

GENERAL INFORMATION

INTRODUCTION

THE REPORT CONSIST OF THE SOIL INVESTIGATION OF THE PROPOSED REALIGNMENT OF THE WEST AREA LOCATED APPROXIMATELY 2.8 MILES EAST OF THE INDIANA-OHIO STATE LINE. PROPOSED GRADES SHOWING THE CUTS AND FILL EMBANKMENTS ARE FOUND IN THE PROJECT INDEX ON SHEET 1.

EXPLORATION

EXPLORATORY BORINGS WERE MADE BY MEANS OF TRUCK MOUNTED MECHANICALLY SOIL AUGER BETWEEN JULY 19 AND 31, 1988 AND JULY 30 AND AUGUST 1, 1990.

INVESTIGATIONAL FINDINGS

MATERIALS ENCOUNTERED ON THE PROJECT WERE PREDOMINATELY COMPRISED OF GRAVELS WITH SANDS, SILTS AND CLAYS IN THE A-2-S CLASSIFICATION AND SOME SILTY CLAYS IN THE A-6 CLASSIFICATION GENERALLY HAVING MOISTURE CONTENTS IN THE LOWER PORTION OF THE PLASTIC RANGE OR NON-PLASTIC.

LEGEND FOR PROJECT AVERAGE RESULTS OF TESTS-245

SAMPLES TESTED

DESCRIPTION	H.R.B. CLASS	OHIO CLASS	% AGG.	% C. SAND	% F. SAND	% SILT	% CLAY	LIQUID LIMIT	PLASTICITY INDEX	WATER CONTENT	SAMPLES TESTED
GRAVEL.	A-1-A(0)	A-1-A	63	17	15	4	1	NP	NP	5	1
GRAVEL WITH SAND.	A-1-B(0)	A-1-B	35	22	25	13	5	NP	NP	11	4
COARSE AND FINE SAND.	-----	A-3A	20	19	35	18	4	NP	NP	12	2
GRAVEL WITH SAND AND SILT.	A-2-4(0)	A-2-4	39	11	18	21	11	17	2	11	9
GRAVEL WITH SAND, SILT, AND CLAY.	A-2-6(0)	A-2-6	70	4	7	13	6	28	16	10	1
SANDY SILT.	A-4(3)	A-4A	17	10	21	33	19	18	4	11	178
SILT.	A-4(6)	A-4B	5	4	24	55	12	18	2	14	2
SILT AND CLAY.	A-6(6)	A-6A	14	7	20	33	26	29	13	13	15
SILTY CLAY.	A-6(10)	A-6B	10	5	19	33	33	38	20	19	11
CLAY.	A-7-6(15)	A-7-6	8	3	9	40	40	46	25	19	8
COBBLES.											
VARIOUS OTHER MATERIALS.											

VISUAL CLASSIFICATION

VISUAL CLASSIFICATION

SOD AND/OR TOPSOIL = X = APPROXIMATE DEPTH.

WATER CONTENT NEARLY EQUAL TO OR GREATER THAN LIQUID LIMIT.

AUGER BORING-PLAN VIEW,

INDICATES A NON-PLASTIC MATERIAL WITH A HIGH WATER CONTENT

AUGER BORING PLOTTED TO VERTICAL SCALE ONLY.

FREE WATER.

NOTE: FIGURES BESIDE BORINGS INDICATE WATER CONTENT IN PERCENT. e.g. 15

SOIL PROFILE

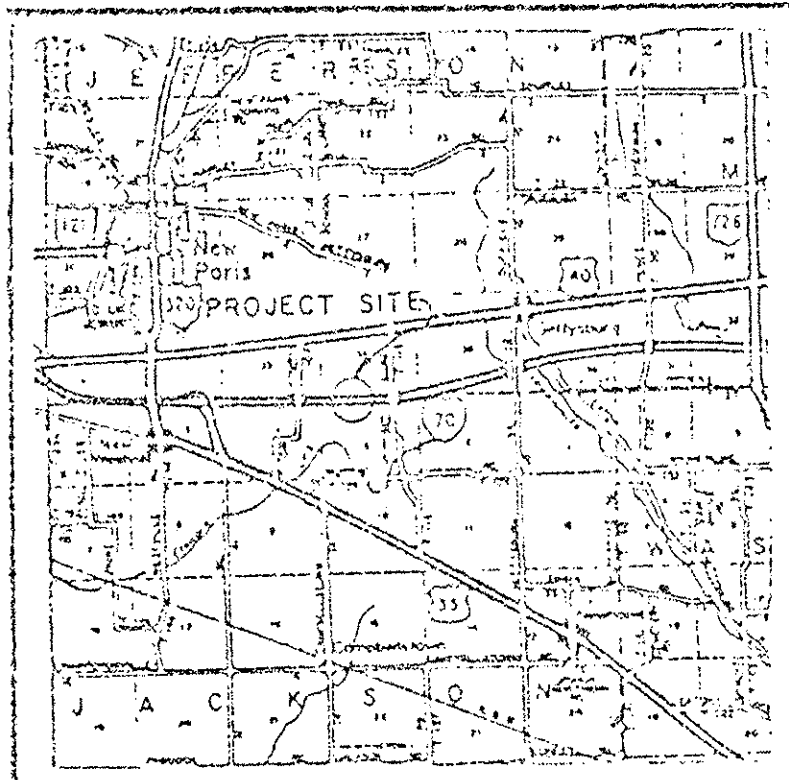
PREBLE COUNTY

PRE-70-2.41

OHIO DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS-TESTING LABORATORY
1600 WEST BROAD STREET COLUMBUS, OHIO 43223

NOTE: INFORMATION SHOWN BY THIS SUBGRADE PROFILE WAS OBTAINED SOLELY FOR USE IN ESTABLISHING DESIGN CONTROLS FOR THE PROJECT. THE STATE OF OHIO DOES NOT GUARANTEE THE ACCURACY OF THIS DATA AND IT IS NOT TO BE CONSTRUED AS A PART OF THE PLANS GOVERNING CONSTRUCTION OF THE PROJECT.

ALL AVAILABLE SOIL AND BEDROCK INFORMATION WHICH CAN BE CONVENIENTLY SHOWN ON THE SOIL PROFILE FOUNDATION INVESTIGATION SHEETS HAS BEEN SO REPORTED. ADDITIONAL SUBSURFACE INVESTIGATION, SOIL TESTS AND BEDROCK BORINGS MAY HAVE BEEN MADE TO STUDY SOME SPECIAL ASPECT OF THE PROJECT. COPIES OF THIS DATA, IF ANY, MAY BE INSPECTED IN THE DISTRICT DEPUTY DIRECTOR'S OFFICE, THE BUREAU OF TESTS AT 1600 WEST BROAD STREET, THE PAVEMENT AND SOILS SECTION OF THE BUREAU OF LOCATION AND DESIGN OR IN THE BRIDGE BUREAU AT 25 SOUTH FRONT STREET.



LOCATION MAP

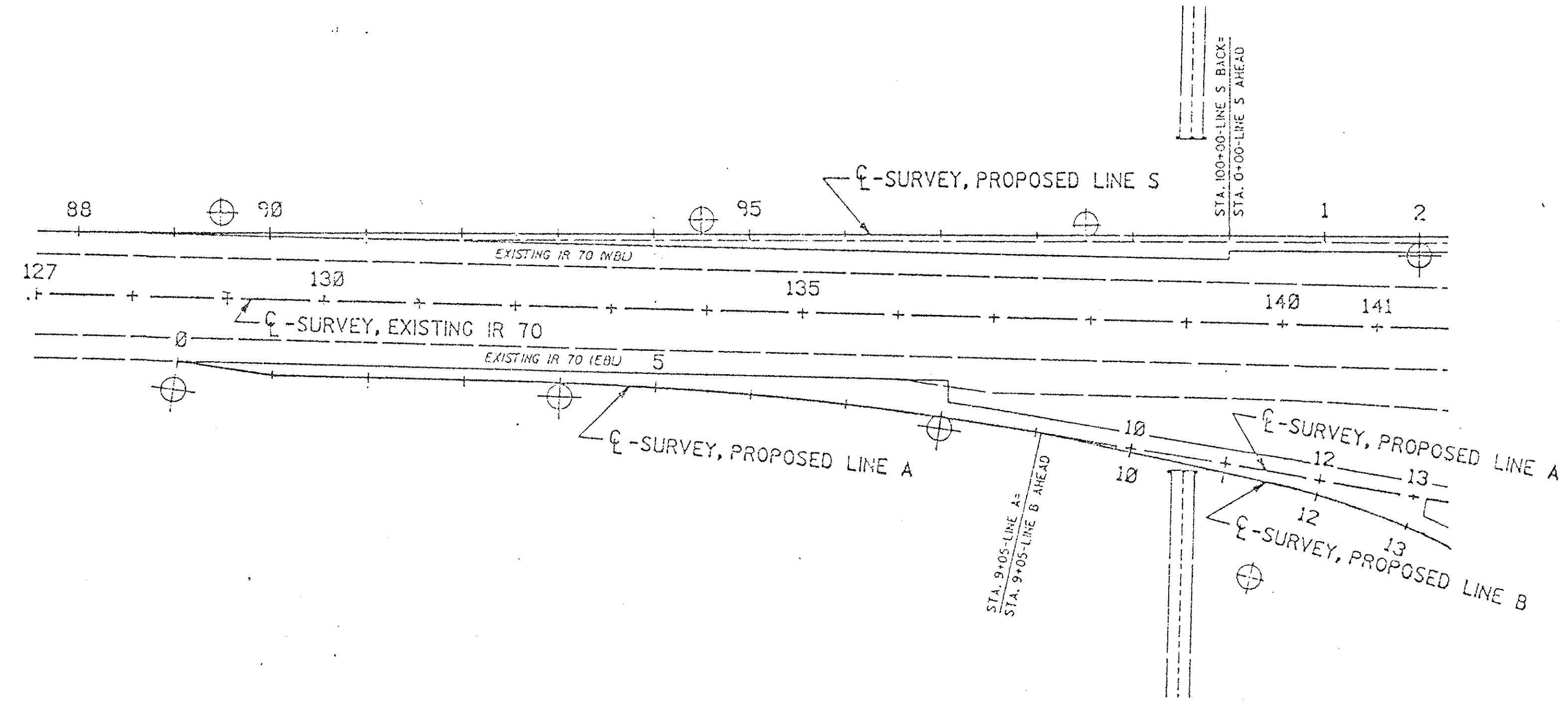
Recon. R.D.R. 7/19/1968 - 7/30/1980
Drilling: T.R.S. 7/19 to 7/31/1988
7/30 to 8/1/1990
Drafting - M.R.S. 8/17/1990

PROJECT INDEX

STATIONS FROM	TO	PLAN VIEW SHEET	PROFILE SHEET	CUT MAX.	FILL EXB. MAX.
<u>Line S</u>					
36+00	- 100+00 Back =	3 & 4	3	1'	
0+00 Ahead =	33+10		3	18'	2'
<u>Line T</u>					
5+15	- 11+70			6'	1'
<u>Line U</u>					
	23+25			5'	
<u>Line V</u>					
23+25	- 30+05			4'	
<u>Line W</u>					
11+09	- 19+60	4	10	10'	5'
<u>Line X</u>					
11+15	- 23+90	4	12	12'	3'
<u>Line Y (Eastbound Lane Rest Area)</u>					
<u>Line A</u>					
9+00	- 44+00	3 & 4	5	3'	3'
<u>Line B</u>					
9+05	- 15+79	4 & 4	6	1'	3'
<u>Line C</u>					
15+79	- 30+29	4	9	2'	5'
<u>Line D</u>					
30+29	- 38+10	4	6	2'	14'
<u>Line E</u>					
16+20	- 31+18	4	7	5'	17'
<u>Line F</u>					
18+20	- 32+67	4	7	4'	10'



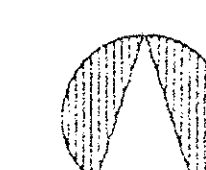
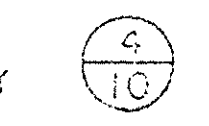
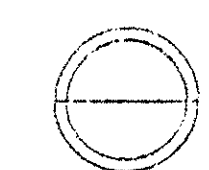
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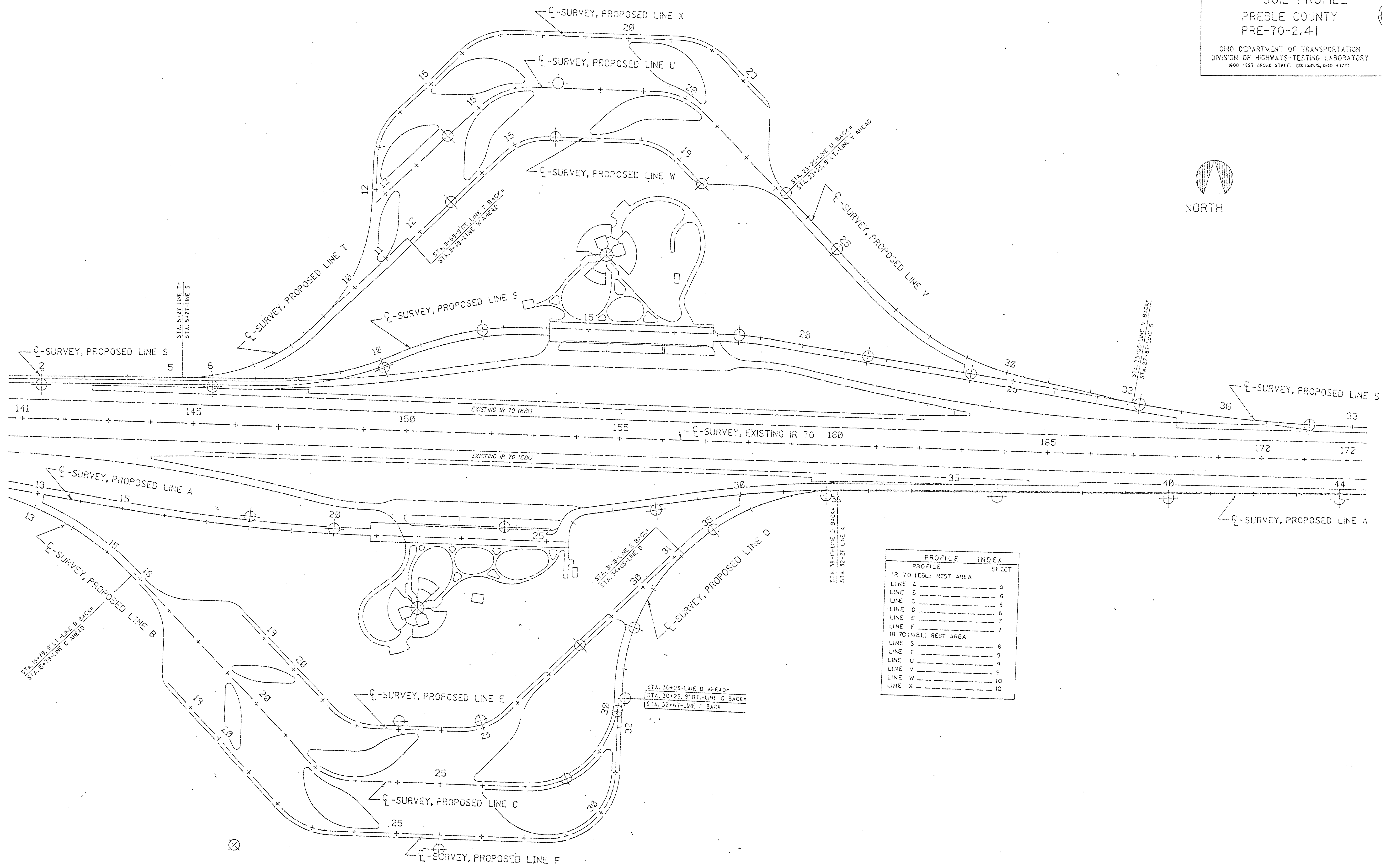
PROFILE INDEX	
PROFILE	SHEET
LINE A	5
LINE B	6
LINE S	8

SOIL PROFILE
PREBLE COUNTY
PRE-70-2.41

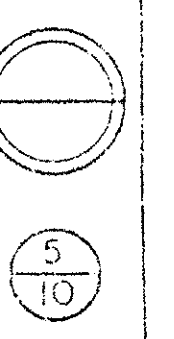
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1600 WEST BROAD STREET COLUMBUS, OHIO 43223



NORTH

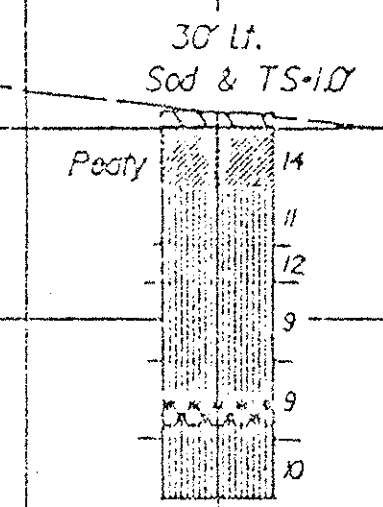
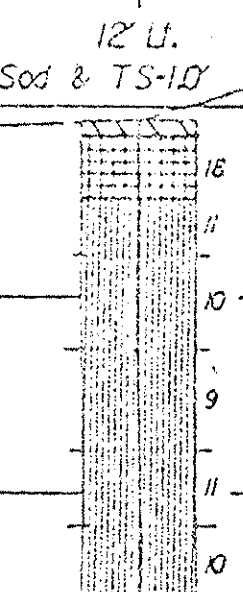
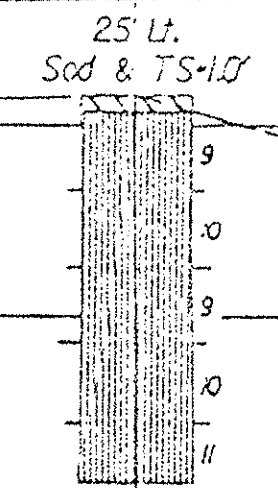
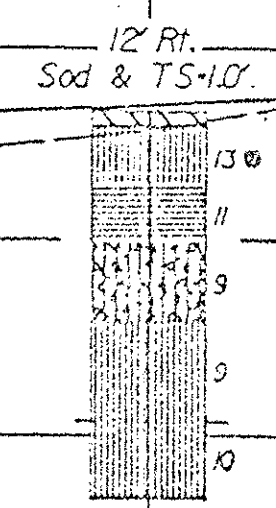
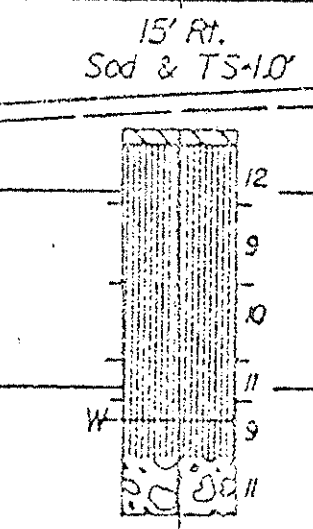
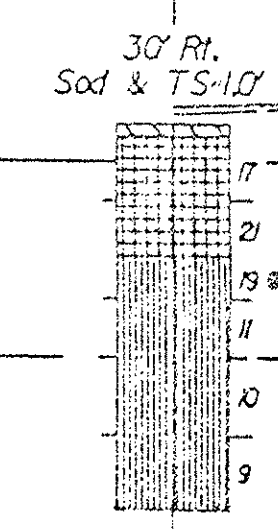


PROFILE	INDEX
IR 70 (EBL) REST AREA	
LINE A	5
LINE B	6
LINE C	6
LINE D	6
LINE E	7
LINE F	7
IR 70 (WBL) REST AREA	
LINE S	8
LINE T	9
LINE U	9
LINE V	9
LINE W	10
LINE X	10



1220
1210
1200
1190
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1220
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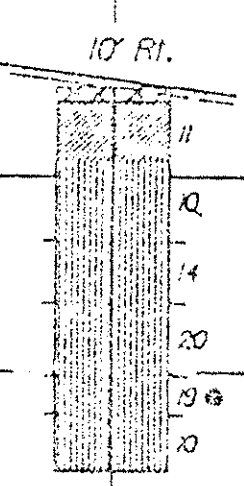
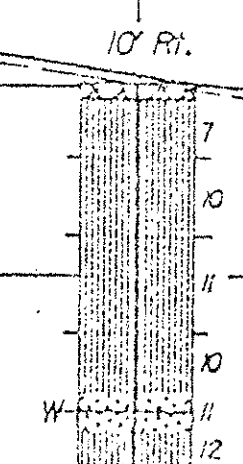
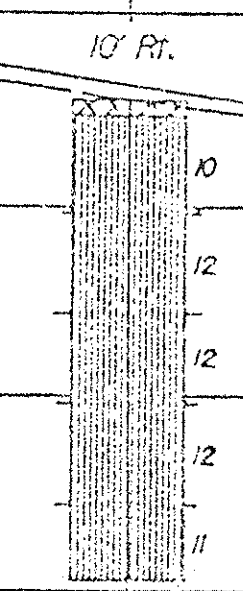
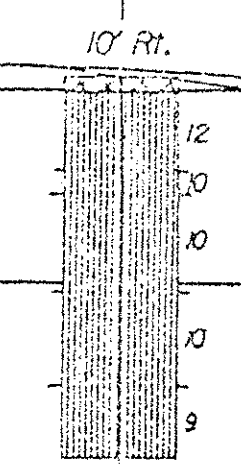
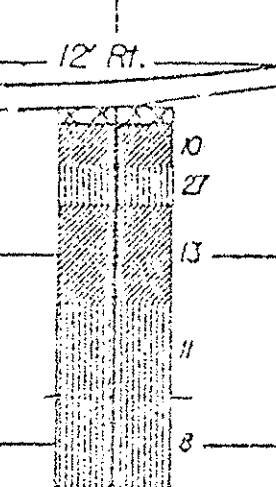


LINE A

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25

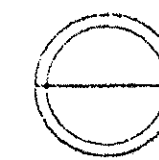
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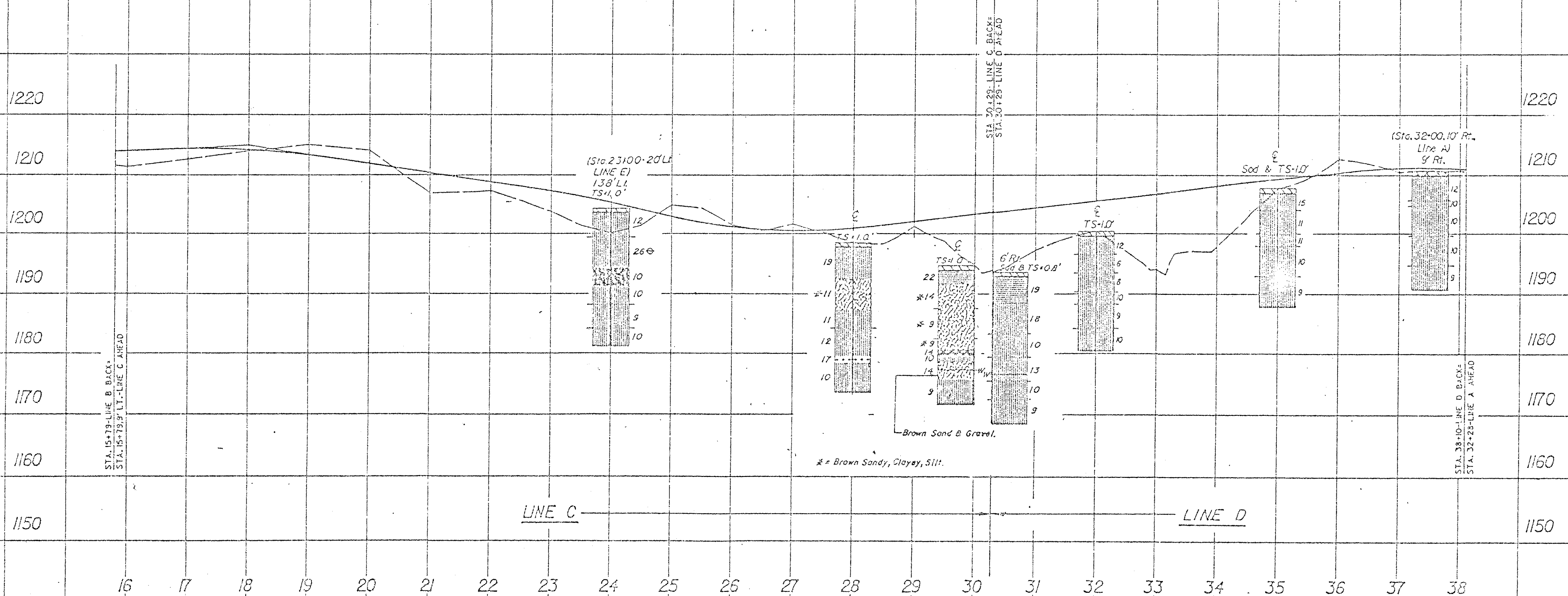
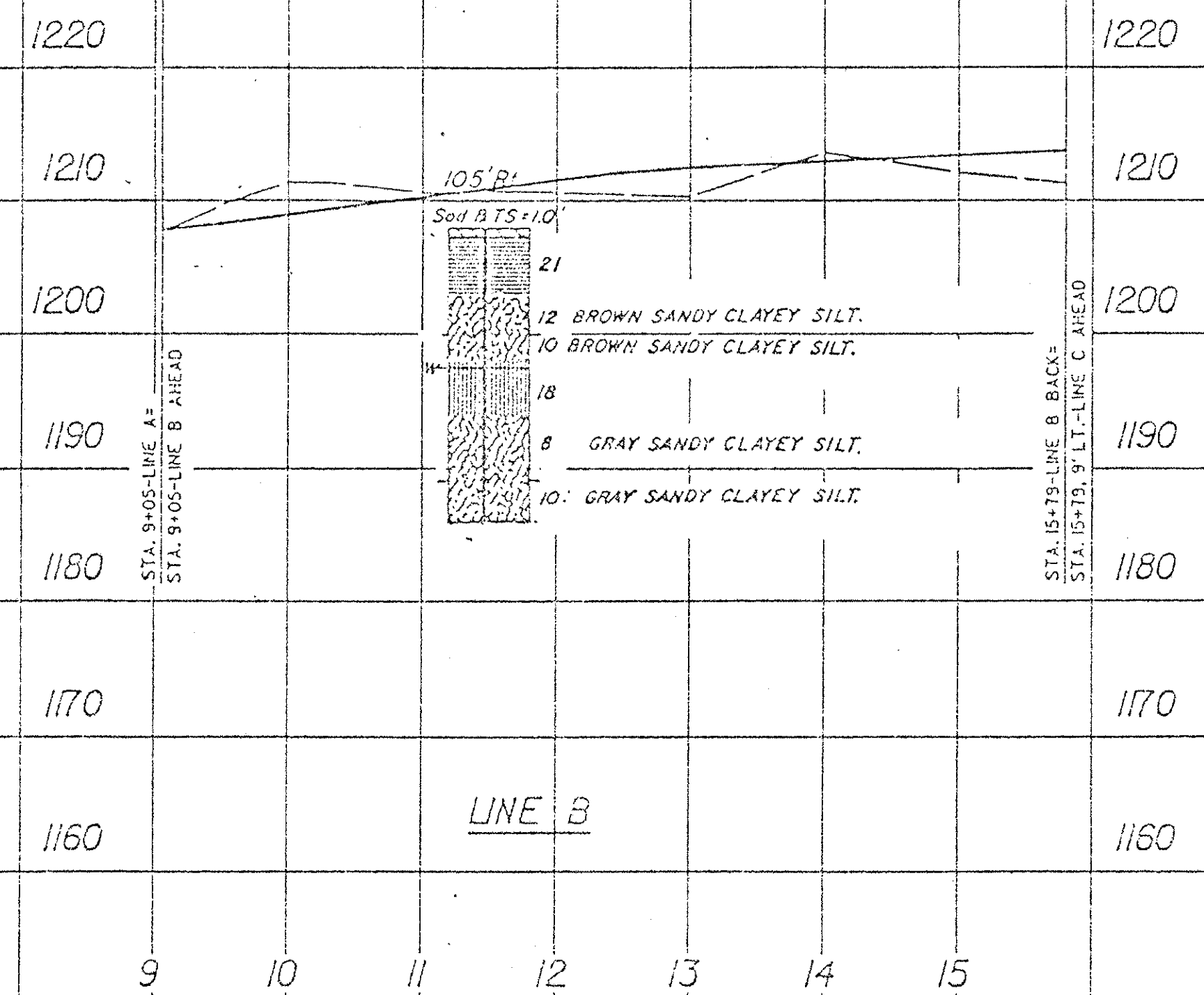


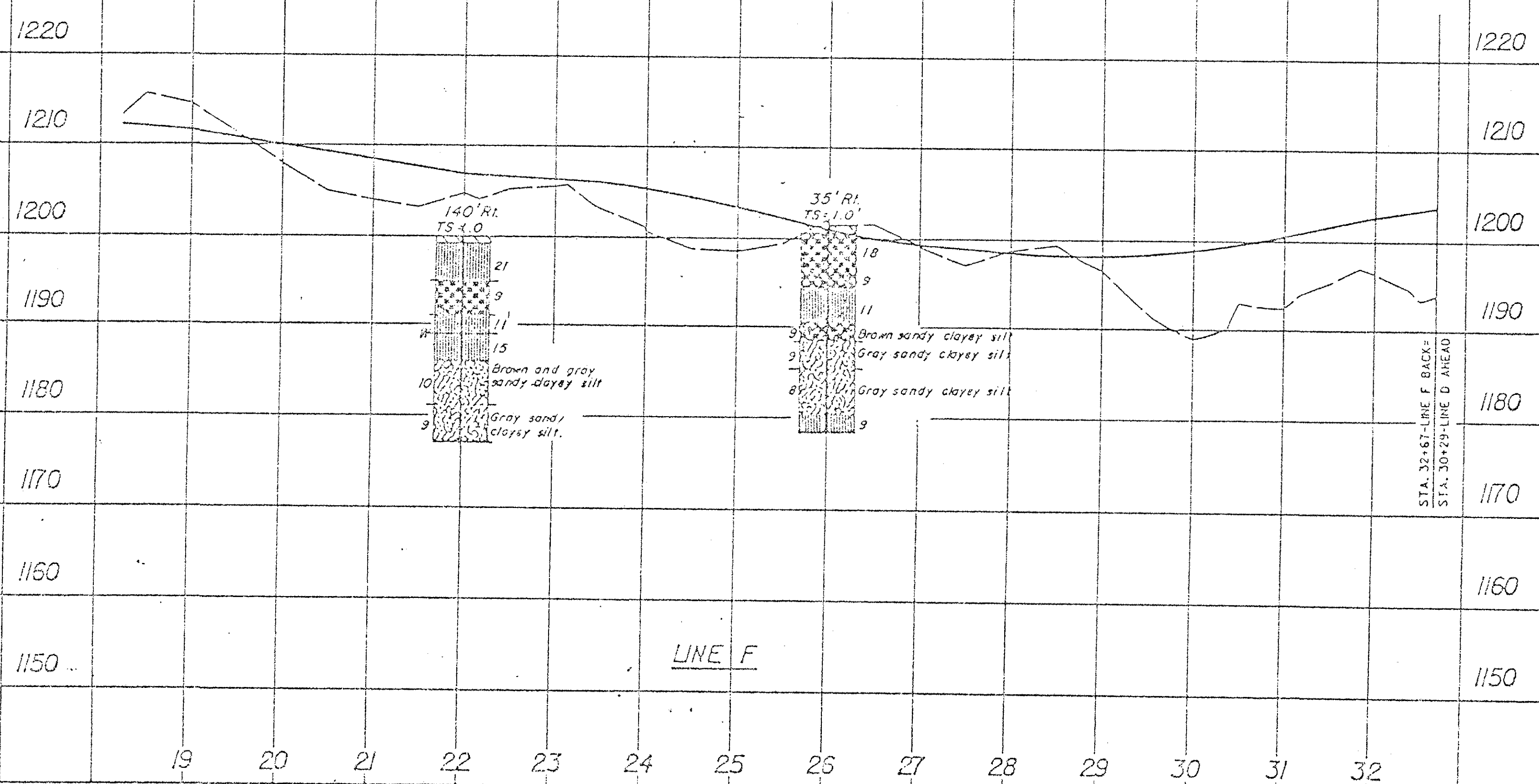
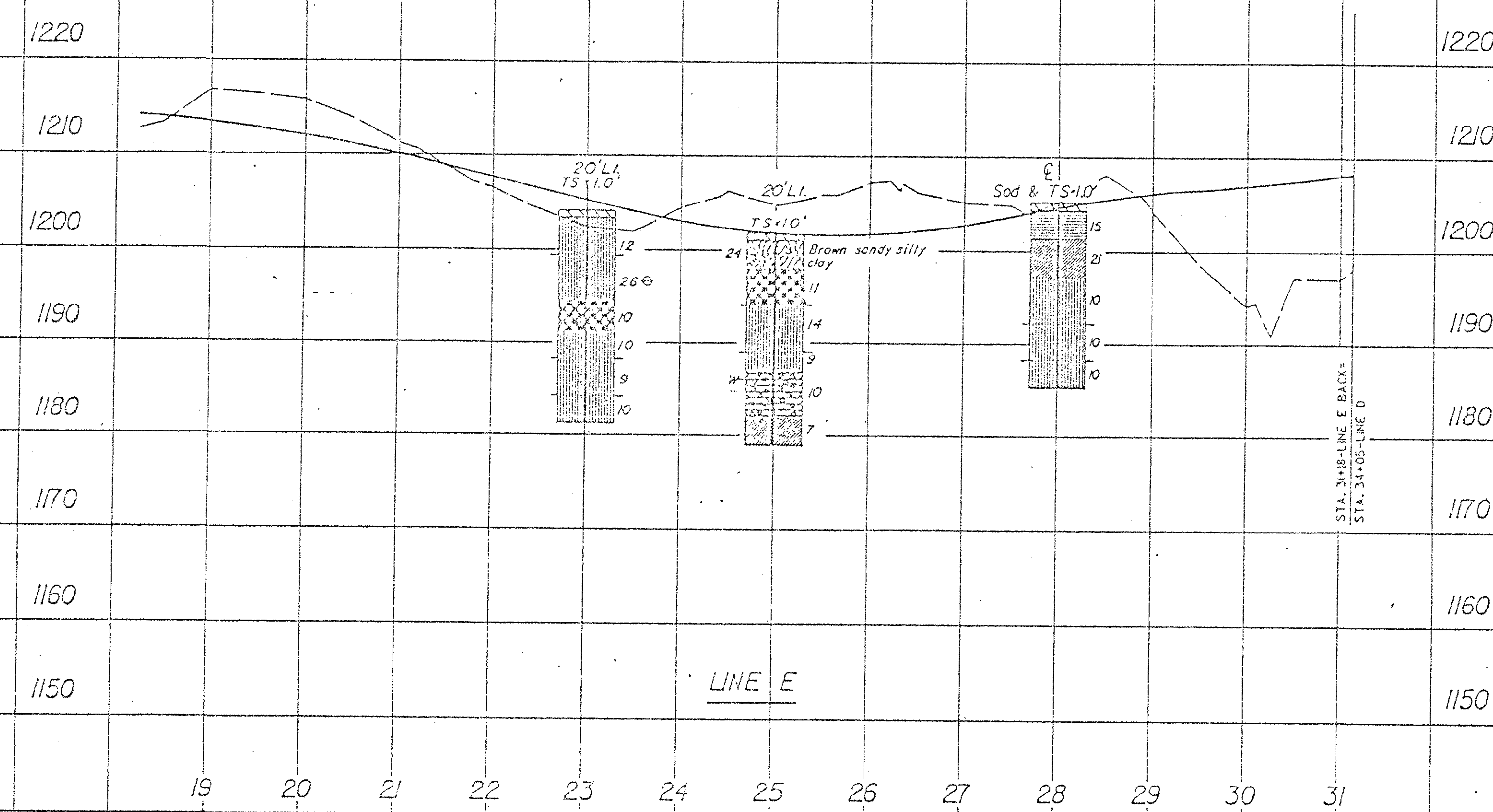
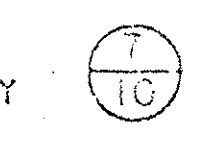
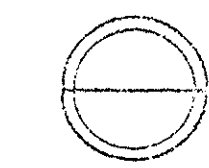
LINE A (CONTINUED)

25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44



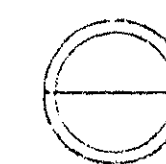
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SOIL PROFILE
PREBLE COUNTY
PRE-70-2.41

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8
10

1230

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1200

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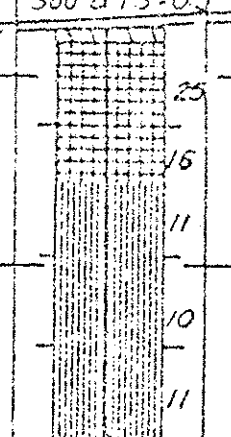
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1160

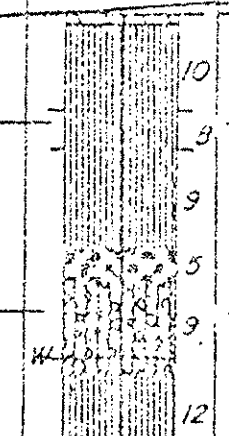
LINE S

LINE S (CONTINUED)

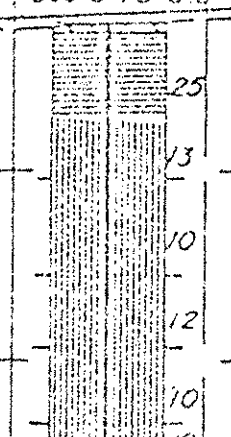
20' Lt.
Sod & TS-0.5'



15' Lt.
Sod & TS-0.5'



10' Lt.
Sod & TS-0.5'

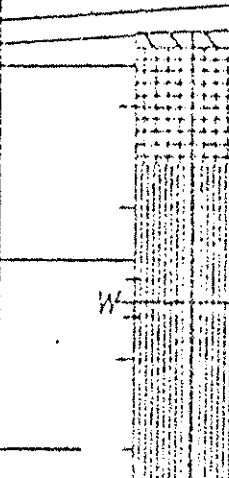


100-00 BACK-
0+00 AHEAD

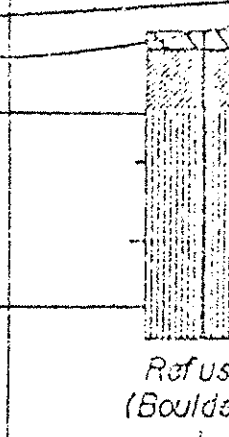
20' Rt.
Sod & TS-1.0'



20' Rt.
Sod & TS-1.0'



20' Rt.
Sod & TS-1.0'



Refusal
(Boulders)

20' Rt.
Sod & TS-1.0'

