



October 10, 2022

Sudbury Conservation Commission
Department of Public Works Building
275 Old Lancaster Road
Sudbury, MA 01776

**Re: DEP File #301-1376
Plan Revision
Jonatas Storck
58 Massasoit Avenue, Sudbury, MA**

Dear Commission Members,

In response to comments raised during the October 3, 2022 Conservation Commission meeting we have revised the Design Plan for 58 Massasoit Avenue, Sudbury, MA. The revisions include the following:

- A dewatering location has been shown on the plan.
- A stockpile area has been shown on the plan.
- The plan has been revised to address the comments of the Board of Health by:
 1. providing a ten-foot separation between the leaching field and the retaining wall;
 2. reconfiguring the retaining wall and the proposed driveway.

This change resulted in an increase in the impervious area retaining wall from 197 S.F. to 203 S.F. and a decrease in the impervious area of the proposed driveway from 1,733 S.F. to 1,695 S.F. The septic reconfiguration decreased the total impervious area by 32 S.F.

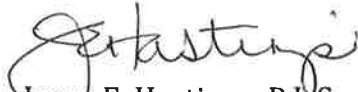
- The garage has been labeled “two car garage” for clarity.
- The erosion control barrier has been extended along the southerly property line.

This plan revision now results in a 165 square foot reduction in impervious area.

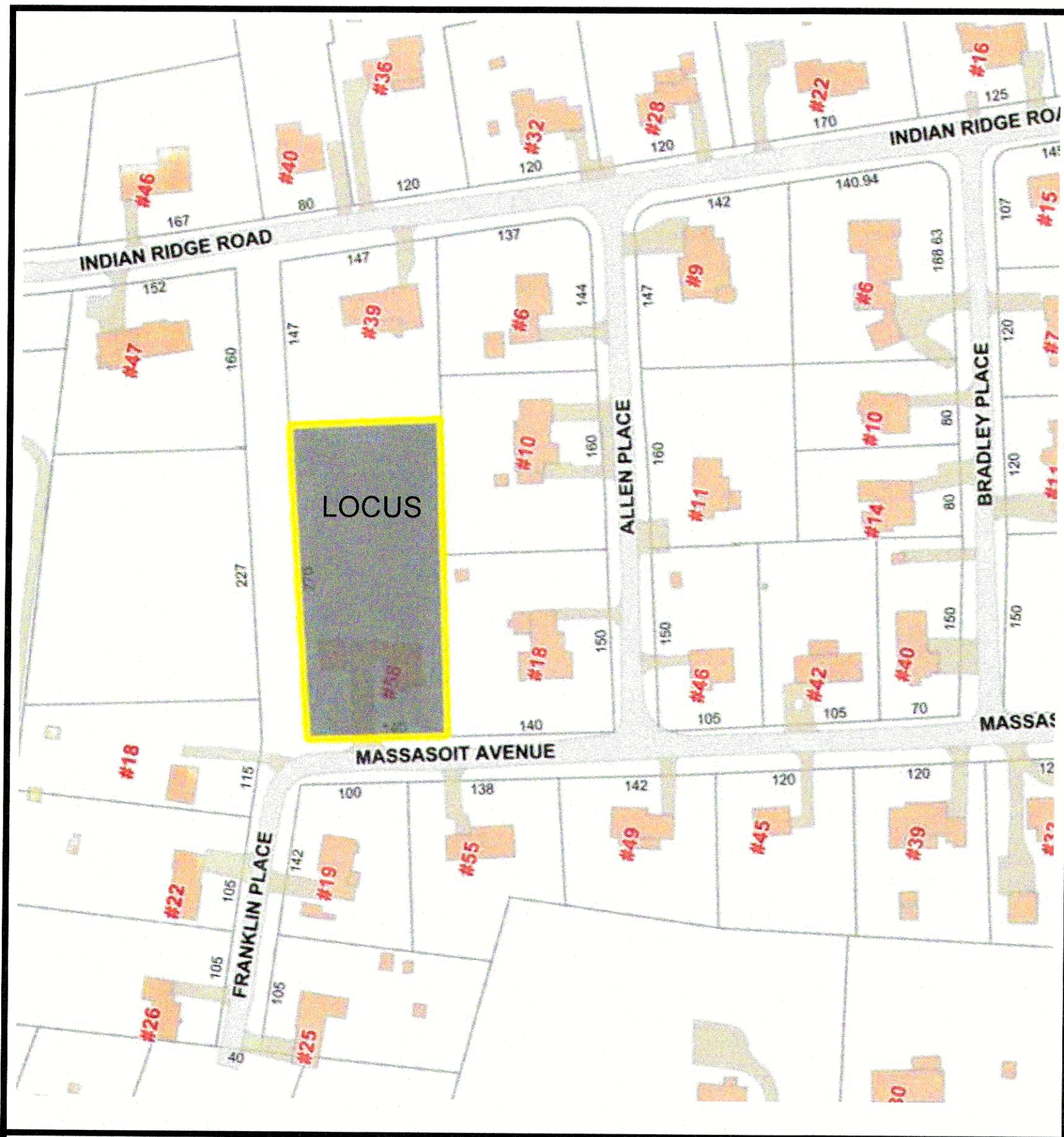
Attached please find six (6) copies of the revised plan entitled “Proposed House Location Plan, 58 Massasoit Avenue, Sudbury, MA” dated through October 10, 2022.

Thank you for your attention. Please call me at 508-429-1100 if you have any questions.

Sincerely,
GLM Engineering Consultants, Inc.


Joyce E. Hastings, P.L.S.
Wetland Consultant

cc. Jonatas Storck
DEP NERO



LOCUS MAP

ASSESSOR'S REFERENCE:
K09-0425

DEED REFERENCE:
MIDDLESEX COUNTY REGISTRY OF DEEDS
Bk. 79979, Pg. 14

PLAN REFERENCE:
PLAN No. 933 OF 1949

OWNER OF RECORD:
JBJS CHARLES, LLC c/o JONATAS STORCK
15 EDWARDS LANE
QUINCY, MA 02169

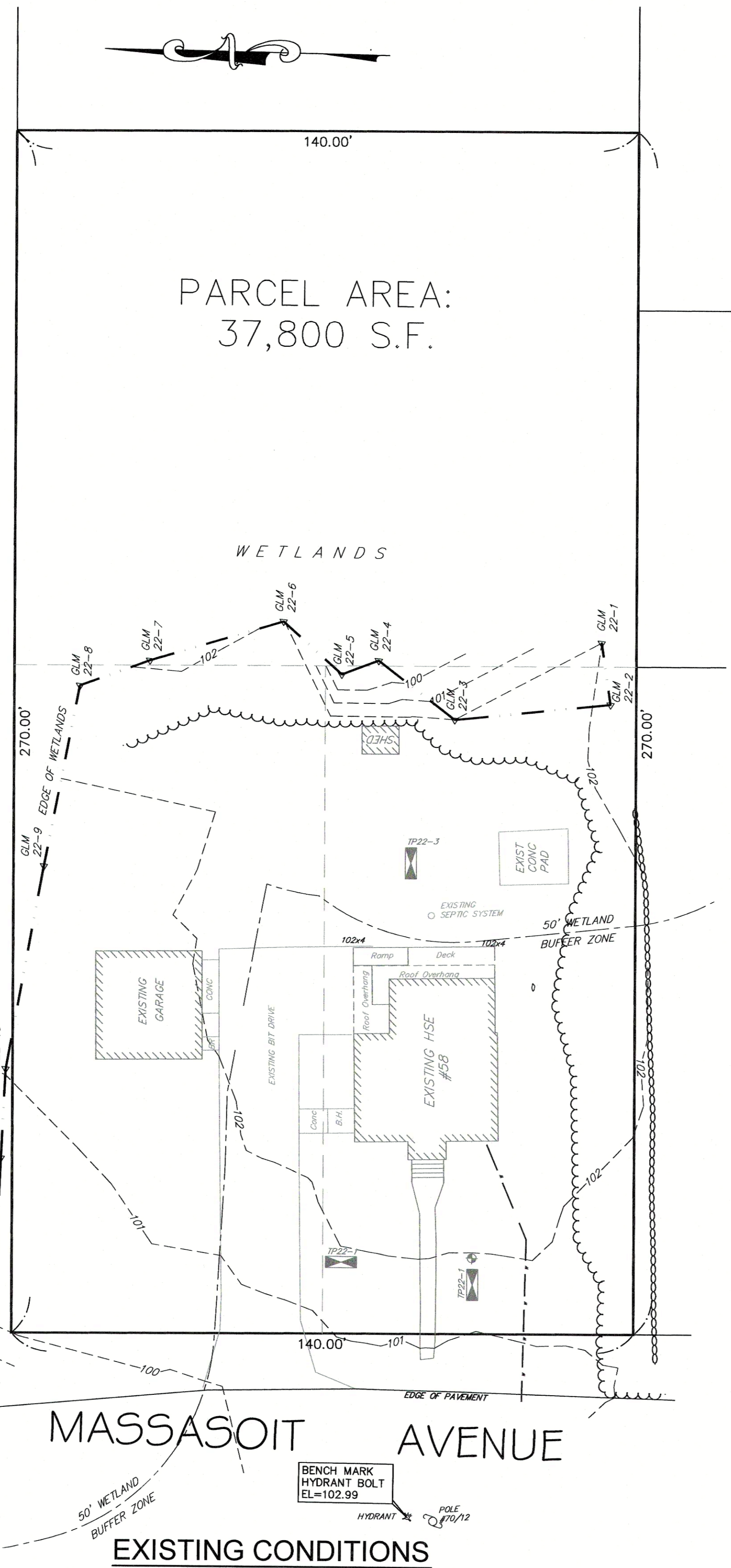
ZONING CLASSIFICATION:
RES A-1
MIN. LOT SIZE = 40,000 S.F.
MIN. FRONTAGE = 180 FEET

MIN. SETBACK REQUIREMENTS:
FRONT SET BACKS = 40 FEET
SIDE SETBACKS = 20 FEET
REAR SETBACKS = 30 FEET

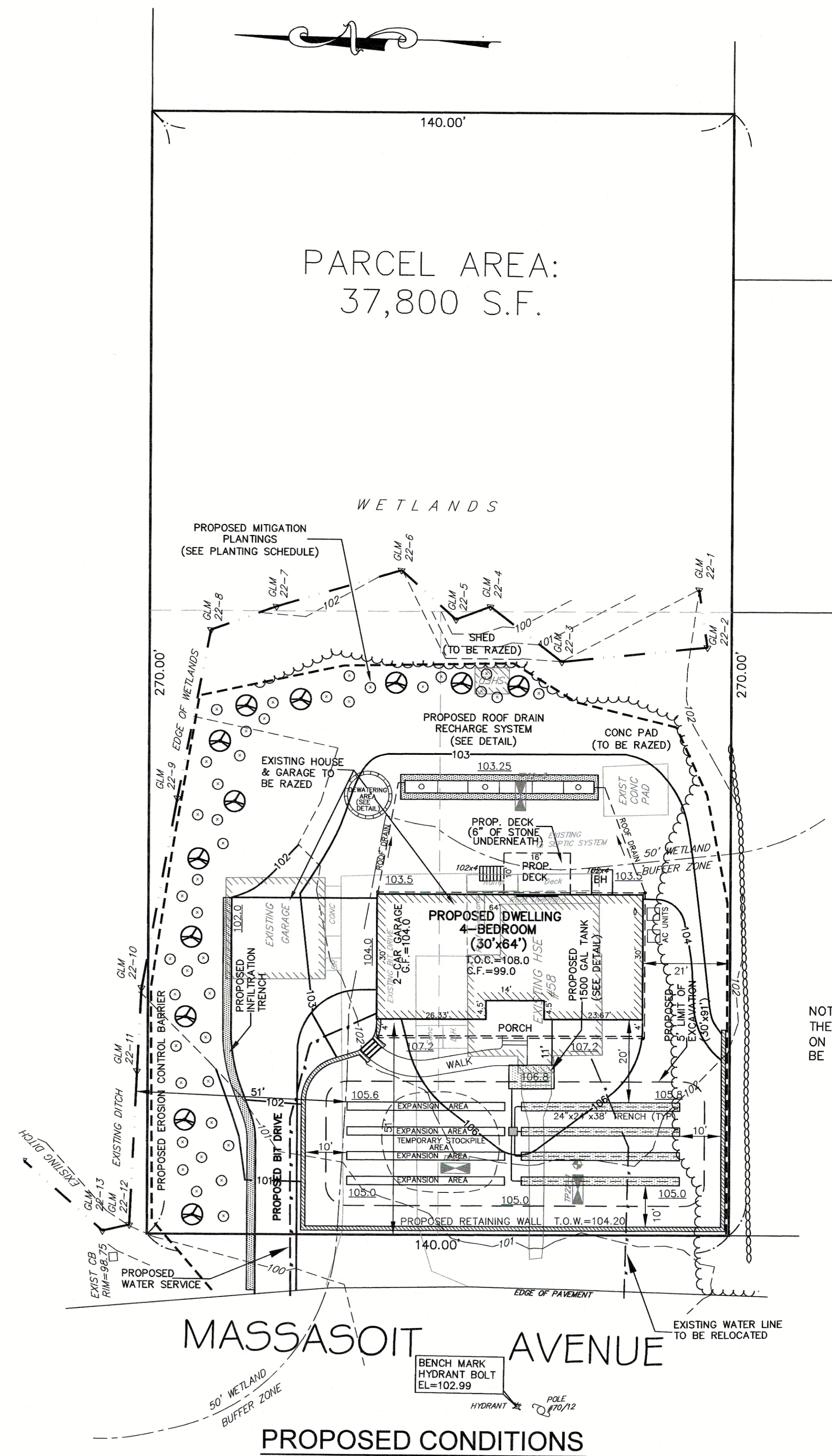
WETLAND BUFFER ACTIVITY

ACTIVITY	100' BUFFER
EXISTING CONDITIONS	
HOUSE & ROOF OH	1,305 S.F.
DRIVEWAY	2189 S.F.
CONC WALK/BULKHEAD	312 S.F.
GARAGE	581 S.F.
SHED	52 S.F.
CONC. PAD	189 S.F.
TOTAL:	4,628 S.F.
EXISTING DECK & RAMP - 130 S.F. (NOT INCLUDED IN IMPERVIOUS AREA)	
PROPOSED CONDITIONS	
HOUSE & PORCH	2,176 S.F.
DRIVEWAY	1,695 S.F.
WALK	161 S.F.
RETAINING WALL	203 S.F.
BULKHEAD	30 S.F.
DECK & STAIRS	180 S.F.
AC UNITS	18 S.F.
TOTAL:	4,463 S.F.

THE PROJECT RESULTS IN A 165 S.F. DECREASE IN BUFFER ZONE ACTIVITY



EXISTING CONDITIONS

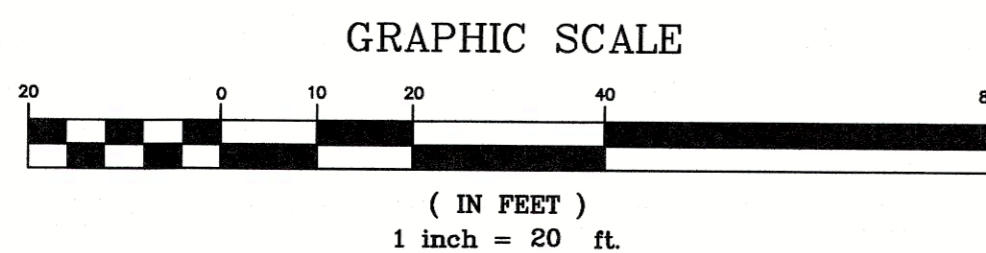


PROPOSED CONDITIONS

NOTE: A TEMPORARY STOCKPILE AREA IS SHOWN IN THE FRONT YARD, IN THE EXPANSION AREA (AS SHOWN ON THE PLAN). IF THERE IS A STOCKPILE, IT WILL BE SURROUNDED BY STAKED SILT FENCE.

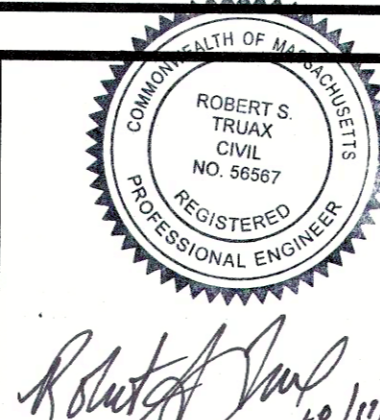
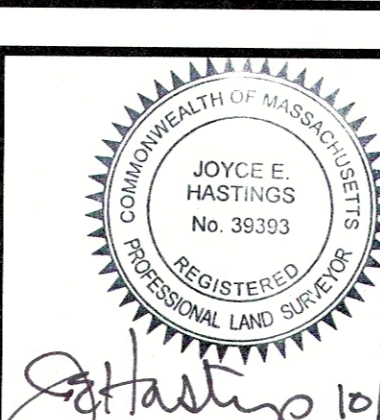


NOTE: IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY LOCATIONS AND ELEVATIONS OF EXISTING UTILITIES PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION. DIGSAFE IS TO BE NOTIFIED 72 WORKING HOURS IN ADVANCE OF CONSTRUCTION. DIGSAFE 1-888-344-7233



REVISIONS		
No.	DATE	DESCRIPTION
1	8/10/2022	DRAINAGE, GRADING, SEPTIC DETAILS
2	9/1/2022	STORMWATER, PLANTING
3	9/16/2022	REDUCE HOUSE, CALCS
4	10/10/2022	CONCOM COMMENTS

FLD.: RC, ML
DRW.: JEJ
CHKD.: RST



GLM Engineering Consultants, Inc.
19 EXCHANGE STREET
HOLLISTON, MA 01746
P: 508-429-1100 F: 508-429-7160
www.GLMengineering.com

PROPOSED HOUSE LOCATION PLAN
"58 MASSASOIT AVENUE"
SUDBURY, MASSACHUSETTS

APPLICANT:
JBJS CHARLES, LLC
15 EDWARDS LANE
QUINCY, MA 02169

JOB No. 17,240
DATE: 7/6/2022
SCALE: 1"=20'
SHEET: 1 of 3
PLAN #: 27,611

AS MITIGATION FOR ACTIVITY IN THE WETLAND BUFFER ZONE 2,200 S.F. OF EXISTING YARD WILL BE RESTORED WITH NATIVE VEGETATION.

PLANTING SCHEDULE

- - (40) SHRUBS (1 GALLON)
 - (10) - SWEET PEPPERBUSH (*Clethra alnifolia*)
 - (10) - Highbush Blueberry (*Vaccinium corymbosum*)
 - (10) - GRAY DOGWOOD (*Cornus racemosa*)
 - (5) - RED CHOKEBERRY (*Aronia arbutifolia*)
 - (5) - SERVICEBERRY (*Amelanchier arborea*)
- ⊙ - (12) TREES (2 GALLON) - 1.5 INCH CALIPER
 - (4) - RED MAPLE (*Acer rubrum*)
 - (4) - BALSAM FIR (*Abies balsamea*)
 - (4) - BLACK GUM (*Nyssa sylvatica*)

- NOTES:
- TREES AND SHRUBS WILL BE PLANTED AS SHOWN ON THE PLAN, WITH MINOR DEVIATIONS TO LOCATION BASED ON SITE CONDITIONS.
 - ALL PLANTINGS WILL BE WATERED AS NECESSARY AFTER PLANTING UNTIL SUCCESSFULLY ESTABLISHED.
 - ANY MODIFICATIONS TO PLAN SPECIES SHALL ONLY BE ALLOWED IF APPROVED BY SUDBURY CONSERVATION COMMISSION STAFF PRIOR.
 - THE RESTORATION AREA IS NOT INTENDED TO BE A LANDSCAPED AREA. IT IS TO REMAIN NATURAL. NO MULCH IS TO BE ADDED.
 - AS GRASS WITHIN THE RESTORATION AREA REACHES A HEIGHT OF 12 TO 14 INCHES, THE AREA WILL BE MOWED TO A HEIGHT OF 4 INCHES TO ENCOURAGE THE GROWTH OF THE PLANTED TREES AND SHRUBS.
 - AFTER THE SHRUBS AND TREES ARE PLANTED, THE RESTORATION SHALL BE OVERSEEDDED WITH A WETLAND SEED MIX.
 - DURING THE MONITORING PERIOD, THE WEEDS AT THE BASE OF THE PLANTED TREES AND SHRUBS SHALL BE PULLED TO ENCOURAGE THE GROWTH OF THE TREES AND SHRUBS.

AS ADDITIONAL MITIGATION FOR WETLAND BUFFER ZONE ACTIVITY, THE PROJECT WILL INCLUDE INVASIVE SPECIES MANAGEMENT.

AS ADDITIONAL MITIGATION FOR WETLAND BUFFER ZONE ACTIVITY, THE PROJECT WILL INCLUDE INVASIVE SPECIES MANAGEMENT.

NOTES:
The applicant is proposing to reduce the prevalence of invasive species within the wetland buffer zone along the northerly side and easterly sides of the property.

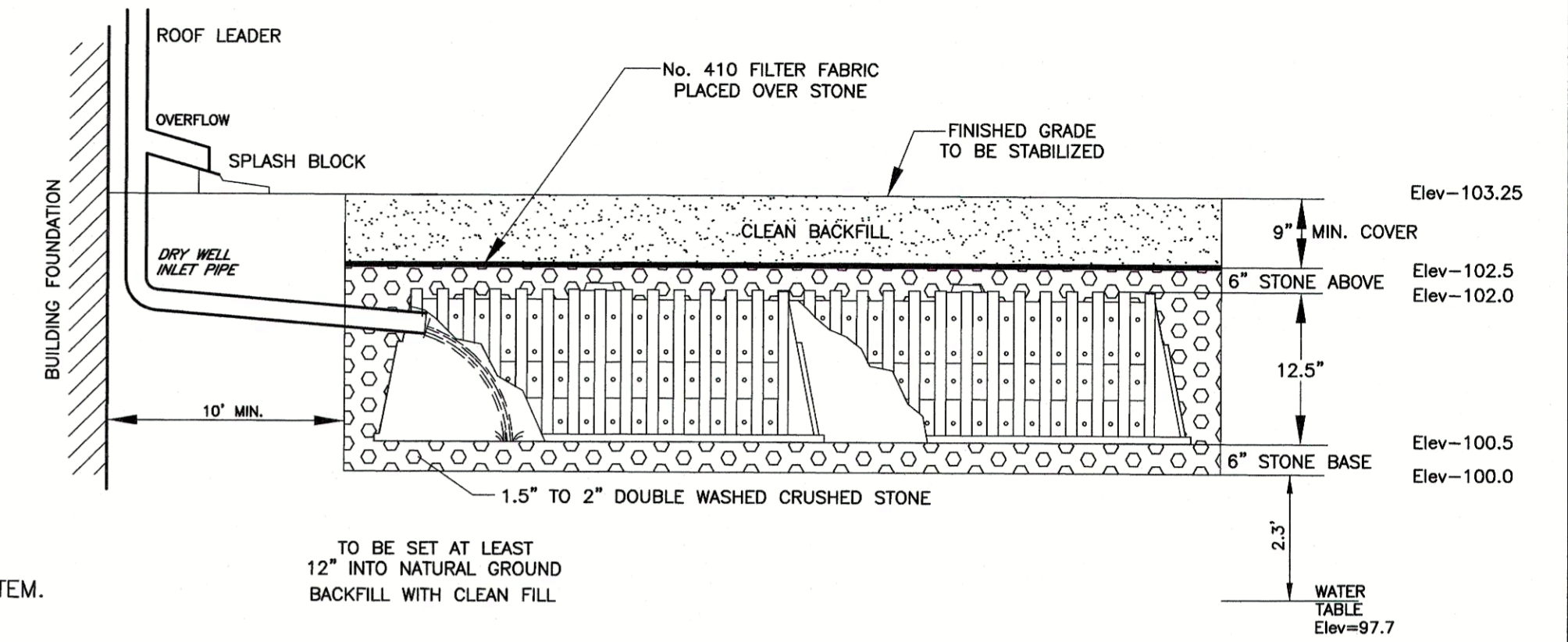
The undesirable species in this area include:
 Tatarian honeysuckle (*Lonicera tatarica*)
 Glossy Buckthorn (*Frangula alnus*)
 Oriental Bittersweet (*Celastrus orbiculatus*)
 Japanese Knotweed (*Polygonum cuspidatum*)

Methods
 Woody shrubs and vines will be either pried (smaller specimens) using leverage tools (i.e. puller bar, weed wrench, etc.), or they will be cut and the stems/trunks will be and painted immediately with concentrated, wetland safe herbicide. Herbicides shall only be applied by a licensed applicator and the product will be approved by the Conservation Commission prior to use. The area will be monitored for re-sprouts or missed plants during the build out of the project; undesirable vegetation can be treated with a dilute herbicide solution (usually 2%) applied to the leaves during the mid-late growing season.

All woody or herbaceous materials will be removed from the site and disposed of so as not to foster propagation of these species elsewhere; either buried or properly composted, as appropriate. During the build out of the project, the areas of invasive treatment will be inspected and spot treated by either mechanical or legally applied chemical means so that at the closure of the Order of Conditions, the property will have benefited from one or more years of invasive species management that will diminish the prevalence of these species.

Invasive Vegetation Management for Habitat Improvement

- Remove small undesirable shrubs via wrenching tool as practicable.
- Cut woody stems with licensed application of herbicide.
- Legally dispose of all salvage vegetation.
- Monitor for re-sprouts and spot treat/maintain treatment through issuance of Certificate of Compliance.



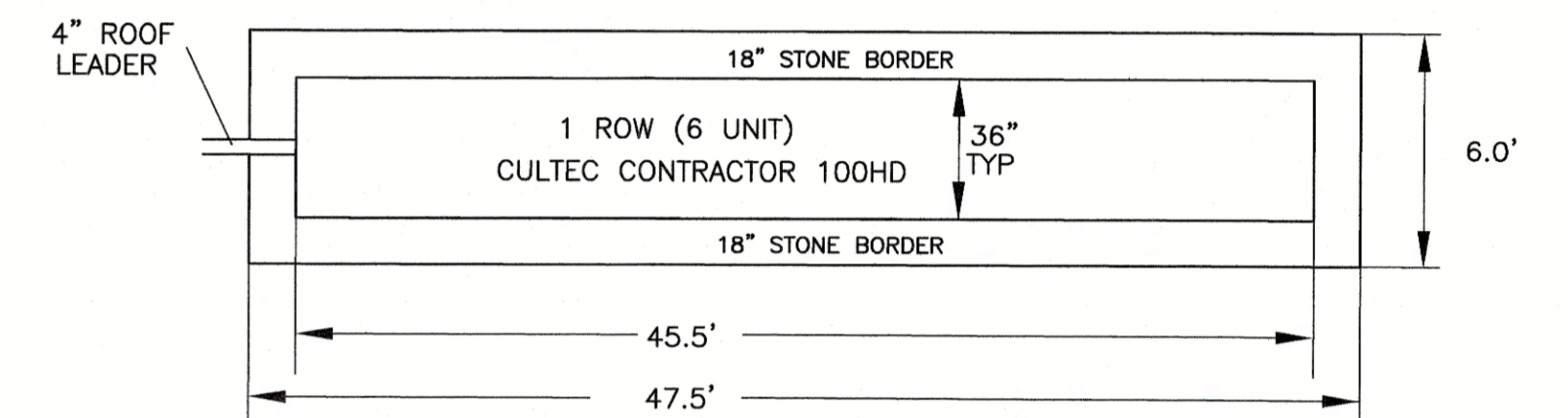
DRAINAGE SYSTEM CALCULATIONS
 ALL ROOF RUNOFF TO BE DIRECTED TO RECHARGE SYSTEM.

PROPOSED ROOF AREA = 2,432 S.F.

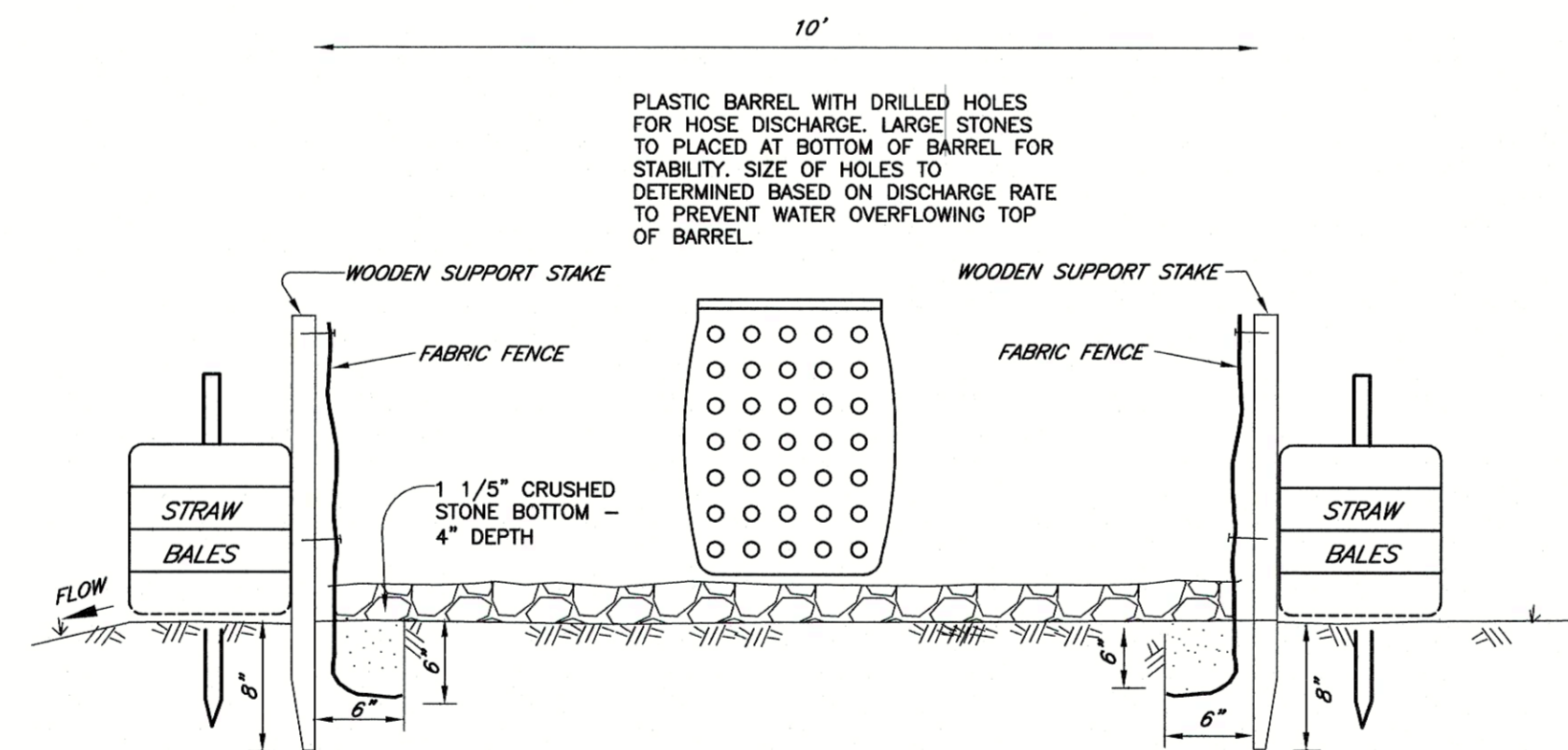
VOLUME REQUIRED FOR 1" OF RUNOFF OVER ROOF AREA:
 2,432 S.F. x 1" = 202.67 C.F.

DRAINAGE SYSTEM:
 CULTEC CHAMBERS - CONTRACTOR 100HD WITH STONE
 TOTAL STORAGE WITH 18" STONE = 37.76 C.F./UNIT

VOLUME PROVIDED:
 6 SYSTEMS x 37.76 C.F. = 226.6 C.F.

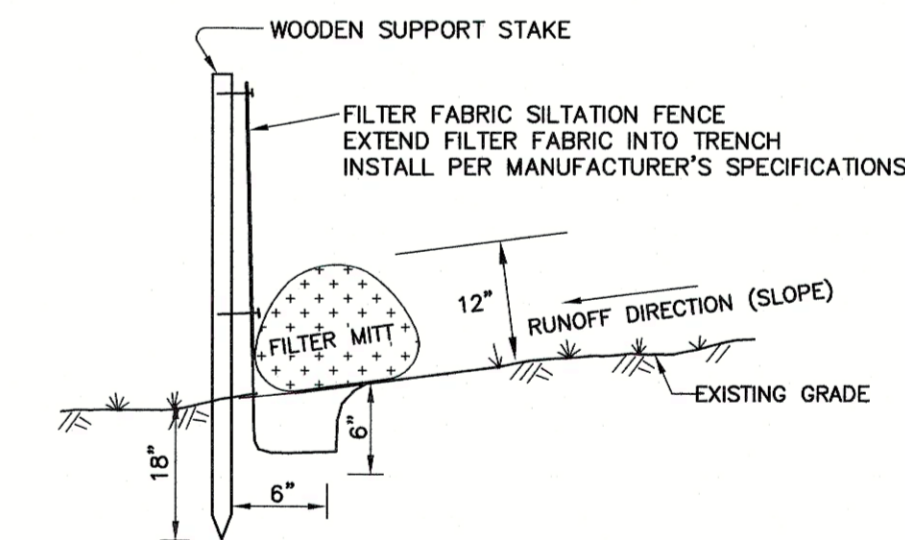


**CULTEC DRY WELL SYSTEM
 FOR ROOF RUNOFF INFILTRATION
 CULTEC CONTRACTOR 100HD**
 N.T.S.

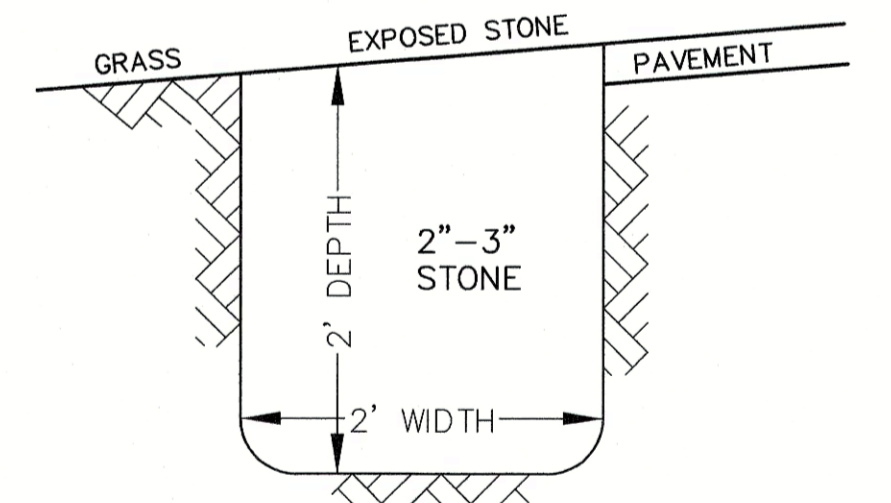


DEWATERING:
 IN THE EVENT DEWATERING IS REQUIRED, GROUNDWATER WILL BE PUMPED FROM THE EXCAVATION AND DISCHARGED INTO A DESIGNATED DEWATERING AREA AS SHOWN ON THE PLAN. THE DESIGN ENGINEER AND THE SUDBURY CONSERVATION AGENT SHALL BE NOTIFIED PRIOR TO DE-WATERING.

DE-WATERING DETAIL
 N.T.S.



**EROSION CONTROL BARRIER
 FILTER MITT W/ SILT FENCE**
 N.T.S.



INFILTRATION TRENCH DETAIL
 N.T.S.

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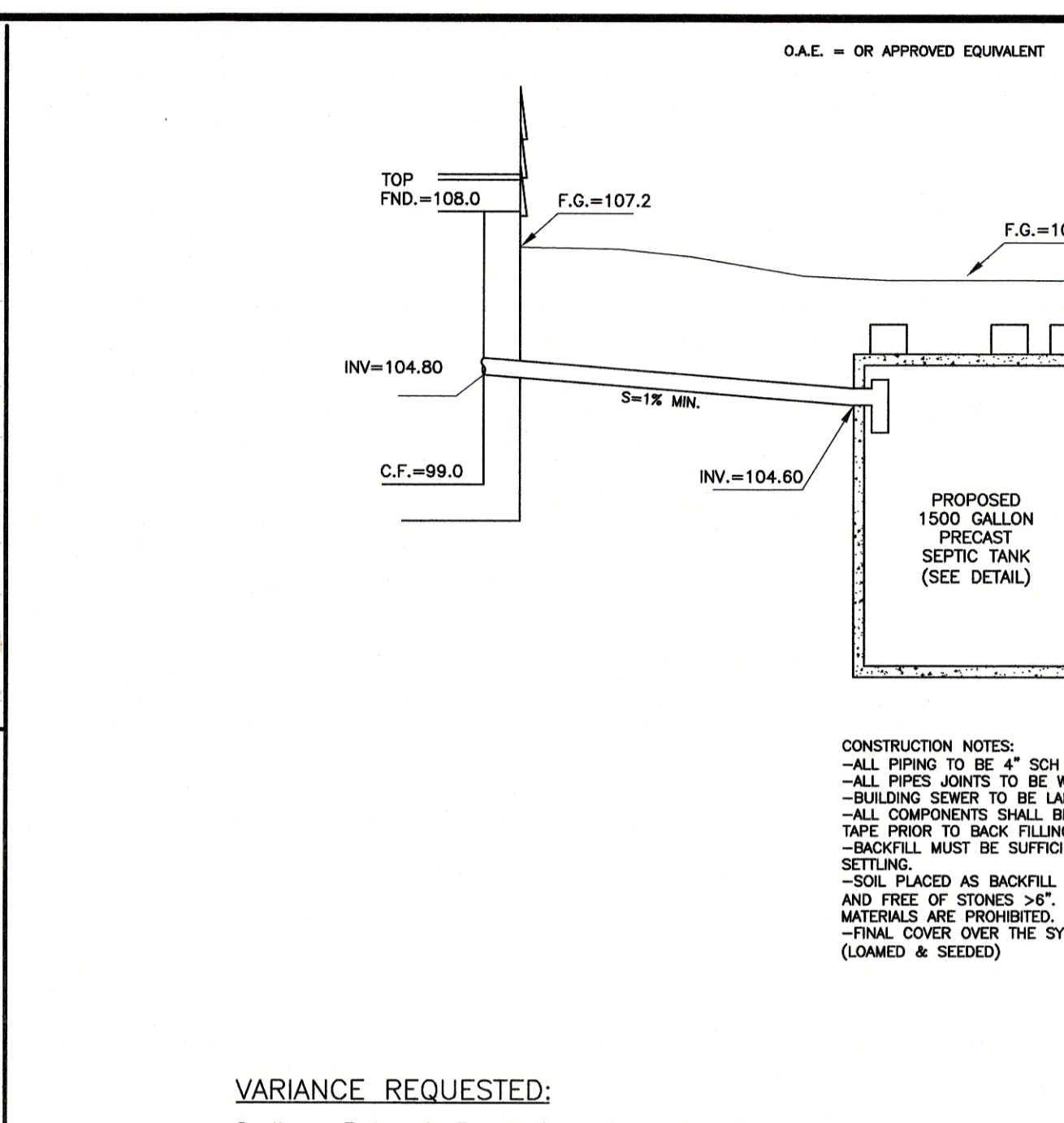
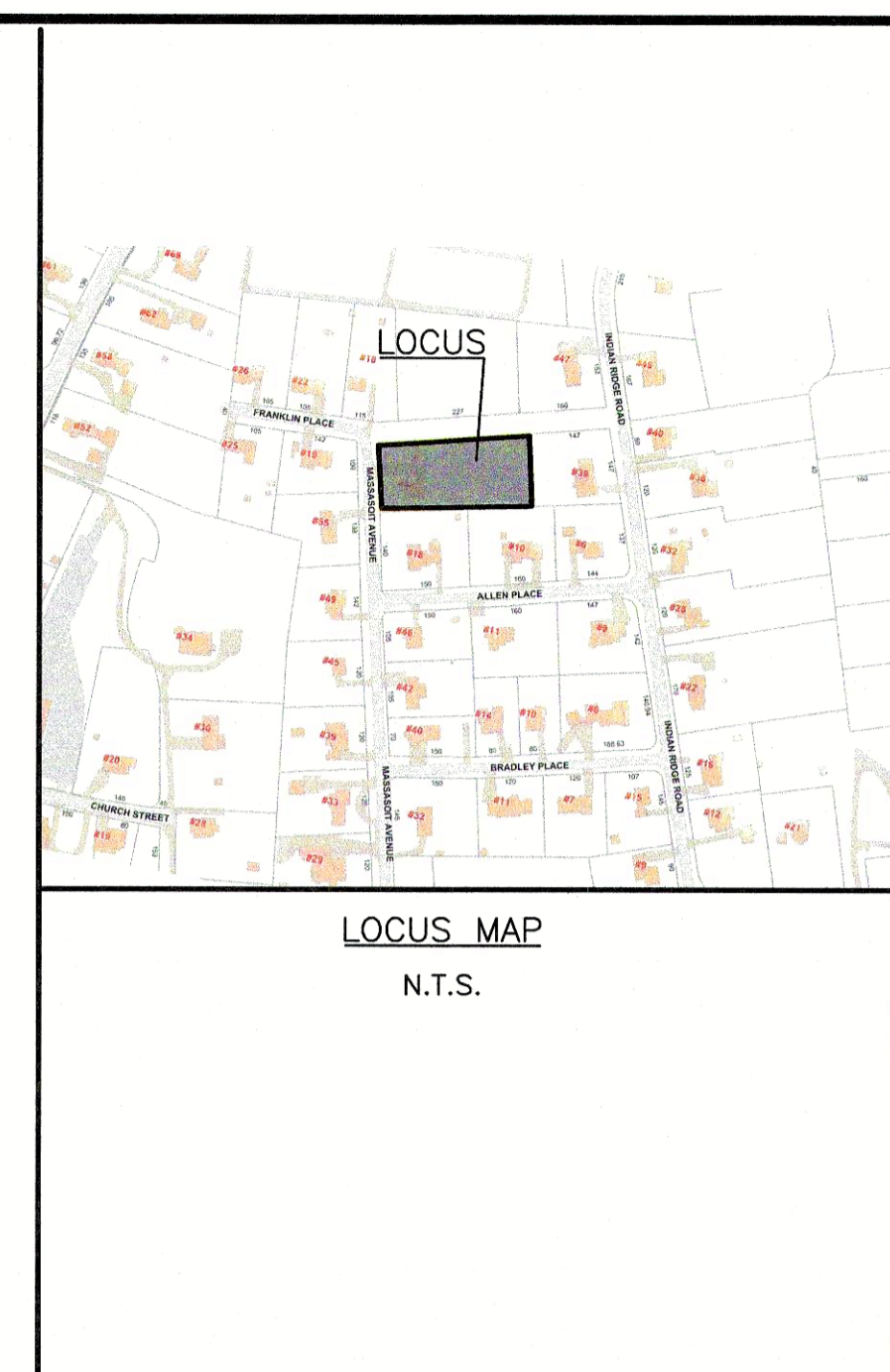
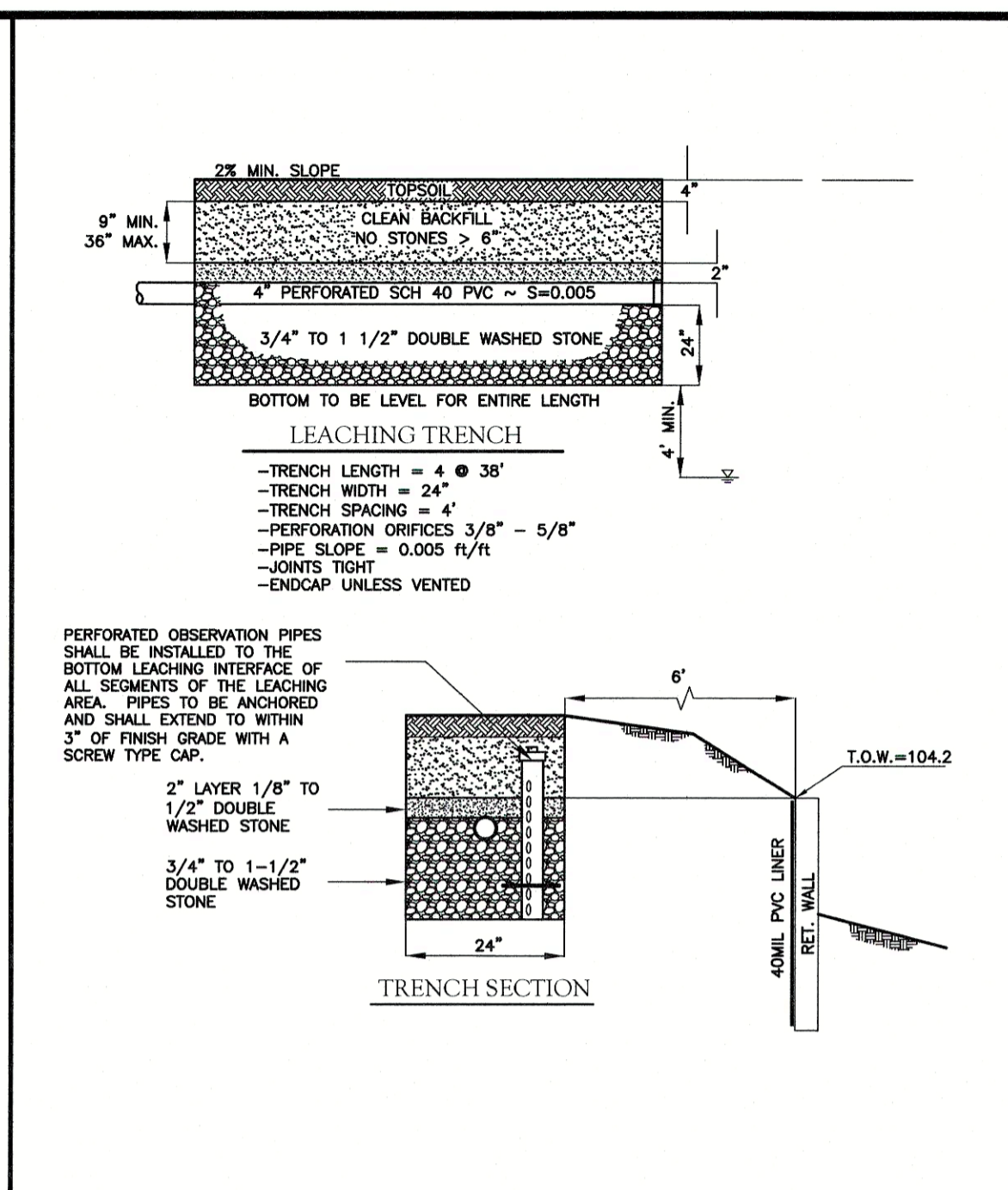
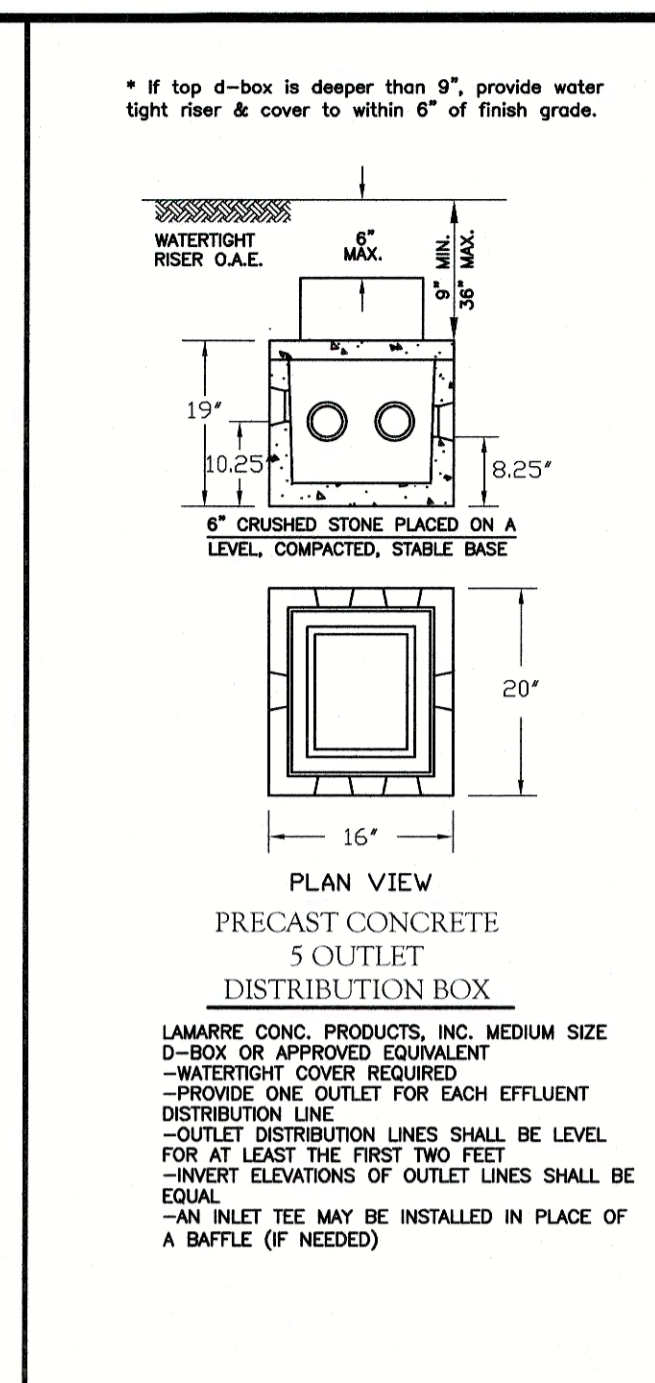
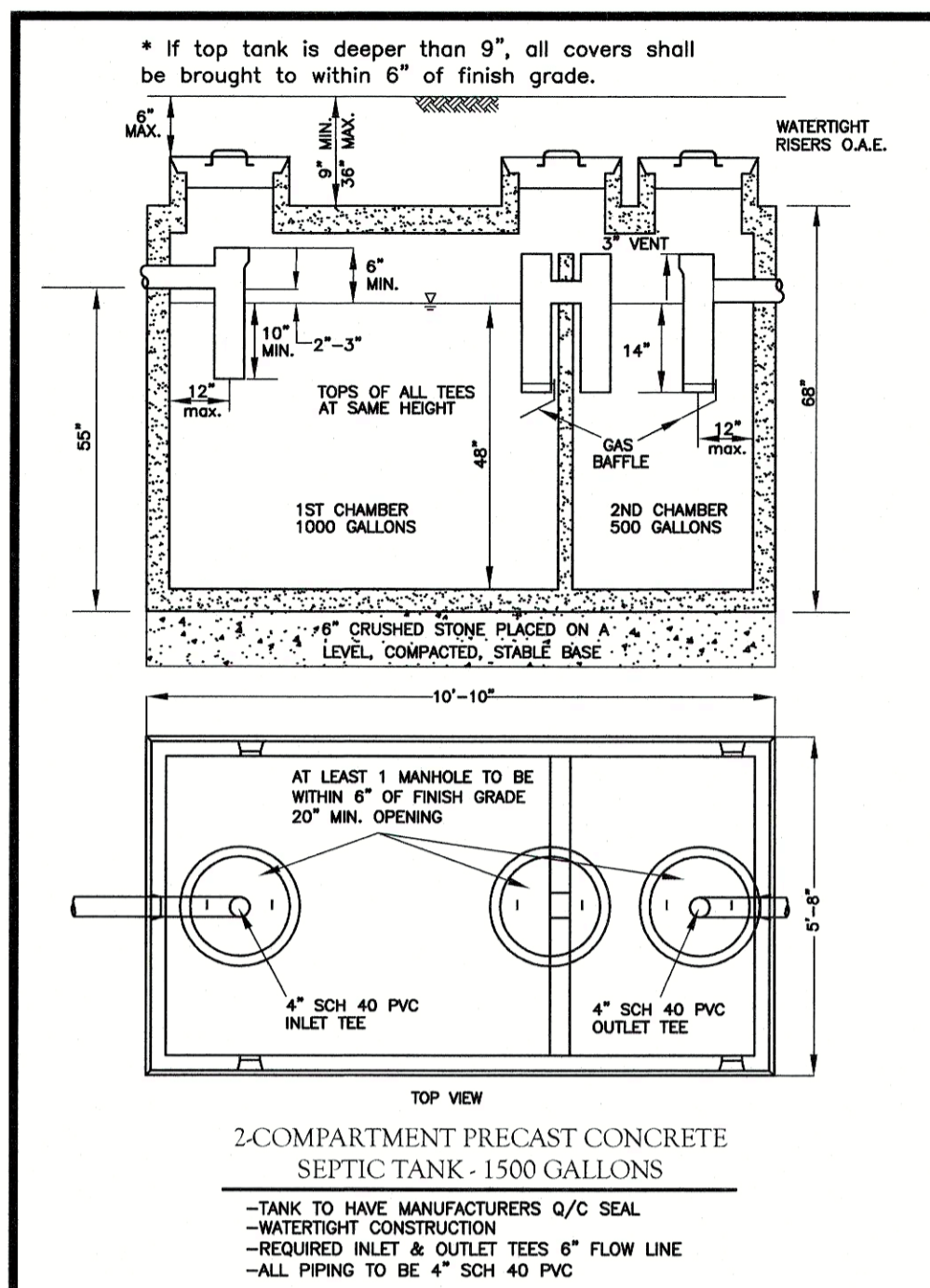
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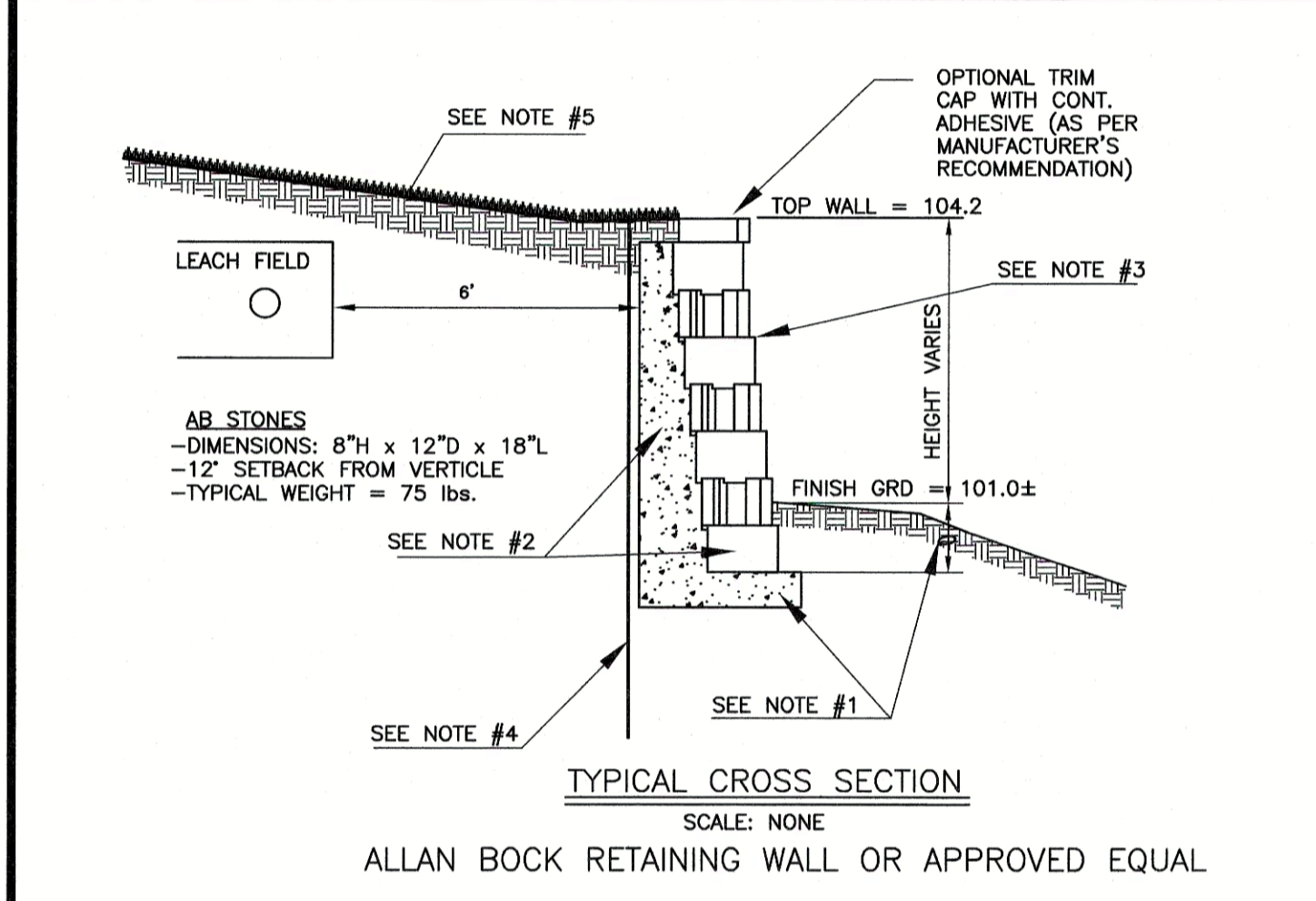
PERCOLATION TEST RESULTS

PERC#	DEPTH	PERC#	DEPTH
3/23/22	40-58"		
SOAK	11:20	SOAK	
12"	11:35	12"	
6"	11:42	6"	
6"	11:50	6"	
RATE	3 MPI	RATE	

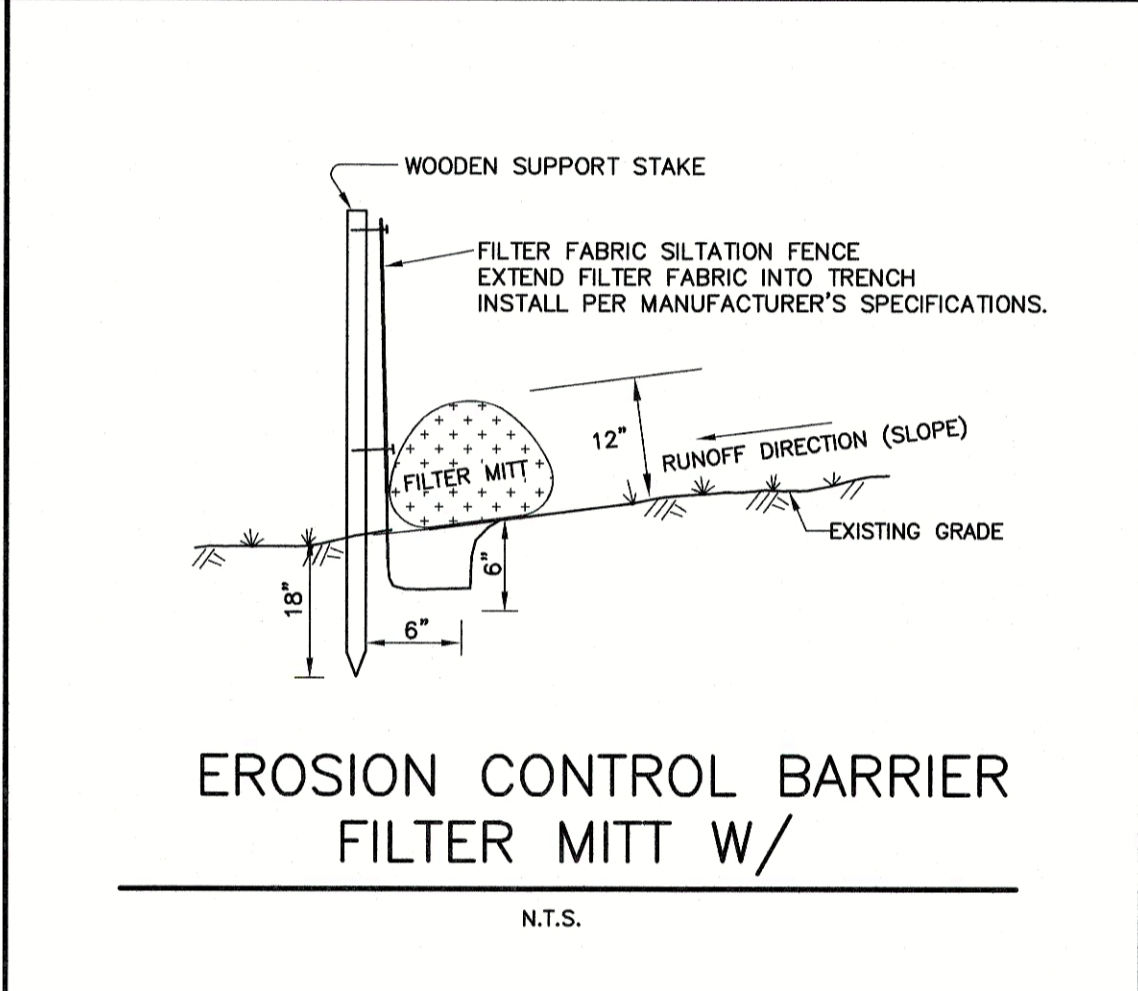
DEEP OBSERVATION HOLE LOGS

DEEP HOLE - 22-1		DEEP HOLE - 22-2		DEEP HOLE - 22-3	
HORIZ DEPTH	DATE: 3/23/22	HORIZ DEPTH	DATE: 8/30/22	HORIZ DEPTH	DATE: 8/30/22
0"	FILL	0"	FILL	0"	FILL
26"	A SANDY LOAM 10R3/2	32"	A SANDY LOAM 10R3/2	48"	B SANDY LOAM 10R5/6
32"	B SANDY LOAM 10R5/6	42"	B SANDY LOAM 10R5/6	48"	C2 SAND Med-Coarse 25% Gravel 2.5/5/3
38"	C1 SAND Fine Sand 2.5/5/4	64"	Hole was collapsing Encourager Old Roof Drain	54"	GROUNDEWATER OBSERVED
64"	GROUNDEWATER OBSERVED	56"	GROUNDEWATER OBSERVED	92"	GROUNDEWATER OBSERVED
120"	GROUNDEWATER OBSERVED	48"	SOIL MOTTLING	54"	SOIL MOTTLING
60"	SOIL MOTTLING	48"	GROUNDEWATER MONITORED	54"	GROUNDEWATER MONITORED
48"	GROUNDEWATER MONITORED	56"	ESTIMATED SEASONAL HIGH GROUNDEWATER	54"	ESTIMATED SEASONAL HIGH GROUNDEWATER
48"	ESTIMATED SEASONAL HIGH GROUNDEWATER	97.5		97.5	

CONSTRUCTION NOTES:
 - ALL PIPING TO BE 4" SCH 40 PVC UNLESS OTHERWISE NOTED.
 - ALL PIPES JOINTS TO BE WATER TIGHT.
 - BUILDING SEWER TO BE LAID ON COMPACTED FIRM BASE.
 - ALL COMPONENTS SHALL BE MARKED WITH MAGNETIC MARKING TAPE PRIOR TO BACK FILLING.
 - BACKFILL MUST BE SUFFICIENTLY COMPACTED TO PREVENT SETTLING.
 - SOIL PLACED AS BACKFILL OVER THE SYSTEM MUST BE CLEAN AND FREE OF STONES > 3/4" TALLIES, CLAY OR SIMILAR MATERIALS ARE PROHIBITED.
 - FINAL COVER OVER THE SYSTEM SHALL BE STABILIZED (LOAMED & SEED)



RETAINING WALL NOTES:
 #1 - BASE TRENCH & BASE MATERIAL TRENCH TO BE 18" WIDE AND MUST INCLUDE THE REMOVAL OF ANY ORGANIC/FILL MATERIAL. BASE MATERIAL IS ANY CLEAN, COMPACTIBLE GRANULAR MATERIAL 1/4"-3/4" DIAMETER. PLACE AT LEAST 12" OF BASE MATERIAL IN THE TRENCH AND COMPACT WITH A MECHANICAL PLATE COMPACTOR. BASE MUST BE LEVEL. A THIN LAYER OF SAND MAY BE USED TO MAKE LEVELING EASIER. A CONCRETE LEVELING PAD MAY BE USED INSTEAD OF USING BASE MATERIAL.
 #2 - BASE COURSE AND DRAINAGE MATERIAL. LAY BASE COURSE BLOCKS CHECKING FOR STRAIGHTNESS AND LEVEL. FILL THE BLOCK HOLLOW CORES AND 6"-8" BEHIND BLOCKS WITH DRAINAGE MATERIAL (SAME AS BASE MATERIAL). USE A PLATE COMPACTOR TO COMPACT THE AGGREGATE IN THE BLOCKS AND BEHIND THE WALL. RUN COMPACTOR OVER TOP OF BLOCKS FIRST, THEN OVER DRAINAGE MATERIAL.
 #3 - SECOND COURSE AND ADDITIONAL COURSES. STACK NEXT ROW OF BLOCKS, AND EACH ADDITIONAL ROW, WITH SEAMS OFFSET FROM THE BLOCKS BELOW. CHECK FOR STRAIGHTNESS & LEVEL. FILL HOLLOW CORES AND 6"-8" BEHIND BLOCKS WITH DRAINAGE MATERIAL AND COMPACT.
 #4 - IMPERVIOUS BARRIER. INSTALL A 40 MIL HDPE MEMBRANE BEHIND DRAINAGE MATERIAL. TOP OF LINER ELEV=104.0; 50T LINER ELEV=100.0
 #5 - SLOPE STABILIZATION. AREA BETWEEN RETAINING WALL AND LEACH FIELD. AREA OVER LEACH FIELD AND ANY OTHER DISTURBED AREAS SHALL BE LOAMED & SEED. ALL HEAVY EQUIPMENT MUST BE KEPT AT LEAST 3 FEET FROM THE BACK OF THE WALL. WALL DESIGN DOES NOT ACCOUNT FOR SURCHARGES FROM HEAVY COMPACTION EQUIPMENT.



**EROSION CONTROL BARRIER
 FILTER MITT W/**
 N.T.S.

VARIANCE REQUESTED:
 Sudbury Rules & Regulations Governing the Subsurface Disposal of Sewage.
 Section X. Retaining Walls:
 Request a variance to install a retaining wall in lieu of the slope requirement as detailed in Title V.

NOTES:
 1. EXISTING TANK SHALL BE PUMPED CLEAN, CRUSHED, FILLED WITH GRAVEL AND ABANDONED PER TITLE 5.
 2. ANY CONTAMINATED MATERIAL ENCOUNTERED DURING EXCAVATION SHALL BE REMOVED AND PROPERLY DISPOSED.
 3. EXISTING DWELLING TO BE RAZED.

ASSESSOR'S REFERENCE:
 PARCEL ID: K09-0425

***NO GARBAGE GRINDER ALLOWED
 NEW CONSTRUCTION**

TYPE OF FACILITY SERVED
 SINGLE FAMILY DWELLING - 4 BEDROOMS

DESIGN FLOW :
 4 BEDROOMS x 110 GAL./DAY/BEDROOM = 440 G.P.D.

SEPTIC TANK SIZING:
 DESIGN FLOW x 200%
 440 GAL. x 200% = 880 GALLONS

SEPTIC TANK PROPOSED: 1500 GALLON 2-COMPARTMENT

SYSTEM SIZING CALCULATIONS:
 GARBAGE GRINDER: NO
 DESIGN FLOW = 440 GPD
 EFFLUENT LOADING RATE = 0.74 GPD/SF
 LEACHING AREA REQUIRED (Sudbury BOH): 150 sf/bedroom
 LEACHING AREA REQUIRED = 150 x 4 = 600 s.f. (Sidewall Area)

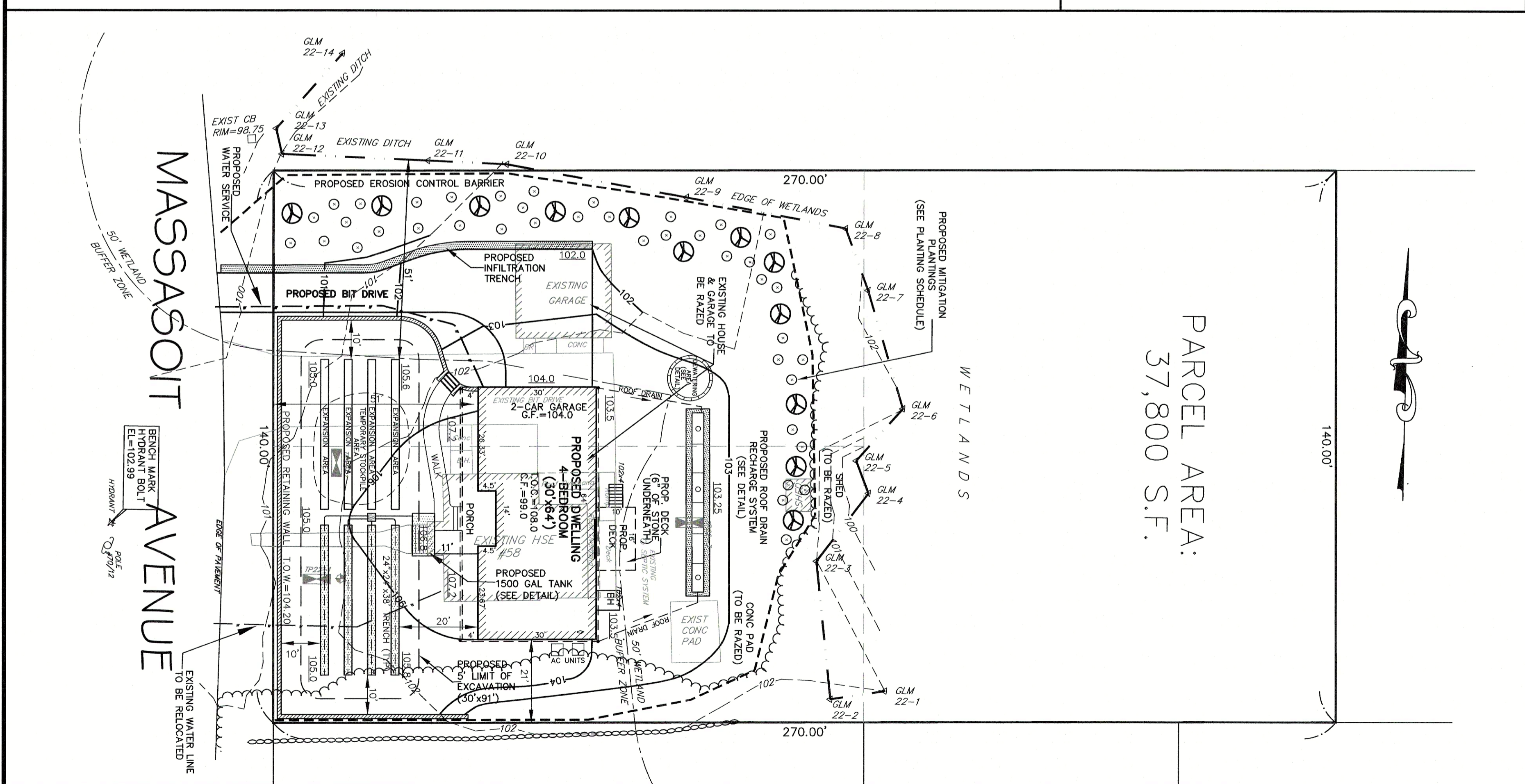
SYSTEM DESIGN
 LEACHING TRENCHES - 4 @ 38'L x 24"W x 24"H
 SIDEWALL AREA: 8 x 38' x 2'H = 608 S.F.
 LEACHING AREA PROVIDED:
 SIDEWALL AREA = 608 S.F.
 BOTTOM AREA = 304 S.F.
 FLOW PROVIDED = 912 S.F. x 0.74 GAL./S.F. = 674 G.P.D.

LEGEND
 ---168--- EXISTING CONTOUR ELEVATION
 ---166--- PROPOSED CONTOUR ELEVATION
 DEEP TEST SOIL PIT
 PERCOLATION TEST
 163.0 PROPOSED SPOT ELEVATION

NO PUBLIC WELLS WITHIN 400 FEET EXCEPT AS SHOWN.
 NO PRIVATE WELLS WITHIN 200 FEET EXCEPT AS SHOWN.
 NO WETLANDS, INLAND BANKS, OR SURFACE WATERS WITHIN 150 FEET EXCEPT AS SHOWN.
 NO SURFACE WATER SUPPLIES WITHIN 400 FEET EXCEPT AS SHOWN.
 NO SURFACE DRAINAGE EXCEPT AS SHOWN.
 NO SURFACE OR SUBSURFACE DRAINS WHICH INTERCEPT GROUND WATER EXCEPT AS SHOWN.
 LOCATION OF FLOODWAY SHOWN IF ANY.
 NO 100 YEAR FLOOD LIMIT, EXCEPT IF SHOWN.
 SITE IS NOT WITHIN A NITROGEN SENSITIVE AREA.

IT SHALL BE THE RESPONSIBILITY OF THE APPLICANT AND OR CONTRACTOR TO VERIFY LOCATIONS AND ELEVATIONS OF EXISTING UTILITIES PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION. ALL UTILITIES WITHIN A BUILDING SHALL BE REVIEWED BY THE APPROPRIATE CONTRACTOR PRIOR TO THE COMMENCEMENT OF ANY INTERIOR OR EXTERIOR WORK. DIG SAFE IS TO BE NOTIFIED 72 BUSINESS HOURS IN ADVANCE OF CONSTRUCTION (1-888-344-7233)

ASSOIL CLASSIFICATION: CLASS I
 CERTIFIED SOIL EVALUATOR : ROBERT TRUAX
 WITNESSED BY B.O.H. AGENT : ROBERT LAZO
 DESIGN PERCOLATION RATE : 3.0 M.P.I.



SOIL EVALUATOR CERTIFICATION: I certify that I am currently approved by the D.E.P. pursuant to 310 CMR 15.017 to conduct soil evaluations and that the above analysis has been performed by me consistent with the required training, expertise and experience described in 310 CMR 15.017. I further certify that the results of my soil evaluation are accurate and in accordance with 310 CMR 15.100 through 15.107.

GENERAL CONSTRUCTION NOTES:
 1. THE DETAILS SHOWN ARE GENERAL IN NATURE AND ARE NOT INTENDED TO SHOW EVERY POSSIBLE INSTALLATION REQUIREMENT. THE CONTRACTOR SHALL BE KNOWLEDGEABLE IN THE REFERENCED CODES, INSTALLATION REQUIREMENTS AND REQUIRE THE NECESSARY LABOR, MATERIALS AND EQUIPMENT TO INSTALL A FUNCTIONAL SYSTEM.
 2. COMPONENTS SHALL NOT TO BE BACKFILLED OR CONCEALED WITHOUT INSPECTION BY AND PERMISSION FROM BOARD OF HEALTH.
 3. IT IS THE RESPONSIBILITY OF THE APPLICANT TO OBTAIN THE SERVICES OF THE DESIGN ENGINEER TO PROVIDE PROPER INSPECTIONS FOR CERTIFICATIONS AND AS-BUILT PLANS.
 4. INSTALLER REQUIRED TO PROVIDE PROPER CERTIFICATION.
 5. LEACHING AREA TO BE FLAGGED FOR PROTECTION UNTIL CERTIFICATE OF COMPLIANCE IS OBTAINED.
 6. NO STOCKPILING OF MATERIALS OVER SYSTEM.
 7. NO TRAFFIC OR PARKING OVER SYSTEM.
 8. BOTTOM AND SIDES OF EXCAVATION AREA SHALL BE SCARIFIED.
 9. PLACEMENT OF FILL SHALL BE DONE BY STOCKPILING AT THE EDGE OF THE EXCAVATION AREA AND PUSHED OR CAST IN PLACE.
 10. FILL SHALL NOT BE PLACED IN THE EXCAVATION AREA DURING RAIN OR SNOW STORM.
 11. IF ANY FILL IS TO BE PLACED BELOW THE WATER TABLE, DEWATERING IS REQUIRED PRIOR TO PLACEMENT.

TO ENSURE THE PERFORMANCE OF THE SYSTEM, MAINTENANCE SHOULD BE PERFORMED ANNUALLY BY A LICENSED SEWAGE PUMPING CONTRACTOR.

GLM ENGINEERING CONSULTANTS, INC. WILL NOT BE RESPONSIBLE FOR THE PERFORMANCE OF THIS SYSTEM UNLESS CONSTRUCTED AND INSPECTED IN ACCORDANCE WITH THIS PLAN. INSPECTIONS TO BE DONE AFTER EXCAVATION FOR SYSTEM AND AFTER CONSTRUCTION, BUT PRIOR TO BACKFILLING. ANY ALTERATION MUST BE APPROVED IN WRITING BY GLM ENGINEERING CONSULTANTS, INC.

5' LIMIT OF EXCAVATION (30' x 91')
 ALL TOPSOIL, SUBSOIL AND ANY DELETERIOUS MATERIAL MUST BE REMOVED FROM THE AREA OF THE SYSTEM AND OTHER DESIGNATED LIMITS AND FILLED WITH APPROVED, CLEAN, GRANULAR SAND. THE FILL SHALL NOT CONTAIN ANY MATERIAL LARGER THAN 2 INCHES AND BE GRADED SO NOT MORE THAN 45% OF THE SAMPLE IS RETAINED IN A #4 SIEVE, OF THAT PASSING, 20% OR LESS SHALL PASS A #100 SIEVE AND 5% OR LESS SHALL PASS THE #200 SIEVE. NOT MORE THAN 90% SHALL BE RETAINED ON THE #50 SIEVE. SAMPLE FOR SIEVE ANALYSIS TO BE TAKEN FROM SAMPLE IN PLACE.

ALL CONSTRUCTION & COMPONENTS SHALL CONFORM TO THE LATEST REQUIREMENTS OF 310 CMR 15.000 TITLE 5 OF THE STATE ENVIRONMENTAL CODE AND THE TOWN OF SUDBURY BOARD OF HEALTH REGULATIONS.

ASSOIL CLASSIFICATION: CLASS I
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 WITNESSED BY B.O.H. AGENT : ROBERT LAZO
 DESIGN PERCOLATION RATE : 3.0 M.P.I.

LEGEND
 ---168--- EXISTING CONTOUR ELEVATION
 ---166--- PROPOSED CONTOUR ELEVATION
 DEEP TEST SOIL PIT
 PERCOLATION TEST
 163.0 PROPOSED SPOT ELEVATION

NO PUBLIC WELLS WITHIN 400 FEET EXCEPT AS SHOWN.
 NO PRIVATE WELLS WITHIN 200 FEET EXCEPT AS SHOWN.
 NO WETLANDS, INLAND BANKS, OR SURFACE WATERS WITHIN 150 FEET EXCEPT AS SHOWN.
 NO SURFACE WATER SUPPLIES WITHIN 400 FEET EXCEPT AS SHOWN.
 NO SURFACE DRAINAGE EXCEPT AS SHOWN.
 NO SURFACE OR SUBSURFACE DRAINS WHICH INTERCEPT GROUND WATER EXCEPT AS SHOWN.
 LOCATION OF FLOODWAY SHOWN IF ANY.
 NO 100 YEAR FLOOD LIMIT, EXCEPT IF SHOWN.
 SITE IS NOT WITHIN A NITROGEN SENSITIVE AREA.

IT SHALL BE THE RESPONSIBILITY OF THE APPLICANT AND OR CONTRACTOR TO VERIFY LOCATIONS AND ELEVATIONS OF EXISTING UTILITIES PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION. ALL UTILITIES WITHIN A BUILDING SHALL BE REVIEWED BY THE APPROPRIATE CONTRACTOR PRIOR TO THE COMMENCEMENT OF ANY INTERIOR OR EXTERIOR WORK. DIG SAFE IS TO BE NOTIFIED 72 BUSINESS HOURS IN ADVANCE OF CONSTRUCTION (1-888-344-7233)

ASSOIL CLASSIFICATION: CLASS I
 CERTIFIED SOIL EVALUATOR : ROBERT TRUAX
 WITNESSED BY B.O.H. AGENT : ROBERT LAZO
 DESIGN PERCOLATION RATE : 3.0 M.P.I.

SOIL EVALUATOR CERTIFICATION: I certify that I am currently approved by the D.E.P. pursuant to 310 CMR 15.017 to conduct soil evaluations and that the above analysis has been performed by me consistent with the required training, expertise and experience described in 310 CMR 15.017. I further certify that the results of my soil evaluation are accurate and in accordance with 310 CMR 15.100 through 15.107.

GENERAL CONSTRUCTION NOTES:
 1. THE DETAILS SHOWN ARE GENERAL IN NATURE AND ARE NOT INTENDED TO SHOW EVERY POSSIBLE INSTALLATION REQUIREMENT. THE CONTRACTOR SHALL BE KNOWLEDGEABLE IN THE REFERENCED CODES, INSTALLATION REQUIREMENTS AND REQUIRE THE NECESSARY LABOR, MATERIALS AND EQUIPMENT TO INSTALL A FUNCTIONAL SYSTEM.
 2. COMPONENTS SHALL NOT TO BE BACKFILLED OR CONCEALED WITHOUT INSPECTION BY AND PERMISSION FROM BOARD OF HEALTH.
 3. IT IS THE RESPONSIBILITY OF THE APPLICANT TO OBTAIN THE SERVICES OF THE DESIGN ENGINEER TO PROVIDE PROPER INSPECTIONS FOR CERTIFICATIONS AND AS-BUILT PLANS.
 4. INSTALLER REQUIRED TO PROVIDE PROPER CERTIFICATION.
 5. LEACHING AREA TO BE FLAGGED FOR PROTECTION UNTIL CERTIFICATE OF COMPLIANCE IS OBTAINED.
 6. NO STOCKPILING OF MATERIALS OVER SYSTEM.
 7. NO TRAFFIC OR PARKING OVER SYSTEM.
 8. BOTTOM AND SIDES OF EXCAVATION AREA SHALL BE SCARIFIED.
 9. PLACEMENT OF FILL SHALL BE DONE BY STOCKPILING AT THE EDGE OF THE EXCAVATION AREA AND PUSHED OR CAST IN PLACE.
 10. FILL SHALL NOT BE PLACED IN THE EXCAVATION AREA DURING RAIN OR SNOW STORM.
 11. IF ANY FILL IS TO BE PLACED BELOW THE WATER TABLE, DEWATERING IS REQUIRED PRIOR TO PLACEMENT.

TO ENSURE THE PERFORMANCE OF THE SYSTEM, MAINTENANCE SHOULD BE PERFORMED ANNUALLY BY A LICENSED SEWAGE PUMPING CONTRACTOR.

GLM ENGINEERING CONSULTANTS, INC. WILL NOT BE RESPONSIBLE FOR THE PERFORMANCE OF THIS SYSTEM UNLESS CONSTRUCTED AND INSPECTED IN ACCORDANCE WITH THIS PLAN. INSPECTIONS TO BE DONE AFTER EXCAVATION FOR SYSTEM AND AFTER CONSTRUCTION, BUT PRIOR TO BACKFILLING. ANY ALTERATION MUST BE APPROVED IN WRITING BY GLM ENGINEERING CONSULTANTS, INC.

5' LIMIT OF EXCAVATION (30' x 91')
 ALL TOPSOIL, SUBSOIL AND ANY DELETERIOUS MATERIAL MUST BE REMOVED FROM THE AREA OF THE SYSTEM AND OTHER DESIGNATED LIMITS AND FILLED WITH APPROVED, CLEAN, GRANULAR SAND. THE FILL SHALL NOT CONTAIN ANY MATERIAL LARGER THAN 2 INCHES AND BE GRADED SO NOT MORE THAN 45% OF THE SAMPLE IS RETAINED IN A #4 SIEVE, OF THAT PASSING, 20% OR LESS SHALL PASS A #100 SIEVE AND 5% OR LESS SHALL PASS THE #200 SIEVE. NOT MORE THAN 90% SHALL BE RETAINED ON THE #50 SIEVE. SAMPLE FOR SIEVE ANALYSIS TO BE TAKEN FROM SAMPLE IN PLACE.

ALL CONSTRUCTION & COMPONENTS SHALL CONFORM TO THE LATEST REQUIREMENTS OF 310 CMR 15.000 TITLE 5 OF THE STATE ENVIRONMENTAL CODE AND THE TOWN OF SUDBURY BOARD OF HEALTH REGULATIONS.

BENCH MARK
 (DATUM = ASSUMED) FRONT HYDRANT BOLT: EL=102.99

PROPOSED SEWAGE DISPOSAL SYSTEM
58 MASSASOIT AVE
SUDBURY, MASSACHUSETTS

APPLICANT:
 UNIVERSAL J&S CONST INC
 15 EDWARDS LANE
 QUINCY, AM 02169

GLM Engineering
 Consultants, Inc.
 19 EXCHANGE STREET
 HOLLISTON, MA 01746
 F: 508-429-1100
 P: 508-429-7160
 www.GLMengineering.com

DATE: MAY 16, 2022
 REVISED: AUGUST 10, 2022
 9/1/2022 REDUCE HSE, CALCS
 10/10/2022 CONCOM COMMENTS

DES: RST SCALE: 1" = 20' JOB #17,240 SHEET #3 of 3

58 MASSASOIT AVE