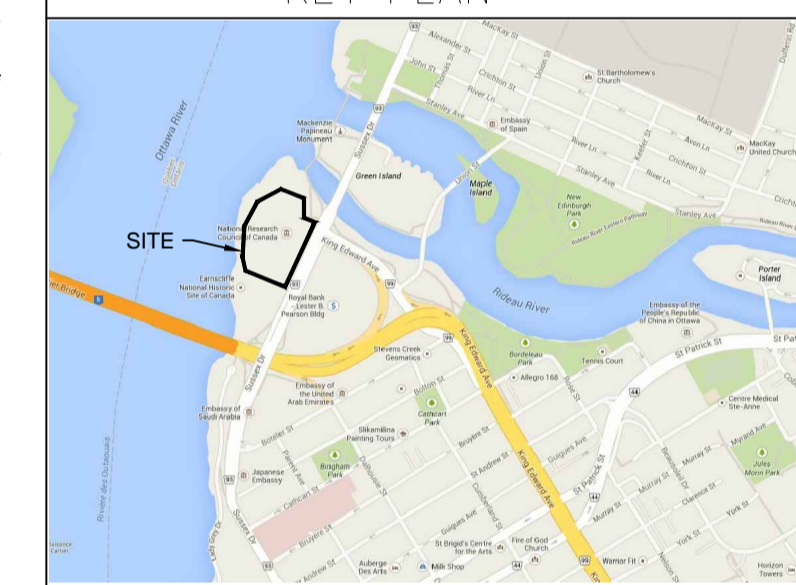


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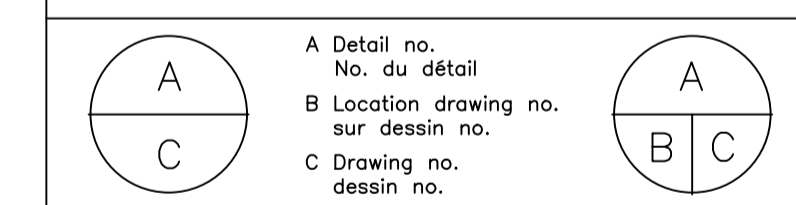
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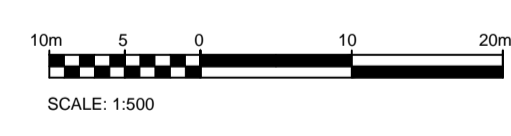
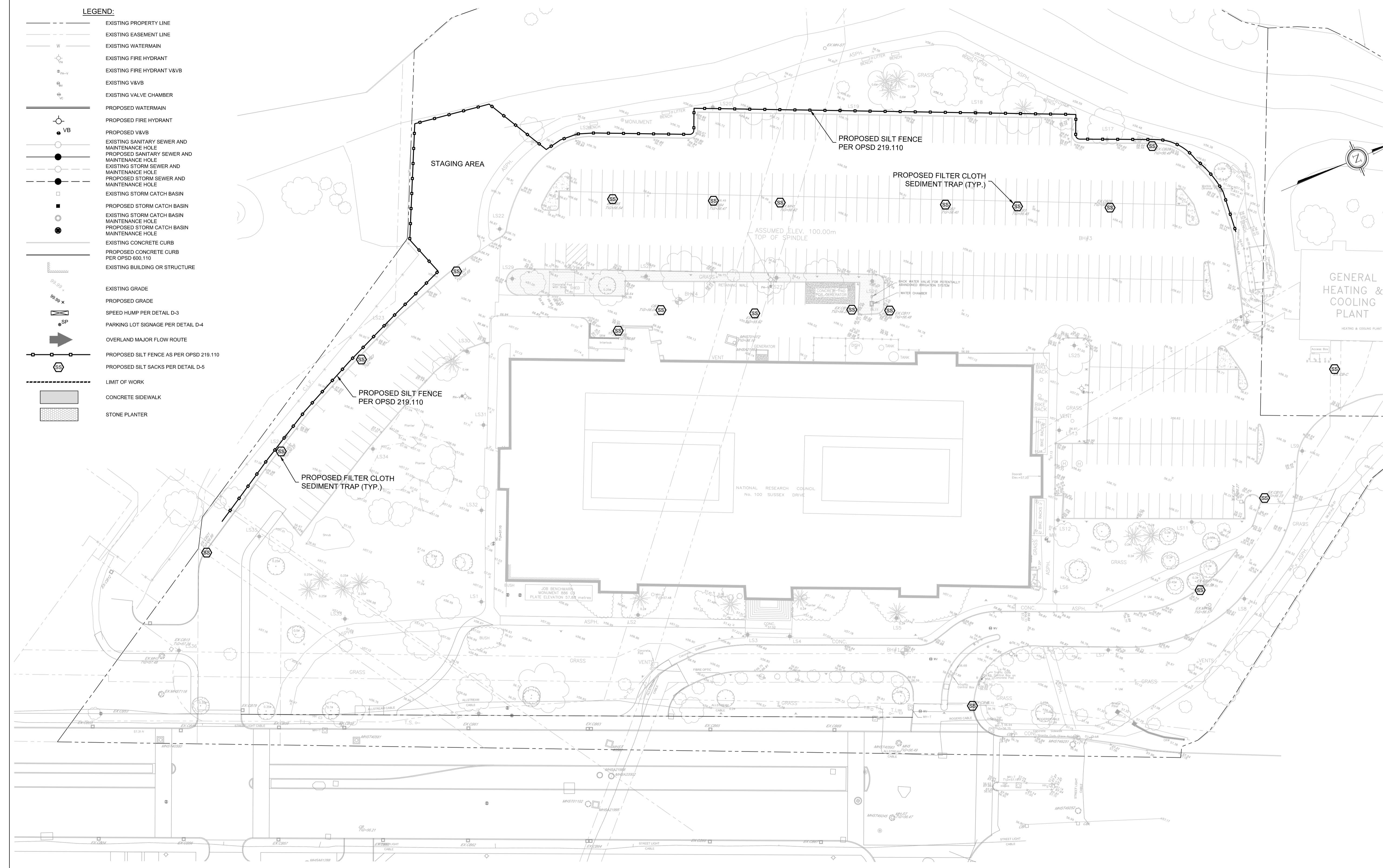
project **100 SUSSEX DRIVE WATERMAIN REPLACEMENT AND PARKING LOT REHABILITATION** projet

**100 SUSSEX DRIVE**

drawing **EROSION AND SEDIMENT CONTROL PLAN** dessin

designed	conçu	date	date
MT / JN		JUNE 2016	
drawn	dessiné	scale	échelle
JN		1:500	
checked	vérifié	sheet	feuille
MT		C01 of/de C08	
approved	approuvé	W.O.no.	D.T.no.
RT		A1006436-01	
dwg.no.	dessin no.		

**5226-C01**



**EROSION AND SEDIMENT CONTROL (ESC) MEASURES:**

\*\* CONTRACTOR IS RESPONSIBLE FOR ALL INSTALLATION, MONITORING, REPAIR AND REMOVAL OF ALL EROSION AND SEDIMENT CONTROL FEATURES \*\*

**1. PRIOR TO START OF CONSTRUCTION:**

- PRIOR TO THE REMOVAL OF ANY VEGETATIVE COVER, MOVING OF SOIL AND CONSTRUCTION:
- INSTALL SILT FENCE ALONG AREAS TO BE DISTURBED (SEE PLAN FOR LOCATION).
- INSTALL FILTER CLOTH ON ALL MANHOLE COVERS.
- INSTALL SILTSACK FILTERS IN ALL CONCRETE CATCH BASIN STRUCTURES.
- INSPECT MEASURES IMMEDIATELY AFTER INSTALLATION.

**2. DURING CONSTRUCTION:**

- MINIMIZE THE EXTENT OF DISTURBED AREAS AND THE DURATION OF EXPOSURE.
- PROTECT DISTURBED AREAS FROM RUNOFF.
- PROVIDE TEMPORARY COVER SUCH AS SEEDING OR MULCHING IF DISTURBED AREA WILL NOT BE REHABILITATED SHORTLY.
- INSPECT SILT FENCES, FILTER CLOTHS AND CATCH BASIN SUMPS REGULARLY AND AFTER EVERY MAJOR STORM EVENT. CLEAN AND REPAIR WHEN NECESSARY.

- ESC PLAN TO BE REVIEWED AND REVISED AS REQUIRED DURING CONSTRUCTION.
- EROSION CONTROL FENCING TO BE ALSO INSTALLED AROUND THE BASE OF ALL STOCKPILES.
- DO NOT LOCATE TOPSOIL PILES AND EXCAVATION MATERIAL CLOSER THAN 2.5m FROM ANY PAVED SURFACE, OR ONE WHICH IS TO BE PAVED BEFORE THE PILE IS REMOVED. ALL TOPSOIL PILES ARE TO BE SEEDED IF THEY ARE TO REMAIN ON SITE LONG ENOUGH FOR SEEDS TO GROW (LONGER THAN 30 DAYS).
- CONTROL WIND-BLOWN DUST OFF SITE TO ACCEPTABLE LEVELS BY SEEDING TOPSOIL PILES AND OTHER AREAS TEMPORARILY (PROVIDE WATERING AS REQUIRED).
- ALL EROSION CONTROL STRUCTURE TO REMAIN IN PLACE UNTIL ALL DISTURBED GROUND SURFACES HAVE BEEN DESTABILIZED EITHER BY PAVING OR RESTORATION OF VEGETATIVE GROUND COVER.
- NO ALTERNATE METHODS OF EROSION PROTECTION SHALL BE PERMITTED UNLESS APPROVED BY DEPARTMENTAL REPRESENTATIVE.
- CONTRACTOR IS RESPONSIBLE FOR CITY ROADWAY AND SIDEWALK TO BE CLEANED OF ALL SEDIMENT FROM VEHICULAR TRACKING ETC. AT THE END OF EACH WORK DAY.
- DURING WET CONDITIONS, TIRES OF ALL VEHICLES/EQUIPMENT LEAVING THE SITE ARE TO BE SCRAPED.
- ANY MUD/MATERIAL TRACKED ONTO THE ROAD SHALL BE REMOVED IMMEDIATELY BY HAND OR RUBBER TIRE LOADER.

- TAKE ALL NECESSARY STEPS TO PREVENT BUILDING MATERIAL, CONSTRUCTION DEBRIS OR WASTE BEING SPILLED OR TRACKED ONTO ADJACENT PROPERTIES OR PUBLIC STREETS DURING CONSTRUCTION AND PROCEED IMMEDIATELY TO CLEAN UP ANY AREAS SO AFFECTED.

**3. AFTER CONSTRUCTION:**

- PROVIDE PERMANENT COVER CONSISTING OF TOPSOIL AND SOD TO DISTURBED AREAS.
- REMOVE SILT FENCES AND FILTER CLOTHS ON CATCH BASINS AND MANHOLE COVERS AFTER DISTURBED AREAS HAVE BEEN REHABILITATED AND STABILIZED.
- INSPECT AND CLEAN CATCH BASIN SUMPS AND STORM SEWERS.

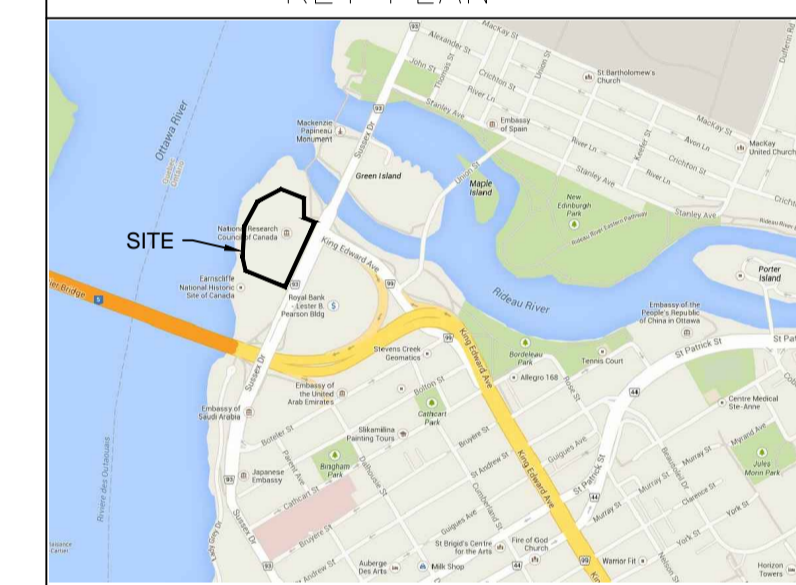


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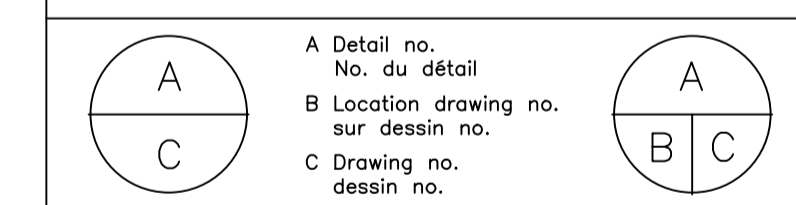
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project / projet

**100 SUSSEX DRIVE WATERMAIN REPLACEMENT AND PARKING LOT REHABILITATION**

**100 SUSSEX DRIVE**

**SITE SERVICING: WATERMAIN PLAN**

designated / conçu date / date

drawn / dessiné scale / échelle

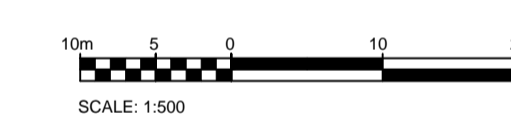
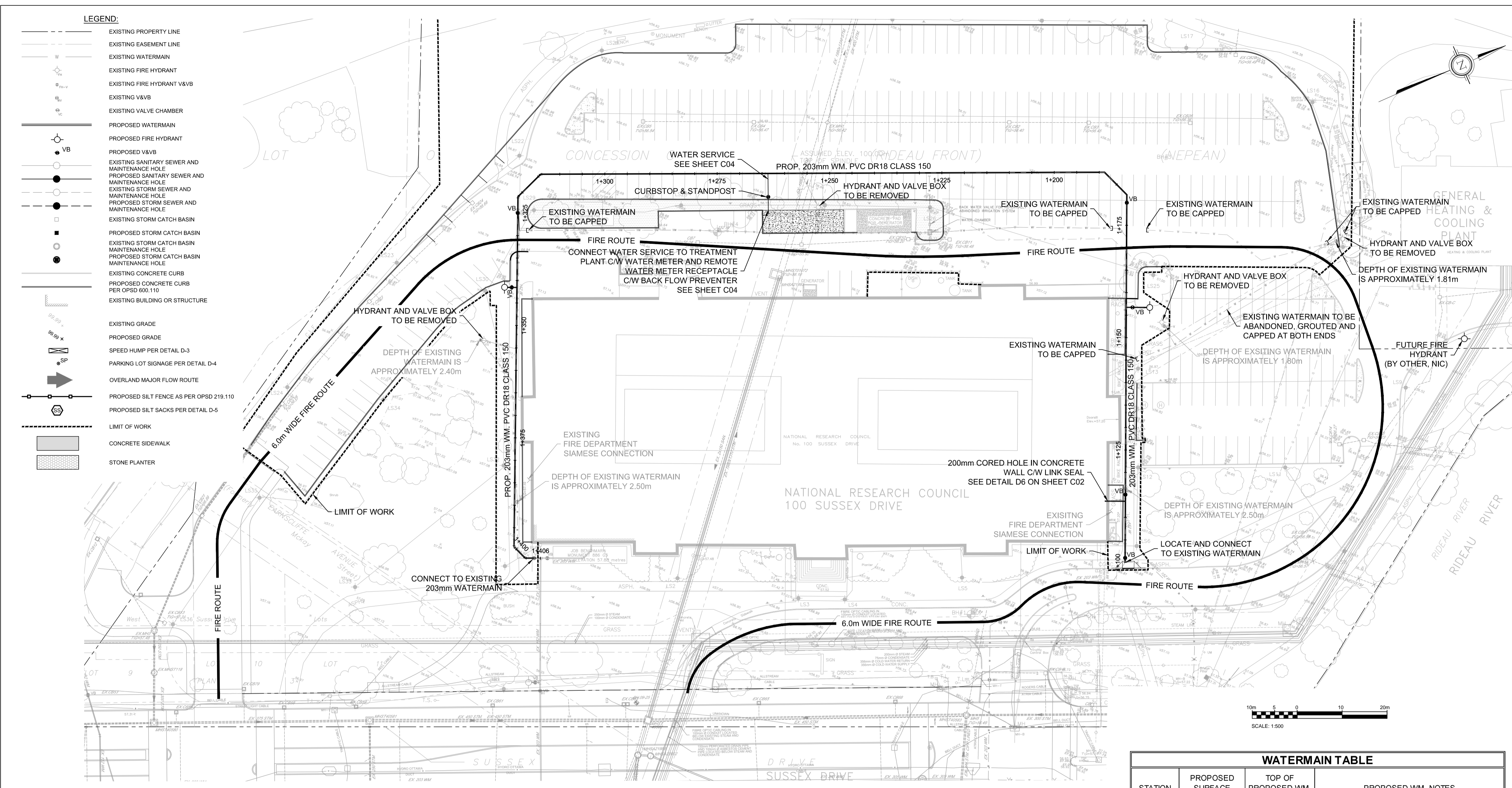
checked / vérifié sheet / feuille

approved / approuvé W.O.No. / D.T.No.

dwg.No. / dessin.No.

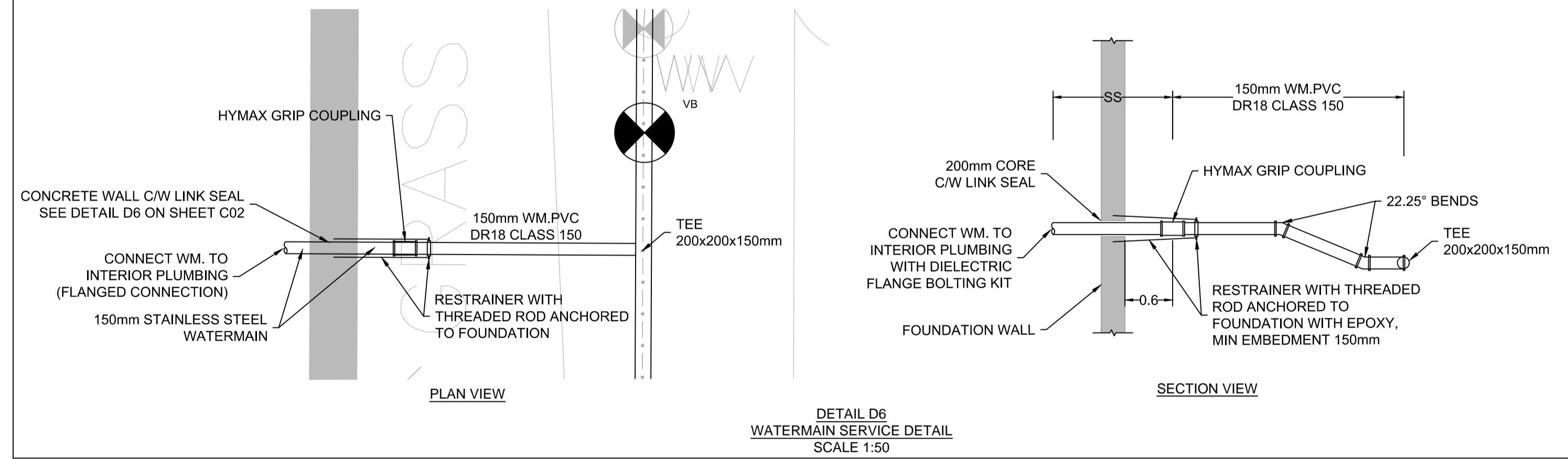
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**5226-C02**



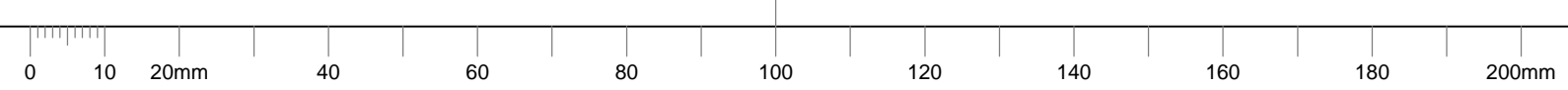
WATERMAIN TABLE			
STATION	PROPOSED SURFACE ELEVATION	TOP OF PROPOSED WM. ELEV.	PROPOSED WM. NOTES
1+100	56.95	56.95	CONNECTION TO EXIST. 203mm
1+101	56.95	54.55	PROPOSED 203mm V & VB
1+113.6	57.05	54.65	PROPOSED 203mm NEW SERVICE TO BUILDING
1+115.1	57.05	54.65	PROPOSED 203mm V & VB
1+125	57.10	54.70	
1+144.3	57.10	54.70	
1+150	57.10	54.70	
1+156.7	57.11	54.71	PROPOSED 203x152x203 TEE FOR HYDANT
1+156.7	57.11	54.71	PROPOSED 152mm V & VB FOR HYDRANT
1+156.7	57.11	54.71	PROPOSED HYDRANT
1+175	56.83	54.43	
1+180	56.76	54.36	PROPOSED 203mm V & VB
1+181.8	56.73	54.33	PROPOSED 45° BEND
1+188.8	56.73	54.33	PROPOSED 45° BEND
1+200	56.62	54.22	
1+225	56.62	54.22	
1+250	56.62	54.22	
1+275	56.68	54.28	
1+300	56.68	54.28	
1+314.3	56.69	54.29	PROPOSED 45° BEND
1+321.4	56.82	54.42	PROPOSED 45° BEND
1+325	56.85	54.45	PROPOSED 203mm V & VB
1+341.6	57.11	54.71	PROPOSED 203x152x203 TEE FOR HYDANT
1+341.6	57.11	54.71	PROPOSED 152mm V & VB FOR HYDRANT
1+341.6	57.11	54.71	PROPOSED HYDRANT
1+350	57.06	54.66	
1+375	57.02	54.62	
1+399.3	56.98	54.58	PROPOSED 45° BEND
1+402.8	56.93	54.53	PROPOSED 45° BEND
1+406	56.93	54.53	EXISTING 203mm V & VB

- ROCK TRENCH: THE PROPOSED WATERMAIN SHALL BE INSTALLED IN THE SAME TRENCH AND SAME ELEVATION AS THE EXISTING ELEVATION AND INSULATED PER CITY OF OTTAWA DETAIL W22.
- EARTH TRENCH: THE PROPOSED WATERMAIN SHALL BE INSTALLED WITH A 2.4m COVER WHERE NO BEDROCK IS ENCOUNTERED.
- ALL PROPOSED HYDRANT SHALL HAVE A MINIMUM COVER OF 1.5m AND INSULATED PER PER W22 IN CASE OF BEDROCK AND 2.4m OF COVER WHERE NO BEDROCK IS ENCOUNTERED.



**NOTES: WATERMAIN**

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- REFER TO GEOTECHNICAL INVESTIGATION REPORT NO. 13-337 DATED NOVEMBER 2013 PREPARED BY HOULE CHEVRIER ENGINEERING LTD. FOR SUBSURFACE INFORMATION.
- ALL WATERMAIN WORK AND MATERIAL SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STANDARDS.
- CONCRETE THRUST BLOCKS AND RESTRAINING AS PER CITY OF OTTAWA DETAILS, W25.3, W25.4, W25.5, W25.6.
- CATHODIC PROTECTION REQUIRED FOR ALL IRON FITTINGS PER CITY OF OTTAWA DETAILS, W40, W42, W47, W49.
- TRACER WIRE TO BE INSTALLED ALONG ALL WATERMANS AND LATERALS AS PER CITY OF OTTAWA DETAIL, W36.
- A PRESSURE TEST FOLLOWED BY A LEAKAGE TEST PER CITY OF OTTAWA STANDARDS SHALL BE CONDUCTED.
- THE WATERMAIN SHALL BE DISINFECTED BY CITY OF OTTAWA AND TO THEIR SATISFACTION PRIOR TO CONNECTION TO THE MUNICIPAL SYSTEM.
- WATER VALVES ON EXISTING MUNICIPAL WATER SYSTEM ARE TO BE OPERATED BY MUNICIPAL STAFF ONLY.
- CONNECTION OF PROPOSED SERVICE TO THE EXISTING MUNICIPAL SYSTEM SHALL BE CARRIED OUT BY THE CITY. CONNECTION FROM THE MAIN TO THE PROPERTY LINE SHALL BE INSPECTED BY THE CITY OF OTTAWA PRIOR TO BACKFILLING.
- THE CONTRACTOR SHALL PREPARE A WATERMAIN STAGING PLAN TO THE SATISFACTION OF THE DEPARTMENTAL REPRESENTATIVE TO ENSURE NO DISRUPTION OF THE WATER SUPPLY TO THE BUILDING.
- CONTRACTOR TO PICK UP WATER PERMIT AT CITY OFFICE.

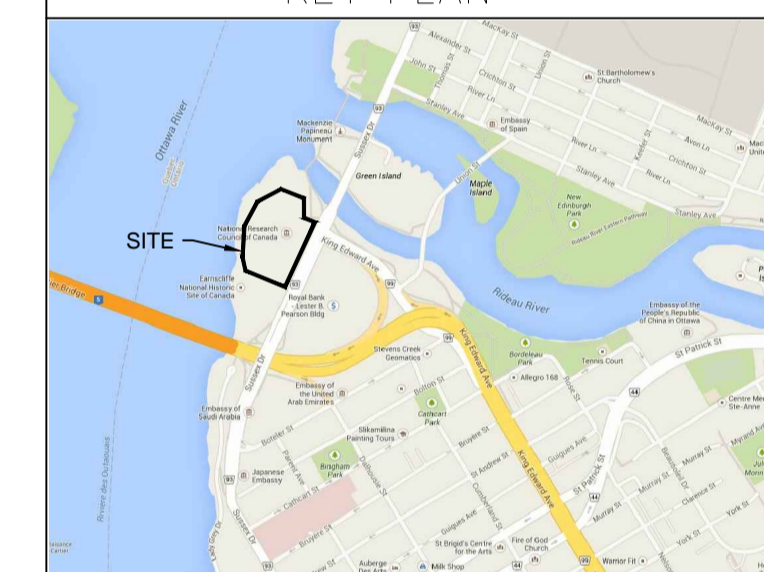




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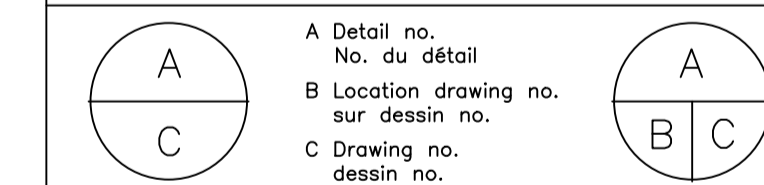
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project  
**100 SUSSEX DRIVE WATERMAIN REPLACEMENT AND PARKING LOT REHABILITATION**  
project

**100 SUSSEX DRIVE**

drawing  
**SITE SERVICING: STORM SEWER PLAN**  
dessin

designed **MT / JN** conçu **JUNE 2016** date

drawn **JN** dessiné scale **1:500** échelle

checked **MT** vérifié sheet **C03 of/de C08** feuille

approved **RT** approuvé W.O.no. **A1006436-01** D.T.no.

dwg.no. **5226-C03** dessin no.

LEGEND:

- EXISTING PROPERTY LINE
- EXISTING EASEMENT LINE
- EXISTING WATERMAIN
- EXISTING FIRE HYDRANT
- EXISTING FIRE HYDRANT V&VB
- EXISTING V&VB
- EXISTING VALVE CHAMBER
- PROPOSED WATERMAIN
- PROPOSED FIRE HYDRANT
- PROPOSED V&VB
- EXISTING SANITARY SEWER AND MAINTENANCE HOLE
- PROPOSED SANITARY SEWER AND MAINTENANCE HOLE
- EXISTING STORM SEWER AND MAINTENANCE HOLE
- PROPOSED STORM SEWER AND MAINTENANCE HOLE
- EXISTING STORM CATCH BASIN
- PROPOSED STORM CATCH BASIN
- EXISTING STORM CATCH BASIN MAINTENANCE HOLE
- PROPOSED STORM CATCH BASIN MAINTENANCE HOLE
- EXISTING CONCRETE CURB
- PROPOSED CONCRETE CURB PER OPSD 600.110
- EXISTING BUILDING OR STRUCTURE
- EXISTING GRADE
- PROPOSED GRADE
- SPEED HUMP PER DETAIL D-3
- PARKING LOT SIGNAGE PER DETAIL D-4
- OVERLAND MAJOR FLOW ROUTE
- PROPOSED SILT FENCE AS PER OPSD 219.110
- PROPOSED SILT SACKS PER DETAIL D-5
- LIMIT OF WORK
- CONCRETE SIDEWALK
- STONE PLANTER

NOTE TO CONTRACTOR:  
INVERT OF 400mm Ø STORM SEWER TO BE CONFIRMED  
T/G IS LOCATED AT BASE OF RETAINING WALL  
GRATE IS WELDED

OPEN JOINT IN 400mm Ø STORM SEWER  
TO BE REPAIRED USING STAINLESS STEEL  
GROUTING SLEEVE / SEWER SEALER  
BY LINK-PIPE OR APPROVED EQUIVALENT

REMOVE EX.CB20 AND  
ABANDONED STORM SEWER  
PLUG TO BE PROVIDED FOR SEWER

CAP EXISTING OPENINGS AND PROVIDE NEW  
OPENINGS FOR PROPOSED PIPES AND  
REPLACE EXISTING COVER WITH OPSD 401.010  
TYPE B COVER

LOWER T/G TO ELEV. 56.40  
REPLACE COVER WITH OPSD  
401.010 TYPE 'B'  
41.0m - 300mm STM  
PVC SDR 35 @ 0.50%

40.5m - 375mm STM.  
PVC SDR 35 @ 0.50%

40.3m - 300mm STM.  
PVC SDR 35 @ 0.75%

CB100  
T/G=56.44  
INV. (N)=54.50

REMOVE EX.CB4

EX.MH1  
T/G=56.40  
INV. (S)=54.29  
INV. (N)=54.29  
INV. (E)=54.24  
INV. (W)=52.23

CBMH102  
T/G=56.35  
INV. (N)=54.52  
INV. (S)=54.49

REMOVE EX.CB3

CB104  
T/G=56.30  
INV. (S)=54.79

LOWER T/G TO  
ELEV. 56.00

7.1m - 300mm STM.  
PVC SDR 35 @ 1.0%

STMH 106  
T/G= 56.18  
INV. (W)=54.45  
INV. (NE)=54.55  
INV. (S)=55.12

ABANDON SEWER  
REMOVE EX.CB10

ABANDON SEWER  
REMOVE EX.CB11

CB105  
T/G= 56.00  
INV. (W)=54.62

ADJUSTMENT RINGS  
TO BE REPLACED

LIMIT OF WORK

LIMIT OF WORK

COLLAPSED STORM SEWER  
CLEAR DEBRIS INSIDE PIPE AND  
RELINER WITH CIPP LINER  
PIPE SIZE = 250mm  
LENGTH = 8.1m

STORM MAINTENANCE HOLE SCHEDULE

STRUCTURE NO.	TYPE	T/G	OPSD DETAIL NO.		COMMENTS
			STRUCTURE	GRATE	
CB100	STM	56.44	705.010	400.020	REMOVE STRUCTURE
EX.CB4	STM	-	-	-	REMOVE STRUCTURE
EX.MH1	STM	56.40	401.010	401.010	TYPE 'B' COVER, LOWER T/G FROM 56.42 TO 56.40
CBMH102	STM	56.35	701.010	401.010	TYPE 'B' COVER
EX.CB3	STM	-	-	-	REMOVE STRUCTURE
CB104	STM	56.30	705.010	400.020	REMOVE STRUCTURE, CAP AND ABANDON PIPE
EX.CB20	STM	56.40	-	-	TYPE 'B' COVER, LOWER T/G FROM 56.42 TO 56.40
EX.MH1	STM	56.40	401.010	401.010	REMOVE STRUCTURE
CB105	STM	56.00	705.010	400.020	REMOVE STRUCTURE
STMH106	STM	56.18	701.010	401.010	TYPE 'B' COVER
EX.CB7	STM	56.00	-	-	LOWER T/G FROM 56.04 TO 56.00
EX.CB8	STM	56.18	-	-	REMOVE STRUCTURE
EX.CB10	STM	-	-	-	REMOVE STRUCTURE
EX.CB11	STM	-	-	-	REMOVE STRUCTURE
EX.MHST01072	STM	56.15	-	-	REMOVE STRUCTURE
EX.CB24	STM	56.68	-	-	REPLACE ADJUSTEMENT RINGS
EX.CB23	STM	56.70	-	-	
EX.CB22	STM	56.76	-	-	



C



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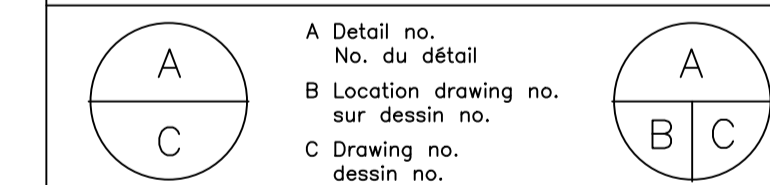
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 projet

drawing  
**SITE SERVICING: SANITARY SEWER PLAN**  
 dessin

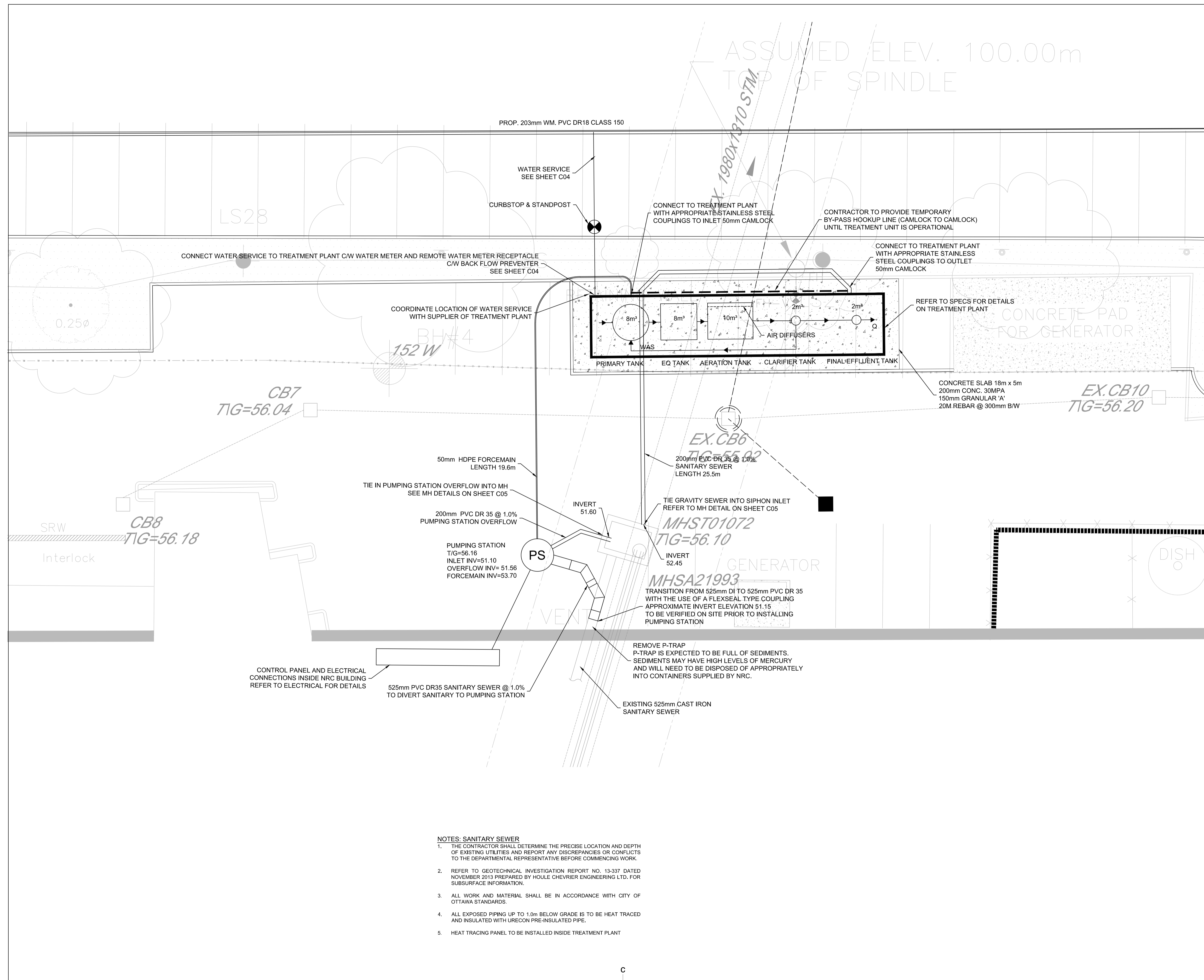
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drawn **JN** dessiné scale **1:500** échelle

checked **MT** vérifié sheet **C04 of/de C08** feuille

approved **RT** approuvé W.O.no. **A1006436-01** D.T.no.

dwg.no. **5226-C04** dessin no.



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  - ALL WORK AND MATERIAL SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STANDARDS.
  - ALL EXPOSED PIPING UP TO 1.0m BELOW GRADE IS TO BE HEAT TRACED AND INSULATED WITH URECON PRE-INSULATED PIPE.
  - HEAT TRACING PANEL TO BE INSTALLED INSIDE TREATMENT PLANT

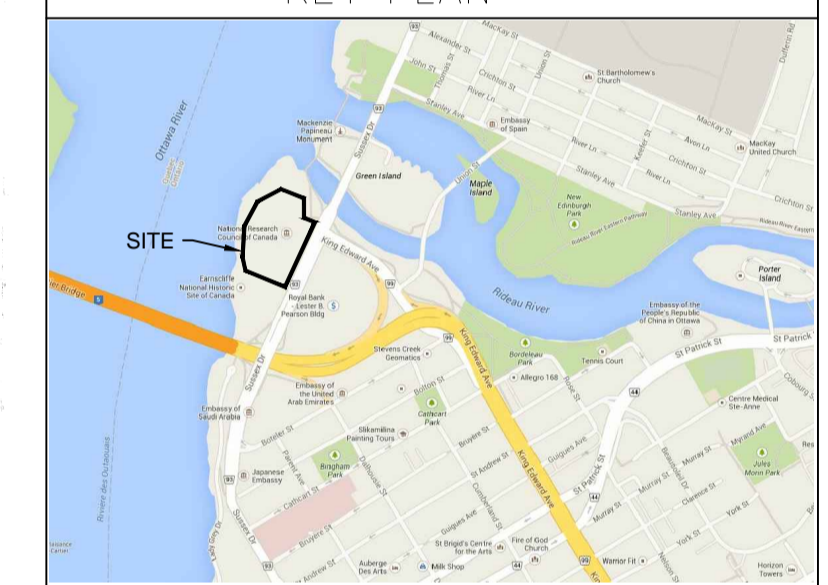


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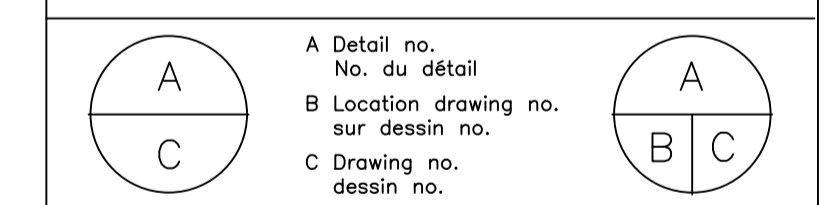
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**100 SUSSEX DRIVE**

drawing **SITE SERVICING: SANITARY SEWER DETAIL PLAN** dessin

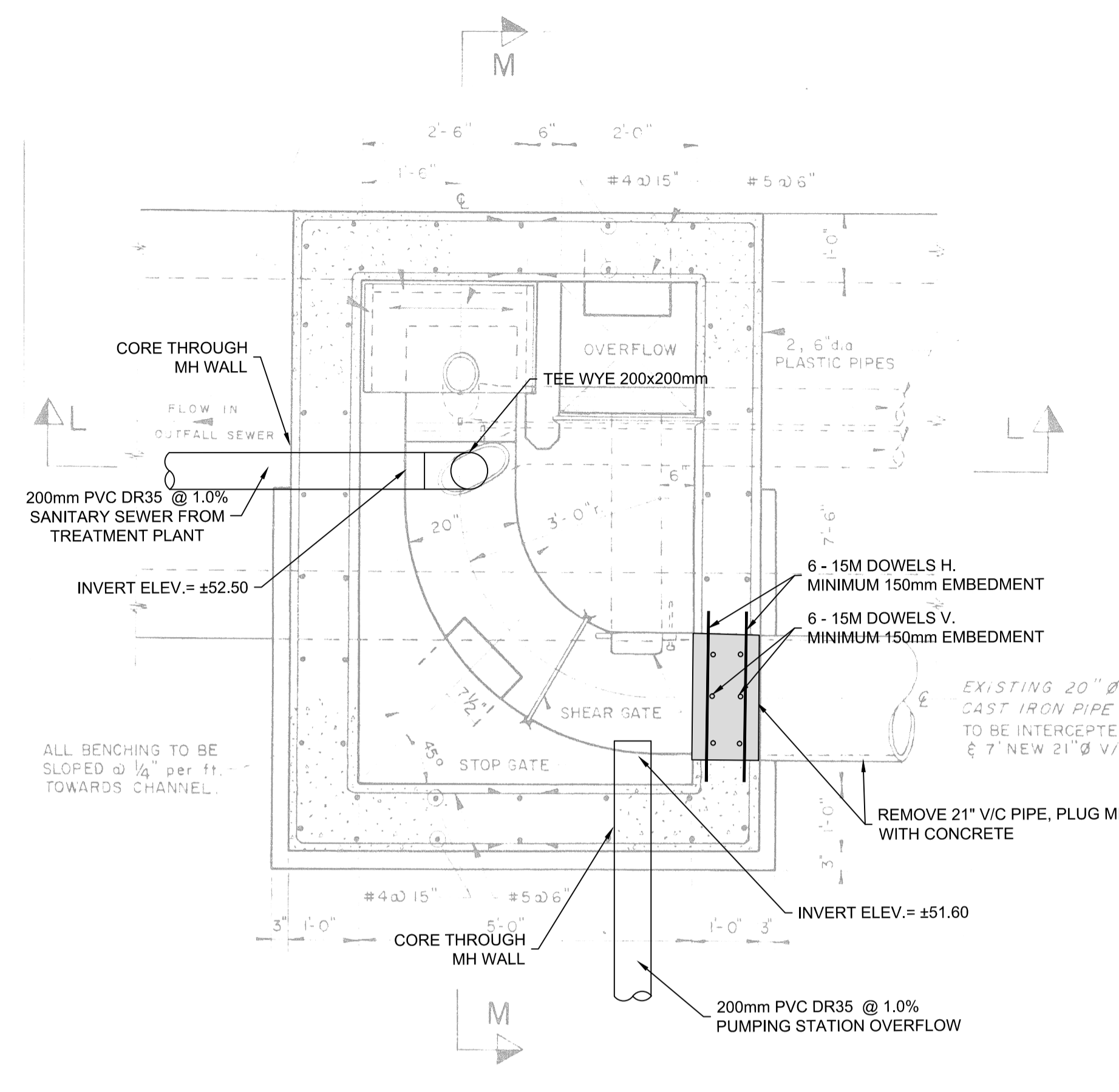
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drawn **JN** dessiné **NTS** scale **NTS** échelle

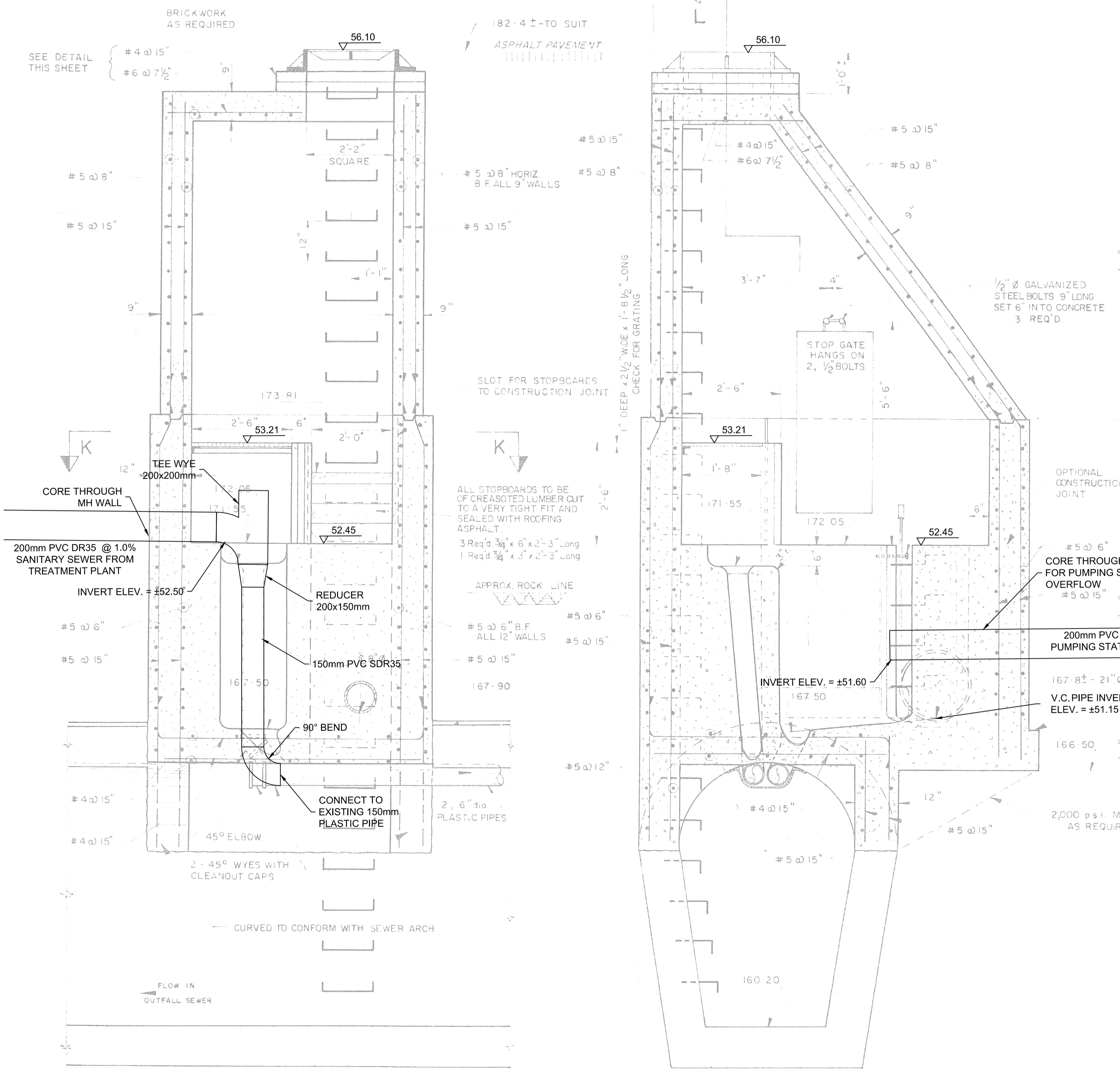
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approved **RT** approuvé **A1006436-01** W.O.no. D.T.no.

dwg.no. **5226-C05** dessin no.



SECTIONAL PLAN K-K



SECTIONAL ELEVATION L-L

SECTIONAL ELEVATION M-M

**MANHOLE N° 6 at N.R.C.**

C

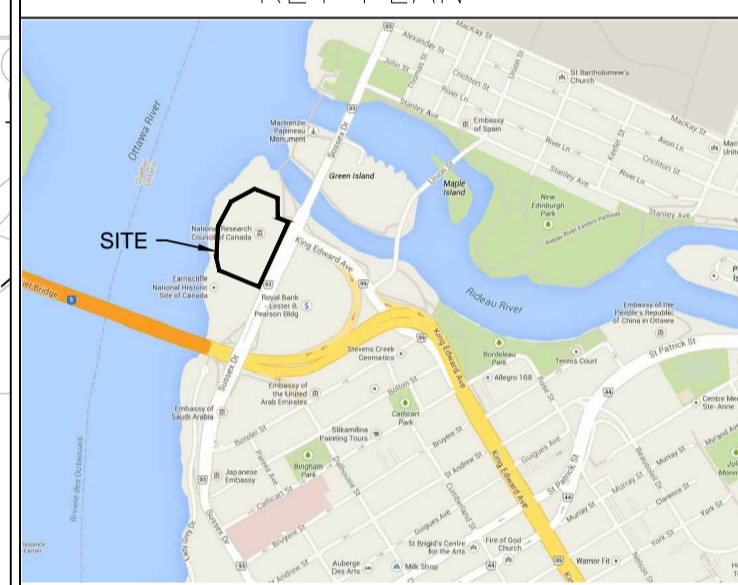


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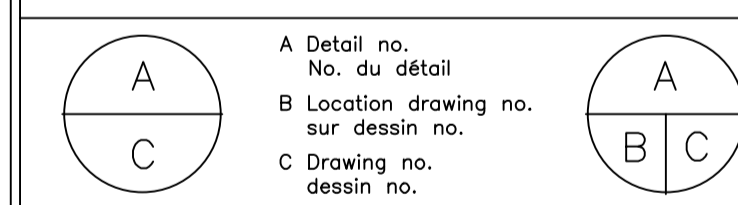
**KEY PLAN**



No.	Date	Revision	By:
2	04 07 2016	ISSUED FOR TENDER	MT
1	20 06 2016	ISSUED FOR 90% COMPLETION	MT

Date Printed DD MM YYYY Date imprimée

- Verify all dimensions and site conditions and be responsible for same
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project **100 SUSSEX DRIVE WATERMAIN REPLACEMENT AND PARKING LOT REHABILITATION** projet

drawing **GRADING PLAN** dessin

designed **MT / JN** conçu **JUNE 2016** date

drawn **JN** dessiné **1:500** scale **1:500** échelle

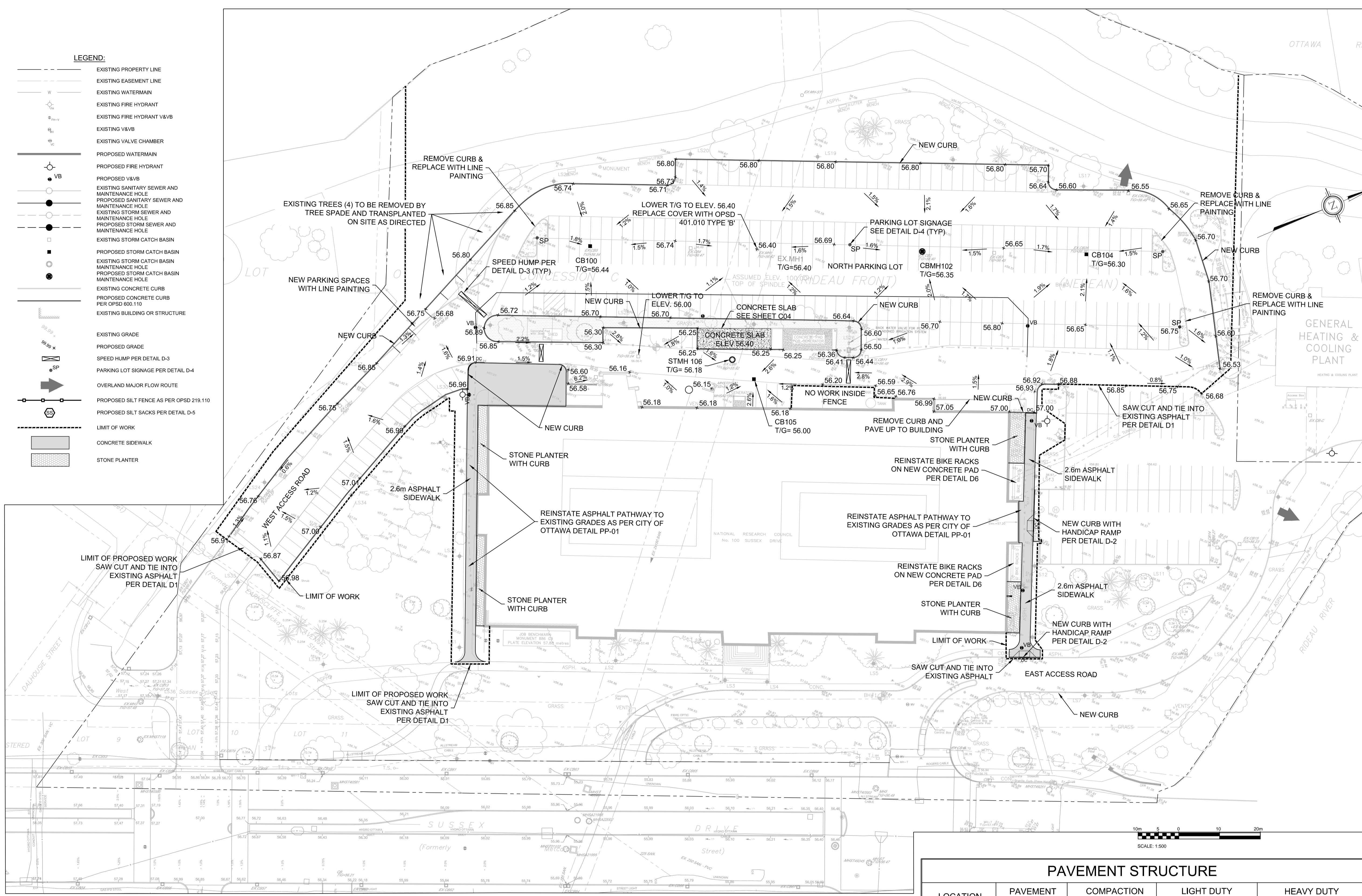
checked **MT** vérifié **C06 of/de C08** sheet / feuille

approved **RT** approuvé **A1006436-01** W.O.no. / D.T.no.

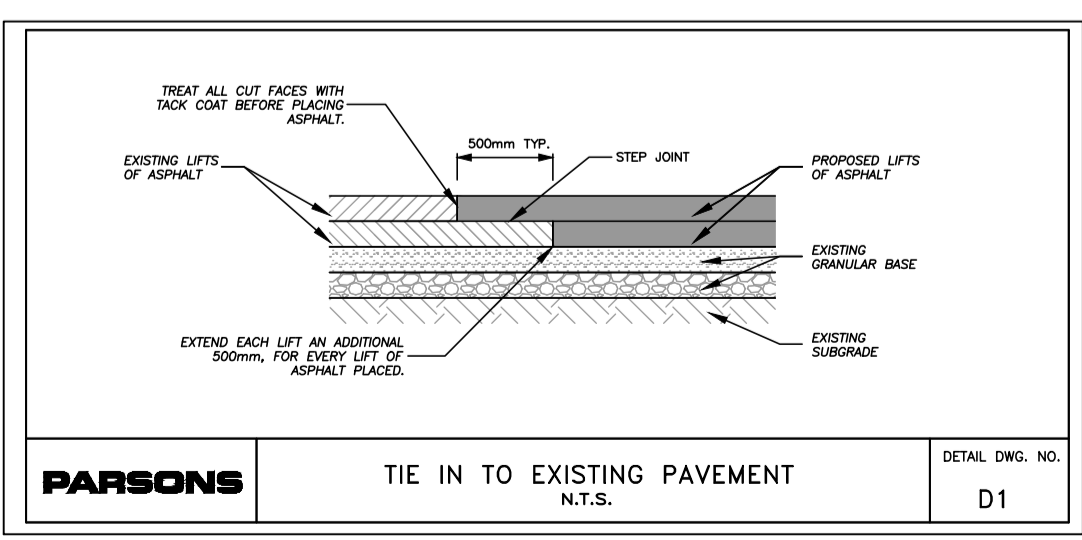
dwg.no. **5226-C06** dessin no.

**LEGEND:**

- EXISTING PROPERTY LINE
- EXISTING EASEMENT LINE
- EXISTING WATERMAIN
- EXISTING FIRE HYDRANT
- EXISTING FIRE HYDRANT V&VB
- EXISTING V&VB
- EXISTING VALVE CHAMBER
- PROPOSED WATERMAIN
- PROPOSED FIRE HYDRANT
- PROPOSED V&VB
- EXISTING SANITARY SEWER AND MAINTENANCE HOLE
- PROPOSED SANITARY SEWER AND MAINTENANCE HOLE
- EXISTING STORM SEWER AND MAINTENANCE HOLE
- PROPOSED STORM SEWER AND MAINTENANCE HOLE
- EXISTING STORM CATCH BASIN
- PROPOSED STORM CATCH BASIN
- EXISTING STORM CATCH BASIN MAINTENANCE HOLE
- PROPOSED STORM CATCH BASIN MAINTENANCE HOLE
- EXISTING CONCRETE CURB
- PROPOSED CONCRETE CURB PER OPSD 800.110
- EXISTING BUILDING OR STRUCTURE
- EXISTING GRADE
- PROPOSED GRADE
- SPEED HUMP PER DETAIL D-3
- PARKING LOT SIGNAGE PER DETAIL D-4
- OVERLAND MAJOR FLOW ROUTE
- PROPOSED SILT FENCE AS PER OPSD 219.110
- PROPOSED SILT SACKS PER DETAIL D-5
- LIMIT OF WORK
- CONCRETE SIDEWALK
- STONE PLANTER



- NOTES GRADING:**
- DUE TO THE COMPLEXITY AND NATURE OF THIS PLAN, ELEVATIONS OF THE TOP OF PROPOSED CONCRETE CURBS HAVE NOT BEEN ISOLATED AS "TOP OF CONC./CURB ELEVATION". A STANDARD CURB DEPTH OF 150mm SHOULD BE ADDED TO ALL AT GRADE ASPHALT ELEVATIONS.
  - LINE PAINTING SHALL BE COMPLETED TO MATCH THE EXISTING AND MEET CITY OF OTTAWA STANDARDS.
  - ALL DISTURBED AREAS TO BE REINSTATED TO MATCH EXISTING UNLESS OTHERWISE NOTED. REFER TO ELECTRICAL DRAWINGS FOR EXTENT OF SURFACE REINSTATEMENT DUE TO THE SITE LIGHTING WORK.



**PAVEMENT STRUCTURE**

LOCATION	PAVEMENT LAYER	COMPACTION REQUIREMENTS	LIGHT DUTY PAVEMENT	HEAVY DUTY PAVEMENT
SURFACE FINISH (ALL AREAS)	ASPHALTIC CONCRETE	TABLE 9 OF OPSS 310	50 mm SP 12.5 (PG58-34) TRAFFIC LEVEL B	N/A
NEW PARKING LOT AREAS	OPSS GRANULAR 'A'	98% SPMDD*	150 mm	N/A
	OPSS GRANULAR 'B' TYPE II	98% SPMDD*	300 mm	N/A
EXISTING PARKING LOT AREAS	FOR EXISTING PARKING LOT AREAS THE GRANULAR BASE IS TO REMAIN, THEREFORE THICKNESS WILL VARY THROUGHOUT THE SITE TO SUIT PROPOSED SURFACE ELEVATION. WHERE THE PROPOSED FINISHED GRADES ARE TO BE RAISED, USE EXCESS MATERIAL FROM PULVERIZED ASPHALT. THE EXCESS MATERIAL NEEDS TO BE APPROVED BY THE DEPARTMENTAL REPRESENTATIVE AND THE GEOTECHNICAL ENGINEER AS SUITABLE BASE MATERIAL PRIOR TO CONSTRUCTION.			





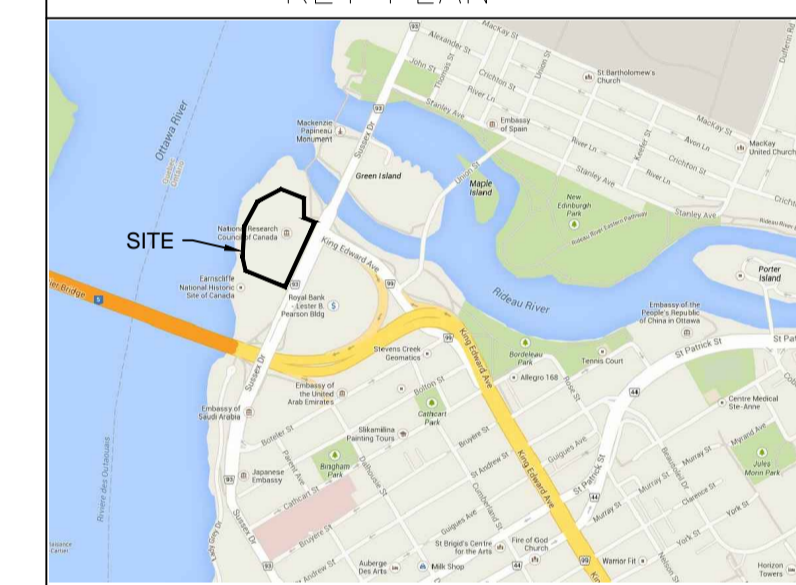
1223 Michael Street, Suite 100, Ottawa, Ontario, Canada K1J 7T2  
 Tel: (613) 738-4160 Fax: (613) 739-7105

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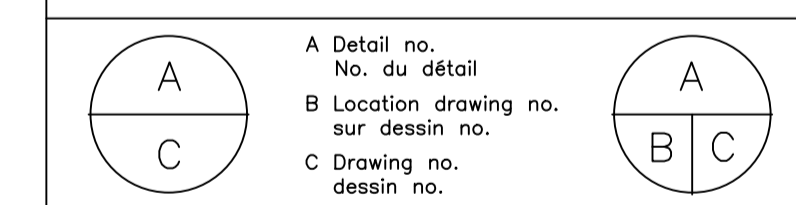
KEY PLAN



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Date Printed DD MM YYYY Date imprimée

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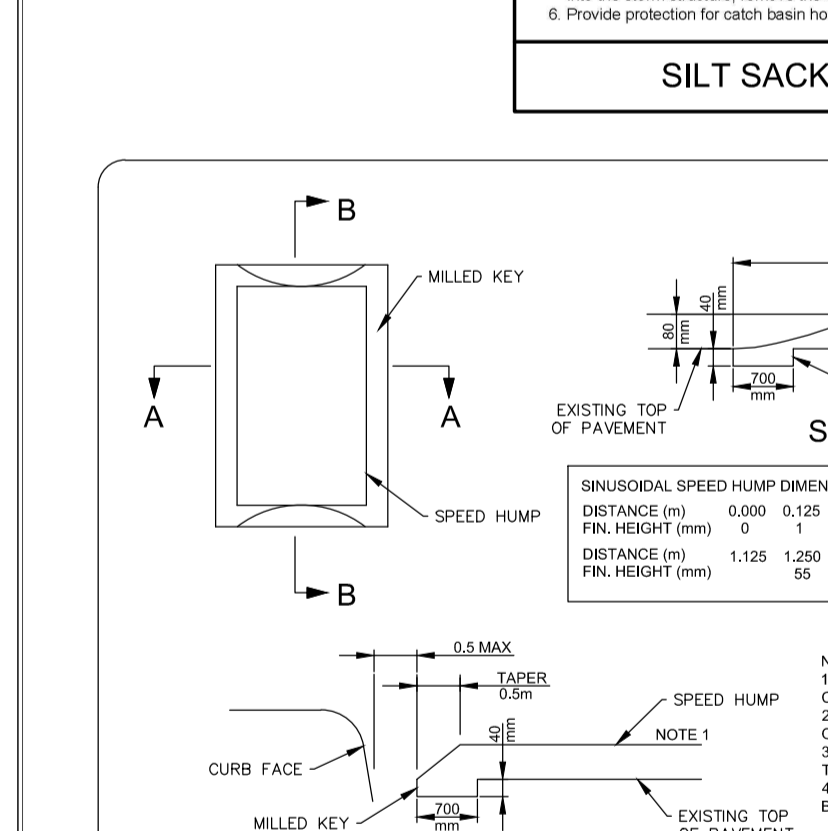
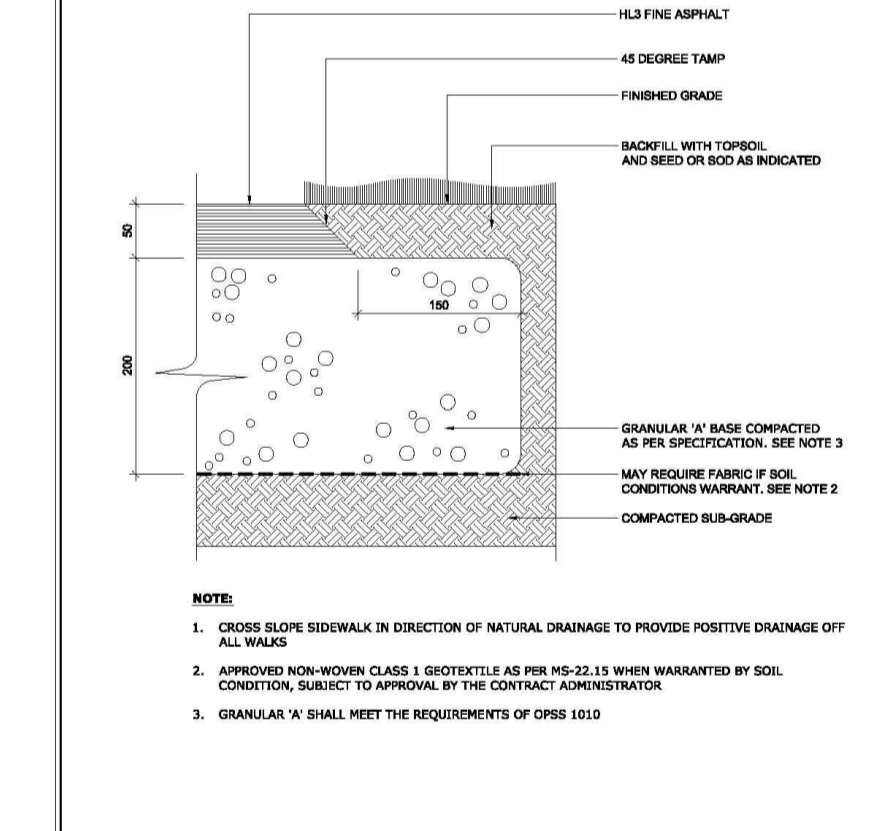
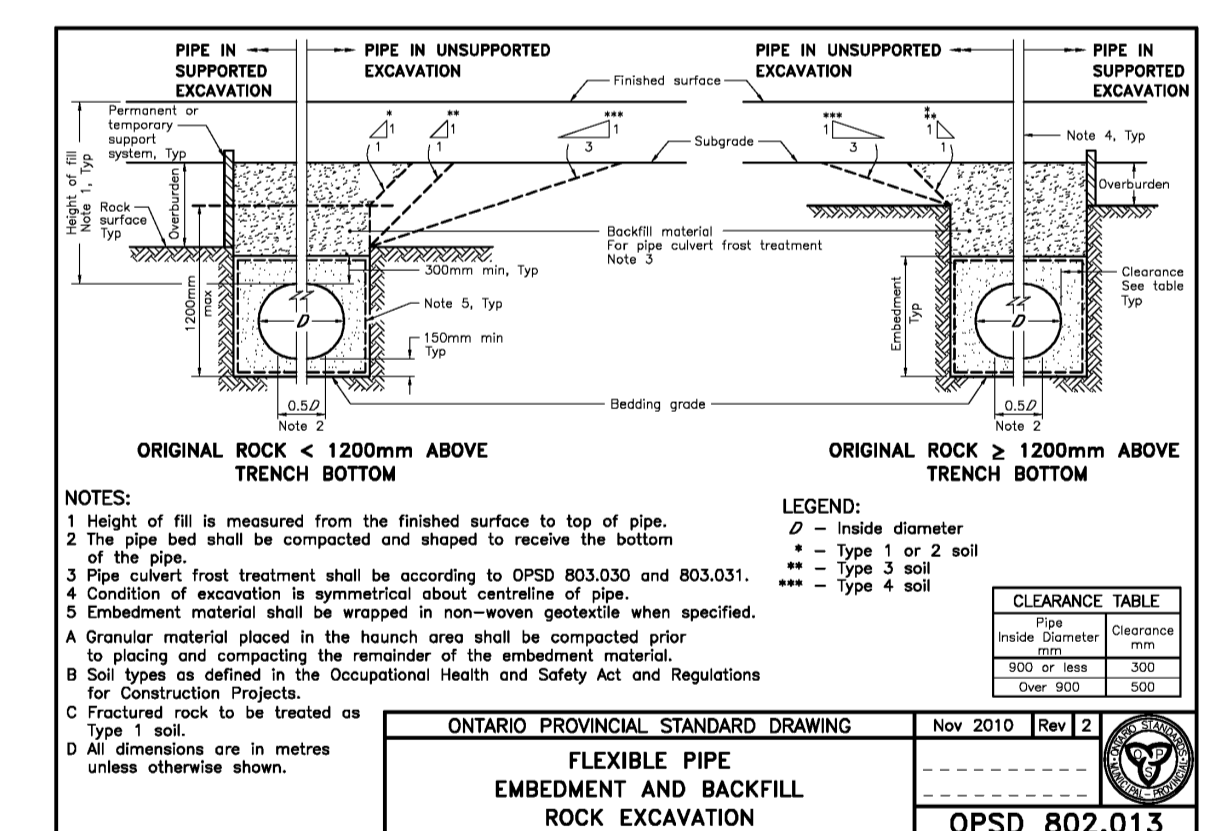
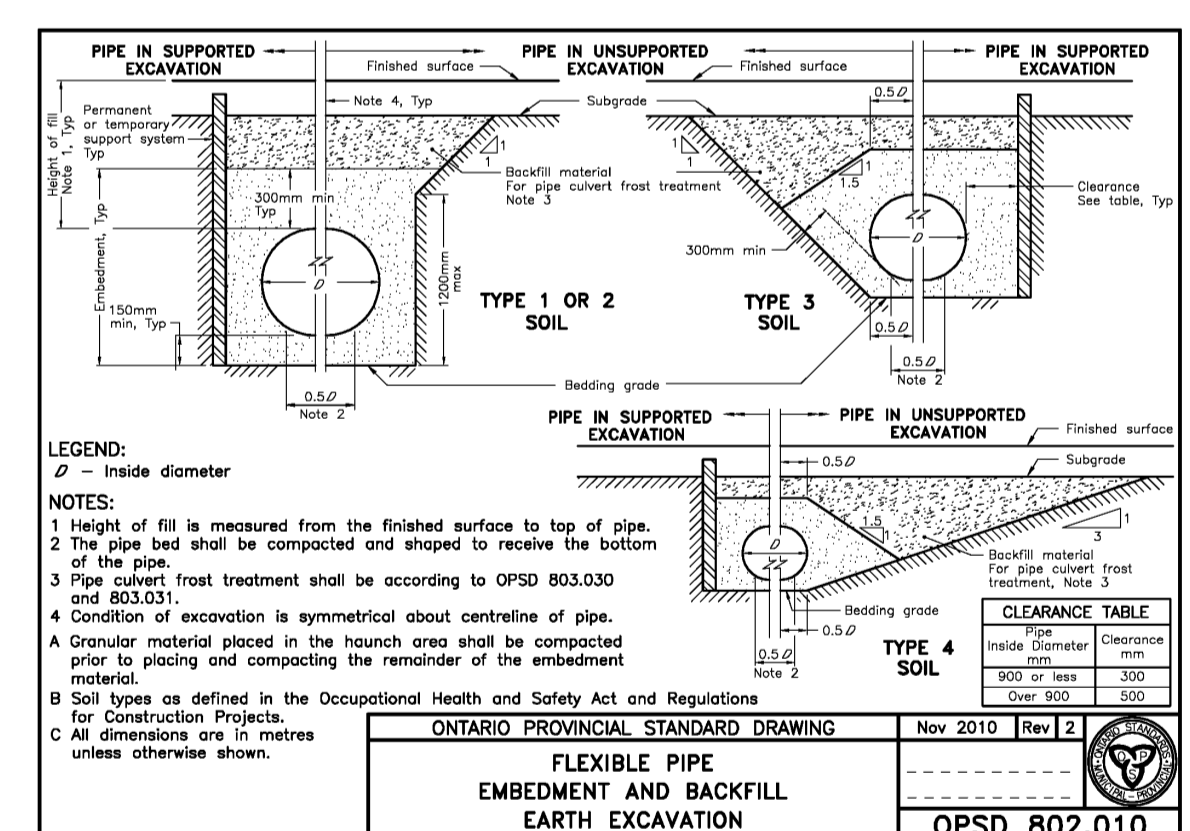
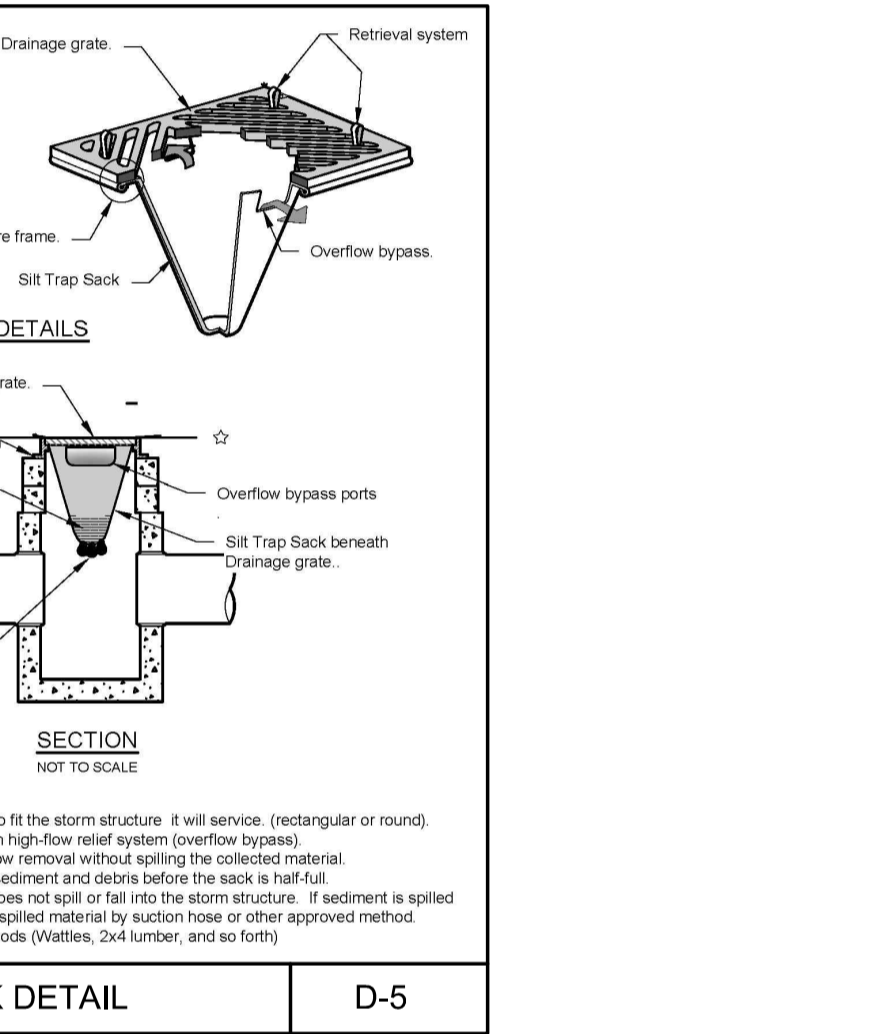
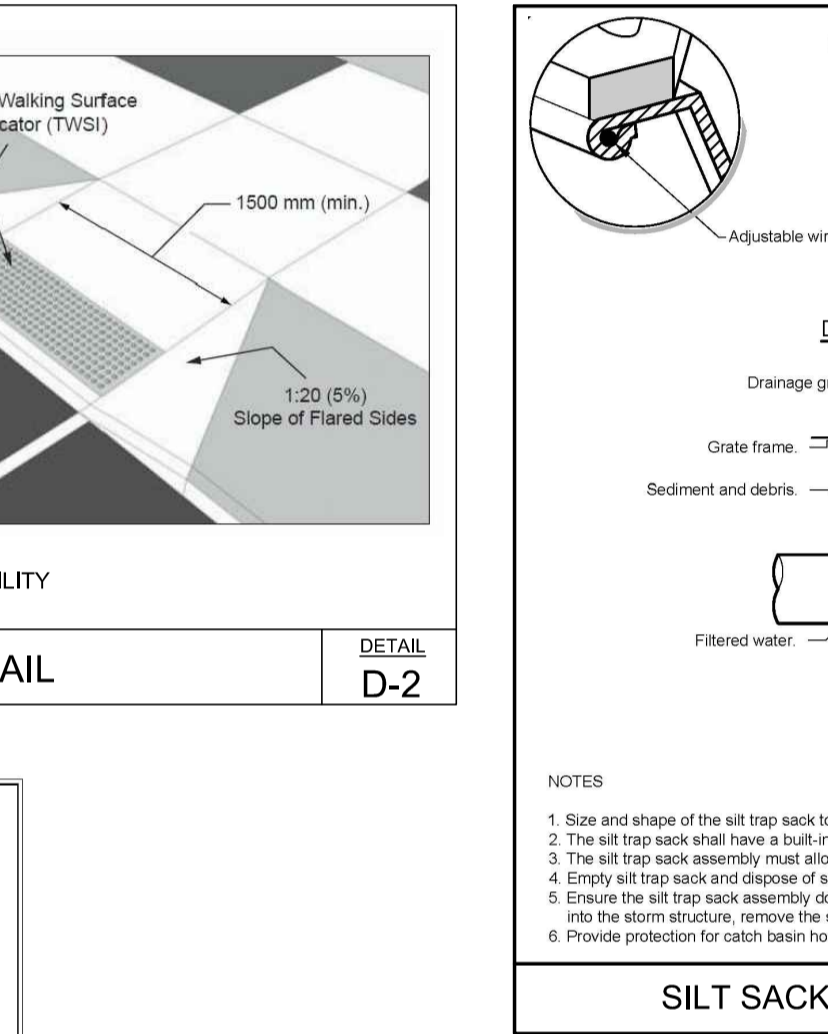
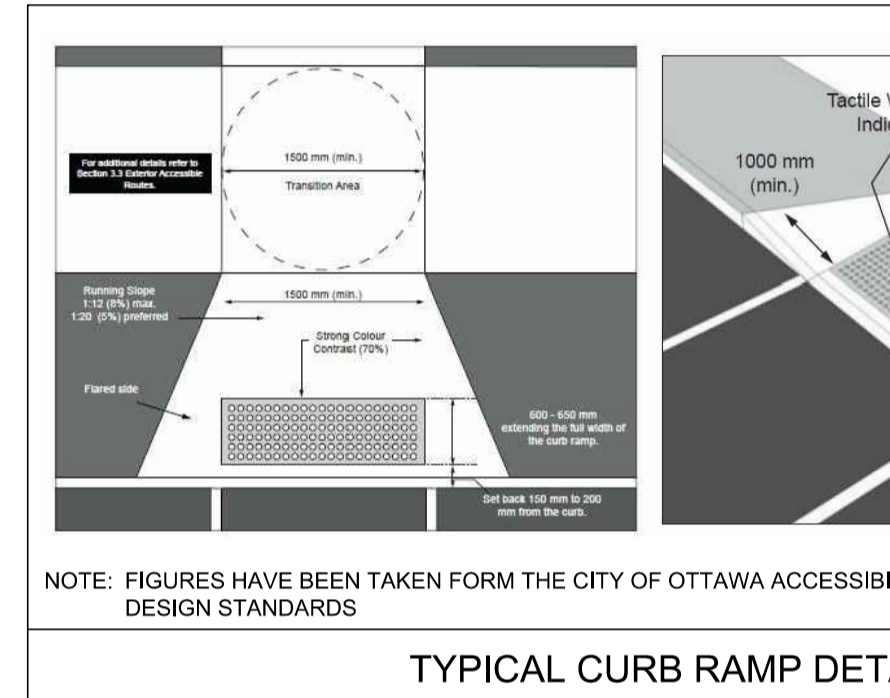
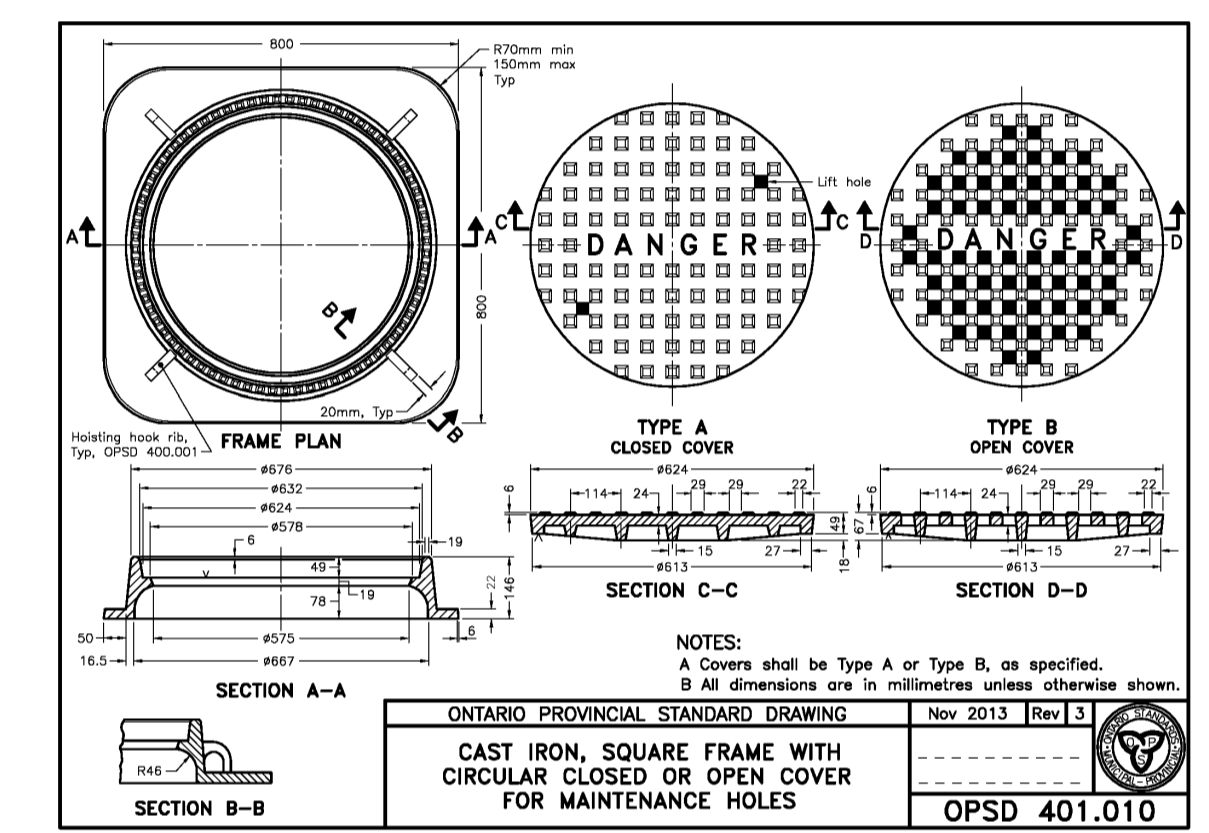
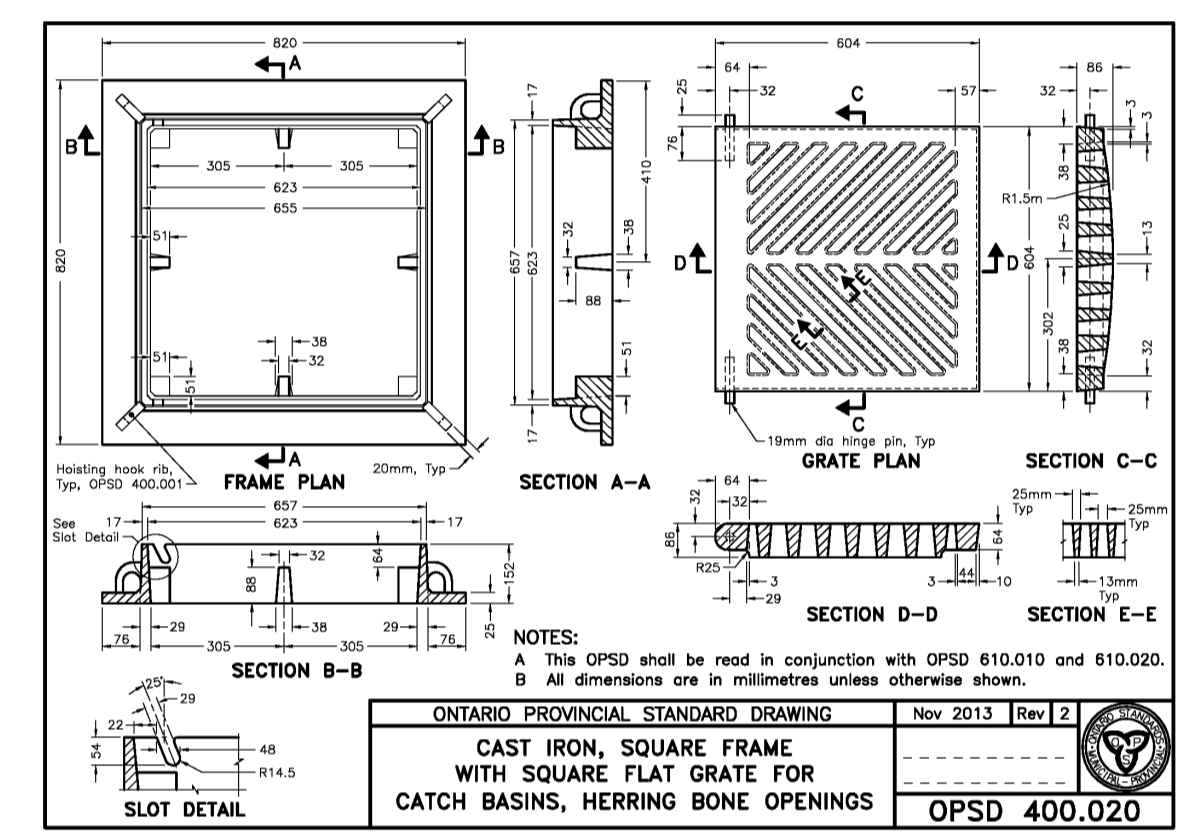
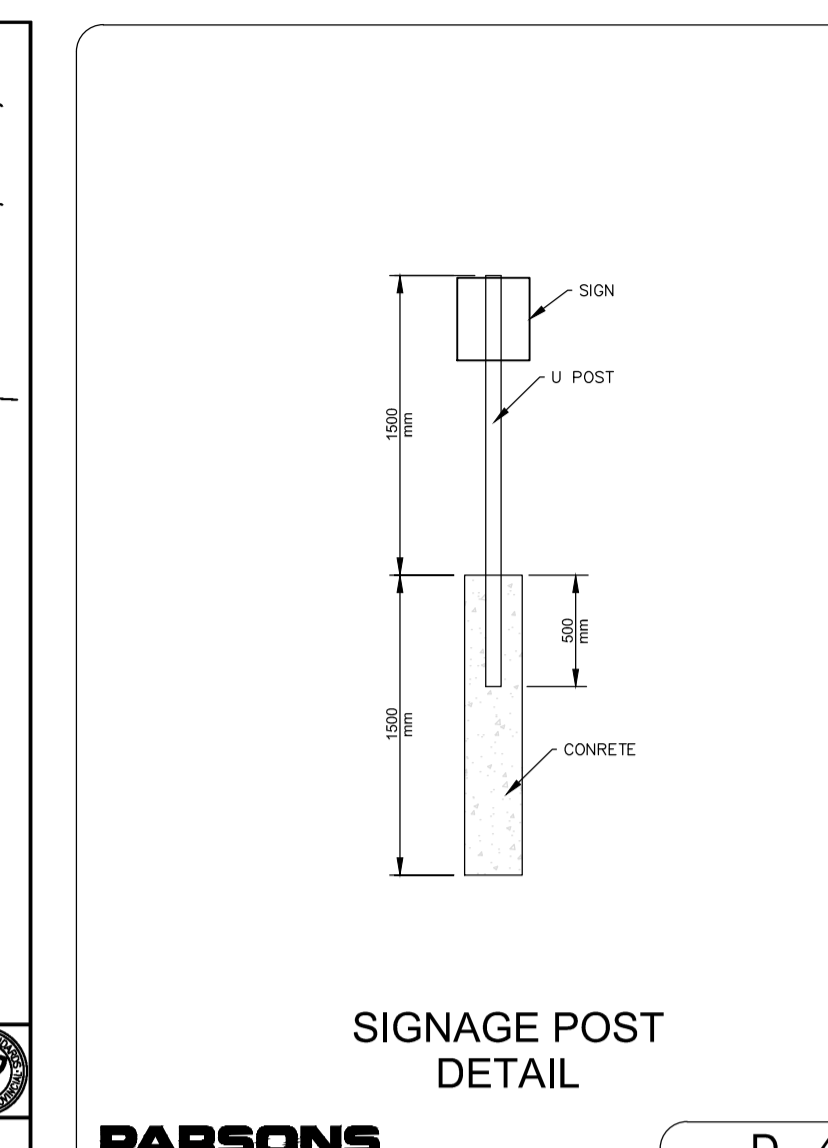
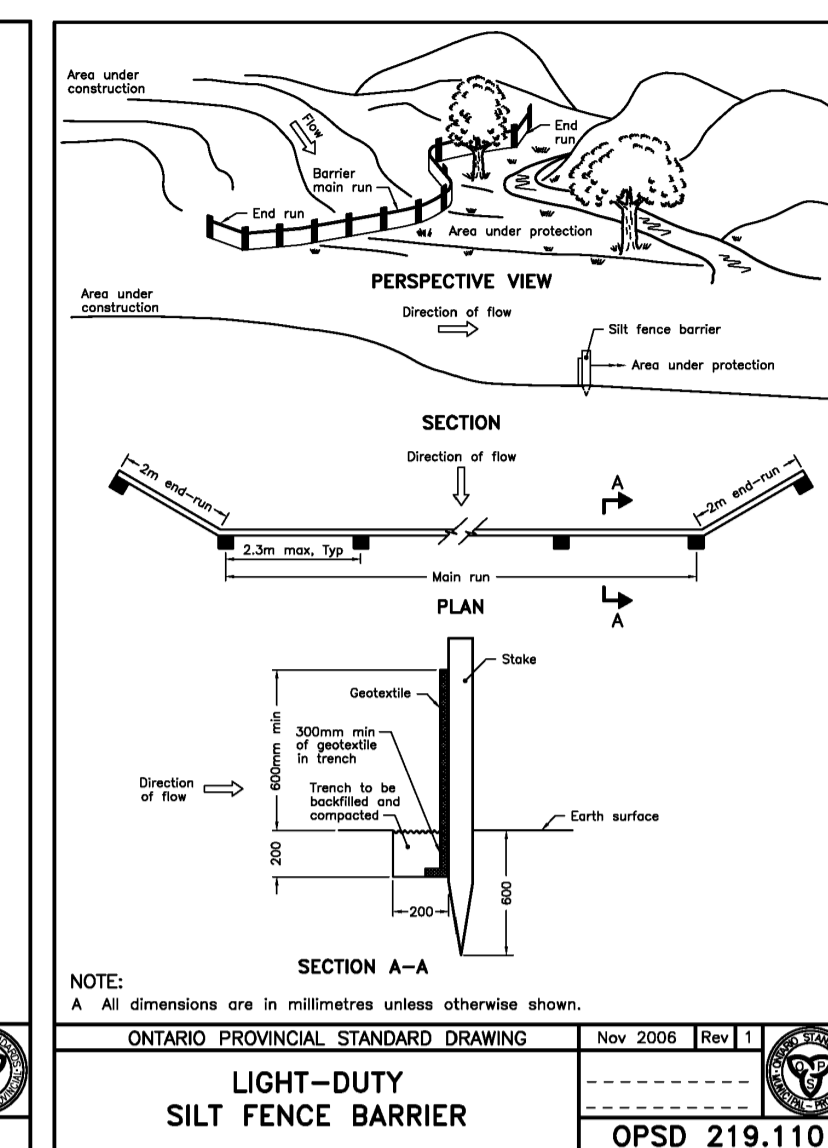
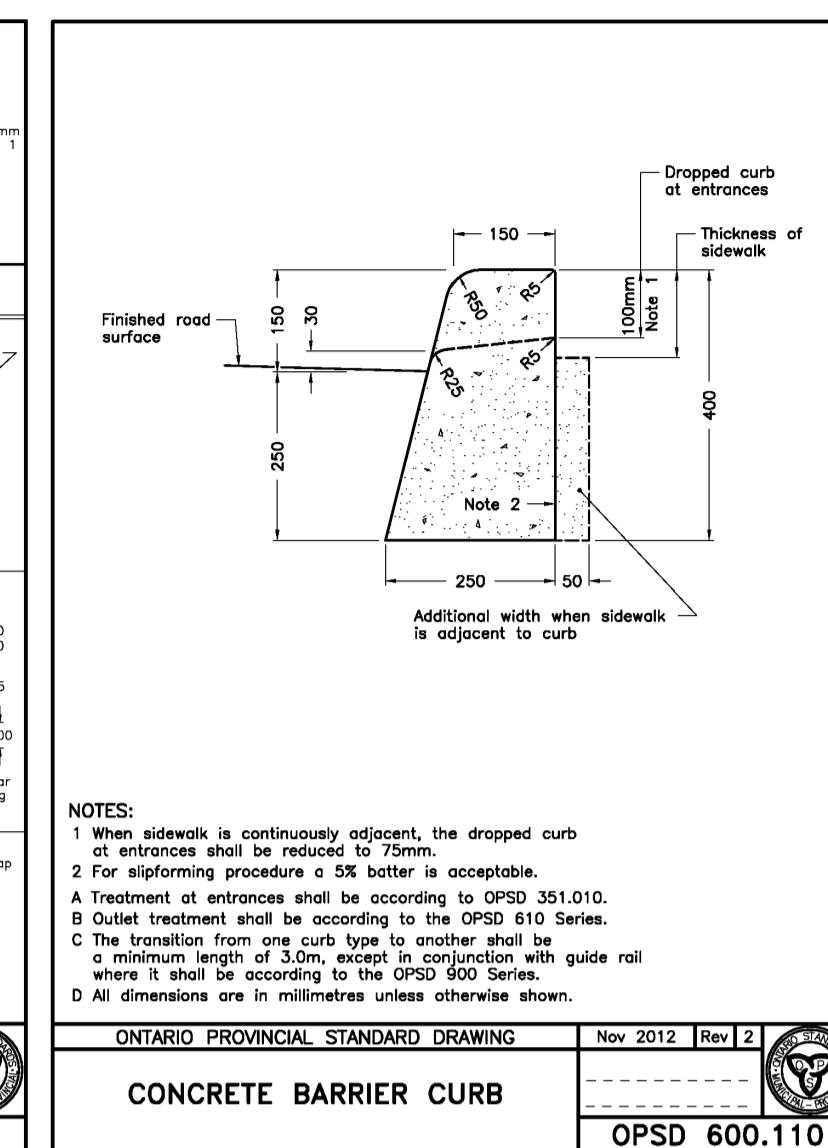
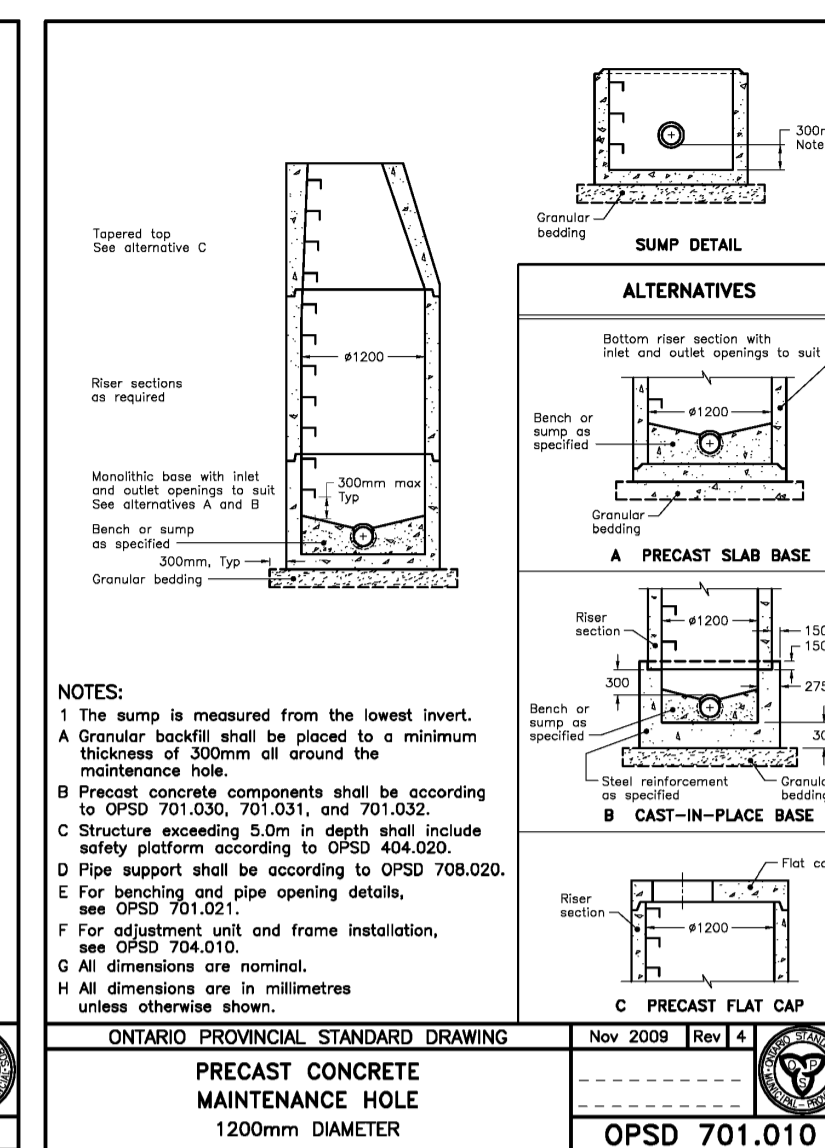
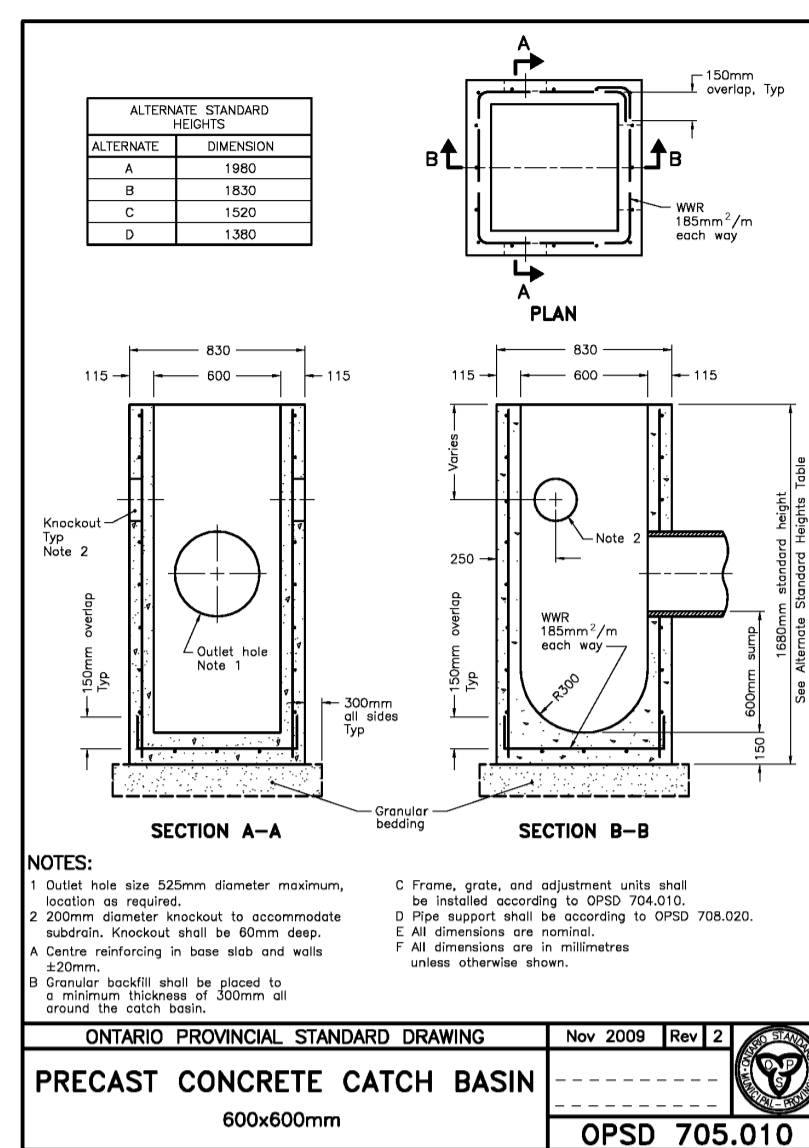


project 100 SUSSEX DRIVE WATERMAIN REPLACEMENT AND PARKING LOT REHABILITATION

100 SUSSEX DRIVE

GENERAL DETAILS AND NOTES

designed	conçu	date	date
MT / JN		JUNE 2016	
drawn	dessiné	scale	échelle
JN		1:500	
checked	vérifié	sheet	feuille
MT		C07 of/de	C08
approved	approuvé	W.O.No.	D.T.No.
RT		A1006436-01	
dwg.no.			dessin no.
5226-C07			



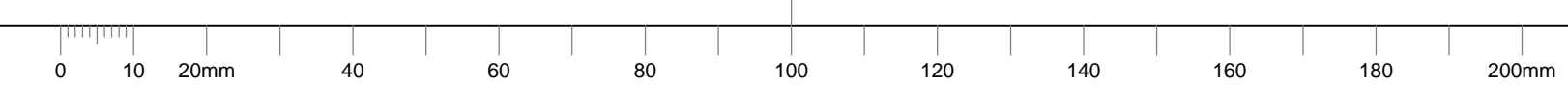
NOTES: GENERAL

- CONTRACTOR IS RESPONSIBLE FOR ALL LAYOUT FOR CONSTRUCTION PURPOSES.
- ALL ELEVATIONS ARE GEODETIC AND UTILIZE METRIC UNITS.
- JOB BENCH MARK - CONFIRM WITH PARSONS PRIOR TO UTILIZATION.
- ALL GROUND SURFACES SHALL BE EVENLY GRADED WITHOUT PONDING AREAS AND WITHOUT LOW POINTS EXCEPT WHERE APPROVED SWALE OR CATCH BASIN OUTLETS ARE PROVIDED.
- STRIP AND REMOVE ALL TOPSOIL FROM IMPROVED AREAS.
- COORDINATE AND SCHEDULE ALL WORK WITH OTHER TRADES AND CONTRACTORS.
- ALL EDGES OF DISTURBED PAVEMENT SHALL BE SAW CUT TO FORM A NEAT AND STRAIGHT LINE PRIOR TO PLACING NEW PAVEMENT. PAVEMENT REINSTATEMENT SHALL BE WITH STEP JOINTS OF 500mm WIDTH MINIMUM, REFER TO DETAIL D1 ON SHEET C06.
- CURBS TO BE BARRIER, CONSTRUCTED AS PER OPSD DETAIL 600.110.

- ALL MATERIAL SUPPLIED AND PLACED FOR PARKING LOT AND ACCESS ROAD CONSTRUCTION SHALL BE TO OPSS STANDARDS AND SPECIFICATIONS UNLESS OTHERWISE NOTED. CONSTRUCTION TO OPSS 206, 310 & 314, MATERIALS TO OPSS 1001, 1003 & 1010.
- ABUTTING PROPERTY GRADE TO BE MATCHED.
- OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND APPROVALS FROM THE MUNICIPAL AUTHORITIES PRIOR TO COMMENCING CONSTRUCTION.
- MINIMIZE DISTURBANCE TO EXISTING VEGETATION DURING THE EXECUTION OF ALL WORKS.
- FILTER FABRIC TO BE INSTALLED AND MAINTAINED BETWEEN THE FRAME AND COVER OF ALL CATCHBASINS AND CATCHBASIN MANHOLES DURING THE CONSTRUCTION PERIOD TO MINIMIZE SEDIMENTS ENTERING THE STORM SEWER SYSTEM. ALL GRASSED AREAS MUST BE COMPLETED PRIOR TO THE REMOVAL OF THE FILTER FABRIC IN THE CATCH BASINS.
- REMOVE FROM SITE ALL EXCESS EXCAVATED MATERIAL UNLESS OTHERWISE DIRECTED FROM THE DEPARTMENTAL REPRESENTATIVE. EXCAVATE AND REMOVE ALL ORGANIC MATERIAL AND DEBRIS LOCATED WITHIN THE PROPOSED BUILDING, PARKING AND ROADWAY LOCATIONS.
- THE APPROVAL OF THIS PLAN DOES NOT EXEMPT THE CONTRACTOR FROM THE

NOTES: SEWER

- SEWER BEDDING AS PER PIPE TRENCH DETAIL WITH GRANULAR 'A' BEDDING COMPACTED TO 95% OF ITS SPDM.
- ALL WORK SHALL BE PERFORMED, AS APPLICABLE IN ACCORDANCE WITH OPSS 407, AND 410.
- CONTRACTOR TO CONFIRM ELEVATION OF EXISTING STORM AND SANITARY SEWERS AT PROPOSED CONNECTION POINTS AND REPORT ANY DISCREPANCIES TO THE DEPARTMENTAL REPRESENTATIVE BEFORE COMMENCING ANY WORK.
- ALL SEWERS WITH LESS THAN 1.5M OF COVER ARE SUBJECT TO INSULATION DETAIL.



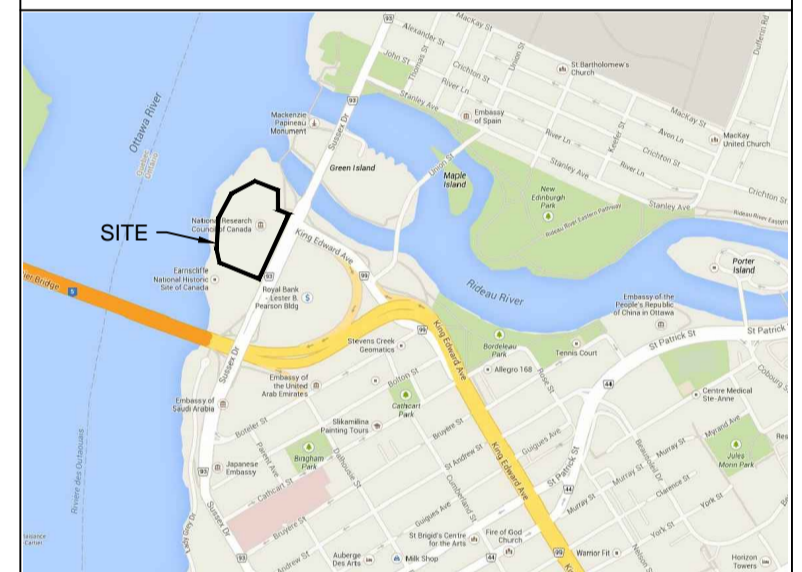


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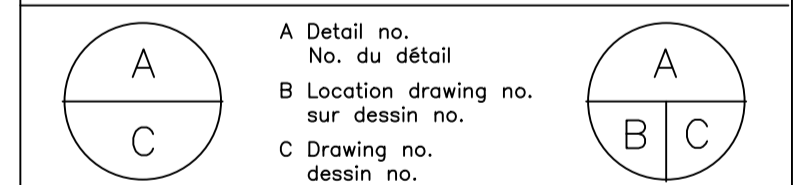
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1	20 06 2016	ISSUED FOR 90% COMPLETION	MT

Date Printed: 00 MM YYYY Date imprimée: \_\_\_\_\_

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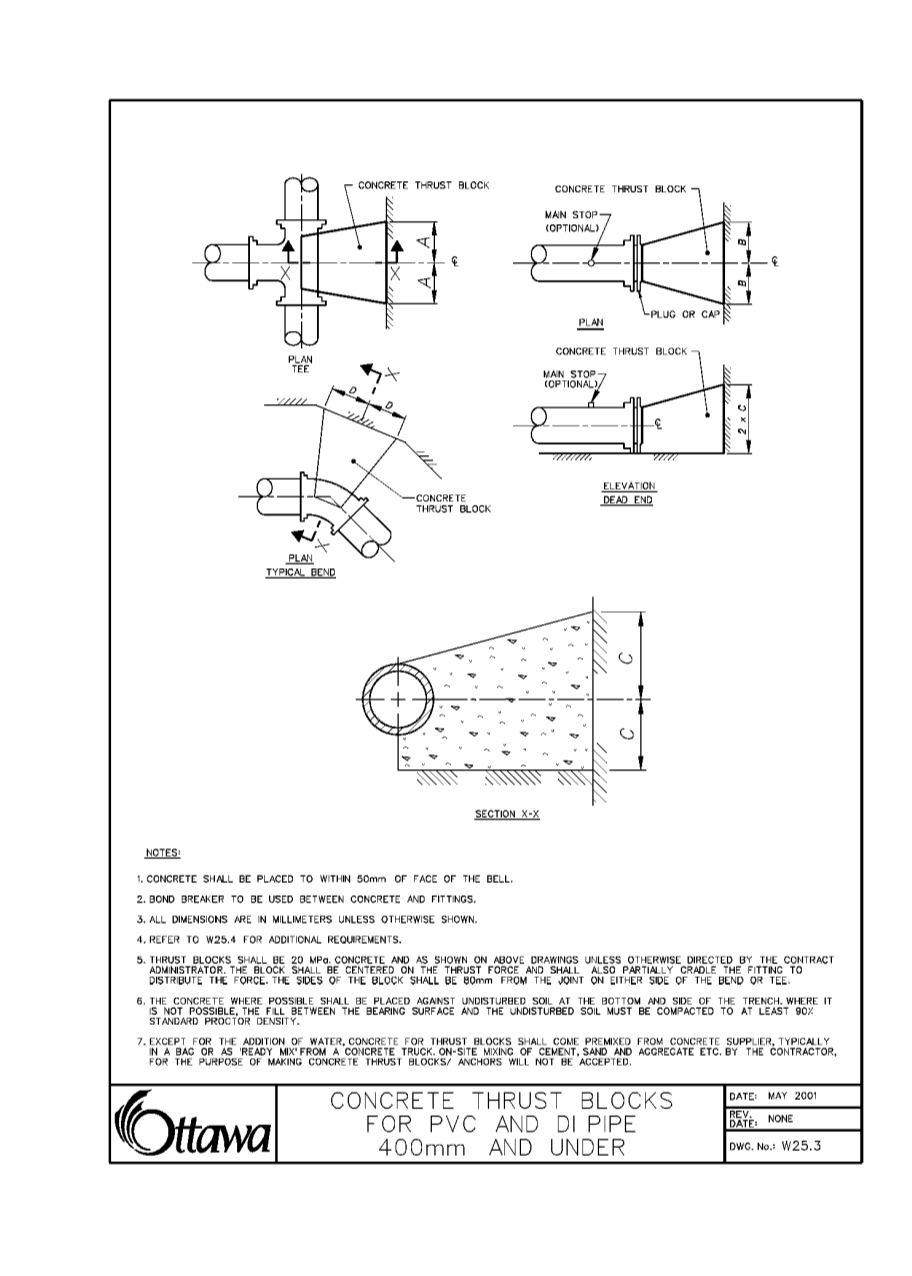
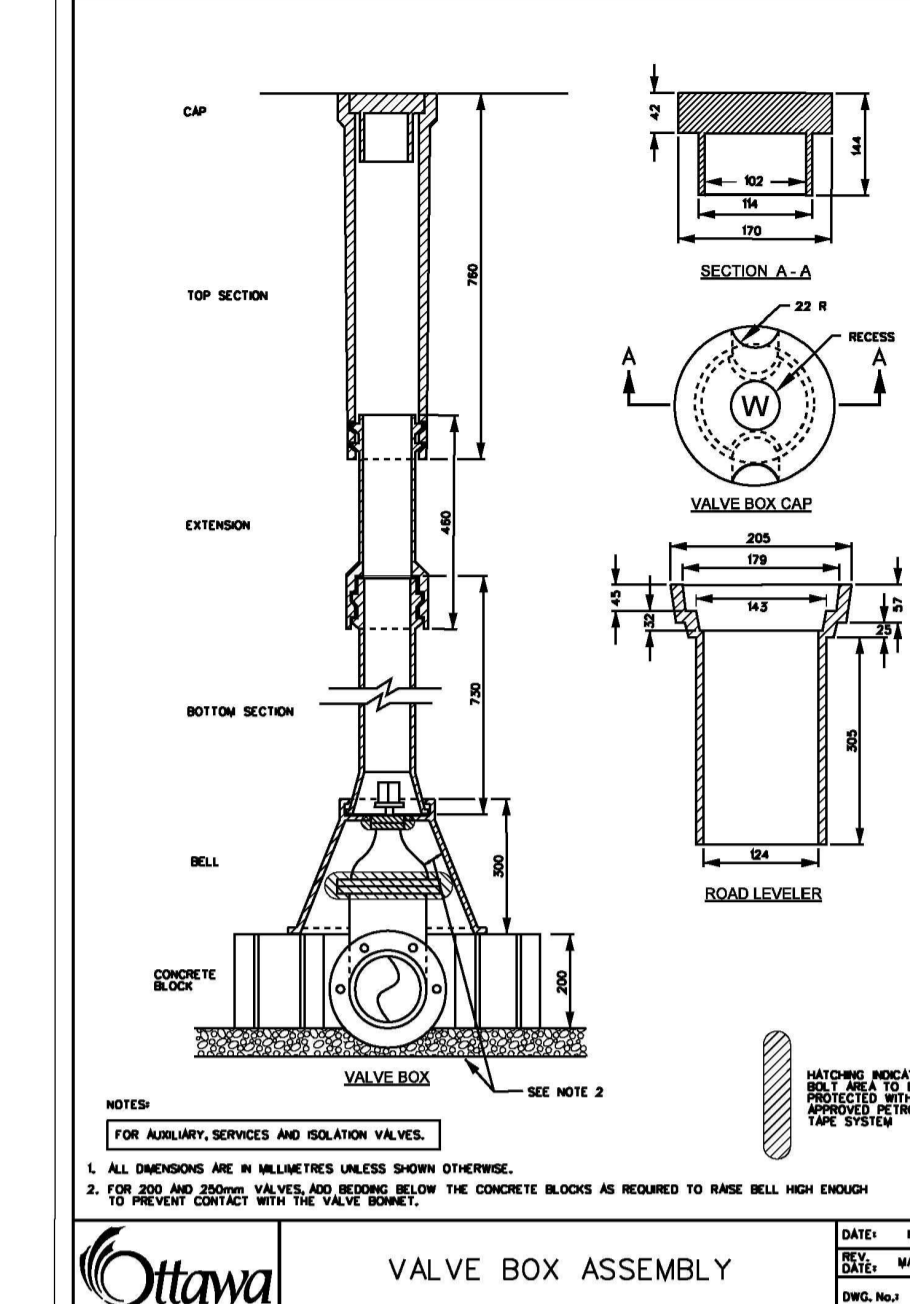
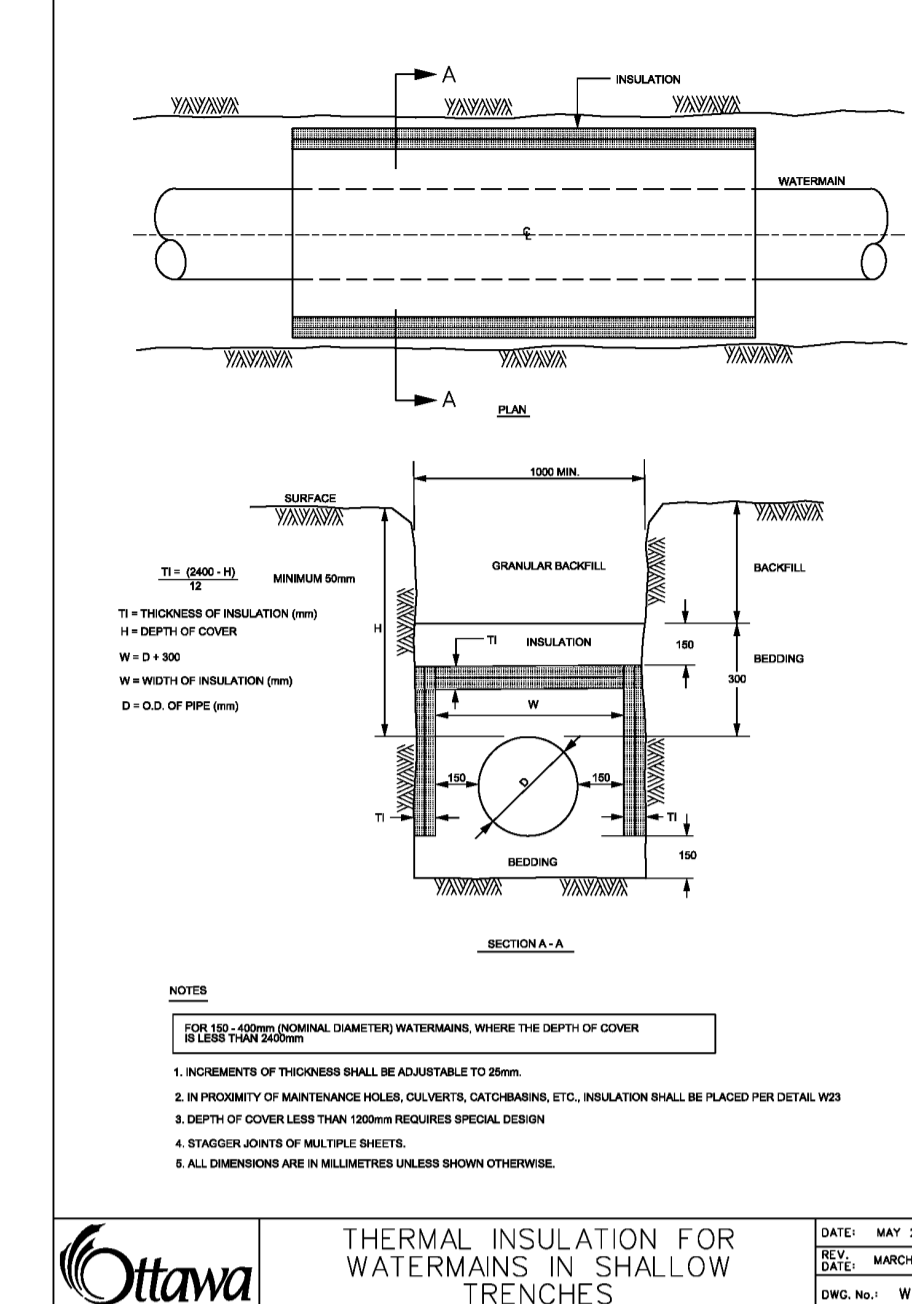
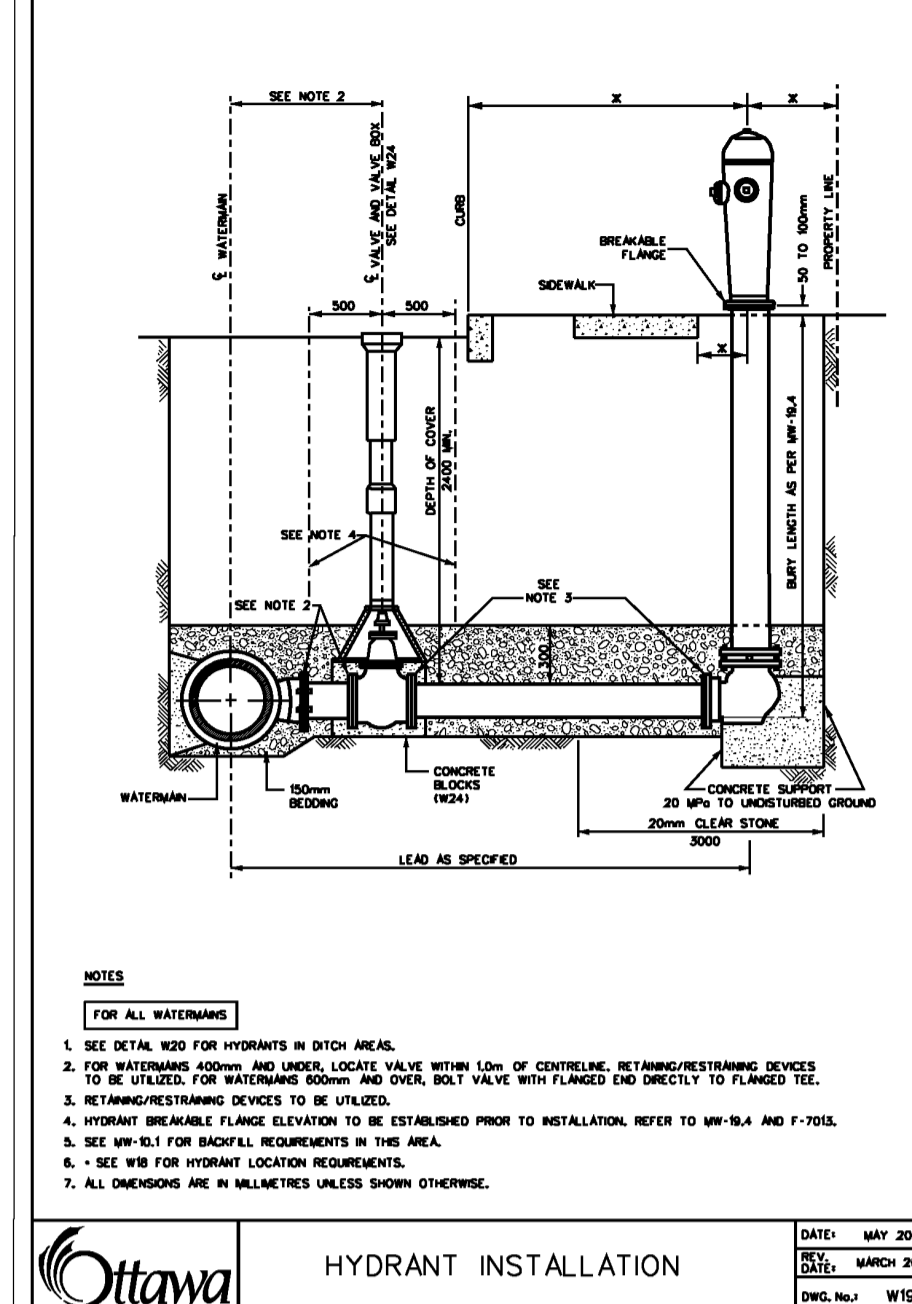
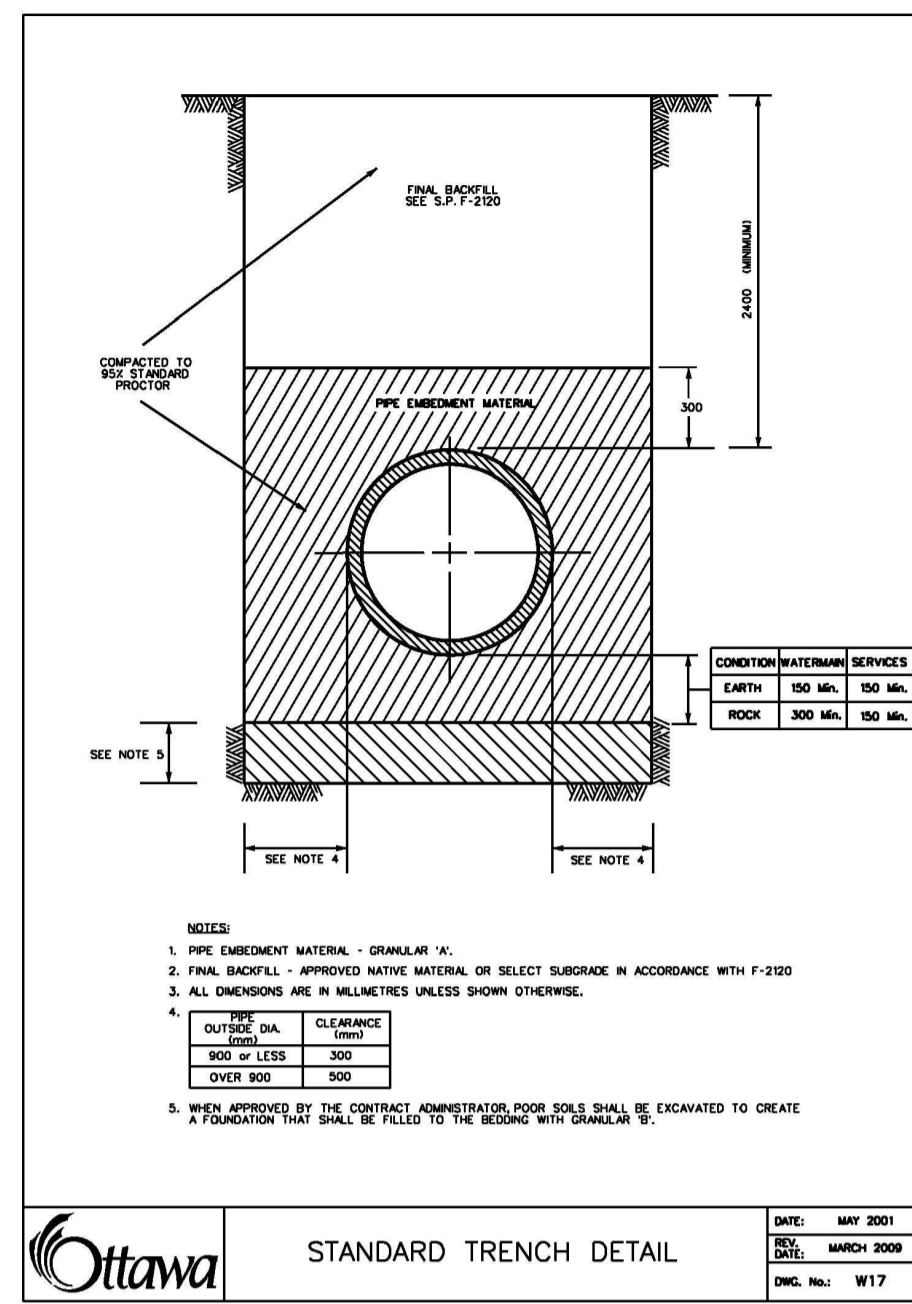


project: **100 SUSSEX DRIVE WATERMAIN REPLACEMENT AND PARKING LOT REHABILITATION**

100 SUSSEX DRIVE

drawing: **WATERMAIN DETAILS**

designed	conçu	date	date
MT / JN		JUNE 2016	
drawn	dessiné	scale	échelle
JN		1:500	
checked	vérifié	sheet	feuille
MT		C08 of/de C08	
approved	approuvé	W.O.no.	D.T.no.
RT		A1006436-01	
dwg.no.			dessin no.
<b>5226-C08</b>			



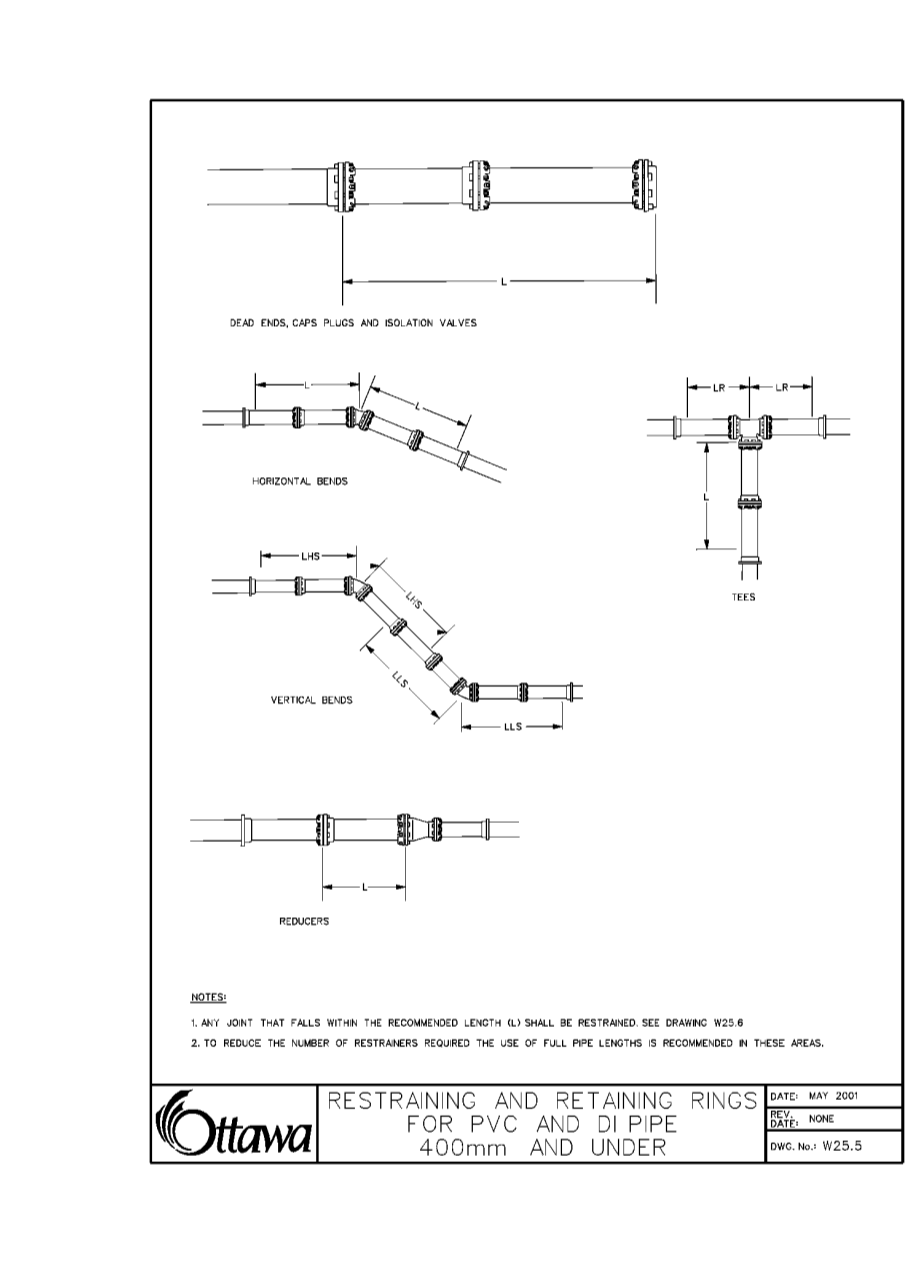
**THRUST BLOCK DIMENSION TABLES FOR PVC AND DI PIPE 400mm AND UNDER**

DATE: MAY 2001  
 DESIGNED: MARCH 2001  
 DWG. NO.: W23.4

PIPE DIAMETER	DIMENSION NOTED ON W23.3			
	A	B	C	D
102	250	250	200	200
152	400	400	250	300
203	550	550	300	400
254	600	600	400	500
305	800	800	450	650
406	1050	1050	600	850

PIPE DIAMETER	DIMENSION NOTED ON W23.3			
	A	B	C	D
102	250	250	150	150
152	250	250	200	200
203	350	350	250	270
254	450	450	300	300
305	600	600	300	400
406	750	750	400	600

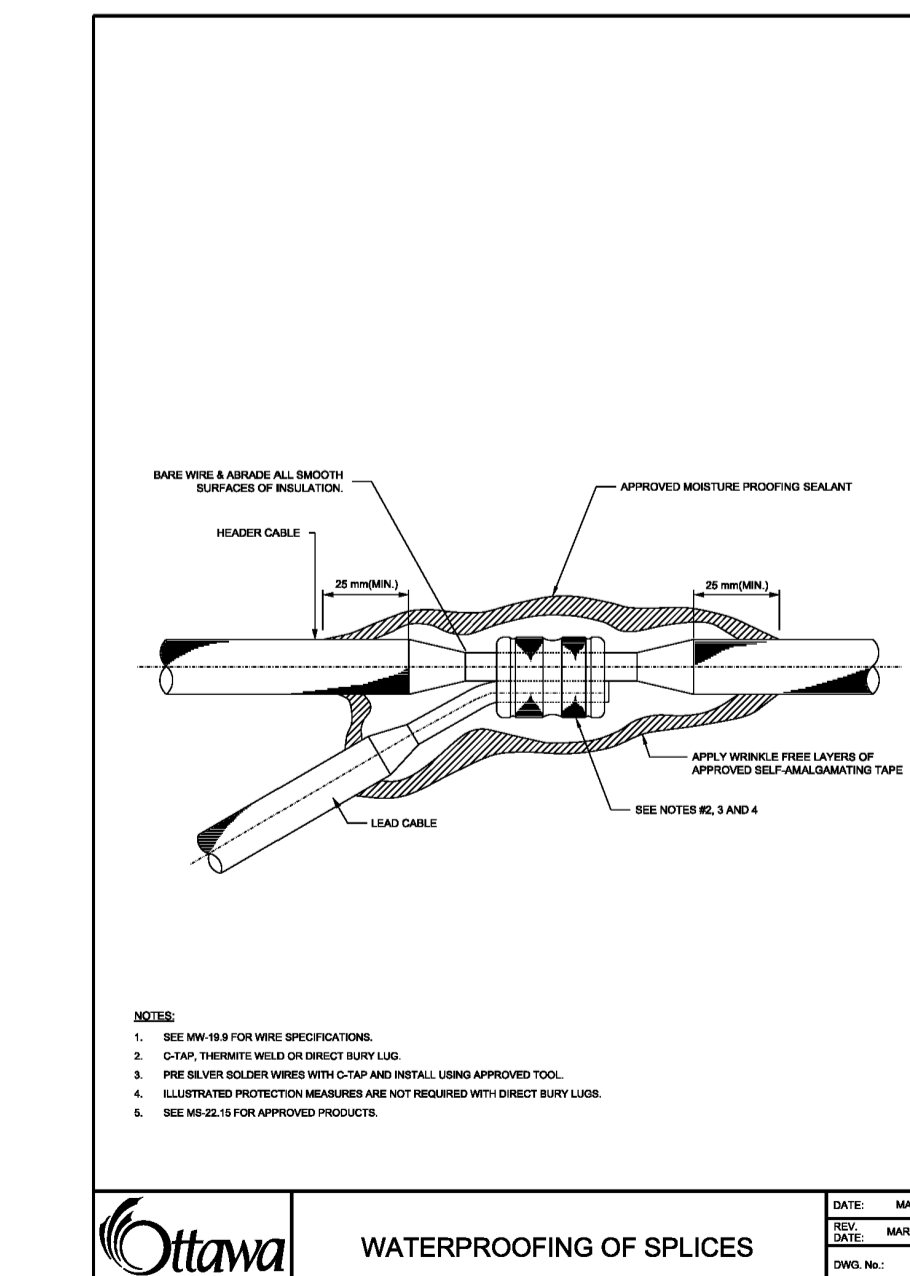
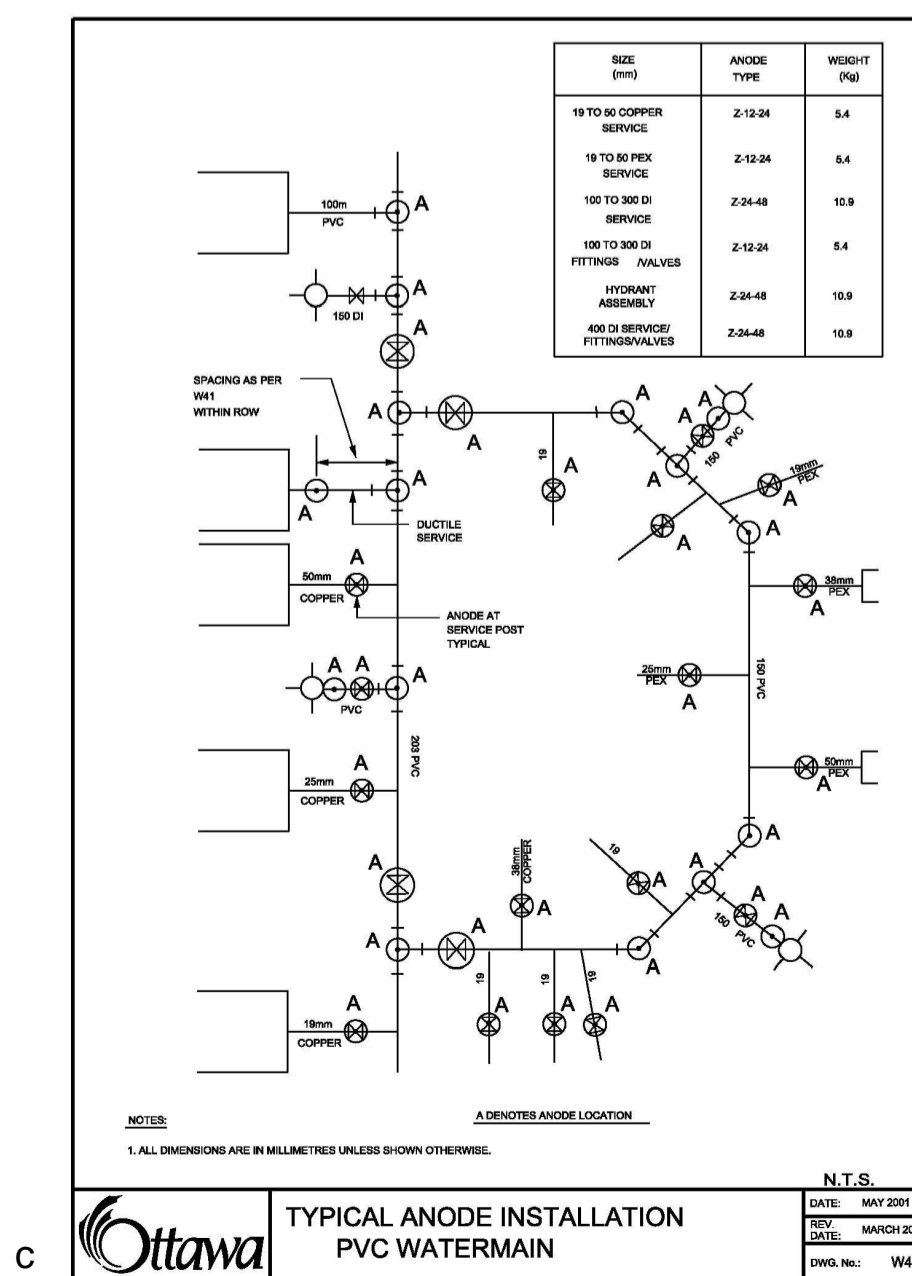
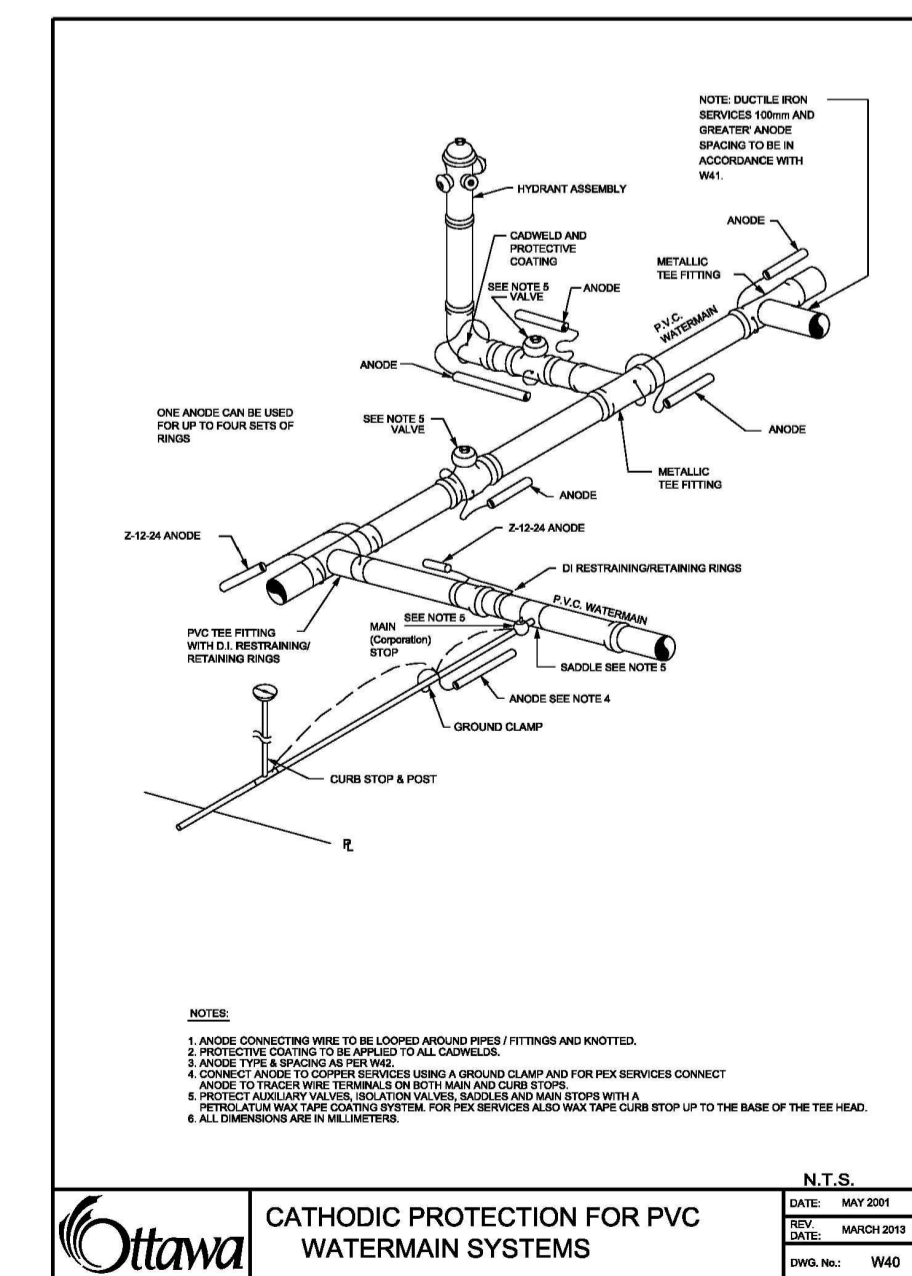
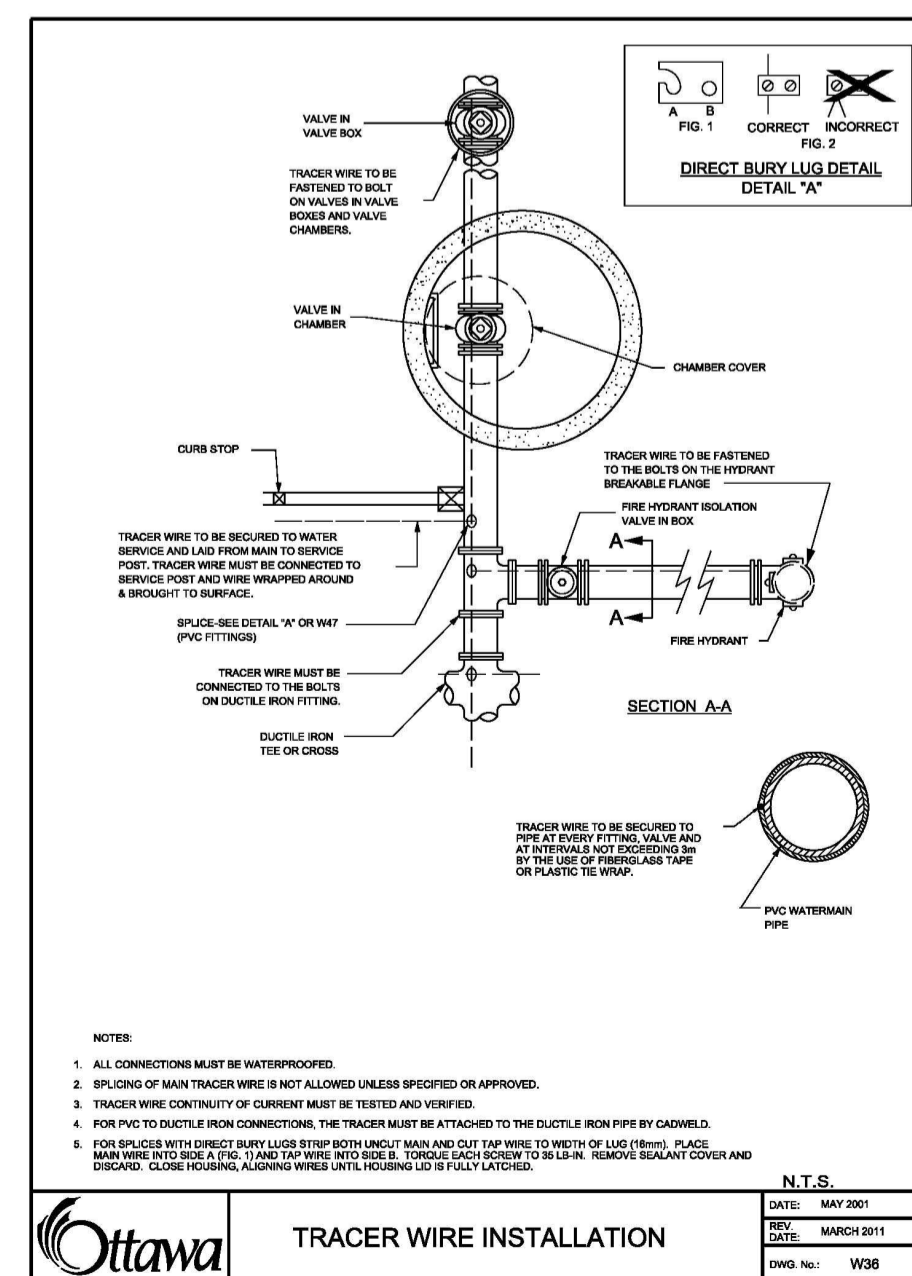
PIPE DIAMETER	DIMENSION NOTED ON W23.3			
	A	B	C	D
102	150	150	150	150
152	200	200	200	200
203	300	300	200	230
254	400	400	200	270
305	600	600	300	400
406	850	850	300	650



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

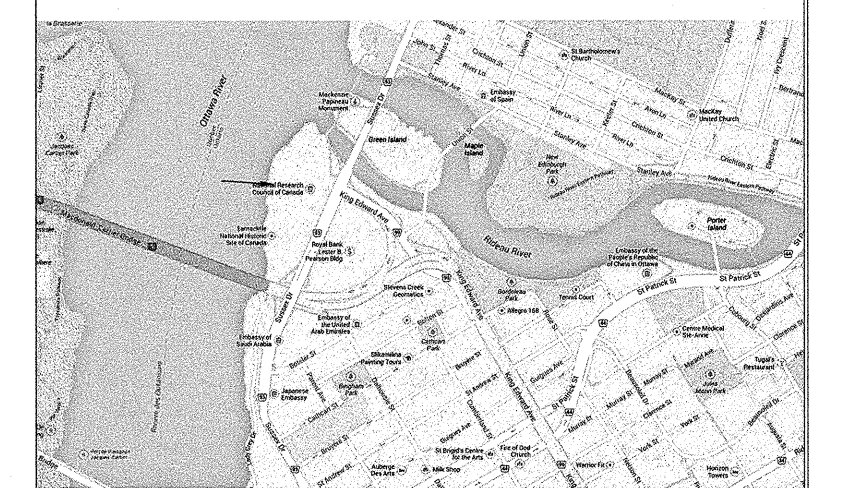
DATE: MAY 2001  
 DESIGNED: MARCH 2001  
 DWG. NO.: W23.6

PIPE DIAMETER	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





KEY PLAN



No.	Date	Revision	By
3	04 07 2016	ISSUED FOR TENDER	J.F.B.
2	17 06 2016	ISSUED FOR 90% REVIEW	J.F.B.
1	27 04 2016	ISSUED FOR TENDER REVIEW	J.F.B.

Date Printed: DD MM YYYY Date imprimée

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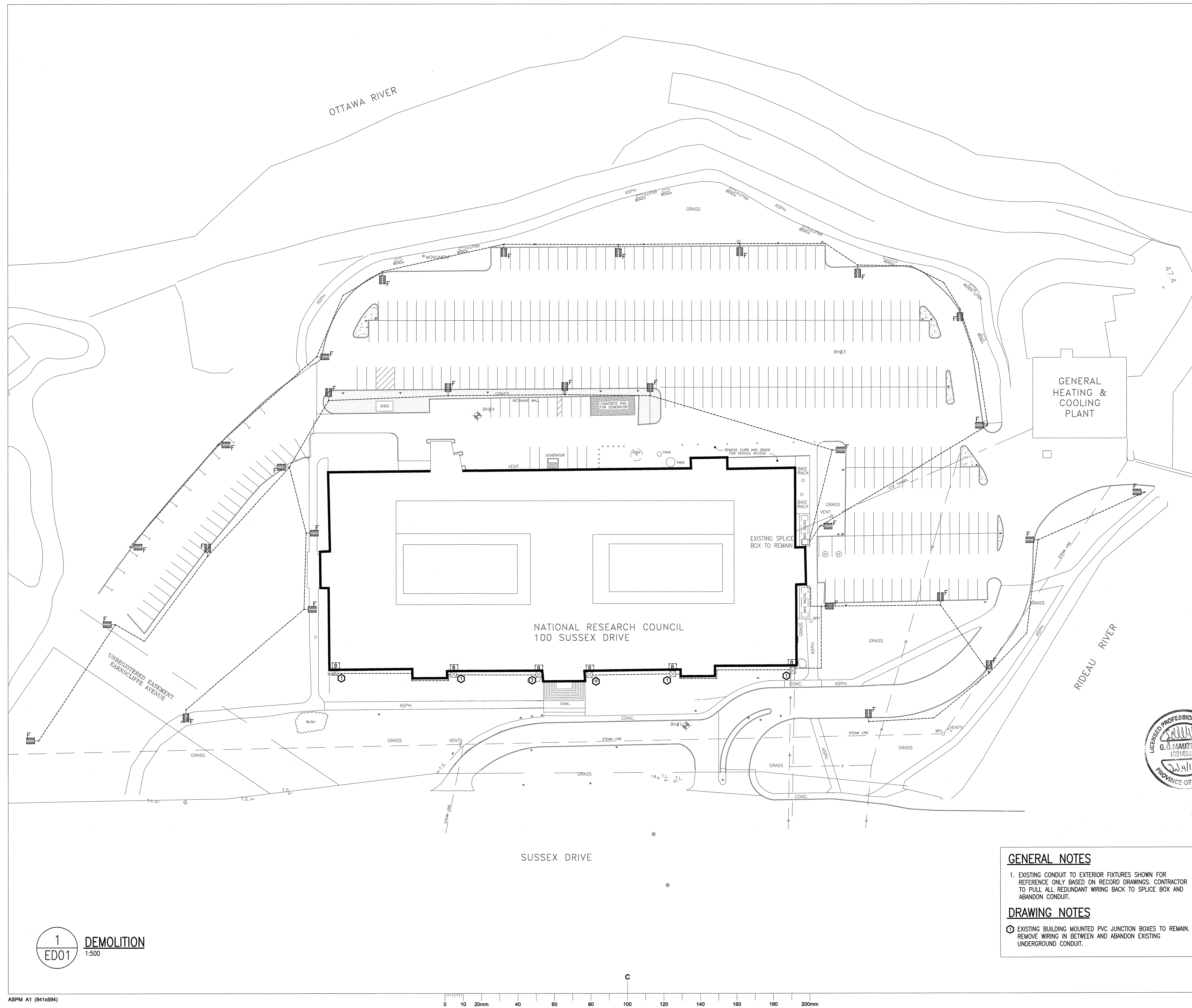
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B	B Location drawing no. sur dessin no.	BC
C	C Drawing no. dessin no.	

project: 100 SUSSEX DRIVE WATERMAIN REPLACEMENT AND PARKING LOT REHABILITATION  
 projet:

drawing: 100 SUSSEX DRIVE  
 dessin: ELECTRICAL: DEMOLITION

designed	conçu	date	date	
J.F.B.		JUNE 2016		
drawn	dessiné	scale	échelle	
J.F.B.		AS SHOWN		
checked	vérifié	sheet	of/de	feuille
G.O.M.		1	4	
approved	approuvé	W.O.no.	D.T.no.	
G.O.M.		A1006436-01		
dwg.no.	dessin no.			

5226-ED01

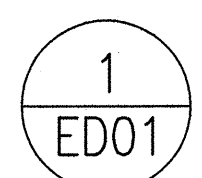


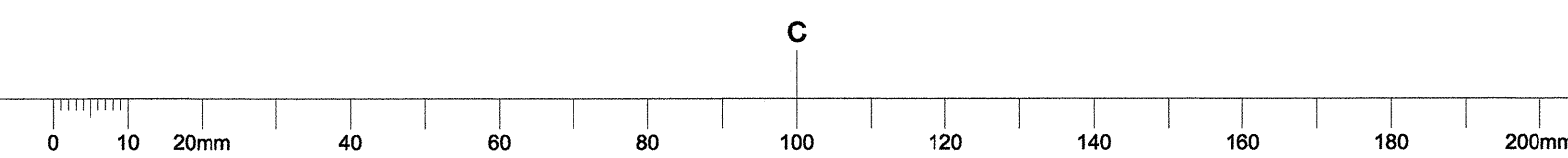
**GENERAL NOTES**

- EXISTING CONDUIT TO EXTERIOR FIXTURES SHOWN FOR REFERENCE ONLY BASED ON RECORD DRAWINGS. CONTRACTOR TO PULL ALL REDUNDANT WIRING BACK TO SPLICE BOX AND ABANDON CONDUIT.

**DRAWING NOTES**

⊕ EXISTING BUILDING MOUNTED PVC JUNCTION BOXES TO REMAIN. REMOVE WIRING IN BETWEEN AND ABANDON EXISTING UNDERGROUND CONDUIT.


**DEMOLITION**  
 ED01 1:500





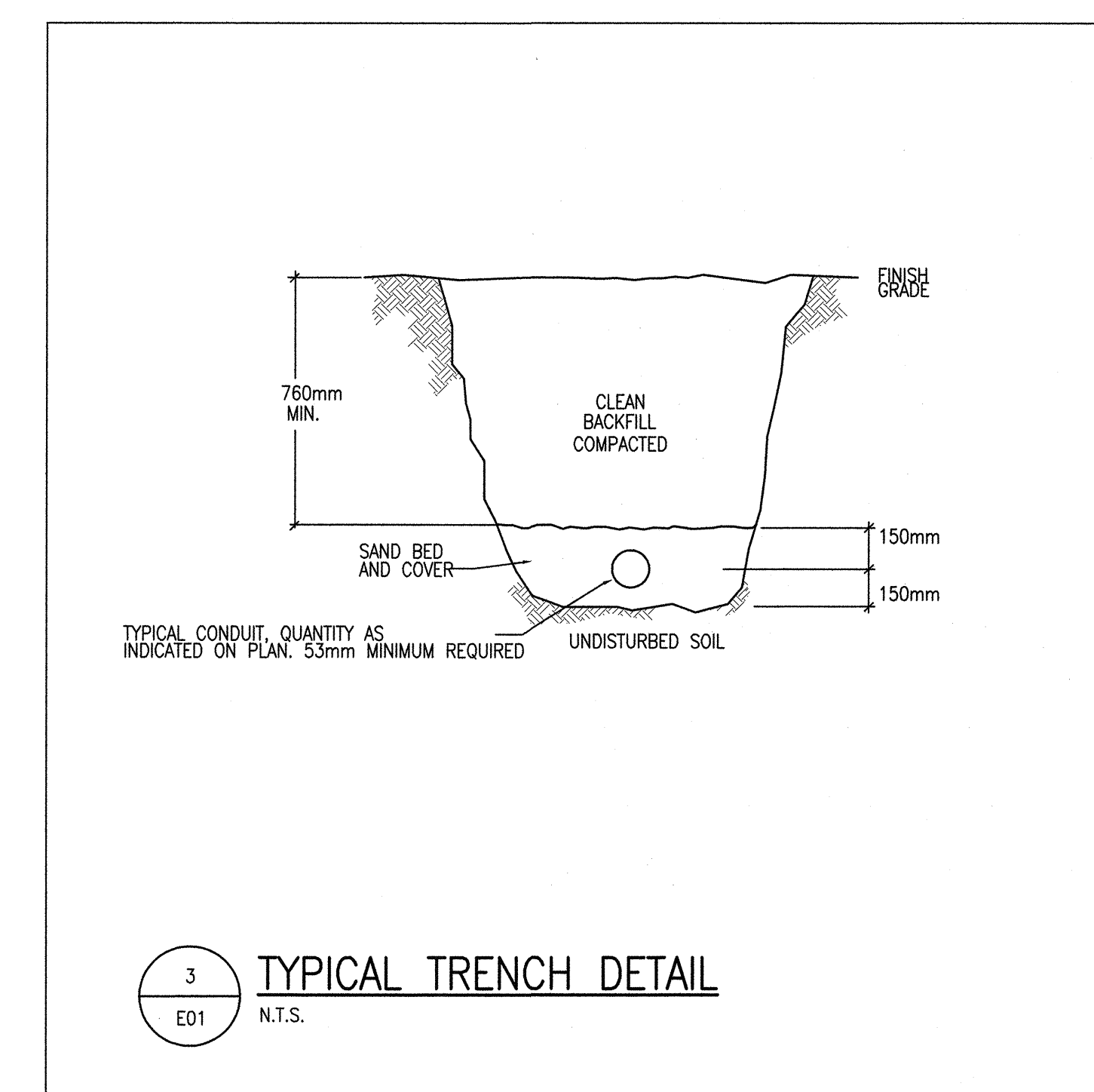
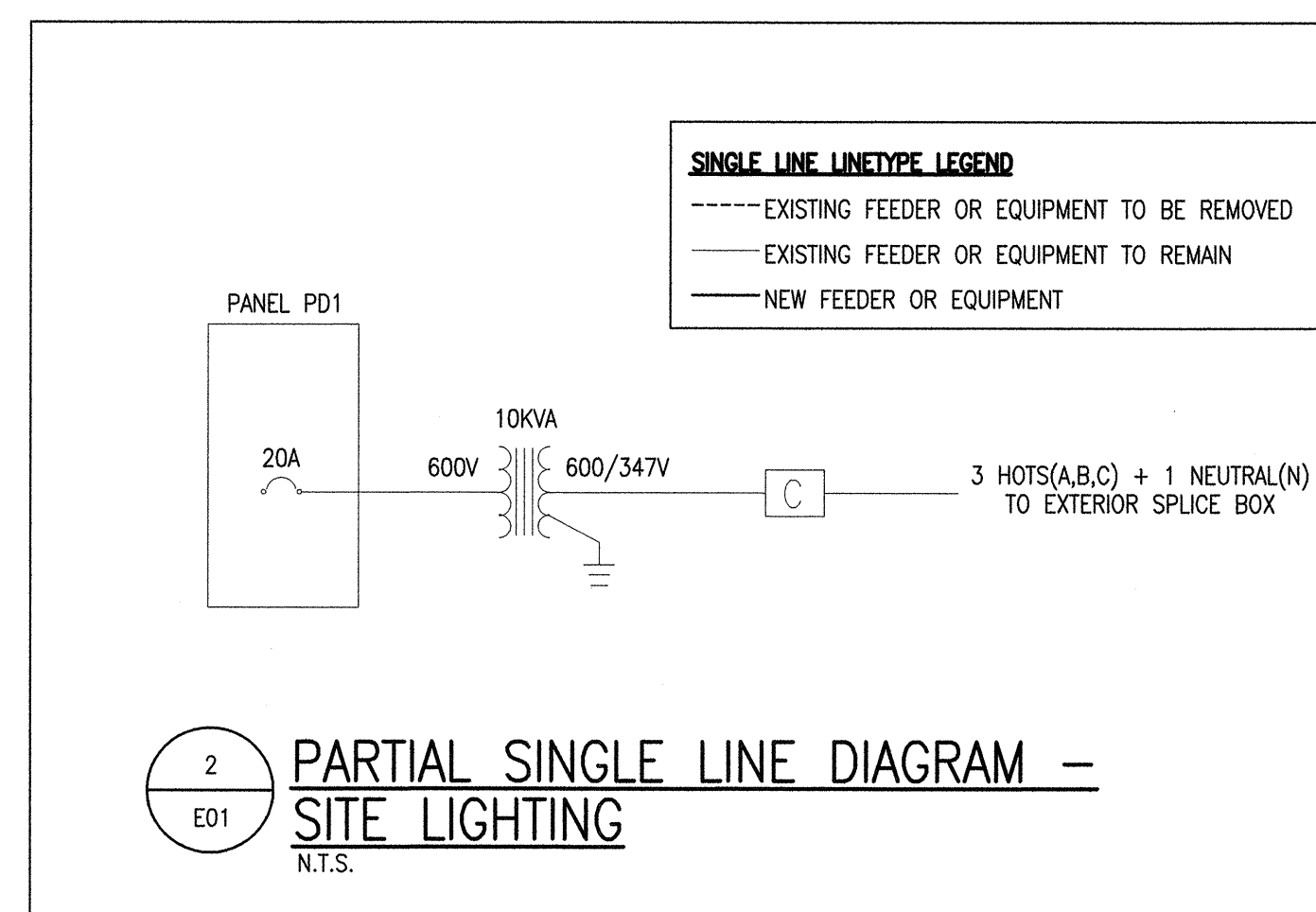
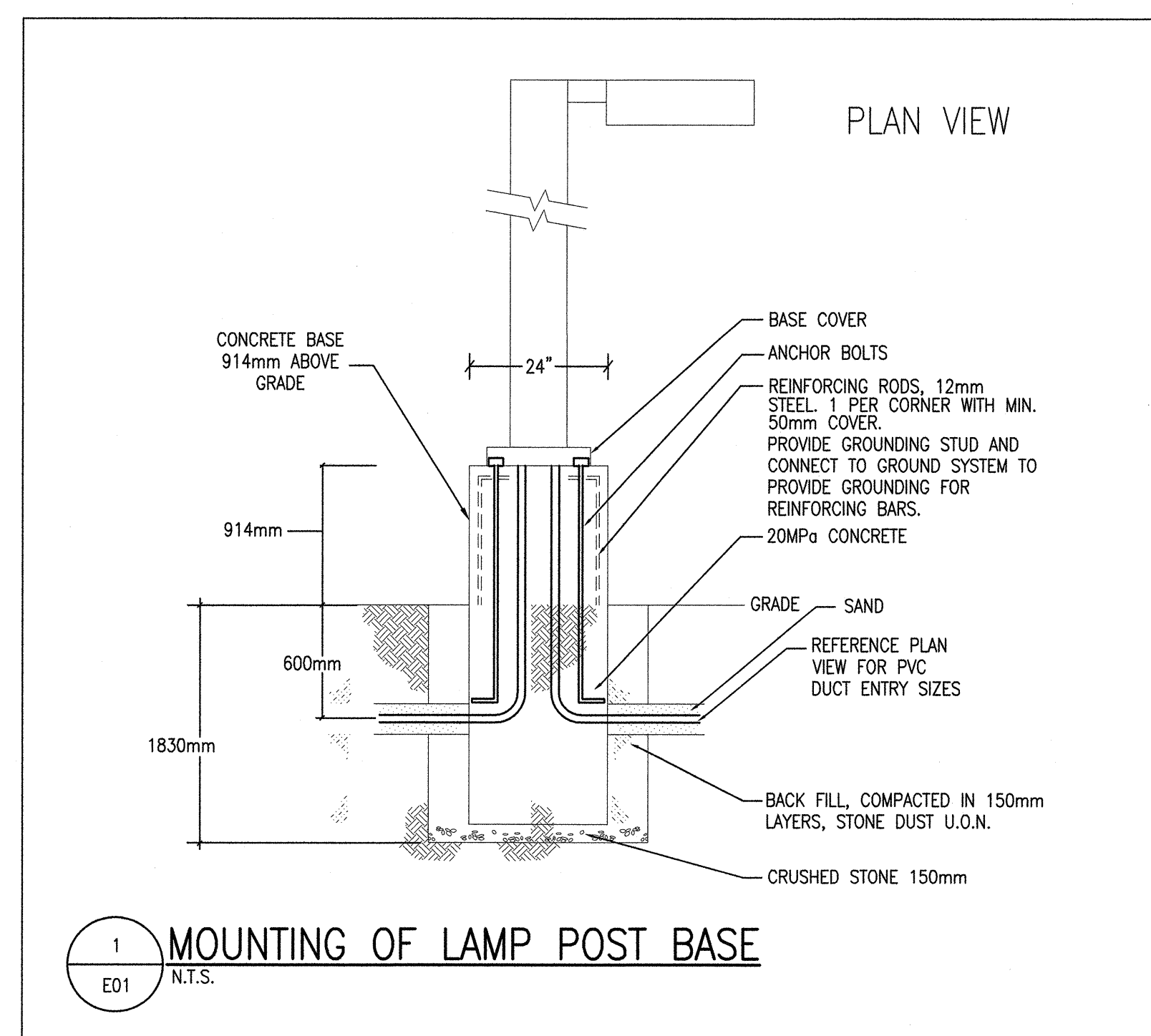
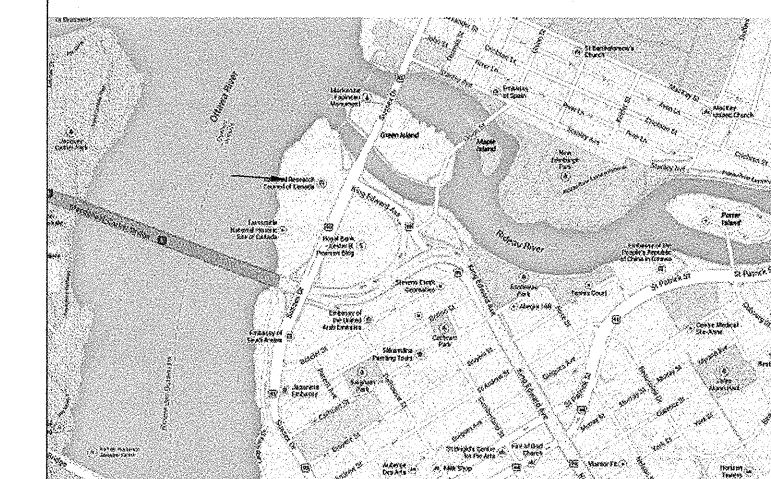
LIGHTING FIXTURE SCHEDULE									
TYPE	DESCRIPTION	LAMPS	FLUORESCENT DIMMING BALLAST	LED DIMMING DRIVER	LOW VOLTAGE TRANSFORMER	DIMMING RANGE	VOLT	MOUNTING	REMARKS
A1	POLE MOUNTED LIGHT FIXTURE. SPAULDING LIGHTING "CL1" SERIES.	150W LED					347	NEW 7.32m ROUND TAPERED ALUMINUM POLE BLACK FINISH	- 4000°K, TYPE 2 DISTRIBUTION - 60 HIGH BRIGHTNESS LEADS - BLACK FINISH, C/W PROGRAMMABLE DIMMING CONTROL - C/W w/SCAPE IN-FIXTURE RELAY FOR WIRELESS CONTROL
A2	POLE MOUNTED LIGHT FIXTURE. SPAULDING LIGHTING "CL1" SERIES.	150W LED					347	NEW 7.32m ROUND TAPERED ALUMINUM POLE BLACK FINISH	- 4000°K, TYPE 4 DISTRIBUTION - 60 HIGH BRIGHTNESS LEADS - BLACK FINISH, C/W PROGRAMMABLE DIMMING CONTROL - C/W w/SCAPE IN-FIXTURE RELAY FOR WIRELESS CONTROL
A3	POLE MOUNTED LIGHT FIXTURE. SPAULDING LIGHTING "CL1" SERIES. C/W TWO(2) FIXTURES.	300W LED					347	NEW 7.32m ROUND TAPERED ALUMINUM POLE BLACK FINISH	- 4000°K, TYPE 4 DISTRIBUTION - 60 HIGH BRIGHTNESS LEADS - BLACK FINISH, C/W PROGRAMMABLE DIMMING CONTROL - C/W w/SCAPE IN-FIXTURE RELAY FOR WIRELESS CONTROL
A4	POLE MOUNTED LIGHT FIXTURE. SPAULDING LIGHTING "CL1" SERIES. C/W THREE(3) FIXTURES.	450W LED					347	NEW 7.32m ROUND TAPERED ALUMINUM POLE BLACK FINISH	- 4000°K, TYPE 4 DISTRIBUTION - 60 HIGH BRIGHTNESS LEADS - BLACK FINISH, C/W PROGRAMMABLE DIMMING CONTROL - C/W w/SCAPE IN-FIXTURE RELAY FOR WIRELESS CONTROL
B1	POLE MOUNTED LIGHT FIXTURE. SPAULDING LIGHTING "CL1S" SERIES.	110W LED					347	NEW 5.49m ROUND TAPERED ALUMINUM POLE BLACK FINISH	- 4000°K, TYPE 4 DISTRIBUTION - 48 HIGH BRIGHTNESS LEADS - BLACK FINISH, C/W PROGRAMMABLE DIMMING CONTROL - C/W w/SCAPE IN-FIXTURE RELAY FOR WIRELESS CONTROL
B2	POLE MOUNTED LIGHT FIXTURE. SPAULDING LIGHTING "CL1S" SERIES.	110W LED					347	NEW 5.49m ROUND TAPERED ALUMINUM POLE BLACK FINISH	- 4000°K, TYPE 2 DISTRIBUTION - 48 HIGH BRIGHTNESS LEADS - BLACK FINISH, C/W PROGRAMMABLE DIMMING CONTROL - C/W w/SCAPE IN-FIXTURE RELAY FOR WIRELESS CONTROL
B3	POLE MOUNTED LIGHT FIXTURE. SPAULDING LIGHTING "CL1S" SERIES.	110W LED					347	NEW 5.49m ROUND TAPERED ALUMINUM POLE BLACK FINISH	- 4000°K, TYPE 3 DISTRIBUTION - 48 HIGH BRIGHTNESS LEADS - BLACK FINISH, C/W PROGRAMMABLE DIMMING CONTROL - C/W w/SCAPE IN-FIXTURE RELAY FOR WIRELESS CONTROL
C	POLE MOUNTED LIGHT FIXTURE.	LED					347	EXISTING COPPER DECORATIVE POLE ON CONCRETE STAIR STRUCTURE TO REMAIN	- RE-WIRE FIXTURE - REPLACE EXISTING POST-TOP GLOBE AND HID LAMP ASSEMBLY WITH NEW LED GLOBE AND DRIVER ASSEMBLY
D	POLE MOUNTED LIGHT FIXTURE.	LED					347	EXISTING CONCRETE POLE TO REMAIN	- RE-WIRE FIXTURE - REPLACE EXISTING POST-TOP GLOBE AND HID LAMP ASSEMBLY WITH NEW LED GLOBE AND DRIVER ASSEMBLY
F	POLE MOUNTED LIGHT FIXTURE. EXISTING TO BE REMOVED	175W MH					347	EXISTING ROUND METAL POLE TO BE REMOVED C/W BASE	- DISCONNECT AND REMOVE FROM SITE

NOTE - ACCEPTABLE ALTERNATES TO FIXTURE TYPES A1, A2, A3, A4, B1, B2, B3: LITHONIA LIGHTING "DSX1" SERIES.

REMOVE	EXISTING TO REMAIN	NEW AND/OR RELOCATED	ELECTRICAL LEGEND
			EXTERIOR POLE MOUNTED LIGHT FIXTURE. LETTER DENOTES TYPE.
			TRANSFORMER (RATED AS SHOWN).
			JUNCTION BOX.
			REMOTE BALLAST.
			SURFACE MOUNTED ELECTRICAL PANEL.
			MOTOR CONNECTION.
			DISCONNECT SWITCH.

ABBREVIATIONS:  
 N.T.S. - NOT TO SCALE  
 U.O.N. - UNLESS OTHERWISE NOTED  
 C/W - COMPLETE WITH

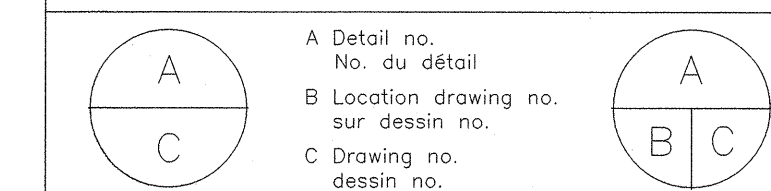
KEY PLAN



No.	Date	Revision	By:	Part:
3	04 07 2016	ISSUED FOR TENDER	J.F.B.	
2	17 06 2016	ISSUED FOR 90% REVIEW	J.F.B.	
1	27 04 2016	ISSUED FOR TENDER REVIEW	J.F.B.	

Date Printed DD MM YYYY Date imprimée

- o Verify all dimensions and site conditions and be responsible for same
- o Vérifier toutes les dimensions et l'état des lieux et en assumer la responsabilité



project projet

100 SUSSEX DRIVE WATERMAIN REPLACEMENT AND PARKING LOT REHABILITATION

100 SUSSEX DRIVE

drawing dessin

ELECTRICAL: LEGEND, DRAWING LIST, SCHEDULES AND DETAILS

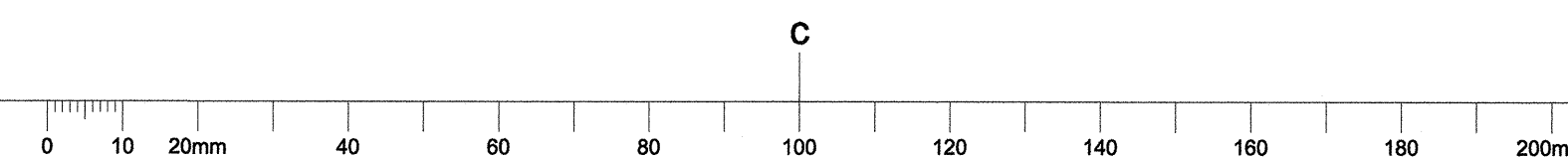
designed J.F.B. conçu date JUNE 2016 date

drawn J.F.B. dessiné scale NTS échelle

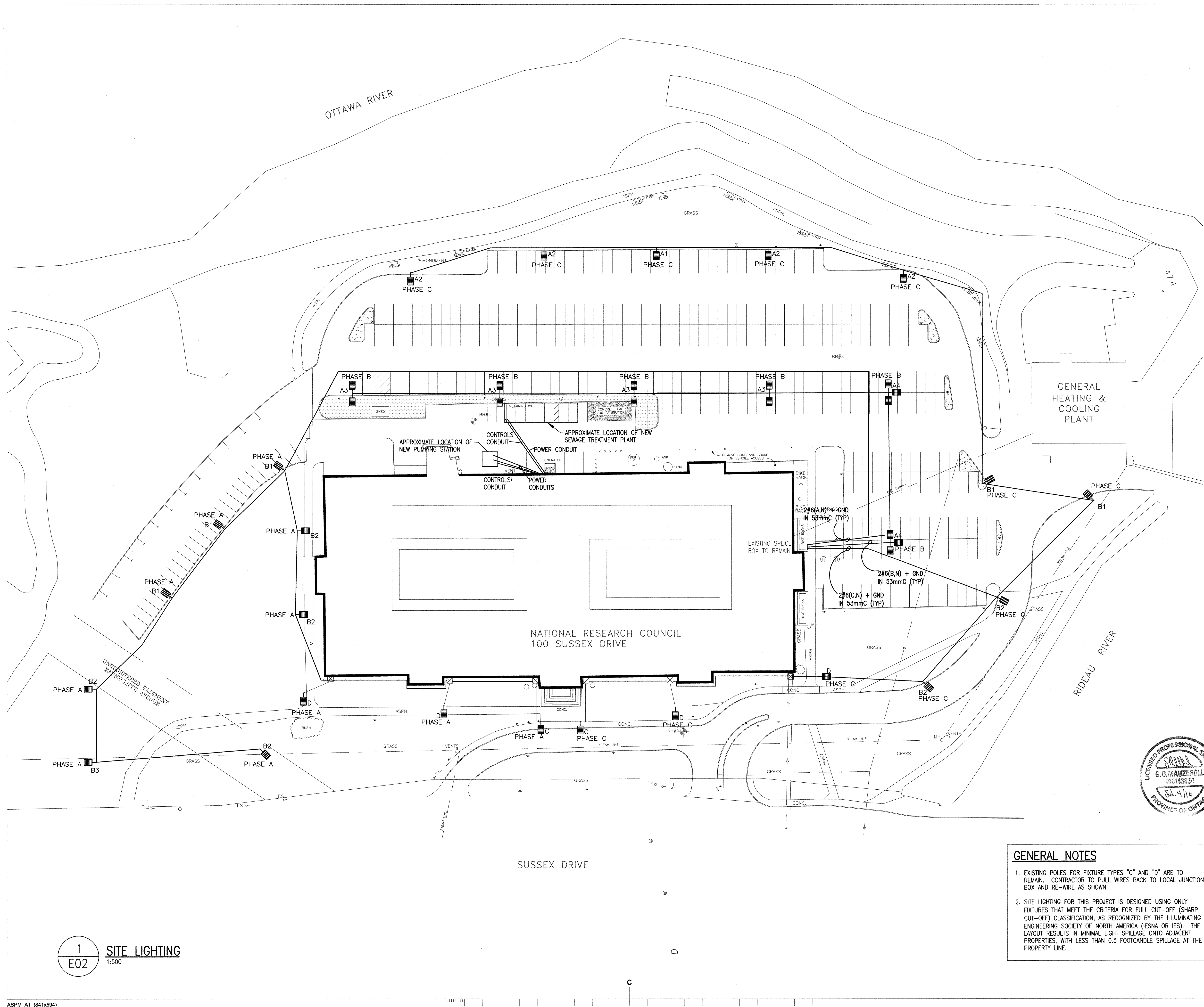
checked G.O.M. vérifié sheet 2 of/de 4 feuille

approved G.O.M. approuvé W.O.no. A1006436-01 D.T.no.

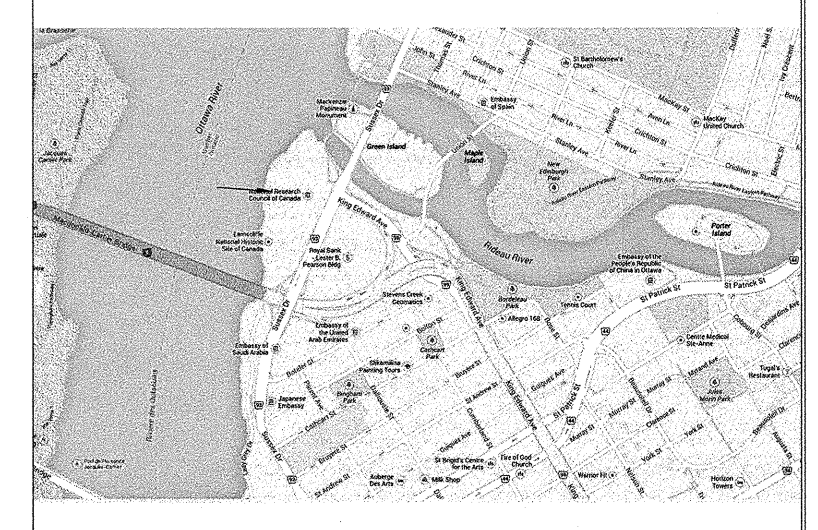
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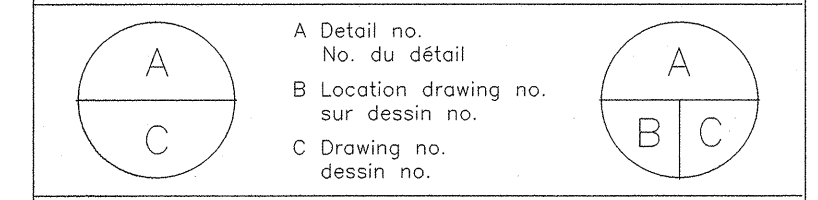
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project dessin

100 SUSSEX DRIVE WATERMAIN REPLACEMENT AND PARKING LOT REHABILITATION

100 SUSSEX DRIVE

ELECTRICAL: SITE LIGHTING

designed J.F.B. conçu date JUNE 2016 date

drawn J.F.B. dessin scale AS SHOWN échelle

checked G.O.M. vérifié sheet 3 of/de 4 feuille

approved G.O.M. approuvé W.O.no. A1006436-01 D.T.no.

dwg.no. 5226-E02 dessin no.

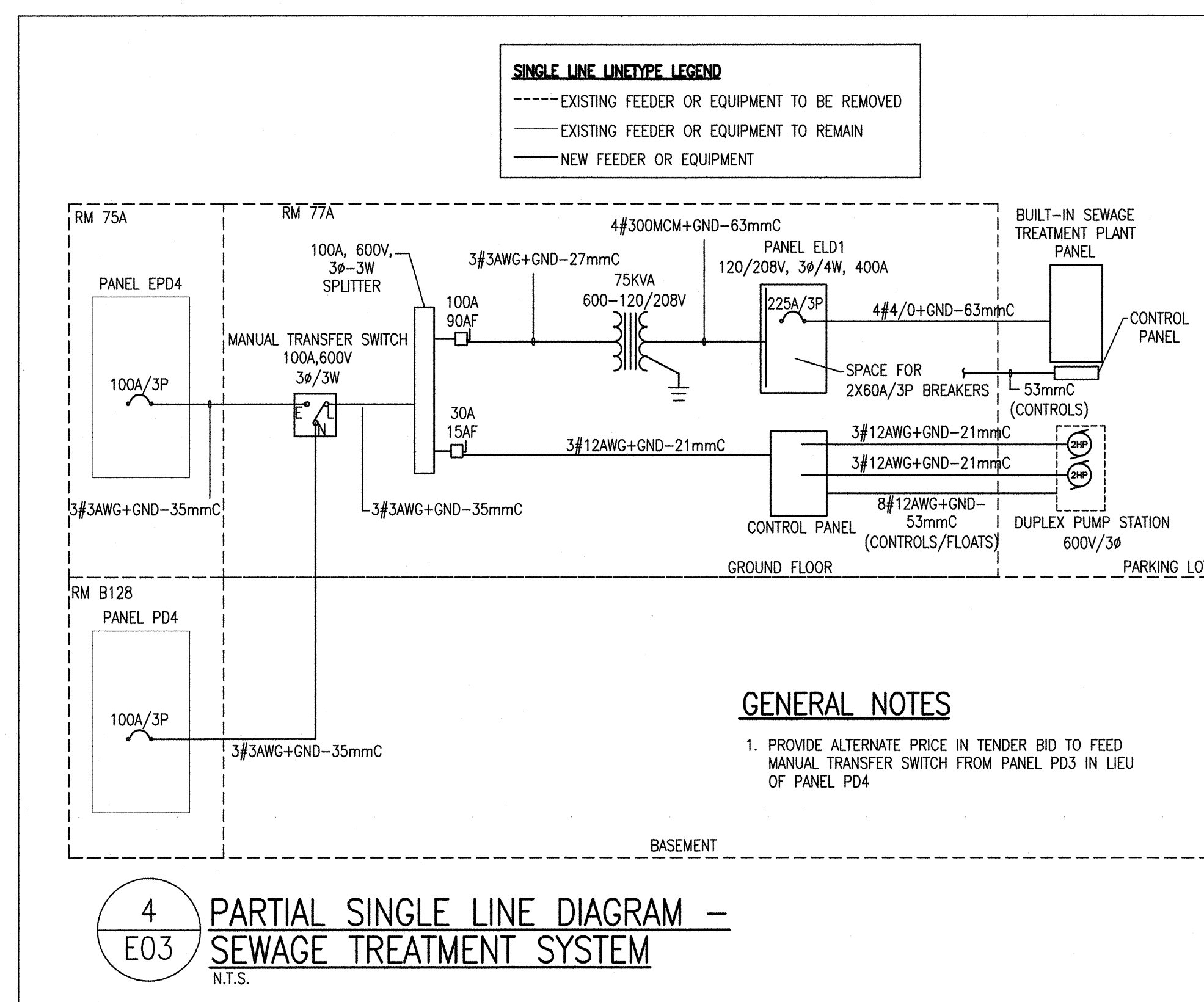
**GENERAL NOTES**

- EXISTING POLES FOR FIXTURE TYPES "C" AND "D" ARE TO REMAIN. CONTRACTOR TO PULL WIRES BACK TO LOCAL JUNCTION BOX AND RE-WIRE AS SHOWN.
- SITE LIGHTING FOR THIS PROJECT IS DESIGNED USING ONLY FIXTURES THAT MEET THE CRITERIA FOR FULL CUT-OFF (SHARP CUT-OFF) CLASSIFICATION, AS RECOGNIZED BY THE ILLUMINATING ENGINEERING SOCIETY OF NORTH AMERICA (IESNA OR IES). THE LAYOUT RESULTS IN MINIMAL LIGHT SPILLAGE ONTO ADJACENT PROPERTIES, WITH LESS THAN 0.5 FOOTCANDLE SPILLAGE AT THE PROPERTY LINE.

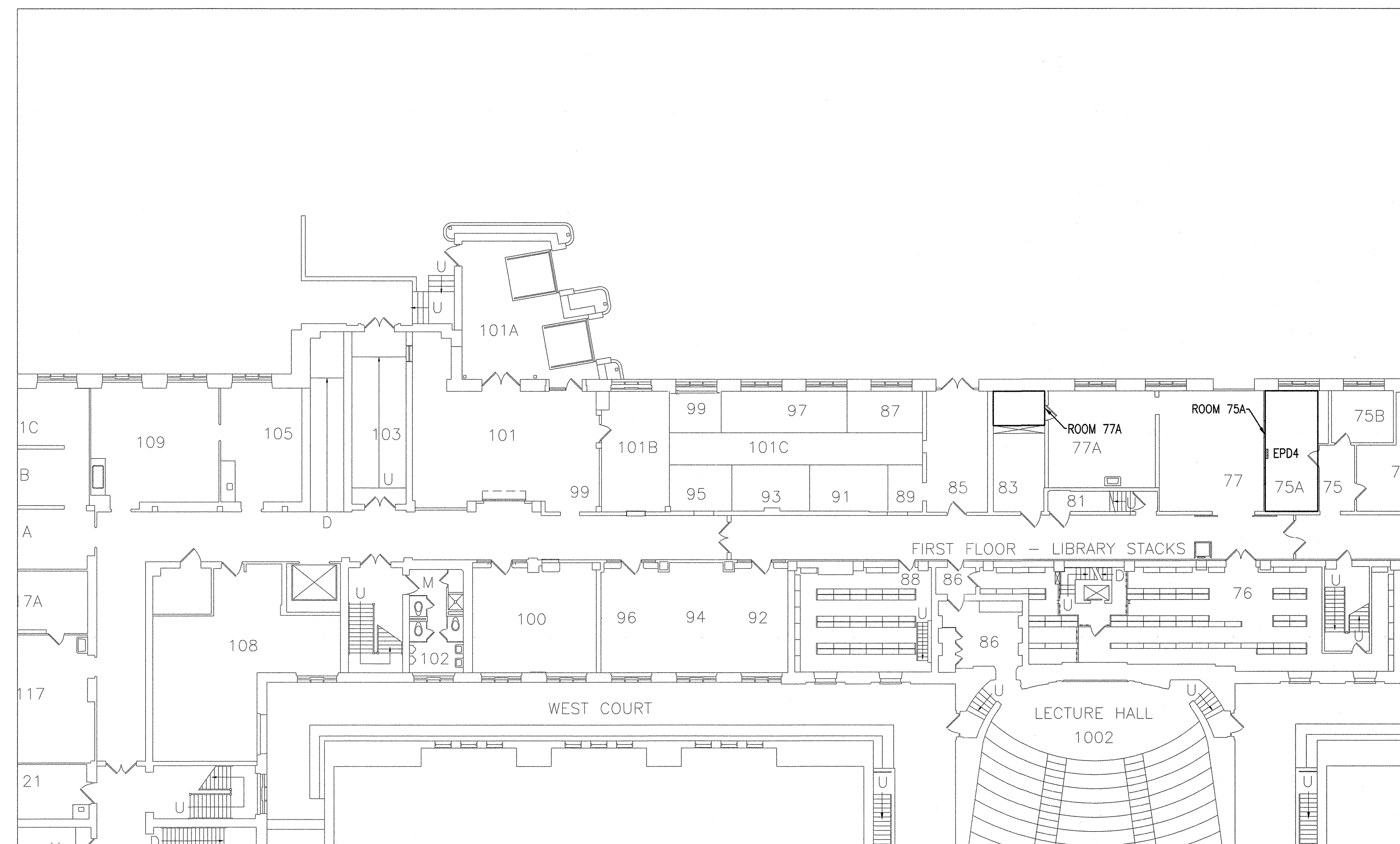


1 SITE LIGHTING  
 E02 1:500

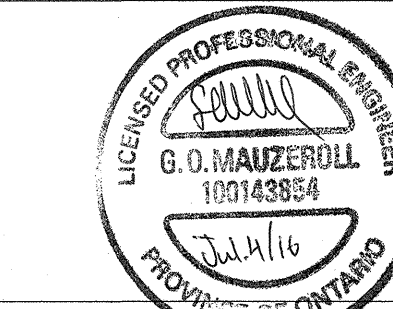




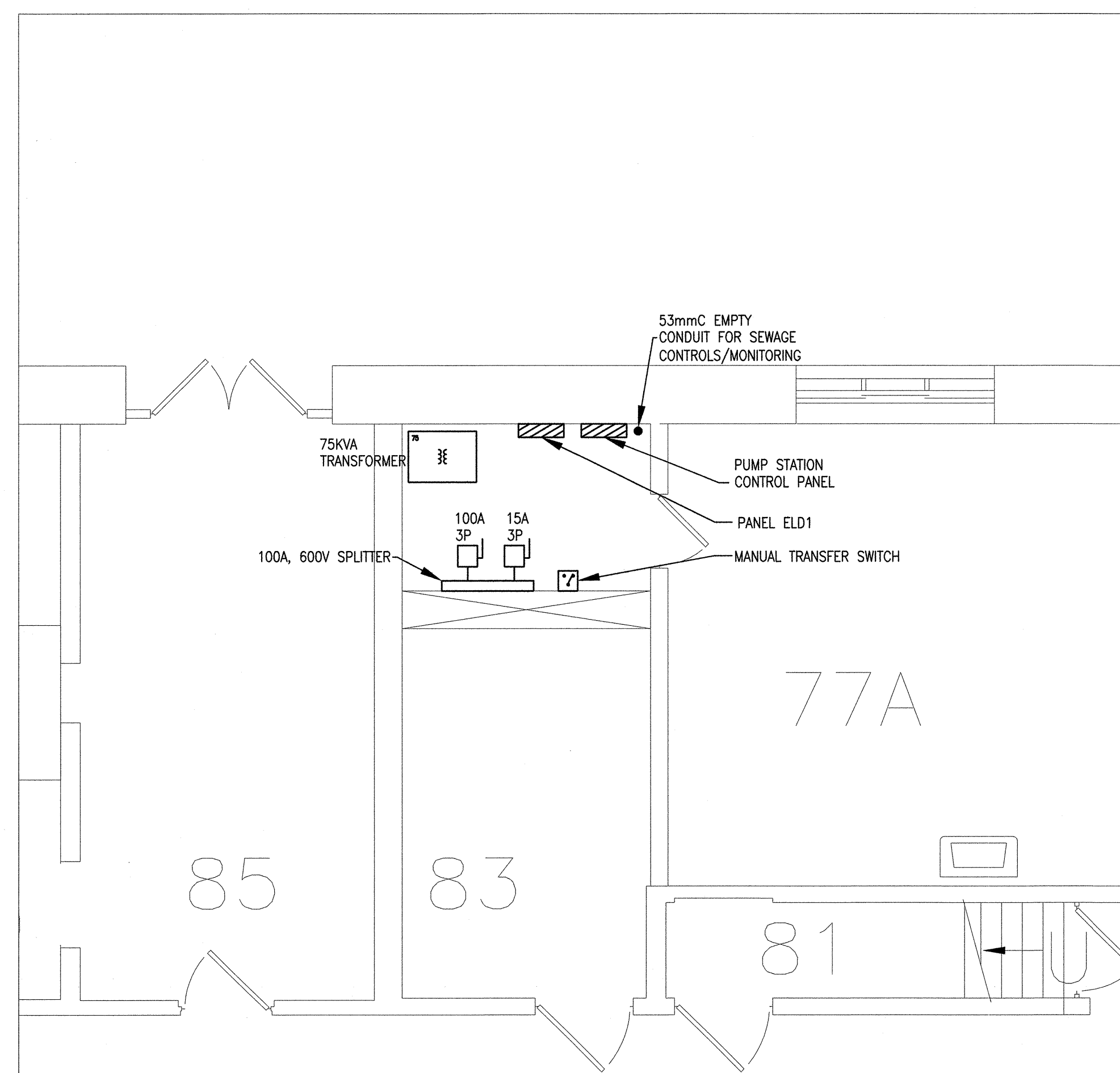
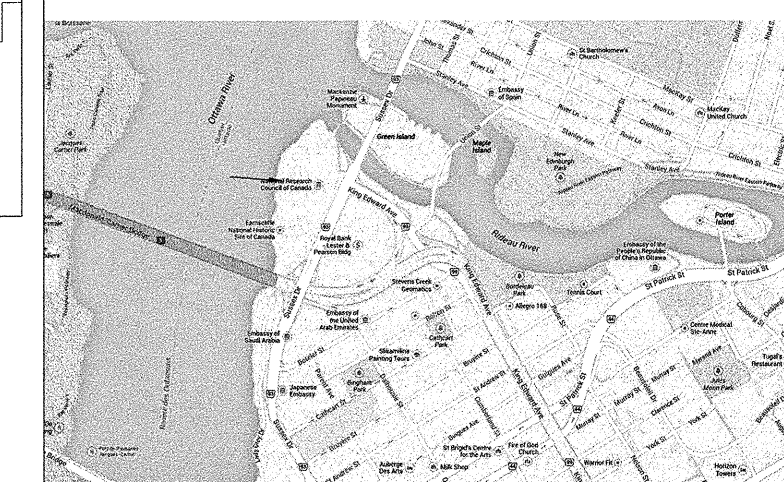
**4 PARTIAL SINGLE LINE DIAGRAM - SEWAGE TREATMENT SYSTEM**  
 N.T.S.



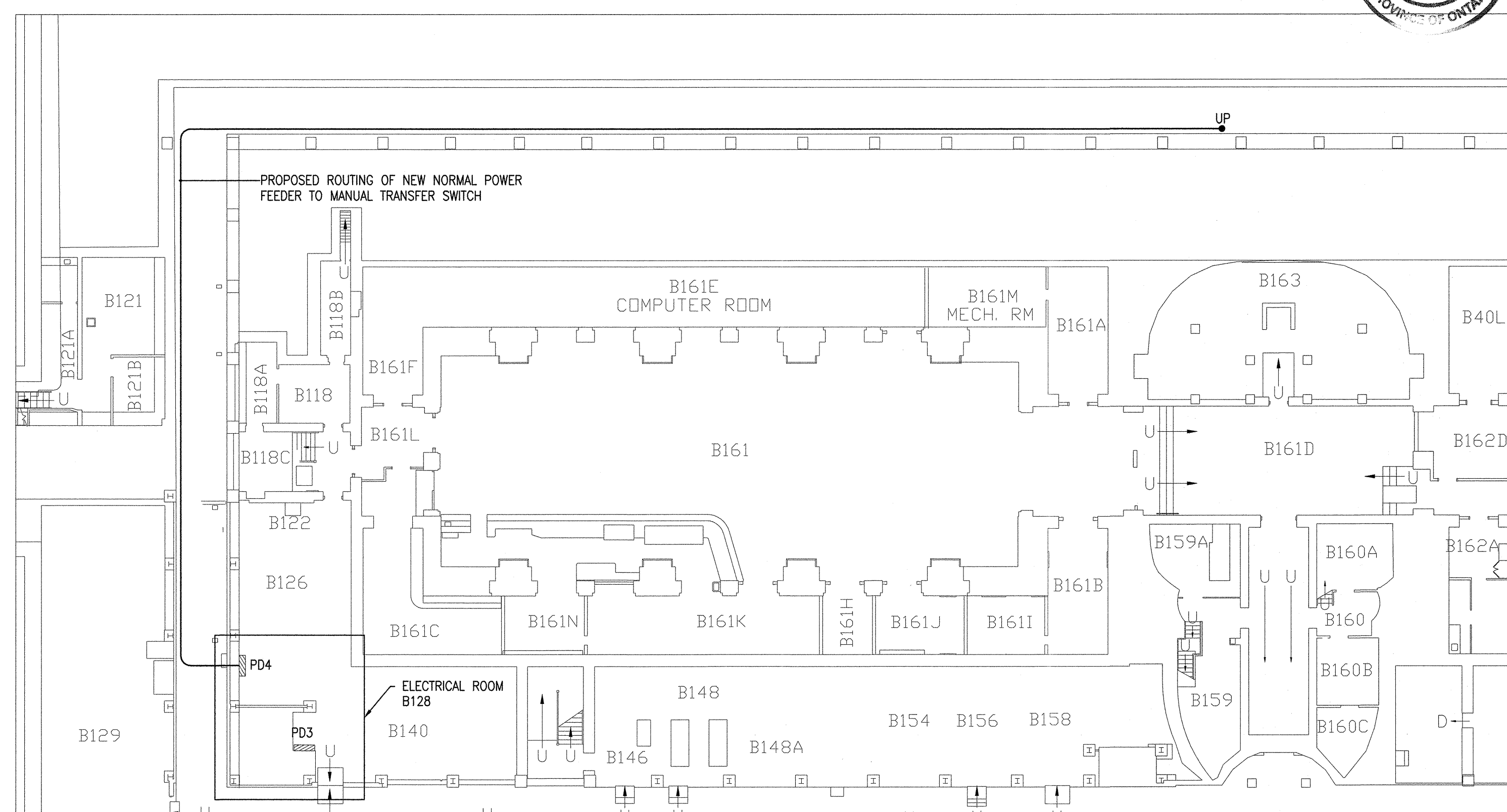
**1 KEYPLAN - GROUND FLOOR**  
 1:200



KEY PLAN



**3 POWER - ROOM 77A - GROUND FLOOR**  
 1:50

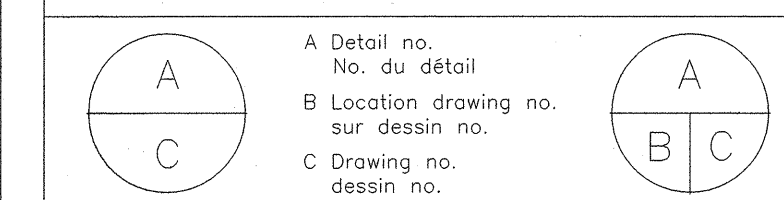


**2 KEYPLAN - BASEMENT**  
 1:200

No.	Date	Revision	By:
3	04 07 2016	ISSUED FOR TENDER	J.F.B.
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1	27 04 2016	ISSUED FOR TENDER REVIEW	J.F.B.

Date Printed 00 MM YYYY Date imprimée

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project  
**100 SUSSEX DRIVE WATERMAIN REPLACEMENT AND PARKING LOT REHABILITATION**  
 projet

drawing  
**100 SUSSEX DRIVE**  
 dessin

**ELECTRICAL: POWER - SEWAGE TREATMENT PLANT**

designed	conçu	date	date
J.F.B.		JUNE 2016	
drawn	dessiné	scale	échelle
J.F.B.		AS SHOWN	
checked	vérifié	sheet	feuille
G.O.M.		4 of/ de 4	
approved	approuvé	W.O.no.	D.T.no.
G.O.M.		A1006436-01	

dwg.no. dessin no.  
**5226-E03**