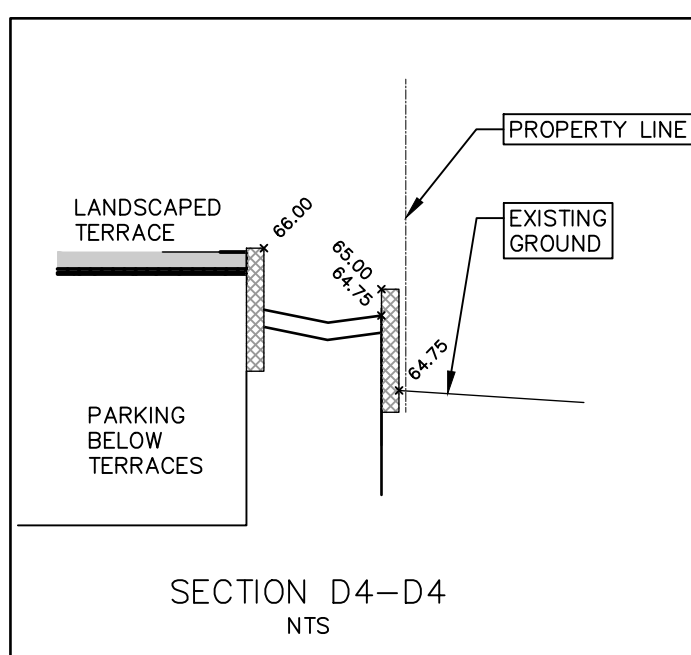
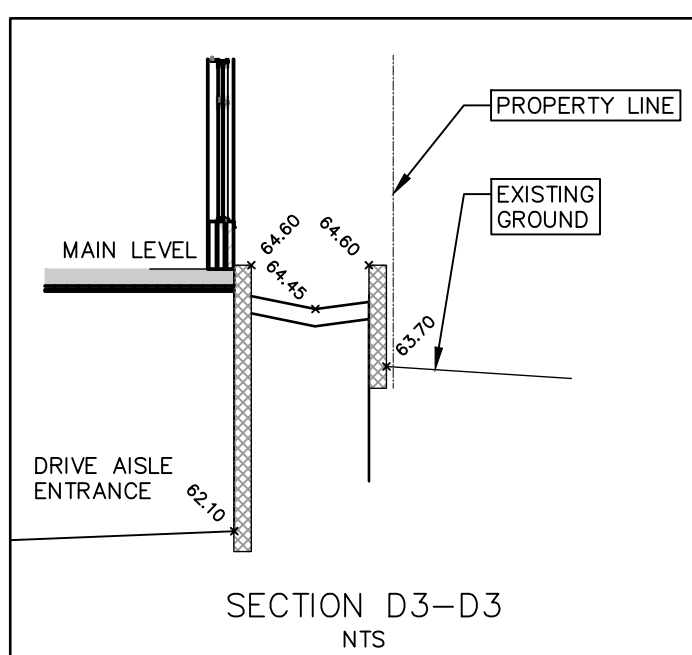
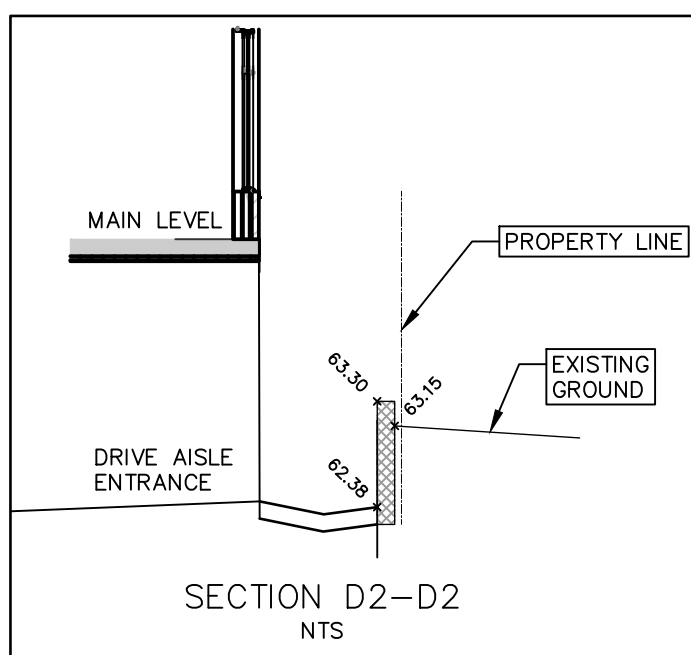
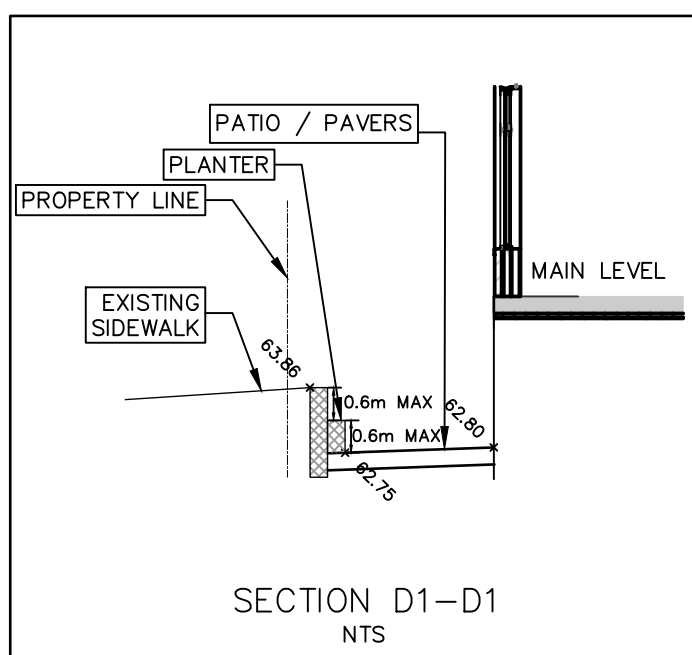


 200mm^ø SAN	SANITARY SEWER
 825mm^ø ST	STORM SEWER - LESS THAN 9000
 CMBH100 T/O 103.59  T/O 104.35	CATCHBASIN MANHOLE C/W TOP OF GRATE REAR YARD "TEE" CATCHBASIN C/W TOP OF GRATE (3000)
 ECB T/O 104.50	REAR YARD "END" CATCHBASIN C/W TOP OF GRATE (3000)
 CAB T/O 104.35  T/O 104.50	REAR YARD "CUSTOM ANGLED" CATCHBASIN C/W TOP OF GRATE
 CAB T/O 104.35  T/O 104.50	REAR YARD "THREE WAY" CATCHBASIN C/W TOP OF GRATE
	CATCHBASIN (3000) C/W TOP OF GRATE
200^ø WATERMAIN	WATERMAIN
 104.62	PROPOSED SPOT GRADE
	SLOPE C/W FLOW DIRECTION
	BARRIER CURB
	DEPRESSED BARRIER CURB
	RETAINING WALL
 104.40  104.50  103.59	PROPOSED SWALE GRADE
	PROPOSED SWALE HIGH POINT GRADE
104.60 103.59	LOT CORNER GRADE C/W EXISTING GRADE
86.45 EX 	TIE TO EXISTING GRADE
	PRESSURE REDUCING VALVE
105.30	TOP OF RETAINING WALL GRADE

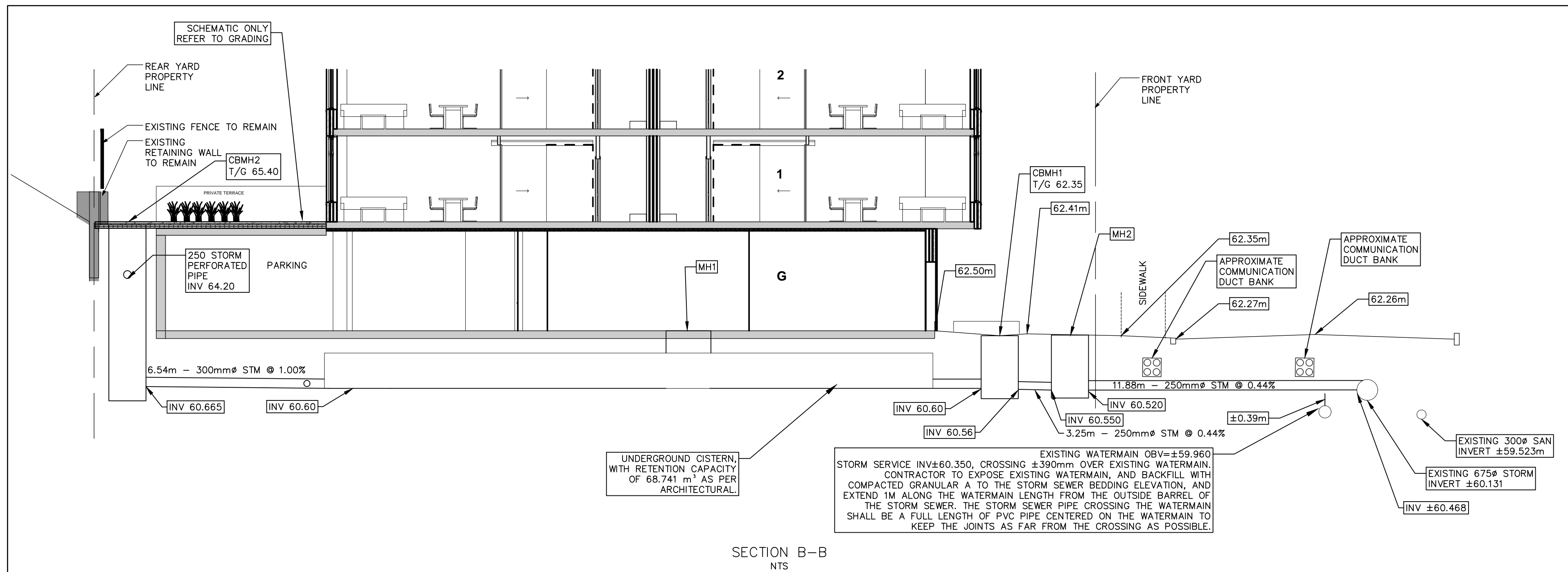
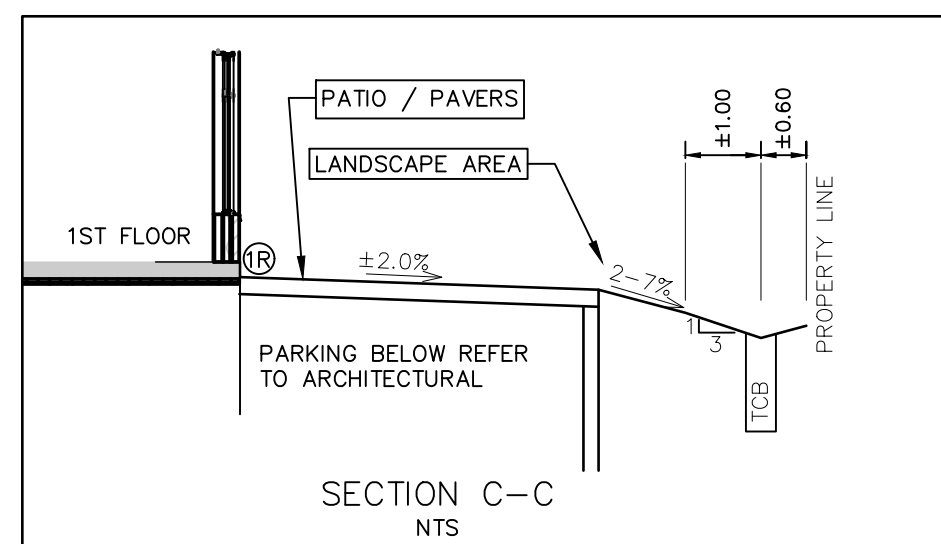
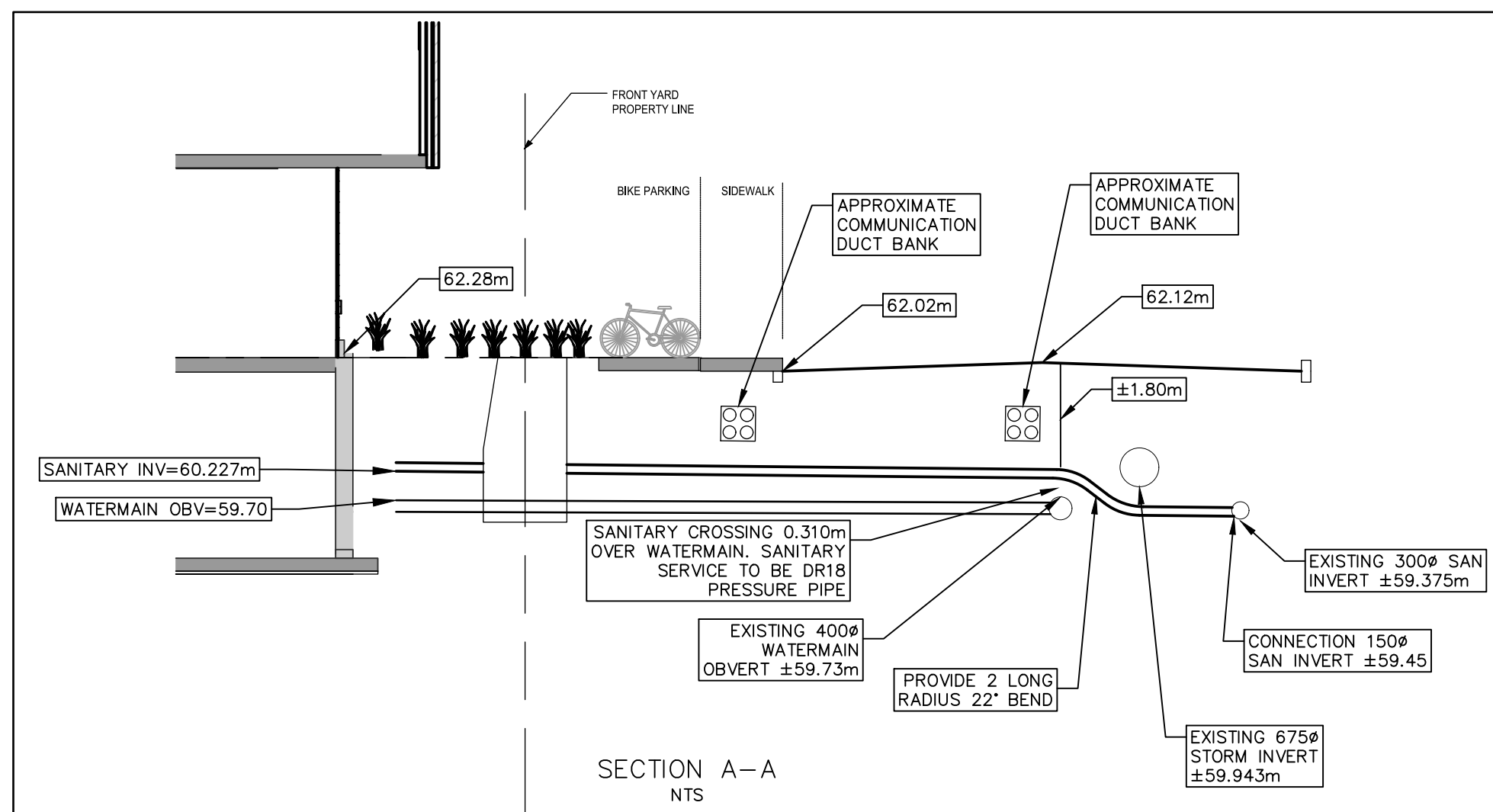


LOCAL ROAD : (425mm)

125mm	- SUPERPAVE 12.5 ASPHALTIC CONCRETE
300mm	- OPSS GRANULAR "A" CRUSHED STONE

1. ALL MATERIALS AND CONSTRUCTION IS TO BE IN ACCORDANCE WITH THE CURRENT CITY OF OTTAWA STANDARD DRAWINGS & SPECIFICATIONS OR OPSD/SPS IF CITY DRAWINGS AND SPECIFICATIONS DO NOT APPLY.
2. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE EXACT LOCATION, SIZE, MATERIAL, AND ELEVATION OF ALL EXISTING SERVICES AND UTILITIES PRIOR TO CONSTRUCTION AND SHALL PROTECT AND ASSUME RESPONSIBILITY FOR ALL UTILITIES WHETHER OR NOT SHOW ON THESE DRAWINGS.
3. FOR GEOTECHNICAL INFORMATION REFER TO GEOTECHNICAL REPORT PQ4821.1 PREPARED BY PATERSON GROUP.
4. FOR GEODETIC BENCHMARK AND GEOMETRIC LAYOUT OF STREET AND LOTS, REFER TO TOPOGRAPHICAL SURVEY AND LEGAL PLAN PREPARED BY ANNEC OUSILLIUM VOLLEBEK LTD. BENCHMARK BASED ON CAN-NET VIRTUAL REFERENCE SYSTEM NETWORK.
5. ROADWAY SECTIONS REQUIRED GRADE RAISE TO PROPOSED SUB GRADE LEVEL TO BE FILLED WITH ACCEPTABLE NATIVE EARTH BORROW OR IMPOSED OPSD SELECTED SUBGRADE MATERIAL IF NATIVE MATERIAL IS DEFICIENT AS PER RECOMMENDATION OF GEOTECHNICAL ENGINEER.
6. IN AREAS WHERE EXISTING GROUND IS BELOW THE PROPOSED ELEVATION OF SEWER AND WATERMANS, GRADE RAISING AND FILLING IS TO BE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT. AS PER CITY GUIDELINES ALL WATERMANS IN FILL AREAS ARE TO BE TIED WITH RESTRAINING JOINTS AND THRUST BLOCKS.
7. LANDSCAPED AREAS TO BE GRADED BETWEEN 2.0% AND 7.0%, OR TERRACING AT A MAXIMUM SLOPE OF 3:1. CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE AWAY FROM ALL FOUNDATIONS, AND SHALL ENSURE THAT NO DRAINAGE IS DIRECTED TOWARDS NEIGHBOURING PROPERTIES. THERE SHALL BE NO ALTERATION OF EXISTING GRADES ALONG THE PROPERTY BOUNDARIES.
8. SILT FENCE TO BE TO BE ERECTED PRIOR TO EARTH WORKS BEING COMMENCED. SILT FENCE TO BE MAINTAINED TO PREVENT EROSION OR ESTABLISHED OR UNTIL START OF SUBSEQUENT PHASE PER THE SEDIMENT AND EROSION CONTROL PLAN.
9. STRAW BALE SEDIMENT TRAPS TO BE PLACED AND MAINTAINED IN EXISTING AND NEWLY EXPOSED ROADSIDE DITCHES. TRAPS TO REMAIN AND BE MAINTAINED UNTIL VEGETATION IS ESTABLISHED (IF APPLICABLE) PER THE SEDIMENT AND EROSION CONTROL PLAN.
10. SILT SACK TO BE PLACED AND MAINTAINED UNDER COVER OF ALL CATCHBASINS, GEOTEXTILE SILT SACK IN STREET C&B TO REMAIN UNTIL ALL CURBS ARE CONSTRUCTED. GEOTEXTILE PLACED IN RYCB&B TO REMAIN UNTIL VEGETATION IS ESTABLISHED. ALL CATCHBASINS TO BE REGULARLY INSPECTED BUT NOT MAINTAINED ANY UNTIL SOD AND CURBS ARE CONSTRUCTED PER THE SEDIMENT AND EROSION CONTROL PLAN.
11. ALL CONNECTIONS TO EXISTING WATERMANS ARE TO BE COMPLETED BY CITY FORCES. CONTRACTOR IS TO EXCAVATE, BACKFILL, COMPACT AND REINSTATE.
12. ALL LEADS FOR STREET C&B TO AND CIB&B CONNECTED TO MAIN SHALL BE 250mm PVC DR35 @ MIN 1% SLOPE UNLESS NOTED ON THIS DRAWING. ALL LEADS FOR RYCB&B CONNECTED TO MAIN SHALL BE 200mm PVC DR35 @ MIN 1% SLOPE UNLESS NOTED OTHERWISE.
13. THESE DRAWINGS ARE NOT TO BE SCALED OR USED FOR LOCALITY PURPOSES.
14. THIS DRAWING IS A COMPILATION OF OTHER UTILITY DESIGNS AND DOES NOT INDICATE IN ANY WAY THAT THE PARTY SIGNING THIS DRAWING HAS DESIGNED OR APPROVED THE RELEVANT UTILITY INSTALLATION OR THE INFORMATION ON THIS DRAWING. THE DRAWING WAS PREPARED TO BE USED AS REFERENCE ONLY AS PER REQUIREMENTS OF THE CITY OF OTTAWA. IT IS THE CONTRACTORS RESPONSIBILITY TO ENSURE IT HAS REVIEWED THE CURRENT AND EXISTING DESIGNS BY HYDRO, STREET LIGHTING, BELL, CANADA POST, C.O. TRANSPO, CATCH BASINS AND ANY OTHER PARTIES INCLUDED BUT NOT MENTIONED AND COMPLETE THE INSTALLATION IN ACCORDANCE WITH THE REQUIREMENTS OF THE STAKEHOLDER UTILITY DESIGNS.
15. ALL UTILITY BOXES (I.E. PEDESTALS, TRANSFORMERS, ETS) ARE TO BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF THE CITY OF OTTAWA'S "GUIDELINES FOR UTILITY PEDESTALS WITHIN THE ROAD RIGHT OF WAY".
16. MUD MAT TO BE PROVIDED AT CONSTRUCTION SITE ENTRANCES/EGRESSES.
17. 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.
18. WHERE SERVICES PASS THROUGH A FOUNDATION WALL, A SLEEVE, WITH A MINIMUM INSIDE DIAMETER OF 75MM LARGER THAN THE SERVICES OUTSIDE DIAMETER SHALL BE USED.
19. ALL SEWERS AND SERVICES FOR THIS SITE ARE SHALLOW AND REQUIRE A MINIMUM OF 50mm H-INSULATION. ALL WATERMANS TO BE INSULATED PER CITY STANDARDS AT ADJACENT STRUCTURES OR WHEN DEPTH OF COVER IS LESS THAN 2.4m.

	FIRE HYDRANT
	MAINTENANCE HOLE (STORM SEWER)
	MAINTENANCE HOLE (SANITARY)
	MAINTENANCE HOLE (UNIDENTIFIED)
	MAINTENANCE HOLE (TRAFFIC)
	HANDHOLE
	CATCH BASIN
	VALVE CHAMBER (WATERMAIN)
	UNDERGROUND STORM SEWER
	UNDERGROUND SANITARY SEWER
	UNDERGROUND WATER
	UNDERGROUND POWER HYDRO
	UNDERGROUND GAS
	OVERHEAD WIRES
	UNDERGROUND TRAFFIC
	CHAIN LINK FENCE
	BOARD FENCE
	GATE
	UTILITY POLE
	ANCHOR
	LIGHT STANDARD
	TRAFFIC SIGNAL POST
	BOLLARD
	SIGN
	GAS METER
	DIAMETER
	LOCATION OF ELEVATIONS
	TOP OF CONCRETE CURB ELEVATION
	CENTRELINE
	CONCRETE RETAINING WALL
	DECIDUOUS TREE
	CONIFEROUS TREE



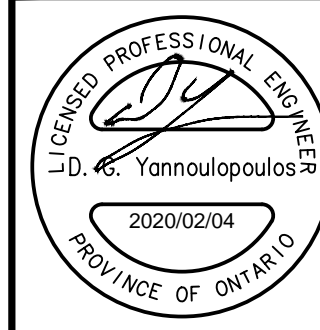
APPROVED
By Saide Sayah at 11:20 am, Jun 16, 2020

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5	REVISED PER CITY COMMENTS	DGY	2020:02/04
4	ISSUED FOR TENDER	DGY	2019:12:17
3	REVISED PER CITY COMMENTS	DGY	2019:11:19
2	REVISED PER CITY COMMENTS	DGY	2019:08:23
1	ISSUED FOR SPA	DGY	2019:05:08
No.	REVISIONS	By	Date

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Project Title

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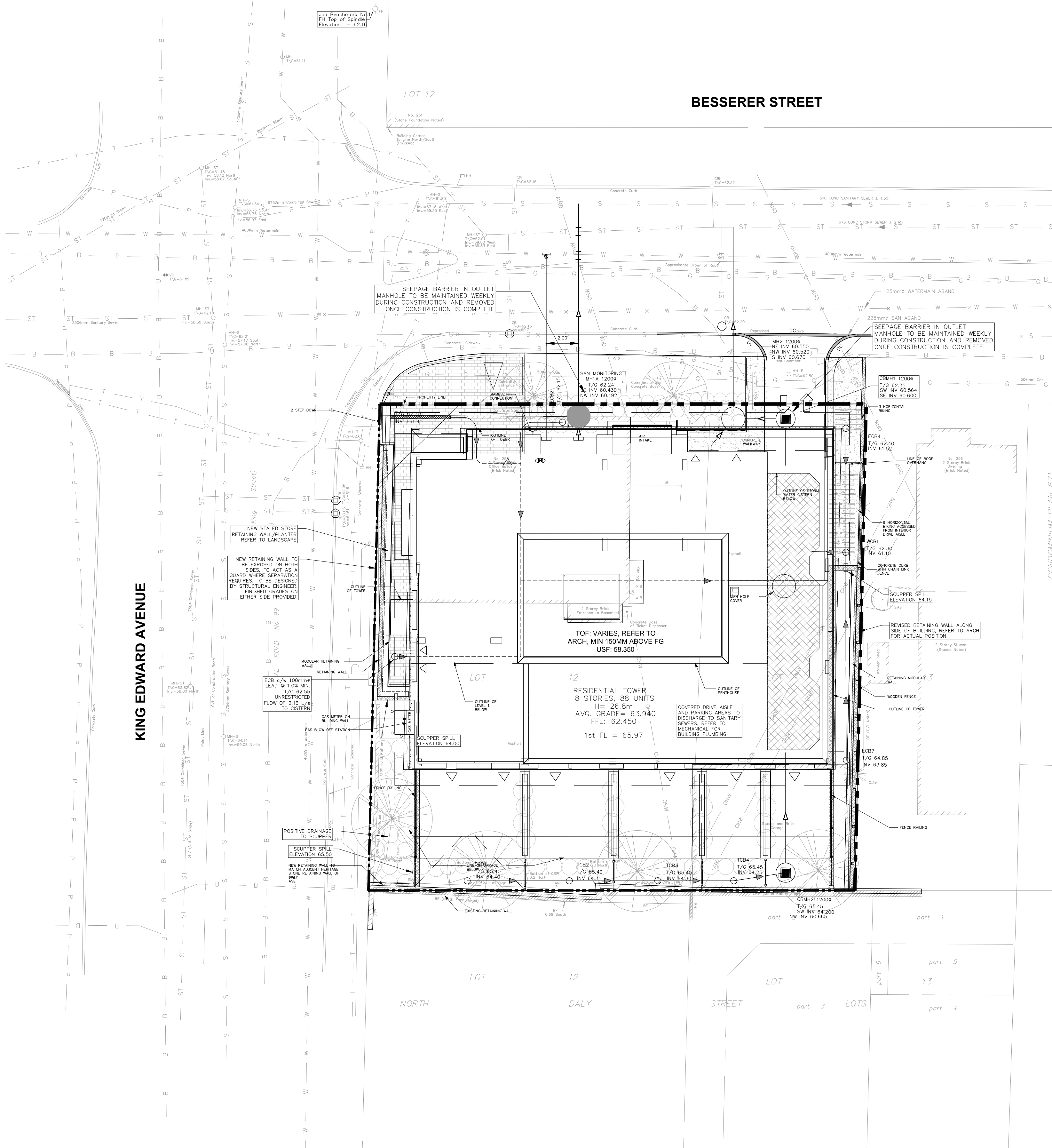


GENERAL NOTES AND LEGEND

Scale	N.T.S.
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Design R.M.	Date APRIL 1919
Drawn E.H.	Checked R.M. /D.G.Y.
Project No. 120228	Drawing No. 010

J:\20228_250Besserer\3.0 Drawings\3.0s\A\Topo\A\100 STD-EROS-PLAN.dwg Layout Name: 900 Plot Style: AIA STANDARD-HALF CTB Plot Scale: 1:7.62 Plotted At: 7/4/2020 12:40 PM Unit Saved By: CHRIS CORNER Unit Saved At: Feb. 4, 20



- NOTES:
1. SILT FENCE TO BE ERRECTED PRIOR TO EARTH WORKS BEING COMMENCED. SILT FENCE TO BE MAINTAINED UNTIL VEGETATION IS ESTABLISHED OR UNTIL START OF SUBSEQUENT PHASE.
 2. STRAW BALE SEDIMENT TRAPS TO BE CONSTRUCTED IN EXISTING ROAD SIDE DITCHES. TRAPS TO REMAN AND BE MAINTAINED UNTIL VEGETATION IS ESTABLISHED.
 3. SILT SACK TO BE PLACED AND MAINTAINED UNDER COVER OF ALL CATCHBASINS. GEOTEXTILE SILT SACK IN STREET C&B TO REMAIN UNTIL ALL CURBS ARE CONSTRUCTED. GEOTEXTILE FABRIC IN RYCB TO REMAIN UNTIL VEGETATION IS ESTABLISHED. ALL CATCHBASINS TO BE REGULARLY INSPECTED AND CLEANED, AS NECESSARY, UNTIL S&D AND CURBS ARE CONSTRUCTED.
 4. CONTRACTOR TO PROVIDE DETAILS ON LOCATION(S) AND DESIGN OF DENATURING TRAP(S) PRIOR TO COMMENCING WORK. CONTRACTOR ALSO RESPONSIBLE FOR MAINTAINING TRAP(S) AND ADJUSTING SIZE(S) IF DEEMED REQUIRED BY THE ENGINEER DURING CONSTRUCTION.
 5. CONTRACTOR TO PROTECT EXISTING CATCHBASINS WITH FILTER CLOTH UNDER THE COVERS TO TRAP SEDIMENTATION. REFER TO IDENTIFIED STRUCTURES.
 6. ALL DISTURBED AREA TO BE REVEGETATED AS SOON AS POSSIBLE.
 7. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSPECTED WEEKLY OR IMMEDIATELY FOLLOWING A STORM EVENT. ANY DAMAGED CONTROL MEASURE SHALL BE REPAIRED IMMEDIATELY. CONTRACTOR TO BE RESPONSIBLE FOR PROTECTING EROSION AND SEDIMENT CONTROL MEASURES DURING CONSTRUCTION.
 8. ALL SEDIMENT DEPOSITS SHALL BE REMOVED FROM SITE AND DISPOSED OF AT APPROPRIATE DISPOSAL FACILITY, OR SHALL BE TESTED BY GEOTECHNICAL ENGINEER WHO MAY PROVIDE RECOMMENDATIONS FOR MATERIALS TO BE USED ONSITE PRIOR TO LANDSCAPING.
 9. MUD MAT TO BE PROVIDED AT CONSTRUCTION SITE ENTRANCES/EGRESSES.
 10. 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.
 11. CONTRACTOR TO ENSURE ROADS ARE CLEAN AND FREE OF DUST, MUD OR DEBRIS

SEDIMENT EROSION LEGEND

--- CONSTRUCTION HOARDING FENCING TO INCLUDE SILTATION BARRIER, IE FILTER FABRIC WRAPPED SAND BAG

--- CONSTRUCTION HOARDING FENCING

① SILT SACK IN EXISTING CATCH BASIN TO BE MAINTAINED WEEKLY AND AFTER AND SIGNIFICANT RAINFALL

SAIDE SAYAH
MANAGER, CENTRAL BRANCH
PLANNING, INFRASTRUCTURE & ECONOMIC
DEVELOPMENT DEPARTMENT, CITY OF OTTAWA

APPROVED
By Saide Sayah at 11:20 am, Jun 16, 2020

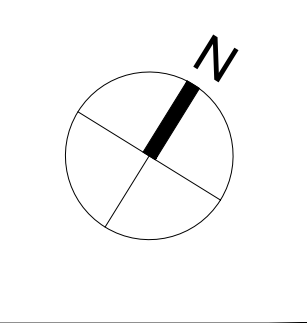
REFER TO DRAWING 010 FOR NOTES, LEGEND, SECTIONS AND DETAILS

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1	ISSUED FOR SPA	DGY 2019:05:08
No.	REVISIONS	By Date

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Project Title
250 BESSERER



Drawing Title
EROSION AND SEDIMENTATION PLAN

Scale
1 : 150

Design	R.M.	Date	APRIL 2019
Drawn	E.H.	Checked	R.M. / D.G.Y.
Project No.	120228	Drawing No.	900

CITY PLAN No.17962
CITY FILE No. D07-12-19-0078