

CISCO SYSTEMS Inc. OTTAWA CAMPUS MECANICAL AUXILLARY BUILDING

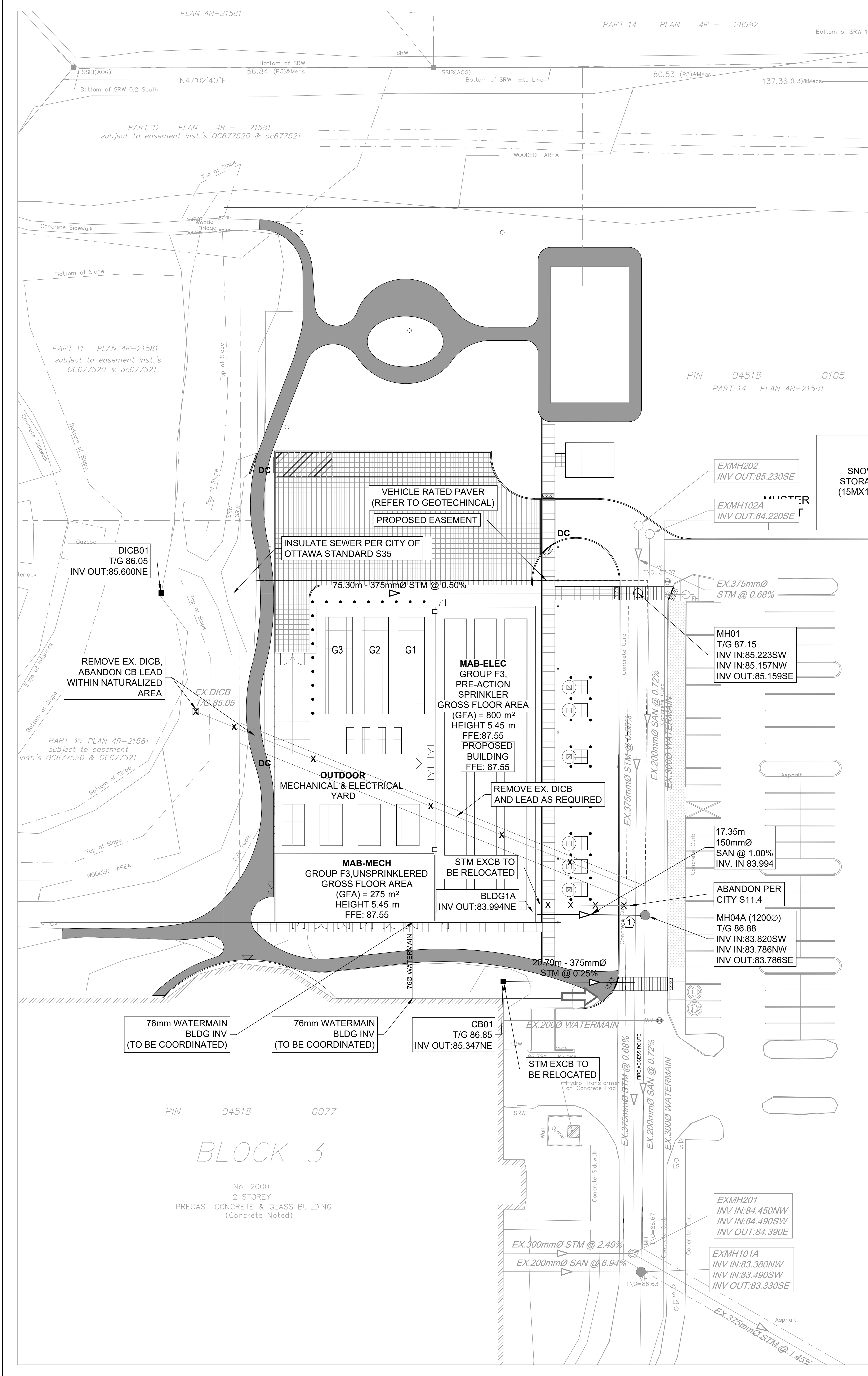


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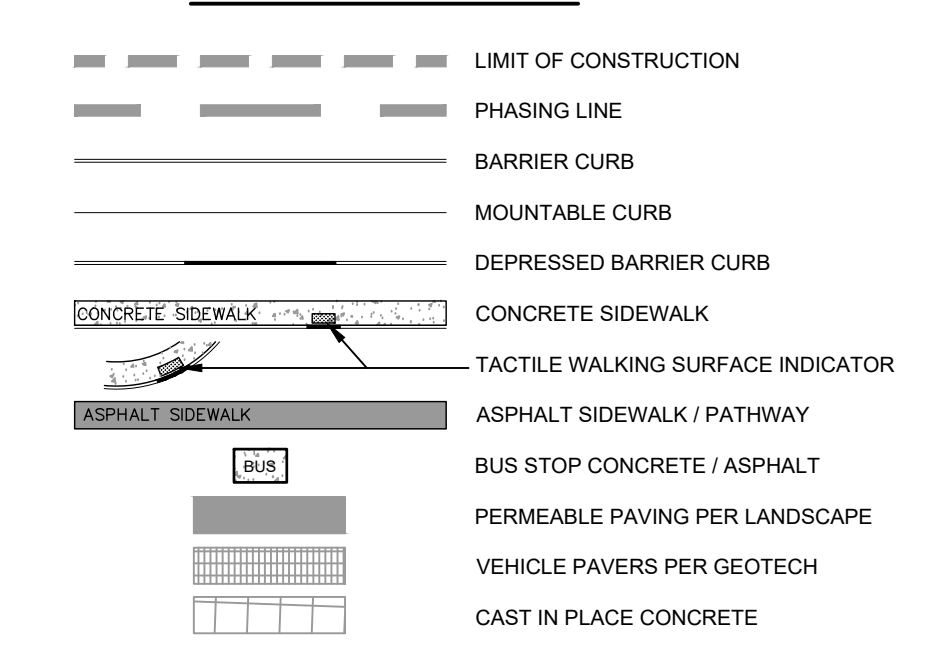


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-	COVER
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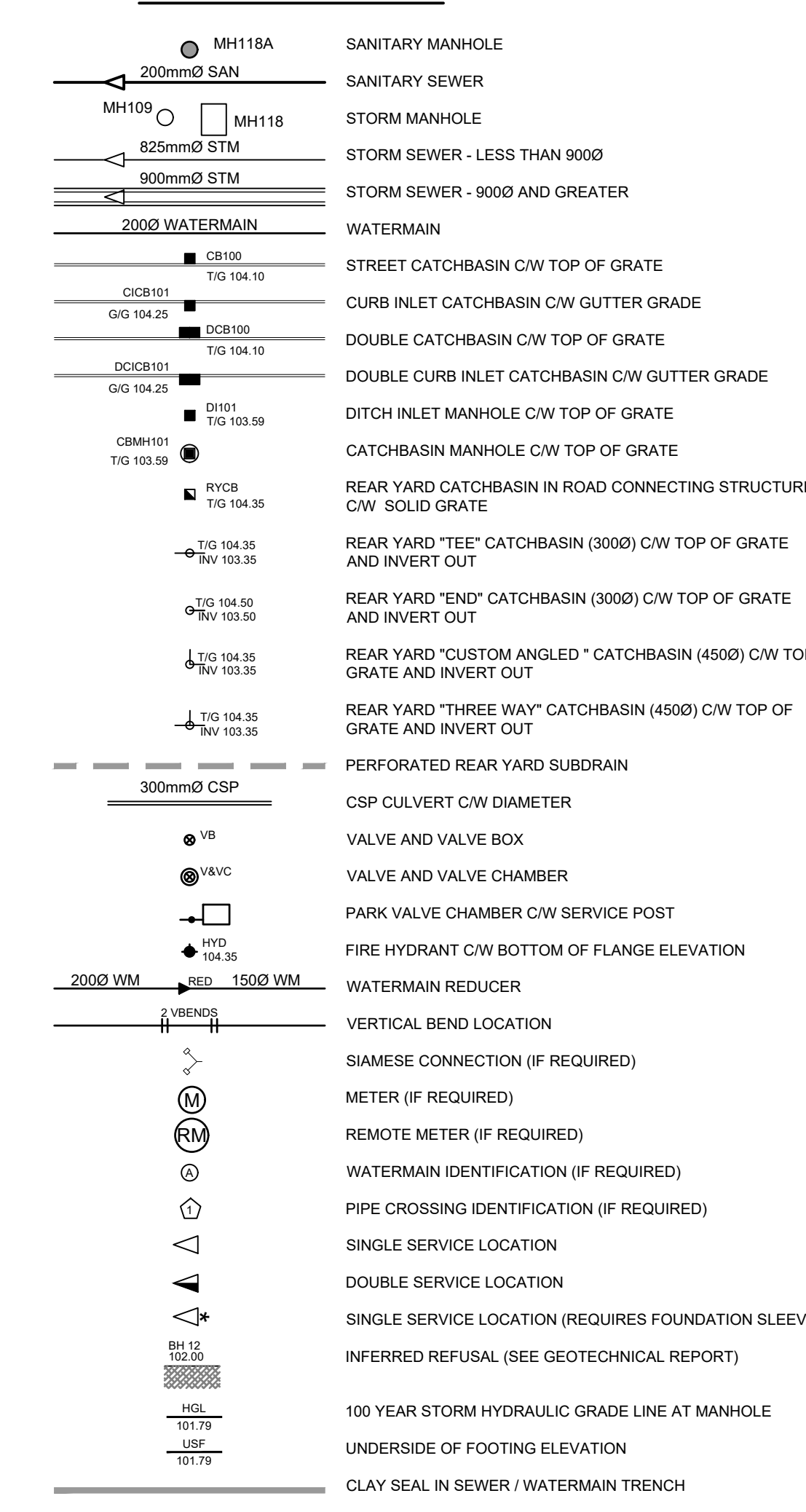
CISCO OTT01 - MAB 30298433



GENERAL LEGEND



SERVICING LEGEND

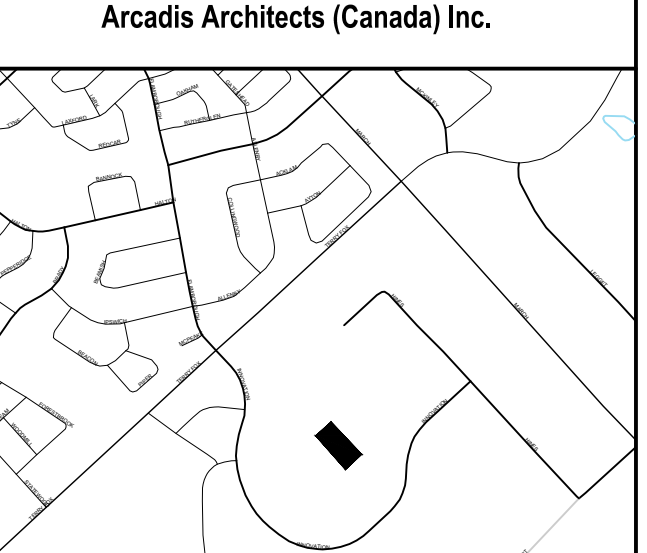


NOTES

1. ALL MATERIALS AND CONSTRUCTION IS TO BE IN ACCORDANCE WITH THE CURRENT CITY OF OTTAWA STANDARD DRAWINGS & SPECIFICATIONS OR OPS/DIPS IF CITY DRAWINGS AND SPECIFICATIONS DO NOT APPLY.
2. THE POSITION OF UNDERGROUND AND ABOVE GROUND SERVICE, UTILITIES AND STRUCTURES ARE NOT NECESSARILY SHOWN ON THE CONTRACT DRAWINGS AND WHERE SHOWN, THE ACCURACY OF THE POSITION OF SUCH SERVICE, UTILITIES AND STRUCTURES IS NOT GUARANTEED. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE EXACT LOCATION, SIZE, MATERIAL AND ELEVATION OF ALL EXISTING SERVICES AND UTILITIES PRIOR TO CONSTRUCTION.
3. THE CONTRACTOR SHALL REPORT ALL CONFLICTS, DISCOVERIES OF ERROR AND DISCREPANCIES TO THE ENGINEER.
4. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROTECT AND ASSUME RESPONSIBILITY FOR ALL UTILITIES WHETHER OR NOT SHOWN ON THESE DRAWINGS.
5. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROTECT ALL LANDS BEYOND THE SITE LIMITS. ANY AREAS BEYOND THE SITE LIMITS WHICH ARE DISTURBED DURING CONSTRUCTION, SHALL BE REPAIRED AND RESTORED TO ORIGINAL CONDITION OR BETTER, TO THE SATISFACTION OF THE ADJACENT LAND OWNER. THE OWNER, THE OWNER'S REPRESENTATIVES AND/OR THE AUTHORITY HAVING JURISDICTION AT THE EXPENSE OF THE CONTRACTOR.
6. WHERE NECESSARY, THE CONTRACTOR SHALL IMPLEMENT A TRAFFIC MANAGEMENT PLAN TO THE SATISFACTION OF THE CITY OF OTTAWA. ALL CONSTRUCTION SIGNAGE MUST CONFORM TO THE LATEST VERSION OF THE M.T.O. MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. ALL TEMPORARY TRAFFIC CONTROL MEASURES MUST BE REMOVED UPON THE COMPLETION OF THE WORKS.
7. SHOULD ANY BURIED ARCHAEOLOGICAL REMAINS BE FOUND ON THE PROPERTY DURING CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL NOTIFY THE OWNER TO CONTACT THE HERITAGE OPERATIONS UNIT OF THE ONTARIO MINISTRY OF CULTURE. NOTICE MUST BE NOTIFIED IMMEDIATELY AND WORK WITHIN THE AREA SHALL BE CEASED UNTIL FURTHER NOTICE.
8. FOR GEOTECHNICAL INFORMATION REFER TO GEOTECHNICAL REPORT 991-2238, REVISION No.3, PREPARED BY GOLDER ASSOCIATES LTD.
9. ACCESS LANE: FIRE ROUTES: HEAVY TRUCK DRIVING AREAS: (600mm)
 - 30mm - 1/3 SURFACE COURSE ASPHALTIC CONCRETE
 - 50mm - 1/3 SURFACE COURSE ASPHALTIC CONCRETE
 - 100mm - OPS GRANULAR "A" DRUSHED STONE
 - 400mm - OPS GRANULAR "B" TYPE II
10. CAN ONLY PARKING AREA: (100mm)
 - 50mm - SUPERPAVE 12.5 ASPHALTIC CONCRETE
 - 100mm - OPS GRANULAR "A" DRUSHED STONE
 - 300mm - OPS GRANULAR "B" TYPE II
11. FOR GEOTECHNICAL, BENCHMARK AND GEOMETRIC LAYOUT OF STREET AND LOTS, REFER TO TOPOGRAPHICAL SURVEY PREPARED BY ANNA OSULLIVAN, VOLLSEBOK LTD. BENCHMARK BASED ON CAN-NET VIRTUAL REFERENCE SYSTEM NETWORK.
12. FOR SITE PLAN INFORMATION, REFER TO SITE PLAN PREPARED BY ARCADIS ARCHITECTS INC (CANADA).
13. THESE DRAWINGS ARE NOT TO BE SCALED OR USED FOR LAYOUT PURPOSES.
14. ROADWAY SECTIONS REQUIRING GRADE RAISE TO PROPOSED SUB GRADE LEVEL TO BE FILLED WITH ACCEPTABLE NATIVE EARTH BORROW OR IMPORTED OPS SELECTED BASEGRADE MATERIAL & FINE MATERIAL AS PER RECOMMENDATION OF GEOTECHNICAL ENGINEER.
15. IN AREAS WHERE EXISTING GROUND IS BELOW THE PROPOSED ELEVATION OF SEWER AND WATERMANS, GRADE RAISING AND FILLING TO BE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT AS PER CITY GUIDELINES ALL WATERMANS IN FILL AREAS ARE TO BE TIED WITH RESTRAINING JOINTS AND THRUST BLOCKS.
16. THE CONTRACTOR SHALL IMPLEMENT THE EROSION AND SEDIMENT CONTROL PLAN PRIOR TO THE COMMENCEMENT OF ANY SITE CONSTRUCTION. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED TO THE SATISFACTION OF THE ENGINEER, OR ANY REGULATORY AGENCY. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED UNTIL VEGETATION IS ESTABLISHED OR UNTIL THE START OF A SUBSEQUENT PHASE.
17. CONTRACTORS SHALL BE RESPONSIBLE FOR KEEPING CLEAN ALL ROADS WHICH BECOME COVERED IN DIRT, DEBRIS AND/OR MUD AS A RESULT OF ITS CONSTRUCTION OPERATIONS.
18. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY ADDITIONAL BEDDING OR ADDITIONAL STRENGTH PIPE SHOULD THE MAXIMUM OPS/TRENCH WIDTH BE EXCEEDED.
19. ALL PIPE, CULVERTS, STRUCTURES REFER TO NOMINAL INSIDE DIMENSIONS.
20. SHOULD CLAY SEALS BE REQUIRED, THEY SHALL BE INSTALLED AS PER THE RECOMMENDATIONS WITHIN THE GEOTECHNICAL REPORT.
21. UNLESS SPECIFICALLY NOTED OTHERWISE, PIPE MATERIALS SHALL BE AS FOLLOWS:
 - WATERMANS TO BE PVC DRIE
 - SANITARY SEWER TO BE PVC DIPS
 - PERFORATED STORM SEWER IN REAR YARDS AND LANDSCAPE AREAS TO BE HDPE
 - STORM SEWERS 375mm DIAMETER AND LESS TO BE PVC DIPS
 - STORM SEWERS 450mm DIAMETER AND GREATER TO BE CONCRETE, CLASS AS PER OPS 807.010 OR 807.020, OR HDPE
 - FOR SHALLOW SEWERS, REFER TO CITY STANDARD SIS.
22. ALL CONNECTIONS TO EXISTING WATERMANS ARE TO BE COMPLETED BY CITY FORCES. CONTRACTOR IS TO EXCAVATE, BRICKLAP, COMPACT AND RESTATE.
23. ANY WATERMAIN WITH LESS THAN 2.4m AND ANY SEWER WITH LESS THAN 2.0m DEPTH OF COVER REQUIRES THERMAL INSULATION AS PER CITY OF OTTAWA STANDARD W22 OR AS APPROVED BY THE ENGINEER.
24. ALL FIRE HYDRANTS AS PER CITY STANDARD W15, w/ 150mm LEAD UNLESS OTHERWISE SPECIFIED.
25. ALL STUBBED SEWERS SHALL HAVE PRE-MANUFACTURED CAPS INSTALLED.
26. ALL CATCHBASINS SHALL HAVE A 600mm SUMP. ALL CATCHBASIN MANHOLES, AND ALL STORM MANHOLES WITH OUTLETTING PIPE SIZES LESS THAN 900mm, SHALL HAVE A 300mm SUMP.
27. ALL SANITARY MANHOLES IN PONDING AREAS SHALL BE EQUIPPED WITH A WATERTIGHT COVER.
28. ALL LEADS FOR STREET CATCHBASINS AND CURB INLET CATCHBASINS CONNECTED TO MAIN SHALL BE 200mm PVC DIPS @ MIN 2% SLOPE UNLESS NOTED OTHERWISE. ALL LEADS FOR R/C'S CONNECTED TO MAIN SHALL BE 200mm PVC DIPS @ MIN 1% SLOPE UNLESS NOTED OTHERWISE.
29. UNLESS SPECIFICALLY NOTED OTHERWISE, ALL STREET CATCHBASINS SHALL BE INSTALLED WITH TWO-3.0m MINIMUM SUBGRANS INSTALLED LONGITUDINALLY PARALLEL WITH THE CURB. ALL CATCHBASINS IN ASPHALT AREAS, NOT ADJACENT TO A CURB, SHALL BE INSTALLED WITH FOUR - 3.0m MINIMUM SUBGRANS INSTALLED ORTHOGONALLY.
30. INLET CONTROL DEVICES SHALL BE INSTALLED PRIOR TO COMPLETING THE ROAD BASE (GRANULAR A).
31. ALL SEWER SERVICE LATERALS WITH MAINLINE CONNECTIONS DEEPER THAN 5.0m REQUIRE A CONTROLLED SETTLEMENT JOINT.
32. EACH BUILDING SHALL BE EQUIPPED WITH A SANITARY AND STORM SEWER BACKFLOW VALVE AND CLEAN-OUT ON ITS PRIMARY SERVICE, AS PER ONTARIO BUILDING CODE REQUIREMENTS (BY OTHERS).
33. THE SUBGRADE OF ALL STRUCTURES, PIPE, ROADS, SIDEWALKS, WALKWAYS, AND BUILDINGS SHALL BE INSPECTED BY THE GEOTECHNICAL ENGINEER PRIOR TO PROCEEDING WITH CONSTRUCTION.
34. TOP COURSE ASPHALT SHALL NOT BE PLACED UNTIL THE FINAL C/TV INSPECTION AND NECESSARY REPAIRS HAVE BEEN COMPLETED TO THE SATISFACTION OF THE ENGINEER AND THE CITY OF OTTAWA.
35. ALL RETAINING WALLS GREATER THAN 1.0m IN HEIGHT SHALL BE DESIGNED BY A QUALIFIED STRUCTURAL ENGINEER.
36. ALL RETAINING WALLS GREATER THAN 0.6m IN HEIGHT REQUIRE A GUARD. ANY GUARD ON A RETAINING WALL GREATER THAN 1.0m IN HEIGHT SHALL BE DESIGNED BY THE QUALIFIED STRUCTURAL ENGINEER RESPONSIBLE FOR THE WALL DESIGN.
37. UPON COMPLETION OF THE RETAINING WALL, THE CONTRACTOR SHALL REQUEST A COMPLIANCE CERTIFICATE FROM THE QUALIFIED ENGINEER RESPONSIBLE FOR THE WALL DESIGN.



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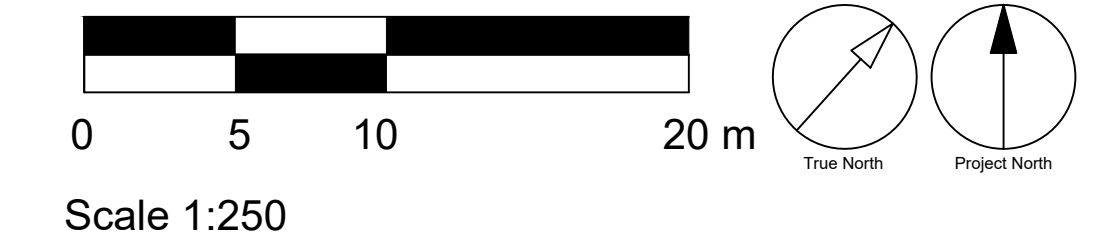
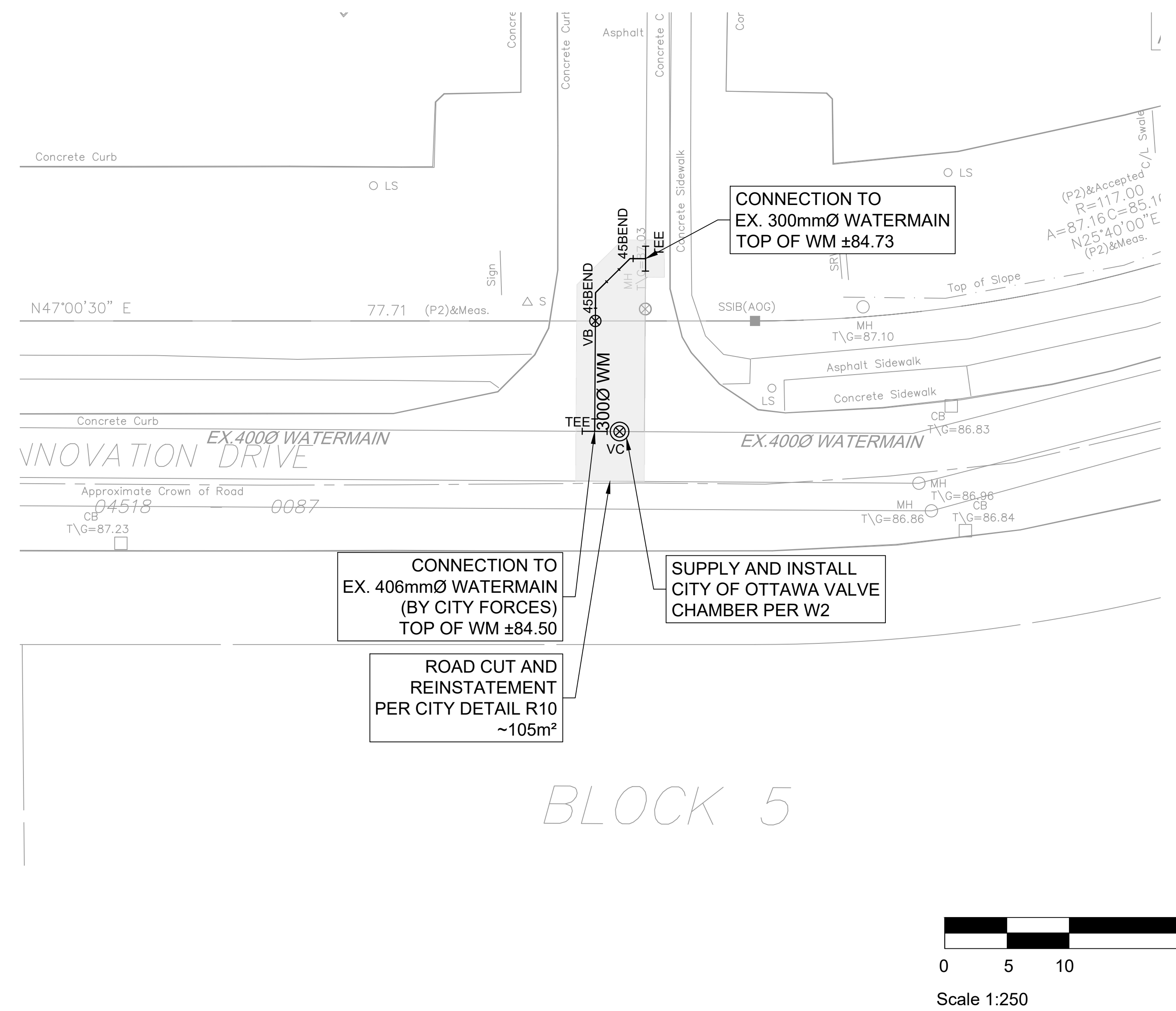
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Cisco Ottawa Campus
OTT01

PROJECT NO:
OTT01 MAB 30298433

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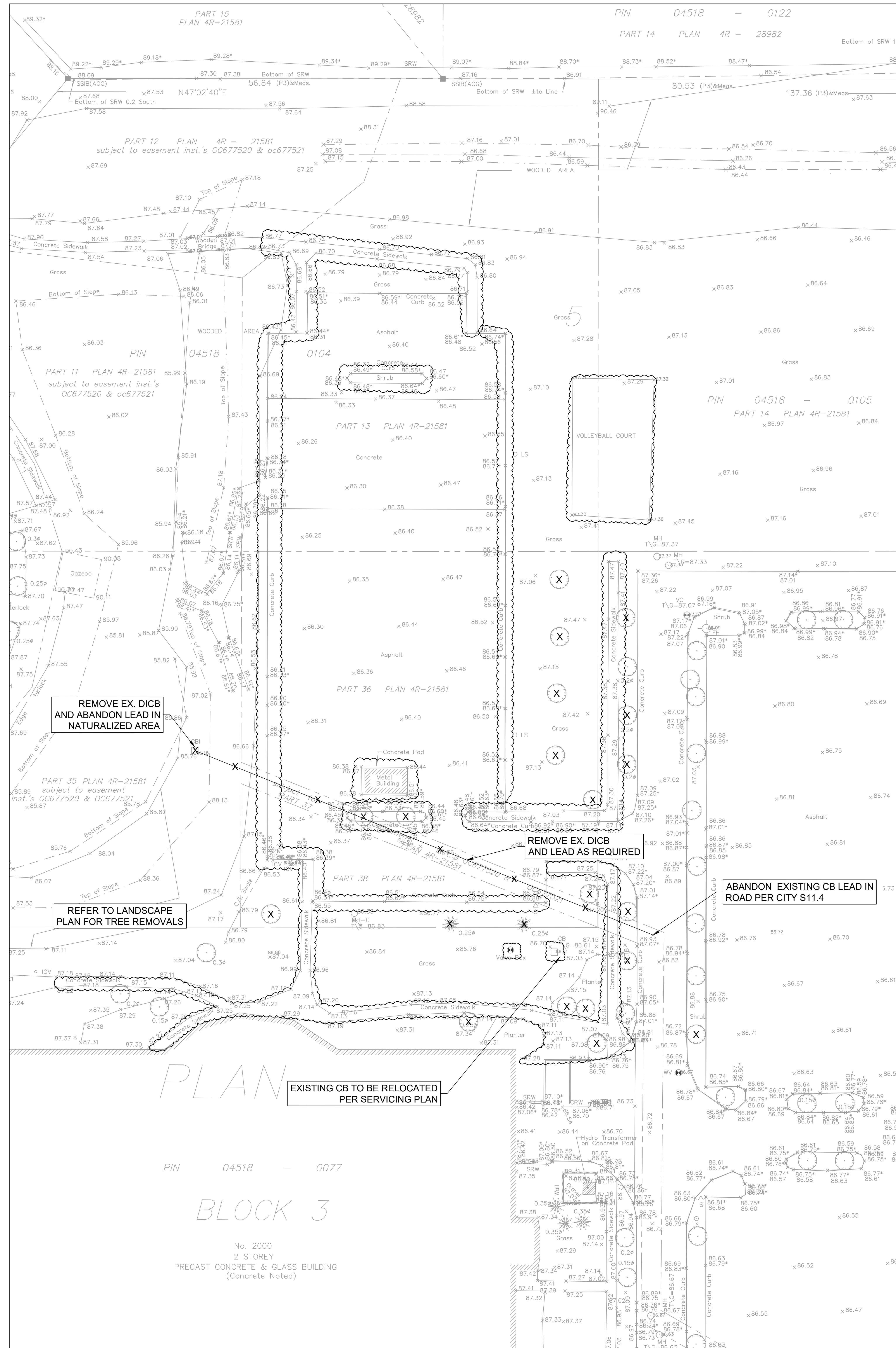
SHEET TITLE
SERVICING PLAN

SHEET NUMBER C-001 **ISSUE** 2



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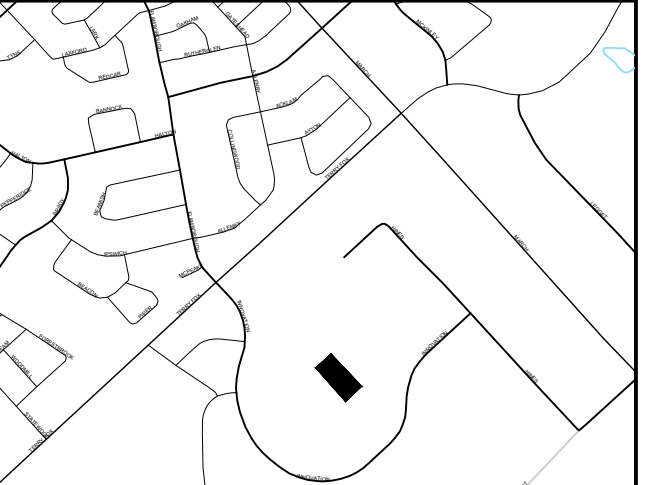


- REMOVAL
- ⊗ ADJUST MANHOLE, VALVES
- ⊠ ADJUST CATCH BASIN
- ⊗ ADJUSTMENT BY BELL OR HYDRO APPROVED CONTRACTOR
- ⊗ REMOVE OR ABANDON SEWER, WATERMAIN, UTILITY, CURB RETURNS
- ⊔ PLUG
- ▨ DRY GRIND EXISTING ASPHALT, AVERAGE DEPTH 50mm.
- ▨ FULL DEPTH ASPHALT REMOVAL
- ▨ AREA TO BE CLEARED AND GRUBBED
- ▨ REMOVAL OF BUILDINGS, FOUNDATIONS, SEPTIC SYSTEM AND WELL
- ▨ REMOVALS OF CONCRETE/ ASPHALT SIDEWALK



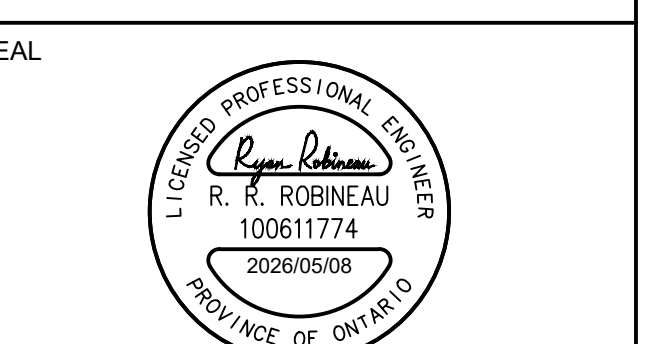
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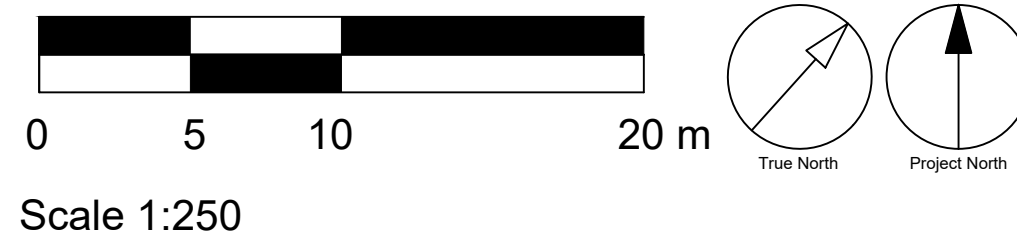
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SHEET TITLE
 EXISTING CONDITIONS & REMOVALS PLAN

SHEET NUMBER
 C-005

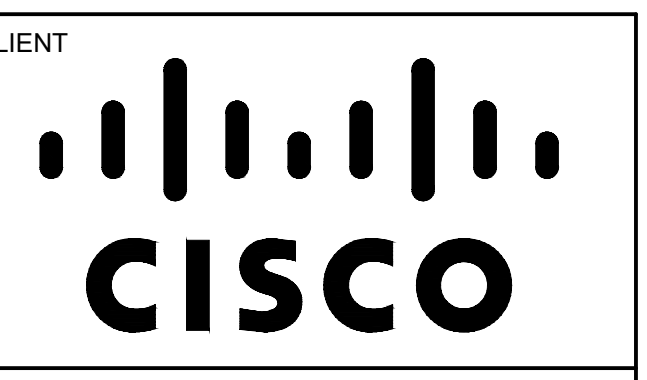
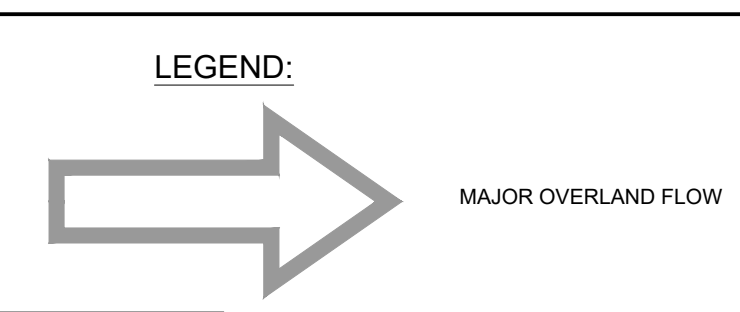
ISSUE
 2



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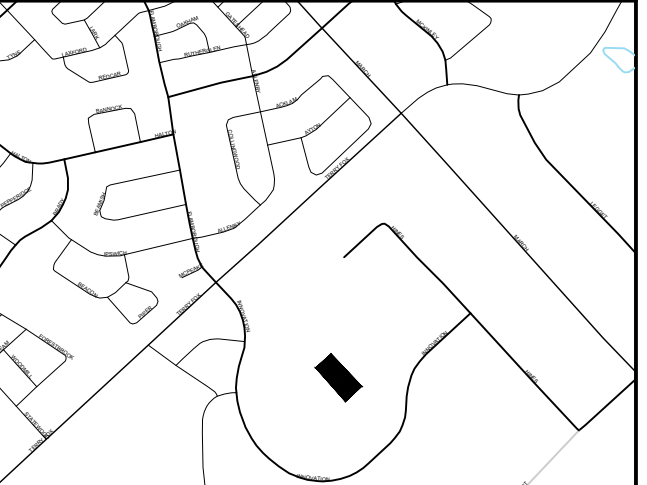
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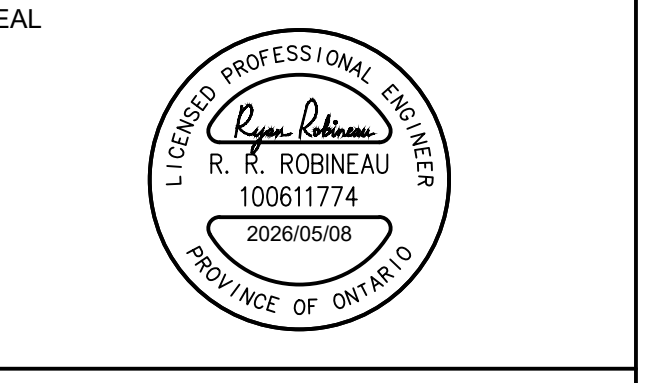
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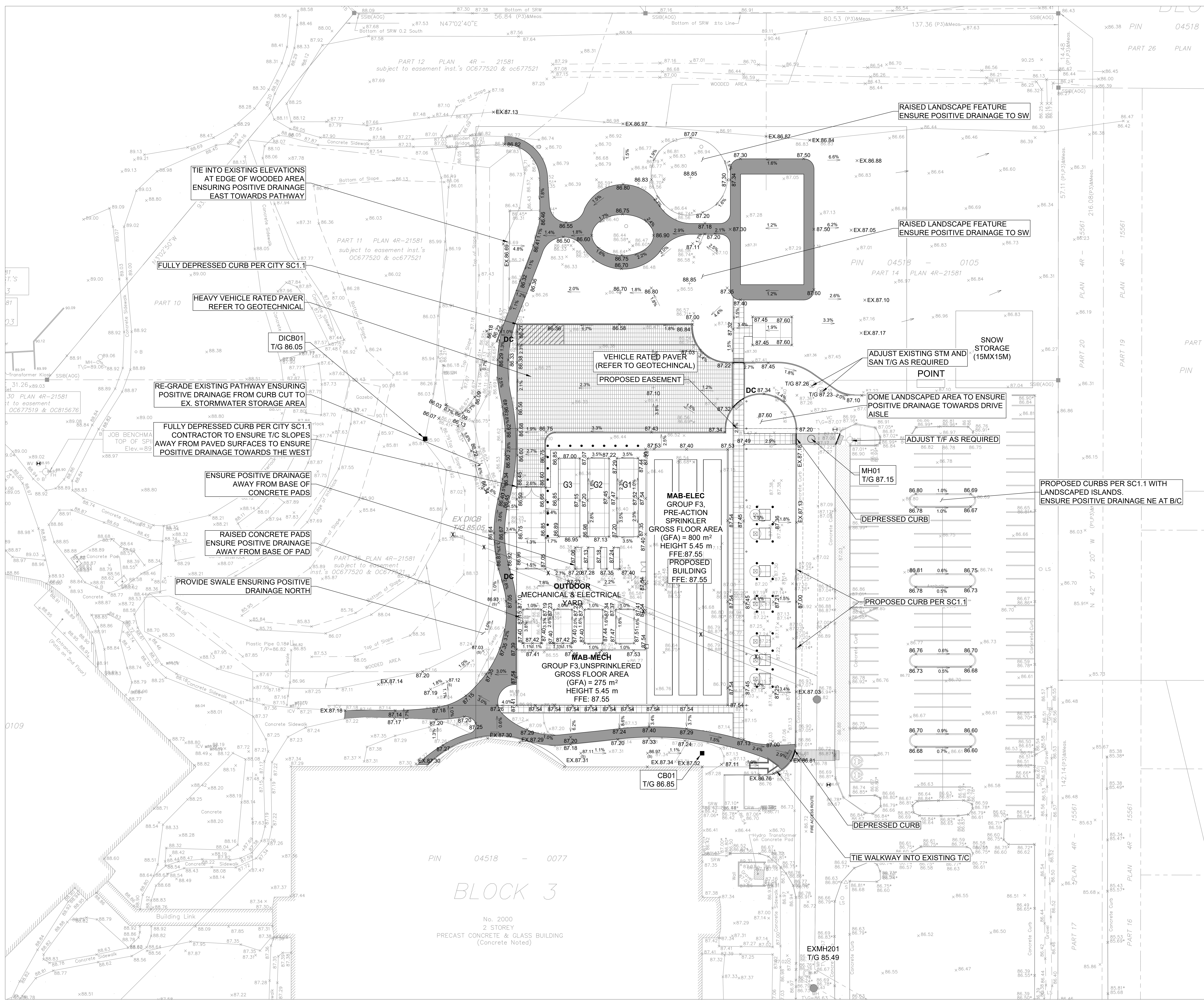
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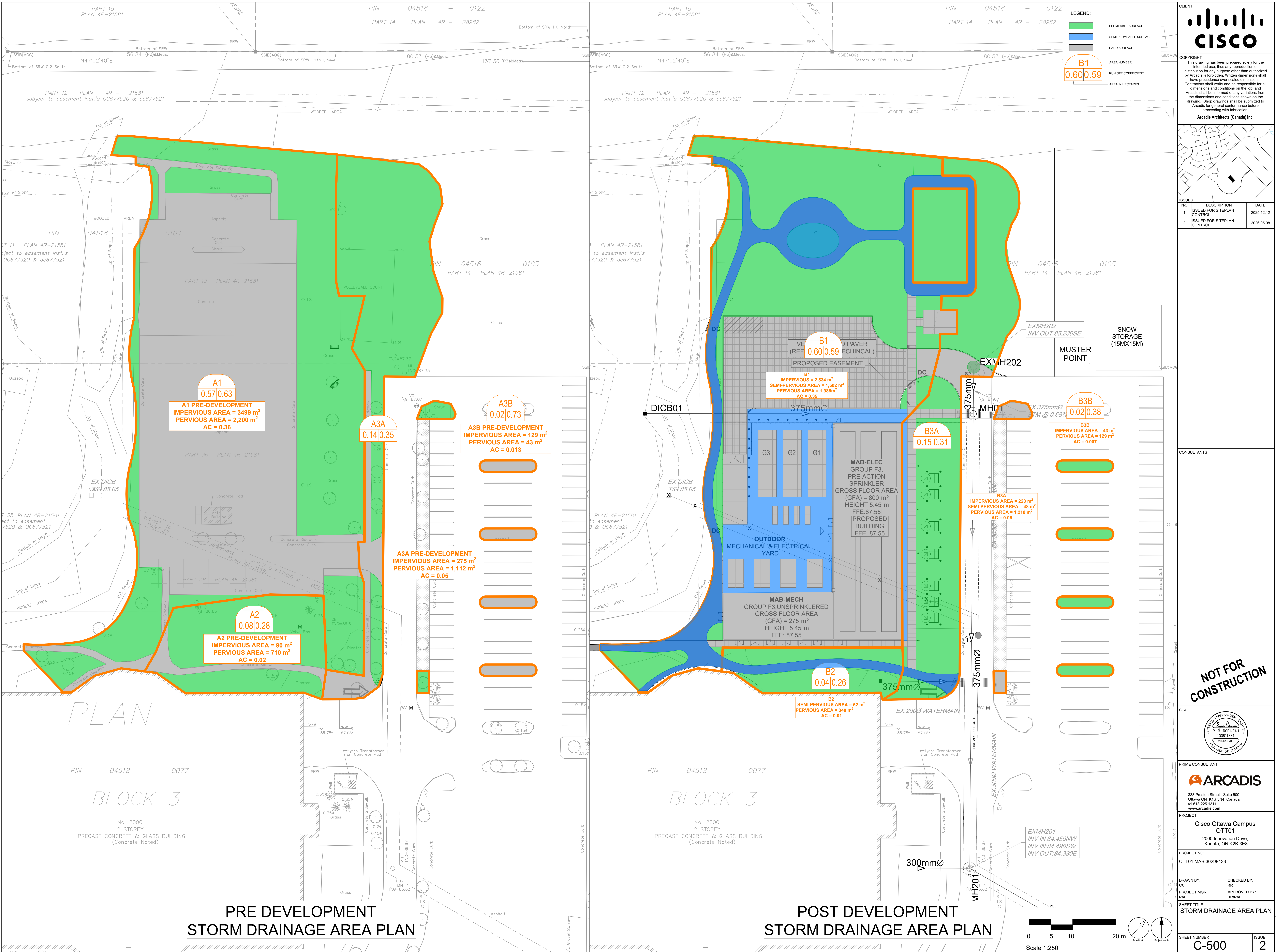
PROJECT NO:
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SHEET TITLE
GRADING PLAN

SHEET NUMBER
C-200
ISSUE
2





LEGEND:

- PERMEABLE SURFACE
- SEMI PERMEABLE SURFACE
- HARD SURFACE

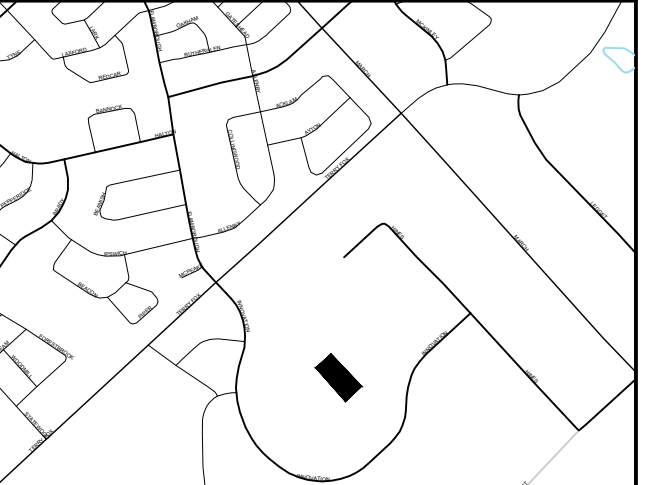
B1
0.60/0.59

AREA NUMBER
RUN OFF COEFFICIENT
AREA IN HECTARES



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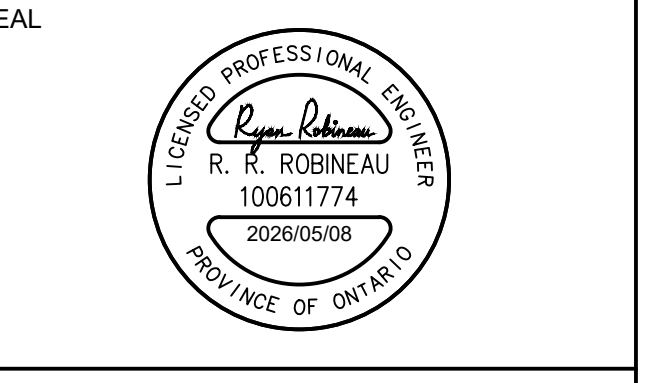
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SHEET TITLE
STORM DRAINAGE AREA PLAN

SHEET NUMBER
C-500

ISSUE
2



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SHEET TITLE
STORM DRAINAGE AREA PLAN

SHEET NUMBER
C-500

ISSUE
2

Scale
0 5 10 20 m
Scale 1:250

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