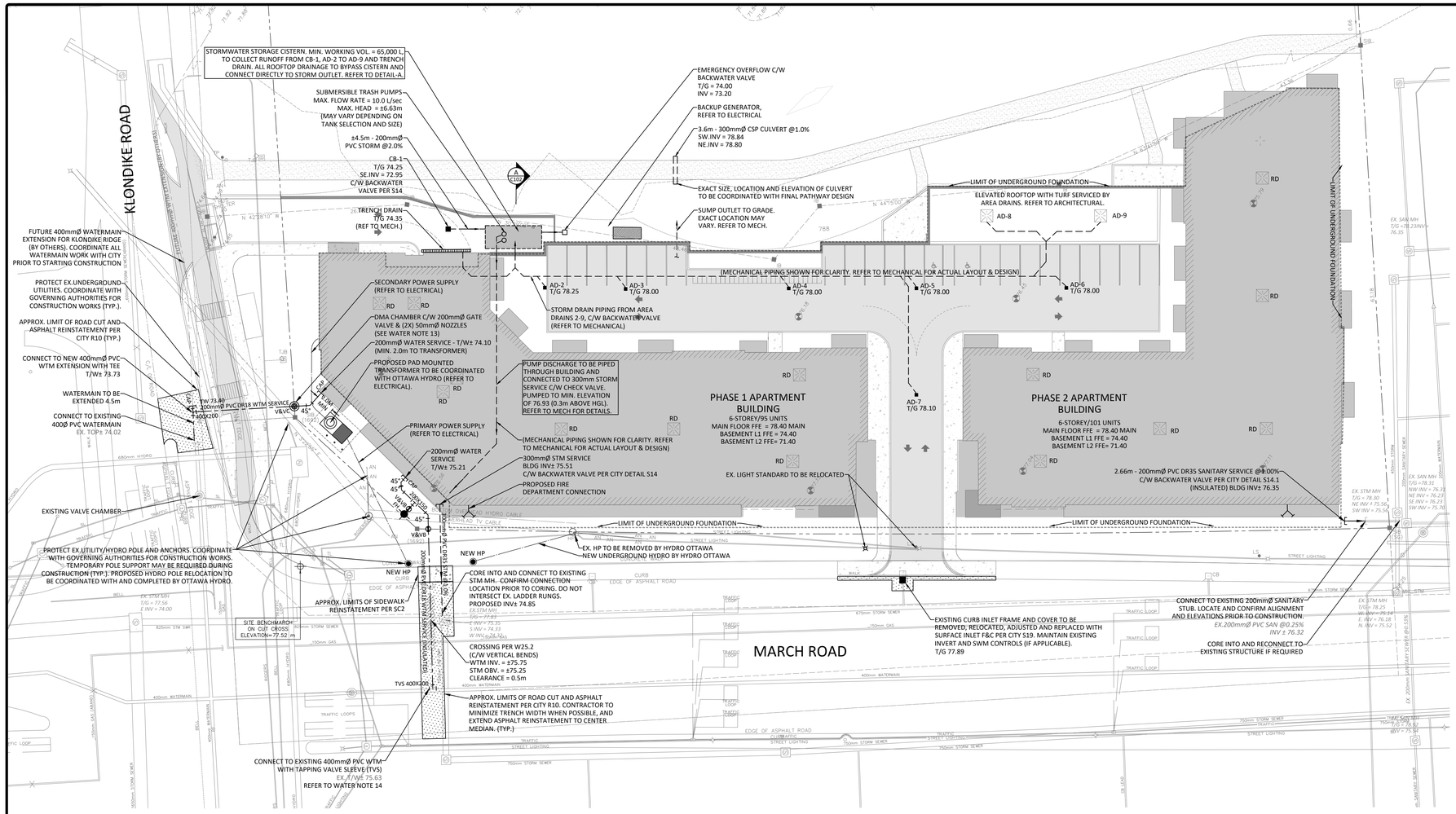
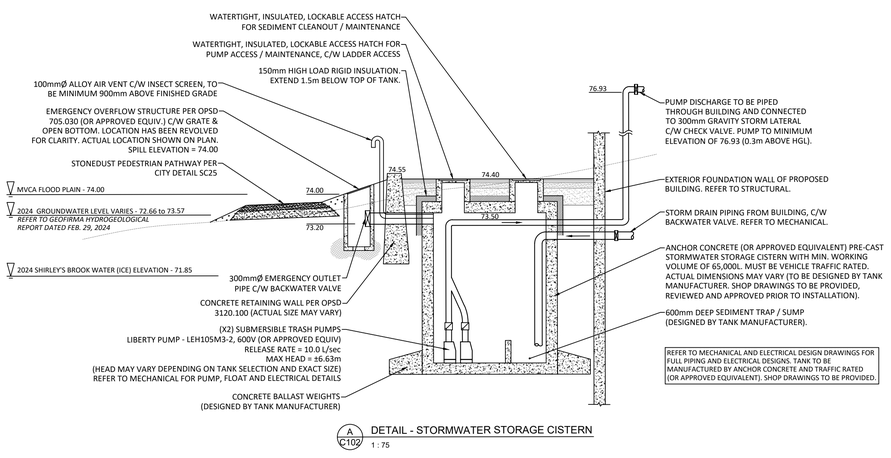




A C102 DETAIL - STORMWATER STORAGE CISTERN
1 : 75

GENERAL NOTES

1. THE ORIGINAL TOPOGRAPHY, GROUND ELEVATION AND SURVEY DATA SHOWN ARE SUPPLIED FOR INFORMATION PURPOSES ONLY, AND IMPLY NO GUARANTEE OF ACCURACY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL INFORMATION SHOWN.
2. THIS PLAN IS NOT A CADASTRAL SURVEY SHOWING LEGAL PROPERTY BOUNDARIES AND EASEMENTS. THE PROPERTY BOUNDARIES SHOWN HEREON HAVE BEEN DERIVED INFORMATION SUPPLIED BY (OR SHOWN ON) J.D. BARNES LMTD. PLAN 4R-24176 AND CANNOT BE RELIED UPON TO BE ACCURATE OR COMPLETE. THE PRECISE LOCATION OF THE CURRENT PROPERTY BOUNDARIES AND EASEMENTS CAN ONLY BE DETERMINED BY AN UP-TO-DATE LAND TITLES SEARCH AND A SUBSEQUENT CADASTRAL SURVEY PERFORMED AND CERTIFIED BY AN ONTARIO LAND SURVEYOR.
3. DO NOT TENDER USING DRAWINGS THAT ARE NOT MARKED "ISSUED FOR TENDER", AND DO NOT CONSTRUCT USING DRAWINGS THAT ARE NOT MARKED "ISSUED FOR CONSTRUCTION".
4. THE CONTRACTOR IS TO OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND APPROVALS FROM THE TOWN BEFORE COMMENCING CONSTRUCTION.
5. THE CONTRACTOR IS RESPONSIBLE FOR ALL LAYOUT FOR CONSTRUCTION. THESE DRAWINGS SHALL NOT BE USED FOR ANY LAYOUT OF STRUCTURAL COMPONENTS AND OTHER UTILITIES INCLUDING, BUT NOT LIMITED TO, FOOTINGS, FOUNDATION WALLS, FOUNDATION DRAINAGE, SHORING, ETC.
6. THE EXACT LOCATION OF ALL NEW SERVICES SHALL BE COORDINATED AND CONFIRMED ON SITE WITH THE ARCHITECTURAL AND STRUCTURAL PLANS. THE LOCATION OF ALL NEW SERVICES SHALL BE COORDINATED WITH THE LOCATION OF EXISTING UTILITIES, SERVICES, BUILDINGS AND ROADS, AS WELL AS THE FINAL BUILDING LAYOUT PRIOR TO INSTALLATION.
7. THE CONTRACTOR IS TO DETERMINE THE EXACT LOCATION, SIZE, MATERIAL AND ELEVATION OF ALL EXISTING UTILITIES PRIOR TO COMMENCING CONSTRUCTION. PROTECT AND ASSUME ALL RESPONSIBILITY FOR EXISTING UTILITIES WHETHER OR NOT SHOWN ON THESE DRAWINGS. IF THERE IS ANY DISCREPANCY THE CONTRACTOR IS TO NOTIFY THE ENGINEER PROMPTLY.
8. RESTORE ALL TRENCHES AND SURFACES OF PUBLIC ROAD ALLOWANCES TO CONDITION EQUAL OR BETTER THAN ORIGINAL CONDITION AND TO THE SATISFACTION OF CITY AUTHORITIES.
9. EXCAVATE AND DISPOSE OF ALL EXCESS EXCAVATED MATERIAL, SUCH AS ASPHALT, CURBING AND DEBRIS, OFF SITE AT THE CONTRACTOR'S EXPENSE.
10. ALL DISTURBED AREAS TO BE RESTORED TO ORIGINAL CONDITION OR BETTER UNLESS OTHERWISE SPECIFIED.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL AND SAFETY MEASURES DURING THE CONSTRUCTION PERIOD, INCLUDING THE SUPPLY, INSTALLATION, AND REMOVAL OF ALL NECESSARY SIGNAGE, DELINEATORS, MARKERS AND BARRIERS, METTING OTM REQUIREMENTS.
12. ALL DIMENSIONS AND INVERTS MUST BE VERIFIED PRIOR TO CONSTRUCTION, IF THERE IS ANY DISCREPANCY THE CONTRACTOR IS TO NOTIFY THE ENGINEER PROMPTLY.
18. ELECTRICAL, GAS, TELEPHONE AND TELEVISION SERVICE UTILITIES ARE SUBJECT TO THE INDIVIDUAL AGENCY AND APPROVED AUTHORITIES. ALL WORK SHALL BE COORDINATED WITH THE RESPECTIVE AGENCY.
19. INSTALLATION TO BE IN ACCORDANCE WITH CURRENT CODES AND STANDARDS OF APPROVAL AGENCIES HYDRO OTTAWA, BELL, ENBRIDGE, ETC. AND THE CITY.
20. CONTRACTOR TO ENSURE ALL APPLICABLE CITY AND OPSS SPECIFICATIONS ARE FOLLOWED DURING CONSTRUCTION.
21. FOR GEOTECHNICAL AND HYDROGEOLOGICAL INFORMATION, REFER TO THE GEOTECHNICAL INVESTIGATION REPORT FOR 788 MARCH ROAD, KANATA PREPARED BY GEOFIRMA ENGINEERING LTD, DATED DECEMBER 21, 2018, AND HYDROGEOLOGICAL STUDY, ESTIMATION OF GROUNDWATER INFLOW TO THE PROPOSED 788 MARCH RPAD DEVELOPMENT, KANATA PREPARED BY GEOFIRMA ENGINEERING LTD, DATED FEBRUARY 29, 2024.
22. CIVIL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH ARCHITECTURAL, STRUCTURAL, LANDSCAPING, ELECTRICAL AND MECHANICAL PLANS.

SEWER NOTES:

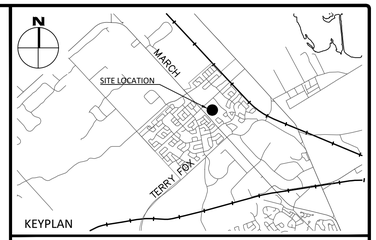
1. CONSTRUCT ALL SEWERS, CATCH BASINS, MANHOLES AND APPURTENANCES IN ACCORDANCE WITH OPSD STANDARDS AND SPECIFICATIONS, AS WELL AS CITY.
2. SEWER TRENCHING AND BEDDING SHALL CONFORM TO OPSD 802.010 AND 802.013 UNLESS NOTED OTHERWISE.
   - 2.1. BEDDING SHALL BE A MINIMUM 150mm OF GRANULAR "A", COMPACTED TO MINIMUM 98% STANDARD PROCTOR DRY DENSITY. CLEAR STONE BEDDING SHALL NOT BE PERMITTED.
   - 2.2. SUB-BEDDING, IF REQUIRED SHALL CONSIST OF 450mm OF COMPACTED GRANULAR "B" TYPE 1.
   - 2.3. BACKFILL TO AT LEAST 300mm ABOVE TOP OF PIPE WITH GRANULAR "A" OR GRANULAR "B" TYPE 1.
   - 2.4. TO MINIMIZE DIFFERENTIAL FROST HEAVING, TRENCH BACKFILL (FROM PAVEMENT SUBGRADE TO 2.0 METRES BELOW FINISHED GRADE) SHALL MATCH EXISTING SOIL CONDITIONS.
3. SANITARY SEWERS AND CONNECTIONS 150mmØ AND SMALLER TO BE PVC SDR-28.
4. SEWERS AND CONNECTIONS 200mmØ AND LARGER TO BE PVC SDR-35. BEDDING TO BE TYPE "B" EXCEPT AT RISERS, UNLESS NOTED OTHERWISE.
5. SEWERS AND WATERMAINS LOCATED PARALLEL TO EACH OTHER SHOULD BE CONSTRUCTED IN SEPARATE TRENCHES, WHEN IT IS IMPOSSIBLE OR NOT PRACTICAL TO MAINTAIN VERTICAL AND/OR HORIZONTAL SEPARATION PER MECP STANDARDS, ALL SEWERS SHOULD BE CONSTRUCTED OF WATERMAIN QUALITY PIPE, PRESSURE TESTED IN PLACE AT A PRESSURE OF 350 kPa (50 psi) WITHOUT LEAKAGE USING THE TESTING METHODOLOGY IN ONTARIO PROVINCIAL STANDARD SPECIFICATION 701 (OPSS 701) OF THE OPS.
6. INSULATE ALL STORM AND SANITARY SEWERS/SERVICES THAT HAVE LESS THAN 2.0m OF COVER WITH THERMAL INSULATION AS PER CITY DETAIL S35, OPTION A.
7. SEWER CONNECTIONS ARE TO BE MADE ABOVE THE SPRINGLINE OF THE SEWERMAIN AS PER CITY OF OTTAWA STANDARD DRAWING S11, S11.1 & S11.2.
8. SUPPLY AND INSTALL ALL PIPING AND APPURTENANCES AS SHOWN AND DETAILED TO WITHIN 1.0m OF BUILDING. ALL ENDS OF SERVICES TO BE PROPERLY CAPPED AND LOCATED WITH 2"x4"X8' LONG MARKER.
9. CONTRACTOR TO TELEVISE (CCTV) ALL PROPOSED SEWERS ON SITE, OUTLET CONNECTION TO THE MAIN AND PIPES 150mmØ OR GREATER PRIOR TO BASE COURSE ASPHALT. UPON COMPLETION OF CONTRACT, THE CONTRACTOR IS RESPONSIBLE TO FLUSH AND CLEAN ALL SEWERS & APPURTENANCES.
10. DYE TESTING IS TO BE COMPLETED ON SANITARY SERVICE TO CONFIRM PROPER CONNECTION TO SANITARY SEWER MAIN.

WATERMAIN NOTES

1. CONSTRUCT ALL WATERMAINS AND APPURTENANCES IN ACCORDANCE WITH OPSD STANDARDS AND SPECIFICATIONS, AS WELL AS CITY STANDARDS.
2. WATERMAINS AND/OR WATER SERVICES ARE TO HAVE A MINIMUM COVER OF 2.4m. INSULATE ALL WATERMAINS AND SERVICES THAT HAVE LESS THAN 2.4m COVER WITH THERMAL INSULATION AS PER CITY DETAIL W22.
3. IF THE WATERMAIN MUST BE DEFLECTED TO MEET ALIGNMENT, ENSURE THAT THE AMOUNT OF DEFLECTION USED IS EQUAL TO OR LESS THAN HALF OF THAT WHICH IS RECOMMENDED BY THE MANUFACTURER.
4. THERMAL INSULATION OF WATERMAINS AT OPEN STRUCTURES AS PER CITY DETAIL W23.
5. VALVES TO BE OPERATED BY CITY STAFF ONLY.
6. NO CONNECTION TO EXISTING WATER NETWORK SHALL BE COMPLETED UNTIL A WATER PERMIT IS OBTAINED FROM THE CITY. CITY TO BE PRESENT FOR WATERMAIN CONNECTION. CONNECTION, EXCAVATION, BACKFILLING AND REINSTATEMENT TO BE COMPLETED BY CONTRACTOR.
7. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PERFORM ANY WATERMAIN CONNECTION(S) IF REQUIRED BY DRINKING WATER SERVICES. THIS SHALL BE COMPLETED IN THE PRESENCE OF A DESIGNATED MUNICIPAL WATER OPERATOR AND THE SELECTED CONTRACTOR SHALL PROVE TO THE SATISFACTION OF THE CITY THAT THEY ARE COMPETENT TO PERFORM THE WORKS PRIOR TO INITIATING CONSTRUCTION.
8. CONCRETE THRUST BLOCKS TO CONFORM TO OPSD 1103.010 AND OPSD 1103.020.
9. ALL WATERMAIN TO BE CLASS 150 DR-18 OR APPROVED EQUIVALENT.
10. ALL WATERMAIN TO BE EQUIPPED WITH TRACER WIRE.
11. AS PER CITY GUIDELINE, THE MINIMUM VERTICAL CLEARANCE BETWEEN WATERMAIN AND SEWER/UTILITY IS 0.25m FOR CROSSING OVER THE SEWER, AS PER CITY DETAIL W25.2 FOR CROSSING UNDER SEWER, THE MINIMUM VERTICAL CLEARANCE IS 0.5m AS PER CITY DETAIL 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.
12. SWABBING, CHLORINATION AND CONTINUITY TESTING FOR PROPOSED WATER SERVICES IS TO FOLLOW CITY OF OTTAWA SPECIAL PROVISIONS #SP-4491 & SP-4494.
13. WATER SERVICES FOR BUILDING TO INCLUDE (1) ONE DISTRICT METERING AREA (DMA) CHAMBER, USING A STANDARD 200mm DIAMETER ISOLATION VALVE AND (2) TWO 50mm DIAMETER STANDARD NOZZLES TAPPED ON EACH SIDE OF THE ISOLATION VALVE. VALVES TO INCLUDE STANDARD CATHODIC PROTECTION IN ACCORDANCE WITH CITY STANDARD SPECIFICATIONS.
14. NO MECHANICAL OR VIBRATION EQUIPMENT IS TO BE USED WITHIN A PROXIMITY OF 3.0m OF THE 400mmØ BACKBONE WATERMAIN ON MARCH ROAD. ALL CONSTRUCTION IS TO BE COORDINATED WITH THE CITY OF OTTAWA DRINKING WATER SERVICES (DWS) AND AUTHORIZED INSPECTORS PRIOR TO EXCAVATION. CONSULT WITH DWS PRE-CONSTRUCTION TO COORDINATE ALL WATERMAIN WORK.
15. NEW PRIVATE HYDRANT AND 150mmØ LEAD PER CITY W19 C/W VALVE & VALVE BOX.

APPROVED
By Kersten Nitsche at 10:04 am, May 12, 2025

KERSTEN NITSCHE, MCIP RPP
MANAGER (A), DEVELOPMENT REVIEW WEST
PLANNING, DEVELOPMENT AND BUILDING SERVICES
DEPARTMENT, CITY OF OTTAWA



KEYPLAN

LEGEND

LEGAL BOUNDARY
EXISTING FENCE
EXISTING STORM SEWER
EXISTING SANITARY SEWER
EXISTING WATERMAIN
EXISTING STORM STRUCTURE
EXISTING CATCHBASIN
EXISTING SANITARY STRUCTURE
EXISTING FIRE HYDRANT
EXISTING VALVE & VALVE BOX
EXISTING HYDRO POLE
EXISTING HYDRO
EXISTING UTILITIES
PROPOSED STORM SEWER — XX.XXm - XXXmmØ STM @ X.XX%
PROPOSED SANITARY SEWER — XX.XXm - XXXmmØ SAN @ X.XX%
PROPOSED WATERMAIN — XX.XXm - XXXmmØ WTR @ X.XX%
PROPOSED CULVERT
PROPOSED STORM MAINTENANCE HOLE
PROPOSED STORM DITCH INLET MAINTENANCE HOLE
PROPOSED SANITARY MAINTENANCE HOLE
PROPOSED WATER VALVE/HYDRANT
PROPOSED FROST PROTECTION PER W22

No.	Revisions	Date
9	REVISED PER APPROVED RMC	APR. 07, 2025
8	REVISED PER UPDATED TRANSFORMER LOCATION	JAN. 30, 2025
7	REISSUED FOR SITE PLAN APPLICATION	NOV. 08, 2024
6	REISSUED FOR SITE PLAN APPLICATION	AUG. 26, 2024
5	REISSUED FOR SITE PLAN APPLICATION	JUN. 05, 2024
4	ISSUED FOR SHORING PERMIT	APR. 26, 2024
3	REISSUED FOR SITE PLAN APPLICATION	MAR. 15, 2024
2	ISSUED FOR SITE PLAN APPLICATION	NOV. 16, 2023
1	ISSUED FOR REVIEW	SEP. 29, 2023

Check and verify all dimensions before proceeding with the work — Do not scale drawings

SCALE 1 : 300
0 5 10 15 20 25 30 Metres

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Client:
SINA
3030 BOUL. LE CARREFOUR, SUITE 1200,
LAVAL, QUÉBEC

Project:
RESIDENTIAL BUILDING
788 MARCH ROAD,
OTTAWA, ON

Drawing Title:
SITE SERVICING PLAN

Scale: 1:300	Project Number: CO-24-1519
Drawn By: RP	
Checked By: JH	Drawing Number: C102
Designed By: RP	

D07-12-24-0045

#19184

FILENAME: U:\Infrastructure\2024\PCO-24-1519 1905353 Canada_Kinata_788 March Road\12 - Drawings\CO-24-1519 - SS.dwg
LAST SAVED: Monday, April 07, 2025 - LAST SAVED BY: rn raper
LAST PLOTTED: Monday, April 07, 2025 [TB TITLE USED] --