

GENERAL NOTES:

1. ALL WORKS AND MATERIALS SHALL CONFORM TO THE LATEST REVISIONS OF THE STANDARDS AND SPECIFICATIONS OF THE CITY OF OTTAWA, ONTARIO PROVINCIAL STANDARD DRAWINGS (PSD) AND SPECIFICATIONS (SPS), WHERE APPLICABLE.
2. THE LOCATION OF UTILITIES IS APPROXIMATE ONLY, AND THE EXACT LOCATION SHOULD BE DETERMINED BY CONSULTING THE MUNICIPAL AUTHORITIES AND UTILITY COMPANIES CONCERNED. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE THE LOCATION AND STATUS OF UTILITIES AND SHALL BE RESPONSIBLE FOR ADEQUATE PROTECTION OF ALL PLANT AND EQUIPMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OR REPLACEMENT OF ANY SERVICES OR UTILITIES DISTURBED DURING CONSTRUCTION TO THE SATISFACTION OF THE AUTHORITY HAVING JURISDICTION.
3. THE CONTRACTOR SHALL VERIFY THE LOCATION AND ELEVATION OF EXISTING SERVICES PRIOR TO ANY CONSTRUCTION. THE CONTRACTOR SHALL CONFIRM LOCATIONS AND ELEVATIONS OF EXISTING SERVICES AND STRUCTURES TO BE CONNECTED TO EXISTING SERVICES THAT MAY BE IN CONFLICT. PRIOR TO CONSTRUCTION OF ANY NEW SEWER, WATER AND/OR STORM WATER WORKS, ALL DIMENSIONS SHALL BE CHECKED AND RECORDED IN THE FIELD. ANY CHANGES TO THE START OF CONSTRUCTION, ANY DISCREPANCIES, INTERFERENCES, CHANGES AND ADDITIONS TO THESE DRAWINGS MUST BE BROUGHT TO THE ATTENTION OF THE ENGINEER, WHEN NOTED, AND BEFORE PROCEEDING WITH CONSTRUCTION WORKS. DO NOT CONTINUE CONSTRUCTION IN AREAS WHERE DISCREPANCIES APPEAR UNLESS SUCH DISCREPANCIES HAVE BEEN RESOLVED.
4. ALL ELEVATIONS ARE GEODETIC AND UTILIZE METRIC UNITS. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE SPECIFIED. ALL DRAWINGS SHOULD NOT BE SCALED BY THE CONTRACTOR. ANY MISSING OR QUESTIONABLE DIMENSIONS ARE TO BE CONFIRMED WITH THE ENGINEER IN WRITING.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL CONSTRUCTION RELATED PERMITS REQUIRED AND BEAR COST OF THE SAME.
6. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE "OCCUPATIONAL HEALTH AND SAFETY ACT AND REGULATIONS FOR CONSTRUCTION PROJECTS"; THE GENERAL CONTRACTOR SHALL BE DEEMED TO BE THE CONTRACTOR AS DEFINED IN THE ACT.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXCAVATION, BACKFILL AND REINSTATEMENT OF ALL AREAS DISTURBED DURING CONSTRUCTION TO THE SATISFACTION OF THE ENGINEER, THE CITY OF OTTAWA AND THE AUTHORITY HAVING JURISDICTION.
8. ANY AREAS BEYOND THE LIMIT OF THE SITE DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO ORIGINAL CONDITION OR BETTER TO THE SATISFACTION OF THE AUTHORITY HAVING JURISDICTION AT THE CONTRACTOR'S EXPENSE.
9. THE CONTRACTOR SHALL COMPLY WITH THE CITY OF OTTAWA REQUIREMENTS FOR TRAFFIC CONTROL, WHEN WORKING ON CITY STREETS. ALL CONSTRUCTION SIGNAGE MUST CONFORM TO THE M.T.O. BOOK 7 AND T.C. MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (LATEST AMENDMENT).
10. THE SUPPORT OF ALL UTILITIES WITHIN THE CONSTRUCTION AREA SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION.
11. THERE WILL BE NO SUBSTITUTION OF MATERIALS UNLESS WRITTEN APPROVAL BY THE ENGINEER HAS BEEN OBTAINED.
12. EXCESS EXCAVATED MATERIAL SHALL BE REMOVED FROM THE SITE.
13. THE SITE LAYOUT IS THE RESPONSIBILITY OF THE CONTRACTOR. AS-BUILT SITE SERVICES & GRADING DRAWINGS SHALL BE MAINTAINED ON SITE BY THE CONTRACTOR.
14. THE CONTRACTOR WILL BE RESPONSIBLE FOR ADDITIONAL BEDDING OR ADDITIONAL STRENGTH PIPE IF THE MAXIMUM TRENCH WIDTH, AS SPECIFIED BY OPSD IS EXCEEDED.
15. ALL NECESSARY CLEARING AND GRUBBING SHALL BE COMPLETED BY THE CONTRACTOR, REVIEW WITH ENGINEER AND THE CITY OF OTTAWA PRIOR TO ANY TREE CUTTING.
16. ALL EDGES OF DISTURBED PAVEMENT SHALL BE SAU CUT TO FORM A NEAT AND STRAIGHT LINE PRIOR TO PLACING NEW PAVEMENT.
17. FOR GEOTECHNICAL INFORMATION REFER TO **GEOTECHNICAL INVESTIGATION REPORT PREPARED BY EXP SERVICES INC. DATED OCTOBER 06, 2025 (SMA07)**.
18. THE CONTRACTOR SHALL APPRAISE HERSHELF OF ALL SURFACE AND SUBSURFACE CONDITIONS TO BE ENCOUNTERED AND SHALL CARRY OUT THEIR OWN TEST PRIOR TO CONSTRUCTION TO MAKE THEIR OWN INDEPENDENT ASSESSMENT OF GROUND CONDITIONS. THE CONTRACTOR SHALL NOT MAKE ANY CLAIM FOR AN EXTRA COST DUE TO ANY SUCH GROUND CONDITIONS VARYING FROM THOSE ANTICIPATED BY THE CONTRACTOR.
19. DO NOT CONSTRUCT USING DRAWINGS THAT ARE NOT MARKED "ISSUED FOR CONSTRUCTION".
20. FOR TOPOGRAPHICAL INFORMATION REFER TO PLAN PREPARED BY **ANNIS, O'SULLIVAN, VOLLEBECK LTD. SURVEY DATED SEPTEMBER 1, 2019**.
21. CIVIL DRAWINGS TO BE READ IN CONJUNCTION WITH ARCHITECTURAL, LANDSCAPE AND LEGAL DRAWINGS.

SANITARY SEWER NOTES

1. ALL SANITARY SEWER MATERIALS AND INSTALLATION SHALL CONFORM TO THE LATEST REVISIONS OF THE STANDARDS AND SPECIFICATIONS OF THE CITY OF OTTAWA, ONTARIO PROVINCIAL STANDARD DRAWINGS (PSD) AND SPECIFICATIONS (SPS).
2. ALL SANITARY SEWERS SHALL BE PVC SDR 35, IPEX "RING-TITE" (OR EQUIVALENT), AS PER CSA STANDARD #132 OR LATEST AMENDMENT, UNLESS OTHERWISE NOTED.
3. SANITARY SEWER TRENCH AND BEDDING SHALL BE AS PER CITY OF OTTAWA STD. 35 AND B7, CLASS B BEDDING UNLESS OTHERWISE NOTED.
4. ALL SANITARY LATERALS ARE TO BE PVC SDR 28, IPEX "RING-TITE" (OR EQUIVALENT), ANY COLOR EXCEPT WHITE AND MARKED WITH A 50mm x 100mm WOODEN MARKER, EXTENDING FROM THE INVERT TO 1.0 M ABOVE GRADE PAINTED RED.
5. SEWER BEDDING AS PER CITY STANDARD 96 & S7. GRANULAR A BEDDING TO BE INCREASED TO 300MM WHERE SEWERS ARE BELOW THE GROUNDWATER TABLE.
6. SANITARY SEWER MANHOLES SHALL BE BENCHES AS PER OPSD 701 021. SANITARY MANHOLE FRAME AND COVERS SHALL BE AS PER CITY OF OTTAWA STD. 524 AND 525. SAFETY PLATFORMS SHALL BE AS PER OPSD 404 02. DROP STRUCTURES SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA SPECIFICATIONS AND OPSD 1003 01.
7. THE CONTRACTOR SHALL CONDUCT INFILTRATION/EXFILTRATION (AS PER CURRENT) (SPS) TESTING ON ALL NEWLY INSTALLED SANITARY SEWERS. THE TEST SHALL BE PERFORMED IMMEDIATELY AFTER SEWER INSTALLATION AND REVIEWED BY THE ENGINEER.
8. THE CONTRACTOR SHALL CONDUCT CCTV INSPECTION OF ALL NEWLY INSTALLED SANITARY SEWERS AND EXISTING SEWERS CONNECTED TO THE TEST SHALL BE PERFORMED IMMEDIATELY AFTER SEWERS INSTALLED.
9. ALL SERVICE CONNECTIONS TO BE CONSTRUCTED AS PER CITY STANDARD S11 & S11.1.
10. THE CONTRACTOR SHALL CONSTRUCT FLEXIBLE SANITARY SEWERS IN ACCORDANCE WITH OPSD 802 010 AND 802 013. DURING CONSTRUCTION, THE CONTRACTOR SHALL PROTECT THE PIPES FROM HEAVY CONSTRUCTION EQUIPMENT. BEDDING AND BACKFILL SHALL BE COMPACTED TO A MINIMUM OF 95% SPREAD.
11. ALL SANITARY BUILDING DRAINS TO BE EQUIPPED WITH SANITARY BACKWATER VALVES INSTALLED PER CITY OF OTTAWA STANDARD DRAWING S14.1.
12. WITHIN THE FROST ZONE, THE BACKFILL IN THE SERVICE TRENCHES SHOULD MATCH THE SOIL ON SIDES TO MINIMIZE DIFFERENTIAL FROST HEAVING IN THE SUBGRADE.
13. MINIMUM SOIL COVER TO BE 2.1m TO PROTECT SEWERS FROM FROST DAMAGE. IN AREAS WHERE ADEQUATE FROST COVER CANNOT BE ACHIEVED, EQUIVALENT THERMAL INSULATION TO BE INSTALLED ON ALL THREE SIDES AS PER CITY OF OTTAWA STD. 535.

STORM SEWER NOTES

1. ALL STORM SEWER MATERIALS AND INSTALLATION SHALL CONFORM TO THE LATEST REVISIONS OF THE STANDARDS AND SPECIFICATIONS OF THE CITY OF OTTAWA, ONTARIO PROVINCIAL STANDARD DRAWINGS (PSD) AND SPECIFICATIONS (SPS).

2. ALL REINFORCED CONCRETE STORM SEWER PIPE SHALL BE IN ACCORDANCE WITH CSA A307.2 (LATEST AMENDMENT). ALL NON-REINFORCED CONCRETE STORM SEWER PIPE SHALL BE IN ACCORDANCE WITH CSA A307.1 (LATEST AMENDMENT). PIPE SHALL BE JOINED WITH FIBRE RUBBER GASKETS AS PER CSA A307.2 (LATEST AMENDMENT).
3. ALL PVC STORM SEWERS ARE TO BE SDR 35 APPROVED PER C.S.A. #182 OR LATEST AMENDMENT, UNLESS OTHERWISE SPECIFIED.
4. THE CONTRACTOR SHALL CONSTRUCT FLEXIBLE STORM SEWERS IN ACCORDANCE WITH OPSD 802 010 AND 802 013. DURING CONSTRUCTION, THE CONTRACTOR SHALL PROTECT THE PIPES FROM HEAVY CONSTRUCTION EQUIPMENT. BEDDING AND BACKFILL SHALL BE COMPACTED TO A MINIMUM OF 95% SPREAD.
5. SEWER BEDDING AS PER CITY STANDARD 96 & S7.
6. ALL STORM LATERALS SHALL BE PVC SDR 28, WHITE IN COLOR AND MARKED WITH A 50mm x 100mm WOODEN MARKER EXTENDING FROM THE INVERT TO 1.0M ABOVE GRADE PAINTED GREEN.
7. ALL SERVICE CONNECTIONS TO BE CONSTRUCTED AS PER CITY STANDARD S11 & S11.1.
8. WITHIN THE FROST ZONE, THE BACKFILL IN THE SERVICE TRENCHES SHOULD MATCH THE SOIL ON SIDES TO MINIMIZE DIFFERENTIAL FROST HEAVING IN THE SUBGRADE.
9. MINIMUM SOIL COVER TO BE 2.1m TO PROTECT SEWERS FROM FROST DAMAGE. IN AREAS WHERE ADEQUATE FROST COVER CANNOT BE ACHIEVED, EQUIVALENT THERMAL INSULATION TO BE INSTALLED ON ALL THREE SIDES AS PER CITY OF OTTAWA STD. 535.
10. FOUNDATION DRAIN SERVICE LATERAL TO BE EQUIPPED WITH APPROVED BACKWATER VALVE AS PER CITY OF OTTAWA STD. 514.
11. STORM MANHOLE FRAME AND COVERS SHALL BE AS PER CITY OF OTTAWA STD. S24, S24.1 AND S25.
12. SAFETY PLATFORMS SHALL BE IN ACCORDANCE WITH OPSD 404 02.
13. DROP STRUCTURES SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA SPECIFICATIONS AND OPSD 1003 01.
14. STORM SEWER MANHOLES SERVING LOCAL SEWERS LESS THAN 1000mm SHALL BE CONSTRUCTED WITH A 300mm SLAB. FOR STORM SEWERS 1000mm AND OVER, USE BENCHING IN ACCORDANCE WITH OPSD 701 021.
15. THE STORM SEWER CLASSES HAVE BEEN DESIGNED BASED ON BEDDING CONDITIONS SPECIFIED. WHERE THE SPECIFIED TRENCH WIDTH IS EXCEEDED, THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ADDITIONAL BEDDING, A DIFFERENT TYPE OF BEDDING OR A HIGHER PIPE STRENGTH AT HIS OWN EXPENSE AND SHALL ALSO BE RESPONSIBLE FOR EXTRA TEMPORARY AND/OR PERMANENT REPAIRS MADE NECESSARY BY THE EXCESS TRENCH.
16. THE CONTRACTOR SHALL CONDUCT CCTV INSPECTION OF ALL NEWLY INSTALLED STORM SEWERS AND EXISTING SEWERS CONNECTED TO THE TEST SHALL BE PERFORMED IMMEDIATELY AFTER THE SEWERS ARE INSTALLED.

WATERMAIN NOTES

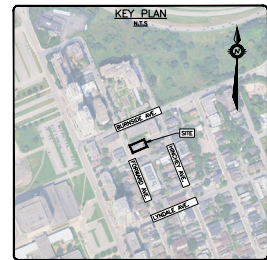
1. ALL WATERMAIN MATERIALS AND INSTALLATION SHALL CONFORM TO THE LATEST REVISIONS OF THE STANDARDS AND SPECIFICATIONS OF THE CITY OF OTTAWA, ONTARIO PROVINCIAL STANDARD DRAWINGS (PSD) AND SPECIFICATIONS (SPS).
2. NO WORK SHALL COMMENCE UNLESS A CITY WATER WORKS INSPECTOR IS ON SITE. WATERMAIN CONNECTIONS BY CITY OF OTTAWA FORCES WITH ALL EXCAVATION BACKFILL AND ROAD REINSTATEMENT BY CONTRACTOR.
3. ALL PVC WATERMANS SHALL BE EQUAL TO AWWA C 900 CLASS 150, SDR 18, OR APPROVED EQUAL.
4. WATERMANS TRENCH AND BEDDING SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STANDARD W17, UNLESS OTHERWISE SPECIFIED. BEDDING AND COVER MATERIAL SHALL BE SPECIFIED BY PROJECT GEOTECHNICAL ENGINEER.
5. ALL PVC WATERMANS SHALL BE INSTALLED WITH A 10 GAUGE STRANDED COPPER TWU OR RWU TRACER WIRE IN ACCORDANCE WITH CITY OF OTTAWA STD. W36.
6. WATER SERVICES SHALL BE MARKED WITH A 50mm x 100mm, EXTENDING FROM THE INVERT TO 1.0m ABOVE GRADE PAINTED TO BLUE. STAND POSTS/STOPS SHALL BE INSTALLED AT THE PROPERTY LINE.
7. CATHODIC PROTECTION IS REQUIRED ON ALL METALLIC FITTINGS AS PER CITY OF OTTAWA STD. W40 AND W42.
8. VALVE BOXES SHALL BE INSTALLED AS PER CITY OF OTTAWA DETAIL W54.
9. ALL WATERMANS TO BE INSTALLED AT MINIMUM COVER OF 2.4m. WHERE MINIMUM FROST COVER CANNOT BE ACHIEVED, PROVIDE RIGID INSULATION ON ALL THREE SIDES AS PER CITY OF OTTAWA STD. W22.
10. THRUST BLOCKS AND RESTRAINT AS PER CITY OF OTTAWA W25.1 AND W25.2.
11. IF WATERMAIN MUST BE DEFLECTED TO MEET ALIGNMENT, ENSURE THAT THE AMOUNT OF DEFLECTION USED IS LESS THAN THAT RECOMMENDED BY THE MANUFACTURER.
12. DISINFECTION AND TESTING OF WATERMAIN TO BE IN ACCORDANCE WITH CITY OF OTTAWA STANDARDS.
13. WATER METERS TO BE PER W90 FOR WATER SERVICES.
14. THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY CAPS, PLUGS AND BLOW-OFFS AND NOZZLES REQUIRES FOR TESTING AND DISINFECTION OF THE WATERMAIN.
15. WATERMANS CROSSING ABOVE OR BELOW SEWERS TO BE INSTALLED AS PER CITY STD. W25 AND W25.2.
16. WHERE THE SEPARATION BETWEEN SERVICES AND MANHOLES IS LESS THAN 12m, WATER SERVICES ARE TO BE INSULATED AS PER CITY OF OTTAWA STD. W23.
17. AS PER CITY GUIDELINE, THE MINIMUM VERTICAL CLEARANCE BETWEEN WATERMAIN AND SEWER (UTILITY IS 250M FOR CROSSING OVER THE SEWER, AS PER CITY STD W25.2 FOR CROSSING UNDER SEWER, THE MINIMUM VERTICAL CLEARANCE IS 0.9M AS PER CITY STD. W25. FOR CROSSING UNDER SEWER, ADEQUATE STRUCTURAL SUPPORT FOR THE SEWERS IS REQUIRED TO PREVENT EXCESSIVE DEFLECTION OF JOINTS AND SETTLING. THE LENGTH OF WATER PIPE SHALL BE EXTENDED AT THE POINT OF CROSSING SO THAT THE JOINTS WILL BE EQUIDISTANT AND AS FAR AS POSSIBLE FROM THE SEWER.

ROADWAY SPECIFICATIONS

1. ALL TOPSOIL AND ORGANIC MATERIAL SHALL BE STRIPPED WITHIN THE ROAD ALLOWANCE PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
2. CONCRETE CURB SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STD. SC1.1 (BARRETT CURB) AND SC1.3 (DURABLE CURB), AS NOTED. PROVISION SHALL BE MADE FOR CURB CURBS/STEPS AT SIDEWALKS AND DRIVEWAYS.
3. PAVEMENT REINSTATEMENT FOR SERVICE AND UTILITY CUTS SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STD. R10 AND OPSD 509 010, OPSD 510.
4. GRANULAR A OR B SHALL BE PLACED TO A MINIMUM THICKNESS OF 300mm AROUND ALL STRUCTURES WITHIN PAVEMENT AREA.
5. ALL GRANULAR FOR ROADS SHALL BE COMPACTED TO A MINIMUM OF 98% STANDARD PROCTOR DENSITY.
6. ASPHALT WEAR COURSE SHALL NOT BE PLACED UNTIL THE VIDEO INSPECTION OF SEWERS & NECESSARY REPAIRS HAVE BEEN CARRIED OUT TO THE SATISFACTION OF THE ENGINEER.
7. SUB-EXCAVATE SOFT AREAS AND FILL WITH GRANULAR 'B' COMPACTED IN MAXIMUM 300mm LIFTS.

GENERAL NOTES FOR GRADING

1. IT SHALL BE THE BUILDER'S RESPONSIBILITY TO ENSURE THAT GRADING AROUND HYDRANTS, TRANSFORMERS, AND UTILITY PEDESTALS, ETC. MEET CURRENT CITY OF OTTAWA, HYDRO AND UTILITY COMPANY REQUIREMENTS.
2. ALL GROUND SURFACES SHALL BE EVENLY GRADED WITHOUT PONDING AREAS AND WITHOUT LOW POINTS EXCEPT WHERE APPROVED SWALE OR CATCH BASIN OUTLETS ARE PROVIDED.



CAUTION
THE POSITION OF ALL POLE LINES, CONDUITS, WATERMANS, SEWERS AND OTHER UNDERGROUND AND OVERGROUND UTILITIES AND STRUCTURES IS NOT NECESSARILY SHOWN ON THESE CONTRACT DRAWINGS, AND WHERE SHOWN, THE ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED. BEFORE STARTING WORK, DETERMINE THE EXACT LOCATION OF ALL UTILITIES AND STRUCTURES AND ASSUME ALL LIABILITY FOR DAMAGE TO THEM.

JOB BENCH MARK
W/O NAIL IN UTILITY POLE ELEVATION = 62.41
TOPOGRAIC INFORMATION PART 1 PLAN OF LOT 3 EAST FORWARD AVENUE REGISTERED PLAN 35 CITY OF OTTAWA
TOPOGRAIC INFORMATION PROVIDED BY ANNIS, O'SULLIVAN, VOLLEBECK LTD. SURVEY DATED SEPTEMBER 6, 2019.
BENCHMARKS ARE GRID, DERIVED FROM THE EASTERLY LIMIT OF FORWARD AVENUE SHOWN TO BE N22°49'50"W ON PLAN 5K-12807 AND ARE REFERRED TO THE CENTRAL BENCHM OF W/M ZONE 9 (72°30' WEST LONGITUDE) NAD-83 (ORIGINAL). ELEVATIONS SHOWN ARE GEODETIC AND ARE REFERRED TO THE GROUND GEODETIC DATUM.

| REV | REVISION DESCRIPTION | DATE | BY | APPROV | REV | REVISION DESCRIPTION | DATE | BY | APPROV |
|-----|-------------------------------|----------|-----|--------|-----|----------------------|------|----|--------|
| 2 | REVISED PER UPDATED SITE PLAN | 18/12/25 | NP | AKU | | | | | |
| 1 | ISSUED FOR SPA | 27/11/25 | AGJ | AKU | | | | | |

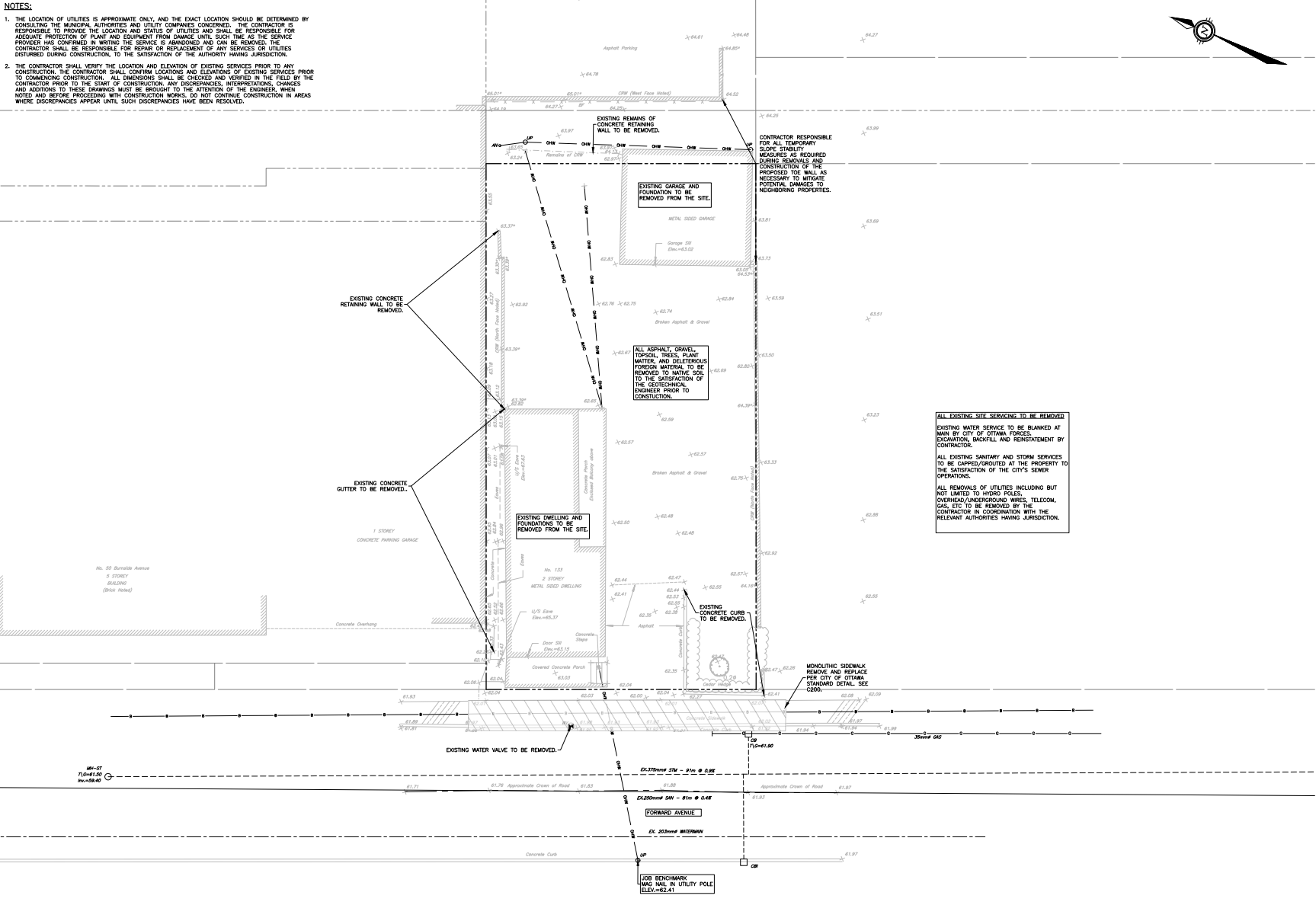
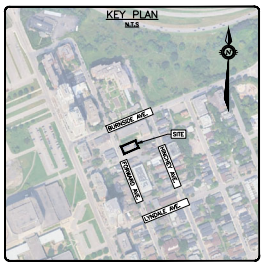


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| PROJ | AGJ | 133 FORWARD AVENUE | PROJ | AGJ | 133 FORWARD AVENUE |
| CONTR | AGJ | 133 FORWARD AVENUE | PROJ | AGJ | 133 FORWARD AVENUE |
| DESIGN | AGJ | OTTAWA, ONTARIO. | PROJ | AGJ | OTTAWA, ONTARIO. |
| DATE | AGJ | 2019-09-09 | PROJ | AGJ | 2019-09-09 |
| PROJ | AGJ | NOTES | PROJ | AGJ | NOTES |
| PROJ | AGJ | C000 | PROJ | AGJ | C000 |

NOTES:

1. THE LOCATION OF UTILITIES IS APPROXIMATE ONLY, AND THE EXACT LOCATION SHOULD BE DETERMINED BY CONSULTING THE MUNICIPAL AUTHORITIES AND UTILITY COMPANIES CONCERNED. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE THE LOCATION AND STATUS OF UTILITIES AND SHALL BE RESPONSIBLE FOR ADEQUATE PROTECTION OF PLANT AND EQUIPMENT FROM DAMAGE UNTIL SUCH TIME AS THE SERVICE PROVIDER HAS CONFIRMED IN WRITING THE SERVICE IS ABANDONED AND CAN BE REMOVED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OR REPLACEMENT OF ANY SERVICES OR UTILITIES DISTURBED DURING CONSTRUCTION, TO THE SATISFACTION OF THE AUTHORITY HAVING JURISDICTION.
2. THE CONTRACTOR SHALL VERIFY THE LOCATION AND ELEVATION OF EXISTING SERVICES PRIOR TO ANY CONSTRUCTION. THE CONTRACTOR SHALL CONFIRM LOCATIONS AND ELEVATIONS OF EXISTING SERVICES PRIOR TO COMMENCING CONSTRUCTION. ALL DIMENSIONS SHALL BE CHECKED AND VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES, INTERPRETATIONS, CHANGES AND ADDITIONS TO THESE DRAWINGS MUST BE BROUGHT TO THE ATTENTION OF THE ENGINEER, WHEN NOTED AND BEFORE PROCEEDING WITH CONSTRUCTION WORKS, DO NOT CONTINUE CONSTRUCTION IN AREAS WHERE DISCREPANCIES APPEAR UNTIL SUCH DISCREPANCIES HAVE BEEN RESOLVED.



ALL EXISTING SITE SERVICES TO BE REMOVED

EXISTING WATER SERVICE TO BE BLANKED AT MAIN BY CITY OF OTTAWA FORCES, EDUCATION, INFRASTRUCTURE AND REINSTATEMENT BY CONTRACTOR.

ALL EXISTING SANITARY AND STORM SERVICES TO BE CAPPED/GROUTED AT THE PROPERTY TO THE SATISFACTION OF THE CITY'S SEWER OPERATIONS.

ALL REMOVALS OF UTILITIES INCLUDING BUT NOT LIMITED TO FIBER POLES, OVERHEAD/UNDERGROUND WIRES, TELECOM, GAS, ETC TO BE REMOVED BY THE CONTRACTOR IN COORDINATION WITH THE RELEVANT AUTHORITIES HAVING JURISDICTION.

LEGEND

- PROPERTY LINE
- - - - - ABUTTING PROPERTY LINE
- EX. E & OF ROAD
- EX. CURB
- EX. RETAINING WALL
- EX. REMAINS OF RETAINING WALL
- EX. FENCE
- EX. EAVES
- EX. ELEVATION
- EX. TOP OF WALL ELEVATION
- EX. OVERHEAD WIRE
- EX. UTILITY POLE AND ANCHOR
- EX. BELL
- EX. GAS
- EX. CATCHBASIN
- EX. CURB INLET CATCHBASIN
- EX. STORM MANHOLE
- EX. SANITARY MANHOLE
- EX. WATER VALVE
- EX. STORM SEWER
- EX. SANITARY SEWER
- EX. WATER MAIN

--- PROP. MONOLITHIC SIDEWALK REMOVE AND REPLACE

CAUTION

THE POSITION OF ALL POLE LINES, CONDUITS, WATERMANS, SEWERS AND OTHER UNDERGROUND AND OVERGROUND UTILITIES AND STRUCTURES IS NOT NECESSARILY SHOWN ON THE CONTRACT DRAWINGS, AND WHERE SHOWN, THE ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED. BEFORE STARTING WORK, DETERMINE THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES AND ASSUME ALL LIABILITY FOR DAMAGE TO THEM.

JOB BENCH MARK

NAD 83 IN UTILITY POLE ELEVATION = 62.41

TOPOGRAPHIC INFORMATION

PART 1 PLAN OF LOT 3 EAST FORWARD AVENUE REGISTERED PLAN 35 CITY OF OTTAWA

TOPOGRAPHIC INFORMATION PROVIDED BY ANNIS, O'SULLIVAN, VOLLEBAEK LTD. SURVEY DATED SEPTEMBER 9, 2016.

BEARINGS ARE GRID, DERIVED FROM THE EASTERLY LIMIT OF FORWARD AVENUE SHOWN TO BE N22°49'50" ON PLAN SR-12807 AND ARE REFERRED TO THE CENTRAL MERIDIAN OF 76°30' WEST LONGITUDE.)

NAD-83 (ORIGINAL). ELEVATIONS SHOWN ARE GEODETIC AND ARE REFERRED TO THE GCG028 GEODETIC DATUM.

| REV | REVISION DESCRIPTION | DATE | BY | APPRO | REV | REVISION DESCRIPTION | DATE | BY | APPRO |
|-----|-------------------------------|----------|-----|-------|-----|----------------------|------|----|-------|
| 2 | REVISED PER UPDATED SITE PLAN | 18/12/25 | NP | AKJ | | | | | |
| 1 | ISSUED FOR SPA | 27/11/25 | AGJ | AKJ | | | | | |



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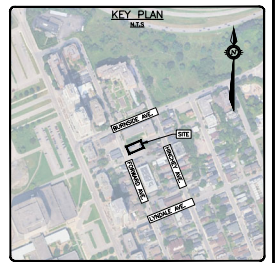
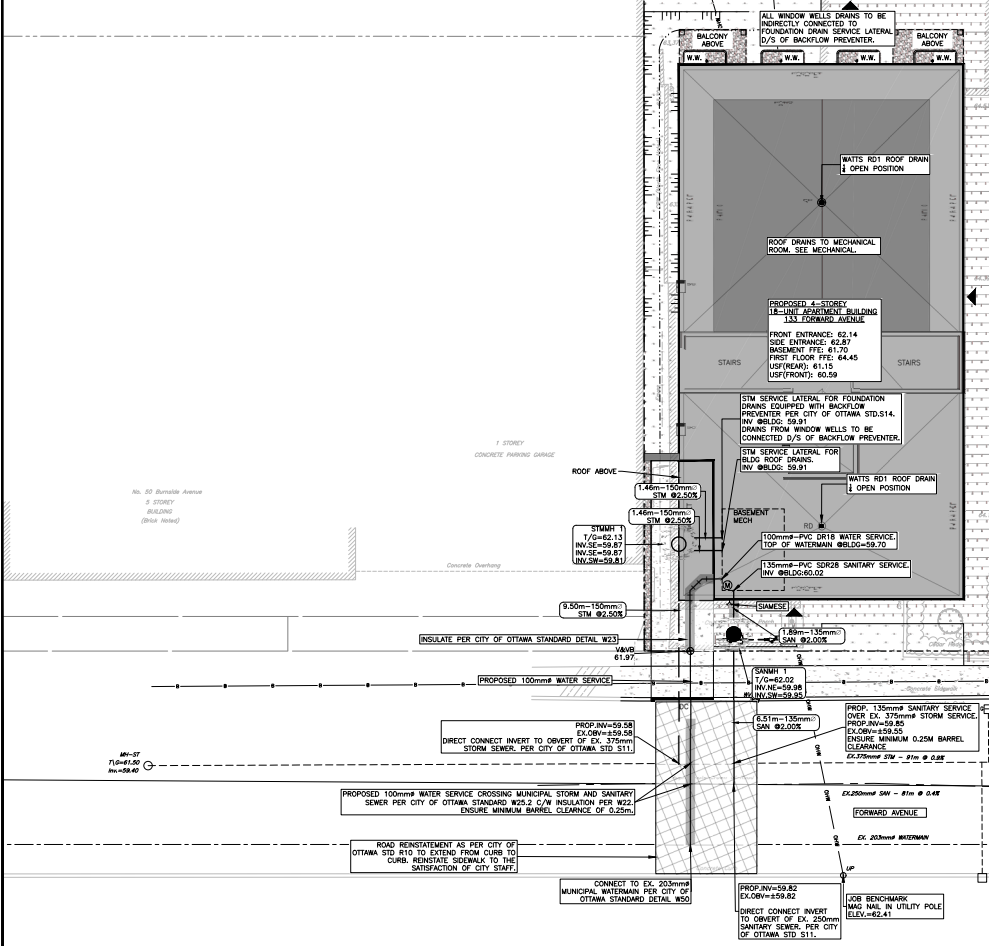
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|-------------|--|-------------|-----------------|
| PROJECT NO. | 133 FORWARD AVENUE | PROJECT NO. | OTT-25012024-AG |
| CLIENT | 133 FORWARD AVENUE OTTAWA, ONTARIO. | CLIENT | ADV LTD. |
| DATE | 2019-09-09 | DATE | 2019-09-09 |
| DRAWING NO. | EXISTING CONDITIONS AND REMOVALS PLAN | DRAWING NO. | C001 |

| PROPOSED SEWER TABLE | | | | | | | | | |
|----------------------|---------|------|-----------------|-------|-------------------|------------|------|--------|-----------|
| STRUCTURE | | TYPE | INVERT ELEV (m) | | NOMINAL DIA. (mm) | LENGTH (m) | Type | Class | Slope (%) |
| U/S | D/S | | U/S | D/S | | | | | |
| BLDG | SANMH1 | SAN | 60.02 | 59.98 | 135 | 1.89 | PVC | SCR 28 | 2.0% |
| SANMH1 | MUN SAN | SAN | 59.95 | 59.82 | 135 | 6.51 | PVC | SCR 35 | 2.0% |
| BLDG | STMMH1 | STM | 59.91 | 59.87 | 150 | 1.46 | PVC | SCR 28 | 2.5% |
| BLDG | STMMH1 | STM | 59.84 | 59.87 | 150 | 1.46 | PVC | SCR 28 | 2.5% |
| STMMH1 | MUN STM | STM | 59.81 | 59.88 | 150 | 9.50 | PVC | SCR 35 | 2.5% |

| STRUCTURE TABLE | | | | | | | | |
|------------------|------|--------------|----------------------------|-------------|---------|--------------|-------|-------|
| STRUCTURE NUMBER | TYPE | LID ELEV (m) | INVERT (m) and DIA (mm) | | SIZE | STRUCTURE | | |
| | | | N | S | | REFERENCE | FRAME | COVER |
| STMMH1 | STM | 62.13 | 59.87 (150) 59.87 (150) | 59.81 (150) | 1200mmØ | CPSD 701.010 | S25 | S24.1 |
| SANMH1 | SAN | 62.02 | 59.98 (135) 59.95 (135) | 59.85 (135) | 1200mmØ | CPSD 701.010 | S25 | S24 |

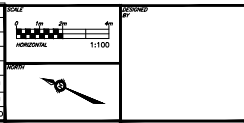


| LEGEND | |
|--------|--|
| --- | PROPERTY LINE |
| --- | ABUTTING PROPERTY LINE |
| --- | EX. E OF ROAD |
| --- | EX. CURB |
| --- | EX. RETAINING WALL |
| --- | EX. REMAINS OF RETAINING WALL |
| --- | EX. FENCE |
| --- | EX. EAVES |
| --- | EX. ELEVATION |
| --- | EX. TOP OF WALL ELEVATION |
| --- | EX. OVERHEAD WIRE |
| --- | EX. UTILITY POLE AND ANCHOR |
| --- | EX. BELL |
| --- | EX. GAS |
| --- | EX. CATCHBASIN |
| --- | EX. CURB INLET CATCHBASIN |
| --- | EX. STORM MANHOLE |
| --- | EX. SANITARY MANHOLE |
| --- | EX. WATER VALVE |
| --- | EX. STORM SEWER |
| --- | EX. SANITARY SEWER |
| --- | EX. 203mmØ WATERMAIN |
| --- | EX. WATER MAIN |
| --- | PROP. STORM |
| --- | PROP. SANITARY |
| --- | PROP. WATER |
| --- | PROP. STORM/SANITARY MANHOLE |
| --- | PROP. VALVE AND VALVEBOX |
| --- | PROP. WINDOW WELL |
| --- | PROPOSED ROAD REINSTATEMENT FOR SERVICE TRENCH |
| --- | PROPOSED ROOF DRAIN |
| --- | PROPOSED SCOUPIER |
| --- | PROPOSED INSULATION AS NOTED |
| --- | PROPOSED WATER METER |
| --- | PROPOSED SIAMOSE CONNECTION |

CAUTION
 THE POSITION OF ALL POLE LINES, CONDUITS, WATERMANS, SEWERS AND OTHER UNDERGROUND AND OVERGROUND UTILITIES AND STRUCTURES IS NOT NECESSARILY SHOWN ON THE CONTRACT DRAWINGS, AND THESE DRAWINGS, THE ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED. BEFORE STARTING WORK, DETERMINE THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES AND ASSUME ALL LIABILITY FOR DAMAGE TO THEM.

JOB BENCH MARK
 MAG NAIL IN UTILITY POLE ELEVATION = 62.41
 TOPOGRAPHIC INFORMATION PART 1 PLAN OF LOT 3 EAST FORWARD AVENUE REGISTERED PLAN 35 CITY OF OTTAWA
 TOPOGRAPHIC INFORMATION PROVIDED BY ANNIS, O'SULLIVAN, VOLLEBECK LTD. SURVEY DATED SEPTEMBER 6, 2016.
 BEARINGS ARE GRID, DERIVED FROM THE EASTERLY LIMIT OF FORWARD AVENUE SHOWN TO BE N22°49'50"W ON PLAN SR-12807 AND ARE REFERRED TO THE CENTRAL MERIDIAN OF NAD 83 (WEST LONGITUDE).
 NAD-83 (ORIGINAL) ELEVATIONS SHOWN ARE GEODETIC AND ARE REFERRED TO THE GGD2025 GEODETIC DATUM.

| REV | REVISION DESCRIPTION | DATE | BY | APPRO |
|-----|-------------------------------|----------|-----|-------|
| 2 | REVISED PER UPDATED SITE PLAN | 18/12/25 | NP | AGJ |
| 1 | ISSUED FOR SPA | 27/11/25 | AGJ | AGJ |



133 FWD LTD
 187 CHEMIN OLD CHELSEA, SUITE 101,
 CHELSEA, QUÉBEC, J9B 1J3
 343.574.4812

PROJ: AGJ
 DES: AGJ
 CHECKED: AGJ
 DATE: 2025/12/19

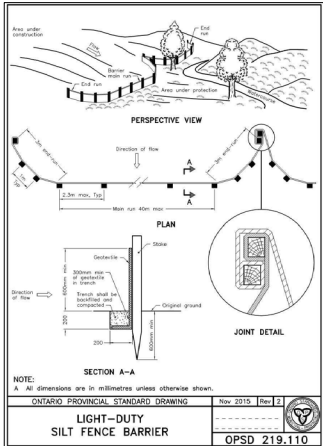
133 FORWARD AVENUE
 133 FORWARD AVENUE
 OTTAWA, ONTARIO.

| | |
|--------------|---------------------|
| PROJECT NO. | OTT-25012024-AC |
| CLIENT | ADV LTD. |
| DATE | 2018-09-09 |
| PROJECT NO. | C100 |
| PROJECT NAME | SITE SERVICING PLAN |
| PROJECT NO. | C100 |

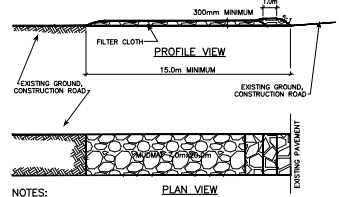
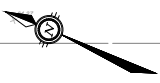
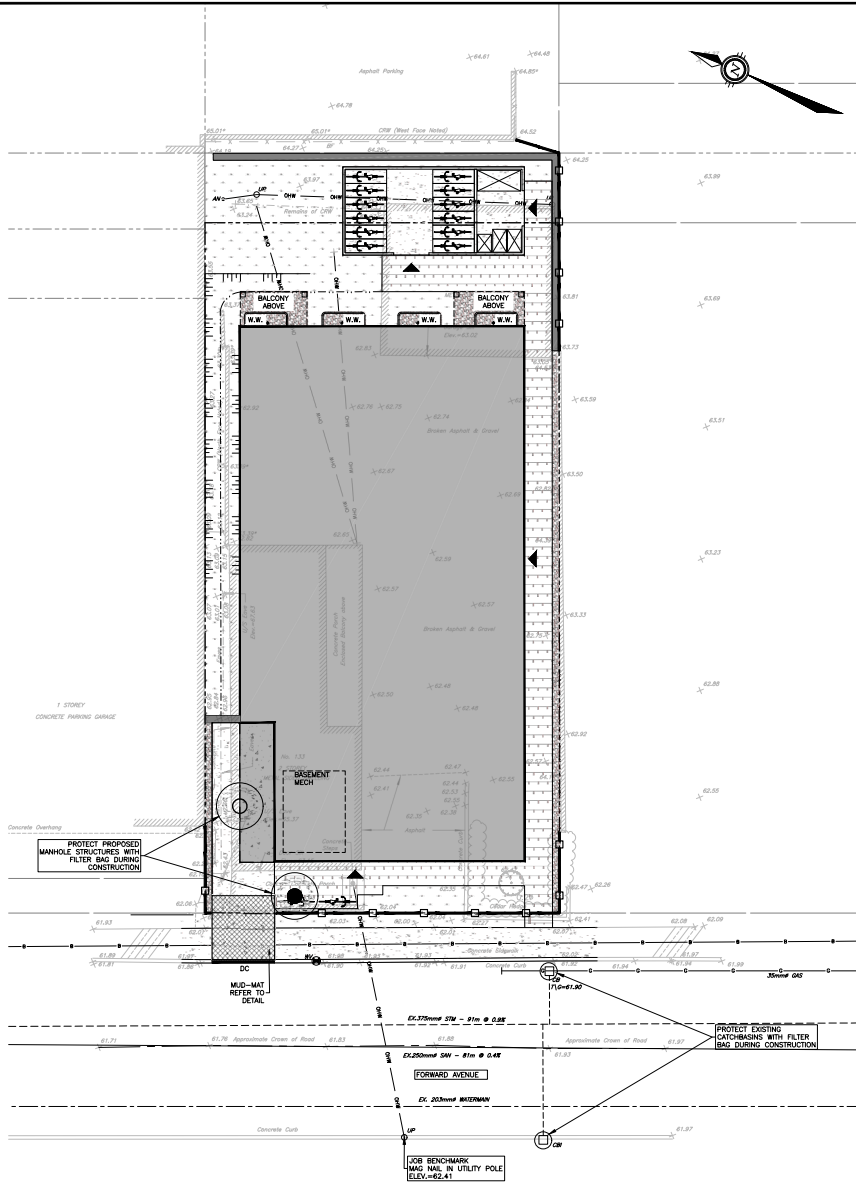
EROSION AND SEDIMENT CONTROLS DURING CONSTRUCTION

DURING ALL CONSTRUCTION ACTIVITIES, EROSION AND SEDIMENTATION SHALL BE CONTROLLED BY THE FOLLOWING TECHNIQUES:

1. LIMITING THE EXTENT OF EXPOSED SOILS AT ANY GIVEN TIME.
2. REVEGETATION OF EXPOSED AREAS AS SOON AS POSSIBLE.
3. MINIMIZATION OF AREA TO BE CLEARED AND DISRUPTION TO ADJACENT AREAS.
4. INSTALLATION OF FILTER CLOTH BETWEEN FRAME AND COVER ON ALL PROPOSED CATCH BASINS AND CATCH BASIN MANHOLES.
5. A SILT FENCE TO BE INSTALLED 0.3m INSIDE THE SITE PROPERTY LINE TO LOCATIONS SHOWN ON THIS DRAWING.
6. A VISUAL INSPECTION SHALL BE COMPLETED DAILY ON SEDIMENT CONTROL BARRIERS AND ANY DAMAGE REPAIRED IMMEDIATELY. CARE WILL BE TAKEN TO PREVENT DAMAGE DURING CONSTRUCTION OPERATIONS.
7. IN SOME CASES SOME BARRIERS MAY BE REMOVED TEMPORARILY TO ACCOMMODATE THE CONSTRUCTION OPERATIONS, THE AFFECTED BARRIERS WILL BE REINSTATED AT NIGHT WHEN CONSTRUCTION IS COMPLETED.
8. THE SEDIMENT CONTROL DEVICES WILL BE CLEARED OF ACCUMULATED SILT AS REQUIRED, THE DEPOSITS WILL BE DISPOSED OF AS PER THE REQUIREMENTS OF THE CONTRACT.
9. DURING THE COURSE OF CONSTRUCTION IF THE ENGINEER BELIEVES THAT ADDITIONAL PREVENTION METHODS ARE REQUIRED TO CONTROL EROSION AND SEDIMENTATION, THE CONTRACTOR WILL INSTALL ADDITIONAL SILT FENCES OR OTHER METHODS AS REQUIRED TO THE SATISFACTION OF THE ENGINEER.
10. CONSTRUCTION AND MAINTENANCE REQUIREMENTS FOR EROSION AND SEDIMENT CONTROLS TO COMPLY WITH ONTARIO PROVINCIAL STANDARD SPECIFICATION (OPSS) OPSS 805, AND CITY OF OTTAWA SPECIFICATIONS.
11. SEDIMENT AND EROSION CONTROL MEASURES MAY BE MODIFIED IN THE FIELD AT THE DISCRETION OF THE CITY OF OTTAWA SITE INSPECTOR OR CONSERVATION AUTHORITY.

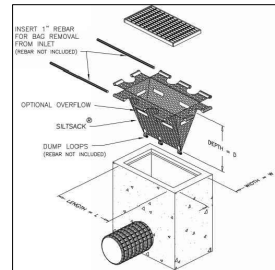


- NOTES:
1. WOOD WIRE FENCE TO BE FASTENED SECURELY TO WOOD POSTS WITH WIRE TIES OR STAPLES.
 2. POSTS TO BE SPACED AT 2.3 METRES CENTRE TO CENTRE.
 3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY A MINIMUM OF 300mm.
 4. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN NECESSARY TO DEVELOP IN THE SILT FENCE.
 5. WOOD POSTS TO BE HARDWOOD TYPE (50mm x 50mm).
 6. GEOTEXTILE TO BE EMBEDDED 200mm INTO GROUND.
 7. GEOTEXTILE TO CONFORM TO OPSS 805 STANDARDS.
 8. SILT FENCE MUST BE INSTALLED BEFORE COMMENCEMENT OF CONSTRUCTION AND IN ACCORDANCE WITH DETAIL. SILT FENCE CAN BE REMOVED AFTER LANDSCAPING IS COMPLETE.
 9. SEDIMENTS MUST BE CLEARED AWAY WHEN THEY REACH HALF THE HEIGHT OF THE FENCE.

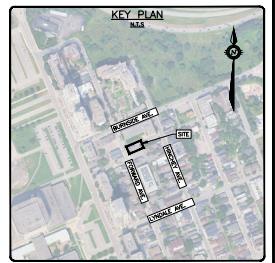


- NOTES:
1. STONE - USE CLEAR CRUSHED 100mm STONE.
 2. LENGTH - AS REQUIRED BUT NOT LESS THAN 15.0m.
 3. THICKNESS - NOT LESS THAN 300mm.
 4. WIDTH - 7.0m MINIMUM, NOT LESS THAN THE WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
 5. FILTER CLOTH - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING STONE.
 6. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEAN OUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SHALL BE REMOVED OR TRACKED ONTO THE PUBLIC RIGHT-OF-WAY MUST BE REMOVED IMMEDIATELY.
 7. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

MUD MAT DETAIL
N.T.S.



FILTER BAG DETAIL
N.T.S.



LEGEND

- PROPERTY LINE
- - - - - ABUTTING PROPERTY LINE
- EX. § OF ROAD
- EX. CURB
- EX. RETAINING WALL
- EX. REMAINS OF RETAINING WALL
- EX. FENCE
- EX. EAVES
- EX. ELEVATION
- EX. TOP OF WALL ELEVATION
- EX. OVERHEAD WIRE
- EX. UTILITY POLE AND ANCHOR
- EX. BELL
- EX. GAS
- EX. CATCHBASIN
- EX. CURB INLET CATCHBASIN
- EX. STORM MANHOLE
- EX. SANITARY MANHOLE
- EX. WATER VALVE
- EX. STORM SEWER
- EX. SANITARY SEWER
- EX. WATER MAIN

MUD MAT

PROP. STORM/SANITARY MANHOLE

CAUTION
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JOB BENCH MARK
MAG NAIL IN UTILITY POLE ELEVATION = 62.41
TOPOGRAPHIC INFORMATION PART 1 PLAN OF LOT 3 EAST FORWARD AVENUE REGISTERED PLAN 35 CITY OF OTTAWA
TOPOGRAPHIC INFORMATION PROVIDED BY ANNS, O'SULLIVAN, VOLLEBECK LTD. SURVEY DATED SEPTEMBER 6, 2019.
BENCHMARKS ARE GRID, DERIVED FROM THE EASTERLY LIMIT OF FORWARD AVENUE SHOWN TO BE N22°49'50"W ON PLAN 5R-12807 AND ARE REFERRED TO THE CENTRAL MERIDIAN OF 4TH ZONE 9 (7°03'W WEST LONGITUDE.)
NAQ-83 (ORIGINAL) ELEVATIONS SHOWN ARE GEODETIC AND ARE REFERRED TO THE GGD028 GEODETIC DATUM.

| REV | REVISION DESCRIPTION | DATE | BY | APPRO |
|-----|-------------------------------|----------|-----|-------|
| 2 | REVISED PER UPDATED SITE PLAN | 18/12/25 | NP | AKJ |
| 1 | ISSUED FOR SPA | 27/11/25 | AGJ | AKJ |



133 FWD LTD
187 CHEMIN OLD CHELSEA, SUITE 101,
CHELSEA, QUÉBEC, J9B 1J3
343.574.4812

exp

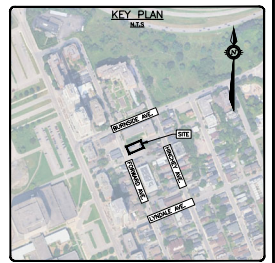
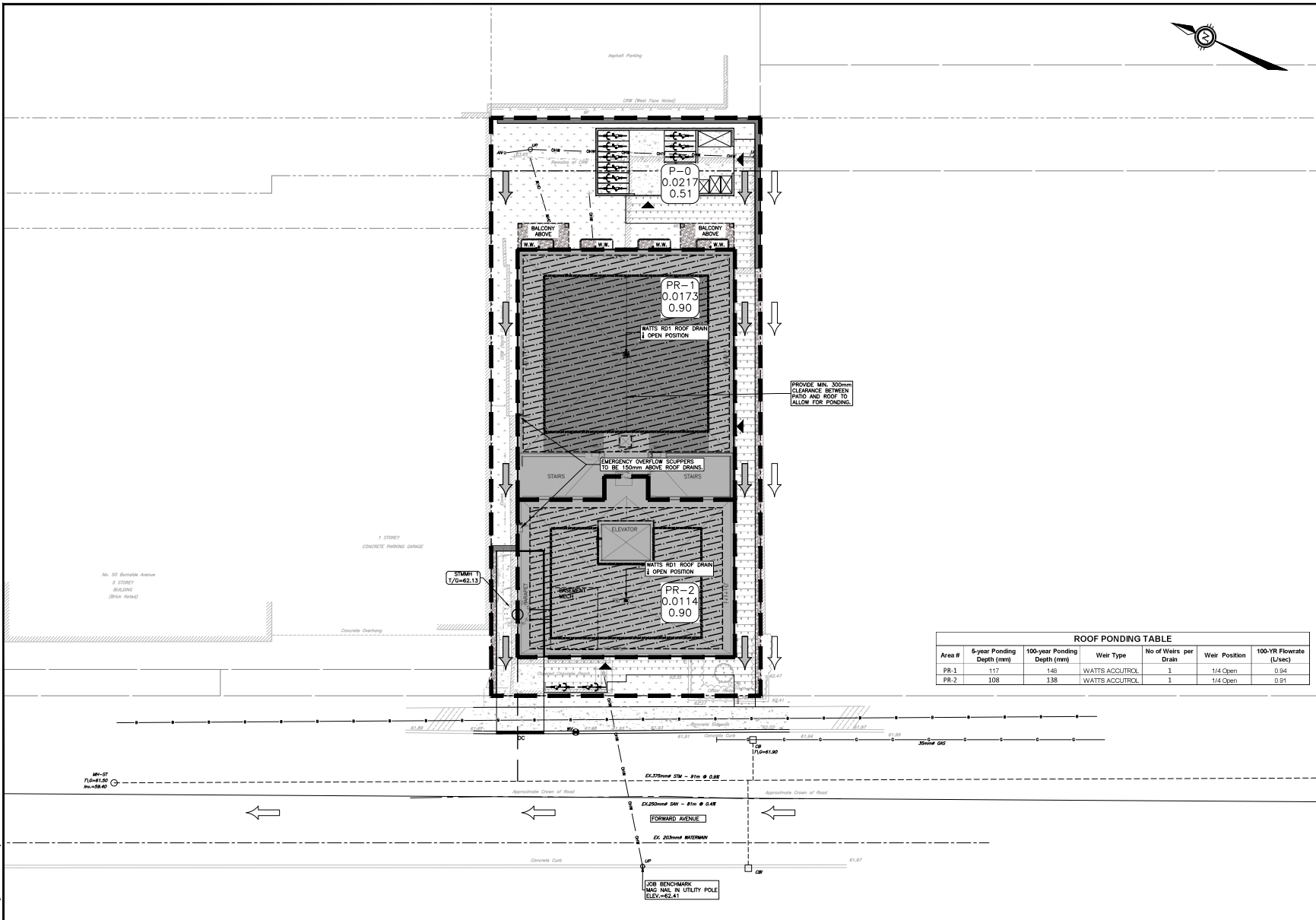
PROJ: 133 FWD LTD
SHEET: 01 OF 02
DATE: 2025/12/19

133 FORWARD AVENUE
133 FORWARD AVENUE
OTTAWA, ONTARIO.

EROSION AND SEDIMENT CONTROL PLAN

C300

DATE: 2018-09-09



LEGEND

- PROPERTY LINE
- - - ABUTTING PROPERTY LINE
- EX. § OF ROAD
- EX. CURB
- EX. RETAINING WALL
- EX. REMAINS OF RETAINING WALL
- EX. FENCE
- EX. EAVES
- EX. ELEVATION
- EX. TOP OF WALL ELEVATION
- EX. OVERHEAD WIRE
- EX. UTILITY POLE AND ANCHOR
- EX. BELL
- EX. GAS
- EX. CATCHBASIN
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- EX. STORM MANHOLE
- EX. SANITARY MANHOLE
- EX. WATER VALVE
- EX. STORM SEWER
- EX. SANITARY SEWER
- EX. WATER MAIN

ON-SITE OVERLAND FLOW ROUTE
OFF-SITE OVERLAND FLOW ROUTE

POST-DEVELOPMENT CATCHMENTS

ID AREA "C"

CATCHMENTS LABEL

PROP. GRASS
PROP. CONCRETE
PROP. INTERLOCK
PROP. RIVER ROCK
PROP. STORM MANHOLE
PROP. STORM
PROP. ROOF DRAINS
PROP. SCUPPERS
PROP. WINDOW WELL
5 YEAR PONDING
100 YEAR PONDING

ROOF PONDING TABLE

| Area # | 5-year Ponding Depth (mm) | 100-year Ponding Depth (mm) | Weir Type | No of Weirs per Drain | Weir Position | 100-YR Flowrate (L/Sec) |
|--------|---------------------------|-----------------------------|----------------|-----------------------|---------------|-------------------------|
| PR-1 | 117 | 148 | WATTS ACCUTROL | 1 | 1/8 Open | 0.94 |
| PR-2 | 108 | 138 | WATTS ACCUTROL | 1 | 1/4 Open | 0.91 |

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| REV | REVISION DESCRIPTION | DATE | BY | APPROV |
|-----|-------------------------------|----------|-----|--------|
| 1 | ISSUED FOR SPA | 27/11/25 | AGJ | AGJ |
| 2 | REVISED PER UPDATED SITE PLAN | 18/12/25 | NP | AKJ |

SCALE: HORIZONTAL 1:100

DESIGNED BY: A. V. JARVILA 100562390 2025/12/19

PROFESIONAL ENGINEER PROVINCE OF ONTARIO

133 FWD LTD
187 CHEMIN OLD CHELSEA, SUITE 101,
CHELSEA, QUEBEC, J9B 1J3
343.574.4812

exp

133 FORWARD AVENUE
133 FORWARD AVENUE
OTTAWA, ONTARIO.

POST-DEVELOPMENT CATCHMENTS

PROJECT NO: C500

DATE: 2018-09-09