

INDEX OF SHEETS

SHEET NO.	TITLE SHEET	DESCRIPTION
1	TITLE SHEET	DETOUR LAYOUT
2	TITLE SHEET	TYPICAL CROSS SECTIONS
3	TITLE SHEET	ESTIMATE AND QUANTITY
4-16	TITLE SHEET	PLAN PROFILE
17	TITLE SHEET	HAUL DIAGRAM
18	TITLE SHEET	ROADWAY DETAILS
19	TITLE SHEET	DRAINAGE LAYOUT
20	TITLE SHEET	CULVERT LAYOUTS
21-22	TITLE SHEET	BRIDGE LAYOUTS
23	TITLE SHEET	STRUCTURAL DETAILS AND STANDARDS
24	TITLE SHEET	CROSS SECTIONS AT CULVERT SITES
25-26	TITLE SHEET	M-47 SWC-39 BW-46 (1) & (2)

STATE OF TEXAS
STATE HIGHWAY DEPARTMENT

PLANS OF PROPOSED
STATE HIGHWAY IMPROVEMENT

FEDERAL AID PROJECT.
S-1090 (11)

PLAN: 1 IN. = 100 FT.
PROFILE: 1 IN. HOR. = 100 FT., 1 IN. VERT. = 10 FT.
CROSS SECTIONS: 1 IN. HOR. AND VERT. = 5 FT.
OTHERS AS NOTED.

NET LENGTH OF PROJECT = 32.6838 FT. = 6.189 MI.
Roadway = 32.6118 MI. = 6.176 MI.
Bridges = 720 FT. = 0.015 MI. (No participating)
Tolled = 32.6838 MI. = 6.189 MI.

DE WITT COUNTY
F.M. HIGHWAY NO. 238
FROM U.S. HIGHWAY 87 IN WESTHOFF
TO 6.2 MILES SOUTHWEST
GRADING, STRUCTURES, ROADBED TREATMENT, AND SINGLE ASPH. SURF. TRTMENT.

FIELD CHANGES
NONE



NOTE:
Special Provisions Regarding
"Detours, Barricades, Warning Signs,
Sequence of Work, Etc." shall govern
on this Project.

SPECIFICATIONS ADOPTED BY THE STATE HIGHWAY DEPARTMENT
OF TEXAS, JANUARY 13, 1938, AND APPROVED BY THE PUBLIC ROADS
ADMINISTRATION, FEBRUARY 16, 1939, AND SPECIFICATION ITEMS
LISTED AND DATED AS FOLLOWS, SHALL GOVERN ON THIS PROJECT:
REQUIRED CONTRACT PROVISIONS FOR
FEDERAL AID PROJECTS APPROVED AUGUST
5, 1946.

DELIVERY POINT FOR MATERIALS
R.R. DELIVERY PT. RAILROAD DIST. FROM PROJECT CAPACITY
WESTHOFF T. & N.O. AT BEG. OF PROJECT AMPLE

EQUATION
STATION 185+41.8 = STATION 185+00 = +41.8'

NOTE: FEDERAL PROJECT MARKERS OF APPROVED DESIGN WILL BE
ERECTED AT EACH END OF PROJECT PRIOR TO COMPLETION.
LAYOUT SCALE: 1 IN. = 2000 FT.



CORRECT: Aug 30 1948

J.P. Kauter
J.P. RESIDENT ENGINEER

RECOMMENDED FOR APPROVAL: L-28 1948

M.H. Kauter
DISTRICT ENGINEER

RECOMMENDED FOR APPROVAL	RECOMMENDED FOR APPROVAL
APPROVED	APPROVED

Rocked Treatment Type A.
Minimum depth approx. 5".
Rocked Treatment Type A.
shall be added to present street
in such amounts that a uniform
grade line will be obtained.

Max. 6:1
Usual 8:1

Gravel in place 1" to 6".
Gravel in place shall be
scarified, sprinkled and com-
pacted by rolling and shaped
to a smooth surface before
rocked treatment type A
is placed.

PRESENT ROAD

HALE SECTION
Occurs approximately 80 Stas.

HALE SECTION
Occurs approximately 246 Stas.

CITY SECTION

To be used between Sta. 0+00 & Sta. 13+00

Minimum 30' R.O.W. Line

REGULAR SECTION

Used Approximately 227 Stations

CUT SECTION

Used Approximately 7 Stations

FILL SECTION

Used Approximately 13 Stations

COMPLETED ROAD

Used Approximately 313 Stations

TYPICAL CROSS SECTIONS

GENERAL NOTES

All curves to be super-elevated in accordance
with attached standard SWC-39, Table 2. Curves
shall not be widened.
In those instances where fixed features re-
quire, the governing slopes indicated herein may
be varied from between the limits and to the ex-
tent determined by the Engineer.

RATE OF APPLICATION

Prime Coat (MC-1) @ 0.3 Gal. per Sq. Yd.
Asphalt OA-175 @ 0.35 Gal. per Sq. Yd. Min.
0.50 Gal. per Sq. Yd. Max.
1.0 CT per 80 Sq. Yd. Min.
1.0 CT per 60 Sq. Yd. Max.
Aggregate

Sheet No.	DATE	PROJECT AND SHEET NO.	DATE
13	DECEMBER 1961	510290 (1)	2

SUMMARY OF GRADING

Sheet No.	Station	Clearing & Grubbing (Cu Yds)		Common Excavation (Cu Yds)		Can Channel Excavation (Cu Yds)		Road Grader Work (Stations)		Overhaul (Yd. Chrs)	
		Est.	Final	Est.	Final	Est.	Final	Est.	Final	Est.	Final
4	0+00	0+00	0.14	0+00	19.84	0	0	0	0	0	0
5	19+00	0+00	0.29	0+00	18.70	0	0	0	0	0	0
6	46+00	0+00	0.00	0	0	0	0	0	0	0	0
7	73+00	0+00	0.00	0	0	0	0	0	0	0	0
8	100+00	0+00	0.45	0+00	23.18	0	0	0	0	0	0
9	127+00	0+00	0.80	0+00	25.68	0	0	0	0	0	0
10	153+00	0+00	0.80	0+00	25.77	0	0	0	0	0	0
11	176+00	0+00	0.70	0+00	25.17	0	0	0	0	0	0
12	201+00	0+00	0.20	0+00	15.26	0	0	0	0	0	0
13	228+00	0+00	1.10	0+00	27.27	0	0	0	0	0	0
14	255+00	0+00	0.58	0+00	16.37	0	0	0	0	0	0
15	282+00	0+00	0.98	0+00	11.76	0	0	0	0	0	0
16	309+00	0+00	0.87	0+00	8.64	0	0	0	0	0	0
	Totals	0+00	6.91	0+00	21.704	0+00	0	0	0	0	0

SUMMARY OF CULVERTS

Sheet No.	Station	Description	C.G.M. Pipe Arch													
			Uncl. Structural Exc. (Cu Yds)	Des. #2 Lin. Ft.	Des. #3 Lin. Ft.	Des. #4 Lin. Ft.	Des. #6 Lin. Ft.	Des. #7 Lin. Ft.	Des. #8 Lin. Ft.	Des. #9 Lin. Ft.	Des. #10 Lin. Ft.	Des. #11 Lin. Ft.	Des. #12 Lin. Ft.	Des. #13 Lin. Ft.	Des. #14 Lin. Ft.	Des. #15 Lin. Ft.
4	11+05	1- Des. #4 x 36' C.G.M. Pipe Arch	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	23+85	1- Des. #7 x 46' C.G.M. Pipe Arch	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	41+56+56	1- Des. #7 x 24' C.G.M. Pipe Arch	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	71+45	1- Des. #4 x 60' C.G.M. Pipe Arch	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	78+60	1- Des. #4 x 46' C.G.M. Pipe Arch	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	85+08	1- Des. #6 x 40' C.G.M. Pipe Arch	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	88+88	2- Des. #3 x 14' C.G.M. Pipe Arch	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	91+35	1- Des. #3 x 14' C.G.M. Pipe Arch	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	97+95	1- Des. #4 x 38' C.G.M. Pipe Arch	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	131+85	1- Des. #8 x 44' C.G.M. Pipe Arch	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	154+15	1- Des. #4 x 42' C.G.M. Pipe Arch	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	167+00	1- Des. #6 x 36' C.G.M. Pipe Arch	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	196+35	2- Des. #6 x 40' C.G.M. Pipe Arch	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	213+40	1- Des. #4 x 38' C.G.M. Pipe Arch	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	247+23	4- Des. #7 x 44' C.G.M. Pipe Arch	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	273+00	6- Des. #8 x 44' C.G.M. Pipe Arch	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Totals		0	0	0	0	0	0	0	0	0	0	0	0	0	0

STRUCTURES TO BE REMOVED

Station	Description	Size
78+60	Wood Culvert	16' x 20'
85+09	Wood Culvert	3' x 20'
148+88	Wood Culvert	6' x 12'
213+35	Wood Culvert	6' x 12'
37+85	Wood Culvert	16' x 20'
247+18	Wood Culvert	16.5' x 17.6'
247+56	Wood Culvert	16' x 20'
273+00	Wood Bridge	14' x 22'

STRUCTURES TO BE REMOVED & REPLACED

Station	Description	Size
11+13.5	C.G.M. Pipe	1-84' x 26'
71+14	C.G.M. Pipe	1-30' x 24'
234+38	C.G.M. Pipe	1-18' x 20'
252+71	C.G.M. Pipe	1-12' x 20'
31+50	C.G.M. Pipe	1-18' x 12'
241+55.6	C.G.M. Pipe	1-32' x 34'

Item 202 Sprinkling
Existing Roadbed @ 20 Gals. per Cu. Yd.
Embankment @ 20 Gals. per Cu. Yd.
Roadbed Trfm. 7' x 14' @ 50 Gals. per Cu. Yd.
Item 203 & Sol. - Rolling.
Roadbed Trfm. 7' x 14' @ 1/2 Hr. per Sta.
Asph. Surf. Cts. @ 1 Hr. per 1500 Sq. Yds.
Item 203.4 & Sol. Rolling.
Existing Roadbed @ 1/2 Hr. per Sta.
Embankment @ 1 Hr. per 200 C.Y.
Roadbed Trfm. 7' x 14' @ 1/2 Hr. per Sta.
Item 203.8 & Sol. - Rolling.
Roadbed Trfm. 7' x 14' @ 1/2 Hr. per Sta.
Asph. Surf. Cts. @ 1 Hr. per 1500 Sq. Yds.
Prime Coat (Mc.) 0.9 Gal. / S.Y.
Single Asphalt Surface Treatment
Asphalt (QA-175) 0.95 Gal. per S.Y.
Aggregate 10 C.Y. / 80 S.Y.

BASIS OF ESTIMATING

ESTIMATE SUMMARY

ITEM NO.	DESCRIPTION	RURAL		TOTALS		UNIT
		Est.	Final	Est.	Final	
100	Clearing & Grubbing	0+00	6.91	0+00	6.91	Acres
101	Common Road Excavation	0+00	21.704	0+00	21.704	C.Y.
103	Common Channel Excavation	0+00	13.90	0+00	13.90	C.Y.
104	Uncl. Structural Excavation	0+00	14.76	0+00	14.76	C.Y.
108	Road Grader Work	0+00	6.6	0+00	6.6	Sq. Yds.
110	Overhaul	0+00	33.2	0+00	33.2	Yd.
202	Sprinkling	0+00	1174.3	0+00	1174.3	MG
203.8	Rolling	0+00	65.25	0+00	65.25	Hr.
203.8.5	Rolling	0+00	30.7	0+00	30.7	Hr.
203.8.5.5	Rolling	0+00	2.25	0+00	2.25	Hr.
208.5	Roadbed Treatment (Type 1)	0+00	21.094	0+00	21.094	C.Y.
210.5	Add'l. Quarry Mile Haul	0+00	183.239	0+00	183.239	C.Y.
300	Prime Coat (Mc.)	0+00	18.275	0+00	18.275	Gal.
304.8	Asphalt (QA-175)	0+00	23.400	0+00	23.400	Gal.
304.8.5	Aggregate (Grade A)	0+00	871	0+00	871	C.Y.
301	C.G.M. Pipe Arch - Des. 2	0+00	24	0+00	24	L.F.
301	C.G.M. Pipe Arch - Des. 3	0+00	260	0+00	260	L.F.
301	C.G.M. Pipe Arch - Des. 4	0+00	120	0+00	120	L.F.
301	C.G.M. Pipe Arch - Des. 6	0+00	222	0+00	222	L.F.
301	C.G.M. Pipe Arch - Des. 7	0+00	308	0+00	308	L.F.
500	Removing Old Structures	0+00	7	0+00	7	Cu Yds.
501	Relaying Culvert Pipe (Over 18" Dia.)	0+00	52	0+00	52	L.F.
501	Relaying Culvert Pipe (Over 18" Dia.)	0+00	84	0+00	84	L.F.

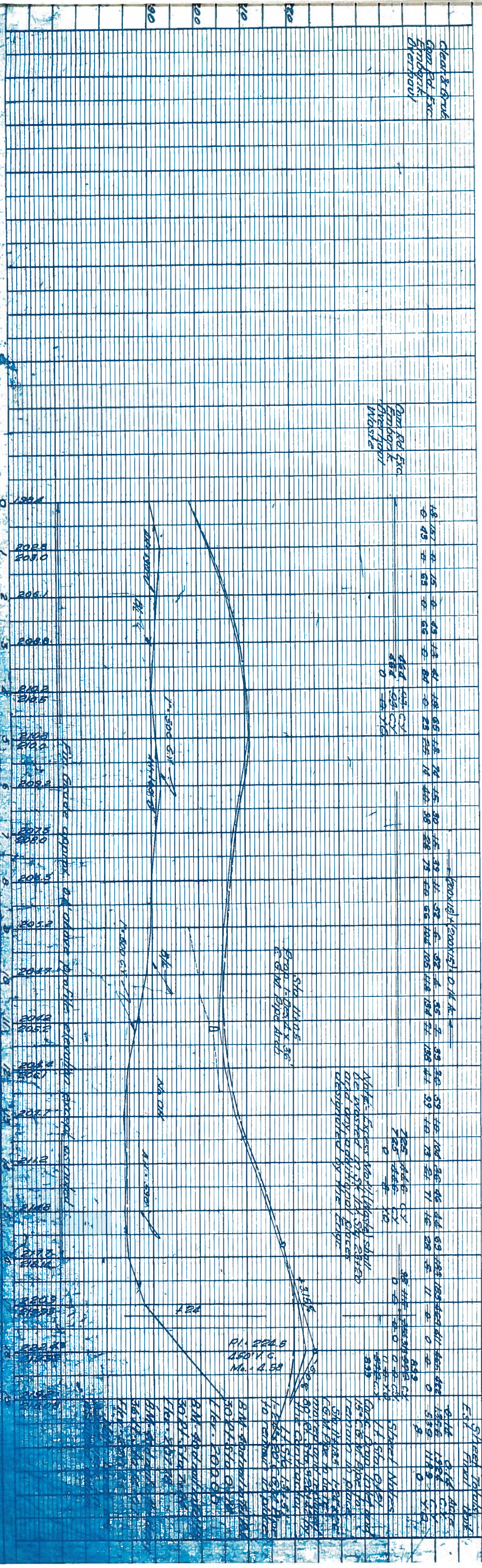
NON-PARTICIPATING IN FEDERAL AID
Work to be performed by State Hwy. Maintenance Forces.
Special - Repair Existing Structure (Lump Sum)

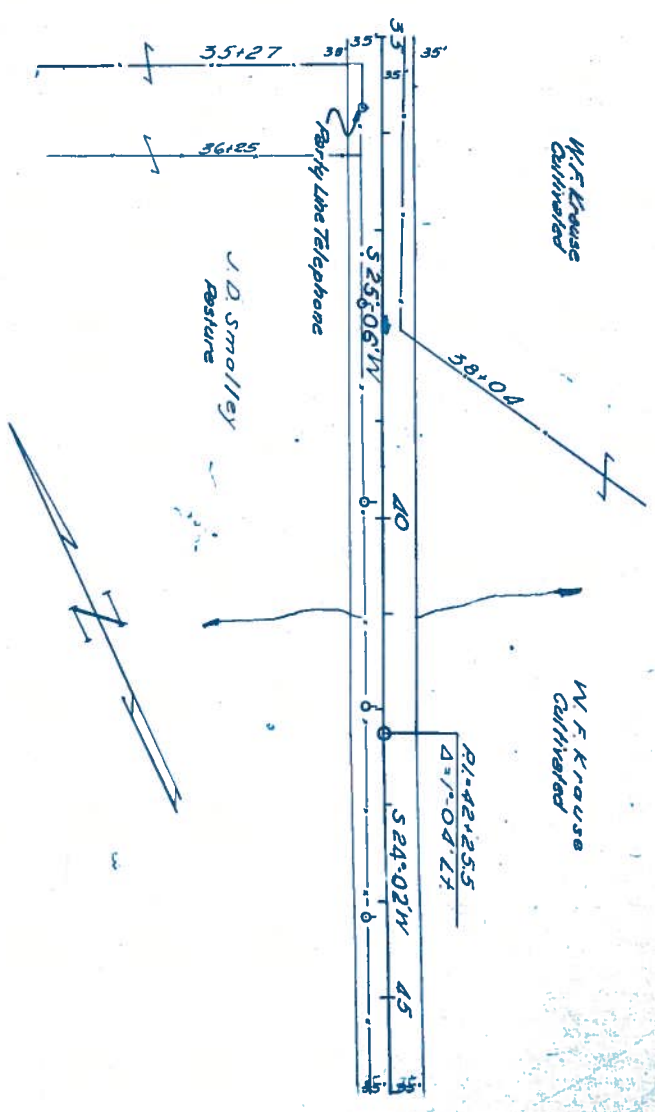
GENERAL NOTES:

Where Channels are shown on Plan-Profile Sheets, the channel shall be excavated two feet wider than span of structure and to an elevation of 42 ft above the flow line within the structure limits. Material above this elevation will be classified as "Common Channel Excavation" and Material below this elevation will be classified as "Unclassified Structural Excavation" and paid for accordingly.
Roadway ditches and channels shall be constructed to grade before pipes are installed under special items, "Relaying Culvert Pipe (18" diameter & Under)" and "Relaying Culvert Pipe (Over 18" diameter)."
Cutting, excavating, removing and satisfactorily disposing of all trees stumps, roots, brush, rubbish, vegetation, or other objectional matter from unclassified areas within the right-of-way, Channel right-of-way, and Material Pit areas shall be considered as subsidiary work pertaining to the various bid items of this project.

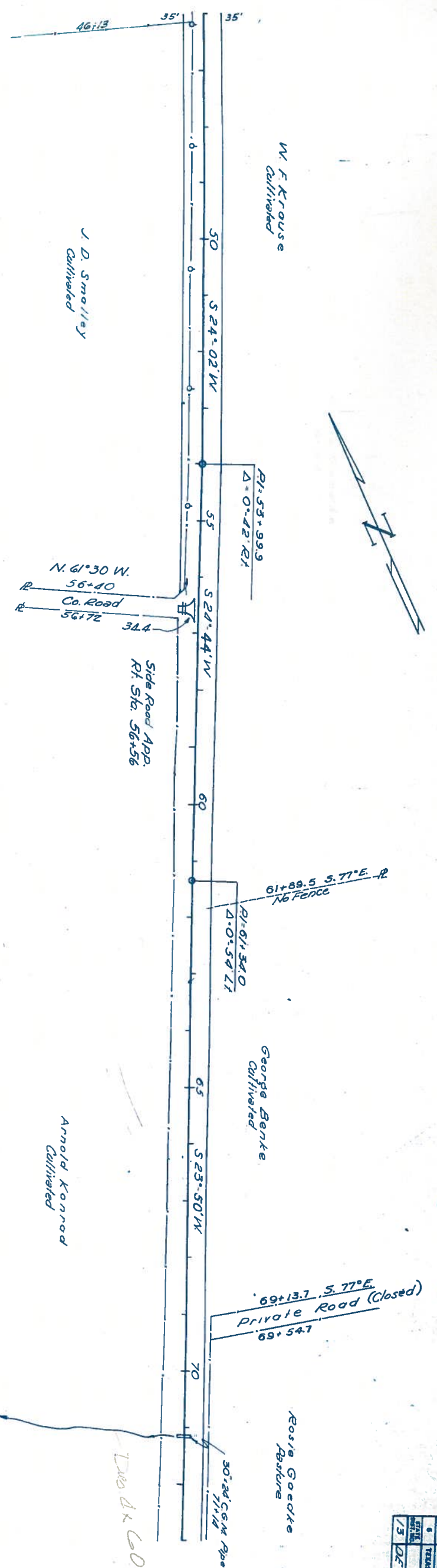
ESTIMATE & QUANTITY SHEET

TRAILER NO.	STATE	FEDERAL AID PROJECT NO.	TRAILER NO.
6	TEXAS	5-18-92	
STATE DEPT. NO.	COUNTY	FEDERAL AID PROJECT NO.	TRAILER NO.
13	Darwin	5-18-92	1

[illegible]



DATE	BY	REVISIONS	REMARKS
5/13	DEWITT	1	1st



Clear & Grub
Rt. Grader Work

27 Stas

25' R. Sbk. 54+56
Prop. 1' Dss. 2' 24"
C&M Pipe Arch
E1 Upst. 252.4
E1 Downst. 252.2

Top Grade approx. 0.6' above E Profile

Sbk. 71+15
Prop. 1' Dss. 43' 60"
C&M Pipe Arch

Sheet Notes
Sta 71+14 1-40' Rd
C&M Pipe Arch
prop. and replaced
30' R. Sbk. 74+76
by the Contractor

Sheet Notes
Est. Final Units
R 0 Area
27 Stas

BM R2881
11+49.93 24.32
BM R2882
11+49.93 24.32
BM R2883
11+49.93 24.32
BM R2884
11+49.93 24.32
BM R2885
11+49.93 24.32

2365
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2985
2990
2995
3000

STATE
DEPT. NO.
13 02

Channel Change Sta. 85+08
Est. Com. Chan. Exc. = 100x10x3 ÷ 27 = 406 yds.
Wasted as directed by the Engr. Final = 29 cx
No Overhaul.

Channel Change Sta. 97+95
Est. Com. Chan. Exc. = 150x8x2 ÷ 27 =
Wasted as directed by the Engr.
No Overhaul.

Block ditch
6 1/2" Wood Cul.
85+05.3 - 85+01.3

Block ditch
6 1/2" Wood Cul.
94+55 - 94+20

Block ditch
6 1/2" Wood Cul.
88+66 - 87+14

Block ditch
6 1/2" Wood Cul.
83+03.3 - 83+12.3

Block ditch
6 1/2" Wood Cul.
78+52.2 - 78+69.2

Block ditch
6 1/2" Wood Cul.
73+52.2 - 73+69.2

Block ditch
6 1/2" Wood Cul.
68+66 - 68+31.4

Block ditch
6 1/2" Wood Cul.
63+20 - 63+14

Block ditch
6 1/2" Wood Cul.
58+66 - 58+31.4

Block ditch
6 1/2" Wood Cul.
53+20 - 53+14

Block ditch
6 1/2" Wood Cul.
48+20 - 48+14

Block ditch
6 1/2" Wood Cul.
43+20 - 43+14

Block ditch
6 1/2" Wood Cul.
38+20 - 38+14

Block ditch
6 1/2" Wood Cul.
33+20 - 33+14

Block ditch
6 1/2" Wood Cul.
28+20 - 28+14

Block ditch
6 1/2" Wood Cul.
23+20 - 23+14

Block ditch
6 1/2" Wood Cul.
18+20 - 18+14

Block ditch
6 1/2" Wood Cul.
13+20 - 13+14

Block ditch
6 1/2" Wood Cul.
8+20 - 8+14

Block ditch
6 1/2" Wood Cul.
3+20 - 3+14

Block ditch
6 1/2" Wood Cul.
-20 - -14

Block ditch
6 1/2" Wood Cul.
-25 - -19

Block ditch
6 1/2" Wood Cul.
-30 - -14

Block ditch
6 1/2" Wood Cul.
-35 - -9

Block ditch
6 1/2" Wood Cul.
-40 - -4

Block ditch
6 1/2" Wood Cul.
-45 - 1

Block ditch
6 1/2" Wood Cul.
-50 - 6

Block ditch
6 1/2" Wood Cul.
-55 - 11

Block ditch
6 1/2" Wood Cul.
-60 - 16

Block ditch
6 1/2" Wood Cul.
-65 - 21

Block ditch
6 1/2" Wood Cul.
-70 - 26

Block ditch
6 1/2" Wood Cul.
-75 - 31

Block ditch
6 1/2" Wood Cul.
-80 - 36

Block ditch
6 1/2" Wood Cul.
-85 - 41

Block ditch
6 1/2" Wood Cul.
-90 - 46

Block ditch
6 1/2" Wood Cul.
-95 - 51

Block ditch
6 1/2" Wood Cul.
-100 - 56

Block ditch
6 1/2" Wood Cul.
-105 - 61

Block ditch
6 1/2" Wood Cul.
-110 - 66

Block ditch
6 1/2" Wood Cul.
-115 - 71

Block ditch
6 1/2" Wood Cul.
-120 - 76

Block ditch
6 1/2" Wood Cul.
-125 - 81

Block ditch
6 1/2" Wood Cul.
-130 - 86

Block ditch
6 1/2" Wood Cul.
-135 - 91

Block ditch
6 1/2" Wood Cul.
-140 - 96

Block ditch
6 1/2" Wood Cul.
-145 - 101

Block ditch
6 1/2" Wood Cul.
-150 - 106

Block ditch
6 1/2" Wood Cul.
-155 - 111

Block ditch
6 1/2" Wood Cul.
-160 - 116

Block ditch
6 1/2" Wood Cul.
-165 - 121

Block ditch
6 1/2" Wood Cul.
-170 - 126

Block ditch
6 1/2" Wood Cul.
-175 - 131

Block ditch
6 1/2" Wood Cul.
-180 - 136

Block ditch
6 1/2" Wood Cul.
-185 - 141

Block ditch
6 1/2" Wood Cul.
-190 - 146

Block ditch
6 1/2" Wood Cul.
-195 - 151

Block ditch
6 1/2" Wood Cul.
-200 - 156

Block ditch
6 1/2" Wood Cul.
-205 - 161

Block ditch
6 1/2" Wood Cul.
-210 - 166

Block ditch
6 1/2" Wood Cul.
-215 - 171

Block ditch
6 1/2" Wood Cul.
-220 - 176

Block ditch
6 1/2" Wood Cul.
-225 - 181

Block ditch
6 1/2" Wood Cul.
-230 - 186

Block ditch
6 1/2" Wood Cul.
-235 - 191

Block ditch
6 1/2" Wood Cul.
-240 - 196

Block ditch
6 1/2" Wood Cul.
-245 - 201

Block ditch
6 1/2" Wood Cul.
-250 - 206

Block ditch
6 1/2" Wood Cul.
-255 - 211

Block ditch
6 1/2" Wood Cul.
-260 - 216

Block ditch
6 1/2" Wood Cul.
-265 - 221

Block ditch
6 1/2" Wood Cul.
-270 - 226

Block ditch
6 1/2" Wood Cul.
-275 - 231

Block ditch
6 1/2" Wood Cul.
-280 - 236

Block ditch
6 1/2" Wood Cul.
-285 - 241

Block ditch
6 1/2" Wood Cul.
-290 - 246

Block ditch
6 1/2" Wood Cul.
-295 - 251

Block ditch
6 1/2" Wood Cul.
-300 - 256

Block ditch
6 1/2" Wood Cul.
-305 - 261

Block ditch
6 1/2" Wood Cul.
-310 - 266

Block ditch
6 1/2" Wood Cul.
-315 - 271

Block ditch
6 1/2" Wood Cul.
-320 - 276

Block ditch
6 1/2" Wood Cul.
-325 - 281

Block ditch
6 1/2" Wood Cul.
-330 - 286

Block ditch
6 1/2" Wood Cul.
-335 - 291

Block ditch
6 1/2" Wood Cul.
-340 - 296

Block ditch
6 1/2" Wood Cul.
-345 - 301

Block ditch
6 1/2" Wood Cul.
-350 - 306

Block ditch
6 1/2" Wood Cul.
-355 - 311

Block ditch
6 1/2" Wood Cul.
-360 - 316

Block ditch
6 1/2" Wood Cul.
-365 - 321

Block ditch
6 1/2" Wood Cul.
-370 - 326

Block ditch
6 1/2" Wood Cul.
-375 - 331

Block ditch
6 1/2" Wood Cul.
-380 - 336

Block ditch
6 1/2" Wood Cul.
-385 - 341

Block ditch
6 1/2" Wood Cul.
-390 - 346

Block ditch
6 1/2" Wood Cul.
-395 - 351

Block ditch
6 1/2" Wood Cul.
-400 - 356

Block ditch
6 1/2" Wood Cul.
-405 - 361

Block ditch
6 1/2" Wood Cul.
-410 - 366

Block ditch
6 1/2" Wood Cul.
-415 - 371

Block ditch
6 1/2" Wood Cul.
-420 - 376

Block ditch
6 1/2" Wood Cul.
-425 - 381

Block ditch
6 1/2" Wood Cul.
-430 - 386

Block ditch
6 1/2" Wood Cul.
-435 - 391

Block ditch
6 1/2" Wood Cul.
-440 - 396

Block ditch
6 1/2" Wood Cul.
-445 - 401

Block ditch
6 1/2" Wood Cul.
-450 - 406

Block ditch
6 1/2" Wood Cul.
-455 - 411

Block ditch
6 1/2" Wood Cul.
-460 - 416

Block ditch
6 1/2" Wood Cul.
-465 - 421

Block ditch
6 1/2" Wood Cul.
-470 - 426

Block ditch
6 1/2" Wood Cul.
-475 - 431

Block ditch
6 1/2" Wood Cul.
-480 - 436

Block ditch
6 1/2" Wood Cul.
-485 - 441

Block ditch
6 1/2" Wood Cul.
-490 - 446

Block ditch
6 1/2" Wood Cul.
-495 - 451

Block ditch
6 1/2" Wood Cul.
-500 - 456

Block ditch
6 1/2" Wood Cul.
-505 - 461

Block ditch
6 1/2" Wood Cul.
-510 - 466

Block ditch
6 1/2" Wood Cul.
-515 - 471

Block ditch
6 1/2" Wood Cul.
-520 - 476

Block ditch
6 1/2" Wood Cul.
-525 - 481

Block ditch
6 1/2" Wood Cul.
-530 - 486

Block ditch
6 1/2" Wood Cul.
-535 - 491

Block ditch
6 1/2" Wood Cul.
-540 - 496

Block ditch
6 1/2" Wood Cul.
-545 - 501

Block ditch
6 1/2" Wood Cul.
-550 - 506

Block ditch
6 1/2" Wood Cul.
-555 - 511

Block ditch
6 1/2" Wood Cul.
-560 - 516

Block ditch
6 1/2" Wood Cul.
-565 - 521

Block ditch
6 1/2" Wood Cul.
-570 - 526

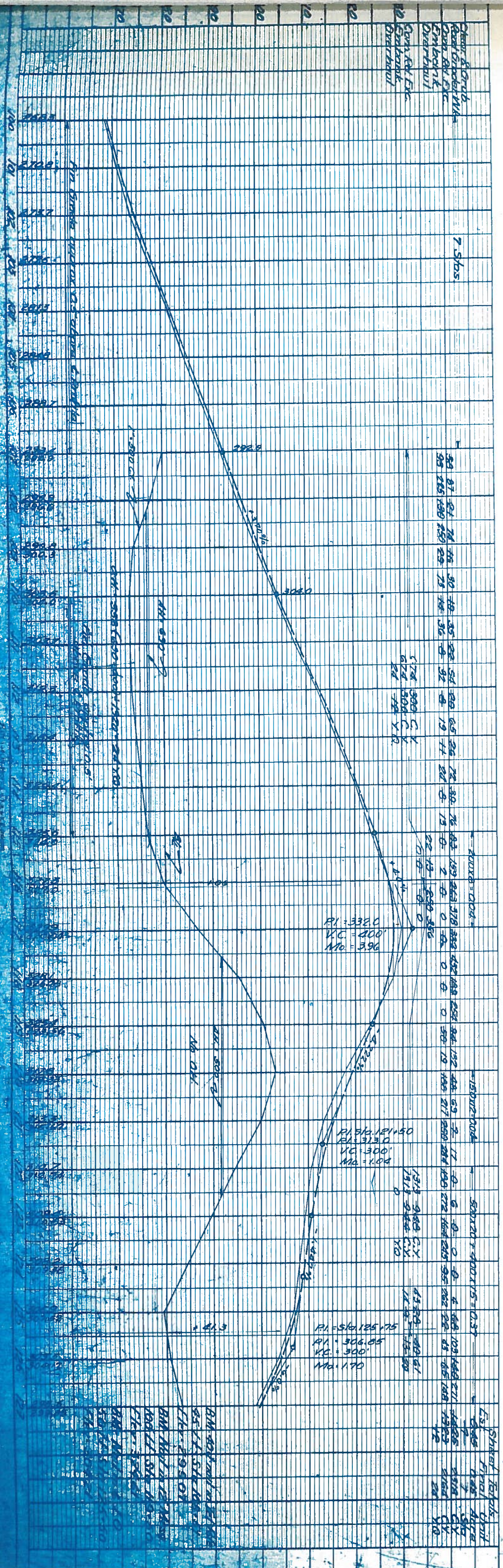
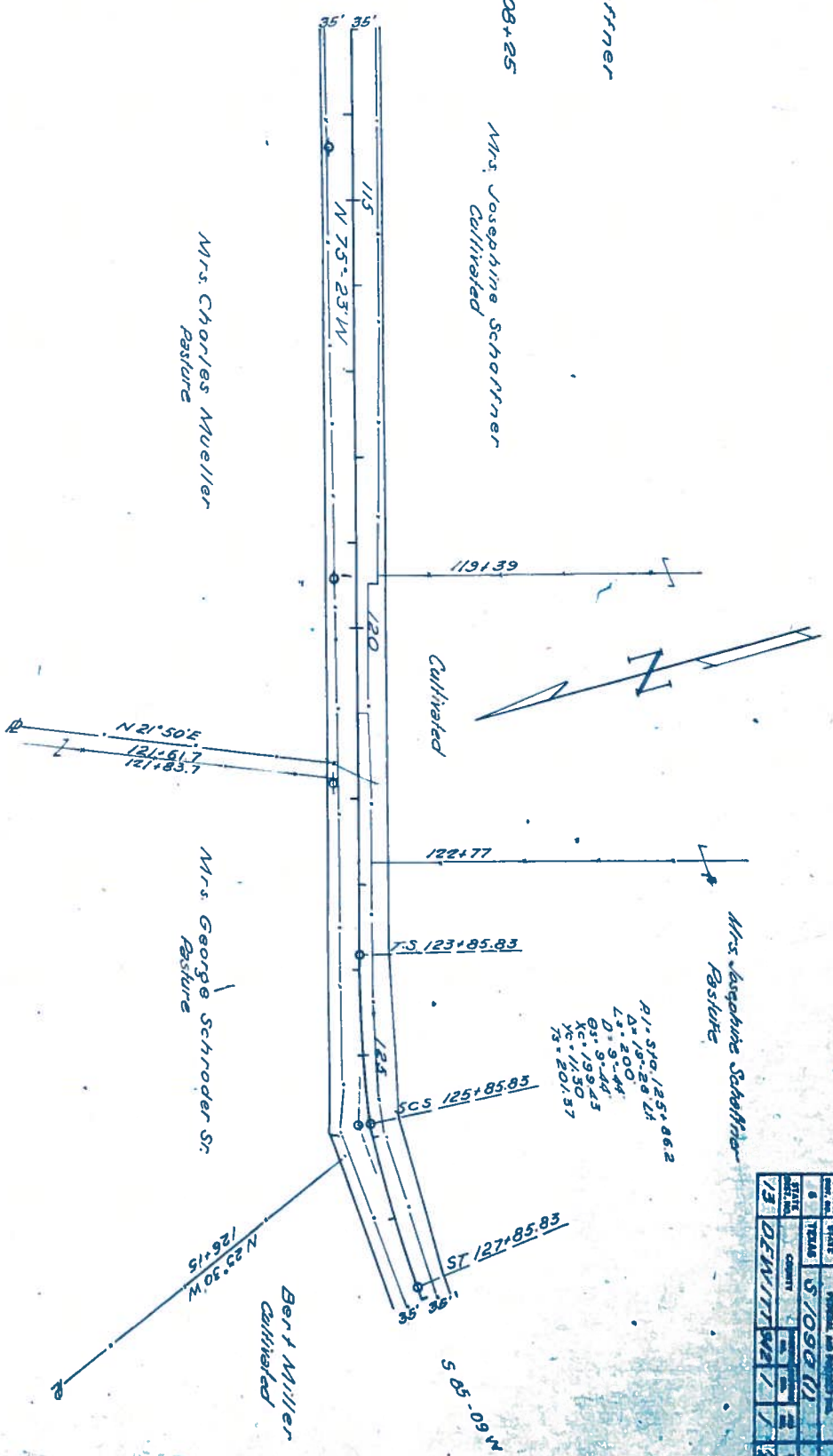
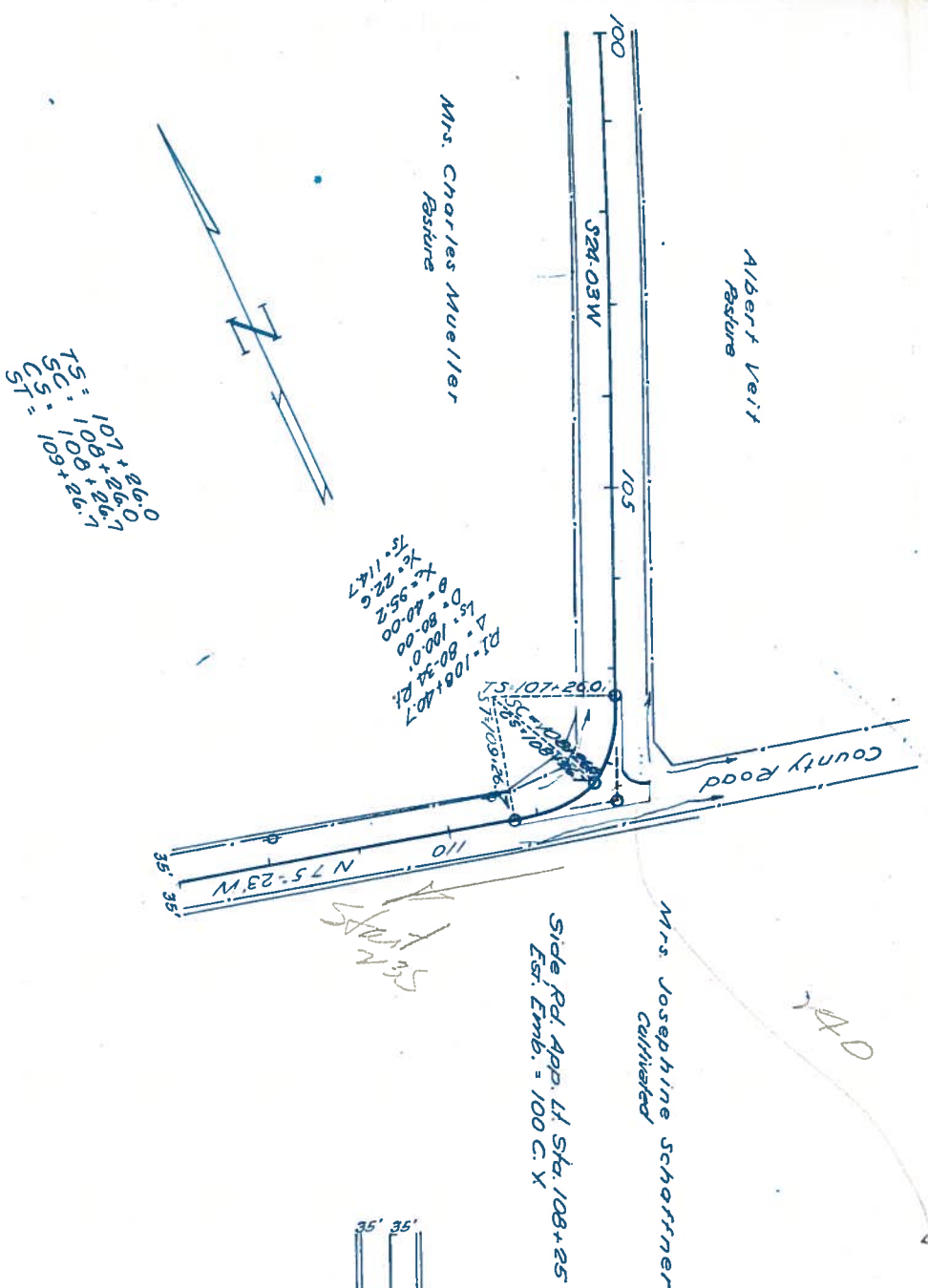
Block ditch
6 1/2" Wood Cul.
-575 - 531

Block ditch
6 1/2" Wood Cul.
-580 - 536

Block ditch
6 1/2" Wood Cul.
-585 - 541

Block ditch
6 1/2" Wood Cul.
-590 - 546

Block



DATE	STATE	PROJECT AND PROJECT NO.	SCALE	DATE
0	TEXAS	51080011		
SHEET NO.	COUNTY	TOWNSHIP	RANGE	SECTION
13	DEWITT	P44	Y	24

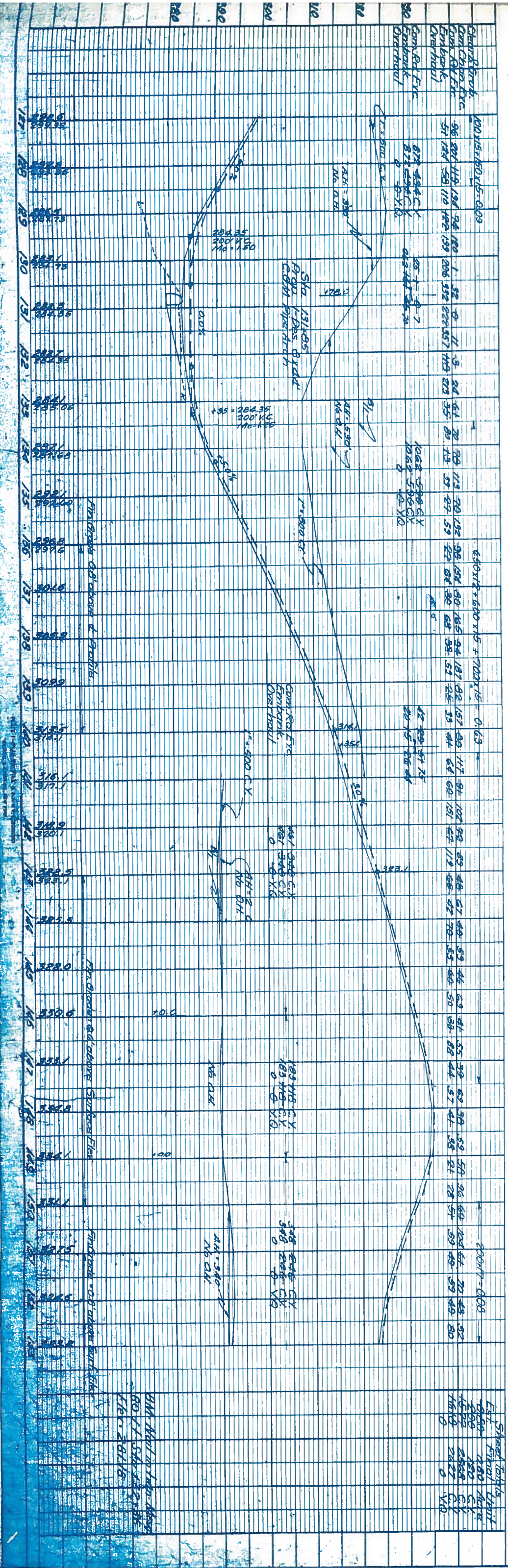
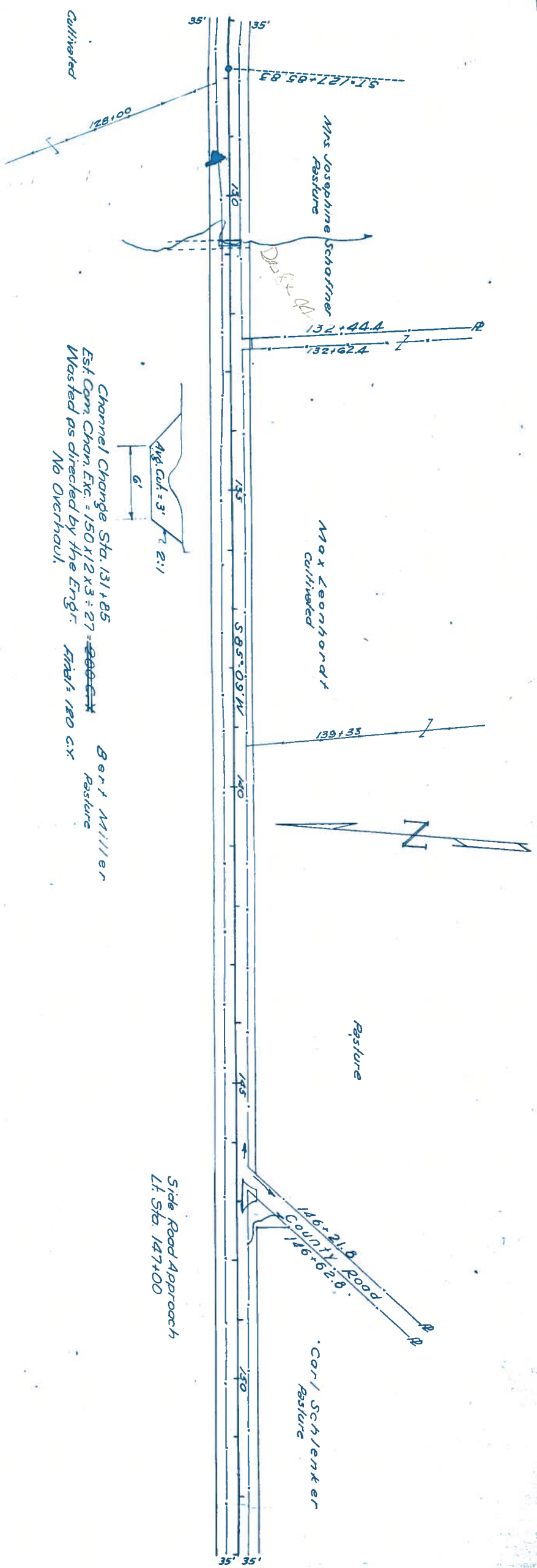
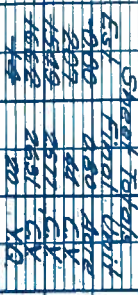
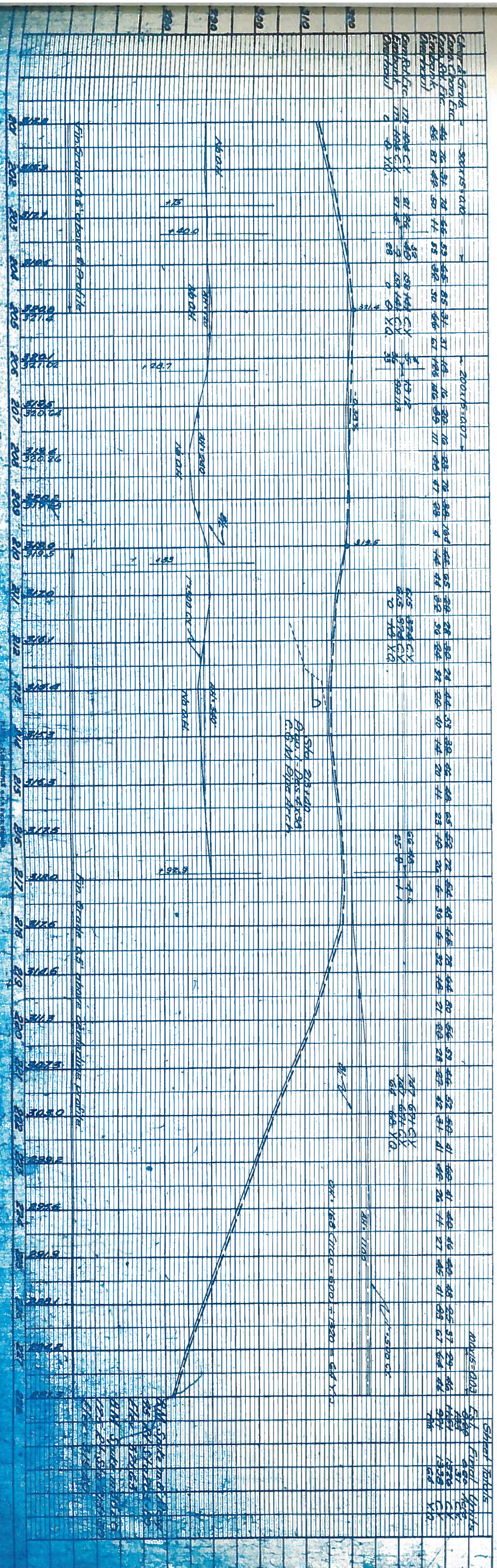
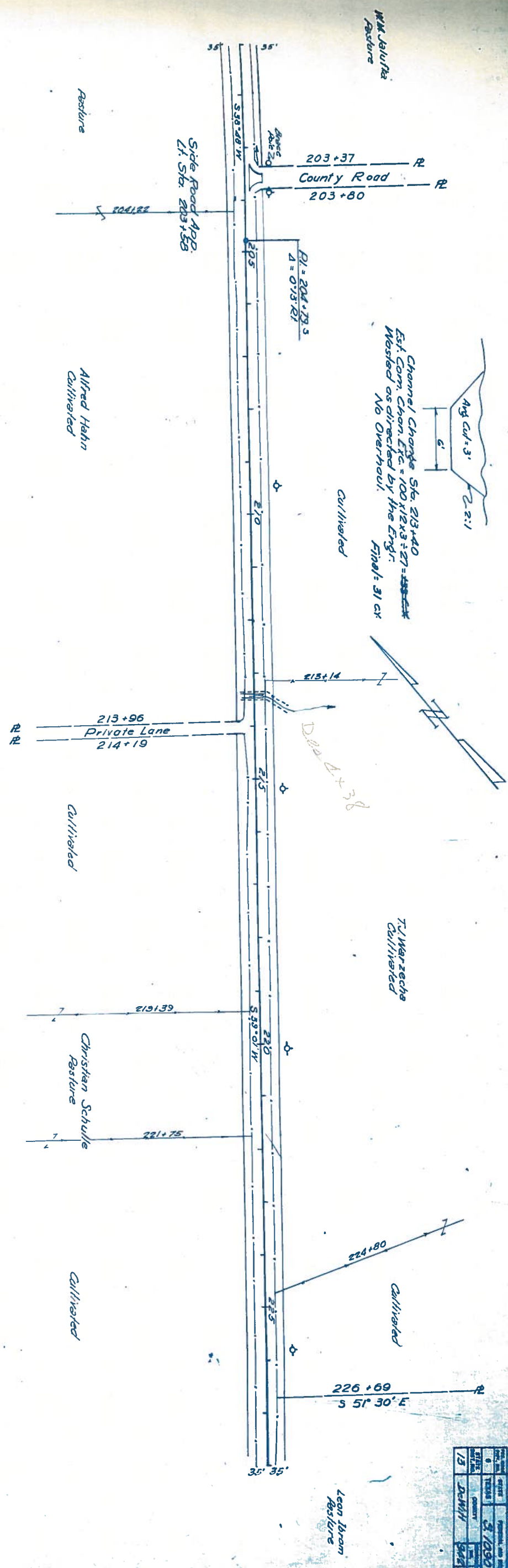


Diagram of a trapezoidal channel cross-section. The top width is 6 feet. The side slope is labeled "Avg. Cof. = 2" and "2:1".

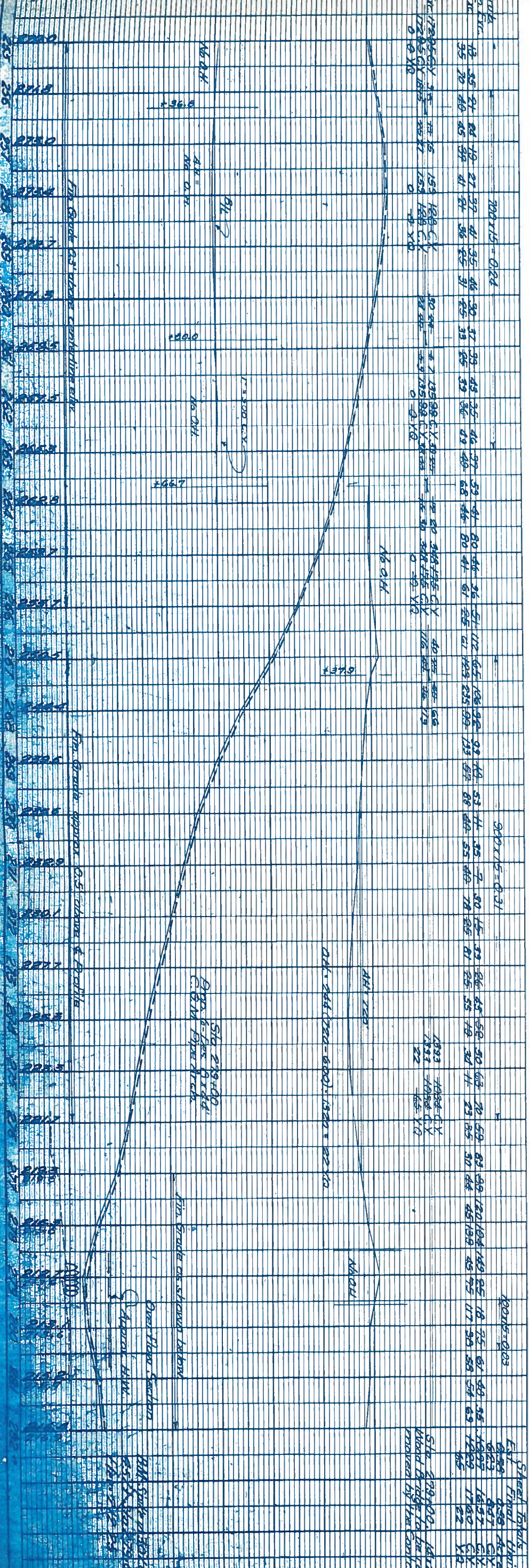
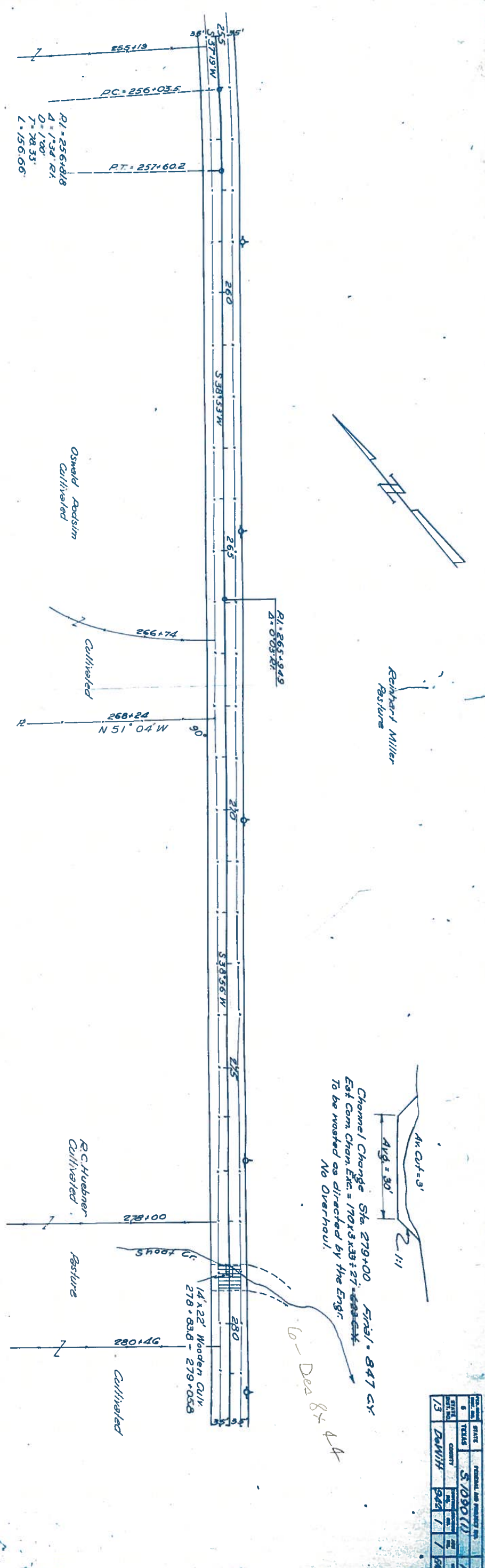
Carl Schlenker
Pasture



DATE	BY	REVISION	DATE	BY	REVISION
12/15/17	W.M. Schulz	1	12/15/17	W.M. Schulz	1
12/15/17	W.M. Schulz	2	12/15/17	W.M. Schulz	2
12/15/17	W.M. Schulz	3	12/15/17	W.M. Schulz	3
12/15/17	W.M. Schulz	4	12/15/17	W.M. Schulz	4
12/15/17	W.M. Schulz	5	12/15/17	W.M. Schulz	5
12/15/17	W.M. Schulz	6	12/15/17	W.M. Schulz	6
12/15/17	W.M. Schulz	7	12/15/17	W.M. Schulz	7
12/15/17	W.M. Schulz	8	12/15/17	W.M. Schulz	8
12/15/17	W.M. Schulz	9	12/15/17	W.M. Schulz	9
12/15/17	W.M. Schulz	10	12/15/17	W.M. Schulz	10

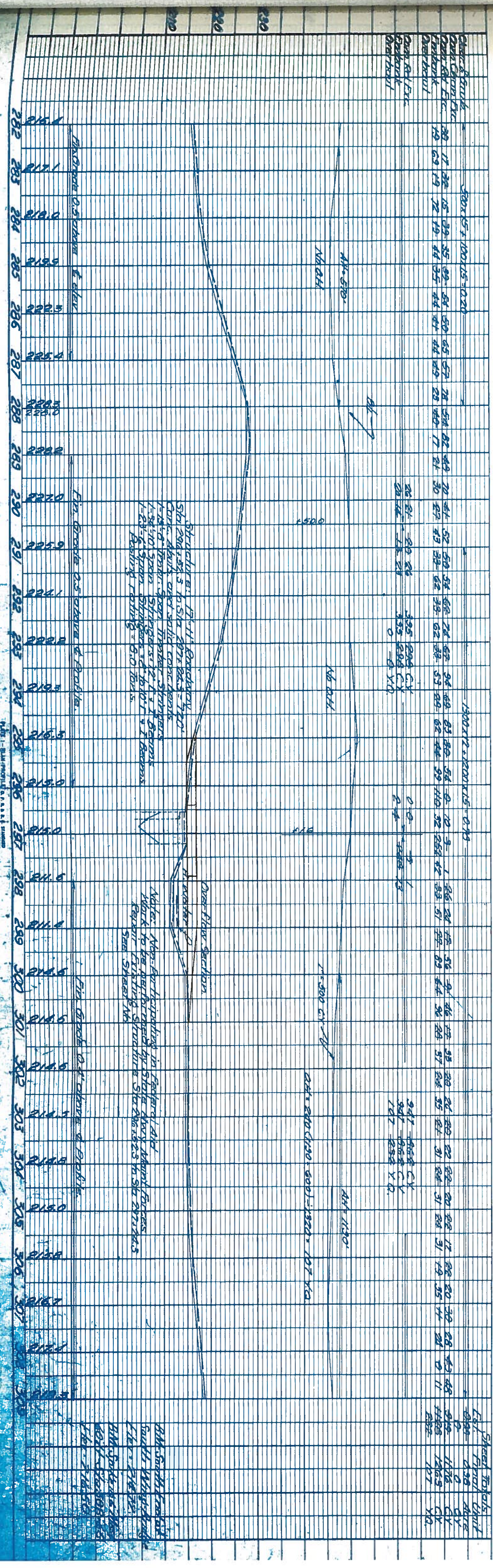
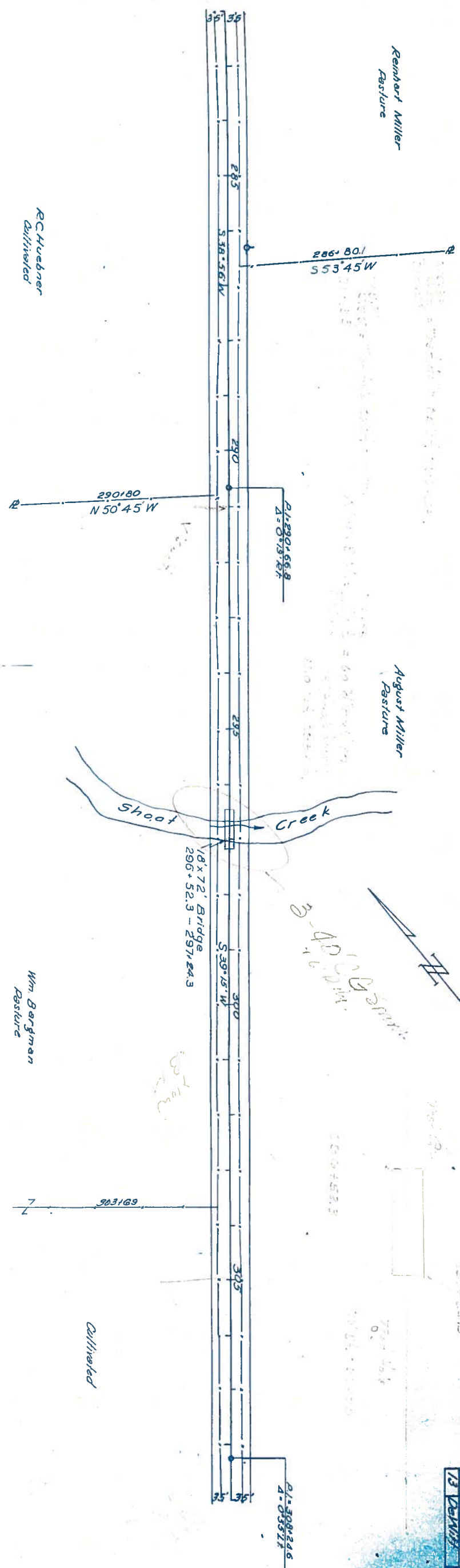


DATE	STATE	FEDERAL AID PROJECT NO.	SHEET NO.
1/3	TEXAS	S.1090(1)	13
1/3	DAWIT	944 1	1

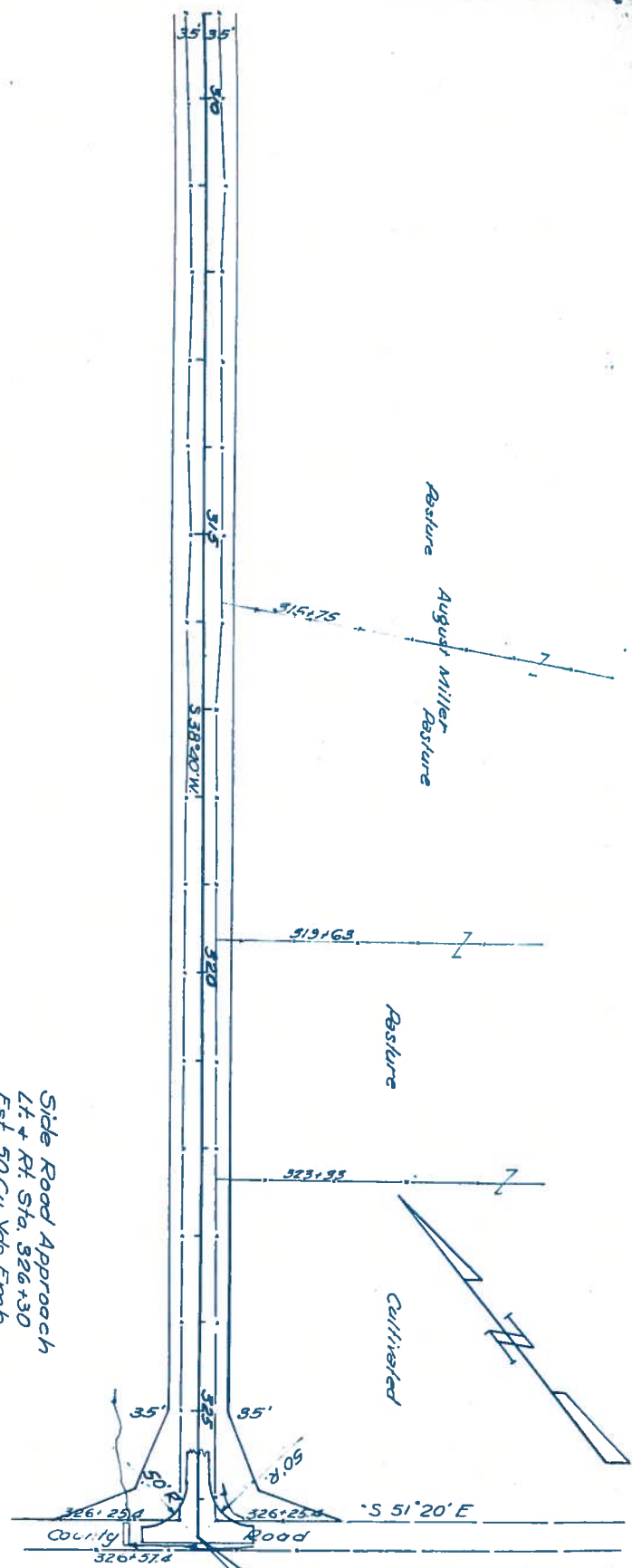


Station	Elevation	Notes
255+19	65.0	PC=256+03.5
256+03.5	65.0	PT=257+60.2
257+60.2	65.0	PI=256+81.8
258+00	65.0	D=170.35'
259+00	65.0	L=156.66'
260+00	65.0	
261+00	65.0	
262+00	65.0	
263+00	65.0	
264+00	65.0	
265+00	65.0	
266+00	65.0	
267+00	65.0	
268+00	65.0	
269+00	65.0	
270+00	65.0	
271+00	65.0	
272+00	65.0	
273+00	65.0	
274+00	65.0	
275+00	65.0	
276+00	65.0	
277+00	65.0	
278+00	65.0	
279+00	65.0	
280+00	65.0	
281+00	65.0	
282+00	65.0	
283+00	65.0	
284+00	65.0	
285+00	65.0	
286+00	65.0	
287+00	65.0	
288+00	65.0	
289+00	65.0	
290+00	65.0	
291+00	65.0	
292+00	65.0	
293+00	65.0	
294+00	65.0	
295+00	65.0	
296+00	65.0	
297+00	65.0	
298+00	65.0	
299+00	65.0	
300+00	65.0	

Sheet	Project	Scale	Date	Drawn by	Checked by	Approved by
13	DEMOK	1" = 100'	1/1/50			



Sheet No.	Scale	Project No.	Revision
13	1" = 40'	5.1090 (1)	1
DATE	BY	CHECKED	APPROVED
10/1/78	D.W.H.	W.M.B.	



Wm Bergman
Calibrated

Chap. 8, 10, 11, 12	14.50	15.00	15.50	16.00	16.50	17.00	17.50	18.00	18.50	19.00	19.50	20.00	20.50	21.00	21.50	22.00	22.50	23.00	23.50	24.00	24.50	25.00	25.50	26.00	26.50	27.00	27.50	28.00	28.50	29.00	29.50	30.00	30.50	31.00	31.50	32.00	32.50	33.00	33.50	34.00	34.50	35.00	35.50	36.00	36.50	37.00	37.50	38.00	38.50	39.00	39.50	40.00
Chap. 13, 14, 15	14.50	15.00	15.50	16.00	16.50	17.00	17.50	18.00	18.50	19.00	19.50	20.00	20.50	21.00	21.50	22.00	22.50	23.00	23.50	24.00	24.50	25.00	25.50	26.00	26.50	27.00	27.50	28.00	28.50	29.00	29.50	30.00	30.50	31.00	31.50	32.00	32.50	33.00	33.50	34.00	34.50	35.00	35.50	36.00	36.50	37.00	37.50	38.00	38.50	39.00	39.50	40.00
Chap. 16, 17, 18	14.50	15.00	15.50	16.00	16.50	17.00	17.50	18.00	18.50	19.00	19.50	20.00	20.50	21.00	21.50	22.00	22.50	23.00	23.50	24.00	24.50	25.00	25.50	26.00	26.50	27.00	27.50	28.00	28.50	29.00	29.50	30.00	30.50	31.00	31.50	32.00	32.50	33.00	33.50	34.00	34.50	35.00	35.50	36.00	36.50	37.00	37.50	38.00	38.50	39.00	39.50	40.00
Chap. 19, 20, 21	14.50	15.00	15.50	16.00	16.50	17.00	17.50	18.00	18.50	19.00	19.50	20.00	20.50	21.00	21.50	22.00	22.50	23.00	23.50	24.00	24.50	25.00	25.50	26.00	26.50	27.00	27.50	28.00	28.50	29.00	29.50	30.00	30.50	31.00	31.50	32.00	32.50	33.00	33.50	34.00	34.50	35.00	35.50	36.00	36.50	37.00	37.50	38.00	38.50	39.00	39.50	40.00
Chap. 22, 23, 24	14.50	15.00	15.50	16.00	16.50	17.00	17.50	18.00	18.50	19.00	19.50	20.00	20.50	21.00	21.50	22.00	22.50	23.00	23.50	24.00	24.50	25.00	25.50	26.00	26.50	27.00	27.50	28.00	28.50	29.00	29.50	30.00	30.50	31.00	31.50	32.00	32.50	33.00	33.50	34.00	34.50	35.00	35.50	36.00	36.50	37.00	37.50	38.00	38.50	39.00	39.50	40.00
Chap. 25, 26, 27	14.50	15.00	15.50	16.00	16.50	17.00	17.50	18.00	18.50	19.00	19.50	20.00	20.50	21.00	21.50	22.00	22.50	23.00	23.50	24.00	24.50	25.00	25.50	26.00	26.50	27.00	27.50	28.00	28.50	29.00	29.50	30.00	30.50	31.00	31.50	32.00	32.50	33.00	33.50	34.00	34.50	35.00	35.50	36.00	36.50	37.00	37.50	38.00	38.50	39.00	39.50	40.00
Chap. 28, 29, 30	14.50	15.00	15.50	16.00	16.50	17.00	17.50	18.00	18.50	19.00	19.50	20.00	20.50	21.00	21.50	22.00	22.50	23.00	23.50	24.00	24.50	25.00	25.50	26.00	26.50	27.00	27.50	28.00	28.50	29.00	29.50	30.00	30.50	31.00	31.50	32.00	32.50	33.00	33.50	34.00	34.50	35.00	35.50	36.00	36.50	37.00	37.50	38.00	38.50	39.00	39.50	40.00
Chap. 31, 32, 33	14.50	15.00	15.50	16.00	16.50	17.00	17.50	18.00	18.50	19.00	19.50	20.00	20.50	21.00	21.50	22.00	22.50	23.00	23.50	24.00	24.50	25.00	25.50	26.00	26.50	27.00	27.50	28.00	28.50	29.00	29.50	30.00	30.50	31.00	31.50	32.00	32.50	33.00	33.50	34.00	34.50	35.00	35.50	36.00	36.50	37.00	37.50	38.00	38.50	39.00	39.50	40.00
Chap. 34, 35, 36	14.50	15.00	15.50	16.00	16.50	17.00	17.50	18.00	18.50	19.00	19.50	20.00	20.50	21.00	21.50	22.00	22.50	23.00	23.50	24.00	24.50	25.00	25.50	26.00	26.50	27.00	27.50	28.00	28.50	29.00	29.50	30.00	30.50	31.00	31.50	32.00	32.50	33.00	33.50	34.00	34.50	35.00	35.50	36.00	36.50	37.00	37.50	38.00	38.50	39.00	39.50	40.00
Chap. 37, 38, 39	14.50	15.00	15.50	16.00	16.50	17.00	17.50	18.00	18.50	19.00	19.50	20.00	20.50	21.00	21.50	22.00	22.50	23.00	23.50	24.00	24.50	25.00	25.50	26.00	26.50	27.00	27.50	28.00	28.50	29.00	29.50	30.00	30.50	31.00	31.50	32.00	32.50	33.00	33.50	34.00	34.50	35.00	35.50	36.00	36.50	37.00	37.50	38.00	38.50	39.00	39.50	40.00
Chap. 40, 41, 42	14.50	15.00	15.50	16.00	16.50	17.00	17.50	18.00	18.50	19.00	19.50	20.00	20.50	21.00	21.50	22.00	22.50	23.00	23.50	24.00	24.50	25.00	25.50	26.00	26.50	27.00	27.50	28.00	28.50	29.00	29.50	30.00	30.50	31.00	31.50	32.00	32.50	33.00	33.50	34.00	34.50	35.00	35.50	36.00	36.50	37.00	37.50	38.00	38.50	39.00	39.50	40.00
Chap. 43, 44, 45	14.50	15.00	15.50	16.00	16.50	17.00	17.50	18.00	18.50	19.00	19.50	20.00	20.50	21.00	21.50	22.00	22.50	23.00	23.50	24.00	24.50	25.00	25.50	26.00	26.50	27.00	27.50	28.00	28.50	29.00	29.50	30.00	30.50	31.00	31.50	32.00	32.50	33.00	33.50	34.00	34.50	35.00	35.50	36.00	36.50	37.00	37.50	38.00	38.50	39.00	39.50	40.00
Chap. 46, 47, 48	14.50	15.00	15.50	16.00	16.50	17.00	17.50	18.00	18.50	19.00	19.50	20.00	20.50	21.00	21.50	22.00	22.50	23.00	23.50	24.00	24.50	25.00	25.50	26.00	26.50	27.00	27.50	28.00	28.50	29.00	29.50	30.00	30.50	31.00	31.50	32.00	32.50	33.00	33.50	34.00	34.50	35.00	35.50	36.00	36.50	37.00	37.50	38.00	38.50	39.00	39.50	40.00
Chap. 49, 50, 51	14.50	15.00	15.50	16.00	16.50	17.00	17.50	18.00	18.50	19.00	19.50	20.00	20.50	21.00	21.50	22.00	22.50	23.00	23.50	24.00	24.50	25.00	25.50	26.00	26.50	27.00	27.50	28.00	28.50	29.00	29.50	30.00	30.50	31.00	31.50	32.00	32.50	33.00	33.50	34.00	34.50	35.00	35.50	36.00	36.50	37.00	37.50	38.00	38.50	39.00	39.50	40.00
Chap. 52, 53, 54	14.50	15.00	15.50	16.00	16.50	17.00	17.50	18.00	18.50	19.00	19.50	20.00	20.50	21.00	21.50	22.00	22.50	23.00	23.50	24.00	24.50	25.00	25.50	26.00	26.50	27.00	27.50	28.00	28.50	29.00	29.50	30.00	30.50	31.00	31.50	32.00	32.50	33.00	33.50	34.00	34.50	35.00	35.50	36.00	36.50	37.00	37.50	38.00	38.50	39.00	39.50	40.00
Chap. 55, 56, 57	14.50	15.00	15.50	16.00	16.50	17.00	17.50	18.00	18.50	19.00	19.50	20.00	20.50	21.00	21.50	22.00	22.50	23.00	23.50	24.00	24.50	25.00	25.50	26.00	26.50	27.00	27.50	28.00	28.50	29.00	29.50	30.00	30.50	31.00	31.50	32.00	32.50	33.00	33.50	34.00	34.50	35.00	35.50	36.00	36.50	37.00	37.50	38.00	38.50	39.00	39.50	40.00
Chap. 58, 59, 60	14.50	15.00	15.50	16.00	16.50	17.00	17.50	18.00	18.50	19.00	19.50	20.00	20.50	21.00	21.50	22.00	22.50	23.00	23.50	24.00	24.50	25.00	25.50	26.00	26.50	27.00	27.50	28.00	28.50	29.00	29.50	30.00	30.50	31.00	31.50	32.00	32.50	33.00	33.50	34.00	34.50	35.00	35.50	36.00	36.50	37.00	37.50	38.00	38.50	39.00	39.50	40.00
Chap. 61, 62, 63	14.50	15.00	15.50	16.00	16.50	17.00	17.50	18.00	18.50	19.00	19.50	20.00	20.50	21.00	21.50	22.00	22.50	23.00	23.50	24.00	24.50	25.00	25.50	26.00	26.50	27.00	27.50	28.00	28.50	29.00	29.50	30.00	30.50	31.00	31.50	32.00	32.50	33.00	33.50	34.00	34.50	35.00	35.50	36.00	36.50	37.00	37.50	38.00	38.50	39.00	39.50	40.00
Chap. 64, 65, 66	14.50	15.00	15.50	16.00	16.50	17.00	17.50	18.00	18.50	19.00	19.50	20.00	20.50	21.00	21.50	22.00	22.50	23.00	23.50	24.00	24.50	25.00	25.50	26.00	26.50	27.00	27.50	28.00	28.50	29.00	29.50	30.00	30.50	31.00	31.50	32.00	32.50	33.00	33.50	34.00	34.50	35.00	35.50	36.00	36.50	37.00	37.50	38.00	38.50	39.00	39.50	40.00
Chap. 67, 68, 69	14.50	15.00	15.50	16.00	16.50	17.00	17.50	18.00	18.50	19.00	19.50	20.00	20.50	21.00	21.50	22.00	22.50	23.00	23.50	24.00	24.50	25.00	25.50	26.00	26.50	27.00	27.50	28.00	28.50	29.00	29.50	30.00	30.50	31.00	31.50	32.00	32.50	33.00	33.50	34.00	34.50	35.00	35.50	36.00	36.50	37.00	37.50	38.00	38.50	39.00	39.50	40.00
Chap. 70, 71, 72	14.50	15.00	15.50	16.00	16.50	17.00	17.50	18.00	18.50	19.00	19.50	20.00	20.50	21.00	21.50	22.00	22.50	23.00	23.50	24.00	24.50	25.00	25.50	26.00	26.50	27.00	27.50	28.00	28.50	29.00	29.50	30.00	30.50	31.00	31.50	32.00	32.50	33.00	33.50	34.00	34.50	35.00	35.50	36.00	36.50	37.00	37.50	38.00	38.50	39.00	39.50	40.00
Chap. 73, 74, 75	14.50	15.00	15.50	16.00	16.50	17.00	17.50	18.00	18.50	19.00	19.50	20.00	20.50	21.00	21.50	22.00	22.50	23.00	23.50	24.00	24.50	25.00	25.50	26.00	26.50	27.00	27.50	28.00	28.50	29.00	29.50	30.00	30.50	31.00	31.50	32.00	32.50	33.00	33.50	34.00	34.50	35.00	35.50	36.00	36.50	37.00	37.50	38.00	38.50	39.00	39.50	40.00
Chap. 76, 77, 78	14.50	15.00	15.50	16.00	16.50	17.00	17.50	18.00	18.50	19.00	19.50	20.00	20.50	21.00	21.50	22.00	22.50	23.00	23.50	24.00	24.50	25.00	25.50	26.00	26.50	27.00	27.50	28.00	28.50	29.00	29.50	30.00	30.50	31.00	31.50	32.00	32.50	33.00	33.50	34.00	34.50											

80' At Sta. 326+42
Gap 1' 24" x 24" C&M Pipe
Ramped from Sta 11+5.5

City of Oak Ridge, Tennessee

W.M. Bergman
10/1/78

HAUL DIAGRAM FOR ROADBED TREATMENT

NO.	DATE	DESCRIPTION	AMOUNT	UNIT
1	12/15/50	HAUL	17	CU YDS.
2	12/15/50	HAUL	17	CU YDS.
3	12/15/50	HAUL	17	CU YDS.
4	12/15/50	HAUL	17	CU YDS.
5	12/15/50	HAUL	17	CU YDS.
6	12/15/50	HAUL	17	CU YDS.
7	12/15/50	HAUL	17	CU YDS.
8	12/15/50	HAUL	17	CU YDS.
9	12/15/50	HAUL	17	CU YDS.
10	12/15/50	HAUL	17	CU YDS.
11	12/15/50	HAUL	17	CU YDS.
12	12/15/50	HAUL	17	CU YDS.
13	12/15/50	HAUL	17	CU YDS.
14	12/15/50	HAUL	17	CU YDS.
15	12/15/50	HAUL	17	CU YDS.
16	12/15/50	HAUL	17	CU YDS.
17	12/15/50	HAUL	17	CU YDS.
18	12/15/50	HAUL	17	CU YDS.
19	12/15/50	HAUL	17	CU YDS.
20	12/15/50	HAUL	17	CU YDS.
21	12/15/50	HAUL	17	CU YDS.
22	12/15/50	HAUL	17	CU YDS.
23	12/15/50	HAUL	17	CU YDS.
24	12/15/50	HAUL	17	CU YDS.
25	12/15/50	HAUL	17	CU YDS.
26	12/15/50	HAUL	17	CU YDS.
27	12/15/50	HAUL	17	CU YDS.
28	12/15/50	HAUL	17	CU YDS.
29	12/15/50	HAUL	17	CU YDS.
30	12/15/50	HAUL	17	CU YDS.
31	12/15/50	HAUL	17	CU YDS.
32	12/15/50	HAUL	17	CU YDS.
33	12/15/50	HAUL	17	CU YDS.
34	12/15/50	HAUL	17	CU YDS.
35	12/15/50	HAUL	17	CU YDS.
36	12/15/50	HAUL	17	CU YDS.
37	12/15/50	HAUL	17	CU YDS.
38	12/15/50	HAUL	17	CU YDS.
39	12/15/50	HAUL	17	CU YDS.
40	12/15/50	HAUL	17	CU YDS.
41	12/15/50	HAUL	17	CU YDS.
42	12/15/50	HAUL	17	CU YDS.
43	12/15/50	HAUL	17	CU YDS.
44	12/15/50	HAUL	17	CU YDS.
45	12/15/50	HAUL	17	CU YDS.
46	12/15/50	HAUL	17	CU YDS.
47	12/15/50	HAUL	17	CU YDS.
48	12/15/50	HAUL	17	CU YDS.
49	12/15/50	HAUL	17	CU YDS.
50	12/15/50	HAUL	17	CU YDS.
51	12/15/50	HAUL	17	CU YDS.
52	12/15/50	HAUL	17	CU YDS.
53	12/15/50	HAUL	17	CU YDS.
54	12/15/50	HAUL	17	CU YDS.
55	12/15/50	HAUL	17	CU YDS.
56	12/15/50	HAUL	17	CU YDS.
57	12/15/50	HAUL	17	CU YDS.
58	12/15/50	HAUL	17	CU YDS.
59	12/15/50	HAUL	17	CU YDS.
60	12/15/50	HAUL	17	CU YDS.
61	12/15/50	HAUL	17	CU YDS.
62	12/15/50	HAUL	17	CU YDS.
63	12/15/50	HAUL	17	CU YDS.
64	12/15/50	HAUL	17	CU YDS.
65	12/15/50	HAUL	17	CU YDS.
66	12/15/50	HAUL	17	CU YDS.
67	12/15/50	HAUL	17	CU YDS.
68	12/15/50	HAUL	17	CU YDS.
69	12/15/50	HAUL	17	CU YDS.
70	12/15/50	HAUL	17	CU YDS.
71	12/15/50	HAUL	17	CU YDS.
72	12/15/50	HAUL	17	CU YDS.
73	12/15/50	HAUL	17	CU YDS.
74	12/15/50	HAUL	17	CU YDS.
75	12/15/50	HAUL	17	CU YDS.
76	12/15/50	HAUL	17	CU YDS.
77	12/15/50	HAUL	17	CU YDS.
78	12/15/50	HAUL	17	CU YDS.
79	12/15/50	HAUL	17	CU YDS.
80	12/15/50	HAUL	17	CU YDS.
81	12/15/50	HAUL	17	CU YDS.
82	12/15/50	HAUL	17	CU YDS.
83	12/15/50	HAUL	17	CU YDS.
84	12/15/50	HAUL	17	CU YDS.
85	12/15/50	HAUL	17	CU YDS.
86	12/15/50	HAUL	17	CU YDS.
87	12/15/50	HAUL	17	CU YDS.
88	12/15/50	HAUL	17	CU YDS.
89	12/15/50	HAUL	17	CU YDS.
90	12/15/50	HAUL	17	CU YDS.
91	12/15/50	HAUL	17	CU YDS.
92	12/15/50	HAUL	17	CU YDS.
93	12/15/50	HAUL	17	CU YDS.
94	12/15/50	HAUL	17	CU YDS.
95	12/15/50	HAUL	17	CU YDS.
96	12/15/50	HAUL	17	CU YDS.
97	12/15/50	HAUL	17	CU YDS.
98	12/15/50	HAUL	17	CU YDS.
99	12/15/50	HAUL	17	CU YDS.
100	12/15/50	HAUL	17	CU YDS.

GENERAL NOTES:
 Present Excavated Pit shall be extended on the Northwest side.
 No Clearing & Grubbing on pit area.
 No Stripping anticipated, except grass, etc. shall be removed from pit area.
 Pit shall be worked from a vertical face approximately 14 feet in height and material shall be partially mixed before hauling to highway.

205+32	C.Y.	
13.20 x 60 = 792 x 5 = 3,960	C.Y.	
Priv. Ent. = 10 x 5 = 50		
Totals = 802	4,010	
218+52	C.Y.	
13.20 x 60 = 792 x 4 = 3,168	C.Y.	
Totals = 792	3,168	
231+72	C.Y.	
13.20 x 60 = 792 x 3 = 2,376	C.Y.	
Totals = 792 x 3 = 2,376		
244+92	C.Y.	
7.60 x 60 = 456 x 2 = 912	C.Y.	
7.60 x 60 = 456 x 2 = 912	C.Y.	
Ca. Rd. Int. = 40 x 2 = 80		
Priv. Ent. = 10 x 2 = 20		
Totals = 962	1,924	
260+12	C.Y.	
13.20 x 60 = 792 x 3 = 2,376	C.Y.	
Priv. Ent. = 10 x 3 = 30		
Totals = 802	2,406	
273+32	C.Y.	
13.20 x 60 = 792 x 4 = 3,168	C.Y.	
Totals = 792	3,168	
286+52	C.Y.	
12.48 x 60 = 749 x 5 = 3,745	C.Y.	
Priv. Ent. = 20 x 5 = 100		
Totals = 769	3,845	
299+72	C.Y.	
13.20 x 60 = 792 x 6 = 4,752	C.Y.	
Totals = 792	4,752	
312+92	C.Y.	
13.20 x 60 = 792 x 7 = 5,544	C.Y.	
Totals = 792	5,544	
326+12	C.Y.	
0.30 x 60 = 18 x 8 = 144	C.Y.	
Ca. Rd. Int. = 140 x 8 = 1,120		
Totals = 158	1,264	
326+42	C.Y.	

Mrs. Henry Burmeister - P/I
 Lot No. 48 - C13E

Bridge Exception 296+52.3-297+24.3

Municipal	
Road Treatment	
1,335 Ca. Yds.	
1,952 Ca. Yds.	
20,862 Ca. Yds.	
Add'l. 1/4 Mi. Haul	
22,880 Ca. Yds.	
156,554 Ca. Yds.	
179,434 Ca. Yds.	

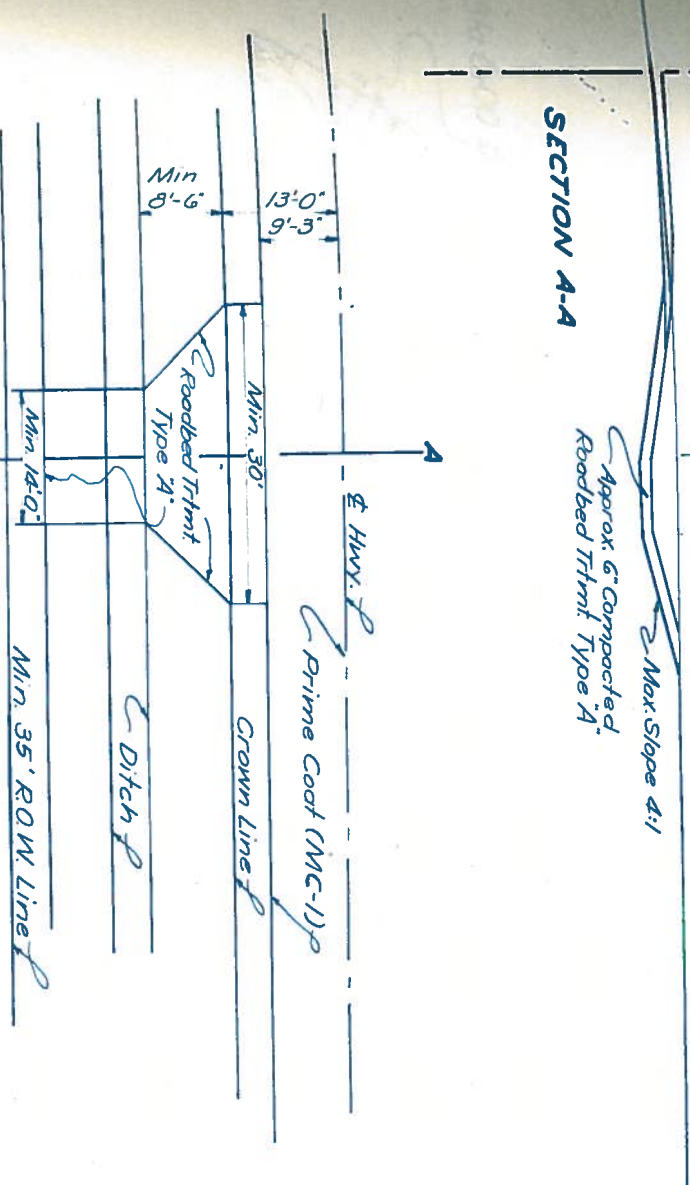
0+00	C.Y.	
City St. = 160 x 18 = 2,880	C.Y.	
St. Int. = 25 x 18 = 450		
Totals = 185	3,330	
1+80	C.Y.	
City St. = 1160 x 17 = 19,720	C.Y.	
St. Int. = 210 x 17 = 3,570		
Totals = 1370	23,290	
15+00	C.Y.	
13.20 x 60 = 792 x 16 = 12,672	C.Y.	
Ca. Rd. Int. = 75 x 16 = 1,200		
Totals = 867	13,870	
28+20	C.Y.	
13.20 x 60 = 792 x 15 = 11,880	C.Y.	
Priv. Ent. = 30 x 15 = 450		
Totals = 822	12,330	
41+40	C.Y.	
13.20 x 60 = 792 x 14 = 11,088	C.Y.	
Totals = 792	11,088	
54+60	C.Y.	
13.20 x 60 = 792 x 13 = 10,296	C.Y.	
Priv. Ent. = 10 x 13 = 130		
Ca. Rd. Int. = 26 x 13 = 338		
Totals = 827	10,751	
67+80	C.Y.	
13.20 x 60 = 792 x 12 = 9,504	C.Y.	
Priv. Ent. = 20 x 12 = 240		
Totals = 812	9,744	
81+00	C.Y.	
13.20 x 60 = 792 x 11 = 8,712	C.Y.	
Totals = 792	8,712	
94+20	C.Y.	
13.20 x 60 = 792 x 10 = 7,920	C.Y.	
Totals = 792	7,920	
107+40	C.Y.	
13.20 x 60 = 792 x 9 = 7,128	C.Y.	
Priv. Ent. = 10 x 9 = 90		
Ca. Rd. Int. = 60 x 9 = 540		
Totals = 862	7,758	
120+60	C.Y.	
13.20 x 60 = 792 x 8 = 6,336	C.Y.	
Priv. Ent. = 30 x 8 = 240		
Totals = 822	6,576	
133+80	C.Y.	
13.20 x 60 = 792 x 7 = 5,544	C.Y.	
13.20 x 60 = 792 x 7 = 5,544	C.Y.	
Ca. Rd. Int. = 25 x 7 = 175		
Totals = 1609	11,263	
160+20	C.Y.	
5.938 x 60 = 356 x 8 = 2,848	C.Y.	
Totals = 356	2,848	
166+13.8	C.Y.	
13.20 x 60 = 792 x 8 = 6,336	C.Y.	
Ca. Rd. Int. = 25 x 8 = 200		
Priv. Ent. = 20 x 8 = 160		
Totals = 837	6,696	
179+33.8	C.Y.	
13.20 x 60 = 792 x 7 = 5,544	C.Y.	
Ca. Rd. Int. = 25 x 7 = 175		
Totals = 817	5,719	
192+12	C.Y.	
13.20 x 60 = 792 x 6 = 4,752	C.Y.	
Ca. Rd. Int. = 25 x 6 = 150		
Priv. Ent. = 30 x 6 = 180		
Totals = 847	5,082	
205+32	C.Y.	

Mrs. Henry Burmeister - P/I
 Lot No. 48 - C13E

NOTE: Sta. 0+00 to 134+00
 Variable amount of Roadbed Tfm. per Station
 due to rising City Street to grade. See
 Typical Sections.

EQ - 185+41.8 - 185+100 = 141.8'

2 Max Slope 4:1
Approx. 6" Compacted.
Roadbed Trmt. Type A



HALF PLAN

Scale 1"=10'

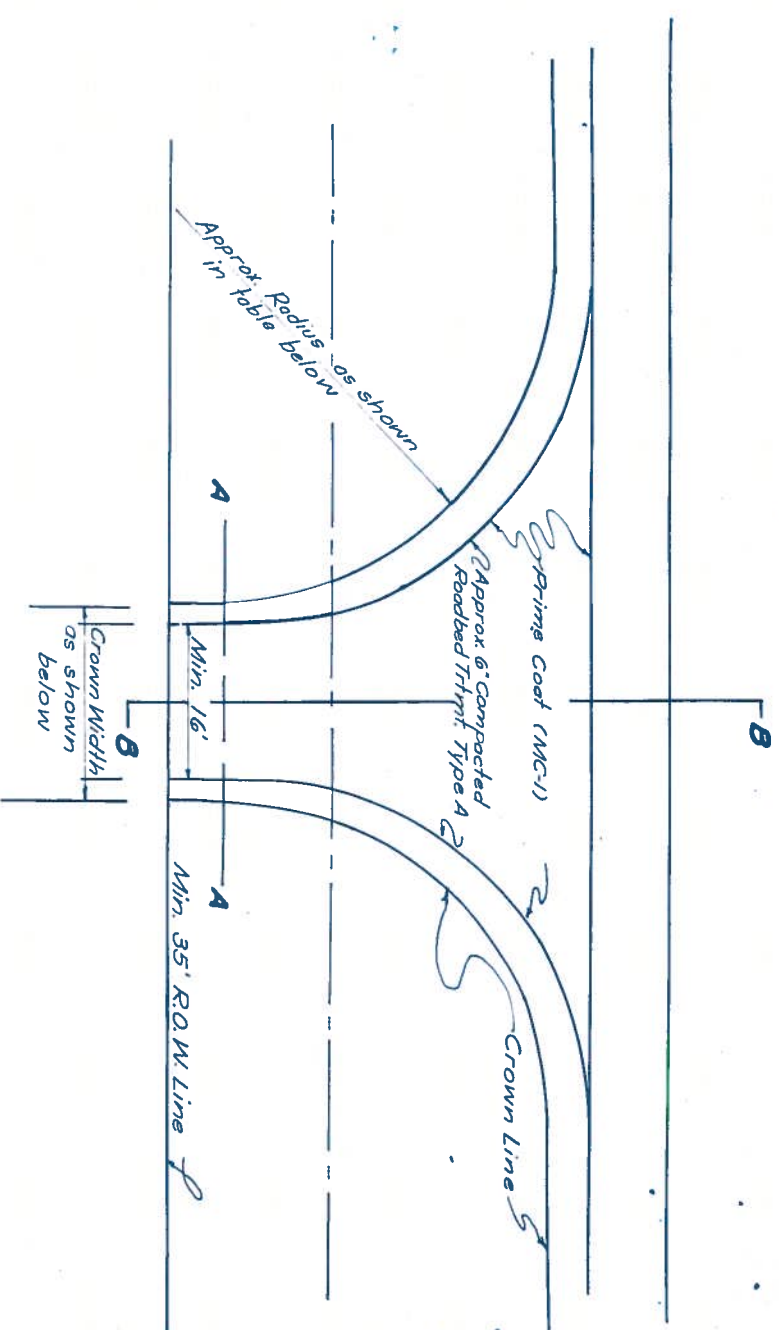
APPROXIMATE LOCATION

[illegible]

Estimated 10 Cu Yds Roadbed Treatment
Type "A" per Entrance.

Note: Excavation required to construct Private Entrances shall be considered as subsidiary work to the various Contract Items.

PRIVATE ENTRANCE

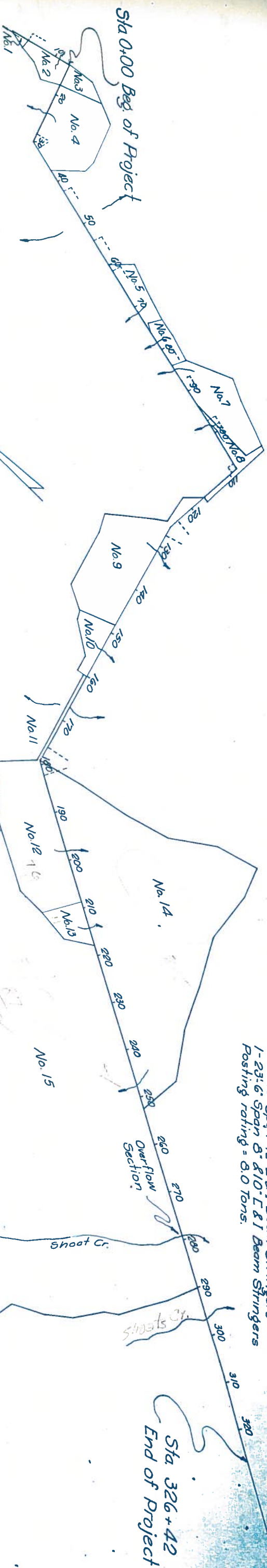


To be used at approx. the following Stations:

Asphalt 04/175 Gals.	Approximate Cyl	Location	Reodbed Treatment Type &	Prime Coat M/C-1 Gals.	Approx. Radius	Approx. Crown Width
20	1	Sta 0+05 Hwy Int	25	20	23'	-
20	1	Lt Sta 3+60	25	20	23'	24'
20	1	Rt Sta 3+60	25	20	23'	24'
20	1	Lt Sta 7+45	25	20	23'	24'
20	1	Rt Sta 7+45	25	20	23'	24'
20	1	Lt Sta 11+25	25	20	23'	24'
20	1	Rt Sta 11+25	25	20	23'	24'
50	2	Lt Sta 13+22	60	50	23	24'
20	1	Lt Sta 16+30	25	20	23'	24'
20	1	Rt Sta 16+30	25	20	23'	24'
20	1	Rt Sta 23+80	25	20	23'	24'
20	1	Rt Sta 56+56	25	20	23'	24'
50	2	Lt Sta 108+25	60	50	23	24'
20	1	Lt Sta 121+00	25	20	23	24'
20	1	Rt Sta 121+00	25	20	23	24'
20	1	Rt Sta 164+95	25	20	23'	24'
20	1	Lt Sta 203+58	25	20	23'	24'
20	1	Rt Sta 246+16	20	20	23'	24'
20	1	Lt Sta 252+73	20	20	23'	24'
60	2	Lt Sta 326+30	70	60	50	24'
60	2	Rt Sta 326+30	70	60	50	24'
560	25	Totals	675	560		

STREET & COUNTY ROAD

PTA. NO.	STATE	FEDERAL AID PROJECT NO.	SURVEY NO.
6	TEXAS	5. 1090(11)	18
STATION NO.	COUNTY	SECTION	SECTION
13	DeWitt	942	1 1 FM 23



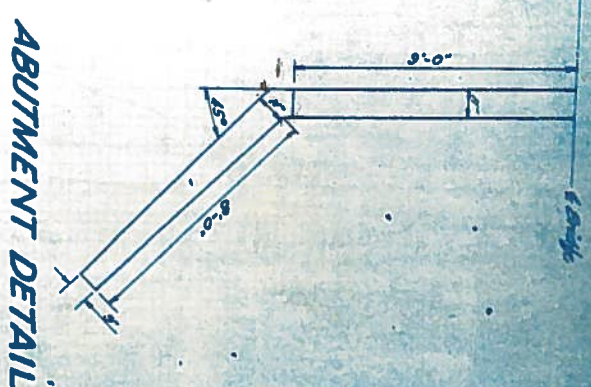
Sta 236+52.3 to Sta 297+24.3
 1-13'-8" Timber Span Timber Stringers
 1-34'-10" Spqn 12" L & I Beam Stringers
 1-23'-6" Spqn 8" & 10" L & I Beam Stringers
 Posting rating = 8.0 tons.

Station	D.A. No.	Acres	L	f	i ₂	C	Q ₂	V	EH	Dec	H ₁	Gr	Description
At - 0+22	1	0.92	350										1-24" C.G.M. Pipe (in Place)
11+05	2	10	800	6.67	5.6	0.25	140	5.6	1.32	0.95	18	1.3	1-Des. #4 C.G.M. Pipe Arch
17-13+21	3	642	1000										1-24" C.G.M. Pipe (in Place)
23+05	4	42	1400	11.67	4.8	0.25	504	7.7	2.35	1.53	33	1.1	1-Des. #7 C.G.M. Pipe Arch
71+15	5	12	1000	8.33	4.7	0.25	141	5.6	1.34	0.95	18	1.3	1-Des. #4 C.G.M. Pipe Arch
78+60	6	7	700	5.03	5.7	0.25	100	5.0	1.1	0.77	15	1.2	1-Des. #4 C.G.M. Pipe Arch
85+08	7	33	2350	19.58	4.1	0.25	338	6.7	2.0	1.34	28	1.2	1-Des. #4 C.G.M. Pipe Arch
97+95	8	9	1900	15.8	4.4	0.25	99	5.0	1.10	0.77	15	1.4	1-Des. #4 C.G.M. Pipe Arch
131+85	9	622	1950	16.25	4.5	0.25	698	7.6	2.75	1.90	38	1.1	1-Des. #4 C.G.M. Pipe Arch
154+15	10	12	900	7.5	5.3	0.25	159	5.9	1.44	1.02	20	1.4	1-Des. #4 C.G.M. Pipe Arch
167+00	11	30	1200	10.0	5.1	0.25	38	3.6	0.72	0.51	10	1.2	1-Des. #3 C.G.M. Pipe Arch
196+35	12	76	2350	19.6	4.2	0.25	79.8	7.2	2.25	1.48	31	1.3	2-Des. #6 C.G.M. Pipe Arch
213+40	13	11	1000	8.3	5.3	0.25	145	5.6	1.36	0.97	19	1.3	1-Des. #4 C.G.M. Pipe Arch
247+23	14	385	8000	617	20	0.25	193	71	2.3	1.48	32	1.05	4-Des. #7 C.G.M. Pipe Arch
279+00	15	2654											6-Des. #8 C.G.M. Pipe Arch
Overflow Section													

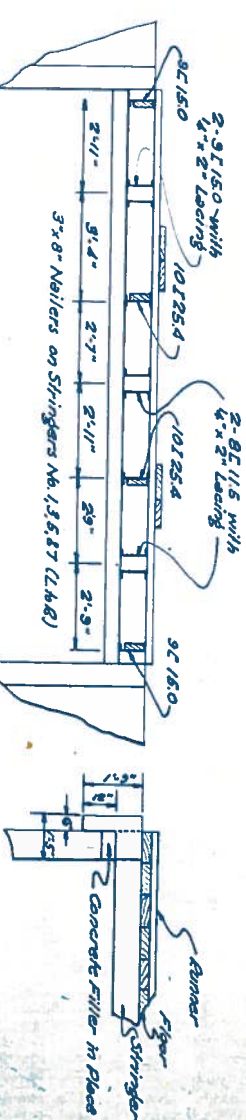
DRAINAGE AREAS

SCALE: 1" = 1000'

STATE	FEDERAL AID PROJECT NO.	DATE
TEXAS	S-1030 (1)	1/8
COUNTY	DAWSON	1/8
SECTION	945	1
DATE	1/8	1/8

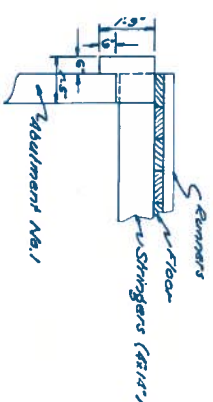


ABUTMENT DETAIL



SECTION C-C IN PLACE

PROPOSED CONCRETE
FILLER AT ABUTMENT NO. 2.



DETAIL
PROPOSED CONCRETE
FILLER AT ABUTMENT NO. 1.

BILL OF MATERIAL			
DESCRIPTION NO.	SIZE	M.B.F.	
Treated Timber (Saturated).			
Floor	24	3" x 12" x 18'	1.296
Rumors	36	4" x 14" x 12"	2.017
Total			3.313
Treated Timber (New)			
Stringers	12	4" x 14" x 14'	0.784
Rolling	6	2" x 6" x 14'	0.084
Rolling	12	2" x 6" x 12'	0.144
Rail Posts	6	4" x 6" x 14'	0.168
Post Blocks	1	4" x 6" x 12'	0.024
Post Blocks	2	6" x 6" x 17'	0.102
Total			1.306

Flooring of satisfactory quality shall remain in place. All undesirable flooring shall be replaced with salvaged material. Approximately one third replacement used for estimating purposes.

Rumers shall be replaced with new material, three widths of 4"x16" treated timber.

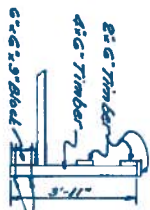
Steel railing and posts in place shall be strengthened and put back with addition of new blocks at the bottom. Railing on the ends and spans shall be replaced with treated timber (New) long-itudinal members shall be nailed to the posts. The posts shall be secured at the bottom by bolts, with spacing blocks as shown in details.

Wooden stringers shall be replaced with 4"x14" treated timber (New) ends of these stringers resting on Pier No. 1 shall be adapted to fit.

Nailers on spans No. 2 & No. 3 shall remain in place and secured more effectively, if necessary. Any unsound pieces shall be replaced.

Abutment No. 1 shall have a concrete riser. Both abutments shall have concrete fillers.

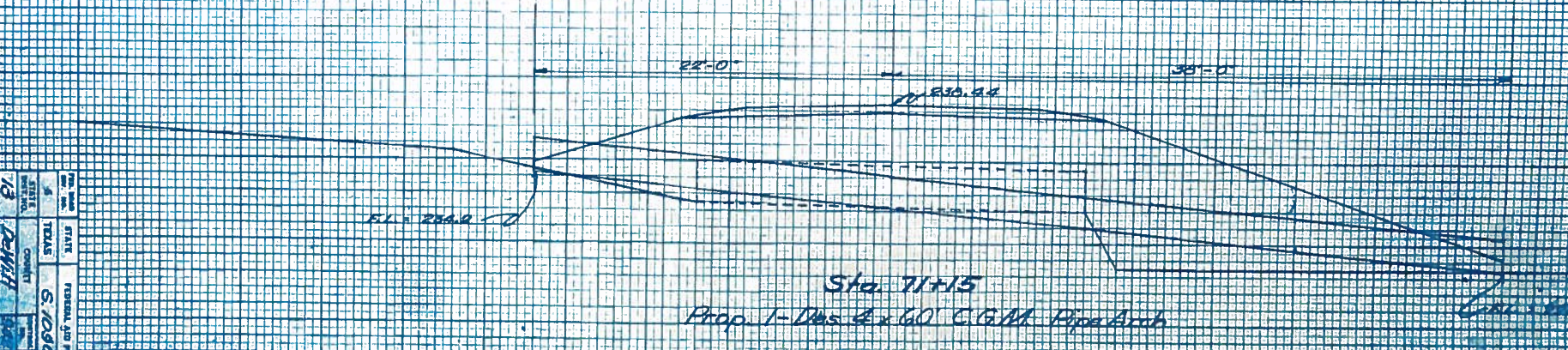
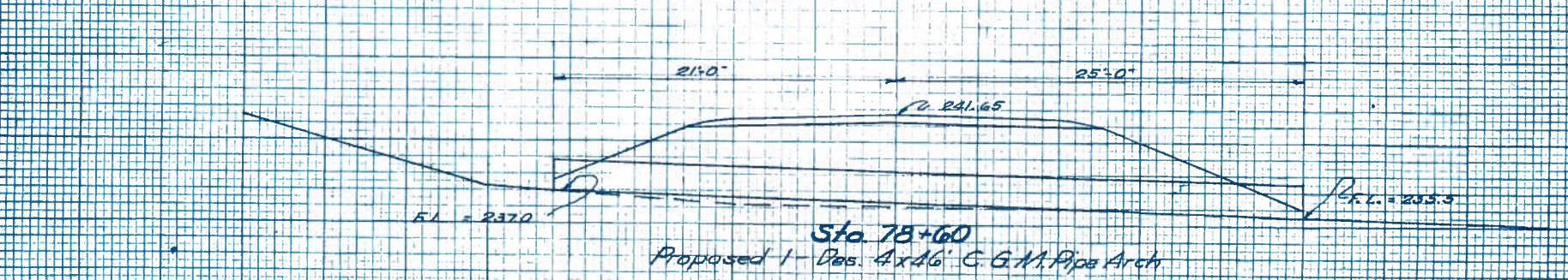
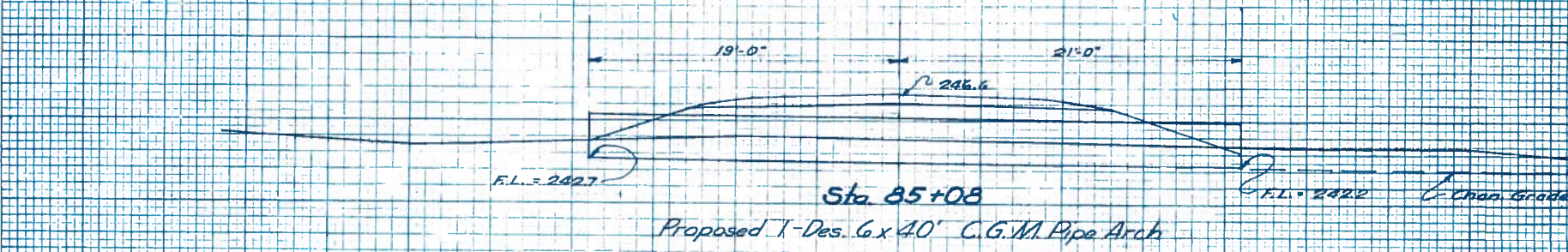
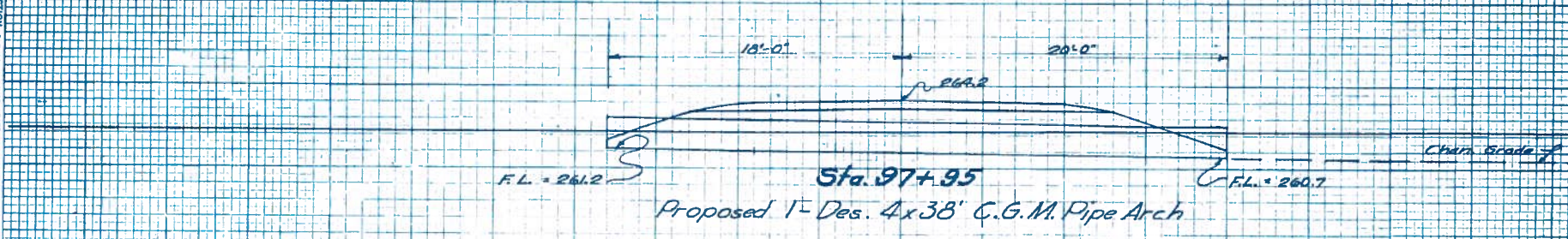
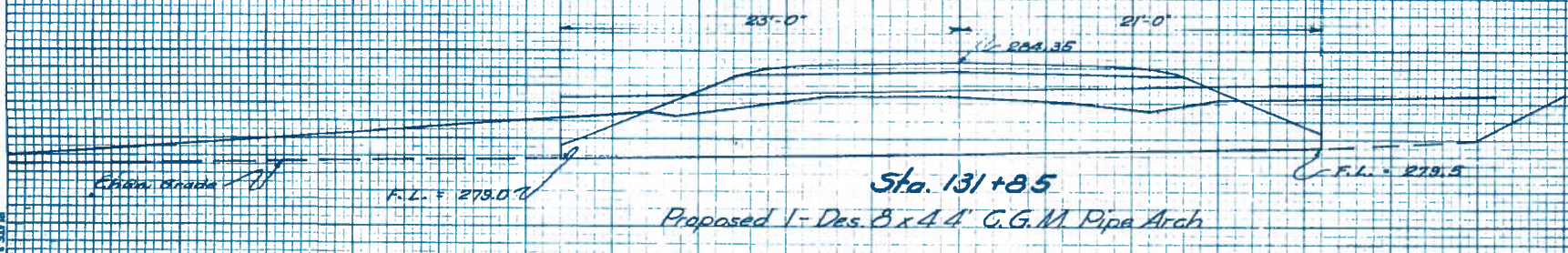
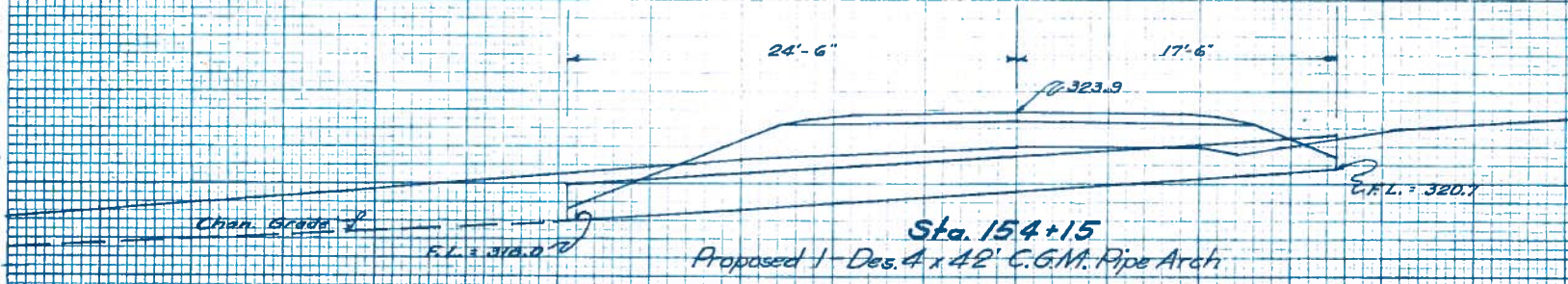
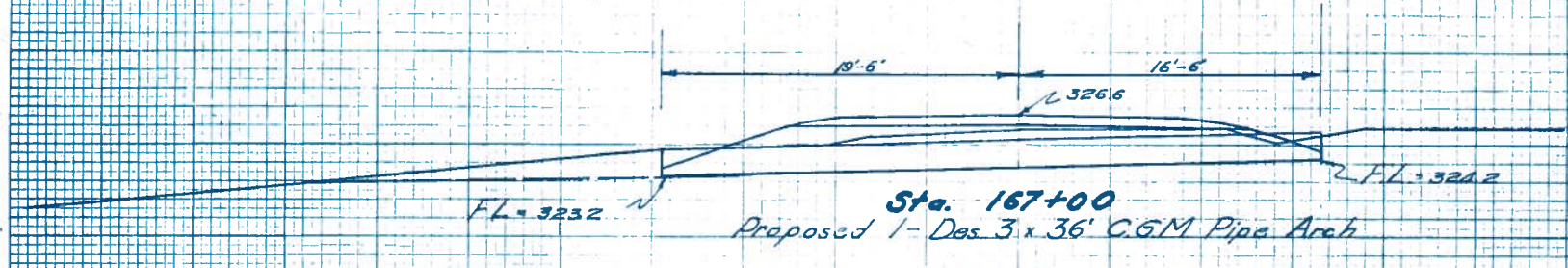
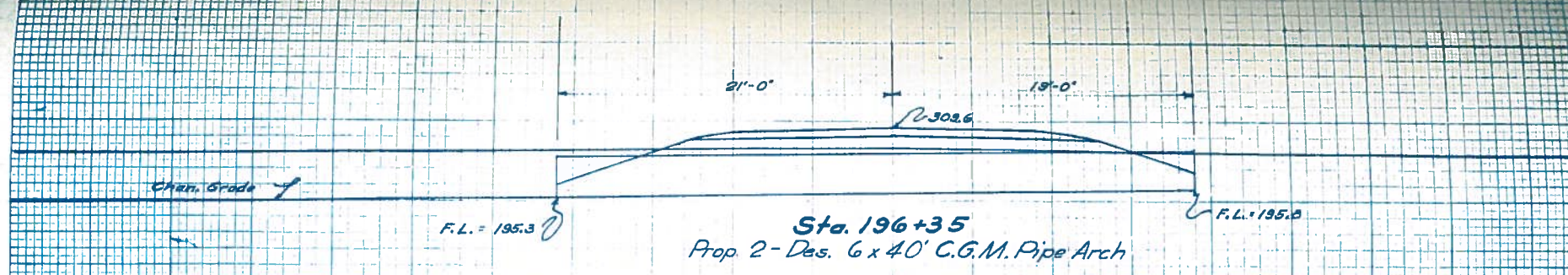
All structural steel shall be painted with grease paint.



SCALE: 1" = 3'

EXISTING STRUCTURE TO BE REPAIRED
STATION 296+52.3 TO STATION 297+24.3

POS. NO. SER. NO.	STATE	FEDERAL ID PROJECT NO.			
0	TEXAS	5-1080-17			
STATE DIST. NO.	COUNTY	DATE	TIME	DATE	TIME
13	DeWitt	942	1	942	1



DATE: 1-1-68
PROJECT: 1-1-68
SHEET: 1-1-68

NO.	DATE	BY	CHKD.	APP'D.	REVISION
1	1-1-68	J. H. H.	J. H. H.	J. H. H.	1-1-68
2	1-1-68	J. H. H.	J. H. H.	J. H. H.	1-1-68
3	1-1-68	J. H. H.	J. H. H.	J. H. H.	1-1-68
4	1-1-68	J. H. H.	J. H. H.	J. H. H.	1-1-68
5	1-1-68	J. H. H.	J. H. H.	J. H. H.	1-1-68
6	1-1-68	J. H. H.	J. H. H.	J. H. H.	1-1-68
7	1-1-68	J. H. H.	J. H. H.	J. H. H.	1-1-68
8	1-1-68	J. H. H.	J. H. H.	J. H. H.	1-1-68
9	1-1-68	J. H. H.	J. H. H.	J. H. H.	1-1-68
10	1-1-68	J. H. H.	J. H. H.	J. H. H.	1-1-68

