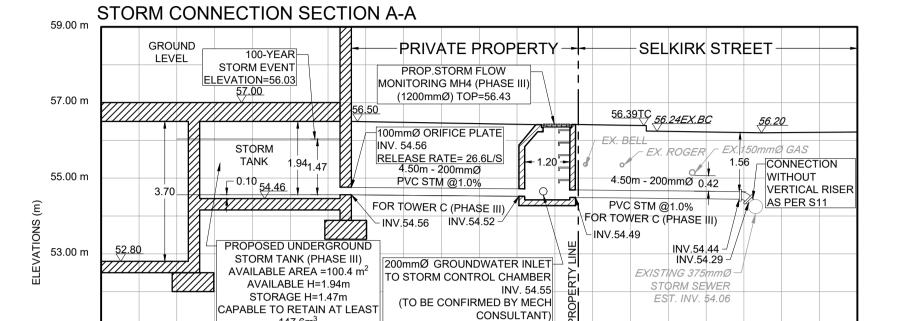


**ANDREW MCCREIGHT** MANAGER, DEVELOPMENT REVIEW CENTRAL PLANNING. DEVELOPMENT & BUILDING SERVICES DEVELOPMENT DEPARTMENT, CITY OF OTTAWA

**APPROVED** 

By Andrew McCreight at 10:02 am, Sep 25, 2024



10.00

12.00

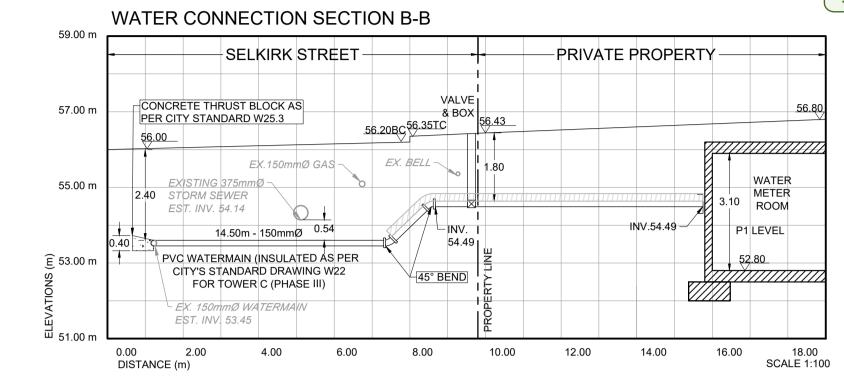
14 00

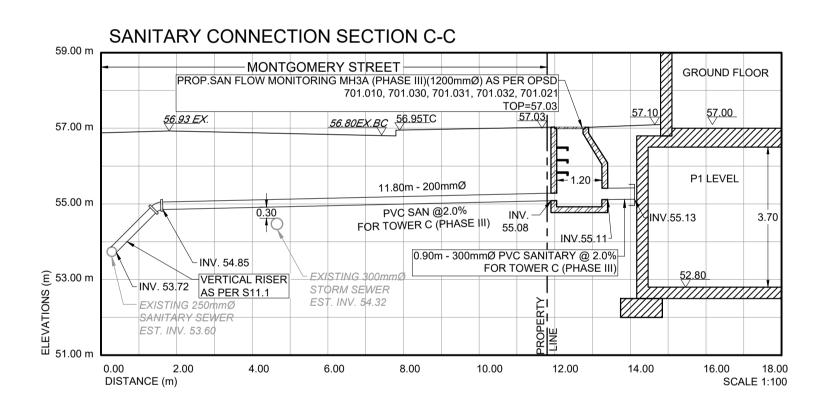
16.00

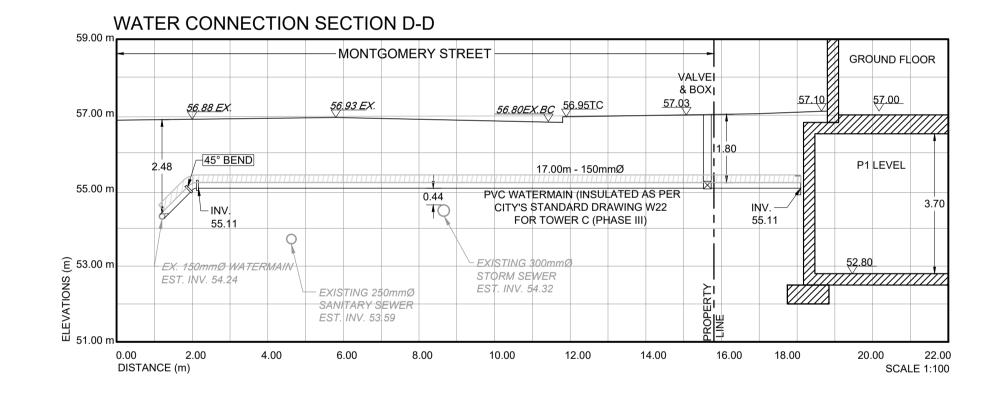
18.00

20.00

SCALE 1:100







# STORM SEWERS

- 1. ALL PVC STORM SEWERS ARE TO BE SDR 35 APPROVED PER C.S.A. B182.2 OR LATEST AMENDMENT,
- UNLESS OTHERWISE SPECIFIED. 2. ALL STORM SEWER TRENCH AND BEDDING SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STD. S6 AND S7 CLASS "B" UNLESS OTHERWISE SPECIFIED. BEDDING AND COVER MATERIAL SHALL BE SPECIFIED BY PROJECT GEOTECHNICAL ENGINEER.
- 3. ALL STORM LATERALS SHALL BE PVC SDR 28, WHITE IN COLOR AND MARKED WITH A 50MMX100MM WOODEN MARKER EXTENDING FROM THE INVERT TO 1.0 M ABOVE GRADE PAINTED GREEN. HOUSE CONNECTIONS SHALL BE 2.0M MIN. BELOW FINISHED GRADE AT STREET LINE WHERE POSSIBLE. SINGLE CONNECTIONS SHALL BE 100MM DIA..
- 4. ALL STORM SERVICES TO BE EQUIPPED WITH APPROVED BACKWATER VALVES.

2.00

4 00

6.00

8.00

0.00

DISTANCE (m)

- 5. STORM MANHOLE FRAME AND COVERS SHALL BE AS PER CITY OF OTTAWA STD. S24, S24.1, AND S25.
- 6. SAFETY PLATFORMS SHALL BE IN ACCORDANCE WITH OPSD 404.02. 7. STORM SEWER MANHOLES SERVING LOCAL SEWERS LESS THAN 900MM SHALL BE CONSTRUCTED WITH A 300MM SUMP
- 8. THE STORM SEWER CLASSES HAVE BEEN DESIGNED BASED ON BEDDING CONDITIONS SPECIFIED ABOVE. 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 WIDENED TRENCH.

## **SANITARY SEWERS**

- 1. ALL SANITARY SEWERS SHALL BE PVC SDR 35, IPEX "RING-TITE" (OR EQUIVALENT), AS PER CSA STANDARD
- B182.2 OR LATEST AMENDMENT, UNLESS OTHERWISE NOTED. 2. SANITARY SEWER TRENCH AND BEDDING SHALL BE AS PER CITY OF OTTAWA STD. S6 AND S7 CLASS "B"
- BEDDING UNLESS OTHERWISE NOTED. 3. ALL SANITARY LATERALS ARE TO BE PVC SDR 28, IPEX "RING-TITE" (OR EQUIVALENT), ANY COLOR EXCEPT WHITE AND MARKED WITH A 50MMX100MM WOODEN MARKER EXTENDING FROM THE INVERT TO 1.0 M ABOVE GRADE PAINTED RED. HOUSE CONNECTIONS SHALL BE 2.75M MIN. BELOW FINISHED GRADE AT STREET LINE WHERE POSSIBLE, SINGLE CONNECTIONS SHALL BE 135MM DIA..
- 4. ALL SANITARY SERVICES TO BE EQUIPPED WITH APPROVED BACKWATER VALVES. 5. SANITARY MANHOLE FRAME AND COVERS SHALL BE AS PER CITY OF OTTAWA STD. S24 AND S25.

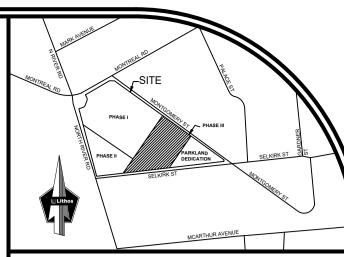
- 6. SAFETY PLATFORMS SHALL BE IN ACCORDANCE WITH OPSD 404.02.
- 7. SANITARY SEWER MANHOLES SHALL BE BENCHED AS PER OPSD 701.021. 8. SANITARY PRE-CAST MANHOLE SHALL BE CONSTRUCTED WITH A HIGHER PERCENTAGE OF SILICA FUME
- IN THE CONCRETE TO MAKE IT MORE DENSE AND LESS SUSCEPTIBLE TO CORROSION OR PINHOLE LEAKS.
- 9. FOR SANITARY MANHOLES, DEPENDING ON THE ELEVATION OF THE GROUNDWATER TABLE, AND BASED ON THE RECOMMENDATION OF THE PROJECT GEOTECHNICAL CONSULTANT, CRETEX SEALS, OR A SIMILAR PRODUCT, SHALL BE INSTALLED IN THE FIRST PRE-CAST MANHOLE SECTION TO JUST BELOW THE MANHOLE FRAME TO PREVENT INFILTRATION.

#### GENERAL NOTES

- 1. ALL SEWERS CONSTRUCTED WITH GRADES 0.5% OR LESS, SHALL BE INSTALLED WITH PIPE LASER AND
- CHECKED WITH LEVEL INSTRUMENTS PRIOR TO BACKFILLING. 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADDITIONAL BEDDING OR ADDITIONAL STRENGTH PIPE IF THE MAXIMUM TRENCH WIDTH, AS SPECIFIED BY OPSD, IS EXCEEDED.
- 3. CONTRACTOR SHALL PERFORM LEAKAGE TESTING, IN THE PRESENCE OF THE CONSULTANT, FOR SANITARY SEWERS IN ACCORDANCE WITH OPSD 410 AND OPSS 407. CONTRACTOR SHALL PERFORM VIDEO INSPECTION OF ALL STORM AND SANITARY SEWERS. A COPY OF THE VIDEO AND INSPECTION REPORT SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW.
- 4. CLAY SEALS TO BE INSTALLED AS PER CITY STANDARD DRAWING NO. S8. THE SEALS SHOULD BE AT LEAST 1.5M LONG (IN THE TRENCH DIRECTION) AND SHOULD EXTEND FROM TRENCH WALL TO TRENCH WALL. GENERALLY, THE SEALS SHOULD EXTEND FROM BELOW THE FROST LINE, 1,5 TO 2,0 M BELOW FINISH GRADE, AND FULLY PENETRATE THE BEDDING, SUBBEDDING AND PIPE COVER MATERIAL. THE BARRIERS SHOULD CONSIST OF RELATIVELY DRY AND COMPACTABLE BROWN SILTY CLAY PLACED IN MAXIMUM 225MM THICK LOOSE LAYERS COMPACTED TO A MINIMUM OF 95% OF THE MATERIAL'S SPMDD. THE CLAY SEALS SHOULD BE PLACED AT THE SITE BOUNDARIES AND AT STRATEGIC LOCATIONS AT NO
- MORE THAN 100M INTERVALS IN THE SERVICE TRENCHES. 5. ALL INSPECTIONS SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL AND PROVINCIAL PRIVACY LEGISLATION INCLUDING THE CANADIAN PERSONAL INFORMATION PROTECTION AND ELECTRONIC DOCUMENTS ACT (PIPEDA). DOCUMENTATION CONFIRMING COMPLIANCE WITH THIS LEGISLATION SHALL BE MADE AVAILABLE TO THE OWNER AND SUBMITTED WITH THE PRE-CONSTRUCTION INSPECTION REPORT.

#### WATER SUPPLY

- 1. ALL PVC WATERMAINS SHALL BE EQUAL TO AWWA C-900 CLASS 150, SDR 18, OR APPROVED EQUAL. 2. WATERMAIN 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. 3. ALL PVC WATERMAINS SHALL BE INSTALLED WITH A 10 GAUGE STRANDER COPPER TWU OR RWU TRACER WIRE IN ACCORDANCE WITH CITY OF OTTAWA STD. W36.
- 4. WATER SERVICES ARE TO BE TYPE K SOFT COPPER AS PER CITY OF OTTAWA STD. W26 UNLESS OTHERWISE SPECIFIED. SINGLE SERVICES SHALL BE 20MM DIA. 50MM DIA COPPER SHALL BE USED FOR PARK SERVICES. WATER SERVICES SHALL BE MARKED WITH A "50MMX100MM", EXTENDING FROM THE INVERT TO 1.0M
- ABOVE GRADE PAINTED BLUE. STAND POSTS / SHUT-OFFS SHALL BE INSTALLED AT PROPERTY LINE. CATHODIC PROTECTION IS REQUIRED ON ALL METALLIC FITTINGS AS PER CITY OF OTTAWA STD. W40 AND
- CONTRACTOR TO SUPPLY HYDRANT EXTENSION TO ADJUST THE LENGTH OF HYDRANT BARREL. FIRE HYDRANTS SHALL BE INSTALLED AS PER CITY OF OTTAWA STD. W19, AND LOCATED AS PER CITY
- STD. W18. VALVE IN BOXES SHALL BE INSTALLED AS PER CITY OF OTTAWA STD. W24.
- THRUST BLOCKING OF WATERMAIN TO BE INSTALLED AS PER CITY OF OTTAWA STD. W25.3 AND W25.4. 10. THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY CAPS, PLUGS AND BLOW-OFFS AND NOZZLES REQUIRED FOR TESTING AND DISINFECTION OF THE WATERMAIN.
- 11. WHERE SEPARATION BETWEEN SERVICES AND MANHOLES IS LESS THAN 1.2M., WATER SERVICES ARE TO BE INSULATED AS PER CITY OF OTTAWA STD. W23.
- 12. AS PER CITY GUIDELINE, THE MINIMUM VERTICAL CLEARANCE BETWEEN WATERMAIN AND SEWER / UTILITY IS 0.25M FOR CROSSING OVER THE SEWER, AS PER CITY STD W25.2. FOR CROSSING UNDER SEWER, THE MINIMUM VERTICAL CLEARANCE IS 0.50M 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 CENTERED AT THE POINT OF CROSSING SO THAT THE JOINTS WILL BE EQUIDISTANT AND AS FAR AS
- POSSIBLE FROM THE SEWER. 13. ALL WATER SERVICES CROSSING SEWERS ARE TO BE INSTALLED AS PER CITY OF OTTAWA STD. W38.



© 2024 GOOGLE, MAP DATA © 2024 TELE ATLAS LOCATION PLAN NTS

#### LIST OF DRAWINGS

SG-01 (SITE GRADING PLAN- PHASE III) SG-02 (SITE GRADING PLAN- PHASE I-II-III-PRELIMINARY) SS-01 (SITE SERVICING PLAN) SS-02 (SERVICING SECTIONS) SS-03 (SITE SERVICING PLAN-PHASES I-II-III PRELIMINARY) EC-01 (EROSION CONTROL PLAN) DD-01 (DETAIL DRAWINGS) DD-02 (DETAIL DRAWINGS) DD-03 (DETAIL DRAWINGS) CU-01 (COMPOSITE UTILITIES PLAN)

### SITE PLAN INFORMATION

RR-01 (ROADWAY REINSTATEMENT PLAN)

RODERICKLAHEY ARCHITECTS INC. 56 Beech Street, Ottawa, Ontario K1S 3J6 TEL.: 613.724.9932 FAX: 613 724 1209

RM-01 (REMOVALS PLAN)

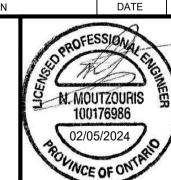
#### SURVEY INFORMATION

ANNIS, O' SULLIVAN, VOLLEBEKK LTD. ONTARIO LAND SERVEYORS 14 CONCOURSE GATE, SUITE 500 NEPEAN, ON K2E 7S6 T: (613) 727-0850 F: (613) 727-1079 E: Nepean@aovltd.com

www.rodericklahey.ca

ELEVATIONS SHOWN HEREON ARE GEODETIC AND ARE REFERRED TO THE CGVD28 GEODETIC DATUM, DERIVED FROM CITY OF OTTAWA BENCHMARK No. 3465 HAVING AN ELEVATION OF 62.831m.

7.	ISSUED FOR SPA	FEB 05, 2024	NM			
6.	ISSUED FOR 70% CD	JAN 09, 2024	NM			
5.	ISSUED FOR PERMIT	NOV 24, 2023	NM			
4.	ISSUED FOR ZBA/SPA	NOV 13, 2023	NM			
3.	ISSUED FOR ZBA/SPA	OCT 06, 2023	NM			
2.	ISSUED FOR 50% CD	SEP 29, 2023	NM			
1.	ISSUED FOR ZBA/SPA	JUN 13, 2023	NM			



CITY OF OTTAWA

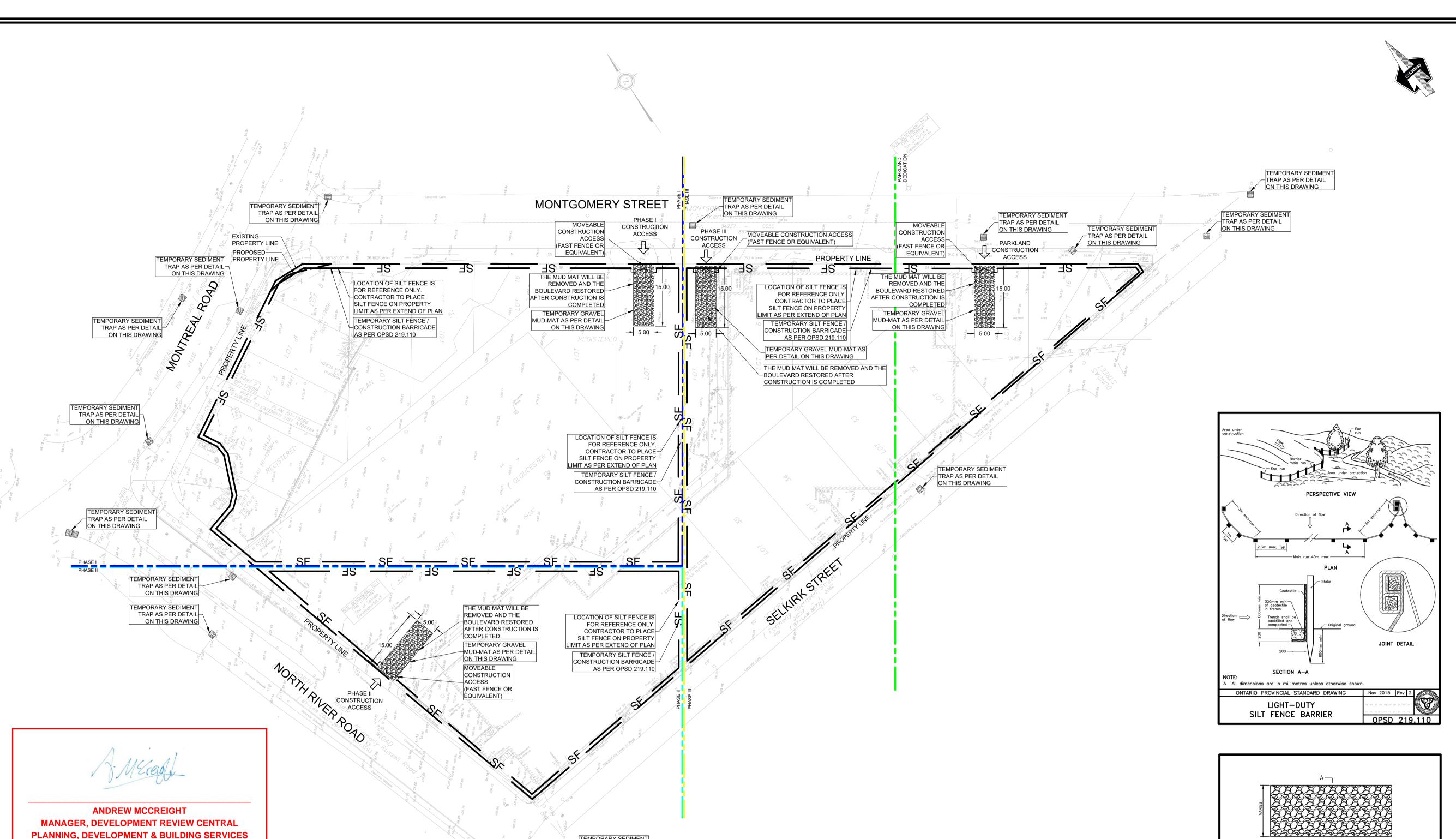
SERVICING SECTIONS

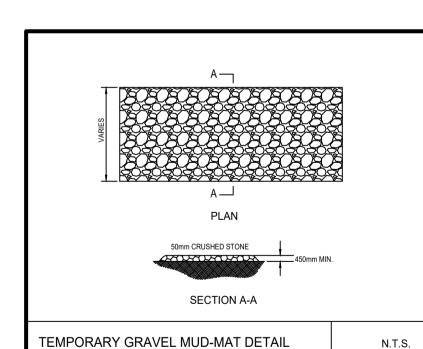
RESIDENTIAL USE DEVELOPMENT 300 MONTGOMERY STREET OTTAWA, ONTARIO



150 Bermomdsey Road , Toronto, Ontario M4A 1Y1

DESIGNED BY:EG DATE: JUNE, 2021 CHECKED BY: NI APPROVED BY:NM RAWN BY: EG PROJECT No: SCALE: 1:100 DRAWING No: SS-02 UD23-002 © COPYRIGHT 2024 Lithos Group Ltd





LIFT GRATE AND DRAPE TERRAFIX 270R GEOTEXTILE OVER FRAME. CLOSE GRATE TO HOLD GEOTEXTILE IN PLACE

NOTE.
TEMPORARY INLET SEDIMENT CONTROL DEVICE TO BE INSTALLED & MAINTAINED OVER ALL CATCH
BASINS/DITCH INLETS WITHIN THE ZONE OF INFLUENCE OF CONSTRUCTION RUNOFF UNTIL ENTIRE AREA
HAS BEEN PAVED AND/OR SODDED AS REQUIRED.

N.T.S.

TEMPORARY SEDIMENT TRAP DETAIL

#### **EROSION AND SEDIMENT CONTROL**

DEVELOPMENT DEPARTMENT, CITY OF OTTAWA

By Andrew McCreight at 10:02 am, Sep 25, 2024

**APPROVED** 

- 1. TEMPORARY EROSION AND SEDIMENT CONTROL SYSTEMS SHALL BE INSTALLED AND MAINTAINED, BY THE CONTRACTOR, AS DIRECTED BY THE GOVERNMENTAL AUTHORITY AND LOCAL MUNICIPALITY AND SHOULD BE IN ACCORDANCE WITH THE CITY OF OTTAWA EROSION AND SEDIMENT CONTROL PLAN, MONITORING AND MEASURES STANDARD (F-1004, DATED MARCH 2014), TO CONTROL SILTATION AT ALL TIMES DURING THE LIFE OF THE PROJECT
- 2. THE CONTRACTOR SHALL INSTALL ALL SILTATION CONTROL MEASURES PRIOR TO THE START OF SITE WORKS AND MAINTAIN ALL SEDIMENT CONTROL DEVICES THROUGHOUT ALL CONSTRUCTION ACTIVITY TO ENSURE THAT SILT-LADEN WATER DOES NOT AT ANY TIME ENTER THE DOWNSTREAM SEWER SYSTEM, EXISTING WATER COARSE, OR ADJACENT LANDS.
- 3. SEDIMENT CONTROL FENCE SHALL BE AS PER DETAIL ON THIS DRAWING, OR APPROVED EQUIVALENT. SEDIMENT CONTROL FENCE INSTALLATION SHALL BE IN ACCORDANCE WITH OPSS 805 WHERE APPROPRIATE, OR IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- 4. TEMPORARY EROSION AND SEDIMENT CONTROL SYSTEMS SHALL BE INSPECTED BY THE CONTRACTOR ON A REGULAR BASIS AND IMMEDIATELY AFTER EACH RAINFALL AND REPAIRED IF REQUIRED.
- 5. THE CONTRACTOR WILL BE REQUIRED TO MAINTAIN EXISTING ROADS IN A CLEAN CONDITION AT ALL TIMES.

6. THE CONTRACTOR SHALL ENSURE THAT ALL CONSTRUCTION EQUIPMENT AND 11. THE CONTRACTOR SHALL CONSIDER CONTROL MEASURES SUCH AS LIMITING MACHINERY IS MAINTAINED IN GOOD OPERATING CONDITION, FREE OF LEAKS OR EXCESS OIL OR GREASE.

TEMPORARY SEDIMENT

TRAP AS PER DETAIL ON THIS DRAWING

- 7. THE CONTRACTOR SHALL HAVE ALL DUE REGARD FOR THE PROTECTION OF THE ENVIRONMENT IN THE PERFORMANCE OF THE WORK AND SHALL NOT PLACE ANY MATERIALS, OR DISPOSE OF ANY MATERIALS, OR PERFORM ANY WORK IN A MANNER CONTRARY TO APPLICABLE FEDERAL, PROVINCIAL OR MUNICIPAL ENVIRONMENTAL LAWS AND REGULATIONS.
- 8. THE CONTRACTOR WILL BE REQUIRED TO INCORPORATE ALL PERMANENT EROSION CONTROL FEATURES INTO THE PROJECT AT THE EARLIEST PRACTICAL TIME TO MINIMIZE THE NEED FOR TEMPORARY CONTROLS.
- 9. ADDITIONAL CONTROLS AS DEEMED REQUIRED BY THE AUTHORITIES AND/OR THE SITEWORKS ENGINEER OF RECORD DURING CONSTRUCTION ACTIVITIES SHALL BE PROVIDED BY THE CONTRACTOR. ADDITIONAL SILT FENCING MUST BE AVAILABLE IN CASE IMMEDIATE REPAIR IS REQUIRED.
- 10. THE CONTRACTOR ACKNOWLEDGES THAT SURFACE EROSION AND SEDIMENT RUNOFF RESULTING FROM HIS CONSTRUCTION OPERATIONS MAY HAVE A DETRIMENTAL IMPACT ON ANY DOWNSTREAM WATERCOURSE OR SEWER, AND THAT ALL CONSTRUCTION OPERATIONS THAT MAY IMPACT UPON WATER QUALITY SHALL BE CARRIED OUT IN A MANNER THAT STRICTLY MEETS THE REQUIREMENTS OF ALL APPLICABLE LEGISLATION AND REGULATIONS AS PER THE LATEST VERSION OF THE FORMER REGION OF OTTAWA-CARLETON ON APPLICATION OF EROSION AND SEDIMENT CONTROL ON CONSTRUCTION PROJECTS.
- THE AMOUNT OF EXPOSED SOILS, USING FILTER CLOTHS IN CATCH BASINS OR OTHER OPEN STRUCTURES, SEDIMENTATION TRAPS OR OTHER SUCH METHODS THEY DEEM APPROPRIATE IN ORDER TO MINIMIZE THE NEGATIVE IMPACTS THEIR CONSTRUCTION ACTIVITIES WILL HAVE ON THE AREA DRAINAGE SYSTEMS AND ULTIMATELY THE RECEIVING WATER COURSE.
- 12. WHATEVER SYSTEM OF CONTROLS THE CONTRACTOR UTILIZES ON THE PROJECT, IT IS NECESSARY FOR THEM TO MONITOR THE EFFECTIVENESS OF THE MEASURES REGULARLY AND MAINTAIN, CLEAN, REPAIR, REPLACE OR UNDERTAKE ANY ADDITIONAL MEASURES IN ORDER TO ACHIEVE THE DESIRED RESULTS.
- 13. THE CONTRACTORS ACKNOWLEDGES THAT FAILURE TO IMPLEMENT APPROPRIATE EROSION AND SEDIMENT CONTROL MEASURES MAY BE SUBJECT TO PENALTIES IMPOSED BY ANY APPLICABLE REGULATORY AGENCY.

14. THE CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES TO PROVIDE FOR PROTECTION OF THE AREA DRAINAGE SYSTEM AND THE RECEIVING WATER COURSE DURING CONSTRUCTION. THIS INCLUDES (BUT IS NOT LIMITED TO) LIMITING THE AMOUNT OF EXPOSED SOIL, USING FILTER CLOTH UNDER THE GRATES OF CATCH BASINS AND MANHOLES, AND INSTALLING SILT FENCES AND OTHER EFFECTIVE SEDIMENT TRAPS. EROSION CONTROL MEASURES SHALL ONLY BE REMOVED WHEN THE PROPOSED LANDSCAPING HAS BEEN ESTABLISHED.



#### LEGEND

EXISTING PROPERTY LINE

PROPOSED PROPERTY LINE

PHASING LINE

TEMPORARY SEDIMENT CONTROL FENCE

TEMPORARY CONSTRUCTION ACCESS

TEMPORARY SEDIMENT TRAP

TEMPORARY GRAVEL MUD MAT

#### LIST OF DRAWINGS

SG-01 (SITE GRADING PLAN- PHASE III) SG-02 (SITE GRADING PLAN- PHASE I-II-III-PRELIMINARY) SS-01 (SITE SERVICING PLAN)

505050

- SS-02 (SERVICING SECTIONS) SS-03 (SITE SERVICING PLAN-PHASES I-II-III PRELIMINARY)
- EC-01 (EROSION CONTROL PLAN)
- DD-01 (DETAIL DRAWINGS) DD-02 (DETAIL DRAWINGS)
- DD-03 (DETAIL DRAWINGS)
- CU-01 (COMPOSITE UTILITIES PLAN)
- RM-01 (REMOVALS PLAN) RR-01 (ROADWAY REINSTATEMENT PLAN)

# SITE PLAN INFORMATION

RODERICKLAHEY ARCHITECTS INC.

56 Beech Street, Ottawa, Ontario K1S 3J6 TEL.: 613.724.9932

FAX: 613 724 1209 www.rodericklahev.ca

# **SURVEY INFORMATION**

ANNIS, O' SULLIVAN, VOLLEBEKK LTD. ONTARIO LAND SERVEYORS

14 CONCOURSE GATE, SUITE 500

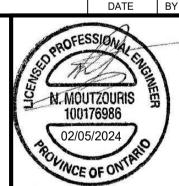
NEPEAN, ON K2E 7S6 T: (613) 727-0850 F: (613) 727-1079

## BENCHMARK

E: Nepean@aovltd.com

ELEVATIONS SHOWN HEREON ARE GEODETIC AND ARE REFERRED TO THE CGVD28 GEODETIC DATUM, DERIVED FROM CITY OF OTTAWA BENCHMARK No. 3465 HAVING AN ELEVATION OF 62.831m

5.	ISSUED FOR ZBA / SPA	FEB 05, 2024	NM
4.	ISSUED FOR ZBA / SPA	NOV 13, 2023	MM
3.	ISSUED FOR 50% CD	OCT 23, 2023	NM
2.	ISSUED FOR 50% CD	SEP 29, 2023	NM
1.	ISSUED FOR ZBA / SPA	JUN 13, 2023	NM
NO	REVISION	DATE	BY



CITY OF OTTAWA

# **EROSION CONTROL PLAN**

RESIDENTIAL USE DEVELOPMENT 300 MONTGOMERY STREET OTTAWA, ONTARIO



100 Dominimacoj rioda j rotomoj omano in ir tri					
DESIGNED BY:EG	DATE: JUNE, 2021	CHECKED BY:			
DRAWN BY: EG	PROJECT No:	APPROVED B			

UD23-002 EC-01 © COPYRIGHT 2024

