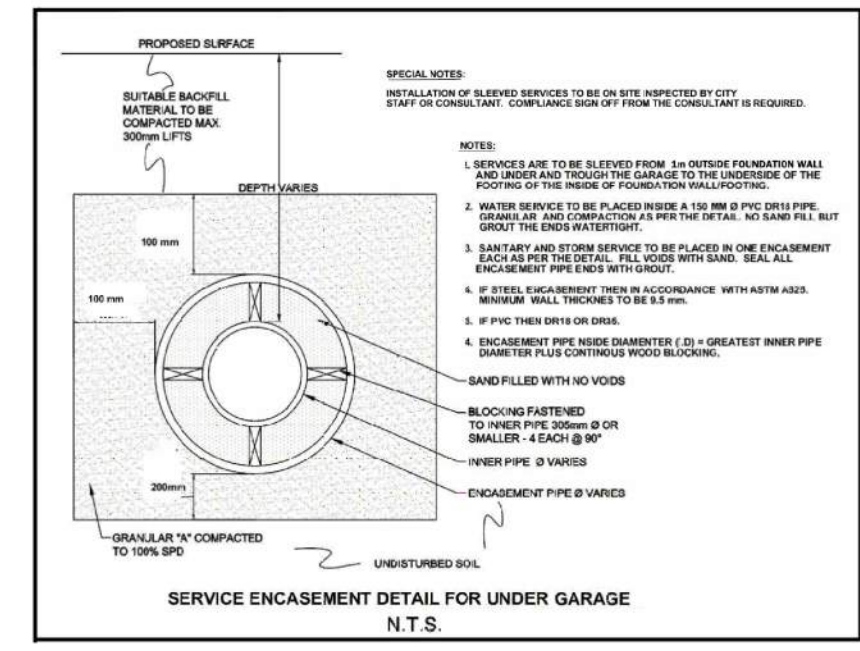
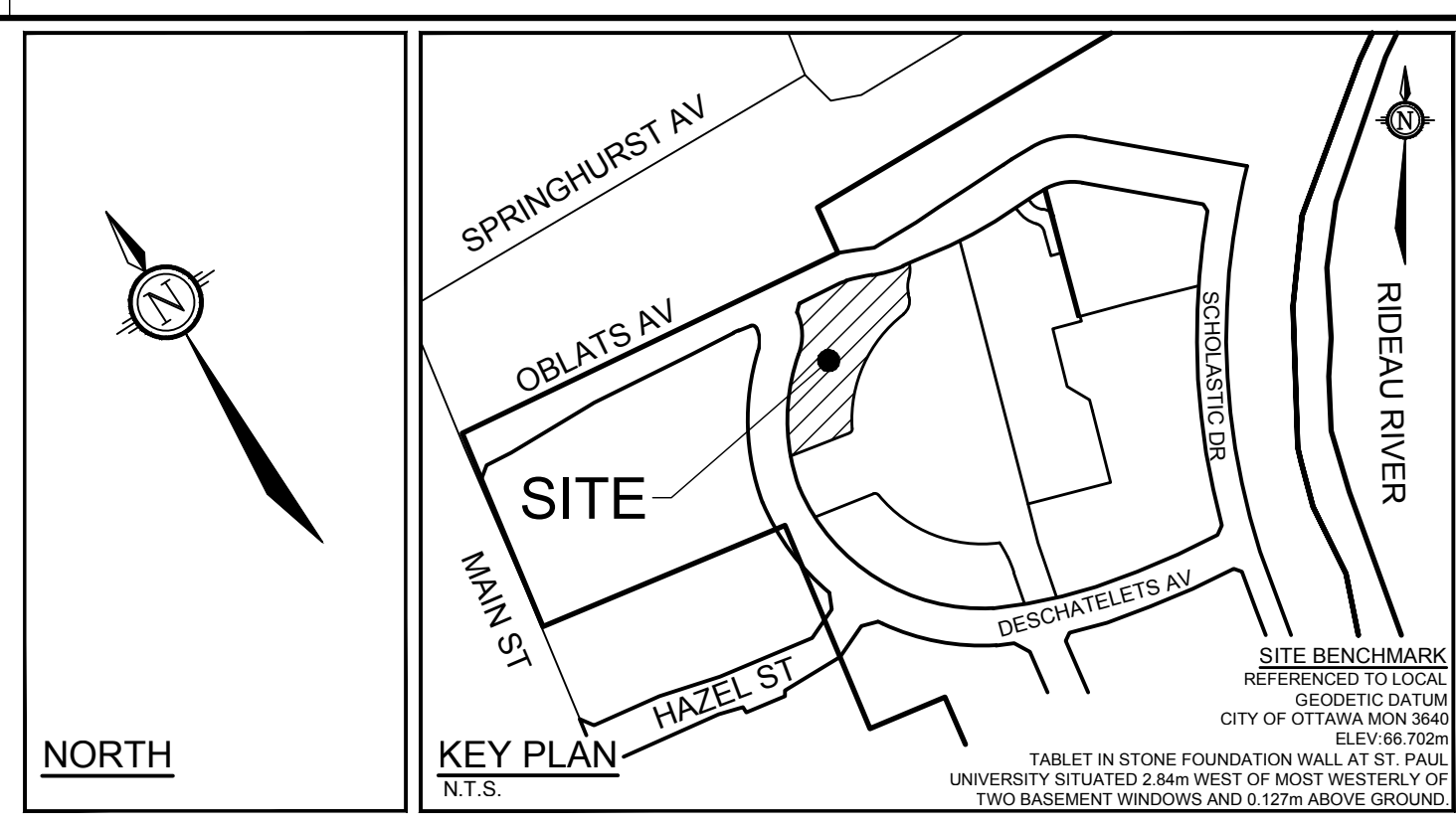


CRITICAL PIPE CROSSING TABLE			PROPOSED SEPARATION
①	250mmØ WM OBV=62.26	250mmØ STM INV=62.76	WM-STM=0.50m
②	250mmØ SAN OBV=61.96	250mmØ STM INV=62.72	SAN-STM=0.78
③	250mmØ WM OBV=62.30	250mmØ SAN INV=62.80	WM-SAN=0.50m
④	250mmØ SAN OBV=61.85	450mmØ STM INV=62.06	SAN-STM=0.21m
⑤	250mmØ SAN OBV=61.66	525mmØ STM INV=61.90	SAN-STM=0.24m



SERVICE LATERALS (TO BUILDING FACE)						
UNIT #	SANITARY SERVICE		STORM SERVICE		WATER SERVICE	
	LENGTH (m)	INVERT	LENGTH (m)	INVERT	LENGTH (m)	TOP W/M
T1-1	5.9	63.45	4.4	63.45	8.2	63.05
T1-2	4.6	63.45	3.1	63.45	6.4	63.05
T2-3	3.2	63.85	4.7	63.85	1.4	63.45
T2-4	3.6	63.85	-	-	5.6	63.45
T3-5	4.6	63.70	6.4	63.70	2.3	63.30
T3-6	4.6	63.70	-	-	6.6	63.30
T4-7	5.5	64.00	-	-	3.5	63.60
T4-8	4.2	64.00	2.7	64.00	5.8	63.60
T5-9	4.7	63.85	-	-	2.7	63.45
T5-10	5.5	63.85	4.0	63.85	7.6	63.45
T6-11	3.0	63.70	4.5	63.70	1.2	63.30
T6-12	6.5	63.70	-	-	4.6	63.30
T6-13	8.2	63.70	-	-	6.0	63.30
T6-14	7.8	63.70	9.3	63.70	5.4	63.30

- Services are to be constructed as per S11.3.
- ### LEGEND
- SITE BOUNDARY
 - PROPOSED CURB
 - PROPOSED SANITARY MANHOLE & SEWER
 - PROPOSED STORM MANHOLE & SEWER
 - PROPOSED WATERMAIN
 - PROPOSED CATCHBASIN AND LEAD
 - PROPOSED CATCHBASIN FLOWLINE
 - PROPOSED DIRECTION OF MANHOLE
 - PROPOSED VALVE & VALVE BOX LOCATION
 - PROPOSED STAND POST LOCATION
 - PROPOSED SERVICE LOCATION
 - SAN - 135mmØ PVC DR28 @ 2.0% (1.0% MIN)
 - STM - 100mmØ PVC DR28 @ 2.0% (1.0% MIN)
 - WATER - 19mmØ PEX
 - PROPOSED SERVICE LOCATION CW SLEEVE
 - SAN - 135mmØ PVC DR28 @ 2.0% (1.0% MIN)
 - STM - 100mmØ PVC DR28 @ 2.0% (1.0% MIN)
 - WATER - 19mmØ PEX
 - PROPOSED SERVICE LOCATION CW SLEEVE
 - SAN - 135mmØ PVC DR28 @ 2.0% (1.0% MIN)
 - WATER - 19mmØ PEX
 - EXISTING SANITARY MANHOLE & SEWER
 - EXISTING STORM MANHOLE AND SEWER
 - EXISTING WATERMAIN
 - EXISTING VALVE AND VALE BOX
 - EXISTING FIRE HYDRANT CW LEAD
 - EXISTING CATCHBASIN
 - PROPOSED ROAD CUT LIMITS
 - PROPOSED INSULATION FOR SHALLOW SEWERS AS PER S35
 - LAND TO BE TRANSFERRED TO THE CITY



SOURCE REFERENCE:
 PLAN OF SUBDIVISION OF PART OF LOT "H" CONCESSION "D" (RIDEAU FRONT), PREPARED BY ANNIS, O-SULLIVAN, VOLLEBECK LTD. ON DECEMBER 15, 2017. (PLAN 4M-1595)
TOPOGRAPHIC INFORMATION:
 HORIZONTAL DATUM: NAD 83 (ORIGINAL), MTM - ZONE 9
 VERTICAL DATUM: CGVD2878
 1. DRAFT PLAN OF SUBDIVISION OF PART OF LOT "H" CONCESSION "D" (RIDEAU FRONT), PREPARED BY ANNIS, O-SULLIVAN, VOLLEBECK LTD (2015)
 2. NOVATECH TOPOGRAPHIC SURVEY, APRIL 2024

- ### GENERAL NOTES:
- DIMENSIONS AND LAYOUT INFORMATION SHALL BE CONFIRMED PRIOR TO START OF CONSTRUCTION.
 - THE ORIGINAL TOPOGRAPHY AND GROUND ELEVATIONS, SERVICING AND SURVEY INFORMATION SHOWN ON THIS PLAN ARE SUPPLIED FOR INFORMATION PURPOSES ONLY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE ACCURACY OF ALL INFORMATION OBTAINED FROM THIS PLAN. AS-BUILT INFORMATION MUST INCLUDE SERVICING THE CONTRACTOR SHALL VERIFY THE ELEVATIONS OF THE EXISTING SEWERS, WATERMANS AND UTILITIES IN THE OBLATS AVENUE AND DESCHÂTELETS AVENUE. RIGHT OF WAY.
 - CO-ORDINATE AND SCHEDULE ALL WORK WITH OTHER TRADES AND CONTRACTORS.
 - BEFORE COMMENCING CONSTRUCTION, PROVIDE PROOF OF COMPREHENSIVE ALL RISK AND OPERATIONAL LIABILITY INSURANCE. INSURANCE POLICY TO NAME THE OWNER, ENGINEER AND THE CITY AS CO-INSURED.
 - CONNECT TO EXISTING SYSTEMS AS DETAILED, INCLUDING ALL RESTORATION WORK NECESSARY TO REINSTATE SURFACES TO EXISTING CONDITIONS OR BETTER.
 - 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 THESE DRAWINGS.
 - OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND APPROVALS BEFORE COMMENCING CONSTRUCTION.
 - RESTORE ALL TRENCHES AND SURFACE FEATURES TO EXISTING CONDITIONS OR BETTER AND TO THE SATISFACTION OF MUNICIPAL AUTHORITIES.
 - REMOVE FROM SITE ALL DEBRIS AND EXCESS EXCAVATED MATERIAL, UNLESS OTHERWISE INSTRUCTED BY THE ENGINEER.
 - ALL ELEVATIONS ARE GEODETIC AND UTILIZE METRIC UNITS.
 - REFER TO STRUCTURAL PLANS FOR UNDERSIDE OF FOOTING AND TOP OF FOUNDATION INFORMATION.
 - REFER TO GEOTECHNICAL INVESTIGATION PG6948-1 (DATED FEBRUARY 1, 2024), PREPARED BY PATERSON GROUP
 - CONTRACTOR TO PROVIDE THE CONSULTANT WITH A MARKED UP COPY OF THE GENERAL PLAN OF SERVICES INDICATING ALL SERVICE AS-BUILT INFORMATION SHOWN ON THIS PLAN. AS-BUILT INFORMATION MUST INCLUDE PIPE MATERIAL, SIZES, LENGTHS, SLOPES, INVERT AND T/G ELEVATIONS, STRUCTURE LOCATIONS, VALVE AND HYDRANT LOCATIONS, TWM ELEVATIONS AND ANY ALIGNMENT CHANGES, ETC.
 - ALL WORK TO BE CONSTRUCTED TO CITY OF OTTAWA AND ONTARIO PROVINCIAL STANDARDS.
 - ALL UNITS ARE PROPOSED TO BE SLAB ON GRADE (I.E. NO BASEMENTS).

- ### SEWER NOTES:
- SPECIFICATIONS:

ITEM	SPEC. No.	REFERENCE
CATCHBASIN (600x600mm)	705.010	OPSS
STORM / SANITARY MAINTENANCE HOLE (12000)	701.010	OPSS
STORM / SANITARY MH FRAME & COVER	S24.1 / S24.8 & S25	CITY OF OTTAWA
STORM SEWER	PVC SDR 35	CITY OF OTTAWA
SANITARY SEWER	PVC SDR 35	CITY OF OTTAWA
CATCHBASIN LEAD	PVC SDR 35	CITY OF OTTAWA
SEWER TRENCH	S6	CITY OF OTTAWA
SANITARY AND STORM SERVICES	PVC SDR28 (S11.3)	CITY OF OTTAWA
OBHM FRAME & COVER	S25 & S28.1	CITY OF OTTAWA
CB FRAME & COVER	S19	CITY OF OTTAWA
 - ALL CATCHBASIN AND CATCHBASIN MAINTENANCE LEADS ARE TO BE 200mm DIA. PVC SDR 35 AT 2% SLOPE UNLESS OTHERWISE SPECIFIED ON THE DRAWINGS.
 - INSULATE ALL PIPES (SAN/STM) THAT HAVE LESS THAN 2.0m COVER AS PER THE INSULATION DETAIL FOR SHALLOW SEWERS AS PER DETAIL S35.
 - SERVICES ARE TO BE CONSTRUCTED TO 1.0m FROM BUILDING FACE AT 2.0% SLOPE (1.0% MINIMUM). SERVICES TO BE CONNECTED TO MAINLINE SEWER AS PER CITY OF OTTAWA S11.1.
 - PIPE BEDDING AND COVER ARE TO BE COMPACTED TO AT LEAST 98% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY. THE COVER MATERIAL SHALL CONSIST OF OPSS GRANULAR "A" AND SHOULD EXTEND FROM THE SPRING LINE OF THE PIPE TO AT LEAST 300mm ABOVE THE OVERTOP OF THE PIPE.
 - SANITARY PIPE TO BE IPEX SDR 35 OR EQUIVALENT WITH JOINT PRESSURE RATING OF 345kPA MINIMUM. WHERE PRIVATE SANITARY SEWER DOES NOT HAVE 2.5m CLEARANCE TO THE WATERMAIN, THE CONTRACTOR SHALL COMPLETE PRESSURE TESTING OF THE SANITARY SEWER TO CONFIRM THE 345kPa (min.) PRESSURE RATING OF THE SANITARY PIPE. TESTING TO BE COMPLETED PRIOR TO SANITARY LATERAL INSTALLATIONS.
 - THE SITE SERVICING CONTRACTOR SHALL PERFORM FIELD TESTS FOR QUALITY CONTROL OF ALL SANITARY SEWERS. LEAKAGE TESTING SHALL BE COMPLETED IN ACCORDANCE WITH OPSS 410.07.16 AND 407.07.24. DYE TESTING IS TO BE COMPLETED ON ALL SANITARY AND STORM SERVICES TO CONFIRM PROPER CONNECTION TO THE SEWER MAINS. THE FIELD TESTS SHALL BE PERFORMED IN THE PRESENCE OF THE ENGINEER.
 - STORM MAINTENANCE HOLES SHALL HAVE 300mm SLUMPS AND CATCHBASIN MAINTENANCE HOLES SHALL HAVE 600mm SLUMPS UNLESS OTHERWISE INDICATED.
 - CONTRACTOR TO TELEVIEW (CCTV) ALL PROPOSED SEWERS, 200mmØ OR GREATER PRIOR TO BASE COURSE ASPHALT. UPON COMPLETION OF CONTRACT, THE CONTRACTOR IS RESPONSIBLE TO FLUSH AND CLEAN ALL SEWERS & APPURTENANCES.
 - CONTRACTOR SHALL OBTAIN A VIDEO INSPECTION OF THE CITY SEWER SYSTEM WITHIN OBLATS AVENUE AND DESCHÂTELETS AVENUE. RIGHT OF WAY UPON COMPLETION OF CONSTRUCTION TO DETERMINE IF THE CITY SEWER SYSTEM SUSTAINED ANY DAMAGES AS A RESULT OF CONSTRUCTION ON THE LANDS.

SAN MANHOLE TABLE			
MANHOLE ID	SIZE (mm)	T/G ELEV (m)	INVERT (m)
401	1200mmØ	65.26	NW=63.10
403	1200mmØ	64.96	SE=62.89 N=62.84
405	1200mmØ	65.49	NW=62.78
409 ¹	1200mmØ	65.21	SE=62.44 W=61.73
407	1200mmØ	65.41	W=62.70
411 ¹	1200mmØ	65.23	E=62.27 W=61.55

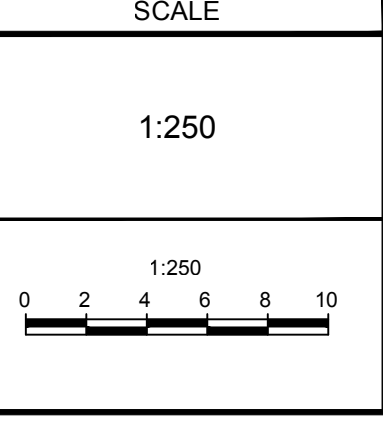
1. MAINTENANCE HOLE TO HAVE EXTERNAL DROOF STRUCTURE AS PER OPSS 1003.010

STM MANHOLE TABLE			
MANHOLE ID	SIZE (mm)	T/G ELEV (m)	INVERT (m)
400	1200mmØ	65.24	NW=63.09
402	1200mmØ	64.88	SE=62.89 N=62.86 SE=63.60
404	1200mmØ	65.53	W=63.26
406	1200mmØ	65.21	E=62.82 W=62.79 S=63.88

CATCHBASIN TABLE					
CB ID	SIZE (mm)	T/G ELEV (m)	INVERT (m)	ICD DIA (m)	100yr CAPTURE RATE (L/s)
CB-1	610 x 610 CB	64.92	SW=63.72	LMF 60	3.7
CB-3	610 x 610 CB	64.84	NW=63.64	83mmØ	16.3
CB-5	610 x 610 CB	65.13	N=63.93	83mmØ	16.2
CBMH-4	1,200mm dia CBMH	65.15	W=63.95	83mmØ	16.2

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
5.	REVISED PER CITY COMMENTS	DEC 20/24	TJM
4.	REVISED PER CITY COMMENTS	NOV 29/24	TJM
3.	RE-ISSUED FOR SITE PLAN APPROVAL	OCT 17/24	TJM
2.	ISSUED FOR SITE PLAN APPROVAL	AUG 14/24	TJM
1.	ISSUED FOR DISCUSSION	APR 26/24	TJM



DESIGN	SAM
CHECKED	TJM
DRAWN	SAM
CHECKED	TJM
APPROVED	TJM

PROFESSIONAL ENGINEER
 T. J. MCKAY
 100195434
 December 20, 2020
 PROVINCE OF ONTARIO

NOVATECH
 Engineers, Planners & Landscape Architects
 Suite 200, 240 Michael Copland Drive
 Ottawa, Ontario, Canada K2M 1P6
 Telephone: (613) 254-9643
 Facsimile: (613) 254-5867
 Website: www.novatech-eng.com

LOCATION
 CITY OF OTTAWA
 GREYSTONE VILLAGE

DRAWING NAME
 BLOCK 29
 GENERAL PLAN OF SERVICES

PROJECT No.
 114025

REV #
 REV # 5

DRAWING No.
 114025-FT-GP1

M:\2014\114025\CAD\Drawings\General\114025-FT-GP.dwg, FT-GP1, Dec 20, 2024, 3:26pm, channa

D07-12-24-0130