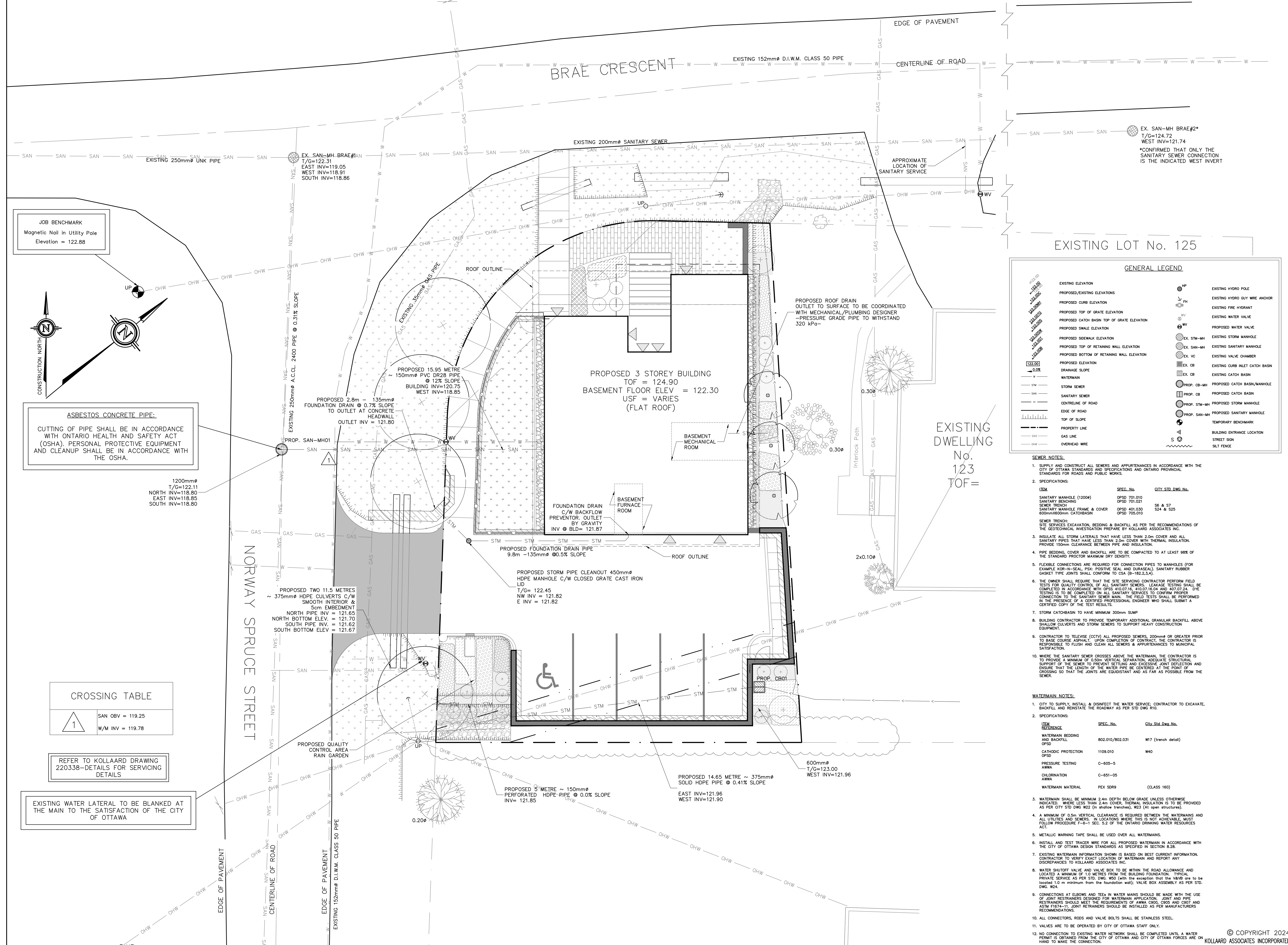


1:100 METRES

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14. This drawing is part of Kollaard Associates design report # 220338.



JOB BENCHMARK
Magnetic Nail in Utility Pole
Elevation = 122.88

ASBESTOS CONCRETE PIPE:
CUTTING OF PIPE SHALL BE IN ACCORDANCE WITH ONTARIO HEALTH AND SAFETY ACT (OSHA). PERSONAL PROTECTIVE EQUIPMENT AND CLEANUP SHALL BE IN ACCORDANCE WITH THE OSHA.

1200mm#
T/G=122.11
NORTH INV=118.80
EAST INV=118.85
SOUTH INV=118.80

CROSSING TABLE
SAN OBV = 119.25
W/M INV = 119.78

REFER TO KOLLAARD DRAWING 220338-DETAILS FOR SERVICING DETAILS

EXISTING WATER LATERAL TO BE BLANKED AT THE MAIN TO THE SATISFACTION OF THE CITY OF OTTAWA

EXISTING LOT No. 125
GENERAL LEGEND
EXISTING ELEVATION
PROPOSED CURB ELEVATION
PROPOSED TOP OF GRATE ELEVATION
PROPOSED CATCH BASIN TOP OF GRATE ELEVATION
PROPOSED SIDEWALK ELEVATION
PROPOSED TOP OF RETAINING WALL ELEVATION
PROPOSED BOTTOM OF RETAINING WALL ELEVATION
PROPOSED ELEVATION
WATERMAIN
STORM SEWER
SANITARY SEWER
CENTRELINE OF ROAD
EDGE OF ROAD
TOP OF SLOPE
PROPERTY LINE
GAS LINE
OVERHEAD WIRE

- SEWER NOTES:
1. SUPPLY AND CONSTRUCT ALL SEWERS AND APPURTENANCES IN ACCORDANCE WITH THE CITY OF OTTAWA STANDARDS AND SPECIFICATIONS AND ONTARIO PROVINCIAL STANDARDS FOR ROADS AND PUBLIC WORKS.
2. SPECIFICATIONS:
ITEM SPEC. No. CITY STD. DWG. No.
SANITARY MANHOLE (1200#) OPSD 701.010
SANITARY BENCHING OPSD 701.031
SEWER TRENCH OPSD 401.030
SANITARY MANHOLE FRAME & COVER OPSD 401.030
600mmx600mm CATCHBASIN OPSD 702.010
SEWER TRENCH:
SITE SERVICES EXCAVATION, BEDDING & BACKFILL AS PER THE RECOMMENDATIONS OF THE GEOTECHNICAL INVESTIGATION PREPARED BY KOLLAARD ASSOCIATES INC.
3. INSULATE ALL STORM LATERALS THAT HAVE LESS THAN 2.0m COVER AND ALL SANITARY PIPES THAT HAVE LESS THAN 2.0m COVER WITH THERMAL INSULATION. PROVIDE 150mm CLEARANCE BETWEEN PIPE AND INSULATION.
4. PIPE BEDDING, COVER AND BACKFILL ARE TO BE COMPACTED TO AT LEAST 98% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY.
5. FLEXIBLE CONNECTIONS ARE REQUIRED FOR CONNECTION PIPES TO MANHOLES (FOR EXAMPLE KOR-N-SEAL, PSR, POSITIVE SEAL AND DURASEAL). SANITARY RUBBER GASKET TYPE JOINTS SHALL CONFORM TO CSA (9-182.3.4).
6. 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 OPSD 402.014, 410.014 AND 407.024. DYE TESTING IS TO BE COMPLETED ON ALL SANITARY SERVICES TO CONFIRM PROPER CONNECTION TO THE SANITARY SEWER MAIN. THE DYE TESTS SHALL BE PERFORMED IN THE PRESENCE OF A CERTIFIED PROFESSIONAL ENGINEER WHO SHALL SUBMIT A CERTIFIED COPY OF THE TEST RESULTS.
7. STORM CATCHBASIN TO HAVE MINIMUM 300mm SLUMP.
8. BUILDING CONTRACTOR TO PROVIDE TEMPORARY ADDITIONAL GRANULAR BACKFILL ABOVE SHALLOW CULVERTS AND STORM SEWERS TO SUPPORT HEAVY CONSTRUCTION EQUIPMENT.
9. CONTRACTOR TO TELEPHONE (CCTV) ALL PROPOSED SEWERS, 200mm# OR GREATER PRIOR TO BASE COURSE ASPHALT. UPON COMPLETION OF CONTRACT, THE CONTRACTOR IS RESPONSIBLE TO FLUSH AND CLEAN ALL SEWERS & APPURTENANCES TO MUNICIPAL SATISFACTION.
10. WHERE THE SANITARY SEWER CROSSES ABOVE THE WATERMAIN, THE CONTRACTOR IS TO PROVIDE A MINIMUM OF 0.5m VERTICAL CLEARANCE. ADEQUATE STRUCTURAL SUPPORT OF THE SEWER TO PREVENT SETTLING AND EXCESSIVE JOINT DEFLECTION AND ENSURE THAT THE LENGTH OF THE WATER PIPE BE CENTERED AT THE POINT OF CROSSING SO THAT THE JOINTS ARE EQUIDISTANT AND AS FAR AS POSSIBLE FROM THE SEWER.

- WATERMAIN NOTES:
1. CITY TO SUPPLY, INSTALL & DISINFECT THE WATER SERVICE. CONTRACTOR TO EXCAVATE, BACKFILL AND REINSTATE THE ROADWAY AS PER STD DWG R10.
2. SPECIFICATIONS:
ITEM REFERENCE SPEC. No. City Std. DWG. No.
WATERMAIN BEDDING AND BACKFILL OPSD 802.010/802.031 W17 (trench detail)
CATHODIC PROTECTION OPSD 1109.010 W40
PRESSURE TESTING AWWA C-605-5
COLORIZATION AWWA C-651-05
WATERMAIN MATERIAL PEX SDR9 (CLASS 160)
3. WATERMAIN SHALL BE MINIMUM 2.4m DEPTH BELOW GRADE UNLESS OTHERWISE INDICATED. WHERE LESS THAN 2.4m COVER, THERMAL INSULATION IS TO BE PROVIDED AS PER CITY STD DWG W22 (in shallow trenches), W23 (in open structures).
4. A MINIMUM OF 0.5m VERTICAL CLEARANCE IS REQUIRED BETWEEN THE WATERMANS AND ALL UTILITIES AND SERVICES. IN LOCATIONS WHERE THIS IS NOT ACHIEVABLE, MUST FOLLOW PROCEDURE F-6-1 SEC. 5.2 OF THE ONTARIO DRINKING WATER RESOURCES ACT.
5. METALLIC WARNING TAPE SHALL BE USED OVER ALL WATERMANS.
6. INSTALL AND TEST TRACER WIRE FOR ALL PROPOSED WATERMAIN IN ACCORDANCE WITH THE CITY OF OTTAWA DESIGN STANDARDS AS SPECIFIED IN SECTION 8.28.
7. EXISTING WATERMAIN INFORMATION SHOWN IS BASED ON BEST CURRENT INFORMATION. CONTRACTOR TO VERIFY EXACT LOCATION OF WATERMAIN AND REPORT ANY DISCREPANCIES TO KOLLAARD ASSOCIATES INC.
8. WATER SHUTOFF VALVE AND VALVE BOX TO BE WITHIN THE ROAD ALLOWANCE AND LOCATED A MINIMUM OF 1.0 METRES FROM THE BUILDING FOUNDATION. TYPICAL PRIVATE SERVICE AS PER STD. DWG. W50 (with the exception that the valve are to be located 1.0 m minimum from the foundation walls). VALVE BOX ASSEMBLY AS PER STD. DWG. W24.
9. CONNECTIONS AT ELBOWS AND TEES IN WATER MAINS SHOULD BE MADE WITH THE USE OF JOINT RESTRAINTS DESIGNED FOR WATERMAIN APPLICATION. JOINT AND PIPE RESTRAINTS SHOULD MEET THE REQUIREMENTS OF AWWA C900, C905 AND C907 AND ASTM F1814-11. JOINT RESTRAINTS SHOULD BE INSTALLED AS PER MANUFACTURERS RECOMMENDATIONS.
10. ALL CONNECTORS, RODS AND VALVE BOLTS SHALL BE STAINLESS STEEL.
11. VALVES ARE TO BE OPERATED BY CITY OF OTTAWA STAFF ONLY.
12. NO CONNECTION TO EXISTING WATER NETWORK SHALL BE COMPLETED UNTIL A WATER PERMIT IS OBTAINED FROM THE CITY OF OTTAWA AND CITY OF OTTAWA FORCES ARE ON HAND TO MAKE THE CONNECTION.

Kollaard Associates Engineers
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KEMPVILLE, ONTARIO
K0G 1J0 FAX (613) 258-0475
http://www.kollaard.ca

CLIENT:
BRYDEN GIBSON

PROJECT:
PROPOSED 3 STOREY RESIDENTIAL DEVELOPMENT

LOCATION:
121 BREA CRESCENT, STITTSVILLE, ON, K2S 1P1

DESIGNED BY: SD
CHECKED BY: SD
DRAWN BY: JR
APPROVED BY: SD
DATE: MAY 12, 2023
KOLLAARD FILE NUMBER: 220338

DRAWING NUMBER: 220338-SER
DRAWING NAME: SITE SERVICING PLAN



SCALE: AS NOTED

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No.	REVISION	DATE	BY
3	UPDATED SITE PLAN	2024/09/03	AVB
2	RESPONSE TO REVIEW COMMENTS	2024/05/22	AVB
1	RESPONSE TO REVIEW COMMENTS	2024/01/12	AVB
0	ISSUED FOR SITE PLAN CONTROL	2023/05/10	AVB
#	REVISION ITEM / DESCRIPTION	REV. DATE	INT.

Kollaard Associates
Engineers
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info@kollaard.ca

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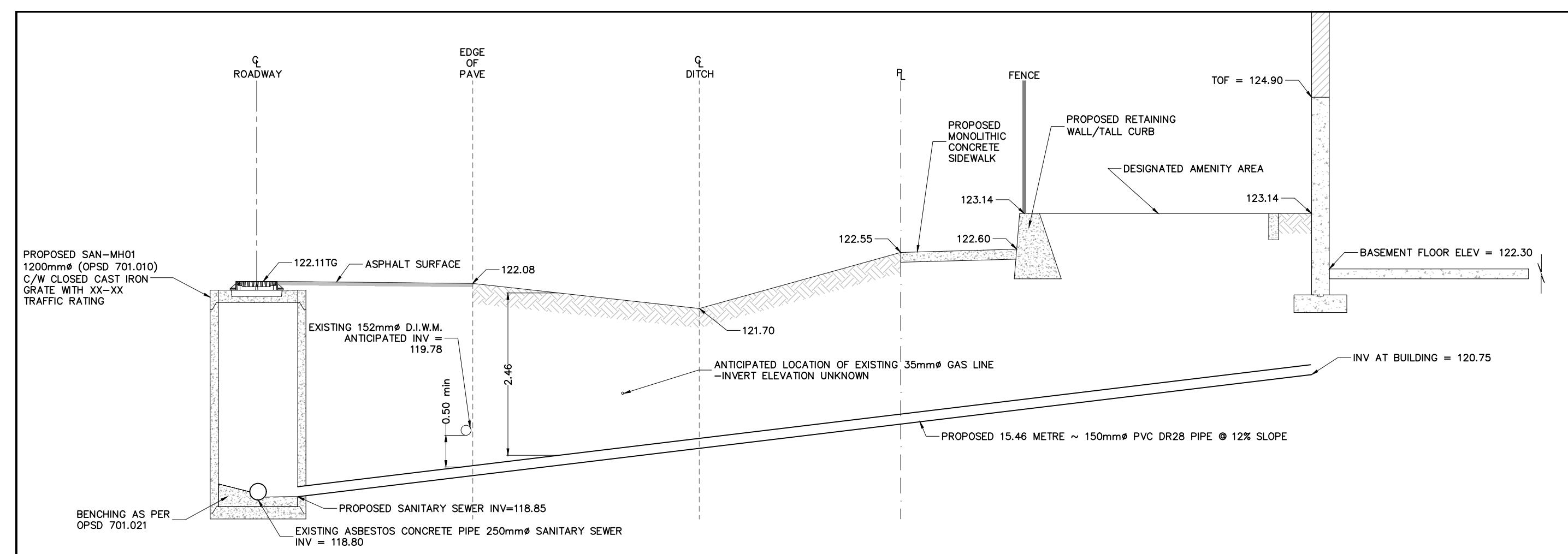
CLIENT:
BRYDEN GIBSON

PROJECT:
PROPOSED 3 STOREY RESIDENTIAL DEVELOPMENT

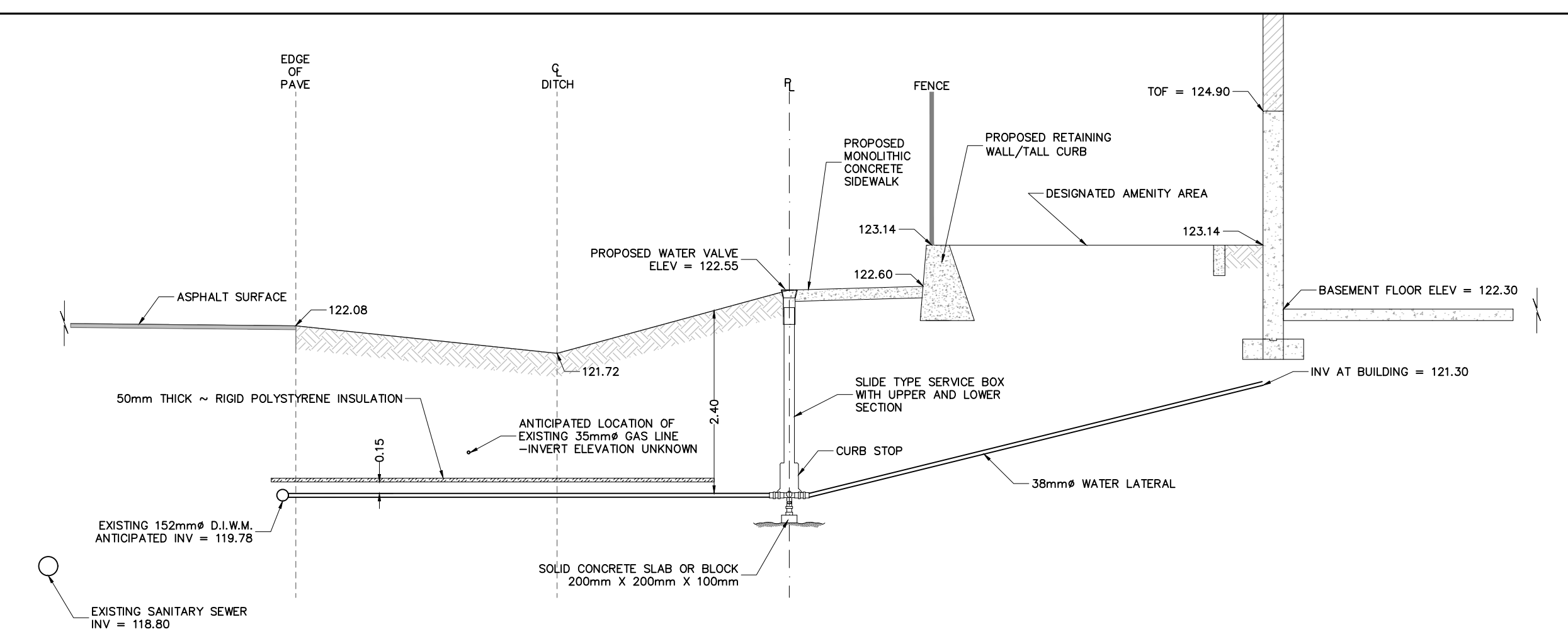
LOCATION:
121 BREA CRESCENT, STITTSVILLE, ON, K2S 1P1

DESIGNED BY: SD
CHECKED BY: SD
DRAWN BY: JR
APPROVED BY: SD
DATE: MAY 12, 2023
KOLLAARD FILE NUMBER: 220338

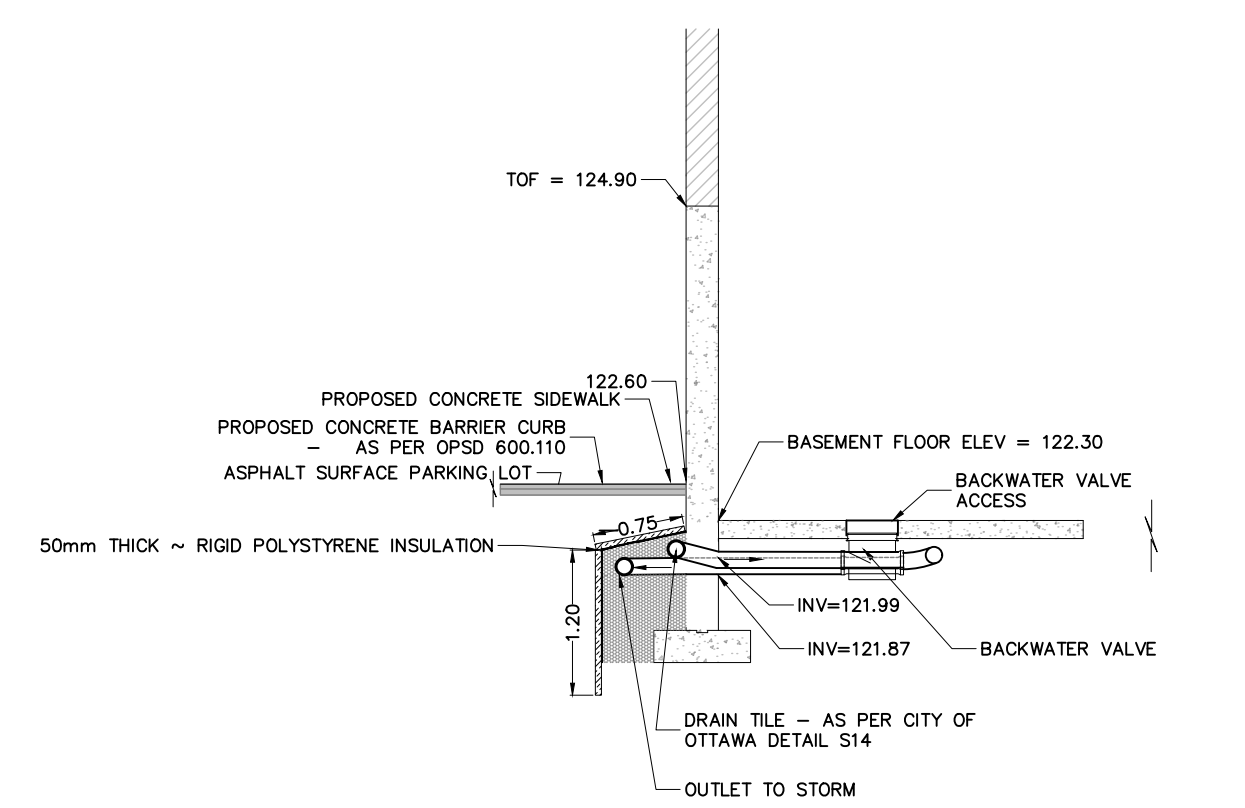
DRAWING NUMBER: 220338-DETAILS
DRAWING NAME: DETAILS



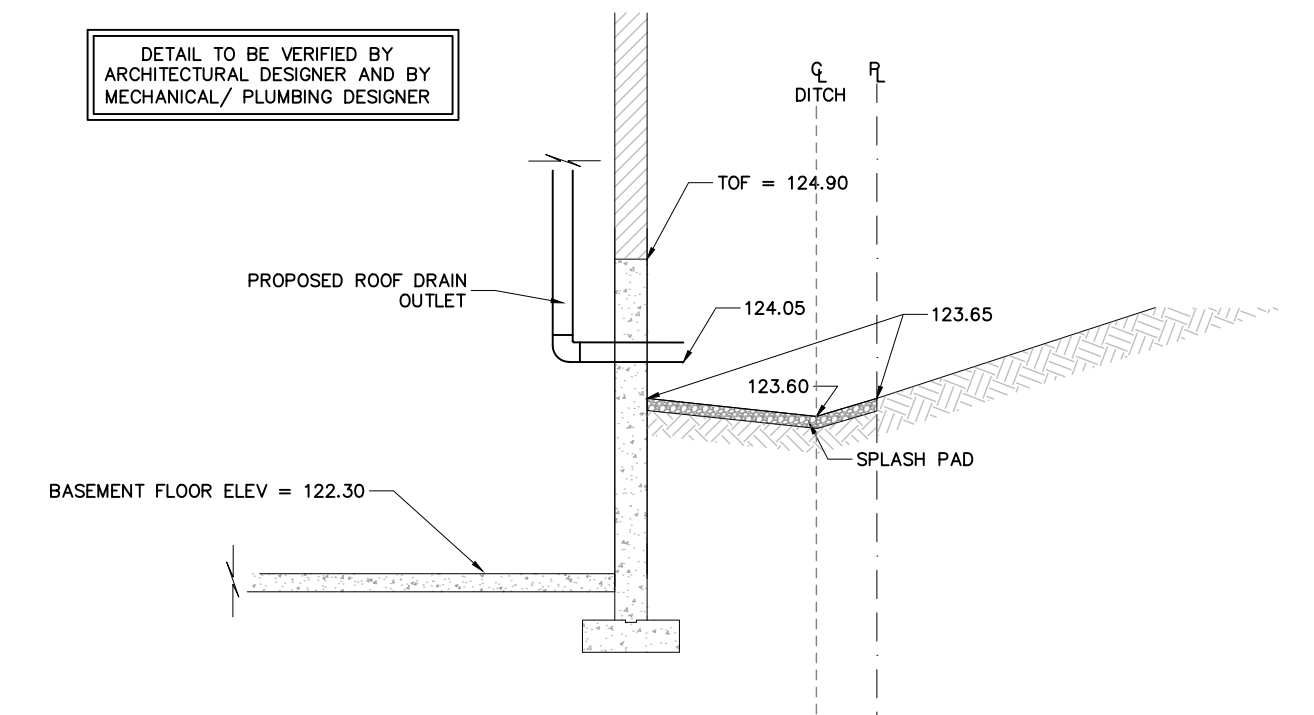
SANITARY SERVICE CONNECTION
N.T.S.



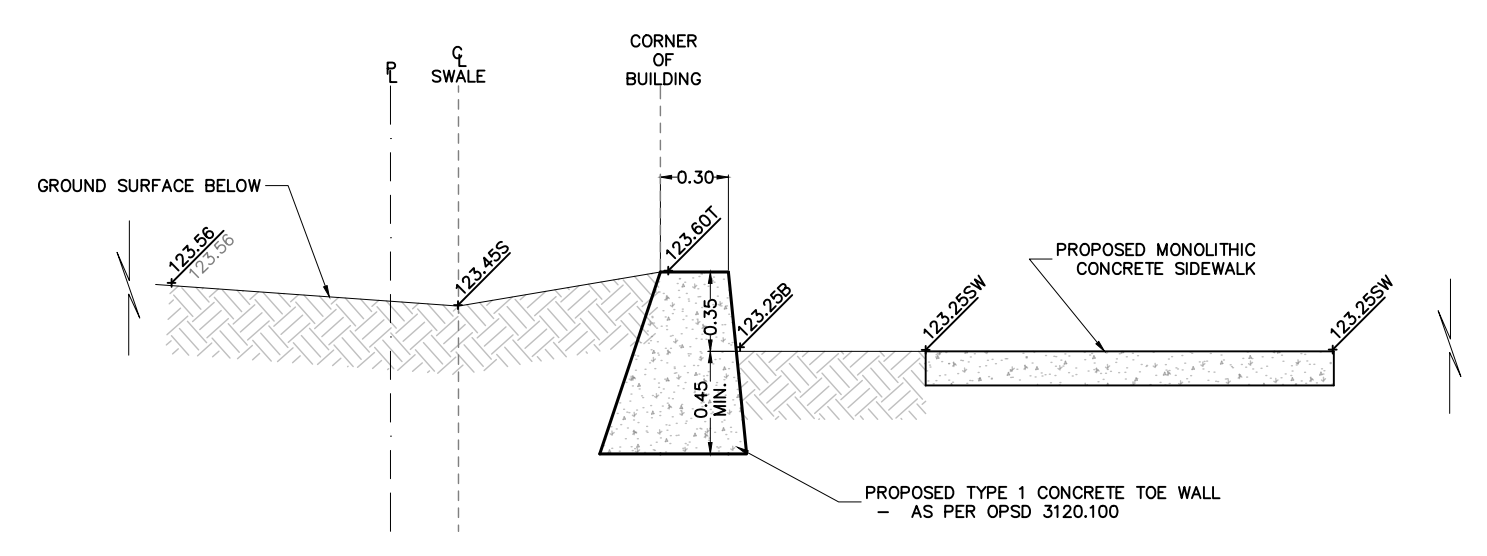
WATER SERVICE CONNECTION
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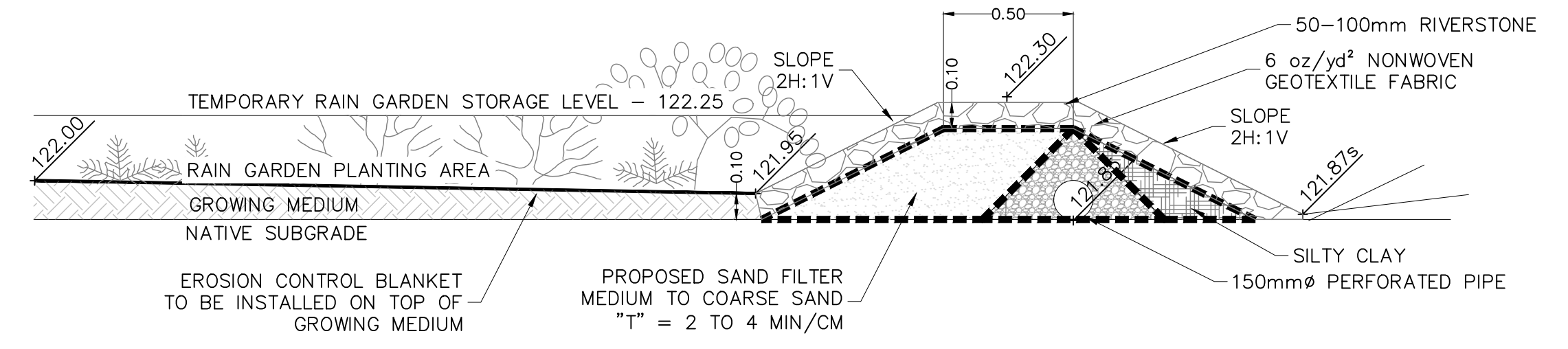
FOUNDATION DRAIN SECTION F-F
N.T.S.



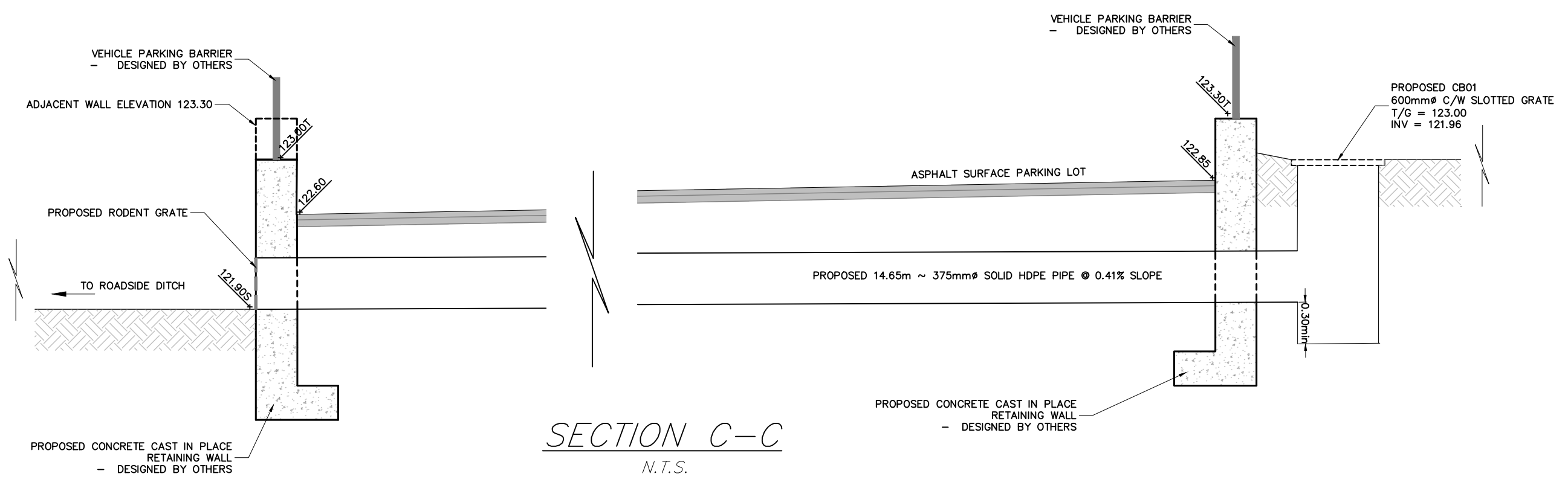
ROOF DRAIN OUTLET
N.T.S.



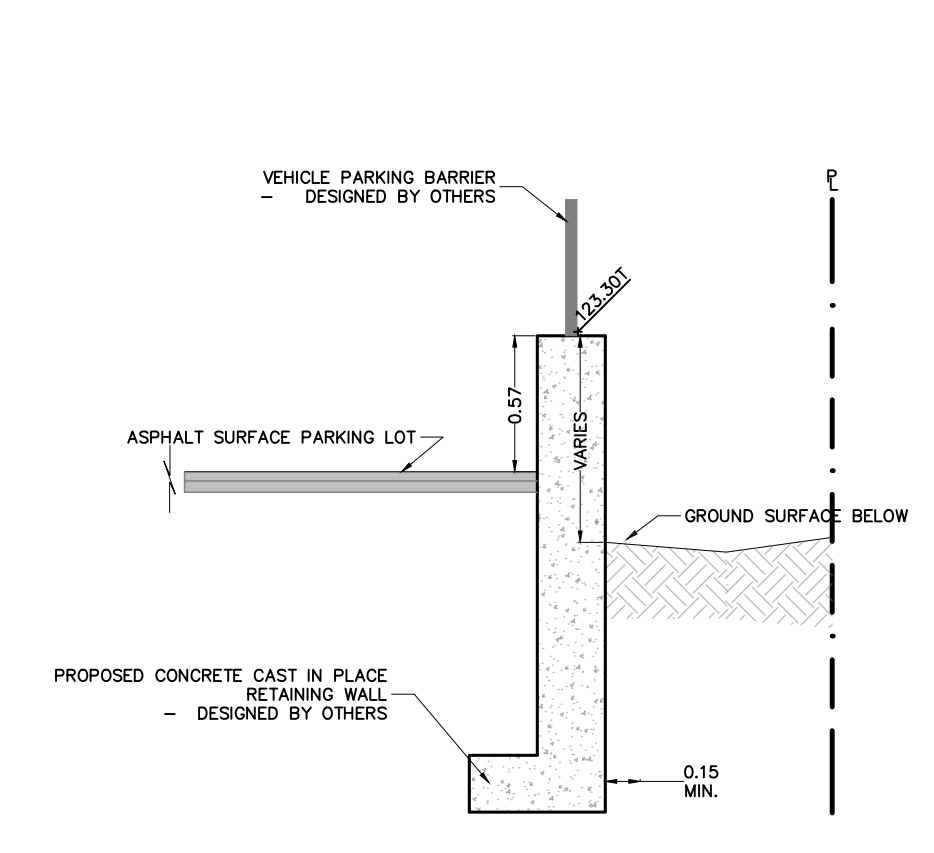
SECTION D-D
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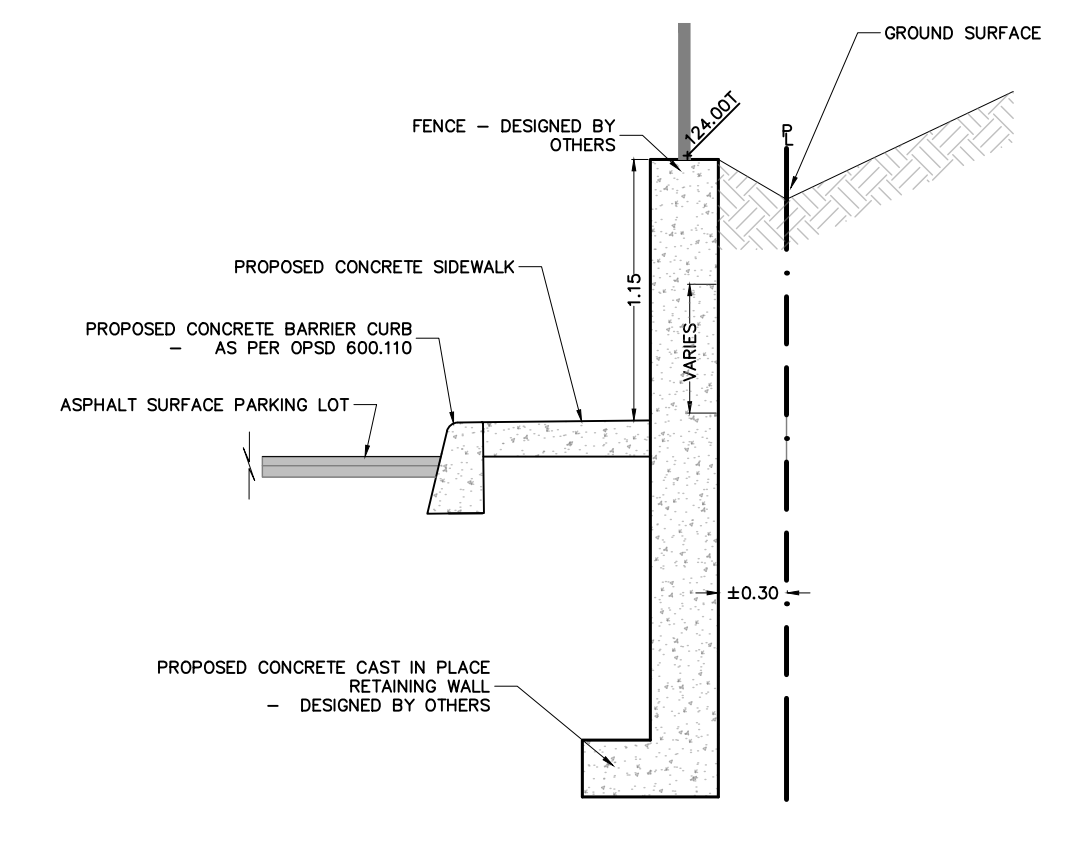
PROPOSED RAIN GARDEN AREA SECTION E-E
N.T.S.



SECTION C-C
N.T.S.



SECTION A-A
N.T.S.



SECTION B-B
N.T.S.

DETAILS
NOT TO SCALE