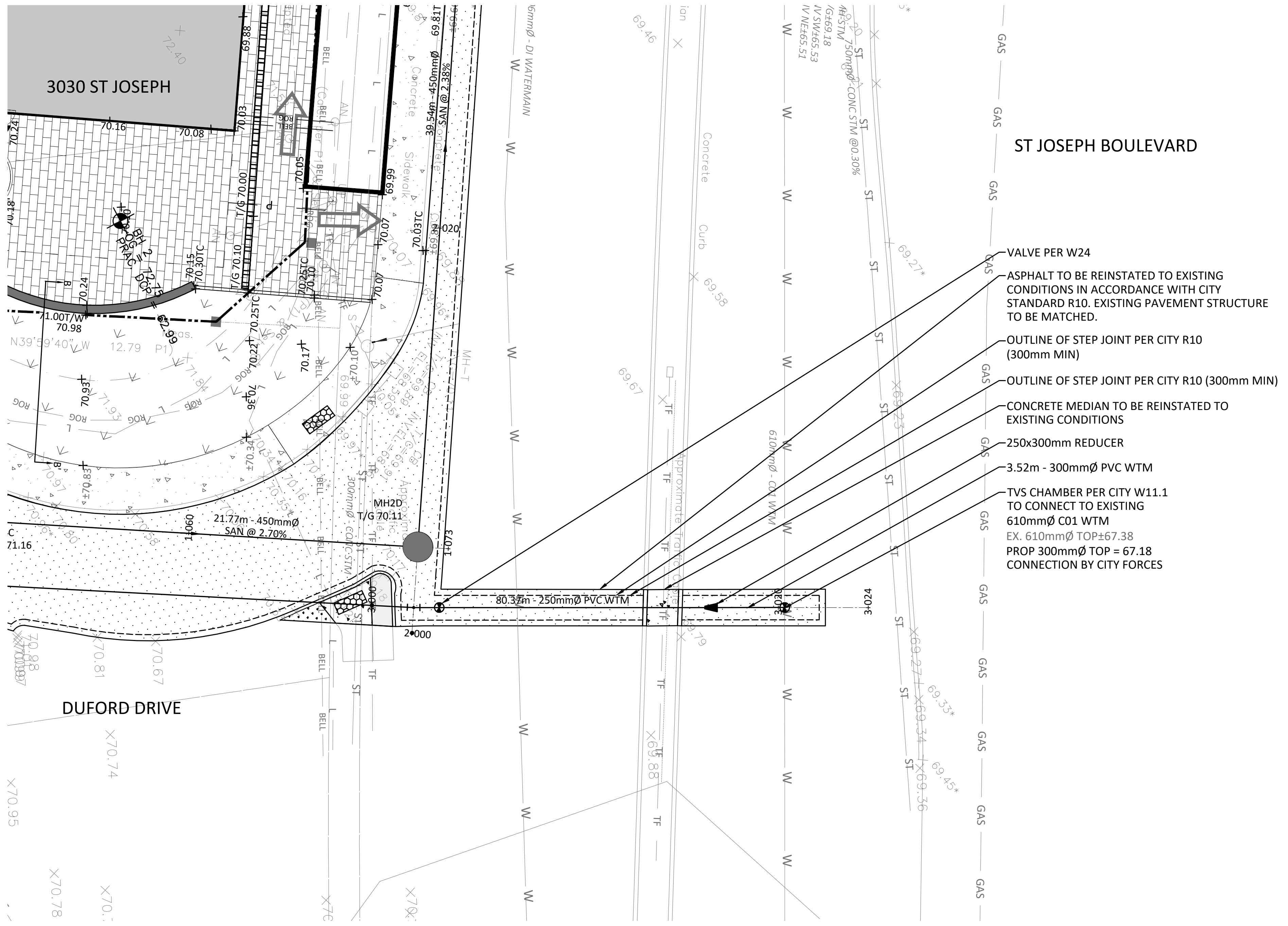
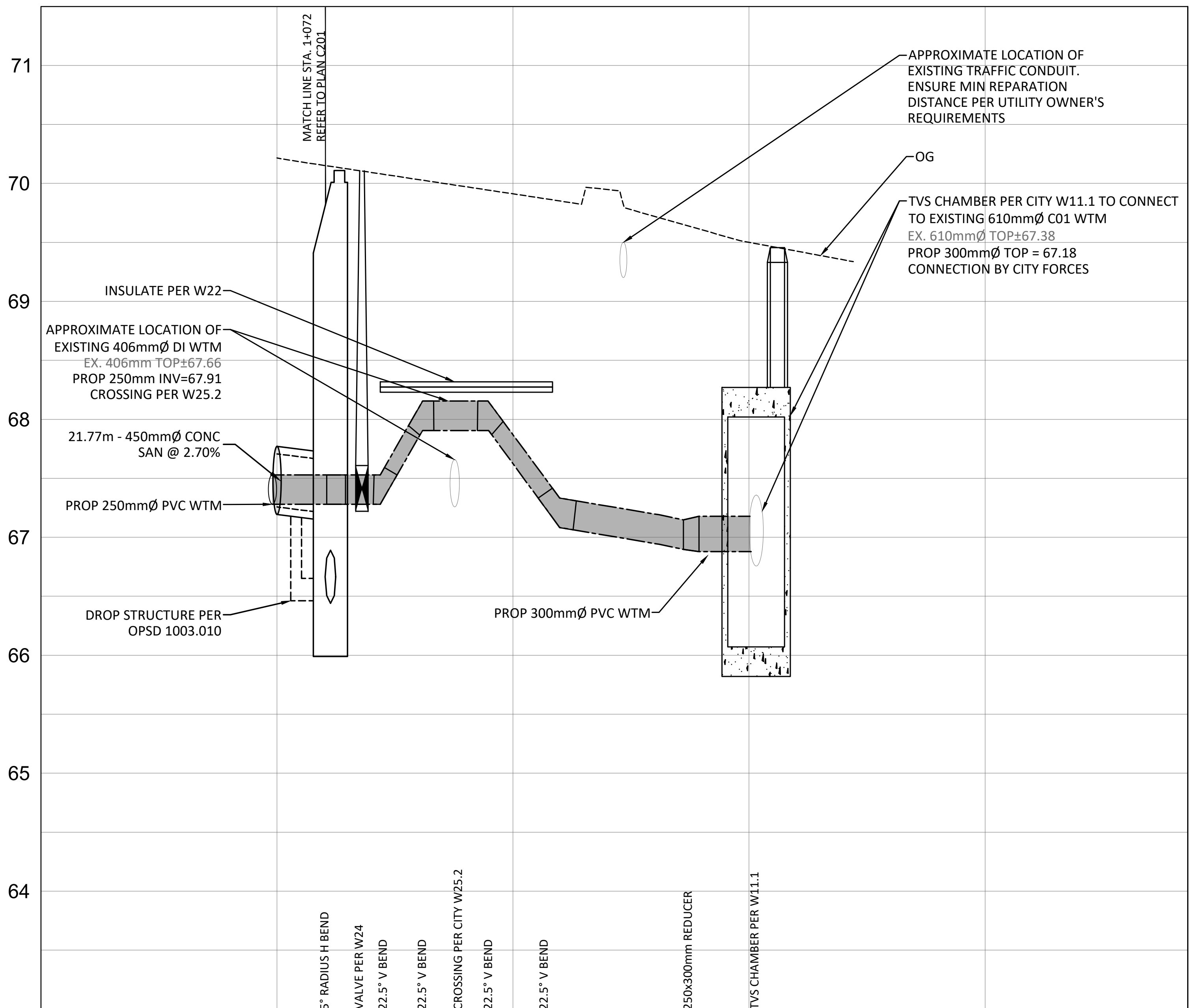
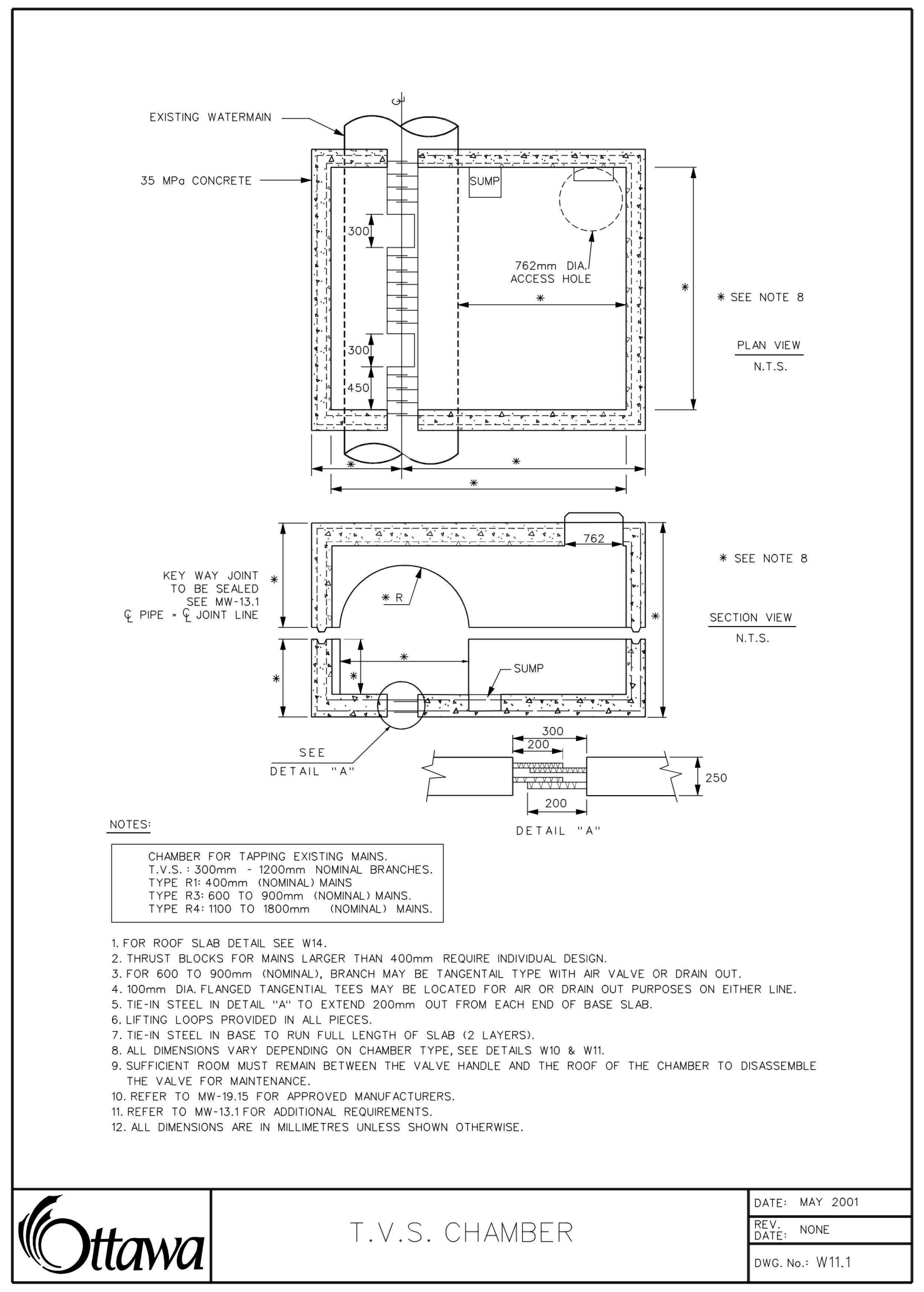


- VALVE PER W24
- ASPHALT TO BE REINSTATED TO EXISTING CONDITIONS IN ACCORDANCE WITH CITY STANDARD R10. EXISTING PAVEMENT STRUCTURE TO BE MATCHED.
- OUTLINE OF STEP JOINT PER CITY R10 (300mm MIN)
- OUTLINE OF STEP JOINT PER CITY R10 (300mm MIN)
- CONCRETE MEDIAN TO BE REINSTATED TO EXISTING CONDITIONS
- 250x300mm REDUCER
- 3.52m - 300mmØ PVC WTM
- TVS CHAMBER PER CITY W11.1 TO CONNECT TO EXISTING 610mmØ C01 WTM
  EX. 610mmØ TOP±67.38
  PROP 300mmØ TOP = 67.18
  CONNECTION BY CITY FORCES



- APPROXIMATE LOCATION OF EXISTING TRAFFIC CONDUIT. ENSURE MIN REPARATION DISTANCE PER UTILITY OWNER'S REQUIREMENTS
- OG
- TVS CHAMBER PER CITY W11.1 TO CONNECT TO EXISTING 610mmØ C01 WTM
  EX. 610mmØ TOP±67.38
  PROP 300mmØ TOP = 67.18
  CONNECTION BY CITY FORCES
- INSULATE PER W22
- APPROXIMATE LOCATION OF EXISTING 406mmØ DI WTM
  EX. 406mm TOP±67.66
  PROP 250mm INV=67.91
  CROSSING PER W25.2
- 21.77m - 450mmØ CONC SAN @ 2.70%
- PROP 250mmØ PVC WTM
- DROP STRUCTURE PER OPSD 1003.010
- PROP 300mmØ PVC WTM

℄ ELEVATIONS PROPOSED EXISTING	70.22 70.22									69.50 69.50
TOP OF WATERMAIN	67.53	67.53	67.53	67.57	68.08	68.16	68.15	67.57	67.15	67.18
SANITARY SEWER										
STATION	3+000	3+002	3+003	3+005	3+006	3+008	3+009	3+011	3+017	3+020



NOTES:

CHAMBER FOR TAPPING EXISTING MAINS.
T.V.S. : 300mm - 1200mm NOMINAL BRANCHES.
TYPE R1: 400mm (NOMINAL) MAINS
TYPE R3: 600 TO 900mm (NOMINAL) MAINS.
TYPE R4: 1100 TO 1800mm (NOMINAL) MAINS.

1. FOR ROOF SLAB DETAIL SEE W14.
2. THRUST BLOCKS FOR MAINS LARGER THAN 400mm REQUIRE INDIVIDUAL DESIGN.
3. FOR 600 TO 900mm (NOMINAL), BRANCH MAY BE TANGENTAIL TYPE WITH AIR VALVE OR DRAIN OUT.
4. 100mm DIA. FLANGED TANGENTIAL TEES MAY BE LOCATED FOR AIR OR DRAIN OUT PURPOSES ON EITHER LINE.
5. TIE-IN STEEL IN DETAIL "A" TO EXTEND 200mm OUT FROM EACH END OF BASE SLAB.
6. LIFTING LOOPS PROVIDED IN ALL PIECES.
7. TIE-IN STEEL IN BASE TO RUN FULL LENGTH OF SLAB (2 LAYERS).
8. ALL DIMENSIONS VARY DEPENDING ON CHAMBER TYPE, SEE DETAILS W10 & W11.
9. SUFFICIENT ROOM MUST REMAIN BETWEEN THE VALVE HANDLE AND THE ROOF OF THE CHAMBER TO DISASSEMBLE THE VALVE FOR MAINTENANCE.
10. REFER TO MW-19.15 FOR APPROVED MANUFACTURERS.
11. REFER TO MW-13.1 FOR ADDITIONAL REQUIREMENTS.
12. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE.

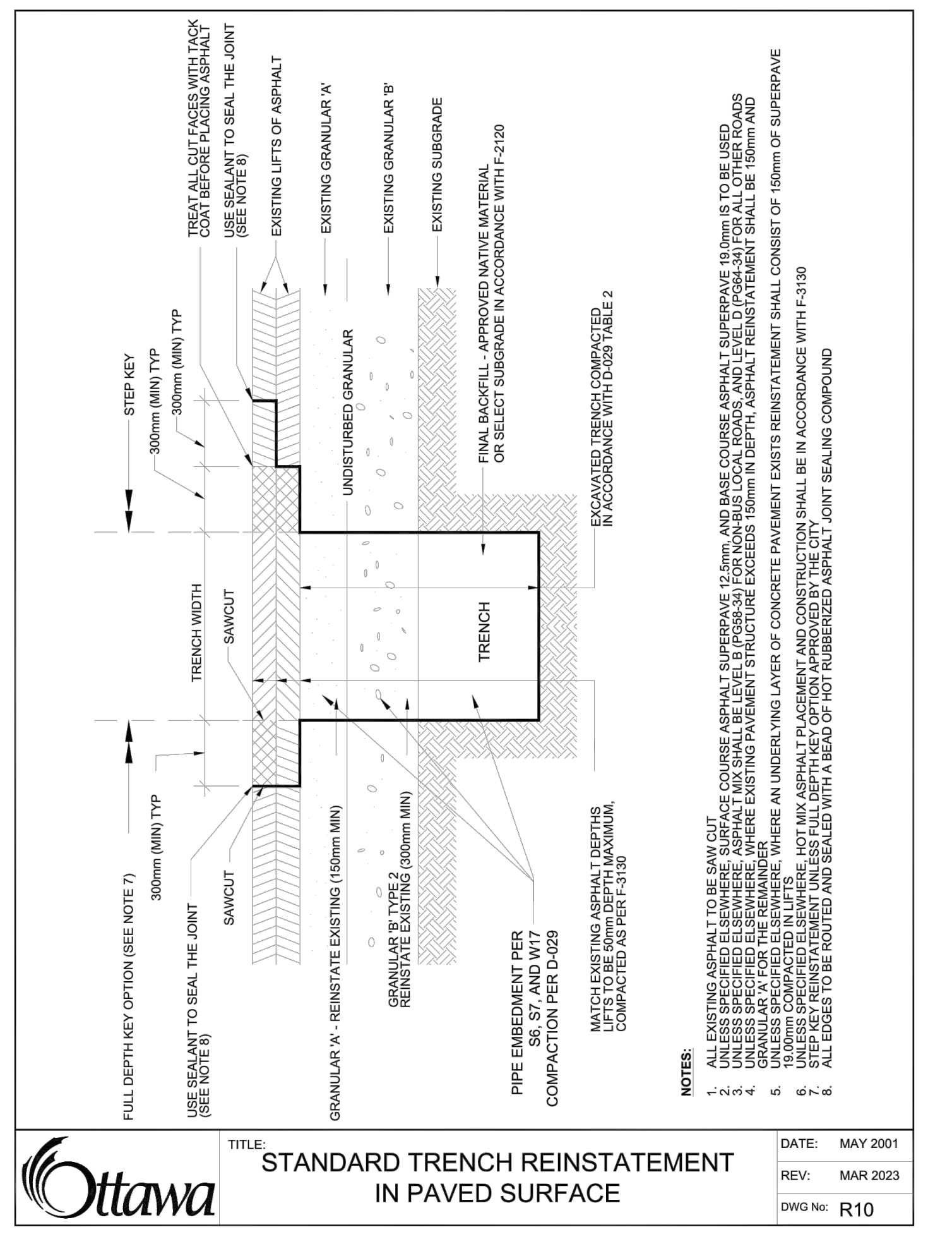
T.V.S. CHAMBER

DATE: MAY 2001
REV. DATE: NONE
DWG. No.: W11.1

SAN STRUCTURE TABLE				
NAME	RIM ELEV.	INVERT IN	INVERT OUT	DESCRIPTION
MH2A	75.79	SE73.520	N72.940	STRUC. OPSD 701.011 COVER. CITY S24 FRAME. CITY S25
MH2B	75.23	S72.777	N69.578	STRUC. OPSD 701.011 COVER. CITY S24 FRAME. CITY S25 C/W EXTERNAL DROP STRUCTURE PER OPSD 1003.010
MH2C	71.16	S68.620	NW67.788	STRUC. OPSD 701.011 COVER. CITY S24 FRAME. CITY S25 C/W EXTERNAL DROP STRUCTURE PER OPSD 1003.010
MH2D	70.11	SE67.200	SW66.440	STRUC. OPSD 701.011 COVER. CITY S24 FRAME. CITY S25 C/W EXTERNAL DROP STRUCTURE PER OPSD 1003.010
MH2E	69.45	NE65.500	NW65.080	STRUC. OPSD 701.011 COVER. CITY S24 FRAME. CITY S25

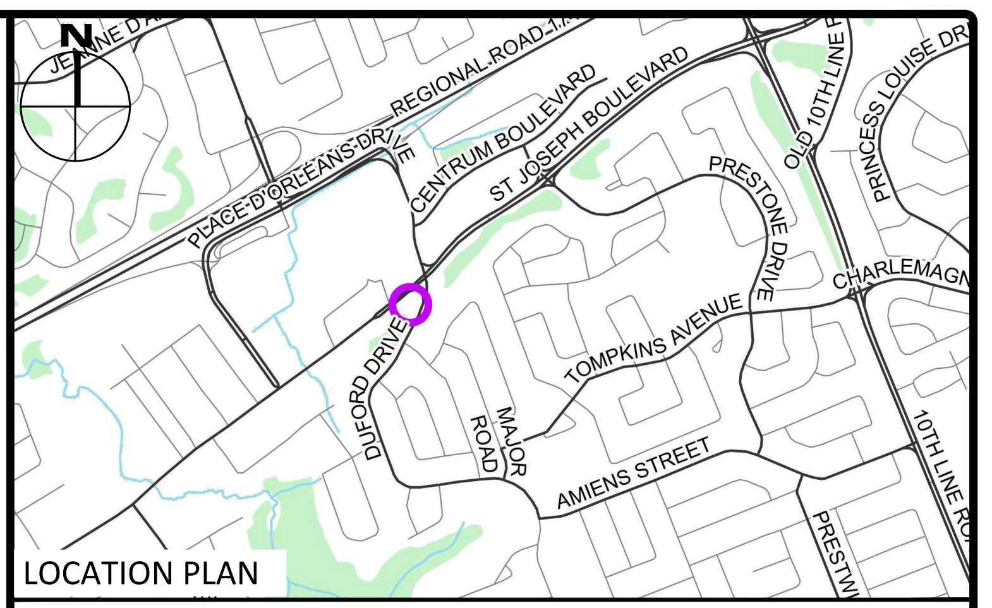
MUNICIPAL SEWER/WATERMAIN RELOCATION NOTES:

1. CONSTRUCT ALL SEWERS, MANHOLES AND APPURTENANCES IN ACCORDANCE WITH OPSD STANDARDS AND SPECIFICATIONS, AS WELL AS CITY.
2. SEWER TRENCHING AND BEDDING SHALL CONFORM TO OPSD 802.010 AND 802.013 UNLESS NOTED OTHERWISE.
   2.1. BEDDING SHALL BE A MINIMUM 150mm OF GRANULAR "A", COMPACTED TO MINIMUM 98% STANDARD PROCTOR DRY DENSITY (SPMDD). CLEAR STONE BEDDING SHALL NOT BE PERMITTED. BEDDING THICKNESS TO BE INCREASED TO 300mmm IF PLACED ON BEDROCK.
   2.2. SUB-BEDDING, IF REQUIRED SHALL CONSIST OF 450mm OF COMPACTED GRANULAR "B" TYPE 1.
   2.3. BACKFILL TO AT LEAST 300mm ABOVE TOP OF PIPE WITH GRANULAR "A" OR GRANULAR "B" TYPE 1.
   2.4. 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 IN MAXIMUM 225mm THICK LOOSE LIFTS AND COMPACTED TO 98% OF THE MATERIAL'S SPMDD.
3. 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.
4. SEWERS AND CONNECTIONS 200mmØ-375mmØ TO BE PVC SDR-35. SEWER CONNECTIONS 450mmØ 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 & 807.030, AS APPLICABLE.
5. CONTRACTOR TO CCTV SANITARY SEWER UPSTREAM AND DOWNSTREAM OF PROPOSED TIE IN LOCATIONS PRIOR TO AND AFTER PROPOSED WORKS.
6. PROPOSED SANITARY MAINTENANCE STRUCTURES TO BE BENCHED PER OPSD 701.021.
7. SEWERS AND WATERMAINS 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 (OPSS 701) OF THE OPS.
8. 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.
9. THE LOCATION OF EXISTING UTILITIES ARE TO BE FIELD VERIFIED PRIOR TO CONSTRUCTION.
10. INSTALLATION TO BE IN ACCORDANCE WITH CURRENT CODES AND STANDARDS OF APPROVAL AGENCIES HYDRO ONE, BELL, ROGERS AND THE CITY.
11. CONSTRUCT ALL WATERMAINS AND APPURTENANCES IN ACCORDANCE WITH OPSD STANDARDS AND SPECIFICATIONS, AS WELL AS CITY STANDARDS.
12. 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.
13. 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.
14. THERMAL INSULATION OF WATERMAINS AT OPEN STRUCTURES AS PER CITY DETAIL W23.
15. VALVES TO BE OPERATED BY CITY STAFF ONLY.
16. NO CONNECTION TO EXISTING WATER NETWORK SHALL BE COMPLETED UNTIL A WATER PERMIT IS OBTAINED FROM THE CITY. CITY TO BE PRESENT FOR WATERMAIN CONNECTION. CONNECTION, EXCAVATION, BACKFILLING AND REINSTATEMENT TO BE COMPLETED BY CONTRACTOR.
17. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PERFORM ANY WATERMAIN CONNECTION(S) REQUIRED. THIS SHALL BE COMPLETED IN THE PRESENCE OF A DESIGNATED MUNICIPAL WATER OPERATOR AND THE SELECTED CONTRACTOR SHALL PROVE TO THE SATISFACTION OF THE CITY THAT THEY ARE COMPETENT TO PERFORM THE WORKS PRIOR TO INITIATING CONSTRUCTION.
18. CONCRETE THRUST BLOCKS TO CONFORM TO OPSD 1103.010 AND OPSD 1103.020.
19. ALL WATERMAIN TO BE CLASS 150 DR-18 OR APPROVED EQUIVALENT.
20. ALL WATERMAIN TO BE EQUIPPED WITH TRACER WIRE.
21. 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. 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.



TITLE: STANDARD TRENCH REINSTATEMENT IN PAVED SURFACE

DATE: MAY 2001
REV: MAR 2023
DWG No: R10



LOCATION PLAN

LEGEND

DC	BARRIER CURB & CURB DEPRESSION		SLOPING AT 3:1 UNLESS SPECIFIED
	PROPOSED CONCRETE PAVERS	×95.94 93.20	PROPOSED ELEVATION EXISTING ELEVATION
○MH#	STORM MANHOLE	×95.94 (S)	SWALE ELEVATION
■ CB CICB DI	CATCHBASIN, CURB INLET OR DITCH INLET	×T/W100.50 B/W90.50	TOP/BOTTOM WALL FACE ELEVATIONS
●MH#A	SANITARY MANHOLE	⇨	PROPOSED EMERGENCY OVERLAND FLOW ROUTE
— — —	PROPERTY LINE	⇨ ⇨	PRE AND POST-DEVELOPMENT DRAINAGE DIRECTIONS
	EX. WATER VALVE/CHAMBER		HEAVY DUTY SILT FENCE BARRIER PER OPSD 219.130
	PROP. VALVE PER CITY W24	▼	BUILDING ENTRANCE
	FIRE HYDRANT		PROPOSED GRASS
▬	PROPOSED WALL		
	PROPOSED SIAMESE CONNECTION	— · —	CENTRELINE OF SWALE
Ⓜ RM	PROPOSED WATER METER AND REMOTE METER	▨	PROPOSED ROADCUT AND REINSTATEMENT PER CITY R10
		⊗	CB SILT SACK PER C101 DETAIL
	PROPOSED CONCRETE SIDEWALK	①	SERVICE/SEWER CROSSING
	PROP AND EX. REDUCER	L	EX. UG STREET LIGHT
P	U/G HYDRO DUCT PER ELEC.	TF	EX. TRAFFIC LINE
ST	EX. STM SEWER	W	EX. WATERMAIN
SAN	EX. SAN SEWER	GAS	EX. GAS
BELL ROG	BELL AND ROGERS CONDUIT FOR BUILDING PER ELEC.	OHW	EX. OHW
		GAS	EX. TRAFFIC CABLE
		BELL	EX. BELL
		ROG	EX. ROGERS

No.	Revisions	Date
1	ISSUED FOR SPC AND MUNICIPAL CONSENT	SEPT 05, 2024

Check and verify all dimensions before proceeding with the work

Do not scale drawings

SCALE 1 : 200

0 10 20 Metres

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N

C. A. MACLEOD
100159106
SEPT 05/2024

Client:

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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

Drawn By: RRR

Checked By: AM

Designed By: RRR

Project Number: CCO-24-0142

Drawing Number: C203

D07-12-23-0090

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