LANDSCAPE DRAWINGS

- 3. THE POSITION OF EXISTING POLE LINES, CONDUITS, WATERMAINS, 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.
- 4 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 POWER, COMMUNICATION AND GAS LINES.
- 5. 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 ARCHITECTS 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 GEOVERRA (ON) LTD. DATED ON JULY 13, 2022. CONTRACTOR TO VERIFY IN THE FIELD PRIOR TO CONSTRUCTION OF ANY WORK AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
- 8. ALL ELEVATIONS ARE GEODETIC AND UTILIZE METRIC UNITS. VERIFY THAT JOB BENCHMARKS HAVE NOT BEEN ALTERED OR DISTURBED.
- 9. ALL GROUND SURFACES SHALL BE EVENLY GRADED WITHOUT PONDING AREAS AND WITHOUT LOW POINTS EXCEPT WHERE APPROVED SWALE OR CATCH BASIN OUTLETS ARE PROVIDED.
- 10. 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.
- 11. 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.
- 12. ABUTTING PROPERTY GRADES TO BE MATCHED UNLESS OTHERWISE SHOWN.
- 13. 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.
- 14. MINIMIZE DISTURBANCE TO EXISTING VEGETATION DURING THE EXECUTION OF ALL WORKS.
- 15. 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.
- 16. 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
- 17. CONTRACTOR TO OBTAIN POST-CONSTRUCTION TOPOGRAPHIC SURVEY, COMPLETED BY OLS OR P.ENG CONFIRMING COMPLIANCE WITH DESIGN GRADING AND SERVICING. SURVEY IS TO INCLUDE LOCATION AND INVERTS FOR
- 18. ABIDE BY RECOMMENDATIONS OF GEOTECHNICAL REPORT. REPORT ANY VARIATIONS IN OBSERVED CONATIONS FROM THOSE INCLUDED IN REPORT.

REPORT REFERENCES

- i. SERVICING REPORT AND STORMWATER MANAGEMENT REPORT, PREPARED BY WSP CANADA INC, PROJ. NO. 221-04646-00, DECEMBER 16, 2022 ii. GEOTECHNICAL INVESTIGATION, PREPARED BY GOLDER ASSOCIATED LTD, PROJ. NO. 22524317, DECEMBER 16, 2022
- 20. PROVIDE CCTV INSPECTION REPORT FOR ALL SEWERS AND CATCHBASIN LEADS 200mm DIAMETER AND LARGER. REPEAT CCTV INSPECTION FOLLOWING RECTIFICATION OF ANY DEFICIENCIES.

NOTES: 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 ON DWG C06. 1.2. INSTALL SILTSACK FILTERS IN ALL THE CATCHBASINS AND MANHOLES TO REMAIN DURING CONSTRUCTION WITHIN THE SITE (SEE TYPICAL DETAIL). 1.3. INSPECT MEASURES IMMEDIATELY AFTER INSTALLATION.

2. DURING CONSTRUCTION:

NECESSARY

- 2.1. 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
- 2.3. PROTECT DISTURBED AREAS FROM OVERLAND FLOW BY PROVIDING TEMPORARY SWALES TO THE SATISFACTION OF THE FIELD ENGINEER. TIE-IN TEMPORARY SWALE TO EXISTING CB'S AS REQUIRED.
- 2.4. PROVIDE TEMPORARY COVER SUCH AS SEEDING OR MULCHING IF DISTURBED AREA WILL NOT BE REHABILITATED WITHIN 30 DAYS. 2.5. INSPECT SILT FENCES, FILTER FABRIC FILTERS AND CATCH BASIN SUMPS WEEKLY
- DRAWING TO BE REVIEWED AND REVISED AS REQUIRED DURING CONSTRUCTION. EROSION CONTROL FENCING TO BE ALSO INSTALLED AROUND THE BASE OF ALL

AND WITHIN 24 HOURS AFTER A STORM EVENT. CLEAN AND REPAIR WHEN

- 2.8. 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). 2.9. 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). 2.10. NO ALTERNATE METHODS OF EROSION PROTECTION SHALL BE PERMITTED UNLESS APPROVED BY THE FIELD ENGINEER.
- 2.11. CITY ROADWAY AND SIDEWALK TO BE CLEANED OF ALL SEDIMENT FROM VEHICULAR TRACKING AS REQUIRED.
- 2.12. DURING WET CONDITIONS, TIRES OF ALL VEHICLES/EQUIPMENT LEAVING THE SITE ARE TO BE SCRAPED.
- 2.13. ANY MUD/MATERIAL TRACKED ONTO THE ROAD SHALL BE REMOVED IMMEDIATELY BY HAND OR RUBBER TIRE LOADER. 2.14. 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 2.15. 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 2.16. 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.

## NOTES: WATERMAIN

- 1. ALL WATERMAIN AND WATERMAIN APPURTANANCES, MATERIALS, CONSTRUCTION AND TESTING METHODS SHALL CONFORM TO THE CURRENT NOTES: STORM SEWERS AND STRUCTURES CITY OF OTTAWA AND MINISTRY OF ENVIRONMENT STANDARDS AND SPECIFICATIONS.
- 2. ALL WATERMAIN 300mm DIAMETER AND SMALLER TO BE POLY VINYL CHLORIDE (PVC) CLASS 150 DR 18 MEETING AWWA SPECIFICATION C900.
- 3. ALL WATERMAIN TO BE INSTALLED AT MINIMUM COVER OF 2.4m BELOW 17. STORM SEWERS 450mm DIAMETER AND SMALLER SHALL BE PVC SDR-35, WITH FINISHED GRADE. WHERE WATERMAINS CROSS OVER OTHER UTILITIES, A MINIMUM 0.30m CLEARANCE SHALL BE MAINTAINED; WHERE WATERMAINS 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 20. ALL STORM MANHOLES TO BE AS PER STORM STRUCTURE TABLE ON DRAWING STANDARD W23.
- 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.
- VALVES AND ASSEMBLES SHALL BE INSTALLED AS PER CITY OF OTTAWA STANDARD
- 7. 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.
- 8. IF WATER MAIN MUST BE DEFLECTED TO MEET ALIGNMENT, ENSURE THAT THE AMOUNT OF DEFLECTION USED IS LESS THAN HALF THAT RECOMMENDED BY
- 9. REFER TO LANDSCAPE DRAWINGS FOR IRRIGATION SYSTEM REQUIREMENTS

## NOTES: SANITARY SEWER AND MANHOLES

OTTAWA STANDARD W40 & W42.

THE MANUFACTURER.

INSERT 1" REBAR

FROM INLET (REBAR NOT INCLUDED) -

FOR BAG REMOVAL

OPTIONAL OVERFLOW

50mm CLEAR LIMESTONE -

REQUIRED UP TO EX

ACCESS ROAD AS

ROAD PAVEMEN

DUMP LOOPS

(REBAR NOT INCLUDED)

- 10. 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
- 11. 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.

12. SEWER BEDDING AS PER CITY OF OTTAWA DETAIL S6.

- 13. 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.
- 14. MAINTENANCE HOLE BENCHING AND PIPE OPENING ALTERNATIVES AS PER THE OPSD 701.021

Typical Siltsack® Construction - Type B

## 15. ANY SANITARY SEWER WITH LESS THAN 2.0m COVER REQUIRES THERMAL INSULATION AS PER CITY OF OTTAWA STANDARD W22, OR APPROVED BY THE ENGINEER.

- 16. 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.
- CROSS UNDER OTHER UTILITIES, A MINIMUM 0.50m CLEARANCE SHALL BE 18. STORM SEWER LARGER THAN 450mm SHALL BE REINFORCED CONCRETE CLASS
  - 19. SEWER BEDDING AS PER CITY OF OTTAWA DETAIL S6.

RUBBER GASKET PER CSA A-257.3.

- 4. CONCRETE THRUST BLOCKS AND MECHANICAL RESTRAINTS ARE TO BE 21. 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. ADD INSULATION ABOVE EXISTING STORM SEWER BETWEEN CBMH109 AND CB114
- 5. CATHODIC PROTECTION REQUIRED FOR ALL IRON FITTINGS AS PER CITY OF 22. CB IN LANDSCAPE AREAS SHALL BE AS PER CITY OF OTTAWA STANDARD S29, S30 AND S31.
- 6. ALL VALVES AND VALVE BOXES AND CHAMBERS, HYDRANTS, AND HYDRANT 23. ALL CATCHBASIN LEADS TO BE MINIMUM 200mm DIAMETER AT MINIMUM 1.0% SLOPE UNLESS OTHERWISE SPECIFIED.
  - 24. 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.
  - 25. INSTALLATION OF FLOW CONTROL ICD'S TO BE VERIFIED BY QUALITY VERIFICATION ENGINEER RETAINED BY CONTRACTOR.

## NOTES: PARKING LOT AND WORK IN PUBLIC RIGHTS OF WAY

- 1. CONTRACTOR TO REINSTATE ROAD CUTS AS PER CITY OF OTTAWA DETAIL R10.
- 2. CONTRACTOR TO PREPARE SUBGRADE, INCLUDING PROOFROLLING, TO THE SATISFACTION OF THE GEOTECHNICAL CONSULTANT PRIOR TO THE COMMENCEMENT OF PLACEMENT OF GRANULAR B MATERIAL.
- 3. 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
- 5. 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
- 7. ASPHALT MATERIAL TO BE PLACED ONLY UPON APPROVAL BY THE GEOTECHNICAL CONSULTANT OF GRANULAR A PLACEMENT.
- 8. 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.
- 9. CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING LINE AND GRADE IN ACCORDANCE WITH THE PLANS, AND FOR PROVIDING THE CONSULTANT WITH VERIFICATION PRIOR TO
- 10. 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.

11. PAVEMENT STRUCTURE (MATERIAL TYPES AND THICKNESS) FOR HEAVY DUTY. LIGHT DUTY AND BASKETBALL COURT AREAS TO BE AS SPECIFIED IN THE GEOTECHNICAL REPORT AND SHOWN ON THE PLANS

50 mm

| OPSS GRANULAR A BASE                               | 150 mm          |  |
|--|-----------------|--|
| OPSS GRANULAR B TYPE II SUBBASE                    | 300 mm          |  |
|  |                 |  |
| PAVEMENT STRUCTURE - NEW ACCESS ROAD TRAFFIC AREAS | OWAYS AND TRUCK |  |
| PAVEMENT COMPONENT                                 | THICKNESS       |  |
| SUPERPAVE 12.5 SURFACE COURSE                      | 40 mm           |  |
| ASPHALTIC CONCRETE                                 | 50 mm           |  |
| OPSS GRANULAR A BASE                               | 150 mm          |  |

PAVEMENT STRUCTURE - NEW CAR PARKING AREAS PAVEMENT COMPONENT

SUPERPAVE 12.5 SURFACE COURSE

OPSS GRANULAR B TYPE II SUBBASE

| WATERMAIN SCHEDULE |                          |          |           |             |       |  |
|--------------------|--------------------------|----------|-----------|-------------|-------|--|
| STATION            | DESCRIPTION              | FINISHED | TOP OF    | OF AS-BUILT |       |  |
|                    |                          | GRADE    | WATERMAIN | WATERMAIN   | COVER |  |
| BUILDING A         |                          |          |           |             |       |  |
| 0+000              | W/M STUB                 | 78.22    | 75.820    |             | 2.40  |  |
| 0+014.34           | 150mm VB                 | 78.02    | 75.620    |             | 2.40  |  |
| 0+023.13           | Crossing 450mmØ PVC STM  | 77.75    | 75.350    |             | 2.40  |  |
|                    | Connect to ex. 406mm W/M |          |           |             |       |  |
| 0+028.56           | with TEE                 | 77.65    | 75.250    |             | 2.40  |  |
|                    |                          |          |           |             |       |  |
| BUILDING B         |                          |          |           |             |       |  |

Connect Building Water Servic to Existing 150mm Water Serivce

TOP OF

GRATE

77.78

77.65

77.65

77.65

76.50

76.53

77.86

78.09

77.38

77.52

77.31

76.80

76.53

77.36

76.50

76.50

76.70

77.77

| SAN STRUCTURE TABLE |              |        |       |        |        |             |              |       |
|---------------------|--------------|--------|-------|--------|--------|-------------|--------------|-------|
| STRUCTURE ID        | TOP OF GRATE | INVERT |       |        |        | DESCRIPTION |              |       |
|                     | ELEVATION    | INLET  | INLET | INLET  | OUTLET | SIZE        | OPSD         | COVER |
| BUILDING 1          |              |        |       |        |        |             |              |       |
| SANMH01             | 78.02        |        |       | 74.640 | 74.620 | 1200mm DIA. | OPSD-701.010 | S24   |
| SANMH02             | 77.67        |        |       | 75.070 | 75.040 | 1200mm DIA. | OPSD-701.010 | S24   |

**STRUCTURE** 

ID

CBMH112

CB02

CB03

CB04

CBMH113

CBMH114

CBMH100

STMH101

STMH102

STMH103

STMH104

STMH105

STMH106

STMH107

CBMH108

CBMH109

STMH110

CBMH111

|                 |   | , |  |  |
|-----------------|---|---|--|--|
|                 | EXISTING UTILITY POLE                               |   | 100 YEAR + 20% PONDING LINE                              |  |
|                 |   | \\(\begin{align*} 62.29                 | PROPOSED ELEVATION                                       |  |
|                 |   | <b>₹1.5%</b>                            | PROPOSED SLOPE   |  |
| REMOVAL LEGI    | END:  |   |  |  |
|                 | BUILDING REMOVAL                                    | ESC LEGEND:                             |  |  |
| 4 4 4 4         | CONCRETE SIDEWALK<br>REMOVAL                        |   | SILT FENCING   |  |
|                 | GRAVEL PAVEMENT<br>REMOVAL                          |   | MUD MAT  |  |
|                 | ASPHALT PAVEMENT<br>REMOVAL                         |   | SILTSACK   |  |
| HYD             | EXISTING HYDRO REMOVAL                              | STORM DRAINA                            | GE LEGEND:   |  |
| ow              | EXISTING OVER HEAD WIRE REMOVAL                     | OTOTAL BIOLING                          | OL LLOLIND.  |  |
| W               | EXISTING WATERMAIN REMOVAL                          |   | STORM DRAINAGE BOUNDARY                                  |  |
| ST              | EXISTING STORM SEWER REMOVAL EXISTING FENCE REMOVAL |   |  |  |
| x               | EXISTING FENCE REMOVAL                              | ID<br>CONTROLLED                        | ID DENOTES WATERSHED NAME                                |  |
| 6—()            | EXISTING FENCE REMOVAL  EXISTING RETAINING WALL     | A C                                     | A DENOTES AREA IN HECTARES C DEONOTES RUNOFF COEFFICIENT |  |
| ₩ <sub>UP</sub> | EXISTING UTILITY POLE REMOVAL                       |   |  |  |
| *               | EXISTING TREES REMOVAL                              |   |  |  |
|                 | EXISTING TREES LINE REMOVAL                         |   |  |  |
| ×               | EXISTING CATCH BASIN REMOVAL                        |   |  |  |

Obvert Invert Clearance Clearance Type Obvert Invert

75.340 75.190 0.211 Clearance Under 76.001 75.551

75.316 75.116 0.764 Clearance Under 76.280 76.080

75.084 74.709 0.849 Clearance Over 73.860 73.454

74.321 74.696 1.405 Clearance Over 73.291 73.041

OUTLET PIPE INFO

PVC SDR-35

PVC SDR-35

PVC SDR-35

CONC. CL 100-

PVC SDR-35

CONC. CL 100-E

PVC SDR-35

PVC SDR-35

PVC SDR-35

HDPE

HDPE

**HDPE** 

HDPE

HDPE

HDPE

300 PVC SDR-35

300 | PVC SDR-35

| DIAMETER | TYPE

300

200

200

200

525

250

200

300

300

300

525

375

300

675

525

300

300

250

250

250

250

250

250

250

COVER

S28.1

S19.1

S19.1

S19.1

S28.1

OPSD 403.010

S28.1

S24.1

S24.1

S24.1

S24.1

S24.1

S24.1

S24.1

S28.1

S28.1

S24.1

S28.1

74.685 74.485 0.938 Clearance Under 76.073 75.623 *EX.450mm@PVC STM* 

PROPOSED LEGEND:

— — — — — HIGH POINT LINE

——— 100 YR ——— 100 YEAR PONDING LINE

PROPOSED PROPERTY LINE

PROPOSED EDGE O

PROPOSED SWALE

PAVEMENT AND CURB

PROPOSED WATERMAIN

PROPOSED STORM SEWER

PROPOSED SANITARY SEWER

PROPOSED STORM MANHOLE

PROPOSED SANITARY MANHOLE

PROPOSED CATCH BASIN

PROPOSED WATER VALVE

OVER FLOW DIRECTION

TERRACING LINE

DOOR ENTRANCE

PROPOSED BUILDING

Pipe Size and Type

EX.450mm Ø PVC STM

200mmØ PVC STM

EX.406mm Ø W/M

EX.250mm Ø PVC SAN

ICD TYPE

Hydrovex 75VHV-1

0.18 m Circ Orifice

Hydrovex 75VHV-1

Hydrovex 125VHV-2

Hydrovex 75VHV-1

ICD INFO

|HEAD (m) | FLOW (l/s) |

2.62

0.74

1.9

2.63

17

EXISTING LEGEND:

Pipe Size and Type

150mmØ PVC WM

200mmØ PVC SAN

200mmØ PVC SAN

375mmØ PVC STM

375mmØ PVC STM

STRUCTURE INFO

76.360

75.630

75.150

75.040

74.520

76.250

75.350

74.790

74.690

74.420

74.220

75.910

74.800

74.850

74.550

75.200

SIZE

1200mm DIA.

600X600mm

1200mm DIA.

1200mm DIA.

1200mm DIA.

1200mm DIA.

1200mm DIA.

L200mm DIA.

1200mm DIA.

L200mm DIA.

1200mm DIA.

L200mm DIA.

1200mm DIA.

| INLET | INLET | INLET | OUTLET

75.000 | 74.850

74.370 | 74.220 |

75.300 | 75.220

76.280

74.850

74.750

74.450

74.790

75.960

74.820

75.000

74.690

\*Note: Provide Concrete Encased for corssing clearance less than 0.3m

STORM STRUCTURE TABLE

**BUILDING 1** 

600X600mm | OPSD 705.010

600X600mm | OPSD 705.010

1200mm DIA. | OPSD 701.010

1200mm DIA. | OPSD 701.010

1200mm DIA. | OPSD 701.010

——— — APPROXIMATE LOT LINE

EXISTING EDGE OF

EXISTING FENCE

EXISTING SWALE

EXISTING WATERMAIN

EXISTING STORM SEWER

EXISTING SANITARY SEWER

EXISTING OVER HEAD WIRE

EXISTING OVER HEAD WIRE

EXISTING TOP OF SLOPE

EXISTING BUILDING

EXISTING RETAINING WALL

EXISTING STORM MANHOLE

EXISTING SANITARY MANHOLE

EXISTING CATCH BASIN

EXISTING WATER VALVE

EXISTING LIGHT STANDARD

EXISTING ELEVATION

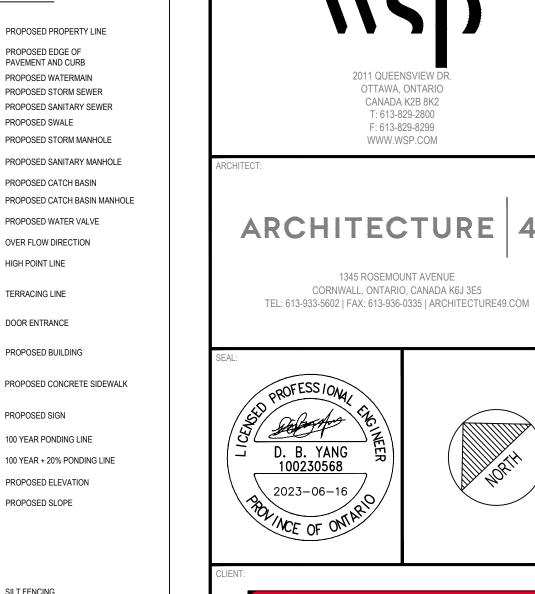
EXISTING TREES

EXISTING TREES LINE

EXISTING CONCRETE WALKWAY

PAVEMENT AND CURB

EXISTING UNDERGROUND HYDRO





864 LADY ELLEN PLACE.



ED WITHOUT WRITTEN PERMISSION BY WSP. THE CONTRACTOR SHALL CHECK AND VERIFY AL SIONS AND UTILITY LOCATIONS AND REPORT ALL ERRORS AND OMISSIONS PRIOR TO IS DRAWING IS NOT TO BE SCALED.

2023-06-16 REVISED AS PER CITY COMMENTS 2023-04-17 REVISED AS PER CITY COMMENTS 2022-12-16 ISSUED FOR SPA 221-04646-00 JUNE 2023 F THIS BAR IS NOT 25mi PLOTTING SCALE.

CIVIL

NOTES AND DETAILS

ET NUMBER:

REVISED AS PER CITY COMMENTS ATE OF: 2023-06-16

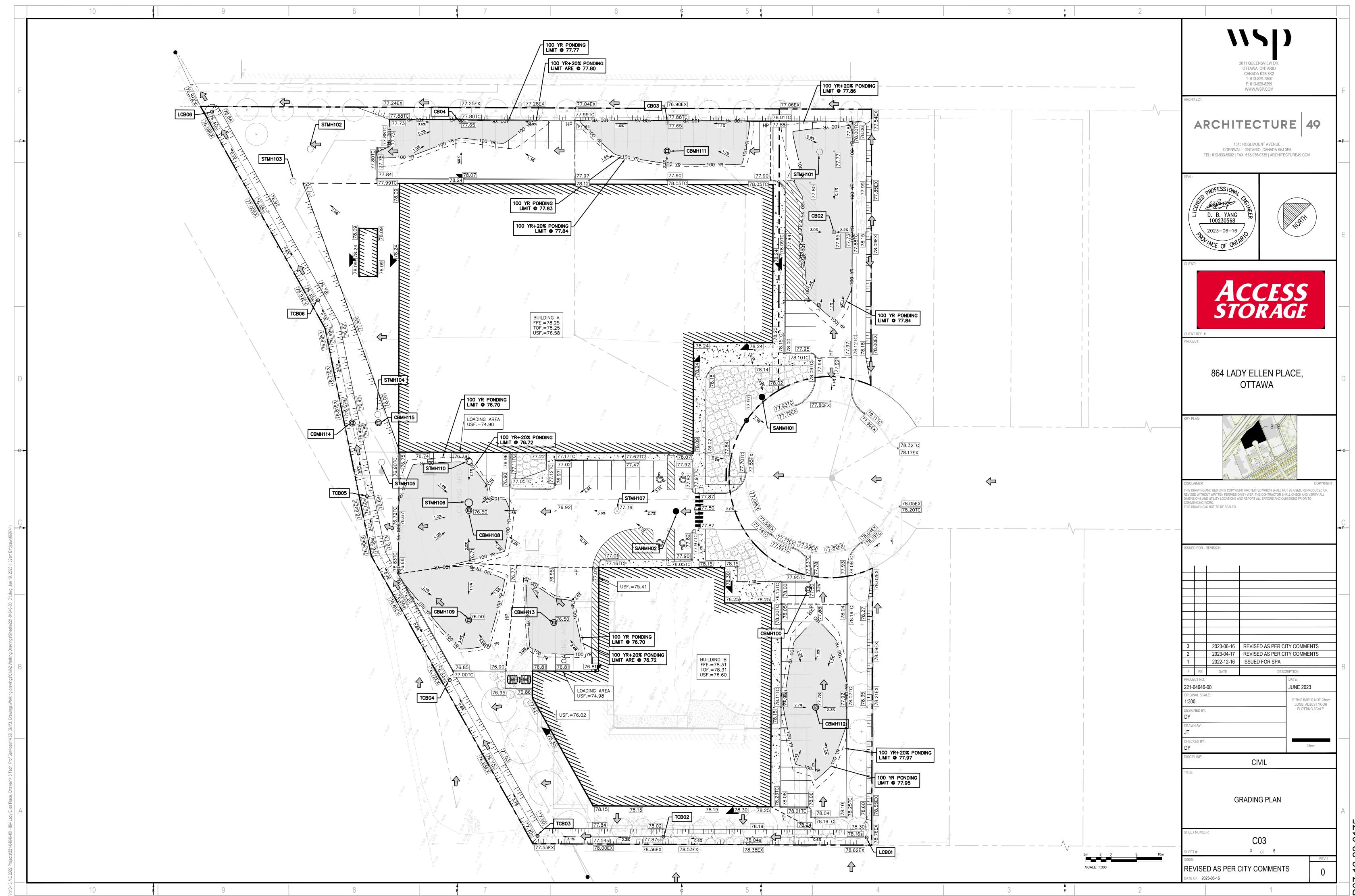
CBMH115 74.75 OPSD 701.010 S28.1 74.470 74.410 1200mm DIA. LCB01 78.20 77.160 300mm DIA S30 S30 TCB02 77.87 76.870 76.870 S30 S30 300mm DIA TCB03 77.20 76.200 76.200 300mm DIA. S30 S30 TCB04 76.54 75.540 75.540 300mm DIA S30 S30 ALL CONSTRUCTION TRAFFIC TCB05 76.49 75.000 S30 75.000 300mm DIA S30 TO CROSS MUD MAT WHEN LCB06 76.40 75.500 S30 S30 | 300mm DIA EXITING THE SITE TCB07 76.45 75.250 75.250 300mm DIA S30 -RIPRAP STONE (100mm TO 150mm SIZE TWO LAYERS THICK)

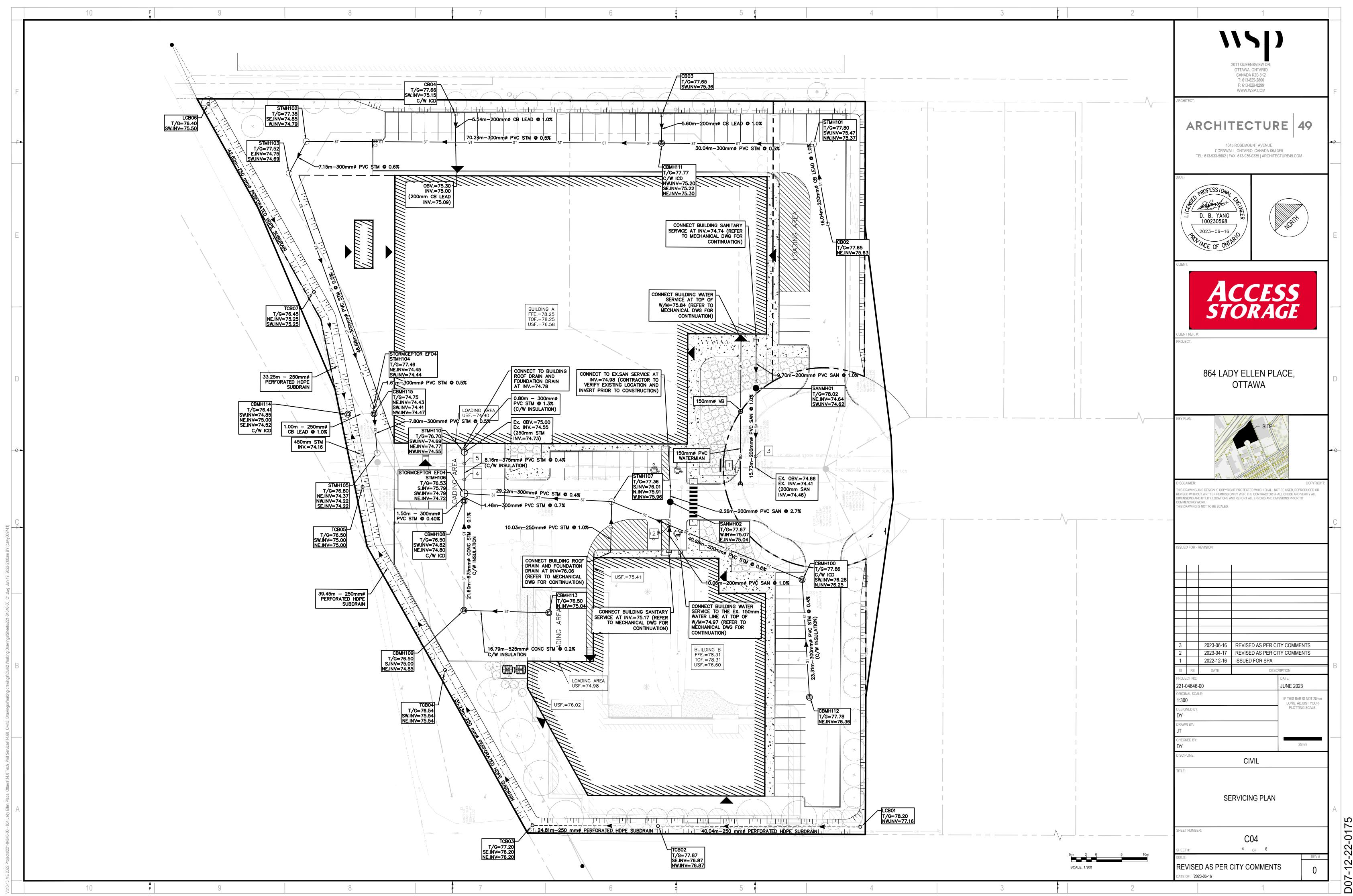
PROVIDE GEOTEXTILE FILTER-CLOTH PRIOR TO PLACING MUD MAT DETAIL - PLAN VIEW

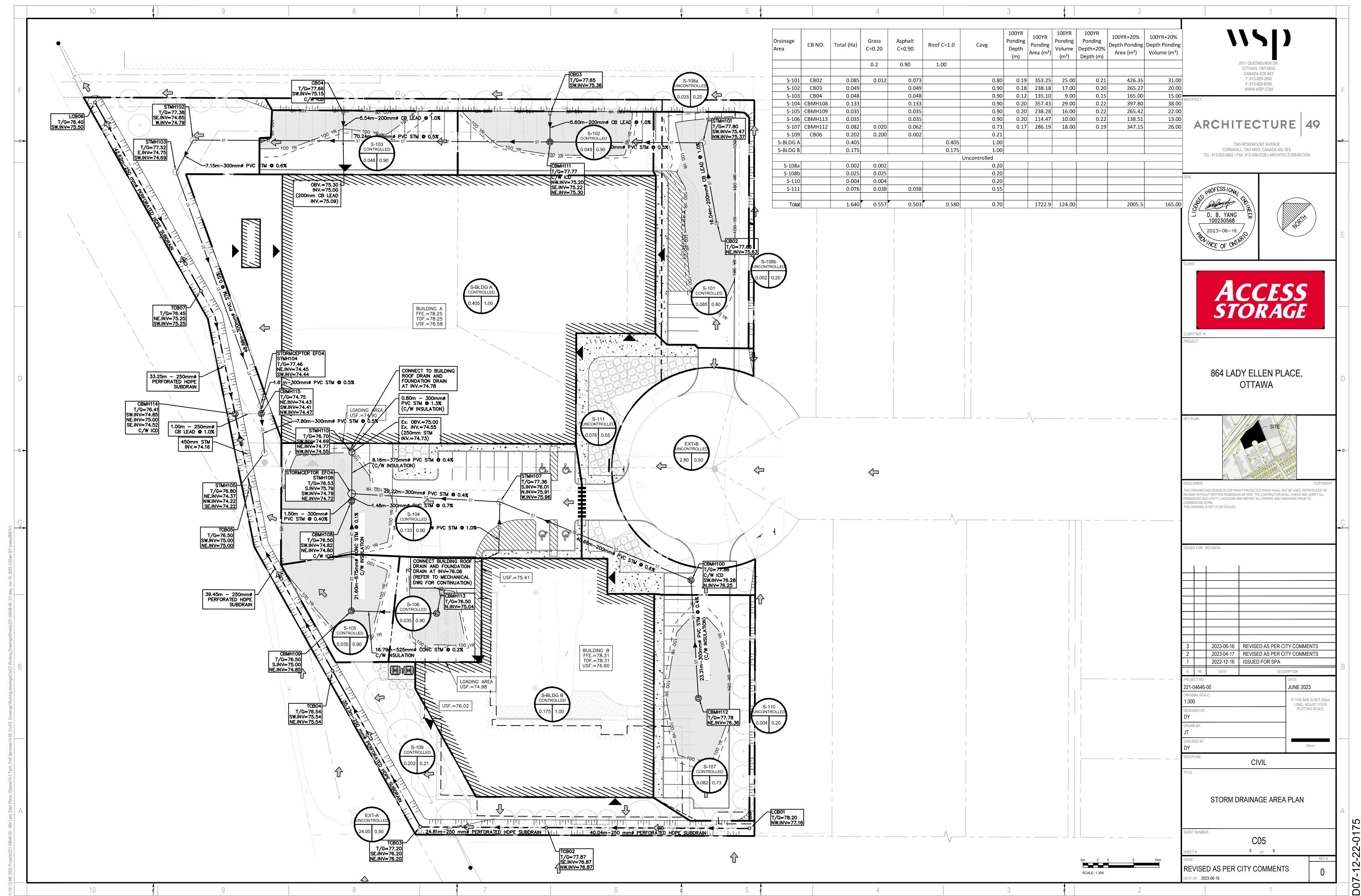
6.0m MIN.

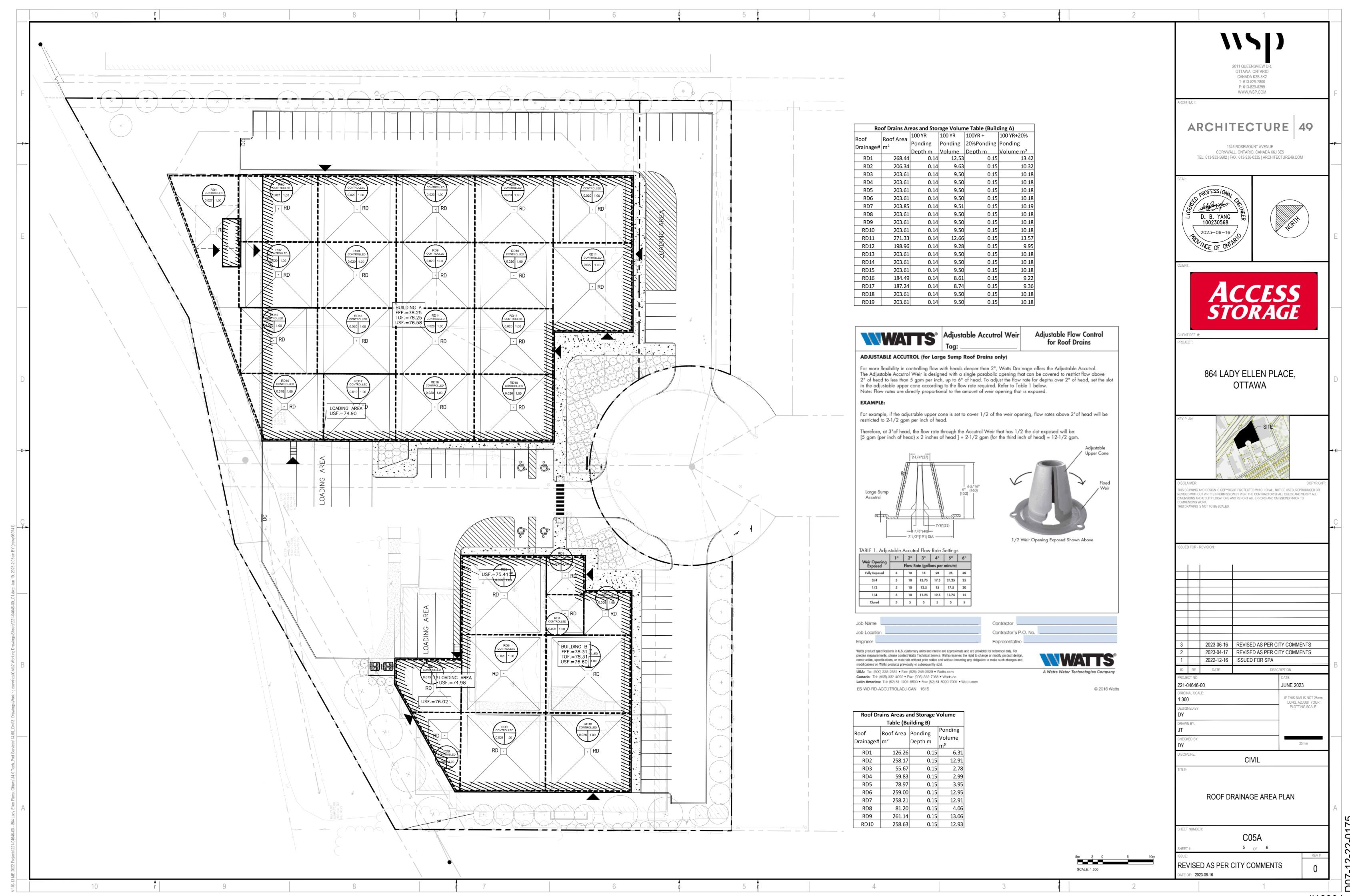
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