

BOLTON INLAND WETLANDS COMMISSION
REGULAR MEETING
7:00 P.M., TUESDAY, NOVEMBER 19, 2024
VIRTUAL MEETING VIA ZOOM

Inland Wetlands Commission Members Present Via Zoom: Chair Ross Lally, Vice Chair James Loersch, Member Michael McDonnell, Alternate Member Diane DeNunzio, Member David Lynn

Staff Present Via Zoom: Wetlands Agent Alyssa Barroso

Staff Present Via Zoom: Board Clerk Mary Johnston

Others Present Via Zoom: None

1. Approval of Agenda

R. Lally declared the meeting open at 7:06 p.m.

2. Public Comment

None

3. Approval of Minutes

D. DeNunzio MOVED to approve the October 22, 2024, Minutes. M. McDonnell SECONDED. A. Barroso stated there was a spelling correction under the Wetlands Agent Report. The word “Snarkey” should be spelled “Snarski”. MOTION CARRIED UNANIMOUSLY WITH THE CORRECTION 5:0:0.

4. Old Business

None

5. New Business

None

6. Wetlands Agent Report

A. Barroso gave an update on ongoing projects.

6a. 310 Hop River

A. Barroso reported this permit was approved in June 2020 and was to demolish an existing structure and rebuilt it in a slightly different orientation. The project was never started, and the permit extension is valid for fourteen years. Discussion was held by the Commission on the fourteen-year extension that was granted a few years ago. A. Barroso will continue to monitor this permit. R. Lally pointed out the applicant will need to come back to the Commission if he deviates from the approved permit.

6b. 1079 Boston Turnpike

A. Barroso reported she did a final check on the sub driveway project and was happy to report that F. Davis did a fantastic job with the completion of the project.

R. Lally encouraged the Commission to drive by and look at the completed project.

6c. 180 Bolton Center

A. Barroso reported this project is a single-family residence and that work has been sporadic. A. Barroso spoke to the owner in person on the proposed progress for completion. A. Barroso stated the septic was being dug today and the driveway has been poured. A. Barroso stated she will make sure the soil is stabilized around the septic. A. Barroso was happy to see some progress on this project.

6d. 1048 Brandy

A. Barroso reported this application was in the installation of an inground pool which the Commission had delegated to the Wetlands Agent. A. Barroso reported there were issues with the silt fence and soil placement and the owner has fixed the problems pointed out by the Wetlands Agent.

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6e.

A. Barroso reported she noticed some brush in a wetlands area along with water from a drainage pipe from an unknown source. A. Barroso stated she spoke with the owner who was unaware of the wetlands area and fixed the issues.

6f. 65 Shoddy Mill

A. Barroso reported she visited the site today and shared two photos with the Commission on the progress of the wetland restoration. A. Barroso stated the owner has seeded the slope with winter rye and was pleased with the removal of fill in the wetlands. Discussion was held on the erosion of the winter rye grass during rains and the use of erosion control blankets. A. Barroso explained the seeding plan by the owner after the hard frost. A. Barroso was pleased with the progress of the restoration. R. Lally stated it will be two seasons of growing to see how well it does. A. Barroso stated the owner is monitoring for three seasons.

6g. 271 Hop River Road

R. Lally asked about the status of the connection to the rail trail. R. Lally stated the applicant would need to amend the application for the stream crossing. A. Barroso stated she talked with Planning and Zoning about this proposed connection and felt there was some confusion about how to proceed. After discussion, the Commission would like the applicant to amend the application to include the plans for connection to the rail trail that include stream crossing plans. A. Barroso will talk to the applicant to let them know about the process to proceed with a new plan. R. Lally pointed out that Planning and Zoning should be included.

6h. 1 Notch Road

R. Lally stated this project is for reactivating the gravel pit to do some filling and grading for a storage facility to store equipment. R. Lally stated the owner is not going to complete that work and the lot is for sale. R. Lally asked A. Barroso to make sure what the owner has done there is in a stable condition, so it does not cause issues while sitting there. M. McDonnell asked if the owner would have to finish work so there are no temporary controls in place. R. Lally replied the permit goes with the property and the owners should make sure it is stabilized. R. Lally stated there is a neighboring property owner who has issues with the runoff from this property. A. Barroso stated she will follow up with this permit.

7. Other

7a. Review and Approval of the Proposed FY25-26 Budget

R. Lally presented the proposed FY 25-26 Budget for consideration. After discussion, J. Loersch MOVED to approve the Proposed FY25-26 Budget as the current fiscal budget. D. DeNunzio SECONDED. MOTION CARRIED UNANIMOUSLY 5:0:0.

7b. Update on the CACIWAC Conference

R. Lally, M. McDonnell and A. Barroso attended the CACIWAC Conference recently. They reported the Conference was outstanding and that they were able to bring back lots of useful information for wetlands regulations and enforcement. R. Lally stated he will share a handout that describes the escalation sequence with the Commission. A. Barroso discussed the informative sessions she attended during the conference. M. McDonnell reported he purchased a manual from UConn Clear entitled "*What's Legally Required-A Guide to Legal Rules for Making Local Land Use Decisions in the State of Connecticut.*" M. McDonnell stated this is an exceptionally good manual and is quite easy to understand. M. McDonnell encouraged the Commission to purchase this reference manual. R. Lally stated he will purchase a copy for the Commission. R. Lally stated he learned at the conference to take advantage of the opportunity to assist residents with the removal of invasive species. A. Barroso stated she is working on a brochure that would give a general overview of wetlands which she will share with the Commission at the next meeting. R. Lally stated another informative book to purchase is "*Face of Connecticut,*" which is a history of development in Connecticut.

7c. Review Proposed Updates to Wetlands Regulations

M. McDonnell reported the updates to the Wetlands Regulations is still a work in progress. M. McDonnell stated he needs to add the fees for permitting costs and to incorporate information he gathered from the CACIWAC Conference. M. McDonnell will have more information before Thanksgiving and will present it at the next meeting. The Commission discussed the reduction of support from DEEP.

A. Barroso stated she would like the Commission to discuss and consider the requirement of a marker for delineated markers of wetlands. A. Barroso would also like the Commission to discuss the idea of prohibited areas such as buffers that would effectively protect the wetlands. This would be on a case-by-case basis. R. Lally stated the Commission would

need to avoid the use of the term “buffer” and keep the conversation to ways to mitigate impacts of the development on the property such as leaving certain areas undisturbed. R. Lally felt it is doable but must keep in mind the use of the term “buffer” and keep the conversation focused on what is necessary to mitigate impacts to that site. Discussion was held on protecting wildlife during developments or construction. R. Lally suggested having this language in the regulations and talking with Planning and Zoning.

8. Adjournment: M. McDonnell MOVED to adjourn the meeting at 8:38 p.m. D. DeNunzio SECONDED. MOTION CARRIED UNANIMOUSLY 5:0:0.

Respectfully submitted by Mary J. Johnston

Mary J. Johnston

Please see the Minutes of subsequent meetings for corrections to these Minutes and any corrections hereto.

SURVEY NOTES:

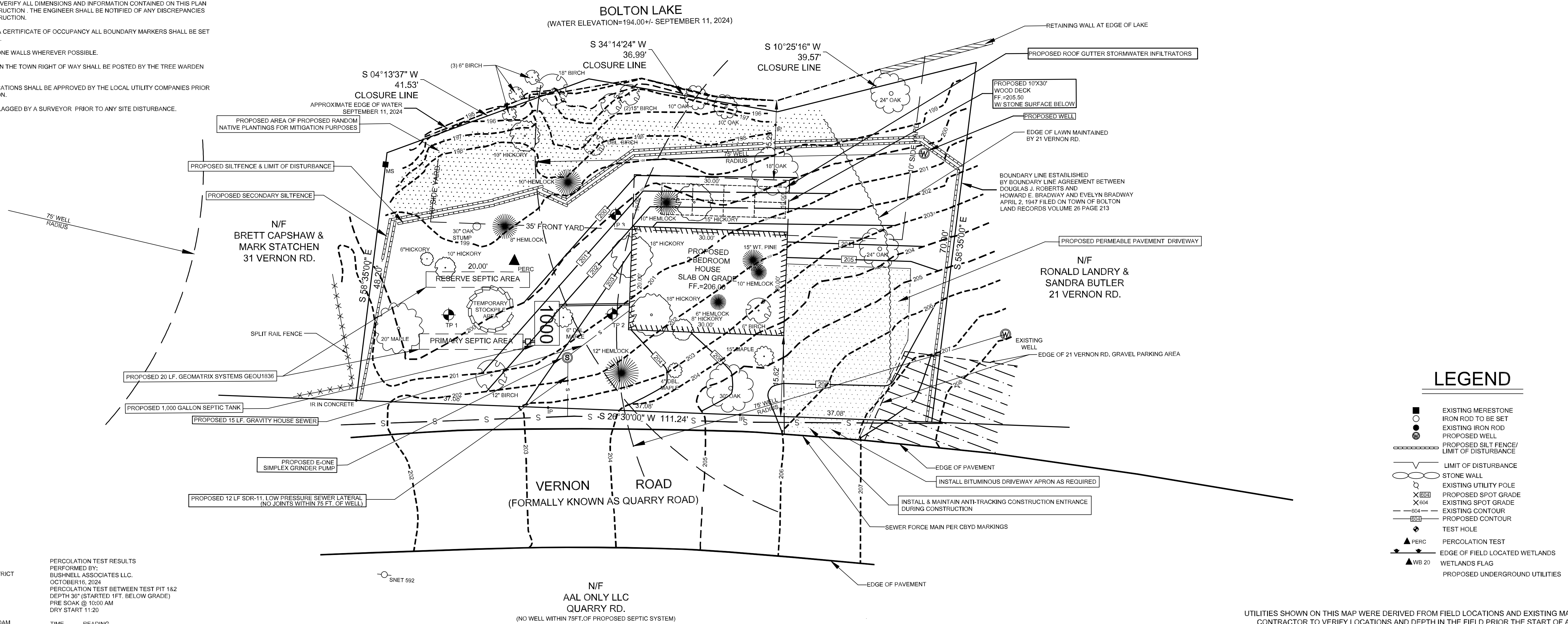
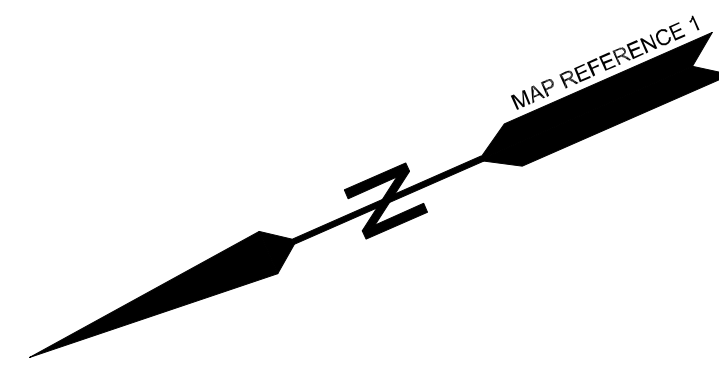
- 1.) THIS SURVEY AND MAP HAS BEEN PREPARED IN ACCORDANCE WITH SECTIONS 20-300b-1 THRU 20-300b-20 OF THE REGULATIONS OF CONNECTICUT STATE AGENCIES "MINIMUM STANDARDS OF ACCURACY, CONTENT AND CERTIFICATION FOR SURVEYS AND MAPS". AS ADOPTED BY THE CONNECTICUT ASSOCIATION OF LAND SURVEYORS INC. ON OCTOBER 28, 2018. IT IS A LIMITED PROPERTY IMPROVEMENT LOCATION SURVEY MAP BASED ON A DEPENDENT RESURVEY CONFORMING TO HORIZONTAL SURVEY ACCURACY CLASS A-2 AND TOPOGRAPHIC ACCURACY CLASS T-2. THE INTENT OF THIS MAP IS TO DEPICT THE LOCATION OF THE PROPOSED OR EXISTING IMPROVEMENTS SHOWN WITH RESPECT TO THE APPLICABLE MUNICIPAL OR STATUTORY REQUIREMENTS.
- 2.) PROPERTY IS LOCATED IN A R-3 ZONE.
- 3.) THE PROPERTY IS NOT LOCATED IN A FLOOD HAZARD ZONE A PER FIRM FLOOD INSURANCE RATE MAP COMMUNITY-PANEL NUMBER 090109 001 B EFFECTIVE JUNE 1, 1981.
- 4.) TOPOGRAPHY DEPICTED WAS FIELD DERIVED BY BUSHNELL ASSOCIATES LLC. USING AN ASSUMED DATUM.
- 5.) THE PROPERTY IS SHOWN AS AN AREA OF STATE AND FEDERAL LISTED SPECIES ON THE CURRENT CONNECTICUT DEPARTMENT OF ENERGY & ENVIRONMENTAL PROTECTION BUREAU OF NATURAL RESOURCES WILDLIFE DIVISION NATURAL DIVERSITY DATA BASE DECEMBER 2024 MAPPING.
- 6.) THE PROPERTY IS SUBJECT AND TOGETHER WITH A BOUNDARY LINE AGREEMENT WITH THE PROPERTY LOCATED AT 21 BOLTON RD. FILED ON TOWN OF BOLTON LAND RECORDS VOLUME 26 PAGE 213.
- 7.) THE PARCEL IS NON-CONFORMING TO CURRENT TOWN OF BOLTON ZONING REQUIREMENTS FOR MINIMUM LOT AREA AND FRONTAGE.

MAP REFERENCES:

- 1.) PROPERTY OF DR. DOUGLAS J. ROBERTS, ETAL QUARRY ROAD BOLTON, CONN. SCALE 1 INCH=10 FEET FEB. 1947 PETERSEN & HOFFMAN, ENGRS. SUCCESSORS TO SPENCER & WASHBURN, INC.

CONSTRUCTION NOTES:

- 1.) OWNER OR CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS.
- 2.) OWNER OR CONTRACTOR TO VERIFY ALL DIMENSIONS AND INFORMATION CONTAINED ON THIS PLAN PRIOR TO THE START OF CONSTRUCTION. THE ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCIES PRIOR TO THE START OF CONSTRUCTION.
- 3.) PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY ALL BOUNDARY MARKERS SHALL BE SET BY A LICENSED LAND SURVEYOR.
- 4.) PRESERVE ANY EXISTING STONE WALLS WHEREVER POSSIBLE.
- 5.) ANY TREES TO BE REMOVED IN THE TOWN RIGHT OF WAY SHALL BE POSTED BY THE TREE WARDEN PRIOR TO REMOVAL.
- 6.) ALL PROPOSED UTILITIES LOCATIONS SHALL BE APPROVED BY THE LOCAL UTILITY COMPANIES PRIOR TO THE START OF CONSTRUCTION.
- 8.) CLEARING LIMITS SHALL BE FLAGGED BY A SURVEYOR PRIOR TO ANY SITE DISTURBANCE.



TEST PITS OBSERVED BY:
THAD KING MPH REHS
EASTERN HIGHLANDS HEALTH DISTRICT
ANDREW BUSHNELL PELS.
BUSHNELL ASSOCIATES LLC.
OCTOBER 16, 2024

TEST PIT 1
0-12" TOPSOIL
12-36" BROWN FINE SANDY LOAM
36-69" GR/BR LOOSE FINE AND GRAVEL TRACE SILT ROCKS
COBBLES SURFACE BOULDERS
DEPTH @ 69"
SEEPAGE - NONE
ROOTS @ 40"

TEST PIT 2
0-12" TOPSOIL
12-49" L/TBR FINE SANDY LOAM
40-69" GR LOOSE FINE AND MEDIUM SANDS AND GRAVEL ROCKS
COBBLES BOULDERS
DEPTH @ 69"
SEEPAGE - NONE
ROOTS @ 40"

TEST PIT 3
0-7" TOP SOIL
7-30" L/TBR FINE SANDY LOAM
30-55" GR LOOSE FINE AND MEDIUM SANDS AND GRAVEL TRACE SILT
RD/GR COMPACT FINE AND MEDIUM SANDS SOME SILT
ROCKS COBBLE BOULDERS
DEPTH @ 80"
LEDGE - NONE
SEEPAGE - NONE
MOTTLING - NONE
ROOTS @ 30"

PERCOLATION TEST RESULTS
PERFORMED BY:
BUSHNELL ASSOCIATES LLC.
OCTOBER 16, 2024
PERCOLATION TEST BETWEEN TEST PIT 1&2
DEPTH 30" (STARTED 1FT. BELOW GRADE)
PRE SOAK @ 10:00 AM
DRY START 11:20

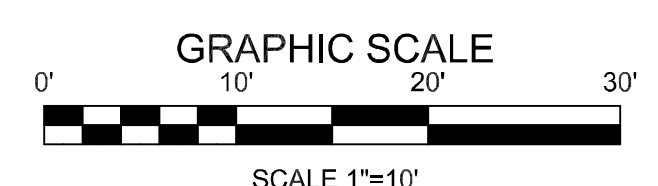
TIME	READING
0	7"
5	7 3/4" 3/4"
10	8 1/2" 3/4"
15	9 1/4" 3/4"
20	10" 3/4"
25	10 3/4" 3/4"
30	11 1/4" 3/4"
35	11 3/4" 3/4"
40	12 1/2" 3/4"
45	12 3/4" 3/4"
50	13 1/2" 3/4"
55	13 3/4" 3/4"
60	14 1/2" 3/4"

PERCOLATION RATE = 1-10

SEPTIC SYSTEM DESIGN CALCULATIONS:
RESTRICTIVE LAYER: NONE
PERCOLATION RATE: 1-10 MIN./IN.
GROUND SLOPE:
2 BEDROOM HOUSE
MLSS: NOT APPLICABLE
EFFECTIVE LEACHING AREA REQUIRED 375 SQ. FT.
PROVIDED: 19.98 FT. ROW OF GEOMATRIX SYSTEMS GeoU1836(18.5" HIGH) LEACHING UNITS @ 21.7 SQ. FT./FT., EFFECTIVE LEACHING AREA = 433.57 SQ.FT. EFFECTIVE LEACHING AREA

LOT AREA ALONG CLOSURE LINE: 6,727 SQ.FT. / 0.15 ACRES
PROPOSED AREA OF DISTURBANCE: 5,049 SQ.FT. / 0.12 ACRES
PROPOSED IMPERVIOUS AREA : PROPOSED HOUSE 600 SQ.FT.
PROPOSED IMPERVIOUS LOT COVERAGE: 8.9% (MAX ALLOWED 20%)
PROPOSED LOT COVERAGE: 22.9% (MAX. ALLOWED 20%)
(HOUSE 600 SQ.F.T., DRIVEWAY 643 SQ.FT., DECK 300 SQ.FT.)

PRELIMINARY PLAN NOT FOR PERMITTING OR CONSTRUCTION PURPOSES



TO MY KNOWLEDGE AND BELIEF, THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON.

ANDREW F. BUSHNELL P.E. L.S. 24591
THIS MAP IS NOT VALID UNLESS IT BEARS THE EMBOSSED SEAL OF THE LICENSED LAND SURVEYOR WHOSE REGISTRATION NUMBER AND SIGNATURE APPEAR ABOVE.

LEGEND

- EXISTING MERESTONE IRON ROD TO BE SET
- EXISTING IRON ROD
- PROPOSED WELL
- PROPOSED SILT FENCE/ LIMIT OF DISTURBANCE
- LIMIT OF DISTURBANCE
- STONE WALL
- EXISTING UTILITY POLE
- PROPOSED SPOT GRADE
- EXISTING SPOT GRADE
- EXISTING CONTOUR
- PROPOSED CONTOUR
- TEST HOLE
- ▲ PERC PERCOLATION TEST
- ▲ EDGE OF FIELD LOCATED WETLANDS
- ▲ Wb 20 WETLANDS FLAG
- PROPOSED UNDERGROUND UTILITIES

UTILITIES SHOWN ON THIS MAP WERE DERIVED FROM FIELD LOCATIONS AND EXISTING MAPPING CONTRACTOR TO VERIFY LOCATIONS AND DEPTH IN THE FIELD PRIOR THE START OF ANY CONSTRUCTION. "CALL BEFORE YOU DIG (1-800-922-4455)."

PLAN PREPARED FOR			
JAMES REED			
VERNON ROAD		BOLTON, CT.	
PRELIMINARY SITE PLAN			
SCALE: 1"=10'	DATE: 12/10/2024	FILE NO. 2024-80	SHEET: 1 OF 3
BUSHNELL ASSOCIATES LLC.			
CIVIL ENGINEERING AND LAND SURVEYING			
563 WOODBRIDGE STREET		MANCHESTER, CT. 06042	
860-643-7875			
REVISIONS:			

- CONSTRUCTION NOTES:**
- OWNER OR CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS.
 - OWNER OR CONTRACTOR TO VERIFY ALL DIMENSIONS AND INFORMATION CONTAINED ON THIS PLAN PRIOR TO THE START OF CONSTRUCTION. THE ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCIES PRIOR TO THE START OF CONSTRUCTION.
 - PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY ALL BOUNDARY MARKERS SHALL BE SET BY A LICENSED LAND SURVEYOR.
 - PRESERVE ANY EXISTING STONE WALLS WHEREVER POSSIBLE.
 - ANY TREES TO BE REMOVED IN THE TOWN RIGHT OF WAY SHALL BE POSTED BY THE TREE WARDEN PRIOR TO REMOVAL.
 - ALL PROPOSED UTILITIES LOCATIONS SHALL BE APPROVED BY THE LOCAL UTILITY COMPANIES PRIOR TO THE START OF CONSTRUCTION.

SEPTIC SYSTEM DESIGN NOTES AND CRITERIA

SEPTIC SYSTEM DESIGN AND INSTALLATION TO COMPLY WITH CONNECTICUT PUBLIC HEALTH CODE REGULATIONS AND TECHNICAL STANDARDS FOR SUBSURFACE SEWAGE DISPOSAL SYSTEMS REVISED JANUARY 1, 2016.

MINIMUM LEACHING SYSTEM SPREAD (MLSS) CALCULATION:

NUMBER OF BEDROOMS: 4
 PERCOLATION RATE: 1-10.0 MIN./INCH
 RESTRICTIVE LAYER: 22" TEST PIT 7
 GROUND SLOPE: > 15%
 MLSS: 26 H.F. X 1.75 F.F. X 1.0 P.F. = 45.5 FT. MINIMUM

REQUIRED: 1250 GALLON TWO-COMPARTMENT SEPTIC TANK AND 577.5 SQ. FT. OF EFFECTIVE LEACHING AREA.

PROVIDED: 1,250 GALLON TWO-COMPARTMENT CONCRETE SEPTIC TANK WITH APPROVED EFFLUENT FILTER, NO GARBAGE DISPOSAL, WATER SOFTENING SYSTEM OR OVERSIZED TUB TO BE INSTALLED IN THE HOUSE. (ACCESS RISERS REQUIRED TO LESS THAN 12" FROM FINAL GRADE). 195 LINEAL FEET OF 4FT. WIDE STONE TRENCHES (EFFECTIVE LEACHING CREDIT 3 SQ. FT./FT) WITH AN EFFECTIVE LEACHING AREA OF 585 SQ.FT. MINIMUM SPACING OF 8FT. ON CENTER. WITH HOUSE SEWER PIPE OF 4" DIA. SCHEDULE -40 ASTM D-1785 / ASTM D-2665.

TRENCH BOTTOMS TO BE NO MORE THAN 4" BELOW ORIGINAL GRADE.

THE SEPTIC SYSTEM AREA SHALL NOT BE DISTURBED PRIOR TO STAKEOUT OF THE SYSTEM BY THE DESIGN ENGINEER.

THE DESIGN ENGINEER SHALL STAKE OUT THE SEPTIC SYSTEM, SET A LOCAL BENCHMARK AND SUPPLY THE EASTERN HIGHLANDS HEALTH DISTRICT WITH A STAKING VERIFICATION MEMO BEFORE A PERMIT TO INSTALL THE SYSTEM WILL BE ISSUED.

SELECT FILL PLACED WITHIN AND ADJACENT TO LEACHING SYSTEM AREAS SHALL BE COMPRISED OF CLEAN SAND, OR SAND AND GRAVEL, FREE FROM ORGANIC MATTER AND FOREIGN SUBSTANCES. THE SELECT FILL SHALL MEET THE FOLLOWING REQUIREMENTS UNLESS OTHERWISE APPROVED BY THE DESIGN ENGINEER. SELECT FILL EXCEEDING 6% PASSING THE #200 SIEVE BASED ON A WET SIEVE TEST CANNOT BE APPROVED BY THE DESIGN ENGINEER.

- THE SELECT FILL SHALL NOT CONTAIN ANY MATERIAL LARGER THAN THE THREE (3) INCH SIEVE.
- UP TO 45% OF THE DRY WEIGHT OF THE REPRESENTATIVE SAMPLE MAY BE RETAINED ON THE #4 SIEVE
- THE MATERIAL THAT PASSES THE #4 SIEVE IS THEN REWEIGHED AND THE SIEVE ANALYSIS STARTED.
- THE REMAINING SAMPLE SHALL MEET THE FOLLOWING GRADATION CRITERIA.

SIEVE SIZE	PERCENT PASSING	
	WET SIEVE	DRY SIEVE
#4	100	100
#10	70 - 100	70 - 100
#40	10 - 50*	10-75
#100	0 - 20	0 - 5
#200	0 - 5	0 - 2.5

* PERCENT PASSING THE #40 SIEVE CAN BE INCREASED TO NO GREATER THAN 75% IF THE PERCENT PASSING THE #100 SIEVE DOES NOT EXCEED 10% AND THE # 200 SIEVE DOES NOT EXCEED 5%

SELECT FILL THAT DOES NOT MEET THE DRY SIEVE GRADATION CRITERIA BUT MEETS THE WET SIEVE CRITERIA IS ACCEPTABLE.

THE LICENSED INSTALLER IS RESPONSIBLE FOR PREPARING THE LEACHING AREA WITH REQUIRED SELECT FILL. THE TOPSOIL IN THE LEACHING AREA MUST BE COMPLETELY REMOVED AND THE SUBSOIL SCARIFIED PRIOR TO SELECT FILL PLACEMENT. THE INSTALLER SHALL TAKE NECESSARY STEPS TO PROTECT THE UNDERLYING NATURALLY OCCURRING SOIL FROM OVERCOMPACTION, SILTATION OR OTHER DAMAGE. THE INSTALLER IS RESPONSIBLE FOR PROPERLY COMPACTING THE SELECT FILL TO FACILITATE CONSTRUCTION AND TO PREVENT SETTLING. SELECT FILL SHALL EXTEND A MINIMUM OF FIVE (5) FEET Laterally IN ALL DIRECTIONS BEYOND THE OUTER PERIMETER OF THE LEACHING AREA.

EROSION CONTROL CONSTRUCTION SEQUENCE PLAN HOUSE LOT DEVELOPMENT

NOTE: ALL EROSION AND SEDIMENT CONTROL ACTIVITIES SHALL CONFORM TO THE METHODS OUTLINED IN THE CONNECTICUT GUIDELINES FOR EROSION AND SEDIMENT CONTROL MANUAL.

- COORDINATE MARKING OF LIMITS OF DISTURBANCE BY A LICENSED LAND SURVEYOR. SUPPLY TOWN EROSION CONTROL OFFICER WITH A LETTER FROM THE SURVEYOR CERTIFYING THE LIMITS OF DISTURBANCE WERE MARKED IN ACCORDANCE WITH THE APPROVED PLAN.
- CLEAR TREES AS REQUIRED.
- PRIOR TO SOIL DISTURBANCE INSTALL EROSION CONTROL MEASURES, SILT FENCE AND ANTI-TRACKING PAD (SEE PLAN DETAILS AND LOCATIONS). ADDITIONAL MEASURES MAY BE REQUIRED AS SITE CONDITIONS REQUIRE. COORDINATE AN INSPECTION OF INSTALLED MEASURES WITH THE EROSION CONTROL OFFICER. SUPPLY THE TOWN EROSION CONTROL OFFICER WITH THE NAME AND PHONE NUMBER OF A CONTACT PERSON RESPONSIBLE FOR THE EROSION CONTROL MEASURES.
- PERIODICALLY AND AFTER LARGE RAIN EVENTS INSPECT EROSION CONTROL MEASURES AND REPAIR AS NECESSARY.
- GRUB AND STRIP TOPSOIL. STOCKPILE TOPSOIL IN AREAS INDICATED ON THE APPROVED PLAN.
- CONSTRUCT AND STABILIZE DRIVEWAY.
- CONSTRUCT HOUSE, WELL, DRIVEWAY, SEPTIC SYSTEM AND OTHER IMPROVEMENTS AS SHOWN.
- SPREAD STOCKPILED TOPSOIL. MACHINE RAKE, FERTILIZE, SEED AND MULCH DISTURBED AREAS. USE GRASS SEED THAT IS ACCEPTABLE FOR THE SITE CONDITIONS (I.E. SUN OR SHADE) AND THE SEASON OF THE YEAR IN WHICH THIS ACTIVITY IS COMPLETED. PROVIDE TEMPORARY STABILIZATION OF THE SITE (I.E. STRAW OR HAY ETC.) IF THE TOPSOIL IS SPREAD DURING A TIME OF YEAR WHEN GRASS SEED WILL NOT GERMINATE. PROVIDE PERMANENT STABILIZATION WHEN WEATHER CONDITIONS ALLOW.
- REMOVE EROSION CONTROL MEASURES AFTER THE SITE HAS BECOME FULLY ESTABLISHED.
- ANY EXISTING DISTURBED AREAS MUST BE SEEDED WITH PERMANENT OR TEMPORARY GROUND COVER AND MULCHED BY OCTOBER 15.
- DEWATERING OPERATIONS, IF REQUIRED, SHALL UTILIZE A CRUSHED STONE INTAKE SUMP AND A TEMPORARY OUTLET SILT POOL LOCATED WITHIN THE LIMITS OF DISTURBANCE.

SITE SEEDING NOTES:

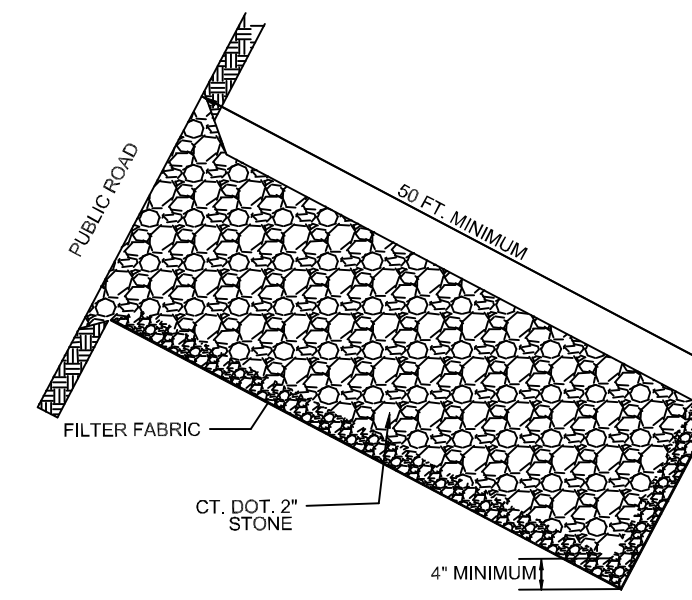
PREPARATION: FINE GRADE AND RAKE SOIL SURFACE TO REMOVE STONES LARGER THAN 2" IN DIAMETER. INSTALL SEEDED EROSION CONTROL DEVICES SUCH AS SURFACE WATER DIVERSIONS AS REQUIRED. APPLY LIMESTONE AT A RATE OF 2 TONS/AC. OR 90 LBS./1000 SQ.FT. FERTILIZE WITH 10-10-10 AT A RATE OF 300 LBS./AC. OR 7.5 LBS. PER 1000 SQ.FT. WORK LIME AND FERTILIZER INTO SOIL UNIFORMLY TO A DEPTH OF 4".

SEED APPLICATION: APPLY SEED MIXTURE FROM THE CHART BELOW BY HAND, CYCLONE SEEDER OR HYDRO SEEDER. INCREASE SEED MIXTURE BY 10% IF HYDRO SEEDER IS USED. LIGHTLY DRAG OR ROLL THE SEEDED SURFACE TO COVER SEED. SEEDING SHOULD BE DONE BETWEEN THE TIMES SHOWN ON THE CHART BELOW. IF SEEDING CANNOT BE DONE DURING THESE TIMES, REPEAT MULCHING PROCEDURE BELOW UNTIL SEEDING CAN TAKE PLACE.

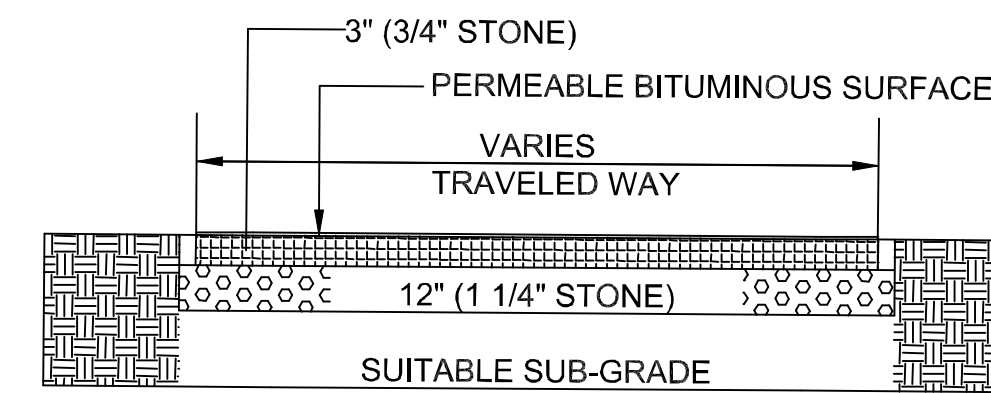
MULCHING: IMMEDIATELY FOLLOWING SEEDING, MULCH THE SEED SURFACE WITH STRAW OR HAY AT A RATE OF 2 TO 3 TONS/AC. SPREAD MULCH BY HAND OR MULCH BLOWER. PUNCH MULCH INTO SOIL SURFACE WITH A TRACK MACHINE OR DISK HARROW SET STRAIGHT UP. IF USING HYDRO SEED MIX. USE TACTIFIER ADDITIVES TO ADHERE MULCH MATERIAL TO THE SURFACE.

SEED SELECTION:	USE	LB/1000 SQ. FT.	SEED MIXTURE	RECOMMENDED SEEDING DATES
PERMANENT LAWN	0.45		KENTUCKY BLUEGRASS	4/1-6/15
	0.45		CREeping RED FESCUE	8/15-10/1
	0.10		PERENNIAL RYEGRASS	
SLOPES & COARSE LAWN	0.45		CREeping RED FESCUE	4/1-6/15
	0.05		RED TOP	8/15-10/1
	0.45		TALL FESCUE	
SLOPES (NO MOWING)	1.8		CREeping RED FESCUE	4/1-6/15
	0.2		RED TOP	8/15-10/1
TEMPORARY COVER	3.0		WINTER RYE	4/15-6/15, 8/15-10/15
	1.0		ANNUAL RYEGRASS	3/1-6/15, 8/1-10/15

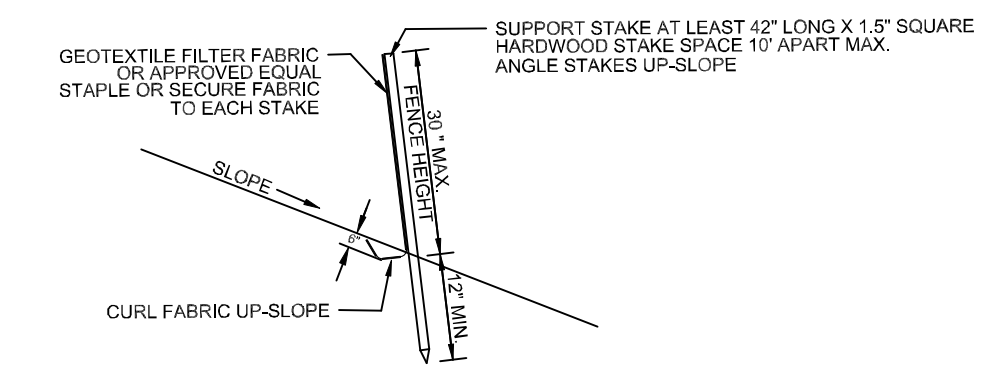
IF SEED IS PLANTED OUTSIDE THE RECOMMENDED SEEDING DATES IRRIGATION MAYBE REQUIRED AT A UNIFORM APPLICATION RATE OF 1 TO 2 INCHES OF WATER APPLIED PER APPLICATION, SOAKING THE GROUND TO A DEPTH OF 4 INCHES.



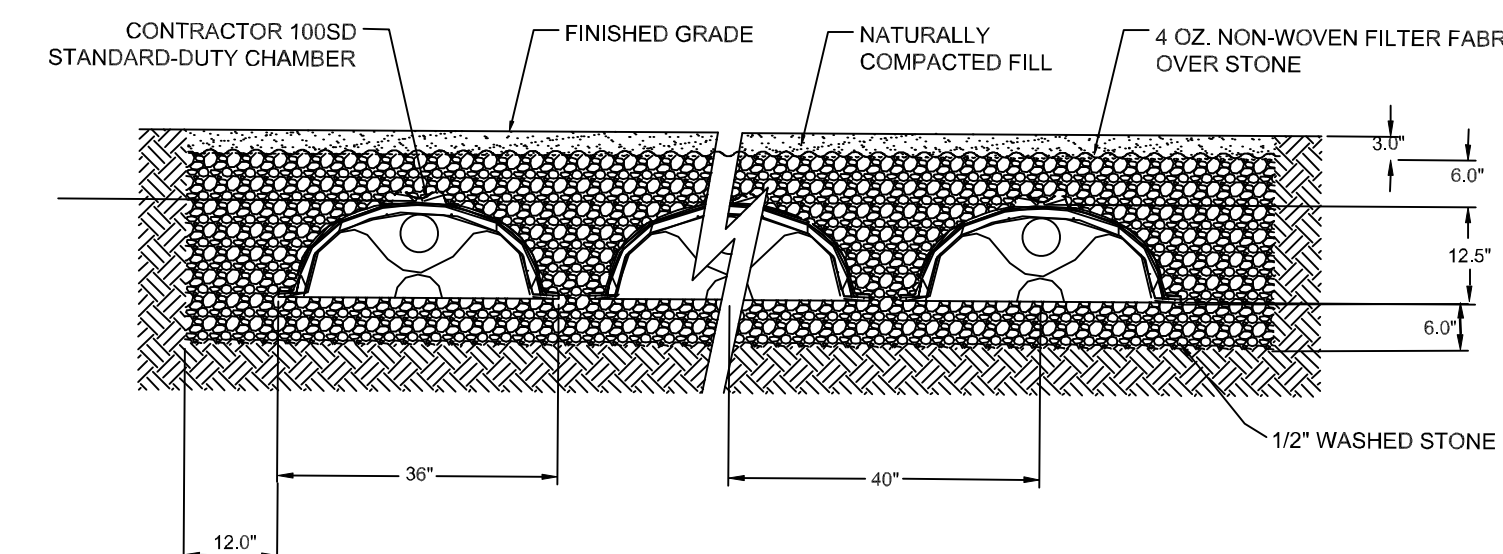
ANTI-TRACKING CONSTRUCTION ENTRANCE
NOT TO SCALE



PERMEABLE PAVEMENT DRIVEWAY DETAIL
NOT TO SCALE



SILT FENCE DETAIL
NOT TO SCALE

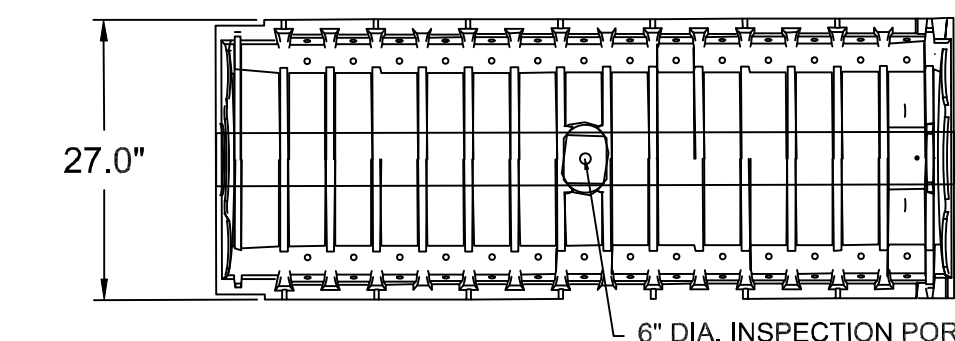
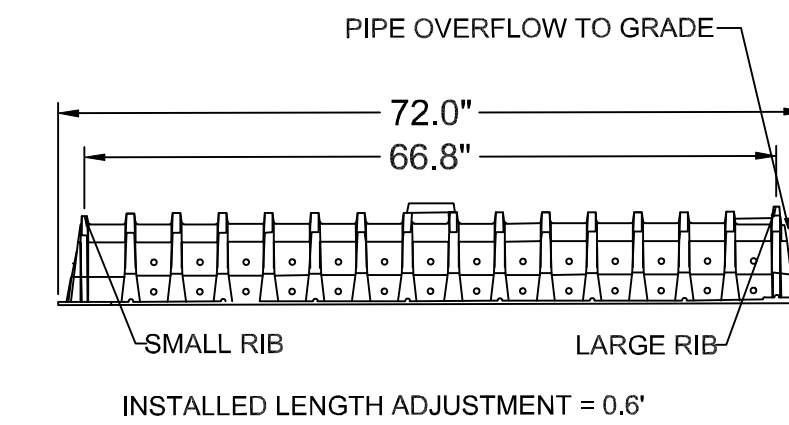


GENERAL NOTES

CONTRACTOR 100SD BY CULTEC, INC. OF BROOKFIELD, CT. STORAGE PROVIDED = 3.90 CF/FT (215 GALLONS) PER DESIGN UNIT. REFER TO CULTEC, INC.'S CURRENT RECOMMENDED INSTALLATION GUIDELINES. USE CONTRACTOR 100HD HEAVY DUTY FOR TRAFFIC AND/OR H2O APPLICATIONS.

ALL CONTRACTOR 100 CHAMBERS MUST BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS.

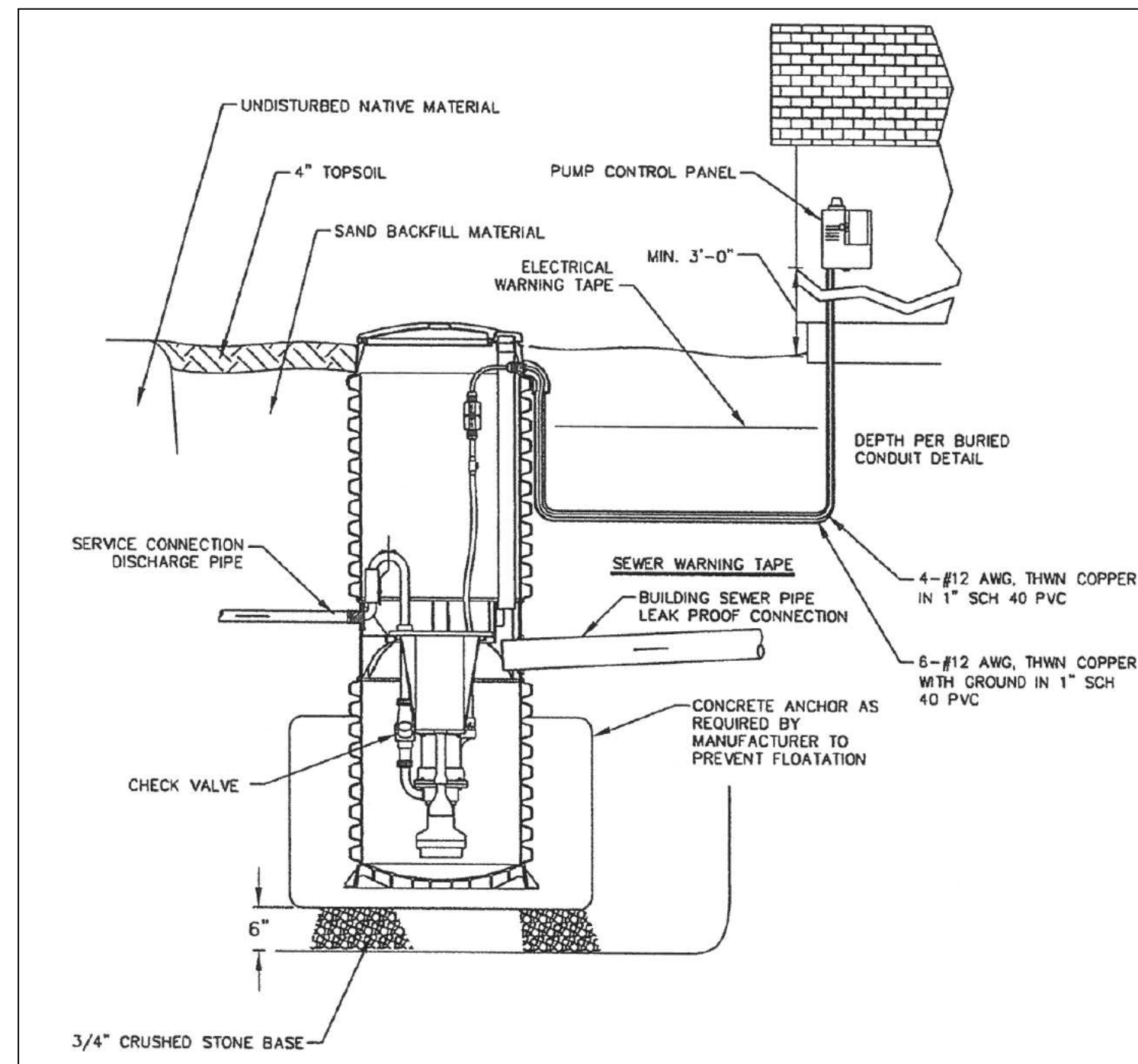
TEST PIT VERIFICATION DATA OF SUITABILITY OF SOILS FOR THE INFILTRATION CHAMBERS TO BE SUBMITTED PRIOR TO THE START OF CONSTRUCTION



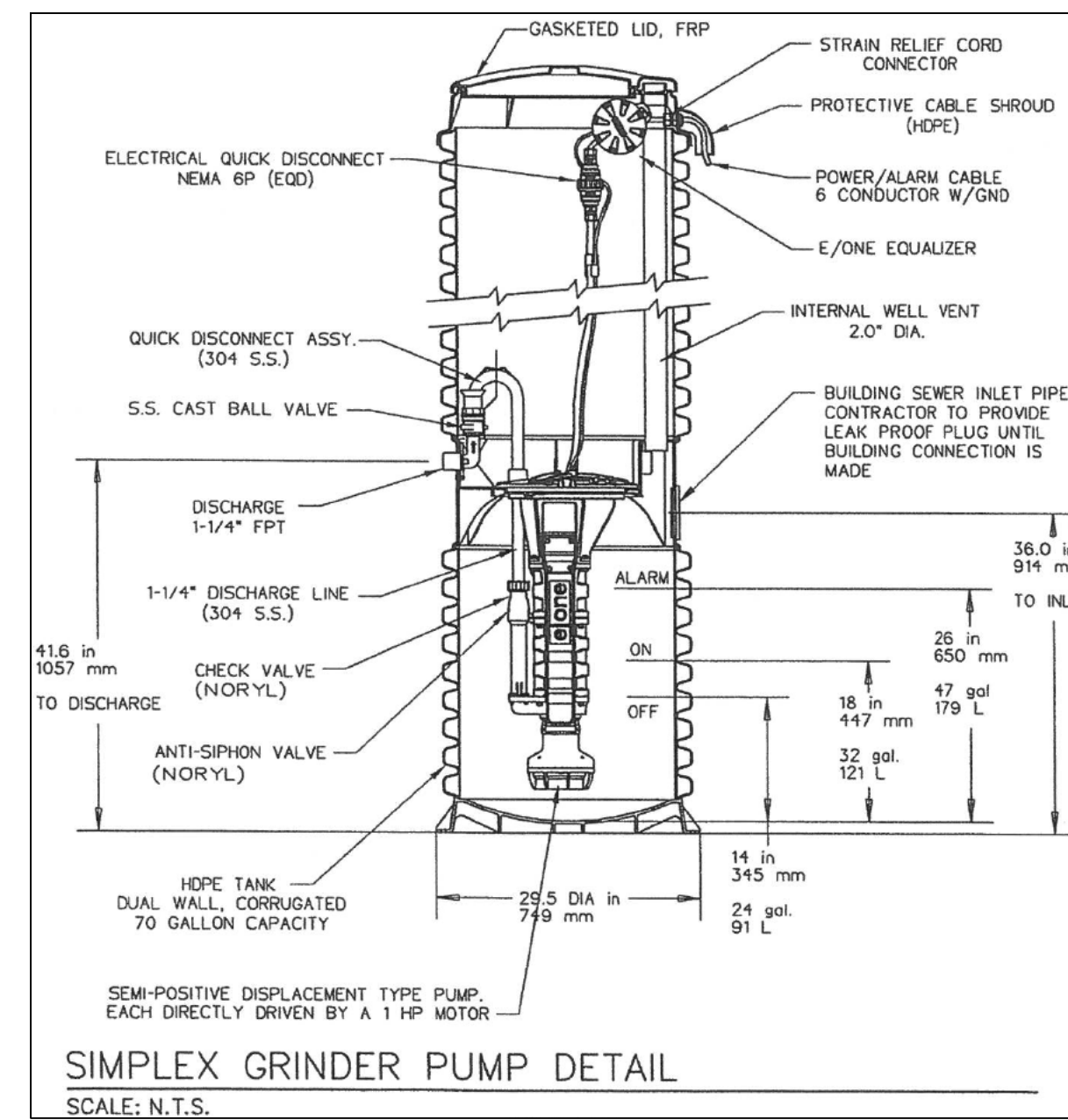
TYPICAL ROOF STORMWATER INFILTRATION UNIT DETAILS
CULTEC CONTRACTOR 100 OR EQUAL
NOT TO SCALE

PRELIMINARY PLAN NOT FOR PERMITTING OR CONSTRUCTION PURPOSES

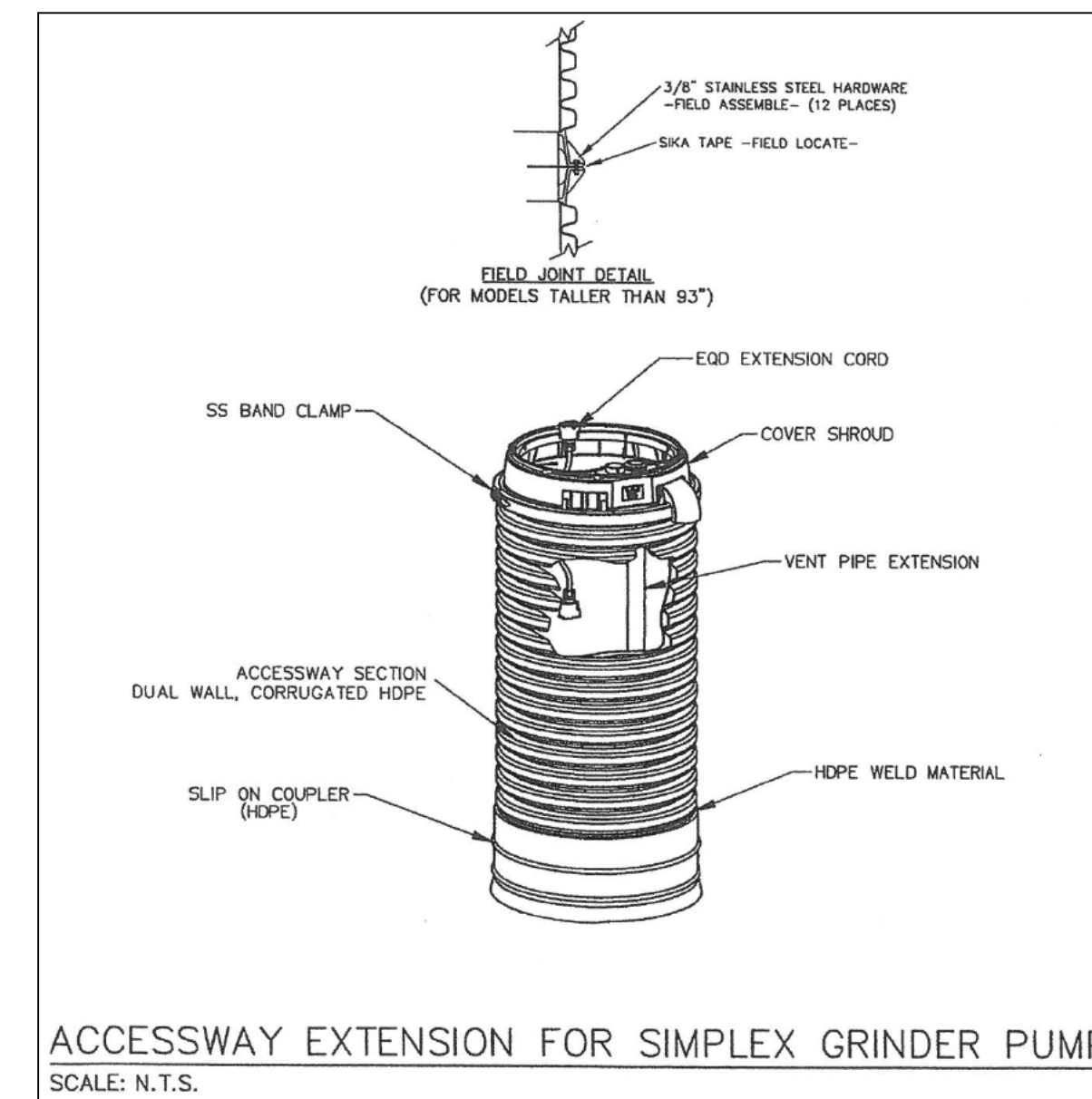
PLAN PREPARED FOR			
JAMES REED			
VERNON ROAD		BOLTON, CT.	
CONSTRUCTION / E&S/ SEPTIC DETAILS			
SCALE: NONE	DATE: 12/10/2024	FILE NO. 2024-80	SHEET: 2 OF 3
BUSHNELL ASSOCIATES LLC.			
CIVIL ENGINEERING AND LAND SURVEYING			
563 WOODBRIDGE STREET		MANCHESTER, CT. 06042	
860-643-7875			
REVISIONS:			



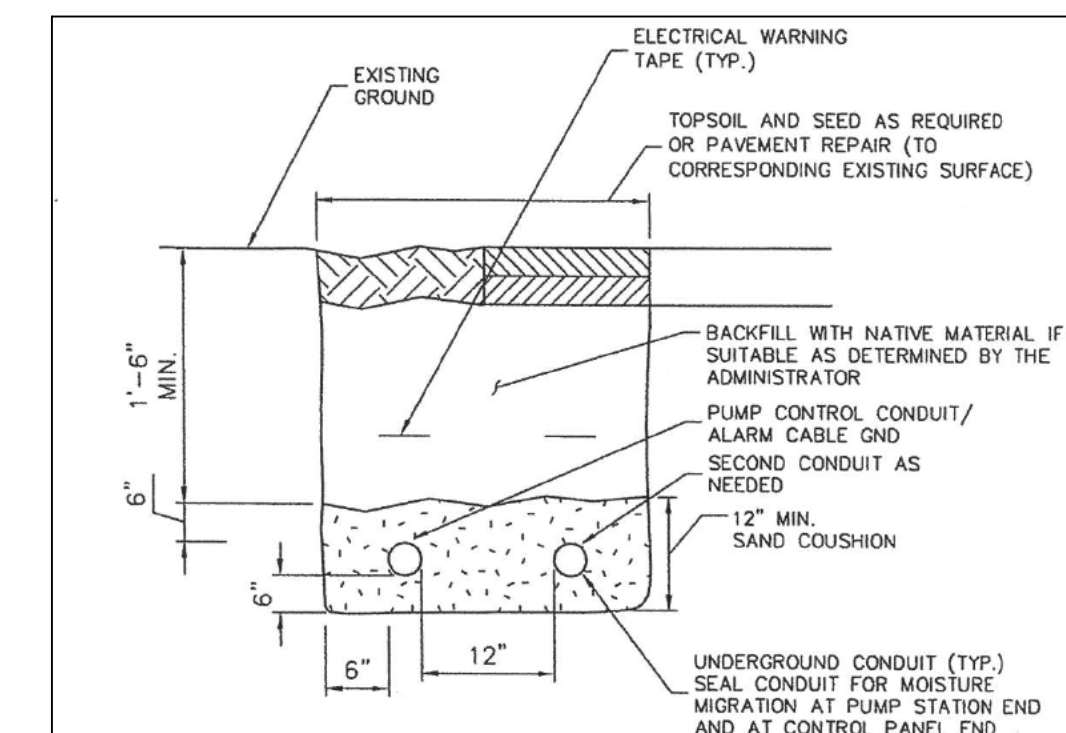
GRINDER PUMP CONNECTION DETAIL
NOT TO SCALE



SIMPLEX GRINDER PUMP DETAIL
SCALE: N.T.S.

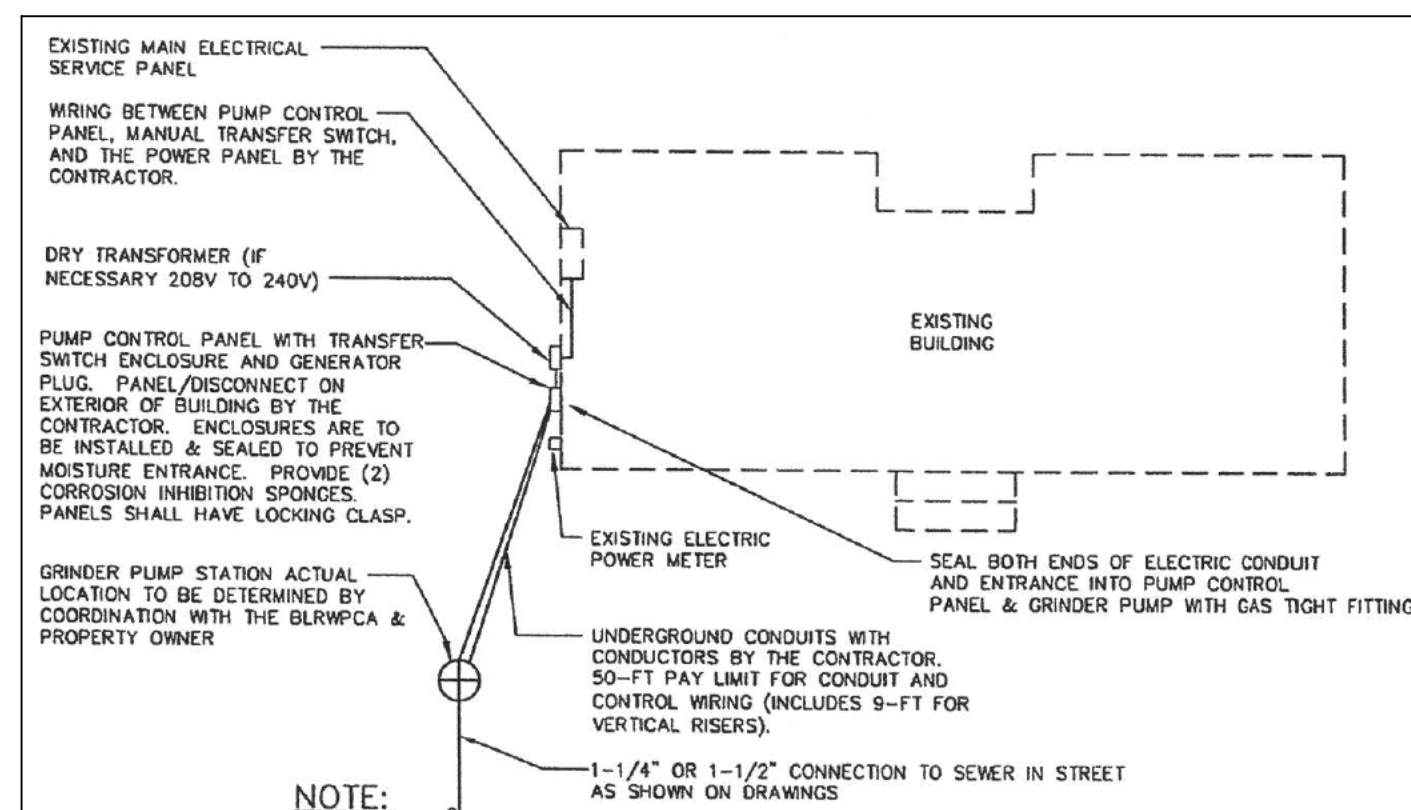


ACCESSWAY EXTENSION FOR SIMPLEX GRINDER PUMP
SCALE: N.T.S.



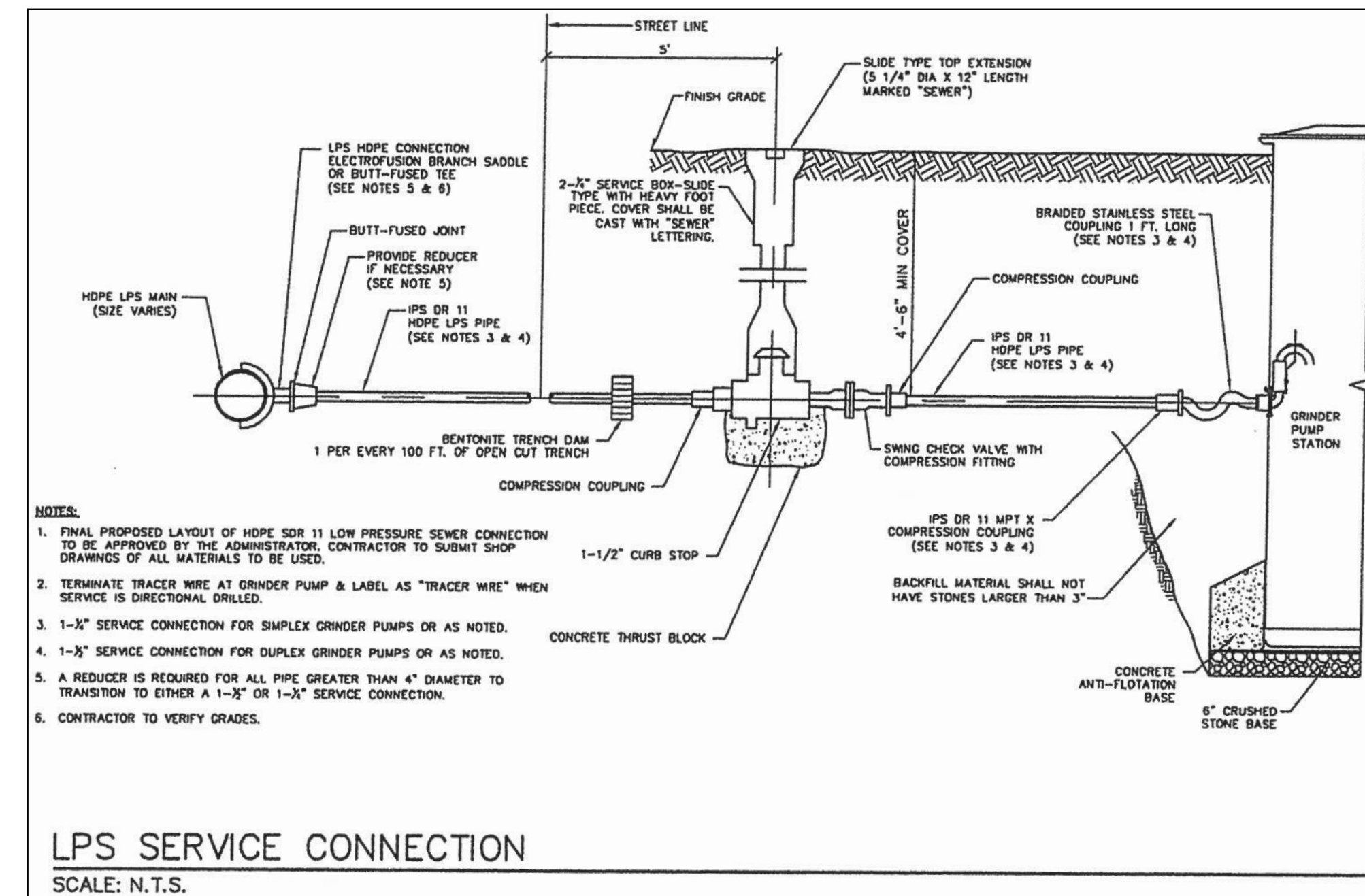
UNDERGROUND CONDUIT TRENCH NOTES:
INSTALL ELECTRICAL MARKING TAPE ABOVE THE ELECTRIC CONDUIT AND BURIED ELECTRIC WIRING.

UNDERGROUND CONDUIT TRENCH DETAIL
SCALE: N.T.S.

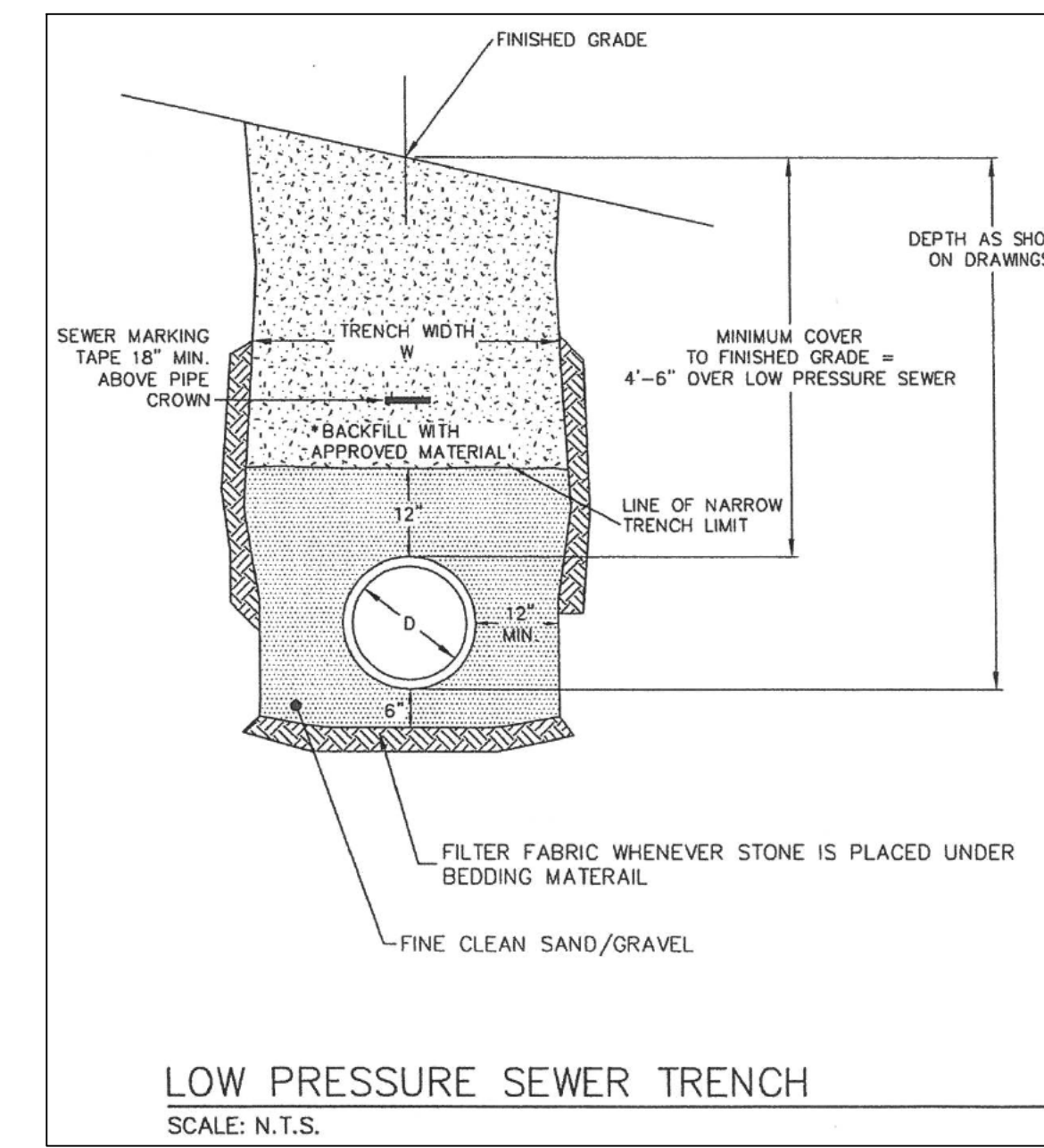


TYPICAL GRINDER PUMP STATION LAYOUT
SCALE: N.T.S.

FIGURE 33
JULY 2012



LPS SERVICE CONNECTION
SCALE: N.T.S.



LOW PRESSURE SEWER TRENCH
SCALE: N.T.S.

PRELIMINARY PLAN NOT FOR PERMITTING OR CONSTRUCTION PURPOSES

PLAN PREPARED FOR			
JAMES REED			
VERNON ROAD		BOLTON, CT.	
CONSTRUCTION / E&S/ SEPTIC DETAILS			
SCALE: NONE	DATE: 12/10/2024	FILE NO. 2024-80	SHEET: 3 OF 3
BUSHNELL ASSOCIATES LLC. CIVIL ENGINEERING AND LAND SURVEYING 563 WOODBRIDGE STREET MANCHESTER, CT. 06042 860-643-7875			
REVISIONS:			