

	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 UTILIT COMMENCING CONSTRUCTION. PROTECT AND ASSUME RESPONSIBILITY FOR ALL EXISTING OR NOT SHOWN ON THIS DRAWING.			
	3.	OBTAIN ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY OF OTTAWA BEFORE COCONSTRUCTION.			
NED	BEFORE COMMENCING CONSTRUCTION OBTAIN AND PROVIDE PROOF OF COMPREHENSIVE, OPERATIONAL LIABILITY INSURANCE FOR \$5,000,000.00. INSURANCE POLICY TO NAME OWNE ARCHITECTS AS CO-INSURED.				
mØ RMAIN ₹VICE	5.	RESTORE ALL DISTURBED AREAS ON-SITE AND OFF-SITE, INCLUDING TRENCHES AND SURFAROAD ALLOWANCES TO EXISTING CONDITIONS OR BETTER TO THE SATISFACTION OF THE C ENGINEER.			
	6.	REMOVE FROM SITE ALL EXCESS EXCAVATED MATERIAL, ORGANIC MATERIAL AND DEBRIS UNSTRUCTED BY ENGINEER. EXCAVATE AND REMOVE FROM SITE ANY CONTAMINATED MATE CONTAMINATED MATERIAL SHALL BE DISPOSED OF AT A LICENSED LANDFILL FACILITY.			
	7.	ALL ELEVATIONS ARE GEODETIC.			
(1^0)	8.	REFER TO GEOTECHNICAL REPORT (#190186, DATED APRIL 02, 2020), PREPARED BY KOLLAR SUBSURFACE CONDITIONS, CONSTRUCTION RECOMMENDATIONS, AND GEOTECHNICAL INSI REQUIREMENTS. THE GEOTECHNICAL CONSULTANT IS TO REVIEW ON-SITE CONDITIONS AFT PRIOR TO PLACEMENT OF THE GRANULAR MATERIAL. THE GEOTECHNICAL CONSULTANT IS APPROVE THE CONCRETE MIX FOR UNDERGROUND STRUCTURES TO ENSURE IT IS ADEQUA CORROSIVE SOIL ENVIRONMENT.			
12 ³	9.	REFER TO ARCHITECT'S AND LANDSCAPE ARCHITECT'S DRAWINGS FOR BUILDING AND HARD AND DIMENSIONS.			
ОН	10.	REFER TO STORMWATER MANAGEMENT REPORT (R-2019-103) PREPARED BY NOVATECH ENCONSULTANTS LTD.			
ОН	11.	SAW CUT AND KEY GRIND ASPHALT AT ALL ROAD CUTS AND ASPHALT TIE IN POINTS AS PER STANDARDS (R10).			
YSTEM GHT	12.	REFER TO TOPOGRAPHICAL SURVEY No. 19-10-009-00 PREPARED BY J.D. BARNES DATED MA			
ALS. X 2438mm TO STRUCTURE	13.	RECENT MUNICIPAL ROAD WORKS DESIGN INFORMATION WAS INTEGRATED TO THE PLAN AS INFORMATION PER THE "INTEGRATED ROAD, SEWER & WATERMAIN CONSTRUCTION - FLORE McLEOD STREET" DRAWINGS, ISSUED FOR CONSTRUCTION ON APRIL 25, 2019, CONTRACT N			
ጋ 1.8%					
n X 2/38mm	C				

LID AND FRAME TO BE SECURED TO STRUCTURE

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

2. SPECIFICATIONS: STORM/CATCHBASIN MANHOLE (1200Ø)

STORM/CBMH FRAME AND COVER SAN MH FRAME AND COVER WATERTIGHT MANHOLE FRAME AND COVER SWM TANK FRAME & COVER SECURED TO CONC. S.P.No.: F-4070 CATCHBASIN (600x600mm CB, FRAME & COVER SEWER TRENCH

STORM SEWER BUILDING STORM SERVICE

BUILDING SANITARY SERVICE

- 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 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,
- 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.

WATERMAIN NOTES:

- 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, SHUT-OFFS AT THE MAIN AND CHLORINATION OF THE WATER SYSTEM SHALL BE PERFORMED BY CITY OF OTTAWA FORCES.
- 2. SPECIFICATIONS: WATERMAIN TRENCHING THERMAL INSULATION IN SHALLOW TRENCHES W22 INSULATION ADJACENT TO OPEN STRUCTURES W23
- 75mmØ WATER SERVICE COPPER TYPE K
- 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. PROPOSED WATER SERVICES ARE TO BE CONSTRUCTED TO WITHIN 1.0m OF FOUNDATION WALL AND CAPPED, UNLESS OTHERWISE INDICATED.

GRADING NOTES:

REVISION

- 1. ALL TOPSOIL, ORGANIC OR DELETERIOUS MATERIAL MUST BE ENTIRELY REMOVED FROM BENEATH THE
- 2. EXPOSED SUBGRADES IN PROPOSED PAVED AREAS SHOULD BE PROOF ROLLED WITH A LARGE STEEL DRUM
- ROLLER AND INSPECTED BY THE GEOTECHNICAL ENGINEER PRIOR TO THE PLACEMENT OF GRANULARS. 3. ANY SOFT AREAS EVIDENT FROM THE PROOF ROLLING SHOULD BE SUB-EXCAVATED AND REPLACED WITH SUITABLE MATERIAL THAT IS FROST COMPATIBLE WITH THE EXISTING SOILS AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER.
- 4. THE GRANULAR BASE SHOULD BE COMPACTED TO AT LEAST 100% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY VALUE. ANY ADDITIONAL GRANULAR FILL USED BELOW THE PROPOSED PAVEMENT SHOULD BE COMPACTED TO AT LEAST 95% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY VALUE.
- 5. MINIMUM OF 2% GRADE FOR ALL GRASS AREAS UNLESS OTHERWISE NOTED.
- 6. MAXIMUM TERRACING GRADE TO BE 3:1 UNLESS OTHERWISE NOTED.
- 8. ALL CURBS SHALL BE BARRIER CURB (150mm) UNLESS OTHERWISE NOTED AND CONSTRUCTED AS PER CITY OF OTTAWA STANDARDS (SC1.1).
- 9. REFER TO LANDSCAPE PLAN FOR PLANTING AND OTHER LANDSCAPE FEATURE DETAILS.
- 10. CONTRACTOR TO PROVIDE THE CONSULTANT WITH A GRADING PLAN INDICATING AS-BUILT ELEVATIONS OF ALL DESIGN GRADES SHOWN ON THIS PLAN.
- 11. NO EXCESS DRAINAGE, EITHER DURING OR AFTER CONSTRUCTION, WILL BE DIRECTED TOWARDS NEIGHBOURING PROPERTIES. NO ALTERATION OF EXISTING GRADES AND DRAINAGE PATTERNS ON PROPERTY BOUNDARIES, ENSURE POSITIVE DRAINAGE AWAY FROM FOUNDATIONS

- AND WILL REMAIN IN PLACE DURING ALL PHASES OF CONSTRUCTION.
- APPLICABLE REGULATORY AGENCY.
- OR DEBRIS
- AUTHORITY

WEEPING TILE & SUMP PUMP NOTES:

- STANDARDS AND SPECIFICATIONS.
- OTTAWA TECHNICAL BULLETIN ISTB-2018-04; CLAUSES 5.12.2.1 (SUMP PUMP CRITERIA), 5.12.2.2 (SUMP PITS) AND 5.12.2.4 (BACK-UP SYSTEM) .
- CLAUSE 5.12.2.3 (DISCHARGE PIPE SYSTEM).
- THE DRAWING. IN ACCORDANCE WITH THE CITY OF OTTAWA TECHNICAL BULLETIN ISTB-2018-04; CLAUSE 5.12.2.3 (DISCHARGE PIPE SYSTEM).
- ISTB-2018-04.

INLET CONTROL DEVICE DATA - CBM						
DESIGN EVENT	ICD TYPE (HYDROVEX MODEL)	DIAMETER OF OUTLET PIPE (mm)	DESIGN FLOW (L/s)	DESIGI HEAD (I		
1:5 YR	YR HYDROVEX 32) YR SVHV-1, 10, OF	250	1.05	0.71		
1:100 YR			1.50	1.56		







REVISED PER CITY COMMENTS JUL 2/20 5 REVISED PER CITY COMMENTS MAY 21/20 REVISED PER CITY COMMENTS MAR 25/20 3 ISSUED FOR COORDINATION MAR 03/20 REVISED PER CITY COMMENTS JAN 07/20 ISSUED FOR SITE PLAN APPLICATION JULY 18/19