

**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 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. ALL INFORMATION SHALL BE CONFIRMED PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- REFER TO ARCHITECTS PLANS FOR BUILDING DIMENSIONS, ELEVATIONS, 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 STANTEC GEOMATICS LTD. DATED JUNE 18, 2024. 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 DRAIN 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. EXISTING PARKING LOT SHALL BE RE-ASPHALTED AT EXISTING GRADES EXCEPT AS NOTED TO EVEN OUT GRADES. ALL RESTORATION SHALL BE COMPLETED WITH THE GEOTECHNICAL REQUIREMENTS FOR BACKFILL AND COMPACTION.
- ABUTTING PROPERTY GRADES TO BE MATCHED.
- CONTRACTOR SHALL OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND APPROVALS FROM THE MUNICIPAL AUTHORITIES PRIOR TO COMMENCING CONSTRUCTION, INCLUDING WATER PERMIT AND ROAD CUT PERMIT.
- 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.
- PRIOR TO CONSTRUCTION, A GEOTECHNICAL ENGINEER REGISTERED IN THE PROVINCE OF ONTARIO IS TO INSPECT ALL SUB-SURFACES FOR FOOTINGS, SERVICES AND PAVEMENT STRUCTURES.
- CONTRACTOR TO OBTAIN POST-CONSTRUCTION TOPOGRAPHIC SURVEY PERFORMED BY CERTIFIED OLS OR P.ENG. CONFIRMING COMPLIANCE WITH DESIGN GRADING AND SERVICING. SURVEY IS TO INCLUDE LOCATION AND INVERTS FOR BURIED UTILITIES.
- PROVIDE CCTV INSPECTION REPORT FOR ALL SEWERS AND CATCHBASIN LEADS 200MM DIAMETER AND LARGER. REPEAT CCTV INSPECTION FOLLOWING RECTIFICATION OF ANY DEFICIENCIES.
- REPORT REFERENCES
  - GEOTECHNICAL INVESTIGATION - PROPOSED EVENT CENTRE LANSDOWNE PARK REDEVELOPMENT, REPORT NO. PG6655-1, MAY 2024, BY PATTERSON GROUP.
  - FUNCTIONAL SERVICING AND STORMWATER MANAGEMENT REPORT FOR LANSDOWNE LIVE OTTAWA SPORT AND ENTERTAINMENT GROUP, PROJECT NO. 09-378, JANUARY 2012, BY DSEL.
  - FUNCTIONAL SERVICING AND STORMWATER MANAGEMENT STUDY FOR LANSDOWNE PARK REDEVELOPMENT 2.0, PROJECT NO. CA000298.1692, SEPTEMBER 2023, BY WSP.
  - STORMWATER MANAGEMENT DESIGN REPORT FOR LANSDOWNE URBAN PARK, FEBRUARY 2012, BY STANTEC CONSULTING LTD.
  - SERVICING REPORT FOR LANSDOWNE PARK EVENT CENTRE, REPORT NO. CA0033920.1056, JANUARY 2025, PREPARED BY WSP.
  - STORMWATER MANAGEMENT DESIGN REPORT FOR LANSDOWNE PARK EVENT CENTRE, REPORT NO. CA0033920.1056 JANUARY 2025, PREPARED BY WSP.

**PARKING LOT AND WORK IN PUBLIC RIGHTS OF WAY**

- CONTRACTOR TO REINSTATE ROAD CUTS AS PER CITY OF OTTAWA DETAIL R10.
- GEOTECHNICAL INVESTIGATION - PROPOSED EVENT CENTRE LANSDOWNE PARK REDEVELOPMENT, REPORT NO. PG6655-1, MAY 2024, BY PATTERSON GROUP.
- CONTRACTOR TO PREPARE SUBGRADE, INCLUDING PROOFROLLING, 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) TO BE AS SPECIFIED IN THE GEOTECHNICAL REPORT.

**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.
- STORM SEWER LARGER THAN 450mm SHALL BE REINFORCED CONCRETE CLASS 1000.
- SEWER BEDDING AS PER CITY OF OTTAWA DETAIL S6.
- ALL STORM MANHOLES TO BE AS PER STORM STRUCTURE TABLE.
- 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.
- 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 CBMH'S AS INDICATED IN TABLE WITH SUMP. ADJUSTMENT SECTIONS SHALL BE AS PER OPSD 704.010.
- INSTALLATION OF FLOW CONTROL ICDS TO BE VERIFIED BY QUALITY VERIFICATION ENGINEER RETAINED BY CONTRACTOR.
- PROVIDE BACKWATER VALVE ON FOUNDATION DRAIN, STORM DISCHARGE, AND OVERFLOW DISCHARGE PER S14
- ALL CATCHBASINS EXCLUDING LANDSCAPE CATCHBASINS TO HAVE 150 MMØ PERFORATED PIPE FOR 3.0M ON ALL AVAILABLE SIDES AT AN ELEVATION OF 300mm BELOW SUBGRADE LEVEL AS PER CITY OF OTTAWA STANDARD DRAWING R1'

**SANITARY SEWER AND STRUCTURES**

- 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.
- 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.
- ALL SANITARY 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.
- MAINTENANCE HOLE BENCHING AND PIPE OPENING ALTERNATIVES AS PER THE OPSD 701.021
- ANY SANITARY SEWER WITH LESS THAN 2.0m COVER REQUIRES THERMAL INSULATION AS PER CITY OF OTTAWA STANDARD W22, OR APPROVED BY THE ENGINEER.
- PROVIDE BACKWATER VALVE FOR BUILDING SANITARY SERVICES PER S14.1

**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 D900.
- 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 W25.3 & 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.

**Table 2 - Recommended Light Duty Asphalt Pavement Structure - Car Only Parking Areas**

Thickness (mm)	Material Description
50	<b>Wear Course</b> - HL-3 or Superpave 12.5 Asphaltic Concrete
150	<b>Base</b> - OPSS Granular A Crushed Stone
300	<b>SUBBASE</b> - OPSS Granular B Type II
<b>SUBGRADE</b> - Either approved fill, in-situ, or OPSS Granular B Type I or II material placed on in-situ soil or fill.	

**Table 3 - Recommended Asphalt Pavement Structure - Access Lanes and Heavy Loading Parking Areas**

Thickness (mm)	Material Description
40	<b>Wear Course</b> - Superpave 12.5 Asphaltic Concrete
50	<b>Binder Course</b> - Superpave 19.0 Asphaltic Concrete
150	<b>Base</b> - OPSS Granular A Crushed Stone
300	<b>SUBBASE</b> - OPSS Granular B Type II
<b>SUBGRADE</b> - Either approved fill, in-situ, or OPSS Granular B Type I or II material placed on in-situ soil or fill	

**EROSION AND SEDIMENT CONTROL**

- \*\* CONTRACTOR IS RESPONSIBLE FOR ALL INSTALLATION, MONITORING, REPAIR AND REMOVAL OF ALL EROSION AND SEDIMENT CONTROL FEATURES. \*\*
- PRIOR TO START OF CONSTRUCTION:
    - INSTALL SILT FENCE IN LOCATION SHOWN.
    - INSTALL SILT SACK FILTERS IN ALL THE CATCHBASINS AND MANHOLES TO REMAIN DURING CONSTRUCTION WITHIN THE SITE.
    - INSPECT MEASURES IMMEDIATELY AFTER INSTALLATION.
    - INSTALL MUD MAT AT CONSTRUCTION ENTRANCES.
  - DURING CONSTRUCTION:
    - MINIMIZE THE EXTENT OF DISTURBED AREAS AND THE DURATION OF EXPOSURE AND IMPACTS TO EXISTING GRADING.
    - PERIMETER VEGETATION TO REMAIN IN PLACE UNTIL PERMANENT STORM WATER MANAGEMENT IS IN PLACE. OTHERWISE, IMMEDIATELY INSTALL SILT FENCE WHEN THE EXISTING SITE IS DISTURBED AT THE PERIMETER.
    - 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.
    - DOWNSTREAM STORM INFRASTRUCTURE SHALL BE PROTECTED FROM UNFILTERED RUNOFF DURING ON-SITE STORM INFRASTRUCTURE DEMOLITION.
    - 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 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 ABUTTING 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.
    - 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.

**EXISTING LEGEND:**

- EXISTING CURB
- EXISTING BOTTOM OF SLOPE
- EXISTING TOP OF SLOPE
- EXISTING WATERMAIN
- EXISTING STORM SEWER
- EXISTING SANITARY SEWER
- EXISTING SWALE
- EXISTING PERFORATED DRAIN
- EXISTING FENCE
- SITE TEMPORARY CONTROL POINT
- EXISTING SANITARY MANHOLE
- EXISTING FIRE HYDRANT
- EXISTING WATER VALVE
- EXISTING ELEVATION
- EXISTING TREES TO REMAIN
- EXISTING CATCHBASIN
- EXISTING CATCHBASIN MANHOLE
- EXISTING STORM MANHOLE

**REMOVALS LEGEND:**

- CURB REMOVAL
- STORM REMOVAL
- SA STORM REMOVAL
- W WATERMAIN REMOVAL
- RET RETAINING WALL REMOVAL
- SUB SUB DRAIN REMOVAL
- FULL DEPTH ASPHALT REMOVAL
- GREEN AREA/ INTERLOCK AREA REMOVAL
- CONCRETE SIDEWALK REMOVAL
- GRAVEL ROAD REMOVAL
- RAMP REMOVAL
- CATCH BASIN REMOVAL
- STORM MANHOLE REMOVAL
- SANITARY MANHOLE REMOVAL
- FIRE HYDRANT REMOVAL
- EXISTING TREES REMOVAL
- BOLLAR REMOVAL
- LIGHT STAND REMOVAL

**PROPOSED LEGEND:**

- EXISTING BOUNDARY
- W NEW WATERMAIN
- NEW STORM SEWER
- SA NEW HDPE SUBDRAIN
- SA NEW SANITARY SEWER
- HIGH POINT
- 100 YR 100 YEAR PONDING LIMIT
- NEW STORM CATCH BASIN MANHOLE
- NEW STORM MANHOLE
- NEW CATCH BASIN DITCH INLET
- NEW SANITARY MANHOLE
- NEW WATERMAIN VALVE
- NEW WATERMAIN CONNECTION
- NEW WATERMAIN 45° BEND
- NEW SERVICING CAP
- PROPOSED ELEVATION
- PROPOSED SURFACE SLOPE
- OVER FLOW DIRECTION
- PROPOSED TRENCH DRAIN
- PROPOSED INTERLOCK
- PROPOSED ASPHALT PAVEMENT
- PROPOSED INSULATION
- PROPOSED TREES

**ESC LEGEND:**

- LIGHT DUTY SILT FENCE (OPSD 219.110)
- FILTER CLOTH PROTECTION
- MUD MAT

**DRAINAGE AREA LEGEND:**

- DRAINAGE AREA SYMBOL
- DRAINAGE AREA BOUNDARY



**ENTUITIVE**  
135 LAURIER AVE WEST, SUITE 413  
OTTAWA, ON K1P 5J2  
(343) 308-9274

**TAMP**  
200 KINGS ST. WEST, SUITE 310  
TORONTO, ON M5H 3T4  
(416) 499-8000  
MECH. PLUMB. FIRE PROTECTION ENGINEER

**MULVEY & BANANI**  
90 SHEPPARD AVE EAST, SUITE 500  
TORONTO, ON M2N 3A  
(416) 751-2520  
ELEC. LIGHTING ENGINEER

**S2O**  
530 N. WOOD STREET #C  
CHICAGO, IL 60622  
(224) 717-1999  
FOOD AND BEVERAGE

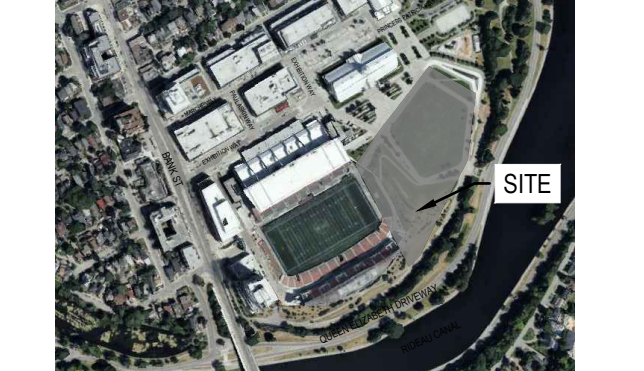
**CSW**  
319 MCRAE AVENUE, SUITE 502  
OTTAWA, ONTARIO K1Z 0B9  
(613) 729-4536  
LANDSCAPE ARCHITECT

**wsp**  
2011 QUEENSVIEW DR.  
OTTAWA, ONTARIO K2B 8K2  
(613) 829-2800  
CIVIL ENGINEER

NO.	DESCRIPTION	DATE
5	REVISED AS PER CITY COMMENTS	2025-01-15
4	ISSUED FOR COORDINATION	2024-12-20
3	ISSUED FOR 90% CD - CLASS B ESTIMATE	2024-11-15
2	REVISED AS PER CITY COMMENTS	2024-09-13
1	ISSUED FOR SPA	2024-08-07

**REVISIONS/ ISSUES**

CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND REPORT ANY OMISSIONS OR DISCREPANCIES TO THE ARCHITECT BEFORE PROCEEDING WITH THE WORK. **DO NOT SCALE THE DRAWINGS**



DRAWN: J.T  
DATE: 2025/01/15  
CHECKED: W.Y

**LANSDOWNE EVENT CENTRE**  
945 & 1015 BANK STREET

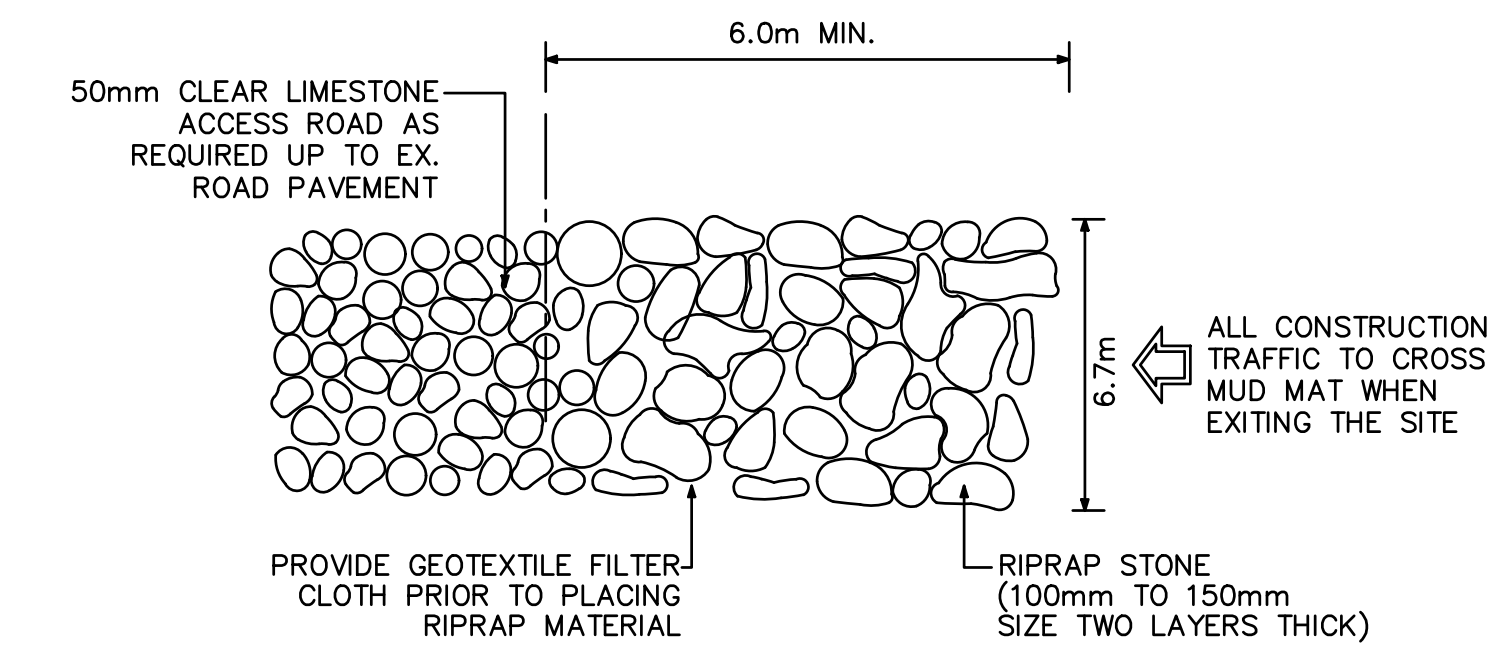
**NOTES AND DETAILS**

SCALE: AS SHOWN  
PROJ. NO: CA0033920.1056  
DWG. NO: C01



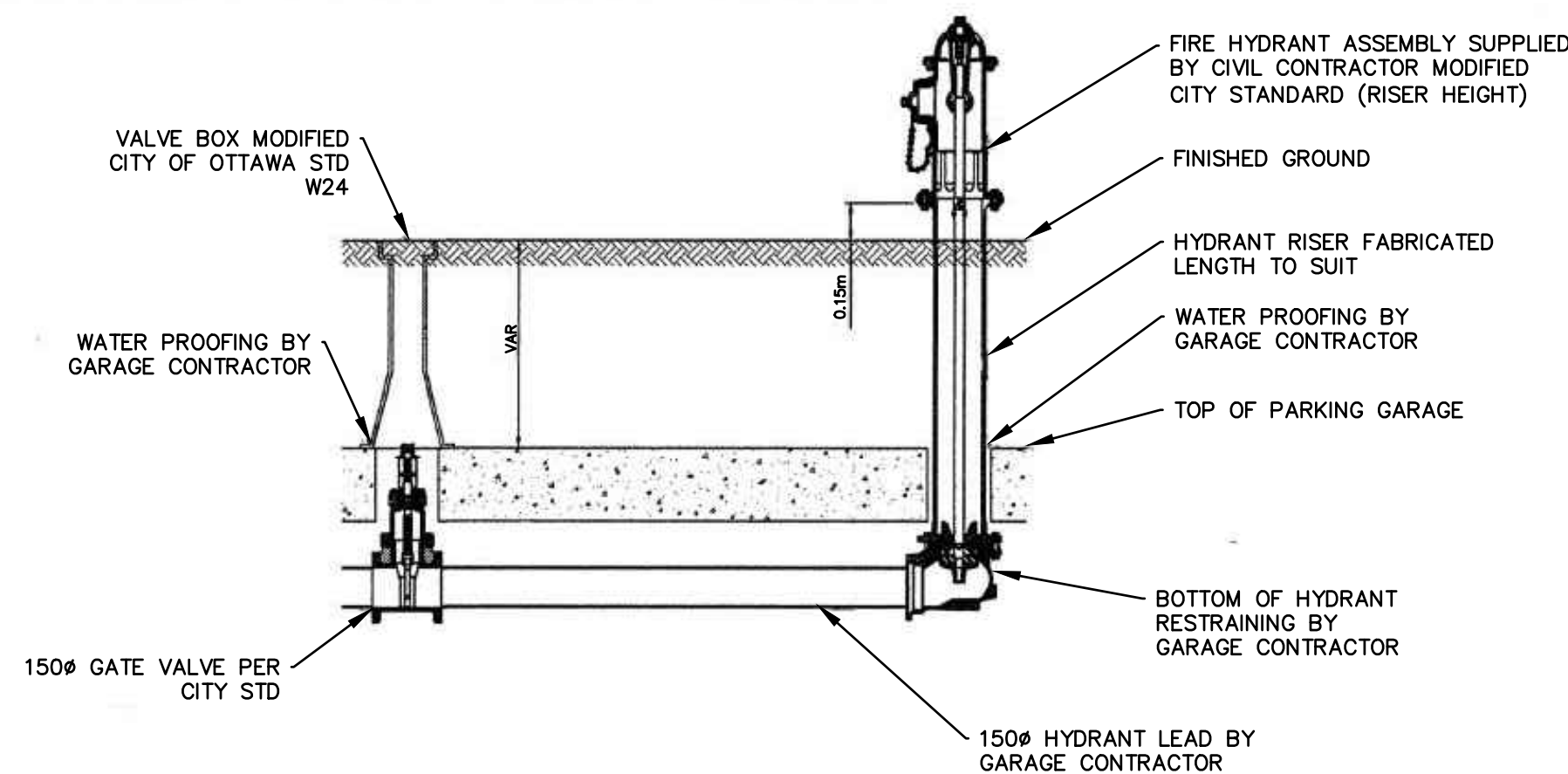
STORM STRUCTURE TABLE											
STRUCTURE	TOP OF GRATE	STRUC			OUTLET DIAMETER	TYPE					
		INLET	INLET	INLET			OUTLET	SIZE	OPSD	COVER	OUTLET DIAMETER
CB01	65.00				63.600	600X600mm	OPSD 705.010	S19.1	250	PVC SDR-35	
CB02	65.58				64.010	REFER TO TRENCH DRAIN DESIGN			250	PVC SDR-35	
CB03	66.28				64.190	REFER TO TRENCH DRAIN DESIGN			250	PVC SDR-35	
CB04	66.02				64.220	600X600mm	OPSD 705.010	S19.1	250	PVC SDR-35	
CB05	64.91				63.740	REFER TO TRENCH DRAIN DESIGN			250	PVC SDR-35	
CB06	64.91				63.760	REFER TO TRENCH DRAIN DESIGN			250	PVC SDR-35	
CB07	64.90				63.690	REFER TO TRENCH DRAIN DESIGN			250	PVC SDR-35	
CB08	64.90				63.190	REFER TO TRENCH DRAIN DESIGN			250	PVC SDR-35	
CB09	65.20				64.070	REFER TO TRENCH DRAIN DESIGN			250	PVC SDR-35	
CB10	65.30				63.620	600X600mm	OPSD 705.010	S19.1	250	PVC SDR-35	
CB11	65.93				64.000	REFER TO TRENCH DRAIN DESIGN			250	PVC SDR-35	
CB12	66.24				63.660	600X600mm	OPSD 705.010	S19.1	250	PVC SDR-35	
CB13	65.74				63.680	REFER TO TRENCH DRAIN DESIGN			250	PVC SDR-35	
CB14	67.22				64.370	REFER TO TRENCH DRAIN DESIGN			250	PVC SDR-35	
CB15	65.15				63.830	600X600mm	OPSD 705.010	S19.1	250	PVC SDR-35	
STM#201(OGS)	65.35			63.080	63.060	1800mm DIA.	OPSD 701.010	S24.1	900	PVC SDR-35	
STM#202	65.42		63.380	63.150	63.060	1800mm DIA.	OPSD 701.010	S24.1	1050	CONC	
STM#203	68.26			63.210	63.190	1800mm DIA.	OPSD 701.010	S24.1	1050	CONC	
STM#204	71.50			63.260	63.240	1800mm DIA.	OPSD 701.010	S24.1	1050	CONC	
STM#205	66.72		64.070	63.320	63.290	1800mm DIA.	OPSD 701.010	S24.1	1050	CONC	
STM#206	67.11			63.370	63.350	1800mm DIA.	OPSD 701.010	S24.1	1050	CONC	
STM#207	66.15			63.420	63.390	1800mm DIA.	OPSD 701.010	S24.1	1050	CONC	
STM#208	66.39		63.900	63.520	63.440	1800mm DIA.	OPSD 701.010	S24.1	1050	CONC	
STM#209	66.41			63.620	63.580	1800mm DIA.	OPSD 701.010	S24.1	900	CONC	
CBM#210	64.90		63.520	63.200	63.180	1200mm DIA.	OPSD 701.010	S28.1	600	CONC	
STM#211	65.75		63.240	63.220	63.220	1200mm DIA.	OPSD 701.010	S24.1	600	CONC	
STM#212	65.37			63.360	63.290	1200mm DIA.	OPSD 701.010	S24.1	600	CONC	
STM#213	65.05	63.380	63.380	63.110	63.060	1200mm DIA.	OPSD 701.010	S24.1	250	PVC SDR-35	
STM#214	66.14	64.110	63.680	63.600	63.060	1200mm DIA.	OPSD 701.010	S24.1	250	PVC SDR-35	
STM#215	66.09	64.110	63.380	63.060	64.110	1200mm DIA.	OPSD 701.010	S24.1	250	PVC SDR-35	

SAN STRUCTURE TABLE									
STRUCTURE ID	TOP OF GRATE	INVERT				DESCRIPTION			
		INLET	INLET	INLET	OUTLET	SIZE	OPSD	COVER	
SAM#201	65.27			62.410	62.380	1200mm DIA.	OPSD-701.010	S24	
SAM#202	66.13			62.510	62.480	1200mm DIA.	OPSD-701.010	S24	
SAM#202A	67.02		64.510	62.570	62.570	1200mm DIA.	OPSD-701.010	S24	
SAM#203	71.50			62.690	62.670	1200mm DIA.	OPSD-701.010	S24	
SAM#204	66.65			62.760	62.740	1200mm DIA.	OPSD-701.010	S24	
SAM#205	66.90			62.820	62.800	1200mm DIA.	OPSD-701.010	S24	
SAM#206	66.93			62.880	62.860	1200mm DIA.	OPSD-701.010	S24	
SAM#207	66.43	63.340	62.940	62.920	1200mm DIA.	OPSD-701.010	S24		
SAM#208	66.42			63.100	63.040	1200mm DIA.	OPSD-701.010	S24	
SAM#208A	66.46	65.840	63.020	63.020	1200mm DIA.	OPSD-701.010	S24		
SAM#209	65.67			62.680	62.660	1200mm DIA.	OPSD-701.010	S24	
SAM#210	65.36			62.820	62.760	1200mm DIA.	OPSD-701.010	S24	

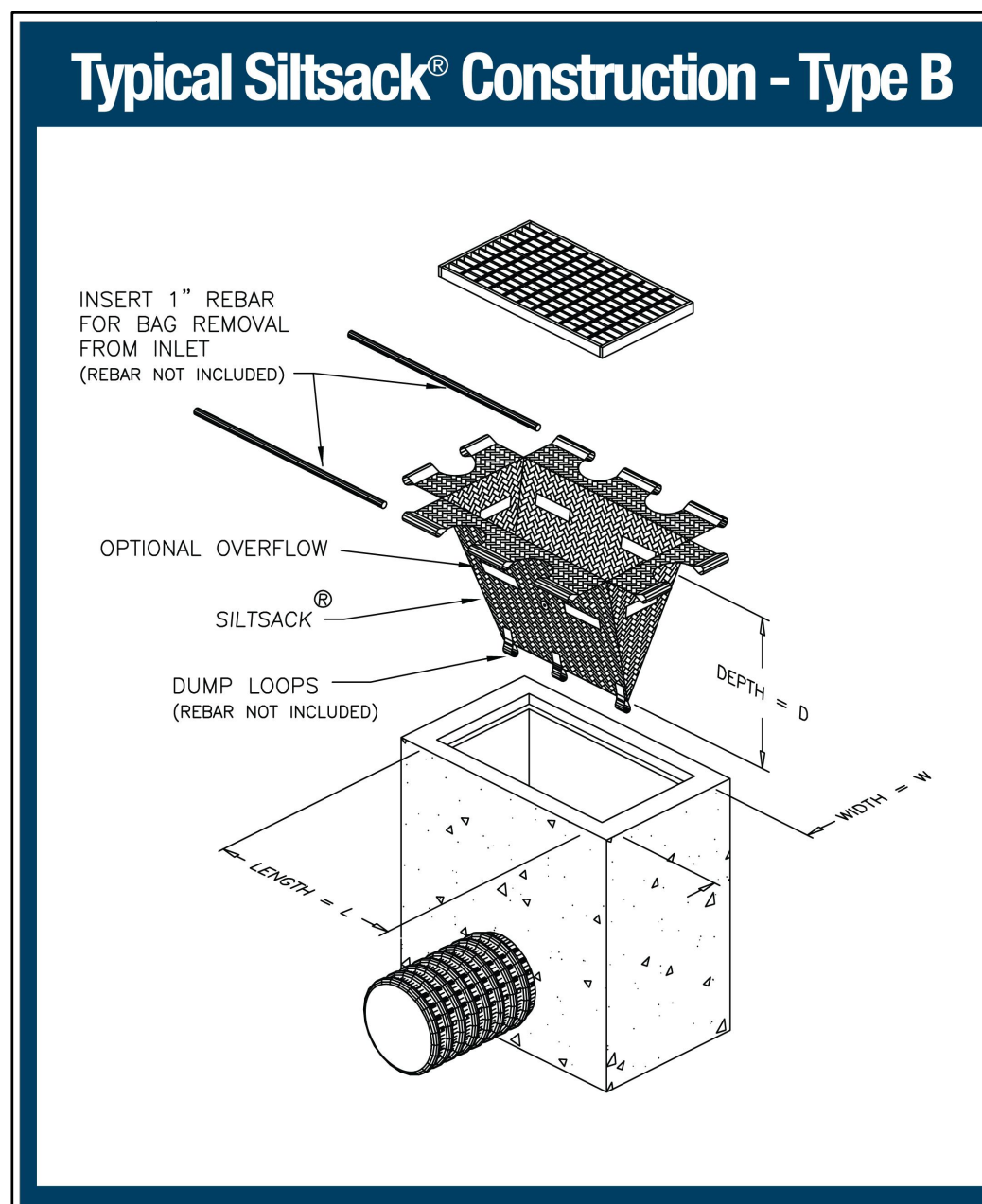


1 MUD MAT DETAIL - PLAN VIEW  
SCALE: N.T.S.

FIRE HYDRANT ABOVE PARKING GARAGE



	Obvert Invert				Obvert Invert					
	STATION	DESCRIPTION	FINISHED GRADE	TOP OF WATERMAIN	COVER	STATION	DESCRIPTION	FINISHED GRADE	TOP OF WATERMAIN	COVER
1	1050mmØ CONC STM	64.373	63.190	0.188	Clearance Above	63.002	62.627	375mmØ PVC SAN		
2	375mmØ PVC SAN	62.729	62.354	0.103	Clearance Under	64.341	62.832	EX. 1350mmØ CONC STM		
3	375mmØ PVC SAN	62.768	62.393	0.083	Clearance Above	62.310	62.110	EX. 200mmØ PVC W/M		
4	375mmØ PVC SAN	62.794	62.419	0.164	Clearance Under	63.979	62.958	900mmØ CONC STM		
5	EX. 200mmØ PVC W/M	62.130	61.930	0.825	Clearance Under	63.976	62.955	900mmØ CONC STM		
6	375mmØ PVC SAN	62.855	62.480	1.289	Clearance Under	64.394	64.144	250mmØ PVC STM		
7	375mmØ PVC SAN	63.208	62.833	1.272	Clearance Under	64.680	64.480	200mmØ PVC W/M		
8	1050mmØ CONC STM	64.556	63.373	0.363	Clearance Above	63.010	62.810	200mmØ PVC W/M		
9	375mmØ PVC SAN	63.300	62.925	0.605	Clearance Under	64.505	63.905	600mmØ PVC STM		
10	200mmØ PVC W/M	64.060	63.860	0.209	Clearance Above	63.651	63.351	EX. 300mmØ PVC SAN		
11	200mmØ PVC W/M	63.570	63.370	0.378	Clearance Under	64.643	63.948	EX. 600mmØ PVC STM		
12	200mmØ PVC W/M	64.060	63.860	0.458	Clearance Above	63.402	63.027	375mmØ PVC SAN		
13	200mmØ PVC SAN	65.339	65.089	0.500	Clearance Above	64.589	63.568	900mmØ CONC STM		
14	250mmØ PVC STM	63.976	63.726	0.884	Clearance Above	62.841	62.591	EX. 250mmØ PVC SAN		
15	250mmØ PVC STM	64.209	63.959	1.012	Clearance Above	62.947	62.572	EX. 375mmØ PVC SAN		
16	250mmØ PVC STM	63.194	62.944	0.097	Clearance Above	62.847	62.472	EX. 375mmØ PVC SAN		
17	200mmØ PVC W/M	63.960	63.760	0.282	Clearance Above	63.478	63.103	375mmØ PVC SAN		
18	600mmØ PVC STM	63.987	63.387	0.343	Clearance Above	63.044	62.794	EX. 250mmØ PVC SAN		
19	600mmØ PVC STM	63.850	63.250	0.332	Clearance Above	62.918	62.668	EX. 250mmØ PVC SAN		
20	375mmØ PVC SAN	63.318	62.943	0.542	Clearance Under	64.060	63.860	200mmØ PVC W/M		
21	1050mmØ CONC STM	64.511	63.328	0.378	Clearance Above	62.950	62.750	200mmØ PVC W/M		
22	1050mmØ CONC STM	64.463	63.280	2.267	Clearance Under	66.930	66.730	200mmØ PVC W/M		
23	375mmØ PVC SAN	63.141	62.766	3.429	Clearance Under	66.770	66.570	200mmØ PVC W/M		
24	375mmØ PVC SAN	63.141	62.766	1.009	Clearance Under	64.350	64.150	200mmØ PVC W/M		
25	900mmØ CONC STM	64.537	63.516	0.306	Clearance Above	63.210	63.010	200mmØ PVC W/M		
26	900mmØ CONC STM	64.591	63.570	0.330	Clearance Above	63.240	63.040	200mmØ PVC W/M		
27	200mmØ PVC W/M	62.860	62.660	0.349	Clearance Under	63.904	63.209	EX. 600mmØ CONC STM		
28	200mmØ PVC W/M	62.340	62.140	0.310	Clearance Under	62.900	62.650	EX. 250mmØ PVC SAN		
29	200mmØ PVC W/M	64.320	64.120	1.150	Clearance Above	62.970	62.595	EX. 375mmØ PVC SAN		
30	250mmØ PVC STM	64.516	64.266	1.290	Clearance Above	62.976	62.601	375mmØ PVC SAN		



WATERMAIN SCHEDULE				
STATION	DESCRIPTION	FINISHED GRADE	TOP OF WATERMAIN	COVER
200mm W/M (FROM CONNECT TO EX.W/M TO BUILDING)				
0+000	Connect to EX. W/M	65.00	62.600	2.40
0+018.61	Crossing with 375mm PVC SAN	66.75	64.350	2.40
0+020.82	Crossing with 1050mm CONC STM	66.85	62.950	3.90
0+027.87	Connect to building	67.11	64.710	2.40

WATERMAIN SCHEDULE				
STATION	DESCRIPTION	FINISHED GRADE	TOP OF WATERMAIN	COVER
200mm W/M (FROM BUILDING TO END)				
1+000	Connect to proposed building	66.24	63.840	2.40
1+000.90	200mm VB	66.27	63.870	2.40
1+004.78	Crossing with 900mm CONC STM	66.41	63.210	3.20
1+006.27	Crossing with 375mm PVC SAN	64.06	61.660	2.40
1+006.81	45° Bend	66.48	64.080	2.40
1+007.85	150X200mm Tee connection	66.49	64.090	2.40
1+008.90	45° Bend	66.49	64.090	2.40
1+060.64	200X200mm TEE Connection	66.48	64.080	2.40
1+069.54	Crossing with 375mm PVC SAN	66.42	64.020	2.40
1+072.29	Watermain cap	66.37	63.970	2.40

WATERMAIN SCHEDULE				
STATION	DESCRIPTION	FINISHED GRADE	TOP OF WATERMAIN	COVER
200mm W/M (TEE CONNECTION TO BUILDING)				
2+000	200x200mm TEE Connection	66.48	64.080	2.40
2+001.98	Crossing with 375mm PVC SAN	66.46	64.060	2.40
2+003.48	Crossing with 900mm CONC STM	66.44	63.240	3.20
2+008.86	Connect to proposed building	66.37	63.970	2.40

WATERMAIN SCHEDULE				
STATION	DESCRIPTION	FINISHED GRADE	TOP OF WATERMAIN	COVER
200mm W/M (FROM CONNECT TO EX.W/M TO BUILDING)				
3+000	Connect to EX. W/M	66.18	63.780	2.40
3+004.31	Crossing with 375mm PVC SAN	67.08	64.680	2.40
3+006.16	Crossing with 1050mm CONC STM	67.11	63.010	4.10
3+007.37	200mm VB	67.11	64.710	2.40
3+008.05	Connect to proposed building	67.12	64.720	2.40

WATERMAIN SCHEDULE				
STATION	DESCRIPTION	FINISHED GRADE	TOP OF WATERMAIN	COVER
200mm W/M (FROM CONNECT TO EX.W/M TO BUILDING)				
4+000	Connect to EX. W/M	65.13	62.730	2.40
4+019.81	Crossing with 375mm PVC SAN	69.17	66.770	2.40
4+021.66	Crossing with 1050mm CONC STM	69.33	66.930	2.40
4+026.48	Connect to building	68.23	65.830	2.40

WATERMAIN SCHEDULE				
STATION	DESCRIPTION	FINISHED GRADE	TOP OF WATERMAIN	COVER
150mm FIRE HYDRANT (CLOSE TO EVENT CENTER)				
5+000	150x200mm Tee connection	66.49	64.090	2.40
5+004.77	45° Bend	66.47	64.070	2.40
5+010.07	Connect to Fire Hydrant	66.42	64.020	2.40

WATERMAIN SCHEDULE				
STATION	DESCRIPTION	FINISHED GRADE	TOP OF WATERMAIN	COVER
150mm FIRE HYDRANT (ON LANDSCAPE AREA)				
6+000	Connect to EX.W/M with Tee Connection	66.60	64.200	2.40
6+010.21	45° Bend	66.79	64.390	2.40
6+016.90	Connect to Fire Hydrant	67.00	64.600	2.40

WATERMAIN SCHEDULE				
STATION	DESCRIPTION	FINISHED GRADE	TOP OF WATERMAIN	COVER
200mm W/M (FROM CONNECT TO EX.W/M TO END)				
7+000	Connect to EX. W/M	65.94	63.540	2.40
7+009.51	45° Bend	65.85	63.450	2.40
7+012.50	Crossing with 600mm CONC STM	65.76	62.860	2.90
7+016.18	Crossing with 250mm PVC SAN	65.64	62.340	3.30
7+051.88	45° Bend	65.37	62.970	2.40
7+053.12	22.5° Bend	65.37	62.970	2.40
7+065.36	Watermain cap	65.32	62.920	2.40







Point No.	Northing	Eastng	Elev
CC #1	5029149.213	368806.860	
CC #2	5029243.952	368876.257	
CC #3	5029193.203	368705.571	65.412
CC #6	5029144.760	368623.492	66.742
CC #7	5029095.379	368579.045	67.506
CC #8	5029101.070	368549.781	67.805
CC #9	5028989.253	368641.460	69.256
CP #87	5029086.967	368660.129	64.574
CP #88	5029257.273	369021.685	64.639
CP #102	5029082.645	368877.952	65.027
CP #103	5029112.963	368813.748	
CP #104	5029110.951	368837.055	65.020
CP#105	5029144.819	368801.911	65.107
CP #0006	5029086.150	368805.429	
CPW #83	5028853.673	368573.563	65.326
SPK #4	5029115.901	368853.680	
SPK #85	5028866.914	368672.574	65.202
SPK #7352	5029056.087	368811.849	71.292
SPK #8928	5029145.040	368779.868	66.016
SPK #8435	5029089.179	368788.229	68.714
PKN #8638	5029023.162	368892.308	64.954
TARGET ON VAIL #7696	5028924.093	368706.883	89.744
MAG #20001	5029282.143	368911.384	65.242

**Ottawa**  
**OSEG**  
 Ottawa Sports and Entertainment Group

**BREIN BROOK BEYOND ARCHITECTS**  
 14 DUNCAN ST 4TH FLOOR  
 TORONTO, ON M5H 3G8  
 (416) 591-8999

**ENTUITIVE**  
 135 LAURIER AVE WEST, SUITE 413  
 OTTAWA, ON K1P 5J2  
 (343) 308-9274

STRUCTURAL ENGINEER

**TMP**  
 200 KING ST. WEST, SUITE 310  
 TORONTO, ON M5H 3T4  
 (416) 499-8000

MECH, PLUMB, FIRE PROTECTION ENGINEER

**MULVEY & BANANI**  
 90 SHEPPARD AVE EAST, SUITE 500  
 TORONTO, ON M2N 3A  
 (416) 751-2520

ELEC, LIGHTING ENGINEER

**S2O**  
 530 N. WOOD STREET #C  
 CHICAGO, IL 60622  
 (224) 717-1999

FOOD AND BEVERAGE

**CSW**  
 319 MCRAE AVENUE, SUITE 502  
 OTTAWA, ONTARIO K1Z 0B9  
 (613) 729-4536

LANDSCAPE ARCHITECT

**wsp**  
 2011 QUEENSVIEW DR.  
 OTTAWA, ONTARIO K2B 8K2  
 (613) 829-2800

CIVIL ENGINEER

NO.	DESCRIPTION	DATE
5	REVISED AS PER CITY COMMENTS	2025-01-15
4	ISSUED FOR COORDINATION	2024-12-20
3	ISSUED FOR 90% DD - CLASS B ESTIMATE	2024-11-15
2	REVISED AS PER CITY COMMENTS	2024-09-13
1	ISSUED FOR SPA	2024-08-07

**REVISIONS/ ISSUES**  
 CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND REPORT ANY OMISSIONS OR DISCREPANCIES TO THE ARCHITECT BEFORE PROCEEDING WITH THE WORK. **DO NOT SCALE THE DRAWINGS**



SEAL

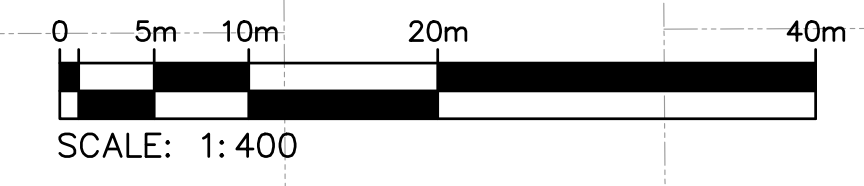
**PROFESSIONAL ENGINEER**  
 D. B. YANG  
 100230568  
 2025-01-15  
 PROVINCE OF ONTARIO

DRAWN J.T  
 DATE 2025/01/15  
 CHECKED W.Y

**LANSDOWNE EVENT CENTRE**  
 945 & 1015 BANK STREET

DWG. TITLE  
**REMOVAL PLAN**

SCALE 1:400 DWG. NO. **C03A**  
 PROJ. NO. CA0033920.1056

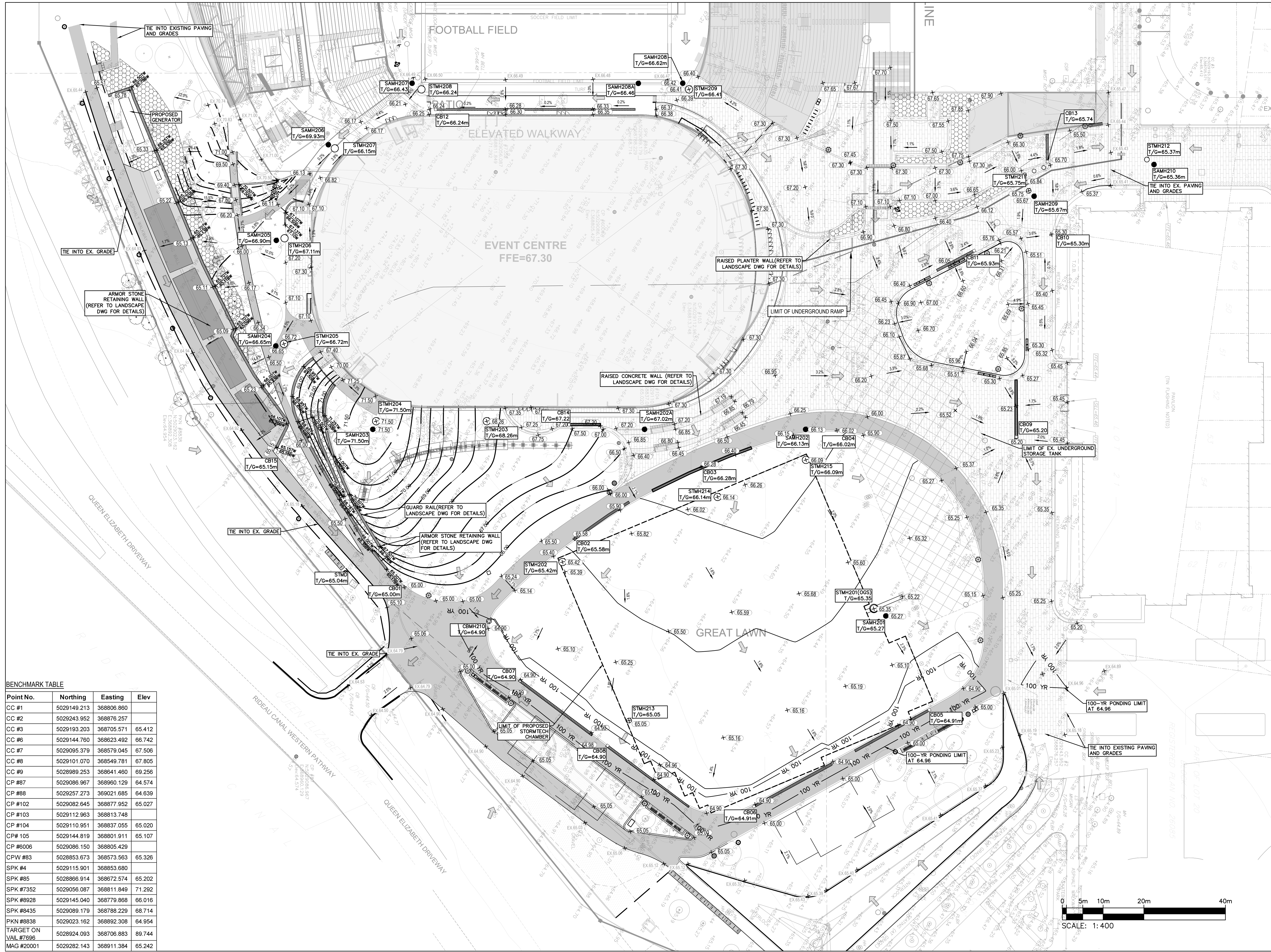


DATE PLOTTED: 2025-01-15 10:30:00 AM



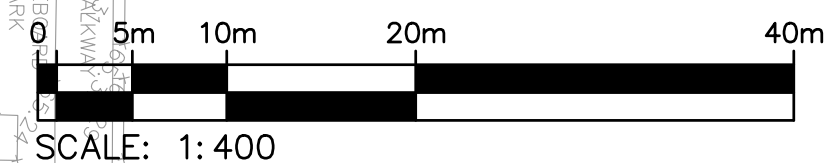






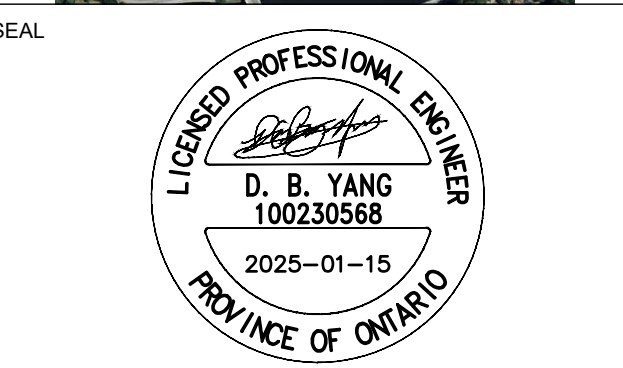
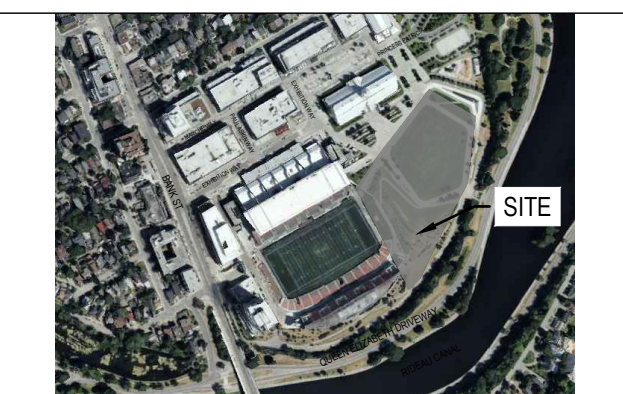
**BENCHMARK TABLE**

Point No.	Northing	Easting	Elev
CC #1	5029149.213	368806.860	
CC #2	5029243.952	368876.257	
CC #3	5029193.203	368705.571	65.412
CC #6	5029144.760	368623.492	66.742
CC #7	5029095.379	368579.045	67.506
CC #8	5029101.070	368549.781	67.805
CC #9	5028989.253	368641.460	69.256
CP #87	5029086.967	368960.129	64.574
CP #88	5029257.273	369021.685	64.639
CP #102	5029082.645	368877.952	65.027
CP #103	5029112.963	368813.748	
CP #104	5029110.951	368837.055	65.020
CP #105	5029144.819	368801.911	65.107
CP #6006	5029086.150	368805.429	
CPW #83	5028853.673	368573.563	65.326
SPK #4	5029115.901	368853.680	
SPK #85	5028866.914	368672.574	65.202
SPK #7352	5029056.087	368811.849	71.292
SPK #8928	5029145.040	368779.868	66.016
SPK #8435	5029089.179	368788.229	68.714
PKN #8838	5029023.162	368892.308	64.954
TARGET ON VAIL #7696	5028924.093	368706.883	89.744
MAG #20001	5029282.143	368911.384	65.242



NO.	DESCRIPTION	DATE
5	REVISED AS PER CITY COMMENTS	2025-01-15
4	ISSUED FOR COORDINATION	2024-12-30
3	ISSUED FOR RAIN SD - CLASS ESTIMATE	2024-11-15
2	REVISED AS PER CITY COMMENTS	2024-09-13
1	ISSUED FOR SPA	2024-08-07

**REVISIONS/ ISSUES**  
 CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND REPORT ANY OMISSIONS OR DISCREPANCIES TO THE ARCHITECT BEFORE PROCEEDING WITH THE WORK. **DO NOT SCALE THE DRAWINGS**



DRAWN: J.T.  
 DATE: 2025/01/15  
 CHECKED: W.Y.

**LANSDOWNE EVENT CENTRE**  
 945 & 1015 BANK STREET

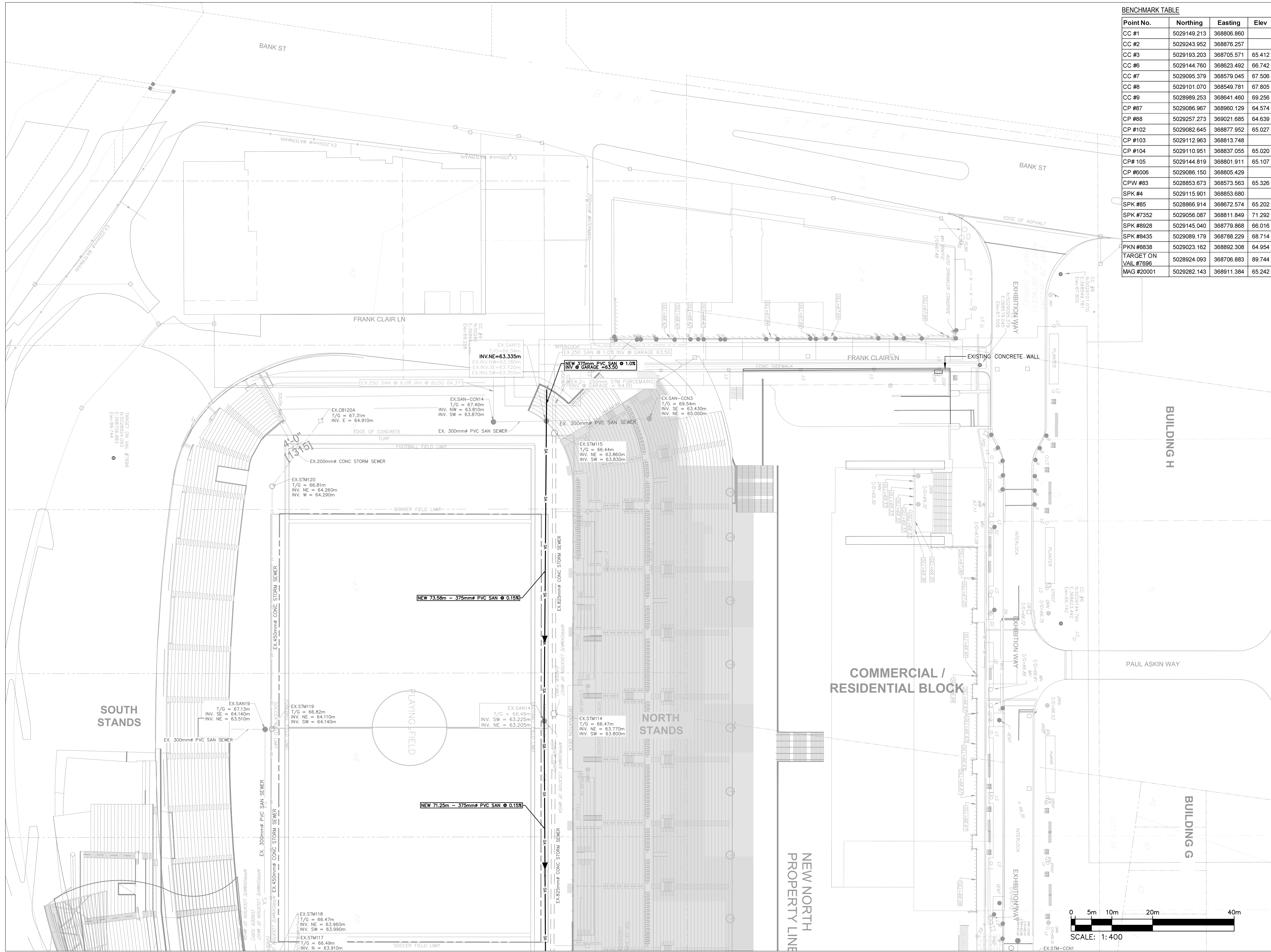
DWG. TITLE: **GRADING PLAN**

SCALE: 1:400  
 PROJ. NO: CA0033920.1056  
 DWG. NO: C04

DATE PLOTTED:

#19172





Point No.	Northing	Eastng	Elev
CC #1	5029149.213	368806.860	
CC #2	5029243.952	368876.257	
CC #3	5029193.203	368705.571	65.412
CC #6	5029144.760	368623.492	66.742
CC #7	5029095.379	368579.045	67.506
CC #8	5029101.070	368549.781	67.805
CC #9	5028989.253	368641.460	69.256
CP #87	5029086.967	368960.129	64.574
CP #88	5029257.273	369021.685	64.639
CP #102	5029082.645	368877.952	65.027
CP #103	5029112.963	368813.748	
CP #104	5029110.951	368837.055	65.020
CP #105	5029144.819	368801.911	65.107
CP #6006	5029086.150	368805.429	
CPW #83	5028853.673	368573.563	65.326
SPK #4	5029115.901	368853.680	
SPK #85	5028866.914	368672.574	65.202
SPK #7352	5029056.087	368811.849	71.292
SPK #8928	5029145.040	368779.868	66.016
SPK #8435	5029089.179	368788.229	68.714
PKN #8838	5029023.162	368892.308	64.954
TARGET ON VAIL #7696	5028924.093	368706.883	89.744
MAG #20001	5029282.143	368911.384	65.242



**BRISBROOK BEYOND ARCHITECTS**  
 14 DUNCAN ST 4TH FLOOR  
 TORONTO, ON M5H 3G8  
 (416) 591-8999  
 ARCHITECT

**ENTUITIVE**  
 135 LAURIER AVE WEST, SUITE 413  
 OTTAWA, ON K1P 5J2  
 (343) 308-9274  
 STRUCTURAL ENGINEER

**TAMP**  
 200 KING ST. WEST, SUITE 310  
 TORONTO, ON M5H 3T4  
 (416) 499-8000  
 MECH. PLUMB. FIRE PROTECTION ENGINEER

**MULVEY & BANANI**  
 90 SHEPPARD AVE. EAST, SUITE 500  
 TORONTO, ON M2N 3A  
 (416) 751-2520  
 ELEC. LIGHTING ENGINEER

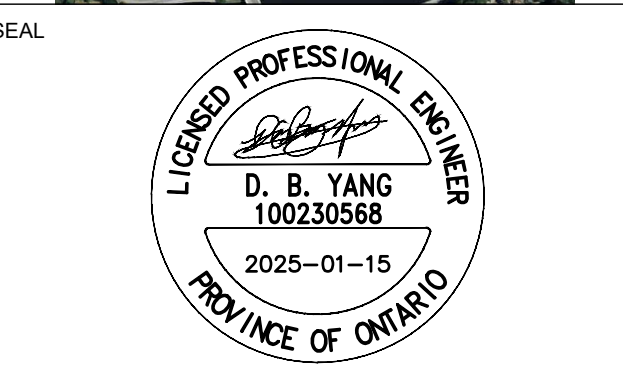
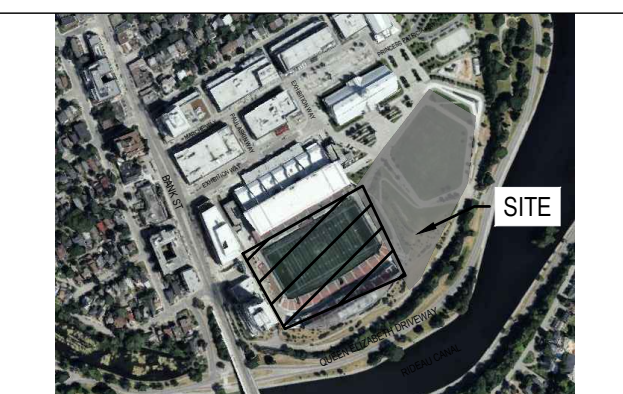
**S2O**  
 530 N. WOOD STREET #C  
 CHICAGO, IL 60622  
 (224) 717-1999  
 FOOD AND BEVERAGE

**CSW**  
 319 MCRAE AVENUE, SUITE 502  
 OTTAWA, ONTARIO K1Z 0B9  
 (613) 729-4536  
 LANDSCAPE ARCHITECT

**wsp**  
 2011 QUEENVIEW DR.  
 OTTAWA, ONTARIO K2B 8K2  
 (613) 829-2800  
 CIVIL ENGINEER

NO.	DESCRIPTION	DATE
5	REVISED AS PER CITY COMMENTS	2025-01-15
4	ISSUED FOR COORDINATION	2024-12-30
3	ISSUED FOR RFI QD - CLASS B ESTIMATE	2024-11-15
2	REVISED AS PER CITY COMMENTS	2024-09-13
1	ISSUED FOR SPA	2024-08-07

**REVISIONS/ ISSUES**  
 CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND REPORT ANY OMISSIONS OR DISCREPANCIES TO THE ARCHITECT BEFORE PROCEEDING WITH THE WORK. DO NOT SCALE THE DRAWINGS

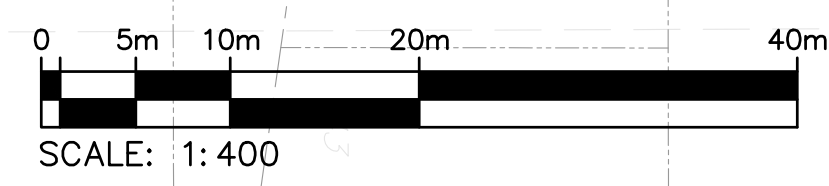


DRAWN: J.T.  
 DATE: 2025/01/15  
 CHECKED: W.Y.

**LANSDOWNE EVENT CENTRE**  
 945 & 1015 BANK STREET

DWG. TITLE: **SERVICING PLAN**

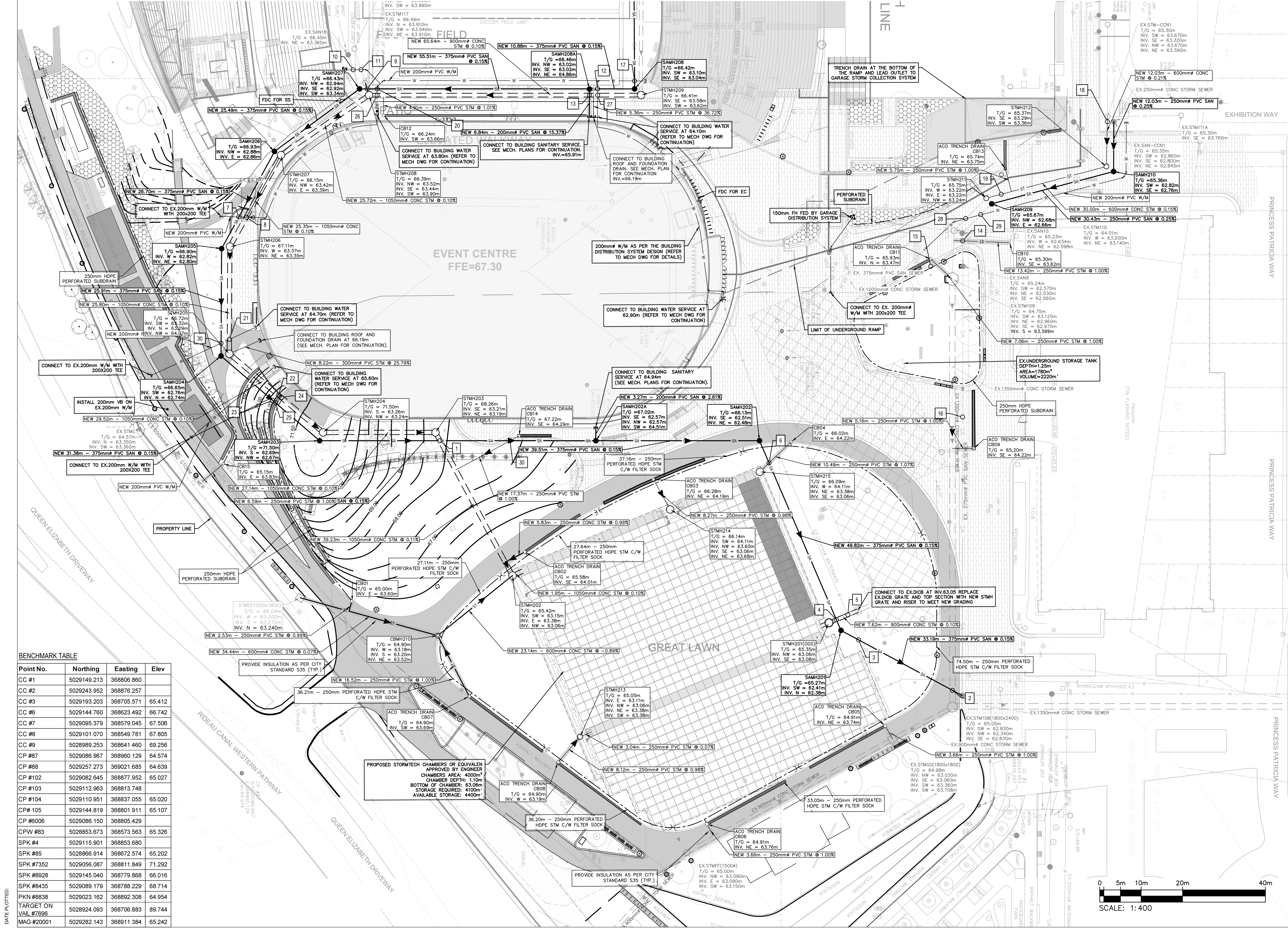
SCALE: 1:400  
 PROJ. NO: CA0033920.1056  
 DWG. NO: C05A



DATE PLOTTED:

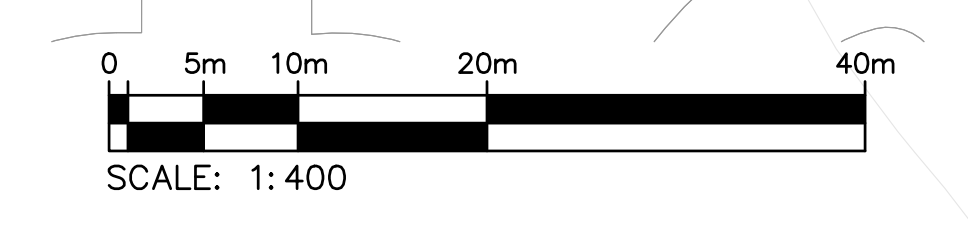


MATCH LINE  
SEE DRAWING C05A



**BENCHMARK TABLE**

Point No.	Northing	Easting	Elev
CC #1	5029149.213	368806.860	
CC #2	5029243.952	368876.257	
CC #3	5029193.203	368705.571	65.412
CC #6	5029144.760	368623.492	66.742
CC #7	5029095.379	368579.045	67.506
CC #8	5029101.070	368549.781	67.805
CC #9	5028989.253	368641.460	69.256
CP #87	5029086.967	368960.129	64.574
CP #88	5029257.273	369021.685	64.639
CP #102	5029082.645	368877.952	65.027
CP #103	5029112.963	368813.748	
CP #104	5029110.951	368837.055	65.020
CP #105	5029144.819	368801.911	65.107
CP #6006	5029086.150	368805.429	
CPW #83	5028853.673	368573.563	65.326
SPK #4	5029115.901	368853.680	
SPK #85	5028866.914	368672.574	65.202
SPK #7352	5029056.087	368811.849	71.292
SPK #8928	5029145.040	368779.868	66.016
SPK #8435	5029089.179	368788.229	68.714
PKN #8838	5029023.162	368892.308	64.954
TARGET ON VAIL #7696	5028924.093	368706.883	89.744
MAG #20001	5029282.143	368911.384	65.242



**BRISBEN BROOK BEYON ARCHITECTS**  
14 DUNCAN ST 4TH FLOOR  
TORONTO, ON M5H 3G8  
(416) 591-8999  
ARCHITECT

**ENTUITIVE**  
135 LAURIER AVE WEST, SUITE 413  
OTTAWA, ON M5H 5J2  
(343) 308-9274  
STRUCTURAL ENGINEER

**TAMP**  
200 KING ST. WEST, SUITE 310  
TORONTO, ON M5H 3T4  
(416) 499-8000  
MECH. PLUMB. FIRE PROTECTION ENGINEER

**MULVEY & BANANI**  
90 SHEPPARD AVE. EAST, SUITE 500  
TORONTO, ON M2N 3A  
(416) 751-2520  
ELEC. LIGHTING ENGINEER

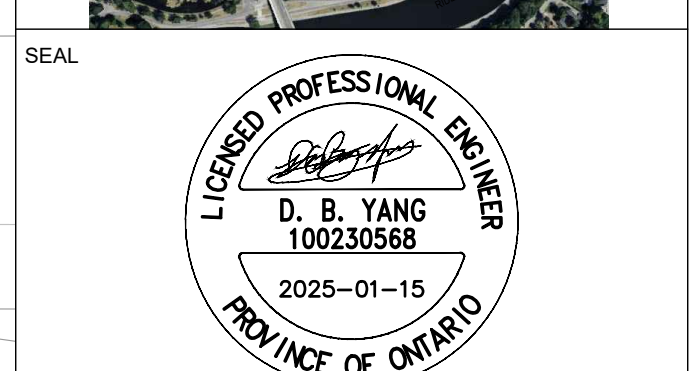
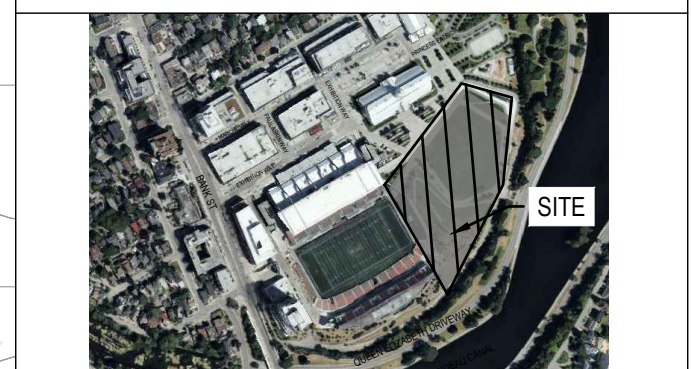
**S2O**  
530 N. WOOD STREET #C  
CHICAGO, IL 60622  
(224) 717-1999  
FOOD AND BEVERAGE

**CSW**  
319 MCRAE AVENUE, SUITE 502  
OTTAWA, ONTARIO K1Z 0B9  
(613) 729-4536  
LANDSCAPE ARCHITECT

**wsp**  
2011 QUEENSVIEW DR.  
OTTAWA, ONTARIO K2B 8K2  
(613) 829-2800  
CIVIL ENGINEER

NO.	DESCRIPTION	DATE
5	REVISED AS PER CITY COMMENTS	2025-01-15
4	ISSUED FOR COORDINATION	2024-12-30
3	ISSUED FOR RFP 50 - CLASS ESTIMATE	2024-11-15
2	REVISED AS PER CITY COMMENTS	2024-09-13
1	ISSUED FOR RFP	2024-08-07

**REVISIONS/ ISSUES**  
CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND REPORT ANY OMISSIONS OR DISCREPANCIES TO THE ARCHITECT BEFORE PROCEEDING WITH THE WORK. DO NOT SCALE THE DRAWINGS

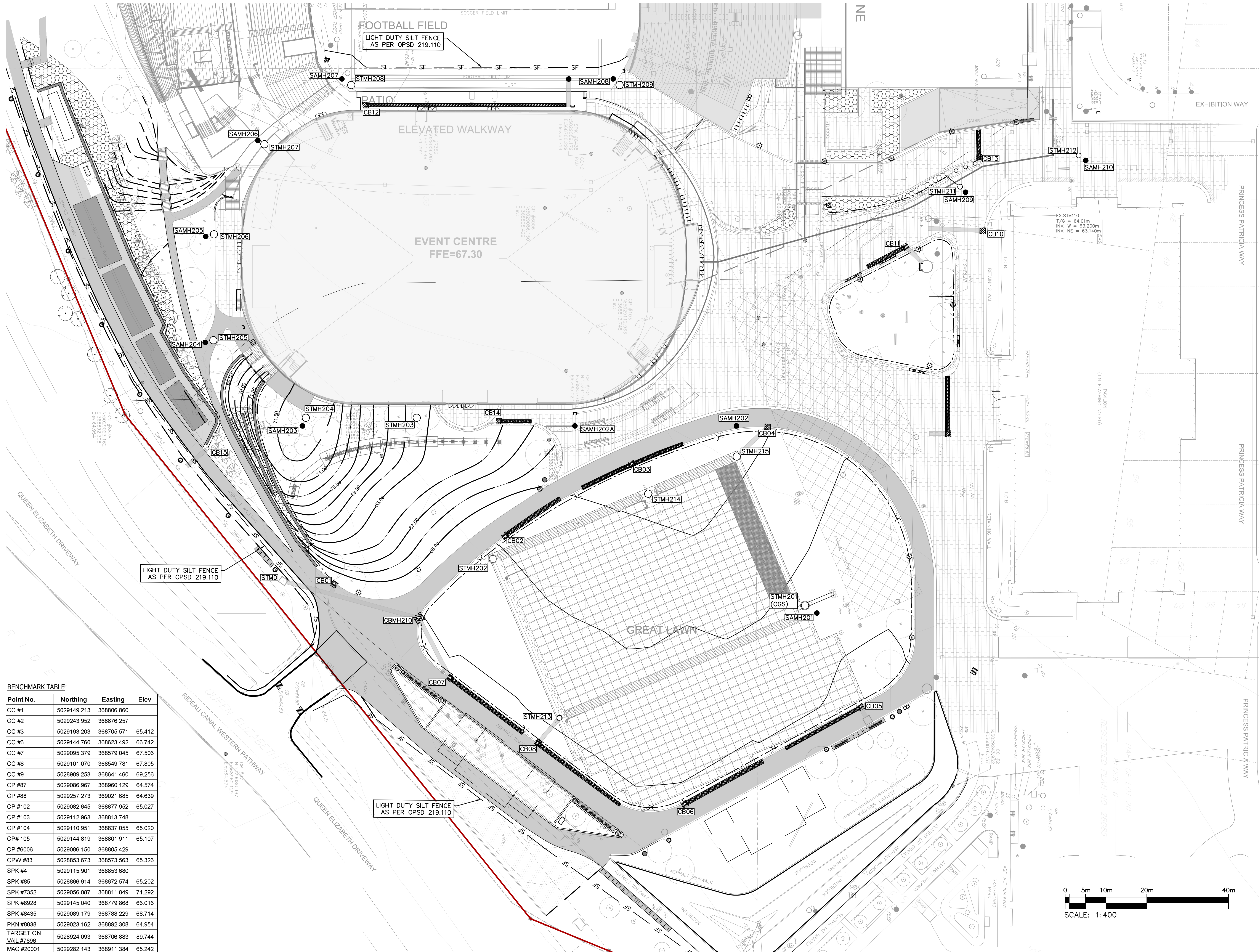


DRAWN: J.T.  
DATE: 2025/01/15  
CHECKED: W.Y.

**LANSDOWNE EVENT CENTRE**  
945 & 1015 BANK STREET

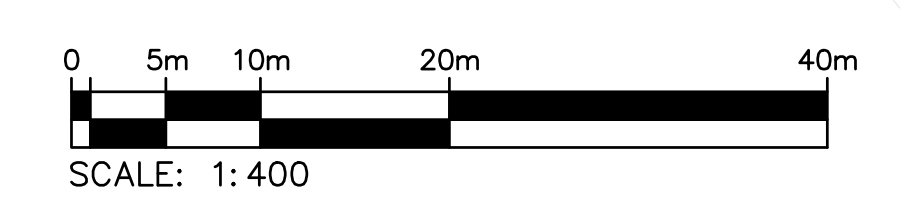
DWG. TITLE: **SERVICING PLAN**  
SCALE: 1:400  
PROJ. NO: CA0033920.1056  
DWG. NO: **C05B**





**BENCHMARK TABLE**

Point No.	Northing	Easting	Elev
CC #1	5029149.213	368806.860	
CC #2	5029243.952	368876.257	
CC #3	5029193.203	368705.571	65.412
CC #6	5029144.760	368623.492	66.742
CC #7	5029095.379	368579.045	67.506
CC #8	5029101.070	368549.781	67.805
CC #9	5028989.233	368641.460	69.256
CP #87	5029086.967	368960.129	64.574
CP #88	5029257.273	369021.685	64.639
CP #102	5029082.645	368877.952	65.027
CP #103	5029112.963	368813.748	
CP #104	5029110.951	368837.055	65.020
CP #105	5029144.819	368801.911	65.107
CP #6006	5029086.150	368805.429	
CPW #83	5028853.673	368573.563	65.326
SPK #4	5029115.901	368853.680	
SPK #85	5028866.914	368672.574	65.202
SPK #7352	5029056.087	368811.849	71.292
SPK #8928	5029145.040	368779.868	66.016
SPK #8435	5029089.179	368788.229	68.714
PKN #8838	5029023.162	368892.308	64.954
TARGET ON VAIL #7696	5028924.093	368706.883	89.744
MAG #20001	5029282.143	368911.384	65.242



**BREIN BROOK BEYOND ARCHITECTS**  
 14 DUNCAN ST 4TH FLOOR  
 TORONTO, ON M5H 3G8  
 (416) 591-8999  
 ARCHITECT

**ENTUITIVE**  
 135 LAURIER AVE WEST, SUITE 413  
 OTTAWA, ON K1P 5J2  
 (343) 308-9274  
 STRUCTURAL ENGINEER

**TMP**  
 200 KING ST. WEST, SUITE 310  
 TORONTO, ON M5H 3T4  
 (416) 499-8000  
 MECH. PLUMB. FIRE PROTECTION ENGINEER

**MULVEY & BANANI**  
 90 SHEPPARD AVE EAST, SUITE 500  
 TORONTO, ON M2N 3A  
 (416) 751-2520  
 ELEC. LIGHTING ENGINEER

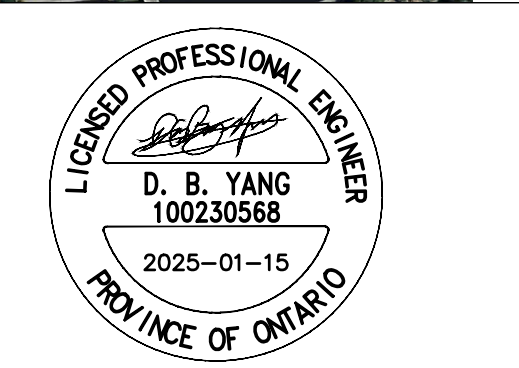
**S2O**  
 530 N. WOOD STREET #C  
 CHICAGO, IL 60622  
 (224) 717-1999  
 FOOD AND BEVERAGE

**CSW**  
 319 MCRAE AVENUE, SUITE 502  
 OTTAWA, ONTARIO K1Z 0B9  
 (613) 729-4536  
 LANDSCAPE ARCHITECT

**wsp**  
 2011 QUEENVIEW DR.  
 OTTAWA, ONTARIO K2B 8K2  
 (613) 829-2800  
 CIVIL ENGINEER

NO.	DESCRIPTION	DATE
5	REVISED AS PER CITY COMMENTS	2025-01-15
4	ISSUED FOR COORDINATION	2024-12-20
3	ISSUED FOR 90% DD - CLASS B ESTIMATE	2024-11-15
2	REVISED AS PER CITY COMMENTS	2024-09-13
1	ISSUED FOR SPA	2024-09-07

**REVISIONS/ ISSUES**  
 CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND REPORT ANY OMISSIONS OR DISCREPANCIES TO THE ARCHITECT BEFORE PROCEEDING WITH THE WORK. **DO NOT SCALE THE DRAWINGS**



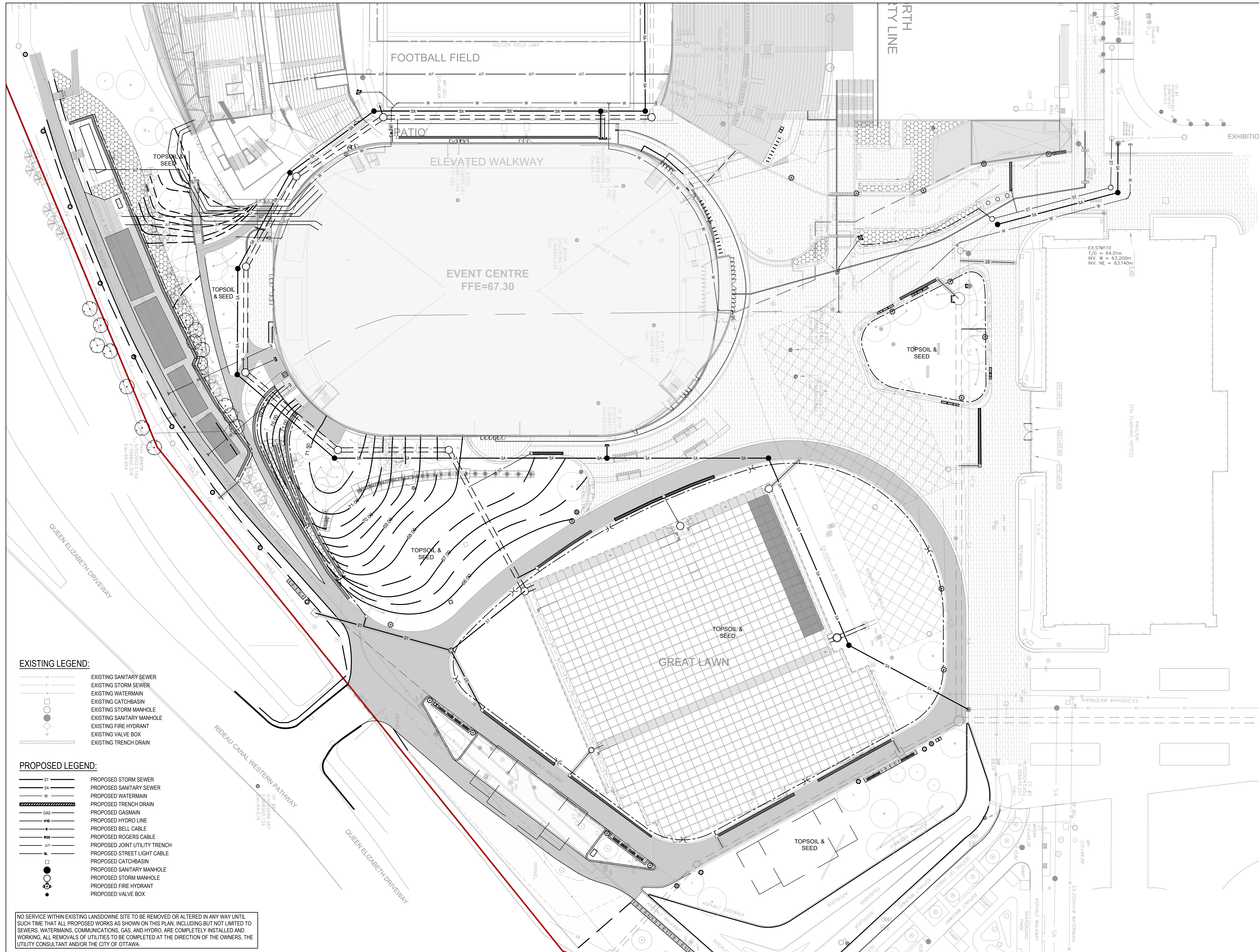
DRAWN: J.T.  
 DATE: 2025/01/15  
 CHECKED: W.Y.

**LANSDOWNE EVENT CENTRE**  
 945 & 1015 BANK STREET

DWG. TITLE: **EROSION AND SEDIMENT CONTROL PLAN**

SCALE: 1:400 DWG. NO.: **C06**  
 PROJ. NO.: CA0033920.1056





- EXISTING LEGEND:**
- SA ——— EXISTING SANITARY SEWER
  - ST ——— EXISTING STORM SEWER
  - W ——— EXISTING WATERMAIN
  - ——— EXISTING CATCHBASIN
  - ——— EXISTING STORM MANHOLE
  - ——— EXISTING SANITARY MANHOLE
  - ——— EXISTING FIRE HYDRANT
  - ——— EXISTING VALVE BOX
  - — — EXISTING TRENCH DRAIN

- PROPOSED LEGEND:**
- ST ——— PROPOSED STORM SEWER
  - SA ——— PROPOSED SANITARY SEWER
  - W ——— PROPOSED WATERMAIN
  - — — PROPOSED TRENCH DRAIN
  - — — PROPOSED GASMAIN
  - — — PROPOSED HYDRO LINE
  - — — PROPOSED BELL CABLE
  - — — PROPOSED ROGERS CABLE
  - — — PROPOSED JOINT UTILITY TRENCH
  - — — PROPOSED STREET LIGHT CABLE
  - ——— PROPOSED CATCHBASIN
  - ——— PROPOSED SANITARY MANHOLE
  - ——— PROPOSED STORM MANHOLE
  - ——— PROPOSED FIRE HYDRANT
  - ——— PROPOSED VALVE BOX

NO SERVICE WITHIN EXISTING LANSDOWNE SITE TO BE REMOVED OR ALTERED IN ANY WAY UNTIL SUCH TIME THAT ALL PROPOSED WORKS AS SHOWN ON THIS PLAN, INCLUDING BUT NOT LIMITED TO SEWERS, WATERMANS, COMMUNICATIONS, GAS, AND HYDRO, ARE COMPLETELY INSTALLED AND WORKING. ALL REMOVALS OF UTILITIES TO BE COMPLETED AT THE DIRECTION OF THE OWNERS, THE UTILITY CONSULTANT AND/OR THE CITY OF OTTAWA.



**BREBIN BROOK BEYON ARCHITECTS**  
 14 DUNCAN ST 4TH FLOOR  
 TORONTO, ON M5H 3G8  
 (416) 591-8999  
 ARCHITECT

**ENTUITIVE**  
 135 LAURIER AVE WEST, SUITE 413  
 OTTAWA, ON K1P 5J2  
 (343) 308-9274  
 STRUCTURAL ENGINEER

**TMP**  
 200 KING ST. WEST, SUITE 310  
 TORONTO, ON M5H 3T4  
 (416) 499-8000  
 MECH. PLUMB. FIRE PROTECTION ENGINEER

**MULVEY & BANANI**  
 90 SHEPPARD AVE EAST, SUITE 500  
 TORONTO, ON M2N 3A  
 (416) 751-2520  
 ELEC. LIGHTING ENGINEER

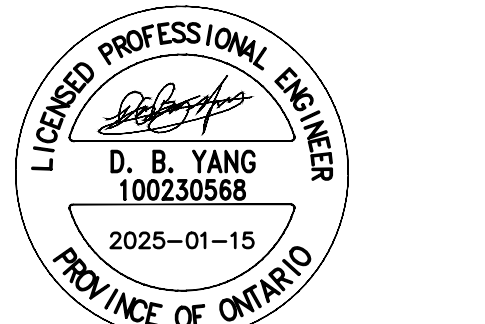
**S2O**  
 530 N. WOOD STREET #C  
 CHICAGO, IL 60622  
 (224) 717-1999  
 FOOD AND BEVERAGE

**CSW**  
 319 MCRAE AVENUE, SUITE 502  
 OTTAWA, ONTARIO K1Z 0B9  
 (613) 729-4536  
 LANDSCAPE ARCHITECT

**wsp**  
 2011 QUEENVIEW DR.  
 OTTAWA, ONTARIO K2B 8K2  
 (613) 829-2800  
 CIVIL ENGINEER

NO.	DESCRIPTION	DATE
5	REVISED AS PER CITY COMMENTS	2025-01-15
4	ISSUED FOR COORDINATION	2024-12-20
3	ISSUED FOR 90% DD - CLASS B ESTIMATE	2024-11-15
2	REVISED AS PER CITY COMMENTS	2024-09-13
1	ISSUED FOR SPA	2024-09-07

**REVISIONS/ ISSUES**  
 CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND REPORT ANY OMISSIONS OR DISCREPANCIES TO THE ARCHITECT BEFORE PROCEEDING WITH THE WORK. **DO NOT SCALE THE DRAWINGS**



DRAWN J.T  
 DATE 2025/01/15  
 CHECKED W.Y

**LANSDOWNE EVENT CENTRE**  
 945 & 1015 BANK STREET

DWG. TITLE  
**COMPOSITE UTILITY PLAN**

SCALE 1:400  
 PROJ. NO. CA0033920.1056  
 DWG. NO. C07

DATE PLOTTED:

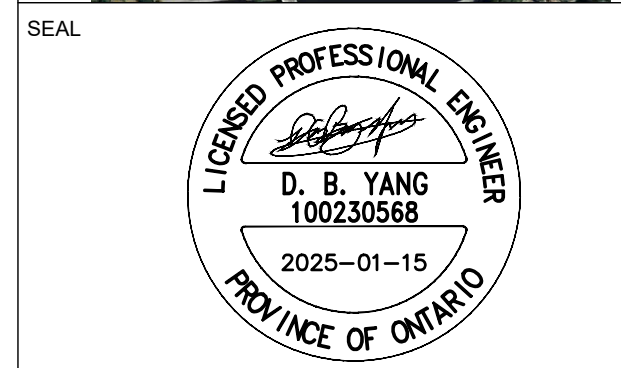
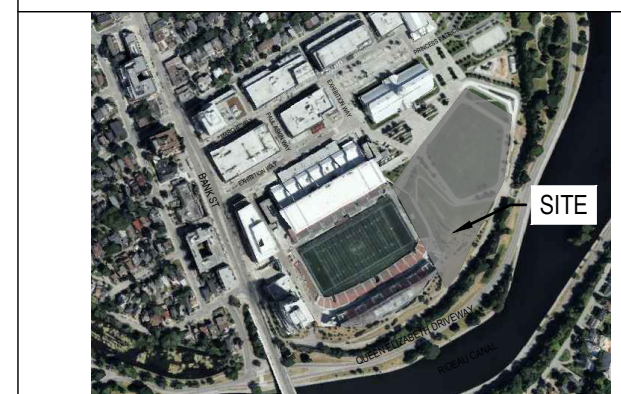
#19172





NO.	DESCRIPTION	DATE
5	REVISED AS PER CITY COMMENTS	2025-01-15
4	ISSUED FOR COORDINATION	2024-12-20
3	ISSUED FOR 90% DD - CLASS B ESTIMATE	2024-11-15
2	REVISED AS PER CITY COMMENTS	2024-09-13
1	ISSUED FOR SPA	2024-09-07

**REVISIONS/ ISSUES**

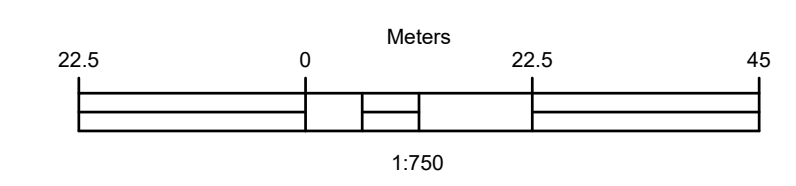


DRAWN: J.T  
 DATE: 2025/01/15  
 CHECKED: W.Y

**LANSDOWNE EVENT CENTRE**  
 945 & 1015 BANK STREET

DWG. TITLE: **POST-DRAINAGE AREA PLAN**

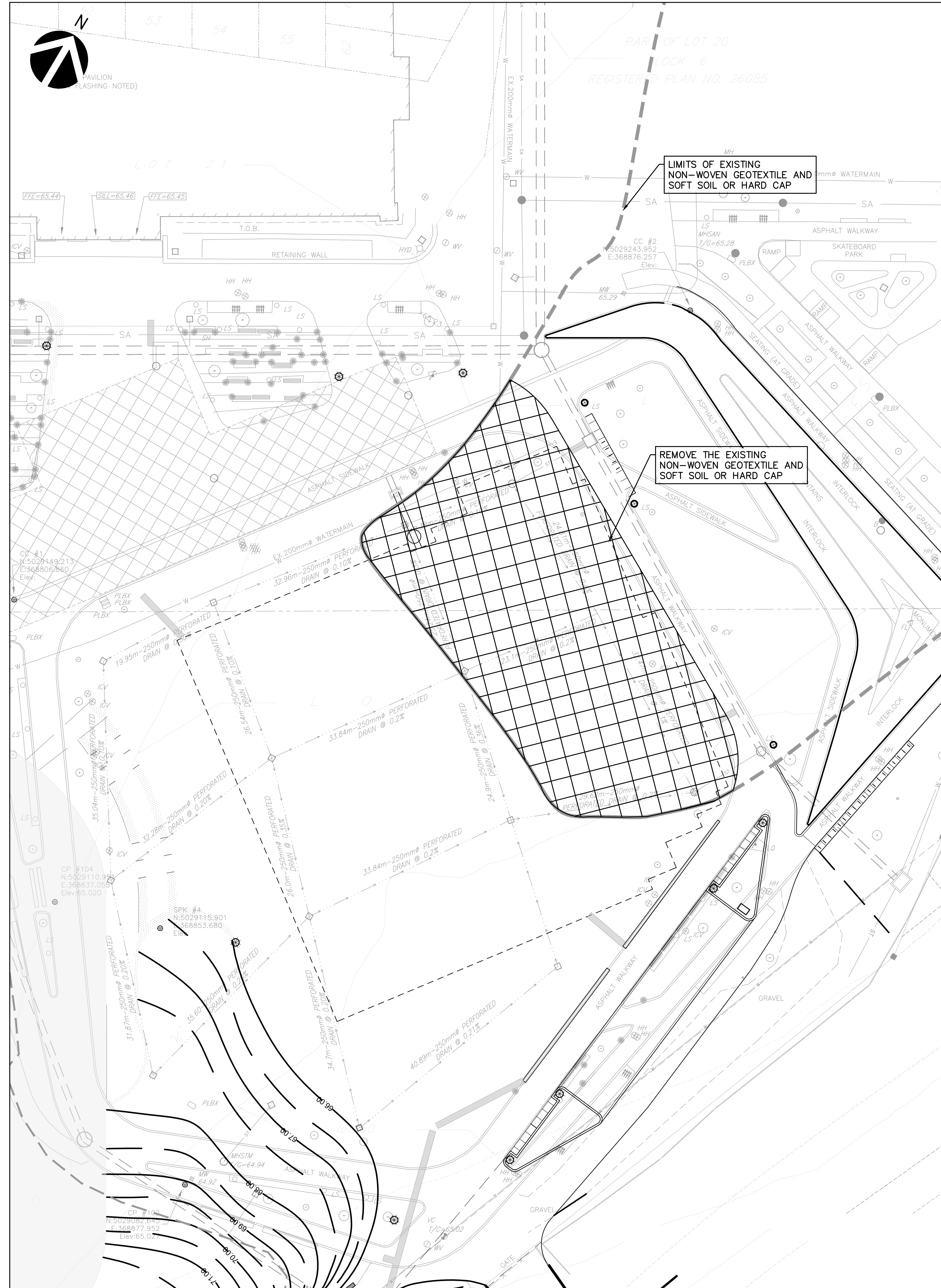
SCALE: 1:750  
 DWG. NO.: **C08**  
 PROJ. NO.: CA0033920.1056



DATE PLOTTED:

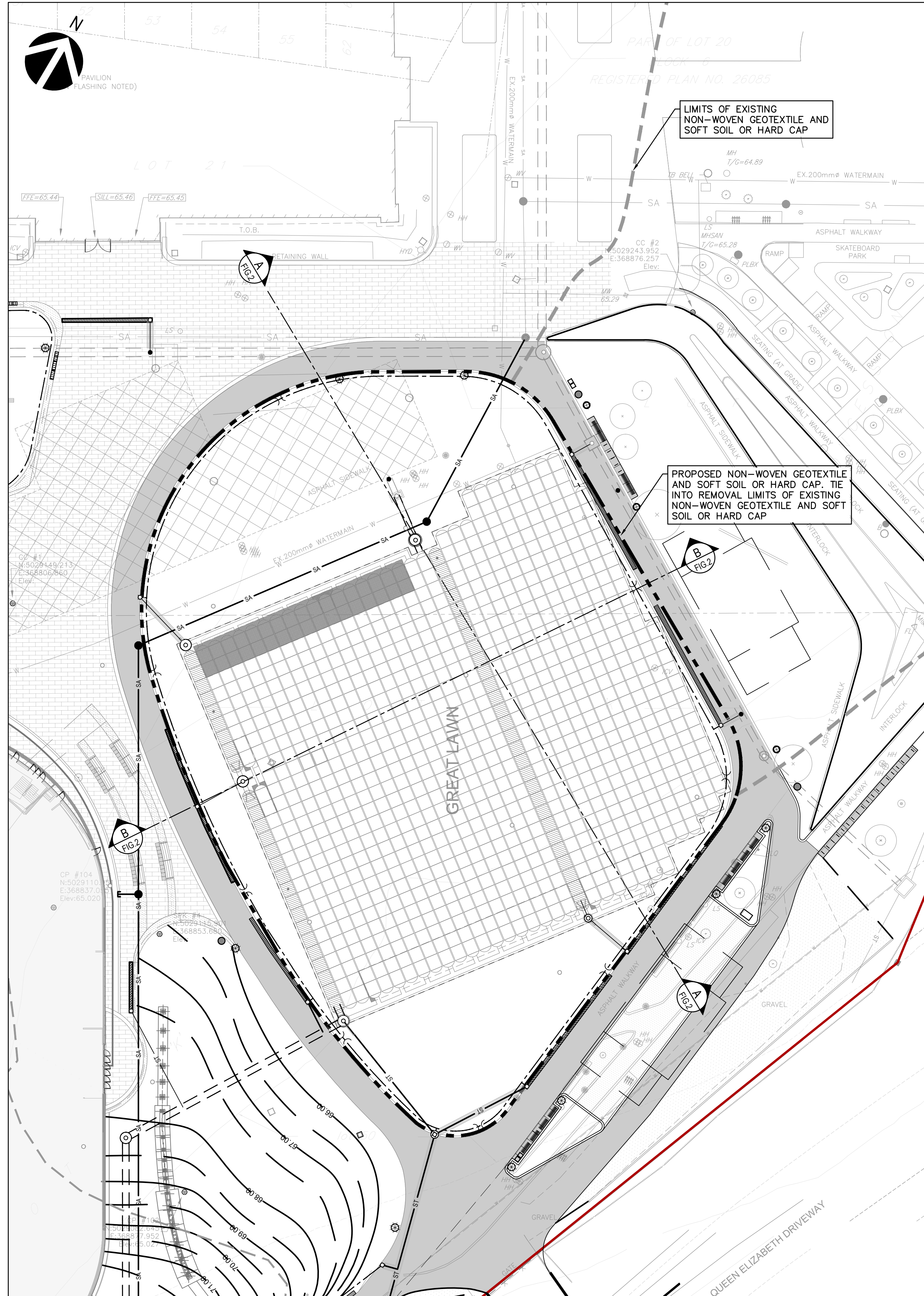
#07-12-24-0082  
 #19172





1 EX. NON-WOVEN GEOTEXTILE AND SOFT SOIL OR HARD CAP REMOVAL  
SCALE: 1:400

FIG.1



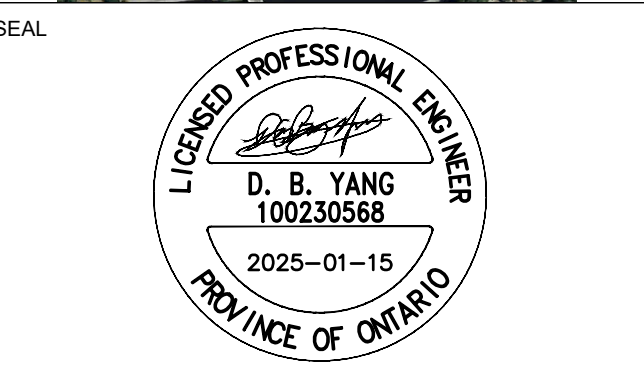
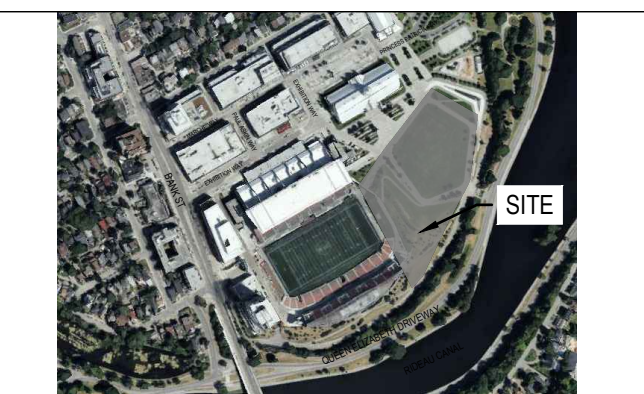
2 PROPOSED NON-WOVEN GEOTEXTILE AND SOFT SOIL OR HARD CAP  
SCALE: 1:400

FIG.1

NO.	DESCRIPTION	DATE
5	REVISED AS PER CITY COMMENTS	2025-01-15
4	ISSUED FOR COORDINATION	2024-12-20
3	ISSUED FOR 90% DD - CLASS B ESTIMATE	2024-11-15
2	REVISED AS PER CITY COMMENTS	2024-09-13
1	ISSUED FOR SPA	2024-09-07

REVISIONS/ ISSUES

CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND REPORT ANY OMISSIONS OR DISCREPANCIES TO THE ARCHITECT BEFORE PROCEEDING WITH THE WORK. DO NOT SCALE THE DRAWINGS



DRAWN	J.T
DATE	2025/01/15
CHECKED	W.Y

**LANSDOWNE EVENT CENTRE**  
945 & 1015 BANK STREET

DWG. TITLE  
**LANSDOWNE 2.0 RISK MANAGEMENT GREAT LAWN AREA PLAN**

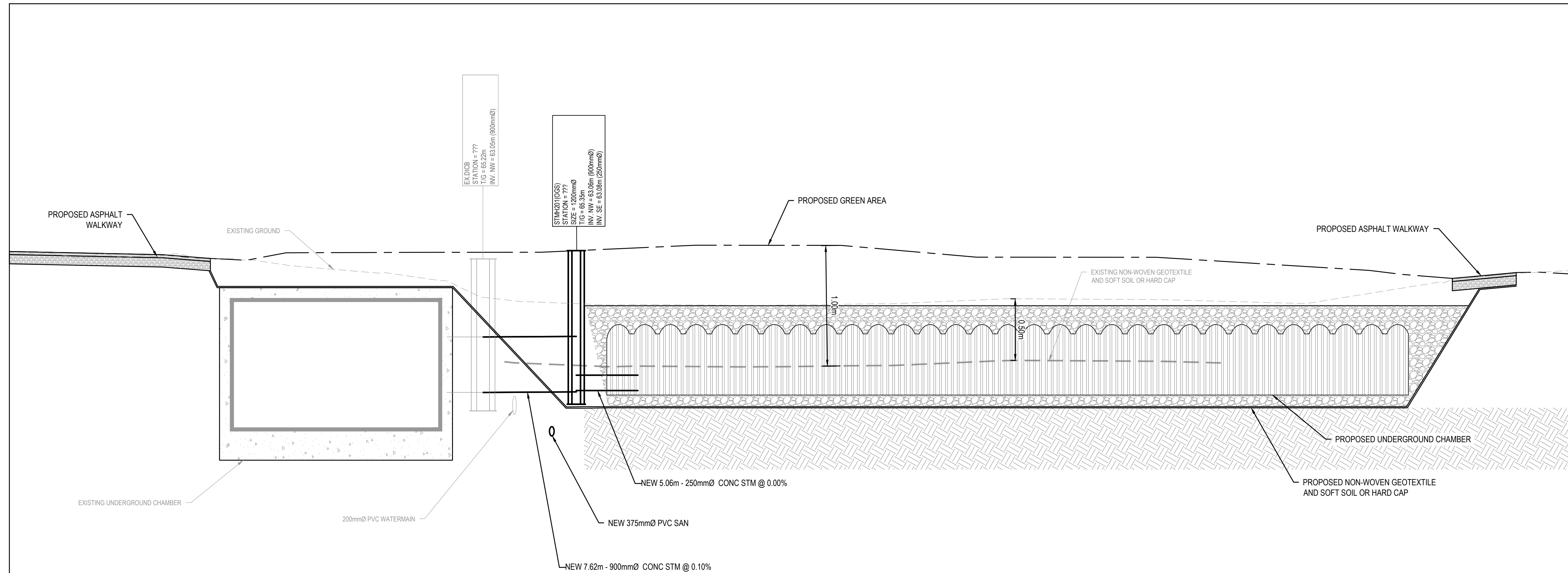
SCALE	1:400	DWG. NO.	C09
PROJ. NO.	CA0033920.1056		

DATE PLOTTED:

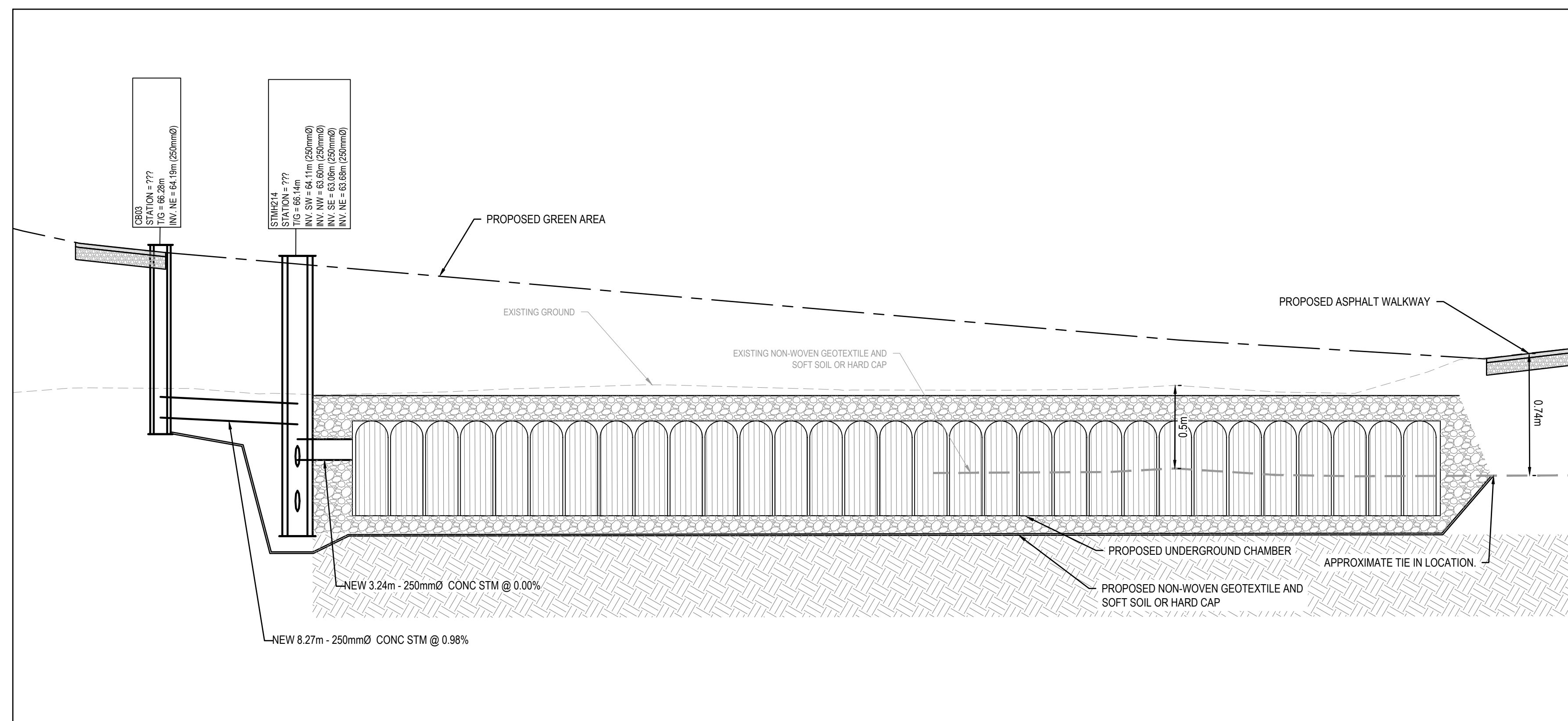
#007-12-24-0082

#19172





**A UNDERGROUND CHAMBER CROSS SECTION A**  
 SCALE: H 1:200, V 1:40

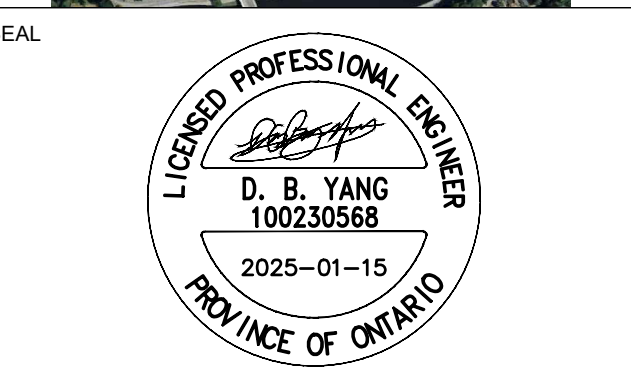
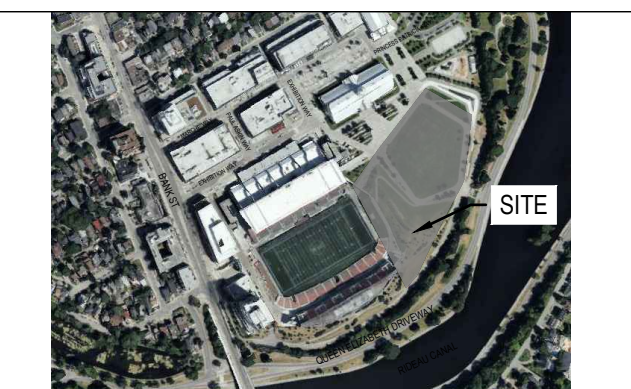


**B UNDERGROUND CHAMBER CROSS SECTION B**  
 SCALE: H 1:200, V 1:40

NO.	DESCRIPTION	DATE
5	REVISED AS PER CITY COMMENTS	2025-01-15
4	ISSUED FOR COORDINATION	2024-12-20
3	ISSUED FOR 90% DD - CLASS B ESTIMATE	2024-11-15
2	REVISED AS PER CITY COMMENTS	2024-09-13
1	ISSUED FOR SPA	2024-08-07

**REVISIONS/ ISSUES**

CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND REPORT ANY OMISSIONS OR DISCREPANCIES TO THE ARCHITECT BEFORE PROCEEDING WITH THE WORK. **DO NOT SCALE THE DRAWINGS**



DRAWN	J.T
DATE	2025/01/15
CHECKED	W.Y

**LANSDOWNE EVENT CENTRE**  
 945 & 1015 BANK STREET

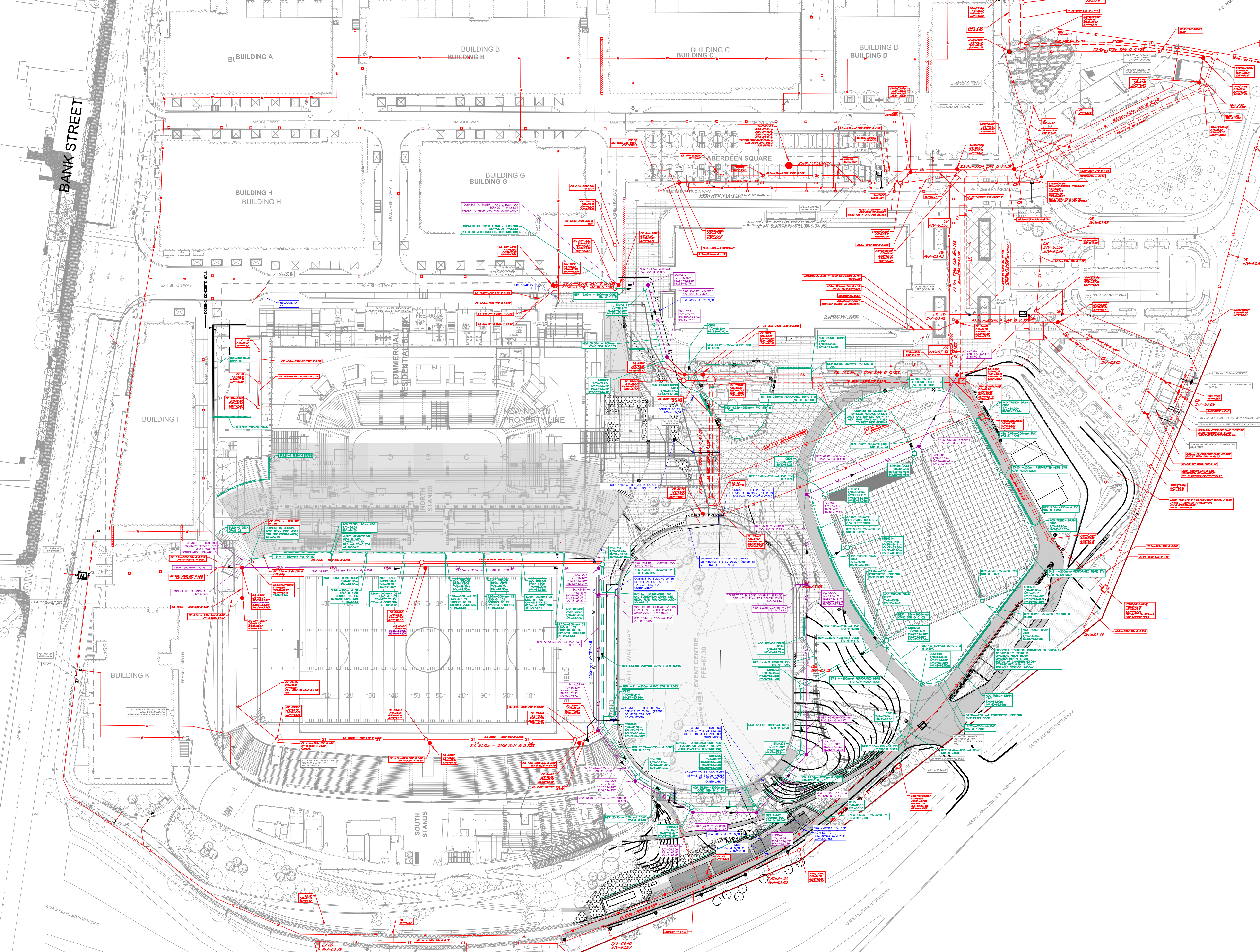
DWG. TITLE  
**UNDERGROUND CHAMBER CROSS SECTION**

SCALE	1:200	DWG. NO.	FIG.2
PROJ. NO.	CA0033920.1056		



HOLMWOD AVENUE

BANK STREET



BRISBROOK BEYON ARCHITECTS  
14 DUNCAN ST 4TH FLOOR  
TORONTO, ON M5H 3G8  
(416) 591-8999

ENTUITIVE  
135 LAURIER AVE WEST, SUITE 413  
OTTAWA, ON K1P 5J2  
(343) 308-9274

TAMP  
200 KING ST. WEST, SUITE 310  
TORONTO, ON M5H 3T4  
(416) 499-8000

MULVEY & BANANI  
90 SHEPPARD AVE EAST, SUITE 500  
TORONTO, ON M2N 3A  
(416) 751-2520

S2O  
530 N. WOOD STREET #C  
CHICAGO, IL 60622  
(224) 717-1999

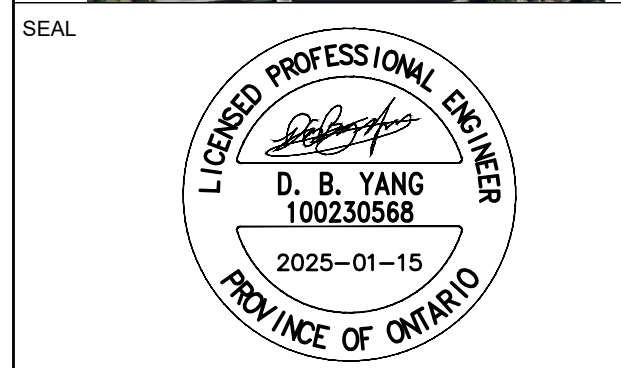
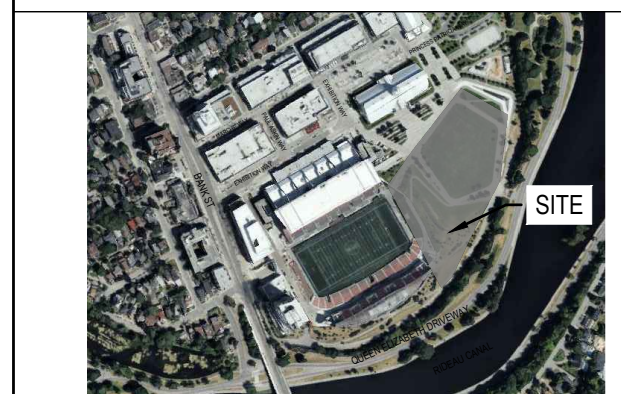
CSW  
319 MCRAE AVENUE, SUITE 502  
OTTAWA, ONTARIO K1Z 0B9  
(613) 729-4536

WSP  
2011 QUEENSVIEW DR.  
OTTAWA, ONTARIO K2B 8K2  
(613) 829-2800

5	REVISED AS PER CITY COMMENTS	2025-01-15
4	ISSUED FOR COORDINATION	2024-12-30
3	ISSUED FOR SOI DD - CLASS B ESTIMATE	2024-11-15
2	REVISED AS PER CITY COMMENTS	2024-09-13
1	ISSUED FOR SPA	2024-08-07

REVISIONS/ ISSUES

CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND REPORT ANY OMISSIONS OR DISCREPANCIES TO THE ARCHITECT BEFORE PROCEEDING WITH THE WORK. DO NOT SCALE THE DRAWINGS.



DRAWN J.T  
DATE 2025/01/15  
CHECKED W.Y

LANSDOWNE EVENT CENTRE  
945 & 1015 BANK STREET

DWG. TITLE  
OVERALL SERVICING PLAN

SCALE 1:750 DWG. NO. C12  
PROJ. NO. CA0033920.1056

DATE PLOTTED:

#19172