

RESIDENTIAL SITE PLAN

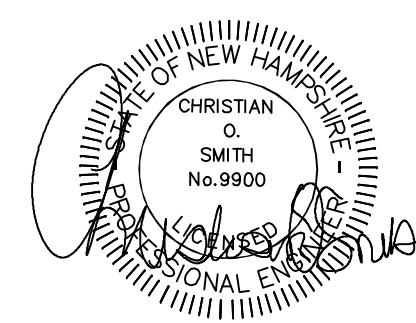
242 SOUTH MAIN ST.

TAX MAP U4, LOT 69

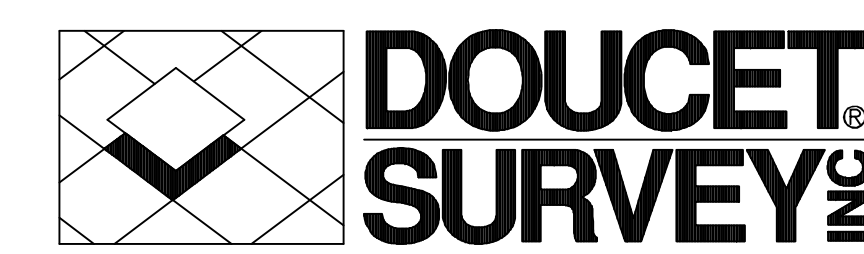
CIVIL ENGINEERS:



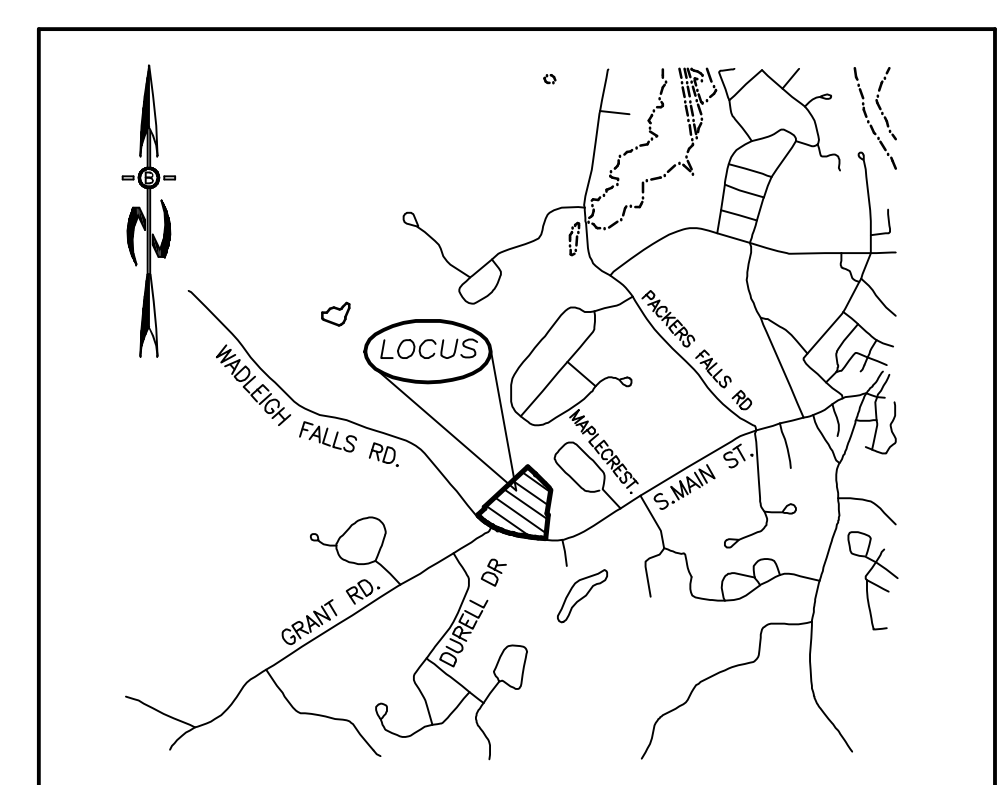
70 PORTSMOUTH AVE,
THIRD FLOOR, SUITE 2
STRATHAM, N.H. 03885
PHONE: 603-583-4860,
FAX: 603-583-4863



LAND SURVEYOR:



Serving Your Professional Surveying & Mapping Needs
102 Kent Place, Newmarket, NH 03857-0163
Voice (603) 659-6560, Data (603) 659-4118



LOCATION MAP

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LANDSCAPE ARCHITECT

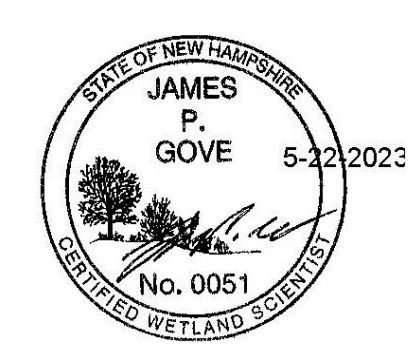
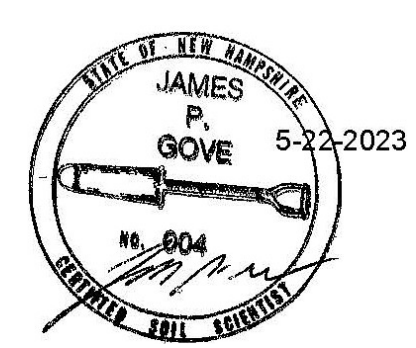


103 Kent Place
Newmarket, NH 03857
603.659.5949

www.woodburnandcompany.com
www.houzz.com/pro/robwoodburn

WETLAND / SOIL CONSULTANT:

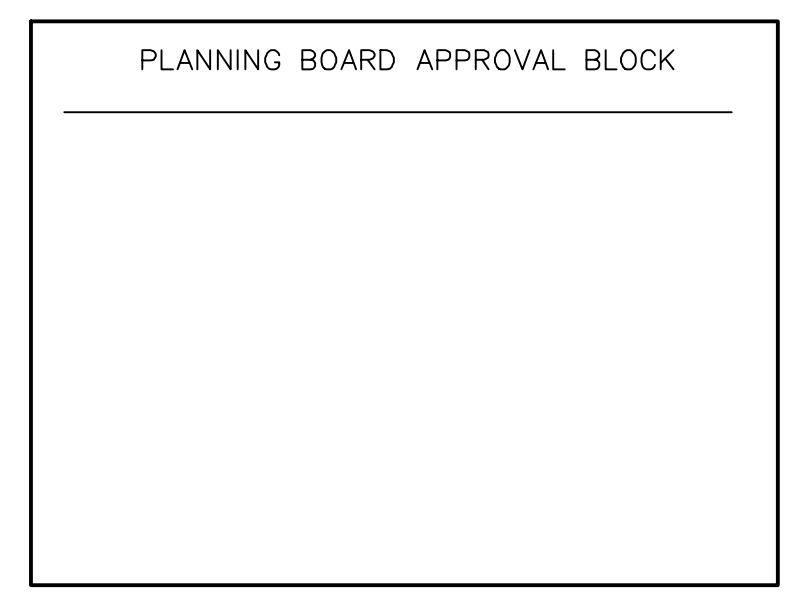
GOVE ENVIRONMENTAL SERVICES INC.
8 CONTINENTAL DRIVE,
BLDG 2 UNIT H
EXETER, NH 03833
1-603-778-0644



PLAN SET LEGEND

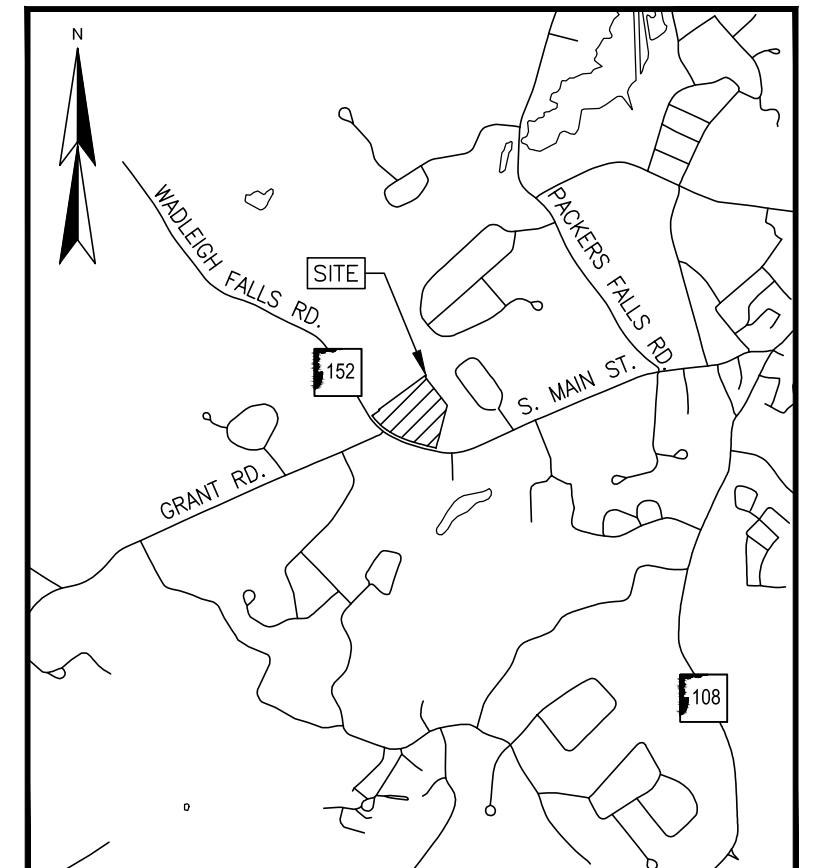
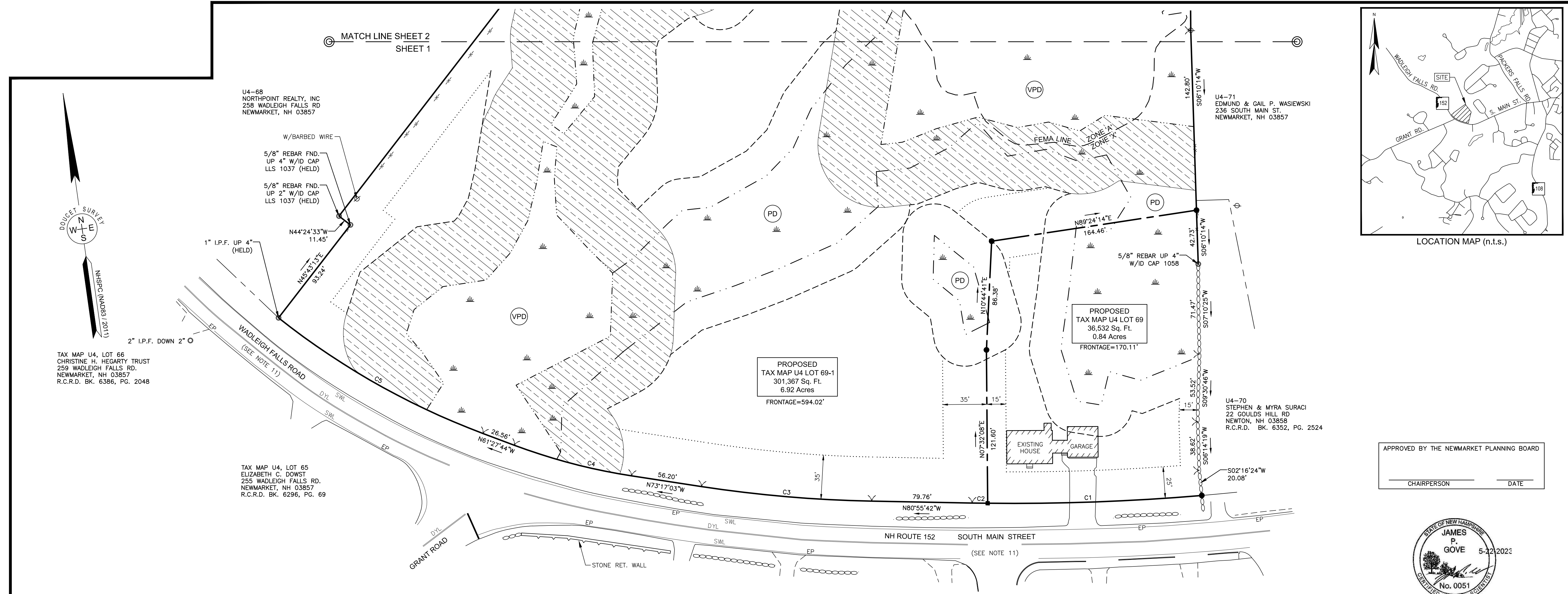
5/8" REBAR	●	UNDERGROUND ELEC. LINE	— UGE —
DRILL HOLE	○	OVERHEAD ELEC. LINE	— OHE —
CONC. BOUND	□	DRAINAGE LINE	— D —
UTILITY POLE	⊕	SEWER LINE	— S —
DRAIN MANHOLE	⊙	WATER LINE	— W —
SEWER MANHOLE	⊗	STONE WALL	— — — — —
EXISTING LIGHT POLE	☆	TREE LINE	— — — — —
WATER SHUT OFF	⊙	ABUT. PROPERTY LINES	— — — — —
PINES, ETC.	⊙	EXIST. PROPERTY LINES	— — — — —
MAPLES, ETC.	⊙	BUILDING SETBACK LINES	— — — — —
PROP. SPOT GRADE	96x69	EXIST. CONTOUR	— — — — —
SINGLE POST SIGN	⊕	PROP. CONTOUR	— — — — —
TEST PIT W/NO.	⊕	SOIL LINES	— — — — —
		SILT FENCING	— — — — —

OWNER/APPLICANT:
DR LEMIEUX BUILDERS, INC.
76 EXETER ROAD
NEWMARKET, NH 03857

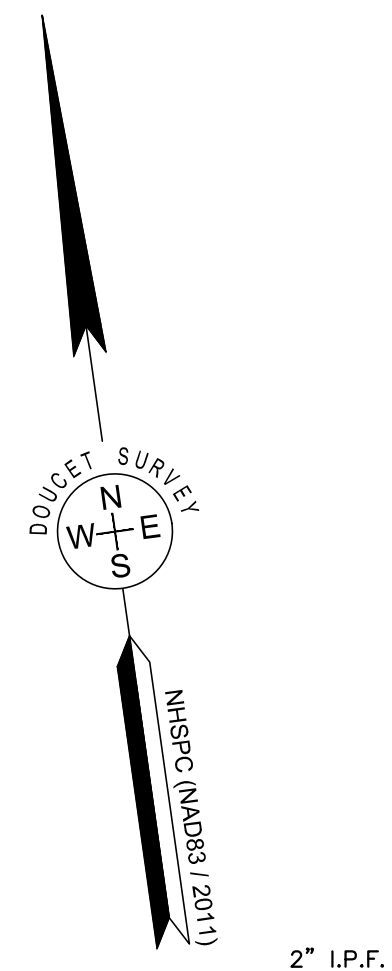


REQUIRED PERMITS
NHDES SEWER EXTENSION #
NHDES DW/GW PERMIT #
LOCAL DRIVEWAY PERMIT #

REVISED PER PLANNING BOARD COMMENTS	11-17-23
REVISIONS PER REVIEW COMMENTS	10-18-23
REVISIONS PER REVIEW COMMENTS	8-16-23



LOCATION MAP (n.t.s.)



TAX MAP U4, LOT 66
CHRISTINE H. HEGARTY TRUST
259 WADLEIGH FALLS RD.
NEWMARKET, NH 03857
R.C.R.D. BK. 6386, PG. 2048

U4-68
NORTHPOINT REALTY, INC
258 WADLEIGH FALLS RD
NEWMARKET, NH 03857

TAX MAP U4, LOT 65
ELIZABETH C. DOWST
255 WADLEIGH FALLS RD.
NEWMARKET, NH 03857
R.C.R.D. BK. 6296, PG. 69

PROPOSED
TAX MAP U4 LOT 69-1
301,367 Sq. Ft.
6.92 Acres
FRONTAGE=594.02'

PROPOSED
TAX MAP U4 LOT 69
36,532 Sq. Ft.
0.84 Acres
FRONTAGE=170.11'

U4-71
EDMUND & GAIL P. WASIEWSKI
236 SOUTH MAIN ST.
NEWMARKET, NH 03857

U4-70
STEPHEN & MYRA SURACI
22 GOULDS HILL RD
NEWTON, NH 03858
R.C.R.D. BK. 6352, PG. 2524

TAX MAP R5, LOT 93
GENE & CHRISTINA CONNOLLY
1 GRANT DR.
NEWMARKET, NH 03857-2102
R.C.R.D. BK. 5306, PG. 1118

TAX MAP U4, LOT 57
LINDA DOSHER REV. TRUST
PO BOX 242
NEWMARKET, NH 03857
R.C.R.D. BK. 5516, PG. 2526

TAX MAP U4, LOT 56
AGATHA A. HALLIDAY
247 SOUTH MAIN ST.
NEWMARKET, NH 03857
R.C.R.D. BK. 5658, PG. 1782

TAX MAP U4, LOT 55
DEREK ARTHUR & THORA CONRAD
245 SOUTH MAIN ST.
NEWMARKET, NH 03857
R.C.R.D. BK. 6055, PG. 508

TAX MAP R5, LOT 95
NEWMARKET SCHOOL DISTRICT
186 A MAIN ST.
NEWMARKET, NH 03857

TAX MAP U4, LOT 54
GARY M. MASTIN REV. TRUST
15 CAROLYN DR.
NEWMARKET, NH 03857-1004
R.C.R.D. BK. 4411, PG. 2552

TAX MAP U4, LOT 53
NEWMARKET SCHOOL DISTRICT
239 SOUTH MAIN ST.
NEWMARKET, NH 03857
R.C.R.D. BK. 5735, PG. 1664

APPROVED BY THE NEWMARKET PLANNING BOARD
CHAIRPERSON _____ DATE _____



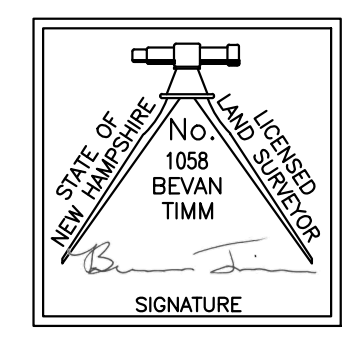
- NOTES:
- REFERENCE: TAX MAP U4, LOT 69
 - EXISTING LOT AREA: 337,899 SQ. FT. OR 7.76 AC.
 - OWNER OF RECORD: D.R. LEMIEUX BUILDERS, LLC
76 EXETER ROAD
NEWMARKET, NH 03857
R.C.R.D. BOOK 6439, PAGE 1906
 - ZONE: R-2
DIMENSIONAL REQUIREMENTS:
MIN. LOT AREA 21,780 sq.ft. OR 0.5 AC.
MIN. FRONTAGE 100 ft.
FRONT SETBACK 25 ft. - SINGLE RESIDENCE 35 ft. - AGE-RESTRICTED HOUSING
SIDE/REAR SETBACK 15 ft. - SINGLE RESIDENCE 35 ft. - AGE-RESTRICTED HOUSING
MAX. BUILDING HEIGHT 35 ft.
MAX. BUILDING COVERAGE -- %
WETLAND SETBACKS
POORLY DRAINED 25 ft.
VERY POORLY DRAINED 50 ft.
 - ZONING INFORMATION LISTED HEREON IS BASED ON THE TOWN OF NEWMARKET ZONING ORDINANCE DATED 12/08/2020 AS AVAILABLE ON THE TOWN WEBSITE ON 05/17/2023. ADDITIONAL REGULATIONS APPLY, AND REFERENCE IS HEREBY MADE TO THE EFFECTIVE ZONING ORDINANCE. THE LAND OWNER IS RESPONSIBLE FOR COMPLYING WITH ALL APPLICABLE MUNICIPAL, STATE AND FEDERAL REGULATIONS
 - FIELD SURVEY PERFORMED BY DOUCET SURVEY DURING AUGUST, SEPTEMBER, AND OCTOBER 2022 USING A TRIMBLE S5 TOTAL STATION AND A TRIMBLE R10 SURVEY GRADE GPS WITH A TRIMBLE TSC3 DATA COLLECTOR AND A TRIMBLE DINI DIGITAL LEVEL. TRAVERSE ADJUSTMENT BASED ON LEAST SQUARE ANALYSIS.
 - HORIZONTAL DATUM BASED ON NAD83(2011) NEW HAMPSHIRE STATE PLANE COORDINATE ZONE (2800) DERIVED FROM REDUNDANT GPS OBSERVATIONS UTILIZING THE KEYNET GPS VRS NETWORK.
 - JURISDICTIONAL WETLANDS DELINEATED BY JAMES P. GOVE, CWS 051, CSS 004 OF GOVE ENVIRONMENTAL SERVICES, INC. DURING AUGUST 2022 ACCORDING TO THE:
•US ARMY COPRS OF ENGINEERS WETLANDS DELINEATION MANUAL, TECHNICAL REPORT Y-87-1 (JAN 1987).
•REGIONAL SUPPLEMENT TO THE CORPS OF ENGINEERS WETLAND DELINEATION MANUAL: NORTHCENTRAL AND NORTHEAST REGION, VERSION 2.0, JANUARY 2012.
•FIELD INDICATORS FOR IDENTIFYING DYDRIC SOILS IN NEW ENGLAND, VERSION 4, NEW ENGLAND HYDRIC SOILS TECHNICAL COMMITTEE.
 - PRIME WETLANDS SHOWN HEREON BASED ON "TOWN OF NEWMARKET, NH PRIME WETLANDS MAP 2: NORTH-CENTRAL SECTION" PRODUCED BY THE TOWN OF NEWMARKET MARCH 24, 2004 UPDATED BY STRAFFORD RPC JANUARY 8, 2013.

- FLOOD HAZARD ZONE: "X" & "A", PER FIRM MAP #33015C0230F, DATED 1/29/2021.
 - THE INTENT OF THIS PLAN IS TO SHOW THE LOCATION OF BOUNDARIES IN ACCORDANCE WITH AND IN RELATION TO THE CURRENT LEGAL DESCRIPTION, AND IS NOT AN ATTEMPT TO DEFINE UNWRITTEN RIGHTS, DETERMINE THE EXTENT OF OWNERSHIP, OR DEFINE THE LIMITS OF TITLE.
 - SOUTH MAIN STREET/WADLEIGH FALLS ROAD (ROUTE 152) RIGHT OF WAY IS FOUR RODS (66') IN WIDTH, SEE S.R. SHEET 5-49 (BOOK 18, PAGE 849) ON FILE AT THE STATE OF NEW HAMPSHIRE ARCHIVES. THE RIGHT OF WAY AS SHOWN HEREON IS BASED ON THE EXISTING CENTERLINE AND MONUMENTS FOUND IN THE FIELD.
 - DUE TO THE COMPLEXITY OF RESEARCHING ROAD RECORDS AS A RESULT OF INCOMPLETE, UNORGANIZED, INCONCLUSIVE, OBLITERATED, OR LOST DOCUMENTS, THERE IS AN INHERENT UNCERTAINTY INVOLVED WHEN ATTEMPTING TO DETERMINE THE LOCATION AND WIDTH OF A ROADWAY RIGHT OF WAY. THE EXTENT OF (THE ROAD) AS DEPICTED HEREON IS BASED ON RESEARCH CONDUCTED AT THE TOWN OF NEWMARKET, THE STATE OF NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION AND ROCKINGHAM COUNTY REGISTRY OF DEEDS.
 - FINAL MONUMENTATION MAY BE DIFFERENT THAN THE PROPOSED MONUMENTATION SHOWN HEREON. DUE TO THE FACT THAT SITE CONDITIONS WILL DICTATE THE ACTUAL LOCATION AND TYPE OF MONUMENTS INSTALLED IN THE FIELD. PLEASE REFER TO EITHER THE "MONUMENTATION LOCATION PLAN" TO BE RECORDED OR CONTACT DOUCET SURVEY. FOR CLARIFICATION OF MONUMENTS SET. (A RECORDED PLAN WILL BE PRODUCED AT THE DISCRETION OF DOUCET SURVEY).
- REFERENCE PLANS:
- "D.W. HOYT DEVELOPMENT MAPLECREST NEWMARKET - N.H." DATED OCTOBER 4, 1951 BY H.V. SHEAHAN C.E. R.C.R.D. PLAN 01752.
 - "D.W. HOYT HOUSING PROJECT 30 MAIN STREET NEWMARKET - N.H." DATED JULY 1951 BY H.V. SHEAHAN R.C.R.D. PLAN 01753.
 - "TAX MAP U-2 LOT 68 CONDOMINIUM SITE PLAN 258 WADLEIGH FALLS RD., A-B 258 WADLEIGH FALLS FALLS ROAD NEWMARKET, NEW HAMPSHIRE COUNTY OF ROCKINGHAM OWNED BY NORTHPOINT REALTY, INC." DATED MAY 28, 2021 REVISED 6/7/2021 AND 7/20/2021 BY TMORAN R.C.R.D. PLAN D-42885.
 - "SUBDIVISION OF LAND OF JOHN CARPENTER IN NEWMARKET N.H." DATED 11/5/76 BY MOULTON ENGINEERING CO. R.C.R.D. PLAN D-6451.
 - "SUBDIVISION PLAN FOR AMERICAN LAND DEVELOPMENT INC. WOOD HAVEN PHASE II IN NEWMARKET, N.H." DATED NOV. 2, 1981 BY KIMBALL CHASE COMPANY R.C.R.D PLAN D-10912.

- LEGEND
- EXISTING LOT LINE
 - PROPOSED LOT LINE
 - BUILDING SETBACK LINE
 - APPROXIMATE ABUTTERS LOT LINE
 - STONE WALL
 - RETAINING WALL
 - FEMA FLOOD ZONE LINE
 - EDGE OF DELINEATED WETLAND
 - POORLY DRAINED - PD (SEE NOTE 7)
 - EDGE OF DELINEATED WETLAND
 - VERY POORLY DRAINED - VPD (SEE NOTE 7)
 - WETLAND AREA (SEE NOTE 7)
 - PRIME WETLAND AREA (SEE NOTE 8)
 - 50' NOT CUT/NO DISTURB AREA
 - VERY POORLY DRAINED
 - 25' WETLAND SETBACK LINE - POORLY DRAINED
 - PRIME WETLAND SETBACK LINE
 - PIPE/ROD FOUND
 - DRILL HOLE FOUND (D.H.F.)
 - 5/8" REBAR W/ID CAP TO BE SET
 - 4"x4" GRANITE BOUND TO BE SET
 - BARBED WIRE FOUND ON GROUND
 - FENCE POST
 - DOUBLE YELLOW LINE
 - EDGE OF PAVEMENT
 - IRON PIPE FOUND
 - RETAINING WALL
 - SINGLE WHITE LINE

CURVE TABLE					
CURVE	ARC LENGTH	RADIUS	DELTA ANGLE	CHORD BEARING	CHORD LENGTH
C1	170.11'	1767.00'	5'30'58"	S84°05'12"E	170.05'
C2	12.35'	1767.00'	0'24'02"	S81°07'43"E	12.35'
C3	135.68'	1017.00'	7'38'39"	S77°06'22"E	135.58'
C4	96.36'	467.00'	11°49'19"	S67°22'23"E	96.19'
C5	187.12'	600.00'	17°52'06"	S52°31'41"E	186.36'

I CERTIFY THAT THIS SURVEY AND PLAN WERE PREPARED BY ME OR BY THOSE UNDER MY DIRECT SUPERVISION AND FALLS UNDER THE URBAN SURVEY CLASSIFICATION OF THE NH CODE OF ADMINISTRATIVE RULES OF THE BOARD OF LICENSURE FOR LAND SURVEYORS. I CERTIFY THAT THIS SURVEY WAS MADE ON THE GROUND AND IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. RANDOM TRAVERSE SURVEY BY TOTAL STATION, WITH A PRECISION GREATER THAN 1:15,000.



L.L.S. #1058
NOVEMBER 17, 2023 DATE

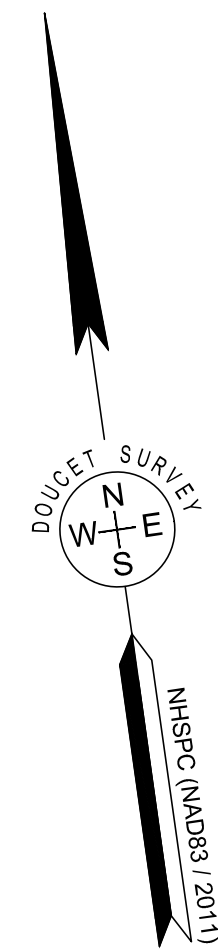
THE CERTIFICATIONS SHOWN HEREON ARE INTENDED TO MEET REGISTRY OF DEED REQUIREMENTS AND ARE NOT A CERTIFICATION TO TITLE OR OWNERSHIP OF PROPERTY SHOWN. OWNERS OF ADJOINING PROPERTIES ARE ACCORDING TO CURRENT TOWN ASSESSORS RECORDS.

SUBDIVISION PLAN
FOR
D.R. LEMIEUX BUILDERS, LLC
OF
TAX MAP U4, LOT 69
242 SOUTH MAIN STREET
NEWMARKET, NEW HAMPSHIRE

NO.	DATE	DESCRIPTION	BY
2	11/17/23	REVISE PROPOSED LOT	B.T.
1	8/22/23	REVISE PROPOSED LOT	J.R.P.

DRAWN BY:	M.T.L.	DATE:	MAY 23, 2023
CHECKED BY:	B.T.	DRAWING NO.	7630D
JOB NO.	7630	SHEET	1 OF 2

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MATCH LINE SHEET 2
SHEET 1

U4-68
NORTHPOINT REALTY, INC
258 WADLEIGH FALLS RD
NEWMARKET, NH 03857

PROPOSED
TAX MAP U4 LOT 69-1
301,367 Sq. Ft.
6.92 Acres

U4-85
DAMAN I. SANTANA &
LAUREN E. MCGINLEY
32 MAPLECREST ST.
NEWMARKET, NH 03857-1402
R.C.R.D. BK. 5395, PG. 295

U4-84
DAWN M. MAZUR 2020 REV. TRUST
34 MAPLECREST ST.
NEWMARKET, NH 03857
R.C.R.D. BK. 6183, PG. 1977

U4-83
SHARON M. MCCRILLIS
35 MAPLECREST ST.
NEWMARKET, NH 03857-1402
R.C.R.D. BK. 5048, PG. 965

U4-82
TIMOTHY R. & JESSICA J. NOYES
38 MAPLECREST ST.
NEWMARKET, NH 03857
R.C.R.D. BK. 6352, PG. 1482

1" I.P.F. UP 10"
IN CONC.
(HELD FOR LINE)

S42°15'24"E
107.59'
(TIE LINE I.P.F. TO REBAR)

S42°15'24"E
2.41'

S04°06'34"W
28.00'

5/8" REBAR FND.
UP 8" W/ID CAP
LLS 1037 (HELD)

FEMA LINE ZONE 'X'
ZONE 'A'

S46°22'18"E
252.39'

100' PRIME
WETLAND SETBACK

1" I.P.F. DOWN 3"
(HELD)

S46°22'18"E
115.05'

5/8" X 3" IRON STAKE
FND. UP 3"

N46°22'18"W
36.49' (TIE LINE I.P.F.
TO CORNER)

1" I.P.F. DOWN 18"
(HELD FOR LINE)

S07°37'24"W
92.20'

APPROVED BY THE NEWMARKET PLANNING BOARD

CHAIRPERSON _____ DATE _____

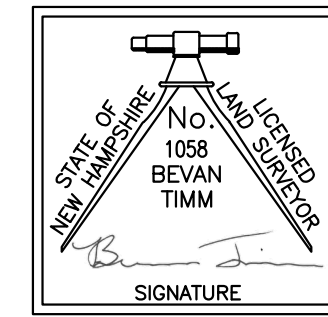


40 0 40 80
SCALE: 1 INCH = 40 FT.

SUBDIVISION PLAN
FOR
D.R. LEMIEUX BUILDERS, LLC
OF
TAX MAP U4, LOT 69
242 SOUTH MAIN STREET
NEWMARKET, NEW HAMPSHIRE

NO.	DATE	DESCRIPTION	BY
2	11/17/23	REVISE PROPOSED LOT	B.T.
1	8/22/23	REVISE PROPOSED LOT	J.R.F.

DRAWN BY:	M.T.L.	DATE:	MAY 23, 2023
CHECKED BY:	B.T.	DRAWING NO.	7630D
JOB NO.	7630	SHEET	2 OF 2

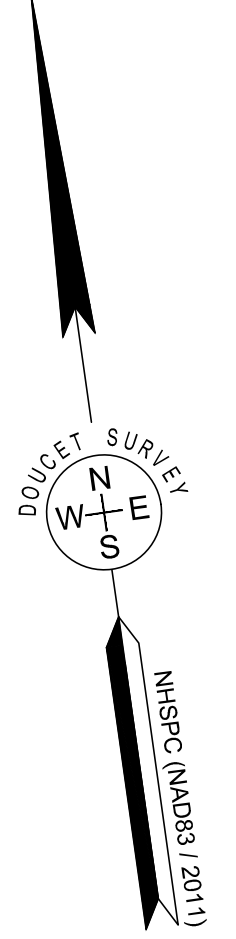


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Bevan Timm L.L.S. #1058
NOVEMBER 17, 2023 DATE

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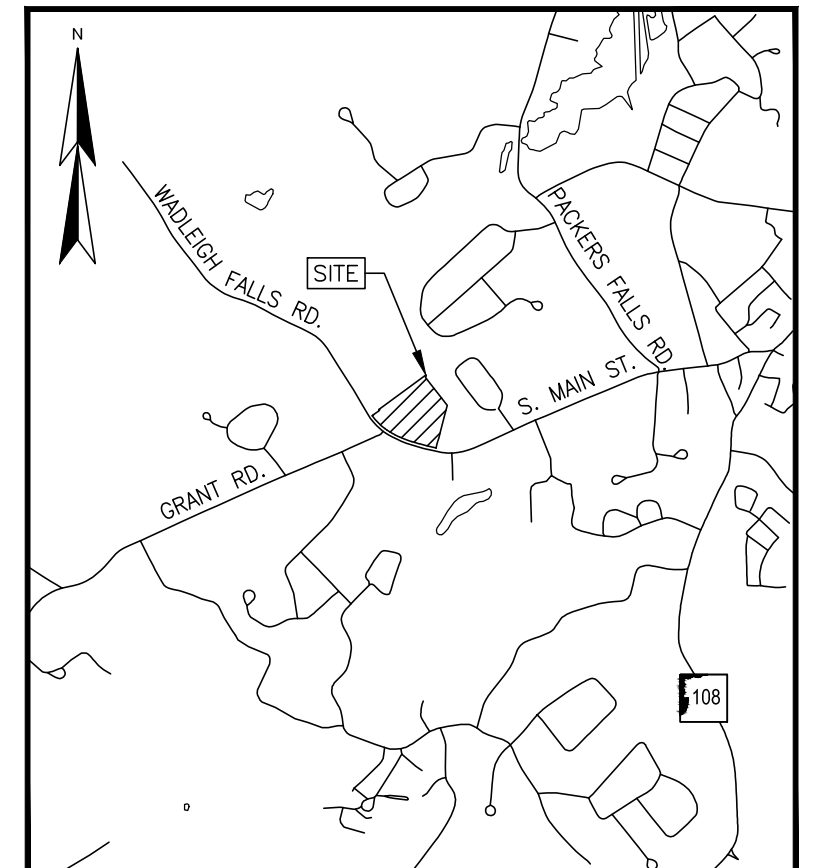
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MATCH LINE SHEET 2
SHEET 1

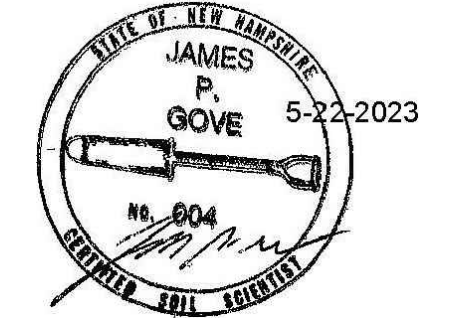
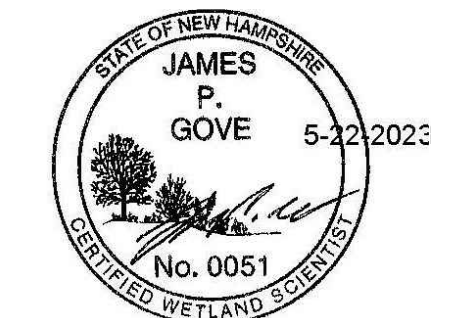
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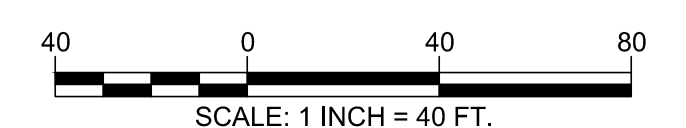


LOCATION MAP (n.t.s.)

LINE	BEARING	DISTANCE
L1	N80°55'42"W	79.76'
L2	N73°17'03"W	56.20'
L3	N61°27'44"W	26.56'



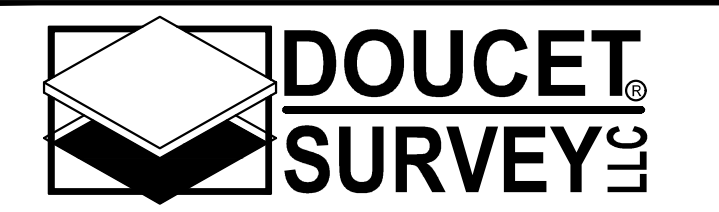
SEE SHEET 2 FOR LEGEND



EXISTING CONDITIONS PLAN
FOR
D.R. LEMIEUX BUILDERS, LLC
OF
TAX MAP U4, LOT 69
242 SOUTH MAIN STREET
NEWMARKET, NEW HAMPSHIRE

NO.	DATE	DESCRIPTION	BY
2	10/18/23	ADD WATER LINE - UPDATED NOTE 11	B.T.
1	05/22/23	ADD PRIME WETLANDS & SOILS	M.T.L.

DRAWN BY:	W.D.C.	DATE:	OCTOBER 10, 2022
CHECKED BY:	B.T.	DRAWING NO.:	7630B
JOB NO.:	7630	SHEET	1 OF 2



102 Kent Place, Newmarket, NH 03857 (603) 659-6560
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259 WADLEIGH FALLS RD.
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R.C.R.D. BK. 6386, PG. 2048

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15 CAROLYN DR.
NEWMARKET, NH 03857-1004
R.C.R.D. BK. 4411, PG. 2552

TAX MAP U4, LOT 53
NEWMARKET SCHOOL DISTRICT
239 SOUTH MAIN ST.
NEWMARKET, NH 03857
R.C.R.D. BK. 5735, PG. 1664

CURVE	ARC LENGTH	RADIUS	DELTA ANGLE	CHORD BEARING	CHORD LENGTH
C1	182.47'	1767.00'	5°55'00"	N83°53'11"W	182.39'
C2	135.68'	1017.00'	7°38'39"	N77°06'22"W	135.58'
C3	96.36'	467.00'	11°49'19"	N67°22'23"W	96.19'
C4	187.12'	600.00'	17°52'06"	N52°31'41"W	186.36'

NOTES:

- REFERENCE: TAX MAP U4, LOT 69, 242 SOUTH MAIN STREET, NEWMARKET, NH 03857
- TOTAL PARCEL AREA: 337,899 SQ. FT. OR 7.76 AC.
- OWNER OF RECORD: D.R. LEMIEUX BUILDERS, LLC, 76 EXETER ROAD, NEWMARKET, NH 03857, R.C.R.D. BOOK 6439, PAGE 1906
- FIELD SURVEY PERFORMED BY DOUCET SURVEY DURING AUGUST, SEPTEMBER, AND OCTOBER 2022 USING A TRIMBLE S5 TOTAL STATION AND A TRIMBLE R10 SURVEY GRADE GPS WITH A TRIMBLE TSC3 DATA COLLECTOR AND A TRIMBLE DINI DIGITAL LEVEL. TRAVERSE ADJUSTMENT BASED ON LEAST SQUARE ANALYSIS.
- HORIZONTAL DATUM BASED ON NAD83(2011) NEW HAMPSHIRE STATE PLANE COORDINATE ZONE (2800) DERIVED FROM REDUNDANT GPS OBSERVATIONS UTILIZING THE KEYNET GPS VRS NETWORK.
- VERTICAL DATUM IS BASED ON APPROXIMATE NAVD83(GEIOD18) (+/-2') DERIVED FROM REDUNDANT GPS OBSERVATIONS UTILIZING THE KEYNET GPS VRS NETWORK.
- JURISDICTIONAL WETLANDS DELINEATED BY JAMES P. GOVE, CWS 051, CSS 004 OF GOVE ENVIRONMENTAL SERVICES, INC. DURING AUGUST 2022 ACCORDING TO THE:
 - US ARMY CORPS OF ENGINEERS WETLANDS DELINEATION MANUAL, TECHNICAL REPORT Y-87-1 (JAN 1987).
 - REGIONAL SUPPLEMENT TO THE CORPS OF ENGINEERS WETLAND DELINEATION MANUAL: NORTH-CENTRAL AND NORTHEAST REGION, VERSION 2.0, JANUARY 2012.
 - FIELD INDICATORS FOR IDENTIFYING HYDRIC SOILS IN NEW ENGLAND, VERSION 4, NEW ENGLAND HYDRIC SOILS TECHNICAL COMMITTEE.
- FLOOD HAZARD ZONE: "X" & "A", PER FIRM MAP #33015C0230F, DATED 1/29/2021.
- PROPER FIELD PROCEDURES WERE FOLLOWED IN ORDER TO GENERATE CONTOURS AT 2' INTERVALS. ANY MODIFICATION OF THIS INTERVAL WILL DIMINISH THE INTEGRITY OF THE DATA, AND DOUCET SURVEY WILL NOT BE RESPONSIBLE FOR ANY SUCH ALTERATION PERFORMED BY THE USER.
- UNDERGROUND UTILITIES SHOWN HEREON ARE BASED ON OBSERVED PHYSICAL EVIDENCE AND PAINT MARKS FOUND ON-SITE. NO UTILITIES WERE MARKED AS PART OF THIS SURVEY. THE WATER LINE AS SHOWN HEREON WAS PROVIDED BY BEALS ASSOCIATES, PLLC.

- THE ACCURACY OF MEASURED UTILITY INVERTS AND PIPE SIZES/TYPES IS SUBJECT TO NUMEROUS FIELD CONDITIONS, INCLUDING: THE ABILITY TO MAKE VISUAL OBSERVATIONS, DIRECT ACCESS TO THE VARIOUS ELEMENTS, MANHOLE CONFIGURATION, ETC.
- THE INTENT OF THIS PLAN IS TO SHOW THE LOCATION OF BOUNDARIES IN ACCORDANCE WITH AND IN RELATION TO THE CURRENT LEGAL DESCRIPTION, AND IS NOT AN ATTEMPT TO DEFINE UNWRITTEN RIGHTS, DETERMINE THE EXTENT OF OWNERSHIP, OR DEFINE THE LIMITS OF TITLE.
- SOUTH MAIN STREET/WADLEIGH FALLS ROAD (ROUTE 152) RIGHT OF WAY IS FOUR RODS (66') IN WIDTH, SEE S.R. SHEET 5-49 (BOOK 18, PAGE 849) ON FILE AT THE STATE OF NEW HAMPSHIRE ARCHIVES. THE RIGHT OF WAY AS SHOWN HEREON IS BASED ON THE EXISTING CENTERLINE AND MONUMENTS FOUND IN THE FIELD.
- ALL UNDERGROUND UTILITIES (ELECTRIC, GAS, TEL, WATER, SEWER DRAIN SERVICES) ARE SHOWN IN SCHEMATIC FASHION, THEIR LOCATIONS ARE NOT PRECISE OR NECESSARILY ACCURATE. NO WORK WHATSOEVER SHALL BE UNDERTAKEN USING THIS PLAN TO LOCATE THE ABOVE SERVICES. CONSULT WITH THE PROPER AUTHORITIES CONCERNED WITH THE SUBJECT SERVICE LOCATIONS FOR INFORMATION REGARDING SUCH. CALL DIG-SAFE AT 1-888-DIG-SAFE.
- PRIME WETLANDS SHOWN HEREON BASED ON "TOWN OF NEWMARKET, NH PRIME WETLANDS MAP 2: NORTH-CENTRAL SECTION" PRODUCED BY THE TOWN OF NEWMARKET MARCH 24, 2004 UPDATED BY STRAFFORD RPC JANUARY 8, 2013.
- SITE SPECIFIC SOILS SHOWN HEREON WITHIN THE TECHNICAL STANDARDS OF THE NATIONAL COOPERATIVE SOIL SURVEY. IT IS A SPECIAL PURPOSE PRODUCT, INTENDED FOR INFILTRATION REQUIREMENTS BY THE NH DES. ALTERATION OF TERRAIN BUREAU. IT WAS PRODUCED BY A PROFESSIONAL SOIL SCIENTIST, AND IS NOT A PRODUCT OF THE USDA NATURAL RESOURCES CONSERVATION SERVICE. THERE IS A REPORT THAT ACCOMPANIES THIS MAP.
- THE SITE SPECIFIC SOIL MAP (SSSM) WAS PRODUCED 04-10-2023, AND WAS PREPARED BY JAMES P. GOVE, CSS # 004, GOVE ENVIRONMENTAL SERVICES, INC. THE SURVEY AREA IS LOCATED AT 242 SOUTH MAIN STREET, NEWMARKET, NH. SOILS WERE IDENTIFIED WITH THE NEW HAMPSHIRE STATE-WIDE NUMERICAL SOILS LEGEND, USDA NRCS, DURHAM, NH, ISSUE # 10, JANUARY 2011. THE NUMERIC LEGEND WAS AMENDED TO IDENTIFY THE CORRECT SOIL COMPONENTS OF THE COMPLEX.

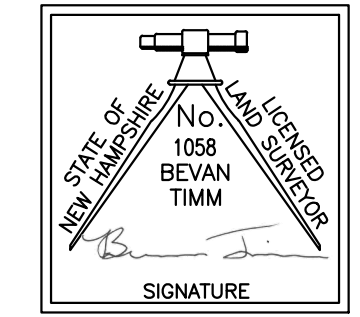
HYDROLOGIC SOIL GROUP FROM KSAT VALUES FOR NEW HAMPSHIRE SOILS, SOCIETY OF SOIL SCIENTISTS OF NEW ENGLAND, SPECIAL PUBLICATION NO. 5, SEPTEMBER, 2009.

SSSM SYM.	SSSM MAP NAME	HISS NO.	HYDRO. SOIL GROUP
38	ELDRIDGE LOAMY SAND	343	C
538	SQUAMSCOTT LOAMY SAND	543	C
134	MAYBID MUCKY SILT	643	D

SLOPE PHASE:
0-8% = B, 8-15% = C, 15-25% = D, 25%+ = E

REFERENCE PLANS:

- "D.W. HOYT DEVELOPMENT MAPLECREST NEWMARKET - N.H." DATED OCTOBER 4, 1951 BY H.V. SHEAHAN C.E. R.C.R.D. PLAN 01752.
- "D.W. HOYT HOUSING PROJECT 30 MAIN STREET NEWMARKET - N.H." DATED JULY 1951 BY H.V. SHEAHAN R.C.R.D. PLAN 01753.
- "TAX MAP U-2 LOT 68 CONDOMINIUM SITE PLAN 258 WADLEIGH FALLS RD., A-B 258 WADLEIGH FALLS ROAD NEWMARKET, NEW HAMPSHIRE COUNTY OF ROCKINGHAM OWNED BY NORTHPOINT REALTY, INC." DATED MAY 28, 2021 REVISED 6/7/2021 AND 7/20/2021 BY TFMORAN R.C.R.D. PLAN D-42885.
- "SUBDIVISION OF LAND OF JOHN CARPENTER IN NEWMARKET N.H." DATED 11/5/76 BY MOULTON ENGINEERING CO. R.C.R.D. PLAN D-6451.
- "SUBDIVISION PLAN FOR AMERICAN LAND DEVELOPMENT INC. WOOD HAVEN PHASE II IN NEWMARKET, N.H." DATED NOV. 2, 1981 BY KIMBALL CHASE COMPANY R.C.R.D. PLAN D-10912.



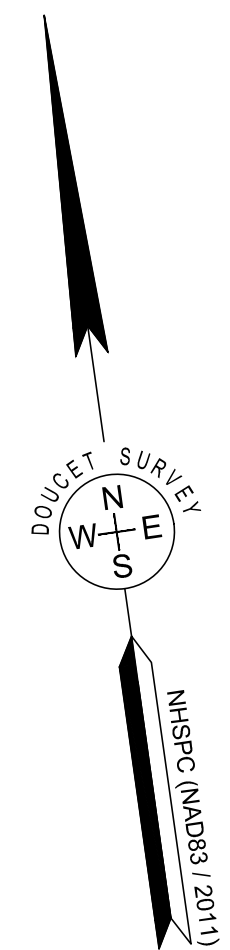
PURSUANT TO RSA 676:18, III:

I CERTIFY THAT THIS SURVEY PLAN IS NOT A SUBDIVISION PURSUANT TO THIS TITLE AND THAT THE LINES OF STREETS AND WAYS SHOWN ARE THOSE OF PUBLIC OR PRIVATE STREETS OR WAYS ALREADY ESTABLISHED AND THAT NO NEW WAYS ARE SHOWN.

I CERTIFY THAT THIS SURVEY AND PLAN WERE PREPARED BY ME OR BY THOSE UNDER MY DIRECT SUPERVISION AND FALLS UNDER THE URBAN SURVEY CLASSIFICATION OF THE NH CODE OF ADMINISTRATIVE RULES OF THE BOARD OF LICENSURE FOR LAND SURVEYORS. I CERTIFY THAT THIS SURVEY WAS MADE ON THE GROUND AND IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. RANDOM TRAVERSE SURVEY BY TOTAL STATION, WITH A PRECISION GREATER THAN 1:15,000."

OCTOBER 18, 2023 DATE

THE CERTIFICATIONS SHOWN HEREON ARE INTENDED TO MEET REGISTRY OF DEED REQUIREMENTS AND ARE NOT A CERTIFICATION TO TITLE OR OWNERSHIP OF PROPERTY SHOWN. OWNERS OF ADJOINING PROPERTIES ARE ACCORDING TO CURRENT TOWN ASSESSORS RECORDS.



LEGEND

---	EXISTING LOT LINE
- - - -	APPROXIMATE ADJUTERS LOT LINE (PER GIS)
---	MAJOR CONTOUR LINE
- - - -	MINOR CONTOUR LINE
---	STONE WALL
---	RETAINING WALL
---	OVERHEAD WIRE
---	DRAIN LINE
---	SEWER LINE
---	TREE LINE
---	FEMA FLOOD ZONE LINE
---	EDGE OF DELINEATED WETLAND
---	POORLY DRAINED (SEE NOTE 8)
---	EDGE OF DELINEATED WETLAND
---	VERY POORLY DRAINED (SEE NOTE 8)
---	WETLAND AREA (SEE NOTE 8)
---	PRIME WETLAND AREA (SEE NOTE 16)
---	CONCRETE
×	SPOT GRADE
○	PIPE/ROD FOUND
○	DRILL HOLE FOUND (D.H.F.)
○	5/8" REBAR W/ID CAP OR OTHER SUITABLE MONUMENT TO BE SET
○	BARBED WIRE FOUND ON GROUND
○	WOODEN POST
○	UTILITY POLE
○	UTILITY POLE & GUY WIRE
○	CATCH BASIN
○	SEWER MANHOLE
○	FIRE HYDRANT
○	WATER GATE VALVE
○	WATER SHUTOFF VALVE
○	ELECTRIC METER
○	MANHOLE
○	SIGN
○	POST
○	MAIL BOX
○	PROPOSED TEST PIT LOCATION
○	CONIFEROUS TREE
○	DECIDUOUS TREE
○	DECIDUOUS BUSH
○	CONC.
○	D.H.
○	DIP
○	DUCTILE IRON PIPE
○	DOUBLE YELLOW LINE
○	EDGE OF PAVEMENT
○	I.P.F.
○	IRON PIPE FOUND
○	PVC
○	POLYVINYL CHLORIDE PIPE
○	RET. WALL
○	SGC
○	SLOPED GRANITE CURB
○	SWL
○	TH
○	THRESHOLD ELEVATION
○	T.O.P.
○	TOP OF PIPE
○	TYP.
○	TYPICAL
○	VGC
○	VERTICAL GRANITE CURB
○	VPD
○	VERY POORLY DRAINED (SEE NOTE 8)
○	PD
○	POORLY DRAINED (SEE NOTE 8)

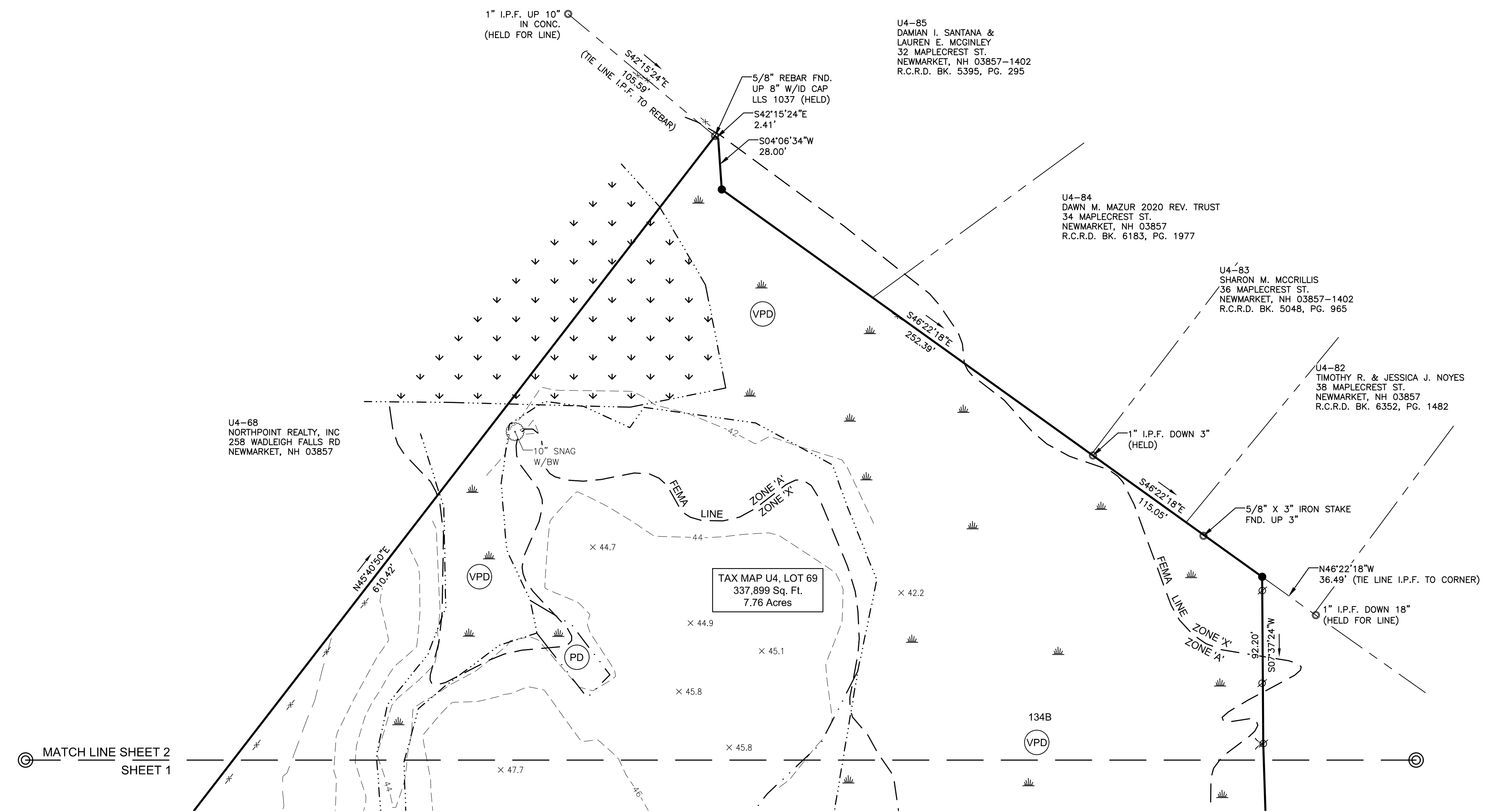


EXISTING CONDITIONS PLAN
 FOR
D.R. LEMIEUX BUILDERS, LLC
 OF
TAX MAP U4, LOT 69
 242 SOUTH MAIN STREET
 NEWMARKET, NEW HAMPSHIRE

NO.	DATE	DESCRIPTION	BY
1	05/22/23	ADD PRIME WETLANDS & SOILS	M.T.L.

DRAWN BY:	W.D.C.	DATE:	OCTOBER 10, 2022
CHECKED BY:	B.T.	DRAWING NO.	7630B
JOB NO.	7630	SHEET	2 OF 2

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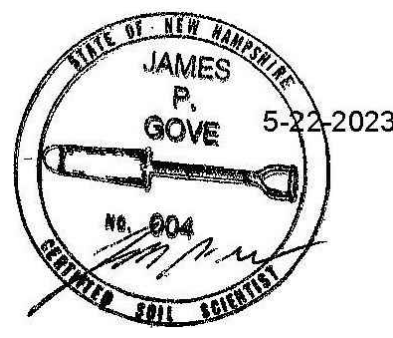
MATCH LINE SHEET 2
 SHEET 1

PURSUANT TO RSA 676:18, III:
 I CERTIFY THAT THIS SURVEY PLAT IS NOT A SUBDIVISION PURSUANT TO THIS TITLE AND THAT THE LINES OF STREETS AND WAYS SHOWN ARE THOSE OF PUBLIC OR PRIVATE STREETS OR WAYS ALREADY ESTABLISHED AND THAT NO NEW WAYS ARE SHOWN.
 I CERTIFY THAT THIS SURVEY AND PLAN WERE PREPARED BY ME OR BY THOSE UNDER MY DIRECT SUPERVISION AND FALLS UNDER THE URBAN SURVEY CLASSIFICATION OF THE NH CODE OF ADMINISTRATIVE RULES OF THE BOARD OF LICENSURE FOR LAND SURVEYORS. I CERTIFY THAT THIS SURVEY WAS MADE ON THE GROUND AND IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. RANDOM TRAVERSE SURVEY BY TOTAL STATION, WITH A PRECISION GREATER THAN 1:15,000."

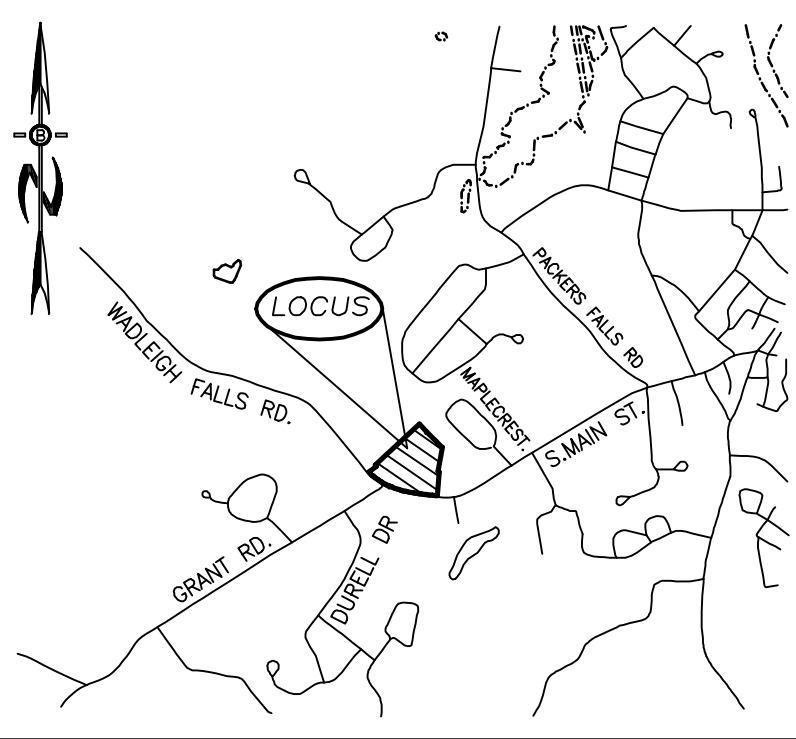
STATE OF NEW HAMPSHIRE
 No. 1058
 BEVAN TIMM
 LICENSED SURVEYOR
 SIGNATURE

 L.L.S. #1058
 MAY 22, 2023 DATE

THE CERTIFICATIONS SHOWN HEREON ARE INTENDED TO MEET REGISTRY OF DEED REQUIREMENTS AND ARE NOT A CERTIFICATION TO TITLE OR OWNERSHIP OF PROPERTY SHOWN. OWNERS OF ADJOINING PROPERTIES ARE ACCORDING TO CURRENT TOWN ASSESSORS RECORDS.



FILE NAME: C:\Users\jgove\Documents\Survey\NH\2023\1008 EC.dwg PLOTDATE: Monday, May 22, 2023 11:23am



LOCATION MAP

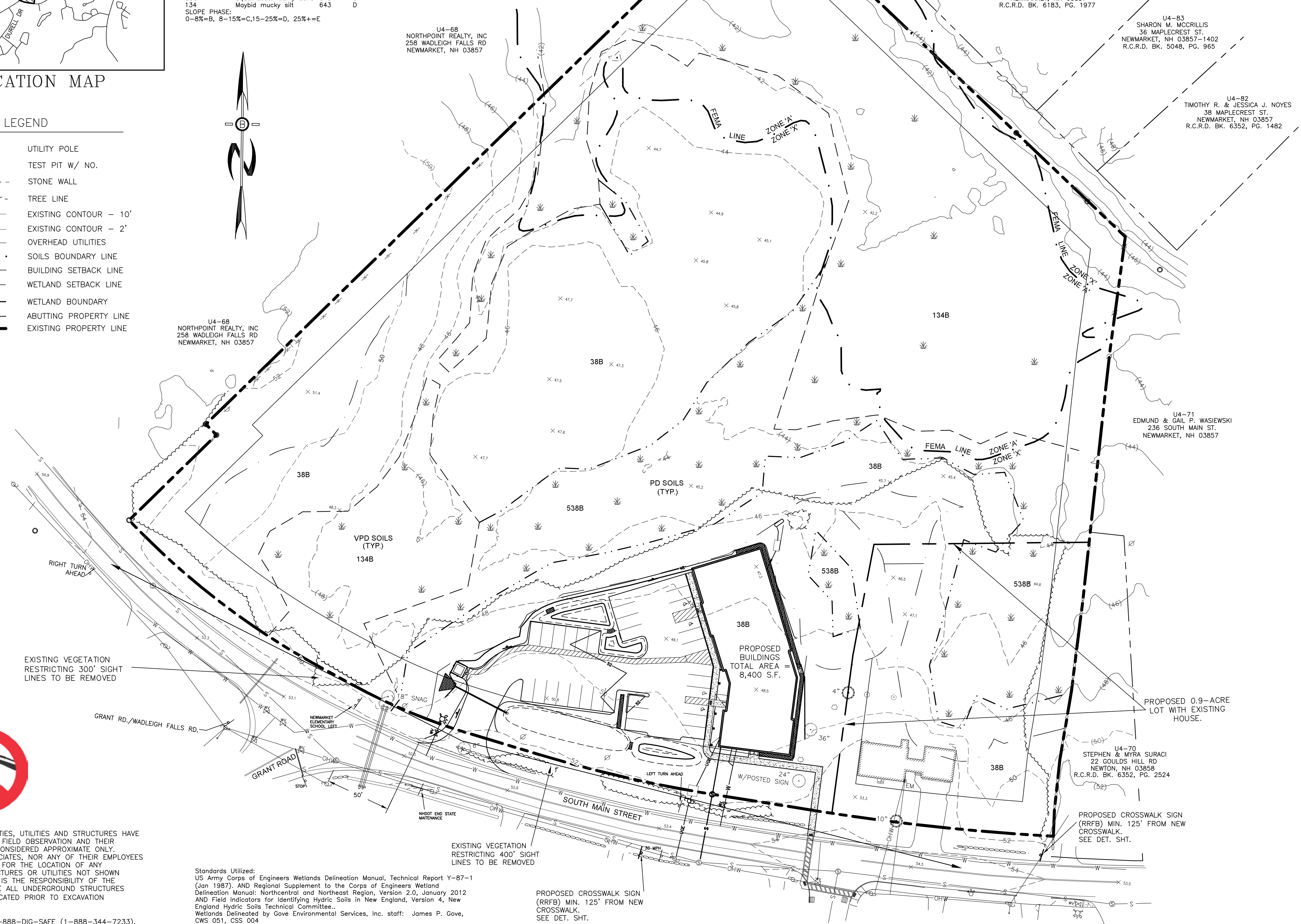
LEGEND

- UTILITY POLE
- TEST PIT W/ NO.
- STONE WALL
- TREE LINE
- EXISTING CONTOUR - 10'
- EXISTING CONTOUR - 2'
- OVERHEAD UTILITIES
- SOILS BOUNDARY LINE
- BUILDING SETBACK LINE
- WETLAND SETBACK LINE
- WETLAND BOUNDARY
- ABUTTING PROPERTY LINE
- EXISTING PROPERTY LINE

This map product is within the technical standards of the National Cooperative Soil Survey. It is a special purpose product, intended for infiltration requirements by the NH DES Alteration of Terrain Bureau. It was produced by a professional soil scientist, and is not a product of the USDA Natural Resources Conservation Service. There is a report that accompanies this map. The site specific soil map (SSSM) was produced 04-10-2023, and was prepared by James P. Gove, CSS # 004, Gove Environmental Services, Inc. The survey area is located at 242 South Main Street, Newmarket, NH. Soils were identified with the New Hampshire State-wide Numerical Soils Legend, USDA NRCS, Durham, NH, Issue # 10, January 2011. The numeric legend was amended to identify the correct soil components of the complex. Hydrologic Soil Group from Ksat Values for New Hampshire Soils, Society of Soil Scientists of New England, Special Publication No. 5, September, 2009.

SSSM SYM.	SSSM MAP NAME	HISS#	HYDRO. SOIL GRP.
38	Eldridge loamy sand	343	C
538	Squamscott loamy sand	543	C
134	Maybid mucky silt	643	D

SLOPE PHASE:
0-8%=B, 8-15%=C, 15-25%=D, 25%+=E



DENSITY CALCULATIONS:
AGE RESTRICTED HOUSING
UPLAND AREA = 3.851ACx8 UNITS/AC = 31
PD WETLAND AREA = 0.730ACx8 UNITS/AC = 6
TOTAL = 37 (WITHOUT BONUSES)

SINGLE FAMILY DWELLING
UPLAND AREA = 0.38AC = 76% OF REQUIRED AREA
WETLAND AREA = 0.46AC

PREPARED FOR:
DR LEMIEUX BUILDERS, INC.
76 EXETER ROAD
NEWMARKET, NH 03857

BA BEALS ASSOCIATES, PLLC
70 PORTSMOUTH AVE,
THIRD FLOOR, SUITE 2
STRATHAM, N.H. 03885
PHONE: 603-583-4860,
FAX: 603-583-4863

- NOTES**
- UNDERGROUND FACILITIES, UTILITIES AND STRUCTURES HAVE BEEN LOCATED FROM FIELD OBSERVATIONS AND THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. BEALS ASSOCIATES OR ANY OF THEIR EMPLOYEES TAKE NO RESPONSIBILITY FOR THE LOCATION OF ANY UNDERGROUND STRUCTURES OR UTILITIES NOT SHOWN, THAT MAY EXIST. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE ALL UNDERGROUND UTILITIES OR STRUCTURES LOCATED PRIOR TO EXCAVATION WORK BY CALLING 1-888-DIG-SAFE
 - THIS PLAN HAS BEEN PREPARED FOR MUNICIPAL AND STATE APPROVALS AND FOR CONSTRUCTION BASED ON DATA OBTAINED FROM ON-SITE FIELD SURVEY AND EXISTING MUNICIPAL RECORDS. THROUGHOUT THE CONSTRUCTION PROCESS, THE CONTRACTOR SHALL INFORM THE ENGINEER IMMEDIATELY OF ANY FIELD DISCREPANCY FROM DATA AS SHOWN ON THE DESIGN PLANS. THIS INCLUDES ANY UNFORESEEN CONDITIONS, SUBSURFACE OR OTHERWISE, FOR EVALUATION AND RECOMMENDATIONS. ANY CONTRADICTION BETWEEN ITEMS OF THIS PLAN/PLAN SET, OR BETWEEN THE PLANS AND ON-SITE CONDITIONS MUST BE RESOLVED BEFORE RELATED CONSTRUCTION HAS BEEN INITIATED.
 - THE INTENT OF THIS PROPOSAL CONSISTS OF A PROPOSED 32 UNIT AGE RESTRICTED BUILDING AND ASSOCIATED PARKING.
 - ALL SNOW SHALL BE STORED IN THE AREA(S) OFF PAVEMENT & PARKING AREAS. IN THE EVENT THAT THE AREA(S) APPROVED FOR SNOW STORAGE BECOME FULL, THE OWNER SHALL REASONABLY REMOVE EXCESS SNOW FROM THE SITE, AND SHALL NOT ALLOW SNOW TO BE STORED WITHIN TRAVEL ASLES.
 - ALL WASTE MATERIALS AND RECYCLABLE SHALL BE CONTAINED WITHIN THE BUILDING(S) OR APPROVED STORAGE FACILITIES.
 - THE LANDOWNER IS RESPONSIBLE FOR COMPLYING WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL WETLAND REGULATIONS, INCLUDING ANY PERMITTING AND SETBACK REQUIREMENTS REQUIRED UNDER THESE REGULATIONS.
 - SEE DETAIL SHEET FOR STANDARD CONSTRUCTION NOTES AND DETAILS.

ZONING REQUIREMENTS

ZONE: R2	
MIN. LOT SIZE =	1/2 ACRE
MIN. FRONTAGE =	100'
MAX. HEIGHT =	35'
BUILDING SETBACKS:	
FRONT	25'
SIDE & REAR	15'
WETLANDS	50'

PLANNING BOARD APPROVAL BLOCK

REVISIONS PER PLANNING BOARD COMMENTS	11-17-23
REVISIONS PER REVIEW COMMENTS	10-18-23
REVISIONS PER REVIEW COMMENTS	8-16-23
REVISIONS:	DATE:

PROPOSED SITE PLAN

RESIDENTIAL DEVELOPMENT
TAX MAP U4, LOT 69
242 SOUTH MAIN STREET
NEWMARKET, NEW HAMPSHIRE

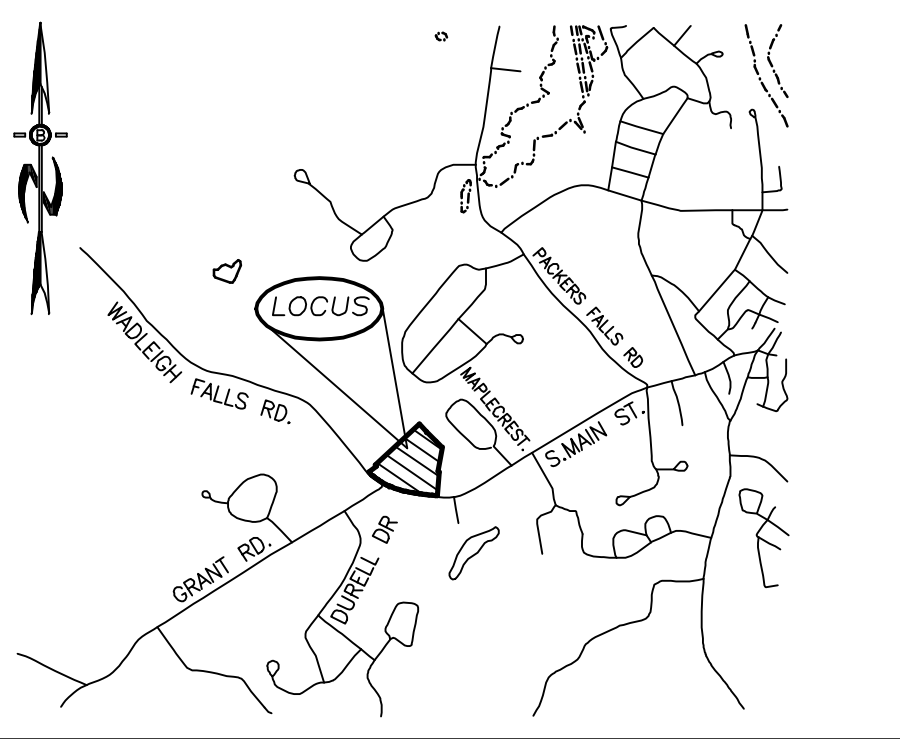
DATE:	JAN 2023	SCALE:	1"=40'
PROJ. NO:	NH-1449	SHEET NO.	3



UNDERGROUND FACILITIES, UTILITIES AND STRUCTURES HAVE BEEN PLOTTED FROM FIELD OBSERVATION AND THEIR LOCATION MUST BE CONSIDERED APPROXIMATE ONLY. NEITHER BEALS ASSOCIATES, NOR ANY OF THEIR EMPLOYEES TAKE RESPONSIBILITY FOR THE LOCATION OF ANY UNDERGROUND STRUCTURES OR UTILITIES NOT SHOWN THAT MAY EXIST. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE ALL UNDERGROUND STRUCTURES AND/OR UTILITIES LOCATED PRIOR TO EXCAVATION

Standards Utilized:
US Army Corps of Engineers Wetlands Delineation Manual, Technical Report Y-87-1 (Jan 1987), AND Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northeast and Northcentral Region, Version 2.0, January 2012 AND Field Indicators for Identifying Hydric Soils in New England, Version 4, New England Hydric Soils Technical Committee.
Wetlands Delineated by Gove Environmental Services, Inc. staff: James P. Gove, CWS 051, CSS 004

WORK BY CALLING 1-888-DIG-SAFE (1-888-344-7233).



LOCATION MAP

LEGEND

	UTILITY POLE
	TEST PIT W/ NO.
	STONE WALL
	TREE LINE
	EXISTING CONTOUR - 10'
	EXISTING CONTOUR - 2'
	OVERHEAD UTILITIES
	SOILS BOUNDARY LINE
	BUILDING SETBACK LINE
	WETLAND SETBACK LINE
	WETLAND BOUNDARY
	ABUTTING PROPERTY LINE
	EXISTING PROPERTY LINE

ZONING REQUIREMENTS

ZONE: R2
 MIN. LOT SIZE = 1/2 ACRE
 MIN. FRONTAGE = 100'
 MAX. HEIGHT = 35'

BUILDING SETBACKS:
 FRONT 25'
 SIDE & REAR 15'
 WETLANDS 50'

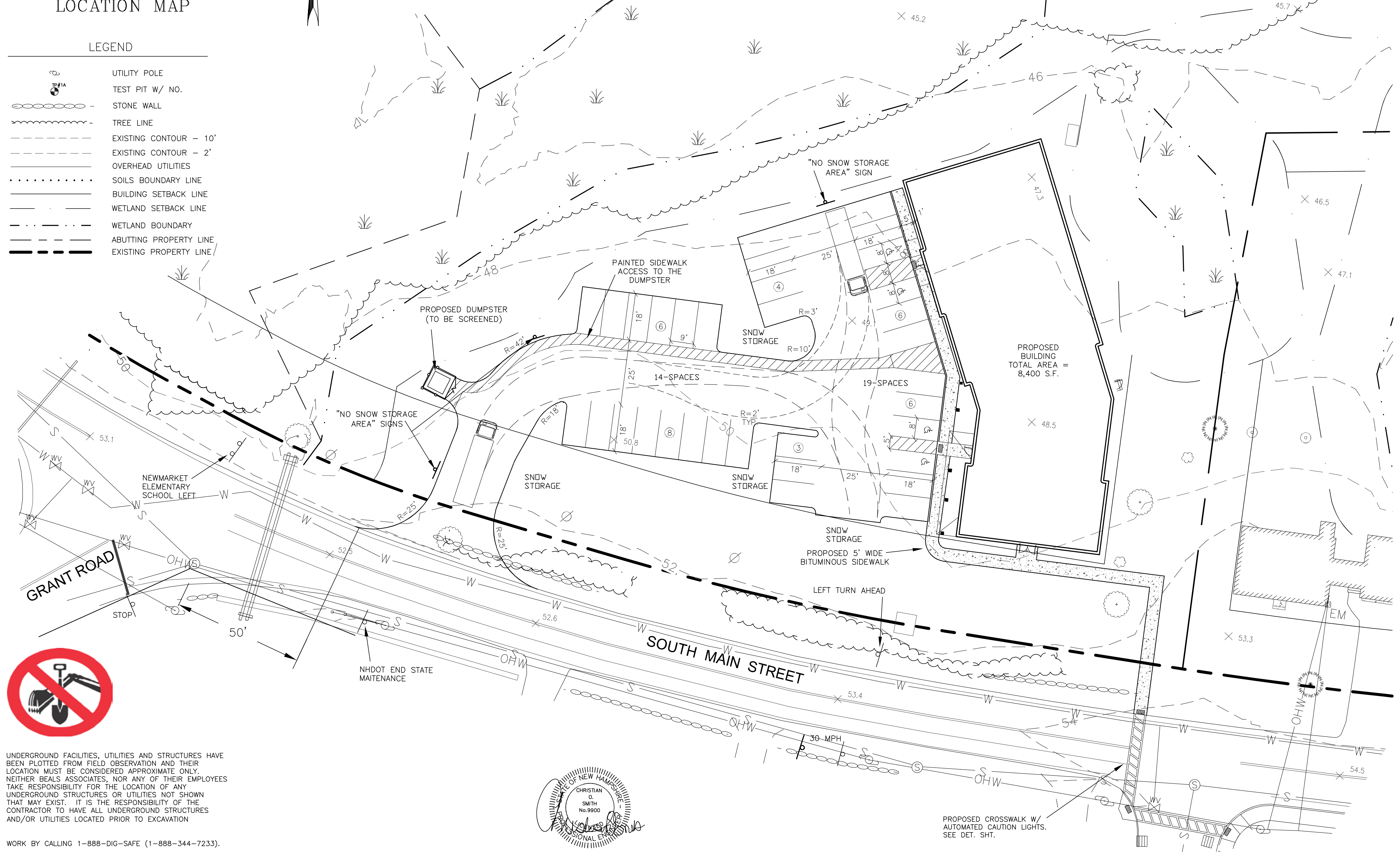
PARKING CALCULATIONS:
 AGE RESTRICTED HOUSING
 1/ UNIT = 30

TOTAL SPACES REQUIRED= 30
 TOTAL SPACES PROVIDED= 33

PREPARED FOR:
DR LEMIEUX BUILDERS, INC.
 76 EXETER ROAD
 NEWMARKET, NH 03857

BA BEALS ASSOCIATES, PLLC
 70 PORTSMOUTH AVE,
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 - SEE DETAIL SHEET FOR STANDARD CONSTRUCTION NOTES AND DETAILS.



PLANNING BOARD APPROVAL BLOCK

REVISIONS PER PLANNING BOARD COMMENTS	11-17-23
REVISIONS PER REVIEW COMMENTS	10-18-23
REVISIONS PER REVIEW COMMENTS	8-16-23
REVISIONS:	DATE:

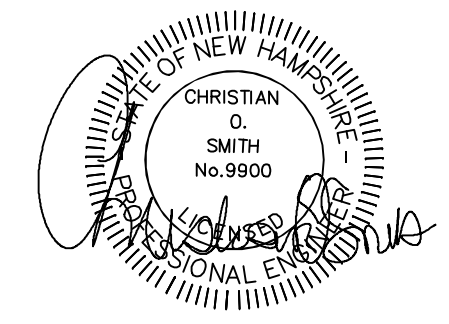
PARKING/PAVEMENT PLAN

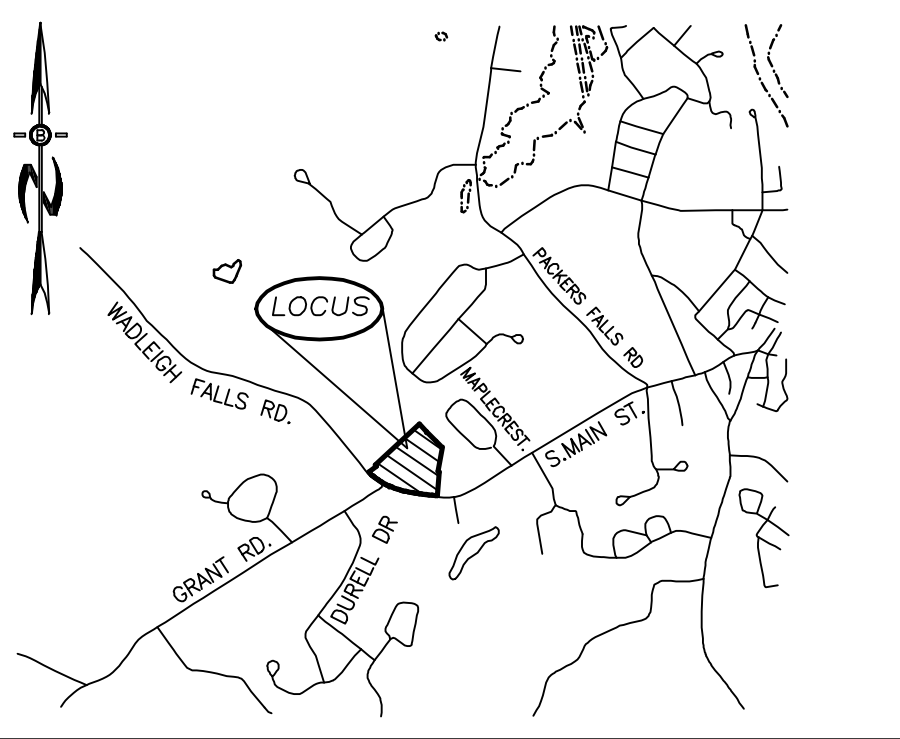
RESIDENTIAL DEVELOPMENT
 TAX MAP U4, LOT 69
 242 SOUTH MAIN STREET
 NEWMARKET, NEW HAMPSHIRE

DATE:	JAN 2023	SCALE:	1"=20'
PROJ. NO:	NH-1449	SHEET NO.	4

UNDERGROUND FACILITIES, UTILITIES AND STRUCTURES HAVE BEEN PLOTTED FROM FIELD OBSERVATION AND THEIR LOCATION MUST BE CONSIDERED APPROXIMATE ONLY. NEITHER BEALS ASSOCIATES, NOR ANY OF THEIR EMPLOYEES TAKE RESPONSIBILITY FOR THE LOCATION OF ANY UNDERGROUND STRUCTURES OR UTILITIES NOT SHOWN THAT MAY EXIST. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE ALL UNDERGROUND STRUCTURES AND/OR UTILITIES LOCATED PRIOR TO EXCAVATION

WORK BY CALLING 1-888-DIG-SAFE (1-888-344-7233).

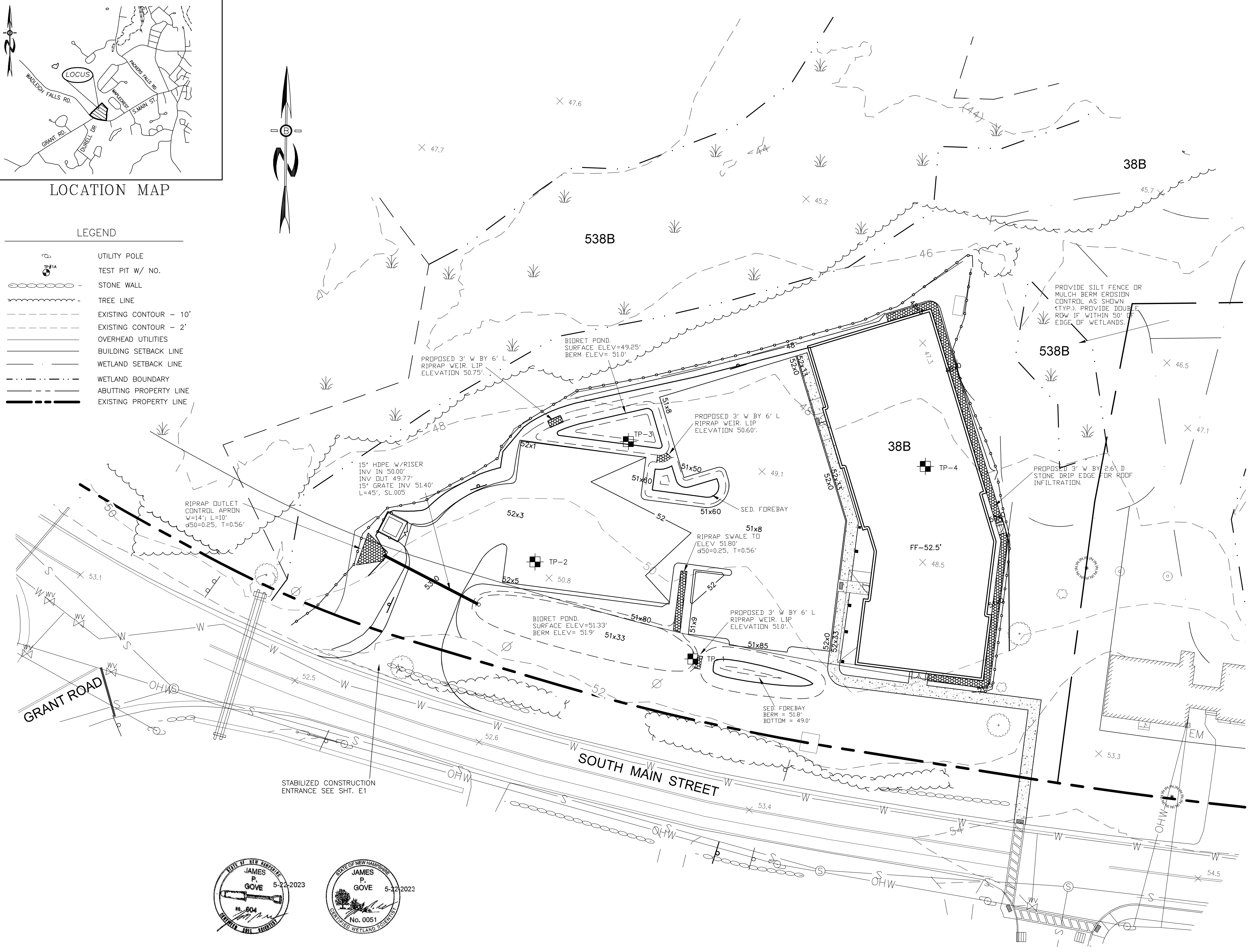




LOCATION MAP

LEGEND

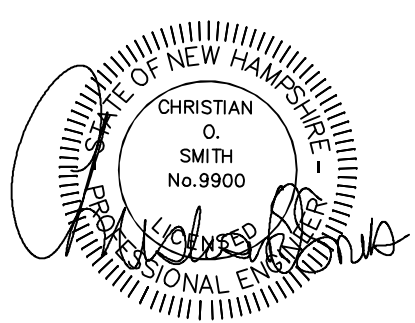
- UTILITY POLE
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- EXISTING CONTOUR - 10'
- EXISTING CONTOUR - 2'
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- WETLAND SETBACK LINE
- WETLAND BOUNDARY
- ABUTTING PROPERTY LINE
- EXISTING PROPERTY LINE



PREPARED FOR:
DR LEMIEUX BUILDERS, INC.
 76 EXETER ROAD
 NEWMARKET, NH 03857

BA BEALS
 ASSOCIATES, PLLC
 70 PORTSMOUTH AVE,
 THIRD FLOOR, SUITE 2
 STRATHAM, N.H. 03885
 PHONE: 603-583-4860,
 FAX: 603-583-4863

- NOTES**
- UNDERGROUND FACILITIES, UTILITIES AND STRUCTURES HAVE BEEN LOCATED FROM FIELD OBSERVATIONS AND THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. BEALS ASSOCIATES OR ANY OF THEIR EMPLOYEES TAKE NO RESPONSIBILITY FOR THE LOCATION OF ANY UNDERGROUND STRUCTURES OR UTILITIES NOT SHOWN, THAT MAY EXIST. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE ALL UNDERGROUND UTILITIES OR STRUCTURES LOCATED PRIOR TO EXCAVATION WORK BY CALLING 1-888-DIG-SAFE.
 - THIS PLAN HAS BEEN PREPARED FOR MUNICIPAL AND STATE APPROVALS AND FOR CONSTRUCTION BASED ON DATA OBTAINED FROM ON-SITE FIELD SURVEY AND EXISTING MUNICIPAL RECORDS. THROUGHOUT THE CONSTRUCTION PROCESS, THE CONTRACTOR SHALL INFORM THE ENGINEER IMMEDIATELY OF ANY FIELD DISCREPANCY FROM DATA AS SHOWN ON THE DESIGN PLANS. THIS INCLUDES ANY UNFORESEEN CONDITIONS, SUBSURFACE OR OTHERWISE, FOR EVALUATION AND RECOMMENDATIONS. ANY CONTRADICTION BETWEEN ITEMS OF THIS PLAN/PLAN SET, OR BETWEEN THE PLANS AND ON-SITE CONDITIONS MUST BE RESOLVED BEFORE RELATED CONSTRUCTION HAS BEEN INITIATED.
 - ALL BENCHMARKS AND TOPOGRAPHY SHOULD BE FIELD VERIFIED BY THE CONTRACTOR.
 - ALL ROAD AND DRAINAGE WORK TO CONFORM TO TOWN STANDARD SPECIFICATIONS FOR CONSTRUCTION.
 - ALL PROPOSED SIGNS SHALL CONFORM TO THE TOWN ZONING REGULATIONS.
 - IF, DURING CONSTRUCTION, IT BECOMES APPARENT THAT 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 LANDOWNER IS RESPONSIBLE FOR COMPLYING WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL WETLAND REGULATIONS, INCLUDING ANY PERMITTING AND SETBACK REQUIREMENTS REQUIRED UNDER THESE REGULATIONS.
 - SEE DETAIL SHEET FOR STANDARD CONSTRUCTION NOTES AND DETAILS.
 - ALTERATION OF TERRAIN PERMIT RSA 485:A-17 IS NOT REQUIRED.
 - THIS SITE IS PARTIALLY LOCATED IN THE 100 YEAR FLOOD ZONE.
 - REQUIRED EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO ANY DISTURBANCE OF THE SITE 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.



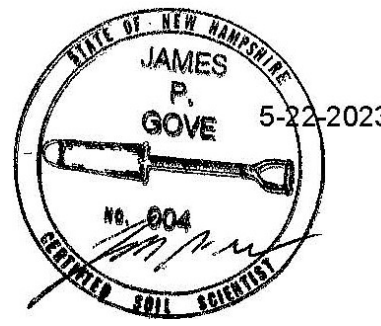
PLANNING BOARD APPROVAL BLOCK

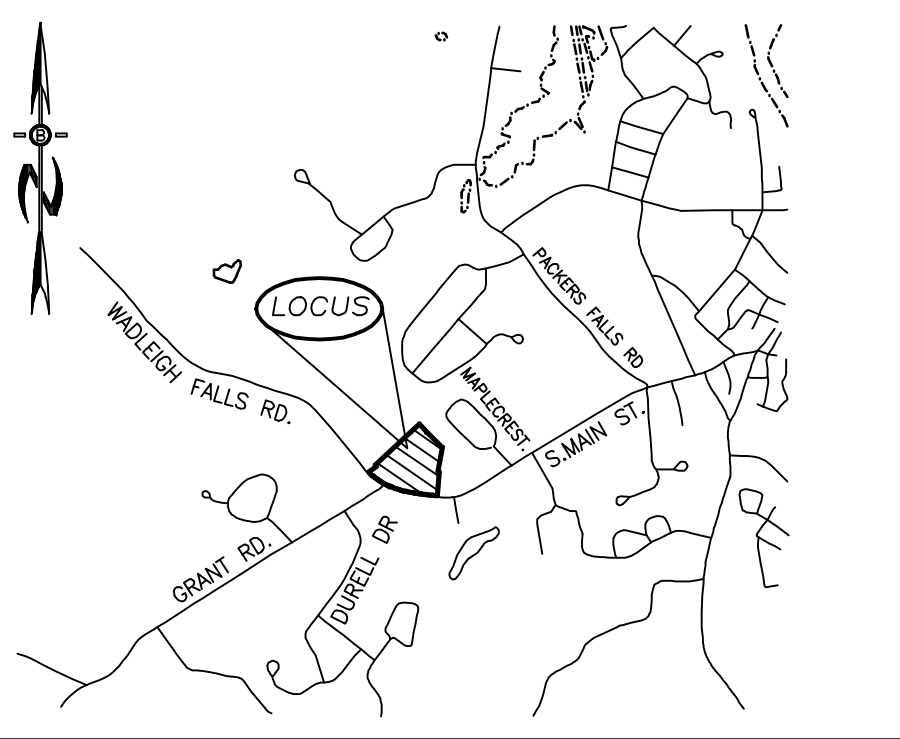
REVISIONS PER PLANNING BOARD COMMENTS	11-17-23
REVISIONS PER REVIEW COMMENTS	10-18-23
REVISIONS PER REVIEW COMMENTS	8-16-23
REVISIONS:	DATE:

GRADING & DRAINAGE PLAN

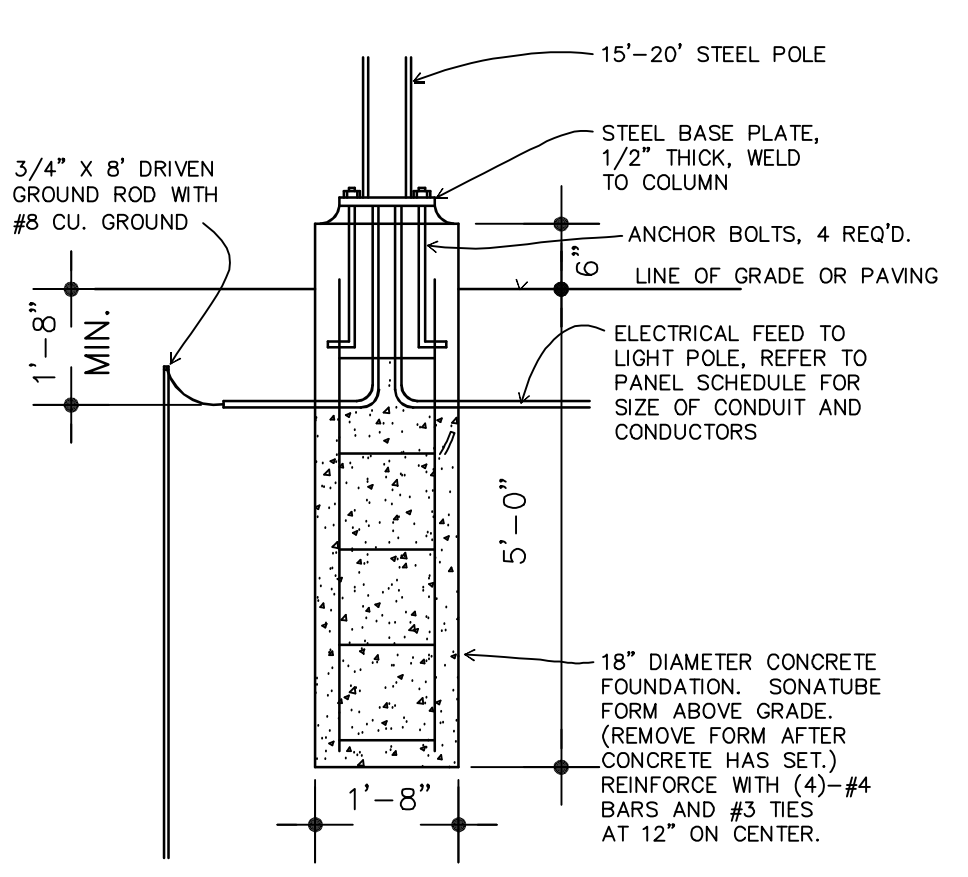
RESIDENTIAL DEVELOPMENT
 TAX MAP U4, LOT 69
 242 SOUTH MAIN STREET
 NEWMARKET, NEW HAMPSHIRE

DATE:	JAN 2023	SCALE:	1"=20'
PROJ. NO:	NH-1449	SHEET NO.	5





LOCATION MAP



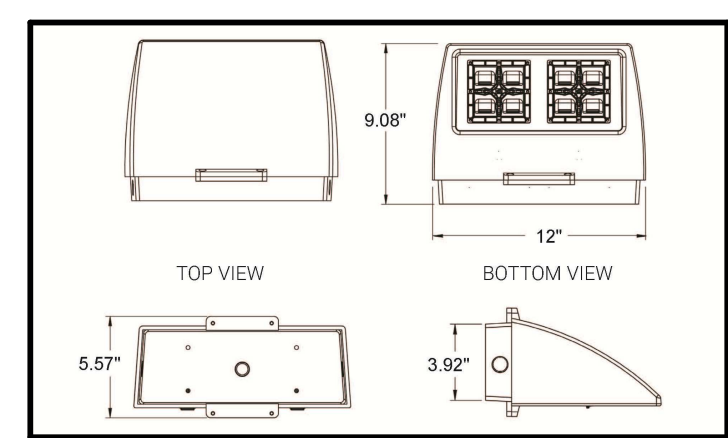
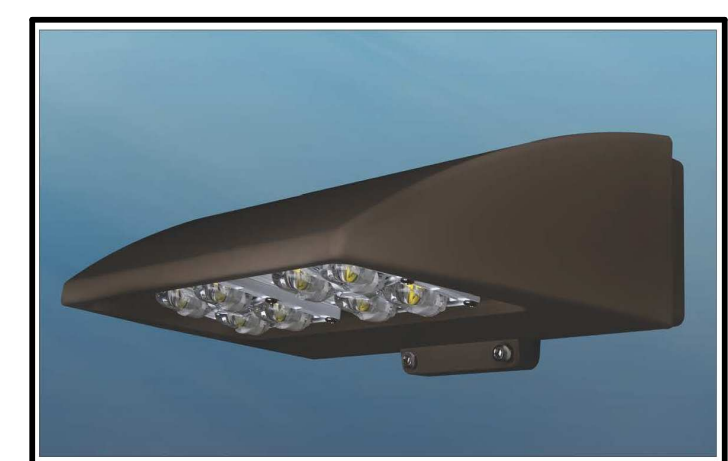
POLE FOUNDATION LIGHT BASE DETAIL
SCALE: NONE

Symbol	Qty	Label	Arrangement	Description	Tag
→	1	P1	Single	NLS LIGHTING: NV-1-T4-16L-53-40K7-UNV-ASA-BRZ	MOUNTED ON 15' NLS LIGHTING POLE: SSSP-15-4S-11G-9BC-SGL-BRZ-3430
→	3	P2	Single	NLS LIGHTING: NV-1-T5-32L-1-40K7-UNV-ASA-BRZ	MOUNTED ON 20' NLS LIGHTING POLE: SSSP-20-4S-11G-9BC-SGL-BRZ-3430
→	2	W1	Single	NLS LIGHTING: NV-W-T4-16L-1-40K7-UNV-WM-BRZ	WALL MTD 18' AFG
→	1	W2	Single	NLS LIGHTING: NV-W-T4-16L-53-40K7-UNV-WM-BRZ	WALL MTD 16' AFG

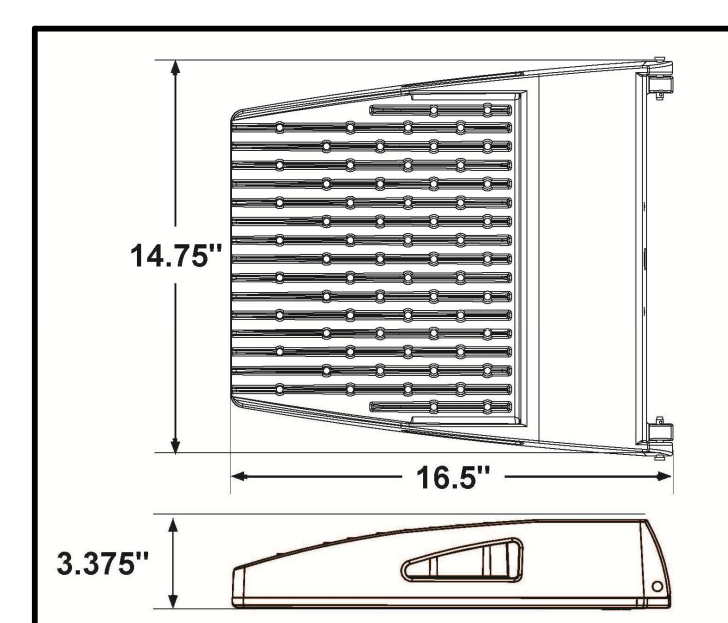
Parking Lot
Illuminance (Fc)
Average = 2.05
Maximum = 3.2
Minimum = 1.0
Avg/Min Ratio = 2.05
Max/Min Ratio = 3.20

PREPARED FOR:
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76 EXETER ROAD
NEWMARKET, NH 03857

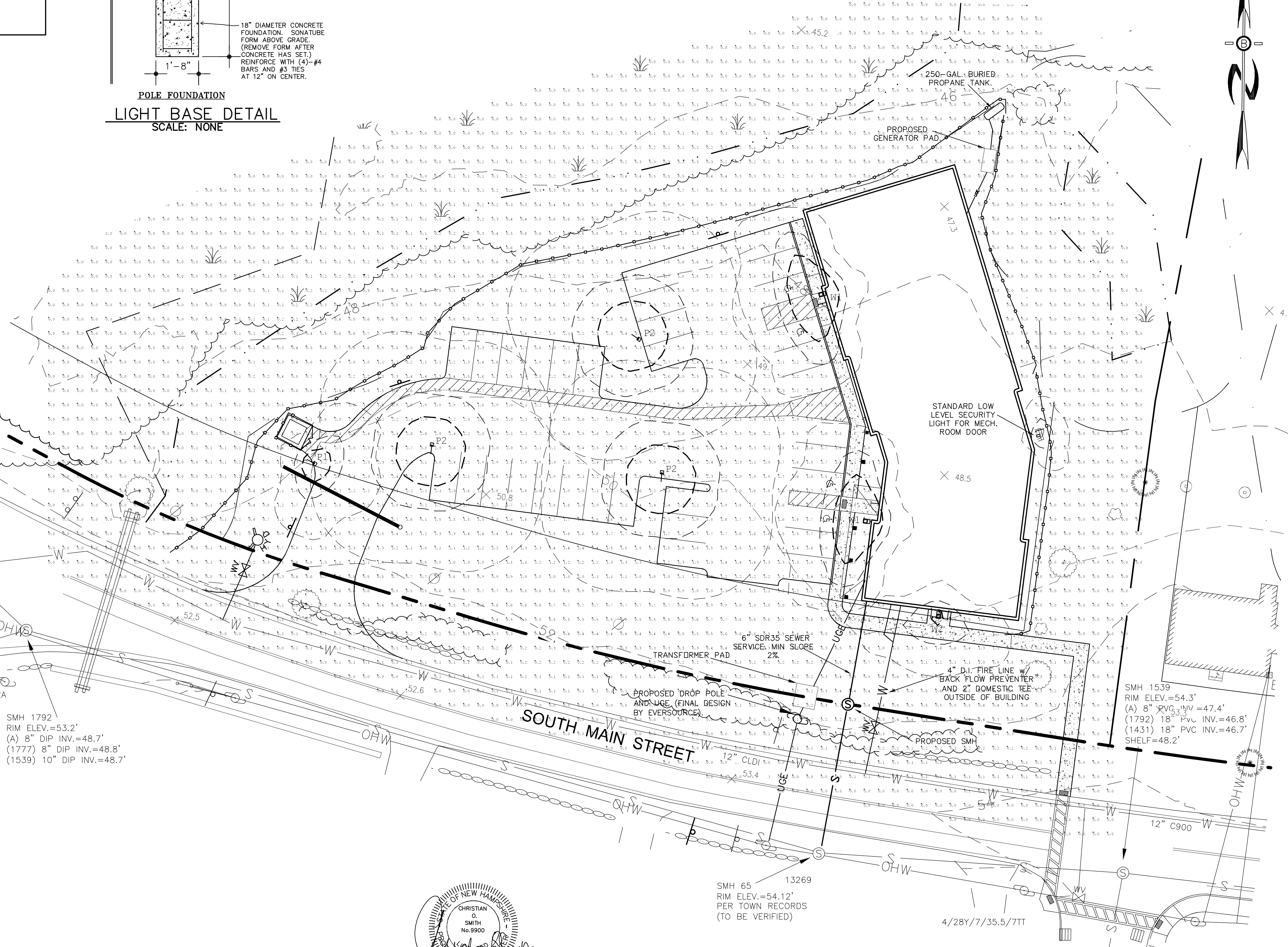
BA BEALS
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STRATHAM, N.H. 03885
PHONE: 603-583-4860,
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WALLPACK DETAIL



POLE MOUNTED DETAIL



- LIGHTING NOTES:**
- ALL OUTDOOR LIGHTING SHALL BE SO DIRECTED & SHIELDED THAT NO GLARE WILL SPILL OUT ONTO OTHER RESIDENTIALLY ZONED PROPERTIES.
 - AFTER 10:00 PM ONLY THAT AMOUNT OF LIGHT NECESSARY FOR THE SECURITY OF THE PREMISES SHALL BE PERMITTED.

- UTILITY NOTES**
- PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER, ARCHITECT AND/OR OWNER, IN ORDER TO OBTAIN AND/OR PAY ALL THE NECESSARY LOCAL PERMITS, FEES AND BONDS.
 - THE CONTRACTOR SHALL PROVIDE NOTICE TO ALL COMPANIES AND LOCAL AUTHORITIES OWNING OR HAVING A JURISDICTION OVER UTILITIES RUNNING TO, THROUGH OR ACROSS PROJECT AREAS PRIOR TO DEMOLITION AND/OR CONSTRUCTION ACTIVITIES.
 - THE SPECIFICATIONS FOR PROPOSED PRIVATE UTILITY SERVICES SHALL BE TO THE STANDARDS AND REQUIREMENTS OF THE RESPECTIVE UTILITY CO. CONTRACTOR TO COORDINATE WITH UTILITY COMPANIES FOR PROPER UTILITY CROSSING REQUIREMENTS.
 - A PRECONSTRUCTION MEETING SHALL BE HELD WITH THE OWNER, ENGINEER, ARCHITECT, CONTRACTOR, LOCAL OFFICIALS, AND ALL UTILITY COMPANIES (PUBLIC AND PRIVATE) PRIOR TO START OF CONSTRUCTION.
 - ALL CONSTRUCTION SHALL CONFORM TO TOWN STANDARDS AND REGULATIONS, UNLESS OTHERWISE SPECIFIED. ALL CONSTRUCTION ACTIVITIES SHALL CONFORM TO LABOR (OSHA) RULES AND REGULATIONS.
 - BUILDINGS ARE TO BE SERVICED BY UNDERGROUND UTILITIES.
 - THE CONTRACTOR IS TO VERIFY LOCATION AND DEPTH OF ALL EXISTING UTILITY STUBS PRIOR TO CONSTRUCTION AND DISCONNECT ALL EXISTING SERVICE CONNECTIONS AT THEIR RESPECTIVE MAINS (IF REQUIRED) IN ACCORDANCE WITH THE RESPECTIVE UTILITY COMPANY'S STANDARDS AND SPECIFICATIONS.
 - SEWER AND WATER INFRASTRUCTURE ON PRIVATE PROPERTY SHALL REMAIN PRIVATE, HOWEVER, THE TOWN RESERVES THE RIGHT TO ENTER THE PROPERTY IN ORDER TO INSPECT, REPAIR AND/OR TERMINATE INDIVIDUAL SEWER OR WATER SERVICES (AT OWNER'S EXPENSE).
 - ALL WATER AND SANITARY LEADS TO BUILDING SHALL END 5' OUTSIDE THE BUILDING LIMITS AS SHOWN ON PLANS AND SHALL BE PROVIDED WITH A TEMPORARY CAP AND WITNESS AT END.
 - THRUST BLOCKS SHALL BE PROVIDED AT ALL BENDS, TEES AND MECHANICAL JOINTS.
 - CONTRACTOR SHALL MINIMIZE DISRUPTIONS TO EXISTING WATER SERVICES AND ALL REQUIREMENTS OF WATER DEPARTMENT SHALL BE FOLLOWED REGARDING NOTIFICATION OF INTERRUPTION OF SERVICE.
 - WATER VALVES ARE TO BE OPERATED ONLY BY MUNICIPAL STAFF.

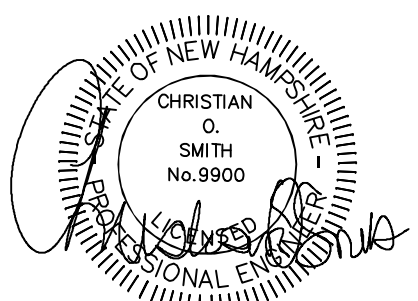
PLANNING BOARD APPROVAL BLOCK

REVISIONS PER PLANNING BOARD COMMENTS	11-17-23
REVISIONS PER REVIEW COMMENTS	10-18-23
REVISIONS PER REVIEW COMMENTS	8-16-23
REVISIONS:	DATE:

UTILITY/LIGHTING PLAN

RESIDENTIAL DEVELOPMENT
TAX MAP U4, LOT 69
242 SOUTH MAIN STREET
NEWMARKET, NEW HAMPSHIRE

DATE:	JAN 2023	SCALE:	1"=20'
PROJ. NO:	NH-1449	SHEET NO.	6



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	FAIR	POOR
	C	POOR	EXCELLENT	EXCELLENT	EXCELLENT
	D	FAIR	FAIR	GOOD	EXCELLENT
	E	FAIR	EXCELLENT	EXCELLENT	POOR
WATERWAYS, EMERGENCY SPILLWAYS, AND OTHER CHANNELS WITH FLOWING WATER	A	GOOD	GOOD	GOOD	FAIR
	C	GOOD	EXCELLENT	EXCELLENT	FAIR
	D	GOOD	EXCELLENT	EXCELLENT	FAIR
LIGHTLY USED PARKING LOTS, ODD AREAS, UNUSED LANDS, AND LOW INTENSITY USE RECREATION SITES	A	GOOD	GOOD	GOOD	FAIR
	B	GOOD	GOOD	EXCELLENT	FAIR
	C	GOOD	EXCELLENT	EXCELLENT	FAIR
	D	FAIR	GOOD	GOOD	EXCELLENT
PLAY AREAS AND ATHLETIC FIELDS (TOPSOIL IS ESSENTIAL FOR GOOD TURF)	F	FAIR	EXCELLENT	EXCELLENT	2/
	G	FAIR	EXCELLENT	EXCELLENT	2/

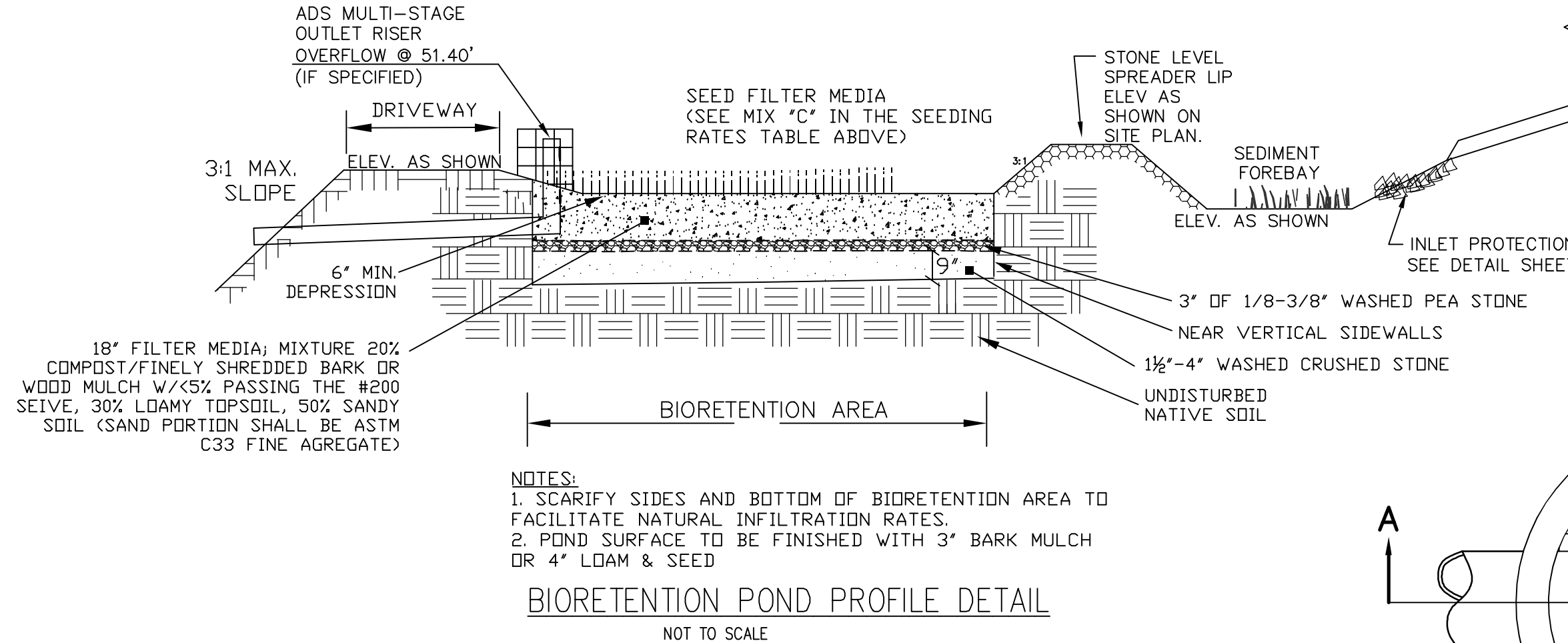
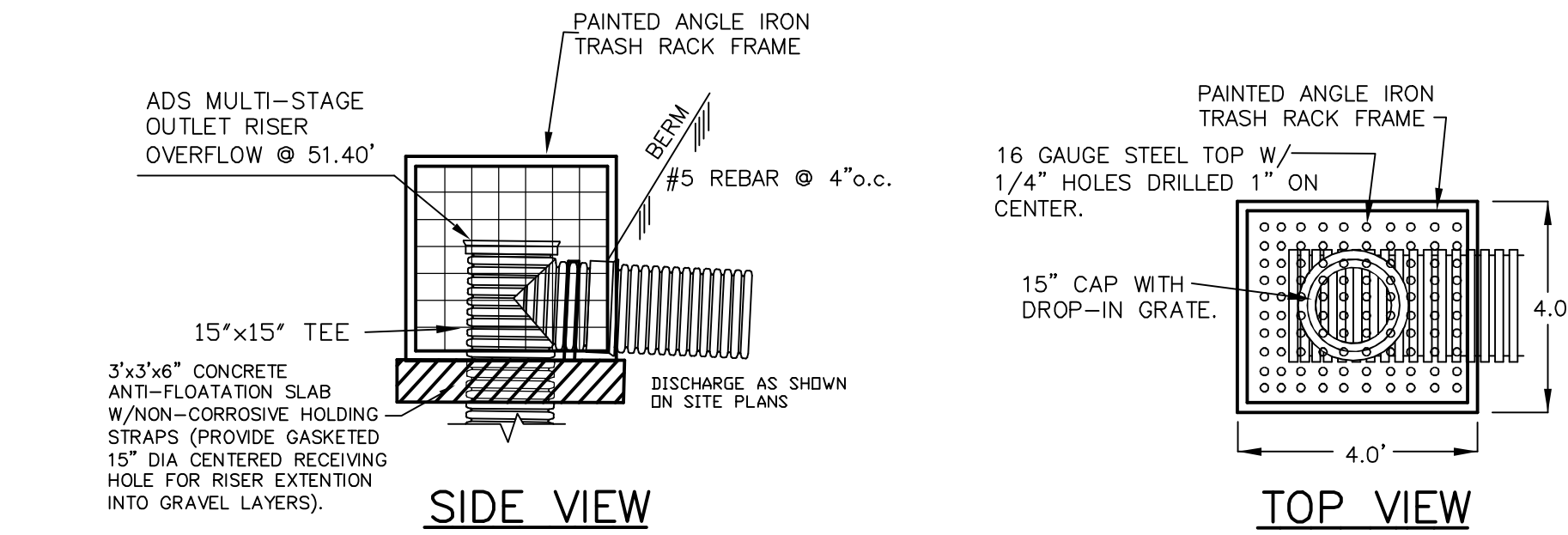
SEEDING RATES

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	10	0.25
CROWN VETCH	15	0.35
OR		
FLAT PEA	30	0.75
TOTAL	40 OR 55	0.95 OR 1.35
C. TALL FESCUE	20	0.45
CREEPING RED FESCUE	20	0.45
BIRDS FOOT TREFLOIL	8	0.20
TOTAL	48	1.10
D. TALL FESCUE	20	0.45
FLAT PEA	30	0.75
TOTAL	50	1.20
E. CREEPING RED FESCUE 1/	50	1.15
KENTUCKY BLUEGRASS 1/	50	1.15
TOTAL	100	2.30
F. TALL FESCUE 1	150	3.60

* REFER TO SEEDING MIXTURES AND RATES IN TABLE 7-36. (PREFERRED MIX INDICATED WITH AN ASTERISK).

1/ FOR HEAVY USE ATHLETIC FIELDS CONSULT THE UNIVERSITY OF NEW HAMPSHIRE COOPERATIVE EXTENSION TURF SPECIALIST FOR CURRENT VARIETIES AND SEEDING RATES. TABLE 7-36

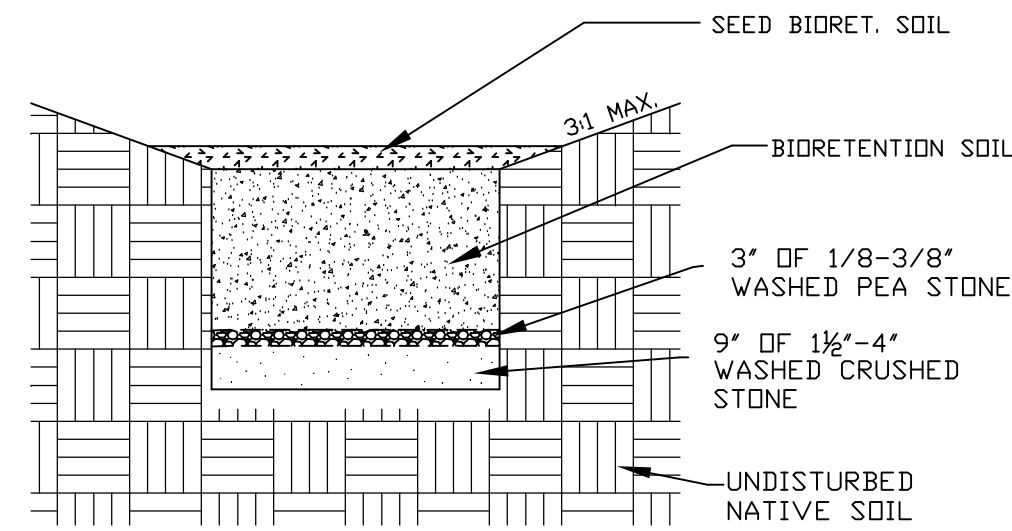
NOTE: TEMPORARY SEED MIX FOR STABILIZATION OF TURF SHALL BE WINTER RYE OR DATS AT A RATE OF 2.5 LBS. PER 1000 S.F. AND SHALL BE LAYED PRIOR TO OCT. 15, IF PERMANENT SEEDING NOT YET COMPLETE.



NOTES:
1. SCARIFY SIDES AND BOTTOM OF BIORETENTION AREA TO FACILITATE NATURAL INFILTRATION RATES.
2. POND SURFACE TO BE FINISHED WITH 3" BARK MULCH OR 4" LOAM & SEED

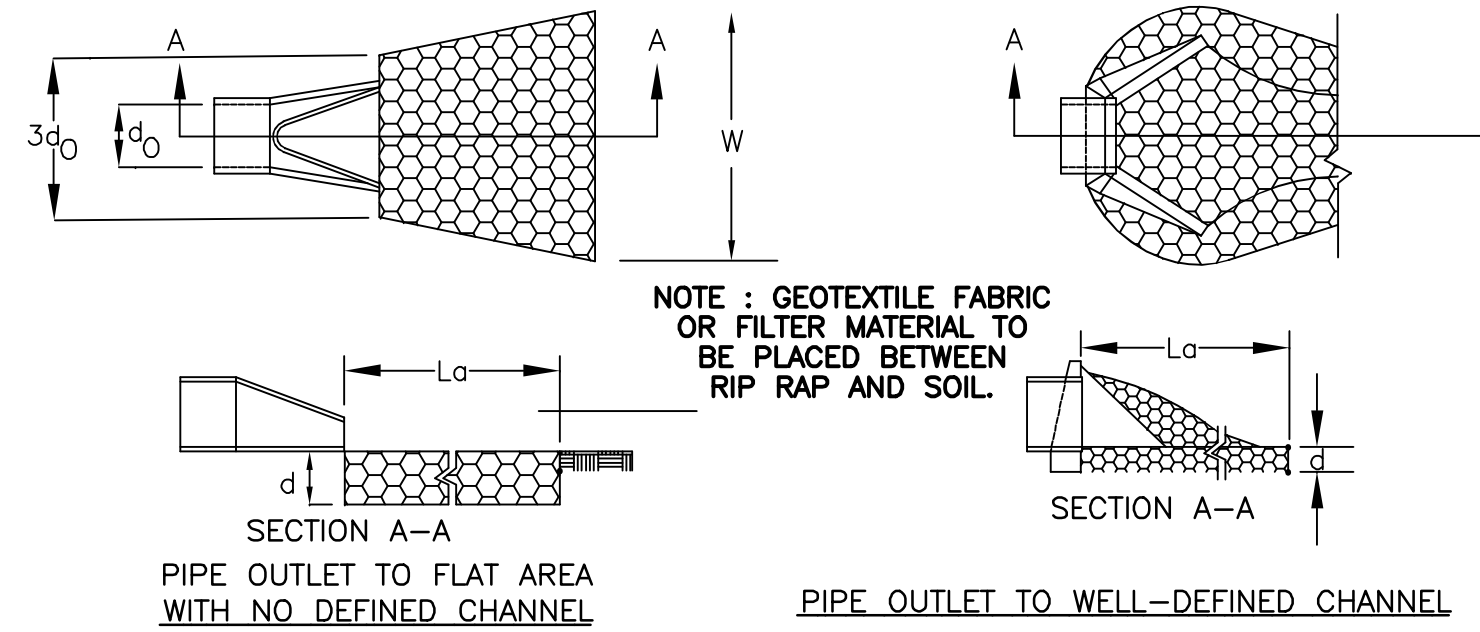
A. FOR FILTRATION BASIN:
• DO NOT TRAFFIC EXPOSED SOIL SURFACE WITH CONSTRUCTION EQUIPMENT. IF FEASIBLE, PERFORM EXCAVATIONS WITH EQUIPMENT POSITIONED OUTSIDE THE LIMITS OF THE INFILTRATION SYSTEM.
• AFTER THE INFILTRATION SYSTEM AREA IS EXCAVATED TO THE FINAL DESIGN ELEVATION, THE FLOOR SHOULD BE DEEPLY TILLED WITH A ROTARY TILLER OR DISC HARROW TO RESTORE INFILTRATION RATES, FOLLOWED BY A PASS WITH A LEVELING DRAG.
• DO NOT PLACE INFILTRATION SYSTEMS INTO SERVICE UNTIL THE CONTRIBUTING AREAS HAVE BEEN FULLY STABILIZED.

DRAINAGE NOTES:
DO NOT TRAFFIC EXPOSED SOIL SURFACE WITH CONSTRUCTION EQUIPMENT. IF FEASIBLE, PERFORM EXCAVATION WITH EQUIPMENT POSITIONED OUTSIDE THE LIMITS OF THE INFILTRATION COMPONENTS OF THE SYSTEM.
DO NOT PLACE SYSTEM INTO SERVICE UNTIL THE BMP HAS BEEN PLANTED AND ITS CONTRIBUTING AREAS HAVE BEEN FULLY STABILIZED.
DO NOT DISCHARGE SEDIMENT-LADEN WATERS FROM CONSTRUCTION ACTIVITIES (RUNOFF WATER FROM EXCAVATIONS) TO THE BIO-RETENTION AREA DURING ANY STAGE OF CONSTRUCTION.



NOTE: UD PIPE TO BE ENVELOPED IN A MIN. OF 4" WASHED STONE AS SHOWN.

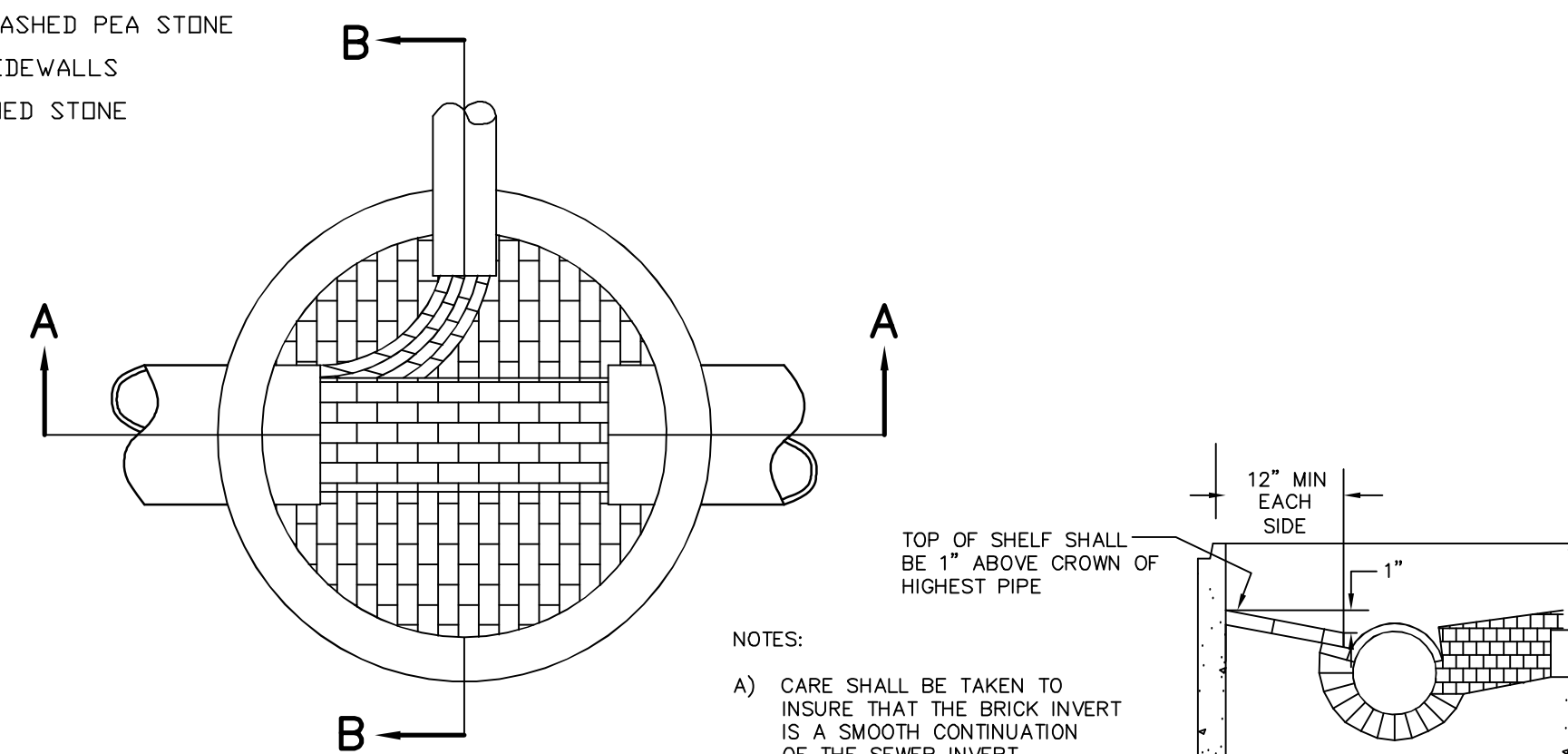
BIORETENTION SECTION
NOT TO SCALE



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.
2. THE ROCK OR GRAVEL USED FOR FILTER OF RIP RAP SHALL CONFORM TO THE SPECIFIED GRADATION. 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. STONE FOR RIPRAP SHALL BE ANGULAR OR SUBANGULAR. THE STONES SHOULD BE SHAPED SO THAT THE LEAST DIMENSION OF THE STONE FRAGMENT SHALL BE NOT LESS THAN ONE-THIRD OF THE GREATEST DIMENSION OF THE FRAGMENT.
6. FLAT ROCKS SHALL NOT USED FOR RIP RAP. VOIDS IN THE ROCK RIPRAP SHOULD BE FILLED WITH SPALLS AND SMALLER ROCKS.

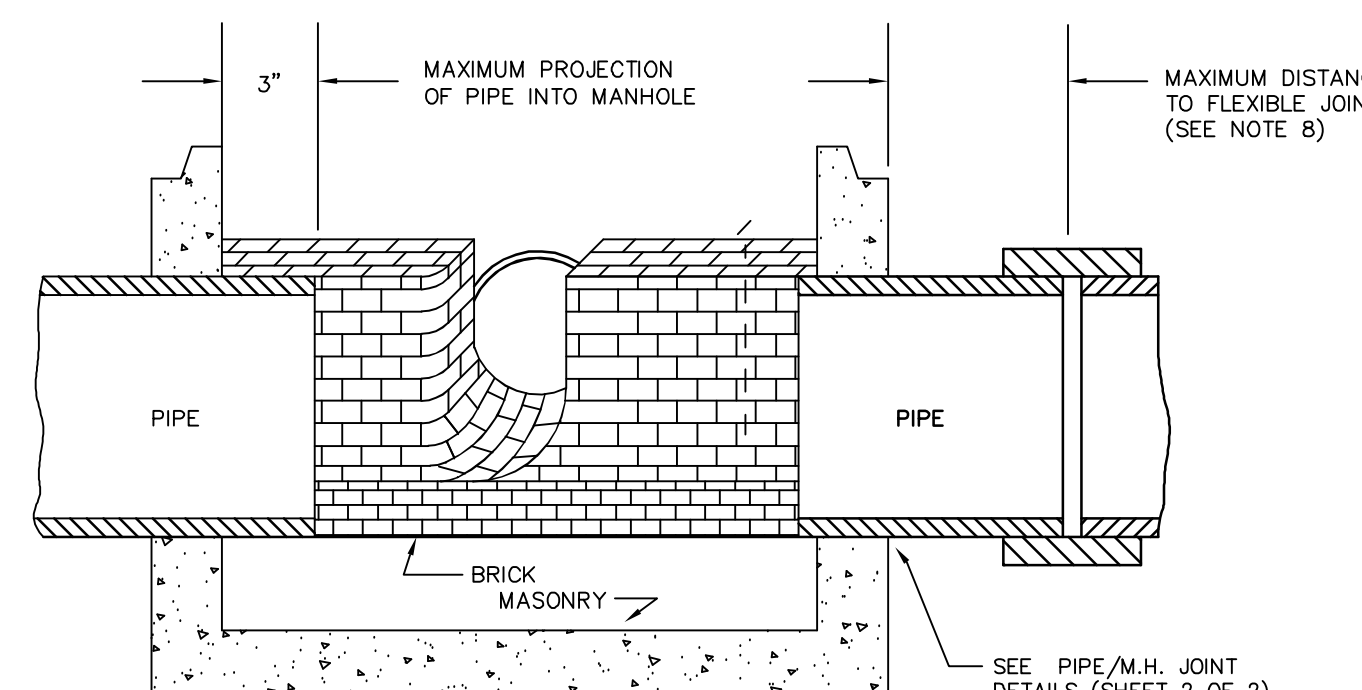
MAINTENANCE
1. THE OUTLET PROTECTION SHOULD BE CHECKED AT LEAST ANNUALLY AND AFTER EVERY MAJOR STORM. IF THE RIP RAP HAS BEEN DISPLACED, UNDERMINED OR DAMAGED, IT SHOULD BE REPAIRED IMMEDIATELY. THE CHANNEL IMMEDIATELY BELOW THE OUTLET SHOULD BE CHECKED TO SEE THAT EROSION IS NOT OCCURRING. THE DOWNSTREAM CHANNEL SHOULD BE KEPT CLEAR OF OBSTRUCTIONS SUCH AS FALLEN TREES, DEBRIS, AND SEDIMENT THAT COULD CHANGE FLOW PATTERNS AND/OR TAILWATER DEPTHS ON THE PIPES. REPAIRS MUST BE CARRIED OUT IMMEDIATELY TO AVOID ADDITIONAL DAMAGE TO OUTLET PROTECTION.

PIPE OUTLET PROTECTION
NOT TO SCALE



NOTES:
A) CARE SHALL BE TAKEN TO INSURE THAT THE BRICK INVERT IS A SMOOTH CONTINUATION OF THE SEWER INVERT. INVERT BRICKS SHALL BE LAID ON EDGE.
B) INVERT AND SHELF TO BE PLACED AFTER LEAKAGE TEST.

SECTION B-B

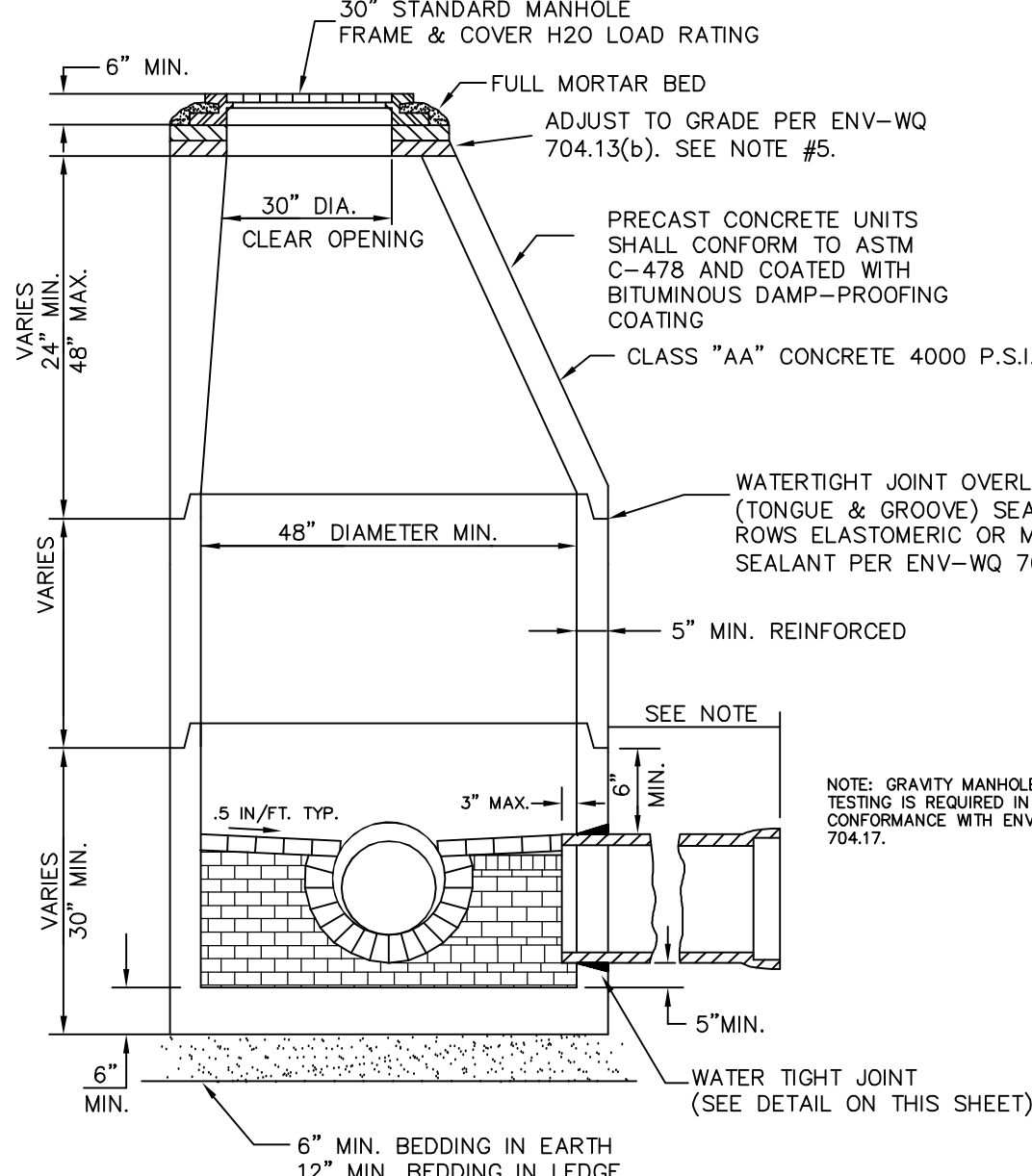


SECTION A-A

PIPE OUTLET PROTECTION

TABLE 7-24-RECOMMENDED RIP RAP GRADATION RANGES

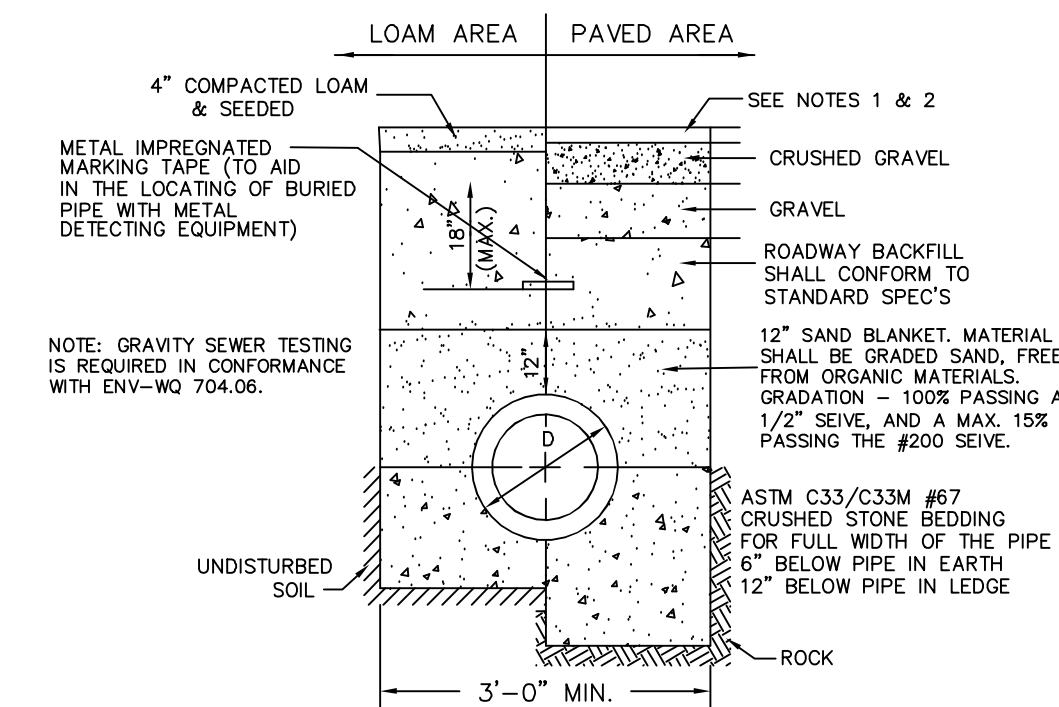
d50 SIZE=	FEET	3 INCHES
% OF WEIGHT SMALLER THAN THE GIVEN d50 SIZE	SIZE OF STONE(INCHES) FROM	TO
100%	5	6
85%	4	5
50%	3	5
15%	1	2



NOTE:
TYPE OF PIPE R.C.P. C.I. ALL V.C. > 12"

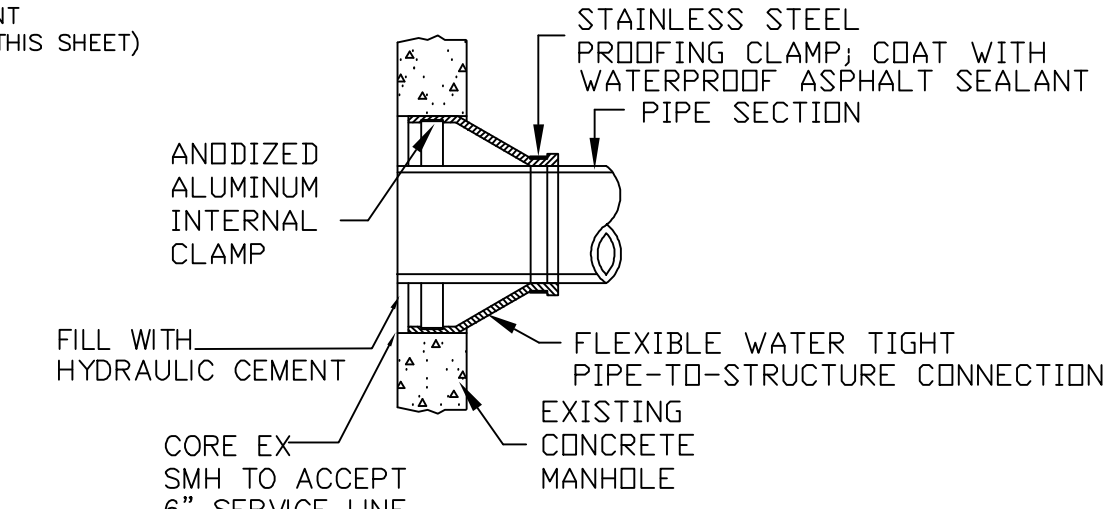
SEWER MANHOLE
NOT TO SCALE

UNDERLAYMENT OF MANHOLE INVERT AND SHELF SHALL BE BRICK MASONRY PER ENV-WQ 704.12(K). BRICK MASONRY SHALL CONFORM WITH ASTM C32 PER ENV-WQ (A)(9). MORTAR SHALL CONFORM WITH ENV-WQ 704.13 (C). MANHOLE STEPS ARE PROHIBITED.



NOTES:
1. PAVEMENT REPAIR IN EXISTING ROADWAYS SHALL MATCH EXISTING PAVEMENT DEPTHS.
2. NEW ROADWAY CONSTRUCTION SHALL CONFORM TO MUNICIPAL SPEC'S.
3. PLASTIC SEWER PIPE SHALL HAVE A PIPE STIFFNESS RATING OF AT LEAST 46 POUNDS PER SQUARE INCH AT 5 PERCENT PIPE DIAMETER DEFLECTION, AS MEASURED IN ACCORDANCE WITH ASTM D2412-02 DURING MANUFACTURE
STANDARD BACKFILL SPEC'S. (ENV-WQ 704.11(C))
-NATURAL MATERIALS EXCAVATED FROM THE TRENCH DURING CONSTRUCTION EXCLUDING:
1. DEBRIS;
2. PAVEMENT PIECES;
3. ORGANIC MATTER;
4. TOP SOIL;
5. WET OR SOFT MUCK;
6. PEAT OR CLAY;
7. EXCAVATED LEDGE;
8. ROCKS 3/4" IN LARGEST DIMENSION;
9. ANY MATERIAL NOT APPROVED BY THE ENGINEER

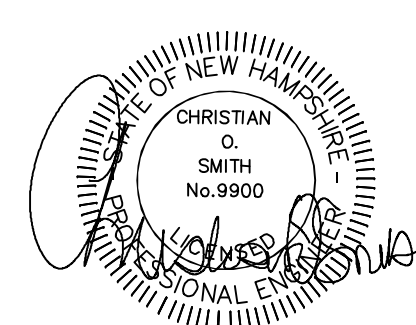
TYPICAL SEWER TRENCH DETAIL
NOT TO SCALE



NOTE: PIPE TO MANHOLE JOINTS SHALL CONFORM WITH ENV-WQ 704.12(g) - JOINT SEALS FOR PVC PIPE SHALL BE OIL RESISTANT COMPRESSION RINGS OF ELASTOMERIC MATERIAL CONFORMING TO ASTM D3212-96(A)(2003)E1 AND SHALL BE PUSH-ON, BELL-AND-SPIGOT TYPE
MANHOLE SEAL DETAIL
N.T.S.

PREPARED FOR:
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NEWMARKET, NH 03857

BA BEALS ASSOCIATES, PLLC
70 PORTSMOUTH AVE,
THIRD FLOOR, SUITE 2
STRATHAM, N.H. 03885
PHONE: 603-583-4860,
FAX: 603-583-4863



REVISIONS PER REVIEW COMMENTS	8-16-23
REVISIONS:	DATE:

CONSTRUCTION DETAILS D1
RESIDENTIAL DEVELOPMENT
TAX MAP U4, LOT 69
242 SOUTH MAIN STREET
NEWMARKET, NEW HAMPSHIRE

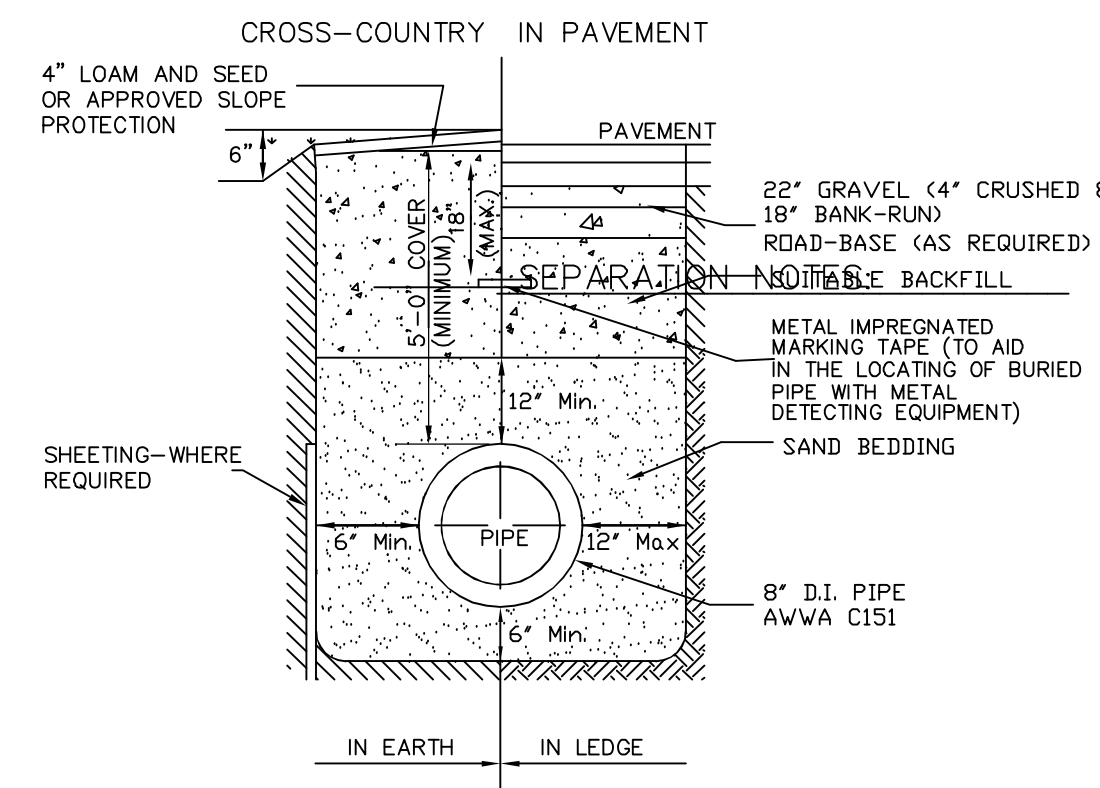
DATE:	MAY 2023	SCALE:	NTS
PROJ. NO:	NH-1449	SHEET NO.	8

PREPARED FOR:

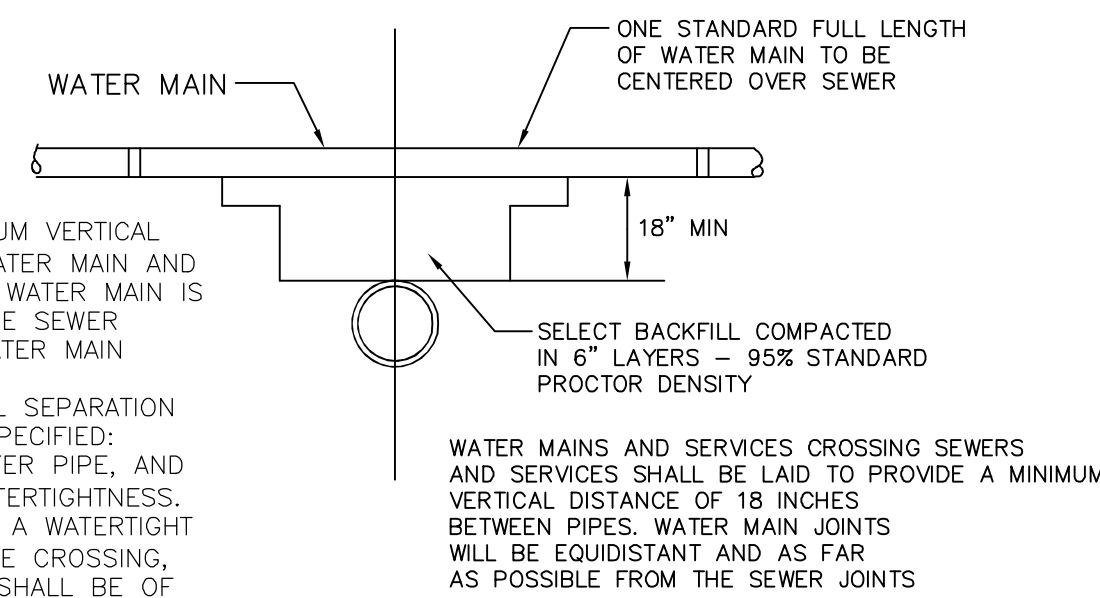
DR LEMIEUX BUILDERS, INC.
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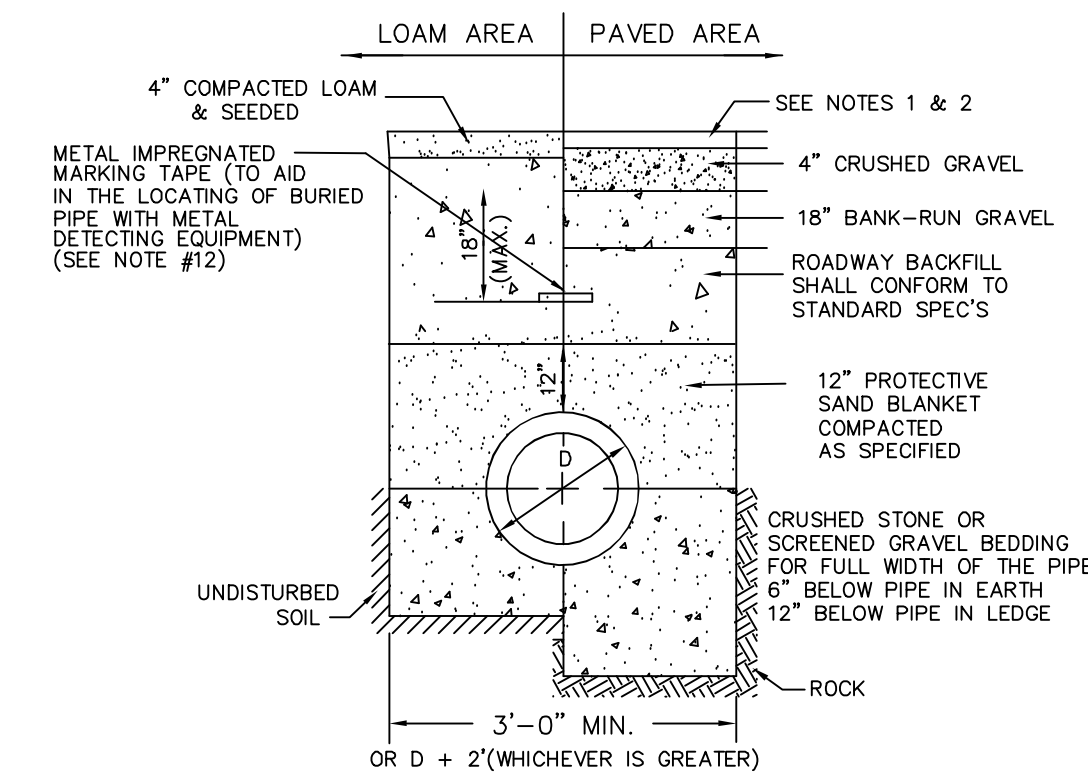
70 PORTSMOUTH AVE,
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STRATHAM, N.H. 03885
PHONE: 603-583-4860,
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TYPICAL TRENCH DETAIL FOR WATER SYSTEM

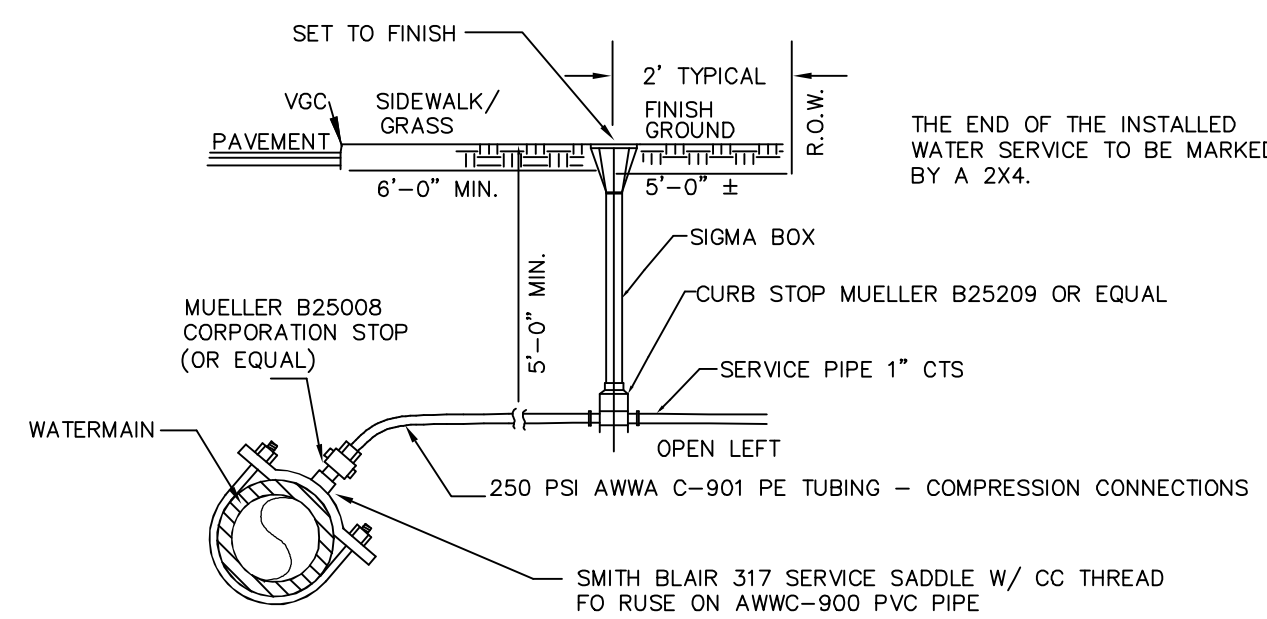


TYPICAL WATER/SEWER SEPERATION DETAILS NOT TO SCALE

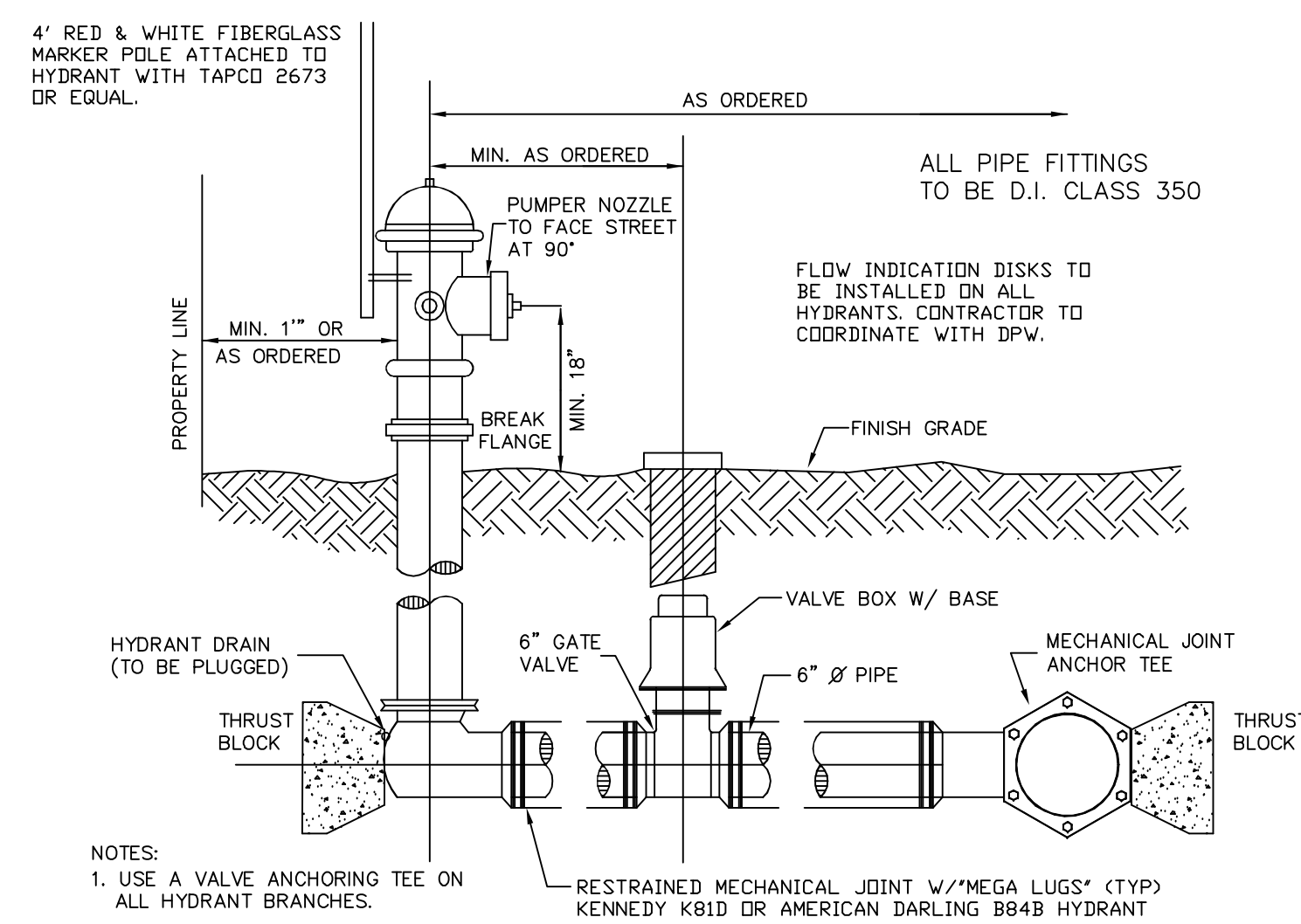


- NOTE:
1. PAVEMENT REPAIR IN EXISTING ROADWAYS SHALL CONFORM TO STREET OPENING REGULATIONS.
 2. NEW ROADWAY CONSTRUCTION SHALL CONFORM TO SUBDIVISION SPEC'S.

TYPICAL SEWER TRENCH DETAIL NOT TO SCALE

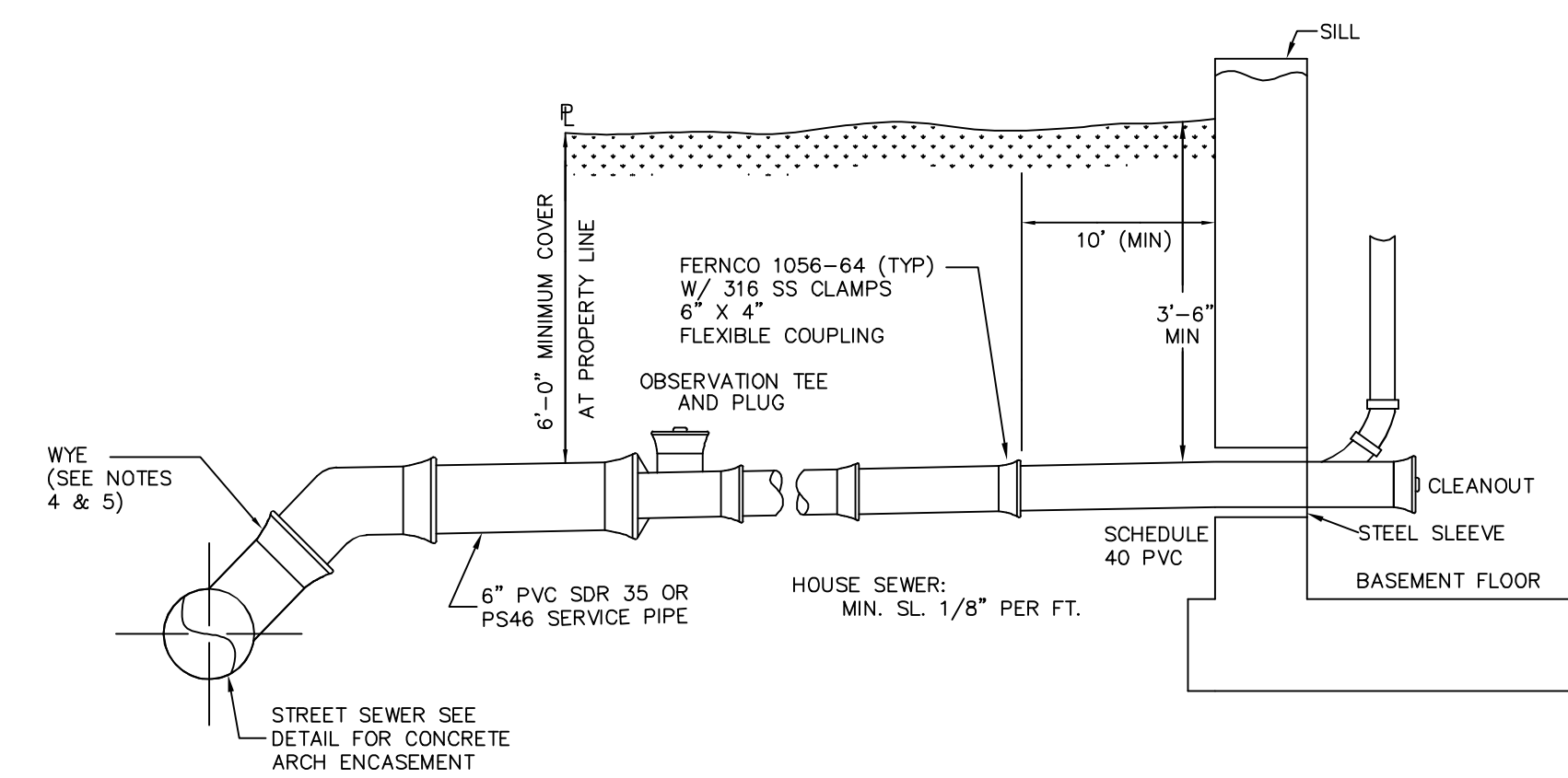


TYPICAL WATER SERVICE CONNECTION



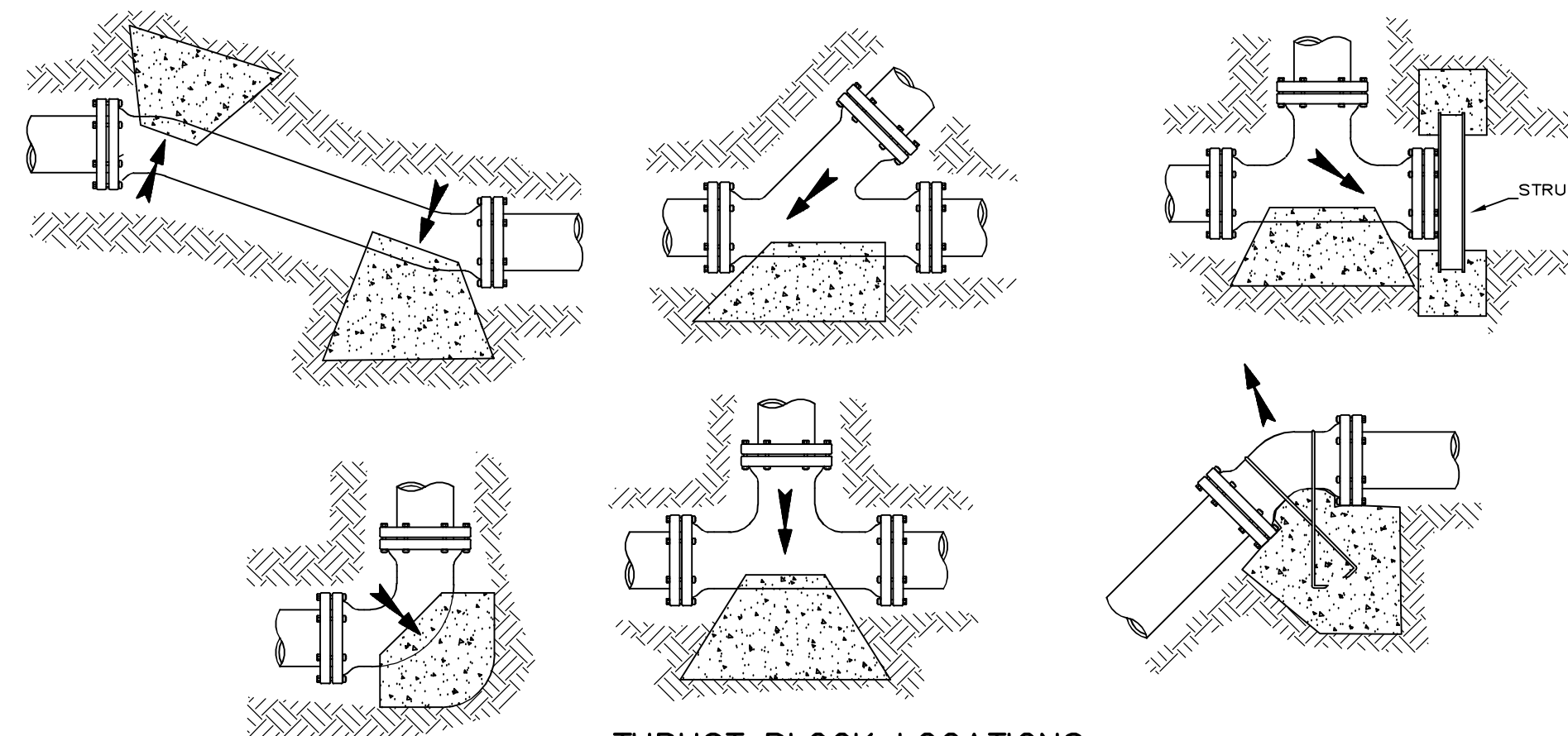
- NOTES:
1. USE A VALVE ANCHORING TEE ON ALL HYDRANT BRANCHES.
 2. ALL FITTINGS SHALL BE MEGALUG OR APPROVED EQUAL.
- HIGH PRESSURE HYDRANTS SHALL BE RED WITH YELLOW CAPS.

HYDRANT INSTALLATION DETAIL



- NOTES:
- 1) SEWER SERVICE FROM PROPERTY LINE TO 10' OUTSIDE OF BUILDING SHALL BE INSTALLED UNDER THIS CONTRACT ONLY WHEN OUTSIDE THE TRENCH DEWATERING OR LEDGE EXCAVATION IS REQUIRED.
 - 2) PIPE DEPTH AT HOUSE SHALL BE ABOVE THE SEASONAL GROUND WATER LEVEL.
 - 3) SEWER SHALL BE BELOW SLAB ONLY WHEN BASEMENT TOILETS EXIST.
 - 4) JOINTS SHALL BE DEPENDENT UPON A NEOPRENE OR ELASTOMERIC GASKET FOR WATER TIGHTNESS. ALL JOINTS SHALL BE PROPERLY MATCHED WITH THE PIPE MATERIALS USED. WHERE DIFFERING MATERIALS ARE TO BE CONNECTED, AS AT THE STREET SEWER WYE OR, AT THE FOUNDATION WALL, APPROPRIATE MANUFACTURED ADAPTERS SHALL BE USED.
 - 5) WYES: WHERE WYE IS NOT AVAILABLE, IN THE EXISTING STREET SEWER, AN APPROPRIATE CONNECTION SHALL BE MADE FOLLOWING MANUFACTURER'S INSTRUCTIONS USING A BOLTED, CLAMPED, OR EPOXY-CEMENTED SADDLE, TAPPED INTO A SMOOTHLY DRILLED OR SAWN OPENING IN THE SEWER.

DETAIL OF SEWER SERVICE



THRUST BLOCK LOCATIONS TYPICAL THRUST BLOCK DETAILS NOT TO SCALE

THRUST FORCES ARE CREATED IN A PIPELINE AT CHANGES IN DIRECTION, TEE, DEADENDS OR WHERE CHANGES IN PIPE SIZE OCCUR AT REDUCERS. AVAILABLE RESTRAINT METHODS INCLUDE CONCRETE THRUST BLOCKS, RESTRAINED JOINTS AND TIE RODS. FORCES TO BE RESTRAINED ARE SHOWN BELOW:

RESULTANT THRUST AT FITTINGS @ 100 PSI (TOTAL POUNDS)					
NOM. PIPE DIA. (IN.)	DEAD END	90° BEND	45° BEND	22 1/2° BEND	11 1/4° BEND
4	1810	2559	1385	706	355
6	3739	5288	2852	1450	733
8	6333	8923	4925	2510	1281
10	9877	13685	7406	3776	1897
12	13685	19353	10274	5340	2683
14	18383	26001	14072	7174	3604
16	23779	33928	18188	9276	4681
18	29885	42243	22858	11653	5855
20	36644	51072	28046	14298	7183
24	52279	73934	40013	20388	10248
30	80245	113745	59046	30388	15176
36	115209	162931	88177	44952	22585
42	155528	216950	119036	60824	30489
48	202583	286650	155127	79083	39733
54	258072	362140	195989	99914	50109

NOTE: TO DETERMINE THRUST AT PRESSURES OTHER THAN 100 PSI, MULTIPLY THE THRUST OBTAINED IN THE TABLE BY THE RATIO OF THE PRESSURE TO 100. FOR EXAMPLE: THE THRUST ON A 12", 90° BEND @ 125 PSI IS: 19353x125/100 = 24191 LBS.

TO DETERMINE THE SIZE OF A CONCRETE THRUST BLOCK, DIVIDE THE TOTAL FORCE BY THE BEARING VALUE OF THE CONSTITUENT SOIL. THE QUOTIENT WILL BE THE SIZE OF THE BEARING OF THE THRUST BLOCK IN SQUARE FEET. APPROXIMATE VALUES FOR VARIOUS TYPES OF SOIL ARE LISTED BELOW. NO RESPONSIBILITY CAN BE ASSUMED FOR THE ACCURACY OF THE DATA REPRESENTED DUE TO THE WIDE VARIATION OF BEARING VALUES FOR EACH SOIL TYPE.

SOIL	BEARING CAPACITY (PSF)
MUCK	0
SOFT CLAY	1000
SILT	1500
SANDY SILT	3000
SAND	4000
SANDY CLAY	6000
HARD CLAY	9000

- THE FOLLOWING PRECAUTIONS MUST BE OBSERVED WHEN CONSTRUCTING BLOCKS:
1. BLOCKS MUST BE POURED AGAINST UNDISTURBED SOIL.
 2. PIPE JOINTS AND BOLTS MUST BE ACCESSIBLE.
 3. CONCRETE SHOULD BE CURED AT LEAST 5 DAYS AND SHALL HAVE A COMPRESSIVE STRENGTH OF 2000 PSI AT 28 DAYS.
 4. BLOCKS MUST BE POSITIONED TO COUNTERACT THE DIRECTION OF THE RESULTANT THRUST FORCE.

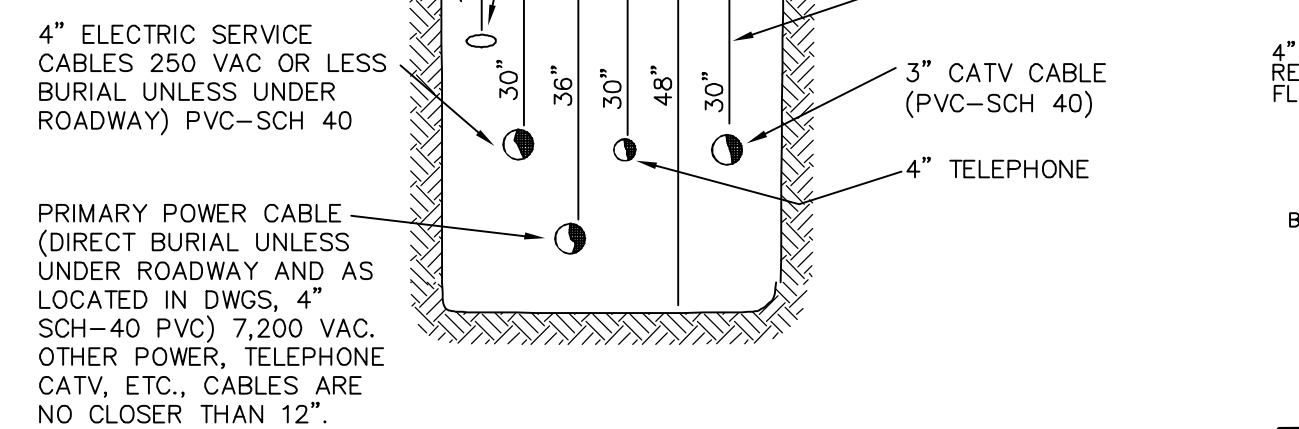
RESTRAINED PUSH-ON AND MECHANICAL JOINTS ARE AVAILABLE FOR ALL PIPE SIZES AND PRESENT NO INSTALLATION PROBLEMS. THEY ARE USED FOR RESISTING THRUST FORCES WHERE THERE IS NO SPACE OR WHERE SOIL BEHIND THE FITTING WILL NOT PROVIDE ADEQUATE SUPPORT. THIS RESTRAINING METHOD INVOLVES THE PLACEMENT OF THESE SPECIAL JOINTS AT APPROPRIATE FITTINGS AND FOR A PREDETERMINED NUMBER OF PIPE LENGTHS ON EACH SIDE.

TIE RODS MAY BE USED BY THEMSELVES OR IN COMBINATION WITH OTHER RESTRAINT DEVICES. WHEN TIE RODS ARE USED WITH STEEL BANDS AROUND THE PIPE BARREL, ONLY ONE(1) ROD SHALL BE ATTACHED TO EACH BAND AND THE BAND SHALL BE COATED TO PREVENT SURFACE ALONG THE PIPE BARREL. A BAND PLACED BEHIND A BELL MAY BE USED WITH TWO(2) RODS. FOR MECHANICAL JOINT PIPE, TIE RODS MAY BE THREADED THROUGH THE BOLT HOLES IN A FLANGE AND SECURED BY NUTS. ALL RODS SHALL BE MADE OF OR COATED WITH CORROSION RESISTANT MATERIALS TO PREVENT RUST AND DETERIORATION.

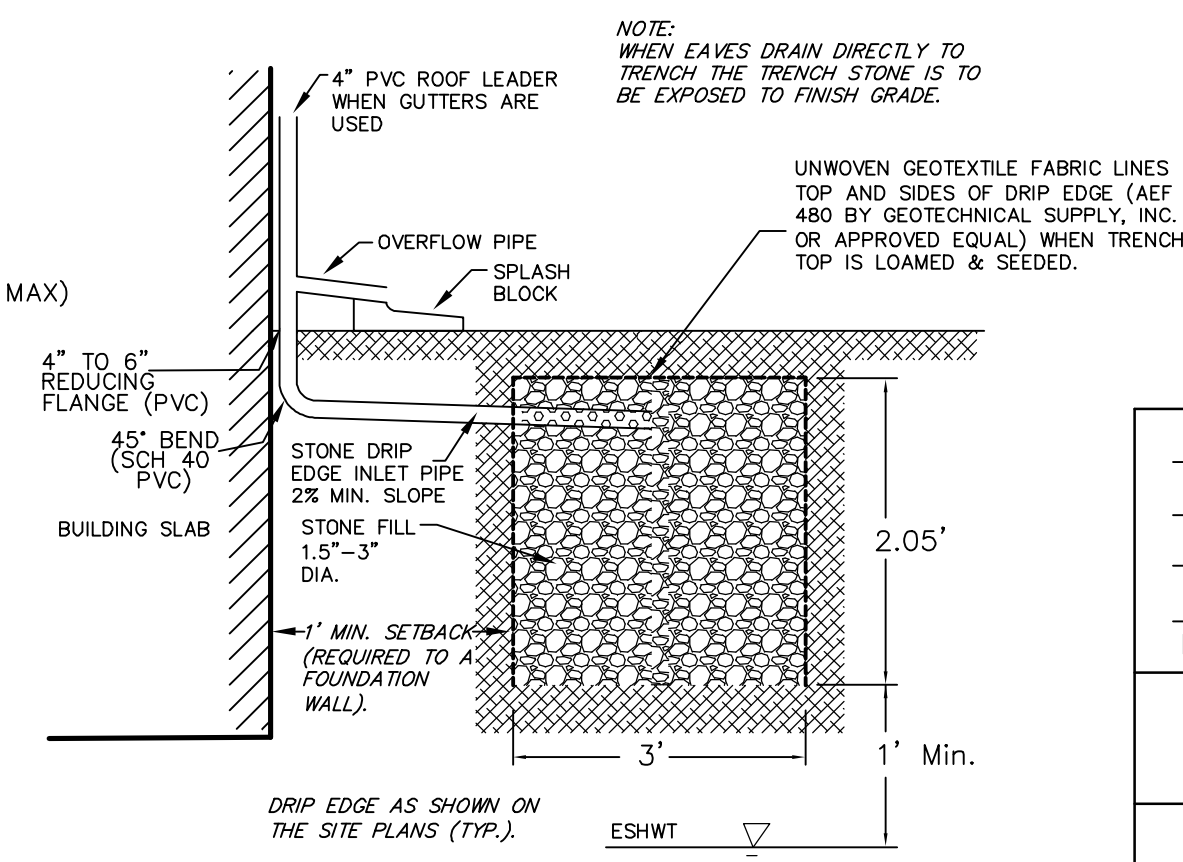
RESTRAINT MAY BE NECESSARY FOR MORE THAN ONE (1) PIPE LENGTH ON EACH SIDE OF ANY CHANGE IN DIRECTION, DEADEND OR TEE.

NOTE: ALL UTILITIES SHALL BE REVIEWED AND APPROVED BY APPROPRIATE UTILITY COMPANY.

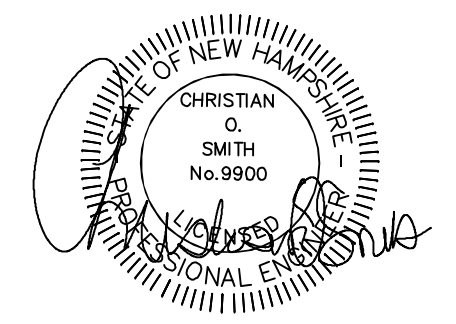
SERVICE BOX CONNECTIONS SHALL BE "FLUSH MOUNT" TO GREATEST EXTENT POSSIBLE AND LOCATED AT PROPERTY LINE CORNERS.



UTILITY TRENCH DETAIL



STONE DRIP EDGE SECTION NOT TO SCALE



REVISIONS PER REVIEW COMMENTS	8-16-23
REVISIONS:	DATE:

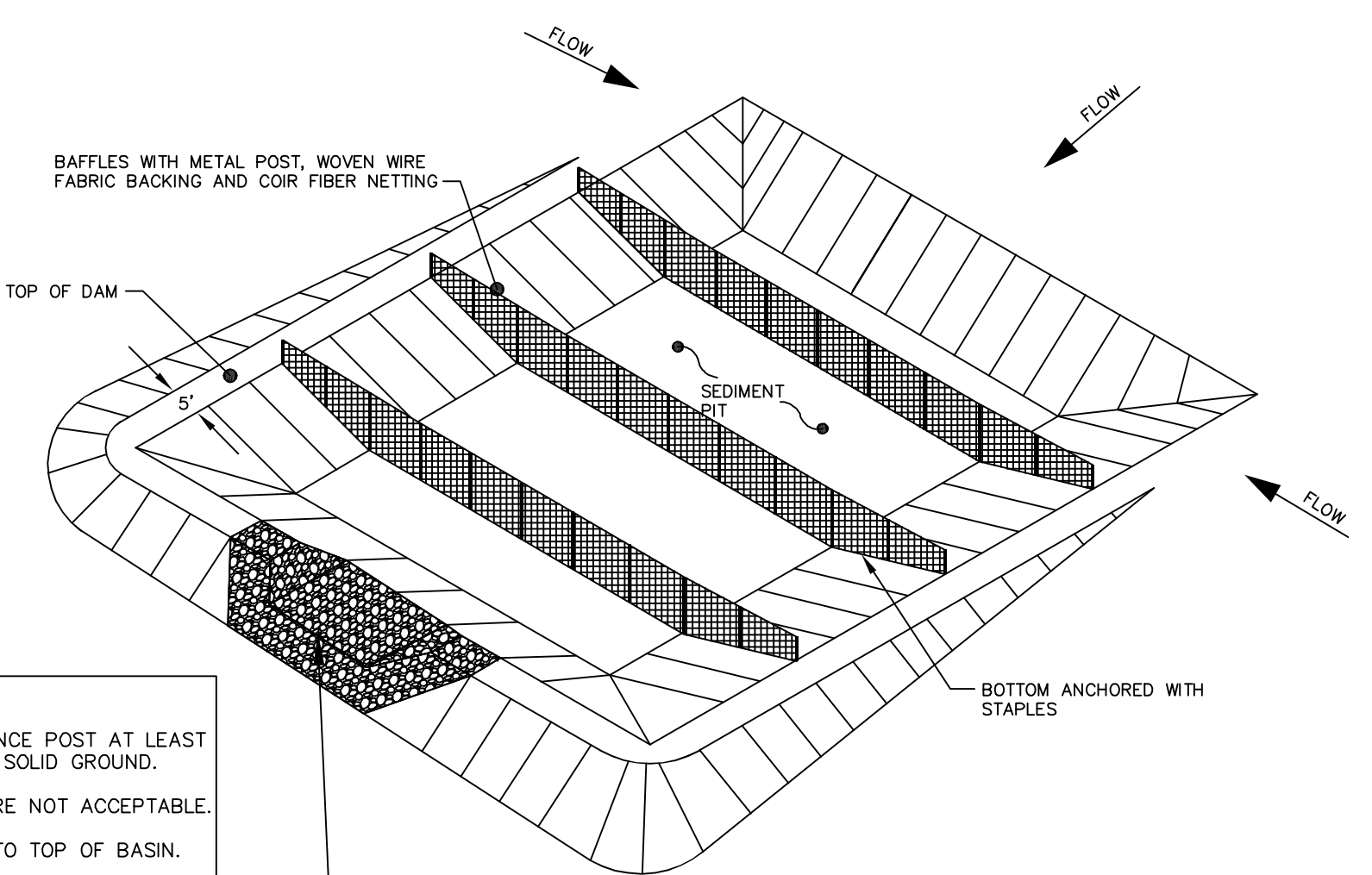
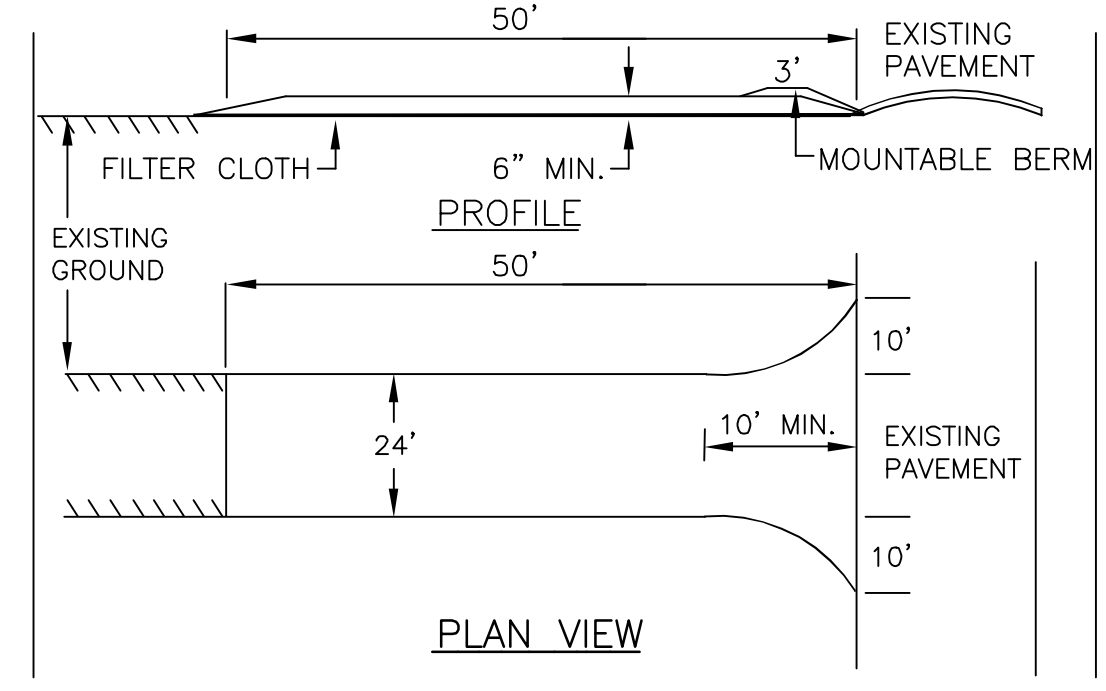
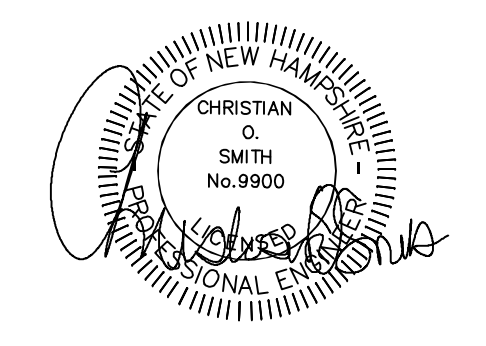
CONSTRUCTION DETAILS D2

RESIDENTIAL DEVELOPMENT
TAX MAP U4, LOT 69
242 SOUTH MAIN STREET
NEWMARKET, NEW HAMPSHIRE

DATE:	MAY 2023	SCALE:	NTS
PROJ. NO:	NH-1449	SHEET NO.	10

PREPARED FOR:
DR LEMIEUX BUILDERS, INC.
 76 EXETER ROAD
 NEWMARKET, NH 03857

BA BEALS ASSOCIATES, PLLC
 70 PORTSMOUTH AVE,
 THIRD FLOOR, SUITE 2
 STRATHAM, N.H. 03885
 PHONE: 603-583-4860,
 FAX: 603-583-4863



- NOTES:**
1. DRIVE STEEL FENCE POST AT LEAST 18 INCHES INTO SOLID GROUND.
 2. WOOD POSTS ARE NOT ACCEPTABLE.
 3. DIRECT WATER TO TOP OF BASIN.
 4. THERE SHALL BE NO PLASTIC, MULTI-FILAMENT OR MONOFILAMENT POLYPROPYLENE NETTING OR MESH WITH AN OPENING SIZE GREATER THAN 1/8" MATERIAL UTILIZED.

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

STABILIZED CONSTRUCTION ENTRANCE

TEMPORARY EROSION CONTROL MEASURES

1. THE SMALLEST PRACTICAL AREA SHALL BE DISTURBED DURING CONSTRUCTION, BUT NO MORE THAN 5 ACRES OF LAND SHALL BE EXPOSED BEFORE DISTURBED AREAS ARE STABILIZED*. LIMIT EXPOSURE OF UNSTABILIZED SOIL TO 45-DAYS OR LESS.
 - PERIMETER CONTROLS MUST BE INSTALLED PRIOR TO EARTH MOVING OPERATIONS.
 - STORMWATER PONDS, INFILTRATION BASINS AND SWALES MUST BE INSTALLED BEFORE ROUGH GRADING THE SITE.
 - RUNOFF MUST BE DIRECTED TO TEMPORARY PRACTICES UNTIL STORMWATER BMPs ARE STABILIZED.
 - STORMWATER PONDS, INFILTRATION BASINS AND SWALES MUST BE STABILIZED PRIOR TO DIRECTING RUNOFF TO THEM.
 - EROSION CONTROL PRACTICES ARE TO BE INSPECTED WEEKLY AND AFTER 0.5" OF RAINFALL.
 - CUT AND FILL SLOPES MUST BE STABILIZED WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE.
 - ROADWAYS AND PARKING AREAS MUST BE STABILIZED WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE.
 2. EROSION, SEDIMENT AND DETENTION MEASURES SHALL BE INSTALLED AS SHOWN ON THE PLANS AND AT LOCATIONS AS REQUIRED OR DIRECTED BY THE ENGINEER ALL DISTURBED AREAS SHALL BE RETURNED TO ORIGINAL GRADES AND ELEVATIONS.
 3. DISTURBED AREAS SHALL BE LOAMED WITH A MINIMUM OF 4" OF LOAM AND SEEDED WITH NOT LESS THAN 1.10 POUNDS OF SEED PER 1000 SQUARE FEET OF AREA. (48 POUNDS PER ACRE) SEE SEED SPECIFICATIONS THIS SHEET.
 4. SILT FENCES AND OTHER EROSION CONTROLS SHALL BE INSPECTED WEEKLY AND AFTER EVERY RAIN EVENT GREATER THAN 0.5" 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. AREAS MUST BE SEEDED AND MULCHED WITHIN 3 DAYS OF FINAL GRADING, PERMANENTLY STABILIZED WITHIN 15 DAYS OF FINAL GRADING, OR TEMPORARILY STABILIZED WITHIN 30 DAYS OF INITIAL DISTURBANCE OF SOIL.
- * AN AREA SHALL BE CONSIDERED STABLE IF ONE OF THE FOLLOWING HAS OCCURRED:
- IN AREAS TO BE PAVED, BASE COURSE GRAVELS MEETING THE REQUIREMENTS OF NHDOT STANDARD FOR ROAD AND BRIDGE CONSTRUCTION, 2016, ITEM 304.2 HAVE BEEN INSTALLED.
 - A MINIMUM OF 85% VEGETATED GROWTH HAS BEEN ESTABLISHED.
 - A MINIMUM OF 3 INCHES OF NON-EROSIVE MATERIAL SUCH AS RIPRAP HAS BEEN INSTALLED.
 - EROSION CONTROL BLANKETS HAVE BEEN PROPERLY INSTALLED.

CONSTRUCTION SPECIFICATIONS

1. STRUCTURES SHALL BE INSTALLED ACCORDING TO THE DIMENSIONS SHOWN ON THE PLANS AT THE APPROPRIATE SPACING.
2. CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER SO THAT EROSION AND AIR AND WATER POLLUTION WILL BE MINIMIZED.
3. WHEN TIMBER STRUCTURES ARE USED, THE TIMBER SHALL EXTEND AT LEAST 18" INTO THE SOIL.
4. STRAW BALES SHALL BE ANCHORED INTO THE SOIL USING 2" X 2" STAKES DRIVEN THROUGH THE BALES AND AT LEAST 18 INCHES IN TO THE SOIL.
5. SEEDING, FERTILIZING, AND MULCHING SHALL CONFORM TO THE RECOMMENDATIONS IN THE APPROPRIATED VEGETATIVE BMP.
6. STRUCTURES SHALL BE REMOVED FROM THE CHANNEL WHEN THEIR USEFUL LIFE HAS BEEN COMPLETED.
7. THROUGHOUT THE DURATION OF CONSTRUCTION ACTIVITIES THE CONTRACTOR SHALL TAKE PRECAUTIONS AND INSTRUCTIONS FROM THE PLANNING DEPARTMENT IN ORDER TO PREVENT, ABATE AND CONTROL THE EMISSION OF FUGITIVE DUST INCLUDING BUT NOT LIMITED TO WETTING, COVERING, SHIELDING, OR VACUUMING.
8. THE NH COMMISSIONER OF AGRICULTURE PROHIBITS THE COLLECTION, POSSESSION, IMPORTATION, TRANSPORTATION, SALE, PROPAGATION, TRANSPLANTATION, OR CULTIVATION OF PLANTS BANNED BY NH LAW RSA 430:53 AND NH CODE ADMINISTRATIVE RULES AGR 3800. THE PROJECT SHALL MEET ALL REQUIREMENTS AND THE INTENT OF RSA 430:53 AND AGR 3800 RELATIVE TO INVASIVE SPECIES
9. IN THE EVENT THAT GREATER THAN ONE ACRE OF CONTIGUOUS DISTURBANCE OCCURS, THE CONSTRUCTION SITE OPERATOR AND OWNER SHALL SUBMIT A NOTICE OF INTENT (NOI) TO USEPA, WASHINGTON, DC, STORMWATER NOTICE PROCESSING CENTER AT LEAST FOURTEEN DAYS PRIOR TO COMMENCEMENT OF WORK ON SITE. EPA WILL POST THE NOI AT <http://cfpubl.epa.gov/npdes/stormwater/noi/noisearch.cfm>. AUTHORIZATION IS GRANTED UNDER THE PERMIT ONCE THE NOI IS SHOWN IN "ACTIVE STATUS".

CONSTRUCTION SEQUENCE

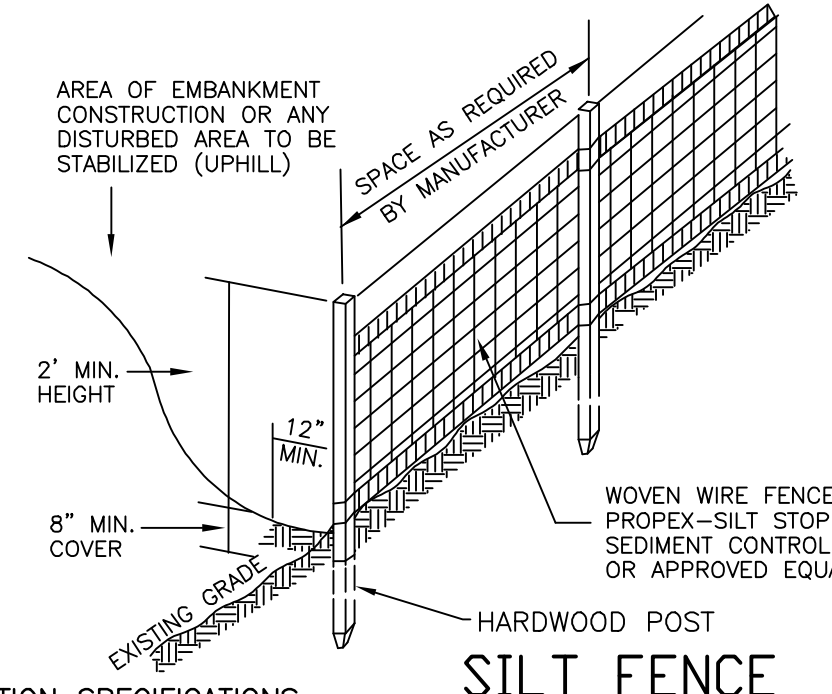
1. CUT AND REMOVE TREES IN CONSTRUCTION AREAS AS REQUIRED OR DIRECTED.
2. CONSTRUCT AND/OR INSTALL TEMPORARY AND PERMANENT SEDIMENT EROSION AND DETENTION CONTROL FACILITIES AS REQUIRED. EROSION, SEDIMENT AND DETENTION CONTROL FACILITIES SHALL BE INSTALLED AND STABILIZED PRIOR TO ANY EARTH MOVING OPERATION AND PRIOR TO DIRECTING RUNOFF TO THEM.
3. CLEAR, CUT, GRUB AND DISPOSE OF DEBRIS IN APPROVED FACILITIES. STUMPS AND DEBRIS ARE TO BE REMOVED FROM SITE AND DISPOSED OF PER STATE AND LOCAL REGULATIONS.
4. EXCAVATE AND RECLAIM TOPSOIL/LOAM. ALL AREAS SHALL BE STABILIZED IMMEDIATELY AFTER GRADING.
5. CONSTRUCT TEMPORARY CULVERTS AS REQUIRED OR DIRECTED.
6. CONSTRUCT THE ROADWAY AND ITS ASSOCIATED DRAINAGE STRUCTURES. ALL ROADWAYS, AND CUT/FILL SLOPES SHALL BE STABILIZED AND/OR LOAMED AND SEEDED WITHIN 72-HOURS OF ACHIEVING FINISH GRADE AS APPLICABLE.
7. INSTALL PIPE AND CONSTRUCTION ASSOCIATED APPURTENANCES AS REQUIRED OR DIRECTED. 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 SEEDED OR MULCHED AS REQUIRED, OR DIRECTED.
9. DAILY OR AS REQUIRED, CONSTRUCT TEMPORARY BERMS, DRAINAGE CHECK DAMS, DITCHES, SEDIMENT TRAPS, ETC. TO PREVENT EROSION ON THE SITE AND PREVENT ANY SILTATION OF ABUTTING WATERS OR PROPERTY.
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. SMOOTH AND REVEGETATE ALL DISTURBED AREAS.
13. ALL SWALES AND DRAINAGE STRUCTURES WILL BE CONSTRUCTED AND STABILIZED PRIOR TO HAVING RUNOFF DIRECTED TO THEM.
14. FINISH PAVING ALL ROADWAYS.
15. LOT DISTURBANCE OTHER THAN THAT SHOWN ON THE APPROVED PLANS SHALL NOT COMMENCE UNTIL THE ROADWAY HAS THE CRUSHED STONE COURSE TO DESIGN ELEVATION/REQUIRED COMPACTION AND THE ASSOCIATED DRAINAGE IS COMPLETE AND STABLE.

WINTER MAINTENANCE

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 OCT. 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.

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 SEEDBED 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 100 LBS PER 1,000 SQ. FT.
 - NITROGEN(N), 50 LBS PER ACRE OR 1. 1 LBS PER 1,000 SQ.FT.
 - PHOSPHATE(P2O5), 100 LBS PER ACRE OR 2. 2 LBS PER 1,000 SQ.FT.
 - POTASH(K2O), 100 LBS PER ACRE OR 2. 2 LBS PER 1,000 SQ.FT.
 (NOTE: THIS IS THE EQUIVALENT OF 500 LBS PER ACRE OF 10-20-20 FERTILIZER OR 1,000 LBS PER ACRE OF 5-10-10.)
 - B. SEED SHOULD BE SPREAD UNIFORMLY BY THE METHOD MOST APPROPRIATE FOR THE SITE. METHODS INCLUDE BROADCASTING, DRILLING AND HYDROSEEDING. WHERE BROADCASTING IS USED, COVER SEED WITH .25 INCH OF SOIL OR LESS, BY OULTPACKING OR RAKING.
 - C. REFER TO TABLE(G-E) THIS SHEET FOR APPROPRIATE SEED MIXTURES AND TABLE(H-E) THIS SHEET FOR RATES OF SEEDING. ALL LEGUMES (CROWN VETCH, BIRDS FOOT TREFLOIL, AND FLAT PEA) 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 90 LBS PER 1000 SQ. FT.
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.



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".
2. THE FENCE POSTS SHALL BE A MINIMUM 48" LONG, SPACED A MAXIMUM 10' APART, AND DRIVEN A MINIMUM OF 16" INTO THE GROUND. THERE SHALL BE NO PLASTIC, MULTI-FILAMENT OR MONOFILAMENT POLYPROPYLENE NETTING OR MESH WITH AN OPENING SIZE GREATER THAN 8" MATERIAL UTILIZED.
3. 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.
4. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND SEDIMENT REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE AND PROPERLY DISPOSED OF.
5. PLACE THE ENDS OF THE SILT FENCE UP CONTOUR TO PROVIDE FOR SEDIMENT STORAGE.
6. SILT FENCES SHALL BE REMOVED WHEN NO LONGER NEEDED AND THE SEDIMENT COLLECTED SHALL BE DISPOSED AS DIRECTED BY THE ENGINEER. THE AREA DISTURBED BY THE REMOVAL SHALL BE SMOOTHED AND RE-VEGETATED

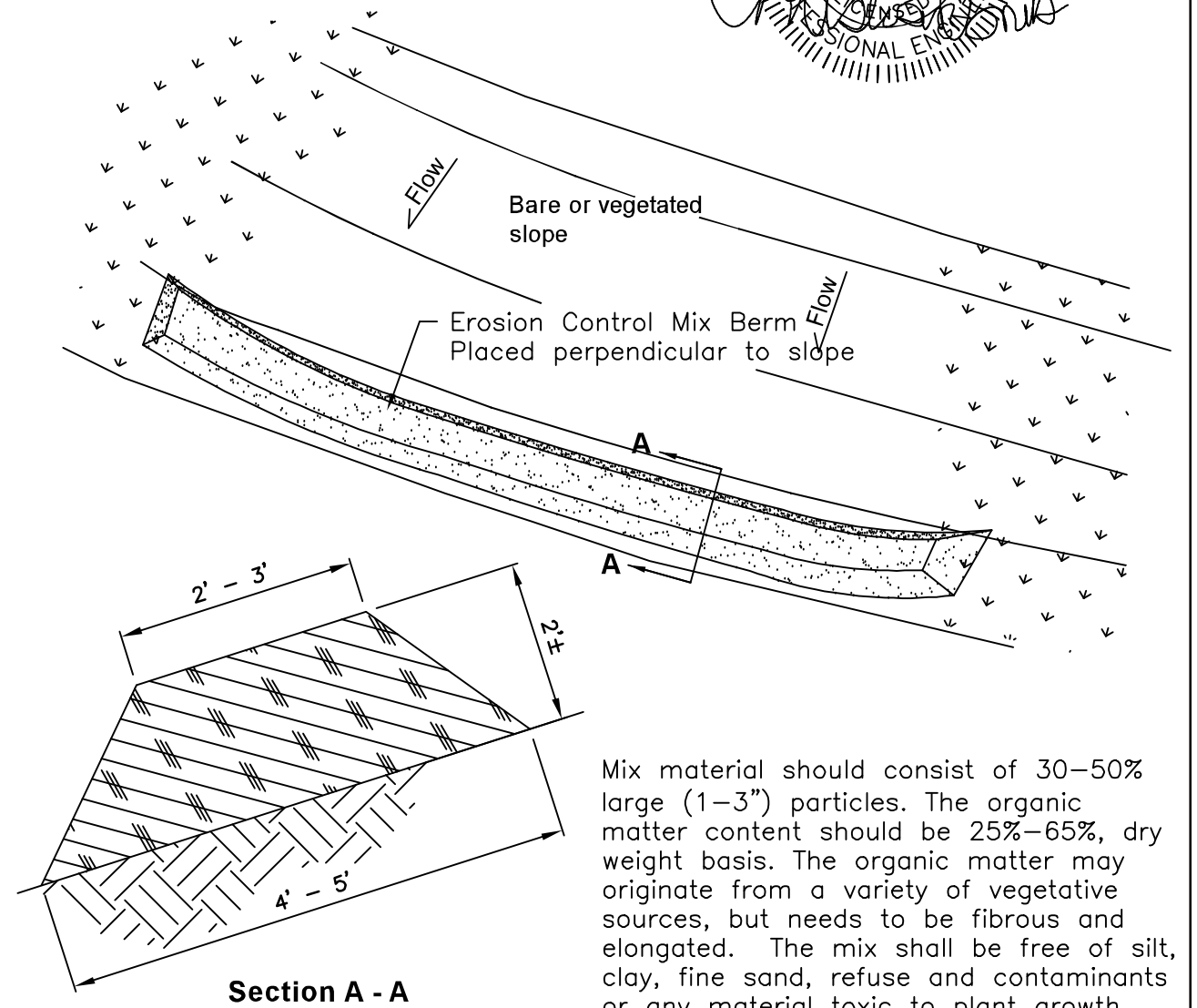
MAINTENANCE

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 INSPECTED AFTER EVERY STORM EVENT. THE DEPOSITS SHOULD BE REMOVED WHEN THEY REACH APPROXIMATELY ONE HALF THE HEIGHT OF THE BARRIER.
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.

SEEDING GUIDE

USE	SEEDING MIXTURE	DROUGHTY				WELL DRAINED		MODERATELY WELL DRAINED		POORLY DRAINED	
		1/	2/	3/	4/	5/	6/	7/	8/	9/	10/
STEEP CUTS AND FILLS, BORROW AND DISPOSAL AREAS	A	FAIR	GOOD	GOOD	GOOD	GOOD	GOOD	GOOD	GOOD	FAIR	FAIR
	B	POOR	POOR	GOOD	GOOD	EXCELLENT	EXCELLENT	EXCELLENT	EXCELLENT	FAIR	FAIR
	C	FAIR	FAIR	FAIR	GOOD	GOOD	GOOD	GOOD	GOOD	EXCELLENT	EXCELLENT
	D	FAIR	FAIR	EXCELLENT	EXCELLENT	EXCELLENT	EXCELLENT	EXCELLENT	EXCELLENT	EXCELLENT	EXCELLENT
WATERWAYS, EMERGENCY CHANNELS WITH FLOWING WATER	A	GOOD	GOOD	GOOD	GOOD	GOOD	GOOD	GOOD	GOOD	FAIR	FAIR
	B	GOOD	GOOD	GOOD	GOOD	GOOD	GOOD	GOOD	GOOD	FAIR	FAIR
	C	GOOD	GOOD	EXCELLENT	EXCELLENT	EXCELLENT	EXCELLENT	EXCELLENT	EXCELLENT	FAIR	FAIR
	D	GOOD	GOOD	EXCELLENT	EXCELLENT	EXCELLENT	EXCELLENT	EXCELLENT	EXCELLENT	FAIR	FAIR
LIGHTLY USED PARKING LOTS, ODD AREAS, UNUSED LANES, AND RECREATION SITES	A	GOOD	GOOD	GOOD	GOOD	GOOD	GOOD	GOOD	GOOD	FAIR	FAIR
	B	GOOD	GOOD	GOOD	GOOD	GOOD	GOOD	GOOD	GOOD	POOR	POOR
	C	GOOD	GOOD	EXCELLENT	EXCELLENT	EXCELLENT	EXCELLENT	EXCELLENT	EXCELLENT	FAIR	FAIR
	D	GOOD	GOOD	EXCELLENT	EXCELLENT	EXCELLENT	EXCELLENT	EXCELLENT	EXCELLENT	EXCELLENT	EXCELLENT
PLAY AREAS AND ATHLETIC FIELDS (TOPSOIL IS ESSENTIAL FOR GOOD TURF)	F	FAIR	FAIR	EXCELLENT	EXCELLENT	EXCELLENT	EXCELLENT	EXCELLENT	EXCELLENT	2/	2/
	G	FAIR	FAIR	EXCELLENT	EXCELLENT	EXCELLENT	EXCELLENT	EXCELLENT	EXCELLENT	2/	2/

GRAVEL PIT, SEE NH-PM-24 IN APPENDIX FOR RECOMMENDATION REGARDING RECLAMATION OF SAND AND GRAVEL PITS.
 REFER TO SEEDING MIXTURES AND RATES IN TABLE 7-36.
 POORLY DRAINED SOILS ARE NOT DESIRABLE FOR USE AS PLAYING AREA AND ATHLETIC FIELDS.
 NOTE: TEMPORARY SEED MIX FOR STABILIZATION OF TURF SHALL BE WINTER RYE OR DATS 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.



Mix material should consist of 30-50% large (1-3") particles. The organic matter content should be 25%-65%, dry weight basis. The organic matter may originate from a variety of vegetative sources, but needs to be fibrous and elongated. The mix shall be free of silt, clay, fine sand, refuse and contaminants or any material toxic to plant growth. Erosion Control Mix berms are effective filters for overland flow conditions and should not be used to filter concentrated flow such as that found in drainage ditches, streams, etc.

Erosion Control Mix Berm

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	10	0.25
CROWN VETCH	15	0.35
OR FLAT PEA	30	0.75
TOTAL	40 OR 55	0.95 OR 1.35
C. TALL FESCUE	20	0.45
CREeping RED FESCUE	20	0.45
BIRDS FOOT TREFLOIL	8	0.20
TOTAL	48	1.10
D. TALL FESCUE	20	0.45
FLAT PEA	30	0.75
TOTAL	50	1.20
E. CREeping RED FESCUE 1/	50	1.15
KENTUCKY BLUEGRASS 1/2	50	1.15
TOTAL	100	2.30
F. TALL FESCUE 1	150	3.60

1/ FOR HEAVY USE ATHLETIC FIELDS CONSULT THE UNIVERSITY OF NEW HAMPSHIRE COOPERATIVE EXTENSION TURF SPECIALIST FOR CURRENT VARIETIES AND SEEDING RATES.

REVISIONS: _____ DATE: _____

EROSION & SEDIMENTATION

RESIDENTIAL DEVELOPMENT
 TAX MAP U4, LOT 69
 242 SOUTH MAIN STREET
 NEWMARKET, NEW HAMPSHIRE

DATE:	MAY 2023	SCALE:	NTS
PROJ. NO:	NH-1449	SHEET NO.	11

