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 UTILITIES PRIOR TO COMMENCING CONSTRUCTION. PROTECT AND ASSUME RESPONSIBILITY FOR ALL EXISTING UTILITIES WHETHER OR NOT SHOWN ON THIS
- 3. OBTAIN ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY OF OTTAWA BEFORE COMMENCING CONSTRUCTION.
- 4. 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
- 5. 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.
- 6. 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.
- 7. ALL DIMENSIONS AND INVERTS MUST BE VERIFIED PRIOR TO CONSTRUCTION. IF THERE IS ANY DISCREPANCY THE CONTRACTOR IS TO NOTIFY THE ENGINEER PROMPTLY.
- 8. ALL ELEVATIONS ARE GEODETIC AND ARE REFERED TO THE CGVD28 GEODETIC DATUM. THE SITE BENCHMARK IS A CUT CROSS LOCATED ON THE BASE OF A LIGHT STANDARD WITHIN THE NEIGHBORING DEALERSHIP PROPERTY TO THE SOUTH BEARINGS ARE DERIVED FROM MTM ZONE 9 (NAD-83, ORIGINAL). REFER TO ANNIS O'SULLIVAN VOLLEBEKK LTD. TOPOGRAPHIC PLAN OF SURVEY OF PART IF THE NORTHERLY LIMIT, THE WESTERLY LIMIT AND PART OF THE SOUTHERLY LIIT OF PIN 14563-3947 BEING PART OF LOT 1 CONCESSION 11, GEOGRAPHIC TOWNSHIP OF CUMBERLAND, CITY OF OTTAWA. DATE
- 9. REFER TO GEOTECHNICAL INVESTIGATION REPORT TITLED PROPOSED MULTI-BUILDING DEVELOPMENT, 4200 INNES ROAD, OTTAWA ONTARIO, PG6528-1, (DATED MARCH 22,2023), PREPARED BY PATERSON GROUP 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.
- 10. REFER TO ARCHITECT'S AND LANDSCAPE ARCHITECT'S DRAWINGS FOR BUILDING AND HARD SURFACE AREAS AND
- 11. REFER TO THE STORMWATER MANAGEMENT REPORT No. R-2023-090, DATED SEPTEMBER 15, 2023 PREPARED BY NOVATECH.
- 12. SAW CUT AND KEYGRIND ASPHALT AT ALL ROAD CUTS AND ASPHALT TIE IN POINTS AS PER CITY OF OTTAWA STANDARDS (R10 AND R25).
- 13. PROVIDE LINE/PARKING PAINTING.
- 14 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 T/G ELEVATIONS, STRUCTURE LOCATIONS, VALVE AND HYDRANT LOCATIONS, T/WM ELEVATIONS AND ANY
- 15. CONTRACTOR IS RESPONSIBLE FOR ALL LAYOUT FOR CONSTRUCTION PURPOSES.

SEWER NOTES:

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

SPECIFICATIONS:		
<u>ITEM</u>	SPEC. No.	<u>REFERENCE</u>
SANITARY/STORM/CATCHBASIN MANHOLE (1200Ø)	701.010	OPSD
STORM MANHOLE (1500Ø)	701.011	OPSD
CATCHBASIN (600x600)	705.010	OPSD
CATCHBASIN FRAME AND 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 < 450mmØ	PVC DR 35(UNLESS SPECIFIED OT	HERWISE)
STORM SEWER >= 450mmØ	CONC 65D (UNLESS SPECIFIED OT	THERWISE)
SANITARY SEWER	PVC DR 35	CITY OF OTTAWA
CATCHBASIN LEAD	PVC DR 35	
CATCHBASIN COVER	S19	CITY OF OTTAWA
ROAD SUBDRAIN (CONTINUOUS)	R1	CITY OF OTTAWA
WATERTIGHT FRAME & COVER	401.030	OPSD
	ITEM SANITARY/STORM/CATCHBASIN MANHOLE (1200Ø) STORM MANHOLE (1500Ø) CATCHBASIN (600x600) CATCHBASIN FRAME AND COVER STORM/SANITARY MH FRAME SANITARY COVER STORM COVER (CLOSED) STORM COVER (OPEN) SEWER TRENCH STORM SEWER < 450mmØ STORM SEWER >= 450mmØ SANITARY SEWER CATCHBASIN LEAD CATCHBASIN COVER ROAD SUBDRAIN (CONTINUOUS)	ITEM

- 2. INSULATE ALL PIPES (SAN/STM) THAT HAVE LESS THAN 2.0m COVER WITH 50mmX1200mm HI-40 INSULATION. PROVIDE 150mm CLEARANCE BETWEEN PIPE AND INSULATION (REFER TO DETAIL)
- 3. SERVICES ARE TO BE CONSTRUCTED TO 1.0m FROM FACE OF BUILDING AT A MINIMUM SLOPE OF 1.0% (2.0% PREFERRED)
- 4. ALL STORM AND SANITARY LATERALS SHALL BE EQUIPED WITH BACKFLOW PREVENTION DEVICES AS PER THE CITY OF OTTAWA STANDARD DETAILS \$14 AND \$14.1 OR \$14.2.
- 5. THE PIPE BEDDING FOR THE SEWER AND WATER PIPES SHOULD CONSIST OF AT LEAST 150 MM OF OPSS GRANULAR. SHOULD BE PLACED FOR BEDDING FOR SEWER OR WATER PIPES. THE MATERIAL SHOULD BE PLACED IN A MAXIMUM 225 MM I FHICK LOOSE LIFTS AND COMPACTED TO A MINIMUM OF 99% OF ITS SPMDD. THE BEDDING MATERIAL SHOULD EXTEND AT LEAST TO THE SPRING LINE OF THE PIPE. THE COVER MATERIAL, WHICH SHOULD CONSIST OF OPSS GRANULAR A, SHOULD EXTEND FROM THE SPRING LINE OF THE PIPE TO AT LEAST 300 MM ABOVE THE OBVERT OF THE PIPE. THE MATERIAL SHOULD BE PLACED IN MAXIMUM 225 MM THICK LIFTS AND COMPACTED TO A MINIMUM OF 99% OF ITS SPMDD. THE USE OF CLEAR CRUSHED STONE AS A BEDDING LAYER SHALL NOT BE PERMITTED.
- 6. WHERE HARD SURFACE AREAS ARE CONSIDERED ABOVE THE TRENCH BACKFILL, THE TRENCH BACKFILL MATERIAL WITHIN THE FROST ZONE (ABOUT 1.8 M BELOW FINISHED GRADE) SHOULD MATCH THE SOILS EXPOSED AT THE TRENCH WALLS TO MINIMIZE DIFFERENTIAL FROST HEAVING. THE TRENCH BACKFILL SHOULD BE PLACED IN MAXIMUM 300 MM THICK LOOSE LIFTS AND COMPACTED TO A MINIMUM OF 95% OF THE MATERIAL'S SPMDD
- 7. 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. 8. ALL STORM MANHOLES MANHOLES WITH PIPE SIZES LESS THAN 900mm ARE TO HAVE 300mm SUMPS UNLESS OTHERWISE

INDICATED, ALL STORM MANHOLES WITH PIPE SIZES 900mm AND LARGER ARE TO BE BENCHED.

- 9. CONTRACTOR TO TELEVISE (CCTV) ALL PROPOSED SEWERS 200mm OR GREATER IN DIAMETER PRIOR TO BASE COURSE ASPHALT TO ENSURE THAT THEY ARE CLEAN AND OPERATIONAL. UPON COMPLETION OF CONTRACT, THE CONTRACTOR IS RESPONSIBLE TO FLUSH AND CLEAN ALL SEWERS & APPURTENANCES AND RE CCTV PRIOR TO ACCEPTANCE. OBTAIN APPROVAL FROM THE CITY'S SEWER OPERATIONS. PROVIDE THE CCTV INSPECTION AND REPORT TO THE ENGINEER FOR
- 10. CONTRACTOR TO PROVIDE THE CONSULTANT WITH A GENERAL PLAN OF SERVICES INDICATING ALL APPLICABLE 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 AND ANY ALIGNMENT CHANGES, ETC.
- 11. 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.
- 12. ALL CATCHBASINS AND CATCHBASIN MANHOLES TO BE PROVIDED WITH MINIMUM 3 METER LONG PERFORATED SUBDRAINS EXTENDING IN TWO DIRECTIONS 300mm BELOW THE SUBGRADE LEVEL. SUBDRAIN IS TO BE PROVIDED AT THE TRANSITIONS BETWEEN DIFFERENT PAVEMENT COMPOSITIONS. THE SUBGRADE SURFACE SHOULD BE SHAPED TO PROMOTE WATER FLOW
- 11. ALL WORKS SHALL BE PERFORMED AS APPLICABLE IN ACCORDANCE WITH CITY OF OTTAWA STANDARD SPECIFICATIONS, AND IN PARTICULAR O.P.S.S. 407 AND 410.

PAVEMENT STRUCTURE:

- HEAVY-TRUCK TRAFFIC AND LOADING AREAS 40mm HL3 OR SUPERPAVE 12.5 50mm HL8 OR SUPERPAVE 19.0 150mm OPSS GRAN "A" CRUSHED STONE 450mm OPSS GRANULAR B TYPE II

- CAR ONLY PARKING AREAS 50mm HL3 OR SUPERPAVE 12.5 150mm OPSS GRAN "A" CRUSHED STONE 300mm OPSS GRAN "B" TYPE II

DAMAGE TO THEM.

- MINIMUM PERFORMANCE GRADED (PG) 58-34 ASPHALT
- SUBGRADE EITHER IN SITU SOIL, BEDROCK OR OPSS GRANULAR TYPE I OR II MATERIAL PLACED OVER IN SITU SOIL OR BEDROCK

WATERMAIN NOTES:

- 1. SUPPLY AND CONSTRUCT ALL WATERMAIN AND APPURTENANCES IN ACCORDANCE WITH THE MOST CURRENT CITY OF OTTAWA STANDARDS AND SPECIFICATIONS.
- SPECIFICATIONS: REFERENCE CITY OF OTTAWA WATERMAIN TRENCHING CITY OF OTTAWA THERMAL INSULATION IN SHALLOW TRENCHES W22 THERMAL INSULATION BY OPEN STRUCTURES W23 CITY OF OTTAWA WATERMAIN CROSSING BELOW SEWER CITY OF OTTAWA WATERMAIN CROSSING ABOVE SEWER W25.2 CITY OF OTTAWA CITY OF OTTAWA HYDRANT WSD-24 VALVE AND VALVE BOX WSD-19 CITY OF OTTAWA WATERMAIN PVC DR 18
- SUPPLY AND CONSTRUCT ALL WATERMAINS AND APPURTENANCES IN ACCORDANCE WITH THE CITY OF OTTAWA STANDARD AND SPECIFICATIONS. EXCAVATION, INSTALLATION, BACKFILL AND RESTORATION OF ALL WATERMAINS 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. ANY WATERMAIN WITH LESS THAN 2.4m COVER TO BE INSULATED PER THE SEWER AND WATERMAIN NOTES AND DETAIL
- PROVIDE MINIMUM CLEARANCE, BETWEEN OUTSIDE OF PIPES, AT ALL CROSSINGS AS PER CITY DETAILS W25 AND W25.2. WATERMAIN MUST HAVE A MINIMUM VERTICAL CLEARANCE OF 0.25m OVER AND 0.50m UNDER SEWERS AND ALL OTHER UTILITIES WHEN CROSSING
- 5. WATER SERVICE IS TO BE CONSTRUCTED TO WITHIN 1.0m OF FOUNDATION WALL AND CAPPED, UNLESS OTHERWISE INDICATED.
- 6. CATHODIC PROTECTION REQUIRED FOR ALL IRON FITTINGS CITY OF OTTAWA STANDARD DETAILS WSD-39, 40, 41, 42, 43 AND
- 8. IF WATERMAIN MUST BE DEFLECTED TO MEET ALIGNMENT, ENSURE THAT THE AMOUNT OF DEFLECTION USED IS LESS THAN HALF THAT RECOMMENDED BY THE MANUFACTURER.

GRADING NOTES

- 1. ALL TOPSOIL, ORGANIC OR DELETERIOUS MATERIAL MUST BE ENTIRELY REMOVED FROM BENEATH THE PROPOSED BUILDING AND PAVED AREAS.
- 2. EXPOSED SUB-GRADES 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. NON-SPECIFIED EXISTING FILL ALONG WITH SITE-EXCAVATED SOIL COULD BE PLACED AS GENERAL LANDSCAPING FILL AND BENEATH EXTERIOR PARKING AREAS WHERE SETTLEMENT OF THE GROUND SURFACE IS OF MINOR CONCERN. THESE MATERIALS SHOULD BE SPREAD IN LIFTS WITH A MAXIMUM THICKNESS OF 300 mm AND COMPACTED BY THE TRACKS OF THE SPREADING EQUIPMENT TO MINIMIZE VOIDS. IF THIS MATERIAL IS TO BE USED TO BUILD UP THE SUBGRADE LEVEL FOR AREAS TO BE PAVED, IT SHOULD BE COMPACTED IN THIN LIFTS TO AT LEAST 95% OF THE MATERIAL'S SPMDD.
- 4. THE PAVEMENT GRANULAR BASE AND SUBBASE SHOULD BE PLACED IN MAXIMUM 300 mm THICK LIFTS AND COMPACTED TO A MINIMUM OF 100% OF THE MATERIAL'S SPMDD USING SUITABLE COMPACTION EQUIPMENT. IF BEDROCK IS ENCOUNTERED AT THE SUBGRADE LEVEL, THE TOTAL THICKNESS OF THE PAVEMENT GRANULAR MATERIALS (BASE AND SUBBASE) COULD BE REDUCED TO 300 MM FOR THE FOLLOWING PAVEMENT STRUCTURES. THE UPPER 300 mm OF THE BEDROCK SURFACE SHOULD BE REVIEWED AND APPROVED BY PATERSON PRIOR TO PLACING THE BASE AND SUBBASE MATERIALS. CARE SHOULD BE EXERCISED TO ENSURE THAT THE BEDROCK SUBGRADE DOES NOT HAVE DEPRESSIONS THAT WILL TRAP THE
- 5. BACKFILL MATERIAL BELOW SIDEWALK AND WALKWAY SUBGRADE AREAS OR OTHER SETTLEMENT SENSITIVE STRUCTURES WHICH ARE NOT ADJACENT TO THE BUILDINGS SHOULD CONSIST OF FREE-DRAINING, NON-FROST SUSCEPTIBLE MATERIAL. THIS MATERIAL SHOULD BE PLACED IN MAXIMUM 300 MM THICK LOOSE LIFTS AND COMPACTED TO AT LEAST 98% OF ITS SPMDD UNDER DRY AND ABOVE FREEZING CONDITIONS.
- 6. IF SOFT SPOTS DEVELOP IN THE SUBGRADE DURING COMPACTION OR DUE TO CONSTRUCTION TRAFFIC, THE AFFECTED AREAS SHOULD BE EXCAVATED AND REPLACED WITH OPSS GRANULAR B TYPE II MATERIAL.
- 7. ALL CURBS SHALL BE BARRIER CURB (150mm) UNLESS OTHERWISE NOTED. REFER TO THE ARCHITECTURAL PLANS FOR
- 8. GRADE AND/OR FILL BEHIND PROPOSED CURB AND BETWEEN BUILDINGS AND CURBS, WHERE REQUIRED TO PROVIDE
- 9. MINIMUM OF 2% GRADE FOR ALL GRASS AREAS UNLESS OTHERWISE NOTED
- 10. ALL GRADES BY CURBS ARE EDGE OF PAVEMENT GRADES UNLESS OTHERWISE INDICATED.
- 11. REFER TO LANDSCAPE PLAN FOR PLANTING AND OTHER LANDSCAPE FEATURE DETAILS.
- 12. CONTRACTOR TO PROVIDE THE CONSULTANT WITH A GRADING PLAN INDICATING THE AS-BUILT ELEVATION OF EVERY

DESIGN GRADE SHOWN ON THIS PLAN. **EROSION AND SEDIMENT CONTROL NOTES:**

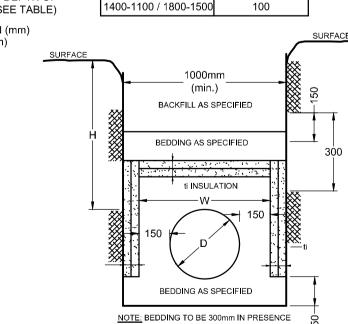
- 1. THE OWNER AGREES TO PREPARE AND IMPLEMENT AN EROSION AND SEDIMENT CONTROL PLAN TO THE SATISFACTION OF THE CITY OF OTTAWA, APPROPRIATE TO THE SITE CONDITIONS, PRIOR TO UNDERTAKING ANY SITE ALTERATIONS (FILLING, GRADING, REMOVAL OF VEGETATION, ETC.) AND DURING ALL PHASES OF SITE PREPARATION AND CONSTRUCTION IN ACCORDANCE WITH THE CURRENT BEST MANAGEMENT PRACTICES FOR EROSION AND SEDIMENT CONTROL SUCH AS BUT NOT LIMITED TO INSTALLING FILTER CLOTHS ACROSS MANHOLE/CATCHBASIN LIDS TO PREVENT SEDIMENTS FROM ENTERING STRUCTURES AND INSTALL AND MAINTAIN A LIGHT DUTY SILT FENCE BARRIER AS REQUIRED.
- 2. THE CONTRACTOR SHALL PLACE FILTER CLOTH UNDER THE CATCHBASIN AND MANHOLE GRATES FOR THE DURATION OF CONSTRUCTION AND WILL REMAIN IN PLACE DURING ALL PHASES OF CONSTRUCTION.
- 3. SILT FENCING FOR ENTIRE PERIMETER OF SITE, SHALL BE UTILIZED TO CONTROL EROSION FROM THE SITE DURING
- 4. THE CONTRACTOR ACKNOWLEDGES THAT FAILURE TO IMPLEMENT EROSION AND SEDIMENT CONTROL MEASURES MAY BE SUBJECT TO PENALTIES IMPOSED BY ANY APPLICABLE REGULATORY AGENCY.

SEWER / WATER

2000-1700 / 2400-2100

SEWER & WATERMAIN INSULATION NOTES:

- 1. INSULATE ALL SEWER PIPES THAT HAVE LESS THAN 2.0m COVER AND ALL WATERMAIN WITH LESS THAN 2.4m OF COVER WITH EXPANDED POLYSTYRENE INSULATION AS PER OPSD
- 2. THE THICKNESS OF INSULATION SHALL BE THE EQUIVALENT OF 25mm FOR EVERY 300mm REDUCTION IN THE REQUIRED DEPTH OF COVER WITH 50mm MINIMUM (SEE TABLE)
- 1700-1400 / 2100-1800 1400-1100 / 1800-1500 T = THICKNESS OF INSULATION (mm) W = WIDTH OF INSULATION (mm) W = D + 300 (1000 min.)D = O.D.OF.PIPE.(mm)



INSULATION DETAIL FOR SHALLOW SEWERS & WATERMAIN

INSULATION

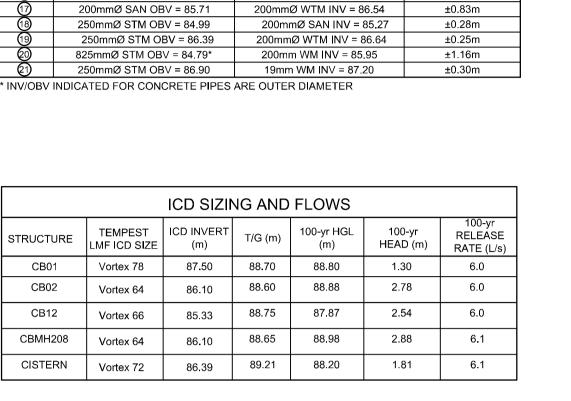
THICKNESS

(mm)

50

75

8.	ISSUED FOR APPROVAL	MAY 02/2024	ARM	SCALE	DESIGN
7.	SOUTH WALL AND HYDRO COORDINATION	APRIL 25/2024	ARM		ARI
6.	BUILDING PERMIT SUBMISSION	MAR 15/2024	ARM	AS SHOWN	CHECKED
5.	REVISED WATER ENTRY	MAR 01/2024	ARM	AS SHOWN	DRAWN
4.	REVISED PER SITE PLAN UPDATE	DEC 18/2023	GJM		
3.	REVISED PER CITY COMMENTS	NOV 8/2023	GJM		ARI CHECKED
2.	REVISED PER CITY COMMENTS	SEPT 15/2023	GJM		
1	ISSUED FOR SITE PLAN APPLICATION	MAY 24/2023	GJM		APPROVED
No.	REVISION	DATE	BY		



PIPE CROSSING TABLE

HIGHER PIPE

200mmØ WM INV = 86.14

200mmØ WTM INV = 86.24

200mmØ WTM INV = 86.15

200mmØ WTM INV = 86.12

200mmØ SAN INV = 84.92

200mmØ WTM INV = 86.15

200mmØ WTM INV = 86.98

200mmØ SAN INV = 85 08

200mmØ WTM INV = 86.33

200mmØ WTM INV = 86.55

200mmØ WTM INV = 86 47

200mmØ SAN INV = 85.36

200mmØ WTM INV = 86 56

CLEARANCE

±2.41m

±0.68m

±1.45m

±0.99m

±0.25m

±0.50m

±1 46m

+0.27m

±1.46m

+0 81m

±1 29m

±0.36m

LOWER PIPE

825mmØ STM OBV = 83.73 *

825mmØ STM OBV = 83.73*

525mmØ STM OBV = 84.70*

200mmØ SAN OBV = 85.13

525mmØ STM OBV =84.68*

200mmØ WTM OBV = 85.84

250mmØ STM OBV = 86.73

250mmØ STM OBV = 84.81

250mmØ STM OBV = 84.87

200mmØ SAN OBV = 85.74

250mmØ STM OBV = 85.18

250mmØ STM OBV = 85.00

STRUCTURE

CB01

CB02

CBMH208

CISTERN

Vortex 64

Vortex 66

Vortex 64

Vortex 72

250mmØ STM OBV = 85.18

525mmØ STM OBV = 84.70*

250mmØ STM OBV = 85.56



JOHN SEVIGNY C.E.T. MANAGER (A), DEVELOPMENT REVIEW EAST PLANNING, DEVELOPMENT & BUILDING SERVICES DEPARTMENT, CITY OF OTTAWA

By sevignyjo at 3:28 pm, May 30, 2024

PROPOSED WATERMAIN (1+000.0)					
T/WM COMMENTS					
86.24 CONNECTION TO EXISTING 300mmØ N	WM				
86.34 CROSS ABOVE 825mmØ STM (±2.41 CLEAR	RANCE)				
86.44 200mmØ VALVE AND VALVE BOX					
86.44 CROSS ABOVE 250mmØ STM (±0.68 CLEAR	RANCE)				
86.40 200mmØ VALVE AND VALVE BOX					
86.33 200x200mm TEE					
86.32 CROSS ABOVE 200mmØ STM (±0.99 CLEAR	RANCE)				
86.34 CROSS ABOVE 525mmØ STM (±1.45 CLEAR	RANCE)				
86.39 200x200mm TEE CONNECTION BUILDING S	SERVICE				
CROSS BELOW 375mmØ STM AS PER CI OTTAWA STANDARD W25 (±0.50 CLEARA					
86.37 45° HORIZONTAL BEND					
86.49 45° HORIZONTAL BEND					
86.54 200x150mm TEE CONNECTION TO HYDR	RANT				
CROSS ABOVE 250mmØ STM AS PER CI OTTAWA STANDARD W25 (±0.25 CLEARA					
86.57 200mmØ VALVE AND VALVE BOX					
86.55 200x200mm TEE CONNECTION BUILDING S	SERVICE				
86.70 200x150mm TEE CONNECTION TO HYDR	RANT				
86.75 CROSS ABOVE 200mmØ SAN (±0.81 CLEAR	RANCE)				
86.67 CROSS UNDER 200mmØ STM (±1.29 CLEAR	LEARANCE)				
86.59 45° HORIZONTAL BEND					
86.71 45° HORIZONTAL BEND					
86.60 200x200mm TEE CONNECTION BUILDING S	SERVICE				
86.76 CROSS ABOVE 250mmØ STM (±1.38 CLEAR	RANCE)				
86.74 CROSS ABOVE 200mmØ SAN (±0.80 CLEAR	RANCE)				
86.90 200x200mm TEE					
86.89 200mmØ VALVE AND VALVE BOX					
86.15 CROSS ABOVE 825mmØ (±1.16 CLEARA	NCE)				
86.33 DMA CHAMBER PER CITY DETAIL W	/3				
86.19 CONNECTION TO EXISTING 300mmØ \	WM				

PROPOSED WATERMAIN (2+000.0)							
STATION	SURFACE ELEVATION	T/WM ELEVATION	COMMENTS				
2+000.0	88.73	86.33	200x200mm TEE				
2+003.5	88.79	86.39	200mmØ VALVE AND VALVE BOX				
2+005.0	88.81	86.41	200x150mm TEE CONNECTION TO HYDRANT				
2+036.2	88.93	86.53	CROSS ABOVE 250mmØ STM ±1.46 CLEARANCE)				
2+037.6	88.89	86.49	CROSS ABOVE 200mmØ STM (±0.87 CLEARANCE)				
2+063.0	89.08	86.68	200x200mm TEE CONNECTION BUILDING SERVICE				
2+068.0	89.10	86.84	CROSS ABOVE 250mmØ STM AS PER CITY OF OTTAWA STANDARD W25 (±0.25 CLEARANCE)				
2+080.9	89.30	86.90	200mmØ VALVE AND VALVE BOX				
2+082.9	89.30	86.90	200x200mm TEE				

		PRO	POSED WA	ATERMAIN (3+000.0)
	STATION SURFACE ELEVATION T/WM ELEVATION 3+000.0 89.08 86.68 3+006.0 89.19 86.71		.,	COMMENTS
			86.68	200x200mm TEE
			86.71	200mmØ VALVE AND VALVE BOX
	3+009.0	89.26	86.79	BUILDING CAP

PROPOSED WATERMAIN (4+000.0)						
STATION SURFACE T/WM ELEVATION			COMMENTS			
4+000.0 88.79 86.39		86.39	200x200mm TEE			
4+012.4	4+012.4 89.07 86.67		200mmØ VALVE AND VALVE BOX			
4+019.6	89.25	86.85	BUILDING CAP			

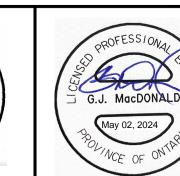
	PRO	POSED WA	ATERMAIN (5+000.0)
STATION SURFACE T/WM ELEVATION			COMMENTS
5+000.0 89.00 86.60		86.60	200x200mm TEE
5+001.0	5+001.0 89.16 86.62		200mmØ VALVE AND VALVE BOX
5+003.0	89.25	86.75	BUILDING CAP

PROPOSED WATERMAIN (6+000.0)					
STATION	SURFACE ELEVATION	T/WM ELEVATION	COMMENTS		
6+000.0	88.95	86.55	200x200mm TEE		
6+011.8	6+011.8 89.34 86.80		200mmØ VALVE AND VALVE BOX		
6+013.9	89.35	86.90	BUILDING CAP		

THE POSITION OF ALL POLE LINES, CONDUITS, WATERMAINS, 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

8.	ISSUED FOR APPROVAL	MAY 02/2024	ARM	SCALE	DESIGN
7.	SOUTH WALL AND HYDRO COORDINATION	APRIL 25/2024	ARM		ARM/CJF
6.	BUILDING PERMIT SUBMISSION	MAR 15/2024	ARM	A C CLIOVANI	CHECKED
5.	REVISED WATER ENTRY	MAR 01/2024	ARM	AS SHOWN	DRAWN ARM
4.	REVISED PER SITE PLAN UPDATE	DEC 18/2023	GJM		
3.	REVISED PER CITY COMMENTS	NOV 8/2023	GJM		ARM/CJF CHECKED
2.	REVISED PER CITY COMMENTS	SEPT 15/2023	GJM		ARM
1	ISSUED FOR SITE PLAN APPLICATION	MAY 24/2023	GJM		APPROVED
No.	REVISION	DATE	BY		GJM
		·		·	·







Suite 200, 240 Michael Cowpland Drive Ottawa, Ontario, Canada K2M 1P6 (613) 254-9643

4200 INNES ROAD, CITY OF OTTAWA TRINTIY APARTMENTS DRAWING NAME

NOTES AND DETAILS

122179 122179-ND

PLAN No. 18993