

1:400

## 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 EITHER 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. LOCATE AND REMOVE FROM SITE ANY CONTAMINATED MATERIAL. ALL CONTAMINATED MATERIAL SHALL BE DISPOSED OF AT A LICENSED LANDFILL FACILITY.
- ALL ELEVATIONS ARE GEODETIC. EXISTING TOPOGRAPHIC INFORMATION HAS BEEN COMPILED FROM CITY OF OTTAWA 1:1000 BASE MAPS AND TOPOGRAPHIC SURVEY INFORMATION FROM JOB #1806-18 BY ANIS, CULLIVAN, VOLLEBERG LTD. DATED JUNE 13, 2018.
- REFER TO GEOTECHNICAL REPORTS (NO. 1811310-4000, DATED APRIL 2019) AND (NO. 1537295-1000, DATED MAY 2017), PREPARED BY GOLDER ASSOCIATES LTD. FOR SUBSURFACE CONDITIONS, CONSTRUCTION RECOMMENDATIONS, AND FOR GEOTECHNICAL INSPECTION REQUIREMENTS. THE GEOTECHNICAL CONSULTANT IS TO REVIEW ON-SITE CONDITIONS AFTER EXCAVATION PRIOR TO PLACEMENT OF THE GRANULAR MATERIAL.
- REFER TO ARCHITECTS AND LANDSCAPE ARCHITECTS DRAWINGS FOR BUILDING AND HARDSURFACE AREAS AND DIMENSIONS.
- REFER TO THE SITE SERVING REPORT (R-2018-151) AND THE STORMWATER MANAGEMENT REPORT (R-2018-150) BOTH PREPARED BY NOVATECH ENGINEERING CONSULTANTS LTD.
- SAV 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 GENERAL PLAN OF SERVICES INDICATING ALL SERVING AS-BUILT INFORMATION SHOWN ON THIS PLAN, AS-BUILT INFORMATION MUST INCLUDE: PIPE MATERIAL, SIZE, LENGTHS, SLOPE, INVERT AND ELEVATION, STRUCTURE LOCATIONS, VALVE AND HYDRANT LOCATIONS, TWM ELEVATIONS AND ANY ALIGNMENT CHANGES, ETC.

## BENCHMARK INFO:

JOB BENCHMARK No. 1 CUT CROSS ON CONCRETE BASE OF LIGHT STANDARD NEAR NORTH-EAST CORNER THE INTERSECTION OF PRINCE OF WALES DRIVE AND LODGE ROAD. ELEVATION = 87.07m.

JOB BENCHMARK No. 2 MAGNETIC NAIL AT EAST EDGE OF EXISTING LODGE ROAD. ELEVATION = 84.70m.

REFER TO THE OLS PLAN OF SURVEY (DRAWING 18062-18) BY ADZ FOR SPECIFIC DETAILS.

## SEWER NOTES:

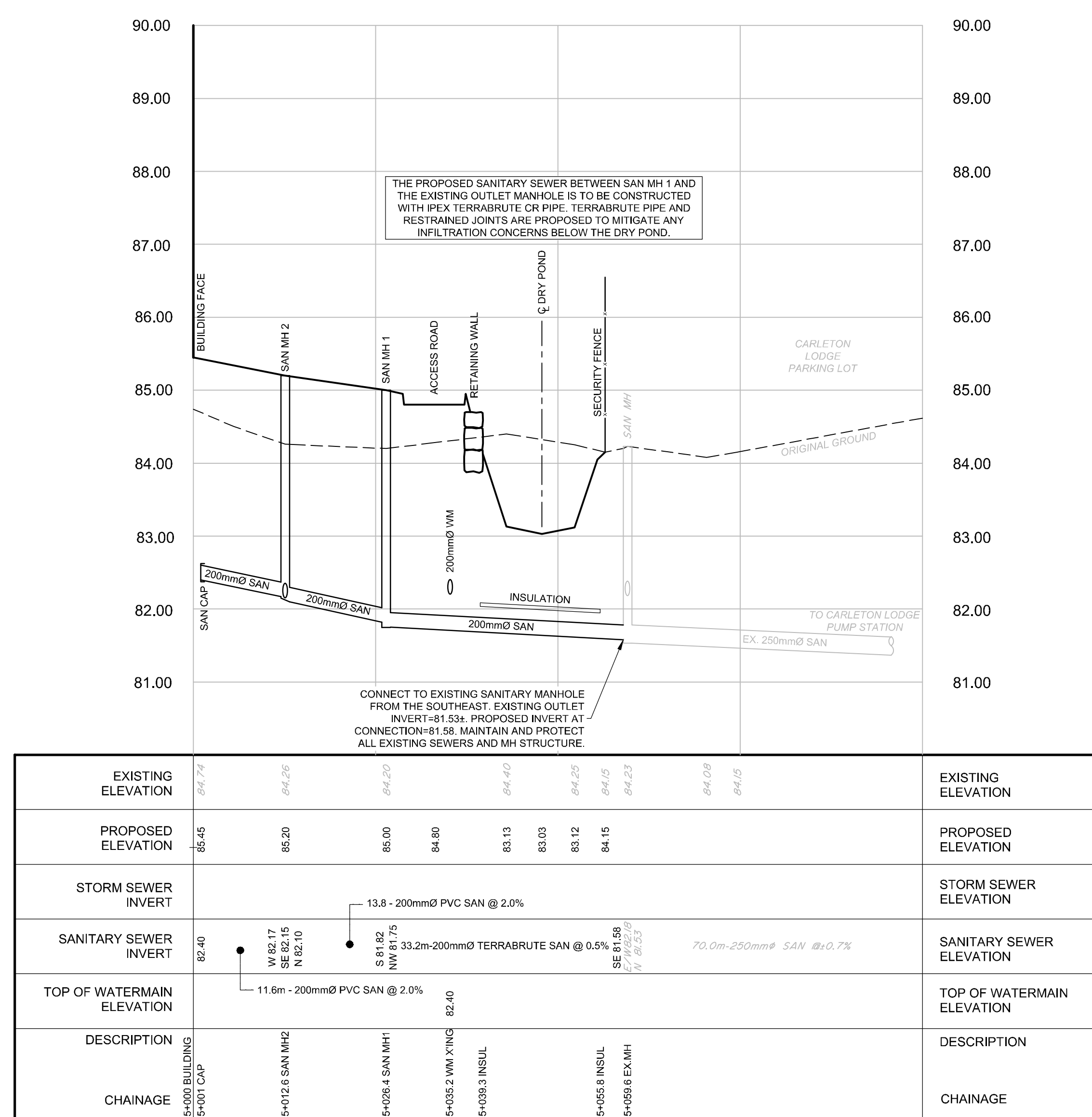
- SUPPLY AND CONSTRUCT ALL SEWERS AND APPURTENANCES IN ACCORDANCE WITH THE MOST CURRENT CITY OF OTTAWA STANDARDS AND SPECIFICATIONS.
- SPECIFICATIONS:

ITEM	SPEC. NO.	REFERENCE
CATCHBASIN (600x600mm)	705.010	OPSD
STORM / SANITARY MANHOLE (1200mm)	701.010	OPSD
CB FRAME & COVER	400.020	OPSD
STORM / SANITARY MH FRAME & COVER	401.010	OPSD
WATERTIGHT MH FRAME AND COVER	401.020	OPSD
SEWER TRENCH	58	CITY OF OTTAWA
STORM SEWER	PVC DR 35	
SANITARY SEWER	PVC DR 35	
SANITARY SEWER BELOW DRY POND	PVC DR 35	
CATCHBASIN LEAD	PVC DR 35	
- 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.
- INSULATE ALL PIPES (SAN/STM) THAT HAVE LESS THAN 1.5m COVER WITH H140 INSULATION PER INSULATION DETAIL FOR SHALLOW SEWERS. PROVIDE 150mm CLEARANCE BETWEEN PIPE AND INSULATION.
- SEWERS 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-SEAL, PSX, POSITIVE SEAL AND DUKSEAL). THE CONCRETE CRIBLE FOR THE PIPE CAN BE ELIMINATED.
- THE OWNER SHALL REQUIRE THAT THE SITE SERVING CONTRACTOR PERFORM FIELD TESTS FOR QUALITY CONTROL OF ALL SANITARY SEWERS. LEAKAGE TESTING SHALL BE COMPLETED IN ACCORDANCE WITH OPS 47.07.16, 47.07.16.64 AND 47.07.24. 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.
- ALL STORM MANHOLES AND CATCHBASIN MANHOLES ARE TO HAVE 300mm SUMPS UNLESS OTHERWISE INDICATED. ALL CATCHBASINS ARE TO HAVE 600mm SUMPS UNLESS OTHERWISE INDICATED.
- ALL CATCHBASINS, MANHOLES AND/OR CATCHBASIN MANHOLES THAT ARE TO HAVE ICD'S INSTALLED WITHIN THEM ARE TO HAVE 600mm SUMPS.
- ALL WEAVING TILE CONNECTIONS ARE TO BE MADE TO THE PROPOSED STORM SEWER SYSTEM DOWNSTREAM OF ANY INLET CONTROL DEVICES.
- CONTRACTOR TO TELEVIEW (CCTV) ALL PROPOSED SEWERS, 200mm OR GREATER PRIOR TO BASE COURSE ASPHALT, UPON COMPLETION OF CONTRACT, THE CONTRACTOR IS RESPONSIBLE TO FLUSH AND CLEAN ALL SEWERS & APPURTENANCES. PROVIDE COPY OF CCTV INSPECTION REPORT TO THE ENGINEER.

## LEGEND

SAN MH	PROPOSED SANITARY MH & SEWER	PROPERTY LINE	PROPERTY LINE
CB MH	PROPOSED CATCHBASIN MANHOLE c/w 3.0m RADIAL SUBSANS PER DETECH	SAN MH	EXISTING CONCRETE CURB
STM MH	PROPOSED STORM MANHOLE & SEWER	CB MH	EXISTING SANITARY MANHOLE AND SEWER
CB	PROPOSED CATCHBASIN c/w 3.0m RADIAL SUBSANS PER DETECH	STM MH	EXISTING STORM MANHOLE AND SEWER
HYD	PROPOSED HYDRANT AND VALVE	CB	EXISTING CATCHBASIN C/W CATCHBASIN LEAD
DC	PROPOSED DEPRESSURE CURB	HYD	EXISTING HYDRANT
200mm	PROPOSED WATERMAIN AND DIAMETER	EX UP	EXISTING UTILITY POLE C/W DUT WINGS
VB	PROPOSED VALVE AND VALVEBOX	200mm	EXISTING WATERMAIN
BEND	PROPOSED BEND AND THRUSTBLOCK 11.25°, 22.5°, 45° or TEE	HYD	EXISTING HYDRANT C/W VALVE & LEAD
C	PROPOSED CAP	1.5	EXISTING LIGHT STANDARD
ICD	PROPOSED INLET CONTROL DEVICE	EXISTING	EXISTING OVERHEAD UTILITY WINGS
RD	ROOF DRAIN	WM	PROPOSED WATER METER AND REMOTE METER
TI	THERMAL INSULATION FOR SHALLOW SEWERS	GM	PROPOSED GAS METER
RE	PROPOSED BUILDING ENTRANCE	CON	CONCRETE HEADWALLS
RT	PROPOSED RETAINING WALL		
STW	PROPOSED STORMWATER QUALITY TREATMENT UNIT		

## RIDEAU RIVER



**Keyplan:**

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**DRAFT**  
NOT FOR CONSTRUCTION

1	OCT 3/19	ISSUED FOR B/L DESIGN
2	OCT 10/19	REVISED PER CITY COMMENTS

# DATE REVISION NOTE

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Stamp:

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Owner / Developer: **CITY OF OTTAWA**  
110 LAURIER AVENUE WEST,  
OTTAWA ON K1P 1J1

Architect: **COLLIERS PROJECT LEADERS INC.**  
150 BABELLA STREET, SUITE 700,  
OTTAWA ON K1S 1V7

Project: **SOUTH PHASE A**  
3505 PRINCE OF WALES DRIVE,  
OTTAWA ON

Title: **SANITARY OUTLET PLAN and PROFILE**

Scale: As Noted Sheet No.:  
Date: 22 April 2019  
Job No.: 118043 Civil  
Drawn By: SM - Novatech  
Checked By: FST - Novatech  
Approved By: CJS - Novatech

**C-302**

CITY PLAN # 17973

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION  
D07-12-19-0090