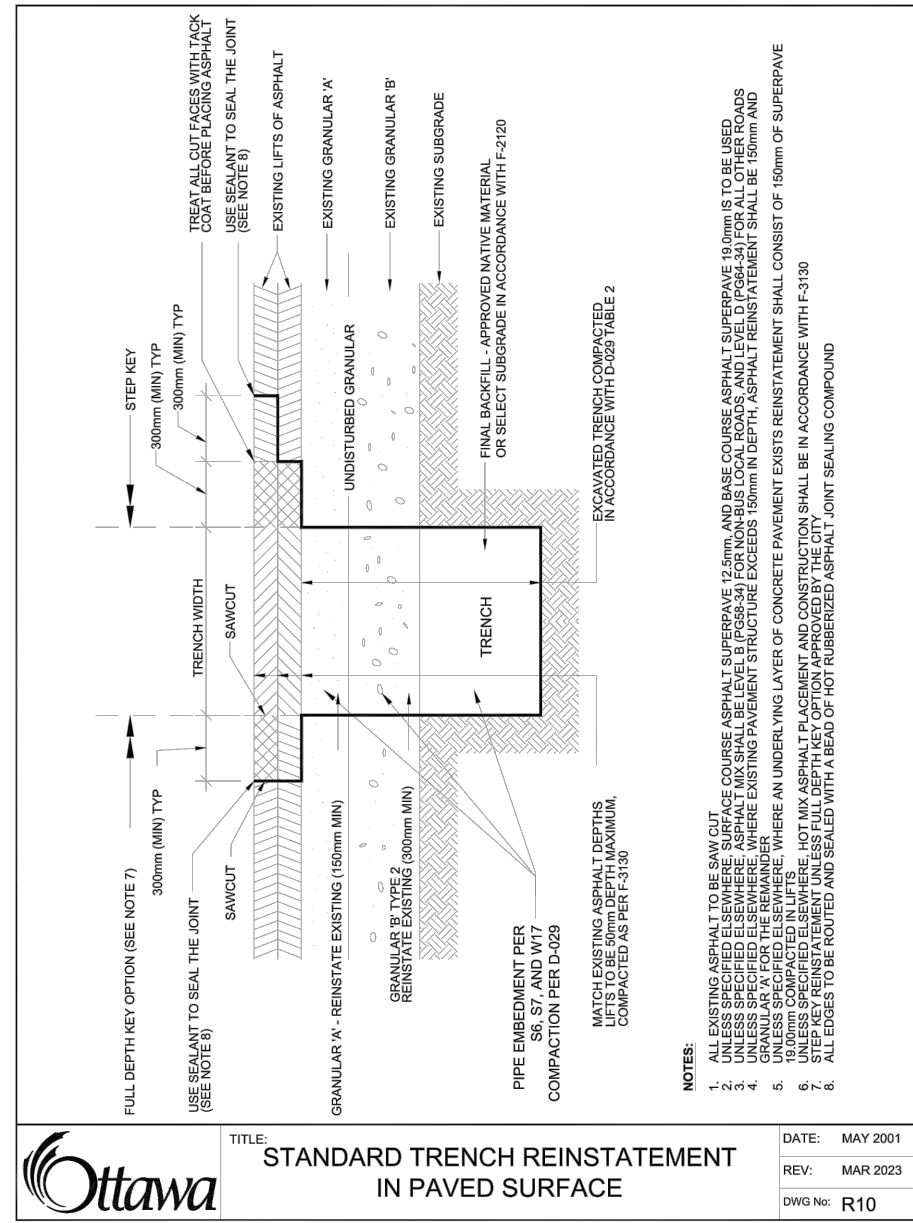
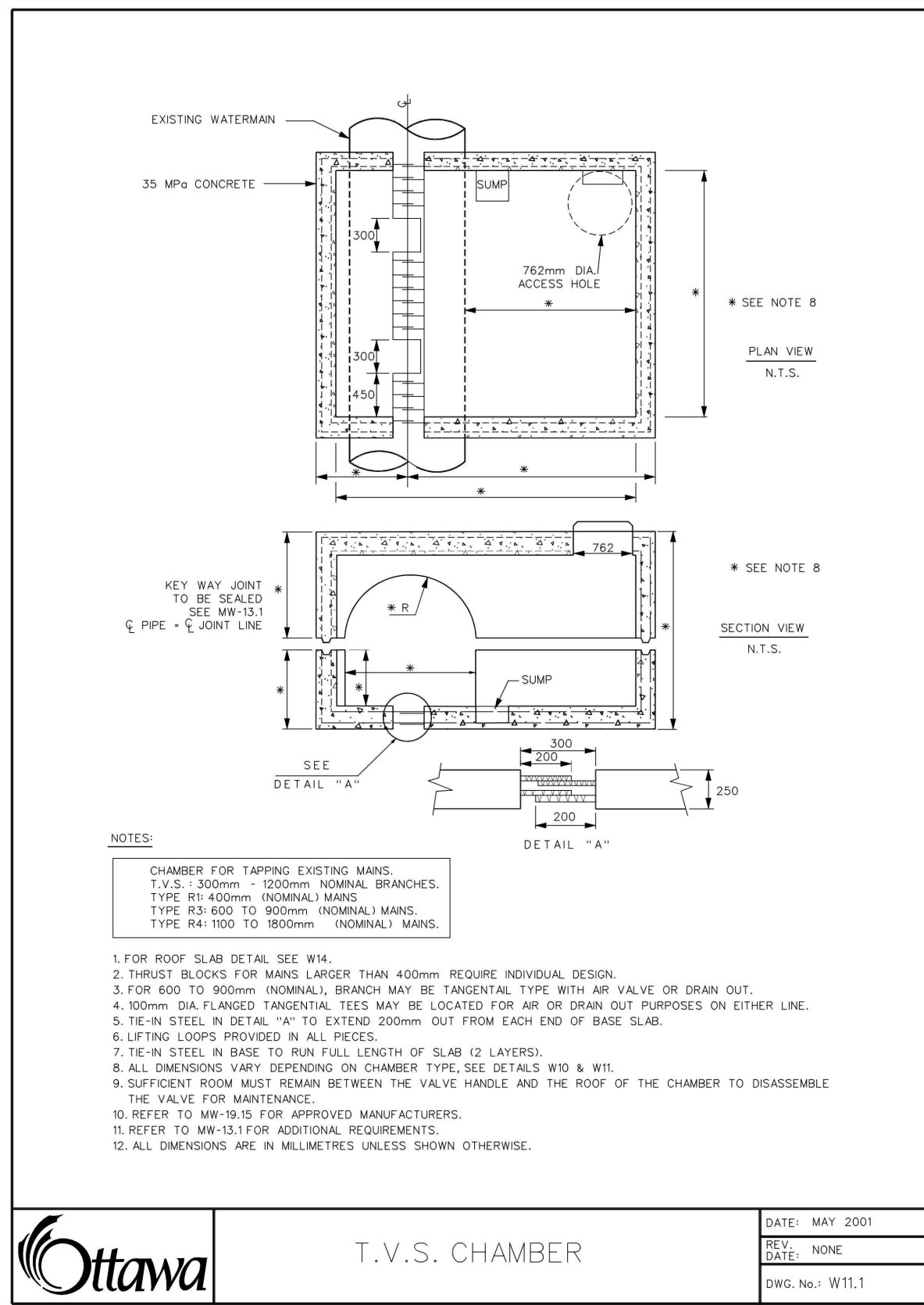
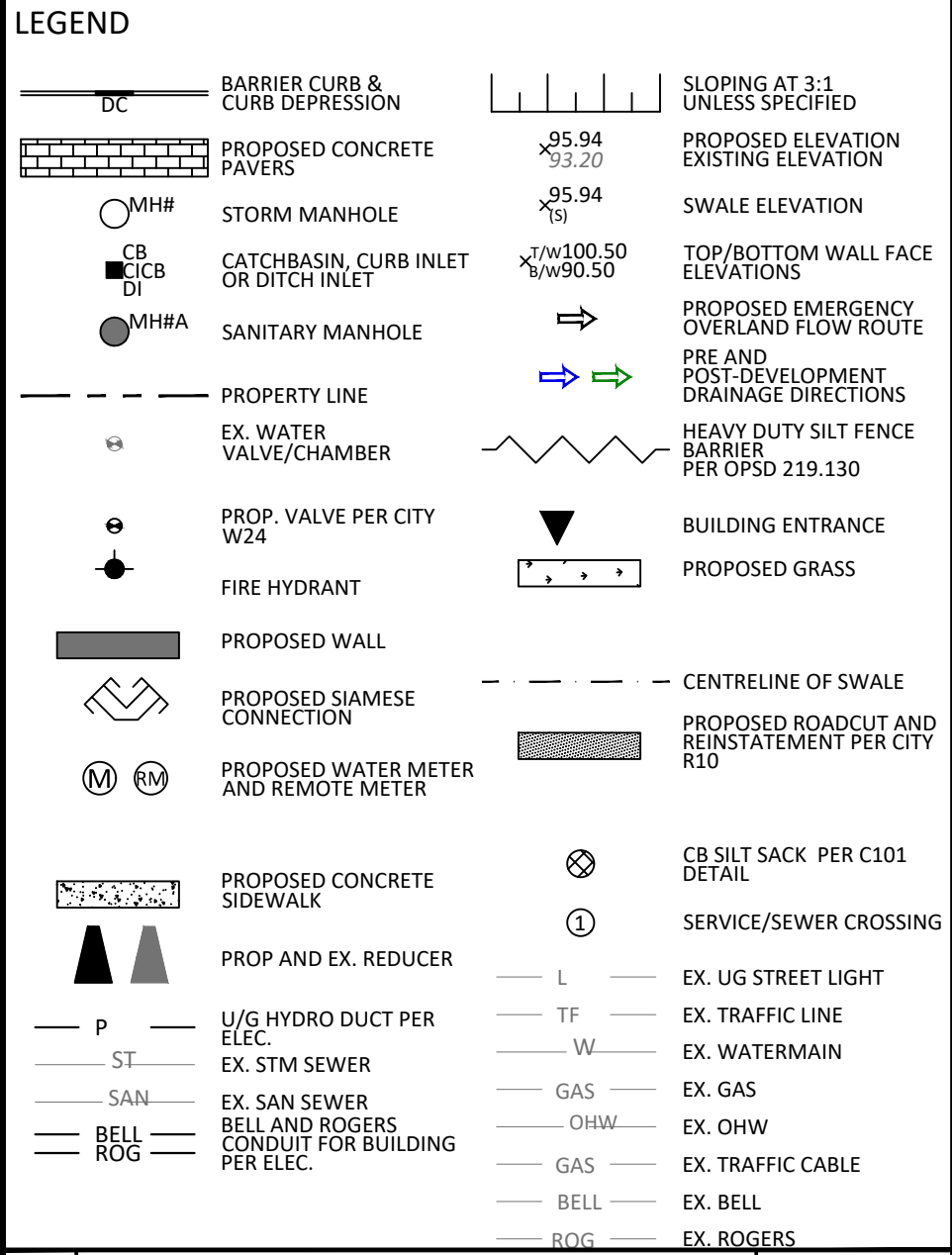


MUNICIPAL SEWER/WATERMAIN RELOCATION NOTES:

- CONSTRUCT ALL SEWERS, MANHOLES AND APPURTENANCES IN ACCORDANCE WITH OPSD STANDARDS AND SPECIFICATIONS, AS WELL AS CITY.
- SEWER TRENCHING AND BEDDING SHALL CONFORM TO OPSD 802.010 AND 802.013 UNLESS NOTED OTHERWISE.
- BEDDING SHALL BE A MINIMUM 150mm OF GRANULAR "A", COMPACTED TO MINIMUM 98% DENSITY PROCTOR DRY DENSITY (SQUID). CLEAR STONE BEDDING SHALL NOT BE PERMITTED; BEDDING THICKNESS TO BE INCREASED TO 300mm IF PLACED ON FRAME OR CURB.
- SUB-BEDDING, IF REQUIRED, SHALL CONSIST OF 450mm OF COMPACTED GRANULAR "B" TYPE 1.
- SEWER LINES SHALL BE COVERED WITH AT LEAST 600mm OF GRANULAR "A" OR GRANULAR "B" TYPE 1.
- TO MINIMIZE DIFFERENTIAL FROOT HEAVING, TRENCH BACKFILL (FROM PAVEMENT SUBGRADE TO 1.8 METRES BELOW FINISHED GRADE) SHALL MATCH EXISTING SOIL CONDITIONS. THE TRENCH BACKFILL SHALL BE COMPACTED IN MAXIMUM 225mm THICK LOOSE LIFTS AND COMPACTED TO 98% OF THE MATERIAL'S SPMD.
- THE CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION PHASING AND LAYOUT. A PHASE PLAN SHALL BE ESTABLISHED FOR THE REALIGNMENT OF THE PROPOSED WATER AND SANITARY SERVICES TO ENSURE CONTINUAL SERVICE FOR THE OTHER USER.
- SEWERS AND CONNECTIONS 200mm-973mm/D shall BE PVC SD-35. SEWER CONNECTIONS 450mm/D AND LARGER TO BE CONCRETE. BEDDING TO BE TYPE "B" EXCEPT AT RISERS, UNLESS NOTED OTHERWISE. CONCRETE SEWER CLASS IN ACCORDANCE WITH OPSD 807.010 & 807.013, AS APPLICABLE.
- CONTRACTOR TO CCTV SANITARY SEWER UPSTREAM AND DOWNSTREAM OF PROPOSED TIE IN LOCATIONS PRIOR TO AND AFTER PROPOSED WORKS.
- PROPOSED SANITARY MAINTENANCE LOCATIONS TO BE BENCHED PER OPSD 701.021.
- SEWERS AND WATERMAIN LINES LOCATED PARALLEL TO EACH OTHER SHOULD BE CONSTRUCTED IN SEPARATE TRENCHES. WHEN IT IS IMPOSSIBLE OR NOT PRACTICAL TO MAINTAIN VERTICAL AND/OR HORIZONTAL SEPARATION, THEN DEEP STANDARD LIDS SHALL BE USED. ALL SEWERS SHOULD BE CONSTRUCTED WITH MAINLINE QUALITY PIPE, PRESSURE TESTED IN PLACE AT A PRESSURE OF 300 KPA (50 psi) WITHOUT LEAKAGE USING THE TESTING METHODOLOGY IN ONTARIO PROVINCIAL STANDARD SPECIFICATION 701 (OPS) 701.03 OR THE OPS.
- WHERE SANITARY SEWERS ARE 0.6M BELOW GROUNDWATER TABLE, SANITARY MAINTENANCE HOLES SHALL BE INSTALLED AT REGULAR INTERVALS ALONG THE PIPELINE PLACED EXTERNALLY ABOVE ALL PRECAST JOINTS, INCLUDING JOINTS BELOW THE MAINTENANCE FLANGE AND COVER, WITH A MINIMUM 300MM WIDE STRIP.
- THE LOCATION OF EXISTING UTILITIES ARE TO BE FIELD VERIFIED PRIOR TO CONSTRUCTION.
- INSTALLATION TO BE IN ACCORDANCE WITH CURRENT CODES AND STANDARDS OF APPROVAL AGENCIES HYDRO ONE, BILL, ROGERS AND THE CITY OF TORONTO.
- CONSTRUCT ALL SEWERS AND APPURTENANCES IN ACCORDANCE WITH OPSD STANDARDS AND SPECIFICATIONS, AS WELL AS CITY STANDARDS.
- WATERMAINS AND/OR WATER SERVICES ARE TO HAVE A MINIMUM COVER OF 2.4m. INSULATE ALL WATERMAINS AND SERVICES THAT HAVE LESS THAN 2.4m COVER WITH Thermal Insulation AS PER CITY DETAIL W22
- IF THE WATERMAIN MUST BE DEFLECTED TO MEET ALIGNMENT, SENSITIVE THAT THE AMOUNT OF DEFLECTION IS EQUAL TO OR LESS THAN THAT WHICH IS RECOMMENDED BY THE MANUFACTURER.
- THERMAL INSULATION OF WATERMAINS AT OPEN STRUCTURES AS PER CITY DETAIL W23.
- VALVES TO BE OPERATED BY CITY STAFF ONLY.
- NO CONNECTION TO EXISTING WATER NETWORK SHALL BE COMPLETED UNTIL A WATER PERMIT IS OBTAINED FROM THE CITY. TO BE PRESENT FOR WATER CONNECTION. CONNECTION, EXCAVATION, BACKFILLING AND REINSTATEMENT TO BE COMPLETED BY CONTRACTOR.
- IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PERFORM ANY WATERMAIN CONNECTION(S) REMOVED OR RELOCATED IN THE PROJECT CITY DETAIL W23. FOR CROSSING UNDER POWER, ADEQUATE STRUCTURAL SUPPORT FOR THE SEWERS IS REQUIRED TO PREVENT EXCESSIVE DEFLECTION OF JOINTS AND INTERFERE WITH CLOSURE. THE CONTRACTOR SHALL BE CERTIFIED AT THE POINT OF CROSSING SO THAT THE JOINTS WILL BE EQUIVALENT AND AS FAR AS POSSIBLE FROM THE SEWER.
- CONCRETE THRUST BLOCKS TO CONFORM TO OPSD 1103.010 AND OPSD 1103.020.
- ALL WATERMAIN TO BE CLASS 150 DR-18 OR APPROVED EQUIVALENT.
- ALL WATERMAIN TO BE CLASS 150 DR-18 OR APPROVED TRACER WIRE.
- AS PER CITY GUIDELINE, THE MINIMUM VERTICAL CLEARANCE BETWEEN WATERMAIN AND SEWER/UTILITY IS 0.25m FOR CROSSING OVER THE SEWER, AS PER CITY DETAIL W23.2 FOR CROSSING UNDER SEWER, THE MINIMUM VERTICAL CLEARANCE IN THE PROJECT CITY DETAIL W23. FOR CROSSING UNDER POWER, ADEQUATE STRUCTURAL SUPPORT FOR THE SEWERS IS REQUIRED TO PREVENT EXCESSIVE DEFLECTION OF JOINTS AND INTERFERE WITH CLOSURE. THE CONTRACTOR SHALL BE CERTIFIED AT THE POINT OF CROSSING SO THAT THE JOINTS WILL BE EQUIVALENT AND AS FAR AS POSSIBLE FROM THE SEWER.



1	ISSUED FOR SPC AND MUNICIPAL CONSENT	SEPT 05, 2024
No.	Revisions	Date
Check and verify all dimensions before proceeding with the work		Do not scale drawings
<p>SCALE 1 : 200</p>		
		115 Walgreen Road, R.R.3 Carp, ON K0A 1L0 Tel: 613-836-2184 Fax: 613-836-3742 www.egis-group.com
Client: THEBERGE DEVELOPMENTS LTD 1600 LAPERRIERE AVE OTTAWA, ON K1Z 8P5		
Project: 3030 ST. JOSEPH BOULEVARD OTTAWA ON		
Drawing Title: PLAN & PROFILE STA. 3+000 TO 3+020		
Scale: 1:200	Project Number: CCO-24-0142	
Drawn By: RRR		
Checked By: AM		
Designed By: RRR		
		C203