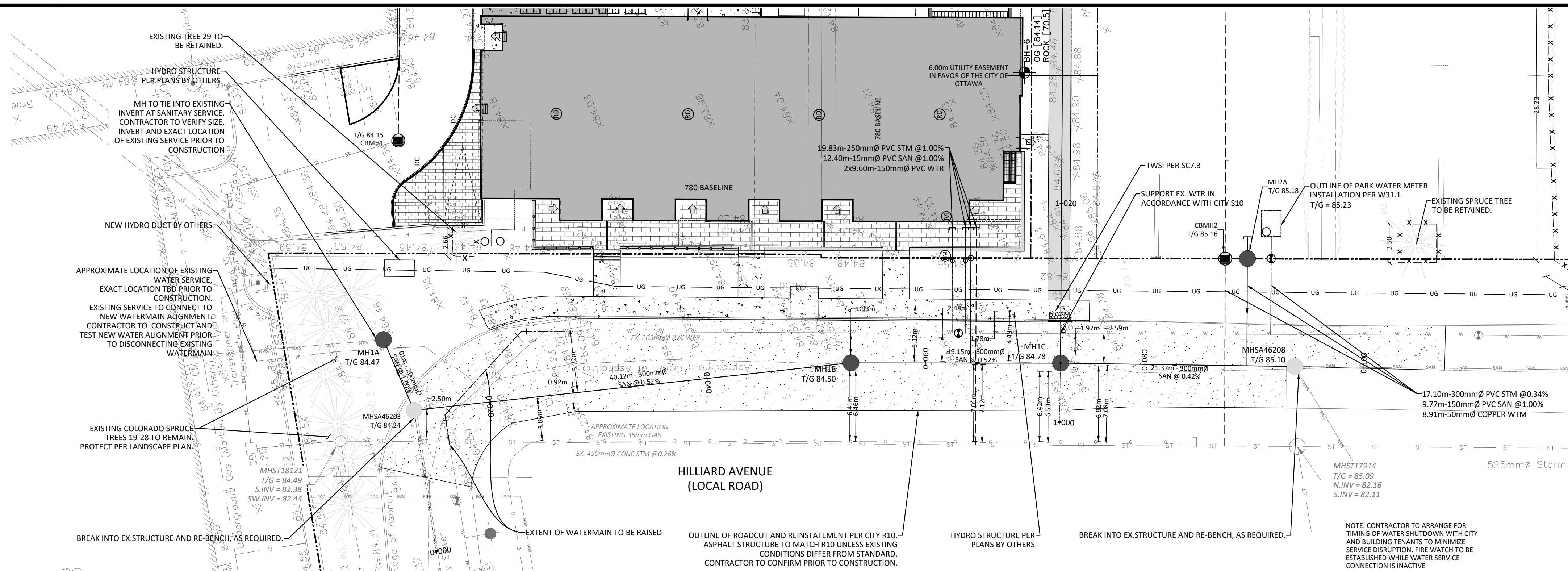


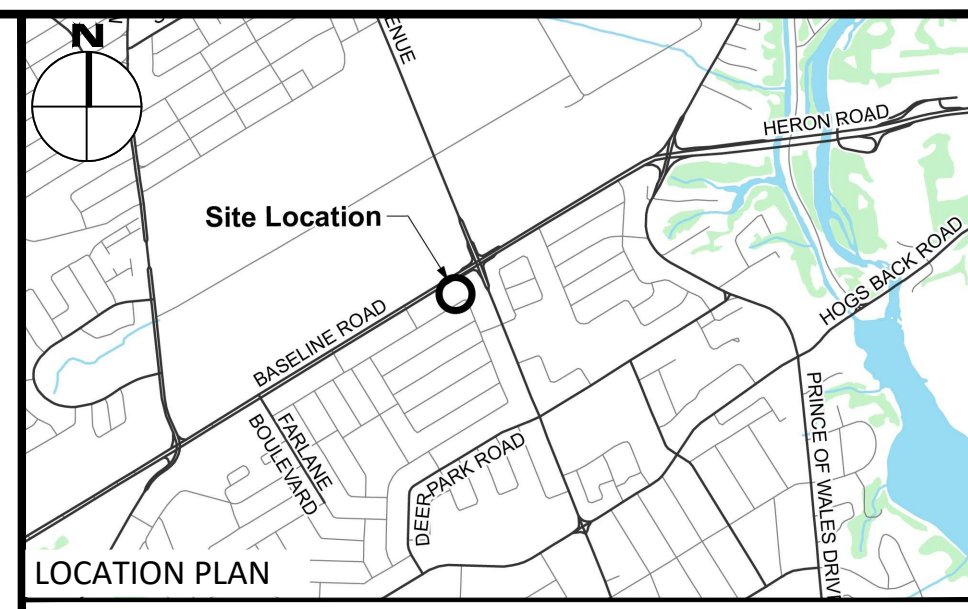
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LAST MODIFIED: Wednesday, April 23, 2025 1:55:58 PM  
LAST USER: jtheberge



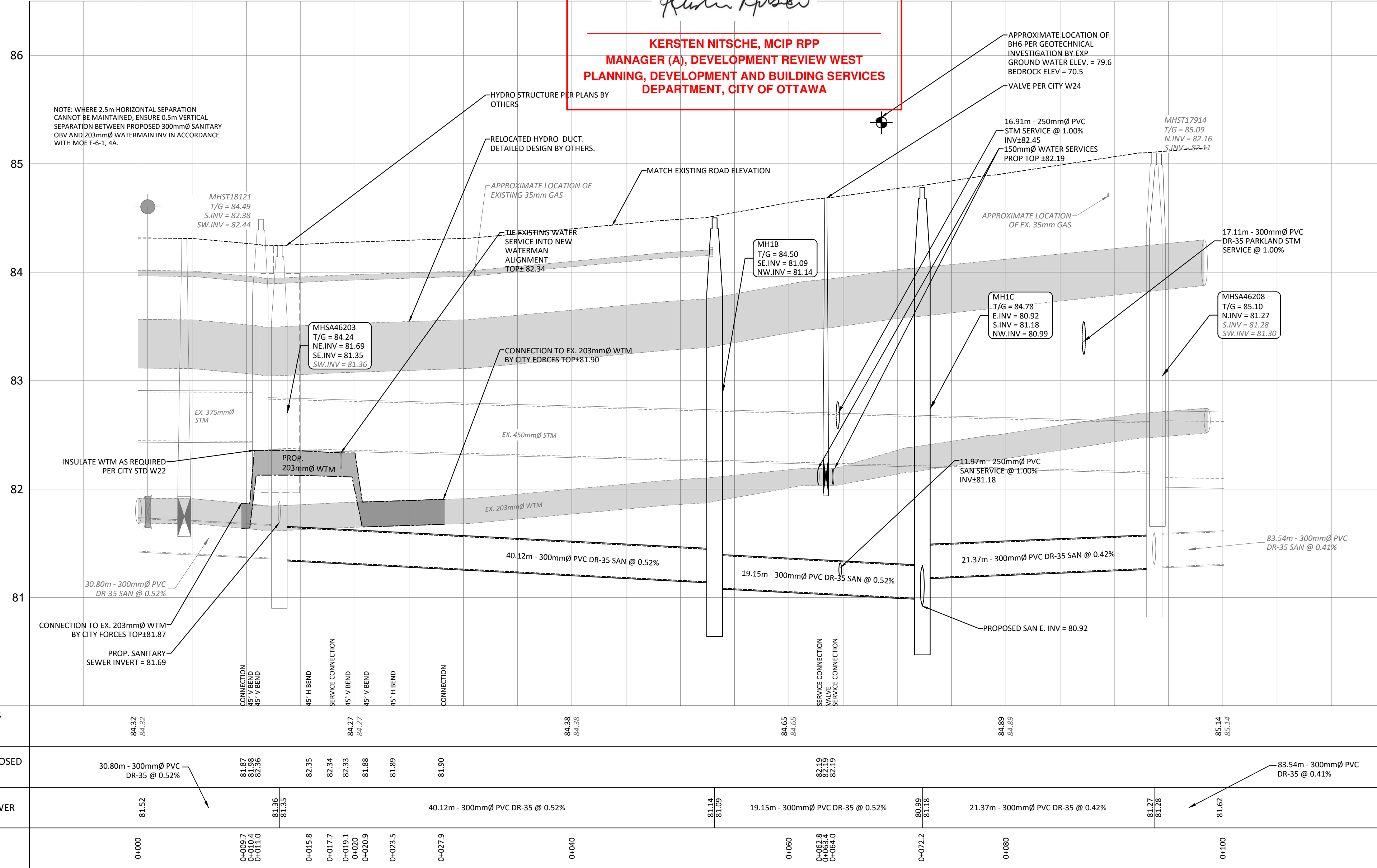
SAN STRUCTURE TABLE				
NAME	RIM ELEV.	INVERT IN	INVERT OUT	DESCRIPTION
MH1A	84.47	NW81.820	SW81.760	STRUC OPSD 701.010 FRAME CITY S25 COVER CITY S24
MH1B	84.50	NW81.141	SE81.090	STRUC OPSD 701.010 FRAME CITY S25 COVER CITY S24
MH1C	84.78	S81.180 NW80.990	E80.921	STRUC OPSD 701.010 FRAME CITY S25 COVER CITY S24
MH1D	84.20	W80.640 SE80.650	NW80.582	STRUC OPSD 701.011 FRAME CITY S25 COVER CITY S24
MHSA46203	84.24	NE81.690 SW81.360	SE81.350	EXISTING MH
MHSA46208	85.10	S81.280 SW81.300	N81.270	EXISTING MH
MHSA50442	84.30	SE80.510	N80.500	EX.MH

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% STANDARD PROCTOR DRY DENSITY (SPMD). CLEAR STONE BEDDING SHALL NOT BE PERMITTED. BEDDING THICKNESS TO BE INCREASED TO 300mm IF PLACED ON BEDROCK.
  - SUB-BEDDING, IF REQUIRED SHALL CONSIST OF 450mm OF COMPACTED GRANULAR "B" TYPE 1.
  - BACKFILL TO AT LEAST 300mm ABOVE TOP OF PIPE WITH GRANULAR "A" OR GRANULAR "B" TYPE 1.
  - TO MINIMIZE DIFFERENTIAL FROST HEAVING, TRENCH BACKFILL (FROM PAVEMENT SUBGRADE TO 1.8 METRES BELOW FINISHED GRADE) SHALL MATCH EXISTING SOIL CONDITIONS. THE TRENCH BACKFILL SHOULD BE PLACED TO A MAXIMUM 225mm THICK LOOSE LIFTS AND COMPACTED TO 98% OF THE MATERIAL'S SPMD.
- THE CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION PHASING AND LAYOUT. A PHASING PLAN SHALL BE ESTABLISHED FOR THE REALIGNMENT OF THE PROPOSED WATER AND SANITARY SERVICES TO ENSURE CONTINUAL SERVICE FOR THE OFF-SITE FLOWS.
- CONTRACTOR TO CITY SANITARY SEWER UPSTREAM AND DOWNSTREAM OF PROPOSED TIE IN LOCATIONS PRIOR TO AND AFTER PROPOSED WORKS.
- PROPOSED SANITARY MAINTENANCE STRUCTURES TO BE BENCHMARKED PER OPSD 701.021.
- SEWERS AND WATERMANS 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 PER MECP STANDARDS, ALL SEWERS SHOULD BE CONSTRUCTED OF WATERMAIN QUALITY PIPE, PRESSURE TESTED IN PLACE AT A PRESSURE OF 350 kPa (50 psi) WITHOUT LEAKAGE USING THE TESTING METHODOLOGY IN ONTARIO PROVINCIAL STANDARD SPECIFICATION 701 (OPS 701) OF THE OPS.
- WHERE SANITARY SEWERS ARE 0.6M BELOW GROUNDWATER TABLE, SANITARY MAINTENANCE HOLES SHALL BE EXTERNALLY WRAPPED WITH WATERPROOF MEMBRANE PLACED EXTERNALLY AROUND ALL PRECAST JOINTS, INCLUDING JOINTS BELOW THE MAINTENANCE HOLE FRAME 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 OTTAWA, BELL, ROGERS AND THE CITY.
- CONSTRUCT ALL WATERMANS AND APPURTENANCES IN ACCORDANCE WITH OPSD STANDARDS AND SPECIFICATIONS, AS WELL AS CITY STANDARDS.
- WATERMANS AND/OR WATER SERVICES ARE TO HAVE A MINIMUM COVER OF 2.4m. INSULATE ALL WATERMANS 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, ENSURE THAT THE AMOUNT OF DEFLECTION USED IS EQUAL TO OR LESS THAN THAT WHICH IS RECOMMENDED BY THE MANUFACTURER.
- THERMAL INSULATION OF WATERMANS 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. CONNECTION BY CITY FORCES. EXCAVATION, BACKFILLING AND REINSTATEMENT TO BE COMPLETED BY CONTRACTOR.
- CONCRETE THRUST BLOCKS TO CONFORM TO OPSD 1103.010, OPSD 1103.020 AND CITY OF OTTAWA STANDARDS RESTRAINED JOINTS TO CONFORM TO CITY OF OTTAWA STANDARDS.
- ALL WATERMAIN TO BE CLASS 150 DR-18 OR APPROVED EQUIVALENT.
- ALL WATERMAIN TO BE EQUIPPED WITH 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 W25.2 FOR CROSSING UNDER SEWER, THE MINIMUM VERTICAL CLEARANCE IS 0.5m AS PER CITY DETAIL W25.2. FOR CROSSING UNDER SEWER, ADEQUATE STRUCTURAL SUPPORT FOR THE SEWERS IS REQUIRED TO PREVENT EXCESSIVE DEFLECTION OF JOINTS AND SETTLING. THE LENGTH OF WATER PIPE SHALL BE CENTERED AT THE POINT OF CROSSING SO THAT THE JOINTS WILL BE EQUIDISTANT AND AS FAR AS POSSIBLE FROM THE SEWER.



LEGEND	
UC	BARRIER CURB & CURB DEPRESSION
PROPOSED CONCRETE SIDEWALK/WALKWAY	PROPOSED ELEVATION EXISTING ELEVATION
MH	STORM MANHOLE
CB	CATCH BASIN, CURB INLET OR DITCH INLET
MHSA	SANITARY MANHOLE
---	PROPERTY LINE
W	WATER VALVE/CHAMBER
F	FIRE HYDRANT
---	PROPOSED WALL
---	PROPOSED FIRE DEPARTMENT CONNECTION
M	PROPOSED WATER METER AND REMOTE METER
---	CURB OPENING PER OPSD 604.010
---	EXISTING STORM SEWER
---	EXISTING SAN SEWER
---	PROPOSED WATERMAIN/SERVICE
---	PROPOSED SAN SEWER/SERVICE
---	PROPOSED STM SEWER/SERVICE
---	PROPOSED PERFORATED STM SEWER/SERVICE
---	SLOPING AT 3:1 UNLESS SPECIFIED
---	TOP/BOTTOM WALL FACE ELEVATIONS
---	PROPOSED EMERGENCY OVERLAND FLOW ROUTE EXISTING DRAINAGE PATTERN
---	BUILDING ENTRANCE
---	TWSP PER SC7.1
---	CENTRELINE OF SWALE
---	PROPOSED ROAD CUT AND REINSTATEMENT PER CITY R10
---	ASPHALT PATHWAY PER CITY SC21
---	EXISTING HYDRO LINE
---	EXISTING OHW
---	EXISTING GAS LINE
---	EXISTING BELL SERVICE
---	EXISTING ROGERS SERVICE
---	EXTENT OF TREE PROTECTION FENCE PER LANDSCAPE PLAN



**APPROVED**  
By Kersten Nitsche at 2:55 pm, Jun 27, 2025

**KERSTEN NITSCHKE, MCIP RPP**  
MANAGER (A), DEVELOPMENT REVIEW WEST  
PLANNING, DEVELOPMENT AND BUILDING SERVICES  
DEPARTMENT, CITY OF OTTAWA

No.	Revisions	Date
8	ISSUED FOR REVIEW	APR 25, 2025
7	ISSUED FOR TENDER	JAN 31, 2025
6	ISSUED FOR APPROVAL	OCT 08, 2024
5	ISSUED FOR MUNICIPAL CONSENT	SEP 20, 2024
4	ISSUED FOR SITE PLAN CONTROL	AUG 01, 2024
3	ISSUED FOR MUNICIPAL CONSENT	JUNE 04, 2024
2	ISSUED FOR SPC AND MUNICIPAL CONSENT	MAY 17, 2024
1	ISSUED FOR SITE PLAN CONTROL	SEPT 25, 2023
No.	Revisions	Date

Check and verify all dimensions before proceeding with the work Do not scale drawings

SCALE 1:250

0 5 10 15 20 25 Metres

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**C.A. MACLEOD**  
100159108  
APR 25/2025  
PROVINCE OF ONTARIO

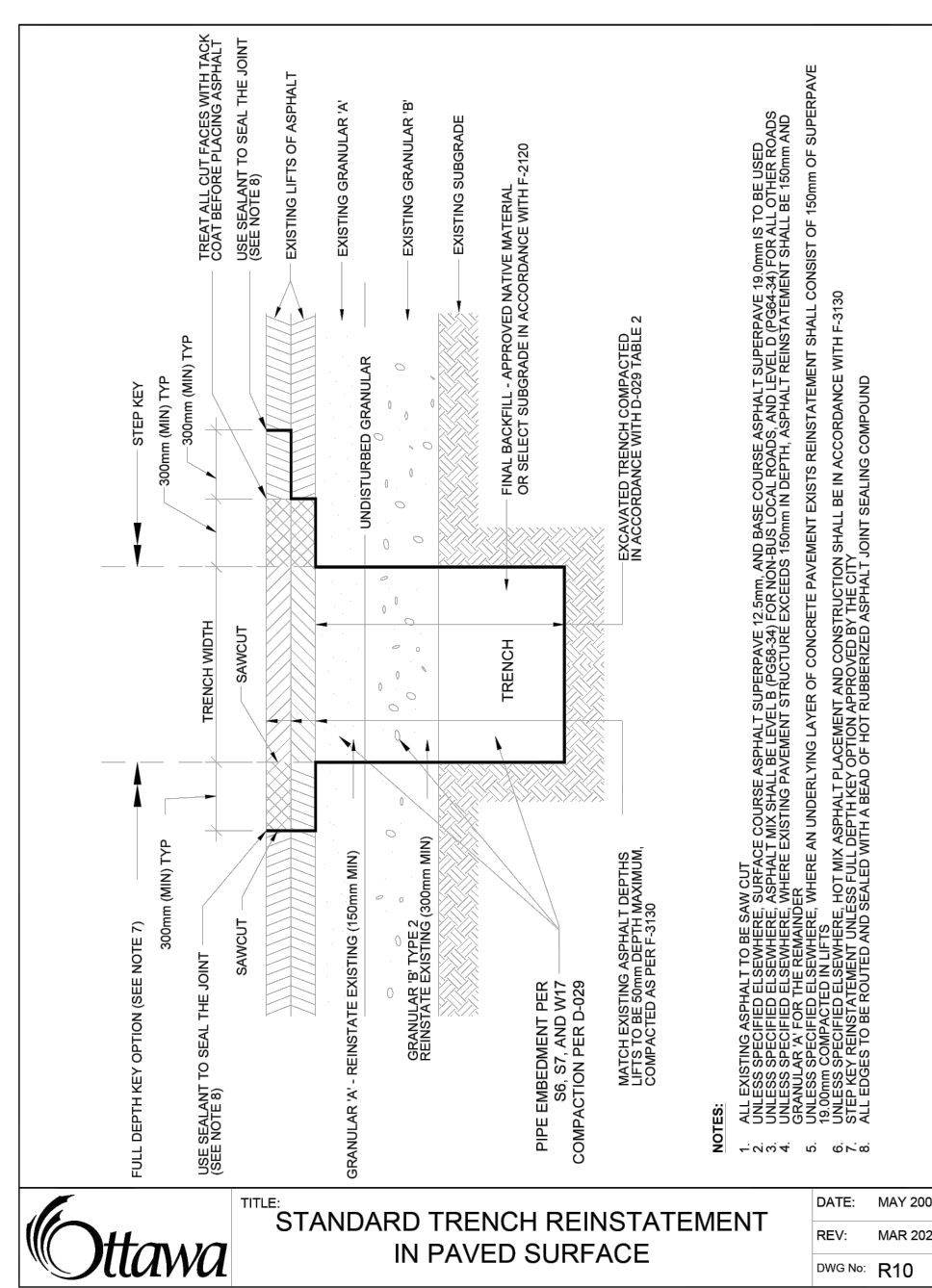
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1600 LAPPERIERRE AVE  
OTTAWA, ON K1P 8P5

Project: **780 BASELINE - PHASE 1**

OTTAWA ON

Drawing Title: **PLAN AND PROFILE  
STA 0+000 TO 0+100**

Scale: 1:250	Project Number: CCO-22-0952
Drawn By: R.R.R.	Checked By: A.M.
Designed By: R.R.R.	Drawing Number: C201



D07-12-23-0076