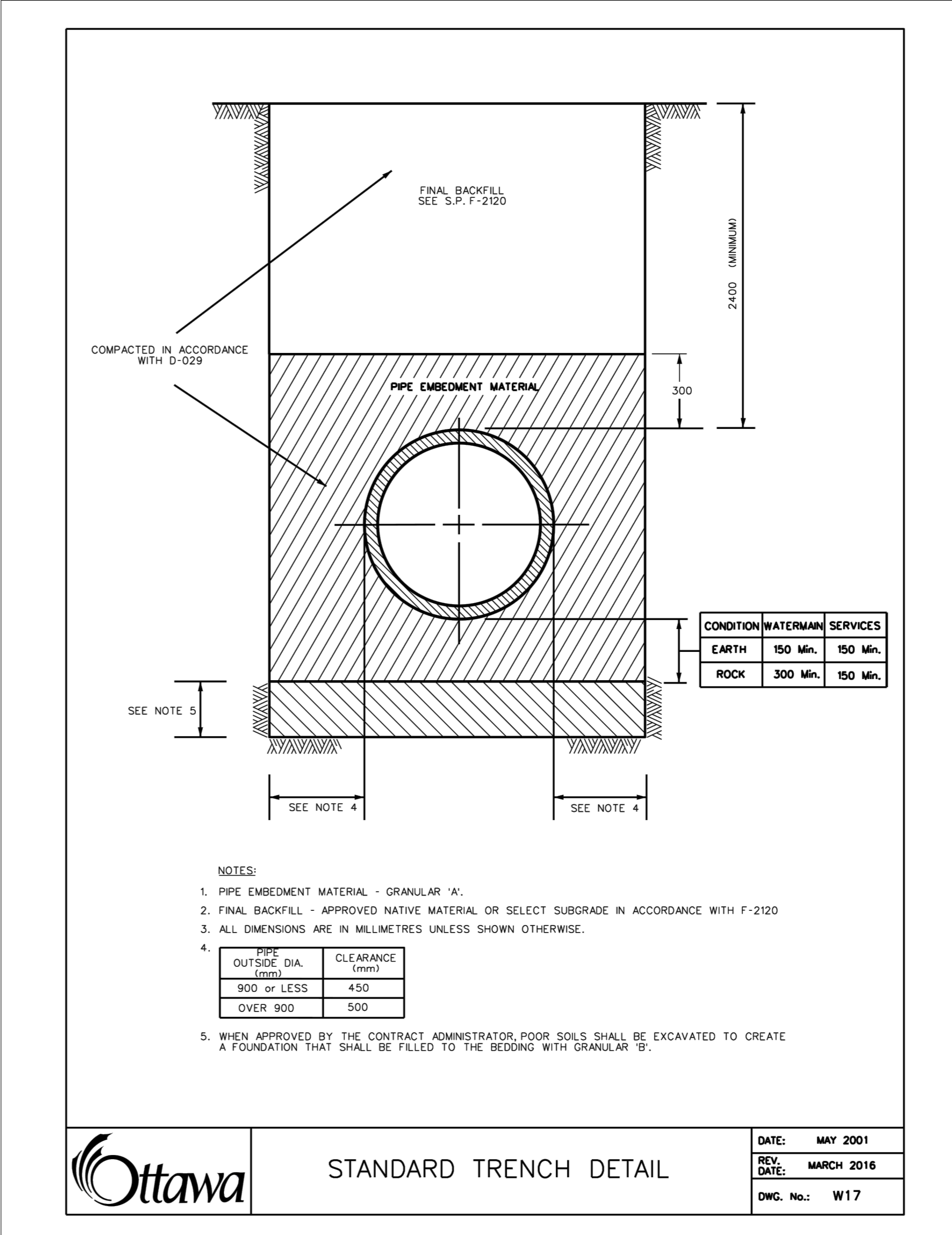
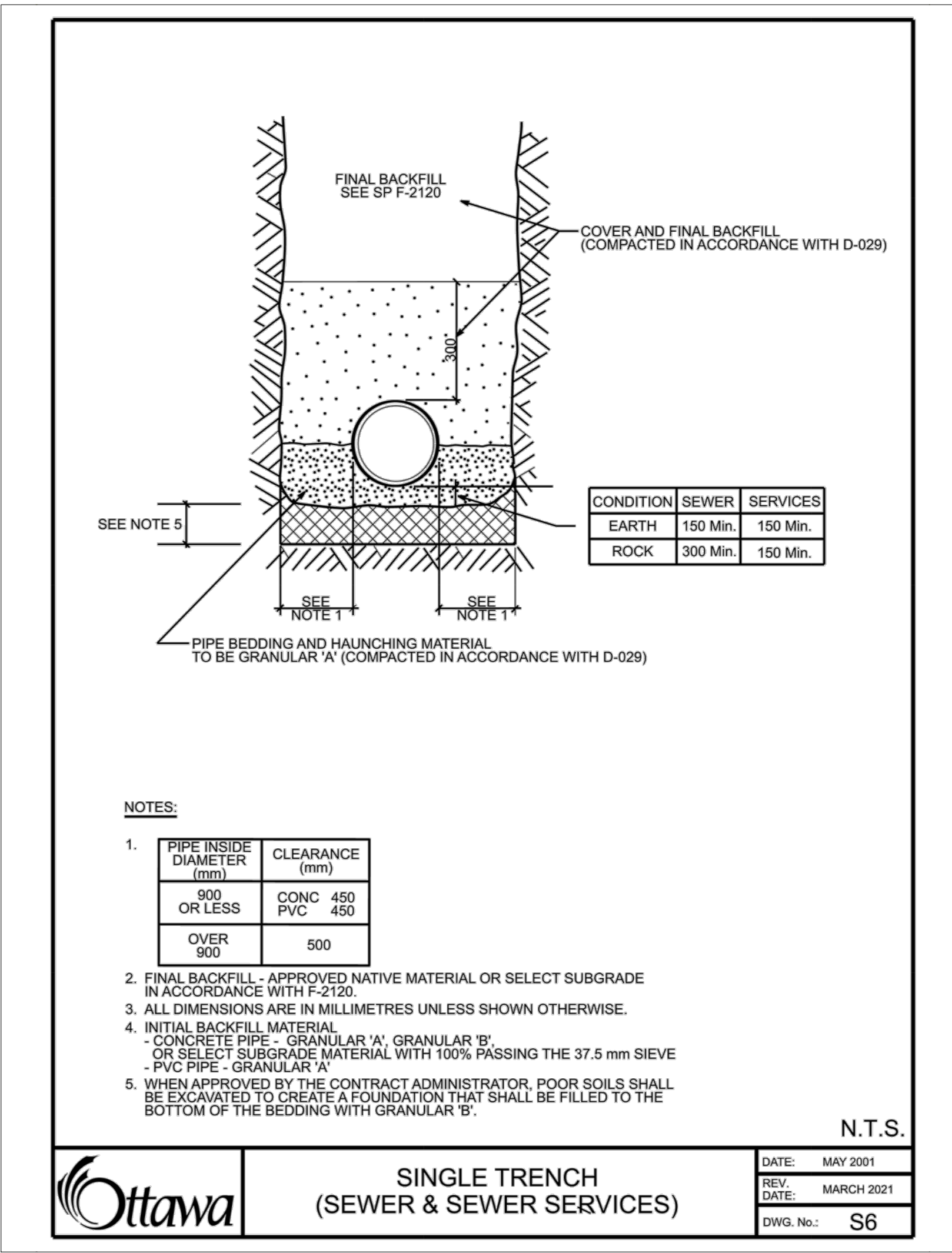


ISSUED

No.	Date	Description
1	2021 AUG 03	ISSUED FOR 100% SD
2	2021 SEP 08	ISSUED FOR SITE PLAN APPROVAL
3	2021 DEC 14	ISSUED FOR 100% DESIGN DEVELOPMENT
4	2022 FEB 18	ISSUED FOR 30% CD
5	2022 MAR 09	ISSUED FOR SITE PLAN RESUBMISSION
6	2022 JUN 16	ISSUED FOR 60% CD
7	2022 OCT 06	ISSUED FOR BUILDING PERMIT
8	2022 OCT 31	ISSUED FOR 95% CD
9	2023 MAR 10	ISSUED FOR SITE PLAN RESUBMISSION
10	2023 OCT 04	ISSUED FOR SITE PLAN RESUBMISSION



**CATCH BASIN DATA**

NO.	COVER	STRUCT.	ELEVATION		NOTES	CB CONNECTION		
			T/FRAME	LOW INV		DIA (mm)	TYPE	LENGTH (m)
DICB1	403.010 TYPE B 3.1	705.030B	60.15	59.22		250	PVC DR35	2.40

**LEGEND**

- NEW AREA DRAIN (REFER TO MECHANICAL FOR CONTINUATION)
- NEW DITCH/INLET CATCHBASIN (BY OTHERS)
- ≡≡≡ NEW STORM SEWER (BY OTHERS)
- ≡≡≡ NEW SANITARY SEWER (BY OTHERS)
- NEW WATERMAIN (BY OTHERS)
- NEW WATER VALVE AND VALVE BOX (W4) (BY OTHERS)
- EXISTING STORM MANHOLE BY OTHERS
- EXISTING SANITARY MANHOLE BY OTHERS
- EXISTING STORM SEWER BY OTHERS
- EXISTING SANITARY SEWER BY OTHERS
- EXISTING WATERMAIN BY OTHERS
- ▽ NEW ENTRANCE
- ▨ STORMWATER MANAGEMENT CISTERN
- SITE BOUNDARY
- EDGE OF SUBSTRUCTURE
- ▽ ENTRANCE OF PARKING GARAGE ACCESS RAMP

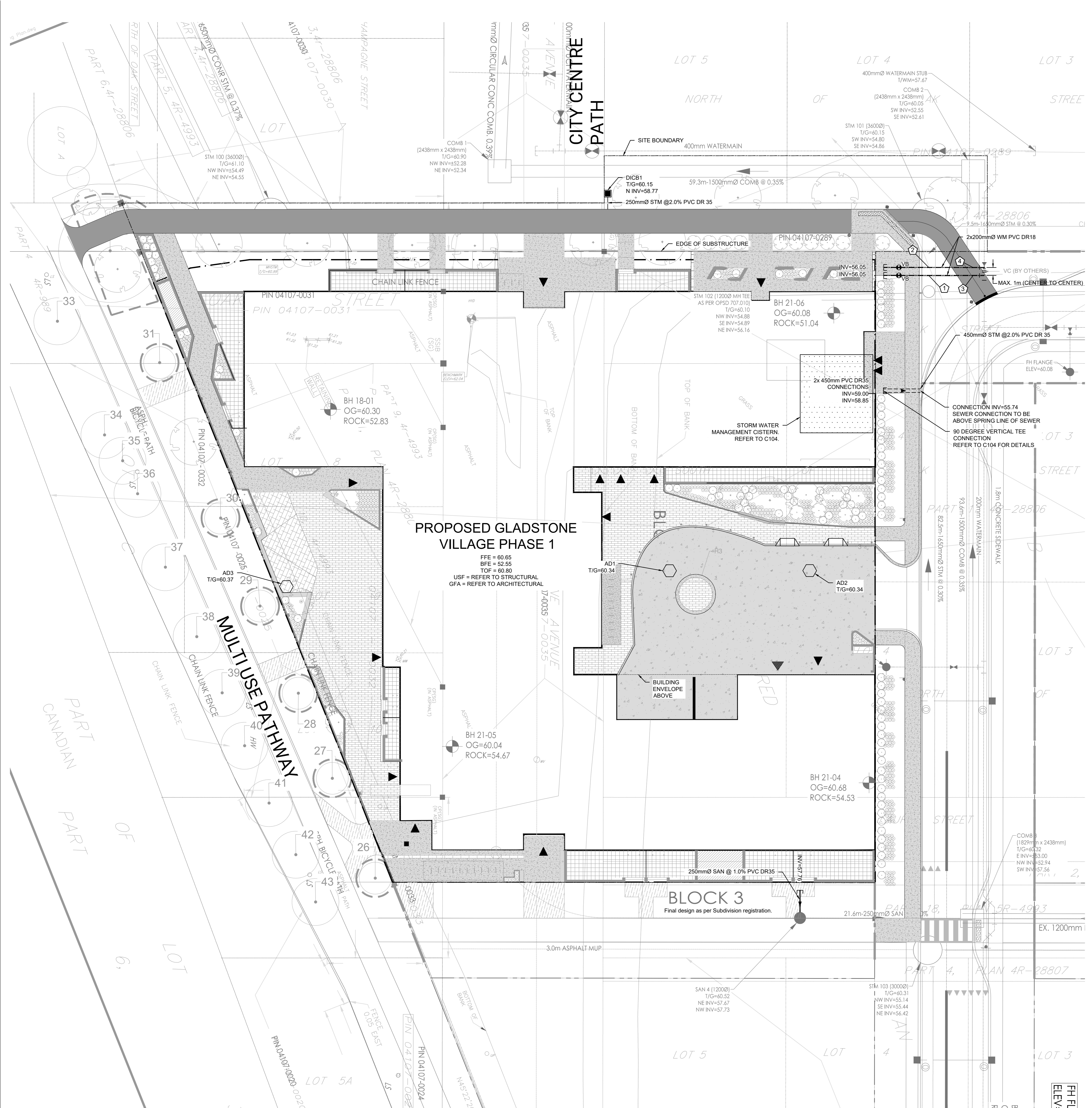
*Andrew McCreight*

**ANDREW MCCREIGHT**  
MANAGER (A), DEVELOPMENT REVIEW CENTRAL  
PLANNING, REAL ESTATE & ECONOMIC DEVELOPMENT  
DEPARTMENT, CITY OF OTTAWA

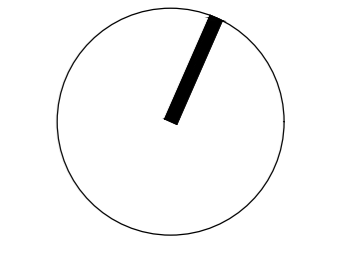
**APPROVED**  
By Andrew McCreight at 10:17 am, Oct 19, 2023

**PIPE CROSSING TABLE**

	PIPE	CLEARANCE	OVER	PIPE	INVERT	OVER	PIPE
1	200mmØ WM	0.44m	CLEARANCE OVER	1650mmØ STM	WM INV=56.96, STM OBV=56.52		
2	200mmØ WM	0.44m	CLEARANCE OVER	1650mmØ STM	WM INV=56.96, STM OBV=56.52		
3	200mmØ WM	0.45m	CLEARANCE OVER	1500mmØ SAN	WM INV=54.61, SAN OBV=54.16		
4	200mmØ WM	0.45m	CLEARANCE OVER	1500mmØ SAN	WM INV=54.61, SAN OBV=54.16		



- NOTES:**
- TOPOGRAPHICAL SURVEY PREPARED BY STANTEC DATED DEC 21, 2021. MTM ZONE 9 (78°30' WEST LONGITUDE), NAD83 (CSRS) (2011.0), COORDINATES TO URBAN ACCURACY PER SEC 14(2) OF REG. 216/10
  - POINT - A (N 5209975.08, E 366271.64)
  - POINT - B (N 5209672.88, E 366381.54)
  - SERVICES ARE TO BE CONSTRUCTED TO 1.0m FROM FACE OF BUILDING.
  - CONTRACTOR TO VERIFY ALL EXISTING UTILITY ELEVATIONS AT CONNECTION AND CROSSING LOCATIONS PRIOR TO CONSTRUCTION AND ADVISE THE ENGINEER OF ANY DISCREPANCIES.
  - UNLESS DIRECTED OTHERWISE ANY DAMAGED ASPHALT OR CURB (REGARDLESS OF WHETHER WITHIN OR EXTERNAL TO THE SITE) SHALL BE REINSTATED IN ACCORDANCE WITH CITY STD. DET. R10 AND S1.
  - UNLESS DIRECTED OTHERWISE THE CONTRACTOR SHALL REINSTATE ALL SIGNS, LIGHTING AND OTHER STREET FURNITURE DISTURBED BY THE WORK.
  - THE CONTRACTOR SHALL DEVELOP AND IMPLEMENT TRAFFIC MANAGEMENT PLANS FOR WORK IN RIGHT OF WAY IN ACCORDANCE WITH OTM BOOK 7.
  - THE CONTRACTOR SHALL PROVIDE ANY TEMPORARY SERVICING NEEDED, AND SHALL ALSO COORDINATE WITH OTHER TRADES AS NECESSARY.
  - ALL STORM SEWERS, SANITARY SEWERS AND CATCH BASINS LEADS SHALL BE PVC DR 35 UNLESS OTHERWISE SPECIFIED.
  - REFER TO DETAIL 1 ON DRAWING C004 FOR SEWER INSTALLATION.
  - CONTRACTOR SHALL MAINTAIN EXISTING SEWER FLOWS DURING CONSTRUCTION IN ACCORDANCE WITH CITY OF OTTAWA SPECIFICATIONS.
  - ALL MAINTENANCE HOLES, CATCHBASINS AND AREA DRAINS SHALL BE ADJUSTED TO POST-CONSTRUCTION GRADE.
  - LEAKAGE TEST (SANITARY SEWER ONLY) AND CCTV INSPECTION SHALL BE COMPLETED AS PER CITY OF OTTAWA STANDARD DETAILS W25.3, W25.4, W25.5 AND W25.6. ALL TEMPORARY THRUST RESTRAINTS ARE THE RESPONSIBILITY OF THE CONTRACTOR.
  - TRACER WIRE SHALL BE PROVIDED FOR ALL NEW PVC WATERMANS IN ACCORDANCE WITH THE SPECIFICATIONS AND CITY OF OTTAWA STANDARD DETAIL W36.
  - CATHODIC PROTECTION SHALL BE PROVIDED FOR ALL NEW WATERMANS IN ACCORDANCE WITH THE SPECIFICATIONS AND CITY OF OTTAWA STANDARD DETAILS W39, W40, W41, W42 AND W47. CATHODIC PROTECTION OF EXISTING WATERMANS SHALL ALSO BE PROVIDED AT CONNECTIONS BETWEEN EXISTING AND NEW WATERMANS.
  - ADJUST ALL VALVE CHAMBERS, VALVE BOXES AND HYDRANTS TO FINISHED GRADE.
  - UTILITY NOTE
  - THE POSITION OF POLE LINES, CONDUITS, WATERMANS, SEWERS AND OTHER UNDERGROUND AND OVERGROUND UTILITIES AND STRUCTURES IS NOT NECESSARILY SHOWN ON THE CONTRACT DRAWING AND, WHERE SHOWN, THE ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED. BEFORE STARTING WORK THE CONTRACTOR SHALL INFORM HIMSELF OF THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES, AND SHALL ASSUME ALL LIABILITY FOR DAMAGE TO THEM. THE CONTRACTOR WILL BE RESPONSIBLE FOR SUPPORTING AND PROTECTING ANY EXISTING UTILITIES, AS REQUIRED, IN ACCORDANCE WITH THE UTILITY OWNERS' REQUIREMENTS. CONTRACTOR IS REQUIRED TO OBTAIN LOCATES, IN ADVANCE OF EXCAVATION WORK, AND FORWARD COPIES OF THE LOCATES TO THE CONSULTANT AND THE OWNER PRIOR TO EXCAVATION.
  - ALL CROSSING OF EX. UTILITIES TO BE IN ACCORDANCE WITH CITY STD. DET. S10



CONTRACTOR MUST CHECK & VERIFY ALL DIMENSIONS ON THE JOB. 50% NOT SCALE DRAWING.

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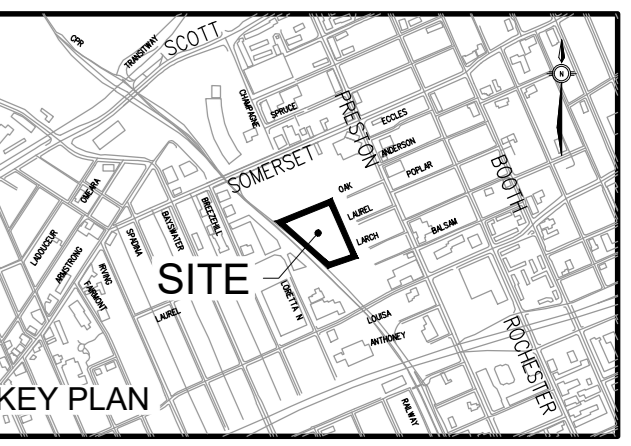
**GLADSTONE VILLAGE PHASE 1**  
933 Gladstone Avenue - Phase 1  
21006

**SITE SERVICING PLAN**

Scale: 1:200  
Project No: 210101900  
Date: 04/10/23

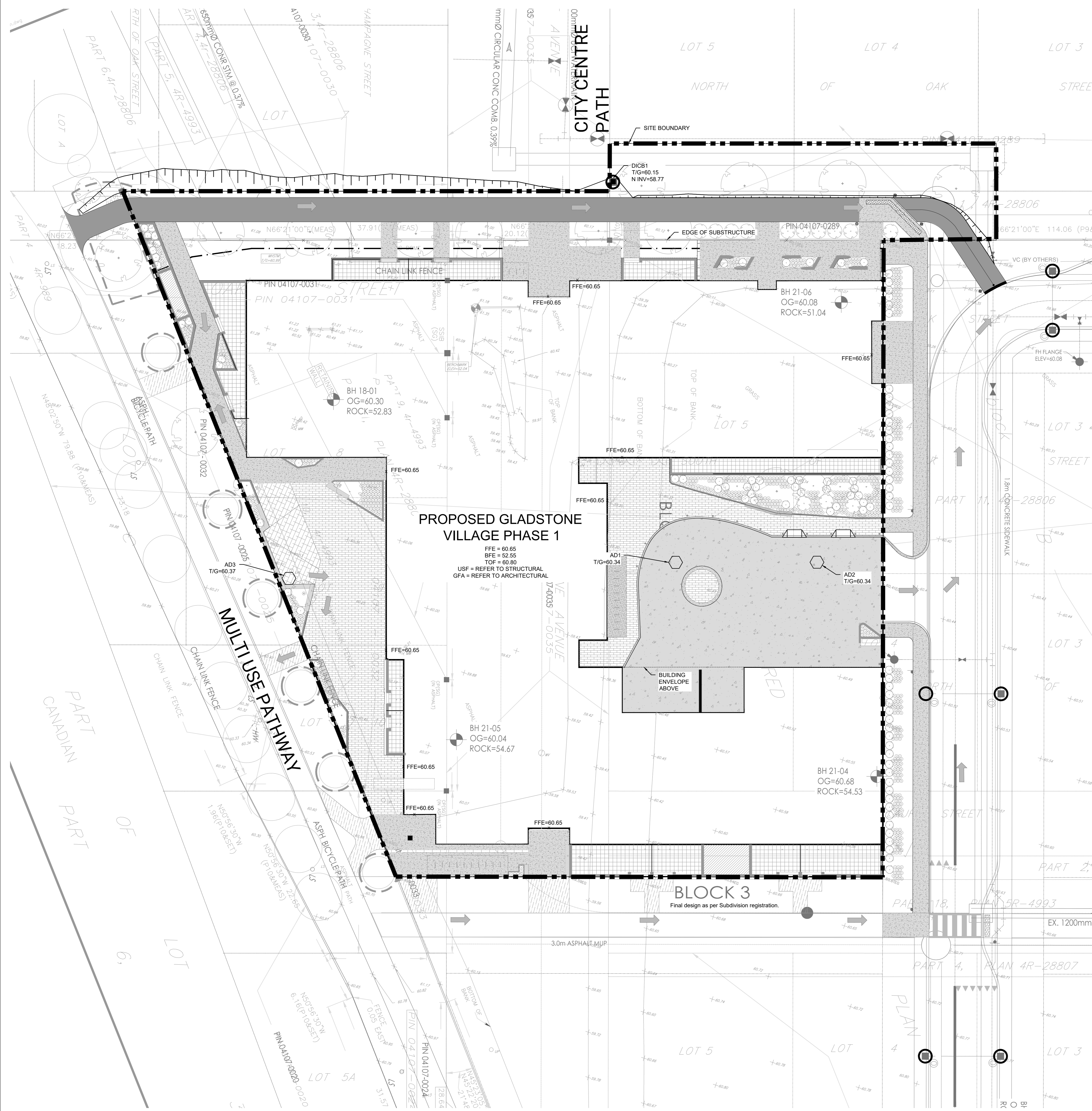
**C001**  
#18593



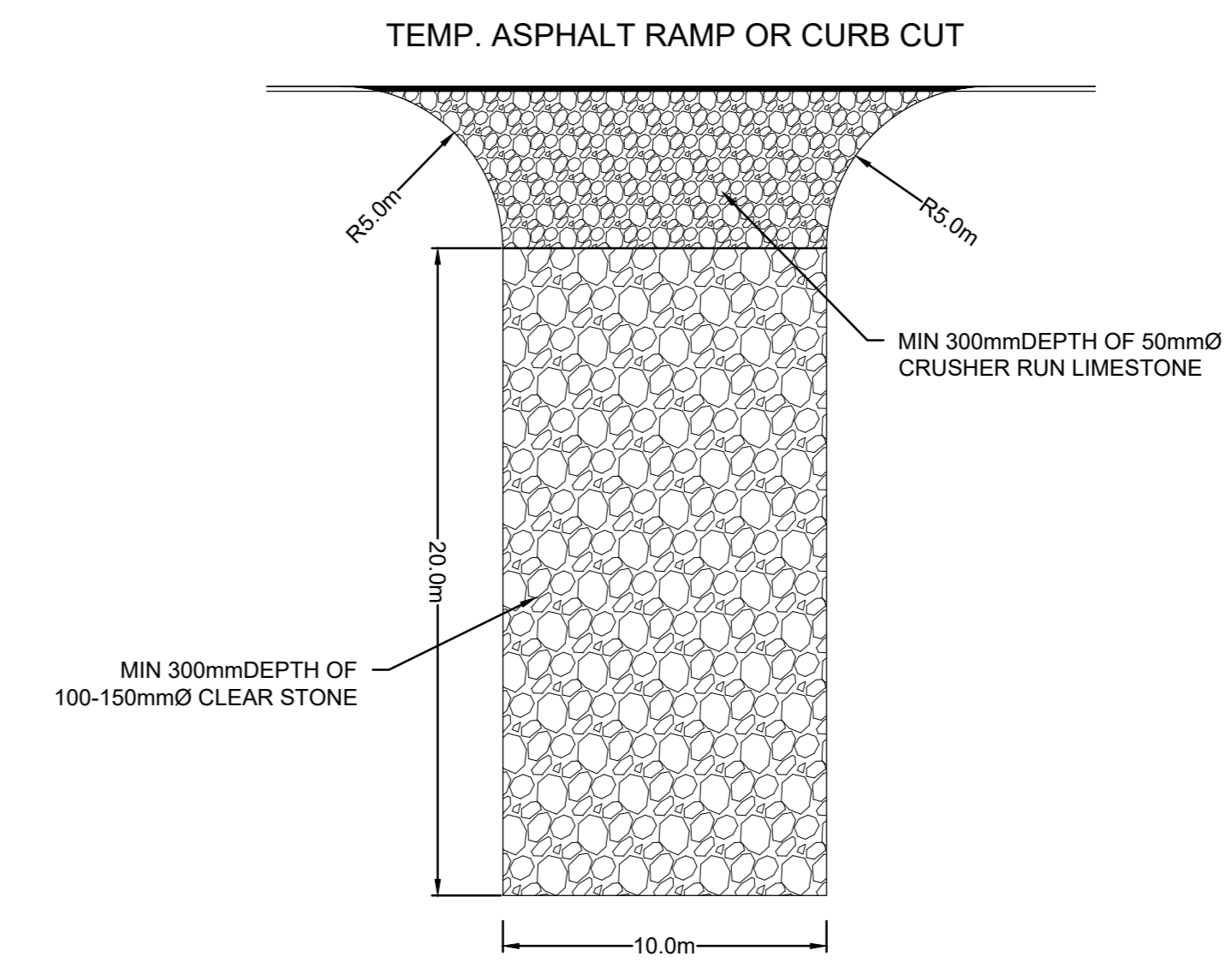


ISSUED

No.	Date	Description
1	2021 SEP 08	ISSUED FOR SITE PLAN APPROVAL
2	2021 DEC 14	ISSUED FOR 100% DESIGN DEVELOPMENT
3	2022 FEB 18	ISSUED FOR 30% CD
4	2022 MAR 09	ISSUED FOR SITE PLAN RESUBMISSION
5	2022 JUN 16	ISSUED FOR 60% CD
6	2022 OCT 06	ISSUED FOR BUILDING PERMIT
7	2022 OCT 31	ISSUED FOR 93% CD
8	2023 MAR 10	ISSUED FOR SITE PLAN RESUBMISSION
9	2023 OCT 04	ISSUED FOR SITE PLAN RESUBMISSION



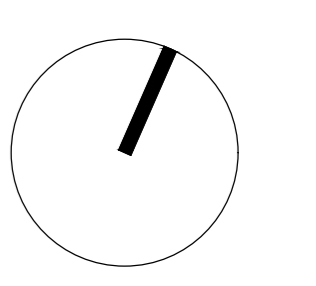
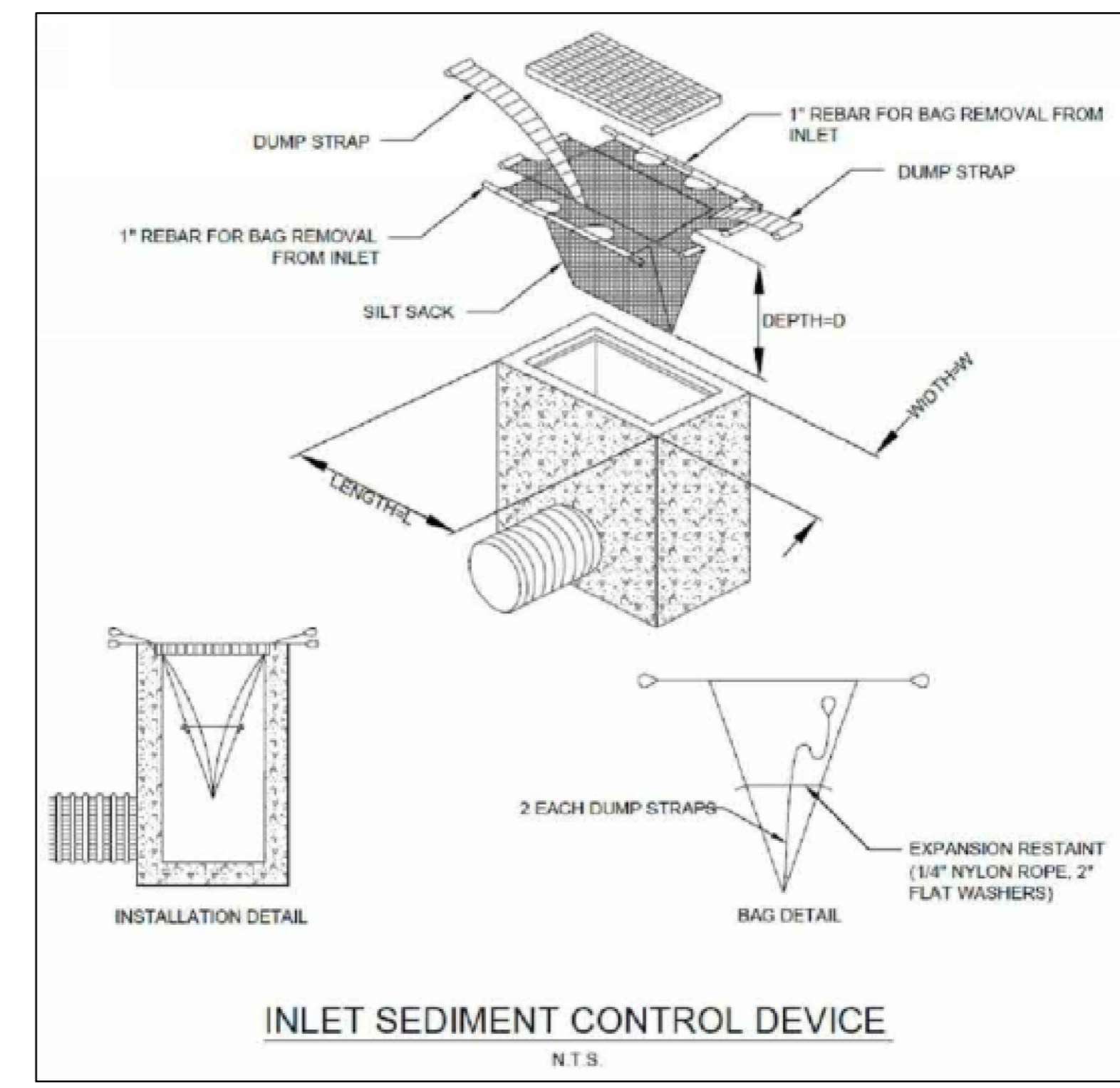
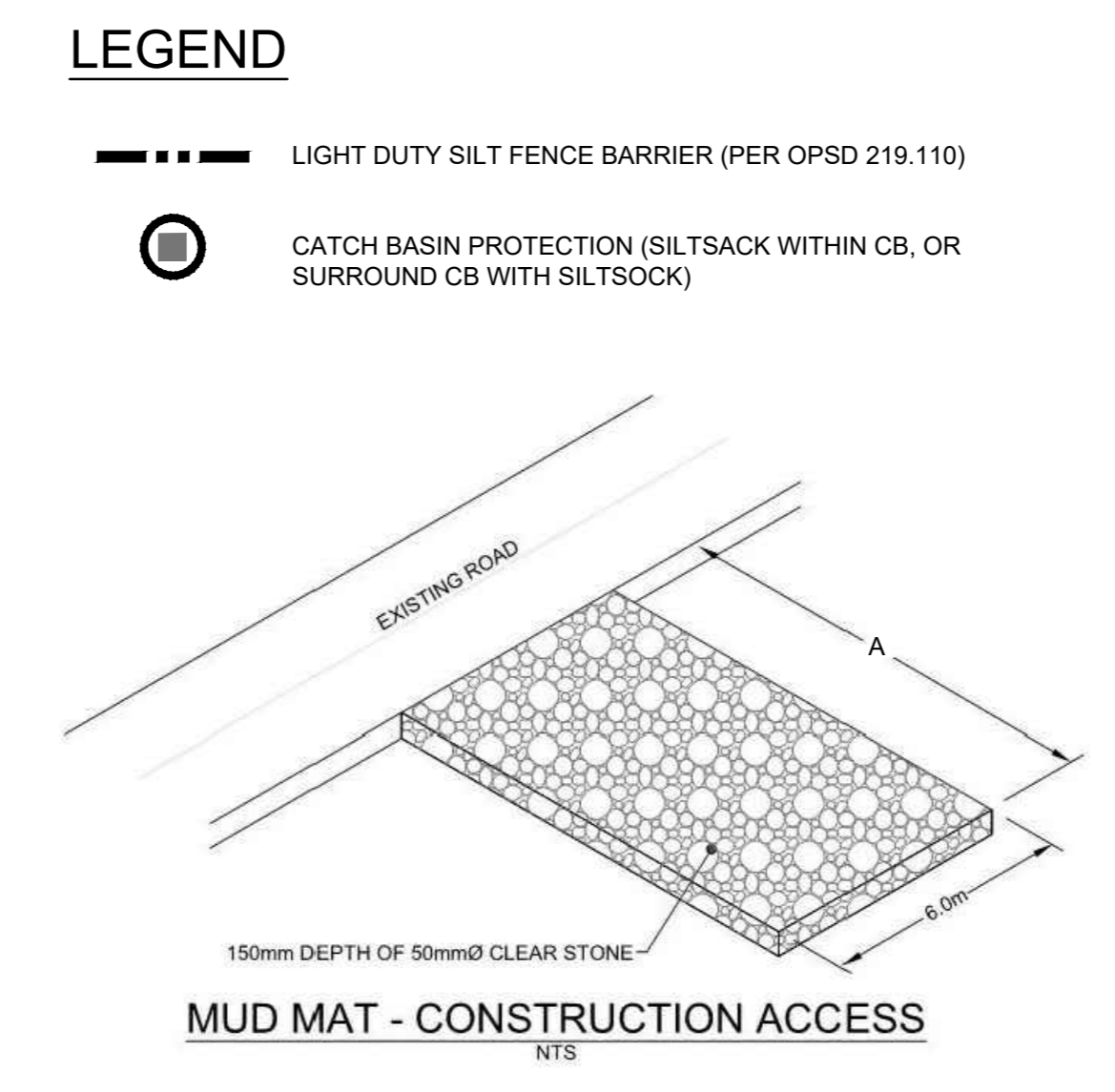
- EROSION AND SEDIMENT CONTROL**
- THE CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES TO PROVIDE FOR PROTECTION OF THE AREA DRAINAGE SYSTEM AND THE RECEIVING WATERCOURSE, DURING CONSTRUCTION ACTIVITIES. THIS INCLUDES LIMITING THE AMOUNT OF EXPOSED SOIL, USING CATCH BASIN SEDIMENT PROTECTION AND INSTALLING SILT FENCES AND OTHER EFFECTIVE SEDIMENT TRAPS. THE CONTRACTOR ACKNOWLEDGES THAT FAILURE TO IMPLEMENT APPROPRIATE EROSION AND SEDIMENT CONTROL MEASURES MAY BE SUBJECT TO PENALTIES IMPOSED BY ANY APPLICABLE REGULATORY AGENCY.
  - EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE IMPLEMENTED PRIOR TO CONSTRUCTION AND REMAIN IN PLACE UNTIL VEGETATION IS ESTABLISHED.
  - REGULAR INSPECTION AND MAINTENANCE OF THE EROSION AND SEDIMENT MEASURES SHALL BE UNDERTAKEN. THE IMPLEMENTATION AND ADJUSTMENT AND/OR CORRECTIVE MAINTENANCE OF THE EROSION AND SEDIMENT MEASURES IS AN INTEGRAL PART OF THE PLAN AND MUST BE PERFORMED.
  - CONTRACTOR IS RESPONSIBLE TO KEEP THE ROADS FREE AND CLEAN FROM MUD AND DEBRIS. AS A MINIMUM THIS SHALL INCLUDE SWEEPING LIBRARY ROAD DAILY DURING EXCAVATION WORK.
  - THE SEDIMENT AND EROSION CONTROL MEASURES MAY BE MODIFIED IN THE FIELD AT THE DISCRETION OF THE CITY OF OTTAWA SITE INSPECTOR OR CONSERVATION AUTHORITY.



- NOTES:**
- INSTALL AT ALL SITE ACCESS LOCATIONS.
  - TEMPORARY CONSTRUCTION ACCESS SHALL BE REMOVED ON COMPLETION OF THE WORK AND ALL DISTURBED AREAS SHALL BE RESTORED TO ORIGINAL OR BETTER CONDITION.

*Andrew McCreight*  
**ANDREW MCCREIGHT**  
MANAGER (A), DEVELOPMENT REVIEW CENTRAL  
PLANNING, REAL ESTATE & ECONOMIC DEVELOPMENT  
DEPARTMENT, CITY OF OTTAWA

**APPROVED**  
By Andrew McCreight at 10:17 am, Oct 19, 2023



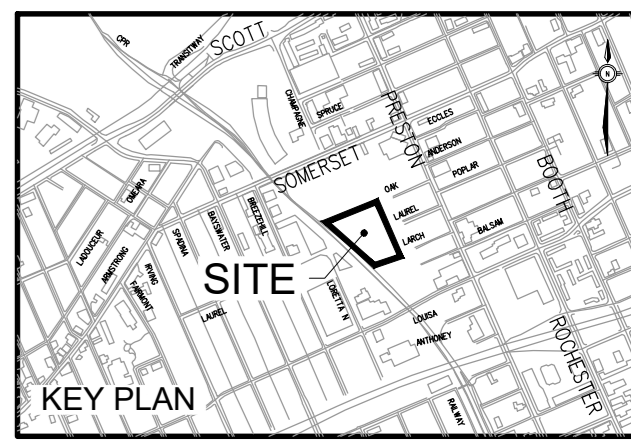
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**GLADSTONE VILLAGE PHASE 1**  
933 Gladstone Avenue - Phase 1  
21006

EROSION AND SEDIMENT CONTROL PLAN

Scale: 1:200  
Project No: 210101900  
Date: 04/10/23

**C003**  
#18593



- ISSUED
- | No. | Date        | Description                             |
|-----|-------------|---|
| 1   | 2021 SEP 08 | ISSUED FOR SITE PLAN APPROVAL           |
| 2   | 2021 DEC 14 | ISSUED FOR 100% DESIGN DEVELOPMENT      |
| 3   | 2022 FEB 18 | ISSUED FOR 30% CD                       |
| 4   | 2022 MAR 09 | ISSUED FOR SITE PLAN RESUBMISSION       |
| 5   | 2022 JUN 16 | ISSUED FOR 60% CD                       |
| 6   | 2022 OCT 06 | ISSUED FOR BUILDING PERMIT RESUBMISSION |
| 7   | 2022 OCT 31 | ISSUED FOR 93% CD                       |
| 8   | 2023 MAR 10 | ISSUED FOR SITE PLAN RESUBMISSION       |
| 9   | 2023 OCT 04 | ISSUED FOR SITE PLAN RESUBMISSION       |

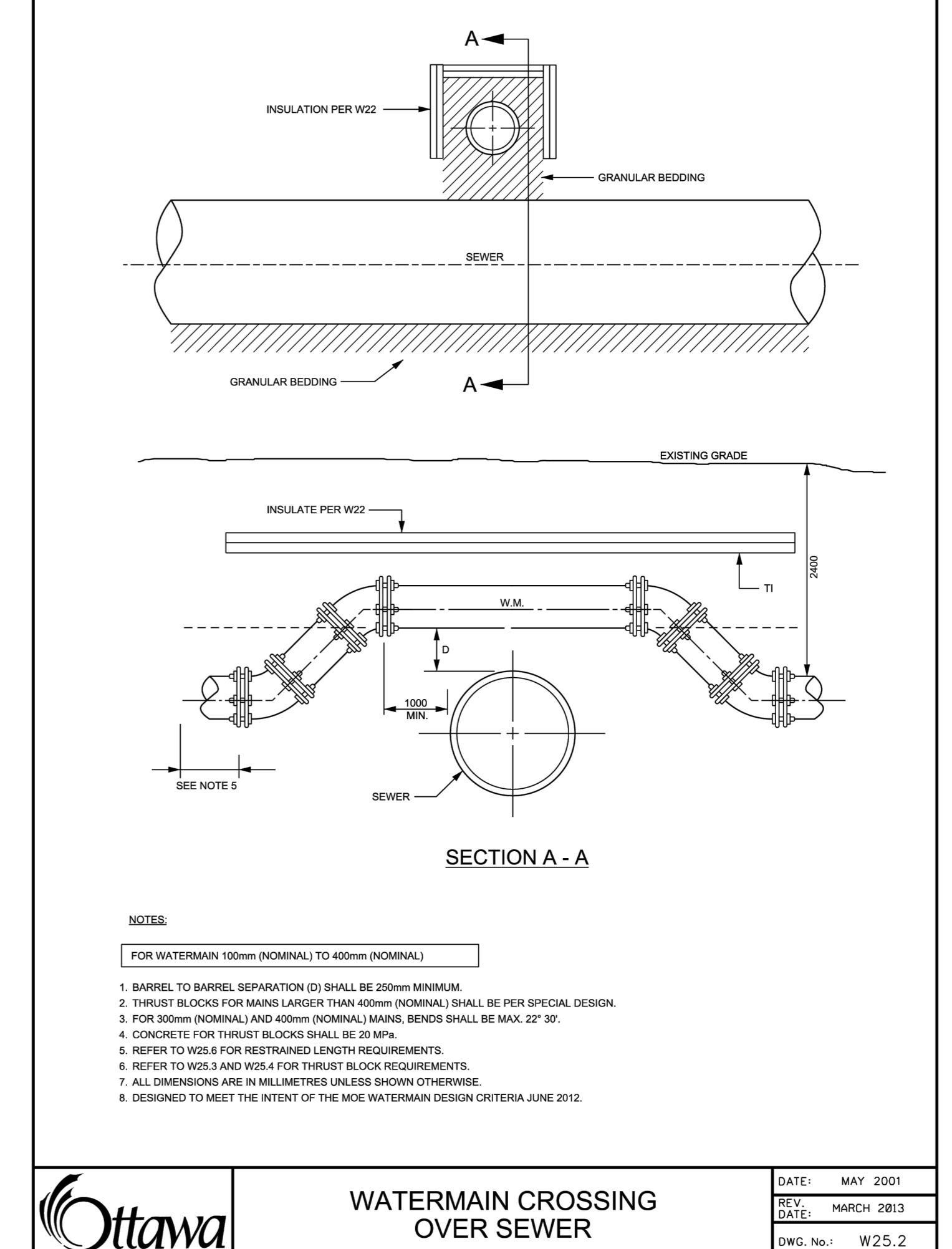
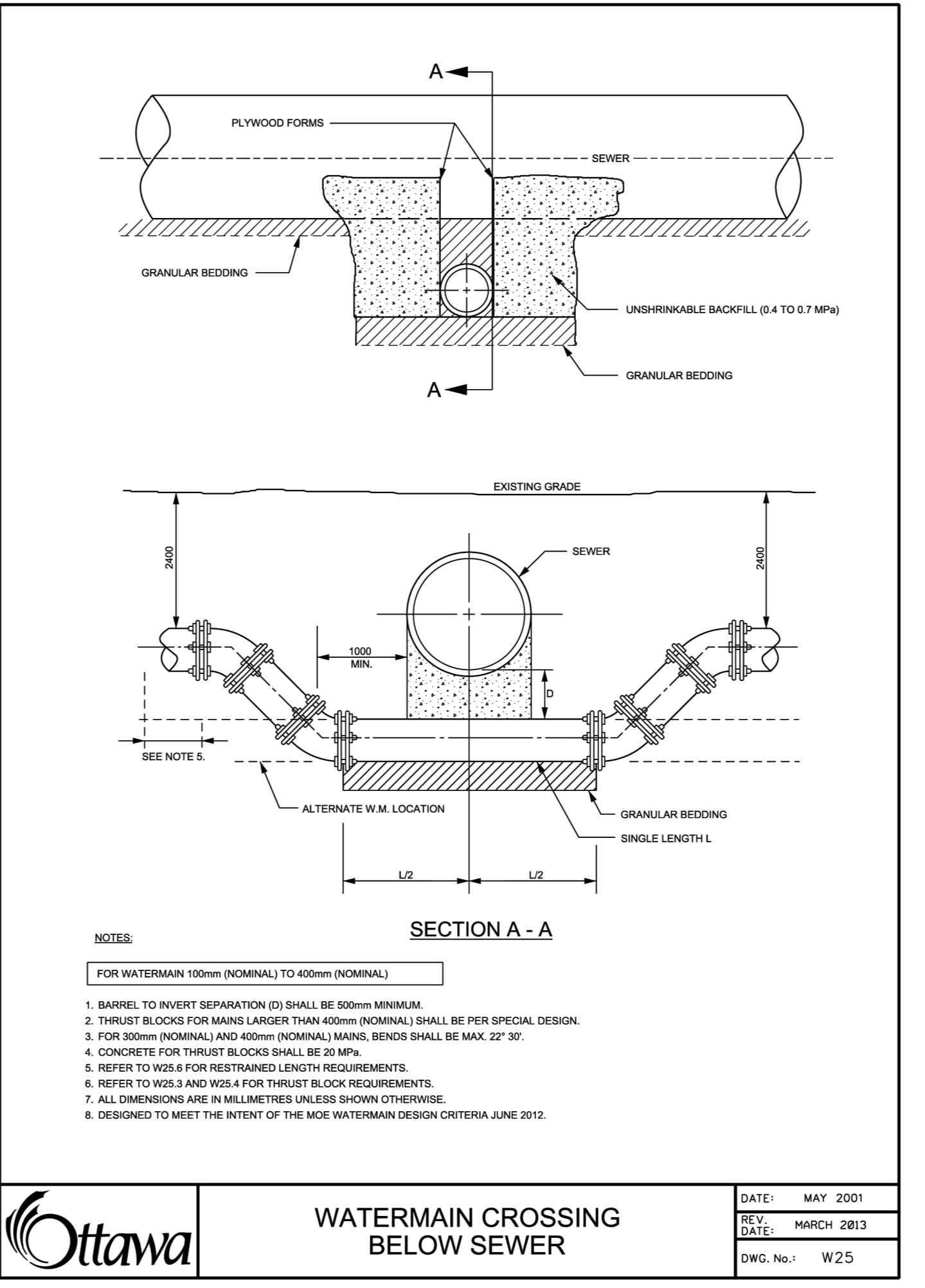
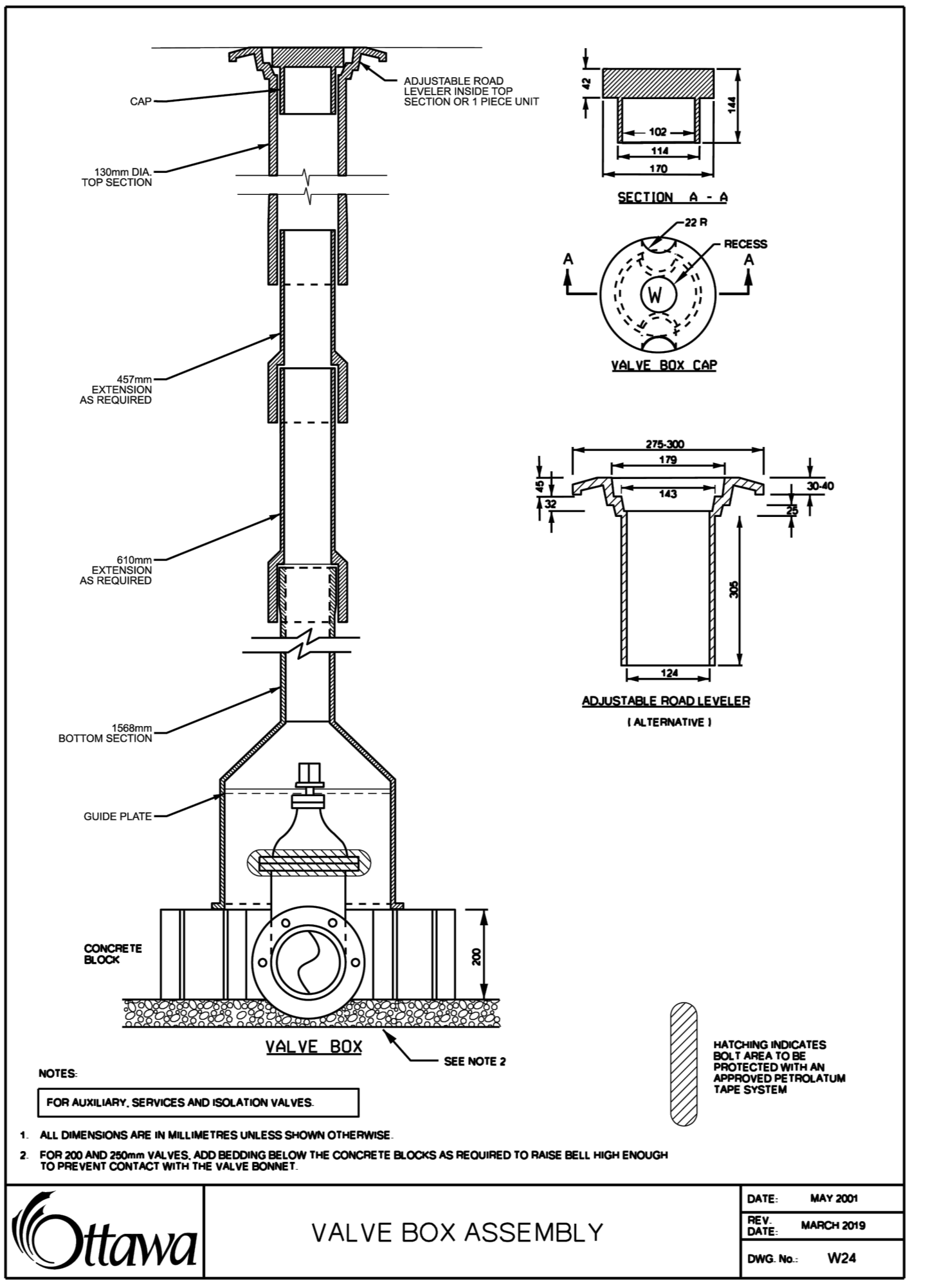
**INSULATION REFERENCE TABLE**

DISTANCE FROM C.S. OR U.V. WALL	REQUIRED INSULATION THICKNESS (TABLE 2.2)
2400 - 3000 mm	50 mm
3000 - 3500 mm	75 mm
3500 - 4000 mm	100 mm
4000 - 5000 mm	125 mm

**NOTES:**

- FOR WATERMANS & SERVICES IN PROXIMITY TO EXISTING MAINTENANCE HOLES OR VENTS, ETC., INSTALL TO THE WATERMAIN.
- INSULATION SHALL EXTEND 3000 mm EACH WAY FROM THE ENDS OF THE STRUCTURE.
- STAGGER JOINTS OF MULTIPLE SHEETS.
- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE.
- INSULATION CAN BE AT EITHER LOCATION OR BOTH.

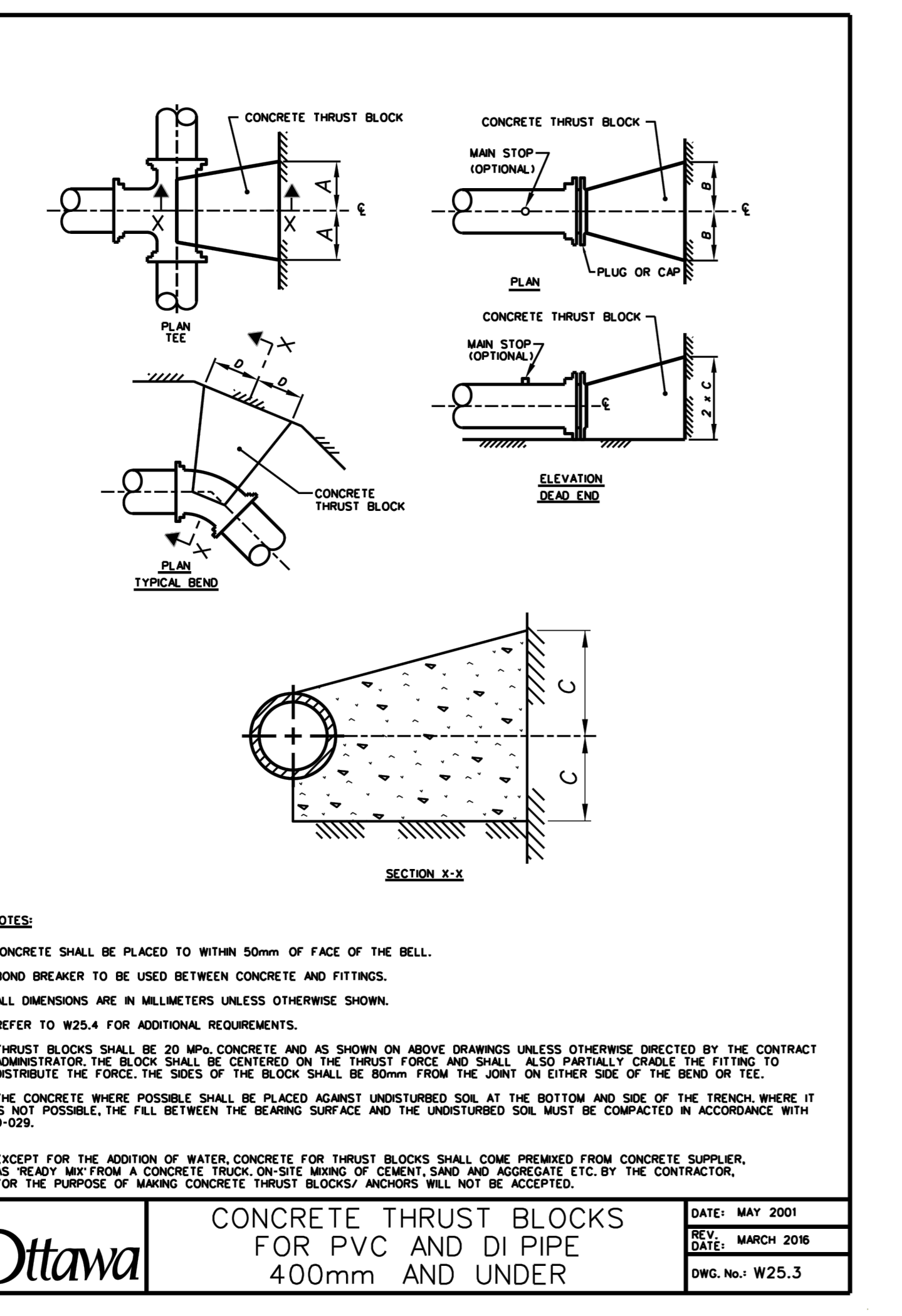
**Ottawa** THERMAL INSULATION OF WATERMANS AT OPEN STRUCTURES  
DATE: MAY 2021  
REV: MARCH 2018  
DWG. No.: W25.3



*Andrew McCreight*

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DEPARTMENT, CITY OF OTTAWA

**APPROVED**  
By Andrew McCreight at 10:17 am, Oct 19, 2023



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

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

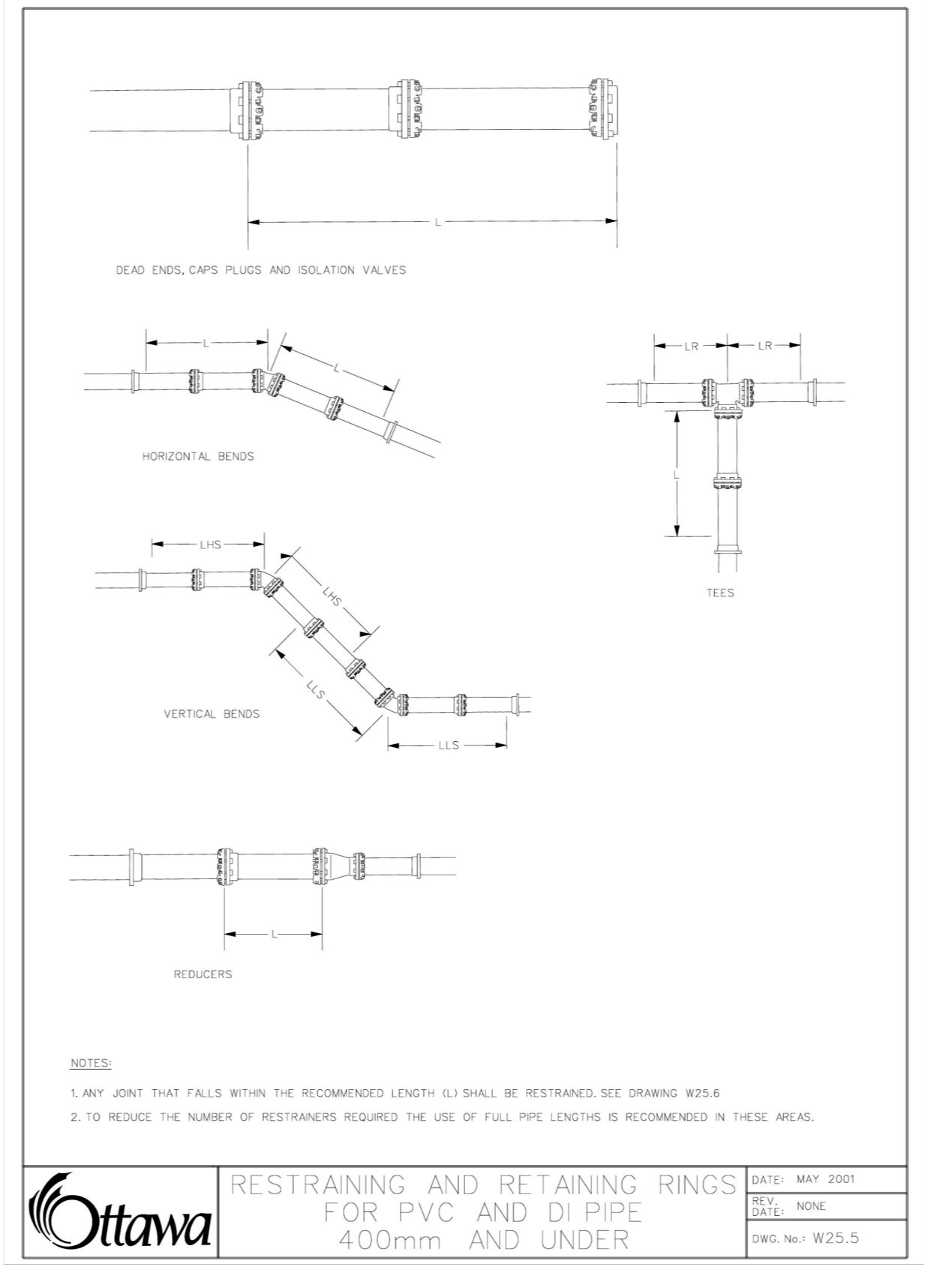
3. SOIL DESCRIPTION: SANDS, GRAVELS AND GRAVEL-SAND MIXTURES, LITTLE OR NO FINES.  
**SOILS WITH TYPICAL BEARING STRENGTH OF 300 KPa AND OVER**

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:**

- THE ABOVE THRUST BLOCK DIMENSIONS MEET OR EXCEED THE WATERMAIN DESIGN CRITERIA FOR FUTURE ALTERNATIONS AUTHORIZED UNDER A DRAWING WATER WORKS PERMIT.
- THE ASSUMPTIONS MADE FOR THE ABOVE CALCULATIONS ARE AS FOLLOWS:
  - IN MAXIMUM OPERATING PRESSURE OF 100 psig
  - IN MAXIMUM SURGE PRESSURE WITH A LOW VELOCITY CHANGE OF 18 psig
  - IN MAXIMUM SURGE PRESSURE WITH A LOW VELOCITY CHANGE OF 18 psig
  - OR 115 psig (115 psig FOR CLASS 52 DI AND FOR PVC MAX. SURGE IS 95 psig)
- FOR SOFTENING CALCULATIONS: A TEST PRESSURE OF 180 psig AND A SAFETY FACTOR OF 1.8 SHALL BE USED (WHICH RESULTS IN 225 psig MAXIMUM PRESSURE).
- TYPE 4 TRENCH BEDDING.
- DEPTH TO BENT 2.4 METRES EXCEPT FOR VERTICAL BENDS WHERE THE HIGH SIDE IS AT 1.8 METRES.
- EMBEDMENT MATERIAL GRANULAR A WITH CHARACTERISTICS OF ASTM D2459 GP.
- IF SOILS ARE DESCRIBED AS POORLY SORTED GRAVELS AND SAND-GRAVEL MIXTURES WITH LITTLE OR NO FINES.
- (U) MUST BE OF SOLID PIPE WITHOUT JOINTS, FITTINGS, ETC.
- THE TABLES APPLY TO BOTH DUCTILE IRON AND PVC, WHERE ONE LENGTH EXCEEDED THE OTHER THE LONGER LENGTH WAS USED.
- RESTRAINED LENGTHS ARE IN METRES.

**Ottawa** THRUST BLOCK DIMENSION TABLES FOR PVC AND DI PIPE 400mm AND UNDER  
DATE: MAY 2021  
REV: MARCH 2018  
DWG. No.: W25.4



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

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

SMALLER DIAMETER (UNRESTRAINED)	LARGER DIAMETER SIDE (TO BE RESTRAINED)				
	100mm	150mm	200mm	250mm	300mm
100mm	N/A	3	6	8	10
150mm	N/A	N/A	4	6	9
200mm	N/A	N/A	N/A	3	6
250mm	N/A	N/A	N/A	N/A	4
300mm	N/A	N/A	N/A	N/A	N/A
400mm	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
---	---	---	---	----	----	----

**VERTICAL BENDS**

LENGTH THRU SIDE - L	3	4	5	6	7	9
LENGTH LOW SIDE - LLS	1.5	2	2.5	3	3.5	4.5

**TEES**

LENGTH ALONG THE BRANCH - L	1	1	1	1	1	1
LENGTH ALONG THE RUN - Lr	3	3	3	3	3	3

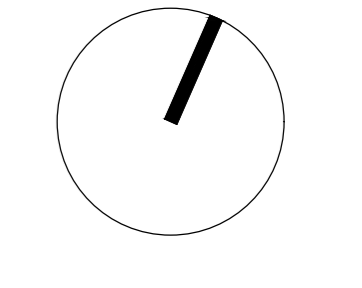
**HORIZONTAL BENDS**

11.25, 22.5, AND 45 DEGREE BENDS	1	1.5	1.5	2	2	2.5
----------------------------------	---	-----	-----	---	---	-----

**NOTES:**

- THE ABOVE RESTRAINED LENGTHS MEET OR EXCEED THE WATERMAIN DESIGN CRITERIA FOR FUTURE ALTERNATIONS AUTHORIZED UNDER A DRAWING WATER WORKS PERMIT.
- THE ASSUMPTIONS MADE FOR THE ABOVE CALCULATIONS ARE AS FOLLOWS:
  - IN MAXIMUM OPERATING PRESSURE OF 100 psig
  - OR 115 psig (115 psig FOR CLASS 52 DI AND FOR PVC MAX. SURGE IS 95 psig)
- FOR SOFTENING CALCULATIONS: A TEST PRESSURE OF 180 psig AND A SAFETY FACTOR OF 1.8 SHALL BE USED (WHICH RESULTS IN 225 psig MAXIMUM PRESSURE).
- DEPTH TO BENT 2.4 METRES EXCEPT FOR VERTICAL BENDS WHERE THE HIGH SIDE IS AT 1.8 METRES.
- EMBEDMENT MATERIAL GRANULAR A WITH CHARACTERISTICS OF ASTM D2459 GP.
- IF SOILS ARE DESCRIBED AS POORLY SORTED GRAVELS AND SAND-GRAVEL MIXTURES WITH LITTLE OR NO FINES.
- (U) MUST BE OF SOLID PIPE WITHOUT JOINTS, FITTINGS, ETC.
- THE TABLES APPLY TO BOTH DUCTILE IRON AND PVC, WHERE ONE LENGTH EXCEEDED THE OTHER THE LONGER LENGTH WAS USED.
- RESTRAINED LENGTHS ARE IN METRES.

**Ottawa** TABLES OF RESTRAINED LENGTHS FOR PVC AND DI PIPE 400mm AND UNDER  
DATE: MAY 2021  
REV: MARCH 2018  
DWG. No.: W25.6

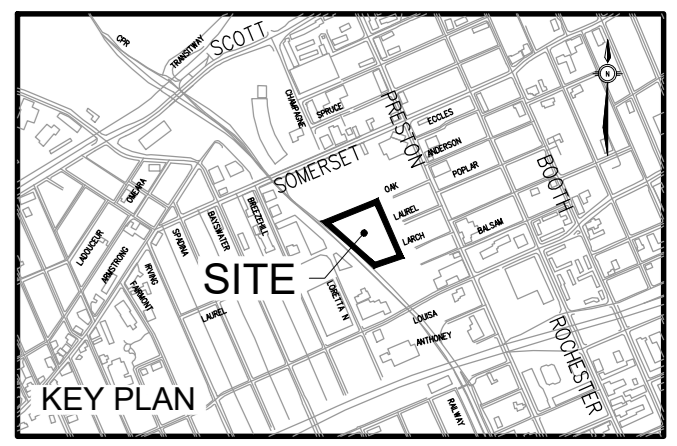


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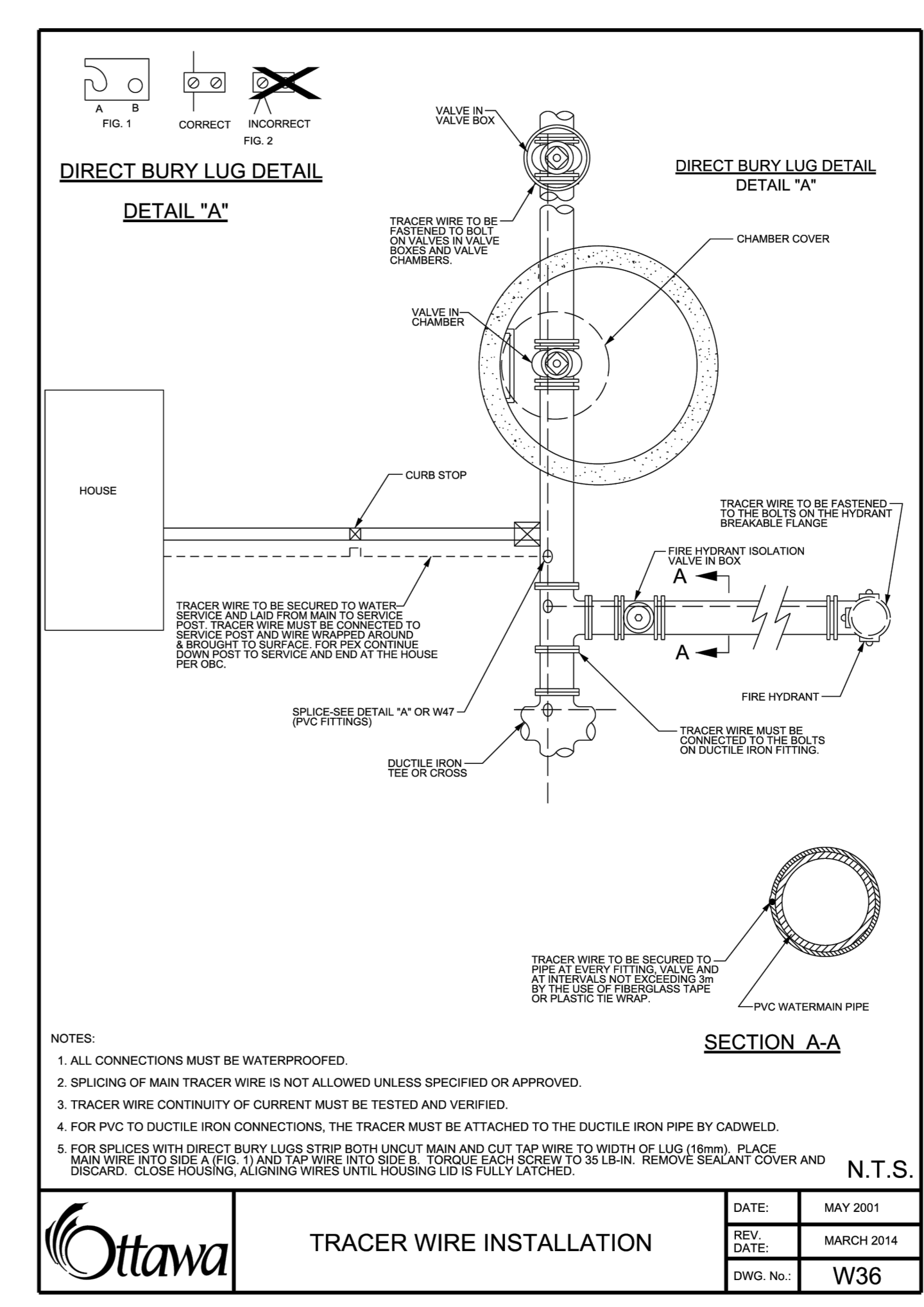
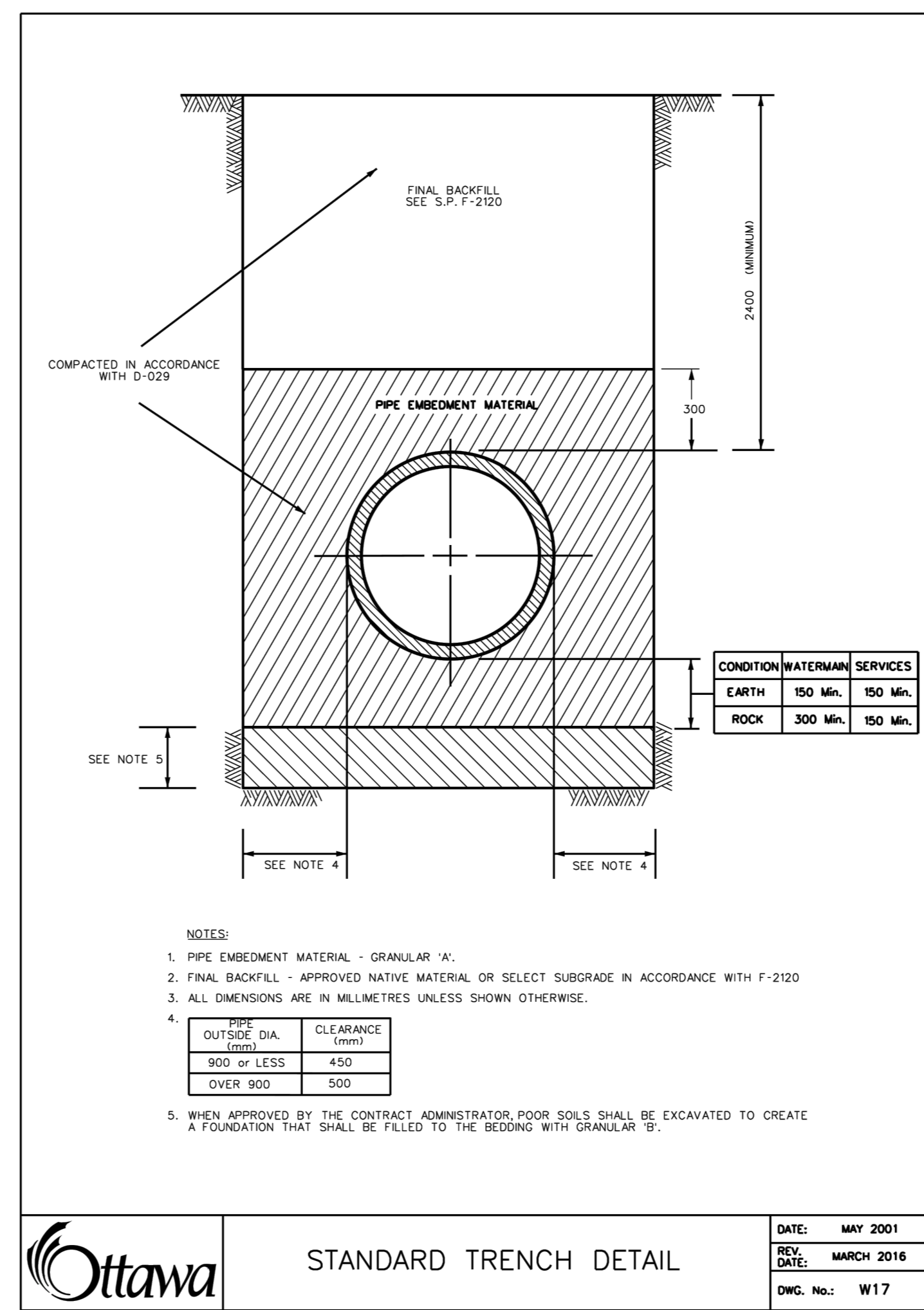
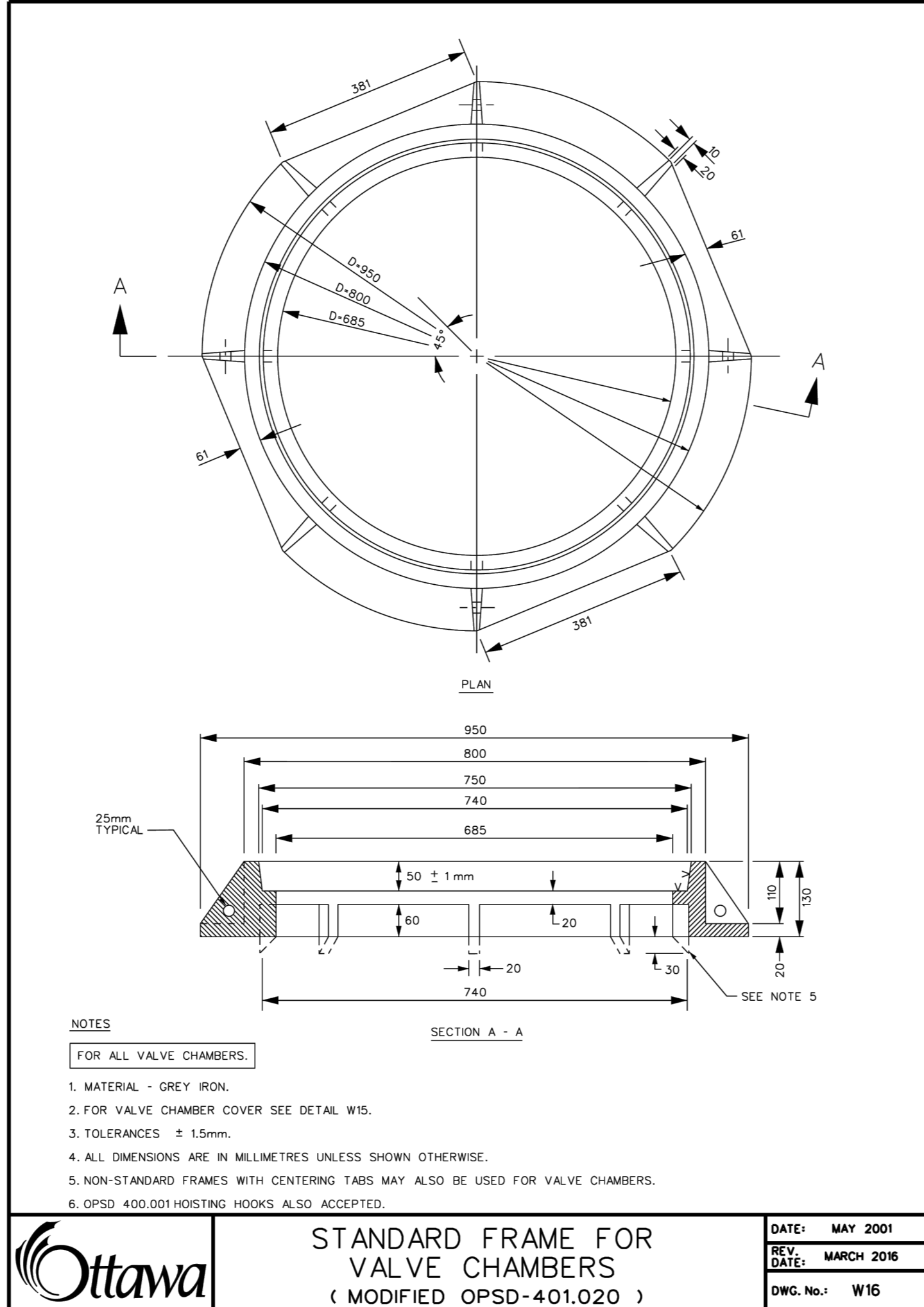
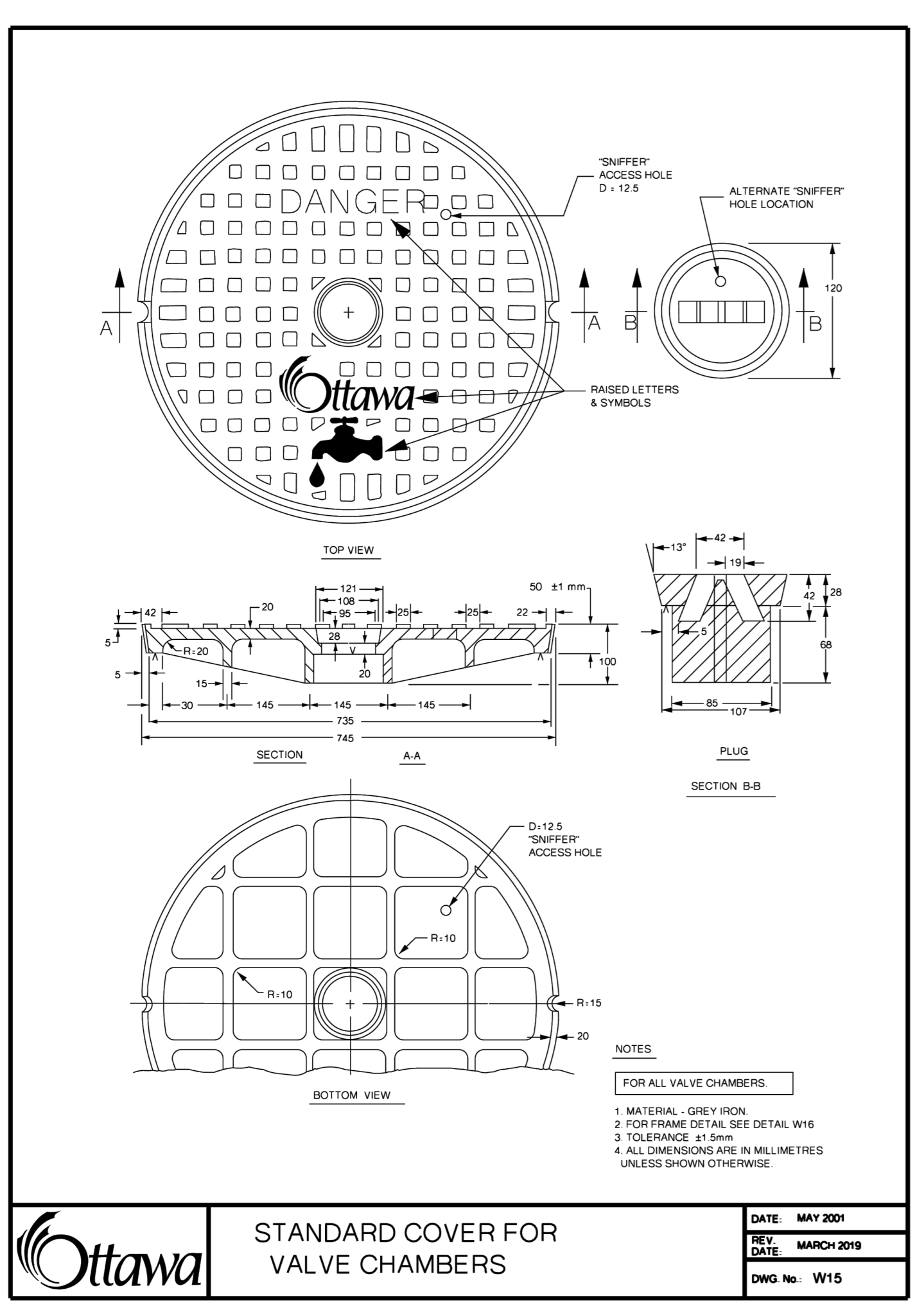
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**GLADSTONE VILLAGE PHASE 1**  
933 Gladstone Avenue - Phase 1  
21006



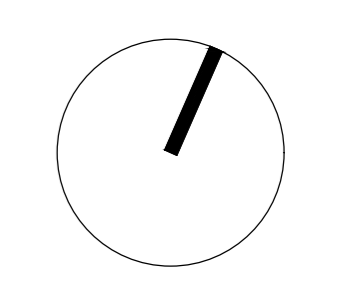
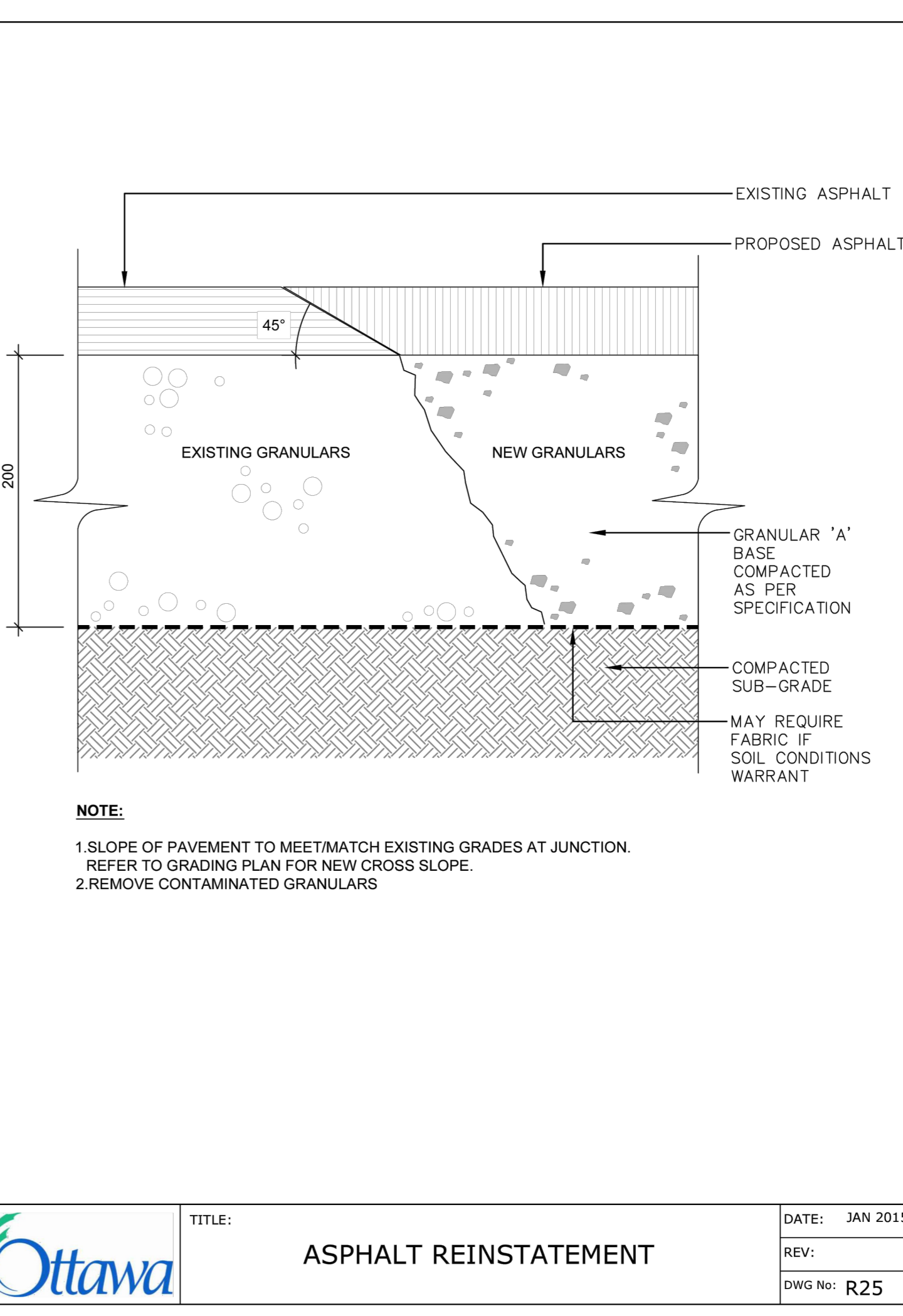
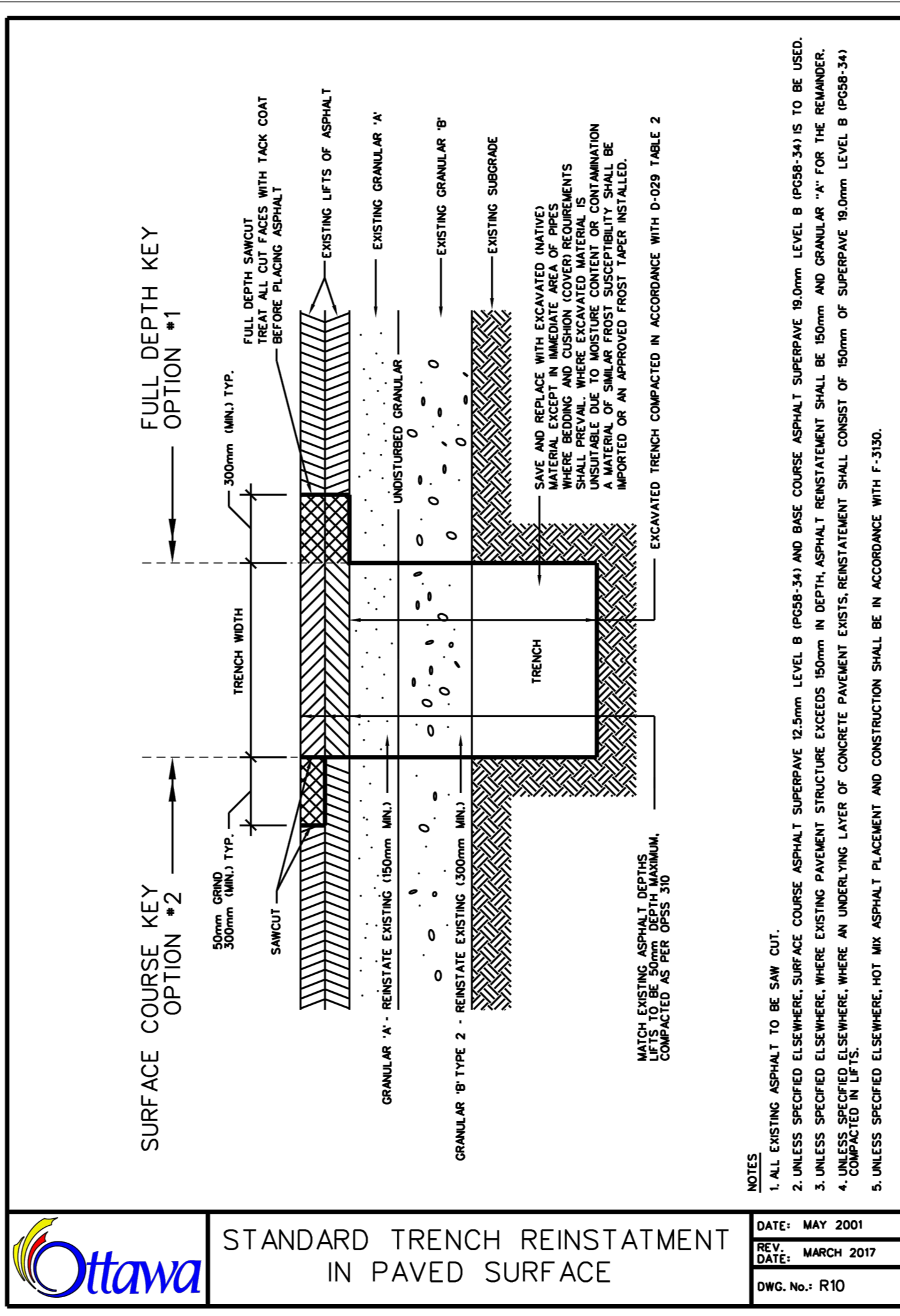
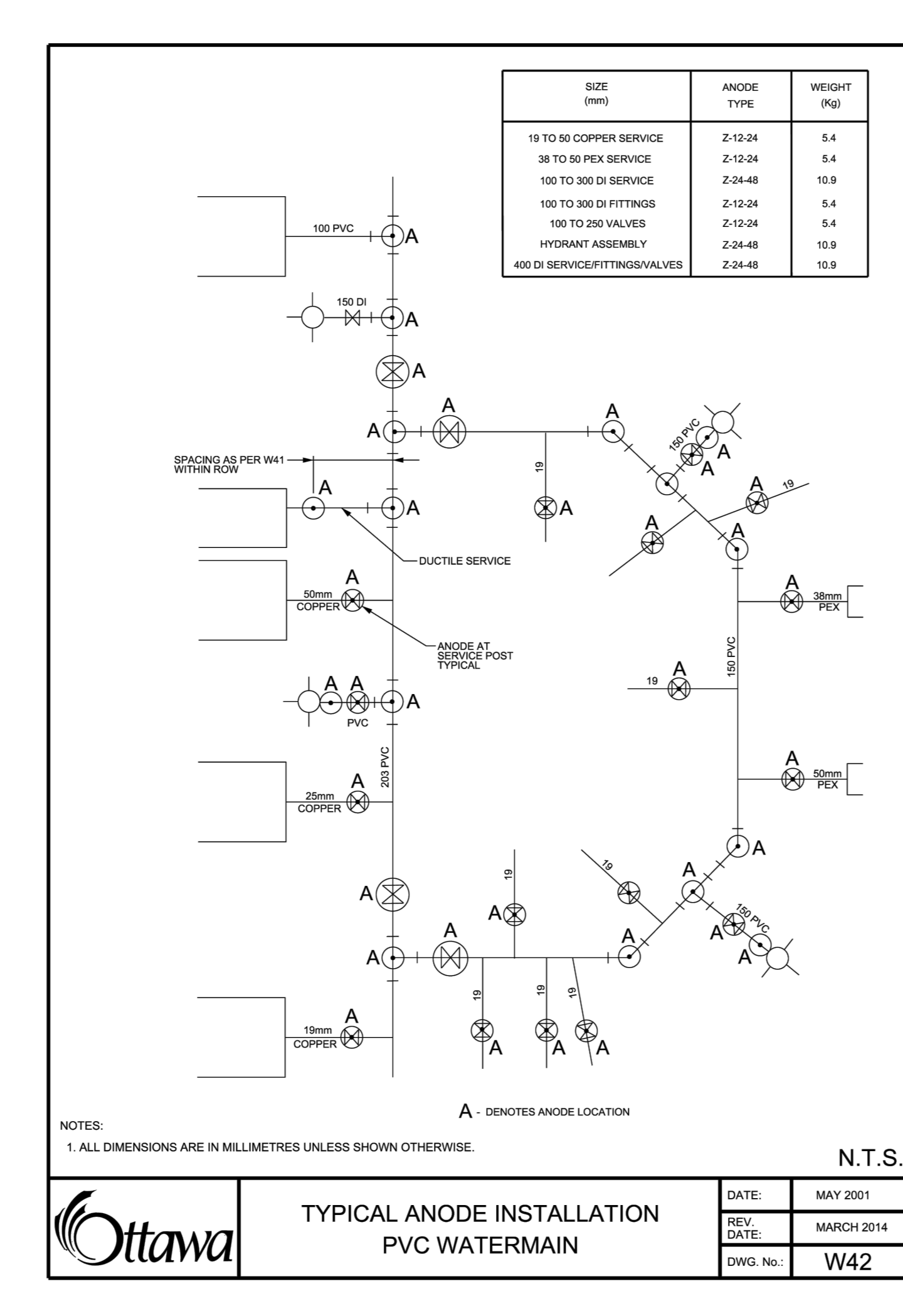
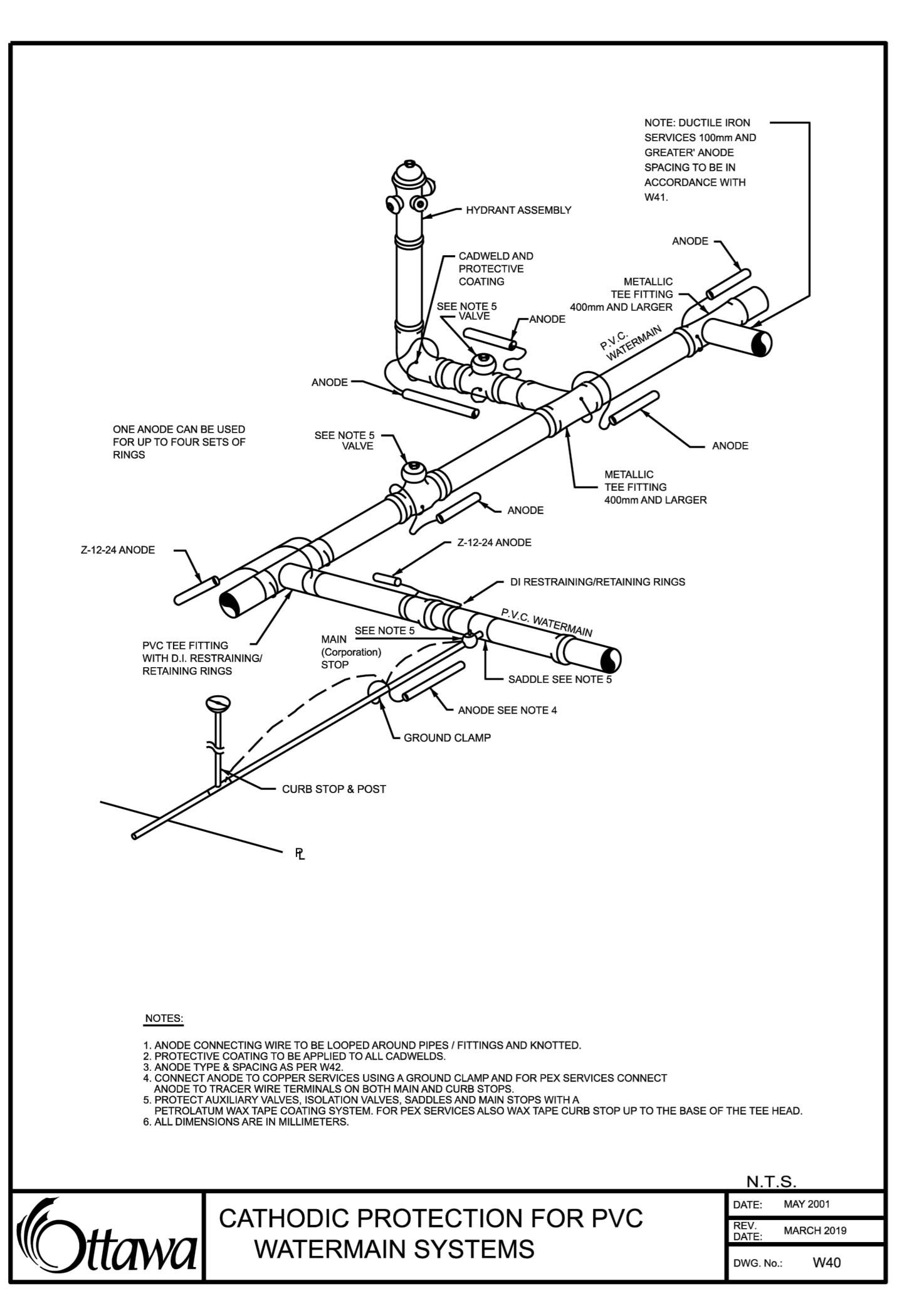
ISSUE

No.	Date	Description
1	2021 SEP 08	ISSUED FOR SITE PLAN APPROVAL
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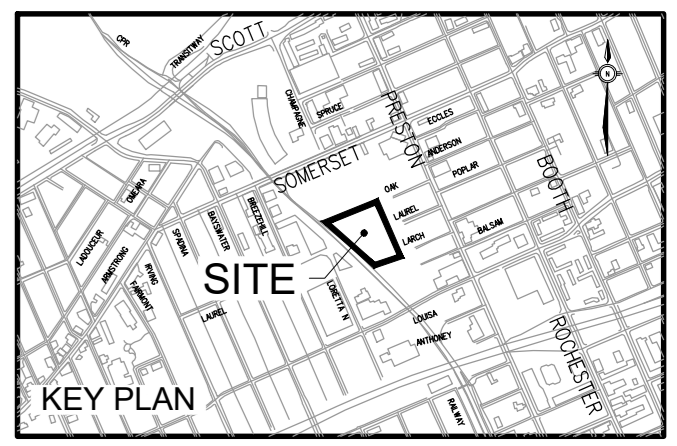
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**ANDREW MCCREIGHT**  
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PLANNING, REAL ESTATE & ECONOMIC DEVELOPMENT  
DEPARTMENT, CITY OF OTTAWA

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By Andrew McCreight at 10:17 am, Oct 19, 2023



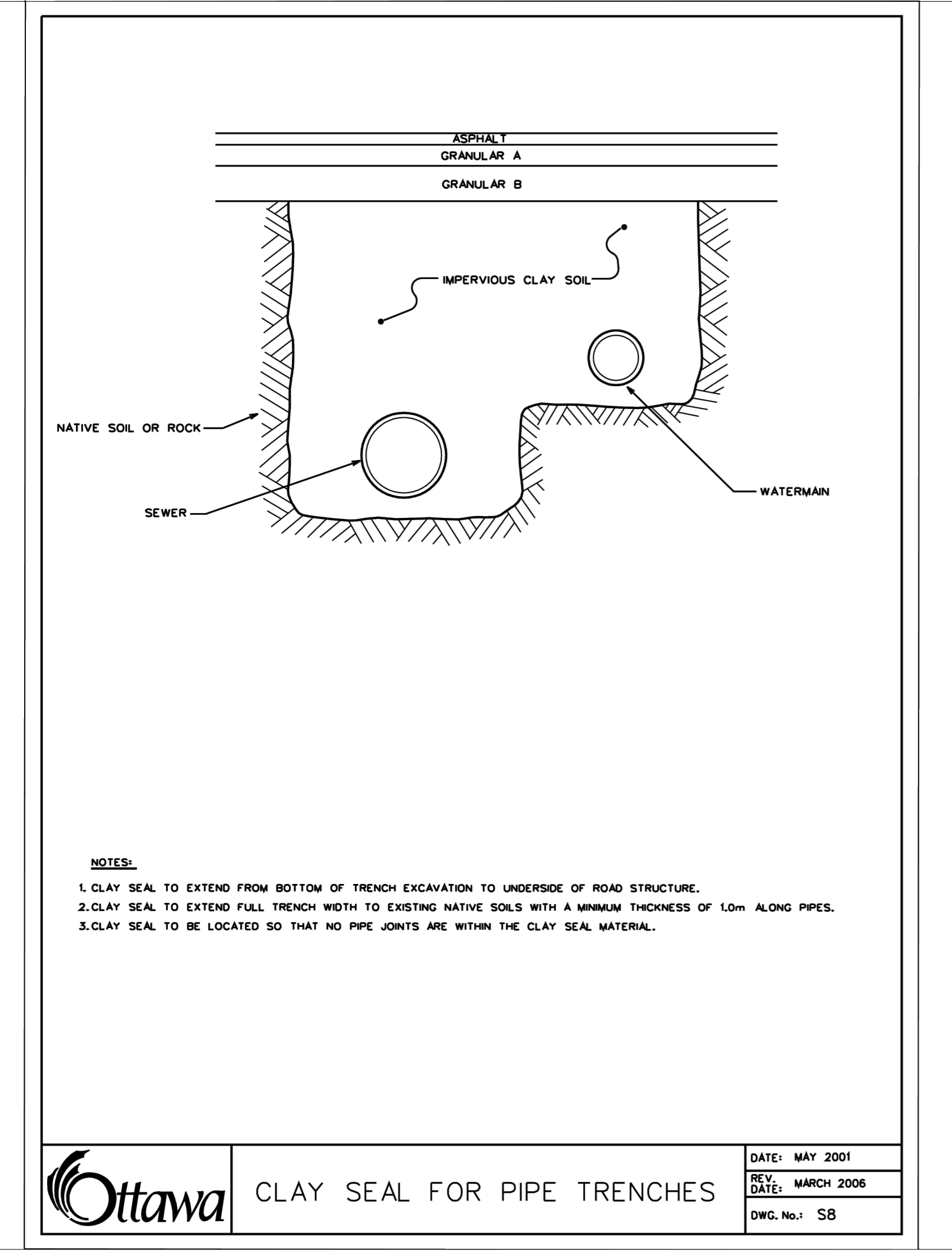
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933 Gladstone Avenue - Phase 1  
211006

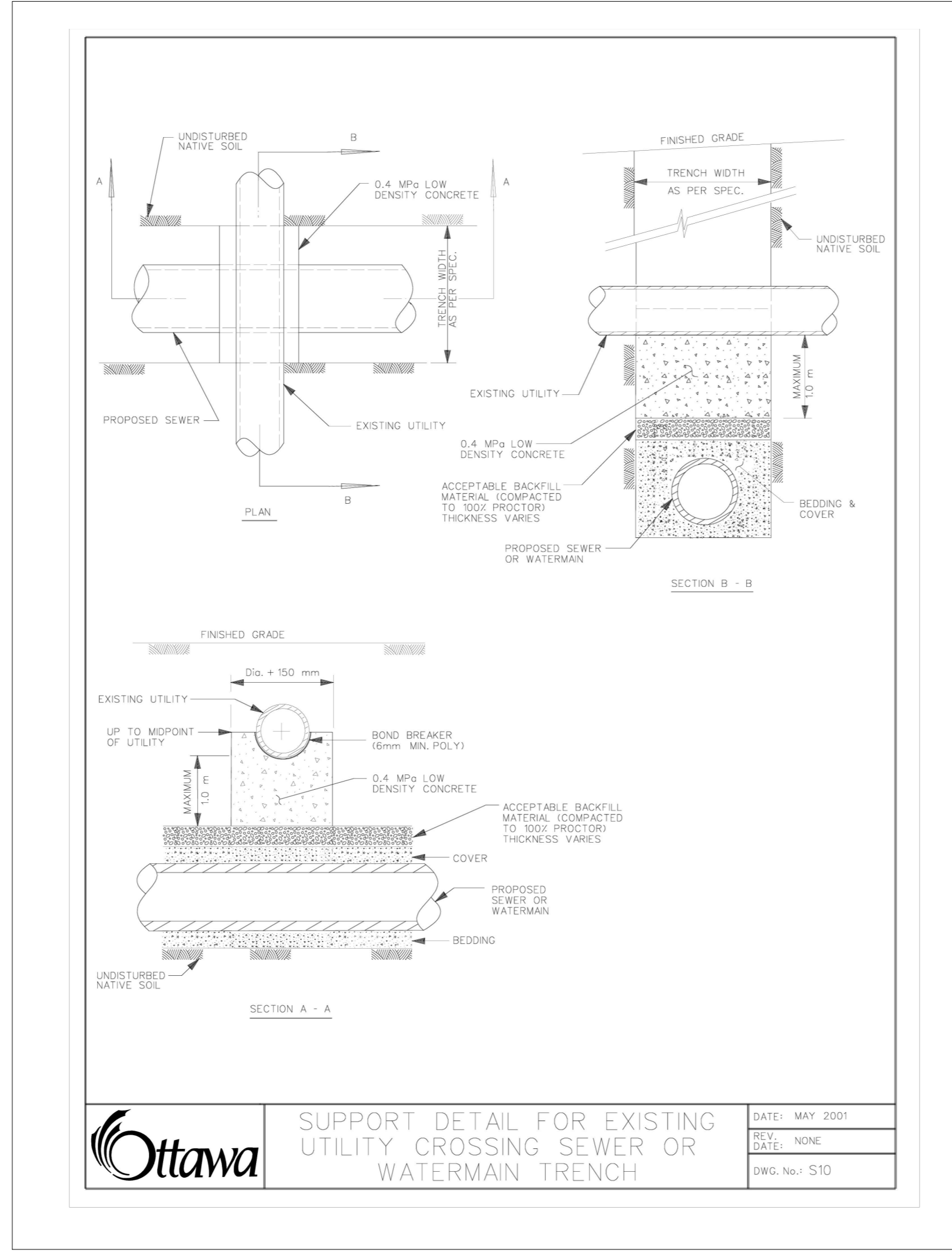


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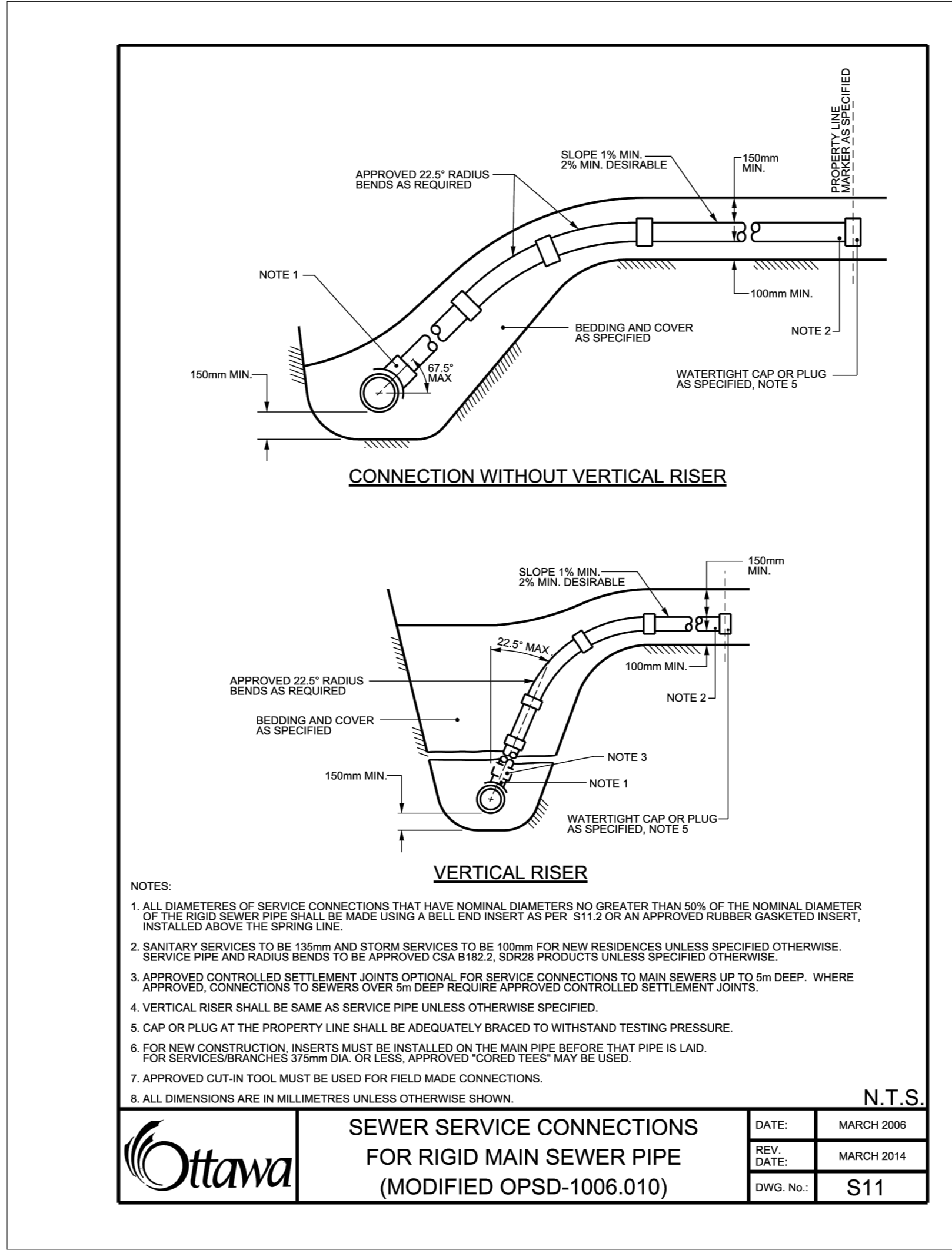
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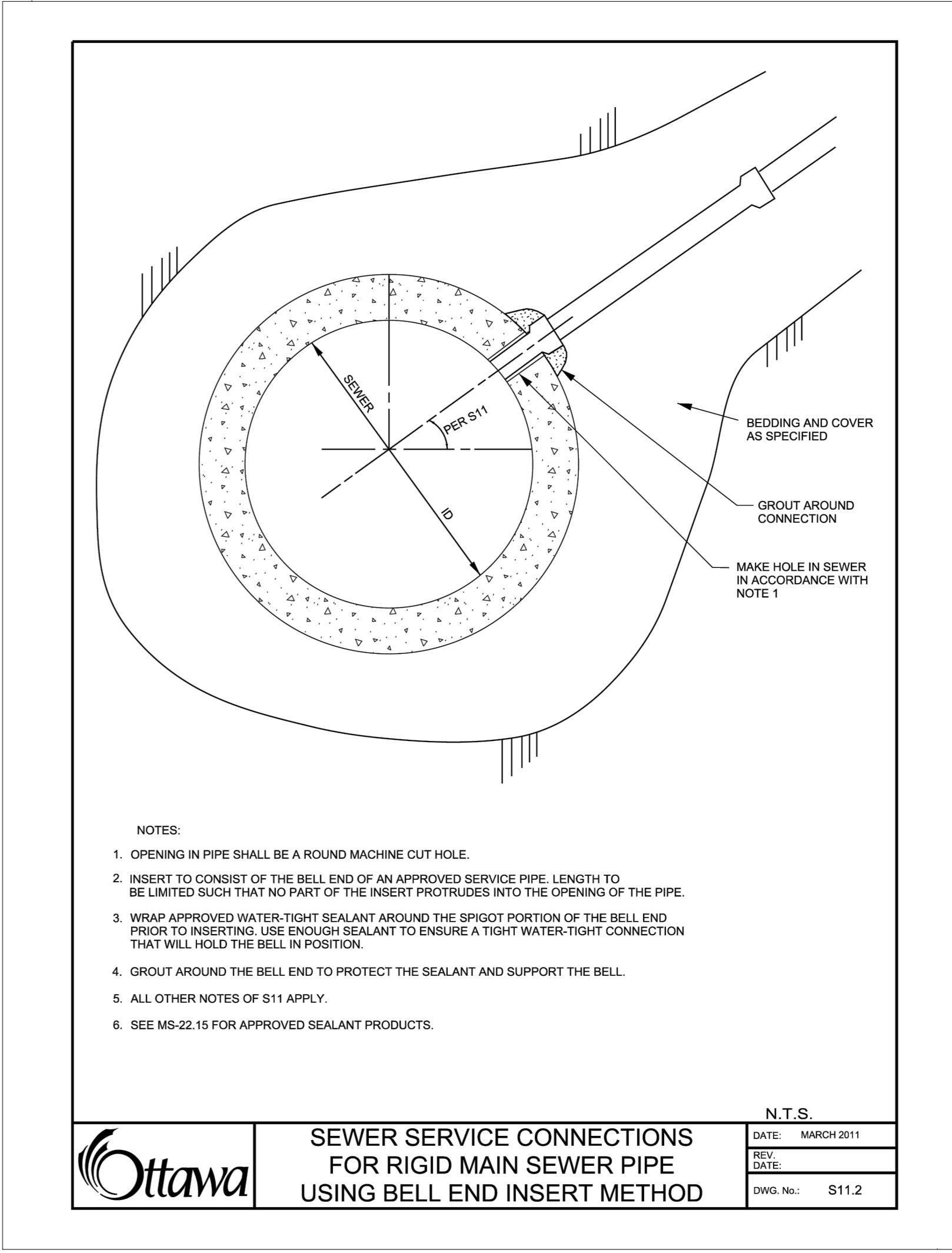
**Ottawa** CLAY SEAL FOR PIPE TRENCHES  
DATE: MAY 2001  
REV: MARCH 2006  
DWG. No.: SB



**Ottawa** SUPPORT DETAIL FOR EXISTING UTILITY CROSSING SEWER OR WATERMAIN TRENCH  
DATE: MAY 2007  
REV: 1996  
DWG. No.: SYD



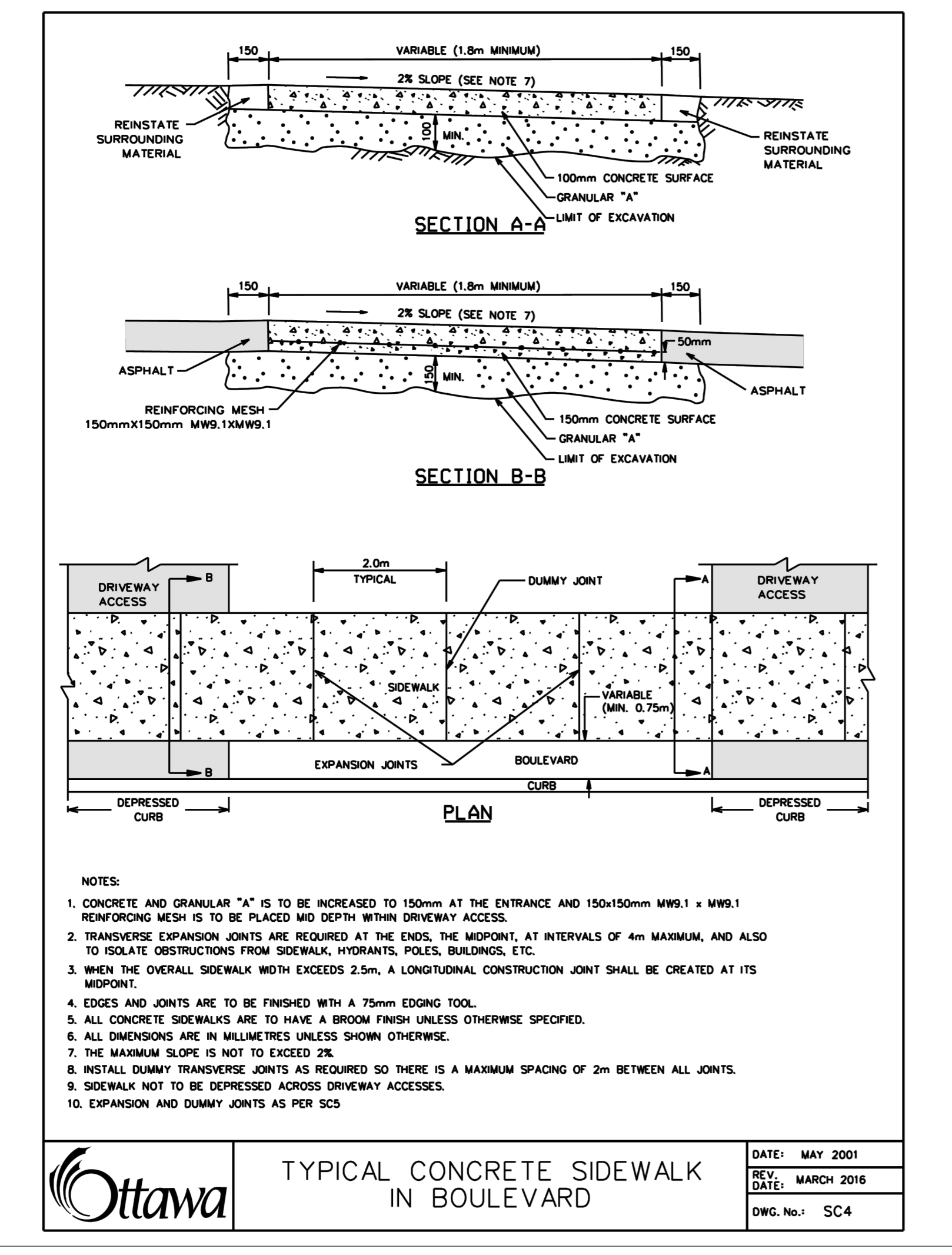
**Ottawa** SEWER SERVICE CONNECTIONS FOR RIGID MAIN SEWER PIPE (MODIFIED OPSD-1006.010)  
DATE: MARCH 2008  
REV: MARCH 2014  
DWG. No.: S11



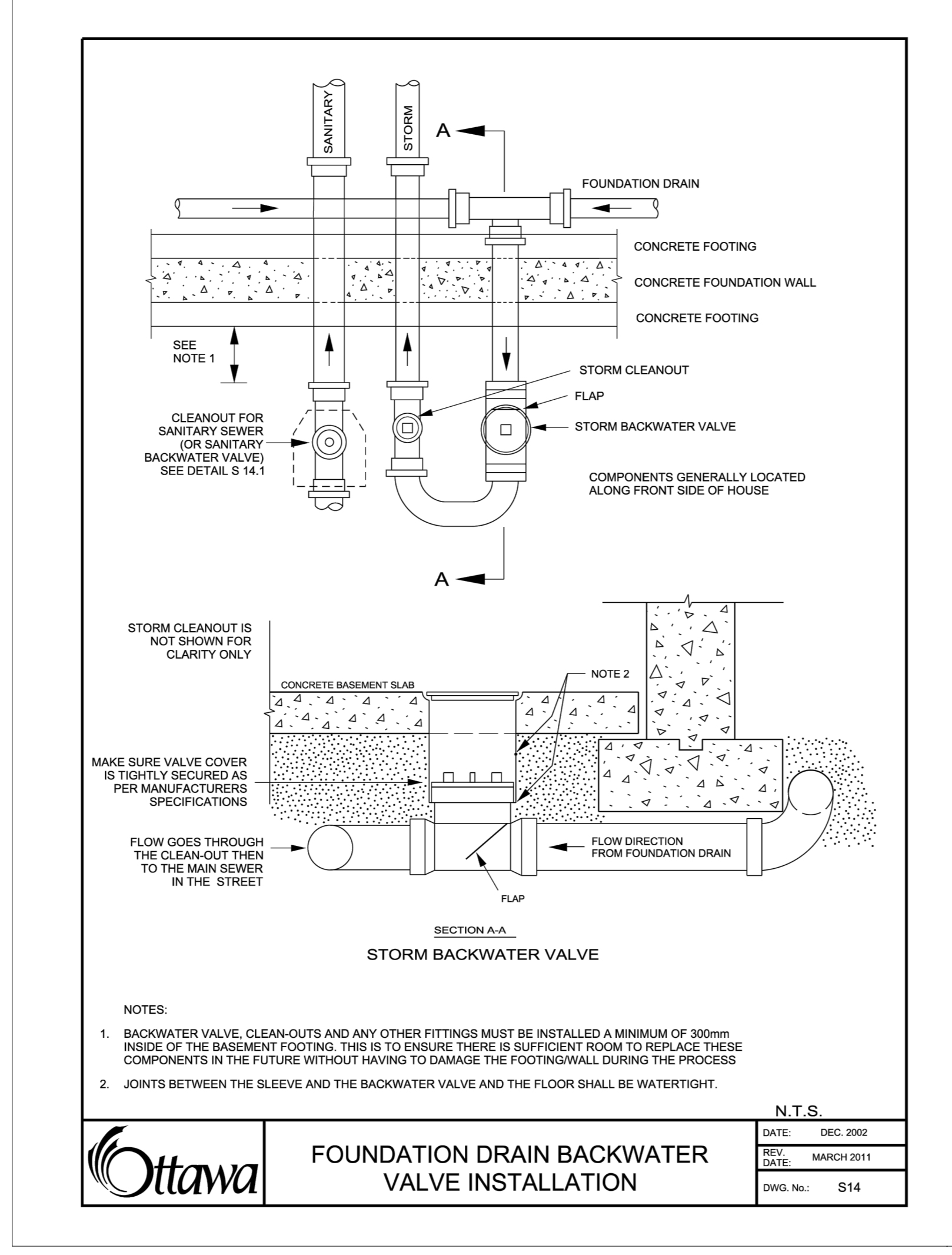
**Ottawa** SEWER SERVICE CONNECTIONS FOR RIGID MAIN SEWER PIPE USING BELL END INSERT METHOD  
DATE: MARCH 2011  
REV: S11.2  
DWG. No.: S11.2

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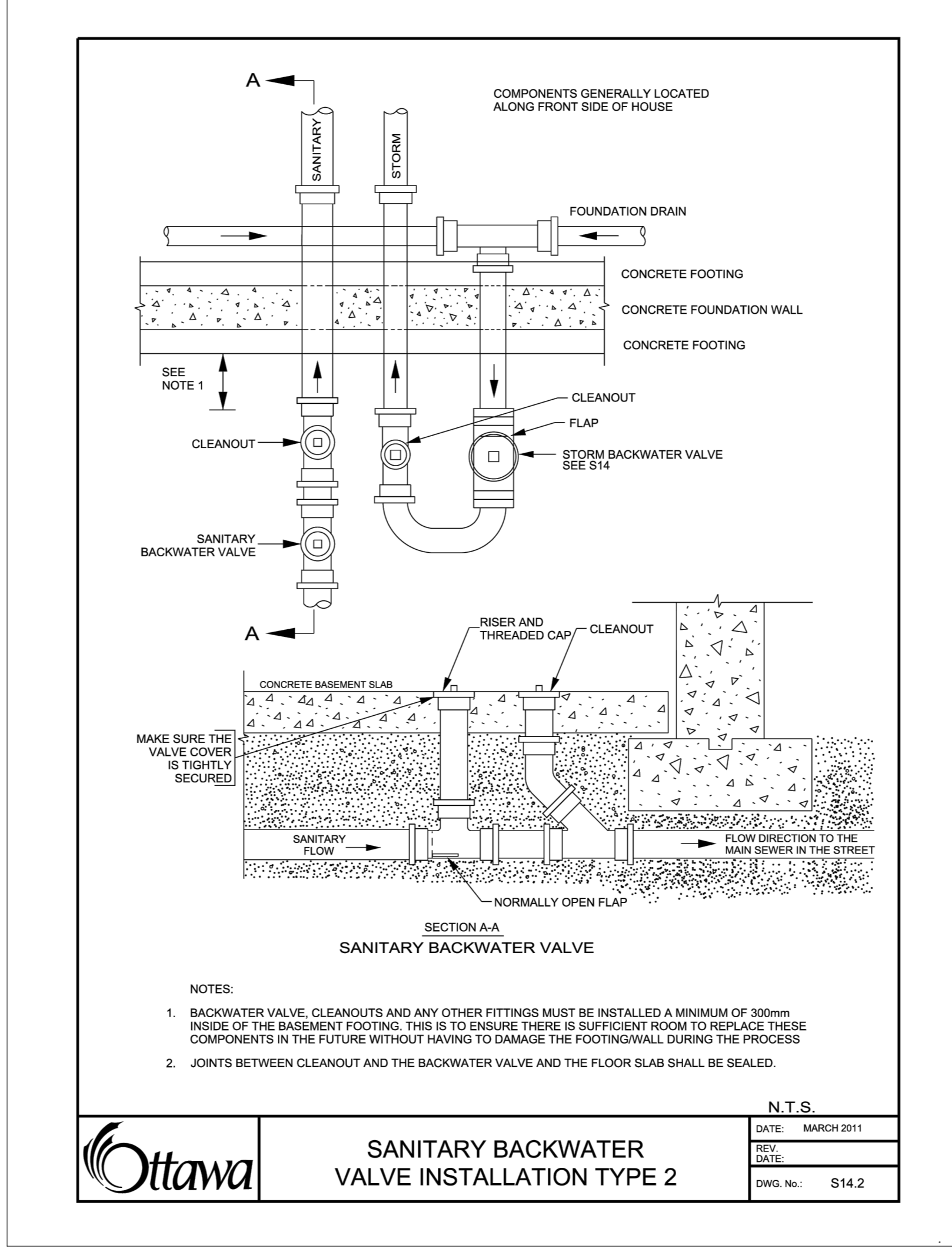
**APPROVED**  
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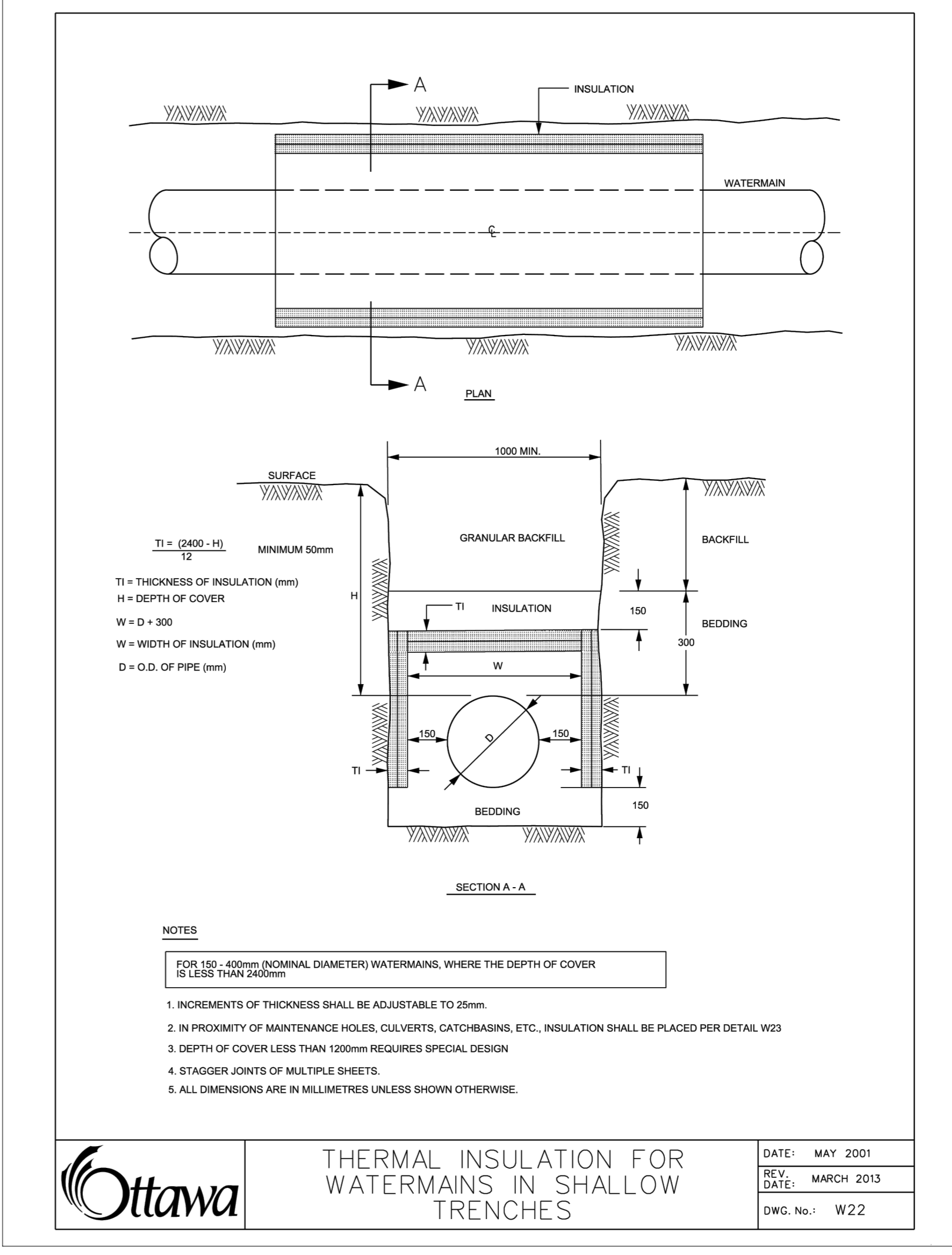
**Ottawa** TYPICAL CONCRETE SIDEWALK IN BOULEVARD  
DATE: MAY 2001  
REV: MARCH 2016  
DWG. No.: SC4



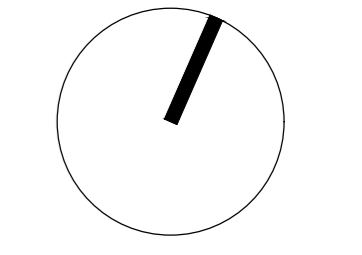
**Ottawa** FOUNDATION DRAIN BACKWATER VALVE INSTALLATION  
DATE: DEC 2002  
REV: MARCH 2011  
DWG. No.: S14



**Ottawa** SANITARY BACKWATER VALVE INSTALLATION TYPE 2  
DATE: MARCH 2011  
REV: S14.2  
DWG. No.: S14.2

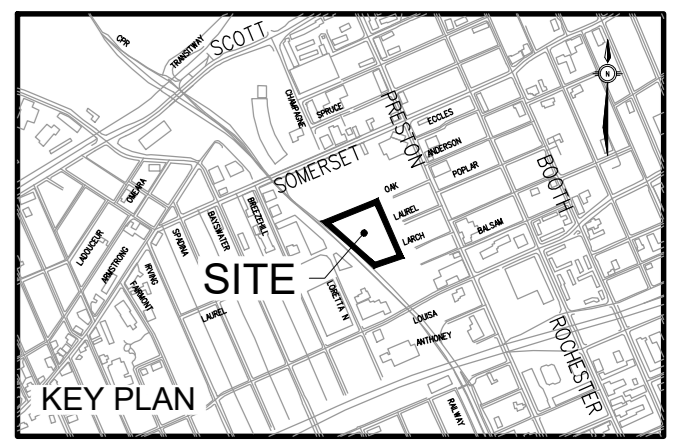


**Ottawa** THERMAL INSULATION FOR WATERMANS IN SHALLOW TRENCHES  
DATE: MAY 2001  
REV: MARCH 2013  
DWG. No.: W22



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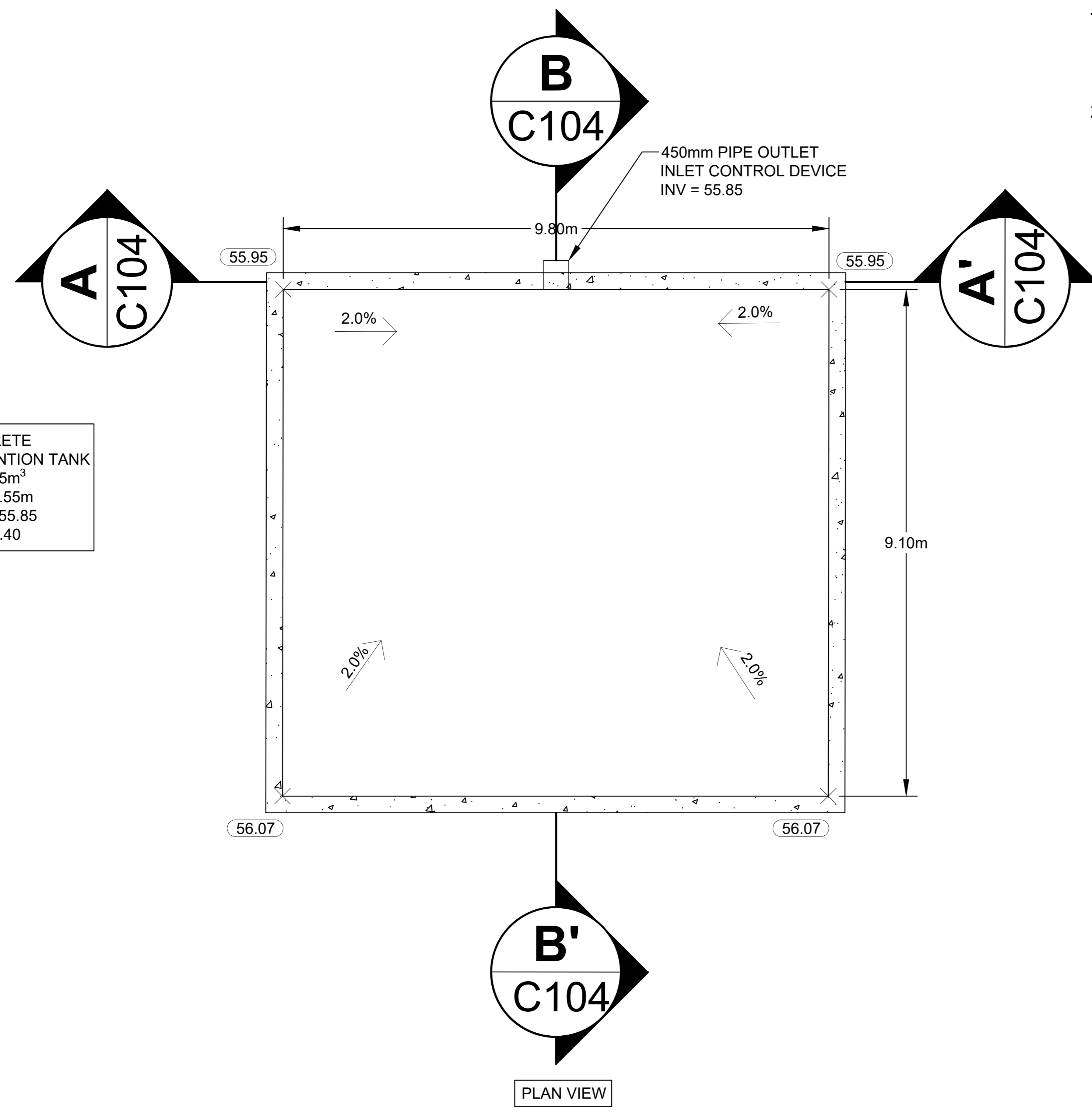


**DETAILS OF STORMWATER DETENTION TANK**

- NOTES:
- REFER TO STRUCTURAL/MECHANICAL FOR CONCRETE AND REINFORCING DESIGN, ACCESS LOCATIONS, PIPE INLET LOCATIONS, VENT LOCATIONS
  - REFER TO ICD TABLE BELOW FOR ALL CONTROLLED FLOW REQUIREMENTS

INLET CONTROL DEVICE DATA TABLE - 450mm PIPE OUTLET						
DESIGN EVENT	ICD TYPE	DIAMETER OF OUTLET PIPE (mm)	DESIGN FLOW (L/s)	WATER ELEVATION (m)	REQUIRED VOLUME (m <sup>3</sup> )	TOTAL VOLUME PROVIDED (m <sup>3</sup> )
1:2 YR	HYDROVEX 75VHV-1	450mmØ	3.3	57.38	89.6	280
1:100 YR	HYDROVEX 75VHV-1	450mmØ	11.3	59.00	274.7	280

REINFORCED CONCRETE STORMWATER DETENTION TANK  
GROSS VOLUME = 405m<sup>3</sup>  
OVERALL HEIGHT = 4.55m  
TANK BOTTOM INV = 55.85  
TANK TOP ELEV. = 60.40

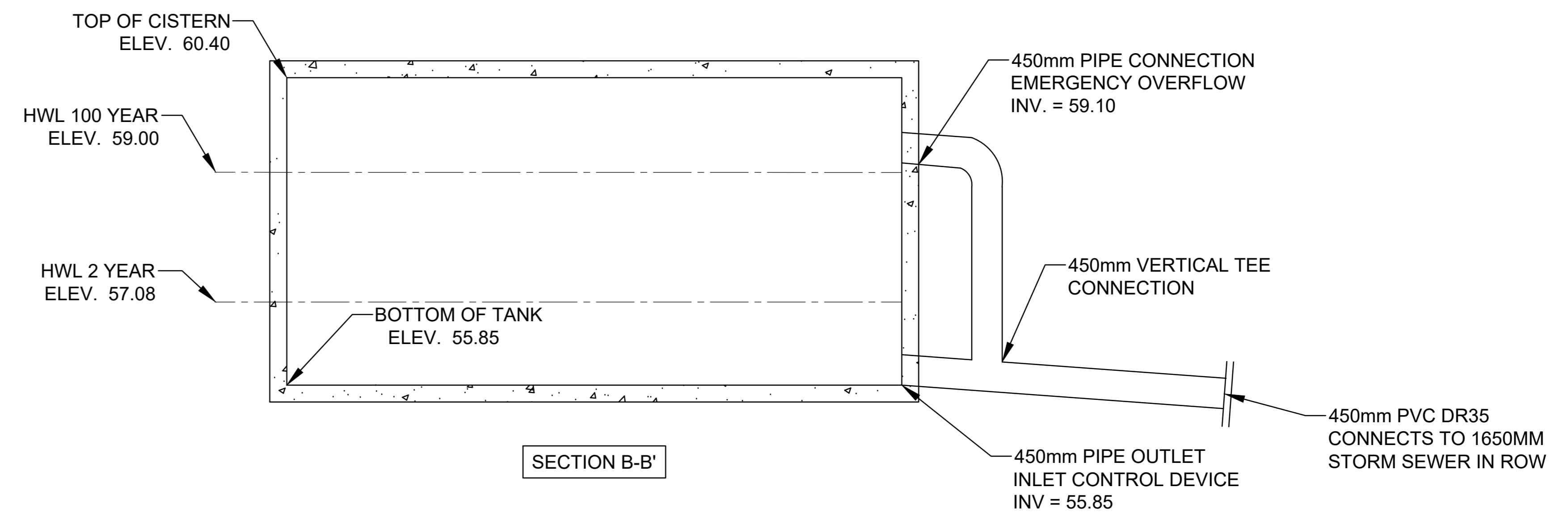
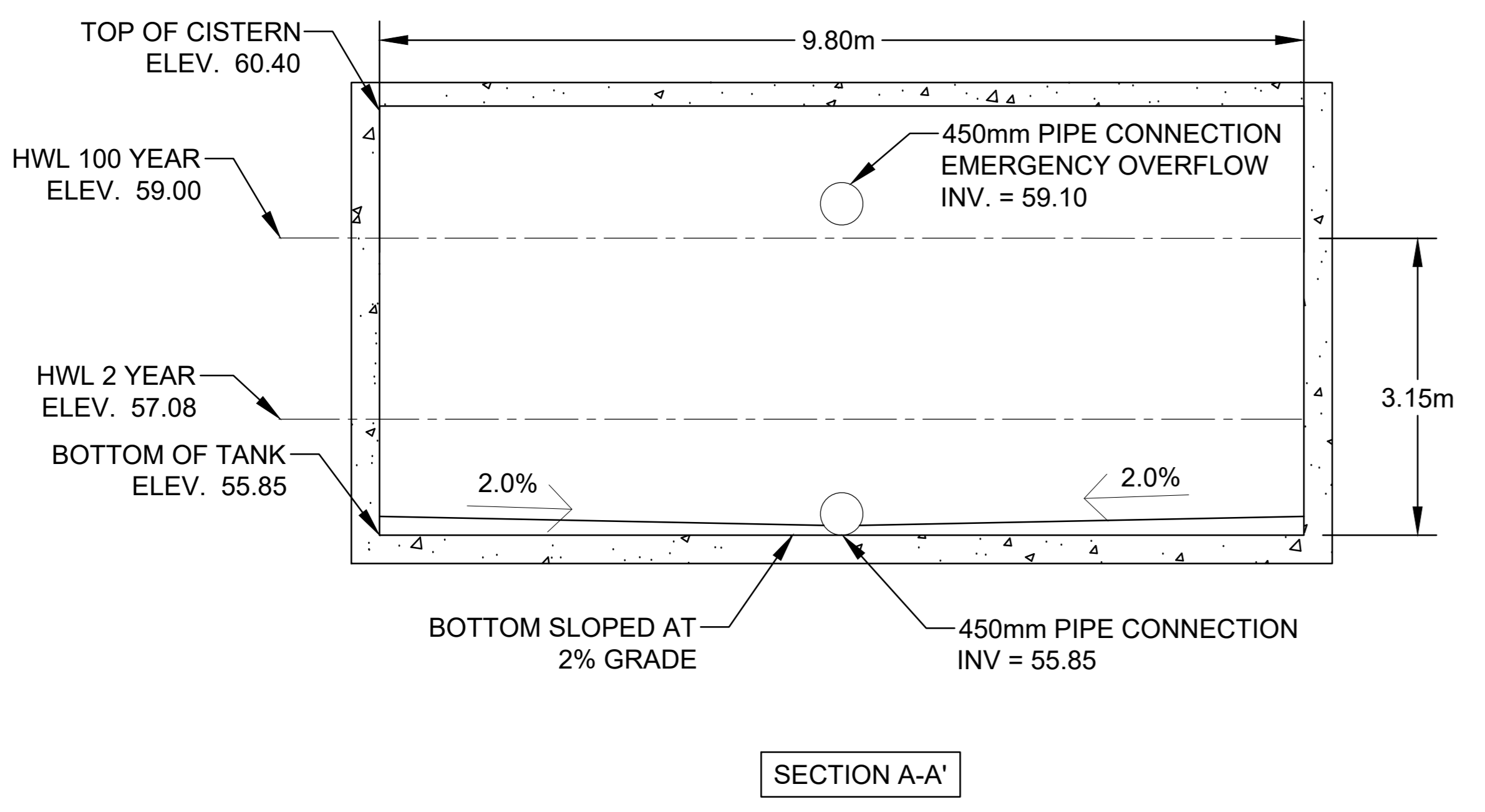


**LEGEND**

- PIPE OUTLET
- × (56.00) PROPOSED ELEVATION
- 2.0% → PROPOSED SLOPE DIRECTION
- ▬ CONCRETE WALL

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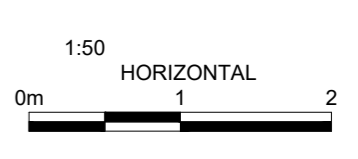


- ISSUED
- | No. | Date        | Description                             |
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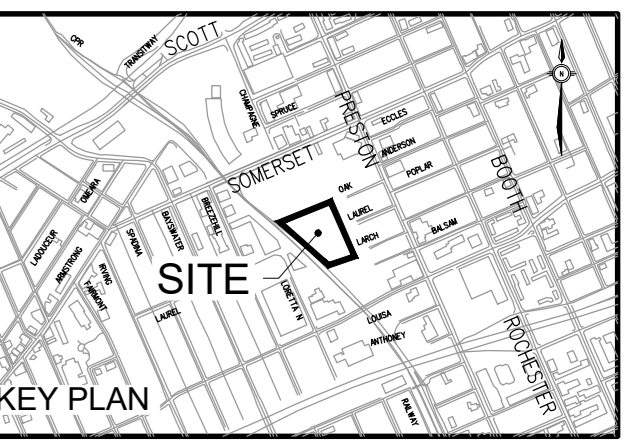


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**GLADSTONE VILLAGE PHASE 1**  
933 Gladstone Avenue - Phase 1  
211006



Scale: 1:50  
Project No: 210101900  
Date: 04/18/23



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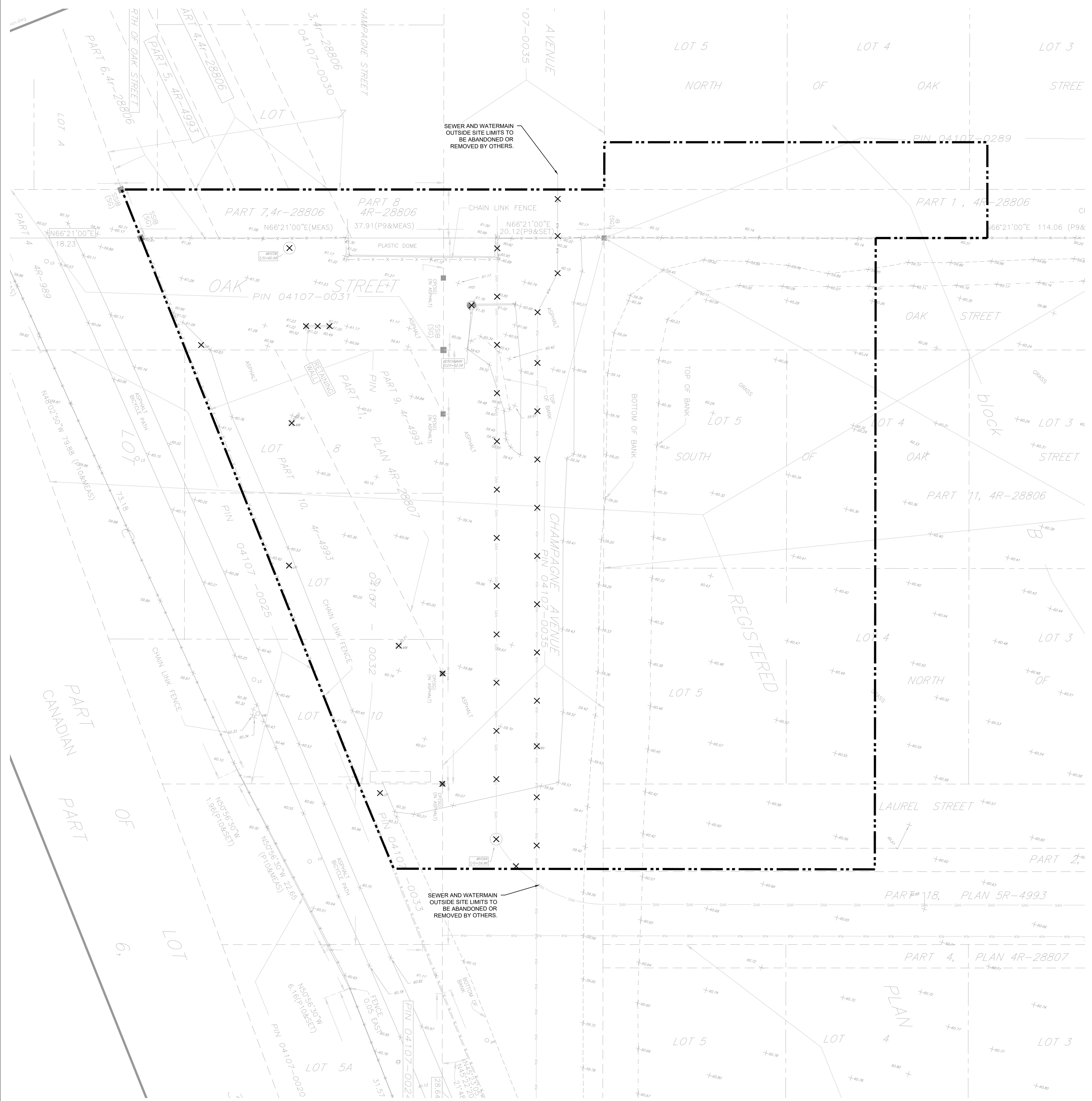
**LEGEND**

--- SITE BOUNDARY

× × × EXISTING WATERMAIN OR SEWER, VALVE CHAMBER, MAINTENANCE HOLE OR CATCH BASIN TO BE REMOVED OR ABANDONED (REMOVE IF WITH EXCAVATION LIMITS).

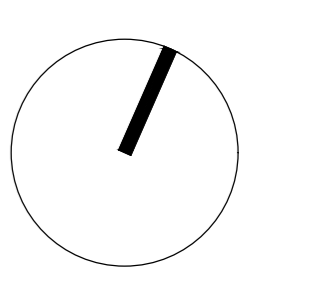
**REMOVALS**

1. COMPLETE ALL REMOVALS AND ABANDONMENT IN ACCORDANCE WITH OPSS MUN. 519
2. MONITORING WELL REMOVALS SHALL BE BY A LICENSED WELL DRILLING CONTRACTOR AND SHALL BE REGISTERED WITH MECP. ALL REMOVALS ARE TO BE COORDINATED WITH SUBDIVISION WORKS AS DIRECTED BY THE CLIENTS REPRESENTATIVE. IF SEWERS AND WATERMANS WITHIN SITE ARE REMOVED PRIOR TO THE SECTIONS OUTSIDE THE SITE BEING REMOVED BY OTHERS, CONSTRUCT A CONCRETE BULKHEAD OR PLUG WITHIN THE REMAINING PIPE AT THE SITE LIMIT TO PREVENT SETTLEMENT THROUGH BACKFILL ENTERING PIPE.
- 3.



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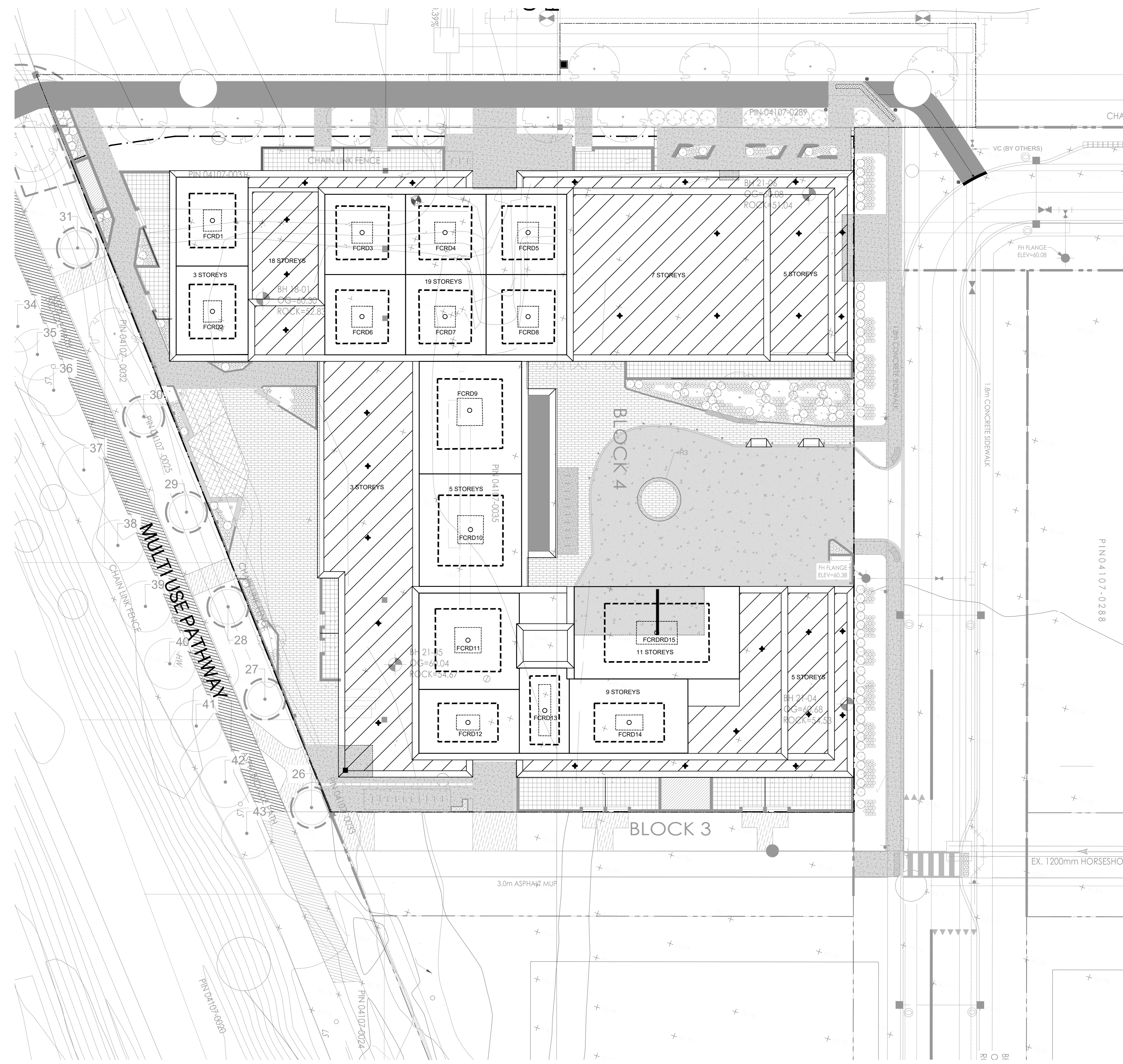
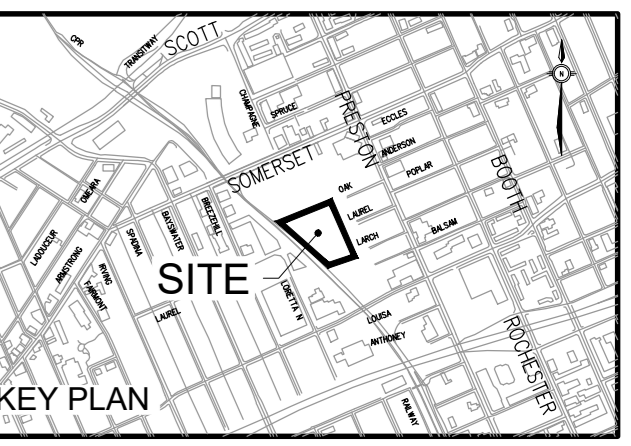
**GLADSTONE VILLAGE PHASE 1**  
933 Gladstone Avenue - Phase 1  
211006

REMOVALS PLAN

**C700**  
#18593

Scale: 1:200  
Project No: 210101900  
Date: 04/10/23





**LEGEND**

- FLOW CONTROLLED ROOF DRAIN
- UNCONTROLLED FLOW ROOF DRAIN
- AMENITY/OCCUPIABLE ROOF - NO FLOW CONTROL
- UNOCCUPIABLE ROOF - NO FLOW CONTROL
- AREA WITH UNCONTROLLED FLOW
- 2 YR=25mm DEPTH
- 100 YR=63mm DEPTH

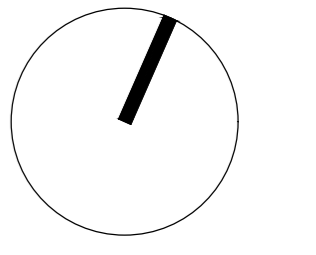
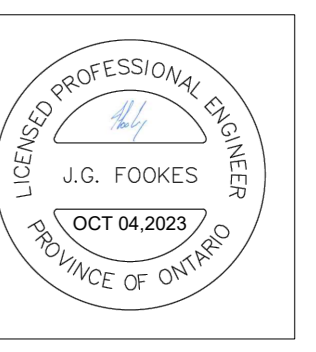
**PRODUCT HEAD vs. FLOW**

PONDING DEPTH (m)	FLOW (L/s)				
	OPEN	3/4	1/2	1/4	CLOSED
0.025	0.315	0.315	0.315	0.315	0.315
0.05	0.631	0.631	0.631	0.631	0.631
0.075	0.946	0.867	0.789	0.710	0.315
0.1	1.262	1.104	0.946	0.789	0.315
0.125	1.577	1.341	1.104	0.867	0.315
0.15	1.893	1.577	1.262	0.946	0.315

- NOTES:**
- PRODUCT - ADJUSTABLE ACCUTROL WEIR  
WEIR SETTING - 3/4  
FLOW RATE APPROX. 0.8L/s IN 100-YR EVENT
  - FOR SCUPPER / EMERGENCY OVERFLOW LOCATIONS / ELEVATION REFER TO ARCHITECTURAL

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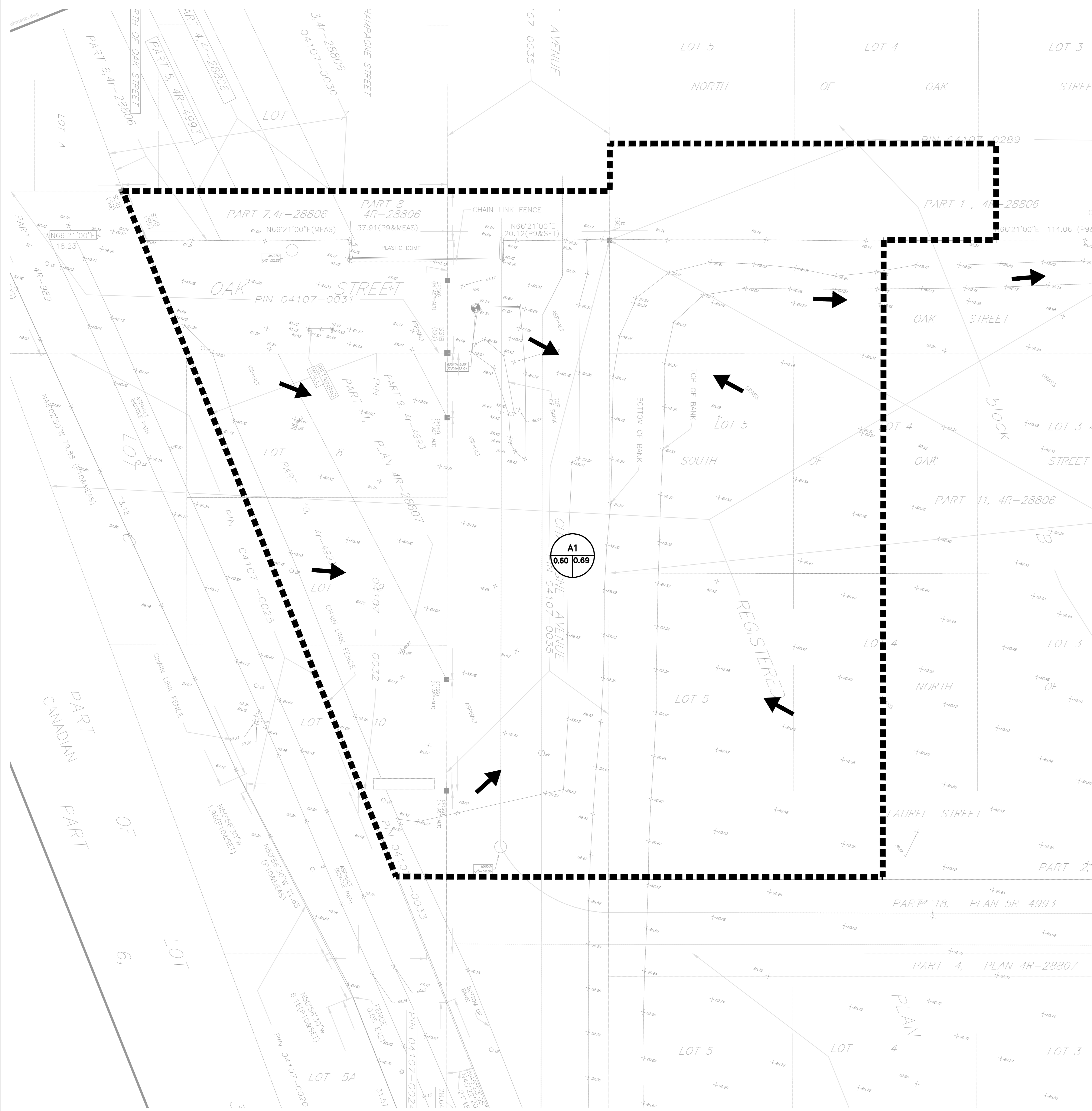
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**GLADSTONE VILLAGE PHASE 1**  
933 Gladstone Avenue - Phase 1  
211006

1:200  
HORIZONTAL

Scale: 1:200  
Project No: 210101900  
Date: 04/10/23  
**C701**  
#18593

ROOF DRAIN LAYOUT & PONDING



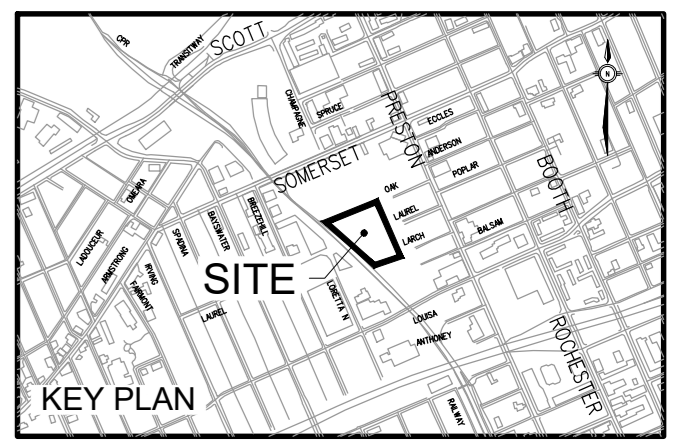
**LEGEND**

AREA ID DRAINAGE AREA CHARACTERISTICS

RUNOFF COEFFICIENT % AREA ha

CATCHMENT AREAS

OVERLAND FLOW DIRECTION



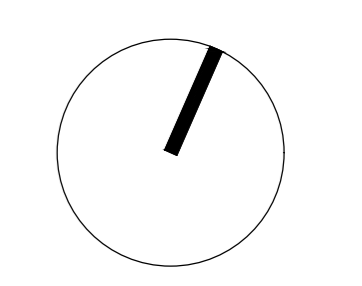
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**A1**  
0.60 0.69

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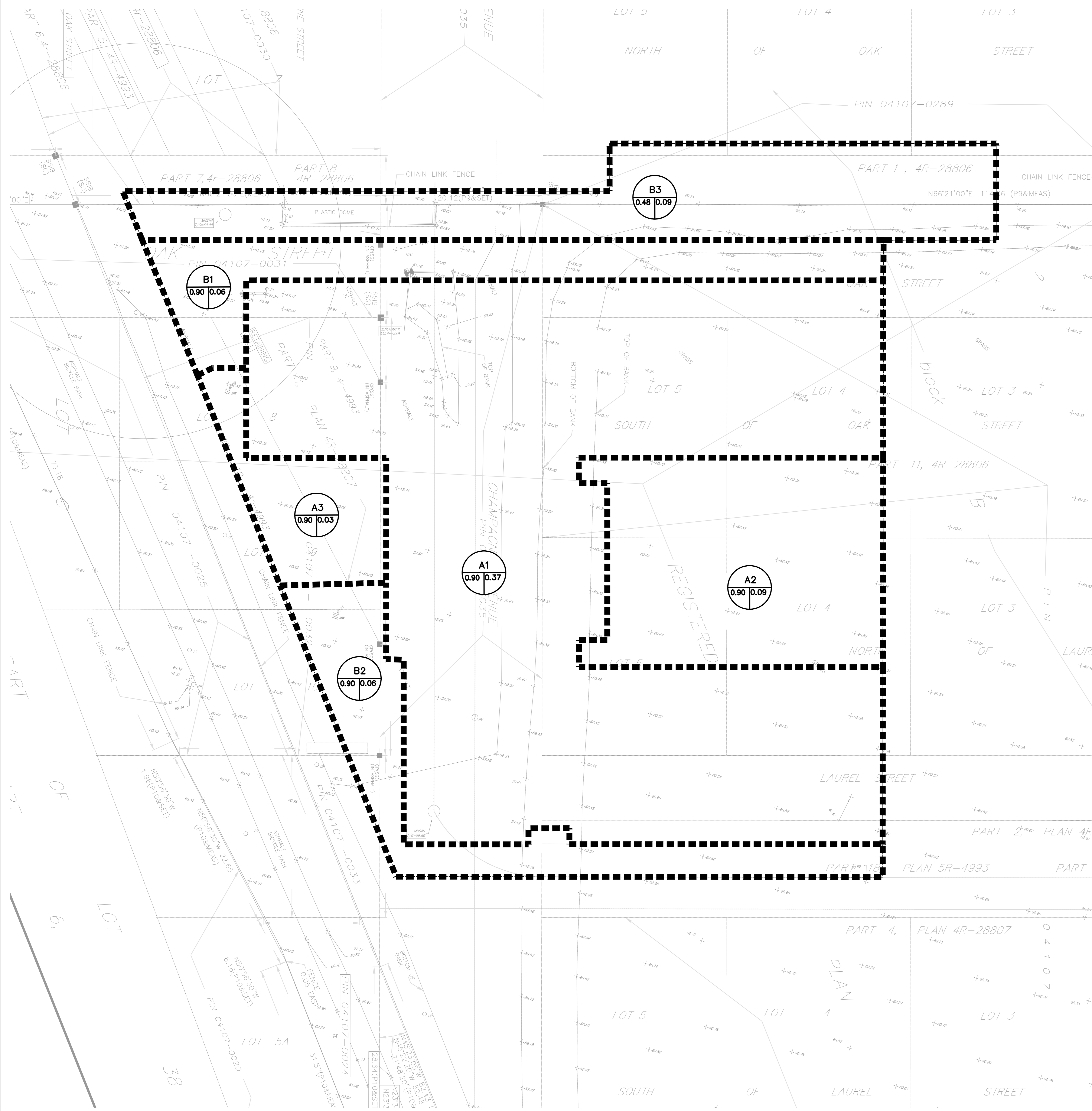
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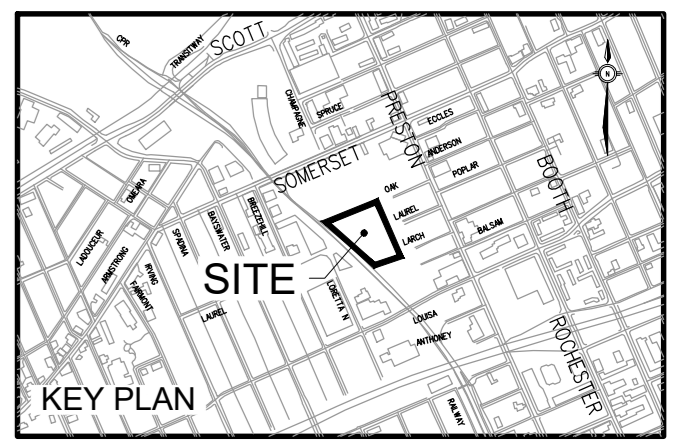
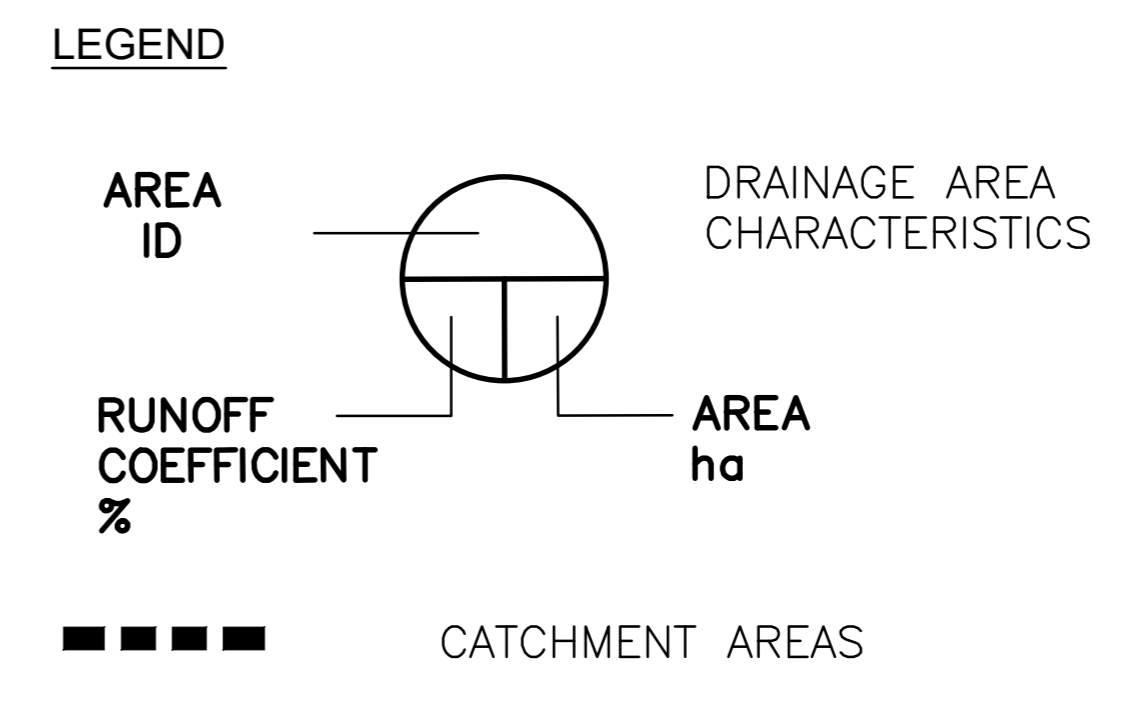
EXISTING SITE CATCHMENTS

Scale: 1:200  
Project No: 210101900  
Date: 04/10/23

**C800**  
#18593



**NOTES**  
 1. A1 & A2 ARE PROPOSED CONTROLLED CATCHMENTS.  
 B1 IS A PROPOSED UNCONTROLLED CATCHMENT.

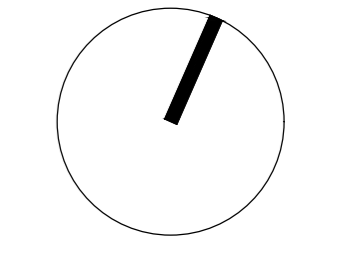


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