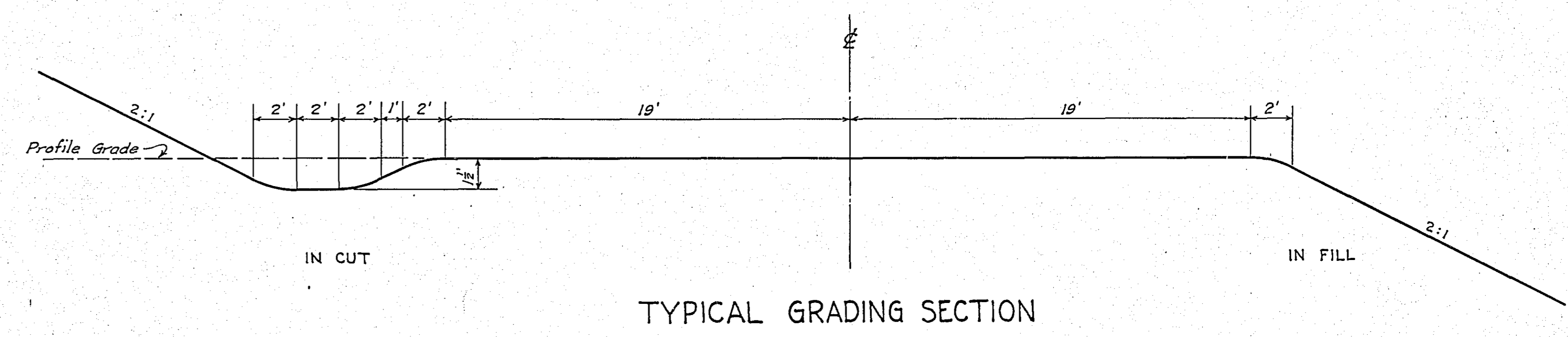


STATEMENT OF ESTIMATED QUANTITIES

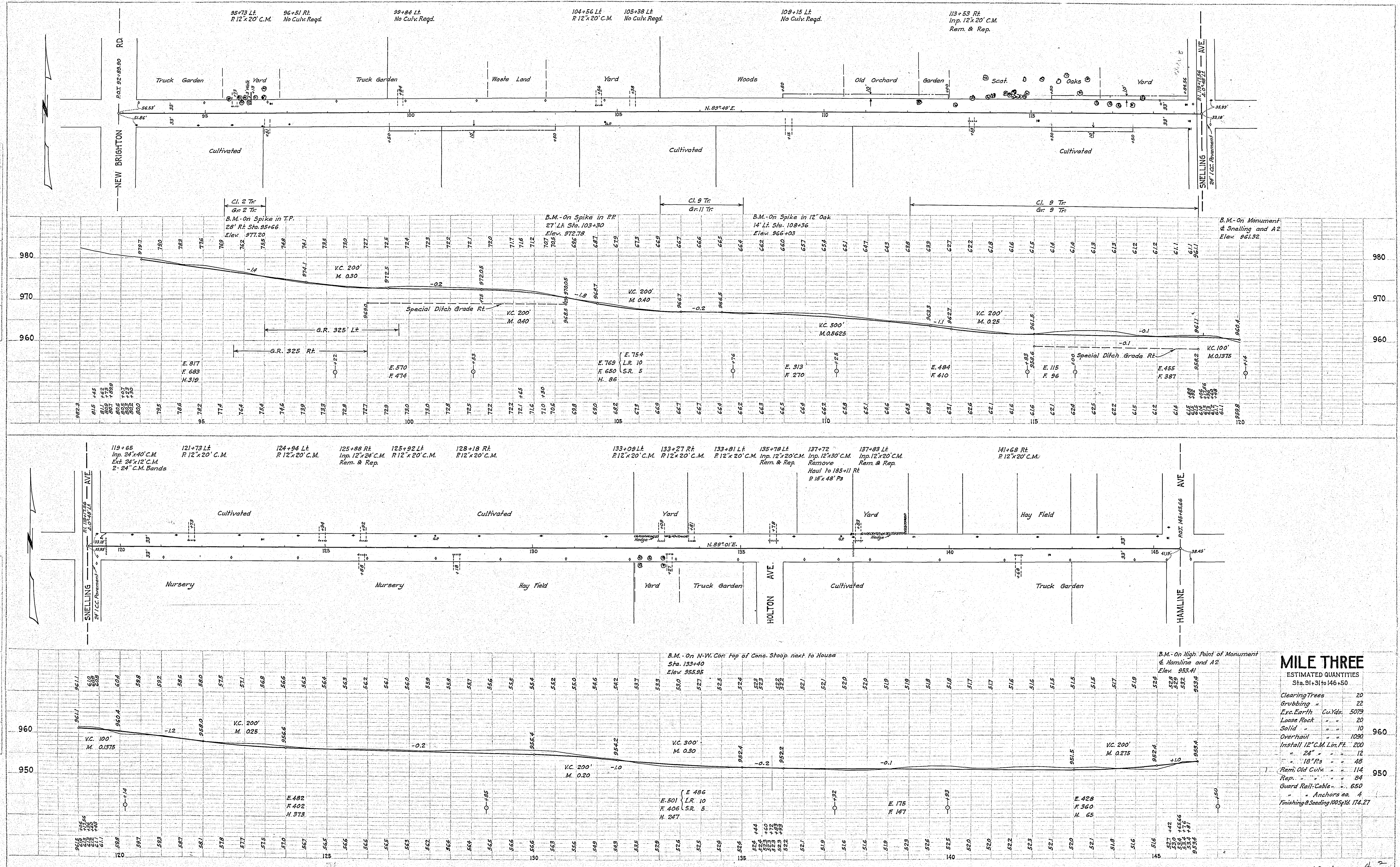
CLASS	ITEM	UNIT	MILE 1	MILE 2	MILE 3	MILE 4	MILE	MILE	MILE	MILE	MILE	TOTAL ESTIMATED QUANTITIES
			From 20+44 To 38+98	From 38+98 To 91+31	From 91+31 To 146+50	From 146+50 To 190+00	From To	From To	From To	From To	From To	
GRADING	1 Clearing Trees	Trees	16	41	20	10						87
	2 Grubbing Trees	Trees	16	50	22	10						98
	3 Clearing Acres	Acres										
	4 Grubbing Acres	Acres										
	5 Excavation Earth	Cu. Yds.	3483	9032	5079	3201						20796
	6 Excavation Loose Rock	Cu. Yds.	10	15	20	20						65
	7 Excavation Solid Rock	Cu. Yds.	5	5	10	10						30
	8 Excavation Overhaul	Cu. Yds.	2042	1967	1090	4457						9556
	9 Excavation Special	Cu. Yds.										
	10 Excavation Hand Ditch	Cu. Yds.										
	11 Install 12" C.M.	Lin. Ft.	40	60	200	140						440
	12 Install 15" C.M.	Lin. Ft.										
	13 Install 18" C.M.	Lin. Ft.	18	16		8						42
	14 Install 24" C.M.	Lin. Ft.	54	20	12							86
	15 Install	Lin. Ft.										
	16 Install	Lin. Ft.										
	17 Install 18" P3	Lin. Ft.			48	108						156
	18 Install 24" P3	Lin. Ft.										
	19 Install 30" P3	Lin. Ft.										
	20 Install 36" P3	Lin. Ft.										
	21 Install	Lin. Ft.										
	22 Install	Lin. Ft.										
	23 Remove Old Culvert	Lin. Ft.	402	184	114	487						1187
	24 Replace Old Culvert	Lin. Ft.	312	176	84	301						873
	25 Finishing and Seeding	100 Sq.Yds.	66.34	187.04	174.27	160.11						587.86
	26 Rubble Gutter	Cu. Yds.										
	27 Headwall Concrete	Cu. Yds.										
	28 Headwall Steel	Lbs.										
	29 Remove Old Guard Rail	Lin. Ft.	899	2401								3300
	30											
	31											
	32											
C.M. CULVERTS	1 Furnish 12" C.M.	Lin. Ft.	40	60	200	140						440
	2 Furnish 15" C.M.	Lin. Ft.										
	3 Furnish 18" C.M.	Lin. Ft.	18	16		8						42
	4 Furnish 24" C.M.	Lin. Ft.	54	20	12							86
	5 Furnish	Lin. Ft.										
	6 Furnish	Lin. Ft.										
	7 Furnish 12" C.M. Bond	Each		4								4
	8 Furnish 18" C.M. Bond	Each	2	2		2						6
	9 Furnish 24" C.M. Bond	Each	6	2	2							10
	10											
P3 CULVERTS	1 Furnish 18" P3	Lin. Ft.			48	108						156
	2 Furnish 24" P3	Lin. Ft.										
	3 Furnish 30" P3	Lin. Ft.										
	4 Furnish 36" P3	Lin. Ft.										
	5											
	6											
GUARD RAIL P3	1 Guard Rail - Cable	Lin. Ft.	1071	1839	650							3560
	2 Guard Rail Anchors	Each	10	12	4							26
	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



PLAN
 DATE: _____ BY: _____
 CHECKED: _____
 NOTE: BOOK NO. _____
 SHEET NO. _____

PROFILE
 DATE: _____ BY: _____
 CHECKED: _____
 NOTE: BOOK NO. _____
 SHEET NO. _____

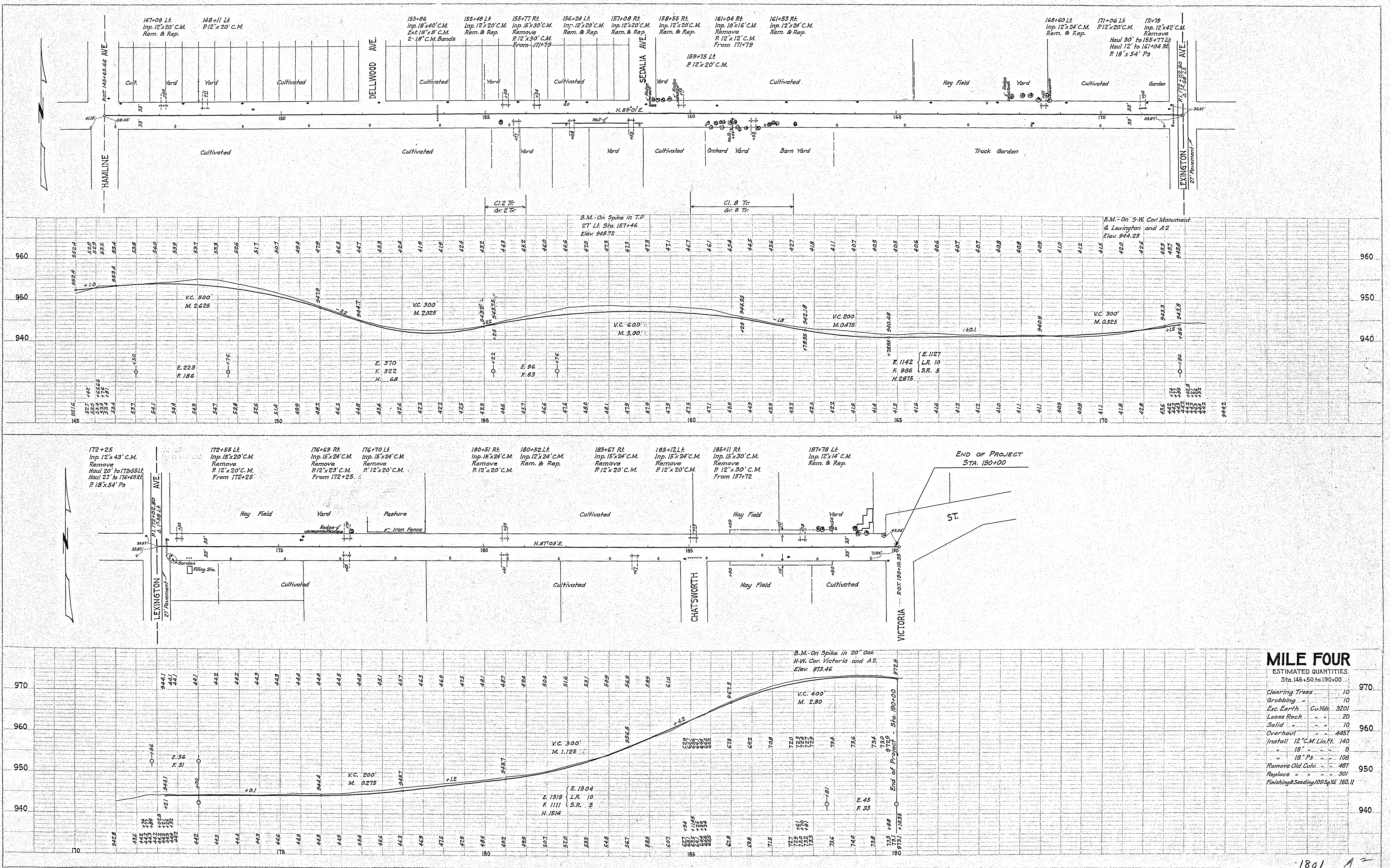


MILE THREE
 ESTIMATED QUANTITIES
 Sta. 91+31 to 146+50

Clearing Trees	20
Grubbing "	22
Exc. Earth Cu. Yds.	5079
Loose Rock "	10
Solid "	20
Overhaul "	1090
Install 12" C.M. Lin. Fr.	200
" 24" "	12
" 18" Ps "	48
Rem. Old Culv. "	114
Rep. " "	84
Guard Rail-Cable "	650
" " Anchors ea. 4	
Finishing & Seeding 100 Sq. Ft.	174.27

PLAN	REVISION	DATE
1	AS SHOWN	
2	NOTED	
3	NOTED	
4	NOTED	
5	NOTED	
6	NOTED	
7	NOTED	
8	NOTED	
9	NOTED	
10	NOTED	

PROFILE	REVISION	DATE
1	AS SHOWN	
2	NOTED	
3	NOTED	
4	NOTED	
5	NOTED	
6	NOTED	
7	NOTED	
8	NOTED	
9	NOTED	
10	NOTED	



MILE FOUR

ESTIMATED QUANTITIES
Sta. 146+50 to 190+00

Clearing Trees	10
Grubbing "	10
Exc. Earth - Cu.Yds	3201
Loose Rock "	20
Solid "	10
Overhaul "	4457
Install 12" C.M. Lin.Ft.	140
" 18" "	8
" 18" Ps "	108
Remove Old Culv. "	487
Replace " "	301
Finishing & Seeding 100 Sq.Yd.	160.11

1801 A

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	-----	A
RIGHT-OF-WAY LINE	-----	RADIUS	-----	R
TRAVELLED WAY	-----	ELEVATION	-----	E
RAILROADS	-----	VERTICAL CURVE	-----	V.C.
RETAINING WALL	-----	BERM 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 FACE WALLS	-----	LEFT	-----	L
WITH WING WALLS	-----	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

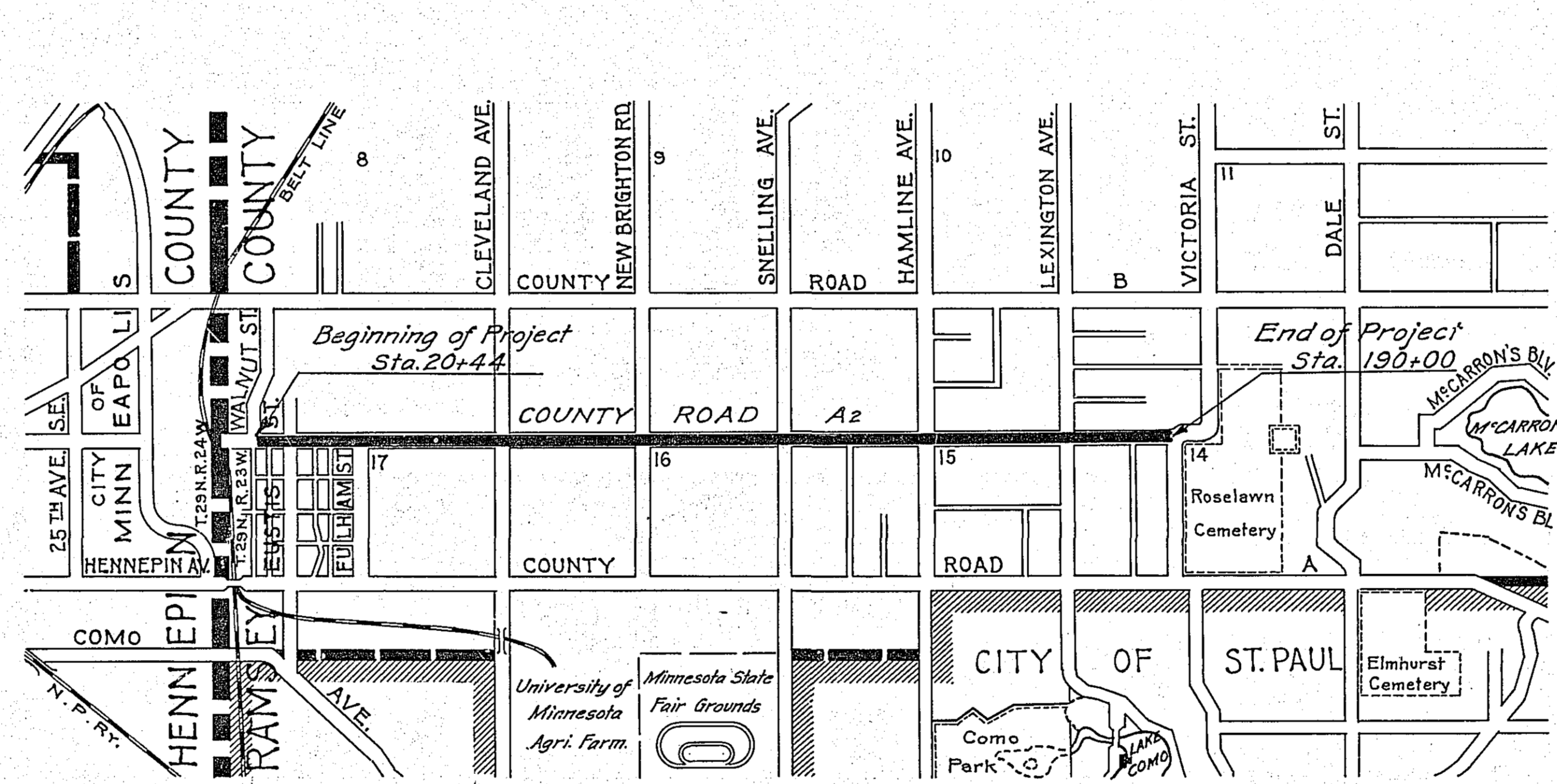
Plan and Profile of County Project No. 33-65A

From A point 676 ft. E. of W 1/4 Cor. Sec. 17, T29N23 To A point 1797.20 ft. E. of W 1/4 Cor. Sec. 14, T29N23
Give proper reference to Sections, Township and Range

GROSS LENGTH - 16956 FEET - 3.21 MILES
 LENGTH OF EXCEPTIONS - FEET - MILES
 NET LENGTH - 16956 FEET - 3.21 MILES
 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 = 5 Feet
 LAYOUT
 SCALE, 1 Inch = 2640 Feet

INDEX OF SHEETS

Sheet No. 1.	Title Sheet and Layout Map
" No. 2.	Typical Cross-Sections and Statement
" No. 3.	Plan and Profile, Sta. 20+44 to Sta. 38+98
" No. 4.	" " " " 38+98 " " 91+31
" No. 5.	" " " " 91+31 " " 146+50
" No. 6.	" " " " 146+50 " " 190+00



Not built

Date of Resolution for Preparation of Plans June 26, 1933

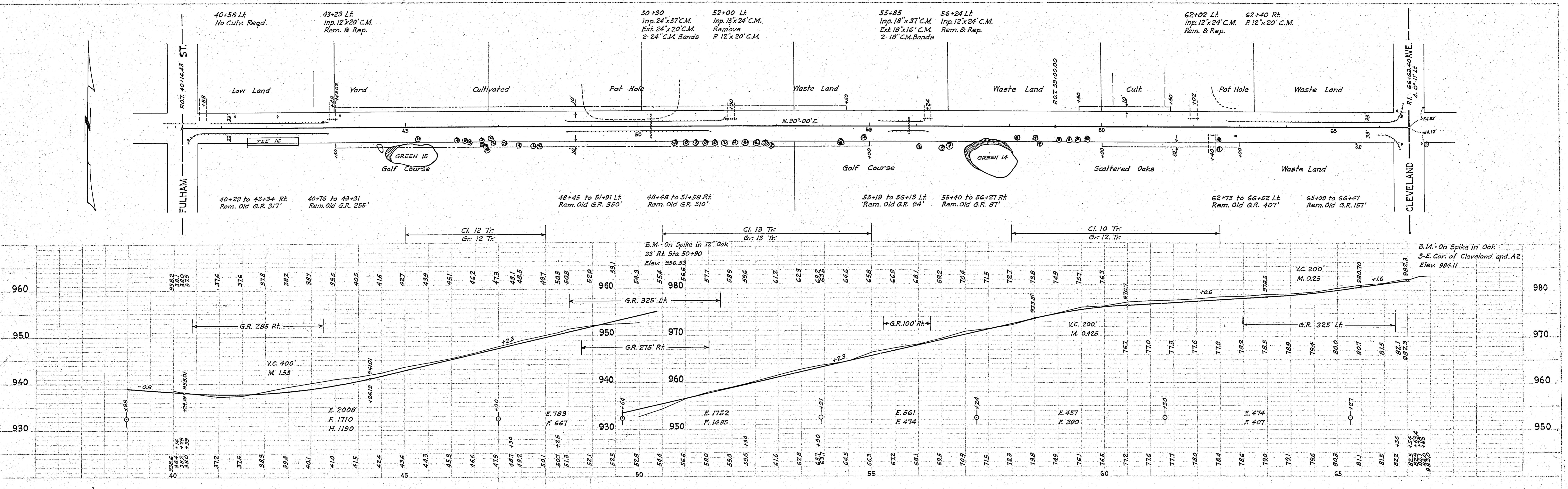
Planned by *M. W. Parley* ASSISTANT ENGINEER

Recommended for Approval *[Signature]* ASSISTANT ENGINEER

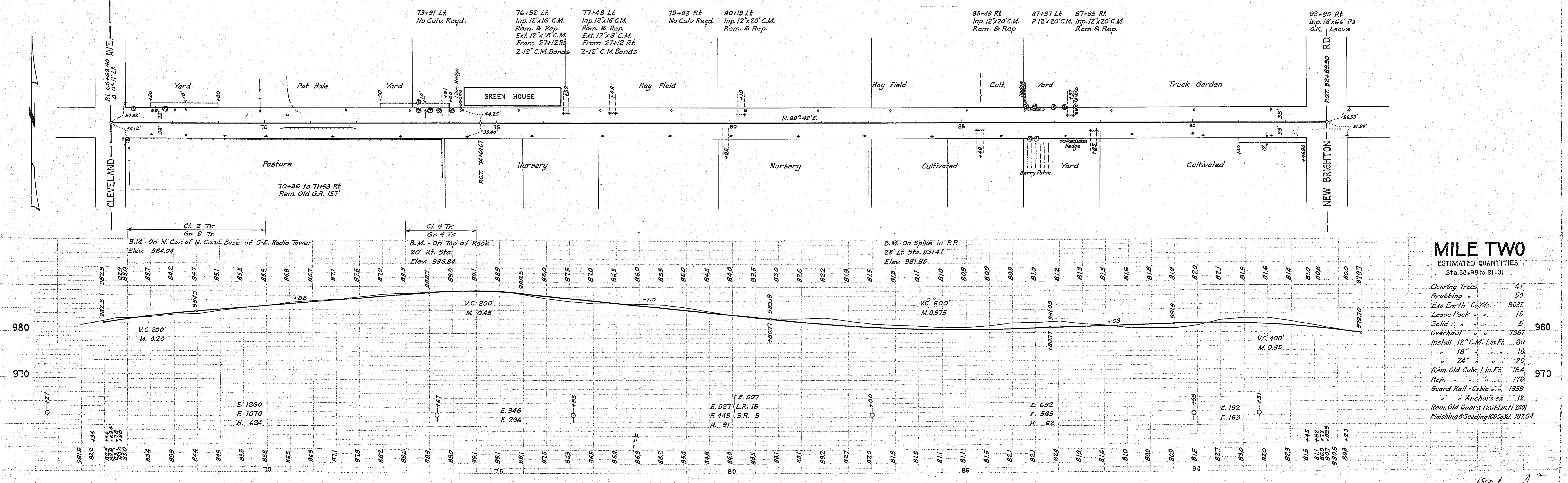
Plans Approved and Recommended for Consideration *[Signature]* COUNTY SURVEYOR

Approved by County Board 19 CHAIRMAN OF COUNTY BOARD

PLAN
 SURVEYED
 NOTE BOOK
 BUSINESS CHIFFER
 PL. OF NEW CHARLETTA



PROFILE
 SURVEYED
 NOTE BOOK
 BUSINESS CHIFFER
 PL. OF NEW CHARLETTA

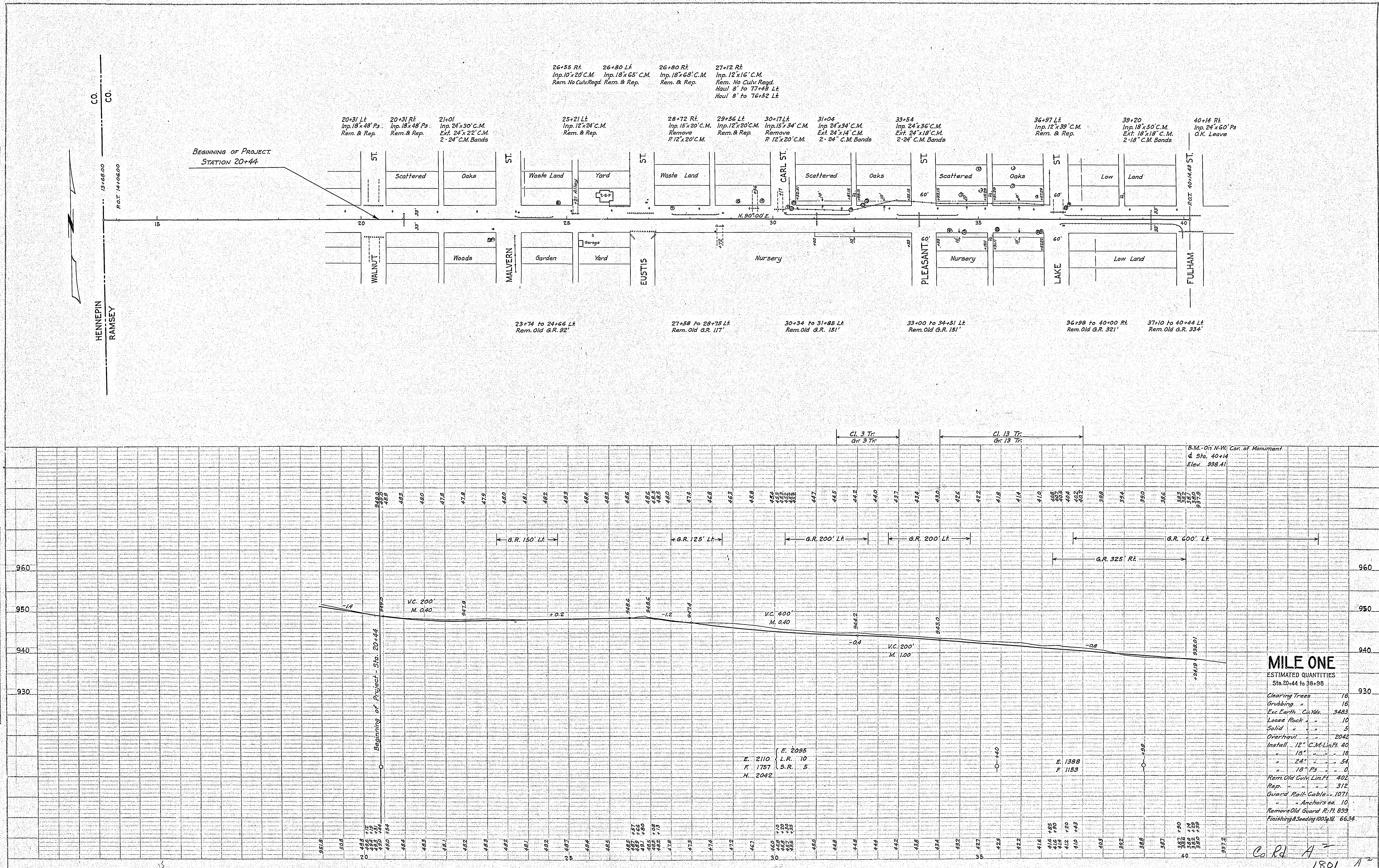


MILE TWO
 ESTIMATED QUANTITIES
 Sta. 30+98 to 91+31

Clearing Trees	41
Grubbing	50
Exc. Earth Cuts	9032
Loose Rock	15
Solid	5
Overhaul	1367
Install 12" C.M. Lin.F.F.	60
" 18" " " "	16
" 24" " " "	20
Rem. Old Cult. Lin.F.F.	184
Rep. " " " "	176
Guard Rail - Cable	1839
" Anchors ea.	12
Rem. Old Guard Rail Lin.F.F.	2401
Finishing & Seeding	1005 1/2 187.04

PLAN	SUBMITTED	DATE
	PLOTTED	
	NOTED	
	CHECKED	
	BY	
	DATE	
	BY	
	DATE	

PROFILE	SUBMITTED	DATE
	PLOTTED	
	NOTED	
	CHECKED	
	BY	
	DATE	
	BY	
	DATE	



MILE ONE

ESTIMATED QUANTITIES
Sta. 20+44 to 38+98

Clearing Trees	16
Grubbing "	16
Exc. Earth, Cu Yds.	3483
Loose Rock "	10
Solid "	5
Overhaul "	2042
Install 12" C.M. Lin. Ft.	40
" 18" "	18
" 24" "	54
" 18" Ps	0
Rem. Old Culk Lin. Ft.	402
Rep. " "	312
Guard Rail Cable "	1071
" Anchors ea.	10
Remove Old Guard R. Ft.	899
Finishing & Seeding 100% "	6634

Co Rd A
1801 A