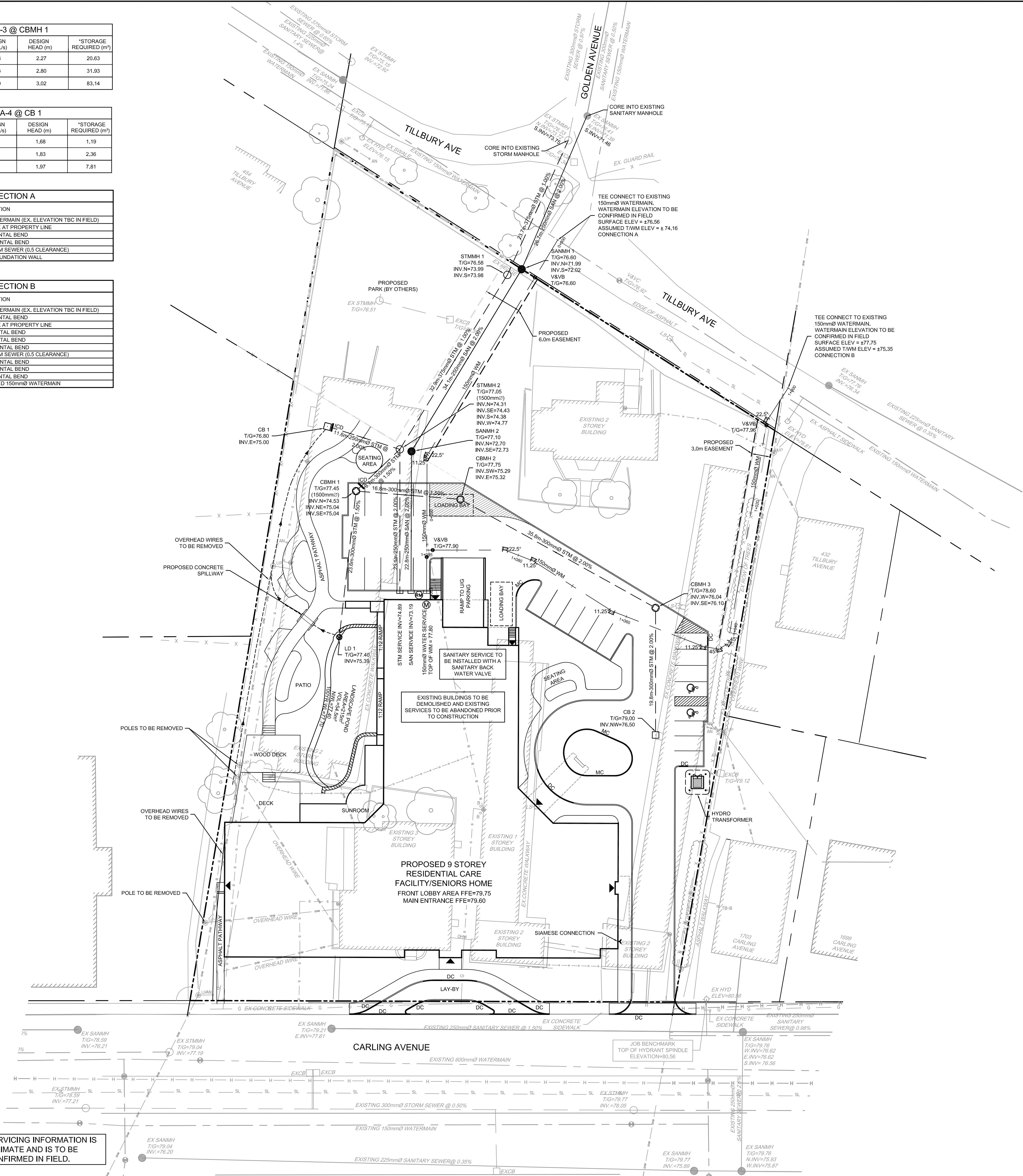


INLET CONTROL DEVICE FOR AREA A-3 @ CBMH 1					
DESIGN EVENT	ICD TYPE AND SIZE	DIAMETER OF OUTLET PIPE (mm)	DESIGN FLOW (L/s)	DESIGN HEAD (m)	*STORAGE REQUIRED (m³)
1.2 YEAR	TEMPEST LMF 105	300	14.8	2.27	20.63
1.5 YEAR	TEMPEST LMF 105	300	16.3	2.80	31.93
1:100 YEAR	TEMPEST LMF 105	300	17.0	3.02	83.14

INLET CONTROL DEVICE FOR AREA A-4 @ CB 1					
DESIGN EVENT	ICD TYPE AND SIZE	DIAMETER OF OUTLET PIPE (mm)	DESIGN FLOW (L/s)	DESIGN HEAD (m)	*STORAGE REQUIRED (m³)
1.2 YEAR	TEMPEST LMF 60	250	4.2	1.68	1.19
1.5 YEAR	TEMPEST LMF 60	250	4.3	1.83	2.36
1:100 YEAR	TEMPEST LMF 60	250	4.5	1.97	7.81

150mmØ WATERMAIN TABLE - CONNECTION A				
STATION	ELEVATION	TOP OF WATERMAIN	DESCRIPTION	
0+000	77.55	74.16	CONNECTION TO EXISTING 150mmØ WATERMAIN (EX. ELEVATION TBC IN FIELD)	
0+007.0	76.60	74.20	VALVE AND VALVE BOX AT PROPERTY LINE	
0+040.4	77.18	74.78	22.5° HORIZONTAL BEND	
0+040.8	77.18	74.78	11.25° HORIZONTAL BEND	
0+047.0	77.65	74.71	CROSSING PROPOSED STORM SEWER (0.5 CLEARANCE)	
0+063.0	77.80	75.40	CAP 1.0m FROM FOUNDATION WALL	

150mmØ WATERMAIN TABLE - CONNECTION B				
STATION	ELEVATION	TOP OF WATERMAIN	DESCRIPTION	
1+000	77.55	74.25	CONNECTION TO EXISTING 150mmØ WATERMAIN (EX. ELEVATION TBC IN FIELD)	
1+006.2	77.96	75.96	22.5° HORIZONTAL BEND	
1+008.9	77.96	75.96	VALVE AND VALVE BOX AT PROPERTY LINE	
1+042.4	78.92	76.92	45° HORIZONTAL BEND	
1+044.1	78.92	76.92	45° HORIZONTAL BEND	
1+046.7	78.82	76.42	11.25° HORIZONTAL BEND	
1+055.0	78.85	75.85	CROSSING PROPOSED STORM SEWER (0.5 CLEARANCE)	
1+062.4	78.85	75.85	11.25° HORIZONTAL BEND	
1+077.4	78.09	75.09	11.25° HORIZONTAL BEND	
1+082.2	78.00	75.60	22.5° HORIZONTAL BEND	
1+095.0	77.92	75.52	CONNECTION TO PROPOSED 150mmØ WATERMAIN	



EXISTING SERVICING INFORMATION IS APPROXIMATE AND IS TO BE RECONFIRMED IN FIELD.

NOT FOR CONSTRUCTION



1. SITE PLAN APPLICATION		APR 20/18	CJR
No.	REVISION	DATE	BY

SCALE	
1:300	
0 3 6 9 12	

FOR REVIEW ONLY	
DESIGN	AJL
CHECKED	CJR
DRAWN	AJL
CHECKED	CJR
APPROVED	SG



LOCATION 1705 CARLING AVE, CITY OF OTTAWA THE FOUNDERS RESIDENCES WESTBORO	
DRAWING NAME GENERAL PLAN OF SERVICES	
PROJECT NO.	117216-00
REV	REV #1
DRAWING NO.	117216-GP

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.

LEGEND

- PROPERTY LINE
- PROPOSED CURB
- PROPOSED DEPRESSED CURB
- PROPOSED MOUNTABLE CURB
- PROPOSED RETAINING WALL
- PROPOSED VALVE AND VALVE BOX
- PROPOSED CAP
- PROPOSED WATER METER
- PROPOSED REMOTE METER
- PROPOSED SANITARY SERVICE c/w MANHOLE
- PROPOSED STORM SEWER AND MANHOLE
- PROPOSED WATERMAIN
- PROPOSED BUILDING ENTRANCE
- DIRECTION OF FLOW
- PROPOSED LANDSCAPE DRAIN
- PROPOSED CATCH-BASIN MANHOLE
- PROPOSED CATCH-BASIN
- SIAMSESE CONNECTION
- EXISTING UTILITY POLE C/W GUY WIRES
- EXISTING WATERMAIN C/W VALVE & VALVE CHAMBER
- EXISTING HYDRANT C/W VALVE & LEAD
- EXISTING SANITARY MANHOLE & SEWER
- EXISTING STORM MANHOLE & SEWER
- EXISTING CATCH-BASIN
- EXISTING GAS MAIN
- EXISTING OVERHEAD WIRES
- EXISTING BELL LINE

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 ALLOWANCE TO EXISTING CONDITIONS OR BETTER TO THE SATISFACTION OF THE CITY OF OTTAWA.
- REMOVE FROM SITE ALL EXCESS EXCAVATED MATERIAL, ORGANIC MATERIAL AND DEBRIS. EXCAVATE AND REMOVE FROM SITE ANY CONTAMINATED MATERIAL, IF ANY SHALL BE DISPOSED OF AT A LICENSED LANDFILL FACILITY.
- ALL ELEVATIONS ARE GEODETIC. THE SITE BENCHMARK IS THE TOP OF SPINDLE ON THE HYDRANT ON THE NORTH SIDE OF CARLING AVENUE (ELEV = 80.56). REFER TO ANNEX 'O'SULLIVAN VOLLEBERG LTD. TOPOGRAPHIC PLAN OF PART OF LOT 30 CONVESSION 1.
- REFER TO GEOTECHNICAL REPORT PG4423-1, DATED FEB 16, 2018, PREPARED BY PATERSON GROUP INC. 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.
- REFER TO ARCHITECTS AND LANDSCAPE ARCHITECTS DRAWINGS FOR BUILDING AND HARDSURFACE AREAS AND DIMENSIONS.
- REFER TO DEVELOPMENT SERVICING STUDY AND STORMWATER MANAGEMENT REPORT (R-2018-059) PREPARED BY NOVATECH.
- SAW CUT AND KEY GRIND ASPHALT AT ALL ROAD CUTS AND ASPHALT.
- CONTRACTOR TO PROVIDE THE CONSULTANT WITH A GENERAL PLAN OF SERVICES AND GRADING PLAN INDICATING ALL 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, VALVE AND HYDRANT LOCATION, T&M ELEVATIONS, ANY ALIGNMENT CHANGES, AND ALL SURFACE ELEVATION AS-BUILT GRADES.
- REFER TO CITY OF OTTAWA ROAD REINSTATEMENT DETAIL R10 FOR ALL REQUIRED ROAD REINSTATEMENTS.

SERVICE NOTES:

- SPECIFICATIONS:

ITEM	SPEC. No.	REFERENCE
CATCH-BASIN (600x600mm)	705.010	OPSD
STORM / SANITARY MANHOLE (1200B)	701.010	OPSD
STORM / SANITARY MANHOLE (1500B)	701.011	OPSD
CB. FRAME & COVER	400.020	OPSD
STORM / SANITARY MH FRAME	S25	CITY OF OTTAWA
SANITARY COVER	S24	CITY OF OTTAWA
STORM COVER (CLOSED)	S24.1	CITY OF OTTAWA
STORM COVER (OPEN)	S28.1	CITY OF OTTAWA
SEWER TRENCH	S6 & S7	CITY OF OTTAWA
STORM SEWER	PVC DR 35	CITY OF OTTAWA
SANITARY SEWER	PVC DR 35	CITY OF OTTAWA
ELBOW CB	S31	CITY OF OTTAWA
TEE CB	S30	CITY OF OTTAWA
- 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-N-SEAL, PSX, POSITIVE SEAL AND DURASEAL). THE CONCRETE CRADLE FOR THE PIPE CAN BE ELIMINATED.
- DYE TESTING IS TO BE COMPLETED ON ALL SANITARY SERVICES TO CONFIRM PROPER CONNECTION TO THE SANITARY SEWER MAIN.
- STORM MANHOLES AND CBMS ARE TO HAVE 300mm SLUMPS UNLESS OTHERWISE INDICATED.
- CONTRACTOR TO TELETYPE (CCTV) ALL PROPOSED SEWERS, 200mmØ OR GREATER PRIOR TO BASE COURSE ASPHALT, UPON COMPLETION OF CONTRACT, THE CONTRACTOR IS RESPONSIBLE TO FLUSH AND CLEAN ALL SEWERS & APPURTENANCES.

WATERMAIN NOTES:

- SPECIFICATIONS:

ITEM	SPEC. No.	REFERENCE
WATERMAIN TRENCHING	W17	CITY OF OTTAWA
THERMAL INSULATION IN SHALLOW TRENCHES	W22	CITY OF OTTAWA
WATERMAIN CROSSING BELOW SEWER	W25	CITY OF OTTAWA
WATERMAIN	PVC DR 18	CITY OF OTTAWA
- SUPPLY AND CONSTRUCT ALL WATERMANS AND APPURTENANCES IN ACCORDANCE WITH THE CITY OF OTTAWA STANDARDS AND SPECIFICATIONS. EXCAVATION, 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.
- WATERMAIN SHALL BE MINIMUM 2.4m DEPTH BELOW GRADE UNLESS OTHERWISE INDICATED.
- PROVIDE MINIMUM 0.25m CLEARANCE BETWEEN OUTSIDE OF PIPES AT ALL CROSSINGS.
- WATER SERVICE IS TO BE CONSTRUCTED TO WITHIN 1.0m OF FOUNDATION WALL AND CAPPED, UNLESS OTHERWISE INDICATED.