

PROPOSED SITE PLAN FOR 2A TACTICAL, LLC

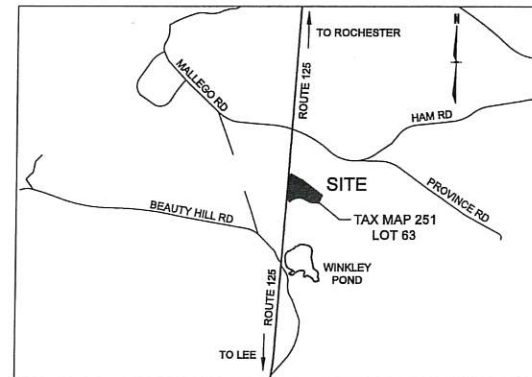


TAX MAP 251, LOT 63

PROJECT LOCATION:

**ROUTE 125 & BUMFORD ROAD,
BARRINGTON, NH 03825**

STRAFFORD CO.



PROFESSIONAL CONSULTANTS LIST

SURVEYOR:	NEW HAMPSHIRE LAND CONSULTANTS, PLLC. 683C FIRST NH TURNPIKE (RT.4) NORTHWOOD, NH 03261 PH: (603) 942-9220		DEVELOPER:	2A TACTICAL, LLC 99 TOLAND ROAD, BARRINGTON, NH 03825
WETLAND SCIENTIST:	FRAGGLE ROCK ENVIRONMENTAL, DAMON E. BURT, CWS, CPESC, 38 GARLAND ROAD, STRAFFORD, NH 03884 PH: (603) 969-5574		GEOTECH:	S.W. COLE ENGINEERING, INC. TYLER DEMERS, PE 10 CENTRE ROAD, SOMERSWORTH NH 03878 PH: (603) 692-0088
BUILDER:	UNIFIED BUILDERS, INC. 688 CALEF HIGHWAY, BARRINGTON, NH 03825		STRUCTURAL ENGINEERS:	TEAM ENGINEERING NANCY NICHOLS, PE 82 PALOMINO LANE, SUITE 503 BEDFORD NH, 03110, PH: (603)-497-3137
PROFESSIONAL ENGINEER:	BERNIE TEMPLE, PE, CPESC P.O. BOX 7 GILMINGTON IRON WORKS, NH 03837 PH: (603) 630-1008		TRAFFIC:	STEPHEN PERNAW & COMPANY, INC. STEPHEN PERNAW, PE 78 BERRY ROAD, LOUDON, NH 03307 PH: (603) 731-8500

SHEET INDEX

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PGP	5 OF 18	GRADING, DRAINAGE & EROSION CONTROL PLAN
PGP	6 OF 18	DRIVEWAY & BUMFORD ROAD PLAN & PROFILES
PUTP	7 OF 18	UTILITY PLAN
PLSC	8 OF 18	LANDSCAPING PLAN
PLTP	9 OF 18	LIGHTING PLAN
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VPAP-2	11 OF 18	VEHICLE PEDESTRIAN ACCESS (BUMFORD ROAD)
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DET-7	18 OF 18	EROSION CONTROL NOTES & DETAILS - 2

- NOTES:**
- THE PURPOSE OF THIS PLAN IS TO SHOW A PROPOSED COMMERCIAL RETAIL, MANUFACTURING AND EDUCATIONAL BUILDING FOR 2A TACTICAL, LLC.
 - THE PROPERTY IS DESIGNATED AS TAX MAP 251, LOT 63.
 - THE AREA OF THE EXISTING LOT 63 IS 8.60 ACRES (374,448 SQFT.)
 - THE ZONING DESIGNATION FOR THE PROPERTY IS REGIONAL COMMERCIAL DISTRICT. (RC)
 - DIMENSIONAL REQUIREMENTS PROVIDED FOR ZONE (RC) DISTRICT:
MIN. ROAD FRONTAGE =200'
MIN. LOT SIZE =40,000 SF (0.92 ACRES)
MIN. ROAD SETBACK =75'
MIN. SIDE/REAR SETBACK =30'
WETLAND/WATERBODY SETBACK =50'
PRIME WETLANDS =100'
MAXIMUM STRUCTURE HEIGHT =40'
SEPTIC SETBACK =50'/75' HYDRIC SOILS
OVERLAY DISTRICTS: (WCO, SDO, GDO.)
 - THE EXISTING USE OF TM 251 LOT 63 IS VACANT LAND. PROPOSED USE IS A PROPOSED COMMERCIAL RETAIL, MANUFACTURING AND EDUCATIONAL BUILDING FOR 2A TACTICAL, INC.
 - HOURS OF OPERATION: 10 AM TO 7:00 PM MON.-THURS.
10 AM TO 8:00 PM FRI.-SAT.
EMPLOYEES HOURS: 9 AM TO 7:30 PM MON.-THURS.
9 AM TO 8:30 PM FRI.-SAT.
RETAIL: 10 AM TO 7 PM MON.-THURS
10 AM TO 8 PM FRI.-SAT.
#OF EMPLOYEES: 6-FULL TIME
8-PART TIME
 - MSDS (MATERIAL SAFETY DATA SHEETS) WILL BE LOCATED IN THE WAREHOUSE, AND OPERATIONS MANAGEMENT OFFICE LOCATED ON THE 2ND FLOOR.
 - PARKING REQUIREMENTS: STANDARD PARKING SIZE IS 18' x 9' W. THERE WILL BE NO ON-STREET PARKING. SEE SITE PLAN FOR SPECIFIC REQUIREMENTS. SPECIAL EVENT NOTES: ADDITIONAL PARKING AND TRANSPORTATION WILL BE PROVIDED AT BARRINGTON SAND AND GRAVEL PIT OFF OF BUMFORD ROAD.
 - % IMPERVIOUS COVERAGE: 43,042 SF IMPERVIOUS, (11.5%).
 - SEWER TO BE PROVIDED BY ON-SITE SEPTIC SYSTEMS.
 - WATER TO BE PROVIDED BY ON-SITE WELLS.
 - NO REQUESTED ZONING VARIANCES.
 - THE FEMA MAP NUMBER FOR THIS SITE IS 33017C0305E, EFFECTIVE DATE: SEPTEMBER 30, 2015. AREA IS WITHIN ZONE X. AREA TO BE DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE OF FLOODPLAIN.
 - LIST OF REQUIRED PERMITS AND PERMIT APPROVAL NUMBERS.
NHDES SEPTIC APPROVAL NO. PENDING
NHDOT DRIVEWAY APPROVAL PENDING
 - APPROVED PLANNING BOARD WAIVERS:
1. ARTICLE 3 (SITE PLAN SPECIFICATIONS & DOCUMENTS) SECTION 3.2.7.
2. ARTICLE 4 (DESIGN AND CONSTRUCTION STANDARDS) SECTION 4.14.1 (SEE SITE PLAN FOR COMPLETE WAIVER REQUESTS).
 - CONSTRUCTION TIMETABLE: FROM SPRING TO FALL OF 2022.
 - IF DURING CONSTRUCTION, IT BECOMES APPARENT THAT DEFICIENCIES EXIST. IN THE APPROVED DESIGN DRAWINGS, THE OWNER SHALL BE REQUIRED TO CORRECT THE DEFICIENCIES TO MEET THE REQUIREMENTS OF THE REGULATIONS AT NO EXPENSE TO THE TOWN.
 - REQUIRED EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO ANY DISTURBANCE OF THE SITE'S SURFACE AREA AND SHALL BE MAINTAINED THROUGH THE COMPLETION OF ALL CONSTRUCTION ACTIVITIES. IF DURING CONSTRUCTION, IT BECOMES APPARENT THAT ADDITIONAL EROSION CONTROL MEASURES ARE REQUIRED TO STOP ANY EROSION ON THE CONSTRUCTION SITE DUE TO ACTUAL SITE CONDITIONS, THE OWNER SHALL BE REQUIRED TO INSTALL THE NECESSARY EROSION PROTECTION AT NO EXPENSE TO THE TOWN.
 - ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL CONFORM TO TOWN OF BARRINGTON SITE PLAN REGULATIONS AND THE LATEST EDITION OF THE NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS ROAD AND BRIDGE CONSTRUCTION", LATEST EDITION.
 - IN ACCORDANCE WITH TOWN REGULATIONS AND RSA 676:13, ALL IMPROVEMENTS SPECIFIED ON THESE SITE PLANS SHALL BE CONSTRUCTED AND COMPLETED INSPECTED AND APPROVED BY THE TOWN OF BARRINGTON PRIOR TO ISSUANCE OF A CERTIFICATE OF OCCUPANCY.
 - IN ACCORDANCE WITH TOWN REGULATIONS AND RSA 676:12, ALL OFF-SITE IMPROVEMENTS SPECIFIED ON THESE PLANS SHALL BE CONSTRUCTED, COMPLETED, INSPECTED AND APPROVED BY THE TOWN OF BARRINGTON (AND/OR THE NHDOT, IF APPLICABLE) PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY.
 - THE CURRENT OWNER FOR LOT 63: STEVEN & PAMELA LENZI, TRS REV. TRUST, 34 YOUNG ROAD, BARRINGTON, NH 03825, BK 4502, PG 1000
 - RIGHT OF WAY WIDTH DETERMINED BY SURVEY, FIELD INVESTIGATION, RECORDED DEEDS AND PLANS OF REFERENCE.
 - ABUTTING PROPERTY INFORMATION PROVIDED BY A COMBINATION OF ON-LINE TAX MAP DATA AND DATA PROVIDED BY gronitview.unh.edu.
 - ELEVATIONS AND COORDINATES ARE BASED ON STATE PLANE COORDINATES FROM A SOLUTION GENERATED BY NGS OPUS ON MARCH 30, 2021 FROM DATA COLLECTED BY THIS OFFICE ON APRIL 1, 2021. THE OPUS SOLUTION IS BASED ON THE NAD 83 (2011) REF. FRAME AND THE NAVD 88.
 - NRCS SOILS DATA:
HcB-HINKLEY LOAMY, 0 TO 3 PERCENT SLOPES
HcC-HINKLEY LOAMY, 3 TO 8 PERCENT SLOPES
SwA-SCANTIC SILT LOAM, 0 TO 3 PERCENT SLOPES
Mp-FREETOWN AND SWANSEA MUCKY PEATS, 0 TO 2 PERCENT SLOPES

PLANNING BOARD APPROVAL BLOCK

OWNER'S SIGNATURE DATE



INITIAL PLAN SET SUBMISSION DATE

JULY 13, 2021
Latest revision date:
DECEMBER 15, 2021



DEC 15 2021

OWNER:

STEVEN & PAMELA LENZI
TRS REV. TRUST
304 YOUNG ROAD,
BARRINGTON NH, 03825
BK 4502 PG 1000

APPLICANT:

2A TACTICAL, LLC
99 TOLAND ROAD,
BARRINGTON NH, 03825

AGENCY APPROVALS

NHDES SEPTIC : PENDING
NHDOT DRIVEWAY : PENDING

THE LOCATION OF ANY UTILITY INFORMATION SHOWN ON THIS PLAN IS APPROXIMATE. NEW HAMPSHIRE LAND CONSULTANTS, PLLC. MAKES NO CLAIM TO THE ACCURACY OR COMPLETENESS OF UTILITIES SHOWN. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ANY UTILITIES WHETHER THEY BE ABOVE OR BELOW GROUND. PRIOR TO ANY EXCAVATION ON SITE THE CONTRACTOR SHALL CONTACT DIG SAFE AT 1-888-DIG-SAFE (1-888-344-7233).

REVISIONS			
NO.	DATE	DESCRIPTION	BY
1	8/17/2021	REVISED PER TOWN DESIGN REVIEW	TDB
2	9/14/2021	SITE PLAN SUBMITTAL	TDB
3	12/15/2021	REVISIONS OF SITE & BUMFORD ROAD	TDB

LAND USE OFFICE

N.H. LAND Consultants
SURVEYING • LAND PLANNING • REAL ESTATE
A VETERAN OWNED COMPANY
683C FIRST NH TURNPIKE, NORTHWOOD, NH 03261 PH. 603-942-9220 WEBSITE: NH.LANDCONSULTANTS.COM

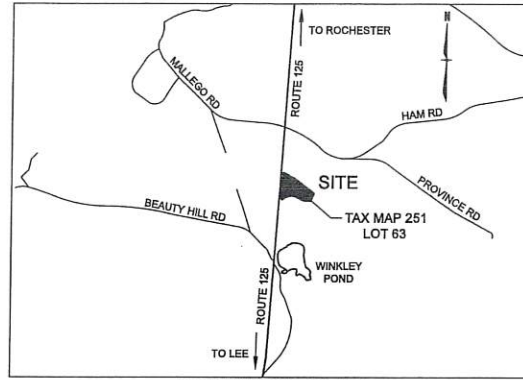
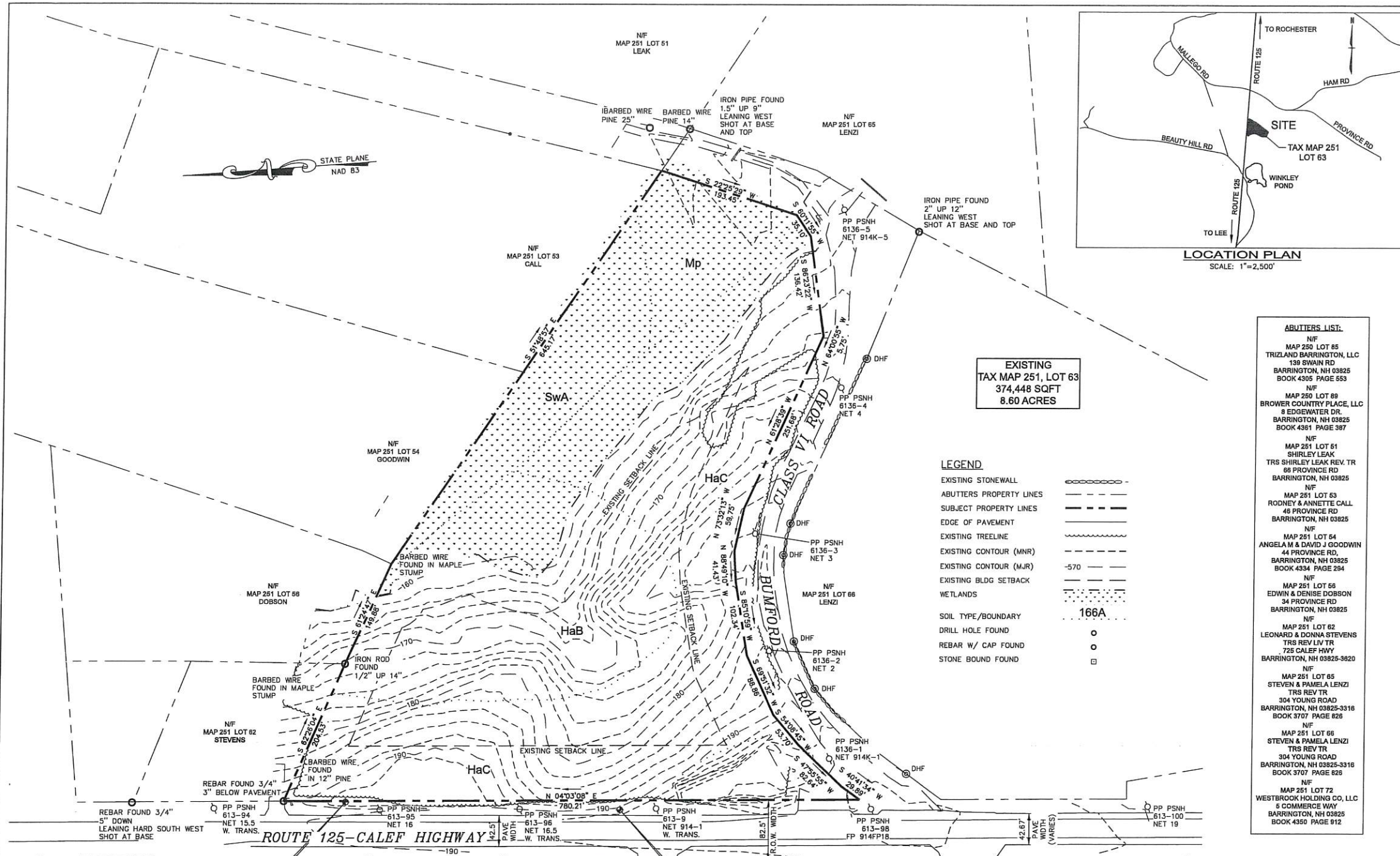
Designer of Subsurface Disposal Systems
Scott R. Frankiewicz, No. 1348

COVER SHEET
TAX MAP 251 LOT 63
2A TACTICAL, LLC
99 TOLAND ROAD, BARRINGTON, NH 03825
OWNED BY
STEVEN & PAMELA LENZI TRS REV TRUST
304 YOUNG ROAD, BARRINGTON, NH 03825
BOOK 4502 PAGE 1000

STRAFFORD CO.
JOB NO: 400.00
DATE: JULY 13, 2021

CVR

SHT. 1 of 18



**EXISTING
TAX MAP 251, LOT 63
374,448 SQFT
8.60 ACRES**

LEGEND

- EXISTING STONEWALL
- ABUTTERS PROPERTY LINES
- SUBJECT PROPERTY LINES
- EDGE OF PAVEMENT
- EXISTING TREELINE
- EXISTING CONTOUR (MNR)
- EXISTING CONTOUR (MJR)
- EXISTING BLDG SETBACK
- WETLANDS
- SOIL TYPE/BOUNDARY
- DRILL HOLE FOUND
- REBAR W/ CAP FOUND
- STONE BOUND FOUND

ABUTTERS LIST

- NF MAP 250 LOT 85 TRIZLAND BARRINGTON, LLC 139 SWAIN RD BARRINGTON, NH 03825 BOOK 4355 PAGE 553
- NF MAP 250 LOT 89 BROWER COUNTRY PLACE, LLC 8 EDGEWATER DR BARRINGTON, NH 03825 BOOK 4381 PAGE 387
- NF MAP 251 LOT 51 SHIRLEY LEAK TRS SHIRLEY LEAK REV. TR 66 PROVINCE RD BARRINGTON, NH 03825
- NF MAP 251 LOT 63 RODNEY & ANNETTE CALL 46 PROVINCE RD BARRINGTON, NH 03825
- NF MAP 251 LOT 54 ANGELA & DAVID J GOODWIN 44 PROVINCE RD, BARRINGTON, NH 03825 BOOK 4334 PAGE 294
- NF MAP 251 LOT 66 EDWIN & DENISE DOBSON 34 PROVINCE RD BARRINGTON, NH 03825
- NF MAP 251 LOT 62 LEONARD & DONNA STEVENS TRS REV LIV TR 725 CALEF HWY BARRINGTON, NH 03825-3620
- NF MAP 251 LOT 65 STEVEN & PAMELA LENZI TRS REV TR 304 YOUNG ROAD BARRINGTON, NH 03825-3316 BOOK 3707 PAGE 826
- NF MAP 251 LOT 66 STEVEN & PAMELA LENZI TRS REV TR 304 YOUNG ROAD BARRINGTON, NH 03825-3316 BOOK 3707 PAGE 826
- NF MAP 251 LOT 72 WESTBROOK HOLDING CO, LLC 6 COMMERCE WAY BARRINGTON, NH 03825 BOOK 4350 PAGE 912

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18. REQUIRED EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO ANY DISTURBANCE OF THE SITE'S SURFACE AREA AND SHALL BE MAINTAINED THROUGH THE COMPLETION OF ALL CONSTRUCTION ACTIVITIES. IF DURING CONSTRUCTION, IT BECOMES APPARENT THAT ADDITIONAL EROSION CONTROL MEASURES ARE REQUIRED TO STOP ANY EROSION ON THE CONSTRUCTION SITE DUE TO ACTUAL SITE CONDITIONS, THE OWNER SHALL BE REQUIRED TO INSTALL THE NECESSARY EROSION PROTECTION AT NO EXPENSE TO THE TOWN.
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22. THE CURRENT OWNER FOR LOT 63: STEVEN & PAMELA LENZI, TRS REV. TRUST, 304 YOUNG ROAD, BARRINGTON, NH 03825, BK 4502, PG 1000
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Hb-HINKLEY LOAMY, 0 TO 3 PERCENT SLOPES
Hc-HINKLEY LOAMY, 3 TO 8 PERCENT SLOPES
SwA-SCANTIC SILT LOAM, 0 TO 3 PERCENT SLOPES
Mp-FREETOWN AND SWANSEA MUCKY PEATS, 0 TO 2 PERCENT SLOPES

PLAN REFERENCES:

1. S.C.R.D. PLAN #22A-180 (SUBJECT LOT), RECORDED SEPT. 13, 1982, TITLED: "PLAN OF LAND, VERNON T. SWAIN, BARRINGTON, NH.", DATED: JUNE 1982, SCALE: 1"=100', PREPARED BY: FREDERICK E. DREW ASSOCIATES.
2. S.C.R.D. PLAN #004371 RECORDED APRIL 3, 1990, TITLED: "BARRINGTON COMMERCE CENTER, LIGHT INDUSTRIAL & COMMERCIAL SUBDIVISION", PREPARED FOR: SAMUEL CIOTTI & CHRISTOPHER SHERIDAN, BARRINGTON, NH 03825, SCALE: 1"=100', DATED: JUNE 1, 1989, PREPARED BY: HENRY AND BERLIND ASSOCIATES, INC., APPROVED BY BARRINGTON PLANNING BOARD ON FEB. 28, 1990.
3. S.C.R.D. PLAN #000417, RECORDED JAN 10, 1994, TITLED: "PLAN OF LAND EVANGELINE G. ROTHWELL, BARRINGTON NH.", SCALE: 1"=50', DATED: 1994, SCALE: 1"=50', PREPARED BY: FREDERICK E. DREW ASSOCIATES, BARRINGTON, NH.
4. S.C.R.D. PLAN #011693, RECORDED JULY, 1998, TITLED: "SUBDIVISION PLAN FOR DOUGLAS M. & PATRICIA A. CALL, BARRINGTON, NH, PREPARED BY: ORVIS DREW LLC., SCALE: 1"=50', DATED: APRIL 1998, APPROVED BY BARRINGTON PLANNING BOARD ON 7/7/98.
5. S.C.R.D. PLAN #031605, RECORDED SEPTEMBER 9, 2003, TITLED: "LOT LINE ADJUSTMENT PLAN PREPARED FOR: ANTHY E. MOUZOURAKIS & PAULINE S. SWAIN," PREPARED BY: DAVID W. VINCENT, LLS, BARRINGTON, NH, DATED: MAY 21, 2003, SCALE: 1"=50', APPROVED BY BARRINGTON PLANNING BOARD ON 8/3/2003.

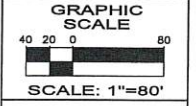
RECEIVED
DEC 15 2021
LAND USE OFFICE

NO. 945
SCOTT R.
FRANKIEWCZ

I CERTIFY THAT THIS PLAN IS BASED UPON THE PLAN REFERENCES AND A FIELD SURVEY CONDUCTED ON THE GROUND IN SPRING OF 2021, MEETING THE MINIMUM REQUIREMENTS FOR ACCURACY, 1:10,000 AND COMPLETENESS PER THE STATE OF NEW HAMPSHIRE AND THE TOWN OF BARRINGTON, NH.

SCOTT R. FRANKIEWCZ, LLS DATE:

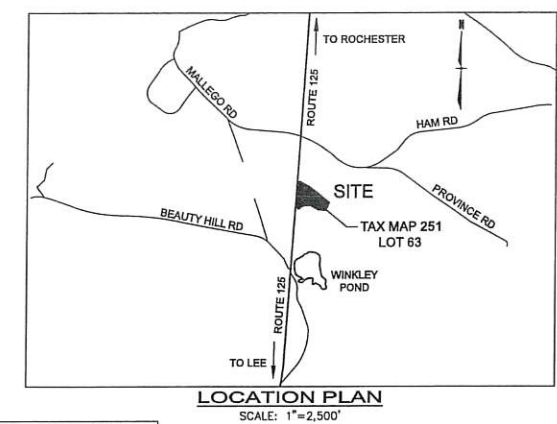
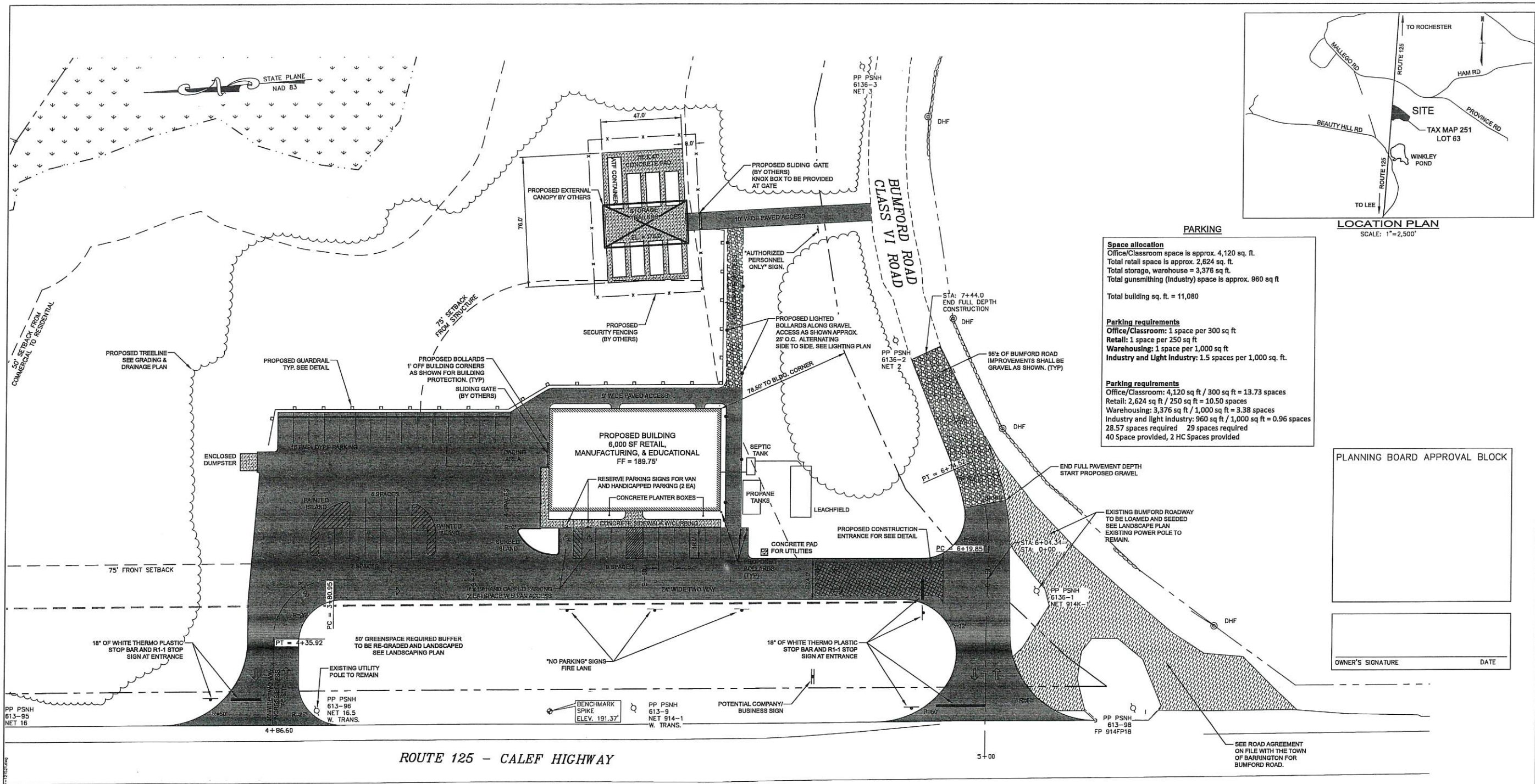
REVISIONS		
NO.	DATE	DESCRIPTION
1	8/7/2021	REVISED PER TOWN DESIGN REVIEW
2	9/14/2021	SITE PLAN SUBMITTAL
3	12/15/2021	REVISIONS OF SITE & BUMFORD ROAD



N.H. LAND Consultants
SURVEYING-LAND PLANNING-REAL ESTATE
A Veteran Owned Company

EXISTING CONDITIONS PLAN
TAX MAP 251 LOT 63
2A TACTICAL, LLC
99 TOLAND ROAD, BARRINGTON, NH 03825
OWNED BY
STEVEN & PAMELA LENZI
TRS REV TRUST
304 YOUNG ROAD, BARRINGTON, NH 03825
BOOK 4502 PAGE 1000

STRAFFORD CO.
JOB NO: 400.00
DATE: JULY 13, 2021
ECP
SHT. 2 of 18



PARKING

Space allocation
 Office/Classroom space is approx. 4,120 sq. ft.
 Total retail space is approx. 2,624 sq. ft.
 Total storage, warehouse = 3,376 sq. ft.
 Total gunsmithing (Industry) space is approx. 960 sq ft

Total building sq. ft. = 11,080

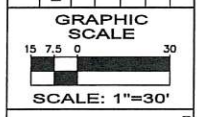
Parking requirements
 Office/Classroom: 1 space per 300 sq ft
 Retail: 1 space per 250 sq ft
 Warehousing: 1 space per 1,000 sq ft
 Industry and Light Industry: 1.5 spaces per 1,000 sq. ft.

Parking requirements
 Office/Classroom: 4,120 sq ft / 300 sq ft = 13.73 spaces
 Retail: 2,624 sq ft / 250 sq ft = 10.50 spaces
 Warehousing: 3,376 sq ft / 1,000 sq ft = 3.38 spaces
 Industry and light industry: 960 sq ft / 1,000 sq ft = 0.96 spaces
 28.57 spaces required 29 spaces required
 40 Space provided, 2 HC Spaces provided

DESIGNER
 of
 Subsurface Disposal
 Systems

 Scott R. Frankiewicz
 No. 1348
 Department of Environmental Services
 NEW HAMPSHIRE

REVISIONS	
NO.	DESCRIPTION
1	REVISED PER TOWN DESIGN REVIEW
2	SITE PLAN SUBMITTAL
3	REVISIONS OF SITE & BUMFORD ROAD



PLANNING BOARD APPROVAL BLOCK

OWNER'S SIGNATURE _____ DATE _____

N.H. LAND Consultants
 SURVEYING • LAND PLANNING • REAL ESTATE
 A Veteran Owned Company

SITE LAYOUT PLAN
 TAX MAP 251 LOT 63
2A TACTICAL, LLC
 99 TOLAND ROAD, BARRINGTON, NH 03825
 OWNED BY
STEVEN & PAMELA LENZI
TRS REV TRUST
 304 YOUNG ROAD, BARRINGTON, NH 03825
 BOOK 4502 PAGE 1000

- LEGEND**
- EXISTING STONEWALL
 - ABUTTERS PROPERTY LINES
 - SUBJECT PROPERTY LINES
 - EDGE OF PAVEMENT
 - EXISTING TREELINE
 - EXISTING BLDG SETBACK
 - WETLANDS
 - DRILL HOLE FOUND
 - REBAR W/ CAP FOUND
 - STONE BOUND FOUND
 - PROPOSED SIGN

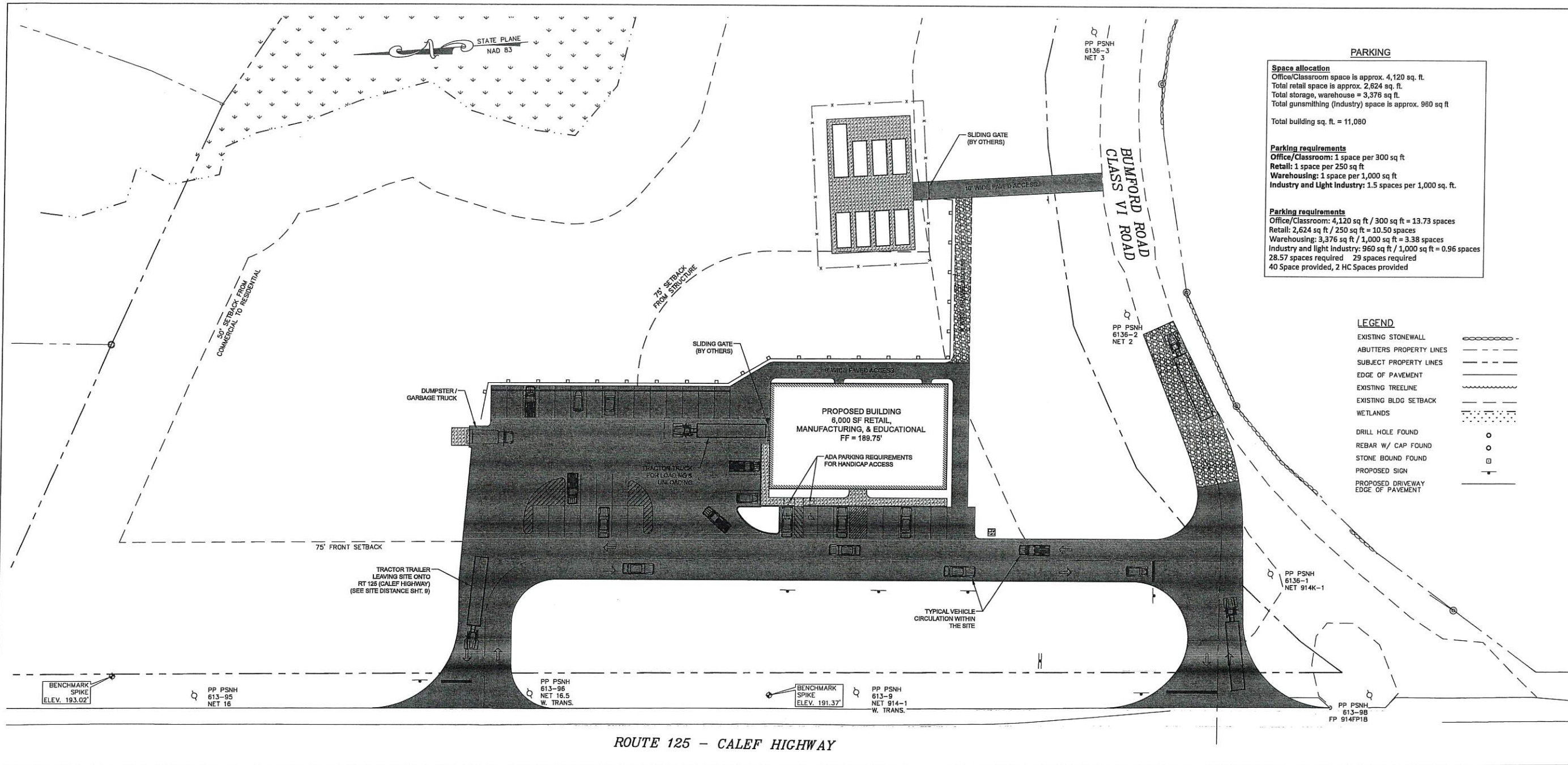
REBAR FOUND
 5/8" UP 1/2"
 WITH CAP "LAND TECH"
 WITH WITNESS REBAR
 FOUND 5/8" UP 15"

SITE PLAN WAIVER(S) APPROVED:

- Article 3 (Site Plan Specifications & Documents) Section 3.2.7.
 LEGENDS ARE SHOWN 1-8 AND WE ARE REQUESTING A WAIVER FROM SHOWING A LEGEND ON SHEETS 9-16. SHEETS 9-16 ARE VARIOUS DETAILS SHEETS.
- Article 4 (Design and Construction standards) Section 4.14.1.
 TO WAIVER THE REQUIREMENT OF A FULL TRAFFIC IMPACT ANALYSIS AND ALLOW THE APPLICANT TO PROVIDE A SHORT TRAFFIC IMPACT ANALYSIS. ALTHOUGH THE PROPOSED PROJECT MEETS EXCEEDS THE 10,000 SQFT., IT DOESN'T MEET OR EXCEED THE 1,000 AVERAGE DAILY PEAK HOUR TRIPS.

RECEIVED
 DEC 15 2021
 LAND USE

STRAFFORD CO.
 JOB NO: 400.00
 DATE: JULY 13, 2021
PSP
 SHT. 3 of 18



PARKING

Space allocation
Office/Classroom space is approx. 4,120 sq. ft.
Total retail space is approx. 2,624 sq. ft.
Total storage, warehouse = 3,376 sq. ft.
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Total building sq. ft. = 11,080

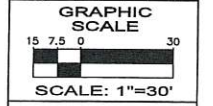
Parking requirements
Office/Classroom: 1 space per 300 sq ft
Retail: 1 space per 250 sq ft
Warehousing: 1 space per 1,000 sq ft
Industry and Light Industry: 1.5 spaces per 1,000 sq. ft.

Parking requirements
Office/Classroom: 4,120 sq ft / 300 sq ft = 13.73 spaces
Retail: 2,624 sq ft / 250 sq ft = 10.50 spaces
Warehousing: 3,376 sq ft / 1,000 sq ft = 3.38 spaces
Industry and light industry: 960 sq ft / 1,000 sq ft = 0.96 spaces
28.57 spaces required 29 spaces required
40 Space provided, 2 HC Spaces provided

- LEGEND**
- EXISTING STONEWALL
 - ABUTTERS PROPERTY LINES
 - SUBJECT PROPERTY LINES
 - EDGE OF PAVEMENT
 - EXISTING TREELINE
 - EXISTING BLDG SETBACK
 - WETLANDS
 - DRILL HOLE FOUND
 - REBAR W/ CAP FOUND
 - STONE BOUND FOUND
 - PROPOSED SIGN
 - PROPOSED DRIVEWAY
 - EDGE OF PAVEMENT

REVISIONS

NO.	DATE	DESCRIPTION	BY
1	8/17/2021	REVISED PER TOWN DESIGN REVIEW	TDB
2	9/14/2021	SITE PLAN SUBMITTAL	TDB
3	12/15/2021	REVISIONS OF SITE & BUMFORD ROAD	TDB



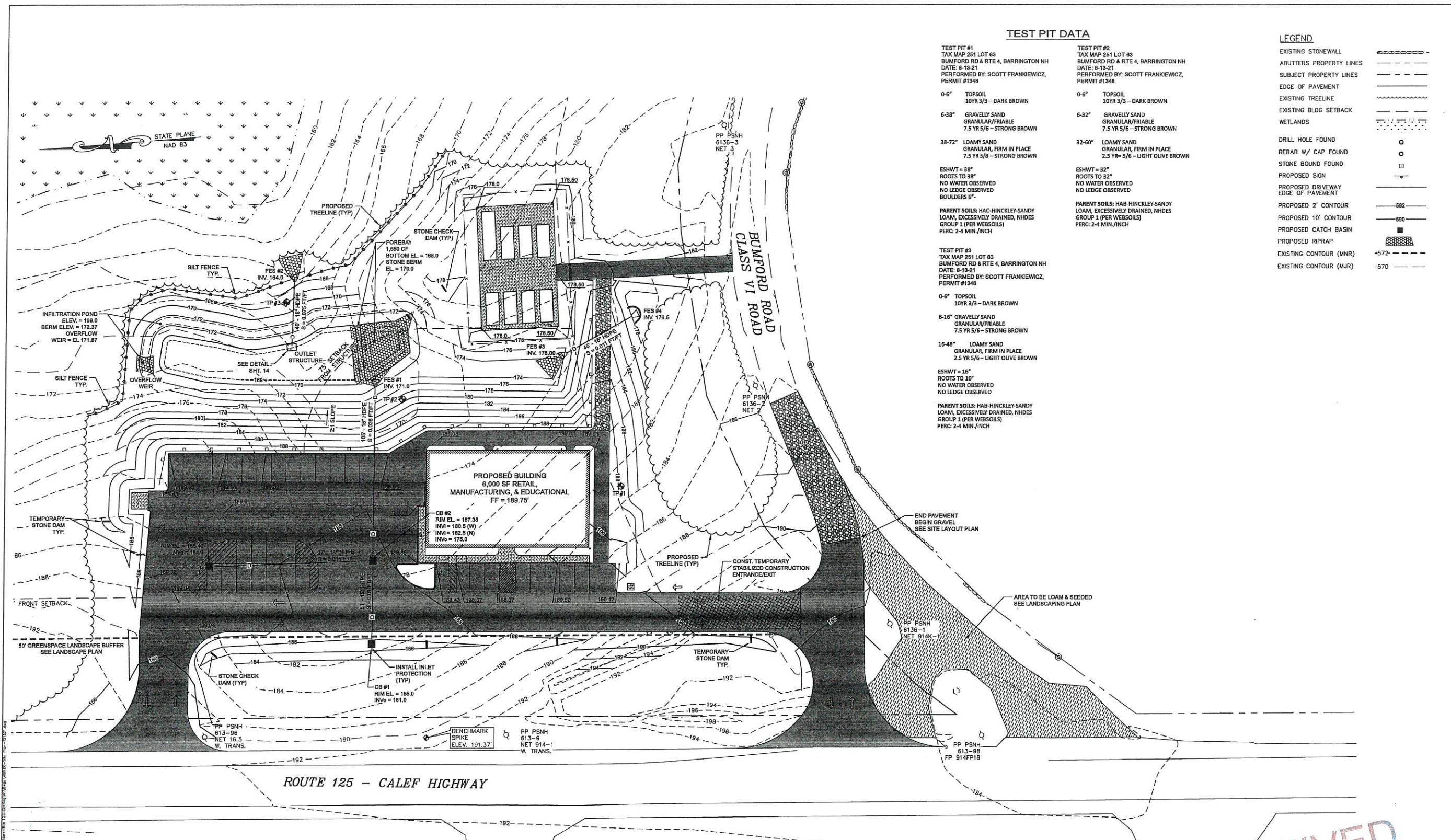
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PH. 603-942-9220
WEBSITE: NHLANDCONSULTANTS.COM

PARKING & CIRCULATION PLAN
TAX MAP 251 LOT 63
2A TACTICAL, LLC
99 TOLAND ROAD, BARRINGTON, NH 03625
OWNED BY
STEVEN & PAMELA LENZI
TRS REV TRUST
304 YOUNG ROAD, BARRINGTON, NH 03625
BOOK 4502 PAGE 1000

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JOB NO: 400.00
DATE: JULY 13, 2021
PCP
SHT. 4 of 18



TEST PIT DATA

TEST PIT #1
 TAX MAP 251 LOT 63
 BUMFORD RD & RTE 4, BARRINGTON NH
 DATE: 8-13-21
 PERFORMED BY: SCOTT FRANKIEWICZ,
 PERMIT #1348

0-6" TOPSOIL
 10YR 3/3 - DARK BROWN

6-38" GRAVELLY SAND
 GRANULAR/FRIABLE
 7.5 YR 5/6 - STRONG BROWN

38-72" LOAMY SAND
 GRANULAR, FIRM IN PLACE
 7.5 YR 5/8 - STRONG BROWN

ESHWT = 38"
 ROOTS TO 38"
 NO WATER OBSERVED
 NO LEDGE OBSERVED
 BOULDERS 6"

PARENT SOILS: HAC-HINCKLEY-SANDY
 LOAM, EXCESSIVELY DRAINED, NHDES
 GROUP 1 (PER WEBSOILS)
 PERC: 2-4 MIN./INCH

TEST PIT #2
 TAX MAP 251 LOT 63
 BUMFORD RD & RTE 4, BARRINGTON NH
 DATE: 8-13-21
 PERFORMED BY: SCOTT FRANKIEWICZ,
 PERMIT #1348

0-6" TOPSOIL
 10YR 3/3 - DARK BROWN

6-32" GRAVELLY SAND
 GRANULAR/FRIABLE
 7.5 YR 5/6 - STRONG BROWN

32-60" LOAMY SAND
 GRANULAR, FIRM IN PLACE
 2.5 YR 5/6 - LIGHT OLIVE BROWN

ESHWT = 32"
 ROOTS TO 32"
 NO WATER OBSERVED
 NO LEDGE OBSERVED

PARENT SOILS: HAB-HINCKLEY-SANDY
 LOAM, EXCESSIVELY DRAINED, NHDES
 GROUP 1 (PER WEBSOILS)
 PERC: 2-4 MIN./INCH

TEST PIT #3
 TAX MAP 251 LOT 63
 BUMFORD RD & RTE 4, BARRINGTON NH
 DATE: 8-13-21
 PERFORMED BY: SCOTT FRANKIEWICZ,
 PERMIT #1348

0-6" TOPSOIL
 10YR 3/3 - DARK BROWN

6-16" GRAVELLY SAND
 GRANULAR/FRIABLE
 7.5 YR 5/6 - STRONG BROWN

16-48" LOAMY SAND
 GRANULAR, FIRM IN PLACE
 2.5 YR 5/6 - LIGHT OLIVE BROWN

ESHWT = 16"
 ROOTS TO 16"
 NO WATER OBSERVED
 NO LEDGE OBSERVED

PARENT SOILS: HAB-HINCKLEY-SANDY
 LOAM, EXCESSIVELY DRAINED, NHDES
 GROUP 1 (PER WEBSOILS)
 PERC: 2-4 MIN./INCH

LEGEND

- EXISTING STONEWALL
- ABUTTERS PROPERTY LINES
- SUBJECT PROPERTY LINES
- EDGE OF PAVEMENT
- EXISTING TREELINE
- EXISTING BLDG SETBACK
- WETLANDS
- DRILL HOLE FOUND
- REBAR W/ CAP FOUND
- STONE BOUND FOUND
- PROPOSED SIGN
- PROPOSED DRIVEWAY
- EDGE OF PAVEMENT
- PROPOSED 2' CONTOUR
- PROPOSED 10' CONTOUR
- PROPOSED CATCH BASIN
- PROPOSED RIPRAP
- EXISTING CONTOUR (MNR)
- EXISTING CONTOUR (MJR)

NEW HAMPSHIRE
 Designer of
 Subsurface Disposal
 Systems

 Scott R. Frankiewicz
 No. 1348
 Department of Environmental Services

REVISIONS	
NO.	DESCRIPTION
1	REVISION PER TOWN DESIGN REVIEW
2	SITE PLAN SUBMITTAL
3	REVISIONS OF SITE & BUMFORD ROAD

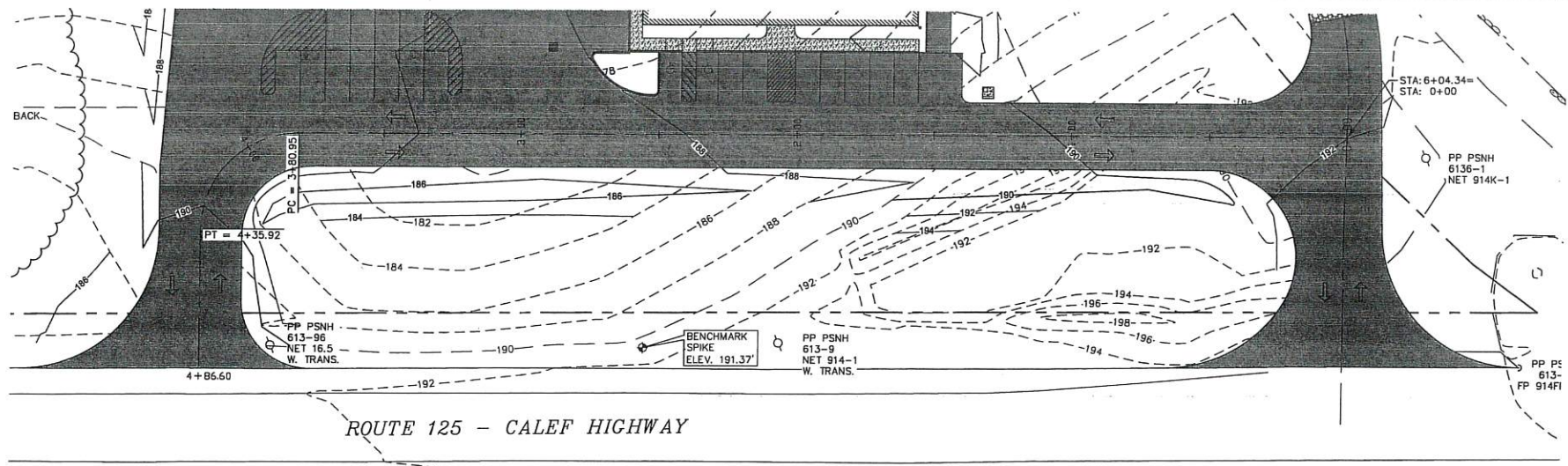
GRAPHIC SCALE
 15 7.5 0 30
 SCALE: 1"=30'

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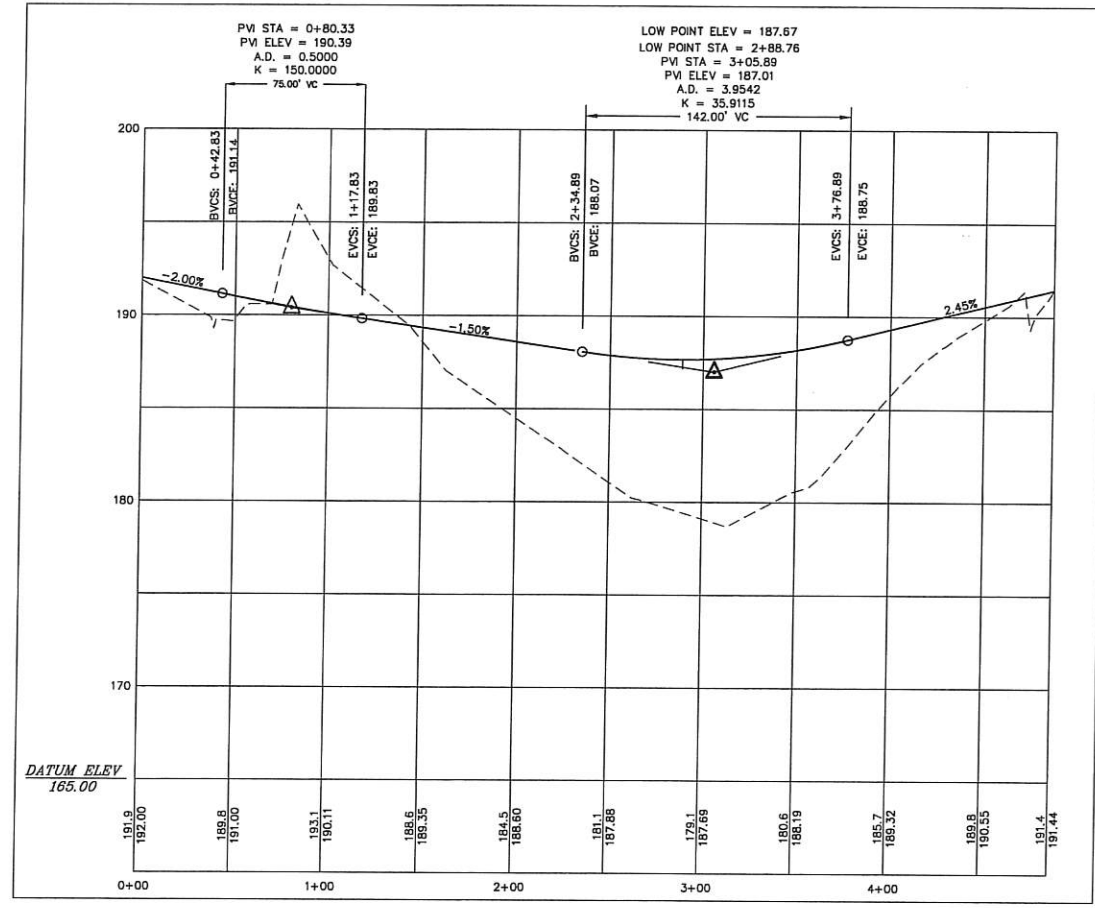
GRADING, DRAINAGE & EROSION CONTROL PLAN
 TAX MAP 251 LOT 63
2A TACTICAL, LLC
 98 TOLAND ROAD, BARRINGTON, NH 03825
 OWNED BY
STEVEN & PAMELA LENZI
 TRS REV TRUST
 304 YOUNG ROAD, BARRINGTON, NH 03825
 BOOK #502 PAGE 1000

STRAFFORD CO.
 JOB NO: 400.00
 DATE: JULY 13, 2021
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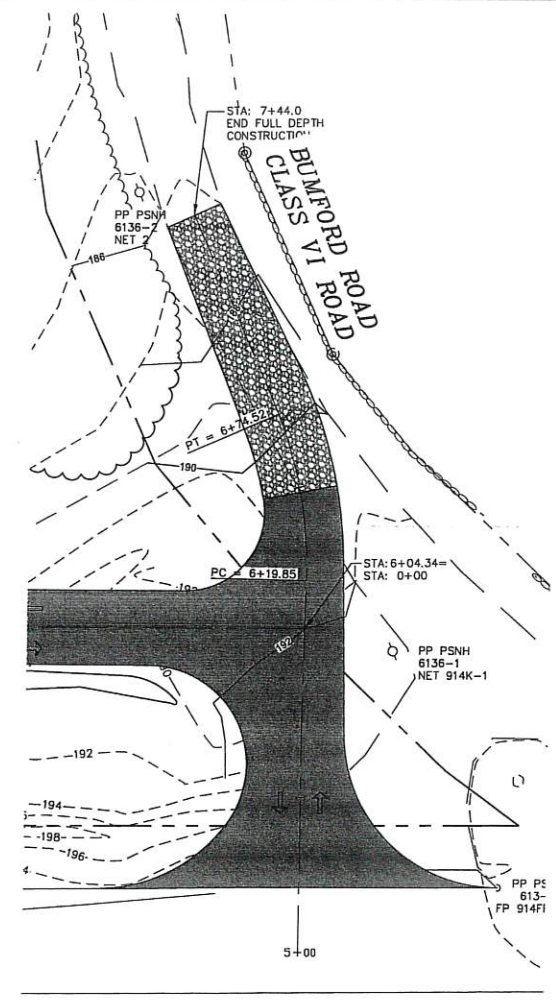
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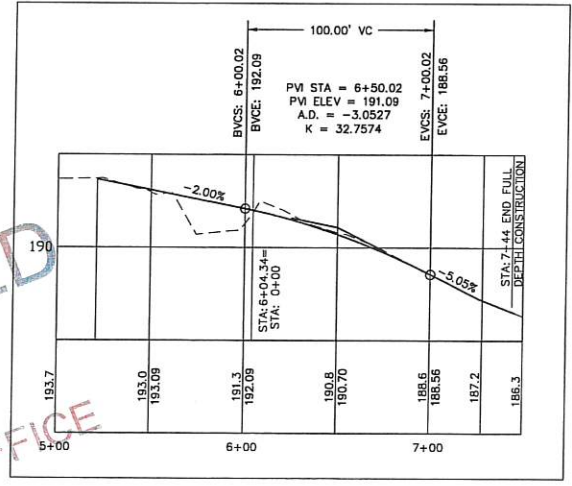
PROPOSED DRIVEWAY PLAN
SCALE: 1"=30'



PROPOSED DRIVEWAY PROFILE
SCALE: 1"=50' H
1"=5' V



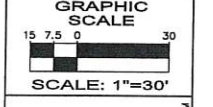
PROPOSED BUMFORD ROAD PLAN
SCALE: 1"=50' H
1"=5' V



PROPOSED BUMFORD ROAD PROFILE
SCALE: 1"=50' H
1"=5' V

REVISIONS

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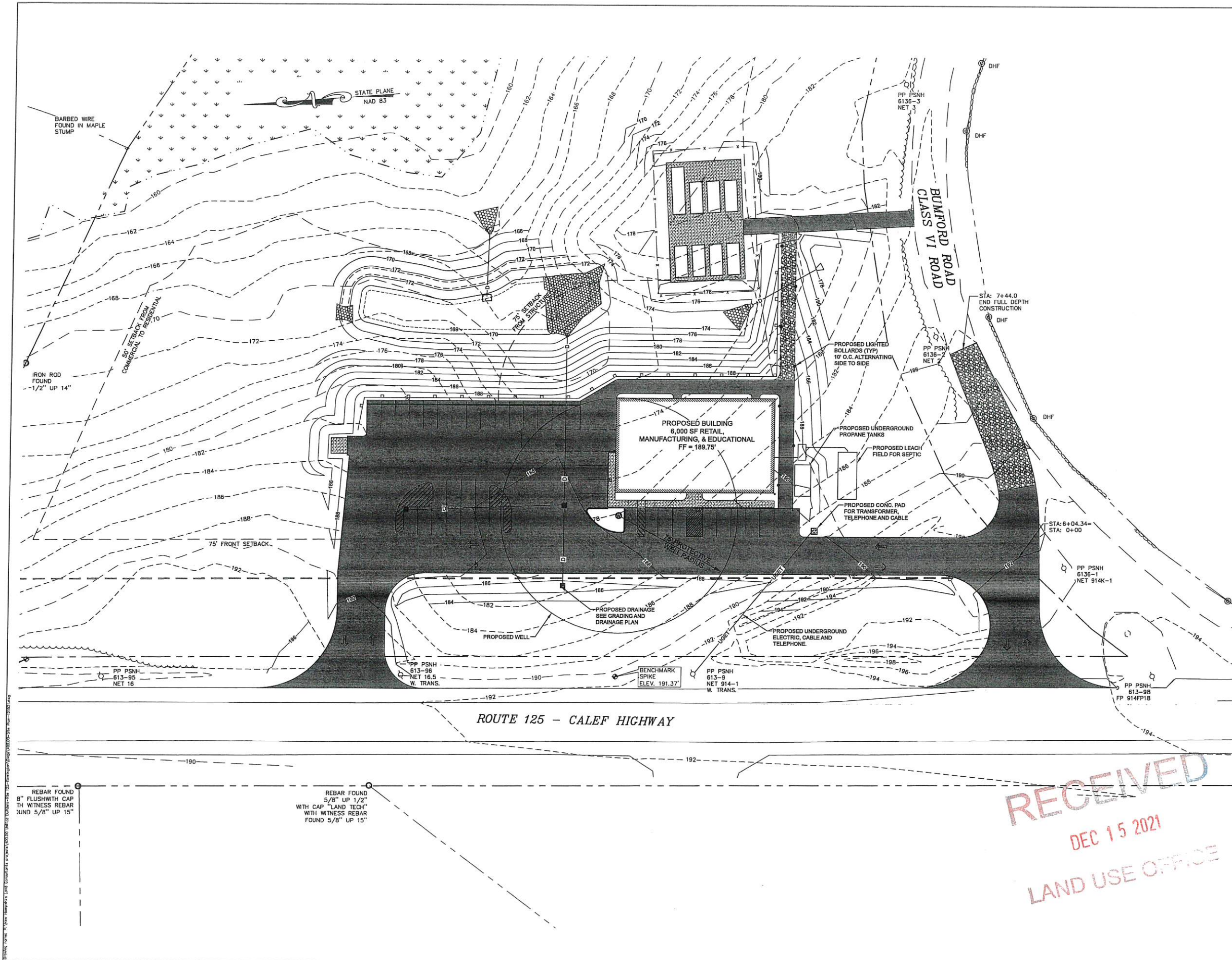
DRIVEWAY & BUMFORD ROAD PLAN & PROFILES
TAX MAP 251 LOT 63
2A TACTICAL, LLC
99 TOLAND ROAD, BARRINGTON, NH 03825
OWNED BY
STEVEN & PAMELA LENZI
TRS REV TRUST
304 YOUNG ROAD, BARRINGTON, NH 03825
BOOK 4502 PAGE 1000

STRAFFORD CO.
JOB NO: 400.00
DATE: JULY 13, 2021

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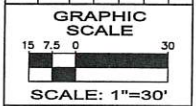
LEGEND

EXISTING STONEWALL	--- --- --- --- --- --- --- --- --- ---
ABUTTERS PROPERTY LINES	--- --- --- --- --- --- --- --- --- ---
SUBJECT PROPERTY LINES	--- --- --- --- --- --- --- --- --- ---
EDGE OF PAVEMENT	--- --- --- --- --- --- --- --- --- ---
EXISTING TREELINE	--- --- --- --- --- --- --- --- --- ---
EXISTING BLDG SETBACK	--- --- --- --- --- --- --- --- --- ---
WETLANDS	--- --- --- --- --- --- --- --- --- ---
DRILL HOLE FOUND	○
REBAR W/ CAP FOUND	□
STONE BOUND FOUND	■
PROPOSED SIGN	+
PROPOSED DRIVEWAY	---
EDGE OF PAVEMENT	---
PROPOSED 2' CONTOUR	--- --- --- --- --- --- --- --- --- ---
PROPOSED 10' CONTOUR	--- --- --- --- --- --- --- --- --- ---
PROPOSED CATCH BASIN	■
PROPOSED RIPRAP	■
EXISTING CONTOUR (MNR)	-572- --- --- --- --- --- --- --- --- --- ---
EXISTING CONTOUR (MJR)	-570- --- --- --- --- --- --- --- --- --- ---
PROPOSED UNDERGROUND ELECTRIC, TELEPHONE, CABLE	--- --- --- --- --- --- --- --- --- ---

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REVISIONS

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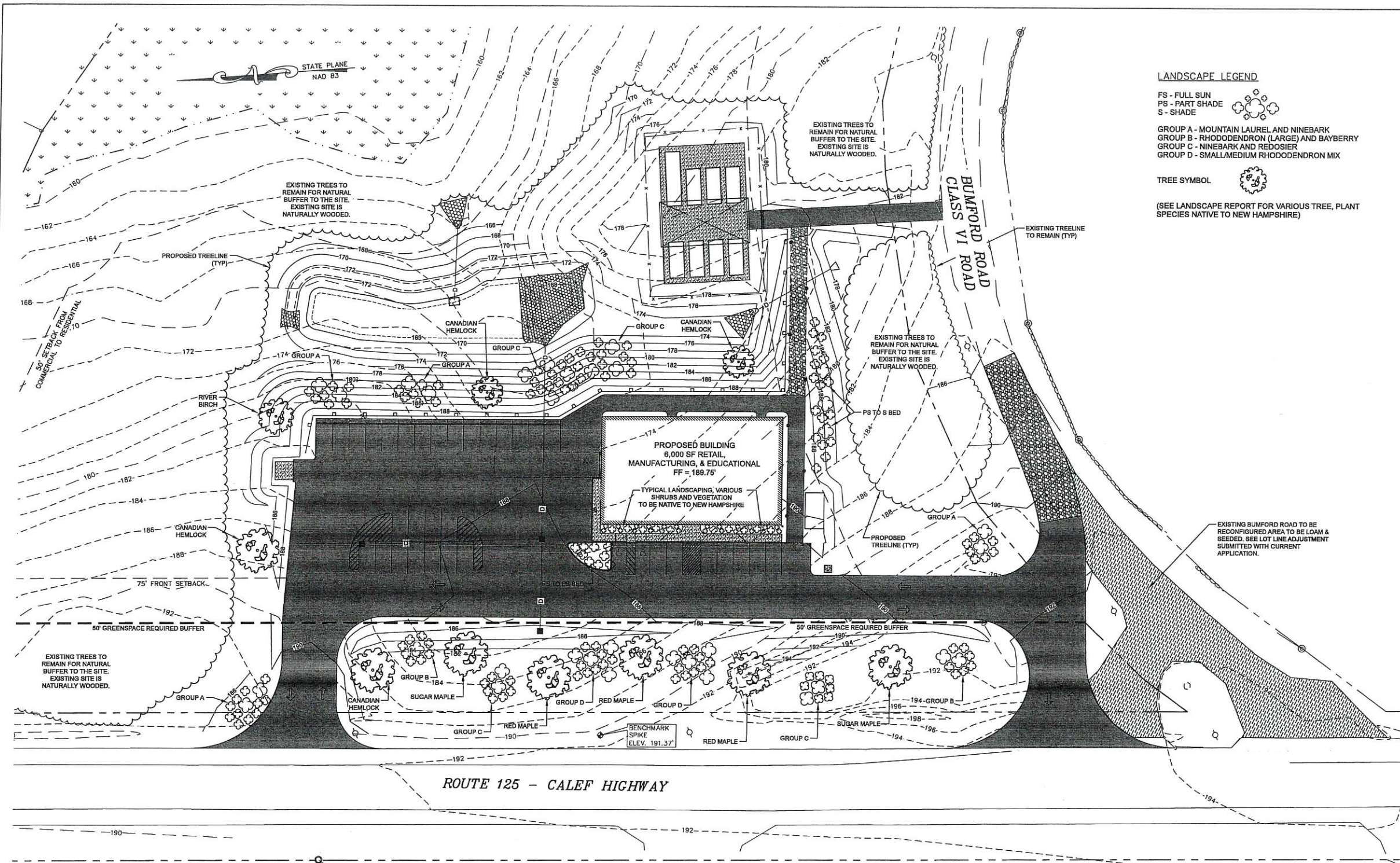


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UTILITY PLAN
TAX MAP 251 LOT 63
2A TACTICAL, LLC
99 TOLAND ROAD, BARRINGTON, NH 03825
OWNED BY
STEVEN & PAMELA LENZI
TRS REV TRUST
304 YOUNG ROAD, BARRINGTON, NH 03825
BOOK 4502 PAGE 1000

STRAFFORD CO.
JOB NO: 400.00
DATE: JULY 13, 2021
PUTP
SHT. 7 of 18

REG: FIRST NH TURNPIKE, NORTHWOOD, NH 02861 PH: 603-942-9320 WEBSITE: NHLANDCONSULTANTS.COM



LANDSCAPE LEGEND

- FS - FULL SUN
 - PS - PART SHADE
 - S - SHADE
- GROUP A - MOUNTAIN LAUREL AND NINEBARK
 GROUP B - RHODODENDRON (LARGE) AND BAYBERRY
 GROUP C - NINEBARK AND REDOSIER
 GROUP D - SMALL/MEDIUM RHODODENDRON MIX
- TREE SYMBOL
- (SEE LANDSCAPE REPORT FOR VARIOUS TREE, PLANT SPECIES NATIVE TO NEW HAMPSHIRE)

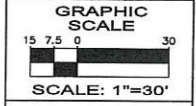
LEGEND

- EXISTING STONEWALL
- ADJUTERS PROPERTY LINES
- SUBJECT PROPERTY LINES
- EDGE OF PAVEMENT
- EXISTING TREELINE
- EXISTING BLDG SETBACK
- WETLANDS
- DRILL HOLE FOUND
- REBAR W/ CAP FOUND
- STONE BOUND FOUND
- PROPOSED SIGN
- PROPOSED DRIVEWAY
- EDGE OF PAVEMENT
- PROPOSED 2' CONTOUR
- PROPOSED 10' CONTOUR
- PROPOSED CATCH BASIN
- PROPOSED RIPRAP
- EXISTING CONTOUR (MNR)
- EXISTING CONTOUR (MJR)

PLANNING BOARD APPROVAL BLOCK

OWNER'S SIGNATURE _____ DATE _____

REVISIONS			
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 PH: 603-942-9220
 688E FIRST NH TURNPIKE, NORTHWOOD, NH 03281

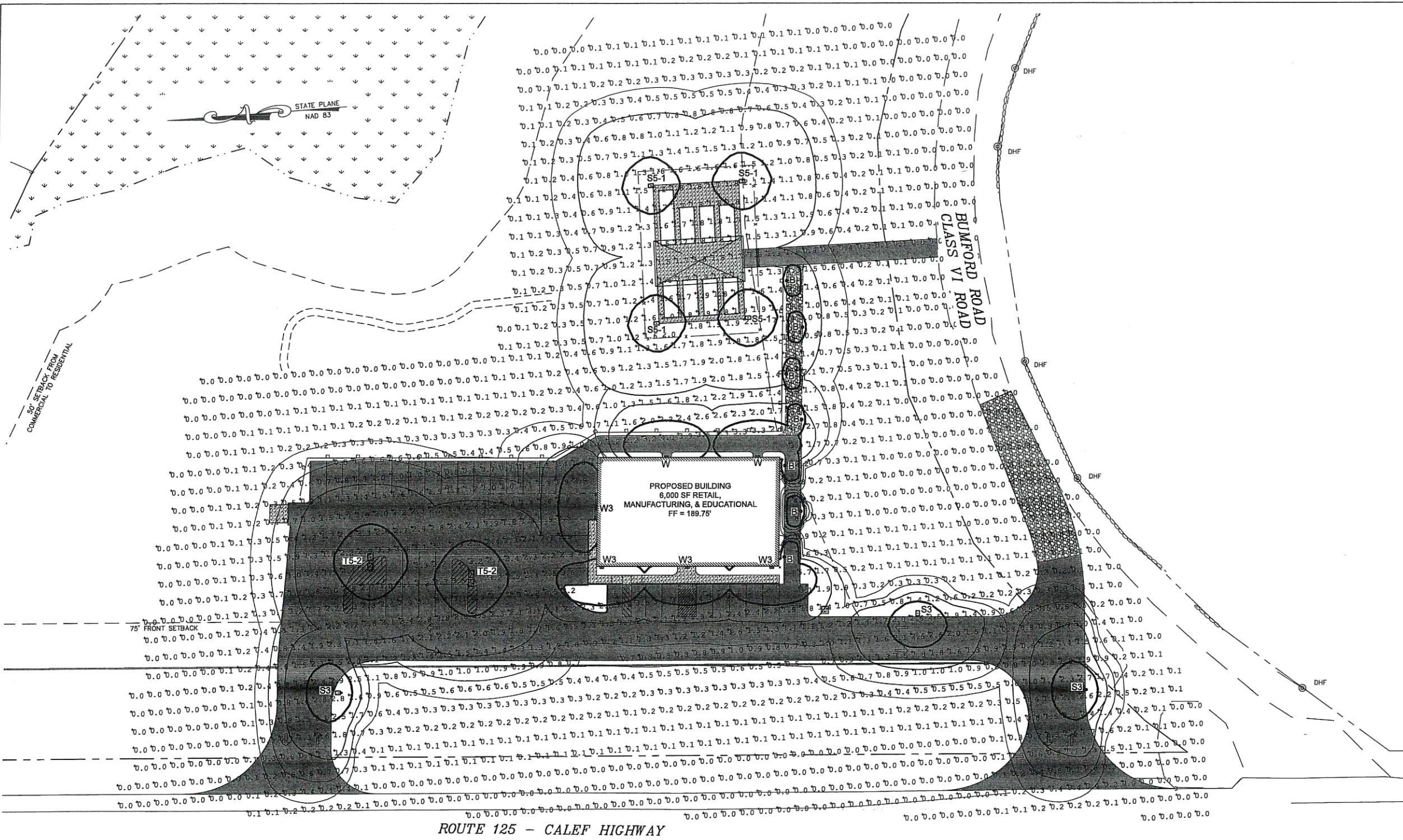
MAINTENANCE

ALL LANDSCAPE SHALL RECEIVE REGULAR MAINTENANCE AND UPKEEP. SEVERELY INJURED, DISEASED, OR DEAD PLANT MATERIALS MUST BE REPLACED IN KIND IN PERPETUITY (AVOID REPLACING LANDSCAPE MATERIALS IN THE PERIOD FROM NOVEMBER TO MARCH). BEST MANAGEMENT PRACTICES TO MINIMIZE ENVIRONMENTAL IMPACTS, INCLUDING THE USE OF ORGANIC COMPOST IF THE OWNERSHIP OF THE SITE IS CONVEYED TO A NEW PROPERTY OWNER, THE NEW OWNER SHALL BE RESPONSIBLE FOR MAINTAINING ALL LANDSCAPING WITH THE APPROVED FINAL LANDSCAPING PLAN.

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LANDSCAPE PLAN
 TAX MAP 251 LOT 63
2A TACTICAL, LLC
 99 TOLAND ROAD, BARRINGTON, NH 03825
 OWNED BY
STEVEN & PAMELA LENZI
 TRS REV TRUST
 304 YOUNG ROAD, BARRINGTON, NH 03825
 BOOK 4502 PAGE 1000

STRAFFORD CO.
 JOB NO: 400.00
 DATE: JULY 13, 2021
PLSC
 SHT. 8 of 18



Symbol	Qty	Label	Arrangement	Description
☉	7	B	Single	BRT6-A2-740-U-T3-42-BK
☐	3	S3	Single	GLEON-SA1C-740-U-T3/ SSS4A20SFN1 (20' AFG)
☐	4	S5-1	Single	GLEON-SA1C-740-U-5WQ/ SSS4A20SFN1 (20' AFG)
☐☐	2	T5-2	Back-Back	GLEON-SA1D-740-U-5WQ / SSS4A20SFN2 (20' AFG)
☐	2	W	Single	GWC-SA1C-740-U-SL4 / WALL MTD 15' AFG
☐	4	W3	Single	GWC-SA1D-740-U-SL4 / WALL MTD 15' AFG

StatArea 1
PARKING LOT
Illuminance (Fc)
Average = 1.93
Maximum = 3.6
Minimum = 0.7
Avg/Min Ratio = 2.76
Max/Min Ratio = 5.14

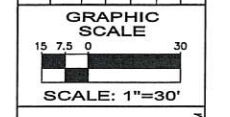
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LEGEND

EXISTING STONEWALL	=====
ABUTTERS PROPERTY LINES	-----
SUBJECT PROPERTY LINES	-----
EDGE OF PAVEMENT	-----
EXISTING TREELINE	-----
EXISTING BLDG SETBACK	-----
WETLANDS
DRILL HOLE FOUND	○
REBAR W/ CAP FOUND	○
STONE BOUND FOUND	○
PROPOSED SIGN	┆
PROPOSED DRIVEWAY	-----
EDGE OF PAVEMENT	-----
POLE MOUNTED FIXTURES	W
SMALLER POLE FIXTURES	S5-1, S3

REVISIONS

NO.	DATE	DESCRIPTION	BY
1	8/17/2021	REVISED PER TOWN DESIGN REVIEW	TDB
2	9/14/2021	SITE PLAN SUBMITTAL	TDB
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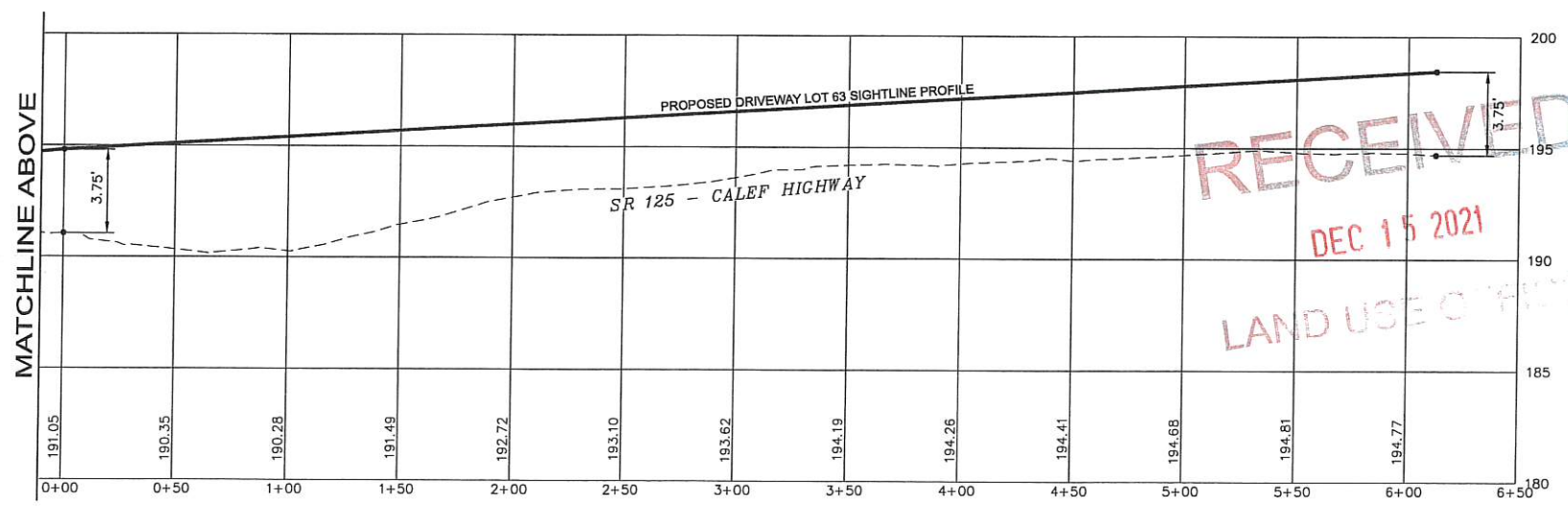
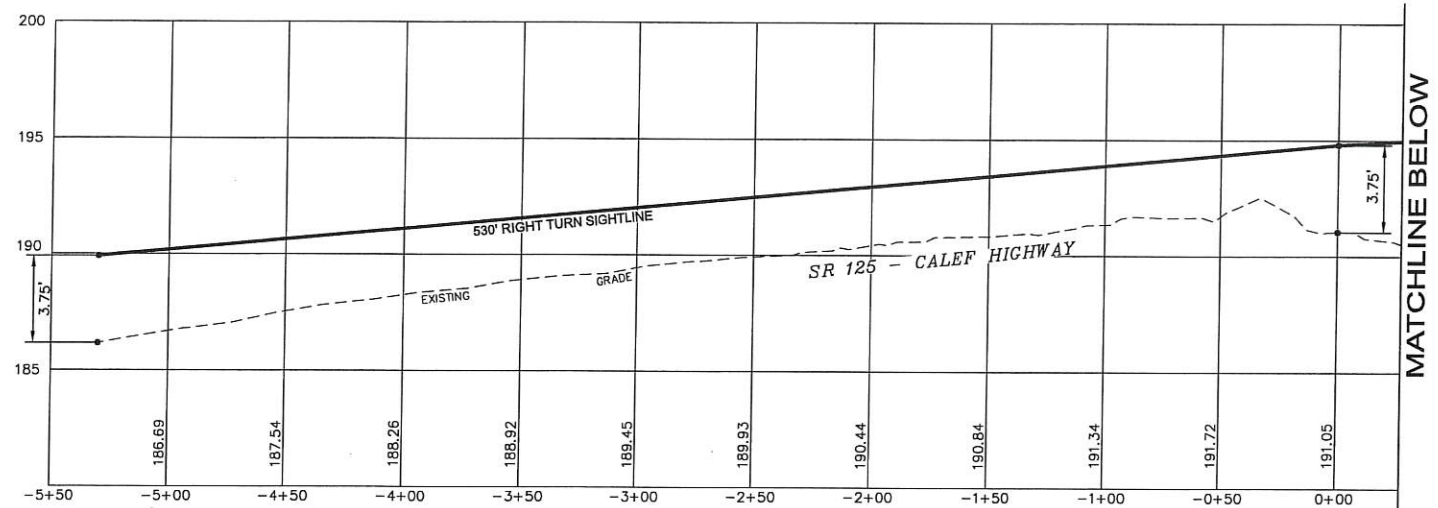
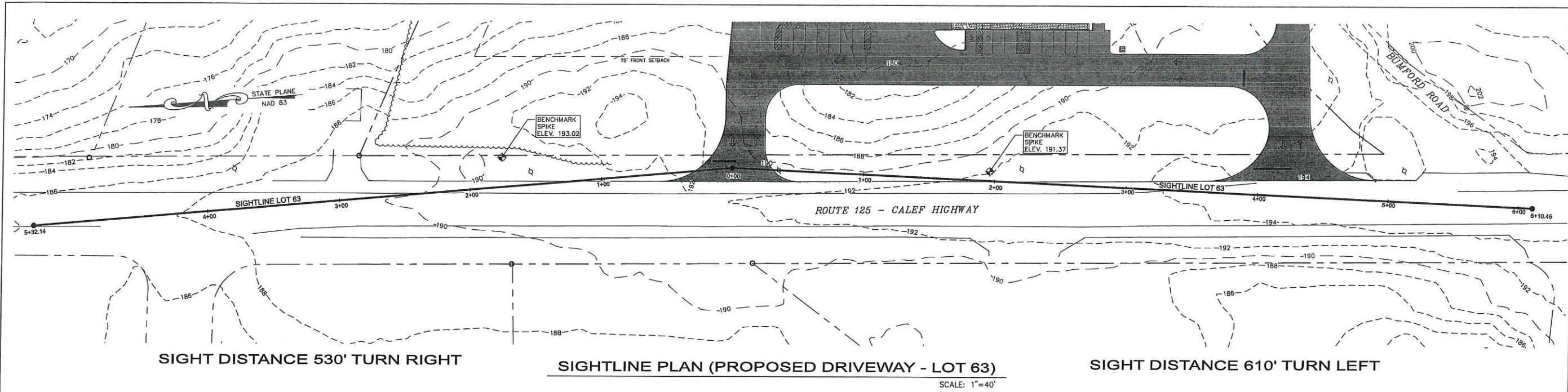


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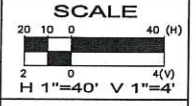
LIGHTING PLAN
TAX MAP 251 LOT 63
2A TACTICAL, LLC
99 TOLAND ROAD, BARRINGTON, NH 03825
OWNED BY
STEVEN & PAMELA LENZI TRS REV TRUST
304 YOUNG ROAD, BARRINGTON, NH 03825
BOOK 4502 PAGE 1000

STRAFFORD CO.
JOB NO: 400.00
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PLTP
SHT. 9 of 18

6835 FIRST NH TURNPIKE, NORTHWOOD, NH 03261 PH: 603-442-9320 WEBSITE: NH.LANDCONSULTANTS.COM



REVISIONS		
NO.	DATE	DESCRIPTION
1	8/7/2021	REVISED PER TOWN DESIGN REVIEW
2	9/14/2021	SITE PLAN SUBMITTAL
3	12/15/2021	REVISIONS OF SITE & BUMFORD ROAD



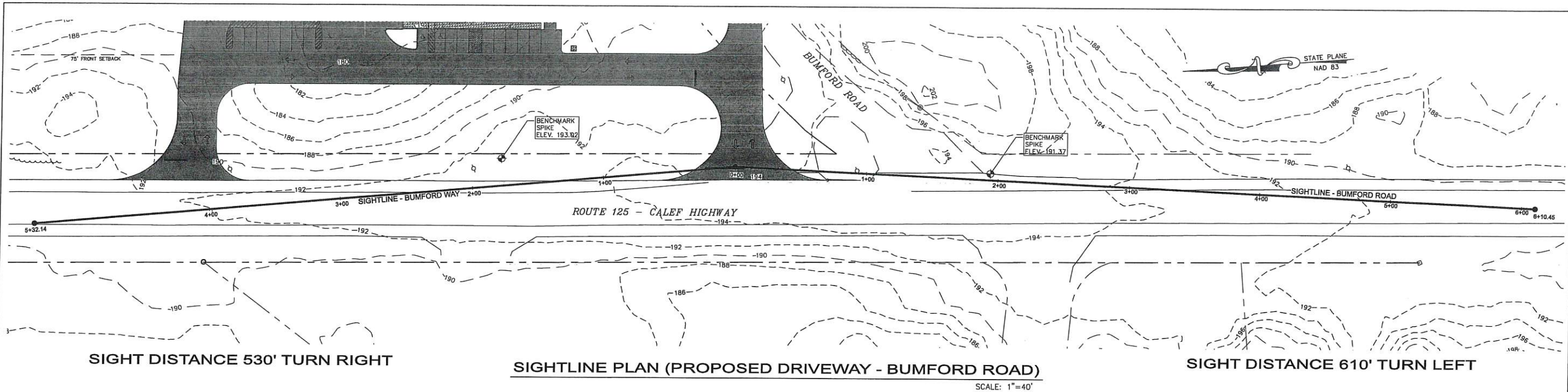
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SURVEYING-LAND PLANNING-REAL ESTATE
A Veteran Owned Company

6830 FIRST N.H. TURNPIKE, NORTHWOOD, NH 03251 PH. 603-942-9220 WEBSITE: NH.LANDCONSULTANTS.COM

VEHICLE PEDESTRIAN ACCESS (LOT 63) PLAN
TAX MAP 251 LOT 63
2A TACTICAL, LLC
99 TOLAND ROAD, BARRINGTON, NH 03825
OWNED BY
STEVEN & PAMELA LENZI
TRS REV TRUST
304 YOUNG ROAD, BARRINGTON, NH 03825
BOOK 4502 PAGE 1000

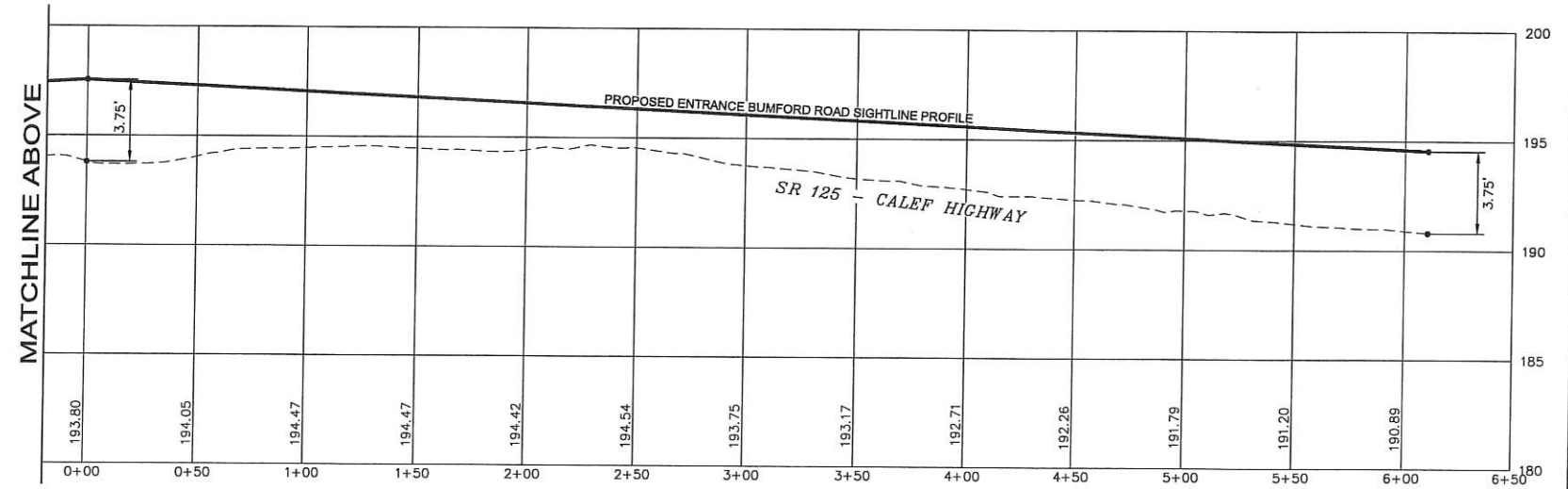
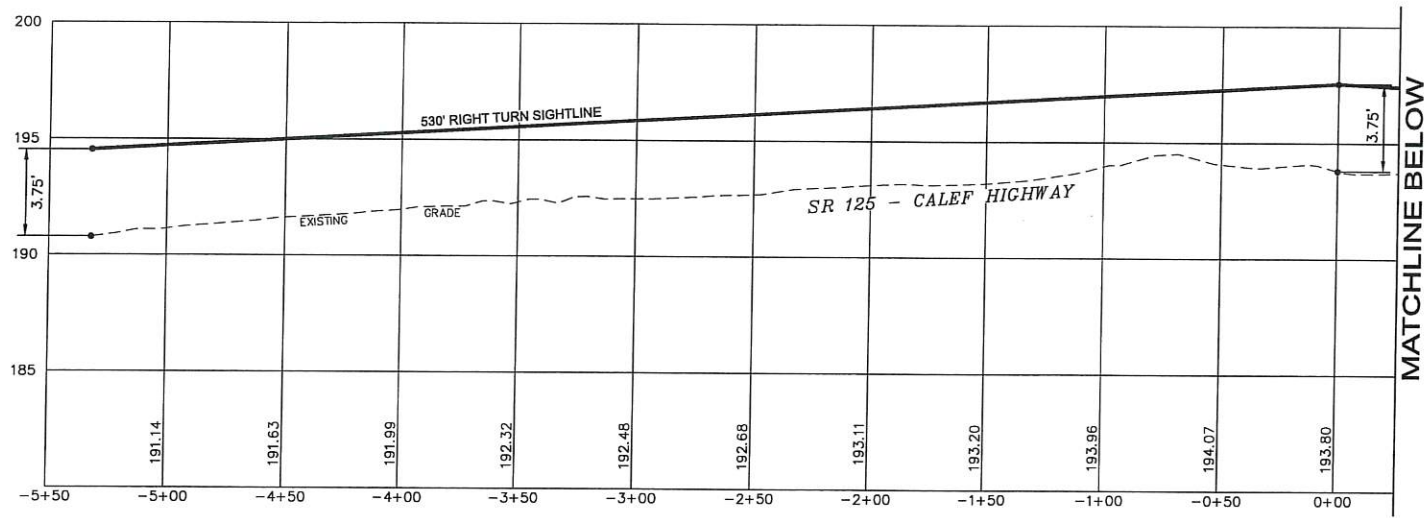
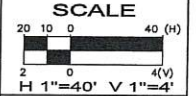
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LAND USE

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JOB NO: 400.00
DATE: JULY 13, 2021
VPAP
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REVISIONS

NO.	DATE	DESCRIPTION
1	8/17/2021	REVISED PER TOWN DESIGN REVIEW
2	9/14/2021	SITE PLAN SUBMITTAL
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RECEIVED
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LAND USE OFFICE

N.H. LAND Consultants
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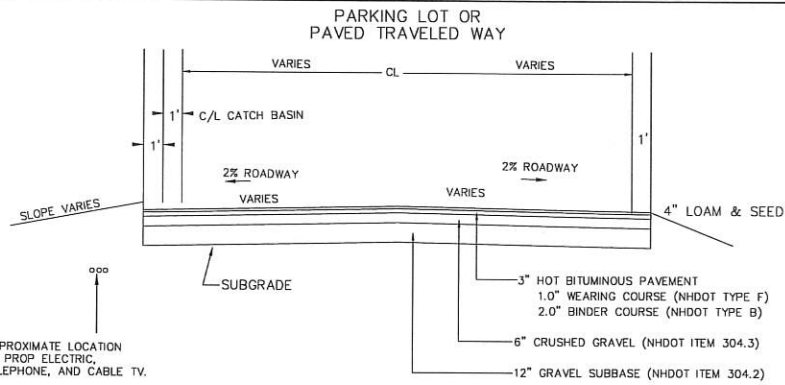
VEHICLE PEDESTRIAN ACCESS (BUMFORD ROAD) PLAN
TAX MAP 251 LOT 63
2A TACTICAL, LLC
99 TOLAND ROAD, BARRINGTON, NH 03825
OWNED BY
STEVEN & PAMELA LENZI
TRS REV TRUST
304 YOUNG ROAD, BARRINGTON, NH 03825
BOOK 4502 PAGE 1000

STRAFFORD CO.
JOB NO: 400.00
DATE: JULY 13, 2021
VPAP-2
SHT. 11 of 18

Drawing made by: N. H. Land Consultants, 6832 First NH Turnpike, Northwood, NH 03261, PH: 603-942-9220, WEBSITE: NH.LANDCONSULTANTS.COM

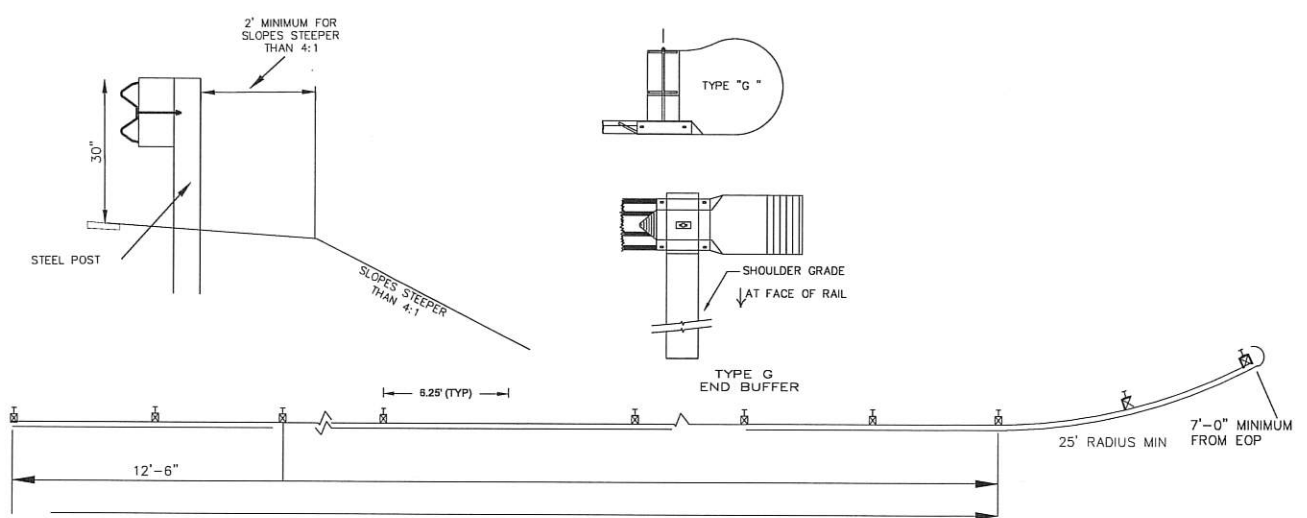
GENERAL NOTES

- MINIMUM ACCEPTABLE STANDARDS FOR ALL CONSTRUCTION MATERIALS AND METHODS SHALL BE IN ACCORDANCE WITH THE NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION (NHDOT), STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST REVISION, (AND ALL SUBSEQUENT AMENDMENTS) AND THE TOWN OF BARRINGTON REGULATIONS. DRAINAGE DESIGN IS BASED ON THE "STORMWATER MANAGEMENT AND EROSION AND SEDIMENT CONTROL HANDBOOK VOLUME II"
- ALL ELEVATIONS AND LOCATIONS OF EXISTING UTILITY AND DRAINAGE STRUCTURES SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO UTILIZATION OF DESIGN ELEVATIONS ON THIS PLAN.
- BACKFILL OF TRENCHES AND ALL PAVED AREAS SHALL BE COMPACTED IN ACCORDANCE WITH NH DOT-STANDARD SPECIFICATIONS-SECTION 304.
- THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES AND SHALL PROVIDE ALL NECESSARY CONTINUOUS BARRIERS OF SUFFICIENT TYPE, SIZE AND STRENGTH TO PREVENT ACCESS TO ALL OPEN EXCAVATIONS AT THE COMPLETION OF EACH DAYS WORK.
- ALL ELEVATIONS ARE BASED ON U.S.G.S. DATUM.
- THE CONTRACTOR SHALL BE AWARE OF HIS RESPONSIBILITY TO CONTACT "DIG SAFE" AT 111 SO. BEDFORD STREET, BURLINGTON, MA (1-888-344-7233) AT LEAST 72 WORKING HOURS PRIOR TO THE START OF ANY EXCAVATION.
- SHORING AND STABILIZING OF TRENCH SIDEWALLS DURING EXCAVATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- ALL WORK ADJACENT TO EXISTING ELWOOD AND WEST ROAD SHALL BE PERFORMED IN WITH THE STREET OPENING REQUIREMENTS OF THE TOWN OF BARRINGTON AND NH DOT STANDARD SPECIFICATIONS.
- ALL CULVERTS, DRAINAGE STRUCTURES AND ROAD CONSTRUCTION SHALL BE SUBJECT TO PARTIAL AND FINAL INSPECTION PRIOR TO ACCEPTANCE BY THE TOWN OF BARRINGTON. THE CONTRACTOR IS RESPONSIBLE FOR SCHEDULING AND COORDINATING INSPECTION BY THE TOWN ENGINEER.
- UTILITY PLANS SHALL BE SUBMITTED TO THE TOWN ENGINEER FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL PROVIDE A MINIMUM OF 4" TOPSOIL AND SEED OVER ALL DISTURBED UNPAVED AREAS UNLESS OTHERWISE SPECIFIED.
- CORRUGATED PLASTIC PIPE (CPP) WITH SMOOTH INTERIOR - ADS N-12 OR APPROVED EQUAL MAY BE SUBSTITUTED FOR REINFORCED CONCRETE DRAINAGE PIPE (RCP) WITH APPROVAL OF THE BARRINGTON DEPARTMENT OF PUBLIC WORKS AND TOWN ENGINEER.
- CONCRETE END SECTIONS, (FLARED ENDS) SHALL COMPLY WITH NHDOT STANDARD SPECIFICATIONS, HIGHWAY DESIGN MANUAL, PLATES 5 & 6, OF STANDARD 11 DATED 1979 AND ALL SUBSEQUENT AMENDMENTS.
- ALL DRIVEWAY GRADING IS SUBJECT TO DEPARTMENT OF PUBLIC WORKS REVIEW PRIOR TO DRIVEWAY CONSTRUCTION ON INDIVIDUAL LOTS. DRIVEWAY CULVERTS, LOCATED OUTSIDE OF THE TOWNS RIGHT OF WAY, MAY BE NECESSARY DEPENDING ON THE ACTUAL PROPOSED LOT DEVELOPMENT.
- ALL PAVEMENT MARKERS SHOWN CONFORM TO THE LATEST EDITION OF THE NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION STANDARDS PLANS FOR ROAD AND BRIDGE CONSTRUCTION.

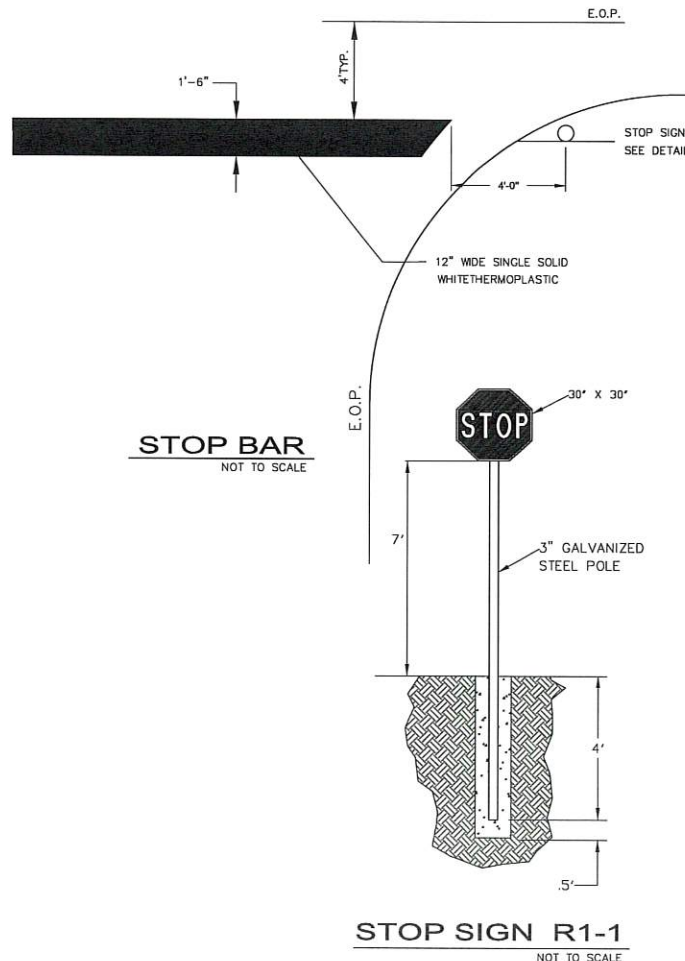


- NOTES:**
- ALL ROADWAY CONSTRUCTION MATERIALS AND METHODS SHALL BE IN ACCORDANCE WITH THE LATEST N.H.D.O.T. SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2010 INCLUDING SUBSEQUENT AMENDMENTS AND EDITIONS.
 - PROVIDE 4" (MIN.) COMPACTED LOAM AND SEED ON ALL SIDE SLOPES AND DRAINAGE SWALES UNLESS OTHERWISE NOTED.
 - ALL LEDGE AND ROCK SHALL BE REMOVED TO 6" BELOW SUBGRADE.
 - ROADWAY UNDERDRAIN SHALL BE PROVIDED IN ALL CUT SECTIONS (AT SIDE WITH CUT) AND WHERE SEASONAL HIGH WATER IS WITHIN FOUR (4) FEET OF FINISHED GRADE IN ALL OTHER AREAS. UNDERDRAIN SHALL HAVE A MINIMUM OF FOUR (4) FEET OF COVER.

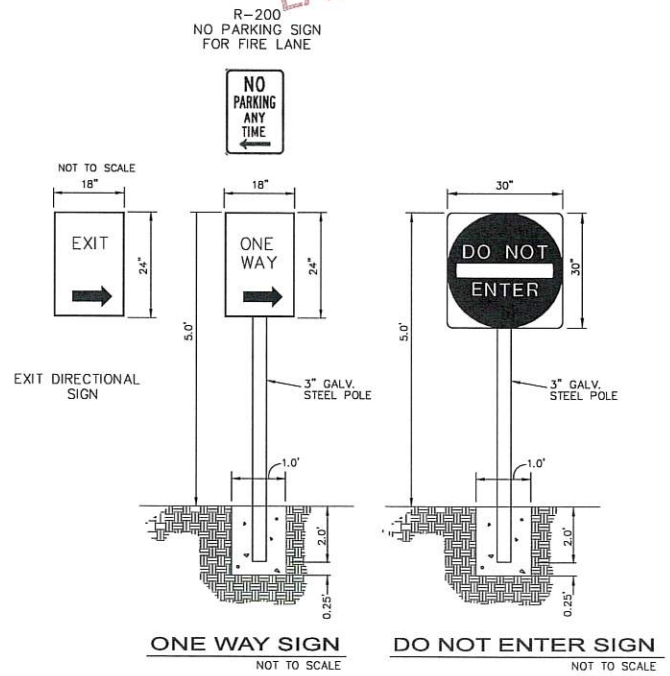
TYPICAL ROADWAY SECTION
NOT TO SCALE



SAMPLE GUARDRAIL INSTALLATION LAYOUT
NOT TO SCALE



STOP SIGN R1-1
NOT TO SCALE



NOTE: TWO "ONE WAY" SIGNS TO BE INSTALLED. ONE SIGN WITH THE DIRECTIONAL ARROW POINTING TO THE LEFT, AND ONE SIGN WITH THE DIRECTIONAL ARROW POINTING TO THE RIGHT.

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REVISIONS	
NO.	DATE
1	8/17/2021
2	9/14/2021
3	12/15/2021

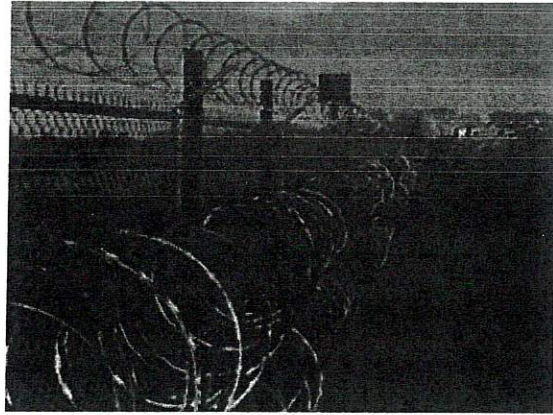
SCALE AS SHOWN

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683C FIRST NH TURNPIKE, NORTHWOOD, NH 03281
PH: 603-942-9220
WEBSITE: NH.LANDCONSULTANTS.COM

SITE DETAILS -1
TAX MAP 251 LOT 6.3
2A TACTICAL, LLC
99 TOLAND ROAD, BARRINGTON, NH 03825
OWNED BY
STEVEN & PAMELA LENZI
TRS REV TRUST
304 YOUNG ROAD, BARRINGTON, NH 03825
BOOK 4502 PAGE 1000

STRAFFORD CO.
JOB NO: 400.00
DATE: JULY 13, 2021

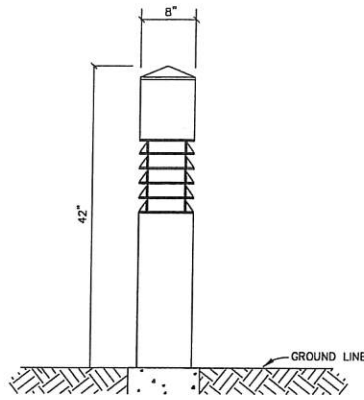
DET-1
SHT. 12 of 18



POTENTIAL SECURITY FENCE APPROXIMATE 8' FROM CONEX BY OTHERS OR APPROVED EQUAL

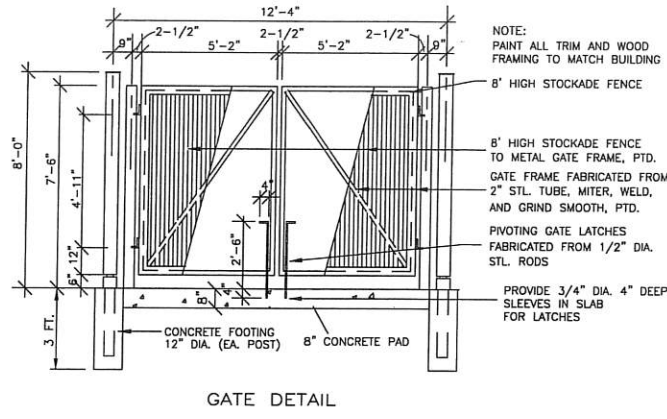
SECURITY FENCING

NOT TO SCALE



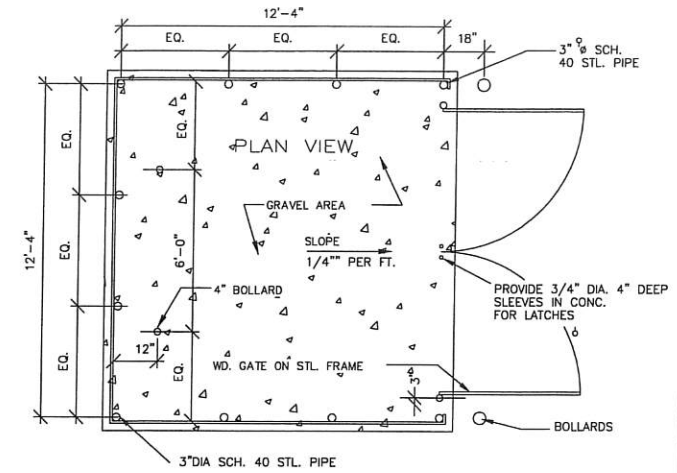
BOLLARD LIGHT DETAIL

NOT TO SCALE



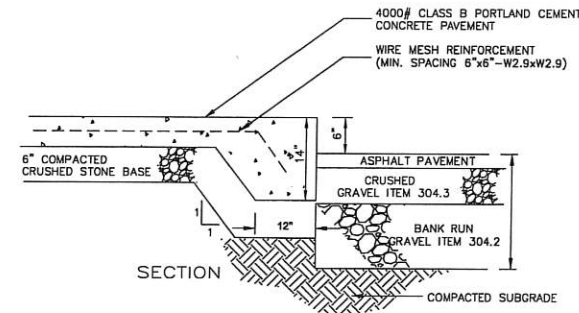
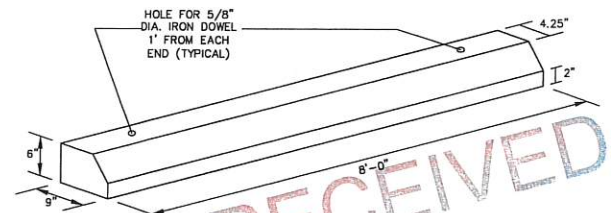
WOOD TRASH ENCLOSURE

NOT TO SCALE



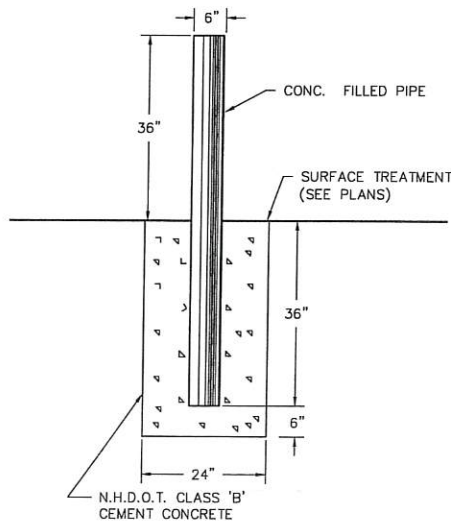
CONCRETE PARKING CURB STOP DETAIL

NOT TO SCALE



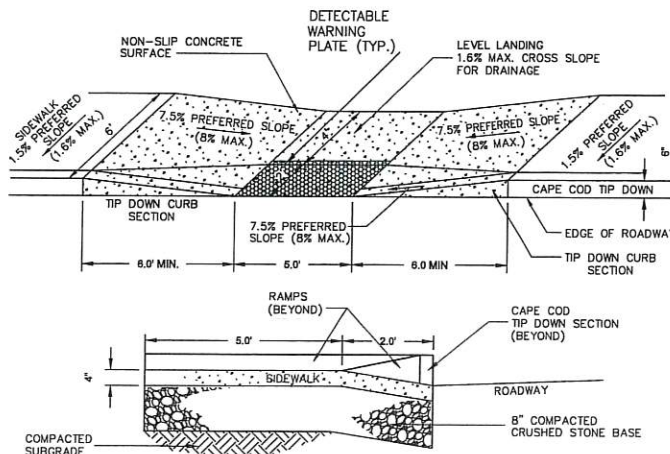
CONCRETE CURB AT SIDEWALK

NOT TO SCALE



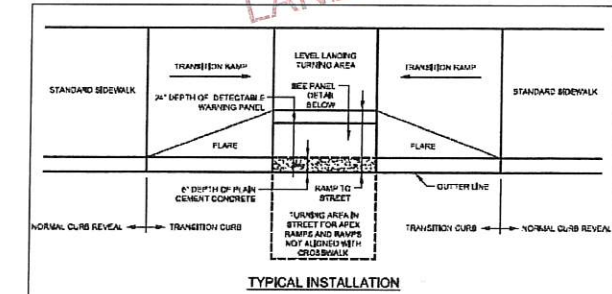
BOLLARD DETAIL

NOT TO SCALE

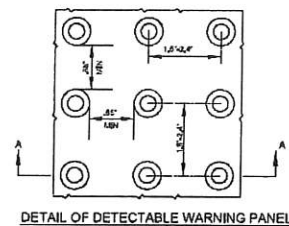


HANDICAP RAMP RECESSED IN WALK

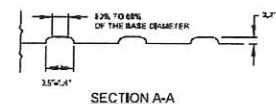
NOT TO SCALE



TYPICAL INSTALLATION



DETAIL OF DETECTABLE WARNING PANEL



SECTION A-A

NOTE:
PANELS MAY BE CONCRETE PRECAST OR CAST IN PLACE OR OTHER SUITABLE MATERIAL PERMANENTLY APPLIED TO THE RAMP. DETECTABLE WARNING SURFACES SHALL CONTRAST VISUALLY WITH ADJACENT WALKING SURFACES EITHER LIGHT-ON-DARK, OR DARK-ON-LIGHT.

DETECTABLE WARNING PANEL

NOT TO SCALE

REVISIONS		
NO.	DATE	DESCRIPTION
1	8/17/2021	REVISED PER TOWN DESIGN REVIEW
2	9/14/2021	SITE PLAN SUBMITTAL
3	12/15/2021	REVISIONS OF SITE & BUNFORD ROAD

SCALE AS SHOWN

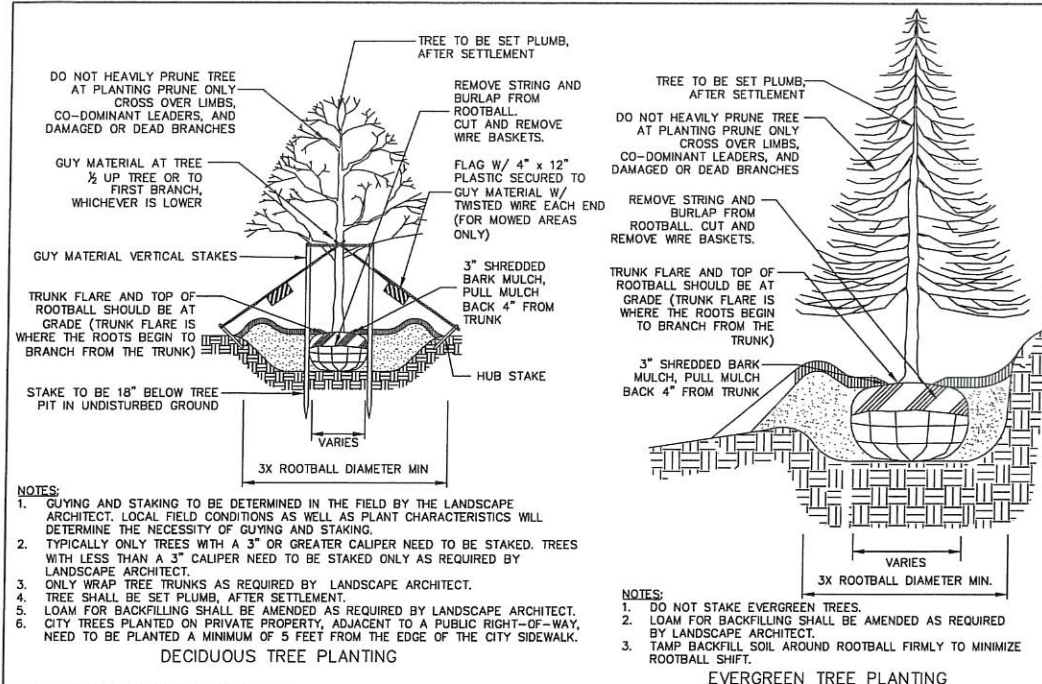
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DET-2
SHT. 13 of 18

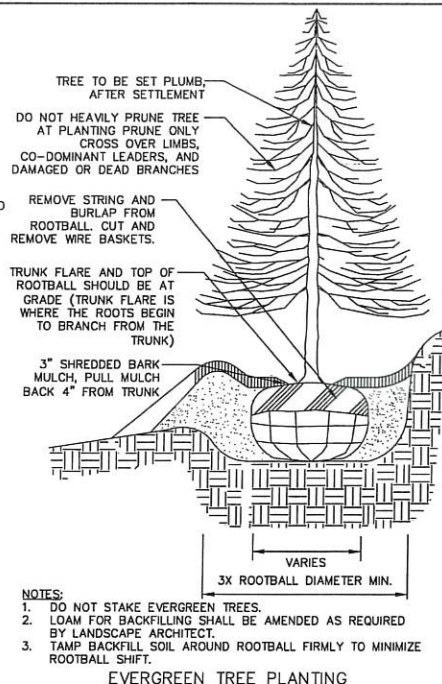
683C FIRST NH TURNPIKE, NORTHWOOD, NH 03281 PH. 603-942-3220 WEBSITE: NH.LANDCONSULTANTS.COM



- NOTES:**
1. GUYING AND STAKING TO BE DETERMINED IN THE FIELD BY THE LANDSCAPE ARCHITECT. LOCAL FIELD CONDITIONS AS WELL AS PLANT CHARACTERISTICS WILL DETERMINE THE NECESSITY OF GUYING AND STAKING.
 2. TYPICALLY ONLY TREES WITH A 3" OR GREATER CALIPER NEED TO BE STAKED. TREES WITH LESS THAN A 3" CALIPER NEED TO BE STAKED ONLY AS REQUIRED BY LANDSCAPE ARCHITECT.
 3. ONLY WRAP TREE TRUNKS AS REQUIRED BY LANDSCAPE ARCHITECT.
 4. TREE SHALL BE SET PLUMB, AFTER SETTLEMENT.
 5. LOAM FOR BACKFILLING SHALL BE AMENDED AS REQUIRED BY LANDSCAPE ARCHITECT.
 6. CITY TREES PLANTED ON PRIVATE PROPERTY, ADJACENT TO A PUBLIC RIGHT-OF-WAY, NEED TO BE PLANTED A MINIMUM OF 5 FEET FROM THE EDGE OF THE CITY SIDEWALK.

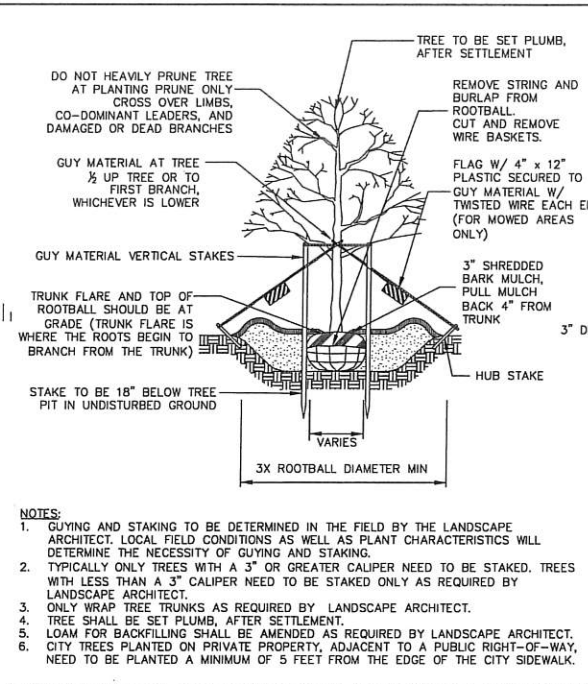
DECIDUOUS TREE PLANTING

LANDSCAPING NOTES:
SEE SUBMITTED LANDSCAPE REPORT FOR COMPLETE PLANT AND TREE VARIETIES SPECIFIC TO THIS PROJECT.



- NOTES:**
1. DO NOT STAKE EVERGREEN TREES.
 2. LOAM FOR BACKFILLING SHALL BE AMENDED AS REQUIRED BY LANDSCAPE ARCHITECT.
 3. TAMP BACKFILL SOIL AROUND ROOTBALL FIRMLY TO MINIMIZE ROOTBALL SHIFT.

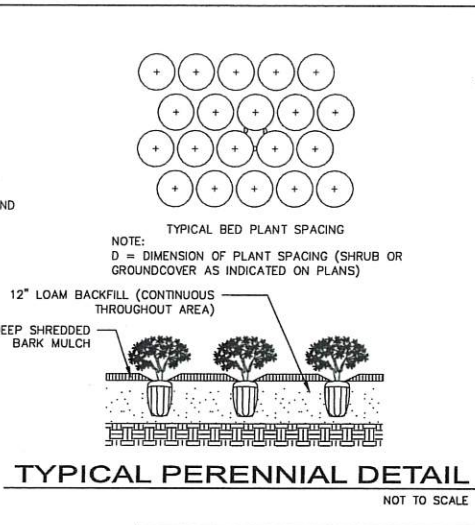
EVERGREEN TREE PLANTING



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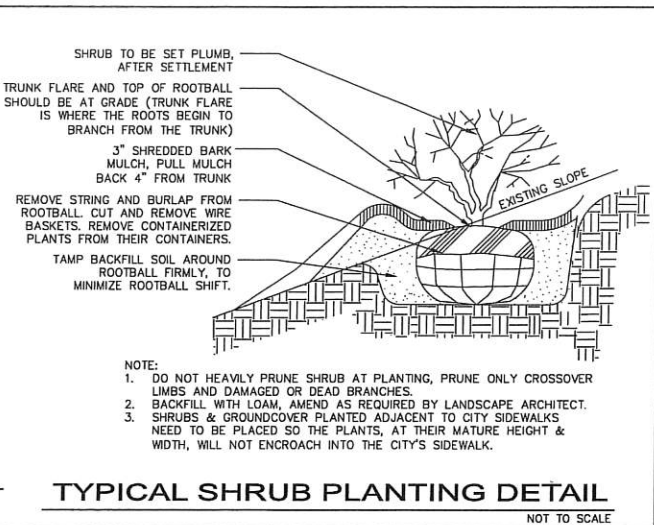
DECIDUOUS TREE PLANTING DETAIL

NOT TO SCALE



TYPICAL PERENNIAL DETAIL

NOT TO SCALE

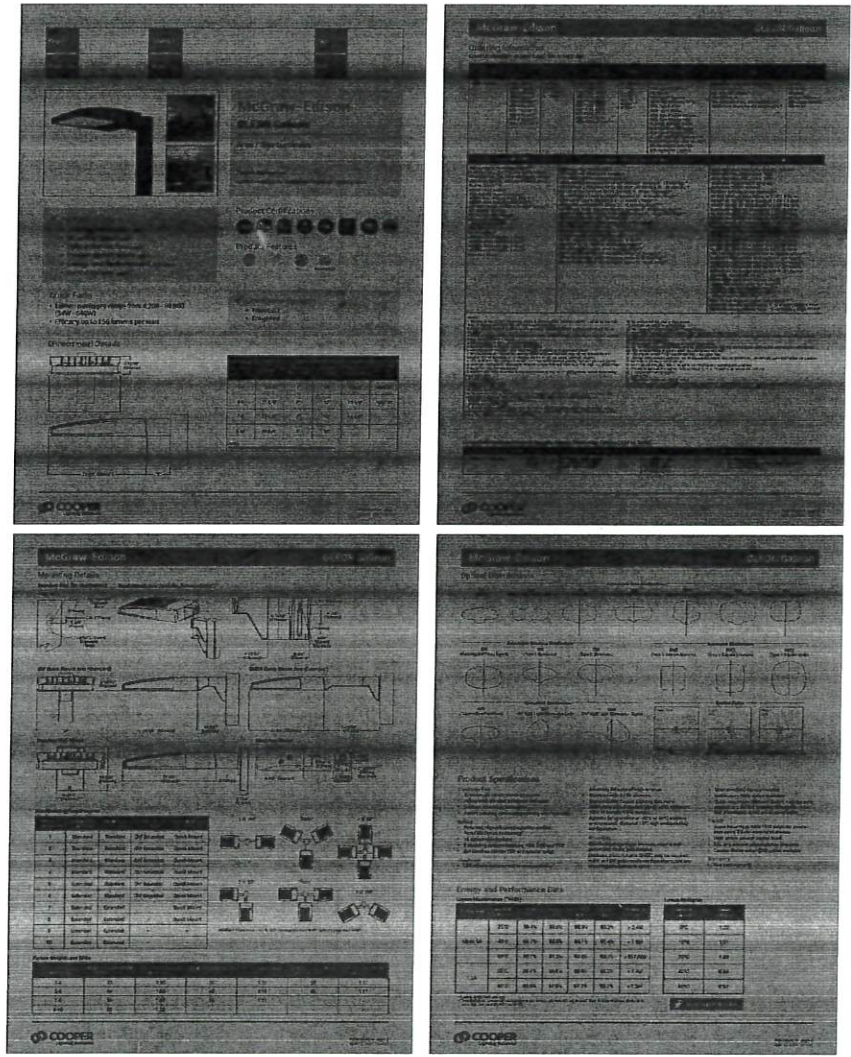


TYPICAL SHRUB PLANTING DETAIL

NOT TO SCALE

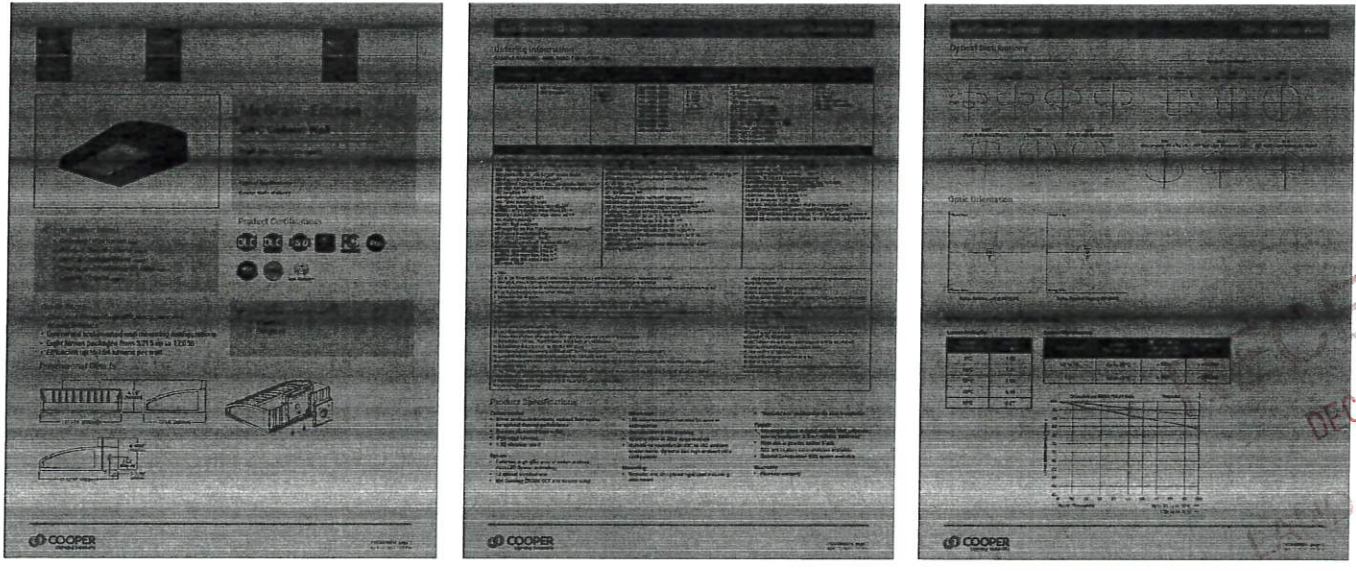
REVISIONS			
NO.	DATE	DESCRIPTION	BY
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SCALE AS SHOWN



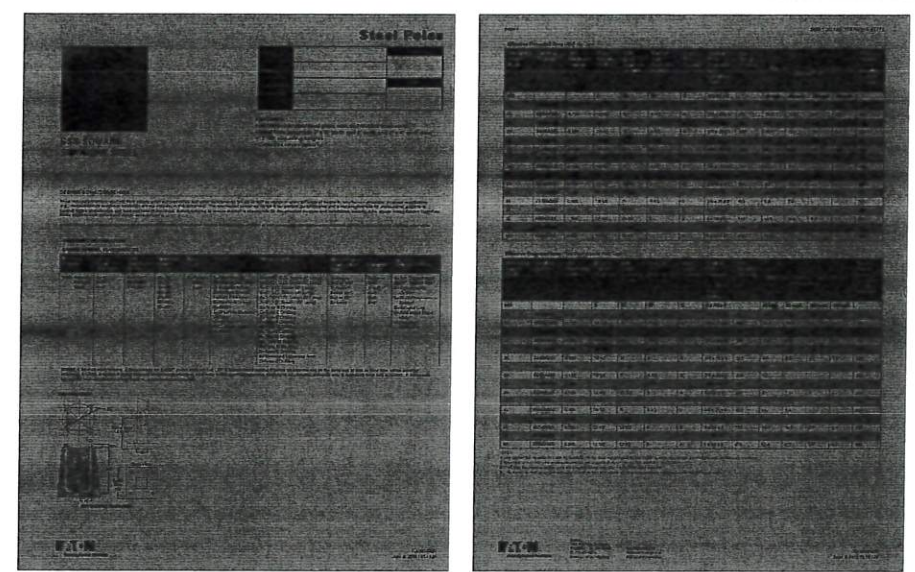
POLE MOUNTED FIXTURES

NOT TO SCALE



WALL MOUNTED FIXTURES

NOT TO SCALE



LIGHTING POLES

NOT TO SCALE

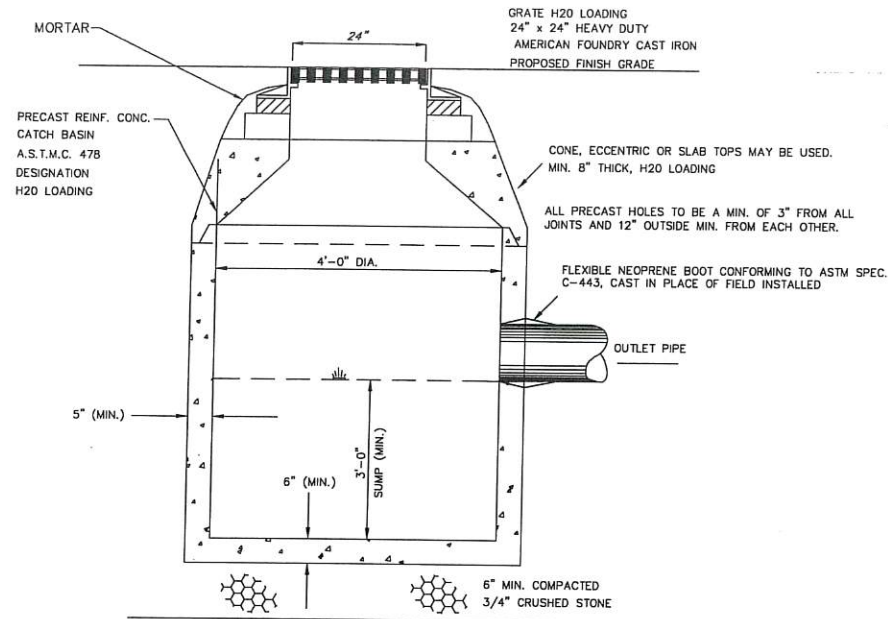
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PH: 603-942-9920
WEBSITE: NH.LANDCONSULTANTS.COM

LANDSCAPE & LIGHTING DETAILS
TAX MAP 251 LOT 63
2A TACTICAL, LLC
99 TOLAND ROAD, BARRINGTON, NH 03825
OWNED BY
STEVEN & PAMELA LENZI
TRS REV TRUST
304 YOUNG ROAD, BARRINGTON, NH 03825
BOOK 4502 PAGE 1000

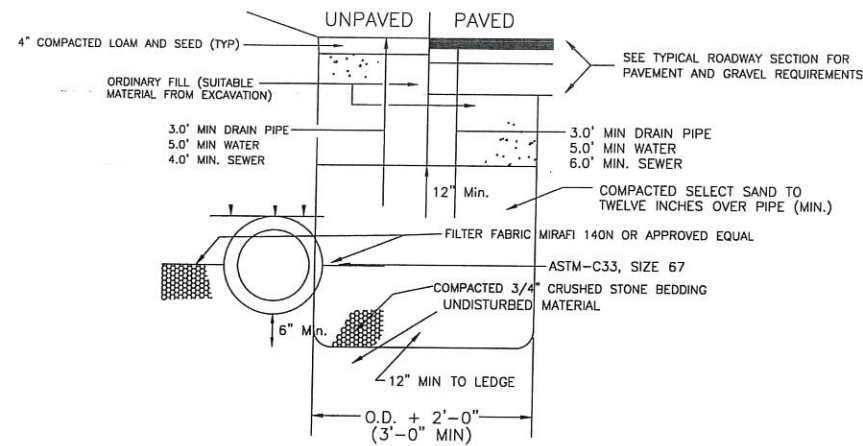
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JOB NO: 400.00
DATE: JULY 13, 2021
DET- 3
SHT. 14 of 18

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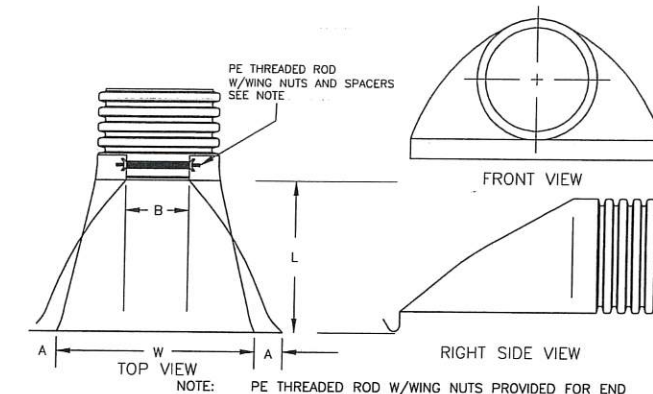
TYPICAL PRECAST OUTLET STRUCTURE & CATCH BASIN DETAIL

NOT TO SCALE

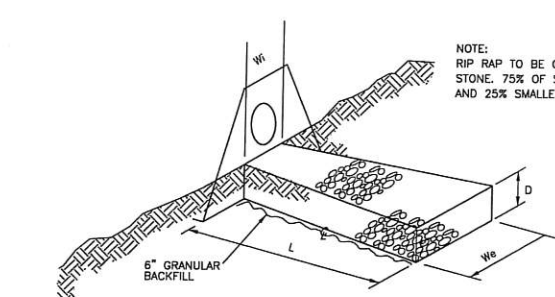


DRAIN PIPE TRENCH

- NOTES:
- ALL DRAIN PIPE SHALL BE ADS N-12 CORRUGATED PLASTIC PIPE (CPP), UNLESS OTHERWISE NOTED IN THE DRAWINGS.
 - SELECT SAND TO 12" ABOVE PIPE SHALL BE AS FOLLOWS:
 - 100% PASSING A 1/2 INCH SIEVE
 - 15%(MAX) PASSING A NO. 200 SIEVE
 - FREE FROM ORGANIC MATERIALS
 - ALL WATER PIPE TO BE CLASS 52 DUCTILE IRON.
 - ALL SEWER TO BE SDR 35 PVC.



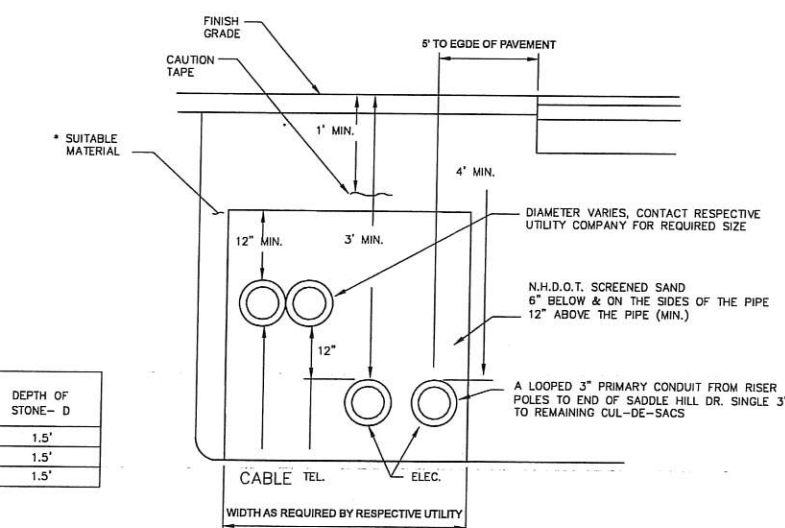
PART #	PIPE SIZE	A	B (MAX)	H	L
1210NP	12 IN	6.50 IN	10.00 IN	6.50 IN	25.00 IN
1510NP	15 IN	6.50 IN	10.00 IN	6.50 IN	25.00 IN
1810NP	18 IN	7.50 IN	15.00 IN	6.50 IN	32.00 IN
2410NP	24 IN	7.50 IN	18.00 IN	6.50 IN	36.00 IN
3015NP	30 IN	7.50 IN	12.00 IN	8.60 IN	58.00 IN
3615NP	36 IN	7.50 IN	25.00 IN	8.60 IN	58.00 IN



DESCRIPTION	LENGTH L	INVERT WIDTH Wi	END WIDTH We	STONE D50	DEPTH OF STONE - D
FES 1 FOREBAY	15'	4'	17'	6"	1.5'
FES 2	12'	4'	13'	6"	1.5'
FES 3	10'	4'	11'	6"	1.5'

RIP-RAP SPECIFICATIONS

NOT TO SCALE



* SUITABLE MATERIAL: IN ROADS, ROAD SHOULDERS, WALKWAYS AND TRAVELED WAYS, SUITABLE MATERIAL FOR TRENCH BACK FILL SHALL BE THE NATURAL MATERIAL EXCAVATED DURING THE COURSE OF CONSTRUCTION, BUT SHALL EXCLUDE DEBRIS, PIECES OF PAVEMENT, ORGANIC MATTER, TOP SOIL, ALL WET OR SOFT MUCK, PEAT OR CLAY, ALL EXCAVATED LEDGE MATERIAL AND ALL ROCKS OVER SIX INCHES IN THE LARGEST DIMENSION, OR ANY MATERIAL, WHICH, AS DETERMINED BY THE TOWN ENGINEERS, WILL NOT PROVIDE SUFFICIENT SUPPORT OR MAINTAIN THE COMPLETED CONSTRUCTION IN A STABLE CONDITION. SUITABLE MATERIAL SHALL BE PLACED IN 6" LIFTS AND THOROUGHLY COMPACTED.

IN CROSS-COUNTRY CONSTRUCTION, SUITABLE MATERIAL SHALL BE DESCRIBED AS ABOVE, EXCEPT THAT THE TOWN ENGINEERS MAY PERMIT THE USE OF TOP SOIL, LOAM, OR PEAT, IF SATISFIED THE COMPLETED CONSTRUCTION WILL BE ENTIRELY STABLE AND PROVIDED THAT THE EASY ACCESS TO THE STRUCTURES FOR MAINTENANCE AND POSSIBLY RECONSTRUCTION, WHEN NECESSARY WILL BE PRESERVED SUITABLE MATERIAL SHALL BE PLACED IN 12" LIFTS AND THOROUGHLY COMPACTED.

- NOTES:
- UTILITIES SHALL BE INSTALLED ACCORDING TO THE RESPECTIVE UTILITY COMPANY STANDARDS AND SPECIFICATIONS.
 - ALL ABOVE GRADE UTILITIES MUST BE PLACED OUT OF THE R.O.W. AND IN AREAS THAT WILL NOT CONFLICT WITH THE ROADWAY DRAINAGE SYSTEM. PLACEMENT OF TRANSFORMERS CANNOT CONFLICT WITH THE INSTALLATION OF R.O.W. AND PROPERTY CORNER MONUMENTS.

UNDERGROUND UTILITIES TRENCH

NOT TO SCALE

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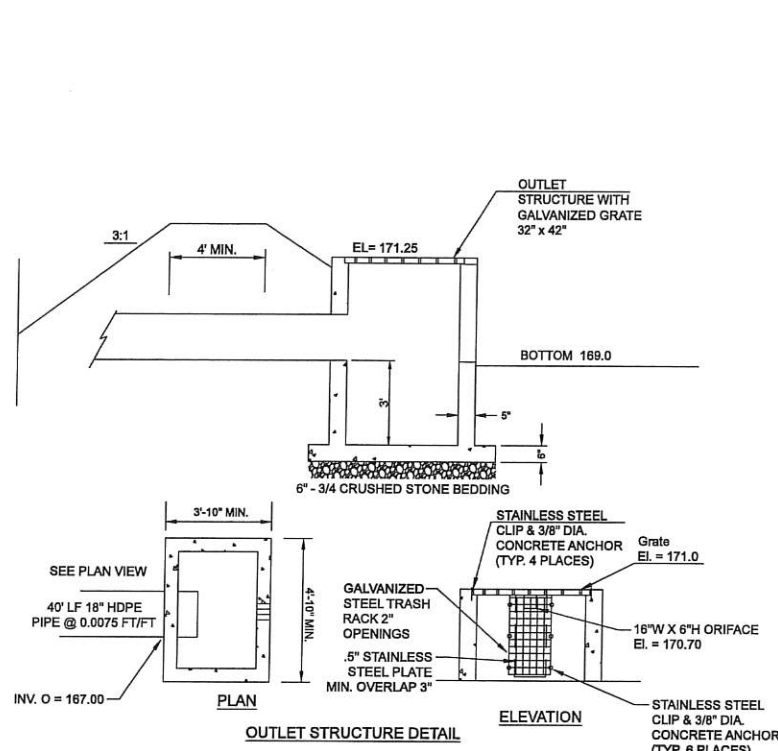
SCALE AS SHOWN



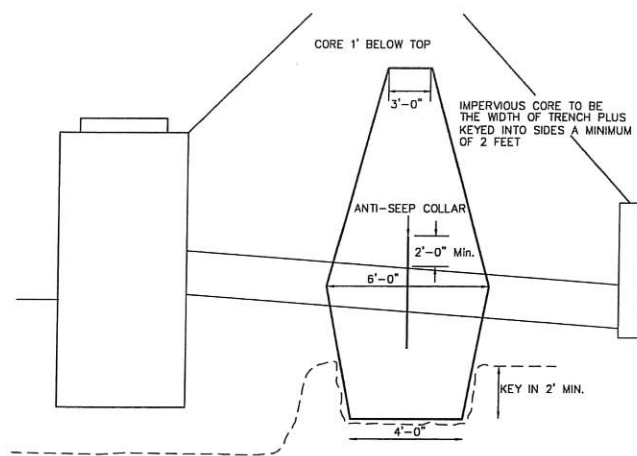
DRAINAGE DETAILS -1
 TAX MAP 251 LOT 63
2A TACTICAL, LLC
 99 TOLAND ROAD, BARRINGTON, NH 03825
 OWNED BY
STEVEN & PAMELA LENZI
TRS REV TRUST
 304 YOUNG ROAD, BARRINGTON, NH 03825
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INFILTRATION POND OUTLET STRUCTURE
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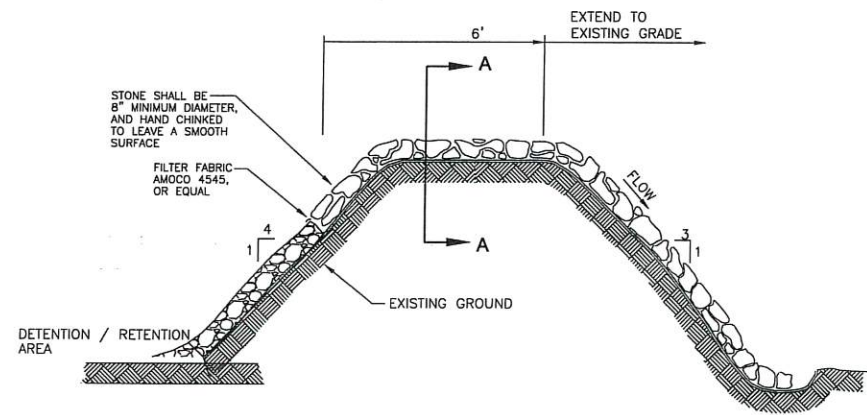


NOTES: IMPERVIOUS CORE AND SOIL

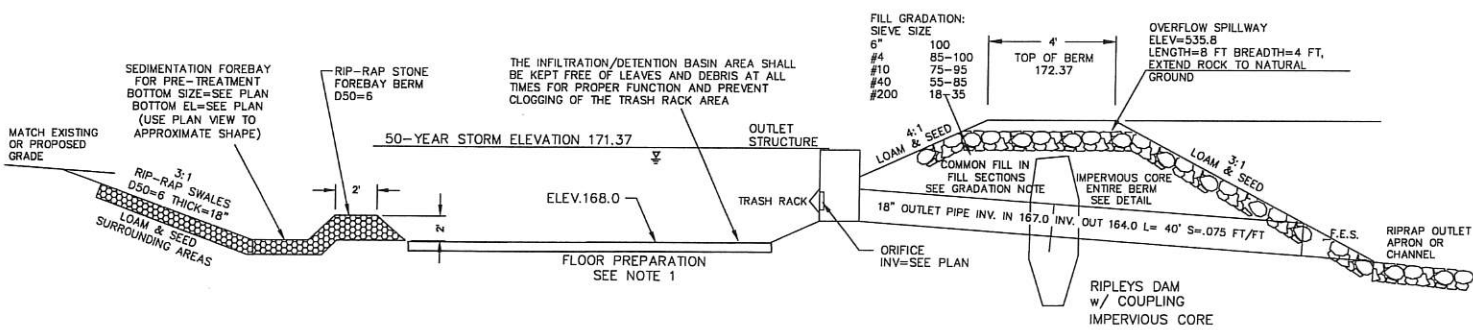
- IMPERVIOUS CORE AND POND LINER SOIL SAMPLES AND SEVE ANALYSIS TO BE SUBMITTED FOR APPROVAL PRIOR TO CONSTRUCTION. IMPERVIOUS SOILS TO MEET THE FOLLOWING CRITERIA. SOIL SHALL HAVE NO ORGANIC MATTER OR FROZEN MATERIAL AND NO STONES LARGER THAN 2/3 OF THE MAXIMUM LIFT SIDE. STONES AROUND ANY STRUCTURES AND/OR CONDUITS SHALL NOT EXCEED 3 INCHES. FILL MATERIAL SHALL HAVE THE FOLLOWING GRADATION:

SIEVE SIZE:	% PASSING
#4	95 - 100
#10	60 - 90
#40	40 - 60
#200	25 - 45

- THE CONTRACTOR SHALL USE CARE NOT TO OVER EXCAVATE AND DISTURB THE EXISTING SOIL AT THE BERM AND OUTLET PIPE AREAS.
- IMPERVIOUS SOIL SHALL BE INSTALLED WITHIN THE LIMITS SHOWN ALONG THE BERM AREA. THE SOIL SHALL BE KEYED 12" INTO THE BOTTOM OF THE POND AND SHALL BE PLACED IN LIFTS NOT EXCEEDING 9" AND COMPACTED TO A MINIMUM 95% OF THE WET WEIGHT AS DETERMINED BY MODIFIED TESTING (ASTM 1557)
- AT THE IMPERVIOUS DAM AREA, THE DAM SHALL BE KEYED INTO TO BOTTOM AND SIDES OF THE TRENCH A MINIMUM OF 2'. THE IMPERVIOUS SOIL SHALL BE PLACED IN LIFTS NOT EXCEEDING 9" AND COMPACTED TO A MINIMUM 95% OF THE WET WEIGHT AS DETERMINED BY MODIFIED TESTING (ASTM 1557)



SECTION A-A
DETENTION BASIN OVERFLOW WIER
NOT TO SCALE



INFILTRATION BASIN NOTES:

- BED CONSTRUCTION**
- BASIN FLOOR CONSTRUCTION - THE BASIN FLOOR SHALL NOT BE TRAFFICED WITH CONSTRUCTION EQUIPMENT. ONCE THE BASIN IS EXCAVATED TO THE FINAL DESIGN ELEVATION THE FLOOR SHALL BE DEEPLY TILLED TO RESTORE THE INFILTRATION RATE. ONCE TILLED THE AREA CAN BE PASSED WITH A LEVELING DRAG. THE FLOOR SHALL RECEIVE A 6" LAYER OF VERY CLEAN COARSE SAND OR 3/8" PEA STONE
- NOTES**
- DO NOT DISCHARGE SEDIMENT-LADEN WATERS FROM CONSTRUCTION ACTIVITIES (RUNOFF, WATER FROM EXCAVATIONS) TO THE INFILTRATION BASIN.
 - DO NOT TRAFFIC EXPOSED SOIL SURFACE WITH CONSTRUCTION EQUIPMENT. IF FEASIBLE, PERFORM EXCAVATIONS WITH EQUIPMENT POSITIONED OUTSIDE THE LIMITS OF THE INFILTRATION SYSTEM.
 - AFTER THE INFILTRATION SYSTEM AREA IS EXCAVATED TO THE BOTTOM OF THE FILTER MEDIA, THE FLOOR SHOULD BE DEEPLY TILLED WITH A ROTARY TILLER OR DISC HARROW TO RESTORE INFILTRATION RATES, FOLLOWED BY A PASS WITH A LEVELING DRAG, THEN APPLY THE FILTER MEDIA.
 - VEGETATION WITHIN THE BASIN 18 INCHES ABOVE THE FILTER MEDIA ELEVATION ON THE SIDE SLOPES SHOULD BE ESTABLISHED IMMEDIATELY.
 - DO NOT PLACE INFILTRATION SYSTEMS INTO SERVICE UNTIL THE CONTRIBUTING AREAS HAVE BEEN FULLY STABILIZED.

INFILTRATION BASIN DETAIL

SECTION

NOT TO SCALE

SAFETY

- PONDS THAT ARE EASILY ACCESSIBLE IN POPULATED AREAS SHOULD INCORPORATE ALL POSSIBLE SAFETY PRECAUTIONS. DUE TO ONLY TEMPORARY WATER LEVELS IN THESE BASINS, FENCING IS NOT NECESSARY.

MAINTENANCE

- MAINTENANCE IS NECESSARY IF THE BASIN IS TO CONTINUE TO FUNCTION AS DESIGNED. THE LANDOWNER MUST BE AWARE OF THE REQUIREMENTS FOR A PROPERLY OPERATIONAL BASIN AND A PLAN BE DEVELOPED FOR REGULAR SCHEDULED MAINTENANCE.
- THE EMBANKMENT SHOULD BE INSPECTED TO DETERMINE IF RODENT BURROWS, WET AREAS OR EROSION OF THE FILL IS TAKING PLACE.
- THE VEGETATION SHOULD BE PROTECTED FROM DAMAGE BY FIRE, GRAZING, TRAFFIC AND DENSE WEED GROWTH. LIME AND FERTILIZER SHOULD BE APPLIED AS NECESSARY AS DETERMINED BY SOIL TESTS. TREES AND SHRUBS SHOULD BE KEPT OFF THE EMBANKMENT AND EMERGENCY SPILLWAY AREAS.
- PIPE INLETS AND SPILLWAY STRUCTURES SHOULD BE INSPECTED ANNUALLY AND AFTER EVERY MAJOR STORM. ACCUMULATED DEBRIS AND SEDIMENT SHOULD BE REMOVED. IF PIPES ARE COATED, THE COATING SHOULD BE CHECKED AND REPAIRED AS NECESSARY.
- PIPE OUTLETS SHOULD BE INSPECTED ANNUALLY AND AFTER EVERY MAJOR STORM. THE CONDITION OF THE PIPES SHOULD BE NOTED AND REPAIRS MADE AS NECESSARY. IF EROSION IS TAKING PLACE, THEN MEASURES SHOULD BE TAKEN TO STABILIZE AND PROTECT THE AFFECTED AREA OF THE OUTLET.
- SEDIMENT SHOULD BE CONTINUALLY CHECKED IN THE BASIN. WHEN SEDIMENT ACCUMULATIONS REACHED THE PREDETERMINED DESIGN ELEVATION, THEN THE SEDIMENT SHOULD BE REMOVED AND PROPERLY DISPOSED OF.

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SCALE AS SHOWN

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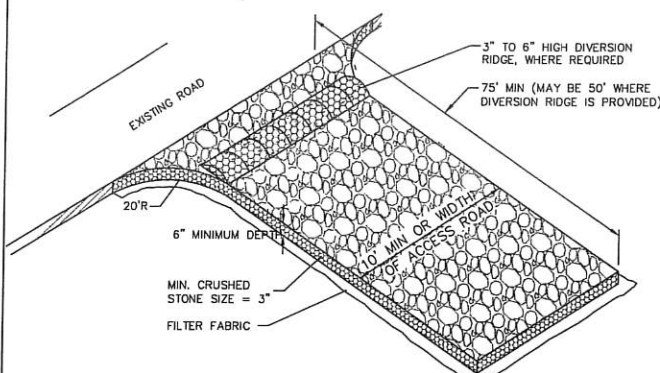
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- MAINTENANCE**
- THE EXIT SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. WHEN THE CONTROL PAD BECOMES INEFFECTIVE, THE STONE SHALL BE REMOVED ALONG WITH THE COLLECTED SOIL MATERIAL, REGRADED ON SITE, AND STABILIZED. THE ENTRANCE SHALL THEN BE RECONSTRUCTED.
 - THE CONTRACTOR SHALL SWEEP THE PAVEMENT AT EXITS WHENEVER SOIL MATERIALS ARE TRACKED ONTO THE ADJACENT PAVEMENT OR TRAVELED WAY.
 - WHEN WHEEL WASHING IS REQUIRED, IT SHALL BE CONDUCTED ON AN AREA STABILIZED WITH AGGREGATE, WHICH DRAINS INTO AN APPROVED SEDIMENT-TRAPPING DEVICE. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING STORM DRAINS, DITCHES, OR WATERWAYS.
- CONSTRUCTION SPECIFICATIONS**
- ONLY CONSTRUCTION TRAFFIC LEAVING THE SITE IS REQUIRED TO USE THE TEMPORARY STABILIZED EXIT. CONSIDER PROVIDING A SEPARATE, UNPROTECTED, ENTRANCE FOR TRAFFIC ENTERING THE SITE. THIS WILL INCREASE THE LONGEVITY OF THE STABILIZED EXIT BY ELIMINATING HEAVY LOADS ENTERING THE SITE AND REDUCING THE TOTAL TRAFFIC OVER THE DEVICE.
 - 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 MAINTENANCE OF ANY MEASURES USED TO TRAP SEDIMENT.
 - STONE FOR A TEMPORARY CONSTRUCTION EXIT SHALL BE 3 INCH STONE, RECLAIMED STONE, OR RECYCLED CONCRETE EQUIVALENT.
 - THE MINIMUM LENGTH OF THE PAD SHALL BE 75 FEET, EXCEPT THAT THE MINIMUM LENGTH MAY BE REDUCED TO 50 FEET IF A 3-INCH TO 6-INCH HIGH BERM IS INSTALLED AT THE ENTRANCE OF THE PROJECT SITE.
 - THE THICKNESS OF THE STONE FOR THE STABILIZED ENTRANCE SHALL NOT BE LESS THAN 6 INCHES.
 - THE WIDTH OF THE ENTRANCE SHALL NOT BE LESS THAN THE FULL WIDTH OF THE EXIT OR 10 FEET, WHICH EVER IS GREATER.
 - GEOTEXTILE FILTER CLOTH SHALL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING THE STONE.
 - ALL SURFACE WATER THAT IS FLOWING TO OR DIVERTED TOWARD THE CONSTRUCTION EXIT 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.

TEMPORARY CONSTRUCTION EXIT

NOT TO SCALE

CONSTRUCTION SEQUENCES:

NOTE: - ALL EROSION CONTROLS TO BE INSPECTED WEEKLY AND AFTER EVERY .5" OF RAINFALL. MAXIMUM AREA TO BE DISTURBED AT ONE TIME IS 5 ACRES.

- PRIOR TO CONSTRUCTION INSTALL FABRIC SILTATION FENCING AS SHOWN ON PLAN. CONSTRUCT TEMPORARY STABILIZED ENTRANCE, AND INSTALL OTHER APPROPRIATE SEDIMENT AND EROSION CONTROL.
- CUT AND CLEAR ALL VEGETATION AND STUMPS FROM CUT SLOPES, PONDS, AND SWALE AREAS.
- COMPLETE TEMPORARY SEDIMENT BASINS AT POND LOCATIONS. BASIN AND SWALES MUST BE STABILIZED PRIOR TO DIRECTING RUNOFF TO THEM. CONSTRUCT BERMS AND SWALES TO DIRECT STORMWATER TO BASINS. SEDIMENT BASINS LOCATED WITHIN PROPOSED INFILTRATION BASIN AREAS ARE TO BE CONSTRUCTED A MINIMUM OF 1' ABOVE THE FINAL BASIN FLOOR ELEVATION.
- AN AREA IS CONSIDERED STABLE IF:
 - BASE COURSE GRAVELS HAVE BEEN INSTALLED IN AREAS TO BE PAVED;
 - A MINIMUM OF 85% VEGETATED GROWTH HAS BEEN ESTABLISHED;
 - A MINIMUM OF 3" OF NON-EROSIVE MATERIAL SUCH AS STONE, OR RIP-RAP HAS BEEN INSTALLED; OR
 - EROSION CONTROL BLANKETS HAVE BEEN PROPERLY INSTALLED.
- CUT AND CLEAR ALL VEGETATION AND STUMPS FROM AREAS TO BE DISTURBED FOR THE CONSTRUCTION OF THE PROPOSED ROADWAY.
- REMOVE TOPSOIL AND OTHER ORGANIC MATERIALS FROM AREAS TO BE DISTURBED. ALL SUCH TOPSOIL REMOVED SHALL BE STOCKPILED FOR LATER USE. ALL STOCKPILES SHALL BE SEEDING AND MULCHED TO PREVENT LOSS DUE TO EROSION, AND ENCLOSED WITH FABRIC SILT FENCE. WHEN CONSTRUCTION ACTIVITIES ARE TEMPORARILY CEASED FOR MORE THAN 21 DAYS, PERMANENTLY CEASED, OR SHUT DOWN FOR WINTER, THE CONTRACTOR SHALL LEAVE NO SLOPES STEEPER THAN 3:1 AND SHALL IMPLEMENT TEMPORARY LOAMING, SEEDING AND MULCHING, WHERE CONSTRUCTION ACTIVITIES HAVE BEEN SUSPENDED OUTSIDE THE GROWING SEASON ALL EXPOSED SOIL SHALL BE STABILIZED BY MULCHING, AND ALL SLOPES GREATER THAN 3:1 SHALL BE STABILIZED WITH NETTING & PINNING.
- CONSTRUCT, CUT, AND FILL SLOPES. ALL CUT AND FILL SLOPES TO BE STABILIZED IMMEDIATELY AFTER CONSTRUCTION. ALL SLOPES GREATER THAN 3:1 TO BE STABILIZED WITH JUTE MATTING. ALL CUT AND FILL SLOPES SHALL BE SEEDING AND LOADED WITHIN 72 HOURS OF ACHIEVING FINISH GRADE.
- CONSTRUCT STORM DRAINAGE, AND OTHER UNDERGROUND UTILITIES. ALL SWALES TO BE PROTECTED WITH TEMPORARY EROSION CONTROL MEASURES SHOWN. ALL CATCH BASIN OPENINGS TO BE PROTECTED WITH BLOCK AND GRAVEL INLET SEDIMENT FILTERS AS SHOWN. SEDIMENT TRAPS AND/OR BASINS SHOULD BE USED UNTIL BASINS/PONDS ARE STABILIZED.
- BEGIN TOP SOILING, SEEDING AND MULCHING IMMEDIATELY AFTER COMPLETION OF EMBANKMENTS. TEMPORARY EROSION CONTROL / DIVERSION CHANNELS SHALL BE IMPLEMENTED WHERE REQUIRED TO PREVENT EROSION OF EMBANKMENTS. ANY EROSION OCCURRING SHALL BE REPAIRED IMMEDIATELY UPON DISCOVERY.
- FINISH GRADING & PAVING. ALL ROADWAYS AND PARKING LOTS SHALL BE STABILIZED WITHIN 72 HOURS OF ACHIEVING FINISH GRADES.
- ALL PAVED AREAS TO BE COMPLETED BY OCTOBER 15. ALL LANDSCAPED AREAS TO BE STABILIZED BY OCTOBER 15TH, WITH HAY MULCH AND SEED.
- COMPLETE PERMANENT SEEDING AND MULCHING OF ALL DISTURBED AREAS. ALL TEMPORARY EROSION CONTROL MEASURES TO REMAIN IN PLACE UNTIL A FULL VEGETATIVE COVER HAS BEEN ESTABLISHED ON ALL DISTURBED AREAS.
- SILT FENCES AND HAY BALE BARRIERS TO BE REMOVED ONCE THE SITE HAS STABILIZED.

- MAINTENANCE REQUIREMENTS**
- TEMPORARY SEEDING SHALL BE INSPECTED WEEKLY AND AFTER ANY RAINFALL EXCEEDING 1/2 INCH IN 24 HOURS ON ACTIVE CONSTRUCTION SITES. TEMPORARY SEEDING SHALL ALSO BE INSPECTED JUST PRIOR TO SEPTEMBER 15, TO ASCERTAIN WHETHER ADDITIONAL SEEDING IS REQUIRED TO PROVIDE STABILIZATION OVER THE WINTER PERIOD.
 - BASED ON INSPECTION, AREAS SHALL BE RESEEDING TO ACHIEVE FULL STABILIZATION OF EXPOSED SOILS. IF IT IS TOO LATE IN THE PLANTING SEASON TO APPLY ADDITIONAL SEED, THEN OTHER TEMPORARY STABILIZATION MEASURES SHALL BE IMPLEMENTED.
 - AT A MINIMUM, 85% OF THE SOIL SURFACE SHALL BE COVERED BY VEGETATION.
 - IF ANY EVIDENCE OF EROSION OR SEDIMENTATION IS APPARENT, REPAIRS SHALL BE MADE AND AREAS SHALL BE RESEEDING, WITH OTHER TEMPORARY MEASURES (E.G., MULCH) USED TO PROVIDE EROSION PROTECTION DURING THE PERIOD OF VEGETATION ESTABLISHMENT.

- SPECIFICATIONS**
- SILT PREPARATION:**
- INSTALL NEEDED EROSION AND SEDIMENT CONTROL MEASURES SUCH AS SILTATION BARRIERS, DIVERSIONS, AND SEDIMENT TRAPS.
 - GRADE AS NEEDED FOR THE ACCESS OF EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH APPLICATION, AND MULCH ANCHORING.
 - RUNOFF SHALL BE DIVERTED FROM THE SEEDING AREA.
- ON SLOPES 4:1 OR STEEPER, THE FINAL PREPARATION SHALL INCLUDE CREATING HORIZONTAL GROOVES PERPENDICULAR TO THE DIRECTION OF THE SLOPE TO CATCH SEED AND REDUCE RUNOFF.**

- SEEDING PREPARATION:**
- STONES AND TRASH SHALL BE REMOVED SO AS NOT TO INTERFERE WITH THE SEEDING AREA.
 - WHERE THE SOIL HAS BEEN COMPACTED BY CONSTRUCTION OPERATIONS, LOOSEN SOIL TO A DEPTH OF 2 INCHES BEFORE APPLYING FERTILIZER, LIME AND SEED.

- IF APPLICABLE, FERTILIZER AND ORGANIC SOIL AMENDMENTS SHALL BE APPLIED DURING THE GROWING SEASON.**
- APPLY LIMESTONE AND FERTILIZER ACCORDING TO SOIL TEST RECOMMENDATIONS. IF SOIL TESTING IS NOT FEASIBLE ON SMALL OR VARIABLE SITES, OR WHERE TIMING IS CRITICAL, FERTILIZER MAY BE APPLIED AT THE RATE OF 1000 POUNDS PER ACRE OR 13.8 POUNDS PER 1,000 SQUARE FEET OF LOW PHOSPHATE FERTILIZER (N-P2O5-K2O) OR EQUIVALENT. APPLY LIMESTONE (EQUIVALENT TO 50 PERCENT CALCIUM PLUS MAGNESIUM OXIDE) AT A RATE OF 3 TONS PER ACRE (138 LB. PER 1,000 SQUARE FEET).
- FERTILIZER SHALL BE RESTRICTED TO A LOW PHOSPHATE, SLOW RELEASE NITROGEN FERTILIZER WHEN APPLIED TO AREAS BETWEEN 25 FEET AND 250 FEET OF A SURFACE WATER BODY. NO FERTILIZER EXCEPT LIMESTONE SHALL BE APPLIED WITHIN 25 FEET OF A SURFACE WATER BODY. THESE LIMITATIONS ARE REQUIREMENTS FOR ANY WATER BODY PROTECTED BY THE COMPREHENSIVE SHORELAND PROTECTION ACT.

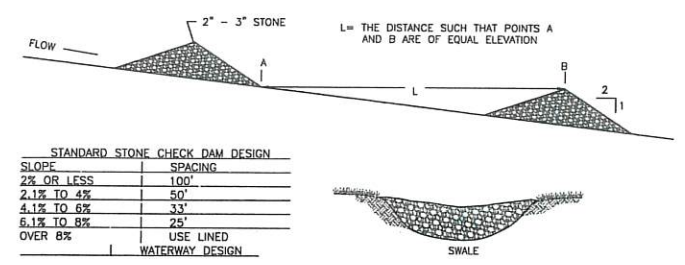
- SEEDING:**
- SELECT SEED FROM RECOMMENDATIONS IN TABLE 4-1.
 - APPLY SEED UNIFORMLY BY HAND, CYCLONE SEEDER, DRILL, CULPACKER TYPE SEEDER OR HYDROSEEDER (SLURRY INCLUDING SEED AND FERTILIZER). NORMAL SEEDING DEPTH IS FROM 1/4 TO 1/2 INCH. HYDROSEEDING THAT INCLUDES MULCH MAY BE LEFT ON SOIL SURFACE. SEEDING RATES MUST BE INCREASED TO 1/2 WHEN HYDROSEEDING.
 - TEMPORARY SEEDING SHALL TYPICALLY OCCUR PRIOR TO SEPTEMBER 15TH.
 - AREAS SEEDING BETWEEN MAY 15TH AND AUGUST 15TH SHALL BE COVERED WITH HAY OR STRAW MULCH, ACCORDING TO THE "TEMPORARY AND PERMANENT MULCHING" PRACTICE.
 - VEGETATED GROWTH COVERING AT LEAST 85% OF THE DISTURBED AREA SHALL BE ACHIEVED PRIOR TO OCTOBER 15TH. IF THIS CONDITION IS NOT ACHIEVED, IMPLEMENT OTHER TEMPORARY STABILIZATION MEASURES FOR OVERWINTER PROTECTION.

TABLE 4-1. SEEDING RECOMMENDATIONS FOR TEMPORARY VEGETATION

SPECIES	(BU.) OR POUNDS (LBS.)	PER 1,000 FT2	REMARKS
WINTER RYE	2 BU. OR 112 LBS.	2.5 LBS.	BEST FOR FALL SEEDING. SEED FROM AUGUST 15 TO SEPTEMBER 15 FOR BEST COVER. SEED TO A DEPTH OF 1 INCH.
OATS	2.5 BU. OR 80 LBS.	2 LBS.	BEST FOR SPRING SEEDINGS. SEED NO LATER THAN MAY 15 FOR SUMMER PROTECTION. SEED TO A DEPTH OF 1 INCH.
ANNUAL RYEGRASS	40 LBS.	1 LB.	GROWS QUICKLY, BUT IS OF SHORT DURATION. USE WHERE APPEARANCES ARE IMPORTANT. SEED EARLY SPRING AND/OR BETWEEN AUGUST 15 AND SEPTEMBER 15. COVER THE SEED WITH NO MORE THAN 0.25 INCH OF SOIL.
PERENNIAL RYEGRASS	30 LBS.	0.7 LB.	GOOD COVER WHICH IS LONGER LASTING THAN ANNUAL RYEGRASS. SEED BETWEEN APRIL 1 AND JUNE 1 AND/OR BETWEEN AUGUST 15 AND SEPTEMBER 15. MULCHING WILL ALLOW SEEDING THROUGHOUT THE GROWING SEASON. SEED TO A DEPTH OF APPROXIMATELY 0.5 INCH.

TEMPORARY VEGETATION

NOT TO SCALE



STANDARD STONE CHECK DAM DESIGN

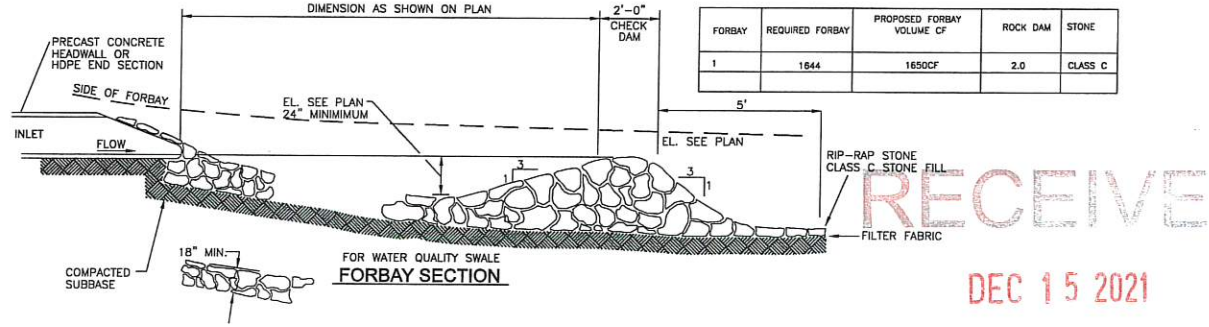
SLOPE	SPACING
2% OR LESS	100'
2.1% TO 4%	50'
4.1% TO 6%	33'
6.1% TO 8%	25'
OVER 8%	USE LINED WATERWAY DESIGN

- CONSIDERATIONS**
- THIS PRACTICE IS INTENDED FOR USE IN AREAS OF CONCENTRATED FLOW, BUT MUST NOT BE USED IN STREAM CHANNELS (WHETHER PERENNIAL OR INTERMITTENT).
 - THE CHECK DAM MAY BE LEFT IN PLACE PERMANENTLY TO AVOID UNNECESSARY DISTURBANCE OF THE SOIL ON REMOVAL, BUT ONLY IF THE PROJECT DESIGN HAS ACCOUNTED FOR THEIR HYDRAULIC PERFORMANCE AND CONSTRUCTION PLANS CALL FOR THEM TO BE RETAINED.
 - IF IT IS NECESSARY TO REMOVE A STONE CHECK DAM FROM A GRASSLINED CHANNEL THAT WILL BE MOVED, CARE SHALL BE TAKEN TO ENSURE THAT ALL STONES ARE REMOVED. THIS INCLUDES STONE THAT HAS WASHED DOWNSTREAM.

- MAINTENANCE REQUIREMENTS**
- CHECK DAMS SHALL BE INSPECTED AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL AND NECESSARY REPAIRS SHALL BE MADE IMMEDIATELY.
 - INSPECTIONS SHALL VERIFY THAT THE CENTER OF THE DAM IS LOWER THAN THE EDGES.
 - EROSION CAUSED BY HIGH FLOWS AROUND THE EDGES OF THE DAM MUST BE CORRECTED IMMEDIATELY.
 - IF EVIDENCE OF SILTATION IN THE WATER IS APPARENT DOWNSTREAM FROM THE CHECK DAM, THE CHECK DAM SHALL BE INSPECTED AND ADJUSTED IMMEDIATELY.
 - CHECK DAMS SHALL BE CHECKED FOR SEDIMENT ACCUMULATION AFTER EACH SIGNIFICANT RAINFALL. SEDIMENT SHALL BE REMOVED WHEN IT REACHES ONE HALF OF THE ORIGINAL HEIGHT OR BEFORE.
- SPECIFICATIONS**
- CHECK DAMS SHALL BE INSTALLED BEFORE RUNOFF IS DIRECTED TO THE SWALE OR DRAINAGE DITCH.
 - THE MAXIMUM CONTRIBUTING DRAINAGE AREA TO THE DAM SHALL BE LESS THAN ONE ACRE.
 - THE MAXIMUM HEIGHT OF THE DAM SHALL BE 2 FEET.
 - THE CENTER OF THE DAM SHALL BE AT LEAST 6 INCHES LOWER THAN THE OUTER EDGES.
 - THE MAXIMUM SPACING BETWEEN THE DAMS SHALL BE SUCH THAT THE TOE OF THE UPSTREAM DAM IS AT THE SAME ELEVATION AS THE OVERTOPPING ELEVATION OF THE DOWNSTREAM DAM.
 - STONE CHECK DAMS SHALL BE CONSTRUCTED OF A WELL-GRADED ANGULAR 2-INCH TO 3-INCH STONE. 3/4-INCH STONE ON THE UPGRADE FACE IS RECOMMENDED FOR BETTER FILTERING.
 - IF PROVIDED BY DESIGN AND CONSTRUCTION PLANS, LEAVE THE DAM IN PLACE PERMANENTLY.
 - TEMPORARY STRUCTURES SHALL BE REMOVED ONCE THE SWALE OR DITCH HAS BEEN STABILIZED.
 - IN TEMPORARY DITCHES AND SWALES, CHECK DAMS SHALL BE REMOVED AND THE DITCH FILLED IN WHEN IT IS NO LONGER NEEDED.
 - IN PERMANENT STRUCTURES, CHECK DAMS SHALL BE REMOVED WHEN A PERMANENT LINING HAS BEEN ESTABLISHED. IF THE PERMANENT LINING IS VEGETATION, THEN THE CHECK DAM SHALL BE RETAINED UNTIL THE GRASS HAS MATURED TO PROTECT THE DITCH OR SWALE. THE AREA BENEATH THE CHECK DAM MUST BE SEEDING AND MULCHED IMMEDIATELY AFTER REMOVAL.

TEMPORARY STONE CHECK DAMS

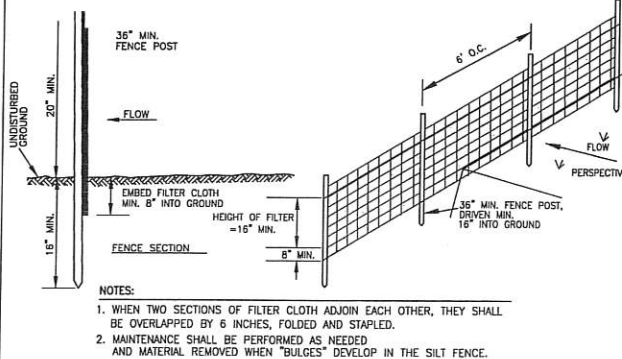
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TEMPORARY STORM DRAIN INLET PROTECTION

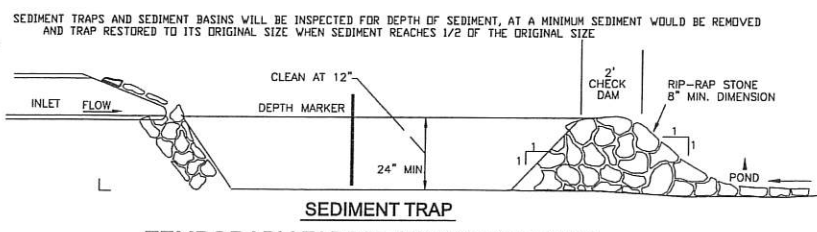
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FORBAY	REQUIRED FORBAY	PROPOSED FORBAY VOLUME CF	ROCK DAM	STONE
1	1844	1650CF	2.0	CLASS C



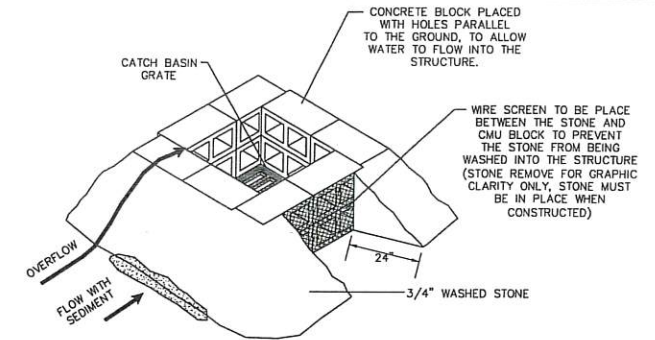
TEMPORARY FABRIC SILTATION FENCE

NOT TO SCALE



SEDIMENT TRAP

NOT TO SCALE



MAINTENANCE REQUIREMENTS

- INLET BARRIERS SHALL BE INSPECTED BEFORE AND AFTER EACH RAIN EVENT AND REPAIRED AS NEEDED.
- SEDIMENT SHALL BE REMOVED AND THE STORM DRAIN SEDIMENT BARRIER RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO 1/2 THE DESIGN DEPTH OF THE BARRIER. REMOVED SEDIMENT SHALL BE DEPOSITED IN A SUITABLE AREA AND IN SUCH A MANNER THAT IT WILL NOT ERODE.
- THE BARRIERS SHALL BE REMOVED AND THE AREA STABILIZED WHEN THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.
- ALL CATCH BASINS AND STORM DRAIN INLETS MUST BE CLEANED AT THE END OF CONSTRUCTION AND AFTER THE SITE HAS BEEN FULLY STABILIZED.

- SPECIFICATIONS**
- THE MAXIMUM CONTRIBUTING DRAINAGE AREA TO THE TRAP SHALL BE LESS THAN ONE ACRE.
 - THE INLET PROTECTION DEVICE SHALL BE CONSTRUCTED IN A MANNER THAT WILL FACILITATE CLEAN-OUT AND DISPOSAL OF TRAPPED SEDIMENTS AND MINIMIZE INTERFERENCE WITH CONSTRUCTION ACTIVITIES.
 - ANY RESULTANT PONDING OF STORMWATER MUST NOT CAUSE EXCESSIVE INCONVENIENCE OR DAMAGE TO ADJACENT AREAS OR STRUCTURES.
 - THE BLOCKS SHALL BE PLACED LENGTHWISE IN A SINGLE ROW AROUND THE PERIMETER OF THE INLET.
 - THE BLOCK ENDS SHALL ABUT ONE ANOTHER.
 - THE HEIGHT OF THE BARRIER CAN BE VARIED, DEPENDING ON DESIGN NEEDS, BY STACKING COMBINATIONS OF 4-INCH, 8-INCH AND 12-INCH WIDE BLOCKS. THE BARRIER OF BLOCKS AND GRAVEL FILTER SHALL BE A MINIMUM OF 12 INCHES HIGH AND NO MORE THAN 24 INCHES HIGH.
 - A HARDWARE CLOTH OR WIRE MESH SHALL BE PLACED OVER THE OPENINGS OF THE CONCRETE BLOCKS AND EXTEND AT LEAST 12 INCHES AROUND THE OPENING TO PREVENT AGGREGATE FROM BEING TRANSPORTED THROUGH THE OPENINGS IN THE BLOCKS. HARDWARE CLOTH OR COMPARABLE WIRE MESH WITH 1/2-INCH OPENINGS SHALL BE USED.
 - THE GRAVEL FILTER SHALL BE CLEAN COARSE AGGREGATE.
 - THE GRAVEL SHALL BE PLACED AGAINST THE WIRE AND ALONG THE OUTSIDE EDGES OF THE BLOCKS TO THE TOP OF THE BLOCK BARRIER.
 - IF THE STONE FILTER BECOMES CLOGGED WITH SEDIMENT SO THAT IT NO LONGER ADEQUATELY PERFORMS ITS FUNCTION, THE STONE MUST BE PULLED AWAY FROM THE BLOCKS, CLEANED AND REPLACED.

- MANUFACTURED SEDIMENT BARRIERS**
- MANUFACTURED SEDIMENT BARRIERS ARE NOW AVAILABLE THAT COULD BE FUNCTIONALLY EQUIVALENT TO THE BARRIERS LISTED ABOVE. THESE MEASURES ARE ACCEPTABLE AS LONG AS THEY ARE INSTALLED, USED, AND MAINTAINED AS SPECIFIED BY THE VENDOR OR MANUFACTURER, AND PREVENT SEDIMENT FROM ENTERING THE STORM DRAIN SYSTEM. IF SUCH PRODUCTS FAIL TO PERFORM THE REQUIRED SEDIMENT TRAPPING FUNCTION, THEY SHALL BE REMOVED AND REPLACED WITH AN EFFECTIVE ALTERNATIVE BARRIER.

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REVISIONS

NO.	DATE	DESCRIPTION	BY	TOB
1	8/17/2021	REVISED PER TOWN DESIGN REVIEW		
2	9/14/2021	SITE PLAN SUBMITTAL		
3	12/15/2021	REVISIONS OF SITE & BUNFORD ROAD		

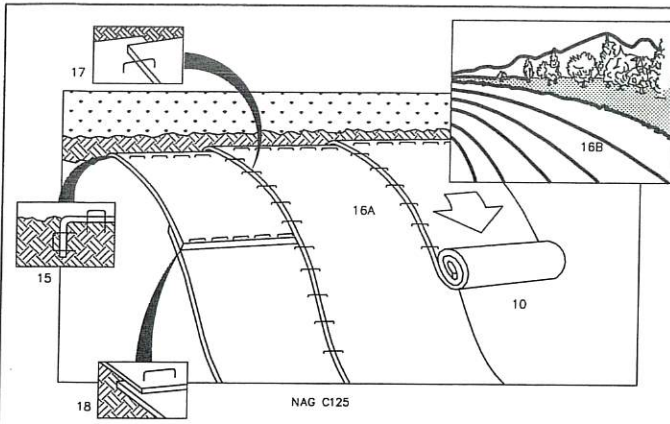
SCALE AS SHOWN

N.H. LAND Consultants
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A Veteran Owned Company

EROSION CONTROL NOTE & DETAILS - 1
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STEVEN & PAMELA LENZI
TRUSTEES
304 YOUNG ROAD, BARRINGTON, NH 03825
BOOK 4502 PAGE 1000

STRAFFORD CO.
JOB NO: 400.00
DATE: JULY 13, 2021
DET-6
SHT. 17 of 18

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CONSIDERATIONS

1. DURING THE GROWING SEASON (APRIL 15 - SEPTEMBER 15) USE MATS OR MULCH AND NETTING ON SLOPES 15% OR GREATER AND ANY DISTURBED SOIL WITHIN 100 FEET OF LAKES, STREAMS AND WETLANDS.
2. DURING THE LATE FALL AND WINTER (SEPTEMBER 15 - APRIL 15) USE HEAVY GRADE MATS ON ALL AREAS NOTED ABOVE PLUS USE LIGHTER GRADE MATS OR MULCH AND NETTING ON SLOPES GREATER THAN 8%. THERE MAY BE CASES WHERE MATS WILL BE NEEDED ON SLOPES FLATTER THAN 8%, DEPENDING ON SITE CONDITIONS AND THE LENGTH OF THE SLOPE.
3. INSTALL MATS AND STAPLE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

MAINTENANCE REQUIREMENTS

4. ALL BLANKET AND MATS SHOULD BE INSPECTED WEEKLY DURING THE CONSTRUCTION PERIOD, AND AFTER ANY RAINFALL EVENT EXCEEDING 1/2 INCH IN A 24-HOUR PERIOD.
5. ANY FAILURE SHOULD BE REPAIRED IMMEDIATELY. IF WASHOUT OF THE SLOPE, DISPLACEMENT OF THE MAT, OR DAMAGE TO THE MAT OCCURS, THE AFFECTED SLOPE SHALL BE REPAIRED AND RESEEDED, AND THE AFFECTED AREA OF MAT SHALL BE RE-INSTALLED OR REPLACED.

SPECIFICATIONS

SITE PREPARATION:

6. GRADE AND SHAPE AREA OF INSTALLATION.
7. REMOVE ALL ROCKS, CLODS, TRASH, VEGETATIVE OR OTHER OBSTRUCTIONS SO THAT THE INSTALLED BLANKETS WILL HAVE DIRECT CONTACT WITH THE SOIL.
8. PREPARE SEEDBED BY LOOSENING 2-3 INCHES OF TOPSOIL ABOVE FINAL GRADE.
9. INCORPORATE AMENDMENTS, SUCH AS LIME AND FERTILIZER, INTO SOIL ACCORDING TO SOIL TEST AND THE SEEDING PLAN.

SEEDING:

10. SEED AREA BEFORE BLANKET INSTALLATION FOR EROSION CONTROL AND RE-VEGETATION. SEEDING AFTER MAT INSTALLATION IS OFTEN SPECIFIED FOR TURF REINFORCEMENT APPLICATION. WHEN SEEDING PRIOR TO BLANKET INSTALLATION, ALL CHECK SLOTS AND OTHER AREAS DISTURBED DURING INSTALLATION MUST BE RESEEDED.
11. WHERE SOIL FILLING IS SPECIFIED, SEED THE MATTING AND THE ENTIRE DISTURBED AREA AFTER INSTALLATION AND PRIOR TO FILLING THE MAT WITH SOIL.

INSTALLING AND ANCHORING BLANKETS:

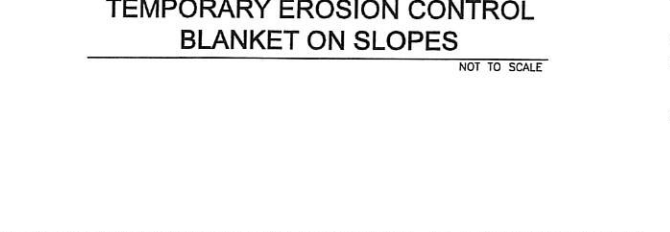
12. BLANKETS SHALL BE INSTALLED AND ANCHORED PER THE MANUFACTURER'S SPECIFICATIONS.
13. ENSURE COMPLETE CONTACT OF THE PROTECTION MATTING WITH THE SOIL.

INSTALLATION ON SLOPES:

14. BLANKETS SHALL BE INSTALLED ON SLOPES PER THE MANUFACTURER'S SPECIFICATIONS. IF THE MANUFACTURER'S INSTRUCTIONS DIFFER FROM THOSE LISTED BELOW, THE MANUFACTURER'S INSTRUCTIONS SHOULD BE FOLLOWED.
15. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN 6" DEEP X 6" WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
16. ROLL THE BLANKETS (A.) DOWN OR (B.) HORIZONTALLY ACROSS THE SLOPE.
17. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 6" OVERLAP.
18. WHEN BLANKETS MUST BE SPLICED DOWN THE SLOPE, PLACE BLANKETS END OVER END (SHINGLE STYLE) WITH APPROXIMATELY 6" OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART.

TEMPORARY EROSION CONTROL BLANKET ON SLOPES

NOT TO SCALE

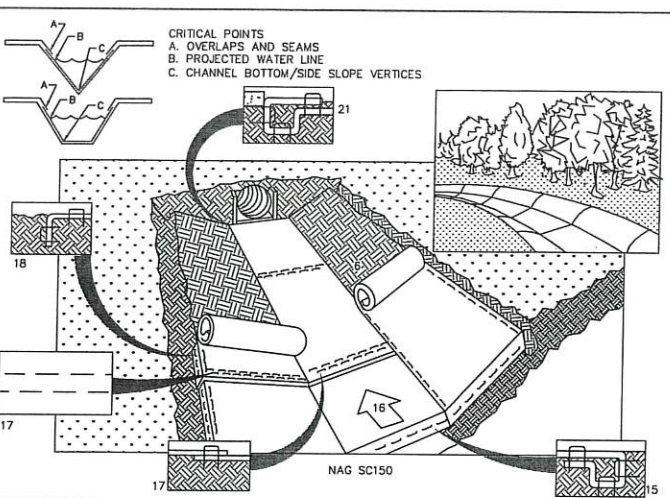


TEMPORARY EROSION CONTROL BLANKETS NHFG WILDLIFE FRIENDLY REQUIREMENTS

NOT TO SCALE

CONSIDERATIONS

1. THE ELIMINATION OF PLASTIC OR "BIODEGRADABLE PLASTIC" EROSION CONTROL NETTING IS REQUIRED AS THESE ARE KNOWN SOURCE OF ENTRAPMENT AND MORTALITY TO PROTECTED SNAKES AND TURTLES.
2. SEVERAL "WILDLIFE FRIENDLY" OPTIONS SUCH AS WOVEN ORGANIC MATERIAL (E.G., COCO MATTING) OR THE USE OF EROSION CONTROL BERM OKAY.
3. ACCEPTABLE MATERIALS INCLUDE NORTH AMERICAN GREEN C125BN OR EAST COAST EROSION CONTROL BLANKET ECC-2B BOTH ARE BIODEGRADABLE WITH A COCONUT FIBER MATRIX AND JUTE NETTING.



CONSIDERATIONS

1. DURING THE GROWING SEASON (APRIL 15 - SEPTEMBER 15) USE MATS OR MULCH AND NETTING ON THE BASE OF GRASSED WATERWAYS.
2. DURING THE LATE FALL AND WINTER (SEPTEMBER 15 - APRIL 15) USE HEAVY GRADE MATS ON SIDE SLOPES OF GRASSED WATERWAYS.
3. INSTALL MATS AND STAPLE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

MAINTENANCE REQUIREMENTS

4. ALL BLANKET AND MATS SHOULD BE INSPECTED WEEKLY DURING THE CONSTRUCTION PERIOD, AND AFTER ANY RAINFALL EVENT EXCEEDING 1/2 INCH IN A 24-HOUR PERIOD.
5. ANY FAILURE SHOULD BE REPAIRED IMMEDIATELY. IF WASHOUT OF THE SLOPE, DISPLACEMENT OF THE MAT, OR DAMAGE TO THE MAT OCCURS, THE AFFECTED SLOPE SHALL BE REPAIRED AND RESEEDED, AND THE AFFECTED AREA OF MAT SHALL BE RE-INSTALLED OR REPLACED.

SPECIFICATIONS

SITE PREPARATION:

6. GRADE AND SHAPE AREA OF INSTALLATION.
7. REMOVE ALL ROCKS, CLODS, TRASH, VEGETATIVE OR OTHER OBSTRUCTIONS SO THAT THE INSTALLED BLANKETS WILL HAVE DIRECT CONTACT WITH THE SOIL.
8. PREPARE SEEDBED BY LOOSENING 2-3 INCHES OF TOPSOIL ABOVE FINAL GRADE.
9. INCORPORATE AMENDMENTS, SUCH AS LIME AND FERTILIZER, INTO SOIL ACCORDING TO SOIL TEST AND THE SEEDING PLAN.

SEEDING:

10. SEED AREA BEFORE BLANKET INSTALLATION FOR EROSION CONTROL AND RE-VEGETATION. SEEDING AFTER MAT INSTALLATION IS OFTEN SPECIFIED FOR TURF REINFORCEMENT APPLICATION. WHEN SEEDING PRIOR TO BLANKET INSTALLATION, ALL CHECK SLOTS AND OTHER AREAS DISTURBED DURING INSTALLATION MUST BE RESEEDED.
11. WHERE SOIL FILLING IS SPECIFIED, SEED THE MATTING AND THE ENTIRE DISTURBED AREA AFTER INSTALLATION AND PRIOR TO FILLING THE MAT WITH SOIL.

INSTALLING AND ANCHORING BLANKETS:

12. BLANKETS SHALL BE INSTALLED AND ANCHORED PER THE MANUFACTURER'S SPECIFICATIONS.
13. ENSURE COMPLETE CONTACT OF THE PROTECTION MATTING WITH THE SOIL.

INSTALLATION IN CHANNELS:

14. BLANKETS SHALL BE INSTALLED IN CHANNELS PER THE MANUFACTURER'S SPECIFICATIONS. IF THE MANUFACTURER'S INSTRUCTIONS DIFFER FROM THOSE LISTED BELOW, THE MANUFACTURER'S INSTRUCTIONS SHOULD BE FOLLOWED.
15. BEGIN AT THE OUTLET OF THE CHANNEL BY ANCHORING THE BLANKET IN A 6" DEEP X 6" WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
16. ROLL CENTER BLANKET IN DIRECTION OF THE INLET END OF THE CHANNEL.
17. PLACE BLANKETS END OVER END (SHINGLE STYLE) WITH A 6" OVERLAP. USE A DOUBLE ROW OF STAGGERED STAPLES 4" APART TO SECURE BLANKETS.
18. FULL LENGTH EDGE OF BLANKETS AT TOP OF SIDE SLOPES MUST BE ANCHORED IN 6" DEEP X 6" WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
19. BLANKETS ON SIDE SLOPES MUST BE OVERLAPPED 4" OVER THE CENTER BLANKET AND STAPLED.
20. IN HIGH FLOW CHANNEL APPLICATIONS, A STAPLE CHECK SLOT IS RECOMMENDED AT 30 TO 40 FOOT INTERVALS. USE A ROW OF STAPLES 4" APART OVER ENTIRE WIDTH OF THE CHANNEL. PLACE A SECOND ROW 4" BELOW THE FIRST ROW IN A STAGGERED PATTERN.
21. THE TERMINAL END OF THE BLANKETS MUST BE ANCHORED IN A 6" DEEP X 6" WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.

TEMPORARY EROSION CONTROL BLANKET FOR CHANNELS

NOT TO SCALE

TEMPORARY EROSION CONTROL BLANKET FOR CHANNELS

NOT TO SCALE

WINTER CONSTRUCTION NOTES

NOT TO SCALE

1. ALL PROPOSED VEGETATED AREAS WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY OCT. 15TH, OR WHICH ARE DISTURBED AFTER OCT. 15TH, SHALL BE STABILIZED BY SEEDING AND INSTALLING EROSION CONTROL BLANKETS ON SLOPES GREATER THAN 3:1, AND SEEDING 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.
2. ALL DITCHES OR SWALES WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY OCT. 15TH, OR WHICH ARE DISTURBED AFTER OCT. 15TH, SHALL BE STABILIZED TEMPORARILY WITH STONE OR EROSION CONTROL BLANKETS APPROPRIATE FOR THE DESIGN FLOW CONDITIONS.
3. AFTER OCTOBER 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.

TEMPORARY & PERMANENT MULCHING

CONSIDERATIONS

1. WITHIN 100 FEET OF STREAMS, WETLANDS AND IN LAKE WATERSHEDS, TEMPORARY MULCH SHOULD BE APPLIED WITHIN 7 DAYS OF EXPOSING SOIL OR PRIOR TO ANY STORM EVENT.
2. AREAS THAT HAVE BEEN TEMPORARILY OR PERMANENTLY SEEDED SHOULD BE MULCHED IMMEDIATELY FOLLOWING SEEDING.
3. AREAS THAT CANNOT BE SEEDED WITHIN THE GROWING SEASON SHOULD BE MULCHED FOR OVER-WINTER PROTECTION. THE AREA SHOULD BE SEEDED AT THE BEGINNING OF THE NEXT GROWING SEASON.
4. MULCH ANCHORING SHOULD BE USED ON SLOPES WITH GRADIENTS GREATER THAN 5% IN LATE FALL (PAST SEPTEMBER 15), AND OVER-WINTER (SEPTEMBER 15 - MAY 15).
5. PERMANENT MULCH CAN BE USED IN CONJUNCTION WITH TREE, SHRUB, VINE, AND GROUND COVER PLANTINGS.

MAINTENANCE REQUIREMENTS

6. ALL TEMPORARY MULCHES MUST BE INSPECTED PERIODICALLY AND IN PARTICULAR AFTER RAINSTORMS, TO CHECK FOR RILL EROSION OR DISPLACEMENT OF THE MULCH. IF LESS THAN 90% OF THE SOIL SURFACE IS COVERED BY MULCH, ADDITIONAL MULCH SHOULD BE IMMEDIATELY APPLIED. NETS MUST BE INSPECTED AFTER RAIN EVENTS FOR DISLOCATION OR FAILURE. IF WASHOUTS OR BREAKAGES OCCUR, REPAIR ANY DAMAGE TO THE SLOPE AND RE-INSTALL OR REPLACE NETTING AS NECESSARY. INSPECTIONS SHOULD TAKE PLACE UNTIL GRASSES ARE FIRMLY ESTABLISHED (85% SOIL SURFACE UNIFORMLY COVERED WITH HEALTHY STAND OF GRASS).
7. EROSION CONTROL MIX MULCH USED FOR TEMPORARY STABILIZATION SHOULD BE LEFT IN PLACE. VEGETATION ADDS STABILITY AND SHOULD BE PROMOTED.
8. WHERE PERMANENT MULCH IS USED IN CONJUNCTION WITH ORNAMENTAL PLANTINGS, INSPECT PERIODICALLY THROUGHOUT THE YEAR TO DETERMINE IF MULCH IS MAINTAINING COVERAGE OF THE SOIL SURFACE. REPAIR AS NEEDED.
9. PERMANENT MULCHED AREAS SHOULD BE INSPECTED AT LEAST ANNUALLY, AND AFTER EACH LARGE RAINFALL (2.5 INCHES OR MORE IN A 24-HOUR PERIOD). ANY REQUIRED REPAIRS SHOULD BE MADE IMMEDIATELY. WHERE EROSION CONTROL MIX HAS BEEN USED, PLACE ADDITIONAL MIX ON TOP OF THE MULCH TO MAINTAIN THE RECOMMENDED THICKNESS. WHEN THE MULCH IS DECOMPOSED, CLOGGED WITH SEDIMENT, ERODED OR INEFFECTIVE, IT MUST BE REPLACED OR REPAIRED.
10. IF THE MULCH NEEDS TO BE REMOVED, SPREAD IT OUT INTO THE LANDSCAPE.

SPECIFICATIONS

GENERAL:

11. APPLY MULCH PRIOR TO A STORM EVENT. THIS IS APPLICABLE IN EXTREMELY SENSITIVE AREAS SUCH AS WITHIN 100 FEET OF LAKES, PONDS, RIVERS, STREAMS, AND WETLANDS. IT WILL BE NECESSARY TO CLOSELY MONITOR WEATHER PREDICTIONS TO HAVE ADEQUATE WARNING OF SIGNIFICANT STORMS.
12. MULCHING SHOULD BE COMPLETED WITHIN THE FOLLOWING SPECIFIED TIME PERIODS FROM ORIGINAL SOIL EXPOSURE:
 - WITHIN 100 FEET OF RIVERS AND STREAMS, WETLANDS, AND IN LAKE AND POND WATERSHEDS, THE TIME PERIOD SHOULD BE NO GREATER THAN 7 DAYS. THIS 7-DAY LIMIT SHOULD BE REDUCED FURTHER DURING WET WEATHER PERIODS.
 - IN OTHER AREAS, THE TIME PERIOD CAN RANGE FROM 14 TO 30 DAYS, THE LENGTH OF TIME VARYING WITH SITE CONDITIONS (SOIL FERTILITY, SEASON OF YEAR, EXTENT OF DISTURBANCE, PROXIMITY TO SENSITIVE RESOURCES) AND THE POTENTIAL IMPACT OF EROSION ON ADJACENT AREAS. OTHER STATE OR LOCAL RESTRICTIONS MAY ALSO APPLY.
13. THE CHOICE OF MATERIALS FOR MULCHING SHOULD BE BASED ON SITE CONDITIONS, SOILS, SLOPE, FLOW CONDITIONS, AND TIME OF YEAR.

HAY OR STRAW MULCHES:

14. ORGANIC MULCHES INCLUDING HAY AND STRAW SHOULD BE AIR-DRIED, FREE OF UNDESIRABLE SEEDS AND COARSE MATERIALS.
15. APPLICATION RATE SHOULD BE 2 BALES (70-90 POUNDS) PER 1000 SQUARE FEET OR 1.5 TO 2 TONS (90-100 BALES) PER ACRE TO COVER 75 TO 90% OF THE GROUND SURFACE.
16. HAY OR STRAW MULCH SHOULD BE ANCHORED TO PREVENT DISPLACEMENT BY WIND OR FLOWING WATER, USING ONE OF THE FOLLOWING METHODS:
 - NETTING: INSTALL JUTE, WOOD FIBER, OR BIODEGRADABLE PLASTIC NETTING OVER HAY OR STRAW TO ANCHOR IT TO THE SOIL SURFACE. INSTALL NETTING MATERIAL ACCORDING TO MANUFACTURER'S RECOMMENDATION. NETTING SHOULD BE USED JUDICIOUSLY, AS WILDLIFE CAN BECOME ENTANGLED IN THE MATERIALS.
 - TACKIFIER: APPLY POLYMER OR ORGANIC TACKIFIER TO ANCHOR HAY OR STRAW MULCH. APPLICATION RATES VARY BY MANUFACTURER; TYPICALLY 40-60 LBS/ACRE FOR POLYMER MATERIAL, AND 80-120 LBS/ACRE FOR ORGANIC MATERIAL. LIQUID MULCH BINDERS ARE ALSO TYPICALLY APPLIED HEAVIER AT EDGES, IN VALLEYS, AND AT CRESTS THAN OTHER AREAS.
17. WHEN MULCH IS APPLIED TO PROVIDE PROTECTION OVER WINTER (PAST THE GROWING SEASON), IT SHOULD BE APPLIED TO A DEPTH OF FOUR INCHES (150-200 POUNDS OF HAY OR STRAW PER 1000 SQUARE FEET, OR DOUBLE STANDARD APPLICATION RATE). SEEDING CANNOT GENERALLY BE EXPECTED TO GROW UP THROUGH THIS DEPTH OF MULCH AND WILL BE SMOTHERED. IF VEGETATION IS DESIRED, THE MULCH WILL NEED TO BE REMOVED IN THE SPRINGTIME AND THE AREA SEEDED AND MULCHED.

WOOD CHIPS OR BARK:

18. WOOD CHIPS OR GROUND BARK SHOULD BE APPLIED TO A THICKNESS OF 2 TO 6 INCHES.
19. WOOD CHIPS OR GROUND BARK SHOULD BE APPLIED AT A RATE OF 10 TO 20 TONS PER ACRE OR 460 TO 920 POUNDS PER 1,000 SQUARE FEET.

EROSION CONTROL MIX:

20. EROSION CONTROL MIX CAN BE MANUFACTURED ON OR OFF THE PROJECT SITE. IT MUST CONSIST PRIMARILY OF ORGANIC MATERIAL, SEPARATED AT THE POINT OF GENERATION, AND MAY INCLUDE SHREDDED BARK, STUMP GRINDINGS, COMPOSTED BARK, OR ACCEPTABLE MANUFACTURED PRODUCTS. WOOD AND BARK CHIPS, GROUND CONSTRUCTION DEBRIS OR REPROCESSED WOOD PRODUCTS WILL NOT BE ACCEPTABLE AS THE ORGANIC COMPONENT OF THE MIX.
21. COMPOSITION OF THE EROSION CONTROL MIX SHOULD BE AS FOLLOWS:
 - EROSION CONTROL MIX SHOULD CONTAIN A WELL-GRADED MIXTURE OF PARTICLE SIZES AND MAY CONTAIN ROCKS LESS THAN 4" IN DIAMETER. EROSION CONTROL MIX MUST BE FREE OF REFUSE, PHYSICAL CONTAMINANTS, AND MATERIAL TOXIC TO PLANT GROWTH. THE MIX COMPOSITION SHOULD MEET THE FOLLOWING STANDARDS:
 - THE ORGANIC MATTER CONTENT SHOULD BE BETWEEN 25 AND 65% DRY WEIGHT BASIS.
 - PARTICLE SIZE BY WEIGHT SHOULD BE 100% PASSING A 3" SCREEN, 90% TO 100% PASSING A 1-INCH SCREEN, 70% TO 100% PASSING A 0.75-INCH SCREEN, AND A MAXIMUM OF 30% TO 75% PASSING A 0.25-INCH SCREEN.
 - THE ORGANIC PORTION NEEDS TO BE FIBROUS AND ELONGATED.
 - THE MIX SHOULD NOT CONTAIN SILTS, CLAYS OR FINE SANDS.
 - SOLUBLE SALTS CONTENT SHOULD BE < 4.0 MMHOS/CM.
 - THE PH SHOULD BE BETWEEN 5.0 AND 8.0.
22. THE BARRIER MUST BE PLACED ALONG A RELATIVELY LEVEL CONTOUR. IT MAY BE NECESSARY TO CUT TALL GRASSES OR WOODY VEGETATION TO AVOID CREATING VOIDS AND BRIDGES THAT WOULD ENABLE FINES TO WASH UNDER THE BARRIER THROUGH THE GRASS BLADES OR PLANT STEMS.
23. THE BARRIER MUST BE A MINIMUM OF 12" HIGH, AS MEASURED ON THE UPHILL SIDE OF THE BARRIER, AND A MINIMUM OF TWO FEET WIDE.

GN-4: VEGETATION STABILIZATION NOTES

ALL VEGETATION STABILIZATION SHALL BE IN ACCORDANCE WITH USDA NRCS "VEGETATING NEW HAMPSHIRE SAND AND GRAVEL PITS", IN ADDITION TOO "BEST MANAGEMENT PRACTICES FOR ROUTINE ROADWAY MAINTENANCE ACTIVITIES IN NEW HAMPSHIRE", LATEST EDITIONS.

PARK SEED TYPE 15 SHALL NORMALLY BE USED ON LOAM AREAS. THIS SEED MIXTURE SHALL CONFORM TO TABLE 1 UNLESS AMENDED BY THE PROJECT ENGINEER TO SUIT ACTUAL FIELD CONDITIONS.

KIND OF SEED	MINIMUM		POUNDS/ACRE
	PURITY (%)	GERMINATION (%)	
CREeping FESCUE	98	85	40
PERENNIAL RYEGRASS	98	90	50
KENTUCKY BLUEGRASS	97	85	25
REDTOP	95	80	5
TOTAL			120

SLOPE SEED TYPE 44 SHALL NORMALLY BE USED FOR ALL SLOPE WORK, and SHALL CONFORM TO TABLE 2 UNLESS AMENDED BY THE DESIGN ENGINEER TO SUIT ACTUAL FIELD CONDITIONS.

KIND OF SEED	MINIMUM		POUNDS/ACRE
	PURITY (%)	GERMINATION (%)	
CREeping RED FESCUE	96	85	35
PERENNIAL RYEGRASS	98	90	30
REDTOP	95	80	5
ALSIKE CLOVER	97	90	5
BIRD'SFOOT TREFOL	98	80	5
TOTAL			80

SEEDING SEASON:

1. SEEDBED PREPARATION

- A. ALL AREAS TO BE SEEDED SHALL BE A REASONABLY FIRM, BUT FRIABLE.
- B. SURFACE and SEEPAGE WATER SHOULD BE DRAINED OR DIVERTED FROM THE SITE TO PREVENT DROWNING OR WINTER KILLING.
- C. THE SEEDED SHOULD BE LEFT IN A REASONABLY FIRM and SMOOTH CONDITION, FOLLOWING SEEDING OPERATIONS.
- D. ALL AREAS TO BE SEEDED SHALL MEET THE SPECIFIED GRADES, AS SPECIFIED ON THE APPROVED PLAN.
- E. ALL VEGETATION SHALL BE INSPECTED ANNUALLY FOR UNHEALTHY or DEAD AREAS. ANY AND ALL SUCH AREAS ARE TO BE REPAIRED or REPLACED IN KIND.

2. ESTABLISHING A STAND

- A. LIME AND FERTILIZER SHOULD BE APPLIED PRIOR TO OR AT THE TIME OF SEEDING AND INCORPORATED INTO THE SOIL. KINDS AND AMOUNTS OF LIME AND FERTILIZER SHOULD BE BASED ON EVALUATION OF SOIL TESTS. WHEN A SOIL TEST IS NOT AVAILABLE, THE FOLLOWING MINIMUM AMOUNTS SHOULD BE APPLIED:
 - AGRICULTURAL LIMESTONE: 2 TONS PER ACRE OR 0.09 LBS. PER SQ. FT.
 - NITROGEN (N): 50 LBS. PER ACRE OR 1.1 LBS. PER 1000 SQ. FT.
 - PHOSPHATE (P₂O₅): 100 LBS. PER ACRE OR 2.2 LBS. PER 1000 SQ. FT.
 - POTASH (K₂O): 100 LBS. PER ACRE OR 2.2 LBS. PER 1000 SQ. FT.
 (NOTE: THIS IS THE EQUIVALENT OF 500 LBS. PER ACRE OF 10-20-20 FERTILIZER OR 1,000 LBS. PER ACRE OF 5-10-10)
- B. SEED SHOULD BE SPREAD UNIFORMLY BY THE METHOD MOST APPROPRIATE FOR THE SITE. METHODS INCLUDE BROADCASTING, DRILLING, AND HYDROSEEDING. WHERE BROADCASTING IS USED, COVER SEED WITH 0.25 INCH OF SOIL OR LESS, BY CULTIPACKING OR RAKING.

3. MULCH

- A. HAY, STRAW, OR OTHER MULCH, WHEN NEEDED, SHOULD BE APPLIED IMMEDIATELY AFTER SEEDING.
- B. MULCH WILL BE HELD IN PLACE USING TECHNIQUES FROM THE "BEST MANAGEMENT PRACTICE FOR MULCHING", AS SHOWN IN, "STORMWATER MANAGEMENT AND SEDIMENTATION CONTROL HANDBOOK FOR URBAN AND DEVELOPING AREAS IN NEW HAMPSHIRE".

4. MAINTENANCE TO ESTABLISH A STAND

- A. PLANTED AREAS SHOULD BE PROTECTED FROM DAMAGE BY FIRE, GRAZING, TRAFFIC, AND DENSE WEED GROWTH.
- B. FERTILIZATION WILL BE PERFORMED ANNUALLY IN ACCORDANCE WITH NOTE 2A..
- C. IN WATERWAYS, CHANNELS, OR SWALES WHERE UNIFORM FLOW CONDITIONS ARE ANTICIPATED, OCCASIONAL MOWING or TRIMMING WILL BE PERFORMED ANNUALLY TO CONTROL GROWTH.
- D. ALL VEGETATION SHOULD BE INSPECTED REGULARLY and AFTER EVERY MAJOR RAIN EVENT (≥ 2"/24 hr). DAMAGED AREAS SHOULD BE REPAIRED AND RE-VEGETATED IMMEDIATELY.

NO.	DATE	DESCRIPTION	BY
1	8/17/2021	REVISED PER TOWN DESIGN REVIEW	TDB
2	9/14/2021	SITE PLAN SUBMITTAL	TDB
3	12/15/2021	REVISIONS OF SITE & BUNFORD ROAD	TDB

SCALE AS SHOWN

N.H. LAND Consultants
 SURVEYING-LAND PLANNING-REAL ESTATE
 A Veteran Owned Company

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EROSION CONTROL NOTES & DETAILS - 2
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 304 YOUNG ROAD, BARRINGTON, NH 03825
 BOOK 4502 PAGE 1100

STRAFFORD CO.
 JOB NO: 400.00
 DATE: JULY 13, 2021

DET-7
 SHT. 18 of 18

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