## **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 DRAWING.
- 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 CO-INSURED. 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 REFERRED TO THE CGVD28 GEODETIC DATUM. BASE MAPPING IS REFERANCED TO THE MTM
- ZONE 9 NAD-83 (ORIGINAL) DATUM. THE SITES BENCHMARKS ARE AT THE TOP OF THE SPINDLE FIRE HYDRANTS, SITE BENCHMARK #1 IS OUTSIDE THE SOUTH-EAST (GEORGE STREET) CORNER OF THE SITE FIRE HYDRANT SPINDLE T/G=62.03. SITE BENCHMARK #2 IS OUTSIDE THE NORTH-EAST (YORK STREET) CORNER OF THE SITE FIRE HYDRANT SPINDLE T/G=60.07.
- 9. REFER TO GEOTECHNICAL REPORT (No. PG2733-3, REV.5, DATED OCTOBER 29,2024), 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
- 10. REFER TO ARCHITECT'S AND LANDSCAPE ARCHITECT'S DRAWINGS FOR BUILDING AND HARDSURFACE AREAS AND DIMENSIONS.
- 11. REFER TO SERVICING AND STORMWATER MANAGEMENT REPORT (R-2023-103) PREPARED BY NOVATECH ENGINEERING CONSULTANTS
- 12. SAW CUT AND KEY GRIND ASPHALT AT ALL ROAD CUTS AND ASPHALT TIE IN POINTS AS PER CITY OF OTTAWA STANDARDS (R10).
- 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 ALIGNMENT CHANGES, ETC.
- 15. ALL MATERIALS AND CONSTRUCTION METHODS SHALL BE IN ACCORDANCE WITH THE CITY OF OTTAWA STANDARDS AND SPECIFICATIONS AND ONTARIO PROVINCIAL STANDARDS AND SPECIFICATIONS. ONTARIO PROVINCIAL STANDARDS WILL APPLY
- 16. CONTRACTOR IS RESPONSIBLE FOR ALL LAYOUT FOR CONSTRUCTION PURPOSES.

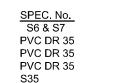
## **SEWER NOTES:**

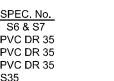
1.	SPECIFICATIONS:	
	ITEM	
	SEWER TRENCH	
	STORM SEWER	
	SANITARY SEWER	
	CATCHBASIN LEAD	

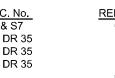
INSULATION FOR SHALLOW SEWERS

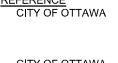
WHERE NO CITY STANDARDS ARE AVAILABLE.

13. PROVIDE LINE/PARKING PAINTING.









- 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% IS PREFERRED).
- 4. SEWER SERVICE CONNECTIONS PER CITY OF OTTAWA DETAILS \$11 AND \$11.1.
- 5. A MINIMUM OF 150 mm OPSS GRANULAR A SHOULD BE PLACED FOR BEDDING FOR SEWER OR WATER PIPES WHEN PLACED ON A SOIL SUBGRADE. THE BEDDING SHOULD EXTEND TO THE SPRING LINE OF THE PIPE. COVER MATERIAL, FROM THE SPRING LINE TO A MINIMUM OF 300 mm ABOVE THE OBVERT OF THE PIPE, SHOULD CONSIST OF OPSS GRANULAR A (CONCRETE OR PSM PVC PIPES) OR SAND (CONCRETE PIPE). THE BEDDING AND COVER MATERIALS SHOULD BE PLACED IN MAXIMUM 225 MM THICK LIFTS AND COMPACTED TO 98% OF THE SPMDD.
- 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) AND ABOVE THE COVER MATERIAL SHOULD MATCH THE SOILS EXPOSED AT THE TRENCH WALLS TO MINIMIZE DIFFERENTIAL FROST HEAVING. THE TRENCH BACKFILL SHOULD BE PLACED IN MAXIMUM 225 MM THICK LOOSE LIFTS AND COMPACTED TO A MINIMUM OF 98% OF THE MATERIAL'S SPMDD. ALL COBBLES LARGER THAN 200 MM IN THEIR LONGEST DIRECTION SHOULD BE SEGREGATED FROM RE-USE AS TRENCH BACKFILL.
- 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. 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 IAIN. THE FIELD TESTS SHALL BE  $\,$  PERFORMED IN THE PRESENCE OF A CERTIFIED PROFESSIONAL ENGINEER  $\,$  WHO SHALL SUBMIT A CERTIFIED COPY OF THE TEST RESULTS.
- 9. STORM MANHOLES AND CBMHS ARE TO HAVE 300mm SUMPS UNLESS OTHERWISE INDICATED.
- 10. CONTRACTOR TO TELEVISE (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.

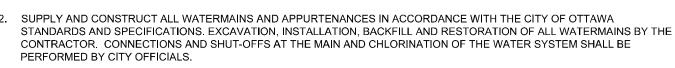
## **WATERMAIN NOTES:**

SPECIFICATIONS:







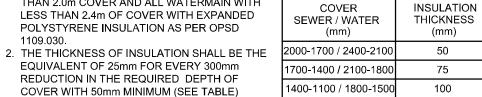


- 3. WATERMAIN SHALL BE MINIMUM 2.4m DEPTH BELOW GRADE UNLESS OTHERWISE INDICATED. ANY WATERMAIN WITH LESS THAN 2.4m COVER TO BE INSULATED PER THE SHOWN DETAIL.
- 4. PROVIDE MINIMUM 0.25m ABOVE, 0.5m IF BELOW, CLEARANCE BETWEEN OUTSIDE OF PIPES AT ALL CROSSINGS PER CITY OF OTTAWA STANDARDS W25/W25,2
- 5. WATER SERVICE IS TO BE CONSTRUCTED TO WITHIN 1.0m OF FOUNDATION WALL AND CAPPED, UNLESS OTHERWISE
- 6. CATHODIC PROTECTION REQUIRED FOR ALL IRON FITTINGS CITY OF OTTAWA STANDARD DETAILS W-39, 40, 41, 42, 43 AND 44. 7. PROVIDE THERMAL INSULATION FOR WATERMAIN AT OPEN STRUCTURES PER CITY OF OTTAWA STANDARD DETAIL W-23.
- 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.

## **SEWER & WATERMAIN INSULATION NOTES:**

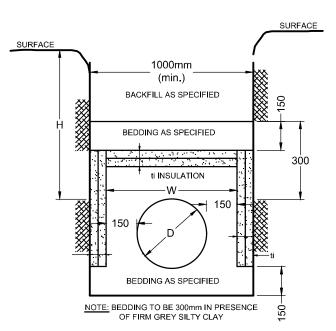
	PLANEIL & ANY LIVINIVIN 11420F
1	INSULATE ALL SEWER PIPES THAT HAVE
١.	THAN 2.0m COVER AND ALL WATERMAIN
	LESS THAN 2.4m OF COVER WITH EXPANI
	LESS THAN 2.4III OF COVER WITH EXPAINE

WITH POLYSTYRENE INSULATION AS PER OPSD



T = THICKNESS OF INSULATION (mm) W = WIDTH OF INSULATION (mm) W = D + 300 (1000 min.)

 $D = O.D OF PIPE (mm)^{\prime}$ 



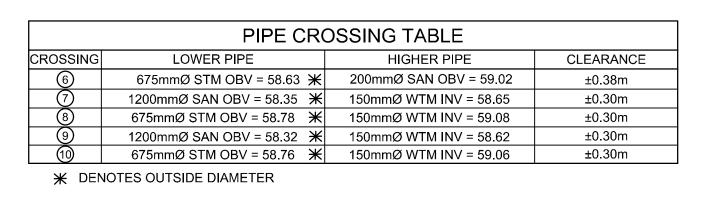
**INSULATION DETAIL FOR SHALLOW SEWERS & WATERMAIN** 

	PROP	OSED WATI	ER SERVICE (3+000.0)
STATION	SURFACE ELEVATION	T/WM ELEVATION	COMMENTS
3+000.0	60.90	58.50*	CONNECTION TO EXISTING 200mmØ SERVICE
3+004.9	60.65	58.65	CROSS ABOVE 1200mm SAN AS PER CITY OF OTTAWA DETAIL W25.2 ( CLEARANCE =±0.30m)
3+007.8	60.70	59.08	CROSS ABOVE 675mm STM AS PER CITY OF OTTAWA DETAIL W25.2 ( CLEARANCE =±0.30m)
3+023.0	60.16	57.76	V&VB
3+024.0	61.26	58.54	CAP SERVICE 1.0m FROM THE FOUNDATION WALI
	PROP	OSED WATI	ER SERVICE (4+000.0)
STATION	SURFACE ELEVATION	T/WM ELEVATION	COMMENTS
4+000.0	60.90	58.50*	CONNECTION TO EXISTING 200mmØ SERVICE
4+004.8	60.65	58.62	CROSS ABOVE 1200mm SAN AS PER CITY OF OTTAWA DETAIL W25.2 ( CLEARANCE =±0.30m)
4+007.8	60.70	59.06	CROSS ABOVE 675mm STM AS PER CITY OF OTTAWA DETAIL W25.2 ( CLEARANCE =±0.30m)

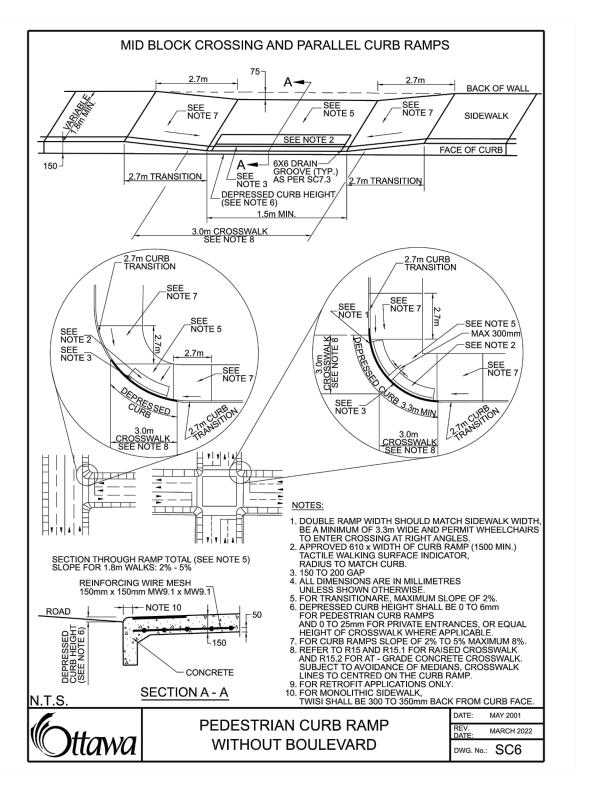
<sup>\*</sup> CONTRACTOR TO CONFIRM THE ELEVATION OF THE EXISTING WATER STUB AND NOTIFY THE

CAP SERVICE 1.0m FROM THE FOUNDATION WALL

57.75



ENGINEER IF DIFFERENT			

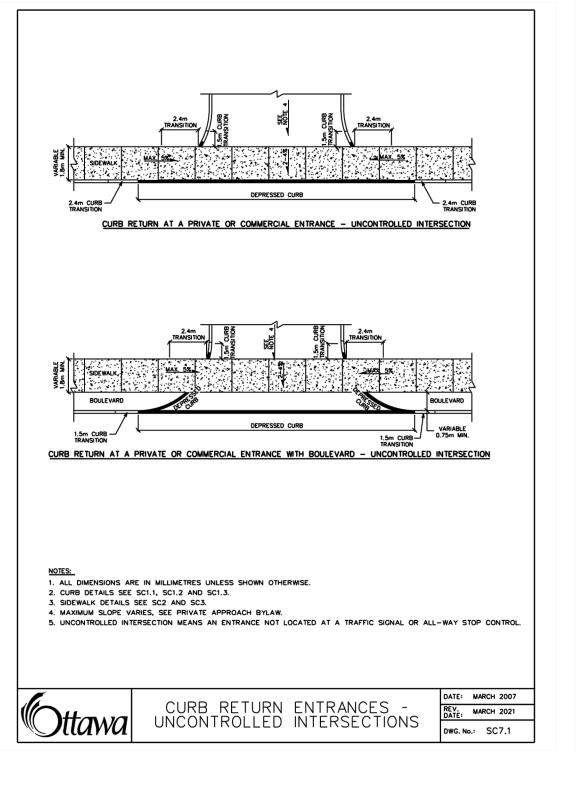


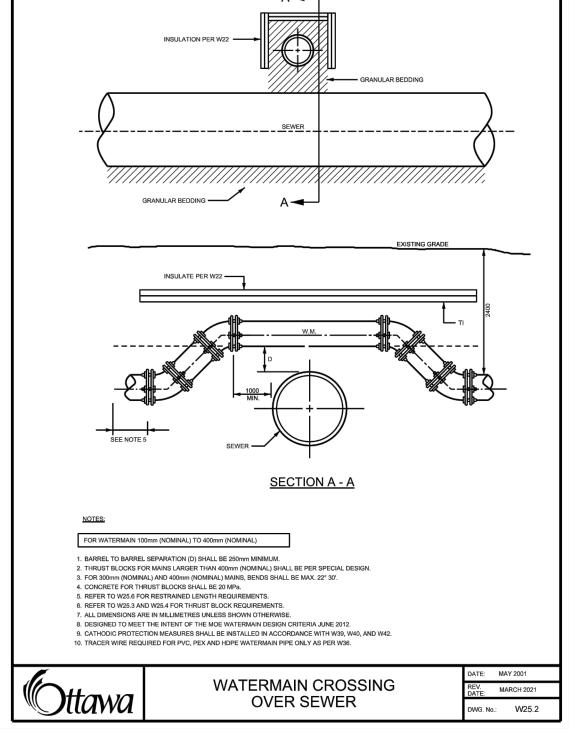
4+023.0

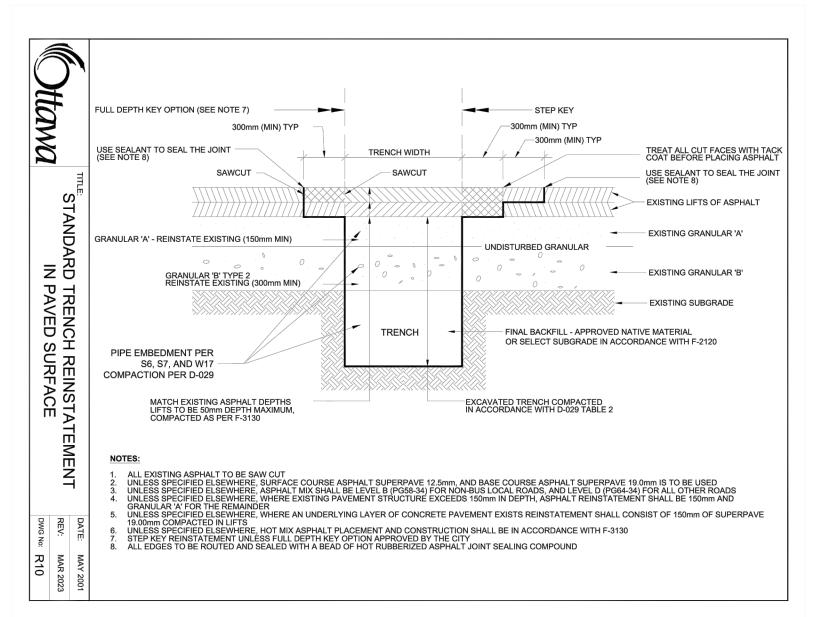
4+024.0

60.15

61.26







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 JTILITIES 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.

**CLARIDGE HOMES** 

CLARIDGE HOMES

OTTAWA , ONTARIO

K1S 4N7.

505 PRESTON STREET,

NOT FOR CONSTRUCTION

				SCALE	DESIGN
				AS SHOWN	ARM/CJF CHECKED ARM DRAWN
3.	SUPPORT SPC SUBMISSION	MAR 07/25	GJM		ARM/CJF
2.	MUNICIPAL CONSENT APPLICATION	MAY 06/24	GJM	AS SHOWN	ARM
1. No	PART LOT CONTROL APPLICATION	FEB 01/24	GJM		APPROVED
	REVISION	DATE	BY		GJM



**FOR REVIEW ONLY** 

(613) 254-5867

LOCATION CITY OF OTTAWA 110-116 YORK STREET DRAWING NAME NOTES AND DETAILS

REV # 3 112142-ND-Y

112142