GENERAL NOTES:

- 1. COORDINATE AND SCHEDULE ALL WORK WITH OTHER TRADES AND CONTRACTORS.
- 2. 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.
- 3. OBTAIN ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY OF OTTAWA BEFORE COMMENCING CONSTRUCTION.
- 4. 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.
- 5. 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.
- 6. 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.
- 7. ALL ELEVATIONS ARE GEODETIC.
- 8. REFER TO GEOTECHNICAL REPORT (65032.03, DATED FEB 14, 2020), PREPARED BY GEMTEC., 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
- 9. REFER TO ARCHITECT'S AND LANDSCAPE ARCHITECT'S DRAWINGS FOR BUILDING AND HARD SURFACE AREAS AND DIMENSIONS
- 10. REFER TO DEVELOPMENT SERVICING & STORMWATER MANAGEMENT REPORT (R-2020-036) PREPARED BY NOVATECH.
- 11. SAW CUT AND KEY GRIND ASPHALT AT ALL ROAD CUTS AND ASPHALT TIE IN POINTS AS PER CITY OF OTTAWA STANDARDS (R10).
- 12. REFER TO EROSION AND SEDIMENT CONTROL PLAN PREPARED BY GEMTEC, PROJECT 65032.03, DATED FEBRUARY 04, 2020 FOR EROSION AND SEDIMENT CONTROL REQUIREMENTS DURING CONSTRUCTION.

SEWER NOTES:

2. SPECIFICATIONS:

<u>SPEC No</u> 705.010

701.010

701.050

400.020

401.010

PVC DR 35

PVC DR 35, CONC 65D

S31

S6

- ITEM CATCHBASIN (600x600mm) STORM / SANITARY MANHOLE (1200mmØ) STORM MANHOLE (1800mmØ) CB, FRAME & COVER
- STORM / SANITARY MH FRAME & COVER LANDSCAPE DRAIN SEWER TRENCH
- SANITARY SEWER STORM SEWER
- 3. ALL STORM AND SANITARY SERVICE LATERALS SHALL BE EQUIPPED WITH BACKFLOW PREVENTION DEVICES AS PER THE CITY OF OTTAWA STANDARD DETAILS S14 AND S14.1 OR S14.2
- 4. INSULATE ALL PIPES (SAN/STM) THAT HAVE LESS THAN 1.5m COVER WITH HI-40 INSULATION PER INSULATION DETAIL FOR SHALLOW SEWERS. PROVIDE 150mm CLEARANCE

CHANGES, ETC.

- BETWEEN PIPE AND INSULATION. 5. SERVICES ARE TO BE CONSTRUCTED TO 1.0m FROM FACE OF BUILDING AT A MINIMUM SLOPE OF 1.0%.
- 6. 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. 7. 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. 8. 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 OPSS 410.07.16, 410.07.16.04 AND 407.07.24. 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.
- UNLESS OTHERWISE INDICATED.

- CONTRACTOR IS RESPONSIBLE TO FLUSH AND CLEAN ALL SEWERS & APPURTENANCES.



THE POSITION OF ALL POLE LINES, CONDUITS, WATERMAINS, 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.

OWNER INFORMATION CEDAR SANDS HOLDINGS INC. C/O STEVEN JAMES MENARD 184 REDPATH DRIVE OTTAWA, ONTARIO K2G 6K5

ISSUED FOR SITE PLAN APPLICATION

REVISION

ISSUED FOR COORDINATION

1. SUPPLY AND CONSTRUCT ALL SEWERS AND APPURTENANCES IN ACCORDANCE WITH THE MOST CURRENT CITY OF OTTAWA STANDARDS AND SPECIFICATIONS.



WATERMAIN NOTES:

1. SUPPLY AND CONSTRUCT ALL WATERMAINS AND APPURTENANCES IN ACCORDANCE WITH THE CITY OF OTTAWA STANDARDS AND SPECIFICATIONS. EXCAVATION, INSTALLATION, BACKFILL AND RESTORATION OF ALL WATERMAINS BY THE CONTRACTOR. CONNECTIONS AND SHUT-OFFS AT THE MAIN BY CITY OF OTTAWA FORCES. CHLORINATION OF THE WATER SYSTEM SHALL BE PERFORMED BY THE CONTRACTOR IN THE PRESENCE CITY OF OTTAWA FORCES. 2. SPECIFICATIONS:

્ટ	BPECIFICATIONS:	
	ITEM	SPEC. No
	WATERMAIN TRENCHING	W17
	THERMAL INSULATION IN SHALLOW TRENCHES	W22
	THERMAL INSULATION AT OPEN STRUCTURES	W23
	WATERMAIN SERVICE	W33



3. WATERMAIN SHALL BE MINIMUM 2.4m DEPTH BELOW GRADE UNLESS OTHERWISE INDICATED.

4. PROVIDE MINIMUM 0.5m CLEARANCE BETWEEN OUTSIDE OF PIPES AT ALL CROSSINGS.

5. WATER SERVICE IS TO BE CONSTRUCTED TO WITHIN 1.0m OF FOUNDATION WALL AND CAPPED, UNLESS OTHERWISE INDICATED.

9. ALL STORM MANHOLES AND CATCHBASIN MANHOLES ARE TO HAVE 300mm SUMPS UNLESS OTHERWISE INDICATED. ALL CATCHBASINS ARE TO HAVE 600mm SUMPS 10. ALL CATCHBASINS, MANHOLES AND/OR CATCHBASIN MANHOLES THAT ARE TO HAVE ICD'S INSTALLED WITHIN THEM ARE TO HAVE 600mm SUMPS. 11. ALL WEEPING TILE CONNECTIONS TO BE MADE TO THE PROPOSED STORM SEWER SYSTEM DOWNSTREAM OF ANY INLET CONTROL DEVICES. 12. THE CONTRACTOR IS TO TELEVISE (CCTV) ALL PROPOSED SEWERS, 200mmØ OR GREATER PRIOR TO BASE COURSE ASPHALT. UPON COMPLETION OF CONTRACT, THE 13. CONTRACTOR TO PROVIDE THE CONSULTANT WITH A GENERAL PLAN OF SERVICES INDICATING ALL APPLICABLE SERVICING AS-BUILT INFORMATION SHOWN ON THIS PLAN. AS-BUILT INFORMATION MUST INCLUDE: PIPE MATERIAL, SIZES, LENGTHS, SLOPES, INVERT AND T/G ELEVATIONS, STRUCTURE LOCATIONS AND ANY ALIGNMENT G=87.7NV=82.39± HIGHCROFT DRIVE AG NAIL ON HYDRO POLF ELEV=87.92 (1200mmØ) ·+-+'&'+-+-+-'&'++++'&'+-+-'&' T/G=87.75 W/INV=86.18 14.0m-450mmØ STM @ 0.35% SE INV=86.15 _____ – в — в — в — в — в — в — в <u>ехізтіро Ditch</u> в — в AX OVERHEAD WIRE T/G=88.76 7.0m-450mmØ STM @ 0.35%-EXISTING WATER SERVICE INV=87.0 TO BE BLANKED AT THE MAIN .0m-250mmø STM @ 1.00% - - C CBMH 6 (1200mmØ) T/G=87.75 NW INV=86.13 S INV=86.10 - REMOVE EXISTING CATCHBASIN AND LEAD AND REPLACE WITH NEW 450mmØ 6.0m-250mmØ STM @ Ø **PROPOSED 2 STOREY** MULTI-USE BUILDING FFE=87.93 STMMH 202 TF=87,75 (1200mmØ) BFE=85.41 T/G=87 85 N INV=86.08 USF=85.00 W INV=86.03 SANMH 10 ROAD CUT REINSTATEMENT (1200mmØ) PER CITY STANDARD R10 T/G=87.74 - X WHYV=84.67 - E INV=84.33 RD2 - PROVIDE INSULATION AS -17 BER CITY STANDARD W23 3.0m-150mmØ SAN @ 1.00%-SANITARY INVERT=84.70 MANO TOP OF WATER=85.60 -ORD1 8.0m-200mmØ STM @ 1.00%-STORM INVERT=86.10 TICK BASEMENT LIMIT BELOW MA Z CBMH 1 (1800mmØ) STR T/G=88.65 Ø INV=86.70 Π Π (NOT ACTUAL LOCATIC T/G=87.04 N INV∓85.5. \ S INV=85.63 FOR REVIEW ONLY SCALE MS / LSC HECKED OFESSION 1:150 elsando M. SAVIC LSC 100102651

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MS

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1:150

APR 20/20

MAR 31/20 MS

DATE BY

	HIGHCROTION SITE LOCATION RUDEST
<u>NORTH</u>	KEY PLAN

ROOF DRAIN TABLE: ROOF DRAINS RD1 & RD 2						
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
R-1	RD 1 (RD-100-A-ADJ)	1/2 OPEN	0.95 L/s	9 cm	1.10 L/s	13 cm
R-2	RD 2 (RD-100-A-ADJ)	1/2 OPEN	0.95 L/s	10 cm	1.10 L/s	13 cm

* REFER TO THE 'DEVELOPMENT SERVICING STUDY AND STORMWATER MANAGEMENT REPORT' (R-2020-036) PREPARED BY NOVATECH FOR DRAINAGE AREA IDENTIFIERS AND STORMWATER MANAGEMENT DETAILS. **ALL CONTROLLED FLOW ROOF DRAINS FOR THE PROPOSED BUILDING TO BE WATTS 'ADJUSTABLE ACCUTROL' ROOF DRAINS.

AREA A-1: INLET CONTROL DEVICE DATA - CBMH 3						
DESIGN EVENT	ICD TYPE (TEMPEST MODEL)	DIAMETER OF OUTLET PIPE (mm)	DESIGN FLOW (L/s)	DESIGN HEAD (m)	WATER ELEVATION (m)	STORAGE VOLUME (m ³)
1:5 YR	MODEL 80	250	4.9	0.74	87.37	15.3
1:100 YR	MODEL 80	250	8.3	2.07	88.70	30.3

EGEND			
	PROPERTY LINE	200mmø WM	EXISTING WATERMAIN
DC	PROPOSED DEPRESSED CURB	⊗ ⊗	EXISTING VALVE & VALVE BOX
	PROPOSED STORM SEWER	SAN MH	EXISTING SANITARY MH & SEWER
	PROPOSED SANITARY SEWER	STM MH	EXISTING CATCHBASIN MH & STORM SEWER EXISTING STORM MH & SEWER
	PROPOSED WATERMAIN	CBMH G	EXISTING CATCHBASIN & CATCHBASIN LEAD
8 8	PROPOSED STANDPOST	<i>CB</i>	
M	PROPOSED WATER METER	—— G ——	EXISTING GAS
RM	PROPOSED WATER REMOTE METER	C	EXISTING CABLE
Õ	PROPOSED CATCHBASIN MANHOLE	— в —	EXISTING BELL
U	(DIAMETER AS INDICATED)	——————————————————————————————————————	EXISTING OVERHEAD WIRES
	EXISTING CURB	EX HP	EXISTING UTILITY POLE CAW GUY WIRES
CONNEC CITY ST/ REINST/ INVERT= SANITAF CLEARA	CT TO EXISTING 600mmØ CONCRETE SAN ANDARD DETAIL S11. EXCAVATION, BACK ATEMENT BY CONTRACTOR. PROPOSED 1 :84.15m. EXISTING SANITARY SPRINGLINE RY SERVICE TO CROSS BELOW EXISTING NCE BETWEEN OUTSIDE OF PIPES AT CR	ITARY SEWER PER FILL AND 50mmØ SERVICE : ELEV= 82.72m±. 406mmØ WATERMAIN. OSSING=0.5m. AIN BY CITY FORCES.	
OF F	PROPOSED TOP OF WATER SERVICE=85.1 DETERMINE EXACT LOCATION AND ELEVA FIELD. EXCAVATION, BACKFILL AND REINS CONTRACTOR, BOTTOM OF EXISTING WAT CONNECT TO EXISTING 450mmØ STOR	7m±. CONTRACTOR TO TION OF WATERMAIN IN TATEMENT BY FERMAIN=84.84m±.	ARD
OH	CONTRACTOR. PROPOSED 200mmØ SI STORM SPRINGLINE ELEV= 85.98m±.	ND REINSTATEMENT BY ERVICE INVERT=86.02m. EXI	STING

LOCAT		
CITY		
5506	VATECH	NC
DRAW	anners & Landscape Architects	Engineers, F
	240 Michael Cowpland Drive Ontario, Canada K2M 1P6	Suite 200, Ottawa,
GENI	(613) 254-9643 (613) 254-5867	Telephone Facsimile
	www.novatech-eng.com	Website

EX SANMH 🎈

T/G=87.03 INV=82.50±

(NOT ACTUAL LOCATION)

OCATION
CITY OF OTTAWA
5506 MAIN STREET MANOTICK
RAWING NAME

ERAL PLAN OF SERVICES

119234 REV # 2 VING No. 119234-GP