

CONVENTIONAL SIGNS & ABBREVIATIONS

STATE LINE	EXCAVATION	F
COUNTY LINE	EMBANKMENT	F
TOWNSHIP LINE	OVERHAUL	H
SECTION LINE	SURFACING	S
CITY, VILLAGE, OR BOROUGH	GUARD 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	Inp.
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 PLOWING	S.P.
GROUND ELEVATION	TELEPHONE POLE	Tel.P.
GRADE ELEVATION		

OFFICE OF COUNTY SURVEYOR

RAMSEY COUNTY

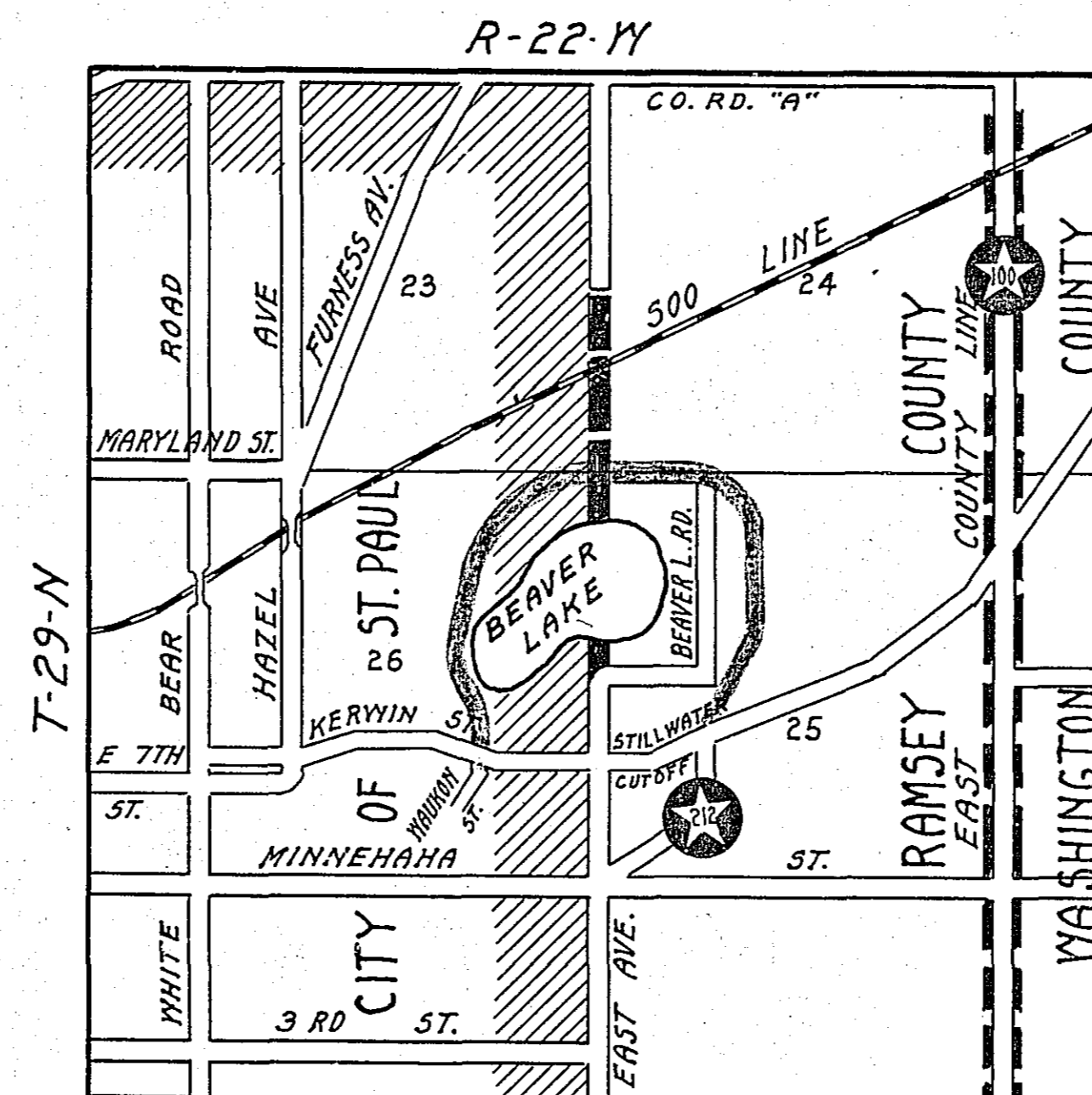
Plan and Profile of County Project No. *BEAVER L. PARK ROAD*

From *STILLWATER ROAD* To *KERYVIN ST.*

GROSS LENGTH 8418.60 FEET 1.59 MILES
 LENGTH OF EXCEPTIONS FEET MILES
 NET LENGTH 8418.60 FEET 1.59 MILES

SCALES
 PLAN, 1 Inch = 100 Feet
 PROFILE, Horz. 1 Inch = 100 Feet. Vert. 1 Inch = 10 Feet
 WORKING PLANS { Horz. 1 Inch = 100 Feet
 Vert. 1 Inch = 10 Feet
 Cross-Sections, 1 Inch = 10 Feet

LAYOUT
 SCALE, 1 Inch = 2640 Feet



NOTE: Gravel to be hauled from the Ramsey Co. Pit at the State Fair Grounds.
 Binder soil to be taken from cut on Project bet. Sta. 79+37 and 82+88

INDEX OF SHEETS

Sheet No. 1.	Title Sheet and Layout Map
" No. 2.	Typical Cross-Sections and Statement
" No. 3.	Plan and Profile, Sta. to Sta.
" No. 4.	

Date of Resolution for Preparation of Plans _____ 19__

Planned by *A. W. Lindvall*
PROJECT ENGINEER

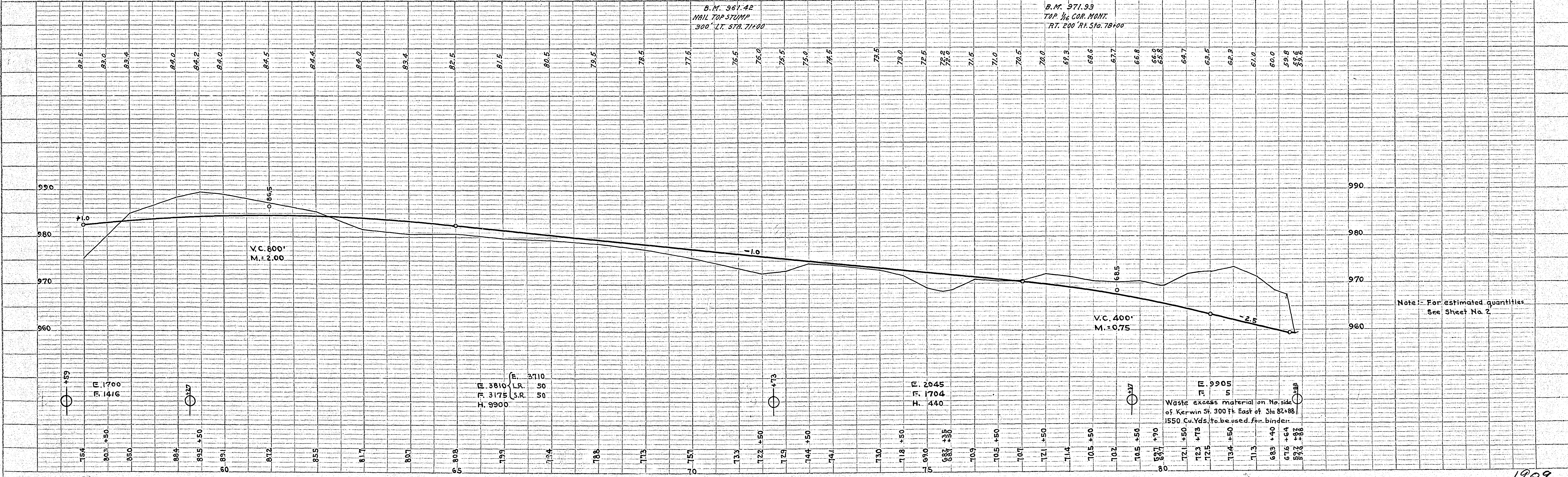
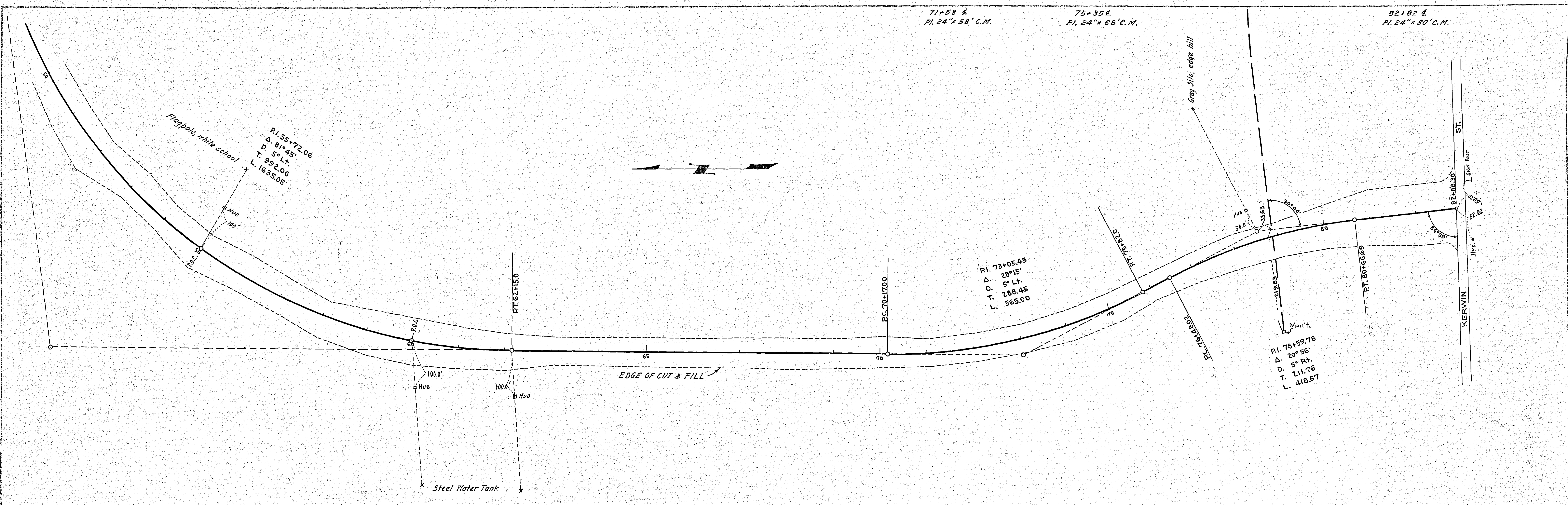
Recommended for Approval _____
MAINTENANCE ENGINEER

Plans Approved and Recommended for Consideration _____
COUNTY SURVEYOR

Approved by County Board _____ 19__
CHAIRMAN OF COUNTY BOARD

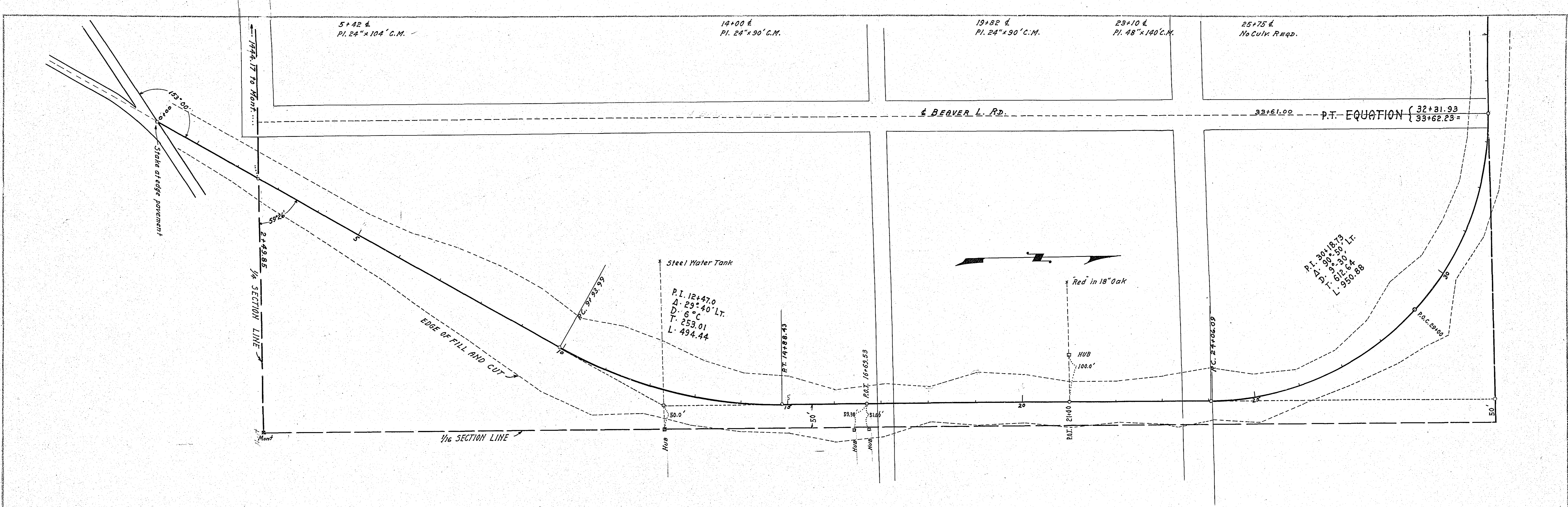
PLAN	SURVEYED	DATE
	PLOTTED	BY
	NOTED	CHECKED
	NO.	NO.

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	NOTED	CHECKED
	NO.	NO.

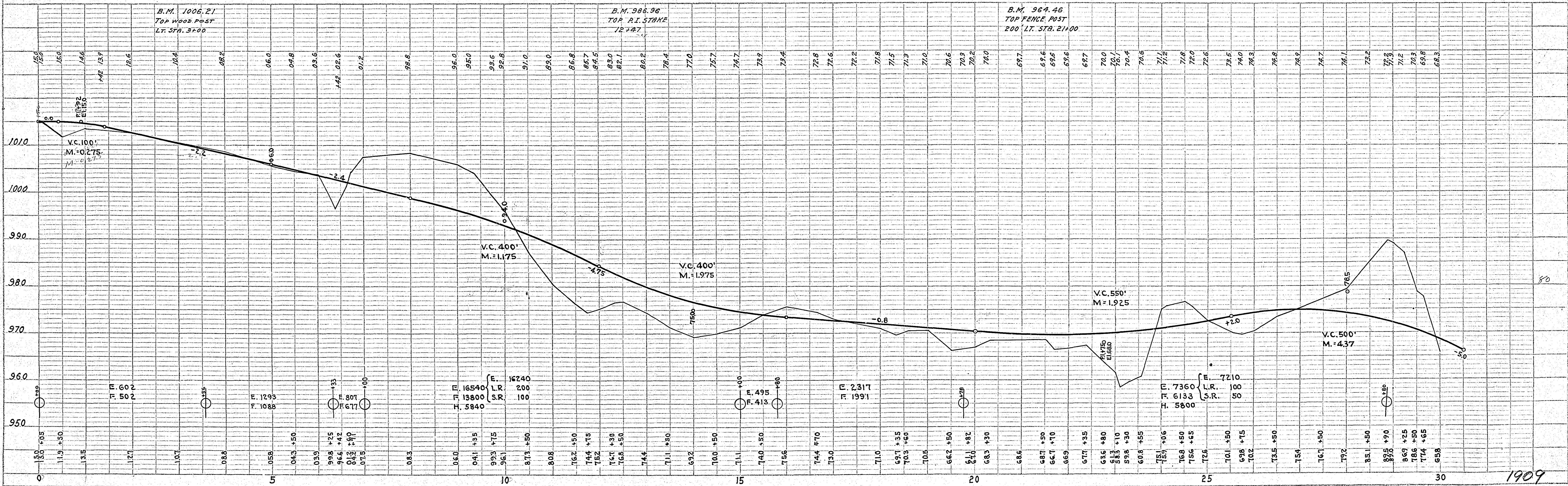


Note: For estimated quantities see Sheet No. 2

PLAN SURVEYED BY DATE
 PLOTTED BY
 NOTE BOOK NO.
 ALIGNMENT CHECKED BY
 RT. OF WAY CHECKED BY

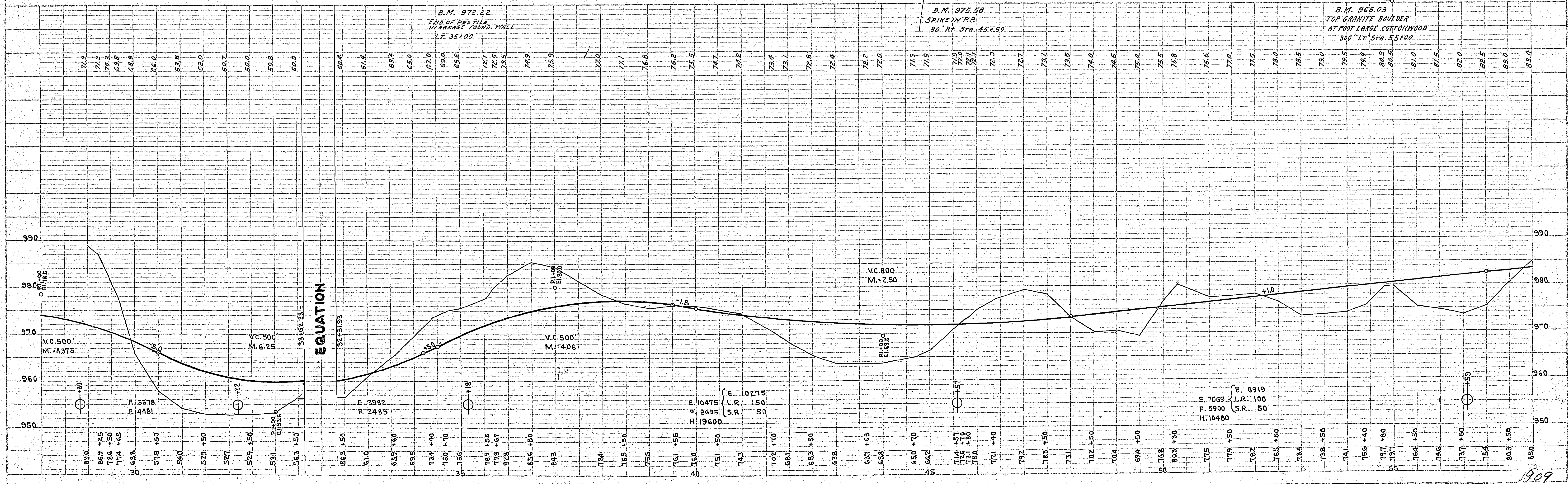
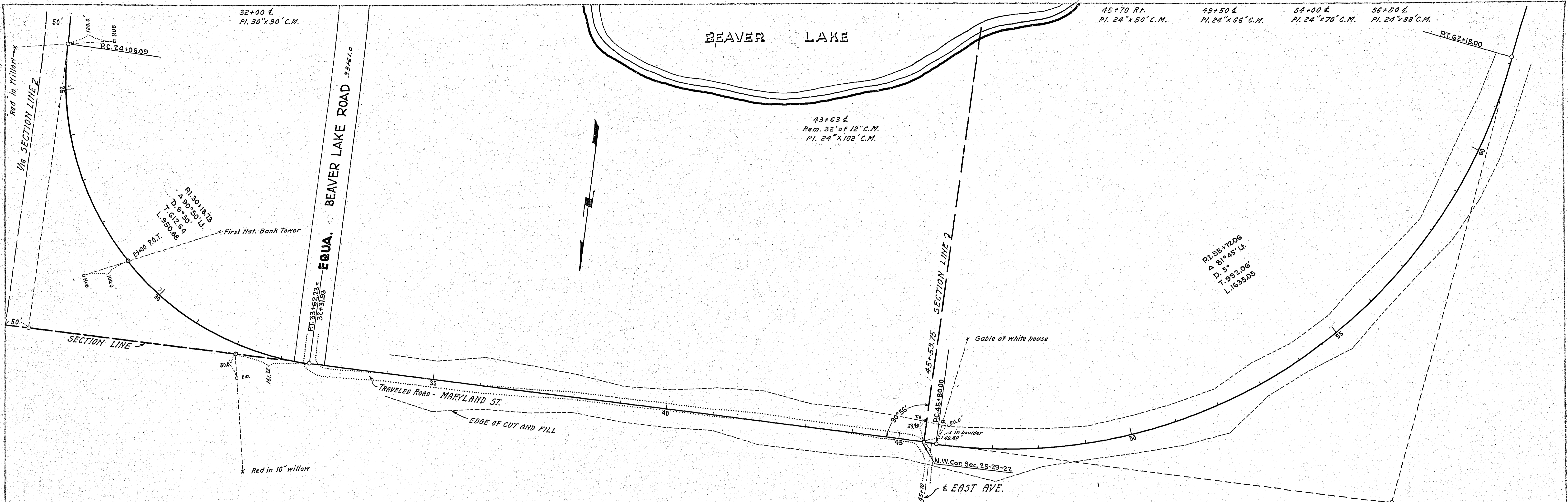


PROFILE SURVEYED BY DATE
 PLOTTED BY
 NOTE BOOK NO.
 GRADES CHECKED BY
 E.M.S. NOTED BY
 STRUCTURE NOTATIONS CHECKED BY



PLAN
 REVISIONS
 DATE
 BY
 NO.
 STRUCTURE NOTATIONS CHKD.
 NO.
 F. 10475
 L.R. 150
 S.R. 50
 H. 19600

PROFILE
 REVISIONS
 DATE
 BY
 NO.
 STRUCTURE NOTATIONS CHKD.
 NO.
 F. 10475
 L.R. 150
 S.R. 50
 H. 19600



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	MILE From To	TOTAL ESTIMATED QUANTITIES	
GRADING	1	Clearing	Trees												
	2	Grubbing	Trees												
	3	Clearing	Acres												
	4	Grubbing	Acres												
	5	Excavation Earth	Cu. Yds.	71878										71878	
	6	Excavation Loose Rock	Cu. Yds.	600										600	
	7	Excavation Solid Rock	Cu. Yds.	300										300	
	8	Excavation Overhaul	Cu. Yds.	52060										52060	
	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.	100										100	
	13	Install 18" C.M.	Lin. Ft.												
	14	Install 24" C.M.	Lin. Ft.	886										886	
	15	Install 30" C.M.	Lin. Ft.	90										90	
	16	Install 48" C.M.	Lin. Ft.	140										140	
	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.	740										740	
	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.	100										100	
	3	Furnish 18" C.M.	Lin. Ft.												
	4	Furnish 24" C.M.	Lin. Ft.	886										886	
	5	Furnish 30" C.M.	Lin. Ft.	90										90	
	6	Furnish 48" C.M.	Lin. Ft.	140										140	
	7	Furnish 12" C.M. Band	Each												
	8	Furnish 15" C.M. Band	Each												
	9														
	10														
PS 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														
STABILIZE SUBGRADE	1	Loading Binder Soil	Cu. Yds.	779										779	
	2	Hauling Binder Soil	C.Y. Mi.	779										779	
	3	Stabilization Meth. No.1	Sq. Yds.	36835										36835	
	4	30" Dia. Sewer Pipe	Lin. Ft.												
	5	30" Dia. Sewer Pipe	Lin. Ft.												
	6	Manhole Complete	Each												
	7	Catch Basin Complete	Each												
	8														
	9														
	10														
GRAVEL	1	Hauling Gravel	C.Y. Mi.	36634										36634	
	2	Calcium Chloride App.	Ton	26.23										26.23	
	3	Loading Binder Soil	Cu. Yds.	754										754	
	4	Hauling Binder Soil	Cu. Yd. Mi.	779										779	
	5	Stabilization Meth. No.2	Cu. Yds.	3572										3572	
	6	Shape & Maintain Subgrade	F.&G. Hrs.	20										20	
	7														
	8														
STRUCTURES	1	Concrete	Cu. Yds.												
	2	Reinforcing Steel	Lbs.												
	3	Excavation	Cu. Yds.												
	4	Piling	Lin. Ft.												
	5														

DETAILS

