CHRISTMAS LANE RECONSTRUCTION
FOR
1962 REAL ESTATE, LLC
JOHN & LINDA SVENSON
FRANKLIN PIERCE HIGHWAY
BARRINGTON, N.H.
TAX MAP 239, LOT 2
TAX MAP 235, LOT 1

TABLE OF CONTENTS:

NOTE:

BERRY SURVEYING & ENGINEERING HAS PREPARED AN INSPECTION & MAINTENANCE MANUAL AS PART OF THIS PROJECTS DOCUMENTATION. ALL USERS ARE BOUND TO THIS DOCUMENT AS PART OF THE APPROVAL OF THE PLANNING BOARD. COPIES OF THE YEARLY INSPECTIONS ARE TO BE DELIVERED TO THE TOWN OF BARRINGTON COMMUNITY SERVICES DEPARTMENT.

OWNER: 1962 REAL ESTATE LLC
40 WAKEFIELD STREET
ROCHESTER, NH 03866

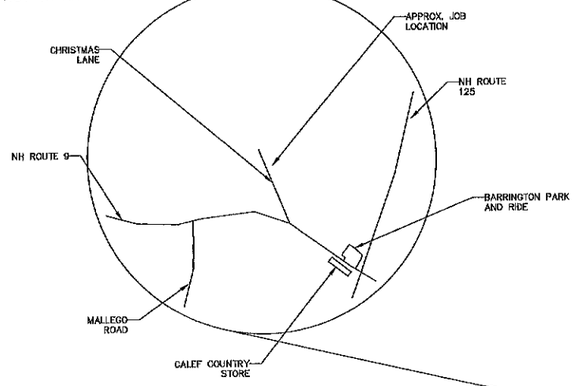
JOHN & LINDA SVENSON
P.O. BOX 10
BARRINGTON, NH 03825

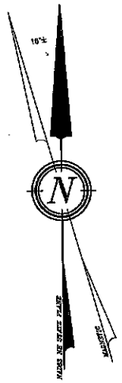
SURVEYOR OF RECORD: KENNETH A. BERRY, PE, LLS
CPESC, CESSWI, CPSWQ
BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825
(603) 332-2863

ENGINEER OF RECORD: KENNETH A. BERRY, PE, LLS
CPESC, CESSWI, CPSWQ
BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825
(603) 332-2863

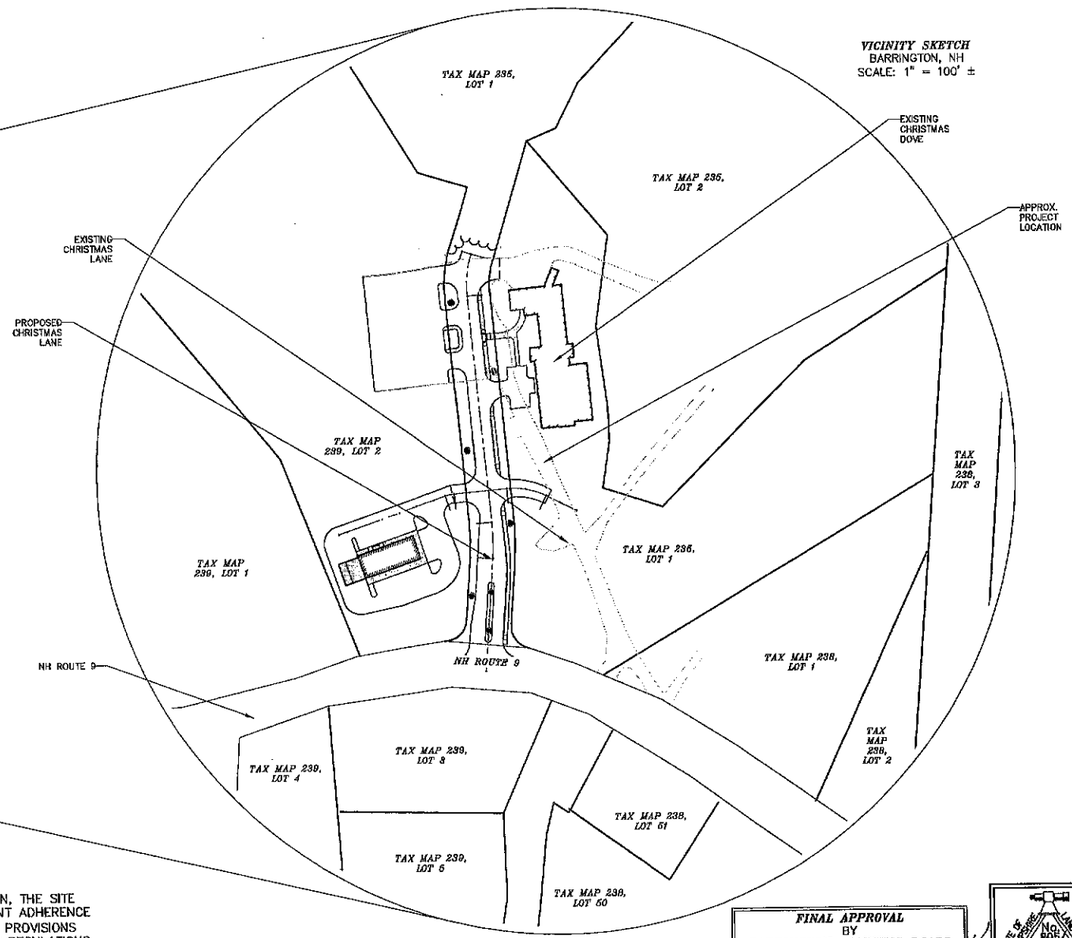
WETLAND SCIENTIST: STONEY RIDGE ENVIRONMENTAL
CYNTHIA M. BALCIUS, CSS, CWS, CPESC
229 PROSPECT MOUNTAIN ROAD
ALTON, NH 03809
603-776-5825

LOCATION PLAN
BARRINGTON, NH
NOT TO SCALE





VICINITY SKETCH
BARRINGTON, NH
SCALE: 1" = 100' ±



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AUG 14 2018
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REQUIRED PERMITS:

1.) EPA NOTICE OF INTENT: PENDING

2.) NHDOT DRIVEWAY PERMIT: PENDING

GENERAL PLAN SET NOTES:

1.) 11x17" PLANS ARE HALF THE PUBLISHED SCALE.

2.) ALL PLANS ARE CONSIDERED TO BE NOT FOR CONSTRUCTION UNLESS THEY CONTAIN THE APPROVAL STAMP OF THE TOWN OF BARRINGTON.

WHETHER OR NOT OTHERWISE EXPRESSLY RECITED ON THIS SITE PLAN, THE SITE PLAN APPROVAL GRANTED IS CONDITIONED ON FAITHFUL AND DILIGENT ADHERENCE BY THE OWNER/SUBDIVIDER/DEVELOPER OF ALL TERMS, CONDITIONS, PROVISIONS AND SPECIFICATIONS OF THE TOWN OF BARRINGTON LAND SITE PLAN REGULATIONS AS AMENDED OR AS MAY LATER BE AMENDED, IN EFFECT ON THE DATE OF APPROVAL, UNLESS OR EXCEPT INSOFAR AS EXPRESSLY WAIVED, IN ANY PARTICULAR, BELOW. NON -- ADHERENCE MAY RESULT IN A REVOCATION OF APPROVAL. ANY VARIATION FROM THE APPROVED PLAN WILL REQUIRE A RESUBMISSION FOR SITE PLAN APPROVAL.

FINAL APPROVAL
BY
BARRINGTON PLANNING BOARD
CERTIFIED BY : _____
DATE : _____

STATE OF NEW HAMPSHIRE — LAND SURVEYOR — No. 805 — KENNETH A. BERRY — SIGNATURE

REVISION	DATE	DESCRIPTION

COVER SHEET
LAND OF
1962 REAL ESTATE, LLC &
JOHN & LINDA SVENSON
FRANKLIN PIERCE HIGHWAY
BARRINGTON, NH 03825
TAX MAP 239 LOT 2 & MAP 235 LOT 1

BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (603)332-2863

SCALE : AS SHOWN
DATE : AUGUST 13, 2018
FILE NO. : DB 2018 - 005

STATE OF NEW HAMPSHIRE — KENNETH A. BERRY No. 7424 LICENSED PROFESSIONAL ENGINEER

ABBREVIATION LEGEND:

S.G.C.	SLOPED GRANITE CURB
V.G.C.	VERTICAL GRANITE CURB
E.O.P.	EDGE OF PAVEMENT
B.C.C.	BITUMINOUS CONCRETE CURB
BITUM.	BITUMINOUS
E.O.P.	EDGE OF PAVEMENT
E.S.H.W.T	ESTIMATE SEASONAL HIGH WATER TABLE
TYP.	TYPICAL
T. BLOCK	THRUST BLOCK
CONC.	CONCRETE
U.G.E.	UNDER GROUND ELECTRIC / UTILITY
U.D.	UNDER DRAIN
F.E.S.	FLARED END SECTION
HDPE	HIGH DENSITY POLYETHYLENE
RCP	REINFORCED CONCRETE PIPE
F.G.	FINISHED GRADE
E.G.	EXISTING GRADE
T.W.	TRAVELED WAY
T.B.R.	TO BE REMOVED
'/.	FEET / FEET

SSL { } ~ {SIZE} SINGLE SOLID LINE (COLOR W=WHITE, Y=YELLOW)
DSL { } ~ {SIZE} DOUBLE SOLID LINE (COLOR W=WHITE, Y=YELLOW)
SSB { } ~ {SIZE} SINGLE SOLID W/ BROKEN LINE (COLOR W=WHITE, Y=YELLOW)
SBL { } ~ {SIZE} SINGLE BROKEN LINE (COLOR W=WHITE, Y=YELLOW)
DBL { } ~ {SIZE} DOUBLE BROKEN LINE (COLOR W=WHITE, Y=YELLOW)

PROPOSED LEGEND:

- UTILITY POLE
- UTILITY PADS
- SEWER MANHOLE
- WATER SHUT OFF / VALVE
- HYDRANT
- THRUST BLOCK
- LIGHTING
- CATCH BASIN / DRAIN MANHOLE
- SIGNAGE
- LAMP
- CHECK DAM–MATERIAL AS SPECIFIED
- CONTOUR MINOR
- CONTOUR MAJOR
- SPOT GRADE
- CULVERT W/ FLARED END SECTION (F.E.S.)
- DETAIL SHEET / DETAIL
- TREE LINE
- CENTER LINE
- UNDERGROUND UTILITY TRANSFORMER / J.BOX
- UNDER DRAIN
- WATER LINE
- SEWER LINE
- GAS LINE
- SILT FENCE / EROSION MIX BERM
- FILTREXX 8" – 12" SILT SOXX AS SPECIFIED
- ORANGE CONSTRUCTION PERIMETER FENCE
- PROJECT LIMITS

SIGN ID NUMBER	SIGN SIZE (WIDTH x HEIGHT)	SIGN	TEXT DIMENSIONS	NO. OF SIGNS	BACKGROUND	LEGEND	BORDER	POST SIZE & QUANTITY
R1–1	30"x30"	STOP	SEE STANDARD HIGHWAY SIGNS 2004 EDITION PUBLISHED BY USDOT – FHWA	5	RED	WHITE	WHITE	SQUARE (5)
R2–1	12"x18"	SPEED LIMIT 25	SEE STANDARD HIGHWAY SIGNS 2004 EDITION PUBLISHED BY USDOT – FHWA	1	WHITE	GREEN	GREEN	SQUARE (1)
R4–7	24"x30"		SEE STANDARD HIGHWAY SIGNS 2004 EDITION PUBLISHED BY USDOT – FHWA	1	WHITE W/ BLACK ARROW	BLACK	BLACK	SQUARE (1)
R7–8	12"x18"	RESERVED PARKING	SEE STANDARD HIGHWAY SIGNS 2004 EDITION PUBLISHED BY USDOT – FHWA	6	WHITE	GREEN W/ WHITE SYMBOL ON BLUE	RED	SQUARE (6)
R7–8a	12"x6"	VAN ACCESSIBLE	SEE STANDARD HIGHWAY SIGNS 2004 EDITION PUBLISHED BY USDOT – FHWA	4	WHITE	GREEN	GREEN	SQUARE (0)
R8–31	12"x18"	NO PARKING FIRE LANE	SEE STANDARD HIGHWAY SIGNS 2004 EDITION PUBLISHED BY USDOT – FHWA	3	WHITE	RED	RED	SQUARE (2)
W3–1	30"x30"		SEE STANDARD HIGHWAY SIGNS 2004 EDITION PUBLISHED BY USDOT – FHWA	1	YELLOW W/ RED SYMBOL BLACK ARROW	WHITE	BLACK	SQUARE (1)
W14–2	30"x30"	NO OUTLET	SEE STANDARD HIGHWAY SIGNS 2004 EDITION PUBLISHED BY USDOT – FHWA	1	YELLOW	BLACK	BLACK	SQUARE (1)
W11–2	30"x30"		SEE STANDARD HIGHWAY SIGNS 2004 EDITION PUBLISHED BY USDOT – FHWA	4	YELLOW	BLACK	BLACK	SQUARE (4)

VICINITY SKETCH
BARRINGTON, NH
SCALE: 1" = 100' ±

ABUTTERS WITHIN 200':

N/F 1962 REAL ESTATE LLC
153 BROCK STREET
ROCHESTER, NH 03867
TAX MAP 239, LOT 2
S.C.R.D. BOOK 4554, PAGE 813

N/F KAY, EDWARD
21 LITTLEWORTH
DOVER, NH 03820
TAX MAP 234, LOT 79

N/F SVENSON, GARTH & ELIZABETH
P.O. BOX 10
BARRINGTON, NH 03825
TAX MAP 235, LOT 2
S.C.R.D. BOOK 3366, PAGE 451

N/F SVENSON, JOHN & LINDA
P.O. BOX 10
BARRINGTON, NH 03825
TAX MAP 295, LOT 8

N/F BENNETT, BERNARD F. & SUSAN D.
811 FRANKLIN PIERCE HWY.
BARRINGTON, NH 03825
TAX MAP 239, LOT 1
S.C.R.D. BOOK 3954, PAGE 119

N/F SVENSON, LINDA LC
P.O. BOX 10
BARRINGTON, NH 03825
TAX MAP 235, LOT 3
S.C.R.D. BOOK 4022, PAGE 576

N/F 614 FPH REAL ESTATE LLC
P.O. BOX 57
BARRINGTON, NH 03825
TAX MAP 238, LOT 15
S.C.R.D. BOOK 4255, PAGE 398

N/F HEINDERSON, DAVID & GLENDA
UND. INT. LIV. REVOCABLE TRUST 1/2
1273 WINGED FOOT LANE
DENVER, CO 28037–0820
TAX MAP 235, LOT 1–1

N/F WARD, SARAH & PETER
643 FRANKLIN PIERCE HIGHWAY
BARRINGTON, NH 03825
TAX MAP 238, LOT 1

ABUTTERS WITHIN 200':

N/F ROWELL, MARK K & SHERRY B
74 BLACKWATER ROAD
ROCHESTER, NH 03867
TAX MAP 239, LOT 3
S.C.R.D. BOOK 4364, PAGE 895

N/F LEAVITT, NATHANIEL & VICTORIA J
30 RIVERSIDE FARM ROAD APARTMENT B
LEE, NH 03867
TAX MAP 239, LOT 4

N/F TOWN CENTER PROPERTIES LLC
270 GULF ROAD
DOVER, NH 03820
TAX MAP 239, LOT 7
S.C.R.D. BOOK 4347, PAGE 960

EXISTING LEGEND:

- IRON BOUND ~TBS~
- IRON BOUND ~FND~
- GRANITE BOUND ~FND~
- GRANITE BOUND ~TBS~
- STONE BOUND ~FND~
- UTILITY POLE
- GUY WIRE
- FIRE HYDRANT
- CATCH BASIN
- SEWER MANHOLE
- SINGLE POST SIGN
- TEST PIT
- TREE
- BUILDING SETBACK LINE
- EASEMENT LINE
- GAS LINE
- OVERHEAD UTILITIES
- HIGHWAY FENCE
- SOILS LINE
- EXISTING CONTOUR MINOR
- EXISTING CONTOUR MAJOR
- EXISTING CULVERT PIPE
- WETLAND LINE

LAND USE OFFICE
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REVISION	DATE	DESCRIPTION

NEIGHBORHOOD PLAN
LAND OF
1962 REAL ESTATE, LLC &
JOHN & LINDA SVENSON
FRANKLIN PIERCE HIGHWAY
BARRINGTON, NH 03825
TAX MAP 239 LOT 2 & MAP 235 LOT 1

BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (603)332–2863

SCALE : AS SHOWN
DATE : AUGUST 13, 2018
FILE NO. : DB 2018 – 005

STATE OF NEW HAMPSHIRE – KENNETH A. BERRY 10773 LICENSED PROFESSIONAL ENGINEER

JURISDICTIONAL WETLANDS WERE DELINEATED BY CYNTHIA BALCIUS OF STONEY RIDGE ENVIRONMENTAL LLC IN MAY OF 2017 UTILIZING THE FOLLOWING STANDARDS:

1) FIELD INDICATORS OF HYDRIC SOILS IN THE UNITED STATES, VERSION 7.0. 2010. L.M. VASILAS, G.W. HURT, AND C.V. NOBLE (EDS.). UNITED STATES DEPARTMENT OF AGRICULTURE, NATURAL RESOURCES CONSERVATION SERVICE, IN COOPERATION WITH THE NATIONAL TECHNICAL COMMITTEE FOR HYDRIC SOILS.
2) FIELD INDICATORS FOR IDENTIFYING HYDRIC SOILS IN NEW ENGLAND. VERSION 3. APRIL 2004. NEWPCC WETLANDS WORKGROUP. WILMINGTON, MA 01887.
3) NORTH AMERICAN DIGITAL FLORA: NATIONAL WETLAND PLANT LIST, VERSION 2.1.0 (HTTP://WETLAND_PLANTS.USACE.ARMY.MIL). U.S. ARMY CORPS OF ENGINEERS, ENGINEER RESEARCH AND DEVELOPMENT CENTER, COLD REGIONS RESEARCH AND ENGINEERING LABORATORY, HANOVER, NH, AND BONAP, CHAPEN HILL.
4) STATE OF NEW HAMPSHIRE 2014 WETLAND PLANT LIST. LICHVAR, R.W., M. BUTTERWICH, N.C. MELVIN, AND W.N. KIRCHNER. 2014. THE NATIONAL WETLAND PLANT LIST: 2014 UPDATE OF WETLAND RATINGS. PHYTONEURON 2014-41:1-42.
5) CORPS OF ENGINEERS WETLANDS DELINEATION MANUAL. JANUARY 1987. WETLANDS RESEARCH PROGRAM TECHNICAL REPORT Y-87-1.
6) REGIONAL SUPPLEMENT TO THE CORPS OF ENGINEERS WETLAND DELINEATION MANUAL: NORTHCENTRAL AND NORTHEAST REGION. JANUARY 2012. VERSION 2. U.S. ARMY CORPS OF ENGINEERS. ENVIRONMENTAL LABORATORY ERDC/EL TR-12-1.
7) CLASSIFICATION OF WETLANDS AND DEEPWATER HABITATS OF THE UNITED STATES. DECEMBER 1979. L. COWARDIN, V. CARTER, F. GOLET, AND E. LAROE. US DEPARTMENT OF THE INTERIOR. FISH AND WILDLIFE SERVICE. FWS/OBS-79/31.

STONEY RIDGE ENVIROMENTAL, LLC.
CYNTHIA BALCIUS, CWS #61

N/F JOHN & LINDA SVENSON
P.O. BOX 10
BARRINGTON, NH 03825
S.C.R.D. BOOK 1035, PAGE 514
TAX MAP 235, LOT 3
SEE PLAN REFERENCE #3

N/F JOHN & LINDA SVENSON
P.O. BOX 10
BARRINGTON, NH 03825
S.C.R.D. BOOK 993, PAGE 080
TAX MAP 235, LOT 1

N/F DAVID R. & GLENDA J. HERDERSON
UND INT LIV REV TRUST 1/2
1272 WINGED FOOT LANE
DENVER, NC 28037-6520
S.C.R.D. BOOK 897, PAGE 121
TAX MAP 235, LOT 1
SEE PLAN REFERENCE #5

N/F GARTH & ELIZABETH SVENSON
P.O. BOX 10
BARRINGTON, NH 03825
S.C.R.D. BOOK 3366, PAGE 451
TAX MAP 235, LOT 2
SEE PLAN REFERENCE #3

N/F LINDA SVENSON
P.O. BOX 10
BARRINGTON, NH 03825
S.C.R.D. BOOK 4022, PAGE 576
TAX MAP 235, LOT 1
FORMER RAIL ROAD R.O.W.
SEE PLAN REFERENCE #2

N/F 1962 REAL ESTATE LLC
40 WAKEFIELD STREET
ROCHESTER, NH 03866
S.C.R.D. BOOK 4256, PAGE 115
TAX MAP 239, LOT 2
SEE PLAN REFERENCE #11

N/F SARAH AND PETER WARD
643 FRANKLIN PIERCE HIGHWAY
BARRINGTON, NH 03825
S.C.R.D. BOOK 3521, PAGE 922
TAX MAP 239, LOT 1
SEE PLAN REFERENCE #5

N/F BERNARD F. & SUSAN D. BENNETT
611 FRANKLIN PIERCE HIGHWAY
BARRINGTON, NH 03825
S.C.R.D. BOOK 3954, PAGE 119
TAX MAP 239, LOT 1
SEE PLAN REFERENCE #3

NH ROUTE 9/FRANKLIN PIERCE HIGHWAY

SEE PLAN REF #4 FOR EFFLUENT DISPOSAL EASEMENT THAT BENEFITS TAX MAP 235, LOT 1

PLAN REFERENCES:

1. PAGE 859 OF THE MISCELLANEOUS PROVINCIAL PAPERS. ON RECORD AT NHDOT AND THIS OFFICE.
2. RIGHT OF WAY AND TRACK MAP, BOSTON & MAINE R.R. STATION 4609+80 TO STATION 4862+40 V6NH/89.
3. SUBDIVISION PLAN OF E.RICHARD ROWELL BARRINGTON, NH DATED: MARCH 1982 BY: FREDERICK E. DREW ASSOCIATES S.C.R.D. PLAN #24A-24
4. SEPTIC EASEMENT PLAN EASEMENT TO BE DEEDED TO JOHN P. & LINDA C. SVENSON OVER LAND OF JOHN P. & LINDA C. SVENSON, BARRINGTON, NH DATED: JUNE 1993 BY: FREDERICK E. DREW ASSOCIATES S.C.R.D BOOK 1679 PAGE 737
5. SUBDIVISION PLAN PREPARED FOR DAVID R. & GLENDA J. HENDERSON OF TAX MAP 239, LOT 1 LOCATED AT NH ROUTE 9, BARRINGTON, NH. DATED: SEPTEMBER 21, 2005 BY: LAND SURVEYING SERVICES S.C.R.D. PLAN #37-36
6. PLAN OF LAND OF PROPERTY IN THE NAME OF R.L.C. HOLDINGS INC. FORMERLY CALEF'S INC. SHOWN AS TAX MAP 239, LOT 7, LOCATED AT MALLEGO ROAD , CALEF HIGHWAY (ATA NH ROUTE 125) AND FRANKLIN PIERCE HIGHWAY (AKA NH ROUTE 9) BARRINGTON, NH DATED: SEPTEMBER 17, 2015 BY: LAND SURVEYING SERVICES S.C.R.D. PLAN #110-020
7. SUBDIVISION OF LAND OAK HILL ROAD (SOUTH) BARRINGTON, NH FOR EDWARD J-LEMOS 1995 TRUST. DATED: JANUARY 2005 BY: NORWAY PLAINS ASSOCIATES INC. S.C.R.D. PLAN #05-10
8. NHDOT PLAN OF NH ROUTE 125 RE-CONSTRUCTION, PROJECT F 019-1(7) SHEET 7 OF 9. ON FILE WITH NHDOT
9. NHDOT PLAN OF NH ROUTE 9 RE-CONSTRUCTION, PROJECT 210-E SHEET 2 OF 8 ON FILE WITH NHDOT
10. PROPERTY OF SUMNER HAYES, BARRINGTON NH. BY: TW CHISLEY ON FILE AT THIS OFFICE
11. LOCATION SKETCH DAVID HENDERSON BY: F.E. DREW ON FILE AT THIS OFFICE
12. LOT LINE ADJUSTMENT, SUBDIVISION PLAN CHRISTMAS DOVE, NH ROUTE 9, FRANKLIN PIERCE HIGHWAY, BARRINGTON, STRAFFORD COUNTY, PREPARED FOR JOHN & LINDA SVENSON & 1962 REAL ESTATE, LLC DATED: MARCH 2015 BY: NORWAY PLAINS ASSOCIATES, INC. ON FILE AT THIS OFFICE
13. LOT LINE ADJUSTMENT, SUBDIVISION PLAN CHRISTMAS DOVE, NH ROUTE 9, FRANKLIN PIERCE HIGHWAY, BARRINGTON, STRAFFORD COUNTY, PREPARED FOR JOHN & LINDA SVENSON & 1962 REAL ESTATE, LLC DATED: AUGUST 2017 BY: BERRY SURVEYING & ENGINEERING ON FILE AT THIS OFFICE

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TEST HOLE DATA: 5-19-17

TEST PIT #1
0-8" 10YR 3/3 FINE SANDY LOAM, GRANULAR, FRIABLE, TOPSOIL
8-40" 7.5YR 5/4 SAND AND GRAVEL, GRANULAR, FRIABLE
40-60" 10YR 5/4 SAND AND GRAVEL, GRANULAR, FIRM, COMMON AND DISTINCT MOTTLES
60-72" 10YR 7/2 FINES, GRANULAR, FRIABLE, MANY AND PROMINENT MOTTLES

E.S.H.W.T. @ 40"
GROUND WATER @ 40"
TERMINATED @ 72"
ROOTS @ NONE
REFUSAL @ NONE
PERC. = 2 MIN/IN

TEST PIT #2
0-9" 10YR 3/3 FINE SANDY LOAM, GRANULAR, FRIABLE
8-42" 7.5YR 5/4 SAND AND GRAVEL, GRANULAR, FRIABLE
42-72" 2.5Y 6/6 SAND AND GRAVEL, GRANULAR, FIRM, COMMON AND DISTINCT MOTTLES

E.S.H.W.T. @ NONE
NO GROUND WATER
TERMINATED @ 72"
ROOTS @ NONE
REFUSAL @ NONE
PERC. = 2 MIN/IN

TEST PIT #3
0-3" 10YR 3/3 FINE SANDY LOAM, GRANULAR, FRIABLE, TOPSOIL
3-28" 10YR 5/6 FINE SANDY LOAM, GRANULAR, FRIABLE
28-48" 10YR 7/4 FINE LOAMY SAND, GRANULAR, FIRM, COMMON AND DISTINCT MOTTLES

E.S.H.W.T. @ 20"
GROUND WATER @ 40"
TERMINATED @ 40"
ROOTS @ 24"
REFUSAL @ 48"
PERC. = 10 MIN/IN

TEST PIT #4
0-3" 10YR 3/3 FINE SANDY LOAM, GRANULAR, FRIABLE, TOPSOIL
3-28" 10YR 5/8 FINE SANDY LOAM, GRANULAR, FRIABLE
28-49" 10YR 7/4 FINE LOAMY SAND, GRANULAR, FIRM, COMMON AND DISTINCT MOTTLES

E.S.H.W.T. @ 28"
GROUND WATER @ 49"
TERMINATED @ 49"
ROOTS @ 24"
REFUSAL @ 49"
PERC. = 10 MIN/IN

TEST HOLE DATA: 5-19-17

TEST PIT #5
0-3" 10YR 3/3 FINE SANDY LOAM, GRANULAR, FRIABLE, TOPSOIL
3-30" 7.5YR 5/6 FINE SANDY LOAM, GRANULAR, FRIABLE
30-36" 10YR 5/4 FINE SANDY LOAM, GRANULAR, FIRM, COMMON AND DISTINCT MOTTLES

E.S.H.W.T. @ 30"
GROUND WATER @ NONE
TERMINATED @ 36"
ROOTS @ 24"
REFUSAL @ 39" (LEDGE)
PERC. = 10 MIN/IN

TEST PIT #6
0-3" 10YR 3/3 FINE SANDY LOAM, GRANULAR, FRIABLE, TOPSOIL
3-30" 7.5YR 5/6 FINE SANDY LOAM, GRANULAR, FRIABLE
30-38" 10YR 5/4 FINE SANDY LOAM, GRANULAR, FIRM, COMMON AND DISTINCT MOTTLES

E.S.H.W.T. @ 30"
GROUND WATER @ NONE
TERMINATED @ 38"
ROOTS @ 24"
REFUSAL @ 39" (LEDGE)
PERC. = 10 MIN/IN

TEST PIT #7
0-3" 10YR 3/3 FINE SANDY LOAM, GRANULAR, FRIABLE, TOPSOIL
3-30" 7.5YR 5/4 FINE SANDY LOAM, GRANULAR, FRIABLE
30-65" 10YR 5/6 FINE SANDY LOAM, GRANULAR, FIRM, COMMON AND DISTINCT MOTTLES

E.S.H.W.T. @ 30"
GROUND WATER @ NONE
TERMINATED @ 65"
ROOTS @ 24"
REFUSAL @ 65"
PERC. = 10 MIN/IN

TEST PIT #8
0-3" 10YR 3/3 FINE SANDY LOAM, GRANULAR, FRIABLE, TOPSOIL
3-28" 7.5YR 5/6 FINE SANDY LOAM, GRANULAR, FRIABLE
28-66" 10YR 6/5 FINE SANDY LOAM, GRANULAR, FIRM, COMMON AND DISTINCT MOTTLES

E.S.H.W.T. @ 28"
GROUND WATER @ NONE
TERMINATED @ 66"
ROOTS @ 24"
REFUSAL @ 68"
PERC. = 10 MIN/IN

TEST PIT #100
0-4" 10YR 3/2 FINE SANDY LOAM, GRANULAR, FRIABLE, TOPSOIL
4-28" 7.5YR 5/6 FINE SAND, GRANULAR, FRIABLE
28-48" 7.5YR 5/4 FINE SAND, SINGLE GRAIN, LOOSE IN HAND

E.S.H.W.T. @ 20"
GROUND WATER @ NONE
TERMINATED @ 40"
ROOTS @ 24"
REFUSAL @ NONE"
PERC. = 4 MIN/IN

TEST PIT #101A
0-4" 10YR 3/2 FINE SANDY LOAM, GRANULAR, FRIABLE, TOPSOIL
4-32" 7.5YR 5/6 FINE SAND, GRANULAR, FRIABLE
32-48" 7.5YR 5/4 FINE SAND, SINGLE GRAIN, LOOSE IN HAND

E.S.H.W.T. @ 32"
GROUND WATER @ NONE
TERMINATED @ 48"
ROOTS @ 24"
REFUSAL @ NONE"
PERC. = 4 MIN/IN

NOTES:

1.) OWNER: A.) 1962 REAL ESTATE LLC
40 WAKEFIELD STREET
ROCHESTER, NH 03866

B.) JOHN & LINDA SVENSON
P.O. BOX 10
BARRINGTON, NH 03825

2.) A.) TAX MAP 239, LOT 2

B.) TAX MAP 235, LOT 1

3.) LOT AREA: A.) 114,280 Sq. Ft., 2.62 Ac.

B.) 708,200 Sq. Ft., 16.21 Ac.

4.) S.C.R.D. A.) BOOK 4288, PAGE 115

B.) BOOK 993, PAGE 080

5.) ZONING: TOWN CENTER
FRONTAGE ~ 40.0'
MINIMUM LOT SIZE ~ 20,000 SQUARE FEET
FRONT SETBACK ~ 20.0'
NH ROUTE 125/9 SET BACK: ~ 50'
REAR SETBACK ~ 15.0'
SIDE SETBACK ~ 15.0'
COMMERCIAL / RESIDENTIAL BUFFER ~ 50.0'
WETLANDS/WATERBODY SETBACK ~ 50.0'
MAX. STRUCTURE HEIGHT: 40.0'

6.) I HEREBY CERTIFY THAT, TO THE BEST OF MY KNOWLEDGE & BELIEF, PART OF THIS PARCEL DOES FALL WITHIN THE FLOOD PLAIN FLOOD HAZARD REF.: FEMA COMMUNITY# -330176, MAP# - 33017C0305E, DATED: SEPTEMBER 30, 2015.

7.) VERTICAL DATUM BASED ON USGS NAVD88 ELEVATIONS. HORIZONTAL COORDINATES BASED ON NAD83, COORDINATES GATHERED USING TOPCON HIPER SR SURVEY GRADE GPS RECEIVERS.

8.) THE INTENT OF THIS PLAN IS TO SHOW THE EXISTING CONDITIONS OF TAX MAP 239 LOT 2 AND TAX MAP 235 LOT 1.

SOILS:

GsC – GLOUCESTER VERY STONY FINE SANDY LOAM, 8 TO 15% SLOPES
HdB – HOLLIS-CHARLTON VERY ROCKY FINE SANDY LOAMS, 3 TO 8% SLOPES
HkC – DEERFIELD LOAMY SAND, 0 TO 3% SLOPES
WdA – WINDSOR LOAMY SAND, 0 TO 3% SLOPES

SEE WEBSOIL USDA-NRCS

ROAD NOTE:

NH ROUTE 9/ FRANKLIN PIERCE HIGHWAY; CLASS V, PAVED 4 RODS WIDE, NH STATE PAPERS – BOOK 18, PAGE 859

ABUTTERS ACROSS ROAD:

N/F 614 FPH REAL ESTATE LLC
PO BOX 57
BARRINGTON, NH 03825
BOOK 4255, PAGE 398
TAX MAP 235, LOT 61

N/F MARK K & SHERRY B ROWELL
624 FRANKLIN PIERCE HWY
BARRINGTON, NH 03825
BOOK 4353, PAGE 098
TAX MAP 239, LOT 3

N/F TOWN CENTER PROPERTIES LLC
270 GULF RD
DOVER, NH 03820
S.C.R.D BOOK 4347, PAGE 950
TAX MAP 239, LOT 7

N/F VICTORIA J. & NATHANIEL LEAVITT
30 RIVERSIDE FARM DRIVE APT B
LEE, NH 03861
S.C.R.D BOOK 4484, PAGE 278
TAX MAP 239, LOT 4

LEGEND:

- DRILL HOLE (FND)
- IRON PIPE (FND)
- IRON BOUND (FND)
- UTILITY POLE
- W WELL
- NRCS SOIL DELINEATION LINE
- STONE WALL
- WETLAND LINE
- 50' WETLAND BUFFER
- BUILDING SETBACK LINE
- OHW OVERHEAD UTILITIES LINE
- S.C.R.D. STRAFFORD COUNTY REGISTRY OF DEEDS
- TYP. TYPICAL
- FND FOUND

GRAPHIC SCALE
60 0 40 80 160 320
(IN FEET)
1 inch = 80 ft.

I CERTIFY THAT THIS PLAT EXCEEDS THE MINIMUM REQUIREMENT FOR ACCURACY AND COMPLETENESS OF THE STATE OF N.H. AND OF THE TOWN OF BARRINGTON, N.H.– 1:10,000 –
8-14-18
KENNETH A. BERRY LLS 805 DATE

REVISION	DATE	DESCRIPTION

EXISTING CONDITIONS PLAN
LAND OF
1962 REAL ESTATE LLC &
JOHN & LINDA SVENSON
FRANKLIN PIERCE HIGHWAY
BARRINGTON, NH 03825
TAX MAP 239 LOT 2 & MAP 235 LOT 1

BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (603)332-2863

SCALE : 1 IN. EQUALS 80 FT.
DATE : AUGUST 13, 2018
FILE NO. : DB 2018 – 005

STATE OF NEW HAMPSHIRE No. 805 KENNETH A. BERRY LAND SURVEYOR
SIGNATURE

SHEET 2 OF 19

NOTES:

1.) THE INTENT OF THIS PLAN SET IS TO DEMONSTRATE THE CONCEPT SITE PLAN DESIGN OF A PROPOSED BANK, HOLY ROSARY CREDIT UNION, THE REVISED CONSTRUCTION OF CHRISTMAS LANE, AND A REVISED PARKING LOT FOR THE CHRISTMAS DOVE.

2.) OWNER: A.) 1962 REAL ESTATE LLC
40 WAKEFIELD STREET
ROCHESTER, NH 03866

B.) JOHN & LINDA SVENSON
P.O. BOX 10
BARRINGTON, NH 03825

3.) A.) TAX MAP 239, LOT 2

B.) TAX MAP 235, LOT 1

4.) LOT AREA: A.) 114,280 Sq. Ft., 2.62 Ac.

B.) 705,280 Sq. Ft., 16.21 Ac.

5.) S.C.R.D. A.) BOOK 4268, PAGE 115

B.) BOOK 993, PAGE 080

6.) ZONING: TOWN CENTER
FRONTAGE ~ 40.0'
MINIMUM LOT SIZE ~ 20,000 SQUARE FEET
FRONT SETBACK ~ 20.0'
NH ROUTE 125/9 SET BACK: ~ 50'
REAR SETBACK ~ 15.0'
SIDE SETBACK ~ 15.0'
COMMERCIAL/RESIDENTIAL BUFFER ~ 50.0'
WETLANDS/WATERBODY SETBACK ~ 50.0'
MAX. STRUCTURE HEIGHT: 40.0'

7.) I HEREBY CERTIFY THAT, TO THE BEST OF MY KNOWLEDGE & BELIEF, PART OF THIS PARCEL DOES FALL WITHIN THE FLOOD PLAIN FLOOD HAZARD REF.: FEMA COMMUNITY# – 330170, MAP# – 33017C0305E, DATED: SEPTEMBER 30, 2015.

8.) LOCUS PARCEL IS SUBJECT TO EASEMENTS AS NOTED.

9.) PROPERTY LINE INFORMATION HAS BEEN OBTAINED FROM A SURVEY PERFORMED BY BERRY SURVEYING & ENGINEERING IN JUNE 2017 WITH AN ERROR OF CLOSURE GREATER THAN 1 IN 20,000 UNDER NO SNOW CONDITIONS.

10.) AS-BUILT PLANS OF THE SITE SHALL BE SUBMITTED ON A REPRODUCIBLE MYLAR MEDIUM AND IN A DIGITAL DXF FORMAT ON DISK TO THE TOWN OF BARRINGTON PLANNING OFFICE UPON COMPLETION OF PROJECT. AS-BUILT PLANS SHALL BE PREPARED AND CERTIFIED CORRECT BY A L.L.S. OR P.E.

11.) TOPOGRAPHIC SURVEY PERFORMED BY BERRY SURVEYING & ENGINEERING IN SUMMER OF 2017 UNDER NO SNOW CONDITIONS AND IS SHOWN AT 1 FOOT INTERVALS

12.) DATUM: PROJECT DATUM IS BASED ON GPS COORDINATES ESTABLISHED WITH A TOPCON HIPER SR RECEIVER IN JUNE 2017 AND REPRESENTED IN NEW HAMPSHIRE STATE PLANE COORDINATES NAD 1983 AND VERTICALLY BY NAVD 1988.

13.) UNDERGROUND UTILITY LOCATIONS ARE BASED UPON BEST AVAILABLE EVIDENCE AND ARE NOT FIELD VERIFIED. LOCATING AND PROTECTING ANY ABOVE AND BELOW GROUND UTILITIES IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. ANY UTILITY CONFLICTS SHOULD BE REPORTED IMMEDIATELY TO THE DESIGN ENGINEER.

14.) ALL ON-SITE UTILITIES SHALL BE INSTALLED UNDERGROUND.

16.) THE SUBJECT PARCELS ARE NOT SERVED BY ON SITE WATER AND EFFLUENT DISPOSAL.

16.) ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO APPLICABLE TOWN AND STATE CODES.

17.) ALL EROSION CONTROL NOTES SHALL INCLUDE PROVISIONS FOR CONSTRUCTION SEQUENCING, TEMPORARY EROSION CONTROL MEASURES, AND PERMANENT STANDARDS SUCH AS LOAM SPREAD RATE FOR DISTURBED AREAS, RATES OF LIME, TYPE AND RATES FOR FERTILIZER, AND SEED AND MULCH MIXTURE WITH RATES OF APPLICATION.

18.) THE LIMITS OF CONSTRUCTION DISTURBANCE SHALL BE STAKED, FLAGGED AND CLEARLY IDENTIFIED PRIOR TO THE COMMENCEMENT OF SITE WORK.

19.) ALL TREATMENT SWALES TO BE CONSTRUCTED SHALL HAVE SOD BOTTOMS.

20.) A LETTER OF CREDIT FOR THE COST OF RE-VEGETATING ALL DISTURBED AREAS ON THE SITE SHALL BE SUBMITTED PRIOR TO ANY EARTH DISTURBING ACTIVITY OCCURS. COORDINATE WITH TOWN OF BARRINGTON, COMMUNITY SERVICES.

21.) A PRE-CONSTRUCTION CONFERENCE WITH THE DEVELOPER, THE DESIGN ENGINEER, THE EARTHWORK CONTRACTOR, AND THE TOWN ENGINEER SHALL OCCUR PRIOR TO ANY EARTH DISTURBING ACTIVITY.

22.) BUILDING ADDRESSES SHALL BE ASSIGNED BY THE BUILDING INSPECTOR AT THE TIME OF ISSUANCE OF A BUILDING PERMIT.

23.) THE FOLLOWING FEDERAL AND STATE PERMITS HAVE BEEN ISSUED FOR THE SUBJECT PROPERTY:
EPA NOTICE OF INTENT (NOI): PENDING
NHDOT DRIVEWAY PERMIT: PENDING

24.) PHASE 1 PROPOSES APPROXIMATELY 69,000 SQ. FT. OF DISTURBANCE.

25.) CALL DIG SAFE PRIOR TO BEGINNING WORK (1-888-344-7233)

26.) ALL CONSTRUCTION SHALL CONFORM TO THE STATE OF NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. CONSTRUCTION SHALL ALSO CONFORM TO THE TOWN OF BARRINGTON POLICIES AND PRACTICES, AND TOWN OF BARRINGTON SUBDIVISION REGULATIONS.

27.) WRITTEN DIMENSION ON THIS PLAN TAKE PRECEDENCE OVER SCALED DIMENSIONS. THE CONTRACTOR SHALL USE CAUTION WHEN SCALING REPRODUCED PLANS. IN THE EVENT OF A CONFLICT BETWEEN THIS PLAN SET AND ANY OTHER DRAWINGS AND/OR SPECIFICATIONS, THE ENGINEER SHALL BE NOTIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR IS TO CONFIRM ALL ELEVATIONS. CONFLICTS WILL BE REPORTED TO THE DESIGN ENGINEER PRIOR TO CONSTRUCTION.

28.) THERE IS CLEAR SITE DISTANCE IN BOTH THE EAST AND WEST DIRECTIONS AT THE PROPOSED ENTRANCE OF THE SITE. SEE PROVIDED SIGHT DISTANCE PROFILES.

29.) LAMP BASES ARE TO BE A MINIMUM OF 3' OFF THE EDGE OF PAVEMENT AND PAINTED A NEUTRAL COLOR.

30.) EXTERIOR LIGHTING SHALL BE CUT-OFF TYPE FIXTURES AND SHALL PROVIDE LIGHTING DIRECTED ON-SITE ONLY.

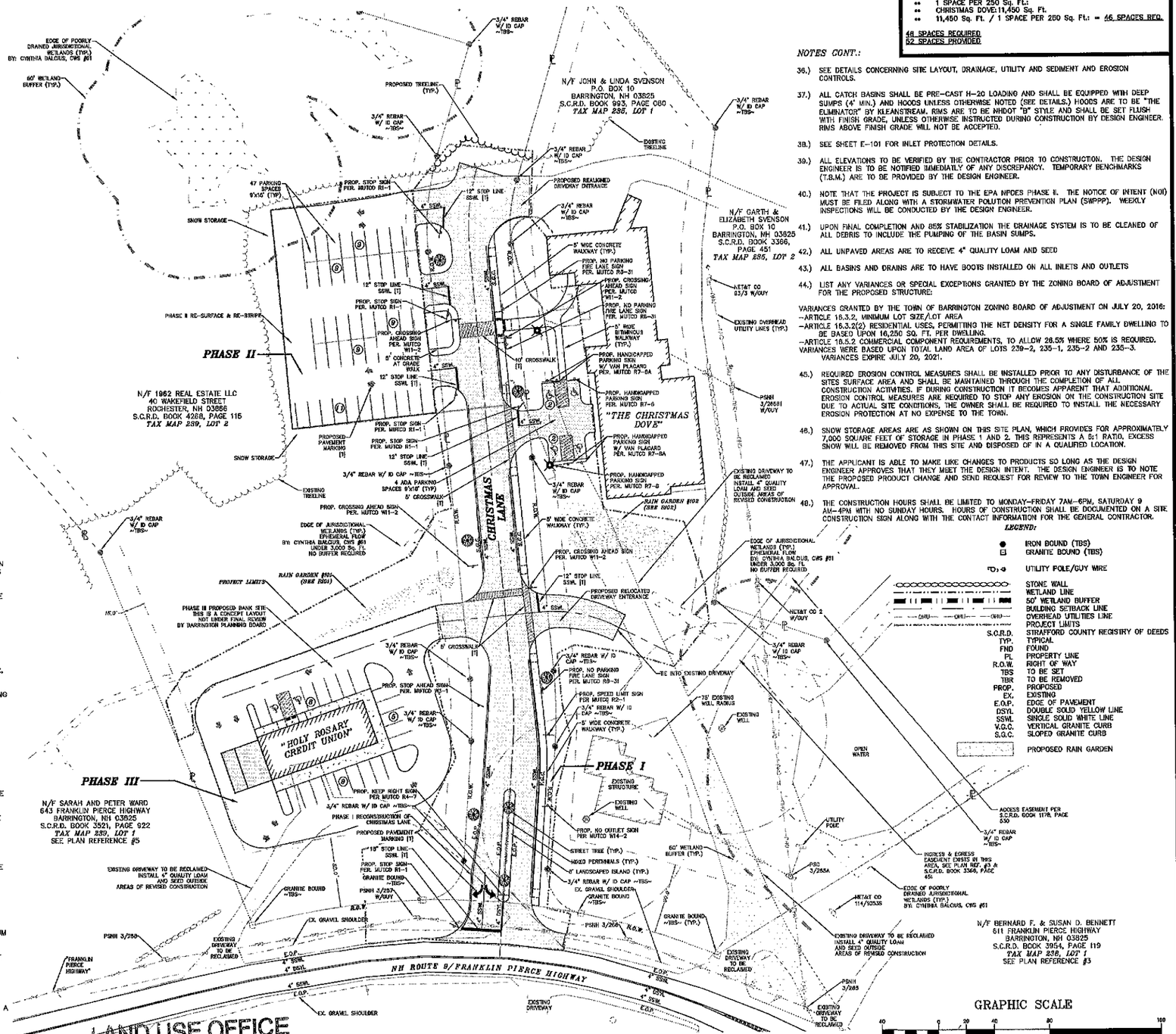
31.) CONTRACTOR SHALL COORDINATE ALL ELECTRICAL INSTALLATIONS WITH EVERSOURCE AT (603) 436-7708. ALL ELECTRIC CONDUIT INSTALLATION SHALL BE INSPECTED BY EVERSOURCE PRIOR TO BACKFILL. A 48-HOUR MINIMUM NOTICE IS REQUIRED.

32.) CONTRACTOR SHALL COORDINATE ALL TELECOMMUNICATIONS INSTALLATIONS WITH FAIRPOINT COMMUNICATIONS AT (603) 427-5525, AS APPLICABLE.

33.) CONTRACTOR SHALL COORDINATE ALL CABLE INSTALLATIONS WITH ATLANTIC BROADBAND.

34.) IF THE EARTHWORK IS PERFORMED DURING FREEZING WEATHER, EXPOSED SUBGRADES ARE SUSCEPTIBLE TO FROST. NO FILL OR UTILITIES SHALL BE PLACED ON FROZEN GROUND. THIS WILL LIKELY REQUIRE REMOVAL OF A FROZEN SOIL CRUST AT THE COMMENCEMENT OF EACH DAY'S OPERATION. THE FINAL SUBGRADE ELEVATION WOULD ALSO REQUIRE AN APPROPRIATE DEGREE OF INSULATION AGAINST FREEZING.

35.) PLACEMENT OF BORROW MATERIALS SHALL BE PERFORMED IN A MANNER THAT PREVENTS LONG TERM DIFFERENTIAL SETTLEMENT. EXCESSIVELY WET MATERIALS SHALL BE STOCKPILED AND ALLOWED TO DRAIN BEFORE PLACEMENT. FROZEN MATERIAL SHALL NOT BE USED FOR CONSTRUCTION. VOIDS BETWEEN STONES AND CLUMPS OF MATERIAL SHALL BE FILLED WITH FINE MATERIALS.



PARKING REQUIREMENTS:

TABLE 6 PARKING STANDARDS BY USE
- RETAIL STORE
  - ** 1 SPACE PER 250 Sq. Ft.:
  - ** CHRISTMAS DOVE: 11,450 Sq. Ft.
  - ** 11,450 Sq. Ft. / 1 SPACE PER 250 Sq. Ft.: = 46 SPACES REQ.

46 SPACES REQUIRED
52 SPACES PROVIDED

NOTES CONT.:

36.) SEE DETAILS CONCERNING SITE LAYOUT, DRAINAGE, UTILITY AND SEDIMENT AND EROSION CONTROLS.

37.) ALL CATCH BASINS SHALL BE PRE-CAST H-20 LOADING AND SHALL BE EQUIPPED WITH DEEP SUMPS (4' MIN.) AND HOODS UNLESS OTHERWISE NOTED (SEE DETAILS.) HOODS ARE TO BE "THE ELIMINATOR" BY KLEANSTREAM. RIMS ARE TO BE NHDOT "B" STYLE AND SHALL BE SET FLUSH WITH FINISH GRADE, UNLESS OTHERWISE INSTRUCTED DURING CONSTRUCTION BY DESIGN ENGINEER. RIMS ABOVE FINISH GRADE WILL NOT BE ACCEPTED.

38.) SEE SHEET E-101 FOR INLET PROTECTION DETAILS.

39.) ALL ELEVATIONS TO BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. THE DESIGN ENGINEER IS TO BE NOTIFIED IMMEDIATLY OF ANY DISCREPANCY. TEMPORARY BENCHMARKS (T.B.M.) ARE TO BE PROVIDED BY THE DESIGN ENGINEER.

40.) NOTE THAT THE PROJECT IS SUBJECT TO THE EPA NPDES PHASE II. THE NOTICE OF INTENT (NOI) MUST BE FILED ALONG WITH A STORMWATER POLUTION PREVENTION PLAN (SWPPP). WEEKLY INSPECTIONS WILL BE CONDUCTED BY THE DESIGN ENGINEER.

41.) UPON FINAL COMPLETION AND 85% STABILIZATION THE DRAINAGE SYSTEM IS TO BE CLEANED OF ALL DEBRIS TO INCLUDE THE PUMPING OF THE BASIN SUMPS.

42.) ALL UNPAVED AREAS ARE TO RECEIVE 4" QUALITY LOAM AND SEED

43.) ALL BASINS AND DRAINS ARE TO HAVE BOOTS INSTALLED ON ALL INLETS AND OUTLETS

44.) LIST ANY VARIANCES OR SPECIAL EXCEPTIONS GRANTED BY THE ZONING BOARD OF ADJUSTMENT FOR THE PROPOSED STRUCTURE:

VARIANCES GRANTED BY THE TOWN OF BARRINGTON ZONING BOARD OF ADJUSTMENT ON JULY 20, 2016:
-ARTICLE 16.3.2, MINIMUM LOT SIZE/LOT AREA
-ARTICLE 16.3.2(2) RESIDENTIAL USES, PERMITTING THE NET DENSITY FOR A SINGLE FAMILY DWELLING TO BE BASED UPON 16,250 SQ. FT. PER DWELLING.
-ARTICLE 16.5.2 COMMERCIAL COMPONENT REQUIREMENTS, TO ALLOW 26.5% WHERE 50% IS REQUIRED.
VARIANCES WERE BASED UPON TOTAL LAND AREA OF LOTS 239-2, 235-1, 235-2 AND 235-3.
VARIANCES EXPIRE JULY 20, 2021.

45.) REQUIRED EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO ANY DISTURBANCE OF THE SITES 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.

46.) SNOW STORAGE AREAS ARE AS SHOWN ON THIS SITE PLAN, WHICH PROVIDES FOR APPROXIMATELY 7,000 SQUARE FEET OF STORAGE IN PHASE 1 AND 2. THIS REPRESENTS A 5:1 RATIO. EXCESS SNOW WILL BE REMOVED FROM THIS SITE AND DISPOSED OF IN A QUALIFIED LOCATION.

47.) THE APPLICANT IS ABLE TO MAKE LIKE CHANGES TO PRODUCTS SO LONG AS THE DESIGN ENGINEER APPROVES THAT THEY MEET THE DESIGN INTENT. THE DESIGN ENGINEER IS TO NOTE THE PROPOSED PRODUCT CHANGE AND SEND REQUEST FOR REVIEW TO THE TOWN ENGINEER FOR APPROVAL.

48.) THE CONSTRUCTION HOURS SHALL BE LIMITED TO MONDAY-FRIDAY 7AM-6PM, SATURDAY 9 AM-4PM WITH NO SUNDAY HOURS. HOURS OF CONSTRUCTION SHALL BE DOCUMENTED ON A SITE CONSTRUCTION SIGN ALONG WITH THE CONTACT INFORMATION FOR THE GENERAL CONTRACTOR.

LEGEND:

- IRON BOUND (TBS)
- GRANITE BOUND (TBS)
- UTILITY POLE/GUY WIRE
- STONE WALL
- WETLAND LINE
- 50' WETLAND BUFFER
- BUILDING SETBACK LINE
- OHU — OHU — OHU — OVERHEAD UTILITIES LINE
- PROJECT LIMITS
- S.C.R.D. STRAFFORD COUNTY REGISTRY OF DEEDS
- TYP. TYPICAL
- FND FOUND
- PL PROPERTY LINE
- R.O.W. RIGHT OF WAY
- TBS TO BE SET
- TBR TO BE REMOVED
- PROP. PROPOSED
- EX. EXISTING
- E.O.P. EDGE OF PAVEMENT
- DSYL DOUBLE SOLID YELLOW LINE
- SSWL SINGLE SOLID WHITE LINE
- V.G.C. VERTICAL GRANITE CURB
- S.G.C. SLOPED GRANITE CURB
- PROPOSED RAIN GARDEN

LAND USE OFFICE
AUG 14 2018
RECEIVED

REVISION	DATE	DESCRIPTION

OVERVIEW SITE PLAN
LAND OF
1962 REAL ESTATE LLC &
JOHN & LINDA SVENSON
FRANKLIN PIERCE HIGHWAY
BARRINGTON, NH 03825
TAX MAP 239 LOT 2 & MAP 235 LOT 1

BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (603)332-2863

SCALE : 1 IN. EQUALS 40 FT.
DATE : AUGUST 13, 2018
FILE NO.: DB 2018 - 005

STATE OF NEW HAMPSHIRE
KENNETH A. BERRY
No. 13249
LICENSED PROFESSIONAL ENGINEER

SHEET 3 OF 19

GRAPHIC SCALE

20 0 10 20 40 60

(IN FEET)
1 inch = 20 ft.

LEGEND:

- IRON BOUND (TBS)
- GRANITE BOUND (TBS)
- UTILITY POLE/GUY WIRE
- STONE WALL
- WETLAND LINE
- 50' WETLAND BUFFER
- BUILDING SETBACK LINE
- OVERHEAD UTILITIES LINE
- PROJECT LIMITS
- S.C.R.D. STRAFFORD COUNTY REGISTRY OF DEEDS
- TYP. TYPICAL
- FND FOUND
- PL PROPERTY LINE
- R.O.W. RIGHT OF WAY
- TBS TO BE SET
- TBR TO BE REMOVED
- PROP. PROPOSED
- EX. EXISTING
- E.O.P. EDGE OF PAVEMENT
- DSYL DOUBLE SOLID YELLOW LINE
- SSWL SINGLE SOLID WHITE LINE
- V.G.C. VERTICAL GRANITE CURB
- S.G.C. SLOPED GRANITE CURB
- PROPOSED RAIN GARDEN

NOTES:

1.) THE INTENT OF THIS PLAN IS TO DEMONSTRATE THE SITE PLAN ROAD DESIGN OF CHRISTMAS LANE.

2.) OWNER: A.) 1962 REAL ESTATE LLC
40 WAKEFIELD STREET
ROCHESTER, NH 03866

B.) JOHN & LINDA SVENSON
P.O. BOX 10
BARRINGTON, NH 03866

3.) A.) TAX MAP 239, LOT 2

B.) TAX MAP 235, LOT 1

4.) S.C.R.D. A.) BOOK 4258, PAGE 115

B.) BOOK 993, PAGE 080

REVISION	DATE	DESCRIPTION

CHRISTMAS LANE LAYOUT 0+00 – 5+00
LAND OF
1962 REAL ESTATE LLC &
JOHN & LINDA SVENSON
FRANKLIN PIERCE HIGHWAY
BARRINGTON, NH 03825
TAX MAP 239 LOT 2 & MAP 235 LOT 1

BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (603)332-2863

SCALE : 1 IN. EQUALS 20 FT.
DATE : AUGUST 13, 2018
FILE NO. : DB 2018 – 005

STATE OF NEW HAMPSHIRE
KENNETH A. BERRY
No. 7971
LICENSED PROFESSIONAL ENGINEER

SHEET 4 OF 19

LAND USE OFFICE
AUG 14 2018
RECEIVED

NOTES:

1.) THE INTENT OF THIS PLAN IS TO DEMONSTRATE THE SITE PLAN DESIGN OF THE CHRISTMAS DOVE PARKING LOT AND CHRISTMAS LANE.

2.) OWNER: A.) 1962 REAL ESTATE LLC
40 WAKEFIELD STREET
ROCHESTER, NH 03866

B.) JOHN & LINDA SVENSON
P.O. BOX 10
BARRINGTON, NH 03866

3.) A.) TAX MAP 239, LOT 2

B.) TAX MAP 235, LOT 1

4.) S.C.R.D. A.) BOOK 4268, PAGE 115

B.) BOOK 993, PAGE 080

GRAPHIC SCALE

20 0 10 20 40 60

(IN FEET)
1 inch = 20 ft.

LEGEND:

- IRON BOUND (TBS)
- GRANITE BOUND (TBS)
- UTILITY POLE/GUY WIRE
- STONE WALL
- WETLAND LINE
- 50' WETLAND BUFFER
- BUILDING SETBACK LINE
- OVERHEAD UTILITIES LINE
- PROJECT LIMITS

S.C.R.D.	STRAFFORD COUNTY REGISTRY OF DEEDS
TYP.	TYPICAL
FND	FOUND
PL	PROPERTY LINE
R.O.W.	RIGHT OF WAY
TBS	TO BE SET
TBR	TO BE REMOVED
PROP.	PROPOSED
EX.	EXISTING
E.O.P.	EDGE OF PAVEMENT
DSYL	DOUBLE SOLID YELLOW LINE
SSWL	SINGLE SOLID WHITE LINE
V.G.C.	VERTICAL GRANITE CURB
S.G.C.	SLOPED GRANITE CURB

PROPOSED RAIN GARDEN

N/F 1962 REAL ESTATE LLC
40 WAKEFIELD STREET
ROCHESTER, NH 03866
S.C.R.D. BOOK 4268, PAGE 115
TAX MAP 239, LOT 2
SEE PLAN REFERENCE #1

N/F GARTH & ELIZABETH SVENSON
P.O. BOX 10
BARRINGTON, NH 03825
S.C.R.D. BOOK 3366, PAGE 451
TAX MAP 235, LOT 2
SEE PLAN REFERENCE #3

N/F JOHN & LINDA SVENSON
P.O. BOX 10
BARRINGTON, NH 03825
S.C.R.D. BOOK 993, PAGE 080
TAX MAP 235, LOT 1

"THE CHRISTMAS DOVE"
EXISTING 11,450 Sq.Ft.
SPECIALTY RETAIL STORE

CHRISTMAS LANE

LAND USE OFFICE
AUG 14 2018
RECEIVED

REVISION	DATE	DESCRIPTION

CHRISTMAS DOVE PARKING LOT SITE PLAN
LAND OF
1962 REAL ESTATE LLC &
JOHN & LINDA SVENSON
FRANKLIN PIERCE HIGHWAY
BARRINGTON, NH 03825
TAX MAP 239 LOT 2 & MAP 235 LOT 1

BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (603)332-2863

SCALE : 1 IN. EQUALS 20 FT.
DATE : AUGUST 13, 2018
FILE NO. : DB 2018 – 005

STATE OF NEW HAMPSHIRE
KENNETH A. BERRY
No. 14245
LICENSED PROFESSIONAL ENGINEER

NOTES:

1.) THE INTENT OF THIS PLAN IS TO DEMONSTRATE THE GRADING AND DRAINAGE PLAN DESIGN OF THE CHRISTMAS DOVE PARKING LOT AND CHRISTMAS LANE.

2.) OWNER: A.) 1962 REAL ESTATE LLC
40 WAKEFIELD STREET
ROCHESTER, NH 03866

B.) JOHN & LINDA SVENSON
P.O. BOX 10
BARRINGTON, NH 03866

3.) A.) TAX MAP 239, LOT 2

B.) TAX MAP 235, LOT 1

4.) S.C.R.D. A.) BOOK 4268, PAGE 115

B.) BOOK 993, PAGE 080

5.) UNDERGROUND UTILITY LOCATIONS ARE BASED UPON BEST AVAILABLE EVIDENCE AND ARE NOT FIELD VERIFIED. LOCATING AND PROTECTING ANY ABOVE AND BELOW GROUND UTILITIES IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. ANY UTILITY CONFLICTS SHOULD BE REPORTED IMMEDIATELY TO THE DESIGN ENGINEER.

6.) THE CONTRACTOR SHALL CALL AND COORDINATE WITH DIGSAFE 1-888-344-7233 AT LEAST 72 HOURS PRIOR TO COMMENCING ANY EXCAVATION ON PUBLIC OR PRIVATE PROPERTY.

7.) SEE DETAILS CONCERNING SITE LAYOUT, DRAINAGE, UTILITY AND SEDIMENT AND EROSION CONTROLS.

8.) ALL CATCH BASINS SHALL BE PRE-CAST H-20 LOADING AND SHALL BE EQUIPPED WITH DEEP SUMPS (4' MIN.) AND HOODS (SEE DETAILS) HOODS ARE TO BE "THE ELIMINATOR" BY KLEANSTREAM. RIMS ARE TO BE REXUS STYLE AND SHALL BE SET FLUSH WITH FINISH GRADE, UNLESS OTHERWISE INSTRUCTED DURING CONSTRUCTION BY DESIGN ENGINEER. RIMS ABOVE FINISH GRADE WILL BE NOT BE ACCEPTED. ALL RIMS, GRATES AND COVERS ARE TO BE U.S.A MADE.

9.) SEE SEDIMENT & EROSION CONTROL PLAN FOR INLET PROTECTION AND CONTROLS FOR THE ENTIRE SITE

10.) ALL DRAINAGE PIPE IS TO BE HDPE N-12 ASTM F2648. (GREEN PIPE) INDIVIDUAL PIPE SIZES ARE SPECIFIED

11.) ALL ELEVATIONS TO BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. THE DESIGN ENGINEER IS TO BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCY. TEMPORARY BENCHMARKS (T.B.M.) ARE TO BE PROVIDED BY THE DESIGN ENGINEER.

12.) NOTE THAT THE PROJECT IS SUBJECT TO THE EPA NPDES PHASE II. THE NOTICE OF INTENT (NOI) MUST BE FILED ALONG WITH A STORMWATER POLUTION PREVENTION PLAN (SWPPP). WEEKLY INSPECTIONS WILL BE CONDUCTED BY THE DESIGN ENGINEER.

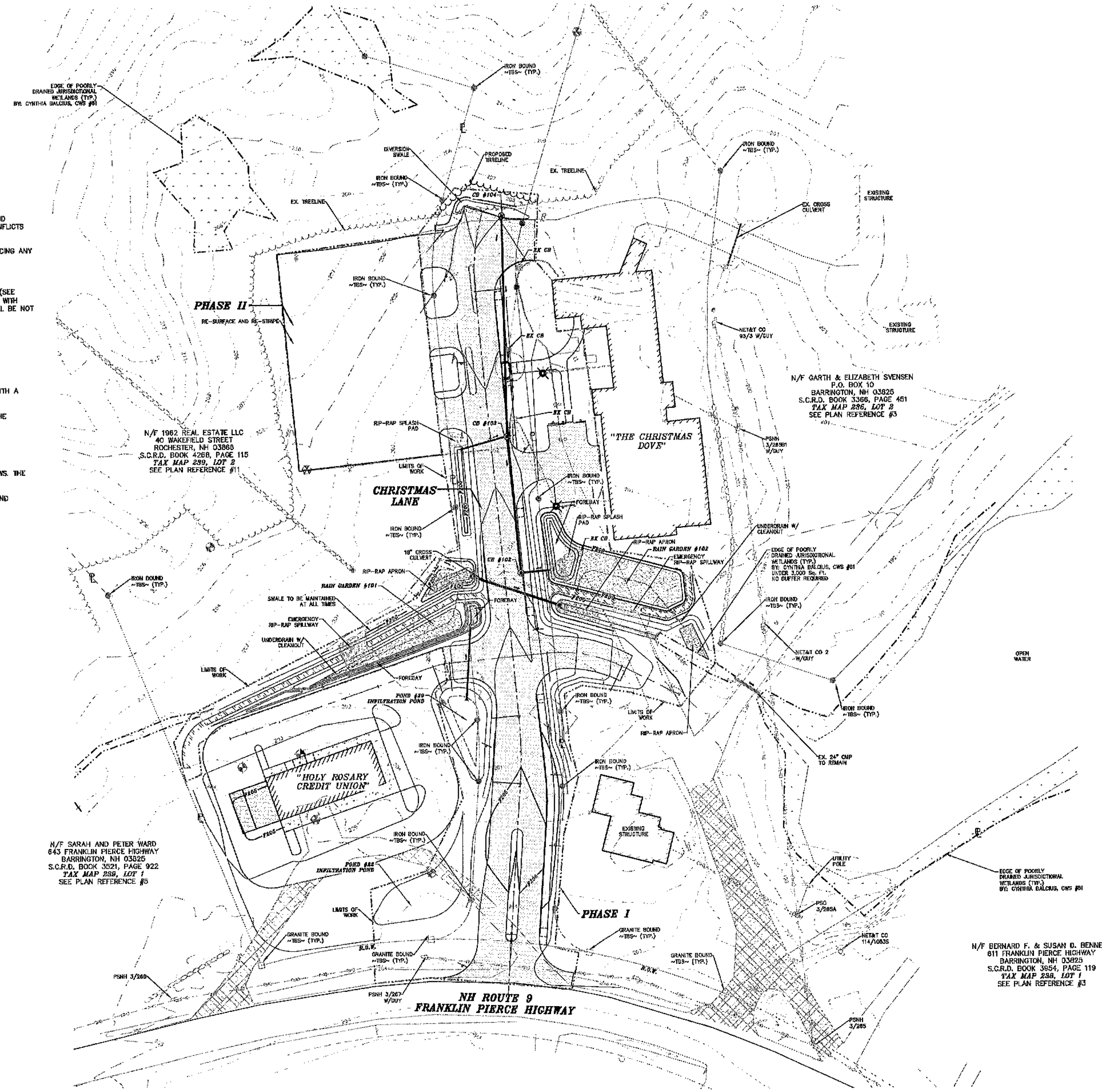
13.) UPON FINAL COMPLETION AND 85% STABALIZATION THE DRAINAGE SYSTEM IS TO BE CLEANED OF ALL DEBRIS TO INCLUDE THE PUMPING OF THE BASIN SUMPS.

14.) ALL UNPAVED AREAS ARE TO RECEIVE 4" QUALITY LOAM AND SEED

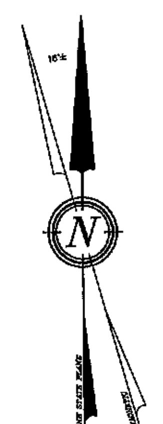
15.) ALL BASINS AND DRAINS ARE TO HAVE BOOTS INSTALLED ON ALL INLETS AND OUTLETS

16.) ALL PROPOSED CLEAN OUTS ARE TO BE VERTICAL 12" N-12 PIPE WITH CAST IRON COVERS SCREWED WITH STAINLESS SCREWS. THE COVER IS TO BE DEMARCATED WITH A "D"

19.) THE RE-USE OF EXISTING BASIN STRUCTURES, CONES AND RIMS WILL BE EVALUATED ON SITE WITH THE DESIGN ENGINEER AND CONTRACTOR.



LAND USE OFFICE
AUG 14 2018
RECEIVED



GRAPHIC SCALE

40 0 20 40 80 160

(IN FEET)
1 inch = 40 ft.

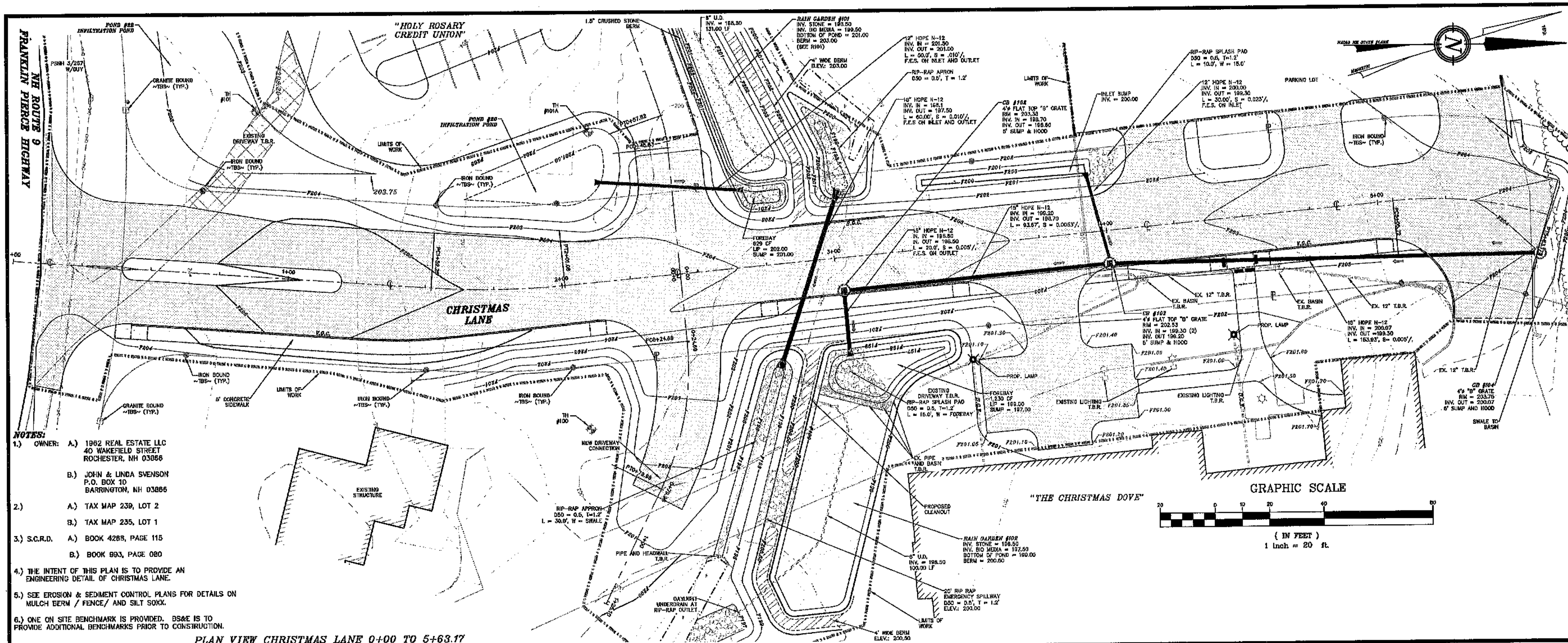
REVISION	DATE	DESCRIPTION

GRADING AND DRAINAGE OVERVIEW PLAN
LAND OF
1962 REAL ESTATE LLC &
JOHN & LINDA SVENSON
FRANKLIN PIERCE HIGHWAY
BARRINGTON, NH 03825
TAX MAP 239 LOT 2 & MAP 235 LOT 1

BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (603)332-2863

SCALE : 1 IN. EQUALS 40 FT.
DATE : AUGUST 13, 2018
FILE NO. : DB 2018 - 005

STATE OF NEW HAMPSHIRE
KENNETH A. BERRY
No.
LICENSED
PROFESSIONAL ENGINEER



NOTES:

1.) OWNER: A.) 1962 REAL ESTATE LLC
40 WAKEFIELD STREET
ROCHESTER, NH 03866

B.) JOHN & LINDA SVENSON
P.O. BOX 10
BARRINGTON, NH 03866

2.) A.) TAX MAP 239, LOT 2

B.) TAX MAP 235, LOT 1

3.) S.C.R.D. A.) BOOK 4268, PAGE 115

B.) BOOK 993, PAGE 080

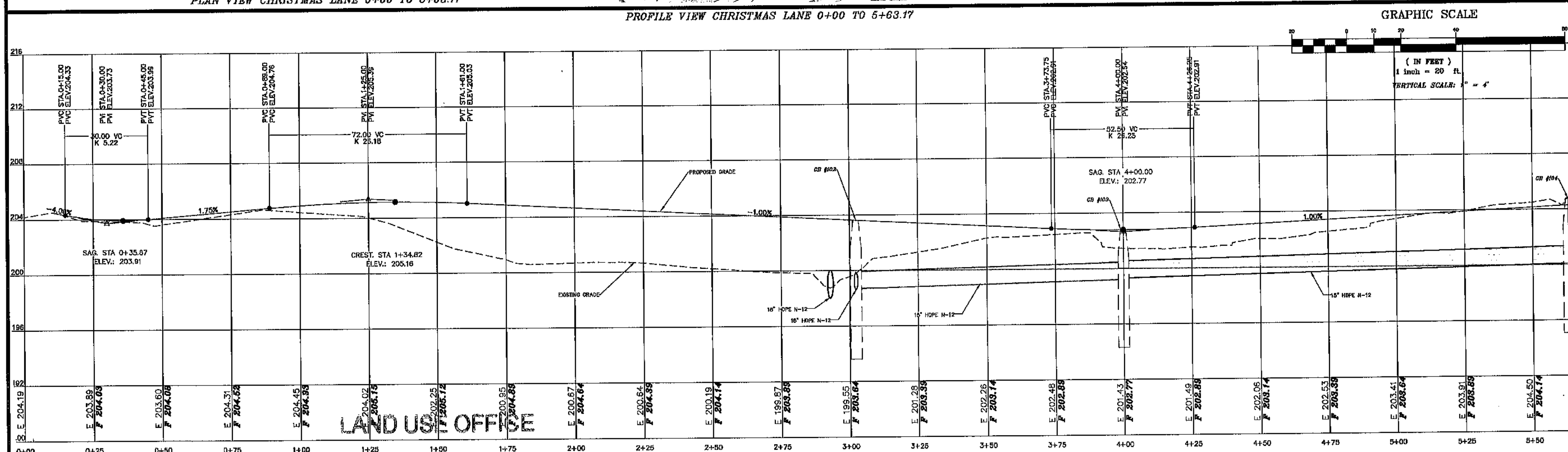
4.) THE INTENT OF THIS PLAN IS TO PROVIDE AN ENGINEERING DETAIL OF CHRISTMAS LANE.

5.) SEE EROSION & SEDIMENT CONTROL PLANS FOR DETAILS ON MULCH BERM / FENCE/ AND SILT SOXX.

6.) ONE ON SITE BENCHMARK IS PROVIDED. BS&E IS TO PROVIDE ADDITIONAL BENCHMARKS PRIOR TO CONSTRUCTION.

PLAN VIEW CHRISTMAS LANE 0+00 TO 5+63.17

PROFILE VIEW CHRISTMAS LANE 0+00 TO 5+63.17



REVISION | DATE | DESCRIPTION

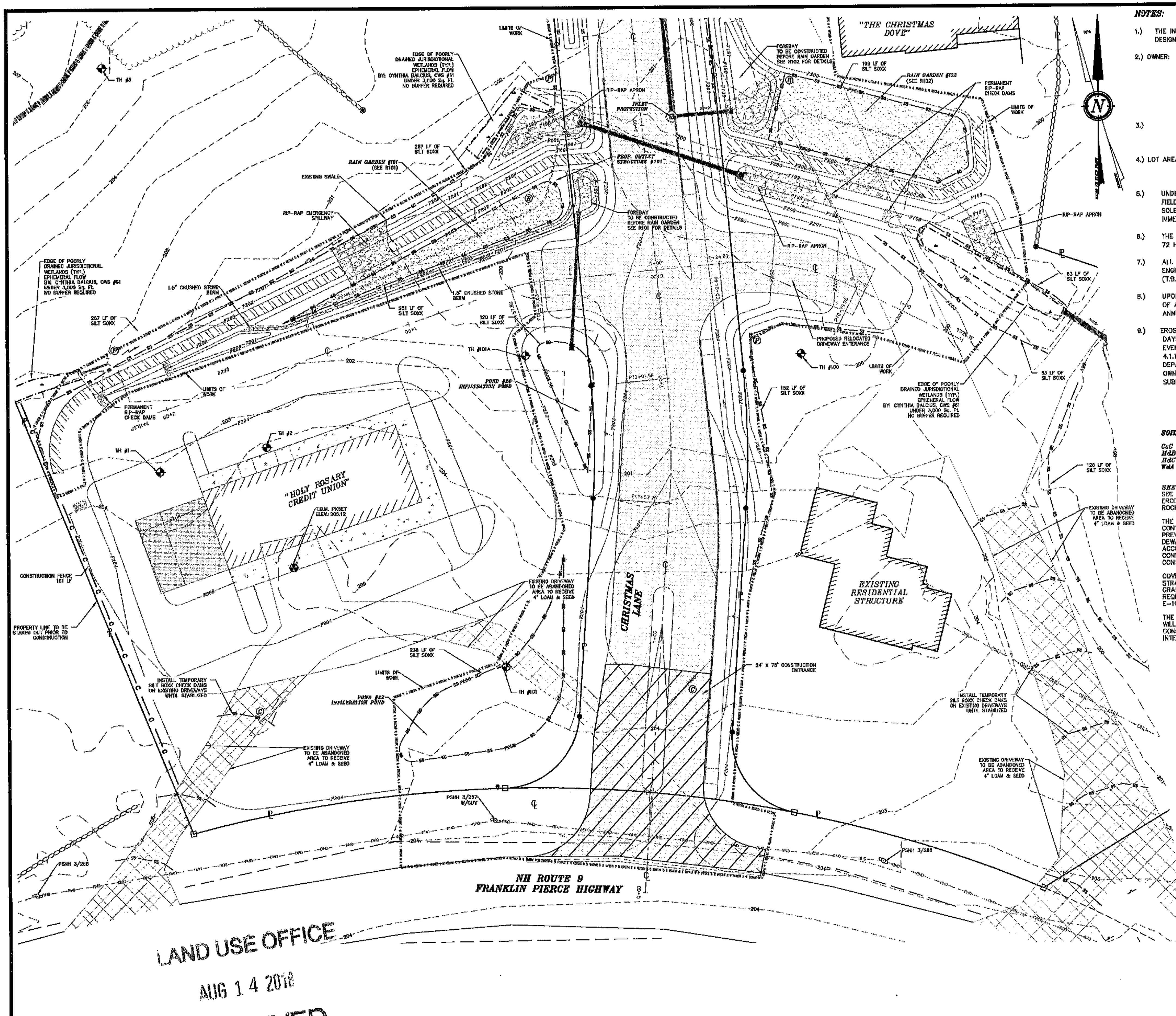
GRADING AND DRAINAGE CHRISTMAS LANE 0+00 TO 5+50
LAND OF
1962 REAL ESTATE LLC &
JOHN & LINDA SVENSON
FRANKLIN PIERCE HIGHWAY
BARRINGTON, NH 03825
TAX MAP 239 LOT 2 & MAP 235 LOT 1

BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (603)332-2863

SCALE : 1 IN. EQUALS 20 FT.
DATE : AUGUST 13, 2018
FILE NO. : DB 2018 - 005

STATE OF NEW HAMPSHIRE
KENNETH A. BERRY
No. 11243
LICENSED
PROFESSIONAL ENGINEER

SHEET 7 OF 19



NOTES:

1.) THE INTENT OF THIS PLAN SET IS TO DEMONSTRATE THE EROSION AND SEDIMENT CONTROL DESIGN OF THE SITE AT CHRISTMAS LANE.

2.) OWNER:
   A.) 1962 REAL ESTATE LLC
   40 WAKEFIELD STREET
   ROCHESTER, NH 03866

   B.) JOHN & LINDA SVENSON
   P.O. BOX 10
   BARRINGTON, NH 03825

3.) A.) TAX MAP 239, LOT 2

   B.) TAX MAP 235, LOT 1

4.) LOT AREA: A.) 114,280 Sq. Ft., 2.62 Ac.

   B.) 706,280 Sq. Ft., 16.21 Ac.

5.) UNDERGROUND UTILITY LOCATIONS ARE BASED UPON BEST AVAILABLE EVIDENCE AND ARE NOT FIELD VERIFIED. LOCATING AND PROTECTING ANY ABOVE AND BELOW GROUND UTILITIES IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. ANY UTILITY CONFLICTS SHOULD BE REPORTED IMMEDIATELY TO THE DESIGN ENGINEER.

6.) THE CONTRACTOR SHALL CALL AND COORDINATE WITH DIGSAFE 1-888-344-7233 AT LEAST 72 HOURS PRIOR TO COMMENCING ANY EXCAVATION ON PUBLIC OR PRIVATE PROPERTY.

7.) ALL ELEVATIONS TO BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. THE DESIGN ENGINEER IS TO BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCY. TEMPORARY BENCHMARKS (T.B.M.) ARE TO BE PROVIDED BY THE DESIGN ENGINEER.

8.) UPON FINAL COMPLETION AND 85% STABILIZATION, THE DRAINAGE SYSTEM IS TO BE CLEANED OF ALL DEBRIS. SEDIMENT CONTROL PRACTICES REMOVED AND DISPOSED OF PROPERLY, AND ANNUAL MAINTENANCE PREFORMED ON ALL DRAINAGE PRACTICES.

9.) EROSION AND SEDIMENT CONTROL INSPECTIONS TO BE CONDUCTED ONCE PER EVERY SEVEN DAYS AND AT AN INCREASED FREQUENCY INCLUDING WITHIN 24-HOURS OF A 0.25 INCH RAIN EVENT. INSPECTIONS TO BE CONDUCTED BY A "QUALIFIED PERSON" AS DEFINED BY EPA CGP 4.1.1 AND INSPECTION REPORTS SUBMITTED TO THE TOWN OF BARRINGTON, NH, ENGINEERING DEPARTMENT WITHIN 24 HOURS IN ACCORDANCE WITH CGP 4.1.7 AND MAINTAINED BY THE OWNER FOR A PERIOD OF THREE YEARS AFTER THE NOTICE OF TERMINATION (NOT) IS SUBMITTED.

SOILS & DEWATERING:

CsC	*GLOUCESTER*	*FINE SANDY LOAM*	*K= 0.17*
HdB	*HOLLIS*	*FINE SANDY LOAM*	*K= 0.20*
HdC	*DEERFIELD*	*LOAMY SAND*	*K= 0.17*
WdA	*WINDSOR*	*LOAMY SAND*	*K= 0.17*

SEE SITE SPECIFIC SOILS MAP (SSSM)
SEE WEBSOIL USDA-NRCS
ERODIBILITY FACTOR - K, CPESC MANUAL, ENVIROCERT INTERNATIONAL INC. & ROCKINGHAM COUNTTY SOIL SURVEY, ROCKWEB SOIL ATTRIBUTES

THE SOIL ERODIBILITY FACTOR (K) OF THE SOILS VARIES SLIGHTLY FROM .017 TO .020. CONTRACTOR TO BE AWARE OF THE SOIL PROFILES AND ENSURE THAT PROPER EROSION PREVENTION AND SEDIMENT CONTROL MEASURES ARE TAKEN AT ALL TIMES. ANY DEWATERING REQUIREMENTS IN NEW HAMPSHIRE REQUIRE SPECIAL PROVISIONS IN ACCORDANCE WITH THE "CLARIFICATION OF SECTION 9.1.2 (STATE OF NEW HAMPSHIRE CONDITIONS) AND OTHER NH SPECIFIC INFORMATION FOR THE U.S. EPA 2012 NPDES CONSTRUCTION GENERAL PERMIT (CGP)" DATED MAY 3, 2012 INCLUDED IN THE SWPPP.

COVER MANAGEMENT DURING CONSTRUCTION FOR EXPOSED SOIL WILL INCLUDE HAY / STRAW APPLIED AT A RATE OF 2.0 TONS PER ACRE, TEMPORARY SEEDING OF ANNUAL RYE GRASS, AND PERMANENT SEEDING AT THE EARLIES OPPORTUNITY. SEE ADDITIONAL REQUIREMENT FOR STABILIZATION ON THE EROSION AND SEDIMENT CONTROL DETAIL SHEETS, E-101 AND E-102.

THE CONSTRUCTION SCHEDULE WILL BE MANAGED SO THAT ALL STORMWATER STRUCTURES WILL BE BUILT AND STABILIZED PRIOR TO RECEIVING SURFACE WATER RUNOFF. CONTRACTOR TO BE RESPONSIBLE FOR ALL DIVERSIONS DURING CONSTRUCTION AND FOR INTERIM SEDIMENT AND EROSION CONTROL MEASURES.

LEGEND:

- Ⓡ RAIN GARDEN BIO-MEDIA PROTECTION
- Ⓟ PERIMETER CONTROL
- Ⓒ RESIDENTIAL/ROADWAY CONSTRUCTION
- IRON PIPE (FND)
- IRON BOUND (FND)
- REBAR (FND)
- UTILITY POLE
- GUY WIRE
- WELL
- BENCHMARK
- CONIFEROUS TREE
- DECIDUOUS TREE
- SF — SILT FENCE
- SS — FILTREXX SILTSOXX
- TREE LINE
- NRCS SOIL DELINEATION
- CsB — SOIL TYPE

GRAPHIC SCALE

(IN FEET)
1 inch = 20 ft.

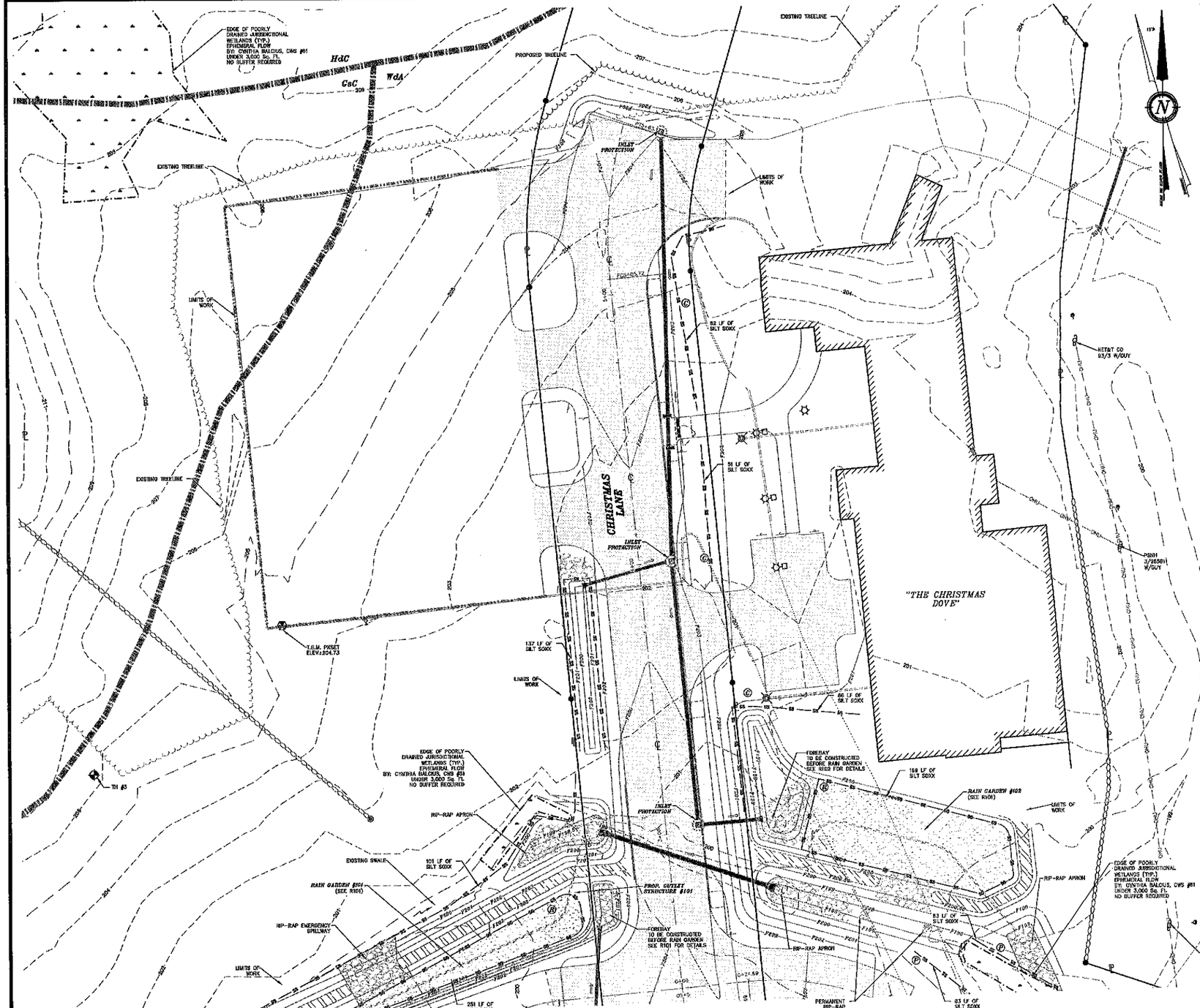
REVISION	DATE	DESCRIPTION

EROSION AND SEDIMENT CONTROL PLAN HRCU
LAND OF
1962 REAL ESTATE LLC &
JOHN & LINDA SVENSON
FRANKLIN PIERCE HIGHWAY
BARRINGTON, NH 03825
TAX MAP 239 LOT 2 & MAP 235 LOT 1

BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (603)332-2863

SCALE : 1 IN. EQUALS 20 FT.
DATE : AUGUST 13, 2018
FILE NO. : DB 2018 - 005

STATE OF NEW HAMPSHIRE
KENNETH A. BERRY
LICENSED PROFESSIONAL ENGINEER



NOTES:

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B.) JOHN & LINDA SVENSON
P.O. BOX 10
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HdC	*DERRYFIELD*	*LOAMY SAND*	*K= 0.17*
WdA	*WINDSOR*	*LOAMY SAND*	*K= 0.17*

SEE SITE SPECIFIC SOILS MAP (SSSM)
SEE WEBSOIL USDA-NRCS
ERODIBILITY FACTOR - K, CPESC MANUAL, ENVIROCERT INTERNATIONAL INC. & ROCKINGHAM COUNTY SOIL SURVEY, ROCKWEB SOIL ATTRIBUTES

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LEGEND:

- RAIN GARDEN BIO-MEDIA PROTECTION
- PERIMETER CONTROL
- RESIDENTIAL/ROADWAY CONSTRUCTION
- IRON PIPE (FND)
- IRON BOUND (FND)
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- BENCHMARK
- CONIFEROUS TREE
- DECIDUOUS TREE
- SILT FENCE
- FILTREXX SILTSOXX
- TREE LINE
- NRCS SOIL DELINEATION
- SOIL TYPE

REVISION	DATE	DESCRIPTION

EROSION AND SEDIMENT CONTROL PLAN CHRISTMAS DOVE
LAND OF
1962 REAL ESTATE LLC &
JOHN & LINDA SVENSON
FRANKLIN PIERCE HIGHWAY
BARRINGTON, NH 03825
TAX MAP 239 LOT 2 & MAP 235 LOT 1

BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (603)332-2863

SCALE : 1 IN. EQUALS 20 FT.
DATE : AUGUST 13, 2018
FILE NO. : DB 2018 - 005

STATE OF NEW HAMPSHIRE
KENNETH A. BERRY
No. 9749
LICENSED PROFESSIONAL ENGINEER

SHEET 9 OF 19

FILTER MEDIA MIXTURES			
Component Material	Percent of Mixture by Volume	Gradation of material	
		Sieve No.	Percent by Weight Passing Standard Sieve
Filter Media Option A			
ASTM C-33 concrete sand	50 to 55		
Loamy sand topsoil, with fines as indicated	20 to 30	200	15 to 25
Moderately fine shredded bark or wood fiber mulch, with fines as indicated	20 to 30	200	< 5

CRUSHED STONE BEDDING *

SIEVE SIZE	% PASSING BY WEIGHT
1"	100
3/4"	90 - 100
3/8"	20 - 55
# 4	0 -10
# 8	0 - 5

* EQUIVALENT TO STANDARD STONE SIZE #67 – SECTION 702 OF NHDOT NHDOT STANDARD SPECIFICATIONS

CRUSHED STONE BEDDING *

SIEVE SIZE	% PASSING BY WEIGHT
1/2"	100
3/8"	90 - 100
#4"	20 - 55
# 8	5 -30
# 16	0 - 10
# 50	0 - 5

* EQUIVALENT TO STANDARD STONE SIZE #89 – SECTION 702 OF NHDOT NHDOT STANDARD SPECIFICATIONS

NOTES

1. WHEN CONTRACTOR EXCAVATES RAIN GARDEN AREA TO SUBGRADE, DESIGN ENGINEER SHALL PERFORM SUBSURFACE EVALUATION PRIOR TO THE PLACEMENT OF ANY SELECT MATERIAL OR OTHER BACKFILL.
2. SOIL FILTER MEDIA SHALL BE AS SHOWN ABOVE.
3. COMPACTION IS NOT TO OCCUR IN THE RAIN GARDEN AREAS PRIOR TO CONSTRUCTION. SCARIFICATION REQUIRED IN THE EVENT COMPACTION TAKES PLACE.
4. DO NOT PLACE THE BIORETENTION SYSTEM INTO SERVICE UNTIL THE BMP HAS BEEN PLANTED AND ITS CONTRIBUTING AREAS HAVE BEEN FULLY STABILIZED.
5. DO NOT DISCHARGE SEDIMENT-LADEN WATERS FROM CONSTRUCTION ACTIVITIES (RUNOFF WATER FROM EXCAVATIONS) TO THE BIORETENTION AREA DURING ANY STAGE OF CONSTRUCTION.
6. DO NOT TRAFFIC EXPOSED SOIL SURFACE WITH CONSTRUCTION EQUIPMENT. IF FEASIBLE PERFORM EXCAVATIONS WITH EQUIPMENT POSITIONED OUTSIDE THE LIMITS OF THE INFILTRATION COMPONENTS OF THE SYSTEM.
7. BUILD RAIN GARDENS FIRST TO DIRECT SITE RUN OFF TO THEM.

MAINTENANCE REQUIREMENTS

1 SYSTEMS SHOULD BE INSPECTED AT LEAST TWICE ANNUALLY, AND FOLLOWING ANY RAINFALL EXCEEDING 2.5 INCHES IN A 24-HOUR PERIOD, WITH MAINTENANCE OR REHABILITATION CONDUCTED AS A WARRANTED BY SUCH INSPECTION.

2 PRETREATMENT MEASURES SHOULD BE INSPECTED AT LEAST TWICE ANNUALLY, AND CLEANED OF ACCUMULATED SEDIMENT AS WARRANTED BY INSPECTION, BUT NO LESS THAN ONCE ANNUALLY.

3 AT LEAST ONCE ANNUALLY, SYSTEM SHOULD BE INSPECTED FOR DRAWDOWN TIME. IF BIORETENTION SYSTEM DOES NOT DRAIN WITHIN 72-HOURS FOLLOWING A RAINFALL EVENT, THEN A QUALIFIED PROFESSIONAL SHOULD ASSESS THE CONDITION OF THE FACILITY TO DETERMINE MEASURES REQUIRED TO RESTORE FILTRATION FUNCTION OR INFILTRATION FUNCTION (AS APPLICABLE), INCLUDING BUT NOT LIMITED TO REMOVAL OF ACCUMULATED SEDIMENTS OR RECONSTRUCTION OF THE FILTER MEDIA.

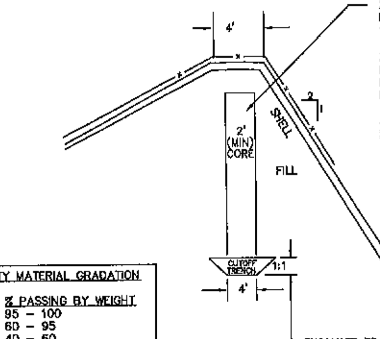
4 VEGETATION SHOULD BE INSPECTED AT LEAST ANNUALLY, AND MAINTAINED IN HEALTHY CONDITION, INCLUDING PRUNING, REMOVAL, AND REPLACEMENT OF DEAD OR DISEASED VEGETATION, AND REMOVAL OF INVASIVE SPECIES.

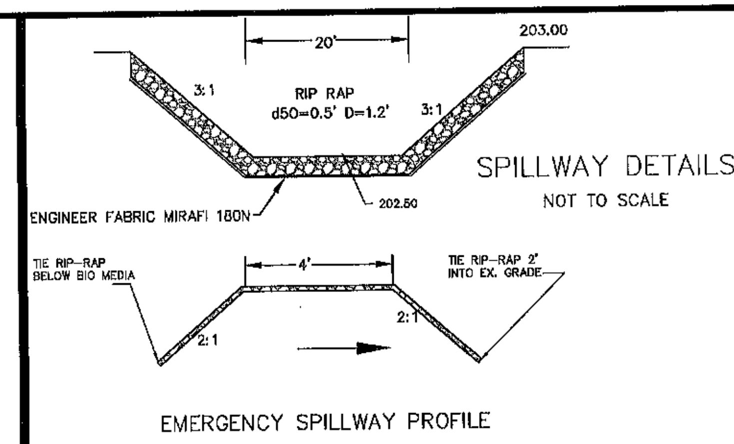
DESIGN REFERENCES

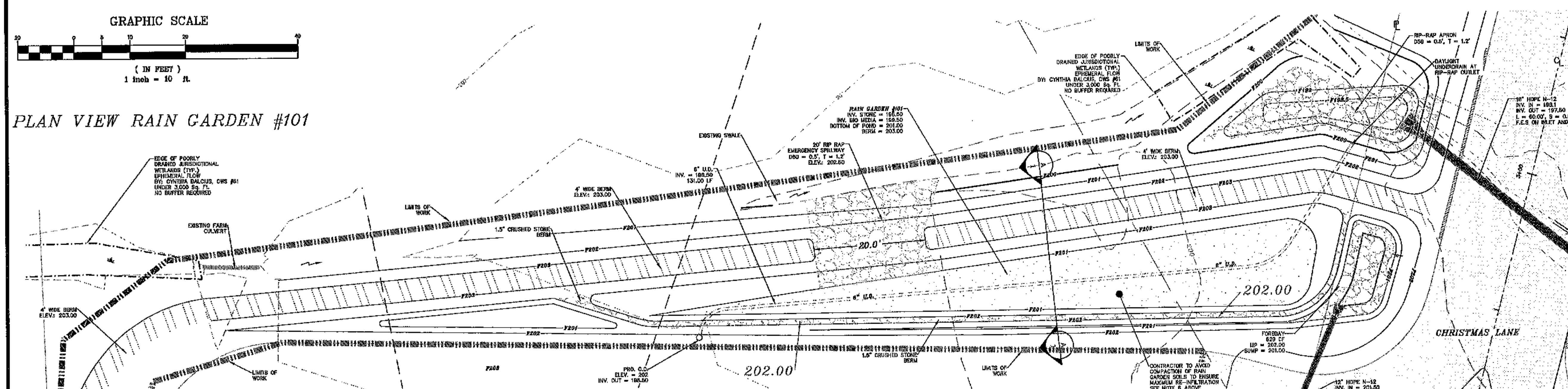
1 UNH STORMWATER CENTER
2 NEW HAMPSHIRE STORMWATER MANAGEMENT MANUAL, VOLUME 2, DECEMBER 2008 AS AMENDED.

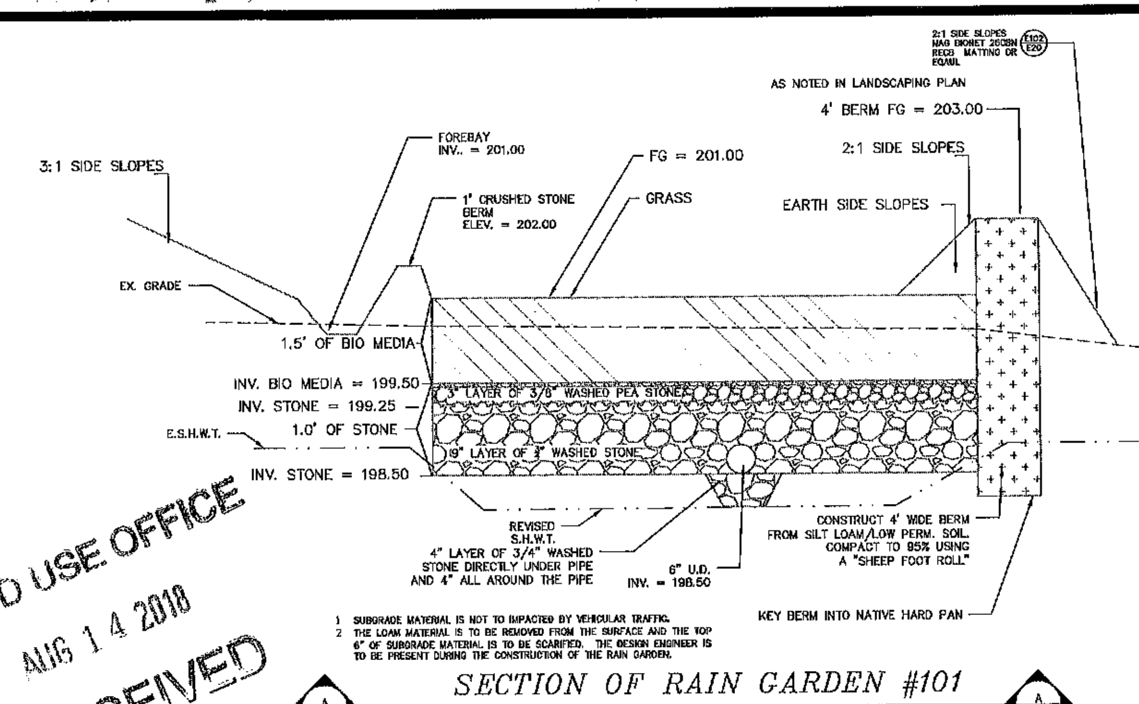
LOW PERMEABILITY MATERIAL GRADATION

SIEVE SIZE	% PASSING BY WEIGHT
#4	95 - 100
#40	60 - 95
#100	40 - 60
#200	25 - 45









1 SUBGRADE MATERIAL IS NOT TO IMPACTED BY VEHICULAR TRAFFIC.
2 THE LOAM MATERIAL IS TO BE REMOVED FROM THE SURFACE AND THE TOP 6" OF SUBGRADE MATERIAL IS TO BE SCARIFIED. THE DESIGN ENGINEER IS TO BE PRESENT DURING THE CONSTRUCTION OF THE RAIN GARDEN.

SECTION OF RAIN GARDEN #101

R101

REVISION	DATE	DESCRIPTION

RAIN GARDEN #101 DETAILS
LAND OF
1962 REAL ESTATE LLC &
JOHN & LINDA SVENSON
FRANKLIN PIERCE HIGHWAY
BARRINGTON, NH 03825
TAX MAP 239 LOT 2 & MAP 235 LOT 1

BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (603)332-2863

SCALE : 1 IN. EQUALS 10 FT.
DATE : AUGUST 13, 2018
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FILTER MEDIA MIXTURES			
Component Material	Percent of Mixture by Volume	Gradation of material	
		Sieve No.	Percent by Weight Passing Standard Sieve
Filter Media Option A			
ASTM C-33 concrete sand	50 to 55		
Loamy sand topsoil, with fines as indicated	20 to 30	200	15 to 25
Moderately fine shredded bark or wood fiber mulch, with fines as indicated	20 to 30	200	< 5

CRUSHED STONE BEDDING *

SIEVE SIZE	% PASSING BY WEIGHT
1"	100
3/4"	90 – 100
3/8"	20 – 55
# 4	0 –10
# 8	0 – 5

* EQUIVALENT TO STANDARD STONE SIZE #67 – SECTION 702 OF NHDOT NHDOT STANDARD SPECIFICATIONS

CRUSHED STONE BEDDING *

SIEVE SIZE	% PASSING BY WEIGHT
1/2"	100
3/8"	90 – 100
#4"	20 – 55
# 8	5 –30
# 16	0 – 10
# 50	0 – 5

* EQUIVALENT TO STANDARD STONE SIZE #89 – SECTION 702 OF NHDOT NHDOT STANDARD SPECIFICATIONS

NOTES

1. WHEN CONTRACTOR EXCAVATES RAIN GARDEN AREA TO SUBGRADE, DESIGN ENGINEER SHALL PERFORM SUBSURFACE EVALUATION PRIOR TO THE PLACEMENT OF ANY SELECT MATERIAL OR OTHER BACKFILL.
2. SOIL FILTER MEDIA SHALL BE AS SHOWN ABOVE.
3. COMPACTION IS NOT TO OCCUR IN THE RAIN GARDEN AREAS PRIOR TO CONSTRUCTION. SCARIFICATION REQUIRED IN THE EVENT COMPACTION TAKES PLACE.
4. DO NOT PLACE THE BIORETENTION SYSTEM INTO SERVICE UNTIL THE BMP HAS BEEN PLANTED AND ITS CONTRIBUTING AREAS HAVE BEEN FULLY STABILIZED.
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7. BUILD RAIN GARDENS FIRST TO DIRECT SITE RUN OFF TO THEM.

MAINTENANCE REQUIREMENTS

1 SYSTEMS SHOULD BE INSPECTED AT LEAST TWICE ANNUALLY, AND FOLLOWING ANY RAINFALL EXCEEDING 2.5 INCHES IN A 24-HOUR PERIOD, WITH MAINTENANCE OR REHABILITATION CONDUCTED AS A WARRANTED BY SUCH INSPECTION.

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DESIGN REFERENCES

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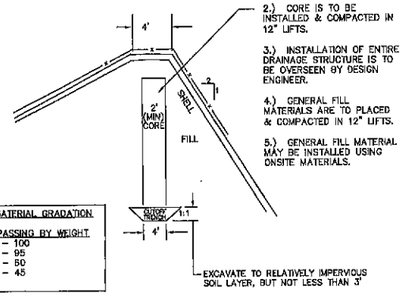
2 NEW HAMPSHIRE STORMWATER MANAGEMENT MANUAL, VOLUME 2, DECEMBER 2008 AS AMENDED.



1.) 2' CORE IS TO BE CONSTRUCTED OF COMPACTED LOAM MATERIAL.

2.) CORE IS TO BE INSTALLED & COMPACTED IN 12" LIFTS.

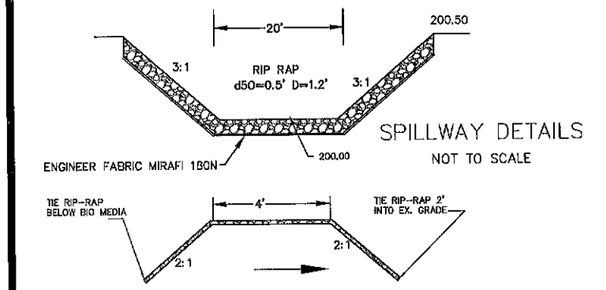
3.) INSTALLATION OF ENTIRE DRAINAGE STRUCTURE IS TO BE OVERSEEN BY DESIGN ENGINEER.

4.) GENERAL FILL MATERIALS ARE TO PLACED & COMPACTED IN 12" LIFTS.

5.) GENERAL FILL MATERIAL MAY BE INSTALLED USING ONSITE MATERIALS.

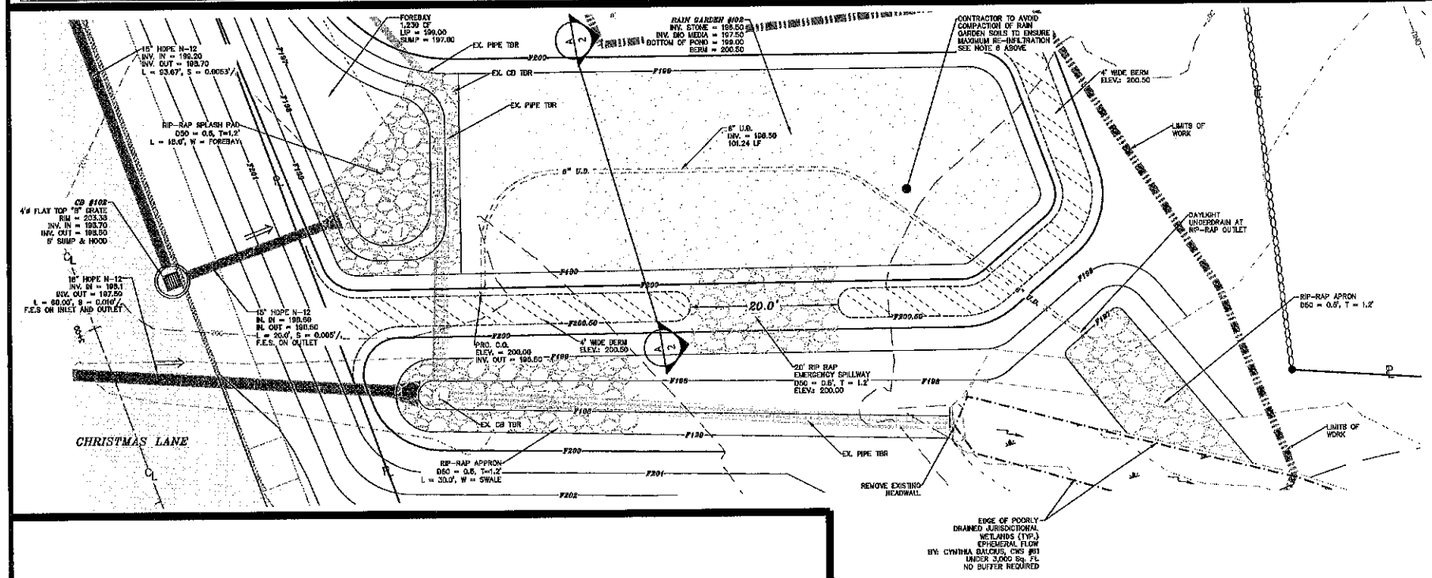
LOW PERMEABILITY MATERIAL GRADATION

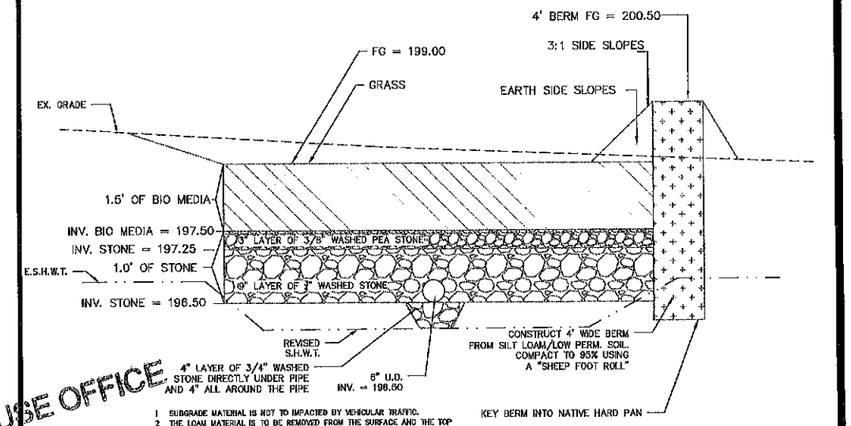
SIEVE SIZE	% PASSING BY WEIGHT
#4	95 – 100
#40	50 – 95
#100	40 – 80
#200	25 – 45



SPILLWAY DETAILS
NOT TO SCALE

EMERGENCY SPILLWAY PROFILE R102





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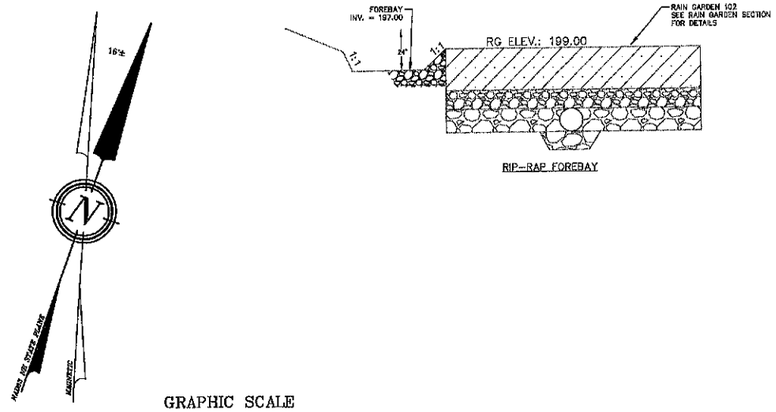
SECTION OF RAIN GARDEN #102



PLAN VIEW RAIN GARDEN #102

LAND USE OFFICE
AUG 14 2018
RECEIVED

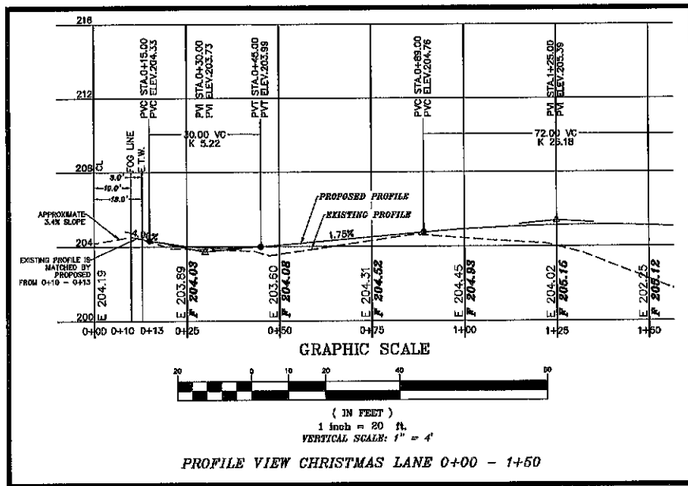
REVISION	DATE	DESCRIPTION

RAIN GARDEN #102 DETAILS
LAND OF
1962 REAL ESTATE LLC &
JOHN & LINDA SVENSON
FRANKLIN PIERCE HIGHWAY
BARRINGTON, NH 03825
TAX MAP 239 LOT 2 & MAP 235 LOT 1

BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (603)332-2863
SCALE : 1 IN. EQUALS 10 FT.
DATE : AUGUST 13, 2018
FILE NO. : DB 2018 – 005

STATE OF NEW HAMPSHIRE KENNETH A. BERRY 9673 LICENSED PROFESSIONAL ENGINEER

R102

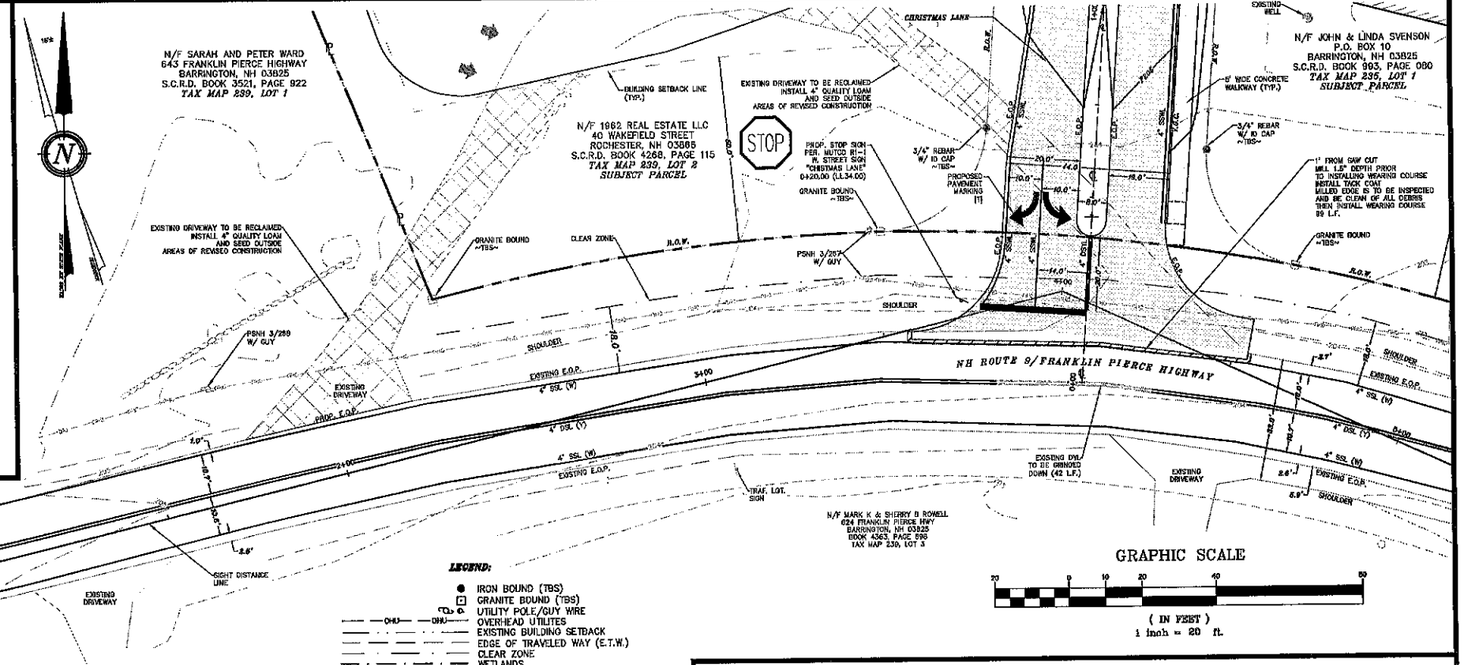


GRAPHIC SCALE

20 0 10 20 40 60

(IN FEET)
1 inch = 20 ft.
VERTICAL SCALE: 1" = 4'

PROFILE VIEW CHRISTMAS LANE 0+00 - 1+50



GRAPHIC SCALE

20 0 10 20 40 60

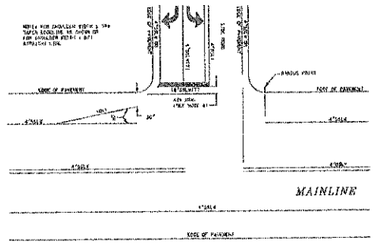
(IN FEET)
1 inch = 20 ft.

PLAN VIEW FRANKLIN PIERCE HIGHWAY

LEGEND:

- IRON BOUND (TBS)
- GRANITE BOUND (TBS)
- UTILITY POLE/GUY WIRE
- OHU — OVERHEAD UTILITIES
- EXISTING BUILDING SETBACK
- EDGE OF TRAVELED WAY (E.T.W.)
- CLEAR ZONE
- WETLANDS
- 50' WETLAND BUFFER
- S.C.R.D. STRAFFORD COUNTY REGISTRY OF DEEDS
- TYP. TYPICAL
- FND FOUND
- PL PROPERTY LINE
- E.O.P. EDGE OF PAVEMENT
- T.B.R. TO BE REMOVED
- SSL (W) SINGLE SOLID LINE (WHITE)
- SSL (Y) SINGLE SOLID LINE (YELLOW)
- SSB (Y) SINGLE SOLID WITH BROKEN LINE (YELLOW)
- DRIVEWAY TO BE RECLAIMED

CENTERLINE AND EDGELINE "CUTS" AT SIDE ROAD W/ TURN LANES



GENERAL NOTES

1.) EDGE LINE DETAILS ARE SHOWN FOR MAINLINE ROADWAYS WITHOUT TURN LANE. THE PRESENCE OF TURN LANES MAY REQUIRE DIFFERENT EDGELINE TREATMENTS.

2.) EDGELINES ON THE SIDE ROADS, WHEN CALLED FOR, SHALL FOLLOW THE ABOVE MAINLINE TYPICALS. EDGELINES SHALL NOT BE CONTINUOUS AROUND THE MAINLINE/SIDE ROAD RADIUS. EDGELINES SHALL END AT STOP BARS.

3.) CENTERLINE AND EDGELINE SHALL BE CONTINUOUS PAST RESIDENTIAL DRIVEWAYS. CENTERLINE AND EDGELINE SHALL BREAK FOR COMMERCIAL DRIVES W/TRAFFIC CONTROLS, MINOR SIDE ROADS, OR PRIVATE INTERSECTIONS.

4.) LOCATION OF THE STOP LINE MAY VARY DUE TO INTERSECTION SIGHT DISTANCE AND VEHICLE TURNING RADIUS AND MAY NOT ALWAYS COINCIDE WITH THE LOCATION OF THE STOP SIGN.

5.) IF THERE IS NO EDGELINE, END STOP BAR 12" FROM EDGE OF PAVEMENT.

6.) STOP BARS, WORDS, LANE LINES, SYMBOLS AND ARROWS SHALL BE THERMOPLASTIC (T).

NOTES:

1.) OWNER:
- A.) 1962 REAL ESTATE LLC 40 WAKEFIELD STREET ROCHESTER, NH 03868
- B.) JOHN & LINDA SVENSON P.O. BOX 10 BARRINGTON, NH 03825

2.)
- A.) TAX MAP 239, LOT 2
- B.) TAX MAP 235, LOT 1

3.) S.C.R.D.
- A.) BOOK 4288, PAGE 115
- B.) BOOK 993, PAGE 080

NOTES CONT.:

4.) THIS IS A COMMERCIAL DRIVEWAY.

5.) EXISTING CONDITIONS INFORMATION IS BASED ON A SURVEY PERFORMED BY BERRY SURVEYING & ENGINEERING AND IS ENCLOSED IN THIS PACKAGE.

6.) THIS PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH NHDOT STANDARD SPECIFICATIONS DATED 2010. CURRENT STANDARD PLANS, SUPPLEMENTAL SPECIFICATIONS AND SPECIAL PROVISIONS INCLUDED IN THE PROPOSAL.

7.) CONTRACTOR SHALL TAKE SPECIAL CARE IN NOT DISTURBING EXISTING MONUMENTS BOUNDS, AND OR BENCHMARKS WITHOUT FIRST MAKING PROVISIONS FOR RELOCATION.

8.) AREAS OUTSIDE THE LIMITS OF PROPOSED WORK DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED BY THE CONTRACTOR TO THEIR ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE.

NOTES CONT.:

9.) THE TERM "PROPOSED" (PROP.) MEANS WORK TO BE CONSTRUCTED USING NEW MATERIALS, OR, WHERE APPLICABLE, RE-USING EXISTING MATERIALS IDENTIFIED AS "REMOVE & RESET" (R & R).

10.) ALL EXISTING SIGNS WITHIN THE PROJECT LIMITS SHALL BE RETAINED UNLESS NOTED OTHERWISE.

11.) ALL SYMBOLS, WORDS, TRANSVERSE MARKINGS (STOP BARS, CROSSWALK LINES, AND RAILROAD SYMBOLS), LANE LINES, AND ALL OTHER MARKINGS NOTED WITH (T) SHALL BE THERMOPLASTIC.

12.) ALL DISTURBED AREAS NOT DESIGNATED TO BE PAVED SHALL HAVE LOAM PLACED AND SEEDED. THE LOAM SHALL HAVE A MINIMUM DEPTH OF 4 INCHES AND SHALL BE PLACED FLUSH WITH THE TOP OF THE ADJACENT CURB, EDGING, BERM OR PAVEMENT SURFACE.

13.) CONTACT BUREAU OF TRAFFIC TO REVIEW ALL PASSING ZONES PRIOR TO STRIPING OR INSTALLING W14-3 SIGNS IF APPLICABLE.

NOTES CONT.:

14.) THE CONTRACTOR SHALL CONTACT NHDOT BUREAU OF TRAFFIC AT (603) 271-2291 ONE WEEK PRIOR TO PAVEMENT MARKINGS.

15.) ALL PAVEMENT MARKINGS TO BE PAINTED TO NHDOT STANDARD NO. PM-9.

16.) SEE NHDOT STANDARD PLAN PM-10A FOR WORD AND SYMBOL DETAILS.

17.) THE SPEED LIMIT ON NH ROUTE 9 IS 30 MPH. 85TH PERCENTILE IS ASSUMED TO BE 35 MPH.

18.) WORK WITHIN NHDOT R.O.W. WILL REQUIRE PROFESSIONAL FLAGGING SERVICES AND POLICE SUPERVISION.

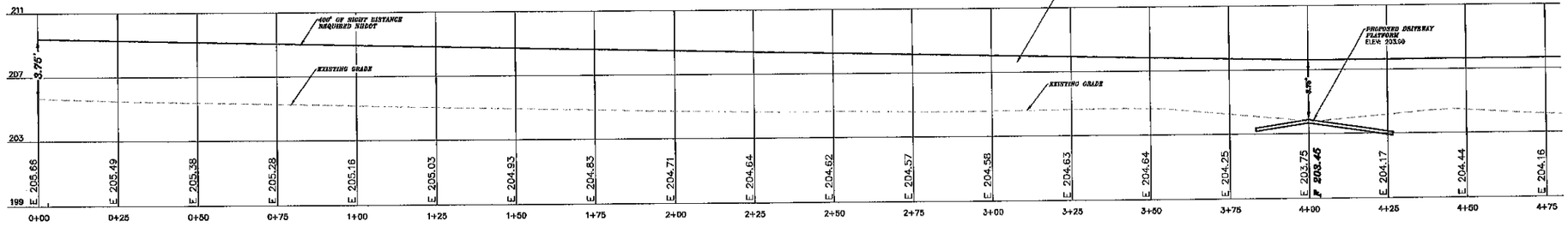
19.) DESIGN ENGINEER TO PROVIDE INSPECTION & OVERSIGHT OF ALL WORK WITHIN R.O.W.

PROFILE VIEW SIGHT LINE

GRAPHIC SCALE

20 0 10 20 40 60

(IN FEET)
1 inch = 20 ft.
VERTICAL SCALE: 1" = 4'



REVISION	DATE	DESCRIPTION

SIGHT DISTANCE PROFILE WESTBOUND
LAND OF
1962 REAL ESTATE LLC &
JOHN & LINDA SVENSON
FRANKLIN PIERCE HIGHWAY
BARRINGTON, NH 03825
TAX MAP 239 LOT 2 & MAP 235 LOT 1

BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (603)332-2863

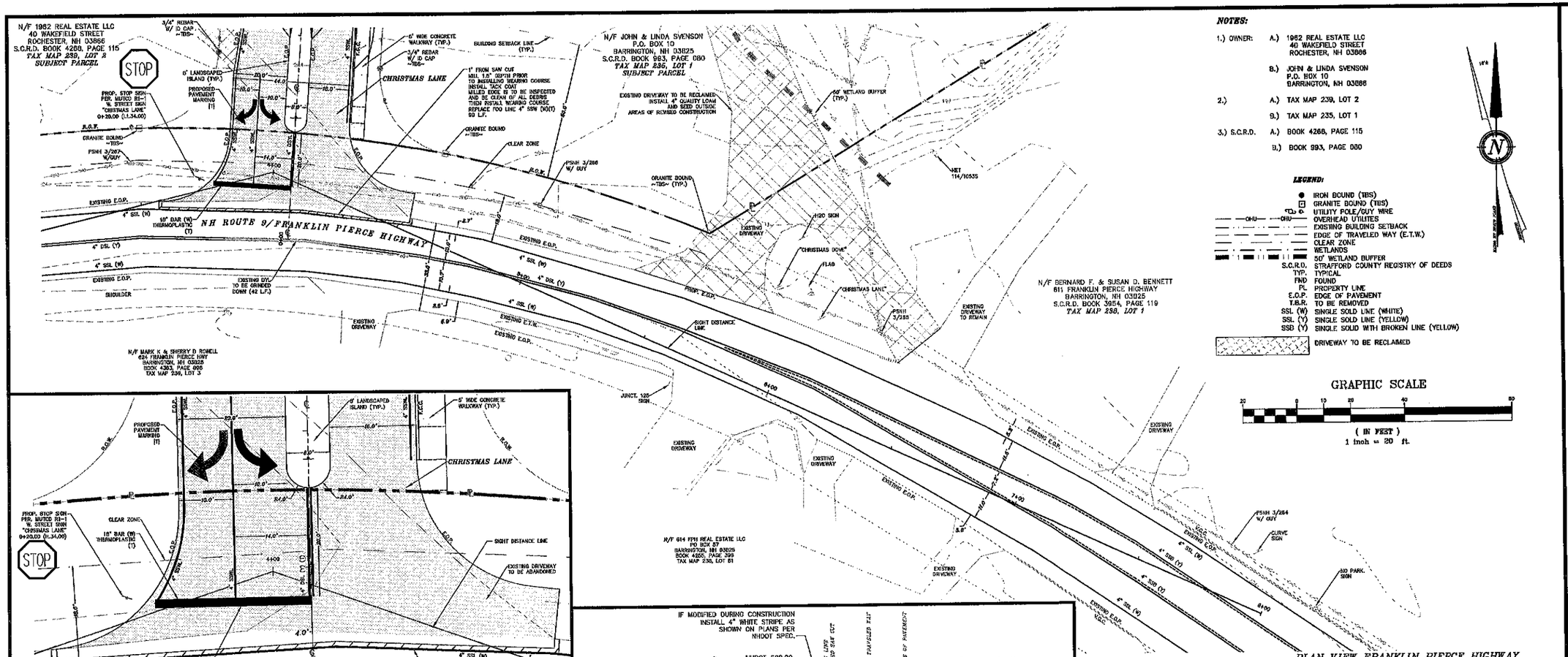
SCALE : 1 IN. EQUALS 20 FT.
DATE : AUGUST 13, 2018
FILE NO. : DB 2018 - 005

STATE OF NEW HAMPSHIRE
KENNETH A. BERRY
No. 10143
LICENSED PROFESSIONAL ENGINEER

SHEET 12 OF 19

LAND USE OFFICE
AUG 14 2018
RECEIVED

DOT-1



SIGHT DISTANCE PROFILE EASTBOUND
LAND OF
1962 REAL ESTATE LLC &
JOHN & LINDA SVENSON
FRANKLIN PIERCE HIGHWAY
BARRINGTON, NH 03825
TAX MAP 239 LOT 2 & MAP 236 LOT 1

REVISION	DATE	DESCRIPTION

BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (603)332-2863

SCALE : 1 IN. EQUALS 20 FT.
DATE : AUGUST 13, 2018
FILE NO. : DB 2018 – 005

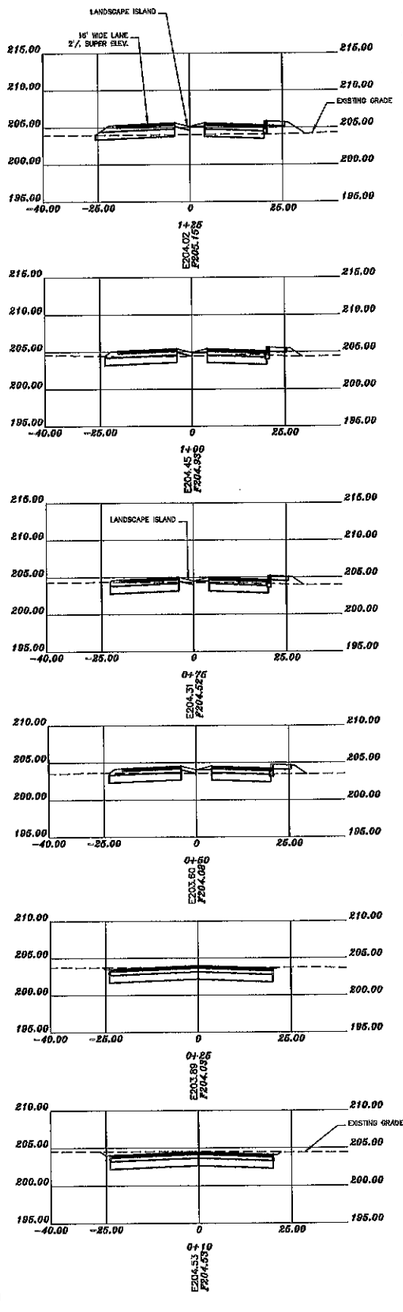
STATE OF NEW HAMPSHIRE - KENNETH A. BERRY No. 13295 LICENSED PROFESSIONAL ENGINEER

DOT-2

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.
Vertical Scale 10



REVISION	DATE	DESCRIPTION

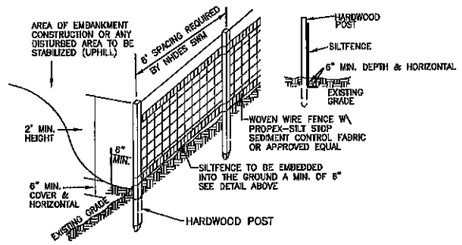
CROSS SECTIONS 0+00 – END
LAND OF
1962 REAL ESTATE LLC &
JOHN & LINDA SVENSON
FRANKLIN PIERCE HIGHWAY
BARRINGTON, NH 03825
TAX MAP 239 LOT 2 & MAP 235 LOT 1

BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (603)332-2863

SCALE : 1 IN. EQUALS 20 FT.
DATE : AUGUST 13, 2018
FILE NO. : DB 2018 – 005

STATE OF NEW HAMPSHIRE
KENNETH A. BERRY
No. 14746
LICENSED
PROFESSIONAL ENGINEER

E1



SILT FENCE CONSTRUCTION SPECIFICATIONS

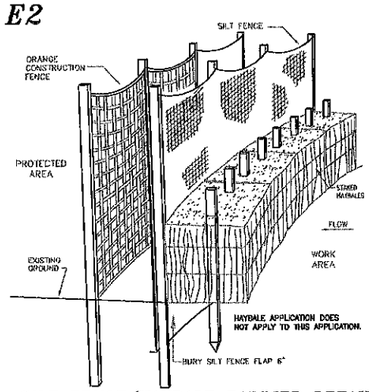
1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES AND FILTER CLOTH SHALL BE FASTENED TO WOVEN WIRE EVERY 24" AT TOP MID AND BOTTOM SECTIONS AND BE EMBEDDED INTO GROUND A MINIMUM OF 8" THE FENCE POSTS SHALL BE A MINIMUM 48" LONG, SPACED A MAXIMUM 10' APART, AND DRIVEN A MINIMUM OF 16" INTO THE GROUND.
2. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER, THE ENDS OF THE FABRIC SHALL BE OVERLAPPED BY SIX INCHES, FOLDED AND STAPLED TO PREVENT SEDIMENT FROM BY-PASSING.
3. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND SEDIMENT REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE AND PROPERLY DISPOSED OF. SEE MAINTENANCE NOTE BELOW, REMOVAL OF SEDIMENT REQUIRED AT A DEPTH OF 6-INCHES.
4. PLACE THE ENDS OF THE SILT FENCE UP CONTOUR TO PROVIDE FOR SEDIMENT STORAGE.
5. SILT FENCES SHALL BE REMOVED WHEN NO LONGER NEEDED AND THE SEDIMENT COLLECTED SHALL BE DISPOSED AS DIRECTED BY THE ENGINEER.
6. THE AREA DISTURBED BY THE REMOVAL SHALL BE SMOOTHED AND RE-VEGETATED.
7. TO BE CONSTRUCTED IAW NH SWM #3 4-2 SEDIMENT CONTROL PRACTICES, SILT FENCE, PAGE 90.

SILT FENCE MAINTENANCE

1. SILT FENCES SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REPAIRS THAT ARE REQUIRED SHALL BE MADE IMMEDIATELY.
2. IF THE FABRIC ON A SILT FENCE SHOULD DECOMPOSE OR BECOME INEFFECTIVE DURING THE EXPECTED LIFE OF THE FENCE, THE FABRIC SHALL BE REPLACED PROMPTLY.
3. SEDIMENT DEPOSITS SHOULD BE REMOVED WHEN THEY REACH SIX-INCHES IN DEPTH.
4. SEDIMENT DEPOSITS THAT ARE REMOVED OR LEFT IN PLACE AFTER THE FABRIC HAS BEEN REMOVED SHALL BE GRADED TO CONFORM WITH THE EXISTING TOPOGRAPHY AND VEGETATED.

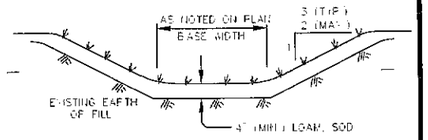
SILT FENCE DETAIL
NOT TO SCALE

E2



SILT FENCE/HAYBALE BARRIER DETAIL
THIS METHOD TO BE USED ALONG THE REAR OF THE PROPERTY
NOT TO SCALE

E3



GRASS SWALE
NOT TO SCALE

INSPECT ANNUALLY FOR EROSION, SEDIMENT ACCUMULATIONS, VEGETATION LOSS, & INVASIVE SPECIES. REPAIR AS NECESSARY.

MOW GRASS ANNUALLY TO A DEPTH OF 4".

INSTALL STABILIZATION MATTING DURING CONSTRUCATION

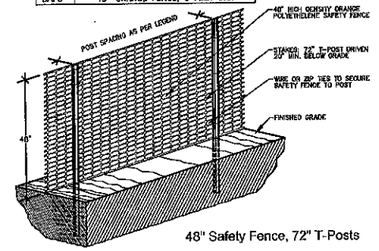
TO BE CONSTRUCTED IAW NH SWM #2 CHAPTER 4, #5 TREATMENT SWALES, PAGE 123.

E4

CONSTRUCTION SAFETY FENCE
NOT TO SCALE

LEGEND

SAF12	48" ORANGE FENCE, 12 FEET O.C.
SAF11	48" ORANGE FENCE, 11 FEET O.C.
SAF10	48" ORANGE FENCE, 10 FEET O.C.
SAF9	48" ORANGE FENCE, 9 FEET O.C.
SAF8	48" ORANGE FENCE, 8 FEET O.C.
SAF7	48" ORANGE FENCE, 7 FEET O.C.
SAF6	48" ORANGE FENCE, 6 FEET O.C.

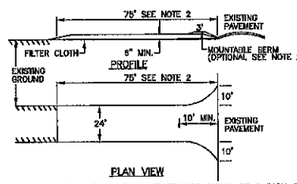


48" Safety Fence, 72" T-Posts

1. ALL SENSITIVE AREAS SHALL BE PROTECTED AS PER PLAN.
2. ALL TREES IN THE CONSTRUCTION AREA NOT SPECIFICALLY DESIGNATED FOR REMOVAL SHALL BE PRESERVED AND PROTECTED WITH HIGH VISIBILITY FENCE AS PER PLAN.
3. WHEN PRACTICABLE, INSTALL HIGH VISIBILITY 3 FEET OUTSIDE OF THE DRIP LINE OF THE TREE.
4. SAFETY FENCE SHOULD BE FASTENED SECURELY TO THE T-POSTS.
5. THE FENCING MUST REMAIN IN PLACE DURING ALL PHASES OF CONSTRUCTION; ANY CHANGE OF THE PROTECTIVE FENCING MUST BE APPROVED.

E5

STABILIZED CONSTRUCTION ENTRANCE
NOT TO SCALE

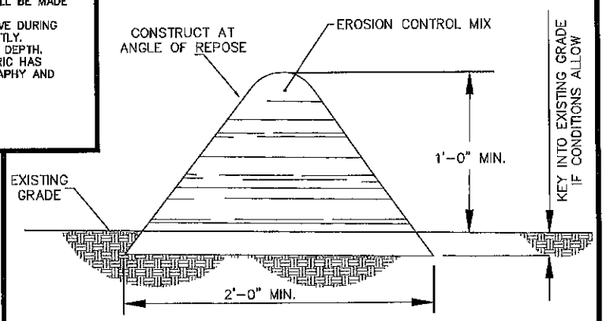


PLAN VIEW

1. STONE FOR A STABILIZED CONSTRUCTION ENTRANCE SHALL BE 3 INCH STONE, RECLAIMED STONE, OR RECYCLED CONCRETE EQUIVALENT.
2. THE LENGTH OF THE STABILIZED ENTRANCE SHALL NOT BE LESS THAN 75 FEET, EXCEPT THAT THE MINIMUM LENGTH MAY BE REDUCED TO 50 FEET IF A 3-INCH TO 6-INCH BERM IS INSTALLED AT THE ENTRANCE OF THE PROJECT SITE.
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, WHICH EVER IS GREATER.
5. GEOTEXTILE FILTER CLOTH SHALL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING
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 CLEAN OUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, WASHED, OR TRACKED ONTO PUBLIC RIGHT-OF-WAY MUST BE REMOVED PROMPTLY.
8. TO BE CONSTRUCTED IAW NH SWM #3 4-2 SEDIMENT CONTROL PRACTICES, TEMPORARY CONSTRUCTION EXIT, PAGE 124.

E6

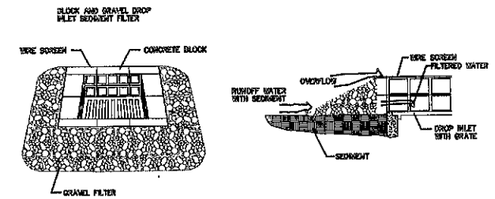
EROSION CONTROL MIX BERM
NOT TO SCALE



EROSION CONTROL MIX BERMS SHALL BE USED ONLY AS FOLLOWS:

1. BERMS SHALL BE USED IN AREAS WHERE EROSION WILL OCCUR ONLY IN THE FORM OF SHEET EROSION AND THERE IS NO CONCENTRATION OF WATER IN A CHANNEL OR DRAINAGE WAY ABOVE THE BERM.
2. THE BERMS SHALL BE INSTALLED FOLLOWING THE CONTOUR OF THE LAND AS CLOSLY AS POSSIBLE.
3. THE BERMS SHALL BE INSTALLED ON SLOPES LESS THAN 5%.
4. SUBJECT TO (E), BELOW, THE MIX SHALL HAVE AN ORGANIC PORTION BETWEEN 80 AND 100%, DRY WEIGHT BASIS, AND BE FIBROUS AND ELONGATED SUCH AS FROM SHREDDED BARK, STUMP GRINDINGS, COMPOSED BARK, OR EQUIVALENT MANUFACTURED PRODUCTS.
5. WOOD AND BARK CHIPS, GROUND CONSTRUCTION DEBRIS, OR REPROCESSED WOOD PRODUCTS SHALL NOT BE USED AS ORGANIC MATERIAL.
6. THE MIX SHALL NOT CONTAIN SILTS, CLAY, OR FINE SANDS.
7. THE MIX SHALL HAVE A PARTICLE SIZE BY WEIGHT OF 70 TO 85% PASSING A 6-INCH SCREEN AND A MAXIMUM OF 85% PASSING THE 0.75-INCH SCREEN.
8. THE MIX PH SHALL BE BETWEEN 5.0 AND 8.0.
9. THE BERM SHALL BE AT LEAST 12 INCHES HIGH AND AT LEAST 2 FEET WIDE.
10. TO BE CONSTRUCTED IAW NH SWM #3 4-2 SEDIMENT CONTROL PRACTICES, EROSION CONTROL MIX BERMS, PAGE 108.

E7



MAINTENANCE

ALL STRUCTURES SHOULD BE INSPECTED AFTER EVERY RAIN STORM AND REPAIRS MADE AS NECESSARY. SEDIMENT SHOULD BE REMOVED FROM TRAPPING DEVICES AFTER THE SEDIMENT HAS REACHED A MAXIMUM OF ONE HALF THE DEPTH OF THE TRAP. THE SEDIMENT SHOULD BE DISPOSED OF IN A SUITABLE AREA AND PROTECTED FROM EROSION BY EITHER STRUCTURE OR VEGETATIVE MEANS. THE TEMPORARY TRAPS SHOULD BE REMOVED AND THE AREA REPAIRED AS SOON AS THE CONTRIBUTING DRAINAGE AREA TO THE INLET HAS BEEN COMPLETELY STABILIZED.

BLOCK & GRAVEL DROP INLET SEDIMENT FILTER
NOT TO SCALE

TO BE USED IN ALL AREAS WHERE THERE WILL BE NO TRAFFIC.

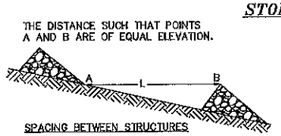
TO BE CONSTRUCTED IAW NH SWM #3 4-2 SEDIMENT CONTROL PRACTICES, TEMPORARY STORM DRAIN INLET PROTECTION, PAGE 118.

E8 TEMPORARY EROSION CONTROL MEASURES

1. THE SMALLEST PRACTICAL AREA OF LAND SHALL BE EXPOSED AT ANY ONE TIME.
2. EROSION, SEDIMENT AND DETENTION MEASURES SHALL BE INSTALLED AS SHOWN ON THE PLANS AND AT LOCATIONS AS REQUIRED, DIRECTED BY THE ENGINEER.
3. ALL DISTURBED AREAS SHALL BE RETURNED TO ORIGINAL GRADES AND ELEVATIONS. DISTURBED AREAS SHALL BE LOAMED WITH A MINIMUM OF 4" OF LOAM AND SEEDED WITH NOT LESS THAN ONE POUND OF SEED PER 50 SQUARE YARDS OF AREA. (SEE SEED SPECIFICATIONS THIS SHEET)
4. ALL DISTURBED AREAS WILL BE RESTABILIZED WITHIN 45 DAYS. AT ANY ONE TIME, NO MORE THAN 5 ACRES, (217,800 Sq. Ft.) WILL BE DISTURBED.
5. SILT FENCES AND PERIMETER BARRIERS SHALL BE INSPECTED PERIODICALLY AND AFTER EVERY RAIN DURING THE LIFE OF THE PROJECT. ALL DAMAGED AREAS SHALL BE REPAIRED, SEDIMENT DEPOSITS SHALL PERIODICALLY BE REMOVED AND DISPOSED OF.
6. AFTER ALL DISTURBED AREAS HAVE BEEN STABILIZED, THE TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE REMOVED AND THE AREA DISTURBED BY THE REMOVAL SMOOTHED AND RE-VEGETATED.
7. PER THE EPA CGP REQUIREMENTS THERE WILL BE REPORTS OF THE EROSION CONTROL INSPECTIONS IAW SWPPP PREPARED BY BSRE. ALL EROSION CONTROLS SHALL BE INSPECTED WEEKLY AND WITHIN 24 HOURS AFTER 0.5" OR GREATER RAIN EVENT.
8. DITCHES, SWALES, AND BASINS SHALL BE STABILIZED PRIOR TO DIRECTING RUNOFF TO THEM.
9. DO NOT TRAFFIC EXPOSED SOIL SURFACES WITH CONSTRUCTION EQUIPMENT. IF FEASIBLE, PERFORM EXCAVATIONS WITH EQUIPMENT POSITIONED OUTSIDE THE LIMITS OF THE INFILTRATION SYSTEM.
10. DRIVEWAYS AND CUT AND FILL SLOPES MUST BE STABILIZED WITHIN 72 HOURS OF ACHIEVING FINAL GRADE.
11. STABILIZATION MEANS:
    - 11.1 BASE COURSE GRAVELS HAVE BEEN INSTALLED IN AREAS TO BE PAVED.
    - 11.2 A MINIMUM OF 85 PERCENT VEGETATED GROWTH HAS BEEN ESTABLISHED..
    - 11.3 A MINIMUM OF 3 INCHES OF NON-EROSIVE MATERIAL SUCH AS STONE OR RIP-RAP HAS BEEN INSTALLED.
    - 11.4 OR, EROSION CONTROL BLANKETS HAVE BEEN PROPERLY INSTALLED.
12. THIS PROJECT IS TO BE MANAGED IN A MANNER THAT MEETS THE REQUIREMENTS AND INTENT OF RSA 430:53 AND CHAPTER AGR 3800 RELATIVE TO INVASIVE SPECIES.
13. THE NHDES STORMWATER MANUAL, IN THREE VOLUMES, DATED DECEMBER 2008, IS A PART OF THIS PLAN SET AND THE MORE RESTRICTIVE WILL GOVERN. (NH SWM)

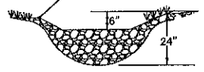
E9

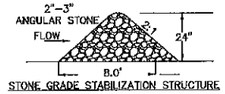
STONE CHECK DAM
NOT TO SCALE



1.) CHECK DAMS SHOULD BE INSTALLED BEFORE RUNOFF IS DIRECTED TO THE SWALE OR DRAINAGE DITCH.
2.) THE MAXIMUM CONTRIBUTING DRAINAGE AREA TO THE DAM SHOULD BE LESS THEN ONE ACRE.
3.) THE MAXIMUM HEIGHT OF THE DAM SHOULD BE TWO FEET.
4.) THE CENTER OF THE DAM SHOULD BE AT LEAST SIX INCHES LOWER THAN THE OUTER EDGES.
5.) THE MAXIMUM SPACING IS AS SHOWN ON THE PROJECT SITE PLANS.
6.) CHECK DAMS WILL NOT BE USED IN A FLOWING STREAM.
7.) TEMPORARY CHECK DAMS WILL BE REMOVED ONCE THE SWALE OR DITCH IS DETERMINED STABLE.
8.) TO BE CONSTRUCTED IAW NH SWM #3 4-2 SEDIMENT CONTROL PRACTICES, TEMPORARY CHECK DAMS, PAGE 114.

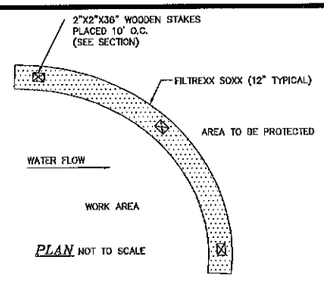
NOTE: KEY STONE INTO CHANNEL BANKS AND EXTEND IT BEYOND THE ABUTMENTS A MINIMUM OF 18" TO PREVENT FLOW AROUND THE DAM.





STONE GRADE STABILIZATION STRUCTURE

E10

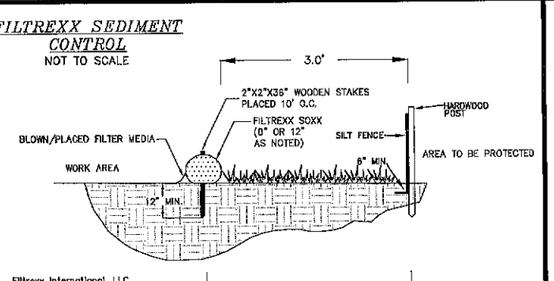


PLAN NOT TO SCALE

NOTES:

1. ALL MATERIAL TO MEET FILTREXX SPECIFICATIONS.
2. FILTER MEDIA FILL TO MEET APPLICATION REQUIREMENTS.
3. COMPOST MATERIAL TO BE DISPERSED ON SITE, AS DETERMINED BY ENGINEER.
4. SILTSOXX MAY BE USED IN PLACE OF SILT FENCE OR OTHER SEDIMENT BARRIERS.
5. SILTSOXX COMPOST/SOIL/ROCK/SEED FILL MATERIAL SHALL BE ADJUSTED AS NECESSARY TO MEET THE REQUIREMENTS OF THE SPECIFIC APPLICATION.
6. FILTREXX SOXX IS A REGISTERED TRADEMARK OF FILTREXXIN TERNATIONAL, LLC.
7. SILT FENCE IS NOT A SUBSTITUTION FOR SILT SOXX AND ANY EQUAL SUBSTITUTION TO BE APPROVED.
8. TO BE CONSTRUCTED IAW FILTREXX, SECTION 1:EROSION & SEDIMENT CONTROL (PAGE 323) - CONSTRUCTION ACTIVITIES, SWPPP CUT SHEET: FILTREXX SEDIMENT CONTROL

FILTREXX SEDIMENT CONTROL
NOT TO SCALE

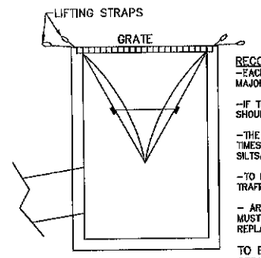


Filtrexx International, LLC
35481 Grafton Eastern Rd | Grafton, Oh 44044
440-926-2607 | fax: 440-926-4021
www.FILTREXX.COM
OR APPROVED EQUAL

NOTE: FOR AREAS REQUIRING DOUBLE PERIMETER CONTROL WITHIN 50' OF JURISDICTIONAL WETLANDS AND NOT FOR ALL SILT SOXX APPLICATIONS. THIS DUPLICATION MAY BE SPECIFIED AS 12" SILT SOXX OR ORANGE CONSTRUCTION FENCE AS NOTED.

SECTION NOT TO SCALE

E11



RECOMMENDED MAINTENANCE SCHEDULE

-EACH SILTSACK SHOULD BE INSPECTED AFTER EVERY MAJOR RAIN EVENT, AND MUST BE MAINTAINED.

-IF THERE HAVE BEEN NO MAJOR EVENTS, SILTSACK SHOULD BE INSPECTED EVERY 2-3 WEEKS.

-THE RESTRAINT CORD SHOULD BE VISIBLE AT ALL TIMES. IF CORD IS COVERED WITH SEDIMENT, THE SILTSACK SHOULD BE EMPTIED.

-TO BE USED IN ALL AREAS WHERE THERE WILL BE TRAFFIC.

- ARE SUBJECT TO DAMAGE BY SNOW PLOWS, AND MUST BE INSPECTED AFTER ANY SNOW EVENT AND REPLACED AS REQUIRED.

TO BE CONSTRUCTED IAW NH SWM #3 4-2 SEDIMENT CONTROL PRACTICES, TEMPORARY STORM DRAIN INLET PROTECTION, PAGE 118.

SILTSACK DETAIL
NOT TO SCALE

E-101

REVISION	DATE	DESCRIPTION

EROSION & SEDIMENT CONTROL DETAILS
LAND OF
1962 REAL ESTATE LLC &
JOHN & LINDA SVENSON
FRANKLIN PIERCE HIGHWAY
BARRINGTON, NH 03825
TAX MAP 239 LOT 2 & MAP 236 LOT 1

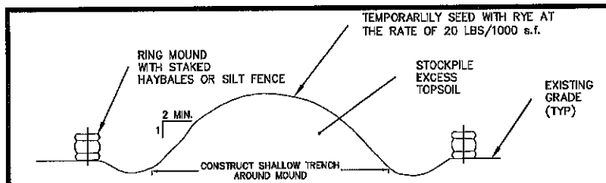
BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (603)332-2863

AS NOTED
DATE : AUGUST 13, 2018
FILE NO. : DB 2018 - 005

STATE OF NEW HAMPSHIRE
KENNETH A. BERRY
No. 15481
LICENSED PROFESSIONAL ENGINEER

SHEET 15 OF 19

E12



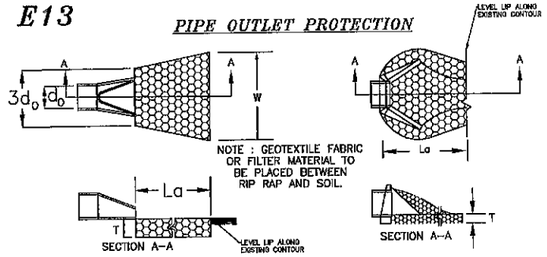
TOPSOIL STOCKPILE MOUND

NOT TO SCALE

TO BE CONSTRUCTED IAW NH SWM #3 4-1 EROSION CONTROL PRACTICES, SOIL STOCKPILE PRACTICES, PAGE 46.

E13

PIPE OUTLET PROTECTION



PIPE OUTLET TO FLAT AREA WITH NO DEFINED CHANNEL

PIPE OUTLET TO WELL-DEFINED CHANNEL

PIPE OUTLET PROTECTION CONSTRUCTION SPECIFICATIONS

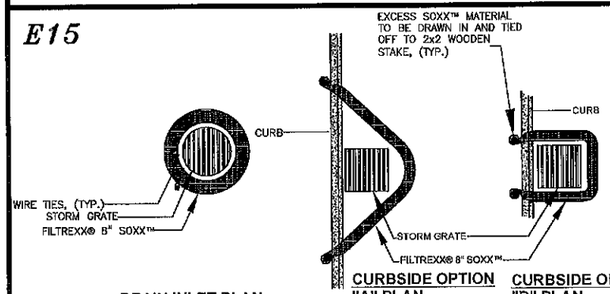
1. THE SUB GRADE FOR THE FILTER MATERIAL, GEOTEXTILE FABRIC, AND RIP RAP SHALL BE PREPARED TO THE LINES AND GRADES SHOWN ON THE PLANS. SPECIFIED GRADATION.
2. THE ROCK OR GRAVEL USED FOR FILTER OF RIP RAP SHALL CONFORM TO NHDOT SECTION 583.
3. GEOTEXTILE FABRICS SHALL BE PROTECTED FROM PUNCTURE OR TEARING DURING THE PLACEMENT OF THE ROCK RIP RAP DAMAGED AREAS IN THE FABRIC SHALL BE REPAIRED BY PLACING A PIECE OF FABRIC OVER THE DAMAGED AREA OR BY COMPLETE REPLACEMENT OF THE FABRIC. ALL OVERLAPS REQUIRED FOR REPAIRS OR JOINING TWO PIECES OF FABRIC SHALL BE A MINIMUM OF 12 INCHES.
4. STONE FOR THE RIP RAP MAY BE PLACED BY EQUIPMENT AND SHALL BE CONSTRUCTED TO THE FULL LAYER THICKNESS IN ONE OPERATION AND IN SUCH A MANNER AS TO PREVENT SEGREGATION OF THE STONE SIZES.
5. TO BE CONSTRUCTED IAW NH SWM #2 4-6 CONVEYANCE PRACTICES, 6. OUTLET PROTECTION, PAGE 172.

E14

TABLE 7-24--RECOMMENDED RIP RAP GRADATION RANGES

d50 SIZE= 0.5 FEET 6 INCHES		
% OF WEIGHT SMALLER THAN THE GIVEN d50 SIZE	SIZE OF STONE (INCHES) FROM	TO
100%	9	12
85%	8	11
50%	6	9
15%	2	3

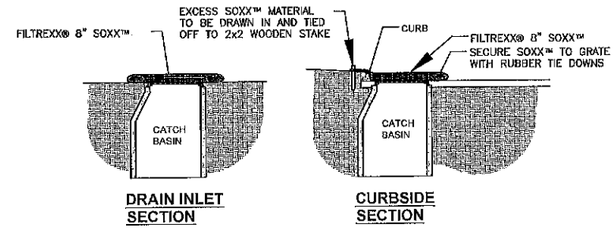
E15



DRAIN INLET PLAN

CURBSIDE OPTION "A" PLAN

CURBSIDE OPTION "B" PLAN



DRAIN INLET SECTION

CURBSIDE SECTION

NOTES:
1. ALL MATERIAL TO MEET FILTREXX® SPECIFICATIONS.
2. FILTER MEDIA™ FILL TO MEET APPLICATION REQUIREMENTS.
3. COMPOST MATERIAL TO BE DISPERSED ON SITE, AS DETERMINED BY ENGINEER.

FILTREXX INLET PROTECTION

NOT TO SCALE

E16

NOTE: THIS PROJECT IS TO BE MANAGED IN A MANNER THAT MEETS THE REQUIREMENTS AND INTENT OF RSA 430:53 AND CHAPTER AGR 3800 RELATIVE TO INVASIVE SPECIES.

NOTE: Temporary seed mix for stabilization of turf shall be winter rye or oats at a rate of 2.5 lbs. per 1000 s.f. and shall be placed prior to OCT. 15, if permanent seeding not yet complete.

SEEDING GUIDE

USE	SEEDING MIXTURE 1/	DROUGHTY	WELL DRAINED	MODERATELY WELL DRAINED	POORLY DRAINED
STEEP CUTS AND FILLS, BORROW AND DISPOSAL AREAS	A	FAIR	GOOD	GOOD	FAIR
	B	POOR	GOOD	EXCELLENT	GOOD
	C	FAIR	GOOD	EXCELLENT	EXCELLENT
	D	FAIR	EXCELLENT	EXCELLENT	POOR
WATERWAYS, EMERGENCY SPILLWAYS, AND OTHER CHANNELS WITH FLOWING WATER.	A	GOOD	GOOD	GOOD	FAIR
	B	GOOD	GOOD	EXCELLENT	FAIR
	C	GOOD	GOOD	EXCELLENT	FAIR
	D	GOOD	GOOD	EXCELLENT	FAIR
LIGHTLY USED PARKING LOTS, ODD AREAS, UNUSED LAWNS, AND LOW INTENSITY USE RECREATION SITES.	A	GOOD	GOOD	GOOD	FAIR
	B	GOOD	GOOD	GOOD	POOR
	C	FAIR	GOOD	EXCELLENT	FAIR
	D	FAIR	GOOD	GOOD	FAIR
PLAY AREAS AND ATHLETIC FIELDS. (TOPSOIL IS ESSENTIAL FOR GOOD TURF.)	E	FAIR	EXCELLENT	EXCELLENT	2/
	G	FAIR	EXCELLENT	EXCELLENT	2/

GRAVEL PIT, SEE NH-EM-24 IN APPENDIX FOR RECOMMENDATION REGARDING RECLAMATION OF SAND AND GRAVEL PITS.

1/ REFER TO SEEDING MIXTURES AND RATES IN TABLE 7-26

2/ POORLY DRAINED SOILS ARE NOT DESIRABLE FOR USE AS PLAYING AREA AND ATHLETIC FIELDS.

CONSERVATION MIXTURES RECOMMENDED

SEEDING RATES

MIXTURE	POUNDS PER ACRE	POUNDS PER 1,000 Sq. Ft.
A. TALL FESCUE	20	0.45
CREEPING RED FESCUE	20	0.45
RED TOP	2	0.05
TOTAL	42	0.95
B. TALL FESCUE	15	0.35
CREEPING RED FESCUE	15	0.35
CROWN VETCH OR FLAT PEA	15	0.35
TOTAL	30	0.70
	40 OR 55	0.90 OR 1.25
C. TALL FESCUE	24	0.55
CREEPING RED FESCUE	24	0.55
BIRDS FOOT TREFOIL	REMOVED	REMOVED
TOTAL	48	1.10
D. TALL FESCUE	20	0.45
FLAT PEA	20	0.70
TOTAL	40	1.15
E. CREEPING RED FESCUE W/ KENTUCKY BLUEGRASS 2/	20	1.15
TOTAL	100	2.35
F. TALL FESCUE 1	150	3.50

CONSERVATION MIX	POUNDS PER ACRE	POUNDS PER 1,000 S.F.
RED FESCUE (35%)	75	1.75
TALL FESCUE (25%)	55	1.25
ANNUAL RYEGRASS (12%)	33	0.75
PERENNIAL RYEGRASS (10%)	26	0.60
KENTUCKY BLUEGRASS (10%)	22	0.50
WHITE CLOVER (3%)	7	0.15

SEEDING SPECIFICATIONS

1. GRADING AND SHAPING
   A. SLOPES SHALL NOT BE STEEPER THAN 2:1;3:1 SLOPES OR FLATTER ARE PREFERRED.
   WHERE MOWING WILL BE DONE, 3:1 SLOPES OR FLATTER ARE RECOMMENDED.
2. SEEDBED PREPARATION
   A. SURFACE AND SEEPAGE WATER SHOULD BE DRAINED OR DIVERTED FROM THE SITE TO PREVENT DROWNING OR WINTER KILLING OF THE PLANTS.
   B. STONES LARGER THAN 4 INCHES AND TRASH SHOULD BE REMOVED BECAUSE THEY INTERFERE WITH SEEDING AND FUTURE MAINTENANCE OF THE AREA. WHERE FEASIBLE, THE SOIL SHOULD BE TILLED TO A DEPTH OF ABOUT 4 INCHES TO PREPARE A SEED BED AND MIX FERTILIZER AND LIME INTO THE SOIL. THE SEEDBED SHOULD BE LEFT IN REASONABLY FIRM AND SMOOTH CONDITION. THE LAST TILLAGE OPERATION SHOULD BE PERFORMED ACROSS THE SLOPE WHEREVER PRACTICAL.
3. 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 AN 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 100LBS. PER 1,000 SQ.FT.
   NITROGEN(N), 50LBS. PER ACRE OR 1.1LBS. PER 1,000 SQ.FT.
   PHOSPHATE(P2O5), 100LBS. PER ACRE OR 2.2LBS. PER 1,000 SQ.FT.
   POTASH(K2O), 100LBS. PER ACRE OR 2.2LBS. PER 1,000 SQ.FT.
   (NOTE: THIS IS THE EQUIVALENT OF 500LBS. PER ACRE OF 10-20-20 FERTILIZER OR 1,000LBS. 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 .25 INCH OF SOIL OR LESS, BY CULTIPACKING OR RAKING.
   C. REFER TO TABLE(C-E1 THIS SHEET) FOR APPROPRIATE SEED MIXTURES AND TABLE(H-E1 THIS SHEET) FOR RATES OF SEEDING. ALL LEGUMES (CROWNVETCH, BIRDSFOOT TREFOIL, AND FLATPEA) MUST BE INOCULATED WITH THEIR SPECIFIC INOCULANT.
   D. WHEN SEEDED AREAS ARE MULCHED, PLANTINGS MAY BE MADE FROM EARLY SPRING TO EARLY OCTOBER. WHEN SEEDED AREAS ARE NOT MULCHED, PLANTINGS SHOULD BE MADE FROM EARLY SPRING TO MAY 20 OR FROM AUGUST 10 TO SEPTEMBER 1.
4. MULCH
   A. HAY, STRAW, OR OTHER MULCH, WHEN NEEDED, SHOULD BE APPLIED IMMEDIATELY AFTER SEEDING.
   B. MULCH WILL BE HELD IN PLACE USING APPROPRIATE TECHNIQUES FROM THE BEST MANAGEMENT PRACTICE FOR MULCHING. HAY OR STRAW MULCH SHALL BE PLACED AT A RATE OF 90LBS PER 1000 S.F.
5. MAINTENANCE TO ESTABLISH A STAND
   A. PLANTED AREA SHOULD BE PROTECTED FROM DAMAGE BY FIRE, GRAZING, TRAFFIC, AND DENSE WEED GROWTH.
   B. FERTILIZATION NEEDS SHOULD BE DETERMINED BY ONSITE INSPECTIONS. SUPPLEMENTAL FERTILIZER IS USUALLY THE KEY TO FULLY COMPLETE THE ESTABLISHMENT OF THE STAND BECAUSE MOST PERENNIAL STAKE 2 TO 3 YEARS TO BECOME ESTABLISHED.
   C. IN WATERWAYS, CHANNELS, OR SWALES WHERE UNIFORM FLOW CONDITIONS ARE ANTICIPATED, OCCASIONAL MOWING MAY BE NECESSARY TO CONTROL GROWTH OF WOODY VEGETATION.
6. TO BE CONSTRUCTED IAW NH SWM #3 4-1 EROSION CONTROL PRACTICES, PERMANENT VEGETATION, PAGE 60.

E17

WINTER STABILIZATION NOTES

1. ALL DISTURBED AREAS THAT DO NOT HAVE AT LEAST 85% VEGETATIVE COVERAGE PRIOR TO OCTOBER 15TH SHALL BE STABILIZED BY APPLYING MULCH AT A RATE OF 3-4 TONS PER ACRE. ALL SIDE SLOPES, STEEPER THAN 4:1, THAT ARE NOT DIRECTED TO SWALES OR DETENTION BASINS, SHALL BE LINED WITH BIODEGRADABLE/PHOTODEGRADABLE "JUTE MATTING" (EXCELSIOR'S CURLEX II OR EQUAL). ALL OTHER SLOPES SHALL BE MULCHED AND TACKED AT A RATE OF 3-4 TONS PER ACRE. THE APPLICATION OF MULCH AND/OR JUTE MATTING SHALL NOT OCCUR OVER EXISTING SNOW COVER. IF THE SITE IS ACTIVE AFTER NOVEMBER 15TH, ANY SNOW THAT ACCUMULATES ON DISTURBED AREAS SHALL BE REMOVED. PRIOR TO SPRING THAW ALL AREAS WILL BE STABILIZED, AS DIRECTED ABOVE.
2. ALL SWALES THAT DO NOT HAVE FULLY ESTABLISHED VEGETATION SHALL BE EITHER LINED WITH TEMPORARY JUTE MATTING OR TEMPORARY STONE CHECK DAMS (APPROPRIATELY SPACED). STONE CHECK DAMS WILL BE MAINTAINED THROUGHOUT THE WINTER MONTHS. IF THE SWALES ARE TO BE MATTED WITH PERMANENT LINERS OR RIPRAP WITH ENGINEERING FABRIC, THIS SHALL BE COMPLETED PRIOR TO WINTER SHUTDOWN OR AS SOON AS THEY ARE PROPERLY GRADED AND SHAPED.
3. PRIOR TO NOV. 15TH ALL ROADWAY AND PARKING AREAS SHALL BE BROUGHT UP TO AND THROUGH THE BANK RUN GRAVEL APPLICATION. IF THESE AREAS' ELEVATIONS ARE PROPOSED TO REMAIN BELOW THE PROPOSED SUBGRADE ELEVATION, THE SUBGRADE MATERIAL SHALL BE ROUGHLY CROWNED AND A 3" LAYER OF CRUSHED GRAVEL SHALL BE PLACED AND COMPACTED. THIS WILL ALLOW THE SUBGRADE TO SHED RUNOFF AND WILL REDUCE ROADWAY EROSION. THIS CRUSHED GRAVEL DOES NOT HAVE TO CONFORM TO NH DOT 304.3, BUT SHALL HAVE BETWEEN 15-25% PASSING THE #200 SIEVE AND THE LARGEST STONE SIZE SHALL BE 2". IF THE SITE IS ACTIVE AFTER NOVEMBER 15TH, ANY ACCUMULATED SNOW SHALL BE REMOVED FROM ALL ROADWAY AND PARKING AREAS.
4. AFTER OCTOBER 15TH, THE END OF NEW HAMPSHIRE'S AVERAGE GROWING SEASON, NO ADDITIONAL LOAM SHALL BE SPREAD ON SIDE SLOPES AND SWALES. THE STOCKPILES THAT WILL BE LEFT UNDISTURBED UNTIL SPRING SHALL BE SEEDED BY THIS DATE. AFTER OCTOBER 15TH, ANY NEW OR DISTURBED PILES SHALL BE MULCHED AT A RATE OF 3-4 TONS PER ACRE. ALL STOCKPILES THAT WILL REMAIN THROUGHOUT THE WINTER SHALL BE SURROUNDED WITH SILT FENCING.

E18 DEFINITION OF STABLE:

PER ENV-WQ 1500 ALTERATION OF TERRAIN

1. BASE COURSE GRAVELS HAVE BEEN INSTALLED IN AREAS TO BE PAVED.
2. A MINIMUM OF 85 PERCENT VEGETATED GROWTH HAS BEEN ESTABLISHED..
3. A MINIMUM OF 3 INCHES OF NON-EROSIVE MATERIAL SUCH AS STONE OR RIP-RAP HAS BEEN INSTALLED.
4. OR, EROSION CONTROL BLANKETS HAVE BEEN PROPERLY INSTALLED.

ADDITION STABLIZATION NOTES:

5. HAY MULCH OR OTHER APPROVED METHODS SHALL BE USED TO CONTROL EROSION OF NEWLY GRADED AREAS. ALL CUT AND FILL SLOPES SHALL BE SEEDED AND MULCHED WITHIN 72 HOURS AFTER THEIR CONSTRUCTION.
6. DISTURBED SOIL AREAS SHALL BE EITHER TEMPORARILY OR PERMANENTLY STABILIZED. IN AREAS WHERE FINAL GRADING HAS NOT OCCURRED, TEMPORARY STABILIZATION MEASURES SHOULD BE IN PLACE WITHIN SEVEN (7) CALENDAR DAYS FOR EXPOSED SOIL AREAS THAT ARE WITHIN ONE HUNDRED (100) FEET OF A SURFACE WATER BODY OR A WETLAND AND NO MORE THAN 14 CALENDAR DAYS FOR ALL OTHER AREAS. PERMANENT STABILIZATION SHOULD BE IN PLACE WITHIN THREE (3) CALENDAR DAYS FOLLOWING COMPLETION OF FINAL GRADING OF EXPOSED SOIL AREAS.

REVISION	DATE	DESCRIPTION

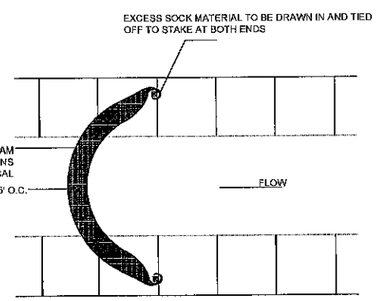
EROSION & SEDIMENT CONTROL DETAILS
LAND OF
1962 REAL ESTATE LLC &
JOHN & LINDA SVENSON
FRANKLIN PIERCE HIGHWAY
BARRINGTON, NH 03825
TAX MAP 239 LOT 2 & MAP 235 LOT 1

BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (603)332-2863

AS NOTED
DATE : AUGUST 13, 2018
FILE NO. : DB 2018 - 005

STATE OF NEW HAMPSHIRE
KENNETH A. BERRY
NO. 11243
LICENSED PROFESSIONAL ENGINEER

E19

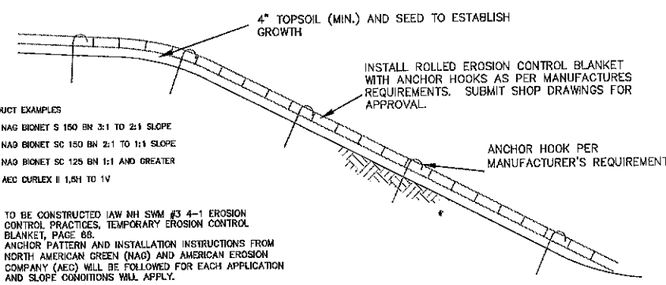


FILTREXX CHECK DAM

NOT TO SCALE

NOTES:
1. ALL MATERIAL TO MEET FILTREXX® SPECIFICATIONS.
2. CHECK DAM SHOULD BE USED IN AREAS THAT DRAIN 10 ACRES OR LESS.
3. SEDIMENT SHOULD BE REMOVED FROM BEHIND CHECK DAM ONCE THE ACCUMULATED HEIGHT HAS REACHED ½ THE HEIGHT OF THE CHECK DAM.
4. CHECK DAM CAN BE DIRECT SEEDED AT THE TIME OF INSTALLATION.
6. CONTRACTOR IS REQUIRED TO BE A FILTREXX CERTIFIED™ INSTALLER.

E20



PRODUCT EXAMPLES

1.) NAG BIONET S 150 BN 3:1 TO 2:1 SLOPE
2.) NAG BIONET SC 150 BN 2:1 TO 1:1 SLOPE
3.) NAG BIONET SC 125 BN 1:1 AND GREATER
4.) AEC CURLEX II 1.5H TO 1V

1. TO BE CONSTRUCTED IAW NH SWM #3 4-1 EROSION CONTROL PRACTICES, TEMPORARY EROSION CONTROL BLANKET, PAGE 68.
2. ANCHOR PATTERN AND INSTALLATION INSTRUCTIONS FROM NORTH AMERICAN GREEN (NAG) AND AMERICAN EROSION COMPANY (AEC) WILL BE FOLLOWED FOR EACH APPLICATION AND SLOPE CONDITIONS WILL APPLY.

ROLLED EROSION CONTROL BLANKET (RECB) SLOPE STABILIZATION DETAIL

NOT TO SCALE

E21 CONSTRUCTION SEQUENCE:

1.) CUT AND REMOVE TREES IN CONSTRUCTION AREA ONLY AS REQUIRED, RELOCATE ANY PROJECT T.B.M.

2.) CONSTRUCT AND/OR INSTALL TEMPORARY AND PERMANENT SEDIMENT EROSION AND DETENTION CONTROL FACILITIES AS SPECIFIED. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO ANY SOIL LAND DISTURBANCE AND MUST BE REVIEWED AND APPROVED BY THE COMMUNITY SERVICES DEPARTMENT.

3.) EROSION, SEDIMENT AND DETENTION CONTROL FACILITY SHALL BE INSTALLED & STABILIZED PRIOR TO DIRECTING RUNOFF TO THEM.TEMPORARY DIVERSIONS MAY BE REQUIRED. POST CONSTRUCTION STORM WATER MANAGEMENT PRACTICES MUST BE INITIATED AND STABILIZED EARLY IN THE PROCESS.

4.) CLEAR, CUT AND DISPOSE OF DEBRIS IN APPROVED FACILITY

5.) CONSTRUCT TEMPORARY CULVERTS AS REQUIRED, OR DIRECTED

6.) CONSTRUCT ROADWAYS FOR ACCESS TO DESIRED CONSTRUCTION AREAS. ALL ROADS SHALL BE STABILIZED IMMEDIATELY

7.) START BUILDING CONSTRUCTION

8.) INSTALL PIPE AND CONSTRUCTION ASSOCIATED APPURTENANCES AS REQUIRED OR DIRECTED. INSTALL RAIN GARDENS. ALL DISTURBED AREAS SHALL STABILIZED IMMEDIATELY AFTER GRADING.

9.) BEGIN PERMANENT AND TEMPORARY SEEDING AND MULCHING. ALL CUT AND FILL SLOPES AND DISTURBED AREAS SHALL BE SEEDED OR MULCHED AS REQUIRED, OR DIRECTED. NO AREA IS ALLOWED TO BE DISTURBED FOR A LENGTH OF TIME THAT EXCEEDS 30 DAYS BEFORE BEING STABILIZED. DAILY, OR AS REQUIRED. ALL ROADWAYS AND PARKING AREAS SHALL BE STABILIZED WITHIN 72 HOURS OF ACHIEVING FINISHED GRADES. ALL CUT AND FILL SLOPES SHALL BE STABILIZED WITHIN 72 HOURS OF ACHIEVING FINISHED GRADES.

10.) CONSTRUCT TEMPORARY BERMS, DRAINS DITCHES, SILT FENCES, SEDIMENT TRAPS, ETC. MULCH AND SEED AS REQUIRED.

11.) INSPECT AND MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES DURING CONSTRUCTION. ALL SWPPP INSPECTIONS MUST BE CONDUCTED BY A QUALIFIED PROFESSIONAL SUCH AS A PROFESSIONAL ENGINEER (PE), A CERTIFIED PROFESSIONAL IN EROSION AND SEDIMENT CONTROL (CPESC), A CERTIFIED EROSION SEDIMENT AND STORM WATER INSPECTOR (CESSWI), OR A CERTIFIED PROFESSIONAL IN STORM WATER QUALITY (CPSWQ). INSPECTION REPORTS SHALL BE SUBMITTED TO THE COMMUNITY SERVICES DEPARTMENT.

12.) COMPLETE PERMANENT SEEDING AND LANDSCAPING.

13.) REMOVE TEMPORARY EROSION CONTROL MEASURES AFTER SEEDING AREAS HAVE ESTABLISHED THEMSELVES AND SITE IMPROVEMENTS ARE COMPLETE.

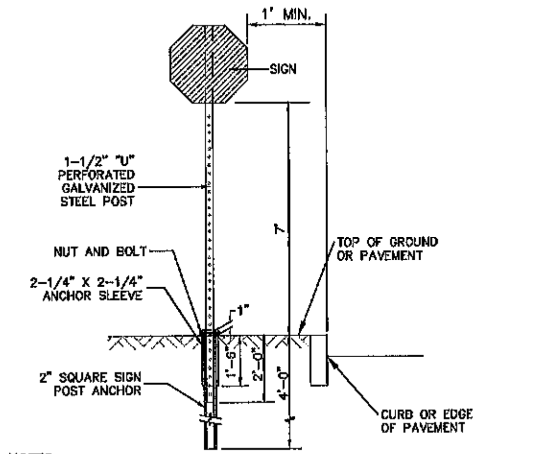
14.) SMOOTH AND REVEGETATE ALL DISTURBED AREAS.

15.) FINISH PAVING ALL ROADWAYS.

NOTE: TOWN OF BARRINGTON'S "STANDARD SPECIFICATIONS FOR CONSTRUCTION" ARE A PART OF THIS PLAN SET AND THE MORE RESTRICTIVE WILL GOVERN.

E-102

C1

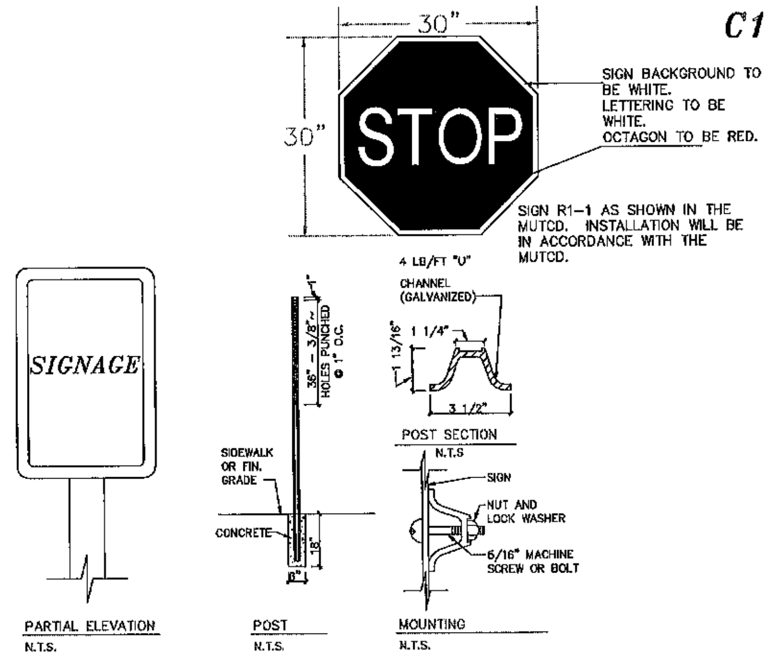


NOTES:

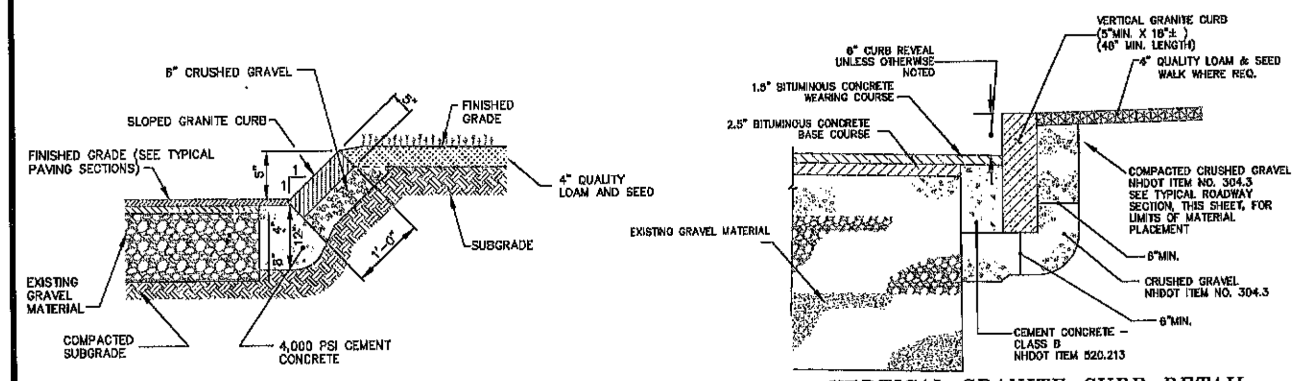
1. ALL SIGNAGE SHALL BE TO THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) STANDARDS AND NHDOT STANDARDS.
2. THE CONTRACTOR SHALL PROVIDE SHOP DRAWINGS/CATALOG CUTS TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO ERECTING SIGNS.
3. THE LOCATION OF THE SIGNS SHALL BE AS INDICATED ON THE DRAWINGS AND/OR AS DIRECTED BY THE TOWN OF BARRINGTON DEPARTMENT OF PUBLIC WORKS.

TYPICAL SIGN POST

(NOT TO SCALE)



C2



SLOPED GRANITE CURB DETAIL

NOT TO SCALE

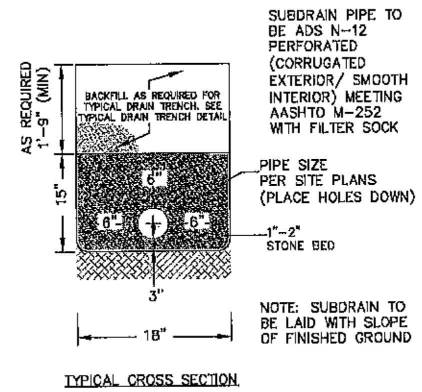
VERTICAL GRANITE CURB DETAIL

NOT TO SCALE

GENERAL NOTE:

1.) TO BE USED IN PLACE OF THE CONCRETE WALK AND INTEGRATED CURB AT THE OWNERS DISCRETION

C5



NOTES:

CROWN OF 6" SUBDRAIN PIPES TO MATCH CROWN OF DRAIN PIPES IN CATCH BASINS

SUBDRAIN TO BE INSTALLED AS INDICATED ON THE DRAWINGS AND AS DIRECTED BY THE ENGINEER.

SHORING AND STABILIZING OF TRENCH SIDEWALLS DURING EXCAVATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR ANY TRENCH EXCAVATION BEYOND THE LIMITS OF PAY EXCAVATION INDICATED.

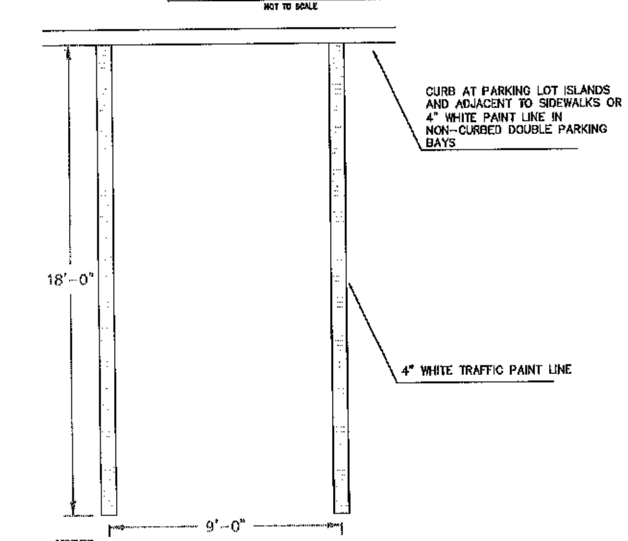
SUBDRAIN DETAIL TYPICAL

NOT TO SCALE

C6

PARKING SPACE DETAIL

NOT TO SCALE



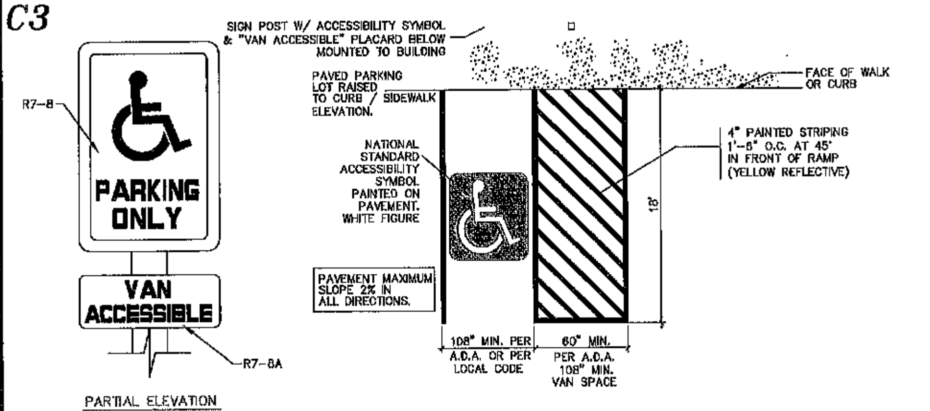
NOTES:

1.) PROVIDE TWO COATS OF PAINT ON ALL PARKING LINES.

2.) SEE PROPOSED SITE PLANS FOR LOCATION OF PARKING SPACES.

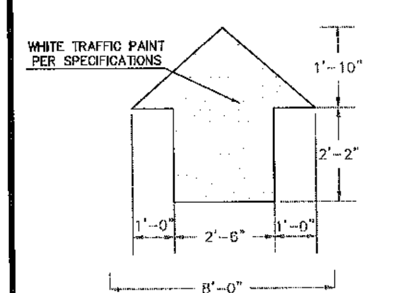
3.) PAINTED SPACES ONLY WHERE MARKED ON SITE PLAN

C3



PARKING STALL SIGNAGE FOR THE PHYSICALLY CHALLENGED

C4



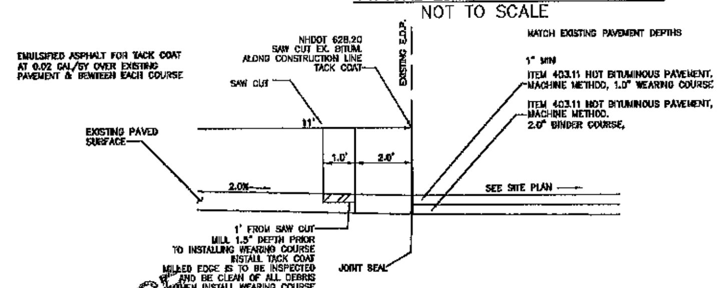
PAVEMENT MARKINGS DETAILS

NOT TO SCALE

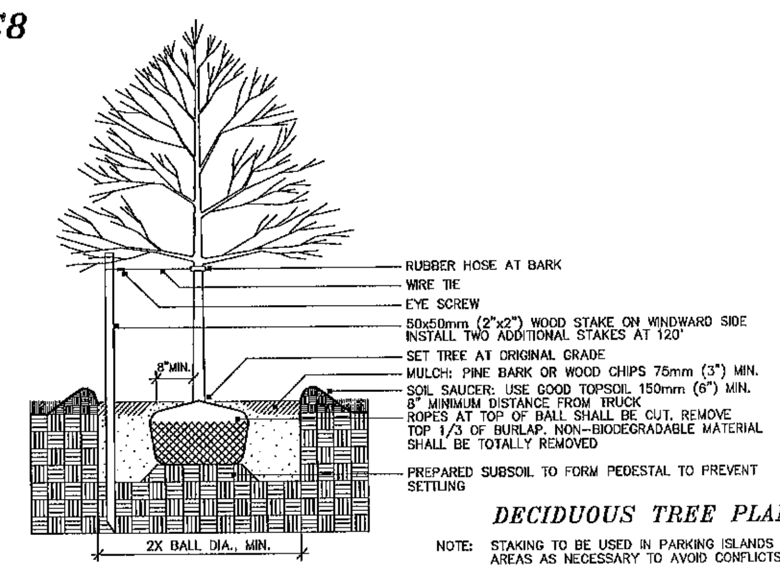
C7

TYPICAL EDGE LINE CONSTRUCTION

NOT TO SCALE



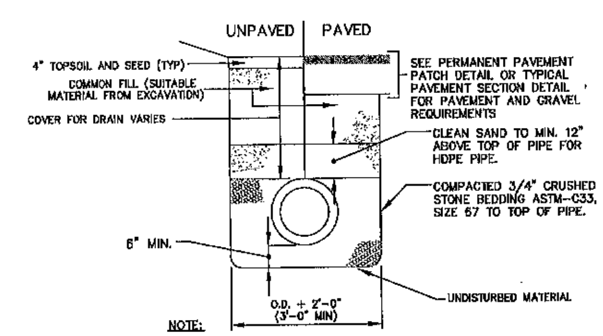
C8



DECIDUOUS TREE PLANTING

NOTE: STAKING TO BE USED IN PARKING ISLANDS AND OTHER CONFINED AREAS AS NECESSARY TO AVOID CONFLICTS WITH PEDESTRIANS

C9



NOTE:

PLASTIC DRAIN PIPE (HDPE) SHALL BE ADS N-12 (CORRUGATED EXTERIOR/SMOOTH INTERIOR) OR EQUAL MEETING AASHTO M-252 AND H-20 LOADING.

TYPICAL DRAIN PIPE TRENCH

NOT TO SCALE

REVISION	DATE	DESCRIPTION

CONSTRUCTION DETAILS
LAND OF
1962 REAL ESTATE LLC &
JOHN & LINDA SWENSON
FRANKLIN PIERCE HIGHWAY
BARRINGTON, NH 03825
TAX MAP 239 LOT 2 & MAP 235 LOT 1

BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 (603)332-2863

AS NOTED
DATE : AUGUST 13, 2018
FILE NO. : DB 2018 - 005

STATE OF NEW HAMPSHIRE
KENNETH A. BERRY
No. 14245
LICENSED
PROFESSIONAL ENGINEER

C-101

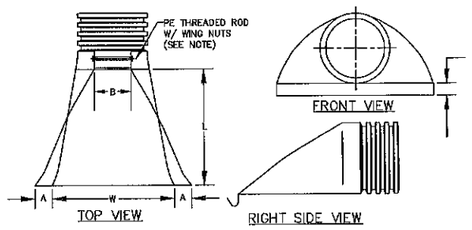
SHEET 17 OF 19

LAND USE OFFICE
AUG 14 2018
RECEIVED

C10

PART No.	PIPE SIZE	A	B(MAX)	H	L	W
1510-NP	15" 375 mm	6.5" 165 mm	10" 254 mm	6.5" 165 mm	25" 635 mm	29" 735 mm
1810-NP	18" 450 mm	7.5" 190 mm	15" 380 mm	6.5" 165 mm	32" 812 mm	35" 890 mm
2410-NP	24" 600 mm	7.5" 190 mm	18" 450 mm	6.5" 165 mm	36" 900 mm	45" 1140 mm
3010-NP	30" 750 mm	10.5" 266 mm	N/A	7.0" 178 mm	53" 1345 mm	68" 1725 mm
3610-NP	36" 900 mm	10.5" 266 mm	N/A	7.0" 178 mm	53" 1345 mm	68" 1725 mm

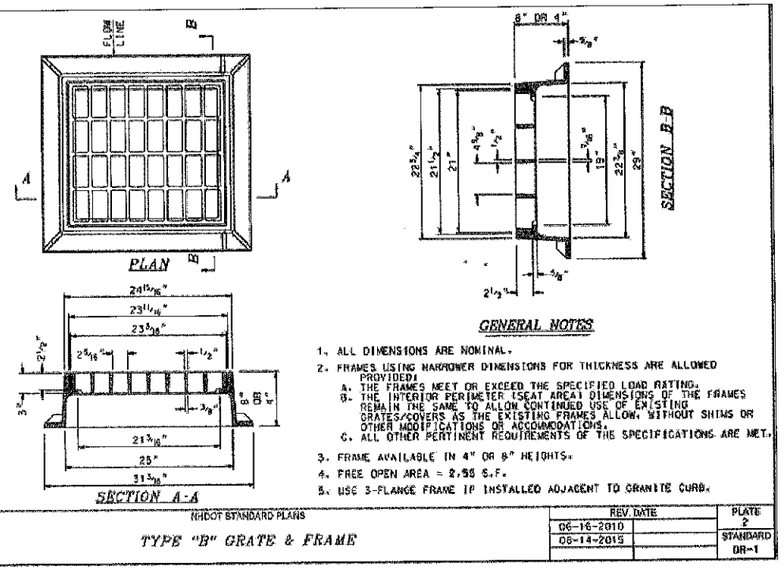
NOTE: PE THREADED ROD W/ WING NUTS PROVIDED FOR END SECTIONS 15"-24". 30" & 36" END SECTIONS TO BE WELDED PER MANUFACTURER'S RECOMMENDATIONS.



ADS N-12 FLARED END SECTIONS

NOT TO SCALE (ALL DIMENSIONS ARE NOMINAL)

C11

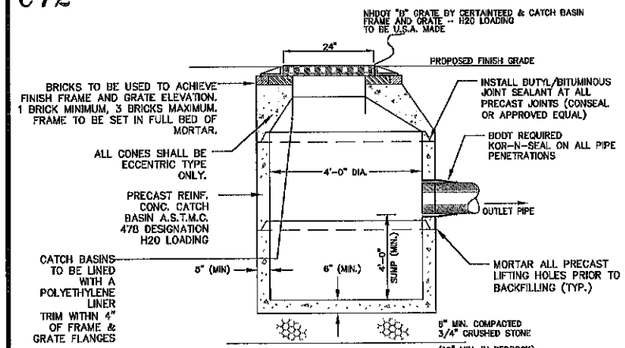


NHDOT STANDARD PLANS

TYPE "B" GRATE & FRAME

REV. DATE	PLATE
06-16-2010	2
08-14-2015	STANDARD
	DR-1

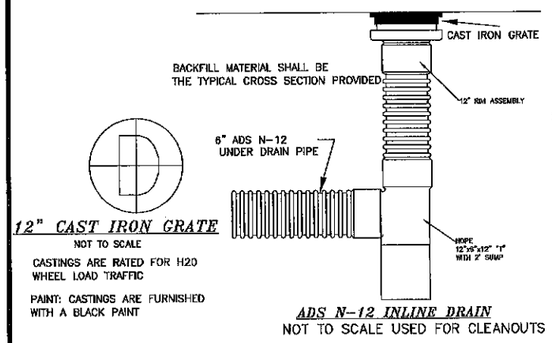
C12



CATCH BASIN DETAIL

NOT TO SCALE

C13



12" CAST IRON GRATE

NOT TO SCALE

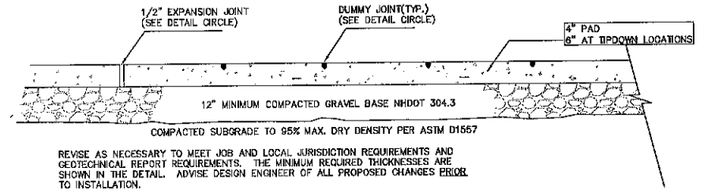
CASTINGS ARE RATED FOR H20 WHEEL LOAD TRAFFIC

PAINT: CASTINGS ARE FURNISHED WITH A BLACK PAINT

ADS N-12 INLINE DRAIN

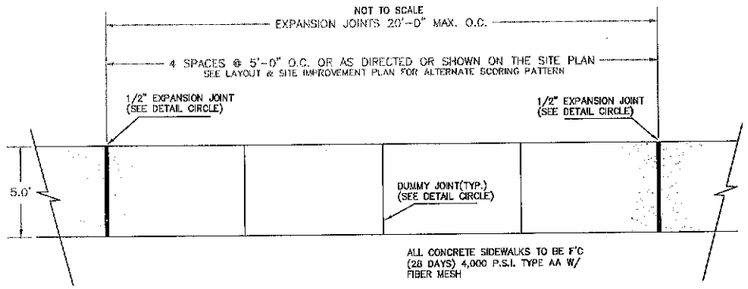
NOT TO SCALE USED FOR CLEANOUTS

C17

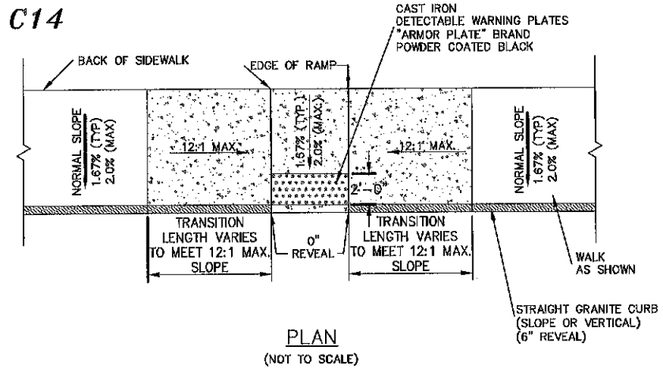


REVISE AS NECESSARY TO MEET JOB AND LOCAL JURISDICTION REQUIREMENTS AND GEOTECHNICAL REPORT REQUIREMENTS. THE MINIMUM REQUIRED THICKNESSES ARE SHOWN IN THE DETAIL. ADVISE DESIGN ENGINEER OF ALL PROPOSED CHANGES PRIOR TO INSTALLATION.

CONCRETE SIDEWALK

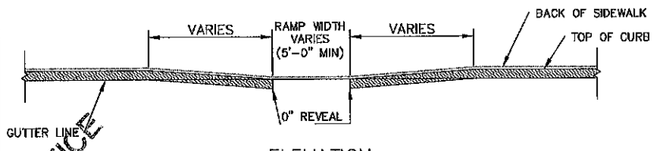


C14



PLAN

(NOT TO SCALE)



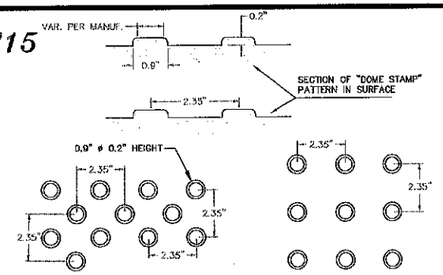
ELEVATION

NOT TO SCALE

TYPICAL DETAIL FOR WHEELCHAIR RAMP

NOT TO SCALE

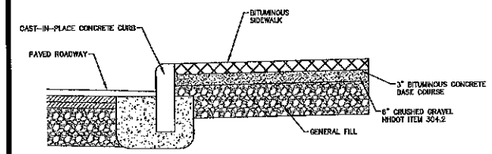
C15



DETECTABLE WARNING SURFACE

NOT TO SCALE

C16



BITUMINOUS SIDEWALK

NOT TO SCALE

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AS NOTED

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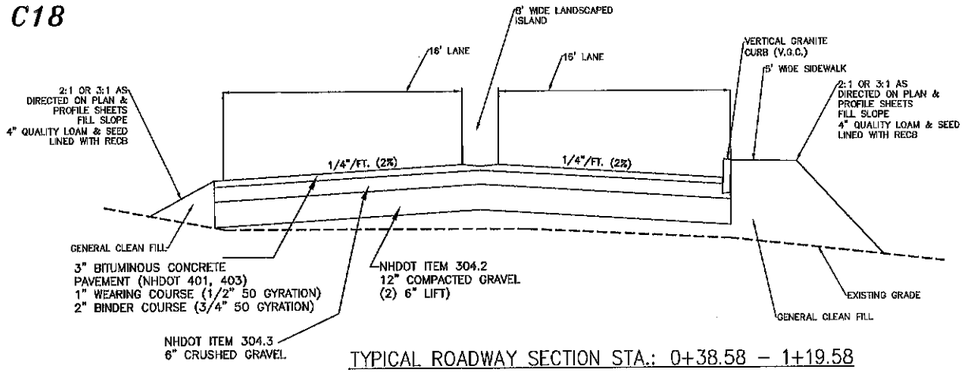
FILE NO. : DB 2018 - 005

KENNETH BERRY No. 7043 LICENSED PROFESSIONAL ENGINEER STATE OF NEW HAMPSHIRE

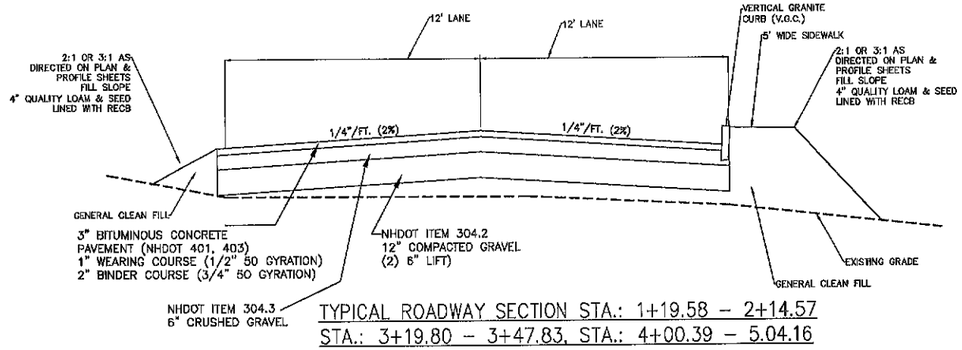
C-102

SHEET 18 OF 19

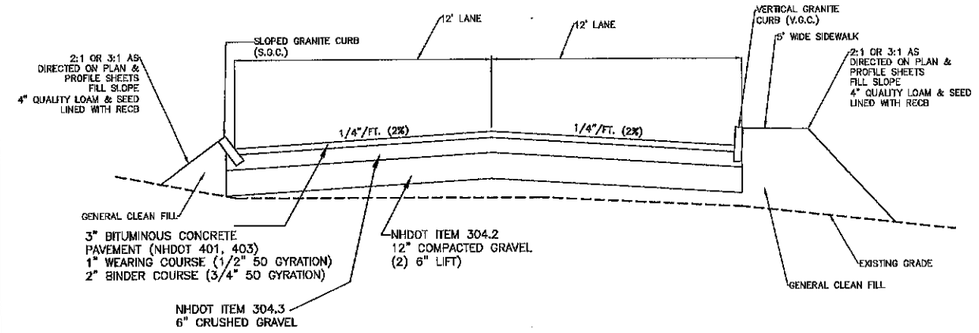
C18



TYPICAL ROADWAY SECTION STA.: 0+38.58 – 1+19.58

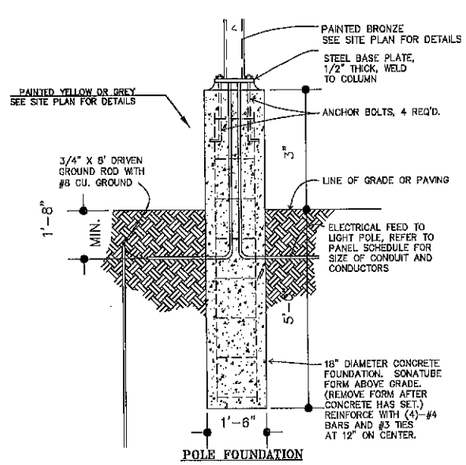


TYPICAL ROADWAY SECTION STA.: 1+19.58 – 2+14.57
STA.: 3+19.80 – 3+47.83, STA.: 4+00.39 – 5.04.16

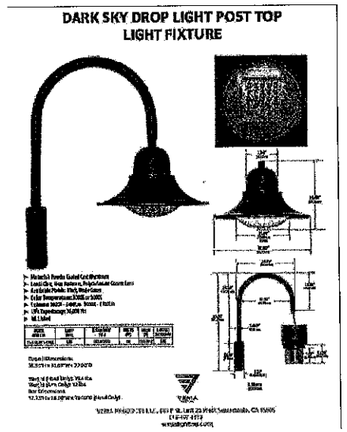


TYPICAL ROADWAY SECTION STA.: 2+84.80 – 3+19.80

C19

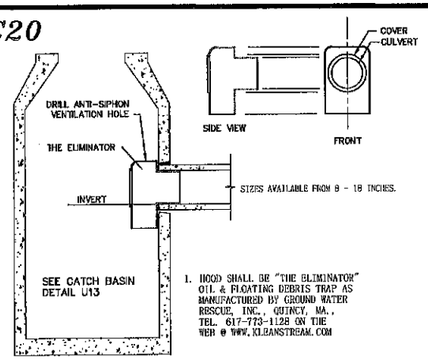


PARKING LOT LIGHT BASE DETAIL
SCALE: NONE



PARKING LOT LAMP "A"
SCALE: NONE

C20



CATCH BASIN HOOD DETAIL
NOT TO SCALE

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STATE OF NEW HAMPSHIRE
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C-103