

CONVENTIONAL SIGNS & ABBREVIATIONS

STATE LINE.....	EXCAVATION.....	E
COUNTY LINE.....	EMBANKMENT.....	F
TOWNSHIP LINE.....	OVERHAUL.....	H
SECTION LINE.....	SURFACING.....	S
CITY, VILLAGE, OR BOROUGH.....	GRADE RAIL.....	GR
FENCE LINE.....	INTERSECTION ANGLE.....	Δ
RIGHT-OF-WAY LINE.....	RADIUS.....	R
TRAVELLED WAY.....	ELEVATION.....	EL
RAILROADS.....	VERTICAL CURVE.....	V.C.
RETAINING WALL.....	BENCH MARK.....	B.M.
BASE OR SURVEY LINE.....	SECTIONAL CONCRETE CULVERT.....	P.C.
LEVEE.....	CORRUGATED METAL CULVERT.....	C.M.
GRAVEL PIT.....	CULVERT HAUL.....	P.H.
SAND PIT.....	TON MILES.....	T.M.
CLAY PIT.....	PLACE.....	P
ROCK QUARRY.....	IN PLACE.....	Imp.
CULVERTS.....	REPLACE.....	Rep.
PLAIN.....	RIGHT.....	R
WITH FACEWALLS.....	LEFT.....	L
WITH WINGWALLS.....	HAND DITCHING.....	H.D.
DROP INLET.....	POINT OF CURVE.....	P.C.
POWER POLE LINE.....	POINT OF TANGENT.....	P.T.
TELEPHONE OR TELEGRAPH LINE.....	POINT OF INTERSECTION.....	P.I.
MARSH.....	SPECIAL EXCAVATION.....	S.E.
HEDGE, BRUSH, OR TIMBER.....	SPECIAL FLOWING.....	S.P.
GROUND ELEVATION.....	TELEPHONE POLE.....	Tel.P.
GRADE ELEVATION.....		

OFFICE OF COUNTY SURVEYOR  
 RAMSEY COUNTY  
 Plan and Profile of County Road "F"  
 From MS MENEMY ST. To CENTERVILLE ROAD

INDEX OF SHEETS

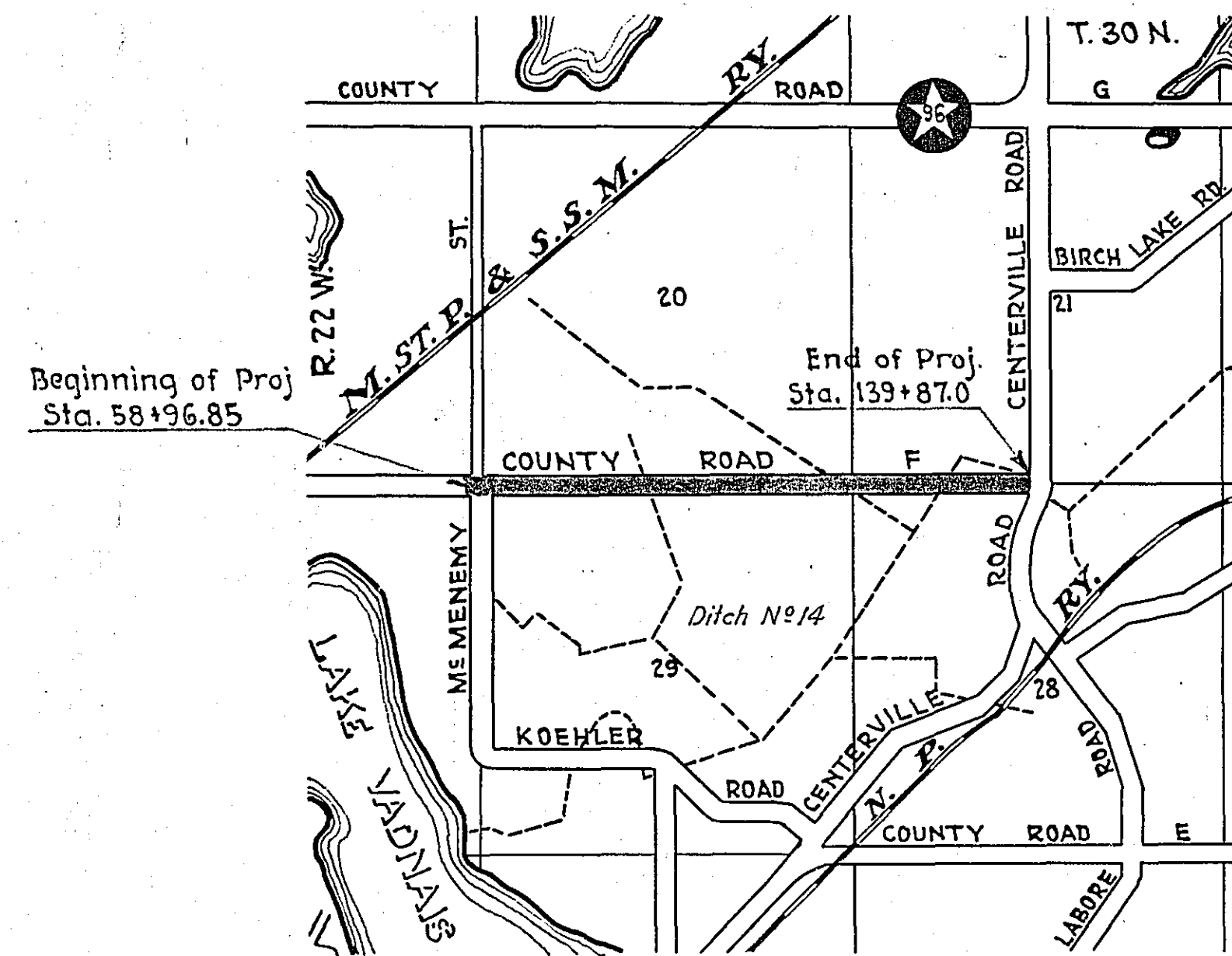
Sheet No. 1. Title Sheet and Layout Map  
 " No. 2. Typical Cross-Sections and Statement  
 " No. 3, 4 Plan and Profile, Sta. 58+96.85 to Sta. 139+87  
 " No. 5, 6, 7, 8, 9, 10 & 11 Cross Sections

NET LENGTH 8090.15 FEET 1.53 MILES

PLAN, 1 Inch = 100 Feet  
 PROFILE, Horz. 1 Inch = 100 Feet. Vert. 1 Inch = 10 Feet

SCALES WORKING PLANS (Horz. 1 Inch = 100 Feet, Vert. 1 Inch = 10 Feet)  
 (Cross-Sections, 1 Inch = 10 Feet)

LAYOUT  
 SCALE, 1 Inch = 2640 Feet

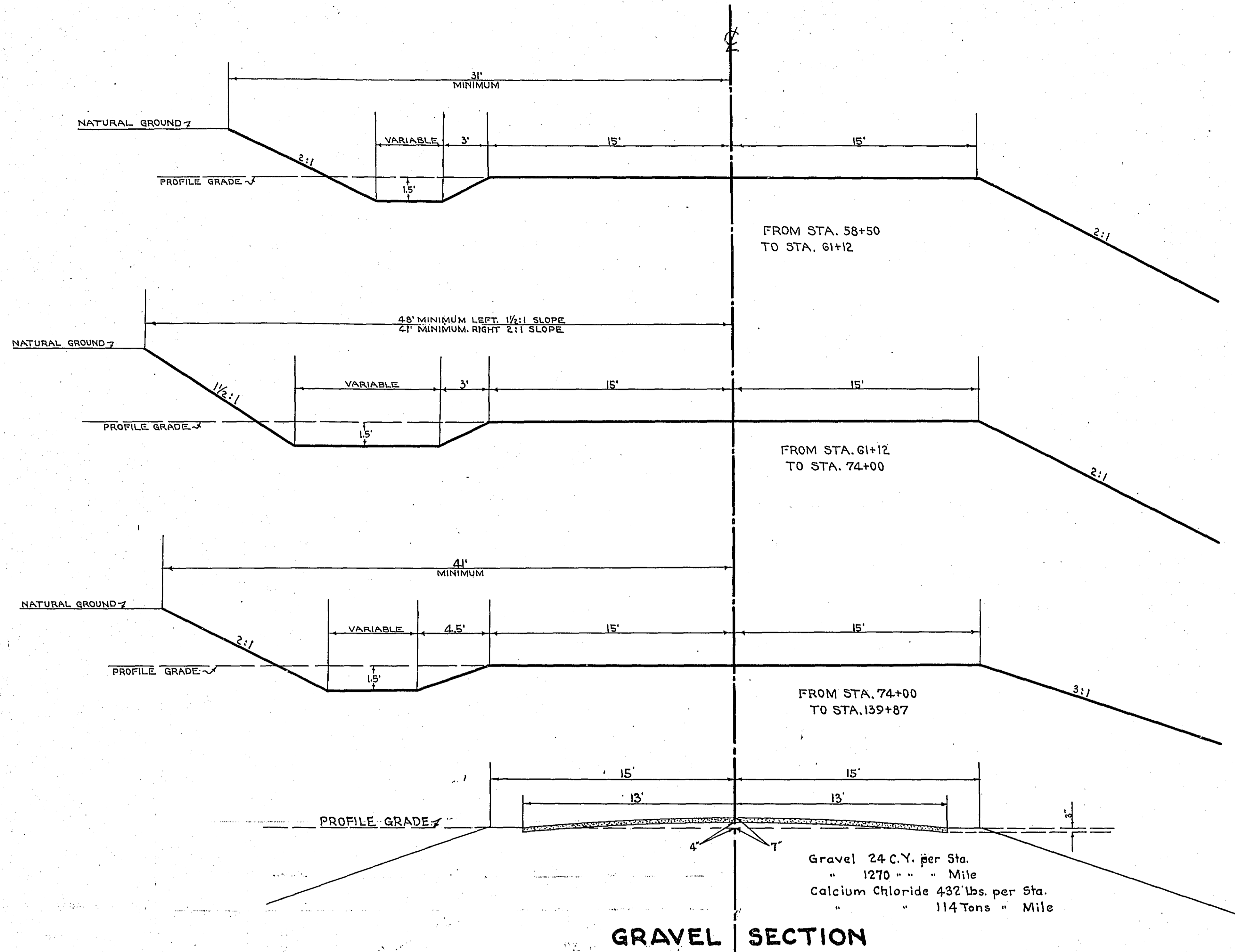


STATEMENT OF ESTIMATED QUANTITIES

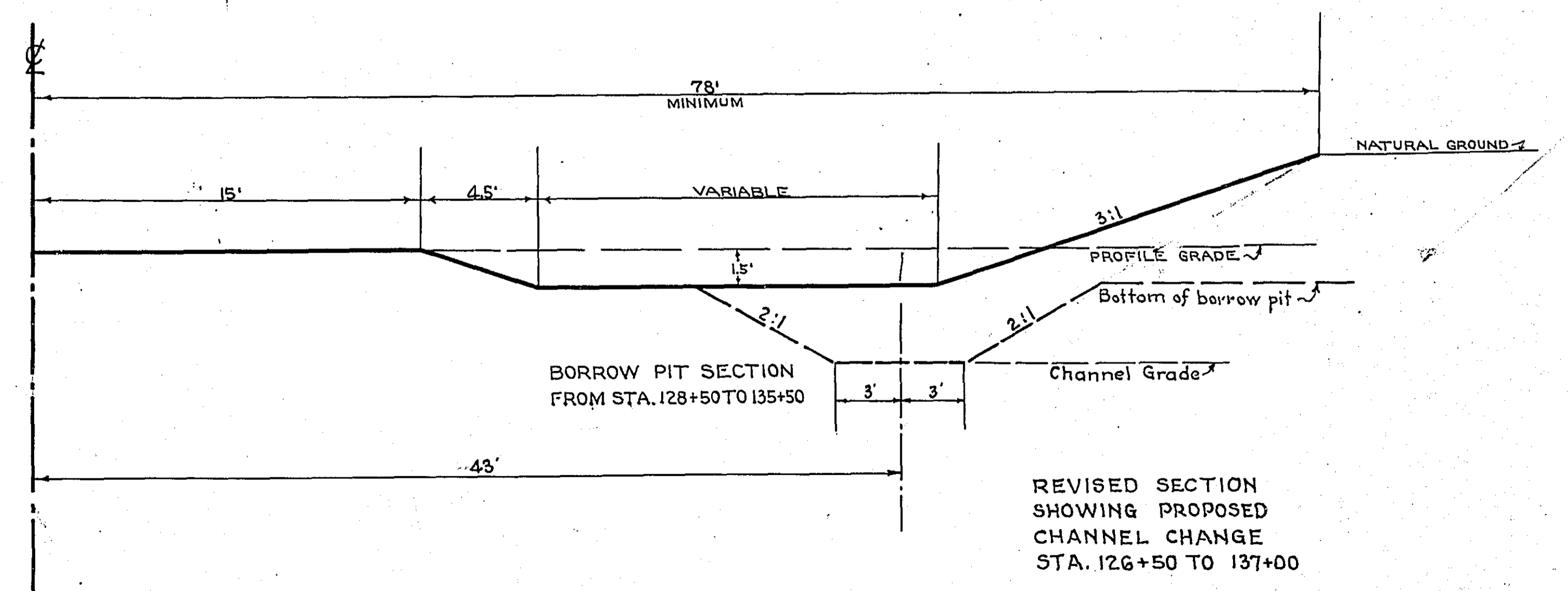
CLASS	ITEM	UNIT	MILE From To	MILE From To	MILE From To	MILE From To	MILE From To	MILE From To	MILE From To	MILE From To	MILE From To	MILE From To	TOTAL ESTIMATED QUANTITIES
GRADING	1	Clearing	Trees										
	2	Grubbing	Trees										
	3	Clearing	Acres										
	4	Grubbing	Acres										
	5	Excavation Earth	Cu. Yds.	31	184								31184
	6	Excavation Loose Rock	Cu. Yds.										
	7	Excavation Solid Rock	Cu. Yds.										
	8	Excavation Overhaul	Cu. Yds.										
	9	Excavation Special	Cu. Yds.										
	10	Excavation Hand Ditch	Cu. Yds.										
	11	Install 12" C.M.	Lin. Ft.										
	12	Install 15" C.M.	Lin. Ft.										
	13	Install 18" C.M.	Lin. Ft.										
	14	Install 24" C.M.	Lin. Ft.										230
	15	Install 30" C.M.	Lin. Ft.										50
	16	Install 36" C.M.	Lin. Ft.										184
	17	Install 18" Ps	Lin. Ft.										
	18	Install 24" Ps	Lin. Ft.										
	19	Install 30" Ps	Lin. Ft.										
	20	Install 36" Ps	Lin. Ft.										
	21	Install	Lin. Ft.										
	22	Install	Lin. Ft.										
	23	Remove Old Culvert	Lin. Ft.										
	24	Replace Old Culvert	Lin. Ft.										
	25	Finishing and Seeding	100 Sq.Yds.										
	26	Rubble Gutter	Cu. Yds.										
	27	Headwall Concrete	Cu. Yds.										
	28	Headwall Steel	Lbs.										
	29												
	30												
	31												
	32												
C.M. CULVERTS	1	Furnish 12" C.M.	Lin. Ft.										
	2	Furnish 15" C.M.	Lin. Ft.										
	3	Furnish 18" C.M.	Lin. Ft.										
	4	Furnish 24" C.M.	Lin. Ft.										
	5	Furnish	Lin. Ft.										
	6	Furnish	Lin. Ft.										
	7	Furnish 12" C.M. Band	Each										
	8	Furnish 15" C.M. Band	Each										
	9												
	10												
P <sub>2</sub> CULVERTS	1	Furnish 18" Ps	Lin. Ft.										
	2	Furnish 24" Ps	Lin. Ft.										
	3	Furnish 30" Ps	Lin. Ft.										
	4	Furnish 36" Ps	Lin. Ft.										
	5												
	6												
GUARD RAIL	1	Guard Rail - Cable	Lin. Ft.										
	2	Guard Rail Anchors	Each										
	3	Dummy Posts	Each										
	4												
SIDEWALKS AND CURBING	1	Concrete Curb - Straight	Lin. Ft.										
	2	Concrete Curb - Radius	Lin. Ft.										
	3	Remove Old Curb	Lin. Ft.										
	4	Remove Old Curb and Gutter	Lin. Ft.										
	5	Remove Old Sidewalk	Sq. Ft.										
	6	Replace Old Sidewalk	Sq. Ft.										
	7	Construct New Sidewalk	Sq. Ft.										
	8	Curb Inlet	Each										
	9	Catch Basin Complete	Each										
	10												
	11												
	12												
SEWER	1	12" Vitrified Sewer Pipe	Lin. Ft.										
	2	15" Vitrified Sewer Pipe	Lin. Ft.										
	3	18" Vitrified Sewer Pipe	Lin. Ft.										
	4	20" Vitrified Sewer Pipe	Lin. Ft.										
	5	24" Vitrified Sewer Pipe	Lin. Ft.										
	6	Manhole Complete	Each										
	7	Catch Basin Complete	Each										
	8												
	9												
	10												
PAVEMENT	1	Pavement - 1 Course Conc.	Sq. Yds.										
	2	Pavement - Asphaltic Conc.	Sq. Yds.										
	3	Integral Curb 8"	Lin. Ft.										
	4	Integral Curb 12"	Lin. Ft.										
	5	Surface Drain	Each										
	6	Surface Drain Basin	Each										
	7	Shoulders - Earth	Lin. Ft.										
	8												
STRUCTURES	1	Concrete	Cu. Yds.										
	2	Reinforcing Steel	Lbs.										
	3	Excavation	Cu. Yds.										
	4	Piling	Lin. Ft.										
	5												
	6												
	7												
	8												
	9												
	10												

DETAILS

GRADING SECTIONS



GRAVEL SECTION



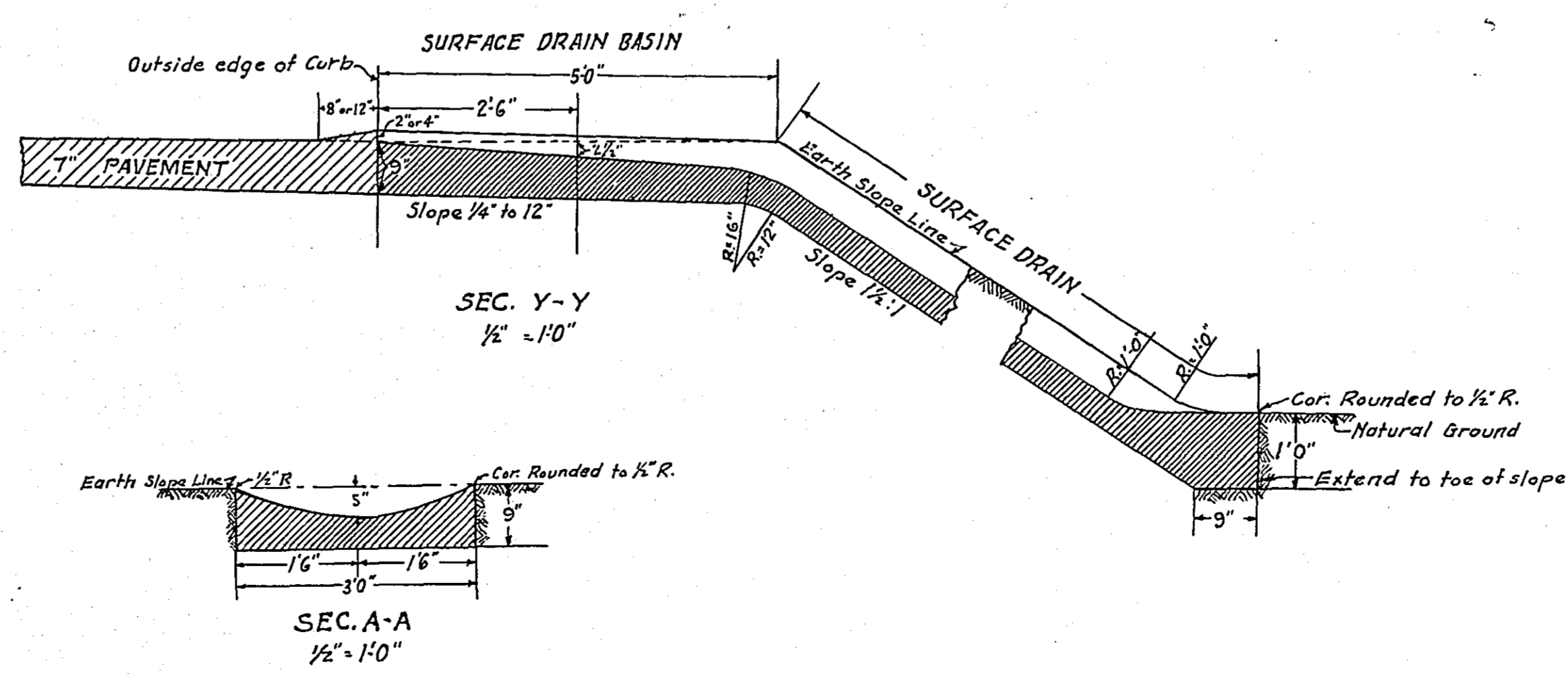
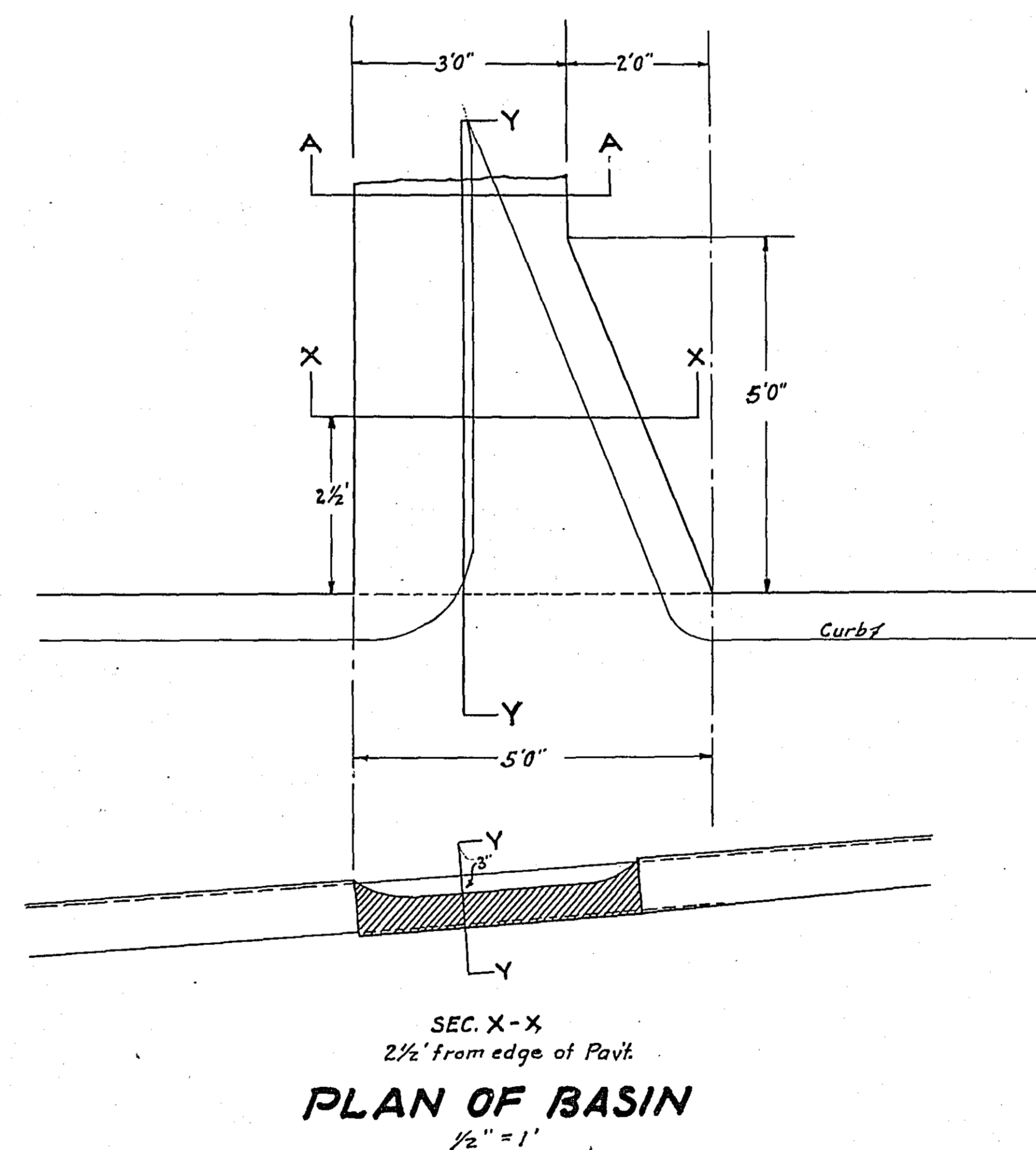
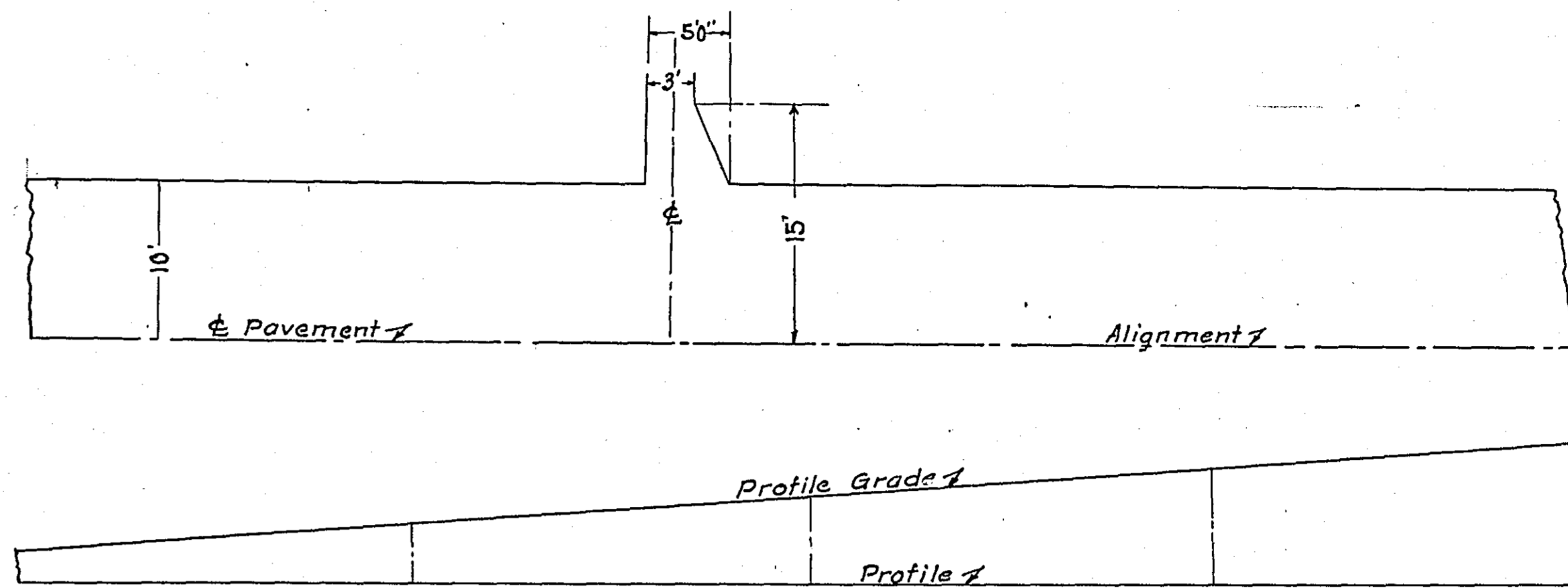
REVISED SECTION SHOWING PROPOSED CHANNEL CHANGE STA. 126+50 TO 137+00

STATEMENT OF ESTIMATED QUANTITIES

CLASS	ITEM	UNIT	MILE From To	MILE From To	MILE From To	MILE From To	MILE From To	MILE From To	MILE From To	MILE From To	MILE From To	MILE From To	TOTAL ESTIMATED QUANTITIES
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	25	Finishing and Seeding	100 Sq.Yds.										
	26	Rubble Gutter	Cu. Yds.										
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	6	Furnish	Lin. Ft.										
	7	Furnish 12" C.M. Band	Each										
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	4	Filing	Lin. Ft.										
	5												
	6												
	7												
	8												
	9												
	10												

DETAILS

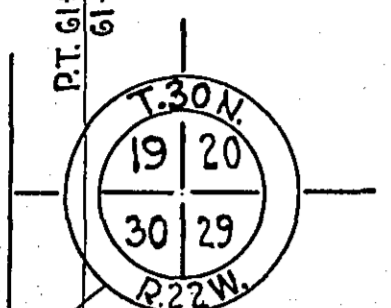
PAVEMENT SURFACE DRAIN ON GRADE  
ON CENTERVILLE RD. 40 FT. NORTH OF CO. RD. "F"



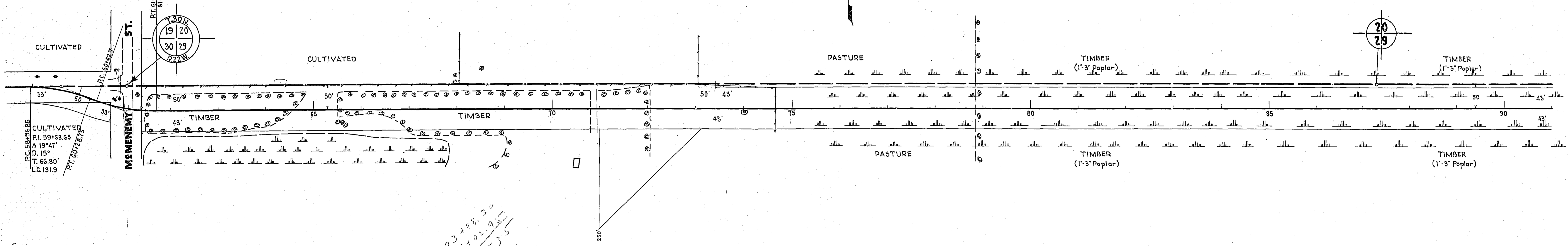
67+25 ± PI. 15' x 36' C.M.      70+85 R.I. PI. 12' x 20' C.M.      83+50 ± PI. 24' x 50' C.M.

PI. 61+10.25  
 Δ 20° 00'  
 D. 15'  
 T. 67.55'  
 L.C. 133.33'

PT. CENTER = EQUA.  
 PT. 61+10.25



PLAN  
 SURVEYED BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 CHECKED BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 NOTE: HOOD ALONGSIDE CHECKED  
 INT. OF WAY CHECKED  
 NO. \_\_\_\_\_



*73+48.30  
 61+02.95  
 12+45.33*

PROFILE  
 SURVEYED BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 CHECKED BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 NOTE: HOOD ALONGSIDE CHECKED  
 INT. OF WAY CHECKED  
 NO. \_\_\_\_\_

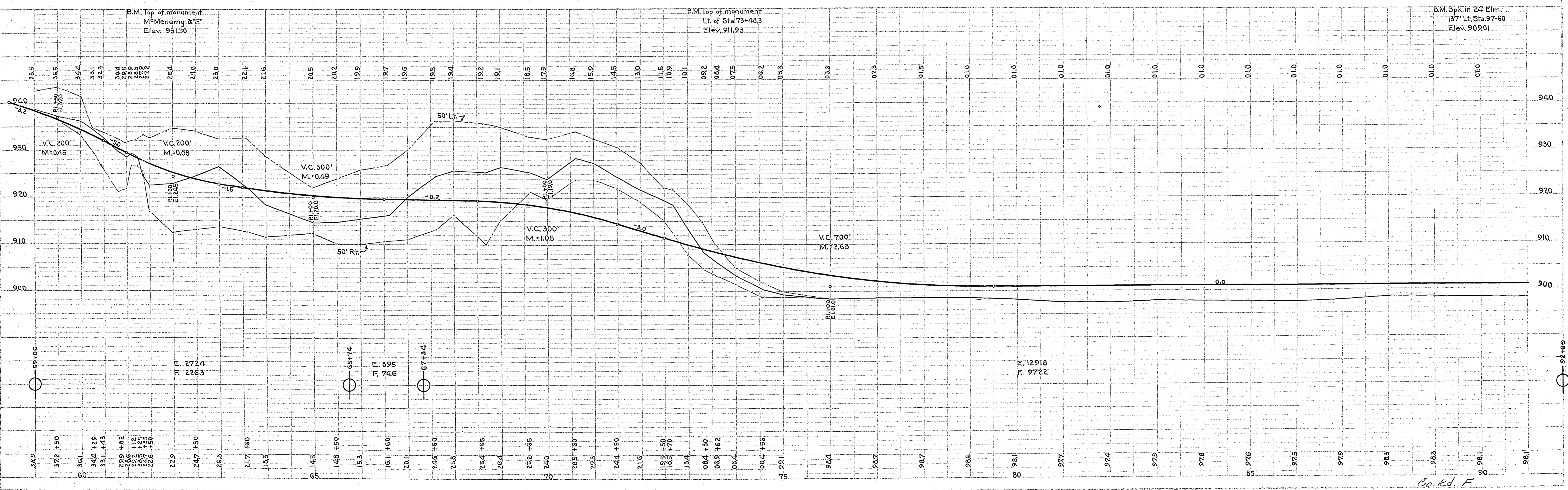
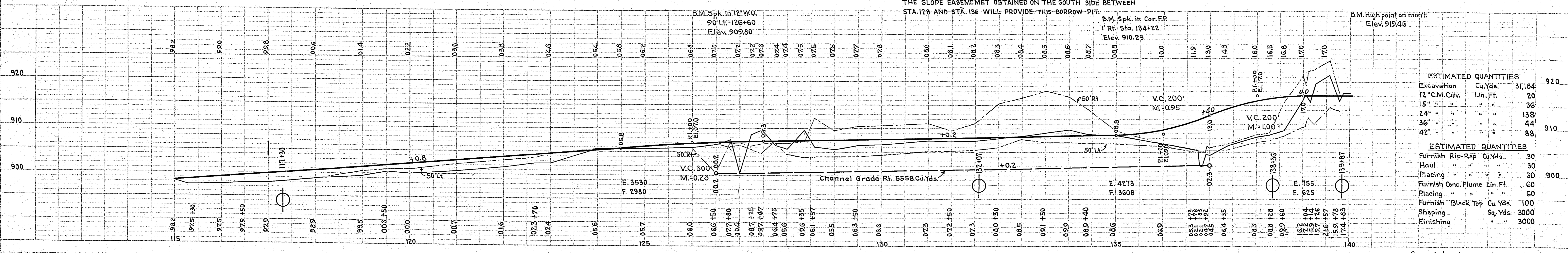
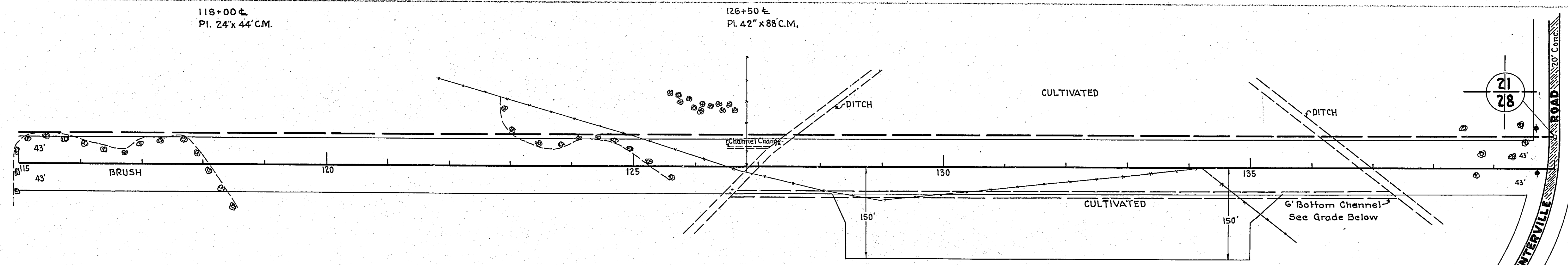
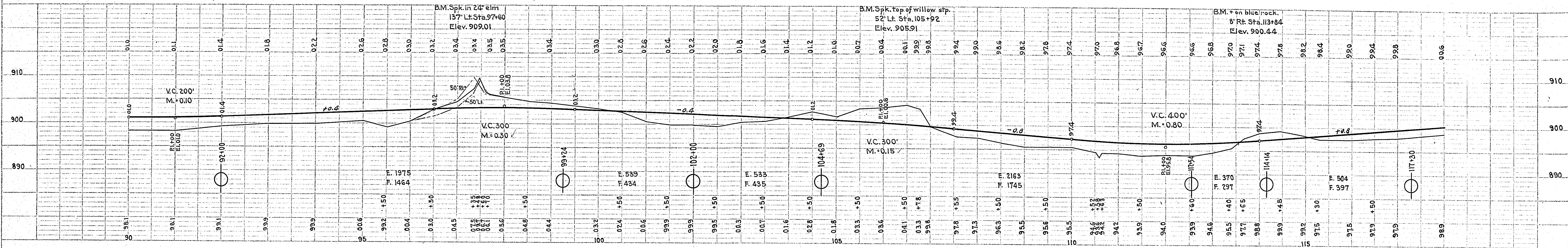
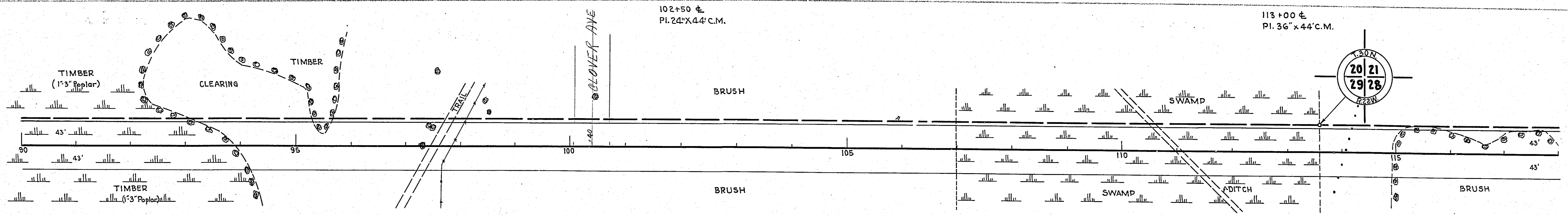


PLATE 1 - PLAN - PROFILE G. R. R. & P. E. STANDARD  
 RUFFEL & KESLER CO., NEW YORK



OWING TO THE CHARACTER OF THE SOIL ON THIS PROJECT, IT IS ANTICIPATED THAT A QUANTITY OF APPROXIMATELY 18,000 CU. YDS. OF BORROW WILL BE REQUIRED OVER AND ABOVE THE QUANTITIES AS SHOWN ON THESE PLANS. THE SLOPE EASEMENT OBTAINED ON THE SOUTH SIDE BETWEEN STA: 128 AND STA: 136 WILL PROVIDE THIS BORROW PIT.

ESTIMATED QUANTITIES		
Excavation	Cu. Yds.	31,184
12" C.M. Culv.	Lin. Ft.	20
15" " "	" "	36
24" " "	" "	138
36" " "	" "	44
42" " "	" "	88
ESTIMATED QUANTITIES		
Furnish Rip-Rap	Cu. Yds.	30
Haul	" "	30
Placing	" "	30
Furnish Conc. Flume	Lin. Ft.	60
Placing	" "	60
Furnish Black Top	Cu. Yds.	100
Shaping	Sq. Yds.	3000
Finishing	" "	3000

PLAN  
 NOTE: SEE PLAN FOR ALL NOTES.  
 DATE: 10/20/2010  
 BY: [Signature]

PROFILE  
 NOTE: SEE PLAN FOR ALL NOTES.  
 DATE: 10/20/2010  
 BY: [Signature]