RESIDENTIAL LAND SUBDIVISION

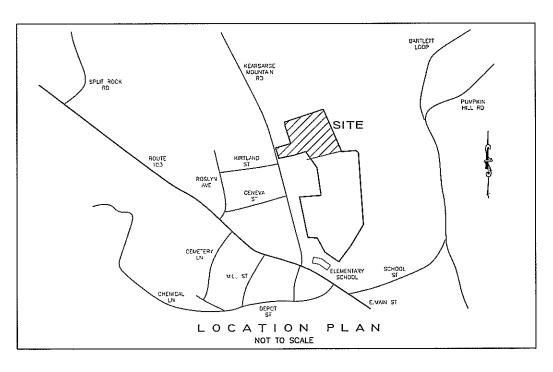
LOCATED AT

TAX MAP 33 LOT 18 KEARSARGE MOUNTAIN ROAD WARNER, NEW HAMPSHIRE

MERRIMACK COUNTY

Symbols Legend:

	10 FT CONTOUR	D	EXISTING CATCH BASIN
	2 FT CONTOUR	•	PROP. CATCH BASIN
00000000	STONE WALL		RIP RAP APRON
	PROPOSED DITCH		
	EXISTING DITCH	reerl	BASIN BERM
<u></u>	WETLAND	x	SILT FENCE
⊳- <u>-</u>	PROP. DRAIN LINE	G.	STONE CHECK DAW
TP-1 ◆	TEST PIT	F524.0	SPOT ELEVATION
10	PERC TEST	-	FLOW DIRECTION
<u> — он</u> w—	OVERHEAD WIRES	F524	PROPOSED GRADE CONTOUR
	BUILDING SETBACK LINE	e de la company	PROPOSED EARTH DIVERSION BERM
(T.B.R.)	TO BE REMOVED		TREELINÉ



CONTACT DIG SAFE 72 HOURS PRIOR TO CONSTRUCTION

THE LOCATION OF ANY UTILITY INFORMATION SHOWN ON THIS PLAN IS APPROXIMATE. THE ENGINEERS MAKE NO CLAIM TO THE ACCURACY OR COMPLETENESS OF UTILITIES SHOWN. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ANY UTILITIES WHETHER THEY BE ABOVE OR BELOW GROUND. PRIOR TO ANY EXCAVATION ON SIZE THE CONTRACTOR SHALL CONTACT DIG SAFE AT 1-809-D G-SAFE.

		·····
		<u> </u>
		JJ
	·	
	:	1
DATE	DESCRIPTION	BY

CHAIRPERSON / VICE CHAIRPERSON

DATE

CONSULTANTS:

Licensed Land Surveyor

J.E. Belanger Land Surveying, PLLC.
61 Old Hopkinton Road

Dunbarton, NH 03046

Phone: (603) 774-3601

Certified Soll Scientist
Ferwerta Mapping, LLC
43 Bartlett Hill Road,
Deering, NH, 03244

Owner / Applicant: Sydney Elizabeth Boyer Kearsarge Mountain Road Warner, NH 03278

JUNE 28, 2023

Sheet Index:

	01100111111111
DWG NO.	DESCRIPTION
1	COVER
2	100 SCALE EXISTING CONDITIONS PLAN
3-6	SUBDIVISION PLAN PLANS
7	GRADE DRAINAGE AND EC
8	UTILITY PLAN
9	ROAD PROFILE
10	SIGHT DISTANCE PLAN & PROFILE
11-16	CONST. DETAILS

Agency Approvals

NHDES — SEWER SYSTEM APPROVAL # WATER SYSTEM APPROVAL #

<u>PENDING</u> <u>PENDING</u>

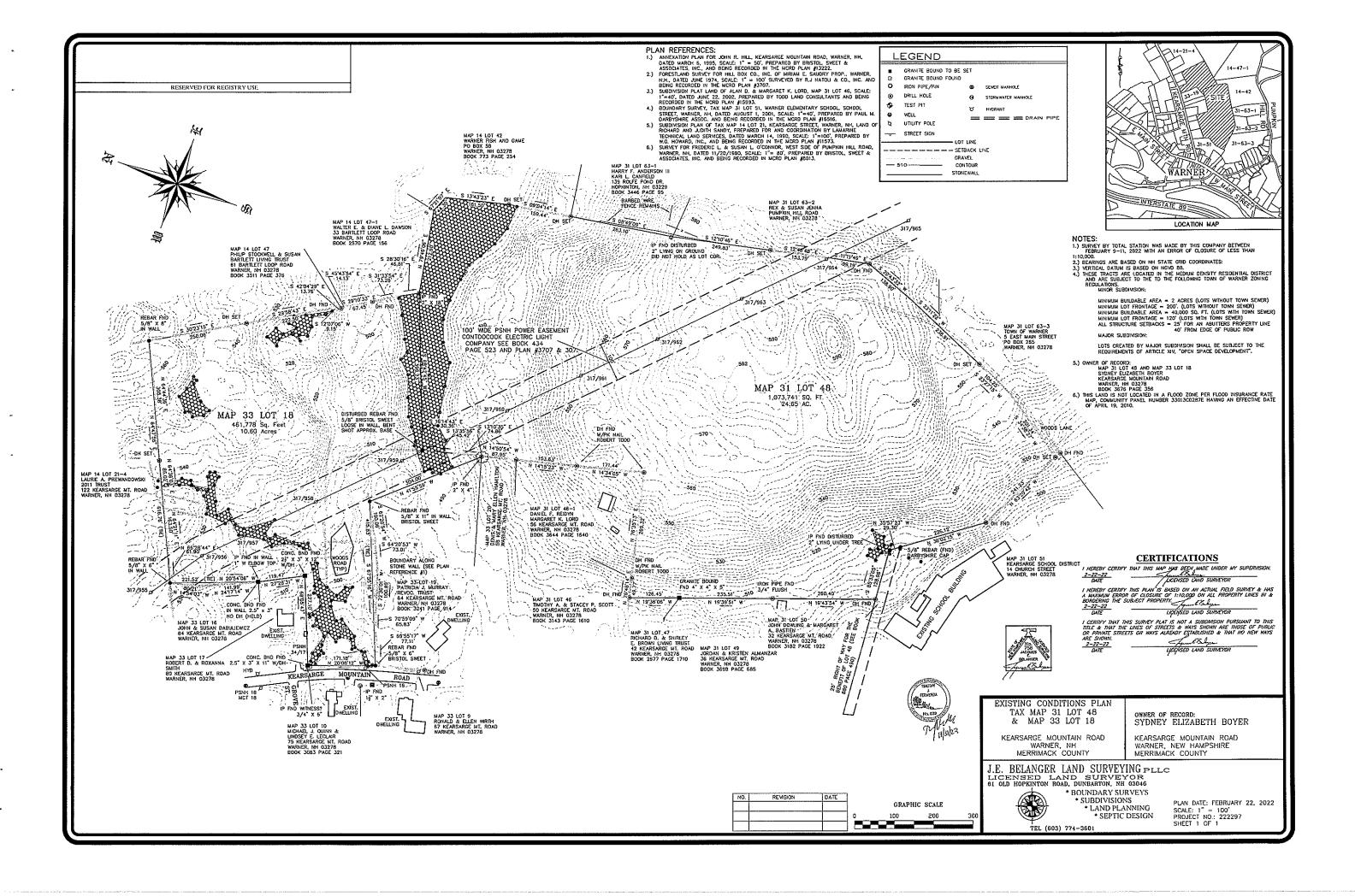
NOTE:

- ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL CONFORM TO THE TOWN OF WARNER REGULATIONS, AND THE NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", LATEST EDITION.
- 2. ELEVATIONS ARE BASED ON NGVD 29 DATUM.
- 3. PHYSICAL EVIDENCE OF EXISTING UTILITIES WERE LOCATED ON THE GROUND HOWEVER PRIOR TO ANY CONSTRUCTION IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT DIG-SAFE AND VERIFY ALL UNDERGROUND AND OVERHEAD UTILITY LOCATIONS.

DESIGN ENGINEER:

Rokeh Consulting, LLC 89 KING ROAD, CHICHESTER, NH PH: 603-387-8688

SHEET 1 OF 16



RESERVED FOR REGISTRY USE

- PLAN REFERENCES:

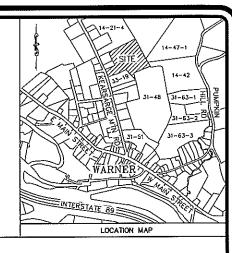
 1.) ANNEXATION PLAN FOR JOHN R. HILL, KEARSARGE MOUNTAIN ROAD, WARNER, NH, DATED MARCH 6, 1935, SCALE: 1' = 50', PREPARED BY BRISTOL, SWEET & ASSOCIATES, INC., AND BEING RECORDED IN THE MCRD PLAN #15222.

 2. FORESTLAND SURVEY FOR HILL BOX CO., INC. ON MIRAM E. SAUDRY PROP., WARNER, N.H., DATED JUNE 1974, SCALE: 1' = 10' SURVEYED BY R.J. NATCU & CO., INC. AND BEING RECORDED IN THE MCRD PLAN #3707.

 3. SUBDIVISION PLAT LAND OF ALAN D. & MARCARET K. LORD, MAP JI LOT 46, SCALE: 1' = 40', DATED JUNE 22, 2002, PREPARED BY TOOD LAND CONSULTANTS AND BEING RECORDED IN THE MCRD PLAN #15933.

 4. BOUNDARY SURVEY, TAX MAP JI LOT 51, WARNER ELEMENTARY SCHOOL, SCHOOL, STREET, WARNER, NH, DATED AUDUST 1, 2001, SCALE: 1' = 40', PREPARED BY PAUL M. DARBETSHER ASSOCIATE, AND BEING RECORDED IN THE MCRD PLAN #15758.

 5. SUBDIVISION PLAN OF TAX MAP IN LOT 31, KEARSARGE STREET, WARNER, H., LAND OF RICHARD AND JUST H SANDY, PREPARED BY MAD COORDINATION BY LAMARINE TECHNICAL LIND SERVICES, DATED MARCH 11, 190, STOKE 11, 1917, 191



LEGEND

- CONCRETE/GRANITE BOUND O IRON PIPE/PIN
- DRILL HOLE
- RE-BAR/STEEL PIN TEST PIT
- WELL UTILITY POLE STREET SIGN
- DRAIN INLET
- (3) SEWER MANHOLE €

STORMWATER MANHOMLE HYDRANT

- LOT LINE -- -- -- SETBACK LINE TREE LINE

- EDGE OF GRAVEL

- 510 -- CONTOUR DOLOGICA STONEWALL DRAIN PIPE

MAIL BOX

WATER CONTROL VALVE

PROPOSED GRANITE BOUND

PROPOSED REBAR WITH CAP

NOTES:

1.) SURVEY BY TOTAL STATION WAS MADE BY THIS COMPANY BETWEEN FEBRUARY 9-11, 2022 WITH AN ERROR OF CLOSURE OF LESS THAN 1: 10,000.

2.) BEARINGS ARE BASED ON NH STATE GRID COORDINATES:

3.) VERTICAL DATUM IS BASED ON NOVO 88.

4.) THESE TRACTS ARE LOCATED IN THE MEDIUM DENSITY RESIDENTIAL DISTRICT AND ARE SUBJECT TO THE TO THE FOLLOWING TOWN OF WARNER ZONING REGULATIONS.

MINOR SUBDIVISION:

MINIMUM BUILDABLE AREA = 2 ACRES (LOTS WITHOUT TOWN SEWER)
MINIMUM LOT FRONTAGE = 200', (LOTS WITHOUT TOWN SEWER)
MINIMUM BUILDABLE AREA = 40,000 SO, FT, (LOTS WITH TOWN SEWER)
MINIMUM LOT FRONTAGE = 120' (LOTS WITH TOWN SEWER)
ALL STRUCTURE SETBACKS = 25 FOR AN ABUITERS PROPERTY LINE

40' FROM EDGE OF PUBLIC ROW

MAJOR SUBDIMSION:

LOTS CREATED BY MAJOR SUBDIMISION SHALL BE SUBJECT TO THE REQUIREMENTS OF ARTICLE XIV, "OPEN SPACE DEVELOPMENT".

5.) OWNER OF RECORD:

MAP 33 LOT 18

STONEY ELIZABETH BOYER
KEARSARCE MOUNTAIN ROAD
WARNER, NH 03278
BOOK 3678 PAGE 356

6.) THIS LAND IS NOT LOCATED IN A FLOOD ZONE PER FLOOD INSURANCE RATE
MAP, COMMUNITY PANEL NUMBER 33013C0287E HAWING AN EFFECTIVE DATE
OF APRIL 19, 2010.



I HEREBY CERTIFY THAT THIS PLAN IS THE RESULT OF AN ACTUAL SURVEY MADE ON THE GROUND AND HAS A MAXIMUM ERROR OF CLOSURE OF DIKE PART IN TEN THOUSAND ON ALL PROPERTY LINES WITHIN AND BORDERING THE SUBJECT PROPERTY

MAJOR SUBDIVISION PLAN TAX MAP 33 LOT 18 KEARSAGE MOUNTAIN ROAD MERRIMACK COUNTY WARNER NH

TIMOTHY FERWERDA, CERTIFIED WETLAND SCIENTIST #39, OF FERWERDA MAPPING LLC, OF DEERING NH, PERFORMED THE WETLAND IDENTIFICATION AND DELINEATION IN FEBRUARY 25, 2022 ACCORDING TO THE CORPS OF ENGINEERS WETLAND DELINEATION MANUAL AND THE REGIONAL SUPPLEMENT TO THE CORPS OF ENGINEERS WETLAND DELINEATION MANUAL; NORTH CENTRAL AND NORTHEAST REGION, VERSION 2.0, JANUARY 2012, US ARMY CORPS OF ENGINEERS.

OWNER OF RECORD:
SYDNEY ELIZABETH BOYER
KEARSAGE MOUNTAIN ROAD WARNER NH 03278

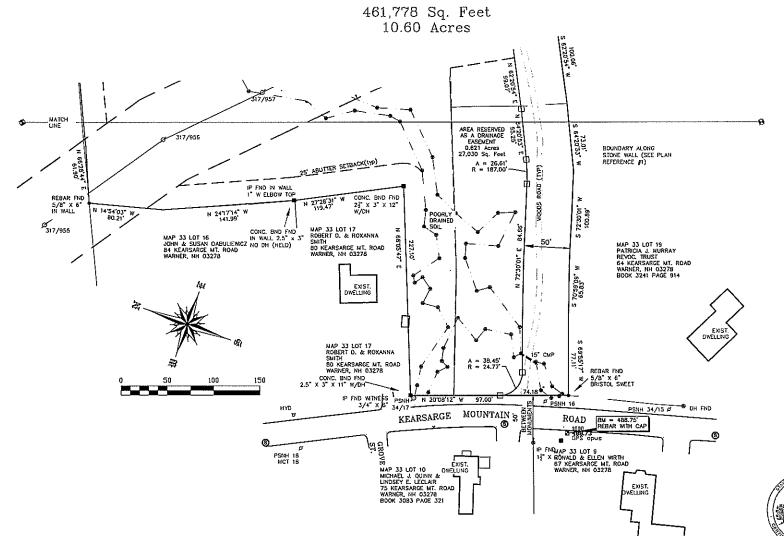
J.E. BELANGER LAND SURVEYING PLLC LICENSED LAND SURVEYOR 61 OLD HOPKINTON ROAD, DUNBARTON, NH 03946



* BOUNDARY SURVEYS * SUBDIVISIONS * LAND PLANNING * SEPTIC DESIGN

PLAN DATE: SEPTEMBER 18, 2023 SCALE: 1" = 50' PROJECT NO.: 222297 SHEET SUB1 OF SUB2 ROKEH SHEET 3 OF 16

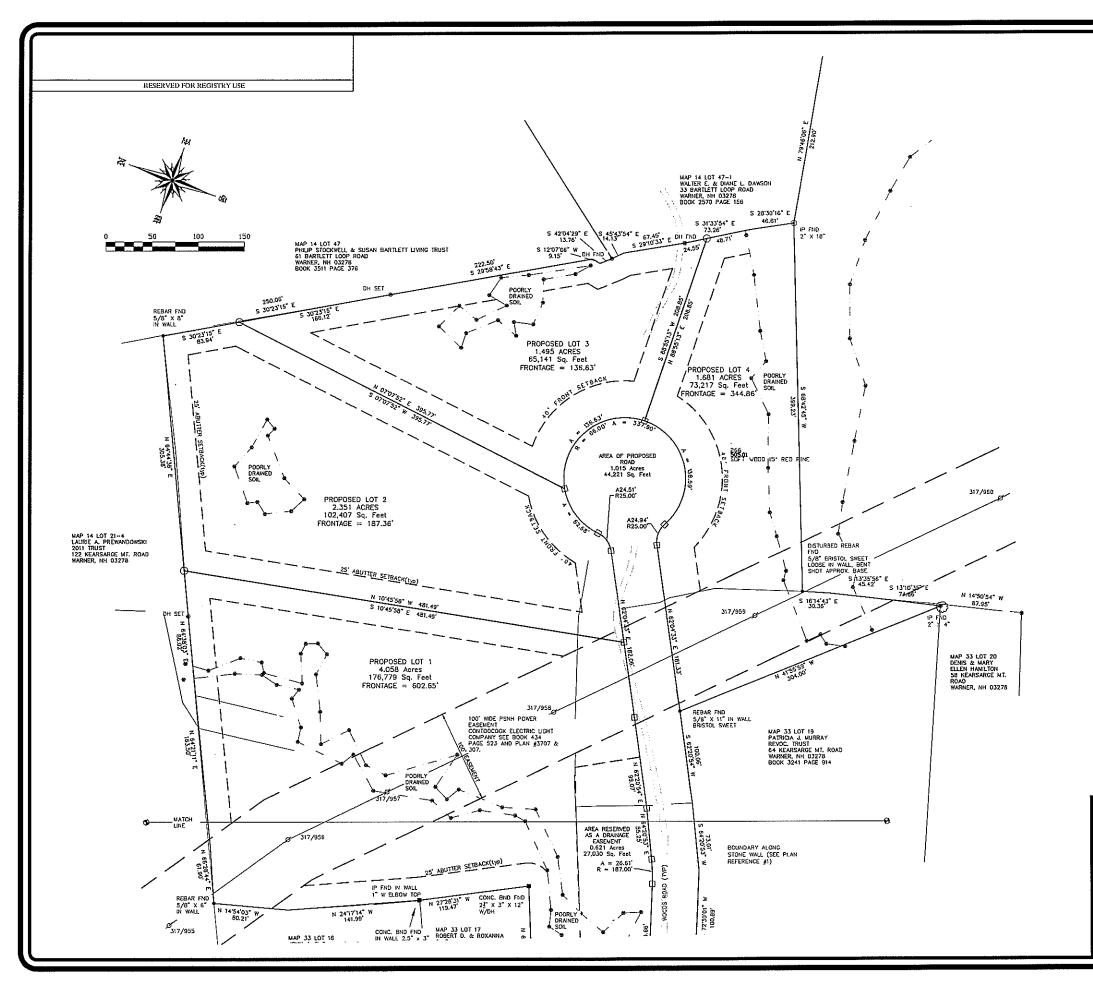
TEL (803) 774-3601



MAP 33 LOT 18



MAP 33 ROAD	LOT	AREA ACRES	EASEMENT AREA	FRONTAGE
	18	4.058	1.740	602.65*
	18.1	2.350	0.004	187.36
	18.2	1.495		136.65
	18.3	1.681	0.423	344.86



TIMOTHY FERWERDA, CERTIFIED WETLAND SCIENTIST #39, OF FERWERDA MAPPING LLC, OF DEERING NH, PERFORMED THE WETLAND IDENTIFICATION AND DELINEATION IN FEBRUARY 25, 2022 ACCORDING TO THE CORPS OF ENGINEERS WETLAND DELINEATION MANUAL AND THE REGIONAL SUPPLEMENT TO THE CORPS OF ENGINEERS WETLAND DELINEATION MANUAL; NORTH CENTRAL AND NORTHEAST REGION, VERSION 2.0, JANUARY 2012, US ARMY CORPS OF ENGINEERS.

MAP 33 ROAD	LOT	AREA ACRES 1.015	EASEMENT AREA	FRONTAGE
.,0.1.5	18	4.058	1.740	602.65
	18.1	2.350	0.004	187.36
	18.2	1.495		136.65
	18.3	1.681	0.423	344.86





APRIL 5, 2024 CERTIFICATION:

I HEREBY CERTIFY THAT THIS PLAN IS THE RESULT OF AN ACTUAL SURVEY MADE ON THE GROUND AND HAS A MAXIMUM ERROR OF CLOSURE OF ONE PART IN TEN THOUSAND ON ALL PROPERTY LINES WITHIN AND BORDERING THE SUBJECT PROPERTY

MAJOR SUBDIVISION PLAN TAX MAP 33 LOT 18 KEARSAGE MOUNTAIN ROAD MERRIMACK COUNTY WARNER NH

OWNER OF RECORD: SYDNEY ELIZABETH BOYER KEARSAGE MOUNTAIN ROAD WARNER NH 03278

J.E. BELANGER LAND SURVEYING PLLC LICENSED LAND SURVEYOR 61 OLD HOPKINTON ROAD, DUNBARTON, NH 03046



* BOUNDARY SURVEYS * SUBDIVISIONS * LAND PLANNING * SEPTIC DESIGN PLAN DATE: SEPTEMBER 18, 2023 SCALE: 1" = 50" PROJECT NO.: 222297 SHEET SUB1 OF SUB2 ROKEH SHEET 4 OF 16

TEL (603) 774-3801

RESERVED FOR REGISTRY USE

PLAN REFERENCES:

1.) ANNEXATION PLAN FOR JOHN R. HILL, KEARSARGE MOUNTAWI ROAD, WARNER, NH, DATED MARCH 6, 1995, SCALE: 1" = 50", PREPARED BY BRISTOL, SWEET & ASSOCATES, INC., AND BEING RECORDED IN THE MERCH PLAN #1322.

2. FORESTLAND SURVEY FOR HILL BOX CO., INC. OF WRIAM E. SAUDRY PROP., WARNER, NH., DATED JUNE 1974, SCALE: 1" = 10" SURVEYED BY R.J. HATCIJ & CO., INC. AND BEING RECORDED IN THE MCRO PLAN #3707.

3. SUBDIMSON PLAT LAND OF ALAN D. & MARGARET K. LORD, MAP 31 LOT 46, SCALE: 1"-40", DATED JUNE 22, 2022, PREPARED BY 1000 LAND CONSULTANTS AND BEING RECORDED IN THE MCRUD PLAN #15993.

3. BOUNDARY SURVEY, TAX MAP 31 LOT 51, WARNER ELDBITTARY SCHOOL, SCHOOL, STREET, WARNER, NH, DATED AUGUST 1, 2001, SCALE: 1"-40", PREPARED BY PAUL M. DARRYSHRE ASSOC, AND BEING RECORDED IN MK MCRO PLAN #1656R, NH, LAND OF RICHARD AND JUDITED SAID. THE MARCH 14, 1903, SCALE: "1"-40", PREPARED BY MARCH 15, 1903, SCALE: "1"-40", PREPARED BY WARANINE TECHNICAL PREPARED BY BEING TOWN WAR. HOW THE MARCH 14, 1903, SCALE: "1"-100", PREPARED BY W.G., HOWARD, INC., AND BEING RECORDED IN THE MCRO PLAN #11573.

6. SURVEY FOR FREDERIC, LA SUSAN L. O'CONNOR, WEST SIDE OF PUMPINH HILL ROAD, WARNER, NH, DATED 11/20/1980, SCALE: 1"= 80", PREPARED BY BRISTOL, SWEET & ASSOCIATES, INC. AND BEING RECORDED IN MCRO PLAN #3013.

AREA ACRES

1,015 4.05B

2.350

1.495 1.681

LOT

18.1

18.2 18.3

MAP 33

ROAD

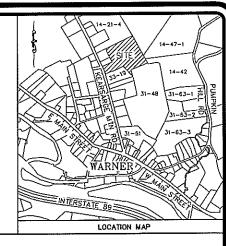
EASEMENT AREA FRONTAGE

187.36

136.65' 344.86

0.004

0.423



LEGEND

■ CONCRETE/CRANITE BOUND

IRON PIPE/PIN O DRILL HOLE

RE-BAR/STEEL PIN

TEST PIT

WELL UTILITY POLE STREET SIGN

DRAIN INLET SEWER MANHOLE

HYDRANT

MAIL BOX

WATER CONTROL VALVE

GAS CONTROL VALVE

PROPOSED GRANITE BOUND

O PROPOSED REBAR WITH CAP

_ __ - SETBACK LINE

SOIL LINE

- - - EDGE OF GRAVEL CARRODO STONEWALL

S STORMWATER MANHONLE

1.) SURVEY BY TOTAL STATION WAS MADE BY THIS COMPANY BETWEEN FEBRUARY 9-11, 2022 MITH AN ERROR OF CLOSURE OF LESS THAN 1:10,000.

1:10,000.

2.) BEARINGS ARE BASED ON NH STATE GRID COORDINATES:

3.) VERTICAL DATUM IS BASED ON NOVO 88.

4.) THESE TRACTS ARE LOCATED IN THE MEDIUM DENSITY RESIDENTIAL DISTRICT AND ARE SUBJECT TO THE TO THE FOLLOWING TOWN OF WARNER ZONING REQULATIONS.

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MINIMUM BUILDABLE AREA = 2 ACRES (LOTS WITHOUT TOWN SEWER)
MINIMUM LOT FRONTACE = 200. (LOTS WITHOUT TOWN SEWER)
MINIMUM BUILDABLE AREA = 40,000 SO, FT. (LOTS WITH TOWN SEWER)
MINIMUM LOT FRONTACE = 120" (LOTS WITH TOWN SEWER)
ALL STRUCTURE SETBACKS = 25" FOR AN ABUITERS PROPERTY LINE
40" FROM EDGE OF PUBLIC ROW MAJOR SUBDINISION:

LOTS CREATED BY MAJOR SUBDIVISION SHALL BE SUBJECT TO THE REQUIREMENTS OF ARTICLE XIV, "OPEN SPACE DEVELOPMENT".

5.) OWNER OF RECORD:

MAP 33 LOT 18

STONEY ELIZABETH BOYER
KEARSAKCE MOUNTAIN ROAD
WARNER, NH 03278
BOOK 3678 PAGE 356

6.) THIS LAND IS NOT LOCATED IN A FLOOD ZONE PER FLOOD INSURANCE RATE
MAP COMMUNITY PANEL NUMBER 33013C0287E HAVING AN EFFECTIVE DATE
OF APRIL 19, 2010.



TIMOTHY FERWERDA, CERTIFIED WETLAND SCIENTIST #39, OF IMOINT FERWENDA, CERTIFIED WEILAND SCIENTST #39, OF FERWENDA MAPPING LLC, OF DEERING NH, PERFORMED THE WETLAND IDENTIFICATION AND DELINEATION IN FEBRUARY 25, 2022 ACCORDING TO THE CORPS OF ENGINEERS WETLAND DELINEATION MANUAL AND THE REGIONAL SUPPLEMENT TO THE CORPS OF ENGINEERS WETLAND DELINEATION MANUAL; NORTH CENTRAL AND NORTHEAST REGION, VERSION 2.0, JANUARY 2012, US ARMY CORPS OF ENGINEERS OF ENGINEERS.

CERTIFICATION:

I HEREBY CERTIFY THAT THIS PLAN IS THE RESULT OF AN ACTUAL SURVEY MADE ON THE GROUND AND HAS A MAXIMUM ERROR OF CLOSURE OF ONE PART IN TEN THOUSAND ON ALL PROPERTY LINES WITHIN AND BORDERING THE SUBJECT PROPERTY

MAJOR SUBDIVISION PLAN TAX MAP 33 LOT 18 KEARSAGE MOUNTAIN ROAD MERRIMACK COUNTY WARNER NH

OWNER OF RECORD: SYDNEY ELIZABETH BOYER KEARSAGE MOUNTAIN ROAD WARNER NH 03278

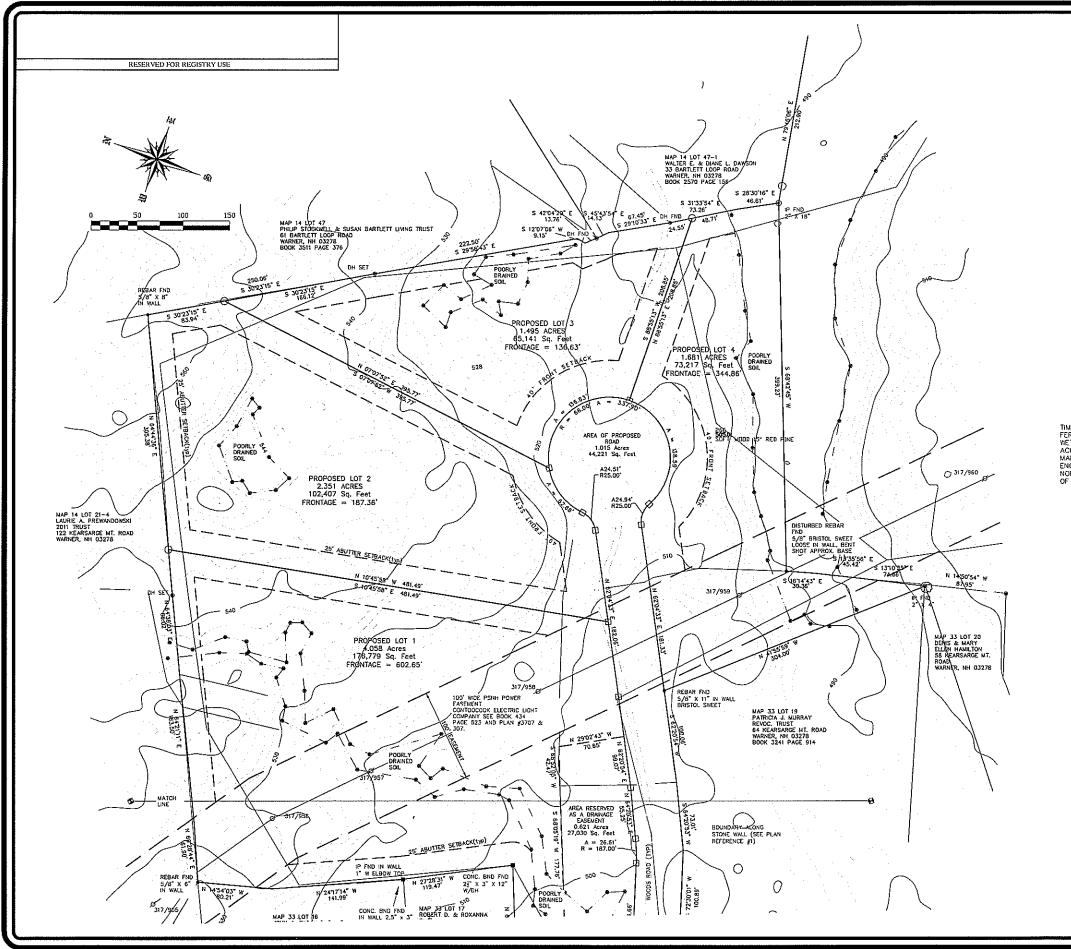
J.E. BELANGER LAND SURVEYING PLLC LICENSED LAND SURVEYOR 61 OLD HOPKINTON ROAD, DUNBARTON, NH 03046



* BOUNDARY SURVEYS * SUBDIVISIONS * LAND PLANNING * SEPTIC DESIGN PLAN DATE: SEPTEMBER 18, 2023 SCALE: 1" = 50' PROJECT NO.: 222297 SHEET SUB1 OF SUB2 ROKEH SHEET 5 OF 16

TEL (603) 774-3601

MAP 33 LOT 18
461,778 Sq. Feet
10.60 Acres
70.65
500
MATCH LINE AREA RESERVED & S
AREA RESERVED (5.5) AS A DRAINAGE 1.05 AS A DRAINAGE 1.05 O.621 Acres O.621 Acres Tonic Wallye) AREA RESERVED (5.5) AREA RESERVED (5.5) STONE WALL (SEE PLAN RESERVED (5.5) AREA RESERVED (5.
25_ABUTTER SETBACK(UP) 25_ABUTTER SETBACK(UP) 25_ABUTTER SETBACK(UP) 25_ABUTTER SETBACK(UP)
IP FND IN WALL I'W ELBOW TOP ONG SIND FND
REFIAR RND 5/8" x 6" N 14"54"03" W V24"17"14" W V24"17" W V
317/965/ CONIC. BRID FND MAPP 2000 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
MAP 33 LOT 16 JOHN & SUSAN DABULEMICZ NO DH (HELD) SO KEARSARGE MT. ROAD SO KEARSARGE MT. ROAD WARNER, NH 03278 WARNER, NH 03278 MAP 33 LOT 19 PATRICIA J. MURDAY WARNER, NH 03278 MAP 33 LOT 19 PATRICIA J. MURDAY WARNER, NH 03278 BOOK 3241 PAGE 914
ENST. DWELLING DWELLING
EXIST DIMELLING
MAP 33 LOT 17 ROBERT D. & ROXANNA BO KEARSARGE UT. ROAD WARNER, NH 03278 CONC. BND CO. S.
0 50 100 150 25 V 15 WOW 150 SWEET
HYD 3/4 X 5 34/17 MOLLING TAY 2008 12 W 97.00 DE PSINT 34/15 D DH FND
1000 REBAR WITH CAP
P SNH 18 IP FINDLAP 33 LOT 9 IF X 80NAID & ELLEN WRITH
MCT 18 MAP 33 LOT 10 DIVELLING MICHAEL J. QUINN & LINDSEY V. LECLAR THATTY TO KEARSARGE MT. ROAD WARNER, NH 03278 EXIST, DWELLING THATTY THATTY TO KEARSARGE MT. ROAD FENIST, DWELLING THATTY
7.5 KEARSARCE MT. ROAD WARRER, NH 03278 BOOK 3083 PAGE 321
No. 039
$\mathcal{T}_{10}^{\text{poly}}$



TIMOTHY FERWERDA, CERTIFIED WETLAND SCIENTIST #39, OF FERWERDA MAPPING LLC, OF DEERING NH, PERFORMED THE WETLAND IDENTIFICATION AND DELINEATION IN FEBRUARY 25, 2022 ACCORDING TO THE CORPS OF ENGINEERS WETLAND DELINEATION MANUAL AND THE REGIONAL SUPPLEMENT TO THE CORPS OF ENGINEERS WETLAND DELINEATION MANUAL; NORTH CENTRAL AND NORTHEAST REGION, VERSION 2.0, JANUARY 2012, US ARMY CORPS OF ENGINEERS.

MAP 33 ROAD	LOT	AREA ACRES	EASEMENT AREA	FRONTAGE
	18	4.058	1.740	602.65
	18.1	2.350	0.004	187.36'
	18.2	1.495		136.65'
	18.3	1.681	0.423	344.86





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OWNER OF RECORD: SYDNEY ELIZABETH BOYER KEARSAGE MOUNTAIN ROAD WARNER NH 03278

J.E. BELANGER LAND SURVEYING PLLC LICENSED LAND SURVEYOR 61 OLD HOPKINTON ROAD, DUNBARTON, NH 63046



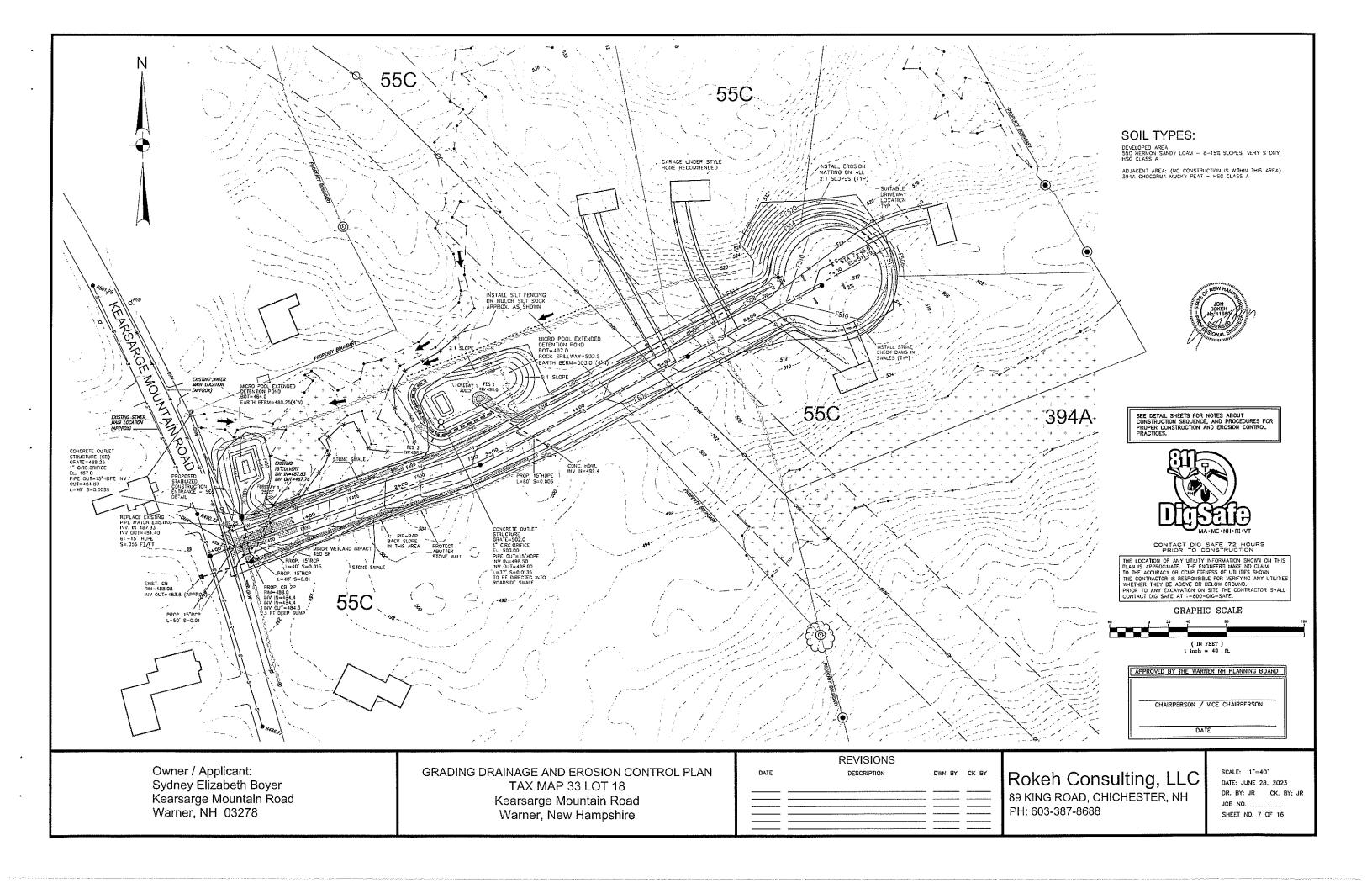
* BOUNDARY SURVEYS

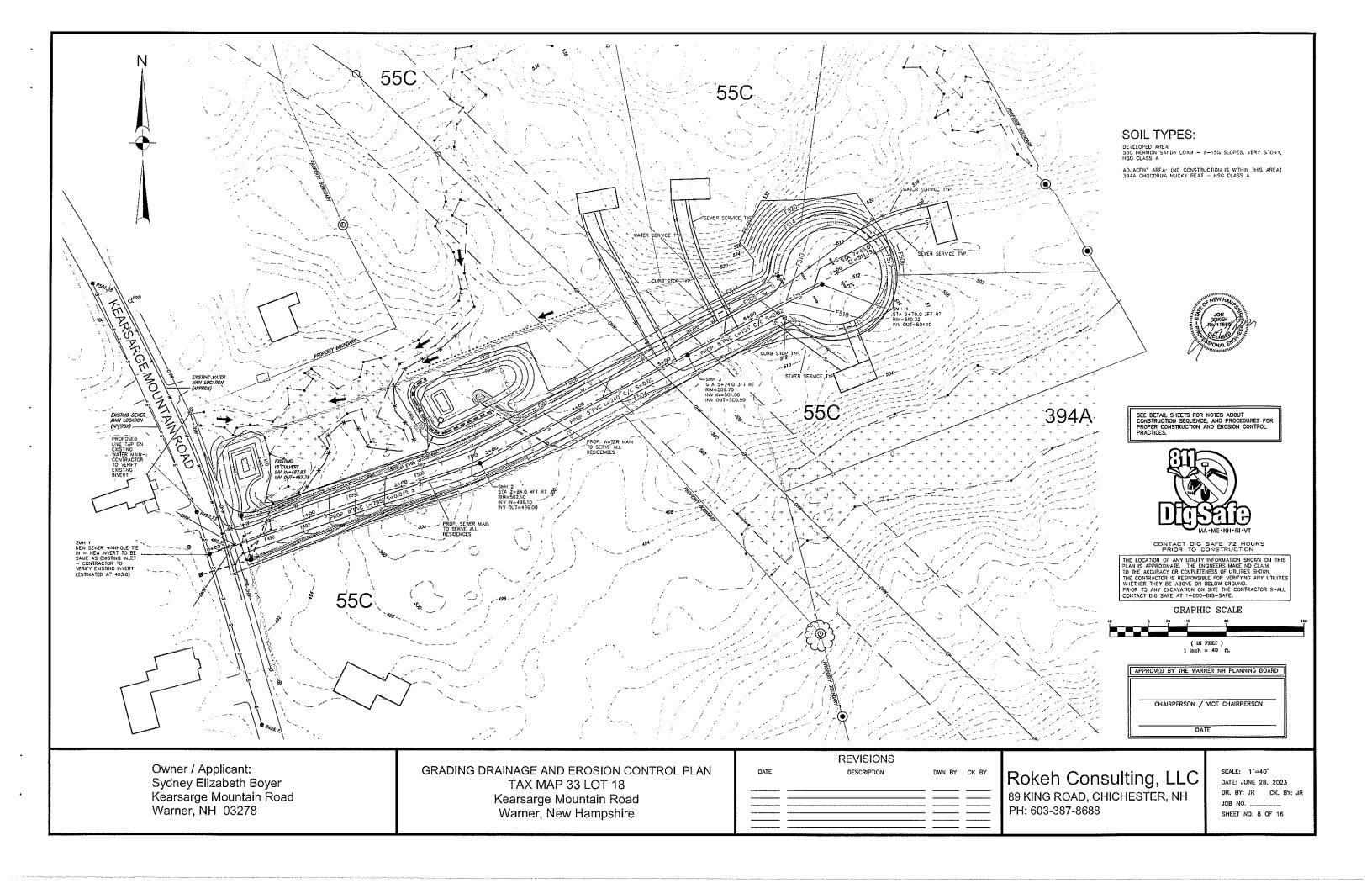
* SUBDIVISIONS

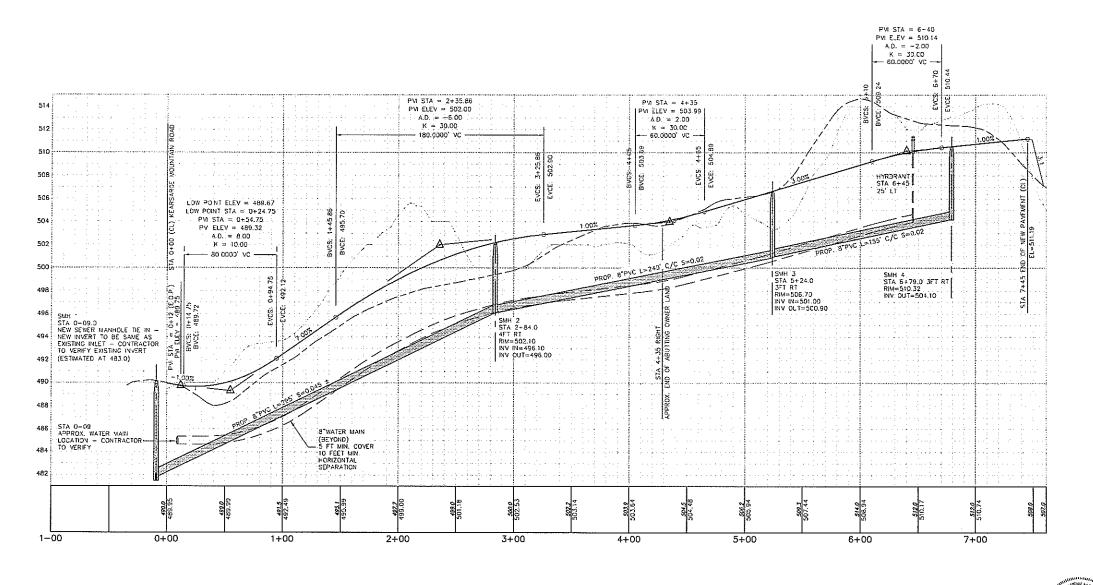
* LAND PLANNING

* SEPTIC DESIGN PLAN DATE: SEPTEMBER 18, 2023 SCALE: 1" = 50' PROJECT NO.: 222297 SHEET TOPO2 OF TOPO2 ROKEH SHEET 6 OF 16

TEL (603) 774-3601







SEE DETAIL SHEETS FOR NOTES ABOUT CONSTRUCTION SEQUENCE, AND PROCEDURES FOR PROPER CONSTRUCTION AND EROSION CONTROL PRACTICES.



CONTACT DIG SAFE 72 HOUR

THE LOCATION OF ANY UTILITY INFORMATION SHOWN ON THIS PLAN IS APPROXIMATE. THE ENGINEERS MAKE NO CLAIM TO THE ACCURACY OR COMPLETENESS OF UTILITIES SHOWN, THE CONTRACTOR IS RESPONSIBLE FOR TREITFING ANY UTILITIES WHETHER THEY BE ABOVE OR BELOW GROUND. PRIOR TO ANY EXCAVATION ON SITE THE CONTRACTOR SHALL CONTACT DIG SAFE AT 1-800-DIG-SAFE.





CHAIRPERSON / VICE CHAIRPERSON

DATE

Owner / Applicant: Sydney Elizabeth Boyer Kearsarge Mountain Road Warner, NH 03278

ROADWAY PROFILE TAX MAP 33 LOT 18 Kearsarge Mountain Road Warner, New Hampshire

	REVISIONS		
DATE	DESCRIPTION	DWN BY	CK BY

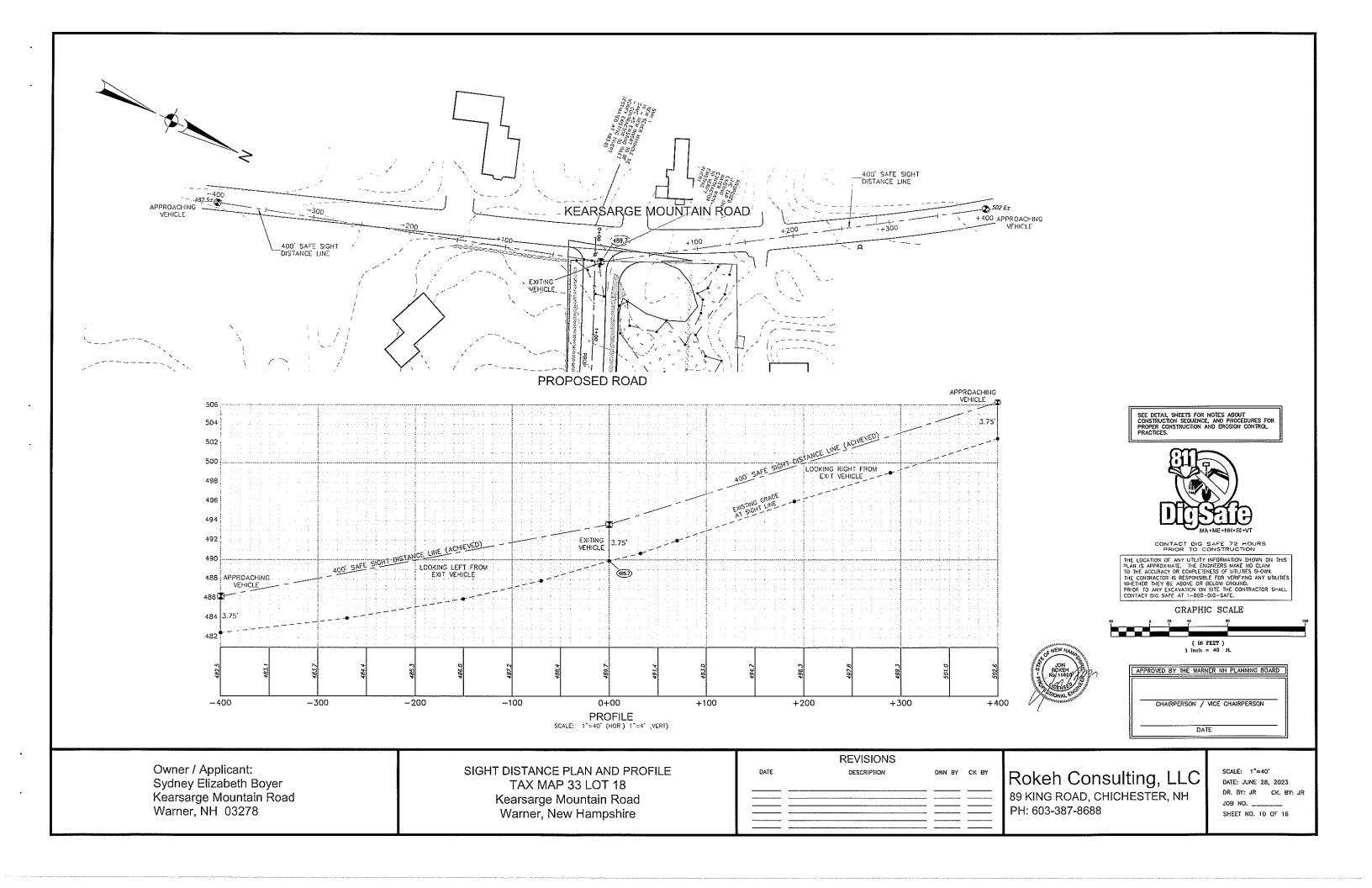
Rokeh Consulting, LLC 89 KING ROAD, CHICHESTER, NH PH: 603-387-8688 SCALE: 1"=40'(H) 4'(V)

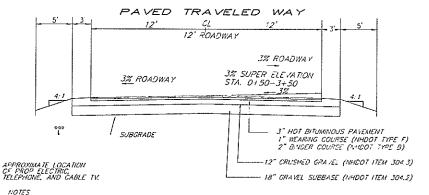
DATE: JUNE 28, 2023

DR. BY: JR CK. BY: JR

JOB NO. ______

SHEET NO. 9 DF 16





TYPICAL ROADWAY SECTION (NOT TO SCALE)

- NOTES

 1. ALL ROADWAY CONSTRUCTION MATERIALS AND METHODS
 SHALL BE IN ACCORDANCE WITH THE LATEST N.H.D.O.T.
 SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
 2010 INCLUDING SUBSEQUENT AMENDMENTS AND EDITIONS.
- 2. PROVIDE 4" (MIN.) COMPACTED LOAM AND SEED ON ALL SIDE SLOPES AND DRAINAGE SWALES UNLESS OTHERWISE NOTED.

U-CHANNEL SIGN POST

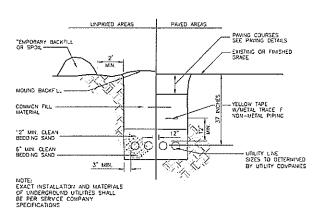
MUTCD R1-1 "STOP SIGN

3/8" DIA, HOLES PUNCHED AT 1" C/C

FINISH GRADE -

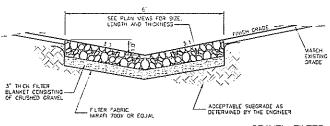
SITE SIGNAGE DETAIL

3. ALL LEDGE AND ROCK SHALL BE REMOVED TO 6" BELOW SUBGRADE.



UTILITY TRENCH DETAIL

NOT TO SCALE

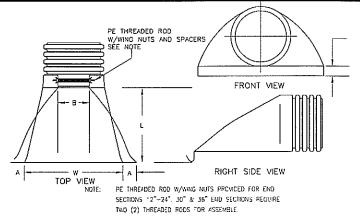


GRAVEL FILTER GRADATION RIP-RAP GRADATION

		# FINER BY	WEIGHT				# PASSING
STONE SIZE	D 40 = 6	050 = 9	0 50 = 12°	D ₅₀ = 18	D 53 = 24	SEVE SIZE	BY WEIGHT
2-	0~15%	0%	-	-	-	31/4"	100
4-	20-355	10-205	0-10%	-	-	3"	85-100
€*	35-50%	25-35%	10-25%	0-10%	-	11/2	60-90
6°	50-65%	30 - 50%	20-30%	1C · 20%	C~10%	\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \	40-70
10"	60-80%	40-50%	30-40%	15-30%	5-15%	*	20-50
12"	75-100%					140.4	10-49
15	_	70-100%	45-60%	25-40%	20-30%	110. 200	0-8

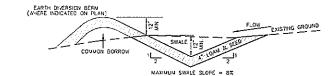
RIP RAP SWALE

NOT TO SCALE



PART #	PIPE SIZE	А	B (MAX)	Н		
121GNP	12 IN	6 50 IN	10.00 IN	6.50 IN	25.00 IN	
151CNP	15 ₁N	6.50 111	10.00 10	6.50 IN	25.00 IN	
181CNP	18 :N	7.50 IN	15.00 IN	6.50 IN	32.00 IN	
2410NP	24 IN	7.50 IN	18.00 IN	6.50 IN	36.00 IN	
3015NP	30 IN	7.50 IN	12.00 IN	6.60 IN	58.00 IN	
3615NP	36 IN	7.50 IN	25.00 IN	MI 06.B	58.00 IN	

ADVANCED DRAINAGE SYSTEMS, INC.
HDPE FLARED END SECTION

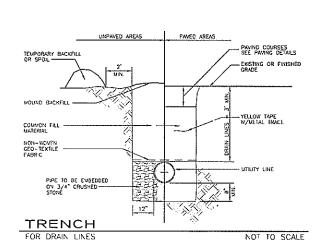


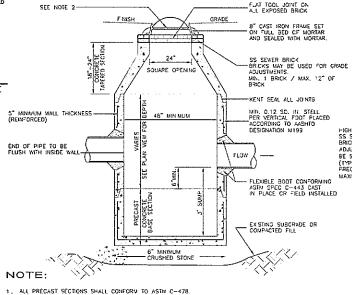
CONSTRUCTION NOTES

- THE FOUNDATION AREA OF THE WATERWAY SHALL BE CLEARED AND GRUBBED OF ALL TREES, BRUSH, STUMPS AND OTHER OBJECTIONARIE MATERIAL MATERIALS REMOVED SHALL BE DISPOSED OF SO THEY DO NOT INTERFERE MITH THE CONSTRUCTION OF PROPER FUNCTION OF THE WATERWAY.
- EARTH FILLS REQUIRED TO MEET SUBGRACE REQUIREVENTS BECAUSE OF OVER EXCAVATION OR TOPOGRAPHY SHALL BE COMPACITO TO THE SAME DENSITY AS THE SURROUNDING SERL TO PREVENT UNEQUAL SETTIEMENT THAT COULD CAUSE DAMAGET TO THE COMPLETED WATERWAY. EARTH REMOVED AND MOTH TREEDED IN CONSTRUCTION SHALL BE SPREAD OR DISPOSED OF SO THAT IT WILL NOT DITERFERE WITH THE FUNCTIONING OF THE WATERWAY.
- 5 THE WATERWAY SHALL BE STABILIZED USING THE APPROPRIATE "BEST MANAGEMENT PRACTICES" FOR VEGETATIVE MEASURES.

GRASS LINED SWALE

NOT TO SCALE





- 2. USE NHOOT TYPE B ALT-1 IN PAVED AREAS, DITCH GRATES IN SWALES
- 3. POLYETHYLENE INSERT LINERS ARE TO BE INSTALLED ON ALL NEW CATCH BASINS

CATCH BASIN DETAIL

SINGLE PIPE SYSTEM NOT TO SCALE

SOLID DRAIN MANHOLE COVER 1 H20 LOADING PORTLAND CEMENT PROPOSED FINISH GRADE HIGH STRENGTH
SS SEWER BRICKBRICKS MAY BE USED FOR GRADE
ADJUSTMENTS (1 CCURSE MAX.) FRAME TO
BE SET REFULL BED OF TYPE I/II MCRITAR
(TYP.) IL LEU OF ADDITIONAL BR CK.
PRECAST CONCRETE RINGS SHALL BE USED
MAXIMUM HEIGHT OF ADJUSTMENT IS 12" CONE, ECCENTRIC OR SLAB TOPS MAY BE USED. MIN, B" "HICK, H2D LOADING ALL PRECAST HOLES TO BE A MIN. OF 3" FROM ALL JOINTS AND 12" OUTSIDE MIN. FROM EACH FLEXIBLE NEOPRENE BOOT CONFORMING TO AS M SPEC. C-443, CAST IN PLACE OR FIELD / INSTALLED 6" MIN. COMPACTED
3/4" CRUSHED STONE DRAIN MANHOLE

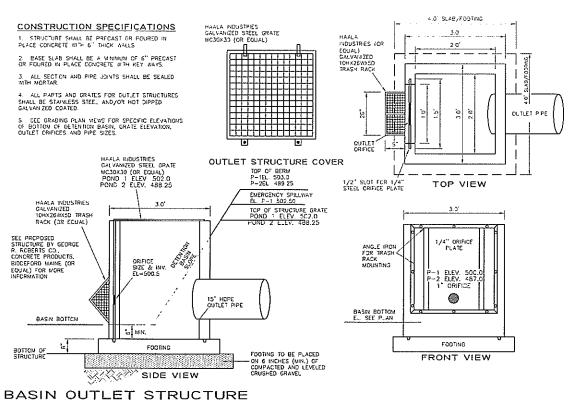
Owner / Applicant: Sydney Elizabeth Boyer Kearsarge Mountain Road Warner, NH 03278

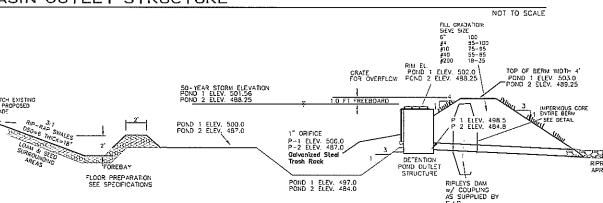
CONSTRUCTION DETAILS TAX MAP 33 LOT 18 Kearsarge Mountain Road Warner, New Hampshire

REVISIONS DESCRIPTION

Rokeh Consulting, LLC 89 KING ROAD, CHICHESTER, NH PH: 603-387-8688

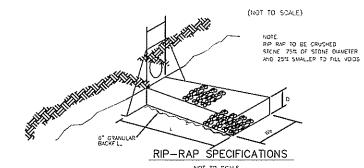
SCALE: AS NOTED DATE: JUNE 28, 2023 DR. BY: JR CK. BY: JR JOB NO. ___ SHEET NO. 11 OF 16



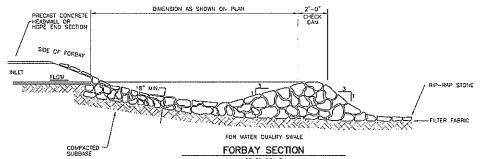


INFILTRATION BASIN NOTES

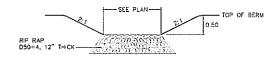
- DO NOT DISCHARGE SEDIMENT-LADEN WATERS FROM CONSTRUCTION ACTIVITIES (RUNOFF, WATER FROM EXCAVATIONS) TO THE INFILTRATION BASIN.
- DD NOT TRAFFIC EXPOSED SOIL SURFACE WITH CONSTRUCTION EQUIPMENT. IF FEASIBLE, PERFORM EXCAVATIONS WITH EQUIPMENT POSITIONED OUTSIDE THE JMITS OF THE INFILTRATION SYSTEM.
- AFTER THE INFILTRATION SYSTEM AREA IS EXCAVATED TO THE BOTTOM OF THE FILTER MEDIA, THE FLOOR SHOULD BE DEEPLY TILLED WITH A ROTARY TILLER OR DISC HARROW TO RESTORE INFILTRATION RATES, FOLLOWED BY A PASS WITH A LEVELING DRAG, THEN APPLY THE FILTER MEDIA.
- 4. VEGETATION WITHIN THE BASIN 18 INCHES BY THE FILTER MEDIA ELEVATION ON THE SIDE SUPPRESIDED BE ESTABLISHED IMMEDIATELY.
- DO NOT PLACE INFILTRATION SYSTEMS INTO SERVICE UNTIL THE CONTRIBUTING AREAS HAVE BEEN FULLY STABILIZED.
- THE FOUNDATION AREA SHALL BE CLEARED OF TREES, LOGS, STUMPS, ROOTS, BRUSH, BOULDERS, SOD AND RUBBIN. SCARIFY SURFACE BEFORE PLANING FULL THE AREA SHALL BE MOIST FOR GOOD BONDING OF THE NEW PILL, KEEP STANDING WATER FROM FORMING ON ON REAT THE FILL AREA.
- THE FILL SHALL BE FREE OF DETRINENTAL AUGUSTS OF SOD, RODTS, FROZEN SOIL, STONES LARGE THÂN 6 NCHÉS AND OTHER OBJECTIONABLE MATERIAL. CRUSHED GRAVEL (3/4") SMALL BE PLACE AROUND PIPES AND CONCRETE STRUCTURES.
- B. THE FLACING AND SPREADING OF FILL SHALL BE STARTED AT THE LOWEST POINT IN THE BERM AREA AND BROUGHT UP IN MORIZONTAL LAYERS (LITTS) OF ABOUT 12" SO THAT REQUIRED COMPACTION CAN BE DISTABLED. "HE DISTINGLAYOR AND CRADATION OF MARKHALLS SHALL BE SUCH THAT NO LENESS, POOKETS, STREAMS OR LAYERS OF MATERIAL DIFFER SUBSTANTIALLY BY TEXTURE OR CRADATION FROW THE SURFOLLING MATERIAL.
- 9. THE MOISTURE CONTENT OF THE FILL MATERIAL SHALL BE ADEQUATE FOR COTAINING THE REQUIRED COMPACTION.
- 10. CONSTRUCTION EOU PMENT SHALL BE OPERATED OVER AREAS OR EACH LAYER OF FILL TO INSURE REQUIRED COMPACTION. JSE SPECIAL EQUIPMENT IF NECESSARY. FILL ADJACENT TO PIPES AND STRUCTURES SHALL BE COMPACTED BY HAND TAMPING OR PLATE MERATOR. FILL ADJACENT TO CONCRETE STRUCTURES SHALL NOT BE COMPACTED UNTIL CONCRETE HAS CURED STRONG ENCUGH TO SUPPORT THE LOAD.
- FOR PROTECTION ALL EXPOSED AND DISTURBED SURFACES (OTHER THAN THE FILTER MEDIA) SHALL HAVE A COVER OF VEGETATION, PREFERABLY TOPSOIL AND SEED. FOLLOW SEEDING SPECIFICATION AND GENERAL NOTES IN THE ERBOSE CONTROLL DETAILS SECTION IN THIS PLANET.



CESCRIPTION		LENGTH L	NVERT WIDTH WI		END WIDTH We	STONE FILL	DEPTH OF STONE- 0
FES 1	!	10'	3 75'	 -	11"	5 ⁻	1.51
FES 2		g.	3 75	i	10"	ô"	1.5



		NOT TO SCALE					
FCRBAY	REQUIRED FORBAY	REQUIRED FORBAY PROPOSED FORBAY ROCK DAM STONE					
1	1930F	200CF	ž	6" STONE FE			
1	227CF	250CF	2-	6" STONE FIL			



TYPICAL EMERGENCY SPILLWAY DETAIL

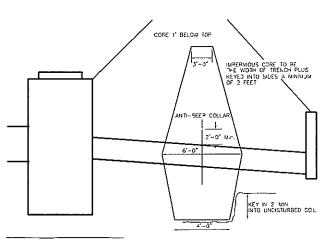
NOT TO SCALE

SAFETY

 PONDS THAT ARE EASILY ACCESSBLE BY POPULATED AREAS SHOULD INCORPORATE ALL POSSBLE SAFETY PRECAUTIONS. DUE TO ONLY TEMPORARY WATER LEVELS BY THESE BASINS, FENCING IS NOT

MAINTENANCE

- MAINTENANCE IS NECESSARY IF THE BASIN IS TO CONTINUE TO FUNCTION AS DESIGNED. THE LANDGINER MUST BE AWARE OF THE REQUIREMENTS FOR A PROPERLY OPERATIONAL BASIN AND J PLAN BE DEVELOPED FOR REGULAR SCHEDULES MAINTENANCE.
- THE EMBANKMENT SHOULD BE INSPECTED TO DETERMINE IF RODENT BURROWS, WET AREAS OR EROSION OF THE FILL IS TAKING PLACE.
- 3. THE VEGETATION SHOULD BE PROTECTED FROM DAMAGE BY FIRE, GRAZING, TRAFFIC AND DENSE WEED GROWTH. LIME AND FERRILIZER SHOULD BE APPLIED SA NECESSARY AS DETERMINED BY CONTESTS. TREES AND SHOULD BE KEPT OFF THE EMBARMENT AND EMPERCENCY SHILLWAY
- 4. PPE INLEIS AND SPILLWAY SIRUCTURES SHOULD BE INSPECTED ANNUALLY AND AFTER EVERY MAJOR STORM. ACCUMULATED DEBRS AND SEDIMENT SHOULD BE REFUCYED. IF PIPES ARE COATED, THE COATING SHOULD BE CHECKED AND REPRIETED AS INCECESSARY.
- PIPE CUTETS SHOULD BE INSPECTED ANNUALLY AND AFTER EVERY MAJOR STORM. THE CONDITION
 OF THE PIPES SHOULD BE NOTED AND REPAIRS MADE AS NECESSARY. IF EROSION IS TAKING
 PLACE, THEN MEASURES SHOULD BE TAKEN TO STABILIZE AND PROTECT THE AFFECTED AREA OF THE
- B. SEDIMENT SHOULD BE CONTINUALLY CHECKED IN THE BASIN. WHEN SEDIMENT ACCUMULATIONS REACHED THE PREDETERMINED DESIGN ELEVATION. THEN THE SEDIMENT SHOULD BE REMOVED AND PROFESTLY DISPOSED OF.



IMPERVIOUS CORE SOIL

INPERVIOUS CORE AND PCND LINER SOIL SAMPLES
 AND SIEVE ANALYSIS TO BE SUBMITTED FOR APPROVAL PRIOR TO CONSTRUCTION.
 IMPERVIOUS SOILS TO WEET THE FOLLOWING CRITERIA,
 SOIL SHALL HAVE NO ORGANIC MATTER OR PROZEN MATERIA, AND NO STONES
 LARGER THAN 2/3 OF THE MAMMUN LIFT SDE. STONES AROUND ANY STRUCTURES AND/OR
 CONDUITS SHALL NOT EXCEED 3 INCHES. FILL MATERIAL SHALL HAVE THE FOLLOWING GRADATION.

SIEVE SIZE:	Z PASSING
#4	95 - 100
#4C	6D - 90
#100	40 60
#200	25 - 45

- THE CONTRACTOR SHALL USE CARE NOT TO OVER EXCAVATE AND DISTURB THE EXISTING SOIL AT THE BERN AND OUTLET PIPE AREAS.
- 3. IMPERMOUS SOL SHALL BE INSTALLED WITHIN THE LIMITS SHOWN ALONG THE BERM AREA AND SHALL BE PLACED IN LITTS NOT EXCEEDING 9" AND COMPACTES TO A IMPRACE SHALL BE THE WET WEIGHT AS DETERMINED BY MEDITIED TESTING (ASTM 1657).
- 4. AT THE IMPERVIOUS DAM AREA, THE DAM SHALL BE REYED INTO TO BOTTOM AND SIDES OF THE TRENCH A MINIMUM OF 2. THE IMPERVIOUS SQL SHALL BE PLACED IN LITES NOT EXCEDING 9" AND COMPACTED TO A MINIMUM 95% OF THE WET WEIGHT AS DETERMINED BY MODIFIED TESTING (ASTM 1557)



NEW, FROLAND, WELLAND ELANTS, INC.

NEW, BROLEND, FROSON COVIROL/AESTORATION MIX FOR DETETHION, PONDS

AND, MI ST. SCFES

ENYMUS RIPARRUS

SCHIZACHYRIUM SCOPARIUM

LITTLE BLUSSTEM

FACU

ANDROPOGORI GEARADI

RID FESCUE

ANDROPOGORI GEARADI

SWITCH GRASS

FAC

VERHORIA NOVEROPACENIS

NEW YORK (RONWEED

AGROSTIS FEREINAYS

UPLAND BENTGRASS

BEGGRA TROCS

BEGGRA TROCS

BEFACURULATUM SCOPARIO PLANTER

FACU

FACURULATURA

F

AUNCO IS FENDENCY

BIDEN'S FRONDOSA

EUPATORIUM MACULATUM (EUTROCHNIM MACULATUM) SPOTTED JOE PYÉ YMED

EUPATORIUM PERFOLIATUM

BOZIESET

FACV

ASTER NOVAE-ANGLIAE (SYMPHYOTRICHUM NOVAE-ANGLIA NEW ENGLAND ASTER

SCRPUS CYPERIUS

WOOL GRASS

FACW

FACW

FACW

FACW

MICRO POOL PONDS SEED MIX

NOT TO SCALE

DETENTION BASIN DETAIL

SECTION

Owner / Applicant: Sydney Elizabeth Boyer Kearsarge Mountain Road Warner, NH 03278 CONSTRUCTION DETAILS TAX MAP 33 LOT 18 Kearsarge Mountain Road Warner, New Hampshire

DATE DESCRIPTION DWN BY CK BY

REVISIONS

NOT TO SCALE

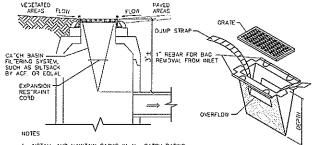
Rokeh Consulting, LLC 89 KING ROAD, CHICHESTER, NH PH: 603-387-8688 SCALE: AS NOTED

DATE: JUNE 28, 2023

DR. BY: JR CK. BY: JR

JOB NO. ______

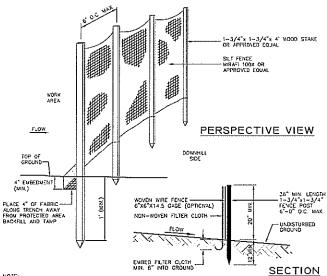
SHEET NO. 12 OF 16



- . NSTALL AND MAINTAIN SACKS IN ALL CATCH BASINS.
- 2 TO INSTALL SACK, REMOVE CATCH BASIN GRATE AND PLACE SACK IN OPENING, HOLD QUIT APPROXIMATELY SIX BIGHES OF THE SACK OUTSIDE THE FRAME FOR THE LIFTING STRAPS. REPLACE THE GRATE TO HOLD THE SACK IN PLACE.
- 3. THE SACK SHOULD BE INSPECTED AFTER EVERY STORM, OR ONCE EVERY TWO WEEKS, WHICH EVER OCCURS FIRST.
- 4 THE RESTRAINT CORD SHOULD BE WISBLE AT ALL TIMES. IF THE CORD IS COVERED WITH SEDMENT, THE SACK SHOULD BE EMPTION EMPTY THE SACK AWAY FROM THE CATCH BASIN TO PREVENT SEDBLENT FROM RE-ENTERING THE CATCH BASIN EMPTY THE SACK PER THE MARUFACTURES RECOMMENDATIONS.
- 5. REPLACE THE SACK IN THE CATCH BASHI AFTER THE SACK HAS BEEN EMPTIED. ONCE CONSTRUCTION IS COMPLETE AND ALL DISTURBED AREAS HAVE BEEN STABILIZED FAMILY OF A HEALTHY VEGETATIVE COVER, REMOVE THE SACK FROM THE CATCH

"SILT-SAK" SEDIMENT CONTROL

FOR DRAINAGE STRUCTURES



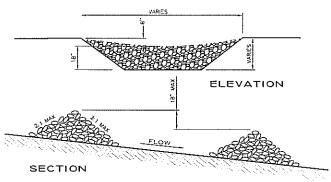
NOTE:
A MULCH SILT SOX TUBE METHOD MAY BE SUBSTITUTED FOR SILT FEMCE IN AREAS IF DESIRED. CONSULT WITH MANUFACTURERS SPECIFICATIONS FOR INSTALLATION METHODS.

MAINTENANCE

- SILT FENCES ARE TO BE INSPECTED IMMEDIATELY AFTER EVERY RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REPAIRS THAT ARE REQUIRED SHALL BE MADE IMMEDIATELY
- 3. SEDIMENT DEPOSITS SHOULD BE INSPECTED AFTER EVERY STORM EVENT. THE DEPOSITS SHOULD BE REMOVED WHEN THEY REACH APPROXIMATELY ONE HALF OF THE BARRIER.
- 4. SEDIMENT DEPOSITS THAT ARE REMOVED OR LEFT IN PLACE AFTER THE FASRIC HAS BEEN REMOVED, SHALL BE GRADED TO CONFORM WITH THE EXISTING TOPOGRAPHY AND VEGETATED

SILT FENCE DETAIL

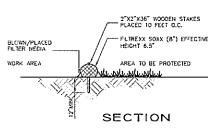
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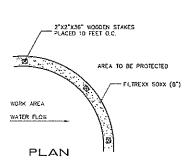


- 1. STRUCTURES SHALL BE INSTALLED ACCORDING TO THE DIMENSIONS SHOWN ON THE PLANS AT THE APPROPRIATE SPACING.
- 2. CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER SO THAT EROSION WILL BE
- 4. STRAW OR STRAW BALES SHALL BE ANCHORED INTO THE SOL USING 2"x2" STAKES DRIVEN THROUGHOUT THE BALES AT LEAST 18 INCHES INTO THE SOIL.
- 5. SEEDING, FERTILIZING AND MULCHING SHALL CONFORM TO THE RECOMMENDATIONS IN THE APPROPRIATE BMP
- G. STRUCTURES ARE TEMPORARY AND ARE TO BE REMOVED FROM THE CHANNEL WHEN THEIR USEFUL LIFE HAS EXPIRED, WHEN A SOUID STAND OF GRASS HAS GROWN AND STABILIZED.

STONE CHECK DAM

NOT TO SCALE





NOTE

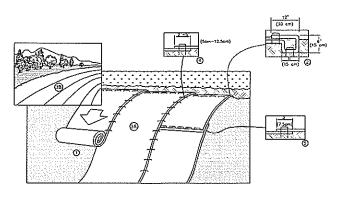
- ALL MATERIAL TO MEET FUTREXX SPECIFICATIONS
- FILTER MEDIA TO MEET APPLICATION REQUIREMENTS. 3. COMPOST MATERIAL TO BE DISPERSED ON-SITE, AS DETERMINED BY THE ENGINEER
- MAXMUM SLOPE LENGTH ABOVE THE FILTREXX SOXX IS 200 FEET FOR A 10% SLOPE, 140 FEET FOR A 15% SLOPE, 100 FEET FOR A 20% SLOPE, 80 FEET FOR A
- 5. CONTRACTOR IS TO BE FILTREXX CERTIFIED AS DETERMINED BY MANUFACTURER
- STAKES SHALL BE INSTALLED THROUGHT THE MIDDLE OF THE SOXX ON TO FOOT CENTERS.
- SEDIMENT CONTROL SHOULD BE PLACED NEAR PARALLEL TO THE BASE OF THE SLOPE AS SHOWN ON THE PLANS.
- LOOSE COMPOST MAY BE BACKFILLED ALONG THE UPSLOPE SIDE OF THE SOXX, FILLING THE SEAM BETWEEN THE SOXL AND THE DEMCE.

MAINTENANCE

- THE CONTRACTOR SHALL MAINTAIN THE SEDIMENT CONTROL IN A FUNCTIONAL CONDITION AT ALL TIMES AND IT SHALL BE ROUTINELY INSPECTED.
- IF DAMAGED, IT SHALL BE REPAIRED OR A SECTION REPLACED IF BEYOND REPAIR
- THE CONTRACTOR SHALL REMOVE SECIMENT AT THE BASE OF THE UPSLOPE SIDE OF THE SEDMENT CONTROL WIEN ACCUMULATION HAS REACHED 1/2 OF THE EFFECTIVE HEIGHT OF THE CONTROL OF 3.25 INCHES (FOR AN 8 BICH SOXX THE EFFECTIVE HEIGHT IS 6.5 INCHES).
- THE FILTER MEDIA MAY BE DISPERSED ON SHE ONCE THE AREA HAS BEEN PERMANENTLY STABILIZED AND CONSTRUCTION ACTIVITY HAS CEASED IN THAT

'FILTREXX' SEDIMENT CONTROL DETAIL ("SOXX")





- 1. PREPARE SOL BEFORE RETALLING BLANKETS, INCLUDING MY MECESSARY APPLICATION OF LINE, FERTILIZER, AND SEED SOLD IN THE MIDD USING CELL-O-SEED MUST BE RESTALLED WITH PAPER SOLD DOWN AS A THE TOO OF THE SOLDE BY MACHING THE BLANKET STATUED BETON THE MEDICAL FORCING OF THE MEDICAL MACHINE MIDD MACHINE TO SOLD THE MEDICAL MACHINE MIDD MACHINE M

- CONSECUTIVE BLANKETS SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHRIGLE STYLE) WITH AN APPROXIMATE 3" (7.5cm) OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" (30cm) APART ACROSS ENTIRE

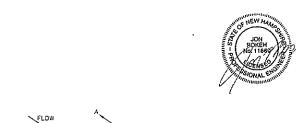
NOTE: "IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15cm) MAY BE NECESSARY TO PROPERLY SECURE THE BLANKETS.

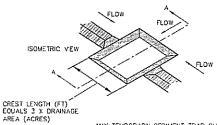
1) THIS PRACTICE SHALL BE USED FOR ALL ROADWAY AND DRIVEWAY SLOPES STEEPER THAN 3:1. WITH A VERTICAL GRADE HIGHER THAN 3 FEET.

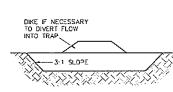
SLOPE STABILIZATION

FOR EROSION CONTROL

NOT TO SCALE







SECTION A-A

ANY TEMPORARY SEDIMENT TRAP SHALL BE IN ACCORDANCE WITH NHDES ENV-WQ 1506.10 REQUIREMENTS

TEMPORARY SEDIMENTATION TRAP DETAIL

NOT TO SCALE

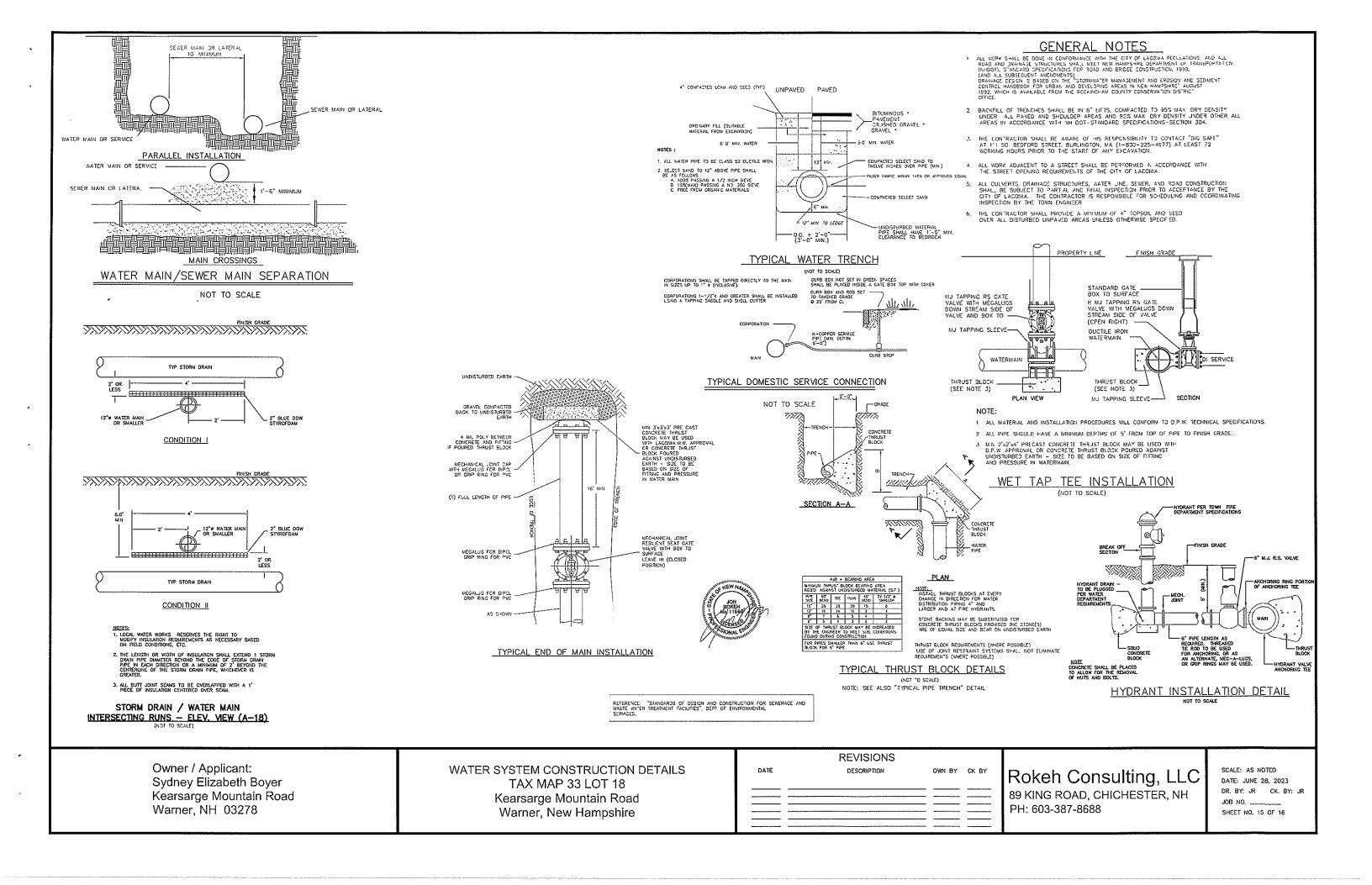
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CONSTRUCTION DETAILS TAX MAP 33 LOT 18 Kearsarge Mountain Road Warner, New Hampshire

REVISIONS DESCRIPTION DWN BY CK BY

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SCALE: AS NOTED DATE: JUNE 28, 2023 DR. BY: JR CK, BY: JR JOB NO. __ SHEET NO. 13 OF 16





- THE MANHOLE VACUUM TEST SHALL IN ADSORDANCE WITH ASTMICT244 AND CONFORM TO THE FOLLOWING
- THE INITIAL VACUUM GALGE TEST PRESSURE SHALL BE 10 INCHES
- H3: AND
 MINIMUM ACCEPTABLE TEST HOLD TIME FOR A 1-INCH HG PRESSURE
 DROP TO 9 NOHES HG SHALL BE:
 A NOT LESS THAN 2 MINUTES FOR MANHOLES LESS THAN 10
 FEET DEEP IN DEPTH, B NOT LESS THAN 2.5 MINUTES FOR MANHOLES 10 TO 15 FEET DEEP; AND DEEP, AVJ C NOT LESS THAN 3 MINUTES FOR MANHOLES MORE THAN 15 FEET DEEP,
- THE MANHOLE SHALL BE REPAIRED AND RETESTED IF THE TEST HOLD TIMES FAIL TO ACHIEVE THE ACCEPTANCE LIMITS SPECIFIED ABOVE.
- FOLLOWING COMPLETION OF THE LEAKAGE TEST, THE FRAME AND COVER SHALL BE PLACED ON THE TOF OF THE MANHOLE OR SOME OTHER MEANS JSED TO PREVEIT ACCIDENTAL ENTRY BY UNAITHORIZED PERSONS, CHILDREN, OR ANIMALS, UNTIL THE CONTRACTOR IS READY TO MAKE FINAL ADJUSTMENT TO GRADE.

MINIMUM SIZE PIPE FOR HOUSE SERVICE SHALL BE SIX INCHES.

PIPE AND JOINT MATERIALS

A. PLASTIC PIPE:

- PVC SEWER PIPE AND FITTINGS SHALL CONFORM TO ASTM 02412 (SBR 35 M NIMUM). METH-CDS OF SHIPPING AND STORAGE ON SITE SHALL BE SUCH AS TO AVOID INJURY TO THE PIPE. DAMAGED PIPE SHALL BE REJECTED AND REMOKED FROM THE JOB SITE.

2. - ALL FITTINGS SHALL BE INJECTION MOLDED FITTINGS. FABRICATED FITTINGS ARE NOT ALLOWED EXCEPT AS PERMITTED BY THE TOWN

3. — JOINTS FOR PVD PIPE SHALL BE OIL RESISTANT COMPRESSION RINGS OF ELASTOMERIC MATERIAL CONFORMING TO ASTM D3212
MANUFACIDER'S INSTRUCTIONS FOR INSTALLATION SHALL BE FOLLOWED.
SOLVENT CEMENT JOINTS SHALL NOT BE PERMITTED.

ADJUST TO GRADE WITH BRICK OR PRECAST CONCRETE RINGS MAXIMUM 12° ADJUSTMENT

BITUMASTIC

FACE OF MANHOLE

DUCTILE IRON PIPE SHALL CONFORM TO AWWA C151/A2150 & A21.51. PIPE SHALL HAVE EITHER THE RUBBER-RING TYPE, PUSH-ON COINT, OR STANDARD MECHANICAL JOINT.

5. FORCE MAIN HOPE FORCE MAIN SEWER PIPE SHALL CONFORM WITH ASTM 0303S. PVC FORCE MAN PIPE SHALL CONFORM WITH ASTM 02241 OR ASTM 01785. FORCE MAIN CLEANOUT VALVES AND FITTINGS SHALL BE INSTALLED IN MAHOLES MEETING THE RECURREMENTS OF ENV-WO 704.12 TO 704.17.

STAINLES STEEL TO CLAMP

PIPE

KOR-N-SEAL

JOINT SLEEVE

<u>PLAN</u>

GRAVITY SEVER PIPE TESTING, PEP Env-Ma 04.06

- LOW-PRESSURE AIR TESTING SHALL BE IN CONFORMANCE WITH A ASTM F1417 "STANDARD TEST METHOD FOR INSTALLATION ACCEPTANCE OF PLASTIC GRAVITY SEVER LINES USING B JY-BELL PVC PIPE ASSOCIATION UNI-8-6, "LOW-PRESSURE
 - AIR TESTING OF INSTALLED SEWER PIPE
- ALL NEW GRANTY SEWERS SHALL BE CLEANED AND VISUALLY INSPECTED USING A LAMP TEST AND BY INTRODUCING WATER TO DETERMINE THAT THERE IS NO STANDING WATER IN THE SEWER, AND TRUE TO LINE AND GRADE FOLLOWING INSTALLATION, AND PRIOR USE.
- ALL PLASTIC SEWER PIPE SHALL WSUALLY INSPECTED AND DEFLECTION TESTED NOT LESS THAN 30 DAYS NOR MORE THAN 90 DAYS FOLLOWING THE INSTALLATION
- THE MAXIMUM ALLOWABLE DEFLECTION OF FLEXIBLE SEVER PIPE THE WASHOUN ALLOWABLE DETECTION OF TERRILE SERVER PIPE. SHALL BE 5 PERCENT OF AVERAGE INSIDE CHARTER. A RIGID BALL OR MANDREW WITH A DIAMETER OF AT LEAST 95% OF THE AVERAGE ASSIDE PIPE DAVETER SHALL BE USED FOR TESTING PIPE DEFLECTION. THE DEFLECTION TEST SHALL BE CONDUCTED WITHOUT MECHANICAL PULLING DEWICES.

FRAME TO BE SET IN BED OF MORTAR

BEDDING (SEE NOTE 5)

PIPE

PIPE

5" MIN.

TYPICAL SECTION

MAXIMUM DISTANCE TO FLEXBLE JOINT (SEE NOTE 6)

FORCE MAINS SHALL BE TESTED IN ACCORDANCE WITH SECTION 5 OF AWWA CGOD "INSTALLATION OF CAST IRON WATER MAINS AND HERIR APPLITEMANCES". STANDARD IN EFFECT WHEN THE TEST IS CONDUCTED, AT A PRESSURE EQUAL TO THE GREATER OF 210 PERCENT OF THE DESIGN OPERATING TOTAL DYNAMIC HEAD OR AT LEAST 100 PS.

SEWER MANHOLE NOTES:

SEWER MANHOLE NOTES:

1.17 IS THE INTERIOR THAT THE MANHOLE, INCLIDING ALL COMPONENT PARTS, IN THE STREET THAT THE MANHOLE, INCLIDING ALL COMPONENT PARTS, INCLIDENCES DECOMED THE INCLIDION SERVICE REQUIREMENTS AND COMPRIGHANDING SHALL BE AS SHOWN ON THE DRAWING, MANHOLES MAY BE AN ASSUBLY OF PRECAST SECTIONS. WITH STEEL REINFORCEMENT, WITH ADEQUATE JOINTING, OR CONCRETE CAST MONOLITHICALLY IN PLACE WITH REINFORCEMENT, IN ANY APPROVED MANHOLE, THE COMPLETE STRUCTURE SHALL BE OF SUCH MATERIAL AND QUALITY AS TO WITHSTAND LOADS OF B TONS (H-20 LOADING) WITHOUT FAILURE AND PREVENT LEAKAGE IN EXCESS OF DIE CALLON PER DAY PER VERTICAL FOOT OF MANHOLE, CONTINUOUSLY FOR THE LIFE OF THE STRUCTURE. A PERICO CENERALLY IN EXCESS OF 25 YEARS IS TO BE UNDERSTOOD IN BOTH CASES, MANHOLE STRUCTURES SHALL HAVE A LIFE IN EXCESS OF 25 YRS.

2. PRECAST CONCRETE MANHOLES SHALL CONFORM WITH ASTM C478 PER ENV—WO 704.13 (A)(3) BARRELS AND CONE SECTIONS SHALL BE REINFORCED CONCRETE PER ENV—WO 704.12(d). PRECAST CONCRETE BER REPORTED TO ASTM C478. ALL PRECAST SECTIONS AND BASES SHALL HAVE THE DATE OF MANHEACHIRER AND THE MAME TRADEMARK OF THE MANUFACTURER MIPRESSED OR INDELIBLY MARKED ON THE SIDE WALL.
BASE SECTIONS SHALL BE MONOLITHCE TO A POINT AT LEAST 5° ABDVE THE CROWN OF INCOMING PIPE PER ENV—WQ 704.12(e).

ALL SEWERS, MANHOLES AND FORCEMAINS SHALL BE TESTED FOR WATER TIGHTNESS BY USE OF EITHER WATER OR LOW PRESSURE AIR TESTS, LOW PRESSURE AIR TESTS SHALL CONFORM TO ASTM GEBS. SERVICES TO BE TESTED AT SAME TIME AS MAINS PRIOR TO BUILDING CONNECTION.

4. INVERTS AND SHELVES: MANHOLES SHALL HAVE A BRICK PAVED SHELT AND INVERT CONSTRUCTED TO CONFORM TO THE SIZE OF PIPE AND FLOW. AT CHANGES IN ORRECTION, THE INVERTS SHALL BE LAND OUT IN CURVES OF THE LONGEST RADIUS POSSIBLE TANCENT TO THE CENTER LINE OF THE SEWER PIPES. SHELVES SHALL BE CONSTRUCTED TO THE ELEVATION OF THE HIGHEST FIPE CROWN AND SLOPE TO DRAIN TOWARD THE FLOWING THROUGH CHANNEL LONDERLAYMENT OF INVERT AND SHELF SHALL BE PLACED AFTER THE STALL SHALL BE PLACED AFTER TOWARD THE THROUGH CHANNEL LONDERLAYMENT OF INVERT AND SHELF SHALL BE PLACED AFTER TOWARD THE SHALL COUPLY WITH ASTIN C32. CLAY OR SHALE FOR GRADE SS HAND BRICK. THE SHALL COUPLY WITH ASTIN C32. CLAY OR SHALE FOR GRADE SS HAND BRICK. MSDARY SHALL CONFORM WITH ASTIN C32 PER ENV-WO 704.13 (A)(9) MOSTER SHALL CONFORM WITH EATH C37 CLY DE RENV-WO 704.13 (A)(9) MOSTER SHALL CONFORM WITH EATH C37 CLY DE RENV-WO 704.13 (A)(9) MANHOLE INWEST AND SHELF SHALL BE BRICK MASONEY PER FLY-WO 704.13 (A) INVERT AND SHELF SHALL BE BRICK MASONRY PER ENV-WO 704.12(K)

5, BEDDING: SCREENED CRUSHED STONE FREE FROM CLAY, LOAM, ORGANIC MATTER AND MEETING ASTM C33 ATIEN AND MEETING ASIM C33

100X PASSING 1 INCH SCREEN

90X PASSING 1 INCH SCREEN

90X PASSING 1 INCH SCREEN

90X PASSING 1 INCH SCREEN

0 - 10X PASSING 1 INCH

1 INC

6. FLEXIBLE JOINT: A FLEXIBLE JOINT SHALL BE PROVIDED WITHIN THE FOLLOWING DISTANCES FROM MANHOLE JOINTS:

9. PIPE TO MANHOLE JOINTS SHALL BE ELASTOMERIC, RUBBER SLEEVE WITH WATERTIGHT JOINTS AT THE MANHOLE OPENING AND OPENING SUFFACES, CAST INTO THE WALL OR SECURED WITH STAINLESS STEEL CLAMPS ELASTOMERIC SCALING RING CAST IN MANHOLE OPENING WITH SEAL FORWERD ON THE SUBFACE OF THE PIPE BY COMPRESSION OF THE RING AND NON-SUBRING GOVULTED JOINTS WHERE WATERTIGHT DONDING TO THE MANHOLE AND PIPE CAN BE OSTAINED.

10. FOR BITUMASTIC TYPE JOINTS THE AMOUNT OF SEALANT SHALL BE SUFFICIENT TO FILL AT LEAST 75 % OF THE JOINT CAVITY APPROVED BITUMASTIC SEALANTS:

ALL GASKETS AND SEALANTS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS WRITTEN INSTRUCTIONS.

11. MORTAR SHALL CONFORM WITH ENV-WQ 704.13 MORTAR SHALL BE TYPE I/N PORTLAND CEMENT

12. UNLESS OTHERWISE NOTED ALL GRANULAR MATERIAL SHALL BE PLACED IN 12" LIFTS AND COMPACTED TO 95% OF THE MODIFIED PROCTOR TEST, 13. STEPS ARE NOT ALLOWED

REFERENCE: "STANDARDS OF DESIGN AND CONSTRUCTION FOR SEMEPAGE AND MASTE WATER TREATMENT FACILITIES", DEPT OF EVARONMENTAL SERVICES, EINWQ-700



COVER PLATE

--- 32" ----

--- 30- ---

FRAME SECTION

SEWER MANHOLE COVER NOTES: 1. CONTACT SURFACES OF COVERS AND FRAMES SHALL BE MACHINED AT THE FOUNDRY TO PREVENT ROCKING OF COVERS IN 1-1/ 2. CASTINGS SHALL BE EQUAL TO CLASS 30. CONFORMING TO ASTM A48. COVER SECTION 3. WHERE MANHOLE TOPS ARE TO BE FLOCOED BY WATER THEY WILL HAVE A WATER TIGHT COVER.

A. FRAMES AND COVERS: MANHOLE FRAMES AND COVERS SHALL BE OF HEAVY DUTY DESIGN AND PROVIDE A 3D INCH CLEAR OFENING, A 3 INCH (LIGHT) WORD "SEWER" FOR SEWERS OR "DRAIN" FOR DRAINS SHALL BE PLAINLY CAST INTO THE CENTER OF EACH COVER, MANHOLE COVERS SHALL HAVE NON-PERITATION PICK HOLES. 5. FRAMES AND COVERS SHALL BE NEENAH MODEL R-1975 OR APPROVED EQUAL.

6. CASTINGS SHALL CONFORM WITH ASTM A48/48M PER ENV-WO 704,13

SEWER MANHOLE COVER

NOT TO SCALF

NOT TO SCALF 1. ORDERED EXCAVATION OF UNSUITABLE MATERIAL BELOW CRADE. REFILL WITH BEDDING MATERIAL. SEE ALSO NOTE 7.

BEDDING: PER EVI-WQ704,11(a) SAND FILL FREE FROM CLAY, LOAM, ORGANIC MATTER AND MEETING ASTM C33-03 STONE SIZE NO. 67.

1 INCH SCREEN 3/4 INCH SCREEN 3/8 INCH SCREEN # 4 SIEVE # 8 SIEVE

WHERE ORDERED BY THE ENGINEER TO STABILIZE THE TRENCH BASE, CRADED CRUSHED STONE 1/2 INCH TO 1-1/2 INCH SHALL BE USED.

SURFACE COURSE AS SPECIFIED

LOCATABLE WARNING

12 MIN

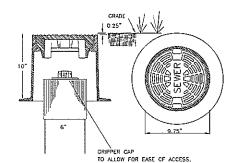
1/2 00

6 MIN. IN EARTH
12" MIN. IN LEDGE
NOTE:

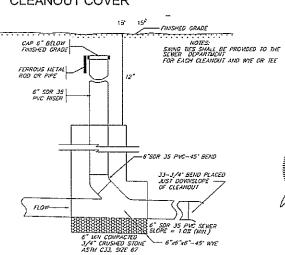
2. SAND BLANKET: Env-Wq704.11(b) SAND SHALL CONSIST OF INERT NATURAL SAND CONFORMING TO THE ASTM STANDARD SPECIFICATIONS FOR CONCRETE (FINE) AGGREGATES, DESIGNATION C33 AS FOLLOWS:

100% PASSING 95-100% PASSING 80- 100% PASSING 50 - 85% PASSING 10 - 30% PASSING 3/8 INCH SCREEN # 4 SIEVE # 8 SIEVE # 16 SIEVE # 50 SIEVE FINENESS MODULUS 2.3-3.1

FILTER FABRIC MIRAFI 140N OR APPROVED EQUAL SHALL BE INSTALLED ABOVE PIPE BETWEEN THE SAND AND STONE LAYER



CLEANOUT COVER



TYPICAL SEWER CLEANOUT

TYPICAL SANITARY SEWER TRENCH DETAIL NOT TO SCALE

CROSS COUNTRY
EARTH CONSTRUCTION

SUITABLE MATERIAL

4. SUITABLE MATERIAL: TRENCH BACKFILL MATERIAL SHALL CONFORM WITH ENV-WO 70-411 (b.). IN ROADS, ROAD SHOULDERS, WALK-WAYS AND TRAVELED WAYS, SUITABLE MATERIAL FOR TRENCH BACKFILL SHALL BE THE NATURAL MATERIAL FOR TRENCH BACKFILL SHALL BE THE NATURAL MATERIAL EXCAVATED DURING THE COURSE OF CONSTRUCTION, BUT SHALL EXCLUDE DEBINS; PLECES OF PAVEMENT, RORANC MATTER, TOP SOIL, ALL WET OR SOFT MUCK, PEAT OR CLAY, ALL EXCAVATED LEDGE MATERIAL, AND ALL ROCKS OVER SX INCHES IN LARGEST DIMENSON, OR ANY MATERIAL WHICH, AS DETERMINED BY THE ENGREER, WILL NOT PROVIDE SUFFICIENT SUPPORT OR MAINTAIN THE COMPLETED CONSTRUCTION IN A STABLE CONDITION.

IN CROSS-COUNTRY CONSTRUCTION, SUITABLE MATERIAL SHALL BE AS DESCRIBED ABOYE, EXCEPT THAT THE ENGREER MAY PROMIT THE UND TO THE STABLE MOTORIST CONSTRUCTION WILL BE ENTRIELY STABLE AND PROVIDED THAT EASY ACCESS TO THE SEVER FOR MARITEMANCE AND POSSIBLY RECONSTRUCTION WILL BE CHITCHLY STABLE AND PROVIDED THAT EASY ACCESS TO THE SEVER FOR MARITEMANCE AND POSSIBLY RECONSTRUCTION. WHEN NECESSARY WILL BE PRESERVED.

FOR EXCAVATION IN LEDGE, EXCAVATION SHALL EXTEND AT LEAST 12" BELOW THE BOTTOM OF THE SEWER PIPE PER ENU-WAY 704-11 (d).

S. BASE COURSE, IF ORDERED BY THE ENGINEER, SHALL

S. BASE COURSE, IF ORDERED BY THE ENGINEER, SHALL MEET THE REQUIREMENTS OF DIMSON 300 OF THE LATEST EDITION OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION OF THE STATE OF NEW HAMPSHIRE, DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS.

6. WOOD SHEETING, IF REQUIRED, WHERE SHEETING IS PLACED ALCHOSIDE THE PIPE AND EXTENDS BELOW MID-DIAMETER, IT SHALL BE CUT OFF AND LEFT IN PLACE TO AN ELEVATION NOT LESS THAN 1 FOOT ABOVE THE TOP OF THE PIPE. WHERE SHEETING IS ORDERED BY THE ENGINEER TO BE LEFT IN PLACE, IT SHALL BE CUT OFF AT LEAST 3 FEET BELOW RINISHED GRADE, BUT NOT LESS THAN 1 FOOT ABOVE THE TOP OF THE PIPE.

7. W = MAXIMUM ALLOWABLE TRENCH WIDTH TO A PLANE 12 INCHES ABOVE THE PIPE. FOR PIPES 15 NICHES NOMINAL DIAMETER OR LESS, W SHALL BE NO MORE THAN 36 NICHES, FOR PIPES OREAIER THAN 15 NICHES NOMINAL DIAMETER, W SHALL BE 24 NICHES PLUS PIPE 0.D. W SHALL AISO BE THE PAYMENT WIDTH TOR LEDGE EXCAVATION AND FOR ORGERED EXCAVATION BELOW GRADE.

CROSS COUNTRY EARTH
CONSTRUCTION WITH SHEETING

SUITABLE

-WOOD SHEETING

1/2 00

6 MIN. IN EARTH

- SAND BLANKET

8. FOR CROSS COUNTRY CONSTRUCTION, BACKFILL OR FILL SHALL BE NOUNDED TO A HEIGHT OF 6 INCHES ABOVE THE ORIGINAL GROUND SURFACE.

ORIGINAL CROUND SURFACE.

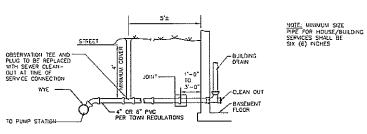
9. NEW HAMPSHIED EPARTMENT OF ENVIRONMENTAL
SERVICES DESIGN STANDARDS REQUIRE 10 FT.
SEPARATION BETWEEN WATER AND SEWER. HOWEVER, SHOULD
CONSTRUCTION REVEAL OF EXPOSE A WATERLINE (MANN OR
SERVICE) RUNNING APPROMIMATELY PARALLEL AND LESS
THAN 10 FT. HORIZONTALLY FROM THE PROPOSED SEWER
INSTALLATION AND WHERE IT IS NOT PRACTICABLE TO
RELOCATE THE SEWER, THE FOLLOWING METHODS OF
PROTECTION MUST BE EMPLOYED.

A. SEWER PIPE SHALL BE CLASS 52 DUCTILE IRON PIPE.

8. JOINTS SHALL BE PRESSURE TESTED WITH ZERO LEAKAGE AT 25 POUNDS PER SQUARE INCH FOR GRAWITY SEWERS, AND 1-1/2 TIMES WORKING PRESSURE FOR FORCE MAINS.

10. WHERE WATERLINES AND SEWER LINES CROSS THEY CROSS AS PERPENDICULAR AS POSSIBLE AND THE WATER MAIN SHALL SHALL CROSS AT LEAST 18 "INCHES AROVE THE SEWER. FURTHER, THE SEWER JOHN'S SHALL BE LOCATED AT LEAST 9 FEET HORIZONTALLY FROM THE WATERMANN SEWER JOHN'S SHALL BE PRESSURE TESTED WITH ZERO LEAKAGE AT 25 POUNDS PER SQUARE INCH FOR GRANTY SEWERS, AND AT 1-1/2 TIMES WORKING PRESSURE FOR FORCE MAINS.

11. ALL SEWERS AT 8 PERCENT OR GREATER SLOPE SHALL HAVE TRENCH DAMS INSTALLED.

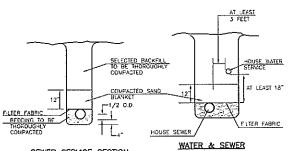


SEE NOTE 6

LOCATABLE WARNING

1/2 00

SANITARY SEWER SERVICE DETAIL



SEWER SERVICE SECTION

89 KING ROAD, CHICHESTER, NH

PH: 603-387-8688

REVISIONS DESCRIPTION Rokeh Consulting, LLC

SCALE: AS NOTED DATE: JUNE 28, 2023 DR. BY: JR CK. BY: JR JOB NO. ___ SHEET NO. 16 OF 16

Owner / Applicant: Sydney Elizabeth Boyer Kearsarge Mountain Road Warner, NH 03278

SANITARY SEWER MANHOLE

TAX MAP 33 LOT 18 Kearsarge Mountain Road Warner, New Hampshire

SEWER SYSTEM CONSTRUCTION DETAILS