



IN REPLY REFER TO:

United States Department of the Interior

NATIONAL PARK SERVICE
AIR QUALITY DIVISION
P. O. BOX 25287
DENVER, CO 80225

RECEIVED
ACADIA NATIONAL PARK

OCT 21 '85

27 September 85

ROUTE	INT
SUPT.	
C. OPS	
AD	
C. NAT	
C. POR	
C. RES	
C. MTD	
SEC	
USE	

Kyle Jones
Acadia National Park

Dear Kyle:

As you may know, there were some white pine trees in the original pine plots that didn't get done by Paula Sanchini this summer because she couldn't find them. Following are the plot and tree tag numbers of the 19 trees:

<u>Plot No.</u>	<u>Tree No.</u>
2	37, 38, 39, 40
3	unable to locate (28), 29, 30
12	10/85 LKJ 169
18	110 - 120

Mayy Foley said I should send this info directly to you. Also enclosed are the plot directions from Treshow that may help relocate the trees.

Paula S. will evaluate the branches if you clip them ~~xx~~ and send them to her. For this reason, it is important to try to find them right away because if they really can't be found we have to put in 19 substitute trees.

The branches (5 per tree) can be sent to Paula, C/O Dave Haskell, Shenandoah National Park, Luray, VA. They must reach her before October 25.

Please call (FTS 776-8770, Comm. 303-236-8770) if any of this is unclear

Jim Bennett

cc: Foley

Site 4
151-165

Plot Locator Tree (Species, DBH, Characteristics): Sawl Bubble Pond. large pine N 40 yds up slope
between 2 small ferns. up towards stable place. Archival DBH 27.2 cm
N 80 p above rd 70' N W 0.00

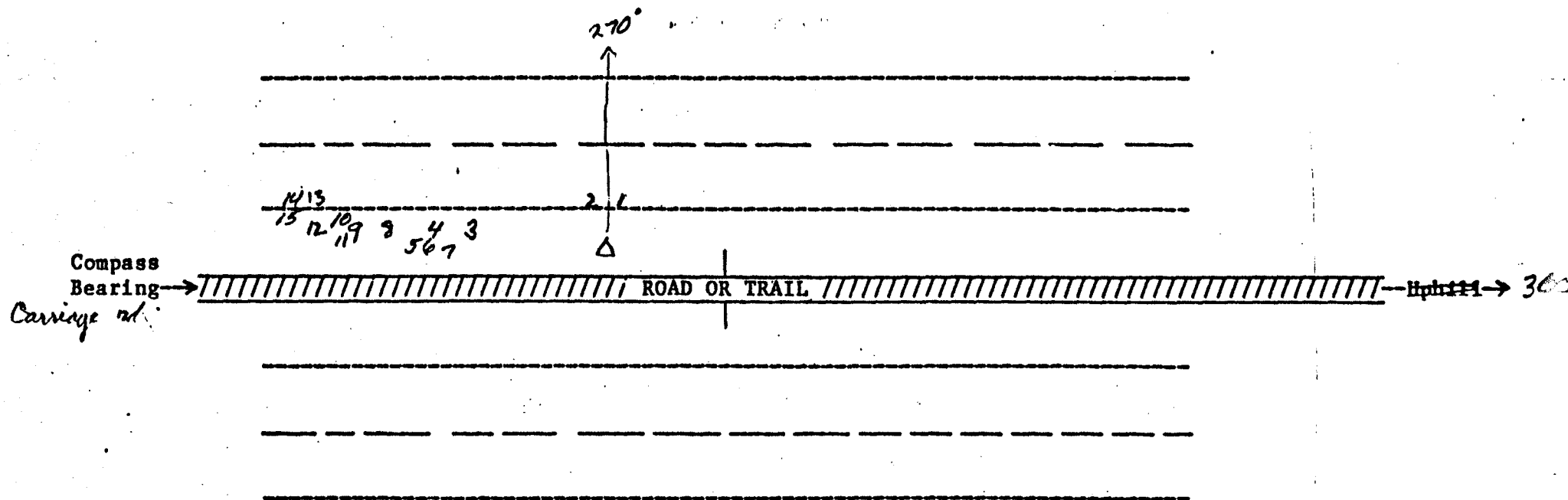
Site Characteristics: *Asplenites*, birch, maple, alder

Place Where Altimeter was Set: Main & Park. Side 340' dbh 27.2 cm

Compass Bearing at Starting Point: 270° from A

Investigators: MT MT

Comments: Really 2 transects here. Trees 1 & 2 just above pullout area as noted & tagged
Trees 3-15 above larger pullout by large pine.
1" 2" N ~ 80 p of 3-15
p = pines



PLOT 5 tagged
1-15

All compass bearings are magnetic only

Plot Locator Tree (Species, DBH, Characteristics): Red pine Δ DBH = 20.8. 15 paces up hill at 20°

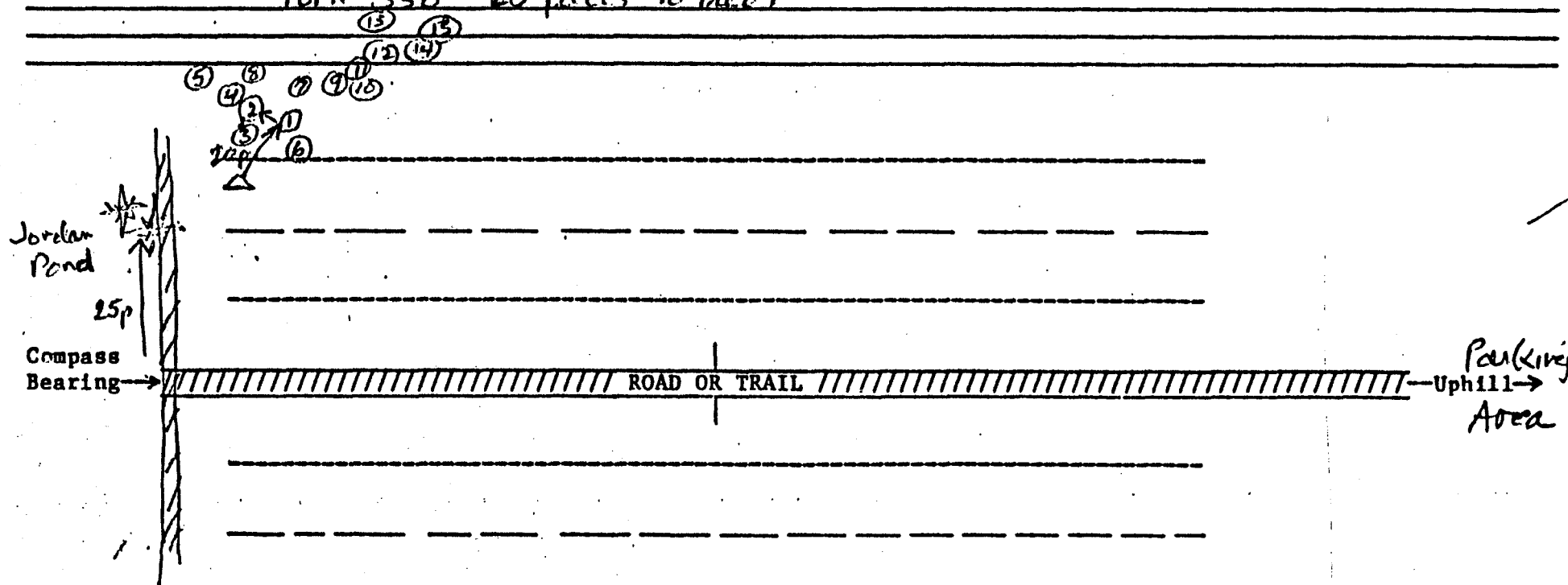
Site Characteristics: Red pine, spruce, fir, beech, Cornus, Viburnum
Steep uneven, boulders. Pocket of mixed pines in mostly hardwood stand.

Place Where Altimeter was Set:

Compass Bearing at Starting Point: 330° Δ

Investigators:

Comments: Lower Bubble Rock Parking lot. Take rock stairs to Jordan lake (0.2 mi)
2.5 paces NW on lake trail to 1st white pines
Turn 350° 20 paces to tree 1



SITE 6 tagged Euc stand for regrowth
T211-225

Plot Locator Tree (Species, DBH, Characteristics): Sok spruce above rd DBH 12.5

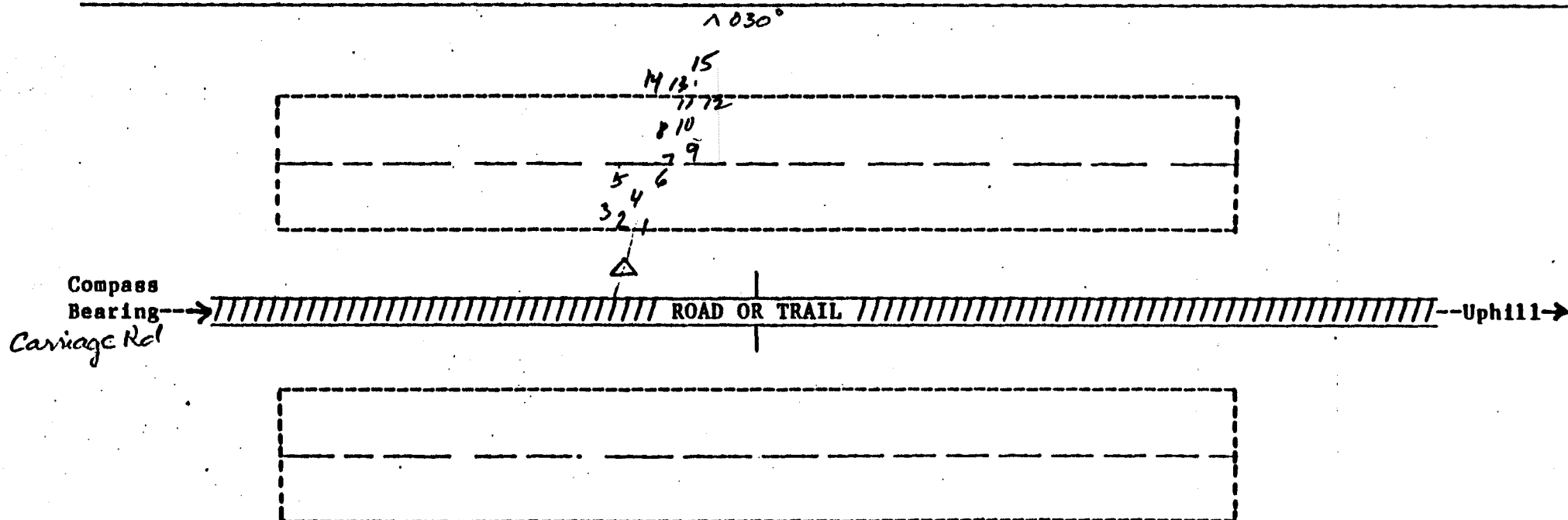
Site Characteristics: Grass pine stand, open, rock & Va

Place Where Altimeter was Set: Main st. BH

Compass Bearing at Starting Point: 030°

Investigators: MT-MT

Comments: Began at NE Harbor turnoff Carriage Lane W of Jordan House, on road
steep bridge. Site on hillpin when rd turns back N. Large pine on left
distinctive. Plot 6 on N.
From Δ proceed at 030° thru gap in rocks.



SITE 7 tagged
T226-240

Plot Locator Tree (Species, DBH, Characteristics): Wh. Pine center of rock area 30 pin Grand
DBH 10.5

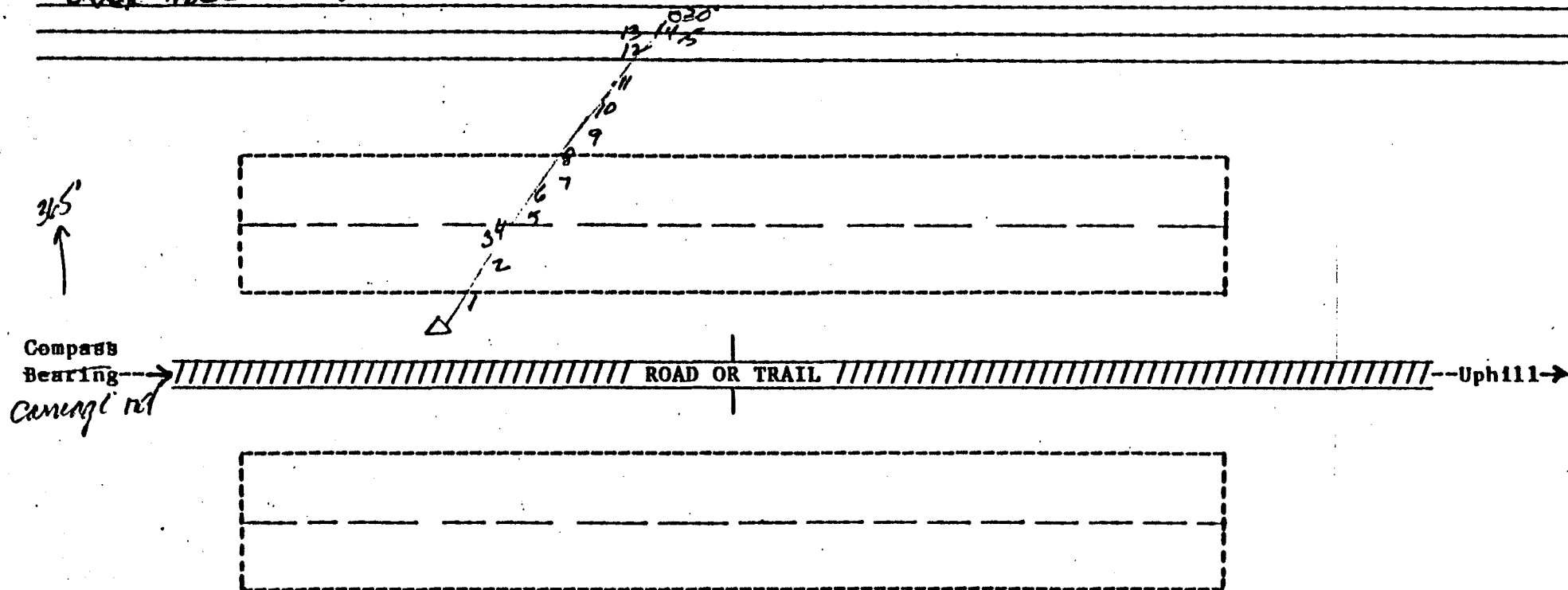
Site Characteristics: Rock low vs. old pine + young <107 Thuja + red maple
Rt. Striped maple

Place Where Altimeter was Set:

Compass Bearing at Starting Point: 030°

Investigators:

Comments: Turn S on Go ~ 0.2 mi Intersection west of Site 6 a Two large pines where road swings left (E) in
happier To begin with pine above rock wall on left Go 030° thru clearing
over rock



SITE 3
Tagged
Trees 236-272

neochloris concolor

Plot Locator Tree (Species, DBH, Characteristics): Δ Above rocks ~18 paces DBH 29.0 cm

Site Characteristics: Rock with moss (liver). Grass Aster umb. Va - low & high
Beech, Shi maple, birch

Place Where Altimeter was Set:

Compass Bearing at Starting Point: $N \Delta = 070^\circ$, toward tallest pine on horizon

Investigators: MT & Kyle Jones

Comments: 0.4 mi from turnout by plot 6 After steep gulch and where rocks begin on right
Road runs almost N-S here
Overall slope 30% but individual tree slope 10-15% throughout

* On tree along canopy rd at mi 5 of Site 3

360°

1070' 14
10 12 13

9

8

7

6

5

4

3

2

1

Carriage

rd

Compass
Bearing →

ROAD OR TRAIL

→ Uphill →

PLOT 9

T271-285

Plot Locator Tree (Species, DBH, Characteristics): DBH 16.0 cm

Site Characteristics: Rock, grass, Hickory Spruce in dense either side of ridge

Overall 8-10' in shade but some to 20

Pinus on near level ledges.

Place Where Altimeter was Set:

Compass Bearing at Starting Point: at Δ 180° down rock slab

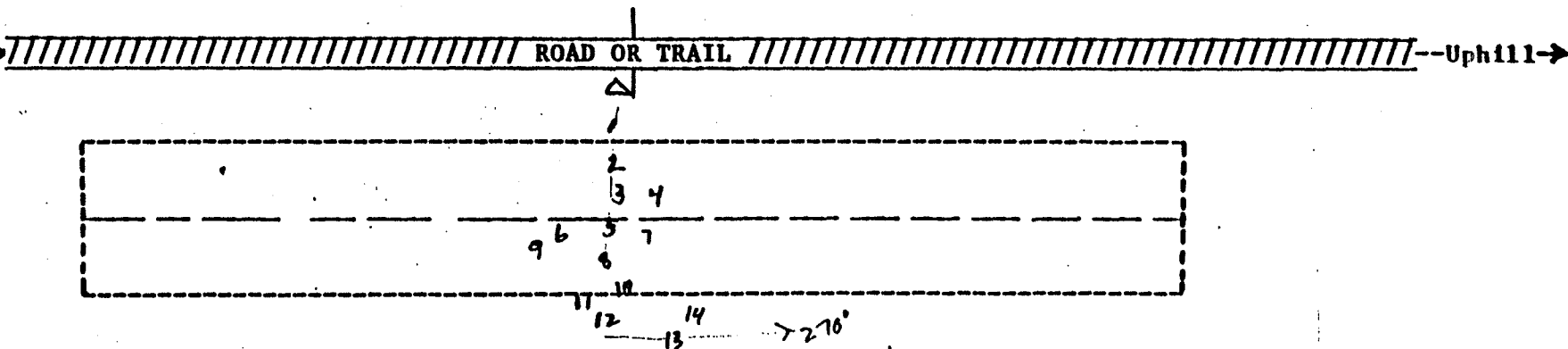
Investigators: MT-Kyle Jones

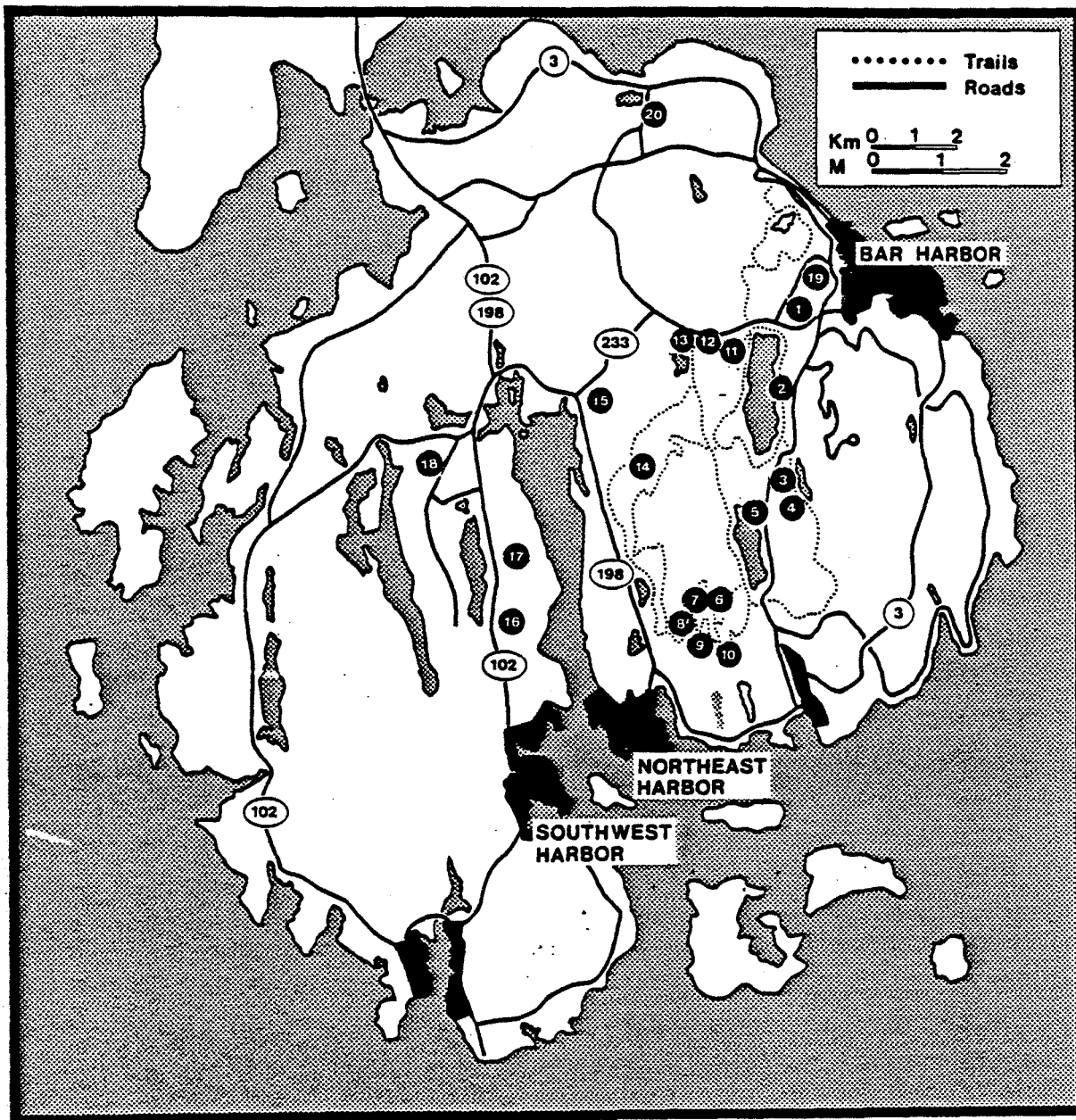
Comments: End of hairpin loop 3 intersection to rd from SE gatehouse on carriage rd. Clearing Tall spruce on rd. Δ 6 paces S from hairpin. Proceed from Δ 180° down rock slab

Carriage Rd.

Compass

Bearing →





Plot
T 40-60

Togget M. canopetual

Plot Locator Tree (Species, DBH, Characteristics): 30 paces to white pine Δ DBH 10.0 in.
center of clearing 140° from telephone pole

Site Characteristics: Open rock slabs, kvcl, spruce, larch, pines, birch

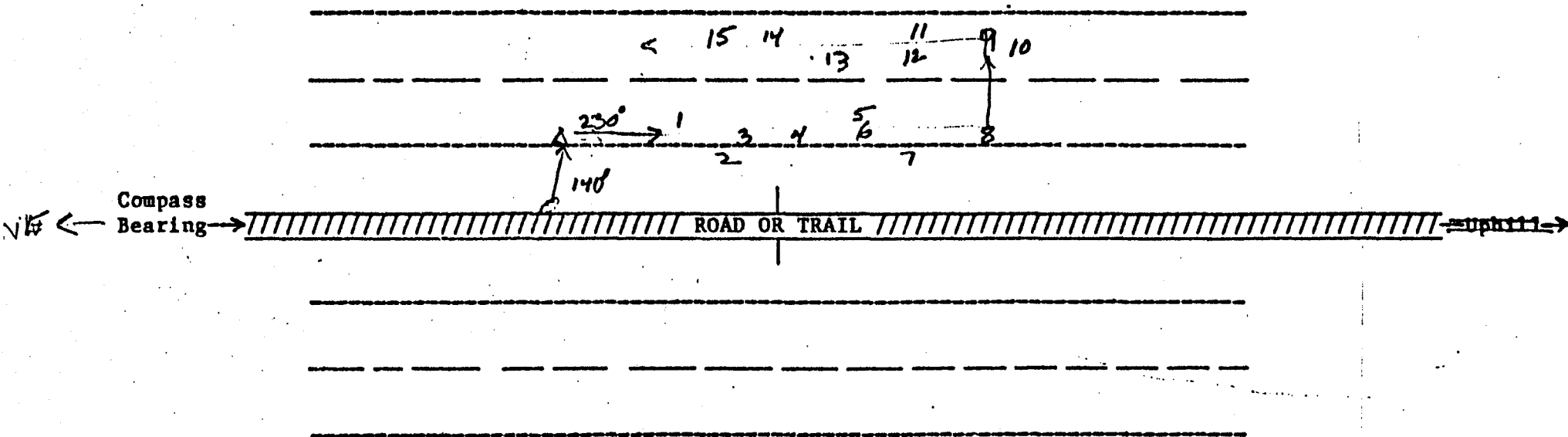
Place Where Altimeter was Set:

Compass Bearing at Starting Point:

Investigators:

Comments:

0.2 mi off Hwy 232, N of Eagle Lake
Small burnout, on wide spot, To line from Δ 230°



PLOT 2

T 31-115

Plot Locator Tree (Species, DBH, Characteristics): 50 paces at 300° to large white pine which
is the locator tree DBH $\Delta = 34.4$

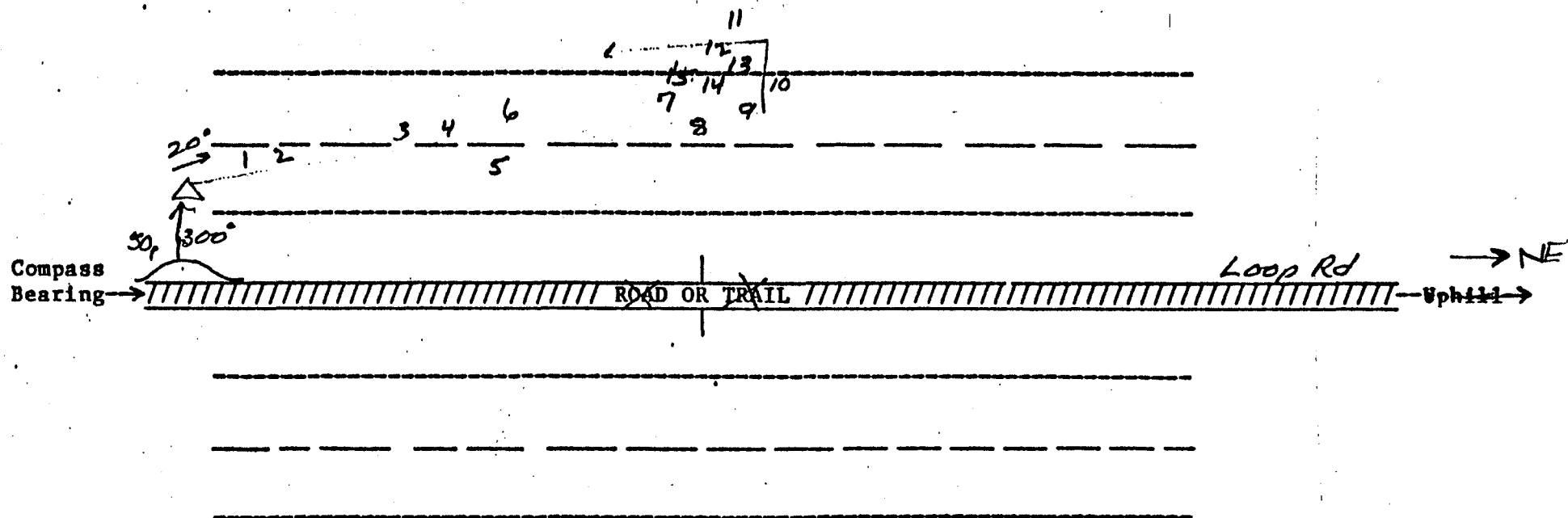
Site Characteristics: Hardwood: mostly 5th maple, birch, oak

Place Where Altimeter was Set:

Compass Bearing at Starting Point: 300° Transsect line from Δ is 20°

Investigators: M. T. Wilson

Comments: Start 2nd turnout, 0.5 mi, S. along Eagle Lake below Cadillac Mt Turnoff.
From center of pkq area, go 50 paces 300° down trail to large white pine Δ



1 L01 3
T/6-30

Plot Locator Tree (Species, DBH, Characteristics): Spruce DBH = 29.5

Site Characteristics: Spruce, Thuja; pine mostly at clearing,
large red pine in sparse forest

Place Where Altimeter was Set:

Compass Bearing at Starting Point: 340° paralleling highway

Investigators: M. Treshow, Nathan Tuelker

Comments: Park at Bubble Pond parking lot. Go to Carriage Path. Cross bridge to W
and continue 25 paces to where path swings N. Large white Pine here is indicator
tree. Continue ~ 50 paces to top of map. Large rock with spruce adj to N is
location. beyond rock pile.

Carriage
Path

340° Compass
Bearing

50 p → Δ 2 3

5

8

9

ROAD OR TRAIL

1

4

6

7

10

11

12

14

13

15

Uphill →

Bubble Pond
Pkq.

as 14.5 ft

PLOT 10
T286-300

Plot Locator Tree (Species, DBH, Characteristics): Red maple between white pine & spruce
DBH = 22.0 cm.

Site Characteristics: Var. lower & high, fern, shrub & red maple, spruce

Place Where Altimeter was Set:

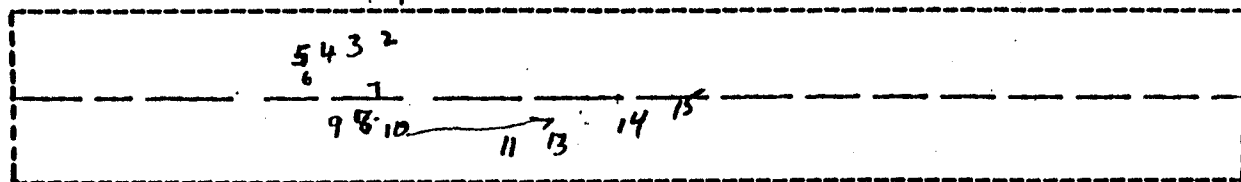
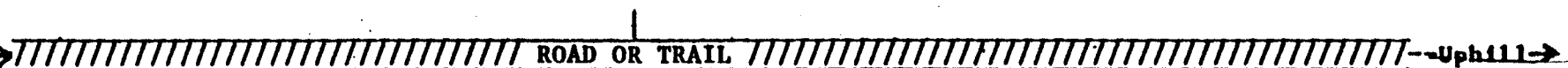
Compass Bearing at Starting Point: 170° - toward tallest Pine

Investigators:

Comments: 0.1 mi S of Seal Harbor - Jordan Pond - Aughithwaite junction (Near Mitchell Hill)



Compass
Bearing →



Tacc 196-210

General Ver age study
No com. potend.

Plot Locator Tree (Species, DBH, Characteristics): Large pine above rock bluff 20' above rd.
DBH 72 cm

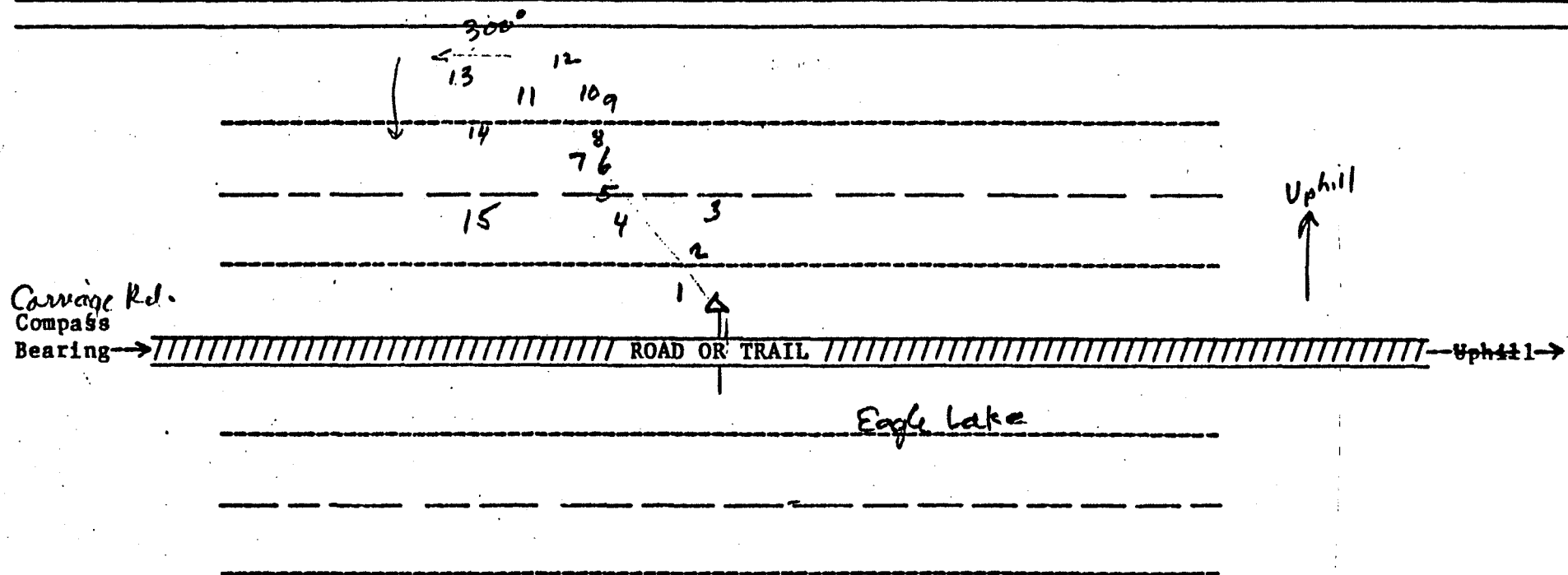
Site Characteristics:

Place Where Altimeter was Set:

Compass Bearing at Starting Point: Line runs 300' between 2 large pines

Investigators: MT & Jim Dunn

Comments: 0.5 mi S of junction to Aunt Betty Pond & along Eagle Lake
Large Pines above rock bluff "Path" goes up slope & on at
BDM = 72 cm



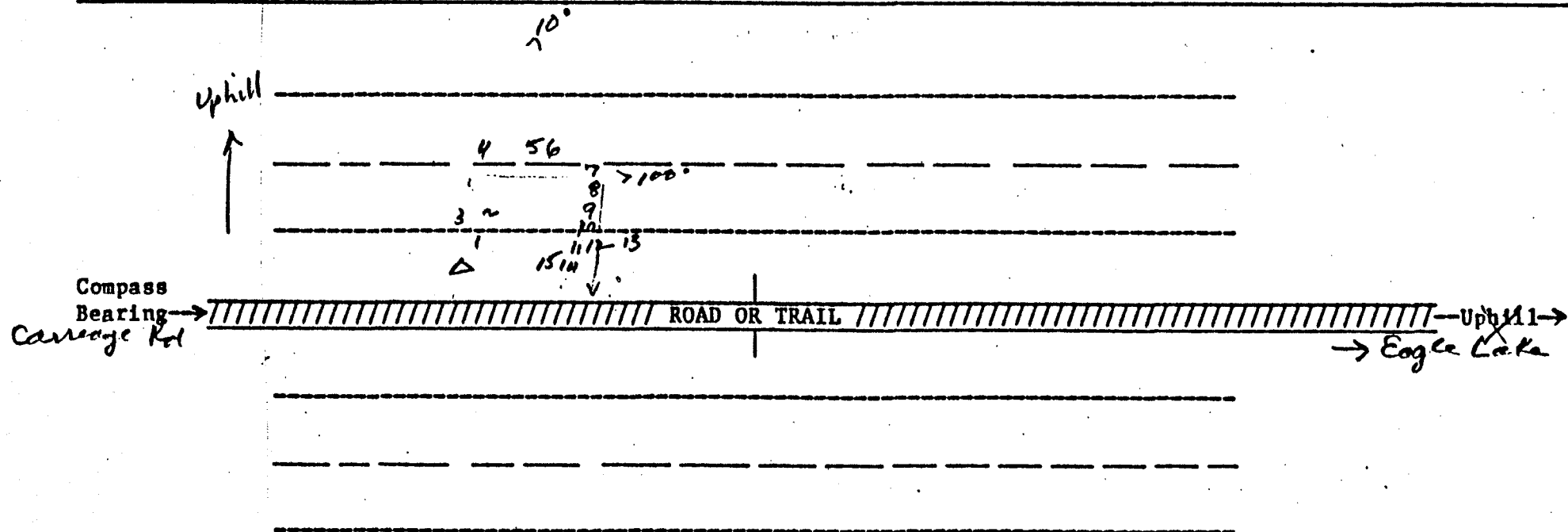
Law center

Transfer line 010" thru clear area -- moss - Va conc.

Place Where Altimeter was Set:

Investigators: MT - MT

Comments: Avoid Betty rd. from Eagle Lake just after it swings NW. Look for ^{permanent} spring on left side of slab on rd. On 7 mi W of Eagle Lake junction.



SITE 13 Tagged- Eyr my study

7/15/1985

Plot Locator Tree (Species, DBH, Characteristics): Shrubby red pine above rock.
dbh Δ 10.3 cm 0.2 mi above Aunt Betty Pond in road

Site Characteristics:

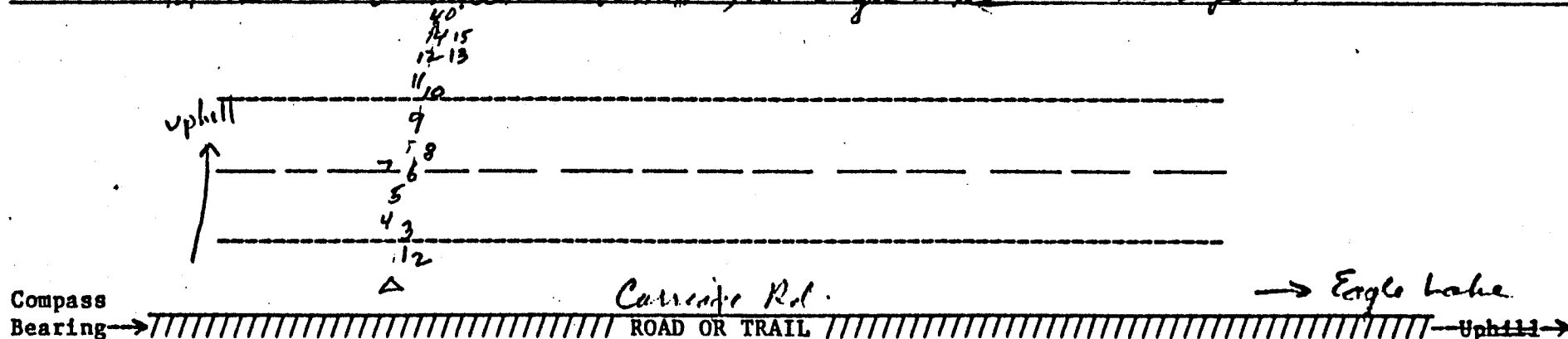
Place Where Altimeter was Set:

Compass Bearing at Starting Point: 040°

Investigators: MT

Comments: Go past white pine overhanging road. Rock out crop on rd (N)
Red oak + Sugar maple N of rd. 1 Part large Ash on left. Rd runs SE-TNW
Also, 0.7 mi toward Betty Pond

Plot 12-15 0.65 mi above turnout from Eagle Lake 0.7 mi beyond 12



1000' DBH

PLOT 14

Tagged

T240-255

Plot Locator Tree (Species, DBH, Characteristics): Spruce Δ , 25.4 cm S side of trail just past clearing

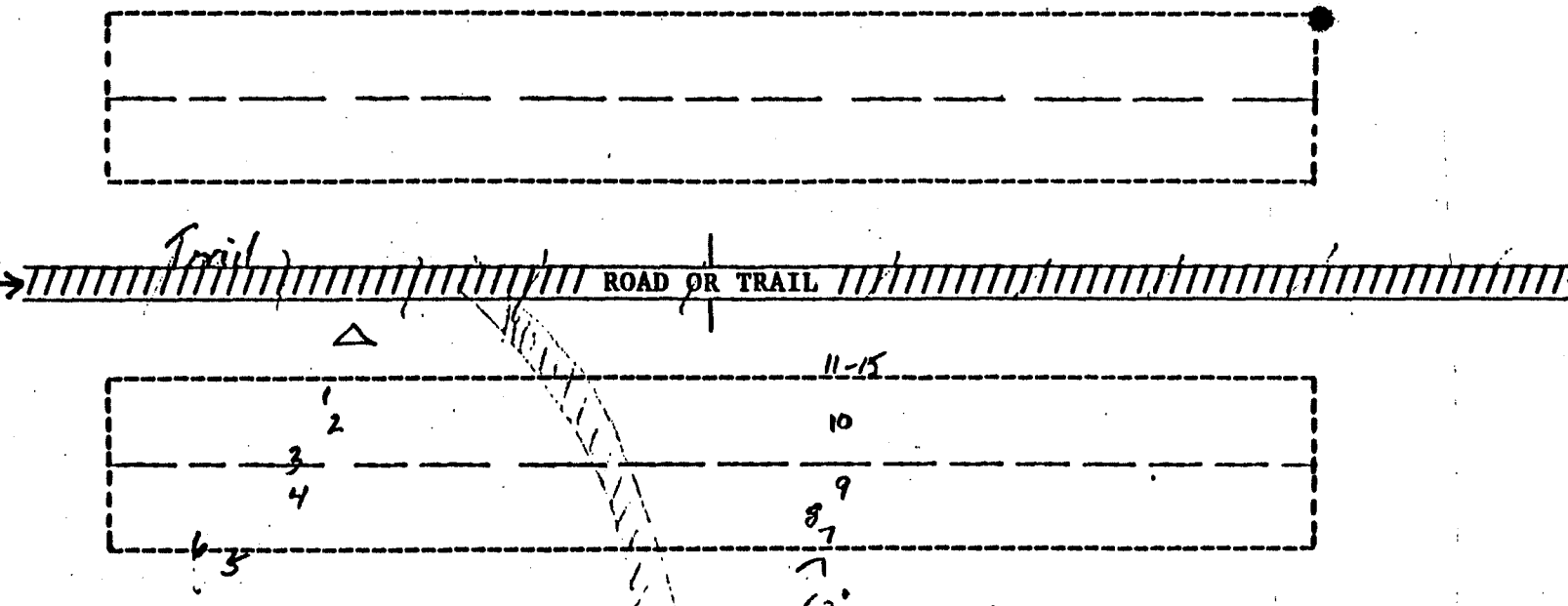
Site Characteristics: Open at stand, sparse low Va, Forest edge. Hwy spruce

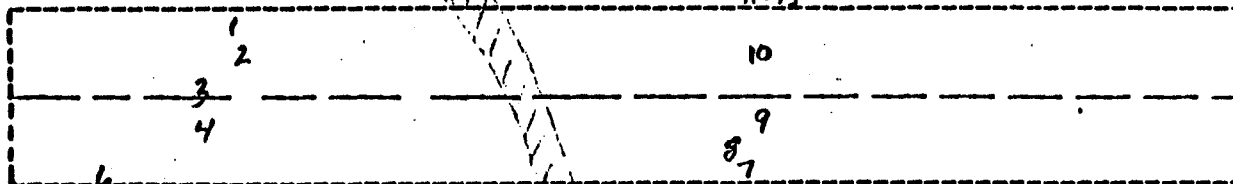
Place Where Altimeter was Set:

Compass Bearing at Starting Point: 220° transect line

Investigators:

Comments: Start at Giant slide trail crossing ~1 mi S of Betty Pond. Go ~100 yds up, just clearing to spruce (100' across to clearing; another 20' to road)

Compass Bearing →  ROAD OR TRAIL --Uphill-->



Plot 15 ^{marked}
T 91-105

Plot Locator Tree (Species, DBH, Characteristics): Entry off 233 Photo 13
 Δ 19.0

Site Characteristics: Fir - spruce stand. Both large, co-dominant + Va. x. trees

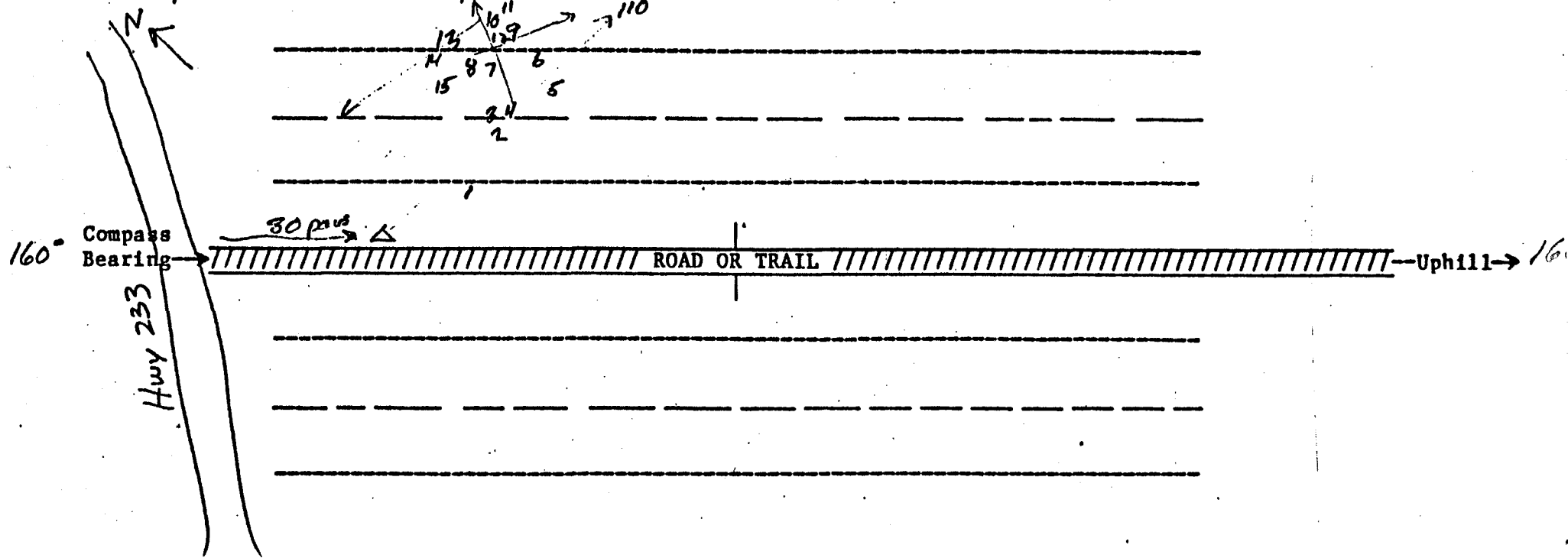
Place Where Altimeter was Set: BH 100'

Compass Bearing at Starting Point: 110° from Δ

Investigators:

Comments: Hwy 233 200 yds E of 198. Pull out space on S side of 233. A Head into woods just past then to 160°. Hit vague "path" and follow 80 paces to indicate tree at top of slope at edge of clearing with ferns
 Δ = Spruce dbh = 7.4" Transect line runs 110° to point visible from Δ

Trail of path by telephone pole just E of parking & three trees



Site 16 Target
12/1-135

Plot Locator Tree (Species, DBH, Characteristics): Δ 52.4 20 1/4 " " 18 1/2 slope

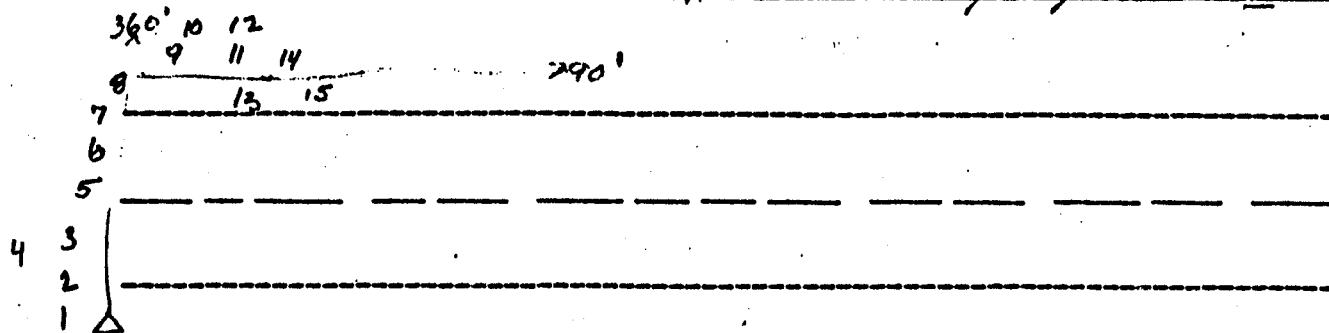
Site Characteristics: Edge of spr-fir forest + some Arbutus
Shrub layer Ash -- no O₂ present

Place Where Altimeter was Set: Main St. at Park

Compass Bearing at Starting Point: 360°

Investigators:

Comments: St Saviour parking area Go up-hill just short of 0.4 mi Acadia Mt junction.
Trail turns out at base of large (8') rock blocking Trail Turn left. Indicator tree Ya-don-al-what
pine old 20 1/4"
NOTE: If you reach sign saying 0.5 mi to Saviour parking lot. Reconsider Take Map of Acadia trail
N about .2 mi where it turns down to W. After about 100 yds you'll be in Site 16



Compass Bearing → ROAD OR TRAIL Uphill →

Plot 17 ¹ ₂ ₃ ₄ ₅ ₆ ₇ ₈ ₉ ₁₀ ₁₁ ₁₂ ₁₃ ₁₄ ₁₅
136-150

Plot Locator Tree (Species, DBH, Characteristics): Start at Acadia Mt trail up stone steps across
from parking turnover (paved) 90° Δ 17.3 cm

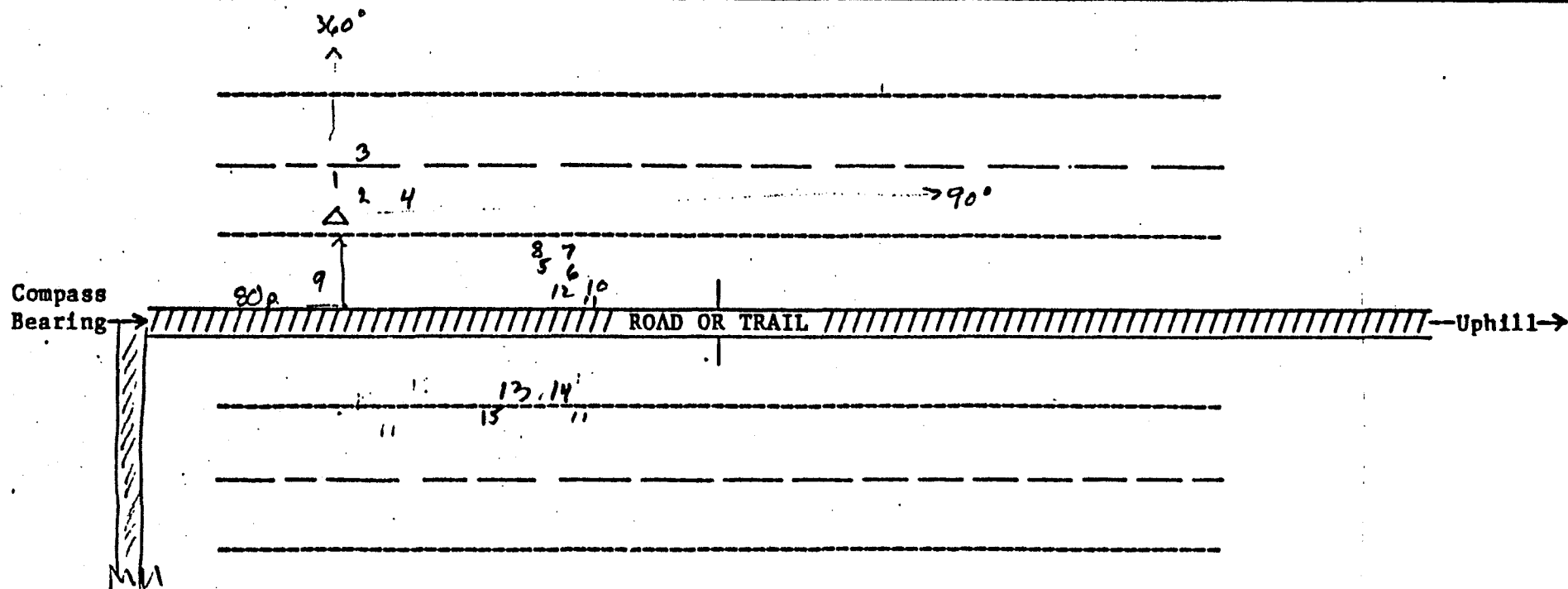
Site Characteristics: Spruce-pine stand with Vacc. in over area. Fern grass, herbs.
Scattered red pine, then pitch interspersed becoming near solid high elev.

Place Where Altimeter was Set: Bar Har bar - Main St at Brook

Compass Bearing at Starting Point: 90°

Investigators: MT F MT

Comments: Follow Acadia Mt trail to junction; turn S toward St. Sauvier about 80 yds to rock clearing.
Locator tree 360° is sole spruce at N of clearing dbh 17.3 cm Tr line 90° from Δ
Flagged E side due to trail proximity



Plot 18¹ ¹⁰⁰⁰
T106-120

Plot Locator Tree (Species, DBH, Characteristics): ^{23.4 cm} Red pine dbh 3 1/2" vigorous

Site Characteristics: level spruce thicket ^{high} Mus Va, fern, birch and maple

Place Where Altimeter was Set: Bear Harbor

Compass Bearing at Starting Point: 330° to Δ ; then at 250° transect line

Investigators: MT-MT

Comments: Turnoff at Birch Hill rd + 0.5 mi S. Park at 1/2 line on E rd. Park at rd going E. Head in to W (330°) at half dead spruce above rock E of main Rd at toward sample "wh pine. Continue 60 paces rd at 330° to Δ = Red pine (Goer into break in thicket)
Run transect from here 250° (go around - NW - of thicket)
0.5 mi S of turnoff 14 250° '5

Compass
Bearing →

Birch Hill Rd.

ROAD OR TRAIL

330°

360°

Up 111 → N

13 12 11 10 9 8 7 6 5 4 3 2 1

PLOT 19 Tagged
T6.75

Plot Locator Tree (Species, DBH, Characteristics): Center of clearing 30 paces at 180°
White pine DBH = 24.5

Site Characteristics: thin peat soil. Most mineral hardwood but young spruce, hemlock
white & red pine coming in. All under 20 ft high

Place Where Altimeter was Set:

Compass Bearing at Starting Point:

Investigators:

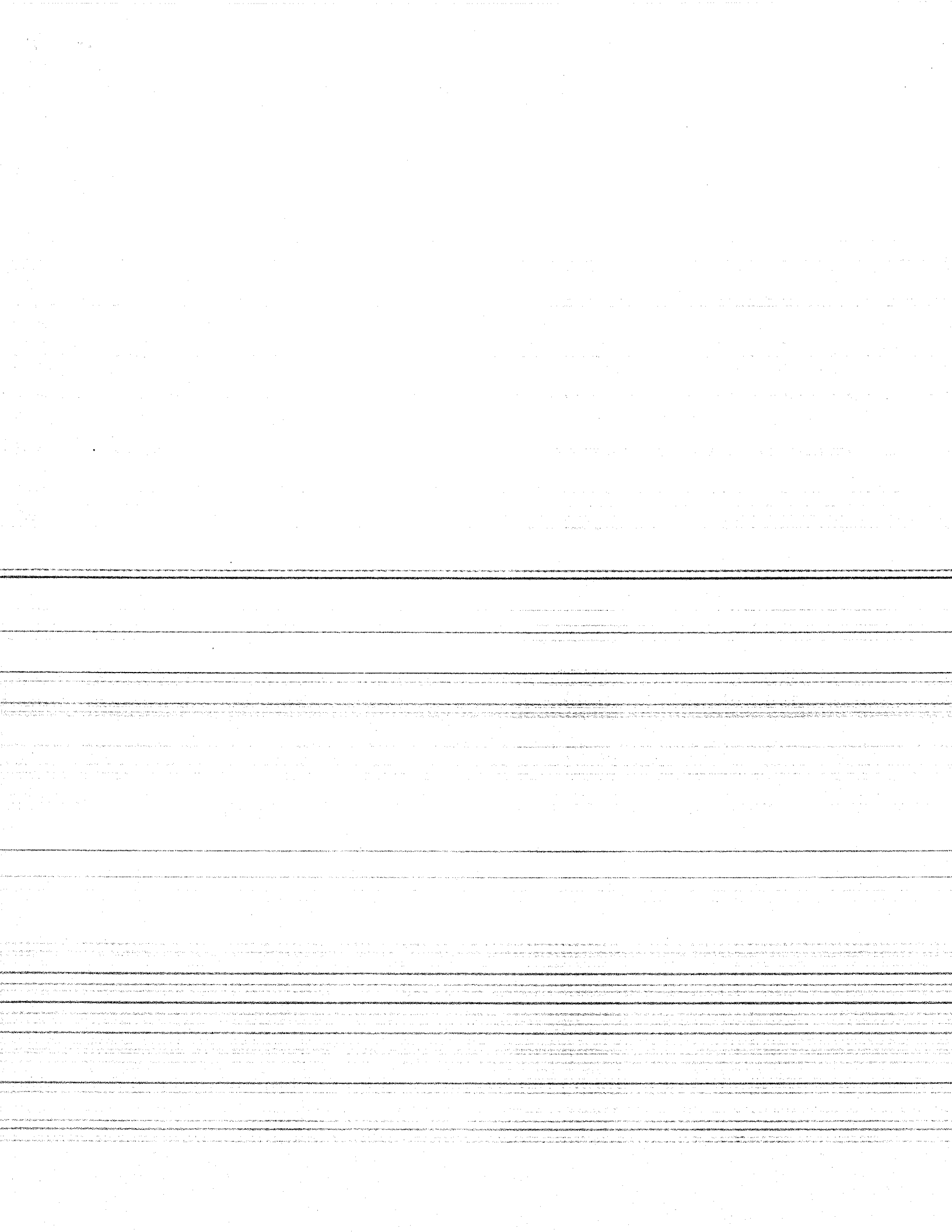
Comments: ^{first to} Road N from 233, E of Eagle Lake. Past Plot 1.
0.3 mi beyond drainage basin entry & bridge. Small turnout on S side rd.
Proceed 180° up path from center. 30 paces to center of clearing
transverse line 180°

uphill

Compass
Bearing →

ROAD OR TRAIL

← Bph 11 →



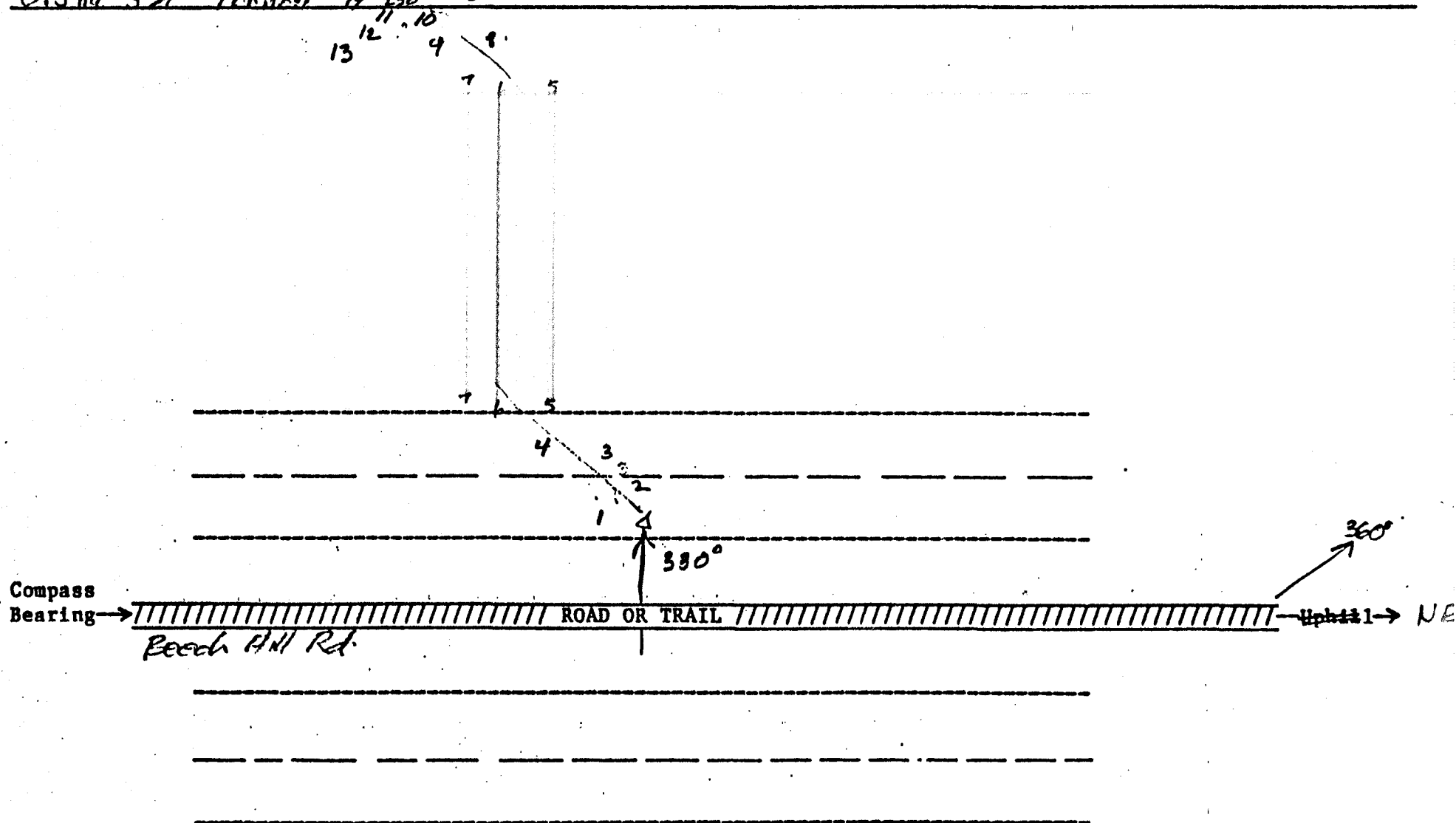
Place Where Altimeter was Set: Bar Harbor

Compass Bearing at Starting Point: 330° to Δ; then at 250° transit line

Investigators: MT - MT

Turnoff at Beach Mt rd & 0.5 mi S. Park at 1/2 lane on E rd.

Comments: Ripple & Sonus pond area. 0.1 mi N to rd on E rd. Park at rd going E. Head in to W (330°) at half dead spruce above rock of main Rd at toward south with pine. Continue 60 paces rd at 330° to Δ = Red pine (Goes into break in thicket)
Run Transit from here 250° (perpendicular - NW of thicket)
0.5 mi S of turnoff at 250° 15



PLOT 19 Tagged
T61-75

Plot Locator Tree (Species, DBH, Characteristics): Center of clearing 30 paces at 180°
White pine DBH = 24.5

Site Characteristics: thin peat soil. Most mineral hardwood but young spruce, hemlock
white & red pine coming in. All under 20 ft high

Place Where Altimeter was Set:

Compass Bearing at Starting Point:

Investigators:

Comments: ^{First} ^{to} Road N from 233, E of Eagle Lake. Past Plot 1.
0.3 mi beyond carriage pass entry & bridge. Small turnout on S side rd.
Proceed 180° up path from center. 30 paces to center of clearing
traverse line 180°

uphill

Compass
Bearing →

NE ←

ROAD OR TRAIL

→ Uphill

Plot 20 = Eko - Tagged
T 76-90

good for age study

* Photo 14 = entry

Plot Locator Tree (Species, DBH, Characteristics): Turnout with old road (now trail) taking
off at 150°. Decid spruce along highway. Large rocks on trail & large wh pine

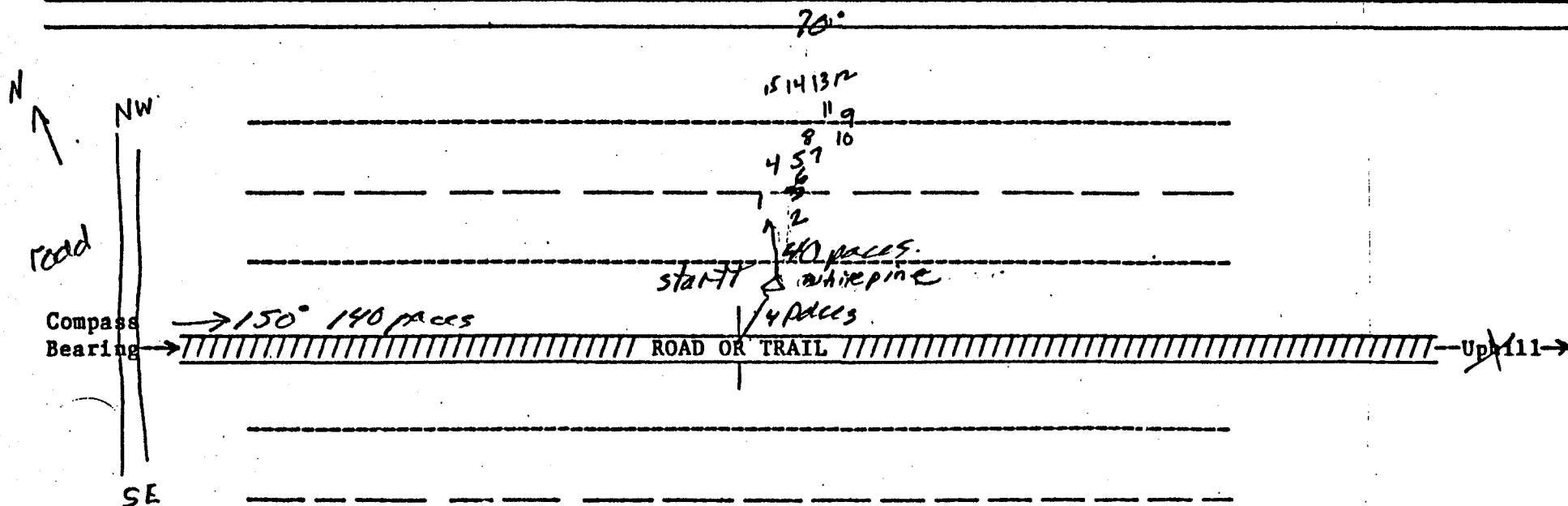
Site Characteristics: level ground Trees dense throughout. Most pine coming from
same spot Spr-fir co-dom.

Place Where Altimeter was Set:

Compass Bearing at Starting Point: 70° Transect from Δ

Investigators: MT & MT

Comments: 0.3 mi into Eko from South ^{junction} Place along trail starting from first rock (140 paces)
Look for clearing to North and downed tree blocking trail Δ just past downed tree
Transect at 70° from Δ



Site 6 Penobscot

	DBH	Treehow #
1	5.5	212
2	5.1	—
3	4.5	213
4	6.3	211
5	5.5	—
6	4.0	—
7	4.9	—

	DBH	Treehow #
8	5.6 ~~4.8~~	—
9	4.9	—
10	5.5	216
11	6.5	214
12	4.5	215
13	4.5	217
14	5.2	218
15	7.2	219

(14)

(13)

(10)

(8)

(7)

(4)

(6)

(12)

(11)

(5)

(2)

(3)

(4)

(1)

Q marks spruce

Site 1 Dark Brook

DBH (inches)

- 1 8.7
- 2 6.3
- 3 8.0
- 4 5.5
- 5 8.3
- 6 8.9
- 7 5.1
- 8 7.1
- 9 7.5
- 10 5.7
- 11 6.7
- 12 5.8
- 13 6.2
- 14 5.5
- 15 5.4

Meadow

①

③

②

⑤

④

⑥
⑦

⑩

⑧

⑨

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⑫

⑬

⑭

⑮

Site 12

McFarland

Trunk #

- 1 6.9
- 2 7.6
- 3 7.5
- 4 5.2
- 5 6.1
- 6 6.0
- 7 6.4

- 8 6.5
- 9 10.0
- 10 4.4
- 11 5.7
- 12 4.7
- 13 6.2
- 14 5.8
- 15 6.6

188

179

172

—

—

167

168

③

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⑭

⑮

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⑳