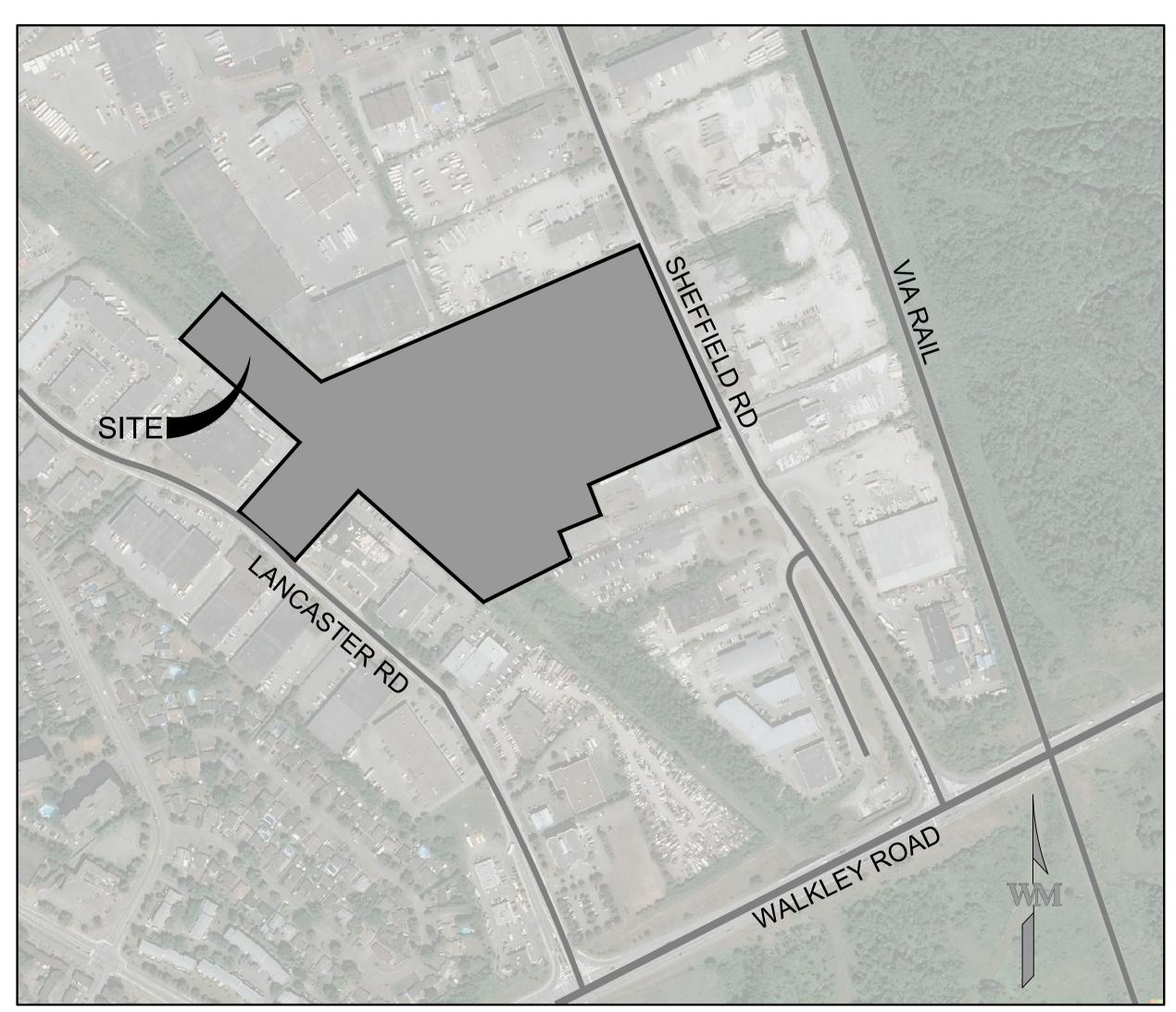
ISSUED FOR SITE PLAN APPROVAL 2023-10-20

CIVIL ENGINEER:

WARE MALCOMB 180 BASS PRO MILLS DRIVE, UNIT 103 VAUGHAN, ON, L4K 0G9

ARCHITECT:

WARE MALCOMB 180 BASS PRO MILLS DRIVE, UNIT 103 VAUGHAN, ON, L4K 0G9



KEY PLAN
SCALE N.T.S.

SURVEYOR

PREPARED BY: ONTARIO LAND SURVEYOR DATE: NOVEMBER 18, 2022

BENCHMARK

ELEVATIONS SHOWN ARE GEODETIC AND ARE REFEREED TO THE CGVD28 GEODETIC DATUM.

BASIS OF BEARINGS

BEARINGS ARE GRID, DERIVED FROM CAN-NET 2016 REAL TIME NETWORK GPS OBSERVATIONS AND ARE REFERENCED TO SPECIFIED CONTROL POINTS 01919680105 AND 019198434761, MTM ZONE 9 (76*30' WEST LONGITUDE) NAD-83.

SHEET INDEX

C1.1

C1.0 COVER SHEET

NOTES

C2.0 PRE-DEVELOPMENT DRAINAGE PLAN
C3.0 POST DEVELOPMENT DRAINAGE PLAN

C4.0 GRADING PLAN
C5.0 SERVICING PLAN

C6.0 ESC & CONSTRUCTION MANAGEMENT PLAN

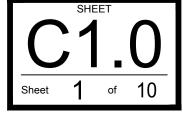
C7.0 DETAILS

2760-2770 SHEFFIELD |
OTTAWA, ONTARIO

WARE MALCOMB

REMARKS	ISSUED FOR SITE PLAN APPROVAL				
DATE	2023-10-20				
ON.	1				

JOB NO.: OTW21-0002
PA / PM: NI
DRAWN BY: SJ
DATE: 2023-10-20





ARE MALCOMB
ING DESIGN FOR COMMERCIAL REAL ESTATE

180 bass pro mills drive unit 103 vaughan ontario I4k 5w4 p 905.760.1221 waremalcomb.com



2760-2770 SHEFFIELD ROAD OTTAWA, ONTARIO

NO. DATE REMARKS
1 2023-10-20 ISSUED FOR SITE PLAN APPROVAL

DRAWN BY: SJ
DATE: 2023-10-20

SHEET

EX.STM-CB -600x600mm CATCHBASIN T/G: 66.30 INV OUT: 65.92(E)

EX. FIRE HYDRANT — TO BE RELOCATED

1500mmØ MH T/G: 68.33 INV IN: 63.57(W) INV OUT: 63.57(E)

2400mmØ MH T/G: 68.30 INV IN: 64.35(W) INV OUT: 64.35(E)

X-6 0.61 1.32 HA

BH 9-23 66.74 GWL: 66.26

X-7 0.61 0.47 HA

5

X-5 0.6

No. 2713 LANCASTER ROAD 2 STOREY BRICK AND METAL SIDED BUILDING

STM ~ 150mmØ LEAD EX. FIRE HYDRANT

SSTM ~ 150mmØ @0.25% SSTM & S

LANCASTER ROAD

CONC. STM 79.4m~1375mmØ @0.20%

X-2 0.74 0.09 HA

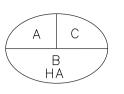
EX.STM-MH — 2400mmØ MH T/G: 67.79 INV IN: 64.51(W) INV OUT: 64.51(E)

EX. 300mmØ WATERMAIN

EX.SAN-MH — 1500mmØ MH T/G: 67.78 INV IN: 63.77(W) INV OUT: 63.77(E)

BH 8-23 66.80 GWL: 65.60

DRAINAGE AREA BOUNDARY



A=DRAINAGE AREA ID B=DRAINAGE AREA (HA) C=RUNOFF COEFFICIENT



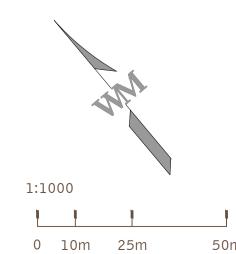
OVERLAND FLOW ROUTE

WARE MALCOMB
LEADING DESIGN FOR COMMERCIAL REAL ESTATE

FOR AND ON BEHALF OF WARE MALCOMB

PLAN FIELD ROAD ONTARIO - DRAINAGE I SHEF DE

2023-10-20



WARE MALCOMB assumes no responsibility for utility locations. The utilities shown on this drawing have been plotted from the best available information. It is, however, the contractors responsibility to field verify the location of all utilities prior to the commencement of any construction.

DRAINAGE AREA BOUNDARY

A=DRAINAGE AREA ID B=DRAINAGE AREA (HA)

OVERLAND FLOW ROUTE

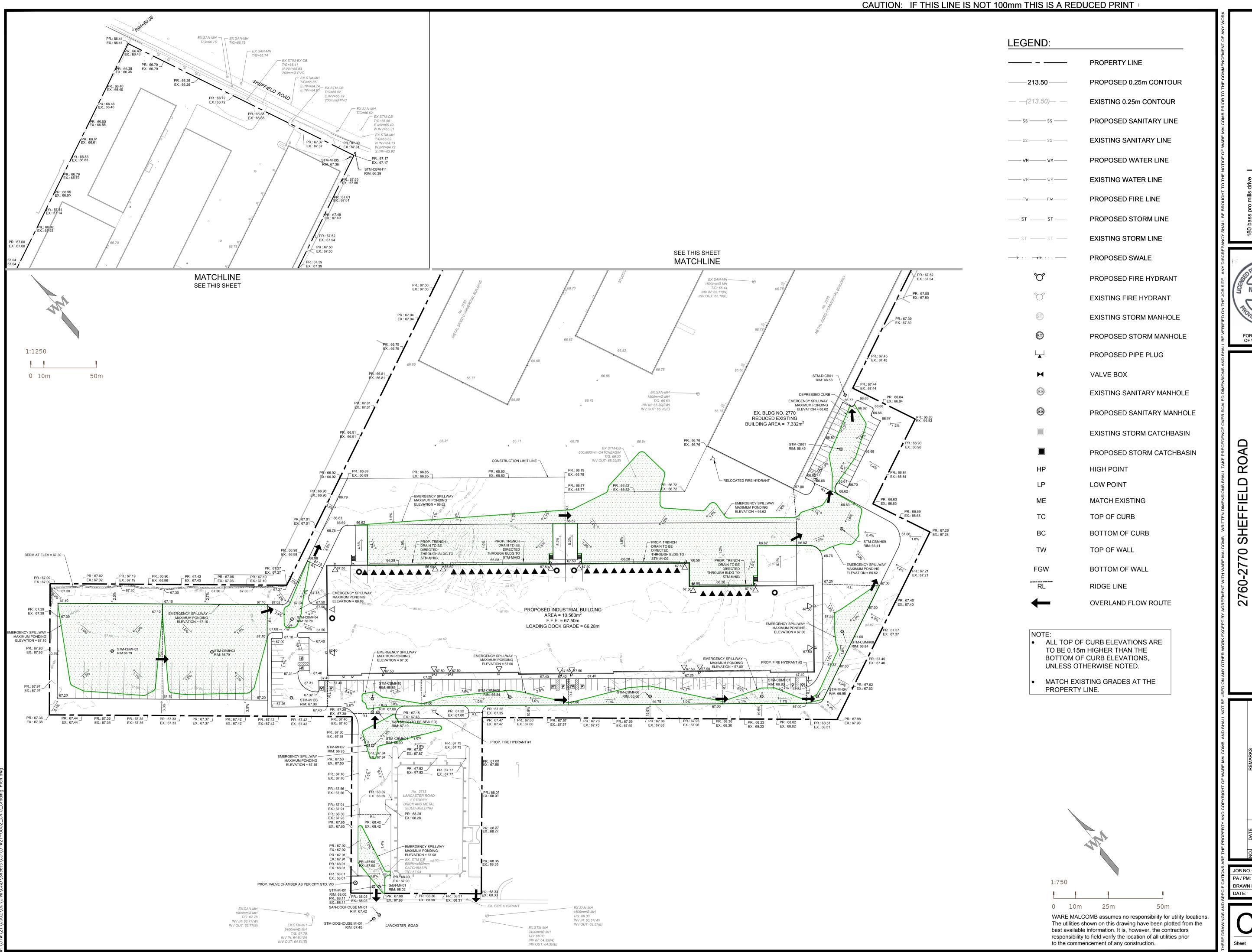
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LEADING DESIGN FOR COMMERCIAL REAL ESTATE

OF WARE MALCOMB

FIELD ROAD ONTARIO T DRAINAGE F OTTAWA, OI SHEF 2760-2770 DE OST

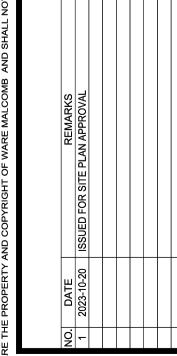
ATE REMARKS	2023-10-20 ISSUED FOR SITE PLAN APPROVAL				
DATE	2023-10-20				
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	DRAWN BY:	SJ
	DATE:	2023-10-20

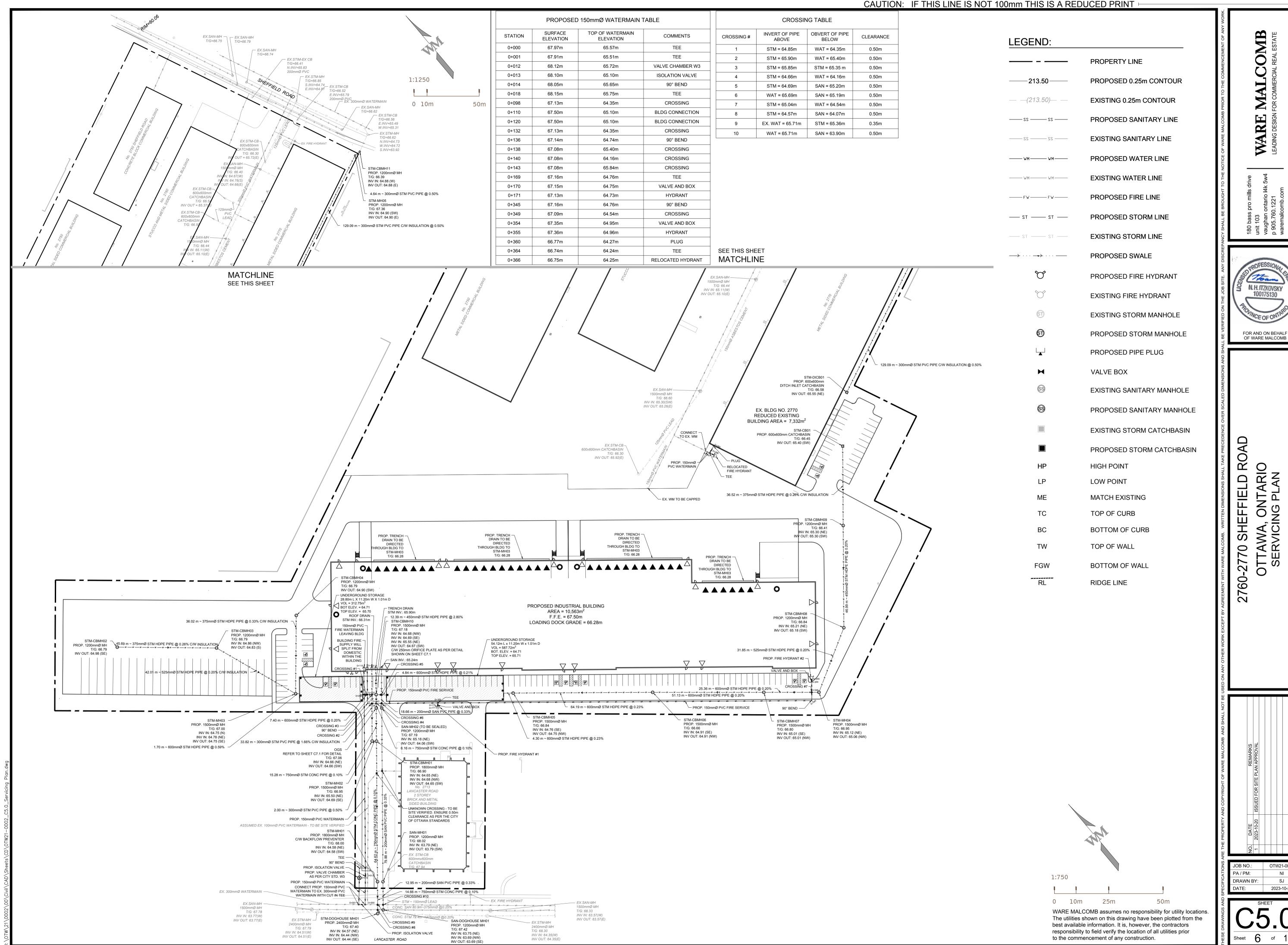


WARE MALCOMB
LEADING DESIGN FOR COMMERCIAL REAL ESTATE

N. H. ITZKOVSKY OF WARE MALCOMB



JOB NO.:	OTW21-0002
PA / PM:	NI
DRAWN BY:	SJ
DATE:	2023-10-20



MALCOMB WARE

N. H. ITZKOVSKY 100175130

2023-10-20

NOTES FOR SEDIMENT & EROSION CONTROL

DISTURBED AREAS THAT HAVE FAILED TO HAVE STABLE GROUND COVER ESTABLISHED BY OCTOBER JOTH SHALL BE PROTECTED WITH A SILTATION CONTROL FENCE OR STRAW MULCH ETC. AND MAINTAINED BY THE CONTRACTOR UNTIL VEGETATION BECOMES ESTABLISHED IN THE SUBSEQUENT GROWING SEASON.

SEQUENCE OF CONSTRUCTION

CONSTRUCTION PERICO.

1. ENGINEER TO BE NOTIFIED PRIOR TO INITIATION OF ANY ON SITE WORKS.

2. SILT FENCE AND CONSTRUCTION ACCESS MATS TO BE INSTALLED PRIOR TO THE COMMENCEMENT OF

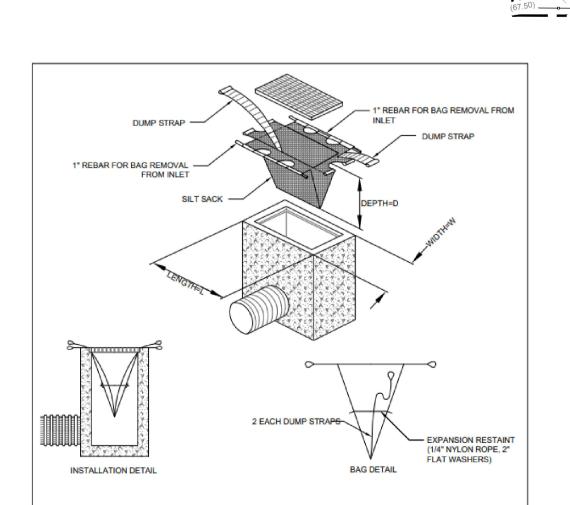
3. VEGETATION REMOVAL MAY COMMENCE AFTER ALL SILT FENCE IS INSTALLED AND APPROVED BY THE

EROSION CONTROL MEASURES TO BE MAINTAINED AS DIRECTED BY THE ENGINEER DURING THE

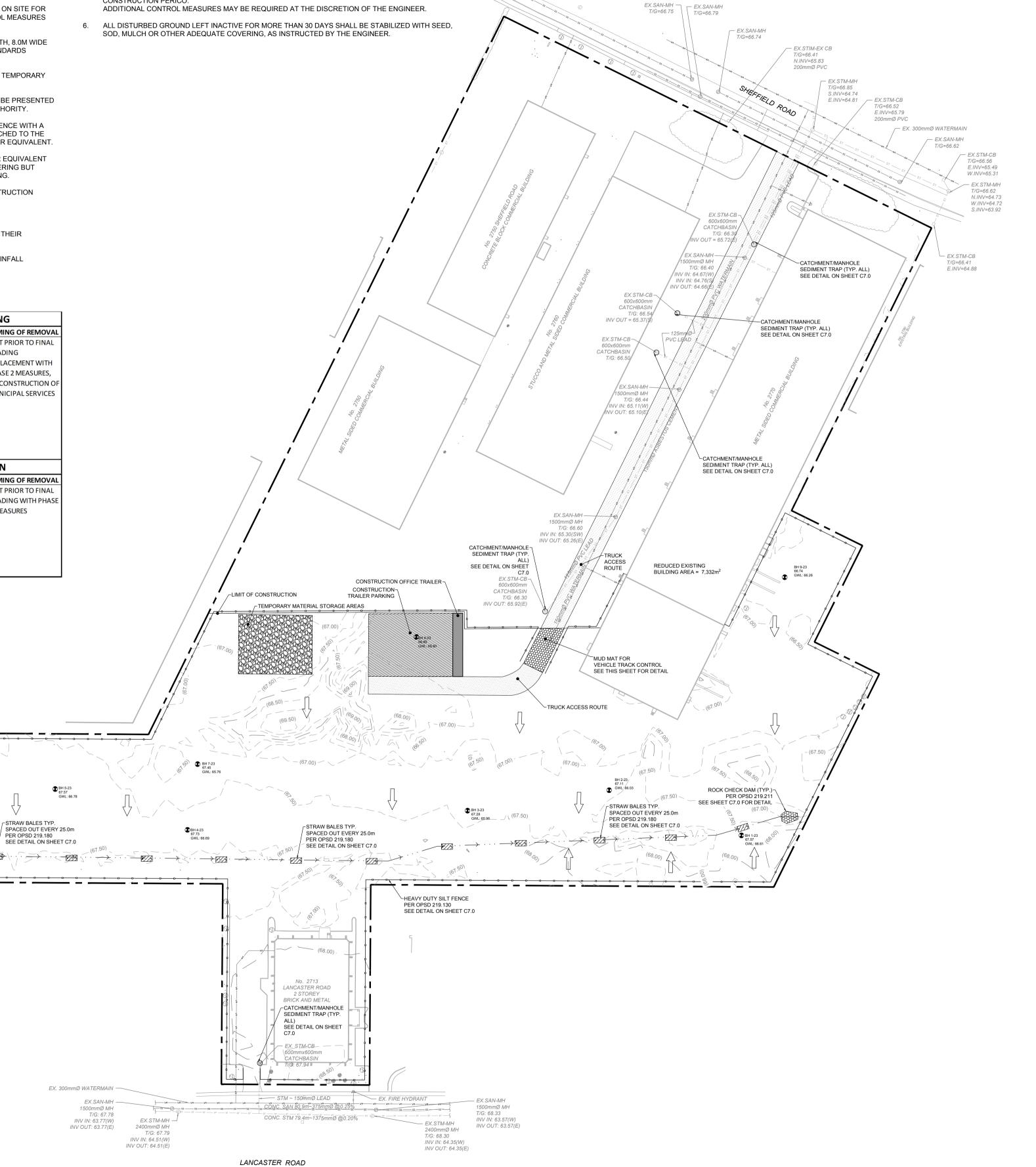
4. COMMENCE WITH EARTH EXCAVATION AND SITE SERVICING (TO BE REMOVED FROM SITE - NO

- ANY DEWATERING WASTE SHALL BE DISCHARGED TO A VEGETATED AREA AT LEAST 30 M FROM ANY WATERCOURSE AND FILTERED. FILTERING METHODS MUST BE APPROVED BY THE SITE ADMINISTRATOR.
- SILT FENCE SHALL BE PUT IN PLACE PRIOR TO AND MAINTAINED DURING ALL GRADING. SILT FENCE SHALL COMPLY WTH OPSD 219.110 FOR LIGHT DUTY AND / OR OPSD219130 FOR HEAVY DUTY, UNLESS NOTED OTHERWISE. SILT FENCE TO BE INSPECTED PRIOR TO COMMENCEMENT OF EARTH GRADING ACTIVITIES. SILT FENCE TO BE INSPECTED AND REPAIRED OR REPLACED IF DAMAGED AS DIRECTED BY THE SITE ADMINISTRATOR. SILT CONTROLS TO BE INSPECTED ON A REGULAR BASIS AND AFTER EVERY RAIN EVENT. INSTALLATION SHALL BE TO THE MANUFACTURER'S SUGGESTED SPECIFICATIONS.
- THE CONTRACTOR SHALL BE PREPARED FOR UNEXPECTED CONDITIONS AND ACCORDINGLY HAVE STOCKPILED MATERIALS ON SITE FOR NECESSARY REPAIRS AS A RESULT OF FAILED OR INADEQUATE CONTROL MEASURES.ALL SEDIMENT AND EROSION CONTROL MEASURES SHALL BE INSPECTED AT LEAST ONCE A WEEK, AND AFTER EVERY RAINFALL EVENT.
- MUD MATS WHERE CONSTRUCTION TRAFFIC ENTERS OR LEAVES THE SITE SHALL BE USED. MUD MATS TO BE 200MM IN DEPTH, 8.0M WIDE BY 10.0M LONG, WHERE THE 10.0M OF LENGTH NEED TO BE 50MM TO 100MM OF CRUSHED STONE; OR MEET MUNICIPAL STANDARDS
- CONTRACTOR SHALL OBTAIN A CURRENT COPY AND BECOME FAMILIAR WITH OPS 805, CONSTRUCTION SPECIFICATION FOR TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES AS WELL AS ALL APPLICABLE MUNICIPAL STANDARDS.
- THE CONTRACTOR MAY CONSIDER ALTERNATIVE SEDIMENT AND EROSION CONTROL MEASURES. SUCH MEASURES SHOULD BE PRESENTED IN WRITING FOR APPROVAL OF THE SITE ADMINISTRATOR AND MUST BE APPROVED IN WRITING BY THE CONSERVATION AUTHORITY.
- THE TOPS OF ALL FILTER FABRIC MUST BE A MINIMUM OF 1,0 METRES ABOVE THE GROUND LEVEL AND ATTACHED TO THE FENCE WITH A CONTINUOUS STEEL WIRE. ALTERNATIVELY, THE FILTER FABRIC MUST BE FOLDED OVER THE TOP OF THE FENCE AND ATTACHED TO THE FENCE WTH WIRE LOOPED THROUGH THE FABRIC ON BOTH SIDES OF THE FENCE. FILTER FABRIC IS TO BE TERRAFIX 270R OR EQUIVALENT.
- ALL DISTURBED GROUND LEFT INACTIVE SHALL BE STABILIZED BY SEEDING. SODDING. MULCHING, OR COVERING OR OTHER EQUIVALENT CONTROL MEASURES. THIS PERIOD OF INACTIVITY SHALL BE AT THE DISCRETION OF THE MUNICIPAL DIRECTOR OF ENGINEERING BUT SHALL NOT EXCEED (30) DAYS OR SUCH LONGER PERIOD DEEMED ADVISABLE BY THE MUNICIPAL DIRECTOR OF ENGINEERING.
- 10. CONTRACTOR SHALL INSTALL AND MAINTAIN CATCHBASIN SEDIMENT BARRIERS THROUGHOUT THE SITE DURING ALL CONSTRUCTION ACTIVITIES IN ORDER TO MITIGATE SEDIMENT ENTERING THE STORM STORM SEWERS.
- 11. NO FUEL TO BE STORED ON SITE. IN CASE OF A SPILL PLEASE CONTACT: MOECO SPILLS ACTION CENTER 1-800-268-6060.
- 12. SEDIMENT CONTROLS ARE TO REMAIN IN PLACE UNTIL WRITTEN DIRECTION IS RECEIVED FROM THE ENGINEER REGARDING THEIR
- 13. EROSION AND SEDIMENT CONTROLS WILL BE INSPECTED ON AS PER MUNICIPAL REQUIREMENTS OR AFTER SIGNIFICANT RAINFALL

SITE AREA	84,454 sq.m	STA	AGE 1 - TOPSOIL STRIP	PING AND AREA GRA	DING
AREA OF ALTERATION	42,064 sq.m	ESC MEASURE	TIMING OF INSTALLATION	INSPECTION/MAINTENANCE	TIMING OF REMOVA
EXISTING LAND USE	UNDEVELOPED	SILT FENCE	PRIOR TO TOPSOIL STRIPPING	CONTRACTOR TO ARRANGE INSPECTION WITH CITY	JUST PRIOR TO FINAL GRADING
27.107.11.10 27.11.10 002	0.1021220.25	MUD MAT		STAFF ONCE INSTALLATION	REPLACEMENT WITH
ADJOINING	INDUSTRIAL			IS COMPLETE. CONTRACTOR	PHASE 2 MEASURES,
ROPERTY LAND USE	INDUSTRIAL	TOPSOIL STOCKPILE		TO UNDERTAKE WEEKLY	OR CONSTRUCTION (
OOU TYPE		-		INSPECTIONS AND AFTER	MUNICIPAL SERVICES
SOIL TYPE	SILTY CLAY			EACH RAINFALL EVENT,	
				INCLUDING WEEKLY	
				REPORTING. REGULAR	
				MAINTENANCE TO REMOVE	
				ACCUMLATED SEDIMENT	
				AND REPAIR MEASURES.	
		ST	AGE 2 - MUNICIPAL SE	RVICING CONSTRUC	rion
		ESC MEASURE	TIMING OF INSTALLATION	INSPECTION/MAINTENANCE	
		RESTORATION	AFTER AREA GRADING AND	CONTRACTOR TO	JUST PRIOR TO FINAL
		HYDROSEEDING	INSTALLATION OF STORM	UNDERTAKE WEEKLY	GRADING WITH PHAS
			DRAINAGE SYSTEM IS	INSPECTIONS AND AFTER	3 MEASURES
		SEDIMENT TRAPS	COMPLETE.	EACH RAINFALL EVENT,	
				INCLUDING WEEKLY	
		CONNECTIONS TO		REPORTING. REGULAR	
		STORM SEWER		MAINTENANCE TO REMOVE	
				ACCUMULATED SEDIMENT	
				AND REPAIR MEASURES.	



INLET SEDIMENT CONTROL DEVICE





BOREHOLE

OF WARE MALCOMB

WARE

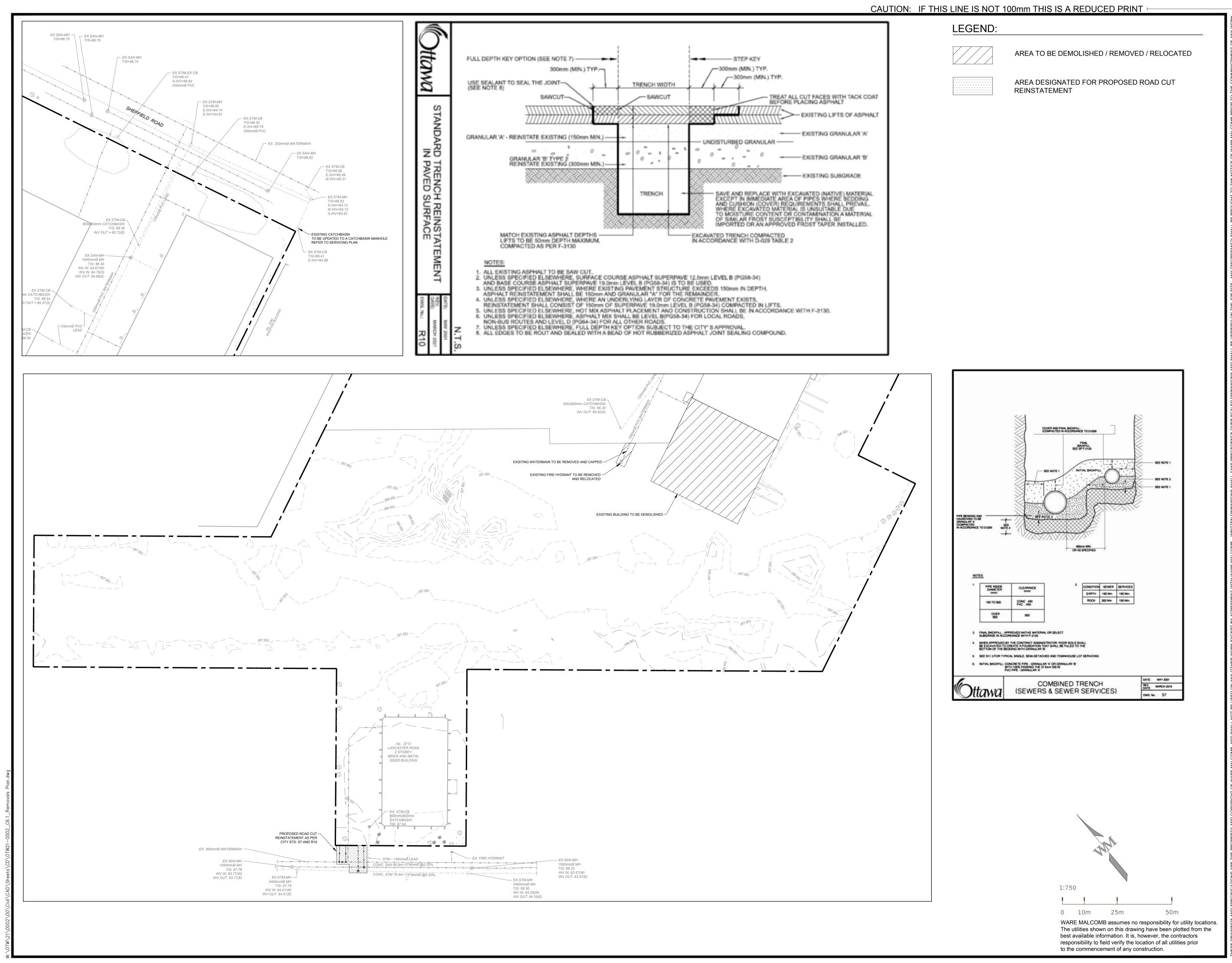
FIELD SHEF

70

PA / PM: DRAWN BY:

0 10m 25m WARE MALCOMB assumes no responsibility for utility locations. The utilities shown on this drawing have been plotted from the best available information. It is, however, the contractors responsibility to field verify the location of all utilities prior to the commencement of any construction.

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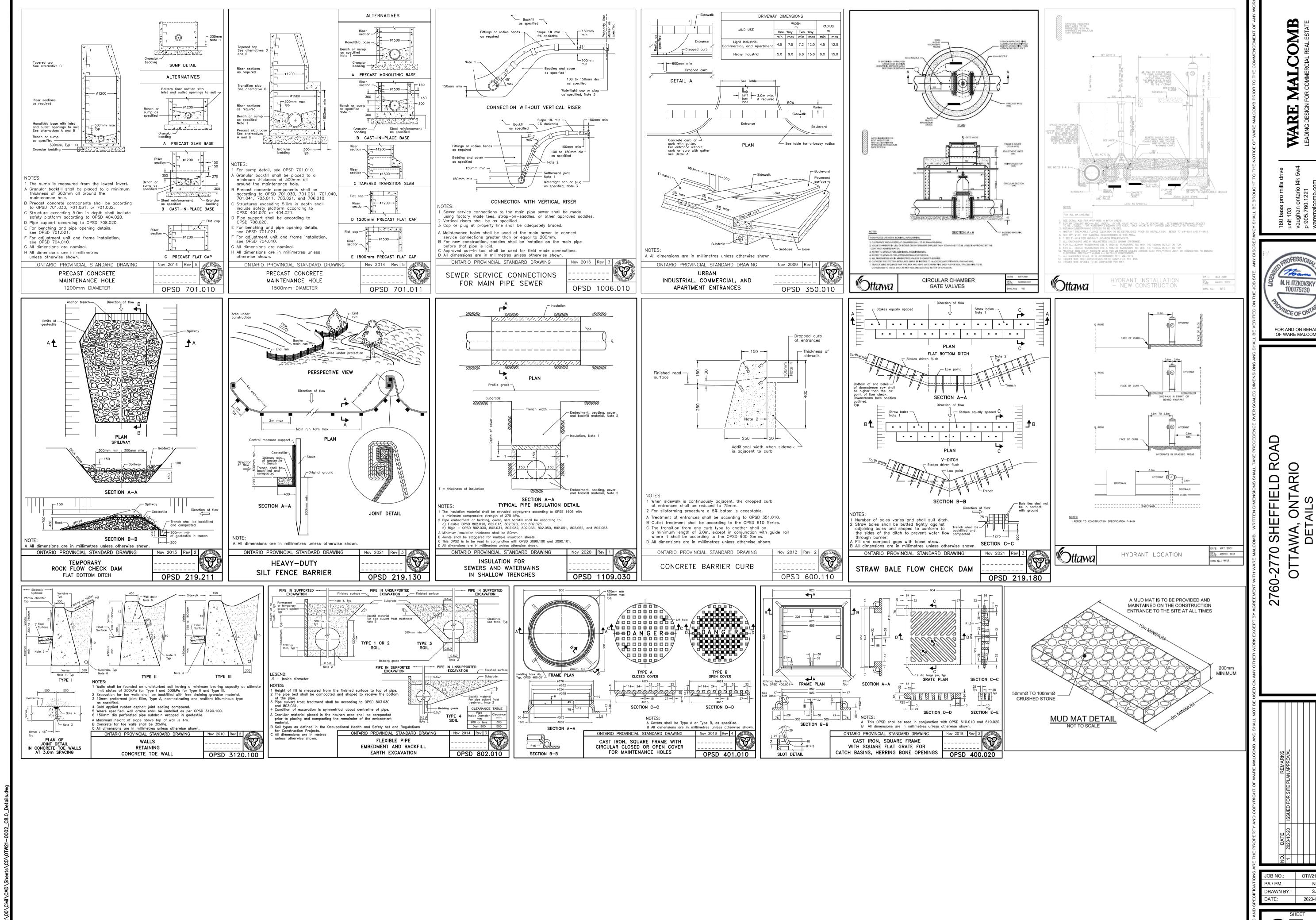
MALCOMB

WARE

OF WARE MALCOMB

0 FIELD 2760-2770 SHEF

DRAWN BY:



MALCOMB WARE

CAUTION: IF THIS LINE IS NOT 100mm THIS IS A REDUCED PRINT ⊢—

FOR AND ON BEHALF OF WARE MALCOMB

2023-10-20



DRAWING INDEX

TITLE	SHEET NO
COVER SHEET	1 OF 7
SYSTEM LAYOUT SHEET&SYSTEM CALCULATION SHEET	2-5 OF 7
SYSTEM OVERLAY SHEET	6 OF 7
DETAIL CHEET	7 OF 7

		PROJECT INFORMATION			
SITE CONTACT	PHIL ALLEN		416-286-5990	PHILALLEN@STOR	MCON.CA
ENGINEER / TECHNICAL SPECIALIST	ERIC CUMISKEY		289-380-3742	ECUMISKEY@STOR	RMCON.CA
SALES REP:	GREG DZIEWIECKI		437-231-6080	GREGD@STORMCC	ON.CA
PROJECT NO:	2023-037				
	REVISION	DATE		COMMENT	BY
	01	09/06/2023	REVISED AS F	PER LATEST COMMENTS	JD
COMMENTS:					

STORMOON 69 CONNIE CRESCENT CONCORD, ON L4K 3W1

OVER SHEET	1 OF 7
YSTEM LAYOUT SHEET&SYSTEM CALCULATION SHEET	2-5 OF 7
YSTEM OVERLAY SHEET	6 OF 7
ETAIL SHEET	7 OF 7

INFORMATION	NC	
416-286-5990		PHILALLEN@STORMCON.CA
289-380-3742		ECUMISKEY@STORMCON.CA
437-231-6080		GREGD@STORMCON.CA

13. ALL GREENSTORM CHAMBERS AND ACCESSORIES AS SPECIFIED IN THE ENGINEER'S PLANS INCLUDING NON-WOVEN GEOTEXTILE, CONNECTORS, QUADS, SIDEWALLS ADAPTER, RISER AND LINER WHERE APPLICABLE. 14. RECIPROCATING SAW OR ROUTER 15. TRANSIT OR LASER LEVEL MEASURING DEVICE
16. COMPACTION EQUIPMENT WITH MAXIMUM GROSS VEHICLE WEIGHT OF 12,000 LBS (5,440 KGS).
17. ACCEPTABLE FILL MATERIAL AS SHOWN IN INSTALLATION INSTRUCTIONS.
18. QUANTITIES FOR GEOSYNTHETIC ARE APPROXIMATE AND MAY VARY BASED ON OVERLAP, WASTAGE.

WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT CAN BE FOUND IN THE CONSTRUCTION GUIDE.

YOUR SUPPLIER IMMEDIATELY TO REPORT DAMAGE OR PACKING-LIST DISCREPANCIES.

1. COORDINATE WITH MANUFACTURER'S REPRESENTATIVE/DISTRIBUTOR FOR PRE-CONSTRUCTION MEETING AND SITE

2. ENGINEERING DRAWINGS SUPERSEDE ALL PROVIDED DOCUMENTATION. REFER TO SITE ENGINEERS FOR ADDITIONAL 2. ENGINEERING DIAWNINGS SUPERSEDE ALE PROVIDED DOCUMENTATION. REPERTO STILE ENGINEERS FOR ADDITIONAL INSTRUCTIONS.
3. COORDINATE GREENSTORM INSTALLATION ACTIVITIES WITH OTHER SITE ACTIVITIES
4. ALL DIMENSIONS ARE IN METERS UNLESS NOTED OTHERWISE
5. THE SUB-GRADE AND SIDE BACKFILL TO BE COMPACTED TO 95% SPD OR AS DIRECTED BY THE QUALIFIED ENGINEER.

6. PRESENCE OF GROUND WATER ABOVE THE BASE OF THE SYSTEM MUST BE IDENTIFIED TO STORMCON. ALL PUBLISHE MAXIMUM AND MINIMUM INSTALLATION DEPTHS ASSUME THE GROUND WATER IS AT OR BELOW THE BASE OF THE SYSTEM UNLESS OTHERWISE NOTED.

7. CONFIRM GEOTECHNICAL SOIL EVALUATION BY A QUALIFIED ENGINEER TO DETERMINE SUITABILITY OF STRUCTURAL.

CL-625 TRUCK LOADING AFTER 0.80m COVER. FOR NON-STANDARD LOADS AND INSTALLATION WITHIN GROUNDWATER

CONTROL MANUFACTURES NET RESERVATIVE DISTRIBUTION

1. PROTECT THE INSTALLATION AGAINST DAMAGE WITH CONSTRUCTION TAPE, FENCING OR OTHER MEANS TILL THE
CONSTRUCTION IS COMPLETE.

12. ENSURE THAT CONSTRUCTION FOLLOWS APPLICABLE FEDERAL, PROVINCIAL, LOCAL, MUNICIPAL AND LOCAL LAWS,
ORDINANCES, REGULATIONS AND SAFETY REQUIREMENTS.

13. VEHICULAR LOADING IS PROHIBITED UNTIL BACKFILLED AS PER MANUFACTURER'S INSTALLATION GUIDELINES. THE U OF EQUIPMENT OVER GREENSTORM CHAMBERS IS LIMITED:

NO EQUIPMENT IS ALLOWED ON BARE CHAMBERS.

NO RUBBER TIRED LOADER, DUMP TRUCK, OR EXCAVATORS ARE ALLOWED UNTIL PROPER FILL DEPTHS ARE

INSTALLATION
8. CONFIRM FOR BURIED UNDERGROUND UTILITIES INCLUDING GAS, ELECTRICAL, PIPELINES OR CONDUITS 9. ROOTS FROM SURROUNDING TREES MAY DAMAGE THE SYSTEM. DESIGN ENGINEER TO ENSURE ADEQUATE SEPA

CONTACT MANUFACTURER'S REPRESENTATIVE/DISTRIBUTOR

REACHED IN ACCORDANCE WITH THE CONSTRUCTION GUIDE.

CHECK - REQUIRED MATERIALS AND EQUIPMENT

INSPECTION DURING INSTALLATION.

- CONTRACTORS ARE EXPECTED TO COMPREHEND AND USE THE MOST CURRENT INSTALLATION INSTRUCTIONS PRIOI TO BEGINNING A SYSTEM INSTALLATION. FOR THE MOST CURRENT INSTRUCTIONS, CONTACT STORMCON AT (289) 380-3742 OR VISIT WWW.STORMCON.CA.
- 2. CONTACT STORMOON AT LEAST TWO WEEKS PRIOR TO SYSTEM INSTALLATION TO ARRANGE FOR A PRE-CONSTRUCT MEETING.
 3. USE GREENSTORM INSTALLATION INSTRUCTIONS AS A GUIDELINE ONLY FOR MINIMUM/MAXIMUM REQUIREMENTS. ACTUAL DESIGN MAY VARY. REFER TO APPROVED CONSTRUCTION DRAWINGS FOR JOB-SPECIFIC DETAILS. ACTION. DESIGN MAY VARY. REPER TO APPROVED CONSTRUCTION DRAWINGS FOR 30B-SPECIFIC DETAILS.

 ENGINEERING DRAWINGS SUPERSEDE ALL PROVIDED DOCUMENTATION.

 THE FOUNDATION STONE SHALL BE LEVEL AND COMPACTED PRIOR TO CHAMBER INSTALLATION.

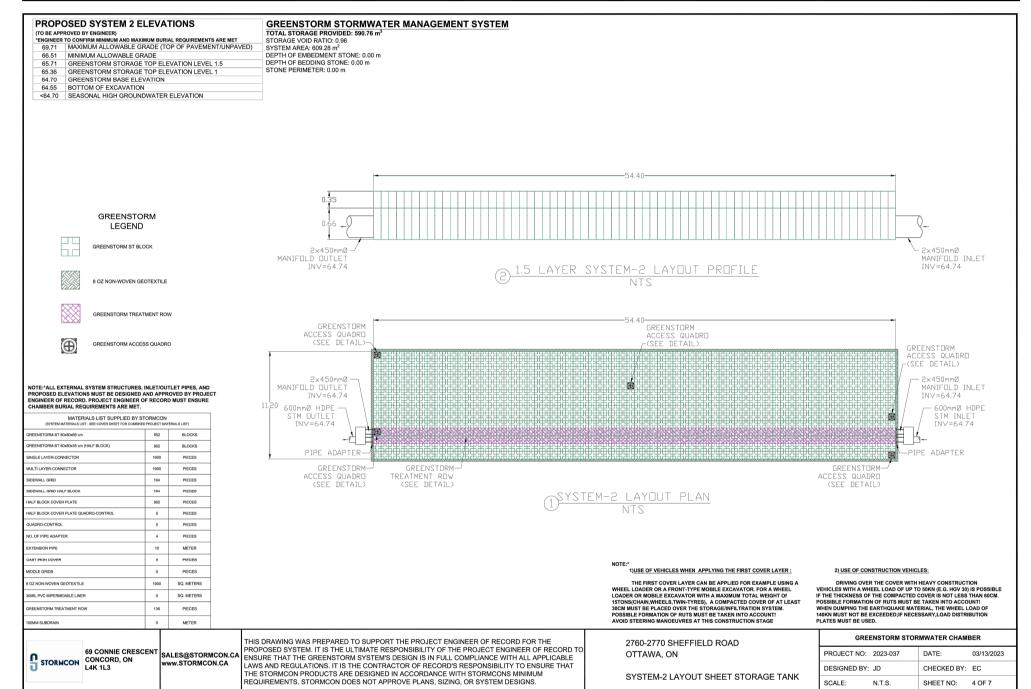
 ANY DISCREPANCIES WITH THE SYSTEM SUB-GRADE SOIL'S BEARING CAPACITY MUST BE REPORTED TO THE GEOTECHNICAL ENGINEER.

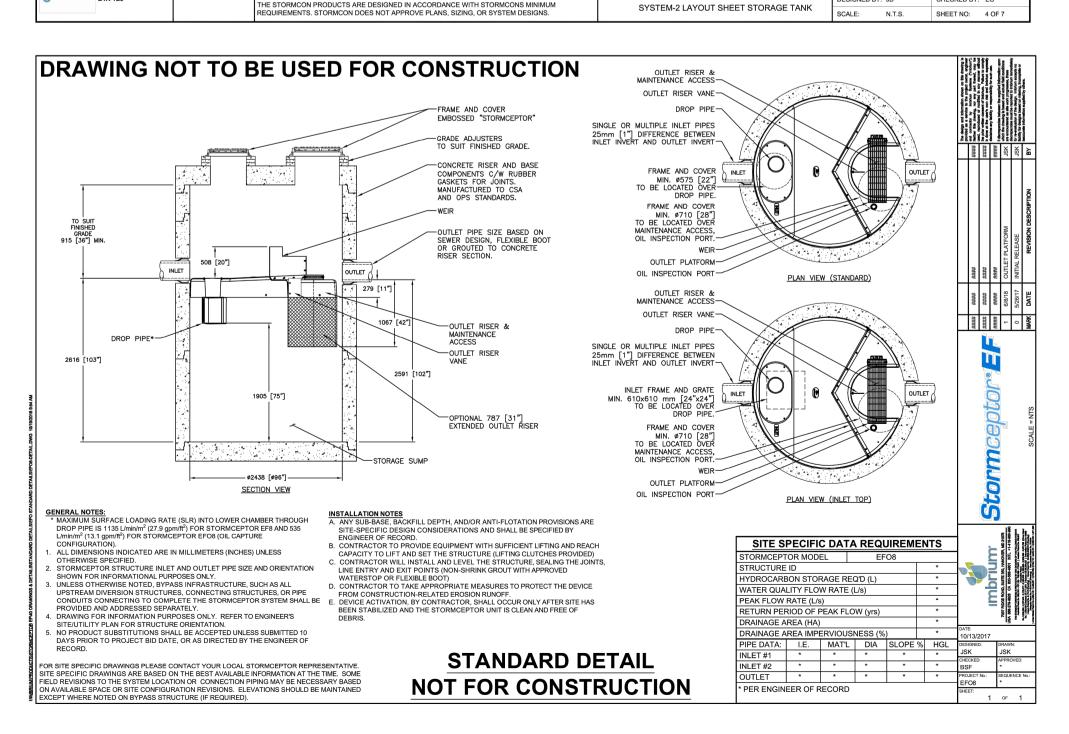
 CONTRACTOR TO REFER TO GREENSTORM INSTALLATION INSTRUCTIONS CONCERNING VEHICULAR TRAFFIC.
- RESPONSIBILITY FOR PREVENTING VEHICLES THAT EXCEED REQUIREMENTS SPECIFIED FROM TRAVELING ACROSS OR PARKING OVER THE CHAMBER SYSTEM LIES SOLELY WITH THE CONTRACTOR THROUGHOUT THE ENTIRE SITE CONSTRUCTION PROCESS. THE PLACEMENT OF WARNING TAPE, TEMPORARY FENCING, AND/OR APPROPRIATELY LOCATED SIGNS IS HIGHLY RECOMMENDED. TRAFFIC OF INSTALLATION EQUIPMENT OR OTHER VEHICULAR TRAFFIC OVER TOP OF THE GREENSTORM STORM

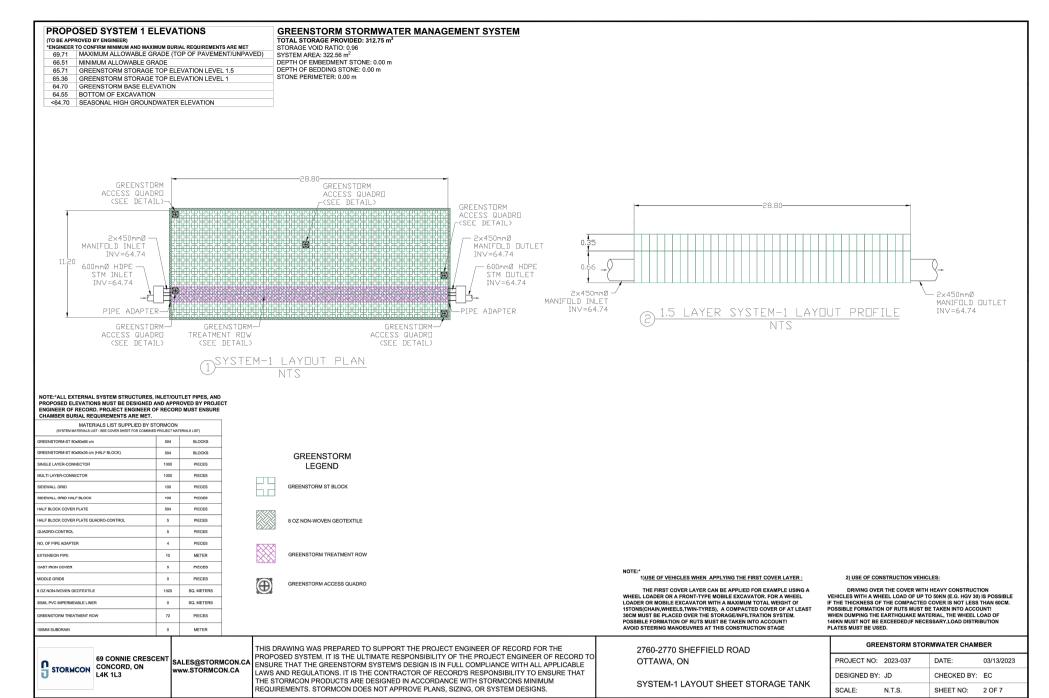
SYSTEM IS STRICTLY RESTRICTED AND PROHIBITED UNTIL SATISFACTORY COVER AND COMPACTION IS ACHIEVED

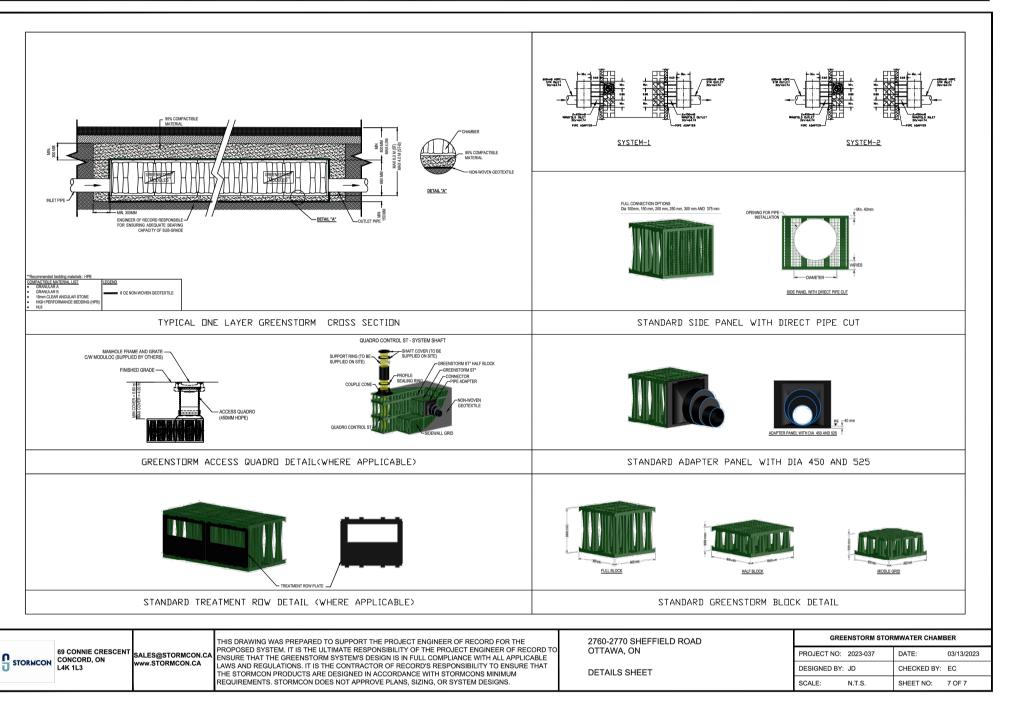
ACCORDING TO MANUFACTURER'S INSTALLATION INSTRUCTIONS.
EROSION AND SEDIMENT-CONTROL MEASURES MUST MEET LOCAL CODES AND THE DESIGN ENGINEER'S

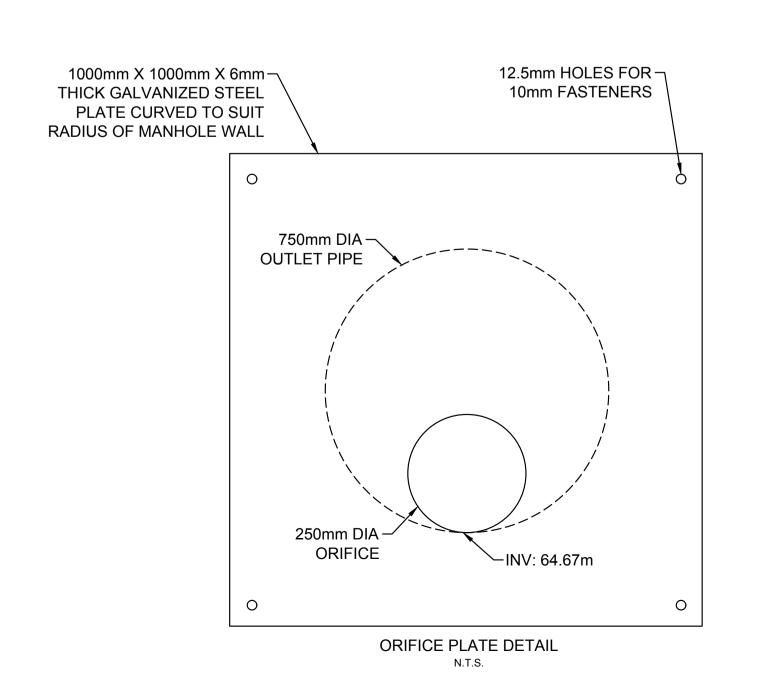
	SPECIFICATIONS THROUGHOUT THE ENTIRE SITE CONSTRUCTION PROCESS.
9.	GREENSTORM SYSTEMS MUST BE DESIGNED AND INSTALLED IN ACCORDANCE WITH STORMCON'S MINIMUM
	REQUIREMENTS. FAILURE TO DO SO WILL VOID THE LIMITED WARRANTY.



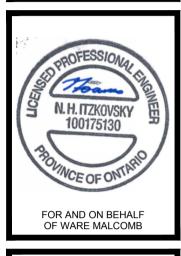




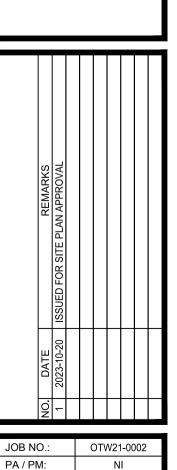




MALCOMB WARE



0 FIELD SHEF 0 .27 2760-



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