

FED. ROAD DIST. NO.	STATE	WPMH PROJ. NO.	WPGH PROJ. NO.	SHEET NO.
3	COLO.	18		1

1800

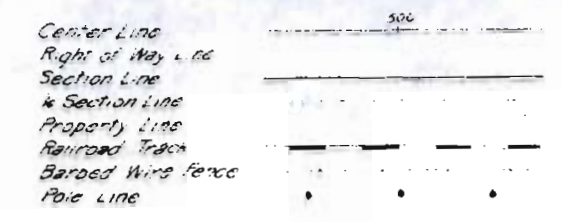
COLORADO STATE HIGHWAY DEPARTMENT

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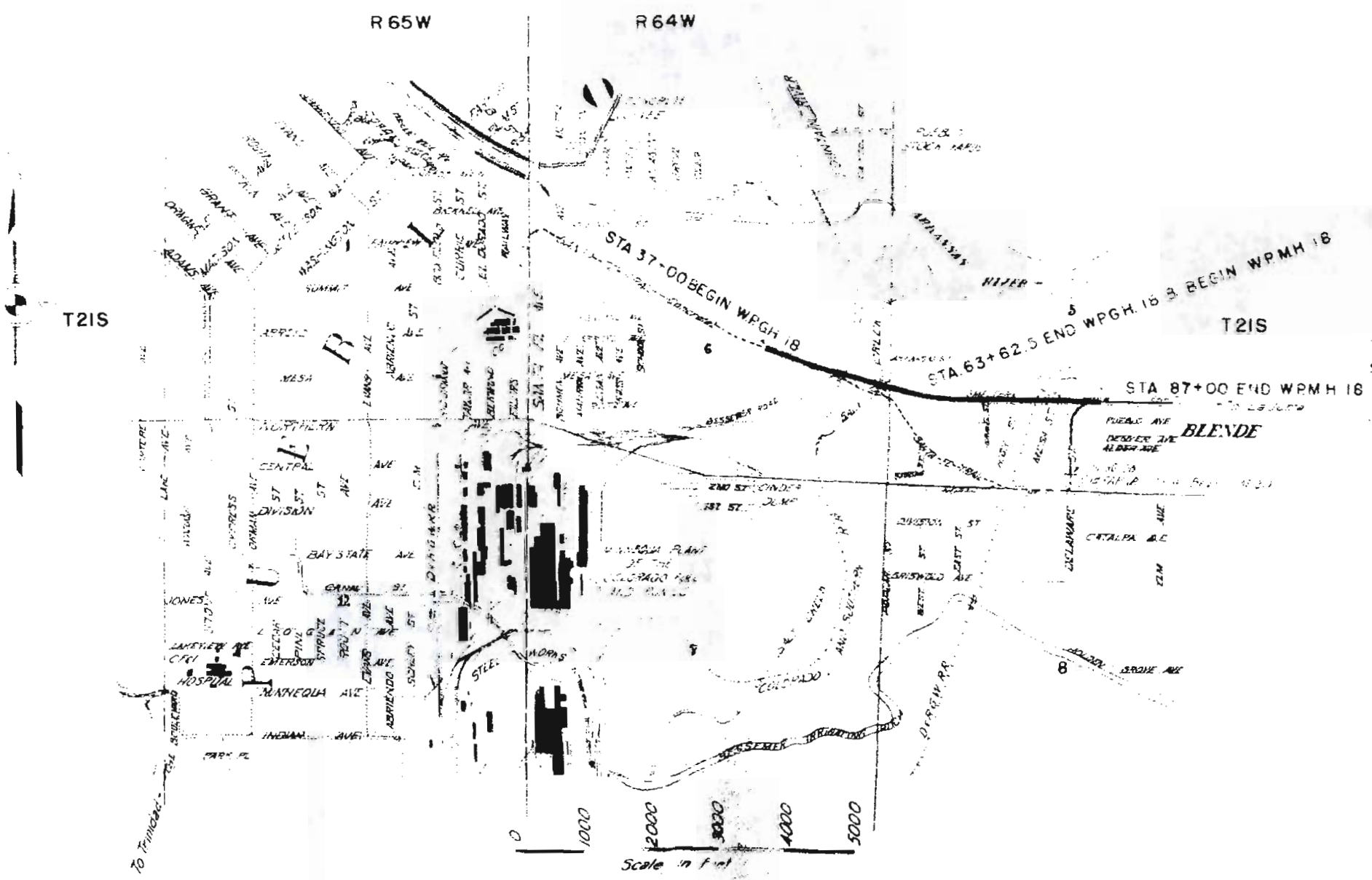
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PLAN AND PROFILE OF PROPOSED U.S. WORKS PROGRAM HIGHWAY PROJECT WPMH. NO. 18 U.S. WORKS PROGRAM GRADE CROSSING PROJECT WPGH. NO. 18 STATE HIGHWAY NO. 6 PUEBLO COUNTY

CONVENTIONAL SIGNS



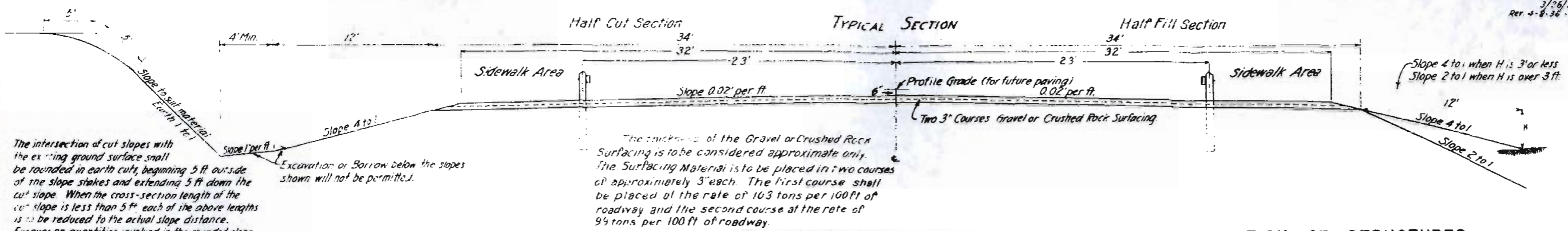
SCALES AS ON ORIGINAL TRACINGS
 ON PLAN 1 IN. = 100 FT.
 ON PROFILE 1 IN. = 100 FT. HORIZONTAL
 1 IN. = 10 FT. VERTICAL
 GRADE LINE ON PROFILE IS SHOWN AS GRADE OF FINISHED ROAD
 GROSS LENGTH OF PROJECT WPGH 2662.5 LIN. FT. = 0.504 MILES
 NET LENGTH OF PROJECT WPMH 2337.2 LIN. FT. = 0.442 MILES



I recommend the pieces of this project go over the railroads with one of the following field representatives of this Dept.
 Charles E. [Name] [Title]
 [Name] [Title]

APPROVED FOR APPROVAL
 [Signature]
 STATE HIGHWAY ENGINEER
 RECOMMENDED FOR APPROVAL
 [Signature]
 DIST. ENG. BUREAU PUBLIC ROADS
 RECOMMENDED FOR APPROVAL
 [Signature]
 CHIEF ENG. BUREAU PUBLIC ROADS
 APPROVED
 [Signature]
 DIRECTOR BUREAU PUBLIC ROADS

TYPICAL CROSS SECTION OF IMPROVEMENT AND SUMMARY OF QUANTITIES



The intersection of cut slopes with the existing ground surface shall be rounded in earth cuts, beginning 5 ft outside of the slope stakes and extending 5 ft down the cut slope. When the cross-section length of the cut slope is less than 5 ft, each of the above lengths is to be reduced to the actual slope distance. Excavation quantities involved in the rounded slope shall not be included in Unclassified Excavation.

The thickness of the Gravel or Crushed Rock Surfacing is to be considered approximate only. The Surfacing Material is to be placed in two courses of approximately 3" each. The first course shall be placed at the rate of 103 tons per 100 ft of roadway and the second course at the rate of 99 tons per 100 ft of roadway.

SUMMARY OF APPROXIMATE QUANTITIES

TABULATION OF STRUCTURES

GENERAL NOTES

This project is to be constructed in conformity with the Standard Specifications of the Colorado State Highway Department adopted August 1, 1935. All quantities on the preliminary plans are to be considered approximate only. All roadway excavation required to construct the project is to be obtained as indicated on the plans. Quantities involved beyond the limits of the side ditches as shown on the typical section, either noted as "Borrow" on the plans or as "Unclassified Excavation" 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 ditches are subject to change by the Engineer to fit embankment requirements actually encountered during construction.

NO.	ITEM	QUANTITIES				Comb. Proj. Total
		W.P.G.H. 18	W.P.M.H. 18	Total		
		Rdway	Bridge	Bridge	Rdway	
10	Clearing & Grubbing Entire Project	Lump Sum	a	b		a+b
11b	Removing 3 Structures					
11c	Removing 1 Structure					
12a	Removing Fence	Lin Ft	170			170
13c	Unclassified Excavation	Cu Yd	132,000	132,000	48,000	186,000
13d	Cut Slope Treatment	Sq Yd	35		10	45
14a	Dry Rock Excavation	Cu Yd	30	10	4.1	30
14b	Dry Common	Sq Yd	7.6	250	145	1700
14c	Wet Rock	Cu Yd	30	10	18.7	30
14d	Wet Common	Cu Yd	30	10	148.5	30
26a	Gravel or Crushed Rock Surfacing	Lin	5,200		5,200	4,730
42a	Untreated Bridge Timber	M. Yds		0.6	0.1	0.2
46a	Class A Concrete	Cu Yd	35	642	321	1,998
47	Reinforcing steel	Lbs	4200	700	225,700	291,200
48	Structural Steel	Lbs	2000	1000	5000	810,500
53b	15" Corrugated Metal Culvert Pipe	Lin	40			30
53c	24"	Lin	40			40
53x	10"	Lin	492			492
60a	Treated Timber Piling	Cu Yd	352	260	8012	8,012
60c	Piling Cutoff Treated	Cu Yd	200	10	210	210
60e	Metal Pile Shoes	Ea	192		192	192
62a	Precast Concrete Piling	Lin Ft		1680	1680	1,680
63a	Rip Rap (1 1/2' in thick)	Cu Yd		1120	1120	1,120
75a	Flexible Metal Plate Guard Fence	Lin Ft	2376		2376	2,376
76c	Barbed Wire Fence With Metal Posts	Lin Ft	1100		1100	1,100
80b	Bronze Name Plates	Ea	1	1	2	2
80c	Sheet Copper	Lbs	355	11	366	366
80x	Sheet Copper 1/4" thick	Lbs	123		123	123
81a	Right of Way Markers	Ea	8		8	8
89b	Drain Pipe (Conc Floor)	Lin Ft		6	6	6
90	Electrical Conduit W. In. Jct. Boxes	Lin Ft	280	575	855	855
97b	18" Manhole Ring & Cover	Ea	6		6	6
11a	Removing Concrete Pavement	Sq Yd			42.5	42.5
15x	Wetting	M. Gal. Hour	6,400		6,400	7,100
15y	Rolling Pits	Hour	600		600	800
	WORK BY FORCE ACCOUNT					
	Removing RR Crossing Sta. 48+	Lump Sum				
	Removing Buildings & Equipment Sta. 50+					
	Moving Telephone Line					
	Moving Power Line					
	Removing Filling Sta., Garage, Equip. Etc. 83+					

STA.	DESCRIPTION	Remove Struct. No.	Excavation Cu Yds	Struct. Excav. Cu Yds	Concrete Cu Yds		Reinforcing Stee. Lbs	Corrugated Metal Pipe			MISCELLANEOUS
					W.P.G.H. 18	W.P.M.H. 18		16"	24"	10"	
	W.P.G.H. 18										
35+7	1.5x1.5x9.8' C.B.C. & Ditch Renewal	1	200	100	28.1		3319				
47+	Rd. Appr. and C.M.P. Side Drain		1250							40	
46+75	Culvert Removal Left	1									
46+40	Remove C.M.P. Culv. on left	1									
48+50	RR Crossing - Lt. Remove		Force Account								RR Crossing
49+70	33+76 Road to Beef Dump		700								230 tons Surfacing
50+00	Removals - Linn. Stand, Fruit		Force Account								
52+50	Stand House, Filling Sta., Equipment		Force Account								
55+30	58+100 Channel Change Rt.		500								
56+00	Detour		500								
57+75	Rd. Appr. & Outlet Ditch Left		1000	3000							200 tons Surfacing
49+33	2 Pavement Drains				55	2	260				40 2" Manhole Rings & Covers
52+72	3 Pavement Drains				70	2	280				150 2"
53+67	2 Pavement Drains				70	2	280				200 2"
47+80	to 49+30.5 - Overpass		See Summary for Quantities								
52+75	to 55+78.7 - Bridge										
53+40	Road Approach & Side Drain		3000							40	100 tons Surfacing
58+30			4000								200 tons Surfacing
	W.P.M.H. 18										
67+60	4x4x104' C.B.C., Inlet		20		60	74.5	6433				
75+00	Appr. C.M.P. Side Drain Rt.		400		5					30	
75+50	2x2x82' C.B.C., Inlet		40		75	30.5	3218				
78+10	RR Crossing (To Be Built By RR Co. Forces)										
80+00	2x2x52' C.B.C., Inlet		50		50	33.2	3556				
82+90	Rd. Appr. Rt.		700								
83+00	Removals - Tanks, Pumping Pipe		Force Account								
to 86+00	Line, Garage, Filling Sta. & Equipment		Force Account								
85+00	to 87+00 Remove Conc Pavement										42.5 sq yds Pavement Removal
88+30	2x2x72' C.B.C., Ditches, Removal	1	50		50	27.3	2676				
	TOTALS	W.P.M.H. 18	1	160	1130	240	1634	6,087	36		
		W.P.G.H. 18	3	6400	3,500	295	34.1	4,159	40	40	492, 6-18" Manhole Rings & Covers

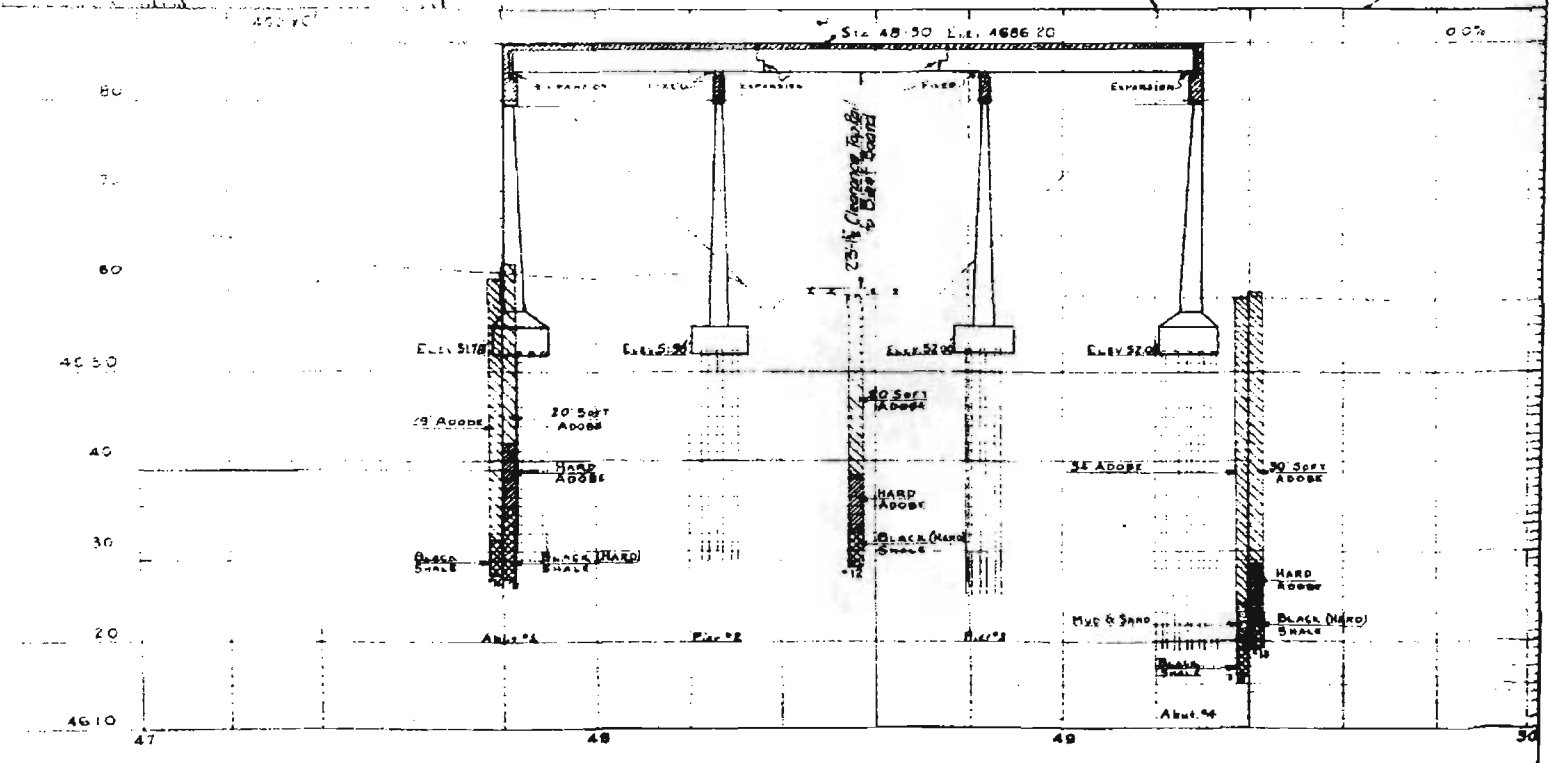
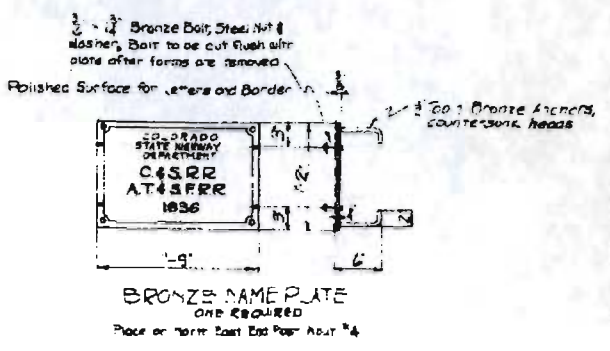
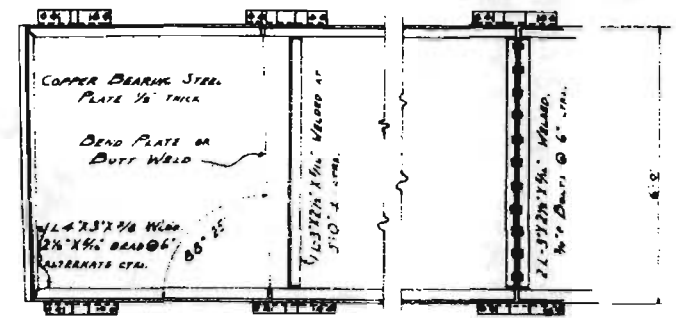
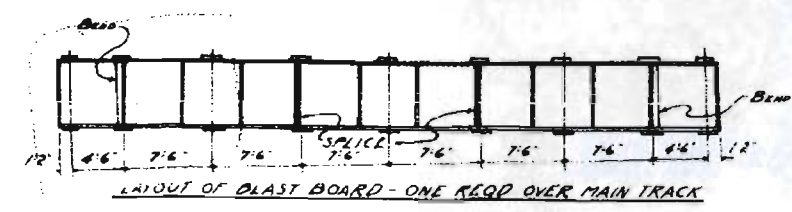
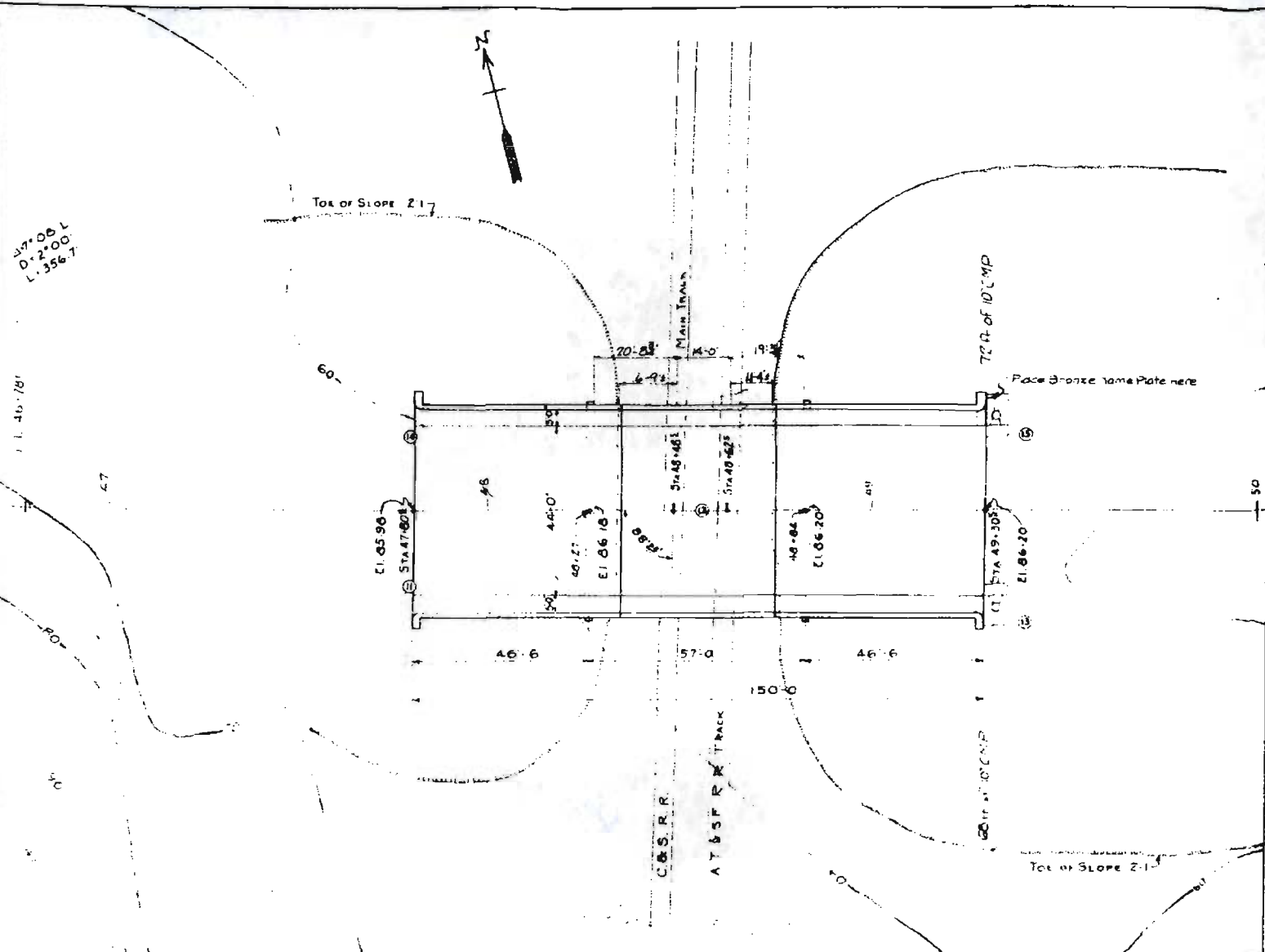
* Struct. Excav. is estimated to be 10% dry rock, 10% wet rock, 10% wet common and 70% dry common.
 * Included for payment in Excavation Quantities

BARBED WIRE & GUARD FENCE REQUIREMENTS

Location	Kind	Side	Remove	Build
42+70 to 50+40	Remove Fence	Right	170	
37+00 to 48+00	Barbed Wire Fence With Metal Posts	Left		1100
	Totals		170	1100
38+50 to 47+76	Flexible Metal Plate Guard Fence	Left		328
Back from 47+76		Right		178
44+37 to 50+65		Left		332
49+37 to 52+69		Right		332
55+83 to 57+49 + 212'		Left		378
57+93 to 58+11		Right		228
	Total Guard Fence			2376

R.O.W. MARKERS

Station	Side	Number
37+00	L. & R.	2
48+00	Rt.	1
47+76	Rt.	1
49+40	Lt.	2
50+65	Rt.	2
Total For W.P.G.H. 18		8
70+45	Lt & Rt	4
82+50	Lt & Rt	2
83+20	Lt & Rt	2
Total For W.P.M.H. 18		8



SUMMARY OF QUANTITIES						
ITEM	DESCRIPTION	UNIT	SUPERSTRUCTURE	ABUTS. #1 & #4	PIERS #2 & #3	TOTAL
14 b	DRY COMMON EXCAVATION	Cu Yd		460	290	750
14 d	WET COMMON EXCAVATION	Cu Yd		5	5	10
42 a	UNTREATED BRIDGE TIMBER	MFT. BM.	0526			0526
46 a	CLASS 'A' CONCRETE	Cu Yd	232	258	152	642
47	REINFORCING STEEL (MULTIPLE)	Lb.	44820	23800	18060	86680
48	STRUCTURAL STEEL (MULTIPLE)	Lb.	189380	190	430	190000
60 a	TREATED TIMBER PILING	LIN. FT.		3480	1872	5352
60 c	PILING CUT-OFF TREATED	LIN. FT.		125	75	200
60 e	METAL PILE SHOES	EACH		120	72	192
80 c	SHEET COPPER @ 38 OZ./SQ. FT.	Lb.	355			355
80 d	BRONZE NAME PLATE	EACH		1		1
80 x	SHEET COPPER (1/2 THICK)	Lb.	123			123
	EXPANSION JOINT MTL. (3/4 x 1/2)	LIN. FT.	184			184
	EXPANSION JOINT MTL. (3/4 x 5)	LIN. FT.	44			44
90	1/2" ELECT. CONDUIT WITH JUNCT. BOXES	LIN. FT.	280			280

* Includes 3090 lbs of copper bearing steel for blast board

REFERENCE DRAWINGS
SHEET No. 4 DETAILS OF SUPERSTRUCTURE
SHEET No. 5 DETAILS OF ABUTMENTS AND PIERS

GENERAL NOTES

ALL WORK SHALL BE DONE ACCORDING TO THE STANDARD SPECIFICATIONS OF THE COLORADO STATE HIGHWAY DEPARTMENT

ALL CONCRETE SHALL BE CLASS 'A'

FORMS FOR CONCRETE SURFACES EXPOSED IN THE FINISHED WORK SHALL BE CONSTRUCTED OF SHIP LAP OR TONGUE AND GROOVE LUMBER 2" UNLESS FACED WITH PANEL BOARD.

CONCRETE CURBS, FLOOR SLABS AND CURB SHALL BE POURED MONOLITHICALLY

FOOTINGS IN ROCK SHALL BE POURED OUT TO THE ROCK AND NOT FORMED

ALL REINFORCING BARS SHALL BE DEFORMED AND TAGGED WITH THE STATION NUMBER AND LETTER DESIGNATION. MAIN BARS SHALL NOT BE SPLICED

ROUNDINGS AND DEPTH OF FOOTINGS SHOWN ARE ACCORDING TO THE BEST AVAILABLE DATA. IF ESSENTIALLY DIFFERENT CONDITIONS ARE ENCOUNTERED THE BRIDGE ENGINEER WILL INSPECT AND DETERMINE IF REDESIGN IS NECESSARY.

ALL RIVETS ARE 3/4" DIAMETER. ALL FIELD RIVETS TO BE POWER DRIVEN.

FOR DRIVING ALL THE PILING THE STEAM HAMMER SHALL DEVELOP AT EACH FULL STROKE AN ENERGY OF NOT LESS THAN 15000 FOOT POUNDS FOR EACH FULL STROKE OF PISTON.

A DROP HAMMER SHALL NOT BE USED. FIXED LEADS REQUIRED.

LOADING DATA

LIVE LOAD: 4 A.S.H.C. ALL 1922 CLASS A

DEAD LOAD: 150 LBS/SQ. YD. ALL 1922

ADDITIONAL DEAD LOAD: 150 LBS/SQ. YD. ALL 1922

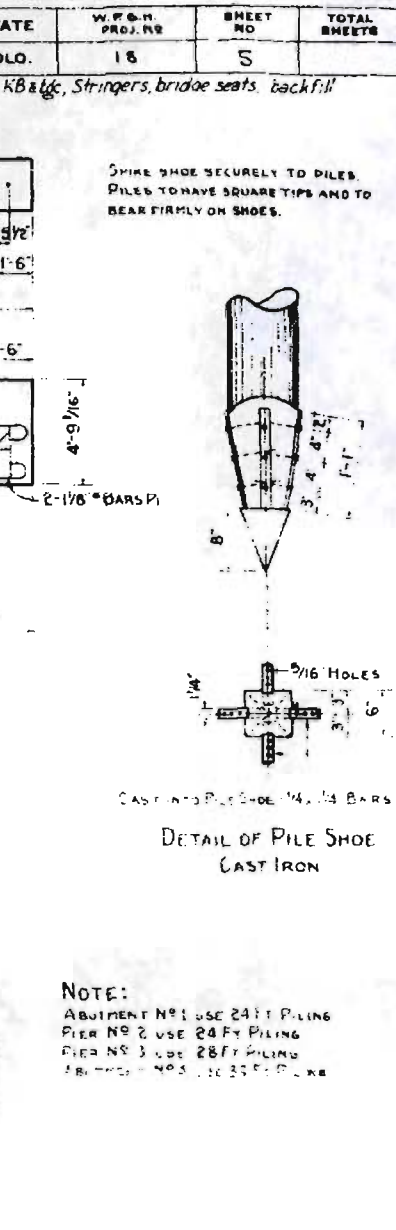
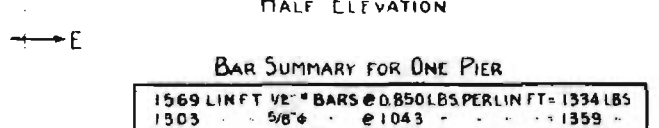
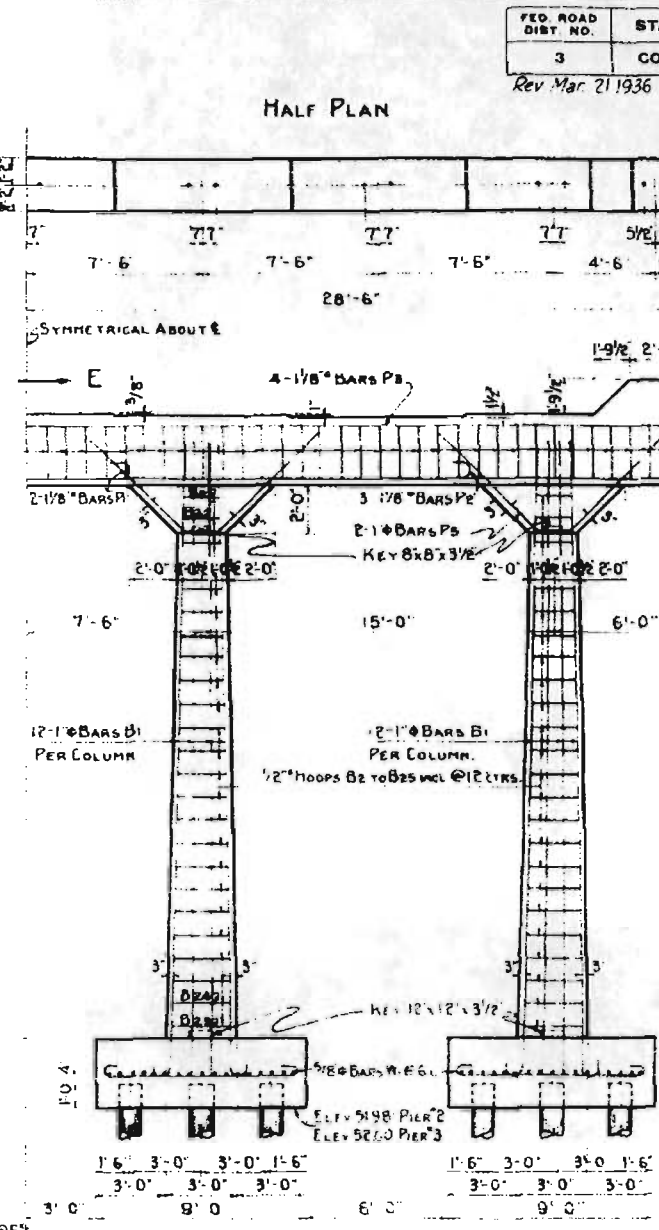
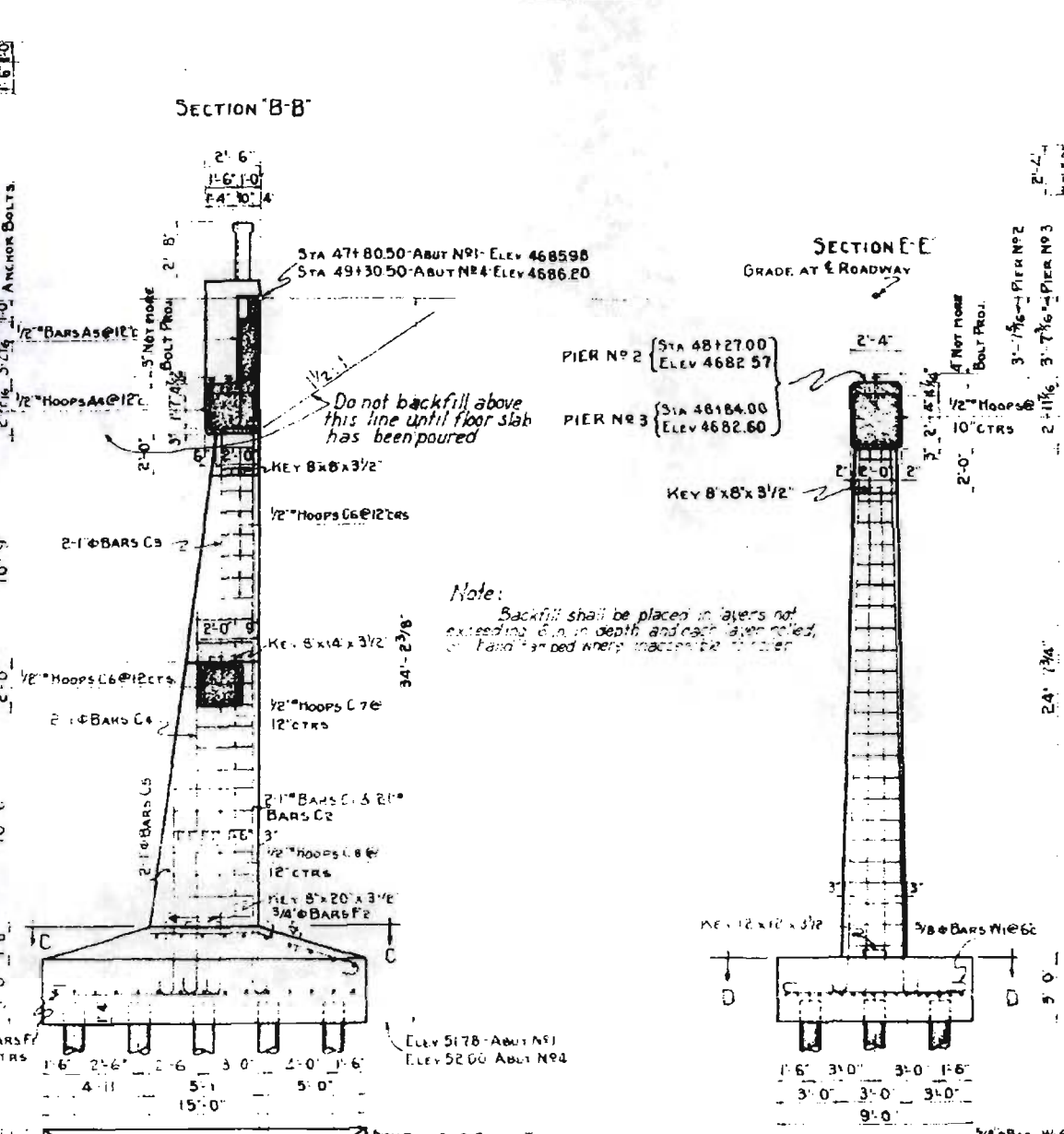
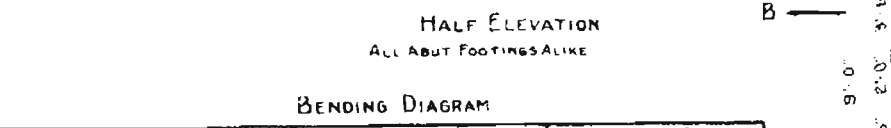
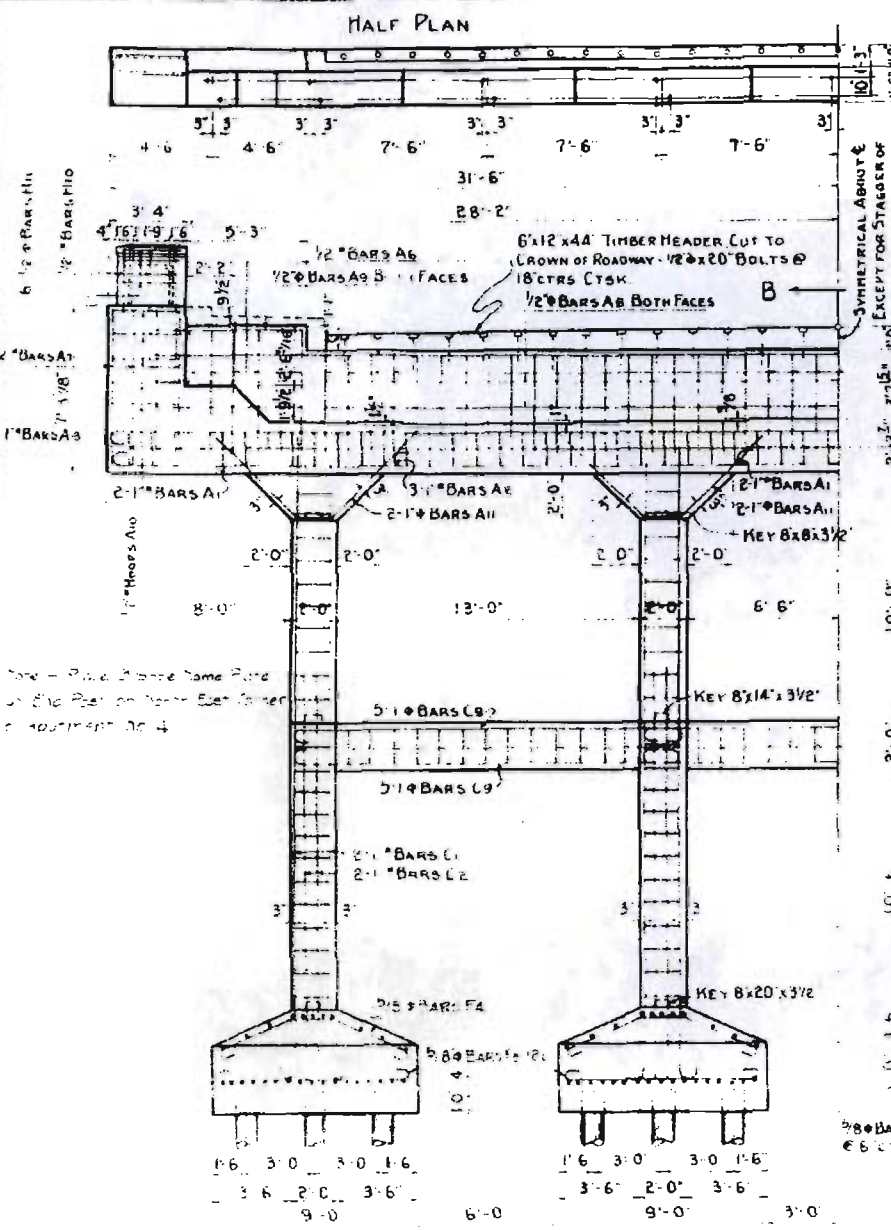
STRESSES IN CONCRETE AS PER 1922 SPECIFICATIONS.

COLORADO STATE HIGHWAY DEPARTMENT

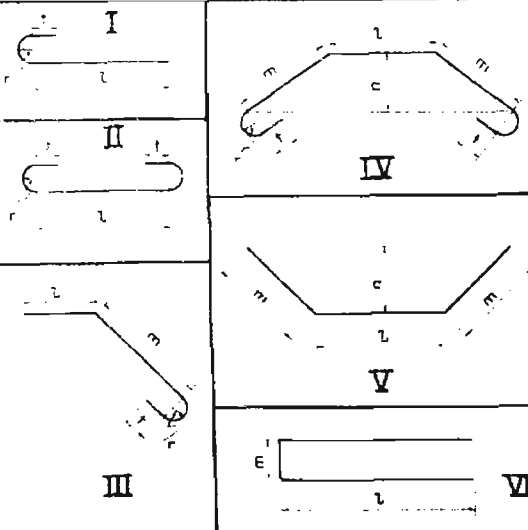
GENERAL LAYOUT, SUMMARY OF QUANTITIES, & BLAST PLATE DETAIL

DESIGNED BY K.B. Made by W.T.S. Bridge Engineer

CHECKED BY G.M. DATE: FEB 6, 1936



NOTE:
 ABUTMENT NO. 1 USE 24 FT PILING
 PIER NO. 2 USE 24 FT PILING
 PIER NO. 3 USE 28 FT PILING
 ABUTMENT NO. 4 USE 35 FT PILING



MARK	SIZE	N REQ	LENGTH	TYPE	l	m	n	r	t	W.H.L.
A1	1"	4	37'-8"	II	35'-0"					
A2	1"	3	40'-0"	I	37'-4"					
A3	1"	12	34'-4"	I	35'-0"					
A4	1/2"	62	8'-8"	VI	11'-8"	2'-1/2"				
A5	1/2"	45	10'-3"	VII	4'-10"					
A6	1/2"	12	12'-5"	VII	5'-11"					
A7	1/2"	8	15'-5"	VIII	6'-6"					
A8	1/2"	12	30'-3"							
A9	1/2"	4	6'-6"							
A10	1/2"	10	11'-0"	VI	3'-0"	2'-0"				
A11	1"	8	11'-8"	VI	1'-8"	5'-0"	3'-6"			
C1	1"	8	29'-0"	I	27'-8"					
C2	1"	8	19'-4"	I	18'-0"					
C3	1"	8	29'-0"	I	27'-8"					
C4	1"	8	18'-10"	I	17'-6"					

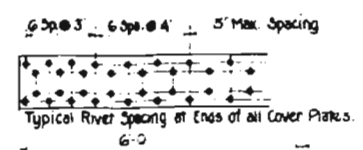
MARK	SIZE	N REQ	LENGTH	TYPE	l	m	r	t	n	W.H.L.
W1	3/8"	136	9'-7"	II	7'-11"					
B1	1"	48	29'-6"	I	28'-2"					
B2	1"	8	7'-6"	I	11'-4"					
B2b	1/2"	4 EACH	to 11'-4"	VI	to 2'-7"					
P1	1 1/8"	4	35'-0"	II	32'-0"					
P2	1 1/8"	3	40'-0"	II	37'-0"					
P3	1 1/8"	8	31'-8"	I	30'-2"					
P4	1"	67	9'-11"	VI	8'-5 1/2"					
P5	1"	8	11'-9"	V	10'-5'-0"					5'-6"

LOADING DATA:
 LIVE LOAD AASHTO 1935 CLASS A
 DEAD LOAD ASSUMES 16 LBS PER SQ FT
 ADDITIONAL WEARING SURFACE WHICH INCLUDES THE
 4 IN CONCRETE MONOLITHIC WEARING SURFACE SHOWN
 STRESSES IN CONCRETE AS PER 1935 SPECIFICATIONS

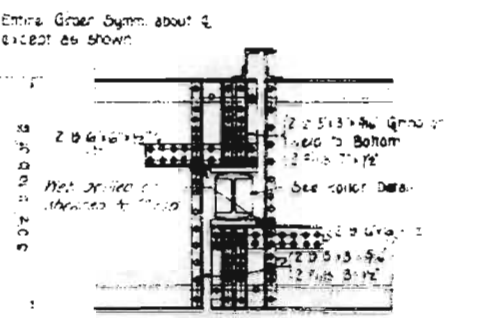
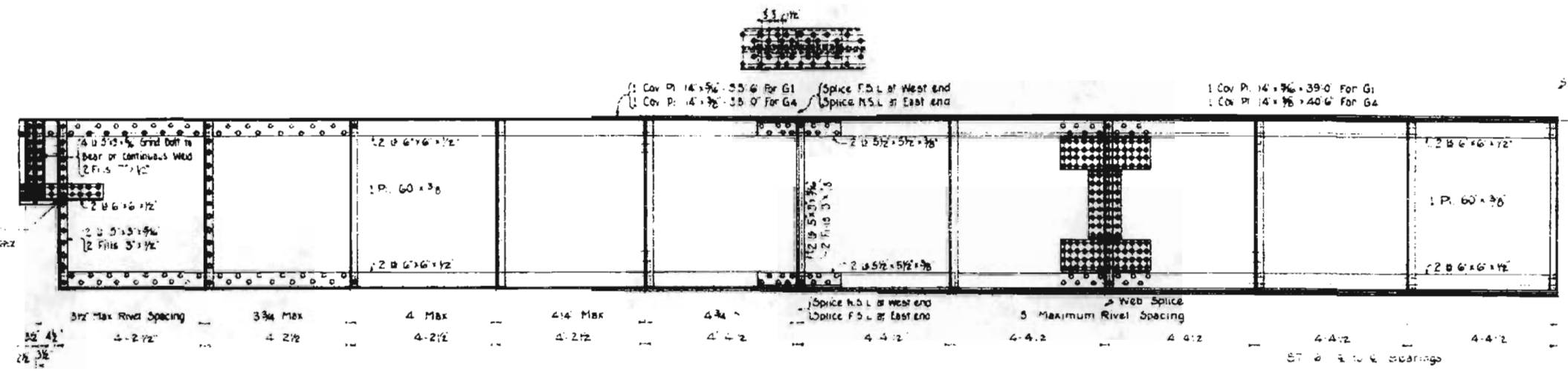
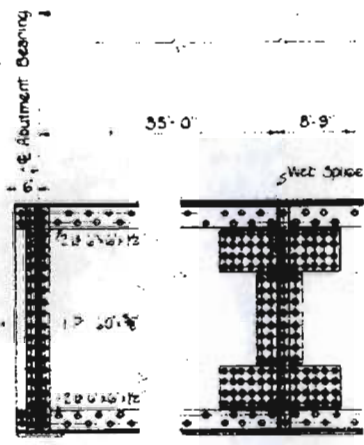
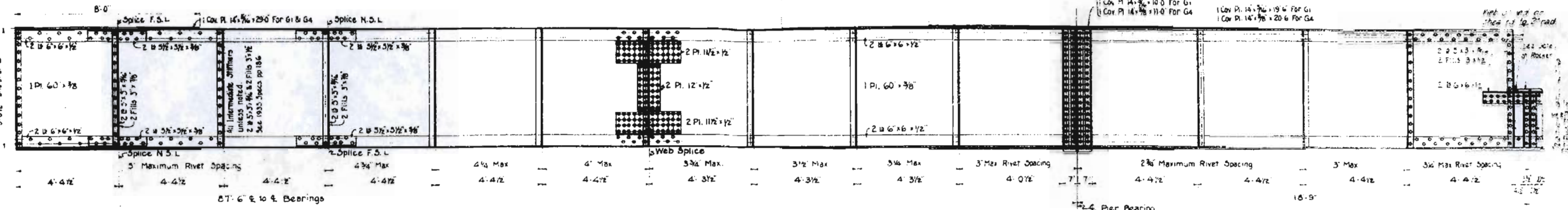
COLORADO
 STATE HIGHWAY DEPARTMENT
 ABUTMENTS AND PIERS FOR
 OVERPASS
 Across COLORADO SOUTHERN RAILWAY
 Sta. 47+80.50 to 49+30.50
 Near PUEBLO Sec. 6 T.21S. R.64 W.

Designed by K.B. Made by J.D.B. Check Design Check Detail W.C.C. Approved by [Signature] Bridge Engineer Date: Feb 6, 1936

FED. ROAD DIST. NO.	STATE	W.P.G.R. PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	18	8	



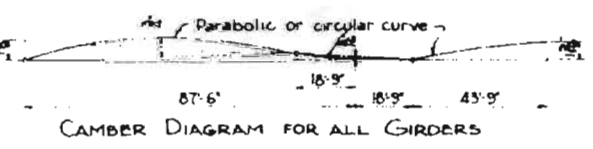
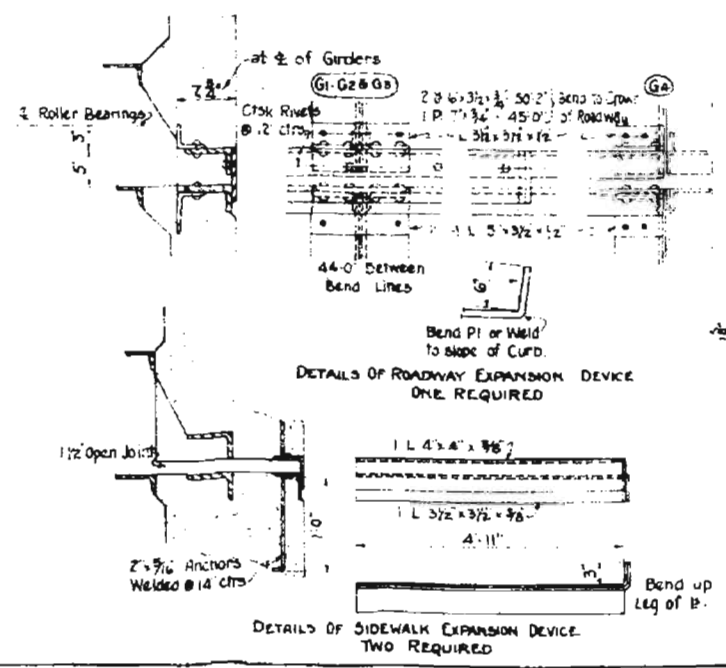
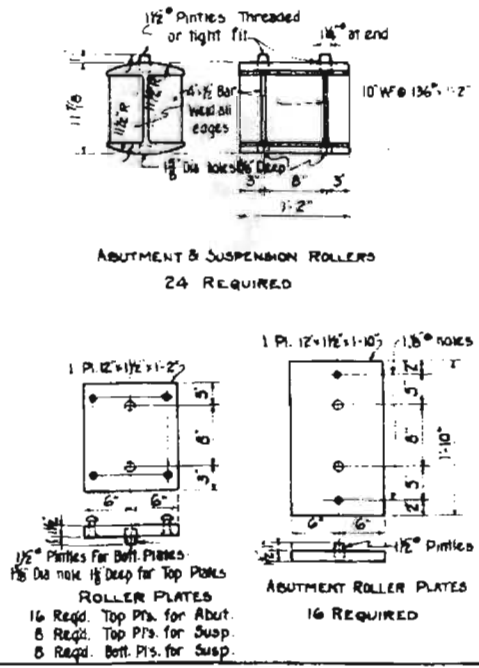
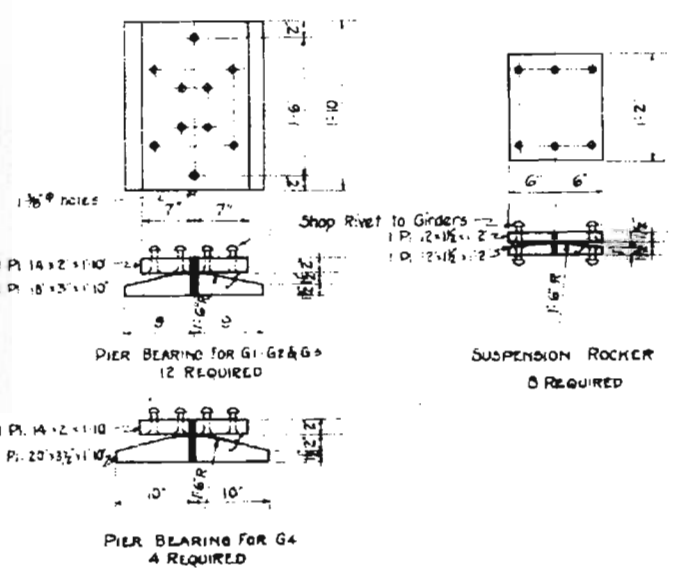
Portion of Girder between Abut & Pier Symm about \bar{x} except as shown.



2 GIRDERS REQ'D AS NOTED
 MARK G1
 G2) Angle except for Holes
 G3) for Diaphragm Connections
 G4)
 G4)
 Opp Hand to G4)
 Each girder consists of 3 pieces and has a total length of 230'-0" & 1/2" to bearings

FURNISH
 32 Anchor Bolts 1 7/8" x 8" Hex Nuts - Abutments
 16 Anchor Bolts 1 1/4" x 5/2" Hex Nuts - Suspension Spans
 32 Anchor Bolts 1 1/4" x 2" Hex Nuts - Piers

NOTES FOR BEARINGS
 Top and bottom plates may be annealed or cast in place on grade site.
 Rollers may be Annealed Cast Steel or Structural Grade steel.
 Steel Plates not requiring painting are to be finished by pressing.



REFERENCE DRAWINGS
 Sheet No. 6 General Layout & Summary of Quantities
 Sheet No. 7 Detail of Superstructure & Bar List
 Sheet No. 9 Detail of Abutments Bar List
 Sheet No. 10 Detail of Piers & Bar Lists
 LOADING DATA
 LIVE LOAD A.A.S.H.O. AUG. 1955 CLASS A 110
 DEAD LOAD ASSUMES 17 LBS PER SQ FT
 ADDITIONAL WEARING SURFACE 1/4" IN. INCLUDES 1/4" IN. CONCRETE MONOTONIC WEAR SURFACE SHOWN
 STRESSES IN CONCRETE AS PER 928 SPMS

COLORADO STATE HIGHWAY DEPARTMENT
 DETAIL OF GIRDERS

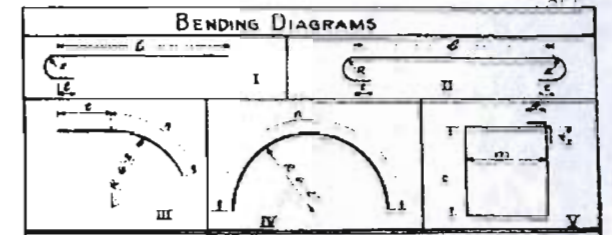
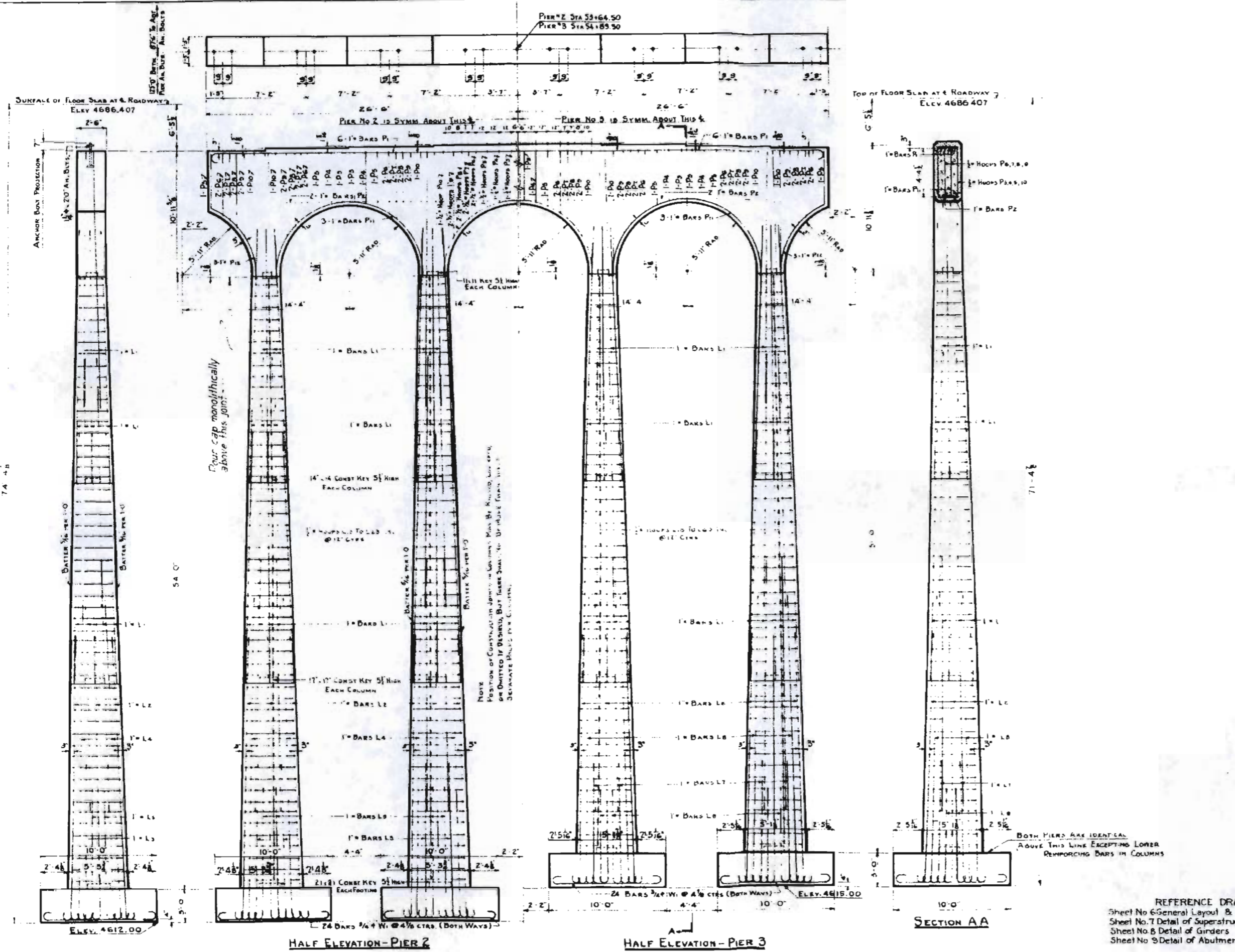
Address SALT GREEN
 Sta. 22+53.3 to 55+78.67
 Near PUEBLO Sec. 6 T. 2 S. R. 64 W.

Designed by K.B.
 Made by P.F.
 Check Design
 Check Detail: W.H.

Approved by [Signature]
 Bridge Engineer
 Date: Feb 22 1936

FED. ROAD DIST. NO.	STATE	W.P.G.H.	SHEET NO.	TOTAL SHEETS
3	COLO.	No 18	10	

Rev 3-21-36 Lf. Cap pour note



BAR LIST FOR PIER NO 2

MARK	SIZE	NO REQS	LENGTH	TYPE	L	M	N	P	Q
L1	1"	160	22.2'	I					
L2	1"	32	25.10'	I	24.6'				4 3/4"
L3	1"	32	14.6'	I	18.2'				4 3/4"
L4	1"	32	29.4'	I	28.0'				4 3/4"
L5	1"	32	12.4'	I	11.0'				4 3/4"
L10			9-3/8"			2 1/4"	2 1/4"		
L11			20-4"	V		4 1/2"	4 1/2"		
L12			34-6"	II	51-0"				
P1	1"	2	40-0"						
P2	1"	6	13-7"	V		2 1/4"	4 6"		
P3	1"	6	14-3"	V		2 1/4"	4 8"		
P4	1"	8	3-0"	V		2 1/4"	5 0 1/2"		
P5	1"	16	14-6"	V		1 4"	5 7"		
P6	1"	16	15-5"	V		1 4"	6 0 1/2"		
P7	1"	16	16-7"	V		1 4"	6 7 1/2"		
P8	1"	16	18-5"	V		1 4"	7 6 1/2"		
P9	1"	8	26-5"	V		2 1/4"	10 8"		
P10	1"	5	19-8"	IV				7 4"	2 3/4"
P11	1"	6	10-4"	II					5 2 1/2"
P12	1"	192	10-10"	II	8-10"				

BAR SUMMARY FOR PIER 2
 6017 Lin Ft in Bars @ 340 Lbs Per Ft = 2,051,600 Lbs
 2080 3/4" = 502 3/4" = 3,24
 4751 1/2" = 850 1/2" = 4,221
 Plus 10% For Overrun = 303
TOTAL 30650 Lbs

BAR LIST FOR PIER NO 3

MARK	SIZE	NO REQS	LENGTH	TYPE	L	M	N	P	Q
L1	1"	160	22.2'	I					
L2	1"	32	22.10'	I	21.6'				4 3/4"
L3	1"	32	11.50'	I	10.2'				4 3/4"
L4	1"	32	26.4'	I	25.0'				4 3/4"
L5	1"	32	9-4"	I	8-0"				4 3/4"
L10			9-3/8"			2 1/4"	2 1/4"		
L11			19-8 1/2"	V		4 1/2"	4 1/2"		
L12			21"						
P1	1"	6	34-6"	II	51-0"				4 3/4"
P2	1"	2	40-0"						
P3	1"	6	13-7"	V		2 1/4"	4 6"		
P4	1"	6	14-3"	V		2 1/4"	4 8"		
P5	1"	8	3-0"	V		2 1/4"	5 0 1/2"		
P6	1"	16	14-6"	V		1 4"	5 7"		
P7	1"	16	15-5"	V		1 4"	6 0 1/2"		
P8	1"	16	16-7"	V		1 4"	6 7 1/2"		
P9	1"	16	18-5"	V		1 4"	7 6 1/2"		
P10	1"	8	26-5"	V		2 1/4"	10 8"		
P11	1"	5	19-8"	IV				7 4"	2 3/4"
P12	1"	6	10-4"	II					5 2 1/2"
P13	1"	192	10-10"	II	8-10"				

BAR SUMMARY FOR PIER 3
 6433 Lin Ft in Bars @ 340 Lbs Per Ft = 2,187,240 Lbs
 2080 3/4" = 502 3/4" = 3,24
 4486 1/2" = 850 1/2" = 4,221
 Plus 10% For Overrun = 292
TOTAL 29110 Lbs

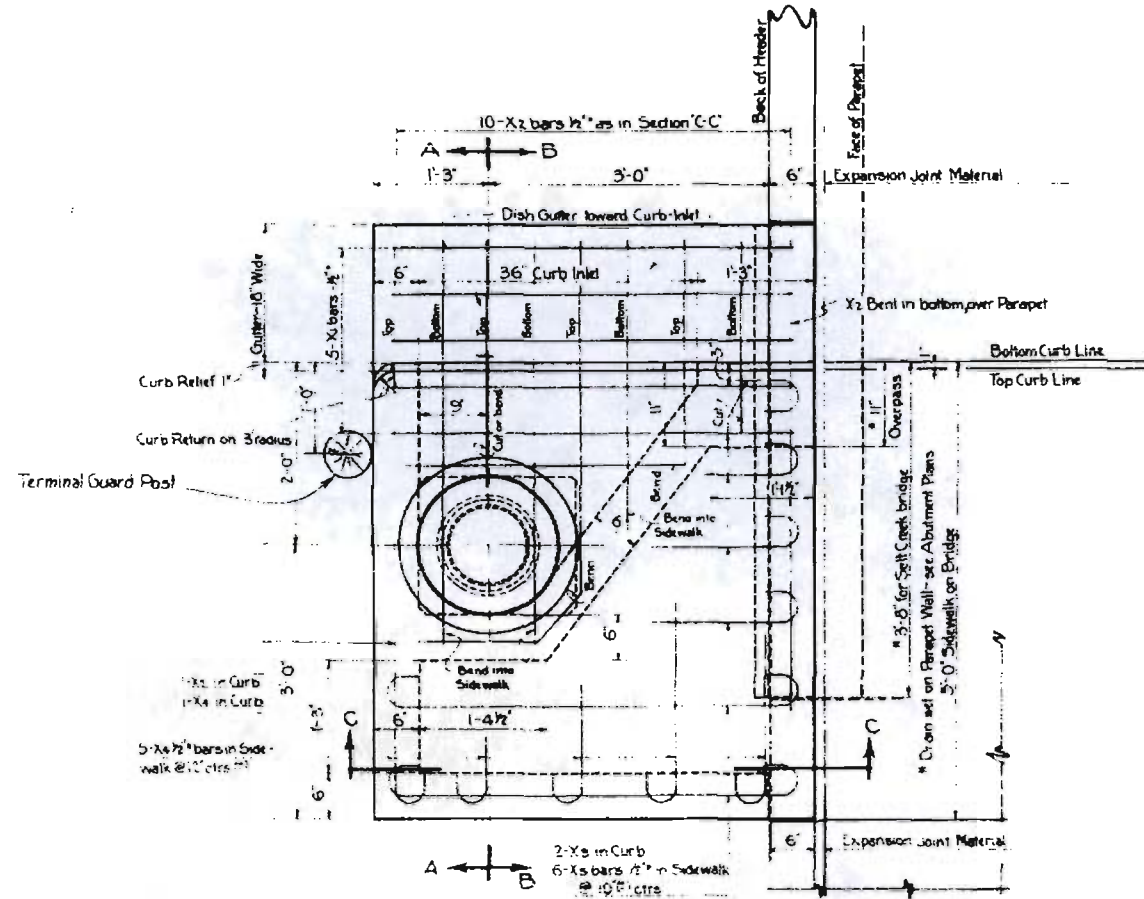
COLORADO STATE HIGHWAY DEPARTMENT
 DETAIL OF
 PIERS NO 2 & NO 3
 Across SALT CREEK
 Sta. 52+75.55 to 55+76.67
 Near Pueblo Sec. 6 T. 21S. R. 64W

Designed by KB
 Made by WTS
 Check Design
 Check Detail WTS

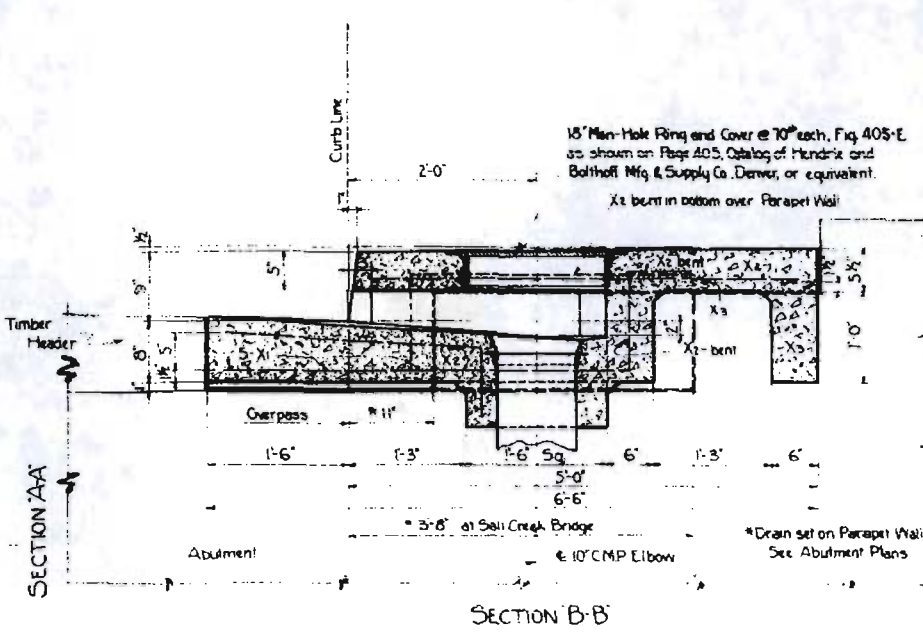
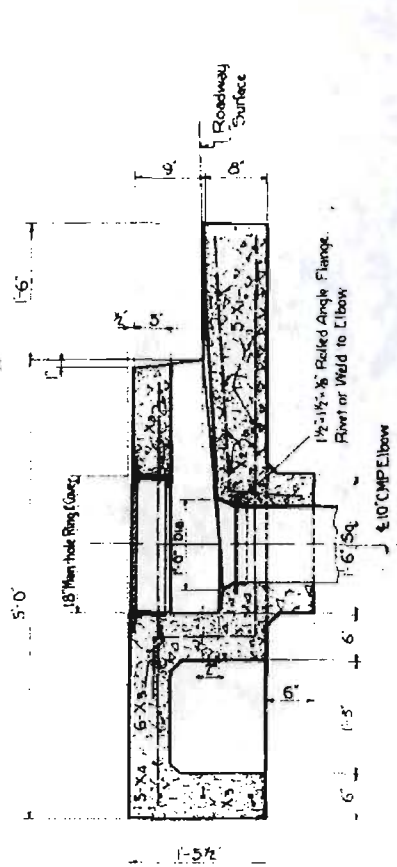
Approved by [Signature]
 Bridge Engineer
 Date: 7/22/1986

REFERENCE DRAWINGS
 Sheet No. 6 General Layout & Summary of Quantities
 Sheet No. 7 Detail of Superstructure & Bar List
 Sheet No. 8 Detail of Girders
 Sheet No. 9 Detail of Abutments, Bar List.

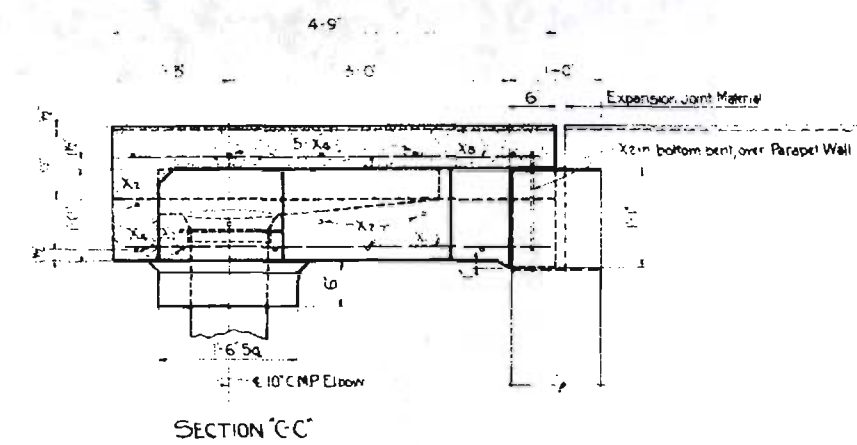
FED. ROAD DIST. NO.	STATE	W.P.M. Proj. No.	SHEET NO.	TOTAL SHEETS
3	COLO.	18	11	



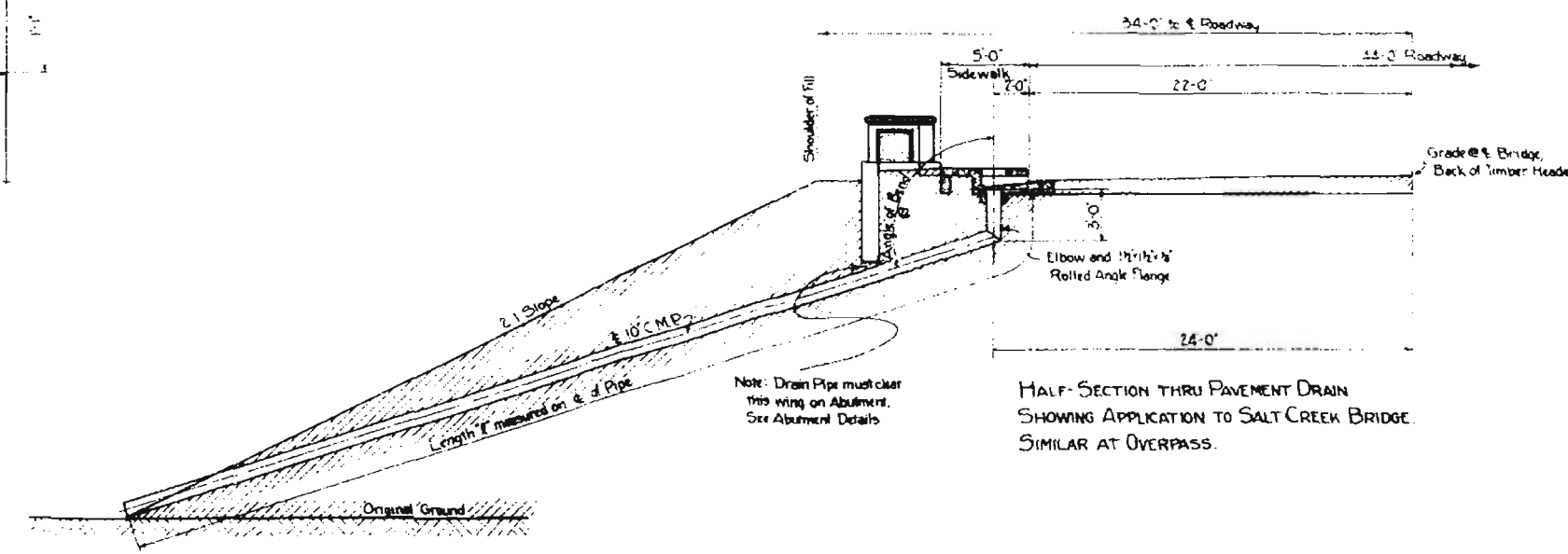
PLAN



SECTION B-B



SECTION C-C



HALF SECTION THRU PAVEMENT DRAIN SHOWING APPLICATION TO SALT CREEK BRIDGE. SIMILAR AT OVERPASS.

LENGTHS OF OUTFALL PIPES AND ANGLES OF BENDS

STATION	SIDE	LENGTH	ANGLE OF BEND - B
49+33.5	L	72	110°
49+33.5	R	68	110°
52+72.33	L	78	110°
52+72.33	R	72	110°
55+81.66	L	112	113°
55+81.66	R	90	112°

Total of 10" CMP Outfalls: 492 Linft
 Elbows and Connecting Bands if required, shall be included in the price per lin ft. bid for 10" Corrugated Metal Pipe. The 1 1/2" x 1/2" Rolled Angle Flange may be either welded or riveted to Elbow.

SUMMARY OF QUANTITIES FOR SIX DRAINS

ITEM	DESCRIPTION	UNIT	Sta. 49+33.5	Sta. 55+81.66	TOTAL
14B	Ord. Common Excavation (5M)	Cu Yds	55	140	95
46a	Class A Concrete	Yds	2	4	6
47	Reinforcing Steel	Lb	280	560	840
53x	10" Corrugated Metal Pipe	Linft	140	352	492
97E	Cast Iron Manhole Ring & Cover	Each	2	4	6

Bar List and Summary for One Drain

Mark	Size	No. Reqd.	Length	Bending Diagram
X1	1/2"	5	4'-5"	Straight
X2	1/2"	10	6'-0"	Field cut or bend
X3	1/2"	6	5'-5"	4'-1"
X4	1/2"	6	5'-7"	4'-3"

159 lin ft. 1/2" bars @ 0.85 per lin ft. = 135 Lbs.
 Plus 1% for Over-run = 5 Lbs.
 Total = 140 Lbs.

GENERAL NOTES
 All work to be done in accordance with the Standard Specifications of the State Highway Department, adopted Aug. 1, 1935.
 All Concrete to be Class A.
 All Reinforcing Steel to be deformed.

LOADING DATA
 LIVE LOAD A.A.S.H.O. AUG. 1920, CLASS A
 DEAD LOAD ASSUMED 5 LBS. PER SQ. FT.
 ADDITIONAL WEARING SURFACE WHICH INCLUDES THE 4 IN. CONCRETE MONOLITHIC WEARING SURFACE SHOWN

COLORADO STATE HIGHWAY DEPARTMENT
 SPECIAL PAVING DRAINS

Address: Sta. 49+52+55+
 Near PUEBLO Sec. 6 T.21S. R. 64 W.

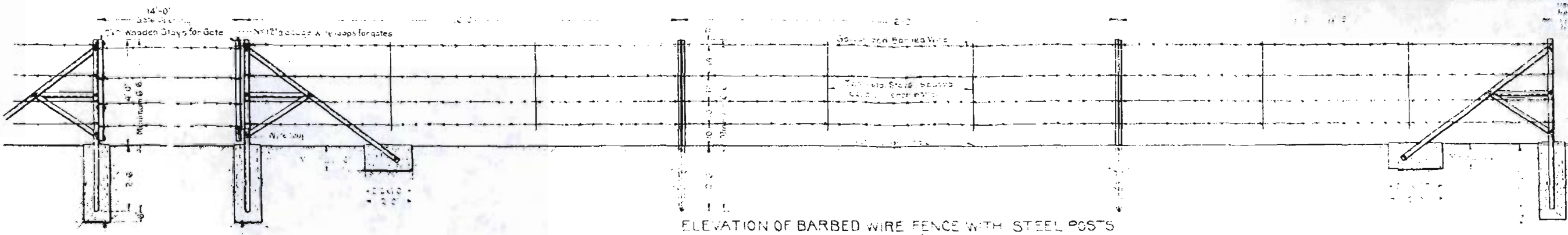
Designed by WCC
 Made by WCC
 Check Design WHL
 Check Detail WHL

Approved by R. L. Bailey
 Bridge Engineer
 Date: Feb 25, 1936.

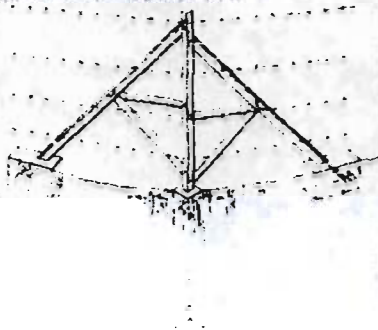
STANDARD M-27-A

FED ROAD DIST. No.	STATE	PROJECT No.	SHEET No.	TOTAL SHEETS
3	COLORADO	16	14	

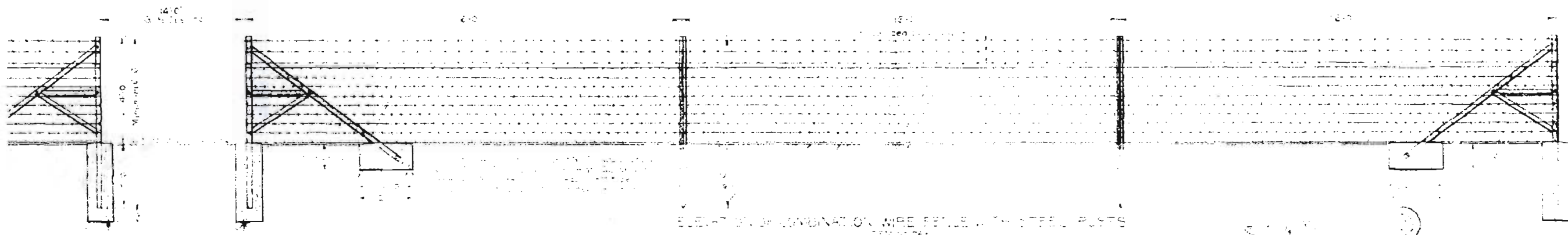
Revised 4-23-33 A.G.W. Changed notes for gate and B corner post.
 Applied 7-24-33 A.G.W. New R.O.S. Markings.
 Applied 4-21-34 A.G.W. New R.O.S. Markings.
 Applied 1-10-35 A.G.W. New R.O.S. Markings.



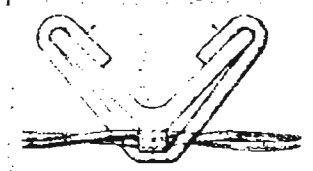
ELEVATION OF BARBED WIRE FENCE WITH STEEL POSTS
TENNY 76c



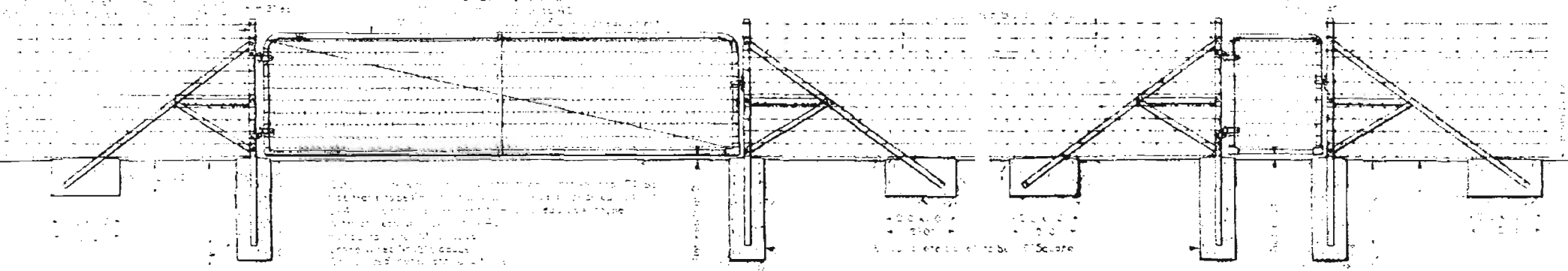
CORNER POST



ELEVATION OF COMBINATION WIRE FENCE WITH STEEL POSTS
TENNY 76c



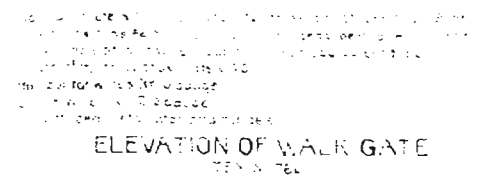
THE SECTION THROUGH THE WIRE FENCE



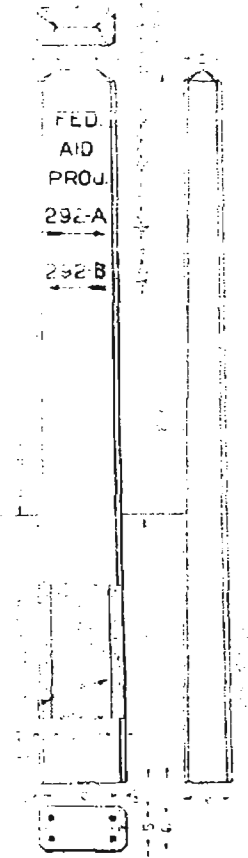
ELEVATION OF DRIVEWAY GATE
TENNY 76c

GENERAL NOTES FOR WIRE FENCES

1. This standard is based on the use of steel posts and wooden stays for gates.
 2. The posts shall be 4" x 4" square steel pipe or equivalent.
 3. The stays shall be 4" x 4" square wood.
 4. The wire shall be galvanized steel.
 5. The fence shall be 12" high above the ground.
 6. The fence shall be 12" high above the ground.
 7. The fence shall be 12" high above the ground.
 8. The fence shall be 12" high above the ground.
 9. The fence shall be 12" high above the ground.
 10. The fence shall be 12" high above the ground.



ELEVATION OF WALK GATE
TENNY 76c

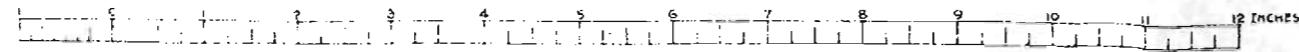


PROJECT MARKER POST
TENNY 81a



RIGHT OF WAY MARKER POST
TENNY 81b

COLORADO
 STATE HIGHWAY DEPARTMENT
 MARSHFIELD, COLO.
 DESIGNED BY: [Signature]
 DRAWN BY: [Signature]
 CHECKED BY: [Signature]

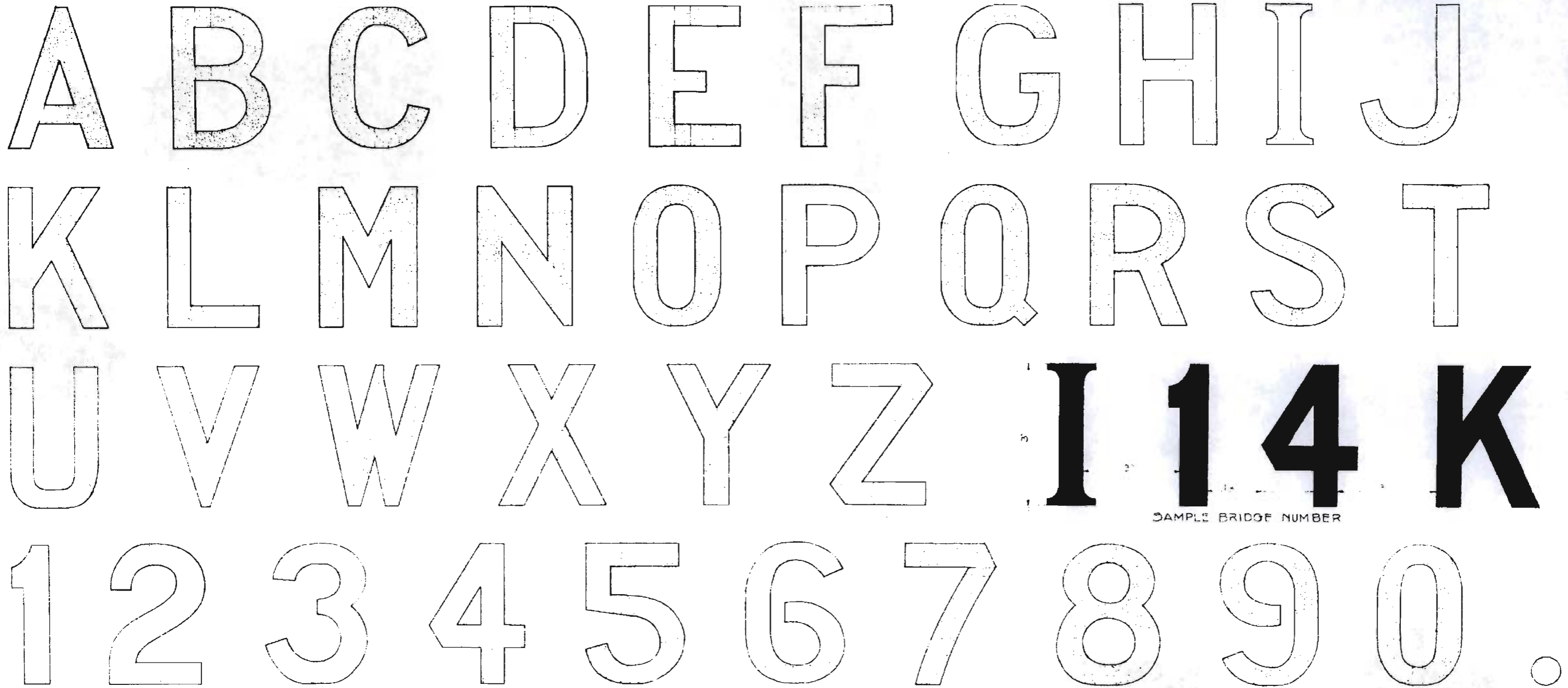


SCALE OF LETTERING

STANDARD M-10-A

FED. ROAD DIST. NO.	STATE	W.P.G.H. PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	18	15	

Revised 9-16-35 H50 (New Specifications)



GENERAL NOTES

ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS OF THE COLORADO STATE HIGHWAY DEPARTMENT, ADOPTED AUG. 1, 1935.

THE STRUCTURE NUMBER SHALL BE STENCILED ON THE RIGHT HAND SIDE OF EACH ENDPOST AND AS SHOWN ON THIS STANDARD AND AS SPECIFIED.

THE CORRECT NUMBER FOR EACH BRIDGE IS SHOWN IN THE LOWER RIGHT HAND CORNER OF THE DETAIL SHEETS FOR THAT PARTICULAR BRIDGE.

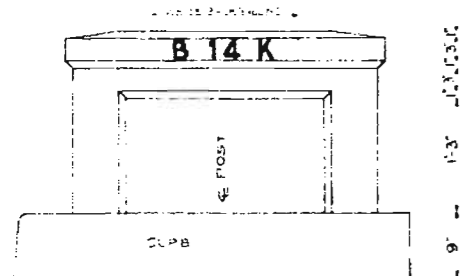
THE SIZE, SHAPE AND SPACING OF THE LETTERS AND FIGURES SHALL BE IDENTICAL WITH THE FULL SIZE SHOWN ON THIS SHEET. ADDITIONAL COPIES OF THIS FULL SIZE SHEET CAN BE OBTAINED FROM THE DEPARTMENT WITHOUT CHARGE.

BEFORE STENCILING THE NUMBER ON THE BRIDGE, THE SURFACE MUST BE THOROUGHLY CLEANED. A PROPER WHITE BACKGROUND SHALL BE PAINTED ON CONCRETE SURFACES. ON TIMBER HANDRAILS THE WHITE PAINT USED ON THE BRIDGE WILL BE SATISFACTORY. ON CONCRETE ENDPOSTS THE DRY CONCRETE SURFACE SHALL BE PROPERLY SIZED BEFORE PLACING THE WHITE RECTANGLE, UNLESS AN APPROVED WHITE CONCRETE PAINT IS USED.

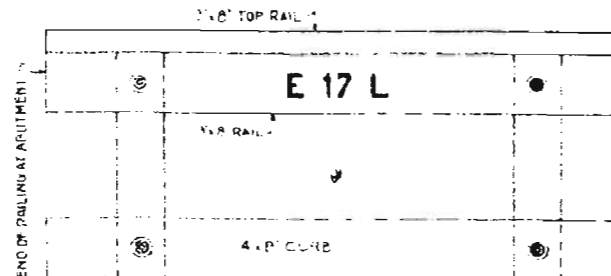
TWO COATS OF ACCEPTABLE WHITE PAINT SHALL BE APPLIED TO THE CONCRETE IN A NEAT RECTANGULAR SHAPE AND EXTEND THREE INCHES BEYOND THE LIMITS OF THE STRUCTURE NUMBER.

AFTER THIS WHITE BACKGROUND HAS DRIED SUFFICIENTLY, THE CORRECT STRUCTURE NUMBER SHALL BE CAREFULLY STENCILED ON IT WITH TWO COATS OF STANDARD G. SECOND FIELD COAT BARN AS SPECIFIED UNDER ITEM 411 STEEL BRIDGE. THE BRACES OF THE STENCILED LETTERS AND FIGURES SHALL BE CAREFULLY FILLED IN BY HAND TO MAKE SOLID FIGURES. SUFFICIENT TIME BETWEEN SUCCESSIVE COATS SHALL BE ALLOWED TO PERMIT THE PRECEDING COAT TO DRY.

THIS WORK WILL NOT BE PAID FOR AS A SEPARATE ITEM. COMPENSATION SHALL BE INCLUDED IN THE ORIGINAL CONTRACT ITEMS.



TYPICAL CONCRETE ENDPOST.



TYPICAL TIMBER W-40

COLORADO
STATE HIGHWAY DEPARTMENT
STANDARD STRUCTURE
NUMBER LETTERING.

Address _____
Near _____ Sta _____ Sec. T R.

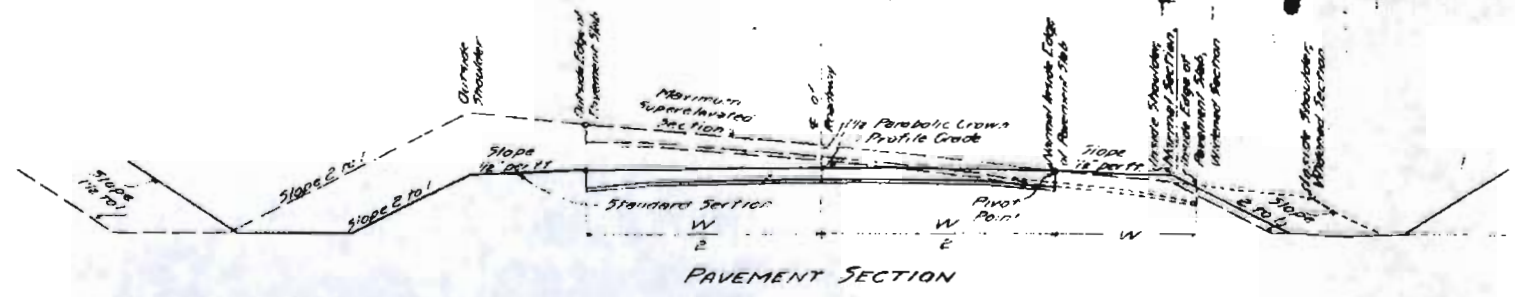
Designed by _____
Made by _____
Check Design _____
Check Detail _____

Approved by *Paul Bailey*
Bridge Engineer
Date: Feb. 6, 1935.

STANDARD M-1-A

FED. ROAD DIST. No.	STATE	WSPC No.	SHEET No.	TOTAL SHEETS
3	COLO.	18	16	

Revised 8-17-32 SBL (200' Length)
 Revised 8-31-32 SBL
 Revised 2-7-34 SBL
 Revised 8-24-34 SBL (Special Cases)
 Revised 9-16-35 450' (New Specifications)



SUPERELEVATION AND WIDENING NOTES FOR PAVEMENT SECTION

Curves on projects using the pavement section are to be superelevated and widened as indicated in the accompanying drawings and table.

The normal inside edge of the pavement slab is to remain at the standard elevation of 0.125 ft below the profile grade, and the outside edge of the slab is to be superelevated at the rate per foot width of roadway given in the table or graph. The section is to be rotated about the normal inside edge of the pavement.

When the degree of curvature exceeds 10°, the inside portion of the pavement slab is to be widened from the normal inside edge as per the table below. Curves of 10° or less are not to be widened. The 1 1/2% parabolic crown is to be used for curves of 10° and under. The widened section is to have a flat crown.

The slope of the shoulder shall conform to the rate per foot width of roadway required except that the inside shoulder shall maintain the standard slope of 0.0417 ft per foot width until the superlevation rate exceeds this standard slope.

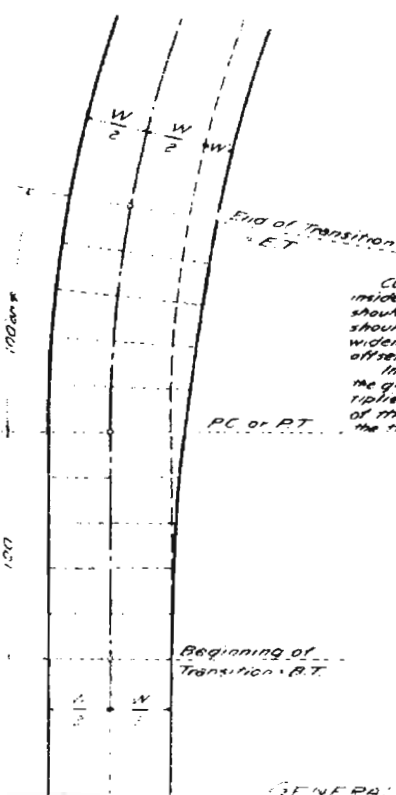
The outside ditch along a superelevated section is to be modified from the standard where a deeper ditch is required to provide drainage.

Details of plans for super-elevating and widening are shown on the General Plan for Widening and the Graph of Super-elevation Factors.

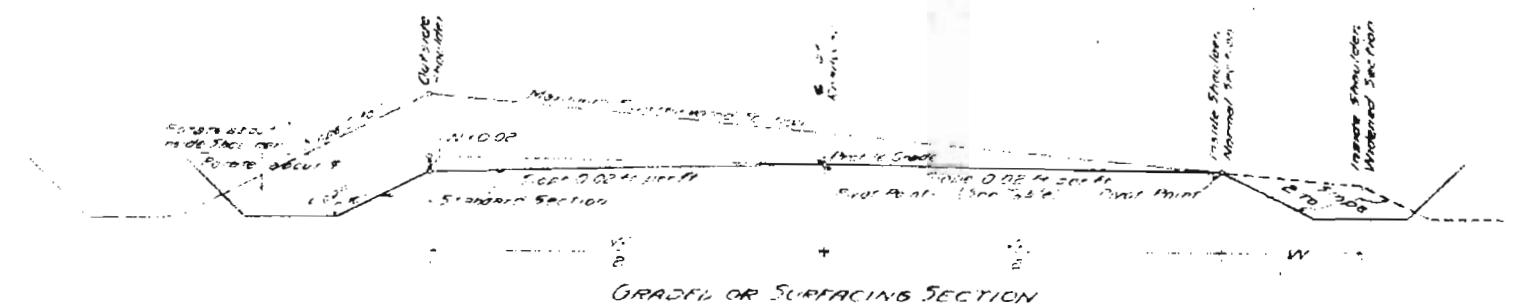
The subgrade for future pavement is to be constructed to conform to the super-elevation and widening requirements for the pavement section.

SUPERELEVATION FACTORS AND OFFSETS FOR WIDENING FOR PAVEMENT SECTION

Distance from B.T.	20 FT	40 FT	60 FT	80 FT	100 FT-PC	120 FT	140 FT	160 FT	180 FT	200 FT-ET	On Curve
Factor	0.02	0.08	0.18	0.32	0.50	0.68	0.82	0.92	0.98	1.00	1.00
Degree of Curve	Rate of Super-elevation (in Feet) per Foot Width of Roadway										
2° and Under	0.0004	0.0017	0.0038	0.0067	0.0105	0.0143	0.0172	0.0193	0.0206	0.0210	0.0210
3°	0.0006	0.0025	0.0057	0.0101	0.0152	0.0214	0.0280	0.0350	0.0399	0.0415	0.0415
4°	0.0008	0.0034	0.0076	0.0134	0.0210	0.0296	0.0386	0.0480	0.0512	0.0480	0.0480
5°	0.0010	0.0042	0.0094	0.0166	0.0262	0.0367	0.0487	0.0612	0.0585	0.0585	0.0585
6°	0.0013	0.0050	0.0113	0.0202	0.0315	0.0448	0.0597	0.0750	0.0617	0.0630	0.0630
7°	0.0015	0.0059	0.0132	0.0235	0.0368	0.0520	0.0683	0.0850	0.0720	0.0735	0.0735
8°	0.0017	0.0067	0.0151	0.0269	0.0420	0.0587	0.0769	0.0950	0.0820	0.0840	0.0840
9°	0.0019	0.0076	0.0170	0.0300	0.0472	0.0663	0.0875	0.1080	0.0925	0.0945	0.0945
10° and Over	0.0020	0.0080	0.0180	0.0320	0.0500	0.0680	0.0880	0.1080	0.1000	0.1000	0.1000
Offsets for Widening (in Feet)											
Over 10° Under 12°	0.06	0.24	0.54	0.96	1.44	2.04	2.76	3.54	4.38	5.00	5.00
12°	0.08	0.32	0.72	1.28	2.00	2.72	3.52	4.32	5.00	5.00	5.00
15°	0.10	0.40	0.90	1.60	2.50	3.40	4.40	5.40	6.00	6.00	6.00
Over 20°	0.12	0.48	1.08	1.92	2.80	3.80	4.92	6.00	6.00	6.00	6.00



Curves of over 10° are to have the inside portion of the pavement slab and shoulder, or the inside portion and shoulder in a graded or surfacing section, widened in accordance with the plan, offsets for widening, and cross sections in the graph below. The values for the graph labeled "10° and Over," multiplied by 1,000 gives the percentage of the total widening at any point on the transition.



SUPERELEVATION AND WIDENING NOTES FOR GRADE OR SURFACING SECTIONS

Curves on projects using the grade or surfacing section are to be super-elevated and widened as indicated in the accompanying drawings and table.

The normal inside edge of the pavement slab is to remain at a height in the typical section shown on sheet 18. The outside shoulder is to be 1 1/2 ft above the section.

The outside ditch along a super-elevated section is to be modified from the standard where a deeper ditch is required to provide drainage.

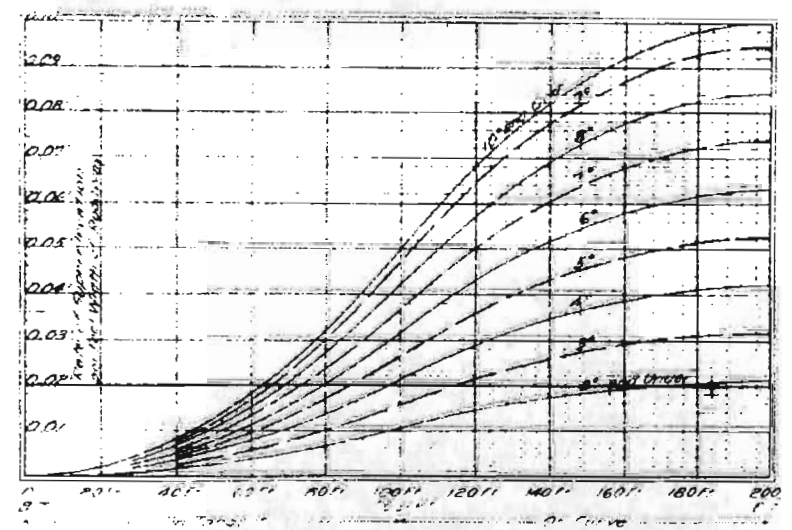
The center line pivot point is to be used as long as the super-elevation rate does not exceed 0.02 ft per foot width of roadway. The normal inside edge of the pavement slab is to be 0.125 ft below the super-elevation rate in excess of 0.02 ft per foot width of roadway.

When the degree of curvature exceeds 10°, the inside shoulder is to be widened from the normal inside shoulder line as shown by the table and graph section. Curves of 10° and less are not to be widened.

Details of plans for super-elevating and widening are shown on the General Plan for Widening and the Graph of Super-elevation Factors.

SUPERELEVATION FACTORS AND OFFSETS FOR WIDENING FOR GRADE OR SURFACING SECTIONS

Distance from B.T.	20 FT	40 FT	60 FT	80 FT	100 FT-PC	120 FT	140 FT	160 FT	180 FT	200 FT-ET	On Curve	Length of Transition	
Factor	0.02	0.08	0.18	0.32	0.50	0.68	0.82	0.92	0.98	1.00	1.00	Rotated about	
Degree of Curve	Rate of Super-elevation (in Feet) per Foot Width of Roadway											Center Line	Inside Shoulder
2° and Under	0.0004	0.0017	0.0038	0.0067	0.0105	0.0143	0.0172	0.0193	0.0206	0.0210	0.0210	160 FT	
3°	0.0006	0.0025	0.0057	0.0101	0.0152	0.0214	0.0280	0.0350	0.0399	0.0415	0.0415	115 FT	
4°	0.0008	0.0034	0.0076	0.0134	0.0210	0.0296	0.0386	0.0480	0.0512	0.0480	0.0480	80 FT	
5°	0.0010	0.0042	0.0094	0.0166	0.0262	0.0367	0.0487	0.0612	0.0585	0.0585	0.0585	113 FT	
6°	0.0013	0.0050	0.0113	0.0202	0.0315	0.0448	0.0597	0.0750	0.0617	0.0630	0.0630	80 FT	
7°	0.0015	0.0059	0.0132	0.0235	0.0368	0.0520	0.0683	0.0850	0.0720	0.0735	0.0735	80 FT	
8°	0.0017	0.0067	0.0151	0.0269	0.0420	0.0587	0.0769	0.0950	0.0820	0.0840	0.0840	69 FT	
9°	0.0019	0.0076	0.0170	0.0300	0.0472	0.0663	0.0875	0.1080	0.0925	0.0945	0.0945	69 FT	
10° and Over	0.0020	0.0080	0.0180	0.0320	0.0500	0.0680	0.0880	0.1080	0.1000	0.1000	0.1000	69 FT	
Offsets for Widening (in Feet)													
Over 10° Under 12°	0.06	0.24	0.54	0.96	1.44	2.04	2.76	3.54	4.38	5.00	5.00		
12°	0.08	0.32	0.72	1.28	2.00	2.72	3.52	4.32	5.00	5.00	5.00		
15°	0.10	0.40	0.90	1.60	2.50	3.40	4.40	5.40	6.00	6.00	6.00		
Over 20°	0.12	0.48	1.08	1.92	2.80	3.80	4.92	6.00	6.00	6.00	6.00		



GRAPH OF SUPERELEVATION TRANSITION FACTORS

The rate of super-elevation per foot width of roadway to be applied at the outside edge of the pavement slab, and at the outside shoulder of the roadway, is indicated as follows:

The total transition distance per foot width of roadway rate for a given degree of curvature is 0.0125 ft per foot width of roadway.

The maximum super-elevation at 0.010 ft per foot width applying to curves of 10° and over, is not to be exceeded.

The above graph has been prepared from the rates of super-elevation shown in the table below.

SPECIAL CASES: When the roadway alignment does not permit the use of the EXACT transition length, the roadway length may be dropped slightly, shortening the transition distance at 200 ft between the center of full super-elevation shall be used.

COLORADO STATE HIGHWAY DEPARTMENT

STANDARD M-1-A PLAN FOR SUPERELEVATION AND WIDENING OF CURVES

DESIGNED BY: [Name] APPROVED BY: [Name]

DRAWN BY: [Name] DATE: Aug 13, 1935

NOTE: All pile lines encroaching on construction are to be removed by force account.

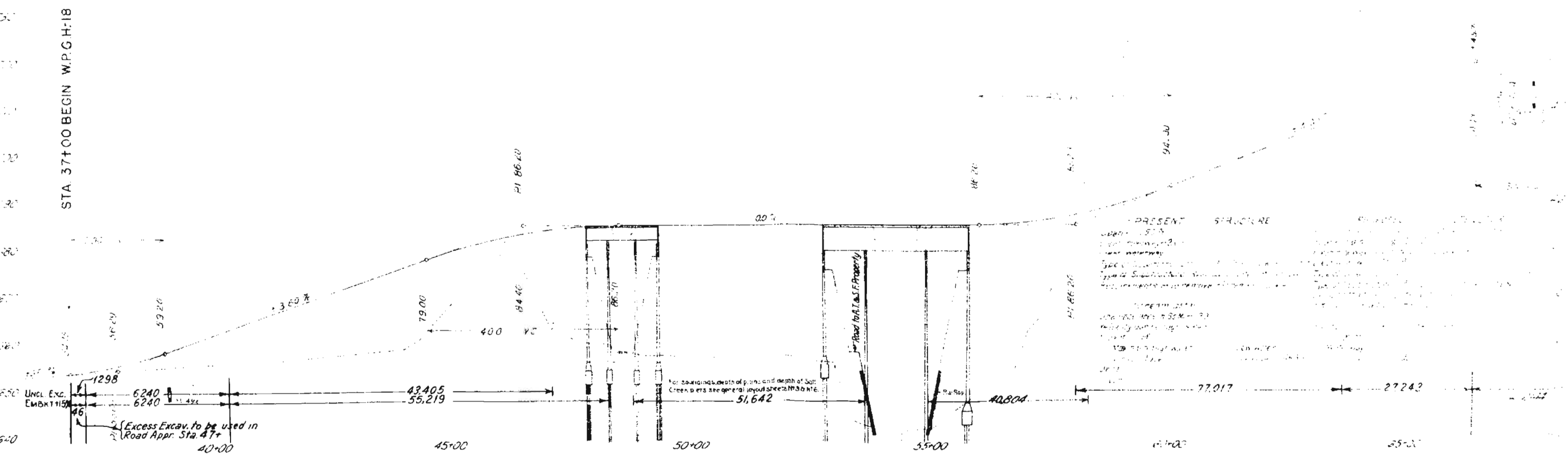
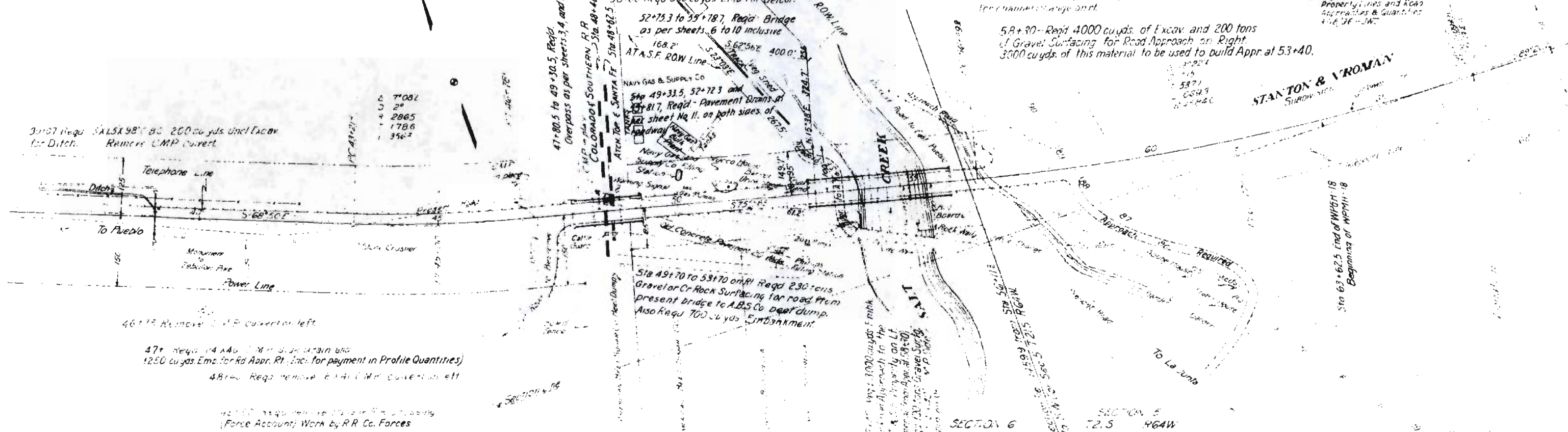
50+00 to 52+50 Remove drink stand fruit stand house
Piling station and equipment. (Force Account)

57+75 Req'd 1000 cu yds Uncl Exc for outlet ditch and 3000 cu yds
Embankment for road approach to east Public road. Also Req'd
200 tons Gravel or crushed Rock Surfacing.

Revised 3-27-36 JWS
Revised 4-6-36 RL

FED. ROAD DIST. NO.	STATE	WPMH WPGH PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	18	18	

Revised - Right of Way, Topography, Property Lines and Road Approaches & Quantities
4-6-36 JWS



PRESENT STRUCTURE
 1. 12' x 12' concrete piers
 2. 12' x 12' concrete piers
 3. 12' x 12' concrete piers
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 99. 12' x 12' concrete piers
 100. 12' x 12' concrete piers

Revised 3/27/36 - JVS

FED. ROAD DIST. NO.	STATE	W.P.M.H. PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLORADO	18	19	

67160 Reqd. 4' x 4' x 104' C.B.C. and 20 cu yds Uncl. Exc. for inlet

78+10 R.R. Crossing to be constructed by Rail Road Company. Not included in cost of project

80+00 Reqd. 2' x 2' x 92' C.B.C. and 50 cu yds Uncl. Exc. for inlet

83+00 to 86+100 Reqd. to remove tanks, pump house, pipe lines, garage, filling station and equipment. (Work by Force Account)

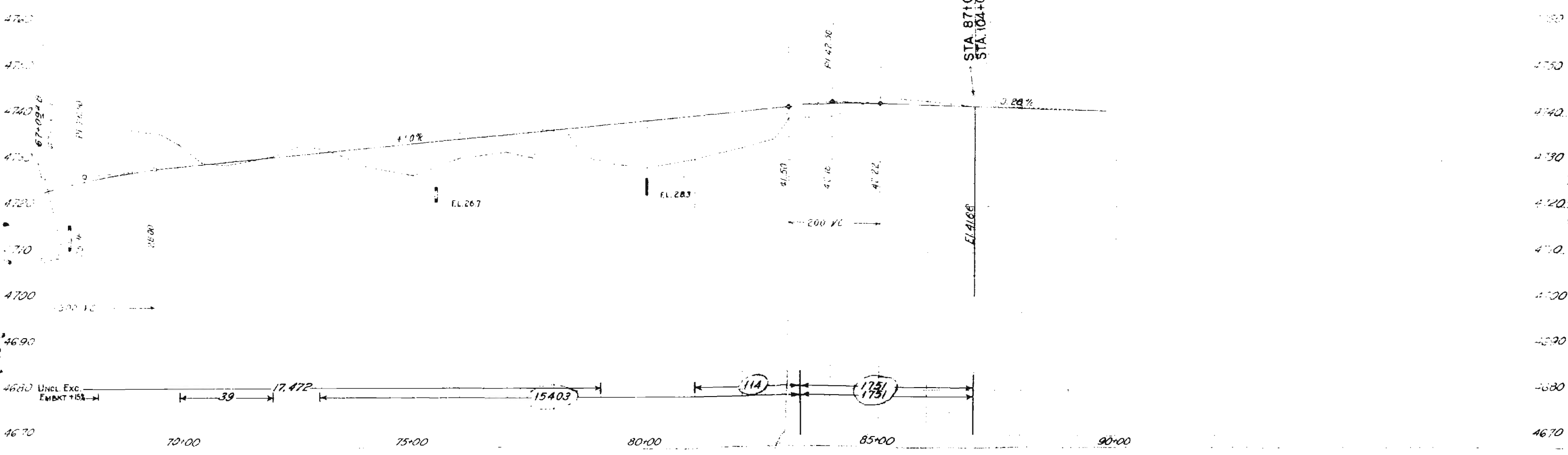
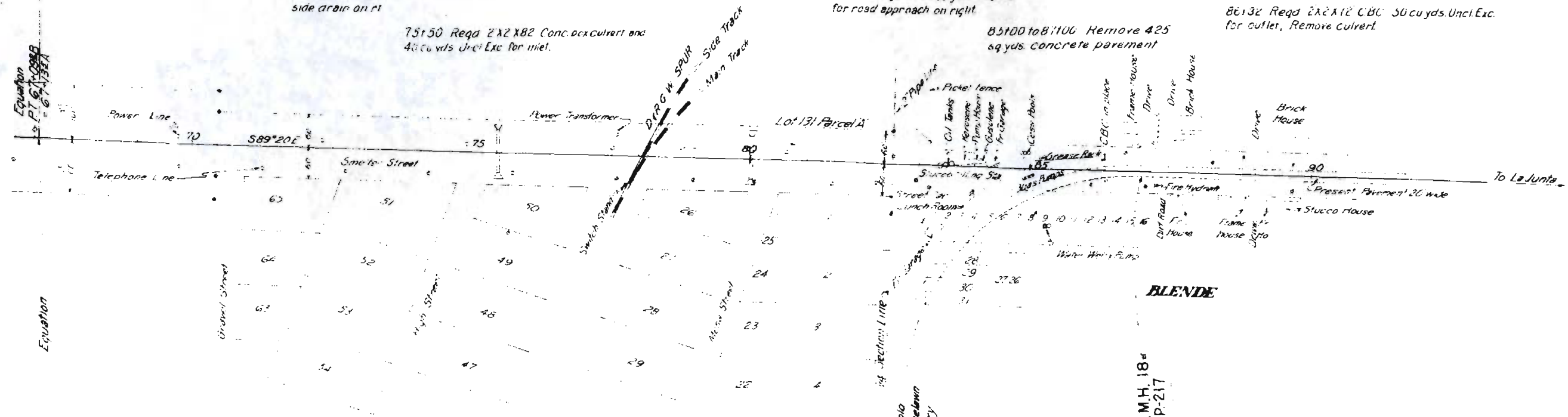
75100 Reqd. 400 cu yds Embankment for road approach and 6' x 36" C.M.P. side drain on rt

75+50 Reqd. 2' x 2' x 82' Conc. box culvert and 40 cu yds Uncl. Exc. for inlet

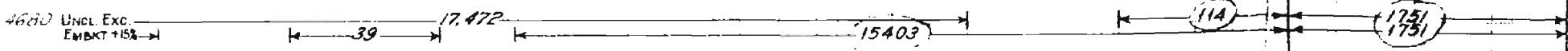
82+90 Reqd. 700 cu yds Embankment for road approach on right

85+00 to 87+100 Remove 425 sq yds concrete pavement

86+32 Reqd. 2' x 2' x 12' C.B.C. 50 cu yds Uncl. Exc. for outlet, Remove culvert



STA. 87+00 END W.P.M.H. 18#
STA. 104+09 ON F.A.P. 217



Location West of Salt Creek US 50

P E R M A N E N T E A S E M E N T NO. E-1

KNCW ALL MEN BY THESE PRESENTS, that The Arkansas Valley Investment Company, a
general partnership of Pueblo County, State of
Colorado, hereinafter called the "grantor", for and in
consideration of the sum of ONE DOLLAR (\$1.00), and other valuable consideration to
them in hand paid by the Colorado Department of Highways,
hereinafter called the

"grantees", receipt of which is hereby acknow-
ledged, has given and granted and by these presents does hereby give and grant unto
the said grantees a PERPETUAL EASEMENT on, along, over and across the following
described premises, to-wit:

A tract of land 20.0 feet in width, being 10 feet on either side of the
following described centerline;

Beginning at a point where the centerline of Lot 7 extended of Bullen's
Sub-Division in the W $\frac{1}{2}$ of Section 6, T. 21 S., R. 64 W., of the 6th P.M. in
Pueblo County, Colorado, intersects the northerly right of way line of State
Highway No. 6, U.S. 50;

1. Thence N. 31° 56' E. along the centerline of Lot 7, and centerline
of Lot 7 extended a distance of 350.0 feet to the northerly line of Lot 2,
Bullen Sub-Division.

2. Thence continuing N. 31° 56' E. to the south bank of the Arkansas
River.

Fee

for the purpose of constructing and maintaining a drain ditch at present, and a
drain pipe which is to be constructed in the future.

Subject to the following terms and conditions: Grantees shall construct drain
pipe, and fill drainage ditch within 2 years after date of this instrument. Size
of drain pipe will be 36 inches in diameter.

And the Grantor(s) hereby covenant(s) with the Grantees that it has good title to
the aforescribed premises; that it has good and lawful right to grant this ease-
ment; that it will warrant and defend the title and quiet possession thereof
against the lawful claims of all persons whomsoever.

IN WITNESS WHEREOF, (X)(We) have hereunto set our hand(s) and seal(s) this
_____ day of _____ A.D., 19_____.

ARKANSAS VALLEY INVESTMENT COMPANY
Grantor

BY:

J.P. Bullen
Grantor

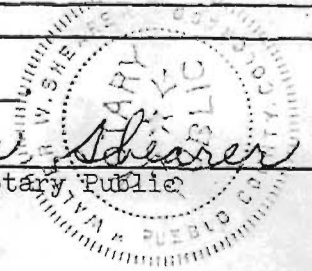
STATE OF Colorado)
County of Pueblo) SS.

The foregoing instrument was acknowledged before me this 13th day of
January A.D., 1958 by _____

Witness my hand and official seal.

My commission expires _____

Walter W. Shearer
Notary Public



Reception No.

Recorder.

KNOW ALL MEN BY THESE PRESENTS, That CLYDE GREEN and MARGUERITE C. GREEN

of the County of Pueblo and State of Colorado, for the consideration of TEN DOLLARS (\$10.00) and other valuable consideration in hand paid, hereby sell and convey to THE STATE HIGHWAY DEPARTMENT

of the County of Pueblo and State of Colorado, the following real property, situate in the County of Pueblo and State of Colorado, to-wit:

A tract or parcel of land containing 0.118 acres, more or less, in Lot 136, Stanton and Vroman Subdivision, in the Southwest Quarter of Section 5, T. 21 S., R. 64 W., of the Sixth Principal Meridian, in Pueblo County, Colorado, said tract or parcel being more particularly described as follows:

Beginning at a point which is the SW corner of Lot 136, Stanton and Vroman Subdivision, Section 5, T. 21 S., R. 64 W., from which point the SW corner of said Section 5, bears S. 0° 38' W. a distance of 1,472.3 feet;

- 1. Thence N. 57° 42' E. along the South line of Lot 136, a distance of 127.8 feet;
2. Thence along the arc of a curve to the right with a radius of 4,484.0 feet, a distance of 50.9 feet (the chord of which arc bears N. 76° 18' W. a distance of 50.9 feet);
3. Thence N. 75° 58' W. a distance of 60.6 feet, to a point on the West line of Lot 136;
4. Thence S. 0° 09' E. along the West line of Lot 136, a distance of 95.1 feet, more or less, to the point of beginning.

The above-described parcel contains 0.118 acres, more or less.

with all its appurtenances, and warrant the title to the same, subject to

Signed and delivered this 7th day of April, A. D. 19 50

in the presence of

Clyde Green (SEAL)
Marguerite C. Green (SEAL)

STATE OF COLORADO

County of Pueblo

ss.

The foregoing instrument was acknowledged before me this 7th day of April 1950, by CLYDE GREEN and MARGUERITE C. GREEN

Witness my hand and official seal.

My commission expires

My Commission expires March 3, 1954

Charles W. Busby Notary Public.

WPMH 18-R, Parcel No. 1-A, Pueblo County.

*If by natural person or persons here insert name or names; if by person acting in representative or official capacity or as attorney-in-fact, then insert name of person as executor, attorney-in-fact or other capacity or description; if by officer of corporation, then insert name of such officer or officers, as the president or other officers of such corporation, naming it.—Statutory Acknowledgment, Session 1927.

KNOW ALL MEN BY THESE PRESENTS, That I, HELEN MARY STANTON SMITH

of the County of Pueblo, and State of Colorado,
for the consideration of TEN DOLLARS (\$10.00) and other valuable consideration Dollars,
in hand paid, hereby sell and quit claim to THE STATE HIGHWAY DEPARTMENT

of the County of Pueblo, and State of Colorado,
the following real property, situate in the County of Pueblo
and State of Colorado, to-wit:

An undivided one half (1/2) interest in and to the following, to-wit:
A tract or parcel of land containing 1.291 acres, more or less, in
Lots 87 to 90 inclusive, Stanton and Vroman Subdivision, in the SW¹/₄ of
Section 5, T. 21 S., R. 64 W., of the Sixth Principal Meridian, in Pueblo
County, Colorado, said tract or parcel being more particularly described as
follows:

Beginning at a point which is the SW corner of Lot 90, of the Stanton
and Vroman Subdivision, Section 5, T. 21 S., R. 64 W., from which point the
Southwest corner of said Section 5, bears S. 0° 38' W. a distance of 1,472.3
feet;

1. Thence S. 25° 38' E. along the South line of Lots 89 and 90, a distance of 139.7 feet;
 2. Thence along the arc of a curve to the left with a radius of 4,684.0 feet, a distance of 336.3 feet (the chord of which arc bears S. 78° 39' E. a distance of 336.3 feet) to a point on the North line of Lot 87;
 3. Thence N. 33° 16' W. along the North line of Lots 87 and 88, a distance of 176.5 feet, to the northwest corner of Lot 88;
 4. Thence N. 28° 12' W. along the North line of Lot 89 a distance of 92.5 feet;
 5. Thence along the arc of a curve to the right with a radius of 4,484.0 feet, a distance of 145.0 feet (the chord of which arc bears N. 77° 33' W. a distance of 144.9 feet) to a point on the West line of Lot 90;
 6. Thence S. 57° 42' W. along the West line of Lot 90 a distance of 127.8 feet, more or less, to the point of beginning.
- The above-described parcel contains 1.291 acres, more or less.

with all its appurtenances.

Signed and delivered this 4th day of April, A. D. 19 50

In the presence of

Marian M. Brand
Marian M. Brand

Helen Mary Stanton Smith
Helen Mary Stanton Smith

[SEAL]

[SEAL]

[SEAL]

TEXAS
STATE OF COLORADO
County of CAMERON

ss.

The foregoing instrument was acknowledged before me this 4th day of April, 1950, by HELEN MARY STANTON SMITH, of Pueblo County, Colorado, but temporarily in Brownsville, Cameron County, Texas,

My commission expires June 1, 1950.

Louise Fernandez
Louise Fernandez
Cameron County, Texas Notary Public.



WPMH 18-R, Parcel No. 2-A, Pueblo County.

*If by natural person or persons here insert name or names; if by person acting in representative or official capacity or as attorney-in-fact, then insert name of person as executor, attorney-in-fact or other capacity or description; if by officer of corporation, then insert name of such officer or officers, as the president or other officers of such corporation, naming it.—Statutory Acknowledgment, Session 1927.

KNOW ALL MEN BY THESE PRESENTS, That I, JOHN C. VROMAN, JR.

of the County of Otero, and State of Colorado,
for the consideration of ~~##~~TEN DOLLARS (\$10.00) and other valuable consideration~~##~~
in hand paid, hereby sell and quit claim to THE STATE HIGHWAY DEPARTMENT

of the County of Pueblo and State of Colorado,
the following real property, situate in the County of Pueblo
and State of Colorado, to-wit:

An undivided one half (1/2) interest in and to the following, to-wit:
A tract or parcel of land containing 1.291 acres, more or less, in Lots 87
and 90, inclusive, Stanton and Vroman Subdivision, in the SW¹/₄ of Section 5,
T. 21 S., R. 64 W., of the Sixth Principal Meridian, in Pueblo County, Colorado,
said tract or parcel being more particularly described as follows:

Beginning at a point which is the SW corner of Lot 90, of the Stanton and
Vroman Subdivision, Section 5, T. 21 S., R. 64 W., from which point the SW
corner of said Section 5 bears S. 0° 38' W. a distance of 1.472.3 feet;

1. Thence S. 25° 38' E. along the South line of Lots 89 and 90, a distance of 139.7 feet;
2. Thence along the arc of a curve to the left with a radius of 4,684.0 feet, a distance of 336.3 feet (the chord of which arc bears S. 78° 39' E. a distance of 336.3 feet) to a point on the North line of Lot 87;
3. Thence N. 33° 16' W. along the North line of Lots 87 and 88, a distance of 176.5 feet, to the northwest corner of Lot 88;
4. Thence N. 28° 12' W. along the North line of Lot 89 a distance of 92.5 feet;
5. Thence along the arc of a curve to the right with a radius of 4,480.0 feet, a distance of 145.0 feet (the chord of which arc bears N. 77° 33' W. a distance of 144.9 feet) to a point on the West line of Lot 90;
6. Thence S. 57° 42' W. along the West line of Lot 90 a distance of 127.8 feet, more or less, to the point of beginning.

The above-described parcel contains 1.291 acres, more or less.

with all its appurtenances.

Signed and delivered this 11th day of May, A. D. 19 50

In the presence of

John C. Vroman, Jr. [SEAL]
John C. Vroman, Jr. [SEAL]
[SEAL]

STATE OF COLORADO, } ss.
County of Pueblo

The foregoing instrument was acknowledged before me this 11th day of May 19 50, by JOHN C. VROMAN, Jr.



March 3rd 1954

Charles M. Burke
Notary Public.

Parcel No. 2-A, Pueblo County.

*If by natural person or persons here insert name or names; if by person acting in representative or official capacity or as attorney-in-fact, then insert name of person as executor, attorney-in-fact or other capacity or description; if by officer of corporation, then insert name of such officer or officers, as the president or other officers of such corporation, naming it.—Statutory Acknowledgment, Session 1927.

Recorded at

A. C. KOCHENBERGER, Recorder

Reception No.

Recorder.

THIS DEED, Made this _____ day of _____ in the year of our Lord one thousand nine hundred and Forty-nine, between

THE FOUNTAIN SAND AND GRAVEL COMPANY

a corporation duly organized and existing under and by virtue of the laws of the State of Colorado, of the first part, and

THE STATE HIGHWAY DEPARTMENT

of the _____ County of _____ State of Colorado, of the second part,

WITNESSETH that

TO HAVE AND TO HOLD the same, together with all and singular the appurtenances and privileges thereunto belonging, or in anywise thereunto appertaining, and all the estate, right, title, interest and claim whatsoever, of the said party of the first part, either in law or equity, to the only proper use, benefit and behoof of the said party of the second part, its heirs and assigns forever.

IN WITNESS WHEREOF, The said party of the first part hath caused its corporate name to be hereunto subscribed by its _____ President, and its corporate seal to be hereunto affixed, attested by its Secretary, the day and year first above written.

Attest:

J. A. Bullen
Secretary.

By *Mabel E. Bullen*
President.

STATE OF COLORADO, } ss.
County of _____

The foregoing instrument was acknowledged before me this *9th* day of *February*

1950 by *Mabel E. Bullen* as President and

J. A. Bullen as Secretary of

a corporation.



My notarial commission expires _____
Witness my hand and official seal.

My Commission Expires Feb. 15, 1953

J. Ralph Donaghy
Notary Public.

THIS DEED, Made this _____ day of _____ in the year of our Lord one thousand nine hundred and Forty-nine, between

THE FOUNTAIN SAND AND GRAVEL COMPANY

a corporation duly organized and existing under and by virtue of the laws of the State of Colorado, of the first part, and

THE STATE HIGHWAY DEPARTMENT

of the _____ County of _____ State of Colorado, of the second part,

WITNESSETH, That the said party of the first part, for and in consideration of the sum of \$10.00 and other valuable consideration to the said party of the first part in hand paid by the said party of the second part, the receipt whereof is hereby confessed and acknowledged, hath remised, released, sold, conveyed and QUIT CLAIMED, and by these presents doth remise, release, sell, convey and QUIT CLAIM unto the said party of the second part, its heirs and assigns forever, all the right, title, interest, claim and demand which the said party of the first part hath in and to the following described situate, lying and being in the County of Pueblo and State of Colorado, to-wit:

A tract or parcel of land containing 6.530 acres, more or less, in Lots 66, 68, 69, 130 and 131, Stanton and Vromm Subdivision, in the Southwest Quarter of Section 5, Township 21 South, Range 64 West of the Sixth Principal Meridian, in Pueblo County, Colorado, said tract or parcel being more particularly described as follows:

Beginning at a point on the lot line common to lots 87 and 131, Stanton and Vromm Subdivision, Section 5, T. 21 S., R. 64 W., from which point the southwest corner of said Section 5 bears S. 15° 36' W., a distance of 1,343.1 feet.

1. Thence along the arc of a curve to the left with a radius of 4,684.0 feet, a distance of 704.5 feet (the chord of which arc bears S. 85° 01' E., a distance of 703.9 feet);
2. Thence S. 89° 33' E., a distance of 324.4 feet to a point on a line common to lot 66 and the west side of Gravel Street;
3. Thence N. 0° 44' E., along the west side of Gravel Street, a distance of 61.6 feet, to the intersection with the north side of Smelter Street;
4. Thence S. 89° 20' E., along the north side of Smelter Street

a distance of 629.5 feet to the intersection with the west side of Title Street;

5. Thence N. 24° 10' E., along the west side of Title Street, a distance of 83.5 feet to the southeast corner of Lot 140;
6. Thence N. 65° 50' W., along the south line of Lot 140, a distance of 54.5 feet;
7. Thence N. 89° 20' W., a distance of 612.9 feet;
8. Thence N. 0° 39' E., a distance of 40.1 feet;
9. Thence N. 89° 33' W., a distance of 324.4 feet;
10. Thence along the arc of a curve to the right with a radius of 4,484.0 feet, a distance of 850.1 feet (the chord of which arc bears N. 83° 54' W., a distance of 848.9 feet) to a point on the lot line common to Lots 131 and 89;
11. Thence S. 28° 12' E., along the lot line common to Lots 131 and 89, a distance of 92.5 feet, to the northwest corner of Lot 88;
12. Thence S. 33° 16' E., along the lot line common to Lots 131, 87, and 88, a distance of 176.5 feet, more or less, to the point of beginning.

The above described parcel contains 6.530 acres, more or less.

A. G. KOCHENBERGER, Recorder

C.D.H. E.O.W. Form No. 193

Recorded ato'clock.....M.

Reception No. Recorder.

KNOW ALL MEN BY THESE PRESENTS: That I(~~we~~)

WILLIAM M. KING

grantor , of the County of Pueblo and State of Colorado for the consideration of Ten Dollars, in hand paid, hereby grant s , bargain s , sell s and convey s to THE STATE HIGHWAY COMMISSION OF COLORADO, a public corporation, for the use and benefit of the DEPARTMENT OF HIGHWAYS of the State of Colorado, grantees, and its successors and assigns, for present and future highway purposes, the following real property situate in the County of Pueblo and State of Colorado, to-wit:

A tract or parcel of land, No. 4A of Grantee's Project No. WPMH 18-R containing 0.015 acres , more or less, in the SW 1/4 of Sec. 5, T. 21 S., R. 64 W., of the Sixth P.M., in Pueblo County, Colorado, said tract or parcel being more particularly described as follows:

Beginning at a point from which the S 1/4 corner of Sec. 5, T. 21 S., R. 64 W. bears S. 21° 10' E. a distance of 1473.2 feet;

1. Thence along the southeasterly lot line N. 24° 10' E. a distance of 23.7 feet;
2. Thence N. 89° 20' W. a distance of 59.4 feet to the southwesterly lot line;
3. Thence along the southwesterly lot line, S. 65° 50' E. a distance of 54.5 feet, more or less, to the point of beginning.

The above described parcel contains 0.015 acres, more or less.

together with all the appurtenances thereunto belonging, including but not in any way limiting in such conveyance, all gravel, earth, rock, timber and all other materials and growths now or hereafter to be found on said property, and the right to remove the same from said premises, and the right to make cuts and fills thereon.

And the grantor , for him self , his heirs, executors and administrators, do es covenant, grant, bargain and agree to and with the grantee, and its successors and assigns, the above bargained premises in the quiet and peaceable possession of the grantee and its successors and assigns, against all and every person or persons lawfully claiming or to claim the whole or any part thereof, by, through or under the grantor to warrant and forever defend.

Signed, sealed, and delivered this 28th day of December A.D., 19 53

William M. King
WILLIAM M. KING

KNOW ALL MEN BY THESE PRESENTS, That JOSEPH C. WILLGING Bishop of Pueblo

of the County of Pueblo and State of Colorado, for the consideration of TEN DOLLARS (\$10.00) and other valuable consideration in hand paid, hereby sell and convey to THE STATE HIGHWAY DEPARTMENT of the State of Colorado, the following real property, situate in the County of Pueblo and State of Colorado, to-wit:

A tract or parcel of land containing 0.806 acres, more or less, in Parcel "A" of Lot 131, Stanton and Vroman Subdivision, in the SW 1/4 of Section 5, T. 21 S., R. 64 W., of the Sixth Principal Meridian, in Pueblo County, Colorado, said tract or parcel being more particularly described as follows:

Beginning at a point which is the southeast corner of Parcel "A" of Lot 131, Stanton and Vroman Subdivision, Section 5, T. 21 S., R. 64 W., from which point the S 1/4 corner of said Section 5 bears S. 0° 22' W. a distance of 1,291.1 feet;

- 1. Thence N. 0° 22' E. along the East line of Parcel "A" of Lot 131, a distance of 98.2 feet;
2. Thence N. 89° 20' W. a distance of 316.9 feet, to a point on the East line of the abandoned D. & R. G. W. Railroad right of way;
3. Thence along the arc of a curve to the left with a radius of 630.0 feet, which is the East line of the abandoned D. & R. G. W. Railroad right of way, a distance of 125.7 feet (the chord of which arc bears S. 39° 10' W. a distance of 125.5 feet) to a point on the North line of Smelter Street;
4. Thence S. 89° 20' E. along the North line of Smelter Street, a distance of 395.6 feet, more or less, to the point of beginning.

The above-described parcel contains 0.806 acres, more or less.

with all its appurtenances, and warrant the title to the same, subject to

Signed and delivered this 7th day of April, A. D. 19 50

in the presence of

Joseph C. Willging (SEAL) Bishop of Pueblo (SEAL)



STATE OF COLORADO

County of Pueblo

ss.

The foregoing instrument was acknowledged before me this 7th day of April

19 50, by JOSEPH C. WILLGING, Bishop of Pueblo

Witness my hand and official seal.

My commission expires

March 3, 1954

Charles M. Burke Notary Public

WPMH 18-R, Parcel No. 5-A, Pueblo County.

*If by natural person or persons here insert name or names; if by person acting in representative or official capacity or as attorney-in-fact, then insert name of person as executor, attorney-in-fact or other capacity or description; if by officer of corporation, then insert name of such officer or officers, as the president or other officers of such corporation, naming it.—Statutory Acknowledgment, Session 1927.

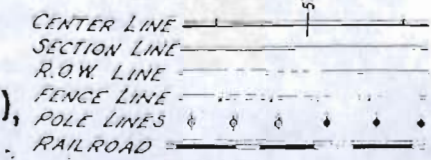
FED. ROAD DIST. NO.	STATE	COMBINED PROJ. NO. S.N.	SHEET NO.	TOTAL SHEETS
3	COLO.	F.A.P. 97(2) F.A.P. 216-D(2) F.A.P. 216-C(2) F.A.P. 216-B(2) F.A.P. 216-A(2)	1	

97.02

COLORADO STATE HIGHWAY DEPARTMENT

PLAN AND PROFILE OF PROPOSED COMB. S.N. FED. AID PROJECT NO. { 97(2), 216-A(2), 216-B(2), 216-C(2), & 216-D(2) STATE HIGHWAY NO. 6 PROWERS COUNTY

CONVENTIONAL SIGNS



- INDEX OF SHEETS**
- SHEET NO. 1. TITLE SHEET
 - " 2. TYPICAL SECTIONS & SUMMARY OF QUANTITIES
 - " 3&3a LIST OF STRUCTURES
 - " 4. SURFACING PLAN, SELECT MATERIAL & JOINT DETAIL
 - " 5. STANDARD HEADWALLS FOR C.M.P. CULVERTS M-102-F
 - " 6. STANDARD CONCRETE BOX CULVERTS M-103-E
 - " 7. CONCRETE BOX CULVERTS M-104-E
 - " 8. TIMBER GUARD POSTS M-19-B
 - " 9. WIRE CABLE GUARD FENCE M-20-B
 - " 10. METHODS FOR SUPERELEVATION AND WIDENING OF CURVES M-1-B
 - " 11. TYPICAL SIDE APPROACH ROADS - ROADWAY CONSTRUCTION TRAFFIC SIGNS M-2-B
 - " 12-26. PLAN AND PROFILE
 - " 27-86. CROSS SECTIONS

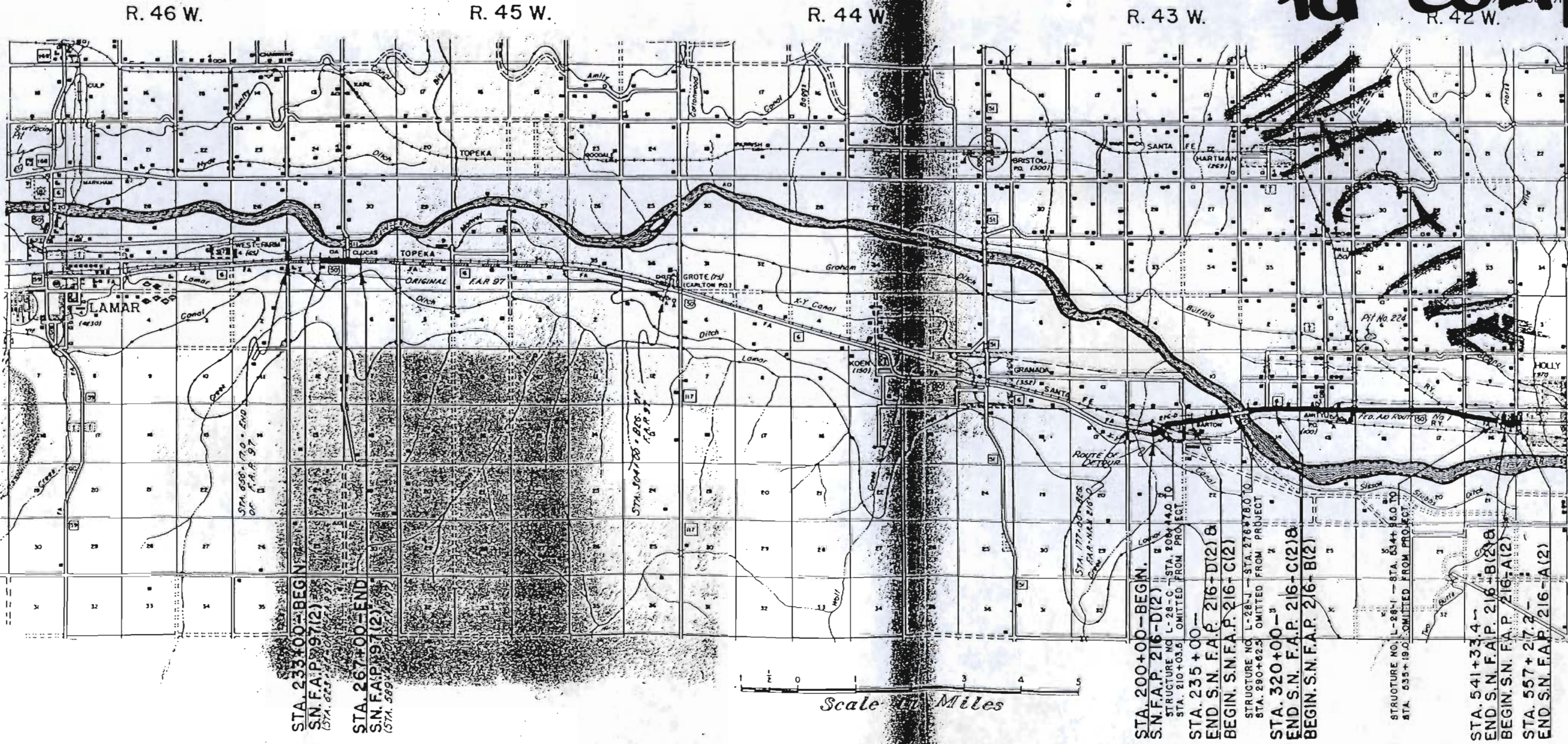
F.A.P. 97(2)	Sheets	1, 2, 3a, 4, 11, 12, 13, 27 to 31 incl., & 86
F.A.P. 216-D(2)	"	1, 2, 3, 4, 5, 7, 8, 9, 10, 11, 14, 15, 32 to 40 incl., & 86
F.A.P. 216-C(2)	"	1, 2, 3, 4, 5, 6, 8, 9, 10, 11, 15, 16, 17, 18, 40 to 52 incl., & 86
F.A.P. 216-B(2)	"	1, 2, 3, 3a, 4, 6, 8, 9, 10, 11, 18 to 25 incl., 52 to 82 incl., & 86
F.A.P. 216-A(2)	"	1, 2, 3a, 4, 10, 11, 25, 26, & 82 to 86 incl.

SCALES ON ORIGINAL TRACINGS
ON PLAN 1" = 100 FT.
ON PROFILE 1" = 100 FT. HORIZONTAL
1" = 10 FT. VERTICAL
GRADE LINE ON PROFILE SHOWN AS GRADE OF FINISHED ROAD

**See Dr. 4: File # 48
FAP 97(002)
for completed maps**

PROJECT	PROG. LENGTH	NET LENGTH
F.A.P. 97(2)	4,400.0 FT. = 0.643 MI.	3,400.0 FT. = 0.638 MI.
F.A.P. 216-D(2)	3,500.0 FT. = 0.662 MI.	3,340.5 FT. = 0.632 MI.
F.A.P. 216-C(2)	8,247.9 FT. = 1.562 MI.	6,863.4 FT. = 1.299 MI.
F.A.P. 216-B(2)	22,133.3 FT. = 4.191 MI.	22,109.3 FT. = 4.187 MI.
F.A.P. 216-A(2)	1,593.8 FT. = 0.301 MI.	1,593.8 FT. = 0.301 MI.

NOTE: It is recommended that bidders on this project go over the plan and profile with one of the following field engineers or the District Engineer in charge of the project.



T. 22 S.

T. 23 S.

RECOMMENDED FOR APPROVAL
[Signature]
ASSISTANT ENGINEER DATE 11-19-40

APPROVED
[Signature]
STATE HIGHWAY ENGINEER / DATE

RECOMMENDED FOR APPROVAL
DISTRICT ENGINEER
PUBLIC ROADS ADMINISTRATION
FEDERAL WORKS AGENCY

RECOMMENDED FOR APPROVAL
CHIEF, WESTERN REGION
PUBLIC ROADS ADMINISTRATION
FEDERAL WORKS AGENCY

APPROVED
COMMISSIONER
PUBLIC ROADS ADMINISTRATION
FEDERAL WORKS AGENCY

STA. 233+00 - BEGIN
S.N. F.A.P. 97(2)
(STA. 229+00)

STA. 267+00 - END
S.N. F.A.P. 97(2)
(STA. 269+00)

STA. 200+00 - BEGIN
S.N. F.A.P. 216-D(2)
STRUCTURE NO. L-28-C - STA. 200+40 TO
STA. 210+03.1 OMITTED FROM PROJECT

STA. 235+00 -
END S.N. F.A.P. 216-D(2) &
BEGIN S.N. F.A.P. 216-C(2)
STRUCTURE NO. L-28-J - STA. 278+78.0 TO
STA. 290+62.5 OMITTED FROM PROJECT

STA. 320+00 -
END S.N. F.A.P. 216-C(2) &
BEGIN S.N. F.A.P. 216-B(2)

STRUCTURE NO. L-28-I - STA. 534+86.0 TO
STA. 535+19.0 OMITTED FROM PROJECT

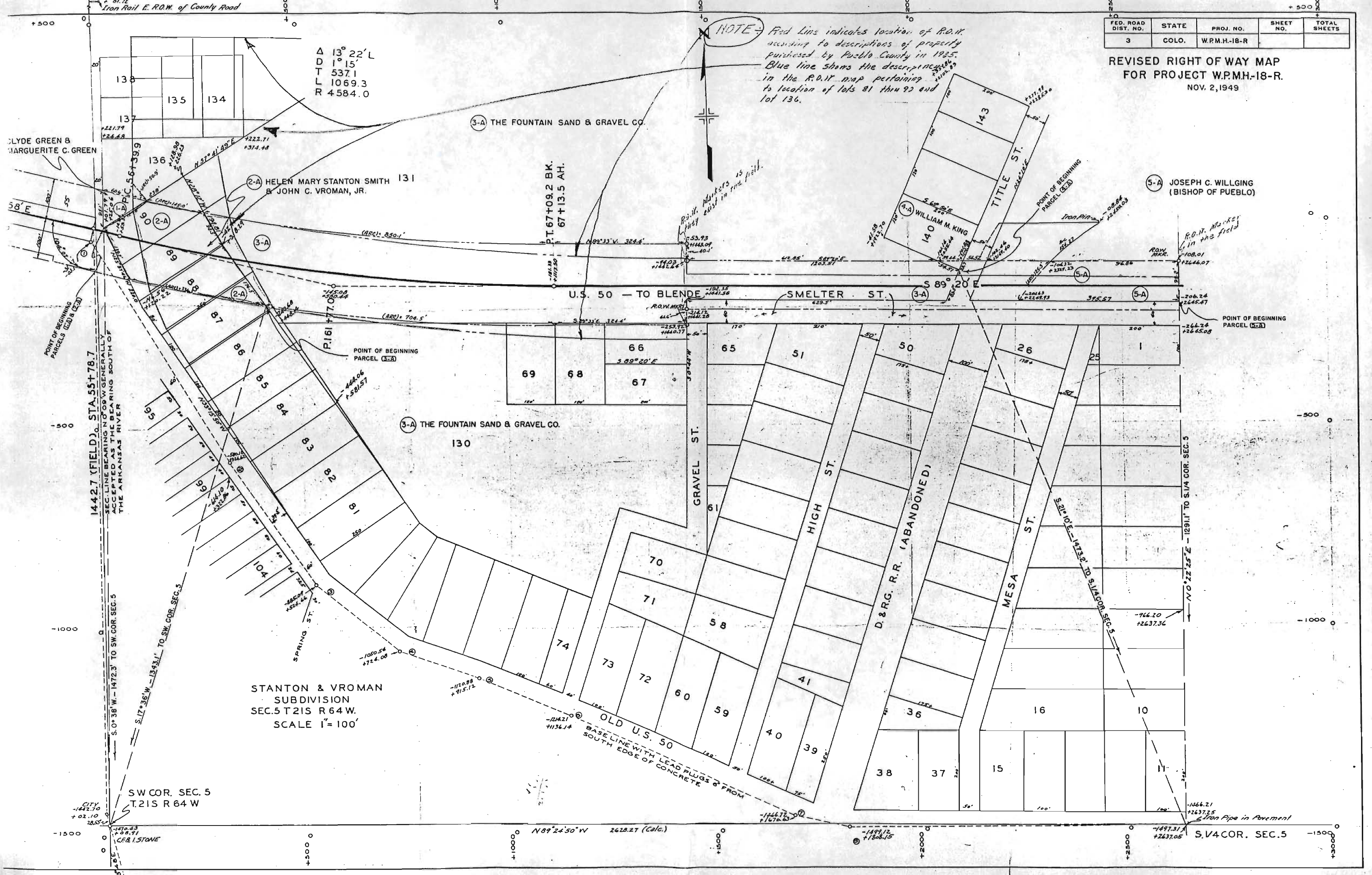
STA. 541+33.4 -
END S.N. F.A.P. 216-B(2) &
BEGIN S.N. F.A.P. 216-A(2)
STA. 557+27.2 -
END S.N. F.A.P. 216-A(2)

Scale 1" = 1 Miles

FED. ROAD DIST. NO.	STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	W.P.M.H-18-R		

REVISED RIGHT OF WAY MAP
FOR PROJECT W.P.M.H-18-R.
NOV. 2, 1949

NOTE - Red Line indicates location of R.O.W. according to descriptions of property purchased by Pueblo County in 1925. Blue line shows the description in the R.O.W. map pertaining to location of lots 81 thru 92 and lot 136.



Δ 13° 22' L
D 1° 15'
T 537.1
L 1069.3
R 4584.0

CLYDE GREEN & MARGUERITE C. GREEN

(2-A) HELEN MARY STANTON SMITH & JOHN C. VROMAN, JR.

(3-A) THE FOUNTAIN SAND & GRAVEL CO.

(4-A) WILLIAM M. KING

(5-A) JOSEPH C. WILLING (BISHOP OF PUEBLO)

STANTON & VROMAN SUBDIVISION
SEC. 5 T. 21 S. R. 64 W.
SCALE 1" = 100'

SW COR. SEC. 5
T. 21 S. R. 64 W.

OLD U.S. 50
BASE LINE WITH LEAD PLUGS 6' FROM SOUTH EDGE OF CONCRETE

S. 1/4 COR. SEC. 5

CITY -1442.70
+02.10
C.F.B. STONE

-1066.21
+2637.25
Iron Pipe in Pavement

N 89° 24' 50" W 2628.27 (Calc.)

-1497.12
+1808.15

-1497.31
+2637.05

1442.7 (FIELD) STA. 55+78.7
SEC. LINE BEARING N 09° 09' W GENERALLY ACCEPTED AS THE BEARING SOUTH OF THE ARKANSAS RIVER

S. 0° 36' W - 1472.3 TO SW COR. SEC. 5
S. 17° 36' W - 1343.1 TO SW COR. SEC. 5

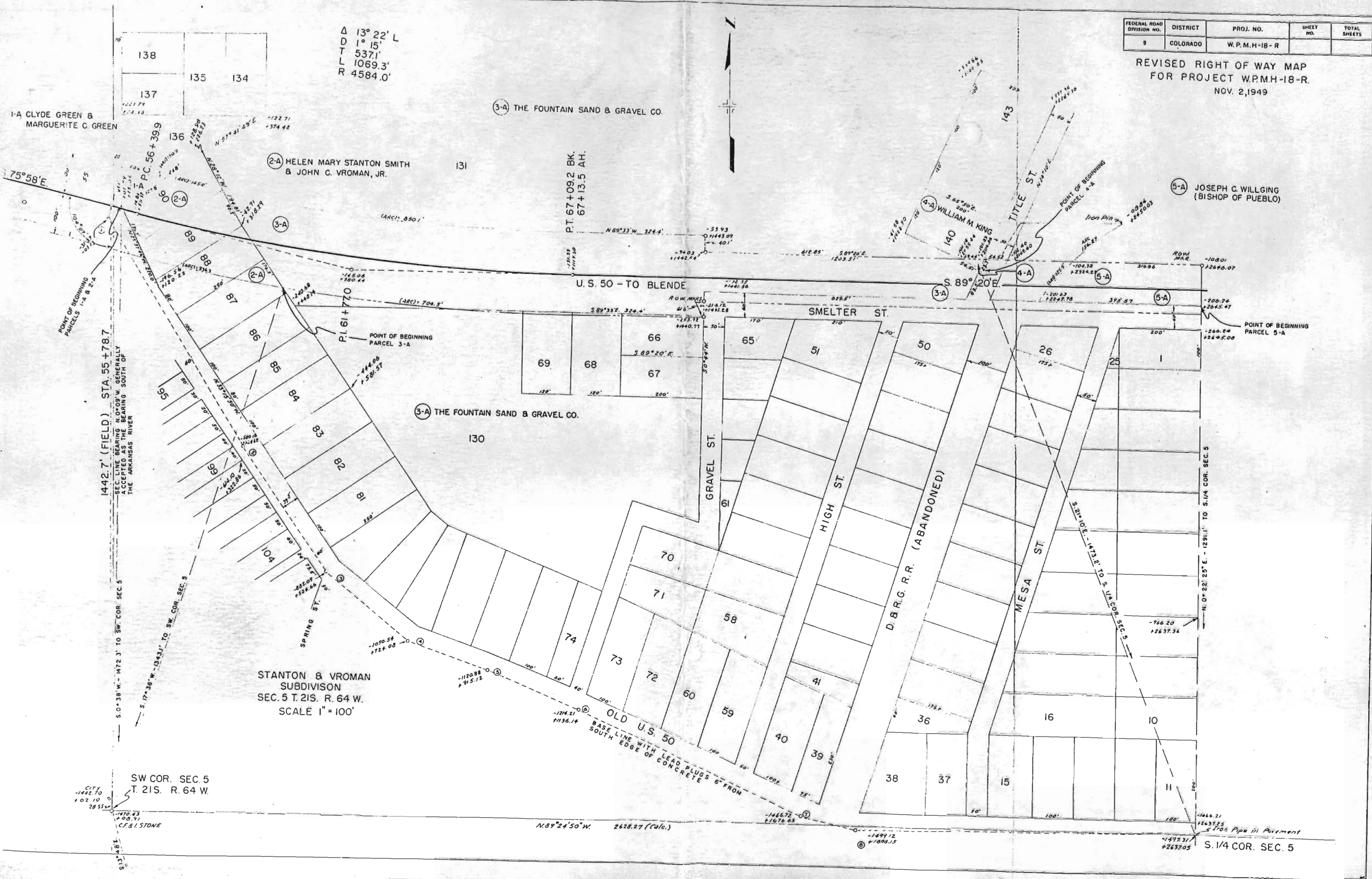
58° E

58° E

58° E

FEDERAL ROAD DIVISION NO.	DISTRICT	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLORADO	W.P.M.H-18-R		

REVISED RIGHT OF WAY MAP
FOR PROJECT WPMH-18-R.
NOV. 2, 1949



Δ 13° 22' L
D 1° 15'
T 537.1'
L 1069.3'
R 4584.0'

1-A CLYDE GREEN & MARGUERITE C. GREEN

3-A THE FOUNTAIN SAND & GRAVEL CO.

2-A HELEN MARY STANTON SMITH & JOHN C. VROMAN, JR.

5-A JOSEPH C. WILLGING (BISHOP OF PUEBLO)

P.T. 67+09.2 BK. 67+13.5 AH.

75° 58' E

U.S. 50 - TO BLENDE

SMELTER ST.

1442.7' (FIELD) STA. 55+78.7
SEC. LINE BEARING N 0° 09' W. GENERALLY ACCEPTED AS THE MAKING SOUTH OF THE ARRAZAS RIVER

POINT OF BEGINNING PARCEL 3-A

POINT OF BEGINNING PARCEL 5-A

3-A THE FOUNTAIN SAND & GRAVEL CO.

STANTON & VROMAN SUBDIVISION
SEC. 5 T. 21S. R. 64 W.
SCALE 1" = 100'

SW COR. SEC. 5 T. 21S. R. 64 W.

OLD U.S. 50
BASE LINE WITH LEAD PLUGS 6" FROM SOUTH EDGE OF CONCRETE

S. 1/4 COR. SEC. 5

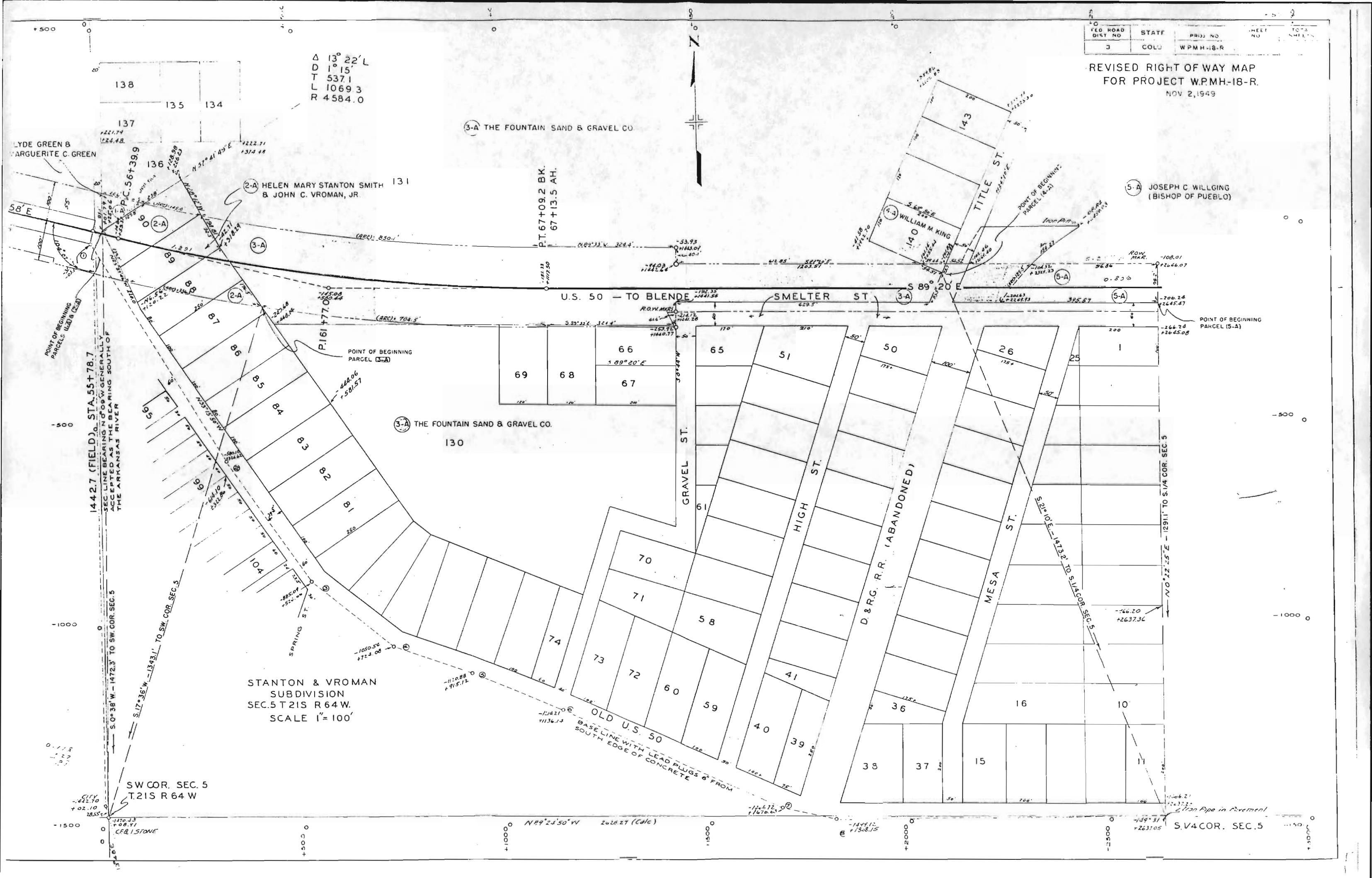
CITY 1442.70
102.10
28.55
S. 13° 45' E

N. 89° 24' 50" W. 2628.27 (Calc.)

1497.31
+2637.05

FED. ROAD DIST. NO.	STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	WPMH-18-R		

REVISED RIGHT OF WAY MAP
FOR PROJECT WPMH-18-R
NOV 2, 1949



Δ 13° 22' L
D 1' 15"
T 537.1
L 1069.3
R 4584.0

3-A THE FOUNTAIN SAND & GRAVEL CO

2-A HELEN MARY STANTON SMITH & JOHN C. VROMAN, JR.

5-A JOSEPH C WILLING (BISHOP OF PUEBLO)

4-A WILLIAM M. KING

POINT OF BEGINNING PARCEL (5-A)

3-A THE FOUNTAIN SAND & GRAVEL CO.

STANTON & VROMAN
SUBDIVISION
SEC. 5 T.21S R.64 W.
SCALE 1" = 100'

OLD U.S. 50
BASE LINE WITH LEAD PLUGS & FROM
SOUTH EDGE OF CONCRETE

S.V.4 COR. SEC. 5

1442.7 (FIELD) STA. 55+78.7
SEC. LINE BEARING N 09° W GENERALLY
ACCEPTED AS THE BEARING SOUTH OF
THE ARKANSAS RIVER

SW COR. SEC. 5
T.21S R.64 W

N 89° 21' 50" W 2020.27 (Calc)

Iron Pipe in River