

GENERAL NOTES:

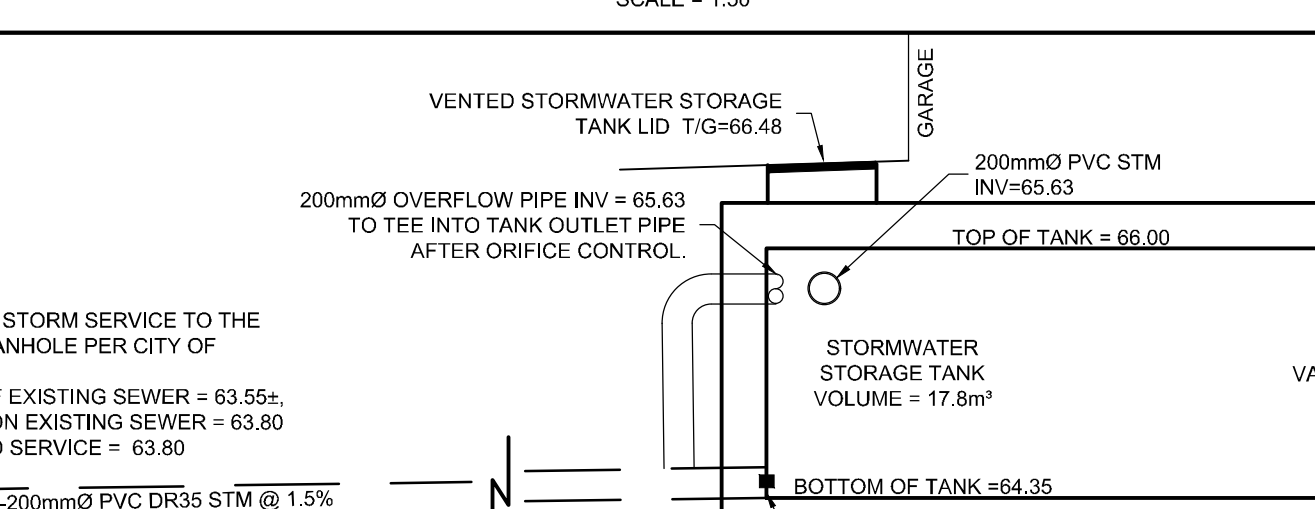
- COORDINATE AND SCHEDULE ALL WORK WITH OTHER TRADES AND CONTRACTORS.
- DETERMINE THE EXACT LOCATION, SIZE, MATERIAL AND ELEVATION OF ALL EXISTING UTILITIES PRIOR TO COMMENCING CONSTRUCTION. PROTECT AND ASSUME RESPONSIBILITY FOR ALL EXISTING UTILITIES WHETHER OR NOT SHOWN ON THIS DRAWING.
- OBTAIN ALL 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 \$2,000,000.00. 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 NO. PG4798-2 DATED AUGUST 2, 2019 PREPARED BY PATERSON GROUP 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 ARCHITECT'S AND LANDSCAPE ARCHITECT'S DRAWINGS FOR BUILDING AND HARD SURFACED AREAS AND DIMENSIONS.
- REFER TO THE 'DEVELOPMENT SERVICING STUDY AND STORMWATER MANAGEMENT REPORT (R-2019-16) DATED MARCH 24, 2020 PREPARED BY NOVATECH.
- SAW CUT AND KEYGRIND ASPHALT AT ALL ROAD CUTS AND ASPHALT TIE-IN POINTS AS PER CITY OF OTTAWA STANDARDS (R10).

STORMWATER STORAGE TANK TABLE

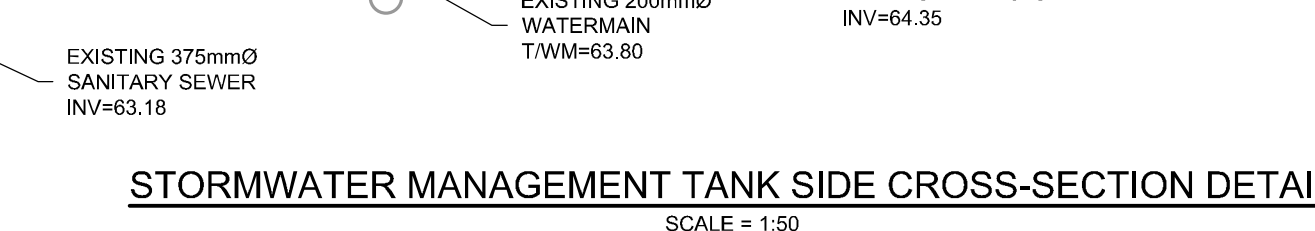
DESIGN EVENT	CONTROLLED FLOW FROM STORAGE TANK	STORAGE TANK VOLUME REQUIRED	STORAGE TANK VOLUME PROVIDED
1.5 YR	1.2 L/s	5.5 m³	17.8 m³
1:100 YR	1.9 L/s	13.8 m³	17.8 m³

- NOTES:**
- ALL DRAINAGE FROM AREA A-2 (PROPOSED REARYARD TERRACE AND ROOF DECK PATIOS) TO BE DIRECTED TO THE INTERNAL STORMWATER STORAGE TANK. REFER TO MECHANICAL PLANS FOR DETAILS.
 - REFER TO STRUCTURAL PLANS FOR EXACT SIZE AND DETAILS OF INTERNAL STORMWATER STORAGE TANK.
 - REFER TO ARCHITECTURAL AND MECHANICAL PLANS FOR LOCATION AND CONNECTIONS TO INTERNAL STORMWATER STORAGE TANK.

STORMWATER MANAGEMENT TANK FRONT CROSS-SECTION DETAIL



STORMWATER MANAGEMENT TANK SIDE CROSS-SECTION DETAIL



ROOF DRAIN TABLE: AREA R-1 (ROOF DRAINS 1-4)

AREA ID	ROOF DRAIN NO. (WATTS MODEL)**	ROOF DRAIN OPENING SETTING	1.5 YEAR RELEASE RATE	APPROX. 5 YR PONDING DEPTH	1:100 YEAR RELEASE RATE	APPROX. 100 YR PONDING DEPTH
A-2	RD 1 (RD-100-A-ADJ)	1/2 OPEN	2.5 L/s	5 cm	3.8 L/s	10 cm

* REFER TO THE POST-DEVELOPMENT DRAINAGE AREA PLAN (FIGURE A5) IN THE NOVATECH SERVICING AND STORMWATER MANAGEMENT REPORT FOR DRAINAGE AREA IDENTIFIERS AND STORMWATER MANAGEMENT DETAILS.
 ** ALL CONTROLLED FLOW ROOF DRAINS FOR THE PROPOSED BUILDING TO BE WATTS ADJUSTABLE ACCUTROL ROOF DRAINS.

INLET CONTROL DEVICE DATA - STM TANK

DESIGN EVENT	ICD TYPE (IPEX MODEL #)	DIAMETER OF OUTLET PIPE	DESIGN FLOW	DESIGN HEAD	WATER ELEVATION
1.5 YR	TEMPEST VORTEX LMF 45	200mm Ø	1.2 L/s	0.41m	64.86m
1:100 YR	TEMPEST VORTEX LMF 45	200mm Ø	1.9 L/s	1.18m	65.63m

THE DESIGN HEAD IS BASED ON THE WATER ELEVATION TO THE CENTER OF THE ORIFICE AT THE CENTER OF THE PIPE.

150mmØ WATERMAIN TABLE

STATION	SURFACE ELEVATION	TMM ELEVATION	COMMENTS
1+00.0	66.30	63.95	CONNECTION TO EX 200mmØ WM
1+06.1	66.50	64.00	VALVE AND VALVEBOX AND CAP AT PROPERTY LINE

* 150mmØ CONNECTION TO EXISTING 200mmØ WATERMAIN. EXACT ELEVATION TO BE FIELD DETERMINED. PROVIDE THERMAL INSULATION AS PER CITY OF OTTAWA DETAIL W23 AND DETAIL W22 WHERE COVER IS LESS THAN 2.4m AND/OR ADJACENT TO OPEN STRUCTURES.

NOTE:
 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.

No.	REVISION	DATE	BY
7.	ISSUED FOR DAR APPROVAL	AUG 18/20	CJR
6.	ISSUED FOR BUILDING PERMIT	MAY 22/20	CJR
5.	ISSUED FOR FINAL APPROVAL	MAY 14/20	CJR
4.	REVISED PER CITY COMMENTS	APRIL 15/20	CJR
3.	REVISED PER CITY COMMENTS	MAR 24/20	CJR
2.	REVISED PER CITY COMMENTS	JAN 28/20	CJR
1.	ISSUED FOR SITE PLAN APPLICATION	JULY 3/19	CJR

SAIDE SAYAH
 MANAGER, CENTRAL BRANCH
 PLANNING, INFRASTRUCTURE & ECONOMIC DEVELOPMENT DEPARTMENT, CITY OF OTTAWA

APPROVED
 By Saide Sayah at 12:04 am, Sep 09, 2020

SCALE
 1:100

0 1 2 3 4

FOR REVIEW ONLY

DESIGN: MJH
 CHECKED: CJR
 DRAWN: MJH
 CHECKED: CJR
 APPROVED: JLS

PROFESSIONAL ENGINEER
 C.J. RUDDLE
 AUG 18/20
 PROVINCE OF ONTARIO

NOVATECH
 Engineers, Planners & Landscape Architects
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 Ottawa, Ontario, Canada K2M 1P6
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 Facsimile: (613) 254-5867
 Website: www.novatech-eng.com

LOCATION
 CITY OF OTTAWA
 24-30 PRETORIA AVENUE

DRAWING NAME
 GENERAL PLAN OF SERVICES

PROJECT No.
 119011

REV
 REV #7

DRAWING No.
 119011-GP