

**LEGEND**

|  |   |  |   |
|--|---|--|---|
|  | PROPOSED ELEVATION                      |  | EXISTING CONCRETE CURB                  |
|  | EXISTING ELEVATION                      |  | EXISTING VALVE & VALVE BOX              |
|  | GRADE AND DIRECTION                     |  | EXISTING SERVICE POST                   |
|  | MAXIMUM 3:1 SIDESLOPE                   |  | EXISTING HYDRANT                        |
|  | PROPOSED MECHANICAL AREA DRAIN          |  | EXISTING COMBINED MH                    |
|  | PROPOSED PLANTER DECK DRAIN             |  | EXISTING CATCHBASIN                     |
|  | DIRECTION OF MAJOR SYSTEM OVERLAND FLOW |  | EXISTING CATCHBASIN/MH                  |
|  | PROPERTY LINE                           |  | EXISTING UTILITY POLE                   |
|  | UNDERGROUND STRUCTURE                   |  | CW GUY WIRES                            |
|  | BUILDING ABOVE                          |  | EXISTING FENCE                          |
|  | BUILDING ENTRANCE / EXIT                |  | EXISTING OVERHEAD WIRES                 |
|  | RAISED PLANTER BED                      |  | FFE FINISHED FLOOR ELEVATION            |
|  | RIP RAP AS PER OPSD 801.010             |  | P1 LEVEL PARKING GARAGE LEVEL ELEVATION |
|  |   |  | USF UNDERSIDE OF FOOTING ELEVATION      |

- EROSION AND SEDIMENT CONTROL NOTES :**
- ALL EROSION AND SEDIMENT CONTROLS ARE TO BE INSTALLED TO THE SATISFACTION OF THE ENGINEER AND THE CITY OF OTTAWA. THEY ARE TO BE APPROPRIATE TO THE SITE CONDITIONS, PRIOR TO UNDERTAKING ANY SITE ALTERATIONS (FILLING, GRADING, REMOVAL OF VEGETATION, ETC.) AND DURING ALL PHASES OF SITE PREPARATION AND CONSTRUCTION. THESE PRACTICES ARE TO BE IMPLEMENTED IN ACCORDANCE WITH THE CURRENT BEST MANAGEMENT PRACTICES FOR EROSION AND SEDIMENT CONTROL AND SHOULD INCLUDE AS A MINIMUM THOSE MEASURES INDICATED ON THE PLAN.
  - A LIGHT DUTY SILT FENCE BARRIER WILL ALSO BE INSTALLED AROUND THE CONSTRUCTION AREA (WHERE APPLICABLE). THESE CONTROL MEASURES WILL REMAIN IN PLACE UNTIL CONSTRUCTION IS COMPLETE.
  - TO PREVENT SURFACE EROSION FROM ENTERING ANY STORM SEWER SYSTEM DURING CONSTRUCTION, FILTER BAGS WILL BE PLACED UNDER GRATES OF NEARBY SURFACE CATCHBASINS AND MANHOLE STRUCTURES. TERRAFIX "ULTRA" SILT SOCK (FILTER SOCK) IS TO BE USED AT THE OPENING OF ALL CURB INLET CATCHBASINS. A LIGHT DUTY SILT FENCE BARRIER WILL ALSO BE INSTALLED (PER OPSD 219.110) AROUND THE CONSTRUCTION AREA (WHERE APPLICABLE). IN AREAS WHERE SILT FENCINGS CANNOT BE INSTALLED PER OPSD 219.110 (i.e. HARD SURFACES), A FILTER SOCK SHALL BE SUBSTITUTED. THESE CONTROL MEASURES WILL REMAIN IN PLACE UNTIL CONSTRUCTION IS COMPLETE.
  - THE SEDIMENT CONTROL MEASURES SHALL ONLY BE REMOVED WHEN, IN THE OPINION OF THE ENGINEER, THE MEASURES ARE NO LONGER REQUIRED. NO CONTROL MEASURES MAY BE PERMANENTLY REMOVED WITHOUT PRIOR AUTHORIZATION FROM THE ENGINEER.
  - THE CONTRACTOR SHALL IMMEDIATELY REPORT TO THE ENGINEER ANY ACCIDENTAL DISCHARGES OF SEDIMENT MATERIAL INTO ANY STORM SEWER SYSTEM. APPROPRIATE RESPONSE MEASURES, INCLUDING ANY REPAIRS TO EXISTING CONTROL MEASURES OR THE IMPLEMENTATION OF ADDITIONAL CONTROL MEASURES, SHALL BE CARRIED OUT BY THE CONTRACTOR WITHOUT DELAY.
  - THE CONTRACTOR ACKNOWLEDGES THAT FAILURE TO IMPLEMENT EROSION AND SEDIMENT CONTROL MEASURES MAY BE SUBJECT TO PENALTIES IMPOSED BY ANY APPLICABLE REGULATORY AGENCY.
  - ROADWAYS ARE TO BE SWEEP AS REQUIRED OR AS DIRECTED BY THE ENGINEER AND/OR MUNICIPALITY.
  - THE CONTRACTOR SHALL ENSURE PROPER DUST CONTROL IS PROVIDED WITH THE APPLICATION OF WATER (AND IF REQUIRED, CALCIUM CHLORIDE) DURING DRY PERIODS.

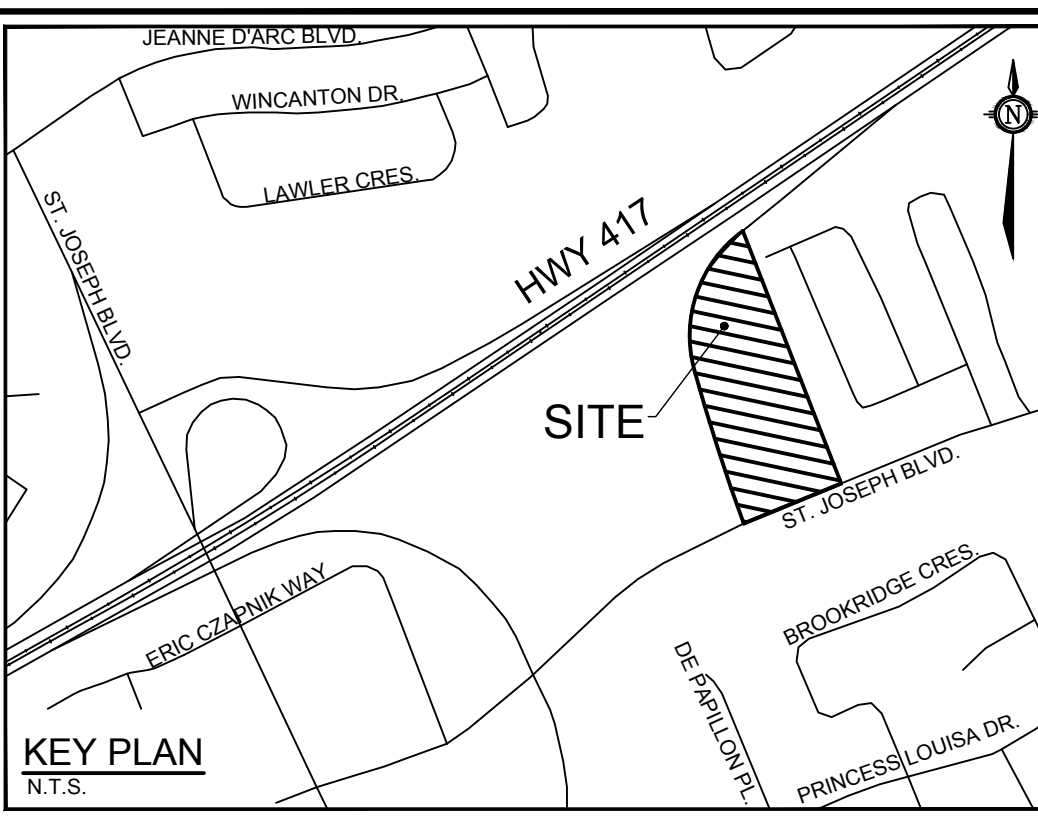
- BENCHMARK NOTES:**
- ELEVATIONS SHOWN ARE GEODETIC AND ARE REFERRED TO THE CGVD28 GEODETIC DATUM.
  - IT IS THE RESPONSIBILITY OF THE USER OF THIS INFORMATION TO VERIFY THAT THE JOB BENCHMARK HAS NOT BEEN ALTERED OR DISTURBED AND THAT ITS RELATIVE ELEVATION AND DESCRIPTION AGREES WITH THE INFORMATION SHOWN ON THIS DRAWING.
  - BENCHMARK WAS PROVIDED ONPLAN OF SURVEY PART OF LOT 33, CONCESSION 1 (OLD SURVEY) GEOGRAPHIC TOWNSHIP OF CUMBERLAND, CITY OF OTTAWA, SURVEYED BY STANTEC GEOMATICS LTD.

**PAVEMENT STRUCTURE:**

|  |  |
|--|--|
|  | LIGHT DUTY PAVEMENT (CAR ONLY PARKING AREAS)<br>50mm HL3 or SUPERPAVE 12.5<br>150mm GRANULAR "A" CRUSHED STONE<br>300mm GRANULAR "B" TYPE II   |
|  | HEAVY DUTY PAVEMENT (ACCESS LANES AND HEAVY TRUCK PARKING AREAS)<br>40mm HL3 or SUPERPAVE 12.5<br>50mm HL3 or SUPERPAVE 19.0<br>150mm GRANULAR "A" CRUSHED STONE<br>450mm GRANULAR "B" TYPE II |

**Erosion and Sediment Control Responsibilities:**

| ESC Measure  | Symbol                             | Specification                      | Installation Responsibility | During Construction                   |                       | After Construction Prior to Final Acceptance |                        | After Final Acceptance                |  |
|--|------------------------------------|------------------------------------|-----------------------------|---------------------------------------|-----------------------|--|------------------------|---------------------------------------|--|
|  |                                    |                                    |                             | Inspection/Maintenance Responsibility | Inspection Frequency  | Approval to Remove                           | Removal Responsibility | Inspection/Maintenance Responsibility |  |
| Silt Fence   | ---                                | OPSD 219.110                       | Developer's Contractor      | Developer's Contractor                | Weekly (as a minimum) | Consultant                                   | Developer's Contractor | N/A                                   |  |
| Filter Fabric  | Location as Indicated On Plans     | Erosion and Sediment Control Notes | Developer's Contractor      | Developer's Contractor                | Weekly (as a minimum) | Consultant                                   | Developer's Contractor | N/A                                   |  |
| Mud Mat  | [M]                                | Drawing Details                    | Developer's Contractor      | Developer's Contractor                | Weekly (as a minimum) | Developer's Contractor                       | Developer's Contractor | N/A                                   |  |
| Dust Control   | Location as Required Around Site   | Erosion and Sediment Control Notes | Developer's Contractor      | Developer's Contractor                | Weekly (as a minimum) | Consultant                                   | Developer's Contractor | N/A                                   |  |
| Stabilized Material Stockpiling                            | Location as Required by Contractor | Erosion and Sediment Control Notes | Developer's Contractor      | Developer's Contractor                | Weekly (as a minimum) | Developer's Contractor                       | Developer's Contractor | N/A                                   |  |
| Sediment Basin (for flows being pumped out of excavations) | Location as Required by Contractor | ...                                | Developer's Contractor      | Developer's Contractor                | After Every Rainstorm | Developer's Contractor                       | Developer's Contractor | N/A                                   |  |



- GENERAL NOTES:**
- COORDINATE AND SCHEDULE ALL WORK WITH OTHER TRADES AND CONTRACTORS.
  - DETERMINE THE EXACT LOCATION, SIZE, MATERIAL AND ELEVATION OF ALL EXISTING UTILITIES PRIOR TO COMMENCING CONSTRUCTION. PROTECT AND ASSUME RESPONSIBILITY FOR ALL EXISTING UTILITIES WHETHER OR NOT SHOWN ON THIS DRAWING.
  - OBTAIN ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY OF OTTAWA BEFORE COMMENCING CONSTRUCTION.
  - BEFORE COMMENCING CONSTRUCTION OBTAIN AND PROVIDE PROOF OF COMPREHENSIVE, ALL RISK AND OPERATIONAL LIABILITY INSURANCE FOR \$5,000,000.00. INSURANCE POLICY TO NAME OWNERS, ENGINEERS AND ARCHITECTS AS CO-INSURED.
  - RESTORE ALL DISTURBED AREAS ON-SITE AND OFF-SITE, INCLUDING TRENCHES AND SURFACES ON PUBLIC ROAD ALLOWANCES TO EXISTING CONDITIONS OR BETTER TO THE SATISFACTION OF MUNICIPAL AUTHORITIES.
  - REMOVE FROM SITE ALL EXCESS EXCAVATED MATERIAL, ORGANIC MATERIAL AND DEBRIS UNLESS OTHERWISE INSTRUCTED BY ENGINEER. EXCAVATE AND REMOVE FROM SITE ANY CONTAMINATED MATERIAL. ALL CONTAMINATED MATERIAL SHALL BE DISPOSED OF AT A LICENSED LANDFILL FACILITY.
  - ALL ELEVATIONS ARE GEODETIC.
  - REFER TO GEOTECHNICAL INVESTIGATION REPORT (Ref No. PG5091-1, REVISION 1, DATED NOVEMBER 6, 2019, AND TREE PLANTING SETBACK RECOMMENDATIONS (Ref No. PG5801-MEMO-01), PREPARED BY PATERSON GROUP INC. FOR SUBSURFACE CONDITIONS, CONSTRUCTION RECOMMENDATIONS AND GEOTECHNICAL INSPECTION REQUIREMENTS. THE GEOTECHNICAL CONSULTANT IS TO REVIEW ON-SITE CONDITIONS AFTER EXCAVATION PRIOR TO PLACEMENT OF THE GRANULAR MATERIAL.
  - REFER TO ARCHITECTS AND LANDSCAPE ARCHITECTS DRAWINGS FOR BUILDING AND HARD SURFACED AREAS AND DIMENSIONS.
  - REFER TO THE 'DEVELOPMENT SERVICING STUDY AND STORMWATER MANAGEMENT REPORT' (R-2023-086) PREPARED BY NOVATECH.
  - SAW CUT AND KEYGRIND ASPHALT AT ALL ROAD CUTS AND ASPHALT TIE-IN POINTS AS PER CITY OF OTTAWA STANDARDS (R10) PROVIDE LINE PARKING PAINTING.
  - CONTRACTOR TO PROVIDE THE CONSULTANT WITH A GENERAL PLAN OF SERVICES INDICATING ALL SERVICING AS-BUILT INFORMATION SHOWN ON THIS PLAN. AS-BUILT INFORMATION MUST INCLUDE: PIPE MATERIAL, SIZES, LENGTHS, SLOPES, INVERT AND TAG ELEVATIONS, STRUCTURE LOCATIONS, VALVE AND HYDRANT LOCATIONS, TWM ELEVATIONS AND ANY ALIGNMENT CHANGES, ETC.

- GRADING NOTES:**
- ALL TOPSOIL, ORGANIC OR DELETERIOUS MATERIAL MUST BE ENTIRELY REMOVED FROM BENEATH THE PROPOSED PAVED AREAS AS DIRECTED BY THE SITE ENGINEER OR GEOTECHNICAL ENGINEER.
  - EXPOSED SUBGRADES IN PROPOSED PAVED AREAS SHOULD BE PROOF ROLLED WITH A LARGE STEEL DRUM ROLLER AND INSPECTED BY THE GEOTECHNICAL ENGINEER PRIOR TO THE PLACEMENT OF GRANULARS.
  - ANY SOFT AREAS EVIDENT FROM THE PROOF ROLLING SHOULD BE SUB-EXCAVATED AND REPLACED WITH SUITABLE MATERIAL THAT IS FROST COMPATIBLE WITH THE EXISTING SOILS AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER.
  - THE GRANULAR BASE SHOULD BE COMPACTED TO AT LEAST 99% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY VALUE. ANY ADDITIONAL GRANULAR FILL USED BELOW THE PROPOSED PAVEMENT SHOULD BE COMPACTED TO AT LEAST 95% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY VALUE.
  - MINIMUM OF 2% GRADE FOR ALL GRASS AREAS UNLESS OTHERWISE NOTED.
  - MAXIMUM TERRACING GRADE TO BE 3:1 UNLESS OTHERWISE NOTED.
  - ALL GRADES BY CURBS ARE EDGE OF PAVEMENT GRADES UNLESS OTHERWISE INDICATED.
  - ALL CURBS SHALL BE BARRIER CURB (150mm) UNLESS OTHERWISE NOTED AND CONSTRUCTED AS PER CITY OF OTTAWA STANDARDS (SC1.1).
  - REFER TO LANDSCAPE PLAN FOR PLANTING AND OTHER LANDSCAPE FEATURE DETAILS.
  - CONTRACTOR TO PROVIDE THE CONSULTANT WITH A GRADING PLAN INDICATING THE AS-BUILT ELEVATIONS OF ALL DESIGN GRADES SHOWN ON THIS PLAN.

NOTE:  
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**OWNER INFORMATION**  
8417709 CANADA INC.  
430 boulevard de l'hôpital, Suite 310  
Gatineau, QC J8V 1T7  
NAME: PAUL-ANDRÉ CHARBONNEAU  
PHONE: (819) 955-8032  
EMAIL: paul-andre@chartro.ca

| No. | REVISION                   | DATE      | BY  |
|-----|----------------------------|-----------|-----|
| 1.  | ISSUED FOR SPC APPLICATION | JUL 19/24 | FST |

**SCALE**

1:300

**FOR REVIEW ONLY**

|          |     |
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| DESIGN   | CV  |
| CHECKED  | FST |
| DRAWN    | CV  |
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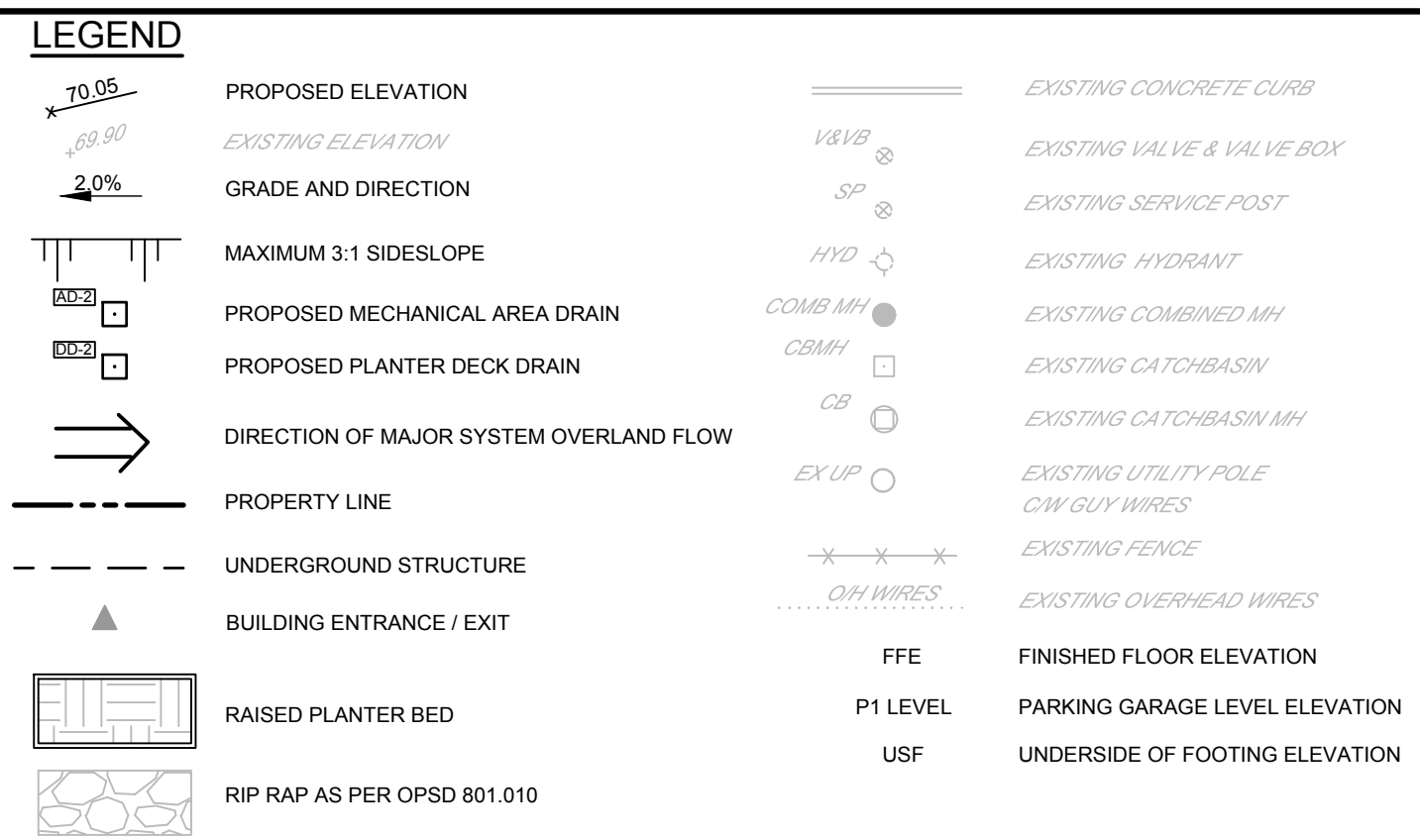
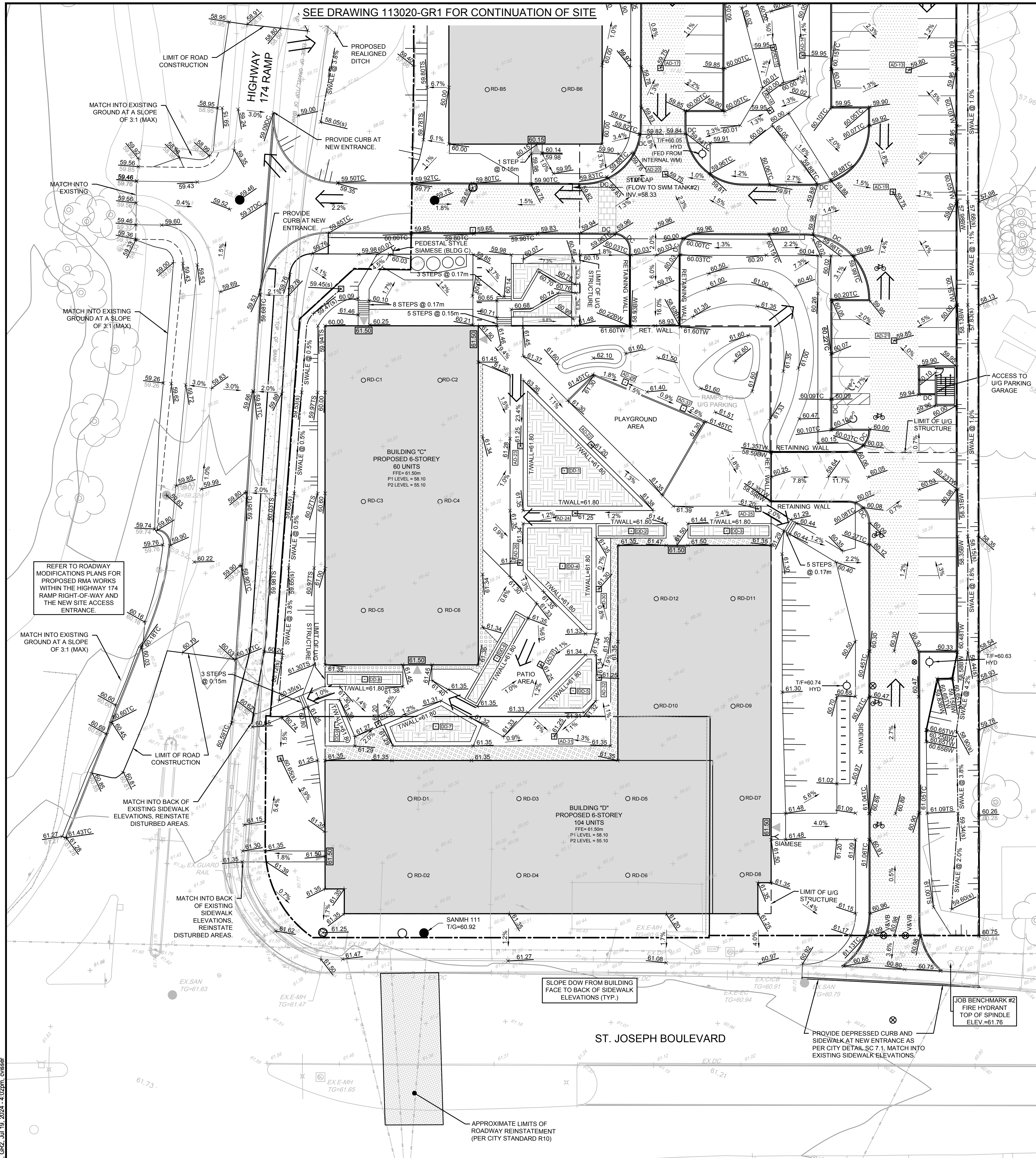
**N VATECH**  
Engineers, Planners & Landscape Architects  
Suite 200, 240 Michael Cowpland Drive  
Ottawa, Ontario, Canada K2M 1P6  
Telephone (613) 254-9643  
Facsimile (613) 254-5867  
Website www.novatech-eng.com

LOCATION  
CITY OF OTTAWA  
3459 & 3479 ST. JOSEPH BOULEVARD

DRAWING NAME  
**GRADING AND EROSION & SEDIMENT CONTROL PLAN**

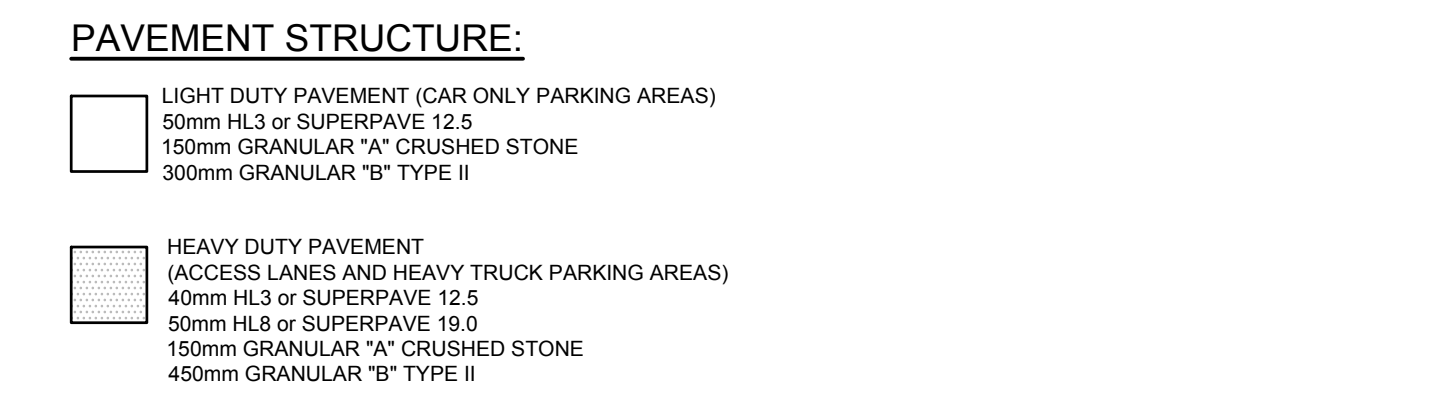
PROJECT No. 113020-00  
REV #1  
DRAWING No. 113020-GR1

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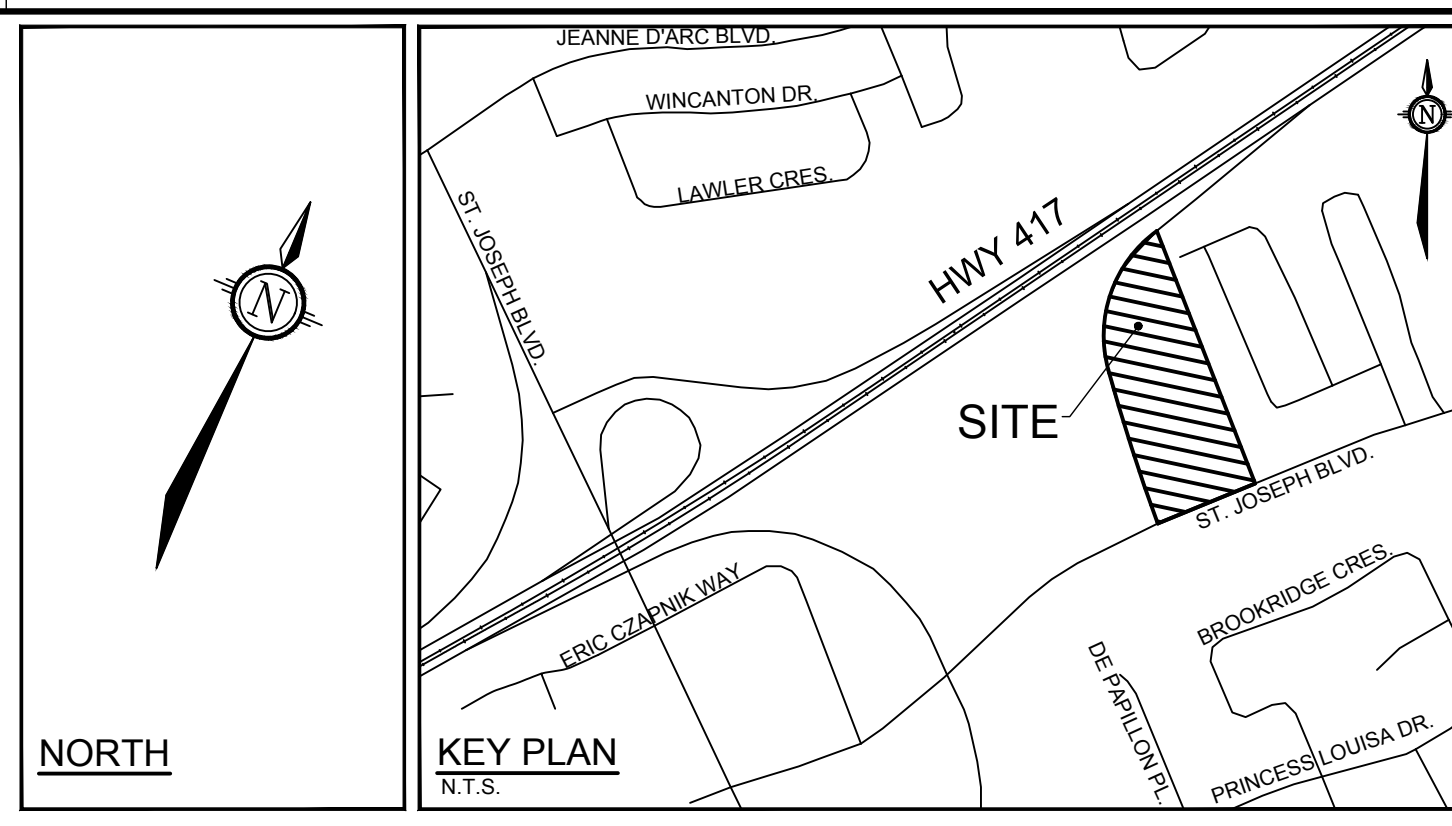
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LOCATION  
CITY OF OTTAWA  
3459 & 3479 ST. JOSEPH BOULEVARD

DRAWING NAME  
**GRADING AND EROSION & SEDIMENT CONTROL PLAN**

PROJECT No. 113020-00  
REV #1  
DRAWING No. 113020-GR2

**N VATECH**  
Engineers, Planners & Landscape Architects  
Suite 200, 240 Michael Cowpland Drive  
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