

INDEX OF SHEETS

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3	BANKING AND WIDENING TABLES
4-8	PLAN AND PROFILE SHEETS
9	DETAILS OF EXTENSION TO 12'14" R.C. BOX STR. & 15'2"
10	STANDARD STRUCTURE SHEET 3-23 PIPE CULVERTS
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12	" " " " 3-30 GUARD RAIL
13	" " " " 3-31 BOUNDARY MARKERS
14	" " " " 3-30 BARRICADES, SIGNS, & LIGHTS
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STANDARD STRUCTURE SHEETS APPROVED  
BY THE CHIEF ENGINEER  
5 28 E 3 29 JULY 11, 1933  
3 30 AUG 15, 1933  
3 31 JULY 25, 1934

STATE OF VERMONT  
STATE HIGHWAY DEPARTMENT

PLAN AND PROFILE OF PROPOSED  
STATE HIGHWAY  
FEDERAL AID PROJECT

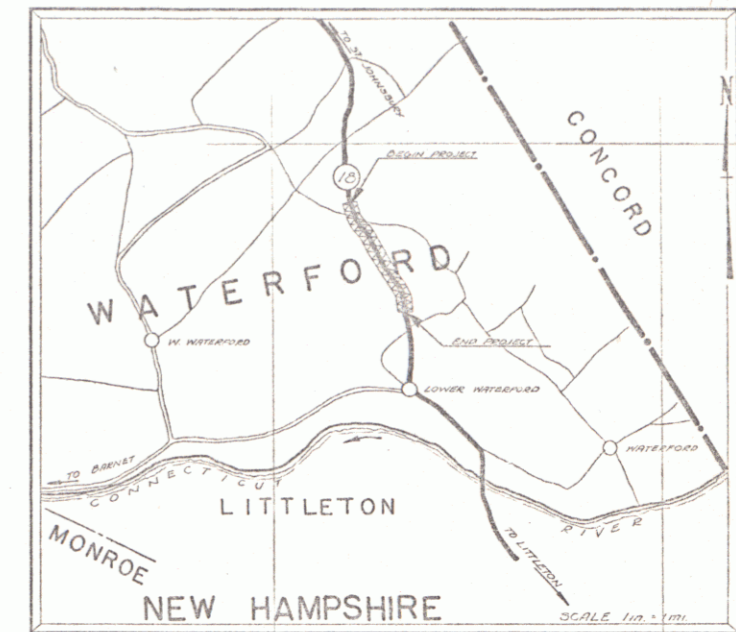
TOWN OF WATERFORD

ST. JOHNSBURY VT. - LITTLETON NH. ROAD

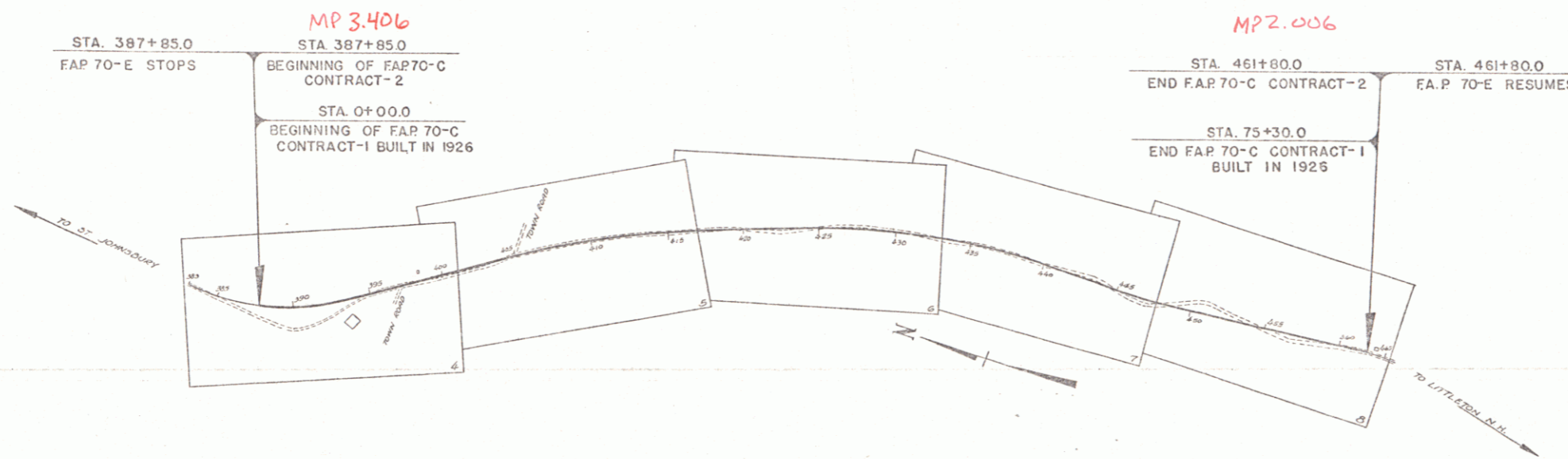
BEGINNING AT A POINT 3.349 MILES NORTHERLY OF THE INTERSTATE BRIDGE  
PROJECT 263 & EXTENDING 1.400 MILES SOUTHERLY

LENGTH OF PROJECT 7394.2 FT. = 1.400 MILES

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
9	Vt.	70-C	1934	1	30



(To Be Returned to H.O.W. Division)  
of  
418  
PERMIT  
TOWN FILE  
HIGHWAY DIVISION



Pin # 008551  
Project FAP 70C  
Route VT18

APPROVED: June 1, 1933  
*H.E. Sargent*  
COMMISSIONER OF HIGHWAYS  
SUBMITTED BY ORDER OF THE STATE HIGHWAY BOARD

CONVENTIONAL SIGNS

COUNTY LINE	GROUND ELEVATION
TOWN LINE	GRADE ELEVATION
FENCE LINE	
STONE WALL	
UNFENCED PROPERTY	
GUARD RAIL	
TRAVELED WAY	
RAILROAD	
RETAINING WALL	
CENTER LINE	
SURVEY LINE	
CULVERT	
DROP INLET	
TROLLEY POLE	
POWER POLE	
TELEPHONE POLE	
TREES	
HEDGE	

CURVE DATA

DEFLECTION ANGLE	Δ
DEGREE OF CURVE	D
RADIUS OF CURVE	R
TANGENT DISTANCE	T
LENGTH OF CURVE	L
EXTERNAL DISTANCE	E
POINT OF INTERSECTION	P. I.
POINT OF CURVE	P. C.
POINT OF TANGENT	P. T.
POINT ON TANGENT	P. O. T.

SCALES

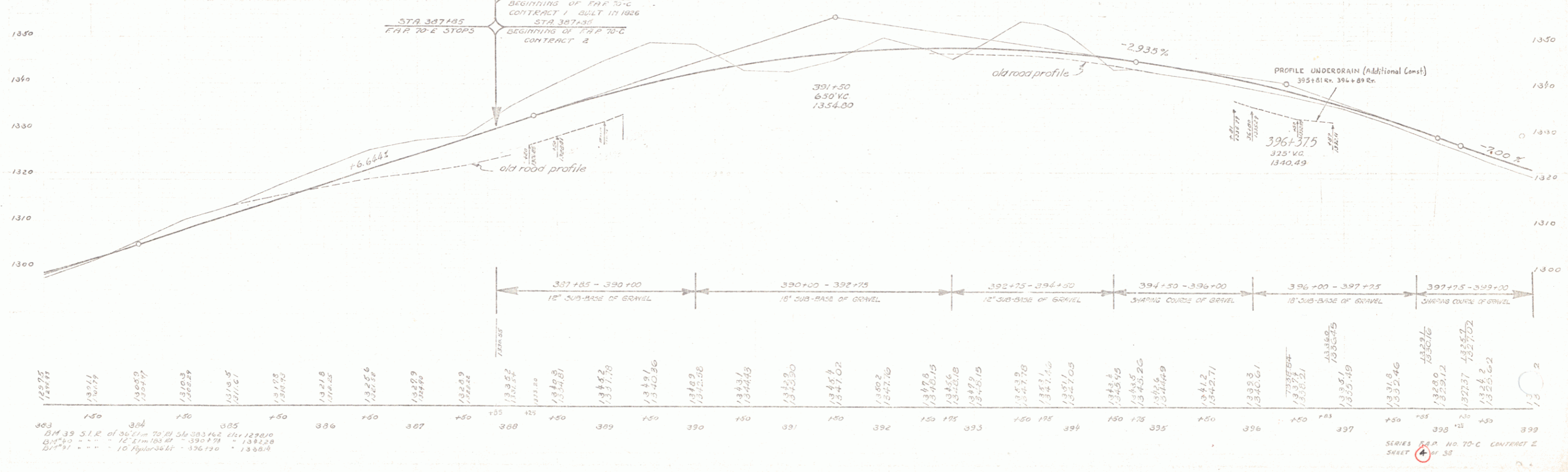
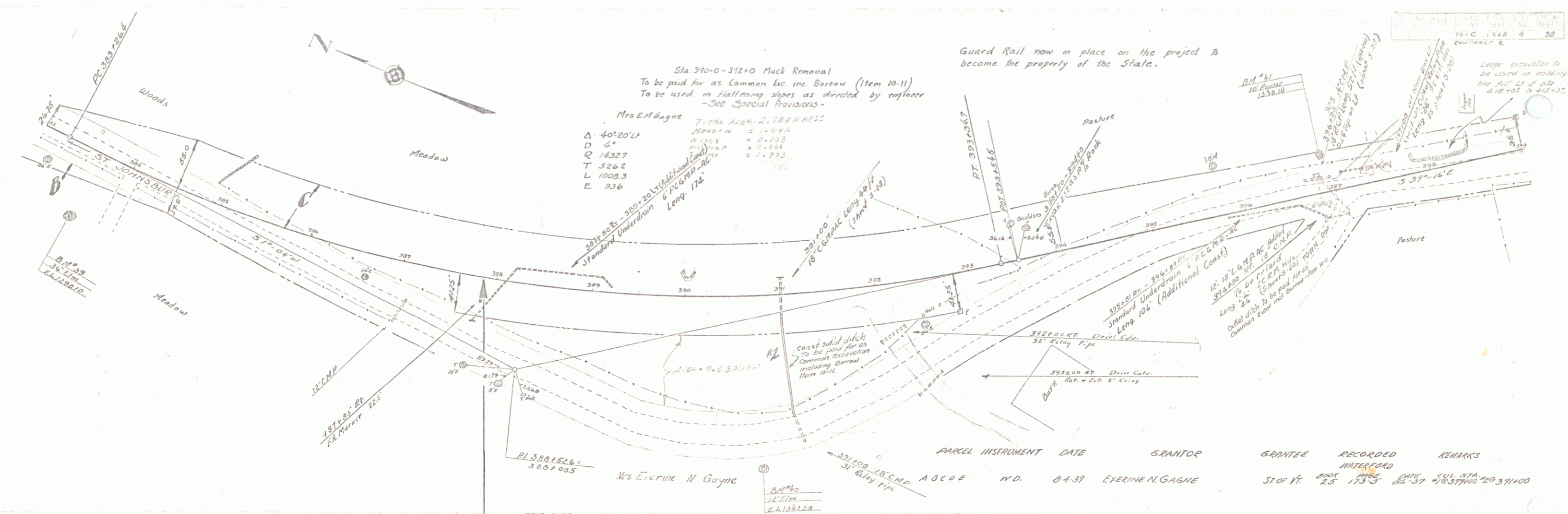
TITLE	1 IN. = 500 FT.
TYPICAL	1 IN. = 2 FT.
PLAN	1 IN. = 50 FT.
PROFILE	1 IN. = 10 FT.
CROSS SECTIONS	1 IN. = 5 FT.

THESE PLANS ARE SUBJECT TO SUCH REVISIONS AS MAY BE REQUIRED BY THE BUREAU OF PUBLIC ROADS OR THE COMMISSIONER OF HIGHWAYS. CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE WITH THE PLANS AND STANDARD ROAD AND BRIDGE SPECIFICATIONS OF 1916 AS AMENDED DEC 29 1936 BY THE BUREAU OF PUBLIC ROADS INCLUDING ALL SUBSEQUENT APPROVED REVISIONS AND SUCH REVISED SPECIFICATIONS AND SPECIAL PROVISIONS AS ARE SUBMITTED WITH THE PLANS.

RECOMMENDED  
DISTRICT ENGINEER BUREAU OF PUBLIC ROADS  
RECOMMENDED FOR APPROVAL  
CHIEF ENGINEER BUREAU OF P. R. & H.  
APPROVED  
DIRECTOR - BUREAU OF PUBLIC ROADS

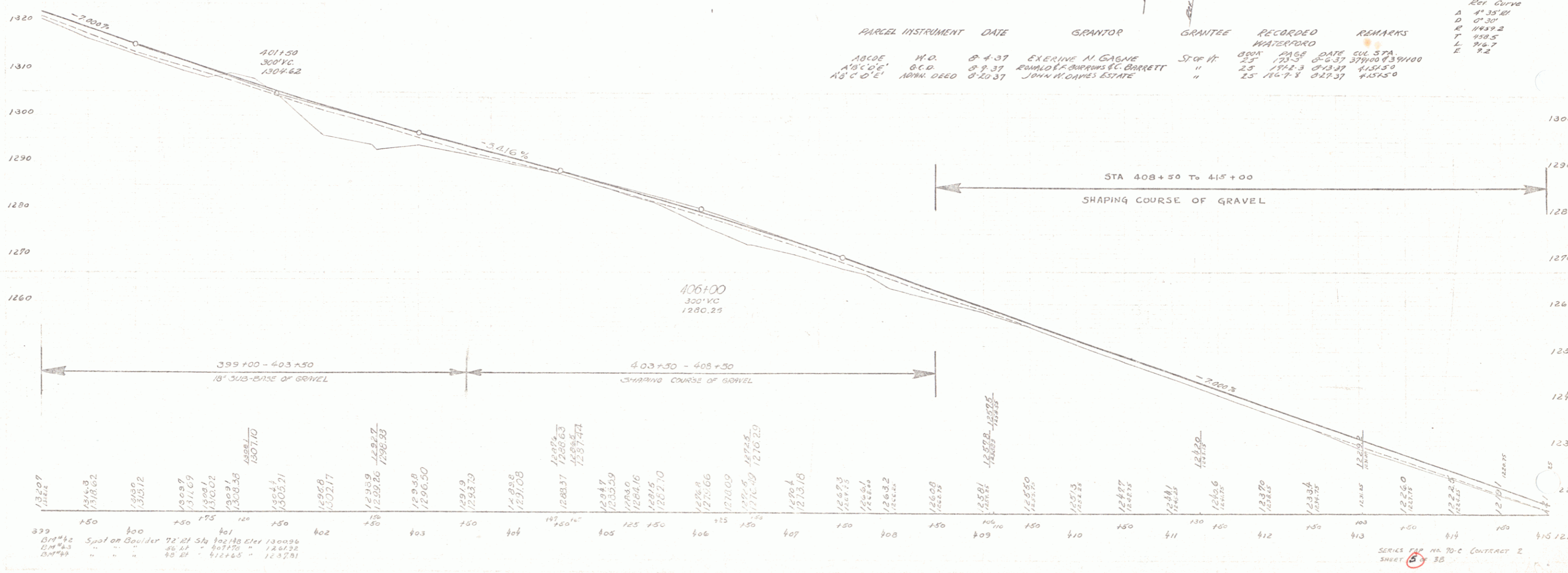
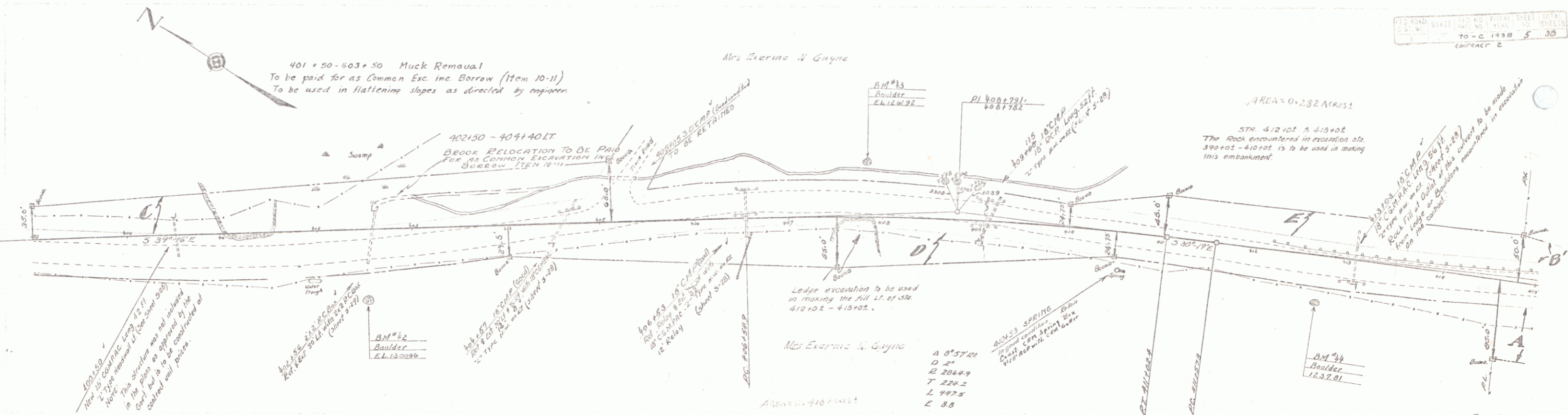
APPROVED: May 19, 1933  
*W. H. Sargent*  
DISTRICT HIGHWAY COMMISSIONER  
APPROVED: June 1, 1933  
*G. J. Prudden*  
CHIEF ENGINEER  
SERIES FAP NO. 70-C FILED  
SHEET 1 OF 34

DIST. # 7 PLANS



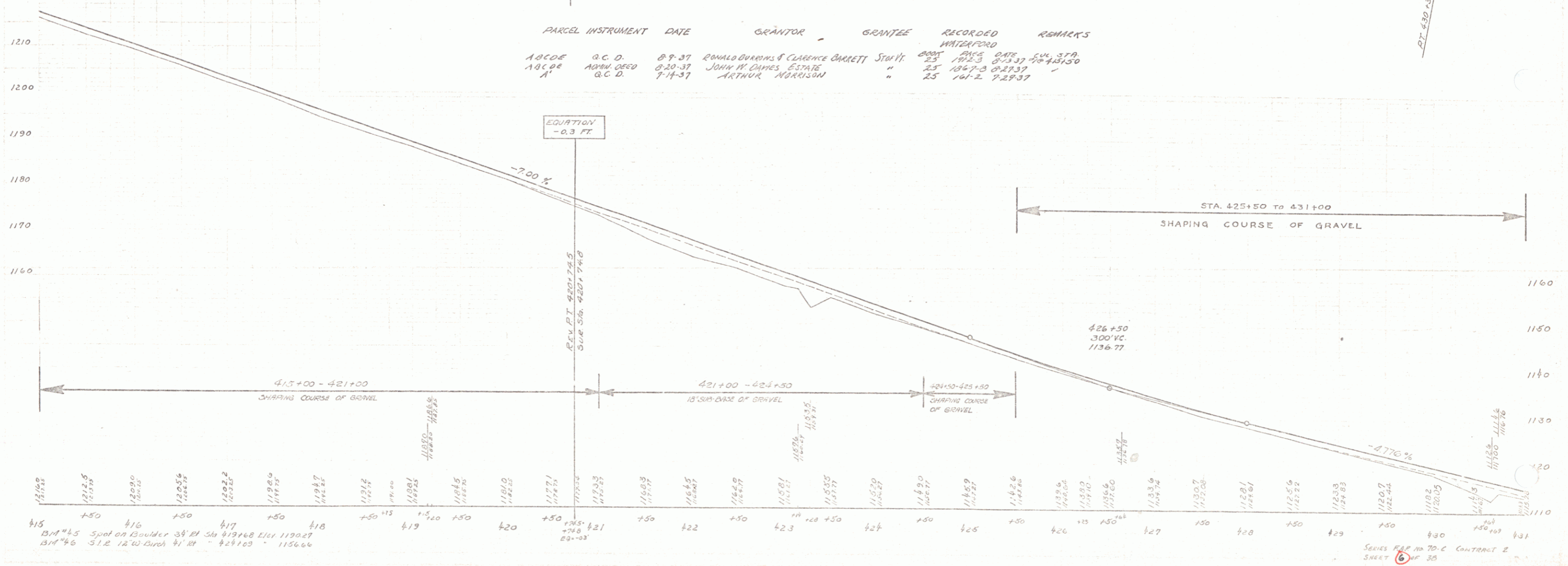
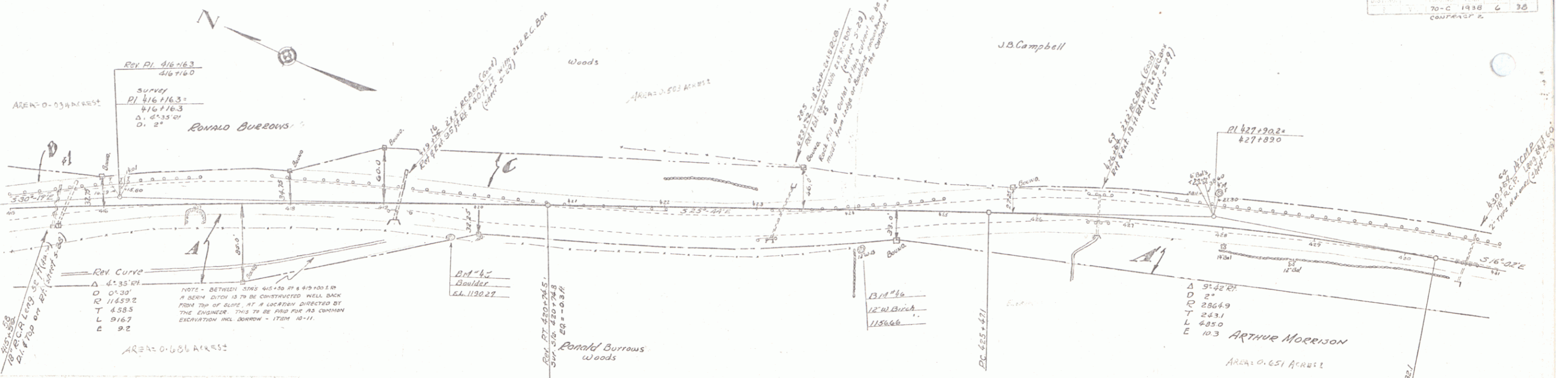
BM 39 S.I.R. of 36.71m TO R.I. 56.383462 Elev. 1229.00  
 BM 40 S.I.R. of 36.71m TO R.I. 56.383462 Elev. 1229.00  
 BM 41 S.I.R. of 36.71m TO R.I. 56.383462 Elev. 1229.00

SERIES 5-A P. NO. 70-C CONTRACT 2  
 SHEET 4 OF 38



PARCEL	INSTRUMENT	DATE	GRANTOR	GRANTEE	RECORDED	REMARKS
A B C D E	M.O.	8-4-37	EXERLINE N. GAYNE	ST. OF VT.	8804	BASE DATE 8-9-37 37900 4539100
A' B' C' D' E'	G.C.O.	8-9-37	ROMALDE BARROWS & C. BARRETT	"	25	1712.3 013.37 415150
A'' B'' C'' D'' E''	ADAM DEED	8-20-37	JOHN W. DAVES ESTATE	"	25	167.8 027.37 415150

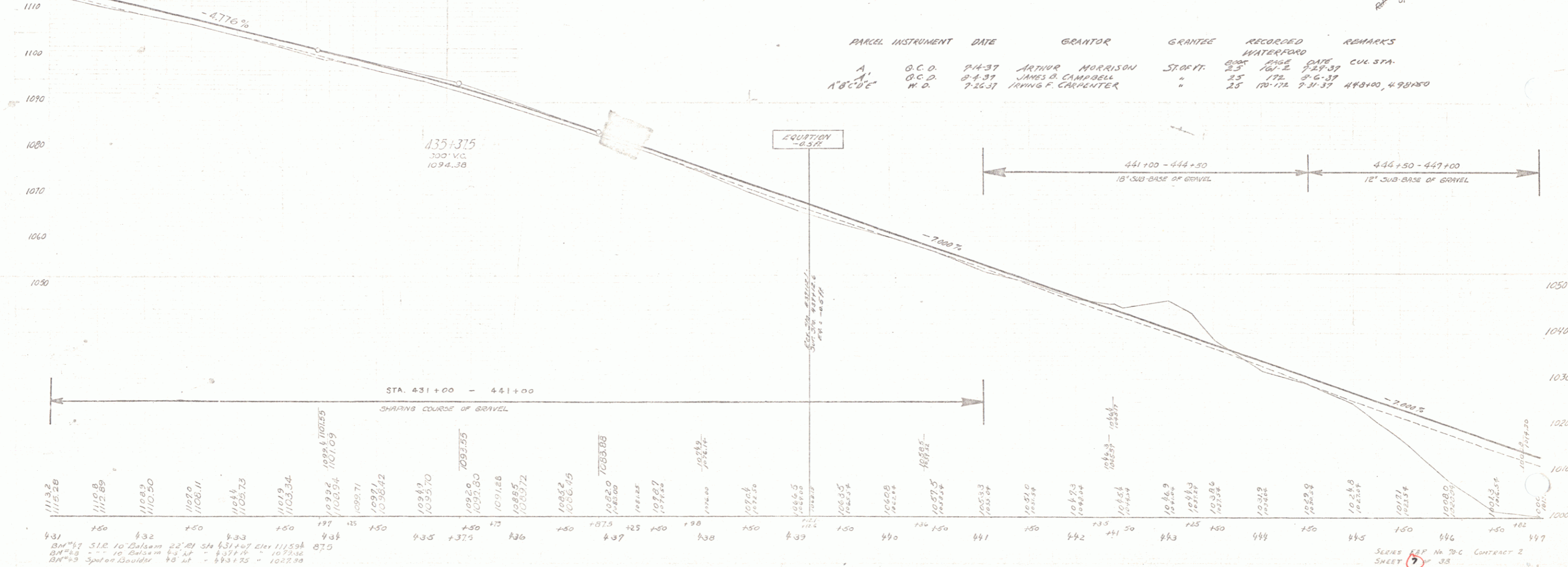
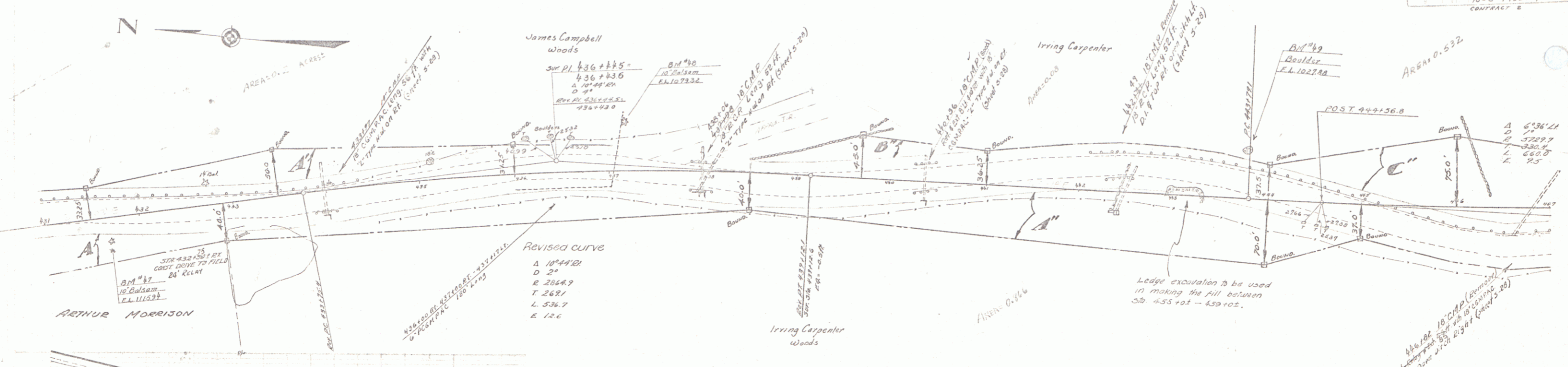
Station	Elevation	Station	Elevation
399	1320.07	402	1296.50
400	1316.62	403	1296.50
401	1304.62	404	1296.50
402	1296.50	405	1296.50
403	1296.50	406	1296.50
404	1296.50	407	1296.50
405	1296.50	408	1296.50
406	1296.50	409	1296.50
407	1296.50	410	1296.50
408	1296.50	411	1296.50
409	1296.50	412	1296.50
410	1296.50	413	1296.50
411	1296.50	414	1296.50
412	1296.50	415	1296.50
413	1296.50		
414	1296.50		
415	1296.50		



PARCEL	INSTRUMENT	DATE	GRANTOR	GRANTEE	RECORDED	REMARKS
A300E	O.C.D.	8-9-37	RONALD BURROWS & CLARENCE BARRETT	STONY	BOOK 25 PAGE 192.3	CVL. ST. 415+150
A300E	ADJUD. DEC.	8-20-37	JOHN W. DUNES ESTATE	"	25 104 P. 3 0-21-37	"
A1	O.C.D.	7-14-37	ARTHUR MORRISON	"	25 101-2 7-29-37	"

415  
 1214.5 Spot on Boulder 38' of Sta 419+68 Elev 1190.27  
 1214.6 S.L.R. 12'40" from 41.81 421+103 1196.66

SERIES FILE NO 70-C CONTRACT 2  
 SHEET 6 OF 30



PARCEL	INSTRUMENT	DATE	GRANTOR	GRANTEE	RECORDED WATERFORD	REMARKS
A	O.C.D.	9-4-37	ARTHUR MORRISON	STATE	8005	
A	O.C.D.	8-4-37	JAMES O. CAMPBELL	"	23	DATE 7-27-37 CUL STA.
A <sup>8C</sup>	W.D.	7-26-37	IRVING F. CARPENTER	"	25	DATE 7-6-37 CUL STA.

BM #47 3112 to Balsam 22' at Sta 431+00 Elev 1115.96  
 BM #8 - 10 Balsam 83' at 437+44 " 1073.46  
 BM #3 Spitzer Boulder 48' at 435+35 " 1057.99



INDEX OF SHEETS

SHEET NO.	TITLE PAGE
2	TYPICAL CROSS-SECTION OF IMPROVEMENT
3	PLAN AND PROFILE STA. 0+00 TO STA. 11+00
4	" " " 11+00 " " 24+00
5	" " " 24+00 " " 38+00
6	" " " 38+00 " " 51+00
7	" " " 51+00 " " 65+00
8	" " " 65+00 " " 75+30
9 to 22	CROSS SECTIONS

STATE OF VERMONT  
STATE HIGHWAY DEPARTMENT

POOR ORIGINAL COPY

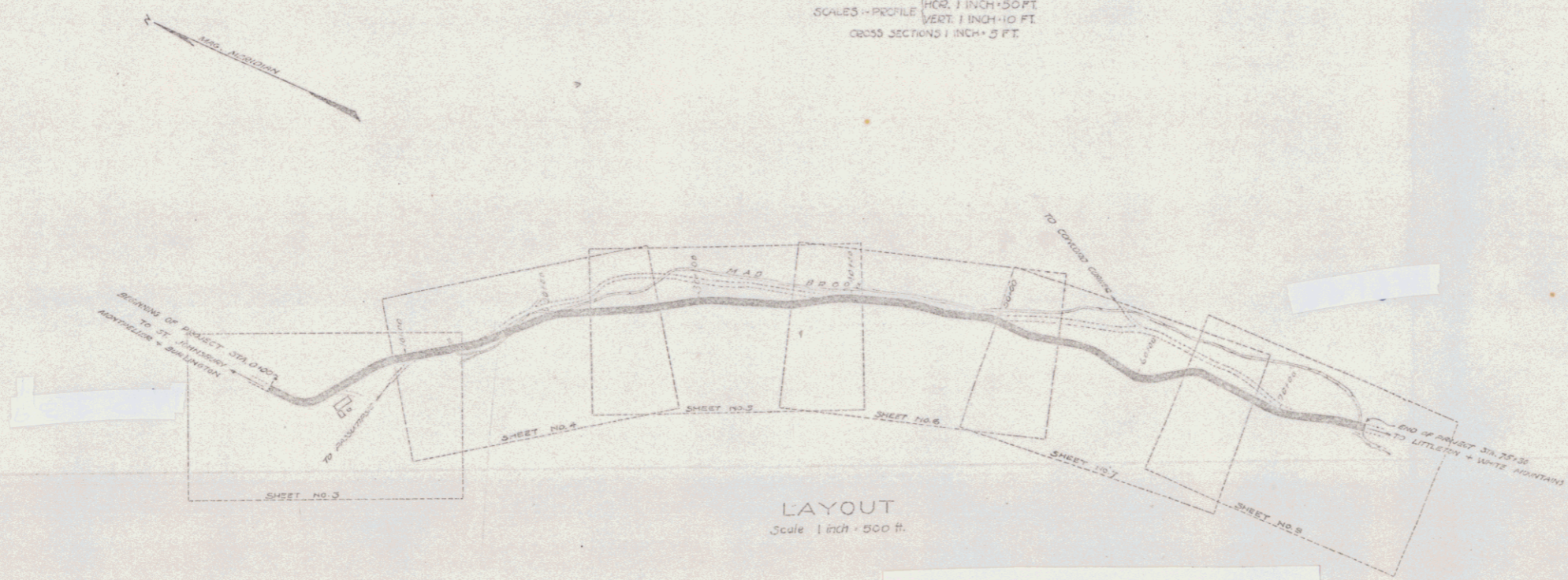
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	LOCAL PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	Vt	70C	415	1	22

PLAN AND PROFILE OF PROPOSED  
STATE HIGHWAY  
FEDERAL AID PROJECT  
**TOWN OF WATERFORD**  
HURLBURT HILL ROAD  
FROM 650 FT. NORTH OF N.P. GAGNE'S HOUSE  
TO BRIDGE AT FOOT OF HILL



(To Be Returned To R.O.W. Division)  
Town of Waterford  
Perpetual  
Right-of-Way Division

PLAN 1 INCH = 50 FT.  
VERT. 1 INCH = 50 FT.  
SCALE - PROFILE VERT. 1 INCH = 10 FT.  
CROSS SECTIONS 1 INCH = 5 FT.



LAYOUT  
Scale 1 inch = 500 ft.

CONVENTIONAL SIGNS

COUNTY LINE	-----	GROUND ELEVATION	-----
TOWN LINE	-----	GRADE ELEVATION	-----
FENCE LINE	-----		
STONE WALL	-----		
UNFENCED PROPERTY	-----		
GUARD RAIL	-----		
TRAVELED WAY	-----		
RAILROAD	-----		
RETAINING WALL	-----		
CENTER & SURVEY LINE	-----		
CULVERT	-----		
DROP INLET	-----		
TROLLEY POLE	-----		
POWER POLE	-----		
TELEPHONE POLE	-----		
TREES	-----		
HEDGE	-----		

Approved Vermont Agency  
Special Provision  
Town of Waterford  
Project R.R.P. 100  
Date: 1/10/1955  
R.H. CURRIS

APPROVED \_\_\_\_\_  
SUBMITTED BY CHIEF OF THE STATE HIGHWAY BOARD \_\_\_\_\_  
RECOMMENDED \_\_\_\_\_  
DISTRICT ENGINEER \_\_\_\_\_  
RECOMMENDED FOR APPROVAL \_\_\_\_\_  
CHIEF ENGINEER \_\_\_\_\_  
APPROVED \_\_\_\_\_  
DIRECTOR \_\_\_\_\_

SERIES 7-100000-10  
Sheet 1 of 22

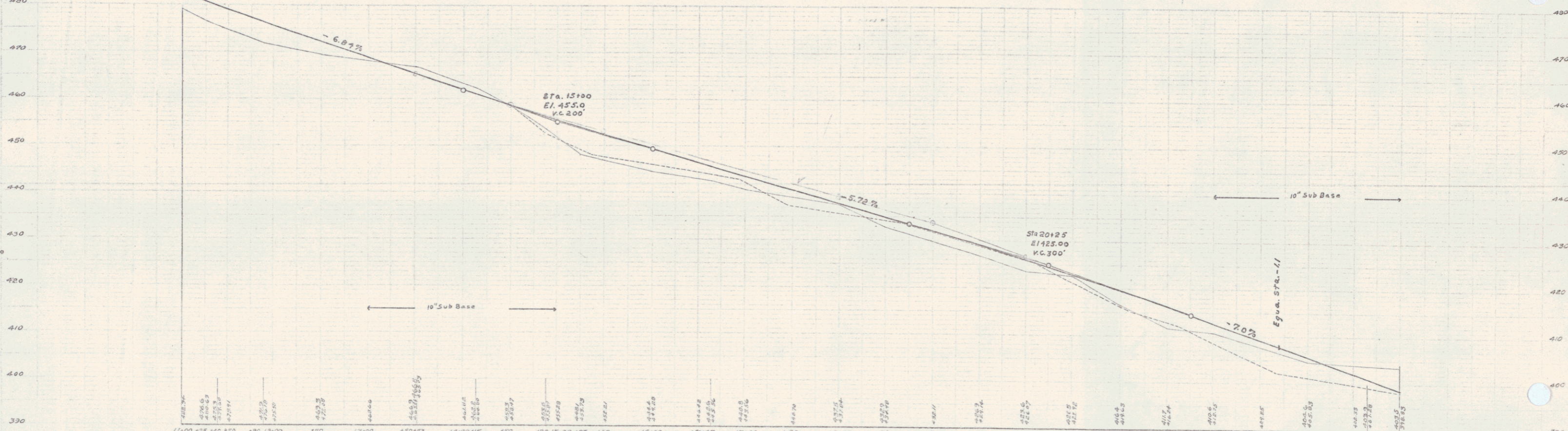
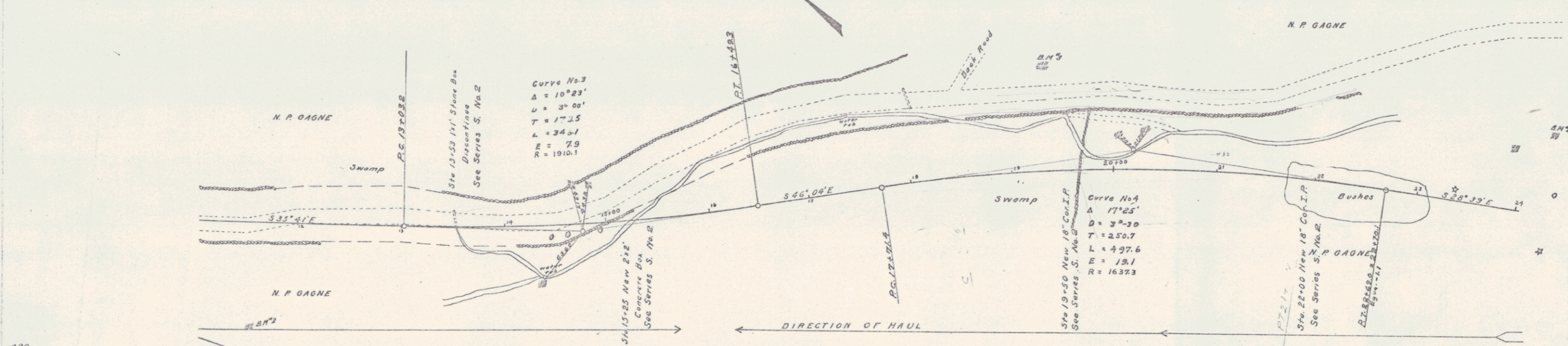
DIST. # 7 PLANS 7



GUARD RAIL REQUIRED ON LEFT	NEW CULVERTS REQUIRED	SUB-BASE REQUIRED
Sta 15+05 to 16+25 Length 120ft.	Sta 15+25 2'x2' Concrete Culvert	Sta 13+00 to 15+00 Length 200ft.
- 19+38 - 19+62 - 24'	1-2'-4" Concrete 61 cu yds	- 22+00 - 24+00 - 200'
- 20+68 - 22+44 - 176'	1-2 1/2'-5" " 80 - "	
ON RIGHT		
Sta 15+05 to 16+25 Length 120ft.	Sta 19+50 18" Cor. I.P. 28 ft.	
- 19+38 - 19+62 " 24'	1-2 1/2'-5" Concrete 17 cu yds	
- 21+88 - 22+12 - 24'	Sta 22+00 18" Cor. I.P. 30 ft.	
TOTAL THIS SHEET 980ft	1-2 1/2'-5" Concrete 16 cu yds	

DESIGN NO.	STATE	DESIGN NO.	YEAR	SHEET NO.	TOTAL SHEETS
3	VT.	70 C	1927	4	22

11/106  
 AMSTRONG  
 H. W. HERRICK  
 G. M. HOLLAND  
 Examined by AMSTRONG



B.M. #2 Drill hole in rock 100' on right of Sta. 11+55 Elev. 488.22  
 B.M. #3 Drill hole in larger boulder 100' on left of Sta. 13+35 Elev. 439.66

**GUARD RAIL REQUIRED**

**ON LEFT**  
 Sta 25+00 to 30+12 Length 512 ft  
 - 30+36 - 38+00 - 764 -  
**ON RIGHT**  
 Sta 25+08 to 26+12 Length 24 ft  
 - 31+28 - 31+32 - 24 -  
 - 35+08 - 36+12 - 24 -

**NEW CULVERTS REQUIRED**

Sta 26+00 18" Cor. I.P. 30 ft  
 1-2 1/2-5 Concrete 16 cu yd  
 Sta 31+40 2'x2' Concrete Culvert  
 1-2-4 Concrete 8 cu yd  
 1-2 1/2-5 Concrete 36 -  
 TOTAL THIS SHEET 1328 ft  
 Sta 36+00 18" Cor. I.P. 20 ft  
 1-2 1/2-5 Concrete 15 cu yd

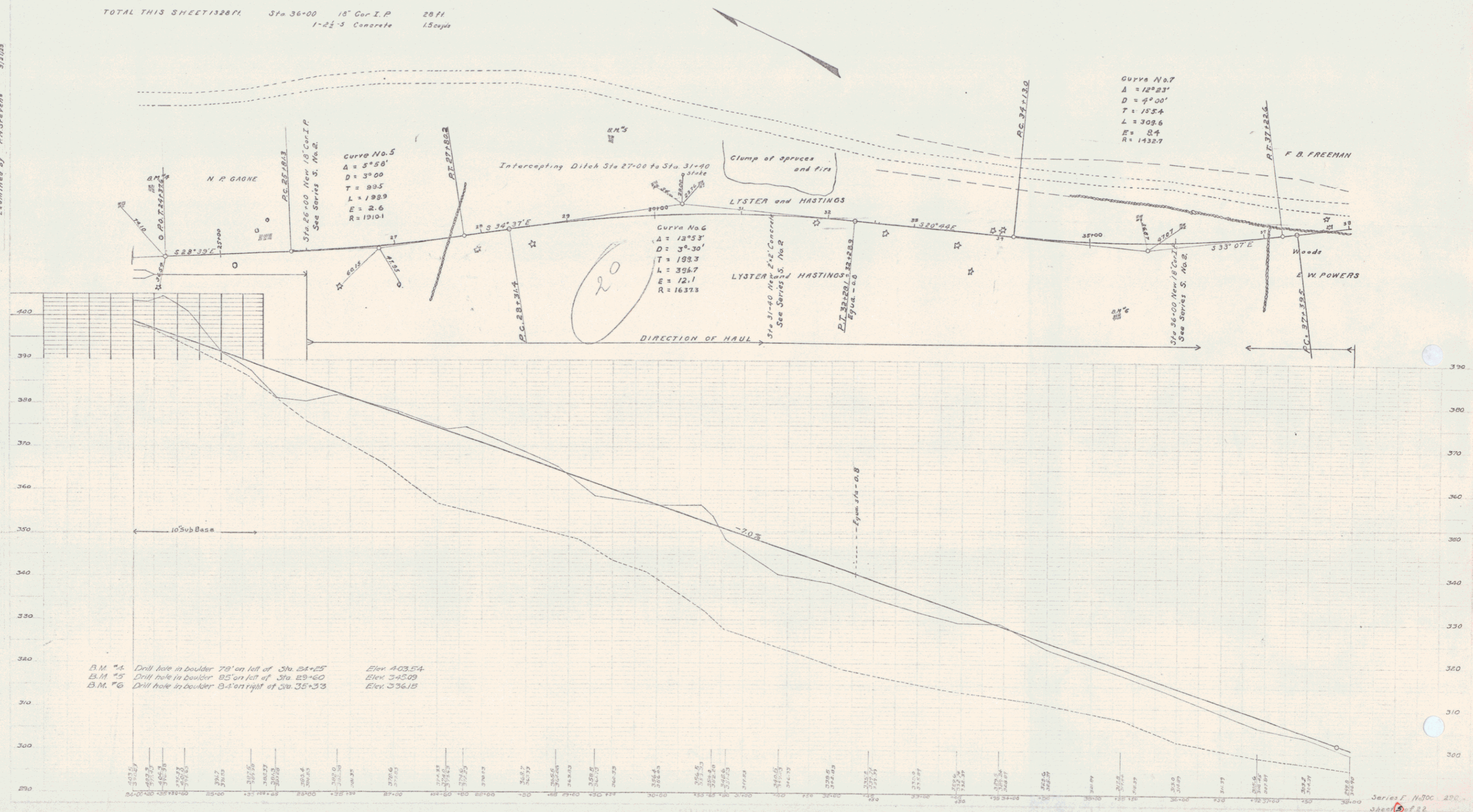
**SUB-BASE REQUIRED**

Sta 24+00 to 25+00 150 ft

NO.	DATE	BY	CHKD.	APP'D.	SCALE
9	VT	20 C	7/22/27	3	22

Checked by: P. H. Stevens  
 Date: 11/18/22

Checked by: P. H. Stevens  
 Date: 11/18/22



B.M. #4 Drill hole in boulder 70' on left of Sta 24+25 Elev 403.54  
 B.M. #5 Drill hole in boulder 85' on left of Sta 29+60 Elev 345.09  
 B.M. #6 Drill hole in boulder 84' on right of Sta 35+33 Elev 336.15



**GUARD RAIL REQUIRED**

**ON LEFT**

Sta 51+00 to Sta 51+12	Length 12ft
- 51+86 - - 61+34	- 968 -
- 63+02 - - 65+00	- 198 -

**ON RIGHT**

Sta 51+00 to Sta 51+12	- 12ft -
- 55+38 - - 55+62	- 24 -
- 59+88 - - 60+12	- 24 -
- 64+86 - - 65+00	- 14 -

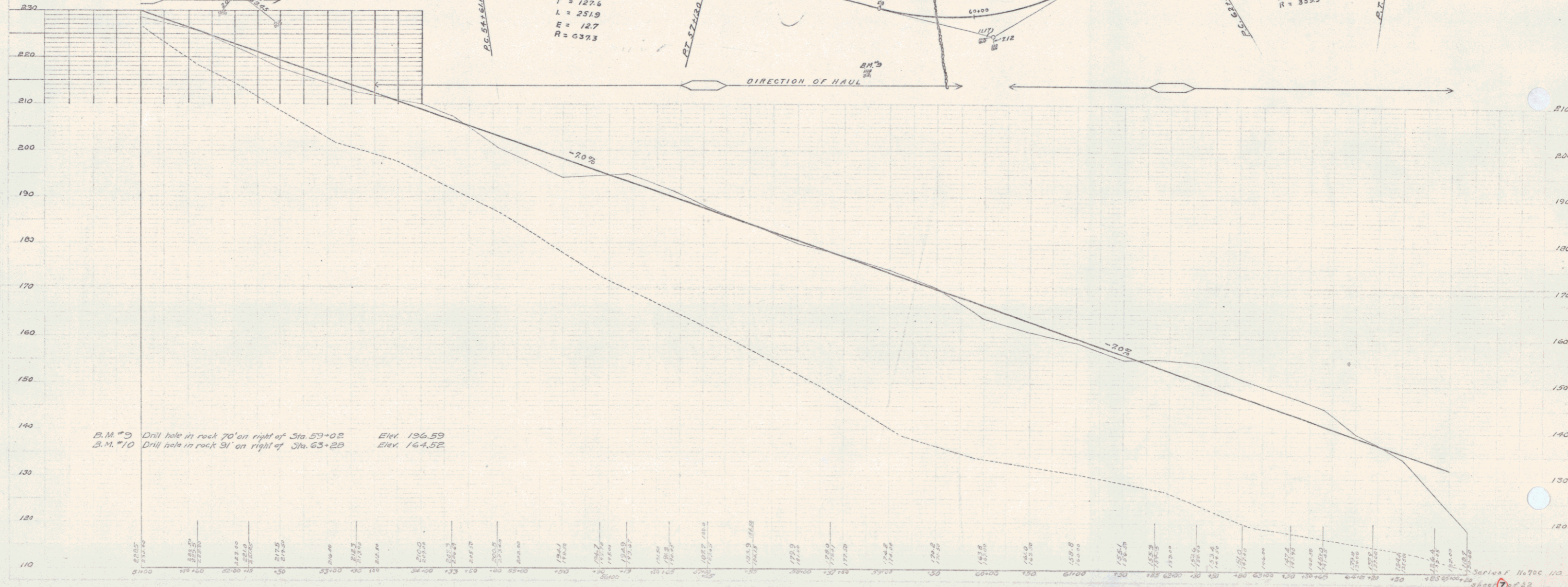
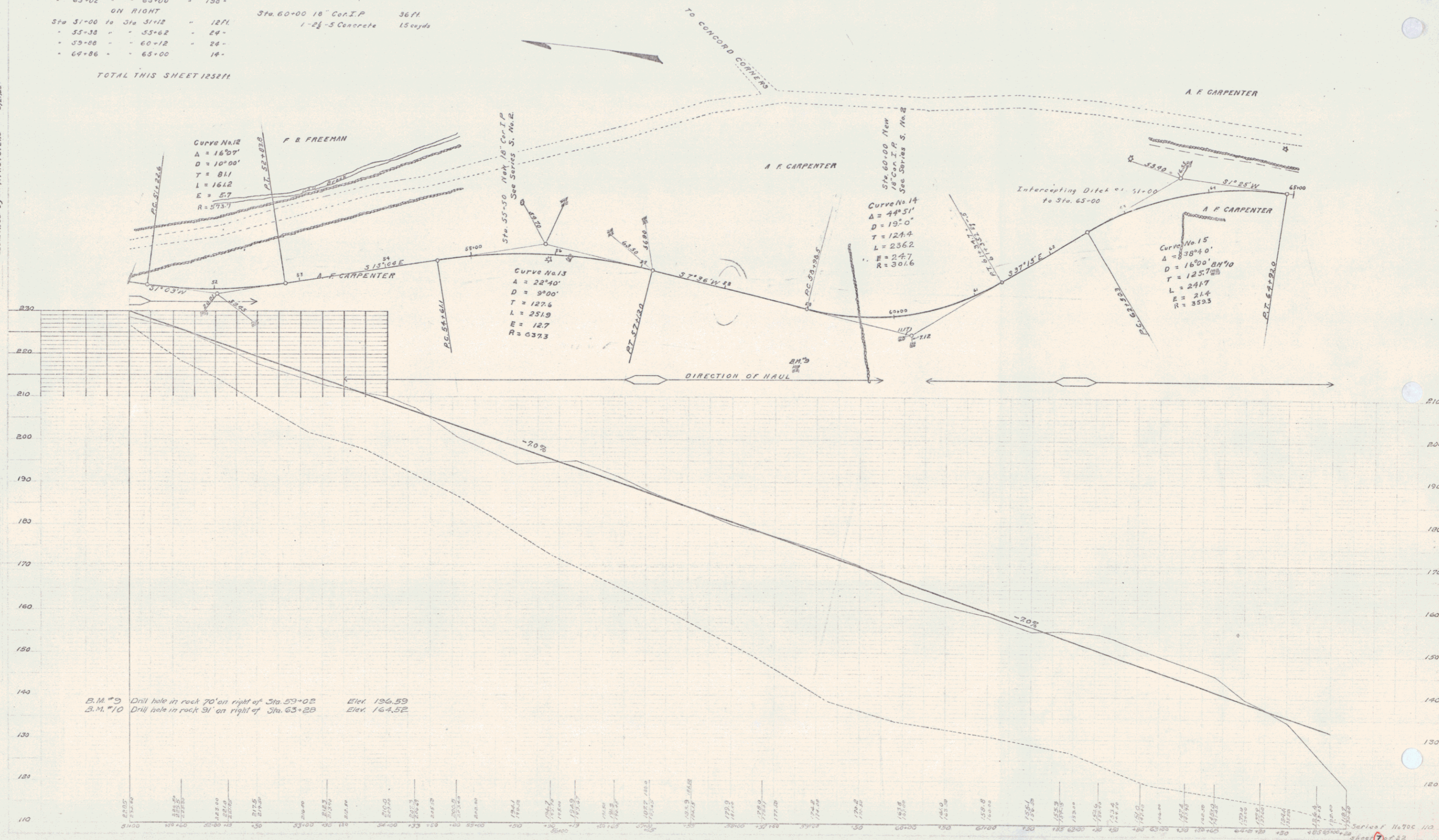
**NEW CULVERTS REQUIRED**

Sta 55+50	18" Con.I.P.	42ft
	1-2 1/2" S Concrete	19 cu yds
Sta 60+00	18" Con.I.P.	36ft
	1-2 1/2" S Concrete	15 cu yds

TOTAL THIS SHEET 1232ft

PLAN	DATE	BY	CHKD	DATE	BY
9	VT	70 C	1953	7	22

Checked by  
 A.M. Stevens  
 1/1/53  
 2/1/53  
 2/1/53  
 Examined by  
 P.M. Stevens  
 2/1/53



B.M. #9 Drill hole in rock 70' on right of Sta. 59+02 Elev. 196.59  
 B.M. #10 Drill hole in rock 91' on right of Sta. 63+28 Elev. 164.52

**GUARD RAIL REQUIRED ON LEFT**

Sta 65+00 to Sta. 66+96	Length 196ft.
- 68+75 - - 71+71	" 296 "
- 74+61 - - 75+01	- 40 "
- 75+11 - - 75+27	- 16 "

**ON RIGHT**

Sta 65+00 to Sta 66+96	Length 196ft.
- 70+63 - - 70+87	- 24 "
- 74+68 - - 75+08	- 40 "
- 75+18 - - 75+34	- 16 "

**NEW CULVERTS REQUIRED**

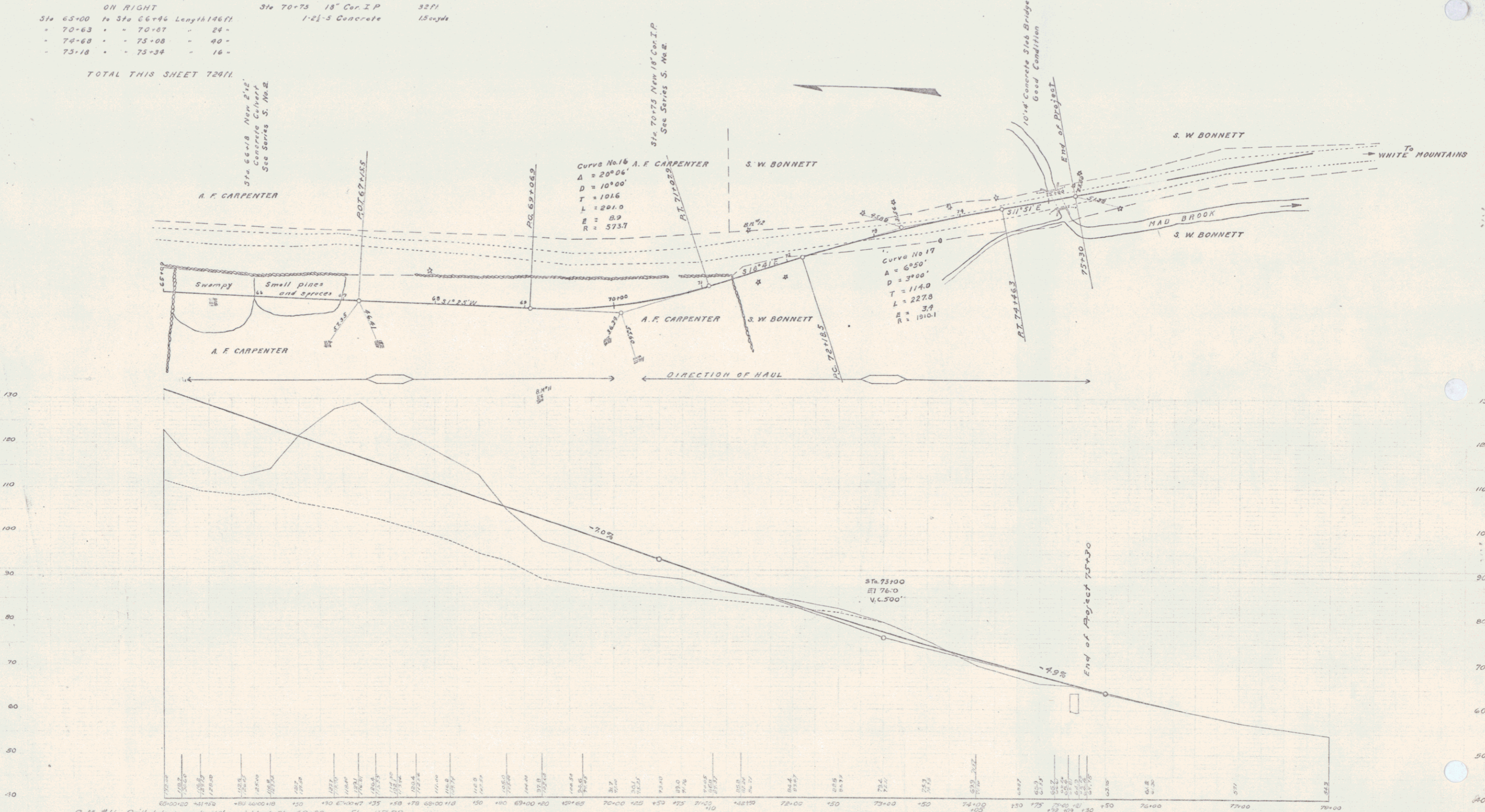
Sta 66+18	2'x2' Concrete Culvert	81cords
- 1-2-4	Concrete	93 - -
- 1-2-5	-	-
Sta 70+75	18" Cor. I.P.	32ft.
- 1-2-5	Concrete	15cords

TOTAL THIS SHEET 729ft.

DATE	BY	REVISION	NO.	TOTAL
9	VT	200	1923	22

Checked by  
 M. H. HANCOCK  
 2/10/23  
 Examined by  
 A. H. STEVENSON  
 3/10/23

Checked by  
 M. H. HANCOCK  
 2/10/23  
 Examined by  
 A. H. STEVENSON  
 3/10/23



B.M. #11 Drill hole in rock 10' on right of Sta. 69+20 El. 117.78  
 B.M. #12 Water in B" Pr. 45' on left of Sta. 71+70 El. 82.01

Series F No. 700  
 Sheet 13 of 22