ENGINEERING REPORT

for

CONTRACT NUMBER DACW-33-83-D-0006
WORK ORDER NUMBER 0010

SUBSURFACE INVESTIGATION

PINE POINT HARBOR
SCARBOROUGH, MAINE

July 3, 1984

Prepared for:

U.S. Army Corps of Engineers
New England Division
424 Trapelo Road
Waltham, Massachusetts 02254

EGA

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EASTERN GEOTECHNICAL ASSOCIATES • BRIGGS
164 Washington Street, Norwell, MA 02061 ▶ Telephone (617) 773-1744

July 3, 1984

Mr. Joe B. Fryar, P.E.
Chief - Engineering Division
New England Division
U.S. Army Corps of Engineers
424 Trapelo Road
Waltham, Massachusetts 02254

RE: Contract DACW-33-83-C-0006
Work Order No. 0010

Dear Mr. Fryar:

In accordance with Work Order No. 0010, dated 2 May 1984, we enclose one copy of our Engineering Report for the subsurface investigation performed at Pine Point Harbor, Scarborough, Maine for proposed anchorages. Two additional copies have been delivered under separate cover to your Geotechnical Engineering Branch.

If you have any questions or comments, please do not hesitate to call.

Very truly yours,

David S. Campbell, P.E.
President

DSC/rb
Attachments

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1.0 GENERAL

1.1 Authorization

The work reported herein was performed under Contract DACW 33-81-D-0006, Work Order Number 0010, dated 2 May 1984. The authority for this project was derived from Section 107, Small Boat Navigation Project.

1.2 Project Site

The site is located in Pine Point Harbor, Scarborough, Maine.

1.3 Purpose

The purpose of this work was to determine the subsurface conditions for the proposed anchorage in Pine Point Harbor, Scarborough, Maine.

1.4 Scope of the Investigation

Inspection and exploration instructions, which were provided by the Army Corps of Engineers, New England Division, are included in Appendix A. The subsurface investigation program employed continuous drive sample borings and machine probes.

Work under this delivery order consisted of locating two drive sample borings and seventeen machine probes by means of ranges and sextant at locations as shown on Figure 1. Elevations were to be estimated from daily tide curves using mean low water (MLW) as the datum.

The drive sample borings were performed in accordance with paragraph "7" page C-11 of the specifications using a solid-barrel sampler with sampling intervals of 5 ft. The borings were taken to the specified depth of 15 ft or refusal. Where refusal was encountered, rock was to be cored a minimum of three feet. The field logs for the test borings are included as Appendix D. The machine probes were performed in accordance with paragraph "8c. (3)" page C-14 of the specifications using "AW" size drill rods. Probes were driven to the specified depth of -10 ft MLW or refusal. The field logs for the probes are included as Appendix E.

2.0 QUALITY CONTROL

2.1 Equipment

The following equipment and tools were used to perform the work:

a. Drilling Platform: A 16 by 12 ft wooden raft was used as the drilling platform. The raft was moved by a 16 ft Boston Whaler, powered by a one hundred horsepower Johnson outboard motor.

b. Core Drill: The core drill used was a modern hydraulically driven rotary head unit manufactured by Acker Drill Company.

c. Drive Hammer: The drive hammer used to advance the solid-barrel sampler and drill rods for probes weighed approximately 300 pounds.

d. Casing and Rods: NW (3-0 in. I.D.) flush joint casing was used to keep the borehole open. AW-size drill rods were used in washing out the borehole and driving the solid-barrel sampler and AW drill rods for probes.

e. Samplers: The equipment employed to obtain soil samples was a solid-barrel sampler 5.0 ft in length with an inside diameter of 1-7/8 in. Rock cores were obtained by a swivel head, double tube, 2-3/16 in. I.D. core barrel using an impregnated diamond bit.

2.2 Records

NED Forms 121, 58 and 58A were used to record pertinent drilling and sampling operations. The boring and probe logs include the following information:

(1) Name of project.

(2) Site location designation.

(3) Ground elevation at location of exploration.

(4) Date exploration performed.

(5) Method of penetration.

(6) Depth of penetration.

(7) Density of material encountered, determined by sound and performance of probing operation.

(8) Name of driller and Field Inspector.

(9) Blows/foot or blows/six inches of penetration.

The test boring logs contained the following information:

(1) Hole number, hole designation and elevation of top of hole.

(2) Make and manufacturer's model designation of equipment.

(3) Type of drilling and sampling operation by depth.

(4) Dates and time by depth when drilling and sampling operations were performed.

(5) Depths at which samples or cores were recovered or attempts made to sample including top and bottom depths of each sampling interval. Classification or description including geologic and common usage designation such as till, fluvial deposits, etc. by depths of materials sampled or penetrated including a description of moisture conditions, color and conditions of compactness or stiffness of soils materials encountered. Record of penetration resistance such as drive hammer blows given in blows per six inches of penetration depth for driving sample spoons.

(6) Depths at which drill water is lost and regained.

(7) Depth to bottom of hole.

(8) Percentage of sample of core recovered per run.

2.3 Procedures

a. Boreholes were advanced by sampling in which a 1-7/8 inch I.D. by 5.0 foot solid-barrel sampler was advanced from the ground surface or below the bottom of the casing into undisturbed soil by the impact of a hammer weighing approximately 300 pounds, falling 18 inches. Refusal was defined as 100 blows with not penetration or bouncing refusal.

b. The sample spoon shoes were kept reasonably sharp at all times. Dull, bent, or otherwise damaged samplers were not used. Following sampling, the casing was advanced and cleaned out using an appropriately sized side discharging chopping bit or roller rock bit.

c. Samples were classified in the field immediately following the taking of the sample. Classification was in accordance with ASTM D-2487 and D-2488. Representative samples were take from each soil sampling run and placed in 16 oz. glass jars with hermetically sealed lids. Jars were labeled with sample number, sampling interval, boring number, date, location, and soil description. A chain of custody log was maintained documenting custody of the samples between the field and transportation and delivery to the laboratory at NED.

d. The machine probes were made by advancing an open-end AW drill rod from the mudline to the specified depth or refusal by the impact of a 300 pound hammer falling freely through an 18 inch drop, recording the blows per foot of penetration. Refusal is defined as 100 blows with no penetration or bouncing refusal.

e. The location of each test boring and probe was established by turning two angles between control points established on shore using a sextant.

3.0 QUALITY ASSURANCE CERTIFICATION

I hereby certify that the above-mentioned records, equipment, and procedures were used to perform the subsurface exploration described herein. I also certify that the work was performed in a professional manner and meets the requirements set forth in the work order.

CERTIFIED 22 May 1984

David S. Campbell

TABLE 1

SUMMARY OF ACTIVITIES

DATE	ACTIVITY
5 May	Friday: Mobilized drilling equipment to Scarborough, Maine. Made arrangements to launch raft using a crane provided by Badger Rand Company, Inc., Portsmouth, New Hampshire on 7 May 1984.
7 May	Monday: Assembled raft and launched raft and boat. Started necessary survey work to establish ranges for use in locating borings and probes by sextant.
8 May	Tuesday: Survey work completed and drilling was started at probe location P-2. Completed probe FP-84-1 and boring FD-84-1. Heavy rain stopped work at 1430 hrs.
9 May	Wednesday: Raft and boat caught in rip tide. Raft went aground in attempt to navigate around rough water by staying close to shore. Raft stranded for 3-1/2 hrs. Buoys were set at probe locations while raft was grounded. Started and completed 6 probes, FP-84-2 thru FP-84-7.
10 May	Thursday: Completed probes FP-84-8 thru FP-84-11. Low tide prevented additional probes from being accomplished.
11 May	Friday: Completed boring FD-84-3 and probes FP-84-12 thru FP-84-17. Low tide prevented access to boring location B-1.
14 May	Monday: Started boring B-1, FD-84-2. Heavy rain prevented the completion of the boring.
15 May	Tuesday: Electrical problems with outboard motor were repaired and boring B-1, FD-84-2 was completed.
16 May	Wednesday: Demobilized drilling equipment and raft. Field work for Pine Point Harbor was completed.

APPENDIX A

INSPECTION AND EXPLORATION INSTRUCTIONS

ATTACHMENT NO. 1

GEB REQUISITION NO. 84-43 - DACW 33-83-D-0006

DELIVERY ORDER No. 0010

INSPECTION AND EXPLORATION INSTRUCTIONS

PROJECT: Section 107, Small Boat Navigation Project

SITE: Pine Point Harbor, Scarborough, ME

PURPOSE: The subsurface investigations are to determine the foundation conditions for the proposed anchorage in Pine Point Harbor, Scarborough, ME.

1. SCOPE OF INVESTIGATION

a. Locate two continuous 300# cased drive sample borings and up to twenty-four (24) 300# machine probes by means of ranges and sextant for the locations as indicated on Attachment No. 2. Front ranges shall be located along base line and rear ranges along the offset line which shall be a minimum of 150 feet away from base line. Two angles shall be used for each location. One angle shall be taken from corner of building (Sta 0+00 on baseline) to the ranges and the other from red daymaker to the ranges. Optional probes will be determined by Mr. Blair after completion of all proposed probes. Elevations will be estimated based on daily tide curves. Mean low water (MLW) will be the datum used on all boring logs and throughout the engineering report.

b. Up to twenty-four (24) machine probes shall be driven to an elevation of up to -10 MLW or refusal in accordance with paragraph 8c. (3) page C-14 of the specifications and shall be performed using "A" size rods. Optional probes shall be determined by Mr. Blair after completion of all proposed probes.

c. The two continuous drive sample borings shall be driven to a depth of 15 feet or refusal. The sampling work shall be in accordance with paragraph 7, page C-11 of the specifications. Water content jar samples shall be taken in all fine grain soil which exhibits any plasticity. Where refusal is encountered, 3 feet of rock core will be drilled terminating the work at this location.

d. A geotechnical inspector shall act as field inspector while performing the borings and probes. The inspector shall provide telephone reports to Mr. Blair, Corps of Engineers, at 617-647-8396 at least every two working days and upon completion of all proposed probes.

e. All samples shall be delivered to the Corps of Engineers Headquarters in Waltham, Massachusetts by the field inspector. Sample delivery shall be coordinated with the Director, NED Materials and Water Quality Laboratory at 617-647-8367/8392.

2. SITE CONDITIONS

The proposed exploration program is in Pine Point Harbor, Scarborough, ME. All of proposed explorations are within the tidal range. It is anticipated that water depths at the exploration site range from 0 to 15 feet. The boring program shall be organized such that explorations in high areas are accomplished during high tides to avoid delay in the program.

3. RIGHTS OF ENTRY

The Contractor is responsible for securing any rights of entry, approvals, permits, etc. necessary for the performance of the work.

4. COORDINATION

Mr. James Blair, Corps of Engineers, 617-647-8396, shall be contacted five days prior to start of work and at least every two working days, completion of all proposed probes or at the completion of each boring whichever is more frequent by the geotechnical inspector to report on how work is progressing and what types of materials are being encountered.

5. EXPLORATION NUMBERS

The machine probes designated P-1 through P-24 and located on Attachment 2 shall be numbered FP-84-1 through FP-84-24 in order of their completion. The drive sampling borings designated B-1 through B-2 and located on Attachment 2 shall be numbered FD-84-1 and FD-84-2 in order of their completion. The new numbers shall be indicated on the exploration logs and shown on a plan of explorations.

6. GOVERNMENT REVIEW

The Government will review the draft submittal as well as the completed work. Subsequent to such review, the Contractor shall accomplish any corrections which may be directed as the result of the Government review.

7. COMPLETION SCHEDULE

Services under this delivery order shall start within 15 calendar days after receipt of delivery order. Duration of field work is estimated to be six work days. The geotechnical report shall be submitted in draft format for review by the Government, post-marked no later than seven calendar days after completion of the field work. Government review will take approximately ten calendar days from receipt of draft report. The final geotechnical report shall be submitted post-marked no later than seven calendar days after receipt of draft report including the action taken on possible Government comments.

APPENDIX B

SAFETY REPORTS

EASTERN GEOTECHNICAL ASSOCIATES

WEEKLY SAFETY MEETING

TO: Safety Office, NED

FROM: Field Engineer — Date held 5-4-84

THRU: Project Engineer — Time 0600

Weekly safety meeting was held this date for the following personnel:
Contract No. DACW 33-83-D-0006 Personnel present: C. Reil
Work Order No. 0010 C. Coolen
Conducted By: Ronald Bukoski

1. Subjects discussed (Note, delete, or add):

Individual Protective Equipment -
Prevention of Falls -
Safe Lifting Techniques -
Emergency Communications -
Fire Prevention -
Sanitation, First Aid -
Tripping Hazards - trash, hose, nails in lumber -
Staging, Ladders, Concrete Forms -
Hand Tools -
Portable Power Tools -
Woodworking Machinery -
X Equipment Maintenance (Zero defects) -
Hoisting Equipment -
Ropes, Hooks, Chains and Slings -
Electrical Grounding, Temporary Wiring -
Lockouts for safe clearance procedures -
Electrical, pressure, moving parts -
Welding -
Excavations -
Loose Rock and Steep Slopes -
Explosives -
X Water Safety -
X Other - Driving Safety

Prepared by: Ronald Bukoski
Field Engineer

2. Exposure:

No previous exposure, start of new work order.

Signature: Ronald F. Bukoski
Project Engineer

3. Forwarded: NED, Waltham, MA

EASTERN GEOTECHNICAL ASSOCIATES

WEEKLY SAFETY MEETING

TO: Safety Office, NED

FROM: Field Engineer — Date held 5-7-84

THRU: Project Engineer — Time 0700

Weekly safety meeting was held this date for the following personnel:
Contract No. DACW 33-83-D-0006 Personnel present: C. Reil
Work Order No. 0010 C. Coolen
Conducted By: John Crowther B. Smith

1. Subjects discussed (Note, delete, or add):

X Individual Protective Equipment -
Prevention of Falls -
Safe Lifting Techniques -
Emergency Communications -
Fire Prevention -
Sanitation, First Aid -
Tripping Hazards - trash, hose, nails in lumber -
Staging, Ladders, Concrete Forms -
Hand Tools -
Portable Power Tools -
Woodworking Machinery -
Equipment Maintenance (Zero defects) -
X Hoisting Equipment -
X Ropes, Hooks, Chains and Slings -
Electrical Grounding, Temporary Wiring -
Lockouts for safe clearance procedures -
Electrical, pressure, moving parts -
Welding -
Excavations -
Loose Rock and Steep Slopes -
Explosives -
X Water Safety -
Other -

Prepared by: John Crowther
Field Engineer

2. Exposure:

For May 4, 1984, covering two men, for a total exposure of 20 manhours.

Signature: Ronald F. Bukoski
Project Engineer

3. Forwarded: NED, Waltham, MA

EASTERN GEOTECHNICAL ASSOCIATES

WEEKLY SAFETY MEETING

TO: Safety Office, NED

FROM: Field Engineer

Date held 5-14-84

THRU: Project Engineer

Time 0700

Weekly safety meeting was held this date for the following personnel:
Contract No. DACW 33-83-D-0006 Personnel present: C. Reil
Work Order No. 0010 C. Coolen
Conducted By: John Crowther

1. Subjects discussed (Note, delete, or add):

Individual Protective Equipment -
Prevention of Falls -
Safe Lifting Techniques -
Emergency Communications -
X Fire Prevention -
Sanitation, First Aid -
X Tripping Hazards - trash, hose, nails in lumber -
Staging, Ladders, Concrete Forms -
Hand Tools -
Portable Power Tools -
Woodworking Machinery -
Equipment Maintenance (Zero defects) -
Hoisting Equipment -
X Ropes, Hooks, Chains and Slings -
Electrical Grounding, Temporary Wiring -
Lockouts for safe clearance procedures -
Electrical, pressure, moving parts -
Welding -
Excavations -
Loose Rock and Steep Slopes -
Explosives -
Water Safety -
Other -

Prepared by: John Crowther
Field Engineer

2. Exposure:

For May 7 thru May 12, 1984, covering three men, for a total exposure of 110 manhours.

Signature: Ronald F. Bukoski
Project Engineer

3. Forwarded: NED, Waltham, MA

EASTERN GEOTECHNICAL ASSOCIATES

WEEKLY SAFETY MEETING

TO: Safety Office, NED

FROM: Field Engineer Date held 5-17-84

THRU: Project Engineer Time_____

Weekly safety meeting was held this date for the following personnel:
Contract No. DACW 33-83-D-0006 Personnel present:_____
Work Order No. 0010 _____
Conducted By:_____ _____
_____
_____
_____

1. Subjects discussed (Note, delete, or add):

Individual Protective Equipment -
Prevention of Falls -
Safe Lifting Techniques -
Emergency Communications -
Fire Prevention -
Sanitation, First Aid -
Tripping Hazards - trash, hose, nails in lumber -
Staging, Ladders, Concrete Forms -
Hand Tools -
Portable Power Tools -
Woodworking Machinery -
Equipment Maintenance (Zero defects) -
Hoisting Equipment -
Ropes, Hooks, Chains and Slings -
Electrical Grounding, Temporary Wiring -
Lockouts for safe clearance procedures -
Electrical, pressure, moving parts -
Welding -
Excavations -
Loose Rock and Steep Slopes -
Explosives -
Water Safety -
Other -

Prepared by: _____
Field Engineer

2. Exposure:

For May 14 thru May 16, 1984, covering three men, for a total exposure of 40 manhours. Field work for Work Order No. 0010 was completed on May 16, 1984.

Signature: Ronald F. Babski
Project Engineer

3. Forwarded: NED, Waltham, MA

APPENDIX C

CHAIN OF CUSTODY LOG

EASTERN GEOTECHNICAL ASSOCIATES

Chain of Custody Log

Project: Subsurface Investigation: Pine Point Harbor
Contract DACW-33-83-D-0006, WO 10

Items: Jar Samples 5

Bottles

Core Boxes 1

Sampling Logs FD-84-1, FD-84-2

Date & Time Received	Date & Time Transfered	Comments	Condition
1. as sampled			
2.	5-17-84 10.00		[illegible]
3.	5-17-84 12:30		Chris Turek
4.			
5.			

APPENDIX D

FIELD LOGS OF TEST BORINGS

CORPS OF ENGINEERS, U. S. ARMY
NEW ENGLAND DIVISION
FOUNDATION AND MATERIALS BRANCH

FIELD LOG OF TEST BORING

Site Pine Pt. Harbor ME. PROJECT NO. 0010

Page 1 of 4 Pages

Hole No. FD-84-1 Diam. (Casing) 3"

Boring Started 5-8-84

Co-ordinates: N _____ E _____

Boring Completed 5-8-84

Drilled by EASTERN GEOTECHNICAL ASSOC.

Report Submitted _____

Purpose of Exploration DREDGE SITE

Elevation Top of Hole -9.05 MLW ~~M.S.L.~~

Casing Left in Place — Feet

Total Overburden Drilled 5.0 Feet

Elevation Top of Rock -14.05 MLW ~~M.S.L.~~

Elevation Bottom of Hole -17.05 MLW ~~M.S.L.~~

Total Rock Drilled 3.0 Feet

Total Depth of Hole 8.0 Feet

Core Recovered 76 %

Core Recovered 2.3 Ft.; ____ Diam. 2.1 in.

Soil Samples 17/18" in. Diam. 2 No.

Soil Samples _____ in. Diam. ____ No.

Water Table Depth —

Depth From	Depth To	Method of Drilling and Type of Bit Used
0.0	4.75	SAMPLED WITH 5FT. X 1 7/8" ID.
		SOLID SPOON SAMPLER FROM 0.0
		TO 4.75 FT. CASED TO 5.0 FT.
5.0	8.0	WASHED OUT AND CORED
		WITH NX DIAMOND CORE
		BIT + BARREL TO 8.0 FT.

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Prepared by John Crowther
Field Data Lab. Data

Submitted by _____

NED FORM DEC 63 121

REPLACES EDITION OF JUN 51 WHICH MAY BE USED UNTIL EXHAUSTED

U. S. ARMY
CORPS OF ENGINEERS
NEW ENGLAND DIVISION

FIELD LOG OF TEST BORING

Site Pine Pt. Harbor ME. Page 2 of 4 Pages

Boring No. FD-84-1 Desig. B-2 Diam. (Casing) _____

Co-ordinates: N _____ E _____

Elevation Top of Boring -9.05 ~~M.S.L.~~ MLW
Total Overburden Drilled 5.0 Feet
Elevation Top of Rock -14.05 M.S.L.
Total Rock Drilled 3.0 Feet
Elevation Bottom of Boring -17.05 ~~M.S.L.~~ MLW
Total Depth of Boring 8.0 Feet
Core Recovered 76 % No. Boxes 1
Core Recovered 2.3 Ft. ____ Diam. 2.1 In.
Soil Samples 1 7/8" In. Diam. 2 No.
Soil Samples _____ In. Diam. ____ No.

Hammer Wt. 300 lbs
Hammer Drop 18"
Casing Left —
Subsurface Water Data: _____ Page _____
Obs. Well —
Drilled By EASTERN GEOTECHNICAL ASSOC.
Mfg. Des. Drill ACKER
Inspected By: J. Crouther
Classification By: J. Crouther
Classification By: _____

Boring Started 5-8-84
Boring Completed 5-8-84

DEPTH: CASING BLOWS (PERF. 300 lb HAMMER)	DEPTH: 1" = 1.0	CORE/SAMPLE: NO.	SIZE	DEPTH RANGE	BLOWS PER 6" / CORE REC'VY	SAMPLING AND CORING OPERATIONS	CLASSIFICATION OF MATERIALS
4	1.0	1	1 7/8"		2, 7, 8, 8, 9, 12	SAMPLED WITH 5 FT. X 1 7/8" I.D. SPOON FROM 0.0 TO 4.75 FT. WITH 300 lb HAMMER	SILTY SAND fine sand, 10-15% non plastic fines, trace shells, dark grey (SM) NOTE: ODOR
15	2.0						
28	3.0						3.0
17	4.0	1A			13, 15	DROVE 3 INCH I.D. CASING FROM 0.0 TO 5.0 FT. WITH 300 lb HAMMER AND WASHED OUT.	SILTY SAND coarse to fine, mostly fine, 5-10% gravel, 10-15% non plastic fines, grey (SM)
10	5.0				20, 20	25" REC. BOULDER AT 4.75 FT.	POSS. GLACIAL TILL 4.75 FT

GENERAL REMARKS: WATER 9.75 FT. DEEP AT 1008 HRS ON 5-8-84

Site: Pine Pt. Harbor ME.	Boring No. FD-84-1	Page 3 of 4

DEPTH	CORE/SAMPLE NO.	SIZE	DEPTH RANGE	BLOWS PER FT. / CORE REC'VY	SAMPLING AND CORING OPERATIONS	CLASSIFICATION OF MATERIALS
2.0			5.0 TO		CORED FROM 5.0 TO 8.0 FT. WITH "NX" CORE BARREL.	Phyllite Dense, grey, silt in fractures IN 3 ft. Drilled.
6.0	1	NX		27.5" REC.	DRILL TIME = 1hr 52 min	Note: foliation more noticable on exposed outcrops
7.0					RECOVERY = 27.5" = 76%	
					RQD = 47	
8.0			8.0			8.0 FT.
					END OF BORING AT 8.0 FT.	
						NOTE: BEDROCK OUTCROP 60 FT. TO THE NORTH EAST ±
						SHOWS AS +1.0 ON SOUNDINGS PLAN

Site: PINE POINT ME

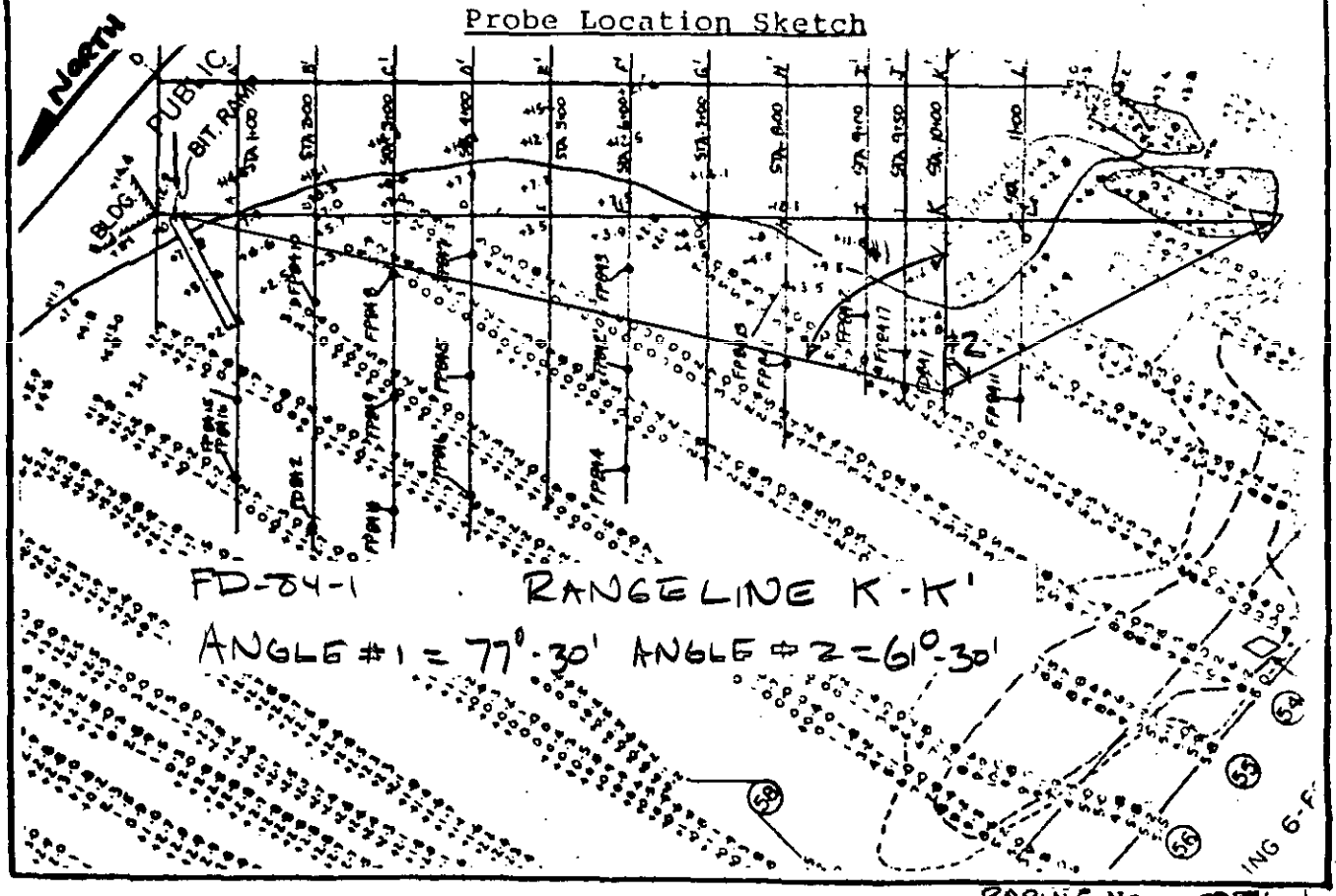
BORING No. FD-84-1

TIDAL OBSERVATIONS

DATE	TIME	DEPTH-BOT OF CASING	DEPTH-BOT OF BORING	DEPTH TO BOTTOM	ELEVATION OF TIDE	REMARKS
5-8-84	1008	5.0	8.0	9.75	0.7	EL TOP OF BORING
						= -9.05 MLW
						EL BOT = -17.05'

Note: Depths are in feet below original ground or mudline.

Probe Location Sketch



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NEW ENGLAND DIVISION
FOUNDATION AND MATERIALS BRANCH

FIELD LOG OF TEST BORING

Site Pine Point Harbor ME. PROJECT NO. 0010

Page 1 of 5 Pages

Hole No. FD-84-2 Diam. (Casing) 3"

Boring Started 5-14-84

Co-ordinates: N _____ E _____

Boring Completed 5-15-84

Drilled by EASTERN GEOTECHNICAL ASSOC.

Report Submitted _____

Purpose of Exploration DREDGE SITE

Elevation Top of Hole 0.8 ~~H.S.L.~~ MLW

Casing Left in Place — Feet

Total Overburden Drilled 15 Feet

Elevation Top of Rock — H.S.L.

Elevation Bottom of Hole -14.2 ~~H.S.L.~~ MLW

Total Rock Drilled — Feet

Total Depth of Hole 15.0 Feet

Core Recovered — %

Core Recovered — Ft.; ____ Diam. ____ In.

Soil Samples 1 7/8 In. Diam. 3 No.

Soil Samples _____ In. Diam. ____ No.

Water Table Depth —

Depth From	Depth To	Method of Drilling and Type of Bit Used
0	15.0	SAMPLED WITH 5FT. X 1 7/8" ID.
		SOLID SPOON SAMPLER FROM
		0.0 TO 15.0 FT. SAMPLED
		AND CASED WITH 300 lb
		HAMMER, WASHED CASING.

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Prepared by JOHN CROWTHER
Field Data Lab. Data

Submitted by _____

NED FORM DEC 63 121

REPLACES EDITION OF JUN 51 WHICH MAY BE USED UNTIL EXHAUSTED

U. S. ARMY
CORPS OF ENGINEERS
NEW ENGLAND DIVISION

FIELD LOG OF TEST BORING

Site Pine Point Harbor ME. Page 2 of 5 Pages

Boring No. FD-84-2 Desig. B-1 Diam. (Casing) 3"

Co-ordinates: N _____ E _____

Elevation Top of Boring 0.8 M.S.L.
Total Overburden Drilled 15 Feet
Elevation Top of Rock — M.S.L.
Total Rock Drilled — Feet
Elevation Bottom of Boring -14.2 M.S.L.
Total Depth of Boring 15 Feet
Core Recovered — % No. Boxes _____
Core Recovered — Ft. _____ Diam. _____ In.
Soil Samples 1 7/8 In. Diam. 3 No.
Soil Samples _____ In. Diam. _____ No.

Hammer Wt. 300 lbs. Boring Started 5-14-84
Hammer Drop 18" Boring Completed 5-15-84
Casing Left _____
Subsurface Water Data _____ Page _____
Obs. Well _____
Drilled By EASTERN GEOTECHNICAL ASSOC.
Mfg. Des. Drill ACKER
Inspected By: J. Crowther
Classification By: J. Crowther
Classification By: _____

DEPTH: CASING BLOWS	DEPTH: 1" = 1.0	CORE/SAMPLE: NO.	CORE/SAMPLE: SIZE	CORE/SAMPLE: DEPTH RANGE	BLOWS PER 6" / CORE REC'VY	SAMPLING AND CORING OPERATIONS	CLASSIFICATION OF MATERIALS
300 lb HAMMER PER FOOT				0.0		1.75 FT. SINK IN WITH WEIGHT OF HAMMER.	
	1.0	1	1 7/8"			SAMPLED WITH 5 FT. x 1 7/8" I.D. SPOON FROM 0.0 TO 5.0 WITH 300 lb HAMMER	SAND fine 5-10% non plastic fines, trace shells organics + med. sand, grey + brown (SP-SM)
2.0 FT SINK IN W/ WEIGHT OF HAMMER							
	2.0				3		
6					5		
					5		
	3.0				6	DROVE 3" I.D. CASING FROM 0.0 TO 5.0 FT. WITH 300 lb HAMMER AND WASHED.	
13					4		
	4.0				2		
14							
	5.0			5.0	2	16 REC.	

GENERAL REMARKS WATER 5.6 FT. DEEP AT 0950 hrs ON 5-15-84

Site: Pine Point Harbor	Boring No. FD-84-2	Page 3 of 5

DEPTH		CORE/SAMPLE NO.	SIZE	DEPTH RANGE	BLOWS PER 6" / CORE REC'VY	SAMPLING AND CORING OPERATIONS	CLASSIFICATION OF MATER ALS
	5.0						
6		2			3	SAMPLED WITH 5 FT. x 1 7/8" I.D. SPOON FROM 5.0 TO 10.0 FT. WITH 300 lb. HAMMER.	SAND fine, 5-10% non-plastic fines, grey (SP-SM)
	6.0				4		
16					4		
	7.0				6		
15					3		
	8.0				3		
18					5		
	9.0				6	DROVE 3" I.D. CASING FROM 5.0 TO 10.0 FT. WITH 300 lb HAMMER AND WASHED. 12" REC.	
22					9		
	10.0			10.0	8		
		3		10.0 TO	6	SAMPLED WITH 5 FT. x 1 7/8" I.D. SPOON FROM 10.0 TO 15.0 FT. WITH 300 lb. HAMMER.	SAND fine, 5-10% non plastic fines, grey (SP-SM)
	11.0				9		
					8		
	12.0				6		
					4		
	13.0				4		
					4		

Site: Pine Point Harbor ME	Boring No. FD-84-2	Page 4 of 5

DEPTH	CORE/SAMPLE NO.	SIZE	DEPTH RANGE	BLOWS PER 6" / CORE REC'VY	SAMPLING AND CORING OPERATIONS	CLASSIFICATION OF MATERIALS
12.0						
14.0				4		
				5		
			15.0	4	3" REC.	15.0
15.0					END OF BORING AT 15.0 FT.	

Site: PINEPOINT ME

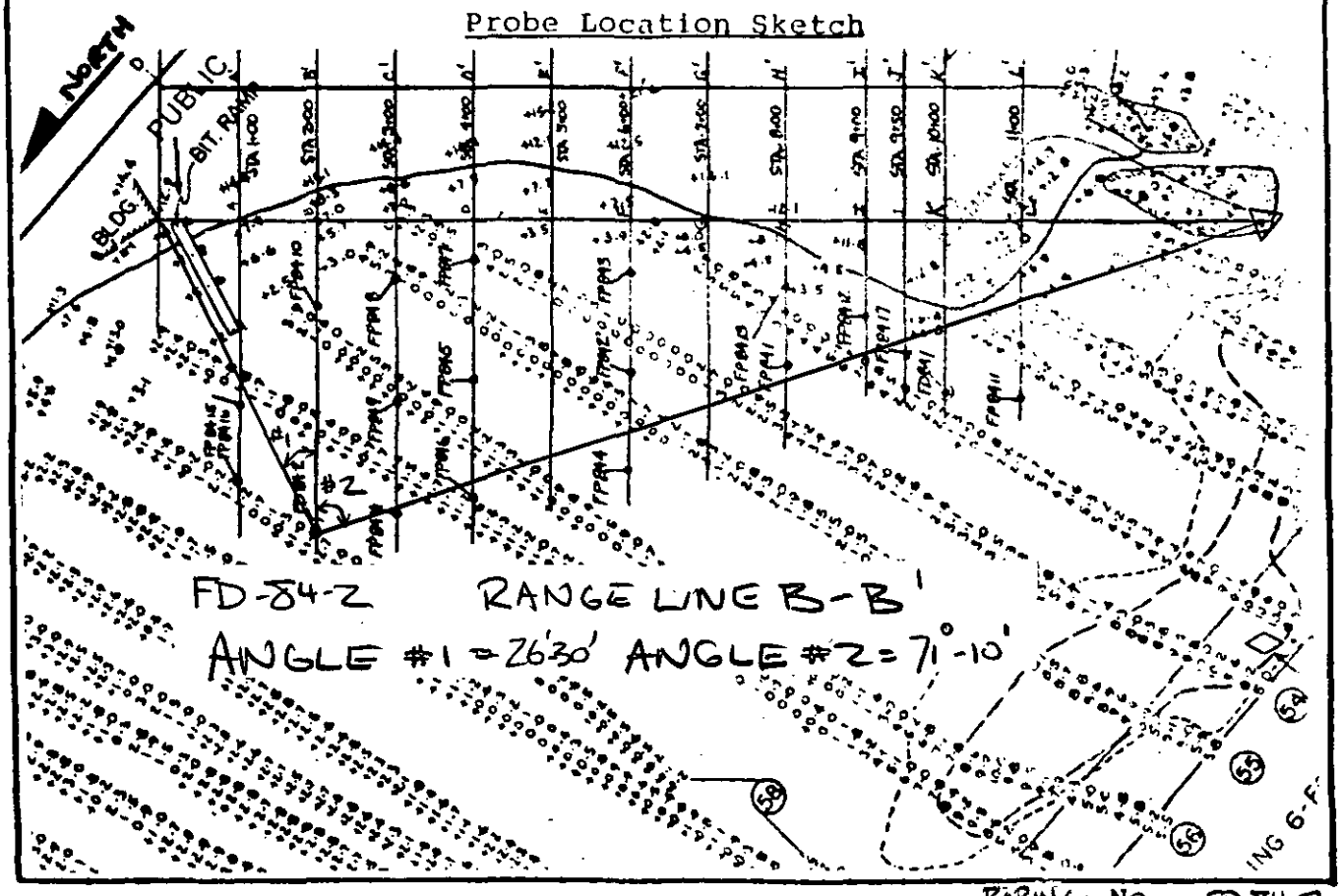
BORING No. FD-84-2

TIDAL OBSERVATIONS

DATE	TIME	DEPTH-BOT OF CASING	DEPTH-BOT OF BORING	DEPTH TO BOTTOM	ELEVATION OF TIDE	REMARKS
5-5-84	0950	10.0	15.0	5.6	6.4	EL TOP OF BORING = 0.8 MLW
						EL BOT. = -14.2 MLW

Note: Depths are in feet below original ground or mudline.

Probe Location Sketch



APPENDIX E

FIELD LOGS OF PROBES

U. S. ARMY
CORPS OF ENGINEERS
NEW ENGLAND DIVISION

FIELD LOG OF TEST PROBE

Site Pine Point Harbor ME Page 1 of 2 Pages

Probe FP-84-1 Desig. P-200 Diam. (Casing) _____

Co-ordinates: N _____ E _____

Elevation Top -5.1 ~~M.S.L.~~ MLW
Total Overburden Drilled 8.0 Feet
Elevation Top of Rock – M.S.L.
Total Rock Drilled N/A Feet
Elevation Bottom -11.1 ~~M.S.L.~~ MLW
Total Depth 8.0 Feet
Core Recovered N/A % No. Boxes _____
Core Recovered N/A Ft: ____ Diam. ____ In.
Soil Samples N/A In. Diam. ____ No.
Soil Samples N/A In. Diam. ____ No.

Hammer Wt. 300 lbs.
Hammer Drop 18"
Casing Left –
Subsurface Water Data – Page _____
Obs. Well –
Drilled By EASTERN GEOTECHNICAL ASSOC.
Mfg. Des. Drill ACKER
Inspected By: J. Crowther
Classification By: J. Crowther
Classification By: _____

Started 5-8-84
Completed 5-8-84

DEPTH 1"=2.0	CORE/SAMPLE NO.	SIZE	DEPTH RANGE	BLOWS PER FT. CORE RECV'Y	SAMPLING AND CORING OPERATIONS	CLASSIFICATION OF MATERIALS
			0.0 TO		20 FT. SINK IN WITH WEIGHT OF HAMMER.	
1.0						
2.0						
				3	DROVE "AW" ROD PROBE FROM 0.0 TO 8.0 FT. WITH 300 lb HAMMER	
3.0						
				3		
4.0						
				3		
5.0						
				5		
6.0						
				4		SAND (INTP) Fine, 5-10% non plastic fines, grey (SP-SM)
7.0						
				3		
			8.0			TO
8.0					END OF PROBE AT 8.0 FT.	

GENERAL REMARKS: WATER 4.5 FT. DEEP AT 0930 hrs. ON 5-8-84

Probe No. FP-84-1

Site: PINE POINT ME

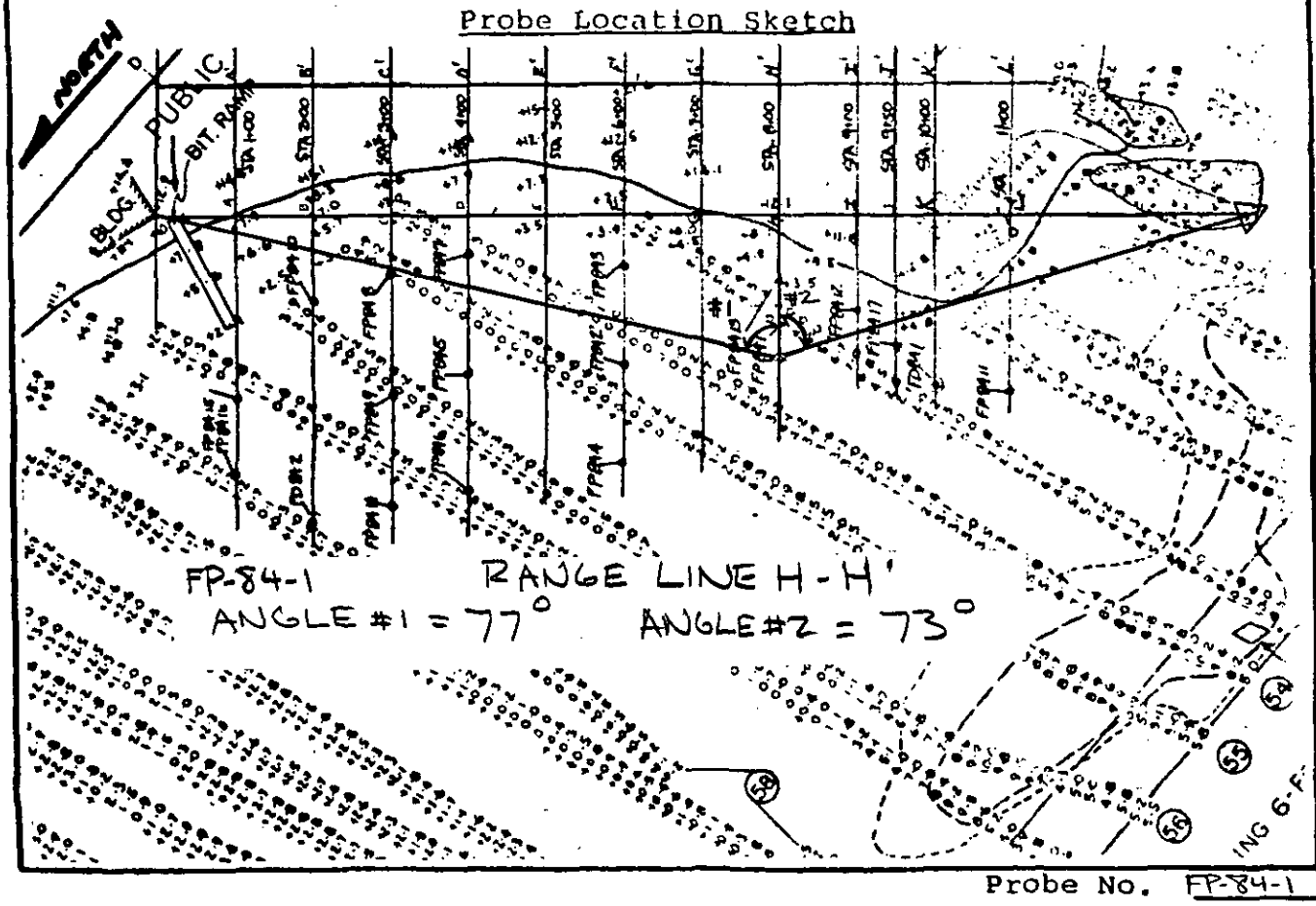
Probe No. FP-84-1

TIDAL OBSERVATIONS

DATE	TIME	DEPTH-BOT OF CASING	DEPTH-BOT OF PROBE	DEPTH TO BOTTOM	ELEVATION OF TIDE	REMARKS
5-8-84	0930	—	8.0	4.5	1.4	EL TOP OF PROBE
						= -3.1 MLW
						EL. BOTT. = -11.1'
						MLW

Note: Depths are in feet below original ground or mudline.

Probe Location Sketch



Probe No. FP-84-1

U. S. ARMY
CORPS OF ENGINEERS
NEW ENGLAND DIVISION

FIELD LOG OF TEST PROBE

Site Pine Point Harbor ME Page 1 of 2 Pages

Probe FP-84-2 Desig. P-15 Diam. (Casing) N/A

Co-ordinates: N _____ E _____

Elevation Top 0.3 ~~M.S.L.~~ MLW
Total Overburden Drilled 10.5 Feet
Elevation Top of Rock — M.S.L.
Total Rock Drilled N/A Feet
Elevation Bottom -10.2 ~~M.S.L.~~ MLW
Total Depth 10.5 Feet
Core Recovered N/A % No. Boxes _____
Core Recovered N/A Ft: ____ Diam. ____ In.
Soil Samples N/A In. Diam. ____ No.
Soil Samples N/A In. Diam. ____ No.

Hammer Wt. 300 lbs
Hammer Drop 18"
Casing Left —
Subsurface Water Data — Page _____
Obs. Well —
Drilled By EASTERN GEOTECHNICAL
Mfg. Des. Drill ACKER
Inspected By: J. Crowther
Classification By: J. Crowther
Classification By: _____

Started 5-9-84
Completed 5-9-84

DEPTH 1" = 2.0	CORE/SAMPLE NO.	SIZE	DEPTH RANGE	BLOWS PER FT. / CORE REC'VY	SAMPLING AND CORING OPERATIONS	CLASSIFICATION OF MATERIALS
			0.0	2	3 INCH SINKING WITH WEIGHT OF HAMMER	
1.0				3		
2.0				3	DROVE "AW" ROD PROBE FROM 0.0 to 10.5 FT. WITH 300 lb HAMMER.	
3.0				4		
4.0				4		
5.0				6		SILTY SAND (IN RODS) 10-20% slightly to non-plastic fines, dark gray, (SM)
6.0				6		
7.0				7		
8.0				7		
9.0				7		SAND (INTIP) fine sand 5-10% non plastic fines, gray (SP-SM)
10.0			10.5	3	END OF PROBE AT 10.5 FT	10.5 FT

GENERAL REMARKS:

1452 hrs. on 5-9-84
WATER 3.0 FT Deep

Probe No. FP-84-2

Site: PINE POINT ME

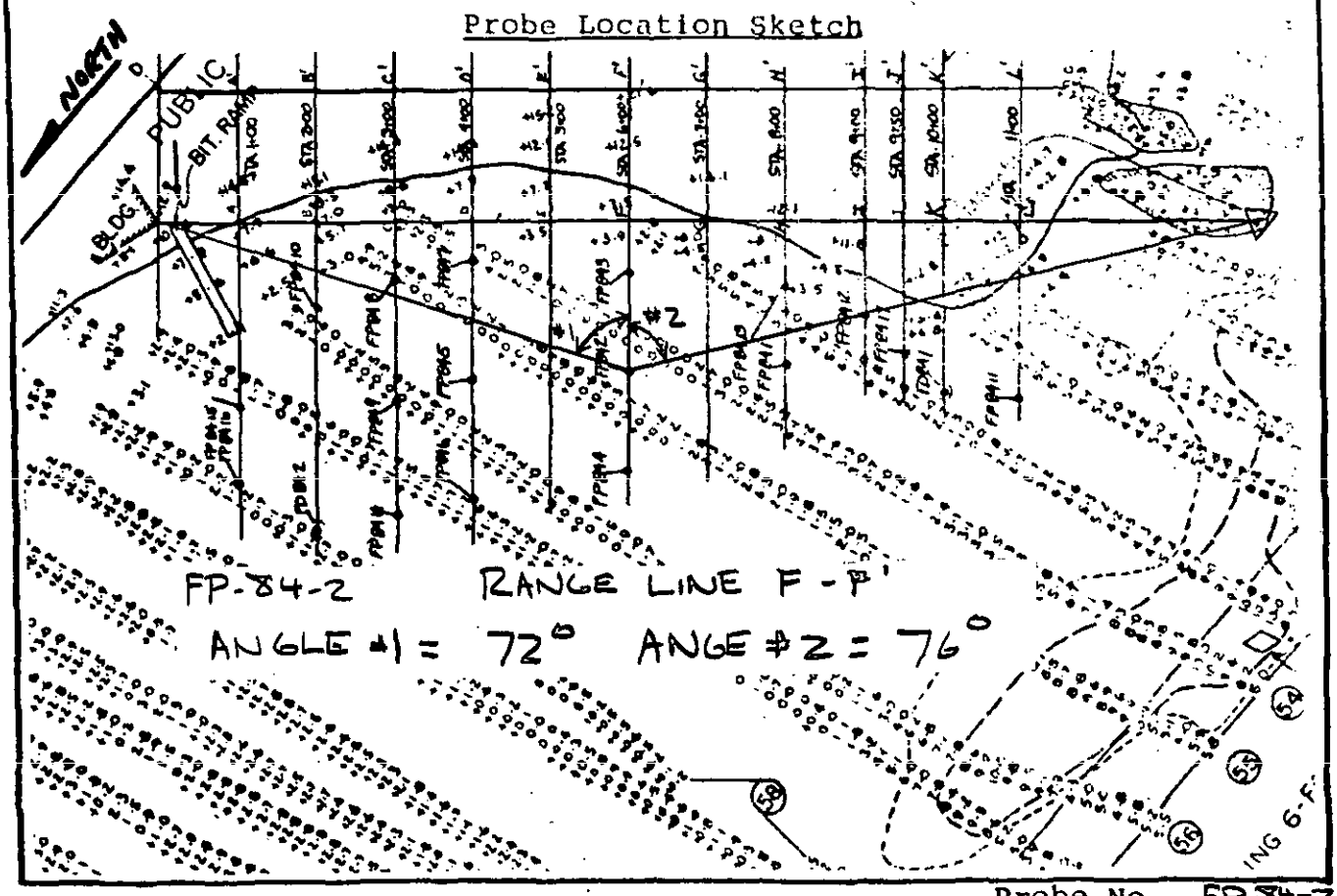
Probe No. FP-84-2

TIDAL OBSERVATIONS

DATE	TIME	DEPTH-BOT OF CASING	DEPTH-BOT OF PROBE	DEPTH TO BOTTOM	ELEVATION OF TIDE	REMARKS
5-9-84	1462	—	10.5	3.0	3.3	EL. TOP OF PROBE
						= 0.3 MLW
						EL BOTT. = -10.2
						MLW

Note: Depths are in feet below original ground or mudline.

Probe Location Sketch



U. S. ARMY
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NEW ENGLAND DIVISION

FIELD LOG OF TEST PROBE

Site Pine Point Harbor ME Page 1 of 2 Pages

Probe FP-84-3 Desig. P-16 Diam. (Casing) _____

Co-ordinates: N _____ E _____

Elevation Top -2.5 ~~M.S.L.~~ MLW
Total Overburden Drilled 8.0 Feet
Elevation Top of Rock — M.S.L.
Total Rock Drilled N/A Feet
Elevation Bottom -10.5 ~~M.S.L.~~ MLW
Total Depth 8.0 Feet
Core Recovered N/A % No. Boxes _____
Core Recovered N/A Ft: ____ Diam. ____ in.
Soil Samples N/A in. Diam. ____ No.
Soil Samples N/A in. Diam. ____ No.

Hammer Wt. 300 lbs
Hammer Drop 18"
Casing Left —
Subsurface Water Data — Page _____
Obs. Well —
Drilled By EASTERN GEOTECHNICAL ASSOC.
Mfg. Des. Drill ACKER
Inspected By: J. Crowther
Classification By: J. Crowther
Classification By: _____

Started 5-9-84
Completed 5-9-84

DEPTH 1"=2.0	CORE/SAMPLE NO.	SIZE	DEPTH RANGE	BLOWS PER FT. / CORE RECV'Y	SAMPLING AND CORING OPERATIONS	CLASSIFICATION OF MATERIALS
			0.0 TO	0	1.0 FT. SINK IN WITH WEIGHT OF HAMMER	
1.0				1		
2.0				2	DROVE "AW" ROD PROBE FROM 0.0 TO 8.0 FT. WITH 300 lb. HAMMER	
3.0				1		SAND (IN RODS) fine 5-10% non plastic fines grey (SP-SM)
4.0				5		
5.0				10		
6.0				7		
7.0				4		SAND (IN TIP) fine, 5-10% non-plastic fines grey (SP-SM)
8.0			8.0		END OF PROBE AT 8.0 FT	8.0 FT

GENERAL REMARKS: WATER 6.9 FT. DEEP AT 1523 hrs. ON 5-9-84

Probe No. FP-84-3

Site: PINE POINT ME

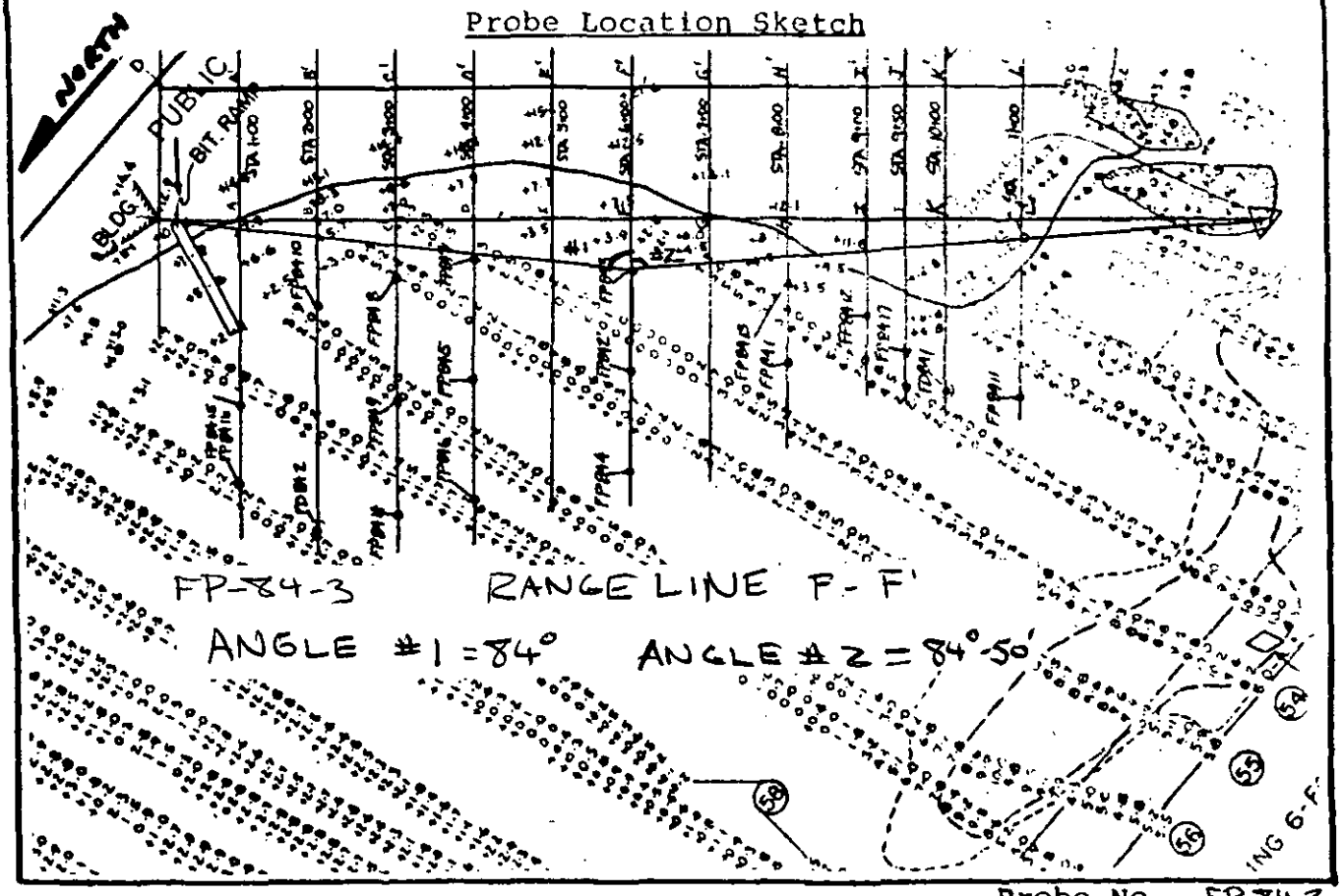
Probe No. FP-84-3

TIDAL OBSERVATIONS

DATE	TIME	DEPTH-BOT OF CASING	DEPTH-BOT OF PROBE	DEPTH TO BOTTOM	ELEVATION OF TIDE	REMARKS
5-9-84	1523	—	8.0	6.9	4.4	EL. TOP OF PROBE
						= -2.5 MLW
						EL BOTT. = -10.5
						MLW

Note: Depths are in feet below original ground or mudline.

Probe Location Sketch



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NEW ENGLAND DIVISION

FIELD LOG OF TEST PROBE

Site Pine Point Harbor ME Page 1 of 2 Pages

Probe FP-84-4 Desig. P-14 Diam. (Casing) _____

Co-ordinates: N _____ E _____

Elevation Top 0.0 ~~M.S.L.~~ MLW
Total Overburden Drilled 10.0 Feet
Elevation Top of Rock — M.S.L.
Total Rock Drilled N/A Feet
Elevation Bottom -10.0 ~~M.S.L.~~ MLW
Total Depth 10.0 Feet
Core Recovered N/A % No. Boxes _____
Core Recovered N/A Ft: ____ Diam. ____ In.
Soil Samples N/A In. Diam. ____ No.
Soil Samples N/A In. Diam. ____ No.

Hammer Wt. 300 lb
Hammer Drop 18"
Casing Left —
Subsurface Water Data _____ Page _____
Obs. Well —
Drilled By EASTERN GEOTECHNICAL ASSOC.
Mfg. Des. Drill ACKER
Inspected By: J. Clouter
Classification By: J. Clouter
Classification By: _____

Started 5-9-84
Completed 5-9-84

DEPTH 1" = 2.0	CORE/SAMPLE NO.	SIZE	DEPTH RANGE	BLOWS PER FT. CORE RECV'Y	SAMPLING AND CORING OPERATIONS	CLASSIFICATION OF MATERIALS
			0.0 TO		1.5 SINK IN WITH WEIGHT OF HAMMER	
1.0						
				2		
2.0				3	DROVE "AW" ROD PROBE FROM 0.0 TO 10.0 FT WITH 300 lb. HAMMER.	SILTY SAND (IN RODS NEAR TOP) fine sand 5-10% n.p. fines, dark grey (SM)
3.0				4		
4.0				6		
5.0				5		
6.0				3		
7.0				4		
8.0				6		SAND (IN TIP) medium to fine mostly fine, 5-10% n.p. fines, trace shells grey (SP-SM)
9.0				6		
10.0			10.0			

GENERAL REMARKS: WATER 5.3 FT. DEEP AT 1548 hrs ON 5-9-84

Probe No. FP-84-4

Site: PINE POINT ME

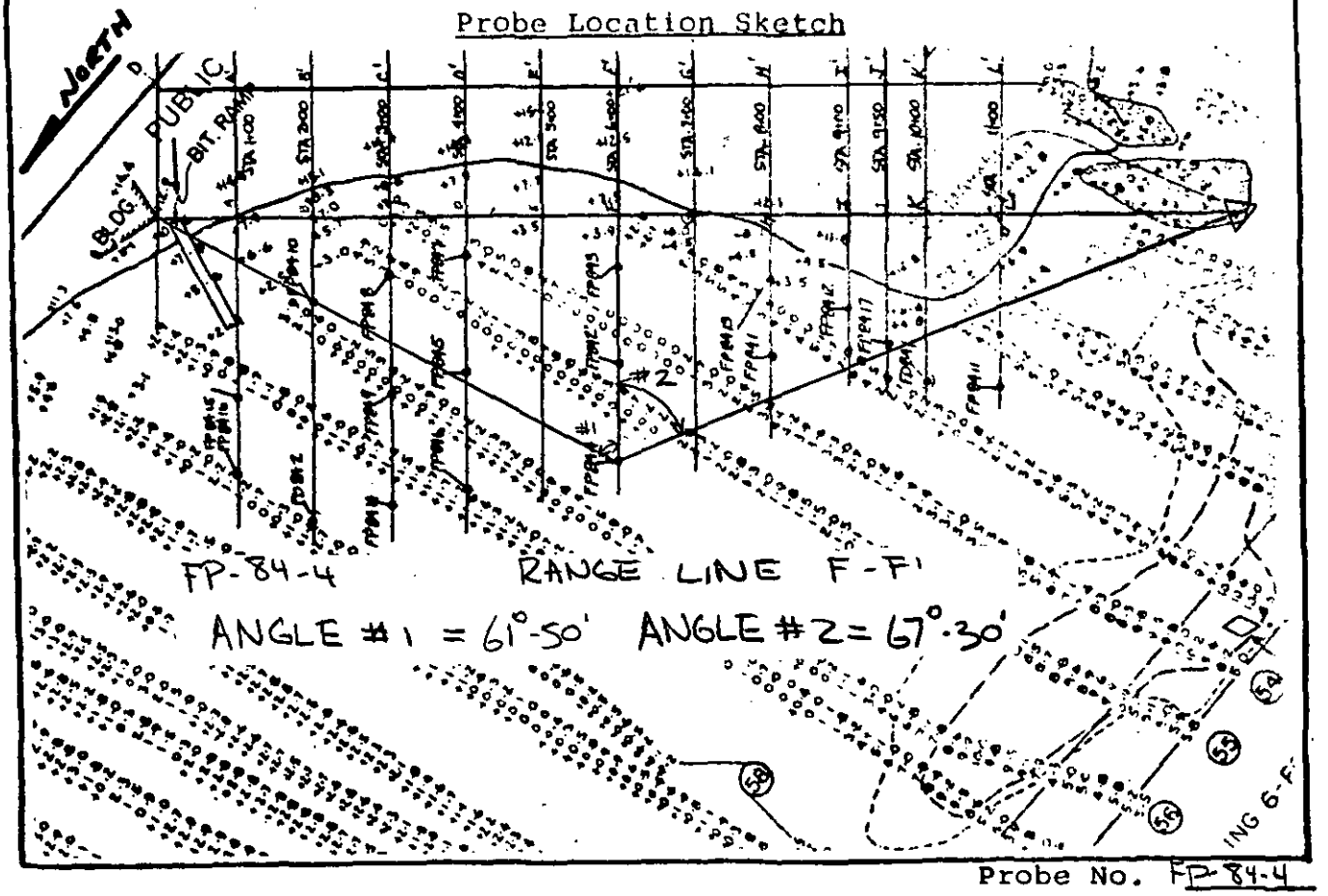
Probe No. FP-84-4

TIDAL OBSERVATIONS

DATE	TIME	DEPTH-BOT OF CASING	DEPTH-BOT OF PROBE	DEPTH TO BOTTOM	ELEVATION OF TIDE	REMARKS
59-84	1548	-	10.0	5.3	5.3	EL TOP OF PROBE
						= 0.0 MLW
						EL BOTT = -10.0
						MLW

Note: Depths are in feet below original ground or mudline.

Probe Location Sketch



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NEW ENGLAND DIVISION

FIELD LOG OF TEST PROBE

Site Pine Point Harbor ME Page 1 of 2 Pages

Probe FP84-5 Desig. P-9 Diam. (Casing) _____

Co-ordinates: N _____ E _____

Elevation Top 0.0 ~~M.S.L.~~ MLW
Total Overburden Drilled 10.0 Feet
Elevation Top of Rock — M.S.L.
Total Rock Drilled N/A Feet
Elevation Bottom -10.0 ~~M.S.L.~~ MLW
Total Depth 10.0 Feet
Core Recovered N/A % No. Boxes _____
Core Recovered N/A Ft: ____ Diam. ____ in.
Soil Samples N/A in. Diam. ____ No.
Soil Samples N/A in. Diam. ____ No.

Hammer Wt. 300 lb
Hammer Drop 18"
Casing Left —
Subsurface Water Data — Page _____
Obs. Well —
Drilled By EASTERN GEOTECHNICAL ASSOC.
Mfg. Des. Drill ACKER
Inspected By: J. Crowther
Classification By: J. Crowther
Classification By: _____

Started 5-9-84
Completed 5-9-84

DEPTH 1" = 2.0	CORE/SAMPLE NO.	SIZE	DEPTH RANGE	BLOWS PER FT. CORE REC'VY	SAMPLING AND CORING OPERATIONS	CLASSIFICATION OF MATERIALS
			0.0 TO		3.0 FT. SINK IN WITH WEIGHT OF HAMMER.	
1.0						
2.0						
3.0						
4.0				4	DROVE "AW" ROD PROBE FROM 0.0 TO 10.0 FT. WITH 300 lb HAMMER.	SILTY SAND (IN RODS) fine, 10-20% n.p. fines dark grey (SM)
5.0				5		
6.0				5		
7.0				4		
8.0				5		
9.0				7		SAND (NTIP) Fine, 5-10% n.p. fines, grey (SP-SM)
10.0			10.0	9	END OF PROBE AT 10.0 FT.	10.0 FT.

GENERAL REMARKS: WATER 6.0 FT DEEP AT 1609 HRS ON 5-9-84

Probe No. FP-84-5

Site: PINE POINT ME

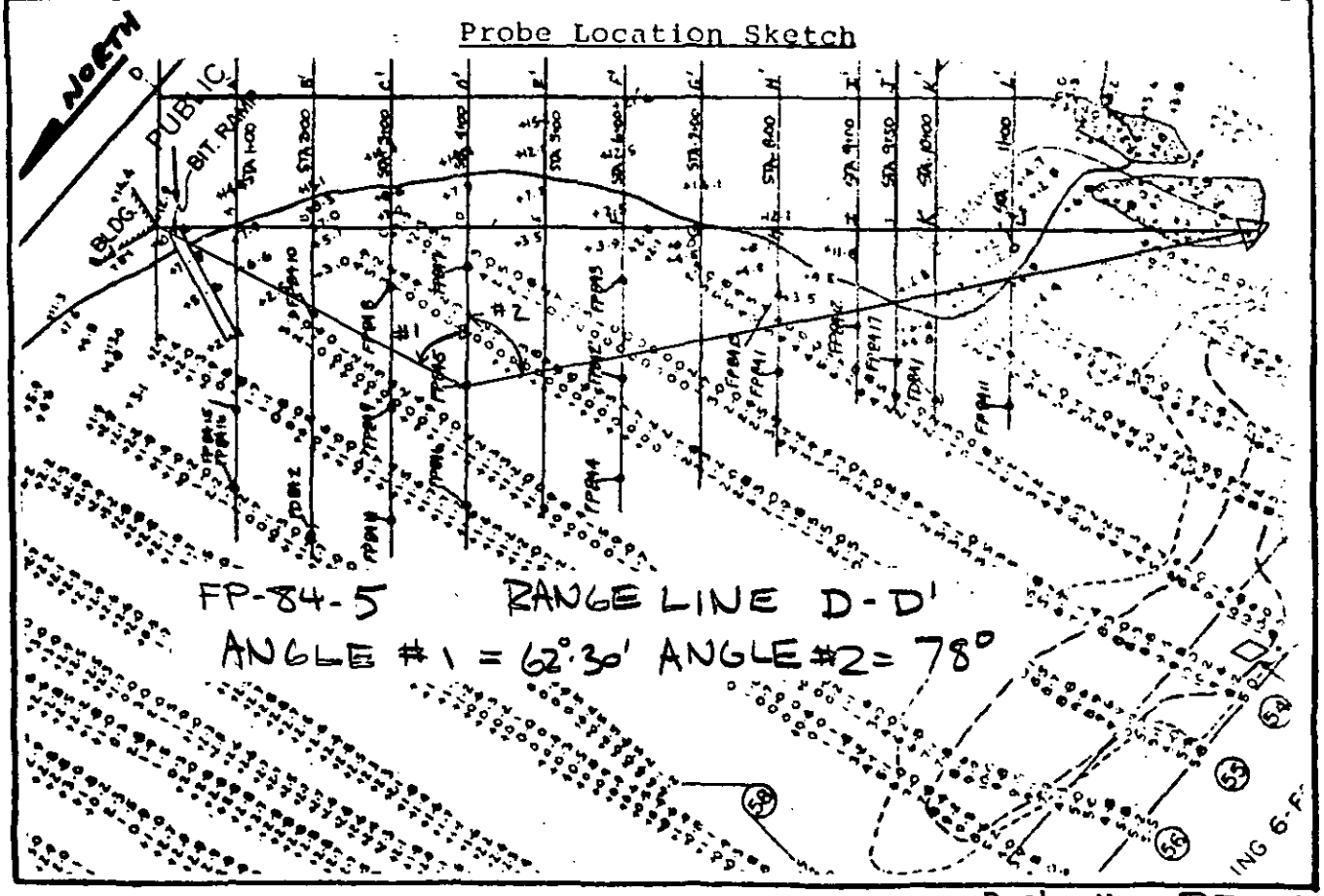
Probe No. FP-84-5

TIDAL OBSERVATIONS

DATE	TIME	DEPTH-BOT OF CASING	DEPTH-BOT OF PROBE	DEPTH TO BOTTOM	ELEVATION OF TIDE	REMARKS
5-9-84	1609	—	10.0	6.0	6.0	EL TOP OF PROBE
						= 0.0 MLW
						EL BOTT = -10.0
						MLW

Note: Depths are in feet below original ground or mudline.

Probe Location Sketch



U. S. ARMY
CORPS OF ENGINEERS
NEW ENGLAND DIVISION

FIELD LOG OF TEST PROBE

Site Pine Point Harbor, ME Page 1 of 3 Pages

Probe FP-84-6 Desig. P-8 Diam. (Casing) _____

Co-ordinates: N _____ E _____

Elevation Top 1.5 ~~M.S.L.~~ MLW
Total Overburden Drilled 12.0 Feet
Elevation Top of Rock – M.S.L.
Total Rock Drilled N/A Feet
Elevation Bottom -10.5 ~~M.S.L.~~ MLW
Total Depth 12.0 Feet
Core Recovered N/A % No. Boxes _____
Core Recovered N/A Ft: ____ Diam. ____ In.
Soil Samples N/A In. Diam. ____ No.
Soil Samples N/A In. Diam. ____ No.

Hammer Wt. 300 lbs.
Hammer Drop 18"
Casing Left –
Subsurface Water Data –
Obs. Well _____
Drilled By EASTERN GEOTECHNICAL ASSOC
Mfg. Des. Drill ACKER
Inspected By: J. Clouter
Classification By: J. Clouter
Classification By: _____

Started 5-9-84
Completed 5-9-84
Page _____

DEPTH 1" = 2.0	CORE/SAMPLE NO.	SIZE	DEPTH RANGE	BLOWS PER FT. / CORE RECV'Y	SAMPLING AND CORING OPERATIONS	CLASSIFICATION OF MATERIALS
			0.0 TO		1.5 FT. SINK IN WITH WEIGHT OF HAMMER	
1.0						
2.0				2		SILTY SAND (IN RODS NEAR TOP), trace 10-20%
				3		
3.0					DROVE "AW" ROD PROBE	
4.0				6	FROM 0.0 TO 12.0 FT WITH 300 lb.	
				6	HAMMER	
5.0						
				5		
6.0						
				7		
7.0						
				5		
8.0						
				9		
9.0						
10.0				8		

GENERAL REMARKS: WATER 5.6 FT. DEEP AT 1645 hrs ON 5-9-84

Probe No. FP-84-6

Site: Pine Point Harbor ME	Probe No. FP-84-6	Page 2 of 3

DEPTH	CORE/SAMPLE NO.	SIZE	DEPTH RANGE	BLOWS PER FT. / CORE RECVY	SAMPLING AND CORING OPERATIONS	CLASSIFICATION OF MATER ALS
1"=2.0						
				10		SAND (IN TIP) fine, 5-10% nonplastic fines, grey (SP-SM)
11.0						
			12.0	12		12.0 FT
12.0					END OF PROBE AT 12.0	

Site: PINE POINT ME

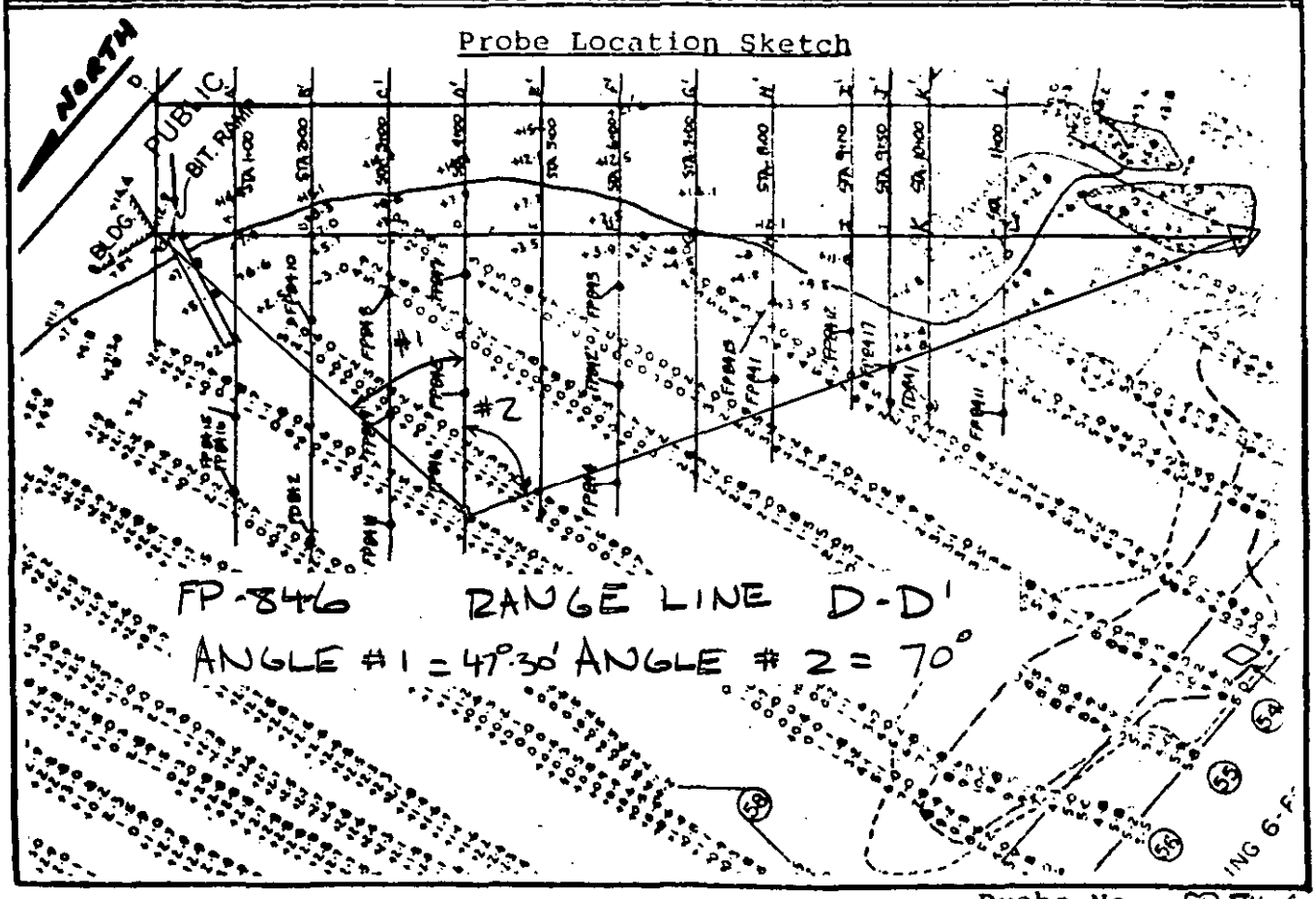
Probe No. FP-84-6

TIDAL OBSERVATIONS

DATE	TIME	DEPTH-BOT OF CASING	DEPTH-BOT OF PROBE	DEPTH TO BOTTOM	ELEVATION OF TIDE	REMARKS
5-9-84	1645	–	12.0	5.6	7.1	EL TOP OF PROBE
						= 1.5 MLW
						EL BOTT. = -10.5
						MLW

Note: Depths are in feet below original ground or mudline.

Probe Location Sketch



U. S. ARMY
CORPS OF ENGINEERS
NEW ENGLAND DIVISION

FIELD LOG OF TEST PROBE

Site Pine Point Harbor ME Page 1 of 2 Pages

Probe FP-84-7 Desig. P-10 Diam. (Casing) –

Co-ordinates: N _____ E _____

Elevation Top -4.7 ~~M.S.L.~~ MLW
Total Overburden Drilled 7.0 Feet
Elevation Top of Rock – M.S.L.
Total Rock Drilled N/A Feet
Elevation Bottom -11.7 ~~M.S.L.~~ MLW
Total Depth 7.0 Feet
Core Recovered N/A % No. Boxes _____
Core Recovered N/A Ft: ____ Diam. ____ In.
Soil Samples N/A In. Diam. ____ No.
Soil Samples N/A In. Diam. ____ No.

Hammer Wt. 300 lbs
Hammer Drop 18"
Casing Left –
Subsurface Water Data – Page _____
Obs. Well –
Drilled By EASTERN GEOTECHNICAL ASSOC
Mfg. Des. Drill ACKER
Inspected By: J. Crouther
Classification By: J. Crouther
Classification By: _____

Started 5-9-84
Completed 5-9-84

DEPTH 1"=2.0	CORE/SAMPLE NO.	SIZE	DEPTH RANGE	BLOWS PER FT. / CORE RECV'Y	SAMPLING AND CORING OPERATIONS	CLASSIFICATION OF MATERIALS
			0.0 TO		3.5 FT. SINK IN WITH WEIGHT OF HAMMER	
1.0						
2.0					DROVE "AW" ROD PROBE FROM 0.0 TO 7.0 FT. WITH 300lb. HAMMER	
3.0						
4.0				2		
				2		
5.0						
				0		
6.0						NO RECOVERY IN TIP OF ROD 7.0 FT.
7.0			7.0	2		
					END OF PROBE AT 7.0 FT	

GENERAL REMARKS: WATER 13.0 FT DEEP AT 1746 hrs. ON 5-9-84

Probe No. FP-84-7

Site: PINE POINT ME

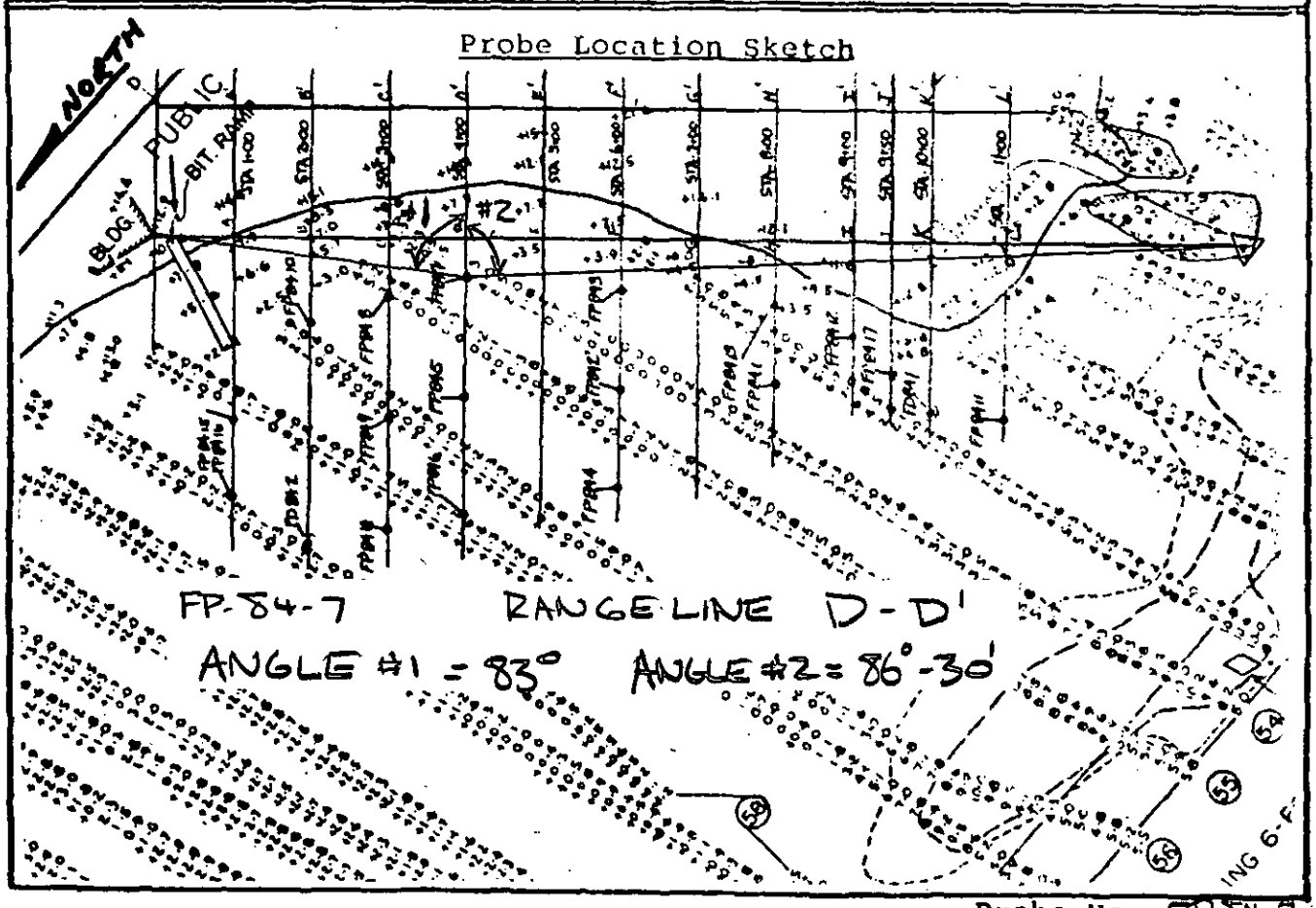
Probe No. FP-84-7

TIDAL OBSERVATIONS

DATE	TIME	DEPTH-BOT OF CASING	DEPTH-BOT OF PROBE	DEPTH TO BOTTOM	ELEVATION OF TIDE	REMARKS
5-9-84	1746	—	7.0	13.0 FT	8.3	EL TOP OF PROBE
						= -4.7 MLW
						EL. BOT = -11.7
						MLW

Note: Depths are in feet below original ground or mudline.

Probe Location Sketch



Probe No. FP-84-7

U. S. ARMY
CORPS OF ENGINEERS
NEW ENGLAND DIVISION

FIELD LOG OF TEST PROBE

Site Pine Point Harbor ME Page 1 of 2 Pages

Probe FP-84-8 Desig. P-7 Diam. (Casing) _____

Co-ordinates: N _____ E _____

Elevation Top	-3.6 ~~M.S.L.~~ MLW	Hammer Wt. 300 lbs	Started 5-10-84
Total Overburden Drilled	8 Feet	Hammer Drop 18"	Completed 5-10-84
Elevation Top of Rock	— M.S.L.	Casing Left —	
Total Rock Drilled	N/A Feet	Subsurface Water Data —	Page _____
Elevation Bottom	-11.6 ~~M.S.L.~~ MLW	Obs. Well —	
Total Depth	8 Feet	Drilled By EASTERN GEOTECHNICAL ASSOC.	
Core Recovered	N/A % No. Boxes _____	Mfg. Des. Drill ACKER	
Core Recovered	N/A Ft: ____ Diam. ____ In.	Inspected By: J. Crowther	
Soil Samples	N/A In. Diam. ____ No.	Classification By: J. Crowther	
Soil Samples	N/A In. Diam. ____ No.	Classification By: _____	

DEPTH 1" = 2.0	CORE/SAMPLE NO.	SIZE	DEPTH RANGE	BLOWS PER FT. CORE REC'VY	SAMPLING AND CORING OPERATIONS	CLASSIFICATION OF MATERIALS
			0.0 TO		3.5 FT. SINK IN WITH WEIGHT OF HAMMER.	
1.0						
2.0						
3.0					DROVE "AW" ROD PROBE FROM 0.0 TO 8.0 FT. WITH 300 lb HAMMER.	SILTY SAND (IN RODS NEAR TOP) fine sand, 10-15% slightly to non plastic fines, dark grey (SM)
4.0				2		
5.0				5		
6.0				3		
7.0				2		SAND (IN TIP) fine sand, less than 5% medium sand, 5-10% non-plastic fines, grey (SP-SM) 8.0 FT.
8.0			8.0	3		
					END OF PROBE AT 8.0 FT	

GENERAL REMARKS: WATER 11.0 FT. DEEP AT 0905 hrs. ON 5-10-84

Probe No. FP-84-8

Site: PINEPOINT ME

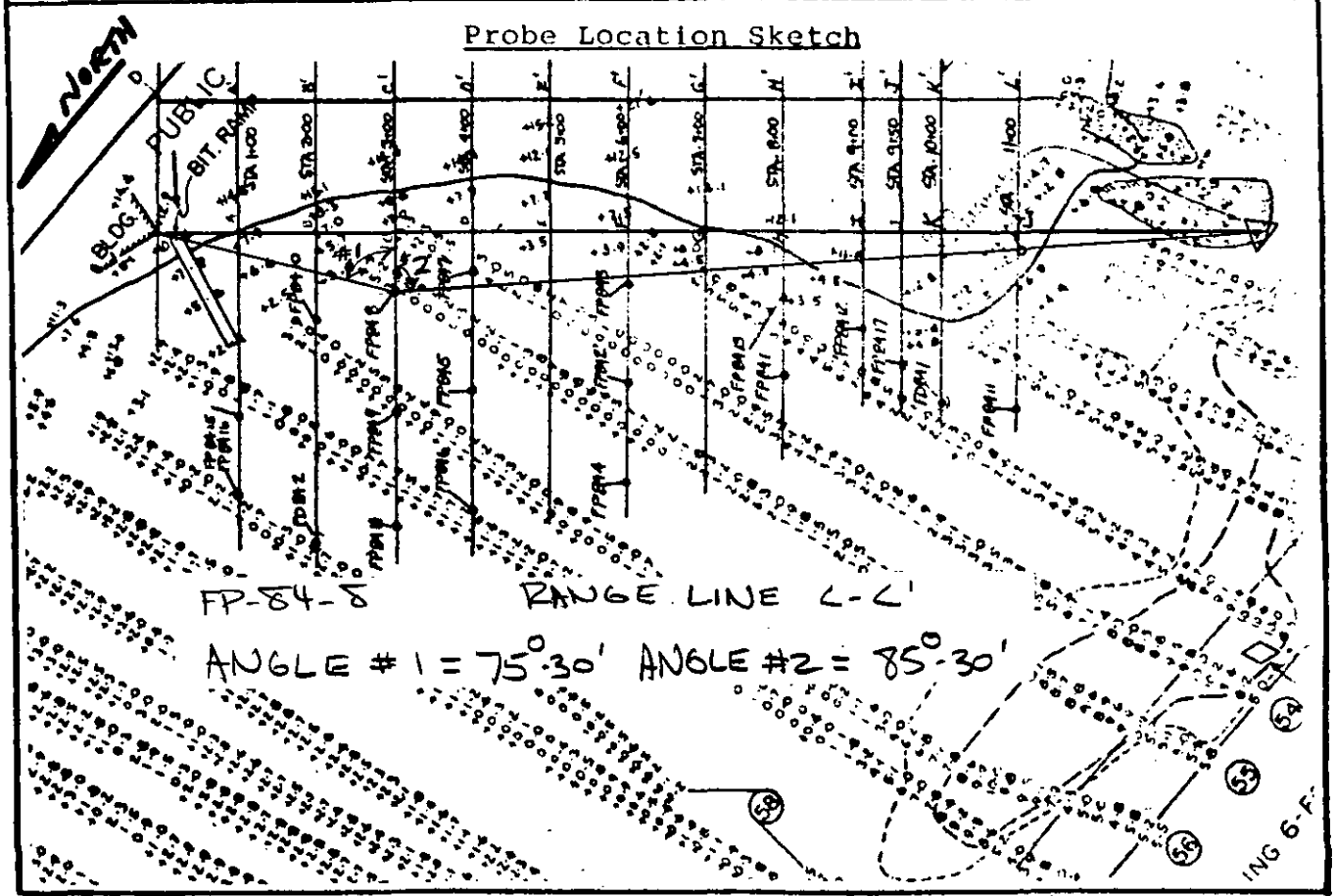
Probe No. FP-84-8

TIDAL OBSERVATIONS

DATE	TIME	DEPTH-BOT OF CASING	DEPTH-BOT OF PROBE	DEPTH TO BOTTOM	ELEVATION OF TIDE	REMARKS
5-10-84	0905	—	8.0	11.0	7.4	EL TOP OF PROBE
						= -3.6 MLW
						EL BOTT = -11.6
						MLW

Note: Depths are in feet below original ground or mudline.

Probe Location Sketch



U. S. ARMY
CORPS OF ENGINEERS
NEW ENGLAND DIVISION

FIELD LOG OF TEST PROBE

Site Pine Point Harbor ME Page 1 of 2 Pages

Probe FP-84-9 Desig. P-G Diam. (Casing) _____

Co-ordinates: N _____ E _____

Elevation Top -0.15 ~~M.S.L.~~ MLW
Total Overburden Drilled 10.0 Feet
Elevation Top of Rock — M.S.L.
Total Rock Drilled N/A Feet
Elevation Bottom -10.15 ~~M.S.L.~~ MLW
Total Depth 10.0 Feet
Core Recovered N/A % No. Boxes _____
Core Recovered N/A Ft: _____ Diam. _____ In.
Soil Samples N/A In. Diam. _____ No.
Soil Samples N/A In. Diam. _____ No.

Hammer Wt. 300 lbs.
Hammer Drop 18"
Casing Left —
Subsurface Water Data — Page _____
Obs. Well —
Drilled By EASTERN GEOTECHNICAL ASSOC.
Mfg. Des. Drill ACKER
Inspected By: J. Coughlin
Classification By: J. Coughlin
Classification By: _____

Started 5-10-84
Completed 5-10-84

DEPTH 1"=2.0	CORE/SAMPLE NO.	SIZE	DEPTH RANGE	BLOWS PER FT. / CORE RECV'Y	SAMPLING AND CORING OPERATIONS	CLASSIFICATION OF MATERIALS
			0.0 TO		20 FT. SINK IN WITH WEIGHT OF HAMMER.	
1.0						
2.0						
				3	DROVE "AW" ROD PROBE FROM 0.0 TO 10.0 FT. WITH 300 lb. HAMMER.	
3.0						SILTY SAND (IN RODS NEAR TOP), fine sand, 10-15% slightly to non plastic fines, dark grey (SM)
				4		
4.0						
				3		
5.0						
				5		
6.0						
				4		
7.0						
				5		
8.0						
				32		SAND (INTIP), fine sand 5-10% non plastic fines, grey (SP-SM)
9.0						
				32		
10.0			10.0		END OF PROBE AT 10.0 FT.	10.0 FT

GENERAL REMARKS: WATER 5.25 FT. DEEP AT 1015 hrs ON 5-10-84

Probe No. FP-84-9

Site: PINE POINT ME

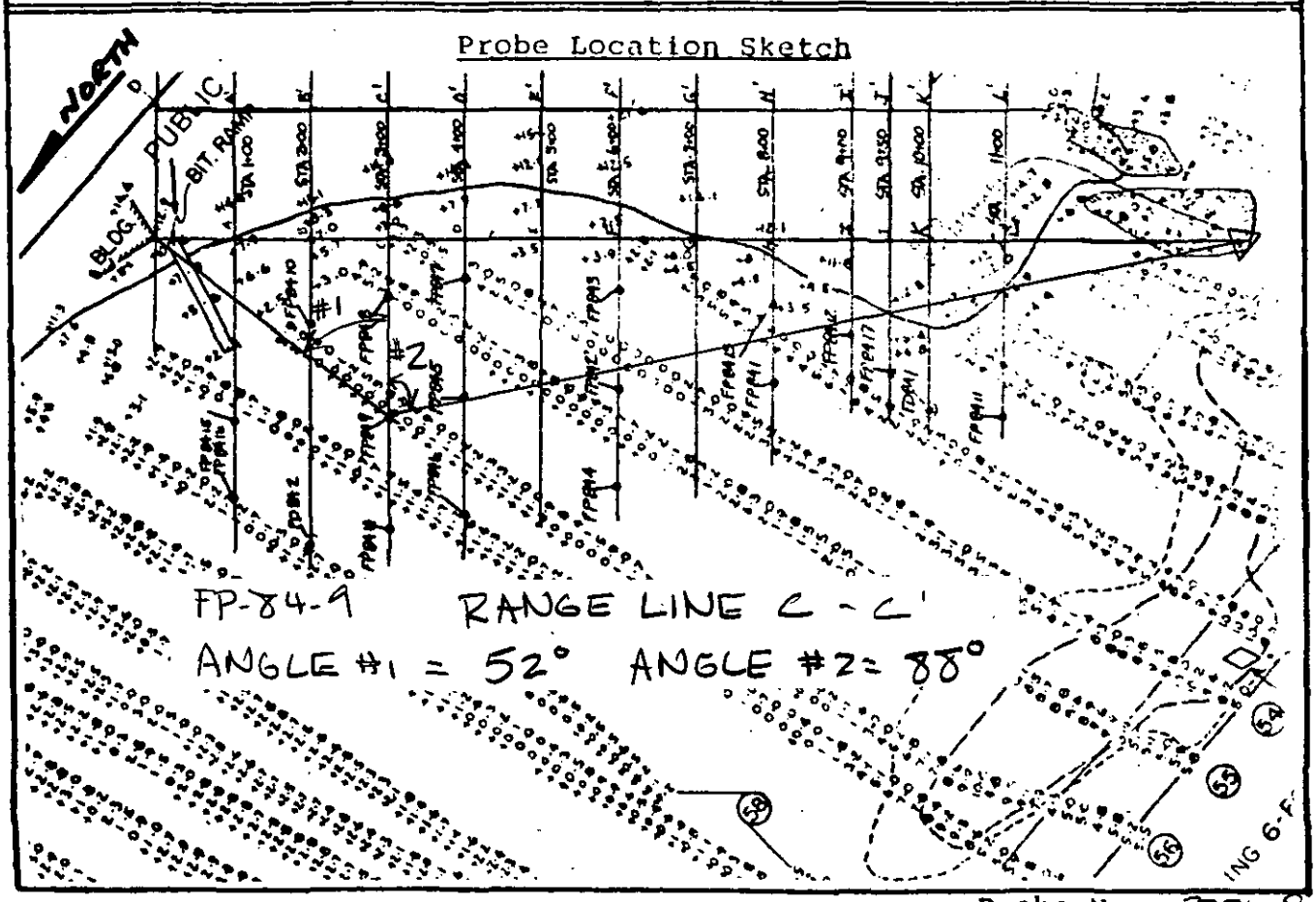
Probe No. FP-84-9

TIDAL OBSERVATIONS

DATE	TIME	DEPTH-BOT OF CASING	DEPTH-BOT OF PROBE	DEPTH TO BOTTOM	ELEVATION OF TIDE	REMARKS
5-10-84	1015	–	10.0	5.25	5.1	EL TOP OF PROBE
						= -0.15 MLW
						EL BOT = -10.15
						MLW

Note: Depths are in feet below original ground or mudline.

Probe Location Sketch



Probe No. FP-84-9

U. S. ARMY
CORPS OF ENGINEERS
NEW ENGLAND DIVISION

FIELD LOG OF TEST PROBE

Site Pine Point Harbor ME Page 1 of 2 Pages

Probe FP-84-10 Desig. P-4 Diam. (Casing) _____

Co-ordinates: N _____ E _____

Elevation Top -5.4 ~~M.S.L.~~ MLW
Total Overburden Drilled 8.0 Feet
Elevation Top of Rock — M.S.L.
Total Rock Drilled N/A Feet
Elevation Bottom -13.4 M.S.L.
Total Depth 8.0 Feet
Core Recovered N/A % No. Boxes _____
Core Recovered N/A Ft: ____ Diam. ____ In.
Soil Samples N/A In. Diam. ____ No.
Soil Samples N/A In. Diam. ____ No.

Hammer Wt. 300 lbs
Hammer Drop 18"
Casing Left —
Subsurface Water Data — Page _____
Obs. Well —
Drilled By EASTERN GEOTECHNICAL ASSOC.
Mfg. Des. Drill ACKER
Inspected By: J. Crowther
Classification By: J. Crowther
Classification By: _____

Started 5-10-84
Completed 5-10-84

DEPTH 1"=2.0'	CORE/SAMPLE NO.	SIZE	DEPTH RANGE	BLOWS PER FT. / CORE REC'VY	SAMPLING AND CORING OPERATIONS	CLASSIFICATION OF MATERIALS
			0.0 To		6" SINK IN WITH WEIGHT OF HAMMER	
1.0				1		
				1		
2.0						
				1	DROVE "AW" ROD PROBE FROM 0.0 TO 10.0 FT. WITH 300 lb HAMMER.	
3.0						
				1		
4.0						
				3		
5.0						
				6		
6.0						
				3		SILTY SAND (IN TIP) fine sand; 10-15% slightly to non plastic fines, dark grey (SM)
7.0						
				4		
8.0			1.0			8.0
					END OF PROBE AT 8.0 FT	

GENERAL REMARKS: WATER 8.9 FT. DEEP AT 1055 hrs. ON 5-10-84

Probe No. FP-84-10

Site: PINE POINT ME

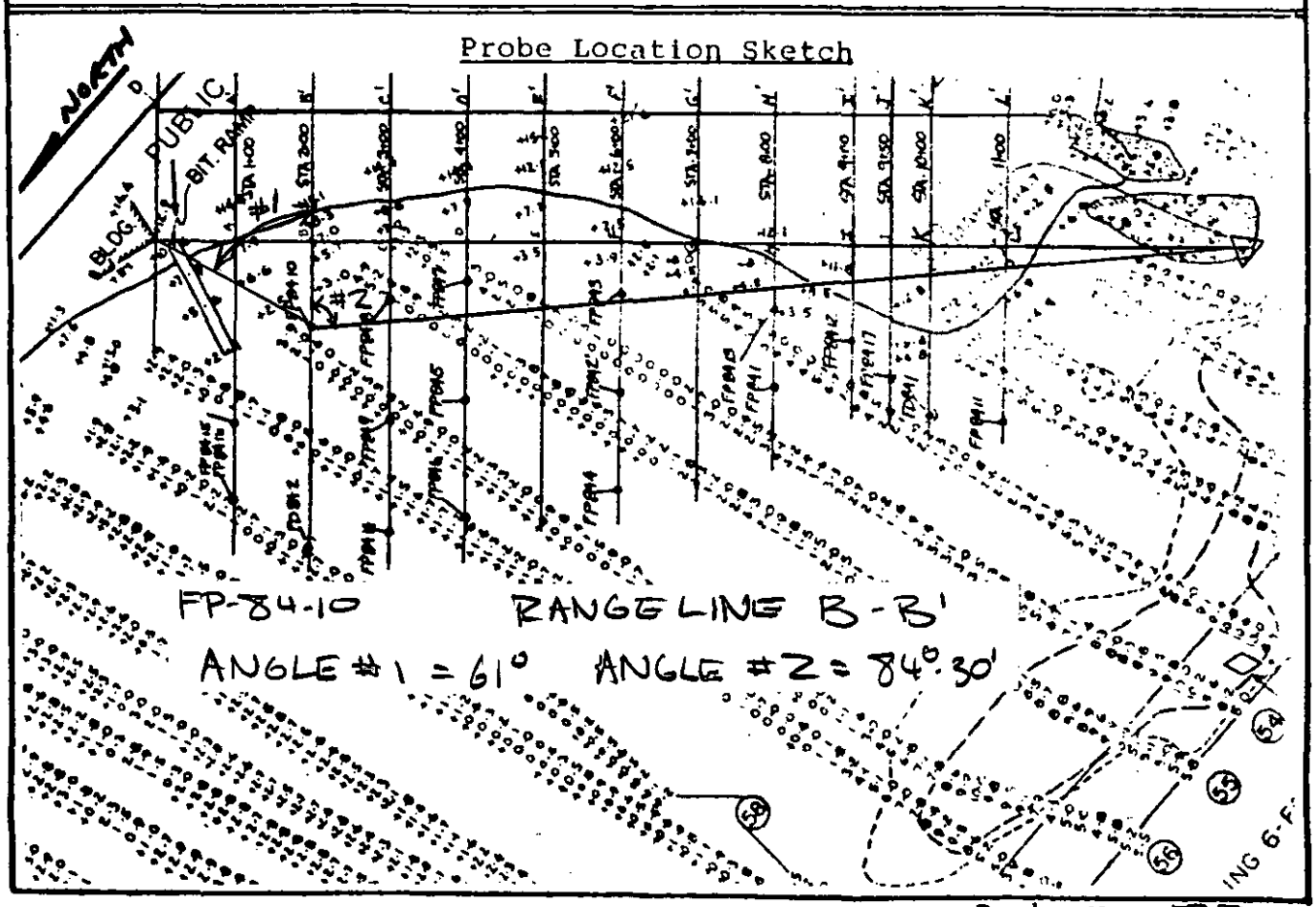
Probe No. FP-84-10

TIDAL OBSERVATIONS

DATE	TIME	DEPTH-BOT OF CASING	DEPTH-BOT OF PROBE	DEPTH TO BOTTOM	ELEVATION OF TIDE	REMARKS
5-10-84	1055	—	8.0	8.9	3.5	EL TOP OF PROBE
						= -5.4 MLW
						EL BOTT. = 73.4
						MLW

Note: Depths are in feet below original ground or mudline.

Probe Location Sketch



U. S. ARMY
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NEW ENGLAND DIVISION

FIELD LOG OF TEST PROBE

Site Pine Point Harbor ME Page 1 of 2 Pages

Probe FP-84-11 Desig. P-24 Diam. (Casing) _____

Co-ordinates: N _____ E _____

Elevation Top -4.8 ~~M.S.L.~~ MLW
Total Overburden Drilled 6.0 Feet
Elevation Top of Rock — M.S.L.
Total Rock Drilled N/A Feet
Elevation Bottom -10.8 M.S.L.
Total Depth 6.0 Feet
Core Recovered N/A % No. Boxes _____
Core Recovered N/A Ft: ____ Diam. ____ In.
Soil Samples N/A In. Diam. ____ No.
Soil Samples N/A In. Diam. ____ No.

Hammer Wt. 300 lbs
Hammer Drop 18"
Casing Left —
Subsurface Water Data — Page _____
Obs. Well —
Drilled By EASTERN GEOTECHNICAL ASSOC.
Mfg. Des. Drill ACKER
Inspected By: J. Crowther
Classification By: J. Crowther
Classification By: _____

Started 5-10-84
Completed 5-10-84

DEPTH 1"=2.0	CORE/SAMPLE NO.	SIZE	DEPTH RANGE	BLOWS PER FT. / CORE REC'VY	SAMPLING AND CORING OPERATIONS	CLASSIFICATION OF MATERIALS
0.0			0.0 TO 6.0	8	DROVE "AW" ROD PROBE FROM 0.0 TO 6.0 FT. WITH 300 lb. HAMMER	SILTY SAND (INTIP) coarse to fine sand, mostly fine, 5-10% gravel, grey (SM) POSS. GLACIAL TILL 6.0 FT.
1.0				39		
2.0				8		
3.0				15		
4.0				30		
5.0				19		
6.0					END OF PROBE AT 6.0 FT.	

GENERAL REMARKS: WATER 5.0 FT. DEEP AT 1305 hrs ON 5-10-84

Probe No. FP-84-11

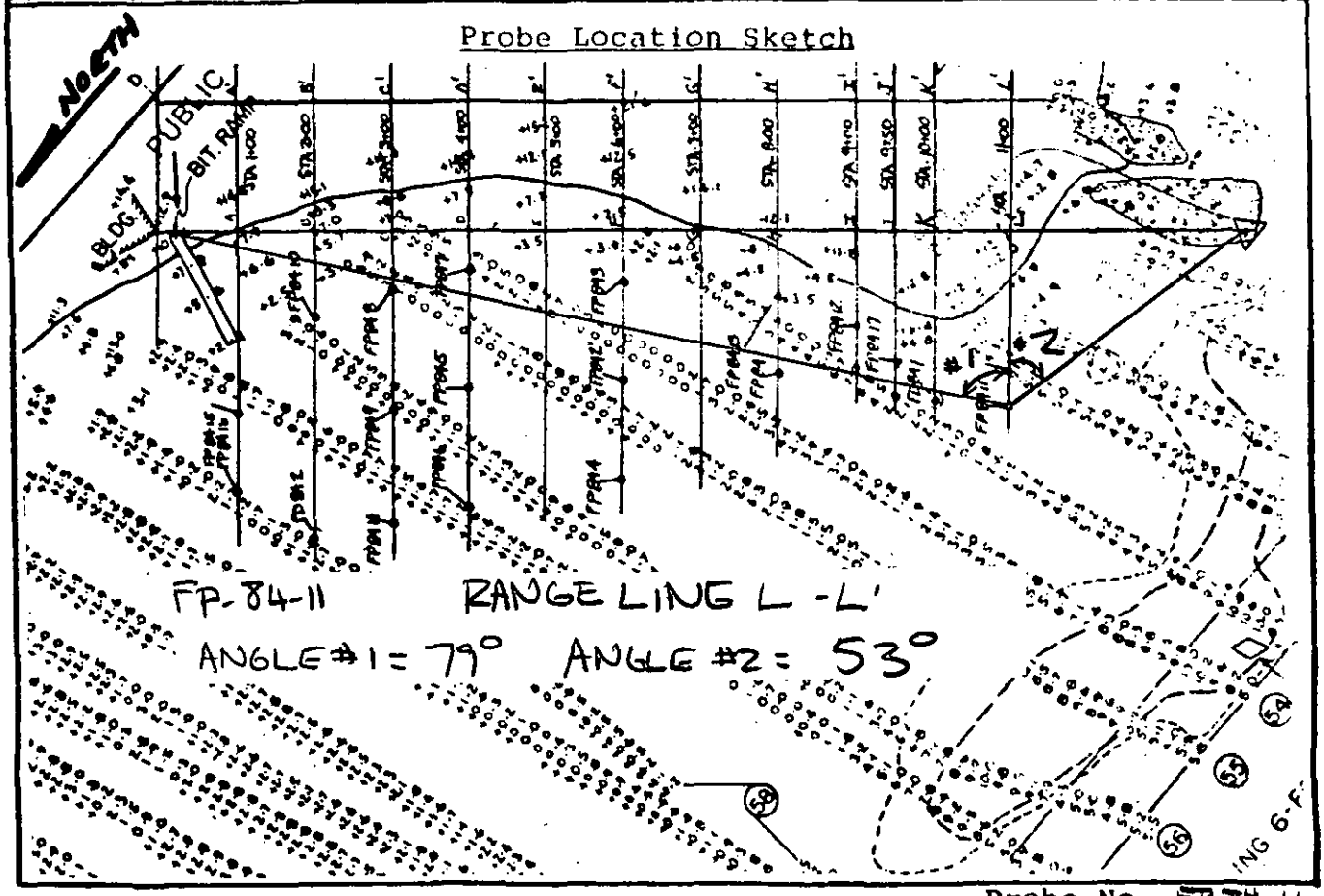
Site: PINE POINT ME
Probe No. FP-84-11

TIDAL OBSERVATIONS

DATE	TIME	DEPTH-BOT OF CASING	DEPTH-BOT OF PROBE	DEPTH TO BOTTOM	ELEVATION OF TIDE	REMARKS
5-10-84	1302	—	6.0	5.0	0.2	EL TOP OF PROBE
						= -4.8 MLW
						EL BOTT = -10.8
						MLW

Note: Depths are in feet below original ground or mudline.

Probe Location Sketch



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NEW ENGLAND DIVISION

FIELD LOG OF TEST PROBE

Site Pine Point Harbor ME Page 1 of 3 Pages

Probe FP-84-12 Desig. P-22 Diam. (Casing) _____

Co-ordinates: N _____ E _____

Elevation Top 3.9 ~~M.S.L.~~ NLW
Total Overburden Drilled 14.0 Feet
Elevation Top of Rock — M.S.L.
Total Rock Drilled N/A Feet
Elevation Bottom -10.1 ~~M.S.L.~~ NLW
Total Depth 14.0 Feet
Core Recovered N/A % No. Boxes _____
Core Recovered N/A Ft: ____ Diam. ____ In.
Soil Samples N/A In. Diam. ____ No.
Soil Samples N/A In. Diam. ____ No.

Hammer Wt. 300 lbs
Hammer Drop 18"
Casing Left —
Subsurface Water Data — Page _____
Obs. Well —
Drilled By EASTERN GEOTECHNICAL ASSOC.
Mfg. Des. Drill ACKER
Inspected By: J. Crawford
Classification By: J. Crawford
Classification By: _____

Started 5-11-84
Completed 5-11-84

DEPTH 1"=2.0	CORE/SAMPLE NO.	SIZE	DEPTH RANGE	BLOWS PER FT. / CORE REC'VY	SAMPLING AND CORING OPERATIONS	CLASSIFICATION OF MATERIALS
			0.0 TO		1.0 FT SINKIN WITH WEIGHT OF HAMMER	
1.0				18		
2.0				12	DROVE "AW" ROD PROBE FROM 0.0 TO 14.0 FT WITH 300 lb HAMMER.	
3.0				16		
4.0				18		
5.0				21		SAND (IN RODS), fine sand, 5-10% non plastic fines, light brown (SP-SM)
6.0				19		
7.0				21		
8.0				25		
9.0				23		
10.0						

GENERAL REMARKS: WATER 5.0 FT. DEEP AT 0930 hrs ON 5-11-84

Probe No. FP-84-12

Site: Pine Point Harbor ME	Probe No. FP-84-12	Page 2 of 3

DEPTH	CORE/SAMPLE NO.	SIZE	DEPTH RANGE	BLOWS PER FT. / CORE RECVY	SAMPLING AND CORING OPERATIONS	CLASSIFICATION OF MATER ALS
10.0				17		
11.0				18		
12.0				17		SAND (INTIP) fine sand, 5-10% non plastic fines light grey (SP-SM)
13.0				23		
14.0			14.0		END OF PROBE AT 14.0 FT	14.0

Site: PINE POINT ME

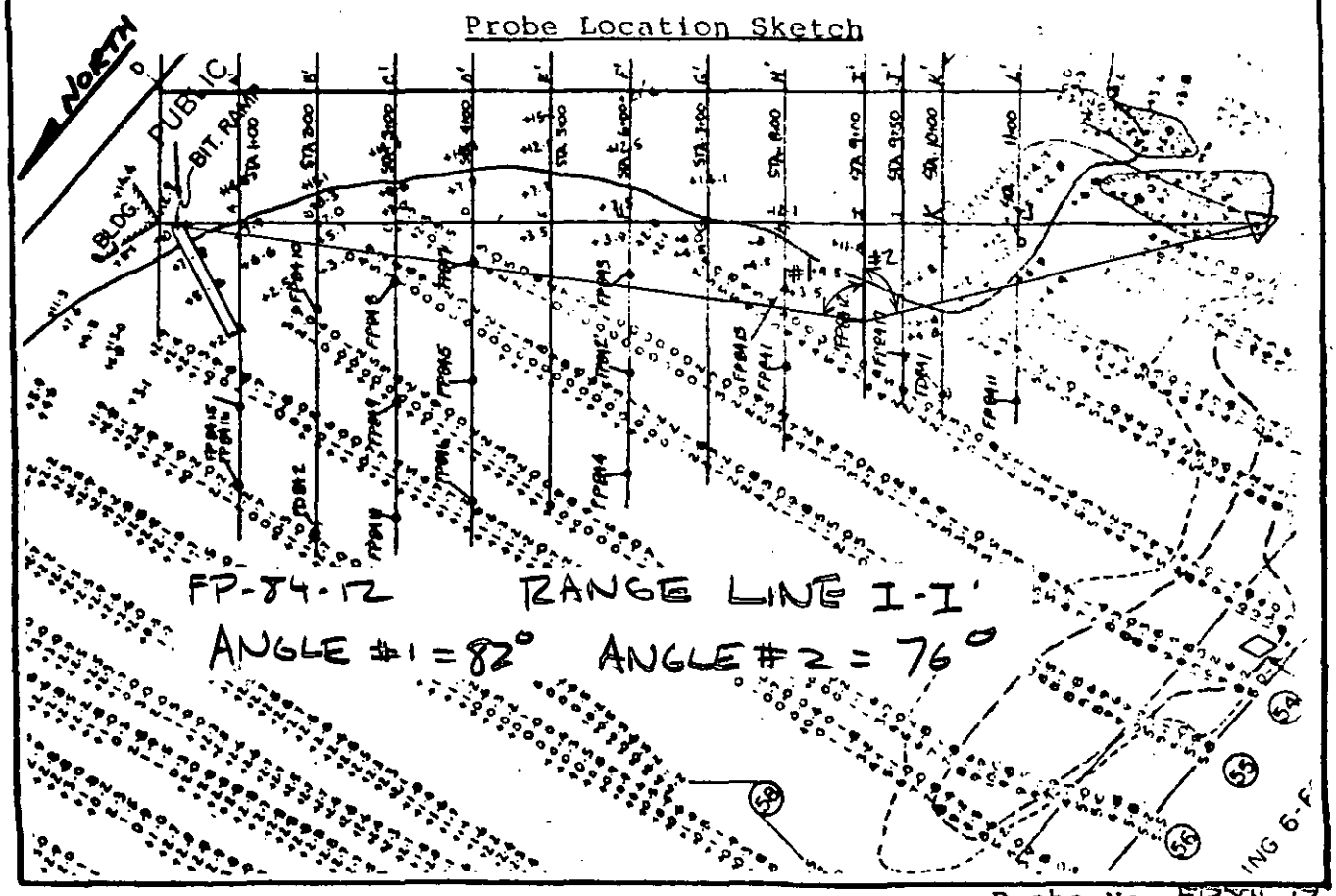
Probe No. FP-84-12

TIDAL OBSERVATIONS

DATE	TIME	DEPTH-BOT OF CASING	DEPTH-BOT OF PROBE	DEPTH TO BOTTOM	ELEVATION OF TIDE	REMARKS
5-11-84	0930	—	14.0	5.0	8.9	EL TOP OF PROBE = 3.9 MLW
						EL BOTT = -10.1 MLW

Note: Depths are in feet below original ground or mudline.

Probe Location Sketch



U. S. ARMY
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NEW ENGLAND DIVISION

FIELD LOG OF TEST PROBE

Site Pine Point Harbor, ME Page 1 of 3 Pages

Probe FP-84-13 Desig. P-21 Diam. (Casing) _____

Co-ordinates: N _____ E _____

Elevation Top 3.9 ~~M.S.L.~~ MLW Hammer Wt. 300 lbs Started 5-11-84

Total Overburden Drilled 14.0 Feet Hammer Drop 18" Completed 5-11-84

Elevation Top of Rock — M.S.L. Casing Left —

Total Rock Drilled N/A Feet Subsurface Water Data — Page _____

Elevation Bottom -10.1 ~~M.S.L.~~ MLW Obs. Well —

Total Depth 14.0 Feet Drilled By EASTERN GEOTECHNICAL ASSOC.

Core Recovered N/A % No. Boxes _____ Mfg. Des. Drill ACKER

Core Recovered N/A Ft: ____ Diam. ____ In. Inspected By: J. Crowther

Soil Samples N/A In. Diam. ____ No. Classification By: J. Crowther

Soil Samples N/A In. Diam. ____ No. Classification By: _____

DEPTH 1"=2.0	CORE/SAMPLE NO.	SIZE	DEPTH RANGE	BLOWS PER FT. / CORE REC'VY	SAMPLING AND CORING OPERATIONS	CLASSIFICATION OF MATERIALS
			0.0 TO		1.5 FT. SINK IN WITH WEIGHT OF HAMMER.	
1.0						
2.0				2		
3.0				10	DROVE "AW" ROD PROBE FROM 0.0 TO 14.0 FT WITH 300 lb HAMMER.	
4.0				14		SAND (IN RODS) fine sand, 5-10% non plastic fines, grey (SP-SM)
5.0				18		
6.0				19		
7.0				19		
8.0				12		
9.0				11		
10.0				9		

GENERAL REMARKS: WATER 3.5 FT. DEEP AT 1034 HRS. ON 5-11-84

Probe No. FP-84-13

Site: Pine Point Harbor ME	Probe No. FP-84-13	Page 2 of 3

DEPTH	CORE/SAMPLE NO.	SIZE	DEPTH RANGE	BLOWS PER FT. / CORE RECVY	SAMPLING AND CORING OPERATIONS	CLASSIFICATION OF MATER ALS
1" = 2.0						
11.0				14		SAND (INTIP) fine sand, 5-10% non plastic fines, grey (SP-SM)
12.0				24		
13.0				16		
14.0			14.0	17		

Probe No. FP-84-13

Site: PINEPOINT ME

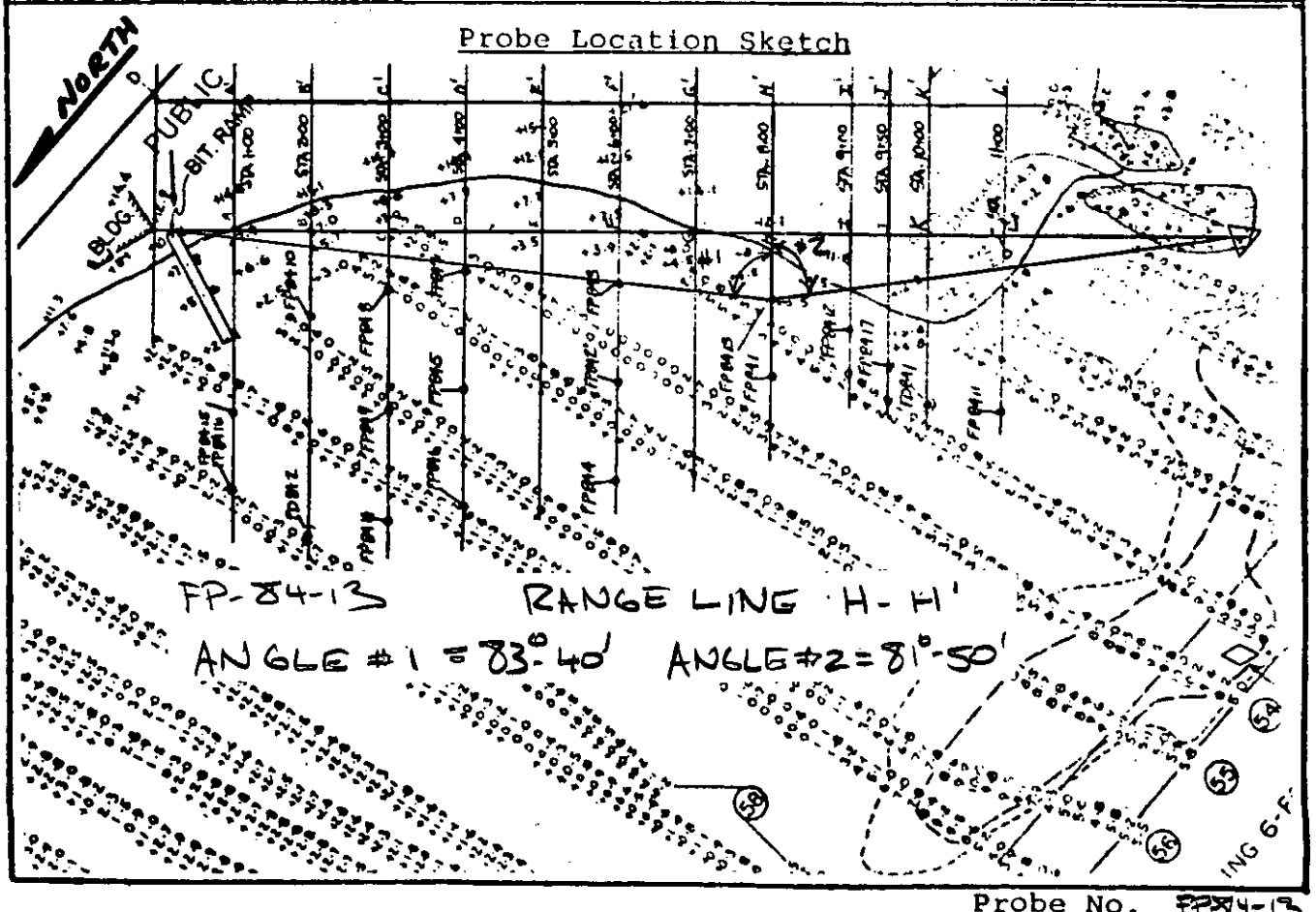
Probe No. FP-84-13

TIDAL OBSERVATIONS

DATE	TIME	DEPTH-BOT OF CASING	DEPTH-BOT OF PROBE	DEPTH TO BOTTOM	ELEVATION OF TIDE	REMARKS
5-11-84	1034	–	14.0	3.5	7.4	EL TOP OF PROBE
						= 3.9 MLW
						EL. BOTT = -10.1
						MLW

Note: Depths are in feet below original ground or mudline.

Probe Location Sketch



U. S. ARMY
CORPS OF ENGINEERS
NEW ENGLAND DIVISION

FIELD LOG OF TEST PROBE

Site Pine Point Harbor ME Page 1 of 3 Pages

Probe FP-84-14 Desig. P-5 Diam. (Casing) _____

Co-ordinates: N _____ E _____

Elevation Top 2.0 ~~M.S.L.~~ MLW
Total Overburden Drilled 12.0 Feet
Elevation Top of Rock — M.S.L.
Total Rock Drilled N/A Feet
Elevation Bottom -10.0 ~~M.S.L.~~ MLW
Total Depth 12.0 Feet
Core Recovered N/A % No. Boxes _____
Core Recovered N/A Ft: ____ Diam. ____ In.
Soil Samples N/A In. Diam. ____ No.
Soil Samples N/A In. Diam. ____ No.

Hammer Wt. 300 lbs.
Hammer Drop 18"
Casing Left —
Subsurface Water Data — Page _____
Obs. Well _____
Drilled By EASTERN GEOTECHNICAL ASSOC.
Mfg. Des. Drill ACKER
Inspected By: J. Crowther
Classification By: J. Crowther
Classification By: _____

Started 5-11-84
Completed 5-11-84

DEPTH	CORE/SAMPLE NO.	SIZE	DEPTH RANGE	BLOWS PER FT. / CORE REC'VY	SAMPLING AND CORING OPERATIONS	CLASSIFICATION OF MATERIALS
1"=2.0					1.5 FT. SINK IN WITH WEIGHT OF HAMMER	
10						
2.0				2		
				4		
3.0				2	DROVE "AW" ROD PROBE FROM 0.0 TO 12.0 FT. WITH 300 lb. HAMMER	
4.0				2		SILTY SAND, fine sand, 10-15% slightly to non plastic fines, dark grey (SM)
5.0				7		
6.0				5		
7.0				6		
8.0				6		
9.0				6		
10.0						

GENERAL REMARKS: WATER 4.3 FT. DEEP AT 1105 hrs ON 5-11-84

Probe No. FP-84-14

Site: Pine Point Harbor ME	Probe No. FP-84-14	Page 2 of 3

DEPTH	CORE/SAMPLE NO.	SIZE	DEPTH RANGE	BLOWS PER FT. / CORE RECVY	SAMPLING AND CORING OPERATIONS	CLASSIFICATION OF MATERIALS
10.0				6		SILTY SAND, fine sand 10-15% slightly to non plastic fines, dark grey (SM)
11.0				6		
12.0					END OF PROBE AT 12.0 FT	12.0

Site: PINE POINT ME

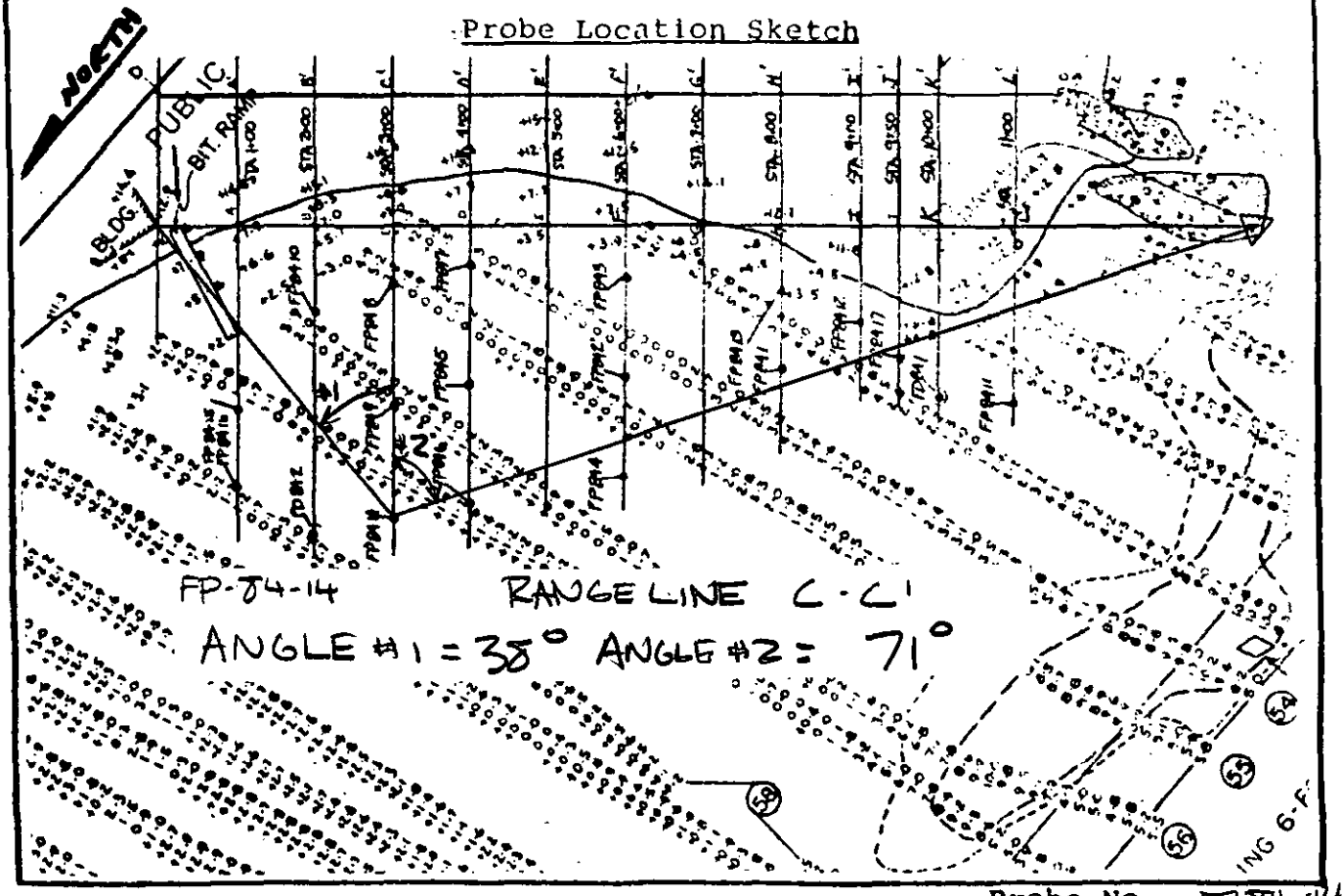
Probe No. FP-84-14

TIDAL OBSERVATIONS

DATE	TIME	DEPTH-BOT OF CASING	DEPTH-BOT OF PROBE	DEPTH TO BOTTOM	ELEVATION OF TIDE	REMARKS
5-11-84	1105	—	12.0	4.3	6.3	EL TOP OF PROBE
						= 2.0 MLW
						EL BOTT =
						-10.0 MLW

Note: Depths are in feet below original ground or mudline.

Probe Location Sketch



U. S. ARMY
CORPS OF ENGINEERS
NEW ENGLAND DIVISION

FIELD LOG OF TEST PROBE

Site Pine Point Harbor ME Page 1 of 2 Pages

Probe FP-84-15 Desig. P-2 Diam. (Casing) _____

Co-ordinates: N _____ E _____

Elevation Top -1.0 ~~M.S.L.~~ MLW
Total Overburden Drilled 9.0 Feet
Elevation Top of Rock — M.S.L.
Total Rock Drilled N/A Feet
Elevation Bottom -10.0 ~~M.S.L.~~ MLW
Total Depth 9.0 Feet
Core Recovered N/A % No. Boxes _____
Core Recovered N/A Ft: _____ Diam. _____ In.
Soil Samples N/A In. Diam. _____ No.
Soil Samples N/A In. Diam. _____ No.

Hammer Wt. 300 lbs
Hammer Drop 15"
Casing Left —
Subsurface Water Data — Page _____
Obs. Well —
Drilled By EASTERN GEOTECHNICAL ASSOC.
Mfg. Des. Drill ACKER
Inspected By: J. Crowther
Classification By: J. Crowther
Classification By: _____

Started 5-11-84
Completed 5-11-84

DEPTH 1"=2.0	CORE/SAMPLE NO.	SIZE	DEPTH RANGE	BLOWS PER FT. / CORE RECV'Y	SAMPLING AND CORING OPERATIONS	CLASSIFICATION OF MATERIALS
					2.75 FT. SINK IN WITH WEIGHT OF HAMMER	
1.0						
2.0						
3.0				1	DROVE "AW" ROD PROBE FROM 0.0 TO 9.0 FT WITH 300 lb HAMMER	SILTY SAND (IN RODS NEAR TOP) very fine sand, 10-20% slightly plastic fines, dark grey (SM)
				2		
4.0					4.0 FT.	trace Min shells
5.0				1		
					5.5 FT.	
6.0				0		
7.0					7.0 FT.	
				4		
8.0				5		SAND (NTIP) fine sand, 5-10% n.p. fines grey (SM)
9.0					END OF PROBE AT 9.0 FT	

GENERAL REMARKS: WATER 6.2 FT. DEEP AT 1133 hrs ON 5-11-84

Probe No. FP-84-15

Site: PINE POINT ME

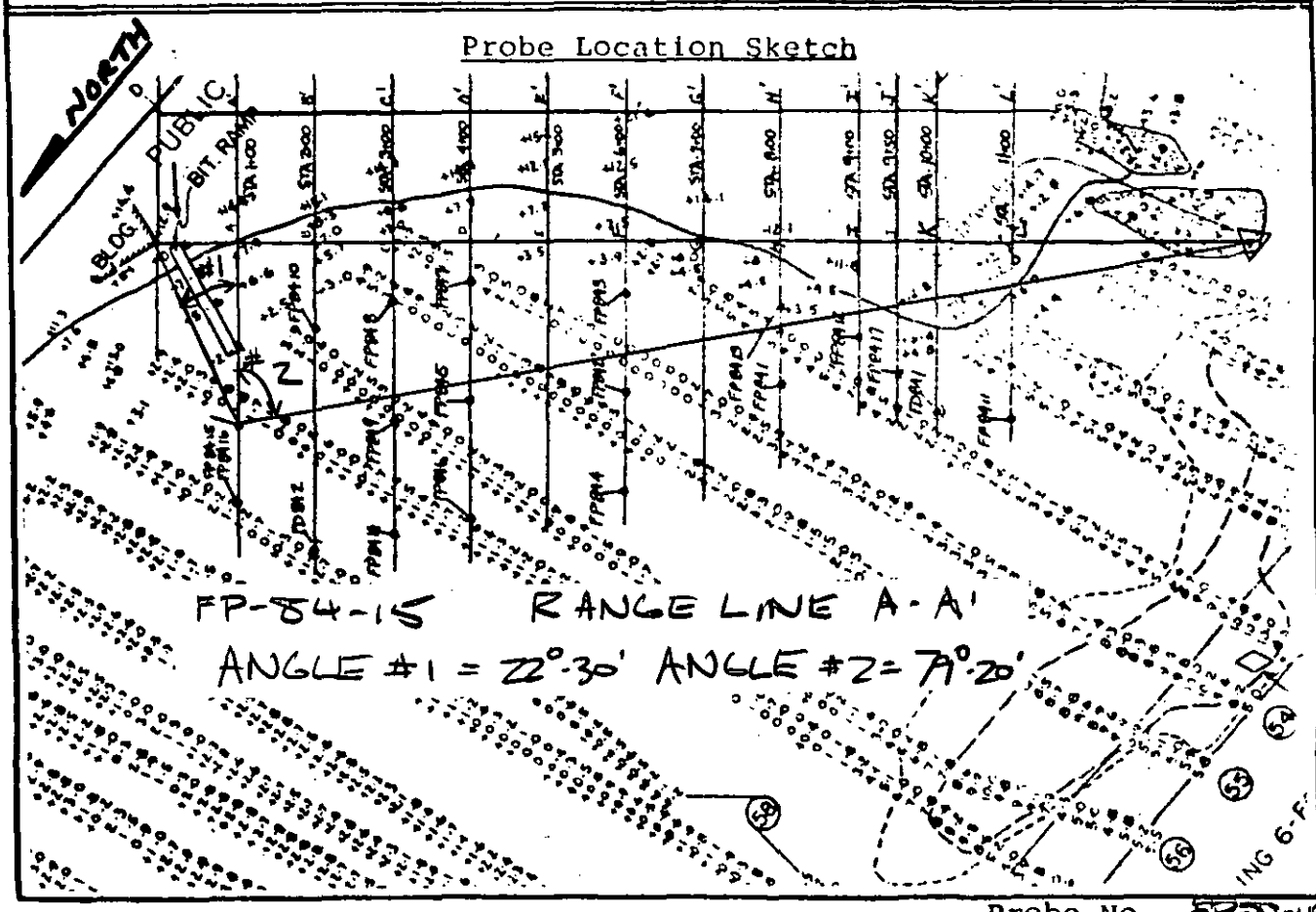
Probe No. FP-84-15

TIDAL OBSERVATIONS

DATE	TIME	DEPTH-BOT OF CASING	DEPTH-BOT OF PROBE	DEPTH TO BOTTOM	ELEVATION OF TIDE	REMARKS
5-11-84	1133	–	9.0	6.2	5.2	EL TOP OF PROBE
						= -1.0 MLW
						EL BOT = -10.0
						MLW

Note: Depths are in feet below original ground or mudline.

Probe Location Sketch



Probe No. FP-84-15

U. S. ARMY
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NEW ENGLAND DIVISION

FIELD LOG OF TEST PROBE

Site Pine Point Harbor ME Page 1 of 2 Pages

Probe FP-84-16 Desig. P-1 Diam. (Casing) _____

Co-ordinates: N _____ E _____

Elevation Top	-0.9 MLW ~~M.S.L.~~	Hammer Wt. 300 lbs	Started 5-11-84
Total Overburden Drilled	9 Feet	Hammer Drop 18"	Completed 5-11-84
Elevation Top of Rock	— M.S.L.	Casing Left —	
Total Rock Drilled	N/A Feet	Subsurface Water Data	_____ Page _____
Elevation Bottom	-9.9 MLW ~~M.S.L.~~	Obs. Well —	
Total Depth	9 Feet	Drilled By EASTERN GEOTECNICAL ASSOC.	
Core Recovered N/A %	No. Boxes _____	Mfg. Des. Drill ACKER	
Core Recovered N/A Ft: ____ Diam. ____ In.		Inspected By: J. Crowther	
Soil Samples N/A In. Diam. ____ No.		Classification By: J. Crowther	
Soil Samples N/A In. Diam. ____ No.		Classification By: _____	

DEPTH 1" = 2.0	CORE/SAMPLE NO.	SIZE	DEPTH RANGE	BLOWS PER FT. / CORE REC'VY	SAMPLING AND CORING OPERATIONS	CLASSIFICATION OF MATERIALS
					2.0 FT SINKIN WITH WEIGHT OF HAMMER	
1.0						
2.0						
				3		SILTY SAND (IN RODS NEAR TOP) fine, 10-20% n.p. fines, trace shells dark grey (SM)
3.0				2	DROVE "AW" ROD PROBE FROM 0.0 TO 9.0 FT. WITH 300 lb. HAMMER.	
4.0				1		
5.0				2		
6.0				2		
7.0				2		SAND (IN TIP) fine, 5-10% non plastic fines, trace shells grey (SM)
8.0				2		
9.0					END OF PROBE AT 9.0 FT.	9.0 FT

GENERAL REMARKS: WATER AT 4.75 FT. AT 1200 hrs. ON 5-11-84

Probe No. FP-84-16

Site: PINEPOINT ME

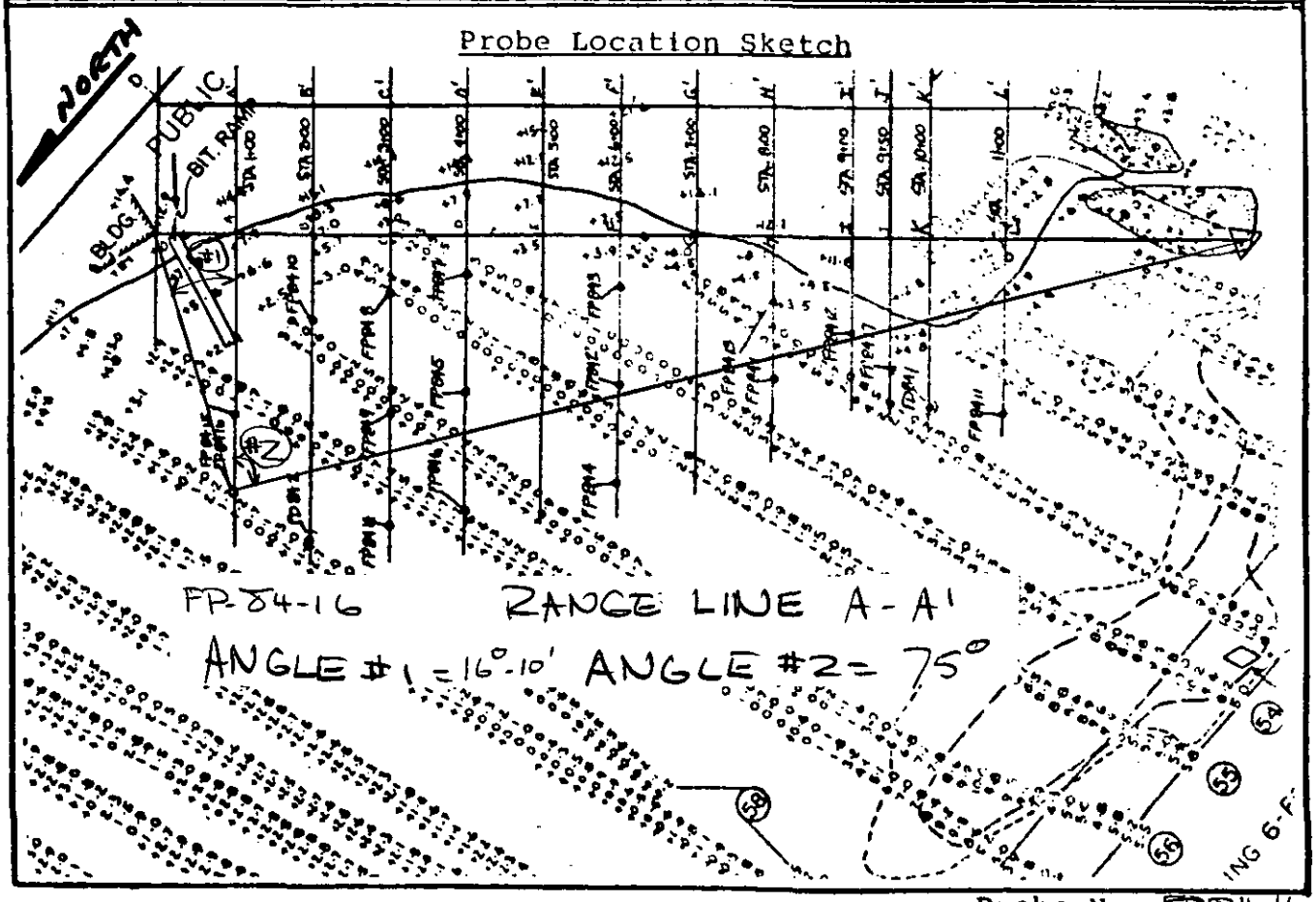
Probe No. FP-84-16

TIDAL OBSERVATIONS

DATE	TIME	DEPTH-BOT OF CASING	DEPTH-BOT OF PROBE	DEPTH TO BOTTOM	ELEVATION OF TIDE	REMARKS
5-11-84	1200	—	9.0	4.75	3.9	EL TOP OF PROBE
						= -0.9 MLW
						EL BOTT: -9.9
						MLW

Note: Depths are in feet below original ground or mudline.

Probe Location Sketch



U. S. ARMY
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NEW ENGLAND DIVISION

FIELD LOG OF TEST PROBE

Site Pine Pt. Harbor ME Page 1 of 2 Pages

Probe FP-84-17 Desig. P-23 Diam. (Casing) _____

Co-ordinates: N _____ E _____

Elevation Top -1.1 ~~M.S.L.~~ MLW
Total Overburden Drilled 10.0 Feet
Elevation Top of Rock — M.S.L.
Total Rock Drilled N/A Feet
Elevation Bottom -11.1 ~~M.S.L.~~ MLW
Total Depth 10.0 Feet
Core Recovered N/A % No. Boxes _____
Core Recovered N/A Ft: ____ Diam. ____ In.
Soil Samples N/A In. Diam. ____ No.
Soil Samples N/A In. Diam. ____ No.

Hammer Wt. 300 lbs
Hammer Drop 18"
Casing Left —
Subsurface Water Date — Page _____
Obs. Well —
Drilled By EASTERN GEOTECHNICAL ASSOC.
Mfg. Des. Drill ACKER
Inspected By: J. Crouther
Classification By: J. Crouther
Classification By: _____

Started 5-11-84
Completed 5-11-84

DEPTH 1"=2'	CORE/SAMPLE NO.	SIZE	DEPTH RANGE	BLOWS PER FT. / CORE RECV'Y	SAMPLING AND CORING OPERATIONS	CLASSIFICATION OF MATERIALS
					1.0 FT. SINK IN WITH WEIGHT OF HAMMER.	
1.0				1		
2.0				2		
3.0				2	DROVE "AW" ROD PROBE FROM 0.0 TO 10.0 FT. WITH 300lb. HAMMER.	SAND (IN RODS) fine 5-10% n.p. fines, grey brown (SP-SM)
4.0				2		
5.0				2		
6.0				10		
7.0				10		
8.0				25		
9.0				32		SILTY SAND (IN TIP) coarse to fine mostly fine 5-10% gravel, 10-15% non plastic fines, grey (SM) 100 FT. POSS. GLACIAL TILL
10.0				21	END OF PROBE AT 10.0 FT.	

GENERAL REMARKS: WATER 3.0 FT. DEEP AT 1245 hrs ON 5-11-84

Probe No. FP-84-17

Site: PINE POINT MLF

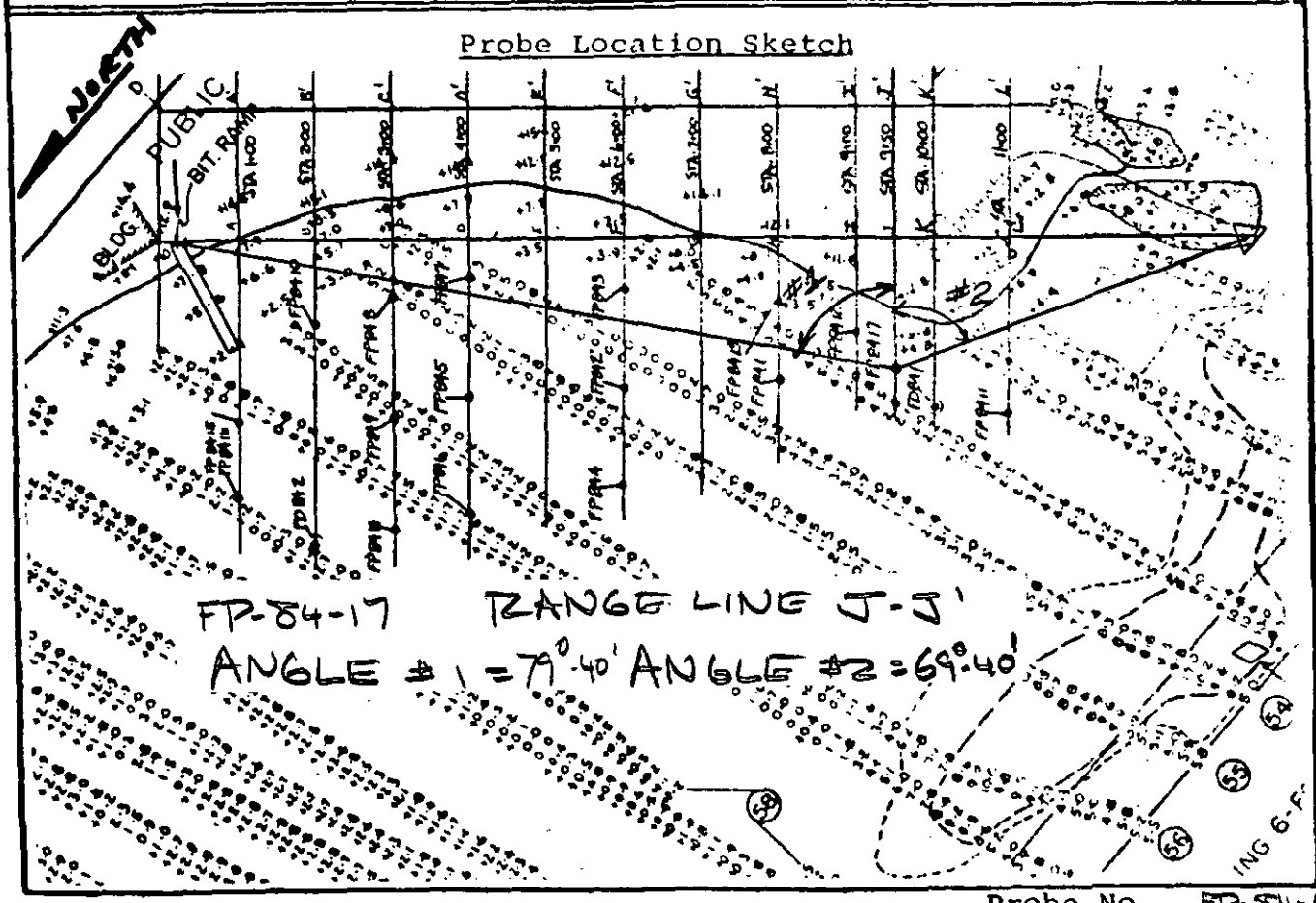
Probe No. FP-84-17

TIDAL OBSERVATIONS

DATE	TIME	DEPTH-BOT OF CASING	DEPTH-BOT OF PROBE	DEPTH TO BOTTOM	ELEVATION OF TIDE	REMARKS
5-11-84	1245	–	10.0	3.0	1.9	EL TOP OF PROBE
						= -11.1 MLW
						EL BOTT. = -11.1
						MLW

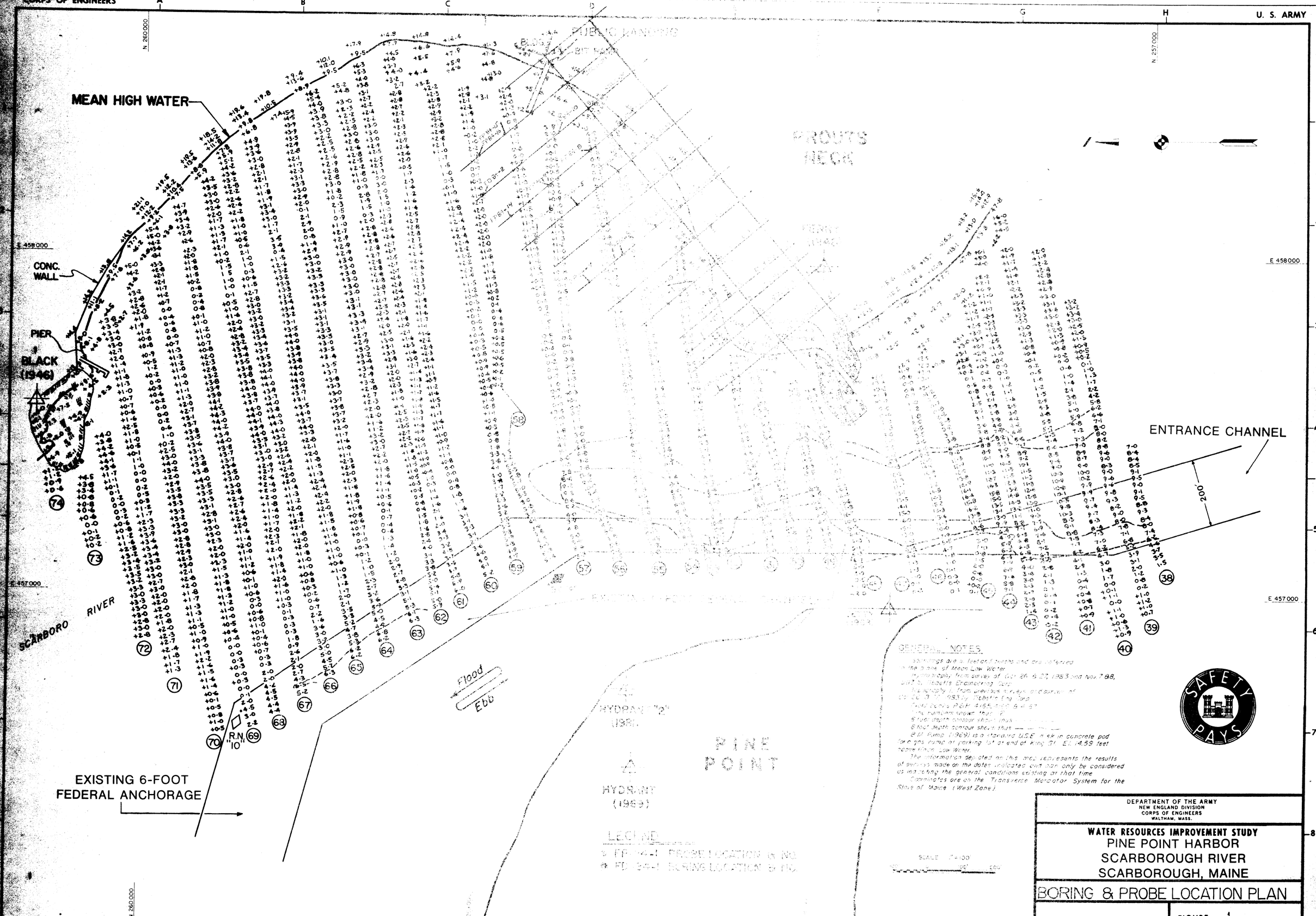
Note: Depths are in feet below original ground or mudline.

Probe Location Sketch



APPENDIX F

TIDE CHART


CORPS OF ENGINEERS
U. S. ARMY
MEAN HIGH WATER
CONC. WALL
PIER
BLACK (1946)
SCARBORO RIVER
PROUTS NECK
ENTRANCE CHANNEL
200'
Flood
Ebb
HYDRANT "2" (1981)
HYDRANT (1969)
PINE POINT
R.N. "10"
EXISTING 6-FOOT FEDERAL ANCHORAGE
N 260000
N 257000
E 458000
E 457000
GENERAL NOTES
LEGEND
SCALE 1"=100'
SAFETY PAYS
DEPARTMENT OF THE ARMY
NEW ENGLAND DIVISION
CORPS OF ENGINEERS
WALTHAM, MASS.
WATER RESOURCES IMPROVEMENT STUDY
PINE POINT HARBOR
SCARBOROUGH RIVER
SCARBOROUGH, MAINE
BORING & PROBE LOCATION PLAN
FIGURE 1

U. S. ARMY

PUBLIC LANDING

BLDG.

BIT. RAMP

MEAN HIGH WATER

PROUTS NECK

FERRY (1946)

RED DAYMARKER

CONC. WALL

PIER

BLACK (1954)

ENTRANCE CHANNEL

200'

100'

EXISTING 6-FOOT FEDERAL CHANNEL

JETTY (1968)

B.C. "9"

R.N. "8"

R.N. "10"

SCARBORO RIVER

Flood

Ebb

HYDRANT "2" (1981)

HYDRANT (1969)

PINE POINT

EXISTING 6-FOOT FEDERAL ANCHORAGE

N 260 000

N 259 000

N 258 000

N 257 000

E 458 000

E 457 000

GENERAL NOTES

Soundings are in feet and tenths and are referred to the plane of Mean Low Water.

Hydrography from survey of Oct. 26 & 27, 1983 and Nov. 7 & 8, 1983 by Tibbetts Engineering Corp.

Topography is from previous surveys and survey of Oct. 26 & 27, 1983 by Tibbetts Eng. Corp.

Field books R&H 4165, 4166 & 4167.

Line numbers shown thus (12)

6 foot depth contour shown thus – – – – – –

8 foot depth contour shown thus — — — —

B.M. Pump (1969) is a standard U.S.E. disk in concrete pad for a gas pump at parking lot at end of King St. El. 14.59 feet above Mean Low Water.

The information depicted on this map represents the results of surveys made on the dates indicated and can only be considered as indicating the general conditions existing at that time.

Coordinates are on the Transverse Mercator System for the State of Maine (West Zone).

LEGEND

- ● P-1 PROPOSED PROBES
- ○ P-23 OPTIONAL PROBES
- ⊙ B-1 PROPOSED BORINGS

SCALE 1" = 100'

100' 0 100' 200'

SAFETY PAYS

DEPARTMENT OF THE ARMY
NEW ENGLAND DIVISION
CORPS OF ENGINEERS
WALTHAM, MASS.

WATER RESOURCES IMPROVEMENT STUDY

PINE POINT HARBOR
SCARBOROUGH RIVER
SCARBOROUGH, MAINE

FIGURE

ATTACHMENT # 2

PINE POINT ME

1984 MAY 1984

BOSTON a.m.		p.m.	SUN denotes sunrise & sunset	PORTLAND a.m.		p.m.
2:31	Hi	3:13	SUNDAY 6	2:04	Hi	2:48
9.9	Height	8.6		9.6	Height	8.3
8:59	Lo	9:13		2:04	Lo	2:48
—0.2	Height	1.1		—0.3	Height	1.1
4:33	Sun	6:49		4:33	Sun	6:49
3:25	Hi	4:08	MONDAY 7	2:57	Hi	3:46
9.8	Height	8.6		9.5	Height	8.3
9:53	Lo	10:10		9:30	Lo	9:44
—0.1	Height	1.1		—0.1	Height	1.2
4:32	Sun	6:50		4:32	Sun	6:50
4:24	Hi	5:09	TUESDAY 8	3:57	Hi	4:50
9.7	Height	8.8		9.4	Height	8.5
10:51	Lo	11:13		10:31	Lo	10:50
0.0	Height	1.0		0.0	Height	1.2
4:31	Sun	6:51	☽ 1st QUARTER	4:31	Sun	6:51
5:27	Hi	6:09	WEDNESDAY 9	5:03	Hi	5:45
9.7	Height	9.1		9.4	Height	8.8
11:53	Lo	——		11:35	Lo	11:59
—0.1	Height	——		0.0	Height	0.9
4:30	Sun	6:52		4:30	Sun	6:52
6:30	Hi	7:09	THURSDAY 10	6:12	Hi	6:57
9.8	Height	9.6		9.4	Height	9.3
12:19	Lo	12:53		——	Lo	12:37
0.6	Height	—0.3		——	Height	—0.1
4:29	Sun	6:53		4:29	Sun	6:53
7:33	Hi	8:05	FRIDAY 11	7:18	Hi	7:55
9.9	Height	10.2		9.5	Height	9.8
1:21	Lo	1:49		1:06	Lo	1:36
0.1	Height	—0.5		0.3	Height	—0.4
4:27	Sun	6:54		4:27	Sun	6:54
8:32	Hi	8:58	SATURDAY 12	8:21	Hi	8:50
10.1	Height	10.8		9.7	Height	10.3
2:21	Lo	2:44		2:09	Lo	2:31
—0.5	Height	—0.7		—0.3	Height	—0.6
4:26	Sun	6:55		4:26	Sun	6:55
BOSTON			MAY	PORTLAND		

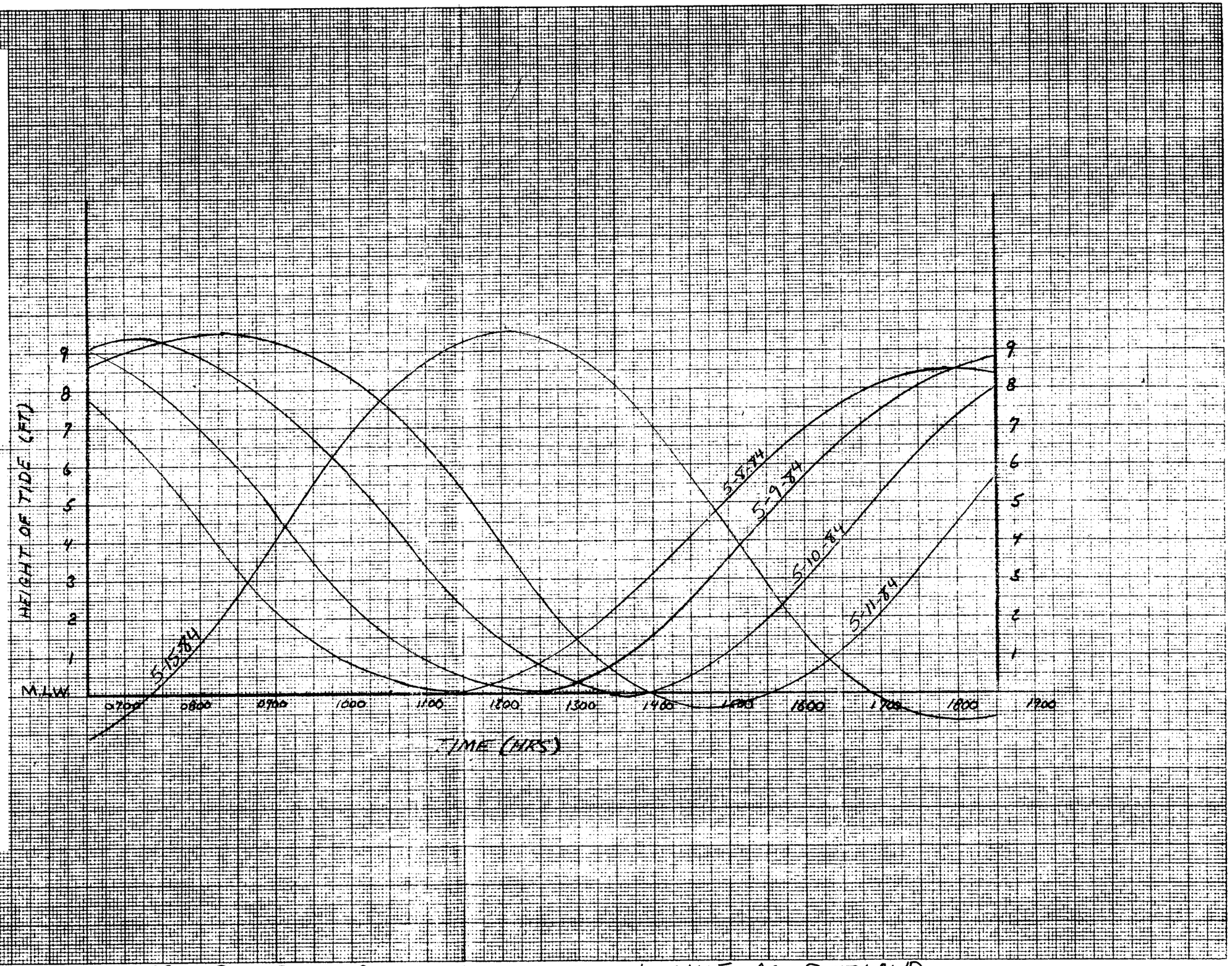
Eastern Standard Times - Add 1 hour for Daylight Savings Time.

1984 MAY 1984

BOSTON a.m.		p.m.	SUN denotes sunrise & sunset	PORTLAND a.m.		p.m.
9:27	Hi	9:50	SUNDAY 13	9:19	Hi	9:40
10.3	Height	11.2		9.8	Height	10.7
3:16	Lo	3:35		3:08	Lo	3:24
—1.1	Height	—0.8		—0.9	Height	—0.8
4:25	Sun	6:57		4:25	Sun	6:57
10:21	Hi	10:39	MONDAY 14	10:12	Hi	10:30
10.3	Height	11.4		9.8	Height	10.8
4:09	Lo	4:23		4:01	Lo	4:15
—1.5	Height	—0.8		—1.4	Height	—0.8
4:24	Sun	6:58		4:24	Sun	6:58
11:13	Hi	11:26	TUESDAY 15	11:04	Hi	11:18
10.2	Height	11.4		9.6	Height	10.8
4:58	Lo	5:11		4:52	Lo	5:04
—1.7	Height	—0.6		—1.7	Height	—0.7
4:23	Sun	6:59	○ FULL MOON	4:23	Sun	6:59
——	Hi	12:02	WEDNESDAY 16	11:55	Hi	——
——	Height	10.0		9.4	Height	——
5:47	Lo	5:59		5:41	Lo	5:51
—1.7	Height	—0.3		—1.7	Height	—0.4
4:22	Sun	7:00		4:22	Sun	7:00
12:13	Hi	12:50	THURSDAY 17	12:05	Hi	12:44
11.2	Height	9.6		10.6	Height	9.1
6:36	Lo	6:46		6:30	Lo	6:39
—1.4	Height	0.1		—1.5	Height	0.0
4:21	Sun	7:01		4:21	Sun	7:01
1:02	Hi	1:40	FRIDAY 18	12:52	Hi	1:35
10.8	Height	9.2		10.2	Height	8.7
7:22	Lo	7:34		7:19	Lo	7:27
—1.0	Height	0.5		—1.0	Height	0.5
4:20	Sun	7:02		4:20	Sun	7:02
1:50	Hi	2:30	SATURDAY 19	1:43	Hi	2:25
10.3	Height	8.8		9.8	Height	8.4
8:12	Lo	8:23		8:11	Lo	8:16
—0.5	Height	1.0		—0.5	Height	0.9
4:20	Sun	7:02		4:20	Sun	7:02
BOSTON			MAY	PORTLAND		

Eastern Standard Times - Add 1 hour for Daylight Savings Time.

No. 675
10 X 10 TO THE CENTIMETER
ALPHAGRAPHICS MADE IN U. S. A.



NOTE: PINE POINT 9 MIN BEFORE BOSTON, SAME AS PORTLAND