

SERVICING PROFILE - MAIN STREET

1:100

PROPOSED BUILDING 2A - ROOF DRAIN TABLE								
AREA ID	ZURN SPECIFICATION	NOTCHES	POST DEVELOPMENT ZURN ROOF DRAIN CONTROL PARAMETERS					
			1.5 - YEAR EVENT			1:100 - YEAR EVENT		
			HEAD(m)	Q(l/s)	VOL(m³)	HEAD(m)	Q(l/s)	VOL(m³)
TOP ROOF	AS REQUIRED	-	-	-	-	-	-	-
REMAINDER OF ROOF		-	-	-	-	-	-	-
TOTAL								

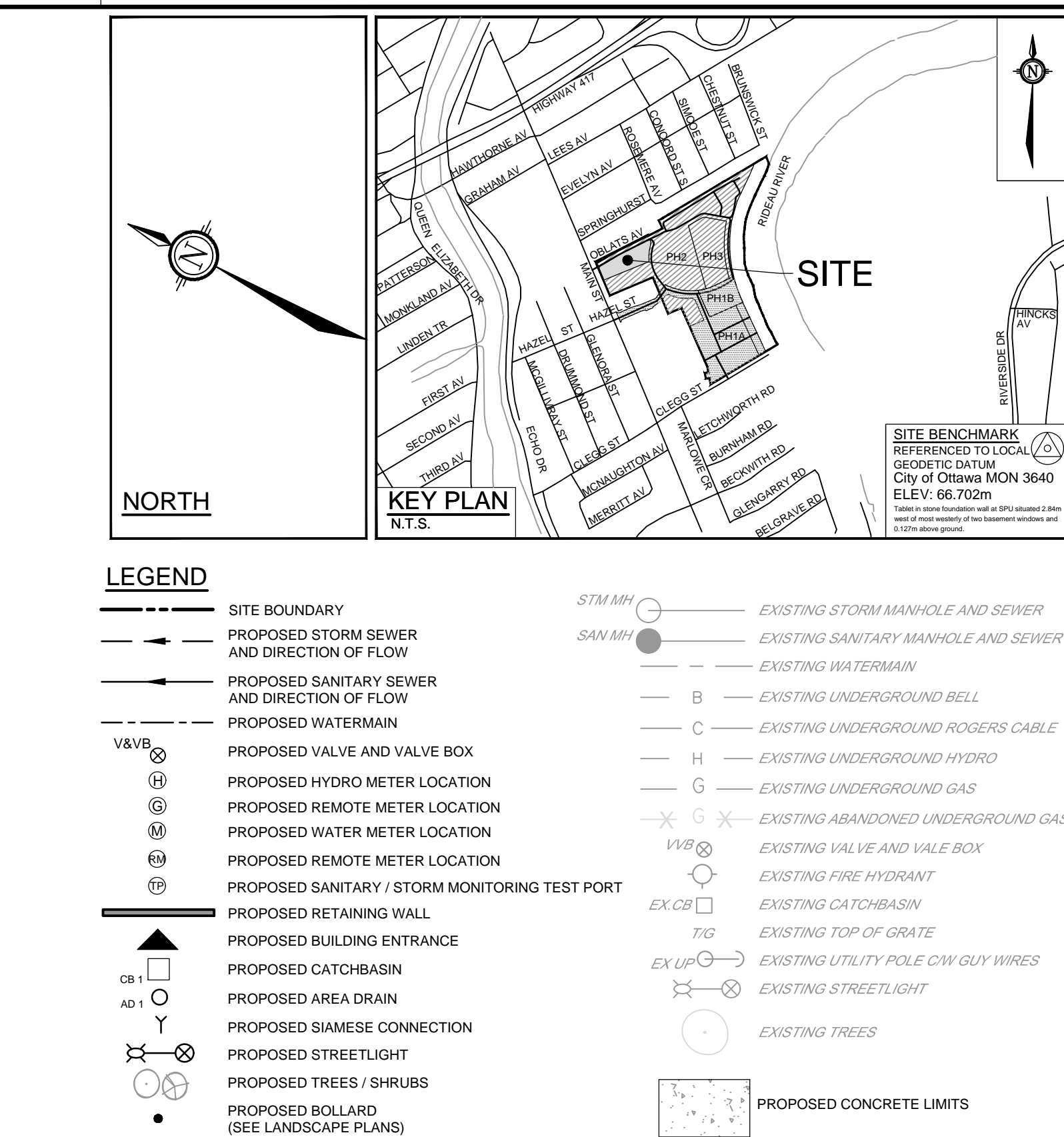
ROOF AREA TOP ROOF WILL HAVE CONTROLLED ROOF DRAINS. REMAINDER OF ROOF TO HAVE UNCONTROLLED ROOF DRAINS AND WILL DIRECT CONTROLLED / UNCONTROLLED RUNOFF TO THE TANK VIA THE BUILDINGS INTERNAL PIPES BEFORE OUTLETTING TO THE STREET AT 55.05% A/H.

PROPOSED BUILDING 2B - ROOF DRAIN TABLE								
AREA ID	ZURN SPECIFICATION	NOTCHES	POST DEVELOPMENT ZURN ROOF DRAIN CONTROL PARAMETERS					
			1.5 - YEAR EVENT			1:100 - YEAR EVENT		
			HEAD(m)	Q(l/s)	VOL(m³)	HEAD(m)	Q(l/s)	VOL(m³)
TOP ROOF	AS REQUIRED	N/A	-	-	-	-	-	-
REMAINDER OF ROOF	N/A	-	-	-	-	-	-	-
TOTAL			-	-	-	-	-	-

ROOF AREA TOP ROOF WILL HAVE CONTROLLED ROOF DRAINS. REMAINDER OF ROOF TO HAVE UNCONTROLLED ROOF DRAINS AND WILL DIRECT CONTROLLED / UNCONTROLLED RUNOFF TO THE TANK VIA THE BUILDINGS INTERNAL PIPES BEFORE OUTLETTING TO THE STREET AT 80%.

WATERMAIN TABLE - DES OBLATS AVE (MIN COVER = 2.4m)			
STATION	SURFACE ELEVATION	TOP OF WM ELEVATION	DESCRIPTION
0+000	64.99	62.58	CONNECT TO EXISTING 250mm WATERMAIN
0+052	65.14	62.74	WATER VALVE AT PROPERTY LINE
0+062	65.16	62.76	CAP

WATERMAIN TABLE - MAIN STREET (MIN COVER = 2.4m)			
STATION	SURFACE ELEVATION	TOP OF WM ELEVATION	DESCRIPTION
0+000	64.56	62.16	CONNECT TO EXISTING 400mm WATERMAIN
0+050	64.62	62.22	WATER VALVE AT PROPERTY LINE
0+117	64.55	62.45	WATER VALVE AT PROPERTY LINE
0+127	64.57	62.47	CAP



- 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 THE CITY OF OTTAWA AND ENGINEER.
 - 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 ARCHITECTS AND LANDSCAPE ARCHITECT'S DRAWINGS FOR BUILDING AND HARDSURFACE AREAS AND DIMENSIONS.
 - REFER TO SERVICING DESIGN BRIEF PREPARED BY NOVATECH ENGINEERING CONSULTANTS LTD.
 - SAW CUT AND KEY GRIND 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 GRADING PLAN INDICATING THE AS-BUILT ELEVATION OF EVERY DESIGN GRADE SHOWN ON THIS PLAN.
 - REFER TO GEOTECHNICAL REPORT (NO. 1668819, DATED JUNE 2017) PREPARED BY GOLDER ASSOCIATES 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.
 - ALL MATERIALS AND CONSTRUCTION METHODS SHALL BE IN ACCORDANCE WITH THE CITY OF OTTAWA STANDARDS AND SPECIFICATIONS AND ONTARIO PROVINCIAL STANDARDS AND SPECIFICATIONS. ONTARIO PROVINCIAL STANDARDS AND SPECIFICATIONS WILL APPLY WHERE NO CITY STANDARDS ARE AVAILABLE.
 - ALL PRIVATE APPROACHES MUST BE CONSTRUCTED AS PER CITY SPECIFICATION S013.

- SEWER NOTES:**
- SPECIFICATIONS:
ITEM: SEWER SERVICE CONNECTION - RIGID PIPE, SEWER SERVICE ABANDONMENT, SEWER TRENCH - BEDDING (GRANULAR A), COVER (GRANULAR A OR GRANULAR B TYPE I, WITH MAXIMUM PARTICLE SIZE=25mm)
SPEC. No.: S11.4, S6.57, W17
REFERENCE: CITY OF OTTAWA, CITY OF OTTAWA / OPSD, CITY OF OTTAWA / OPSD
 - INSULATE ALL PIPES (SAN/STM) THAT HAVE LESS THAN 1.5m COVER WITH 50mmx1200mm HI-40 INSULATION. PROVIDE 150mm CLEARANCE BETWEEN PIPE AND INSULATION.
 - SERVICES ARE TO BE CONSTRUCTED TO 1.0m FROM FACE OF BUILDING AT A MINIMUM SLOPE OF 1.0%.
 - PIPE BEDDING, COVER AND BACKFILL ARE TO BE COMPACTED TO AT LEAST 95% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY. THE USE OF CLEAR CRUSHED STONE AS A BEDDING LAYER SHALL NOT BE PERMITTED.
 - FLEXIBLE CONNECTIONS ARE REQUIRED FOR CONNECTING PIPES TO MANHOLES (FOR EXAMPLE KOR-N SEAL, PSX: POSITIVE SEAL AND DURASEAL). THE CONCRETE CRADLE FOR THE PIPE CAN BE ELIMINATED.
 - THE OWNER SHALL REQUIRE THAT THE SITE SERVICING CONTRACTOR PERFORM FIELD TESTS FOR QUALITY CONTROL OF ALL SANITARY SEWERS. LEAKAGE TESTING SHALL BE COMPLETED IN ACCORDANCE WITH OPSD 410.07.16, 410.07.16.04 AND 410.07.24. DYE TESTING IS TO BE COMPLETED ON ALL SANITARY SERVICES TO CONFIRM PROPER CONNECTION TO THE SANITARY SEWER MAIN. THE FIELD TESTS SHALL BE PERFORMED IN THE PRESENCE OF A CERTIFIED PROFESSIONAL ENGINEER WHO SHALL SUBMIT A CERTIFIED COPY OF THE TEST RESULTS.
 - FULL PORT BACKWATER VALVES ARE REQUIRED ON THE SANITARY SERVICES. INSTALLED AS PER THE MANUFACTURERS RECOMMENDATIONS AND A BACKWATER VALVE IS REQUIRED ON THE STORM SERVICES / FOUNDATION DRAINS FOR EACH BUILDING. INSTALLED AS PER STD. DWG S14.
 - CONTRACTOR TO TELETYPE (CCTV) ALL PROPOSED SEWERS/LATERALS.
 - REINSTATE ALL EXISTING PAVEMENT, CURB AND BOULEVARDS AS PER CITY OF OTTAWA R10.
 - ALL EXISTING SANITARY AND STORM SERVICES ARE TO BE CAPPED AT THE PROPERTY LINE TO THE SATISFACTION OF THE CITY OF OTTAWA'S SEWER OPERATION.
 - MONITORING TEST PORTS FOR BUILDING SERVICES TO BE INSTALLED IN PARKING GARAGE.

- WATERMAIN NOTES:**
- SPECIFICATIONS:
ITEM: WATERMAIN TRENCHING, THERMAL INSULATION IN SHALLOW TRENCHES, VALVE BOX ASSEMBLY, CONNECTION DETAIL FROM EXISTING NEW WM, WATERMAIN CROSSING BELOW SEWER, WATERMAIN CROSSING OVER SEWER, WATERMAIN (500mm), TYPE K COPPER, THERMAL INSULATED AT OPEN STRUCTURE, WATER SERVICE INSTALLATION AT SEWER
SPEC. No.: W17, W22, W24, W25.1, W25.2, W25.3, W25.4, W25.5, W25.6, W25.7, W25.8
REFERENCE: CITY OF OTTAWA, CITY OF OTTAWA, CITY OF OTTAWA, CITY OF OTTAWA, CITY OF OTTAWA, CITY OF OTTAWA, CITY OF OTTAWA, CITY OF OTTAWA
 - SUPPLY AND CONSTRUCT ALL WATERMANS AND APPURTENANCES IN ACCORDANCE WITH THE CITY OF OTTAWA STANDARDS AND SPECIFICATIONS. EXCAVATION, INSTALLATION, BACKFILL AND RESTORATION OF ALL WATERMANS BY THE CONTRACTOR. CONNECTIONS AND SHUT-OFFS AT THE MAIN AND CHLORINATION OF THE WATER SYSTEM SHALL BE PERFORMED BY CITY OFFICIALS.
 - WATERMAIN SHALL BE MINIMUM 2.4m DEPTH BELOW GRADE UNLESS OTHERWISE INDICATED. OTHERWISE THERMAL INSULATION IS REQUIRED AS PER STD. DWG W22.
 - PROVIDE MINIMUM 0.50m CLEARANCE BETWEEN OUTSIDE OF PIPES AT ALL CROSSINGS WHEN WATERMAIN IS BELOW AND MINIMUM 0.25m CLEARANCE WHEN WATERMAIN IS ABOVE.
 - WATER SERVICE IS TO BE CONSTRUCTED TO WITHIN 1m OF FOUNDATION WALL AND CAPPED, UNLESS OTHERWISE INDICATED.
 - WATER DEMAND = A.D.D. + T.B.D. L/sec. M.D.D. + T.B.D. L/sec. M.H.D. + T.B.D. L/sec.
 - ALL EXISTING WATER SERVICES TO BE BLANKED AT MAIN BY CITY FORCES. EXCAVATION AND REINSTATEMENT BY CONTRACTOR.
 - WATERMANS TO BE INTERCONNECTED FOR REDUNDANCY.

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.

PRELIMINARY
NOT FOR
CONSTRUCTION

6. REVISED AS PER CITY COMMENTS	MAY 16/19	JAG	SCALE	1:300	DESIGN	JAG	FOR REVIEW ONLY	LOCATION	CITY OF OTTAWA Greystone Village Buildings 2A-2B	PROJECT No.	114025-00
5. REVISED AS PER CITY COMMENTS	MAR 21/19	JAG	1:300	CHECKED	MSP			DRAWING NAME	GENERAL PLAN OF SERVICES	REV	REV # 6
4. REVISED PER CITY COMMENTS	DEC 7/18	JAG	0 3 6 9 12	DRAWN	MTM					DRAWING No.	114025-GP(2A/2B)
3. ISSUED FOR COORDINATION	NOV 30/18	JAG		CHECKED	JAG						
2. REVISED PER CITY COMMENTS	OCT 9/18	JAG		APPROVED	JGR						
1. ISSUED WITH SITE PLAN APPLICATION	MARCH 9/18	JAG									
No.	REVISION	DATE	BY								

NOVATECH

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114025-GP(2A/2B)