

LEGEND

—	PROPERTY LINE	—	DIRECTION OF FLOW
—	PROPOSED WATER SERVICE	—	PROPOSED PIPE INSULATION
SP	PROPOSED STANDPOST	—	EXISTING WATERMAIN CW VALVE & VALVE CHAMBER
C	PROPOSED CAP	—	EXISTING HYDRANT CW VALVE & LEAD
—	PROPOSED WATER METER	—	EXISTING SANITARY MANHOLE & SEWER
—	PROPOSED REMOTE METER	—	EXISTING STORM MANHOLE & SEWER
—	PROPOSED SANITARY SERVICE	—	EXISTING CATCHBASIN
—	PROPOSED SANITARY MANHOLE	—	—
—	PROPOSED STORM SERVICE	—	—
—	PROPOSED STORM CBMH	—	—
—	PROPOSED STORM MANHOLE	—	—
—	PROPOSED CATCHBASIN	—	—
—	PROPOSED DOWNSPOUT LOCATION	—	—
—	EASEMENT	—	—
—	100 YEAR WATER LEVEL LIMIT	—	—
—	100 YEAR PLUS STRESS TEST LIMIT	—	—

- 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 \$2,000,000.00. 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 ARCHITECTS' DRAWINGS FOR BUILDING AND HARDSURFACE AREAS AND DIMENSIONS.
 - SAW CUT AND KEY GRIND ASPHALT AT ALL ROAD CUTS AND ASPHALT TIE IN POINTS AS PER CITY OF OTTAWA STANDARDS (R10).
 - CONTRACTOR TO PROVIDE THE CONSULTANT WITH A GENERAL PLAN OF SERVICES INDICATING ALL SERVICING AS-BUILT INFORMATION SHOWN ON THIS PLAN, AS-BUILT INFORMATION MUST INCLUDE: PIPE MATERIAL, SIZES, LENGTHS, SLOPES, INVERT AND TIG ELEVATIONS, STRUCTURE LOCATIONS, VALVE AND HYDRANT LOCATIONS, TWM ELEVATIONS AND ANY ALIGNMENT CHANGES, ETC.
 - ROOF TO BE SLOPED AND ASPHALTIC.

WATERMAIN NOTES:

ITEM	SPEC. No.	REFERENCE
WATERMAIN TRENCHING	W17	CITY OF OTTAWA
THERMAL INSULATION IN SHALLOW TRENCHES	W22	CITY OF OTTAWA
THERMAL INSULATION AT OPEN STRUCTURES	W23	CITY OF OTTAWA
WATERMAIN SERVICE (19mm DIA.)	W26 & W38	CITY OF OTTAWA
WATERMAIN SERVICE (50mm DIA.)	W35 & W38	CITY OF OTTAWA
WATERMAIN SERVICE	W32	CITY OF OTTAWA
WATER METER	W32	CITY OF OTTAWA
PRESSURE REDUCING VALVE	MW19.6.5.4.1.	CITY OF OTTAWA

2) SUPPLY AND CONSTRUCT ALL WATERMANS AND APPURTENANCES IN ACCORDANCE WITH THE CITY OF OTTAWA STANDARD AND SPECIFICATIONS FOR 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.

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

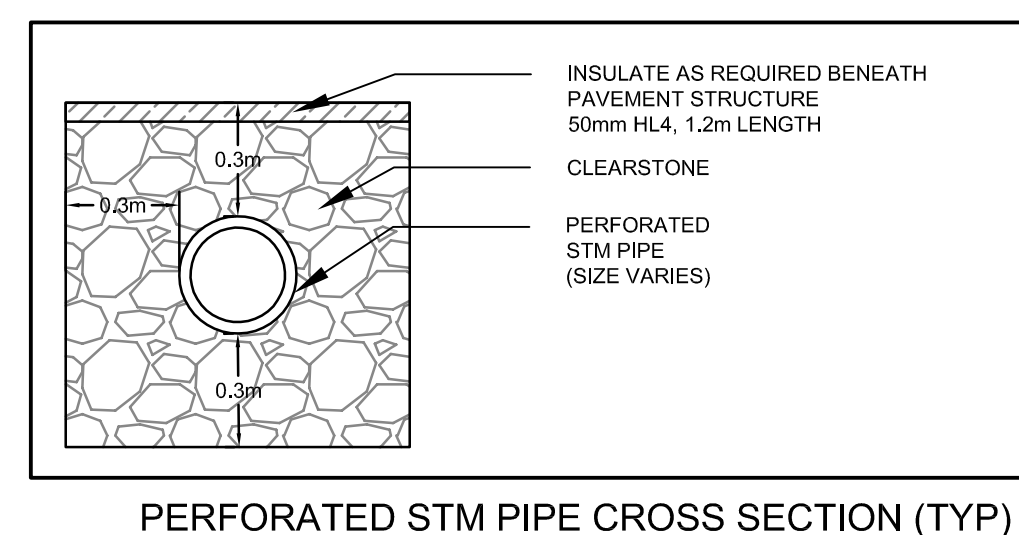
4) PROVIDE MINIMUM 0.30m CLEARANCE BETWEEN OUTSIDE OF PIPES AT ALL CROSSINGS WITH A 10m ROLL.

5) WATER SERVICE IS TO BE CONSTRUCTED TO WITHIN 1.0m OF FOUNDATION WALL AND CAPPED, UNLESS OTHERWISE INDICATED. PROTECT COPPER SERVICE @ BUILDING FOOTPRINT WITH PLYWOOD SHEET/MARKER.

SEWER NOTES:

ITEM	SPEC. No.	REFERENCE
SEWER TRENCH - BEDDING (GRANULAR A)	OPSD	OPSD
COVER (GRANULAR A OR GRANULAR B TYPE I, WITH MAXIMUM PARTICLE SIZE=25mm)	OPSD	OPSD
SANITARY SEWER	PVC DR 25	CITY OF OTTAWA
STORM SEWER	PVC DR 28	CITY OF OTTAWA
CONC. OR PVC DR 28 (AS SPECIFIED)	PVC DR 28	CITY OF OTTAWA
SEWER SERVICE CONNECTIONS	§ 14 AND EITHER §14.1 OR §14.2	CITY OF OTTAWA
BACKWATER VALVE TYPE	§ 14 AND EITHER §14.1 OR §14.2	CITY OF OTTAWA

- INSULATE ALL PIPES (SAN/STM) THAT HAVE LESS THAN 1.5m COVER WITH 50mmX1200mm H-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-4 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 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.
- EAVESTROUGH TO BE INSTALLED AND DIRECTED TO THE BACK OF PROPERTY.
- SLEEVING IS REQUIRED FOR ANY SERVICE LATERALS RUNNING UNDER THE GARAGES AND DRIVEWAYS.



CATCHBASIN TABLE

CB No.	TIG ELEVATION	INVERT	DESCRIPTION
CB 200	74.83	72.41	600mm X 600mm CB AS PER OPSD 705.010 & S19
CBMH 210	74.85	72.99	1200mmØ CBMH AS PER OPSD 705.010 & S28
CBMH 100	75.00	W = 72.81 S = 72.87	1200mmØ CBMH AS PER OPSD 705.010 & S28

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.

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No.	REVISION	DATE	BY
3.	ISSUED IN SUPPORT OF SEVERANCES AND SITE PLAN APPLICATION	MAY 08/17	BHB
2.	ISSUED FOR DISCUSSION	APR 26/17	BHB
1.	ISSUED FOR DISCUSSION	JAN 26/17	BHB

SCALE: 1:200

FOR REVIEW ONLY

EST
BHB
EST
BHB
JGR

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LOCATION
CITY OF OTTAWA
373 PRINCETON

DRAWING NAME
INTERIM GENERAL PLAN OF SERVICES

PROJECT No.: 116126-00
REV # 3
DRAWING No.: 116126-GP1