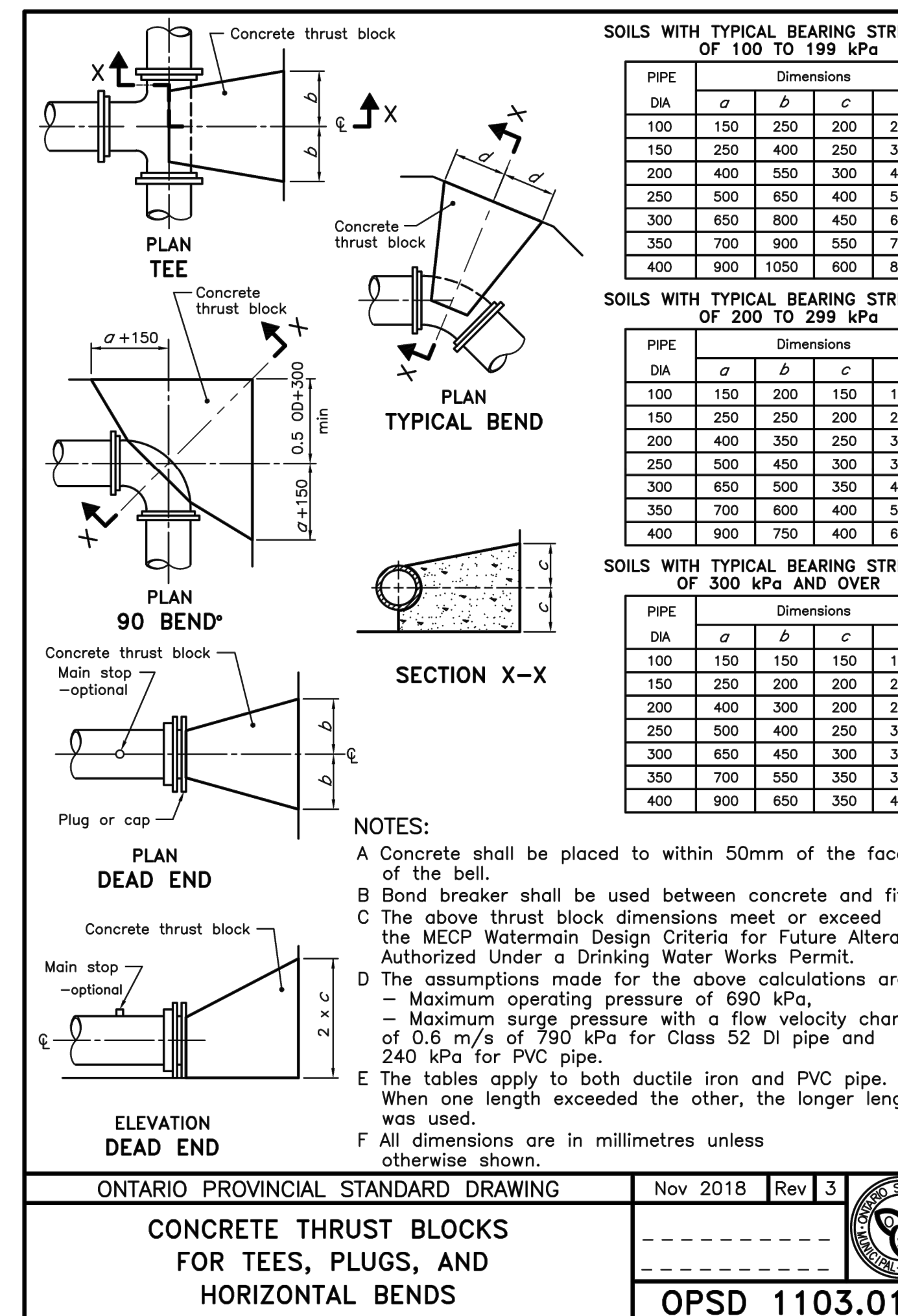
OPSD 1003.010



ONTARIO PROVINCIAL STANDARD DRAWING Nov 2015 Rev 3

RIGID PIPE BEDDING, COVER, AND BACKFILL TYPE 3 SOIL - EARTH EXCAVATION

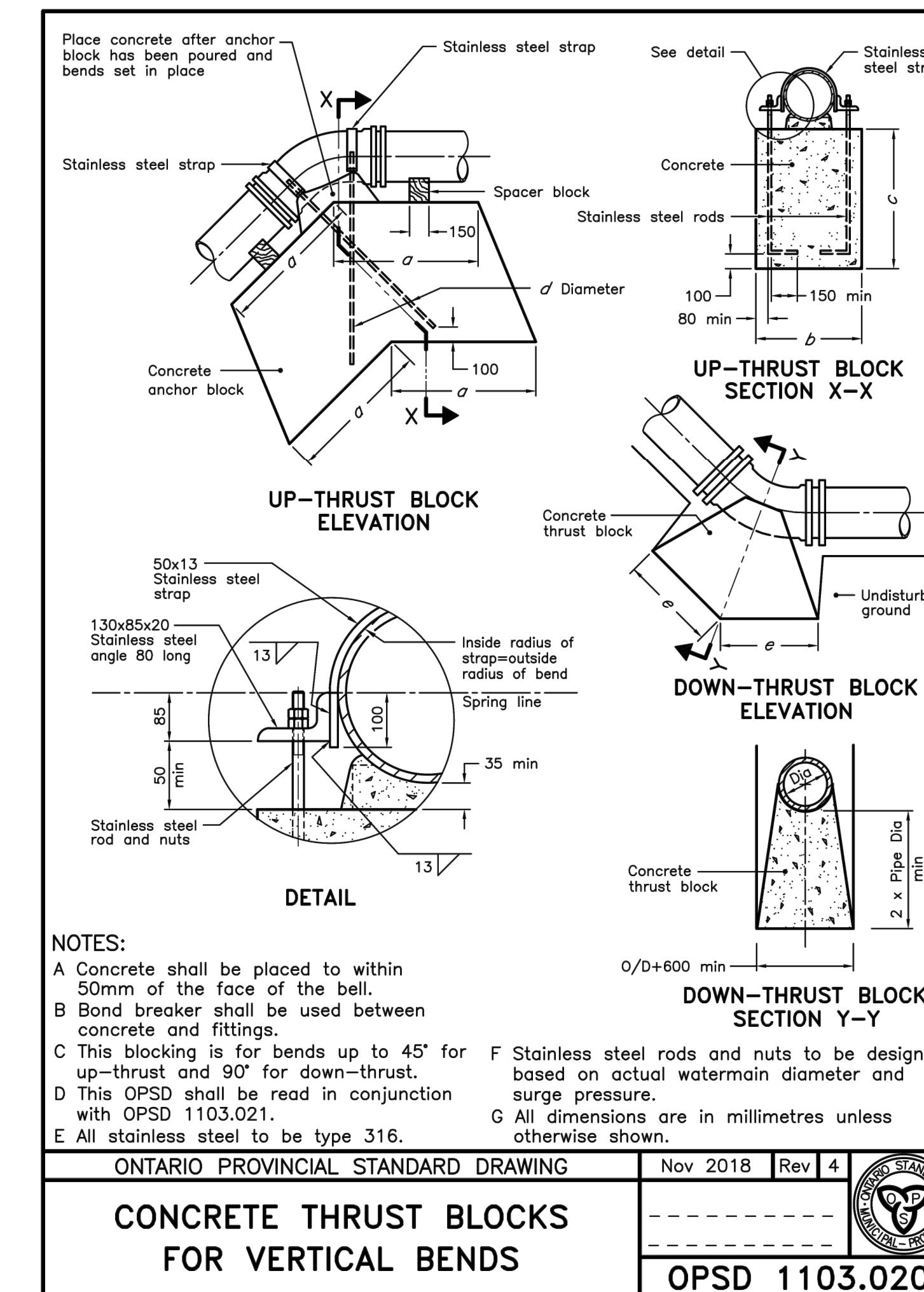
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ONTARIO PROVINCIAL STANDARD DRAWING Nov 2018 Rev 3

CONCRETE THRUST BLOCKS FOR TEES, PLUGS, AND HORIZONTAL BENDS

OPSD 1103.010



ONTARIO PROVINCIAL STANDARD DRAWING Nov 2018 Rev 4

CONCRETE THRUST BLOCKS FOR VERTICAL BENDS

OPSD 1103.020

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DETAILS PLAN

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