

Minuteman Park Report
Vernal Pool Survey
Spring, 1992

submitted by: Joe Martinez

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Section notes
Slide notes
Slides
Map locations
Field notes

Note: Section #'s refer to plots on Tract Maps (see attached).

SECTION NOTES

Section 01-105
Date 4/13
freshwater clams, planaria, water beetle,
caddisfly larvae PHOTOGRAPH

Date 6/27
no standing water

Section 01-149
Date 6/27
standing water present

Section 01-110
Date 4/28
freshwater clams, caddis fly larva PHOTOGRAPH

Date 6/27
water depth ca. one half to one foot

Section 01-130
Date 4/13
fairy shrimp, snails

Date 6/27
one dragon fly larva, heard Rana clamitans calling

Section 02-136/142
Date 4/13
two ranid tadpoles, caddis fly larva, diving
beetles, ramshorn snails, heard Hyla crucifer
calling

Date 4/19
smaller second pond SE of main pond - no aquatic
life
water-logged field south of both fields - no
aquatic life

Date 6/27
substantial water in large pond, small pond, and
field

Section 02-133
Date 5/19
caddisfly larva, aquatic larva PHOTOGRAPH

Date 6/27
water ca. 1 - 6 inches deep, diving beetles and
snails present

Section 03-103
Date 4/13
one ambystomid egg mass at extreme west end of
pond, heard *Rana sylvatica* calling

Date 4/19
ambystomid egg mass still present, diving beetle
PHOTOGRAPH

Date 4/28
ambystomid egg mass is gone, one ranid frog
(*catesbeiana* or *clamitans*) seen

Date 6/27
substantial water, heard *Rana clamitans*, saw
several hatchling catfish, netted aquatic walking
stick, diving beetle, two ranid (*catesbeiana* or
clamitans) tadpoles.

Section 03-104
Date 4/19
freshwater clams, diving beetles PHOTOGRAPH

Date 6/27
standing water present

Section 03-120 (or 03-155)
Date 4/28
freshwater clams, diving beetle

Date 6/27
no standing water

Section 03-120 A
Date 4/28
caddisfly larva, one tadpole PHOTOGRAPH

Section 04-119
Date 4/19
aquatic life in pool of stream PHOTOGRAPH
two *Plethodon cinereus*

Date 6/27
stream dried up

Section 04-119S

Date 4/19
three *Rana sylvatica* egg masses PHOTOGRAPH

Date 6/27
water depth 1 - 3 inches, one tadpole with
hindlimbs

Section 04-119A
Date 4/19
red mite, tubifex worm, whirligig beetle
PHOTOGRAPH

Date 6/27
no standing water

Section 04-119B
Date 4/19
eleven *Rana sylvatica* egg masses and larva.
PHOTOGRAPH

Date 6/27
no standing water

Section 04-119C
Date 4/19
newly hatched amphibian larva

Date 6/27
no standing water
one *Plethodon cinereus* under rotting log

Section 04-south of Maplewood farm
Date 4/19
pond #1 - freshwater clams, diving beetles, *Hyla*
crucifer heard and seen PHOTOGRAPH
pond #2 - eleven *Rana sylvatica* egg masses
PHOTOGRAPH

Section 04-121
Date 6/27
saw one female *Rana catesbeiana* (snout-vent > 4
inches, no dorso-lateral ridges, tympanum same
size as eye), heard *Rana clamitans* calling

Note: The slides referred to below were sent to Minute Man National Historical Park, Headquarters.

Slides

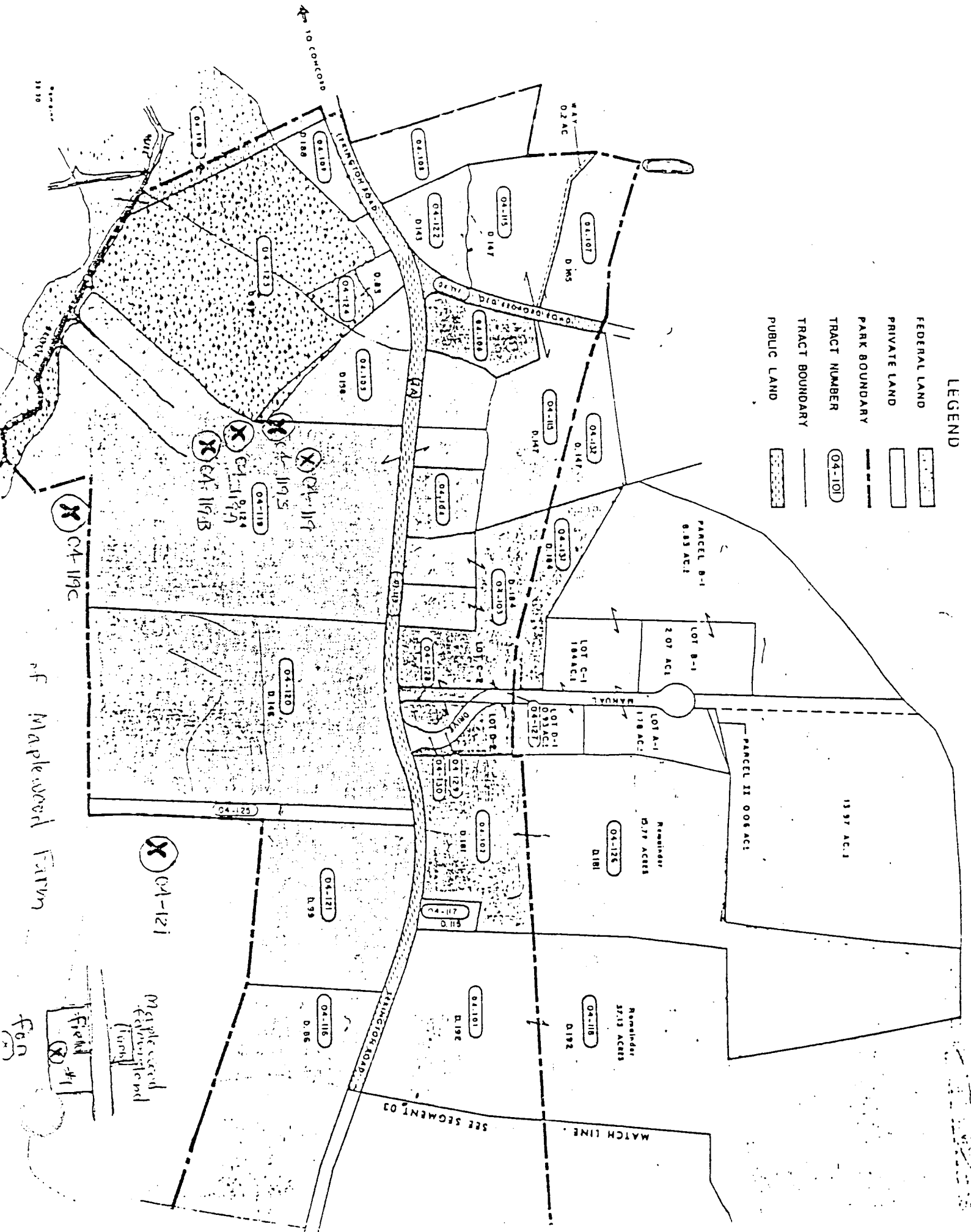
With the exception of 01-105, animals were photographed in a petri dish placed on a drawn grid. A letter and number system was used on the grid (as is used on maps) to locate the specimens within the photograph. An inch was depicted (with one eighth increments) in two places on the grid for size estimation.

#	section	grid	animal
1.	01-105	upper left upper right lower left	freshwater clam caddisfly larva planaria, snail
2.	01-107	C/D - 2 D/E/F - 4	freshwater clam dragonfly nymph
3.	01-110	E - 3 E/F - 1 H - 4 J/K - 4/5	freshwater clams isopod snail caddisfly larva
4.	01-130	E - 4 F/G - 2/3 G - 1 K - 5	snail fairy shrimp fairy shrimp fairy shrimp
5.	02-103	B - 4 F - 2	isopod freshwater clam
6.	02-133	B - 3 C - 3 C - 4/5 C/D - 1/2 D - 2 D - 4 E/F - 3 E/F - 1/2	fly larva fly larva snail caddisfly larva snail isopod caddisfly larva mayfly larva
7.	02- 136/142	A - 3 A - 4 D - 4 D - 5 G - 3 G - 4 J - 5	water boatman aquatic beetle caddisfly larva snail aquatic beetle snail caddisfly larva
8.	03-103	M - 2 L/M - 3/4	aquatic beetle isopod
9.	03-120	B/C/D - 2 E - 4	tubifex worm fly larva

	F - 2	freshwater clam	
	F - 4	fly larva	
	F - 5	freshwater clam	
10.	03-120A	B - 4	tadpole
		C/D/E - 1	caddisfly larva
		G/H - 2	isopod
		D - 3/4	fly larva
		C/D/E - 4	caddisfly larva
		J - 5	snail
11.	04-119		wood frog eggs
12.	04-119A	C/D - 4	bloodworm
		H - 1	red mite
		I - 1	aquatic beetle
13.	04-119B		wood frog egg mass
14.	04-119C	E/F - 4	wood frog tadpole
		H/I - 2	" " "
		J - 4	" " "
15.	04-opposite Maplewood Farm		aquatic beetle

LEGEND

- FEDERAL LAND 
- PRIVATE LAND 
- PARK BOUNDARY 
- TRACT NUMBER 
- TRACT BOUNDARY 
- PUBLIC LAND 



03-102

SEE SEGMENT 04

WATCH LINE

100

[illegible]

S E N	Approved by the Secretary
S E N	August 1, 1963
S E N	
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C M L	O R D E R S C A T C O
M L	

of the Interior
AUTHORIZED SEPTEMBER 20 1965

100

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DEPARTMENT
NATIONAL

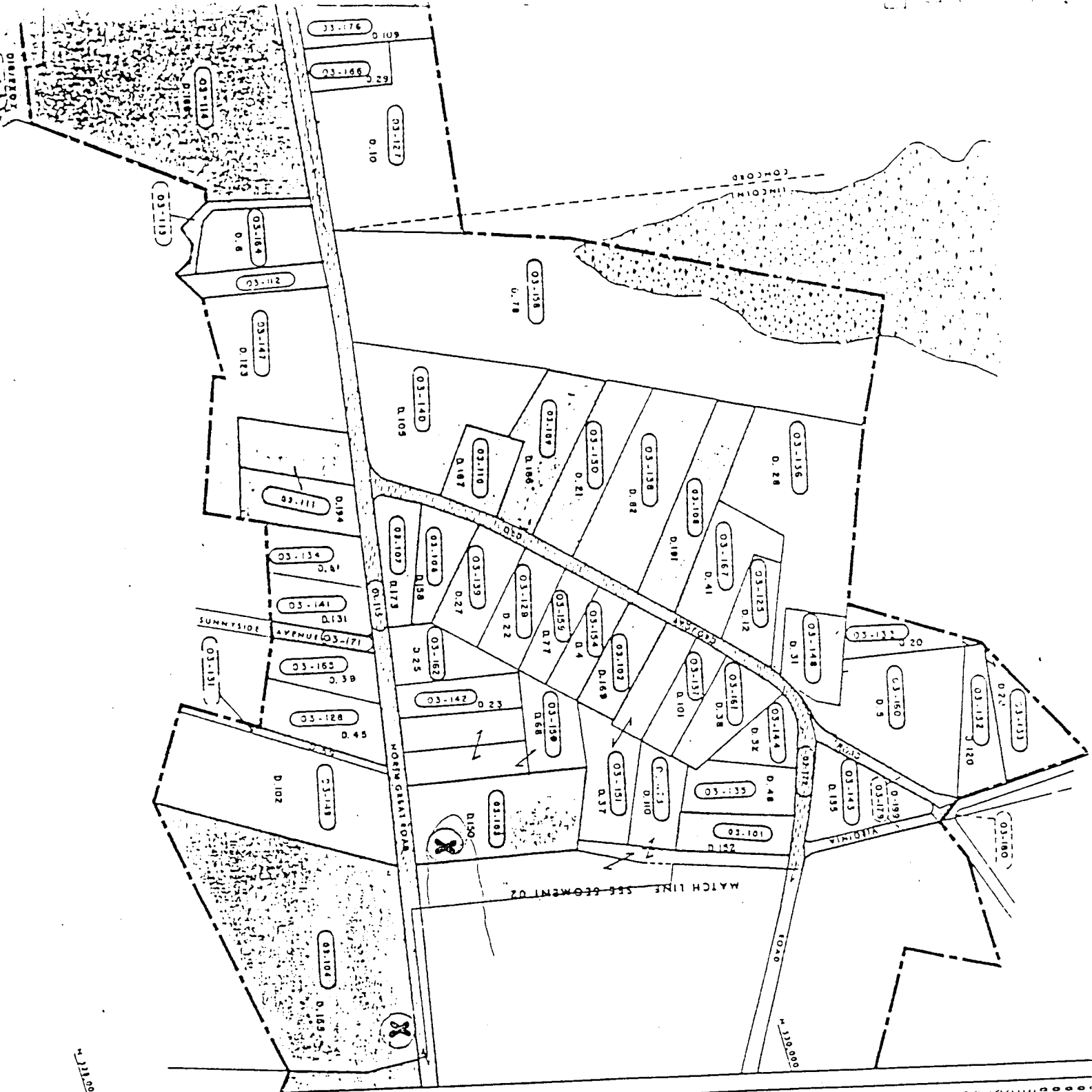
NOTE:

NOTE:
The boundary line as shown is the same as depicted on Boundary Map 2004B sheets 1 and 2 and by the Secretary of the Interior.

Remainder:
10.75 AC

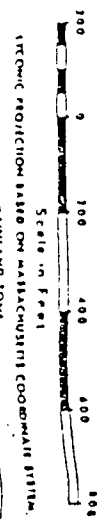
CONFIDENTIAL





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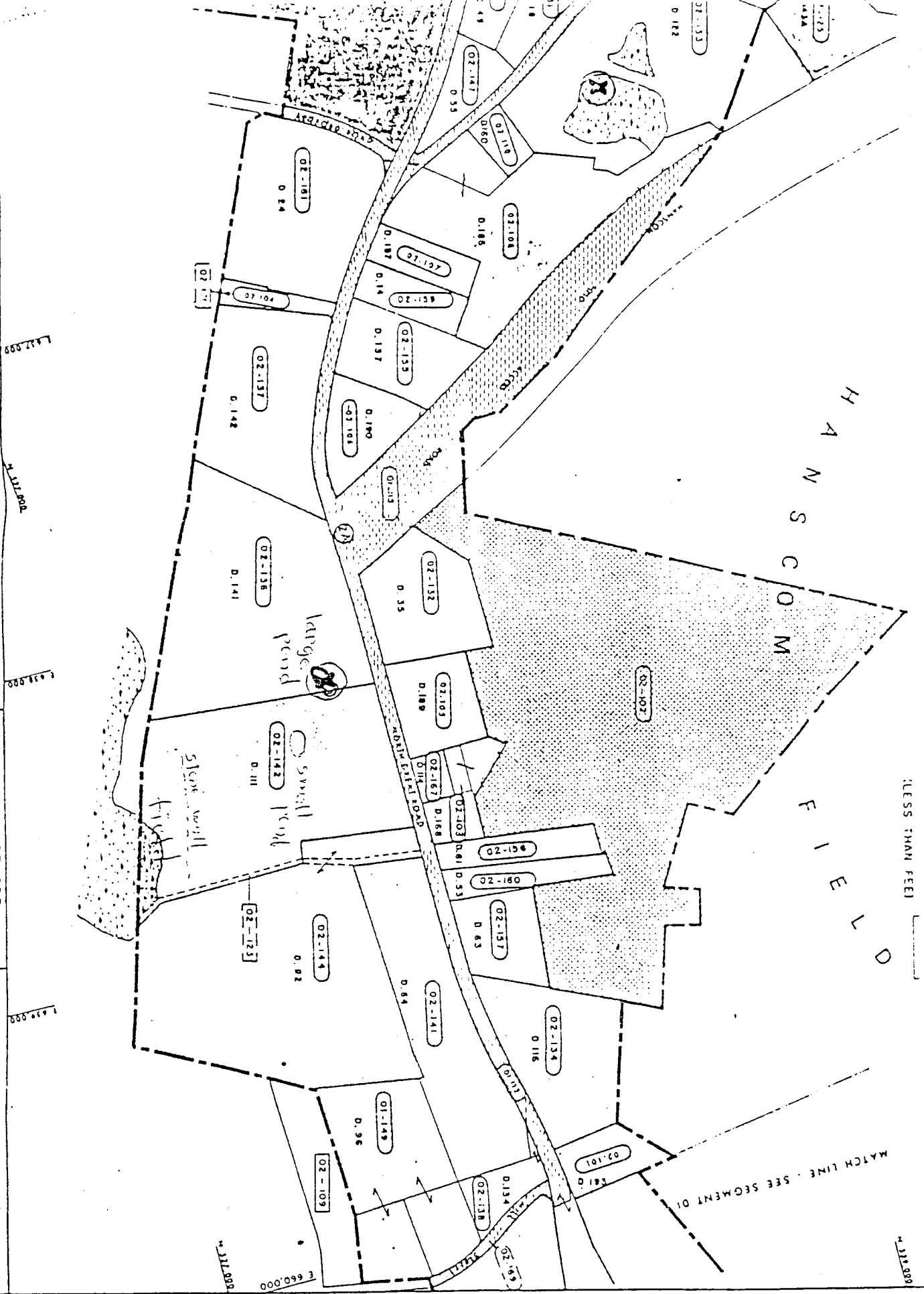
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JANUARY 14, 1970
FEDERAL MAP SERVICES
WASHINGTON, D.C.



UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
OFFICE OF LAND ACQUISITION AND
WATER RESOURCES

LAND STATUS MAP

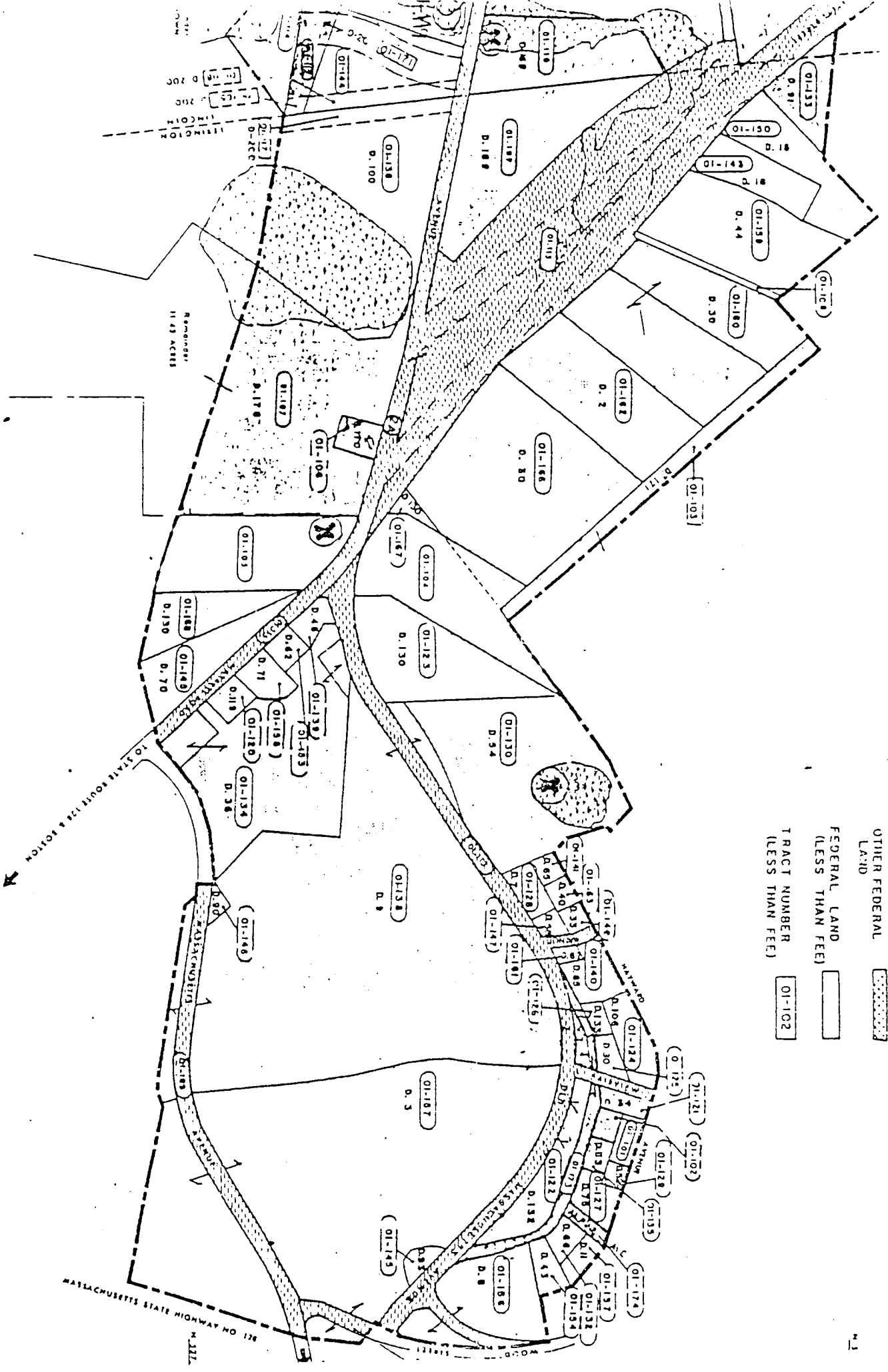
MINUTE MAN
NATIONAL HISTORICAL
PARK
MIDDLESEX COUNTY
MASSACHUSETTS



02-133	02-134	02-135	02-136	02-137	02-138	02-139	02-140	02-141	02-142	02-143	02-144	02-145	02-146	02-147	02-148	02-149	02-150	02-151	02-152	02-153	02-154	02-155	02-156	02-157	02-158	02-159	02-160	02-161	02-162	02-163	02-164	02-165	02-166	02-167	02-168	02-169	02-170	02-171	02-172	02-173	02-174	02-175	02-176
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OTHER FEDERAL LAND
FEDERAL LAND
(LESS THAN FEE)
TRACT NUMBER
(LESS THAN FEE)

01-102



FD-302 (REV. 10-6-79)
SEPTEMBER 21, 1979
FEDERAL BUREAU OF INVESTIGATION
U.S. DEPARTMENT OF JUSTICE
OFFICE OF THE ATTORNEY GENERAL
WASHINGTON, D.C. 20535
UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
OFFICE OF LAND ACQUISITION AND
WATER RESOURCES
MINUTE MAN
NATIONAL HISTORICAL PARK
CRITICAL

Field notes

4/13 began south section of Lexington Road, starting from east end at Merriam Corner. Checked 04-119, 04-120, 04-121, 04-116, 03-120, 03-147, 03-103, 02-122, 02-166, 02-161, 02-136, 02-142, 01-105 as possible sites.

03-103 One ambystomid egg mass (fist-sized, ca. 50 eggs) at extreme west end of pond. Heard several wood frogs calling.

02-136/02-142 There is a large pond that lies across both sections. Caught two ranid tadpoles (#1 ca. one inch with no limbs, #2 ca. two inches with hindlimbs just emerging). Numerous caddis fly larvae, diving beetles, ramshorn snails. Heard spring peepers calling.

01-105 Netted caddisfly larvae, water beetle, planaria, freshwater clam. PHOTOGRAPH

4/19 checked sections 02-136/142, 02-161, 03-104, 03-103, 03-147

02-136/142 Smaller, second pond southeast of large pond had nothing. Water-logged field just south of both ponds likewise had nothing.

03-104 Found freshwater clams, diving beetle. PHOTOGRAPH.

03-103 Single ambystomid egg mass still present. Found diving beetle. PHOTOGRAPH.

04-119 Found stuff in pool portion of drainage creek. PHOTOGRAPH.

04-119S Three wood frog egg masses in pool at the intersection of an east/west stone wall and Palumbo's field. PHOTOGRAPH.

04-119A Red mite, tubifex, whirligig beetle. PHOTOGRAPH.

04-119B Eleven wood frog egg masses and newly hatched larvae. PHOTOGRAPH.

04-119C Newly hatched amphibian larvae. Could not find egg masses.

04-119 Two *Plethodon cinereus* (under a rock) ca. 20 yards from Lexington Road.

02-opposite Maplewood Farm. Pool in field south of Lexington Road and north of stone wall. *Hyla crucifer* heard and seen. Freshwater clams and diving beetles. PHOTOGRAPH.

02-opposite Maplewood Farm. Pool south of stone wall in a stand of white pines. Eleven *Rana sylvatica* egg masses. PHOTOGRAPH. *Hyla crucifer* heard calling from the south.

4/28 Checked sections 01-110, 01-151, 03-103, 03-158.

01-110 freshwater clams, caddis fly larvae. PHOTOGRAPH.

03-103 Single ambystomid egg mass is gone. No sign of remnant mass or larvae. One frog briefly seen (either *Rana catesbeiana* or *clamitans*). Waded through north part of the pond. Poor visibility - no amphibian egg masses seen.

03-120 (or 03-155) 5 foot X 3 foot pool in large wet drainage area. Freshwater clams, diving beetle.

03-120A Drainage creek follows field/forest boundary. Caddis fly larvae, one tadpole (ca. .25 inch, gray color). PHOTOGRAPH.

5/19 Checked section 02-133 off Bedford Road. Caddisfly larvae, insect larvae. PHOTOGRAPH.

6/27 Checked sections 01-130, 01-110, 02-133, 03-103, 03-120, 04-119, 04-121, 03-104, 02-136/142, 01-105, 01-149 for water levels.

01-103 Pond is about half dry, but still plenty of water. Netted one dragon fly nymph. Heard *Rana clamitans* calling.

01-110 Numerous interconnected pools present. Water depth ca. one half to one foot.

02-133 Little standing water, ca. 1 - 6 inches deep. Netted diving beetles and snails.

03-103 Plenty of water. Heard *Rana clamitans*. Saw several catfish fingerlings. Netted one walking stick, two tadpoles (ca. .5 inches), diving beetle.

03-120 No standing water.

04-119 Creek dried up. Stone wall pond nearly dried up (water depth several inches - netted one tadpole with well-developed hindlimbs. Ponds A, B, C dried up. One red-phase *Plethodon cinereus* found in C depression under a rotting log.

04-121 New pond found east of dirt road that runs perpendicular to Lexington Road. Ca. 100 yards from Lexington Road. Heard *Rana clamitans* calling. Saw one *Rana catesbeiana* female (no dorsolateral ridges, tympanum same size as eye).