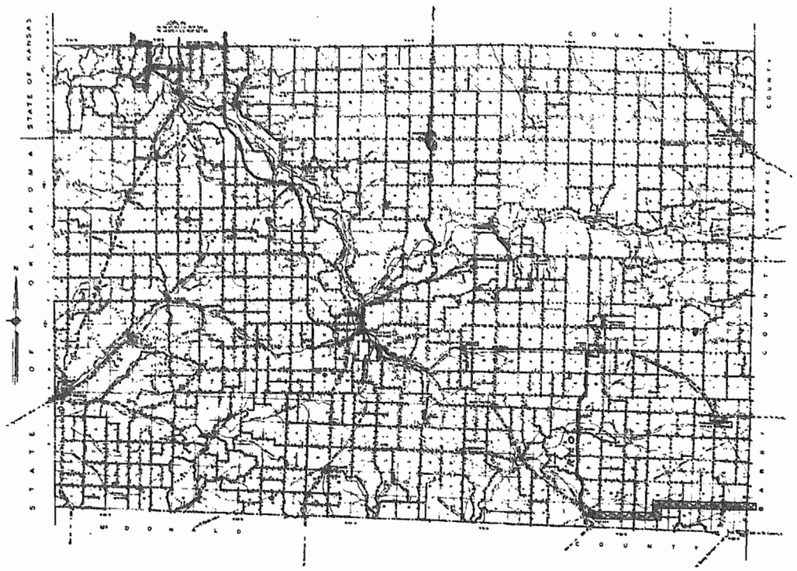
Don't have approved ADA ownership memo and map yet.

LOCATION MAP

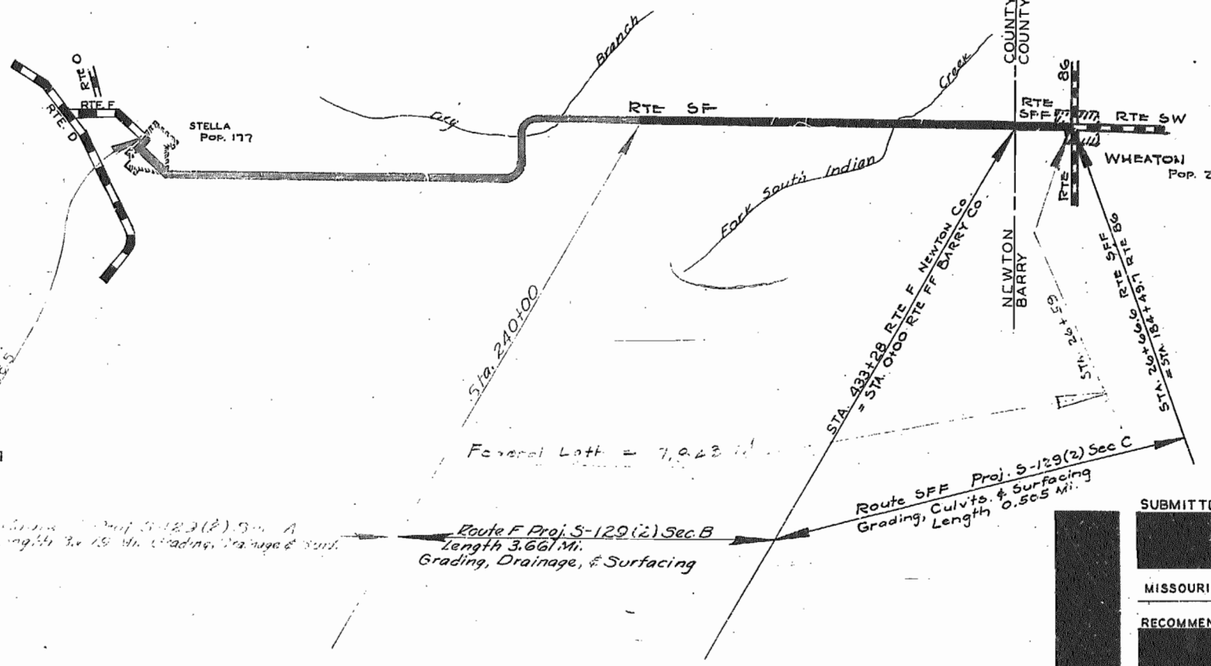


MISSOURI
STATE HIGHWAY COMMISSION
PLAN AND PROFILE
OF PROPOSED
STATE ROAD

FEDERAL AID PROJECT

NEWTON COUNTY
BARRY COUNTY

COUNTY	
NEWTON	BARRY
STATE ROUTE NO.	
SF	SFF
PROJECT NO.	
S-129(2)	



CONVENTIONAL SIGNS

STATE AND NATIONAL LINE	LEVEE
COUNTY LINE	CULVERTS
CITY, VILLAGE OR BOROUGH	DROP INLET
TOWNSHIP LINE	TROLLEY POLE
SECTION LINE	POWER POLE
GRANT LINE	TELEPHONE OR TELEGRAPH POLE
FENCE LINE	MARSH
GUARD RAIL	HEDGE
UNFENCED PROPERTY	
RIGHT OF WAY LINE	GROUND ELEVATION
TRAVELED WAY	
RAILROADS	GRADE ELEVATION
RETAINING WALL	SURFACE LINE
BASE OR SURVEY LINE	GR E LINE

SUBMITTED BY [redacted] DATE [redacted]

CHIEF ENGINEER
MISSOURI STATE HIGHWAY COMMISSION

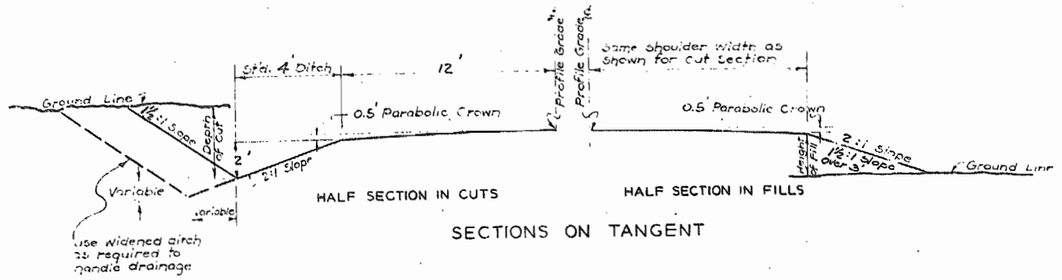
RECOMMENDED FOR APPROVAL [redacted]

DISTRICT ENGINEER
PUBLIC ROADS ADMINISTRATION
FEDERAL WORKS AGENCY

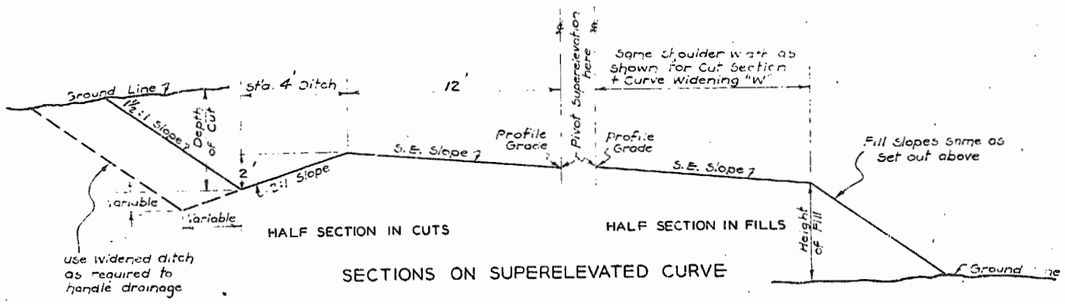
APPROVED BY [redacted]

DIVISION ENGINEER
PUBLIC ROADS ADMINISTRATION
FEDERAL WORKS AGENCY

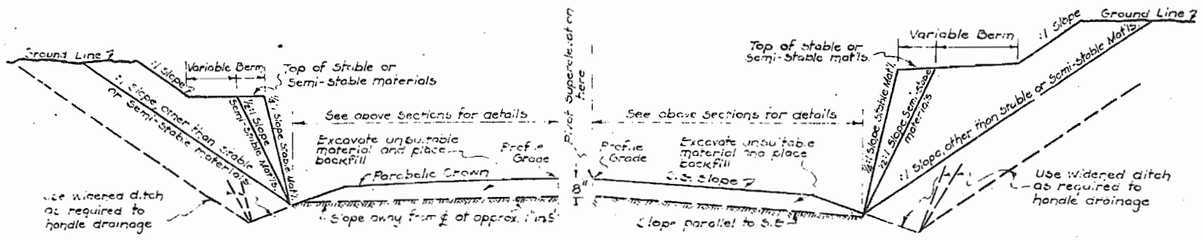
304



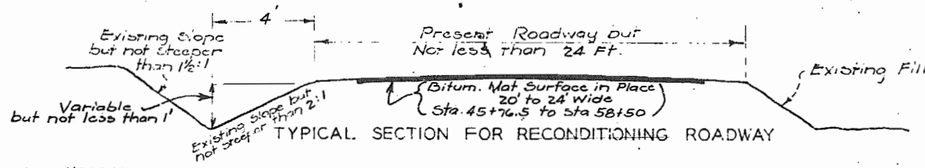
SECTIONS ON TANGENT



SECTIONS ON SUPERELEVATED CURVE



SECTIONS IN UNDERGRADED CUTS



TYPICAL SECTION FOR RECONDITIONING ROADWAY

GENERAL NOTES:—

Machine Grading and Reconditioning Rdwy. Shall be completed in accordance with these Typical Sections using the standard depth of ditch except as otherwise noted on Plan Sheets and as required to provide proper drainage. Covering of at least 1 foot will be required over all drainage structures located within Machine and Reconditioning Rdwy Sections

In transitioning from one slope to another, use a 25 foot length of transition.

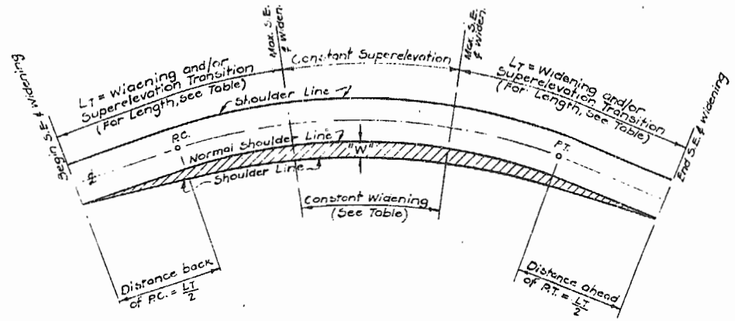
All information shown on these TYPICAL SECTIONS is for the purpose of indicating the required parabolic crown on tangent section, and general design and construction details. Actual construction of roadbed widths, slopes, depth and width of ditches, undergraded cuts and other features shall conform to the details shown on CROSS-SECTIONS and PLAN & PROFILE sheets or as directed by the Engineer.

Hand finishing of side slopes of cuts and fills will not be required. Machine finishing to a smooth plane will be considered satisfactory.

Unless otherwise shown on the plans, the roadway ditch at all cross road culverts shall be widened to five (5) feet at the inlet with a fifty (50) foot transition to the standard roadway ditch. In "Machine Grading" limits the cost of this excavation is to be included in the contract unit price for Machine Grading.

The cost of constructing Ditch Relief in "Machine Grading" limits is to be included in the contract unit price for "Machine Grading."

SCHEME OF WIDENING AND SUPERELEVATION TRANSITION



SUPERELEVATION AND WIDENING DATA

Degree of Curve Dc	Design Speeds: 30 or Less S	W	LT	40 M.P.H. S	W	LT	50 M.P.H. S	W	LT
0° to 1°00'	0	0	0	0	0	0	0	0	0
1°01' to 1°30'	.01	0	150	.02	0	150	.02	0	150
2°00'	.01	0	150	.02	0	150	.03	0	150
2°30'	.01	0	150	.03	0	150	.04	0	150
3°00'	.02	0	150	.03	0	150	.05	0	150
3°30'	.02	0	150	.04	0	150	.06	0	150
4°	.02	0	150	.04	0	150	.06	0	150
5°	.03	0	150	.05	0	150	.08	0	150
6°	.03	0	150	.06	0	150	.08	2.0	200
7°	.04	0	150	.07	0	150	.08	2.0	250
8°	.05	0	150	.08	2.0'	150	.08	2.0	300
9°	.05	2.0'	150	.08	2.0'	150	.08	3.0	300
10°	.06	2.0'	150	.08	2.0'	200	Max. Curve 9°00'		
11°	.06	2.0'	150	.08	3.0'	200			
12°	.07	2.0'	150	.08	3.0'	200			
13°	.07	2.0'	150	.08	3.0'	250			
14°	.08	2.0'	150	.08	3.0'	250			
15°	.08	3.0'	150	Max. Curve 14°00'					
15°00' to 22°59'	.08	3.0'	150						
23°00' to 23°59'	.08	4.0'	150						
24°00' & above	.08	4.0'	200						

— NOTES —

S- denotes Superelevation in feet per foot.

W- denotes Widening of surfacing and inside Shoulder in feet.

LT- denotes length of Superelevation and/or Widening transition in feet.

Crown is to be eliminated on all Superelevated Curves.

Values for degrees of curve not shown in above table shall be identical with those for the nearest tabulated curve. In case of tie, use values for next higher degree curve.

MISSOURI STATE HIGHWAY COMMISSION

TYPICAL SECTIONS FOR 24' FT. GRADED EARTH FOR SUPPLEMENTARY ROADS

(DESIGN SPEED 40 M.P.H.)

ROUTE: SF SFF COUNTY: NEWTON BARRY

PROJ. ~~OR SEC~~: S-129(2) Secs. A, B & C

IAC-6

LOCATION STELLA EASTERLY TO THE BARRY CO. LINE

TYPE GRADED EARTH, CULVERTS & CHAT SURFACE

MISSOURI STATE HIGHWAY COMMISSION

SUMMARY OF QUANTITIES

FINAL PLANS

FED. ROAD DIST. No.	STATE	PROJECT	FISCAL YEAR	SHEET No.	TOTAL SHEETS
5	MO.	S-129(2)		2-A	
DIV. No.	COUNTY			ROUTE	ST.
7	NEWTON			S-F	A

EXCAVATION

Station	Class A	Recond. Rdwy.	Mach. Gr. 1	Mach. Gr. 2
45+76.5				
58+50		12.7		
64+28.7			5.8	
76+00	2693			
81+50	586			
87+25	1725			
92+00	1285			
99+00			7.0	
101+00				2.0
175+00			74.0	
177+50				2.5
194+50			17.0	
208+00				13.5
222+00			14.0	
232+00				10.0
236+50			4.5	
240+00	250			3.5
Sub Total	6539	12.7	122.3	31.5
Appr.			22.7	
TOTAL	6539	12.7	145.0	31.5

CLEARING & GRUBBING

Sheet No.	Clearing Units	Grubbing Units
4	107	41
5	166	116
6	135	86
7	147	90
8	77	32
9	101	55
Total Units	733	420
ACRES	8.4	4.8

HEDGE REMOVAL

Station-Station		Side	100 Ft.
72+65		Rt.	.05
105+90	106+10	Lt.	.20
127+65		Rt.	.10
132+40	181+25	Lt.	.85
194+85	200+42	Rt.	3.30
203+50		℄	.10
234+03	239+90	Lt.	.15
TOTAL			4.75

SUBGRADE SCARIFYING

Station-Station		No. of Stas.
70+50	73+30	2.8
79+50	81+50	2.0
85+20	88+80	3.6
94+00	110+00	16.0
163+00	175+00	12.0
176+00	186+00	10.0
191+00	193+00	2.0
200+00	221+00	21.0
231+00	235+00	4.0
TOTAL		73.5

METAL ARCH CULVERTS

Station	Location	B-4	B-6	Cl. "3" Exc.	Remarks
58+49.8	C.L.	62'		32	42° Sk. LA.
97+.5	C.L.		44'	30	30° Sk. RA.
TOTAL		62'	44'	62	

ENTRANCES & SIDE ROAD CULVERT PIPE & APPROACHES

Station	Type	Side	12"	15"	18"	24"	30"	Actual Length	M.G. Cl. 1	Cl. "3" Exc.	Aggr. Surf. C.Y.	Remarks
46+64	P.E.	Rt.										Cr.
49+27	P.E.	Lt.			22'			11'	.3		2	
49+62	P.E.	Rt.									1	U.I.P.
51+50	P.E.	Rt.									1	"
51+72	S.R.	Lt.									1	"
53+33	P.E.	Lt.									1	"
55+24	S.R.	Lt.										"
55+42	P.E.	Rt.									1	"
57+58	P.E.	Lt.									1	"
58+96	P.E.	Rt.	20'					8'	.3		2	Serves Two Houses
59+32	P.E.	Lt.	24'					10'	.3		2	
61+60	P.E.	Lt.	20'					8'	.3		2	
61+39	P.E.	Rt.	30'					8'	.3		2	Serves Two Houses
62+44	P.E.	Lt.	20'					9'	.3		2	
63+36	P.E.	Rt.						6'	.3		2	Cr.
63+40	P.E.	Lt.	20'					8'	.3		2	
65+65	F.E.	Rt.	20'					26'	.3			
65+65	P.E.	Lt.			22'			28'	.3		2	
72+68	S.R.	Lt.						194'	1.9		14	Cr.
81+50	F.E.	Rt.						27'	.3			Cr.
81+65	F.E.	Lt.						28'	.3			Cr.
85+80	S.R.	Rt.	30'					80'	.8		6	
104+98	F.E.	Lt.		20'				25'	.3			
104+98	P.E.	Rt.			22'			25'	.3		2	
111+48	P.E.	Lt.	20'					28'	.3		2	
125+17	F.E.	Lt.						32'	.3			on Sk. Cr.
125+43.5	S.R.	Rt.&Lt.						200'	2.0		18	Cr.
125+61	F.E.	Lt.						20'	.3			on Sk. Cr.
126+54	P.E.	Rt.	20'					28'	.3		2	
139+04	F.E.	Rt.				24'		28'	.3			
150+95	F.E.	Rt.						26'	.3			Cr.
151+00	F.E.	Lt.						26'	.3			Cr.
151+88	S.R.	Lt.						47'	.5		6	Cr.
151+91	S.R.	Rt.			30'			54'	.5		6	
157+63	P.E.	Lt.			22'			28'	.3		2	
160+64	P.E.	Rt.			22'			28'	.3		2	
167+90	F.E.	Lt.						26'	.3			Cr.
168+00	F.E.	Rt.						28'	.3			Cr.
178+00	F.E.	Lt.						22'	.3			Cr.
178+26	P.E.	Rt.	20'					28'	.3		2	
178+28	S.R.	Lt.						97'	1.0		6	Cr.
180+45	F.E.	Lt.						20'	.3			Cr.
184+80	F.E.	Rt.						28'	.3			Cr.
191+31	F.E.	Lt.	20'					27'	.3			
193+70	P.E.	Lt.		20'				28'	.3		2	
193+75	F.E.	Rt.		20'				28'	.3			
203+74	S.R.	Rt.		34'				200'	2.0	11	16	120' Rt.
206+40	F.E.	Rt.						25'	.3			Cr.
206+58	F.E.	Lt.	20'					28'	.3			
215+43	P.E.	Rt.				24'		28'	.3		2	
222+76	F.E.	Lt.					26'	28'	.3			
225+35	P.E.	Lt.					26	28'	.3		2	
229+00	P.E.	Lt.						200'	2.0		18	Cr.
231+45	P.E.	Lt.						28'	.3		2	Cr.
231+79	F.E.	Rt.						28'	.3			Cr.
239+37	F.E.	Rt.				24'		28'	.3			
TOTAL			284'	94'	140	72	52'	1999	22.7	11	*133	

* Incl. in Chat Surface Books.

CROSS ROAD CULVERT PIPE

Station	Location	18"	24"	30"	36"	Cl. "3" Exc.	Remarks
48+08.5	C.L.	36'				16.5	
63+83	C.L.	38				15	30° Sk. L.A.
75+02	C.L.				54'	46	Incls. Rem. Old Culv.
79+20	C.L.	40'				15	
82+69	C.L.		46'			22	Incls. Rem. Old Culv.
90+60	C.L.			48'		37	
101+60	C.L.			42		25	30° Sk. L.A.
181+60	C.L.	34'				9	
217+60	C.L.		40			19	30° Sk. L.A.
TOTAL		148'	86'	90'	54'	203.5	

LENGTH OF PROJECT

End of Project	Station	240+00.0	
Beginning of Project	Station	45+76.5	
Apparent Length		19423.5	Feet
Equations and Exceptions:	(None)		
Total Corrections			Feet
Net Length of Project		19423.5	Feet
State Length		3.679	Miles
Federal Length		3.679	Miles

ROCK FILL & GROUTED ROCK FILL SURF.

Station	Location	Furnish Rock Cu. Yd.	Placing Rock Cu. Yd.	Grout. Rock Fill Surf. Sq. Yd.
75+02	Culv. End Rt.	13.0	13.0	25.0
90+60	Culv. End Rt.	3.0	3.0	8.0
92+35	Culv. End Rt.	33.0	33.0	39.0
176+82	Culv. End Lt.	4.0	4.0	9.0
237+87.5	Culv. End Rt.	26.0	26.0	39.0
TOTAL		85	85	120

CHAT SURFACE

Book No.	Cu. Yds.
1	618
2	625
3	574
TOTAL	1817

REMOVAL OF EXISTING STRUCTURES

Station	Location	Description	Structs.
58+48.1	C.L.	15" x 38' R.C.P.	
65+78	21' Lt.	5' Conc. Steps	
92+35	C.L.	Culv. Cleanout	
120+17.1	C.L.	Culv. Cleanout	
152+56.8	C.L.	Culv. Cleanout	
157+60	19.5' Lt.	24" x 16.4' RCP	
178+26	19.5 Rt.	18" x 16.4' RCP	
178+28	22.5' Lt.	12" x 24' CMP	
196+34.8	C.L.	Culv. Cleanout	
203+27	C.L.	Conc. Base	
204+50	50 Rt.	12" x 18' CMP	
204+80	C.L.	Steps & Well Top	
TOTAL			12
		Lump Sum	1

REMOVAL OF EXISTING STRUCTURES NOT INCLUDED WITH LUMP SUM

Station	Location	Description	Cl. "3" Exc.
59+52	16' Lt.	12" x 18' Conc. Pipe	5.5
61+46	13' Rt.	12" x 7.5' Conc. Pipe	2.0
65+74	17' Lt.	24" x 16' Conc. Pipe	9.0
104+96	16' Rt.	18" x 16' Conc. Pipe	6.0
104+96	17.5' Lt.	12" x 16' Conc. Pipe	5.5
126+17	17' Rt.	12" x 12' Conc. Pipe	3.5
139+04	17' Rt.	24" x 16' Conc. Pipe	9.0
160+65	17' Rt.	24" x 16' Conc. Pipe	8.5
191+30	17' Lt.	12" x 12' CMP	2.5
193+70	17' Rt.	12" x 10' CMP	3.0
193+70	17' Lt.	24" x 16' Conc. Pipe	10.0
214+98	19' Rt.	24" x 16' Conc. Pipe	9.0
224+10.2	C.L.	Culv. Cleanout	19.5
225+30	22' Lt.	24" x 16' Conc. Pipe	8.5
TOTAL			101.5

GENERAL SUMMARY

ITEM NO.	DESCRIPTION	UNIT	TOTAL UNITS	NO. UNITS
1A-A	Clearing	Acre	8.4	
1A-B	Grubbing	Acre	4.8	
1A-C	Hedge Removal	100 Ft.	4.75	
1A-D	Class A Excavation	Cu. Yd.	6539	
1-I	Class 3 Excavation for Structures	Cu. Yd.	378.0	
1A-O	Machine Grading (Class 1)	Station	145.0	
1A-OO	Machine Grading (Class 2)	Station	31.5	
1A-P	Subgrade Scarifying	Station	73.5	
1A-Q	Reconditioning Roadway	Station	12.7	
1-CA	Furnishing Rock Fill	Cu. Yd.	85	
1-CB	Placing Rock Fill	Cu. Yd.	85	
1-CD	Grouted Rock Fill Surface	Sq. Yd.	120	
13-A	Chat Surface	Cu. Yd.	1817	
18-B	12" Corr. Metal Culv. Pipe	Lin. Ft.	284	
18-B	15" " " " "	Lin. Ft.	94	
18-B	18" " " " "	Lin. Ft.	288	
18-B	24" " " " "	Lin. Ft.	158	
18-B	30" " " " "	Lin. Ft.	142	
18-B	36" " " " "	Lin. Ft.	54	
18A-A	Metal Arch Culverts (Type B-4)	Lin. Ft.	62	
18A-A	Metal Arch Culverts (Type B-6)	Lin. Ft.	44	
33-A	Removal of (12) Existing Structures	Lump Sum	1	

CONTINGENT ITEM

12" Corr. Metal Culv. Pipe Left Over and Bought from Contractor	Lin. Ft.	52

Prepared By C.R. Baugh Date 6-12 1953 Checked in Div. Office By [illegible] Date [illegible] 19[illegible] Checked in Central Office By ________ Date ________ 19__ Revised By ________ Date ________ 19__

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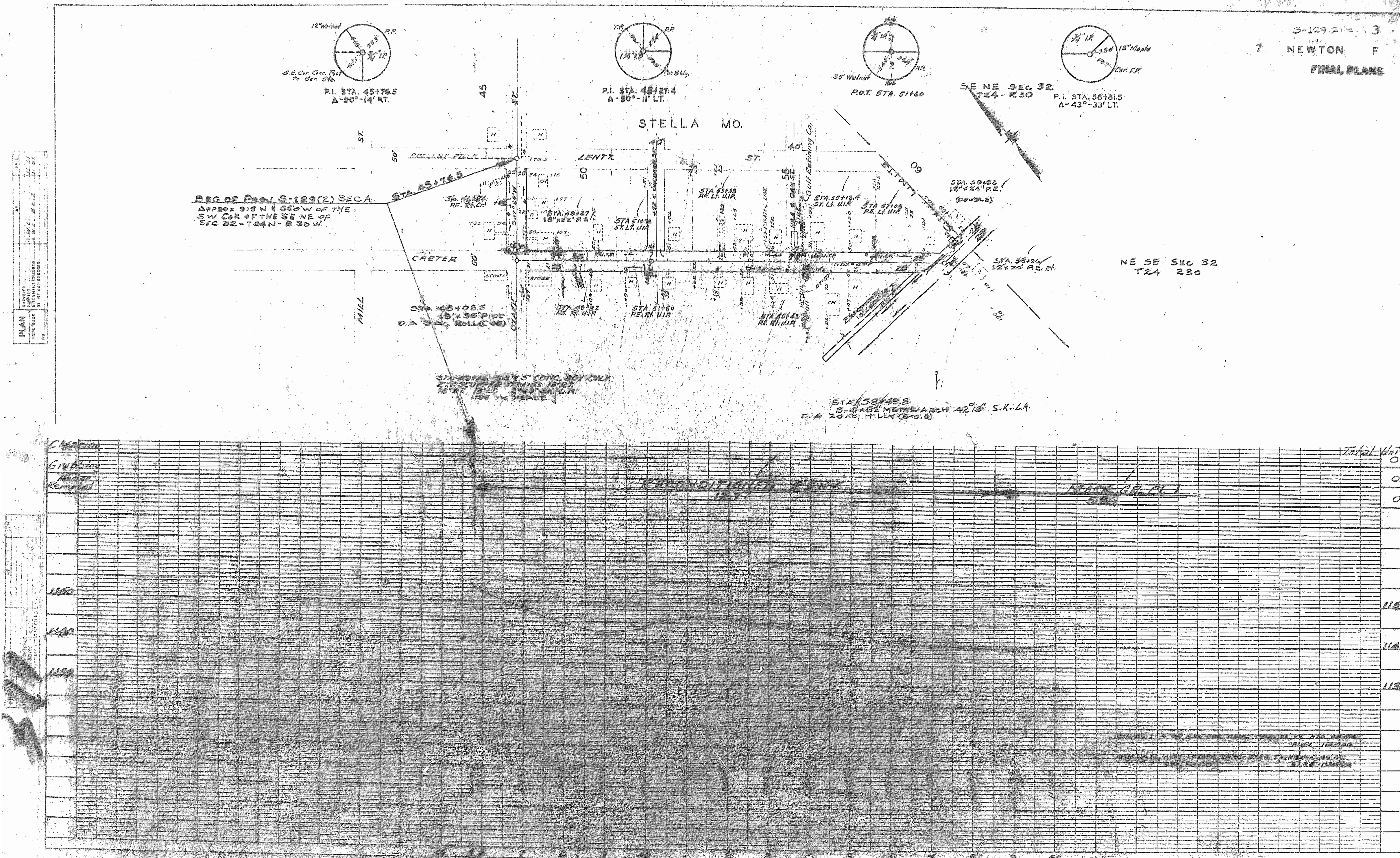
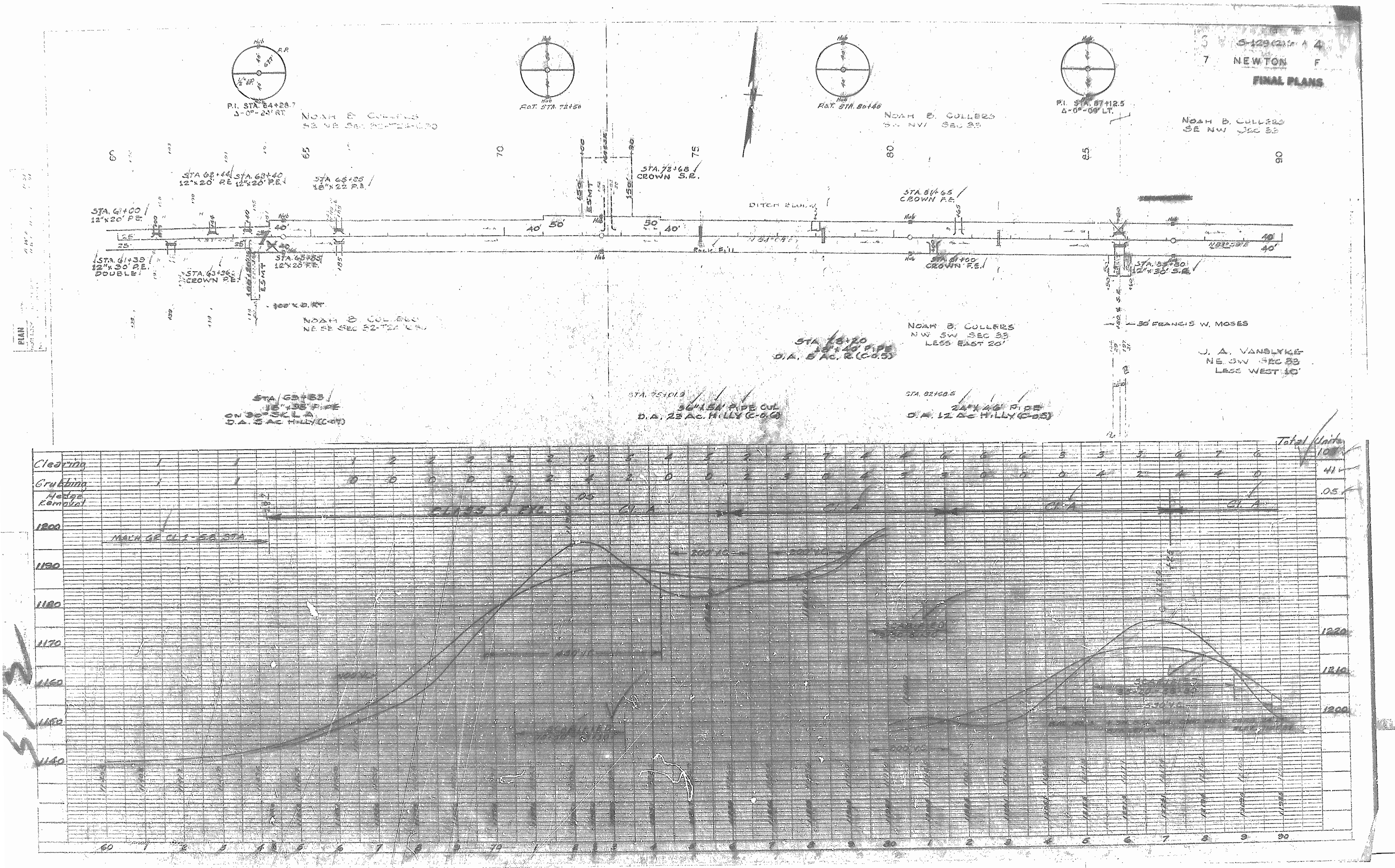


S-129
NEWTON
FINAL PLANS
P.I. STA. 45+76.5
Δ-90°-14' RT.
P.I. STA. 48+27.4
Δ-90°-11' LT.
P.O.T. STA. 51+60
SE NE Sec 32
T24 - R30
P.I. STA. 56+81.5
Δ-43°-33' LT.
12" Walnut
S.E. Cor. Conc. Post to Ser. Sta.
Con. Bldg.
30" Walnut
18" Maple
STELLA MO.
LENTZ
ST.
CARTER
MILL
OZARK
Gulf Refining Co.
BEG OF PROJ S-129(2) SEC A
APPROX 316 N & 650' W OF THE SW COR OF THE SE NE OF SEC 32 - T24N - R30W
STA 45+76.5
STA. 48+06.5
18" x 36' PIPE
D.A. 3 AC. ROLL (C-05)
STA. 58+32
(DOUBLE)
STA. 58+96
NE SE Sec 32
T24 230
STA. 58+49.8
METAL ARCH
HILLY
RECONDITIONED R.R.W.Y.
MACH. GR. CL. 1
Clearing
Grubbing
Hedge Removal
Total Units
0
0
0
1150
1140
1130



NEWTON
FINAL PLANS
P.I. STA. 64+28.7
P.O.T. STA. 72+50
P.O.T. STA. 80+46
P.I. STA. 87+12.5
NOAH B. COLLERS
NOAH B. COLLERS
SE NW SEC 33
STA. 72+68
CROWN S.E.
STA. 62+44
12"x20' P.E.
STA. 63+40
12"x20' P.E.
STA. 61+00
12"x20' P.E.
STA. 61+39
12"x30' P.E.
DOUBLE
STA. 63+36
CROWN P.E.
STA. 81+65
CROWN P.E.
STA. 81+00
CROWN P.E.
DITCH
ROCK FILL
ESMT
NOAH B. COLLERS
NE SE SEC 32
NOAH B. COLLERS
NW SW SEC 33
LESS EAST 20'
30' FRANCIS W. MOSES
J. A. VANSLYKE
NE SW SEC 33
LESS WEST 10'
STA. 75+01.9
STA. 82+68.6
D.A. 23 AC. HILLY
D.A. 12 AC. HILLY
PLAN
Clearing
Grubbing
Hedge Removal
Total Units
CL. A

STATE PROJECT NO. S-129(2)&A 5
7 NEWTON F

FINAL PLANS

NOAH B. CULLERS
SE NW SEC 33

P.O.T. STA. 100+00

W. I. PECK
SW NE SEC 33

P.O.T. STA. 107+00

P.I. STA. 113+80
Δ-0°-07' RT.

W. I. PECK
SE NE SEC 33

90 95 100 105 110 115 120

STA. 104+98
15"x20" P.E.
M.G.1-0.3

STA. 111+48
12"x25" P.E.

DITCH BLOCK

ROCK CUT

40' Rock Fill

Rock Fill

DITCH BLOCK

Pond

DO NOT DISTURB BANK OF POND

STA. 97+15
44"x 5'-6" METAL ARCH
ON 30° SKEW R.A.
D.A. 40 Ac. Roll (C-05)

STA. 104+98
18"x22" P.E.

Pond

DO NOT DISTURB BANK OF POND

J. A. VANSLYKE
NE SW SEC 33
LESS WEST 10'

J. A. VANSLYKE
NW SE SEC 33

J. H. VANSLYKE
NE SE SEC 33

STA. 90+60.4
30"x 48' PIPE
D.A. 20 Ac Roll (C-0.5)

STA. 92+05, 6'x3'x24' CONC. CULV.
12° RT. 12° LT. USE IN PLACE
D.A. 63 Ac. Roll (C-0.5)
24' Row Y

STA. 101+60
30"x42' PIPE
D.A. 20 Ac. R. (C-0.5)
30° SK. L.A.

PLAN
NO PART OF THIS PLAN TO BE ERASED OR ALTERED EXCEPT BY OR UNDER THE DIRECTION OF THE ENGINEER IN CHARGE

PROFILE
NO PART OF THIS PROFILE TO BE ERASED OR ALTERED EXCEPT BY OR UNDER THE DIRECTION OF THE ENGINEER IN CHARGE

Clearing 8 5 2 8 7 5 5 3 3 3 3 3 5 5 4 4 5 7 8 7 5 5 4 6 7 7 6 7 4 2
Grubbing 0 4 6 8 1 5 7 3 5 3 3 1 3 5 3 1 5 7 8 4 1 3 5 2 5 0 3 3 7 2
Hedge Removal .10 .20

Total Units 66 116 120

Ch. A MACH. GR. Ch. 1-70 STA. MACH. GR. Ch. 2-2 STA. SCARIFIED GRADE NOT MACH. GR. Ch. 1-150 STA.

1260 1240 1220 1210 1200 1190

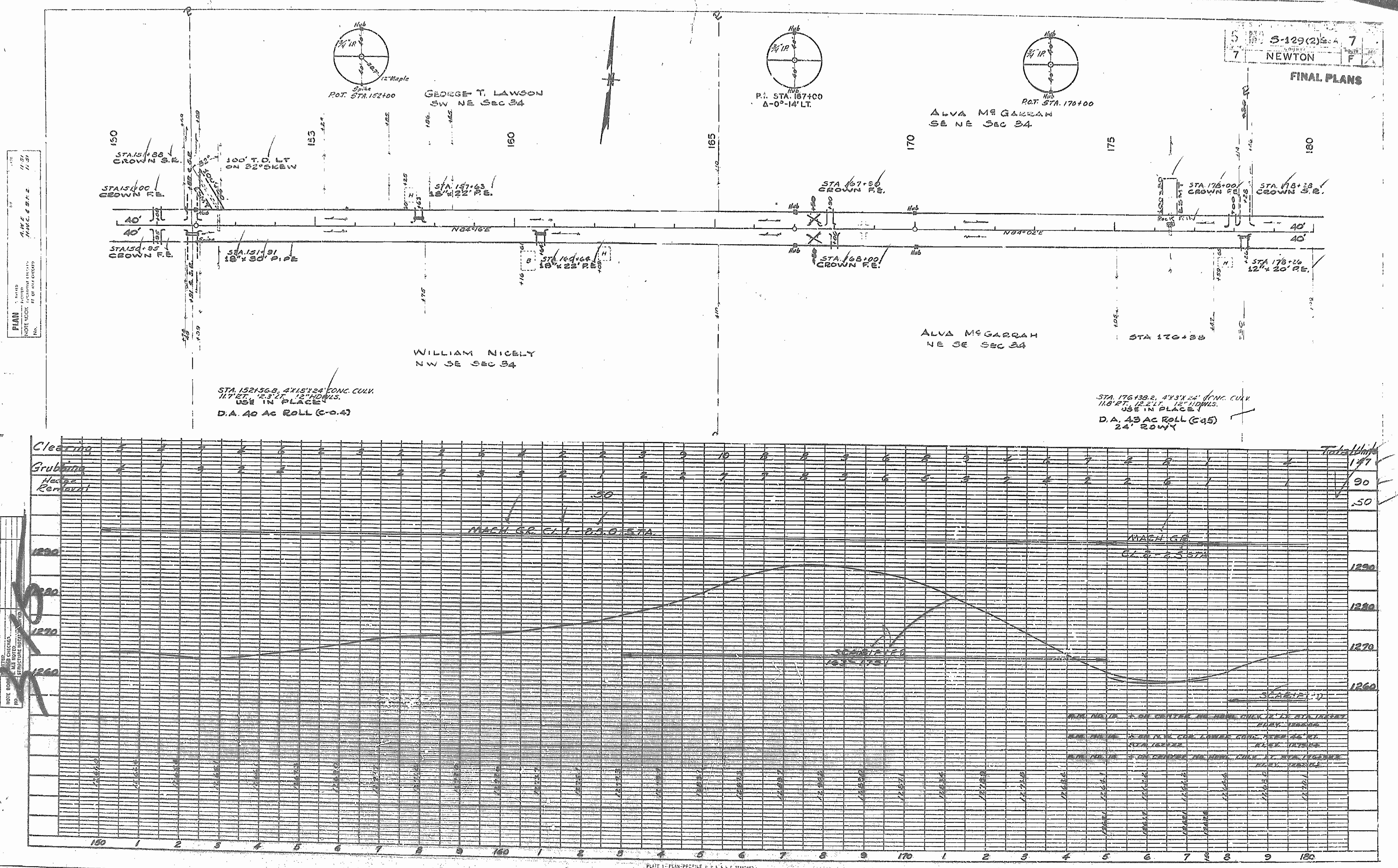
90 1 2 3 4 5 6 7 8 9 100 1 2 3 4 5 6 7 8 9 110 1 2 3 4 5 6 7 8 9 120

PLATE 1 - PLAN-PROFILE C.P.R.& L.P. STANDARD
HEFFELL & GOLES CO. NEW YORK

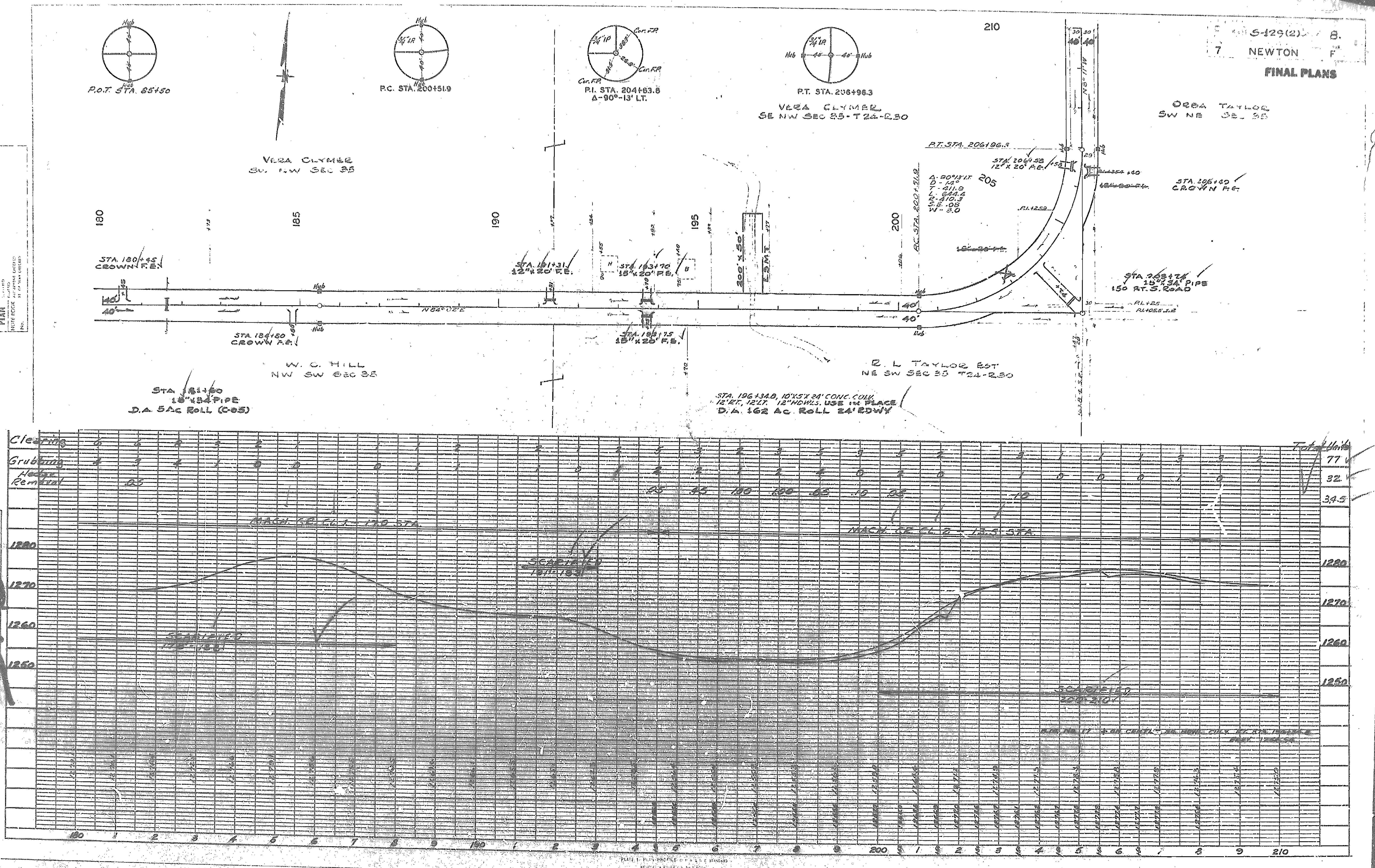
5	S-129(2)		6
7	NEWTON		F

FINAL PLANS

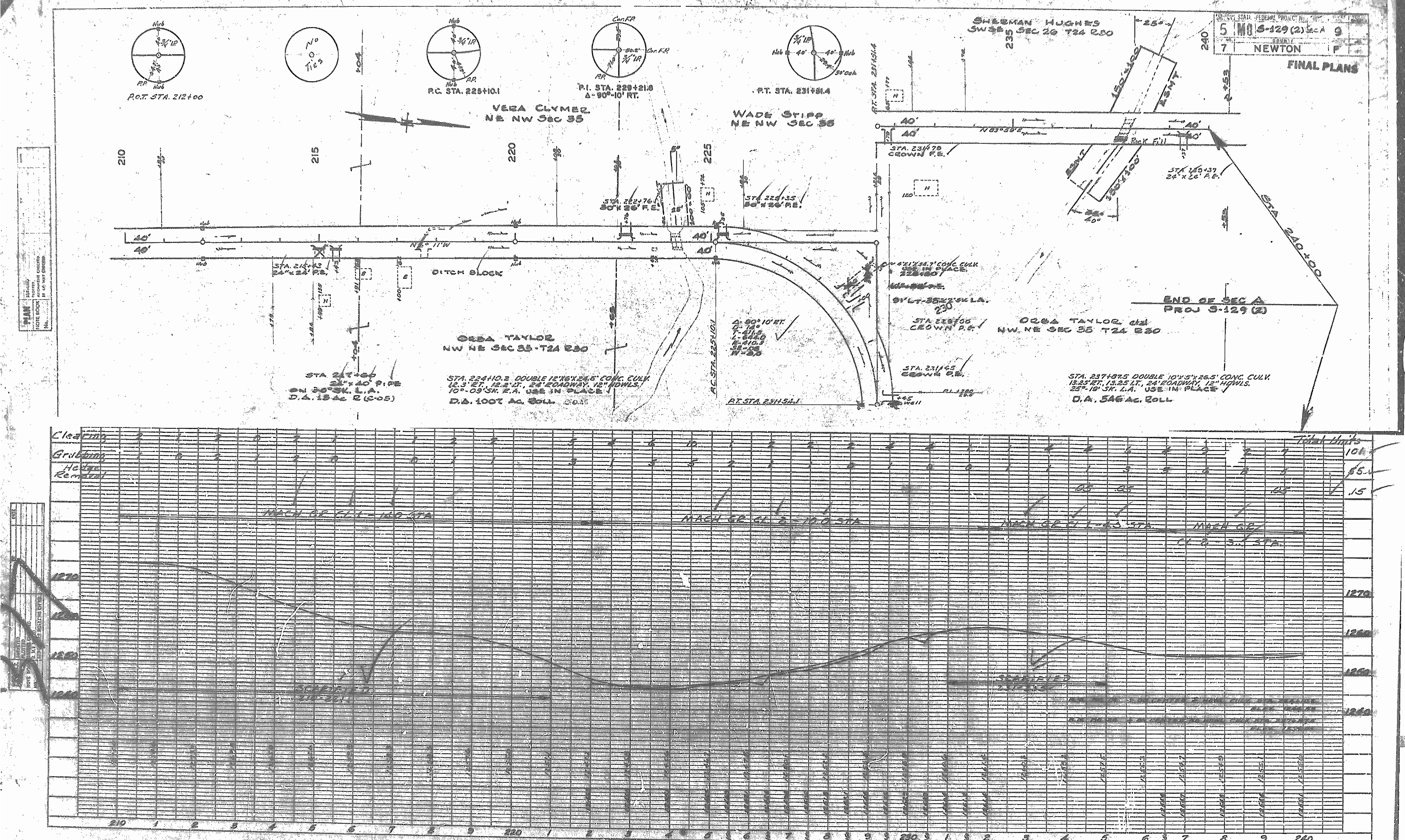
3/4



S-129(2)
NEWTON
FINAL PLANS
GEORGE T. LAWSON
SW NE SEC 34
P.O.T. STA. 152+00
12" Maple
P.I. STA. 167+00
Δ-0°-14' LT.
P.O.T. STA. 170+00
ALVA McGARRAH
SE NE SEC 34
STA. 151+88 CROWN S.E.
100' T.D. LT ON 32° SKEW
STA. 151+00 CROWN F.E.
STA. 157+63 18"x22' P.E.
STA. 167+60 CROWN F.E.
STA. 176+00 CROWN F.E.
STA. 178+28 CROWN S.E.
N84°16'E
N84°02'E
STA. 150+95 CROWN F.E.
STA. 151+91 18"x30' PIPE
STA. 160+62 18"x22' P.E.
STA. 168+00 CROWN F.E.
STA. 178+26 12"x20' P.E.
ALVA McGARRAH
NE SE SEC 34
STA 176+38
WILLIAM NICELY
NW SE SEC 34
STA. 152+56.8, 4'x1.5'x24' CONC. CULV. 11.7' RT. 12.3' LT. 12" HDWLS. USE IN PLACE
D.A. 40 Ac ROLL (C-0.4)
STA. 176+38.2, 4'x3'x24' CONC. CULV. 11.8' RT. 12.2' LT. 12" HDWLS. USE IN PLACE
D.A. 43 Ac ROLL (C-0.5)
24' ROW
Clearing
Grubbing
Hedge Removal
Totals
147
90
.50
MACH. GR. CL. 1 - 25.0 STA.
MACH. GR. CL. 2 - 2.5 STA.
SCARIFIED 163+75



S-129(2) 8.
7 NEWTON F
FINAL PLANS
P.O.T. STA. 85+50
P.C. STA. 200+51.9
P.I. STA. 204+63.8
Δ-90°-13' LT.
P.T. STA. 206+96.3
VERA CLYMER
SE NW SEC 35-T24-R30
VERA CLYMER
SW NW SEC 35
ORBA TAYLOR
SW NE SEC 35
W. C. HILL
NW SW SEC 35
R. L. TAYLOR EST
NE SW SEC 35 T24-R30
STA. 180+45
CROWN F.E.
STA. 184+60
CROWN F.E.
STA. 181+60
18"x34' PIPE
D.A. 5 Ac ROLL (C-65)
STA. 191+31
12"x20' F.E.
STA. 193+70
15"x20' F.E.
STA. 193+75
15"x20' F.E.
STA. 196+34.8, 10'x5'x24' CONC. CULV.
12' RT, 12' LT. 12" HDWLS. USE IN PLACE
D.A. 162 Ac. ROLL 24' EDWY
N84°02'E
PLAN
PROFILE
Clearing
Grubbing
Hedge Removal
Total Units
77
32
34.5
MACH. GR. CL 1 - 17.0 STA.
MACH. GR. CL 2 - 13.5 STA.
SCARIFIED
SCARIFIED
SCARIFIED
200-210
1280
1270
1260
1250


5 MO S-129 (2) Sec A 9
7 NEWTON F
FINAL PLANS
P.O.T. STA. 212+00
P.C. STA. 225+10.1
P.I. STA. 229+21.8
Δ-90°-10' RT.
P.T. STA. 231+91.4
VERA CLYMER
NE NW Sec 35
WADE STIPP
NE NW Sec 35
SHERMAN HUGHES
SW SE Sec 26 T24 R30
ORBA TAYLOR
NW NE Sec 35-T24 R30
ORBA TAYLOR etal
NW NE Sec 35 T24 R30
END OF SEC A
PROJ S-129 (2)
STA 240+00
DITCH BLOCK
STA. 215+43
24"x24' P.E.
STA. 222+76
30"x26' P.E.
STA. 228+35
30"x26' P.E.
STA. 231+70
CROWN P.E.
STA. 238+37
24"x26' P.E.
STA. 224+10.2 DOUBLE 12'x6'x24.5' CONC. CULV.
12.3' RT., 12.2' LT., 24' ROADWAY, 12" HDWLS.
10°-09' SK. R.A. USE IN PLACE
D.A. 1007 Ac. Roll.
STA. 237+87.5 DOUBLE 10'x5'x26.5' CONC. CULV.
13.25' RT., 13.25 LT., 24' ROADWAY, 12" HDWLS.
22°-19' SK. L.A. USE IN PLACE
D.A. 546 Ac. Roll
P.C. STA. 225+10.1
P.T. STA. 231+51.1
Rock Fill
ESMT
Clearing
Grubbing
Hedge Removal
Total Units
MACH GR CL 1 - 160 STA
MACH GR CL 2 - 100 STA
MACH GR CL 1 - 65 STA
SCARIFIED
1270
1260
1250
1240
210 1 2 3 4 5 6 7 8 9 220 1 2 3 4 5 6 7 8 9 230 1 2 3 4 5 6 7 8 9 240

Standards

TYP SEC & Earthwork

RTE F
Sec or Proj S129(2)
County NEWTON
Sheet # 10

Surface - Curb & Gutter
Approaches

1BB2

Bridges

DRAINAGE
18A-1

CON-REINF APPURTS,
FINISH Etc

Misc.

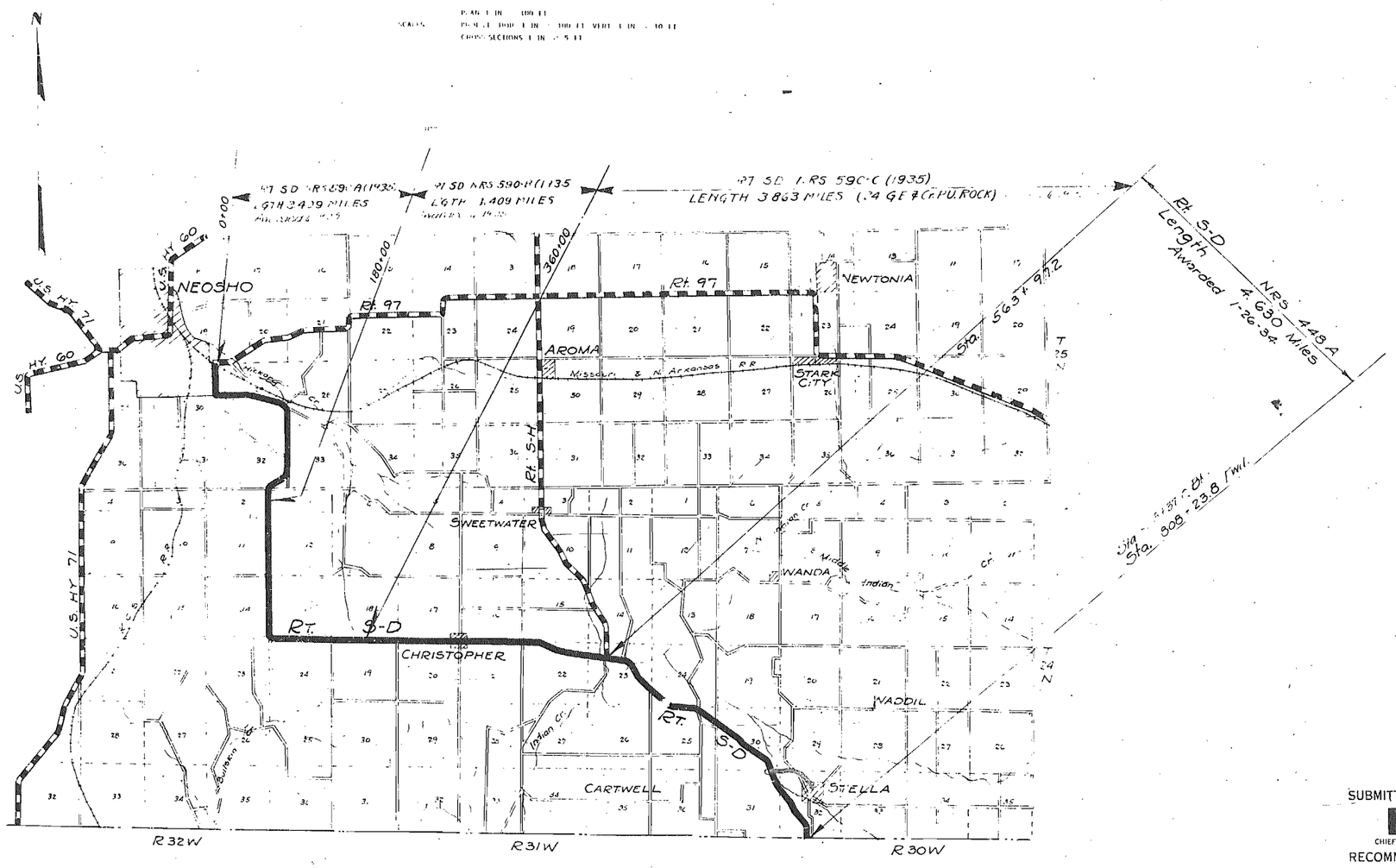
7 NEWTON S-D

MISSOURI
STATE HIGHWAY COMMISSION
PLAN AND PROFILE
OF PROPOSED
STATE ROAD

FEDERAL AID PROJECT

NEWTON COUNTY

SCALES: PLAN 1 IN. = 100 FT.
PROFILE 1000 FT. IN. = 100 FT. VERT. 1 IN. = 10 FT.
CROSS SECTIONS 1 IN. = 5 FT.



CONVENTIONAL SIGNS

STATE AND NATIONAL LINE	LEVEE
COUNTY LINE	CULVERTS
CITY, VILLAGE OR BORDUSA	DROP INLET
TOWNSHIP LINE	TROLLEY POLE
SECTION LINE	POWER POLE
GRANT LINE	TELEPHONE OR TELEGRAPH POLE
FENCE LINE	MARSH
GUARD RAIL	HEDGE
UNFENCED PROPERTY	
RIGHT OF WAY LINE	GROUND ELEVATION
TRAVELED WAY	
RAILROADS	GRADE ELEVATION
RETAINING WALL	SURFACE LINE
BASE OR SURVEY LINE	GRADE LINE

SUBMITTED [redacted]
CHIEF ENGINEER MO. STATE HIGHWAY COMMISSION

RECOMMENDED FOR APPROVAL [redacted]
DISTRICT ENGINEER - DISTRICT NO. 5

RECOMMENDED FOR APPROVAL [redacted]
CHIEF ENGINEER BUREAU PUBLIC ROADS

APPROVED [redacted]
DIRECTOR BUREAU OF PUBLIC ROADS

267

PRINTED ON IMPERIAL TRACING CLOTH
A. S. ALOE CO.

LOCATION ROUTE D TO STELLA

TYPE 24' GRADED EARTH AND CULVERTS

MISSOURI STATE HIGHWAY COMMISSION

SUMMARY OF QUANTITIES

FED. ROAD DIST. No.	STATE	PROJECT	FISCAL YEAR	SHEET No.	TOTAL SHEETS
5	MO.			2-A	
DIV. No.	COUNTY			ROUTE	SEC. No.
7	NEWTON			SF	1

METAL ARCH CULVERT

Station	66"	Cl 3 Exc	Remarks
38+25	44	36	Additional Length for Side Road
TOTALS	44	36	

CROSS-ROAD CULVERT PIPE

Station	24"	30"	36"	Cl 3 Exc	Remarks
28+00			32'	27	
33+85	34'			14	
38+40				20	Removal
38+25			88	36	Add'l Round Length for Side Road Double Pipe
TOTALS	34'		88 38	97	

ENTRANCE & SIDE-ROAD CULVERT PIPE

Station	Type of End	Side	15"	18"	24"
3+00	PE	Lt.			24'
18+28	SR	Lt.			32'
23+00	PE	Lt.	20		
27+75	PE	Lt.	20		
29+00	PE	Lt.	22		
34+88	Conc. Slopes	Lt.	8		
35+71	PE	Lt.	20		
39+00	PE	Lt.	24		
41+00	SR	Lt.	24		
43+50	PE	Lt.	20		
45+57	SR	Lt.		30	
TOTALS			158	30	56

LENGTH OF PROJECT

End of Project	Station	45+76.5		
Beginning of Project	Station	0+00		
Apparent Length		4576.5	Feet	
Equations and Exceptions:				
Total Corrections		None	Feet	
Net Length of Project		4576.5	Feet	
State Length		0.866	Miles	
Federal Length			Miles	

EXCAVATION

Station	Und. Exc.	Borrow	Heating Grading
0+00			
1+43.6		157	
2+43.8	BRIDGE IN PLACE		
11+00	891	160	
30+00	91	11	19.0
36+00		32	6.0
41+00	693		
45+76.5	66	75	4.8
SUB-TOTALS-	1741	435	29.8
Borrow	435		
TOTALS-	2176		29.8

CLEARING & GRUBBING

Sht #	Units Clearing	Units Grubbing
3	106	106
4	7	7
TOTALS-	113	113
	= 1.3 AC	= 1.3 AC

GENERAL SUMMARY

ITEM NO.	DESCRIPTION	UNIT	TOTAL UNITS	NO. UNITS FED AID ONLY
1-A	Clearing	Acre	1.3	
1-B	Grubbing	Acre	1.3	
1-E	Unclassified Excavation	Cu. Yd.	2176	
1-I	Cl 3 Excav. for Structures	Cu. Yd.	97	
1-O	Machine Grading	Station	29.8	
18-B	15" Corr. Metal Culvert Pipe	Lin. Ft.	158	
18-B	18" Corr. Metal Culvert Pipe	Lin. Ft.	30	
18-B	24" Corr. Metal Culvert Pipe	Lin. Ft.	90	
18-B	30" Corr. Metal Culvert Pipe	Lin. Ft.	88	
18-B	36" Corr. Metal Culvert Pipe	Lin. Ft.	38	

Prepared By Thos. H. Curtis Date May 24 1937 Checked in Div. Office By _____ Date _____ 19__ Checked in Central Office By _____ Date _____ 19__ Revised By _____ Date _____ 19__

768

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FED. ROAD DIST. No.	STATE	FED. AID PROJECT	FISCAL YEAR	SHEET No.	TOTAL SHEETS
5	MO			3	
DIV. No.	COUNTY			ROUTE	FED. No.
7	NEWTON			S-F	1

F. E. & S. R. APPROACHES

STATION	SIDE	15"	18"	24"			EXC.	EMB.	BUR.	INCL. IN	Cu. Yds. Surfacing
[illegible]	LT.	CROWN			PE.	INCL. IN X SECTS.					2.0
[illegible]	LT.			24	PE.			23		BAL.	[illegible]
18+28	LT.			32	PE.		31	18		M.G.	[illegible]
18+50	LT.	CROWN			PE.	(FILL)		5	6	M.G.	1.3
23+00	LT.	20			PE.			4	5	M.G.	[illegible]
26+50	R&L	CROWN			PE.		40	27		M.G.	
27+75	LT.	20			PE.		5	4		M.G.	[illegible]
29+00	LT.	22			PE.		15	11		M.G.	1.3

STD. PIPE CULVERTS

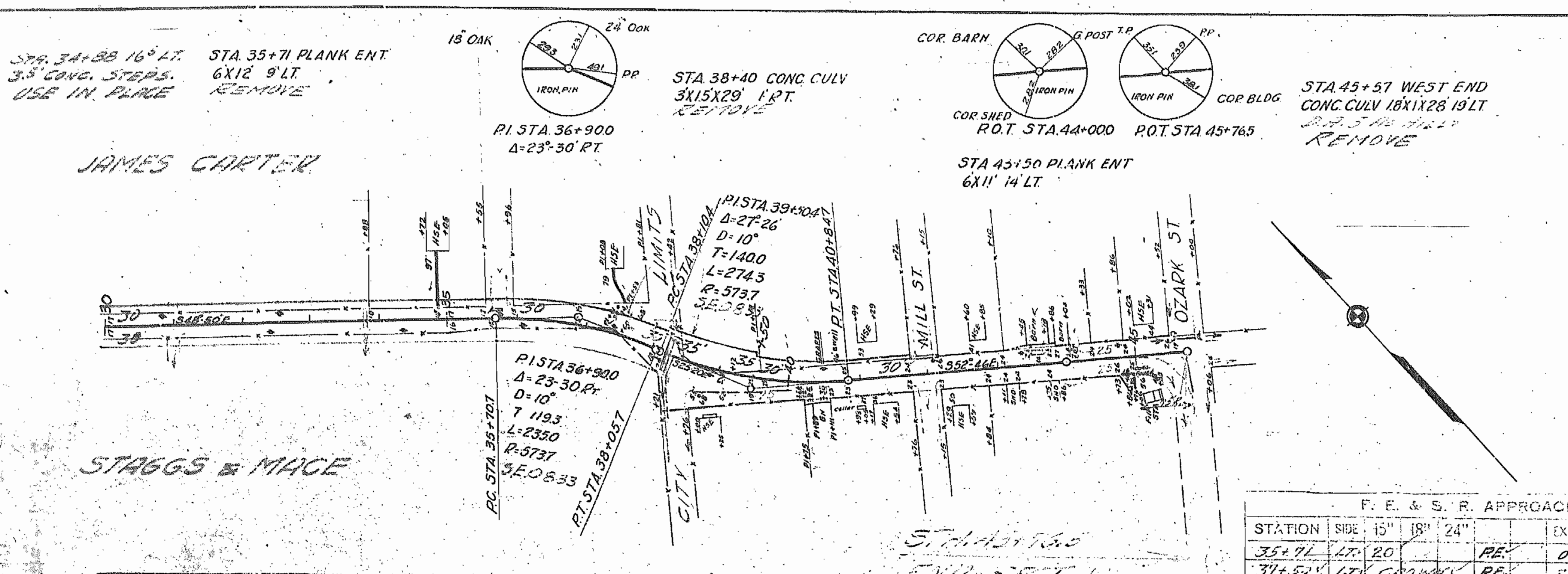
STATION	18"	24"	30"	36"	DRAINAGE AREA	CL. 3	REMARKS
28+00				38	20-N	27	

B.M. #1 "X" IN CENTER OF LOWER CONC. STEP. 50' RT. STA. 740+26 (RT. S-D) EL. 1126.59

B.M. #2 "X" ON TOP OF WEST ABUT. S.W. COR. 7' RT. STA. 1+46 EL. 1112.20

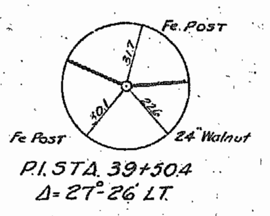
B.M. #3 SPK-NUT IN ROOT 18" WALNUT 45' RT. STA. 17+40 EL. 1125.91

FED. ROAD DIST. No.	STATE	FED. AID PROJECT	FISCAL YEAR	SHEET No.	TOTAL SHEETS
5	MO.			4	
DIV. No.	COUNTY			STATE SEC. No.	
7	NEWTON			S-F	1



STA. 34+88 16' LT. 3.5' CONC. STEPS. USE IN PLACE
STA. 35+71 PLANK ENT. 6X12' 9' LT. REMOVE
18" OAK
24" OAK
P.I. STA. 36+900 Δ=23°-30' RT.
STA. 38+40 CONC. CULV. 3X15X29' RT. REMOVE
COR. BARN
G. POST
COR. SHED
P.O.T. STA. 44+000
P.O.T. STA. 45+765
COR. BLDG.
STA. 45+57 WEST END CONC. CULV. 18X1X28' 19' LT. REMOVE
STA. 45+50 PLANK ENT. 6X11' 14' LT.
JAMES CARTER
P.I. STA. 39+504 Δ=27°-26' D=10° T=140.0 L=274.3 R=573.7
CITY LIMITS
P.C. STA. 38+104
P.T. STA. 40+847
MILL ST.
OZARK ST.
P.I. STA. 36+900 Δ=23-30 RT. D=10° T=119.3 L=235.0 R=573.7
P.C. STA. 35+70.7
P.T. STA. 38+05.7
STAGGS & MACE
STELLA

STD. PIPE CULVERTS							
STATION	18"	24"	30"	36"	DRAINAGE AREA	Cl.3 EXCAV.	REMARKS
33+88		34			8-A	14	
38+40						20	Removal
38+25			88		40-A	36	Double Line



F. E. & S. R. APPROACHES											
STATION	SIDE	15"	18"	24"			EXC.	EMB.	BOR.	INCL. IN	Cu. Yds. Surfacing
35+71	LT.	20			P.E.		0	5	6	M.G.	1.3
37+52	LT.	CROWN			P.E.		34	1		BRK.	1.3
38+00	LT.	24			P.E.		23	6			2.9
38+40	RT.	CROWN			S.R.			190		BAL.	4.2
41+9.5	LT.	24			S.R.		57	5		M.G.	2.3
41+93.5	RT.	CROWN			S.R.		0	42	56	M.G.	2.7
43+50	LT.	20			P.E.		1	8	9	M.G.	1.3
44+07	LT.	CROWN			P.E.		2	8	10	M.G.	1.3
45+57	LT.		30		S.R.		8	6		M.G.	2.4
45+57	Rt.	CROWN			S.R.		Incl. Rdwy. Exc.				4.2
34+88	LT.	8	(Conc. Pipe)								
31+00	RT.	CROWN			P.E.			18	22	M.G.	1.3

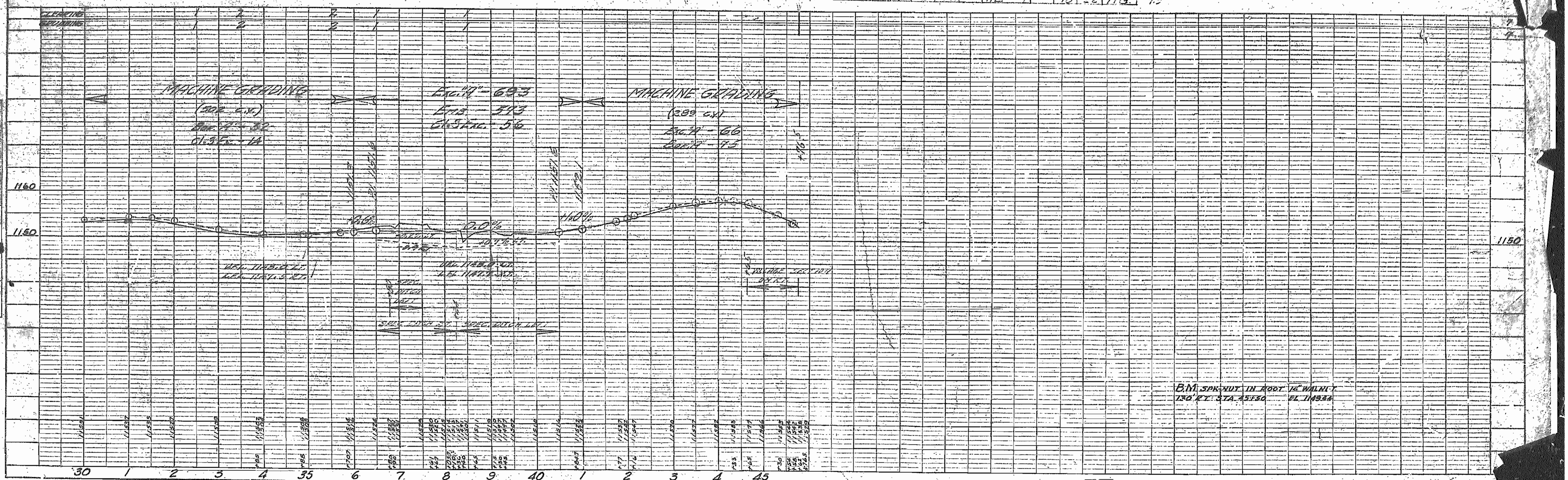
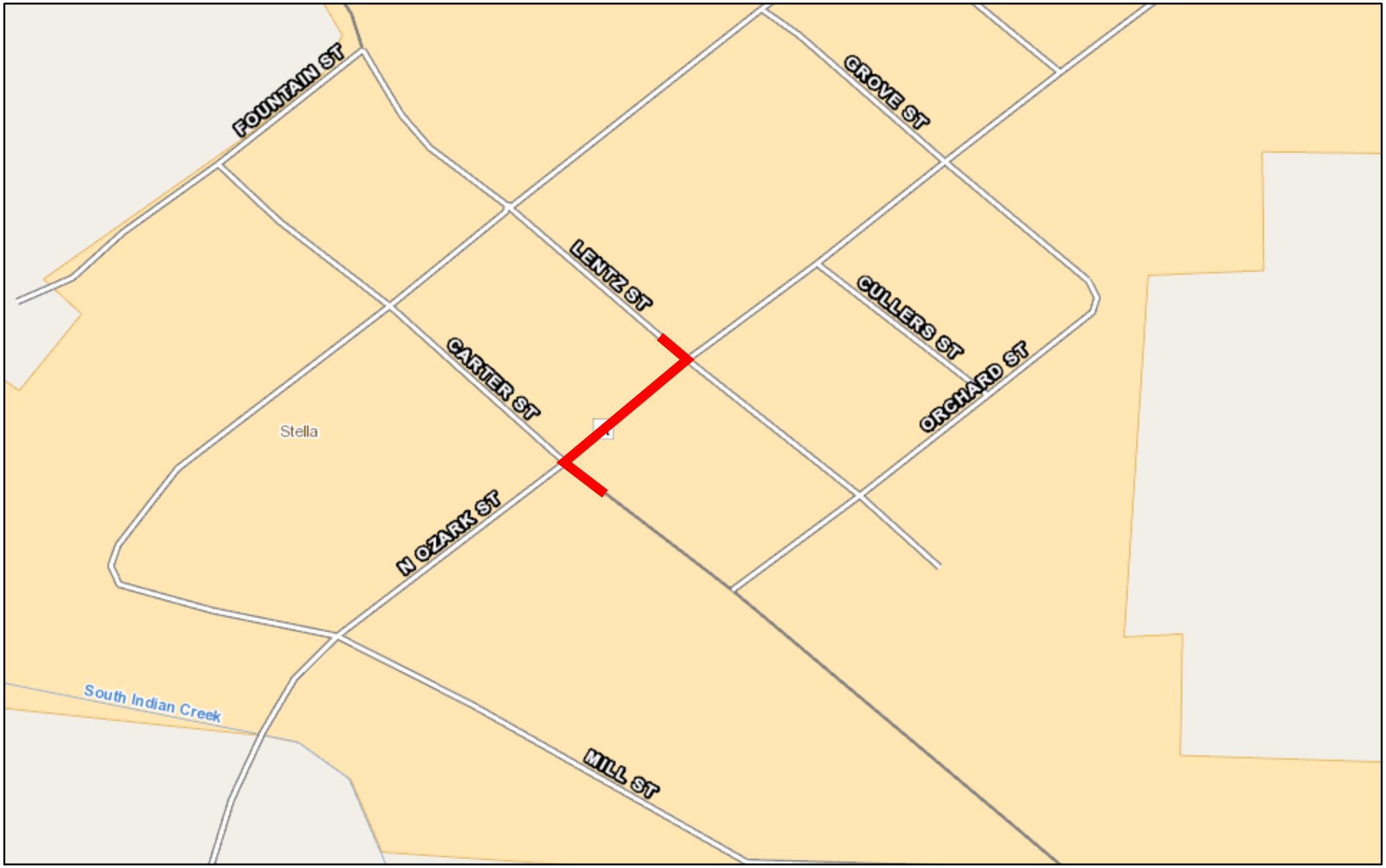


PLATE 1—PLAN—PROFILE—U. P. R. & R. C. STANDARD
KEUFFEL & ESSER CO. NEW YORK

J7S3506 - City of Stella



February 5, 2023

1:3,000

0 0.02 0.04 0.08 mi

0 0.03 0.07 0.13 km

Missouri Department of Transportation

= PROJECT LIMITS (Route A)