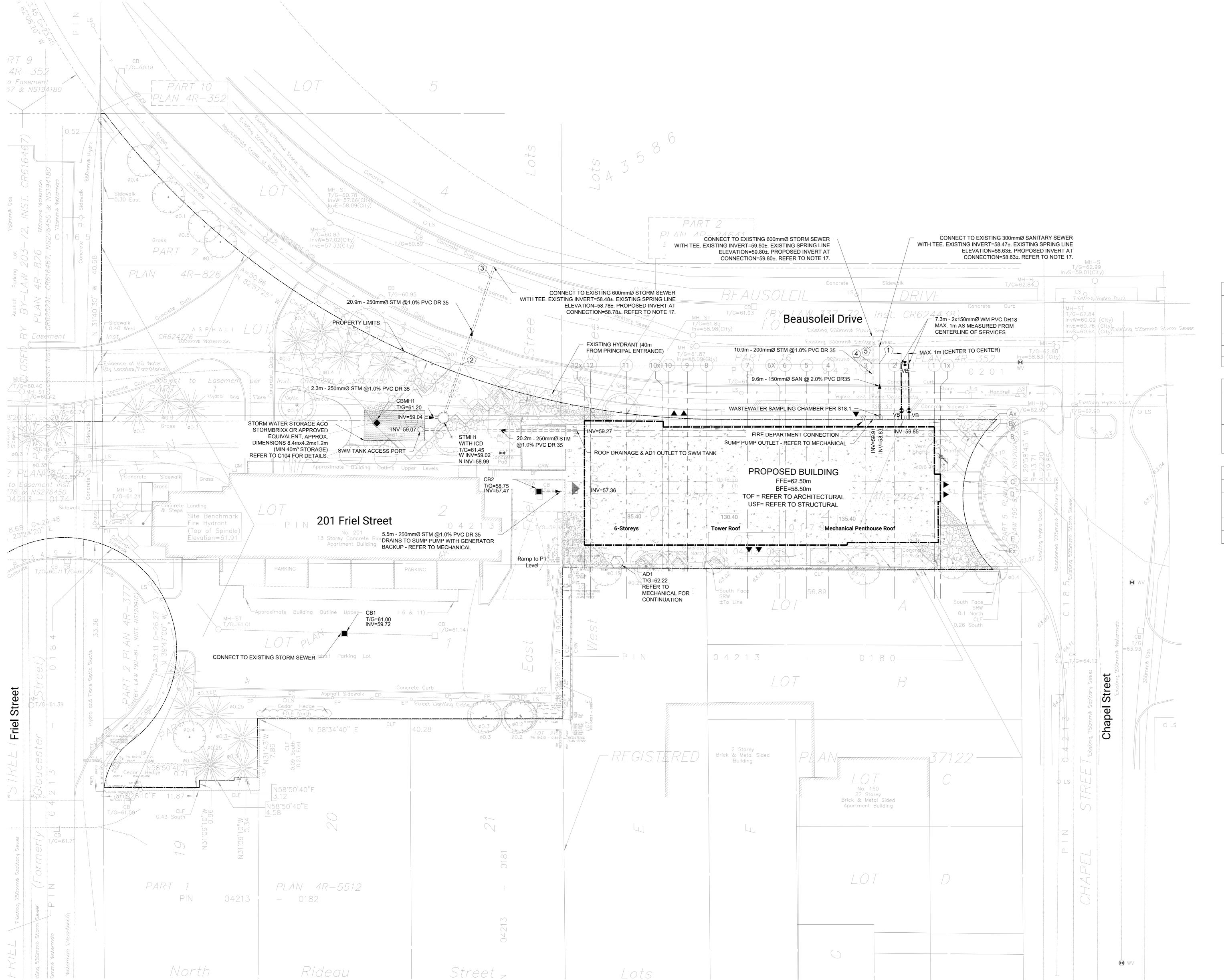


OCH FRIEL STREET / CHAPEL 200/201 FRIEL STREET



	INDEX							
DWG	DESCRIPTION	REVISION						
C000	COVER	00						
C001	SITE SERVICING PLAN	00						
C002	GRADING PLAN	00						
C003	EROSION AND SEDIMENT CONTROL PLAN	00						
C101	DETAILS (1 OF 4)	00						
C102	DETAILS (2 OF 4)	00						
C103	DETAILS (3 OF 4)	00						
C104	DETAILS (4 OF 4)	00						
C700	REMOVALS PLAN	00						
C701	ROOF DRAIN LAYOUT & PONDING	00						
C800	EXISTING DRAINAGE AREA PLAN	00						
C801	PROPOSED DRAINAGE AREA PLAN	00						



- NEW AREA DRAIN (REFER TO MECHANICAL FOR CONTINUATION)
- NEW CATCHBASIN
- NEW SANITARY SEWER

- EXISTING STORM SEWER
- EXISTING WATERMAIN
- **NEW ENTRANCE**
- STORMWATER MANAGEMENT CISTERN
- SITE BOUNDARY
- ---- EDGE OF SUBSTRUCTURE ENTRANCE OF PARKING GARAGE ACCESS RAMP

CATCH BASIN DATA									
NO	00)/50	OTPLICT	ELEV	ATION	NOTES	CI	B CONNECTION	NC	
NO.	COVER	STRUCT.	T/FRAME	LOW/INV	NOTES	DIA (mm)	TYPE	LENGTH (m)	
CB1	S22	705.010B	61.00	59.72		250	PVC DR35	N/A	
CB2	S22	705.010B	58.78	57.50		250	PVC DR35	5.5	
CBMH1	S19	N/A	61.20	N/A		SEE PLAN		-	

	NEW STORM STRUCTURE								
		R STRUCT.	ELEVATION		LOCATION				
NO. COVER	T/FRAME		INVERTS	NORTHING	EASTING	NOTES			
STMH1	S24.1 OR OPSD 401.010 TYPE B	701.011	61.45	59.02 (N) 58.99(SW)	5032694.90	368763.08	ICD ON OUTLET		

	PIPE CROSSING TABLE								
1	200mmØ WM 0.89m CLEARANCE OVER 300mmØ SAN	WM INV=59.90, STM OBV=59.01							
2	200mmØ WM 0.30m CLEARANCE OVER 250mmØ STM	WM INV=59.50, STM OBV=59.20							
3	250mmØ STM 0.48m CLEARANCE OVER 600mmØ SAN	STM INV=58.78, SAN OBV=58.30							
4	200mmØ WM 0.41m CLEARANCE OVER 200mmØ STM	WM INV=59.48, STM OBV=59.07							
5	200mmØ STM 0.60m CLEARANCE OVER 600mmØ SAN	STM INV=58.88, SAN OBV=58.28							



= = = = NEW STORM SEWER

——— NEW WATERMAIN

● VB NEW WATER VALVE AND VALVE BOX (W24)

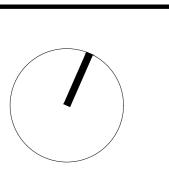
EXISTING STORM/SANITARY MANHOLE

EXISTING SANITARY SEWER BY

CATCH BASIN DATA									
NO	NO COVER OTRUCT		ELEVATION			CB CONNECTION			
NO.	COVER	STRUCT.	T/FRAME	LOW/INV	NOTES	DIA (mm)	TYPE	LENGTH (r	
CB1	S22	705.010B	61.00	59.72		250	PVC DR35	N/A	
CB2	S22	705.010B	58.78	57.50		250	PVC DR35	5.5	
CBMH1	S19	N/A	61.20	N/A		SEE PLAN		-	

			ELEVATION		LOCATION		
NO. COVER		STRUCT.	T/FRAME	INVERTS	NORTHING	EASTING	NOTES
STMH1	S24.1 OR OPSD 401.010 TYPE B	701.011	61.45	59.02 (N) 58.99(SW)	5032694.90	368763.08	ICD ON

D. GLAUSER TO March 22, 2023



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HERSHFIELD

200-2932 BASELINE ROAD, OTTAWA, ON K2H 1B1

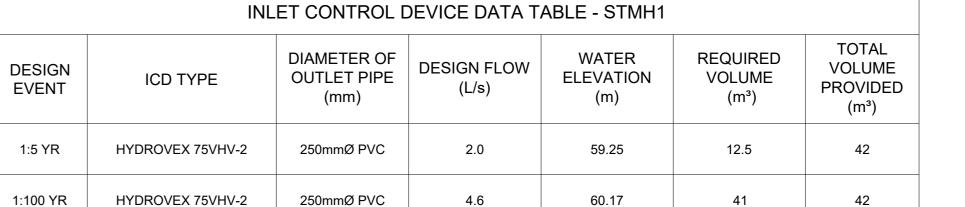
1 2023 MAR 22 ISSUED FOR SITE PLAN APPROVAL

OCH FRIEL STREET / CHAPEL 200/201 FRIEL STREET

SITE SERVICING PLAN

Project No: 220262300

HORIZONTAL



GENERAL

- 1. TOPOGRAPHICAL SURVEY PREPARED BY FARLEY, SMITH & DENIS SURVEYING LTD. DATED SEPT 13, 2022. MTM ZONE 9, GEODETIC DATUM CGVD-1928 :1978
- SITE BENCHMARK: HYDRANT TOP OF SPINDLE ELEV. 61.91 2. SERVICES ARE TO BE CONSTRUCTED TO 1.0m FROM FACE OF BUILDING. 4. REFER TO "SITE SERVICING AND STORMWATER MANAGEMENT DESIGN BRIEF" PREPARED BY MORRISON HERSHFIELD. 5. REFER TO GEOTECHNICAL INVESTIGATION REPORT (AUG 2017 GEOTECH

REPORT PG4129-1) PREPARED BY PATTERSON GROUP FOR SUBSURFACE

CONDITIONS, CONSTRUCTION RECOMMENDATIONS AND GEOTECHNICAL

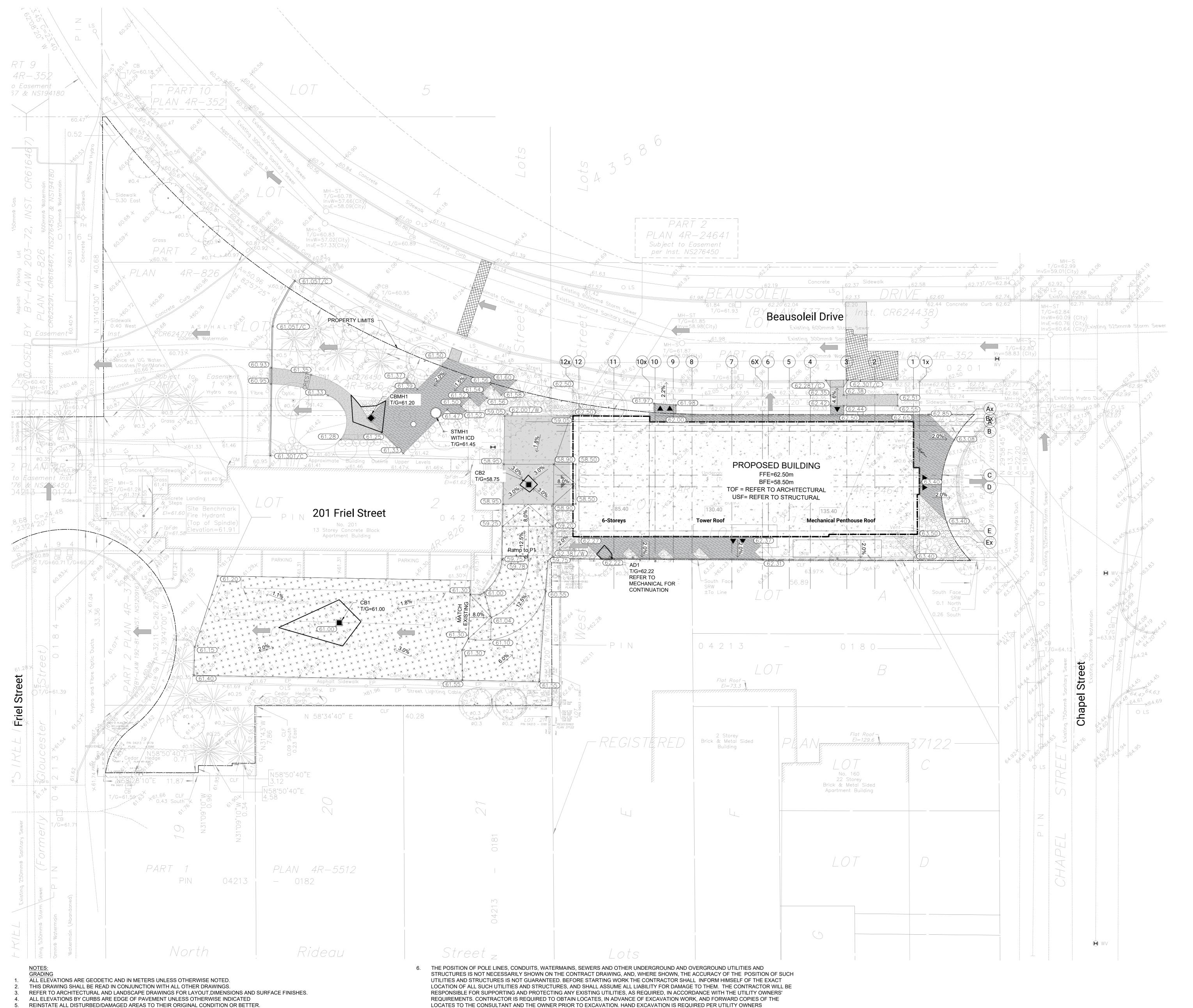
- INSPECTION REQUIREMENTS. THE GEOTECHNICAL CONSULTANT SHALL REVIEW EXCAVATIONS PRIOR TO THE PLACEMENT OF GRANULAR MATERIAL. 6. CONTRACTOR TO VERIFY ALL EXISTING UTILITY ELEVATIONS AT CONNECTION AND CROSSING LOCATIONS PRIOR TO CONSTRUCTION AND ADVISE THE
- ENGINEER OF ANY DISCREPANCIES. 7. UNLESS DIRECTED 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. 8. UNLESS DIRECTED OTHERWISE THE CONTRACTOR SHALL REINSTATE ALL
- SIGNS, LIGHTING AND OTHER STREET FURNITURE DISTURBED BY THE WORK. 18. REFER TO CITY STD. DETAIL W17 ON DRAWING C102 FOR WATERMAIN 9. THE CONTRACTOR SHALL DEVELOP AND IMPLEMENT TRAFFIC MANAGEMENT
- PLANS FOR WORK IN RIGHT OF WAY IN ACCORDANCE WITH OTM BOOK 7. 10. THE CONTRACTOR SHALL PROVIDE ANY TEMPORARY SERVICING NEEDED, AND SHALL ALSO COORDINATE WITH OTHER TRADES AS NECESSARY.
- 11. ALL STORM SEWERS, SANITARY SEWERS AND CATCH BASINS LEADS SHALL BE PVC DR 35 UNLESS OTHERWISE SPECIFIED.
- 12. REFER TO CITY STD. DETAIL S6 ON DRAWING C102 FOR SEWER INSTALLATION. 13. CONTRACTOR SHALL MAINTAIN EXISTING SEWER FLOWS DURING ONSTRUCTION IN ACCORDANCE WITH CITY OF OTTAWA SPECIFICATIONS. 14. ALL MAINTENANCE HOLES, CATCHBASINS AND AREA DRAINS SHALL BE
- ADJUSTED TO POST-CONSTRUCTION GRADE. 15. LEAKAGE TEST (SANITARY SEWER ONLY) AND CCTV INSPECTION SHALL BE COMPLETED AS PER CITY OF OTTAWA SPECIFICATIONS PRIOR TO THE INSTALLATION OF BASE COURSE ASPHALT.
- 16. BACKWATER VALVES TO BE INSTALLED AS PER CITY OF OTTAWA STANDARD S14 & S14.2. 17. CONTRACTOR TO CONFIRM EXACT ELEVATION OF SEWER PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER OF ANY DISCREPANCIES, ROAD CUT REINSTATEMENT AS PER CITY OF OTTAWA STANDARD R10. CONNECTION TO SEWERMAIN PER S11.1
- WATERMAINS INSTALLATION. 19. ALL WATERMAIN MATERIALS AND CONSTRUCTION METHODS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE CITY OF OTTAWA STANDARD SPECIFICATIONS AND STANDARD DRAWINGS. PVC PIPE TO BE CLASS 150 DR18
- TO LATEST EDITION OF A.W.W.A. SPECIFICATION C900 AND CSA B137.3 LATEST AMENDMENT WITH GASKETED BELL AND SPIGOT COUPLINGS. 20. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A WATER PERMIT AS REQUIRED FROM THE CITY OF OTTAWA, AND COMPLYING WITH ALL CITY OF OTTAWA REQUIREMENTS. THE CITY MAY REQUIRE THAT CERTAIN ACTIVITIES (E.G. VALVE OPERATION, CONNECTION OF NEW WATER SERVICE TO EXISTING WATERMAIN, DISINFECTION) BE CARRIED OUT ONLY BY CITY FORCES.
- 21. ALL VALVES 300mm DIAMETER AND SMALLER SHALL INCLUDE A VALVE BOX AS PER W24. 22. THE NEW WATERMAIN IS TO BE INSTALLED WITH A MINIMUM OF 2.4m COVER. WHERE 2.4m COVER IS NOT POSSIBLE, PROVIDE INSULATION IN ACCORDANCE WITH CITY OF OTTAWA STANDARD DETAILS W22 & W23. 23. THRUST RESTRAINT SHALL BE PROVIDED BY BOTH RESTRAINING/RETAINING RINGS AND THRUST BLOCKS AT ALL DEAD END CAPS, PLUGS, VALVES, BENDS AND REDUCERS 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. 24. TRACER WIRE SHALL BE PROVIDED FOR ALL NEW PVC WATERMAINS IN ACCORDANCE WITH THE SPECIFICATIONS AND CITY OF OTTAWA STANDARD DETAIL W36. 25. CATHODIC PROTECTION SHALL BE PROVIDED FOR ALL NEW WATERMAINS IN
- ACCORDANCE WITH THE SPECIFICATIONS AND CITY OF OTTAWA STANDARD DETAILS W39, W40, W41, W42 AND W47. CATHODIC PROTECTION OF EXISTING WATERMAINS SHALL ALSO BE PROVIDED AT CONNECTIONS BETWEEN EXISTING AND NEW WATERMAINS. 26. ADJUST ALL VALVE CHAMBERS, VALVE BOXES AND HYDRANTS TO FINISHED
- UNDERGROUND ANDOVERGROUND 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. 28. ALL CROSSING OF EX. UTILITIES TO BE IN ACCORDANCE WITH CITY STD. DET.

27. THE POSITION OF POLE LINES, CONDUITS, WATERMAINS, SEWERS AND OTHER

UTILITY NOTE



CONTRACTOR IS RESPONSIBLE TO KEEP THE ROADS FREE AND CLEAN FROM THE MUD OR DEBRIS.

SITE BENCHMARK: HYDRANT TOP OF SPINDLE ELEV. 61.91

BENCHMARK NOTE:

SWALES MUST HAVE MINIMUM 1.5% LONGITUDINAL AND SIDE SLOPE AND MAX 3H:1V SIDE SLOPE (S29).

9. TOPOGRAPHICAL SURVEY PREPARED BY FARLEY, SMITH & DENIS SURVEYING LTD. DATED SEPT 13, 2022. MTM ZONE 9, GEODETIC DATUM

PROVIDE POSITIVE DRAINAGE, MATCHING EXISTING OVERALL DRAINAGE PATTERN INDICATED.

14. SAW CUT AND KEY GRIND ASPHALT AT ALL TIE-INS PER CITY OF OTTAWA STANDARD R10.

CONSULTANT SHALL REVIEW EXCAVATIONS PRIOR TO THE PLACEMENT OF GRANULAR MATERIAL.

DIRECTED BY THE OWNER'S REPRESENTATIVE.

15. REINSTATE ANY LINE PAINTING DISTURBED BY THE WORK.

ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA AND/OR ONTARIO PROVINCIAL STANDARDS.

11. BLEND NEW EARTHWORK INTO EXISTING, PROVIDING VERTICAL CURVES OR ROUNDING AT ALL TOP AND BOTTOM OF SLOPES.

ALL TOPSOIL, ORGANIC OR DELETERIOUS MATERIAL MUST BE ENTIRELY REMOVED FROM BENEATH THE PROPOSED PAVED AREAS AS

10. ALL AREAS SHALL DRAIN AT A MINIMUM OF 1%. ANY DISCREPANCIES PREVENTING THIS SHALL BE REPORTED TO THE ENGINEER PRIOR TO

12. CONCRETE SIDEWALKS SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STANDARD DRAWING SC1.4 AND SC4 UNLESS SHOWN OTHERWISE. 13. CONCRETE BARRIER CURBS SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STANDARD DRAWING SC1.1 UNLESS SHOWN OTHERWISE.

REFER TO GEOTECHNICAL INVESTIGATION REPORT (AUG 2017 GEOTECH REPORT PG4129-1) PREPARED BY PATTERSON GROUP FOR SUBSURFACE CONDITIONS, CONSTRUCTION RECOMMENDATIONS AND GEOTECHNICAL INSPECTION REQUIREMENTS. THE GEOTECHNICAL

CONDITIONS. ANY SOFT AREAS EXPOSED FROM THE PROOF ROLLING SHOULD BE SUBEXCAVATED TO A DEPTH OF 500mm AND REPLACED

9. SUBGRADE FOR THE PAVED AREAS SHALL BE PROOF ROLLED WITH A LARGE (10 TONNE MINIMUM) STEEL DRUM ROLLER UNDER DRY

LEGEND

× (66.75T/W) PROPOSED TOP OF WALL ELEVATION

2.0% PROPOSED SLOPE DIRECTION

MAJOR OVERLAND FLOW PATH

LIGHT/HEAVY DUTY ASPHALT PAVING

HEAVY DUTY CONCRETE

40mm MILLING & REINSTATEMENT WITH HL3 OR SP12.5 ASPHALTIC CONCRETE

EXISTING MANHOLE

PONDING ELEVATION (MAX 58mm)



NEW AREA DRAIN PROPOSED MANHOLE PROPOSED ELEVATION × 66.75T/C PROPOSED TOP OF CURB ELEVATION

PAVERS - REFER TO LANDSCAPE

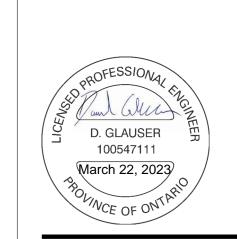
LIGHT DUTY CONCRETE

EXISTING ELEVATION

CONCRETE CURB AS PER SC 1.1

NEW ENTRANCE

ENTRANCE OF PARKING GARAGE ACCESS RAMP

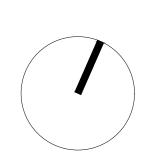


diamond XWC SChmitt XMC

200-2932 BASELINE ROAD, OTTAWA, ON K2H 1B1

1 2023 MAR 22 ISSUED FOR SITE PLAN APPROVAL

HERSHFIELD

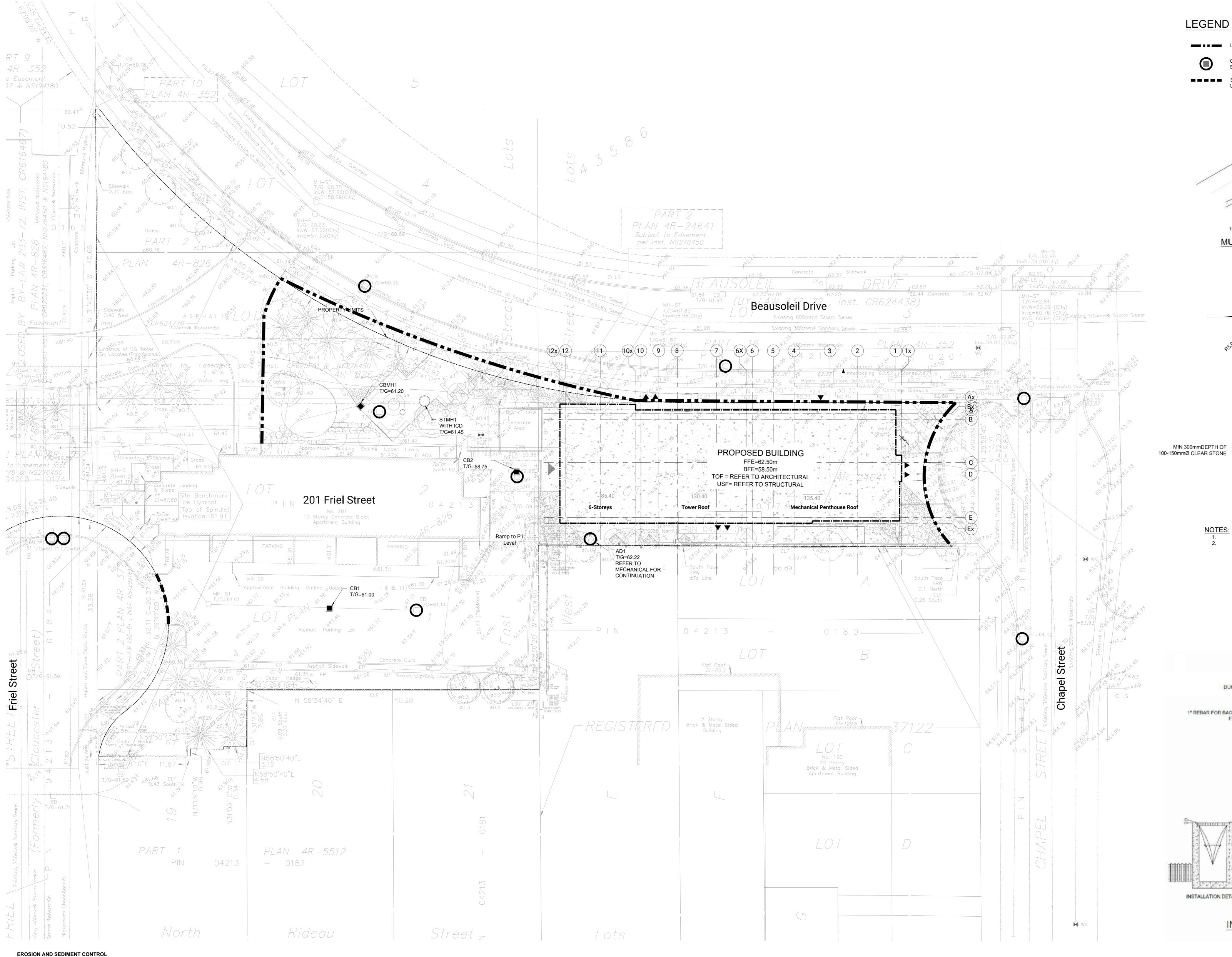


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OCH FRIEL STREET / CHAPEL







 THE CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES, TO PROVIDE FOR PROTECTION OFTHE 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

2. EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE IMPLEMENTED PRIOR TO CONSTRUCTION AND REMAIN IN PLACE UNTIL VEGETATION IS

3. REGULAR INSPECTION AND MAINTENANCE OF THE EROSION AND SEDIMENT

ADJUSTMENT AND/OR CORRECTIVE MAINTENANCE OF THE EROSION AND SEDIMENT MEASURES IS AN INTEGRAL PART OF THE PLAN AND MUST BE

4. CONTRACTOR IS RESPONSIBLE TO KEEP THE ROADS FREE AND CLEAN FROM MUD AND DEBRIS. AS A MINIMUM THIS SHALL INCLUDE SWEEPING LIBRARY

5. THE SEDIMENT AND EROSION CONTROL MEASURES MAY BE MODIFIED IN THE FIELD AT THE DISCRETION OF THE CITY OF OTTAWA SITE INSPECTOR OR

MEASURES SHALL BE UNDERTAKEN. THE IMPLEMENTATION AND

REGULATORY AGENCY.

ROAD DAILY DURING EXCAVATION WORK.

CONSERVATION AUTHORITY.

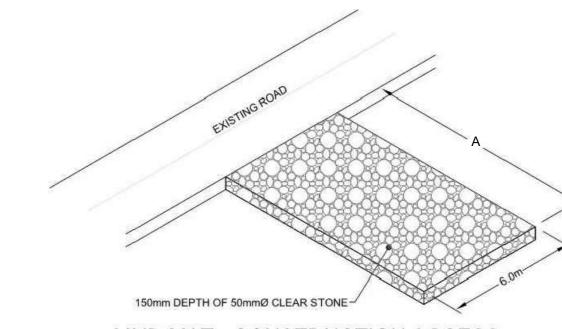
ESTABLISHED.

PERFORMED.

■■■■ LIGHT DUTY SILT FENCE BARRIER (PER OPSD 219.110)

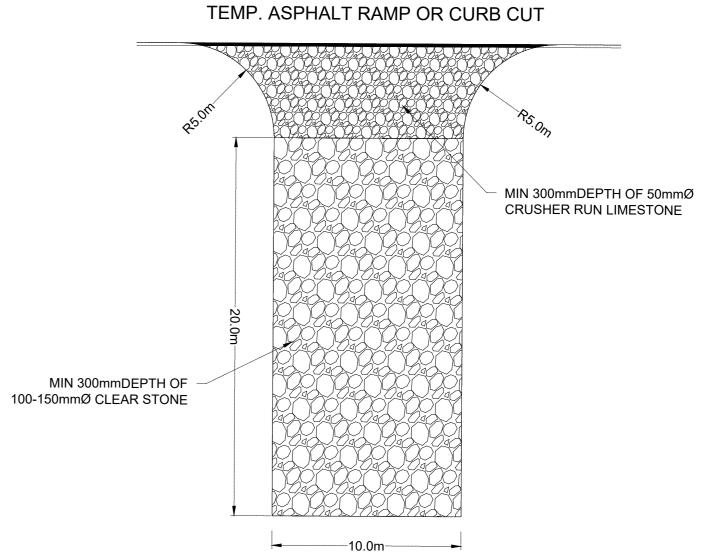
CATCH BASIN PROTECTION (SILTSACK WITHIN CB, OR SURROUND CB WITH SILTSOCK)

SEDIMENT CAPTURE FILTER SOCK HELD IN PLACE USING SANDBAGS



MUD MAT - CONSTRUCTION ACCESS

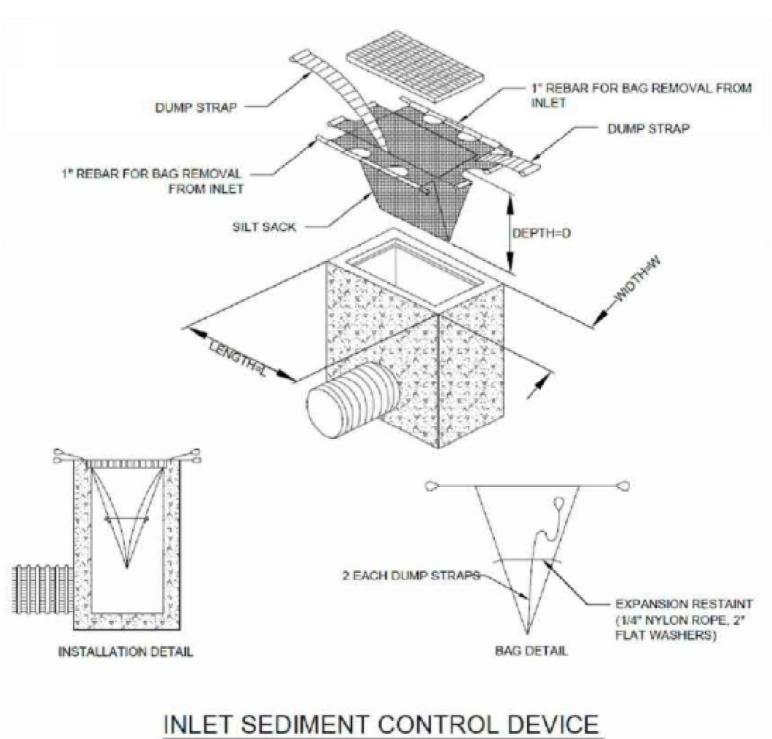
A - TO BE DETERMINED ON SITE IN CONJUNCTION WITH CONSTRUCTION MANAGER

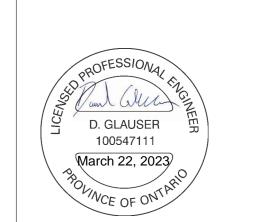


NOTES:

1. INSTALL AT ALL SITE ACCESS LOCATIONS.

2. TEMPORARY CONSTRUCTION ACCESS SHALL BE REMOVED ON COMPLETION OF THE WORK AND ALL DISTURBED AREAS SHALL BE RESTORED TO ORIGINAL OR BETTER CONDITION.



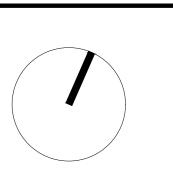


diamond XWC Schmitt XMC

200-2932 BASELINE ROAD, OTTAWA, ON K2H 1B1

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MORRISON HERSHFIELD



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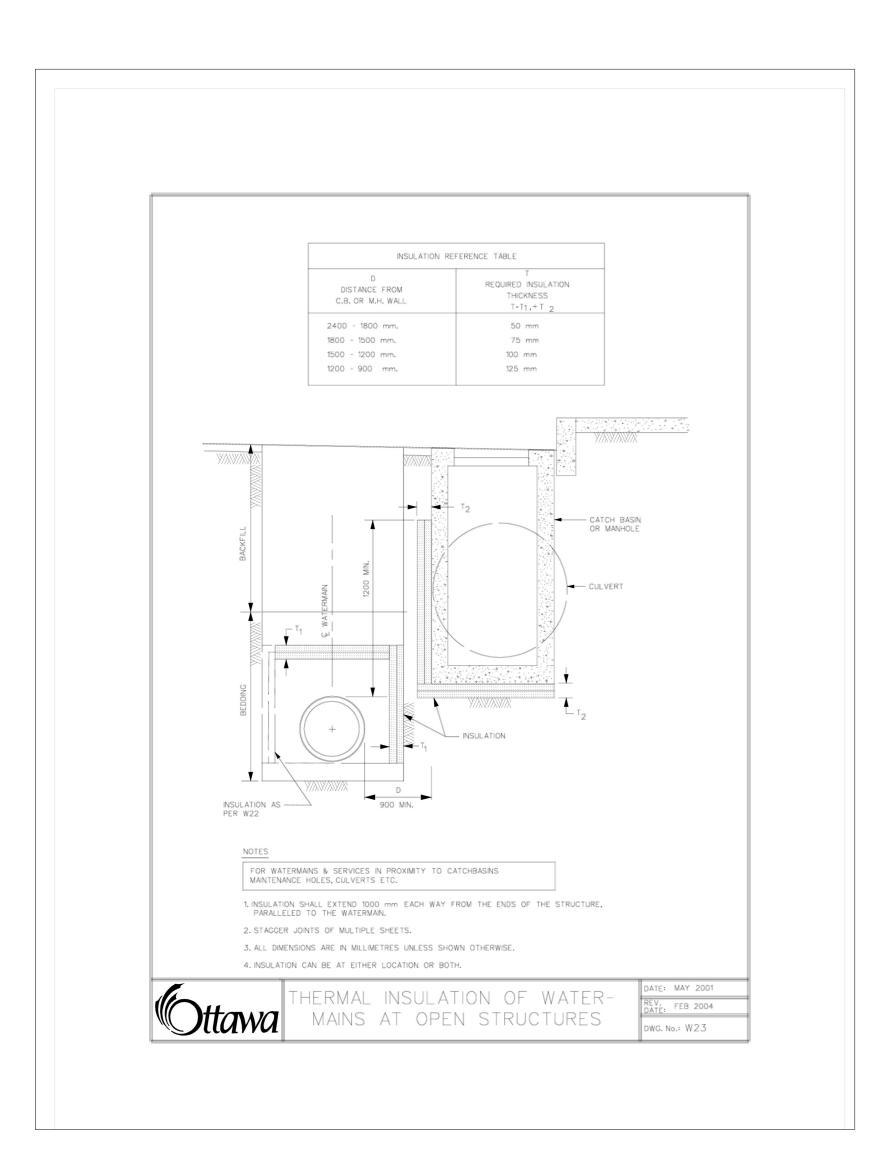
EROSION & SEDIMENT CONTROL
Scale: 1:200 PLAN

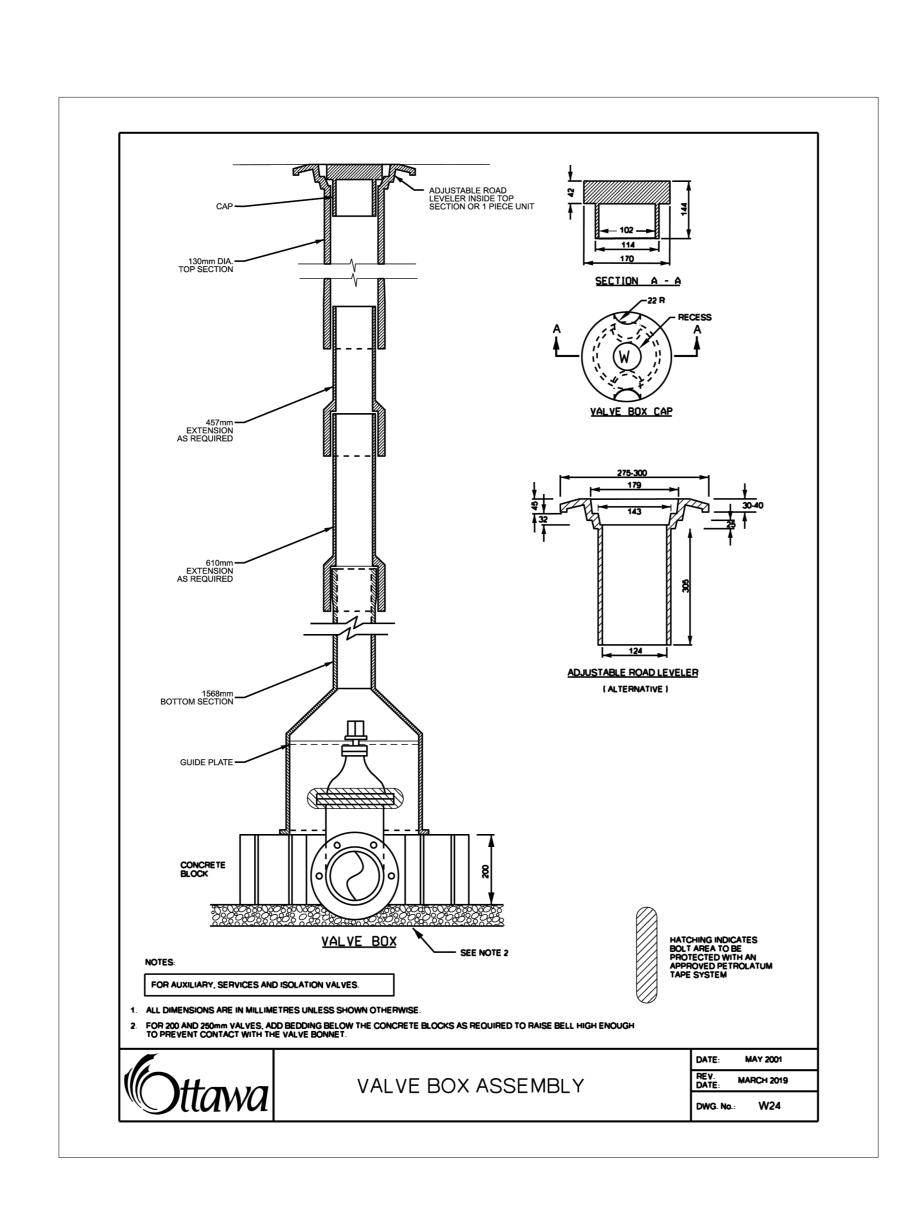


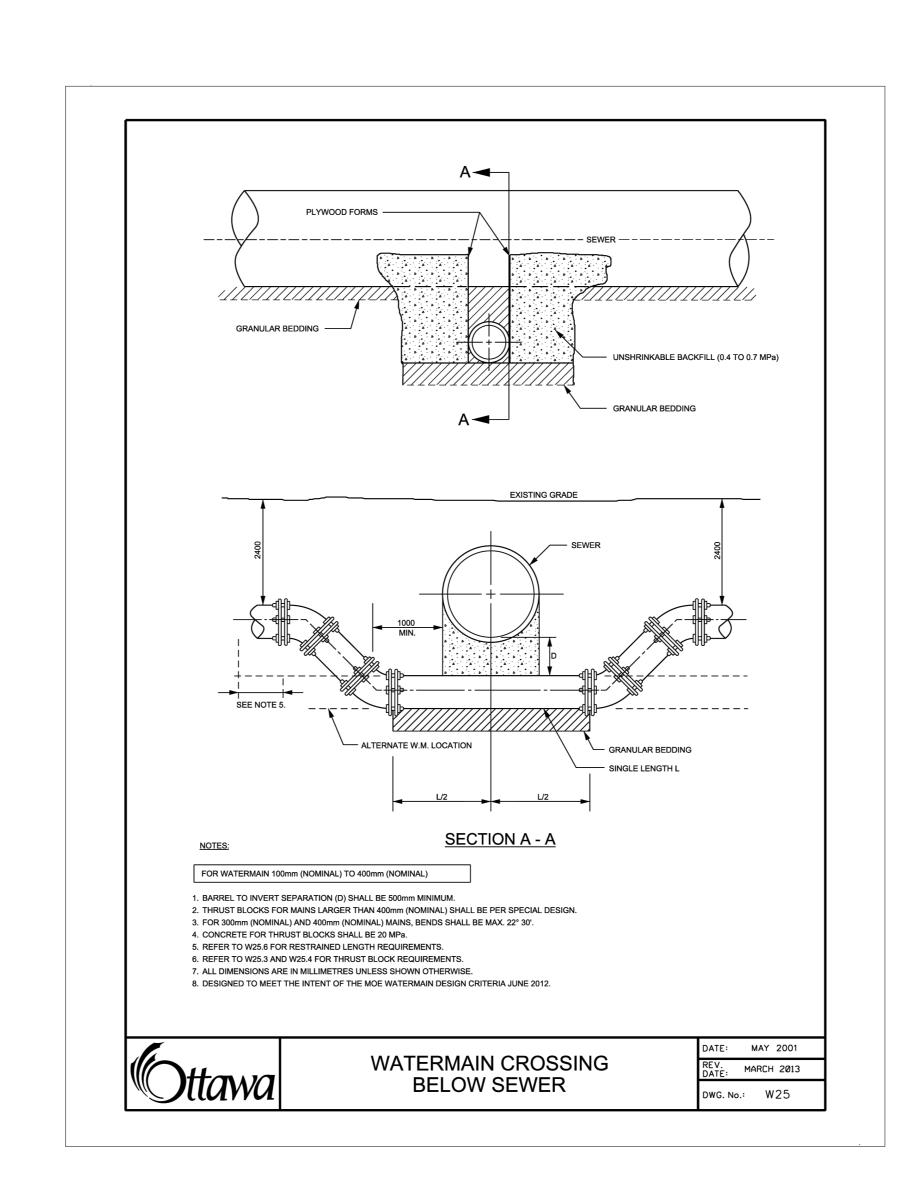
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Project No: 220262300
Date: 03/02/23

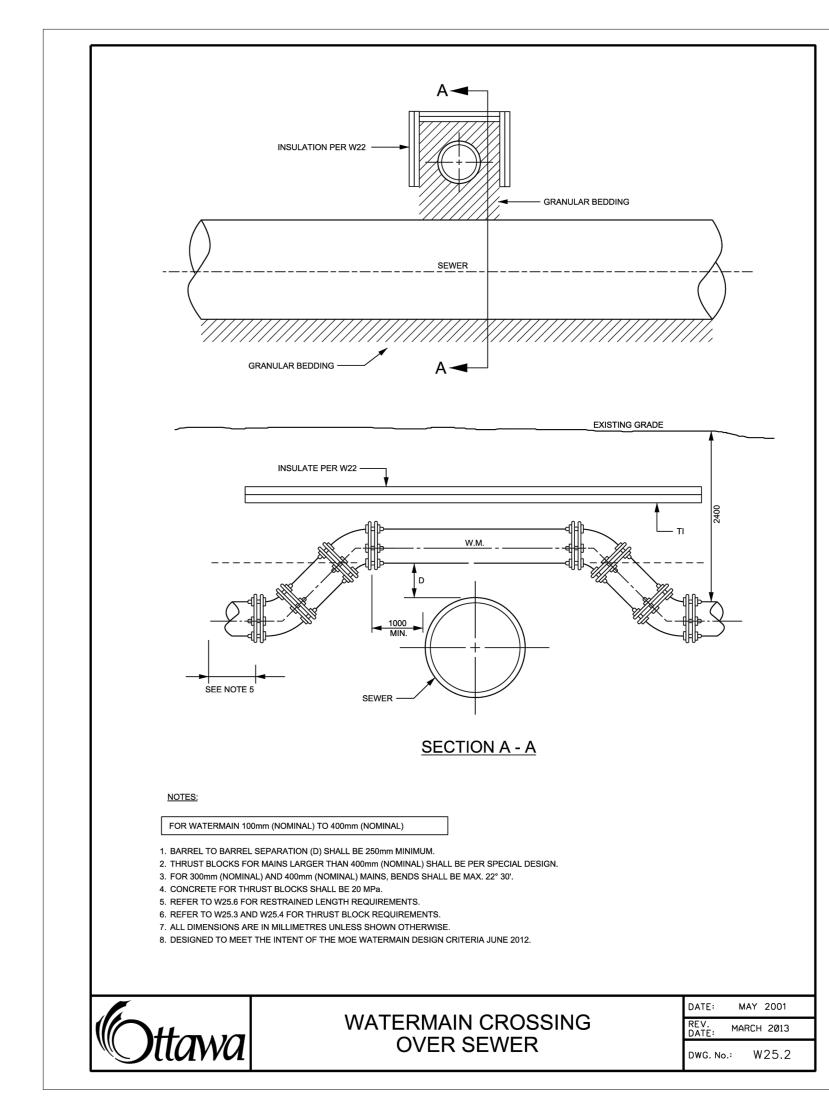


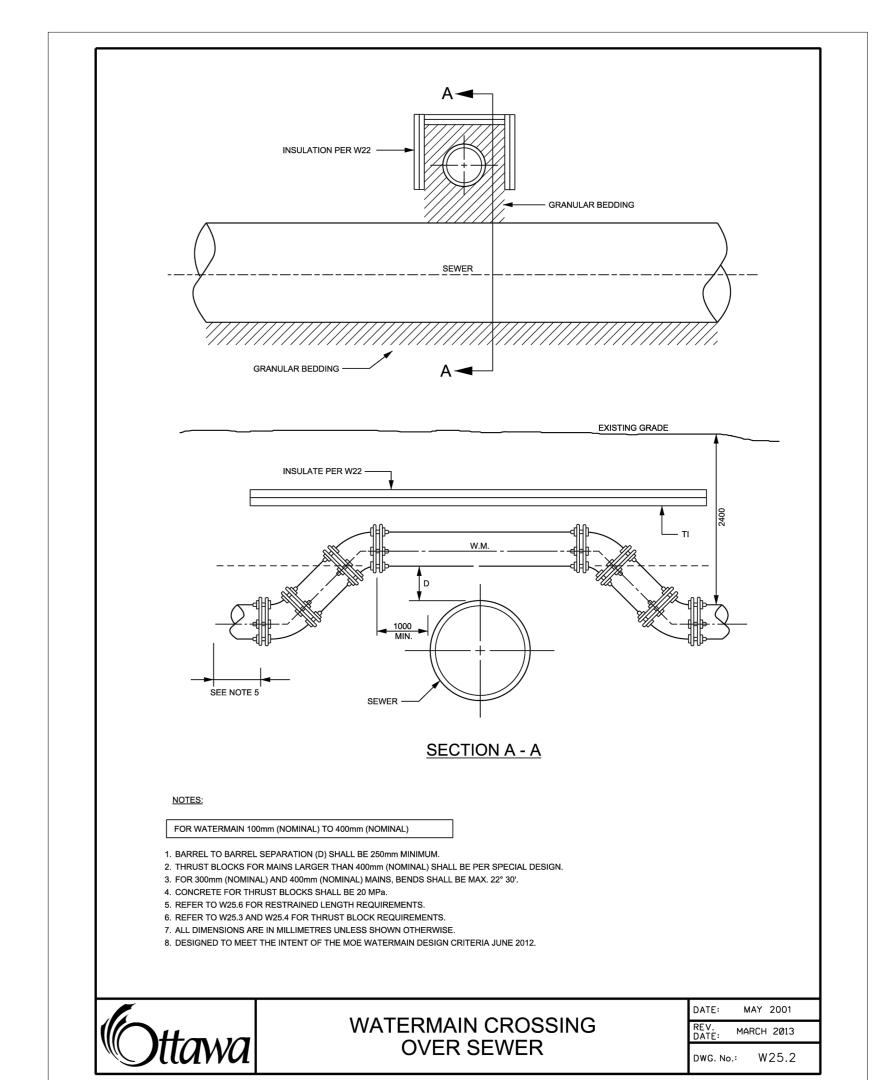
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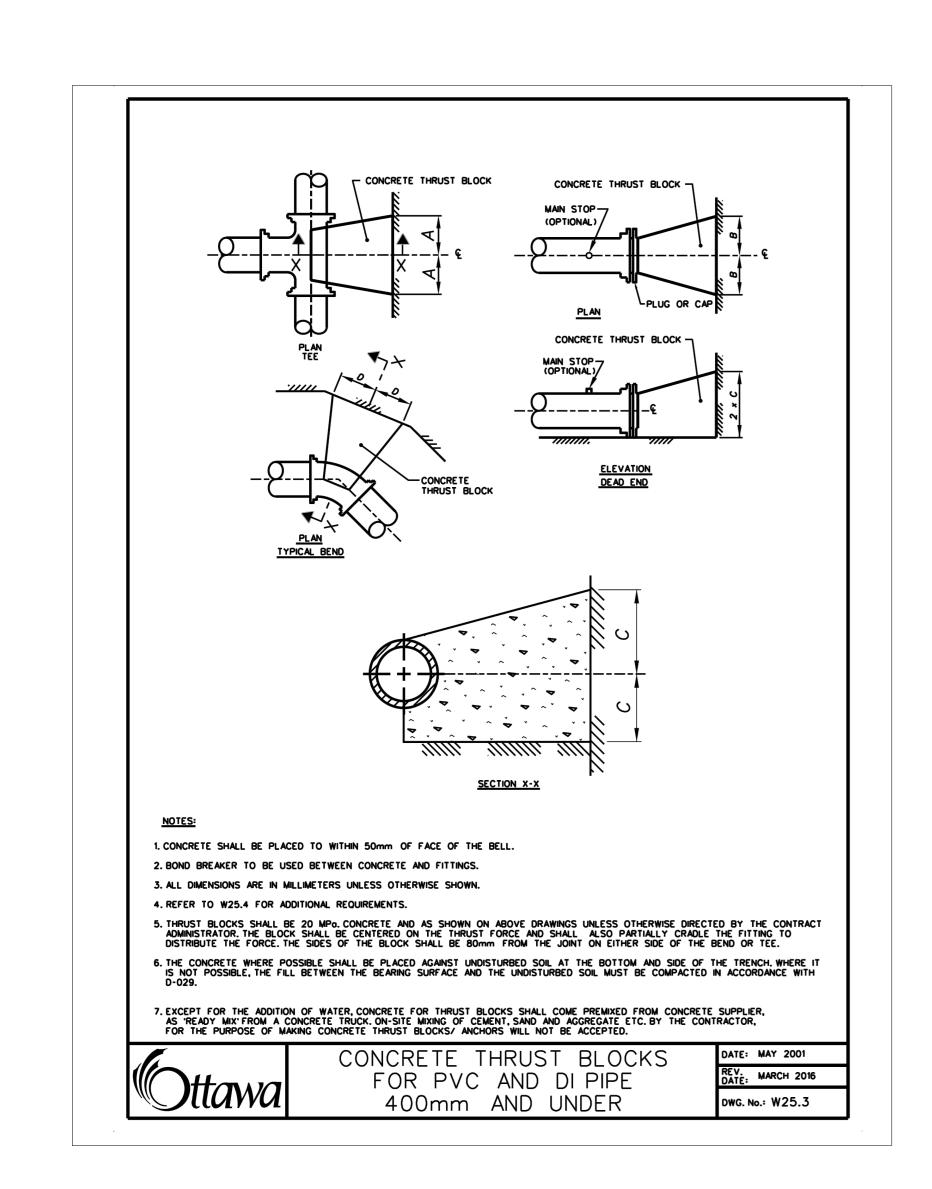


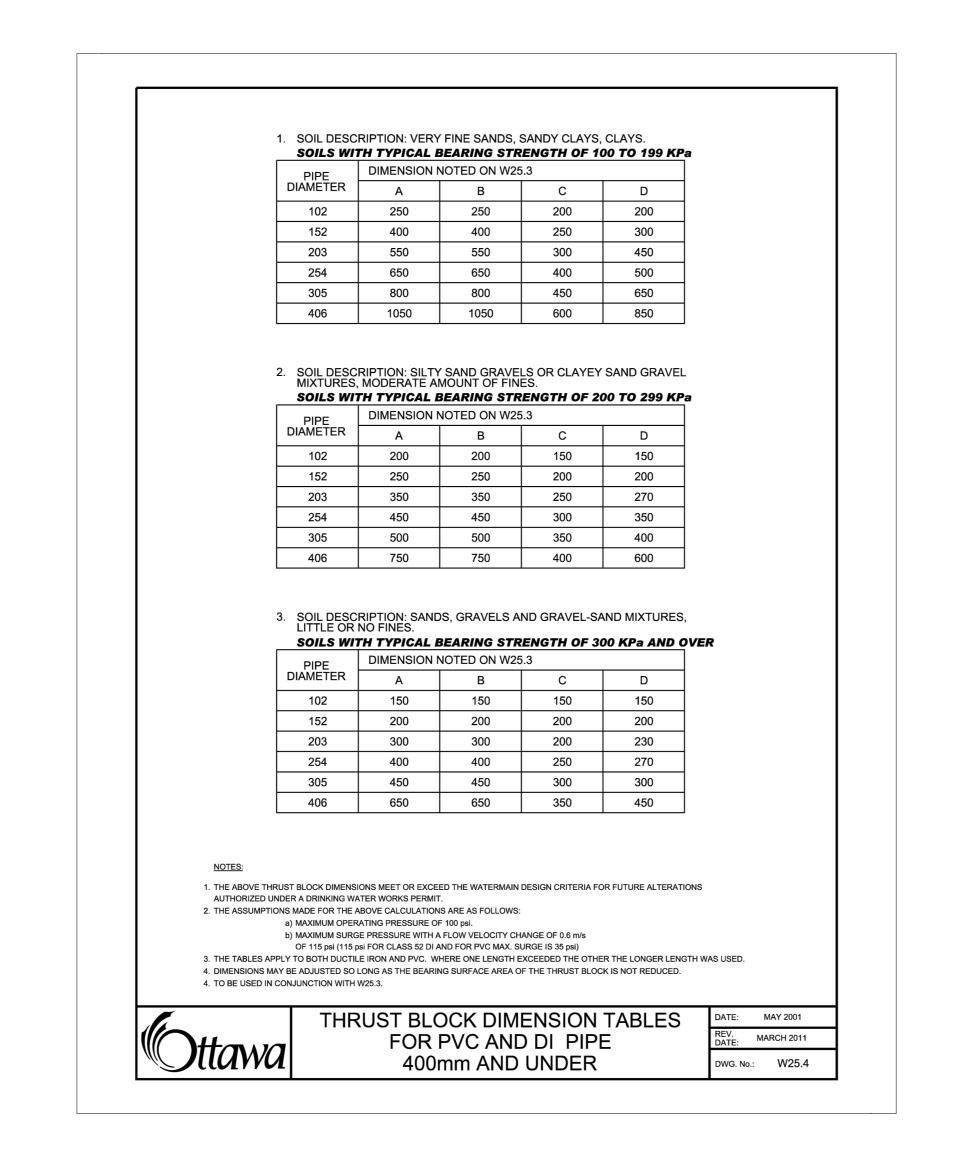


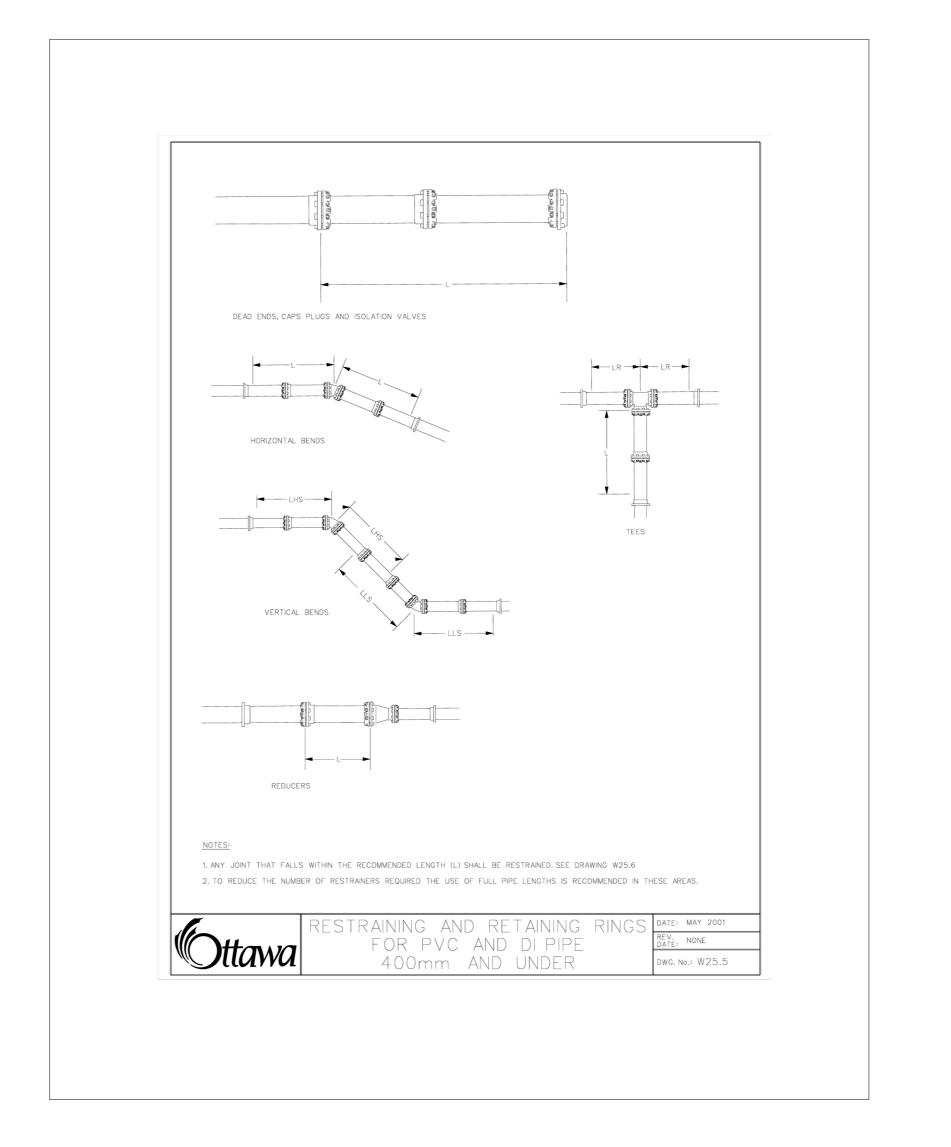


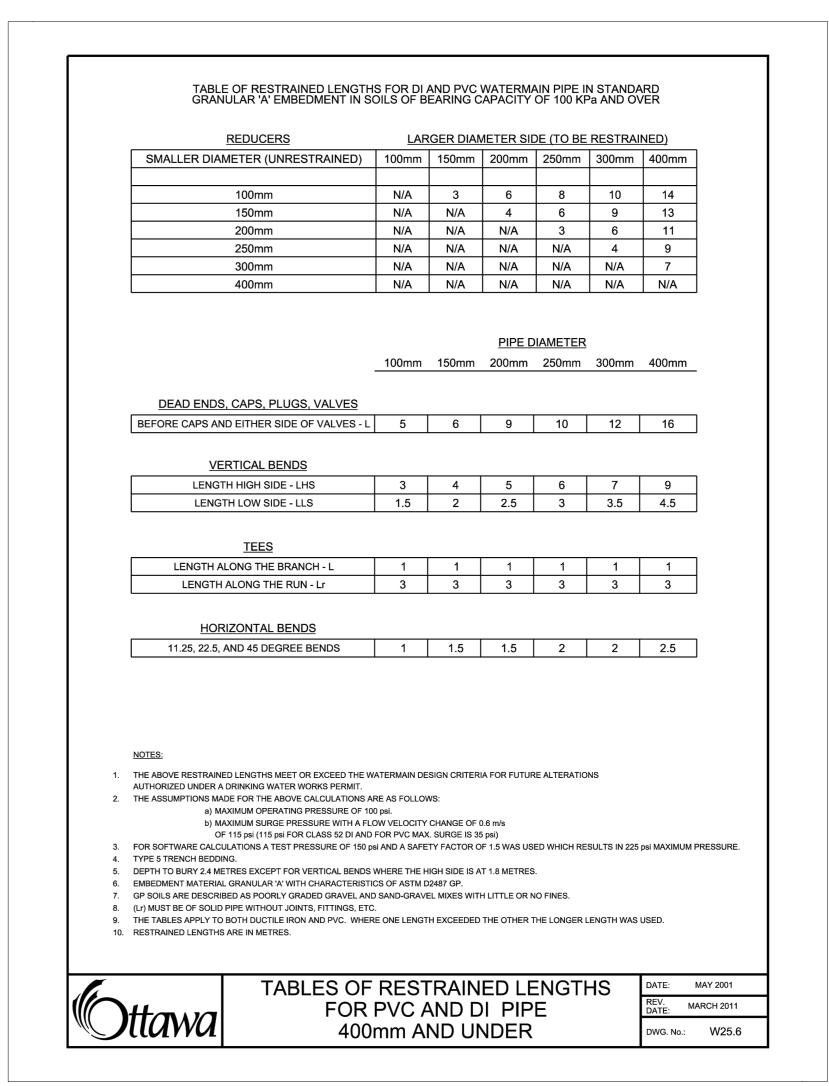


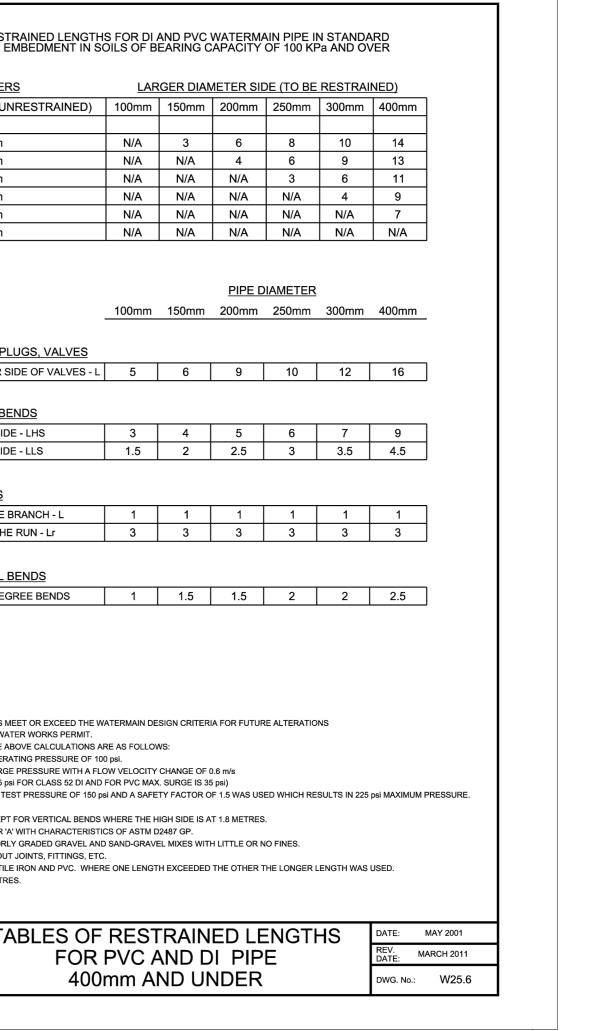


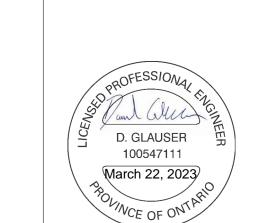


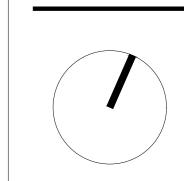












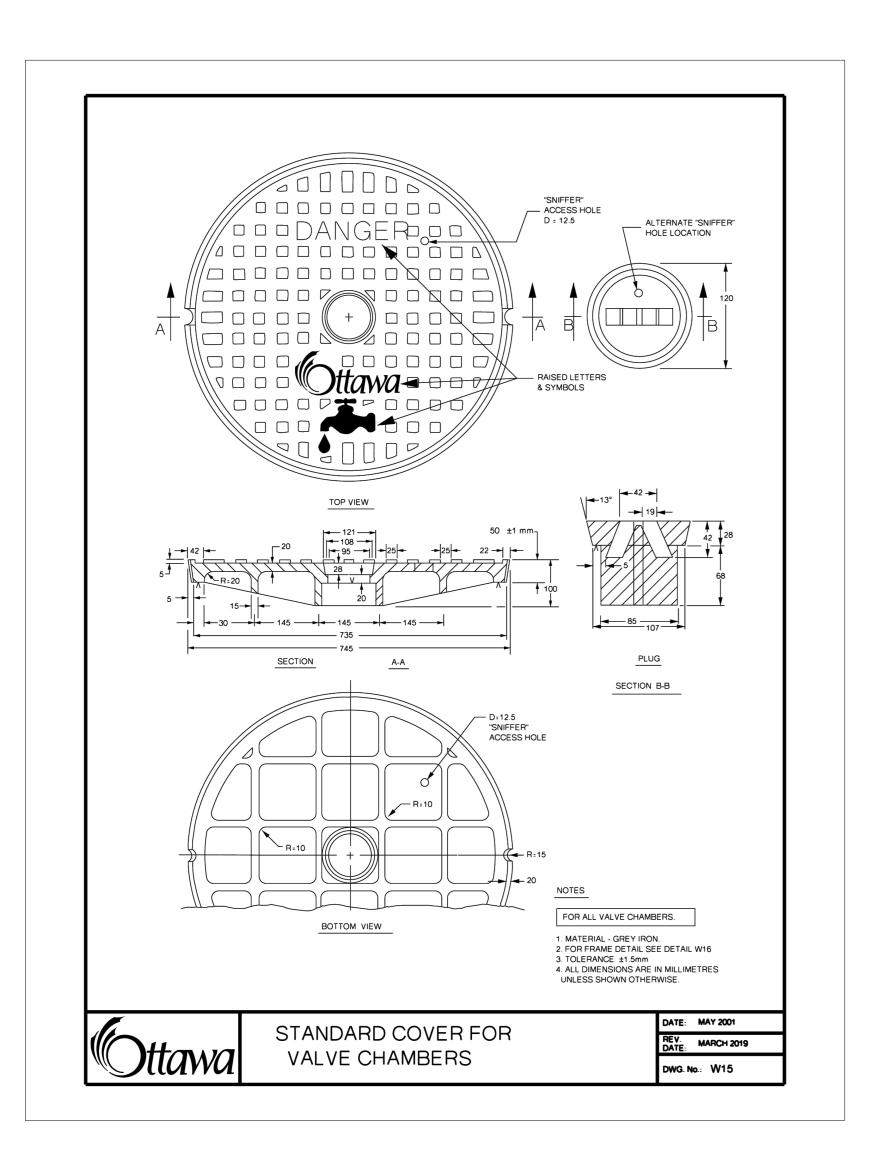
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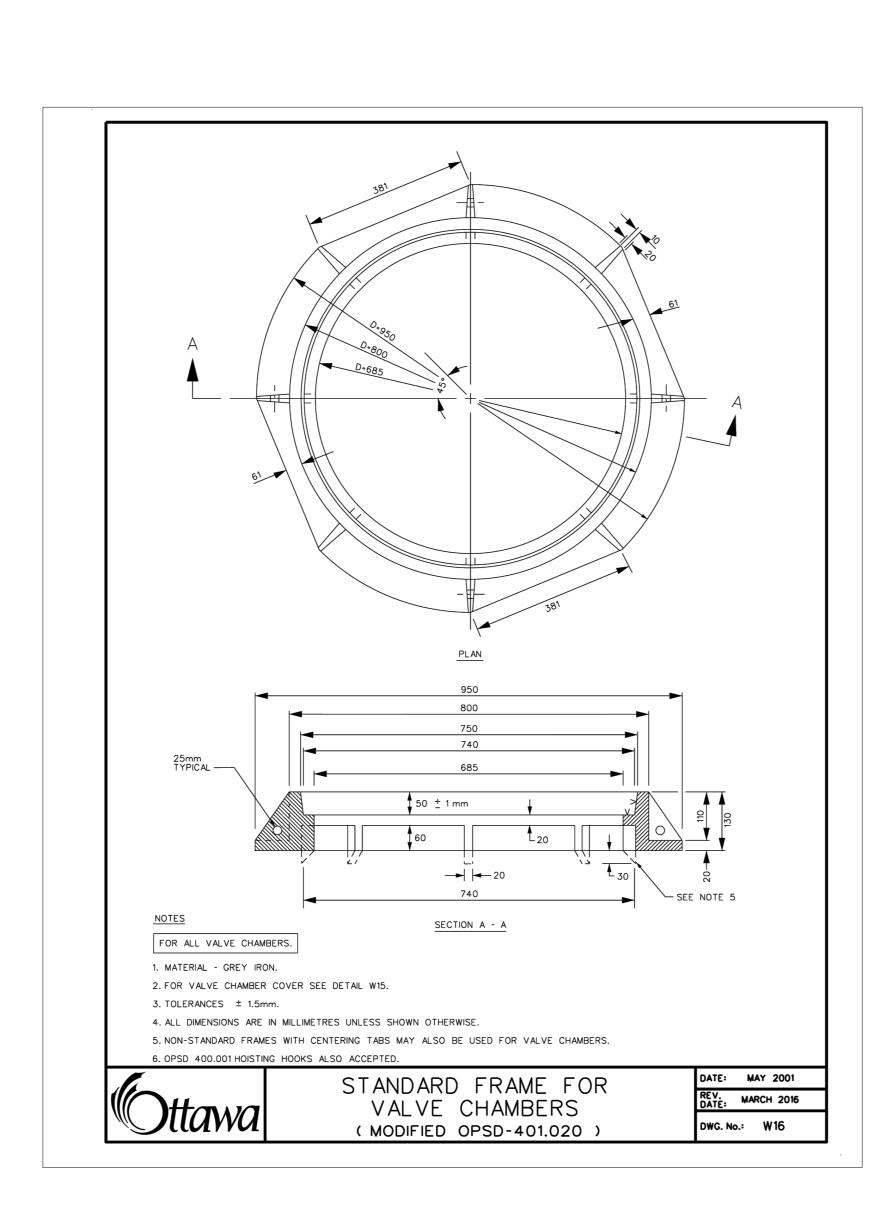
200-2932 BASELINE ROAD, OTTAWA, ON K2H 1E

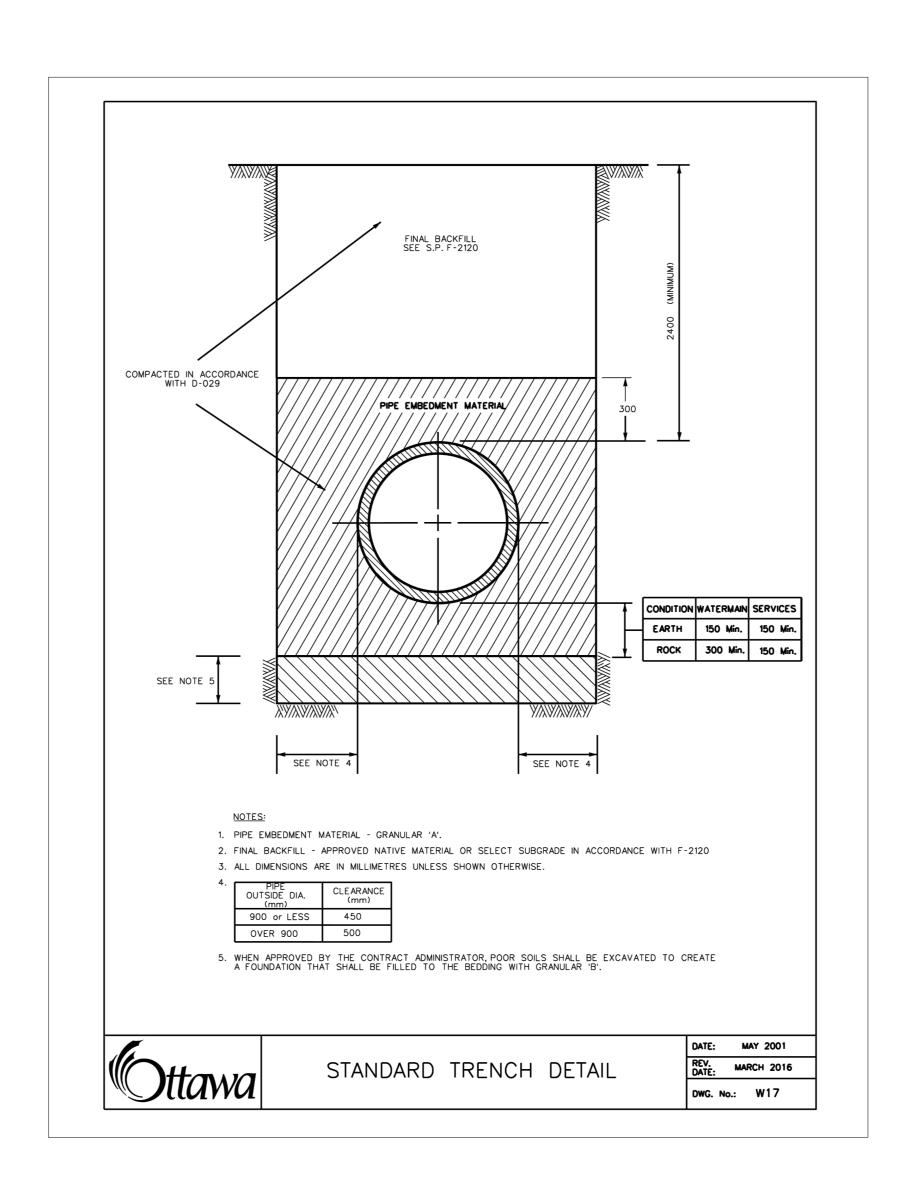
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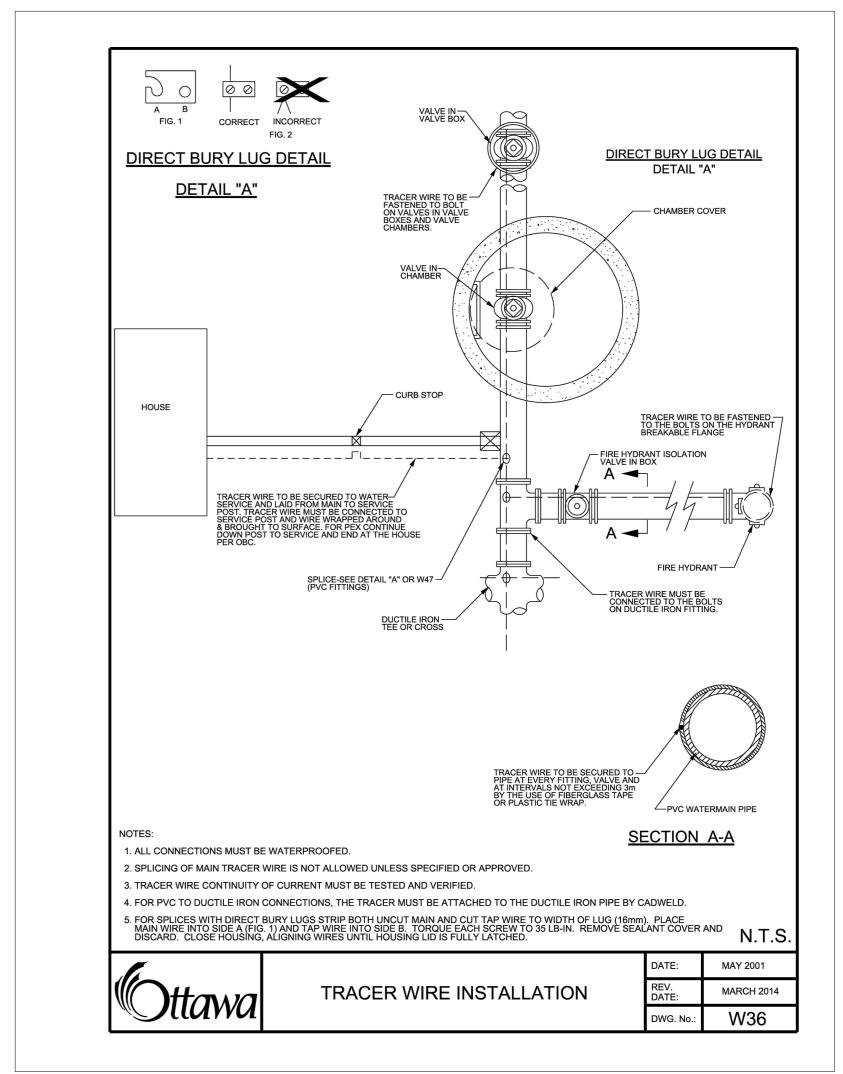
OCH FRIEL STREET / CHAPEL 200/201 FRIEL STREET

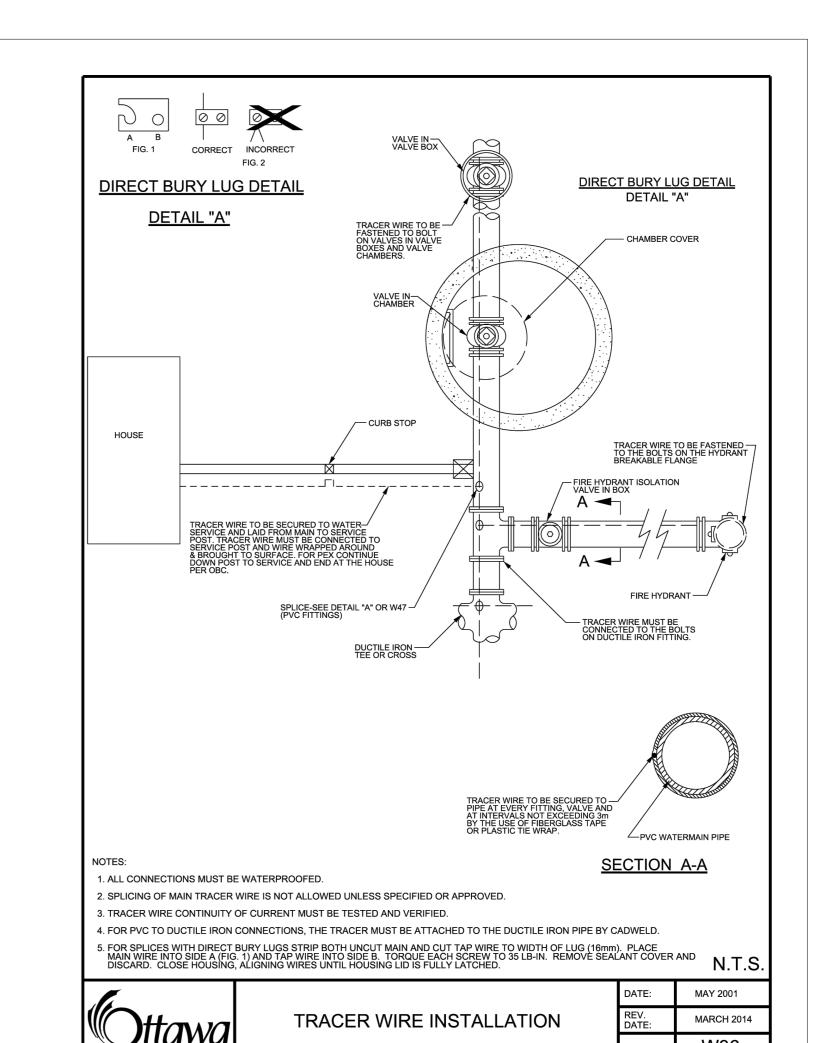
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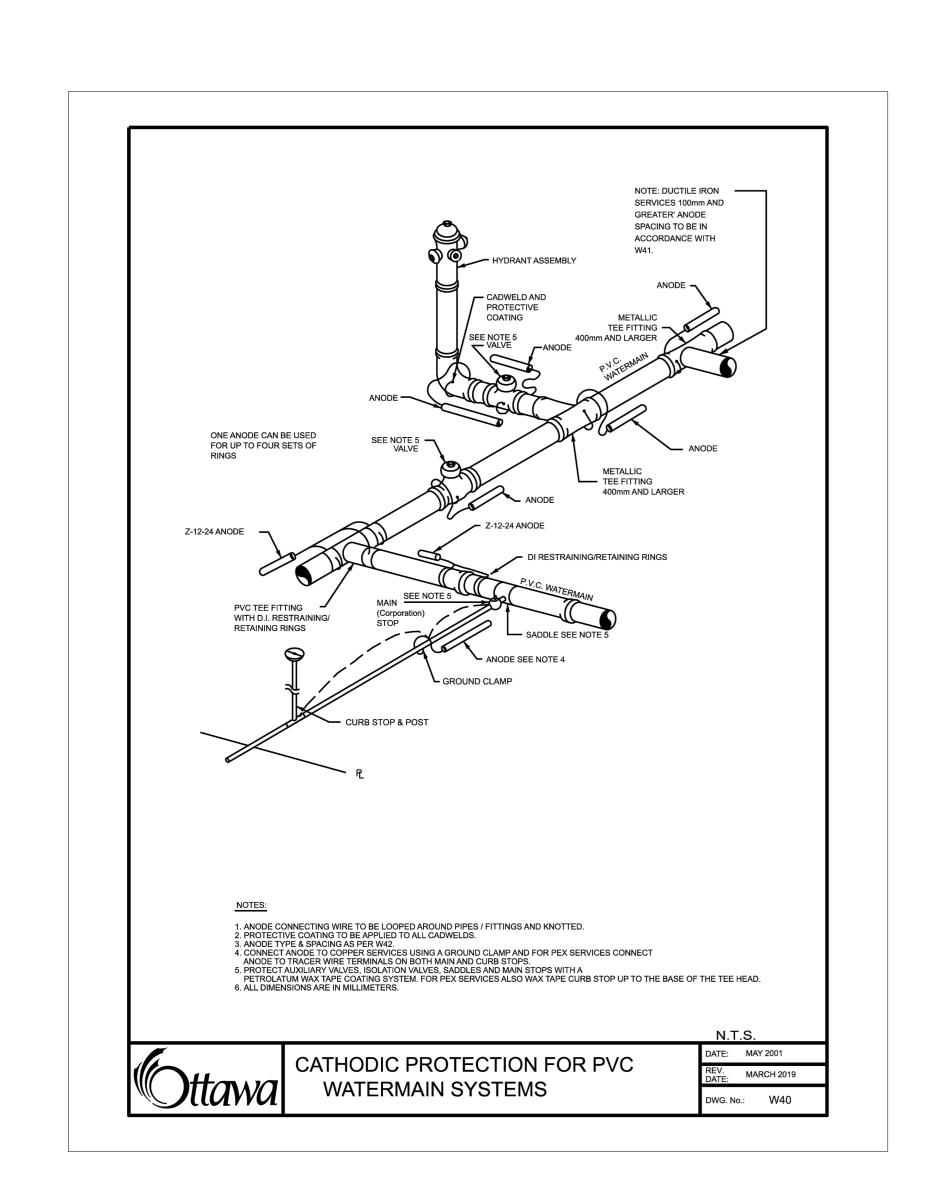


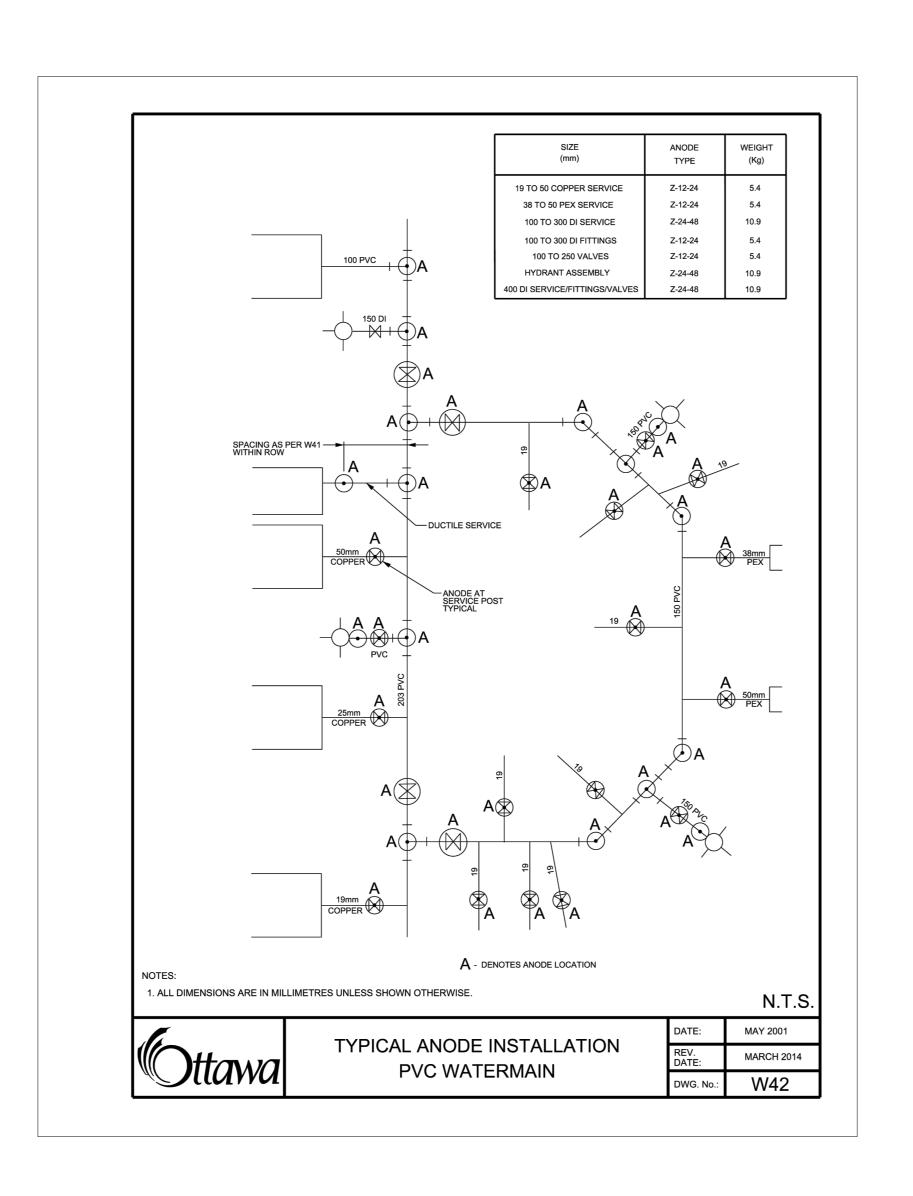


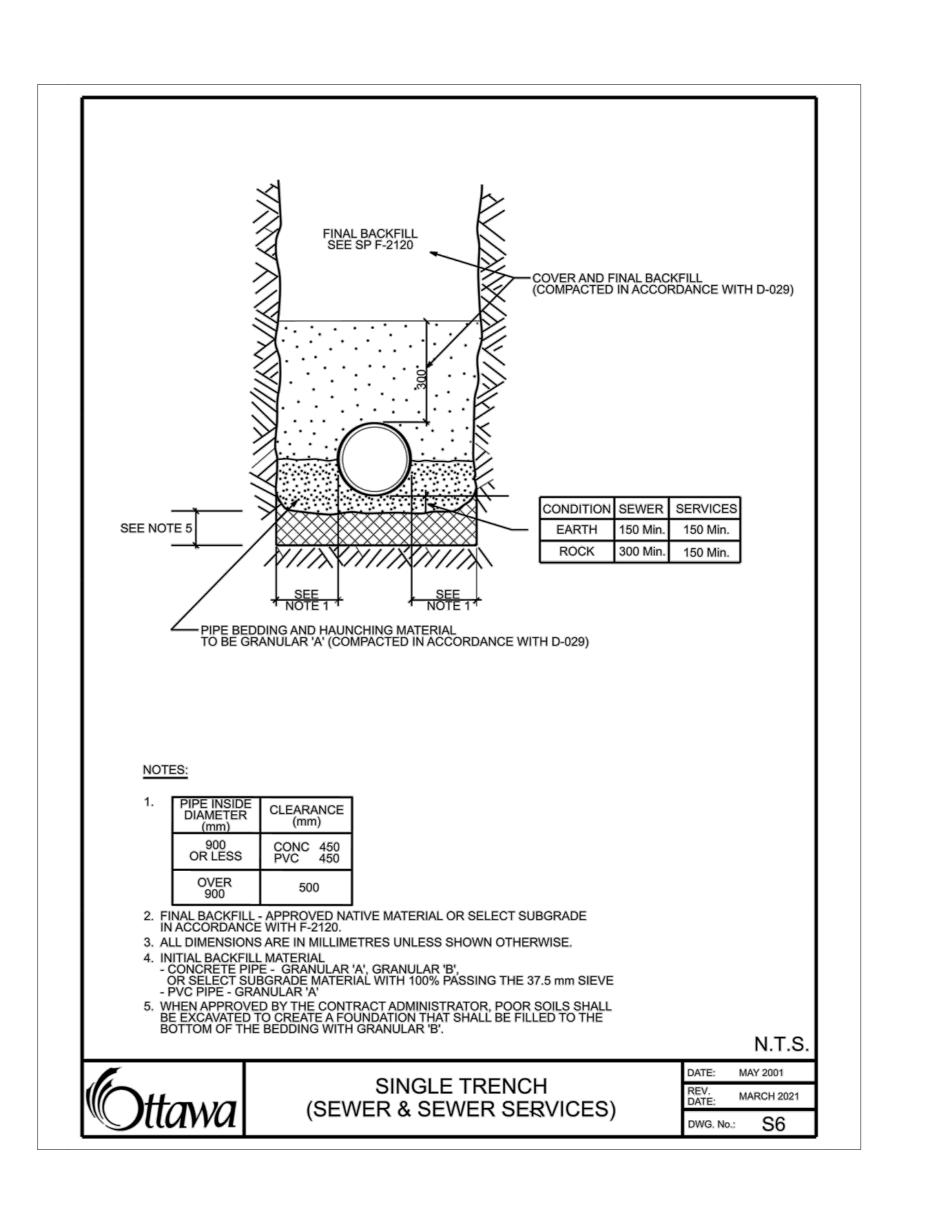


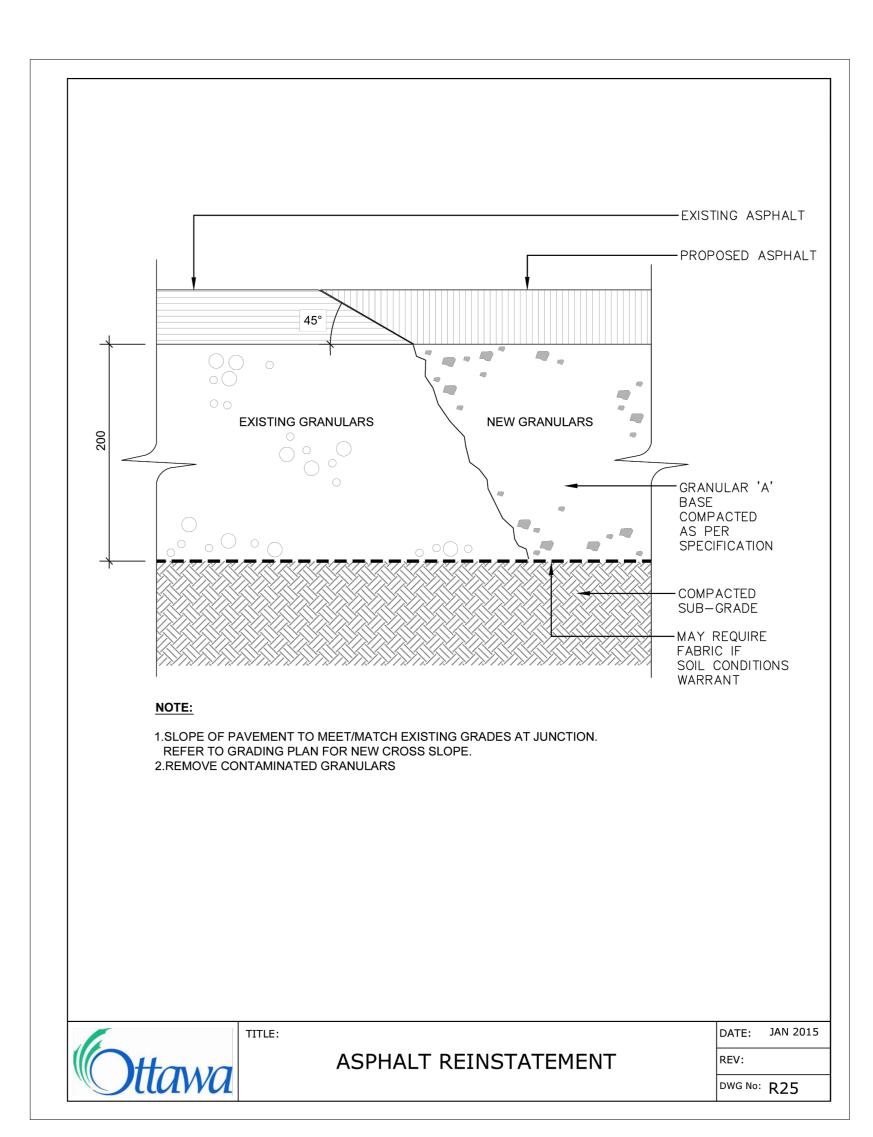


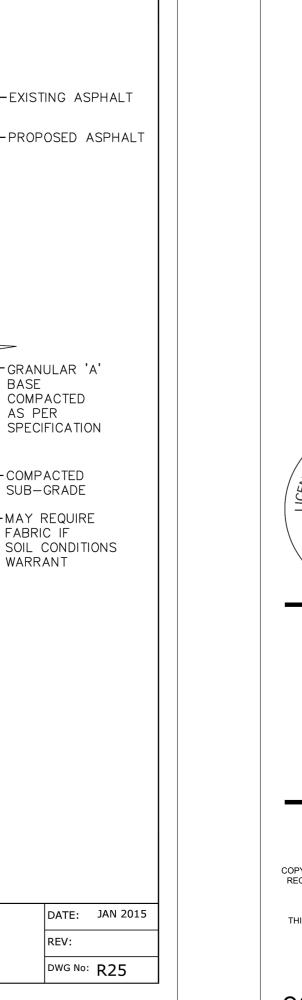


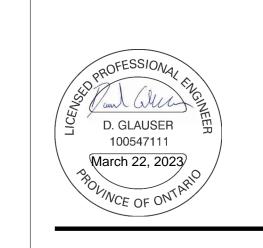




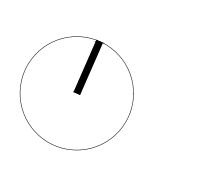








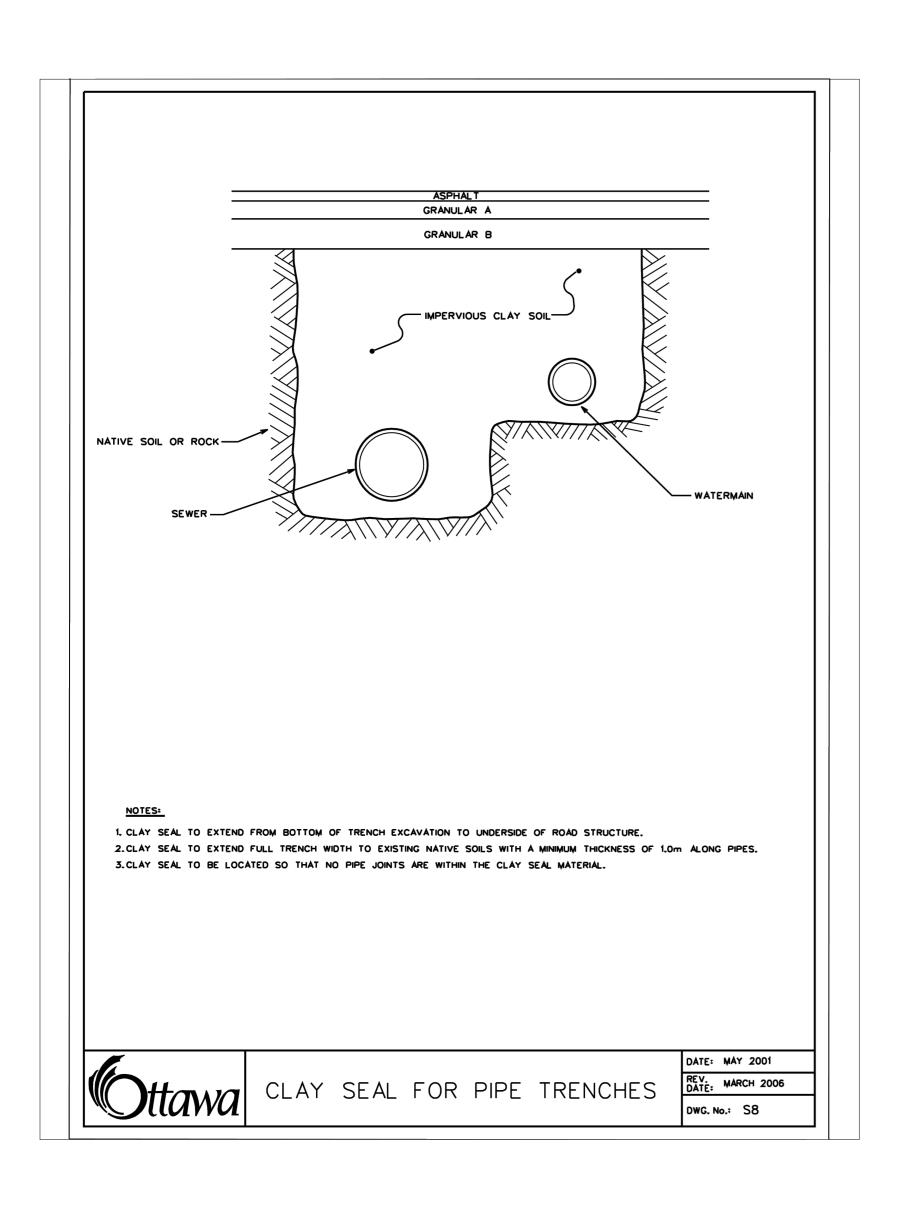
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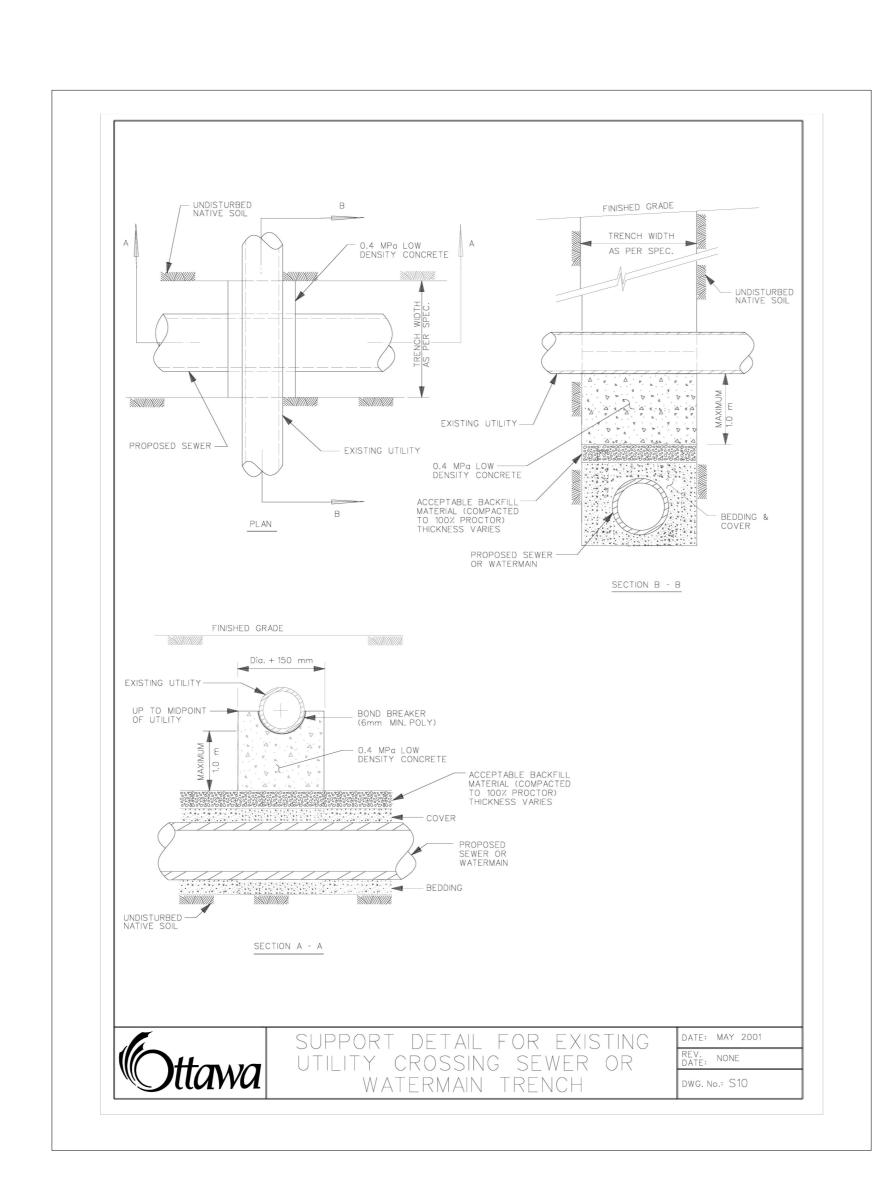


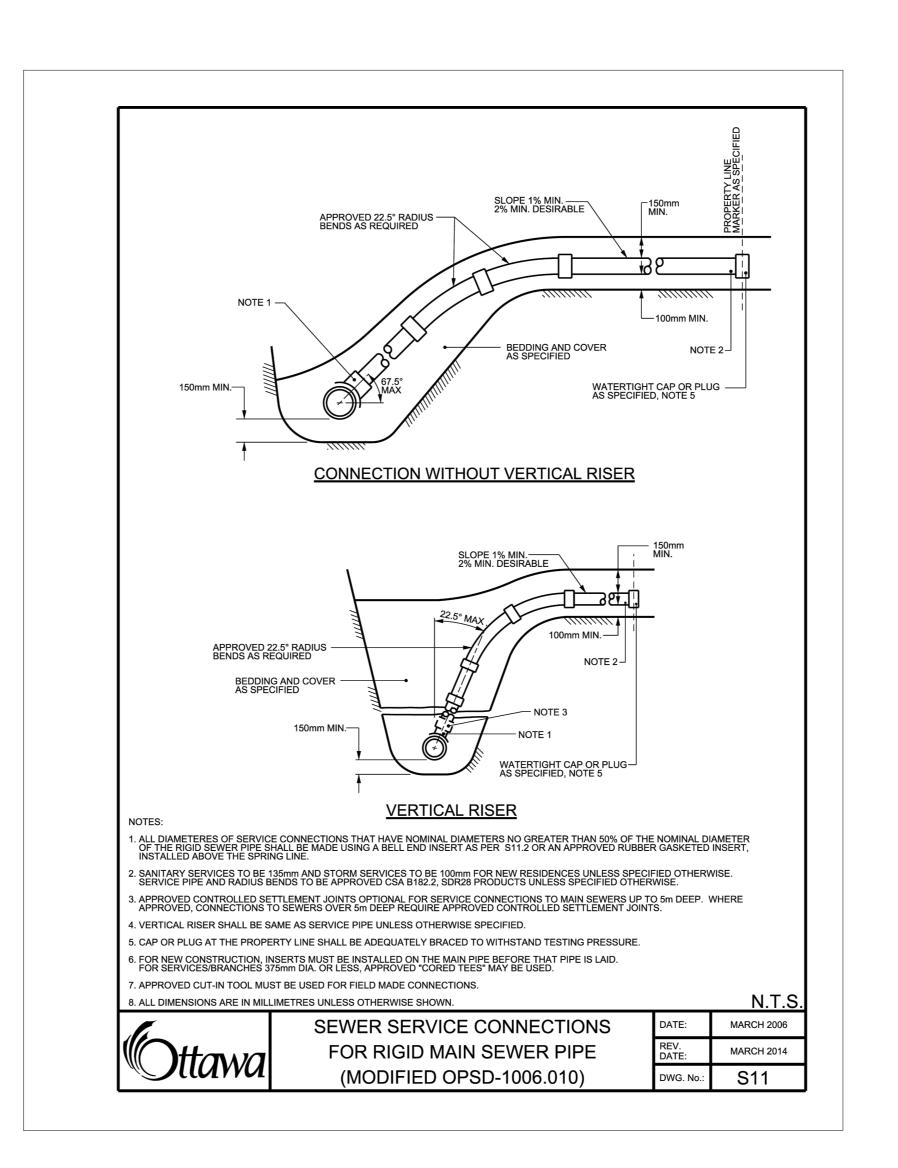
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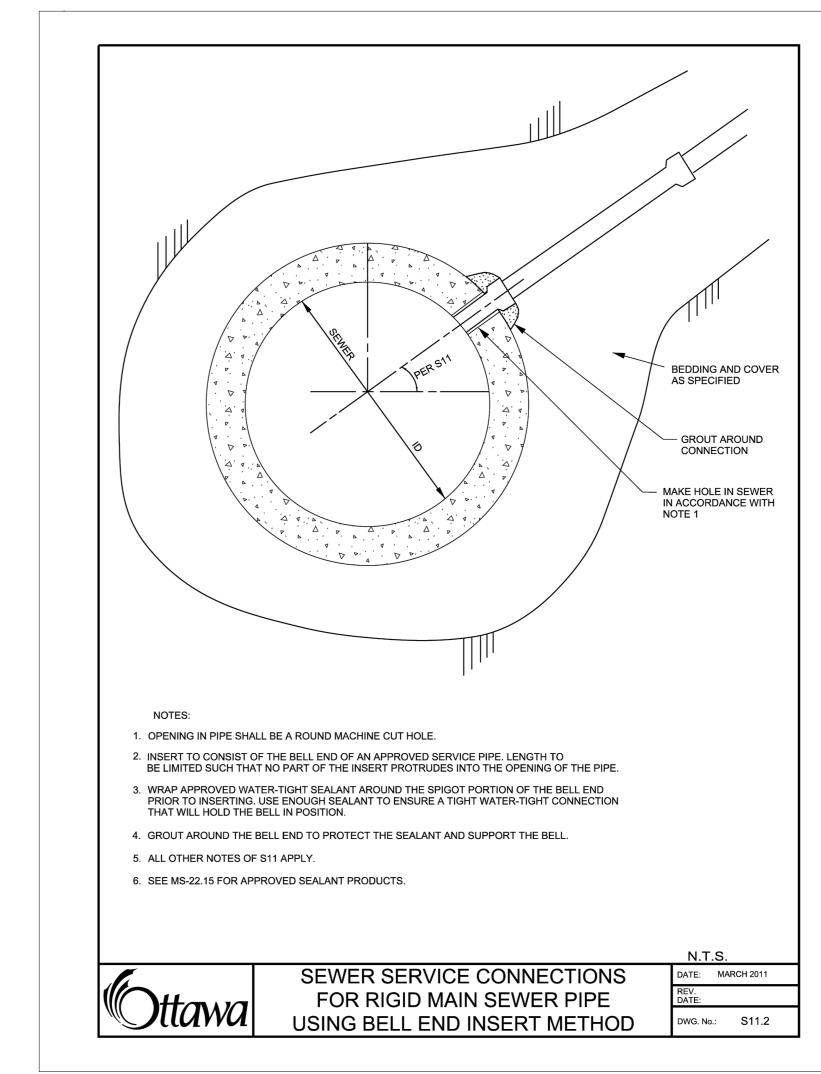
OCH FRIEL STREET / CHAPEL 200/201 FRIEL STREET

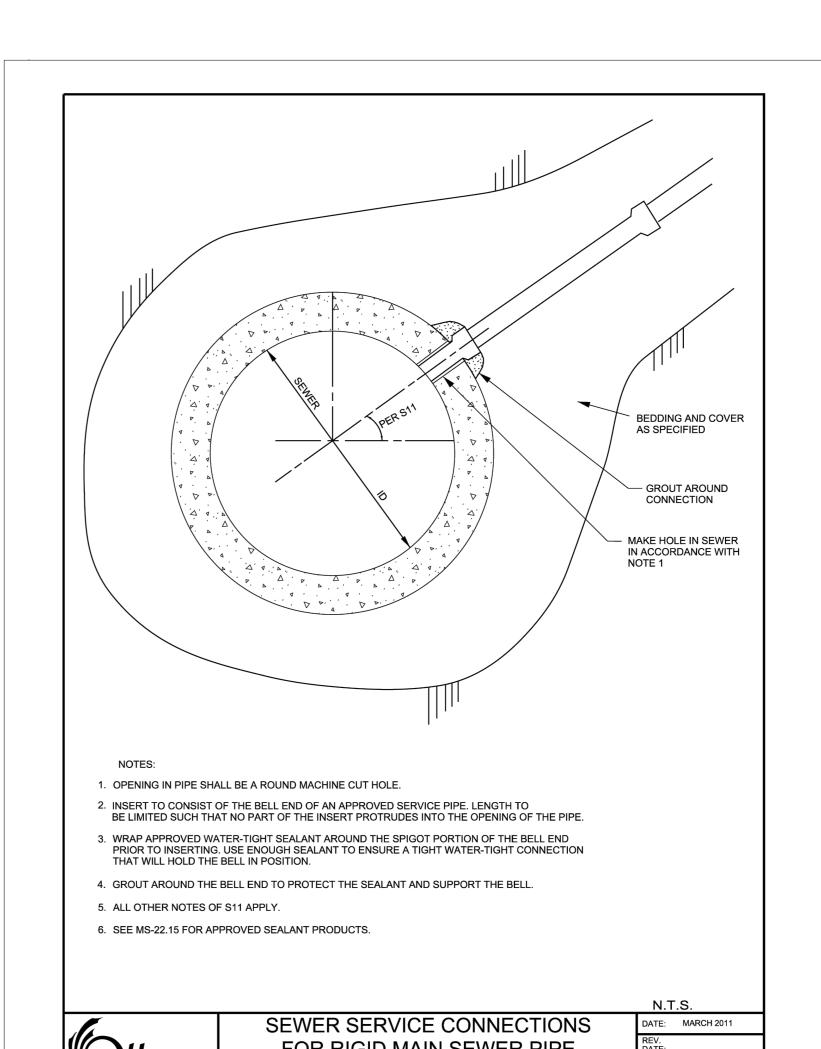
DETAILS 2

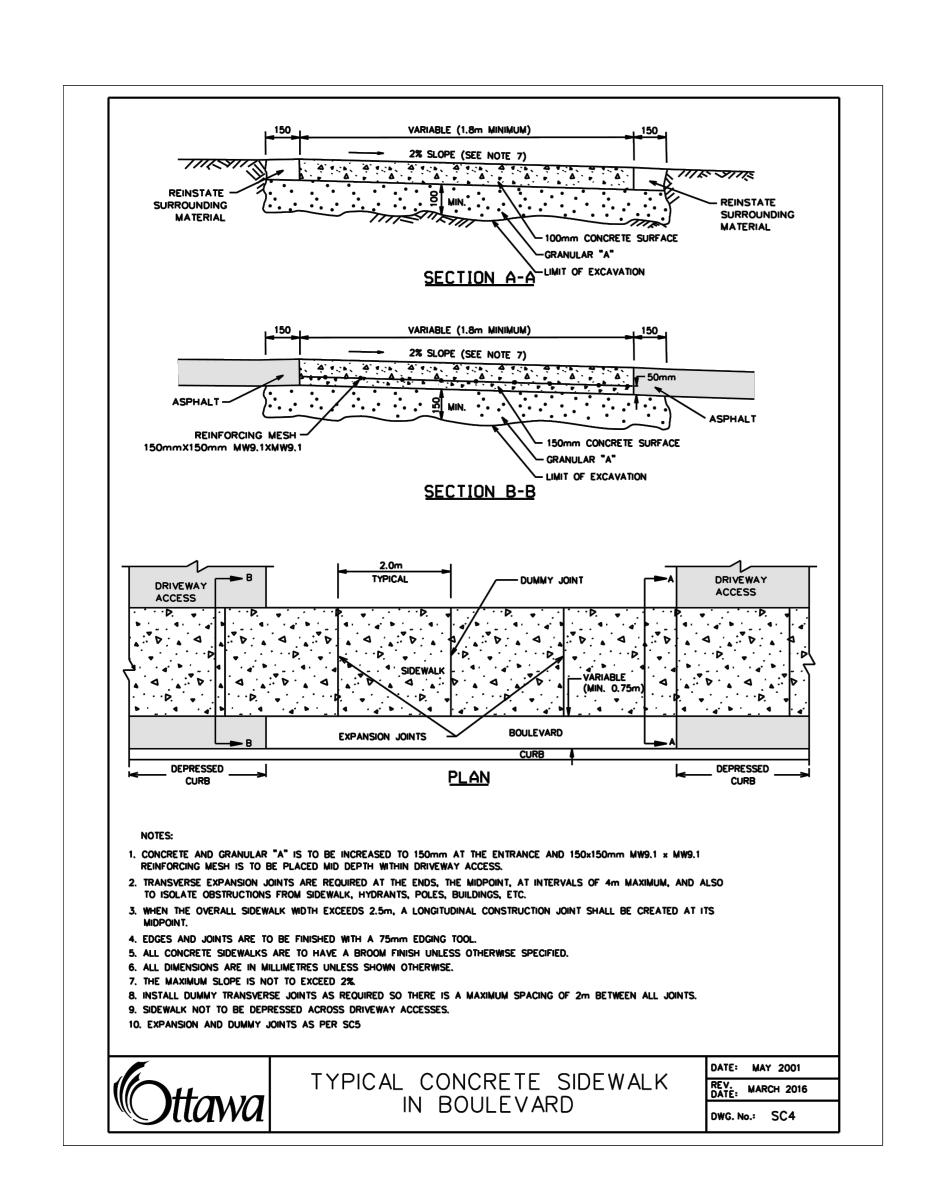


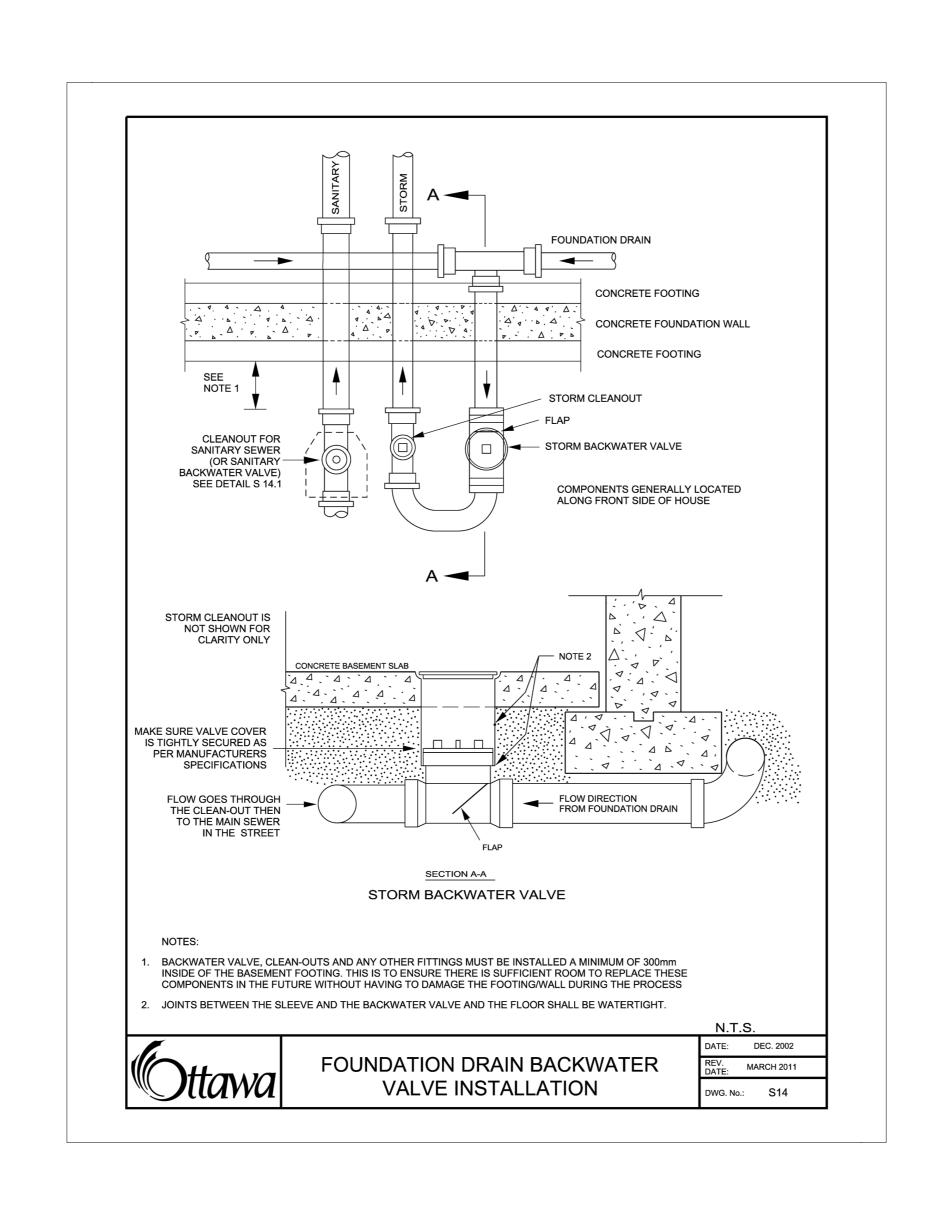


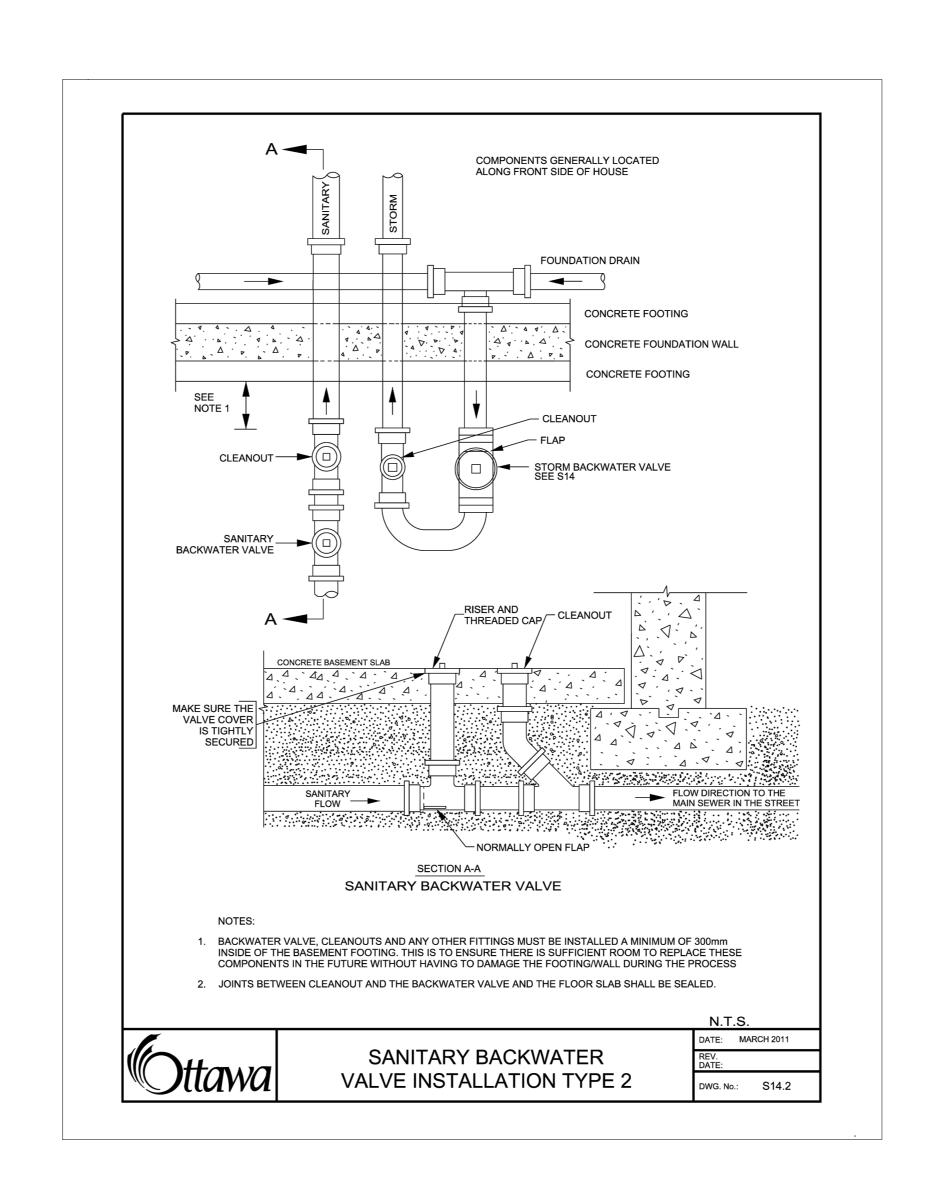


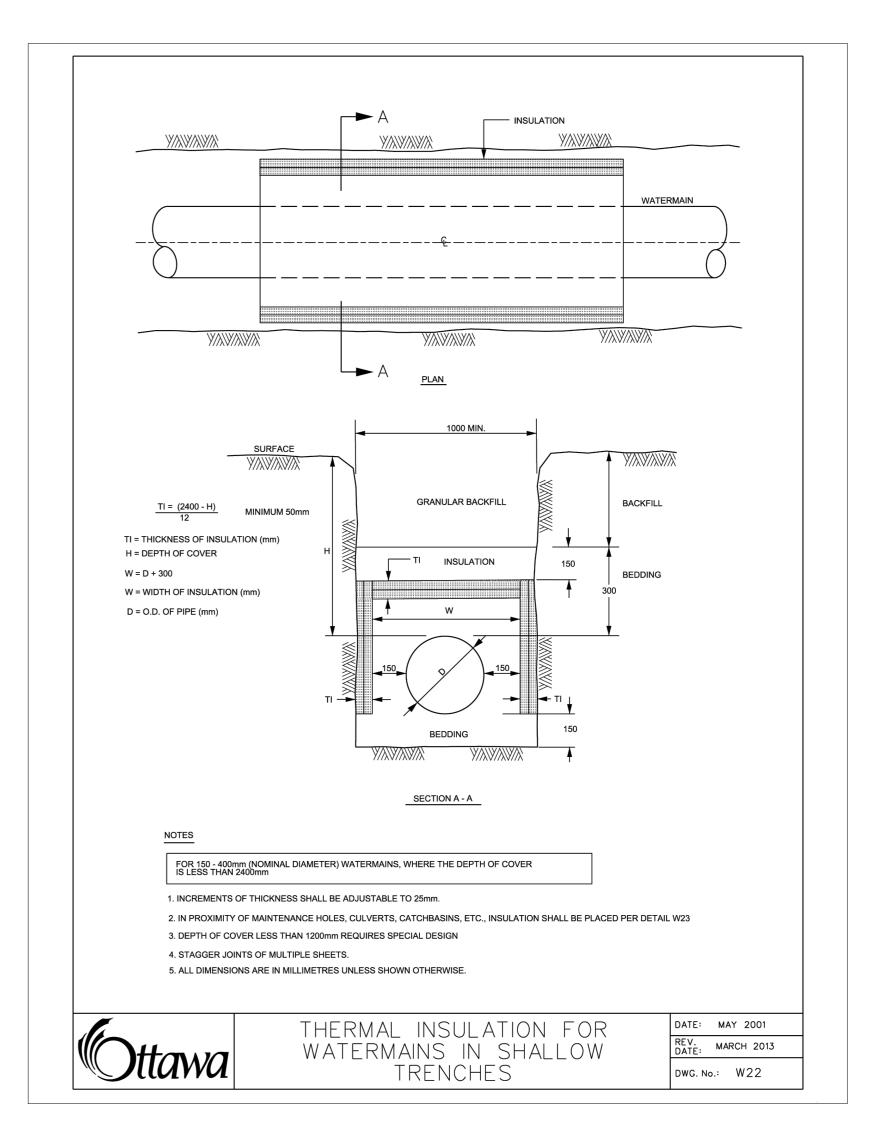


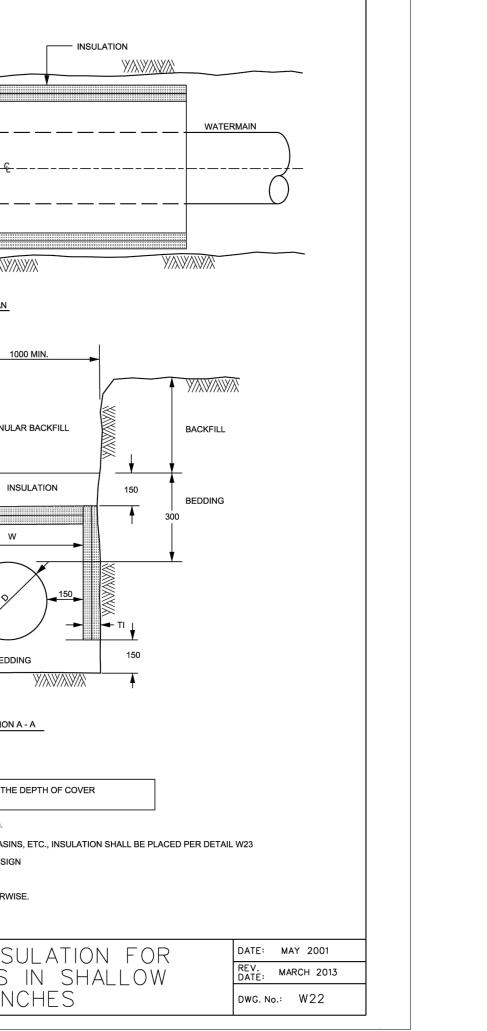


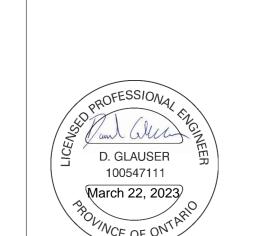






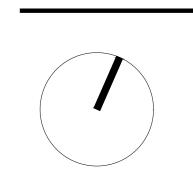






200-2932 BASELINE ROAD, OTTAWA, ON K2H 1B

1 2023 MAR 22 ISSUED FOR SITE PLAN APPROVAL



Scale: N/A

Date:

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OCH FRIEL STREET / CHAPEL 200/201 FRIEL STREET

DETAILS 3

- 40mm HL3 OR SP12.5 PG 58-34 ASPHALT - 50mm HL8 OR SP19.0 PG 58-34 ASPHALT TOP VIEW - - 50mm HL3 OR SP12.5 PG 58-34 ASPHALT - 150mm GRANULAR 'A' MEETING OPSS 1010 - 150mm GRANULAR 'A' MEETING OPSS 1010 SPECIFICATION SPECIFICATION COMPACTED TO 98% SPMDD COMPACTED TO 98% SPMDD - 300mm GRANULAR 'B' TYPE II MEETING OPSS 1010 - 450mm GRANULAR 'B' TYPE II MEETING OPSS 1010 SPECIFICATION COMPACTED TO 98% SPMDD SPECIFICATION COMPACTED TO 98% SPMDD - 8.40m -CBMH1 INSPECTION POINT INV = 59.04 COMPACTED OR UNDISTURBED **DETENTION TANK** SUBGRADE APPROVED BY 2 LAYERS STORMBRIXX SD GEOTECHNICAL ENGINEER COMPACTED OR UNDISTURBED GROSS VOLUME = $42.3M^3$ SUBGRADE APPROVED BY HEAVY DUTY PAVEMENT GEOTECHNICAL ENGINEER LIGHT DUTY PAVEMENT OVERALL HEIGHT = 1.22m TANK BOTTOM INV = 59.04 TANK TOP ELEV. 60.26 250mm PIPE CONNECTION INV = 59.07SIDE VIEW **STORM WATER STORAGE TANK NOTES:** CBMH1 INSPECTION POINT-SUBMIT SHOP DRAWINGS STAMPED BY AN ENGINEER LICENSED TO PRACTICE IN ONTARIO. INSPECTION POINT ALL COVERS TO BE OPSD 401.010 TYPE A OR APPROVED EQUIVALENT TANK TOP ELEV. 60.26 INSTALLATION (INCLUDING BEDDING, COMPACTION, AND BACKFILL) SHALL - 200mm PORTLAND CEMENT CONCRETE REINFORCED WITH MESH - - 200mm PORTLAND CEMENT CONCRETE HWL 100 YEAR-BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S - 150mm GRANULAR 'A' MEETING OPSS 1010 SPECIFICATION - 150mm GRANULAR 'A' MEETING OPSS 1010 COMPACTED TO 98% SPMDD ELEV. 60.17 RECOMMENDATIONS. SPECIFICATION COMPACTED TO 98% SPMDD - 450mm GRANULAR 'B' TYPE II MEETING OPSS 1010 - 300mm GRANULAR 'B' TYPE II MEETING OPSS 1010 SPECIFICATION COMPACTED TO 98% SPMDD ON COMPLETION OF INSTALLATION, SUBMIT CCTV VIDEO OF TANK SPECIFICATION COMPACTED TO 98% SPMDD INTERIOR AND LETTER FROM TANK SUPPLIER CONFIRMING THAT HWL 5 YEAR-INSTALLATION WAS CARRIED OUT IN ACCORDANCE WITH THEIR ELEV. 59.25 RECOMMENDATIONS. TANK TO BE DESIGNED FOR DEPTH OF FILL AS INDICATED BY GRADING TANK INV=59.04— PLAN AND HS20 LOADING. 6. TANK TO BE WATERTIGHT (I.E. SUPPLY AND INSTALL WATERTIGHT 250mm PIPE CONNECTION— COMPACTED OR UNDISTURBED
 SUBGRADE APPROVED BY GEOMEMBRANE). INV = 59.04AFTER INSTALLATION PHYSICAL PROTECTION (BARRIERS OR EQUIVALENT) GEOTECHNICAL ENGINEER COMPACTED OR UNDISTURBED SUBGRADE APPROVED BY GEOTECHNICAL ENGINEER SHALL BE ERECTED TO PROTECT TANK FROM DAMAGE DUE TO

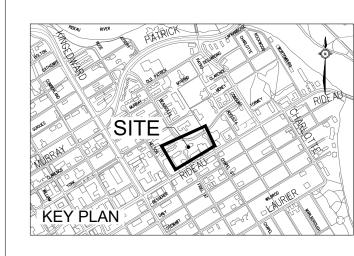
LIGHT DUTY CONCRETE

HEAVY DUTY CONCRETE N.T.S.

CONSTRUCTION EQUIPMENT



HERSHFIELD 200-2932 BASELINE ROAD, OTTAWA, ON K2H 1B1



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OCH FRIEL STREET / CHAPEL

Project No: 220262300

RT 9 4R-352 o Easement / 37 & NS194180 PLAN 4R-352 Sidewalk -0.30 East PART 2 MH-S T/G=60.83 InvW=57.02(City) InvE=57.33(City) PLAN 4R-24641

Subject to Easement

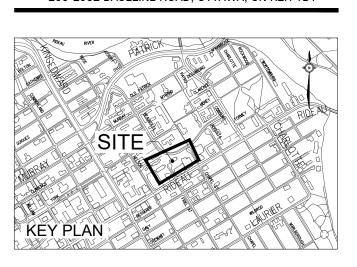
per Inst. NS276450 MH-S T/G=62.99 InvS=59.01(City) PLAN 4R-826 Concrete Sidewalk T/G=62.84 | InvW=60.09 (City) InvE=60.76 (City) InvS=60.64 (City) Existing 525mm¢ Storm Sewer Existing 600mmø Storm Sewer <u>Easement</u> Existing 300mmø Sanitary Sewer_ — - MH-S-T/G=62.80 MH-S .T/G=60.40 W MH-STD T/G=60.42 Evidence of UG Water \ (By Locates/PaintMarks) Sabject to Easement per _Fire Hydrant | (Top of Spindle) Elevation=61.91 13 Storey Concrete Block Apartment Building √Ramp to P1⁄≦⊸ PARKING Approximate Building Outline Upper Levels (Level 6 & 11) 0.1 North CLF-Asphalt Parking Lot 0 4 2 1 3 -Concrete Curb EP Asphalt Sidewalk EP N 58°34'40" E 2 Storey REGISTERED Brick & Metal Sided Building Building No. 160 22 Storey Brick & Metal Sided Apartment Building PART 1 PLAN 4R-5512 PIN 04213 | - 0182 Rideau Streetz Lots

NOTES:

 COMPLETE ALL REMOVALS AND ABANDONMENTS IN ACCORDANCE WITH OPSS MUNI. 510.



MORRISON HERSHFIELD 200-2932 BASELINE ROAD, OTTAWA, ON K2H 1B1



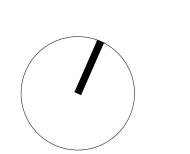
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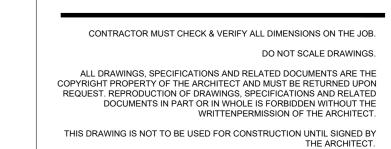
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LEGEND

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

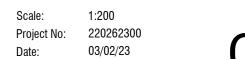


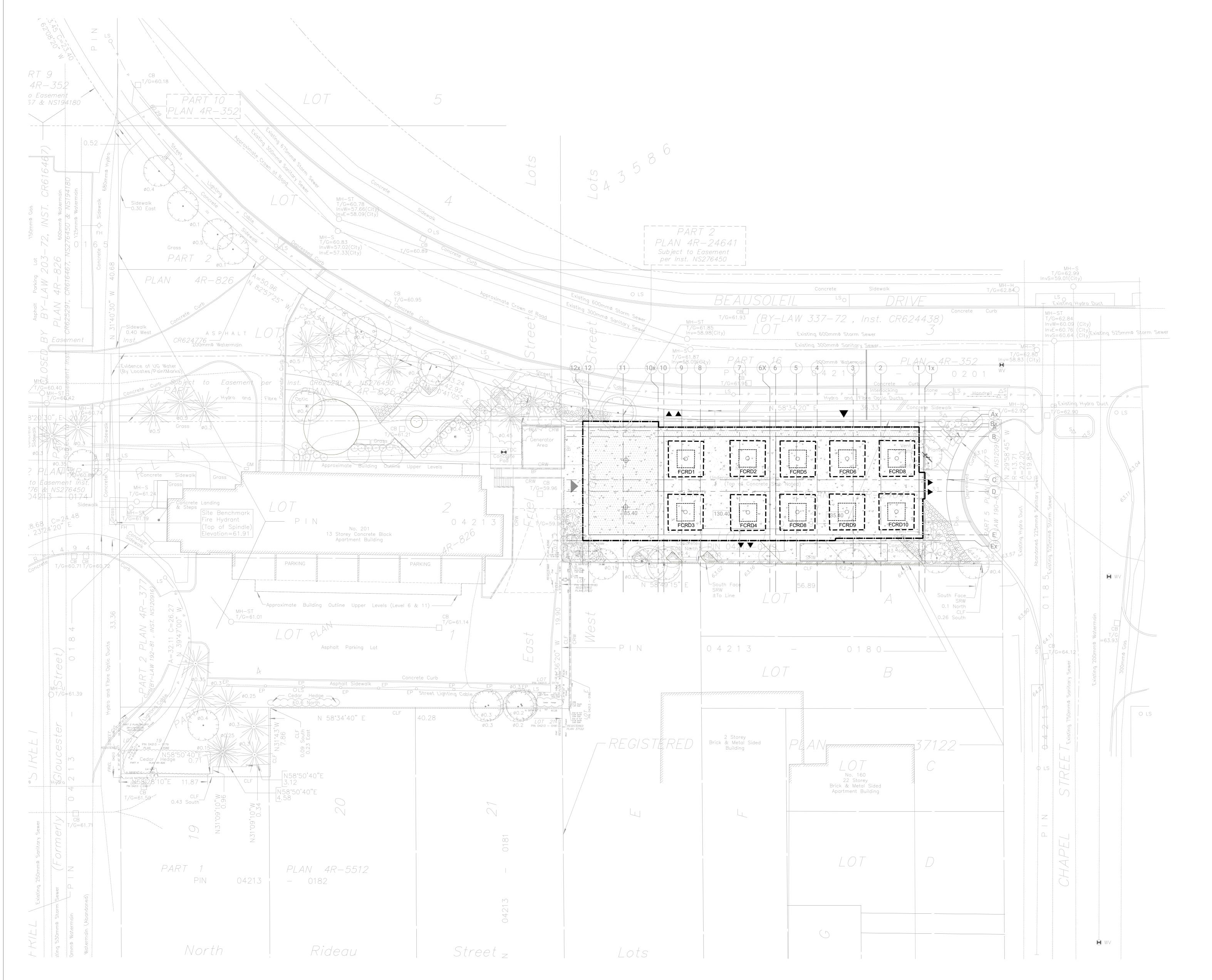




OCH FRIEL STREET / CHAPEL
200/201 FRIEL STREET

REMOVALS PLAN





LEGEND

FLOW CONTROLLED ROOF DRAIN

UNCONTROLLED FLOW ROOF DRAIN

AMENITY/UNOCCUPIABLE ROOF - NO FLOW CONTROL

5 YR=22mm DEPTH

100 YR=60mm 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	0.315			
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			

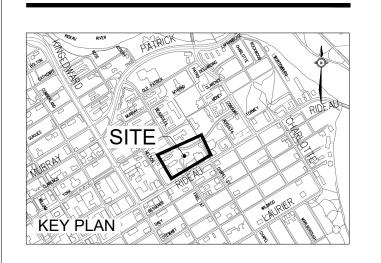
NOTES:

 PRODUCT - ADJUSTABLE ACCUTROL WEIR WEIR SETTING - 3/4 FLOW RATE APPROX. 0.8L/s IN 100-YR EVENT

2. FOR SCUPPER / EMERGENCY OVERFLOW LOCATIONS / ELEVATION REFER TO ARCHITECTURAL



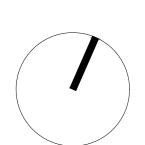
MORRISON HERSHFIELD 200-2932 BASELINE ROAD, OTTAWA, ON K2H 1B1



No. Date

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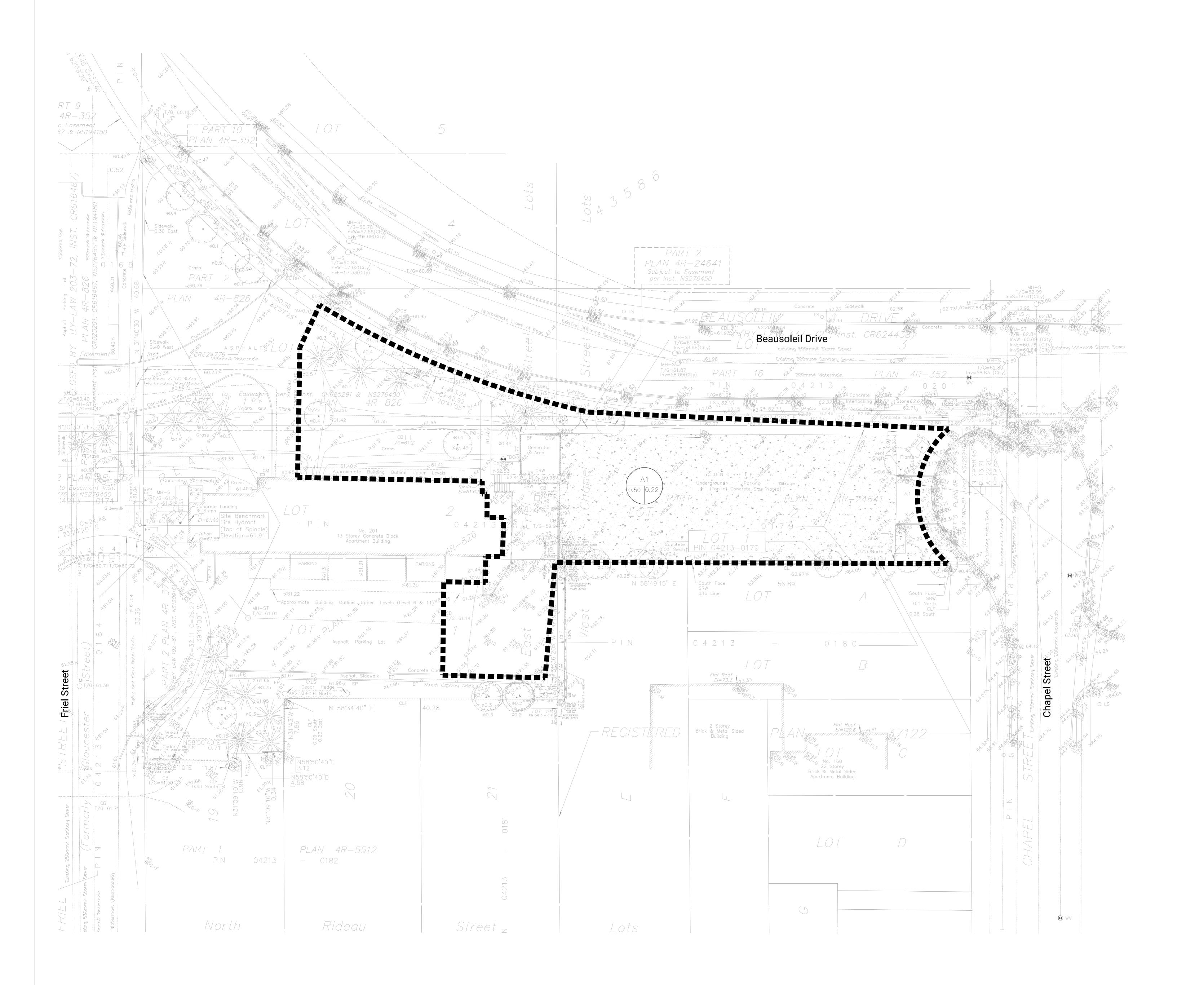
OCH FRIEL STREET / CHAPEL

ROOF DRAIN LAYOUT & PONDING



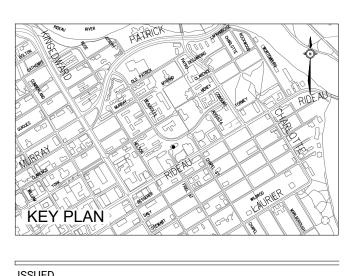
C701

200/201 FRIEL STREET





MORRISON HERSHFIELD 200-2932 BASELINE ROAD, OTTAWA, ON K2H 1B1



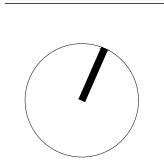
LEGEND

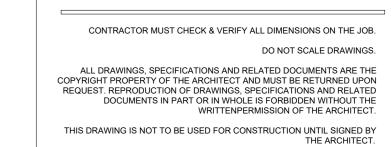
RUNOFF — COEFFICIENT % DRAINAGE AREA CHARACTERISTICS

CATCHMENT AREAS

No. Date Description
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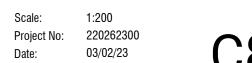


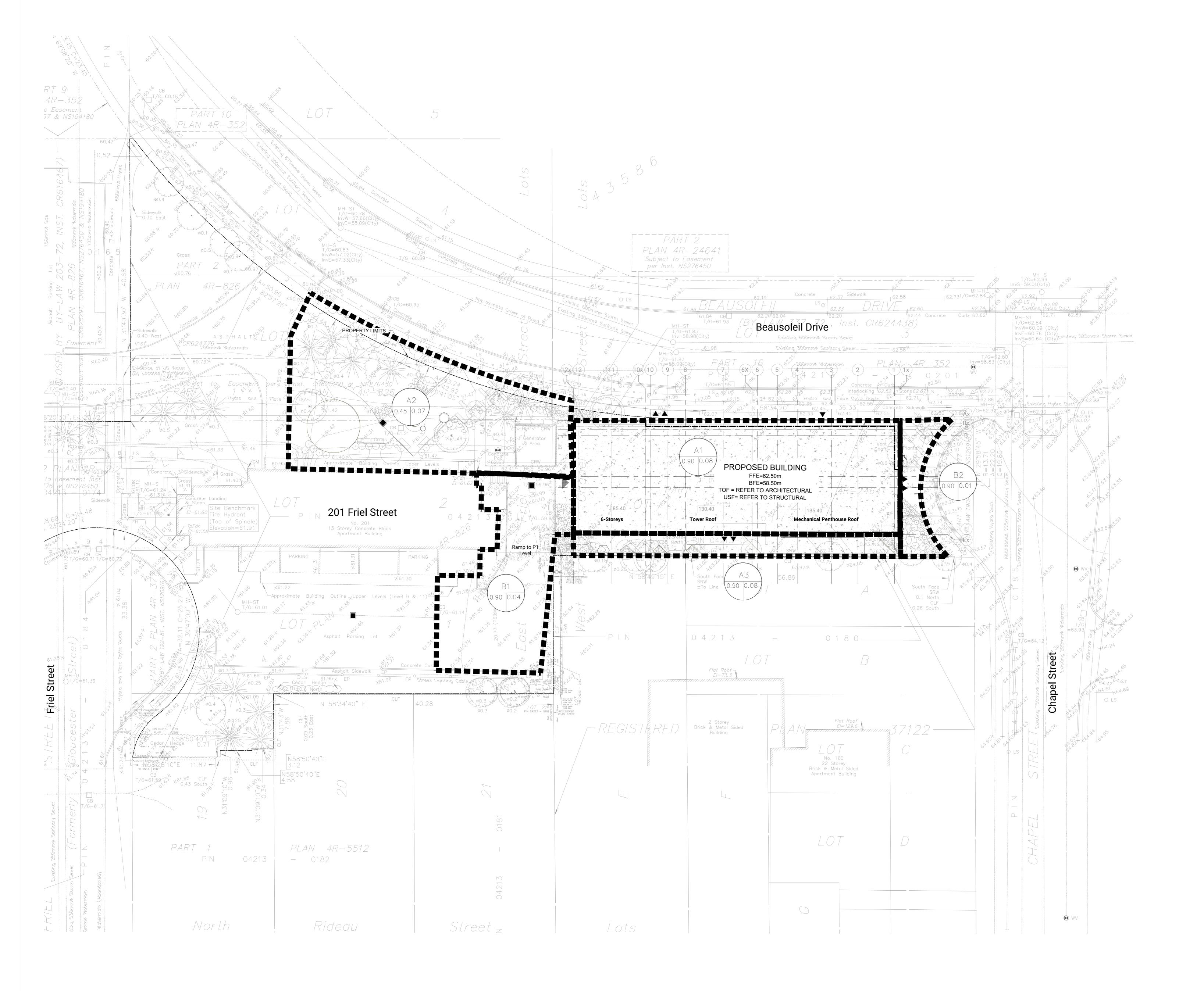




OCH FRIEL STREET / CHAPEL
200/201 FRIEL STREET

EXISTING DRAINAGE AREA PLAN
Scale: 1:200





NOTES

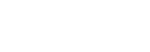
1. A1, A2 & A3 ARE PROPOSED CONTROLLED CATCHMENTS.
B1 & B2 ARE PROPOSED UNCONTROLLED CATCHMENTS.

LEGEND

AREA ID DRAINAGE AREA CHARACTERISTICS

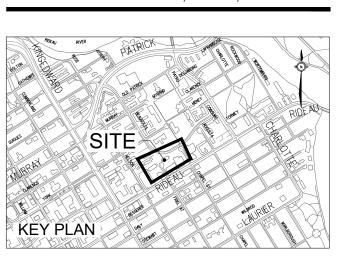
RUNOFF AREA ha
%

CATCHMENT AREAS

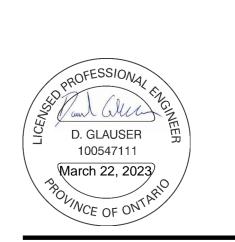


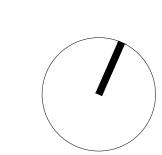


diamond SMX SWC schmitt SMX



No. Date Description
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OCH FRIEL STREET / CHAPEL
200/201 FRIEL STREET

PROPOSED DRAINAGE AREA PLAN
Scale: 1:200

