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4. SITE SERVICES
- 4.1. EXISTING WATER SERVICE CONNECTIONS TO BE DECOMMISSIONED SHALL BE BLANKED AT CITY WATERMAIN BY CITY FORCES. CONTRACTOR SHALL PROVIDE EXCAVATION, BEDDING AND BACKFILL TO CITY WATERMAIN. CONTRACTOR SHALL PROVIDE A WATERMAIN CAP AS PER CITY OF OTTAWA STANDARDS 3114-. INSTALL A WATERTIGHT CAP AT END OF EXISTING STORM SEWERS TO BE ABANDONED.
- 4.2. CONNECTION TO WATERMAIN BY CITY OF OTTAWA FORCES. CONTRACTOR SHALL PROVIDE EXCAVATION, BACKFILL AND REINSTATEMENT.

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5. CONSTRUCTION:
- 5.1. PRIOR TO COMMENCING WORK:
- a. OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND APPROVALS FROM THE AUTHORITIES. INDICATE ON THE DRAWINGS THE LOCATION OF ALL EXISTING SERVICES, UTILITIES AND STRUCTURES ARE NOT NECESSARILY SHOWN ON THE DRAWINGS. COMPLETENESS AND ACCURACY OF THE INFORMATION PROVIDED BY THE CLIENT SHALL BE THE RESPONSIBILITY OF THE CLIENT. HAVING JURISDICTION OF PROPOSED WORK AND LOCATE AND CLERK IDENTITY ALL EXISTING SERVICES, UTILITIES AND STRUCTURES ON AND ADJACENT TO THE SITE. UNDERGROUND LOCATES SHALL BE CONDUCTED BY A QUALIFIED PERSON. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMMENCING ALL EXCAVATIONS, CONFIRM LOCATIONS OF BURIED SERVICES AND UTILITIES BY CAREFUL TEST EXCAVATIONS AND REPORT ANY DIFFERENCES TO THE ENGINEER.

- C. LISTING GRADE ELEVATIONS INDICATED ON THE DRAWINGS ARE FOR GUIDANCE ONLY. EXISTING GRADES SHALL BE FIELD VERIFIED BY THE ENGINEER. CONFIRM EXISTING GRADE ELEVATIONS AND REPORT ANY DIFFERENCES TO THE OWNER.
- D. COORDINATE AND SCHEDULE WORK WITH THE AUTHORITIES AND OTHER TRADES.
- E. MAINTAIN AND PROTECT FROM DAMAGE, SERVICES, UTILITIES AND STRUCTURES ENCOUNTERED.
- F. PROTECT EXISTING BUILDINGS, TREES AND OTHER PLANTS, LANDS BEING SERVICED, ENCOUNTERED, AND ADJACENT PROPERTIES FROM DAMAGE. PROTECT EXISTING UTILITIES AND STRUCTURES FROM DAMAGE WHILE WORK IS IN PROGRESS.
- G. EXISTING GRADES SHALL BE FIELD VERIFIED BY THE ENGINEER. CONFIRM EXISTING GRADE ELEVATIONS AND REPORT ANY DIFFERENCES TO THE OWNER. DO NOT DISTURB SOIL WITH BROAD SPREAD OF GRADES.
- H. PROVIDE TRAFFIC CONTROL, AND SAFETY MEASURES INCLUDING ANY NECESSARY PERSONNEL AND EQUIPMENT TO MAINTAIN SAFE WORKING CONDITIONS. IF APPLICABLE, PROVIDE TRAFFIC MANAGEMENT AS REQUIRED BY THE AUTHORITIES, THE WORK, FROM SURFACES TO BE EXCAVATED.
- I. REMOVE OBSTRUCTIONS, ICE AND SNOW, FROM SURFACES TO BE EXCAVATED.
- J. CUT AND FILL SHALL BE NEARLY EQUAL AMOUNTS OF PROPOSED EXCAVATION IN VOLUMES. EXCESS CUT SHALL BE REUSED OR RELOCATED TO ANOTHER PROJECT AREA.
- K. COORDINATE AND PAY FOR ALL GEOTECHNICAL INSPECTIONS AND COMPRESSION TESTING OF EXISTING AND PROPOSED FOUNDATIONS. PROVIDE ALL NECESSARY RECORDS TO THE OWNER AND ARCHITECT AS PART OF THE SUBMITTAL TO THE GEOTECHNICAL CONSULTANT AND ENGINEER.
- L. EXCAVATION SHALL BE TO THE REQUIRED ELEVATION. EXCAVATION SHALL BE TO THE REQUIRED ELEVATION AND SHALL BE AS NEARLY AS POSSIBLE TO THE REQUIRED SUB-GROUND ELEVATION. DISPOSE EXCESS CUT AND FILL TO ANOTHER PROJECT AREA.
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- | 1. | PAVEMENT | PAVEMENT STRUCTURE |
|-----|---------------------|---|
| 1.1 | LIGHT DUTY PAVEMENT | 100mm OPSS GRANULAR BASE
100mm OPSS GRANULAR B BASE
300mm OPSS GRANULAR B TYPE II SUB-BASE
RE-CYCLED GRANULAR MATERIALS ARE NOT PERMITTED. |
| | HEAVY DUTY PAVEMENT | 400mm H-3 OR SUB-BASE
400mm H-3 OR SUB-BASE
150mm OPSS GRANULAR B BASE
450mm OPSS GRANULAR B TYPE II SUB-BASE |

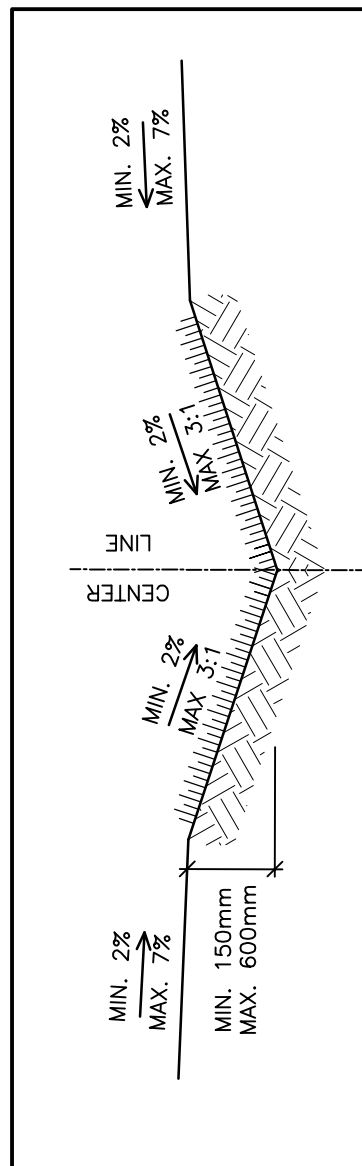
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- STATION INFORMATION: 1. PROJECT: PARADISE IMPROVING ONITE DIST.

- | | |
|---|----------------------------------|
| APPROVED ☒ | REFUSED ☐ |
| THIS _02_ DAY OF December, 2020 | |
| <div style="text-align: right;"> 

 ERIN O'CONNELL, MCIP, RPP, MANAGER (A)
 DEVELOPMENT REVIEW, WEST
 PLANNING, INFRASTRUCTURE AND ECONOMIC
 DEVELOPMENT DEPARTMENT, CITY OF OTTAWA </div> | |

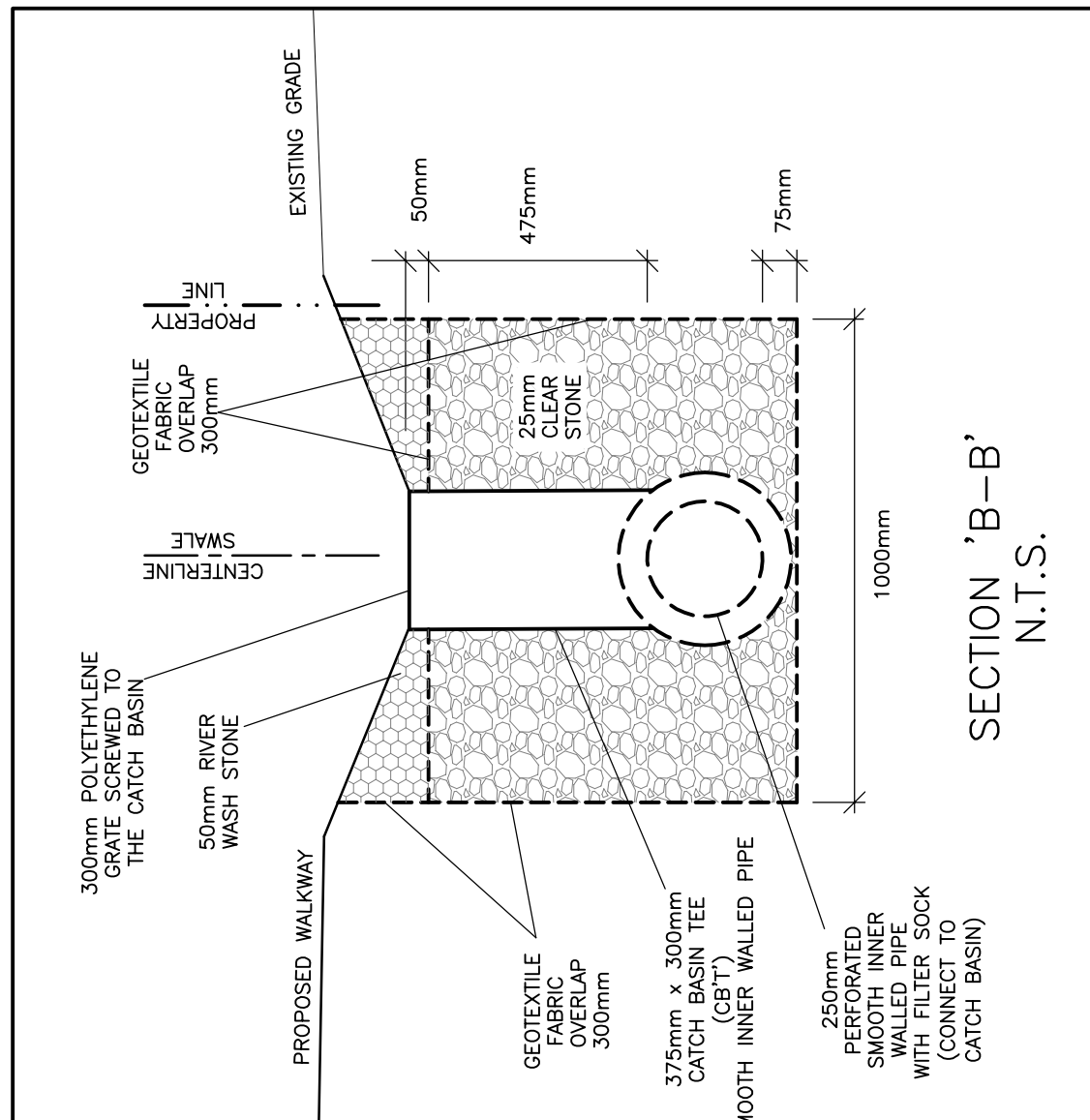


SECTION SWALE
AS PER CITY OF
OTTAWA DRAWING S29
N.T.S.

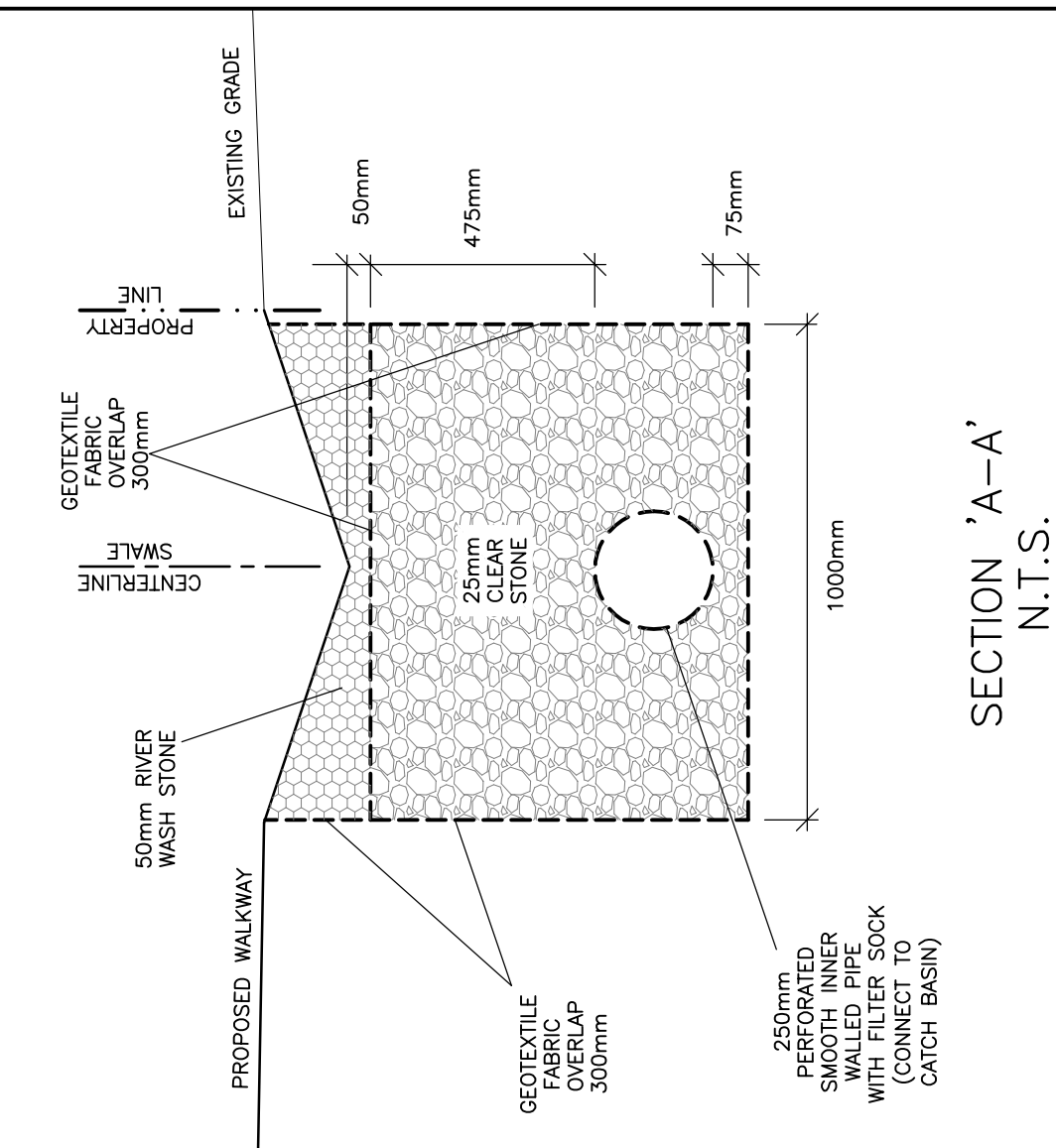
WATER SERVICE PROFILE TABLE					
MATERIAL: 150mm PVC PRESSURE CLASS 150 DR18					
STATION	DESCRIPTION	GRADE DATA	TOP OF PIPE	DEPTH OF TRENCH	COMMENTS
0+00.0	300mm x 300mm TIE CONNECTION IN ROOM TO CITY OF ATLANTA STANDARDS	33.64	33.69	± 1.00m	-
0+01.0	45° VERTICAL BEND DOWN TO CITY OF ATLANTA STANDARDS	33.61	33.69	± 1.00m	-
0+01.5	45° VERTICAL BEND UP TO CITY OF ATLANTA STANDARDS	33.59	31.17	± 2.42m	-
0+02.0	-	33.57	31.17	2.40m	GRADE ELEVATION AT BOTTOM OF DEPRESSION CURB
0+03.0	150mm VALVE & WAVE BOX TO CITY OF ATLANTA STANDARDS	33.31	31.17	2.64m	ON NEIGHBORLY PROP. (LINE ROW INCREASE)
0+11.1	-	34.32	31.27	3.50m	ENTRY INTO BUILDING

CATCH BASIN & MANHOLE SCHEDULE

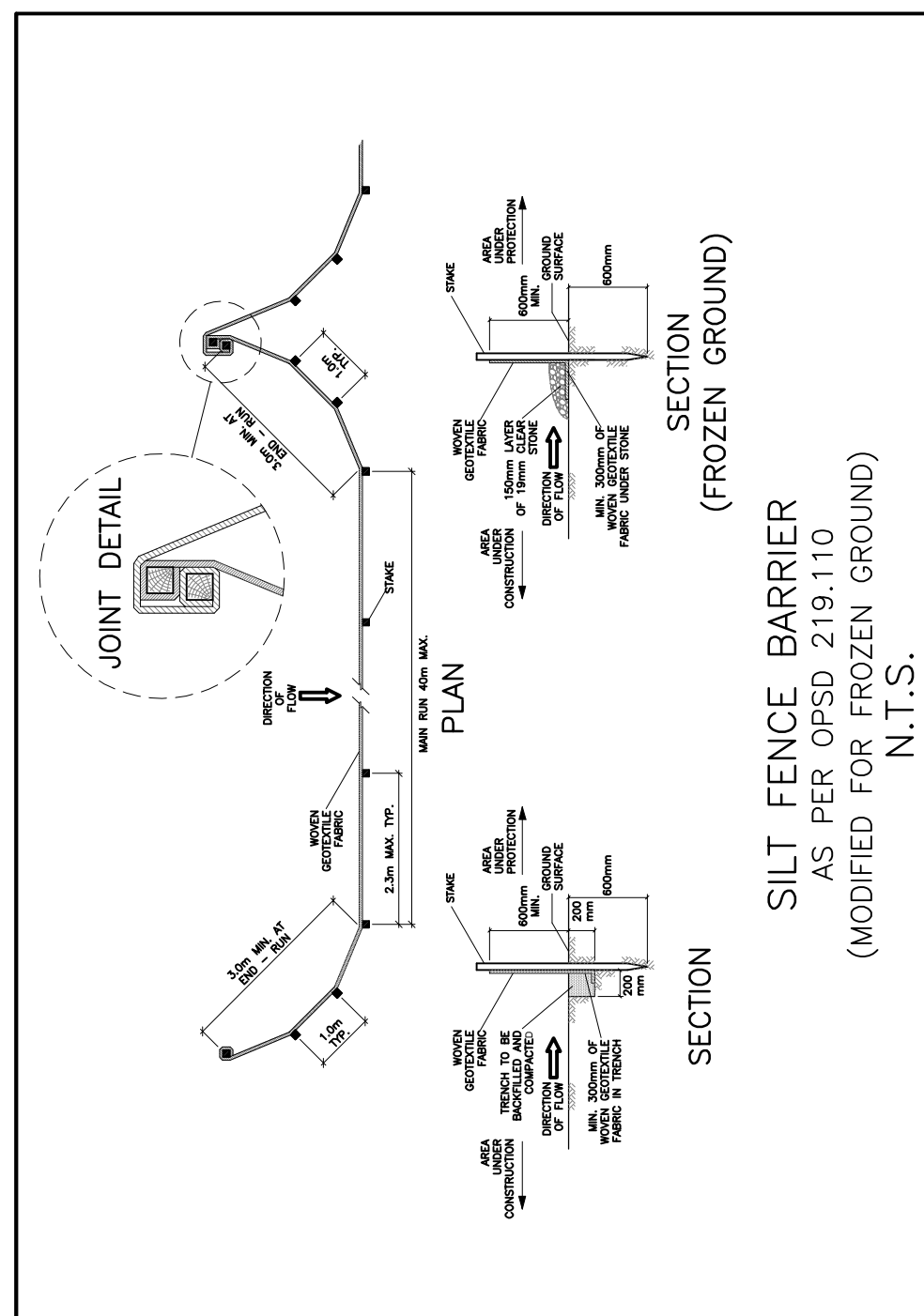
REF	TOP	SIZE	TYPE	STORM SEWER	INLET AT INLET	INLET AT OUTLET	NOTES
CB-1	93.39	600 x 600mm	PRE-CAST CATCH-BASIN	TO GRID 70.015 & CITY OF OTTAWA STORM SEWER TRUNK LAYERS	-	91.14	
CB/MH-2	93.31	1200mm	PRE-CAST CATCH-BASIN/ MANHOLE	TO GRID 70.015 & CITY OF OTTAWA STORM SEWER TRUNK LAYERS	91.03(E)	91.003(W)	
CB-3	93.49	600 x 600mm	PRE-CAST CATCH-BASIN	TO GRID 70.015 & CITY OF OTTAWA STORM SEWER TRUNK LAYERS	-	91.19	
CB/MH-4	93.66	1200mm	PRE-CAST CATCH-BASIN/ MANHOLE	TO GRID 70.015 & CITY OF OTTAWA STORM SEWER TRUNK LAYERS	91.13(E)	91.12(W)	
CB/MH-5	93.75	1200mm	PRE-CAST CATCH-BASIN/ MANHOLE	TO GRID 70.015 & CITY OF OTTAWA STORM SEWER TRUNK LAYERS	91.01(E)	90.98(W)	
CB/MH-6	93.17	1200mm	PRE-CAST CATCH-BASIN/ MANHOLE	TO GRID 70.015 & CITY OF OTTAWA STORM SEWER TRUNK LAYERS	90.98(E)	90.96(W)	
MH-7	92.38	SOLENO ASPHALT MANHOLE 60"-3'	OLE & GRI SAND MANHOLE	TO GRID 70.015 & CITY OF OTTAWA STORM SEWER TRUNK LAYERS	-	90.78(W)	
CB-8	92.60	600 x 600mm	PRE-CAST CATCH-BASIN	TO GRID 70.015 & CITY OF OTTAWA STORM SEWER TRUNK LAYERS	-	90.35	
MH-9	92.77	SOLENO ASPHALT MANHOLE 60"-3'	OLE & GRI SAND MANHOLE	TO GRID 70.015 & CITY OF OTTAWA STORM SEWER TRUNK LAYERS	-	90.30(E)	



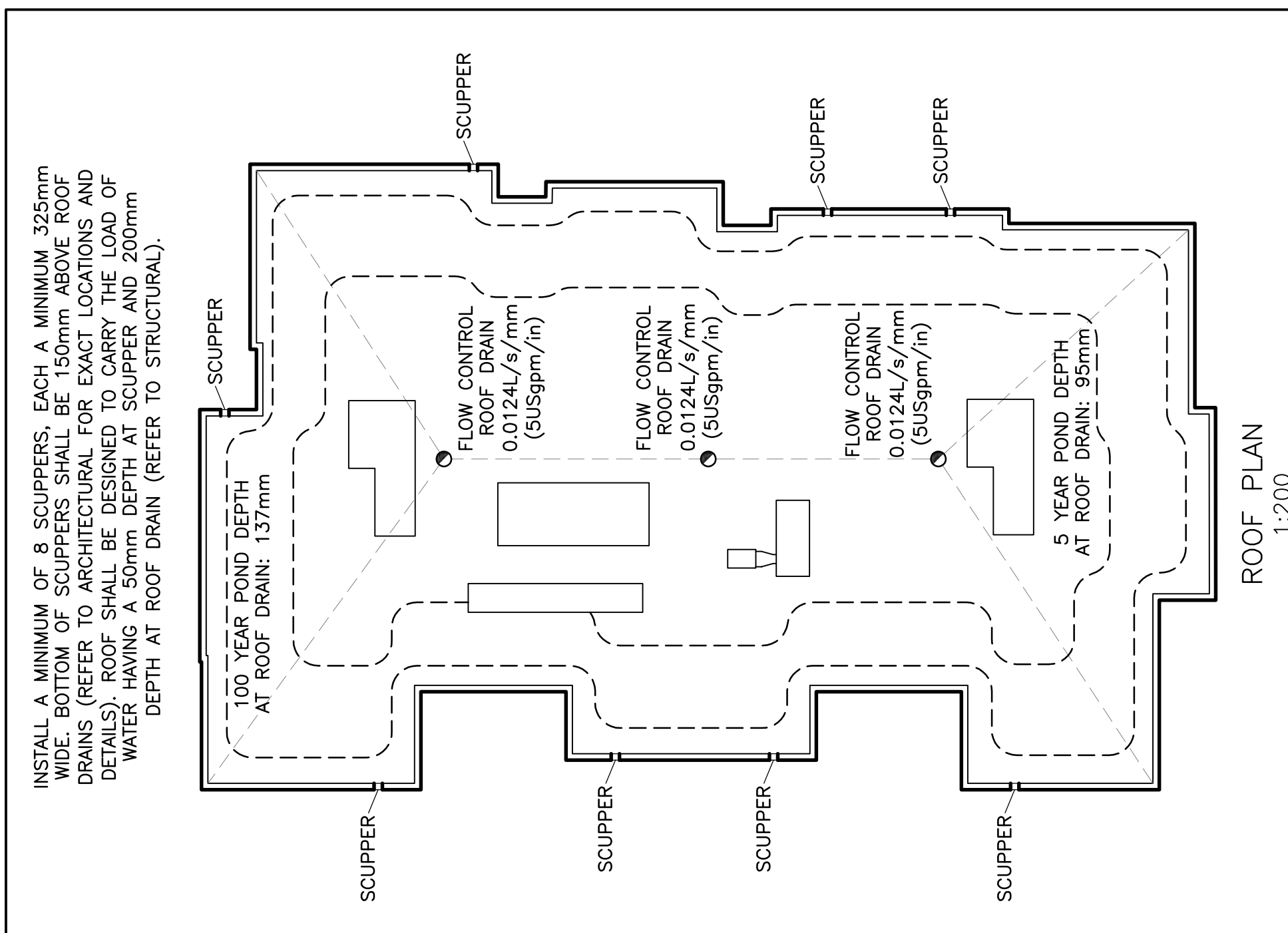
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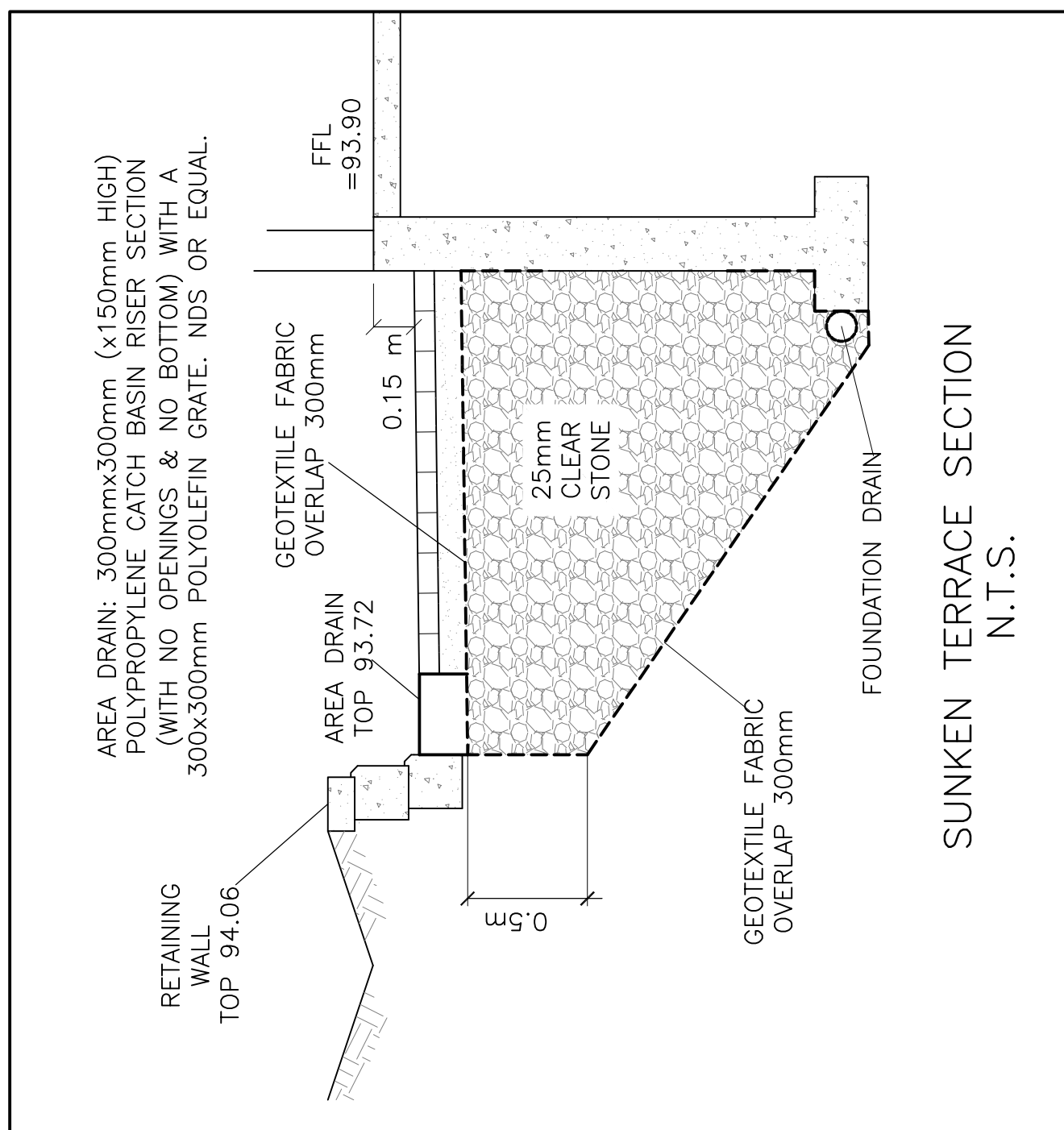
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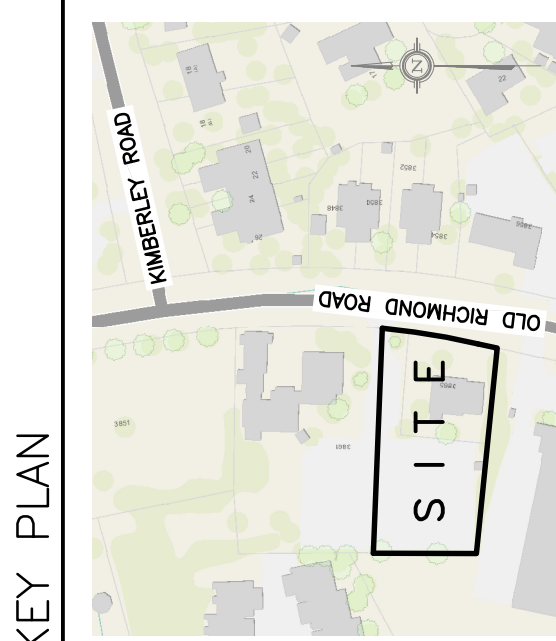
SILT FENCE BARRIER
AS PER OPD 219.110
(MODIFIED FOR FROZEN GROUND)
N.T.S.



OF PLAN
1:200



SUNKEN TERRACE SECTION
N.T.S.



KEY PLAN

				OCT 8-20	RE-ISSUED FOR APPROVAL
		4		JUL 28-20	RE-ISSUED FOR APPROVAL
		3		APR 28-20	ISSUED FOR APPROVAL
		2		APR 22-20	ISSUED FOR COORDINATION
		1		No.	REVISION
				DATE	

D. B. GRAY ENGINEERING INC.
Stormwater Management - Grading & Drainage - Storm & Sanitary Sewers - Watermaster

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Ottawa, Ontario
613-425-8044
d.gray@dbgrayengineering.com

PROPOSED 3 STOREY
MIXED USE BUILDING
3865 OLD RICHMOND ROAD
OTTAWA, ONTARIO

Drawing Title

NOTES, DETAILS
& SCHEDULES

Engineer's Seal



NOT VALID UNLESS
SIGNED & DATED