



COLORADO
Department of
Transportation

DOCUMENT SEPARATOR SHEET

REGION 5 – JUNE 2017 CONVERSION

To be placed at the beginning of each separator sheet.



r500001525

Description:

ROW Plans 11X17

Route # and Mile Points:

SH 15

Originating Office:

ROW/Survey

File Name:

S 0113(2)_ROW(.PDF)

Box Location:

25 of 38

S 0113 (2)

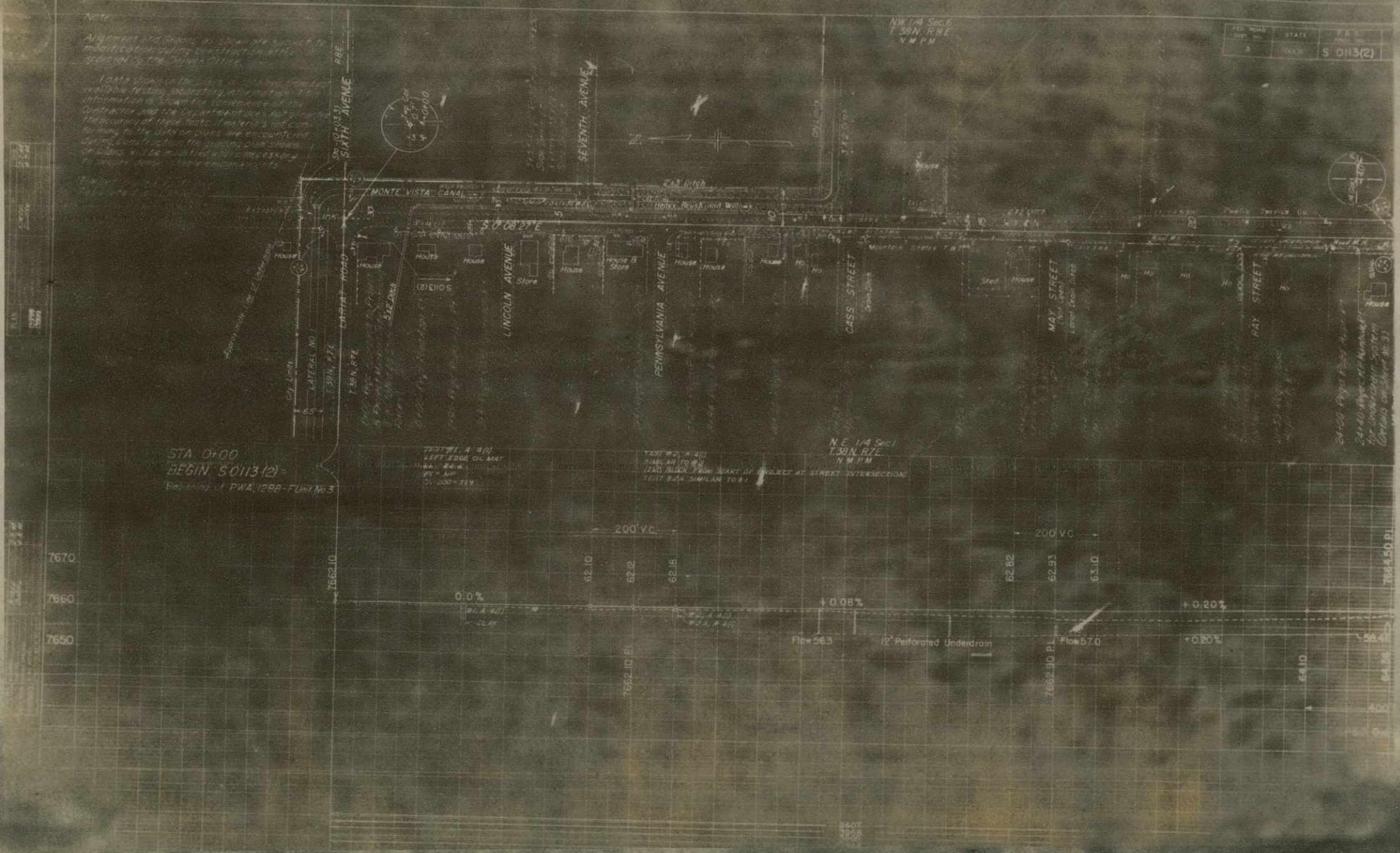
NOTE

Alignment and Grades as shown are subject to modification during construction and approved by the District Office.

Data shown on this plan is based on the available testing laboratory information. The information is shown for convenience of the Contractor and the Department does not warrant the accuracy of these tests. If materials not conforming to the data on plans are encountered during construction, the grading plan shown on plans will be modified as necessary to secure desired slope percentages.

Grades shown on this plan are based on the available testing laboratory information. The information is shown for convenience of the Contractor and the Department does not warrant the accuracy of these tests. If materials not conforming to the data on plans are encountered during construction, the grading plan shown on plans will be modified as necessary to secure desired slope percentages.

FED. ROAD DIST. NO.	STATE	P. & S. DIST. NO.
3	OKLAHOMA	S 0113(2)



STA 0+00
BEGIN S 0113(2)
Beginning of PWA 128B-Unit No 3

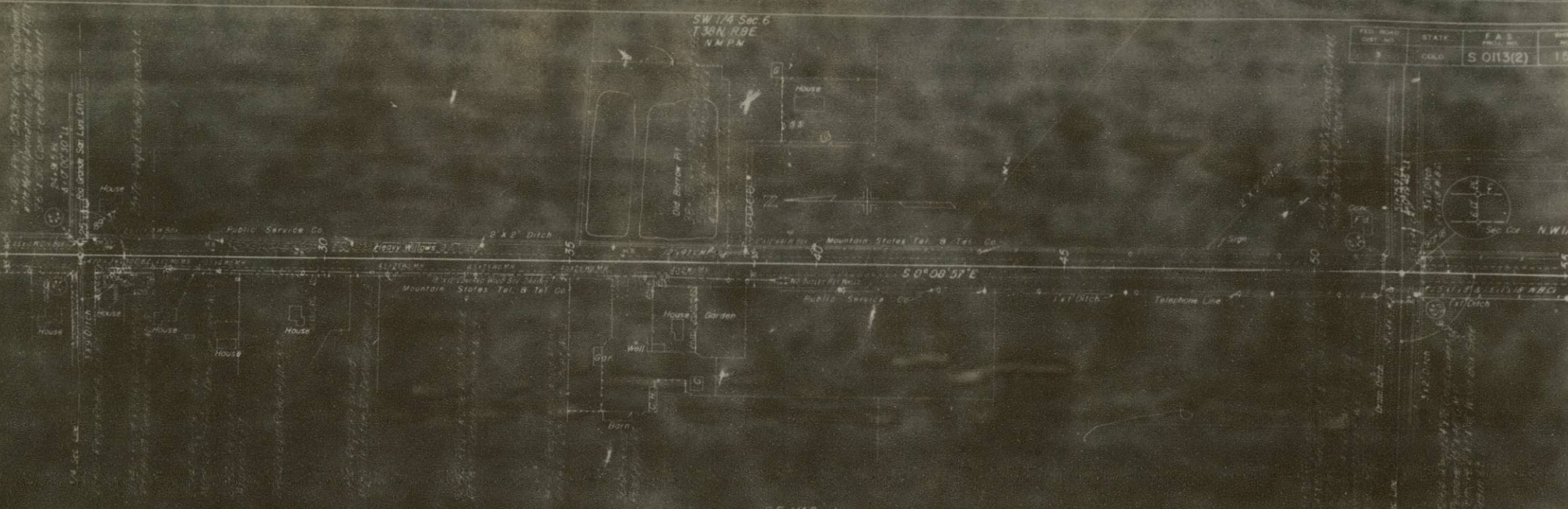
TEST NO. A 4(1)
LEFT EDGE OF MAT
P. & S. DIST. NO. 3
P. & S. DIST. NO. 3
P. & S. DIST. NO. 3

TEST NO. A 4(2)
SIMILAR TO A 4(1)
(240' BLOCK FROM START OF PROJECT AT STREET INTERSECTION)
TEST NO. 24 SIMILAR TO A 4(1)

N.E. 1/4 Sec 6
T. 38N. R. 7E
N.M.P.M.

24-000 PWA 128B-Unit No 3
24-000 PWA 128B-Unit No 3
24-000 PWA 128B-Unit No 3
24-000 PWA 128B-Unit No 3

2.3.4
2.3.4
2.3.4



FED. ROAD DIST. NO.	STATE	F.A.S. PROJ. NO.	SHEET NO.
9	CALIF.	S 0113(2)	15



PLAN
 1958
 15155

PLAN
 1958
 15155

NW 1/4 Sec 7
 T38N R8E
 N.M.P.M.

SW 1/4 Sec 7

50°28'42"E

Px1 Dia

NE 1/4 Sec 12
 T38N R7E
 N.M.P.M.

SE 1/4 Sec 12

TEST #1, A-100
 3" W FROM RT EDGE OIL MAT
 LL = 22.2
 PL = 0.6
 TL = 200 = 35.1
 TEST #2, A-100
 SIMILAR TO #1

TEST #3, A-100
 3" W FROM RT EDGE OIL MAT
 SIMILAR TO #1

TEST #4, A-100
 LL = 21.5
 PL = 0.2
 TL = 200 = 35.7
 TEST #5, A-100
 LL = 18.8
 PL = 0.7
 TL = 200 = 4.0
 TEST #6, A-100
 LL = 23.8
 PL = 0.1
 TL = 200 = 47.0

-0.02%

-0.02%

FL 549

200' V.C.

50.02 50.01 50.02

7660.00 PL

FED. ROAD DIST. NO.	STATE	P.A. 3
5	COLOR.	S. 013(2)

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SW 1/4 Sec. 7
T.38N. R.8E
N.M.P.M.

NW 1/4 Sec. 18
T.38N. R.8E
N.M.P.M.

REG. ROAD DIST. NO.	STAGE	DATE FILED	BOOK	PAGE
3	ROAD	9 OH(32)	17	

Mountain States Tel. & Tel. Co.

San Luis Valley Rural Electric Coop., Inc.

SE 1/4 Sec. 12
T.38N. R.7E
N.M.P.M.

NE 1/4 Sec. 13
T.38N. R.7E
N.M.P.M.

20'x6' Ditch

2'x1' Ditch

50°13'42"E

50°19'57"E

Hay Corral

Shed

Dam

House

Well #1

7660.42 PL

+ 0.02%

- 0.06%

+ 0.10%

EL 52.7

50.40

50.40

50.36

EL 52.2

D EL 54.4

53.5

Borrow Pit Lt. Side

200' RC
N.P.S.D. Over 1900'

NW 1/4 Sec. 18
T38 N. R8 E
NMPM

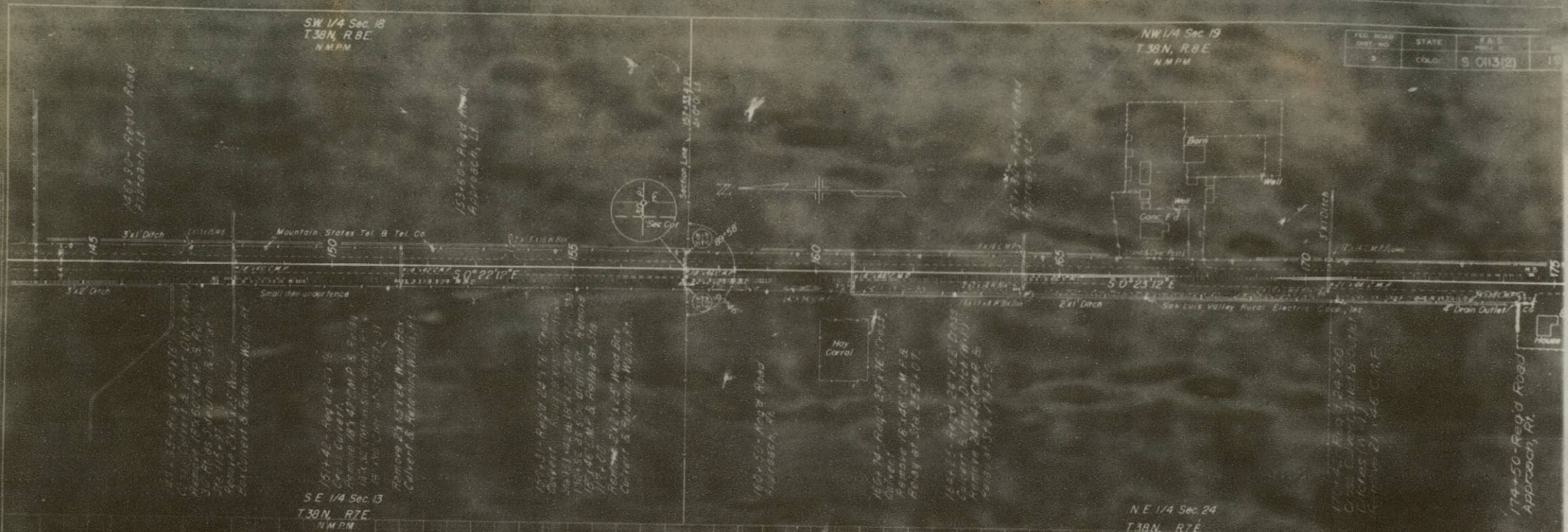
SW 1/4 Sec 18
T38N R8E
NMPM

FED. ROAD DIST. NO.	STATE	F.A.S. PROJ. NO.	SHEET NO.
3	COLORADO	S 0113(2)	18

SW 1/4 Sec 18
T38N, R8E
N.M.P.M.

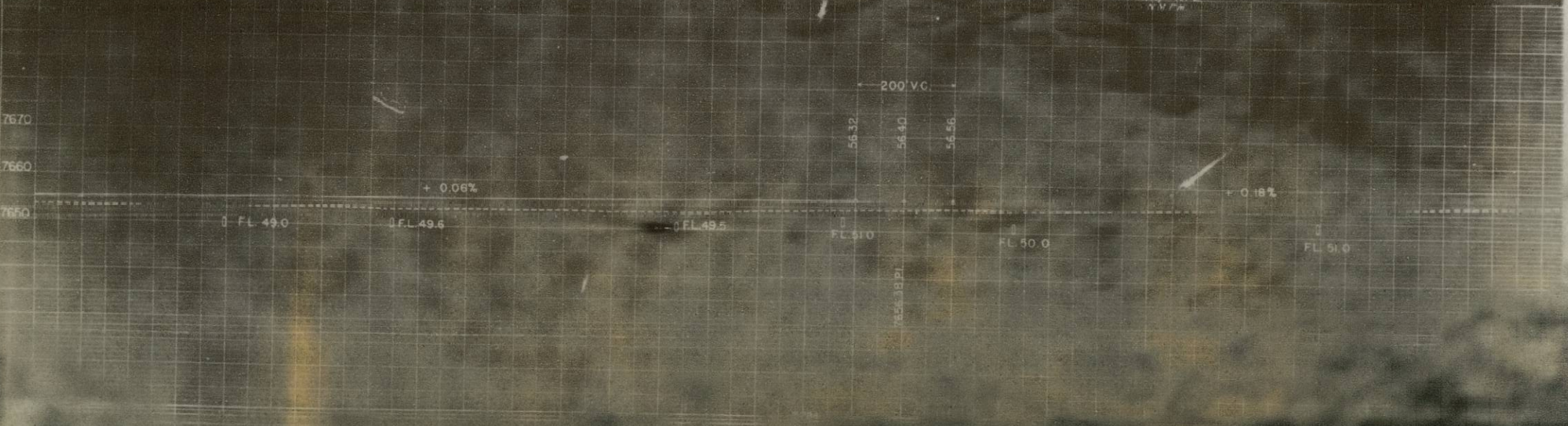
NW 1/4 Sec 19
T38N, R8E
N.M.P.M.

FED. ROAD DIST. NO.	STATE	F.A.S. PROJECT NO.	SHEET NO.
5	COLORADO	S 0113(2)	19



SE 1/4 Sec 13
T38N, R7E
N.M.P.M.

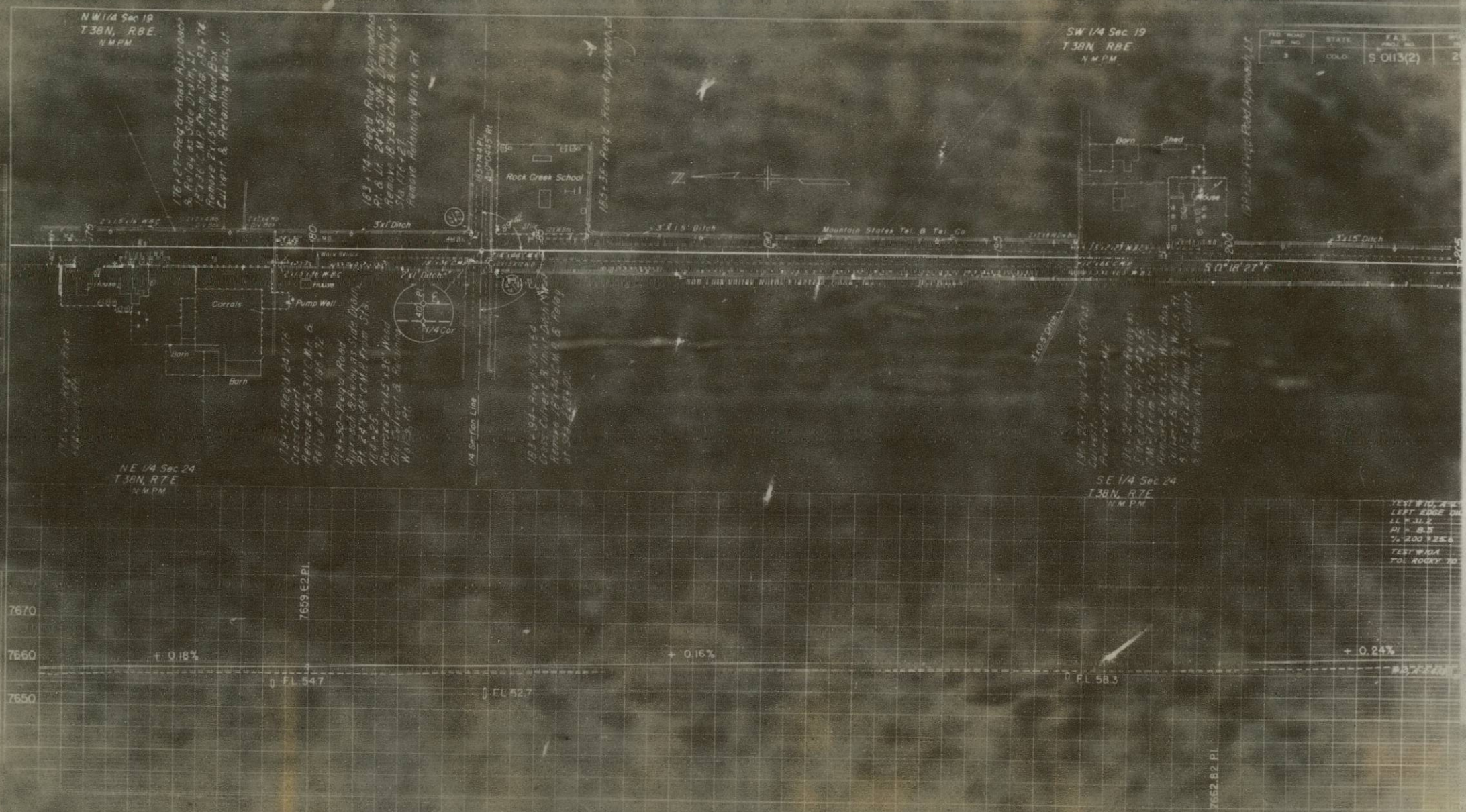
NE 1/4 Sec 24
T38N, R7E
N.M.P.M.



NW 1/4 Sec 19
T38N, R8E
N.M.P.M.

SW 1/4 Sec 19
T38N, R8E
N.M.P.M.

FED. ROAD DIST. NO.	STATE	F.A.S. PROJ. NO.	SHEET NO.
3	COLO.	S 0113(2)	2



NE 1/4 Sec 24
T38N, R7E
N.M.P.M.

SE 1/4 Sec 24
T38N, R7E
N.M.P.M.

TEST #10, A.E.
LEFT EDGE DITCH
LL = 31.2
PI = 8.5
71-200 1256
TEST #10A
FOR ROCKY MOUNTAIN

INDEX OF SHEETS

- Sheet No. 1: General Map & Title Page
- 2: Typical Section, Stabilization of Length & Design Data & Timber Guard Posts
- 3: Summary of Quantities, Surfacing Plan, Details of CMP Manhole & Details of Raising Wooden Manholes
- 4: List of Structures
- 5: Standard Marker Posts
- 6: Standard Headwall and Aprons for CMP Culverts
- 7: Unreinforced & Reinforced Concrete Culvert Pipe
- 8: Details of Roadway
- 9: Standard Timber Guard Posts
- 10: Typical Side Approach Roads, Easing, Cut Slope Treatment and Widening of Bridges
- 11: Standard Roadway Construction Traffic Signs
- 12-22: Alignment Plan & Profile
- 23-121: Cross Sections
- 122: Summary of Earthwork Quantities

M 7 B
M102G
M112D

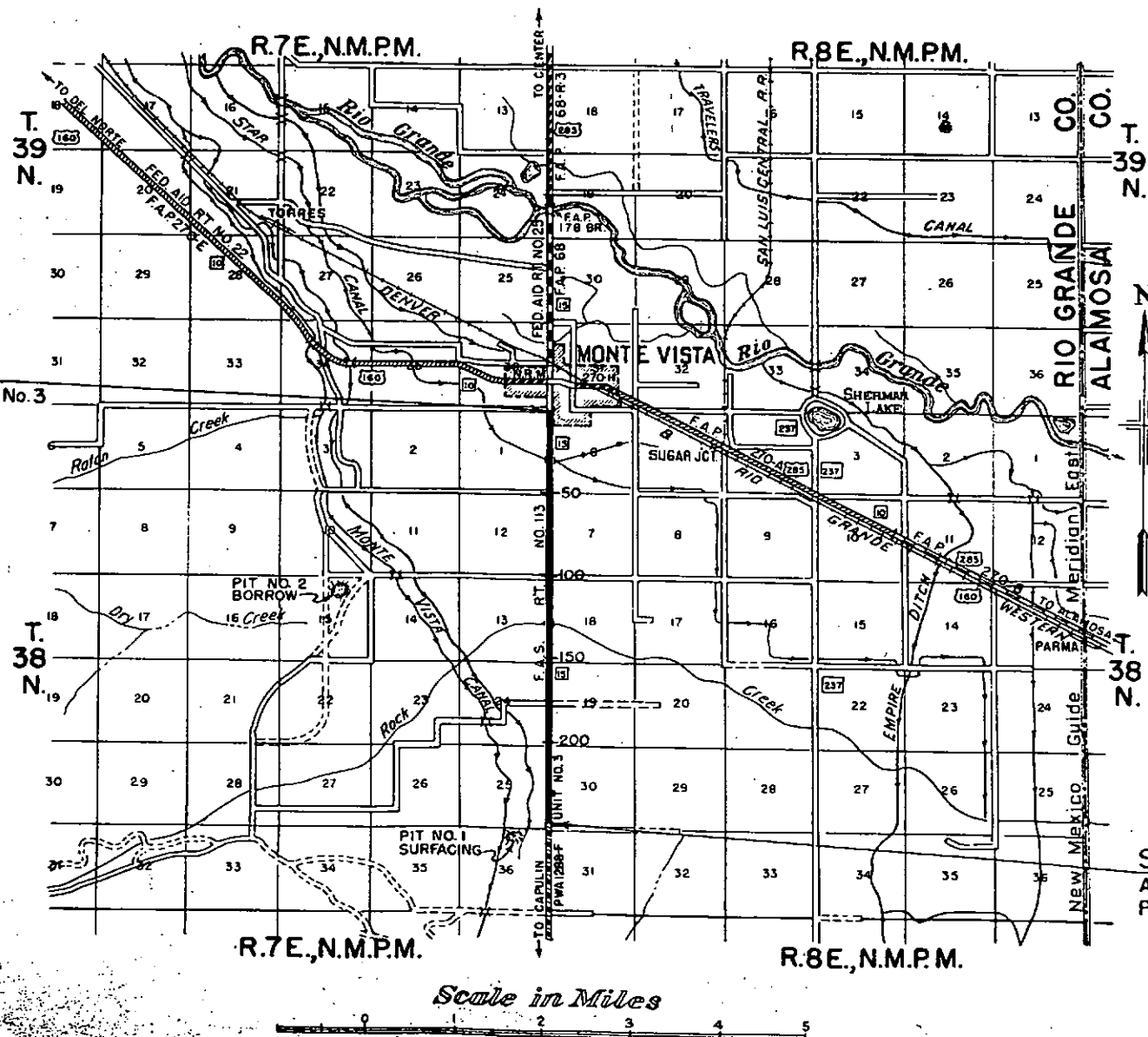
M 19B

M 2 C
M 2 D

COLORADO STATE HIGHWAY DEPARTMENT PLAN AND PROFILE OF PROPOSED FEDERAL AID SECONDARY PROJECT NO.S 0113(2) STATE HIGHWAY NO.15 RIO GRANDE COUNTY

SCALES OF ORIGINAL TRACINGS
ON PLAN, 1 IN. = 100 FT.
ON PROFILE 1 IN. = 100 FT. HORIZONTAL
1 IN. = 10 FT. VERTICAL
GRADE LINE ON PROFILE IS SHOWN AS GRADE OF FINISHED ROAD
GROSS LENGTH OF PROJECT } 25,900.0 ft. = 4.905 miles
NET LENGTH OF PROJECT }

Sta. 0+00-Begin S0113(2)=
Beginning of PWA-1288-F Unit No.3



Sta. 259+00-End S0113(2)=
A point 500 Ft. North of Mile 5 on
PWA 1288-F Unit No.3

CONVENTIONAL SIGNS

CENTER LINE
COUNTY LINE
TOWNSHIP OR RANGE LINE
SECTION LINE
QUARTER SECTION LINE
PRESENT ROAD (PLAN SHEETS)
CITY LIMITS
RAILROAD
BARBED WIRE FENCE
WOVEN WIRE-COMBINATION FENCE
TELEPHONE & TELEGRAPH LINE
POWER LINE

NOTICE TO BIDDERS
It is recommended that bidders on this Project go over the plan details with one of the following field representatives of the Department.
Chas. E. Shumate, District Engineer, Pueblo.
J.E. Casey, Construction Engineer, Durango.

RECOMMENDED FOR APPROVAL

John D. Bell
DISTRICT ENGINEER
11-24-48

APPROVED

Mark L. Watson
STATE HIGHWAY ENGINEER
11-24-48

RECOMMENDED FOR APPROVAL

DISTRICT ENGINEER
PUBLIC ROADS ADMINISTRATION
FEDERAL WORKS AGENCY

APPROVED

DIVISION ENGINEER
PUBLIC ROADS ADMINISTRATION
FEDERAL WORKS AGENCY

TYPICAL SECTION

FILL SLOPES
ON TANGENT:
4:1 where "H" is 3'-0" or less
2:1 where "H" is over 3'-0"

6" Compacted thickness of Gravel or Crushed Rock Surfacing is to be placed in two courses:

Approximate 2" Top Course Surfacing is to be placed at the rate of 25 Tons per 100 lin. ft. of Roadway.

Approximate 4" Bottom Course Surfacing is to be placed at the rate of 59 Tons per 100 lin. ft. of Roadway.

GENERAL NOTES

This Project is to be constructed in conformity with the Standard Specifications of the Colorado State Highway Department adopted January 1, 1948.

All quantities on preliminary plans are to be considered approximate only.

All Roadway Excavation required to construct this Project is to be obtained and used as indicated on the plans. Quantities involved beyond the limits of the ditches shown on the Typical Cross Section, either noted as "Borrow" on the plans or as "Embankments" in the List of Structures, are to be classified and paid for as "Unclassified Excavation". These quantities are to be staked as part of the original Excavation at locations indicated on the plans. Any slope stakes beyond the limits of the Typical Section as shown, are subject to change by the Engineer to fit conditions actually met in construction.

All poles encroaching on construction are to be moved by the owners.

All Corrugated Metal Pipe Cross Culverts, including arch culverts, shall be laid with out Metal Aprons unless otherwise noted on the plans.

Except as otherwise noted on the plans, payment for Dredging will be based on measurement along the center line of the Project.

The Detour for this Project lies along the present traveled road. At all places on the Project where the new work lies along the present traveled road, the Contractor shall, at his own expense, prosecute construction in such manner that traffic may readily pass over the road. Also, the Contractor shall maintain in safe condition and at his own expense, all temporary approaches to and crossings of intersecting roads.

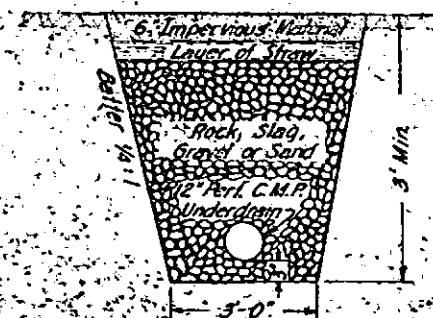
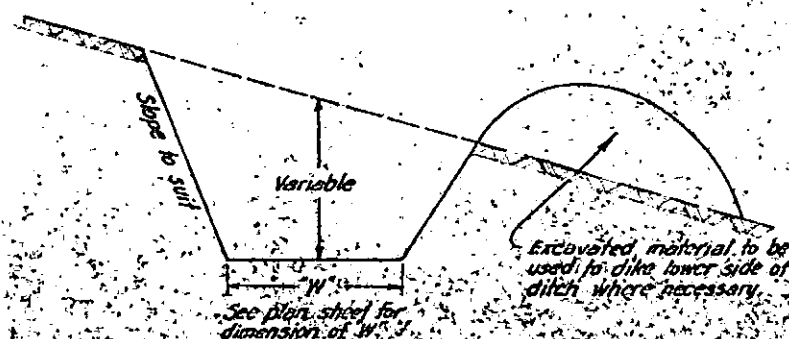
Flat wheeled roller may be substituted for rubber tired roller.

Culverts projecting from embankments shall be covered with approximately 6 inches of embankment material in such a manner that a minimum of pipe shall be exposed in the completed work. This shall be accomplished by warping embankment slopes ground and adjacent to the Culvert.

Right of Way Lines for this project are along the existing fence lines.

TYPICAL SECTION OF DITCHES &
CHANNEL CHANGES

TYPICAL SECTION OF TRENCH FOR
12" PERF. C.M.P. UNDERDRAIN



TIMBER GUARD POSTS

STATION	SIDE	SPACING	NO.
11+40	RT & LT		2
12+25	RT		1
14+52	RT		1
17+04	RT		1
21+15	RT		1
24+40	RT		1
24+92	RT & LT	Curved	2
26+46	RT		1
27+40	RT		1
77+96	RT & LT	Curved	2
88+50	RT		1
139+56	RT & LT		2
142+33	RT & LT		2
160+74	RT & LT		2
179+17	RT & LT		2
186+70	RT & LT		2
209+70	RT & LT		2
209+98	RT & LT		2
225+25	RT & LT		2
236+39	RT & LT		2
258+27	RT & LT		2
Total			34

TABULATION OF LENGTH & DESIGN DATA

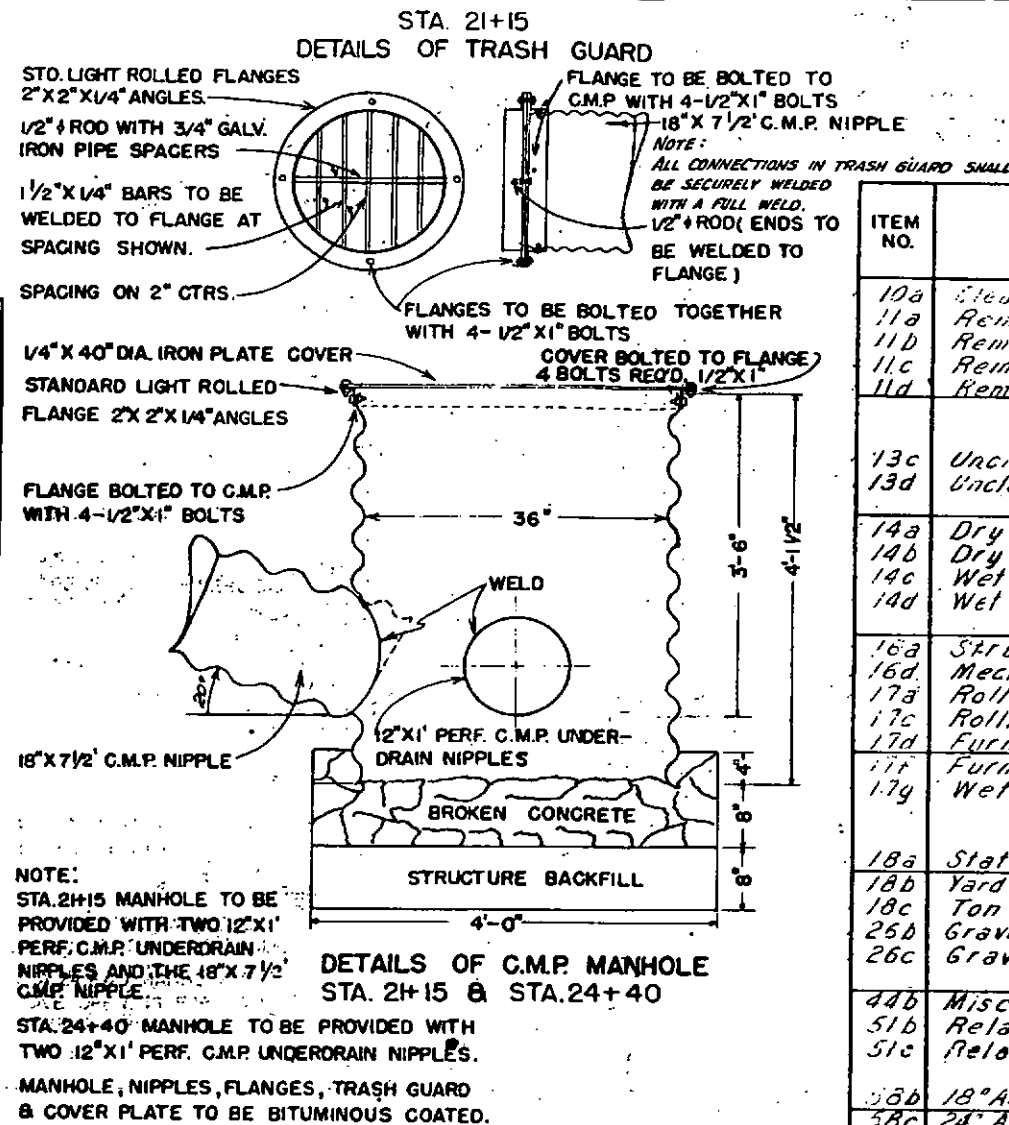
STATION	ROADWAY LIN. FT.		
0+00 Begin S0113(2) Beginning of PWA 1286-F Unit No. 3	23,366.0		
259+63 End S0113(2) A point 500' North of Mile 5 of PWA 1286-F Unit No. 3			
Total	23,900.0		
SUMMARY		LIN. FT.	MILES
Total S 0113(2) - Roadway		23,900.0	4.905
DESIGN DATA			
Maximum Degree of Curve		No Horizontal Curves	
Maximum Grade		35%	
Minimum N.P.S.D. - Horizontal		No Horizontal Curves	
Minimum N.P.S.D. - Vertical		1300'	
Maximum Design Speed		60 M.P.H.	

SURFACING PLAN

is estimated that material for Gravel Surfacing for the project is available in the vicinity of the pit indicated in the following tabulation. Estimated quantities involved in this operation are shown below.

Operation of the Surfacing Plan as here outlined will be allowed only on written permission from the Department.

MATERIAL TO BE PLACED	SOURCE	QUANTITY		OVERHAUL TON MILE
		TOP COURSE GRADING C	BOTTOM COURSE GRADING B	
0+00 to 229+20	Pit No. 1 2300' Rt. of Sb. 259+00 In N.E. 1/4 Sec. 36, T. 38 N., R. 7 E.	5730	13,523	41,788
229+20 to 259+00		745	1759	Free
Road Approaches			1545	2967
Approaches to Proj.	Quantity Available 20,800 Cu. Yds.	85	200	327
TOTALS		6560	17,027	45,082

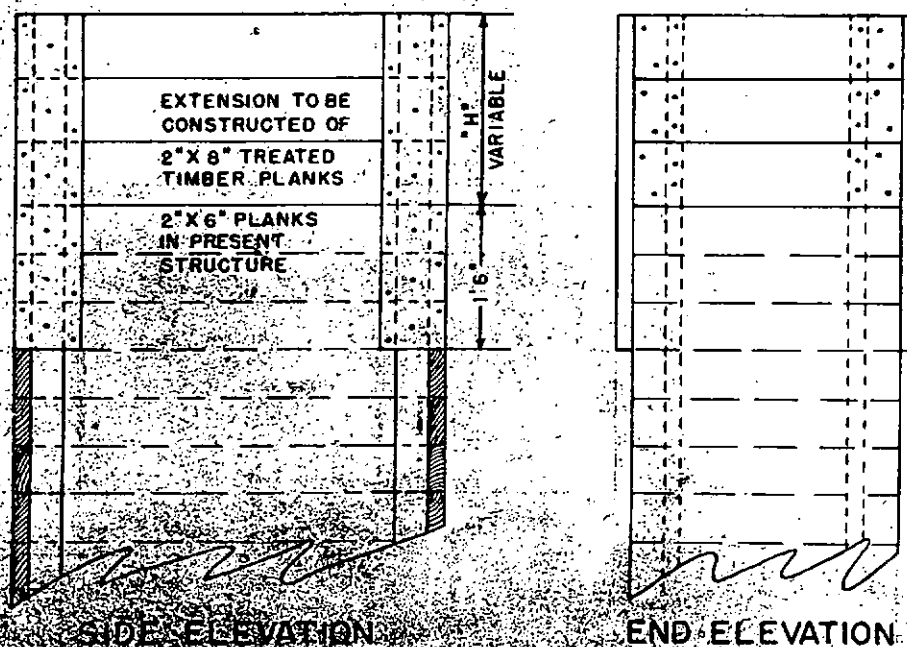


SUMMARY OF APPROXIMATE QUANTITIES

ITEM NO.	ITEM	UNIT	PROJ. TOTALS
10a	Clearing and Grubbing Entire Project	Lump Sum	
11a	Removal of Wood Underdrain & 3 Manholes	Lump Sum	
11d	Removal of 3 Structures (C.M.P.s & C.B.C.s.)	Lump Sum	
11c	Removal of 42 Structures	Lump Sum	
11d	Removing and Resetting Mail Boxes	Lump Sum	
13c	Unclassified Excavation	Cu. Yd.	84,000
13d	Unclassified Ditch Excavation	Cu. Yd.	100
14a	Dry Rock Excavation (Str.)	Cu. Yd.	90
14b	Dry Common Excavation (Str.)	Cu. Yd.	750
14c	Wet Rock Excavation (Str.)	Cu. Yd.	30
14d	Wet Common Excavation (Str.)	Cu. Yd.	250
16a	Structure Backfill (Class 1)	Cu. Yd.	1130
16d	Mechanical Tamping	Hour	280
17a	Rolling with Tamping Roller	Unit Hr.	260
17c	Rolling with Rubber Tired Roller	Hour	150
17d	Furnishing Tamping Roller	Roller Unit	2
17f	Furnishing Rubber Tired Roller	Lump Sum	
17g	Wetting	M Gal.	2550
18a	Station Yard Overhaul	Sta. Yd.	892,000
18b	Yard Mile Overhaul	Yd. Mi.	272,400
18c	Ton Mile Overhaul	Ton Mi.	45,100
26b	Gravel or Crushed Rock Surfacing (Grading B)	Ton	17,100
26c	Gravel or Crushed Rock Surfacing (Grading C)	Ton	6,600
44b	Miscellaneous Treated Timber	W. Ft. dm.	0.4
51b	Relaying 18" Pipe	Lin. Ft.	584
51c	Relaying 24" Pipe	Lin. Ft.	170
58b	18" Asbestos Bonded Corrugated Metal Culvert Pipe	Lin. Ft.	462
58c	24" Asbestos Bonded Corrugated Metal Culvert Pipe	Lin. Ft.	174
58d	30" Asbestos Bonded Corrugated Metal Culvert Pipe	Lin. Ft.	164
58e	36" Asbestos Bonded Corrugated Metal Culvert Pipe	Lin. Ft.	124
58g	48" Asbestos Bonded Corrugated Metal Culvert Pipe	Lin. Ft.	50
58g	58"x36" Asbestos Bonded Corrugated Metal Pipe Arch Culvert	Lin. Ft.	124
71c	12" Perforated Corrugated Metal Pipe Underdrain	Lin. Ft.	800
85a	Trash Guards	Each	1
92	Timber Guard Posts	Each	34
95g	Metal Aprons for 48" C.M.P. Culverts (Bituminous Coated)	Each	1
95g	Metal Aprons for 58"x36" C.M.P. Arch Culverts (Bituminous Coated)	Each	2
132mx	Manholes (Bituminous Coated C.M.P.)	Each	2
81a	Project Markers (To be furnished & installed by State Forces)	Each	2
Alternate Bids to Provide Reinforced Concrete Culvert Pipe Will be Received in Lieu of Above Item Nos. 58b, 58c, 58d, 58e, 58g, & 95g.			
52b	18" Reinforced Concrete Culvert Pipe	Lin. Ft.	462
52c	24" Reinforced Concrete Culvert Pipe	Lin. Ft.	174
52d	30" Reinforced Concrete Culvert Pipe	Lin. Ft.	164
52e	36" Reinforced Concrete Culvert Pipe	Lin. Ft.	124
52g	48" Reinforced Concrete Culvert Pipe	Lin. Ft.	50
All concrete culvert pipe is to be Standard Strength			

DETAILS FOR RAISING WOODEN MANHOLES, RT. STA. 26+, 27+, 31+, 32+, & 34+

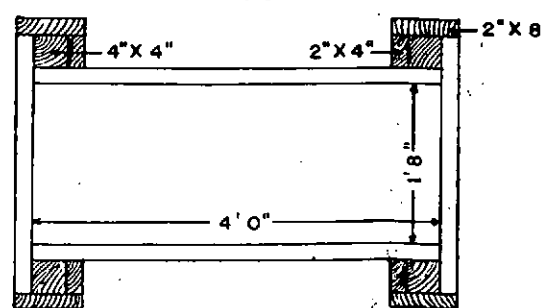
NOTE:
PRESENT WOODEN LID TO BE USED ON RAISED MANHOLE.



LIST OF MATERIALS

STATION LOCATION	"H"	*NAILS LBS.	TREATED TIMBER M. Ft. dm.
26+46	16"	6	.065
27+40	16"	6	.065
31+00	32"	9	.119
32+92	16"	6	.065
34+95	16"	6	.065
TOTAL		33	.379

*NAILS TO BE NO. 20d



LIST OF STRUCTURES

STATION	DESCRIPTION	REMOVE STRUCTURE	EXCAVATION			STRUCTURAL EXCAVATION			STR. BACKFILL CLASS. 1	GRAVEL OR CRUSHED ROCK SURF	CORRUGATED METAL CULVERT PIPE					RELAY C.M.P.		C.M.P. ARCH CULVERT	PERF. C.M.P.	METAL APRONS		MISC. TRTD. TIMBER	MECH. TAMPING	MISCELLANEOUS		
			UNCLAS. CU. YDS.		UNCL. DITCH	CU. YDS. *					LIN. FT.					LIN. FT.		LIN. FT.	LIN. FT.	EACH			HOURS			
			EXC.	EMB.	CU. YDS.																					
0+00 0+00 1+30 3+81	Project Marker & Approach Jo. Project Road Approach, Rt. Road Approach, Rt. Road Approach, Rt.									75 60 15 60																1-Project Marker (State Forces)
5+55 7+41 8+25 8+84	Road Approach & Side Drain, Lt. Remove 15x10x30 Wood Box Side Drain, Lt. Road Approach, Rt. Road Approach, Rt. Road Approach, Rt.	1						10	13	60 60 15 15	50															
10+35 11+95 13+84	Road Approach, Rt. Road Approach, Rt. Road Approach, Lt.									15 60 15																
14+62 18+40 to 23+33 18+40 to 24+40 18+69 18+83	Road Approach, Rt. Remove Wood Underdrain & 3 Wood Manholes Rt. Underdrain, Rt. Road Approach, Rt. Road Approach, Lt.									15 30 15									600							Remove Wood Underdrain & Manholes
19+49 21+15	Road Approach, Rt. Manhole, Surface Drain Inlet with Trash Guard. (Details on Sheet No. 3)								5	15 6																1-C.M.P. Manhole 1-Trash Guard
21+53 24+00 24+40 24+92	Road Approach, Rt. Road Approach, Rt. Manhole Rt. (Details on Sheet No. 3) Cross Culvert with Metal Apron at Inlet Remove 4'-10" x 3'-6" x 30" Conc. Box Culvert.								10	60 15 30								46		1						1-C.M.P. Manhole Remove 4'-10" x 3'-6" x 30" Conc. Box Culvert
25+10 25+76 26+46	Road Approach, Rt. Road Approach, Lt. Raise Wood Manhole, Rt. (H=16") Details on Sht. No. 3								5	20 15														.065		
27+40 27+72 29+00 31+00	Raise Wood Manhole, Rt. (H=16") Details on Sheet No. 3 Road Approach, Rt. Road Approach, Rt. Raise Wood Manhole, Rt. (H=32") Details on Sht. No. 3								5	15 15														.065 .119		
32+92 34+95 36+00 38+36	Raise Wood Manhole, Rt. (H=16") Details on Sht. No. 3 Raise Wood Manhole, Rt. (H=16") Details on Sht. No. 3 Road Approach, Rt. Road Approach & Side Drain Lt. Remove 12x47' C.M.P.	1							5	15 15	50													.065 .065		
31+40 51+76	Cross Culvert, Inlet & Outlet Ditches (W=2') Road Approaches, Rt. & Lt.; Side Drain, Rt. & 18" x 40" Side Drain, 60' Rt.; Remove 24' x 46' C.M.P. & Relay at Sta. 136+52. Remove 15' x 1' x 80' Wood B.C. & 15' x 1' x 15' Wood B.C., Rt.	2			10				32 25 10	29 26 10	120	40	50	72												
52+14 55+52	Cross Culvert. Remove 15' x 46' C.M.P. Remove 2' x 1' x 18" Wood Box Side Drain, Lt. Road Approach & Side Drain, Lt.; Remove 1x1x18 Wood Box, Side Drain, Lt.	1 1 1							20 10	25 10			76													
55+15 60+00	Road Approach & Side Drain, Rt.; Remove & Relay 18' x 22' C.M.P. at Sta. 80+10. Remove Wd. Retaining Walls, Rt. Road Approach & Side Drain, Rt.; Remove & Relay 18' x 22' C.M.P. at Sta. 80+10. Remove Wd. Retaining Walls, Rt.	1 1							15 15	10 10	15 15	40 40														
63+25 77+80	Road Approach & Side Drain, Rt.; Remove 2.5' x 2' x 29' Wood Box & Retaining Walls, Rt. Road Approach, Rt.	1							15	10	15	40														
77+82 77+88 77+94	Road Approach, Lt. Relay 25' Side Drain, Lt. C.M.P. from Sta. 139+36. Remove 2' x 1' x 40' Wood Box & Retaining Walls, Rt. Side Drain, Rt.; Remove 2' x 15' x 66' W.B. Side Drain & Retaining Walls, Rt.	1 1 1							15 25	16 21	15					62										
77+96	Cross Culvert; Remove 15' x 52' C.M.P. Cross Drain	1							20	24			74													

LIST OF STRUCTURES-CONT

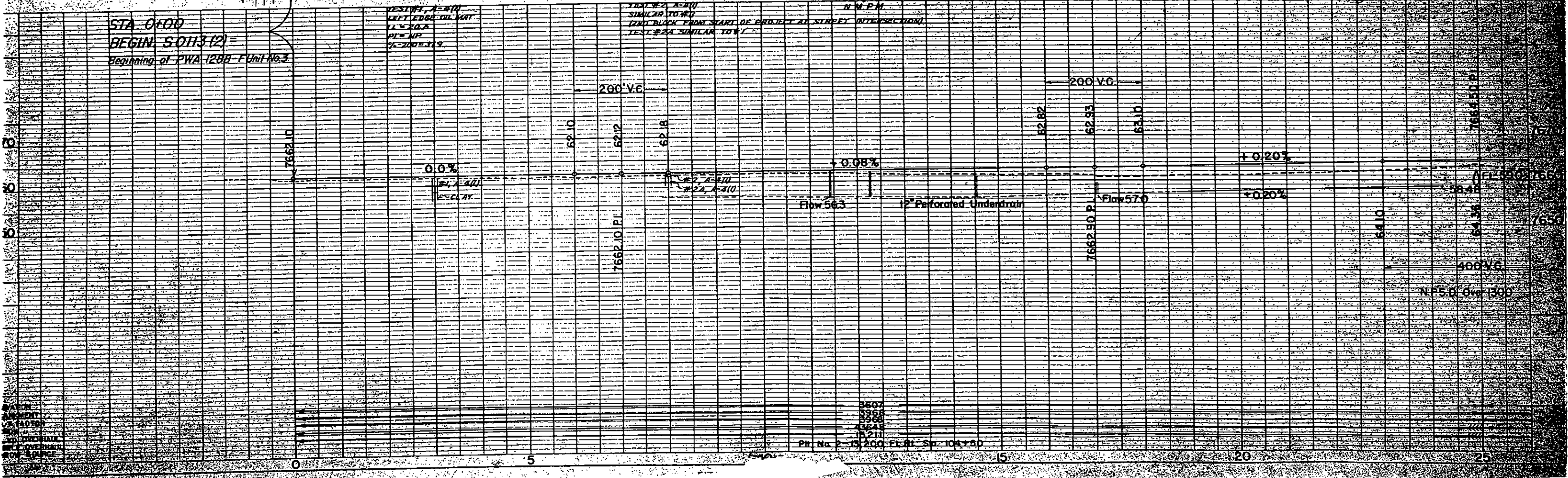
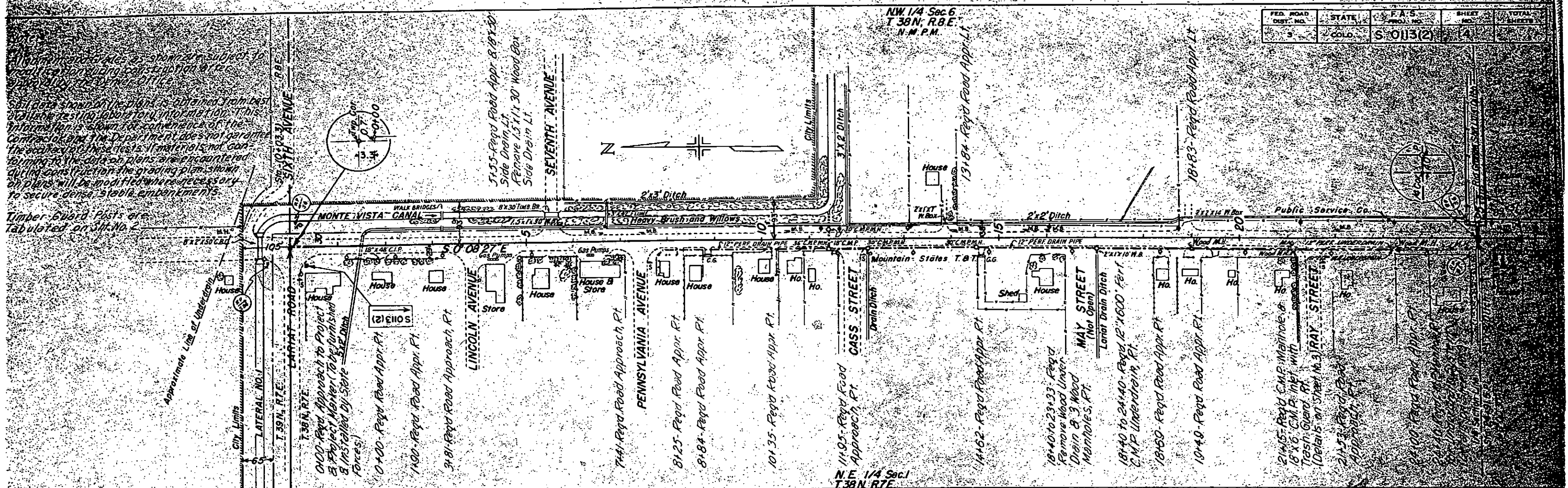
FED. ROAD DIST. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
11	COLO.	15-01112		

STATION	DESCRIPTION	REMOVE STRUCTURE	EXCAVATION			STRUCTURAL EXCAVATION			STR. BACKFILL CLASS. 1	GRAVEL OR CRUSHED ROCK SURF.	CORRUGATED METAL CULVERT PIPE					RELAY C.M.P.		C.M.P. ARCH CULVERT	PERF. C.M.P.	METAL APRONS		MISC. TRTD. TIMBER	MECH. TAMPING	MISCELLANEOUS		
			UNCLASS. CU. YDS.	UNCL. DITCH	CU. YDS.	CU. YDS. *	LIN. FT.					LIN. FT.		EACH	EACH											
							EXC.	EMB.			CUYDS	18"	24"			30"	36"			48"	18"				24"	
																										58X36
	Road Approach, Rt. & Lt. Side Drain, Lt. C.M.P.s from Sta. 101+00 to 101+100. Remove 2x15x25 Wood Box & Retaining Walls, Lt.	1		30 50				5	11	15	15						44									
103+00	Cross Culvert & Metal Apron at Inlet. Remove combined 36"x31" C.M.P. & 5x35x32 C.B.C. Cross Culvert & Outlet Ditch (W-2)				5				20	50								78		1						Remove Comb. 36"x31" C.M.P. & 5x35x32 C.B.C.
104+34	Road Approaches, Rt. & Lt. Side Drain, Rt. & Lt. Side Drain, 60' Rt.			250					50	26	120	40	80													
104+60	Cross Culvert. Remove & Relay 24"x40" C.M.P. at Sta. 130+36								10	10																
									15	24			74													
106+65	Road Approach, Rt.			25					50	26	120	40	80													
106+90	Side Drain, Rt. Remove 2x15x20 Wood Box Culvert & Retaining Walls, Rt.	1							30	37	30															
115+37	Cross Culvert & Inlet Ditch (W-1). Relay as Side Drain, Rt. C.M.P. from Sta. 147+35. Remove 18"x45" C.M.P. & 2x15x23 W.B.C. & Retaining Walls, Rt.				5				15	24						30										
									10	8																
117+00	Road Approach & Relay as Side Drain, Rt. C.M.P. from Sta. 150+30. Remove 2.5x1'x20' Wd. B.C. & Retaining Walls, Rt.	2		25					10	12	15					46										
120+30	Road Approach, Lt.	1		15						15																
122+35	Road Approach, Rt.			15						15																
130+20	Road Approach, Lt.			30					15	24																
		2							10	13			74				40									
134+03	Cross Culvert, Inlet & Outlet Ditches (W-2)				10				20	31					64											
136+52	Remove comb. 36"x31" C.M.P. & 6x3x28 Conc. Box Culv. Road Approach & Relay 24"x46" C.M.P. from Sta. 157+76 as Side Drain, Rt. Remove 18"x22" C.M.P. and relay at Sta. 157+91. Remove retaining walls, Rt.	1		30					10	15	15						46								Remove comb. 36"x31" C.M.P. & 6x3x28 Conc. Box Culv.	
139+56	Cross Culvert. Relay as Side Drain, Rt. C.M.P. from Sta. 142+33. Remove 18"x62" C.M.P. & Relay at Sta. 17+88. Remove 2.5x1.5x24' Wood B.C. & retaining walls, Rt.	1							15	25							32									
									10	8																
142+23	Cross Culvert. Remove 18"x64" C.M.P. & Relay 32' as Side Drain, Rt. & 32' at Sta. 139+56.								15	25																
143+31	Extend 60'x42" Cross Culvert, Rt. & Lt. Remove Wooden Headwall	1							15	10							32									
146+30	Road Approach, Lt.			30						15																
147+85	Cross Culvert, & Inlet Ditch (W-1). Remove 18"x60" C.M.P. & Relay 20' at Sta. 147+85 as Side Drain, Rt. Remove 2x15x25' Wood Box Culvert & Retaining Walls, Rt.	1			5				20	25	15						76									
									10	8							30									
151+42	Cross Culvert. Remove 18"x42" C.M.P. & Relay 18" x 32' as side drain, Rt. & 32' at Sta. 151+42. Remove 2x15x24' Wood Box & Retaining Walls, Rt.	1							20	25							76									
									10	8							32									
153+60	Road Approach, Lt.			35						15																
157+31	Cross Culvert. Relay 18"x10" C.M.P. from Sta. 151+42 & 18"x22" C.M.P. from Sta. 136+52 as side drain, Rt. Remove 18"x46" C.M.P. & relay at Sta. 117+00. Remove 2x15x25' Wd. B.C. & Retaining walls, Rt.	1							20	25							32									
									10	8																
160+50	Road Approach, Rt.			30						15																
160+74	Cross Culvert. Remove 18"x46" C.M.P. & Relay at Sta. 152+07								15	25	15															
164+25	Cross Culvert & Inlet Ditch (W-1). Remove 24"x48" C.M.P. & Relay at Sta. 150+30				5				15	20																
167+80	Road Approach, Lt.			30						15																
170+42	Cross Culvert, Inlet & Outlet Ditches (W-1)	1			5				20	20	15		60													
174+20	Remove 2x15x25' Wd. B.C. & Retaining Walls, Lt.			25						15																
176+27	Road Approach & Relay as Side Drain, Lt. C.M.P. from Sta. 150+30. Remove 2x15x25' Wd. B.C. & Retaining Walls, Lt.	1		20					10	9	15						36									

LIST OF STRUCTURES

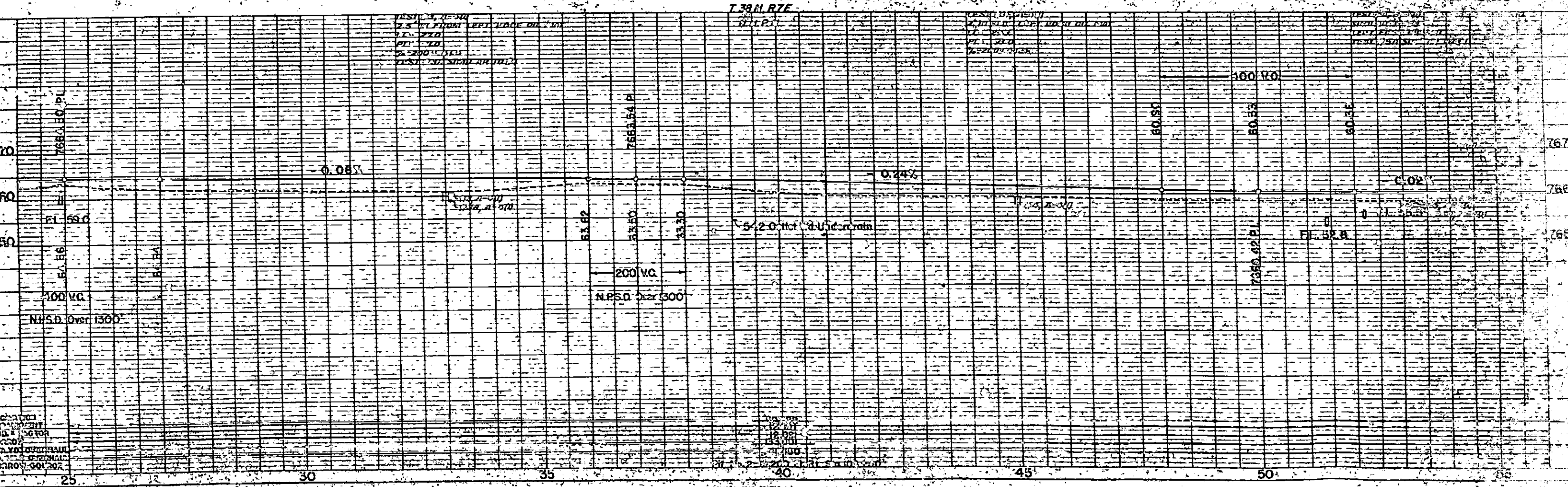
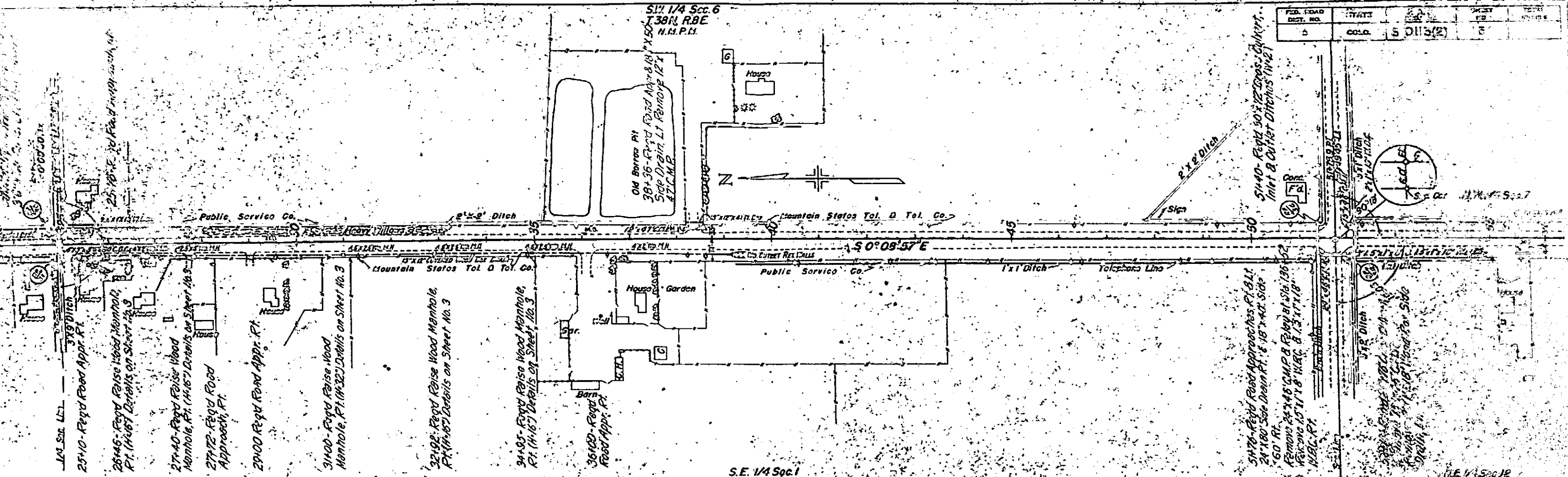
STATION	DESCRIPTION	REMOVE STRUCTURE	EXCAVATION			STRUCTURAL EXCAVATION			STR. JACKFILL CLASS 1	GRAVEL OR CRUSHED ROCK SURF	CORRUGATED METAL CULVERT PIPE					RELAY C.M.P.		C.M.P. ARCH CULVERT		PERF. C.M.P.		METAL APRONS		MISC. TRTD. TIMBER		MECH. TAMPING		MISCELLANEOUS
			UNCLASS.		UNCL. DITCH	CU. YDS. ±					LIN. FT.					LIN. FT.		LIN. FT.		LIN. FT.		EACH		M.F.T.M.	HOURS			
			EXC.	EMB.							18"	24"	30"	36"	48"	18"	24"	36"x36"	12"	50"x36"	48"							
			CU. YDS.	CU. YDS.	CU. YDS.						CU. YDS.	TONS																
176+72	Road Approach, Rt. Remove 24"x36" C.M.P. & Relay at 176+72. Remove 2'x15'x36" Wood B.C. & Retaining Walls, Rt.	1		25			20	25	50																			
183+94	Road Approaches Rt. & Lt. Side Drain, Rt. Remove 18"x36" C.M.P. & Relay at Sta. 176+27. Remove Ret. Walls Rt. Cross Culvert, Inlet Ditch (W-1). Remove 18"x44" C.M.P. at Sta. 228+00.	1		25			20	16	15																			
185+00	Road Approach, Lt. Cross Culvert. Remove 12"x66" C.M.P. Relay as Side Drain, Rt. C.M.P. from Sta. 176+72. Remove 2'x15'x36" Wood B.C. & Retaining Walls, Rt. & 2'x15'x27" Wood Box C. & Retaining Walls, Lt.	1		250			25	16	120																			
193+32	Road Approach, Lt. Cross Culvert, Inlet & Outlet Ditches (W-1). Remove 18"x30" C.M.P. & Relay at 240+55. Cross Culvert with Metal Apron at Inlet. Remove 36"x33" C.M.P.	1		20			15	24	50																			
209+70		2					15	12																				
209+98				15	5		10	23	25																			
210+25	Road Approach, Rt. Road Approach & Side Drain, Lt. Remove 2'x1'x24" Wood Box Culvert & Retaining Walls, Lt.	1		10			10	22																				
223+05				30			10	10	15	40																		
225+25	Cross Culvert. Remove 14"x49" Cast Iron Pipe. Road Approach & Relay as Side Drain, Lt. C.M.P. from Sta. 183+94. Road Approach & Relays Side Drain, Rt. C.M.P. from Sta. 236+20. Remove 2'x15'x31" Wood B.C. & Retaining Walls, Rt.	1		20			15	24	74																			
228+00		1		15			15	12	15																			
236+20																												
236+30	Remove 15'x1'x21" Wood B.C. & Retaining Walls, Lt. Cross Culvert. Remove 18"x46" C.M.P. & Relay at 236+20. Road Approach & Relay as Side Drain, Lt. C.M.P. from Sta. 209+70. Remove 2'x1'x23" Wood Box Culvert, Lt.	1		30			15	24	74																			
236+30		1					10	8	15																			
240+85	Road Approach & Relay as Side Drain, Rt. C.M.P. from Sta. 236+20. Remove 2'x15'x32" Wood B.C. & Retaining Walls, Lt. Road Approach & Relays Side Drain, Lt. C.M.P. from Sta. 180+74. Remove 12"x28" C.M.P. & Retaining Walls, Lt.	1		20			20	11																				
252+07		1		10			5	12	15																			
258+27	Cross Culvert. Remove 18"x42" C.M.P. & Relay at 240+85. Remove 2'x1'x20" Wood Box Culvert, Lt. Project Marker & Approach to Project	1		400			15	24	210																			Project Marker (State Forces)
259+00																												
	Mechanical Tamping for all C.M.P. Culverts																											280
	PROJECT TOTALS	42		2475	60		1110	1125	1830	468	1714	164	124	50	584	170		124	600	2	1	379	280					

* Structural Excavation is estimated to be 90% Common & 10% Rock, each of which is estimated to be 75% Dry & 25% Wet.
† 1-foot of pipe is included for Connecting Band.
▲ Asbestos Bordered
○ Bituminous Coated

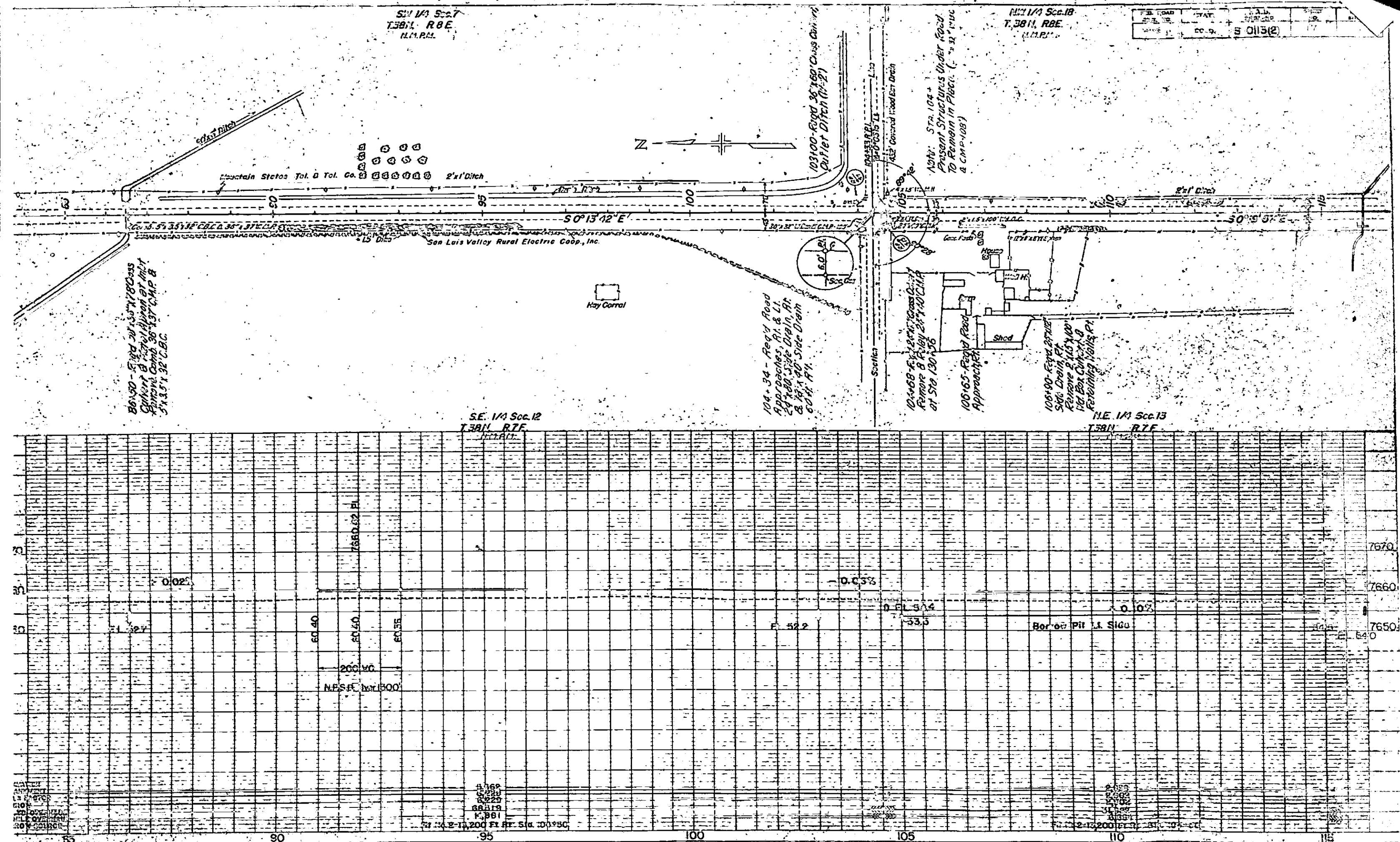


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FED. ROAD DIST. NO.	STATE	PROJECT NO.	SHEET NO.
5	COLO.	5 D113(2)	5



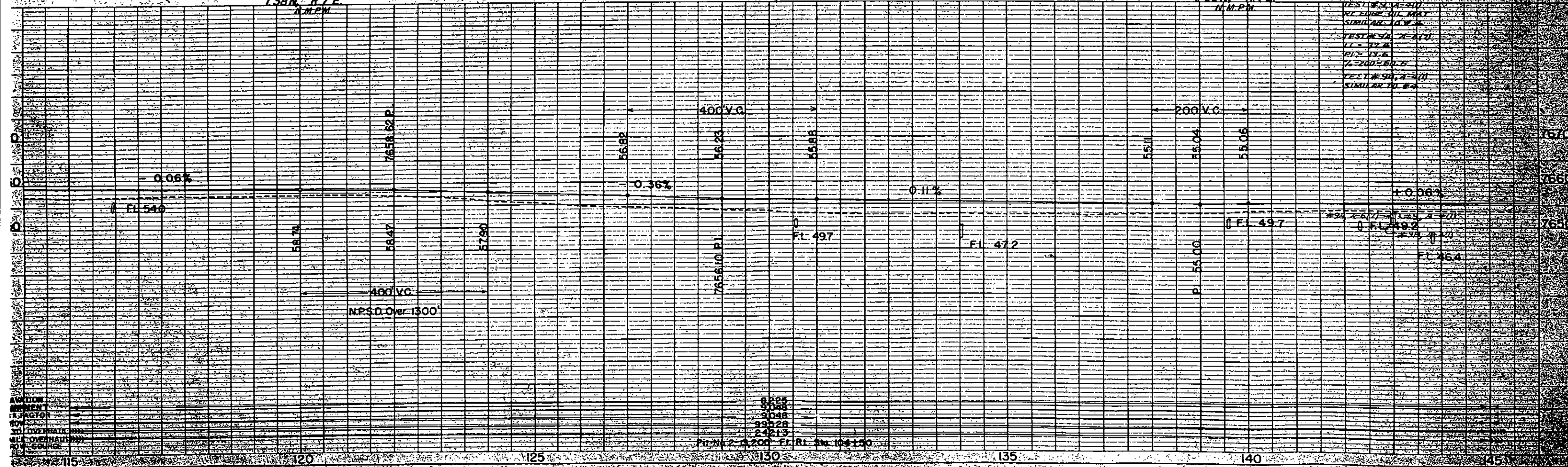
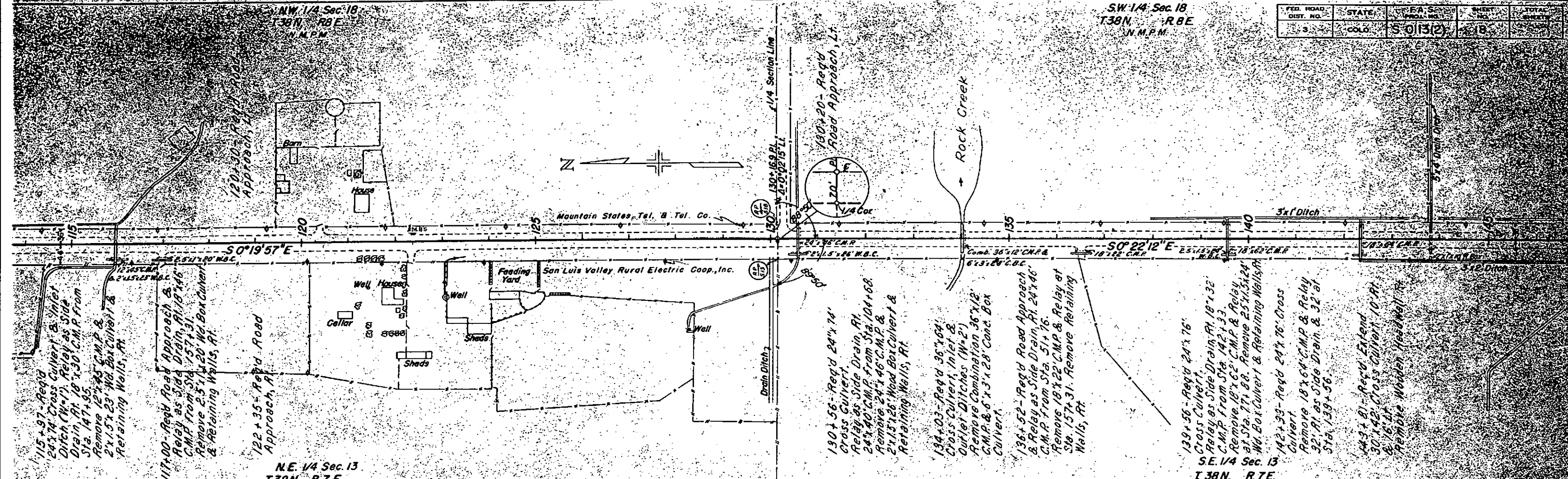
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100-100000	10-10-60	0115(2)	17

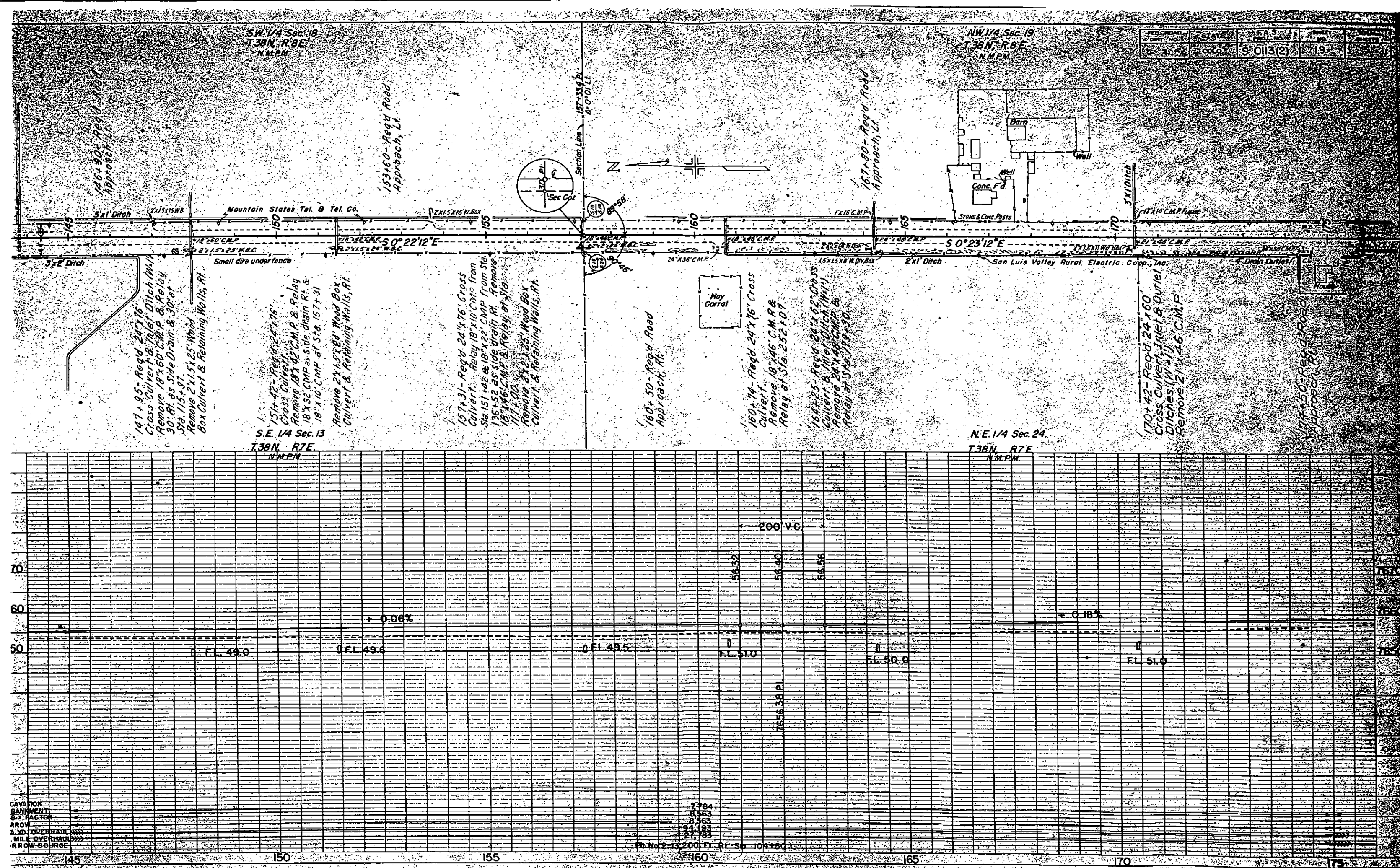


NW 1/4 Sec. 18
T38N R8E
N.M.P.M.

SW 1/4 Sec. 18
T38N R8E
N.M.P.M.

FED. ROAD DIST. NO.	STATE	F.A. SCALE	SHEET NO.	TOTAL SHEETS
3	COLORADO	S 0132	18	

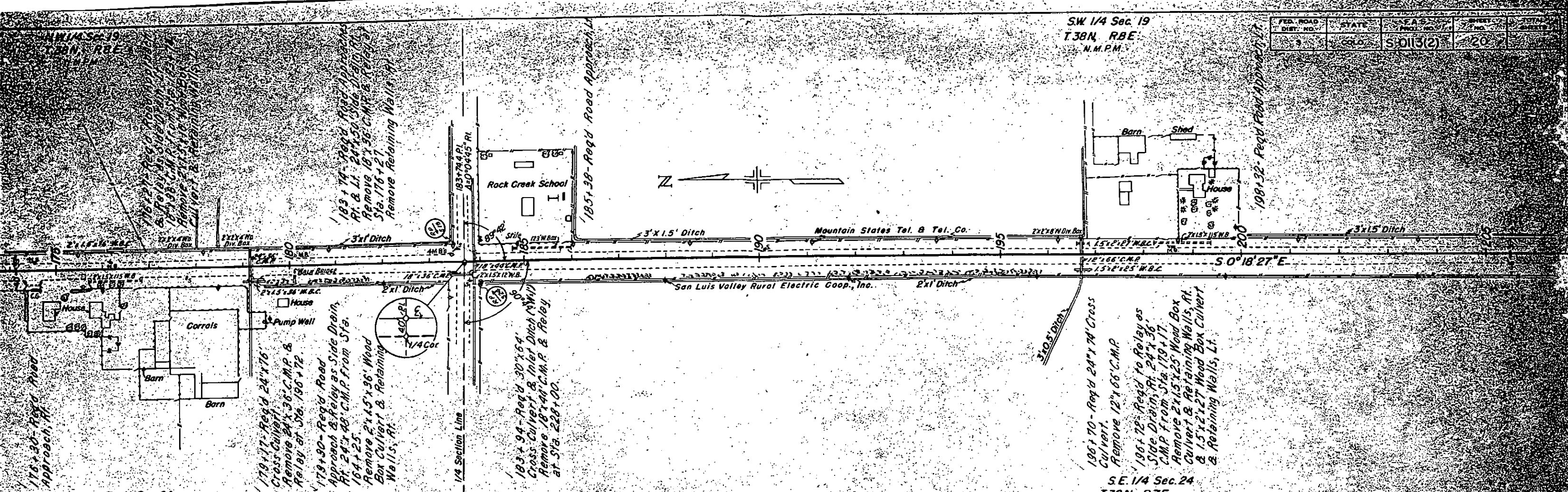




SW 1/4 Sec. 19
T.38N. R.8E
N.M.P.M.

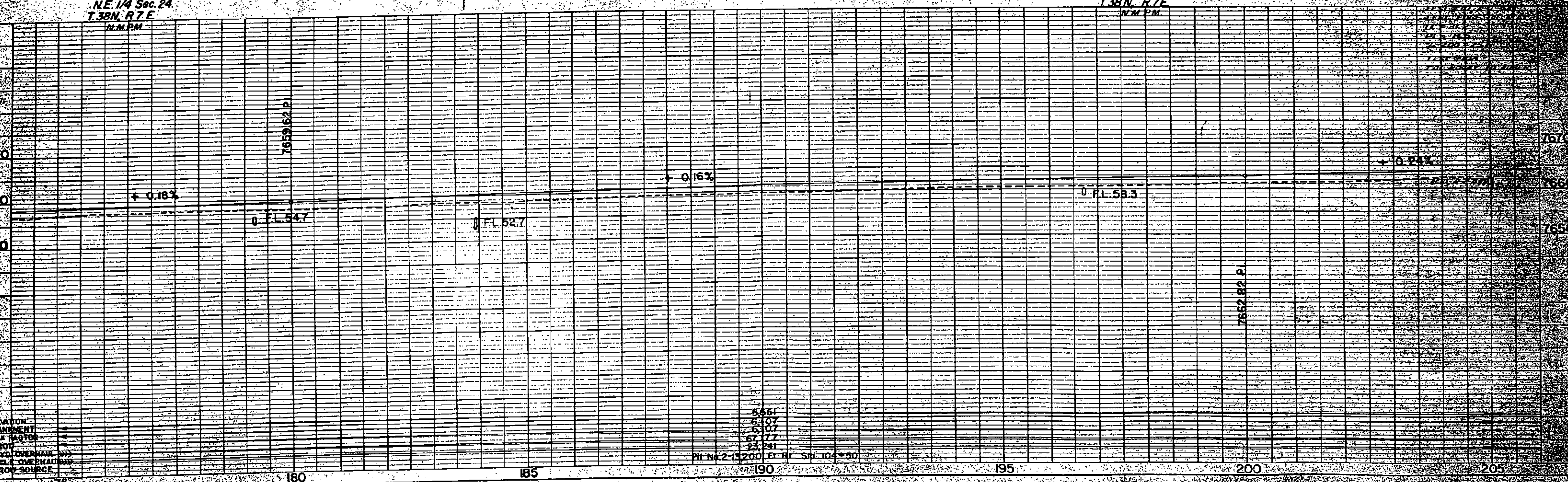
SW 1/4 Sec. 19
T.38N. R.8E
N.M.P.M.

FED. ROAD DIST. NO.	STATE	SEALED PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	S.D.113(2)	20	



NE 1/4 Sec. 24
T.38N. R.7E
N.M.P.M.

SE 1/4 Sec. 24
T.38N. R.7E
N.M.P.M.

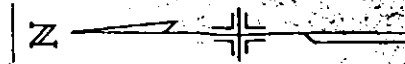


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FED. ROAD DIST. NO.	STATE	COUNTY
100	NEVADA	CLATSOP

NW 1/4 Sec. 30
T38N R8E
N.M.P.M.

223+05 - Reg'd Road Approach & 18" x 40" Side Drift, Lt. Remove 24" x 24" Wood Box Culvert & Retaining Walls
228+00 - Reg'd Road & 18" x 40" Side Drift, Lt. Remove 24" x 24" Wood Box Culvert & Retaining Walls



Mountain States Tel. & Tel. Co.

Barn
House
Pump Well

San Luis Valley Rural Electric Coop., Inc.

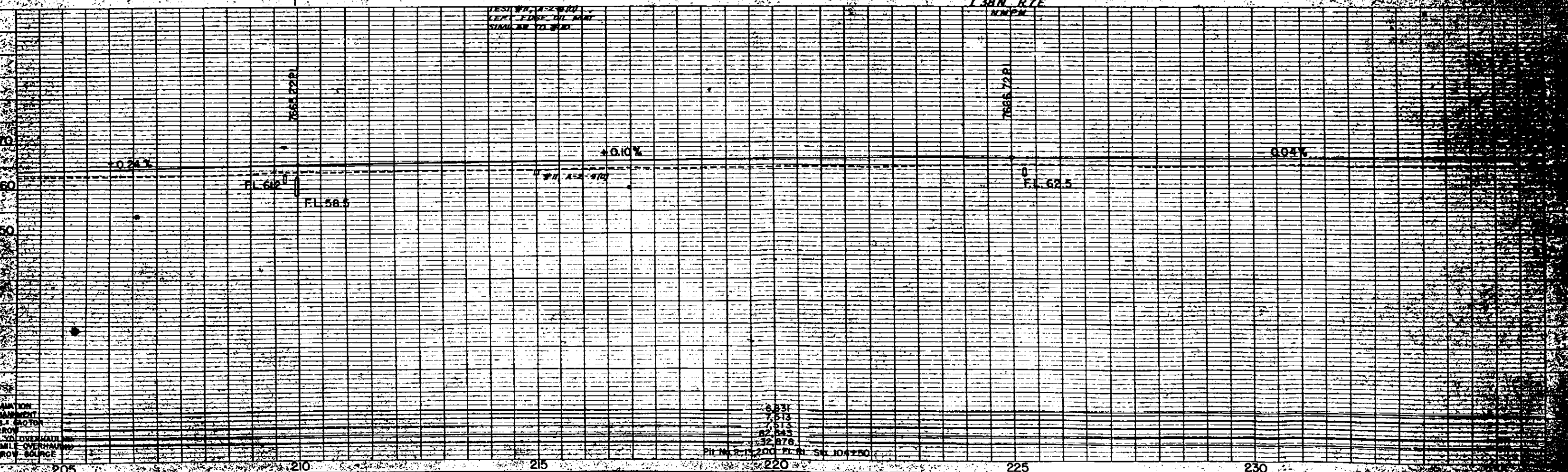
209+10 - Reg'd 24" x 10" Cross Culvert, Inlet & Outlet Ditches (W-1) Remove 18" x 30" C.M.P. & Relay at Sta. 240+55.
209+98 - Reg'd 48" x 50" Cross Culvert with Metal Apron at Inlet. Remove 36" x 33" C.M.P.

210+25 - Reg'd Road Approach, Rt.

225+26 - Reg'd 24" x 14" Cross Culvert. Remove 14" x 43" C.I. Pipe

S.E. 1/4 Sec. 24

N.E. 1/4 Sec. 25
T38N R7E
N.M.P.M.



ANIMATION
BARREMENT
S.F. MOTOR
IRON
3.50 OVERHAUL
MILE OVERHAUL
ROW SOURCE

8.831
7.513
7.513
62.843
32.878
PI N. 2.15 200 PI N. Sta 10+250

205 210 215 220 225 230