

PROPOSED RESIDENTIAL BUILDING

LONGMARSH ROAD DURHAM, NEW HAMPSHIRE PERMIT APPLICATION PLANS

OWNER/APPLICANT:

SEJ PROPERTIES LLC
4 ROCKY LANE
DURHAM, NH 03824
TEL. (603) 315-4521

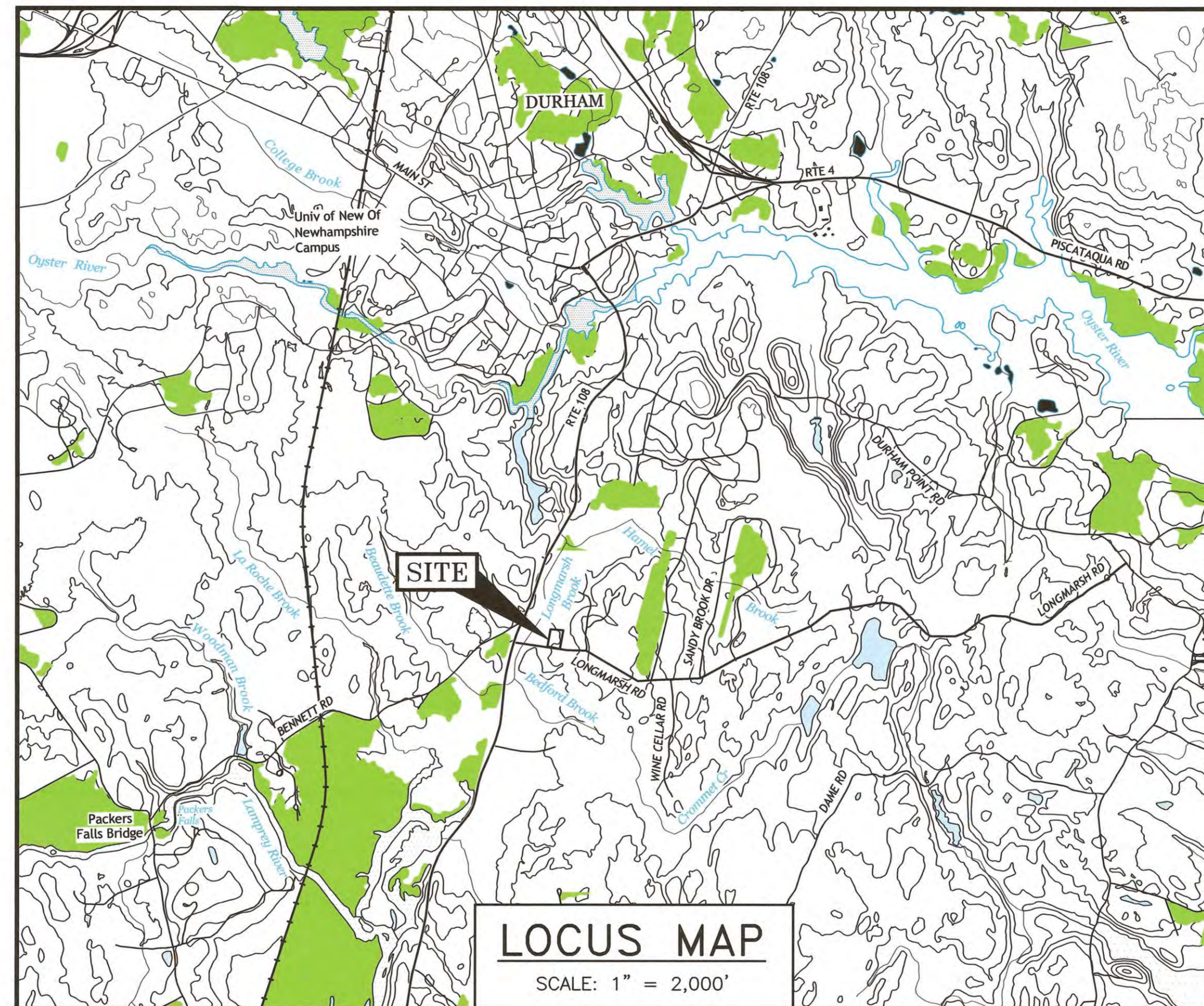
CIVIL ENGINEER/LAND SURVEYOR:

AMBIT ENGINEERING, INC.
DIVISION OF HALEY WARD
200 GRIFFIN ROAD, UNIT 3
PORTSMOUTH, N.H. 03801
TEL. (603) 430-9282
FAX (603) 436-2315

ARCHITECT:

ARTFORM HOME PLANS
44 LAFAYETTE ROAD (RTE 1)
P.O. BOX 535
NORTH HAMPTON, N.H. 03862
TEL. (603) 431-9559

PERMIT LIST:
NHDES SEPTIC: PENDING
NHDES WETLANDS: PENDING
DURHAM CUP: PENDING



LEGEND:

| EXISTING | PROPOSED | |
|----------|----------|------------------------------|
| --- | --- | PROPERTY LINE |
| --- | --- | SETBACK |
| S | S | SEWER PIPE |
| SL | SL | SEWER LATERAL |
| G | G | GAS LINE |
| D | D | STORM DRAIN |
| W | W | WATER LINE |
| WS | WS | WATER SERVICE |
| UGE | UGE | UNDERGROUND ELECTRIC |
| OHW | OHW | OVERHEAD ELECTRIC/WIRES |
| --- | --- | FOUNDATION DRAIN |
| --- | --- | EDGE OF PAVEMENT (EP) |
| 100 | 100 | CONTOUR |
| 97x3 | 98x0 | SPOT ELEVATION |
| ○ | ○ | UTILITY POLE |
| ☼ | ☼ | WALL MOUNTED EXTERIOR LIGHTS |
| ☼ | ☼ | TRANSFORMER ON CONCRETE PAD |
| ☼ | ☼ | ELECTRIC HANDHOLD |
| ☼ | ☼ | SHUT OFFS (WATER/GAS) |
| ☼ | ☼ | GATE VALVE |
| ☼ | ☼ | HYDRANT |
| ☼ | ☼ | CATCH BASIN |
| ☼ | ☼ | SEWER MANHOLE |
| ☼ | ☼ | DRAIN MANHOLE |
| ☼ | ☼ | TELEPHONE MANHOLE |
| ☼ | ☼ | PARKING SPACE COUNT |
| ☼ | ☼ | PARKING METER |
| ☼ | ☼ | LANDSCAPED AREA |
| TBD | TBD | TO BE DETERMINED |
| CI | CI | CAST IRON PIPE |
| COP | COP | COPPER PIPE |
| DI | DI | DUCTILE IRON PIPE |
| PVC | PVC | POLYVINYL CHLORIDE PIPE |
| RCP | RCP | REINFORCED CONCRETE PIPE |
| AC | - | ASBESTOS CEMENT PIPE |
| VC | VC | VITRIFIED CLAY PIPE |
| EP | EP | EDGE OF PAVEMENT |
| EL | EL | ELEVATION |
| FF | FF | FINISHED FLOOR |
| INV | INV | INVERT |
| S = | S = | SLOPE FT/FT |
| TBM | TBM | TEMPORARY BENCH MARK |
| TYP | TYP | TYPICAL |



UTILITY CONTACTS

ELECTRIC:
EVERSOURCE
1700 LAFAYETTE ROAD
PORTSMOUTH, N.H. 03801
Tel. (603) 436-7708, Ext. 555.5678
ATTN: MICHAEL BUSBY, P.E. (MANAGER)

CABLE:
COMCAST
155 COMMERCE WAY
PORTSMOUTH, N.H. 03801
TEL. (603) 679-5695
(X1037)
ATTN: MIKE COLLINS

COMMUNICATIONS:
FAIRPOINT COMMUNICATIONS
JOE CONSIDINE
1575 GREENLAND ROAD
GREENLAND, N.H. 03840
TEL. (603) 427-5525

INDEX OF SHEETS

| DWG NO. | |
|---------|--------------------------|
| C1 | EXISTING CONDITIONS PLAN |
| C2 | PERMIT PLAN |
| - | SEPTIC SYSTEM PLAN |
| C3 | DRIVEWAY PLAN & PROFILE |
| D1 | DETAILS |

APPROVED BY THE DURHAM PLANNING BOARD

CHAIRMAN _____ DATE _____

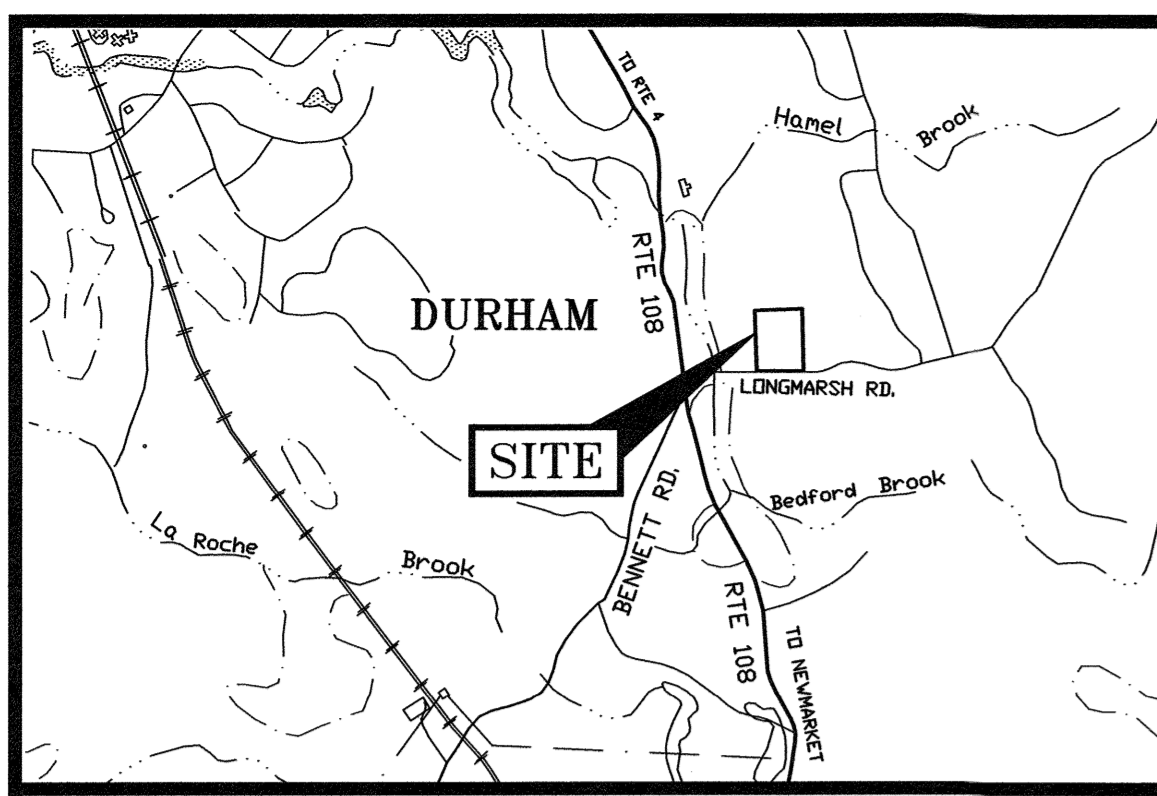
PERMIT APPLICATION PLANS
PROPOSED RESIDENTIAL BUILDING
LONGMARSH ROAD
DURHAM, N.H.

AMBIT ENGINEERING, INC.
A DIVISION OF HALEY WARD, INC.

200 Griffin Road, Unit 3
Portsmouth, NH 03801
603.430.9282

WWW.HALEYWARD.COM

PLAN SET SUBMITTAL DATE: 11 APRIL 2023



PLAN REFERENCES:
 1) "SUBDIVISION OF LAND FOR KELLY L. CULLEN- LONGMARSH ROAD DURHAM, N.H." PREPARED BY ATLANTIC SURVEY CO. LLC DATED JANUARY 2013. S.C.R.D. PLAN NO. 106-026.
 2) "LIMITED SUBDIVISION FOR SUSAN E. BUNKER-27 LONGMARSH ROAD DURHAM, N.H." PREPARED BY THE NLS GROUP DATED AUGUST 31, 1993. S.C.R.D. PLAN NO 43-93

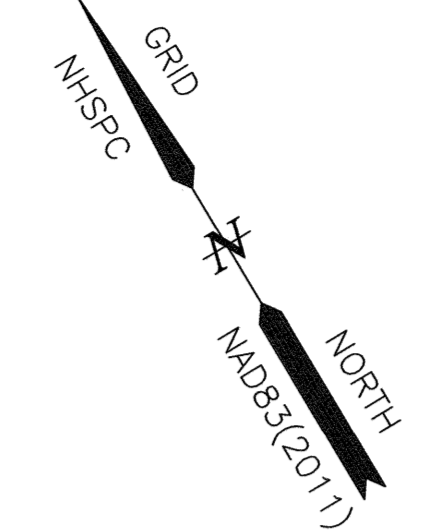
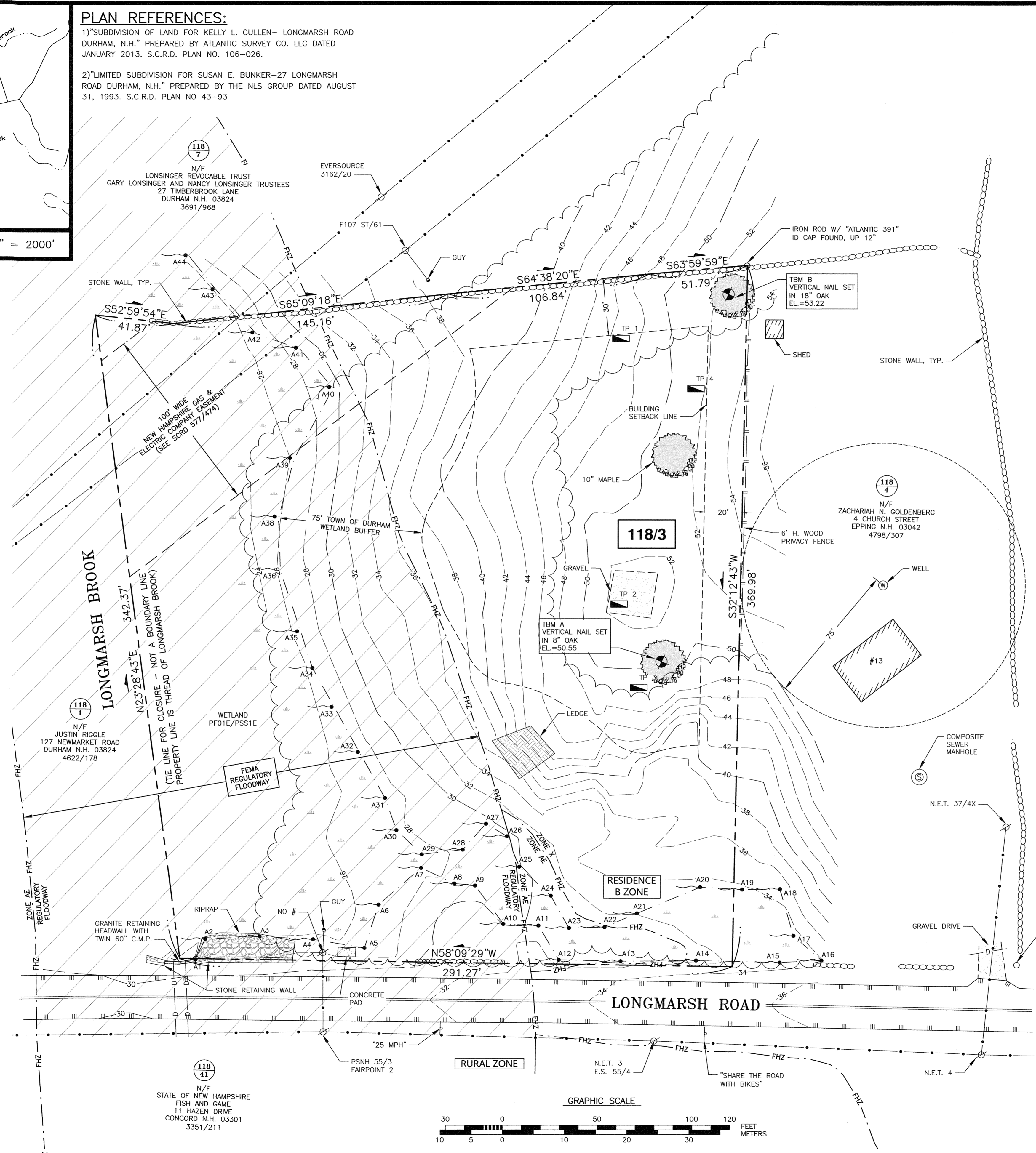
LOCATION MAP SCALE: 1" = 2000'

LEGEND:

- | | |
|----------|--------------------------|
| N/F | NOW OR FORMERLY |
| RP | RECORD OF PROBATE |
| SCRD | STRAFFORD COUNTY |
| | REGISTRY OF DEEDS |
| RR SPK | RAILROAD SPIKE |
| 11/21 | MAP 11/LOT 21 |
| ○ IR FND | IRON ROD FOUND |
| ○ IP FND | IRON PIPE FOUND |
| ● IR SET | IRON ROD SET |
| ● DH FND | DRILL HOLE FOUND |
| ● DH SET | DRILL HOLE SET |
| --- | BOUNDARY LINE |
| --- | EDGE OF WETLAND |
| --- | 100' TIDAL BUFFER ZONE |
| --- | 250' PROTECTED SHORELAND |
| --- | OVERHEAD ELECTRIC/WIRES |
| --- | CONTOUR |
| --- | EDGE OF PAVEMENT (EP) |
| --- | TEMPORARY BENCHMARK |
| TYP. | TYPICAL |
| --- | WOODS / TREE LINE |
| --- | FLOOD HAZARD LINE |

WETLAND NOTES:

- HIGHEST OBSERVABLE TIDE LINE & WETLAND LINES DELINEATED BY STEVEN D. RIKER, CWS ON 8/5/22 IN ACCORDANCE WITH THE FOLLOWING STANDARDS:
 - U.S. ARMY CORPS OF ENGINEERS WETLANDS DELINEATION MANUAL, TECHNICAL REPORT Y-87-1 (JAN. 1987), AND REGIONAL SUPPLEMENT TO THE CORPS OF ENGINEERS WETLAND DELINEATION MANUAL: NORTHCENTRAL AND NORTHEAST REGION, VERSION 2.0, JANUARY 2012.
 - FIELD INDICATORS OF HYDRIC SOILS IN THE UNITED STATES, VERSION 8.2, USDA-NRCS, 2018 AND (FOR DISTURBED SITES) FIELD INDICATORS FOR IDENTIFYING HYDRIC SOILS IN NEW ENGLAND, VERSION 4. NEIWPCC WETLANDS WORK GROUP (2019).
 - NATIONAL LIST OF PLANT SPECIES THAT OCCUR IN WETLANDS: NORTHEAST (REGION 1). USFW (MAY 1988).
 - CLASSIFICATION OF WETLANDS AND DEEPWATER HABITATS OF THE UNITED STATES. USFW MANUAL FWS/OBS-79/31 (1997).
 - "IDENTIFICATION AND DOCUMENTATION OF VERNAL POOLS IN NEW HAMPSHIRE" (1997). NEW HAMPSHIRE FISH AND GAME DEPARTMENT.
- WETLANDS & HOTEL WERE FIELD LOCATED BY AMBIT ENGINEERING, INC.



AMBIT ENGINEERING, INC.
 Civil Engineers & Land Surveyors
 200 Griffin Road - Unit 3
 Portsmouth, N.H. 03801-7114
 Tel (603) 430-9282
 Fax (603) 436-2315

- NOTES:**
- PARCEL IS SHOWN ON THE TOWN OF DURHAM ASSESSOR'S MAP 118 AS LOT 3.
 - OWNERS OF RECORD:
 SEJ PROPERTIES LLC
 4 ROCKY LANE
 DURHAM N.H. 03824
 4870/645
 S.C.R.D. PLAN NO 106-026
 - A PORTION OF THIS PARCEL IS SHOWN IN A SPECIAL FLOOD HAZARD AREA (ZONE AE EL. 32) & REGULATORY FLOODWAY (31.8-LONGMARSH BROOK) AS SHOWN ON FIRM PANEL 33017C0381E. EFFECTIVE DATE SEPTEMBER 30, 2015.
 - EXISTING LOT AREA:
 111,707 S.F.
 2.5644 ACRES
 - PARCEL IS LOCATED IN THE RESIDENCE B ZONING DISTRICT.
 - DIMENSIONAL REQUIREMENTS:
 MIN. LOT AREA: 40,000 S.F.
 FRONTAGE: 150 FEET
 SETBACKS: FRONT 30 FEET
 SIDE 20 FEET
 REAR 30 FEET
 - MINIMUM SHORELAND
 SHORE FRONTAGE: 200 FEET
 MAXIMUM BUILDING HEIGHT: 30 FEET
 MAXIMUM IMPERVIOUS SURFACE RATIO: 30% OF LOT SIZE
 - VERTICAL DATUM IS NAVD88. BASIS OF VERTICAL DATUM IS REDUNDANT RTN GNSS OBSERVATIONS.
 - THE PURPOSE OF THIS PLAN IS TO SHOW THE EXISTING CONDITIONS ON ASSESSOR'S MAP 118 LOT 3 IN THE TOWN OF DURHAM.
 - BOUNDARY FROM PLAN REFERENCE 1.

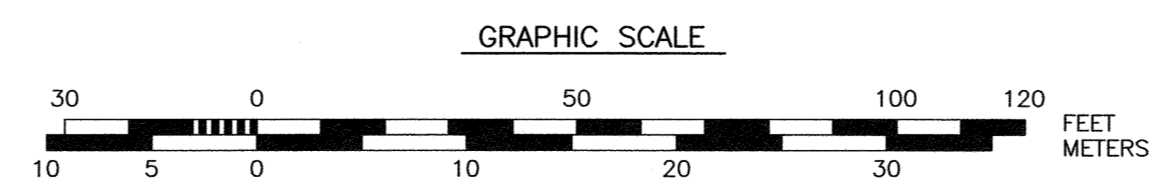
**PROPOSED RESIDENCE
 TBD LONGMARSH ROAD
 DURHAM, N.H.**

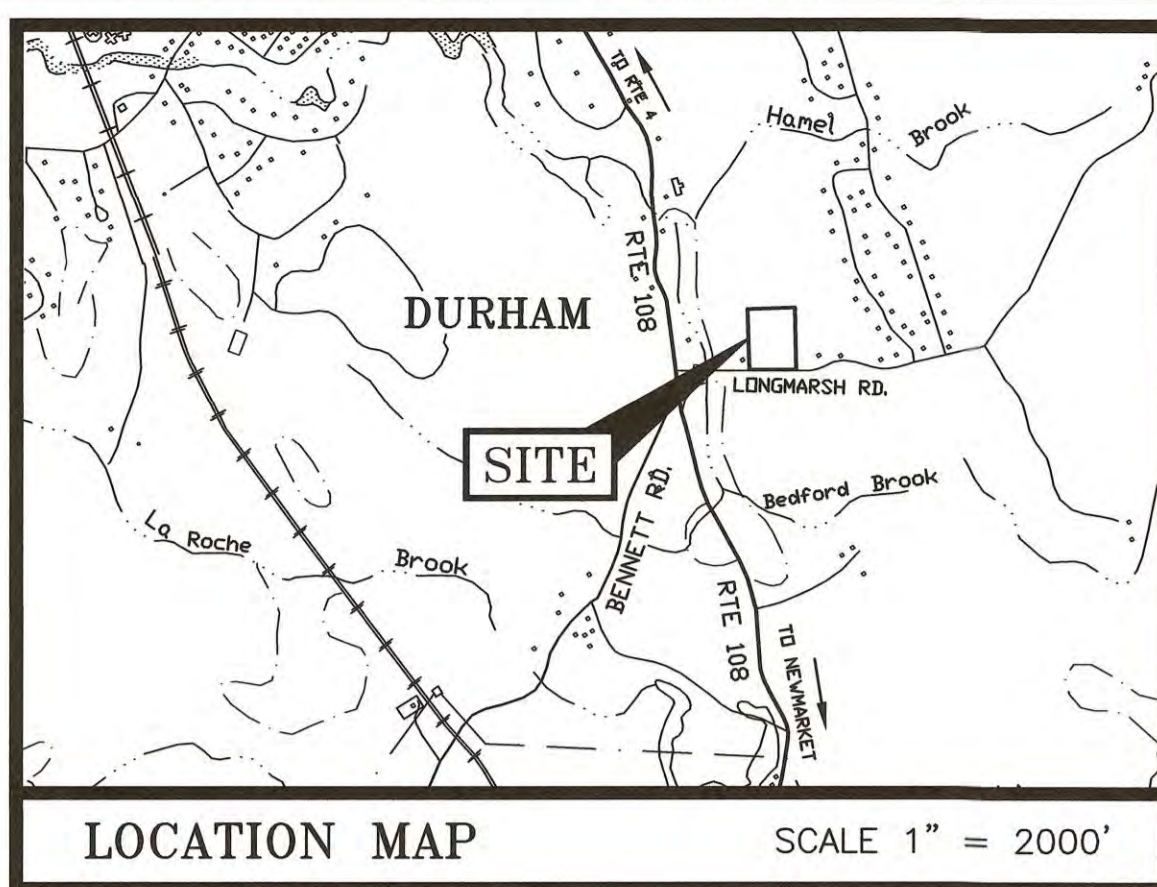
| NO. | DESCRIPTION | DATE |
|-----|---------------------|----------|
| 2 | REV WETLAND BUFFER | 4/11/23 |
| 1 | ISSUED FOR APPROVAL | 3/17/23 |
| 0 | ISSUED FOR COMMENT | 11/18/22 |

REVISIONS

SCALE: 1"=30' SEPTEMBER 2022

EXISTING CONDITIONS PLAN **C1**





LOCATION MAP SCALE 1" = 2000'

LEGEND:

- N/F NOW OR FORMERLY
- RP RECORD OF PROBATE
- SCRD STRAFFORD COUNTY REGISTER OF DEEDS
- RR SPK RAILROAD SPIKE
- MAP 11/LOT 21
- IRON ROD FOUND
- IRON PIPE FOUND
- IRON ROD SET
- DRILL HOLE FOUND
- DRILL HOLE SET
- BOUNDARY LINE
- EDGE OF WETLAND
- 100' TIDAL BUFFER ZONE
- 250' PROTECTED SHORELAND
- OVERHEAD ELECTRIC/WIRES
- CONTOUR
- EDGE OF PAVEMENT (EP)
- TEMPORARY BENCHMARK
- TYP. TYPICAL
- WOODS / TREE LINE
- FHZ FLOOD HAZARD LINE

PLAN REFERENCES:

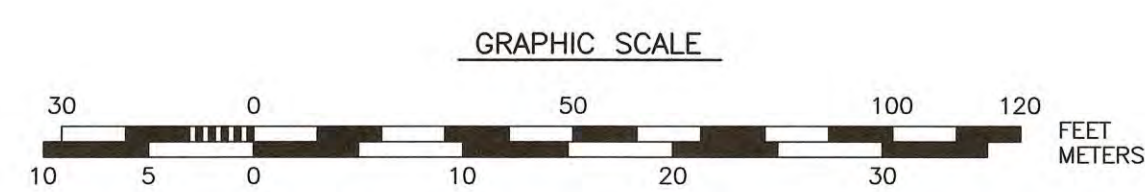
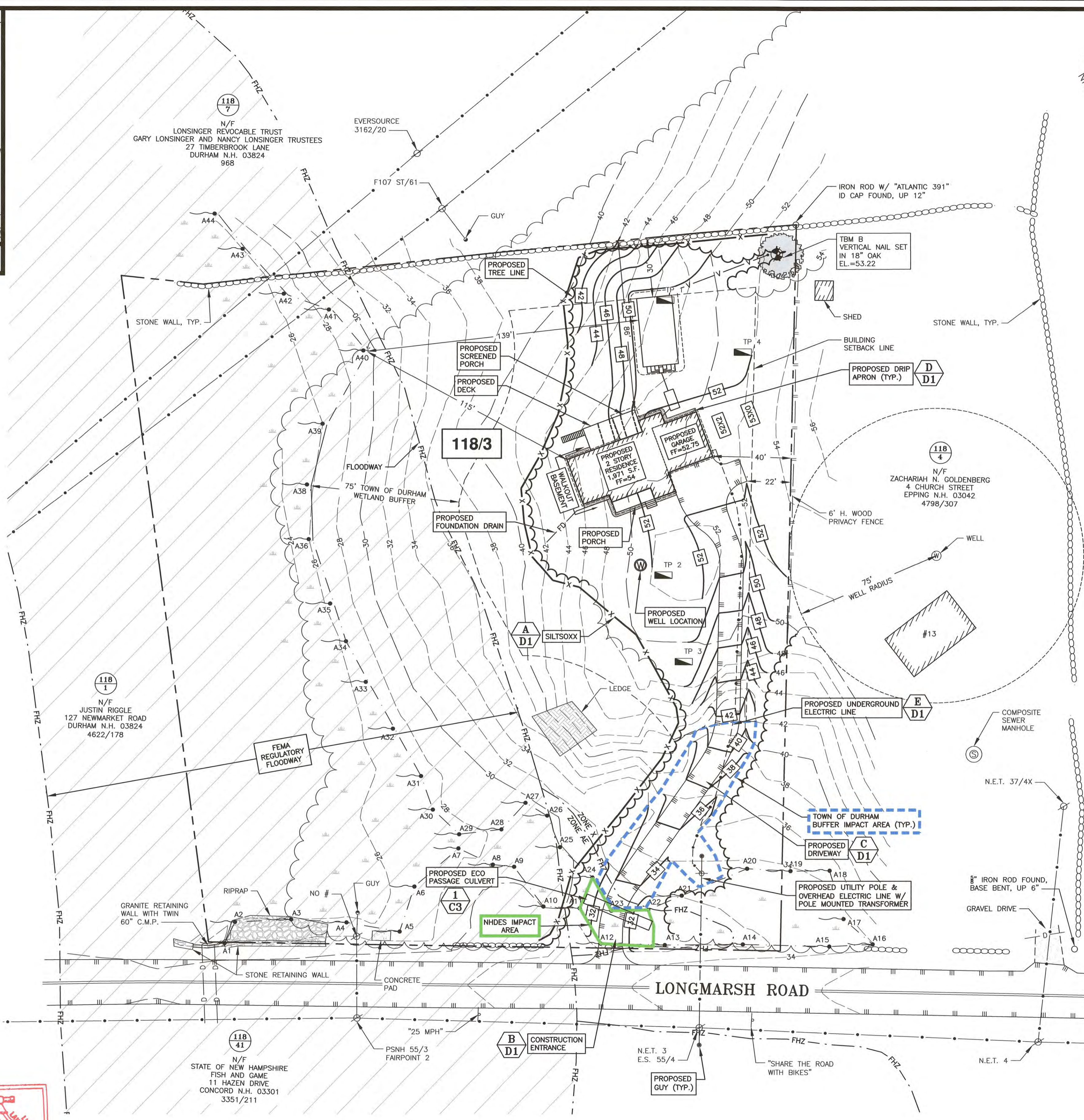
- 1) "SUBDIVISION OF LAND FOR KELLY L. CULLEN—LONGMARSH ROAD DURHAM, N.H." PREPARED BY ATLANTIC SURVEY CO. LLC DATED JANUARY 2013. S.C.R.D. PLAN NO. 106-026.
- 2) "LIMITED SUBDIVISION FOR SUSAN E. BUNKER—27 LONGMARSH ROAD DURHAM, N.H." PREPARED BY THE NLS GROUP DATED AUGUST 31, 1993. S.C.R.D. PLAN NO. 43-93

| TOWN OF DURHAM BUFFER IMPACT AREAS IN S.F. | |
|--|-------|
| | 3,412 |

| NHDES WETLAND IMPACT AREAS IN S.F. | |
|------------------------------------|-----|
| | 691 |

"I CERTIFY THAT THIS PLAN WAS PREPARED UNDER MY DIRECT SUPERVISION, THAT IT IS THE RESULT OF A FIELD SURVEY BY THIS OFFICE AND HAS AN ACCURACY OF THE CLOSED TRAVERSE THAT EXCEEDS THE PRECISION OF 1:15,000."

John R. Chagnon 4.11.23
 JOHN R. CHAGNON, LLS #738 DATE



NOTES:

- 1) PARCEL IS SHOWN ON THE TOWN OF DURHAM ASSESSOR'S MAP 118 AS LOT 3.
- 2) OWNERS OF RECORD:
 SEJ PROPERTIES LLC
 4 ROCKY LANE
 DURHAM N.H. 03824
 4870/645
 S.C.R.D. PLAN NO 106-026
- 3) A PORTION OF THIS PARCEL IS SHOWN IN A FLOOD HAZARD ZONE AS SHOWN ON FIRM PANEL 33017C0381E. EFFECTIVE DATE SEPTEMBER 30, 2015.
- 4) EXISTING LOT AREA:
 111,707 S.F.
 2.5644 ACRES
- 5) PARCEL IS LOCATED IN THE RESIDENCE B ZONING DISTRICT.
- 6) DIMENSIONAL REQUIREMENTS:
 MIN. LOT AREA: 40,000 S.F.
 FRONTAGE: 150 FEET
 SETBACKS: FRONT 30 FEET
 SIDE 20 FEET
 REAR 30 FEET

 MINIMUM SHORELAND SHORE FRONTAGE: 200 FEET
 MAXIMUM STRUCTURE HEIGHT: 30 FEET
 MAXIMUM IMPERVIOUS COVERAGE: 30% OF LOT SIZE
- 7) VERTICAL DATUM IS NAVD88. BASIS OF VERTICAL DATUM IS REDUNDANT RTN GNSS OBSERVATIONS.
- 8) THE PURPOSE OF THIS PLAN IS TO SHOW A PROPOSED RESIDENCE ON ASSESSOR'S MAP 118 LOT 3 IN THE TOWN OF DURHAM.
- 9) HOUSE PLAN FROM PLANS BY ARTFORM HOME PLANS—STYLE "ROBIN CLASSIC".

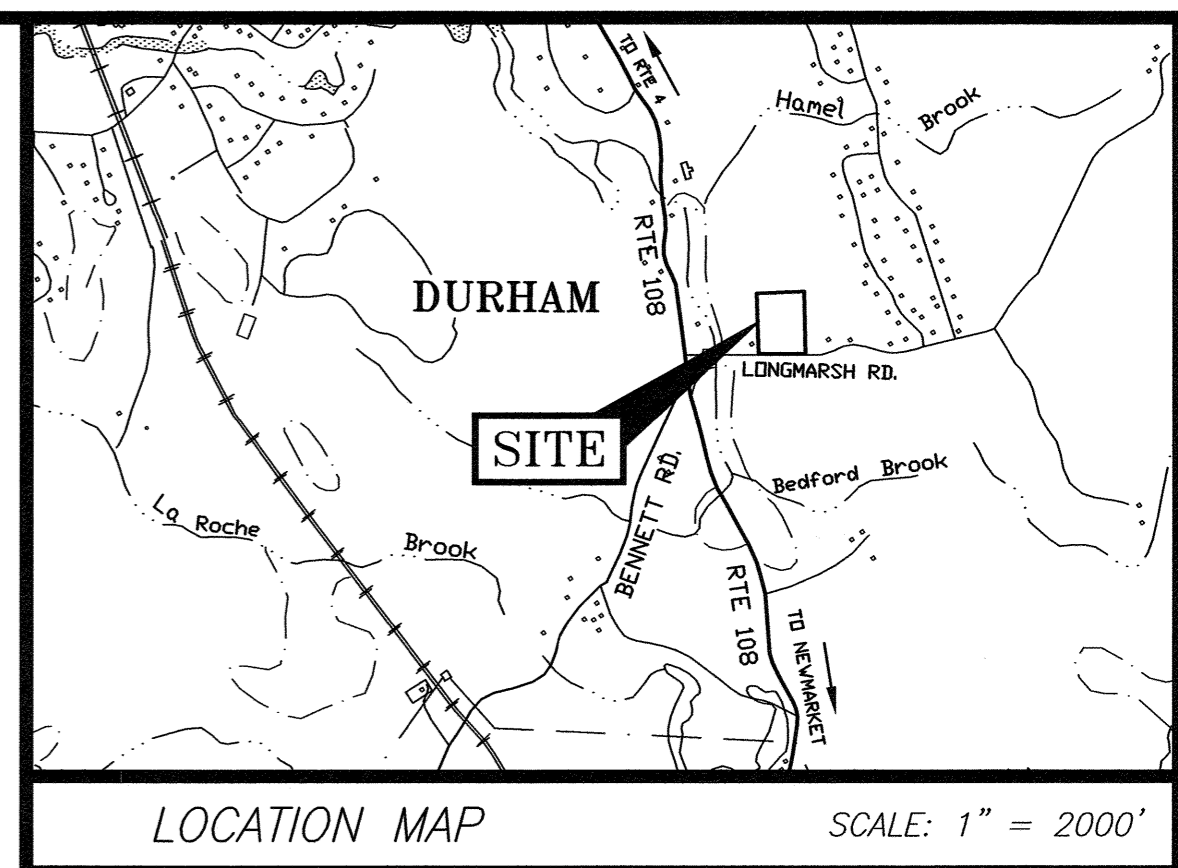
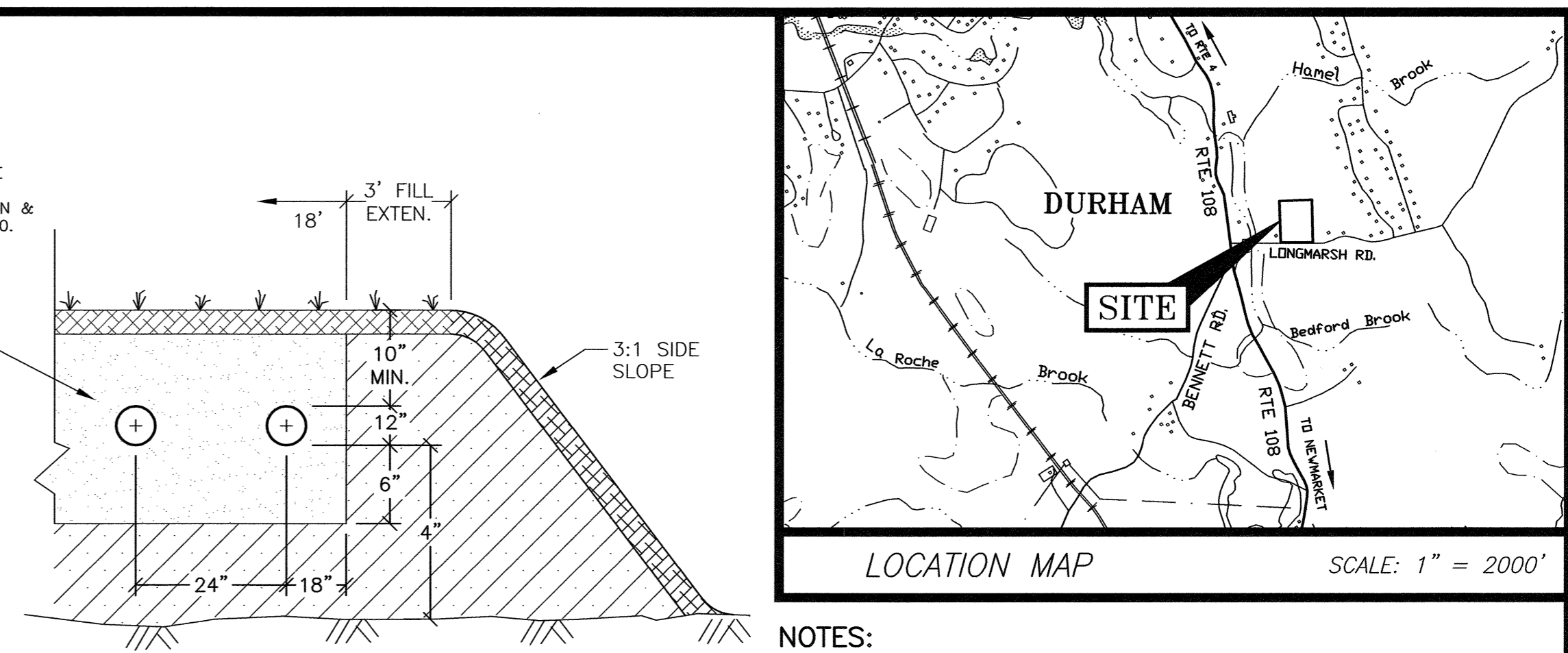
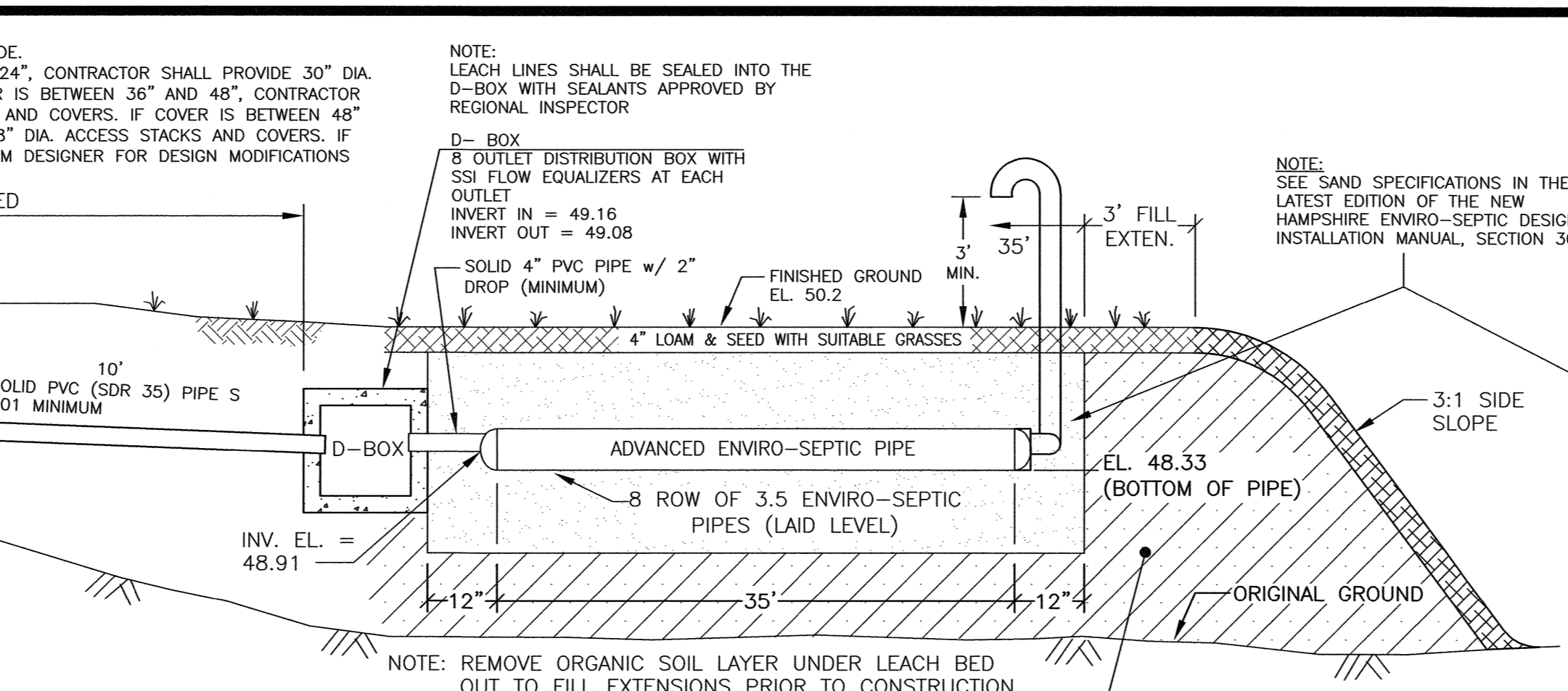
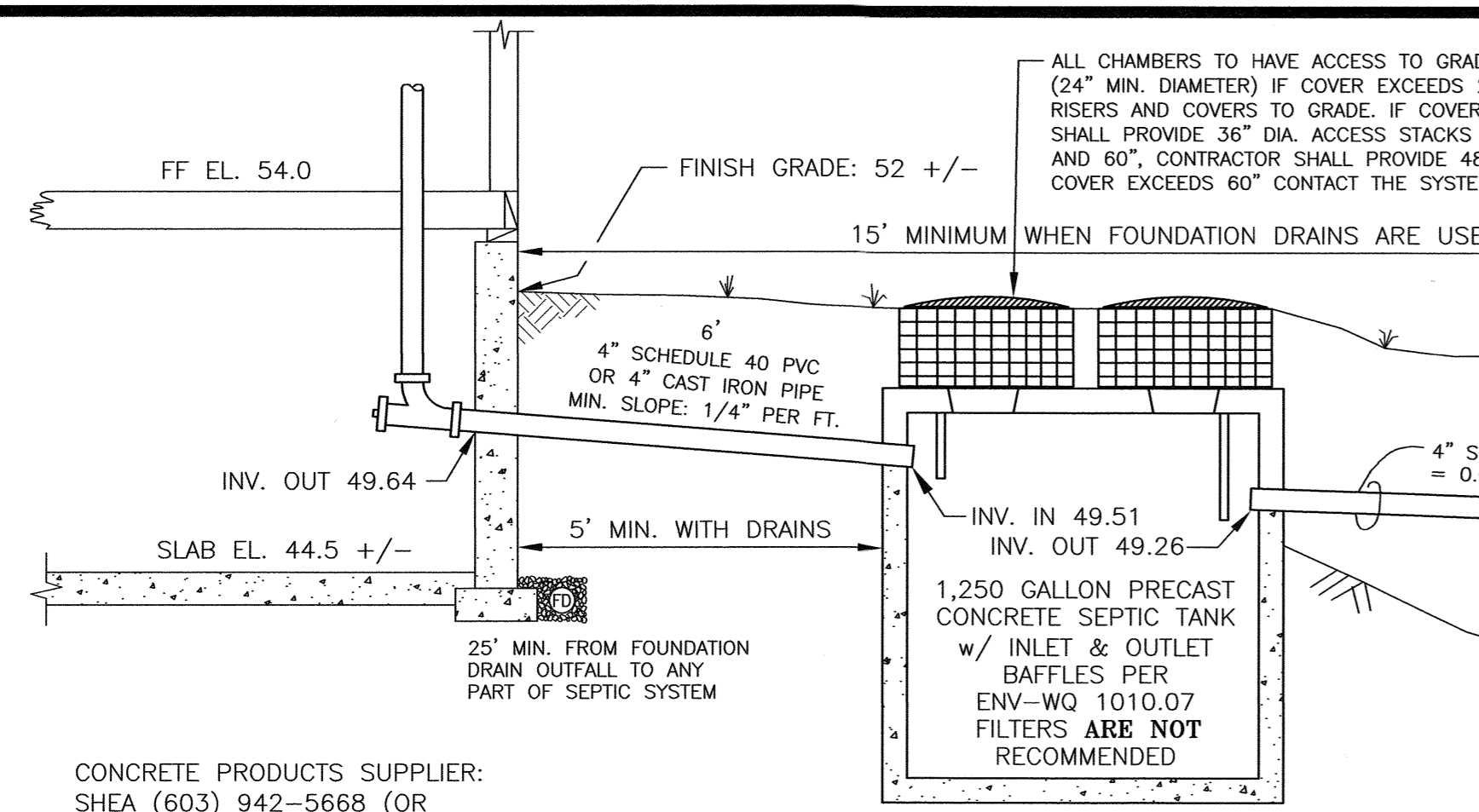
PROPOSED RESIDENCE
 LONGMARSH ROAD
 DURHAM, N.H.

| NO. | DESCRIPTION | DATE |
|-----|---------------------|----------|
| 2 | REV. WETLAND BUFFER | 4/11/23 |
| 1 | ISSUED FOR APPROVAL | 3/17/23 |
| 0 | ISSUED FOR COMMENT | 11/18/22 |



SCALE: 1"=30' MARCH 2023

PERMIT PLAN **C2**



CONCRETE PRODUCTS SUPPLIER:
SHEA (603) 942-5668 (OR APPROVED EQUAL)

- LEGEND:**
- 100- EXISTING CONTOUR
 - 100- PROPOSED CONTOUR
 - TP TEST PIT
 - PT PERC TEST
 - ST SEPTIC TANK
 - FF FINISH FLOOR
 - INV. INVERT
 - MIN. MINIMUM
 - FD FOUNDATION DRAIN
 - V SEPTIC VENT PIPE

- MINIMUM DISTANCES:**
(UNLESS OTHERWISE GOVERNED BY LOCAL CODE)
- SURFACE WATER TO:
TANK 75' - FIELD 75'
- PRIVATE WELL TO:
TANK 75' - FIELD 75'
- PRESSURE WATER LINE TO:
TANK 10' - FIELD 25'
- SUCTION WATER LINE TO:
TANK 50' - FIELD 50'
- PROPERTY LINE TO:
TANK 10' - FIELD 10'

TEST PIT 1
Date: 12/7/22
Logged by: STEVEN RIKER
Witnessed by: DICK KEARNEY
ESHW: 26"
Observed Water: NONE
Restrictive layer: 41"
REFUSAL: LEDGE AT 56"
Percolation rate: 12 MINS./INCH
Roots: NONE

TEST PIT 4
Date: 12/7/22
Logged by: STEVEN RIKER
Witnessed by: DICK KEARNEY
ESHW: 31"
Observed Water: NONE
Restrictive layer: 31"
REFUSAL: LEDGE AT 44"
Percolation rate: 14 MINS./INCH
Roots: NONE

COLLECTION SYSTEM PROFILE
NTS

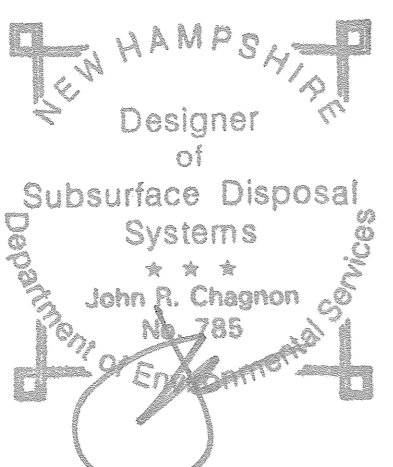
LEACH FIELD PROFILE
NTS

LEACH FIELD SECTION
NTS

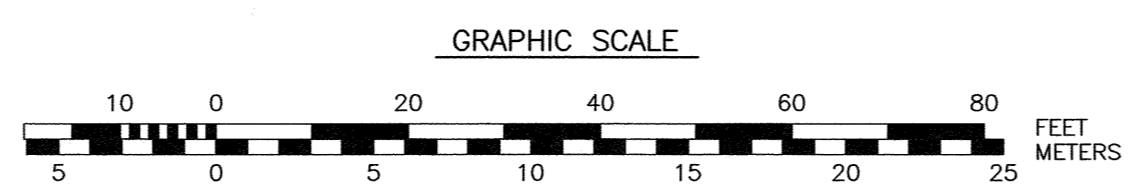
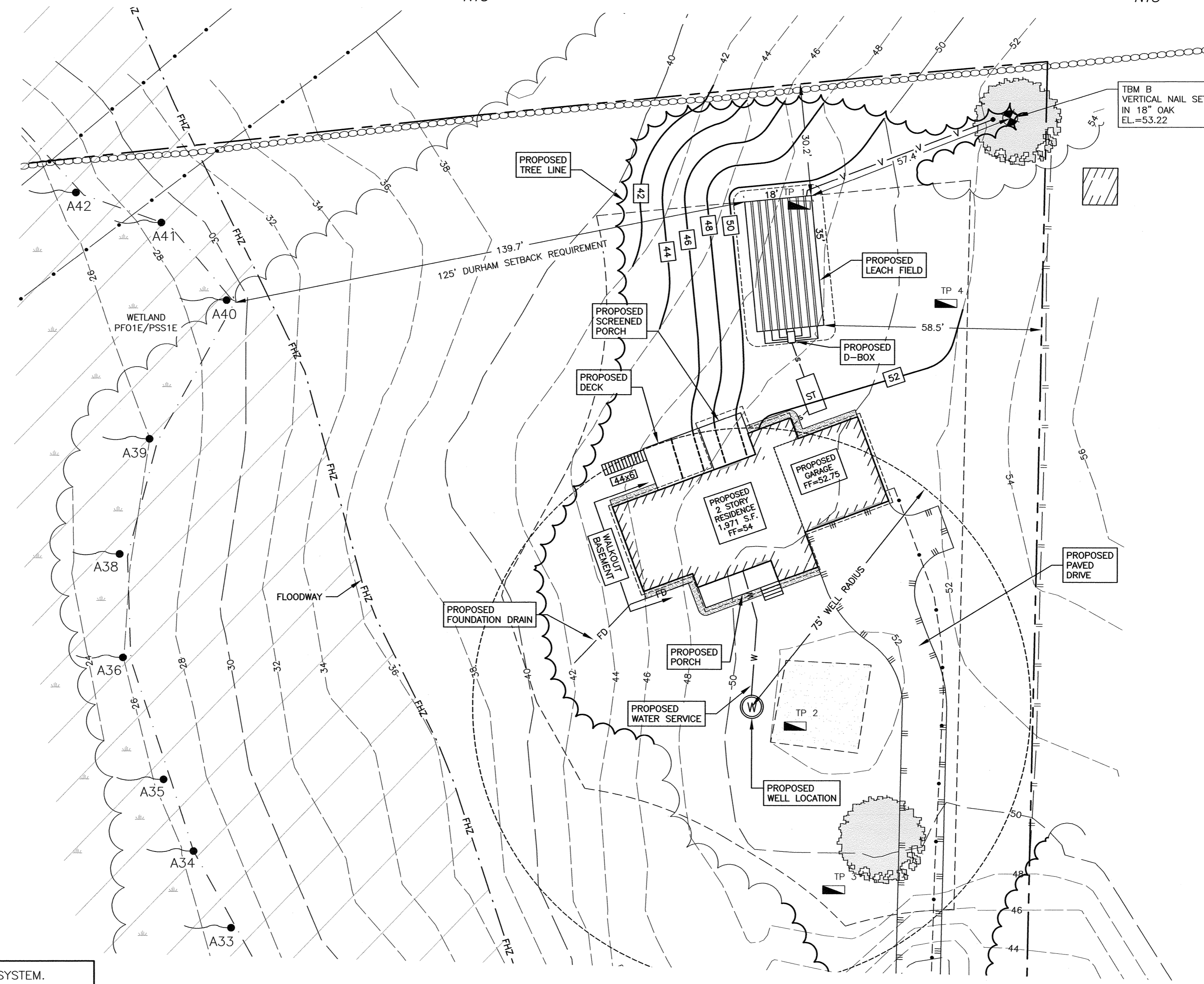
DESIGN INTENT:
THE PURPOSE OF THIS DESIGN IS TO MAINTAIN 2' ABOVE SEASONAL HIGH WATER TABLE & 4' ABOVE LEDGE OR ANY IMPERMEABLE SUBSTRATUM BY CONSTRUCTING THE BOTTOM OF THE PIPE AT ELEVATION 48.33 WHICH IS 4" ABOVE EXISTING GROUND AT THE HIGHEST POINT. (HP 48.0)

Lot Loading Calculations Worksheet
JN 3490

| Soil Name | Soil Group | Slope | Ledge (Y/N) | Load Factor | Area (sf) | Allowable Flow (GPD) |
|-----------|------------|-------|-------------|-------------|-----------|----------------------|
| Ledge | 6 | C | Y | | 483 | |
| Be | 6 | A | N | | 30,582 | |
| Scb | 5 | A | N | 3 | 5,990 | 92 |
| HdC | | | | | | |
| Hollis | 4 | C | N | 1.6 | 42,552 | 1,221 |
| HdC | | | | | | |
| Charlton | 1 | C | N | 1.1 | 32,100 | 1,340 |
| | | | | | 111,707 | 2,653 |



THIS IS A DESIGN FOR AN ADVANCED ENVIRO-SEPTIC TREATMENT SYSTEM. ADVANCED ENVIRO-SEPTIC TREATMENT SYSTEMS ARE APPROVED BY NHDES AS AN ITA IN ACCORDANCE WITH PART ENV-Ws 1024.08(c) AND 1024.10. THE SYSTEM IS DESIGNED IN ACCORDANCE WITH THE ADVANCED ENVIRO-SEPTIC DESIGN AND INSTALLATION MANUAL, NEW HAMPSHIRE EDITION. FOR INFORMATION, CALL 1-800-473-5298.



Wetlands were delineated on the basis of hydrophytic vegetation, hydric soils and wetland hydrology in accordance with the techniques outlined in the "Corps of Engineers Wetland Delineation Manual, Technical Report Y-87-1", January 1987. The hydric soil component was determined by using the "Field Indicators for Identifying Hydric Soils in New England, Version 3", NEIWPCC Wetlands Work Group (April 2004).

- NOTES:**
- 1) PROPOSED FLOW: 4 BEDROOMS, 4 X 150 = 600 GPD.
 - 2) PROPOSED FIELD SIZE: AT 10 MINUTE PERC CONVENTIONAL EFFLUENT DISPOSAL AREA: 1,100 S.F. ADVANCED ENVIRO-SEPTIC REQUIRED LENGTH: 280 FEET 280 FEET OF ENVIRO-SEPTIC PIPE PROVIDED.
 - 3) THIS PLAN IS PREPARED FOR SEPTIC SYSTEM DESIGN ONLY, IT IS NOT A BOUNDARY SURVEY.
 - 4) FOUNDATION DRAINS: SEE PLAN LOCATION.
 - 5) FLOOD HAZARD: A PORTION OF THIS PARCEL IS SHOWN IN A FLOOD HAZARD ZONE AS SHOWN ON FIRM PANEL 33017C0381E. EFFECTIVE DATE SEPTEMBER 30, 2015.
 - 6) ANY CHANGES TO THE SPECIFICATIONS SHOWN HEREON SHALL BE SUBMITTED TO THE DESIGNER, IN WRITING, FOR APPROVAL PRIOR TO ANY CONSTRUCTION OR SAID CHANGES.
 - 7) IN THE EVENT OF SYSTEM FAILURE: REBUILD IN PLACE.
 - 8) WATER SUPPLY: PROPOSED WELL.
 - 9) THE OWNER IS RESPONSIBLE TO OPERATE THIS SYSTEM WITHIN ITS DESIGN CAPACITY. THE AVERAGE DAILY FLOW TO THE LEACHFIELD SHOULD BE NO MORE THAN 1/2 ITS APPROVED DESIGN CAPACITY. FOR SUCCESSFUL OPERATION OF DISPOSAL SYSTEM, MAINTENANCE IS REQUIRED.
 - HAVE TANK PUMPED AS REQUIRED (3 YEAR MAXIMUM).
 - DO NOT DISPOSE BULKY WASTES, TOXIC MATERIALS, OR OIL INTO SYSTEM.
 - DO NOT DISPOSE GREASE INTO THE SYSTEM. CLEAN SEPTIC TANK FILTER WHEN PUMPING TANK.
 - DO NOT ALLOW VEHICLES OR LIVESTOCK ONTO SYSTEM UNLESS SPECIFICALLY DESIGNED FOR SUCH LOADS.
 - DO NOT USE COLORED TOILET PAPER.
 - CONSULT THE SYSTEM DESIGNER PRIOR TO PLACING ANY ADDITIONAL LOADING ON THE SYSTEM, SUCH AS: KITCHEN GARBAGE GRINDERS, HOT TUBS, WHIRLPOOLS, OR BACKWASH SYSTEMS.
 - 10) THIS SEPTIC SYSTEM SHALL BE INSTALLED BY OR UNDER THE SUPERVISION OF A NHDES LICENSED INSTALLER. INSTALLER IS RESPONSIBLE FOR PLACING THE LEACH FIELD IN LOCATION SHOWN ON THIS PLAN, USING TIES PROVIDED. ANY DISCREPANCY BETWEEN THESE PLANS AND THE APPARENT FIELD CONDITIONS SHALL BE REPORTED TO THE DESIGNER PRIOR TO CONSTRUCTION. SYSTEM MUST BE INSPECTED AND APPROVED BY NH-DES PRIOR TO BACKFILLING.
 - 11) CONSTRUCTION APPROVAL FOR THIS SYSTEM SHALL EXPIRE 4 YEARS FROM DATE OF ISSUE.

SOIL TYPE: HOLLIS-CHARLTON VERY ROCKY FINE SANDY LOAMS, 8 TO 15 PERCENT SLOPES.

BENCHMARK: VERTICAL NAIL SET IN 18" OAK. EL.=53.22. DATUM: NAVD88

DISTANCE TO NEAREST SURFACE WATER: 139.7 TO HYDRIC A WETLAND.

DIRECTIONS TO SITE
FROM THE PORTSMOUTH TRAFFIC CIRCLE EXIT ONTO NH-RTE 16/US RTE 4, CONTINUE ON RTE 16/4 FOR 4.7 MILES, THE EXIT ONTO US RTE 4 WEST, FOLLOW SIGNS FOR US-RTE 4 WEST, CONTINUE ON US RTE 4 WEST FOR 3.4 MILES, THEN TAKE NH-108 EXIT TOWARDS DURHAM/DOVER, THEN HEAD SOUTH ON RTE 108 TOWARDS DURHAM, CONTINUE ON RTE 108 FOR 3.3 MILES, THEN TAKE A LEFT ONTO LONGMARSH RD, CONTINUE ON LONGMARSH RD FOR APPROXIMATELY 280 FEET. DESTINATION ON THE LEFT.

MAP 118 LOT 3
TBD - LONGMARSH ROAD
SUBSURFACE DISPOSAL SYSTEM PLAN
DURHAM, N.H.

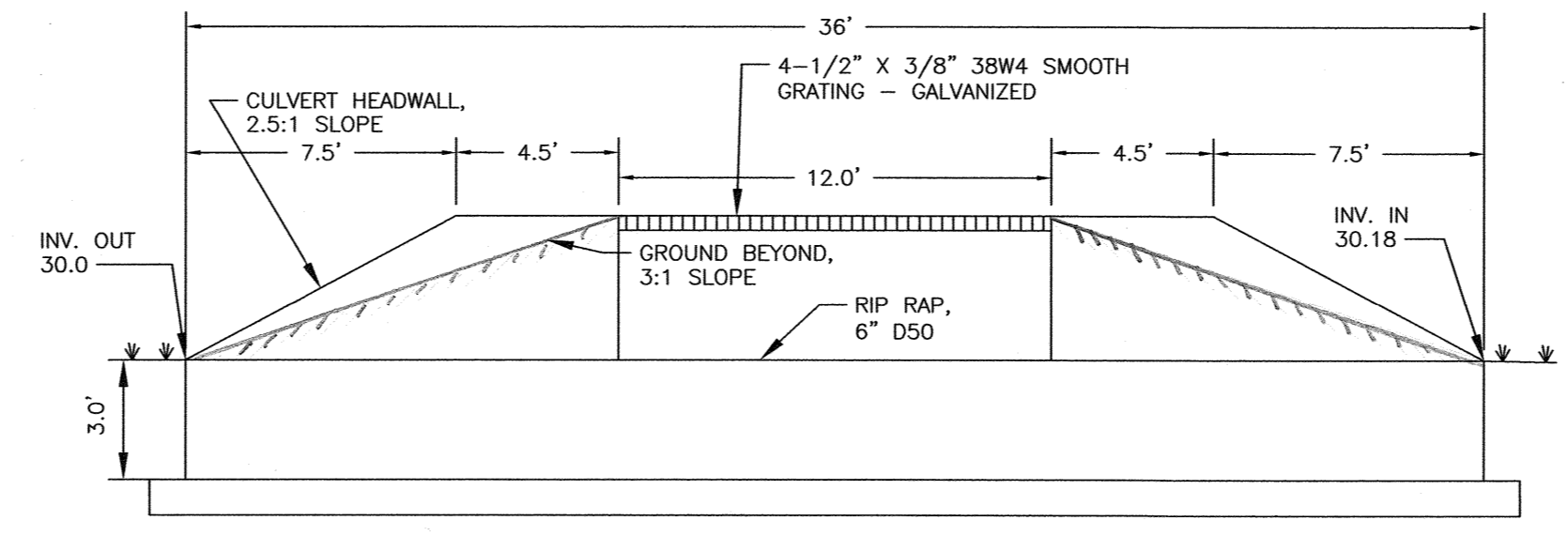
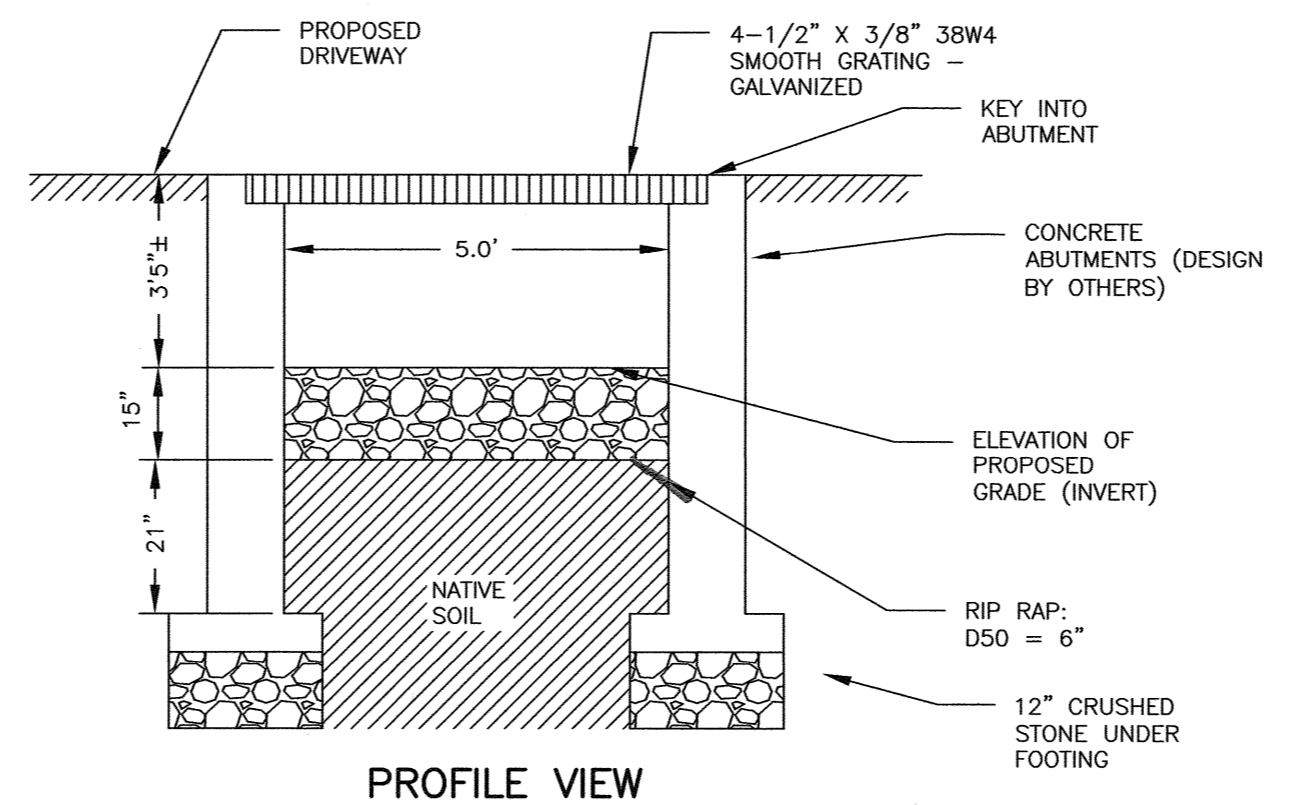
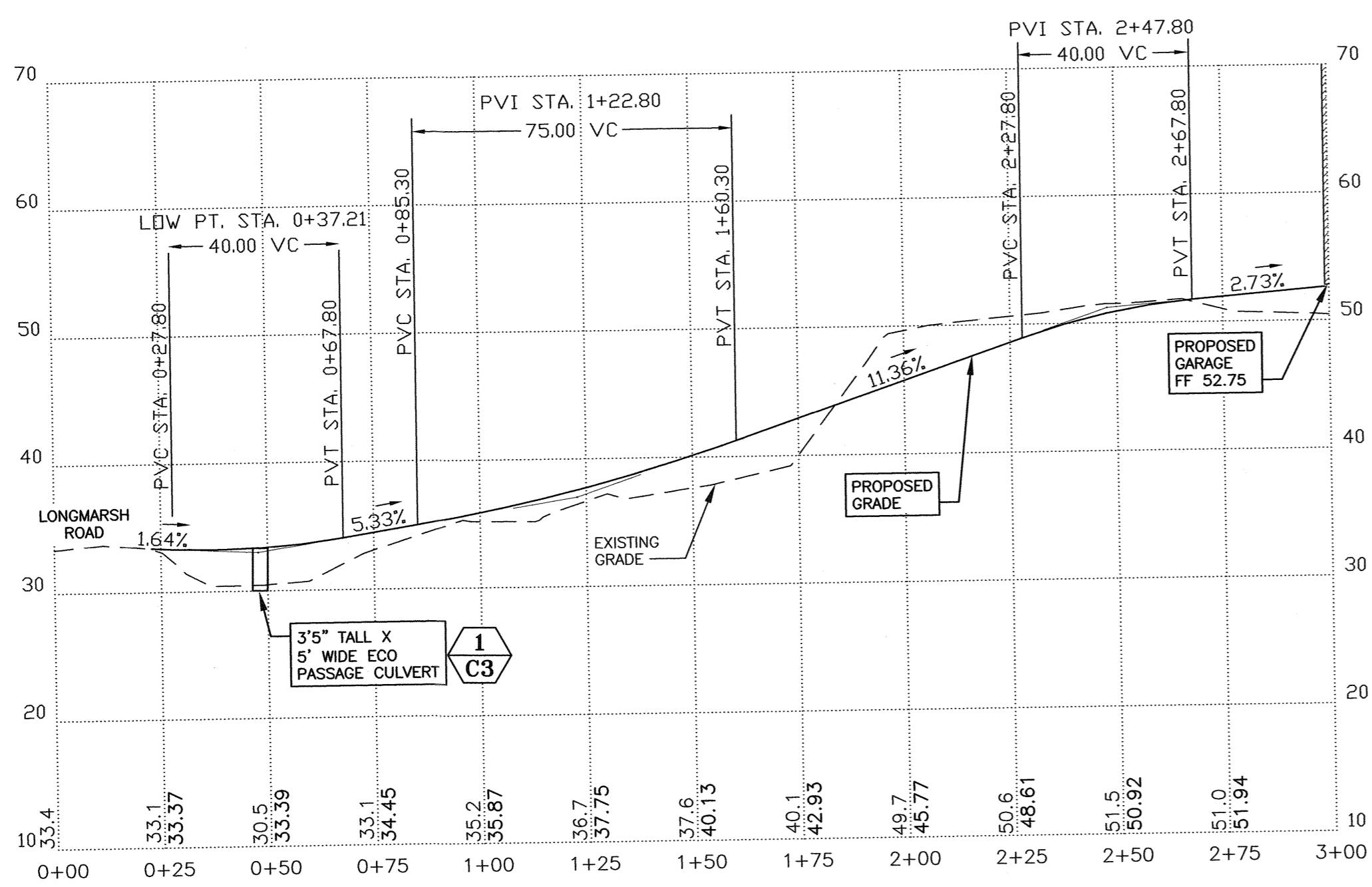
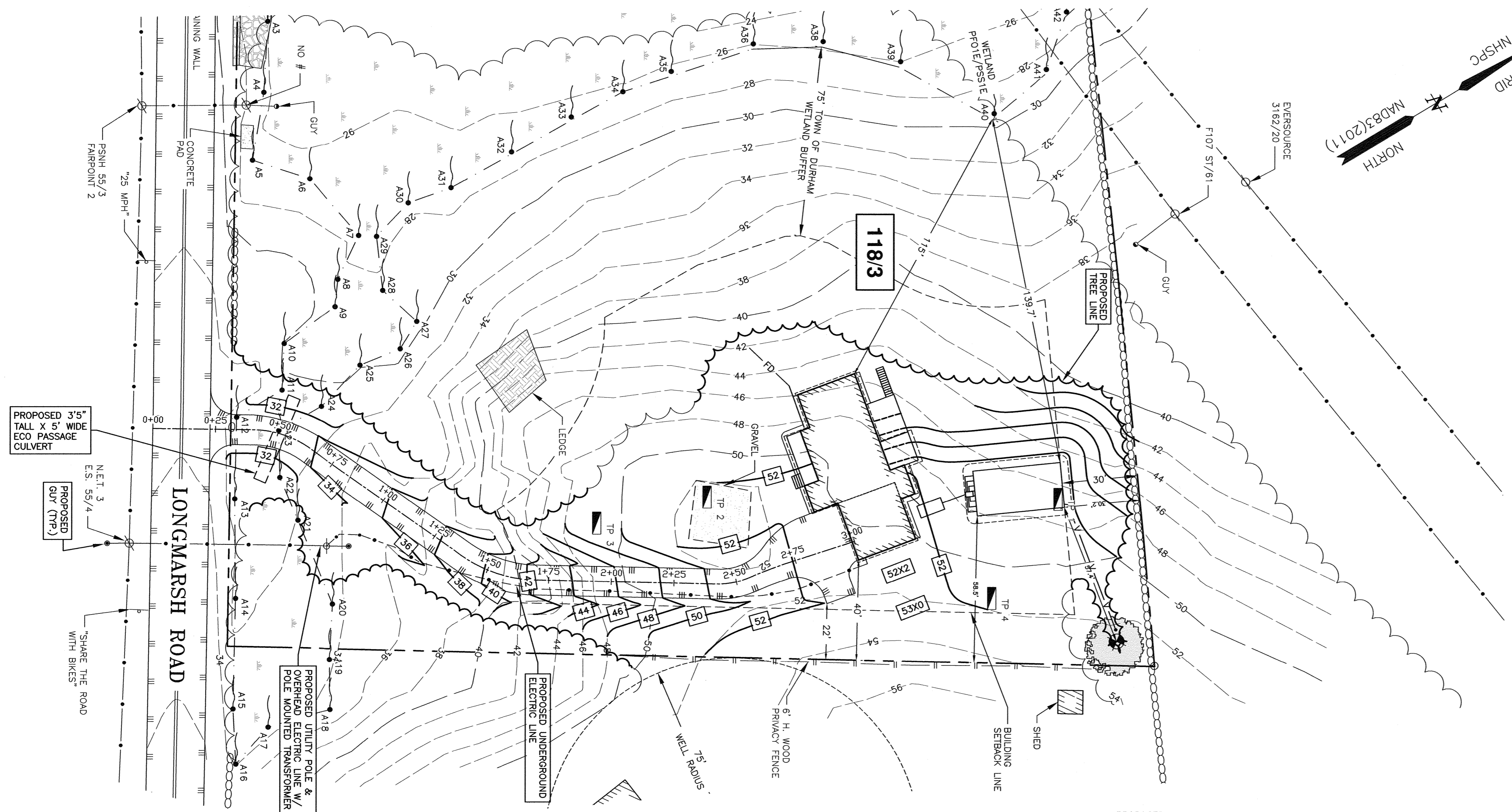
REGISTRY: STRAFFORD
BOOK / PAGE: 4870/645
NHDES SUBDIVISION APPROVAL NO.: SA 2013 010163
NHDES SYSTEM APPROVAL NO.: PENDING

OWNER: SEJ PROPERTIES LLC
4 ROCKY LANE
DURHAM, N.H. 03824

APPLICANT:
AMBIT ENGINEERING, INC.
Civil Engineers & Land Surveyors
200 Griffin Road - Unit 3
Portsmouth, N.H. 03801-7114
Tel (603) 430-9282
Fax (603) 436-2315

NOTES:

- 1) THE CONTRACTOR SHALL NOTIFY DIG SAFE AT 1-888-DIG-SAFE (1-888-344-7233) AT LEAST 72 HOURS PRIOR TO COMMENCING ANY EXCAVATION ON PUBLIC OR PRIVATE PROPERTY WITHIN 100 FEET OF UNDERGROUND UTILITIES. THE EXCAVATOR IS RESPONSIBLE TO MAINTAIN MARKS. DIG SAFE TICKETS EXPIRE IN THIRTY DAYS.
- 2) UNDERGROUND UTILITY LOCATIONS ARE BASED UPON BEST AVAILABLE EVIDENCE AND ARE NOT FIELD VERIFIED. LOCATING AND PROTECTING ANY ABOVEGROUND OR UNDERGROUND UTILITIES IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND/OR THE OWNER. UTILITY CONFLICTS SHOULD BE REPORTED AT ONCE TO THE DESIGN ENGINEER.
- 3) CONTRACTOR SHALL INSTALL AND MAINTAIN EROSION CONTROL MEASURES IN ACCORDANCE WITH THE "NEW HAMPSHIRE STORMWATER MANUAL, VOLUME 3, EROSION AND SEDIMENT CONTROLS DURING CONSTRUCTION. (NHDES DECEMBER 2008).

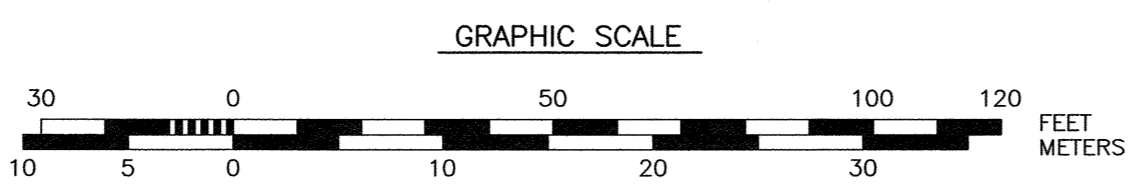


- NOTES:**
1. CONCRETE SHALL BE 5000 PSI.
 2. GRATING TO BE EQUIVALENT TO 38W4 (4-1/2" X 3/8") SMOOTH GRATING - GALVANIZED - LOAD BANDING AS PROVIDED BY LAUREL CUSTOM GRATING, LLC. <https://laurelcustomgrating.com/>
 3. ALL REINFORCEMENT PER ASTM A-615-75.
 4. DESIGN LOAD: H-20 LOADING
 5. ABUTMENT TO BE DESIGNED BY A STRUCTURAL ENGINEER PRIOR TO INSTALLATION.
 6. 36' LONG CULVERT: INV. IN 30.18, INV. OUT 30.0, S=0.005

RIPRAP GRADATION TABLE

| RIPRAP - 6" | |
|---|-------------------------------|
| % OF WEIGHT SMALLER THAN THE GIVEN SIZE | SIZE OF STONE RANGE IN INCHES |
| 100 | 12 |
| 50 | 5.7 TO 6.9 |
| 15 | 3.7 TO 5.2 |

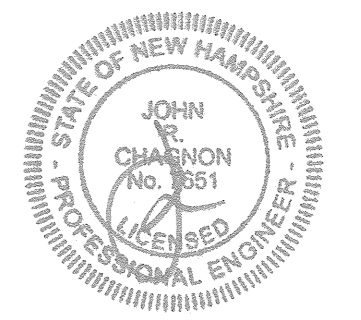
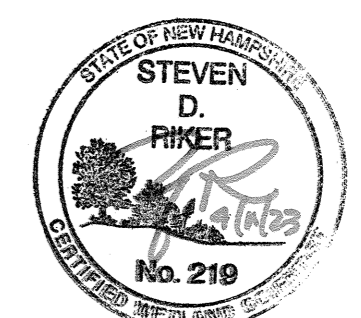
SCALE: 1" = 30' (HOR.)
1" = 10' (VERT.)



1 ECO PASSAGE CULVERT DETAIL
C3 NTS

**PROPOSED RESIDENCE
LONGMARSH ROAD
DURHAM, N.H.**

| NO. | DESCRIPTION | DATE |
|-----|---------------------|----------|
| 2 | REV. WETLAND BUFFER | 4/11/23 |
| 1 | ISSUED FOR APPROVAL | 3/17/23 |
| 0 | ISSUED FOR COMMENT | 11/18/22 |



SCALE: H:1"=30' V:1"=10' MARCH 2023

**DRIVEWAY
PLAN & PROFILE**

C3

EROSION CONTROL NOTES

CONSTRUCTION SEQUENCE

DO NOT BEGIN CONSTRUCTION UNTIL ALL LOCAL, STATE AND FEDERAL PERMITS HAVE BEEN APPLIED FOR AND RECEIVED.

THE CONTRACTOR SHALL OBTAIN AN NPDES PHASE II STORMWATER PERMIT AND SUBMIT A NOTICE OF INTENT (N.O.I) BEFORE BEGINNING CONSTRUCTION AND SHALL HAVE ON SITE A STORMWATER POLLUTION PREVENTION PLAN (S.W.P.P.P.) AVAILABLE FOR INSPECTION BY THE PERMITTING AUTHORITY DURING THE CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CARRYING OUT THE S.W.P.P.P. AND INSPECTING AND MAINTAINING ALL BMP'S CALLED FOR BY THE PLAN. THE CONTRACTOR SHALL SUBMIT A NOTICE OF TERMINATION (N.O.T) FORM TO THE REGIONAL EPA OFFICE WITHIN 30 DAYS OF FINAL STABILIZATION OF THE ENTIRE SITE OR TURNING OVER CONTROL OF THE SITE TO ANOTHER OPERATOR.

INSTALL PERIMETER CONTROLS, I.E., SILT/SOXX AROUND THE LIMITS OF DISTURBANCE BEFORE ANY EARTH MOVING OPERATIONS. THE USE OF HAYBALES IS NOT ALLOWED.

CONSTRUCT STABILIZED CONSTRUCTION ENTRANCE.

CUT AND GRUB ALL TREES, SHRUBS, SAPLINGS, BRUSH, VINES AND REMOVE OTHER DEBRIS AND RUBBISH AS REQUIRED.

STRIP LOAM AND CREATE PILE. CIRCLE WITH SILT/SOXX.

CONSTRUCT GRAVEL BASE.

LAYOUT AND INSTALL ALL BURIED UTILITIES AND SERVICES. CAP AND MARK TERMINATIONS OR LOG SWING TIES.

CONSTRUCT SITE IMPROVEMENTS.

FINISH GRADE SITE, BACKFILL ROAD SUB-BASE GRAVEL.

PLANT LANDSCAPING.

REMOVE TRAPPED SEDIMENTS FROM COLLECTION DEVICES AS APPROPRIATE, AND THEN REMOVE TEMPORARY EROSION CONTROL MEASURES UPON COMPLETION OF FINAL STABILIZATION OF THE SITE.

GENERAL CONSTRUCTION NOTES

THE EROSION CONTROL PROCEDURES SHALL CONFORM TO SECTION 645 OF THE "STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION" OF THE NHDOT, AND "STORM WATER MANAGEMENT AND EROSION AND SEDIMENT CONTROL HANDBOOK FOR URBAN AND DEVELOPING AREAS IN NEW HAMPSHIRE". THE PROJECT IS TO BE MANAGED IN A MANNER THAT MEETS THE REQUIREMENTS AND INTENT OF RSA 430:53 AND CHAPTER ACR 3800 RELATIVE TO INVASIVE SPECIES.

DURING CONSTRUCTION AND THEREAFTER, EROSION CONTROL MEASURES ARE TO BE IMPLEMENTED AS NOTED. THE SMALLEST PRACTICAL AREA OF LAND SHOULD BE EXPOSED AT ANY ONE TIME DURING DEVELOPMENT. NO DISTURBED AREA SHALL BE LEFT UNSTABILIZED FOR MORE THAN 45 DAYS.

ANY DISTURBED AREAS WHICH ARE TO BE LEFT TEMPORARILY, AND WHICH WILL BE REGRADED LATER DURING CONSTRUCTION SHALL BE MACHINE HAY MULCHED AND SEEDED WITH RYE GRASS TO PREVENT EROSION.

DUST CONTROL: IF TEMPORARY STABILIZATION PRACTICES, SUCH AS TEMPORARY VEGETATION AND MULCHING, DO NOT ADEQUATELY REDUCE DUST GENERATION, APPLICATION OF WATER OR CALCIUM CHLORIDE SHALL BE APPLIED IN ACCORDANCE WITH BEST MANAGEMENT PRACTICES.

SILT FENCES AND SILT/SOXX SHALL BE PERIODICALLY INSPECTED DURING THE LIFE OF THE PROJECT AND AFTER EACH STORM. ALL DAMAGED SILT FENCES AND SILT/SOXX SHALL BE REPAIRED. SEDIMENT DEPOSITS SHALL PERIODICALLY BE REMOVED AND DISPOSED IN A SECURED LOCATION.

AVOID THE USE OF FUTURE OPEN SPACES (LOAM AND SEED AREAS) WHEREVER POSSIBLE DURING CONSTRUCTION. CONSTRUCTION TRAFFIC SHALL USE THE ROADBEDS OF FUTURE ACCESS DRIVES AND PARKING AREAS.

ADDITIONAL TOPSOIL REQUIRED FOR THE ESTABLISHMENT OF VEGETATION SHALL BE STOCKPILED IN AMOUNTS NECESSARY TO COMPLETE FINISHED GRADING OF ALL EXPOSED AREAS--CONSTRUCT SILT FENCE OR SILT/SOXX AROUND TOPSOIL STOCKPILE.

AREAS TO BE FILLED SHALL BE CLEARED, GRUBBED AND STRIPPED OF TOPSOIL TO REMOVE TREES, VEGETATION, ROOTS OR OTHER OBJECTIONABLE MATERIAL. STUMPS SHALL BE DISPOSED OF IN AN APPROVED FACILITY.

ALL FILLS SHALL BE PLACED AND COMPACTED TO REDUCE EROSION, SLIPPAGE, SETTLEMENT, SUBSIDENCE OR OTHER RELATED PROBLEMS.

ALL NON-STRUCTURAL, SITE-FILL SHALL BE PLACED AND COMPACTED TO 90% MODIFIED PROCTOR DENSITY IN LAYERS NOT EXCEEDING 18 INCHES IN THICKNESS UNLESS OTHERWISE NOTED.

FROZEN MATERIAL OR SOFT, MUCKY OR HIGHLY COMPRESSIBLE MATERIAL, TRASH, WOODY DEBRIS, LEAVES, BRUSH OR ANY DELTERIOUS MATTER SHALL NOT BE INCORPORATED INTO FILLS.

FILL MATERIAL SHALL NOT BE PLACED ON FROZEN FOUNDATION SUBGRADE.

DURING CONSTRUCTION AND UNTIL ALL DEVELOPED AREAS ARE FULLY STABILIZED, ALL EROSION CONTROL MEASURES SHALL BE INSPECTED WEEKLY AND AFTER EACH ONE HALF INCH OF RAINFALL.

THE CONTRACTOR SHALL MODIFY OR ADD EROSION CONTROL MEASURES AS NECESSARY TO ACCOMMODATE PROJECT CONSTRUCTION.

ALL ROADWAYS AND PARKING AREAS SHALL BE STABILIZED WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE. ALL CUT AND FILL SLOPES SHALL BE SEEDED/LOADED WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE.

AN AREA SHALL BE CONSIDERED STABLE IF ONE OF THE FOLLOWING HAS OCCURRED:

- BASE COURSE GRAVELS HAVE BEEN INSTALLED ON AREAS TO BE PAVED
- A MINIMUM OF 85% VEGETATED GROWTH HAS BEEN ESTABLISHED
- A MINIMUM OF 3 INCHES OF NON-EROSIVE MATERIAL SUCH AS STONE OR RIPRAP HAS BEEN INSTALLED
- EROSION CONTROL BLANKETS HAVE BEEN INSTALLED

VEGETATIVE PRACTICE

FOR PERMANENT MEASURES AND PLANTINGS:

LIMESTONE SHALL BE THOROUGHLY INCORPORATED INTO THE LOAM LAYER AT A RATE OF 2 TONS PER ACRE.

FERTILIZER SHALL BE SPREAD ON THE TOP LAYER OF LOAM AND WORKED INTO THE SURFACE. FERTILIZER APPLICATION RATE SHALL BE 500 POUNDS PER ACRE OF 10-20-20 FERTILIZER.

SEED SHALL BE SOWN AT THE RATES SHOWN IN THE TABLE BELOW. IMMEDIATELY BEFORE SEEDING, THE SOIL SHALL BE LIGHTLY RAKED. ONE HALF THE SEED SHALL BE SOWN IN ONE DIRECTION AND THE OTHER HALF AT RIGHT ANGLES TO THE ORIGINAL DIRECTION. IT SHALL BE LIGHTLY RAKED INTO THE SOIL TO A DEPTH NOT OVER 1/4 INCH AND ROLLED WITH A HAND ROLLER WEIGHING NOT OVER 100 POUNDS PER LINEAR FOOT OF WIDTH. HAY MULCH SHALL BE APPLIED IMMEDIATELY AFTER SEEDING AT A RATE OF 1.5 TO 2 TONS PER ACRE, AND SHALL BE HELD IN PLACE USING APPROPRIATE TECHNIQUES FROM THE EROSION AND SEDIMENT CONTROL HANDBOOK.

THE SURFACE SHALL BE WATERED AND KEPT MOIST WITH A FINE SPRAY AS REQUIRED, WITHOUT WASHING AWAY THE SOIL. UNTIL THE GRASS IS WELL ESTABLISHED, ANY AREAS WHICH ARE NOT SATISFACTORILY COVERED SHALL BE RESEEDED, AND ALL NOXIOUS WEEDS REMOVED.

A GRASS SEED MIXTURE CONTAINING THE FOLLOWING SEED REQUIREMENTS SHALL BE:

| GENERAL COVER | PROPORTION | SEEDING RATE |
|---|------------|--------------|
| CREeping RED FESCUE | 50% | 100 LBS/ACRE |
| KENTUCKY BLUEGRASS | 50% | |
| SLOPE SEED (USED ON ALL SLOPES GREATER THAN OR EQUAL TO 3:1) | | |
| CREeping RED FESCUE | 42% | |
| TALL FESCUE | 42% | 48 LBS/ACRE |
| BIRDSFOOT TREFOIL | 16% | |

IN NO CASE SHALL THE WEED CONTENT EXCEED ONE PERCENT BY WEIGHT. ALL SEED SHALL COMPLY WITH APPLICABLE STATE AND FEDERAL SEED LAWS.

FOR TEMPORARY PROTECTION OF DISTURBED AREAS:
MULCHING AND SEEDED SHALL BE APPLIED AT THE FOLLOWING RATES:
PERENNIAL RYE: 0.7 LBS/1,000 S.F.
MULCH: 1.5 TONS/ACRE

MAINTENANCE AND PROTECTION

THE CONTRACTOR SHALL MAINTAIN ALL LOAM & SEED AREAS UNTIL FINAL ACCEPTANCE AT THE COMPLETION OF THE CONTRACT. MAINTENANCE SHALL INCLUDE WATERING, WEEDING, REMOVAL OF STONES AND OTHER FOREIGN OBJECTS OVER 1/2 INCHES IN DIAMETER WHICH MAY APPEAR AND THE FIRST TWO (2) CUTTINGS OF GRASS NO CLOSER THEN TEN (10) DAYS APART. THE FIRST CUTTING SHALL BE ACCOMPLISHED WHEN THE GRASS IS FROM 2 1/2 TO 3 INCHES HIGH. ALL BARE AND DEAD SPOTS WHICH BECOME APPARENT SHALL BE PROPERLY PREPARED, LIMED AND FERTILIZED, AND RESEEDED BY THE CONTRACTOR AT HIS EXPENSE AS MANY TIMES AS NECESSARY TO SECURE GOOD GROWTH. THE ENTIRE AREA SHALL BE MAINTAINED, WATERED AND CUT UNTIL ACCEPTANCE OF THE LAWN BY THE OWNER'S REPRESENTATIVE.

THE CONTRACTOR SHALL TAKE WHATEVER MEASURES ARE NECESSARY TO PROTECT THE GRASS WHILE IT IS DEVELOPING.

TO BE ACCEPTABLE, SEEDED AREAS SHALL CONSIST OF A UNIFORM STAND OF AT LEAST 90 PERCENT ESTABLISHED PERMANENT GRASS SPECIES, WITH UNIFORM COUNT OF AT LEAST 100 PLANTS PER SQUARE FOOT.

SEEDED AREAS WILL BE FERTILIZED AND RESEEDED AS NECESSARY TO INSURE VEGETATIVE ESTABLISHMENT.

THE SWALES WILL BE CHECKED WEEKLY AND REPAIRED WHEN NECESSARY UNTIL ADEQUATE VEGETATION IS ESTABLISHED.

THE SILT FENCE OR SILT/SOXX BARRIER SHALL BE CHECKED AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL.

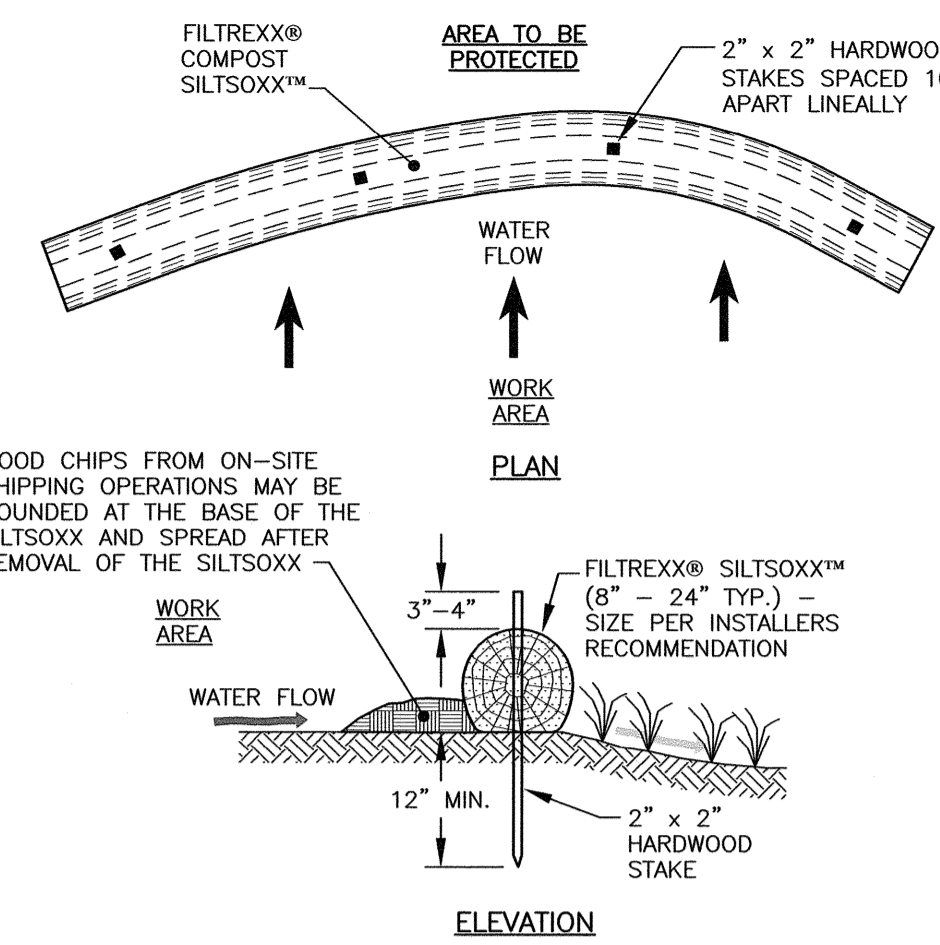
SILT FENCING AND SILT/SOXX SHALL BE REMOVED ONCE VEGETATION IS ESTABLISHED, AND DISTURBED AREAS RESULTING FROM SILT FENCE AND SILT/SOXX REMOVAL SHALL BE PERMANENTLY SEEDED.

WINTER NOTES

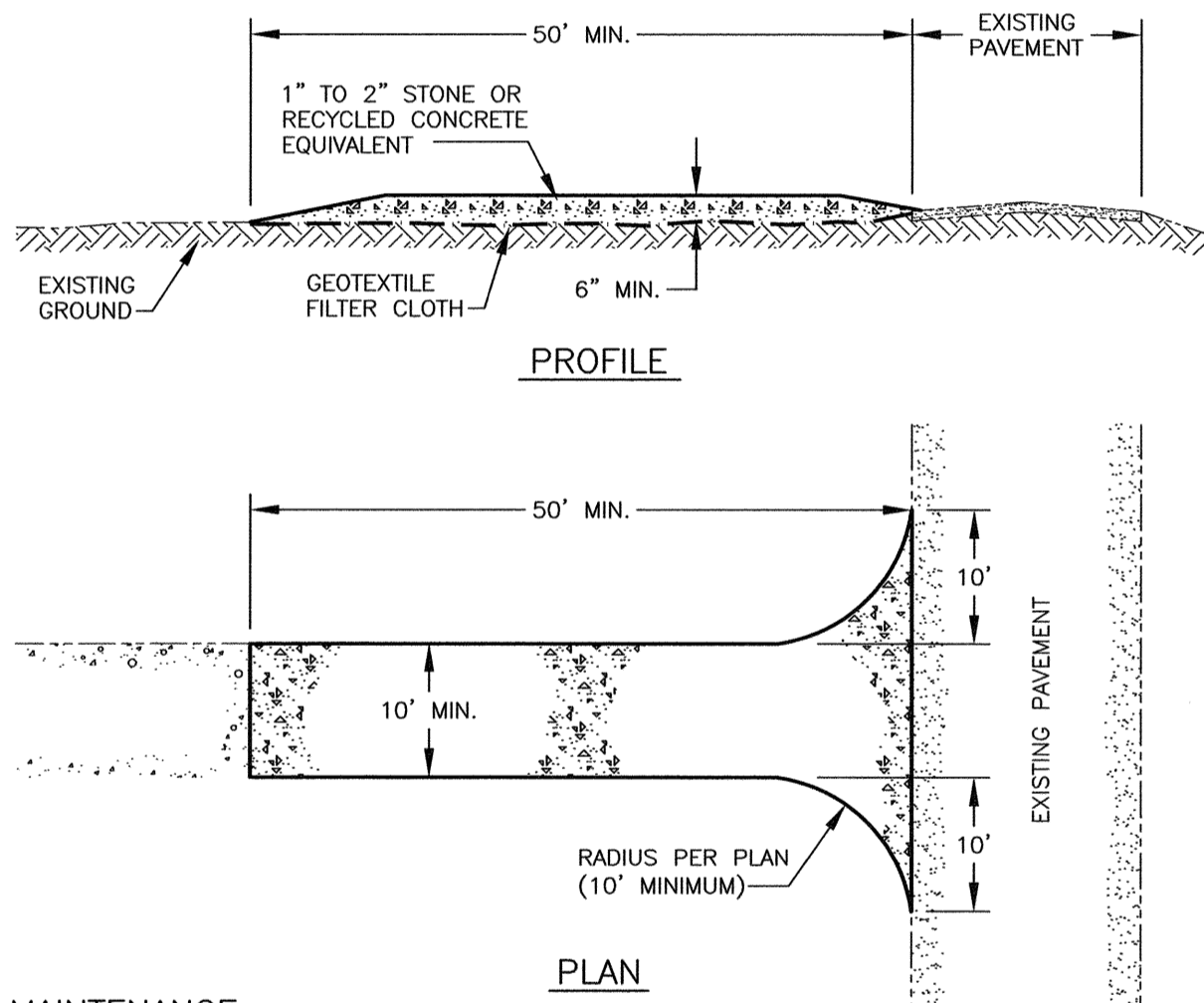
ALL PROPOSED VEGETATED AREAS WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY OCTOBER 15TH, OR WHICH ARE DISTURBED AFTER OCTOBER 15TH, SHALL BE STABILIZED BY SEEDING AND INSTALLING EROSION CONTROL BLANKETS ON SLOPES GREATER THAN 3:1, AND SEEDED AND PLACING 3 TO 4 TONS OF MULCH PER ACRE, SECURED WITH ANCHORED NETTING, ELSEWHERE. THE INSTALLATION OF EROSION CONTROL BLANKETS OR MULCH AND NETTING SHALL NOT OCCUR OVER ACCUMULATED SNOW OR ON FROZEN GROUND AND SHALL BE COMPLETED IN ADVANCE OF THAW OR SPRING MELT EVENTS.

ALL DITCHES OR SWALES WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY OCTOBER 15TH, OR WHICH ARE DISTURBED AFTER OCTOBER 15TH, SHALL BE STABILIZED TEMPORARILY WITH STONE OR EROSION CONTROL BLANKETS APPROPRIATE FOR THE DESIGN FLOW CONDITIONS.

AFTER NOVEMBER 15TH, INCOMPLETE ROAD OR PARKING SURFACES, WHERE WORK HAS STOPPED FOR THE WINTER SEASON, SHALL BE PROTECTED WITH A MINIMUM OF 3 INCHES OF CRUSHED GRAVEL PER NHDOT ITEM 304.3.



A FILTREXX® SILT/SOXX™ FILTRATION SYSTEM NTS



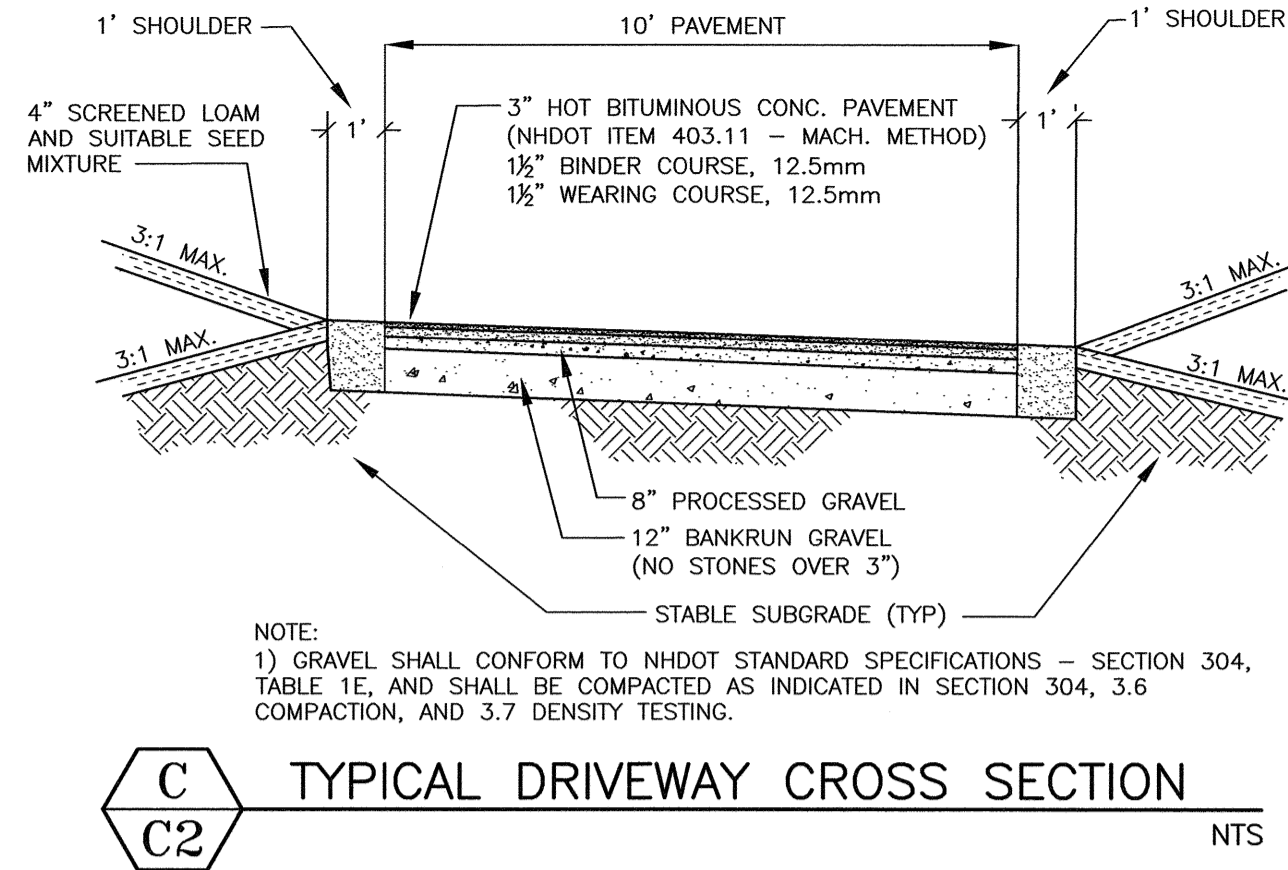
MAINTENANCE

- 1) MUD AND SOIL PARTICLES WILL EVENTUALLY CLOG THE VOIDS IN THE GRAVEL AND THE EFFECTIVENESS OF THE GRAVEL PAD WILL NOT BE SATISFACTORY. WHEN THIS OCCURS, THE PAD SHOULD BE TOP DRESSED WITH NEW STONE. COMPLETE REPLACEMENT OF THE PAD MAY BE NECESSARY WHEN THE PAD BECOMES COMPLETELY CLOGGED.
- 2) IF WASHING FACILITIES ARE USED, THE SEDIMENT TRAPS SHOULD BE CLEANED OUT AS OFTEN AS NECESSARY TO ASSURE THAT ADEQUATE TRAPPING EFFICIENCY AND STORAGE VOLUME IS AVAILABLE. VEGETATIVE FILTER STRIPS SHOULD BE MAINTAINED TO INSURE A VIGOROUS STAND OF VEGETATION AT ALL TIMES.

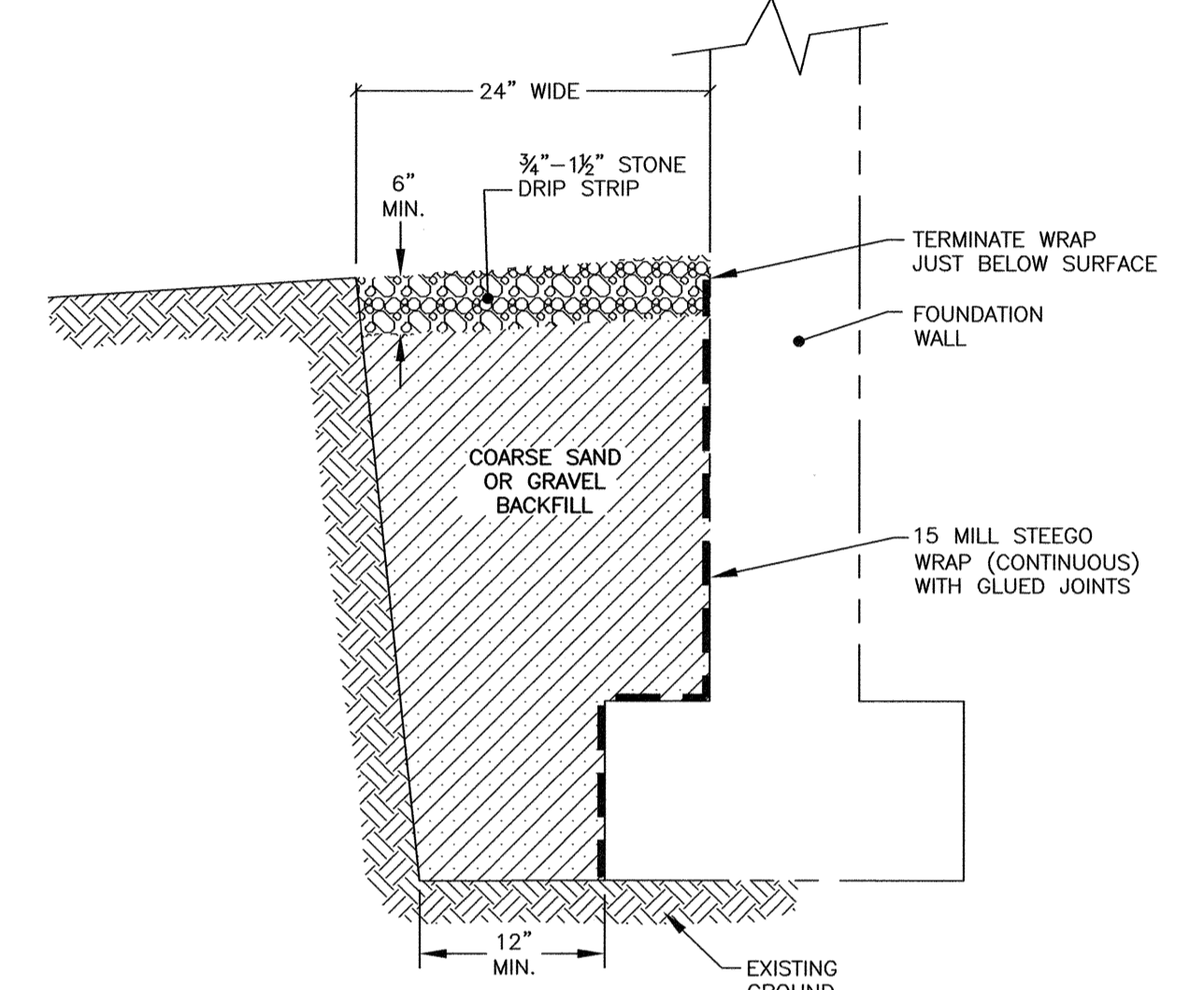
CONSTRUCTION SPECIFICATIONS

- 1) STONE FOR A STABILIZED CONSTRUCTION ENTRANCE SHALL BE 1 TO 2 INCH STONE, RECLAIMED STONE, OR RECYCLED CONCRETE EQUIVALENT.
- 2) THE LENGTH OF THE STABILIZED ENTRANCE SHALL NOT BE LESS THAN 50 FEET, EXCEPT FOR A SINGLE RESIDENTIAL LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY.
- 3) THE THICKNESS OF THE STONE FOR THE STABILIZED ENTRANCE SHALL NOT BE LESS THAN 6 INCHES.
- 4) THE WIDTH OF THE ENTRANCE SHALL NOT BE LESS THAN THE FULL WIDTH OF THE ENTRANCE WHERE INGRESS OR EGRESS OCCURS OR 10 FEET, WHICHEVER IS GREATER.
- 5) GEOTEXTILE FILTER CLOTH SHALL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING THE STONE. FILTER CLOTH IS NOT REQUIRED FOR A SINGLE FAMILY RESIDENCE LOT.
- 6) ALL SURFACE WATER THAT IS FLOWING TO OR DIVERTED TOWARD THE CONSTRUCTION ENTRANCE SHALL BE PIPED BENEATH THE ENTRANCE. IF PIPING IS IMPRACTICAL, A BERM WITH 5:1 SLOPES THAT CAN BE CROSSED BY VEHICLES MAY BE SUBSTITUTED FOR THE PIPE.
- 7) THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, WASHED, OR TRACKED ONTO PUBLIC RIGHT-OF-WAY MUST BE REMOVED PROMPTLY.
- 8) WHEELS SHALL BE CLEANED TO REMOVE MUD PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY, WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.

B C2 STABILIZED CONSTRUCTION ENTRANCE NTS

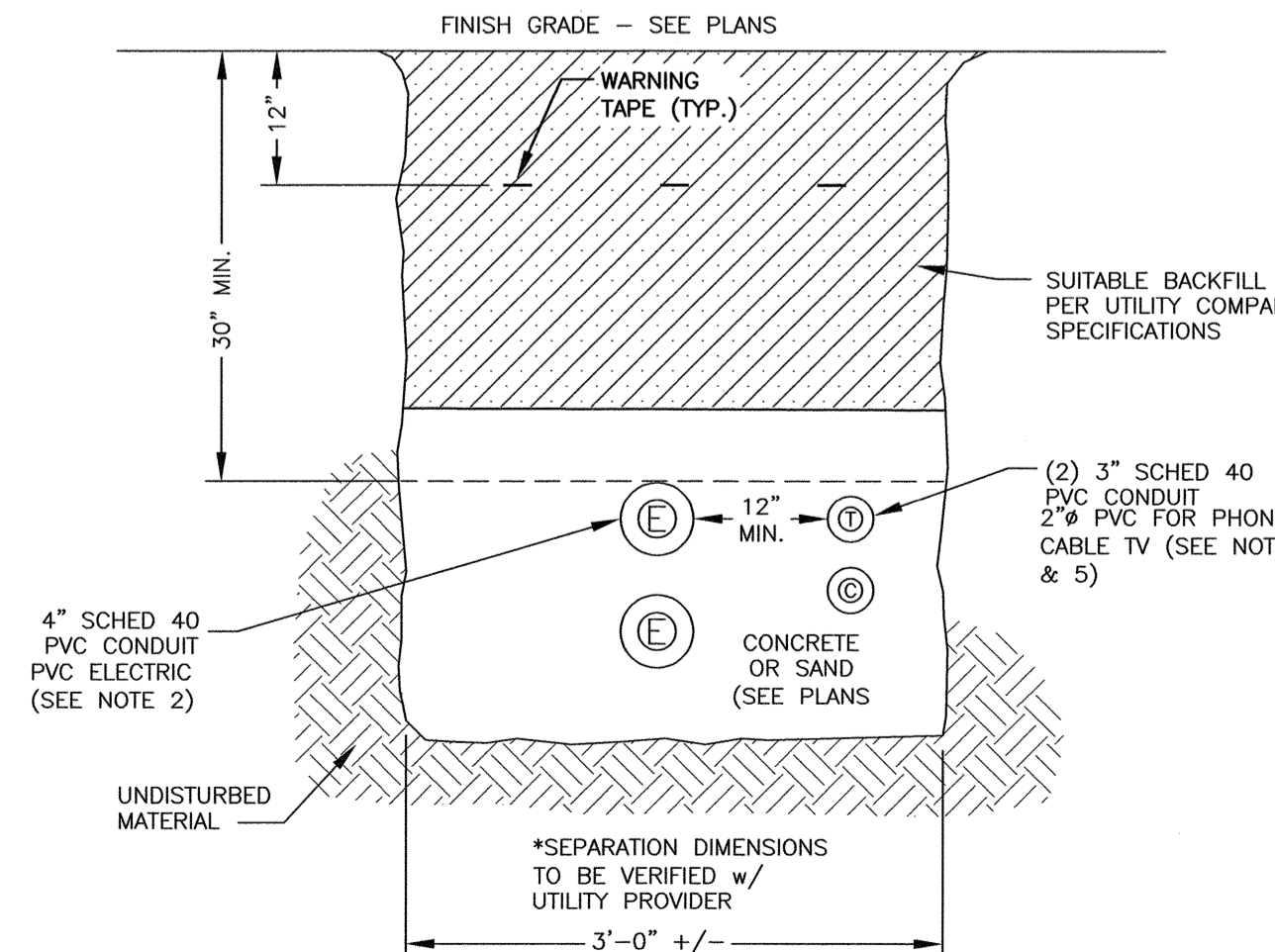


C C2 TYPICAL DRIVEWAY CROSS SECTION NTS



D C2 STONE DRIP APRON (UNDER BUILDING DRIP LINE) NTS

- NOTES:
- 1) ALL CONDUIT TO BE U.L. LISTED, SCH. 80 UNDER ALL TRAVEL WAYS, & SCHED. 40 FOR THE REMAINDER.
 - 2) NORMAL CONDUIT SIZES FOR PSNH ARE 3 INCH FOR SINGLE PHASE PRIMARY AND SECONDARY VOLTAGE CABLES, 4 INCH FOR THREE PHASE SECONDARY.
 - 3) ALL WORK TO CONFORM TO THE NATIONAL ELECTRICAL CODE (LATEST REVISION)
 - 4) INSTALL A 200# PULL ROPE FOR EACH CONDUIT
 - 5) COORDINATE DESIGN WITH UTILITY PROVIDERS. VERIFY ALL CONDUIT SPECIFICATIONS WITH UTILITY COMPANY'S PRIOR TO ANY CONSTRUCTION.



E C2 UNDERGROUND UTILITY TRENCH NTS

AMBIT ENGINEERING, INC.
A DIVISION OF HALEY WARD, INC.

200 Griffin Road, Unit 3
Portsmouth, NH 03801
603.430.9282

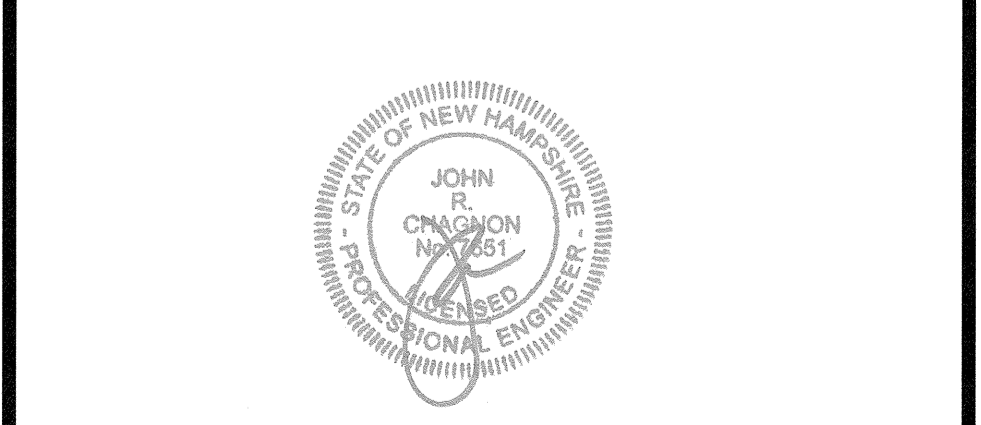
WWW.HALEYWARD.COM

NOTES:

- 1) THE CONTRACTOR SHALL NOTIFY DIG SAFE AT 1-888-DIG-SAFE (1-888-344-7233) AT LEAST 72 HOURS PRIOR TO COMMENCING ANY EXCAVATION ON PUBLIC OR PRIVATE PROPERTY WITHIN 100 FEET OF UNDERGROUND UTILITIES. THE EXCAVATOR IS RESPONSIBLE TO MAINTAIN MARKS. DIG SAFE TICKETS EXPIRE IN THIRTY DAYS.
- 2) UNDERGROUND UTILITY LOCATIONS ARE BASED UPON BEST AVAILABLE EVIDENCE AND ARE NOT FIELD VERIFIED. LOCATING AND PROTECTING ANY ABOVEGROUND OR UNDERGROUND UTILITIES IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND/OR THE OWNER. UTILITY CONFLICTS SHOULD BE REPORTED AT ONCE TO THE DESIGN ENGINEER.
- 3) CONTRACTOR SHALL INSTALL AND MAINTAIN EROSION CONTROL MEASURES IN ACCORDANCE WITH THE "NEW HAMPSHIRE STORMWATER MANUAL, VOLUME 3, EROSION AND SEDIMENT CONTROLS DURING CONSTRUCTION. (NHDES DECEMBER 2008).

PROPOSED RESIDENCE LONGMARSH ROAD DURHAM, N.H.

| | | |
|-----------|--------------------|---------|
| NO. | ISSUED FOR COMMENT | 3/17/23 |
| | DESCRIPTION | DATE |
| REVISIONS | | |



SCALE: AS NOTED MARCH 2023

EROSION CONTROL NOTES & DETAILS D1