

DRAINAGE REPORT

Adventure Camper Rentals, LLC

Tax Map 6 Lot 16
Route 4
Nottingham, NH

April 18, 2022

Prepared For:

Adventure Camper Rentals, LLC

30 Mill Road
Northwood, NH 03261

Prepared by:

RJB Engineering, LLC

2 Glendale Road
Concord, NH 03301

In Association with:

N.H. Land Consultants, PLLC

683C First NH Turnpike
Northwood, NH 03261

**Adventure Camper Rentals, LLC
Tax Map 6, Lot 16, Nottingham, NH**

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Adventure Camper Rentals, LLC
Tax Map 6, Lot 16, Nottingham, NH

INTRODUCTION:

This project is a proposed commercial site plan located on NH Route 4 in Nottingham, NH. The project includes the construction of 1 building including a garage and office space and gravel parking/display area. Additional site improvements include drainage, utilities, and other related site improvements. The total area of disturbance for the construction of the site is approximately 37,000 sf. or 0.85 acres.

PREDEVELOPMENT CONDITIONS:

The subject property is located on NH Route 4, just westerly of Smoke Street. The total property area is 10.72 acres and has 1,313+/- feet of frontage on NH Route 4.

There are wetland pockets throughout the property and runs southerly to a power line easement and eventually under Kennard Road, eventually to Little River. The site is undeveloped and mostly wooded. The site slopes towards the powerline on the property with varying slopes from gently sloping to steep slopes. The entire site is 43B/C-Canton, fine sandy loam, very stony. This soil has a relatively highwater table, well drained and is classified as aHydrological Group B soil.

The site drainage is one drainage area. The drainage area drains to the west into an existing wetland complex, which flows southerly to Kennard Road and Little River. The total watershed area included in the analysis is 0.85 acres.

POST DEVELOPMENT CONDITIONS:

This expansion to the site will include construction of a driveway, open area for display of campers, parking and a small building (1,485 sq ft) and related site improvements for drainage. The drainage system is open swales, forebays, small detention pond that will discharge to wetland complex to the west on the subject site. There is no change proposed to existing drainage patterns on the property.

Drainage from proposed impervious areas is routed through the detention pond strategically located on the lower side of the site between the improvements and existing wetland complex. The detention basin is designed to detain peak stormwater flows so that post development stormwater flows are less than pre-development stormwater flows.

DESIGN METHODOLOGY:

The drainage analysis in this study was completed using HydroCad Version 10.0-25, a stormwater modeling program utilizing TR-20 and TR-55 methodology. This program performs both the hydrologic computations for determination of runoff flows, and the hydraulic calculations for pipe, ditch, and pond design. Calculations were performed for the 25-year return frequency storms per Section 10.3 of the Nottingham Site Plan Review Regulations. Precipitation estimates were taken from the Northeast Regional Climate Center Extreme Precipitation Tables. The following design parameters were used:

Rainfall distribution:
25-year storm rainfall:

Type III
5.86 inches

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Tax Map 6, Lot 16, Nottingham, NH**

DESIGN ANALYSIS:

Stormwater flows were analyzed to one, Westerly, design node. Peak runoff flows have been evaluated to ensure that post-development flows and volumes don't exceed pre-development flows and volumes. Mitigation for increased flows from the additional impervious surfaces has been provided by including the proposed detention systems as previously described. The peak flows are shown in the accompanying table:

Storm Event	PRE-DEVELOPMENT FLOWS (CFS)	POST-DEVELOPMENT FLOWS (CFS)
25-year		
100R	1.67	1.52
Result		-0.15

STORMWATER TREATMENT:

Stormwater treatment is provided to reduce pollutants and sediment from discharging into downstream public waters. As previously noted above, several best management practices are proposed for this project.

The detention pond is designed with a sediment forebay. The forebay provides pretreatment of runoff for initial settling of coarse sediments. Roadside swales are designed to be stone lined to protect against erosion and sediment transportation.

EROSION CONTROL:

This site has moderate slopes and potentially wet soil conditions. Cut and fill slopes should therefore be carefully monitored until vegetation is fully established and they are fully stabilized. Several best management practices are proposed to minimize erosion during construction. Following are some of the practices required for the development:

- Proper construction sequencing
- Minimizing disturbed area as much as practical
- Silt Fence
- Stone lined swales
- Stabilized construction entrance

**Adventure Camper Rentals, LLC
Tax Map 6, Lot 16, Nottingham, NH**

EXTREME PRECIPITATION TABLES

Extreme Precipitation Tables

Northeast Regional Climate Center

Data represents point estimates calculated from partial duration series. All precipitation amounts are displayed in inches.

Extreme Precipitation Estimates

	5min	10min	15min	30min	60min	120min		1hr	2hr	3hr	6hr	12hr	24hr	48hr		1day	2day	4day	7day	10day	
25yr	0.47	0.75	0.95	1.31	1.75	2.29	25yr	1.51	2.10	2.71	3.52	4.55	5.86	6.73	25yr	5.19	6.47	7.33	8.58	9.59	25yr

Lower Confidence Limits

	5min	10min	15min	30min	60min	120min		1hr	2hr	3hr	6hr	12hr	24hr	48hr		1day	2day	4day	7day	10day	
25yr	0.44	0.67	0.83	1.19	1.57	1.90	25yr	1.35	1.86	2.11	2.82	3.63	4.67	5.28	25yr	4.13	5.08	5.90	7.50	8.36	25yr

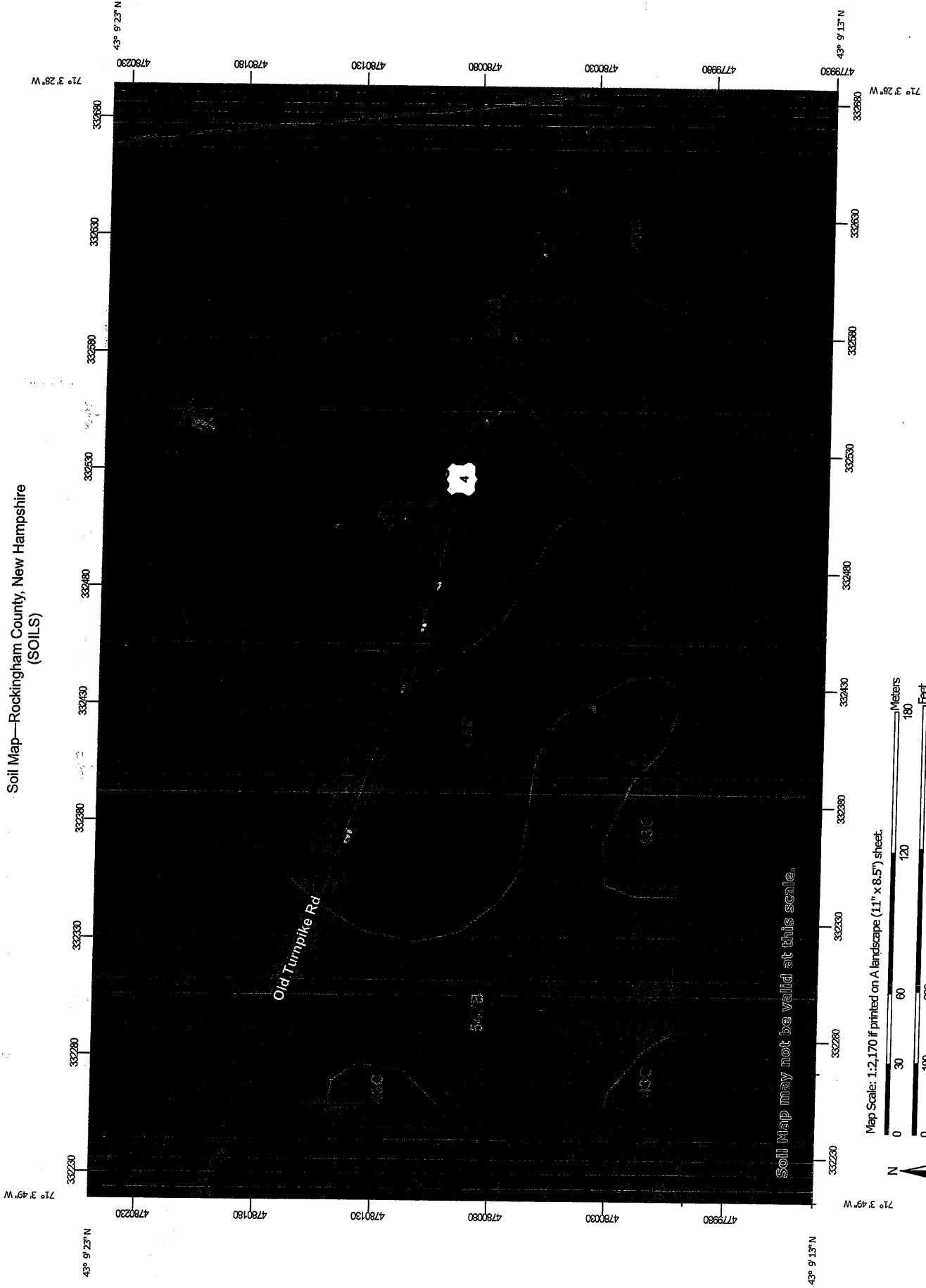
Upper Confidence Limits

	5min	10min	15min	30min	60min	120min		1hr	2hr	3hr	6hr	12hr	24hr	48hr		1day	2day	4day	7day	10day	
25yr	0.57	0.86	1.07	1.53	2.02	2.47	25yr	1.74	2.42	2.85	3.84	4.80	7.04	8.32	25yr	6.23	8.00	8.90	9.72	10.79	25yr



WEB SOILS

Soil Map—Rockingham County, New Hampshire
(SOILS)



Soil Map may not be valid at this scale.











































Map Scale: 1:2,170 if printed on A landscape (11" x 8.5") sheet.

Map projection: Web Mercator Corner coordinates: WGS84 Edge ticks: UTM Zone 19N WGS84

Natural Resources
Conservation Service

Web Soil Survey
National Cooperative Soil Survey

MAP LEGEND

 Area of Interest (AOI)	 Spoil Area
 Area of Interest (AOI)	 Stony Spot
 Soils	 Very Stony Spot
 Soil Map Unit Polygons	 Wet Spot
 Soil Map Unit Lines	 Other
 Soil Map Unit Points	 Special Line Features
 Special Point Features	 Water Features
 Blowout	 Streams and Canals
 Borrow Pit	 Transportation
 Clay Spot	 Rails
 Closed Depression	 Interstate Highways
 Gravel Pit	 US Routes
 Gravelly Spot	 Major Roads
 Landfill	 Local Roads
 Lava Flow	 Background
 Marsh or swamp	 Aerial Photography
 Mine or Quarry	
 Miscellaneous Water	
 Perennial Water	
 Rock Outcrop	
 Saline Spot	
 Sandy Spot	
 Severely Eroded Spot	
 Sinkhole	
 Slide or Slip	
 Sodic Spot	

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
 Web Soil Survey URL:
 Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Rockingham County, New Hampshire
 Survey Area Data: Version 24, Aug 31, 2021

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

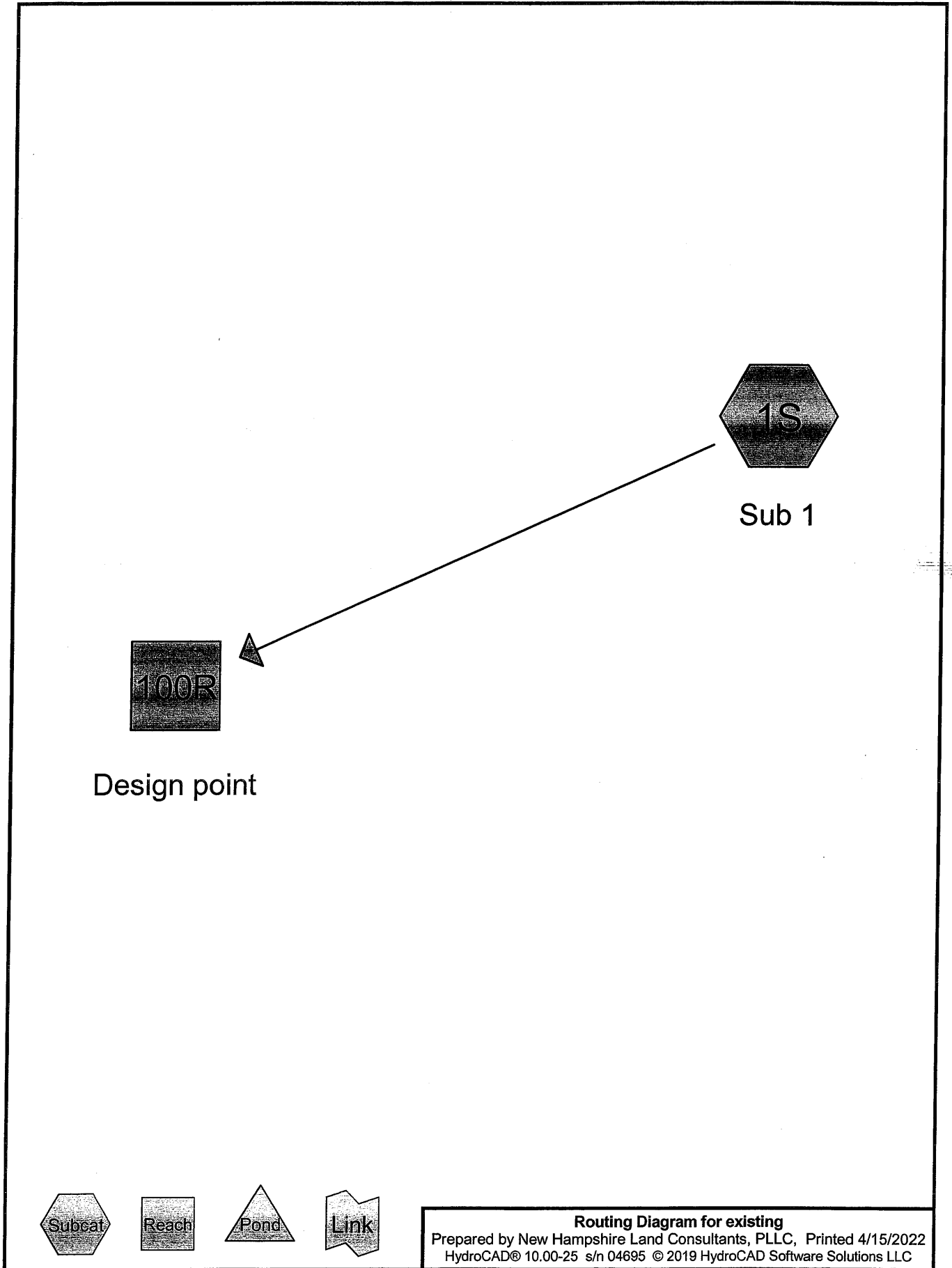
Date(s) aerial images were photographed: Aug 28, 2015—May 15, 2017

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
43B	Canton fine sandy loam, 0 to 8 percent slopes, very stony	4.8	26.1%
43C	Canton fine sandy loam, 8 to 15 percent slopes, very stony	5.6	30.6%
547B	Walpole very fine sandy loam, 3 to 8 percent slopes, very stony	7.9	43.3%
Totals for Area of Interest		18.3	100.0%

25-YEAR PRE-DEVELOPMENT



Routing Diagram for existing
Prepared by New Hampshire Land Consultants, PLLC, Printed 4/15/2022
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existing

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Page 2

Area Listing (all nodes)

Area (acres)	CN	Description (subcatchment-numbers)
0.049	98	Gravel access (1S)
0.788	55	Woods, Good, HSG B (1S)
0.836	57	TOTAL AREA

existing

Type II 24-hr 25 YR - 24 HR Rainfall=5.86"

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Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 1S: Sub 1

Runoff Area=36,433 sf 5.80% Impervious Runoff Depth>1.42"
Flow Length=266' Tc=13.6 min CN=57 Runoff=1.67 cfs 0.099 af

Reach 100R: Design point

Inflow=1.67 cfs 0.099 af
Outflow=1.67 cfs 0.099 af

Total Runoff Area = 0.836 ac Runoff Volume = 0.099 af Average Runoff Depth = 1.42"
94.20% Pervious = 0.788 ac 5.80% Impervious = 0.049 ac

existing

Type II 24-hr 25 YR - 24 HR Rainfall=5.86"

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Summary for Subcatchment 1S: Sub 1

Runoff = 1.67 cfs @ 12.07 hrs, Volume= 0.099 af, Depth> 1.42"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 25 YR - 24 HR Rainfall=5.86"

Area (sf)	CN	Description
* 2,113	98	Gravel access
34,320	55	Woods, Good, HSG B
36,433	57	Weighted Average
34,320		94.20% Pervious Area
2,113		5.80% Impervious Area

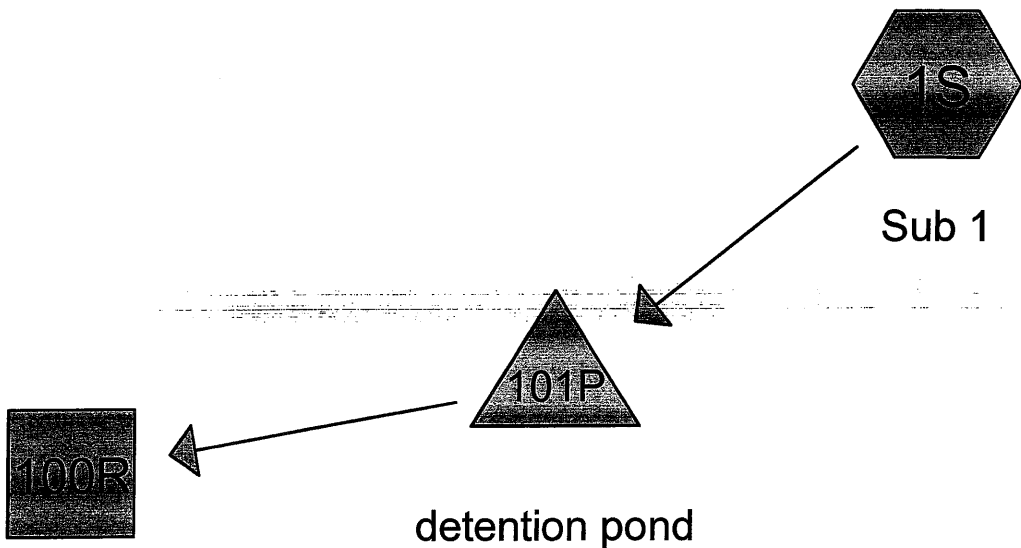
Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.7	50	0.0300	0.08		Sheet Flow, 1 Woods: Light underbrush n= 0.400 P2= 3.06"
0.4	22	0.0300	0.87		Shallow Concentrated Flow, 2 Woodland Kv= 5.0 fps
0.1	16	0.0300	2.79		Shallow Concentrated Flow, 3 Unpaved Kv= 16.1 fps
2.4	178	0.0620	1.24		Shallow Concentrated Flow, 4 Woodland Kv= 5.0 fps
13.6	266	Total			

Summary for Reach 100R: Design point

Inflow Area = 0.836 ac, 5.80% Impervious, Inflow Depth > 1.42" for 25 YR - 24 HR event
 Inflow = 1.67 cfs @ 12.07 hrs, Volume= 0.099 af
 Outflow = 1.67 cfs @ 12.07 hrs, Volume= 0.099 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

25-YEAR POST-DEVELOPMENT



Design point

detention pond



Routing Diagram for proposed
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proposed

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Area Listing (all nodes)

Area (acres)	CN	Description (subcatchment-numbers)
0.357	61	>75% Grass cover, Good, HSG B (1S)
0.095	98	Bldg, impervious (1S)
0.305	98	Gravel access/parking (1S)
0.079	55	Woods, Good, HSG B (1S)
0.836	78	TOTAL AREA

proposed

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Page 3

Pipe Listing (all nodes)

Line#	Node Number	In-Invert (feet)	Out-Invert (feet)	Length (feet)	Slope (ft/ft)	n	Diam/Width (inches)	Height (inches)	Inside-Fill (inches)
1	101P	258.00	257.50	30.0	0.0167	0.012	12.0	0.0	0.0

proposed

Type II 24-hr 25 YR - 24 HR Rainfall=5.86"

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Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 1S: Sub 1

Runoff Area=36,433 sf 47.80% Impervious Runoff Depth>3.19"
Flow Length=310' Tc=15.5 min CN=78 Runoff=3.64 cfs 0.223 af

Reach 100R: Design point

Inflow=1.52 cfs 0.219 af
Outflow=1.52 cfs 0.219 af

Pond 101P: detention pond

Peak Elev=259.68' Storage=2,743 cf Inflow=3.64 cfs 0.223 af
Primary=1.52 cfs 0.219 af Secondary=0.00 cfs 0.000 af Outflow=1.52 cfs 0.219 af

Total Runoff Area = 0.836 ac Runoff Volume = 0.223 af Average Runoff Depth = 3.19"
52.20% Pervious = 0.437 ac 47.80% Impervious = 0.400 ac

proposed

Type II 24-hr 25 YR - 24 HR Rainfall=5.86"

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Summary for Subcatchment 1S: Sub 1

Runoff = 3.64 cfs @ 12.08 hrs, Volume= 0.223 af, Depth> 3.19"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 25 YR - 24 HR Rainfall=5.86"

	Area (sf)	CN	Description
*	13,291	98	Gravel access/parking
	3,463	55	Woods, Good, HSG B
*	4,125	98	Bldg, impervious
	15,554	61	>75% Grass cover, Good, HSG B
	36,433	78	Weighted Average
	19,017		52.20% Pervious Area
	17,416		47.80% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
12.4	60	0.0300	0.08		Sheet Flow, 1
					Woods: Light underbrush n= 0.400 P2= 3.06"
3.1	250	0.0360	1.33		Shallow Concentrated Flow, 2
					Short Grass Pasture Kv= 7.0 fps
15.5	310	Total			

Summary for Reach 100R: Design point

Inflow Area = 0.836 ac, 47.80% Impervious, Inflow Depth > 3.14" for 25 YR - 24 HR event
 Inflow = 1.52 cfs @ 12.28 hrs, Volume= 0.219 af
 Outflow = 1.52 cfs @ 12.28 hrs, Volume= 0.219 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Summary for Pond 101P: detention pond

Inflow Area = 0.836 ac, 47.80% Impervious, Inflow Depth > 3.19" for 25 YR - 24 HR event
 Inflow = 3.64 cfs @ 12.08 hrs, Volume= 0.223 af
 Outflow = 1.52 cfs @ 12.28 hrs, Volume= 0.219 af, Atten= 58%, Lag= 12.2 min
 Primary = 1.52 cfs @ 12.28 hrs, Volume= 0.219 af
 Secondary = 0.00 cfs @ 5.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs / 3
 Peak Elev= 259.68' @ 12.28 hrs Surf.Area= 2,127 sf Storage= 2,743 cf
 Flood Elev= 262.50' Surf.Area= 3,885 sf Storage= 9,655 cf

Plug-Flow detention time= 27.4 min calculated for 0.219 af (98% of inflow)
 Center-of-Mass det. time= 20.8 min (806.0 - 785.2)

proposed

Type II 24-hr 25 YR - 24 HR Rainfall=5.86"

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Volume	Invert	Avail.Storage	Storage Description
#1	258.00'	9,655 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
258.00	1,140	0	0
260.00	2,315	3,455	3,455
262.00	3,885	6,200	9,655

Device	Routing	Invert	Outlet Devices
#1	Primary	258.00'	12.0" Round Culvert L= 30.0' Ke= 0.500 Inlet / Outlet Invert= 258.00' / 257.50' S= 0.0167 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf
#2	Device 1	258.00'	7.0" Vert. Orifice/Grate C= 0.600
#3	Device 1	261.00'	2.0" x 2.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#4	Secondary	262.00'	10.0' long x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=1.51 cfs @ 12.28 hrs HW=259.68' (Free Discharge)

- ←1=Culvert (Passes 1.51 cfs of 4.10 cfs potential flow)
- ↑2=Orifice/Grate (Orifice Controls 1.51 cfs @ 5.66 fps)
- ↑3=Orifice/Grate (Controls 0.00 cfs)

Secondary OutFlow Max=0.00 cfs @ 5.00 hrs HW=258.00' (Free Discharge)

- ←4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

DRAINAGE AREA PLANS

NEW HAMPSHIRE
Professional Engineer
Design of Environmental
Systems
Scott R. Frankel
No. 1338
State of New Hampshire

REVISIONS	
NO.	DATE

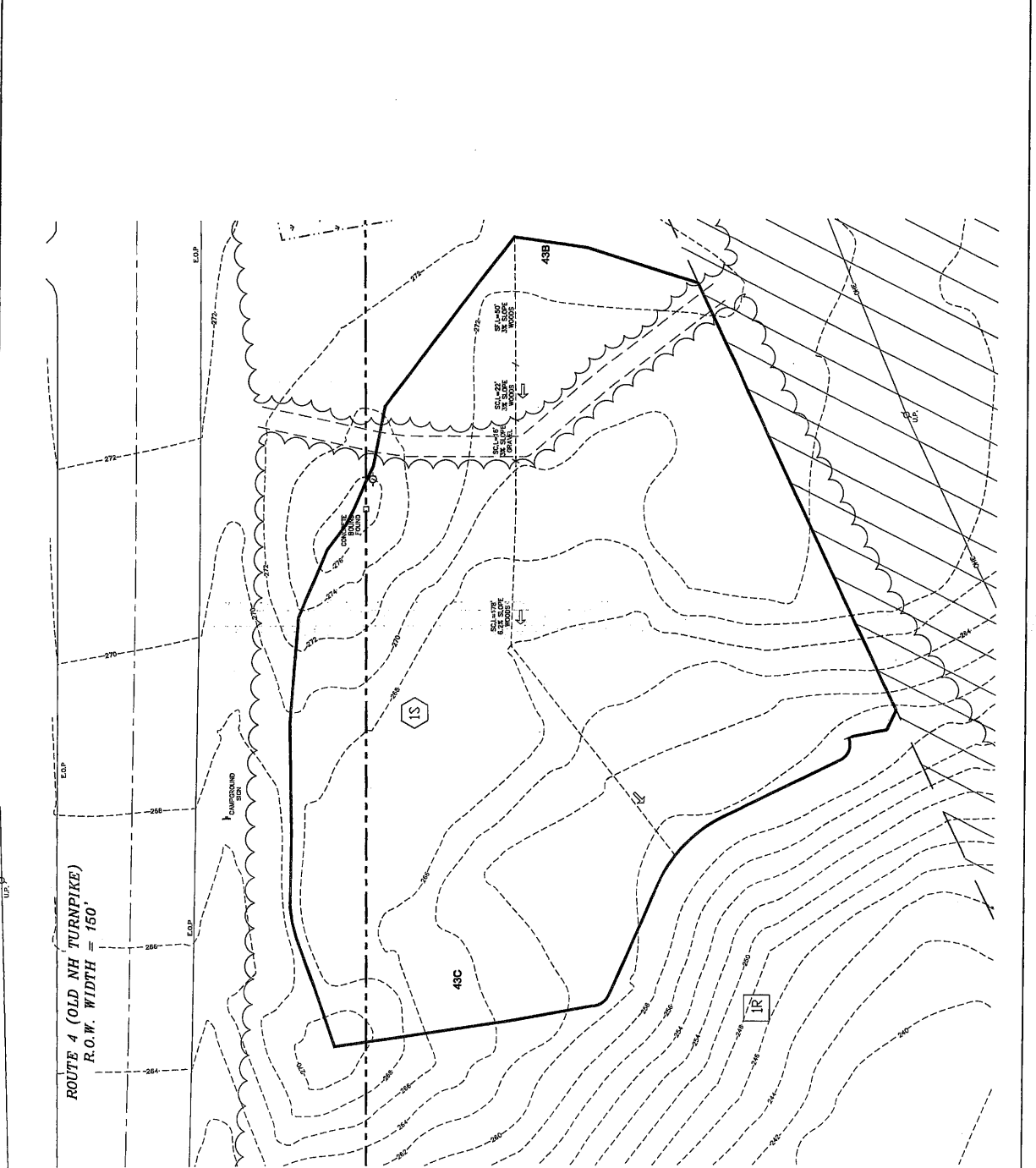
GRAPHIC SCALE
1" = 100'
SCALE: 1"=200'

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

6455 FIRST NH BUSINESS CENTER, NORTHWOOD, NH 03291 TEL: 603-942-9220 WEBSITE: NH.LANDCONSULTANTS.COM

EXISTING WATERSHED PLAN
TAX MAP 8 LOT 16
APPLICANT / OWNER:
BRETT AND AMY TRACZYK
ADVENTURE CAMPER RENTALS, LLC
30 MILL ROAD, NORTHWOOD NH 03261
PROJECT LOCATION
TAX MAP 9 LOT 18, ROUTE 4, NOTTINGHAM NH

JOB NO: 692.00
PLANNING CD:
DATE: APRIL 19, 2022
EWP
SHT. 1 of 2



****THIS DRAWING IS FOR DRAINAGE PURPOSES ONLY**

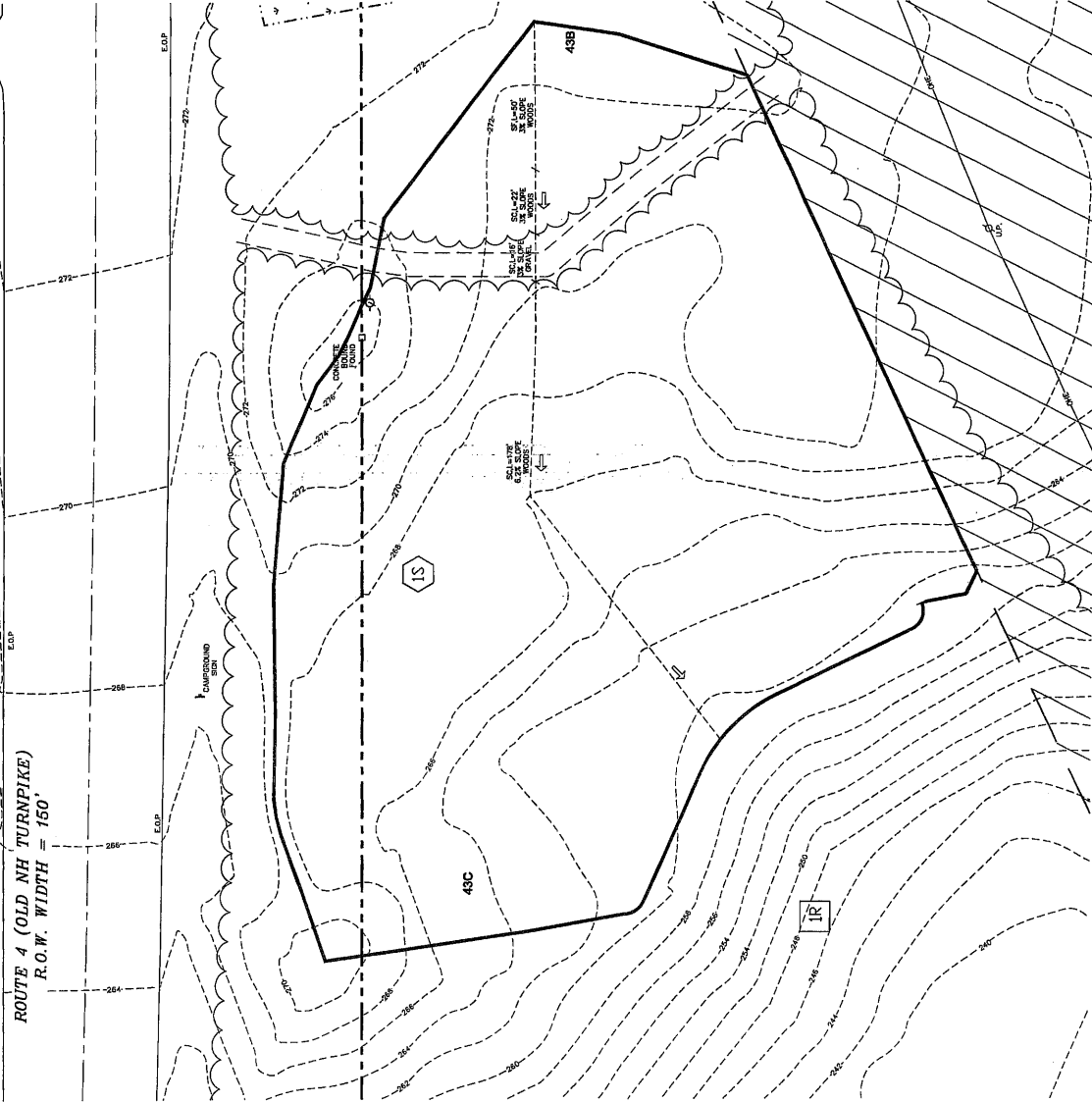
WATERSHED KEY

SUBCATCHMENT

POND

REACH

ROUTE 4 (OLD NH TURNPIKE)
R.O.W. WIDTH = 150



NEW HAMPSHIRE
Professional Engineer
No. 134
State of New Hampshire
for Environmental

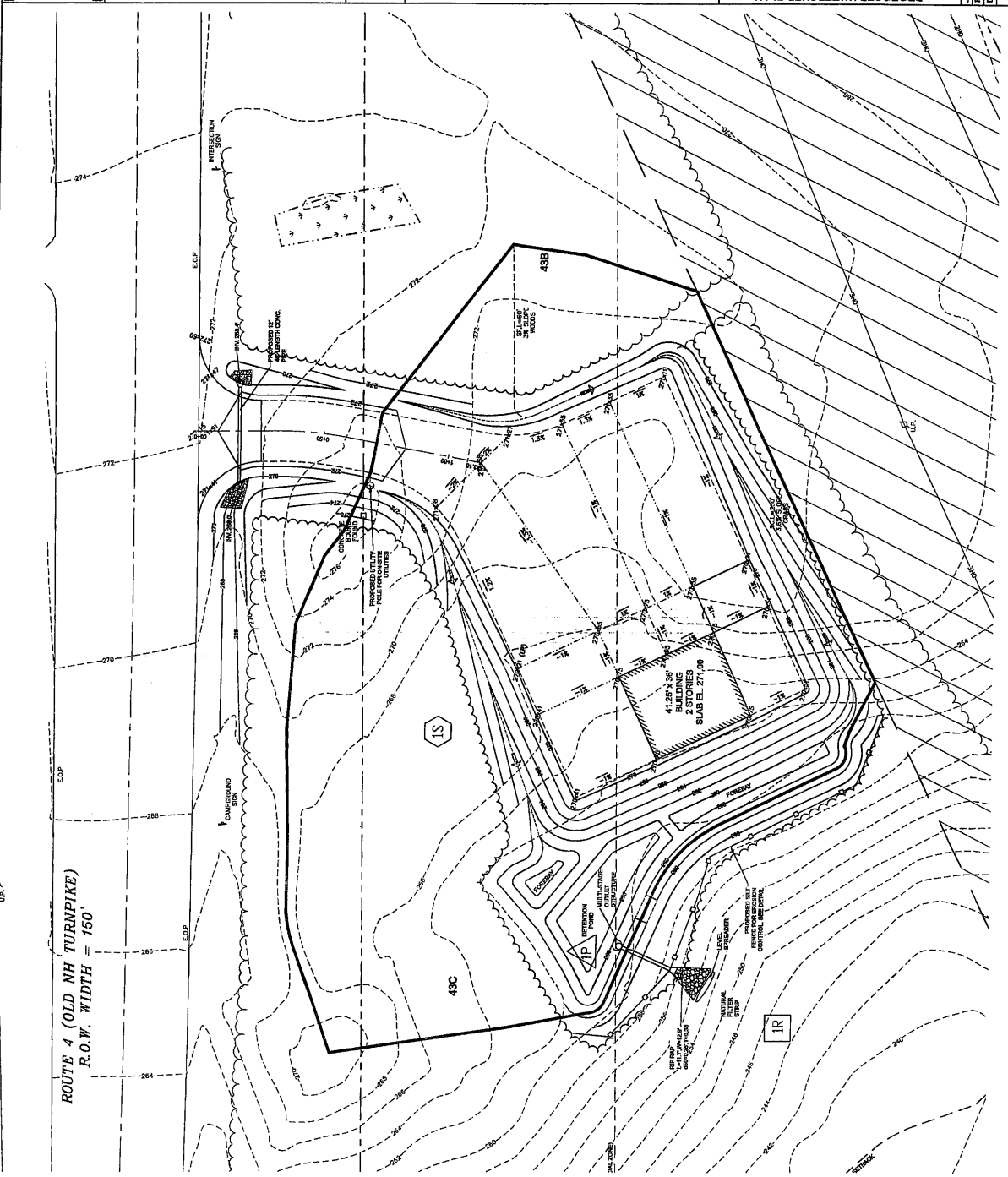
NO.	DATE	DESCRIPTION	BY

GRAPHIC SCALE
1" = 50'
SCALE: 1"=50'

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1660 FIRST NH TURNPIKE, NORTHWOOD, NH 03291 PH: 603-442-9220 WEBSITE: NH.LANDCONSULTANTS.COM

PROPOSED WATERSHED PLAN
TAX MAP 6 LOT 18
APPLICANT / OWNER:
ADVENTURE CAMPER RENTALS, LLC
BRETT AND AMY TRACZYK
30 MILL ROAD, NORTHWOOD NH 03261
PROJECT LOCATION
TAX MAP 6 LOT 18, ROUTE 4, NOTTINGHAM NH

JOB NO.: 6992.00
ROCKINGHAM CO.
DATE: APRIL 18, 2022
PWP
SHT. 2 of 2



****THIS DRAWING IS FOR DRAINAGE PURPOSES ONLY**

WATERSHED KEY

- ⬡ SUBCATCHMENT
- △ POND
- ⬢ REACH

RIPRAP CALCULATIONS

RIP RAP CALCULATIONS

ADVENTURE CAMPER RENTALS, LLC

Brett & Amy Tkaczyk
Nottingham, NH

RJB Engineering

2 Glendale Road
Concord, NH 03301

18-Apr-22

The Rip Rap was sized for a 25 year storm.

TAILWATER < HALF THE D₀

$$L_a = (1.8 \times Q) / D_{03/2} + (7 \times D_0)$$

$$W = L_a + D_0 \text{ or defined channel width}$$

$$d_{50} = (0.02 \times Q^{4/3}) / (TW \times D_0)$$

Culvert or Catch Basin (Sta. No.)	Tailwater (Feet) TW	Discharge (C.F.S.) Q	Diameter of Pipe D ₀	Length of Rip Rap L _a (feet)	Width of Rip Rap W (feet)	d50-Median Stone Rip Rap d50 (feet)	Actual Rip Rap (Feet)	Thickness of Apron (Feet)
15" ADS	0.25	2.28	1.25	11.7	12.9	0.19	0.25	0.38

Table 7-24 -- Recommended Rip Rap Gradation Ranges

d50 Size =	0.25	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		