

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.
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.
5. COMPLETE ALL WORKS IN ACCORDANCE WITH THE MOST CURRENT CITY OF OTTAWA STANDARDS AND SPECIFICATIONS USING THE CURRENT GUIDELINES, BYLAWS AND STANDARDS INCLUDING MATERIALS OF CONSTRUCTION, DISINFECTION AND ALL RELEVANT REFERENCES TO OPSS, OPSD & AWWA GUIDELINES - ALL CURRENT VERSIONS AND 'AS AMENDED'.
6. 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.
7. REMOVE FROM SITE ALL EXCESS EXCAVATED MATERIAL, ORGANIC MATERIAL, AND DEBRIS UNLESS OTHERWISE INSTRUCTED BY ENGINEER.
8. ALL ELEVATIONS ARE GEODETIC.
9. REFER TO THE GEOTECHNICAL INVESTIGATION REPORT (NO. PG6394-1, REV. 3, DATED MAY 31, 2023) AND THE GEOTECHNICAL RECOMMENDATIONS MEMORANDUM (NO. PG6394-MEMO.02, DATED MAY 30, 2023) BOTH PREPARED BY PATERSON GROUP INC.
10. REFER TO ARCHITECT'S AND LANDSCAPE ARCHITECT'S DRAWINGS FOR BUILDING AND HARD SURFACED AREAS AND DIMENSIONS.
11. REFER TO THE 'SITE SERVICING AND STORMWATER MANAGEMENT REPORT' (R-2022-209) PREPARED BY NOVATECH.
12. SAW CUT AND KEY GRIND ASPHALT AT ALL ROAD CUTS AND ASPHALT TIE IN POINTS AS PER CITY OF OTTAWA STANDARDS (R10).
13. PROVIDE LINE / PARKING LOT PAINTING AS REQUIRED BY ARCHITECT.
14. CONTRACTOR TO PROVIDE THE CONSULTANT WITH A SERVICING PLAN OF 122151-GP1 AND 122151-GP2 INDICATING ALL SERVICING AS-BUILT INFORMATION SHOWN ON THE SERVICING PLANS. AS-BUILT INFORMATION MUST INCLUDE: PIPE MATERIAL, SIZES, LENGTHS, SLOPES, INVERT AND TIG ELEVATIONS, STRUCTURE LOCATIONS, VALVE AND HYDRANT LOCATIONS, TWM ELEVATIONS AND ANY ALIGNMENT CHANGES, ETC.

SEWER NOTES:

- 1. SUPPLY AND CONSTRUCT ALL SEWERS AND APPURTENANCES IN ACCORDANCE WITH THE MOST CURRENT CITY OF OTTAWA STANDARDS AND SPECIFICATIONS - ALL CURRENT VERSIONS AND 'AS AMENDED'.
2. SPECIFICATIONS:
ITEM SPEC. No. REFERENCE
CATCHBASIN (600x600mm) 705.010 OPSD
STORM / SANITARY MANHOLE (1200mmØ) 701.010 OPSD
STORM / CATCHBASIN MANHOLE (2400mmØ) 701.013 OPSD
CB, FRAME & COVER 400.020 OPSD
STORM / SANITARY MH FRAME & COVER 401.010 OPSD
WATER TIGHT MH FRAME AND COVER 401.030 OPSD
SEWER TRENCH 56 OPSD CITY OF OTTAWA
SANITARY / STORM SEWER / CB LEAD PVC DR 35
STORM SUPER-PIPE (600mm DIAMETER AND OVER) CONCRETE 65-D
3. THE WEeping TILE SERVICE SHALL BE EQUIPPED WITH A BACKFLOW PREVENTION DEVICE AS PER THE CITY OF OTTAWA STANDARD DETAIL S18.
4. INSULATE ALL PIPES (SAN/STM) THAT HAVE LESS THAN 1.0m COVER WITH HI-40 INSULATION PER INSULATION DETAIL FOR SHALLOW SEWERS. PROVIDE 150mm CLEARANCE BETWEEN PIPE AND INSULATION.
5. SERVICES ARE TO BE CONSTRUCTED TO 1.0m FROM FACE OF BUILDING AT A MINIMUM SLOPE OF 1.0%.
6. PIPE BEDDING, COVER AND BACKFILL ARE TO BE COMPACTED TO AT LEAST 95% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY. THE USE OF CLEAR CRUSHED STONE AS A BEDDING LAYER SHALL NOT BE PERMITTED.
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, 410.07.18.04 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.
9. TYPICAL STORM MANHOLES AND CATCHBASIN MANHOLES ARE TO HAVE 300mm SUMPS UNLESS OTHERWISE INDICATED. ALL CATCHBASINS ARE TO HAVE 600mm SUMPS UNLESS OTHERWISE INDICATED.
10. ALL CATCHBASINS, MANHOLES AND/OR CATCHBASIN MANHOLES THAT ARE TO HAVE ICDS INSTALLED WITHIN THEM ARE TO HAVE 600mm SUMPS.
11. ALL WEeping TILE CONNECTIONS TO BE MADE TO THE PROPOSED STORM SEWER SYSTEM DOWNSTREAM OF ANY INLET CONTROL DEVICES.
12. THE CONTRACTOR IS TO TELEVISION (CCTV) ALL PROPOSED SEWERS, 200mmØ OR GREATER PRIOR TO BASE COURSE ASPHALT. UPON COMPLETION OF CONTRACT, THE CONTRACTOR IS RESPONSIBLE TO FLUSH, CLEAN AND RE-TELEVISION (CCTV) ALL SEWERS & APPURTENANCES. PROVIDE A COPY OF ALL CCTV INSPECTION REPORTS TO THE ENGINEER FOR REVIEW.

GRADING NOTES:

- 1. ALL TOPSOIL, ORGANIC OR DELETERIOUS MATERIAL MUST BE ENTIRELY REMOVED FROM BENEATH THE PROPOSED PAVED AREAS AS DIRECTED BY THE SITE ENGINEER OR GEOTECHNICAL ENGINEER.
2. EXPOSED SUBGRADES 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. ANY SOFT AREAS EVIDENT FROM THE PROOF ROLLING SHOULD BE SUB-EXCAVATED AND REPLACED WITH SUITABLE MATERIAL THAT IS FROST COMPATIBLE WITH THE EXISTING SOILS AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER.
4. THE GRANULAR BASE SHOULD BE COMPACTED TO AT LEAST 95% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY VALUE. ANY ADDITIONAL GRANULAR FILL USED BELOW THE PROPOSED PAVEMENT SHOULD BE COMPACTED TO AT LEAST 95% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY VALUE.
5. MINIMUM OF 2% GRADE FOR ALL GRASS AREAS UNLESS OTHERWISE NOTED.
6. MAXIMUM TERRACING GRADE TO BE 3:1 UNLESS OTHERWISE NOTED.
7. ALL GRADES BY CURBS ARE EDGE OF PAVEMENT GRADES UNLESS OTHERWISE INDICATED.
8. ALL CURBS SHALL BE BARRIER CURB (150mm) UNLESS OTHERWISE NOTED AND CONSTRUCTED AS PER CITY OF OTTAWA STANDARDS (SC1-1).
9. REFER TO LANDSCAPE PLAN FOR PLANTING AND OTHER LANDSCAPE FEATURE DETAILS.
10. CONTRACTOR TO PROVIDE THE CONSULTANT WITH A GRADING PLAN INDICATING AS-BUILT ELEVATIONS OF ALL DESIGN GRADES SHOWN ON PLANS 122151-GR1 AND 122151-GR2.

PAVEMENT STRUCTURES:

LIGHT DUTY PAVEMENT
50mm HL-3 or SUPERPAVE 12.5
150mm GRANULAR 'A'
300mm GRANULAR 'B' TYPE II
ASPHALT GRADE PG 58-34 - TRAFFIC LEVEL 'B'
\*INSTALLED PER GEOTECHNICAL REPORT

HEAVY DUTY PAVEMENT
40mm HL-3 or SUPERPAVE 12.5
50mm HL-3 or SUPERPAVE 19.0
150mm GRANULAR 'A'
400mm GRANULAR 'B' TYPE II
ASPHALT GRADE PG 58-34 - TRAFFIC LEVEL 'B'
\*INSTALLED PER GEOTECHNICAL REPORT

HEAVY DUTY CONCRETE ROADWAY
CONCRETE AND HEAVY DUTY GRANULAR
BASE INSTALLED PER GEOTECHNICAL REPORT

HEAVY DUTY PAVEMENT - ROADWAY RE-INSTATEMENT
MATCH EXISTING GRANULAR STRUCTURE OF ROADWAY IN TRENCHES
MATCH EXISTING ASPHALT THICKNESSES IN TRENCHES
NEW ASPHALT GRADE: PG 58-34
PROVIDE MUNICIPAL ROADWAY ASPHALT OVERLAY AS SHOWN, PER CITY STANDARD DETAIL R10, TO AMENDED ROAD ACTIVITY BY-LAW 2003-445.

NOTE:
THE POSITION OF ALL POLE LINES, CONDUITS, WATERMANS, 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 DAMAGE TO THEM.

EROSION AND SEDIMENT CONTROL NOTES:

THE CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES, TO PROVIDE FOR PROTECTION OF THE AREA DRAINAGE SYSTEM AND THE RECEIVING WATERCOURSE, DURING CONSTRUCTION ACTIVITIES. THE CONTRACTOR ACKNOWLEDGES THAT FAILURE TO IMPLEMENT APPROPRIATE EROSION AND SEDIMENT CONTROL MEASURES MAY BE SUBJECT TO PENALTIES IMPOSED BY ANY APPLICABLE REGULATORY AGENCY.

- 1. ALL EROSION AND SEDIMENT CONTROLS ARE TO BE INSTALLED TO THE SATISFACTION OF THE ENGINEER AND THE CITY OF OTTAWA. THEY ARE TO BE 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. THESE PRACTICES ARE TO BE IMPLEMENTED IN ACCORDANCE WITH THE CURRENT BEST MANAGEMENT PRACTICES FOR EROSION AND SEDIMENT CONTROL AND SHOULD INCLUDE AS A MINIMUM THOSE MEASURES INDICATED ON THE PLAN.
2. EROSION AND SEDIMENT CONTROL MEASURES WILL BE IMPLEMENTED DURING CONSTRUCTION IN ACCORDANCE WITH THE 'GUIDELINES ON EROSION AND SEDIMENT CONTROL FOR URBAN CONSTRUCTION SITES' (GOVERNMENT OF ONTARIO, MAY 1987). THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR MEETING ALL REGULATORY AGENCY REQUIREMENTS.
3. TO PREVENT SURFACE EROSION FROM ENTERING ANY STORM SEWER SYSTEM DURING CONSTRUCTION, FILTER BAGS WILL BE PLACED UNDER GRATES OF NEARBY CATCHBASINS AND STRUCTURES. A LIGHT DUTY SILT FENCE BARRIER WILL ALSO BE INSTALLED AROUND THE CONSTRUCTION AREA (WHERE APPLICABLE). THESE CONTROL MEASURES WILL REMAIN IN PLACE UNTIL CONSTRUCTION IS COMPLETE.
4. TO LIMIT EROSION, MINIMIZE THE AMOUNT OF EXPOSED SOILS AT ANY GIVEN TIME. RE-VEGETATE EXPOSED AREAS AND SLOPES AS SOON AS POSSIBLE AND PROTECT EXPOSED SLOPES WITH NATURAL OR SYNTHETIC MULCHES.
5. FOR MATERIAL STOCKPILING: MINIMIZE THE AMOUNT OF EXPOSED MATERIALS AT ANY GIVEN TIME. APPLY TEMPORARY SEEDING, TARPS, COMPACT AND/OR SURFACE ROUGHENING AS REQUIRED TO STABILIZE STOCKPILED MATERIALS THAT WILL NOT BE USED WITHIN 14 DAYS.
6. THE SEDIMENT CONTROL MEASURES SHALL ONLY BE REMOVED WHEN, IN THE OPINION OF THE ENGINEER, THE MEASURES ARE NO LONGER REQUIRED. NO CONTROL MEASURES MAY BE PERMANENTLY REMOVED WITHOUT PRIOR AUTHORIZATION FROM THE ENGINEER.
7. THE CONTRACTOR SHALL IMMEDIATELY REPORT TO THE ENGINEER ANY ACCIDENTAL DISCHARGES OF SEDIMENT MATERIAL INTO ANY STORM SEWER SYSTEM. APPROPRIATE RESPONSE MEASURES, INCLUDING ANY REPAIRS TO EXISTING CONTROL MEASURES OR THE IMPLEMENTATION OF ADDITIONAL CONTROL MEASURES, SHALL BE CARRIED OUT BY THE CONTRACTOR WITHOUT DELAY.
8. THE CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES, TO PROVIDE FOR PROTECTION OF THE AREA DRAINAGE SYSTEM AND THE RECEIVING WATERCOURSE, DURING CONSTRUCTION ACTIVITIES. THE CONTRACTOR ACKNOWLEDGES THAT FAILURE TO IMPLEMENT APPROPRIATE EROSION AND SEDIMENT CONTROL MEASURES MAY BE SUBJECT TO PENALTIES IMPOSED BY ANY APPLICABLE REGULATORY AGENCY.
9. ROADWAYS ARE TO BE SWEEP AS REQUIRED OR AS DIRECTED BY THE ENGINEER AND/OR THE MUNICIPALITY.
10. THE CONTRACTOR SHALL ENSURE PROPER DUST CONTROL IS PROVIDED WITH THE APPLICATION OF WATER (AND IF REQUIRED, CALCIUM CHLORIDE) DURING DRY PERIODS. MONITOR DUST LEVELS DURING SITE PREPARATION/EXCAVATION, AND CONSTRUCTION ACTIVITIES, AND WHEN DUST LEVELS BECOME VISUALLY APPARENT SPRAY WATER TO MINIMIZE THE RELEASE OF DUST FROM GRAVEL, PAVED AREAS AND EXPOSED SOILS. USE CHEMICAL DUST SUPPRESSANTS ONLY WHERE NECESSARY ON PROBLEM AREAS.

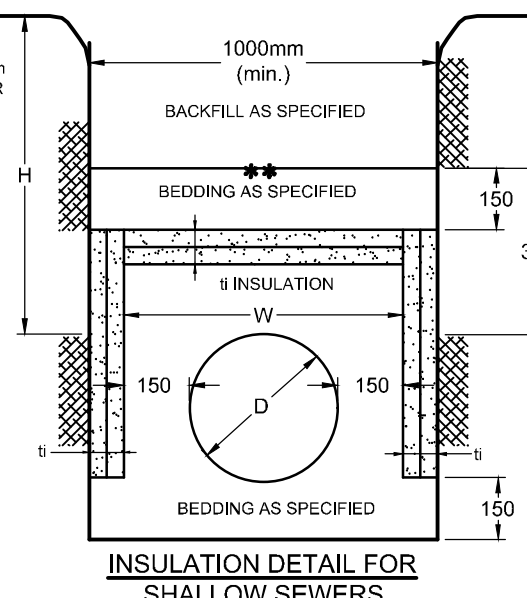
WATERMAIN NOTES:

- 1. SUPPLY AND CONSTRUCT ALL WATERMANS AND APPURTENANCES IN ACCORDANCE WITH THE CITY OF OTTAWA STANDARDS AND SPECIFICATIONS - ALL CURRENT VERSIONS AND 'AS AMENDED'. EXCAVATION, INSTALLATION, BACKFILL AND RESTORATION OF ALL WATERMANS BY THE CONTRACTOR. CONNECTIONS AND SHUT-OFFS AT THE MAIN BY CITY OF OTTAWA FORCES. CHLORINATION OF THE WATER SYSTEM SHALL BE PERFORMED BY THE CONTRACTOR IN THE PRESENCE CITY OF OTTAWA FORCES.
2. SPECIFICATIONS:
ITEM SPEC. No. REFERENCE
WATERMAIN TRENCHING W17 CITY OF OTTAWA
HYDRANT INSTALLATION W19 CITY OF OTTAWA
THERMAL INSULATION IN SHALLOW TRENCHES W23 CITY OF OTTAWA
THERMAL INSULATION AT OPEN STRUCTURES W22 CITY OF OTTAWA
VALVE BOX ASSEMBLY W24 CITY OF OTTAWA
WATERMAIN CROSSING BELOW SEWER W25 CITY OF OTTAWA
WATERMAIN CROSSING OVER SEWER W25.2 CITY OF OTTAWA
CONCRETE THRUST BLOCKS W25.3 & W25.4 CITY OF OTTAWA
CATHODIC PROTECTION W40 CITY OF OTTAWA
ANODE INSTALLATION W42 CITY OF OTTAWA
WATERMAIN MATERIAL PVC DR 18
3. WATERMAIN SHALL BE MINIMUM 2.4m DEPTH BELOW GRADE UNLESS OTHERWISE INDICATED.
4. PROVIDE MINIMUM 0.5m CLEARANCE BETWEEN OUTSIDE OF PIPES AT ALL CROSSINGS, WHERE POSSIBLE UNLESS OTHERWISE INDICATED.
5. WATER SERVICE IS TO BE CONSTRUCTED TO WITHIN 1.0m OF FOUNDATION WALL AND CAPPED, UNLESS OTHERWISE INDICATED.

INSULATION NOTES:

- 1. THE THICKNESS OF SEWER INSULATION SHALL BE THE EQUIVALENT OF 25mm FOR EVERY 300mm REDUCTION IN THE REQUIRED DEPTH OF COVER LESS THAN 1800mm (SEE TABLE BELOW)

Table with 2 columns: COVER (mm) and INSULATION THICKNESS (mm). Rows include 1800-1500, 1500-1200, 1200-900, 900-600.



INLET CONTROL DEVICE DATA TABLE: AREA A-1 (OUTLET PIPE OF CB 01)

Table with 8 columns: DESIGN EVENT, ICD TYPE, DIAMETER OF OUTLET PIPE, PEAK DESIGN FLOW, PEAK DESIGN FLOW, DESIGN HEAD, WATER ELEVATION, VOLUME, AVAILABLE STORAGE.

INLET CONTROL DEVICE DATA TABLE: AREA A-4 (OUTLET PIPE OF STM MH 04)

Table with 8 columns: DESIGN EVENT, ICD TYPE, DIAMETER OF OUTLET PIPE, PEAK DESIGN FLOW, PEAK DESIGN FLOW, DESIGN HEAD, WATER ELEVATION, VOLUME, AVAILABLE STORAGE.

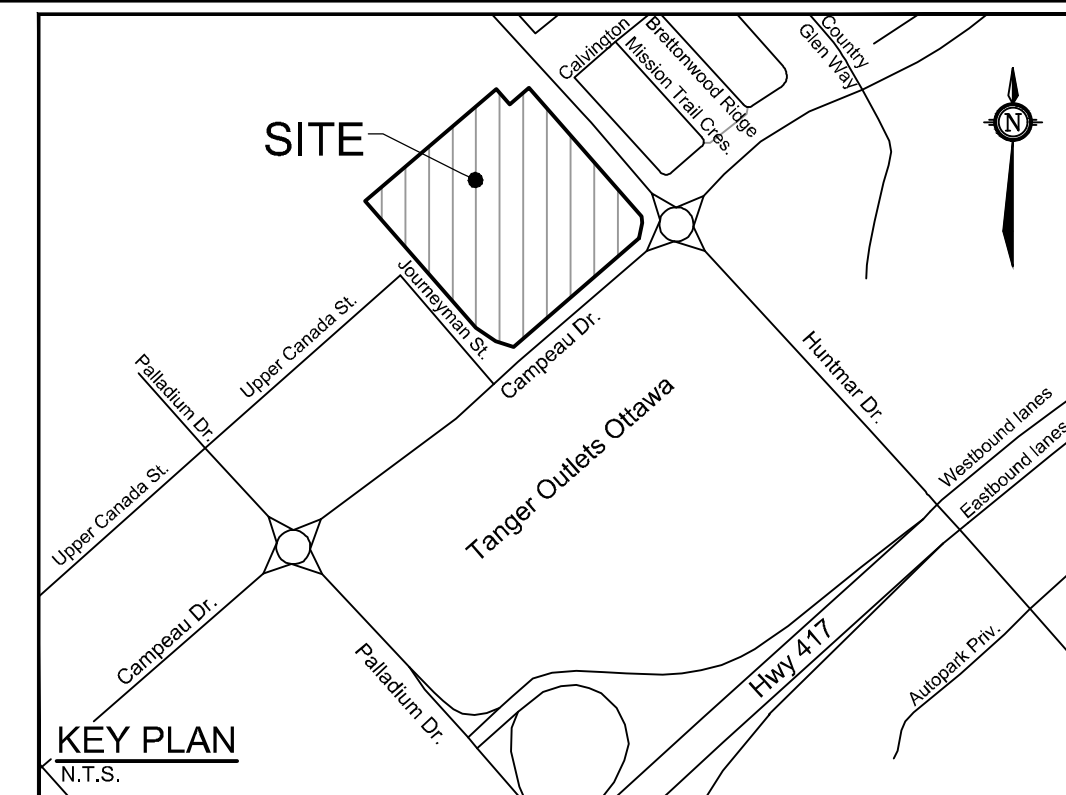
PROPOSED 300mmØ WATERMAIN TABLE: EAST / WEST ON-SITE LOOP

Main table with 4 columns: STATION, SURFACE ELEVATION, TWM ELEVATION, COMMENTS. Contains detailed stationing and elevation data for the watermain loop.

- \* CONNECTIONS TO EXISTING 300mmØ AND 200mmØ WATERMANS. EXACT ELEVATIONS TO BE FIELD DETERMINED.
\*\* PROVIDE THERMAL INSULATION AS PER CITY OF OTTAWA DETAILS W22 IN SHALLOW TRENCHES WHERE COVER IS LESS THAN 2.4m AND/OR W23 ADJACENT TO OPEN STRUCTURES.
\*\*\* PIPE CROSSINGS WITH WATERMANS ARE TO BE IN ACCORDANCE WITH CITY STANDARDS W25 AND W25.2 TO AVOID CONFLICTS, WHERE POSSIBLE.

LEGEND

- SITE BOUNDARY
--- SWALE AND DIRECTION OF FLOW
--- PROPOSED ELEVATION
--- EXISTING ELEVATION
--- PROPOSED SWALE ELEVATION
--- PROPOSED TERRACE ELEVATION
--- MAXIMUM 3:1 SLOPE
--- PARKING GRADE AND DIRECTION
--- FFE PROPOSED FINISHED FLOOR ELEVATION
--- USF PROPOSED UNDER SIDE OF FOOTING ELEVATION
--- PROPOSED BUILDING ENTRANCE
--- PROPOSED LIMIT OF BUILDING OVERHANG
--- TIG TOP OF GRATE ELEVATION
--- MH100 PROPOSED STORM MANHOLE
--- CB PROPOSED CATCHBASIN
--- CB+ PROPOSED CATCHBASIN WITH TEMPORARY SILTSACK
--- CB+T PROPOSED CATCHBASIN TEE
--- CBE+ PROPOSED CATCHBASIN ELBOW
--- PROPOSED STORM SEWER AND DIRECTION OF FLOW
--- PROPOSED CATCHBASIN LEAD AND DIRECTION OF FLOW
--- PROPOSED CATCHBASIN SUBDRAIN AND DIRECTION OF FLOW
--- MH101 PROPOSED SANITARY MANHOLE
--- PROPOSED SANITARY SEWER AND DIRECTION OF FLOW
--- PROPOSED WATERMAIN
--- BEND PROPOSED BEND AND THRUSTBLOCK 11.25', 22.5', 45' OR TEE
--- VVB PROPOSED VALVE AND VALVE BOX
--- HYD PROPOSED HYDRANT C/W VALVE & LEAD
--- PROPOSED CAP
--- PIPE CROSSING LOCATION
--- PROPOSED ROOF DRAIN
--- PROPOSED DEPRESSED CURB
--- TACTILE WALKING SURFACE INDICATOR (TWSI)
--- CURB CUTOFF
--- PROPOSED LIGHT STANDARD
--- PROPOSED SIAMISE CONNECTION
--- PROPOSED GAS METER LOCATION
--- PROPOSED HYDRO METER LOCATION
--- PROPOSED TRANSFORMER PAD & BOLLARDS
--- CLAY DIKE AS PER CITY DETAIL S8
--- SILT FENCE AS PER OPSD 219.110
--- MAJOR OVERLAND FLOW ROUTE
--- STRAW BALES AS PER OPSD 219.100
--- CONSTRUCTION ACCESS MUD MAT
--- PROPOSED INLET CONTROL DEVICE
--- APPROXIMATE PONDING LIMITS
--- STORM DRAINAGE BOUNDARY
--- AREA (ha) SUB-CATCHMENT AREA ID 1:5 YR POST-DEVELOPMENT RUNOFF COEFFICIENT
--- EXISTING ELEVATION
--- EXISTING STORM MANHOLE AND SEWER
--- EXISTING SANITARY MANHOLE AND SEWER
--- EXISTING WATERMAIN
--- EXISTING WATER MANHOLE
--- EXISTING VALVE AND VALVE BOX
--- EXISTING FIRE HYDRANT
--- EXISTING CATCHBASIN
--- EXISTING TOP OF GRATE
--- EXISTING UTILITY POLE C/W GUY WIRES
--- EXISTING LIGHT STANDARD
--- EXISTING TRAFFIC STREET LIGHT
--- EXISTING FENCE
--- EXISTING UNDERGROUND GASMAIN
--- EXISTING UNDERGROUND HYDRO
--- EXISTING UNDERGROUND BELL CABLE
--- EXISTING BELL PEDESTAL
--- EXISTING TREES / SHRUBS
--- HEAVY DUTY ASPHALT/FIRE ROUTE
--- INTERLOCK PAVING STONES
--- ROADCUT REINSTATEMENT
--- WATERMAIN INSULATION AREA AS PER CITY OF OTTAWA DETAIL W22



BENCHMARK INFO:

OLS JOB BENCHMARK No. 2 ON THE TOP OF SPINDLE OF THE EXISTING MUNICIPAL FIRE HYDRANT LOCATED NEAR THE NORTH-EAST CORNER OF THE INTERSECTION OF JOURNEYMAN STREET AND CAMPEAU DRIVE. GEODETIC ELEVATION = 102.58m. (JOB BENCHMARKS No. 1 + No. 3 & 4 ARE ALSO SHOWN ON THE SURVEYOR'S PLAN Ref. No. 2334-22 Rosefellow PL 4 CI HU T DJ)
ALL ELEVATIONS ARE REFERRED TO THE CGVD28 GEODETIC DATUM. BEARINGS ARE GRID, DERIVED FROM THE NORTHERLY LIMIT OF CAMPEAU DRIVE SHOWN TO BE N48°07'05"E ON PLAN IR-28637 AND ARE REFERRED TO THE CENTRAL MERIDIAN OF NITM ZONE 9 (76°30' WEST LONGITUDE) NAD-83 (ORIGINAL)
THE EXISTING GRADES SHOWN ON THE PLANS ARE TAKEN DIRECTLY FROM TOPOGRAPHICAL SURVEY PLAN (Ref. No. 2334-22 Rosefellow PL 4 CI HU T DJ), PREPARED BY ANNIS, O'SULLIVAN, VOLLEBEK SIGNED AND DATED SEPTEMBER 27, 2022.
SURROUNDING BACKGROUND TOPO INFORMATION BEYOND THE LIMITS OF THE SITE SURVEY ARE SHOWN FROM CITY OF OTTAWA 1:2000 MAPPING FOR CONTEXT ONLY.

PROPOSED 300mmØ WATERMAIN TABLE: OFF-SITE EXTENSION

Table with 4 columns: STATION, SURFACE ELEVATION, TWM ELEVATION, COMMENTS. Contains data for the off-site extension of the watermain.

- \* CONNECTIONS TO EXISTING 300mmØ AND 200mmØ WATERMANS. EXACT ELEVATIONS TO BE FIELD DETERMINED.
\*\* PROVIDE THERMAL INSULATION AS PER CITY OF OTTAWA DETAILS W22 IN SHALLOW TRENCHES WHERE COVER IS LESS THAN 2.4m AND/OR W23 ADJACENT TO OPEN STRUCTURES.
\*\*\* PIPE CROSSINGS WITH WATERMANS ARE TO BE IN ACCORDANCE WITH CITY STANDARDS W25 AND W25.2 TO AVOID CONFLICTS, WHERE POSSIBLE.

CRITICAL SEWER PIPE CROSSING TABLE

Table with 5 columns: CROSSING, LOWER PIPE, HIGHER PIPE, CLEARANCE, SURFACE ELEVATION. Lists critical sewer pipe crossings with clearance and elevation data.

\* SEE 122151-GP1 AND GP2 PLANS FOR SEWER CROSSING LOCATIONS

ALL PROJECT NOTES, DETAILS AND SPECIFICATIONS ARE TO MEET THE MOST CURRENT AND AMENDED VERSIONS OF THE CITY OF OTTAWA AND PROVINCIAL STANDARDS

THIS PLAN IS TO BE READ IN CONJUNCTION WITH CIVIL PLANS 122151-GP1&2, 122151-GR1&2 AND 122151-PR1

Scale and revision table with columns for No., REVISION, DATE, BY.

FOR REVIEW ONLY section containing professional engineer stamps and approval marks.

Location and drawing information section including City of Ottawa address, drawing name, and project details.

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