

LEGEND

—	PROPERTY LINE	—	PROPOSED PIPE INSULATION
SP	PROPOSED WATER SERVICE	—	EXISTING WATERMAIN CW VALVE & VALVE CHAMBER
—	PROPOSED STANDPOST	—	EXISTING HYDRANT CW VALVE & LEAD
—	PROPOSED CAP	—	EXISTING SANITARY MANHOLE & SEWER
—	PROPOSED WATER METER	—	EXISTING STORM MANHOLE & SEWER
—	PROPOSED REMOTE METER	—	EXISTING CATCHBASIN
—	PROPOSED SANITARY SERVICE	—	EXISTING GAS MAIN
—	PROPOSED SANITARY MANHOLE	—	EXISTING OVERHEAD WIRES
—	PROPOSED STORM SERVICE	—	EXISTING BELL WIRE
—	PROPOSED STORM CBMH	—	PROPOSED ROAD CUT AND ASPHALT REINSTATEMENT AS PER R10
—	PROPOSED STORM MANHOLE	—	EXISTING TREE
—	PROPOSED CATCHBASIN	—	300mm OF AMENDED TOPSOIL OR 100mm OF TOPSOIL AND 500 UNDERLAIN BY 200mm OF COARSE SAND
—	PROPOSED CATCHBASIN	—	100 YEAR WATER LEVEL LIMIT
—	ROOF DOWNSPOUT LOCATION	—	100 YEAR PLUS STRESS TEST LIMIT
—	EASEMENT	—	GABION STONE

- 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 SERVICES 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.

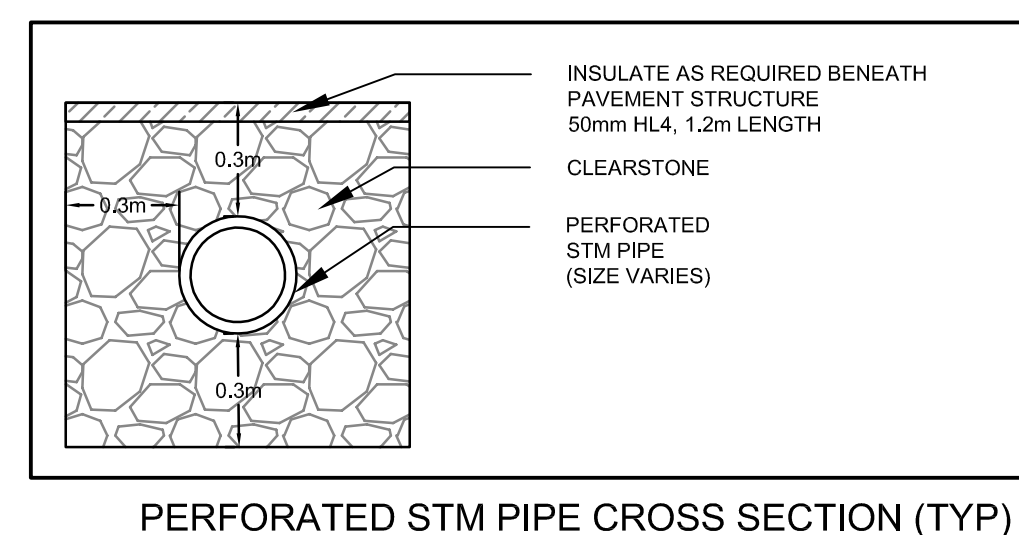
4) PROVIDE MINIMUM 0.30m CLEARANCE BETWEEN OUTSIDE OF PIPES AT ALL CROSSINGS WITH A 10m ROLL.

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/PAINTER.

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 25	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 (SANITARY) THAT HAVE LESS THAN 1.5m COVER WITH 50mm X 1200mm HE-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 KORH-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 OPS 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

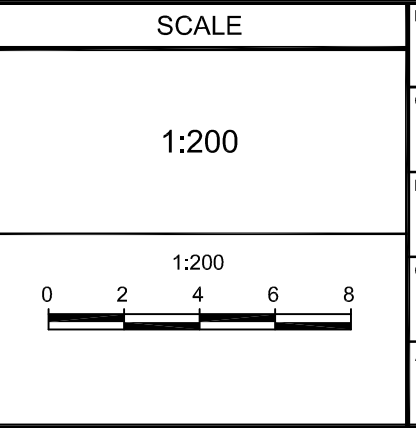
CB No.	TIG ELEVATION	INVERT	DESCRIPTION
CB 200	74.83	72.41	600mm X 600mm CB AS PER OPSD 705.010 & S19
CBMH 210	74.85	72.99	1200mmØ CBMH AS PER OPSD 705.010 & S28
CBMH 100	75.00	W = 72.81 S = 72.87	1200mmØ CBMH AS PER OPSD 705.010 & S28

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.

CORNERSTONE HOUSING FOR WOMEN
C/O CAHDCO
(ATTN: CYNTHIA JACQUES)
SUITE 200, 415 GILMOUR STREET
OTTAWA, ONTARIO
K2G 2M8
PHONE: (613) 234-4065
Cynthia.Jacques@ccohousing.org

UNIFORM URBAN DEVELOPMENTS
(ATTN: ANNABELE FERRO)
SUITE 300, 117 CENTREPOINTE DRIVE
OTTAWA, ONTARIO
K2G 5X3
PHONE: (613) 225-0770
aferro@uniformdevelopments.com

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



FOR REVIEW ONLY

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NOVATECH
Engineers, Planners & Landscape Architects
Suite 200, 240 Michael Cowland Drive
Ottawa, Ontario, Canada K2M 3P6
Telephone: (613) 254-9643
Facsimile: (613) 254-5867
Website: www.novatech-eng.com

LOCATION
CITY OF OTTAWA
373 PRINCETON

DRAWING NAME
INTERIM GENERAL PLAN OF SERVICES

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