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SITE PLAN REVIEW FOR INT'L BROTHERHOOD OF ELECTRICAL WORKERS LOCAL 104 22 OLD CONCORD TURNPIKE BARRINGTON, N.H. TAX MAP 271, LOT 23

FOR PLANNING BOARD APPROVAL PURPOSES:

THE SUBDIVISION REGULATIONS OF THE TOWN OF BARRINGTON ARE A PART OF THIS PLAN, AND APPROVAL OF THIS PLAN IS CONTINGENT UPON COMPLETION OF ALL REQUIREMENTS OF SAID SUBDIVISION REGULATIONS, EXCEPTING ONLY MODIFICATIONS MADE IN WRITING BY THE BOARD AND ATTACHED HERETO.

GIS SKETCH
BARRINGTON & LEE, N.H.
SCALE: 1" = 200'±

OWNER: INT'L BROTHERHOOD OF ELECTRICAL WORKERS
22 OLD CONCORD TURNPIKE
BARRINGTON, NH 03825

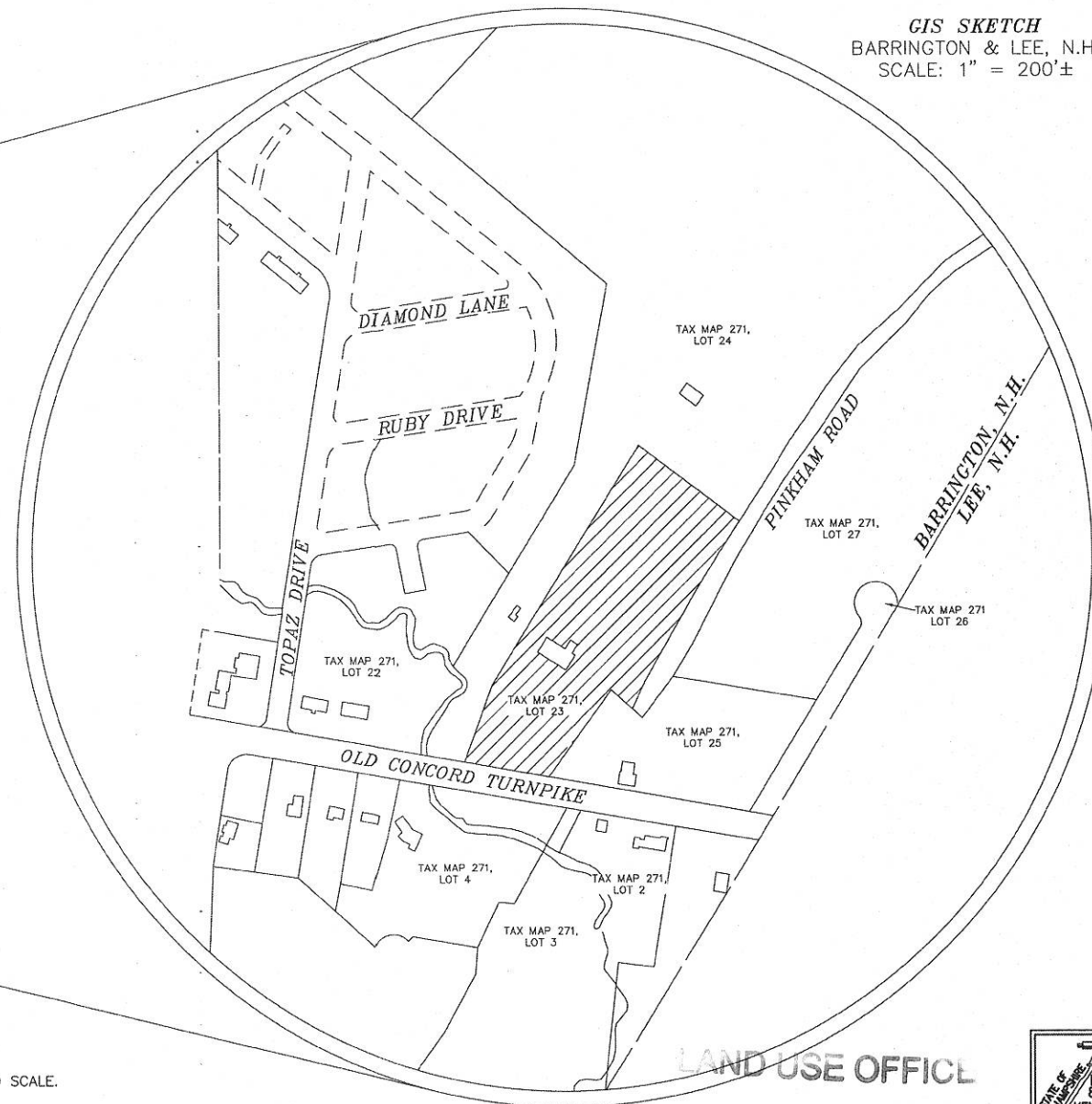
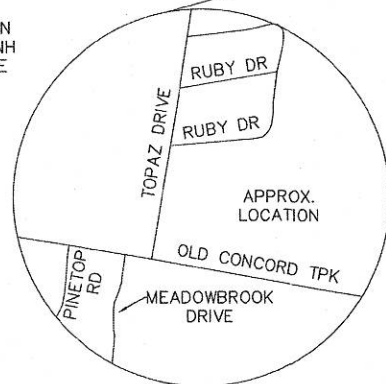
SURVEYOR OF RECORD: KENNETH A. BERRY, PE, LLS
CPESC, CESSWI
BERRY SURVEYING & ENGINEERING
335 CROWN POINT ROAD
BARRINGTON, NH 03825
(603) 332-2863

SIGNATURE

DEVELOPER: INT'L BROTHERHOOD OF ELECTRICAL WORKERS
22 OLD CONCORD TURNPIKE
BARRINGTON, NH 03825

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

LOCATION PLAN
BARRINGTON, NH
NOT TO SCALE



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REQUIRED PERMITS:

- ~ NHDOT
- ~ NHDES SEPTIC
- ~ US EPA CGP NOTICE OF INTENT

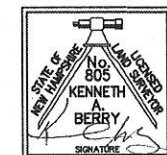
GENERAL PLAN SET NOTES:

- 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.

#1	REVISION	DATE	DESCRIPTION
	10-23-15		REVISIONS PER TOWN ENGINEER COMMENTS

SITE PLAN REVIEW FOR INT'L BROTHERHOOD OF ELECTRICAL WORKERS LOCAL 104 22 OLD CONCORD TURNPIKE (ROUTE 4) BARRINGTON, N.H. TAX MAP 271, LOT 23

BERRY SURVEYING & ENGINEERING 335 SECOND CROWN POINT ROAD BARRINGTON, NH 03825 {332-2863}
SCALE : AS-NOTED
DATE : SEPTEMBER 9, 2015
FILE NO. : DB 2014-129



TEST HOLE DATA

TEST HOLE #1
0' - 0.4' 10YR 3/3 FINE SANDY LOAM, GRANULAR, FRIABLE
0.4' - 1.0' 10YR 5/8, GRANULAR, SINGLE GRAIN
1.0' - 3.3' 10YR 6/6 FINE SANDY LOAM, GRANULAR, SINGLE GRAIN
3.3' - 5.0' 10YR 6/6 FINE SANDY LOAM, GRANULAR, FIRM IN HOLE
S.H.W.T. 3.3'
G.W. NO GROUNDWATER OBSERVED
ROOTS NONE
PERC. RATE: 4 MIN/INCH

TEST HOLE #2
0' - 1.0' 10YR 5/4 FINE SANDY LOAM, GRANULAR AND FRIABLE
1.0' - 4.0' 10YR 7/8 FINE SAND, GRANULAR AND SINGLE GRAIN
4.0' - 5.0' 10YR 6/3 FINE SAND, GRANULAR, FIRM IN HOLE
S.H.W.T. 4.0'
G.W. NO GROUNDWATER OBSERVED
FINE ROOTS TO 1.5'
PERC. RATE: 4 MIN/INCH

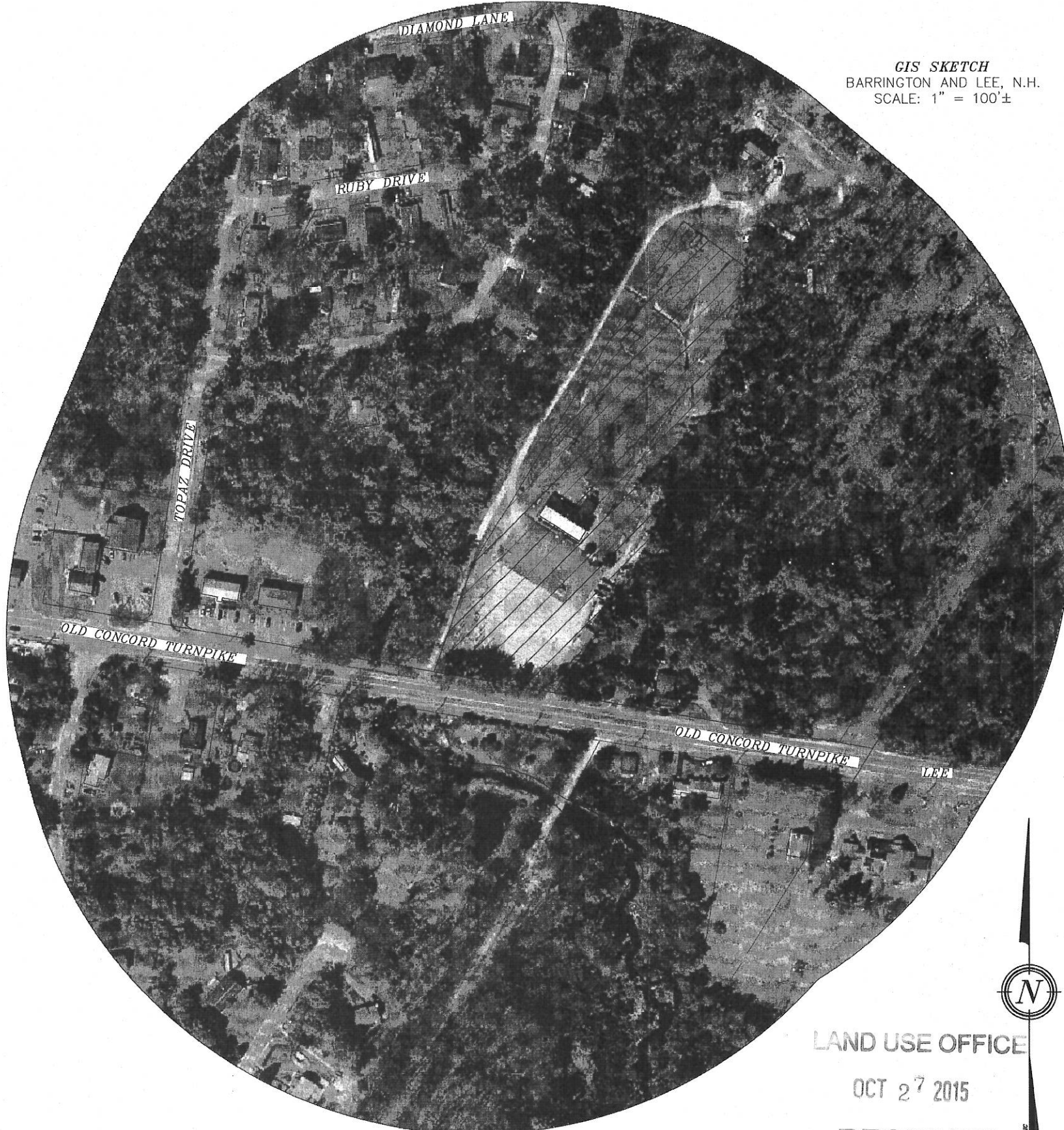
LEGEND:

- IRON BOUND ~TBS~
- IRON BOUND ~FND~
- GRANITE BOUND ~FND~
- STONE BOUND ~FND~
- UTILITY POLE
- GUY WIRE
- CURB STOP
- GATE VALVE
- GAS VALVE
- FIRE HYDRANT
- CATCH BASIN
- SEWER MAN HOLE
- SINGLE POST SIGN
- POLE LIGHT
- TESTPIT
- TREE
- BUILDING SETBACK LINE
- EASEMENT LINE
- GAS LINE
- WATER LINE
- SEWER LINE
- OVERHEAD UTILITIES
- UNDERGROUND UTILITIES
- HIGHWAY FENCE
- SOILS LINE
- MAJOR CONTOUR LINE
- MINOR CONTOUR LINE
- R.O.W. LINE
- ABUTTING LOT LINES
- SPOT ELEVATION
- 50' WETLAND BUFFER
- EXISTING CONTOUR MINOR
- EXISTING CONTOUR MAJOR
- PROPOSED CONTOUR MINOR
- PROPOSED CONTOUR MAJOR
- PROPOSED CULVERT W/ FLARED END SECTION (F.E.S.)
- DETAIL SHEET / DETAIL
- PROPOSED & EXISTING TREELINE
- RIP-RAP APRON
- PROPOSED CENTER LINE
- PROPOSED UNDERGROUND UTILITY
- PROPOSED UNDER DRAIN (U.D.)
- PROPOSED TRANSFORMER / JUNCTION BOX
- EXISTING SECTOR CABINET AND ELECTRIC MANHOLE

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
- 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
- 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)

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	1	RED	WHITE	WHITE	U-CHANNEL (1)
R7-1	12"x18"	NO PARKING ANY TIME	SEE STANDARD HIGHWAY SIGNS 2004 EDITION PUBLISHED BY USDOT - FHWA	2	WHITE	RED	RED	U-CHANNEL (2)
R7-8	12"x18"	RESERVED PARKING	SEE STANDARD HIGHWAY SIGNS 2004 EDITION PUBLISHED BY USDOT - FHWA	3	WHITE	GREEN W/ WHITE SYMBOL ON BLUE	RED	U-CHANNEL (3)
R7-8a	12"x6"	VAN ACCESSIBLE	SEE STANDARD HIGHWAY SIGNS 2004 EDITION PUBLISHED BY USDOT - FHWA	1	WHITE	GREEN	GREEN	U-CHANNEL (1)
N/A	12"x18"	NO PARKING FIRE LANE	SEE STANDARD HIGHWAY SIGNS 2004 EDITION PUBLISHED BY USDOT - FHWA	4	WHITE	RED	RED	U-CHANNEL (4)
R5-1	30"x30"	DO NOT ENTER	SEE STANDARD HIGHWAY SIGNS 2004 EDITION PUBLISHED BY USDOT - FHWA	1	WHITE W/ RED SYMBOL	WHITE	WHITE	U-CHANNEL (1)
R6-1L	36"x12"	ONE WAY	SEE STANDARD HIGHWAY SIGNS 2004 EDITION PUBLISHED BY USDOT - FHWA	1	BLACK W/ WHITE ARROW	BLACK	WHITE	U-CHANNEL (1)



GIS SKETCH
BARRINGTON AND LEE, N.H.
SCALE: 1" = 100'±

REVISIONS PER TOWN ENGINEER COMMENTS		#1	10-23-15	REVISIONS PER TOWN ENGINEER COMMENTS
DESCRIPTION				

1500' NEIGHBORHOOD PLAN
FOR
INT'L BROTHERHOOD OF ELECTRICAL
WORKERS LOCAL 104
22 OLD CONCORD TURNPIKE (ROUTE 4)
BARRINGTON, NH 03825
TAX MAP 271, LOT 23

BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 {332-2863}
SCALE: AS-NOTED
DATE: SEPTEMBER 9, 2015
FILE NO.: DB 2014-129

STATE OF NEW HAMPSHIRE
KENNETH A. BERRY
No. 14243
LICENSED PROFESSIONAL ENGINEER

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SOILS:

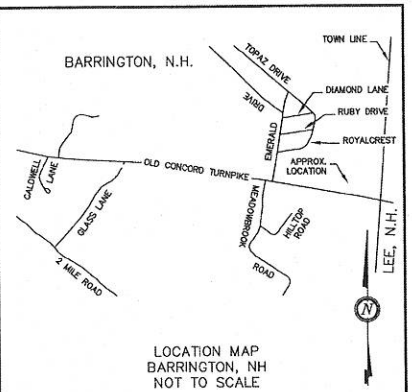
ADB ~ ACTON VERY STONEY FINE SANDY LOAM,
0 TO 8 PERCENT SLOPES
Gsb ~ GLOUCESTER VERY STONY FINE SANDY
LOAM, 3 TO 8 PERCENT SLOPES
SuB ~ SUTTON VERY STONY FINE SANDY LOAM,
0 TO 8 PERCENT SLOPES
Wa ~ WHITMAN VERY STONY FINE SANDY LOAM
WdA ~ WINDSOR LOAMY SAND, 0 TO 3
PERCENT SLOPES

SEE WEBSOIL USDA-NRCS

THE WETLAND DELINEATION WAS COMPLETED NOVEMBER, 2014
IN ACCORDANCE WITH THE 1987 CORP OF ENGINEERS WETLAND
DELINEATION MANUAL. JURISDICTIONAL WETLANDS WERE IDENTIFIED
AND DELINEATED USING THE ROUTINE DETERMINATIONS METHOD
AS OUTLINED IN THE MANUAL. THE DELINEATION WAS DONE BY:
FRAGGLE ROCK ENV., DAMON BURT - CWS #163
38 GARLAND ROAD, STRAFFORD, NH 03884

PLAN REFERENCES:

- 1.) "LOT LINE ADJUSTMENT PLAN PREPARED FOR GOWEN FAMILY
REVOCABLE TRUST OF TAX MAP 271/LOTS
23 & 24 LOCATED AT NH ROUTE 4 COUNTY OF
STRAFFORD BARRINGTON, NH"
BY: DAVID W. VINCENT, LLS LAND SURVEYING SERVICES
DATED: JULY 18, 2006
S.C.R.D.: PLAN # 88-37
- 2.) "A SURVEY AND PLAT OF A SUBDIVISION PREPARED FOR
NICHOLAS P. & KATHOLKI CHAKOUTIS SITUATED IN THE TOWN
OF BARRINGTON & LEE NEW HAMPSHIRE"
BY: R.S.L. LAYOUT & DESIGN INC.
DATED: JULY 27, 1987
S.C.R.D.: PLAN #33A-78
- 3.) "BOUNDARY PLAN CHARLES VOROSMARTY ROUTE
BARRINGTON, NEW HAMPSHIRE"
BY: R.G. MOYNIHAN CIVIL ENGINEER AND SURVEYOR
DATED: OCTOBER 18, 1990
S.C.R.D.: PLAN # 32A-23
- 4.) "PLAN OF LAND MAJOR WALDRONS SPORTSMEN'S ASSOC."
BY: FREDERICK E. DREW ASSOCIATES
DATED: FEBRUARY 1985
S.C.R.D.: PLAN # 24A-198



NOTES:

- 1.) OWNER: PROJECT ADDRESS: INT'L BROTHERHOOD OF
ELECTRICAL WORKERS
22 OLD CONCORD TURNPIKE
BARRINGTON, NH 03825
MAILING ADDRESS: INT'L BROTHERHOOD OF
ELECTRICAL WORKERS
130 WEST STREET
WALPOLE, MA 02081
- 2.) TAX MAP 271, LOT 23
- 3.) S.C.R.D. BOOK 3552, PAGE 349
- 4.) LOT AREA: 219,154 Sq. Ft., 5.03 Ac.
- 5.) THE INTENT OF THIS PLAN IS TO SHOW THE EXISTING BOUNDARIES
AND CONDITIONS OF TAX MAP 271, LOT 23, LOCATED IN BARRINGTON,
N.H., AS OF THE DATE OF THIS PLAN.
- 6.) I HEREBY CERTIFY THAT, TO THE BEST OF MY KNOWLEDGE AND
BELIEF, A PORTION OF THIS PROPERTY DOES NOT FALL WITHIN THE
FLOOD PLAIN FLOOD HAZARD REF: FEMA MAP# 33017C02950, DATED:
MAY 17, 2005.
- 7.) VERTICAL DATUM BASED ON NAVD88 ELEVATIONS. COORDINATES
GATHERED USING TOPCON HIPER SR SURVEY GRADE GPS.
- 8.) EXISTING IMPERVIOUS AREA = 61,766 Sq.Ft. 28.1%
- 9.) ALL ABUTTING PROPERTIES ARE IN THE REGIONAL COMMERCIAL ZONE.

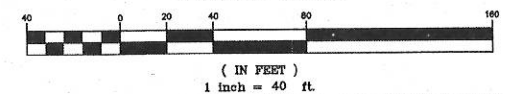
ZONING:

ZONE: REGIONAL COMMERCIAL
MIN. LOT SIZE: 40,000 Sq. Ft.
MIN. FRONTAGE: 200'
FRONT SETBACK: 75'
SIDE SETBACK: 30'
REAR SETBACK: 30'
OPEN SPACE:
MAX. LOT COVERAGE: 50%
MAX. HEIGHT: 40' - 3 STORIES
RESIDENTIAL BUFFER: 50'

SITE PLAN REVIEW

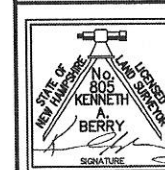
NON-RESIDENTIAL PARKING AREA: FRONT BUFFER (50') 4.2.3(5)

GRAPHIC SCALE

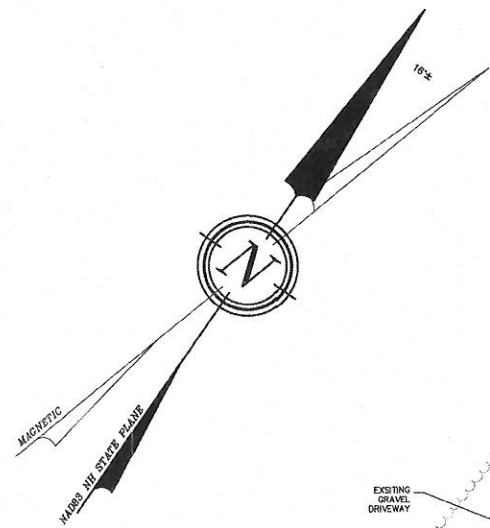


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I CERTIFY THAT THIS PLAT EXCEEDS THE
MINIMUM REQUIREMENT FOR ACCURACY AND
COMPLETENESS OF THE STATE OF N.H. AND
OF THE TOWN OF BARRINGTON. - 1:10,000 -
KENNETH A. BERRY RLS 805 DATE



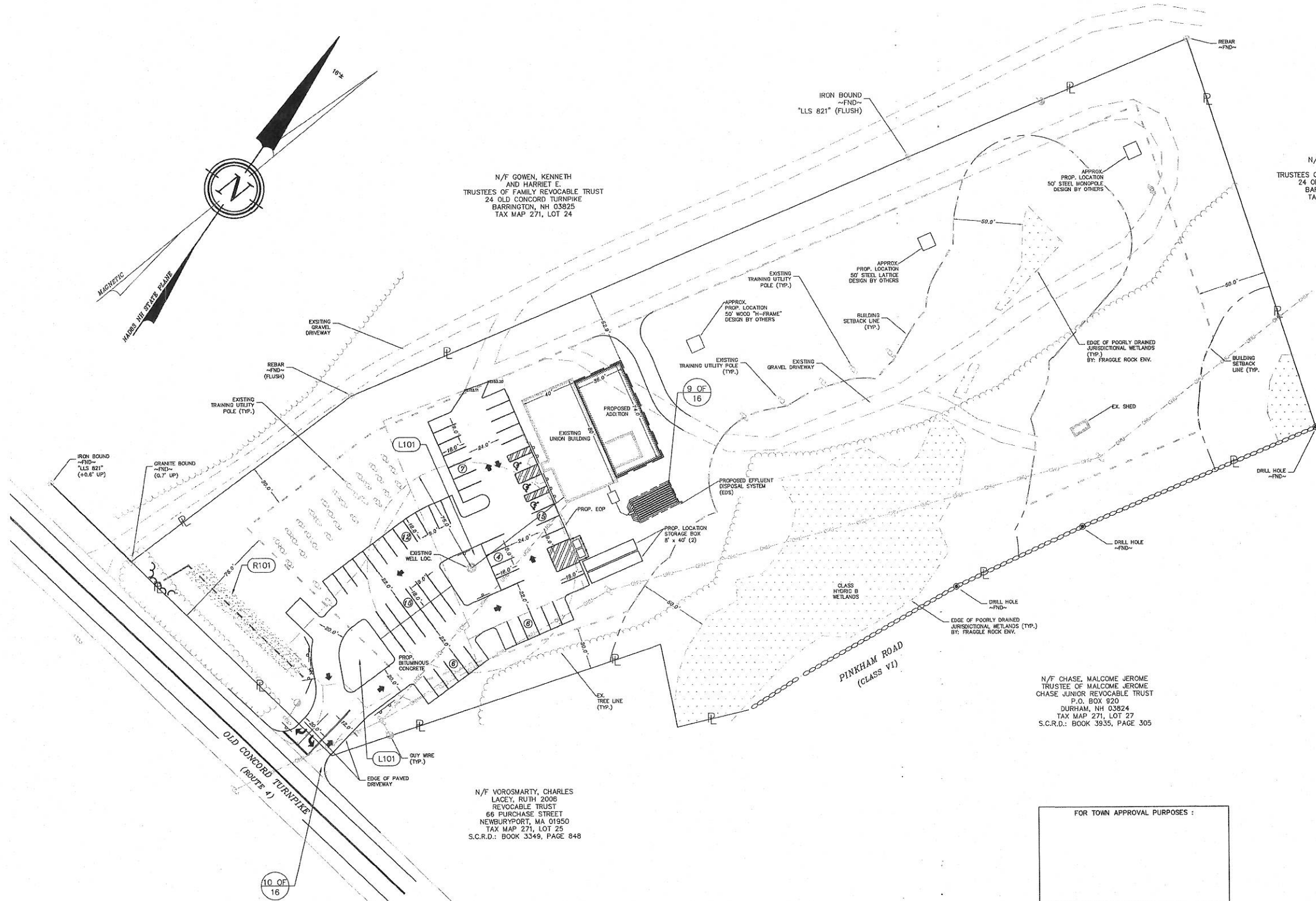
BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT RD.
BARRINGTON, N.H. 332-2863
SCALE : 1 IN. EQUALS 40 FT.
DATE : SEPTEMBER 9, 2015
FILE NO. : DB 2014 - 129



N/F GOWEN, KENNETH
AND HARRIET E.
TRUSTEES OF FAMILY REVOCABLE TRUST
24 OLD CONCORD TURNPIKE
BARRINGTON, NH 03825
TAX MAP 271, LOT 24

N/F GOWEN, KENNETH
AND HARRIET E.
TRUSTEES OF FAMILY REVOCABLE TRUST
24 OLD CONCORD TURNPIKE
BARRINGTON, NH 03825
TAX MAP 271, LOT 24

PARKING CALCULATIONS
REQUIREMENTS:
(TRADE SCHOOL) 1 SPACE PER 4 STUDENTS
(OFFICE) - 1 SPACE PER 300 Sq.Ft.
1,000 Sq.Ft. ± OFFICE SPACE - 4 SPACES
60 STUDENTS AT LARGEST CLASS - 15 SPACES
19 SPACES REQUIRED
62 SPACES PROVIDED, INCLUDING 3 ADA SPACES



- 9 OF 16 - SHEET 9 OF 6
- L101 - LANDSCAPE SHEET 101
- R101 - RAINGARDEN SHEET 101
- 4 - NUMBER OF PARKING SPACES

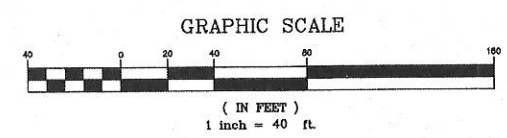
N/F CHASE, MALCOLME JEROME
TRUSTEE OF MALCOLME JEROME
CHASE JUNIOR REVOCABLE TRUST
P.O. BOX 920
DURHAM, NH 03824
TAX MAP 271, LOT 27
S.C.R.D.: BOOK 3935, PAGE 305

N/F VOROSMARTY, CHARLES
LACEY, RUTH 2006
REVOCABLE TRUST
66 PURCHASE STREET
NEWBURYPORT, MA 01950
TAX MAP 271, LOT 25
S.C.R.D.: BOOK 3349, PAGE 848

FOR TOWN APPROVAL PURPOSES :

THE SUBDIVISION REGULATIONS OF THE TOWN OF BARRINGTON ARE A PART OF THIS PLAN, AND APPROVAL OF THIS PLAN IS CONTINGENT UPON COMPLETION OF ALL REQUIREMENTS OF SAID SUBDIVISION REGULATIONS, EXCEPTING ONLY MODIFICATIONS MADE IN WRITING BY THE BOARD AND ATTACHED HERETO.

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#	REVISION	DATE	REVISIONS PER TOWN ENGINEER COMMENTS	DESCRIPTION
		10-23-15		

OVERVIEW SITE PLAN
FOR
INT'L BROTHERHOOD OF ELECTRICAL WORKERS
OLD CONCORD TURNPIKE (ROUTE 4)
BARRINGTON, NH 03825
TAX MAP 271, LOT 23

BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 {332-2863}
SCALE : 1 IN. EQUALS 40 FT.
DATE : SEPTEMBER 9, 2015
FILE NO. : DB 2014-129

SHEET 3 OF 16

PARKING CALCULATIONS
 REQUIREMENTS:
 (TRADE SCHOOL) 1 SPACE PER 4 STUDENTS
 (OFFICE) - 1 SPACE PER 300 Sq.Ft.
 1,000 Sq.Ft.± OFFICE SPACE - 4 SPACES
 60 STUDENTS AT LARGEST CLASS - 15 SPACES
 19 SPACES REQUIRED
 62 SPACES PROVIDED, INCLUDING 3 ADA SPACES

NOTES:

- THE INTENT OF THIS PLAN SET IS TO DEMONSTRATE THE SITE PLAN DESIGN OF A PROPOSED ADDITION AND PROPOSED PARKING LOT.
- CURRENT OWNER: INTERNATIONAL BROTHERHOOD OF ELECTRICAL WORKERS
22 OLD CONCORD ROAD
BARRINGTON, NH 03825
- THE PROJECT PARCEL IS LOT NO. 23, MAP 271 OF THE TOWN OF BARRINGTON TAX ASSESSOR'S MAPS.
- THE PROJECT PARCEL CONTAINS 5.03 ACRES OR 219,154 SQUARE FEET AREA OF LAND.
- EXISTING IMPERVIOUS AREA = 61,766 Sq.Ft. 28.1%
PROPOSED IMPERVIOUS AREA = 60,536.57 Sq.Ft. 27.6%
- TITLE REFERENCE FOR THE PROJECT PARCEL IS THE STRAFFORD COUNTY REGISTRY OF DEEDS, (S.C.R.D.) BOOK NO. 3552, PAGE NO. 349.
- ZONING NOTES: REGIONAL COMMERCIAL, STRATIFIED DRIFT AQUIFER OVERLAY
MINIMUM LOT SIZE: 40,000 SQUARE FEET
MINIMUM FRONTAGE: 200 FEET
BUILDING SETBACK REQUIREMENTS:
FRONT (EXISTING) 75 FEET
SIDE 30 FEET
REAR 30 FEET
MAXIMUM LOT COVERAGE: 50 PERCENT
MAXIMUM BUILDING HEIGHT: 40 FEET - 3 STORIES
- PROPERTY LINE INFORMATION HAS BEEN OBTAINED FROM A SURVEY PERFORMED BY BERRY SURVEYING & ENGINEERING IN NOVEMBER 2014 WITH AN ERROR OF CLOSURE GREATER THAN 1 IN 10,000 UNDER NO SNOW CONDITIONS.
- LOT LIMITS TO BE LAID OUT BY BS&E.
- THE SUBJECT PARCEL IS NOT LOCATED WITHIN AREAS DETERMINED TO BE WITHIN THE 0.2 PERCENT ANNUAL CHANCE FLOODPLAIN AS SHOWN ON FEMA FLOOD INSURANCE RATE MAP NO.: 33017002950 DATED MAY 17, 2005.
- WETLANDS WERE DELINEATED BY FRAGILE ROCK ENV., DAMON BURT, CERTIFIED WETLAND SCIENTIST CERTIFICATE NUMBER 163.
- 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 UPON COMPLETION OF PROJECT. AS-BUILT PLANS SHALL BE PREPARED AND CERTIFIED CORRECT BY A L.L.S. OR P.E.
- TOPOGRAPHIC SURVEY PERFORMED BY BERRY SURVEYING & ENGINEERING IN NOVEMBER 2014 UNDER NO SNOW CONDITIONS AND IS SHOWN AT 1 FOOT INTERVALS.
- DATUM: PROJECT DATUM IS BASED ON GPS COORDINATES ESTABLISHED WITH A TOPCON HIPER SR RECEIVER IN NOVEMBER 2014 AND REPRESENTED IN NEW HAMPSHIRE STATE PLANE COORDINATES NAD 1983 AND VERTICALLY BY NAVD 1988.
- IF A SPRINKLER SYSTEM IS REQUIRED FOR THE PROPOSED ADDITION, IT IS TO BE DESIGNED BY OTHERS.
- ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO APPLICABLE TOWN AND STATE CODES.
- REQUIRED EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO ANY DISTURBANCE OF THE SITE SURFACE AREA AND SHALL BE MAINTAINED THROUGH THE COMPLETION OF ALL CONSTRUCTION ACTIVITIES. IF DURING CONSTRUCTION IT BECOMES APPARENT THAT ADDITIONAL EROSION CONTROL MEASURES ARE REQUIRED TO STOP ANY EROSION ON THE CONSTRUCTION SITE DUE TO ACTUAL SITE CONDITIONS, THE OWNER SHALL BE REQUIRED TO INSTALL THE NECESSARY EROSION PROTECTION AT NO EXPENSE TO THE TOWN.
- ALL TREATMENT SWALES TO BE CONSTRUCTED SHALL HAVE SOD BOTTOMS.
- A LETTER OF CREDIT FOR THE COST OF REVEGETATING ALL DISTURBED AREAS ON THE SITE SHALL BE SUBMITTED PRIOR TO ANY EARTH DISTURBING ACTIVITY OCCURS.
- A PRE-CONSTRUCTION CONFERENCE WITH THE DEVELOPER, THE DESIGN ENGINEER, THE EARTHWORK CONTRACTOR AND THE TOWN'S ENGINEER SHALL OCCUR PRIOR TO ANY EARTH DISTURBING ACTIVITY.
- THE PROPOSED USE FOR THE SITE IS COMMERCIAL.
- THIS PLAN PROPOSES 53,000 SQ. FT. OF DISTURBANCE.
- CALL DIG SAFE PRIOR TO BEGINNING WORK (1-888-344-7233).
- ALL CONSTRUCTION SHALL CONFORM TO THE TOWN OF BARRINGTON SUBDIVISION REGULATIONS AND THE LATEST EDITION OF THE STATE OF NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
- WRITTEN DIMENSIONS 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.
- SNOW STORAGE AREAS ARE AS SHOWN ON THIS SITE PLAN. NO SNOW IS TO BE STORED IN THE TREATMENT SWALE. SNOW IN THIS AREA IS TO BE PUSHED BEYOND THE TREATMENT SWALE. EXCESS SNOW WILL BE REMOVED FROM THIS SITE AND DISPOSED OF IN A QUALIFIED LOCATION.
- TRAINING UTILITY POLES WILL BE PERIODICALLY ERECTED AND TAKEN DOWN INSIDE THE BUILDING ENVELOPE.
- IF DURING CONSTRUCTION IT BECOMES APPARENT THE DEFICIENCIES EXIST IN THE APPROVED DESIGN DRAWINGS, THE CONTRACTOR SHALL BE REQUIRED TO CORRECT THE DEFICIENCIES TO MEET THE REQUIREMENTS OF THE REGULATIONS AT NO EXPENSE TO THE TOWN.
- THE EXISTING USE OF THE PROPERTY IS FOR THE LOCAL IBEW UNION TRAINING SITE. THE PROPOSED USE IS THE SAME.
- THE WATER SUPPLY SOURCE IS AN ON-SITE WELL.

#1	REVISION	DATE	REVISIONS PER TOWN ENGINEER COMMENTS	DESCRIPTION
		10-23-15		

20 SCALE SITE PLAN
 FOR
 INT'L BROTHERHOOD OF ELECTRICAL WORKERS
 OLD CONCORD TURNPIKE (ROUTE 4)
 BARRINGTON, NH 03825
 TAX MAP 271, LOT 23

BERRY SURVEYING & ENGINEERING
 335 SECOND CROWN POINT ROAD
 BARRINGTON, NH 03825 {332-2863}
 SCALE : 1 IN. EQUALS 20 FT.
 DATE : SEPTEMBER 9, 2015
 FILE NO. : DB 2014-129

STATE OF NEW HAMPSHIRE
KENNETH A. BERRY
 No. 14243
 LICENSED PROFESSIONAL ENGINEER

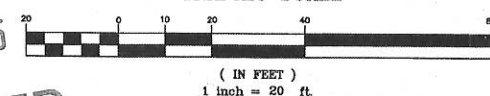
N/F VROSMARTY, CHARLES
 LACEY, RUTH 2006
 REVOCABLE TRUST
 68 PURCHASE STREET
 NEWBURYPORT, MA 01950
 TAX MAP 271, LOT 25
 S.C.R.D.: BOOK 3349, PAGE 848

FOR TOWN APPROVAL PURPOSES:

THE SUBDIVISION REGULATIONS OF THE TOWN OF BARRINGTON ARE A PART OF THIS PLAN, AND APPROVAL OF THIS PLAN IS CONTINGENT UPON COMPLETION OF ALL REQUIREMENTS OF SAID SUBDIVISION REGULATIONS, EXCEPTING ONLY MODIFICATIONS MADE IN WRITING BY THE BOARD AND ATTACHED HERETO.

LAND USE OFFICE
 OCT 27 2015
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GRAPHIC SCALE



ADA COMPLIANCE NOTE:
HANDICAPPED ACCESSIBLE SPACES WILL BE ADA COMPLIANT. GRADES IN THE AREA OF HANDICAPPED SPACES SHALL NOT EXCEED 2%.

TESTHOLE DATA:

TEST HOLE #1	TEST HOLE #2
0' - 0.4'	10YR 7/3 FINE LOAMY SAND, GRANULAR AND FRIABLE
0.4' - 1.0'	10YR 5/8 COURSE SAND, GRANULAR AND SINGLE GRAIN
1.0' - 3.3'	10YR 6/6 FINE SAND, GRANULAR, SINGLE GRAIN
3.3' - 5.0'	10YR 6/6, FINE SAND, GRANULAR, FIRM IN HOLE, COMMON CONC. & DEPL.
S.H.W.T.	3.3'
G.W.	NO GROUNDWATER OBSERVED
PERC. RATE:	4 MIN/INCH
0' - 1.0'	10YR 5/4 FINE SANDY LOAM, GRANULAR AND FRIABLE
1.0' - 4.0'	10YR 7/6 FINE SAND, GRANULAR AND SINGLE GRAIN
4.0' - 5.0'	10YR 8/3 FINE SAND, GRANULAR, FIRM IN HOLE
S.H.W.T.	4.0'
G.W.	NO GROUNDWATER OBSERVED
FINE ROOTS	TO 1.5'
PERC. RATE:	4 MIN/INCH

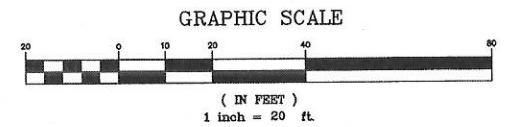
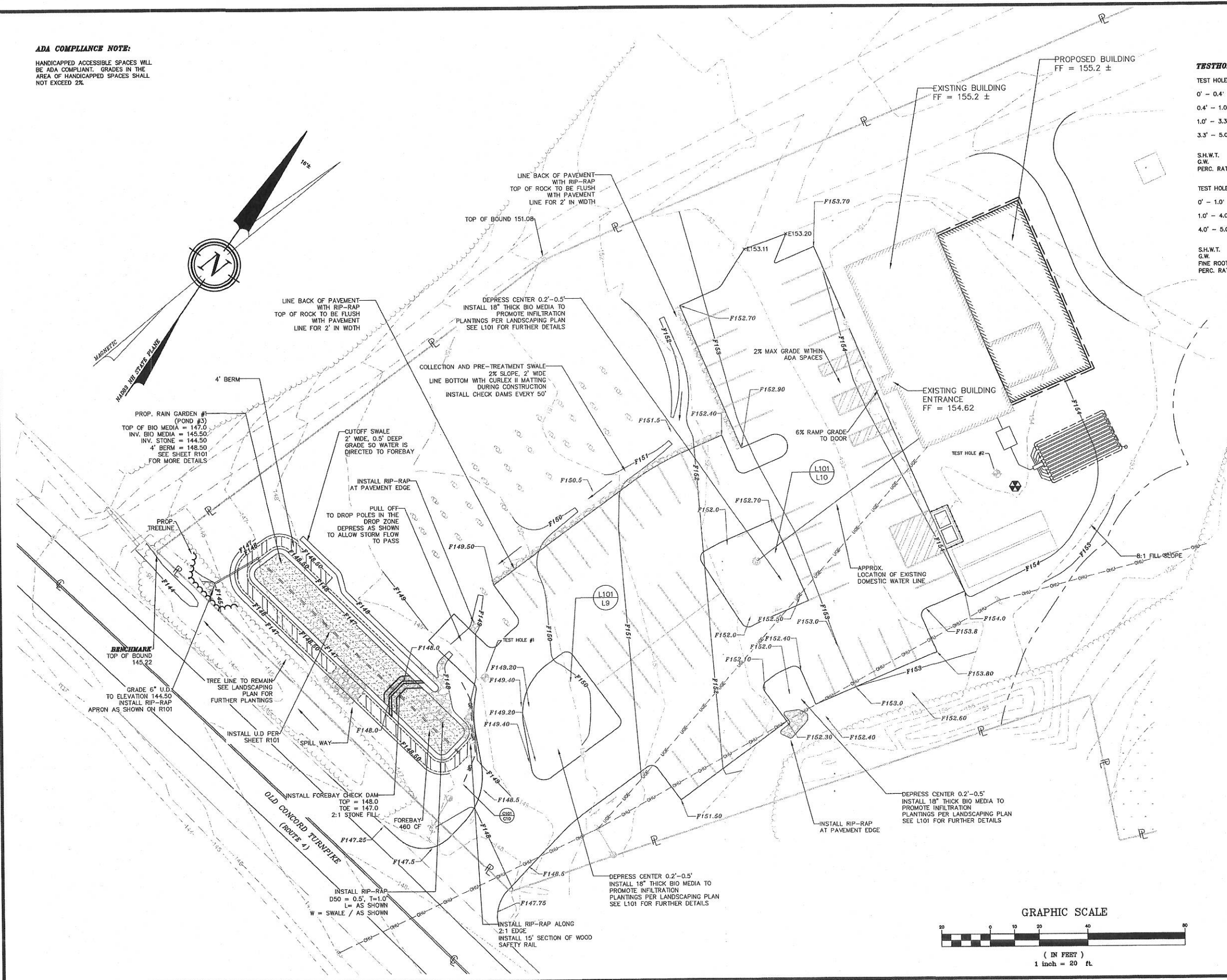
REVISION	DATE	DESCRIPTION
#1	10-23-15	REVISIONS PER TOWN ENGINEER COMMENTS

GRADING PLAN FOR
INT'L BROTHERHOOD OF ELECTRICAL WORKERS
22 OLD CONCORD TURNPIKE (ROUTE 4)
BARRINGTON, NH 03825
TAX MAP 271, LOT 23

BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 {332-2863}
SCALE : 1 IN. EQUALS 20 FT.
DATE : SEPTEMBER 9, 2015
FILE NO. : DB 2014-129

STATE OF NEW HAMPSHIRE
KENNETH A. BERRY
No. 14243
LICENSED PROFESSIONAL ENGINEER

SHEET 5 OF 16



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1.) THE RAIN GARDEN SUBGRADE IS NOT TO BE IMPACTED BY VEHICLE TRAFFIC. IF THIS INADVERTENTLY HAPPENS THE CONTRACTOR IS TO SCARIFY TO A DEPTH OF 6"

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. SOIL FILTER MEDIA SHALL BE AS SHOWN ABOVE.
2. GENERAL CONSTRUCTION NOTES ON THIS PLAN ALSO APPLY TO RAIN GARDEN #2.
3. AS REQUIRED, INSTALL DRAINAGE SUMP AND DISCHARGE TO STABLE AREA. DISCHARGE TO BE DIRECTED TOWARD FILTER SOCK.

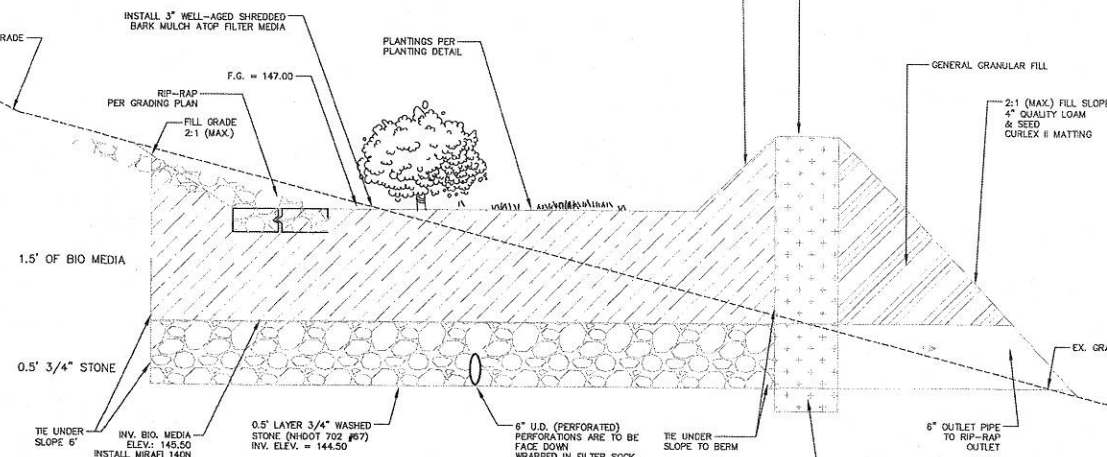
MAINTENANCE REQUIREMENTS

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 DRAINAGE TIME. IF BIOTEXTION 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.

RAIN GARDEN #1 CROSS SECTION POND #3 NOT TO SCALE

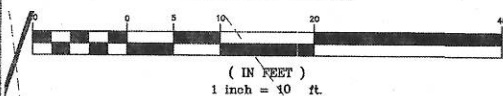


CRUSHED STONE BEDDING*	
SIEVE SIZE	% PASSING BY WEIGHT
1"	100
3/4"	90 - 100
#4	0 - 10
#8	0 - 5

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

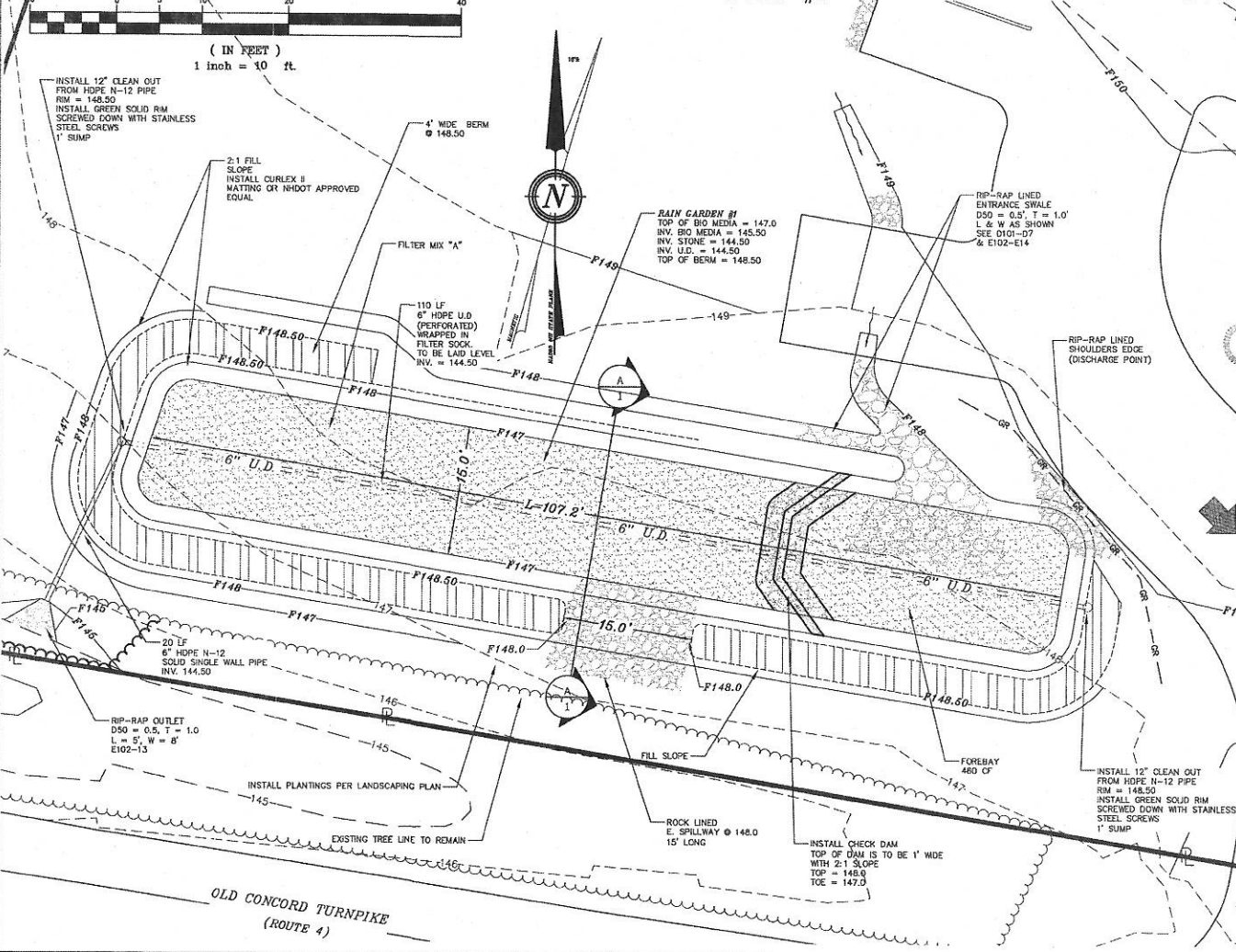
LOW PERMEABILITY MATERIAL GRADATION	
SIEVE SIZE	% PASSING BY WEIGHT
#4	95 - 100
#40	60 - 95
#100	40 - 60
#200	25 - 45

GRAPHIC SCALE



RAIN GARDEN DETAIL #1 POND #3

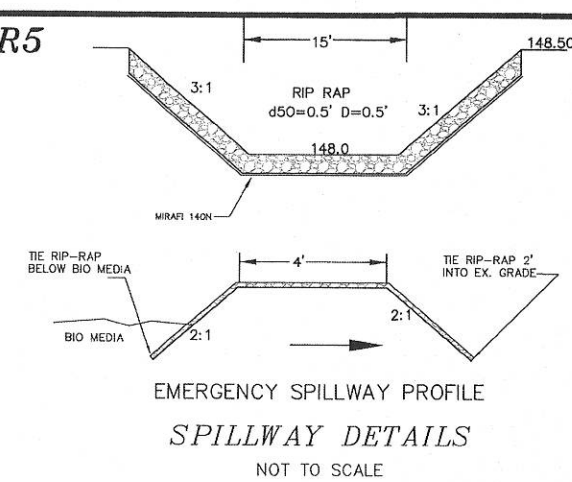
R3



R1

R2

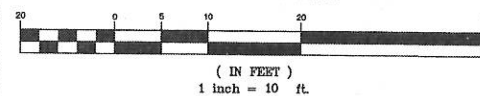
R5



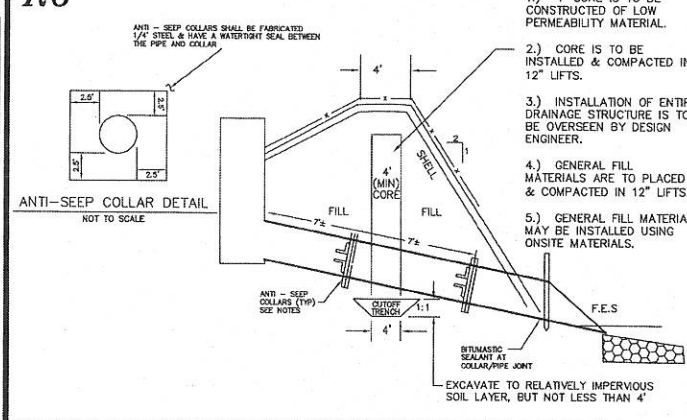
R4

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

GRAPHIC SCALE



R6



TREES AND SHRUBS

Sum	Qty	Botanical Name / Common Name	Root	Size	Remark
B	13	Pyrus calleryana 'Chanticleer' / Chanticleer flowering pear	Cont.	2"-2.5" Caliper, balled and burlapped	
C	17	Fothergilla gardenii / Dwarf Fothergilla	Cont.	2' Ht. or 3 Gal.	
D	10	Ilex glabra 'Nordii' / Nordic Inkberry	Cont.	2' Ht. or 3 Gal.	

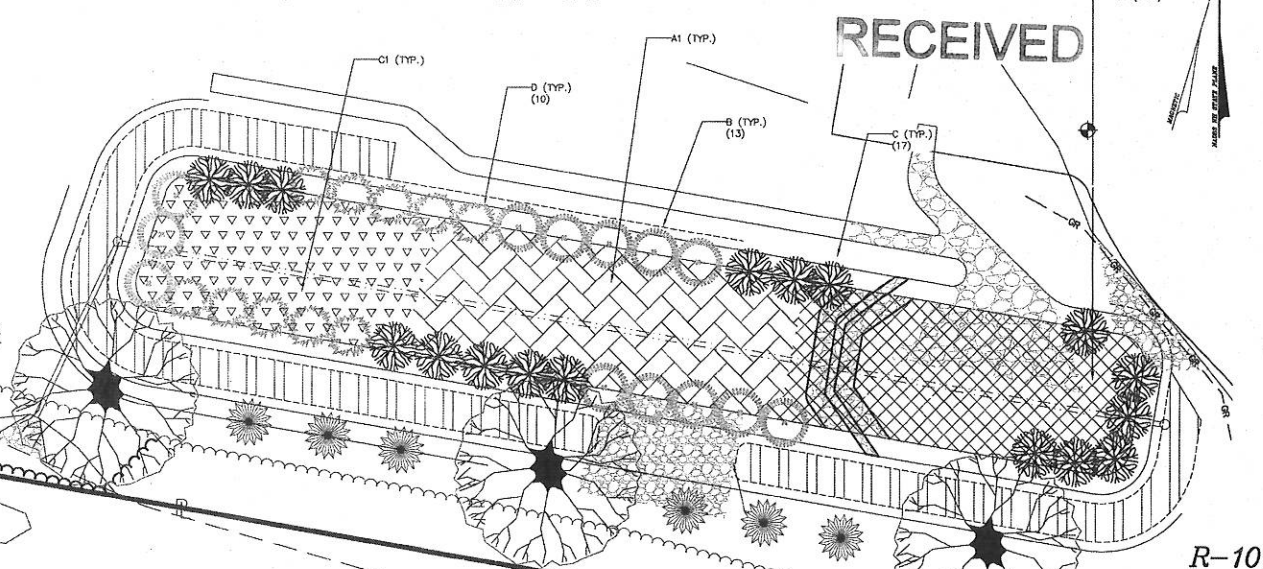
PERENNIALS & GROUND COVERS

Sum	Qty	Botanical Name / Common Name	Root	Size	Remark
A1	50	Daylily Mix: 'Chicago Apache' / Daylily	Cont.	1 Gal.	24" OC
		Hemerocallis 'Big Time Happy' / Daylily	Cont.	1 Gal.	24" OC
		Hemerocallis 'Scream Double Classic' / Daylily	Cont.	1 Gal.	24" OC
B1	50	Juncus effusus / Common Rush	Plug	2-1/2"	24" OC
C1	50	Rudbeckia fulgida / Black-Eyed Susan	Cont.	2 Qt.	24" OC

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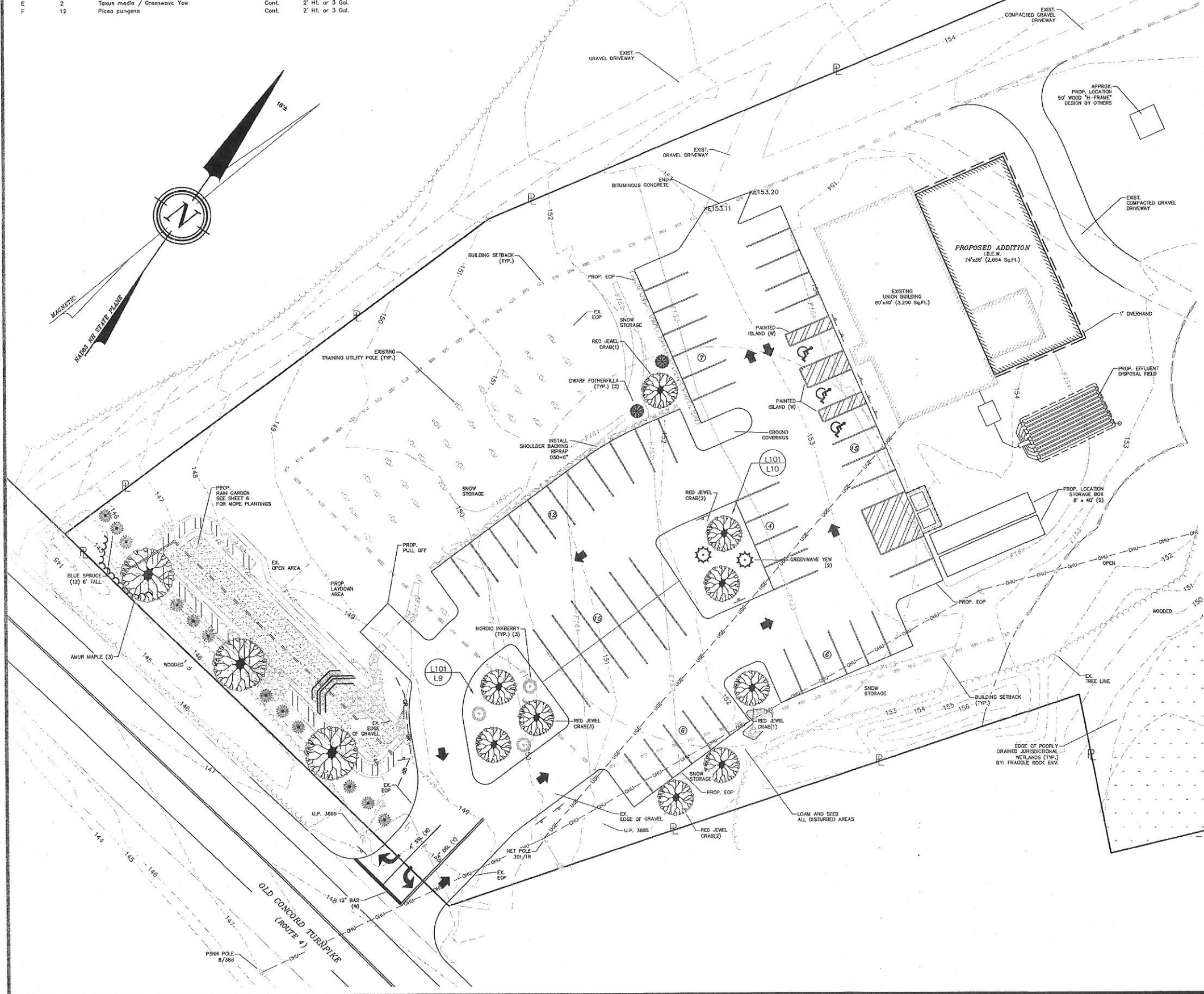
REVISIONS PER TOWN ENGINEER COMMENTS		DATE	REVISION
#1			
10-23-15			

RAIN GARDEN #1 DETAIL
FOR
INT'L BROTHERHOOD OF ELECTRICAL WORKERS
OLD CONCORD TURNPIKE (ROUTE 4)
BARRINGTON, NH 03825
TAX MAP 271, LOT 23

BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 {332-2863}
SCALE: AS NOTED
DATE: SEPTEMBER 9, 2015
FILE NO.: DB 2014-129



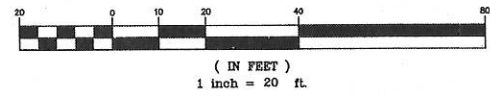
TREES AND SHRUBS (RAIN GARDEN)				
Qty	Botanical Name / Common Name	Root	Size	
7	Morus / Red Jewel Crab	Cont.	2-2.5" Caliper	
3	Acer glabro / Amur Maple	Cont.	2-2.5" Caliper	
2	Fothergilla gardenii / Dwarf Fothergilla	Cont.	2" Ht. or 3 Gal.	
3	Ilex glabra 'Nordic' / Nordic Inkberry	Cont.	2" Ht. or 3 Gal.	
2	Taxus media / Greenwave Yew	Cont.	2" Ht. or 3 Gal.	
12	Picea pungens	Cont.	2" Ht. or 3 Gal.	



NOTES:

- 1.) OWNER: INT'L BROTHERHOOD OF ELECTRICAL WORKERS
- 2.) BARRINGTON TAX MAP 271, LOT 23
- 3.) S.C.R.D BOOK 3552, PAGE 349
- 4.) CALL DIG SAFE PRIOR TO BEGINNING WORK. (1-888-344-7233). THE LANDSCAPE CONTRACTOR IS ADVISED OF THE PRESENCE OF UNDERGROUND UTILITIES AND SHALL VERIFY THE EXISTENCE AND LOCATION OF THE SAME BEFORE COMMENCING AND DIGGING OPERATIONS. THE LANDSCAPE CONTRACTOR SHALL REPLACE OR REPAIR UTILITIES, PAVING, WALKS, CURBING, ETC DAMAGED IN PERFORMANCE OF THIS JOB AT NO ADDITIONAL COST TO THE OWNER OR GENERAL CONTRACTOR.
- 5.) CONTRACTOR SHALL THOROUGHLY FAMILIARIZE THEMSELVES WITH ALL SITE CONDITIONS PRIOR TO CONSTRUCTION BIDDING.
- 6.) PROVIDE SMOOTH TRANSITION WHERE NEW WORK MEETS EXISTING CONDITIONS.
- 7.) ALL PLANT MATERIAL INSTALLED SHALL MEET THE SPECIFICATIONS OF "AMERICAN STANDARD FOR NURSERY STOCK" BY THE AMERICAN ASSOCIATION OF NURSERYMEN
- 8.) ALL PLANT MATERIALS SHALL BE FREE FROM INSECTS AND DISEASE.
- 9.) ALL PLANTINGS SHALL BE DONE IN ACCORDANCE WITH ACCEPTABLE HORTICULTURAL PRACTICES. THIS IS TO INCLUDE PROPER PLANTING MIX, PLANT BED AND TREE PIT PREPARATION, PRUNING STAKING OR GUYING, WRAPPING, SPRAYING, FERTILIZATION, PLANTING AND ADEQUATE MAINTENANCE UNTIL ACCEPTANCE FROM OWNER.
- 10.) ALL GRASS, OTHER VEGETATION AND DEBRIS SHALL BE REMOVED FROM ALL PLANTING AREAS PRIOR TO PLANTING.
- 11.) THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF EXISTING AND NEWLY PLANTED TREES AND SHRUBS DURING THE CONSTRUCTION PROCESS. WHERE REQUIRED, THE CONTRACTOR SHALL INSTALL TEMPORARY FENCING (SNOW OR EQUAL) AROUND EXISTING TREES AND SHRUBS THAT COULD BE IMPACTED BY THE CONSTRUCTION PROCESS. STORAGE OF CONSTRUCTION EQUIPMENT, CONSTRUCTION MATERIALS, SNOW STORAGE AND OR VEHICLE PARKING SHALL NOT BE PERMITTED WITHIN THE DRIP LINE OF TREES OR TWENTY FEET WHICH EVER IS GREATER.
- 12.) NEW PLANTINGS SHALL BE INSTALLED PER PROJECT DRAWINGS AND SPECIFICATION THAT INCLUDE FERTILIZATION AND MULCHING AS REQUIRED.
- 13.) ALL SHRUB BEDS AND TREE PITS SHALL BE MULCHED WITH 4" CLEAN SHREDDED AGED PINEBARK
- 14.) WHERE INDICATED ON PLAN, PLANTING SOIL MIXTURE FOR GROUND COVER AND PERENNIAL BED AREAS SHALL CONSIST OF FOUR PARTS TOPSOIL, TWO PARTS SPAGNUM PEAT MOSS, AND ONE PART HORTICULTURAL PERLITE BY VOLUME. PEAT MOSS MAY BE SUBSTITUTED WITH WELL-ROTTED OR DEHYDRATED MANURE OR COMPOST. ROTOTILL BEDS TO A DEPTH OF 8 INCHES.
- 15.) MAINTENANCE OF NEW PLANTINGS AND LAWNS SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND/OR LANDSCAPE SUBCONTRACTOR UNTIL ACCEPTANCE BY THE OWNER. RESPONSIBILITIES SHALL INCLUDE WATERING WEEDING AND MOWING AS NECESSARY. ALL PLANT MATERIAL SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE. REPLACEMENT MATERIAL SHALL BE GUARANTEED FOR AND ADDITIONAL YEAR FROM TIME OF INSTALLATION.
- 16.) THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL TEMPORARY EROSION CONTROL MEASURES DURING THE CONSTRUCTION PHASE AND UNTIL ALL AREAS HAVE BEEN STABILIZED AND ACCEPTED BY THE OWNER. THE GENERAL CONTRACTOR SHALL PROVIDE WEEKLY INSPECTIONS OF EROSION MEASURES AND IMMEDIATELY AFTER STORM EVENTS AND REPAIR AS NECESSARY.
- 17.) THE GENERAL CONTRACTOR AND OR THE LANDSCAPE SUBCONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL TREE GUYING MATERIAL ONCE PLANT MATERIAL HAS BEEN ESTABLISHED. (MINIMUM OF ONE GROWING SEASON). ALL TEMPORARY EROSION CONTROL MEASURE SHALL BE REMOVED ONCE STABILIZATION OF DISTURBANCE HAS BEEN ACCEPTED BY OWNER.
- 18.) THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR A MINIMUM OF TWO MOWINGS FOR ALL TURF AREAS OR UNTIL ACCEPTANCE BY THE OWNER. A MINIMUM UNIFORM 75% CATCH OF TURF IS REQUIRED FOR ACCEPTANCE.
- 19.) ALL PLANTINGS SHALL BE WATERED REGULARLY DURING THEIR FIRST YEAR AND MAINTAINED PERMANENTLY IN GOOD GROWING CONDITION AS AN EFFECTIVE VISUAL SCREEN.
- 20.) SHRUBS OR TREES WHICH DIE SHALL BE REPLACED WITHIN ONE GROWING SEASON WITH NEW SHRUBS OR TREES TO ENSURE CONTINUED COMPLIANCE WITH APPLICABLE LANDSCAPING REQUIREMENTS.
- 21.) ALL REQUIRED LANDSCAPING SHALL BE INSTALLED BEFORE OCCUPANCY, OR WITHIN SIX MONTHS IF OCCUPANCY OCCURS DURING WINTER CONDITIONS.
- 22.) TREES ARE TO BE 6' TALL AT PLANTING
- 23.) 4" AGED PINEBARK MULCH AND A WEED BARRIER (TY-PAR FABRIC OR APPROVED EQUAL) SHALL BE APPLIED TO ALL SHRUB AND GROUND COVER BEDS. INSTALL WEED BARRIER AS PER MANUFACTURERS RECOMMENDATIONS.
- 24.) PLANT-PIT BACK-FILL SHALL BE MIXED AT A RATE OF 7 PARTS OF TOPSOIL TO 2 PARTS OF DEHYDRATED COW MANURE. SLOW RELEASE FERTILIZER SHALL BE APPLIED AS PER MANUFACTURERS RECOMMENDATIONS. USE EXISTING ON-SITE TOPSOIL AS PART OF BACK-FILL WHEN AVAILABLE.
- 25.) ALL LANDSCAPED AREAS NOT PLANTED WITH TREES, SHRUBS OR GROUNDCOVER SHALL BE RESTORED WITH LOAM AND SEED.
- 26.) TOPSOIL WILL BE TESTED FOR FERTILIZATION REQUIREMENTS, AND SLOW RELEASE ENVIRONMENTALLY FRIENDLY FERTILIZER WILL BE APPLIED AT THE RECOMMENDED RATES.

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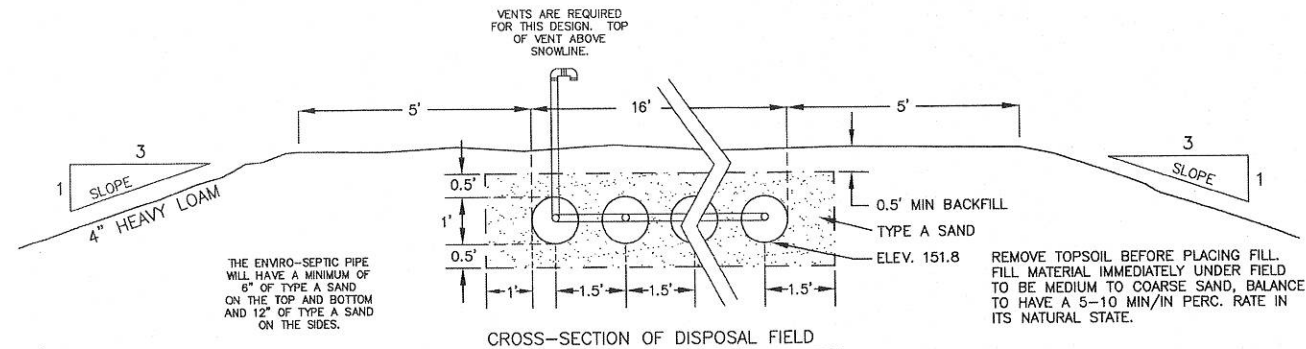


REVISIONS PER TOWN ENGINEER COMMENTS		DATE	DESCRIPTION
#1			
		10-23-15	

LANDSCAPING PLAN
FOR
INT'L BROTHERHOOD OF ELECTRICAL WORKERS
22 OLD CONCORD TURNPIKE (ROUTE 4)
BARRINGTON, NH 03825
TAX MAP 271, LOT 23

BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825 {332-2863}
SCALE : 1 IN. EQUALS 20 FT.
DATE : SEPTEMBER 9, 2015
FILE NO. : DB 2014-129





PROFILE OF SEPTIC SYSTEM

SOILS:

ADB ~ ACTON VERY STONEY FINE SANDY LOAM,
0 TO 8 PERCENT SLOPES
CsB ~ GLOUCESTER VERY STONY FINE SANDY
LOAM, 3 TO 8 PERCENT SLOPES
SuB ~ SUTTON VERY STONY FINE SANDY LOAM,
0 TO 8 PERCENT SLOPES
Wa ~ WHITMAN VERY STONY FINE SANDY LOAM
WdA ~ WINDSOR LOAMY SAND, 0 TO 3
PERCENT SLOPES

SEE WEBSOIL USDA-NRCS

TESTHOLE DATA:

TEST HOLE

0' - 1.0'	10YR 5/4 FINE SANDY LOAM, GRANULAR AND FRIABLE
1.0' - 4.0'	10YR 7/6 FINE SAND, GRANULAR AND SINGLE GRAIN
4.0' - 5.0'	10YR 6/3 FINE SAND, GRANULAR, FIRM IN

S.H.W.T. 4.0'
G.W. NO GROUNDWATER OBSERVED
FINE ROOTS TO 1.5'
PERC. RATE: 4 MIN/INCH

NOTES:

- 1.) OWNER: INT'L BROTHERHOOD OF ELECTRICAL WORKERS
22 OLD CONCORD TURNPIKE
BARRINGTON, NH 03825
- 2.) DESIGNER: KENNETH A. BERRY, PERMIT #125
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825
- 3.) TAX MAP 271, LOT 23
- 4.) LOT AREA: 219,154 Sq.Ft., 5.03 Ac.
- 5.) S.C.R.D. BOOK 3552, PAGE 349
- 6.) SUBDIVISION STATUS: OVER 5 ac.
- 7.) FOUNDATION DRAINS WILL START AT LEAST 15' FROM THE
LEACH FIELD, AND AT LEAST 5' FROM THE SEPTIC TANK.
- 8.) THERE IS NO SURFACE WATER OR VERY POORLY DRAINED
SOILS WITHIN 75', OR POORLY DRAINED SOILS WITHIN 50'
OF THE PROPOSED SEPTIC SYSTEM.
- 9.) THIS DESIGN DOES NOT ALLOW FOR THE USE OF A GARBAGE
GRINDER. IF A GRINDER IS TO BE INCORPORATED A LARGER
SEPTIC TANK WILL BE REQUIRED.
- 10.) THIS DESIGN DOES NOT ALLOW FOR THE ACCEPTANCE OF
WATER TREATMENT BACKWASH. IF A WATER TREATMENT SYSTEM
IS TO BE INCORPORATED A LARGER LEACHFIELD WILL BE
REQUIRED.

CALCULATIONS :

TRAINING SCHOOL - 60 STUDENTS - NO GYM, CAF., OR SHOWERS
BUSINESS OFFICE - 4 EMPLOYEES
TOTAL - 660 GPD
USE 1600 GAL. TWO COMPARTMENT CONCRETE SEPTIC TANK
(FROM A.J. FOSS OR EQUIV.) IN STOCK TANKS APPROVED FOR THIS DESIGN

4 MIN/IN MEASURED PERC RATE
4 MIN/IN DESIGN PERC RATE
310.2' - MIN. LENGTH ADV. ENVIRO SEPTIC PIPE REQUIRED
330' - PROPOSED LENGTH OF ADV. ENVIRO SEPTIC PIPE
33 - TOTAL NUMBER OF 10' SECTIONS OF
ADV. ENVIRO SEPTIC PIPE REQUIRED
11 ROWS OF ADV. ENVIRO SEPTIC PIPE, EACH ROW 30' LONG

ELEVATIONS :

153.8 - HIGH POINT OF LEACH BED
149.8 - S.H.W.T.
N/A - IMPERVIOUS LAYER
151.8 - BOTTOM OF ADV. ENVIRO-SEPTIC PIPES

PLAN INTENT :

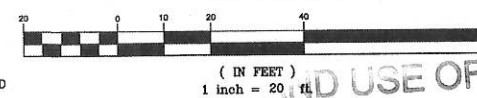
THE SEPTIC SYSTEM IS TO BE CONSTRUCTED WITH THE BOTTOM OF THE LEACH BED 2.0' BELOW THE HIGH POINT OF THE EXISTING LAND.

IN THE EVENT OF LEACH BED FAILURE, IT MAY BE REBUILT IN PLACE WITH NHDES APPROVAL.

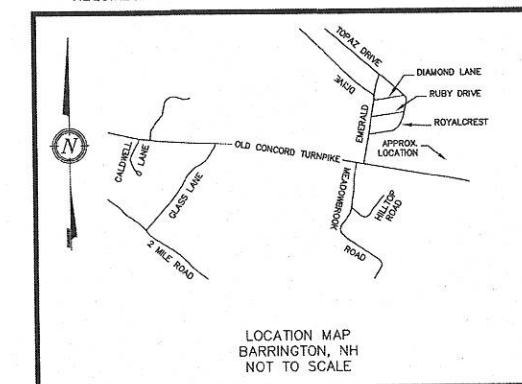
CAUTION !!!!!

ANY DEVIATION FROM THIS PLAN IN GRADE OR LOCATION OF THE SEPTIC SYSTEM WHEN CONSTRUCTED WITHOUT THE APPROVAL OF THE DESIGNER AND NH-DES SUBSURFACE SYSTEMS BUREAU MAY RESULT IN THE FAILURE OF THE SYSTEM TO PASS INSPECTION BY NH-DES SUBSURFACE SYSTEMS BUREAU PRIOR TO OPERATION APPROVAL, OR FUNCTION PROPERLY AND SAFELY.

GRAPHIC SCALE



THE WETLAND DELINEATION WAS COMPLETED NOVEMBER, 2014
IN ACCORDANCE WITH THE 1987 CORP OF ENGINEERS WETLAND
DELINEATION MANUAL. JURISDICTIONAL WETLANDS WERE IDENTIFIED
AND DELINEATED USING THE ROUTINE DETERMINATIONS METHOD
AS OUTLINED IN THE MANUAL. THE DELINEATION WAS DONE BY:
KENNETH A. BERRY, NHDES SUBSURFACE SYSTEMS DESIGNER #125

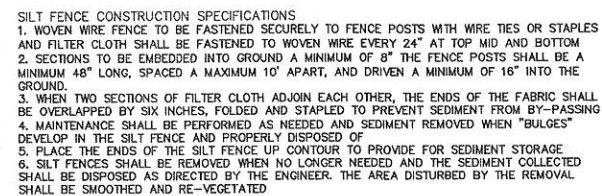


REVISION	DATE	DESCRIPTION
<p>PROPOSED ADVANCED ENVIRO-SEPTIC SYSTEM FOR INT'L BROTHERHOOD OF ELECTRICAL WORKERS 22 OLD CONCORD TURNPIKE (ROUTE 4) BARRINGTON, NH TAX MAP 271, LOT 23</p>		
<div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> <p>NEW HAMPSHIRE Designer of Subsurface Dispose Systems *** Kenneth A. Berry No. 125 Department of Environmental Services</p> </div> <div style="width: 65%;"> <p>BERRY SURVEYING & ENGINEERING 335 SECOND CROWN POINT RD. BARRINGTON, N.H. 332-2863</p> </div> </div> <p>SCALE : 1 IN. EQUALS 20 FT. DATE : SEPTEMBER 9, 2015 FILE NO. : DB 2014 - 129</p>		

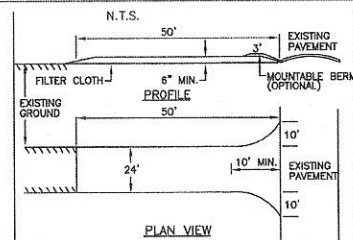
SHEET 9 OF 16

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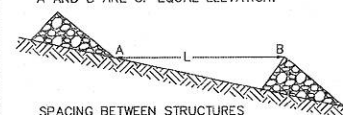


E5 STABILIZED CONSTRUCTION ENTRANCE

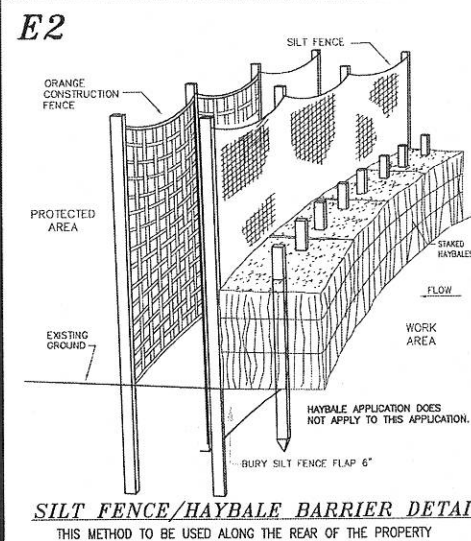
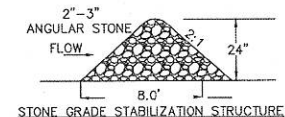
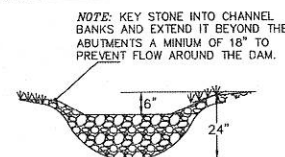


1. STONE FOR A STABILIZED CONSTRUCTION ENTRANCE SHALL BE 1 TO 2 INCH STONE, RECLAIMED STONE, OR RECYCLED CONCRETE EQUIVALENT.
2. THE LENGTH OF THE STABILIZED ENTRANCE SHALL NOT BE LESS THAN 50 FEET, EXCEPT FOR A SINGLE RESIDENTIAL LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY.
3. THE THICKNESS OF THE STONE FOR THE STABILIZED ENTRANCE SHALL NOT BE LESS THAN 6 INCHES.
4. THE WIDTH OF THE ENTRANCE SHALL NOT BE LESS THAN THE FULL WIDTH OF THE ENTRANCE WHERE INGRESS OR EGRESS OCCURS TO OR FROM THE LOT.
5. GEOTEXTILE FILTER SHALL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING THE STONE. FILTER CLOTH IS NOT REQUIRED FOR A SINGLE FAMILY RESIDENT LOT.
6. ALL SURFACE WATER THAT IS FLOWING TO OR DIVERTED TOWARD THE CONSTRUCTION ENTRANCE SHALL BE PIPED BENEATH THE ENTRANCE. IF PIPING IS IMPRACTICAL, A BERM WITH 5:1 SLOPES THAT CAN BE CROSSED BY FOOTSTEPS MUST BE MAINTAINED.
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 DESIGNED TO TRAP SEDIMENT. SEDIMENT, SPILL, WASHED, OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED PROMPTLY.

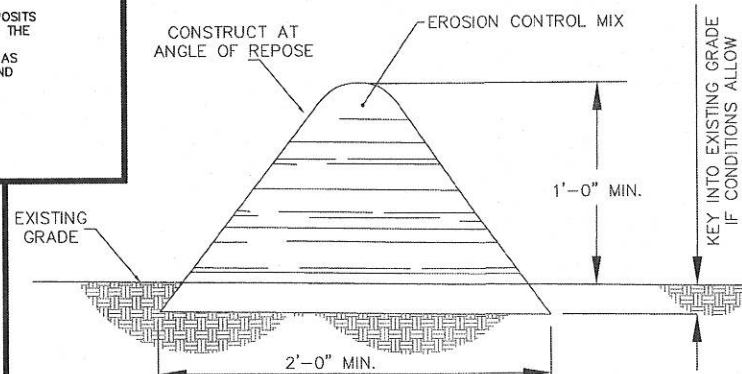
L = THE DISTANCE SUCH THAT POINTS
A AND B ARE OF EQUAL ELEVATION.



- 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 THAN 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.



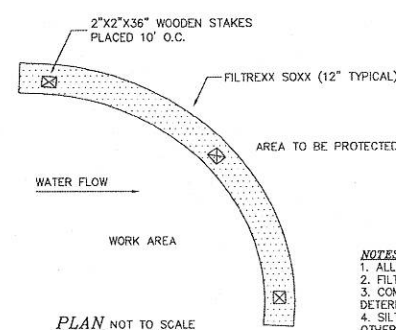
E6 EROSION CONTROL MIX BERM



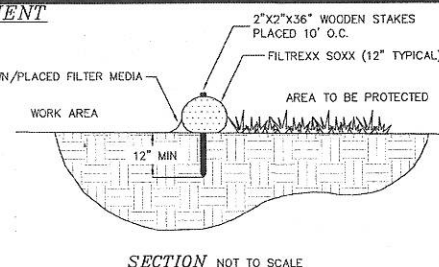
EROSION CONTROL MIX. BERMS SHALL BE USED ONLY AS FOLLOWS:

- (A) 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.
- (B) THE BERMS SHALL BE INSTALLED FOLLOWING THE CONTOUR OF THE LAND AS CLOSELY AS POSSIBLE.
- (C) THE BERMS SHALL BE INSTALLED ON SLOPES LESS THAN 5%.
- (D) 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, SHREDDED BARK OR EQUIVALENT MANUFACTURED PRODUCTS. WOOD AND BARK CHIPS, GROUND CONSTRUCTION DEBRIS, OR REPROCESSED WOOD PRODUCTS SHALL NOT BE USED AS ORGANIC MATERIAL.
- (F) THE MIX SHALL NOT CONTAIN SILTS, CLAY, OR FINE SANDS.
- (G) 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 .075-INCH SCREEN.
- (H) THE MIX PH SHALL BE BETWEEN 5.0 AND 8.0.
- (I) THE BERM SHALL BE AT LEAST 12 INCHES HIGH AND AT LEAST 2 FEET WIDE.

E10

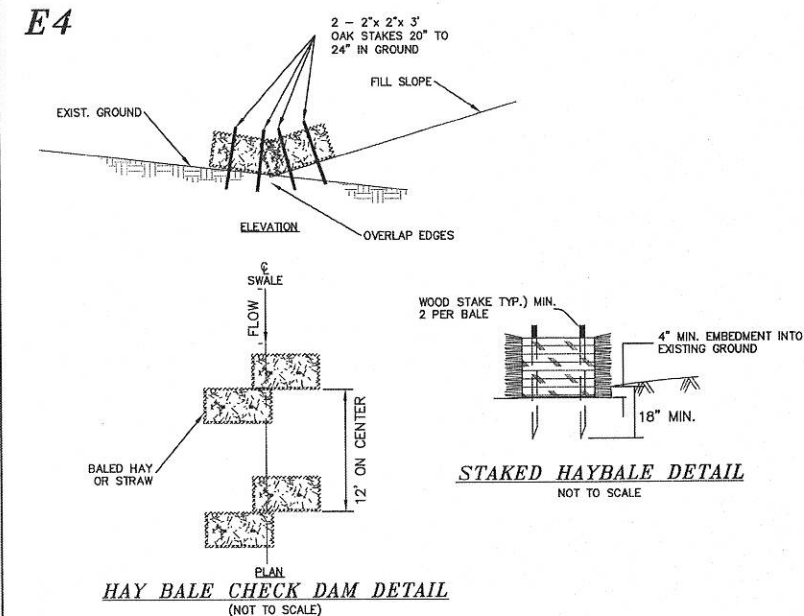


FILTREXX SEDIMENT
CONTROL
NOT TO SCALE



- 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. SILT/SOXX MAY BE USED IN PLACE OF SILT FENCE OR OTHER SEDIMENT BARRIERS.
 5. SILT/SOXX 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 FILTRESS INTERNATIONAL, LLC.

Filtrex International, LLC
35481 Grafton Eastern Rd | Grafton, On 44044
440-926-2607 | fax: 440-926-4021
WWW.FILTREX.COM



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 E102)
- 3a. ALL DISTURBED AREAS WILL BE RESTABILIZED WITHIN 60 DAYS. AT ANY ONE TIME, NO MORE THAN 5 ACRES, (217,800 Sq. Ft.) WILL BE DISTURBED.
4. SILT FENCES AND STRAW OR HAY BALES 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.
5. AFTER ALL DISTURBED AREAS HAVE BEEN STABILIZED, THE TEMPORARY EROSION CONTROL MEASURES ARE TO BE REMOVED AND THE AREA DISTURBED BY THE REMOVAL SMOOTHED AND RE-VEGETATED
6. PER THE EPA REQUIREMENTS THERE WILL BE A LOG OF THE EROSION CONTROL INSPECTIONS EVERY 7-14 DAYS
PLEASE FIND SWPPP PREPARED BY BS&E (AFTER LOCAL APPROVAL)
7. DITCHES, SWALES, AND BASINS SHALL BE STABILIZED PRIOR TO DIRECTING RUNOFF TO THEM.
8. ALL EROSION CONTROLS SHALL BE INSPECTED WEEKLY AND WITHIN 24 HOURS AFTER 0.5" OR GREATER RAIN EVENT

E11

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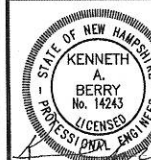
#1	10-23-15	REVISIONS PER TOWN ENGINEER COMMENTS
		DESCRIPTION

SEDIMENT AND EROSION CONTROL DETAILS

INT'L BROTHERHOOD OF ELECTRICAL WORKERS
 22 OLD CONCORD TURNPIKE (ROUTE 4)
 BARRINGTON, NH 03825
 TAX MAP 271, LOT 23

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

SCALE :	AS MARKED
DATE :	SEPTEMBER 9, 2015
FILE NO. :	DB 2014-129

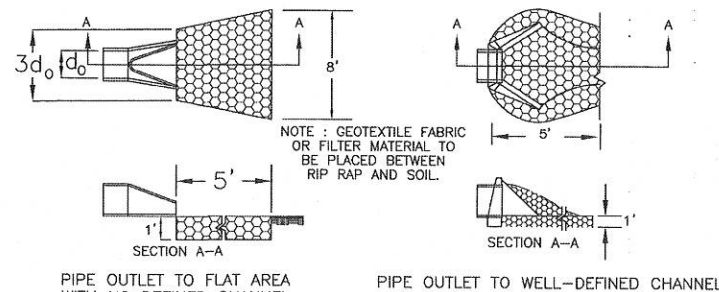


SHEET 11 OF 16

E12

E13

PIPE OUTLET PROTECTION

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.

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	

E16

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.

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.

SEEDING RATES

MIXTURE	POUNDS PER ACRE	POUNDS PER 1,000 S.F.
A. TALL FESCUE	30	0.45
CREeping RED FESCUE	20	0.30
RED TOP	10	0.15
TOTAL	60	0.90
B. TALL FESCUE	15	0.225
CREeping RED FESCUE	10	0.15
GROWN VETCH	15	0.225
FLAT PEA	20	0.30
TOTAL	60	0.90
C. TALL FESCUE	24	0.36
CREeping RED FESCUE	24	0.36
BIRDS FOOT TREFOL	12	0.18
TOTAL	60	0.90
D. TALL FESCUE	20	0.30
FLAT PEA	20	0.30
TOTAL	40	0.60
E. CREeping RED FESCUE 1/2	50	0.75
KENTUCKY BLUEGRASS 1/2	100	1.50
TOTAL	150	2.25
F. TALL FESCUE 1	150	2.25

SEEDING GUIDE

USE	SEEDING MIXTURE 1/	DROUGHTY	WELL DRAINED	MODERATELY WELL DRAINED	POORLY DRAINED
DEEP CUTS AND FILL, BORROW AND DISPOSAL AREAS	A	POOR	GOOD	GOOD	FAIR
WATERWAYS, EMERGENCY SPILLWAYS, AND OTHER CHANNELS WITH FLOWING WATER	B	POOR	GOOD	GOOD	FAIR
LIGHTLY USED PARKING LOTS, LOT AREAS, UNPAVED LOTS, AND LOW INTENSITY USE RECREATION SITES	C	FAIR	GOOD	GOOD	FAIR
PLAY AREAS AND ATHLETIC FIELDS (TOPSOIL IS ESSENTIAL FOR GOOD TURF)	D	FAIR	GOOD	GOOD	FAIR
GRAVEL PIT, SEE NH-PW-24 IN APPENDIX FOR RECOMMENDATION REGARDING RECLAMATION OF SAND AND GRAVEL PITS.	E	FAIR	GOOD	GOOD	FAIR
1/ REFER TO SEEDING MIXTURES AND RATES IN TABLE 7-24					
2/ POORLY DRAINED SOILS ARE NOT DESIRABLE FOR USE AS PLAYING AREA AND ATHLETIC FIELDS.					

CONSERVATION MIX	POUNDS PER ACRE	POUNDS PER 1,000 S.F.
RED FESCUE (35%)	75	1.125
TALL FESCUE (25%)	55	0.825
ANNUAL RYEGRASS (12%)	33	0.495
PERENNIAL RYEGRASS (10%)	26	0.39
KENTUCKY BLUEGRASS (10%)	22	0.33
WHITE CLOVER (3%)	7	0.105

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 SEED 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.

DEFINITION OF STABLE:

1. WHEN A BASE COURSE GRAVEL HAS BEEN INSTALLED IN AN AREA TO BE PAVED
2. WHEN A MINIMUM OF 85% VEGETATIVE GROWTH OCCURS
3. WHEN A MINIMUM OF 3" OF NON-EROSIVE MATERIAL, SUCH AS STONE OR RIP-RAP HAS BEEN INSTALLED.
4. WHEN PROPER EROSION CONTROL BLANKETS, SUCH AS CURLEX II, C350 OR OTHER DOT APPROVED MATTING, HAS BEEN INSTALLED PROPERLY.
5. HAY MULCH OR OTHER APPROVED METHODS SHALL BE USED TO CONTROL EROSION OF NEWLY GRADED AREAS. ALL CUT AND FILL SLOPES SHALL BE SEED AND MULCHED WITHIN 72 HOURS AFTER THEIR CONSTRUCTION.

E22

E21

CONSTRUCTION SEQUENCE:

1. CUT AND REMOVE TREES IN CONSTRUCTION AREA ONLY AS REQUIRED
2. CONSTRUCT AND/OR INSTALL TEMPORARY AND PERMANENT SEDIMENT EROSION AND DETENTION CONTROL FACILITIES AS REQUIRED.
3. EROSION, SEDIMENT AND DETENTION CONTROL FACILITY SHALL BE INSTALLED & STABILIZED PRIOR TO ANY EARTH MOVING OPERATION & OR DIRECTING RUNOFF TO THEM.
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. INSTALL PIPE AND CONSTRUCTION ASSOCIATED APPURTENANCES AS REQUIRED OR DIRECTED. INSTALL RAIN GARDENS. ALL DISTURBED AREAS SHALL STABILIZED IMMEDIATELY AFTER GRADING.
8. BEGIN PERMANENT AND TEMPORARY SEEDING AND MULCHING. ALL CUT AND FILL SLOPES AND DISTURBED AREAS SHALL BE SEED OR MULCHED AS REQUIRED, OR DIRECTED. NO AREA IS ALLOWED TO BE DISTURBED FOR A LENGTH OF TIME THAT EXCEEDS 60 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.
9. CONSTRUCT TEMPORARY BERMS, DRAINS, DITCHES, SILT FENCES, SEDIMENT TRAPS, ETC. MULCH AND SEED AS REQUIRED.
10. INSPECT AND MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES DURING CONSTRUCTION
11. COMPLETE PERMANENT SEEDING AND LANDSCAPING.
12. REMOVE TEMPORARY EROSION CONTROL MEASURES AFTER SEEDING AREAS HAVE ESTABLISHED THEMSELVES AND SITE IMPROVEMENTS ARE COMPLETE.
13. SMOOTH AND REVEGETATE ALL DISTURBED AREAS.
14. FINISH PAVING ALL ROADWAYS

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E-102

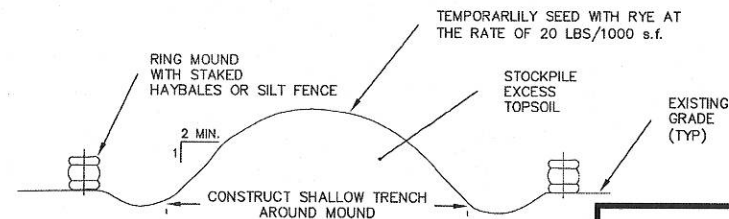
STATE OF NEW HAMPSHIRE
KENNETH A. BERRY
No. 14243
LICENSED PROFESSIONAL ENGINEER

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

SCALE: AS MARKED
DATE: SEPTEMBER 9, 2015
FILE NO.: DB 2014-129

SEDIMENT AND EROSION CONTROL DETAILS
INT'L BROTHERHOOD OF ELECTRICAL WORKERS
22 OLD CONCORD TURNPIKE (ROUTE 4)
BARRINGTON, NH 03825
TAX MAP 271, LOT 23

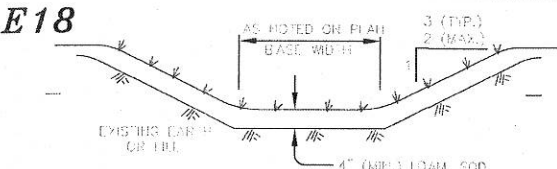
E15



TOPSOIL STOCKPILE MOUND

NOT TO SCALE

E18



GRASS TREATMENT 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".

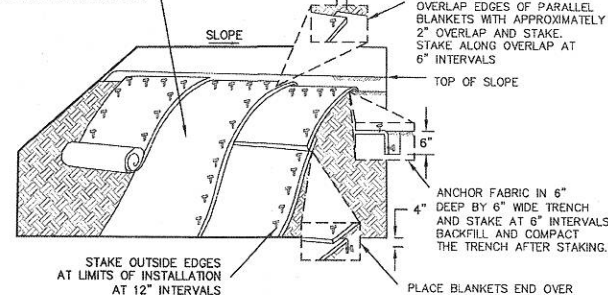
INSTALL STABILIZATION MATTING DURING CONSTRUCTION

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(P205), 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.)
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 ON-SITE 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.

SEEDING SPECIFICATIONS

E20

EROSION CONTROL MAT OR TURF REINFORCEMENT MAT



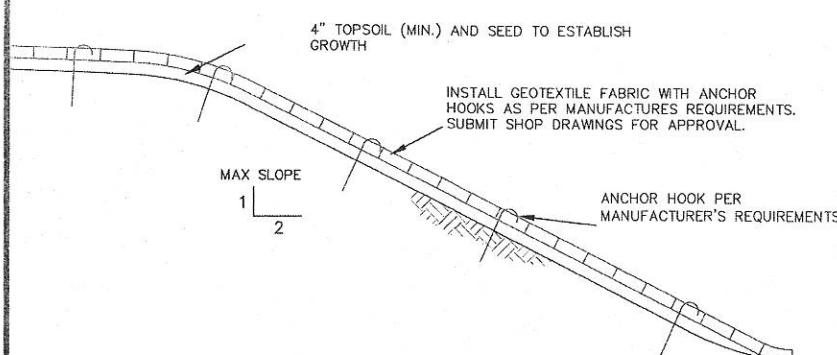
NOTE: STAKING PATTERNS SHALL FOLLOW MANUFACTURERS RECOMMENDATIONS.

MINIMUM SPACING 3' - 0" O.C. ACROSS FABRIC.

INSTALLATION OF EROSION CONTROL FABRICS

NOT TO SCALE

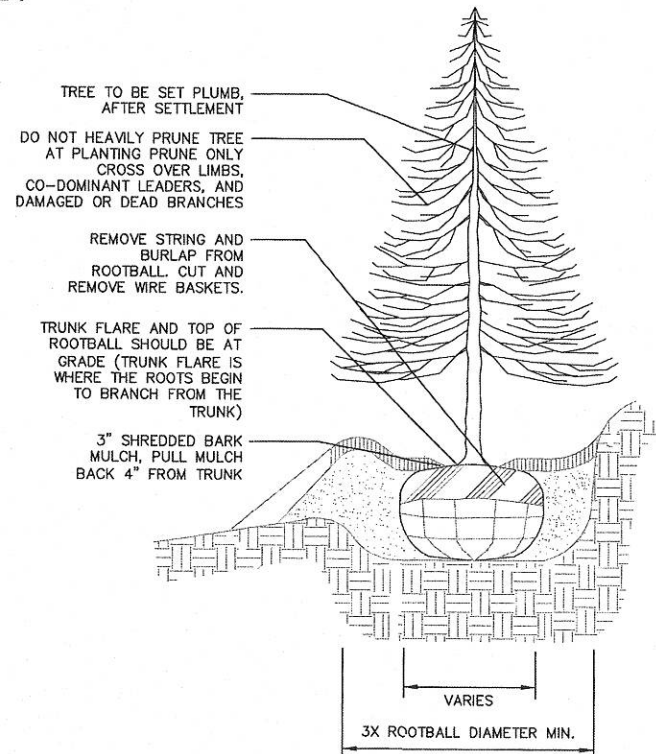
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SLOPE STABILIZATION DETAIL

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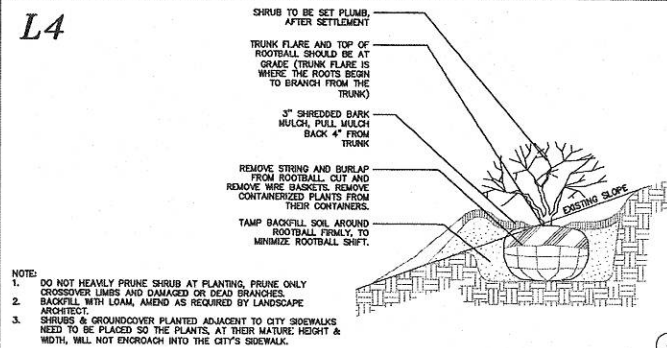
L1



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

EVERGREEN TREE PLANTING

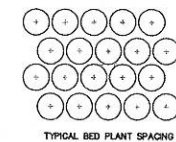
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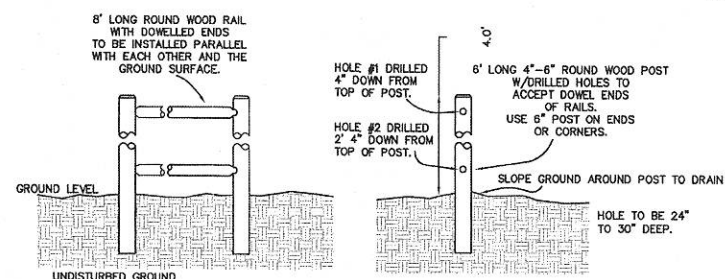
TYPICAL SHRUB PLANTING

12\"/>

TYPICAL PERENNIAL PLANTING

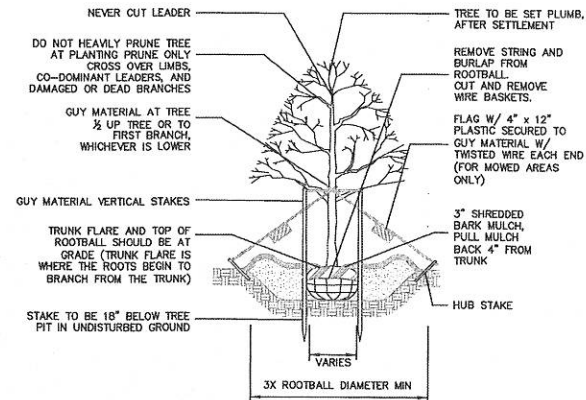


NOTE:
D = DIMENSION OF PLANT SPACING (SHRUB OR
GROUND COVER AS INDICATED ON PLANS)

TYPICAL POST & RAIL FENCE DETAIL
N.T.S.

L7

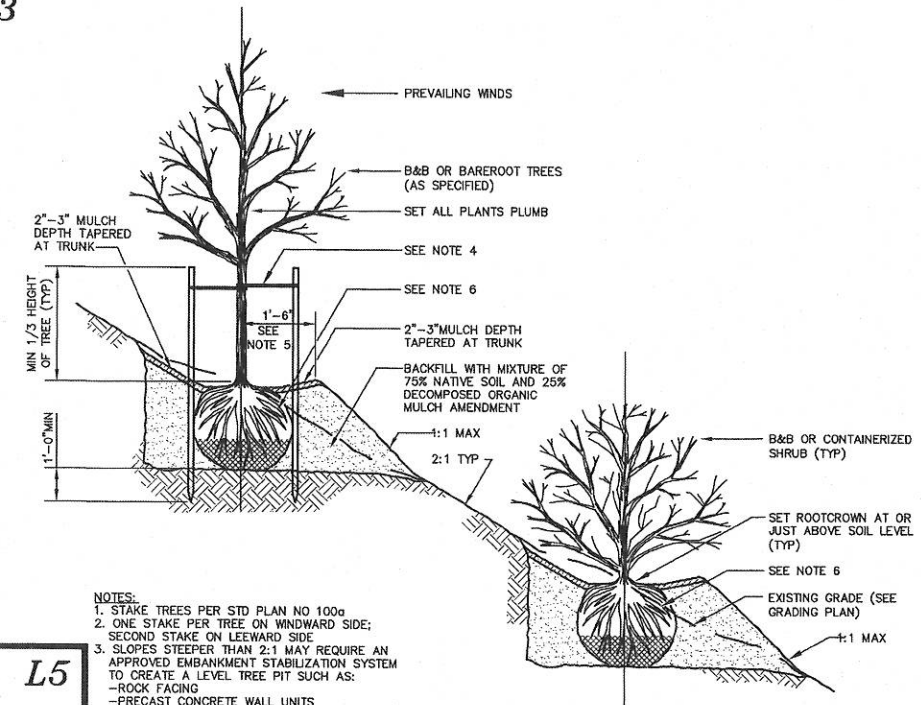
L2



- NOTES:
- GUYING AND STAKING TO BE DETERMINED IN THE FIELD BY THE LANDSCAPE ARCHITECT. LOCAL FIELD CONDITIONS AS WELL AS PLANT CHARACTERISTICS WILL DETERMINE THE NECESSITY OF GUYING AND STAKING.
 - TYPICALLY ONLY TREES WITH A 3\"/>

DECIDUOUS TREE PLANTING

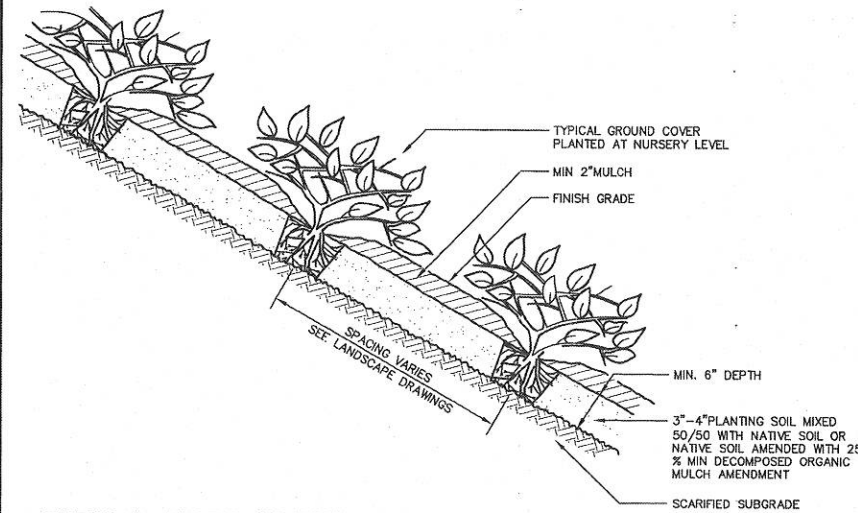
L3



- NOTES:
- STAKE TREES PER STD PLAN NO 1000.
 - ONE STAKE PER TREE ON WINDWARD SIDE; SECOND STAKE ON LEeward SIDE.
 - SLOPES STEEPER THAN 2:1 MAY REQUIRE AN APPROVED EMBANKMENT STABILIZATION SYSTEM TO CREATE A LEVEL TREE PIT SUCH AS:
- ROCK FACING
- PRECAST CONCRETE WALL UNITS
- TIMBER WALL
- MANUFACTURED SLOPE RETENTION UNITS
 - CHAINLOCK TREE TIE. LOOP EACH TIE AROUND TREE LOOSELY TO PROVIDE 1\"/>

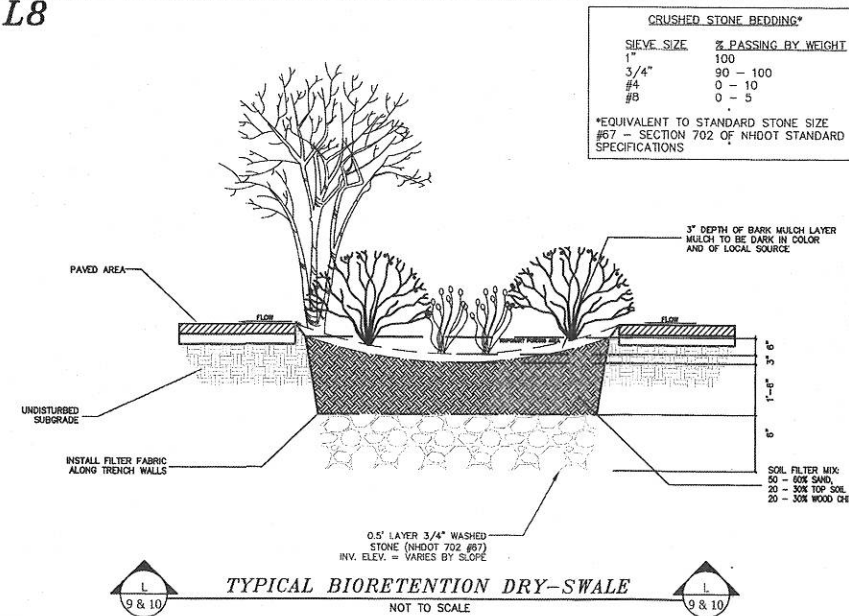
TREE PLANTING ON SLOPES

L5



TYPICAL SLOPE GROUND COVER PLANTINGS

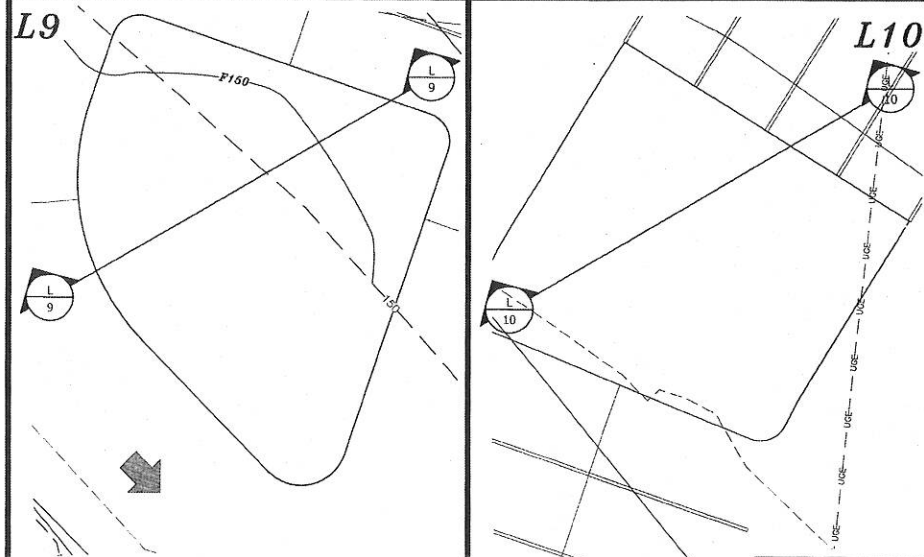
L8



TYPICAL BIORETENTION DRY-SWALE

NOT TO SCALE

L9



BIORETENTION SWALE CROSS SECTION

SEE DETAIL L8

NOT TO SCALE

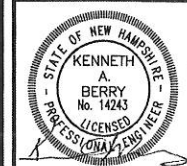
L10

L-101

REVISION	DATE	DESCRIPTION
#1	10-23-15	REVISIONS PER TOWN ENGINEER COMMENTS

LANDSCAPING DETAILS
LAND OF
INT'L BROTHERHOOD OF ELECTRICAL WORKERS
22 OLD CONCORD TURNPIKE (ROUTE 4)
BARRINGTON, NH 03825
TAX MAP 277, LOT 23

BERRY SURVEYING
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335 SECOND CROWN POINT ROAD
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SHEET 16 OF 16