

NOTES - GENERAL

- DRAWINGS TO BE READ IN CONJUNCTION WITH ARCHITECTURAL AND LANDSCAPE DRAWINGS
- ALL SERVICES, MATERIALS, CONSTRUCTION METHODS AND INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND REGULATIONS OF THE CITY OF OTTAWA STANDARD SPECIFICATIONS AND DRAWINGS, ONTARIO PROVINCIAL SPECIFICATION STANDARD SPECIFICATION (OPSS) AND ONTARIO PROVINCIAL STANDARD DRAWINGS (OPSD), UNLESS OTHERWISE SPECIFIED, TO THE SATISFACTION OF THE CITY AND THE CONSULTANT
- THE POSITION OF EXISTING POLE LINES, CONDUITS, WATERMANS, SEWERS AND OTHER UNDERGROUND AND ABOVEGROUND UTILITIES, STRUCTURES AND APPURTENANCES IS NOT NECESSARILY SHOWN ON THE CONTRACT DRAWING, AND WHERE SHOWN, THE ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL SATISFY HIMSELF OF THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES, AND SHALL ASSUME ALL LIABILITY FOR DAMAGE TO THEM DURING THE COURSE OF CONSTRUCTION. ANY RELOCATION OF EXISTING UTILITIES REQUIRED BY THE DEVELOPMENT OF SUBJECT LANDS IS TO BE UNDERTAKEN AT CONTRACTOR'S EXPENSE.
- THE CONTRACTOR MUST NOTIFY ALL EXISTING UTILITY COMPANY OFFICIALS FIVE (5) BUSINESS DAYS PRIOR TO START OF CONSTRUCTION AND HAVE ALL EXISTING UTILITIES AND SERVICES LOCATED IN THE FIELD OR EXPOSED PRIOR TO THE START OF CONSTRUCTION, INCLUDING BUT NOT LIMITED TO HYDRO, BELL, CABLE TV, AND CONSUMERS GAS LINES.
- ALL TRENCHING AND EXCAVATIONS TO BE IN ACCORDANCE WITH THE LATEST REVISIONS OF THE OCCUPATIONAL HEALTH AND SAFETY ACT AND REGULATIONS FOR CONSTRUCTION PROJECTS AND AS PER THE RECOMMENDATIONS INCLUDED IN THE GEOTECHNICAL REPORT.
- REFER TO ARCHITECT'S PLANS FOR BUILDING DIMENSIONS, LAYOUT AND REMOVALS. REFER TO LANDSCAPE PLAN FOR LANDSCAPED DETAILS AND OTHER RELEVANT INFORMATION. ALL INFORMATION SHALL BE CONFIRMED PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- TOPOGRAPHIC SURVEY COMPLETED AND PROVIDED BY ANNIS, O'SULLIVAN, VOLLEBEK LTD. DATED ON NOVEMBER 15, 2006 AND REVISED ON MARCH 24, 2016. CONTRACTOR TO VERIFY IN THE FIELD PRIOR TO CONSTRUCTION OF ANY WORK AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
- ALL ELEVATIONS ARE GEODETIC AND UTILIZE METRIC UNITS. VERIFY THAT JOB BENCHMARKS HAVE NOT BEEN ALTERED OR DISTURBED.
- ALL GROUND SURFACES SHALL BE EVENLY GRADED WITHOUT PONDING AREAS AND WITHOUT LOW POINTS EXCEPT WHERE APPROVED SWALE OR CATCH BASIN OUTLETS ARE PROVIDED.
- 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.
- ALL DISTURBED AREAS OUTSIDE PROPOSED GRADING LIMITS TO BE RESTORED TO ORIGINAL ELEVATIONS AND CONDITIONS UNLESS OTHERWISE SPECIFIED. ALL RESTORATION SHALL BE COMPLETED WITH THE GEOTECHNICAL REQUIREMENTS FOR BACKFILL AND COMPACTION.
- ABUTTING PROPERTY GRADES TO BE MATCHED UNLESS OTHERWISE SHOWN.
- CONTRACTOR SHALL 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.
- REMOVE FROM SITE ALL EXCESS EXCAVATED MATERIAL UNLESS OTHERWISE DIRECTED FROM THE ENGINEER. EXCAVATE AND REMOVE ALL ORGANIC MATERIAL AND DEBRIS LOCATED WITHIN THE PROPOSED BUILDING, PARKING AND ROADWAY LOCATIONS.
- AT PROPOSED UTILITY CONNECTION POINTS AND CROSSINGS (I.E. STORM SEWER, SANITARY SEWER, WATER, ETC.) THE CONTRACTOR SHALL DETERMINE THE PRECISE LOCATION AND DEPTH OF EXISTING UTILITIES AND REPORT ANY DISCREPANCIES OR CONFLICTS TO THE ENGINEER BEFORE COMMENCING WORK.
- CONTRACTOR TO OBTAIN POST-CONSTRUCTION TOPOGRAPHIC SURVEY, COMPLETED BY OLS OR F.G.M.S. CONFIRMING COMPLIANCE WITH DESIGN GRADING AND SERVICING. SURVEY IS TO INCLUDE LOCATION AND INVERTS FOR BURIED UTILITIES.
- ABIDE BY RECOMMENDATIONS OF GEOTECHNICAL REPORT. REPORT ANY VARIATIONS IN OBSERVED CONDITIONS FROM THOSE INCLUDED IN REPORT.
- REPORT REFERENCES
 - STORMWATER MANAGEMENT REPORT, PREPARED BY WSP CANADA INC, PROJ. NO. 211-07007-00, JULY 23, 2021
 - GEOTECHNICAL INVESTIGATION REPORT, PREPARED BY PATERSON GROUP, REPORT NO. PG5721-1, APRIL 26, 2021

NOTES: WATERMAIN

- ALL WATERMAIN AND WATERMAIN APPURTENANCES, MATERIALS, CONSTRUCTION AND TESTING METHODS SHALL CONFORM TO THE CURRENT CITY OF OTTAWA AND MINISTRY OF ENVIRONMENT STANDARDS AND SPECIFICATIONS.
- ALL WATERMAIN 300mm DIAMETER AND SMALLER TO BE POLY VINYL CHLORIDE (PVC) CLASS 150 DR 18 MEETING AWWA SPECIFICATION C900.
- ALL WATERMAIN TO BE INSTALLED AT MINIMUM COVER OF 2.4m BELOW FINISHED GRADE. WHERE WATERMANS CROSS OVER OTHER UTILITIES, A MINIMUM 0.30m CLEARANCE SHALL BE MAINTAINED; WHERE WATERMANS CROSS UNDER OTHER UTILITIES, A MINIMUM 0.50m CLEARANCE SHALL BE MAINTAINED. WHERE THE MINIMUM SEPARATION CANNOT BE ACHIEVED, THE WATERMAIN SHALL BE INSTALLED AS PER CITY OF OTTAWA STANDARDS W25 AND W25.2. WHERE 2.4m MINIMUM DEPTH CANNOT BE ACHIEVED, THERMAL INSULATION SHALL BE PROVIDED AS PER CITY OF OTTAWA STANDARD W22. WHERE A WATERMAIN IS IN CLOSE PROXIMITY TO AN OPEN STRUCTURE, THERMAL INSULATION SHALL BE PROVIDED AS PER CITY OF OTTAWA STANDARD W23.
- CONCRETE THRUST BLOCKS AND MECHANICAL RESTRAINTS ARE TO BE INSTALLED AT ALL TEES, BENDS, HYDRANTS, REDUCERS, ENDS OF MAINS AND CONNECTIONS 100mm AND LARGER, IN ACCORDANCE WITH CITY OF OTTAWA STANDARDS W23.3 & W25.4.
- CATHODIC PROTECTION REQUIRED FOR ALL IRON FITTINGS AS PER CITY OF OTTAWA STANDARD W40 & W42.
- ALL VALVES AND VALVE BOXES AND CHAMBERS, HYDRANTS, AND HYDRANT VALVES AND ASSEMBLES SHALL BE INSTALLED AS PER CITY OF OTTAWA STANDARD
- FIRE HYDRANT LOCATION AND INSTALLATION AS PER CITY OF OTTAWA STANDARD W18 & W19. CONTRACTOR TO PROVIDE FLOW TEST AND PAINTING OF NEW HYDRANT IN ACCORDANCE WITH CITY STANDARDS.
- IF WATER MAIN MUST BE DEFLECTED TO MEET ALIGNMENT, ENSURE THAT THE AMOUNT OF DEFLECTION USED IS LESS THAN HALF THAT RECOMMENDED BY THE MANUFACTURER.

NOTES: SANITARY SEWER AND MANHOLES

- ALL SANITARY SEWER, SANITARY SEWER APPURTENANCES AND CONSTRUCTION METHODS SHALL CONFORM TO THE CURRENT CITY OF OTTAWA STANDARDS AND SPECIFICATIONS. PROVIDE CCTV INSPECTION REPORTS FOR ALL NEW SANITARY PIPING. PROVIDE DYE TESTING FOR NEW SERVICES.
- SANITARY SEWER PIPE SIZE 150mm DIAMETER AND GREATER TO BE PVC SDR-35 (UNLESS SPECIFIED OTHERWISE) WITH RUBBER GASKET TYPE JOINTS IN CONFORMANCE WITH CSA B-182.2,3,4.
- SEWER BEDDING AS PER CITY OF OTTAWA DETAIL S6.
- MAINTENANCE HOLE BENCHING AND PIPE OPENING ALTERNATIVES AS PER THE OPSD 701.021
- ANY SANITARY SEWER WITH LESS THAN 2.5m COVER REQUIRES THERMAL INSULATION AS PER CITY OF OTTAWA STANDARD W22, OR APPROVED BY THE ENGINEER.

NOTES: STORM SEWERS AND STRUCTURES

- ALL STORM SEWER MATERIALS AND CONSTRUCTION METHODS SHALL CONFORM TO THE CURRENT CITY OF OTTAWA STANDARDS AND SPECIFICATIONS. PROVIDE CCTV INSPECTION REPORTS FOR ALL NEW STORM SEWERS, SERVICES AND CB LEADS.
- STORM SEWERS 450mm DIAMETER AND SMALLER SHALL BE PVC SDR-35, WITH RUBBER GASKET PER CSA A-257.3.
- SEWER BEDDING AS PER CITY OF OTTAWA DETAIL S6.
- ALL STORM MANHOLES 1200mm IN DIAMETER TO BE AS PER OPSD 701.01. FRAME AND COVER TO BE AS PER CITY OF OTTAWA STANDARD S25 AND S24.1.
- ANY NEW OR EXISTING STORM SEWER WITH LESS THAN 2.0m COVER REQUIRES THERMAL INSULATION AS PER CITY OF OTTAWA STANDARD W22, OR APPROVED BY THE ENGINEER.
- CB IN LANDSCAPE AREAS SHALL BE AS PER CITY OF OTTAWA STANDARD S31.
- ALL CATCHBASIN LEADS TO BE MINIMUM 200mm DIAMETER AT MINIMUM 1.0% SLOPE UNLESS OTHERWISE SPECIFIED.
- STORM CATCHBASINS AS PER OPSD 705.010 AND FRAME/COVER AS PER CITY STANDARD DRAWINGS S19. STORM CBM'S AS INDICATED IN TABLE WITH SUMP AND FRAME/COVER AS PER OPSD 401.010 TYPE B. SANITARY MHS AS PER OPSD 701.010 TYPE A. ADJUSTMENT SECTIONS SHALL BE AS PER OPSD 704.010.
- INSTALLATION OF FLOW CONTROL ICDS TO BE VERIFIED BY QUALITY VERIFICATION ENGINEER RETAINED BY CONTRACTOR.
- BACKWATER VALVES FOR BUILDING SERVICES ARE TO BE PROVIDED AS PER CITY OF OTTAWA STANDARD S14.1 AND S14.2.

NOTES: PARKING LOT AND WORK IN PUBLIC RIGHTS OF WAY

- CONTRACTOR TO REINSTATE ROAD CUTS AS PER CITY OF OTTAWA DETAIL R10.
- CONTRACTOR TO PREPARE SUBGRADE, INCLUDING PROFFROLLING, TO THE SATISFACTION OF THE GEOTECHNICAL CONSULTANT PRIOR TO THE COMMENCEMENT OF PLACEMENT OF GRANULAR B MATERIAL.
- FILL TO BE PLACED AND COMPACTED PER THE GEOTECHNICAL REPORT REQUIREMENTS.
- CONTRACTOR TO SUPPLY, PLACE AND COMPACT GRANULAR B MATERIAL IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL CONSULTANT. CONTRACTOR TO PROVIDE CONSULTANT WITH SAMPLES OF GRANULAR B MATERIAL FOR TESTING AND CERTIFICATION FROM THE GEOTECHNICAL CONSULTANT THAT THE MATERIAL MEETS THE GRADATION REQUIREMENTS SPECIFIED IN THE GEOTECHNICAL REPORT.
- GRANULAR A MATERIAL TO BE PLACED ONLY UPON APPROVAL BY THE GEOTECHNICAL CONSULTANT OF GRANULAR B PLACEMENT.
- CONTRACTOR TO SUPPLY, PLACE AND COMPACT GRANULAR A MATERIAL IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL CONSULTANT. CONTRACTOR TO PROVIDE CONSULTANT WITH SAMPLES OF GRANULAR A MATERIAL FOR TESTING AND CERTIFICATION FROM THE GEOTECHNICAL CONSULTANT THAT THE MATERIAL MEETS THE GRADATION REQUIREMENTS SPECIFIED IN THE GEOTECHNICAL REPORT.
- ASPHALT MATERIAL TO BE PLACED ONLY UPON APPROVAL BY THE GEOTECHNICAL CONSULTANT OF GRANULAR A PLACEMENT.
- CONTRACTOR TO SUPPLY, PLACE AND COMPACT ASPHALT MATERIAL IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL CONSULTANT. CONTRACTOR TO PROVIDE CONSULTANT WITH SAMPLES OF ASPHALT MATERIAL FOR TESTING AND CERTIFICATION FROM THE GEOTECHNICAL CONSULTANT THAT THE MATERIAL MEETS THE REQUIREMENTS SPECIFIED IN THE GEOTECHNICAL REPORT.
- CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING LINE AND GRADE IN ACCORDANCE WITH THE PLANS, AND FOR PROVIDING THE CONSULTANT WITH VERIFICATION PRIOR TO PLACEMENT.
- ALL EXCESS MATERIAL TO BE HAULED OFFSITE AND DISPOSED OF AT AN APPROVED DUMP SITE. SHOULD THE CONTRACTOR DISCOVER ANY HAZARDOUS MATERIAL, CONTRACTOR IS TO NOTIFY CONSULTANT, CONSULTANT TO DETERMINE APPROPRIATE DISPOSAL METHOD/LOCATION.
- PAVEMENT STRUCTURE (MATERIAL TYPES AND THICKNESS) FOR HEAVY DUTY AND LIGHT DUTY AREAS TO BE AS SPECIFIED IN THE GEOTECHNICAL REPORT AND SHOWN ON THE PLANS.

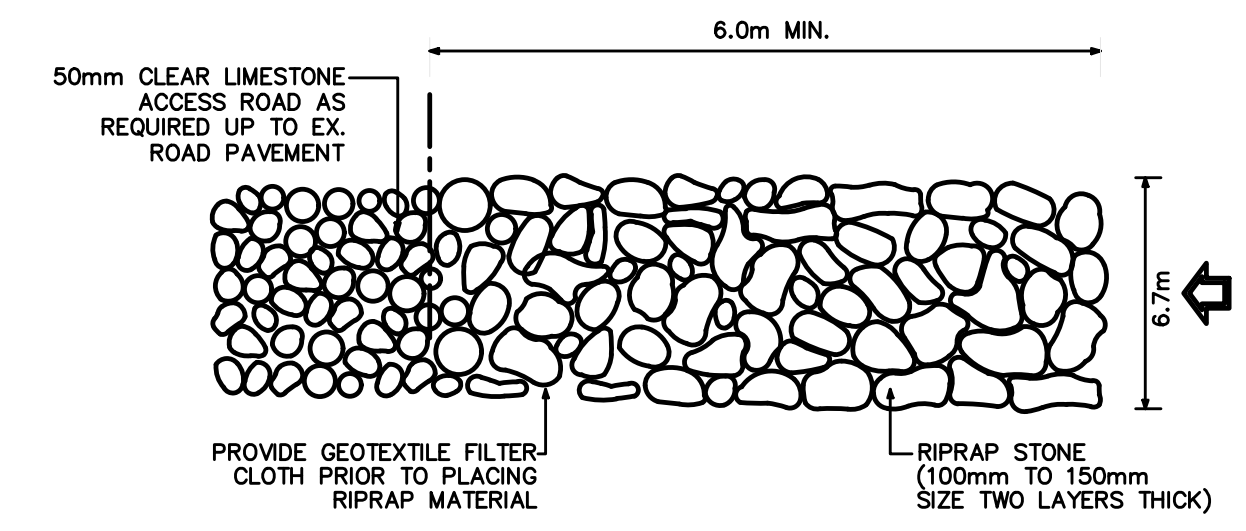
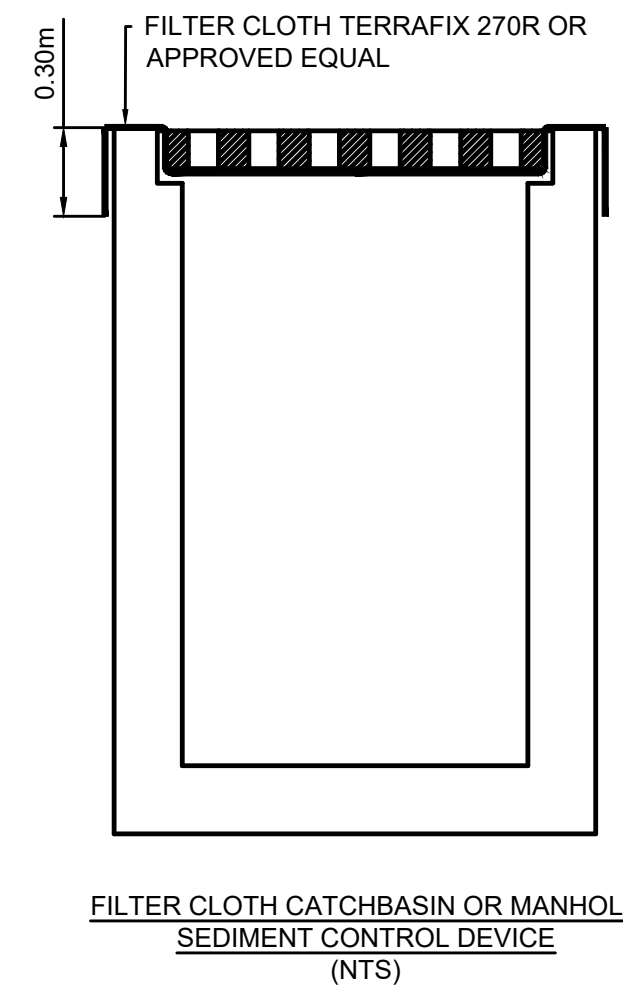
NOTES: EROSION AND SEDIMENT CONTROL

- ** CONTRACTOR IS RESPONSIBLE FOR ALL INSTALLATION, MONITORING, REPAIR AND REMOVAL OF ALL EROSION AND SEDIMENT CONTROL FEATURES, AND MEETING ASSOCIATED LEED REQUIREMENT **
- PRIOR TO START OF CONSTRUCTION:
 - INSTALL SILT FENCE IN LOCATION SHOWN ON DWG C08 AND C09.
 - INSTALL FILTER FABRIC OR SILT SACK FILTERS IN ALL THE CATCHBASINS AND MANHOLES TO REMAIN DURING CONSTRUCTION WITHIN THE SITE (SEE TYPICAL DETAILS).
 - INSPECT MEASURES IMMEDIATELY AFTER INSTALLATION.
 - DURING CONSTRUCTION:
 - MINIMIZE THE EXTENT OF DISTURBED AREAS AND THE DURATION OF EXPOSURE AND IMPACTS TO EXISTING GRADING.
 - PROTECT DISTURBED AREAS FROM OVERLAND FLOW BY PROVIDING TEMPORARY SWALES TO THE SATISFACTION OF THE FIELD ENGINEER. TIE-IN TEMPORARY SWALE TO EXISTING CBS AS REQUIRED.
 - PROVIDE TEMPORARY COVER SUCH AS SEEDING OR MULCHING IF DISTURBED AREA WILL NOT BE REHABILITATED WITHIN 30 DAYS.
 - INSPECT SILT FENCES, FILTER FABRIC FILTERS AND CATCH BASIN SUMPS WEEKLY AND WITHIN 24 HOURS AFTER A STORM EVENT. CLEAN AND REPAIR WHEN NECESSARY.
 - DRAWING 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 BY SEEDING TOPSOIL PILES AND OTHER AREAS TEMPORARILY (PROVIDE WATERING AS REQUIRED AND TO THE SATISFACTION OF THE ENGINEER).
 - NO ALTERNATE METHODS OF EROSION PROTECTION SHALL BE PERMITTED UNLESS APPROVED BY THE FIELD ENGINEER.
 - CITY ROADWAY AND SIDEWALK TO BE CLEANED OF ALL SEDIMENT FROM VEHICULAR TRACKING AS REQUIRED.
 - DURING WET CONDITIONS, TIRES OF ALL VEHICLES/EQUIPMENT LEAVING THE SITE ARE TO BE SCRAPPED.
 - ANY 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 ADJUTING PROPERTIES OR PUBLIC STREETS DURING CONSTRUCTION AND PROCEED IMMEDIATELY TO CLEAN UP ANY AREAS SO AFFECTED.
 - ALL EROSION CONTROL STRUCTURE TO REMAIN IN PLACE UNTIL ALL DISTURBED GROUND SURFACES HAVE BEEN STABILIZED EITHER BY PAVING OR RESTORATION OF VEGETATIVE GROUND COVER.
 - ALL EROSION CONTROL MEASURES SHALL BE INSPECTED IMMEDIATELY FOLLOWING A RAINFALL EVENT.
 - THE CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES, TO PROVIDE FOR PROTECTION OF THE AREA DRAINAGE SYSTEM AND THE RECEIVING WATERCOURSE. DURING CONSTRUCTION ACTIVITIES, THE CONTRACTOR ACKNOWLEDGES THAT FAILURE TO IMPLEMENT APPROPRIATE EROSION AND SEDIMENT CONTROL MEASURES MAY BE SUBJECT TO PENALTIES IMPOSED BY ANY APPLICABLE REGULATORY AGENCY.

PAVEMENT STRUCTURE - CAR ONLY PARKING AREAS		
COURSE	MATERIAL	THICKNESS
WEAR COURSE	H-3 OR SUPERPAVE 12.5 ASPHALTIC CONCRETE	50 mm
BASE	OPSS GRANULAR 'A' CRUSHED STONE	150 mm
SUBBASE	OPSS GRANULAR 'B' TYPE II	300 mm

RIGID PAVEMENT STRUCTURE		
COURSE	MATERIAL	THICKNESS
WEAR COURSE	CONCRETE SLAB	125 mm
BASE	OPSS GRANULAR 'A' CRUSHED STONE	200 mm

PAVEMENT STRUCTURE - ACCESS LANES AND HEAVY TRUCK PARKING AREAS		
COURSE	MATERIAL	THICKNESS
WEAR COURSE	H-3 OR SUPERPAVE 12.5 ASPHALTIC CONCRETE	40mm
BINDER COURSE	H-4 OR SUPERPAVE 18.0 ASPHALTIC CONCRETE	50mm
BASE	OPSS GRANULAR 'A' CRUSHED STONE	150 mm
SUBBASE	OPSS GRANULAR 'B' TYPE II	400 mm



ALL CONSTRUCTION TRAFFIC TO CROSS MUD MAT WHEN EXITING THE SITE

EXISTING LEGEND:

- EDGE OF PAVEMENT
- CURB
- W — WATERMAIN
- ST — STORM SEWER
- SA — SANITARY SEWER
- GAS — GAS
- UG — UNDERGROUND
- C — CABLE
- X — FENCE
- PROPERTY BOUNDARY
- TBM# SITE TEMPORARY BENCH MARK
- TP # TEST PIT LOCATION
- UP UTILITY POLE
- LS STREET LIGHT
- TRANSFORMER
- CULVERT
- ASPHALT
- BUILDING

PROPOSED LEGEND:

- ALIGNMENT
- EDGE OF PAVEMENT
- CONCRETE BARRIER CURB
- W — WATERMAIN
- WATER SERVICE
- STORM SEWER
- SA — SANITARY SEWER
- SANITARY SERVICE
- JUT JOINT UTILITY TRENCH
- GRADING TOP OF SLOPE
- GRADING BOTTOM OF SLOPE
- STORM MANHOLE
- REAR YARD CATCH BASIN/ CLEAN OUT
- CATCH BASIN MANHOLE
- CATCH BASIN
- SANITARY MANHOLE
- WATERMAIN VALVE
- TWSI
- ▼ BUILDING ENTRANCE
- 105.00 GRADE ELEVATION
- BUILDING
- STORM DRAINAGE BOUNDARY
- ID CONTROLLED
- A C
- ID DENOTES WATERSHED NAME
A DENOTES AREA IN HECTARES
C DENOTES RUNOFF COEFFICIENT

wsp
2011 QUEENSWAY DR
OTTAWA, ONTARIO
CANADA K2B 9K2
T: 613-829-8300
F: 613-829-8299
WWW.WSP.COM

WOODMAN ARCHITECT & ASSOCIATES LTD.
4 BEECHWOOD, SUITE 201, OTTAWA, ONTARIO, CANADA K1L 8L9
TEL: 613 228 9650 • FAX: 613 228 9648 • mail@woodmanarchitect.com

REGISTERED PROFESSIONAL ENGINEER
D. B. YANG
1922/2008
2021-07-23
PROVINCE OF ONTARIO

165177 CANADA INC.
c/o JAY PATEL
22 RUE TASCHEREAU,
GATINEAU QC J8Y 2V4

275 KING EDWARD AVE



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1	2021-07-23	ISSUED FOR SPA	

IS	RE	DATE	DESCRIPTION
PROJECT NO:	211-07007-00	DATE:	JULY 2021
ORIGINAL SCALE:	1:150	IF THIS BAR IS NOT 25mm LONG, ADJUST YOUR PLOTTING SCALE.	
DESIGNED BY:	D.Y.		
DRAWN BY:	J.T.		
CHECKED BY:	D.Y.		
DISCIPLINE:	CIVIL		

TITLE: **NOTES AND LEGEND**

SHEET NUMBER: **C1.0**

SHEET # **1** OF **6**

ISSUE: **0**

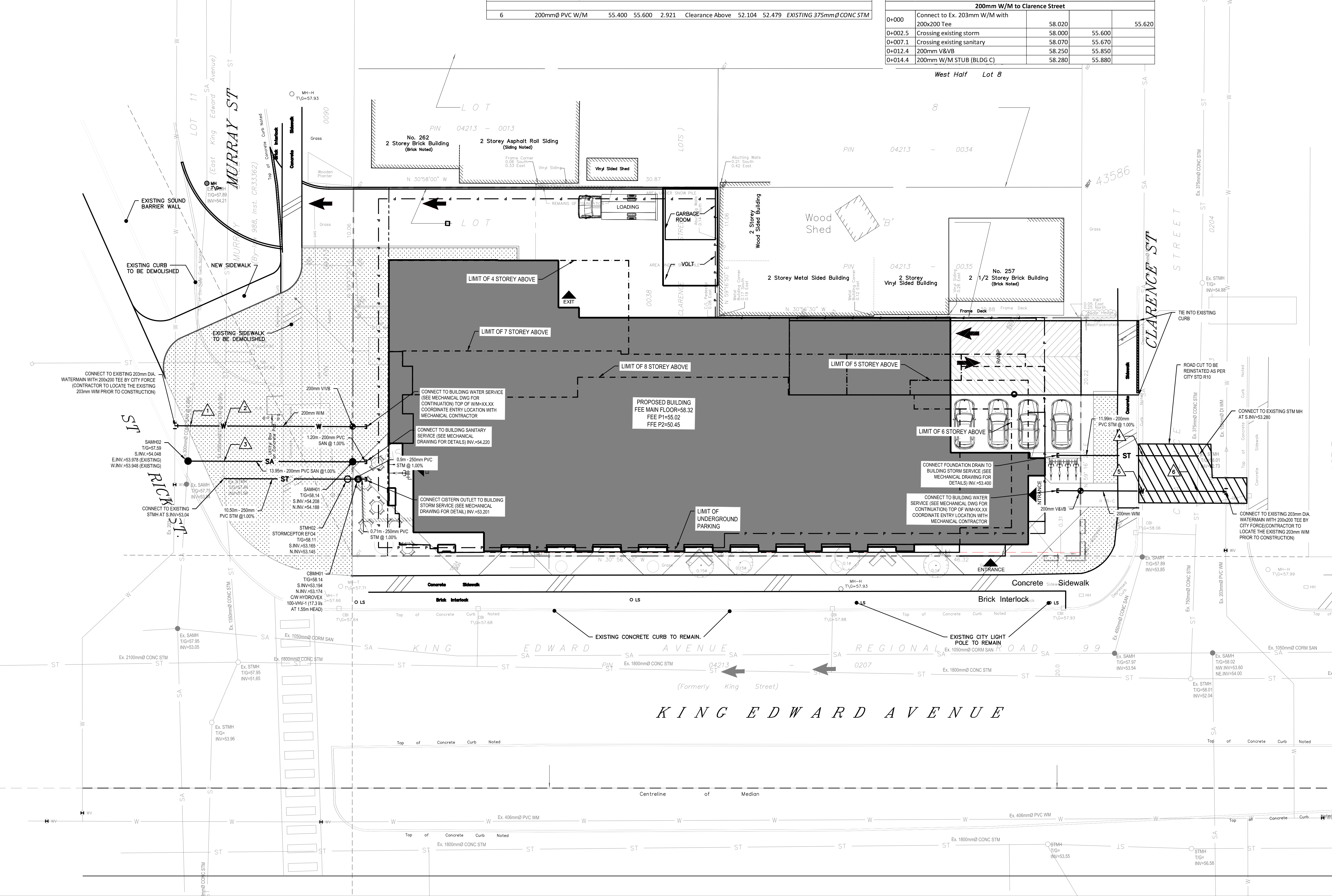
DATE OF: 2021-07-23


STORM STRUCTURE TABLE										
STRUCTURE ID	TOP OF GRATE	INVERT				DESCRIPTION	HEAD (m)	FLOW (l/s)	ICD TYPE	
		INLET	INLET	INLET	OUTLET	SIZE	OPSD	COVER		
CBMH01	58.14	53.194	53.174	53.174	1200mm DIA.	OPSD 701.010	S28.1	1.55	17.3	HYDROVEX 100-VHV-1
STMH02	58.11		53.165	53.145		STORMCEPTOR EFO4				

PIPE CROSSING TABLE										
	Invert	Obvert	Invert	Obvert	Clearance	EXISTING				
1	200mmØ PVC W/M	55.230	55.430	0.940	Clearance Above	53.990	54.290	EXISTING 300mmØ CONC SAN		
2	200mmØ PVC W/M	55.339	55.539	2.332	Clearance Above	51.957	53.007	EXISTING 1050mmØ CONC STM		
3	200mmØ PVC SAN	54.079	54.279	1.083	Clearance Above	51.946	52.996	EXISTING 1050mmØ CONC STM		
4	200mmØ PVC STM	53.327	53.527	0.353	Clearance Under	53.880	54.180	EXISTING 300mmØ CONC SAN		
5	200mmØ PVC W/M	55.470	55.670	1.298	Clearance Above	53.872	54.172	EXISTING 300mmØ CONC SAN		
6	200mmØ PVC W/M	55.400	55.600	2.921	Clearance Above	52.104	52.479	EXISTING 375mmØ CONC STM		

WATERMAIN SCHEDULE				
STATION	DESCRIPTION	FINISHED GRADE	TOP OF WATERMAIN	AS-BUILT WATERMAIN
200mm W/M to Murray Street				
0+000	Connect to Ex. 203mm W/M with 200x200 Tee	57.700		55.300
0+001.3	Crossing existing sanitary	57.830	55.430	
0+004.2	Crossing existing storm	57.940	55.540	
0+015.1	200mm V&VB	58.050	55.650	
0+016.3	200mm W/M STUB (BLDG C)	58.080	55.680	
200mm W/M to Clarence Street				
0+000	Connect to Ex. 203mm W/M with 200x200 Tee	58.020		55.620
0+002.5	Crossing existing storm	58.000	55.600	
0+007.1	Crossing existing sanitary	58.070	55.670	
0+012.4	200mm V&VB	58.250	55.850	
0+014.4	200mm W/M STUB (BLDG C)	58.280	55.880	

SAN STRUCTURE TABLE							
STRUCTURE ID	TOP OF GRATE ELEVATION	INLET	INLET	INLET	OUTLET	DESCRIPTION	COVER
SAMH01	58.14		54.208	54.188	1200mm DIA.	OPSD-701.010	S24
SANMH02	57.59	53.978	54.048	53.948	1200mm DIA.	OPSD-701.010	S24






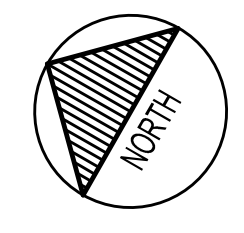
2011 QUEENSWAY DR
OTTAWA, ONTARIO
CANADA K2B 9K2
T: 613-828-2800
F: 613-828-2899
WWW.WSP.COM

WOODMAN ARCHITECT & ASSOCIATES LTD.

4 BEECHWOOD, SUITE 201, OTTAWA, ONTARIO, CANADA K1L 8L9
TEL: 613 228 9650 • FAX: 613 228 9648 • mail@woodmanarchitect.com



REGISTERED PROFESSIONAL ENGINEER
D. B. YANG
1922/2068
2021-07-23
PROVINCE OF ONTARIO



NORTH

CLIENT:

165177 CANADA INC.
c/o JAY PATEL
22 RUE TASCHEREAU,
GATINEAU QC J8Y 2V4

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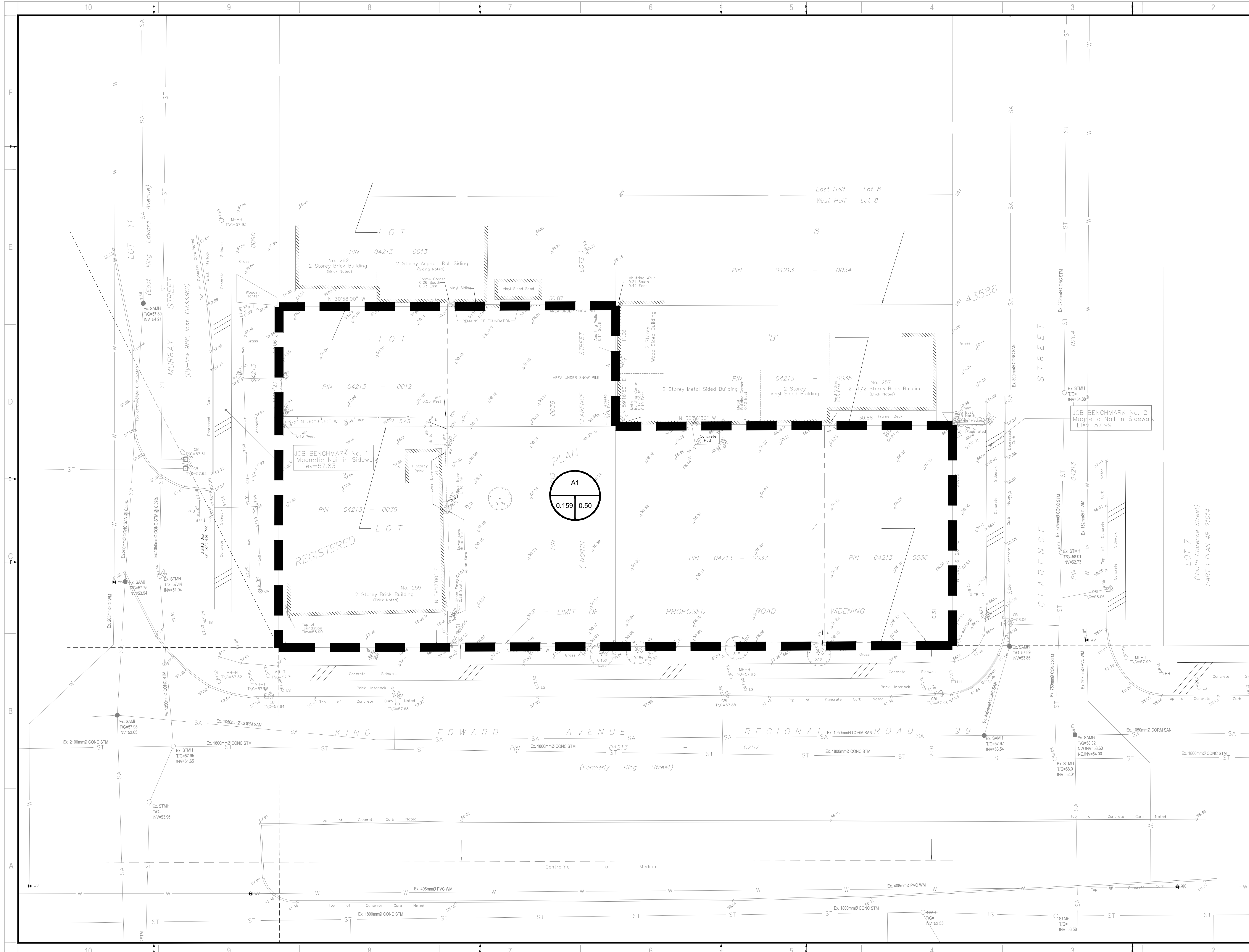
KEY PLAN



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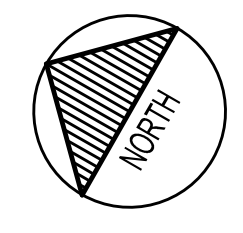
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DESIGNED BY:	J.T.D.Y.	CHECKED BY:	D.Y.
DRAWN BY:	J.T.	DISCIPLINE:	CIVIL
TITLE:	SERVICING PLAN		
SHEET NUMBER:	C3.0		
SHEET #:	3	OF	6
ISSUE:		REV #:	0
DATE OF:	2021-07-23		



2011 QUEENSWAY DR.
OTTAWA, ONTARIO
CANADA K2B 9K2
T: 613-828-8200
F: 613-828-8299
WWW.WSP.COM

**WOODMAN ARCHITECT
& ASSOCIATES LTD.**
4 BEECHWOOD, SUITE 201, OTTAWA, ONTARIO, CANADA K1L 8L9
TEL: 613 228 9650 • FAX: 613 228 9648 • mail@woodmanarchitect.com



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NO.	DATE	DESCRIPTION
1	2021-07-23	ISSUED FOR SPA

IS	RE	DATE	DESCRIPTION
1		2021-07-23	ISSUED FOR SPA

PROJECT NO: 211-07007-00
ORIGINAL SCALE: 1:150
DESIGNED BY: J.T.D.Y.
DRAWN BY: J.T.
CHECKED BY: D.Y.
DISCIPLINE:

TITLE:
PRE-DEVELOPMENT DRAINAGE AREA PLAN

SHEET NUMBER:
C4.0

SHEET #:
4 OF 6

ISSUE: DATE: 2021-07-23

REV #:
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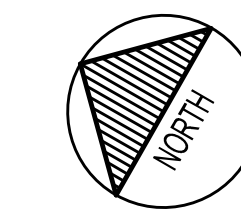
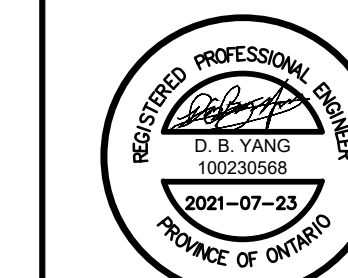
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2011 QUEENVIEW DR.
OTTAWA, ONTARIO
CANADA K2B 9K2
T: 613-828-2800
F: 613-828-8299
WWW.WSP.COM

**WOODMAN ARCHITECT
& ASSOCIATES LTD.**

4 BEECHWOOD, SUITE 201, OTTAWA, ONTARIO, CANADA K1L 8L9
TEL: 613 228 9850 • FAX: 613 228 9848 • mail@woodmanarchitect.com



CLIENT:
**165177 CANADA INC.
c/o JAY PATEL
22 RUE TASCHEREAU,
GATINEAU QC J8Y 2V4**

PROJECT:
275 KING EDWARD AVE



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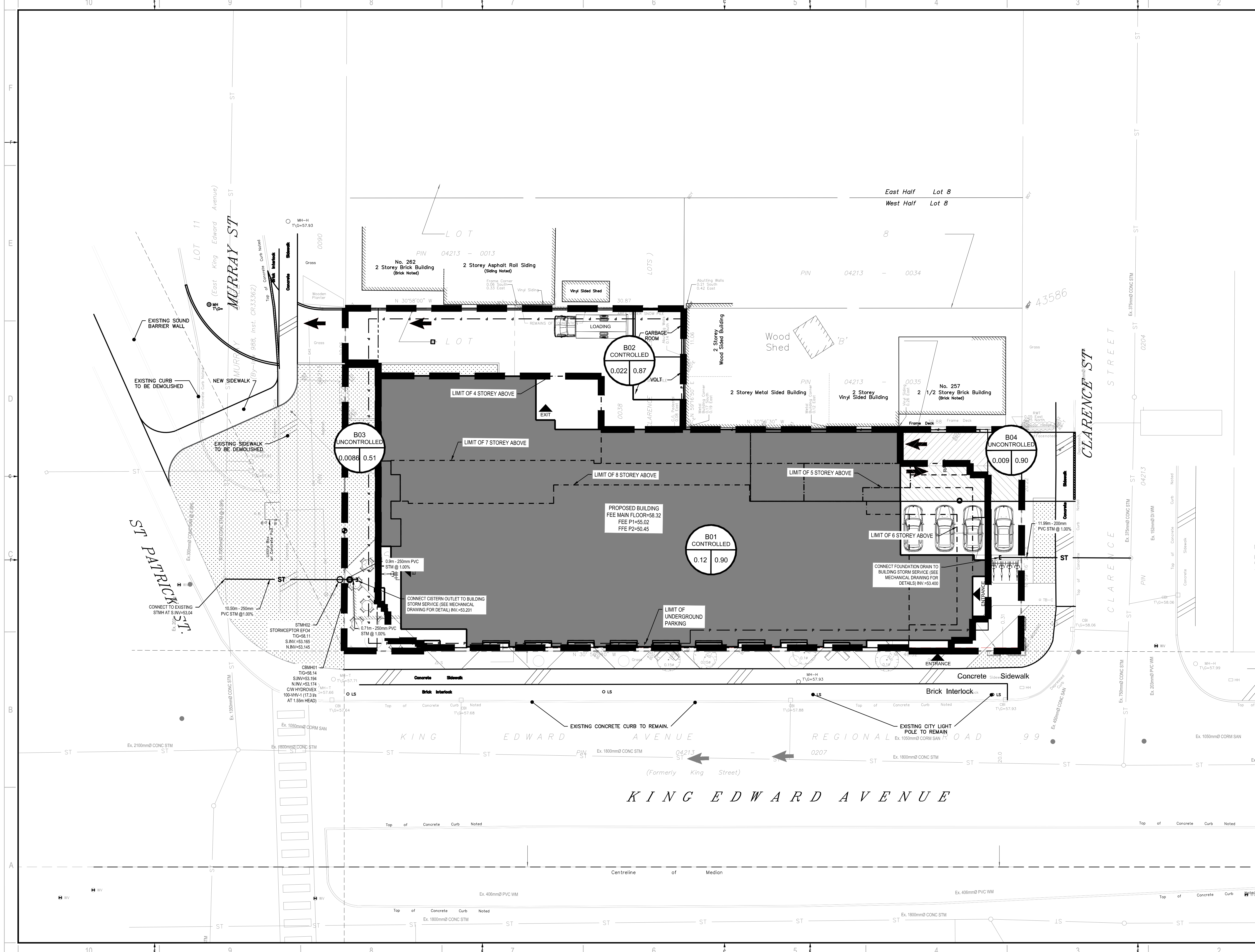
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PROJECT NO:	211-07007-00	DATE:	JULY 2021
ORIGINAL SCALE:	1:150	IF THIS BAR IS NOT 25mm LONG, ADJUST YOUR PLOTTING SCALE.	
DESIGNED BY:	J.T.D.Y.		
DRAWN BY:	J.T.		
CHECKED BY:	D.Y.		

DISCIPLINE: **CIVIL**

TITLE: **POST-DEVELOPMENT DRAINAGE AREA PLAN**

SHEET NUMBER: **C4.1**
SHEET # **5** OF **6**
ISSUE: **0**
DATE OF: 2021-07-23



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