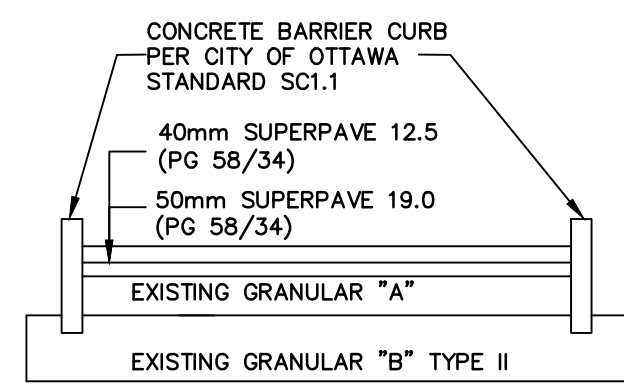
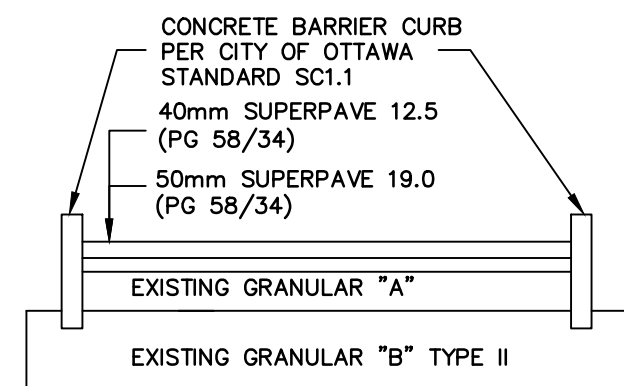


**LEGEND**

- PROPERTY LINE
- 99.21 EXISTING ELEVATION
- EXISTING SANITARY SEWER
- EXISTING WATERMAIN
- EXISTING STORM SEWER
- x-x-x-x EXISTING FENCE
- EXISTING HYDRO POLE
- EXISTING CATCHBASIN
- GAS --- EXISTING GASMAIN
- EXISTING STREET LINE
- EXISTING HYDRANT
- ⊕ EXISTING V&VB, V&VC
- 97.55 PROPOSED GRADE
- 2.0% DIRECTION AND SLOPE
- 98.08 PROPOSED EDGE OF PAVEMENT GRADE
- 98.20 PROPOSED CENTERLINE ROAD GRADE
- ← OVERLAND FLOW ROUTE
- PROPOSED CATCHBASIN
- DEPRESSED CURB
- SILT FENCE



**NOTES: GENERAL**

- CONTRACTOR IS RESPONSIBLE FOR ALL LAYOUT FOR CONSTRUCTION
- ALL ELEVATIONS / DIMENSIONS ARE IN METRIC UNITS.
- JOB BENCH MARK - CONFIRM WITH NRC PRIOR TO UTILIZATION.
- ALL GROUND SURFACES SHALL BE EVENLY GRADED WITHOUT PONDING AREAS AND WITHOUT LOW POINTS EXCEPT WHERE APPROVED SWALE OR CATCHBASIN OUTLETS ARE PROVIDED.
- ALL DISTURBED AREAS SHALL BE REINSTATED TO EQUAL OR BETTER CONDITION TO THE SATISFACTION OF THE NRC DEPARTMENTAL REPRESENTATIVE.
- ALL EDGES OF DISTURBED PAVEMENT SHALL BE SAW CUT TO FORM A NEAT AND STRAIGHT LINE PRIOR TO PLACING NEW PAVEMENT.
- ALL MATERIAL SUPPLIED AND PLACED FOR PARKING LOT AND ACCESS ROAD CONSTRUCTION SHALL BE TO OPS STANDARDS AND SPECIFICATIONS UNLESS OTHERWISE NOTED. (CONSTRUCTION OPSS 206, 310 & 314 MATERIALS OPSS 1001, 1003 & 1010).
- REFER TO GEOMETRY LAYOUT DRAWINGS FOR ROAD AND PARKING LOT DIMENSIONS AND SITE LAYOUT. DIMENSIONS AND LAYOUT INFORMATION SHALL BE CONFIRMED PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE FOR ALL DEWATERING, SUPPORT AND PROTECTION OF EXCAVATIONS.
- DESIGN ELEVATIONS AS GIVEN ON THIS PLAN ARE TO BE ADHERED TO WITH NO CHANGES WITHOUT PRIOR WRITTEN APPROVAL BY NRC DEPARTMENTAL REPRESENTATIVE.
- CONTRACTOR TO INSTALL AND MAINTAIN A FILTER CLOTH "CATCH" ACROSS ALL MH/CB LIDS TO PREVENT SEDIMENTS AND GRANULARS FROM ENTERING STRUCTURES UNTIL SOIL AND PAVING IS COMPLETE. ANY SEDIMENTS/GANULARS ENTERING STRUCTURES AND SEWERS SHALL BE IMMEDIATELY REMOVED.
- CONTRACTOR TO CONFIRM LOCATION(S) AND ELEVATION(S) OF EXISTING SERVICES AND STRUCTURES TO BE CONNECTED TO AND EXISTING SERVICES THAT MAY CAUSE CONFLICTS PRIOR TO CONSTRUCTION OF ANY NEW SEWER AND/OR STORM WATER WORKS. THE NRC DEPARTMENTAL REPRESENTATIVE SHALL BE INFORMED IMMEDIATELY OF ANY ERRORS, DISCREPANCIES, CONFLICTS, OMISSIONS ETC THAT ARE FOUND.
- THE CONTRACTOR SHALL APPRAISE HIS/HER SELF OF ALL SURFACE AND SUBSURFACE CONDITIONS TO BE ENCOUNTERED AND SHALL CARRY OUT THEIR OWN TEST PITS AS REQUIRED TO MAKE THEIR OWN INDEPENDENT ASSESSMENT OF GROUND CONDITIONS. THE CONTRACTOR SHALL NOT MAKE ANY CLAIM FOR ANY EXTRA COST DUE TO ANY SUCH GROUND CONDITIONS VARYING FROM THOSE ANTICIPATED BY THE CONTRACTOR.
- THE CONTRACTOR SHALL COORDINATE AND PAY FOR ALL CONSTRUCTION RELATED PERMITS, FEES, INSPECTIONS AND APPROVALS REQUIRED.
- ASPHALTIC CONCRETE SHALL NOT BE PLACED UNTIL FINAL CCTV INSPECTION OF THE SEWERS IN ACCORDANCE WITH OPSS 409 HAVE BEEN COMPLETED AND APPROVED BY THE NRC DEPARTMENTAL REPRESENTATIVE.
- OPSS 409 TO BE FOLLOWED AS CONSTRUCTION SPECIFICATION FOR CLOSED-CIRCUIT TELEVISION INSPECTION OF PIPELINES.

**PRE-CONSTRUCTION INSPECTION:**  
PRIOR TO COMMENCING CONSTRUCTION, A PRE-CONSTRUCTION CCTV INSPECTION MUST BE COMPLETED ON ALL THE SEWERS WITHIN THE CONSTRUCTION LIMITS PLUS THE FIRST LENGTH OF EXISTING SEWER PIPES OUTSIDE OF THE CONTRACT LIMITS INCLUDING CROSS STREETS. WITH THE EXCEPTION OF ANY PIPES THAT ARE BEING REMOVED DURING CONSTRUCTION, WHICH DO NOT REQUIRE PRE-CONSTRUCTION CCTV INSPECTION.

**POST-CONSTRUCTION INSPECTION:**  
UPON COMPLETION OF BINDER COURSE ASPHALT BUT BEFORE APPLYING THE FINAL COURSE OF ASPHALT, A POST-CONSTRUCTION CCTV INSPECTION MUST BE COMPLETED ON ALL THE SEWERS WITHIN THE CONSTRUCTION LIMITS PLUS THE FIRST LENGTH OF EXISTING SEWER PIPES OUTSIDE OF THE CONTRACT LIMITS INCLUDING CROSS STREETS.

- THE CONTRACTOR IS RESPONSIBLE FOR ALL RE-CCTV RESULTING FROM DEFICIENCY REPAIRS AS DEEMED NECESSARY BY THE NRC DEPARTMENTAL REPRESENTATIVE. CCTV INSPECTIONS WILL BE CONDUCTED UNTIL SUCH TIME AS THE RESULTS HAVE BEEN APPROVED BY THE ENGINEER AND/OR THE NRC DEPARTMENTAL REPRESENTATIVE AT NO ADDITIONAL COST TO THE CLIENT.
- CONTRACTOR SHALL MAINTAIN A CLEAN SITE AND KEEP ALL ROADS AND SIDEWALKS CLEAN AND FREE FROM DIRT AND MUD AT ALL TIMES. USE MECHANICAL SWEEPING/FLUSHING WHEN NECESSARY. IF THE CONTRACTOR REFUSES OR NEGLECTS TO CLEAN WHEN OR AS DIRECTED BY THE DEPARTMENTAL REPRESENTATIVE, THE DEPARTMENTAL REPRESENTATIVE MAY ARRANGE FOR NECESSARY CLEANING, WITH COSTS BEING RECOVERED FROM PAYMENTS TO THE CONTRACTOR.
- THE CONTRACTOR SHALL AT ALL TIMES, KEEP THE WORK SITE FREE FROM ACCUMULATION OF WASTE MATERIALS AND RUBBISH DUE TO EMPLOYEES OR THE WORK. CLEANING, TO THE SATISFACTION OF THE DEPARTMENTAL REPRESENTATIVE SHALL BE A MANDATORY CONDITION TO THE FINAL ACCEPTANCE OF THE WORK.

**NOTES: ROADWAYS, PARKING LOTS, SIDEWALKS & CURBS**

- ALL CURB TO BE 150mm ABOVE FINISHED ASPHALT GRADE UNLESS OTHERWISE NOTED. ALL CURBS MUST CONFORM TO OPSS 353. ALL CURBS TO BE CONSTRUCTED PER CITY OF OTTAWA STANDARD SC1.1.
- ASPHALT SIDEWALKS MUST CONFORM TO OPSS 311 AND HAVE A 2.4M WIDTH (MIN.), UNLESS STATED OTHERWISE. ASPHALT SIDEWALKS TO BE CONSTRUCTED AS PER CITY OF OTTAWA STANDARD SC20.
- ROADWAYS AND PARKING AREAS TO BE CONSTRUCTED AS PER PAVEMENT STRUCTURE DETAILS FOR LIGHT DUTY AND HEAVY DUTY DESIGN. UNLESS OTHERWISE NOTED.

**NOTES: RE-INSTATEMENT**

- ALL DISTURBED AREAS SHALL BE REINSTATED TO MATCH EXISTING CONDITIONS OR BETTER AS DIRECTED BY THE NRC DEPARTMENTAL REPRESENTATIVE.
- EXISTING TREES ARE TO BE PRESERVED AND PROTECTED DURING THE CONSTRUCTION AND REINSTATEMENT ACTIVITIES IN ACCORDANCE WITH OPSS 801 AND OPSS 220.010.
- PATHWAYS, WALKWAYS AND RELATED LANDSCAPE OR ASPHALT AREAS SHALL BE REINSTATED TO MATCH EXISTING MATERIAL IN TYPE AND THICKNESS.
- ASPHALT REINSTATEMENT MUST BE IN ACCORDANCE WITH OPSS 310.
- LANDSCAPE AREAS TO BE REINSTATED WITH 150mm OF TOPSOIL AND SOO IN ACCORDANCE WITH OPSS 802 AND OPSS 803.
- PAVEMENT MARKING REINSTATEMENT TO MATCH EXISTING IN ACCORDANCE WITH OPSS 710, EXCEPT AS OTHERWISE SHOWN ON DRAWINGS.
- WHERE REQUIRED, THE CONTRACTOR MUST ADJUST EXISTING STRUCTURES (VALVES, HYDRANTS, MANHOLES, CATCHBASINS, ETC) TO MATCH PROPOSED GRADE ELEVATIONS

**NOTES: CATCHBASIN**

- ALL WORK SHALL BE PERFORMED, AS APPLICABLE, IN ACCORDANCE WITH O.P.S.S. 407, AND 410.
- ALL CATCHBASINS TO BE BACKFILLED WITH MIN. 0.3m HORIZ. THICKNESS OF GRANULAR "A".
- ALL CATCHBASINS SHALL BE PRECAST 600X600 C/W 600mm SUMP AS PER OPSS 705.010.
- ALL CATCHBASINS ALONG ROADWAY TO HAVE OPSS 400.020 FRAME & COVERS. ALL CATCHBASINS IN GRASS AREA AND PARKING LOT TO HAVE OPSS 400.070 FRAME & COVERS.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL COSTS AND COORDINATION FOR ALL INSPECTION AND TESTING.

**NOTES: ROADWAY SURFACES BY PULVERIZING**

RESTORING ROADWAY SURFACES BY PULVERIZING TO THE SPECIFIED REQUIREMENTS SHALL CONSIST OF:

- THE PULVERIZING OF EXISTING ROADWAY TO A TOTAL DEPTH OF 100MM CONSISTING OF 50MM ASPHALT (ESTIMATED) AND 50MM OF GRANULAR A BASE.
- MAXIMUM PARTICLE SIZE AFTER PULVERIZING AS PER OPSS 333.07.01 SPECIFICATION REQUIREMENTS - 100% PASSING 50 MM AND 95% PASSING 37.5 MM.
- RESTORING OR RESHAPING THE SURFACE UTILIZING SUITABLE MATERIAL OBTAINED FROM THE PULVERIZATION PROCESS (A) AND, WHERE DIRECTED BY THE NRC DEPARTMENTAL REPRESENTATIVE, UTILIZING IMPORTED MATERIAL. IMPORTED MATERIALS SHALL CONSIST OF OPSS GRANULAR A OR OTHER HIGH-QUALITY GRANULAR MATERIAL APPROVED BY THE NRC DEPARTMENTAL REPRESENTATIVE.
- THE COMPACTING OF THE MATERIALS ACCORDING TO OPSS 501.
- CHECKING THE ACCURACY WITH THE TEMPLATES SPECIFIED IN OPSS SUBSECTION 301.06.01, AND.
- MAINTENANCE OF THE SURFACES TO THE TOLERANCES IN GRADE AND CROSS SECTION AND TO THE SPECIFIED DENSITY UNTIL THE SURFACE IS PAVED.

EXCESS MATERIALS RESULTING FROM THE ROAD RESTORATION OPERATIONS SHALL BE ACCOMMODATED WITHIN THE WORK SITE BY SPREADING, BLADING, OR AS DIRECTED BY THE NRC DEPARTMENTAL REPRESENTATIVE.

TIE-INS TO ROADWAYS, PARKING AREAS AND PATHS SHALL BE GRADED TO PROVIDE A 10M TRANSITION AND TO AVOID DEPRESSIONS OR PONDING OF WATER ON THE FINISHED PAVED SURFACE.

THE CONTRACTOR SHALL MAINTAIN THE PULVERIZED SURFACES TO THE TOLERANCES IN GRADE, CROSS SECTION, AND TO THE REQUIRED DENSITY, FOR DAILY TRAFFIC AND UNTIL THE SURFACE IS PAVED. REQUIRED DENSITY SHALL BE A MINIMUM OF 95% OF THE TARGET DENSITY AND SHALL BE CONFIRMED BY THE CONTRACTOR WHEN REQUESTED BY THE NRC DEPARTMENTAL REPRESENTATIVE IN ACCORDANCE WITH OPSS 501. IF REQUIRED, PART OR ALL OF THE PULVERIZED SURFACE SHALL BE RE-PULVERIZED, RE-GRADED, AND RE-COMPACTED AT THE DISCRETION OF THE NRC DEPARTMENTAL REPRESENTATIVE. THERE SHALL BE NO EXTRA COMPENSATION FROM THE OWNER SHOULD ADDITIONAL WORK BE REQUIRED TO MAINTAIN OR REPAIR AREAS PRIOR TO PAVING.

**NOTES: EARTH EXCAVATION, REMOVALS, WORK AROUND EXISTING UTILITIES**

- THE CONTRACTOR WILL BE REQUIRED TO WORK AROUND UNDERGROUND UTILITIES, AND WHEN CONSTRUCTION OPERATIONS ARE LIKELY TO DAMAGE UTILITIES, THE CONTRACTOR WILL BE REQUIRED TO ALTER HIS METHOD OF CONSTRUCTION AS DIRECTED BY THE NRC DEPARTMENT REPRESENTATIVE OR UTILITY COMPANY IN ORDER TO AVOID ANY DAMAGE.
- THE CONTRACTOR IS REQUIRED TO PROTECT THE EXISTING UTILITIES DURING THE CONSTRUCTION. NO ADDITIONAL PAYMENT WILL BE DONE FOR THE INSTALLATION OF THE SEWERS AND WATERMANS BELOW, CROSSING OR ALONG THE EXISTING UTILITIES SHOWN ON THE CONSTRUCTION DRAWINGS.

**NOTES: VEHICULAR AND PEDESTRIAN TRAFFIC CONTROL MEASURES**

- CONTRACTOR TO OBTAIN APPROVAL FOR HIS/HER TRAFFIC CONTROL PLAN (TCP) PRIOR TO COMMENCEMENT OF THE CONSTRUCTION.
- CONTRACTOR TO SUPPLY, INSTALL AND MAINTAIN ALL CONSTRUCTION AND TEMPORARY TRAFFIC SIGNS
- DURING THE CONSTRUCTION PERIOD, THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING AND MAINTAINING TEMPORARY BILINGUAL TRAFFIC SIGNAGE, INCLUDING TRAFFIC SIGNS, TRAFFIC MARKINGS AND TEMPORARY TRAFFIC LIGHTS, AND FLAGMEN, AS REQUIRED BY THE NRC.

**NOTES: STEEL INTERLOCKING PEDESTRIAN BARRIERS**

- SHALL BE APPROXIMATELY 1.8 METERS IN HEIGHT AND MANUFACTURED OF GALVANIZED STEEL.
- CONTRACTOR TO PROVIDE 80 LINEAR METERS OF FENCE INCLUSIVE OF ACTIONS TO SUPPLY, PLACE, MAINTAIN, FINAL REMOVAL AND THE RELOCATION OF STEEL INTERLOCKING PEDESTRIAN BARRIERS DURING THE PROJECT PERIOD.

**NOTES: ASPHALT SIDEWALK, MEDIANS, BOULEVARDS AND ISLANDS**

- 100mm GRANULAR 'A' AS BEDDING MATERIAL FOR ASPHALT SIDEWALKS, MEDIANS AND ISLANDS TO BE PLACED UNLESS SPECIFIED OTHERWISE IN THE CONTRACT.

**NOTES: EQUIPMENT RENTAL**

- OPSS 127

**NOTES: PRE-CONSTRUCTION INSPECTION**

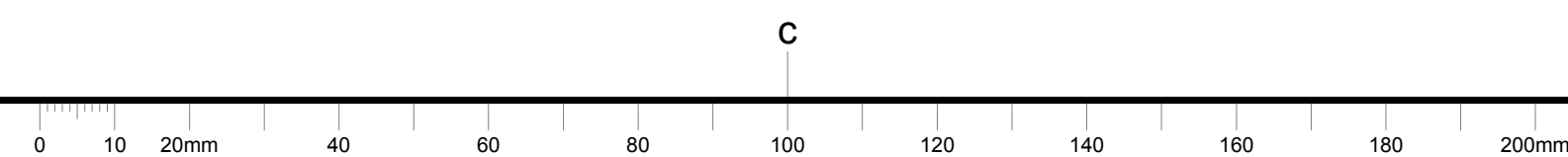
- THE CONTRACTOR ACKNOWLEDGES THAT THERE ARE EXISTING BUILDINGS AND STRUCTURES IN THE VICINITY OF THE WORK AREA, WHICH MAY BE AFFECTED BY THE CONSTRUCTION WORKS AND THAT THE CONTRACTOR IS TO COMPLETE THE PRE-CONSTRUCTION INSPECTION OF BUILDINGS AND STRUCTURES, FOR BOTH INTERIOR AND EXTERIOR CONDITIONS.
- THE CONTRACTOR IS TO SUPPLY THE SERVICES OF A REPUTABLE 3RD PARTY FIRM EXPERIENCED IN PRE-CONSTRUCTION INSPECTIONS.
- AS A MINIMUM, THE PRE-CONSTRUCTION INSPECTION SHALL BE DONE ON ALL STRUCTURES WITHIN 30m OF THE WORK ZONE.
- FOR EACH PROPERTY INSPECTED, A SEPARATE BUILDING/STRUCTURE PRE-CONSTRUCTION REPORT SHALL BE PREPARED, DATED AND SIGNED BY THE FIRM UNDERTAKING THE INSPECTION. THESE REPORTS ARE CONFIDENTIAL AND SHALL NOT BE SHARED WITH THE CONTRACTOR.
- THE PRE-CONSTRUCTION INSPECTION SHALL INDICATE IF SIGNS OF A BUILDING OR STRUCTURE SETTLEMENT ARE PRESENT, INCLUDE PHOTOGRAPHS OF ALL SIDES OF THE BUILDING EXTERIOR. A REPRESENTATIVE SAMPLING (DESCRIPTION AND PHOTOGRAPHS) OF VISIBLE CRACKS OR SETTLEMENT FROM BOTH THE INTERIOR AND EXTERIOR OF THE BUILDING, AND A REPRESENTATIVE SAMPLING (DESCRIPTION AND PHOTOGRAPHS) OF STAINING OR REPAIRS VISIBLE AT THE TIME OF INSPECTION.
- THE PRE-CONSTRUCTION INSPECTION SHALL IDENTIFY ANY CONCERNS REGARDING SENSITIVE EQUIPMENT CONTAINED WITHIN THE BUILDINGS WHICH SHOULD BE TAKEN INTO ACCOUNT DURING POTENTIAL ROCK REMOVAL AND/OR EXCAVATION OPERATIONS.
- THE PROJECT PRE-CONSTRUCTION INSPECTION REPORT SHALL INCLUDE:
  - OVERVIEW OF THE INSPECTION PROCESS AND THE EQUIPMENT USED;
  - PIPEDA COMPLIANCE CONFIRMATION
  - LISTING OF PROPERTIES FOR WHICH INSPECTIONS WERE PERFORMED INCLUDING THE DATES OF THE INSPECTIONS
  - LISTING OF PROPERTIES FOR WHICH INSPECTIONS WERE NOT PERFORMED AND THE REASON.

**NOTES: EROSION AND SEDIMENT CONTROL**

- SEDIMENT AND EROSION CONTROL MEASURES TO BE CONSTRUCTED AS PER OPSS 805.
- THE CONTRACTOR SHALL SUBMIT AN EROSION & SEDIMENT CONTROL PLAN. THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION AND CONSTRUCTION OF ALL SEDIMENT AND EROSION CONTROL MEASURES TO ENSURE THAT SEDIMENT DOES NOT MIGRATE FROM THE CONSTRUCTION SITE. THE CONTRACTOR SHALL IMPLEMENT BEST PRACTICES, TO PROVIDE FOR PROTECTION OF THE AREA DRAINAGE SYSTEM AND THE RECEIVING WATERCOURSES, DURING CONSTRUCTION ACTIVITIES. THIS INCLUDES:
  - LIMITING THE AMOUNT OF EXPOSED SOIL
  - INSTALLING SILT FENCES (PER OPSS 219.110) AT THE CONSTRUCTION LIMIT.
  - INSTALLING STRAW BALE FLOW CHECK DAM (PER OPSS 219.180) ALONG ROADSIDE DITCHES/SWALES AT UPSTREAM OF CATCHBASINS.
  - 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.
- IN ORDER TO AVOID POLLUTANTS FROM BEING DISCHARGED, THE CONTRACTOR MUST MINIMIZE THE GENERATION OF DUST THROUGH APPROPRIATE APPLICATION OF WATER OR OTHER DUST SUPPRESSION MATERIAL.
- THE CONTRACTOR'S SUBCONTRACTOR ARE REQUIRED TO COMPLY WITH THE APPROVED EROSION AND SEDIMENT CONTROL PLAN.
- CONTRACTOR TO CONFIRM LOCATION(S) AND ELEVATION(S) OF EXISTING SUMP PUMPS TO BE DISCHARGED INTO NEARBY DITCHES OR SWALES. THE NRC DEPARTMENTAL REPRESENTATIVE SHALL BE INFORMED IMMEDIATELY OF ANY ERRORS, DISCREPANCIES, CONFLICTS, OMISSIONS ETC THAT ARE FOUND.

**NOTES: REMOVAL**

- REMOVALS SHALL BE COMPLETED IN ACCORDANCE WITH OPSS 510.
- SEWER PIPES TO BE ABANDONED MUST BE CUT, FILLED WITH UNSHRINKABLE BACKFILL CONFORMING TO OPSS 1359, AND CAPPED ALL IN ACCORDANCE WITH OPSS 510.
- EXISTING PAVERS TO BE REMOVED, PROTECTED AND STORED ON SITE UNTIL REINSTATEMENTS.
- EXISTING ASPHALT SHALL BE A MILLED 500mm WIDE STEP JOINT, TO A DEPTH OF 50mm(MIN.) AT ALL TIE IN LOCATIONS.
- FIELD VERIFY FOR ANY POTENTIAL CONFLICTS INCLUDING ALL EXISTING UTILITY POLE LOCATIONS AND OVERHEAD CABLES BEFORE COMMENCING CONSTRUCTION. ANY DISCREPANCIES, INTERPRETATIONS, CHANGES AND/OR ADDITIONS TO THESE DRAWINGS MUST BE BROUGHT TO THE ATTENTION OF THE NRC DEPARTMENTAL REPRESENTATIVE WHEN OBSERVED.
- ALL REGULATORY SIGNS WITHIN THE CONSTRUCTION LIMIT SHALL BE REMOVED AND RE-INSTALLED BY THE CONTRACTOR UPON COMPLETION OF PAVING WORKS.
- LIMIT OF REMOVAL FOR DRIVEWAYS AND WALKWAYS TO BE CONFIRMED WITH THE NRC DEPARTMENTAL REPRESENTATIVE.

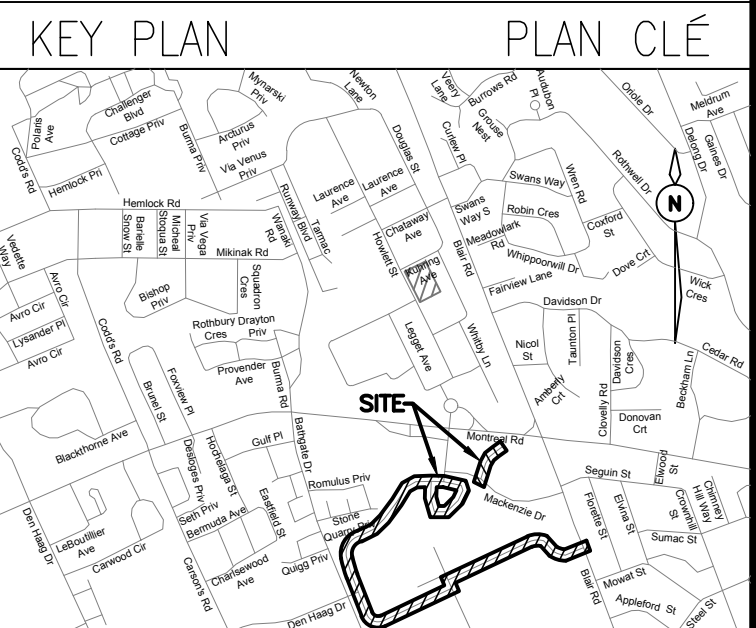


**GENERAL NOTES**

- CONTRACTOR TO VERIFY ALL DIMENSIONS AND CLEARANCES ON SITE PRIOR TO CONSTRUCTION AND REPORT ANY DISCREPANCIES AND/OR OMISSIONS TO DEPARTMENTAL REPRESENTATIVE.
- CONTRACTORS MUST VISIT THE SITE AND FULLY FAMILIARIZE THEMSELVES WITH THE SCOPE OF THE WORK PRIOR TO PROJECT COMMENCEMENT.
- ALL TRADES TO COORDINATE WORK ON SITE, WITH APPROVAL OF DEPARTMENTAL REPRESENTATIVE TO AVOID ANY CONFLICTS AND/OR INTERFERENCE.
- ANY AND ALL REQUIRED SHUTDOWNS SHALL BE COORDINATED WITH DEPARTMENTAL REPRESENTATIVE.
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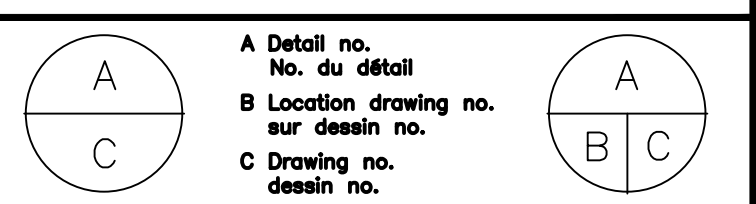
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No.	Date	Revision	By:
3	16-08-2019	ISSUED FOR TENDER	KW
2	19-07-2019	ISSUED FOR 90% DESIGN SUBMISSION	KW
1	31-05-2019	ISSUED FOR 66% DESIGN REVIEW	KW

Date Printed	Date Imprime

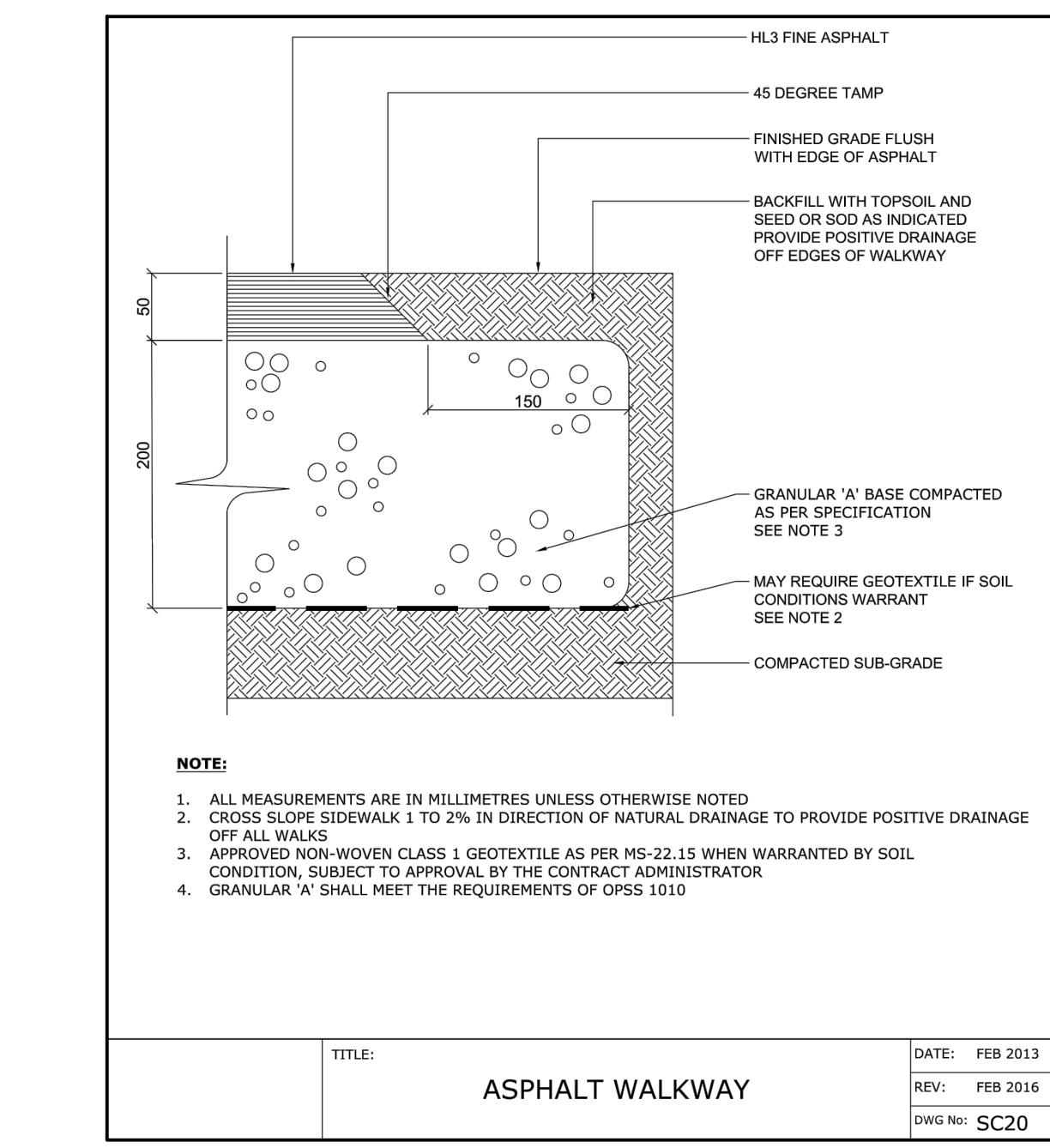
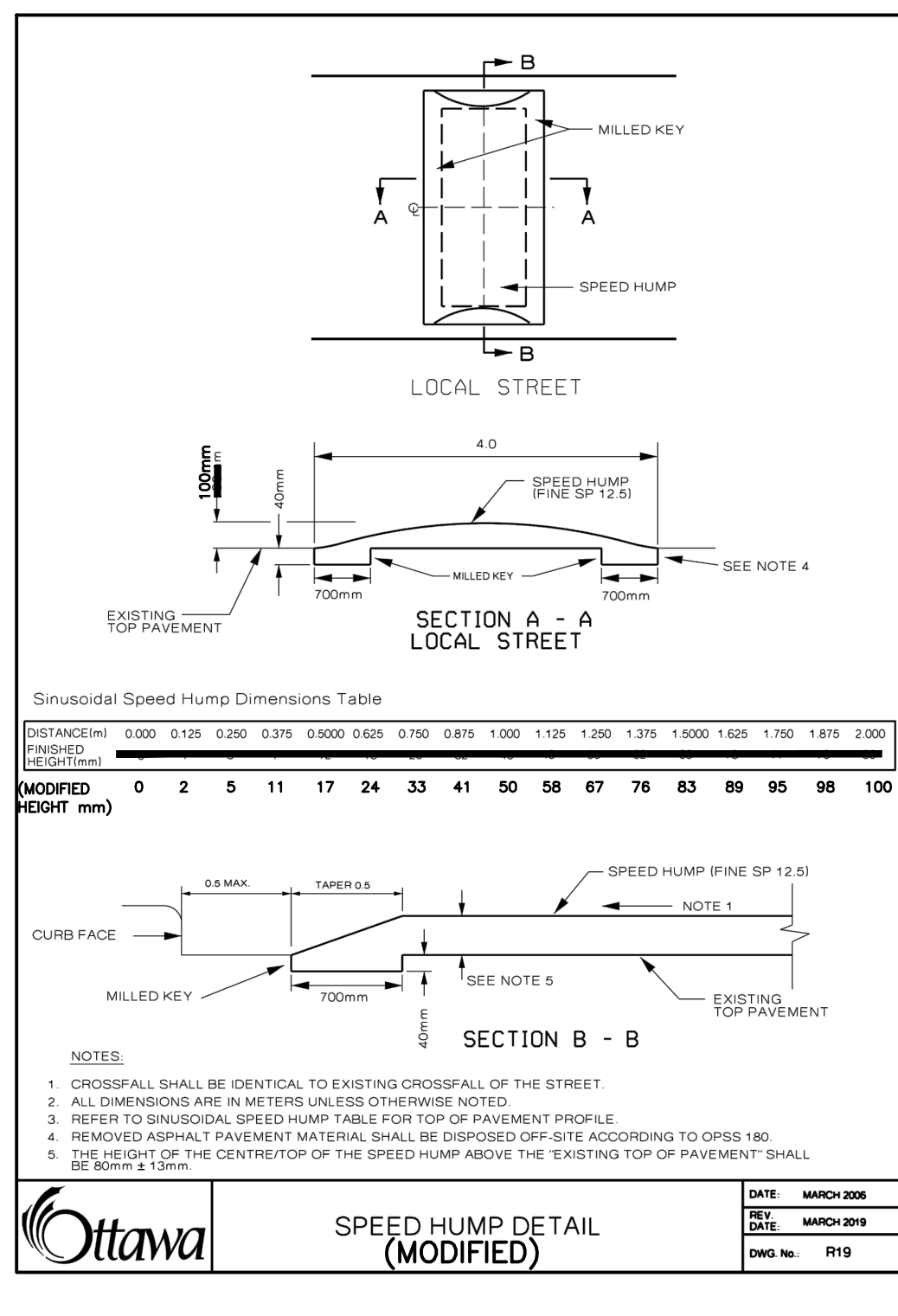
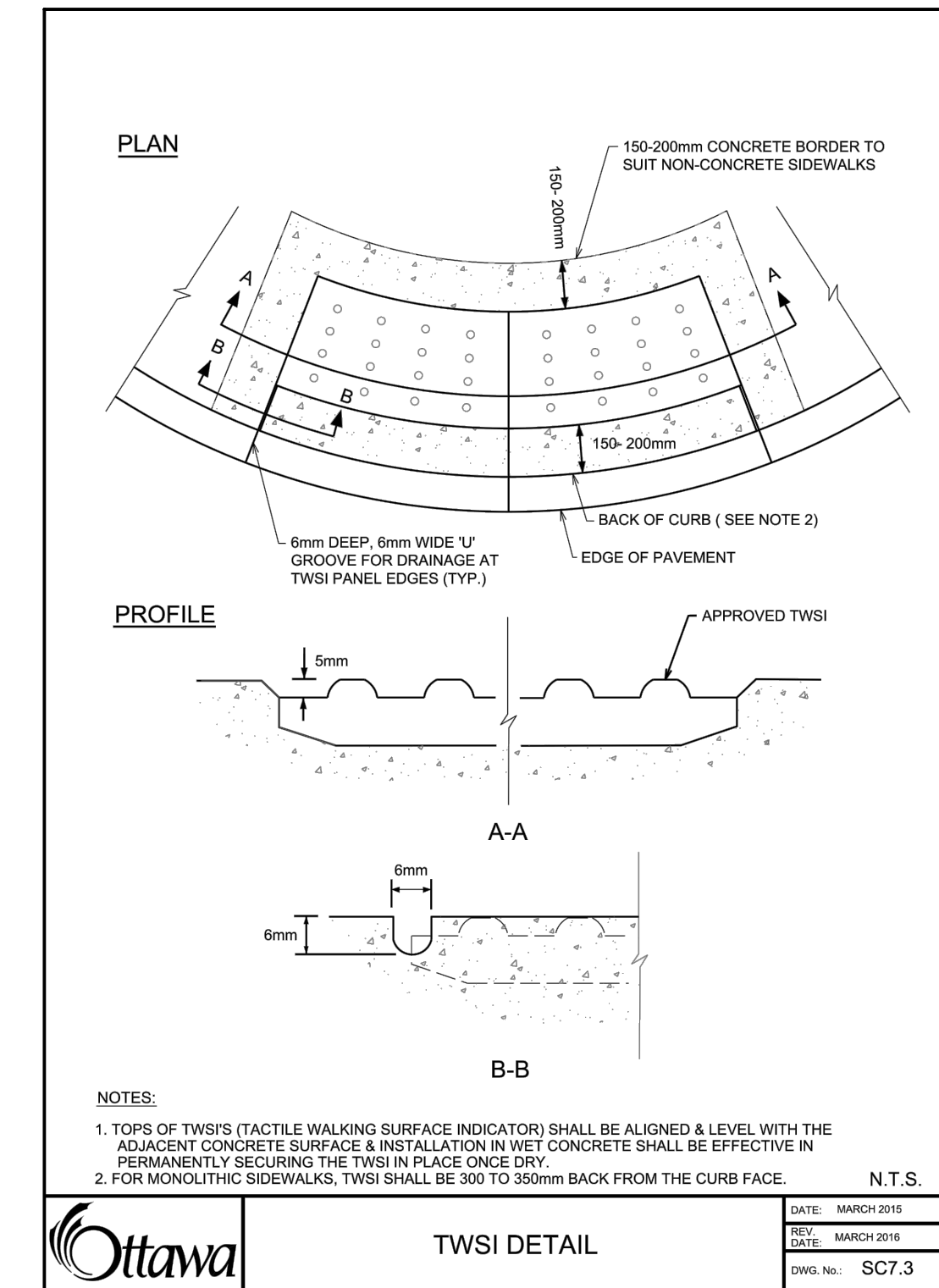
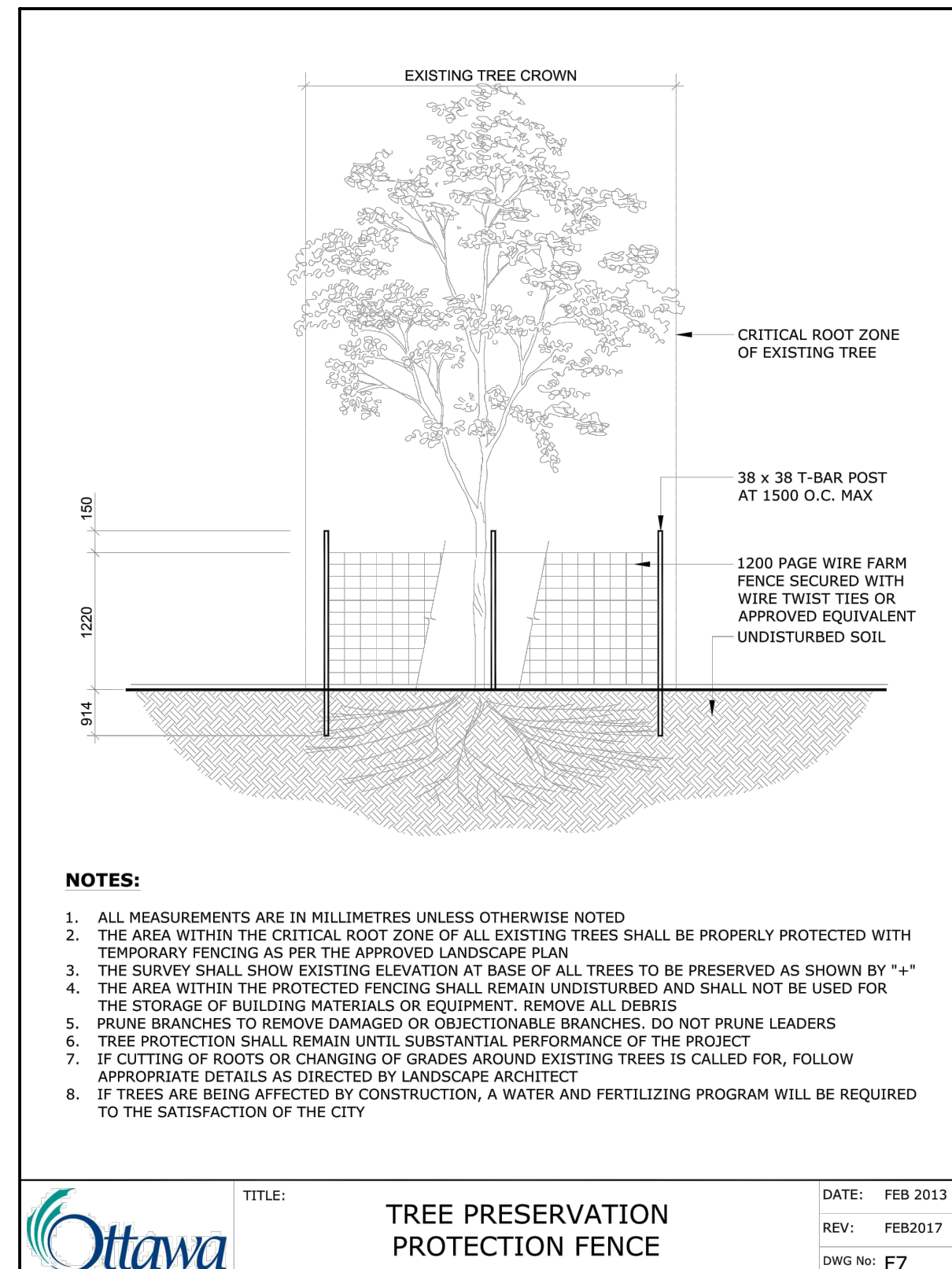
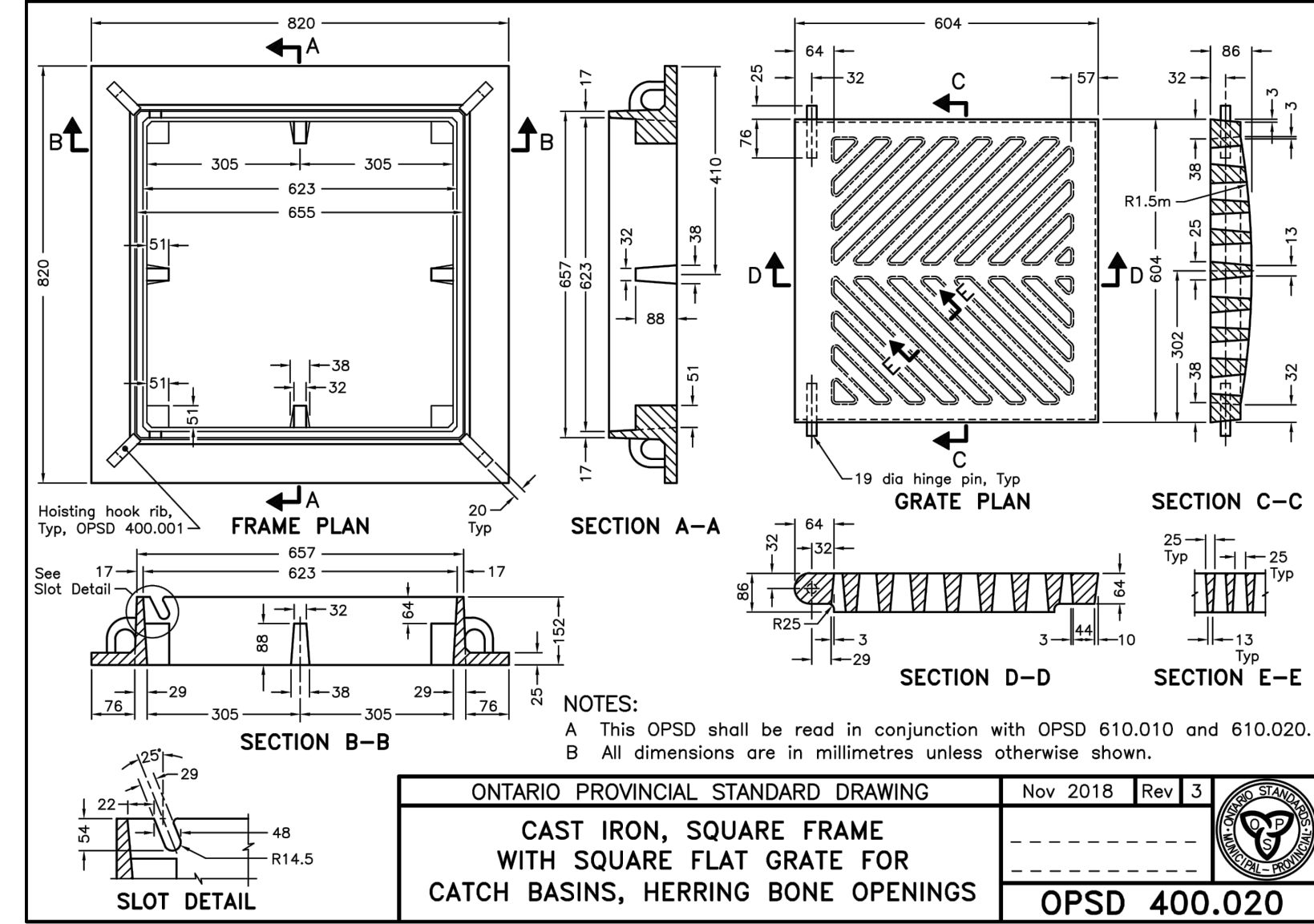
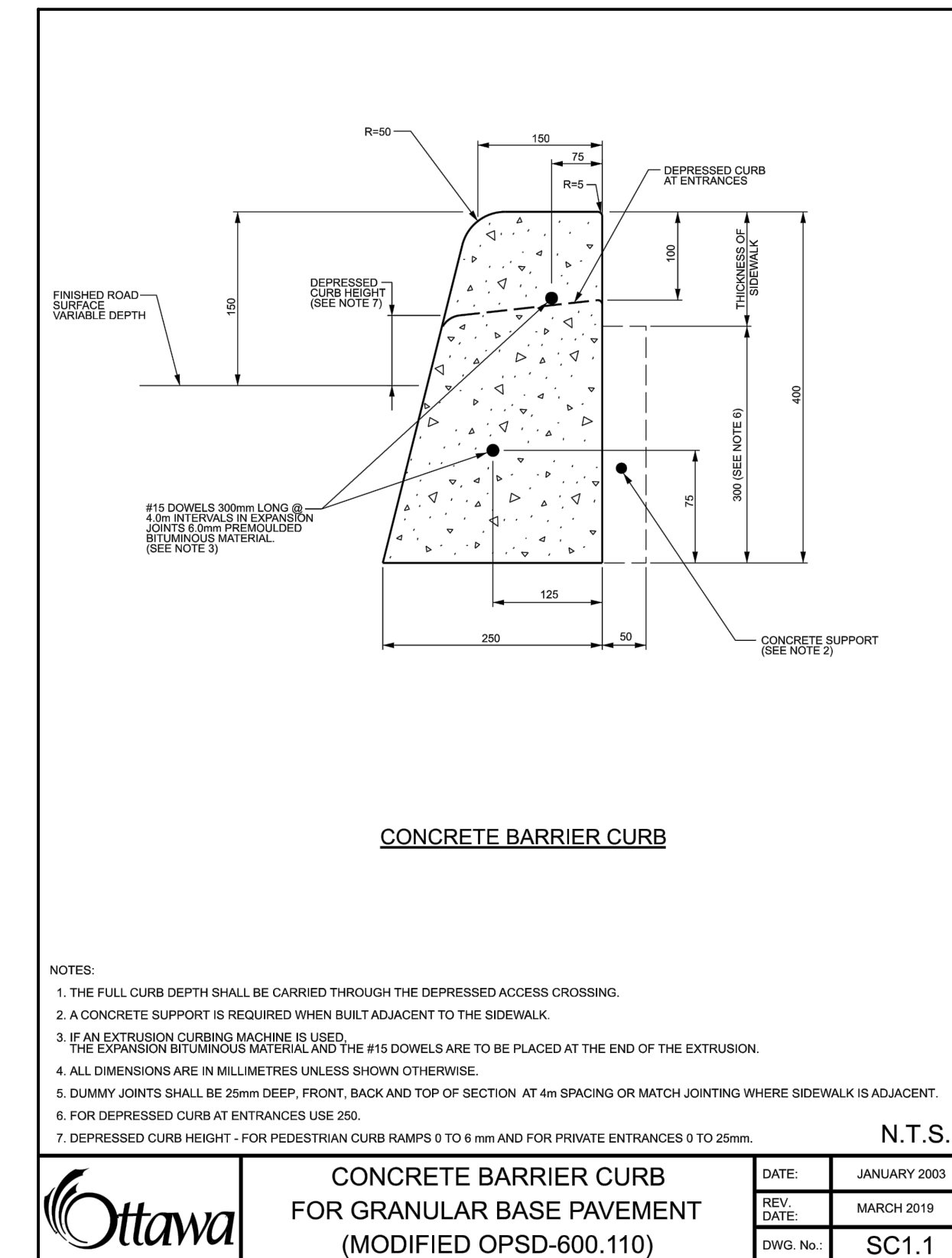
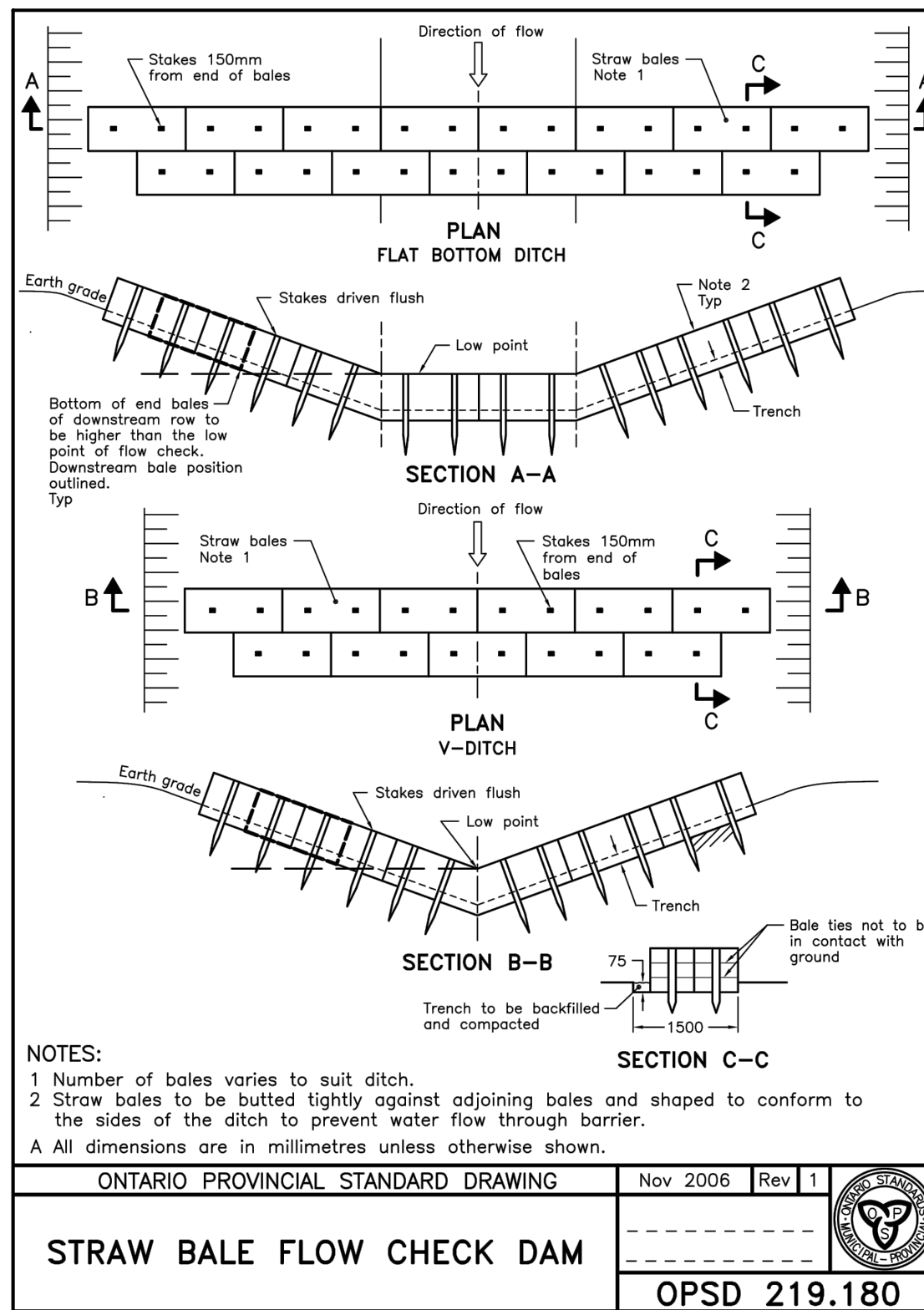
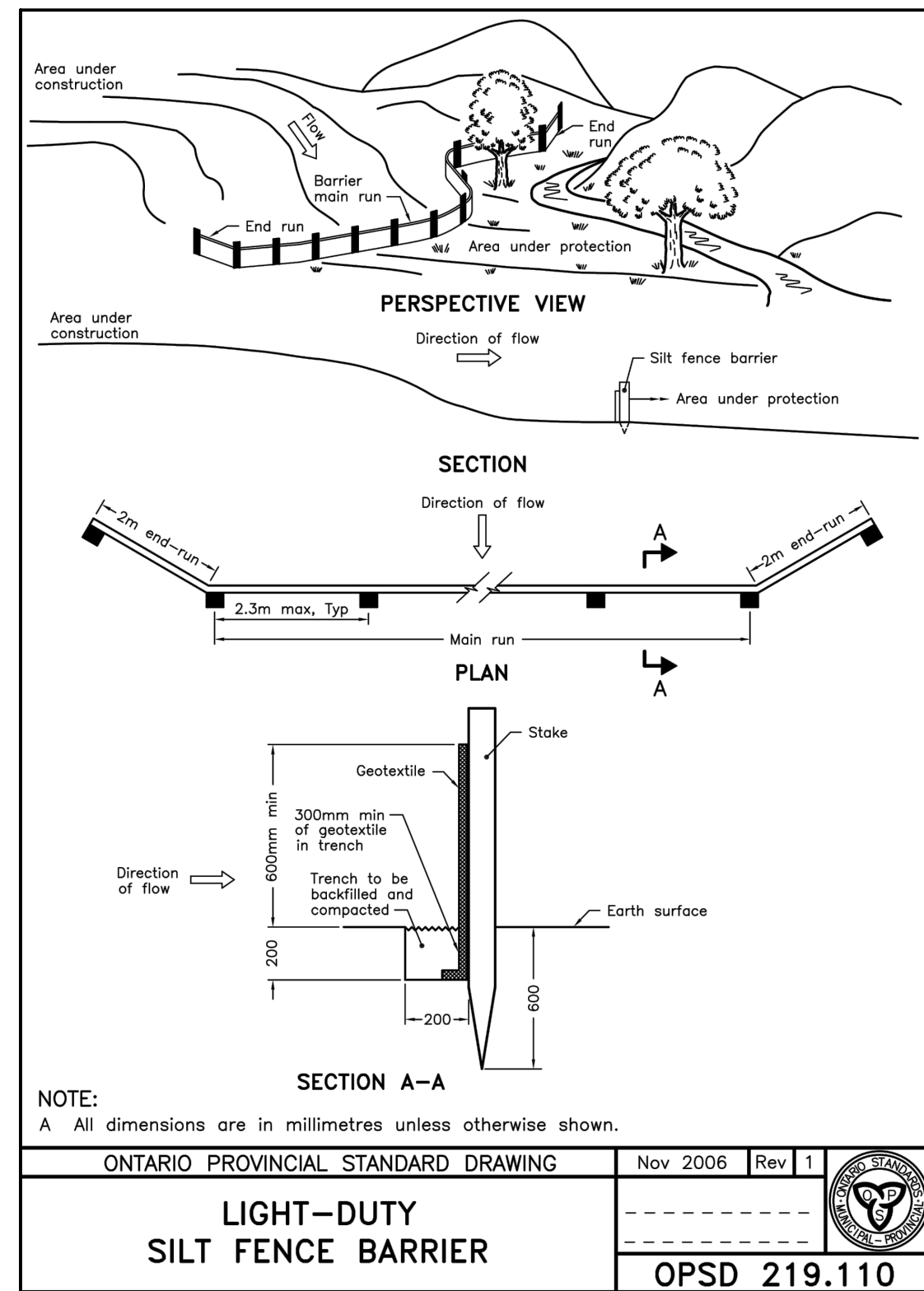
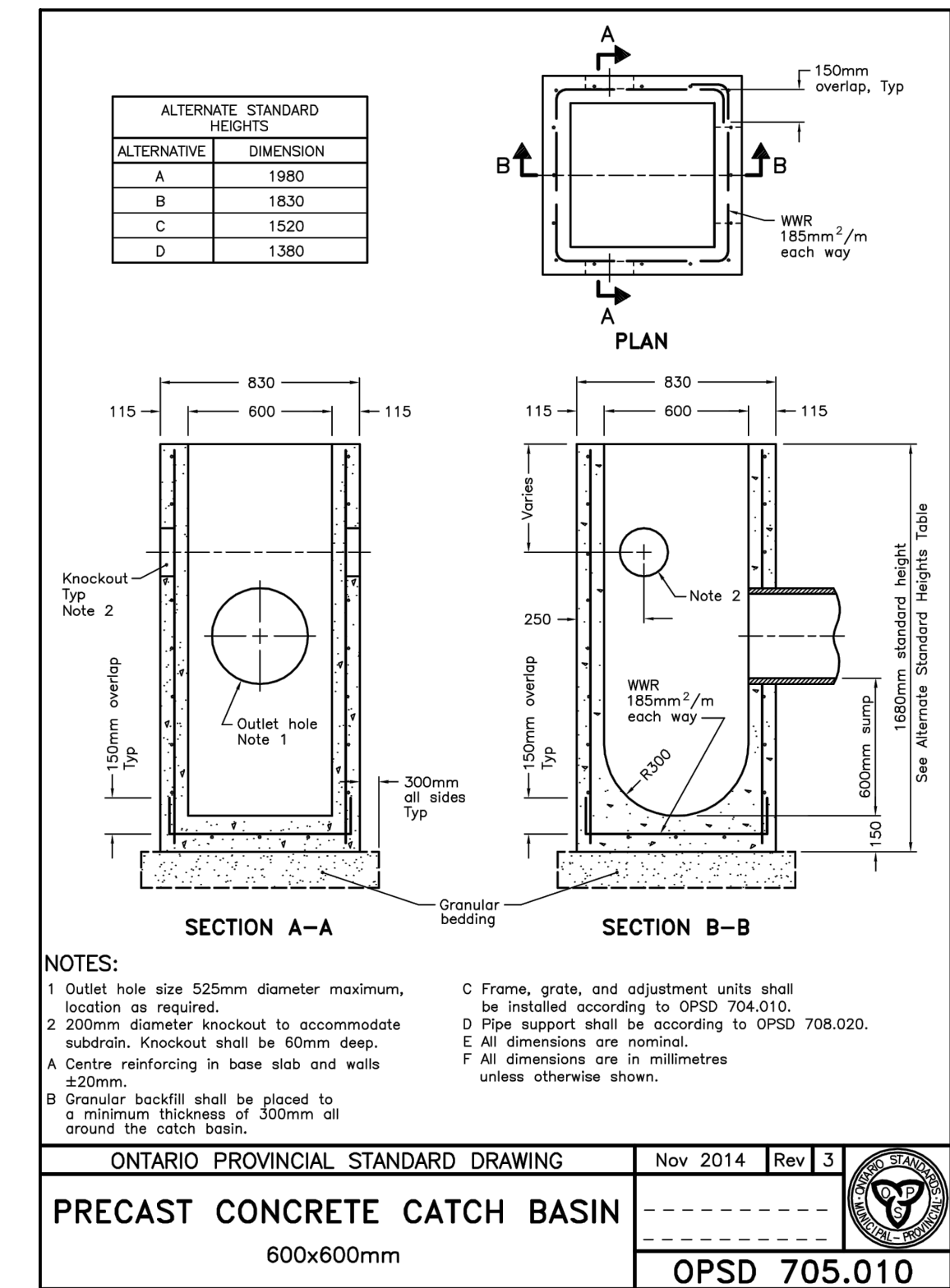
- Verify all dimensions and site conditions and be responsible for same.
- Vérifier toutes les dimensions et l'état des lieux et en assumer la responsabilité



project / projet  
ROAD, CURB & SIDEWALK REHABILITATION  
SOUTH SIDE MONTREAL ROAD CAMPUS  
NATIONAL RESEARCH COUNCIL CANADA

MONTREAL ROAD CAMPUS  
drawing / dessin  
LEGEND, NOTES AND DETAILS

designed	conçu	date	scale	étchelle
JX		APRIL 2019		
drawn	dessiné	sheet	1 of/de	feuille
MH		1	18	
checked	vérifié	approved	W.O.no.	D.T.no.
KW/JX				
approved	approuvé	dwg.no.	dessin no.	
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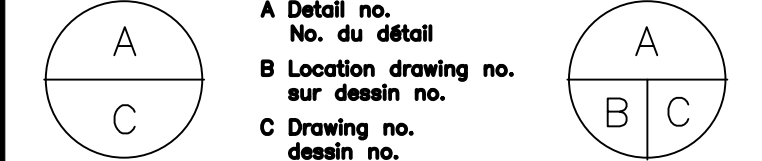
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project / projet

**CURB & SIDEWALK REHABILITATION SOUTH SIDE MONTREAL ROAD CAMPUS NATIONAL RESEARCH COUNCIL CANADA**

**MONTREAL ROAD CAMPUS**

drawing / dessin

DESIGNED: JX, CONGRU: \_\_\_\_\_, DATE: APRIL 2019, ÉCHELLE: 1:250

DRAWN: MH, DESSINÉ: \_\_\_\_\_, SHEET: 2 of 28, FEUILLE: 18

CHECKED: KW/JX, VÉRIFIÉ: \_\_\_\_\_, APPROUVÉ: W.O.no., D.T.no.

APPROVED: KW, DATE: \_\_\_\_\_

DWG. NO.: 5710-C102



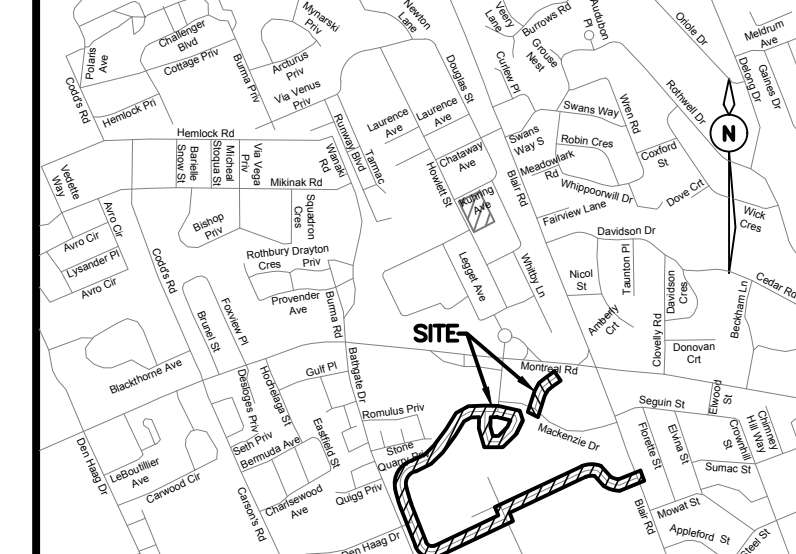


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KEY PLAN PLAN CLÉ



No.	Date	Revision	By:
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2	19-07-2019	ISSUED FOR 90% DESIGN SUBMISSION	KW
1	31-05-2019	ISSUED FOR 66% DESIGN REVIEW	KW

Date Printed	Date Imprimée

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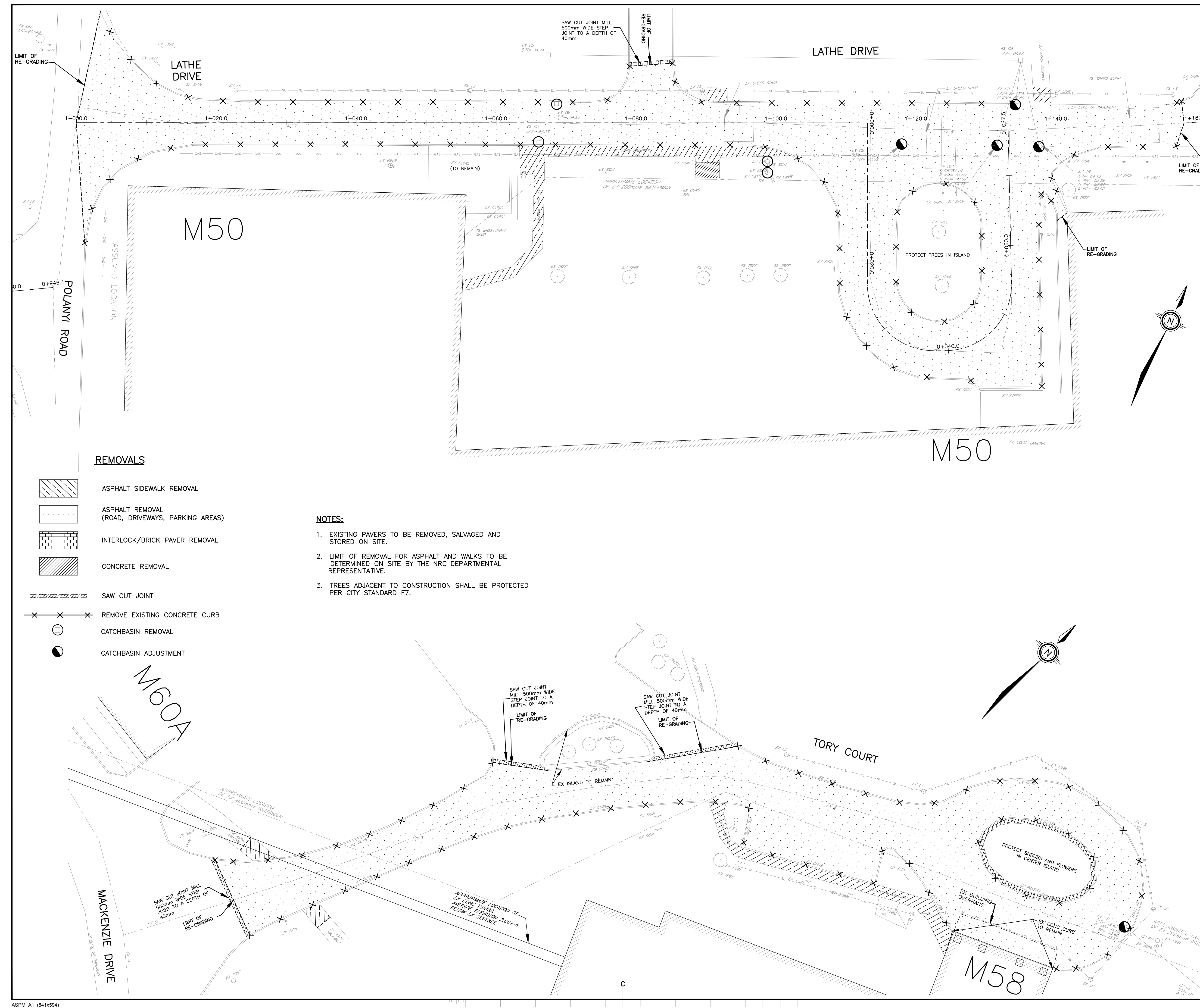
A	A Detail no. / No. du détail	A
B	B Location drawing no. / sur dessin no.	B
C	C Drawing no. / dessin no.	C

ROAD, CURB & SIDEWALK REHABILITATION  
 SOUTH SIDE MONTREAL ROAD CAMPUS  
 NATIONAL RESEARCH COUNCIL CANADA

MONTREAL ROAD CAMPUS

REMOVALS AND ADJUSTMENTS

designed	conçu	date	date
JX		APRIL 2019	
drawn	dessiné	scale	échelle
MH		1:250	
checked	vérifié	sheet	of/de
KW/JX		3	18
approved	approuvé	W.O.no.	D.T.no.
KW		-	-
dwg.no.			dessin no.
5710-C103			



REMOVALS

- ASPHALT SIDEWALK REMOVAL
- ASPHALT REMOVAL (ROAD, DRIVEWAYS, PARKING AREAS)
- INTERLOCK/BRICK PAVER REMOVAL
- CONCRETE REMOVAL
- SAW CUT JOINT
- REMOVE EXISTING CONCRETE CURB
- CATCHBASIN REMOVAL
- CATCHBASIN ADJUSTMENT

NOTES:

- EXISTING PAVERS TO BE REMOVED, SALVAGED AND STORED ON SITE.
- LIMIT OF REMOVAL FOR ASPHALT AND WALKS TO BE DETERMINED ON SITE BY THE NRC DEPARTMENTAL REPRESENTATIVE.
- TREES ADJACENT TO CONSTRUCTION SHALL BE PROTECTED PER CITY STANDARD F7.

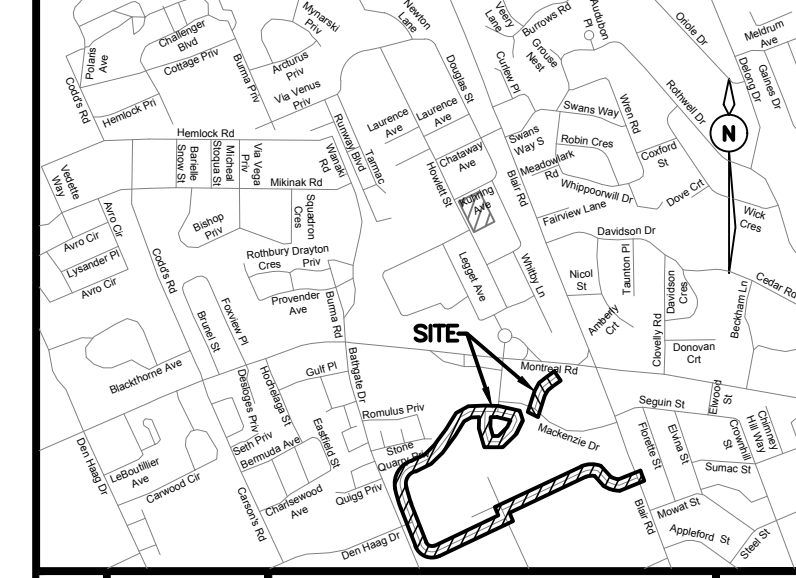


GENERAL NOTES

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**Ainley** GROUP  
 2724 Fenton Road  
 Ottawa, Ontario  
 K1T 3T7  
 Telephone: (613) 822-1052  
 Fax: (613) 822-1573

KEY PLAN / PLAN CLÉ



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

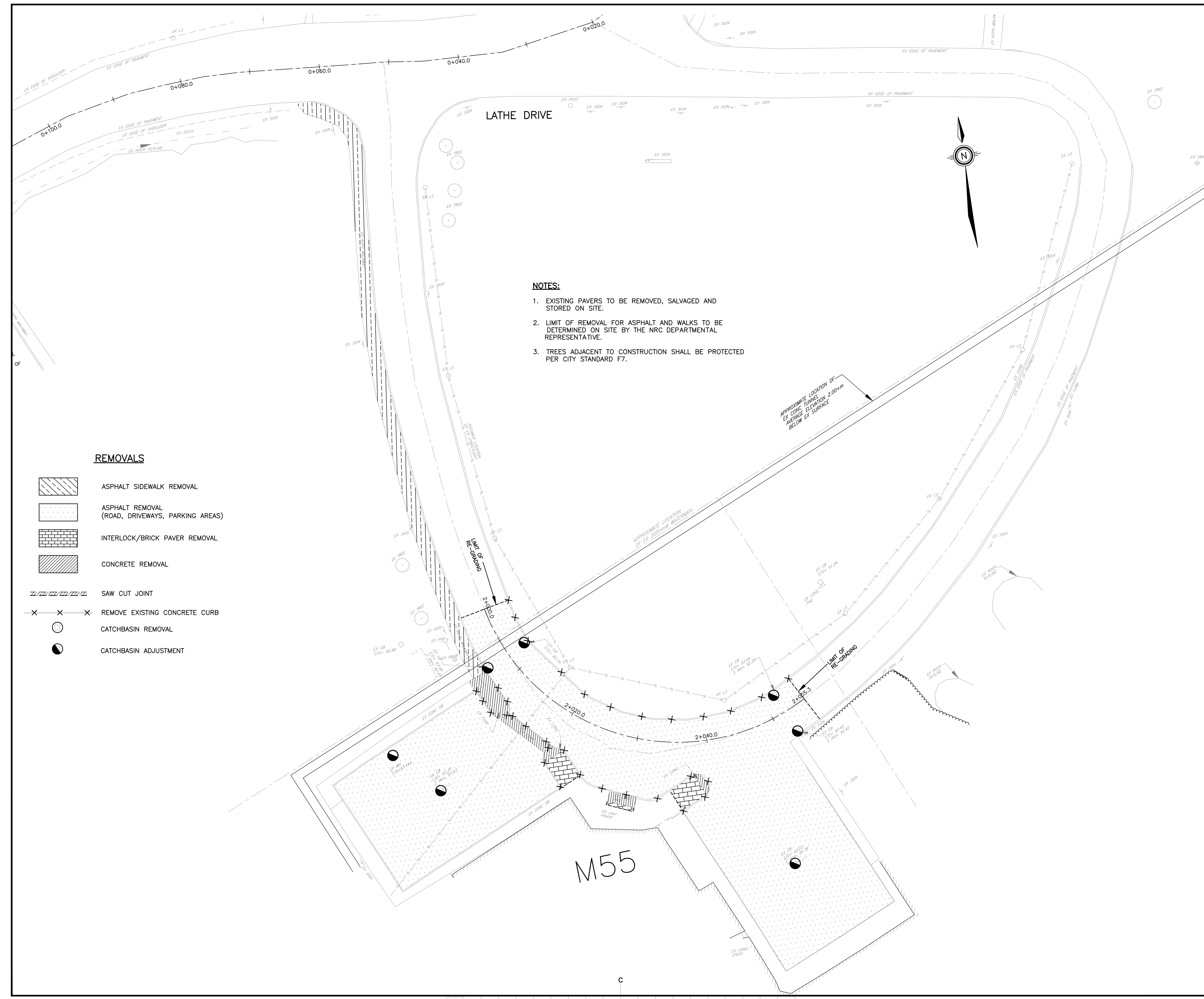
PROJECT / projet  
 ROAD, CURB & SIDEWALK REHABILITATION  
 SOUTH SIDE MONTREAL ROAD CAMPUS  
 NATIONAL RESEARCH COUNCIL CANADA

MONTREAL ROAD CAMPUS

DRAWING / dessin  
 REMOVALS AND ADJUSTMENTS

designed / conçu	JX	date / date	APRIL 2019
drawn / dessiné	MH	scale / échelle	1:250
checked / vérifié	KW/JX	sheet / feuille	4 of/de 18
approved / approuvé	KW	W.O.no. / D.T.no.	-

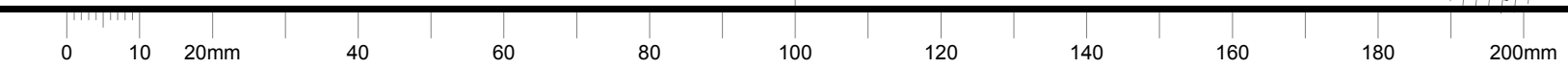
dwg.no. / dessin no.  
 5710-C104



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- ASPHALT REMOVAL (ROAD, DRIVEWAYS, PARKING AREAS)
- INTERLOCK/BRICK PAVER REMOVAL
- CONCRETE REMOVAL
- SAW CUT JOINT
- REMOVE EXISTING CONCRETE CURB
- CATCHBASIN REMOVAL
- CATCHBASIN ADJUSTMENT

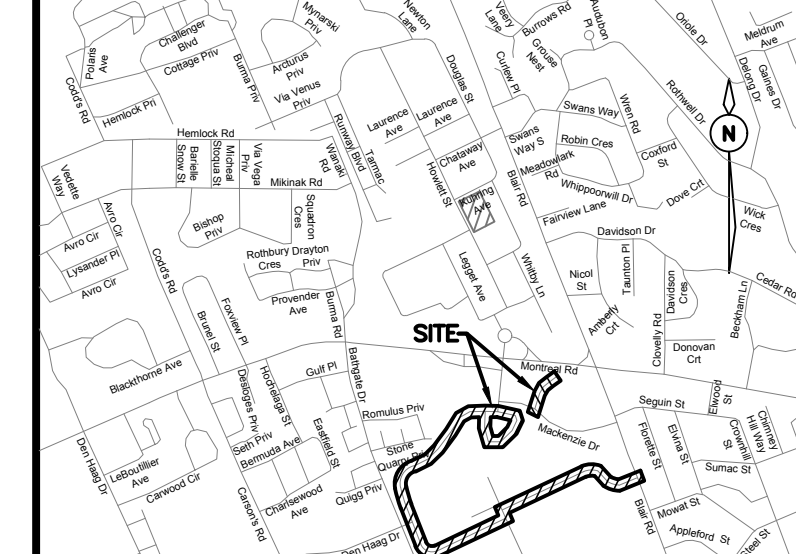


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PROJECT / projet  
 ROAD, CURB & SIDEWALK REHABILITATION  
 SOUTH SIDE MONTREAL ROAD CAMPUS  
 NATIONAL RESEARCH COUNCIL CANADA

MONTREAL ROAD CAMPUS

DRAWING / dessin  
 REMOVALS AND ADJUSTMENTS

DESIGNED / conçu	DATE / date
JX	APRIL 2019

DRAWN / dessiné	SCALE / échelle
MH	1:250

CHECKED / vérifié	SHEET / feuille
KW/JX	5 of/da 18

APPROVED / approuvé	W.O.NO. / D.T.NO.
KW	-

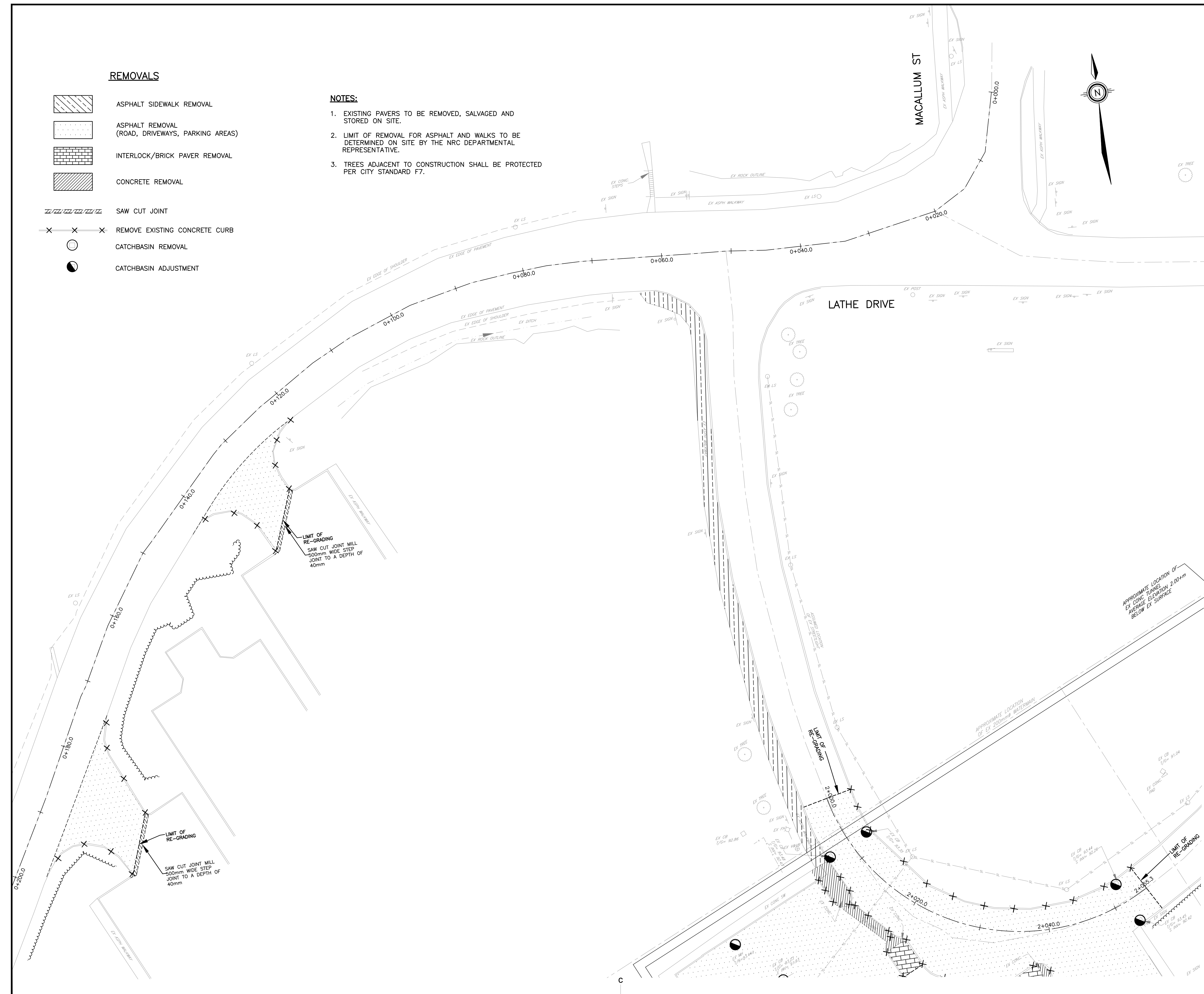
DWG. NO. / dessin no.	5710-C105
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REMOVALS

- ASPHALT SIDEWALK REMOVAL
- ASPHALT REMOVAL (ROAD, DRIVEWAYS, PARKING AREAS)
- INTERLOCK/BRICK PAVER REMOVAL
- CONCRETE REMOVAL
- SAW CUT JOINT
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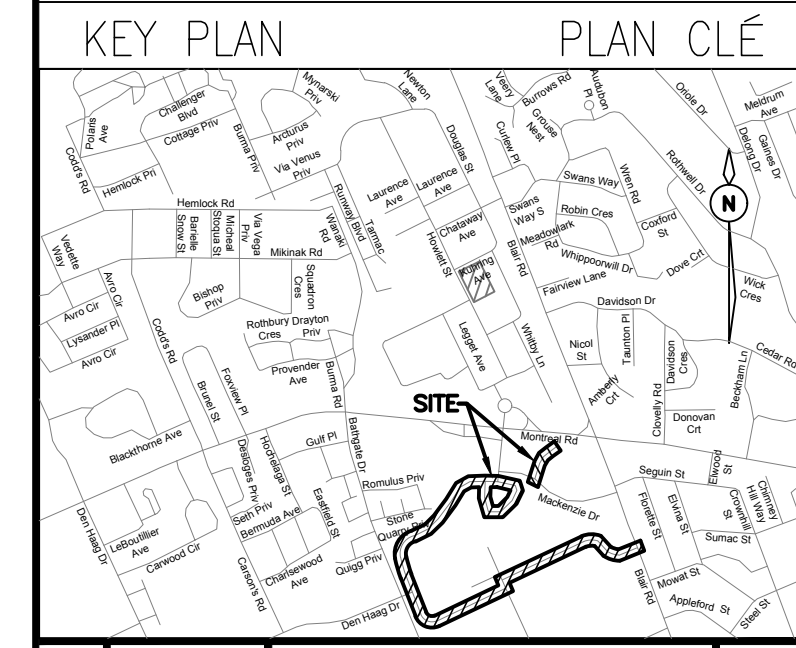




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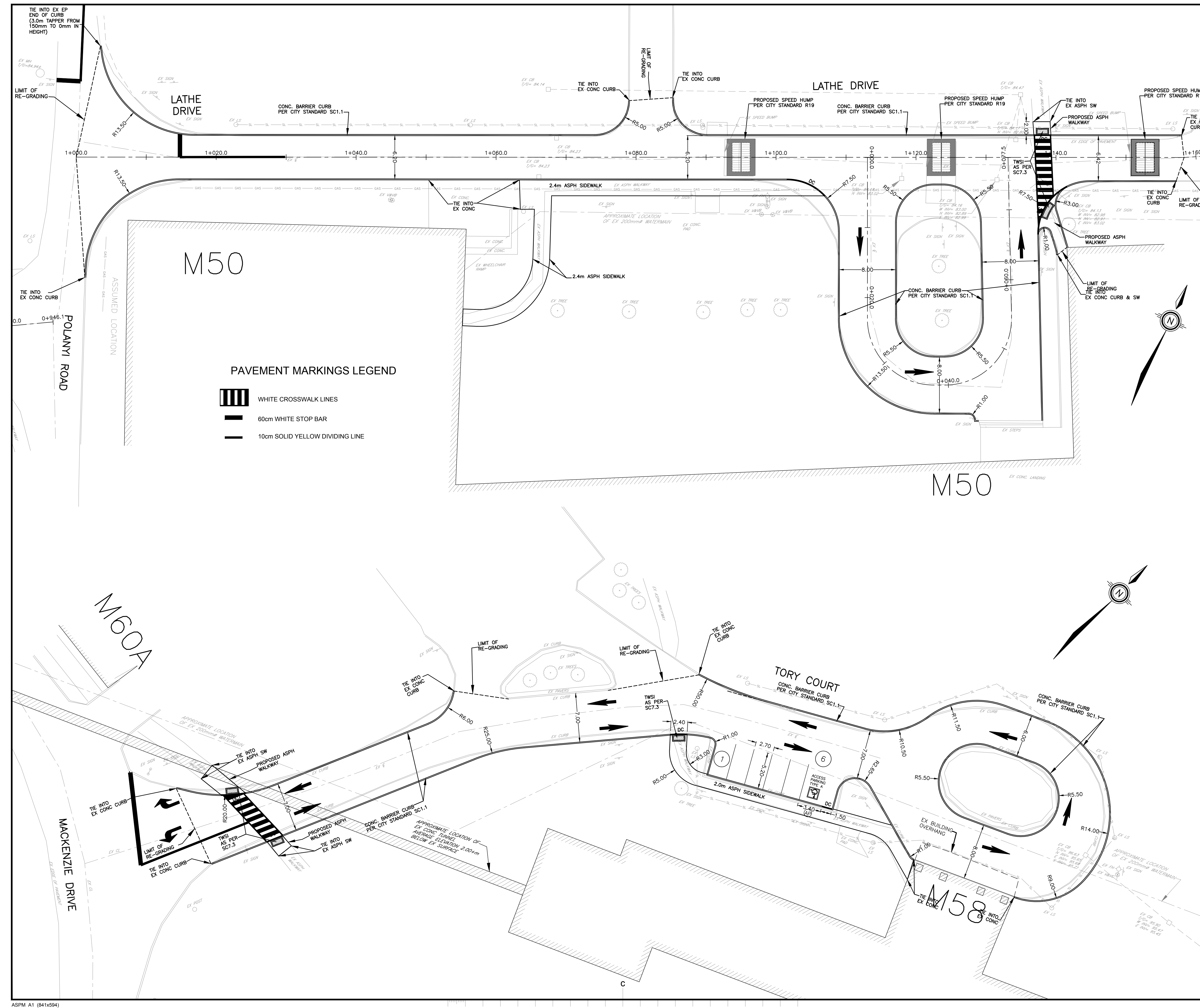
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A	A Detail no. / No. du détail	A
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project / projet  
 ROAD, CURB & SIDEWALK REHABILITATION  
 SOUTH SIDE MONTREAL ROAD CAMPUS  
 NATIONAL RESEARCH COUNCIL CANADA

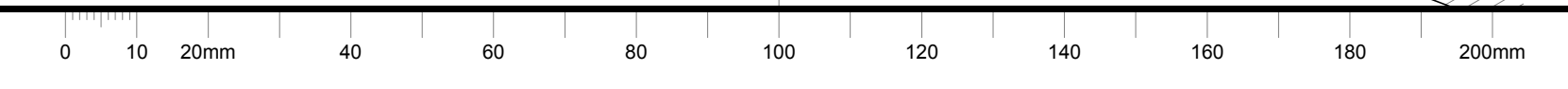
MONTREAL ROAD CAMPUS  
 drawing / dessin  
 GEOMETRY LAYOUT

designed	conçu	date	date
JX		APRIL 2019	
drawn	dessiné	scale	échelle
MH		1:250	
checked	vérifié	sheet	feuille
KW/JX		6 of/de 18	
approved	approuvé	W.O.no.	D.T.no.
KW		-	
dwg.no.			dessin no.
5710-C106			



**PAVEMENT MARKINGS LEGEND**

- WHITE CROSSWALK LINES
- 60cm WHITE STOP BAR
- 10cm SOLID YELLOW DIVIDING LINE

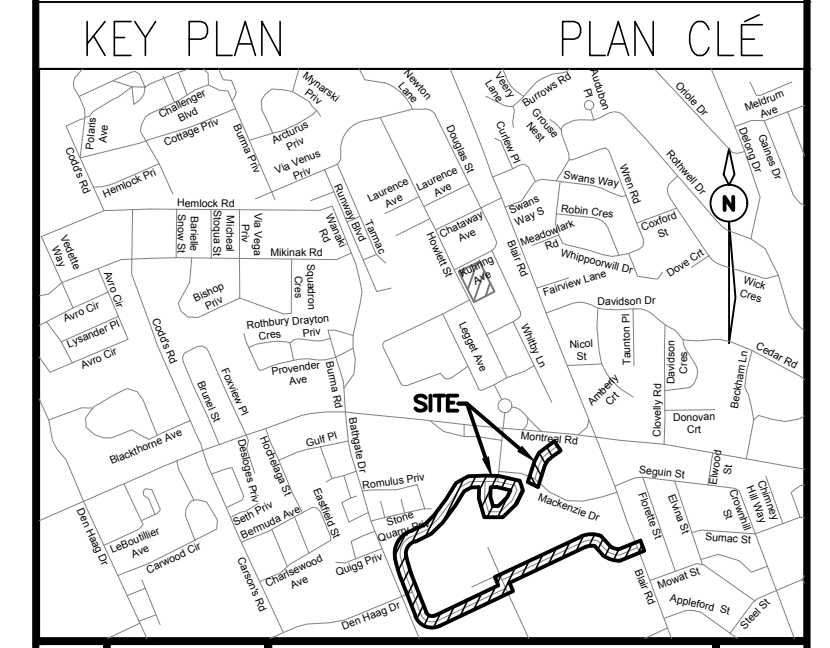




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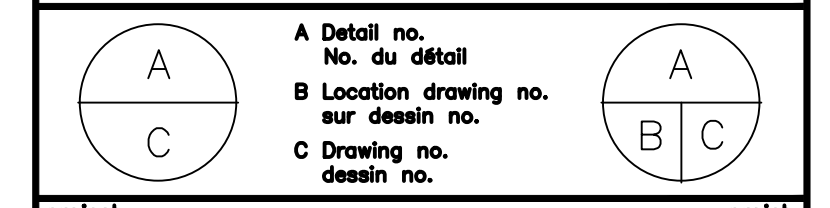
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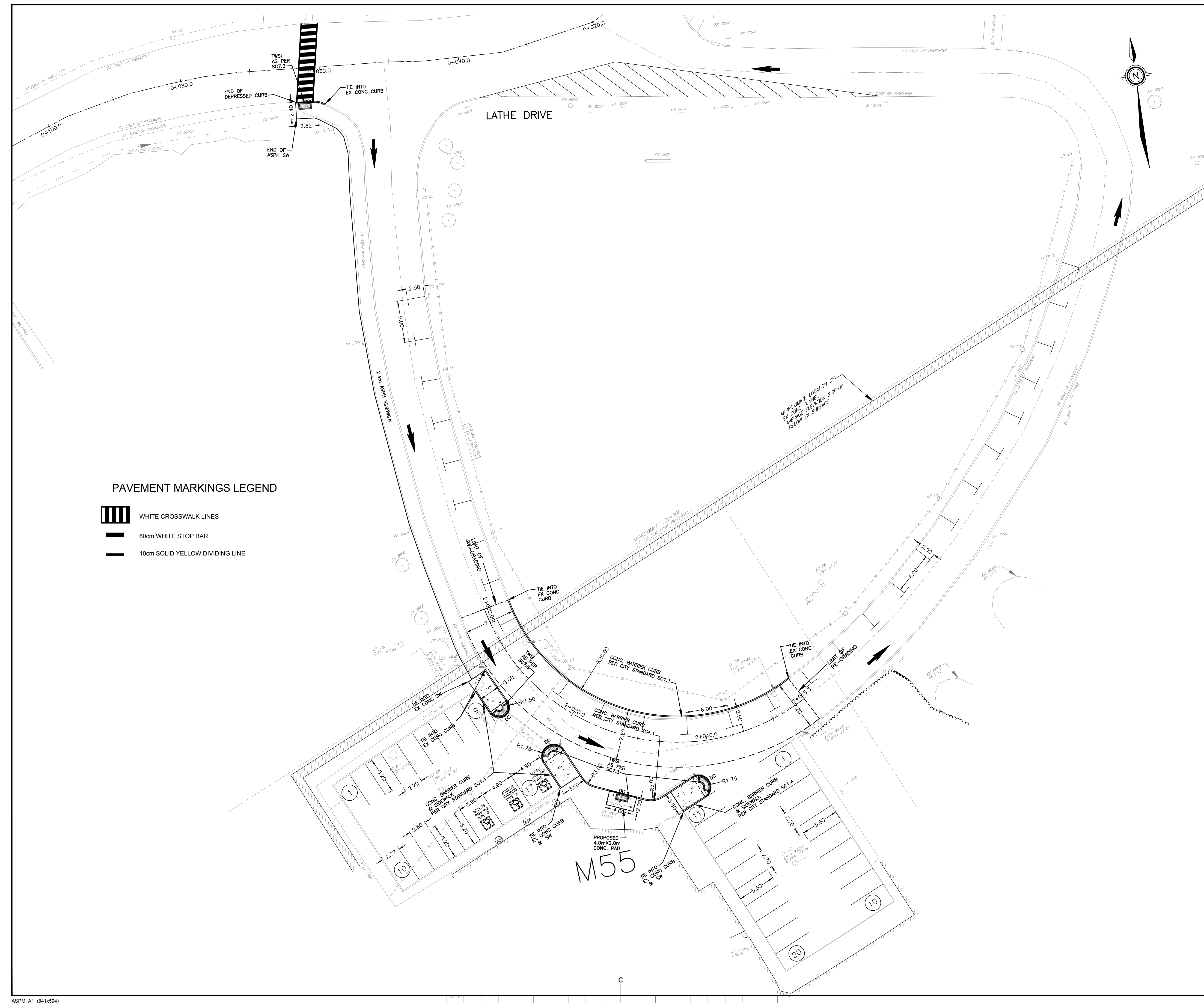
Date Printed: \_\_\_\_\_ Date imprimée: \_\_\_\_\_

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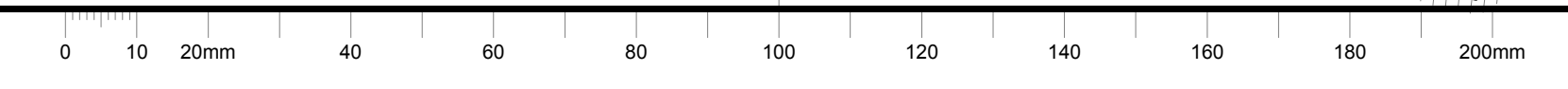
PROJECT / projet  
 ROAD, CURB & SIDEWALK REHABILITATION  
 SOUTH SIDE MONTREAL ROAD CAMPUS  
 NATIONAL RESEARCH COUNCIL CANADA  
 MONTREAL ROAD CAMPUS  
 drawing / dessin  
 GEOMETRY LAYOUT

designed	conçu	date	date
JX		APRIL 2019	
drawn	dessiné	scale	échelle
MH		1:250	
checked	vérifié	sheet	of/da
KW/JX		7	of/da 18
approved	approuvé	W.O.no.	D.T.no.
KW		-	
dwg.no.			dessin no.
5710-C107			



PAVEMENT MARKINGS LEGEND

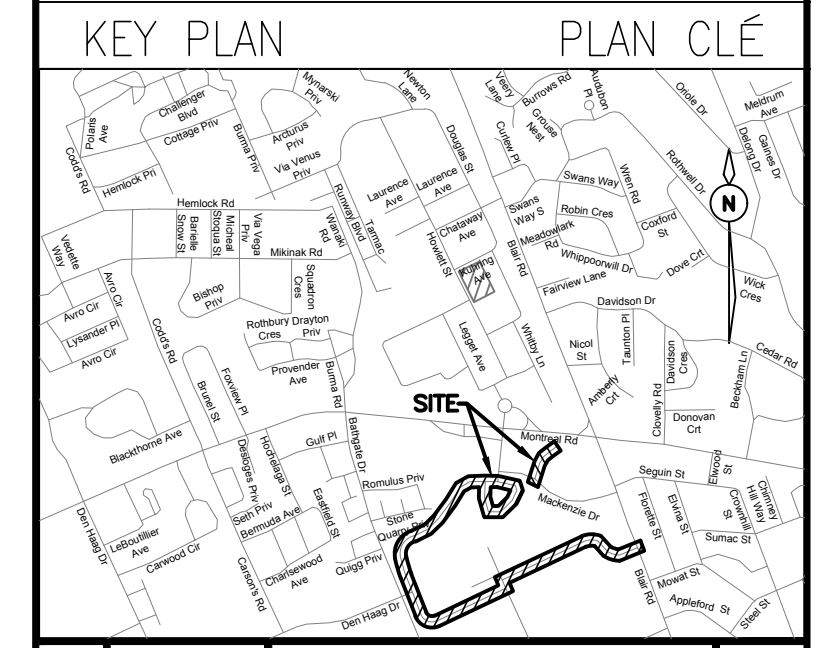
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	60cm WHITE STOP BAR
	10cm SOLID YELLOW DIVIDING LINE



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Date Printed	Date imprimée
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A	A Detail no. / No. du détail	A
B	B Location drawing no. / sur dessin no.	B
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project / projet  
 ROAD, CURB & SIDEWALK REHABILITATION  
 SOUTH SIDE MONTREAL ROAD CAMPUS  
 NATIONAL RESEARCH COUNCIL CANADA

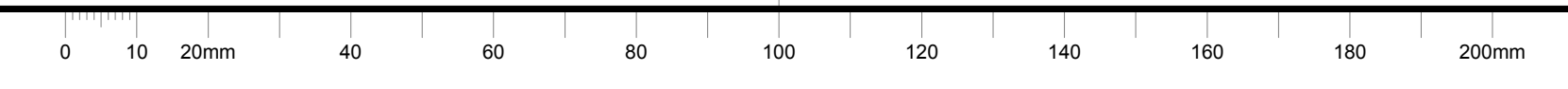
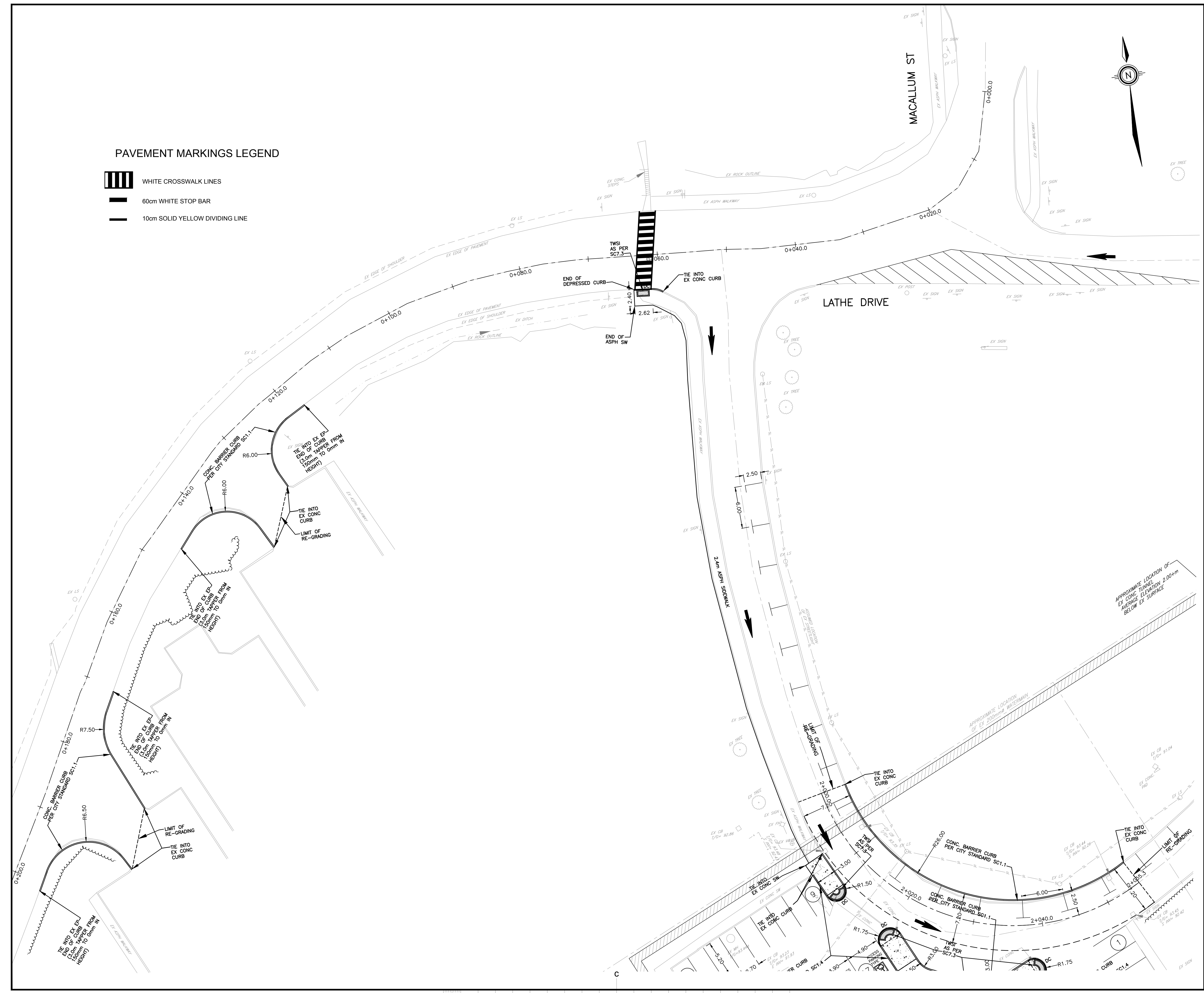
MONTREAL ROAD CAMPUS  
 drawing / dessin  
 GEOMETRY LAYOUT

designed / conçu	JX	date / date	APRIL 2019
drawn / dessiné	MH	scale / échelle	1:250
checked / vérifié	KW/JX	sheet / feuille	8 of / de 18
approved / approuvé	KW	W.O.no. / D.T.no.	-

dwg.no. / dessin no.  
**5710-C108**

PAVEMENT MARKINGS LEGEND

- WHITE CROSSWALK LINES
- 60cm WHITE STOP BAR
- 10cm SOLID YELLOW DIVIDING LINE





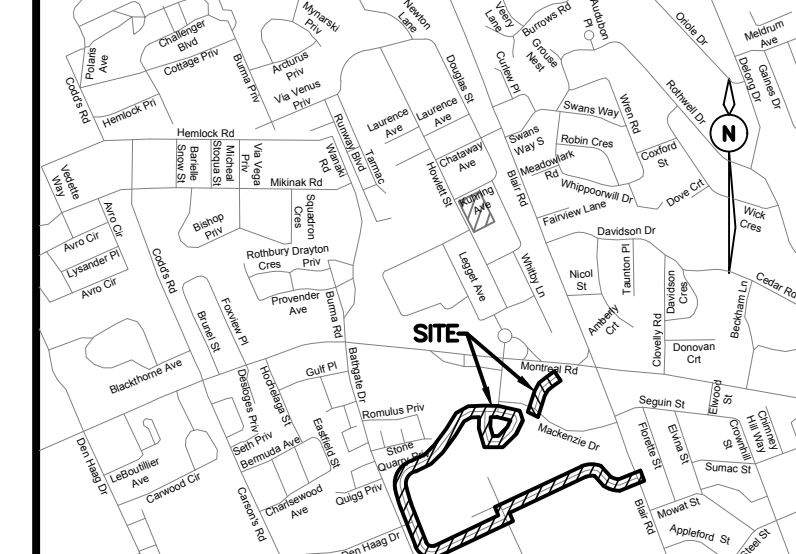


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KEY PLAN / PLAN CLÉ



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A	A Detail no. / No. du détail	A
B	B Location drawing no. / sur dessin no.	B
C	C Drawing no. / dessin no.	C

ROAD, CURB & SIDEWALK REHABILITATION  
 SOUTH SIDE MONTREAL ROAD CAMPUS  
 NATIONAL RESEARCH COUNCIL CANADA

MONTREAL ROAD CAMPUS

GRADING AND SITE SERVICING PLAN

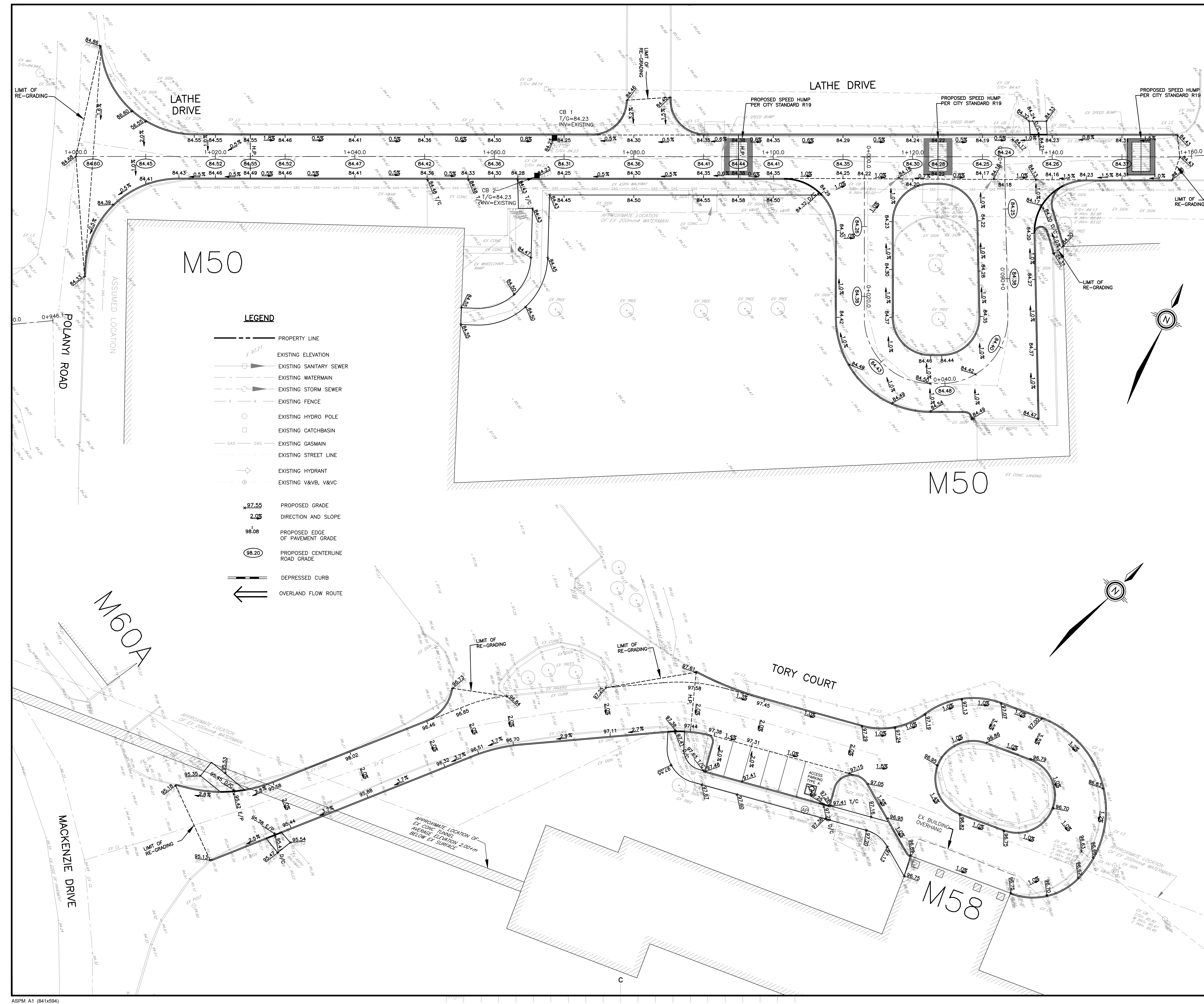
designed	conçu	date	date
JX		APRIL 2019	

drawn	dessiné	scale	échelle
MH		1:250	

checked	vérifié	sheet	9 of/de	feuille
KW/JX		18		

approved	approuvé	W.O.no.	D.T.no.
KW		-	

dwg.no.	dessin no.
5710-C109	



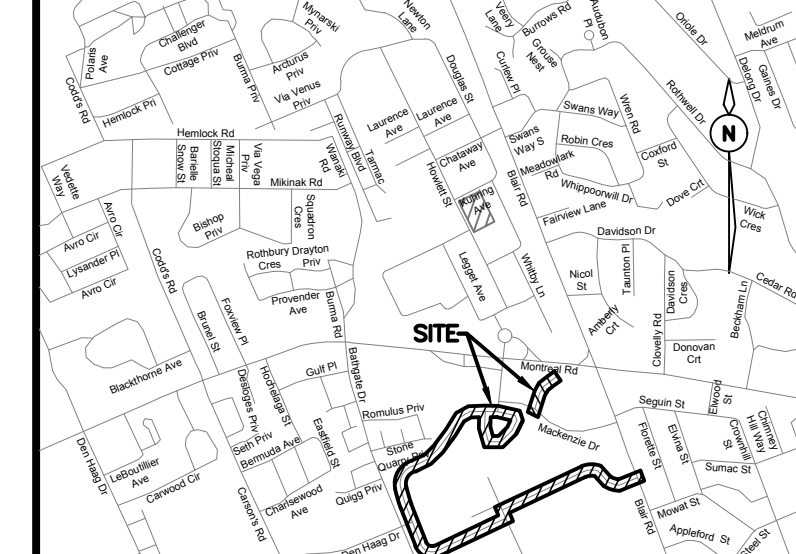


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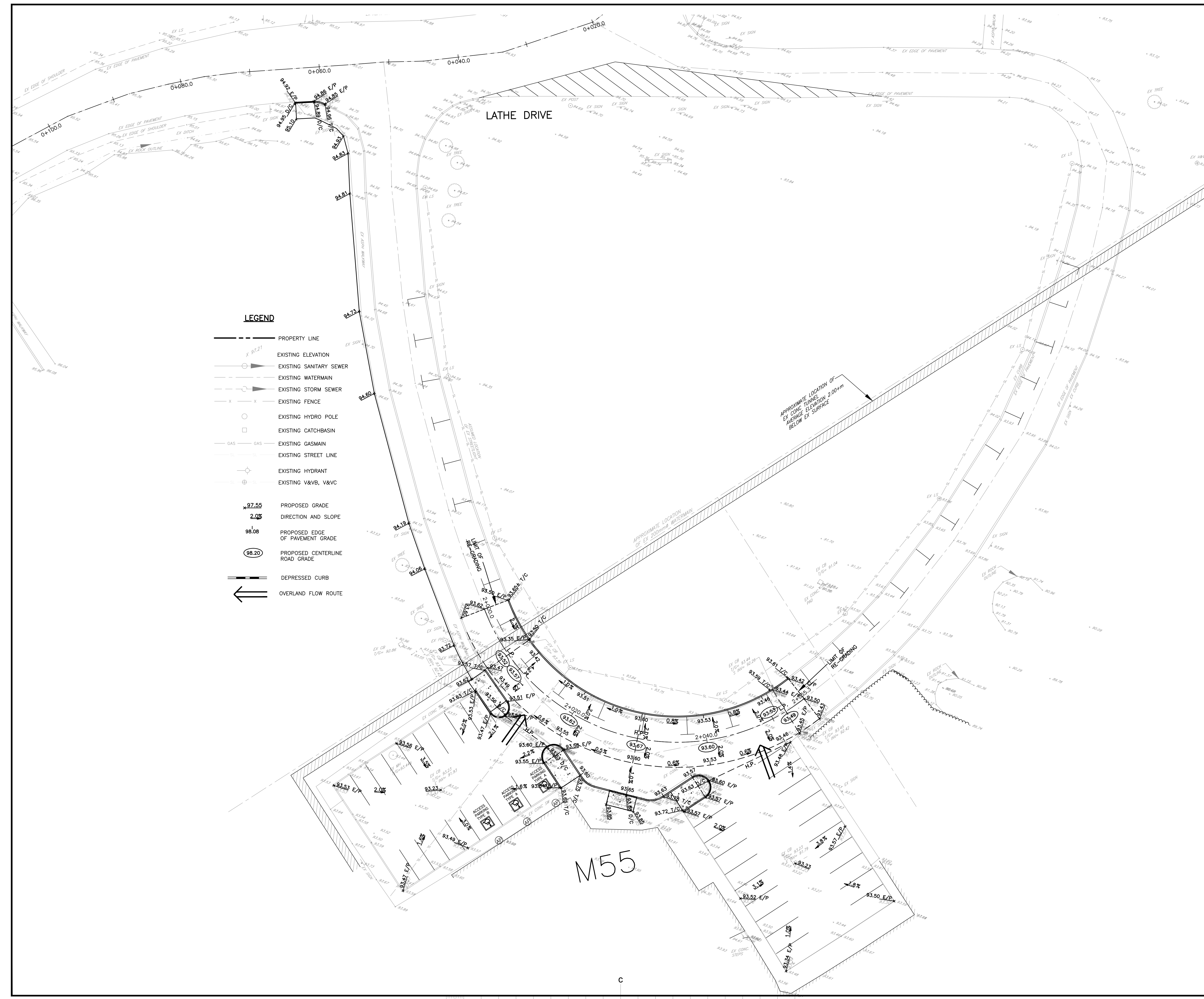
A	A Detail no. / No. du détail	A
B	B Location drawing no. / sur dessin no.	B
C	C Drawing no. / dessin no.	C

PROJECT: ROAD, CURB & SIDEWALK REHABILITATION  
 SOUTH SIDE MONTREAL ROAD CAMPUS  
 NATIONAL RESEARCH COUNCIL CANADA  
 MONTREAL ROAD CAMPUS

DRAWING: GRADING AND SITE SERVICING PLAN

designed	conçu	date	date
JX		APRIL 2019	
drawn	dessiné	scale	échelle
MH		1:250	
checked	vérifié	sheet	of/de
KW/JX		10	of/de 18
approved	approuvé	W.O.no.	D.T.no.
KW		-	
dwg.no.	dessin no.		

5710-C110



**LEGEND**

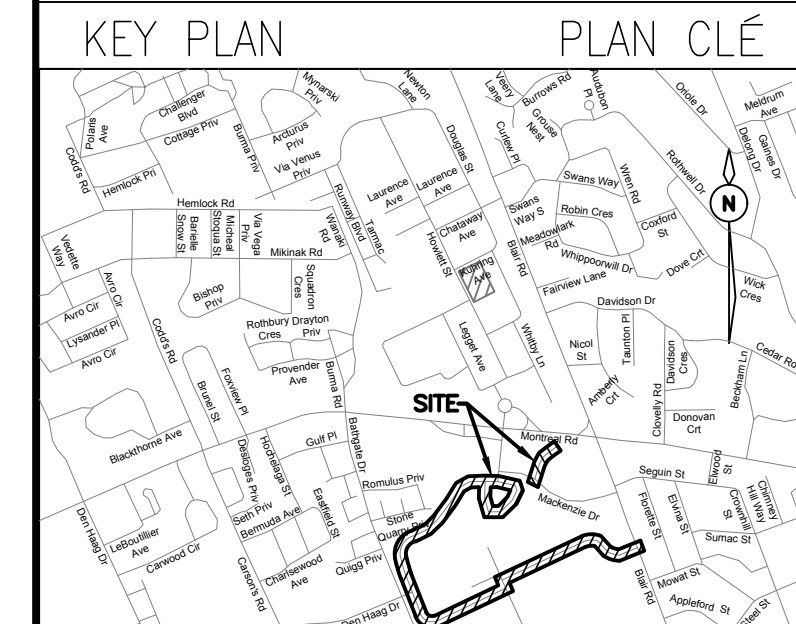
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- EXISTING ELEVATION
- EXISTING SANITARY SEWER
- EXISTING WATERMAIN
- EXISTING STORM SEWER
- EXISTING FENCE
- EXISTING HYDRO POLE
- EXISTING CATCHBASIN
- GAS
- EXISTING GASMAIN
- EXISTING STREET LINE
- EXISTING HYDRANT
- ⊕ EXISTING V&VB, V&VC
- 97.55 PROPOSED GRADE
- 2.0% DIRECTION AND SLOPE
- 96.08 PROPOSED EDGE OF PAVEMENT GRADE
- 98.20 PROPOSED CENTERLINE ROAD GRADE
- DEPRESSED CURB
- ← OVERLAND FLOW ROUTE



**GENERAL NOTES**

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3	16-08-2019	ISSUED FOR TENDER	KW
2	19-07-2019	ISSUED FOR 90% DESIGN SUBMISSION	KW
1	31-05-2019	ISSUED FOR 66% DESIGN REVIEW	KW

Date Printed	Date imprimée

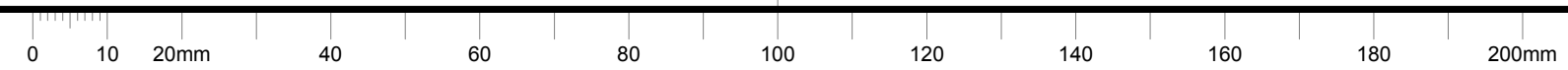
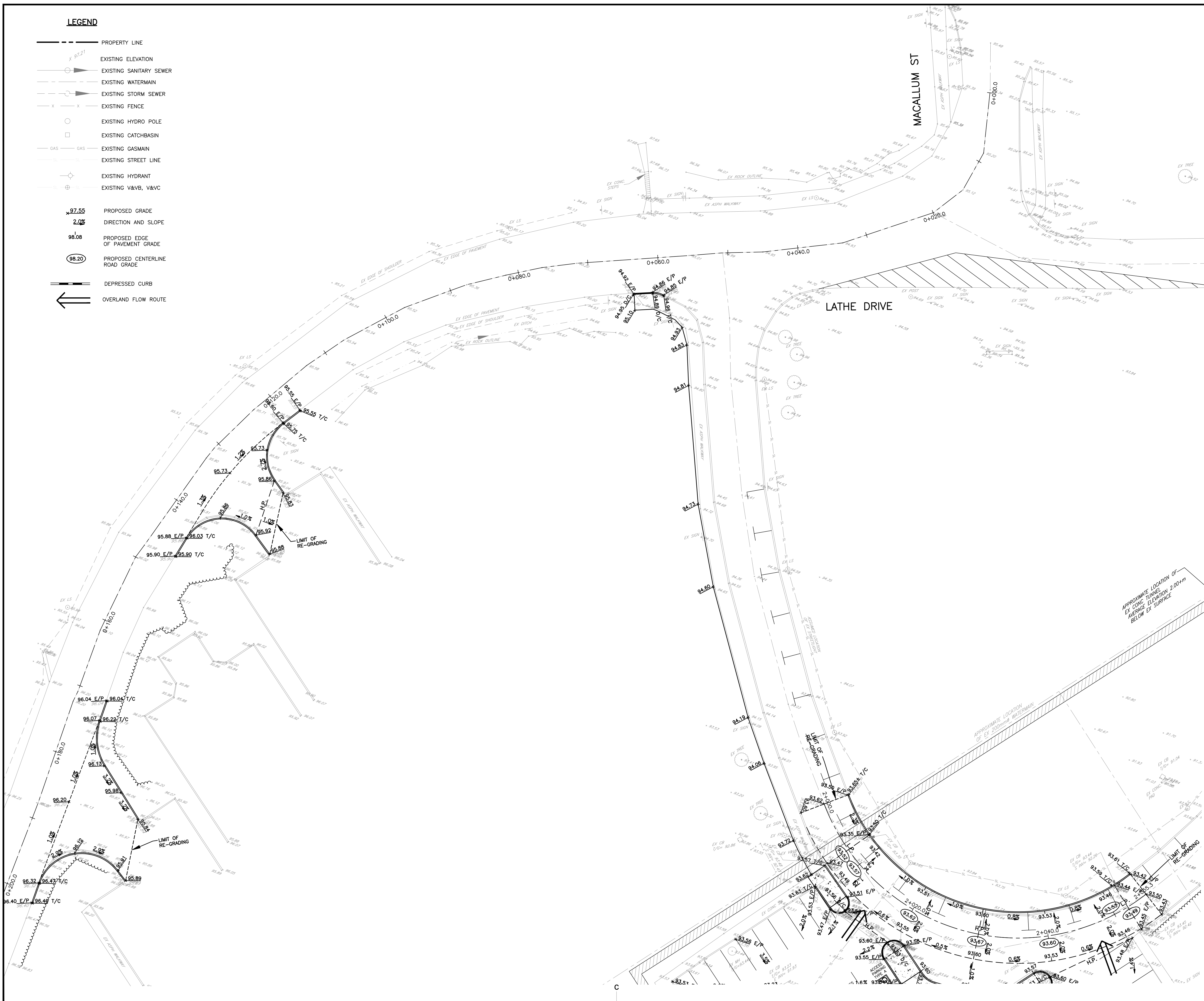
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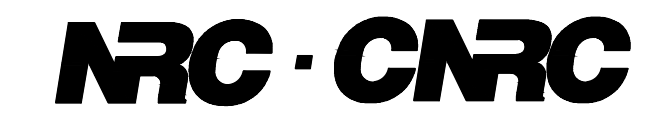
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B	B Location drawing no. / sur dessin no.	B
C	C Drawing no. / dessin no.	C

PROJECT / projet  
 ROAD, CURB & SIDEWALK REHABILITATION  
 SOUTH SIDE MONTREAL ROAD CAMPUS  
 NATIONAL RESEARCH COUNCIL CANADA  
 MONTREAL ROAD CAMPUS  
 drawing / dessin  
 GRADING AND SITE SERVICING PLAN

designed / conçu	JX	date / date	APRIL 2019
drawn / dessiné	MH	scale / échelle	1:250
checked / vérifié	KW/JX	sheet / feuille	11 of / de 18
approved / approuvé	KW	W.O.no. / D.T.no.	-

dwg.no. / dessin no.  
**5710-C111**





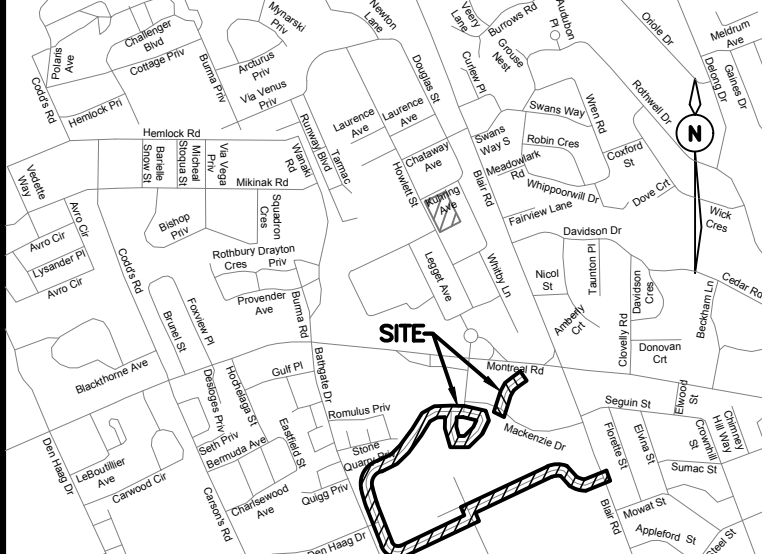
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 NATIONAL RESEARCH COUNCIL CANADA

MONTREAL ROAD CAMPUS

DRAWING / dessin  
 REINSTATEMENTS

DESIGNED / conçu	JX	DATE / date	APRIL 2019
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DRAWN / dessiné	MH	SCALE / échelle	1:250
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CHECKED / vérifié	KW/JX	SHEET / feuille	12 of / de 18
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APPROVED / approuvé	KW	W.O. NO. / D.T. NO.	-
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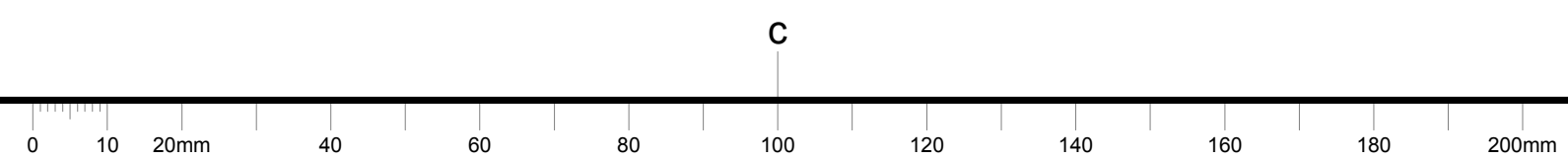
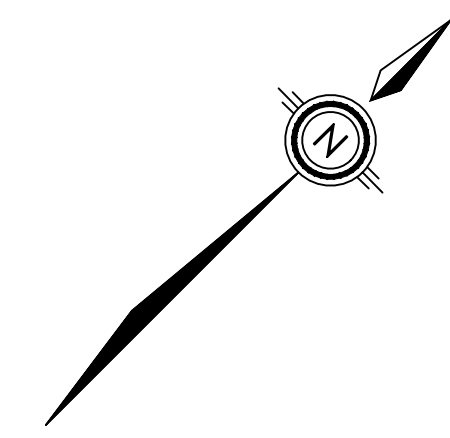
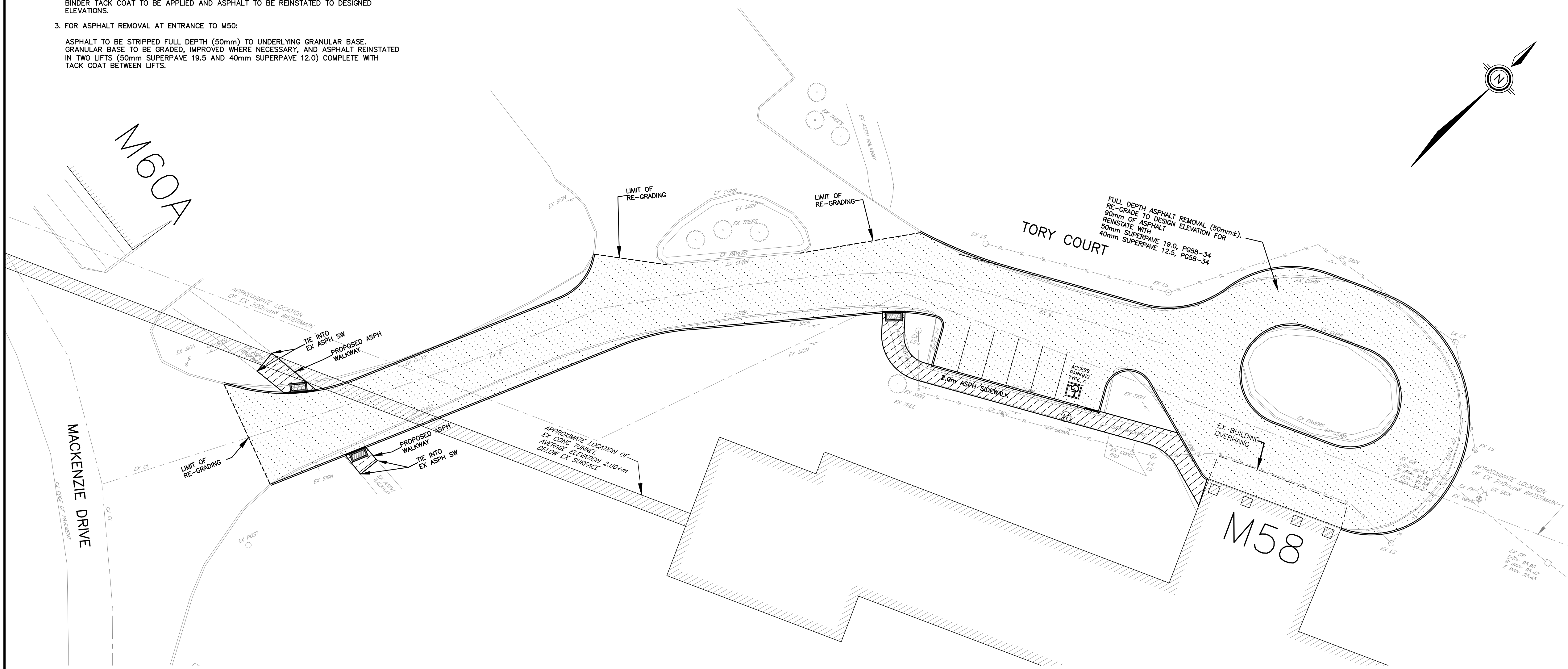
DWG. NO. / dessin no.	5710-C112
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LEGEND:

- ASPHALT SIDEWALK REINSTATEMENT
- ASPHALT ROAD RE-GRADING & REINSTATEMENT
- ASPHALT ROAD FULL DEPTH ASPHALT REMOVAL (50mm±) & REINSTATEMENT (50mm± SUPERPAVE 12.5, PG 58-34)
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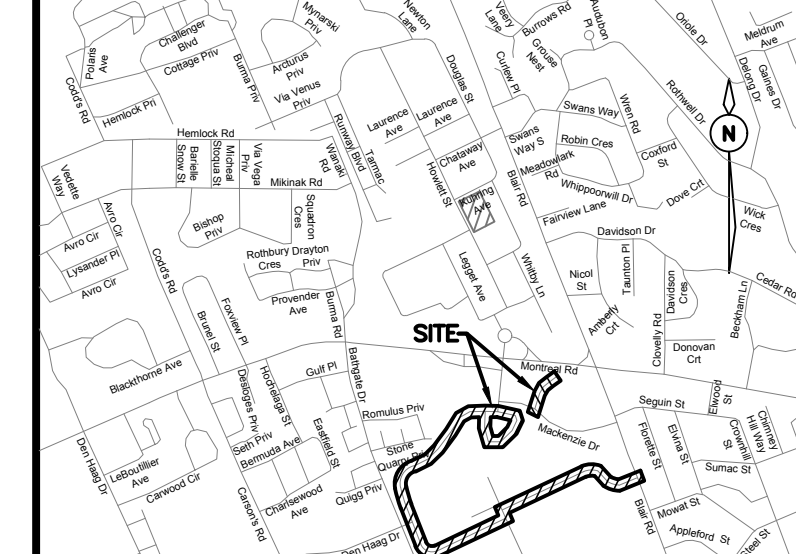


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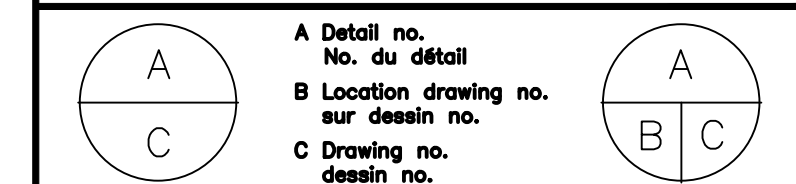
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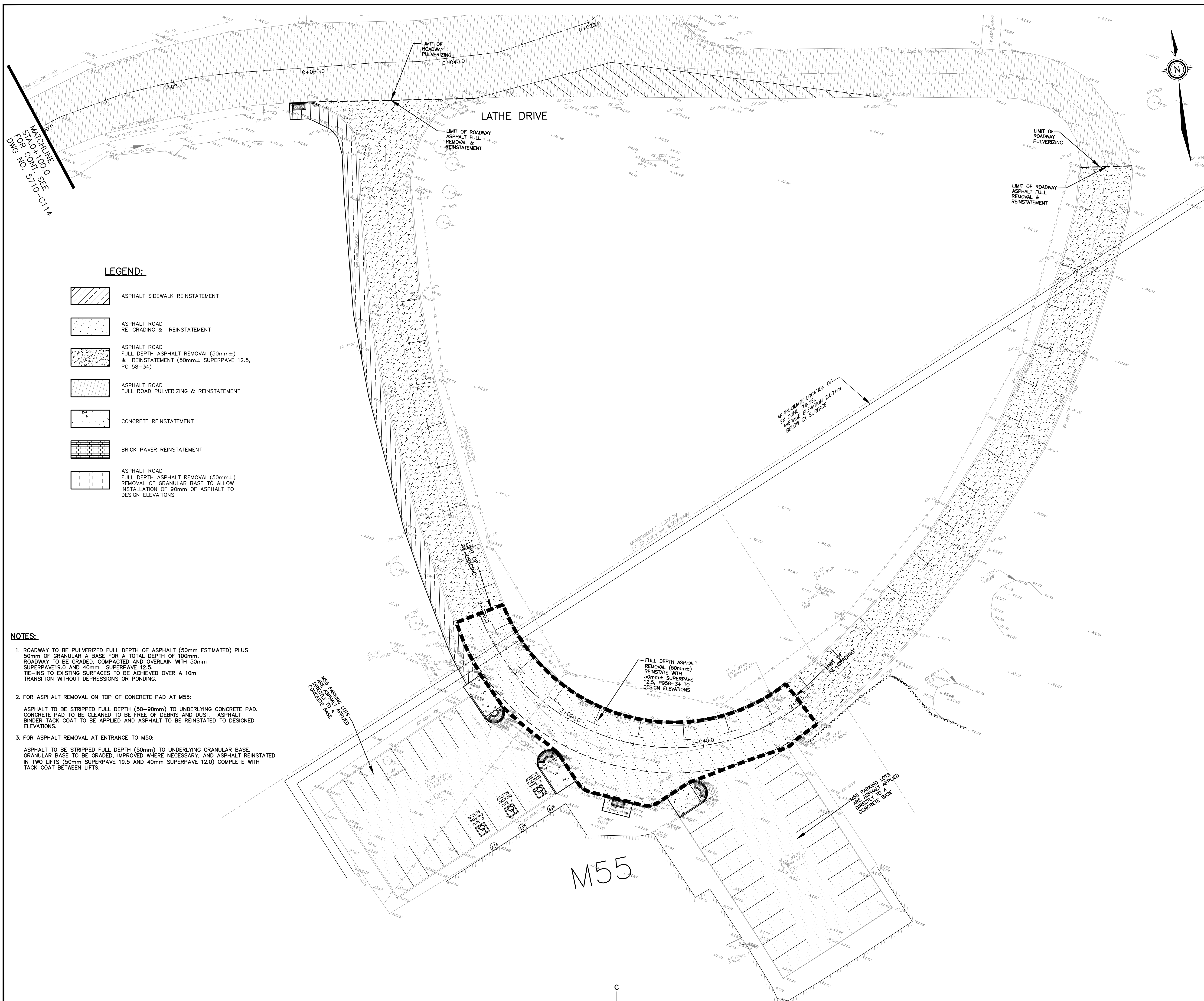
PROJECT: ROAD, CURB & SIDEWALK REHABILITATION  
 SOUTH SIDE MONTREAL ROAD CAMPUS  
 NATIONAL RESEARCH COUNCIL CANADA

MONTREAL ROAD CAMPUS

drawing: REINSTATEMENTS

designed	conçu	date	date
JX		APRIL 2019	
drawn	dessiné	scale	échelle
MH		1:250	
checked	vérifié	sheet	of/de
KW/JX		13	of/de 18
approved	approuvé	W.O.no.	D.T.no.
KW		-	-
dwg.no.			dessin no.

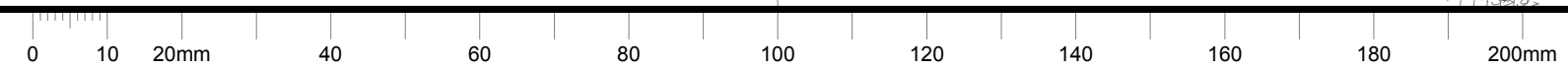
5710-C113



MARCHLINE  
 STA:0+100.0 SEE  
 DWG. NO. 5710-C114

- LEGEND:**
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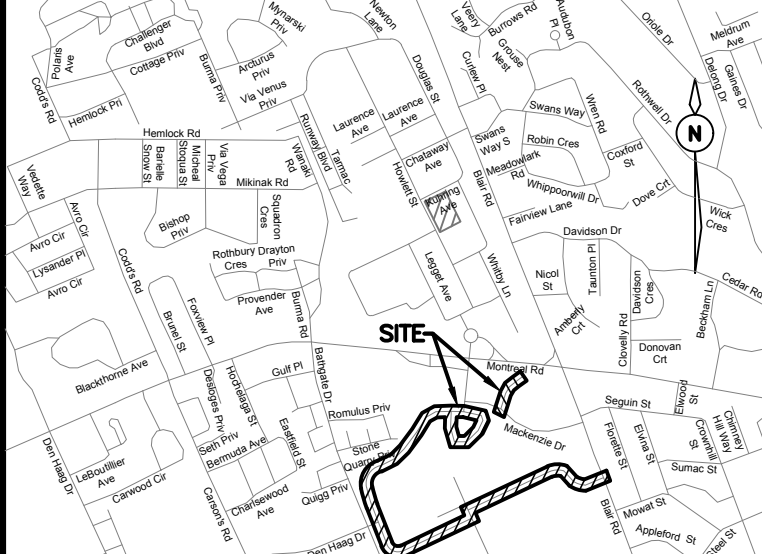


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 SOUTH SIDE MONTREAL ROAD CAMPUS  
 NATIONAL RESEARCH COUNCIL CANADA

MONTREAL ROAD CAMPUS

drawing / dessin  
 REINSTATEMENTS

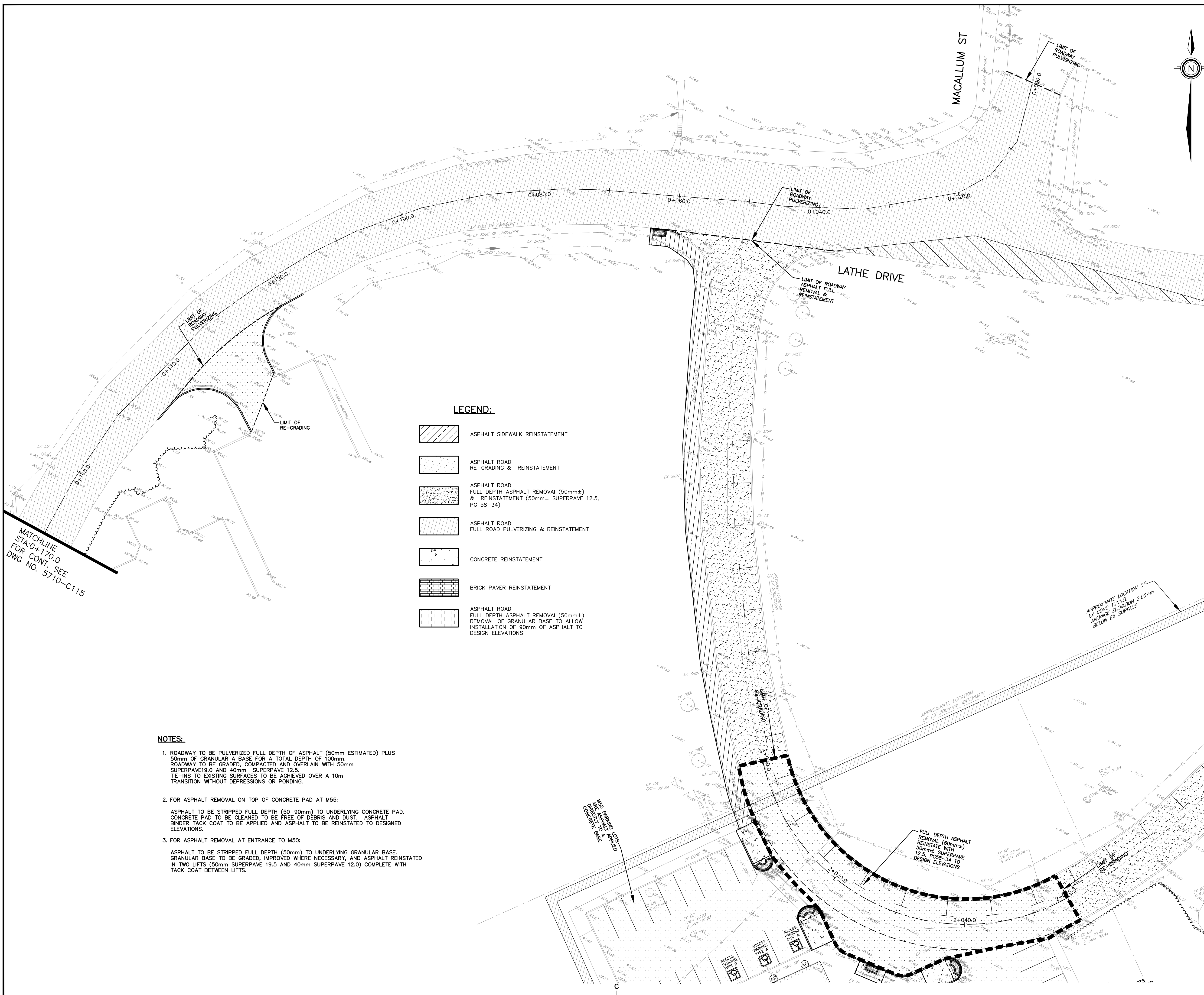
designed / conçu	JX	date	APRIL 2019
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drawn / dessiné	MH	scale / échelle	1:250
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checked / vérifié	KW/JX	sheet / feuille	14 of / de 18
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approved / approuvé	KW	W.O.no.	-	D.T.no.	-
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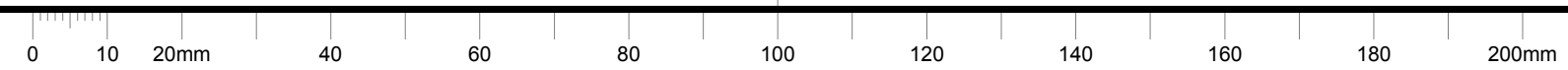
dwg.no. / dessin no.  
 5710-C114



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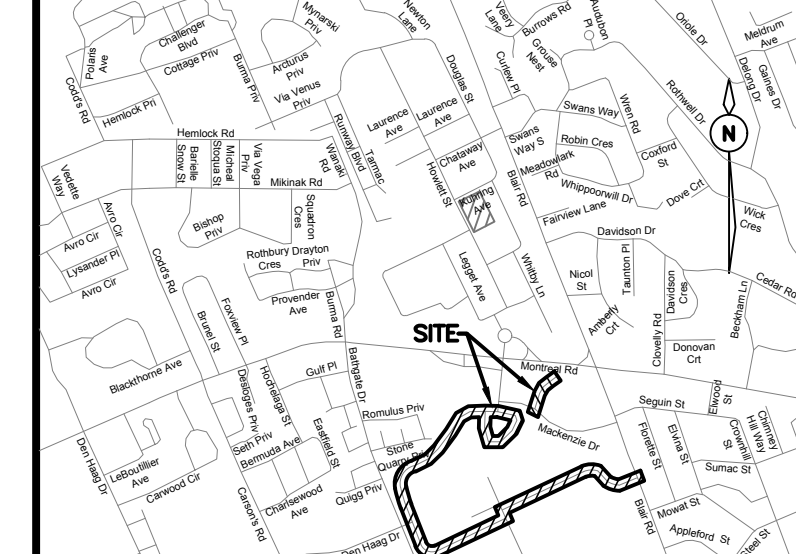


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MONTREAL ROAD CAMPUS

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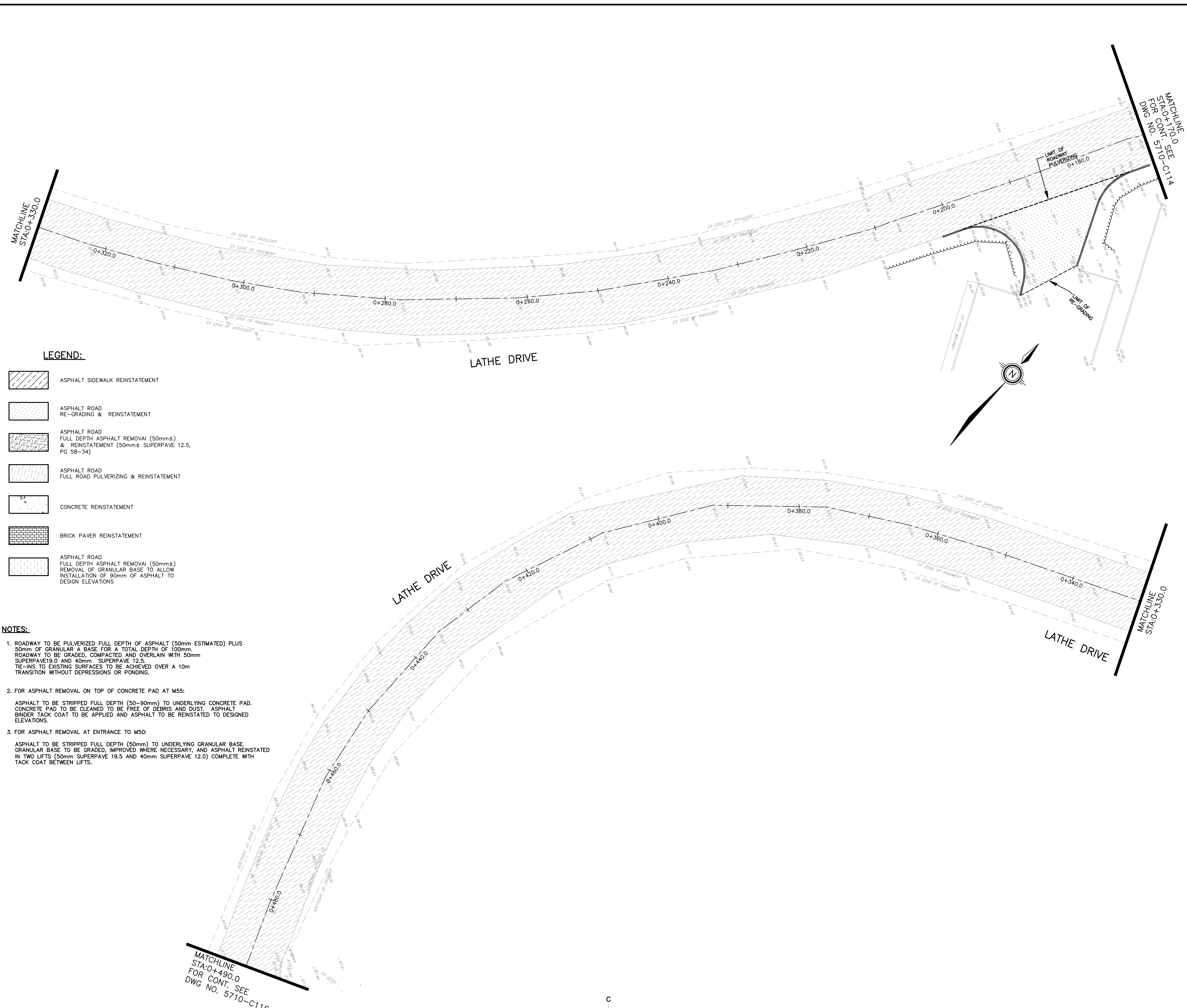
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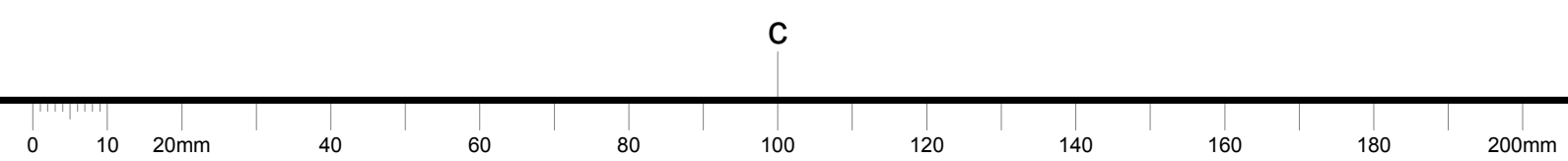
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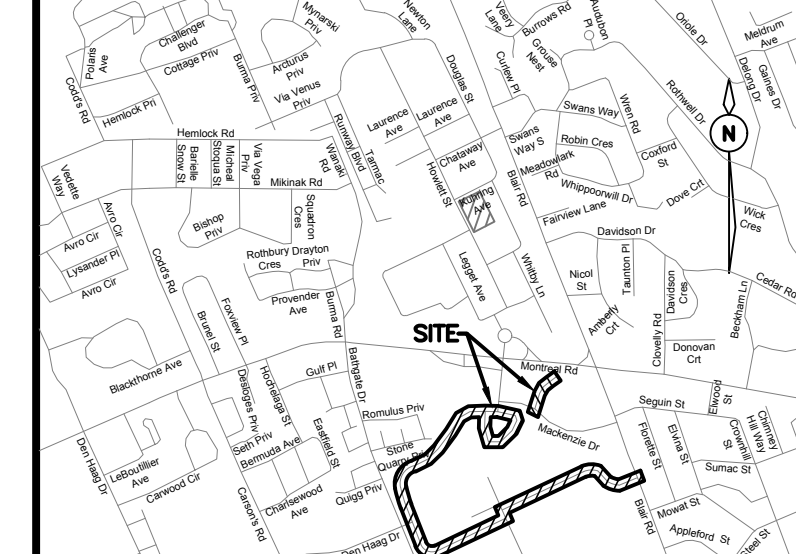


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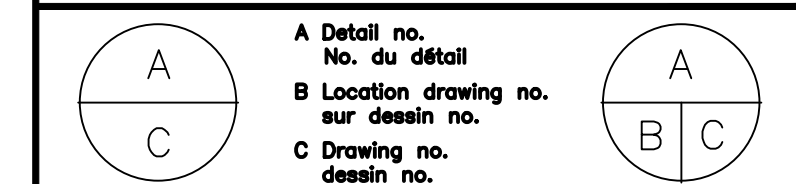
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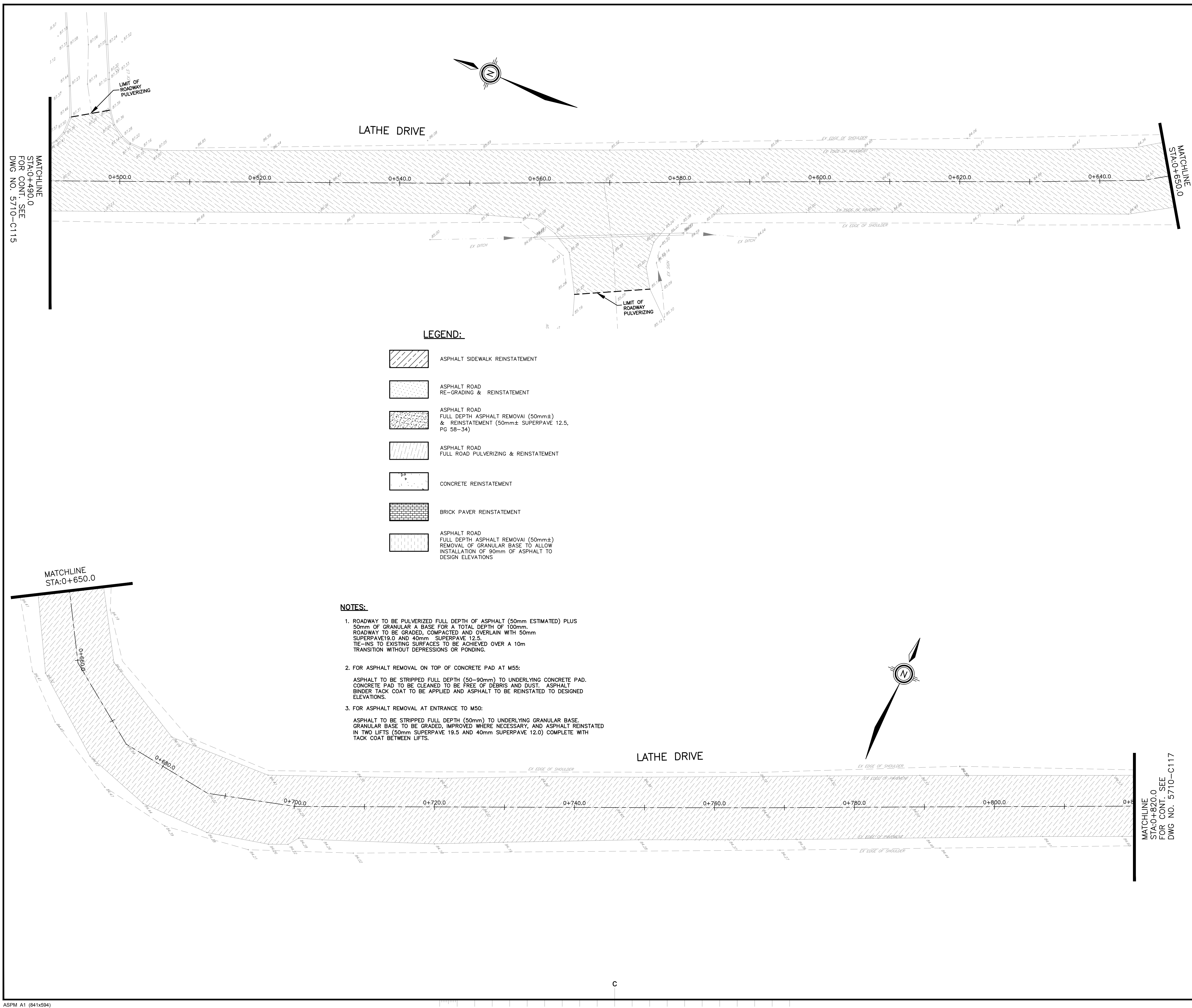


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 NATIONAL RESEARCH COUNCIL CANADA

MONTREAL ROAD CAMPUS

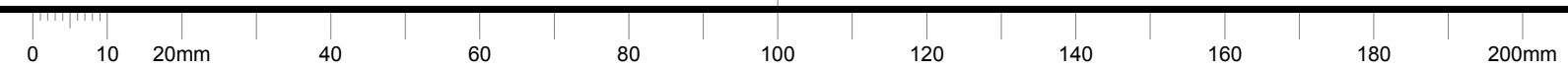
drawing / dessin  
 REINSTATEMENTS

designed	conçu	date	date
JX		APRIL 2019	
drawn	dessiné	scale	échelle
MH		1:250	
checked	vérifié	sheet	of/de
KW/JX		16	of/de 18
approved	approuvé	W.O.no.	D.T.no.
KW		-	
dwg.no.			dessin no.
5710-C116			



- LEGEND:**
- ASPHALT SIDEWALK REINSTATEMENT
  - ASPHALT ROAD RE-GRADING & REINSTATEMENT
  - ASPHALT ROAD FULL DEPTH ASPHALT REMOVAL (50mm±) & REINSTATEMENT (50mm± SUPERPAVE 12.5, PG 58-34)
  - ASPHALT ROAD FULL ROAD PULVERIZING & REINSTATEMENT
  - CONCRETE REINSTATEMENT
  - BRICK PAVER REINSTATEMENT
  - ASPHALT ROAD FULL DEPTH ASPHALT REMOVAL (50mm±) REMOVAL OF GRANULAR BASE TO ALLOW INSTALLATION OF 90mm OF ASPHALT TO DESIGN ELEVATIONS

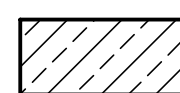
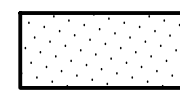

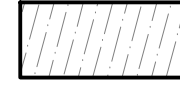

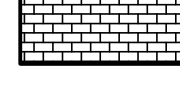
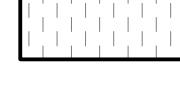
- NOTES:**
- ROADWAY TO BE PULVERIZED FULL DEPTH OF ASPHALT (50mm ESTIMATED) PLUS 50mm OF GRANULAR A BASE FOR A TOTAL DEPTH OF 100mm. ROADWAY TO BE GRADED, COMPACTED AND OVERLAIN WITH 50mm SUPERPAVE 19.0 AND 40mm SUPERPAVE 12.5. TIE-INS TO EXISTING SURFACES TO BE ACHIEVED OVER A 10m TRANSITION WITHOUT DEPRESSIONS OR FONDING.
  - FOR ASPHALT REMOVAL ON TOP OF CONCRETE PAD AT M55:  
 ASPHALT TO BE STRIPPED FULL DEPTH (50-90mm) TO UNDERLYING CONCRETE PAD. CONCRETE PAD TO BE CLEANED TO BE FREE OF DEBRIS AND DUST. ASPHALT BINDER TACK COAT TO BE APPLIED AND ASPHALT TO BE REINSTATED TO DESIGNED ELEVATIONS.
  - FOR ASPHALT REMOVAL AT ENTRANCE TO M50:  
 ASPHALT TO BE STRIPPED FULL DEPTH (50mm) TO UNDERLYING GRANULAR BASE. GRANULAR BASE TO BE GRADED, IMPROVED WHERE NECESSARY, AND ASPHALT REINSTATED IN TWO LIFTS (50mm SUPERPAVE 19.5 AND 40mm SUPERPAVE 12.0) COMPLETE WITH TACK COAT BETWEEN LIFTS.



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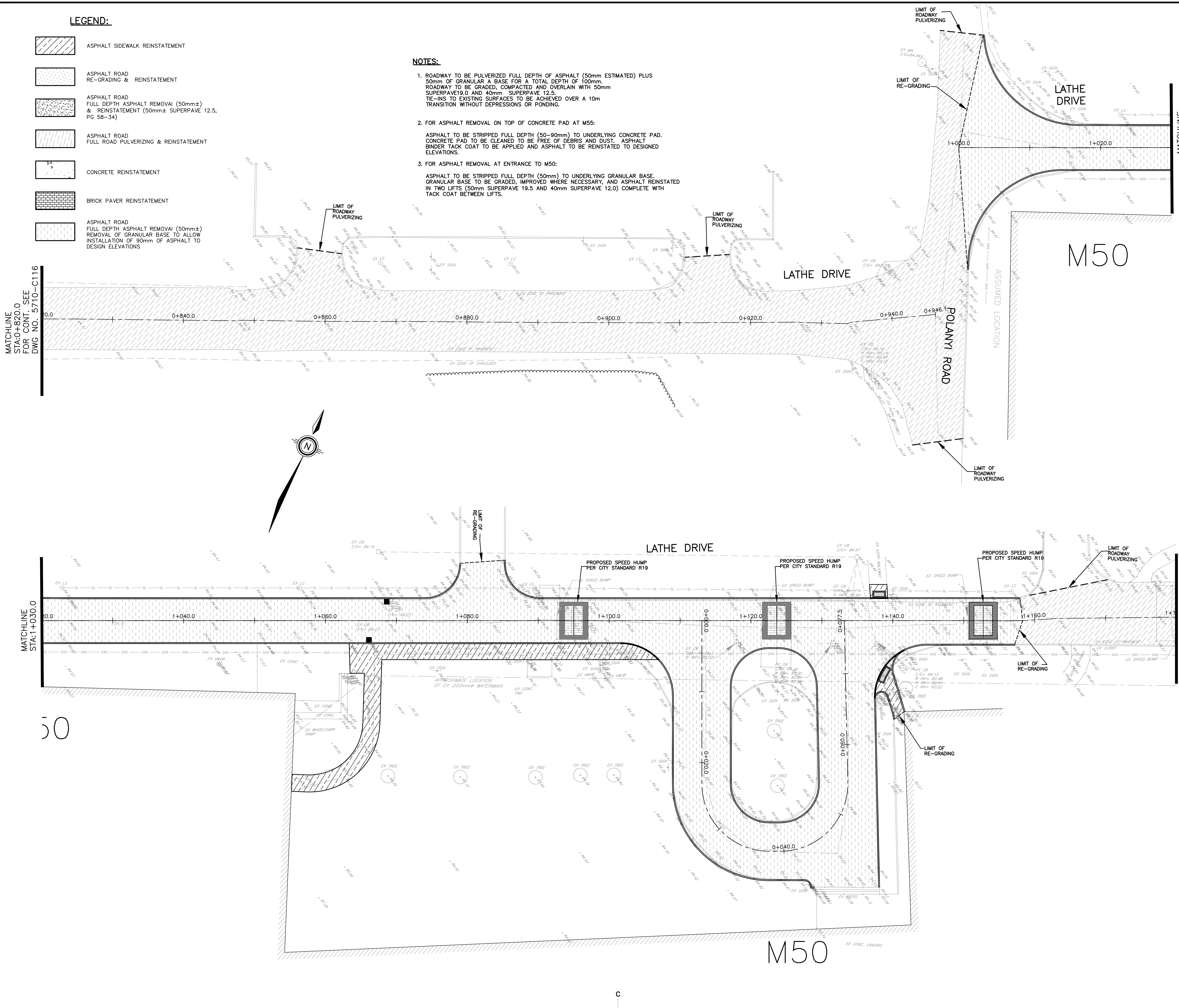


**LEGEND:**

-  ASPHALT SIDEWALK REINSTATEMENT
-  ASPHALT ROAD RE-GRADING & REINSTATEMENT
-  ASPHALT ROAD FULL DEPTH ASPHALT REMOVAL (50mm±) & REINSTATEMENT (50mm± SUPERPAVE 12.5, PG 58-34)
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-  BRICK PAVER REINSTATEMENT
-  ASPHALT ROAD FULL DEPTH ASPHALT REMOVAL (50mm±) REMOVAL OF GRANULAR BASE TO ALLOW INSTALLATION OF 90mm OF ASPHALT TO DESIGN ELEVATIONS

**NOTES:**

1. ROADWAY TO BE PULVERIZED FULL DEPTH OF ASPHALT (50mm ESTIMATED) PLUS 50mm OF GRANULAR A BASE FOR A TOTAL DEPTH OF 100mm. ROADWAY TO BE GRADED, COMPACTED AND OVERLAIN WITH 50mm SUPERPAVE 19.0 AND 40mm SUPERPAVE 12.5. TIE-INS TO EXISTING SURFACES TO BE ACHIEVED OVER A 10m TRANSITION WITHOUT DEPRESSIONS OR PONDING.
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MATCHLINE STA:0+820.0 FOR CONT. SEE DWG. NO. 5710-C116

MATCHLINE STA:1+030.0

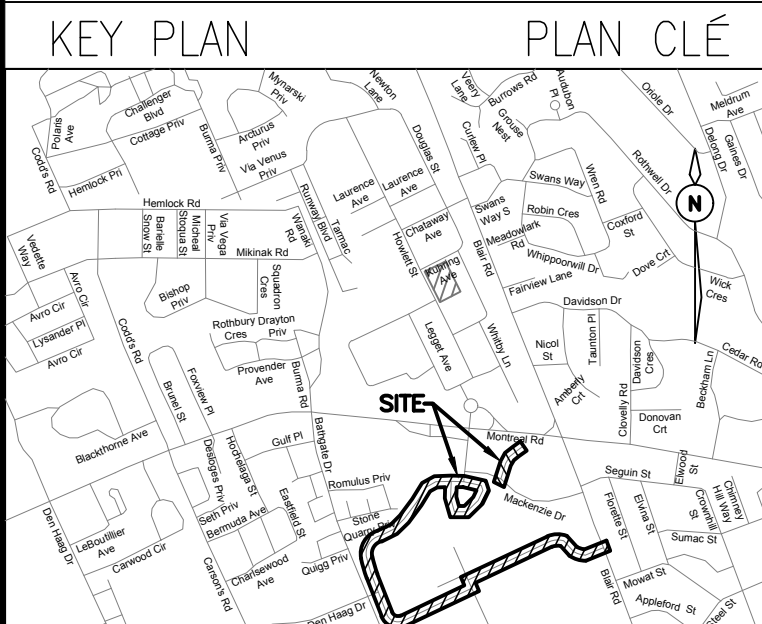
MATCHLINE STA:1+180.0 FOR CONT. SEE DWG. NO. 5710-C118



**GENERAL NOTES**

- CONTRACTOR TO VERIFY ALL DIMENSIONS AND CLEARANCES ON SITE PRIOR TO CONSTRUCTION AND REPORT ANY DISCREPANCIES AND/OR OMISSIONS TO DEPARTMENTAL REPRESENTATIVE.
- CONTRACTORS MUST VISIT THE SITE AND FULLY FAMILIARIZE THEMSELVES WITH THE SCOPE OF THE WORK PRIOR TO PROJECT COMMENCEMENT.
- ALL TRADES TO COORDINATE WORK ON SITE, WITH APPROVAL OF DEPARTMENTAL REPRESENTATIVE TO AVOID ANY CONFLICTS AND/OR INTERFERENCE.
- ANY AND ALL REQUIRED SHUTDOWNS SHALL BE COORDINATED WITH DEPARTMENTAL REPRESENTATIVE.
- INSTALLATION OF ALL SYSTEMS SHALL BE IN ACCORDANCE WITH APPLICABLE CODES AND STANDARDS.
- CONTRACTOR TO BE RESPONSIBLE FOR REINSTATEMENT AND REPAIR OF ANY DAMAGE CAUSED BY WORK.
- CONTRACTOR SHALL PREVENT THE SPREAD OF DUST AND DEBRIS BEYOND AREA OF WORK AND CLEAN ALL SURFACES AT COMPLETION.

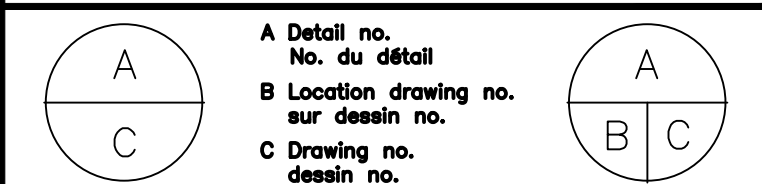
**Ainley GROUP**  
 2724 Fenton Road  
 Ottawa, Ontario  
 K1T 3T7  
 Telephone: (613) 822-1052  
 Fax: (613) 822-1573



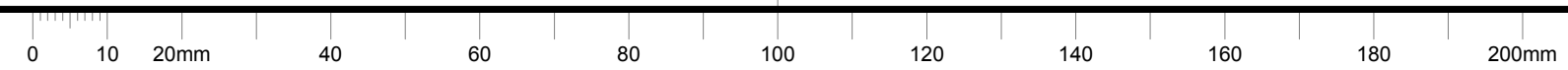
No.	Date	Revision	By:
3	16-08-2019	ISSUED FOR TENDER	KW
2	19-07-2019	ISSUED FOR 90% DESIGN SUBMISSION	KW
1	31-05-2019	ISSUED FOR 60% DESIGN REVIEW	KW

Date Printed: \_\_\_\_\_ Date Imprime: \_\_\_\_\_

- 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		ROAD, CURB & SIDEWALK REHABILITATION SOUTH SIDE MONTREAL ROAD CAMPUS NATIONAL RESEARCH COUNCIL CANADA	
drawing / dessin		REINSTATEMENTS	
designed / conçu	date	designé / date	échelle
JX	APRIL 2019	MH	1:250
drawn / dessiné	scale	checked / vérifié	sheet / feuille
KW/JX	17 of/da 18	approved / approuvé	W.O.no. / D.T.no.
KW	-	dwg.no. / dessin no.	5710-C117



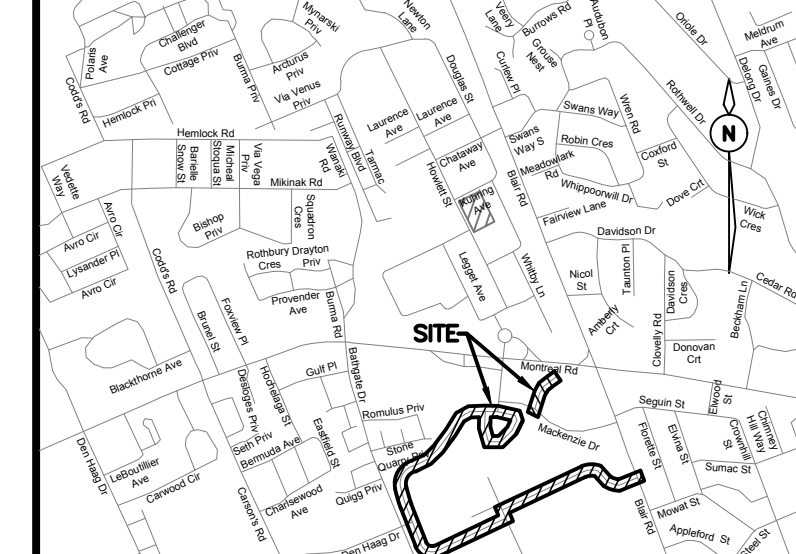


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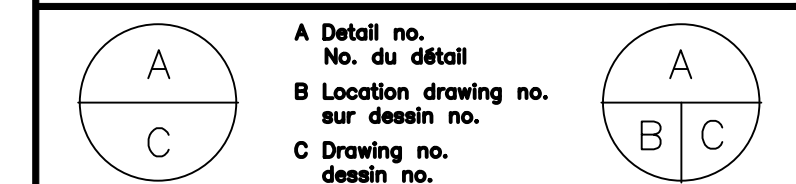
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No.	Date	Revision	By:
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1	31-05-2019	ISSUED FOR 66% DESIGN REVIEW	KW

Date Printed	Date Imprimée

- Verify all dimensions and site conditions and be responsible for same.
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project project  
 ROAD, CURB & SIDEWALK REHABILITATION  
 SOUTH SIDE MONTREAL ROAD CAMPUS  
 NATIONAL RESEARCH COUNCIL CANADA

MONTREAL ROAD CAMPUS

drawing dessin  
 REINSTATEMENTS

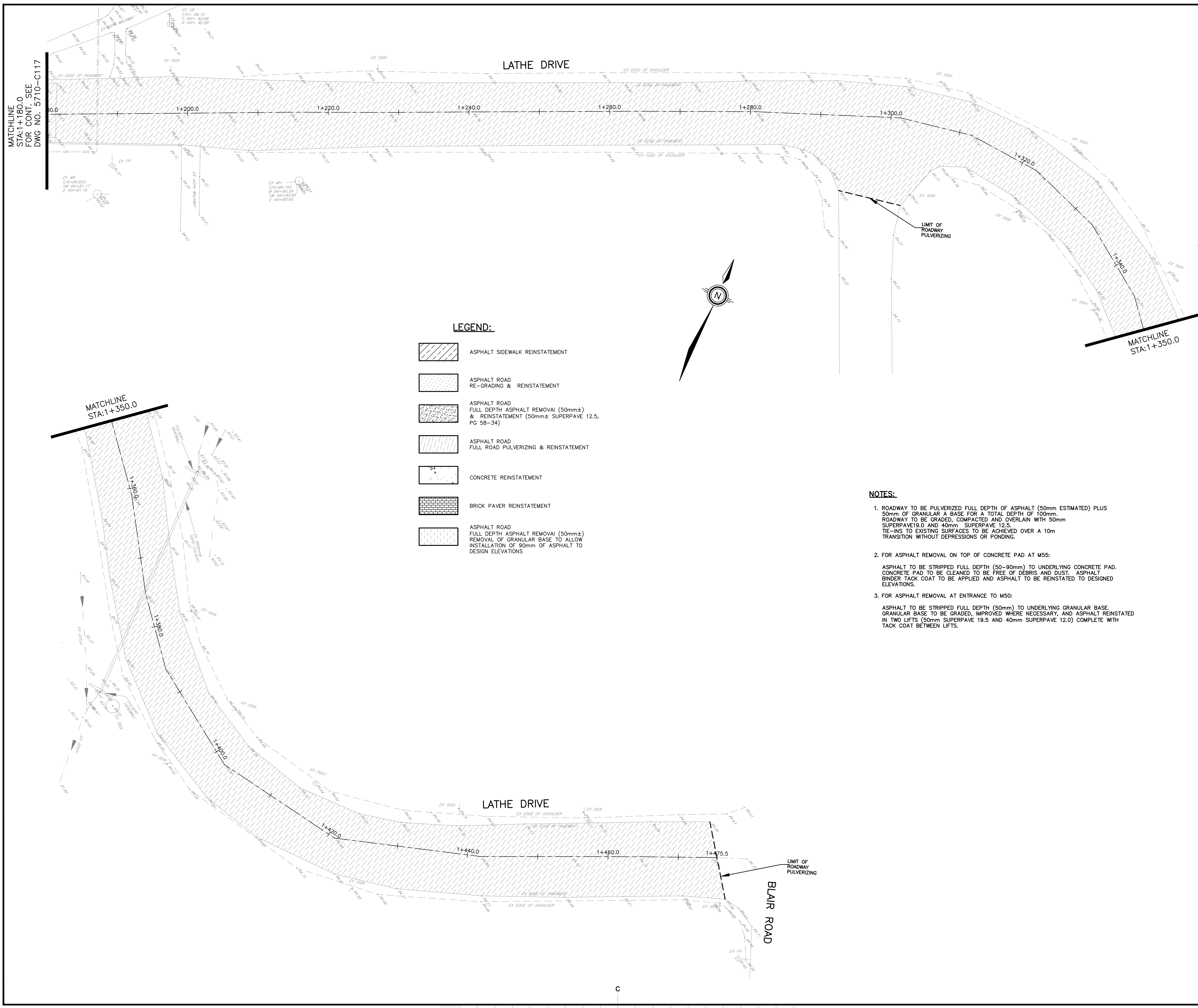
designed	conçu	date	date
JX		APRIL 2019	

drawn	dessiné	scale	échelle
MH		1:250	

checked	vérifié	sheet	of/de	feuille
KW/JX		18	of/de	18

approved	approuvé	W.O.no.	D.T.no.
KW		-	

dwg.no.	dessin no.
5710-C118	



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