

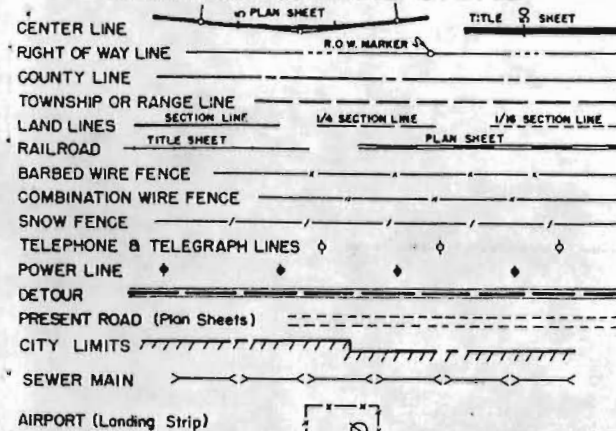
COLORADO DEPARTMENT OF HIGHWAYS

PLAN AND PROFILE OF PROPOSED COLORADO PROJECT NO. C 09-0006-25 STATE HIGHWAY NO. 6 OTERO COUNTY

FEDERAL ROAD REGION NO.	DIVISION	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLORADO	C 09-0006-25	1	

Rev. 4-7-60, Tabulation of Length, C.J.S.

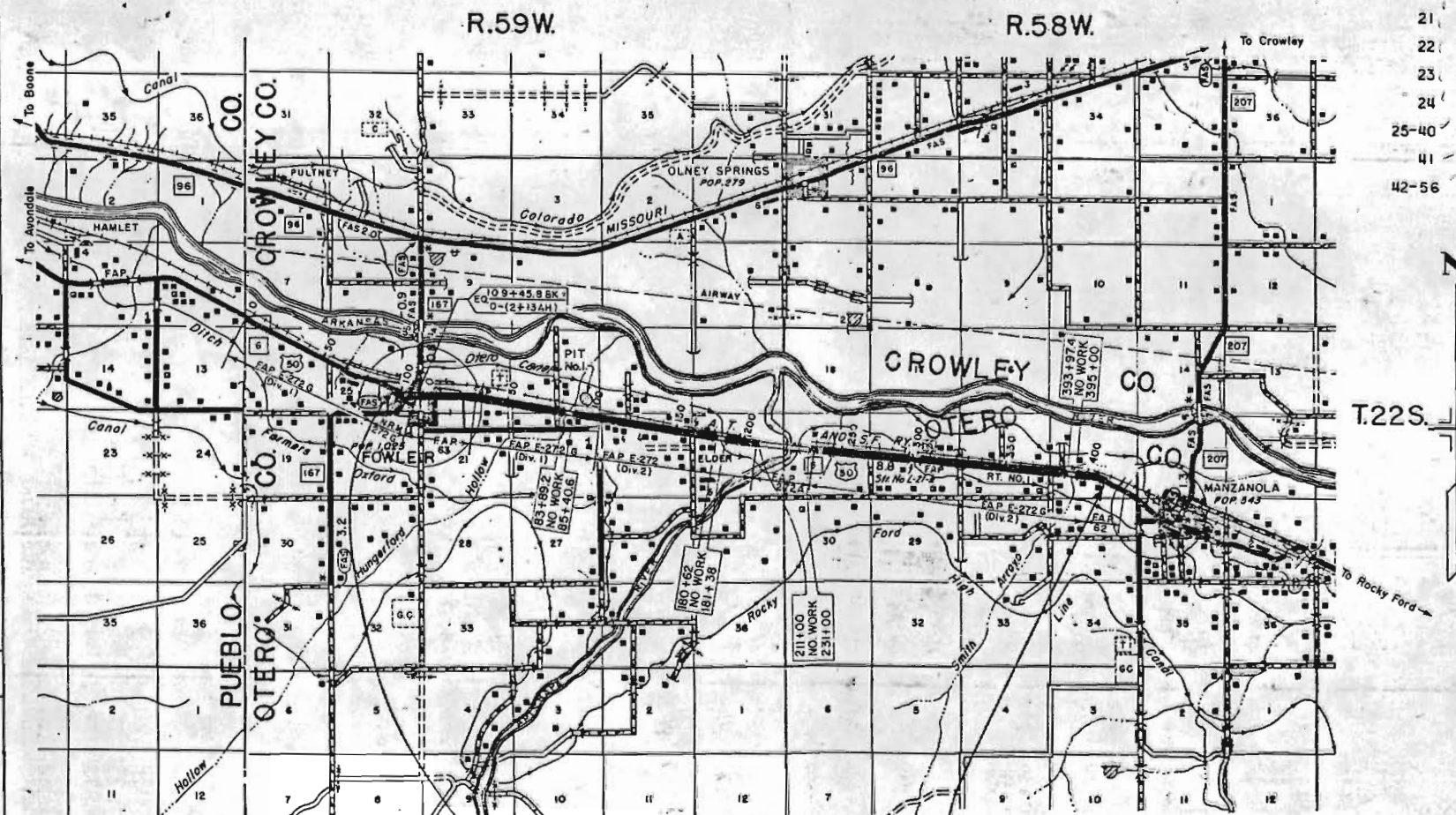
CONVENTIONAL SIGNS



TABULATION OF LENGTH AND DESIGN

STATION	WORK SECTION		NO WORK SECTION
	24' ROADWAY	CITY SECTION	
	LIN. FT.	LIN. FT.	
98+39.7 BEGIN C 09-0006-25 = 98+39.7 FAP E-272-G (DIV. 1) = 98+39.7 on NRM 272 G 109+45.8 BK. = End NRM 272 G 0- (2+13) AH. Begin FAP 63		1,106.1	
5+07 18+48 City Limits (Approx.) 33+98.8 BK. = 34+00.0 AH. = End FAP 63 = 34+00.0 on FAP E-272 G (Div. 1)		720.0	
83+89.2 BEGIN BRIDGE	1,341.0		
85+40.6 END BRIDGE	1,550.8		
108+00 = END FAP E-272-G (DIV. 1) = 108+00 BEGIN FAP E-272-G (DIV. 2)	4,989.2		
180+62 181+38 209+51.8 = 209+51.8 on FAP E-272 G (Div. 2) = 240+00.0 End FAP 272 A		151.4	
211+00 231+00 231+51.8 = 231+51.8 on FAP E-272 G (Div. 2) = 218+00.0 Begin FAP 272 A	2,259.4		
393+97.4 395+00.0 405+38.8 END C 09-0006-25 = 405+57.4 END FAP E-272-G (DIV. 2) = 44+00.0 on FAP 62	7,262.0		
TOTALS	2,813.8		
	148.2		
	51.8		
	16,245.6		
	1,038.8		
	37,700.6	1,826.1	2,330.0
SUMMARY			
WORK SECTION: 24' ROADWAY	LIN. FT.	MILE	
CITY SECTION	37,700.6	7.140	
NET LENGTH	1,826.1	0.346	
TOTAL, NO WORK SECTION	39,526.7	7.486	
GROSS LENGTH	2,330.0	0.441	
	41,856.7	7.927	
DESIGN DATA			
MAXIMUM GRADE	1.70 %		
MAXIMUM DEGREE OF CURVE	6° 00'		
MINIMUM H.P.S.D. - HORIZONTAL	520'		
MINIMUM H.P.S.D. - VERTICAL	625'		
MAXIMUM DESIGN SPEED	60 M.P.H. (Except City Sec.)		

SCALES OF ORIGINAL DRAWINGS
ON PLAN, 1 IN. = 50 FT. STA. 98+39.7 TO 25+00.0
1 IN. = 100 FT. STA. 25+00.0 TO 405+38.8
ON PROFILE, 1 IN. = 50 FT. HORIZONTAL, STA. 98+39.7 TO 25+00.0
1 IN. = 100 FT. HORIZONTAL, STA. 25+00.0 TO 405+38.8
1 IN. = 10 FT. VERTICAL
GRADE LINE ON PROFILE IS SHOWN AS GRADE OF FINISHED ROAD
GROSS LENGTH OF PROJECT 41,856.7 FT. = 7.927 MI.
NET LENGTH OF PROJECT 39,526.7 FT. = 7.486 MI.



98+39.7 BEGIN C 09-0006-25 =
98+39.7 FAP E-272-G (Div. 1) =
98+39.7 on NRM 272-G

405+38.8 END C 09-0006-25 =
405+57.4 End FAP E-272-G (Div. 2) =
44+00 on FAP 62

INDEX OF SHEETS

SHEET NO.

- 1 TITLE PAGE, SKETCH MAP AND TABULATION OF LENGTH & DESIGN
- 2 TYPICAL SECTIONS
- 3 SUMMARY OF APPROXIMATE QUANTITIES
- 4 TABULATIONS OF SUB-BASE MATERIAL, SURFACING AND TIMBER GUARD POSTS
- 5 PIT LOCATION SHEET
- 6-7 LIST OF STRUCTURES
- 8 STANDARD METHODS FOR SUPERELEVATION & WIDENING OF CURVES (CROWNED HIGHWAYS) M-1-D
- 9 STANDARD SIDE APPROACH ROADS, FLARING, CUT SLOPE TREATMENT & WIDENING AT BRIDGES AND AT CREST OF GRADES M-2-EN
- 10 STANDARD MARKER POSTS AND BENCH MARKS M-7-D
- 11 STANDARD CONCRETE PAVEMENT JOINT DETAILS M-8-D
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- 13 STANDARD TIMBER GUARD POSTS M-19-E
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- 16 & 17 STANDARD ROADWAY CONSTRUCTION TRAFFIC SIGNS M-29-C
- 18 STANDARD SINGLE AND DOUBLE CONCRETE BOX CULVERTS M-50-B
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- 42-56 CROSS SECTIONS

SEE SPECIAL PROVISIONS FOR NOTICE TO BIDDERS

COLORADO
DEPARTMENT OF HIGHWAYS

APPROVED:
Monte L. [Signature] 3-16-60
CHIEF ENGINEER DATE

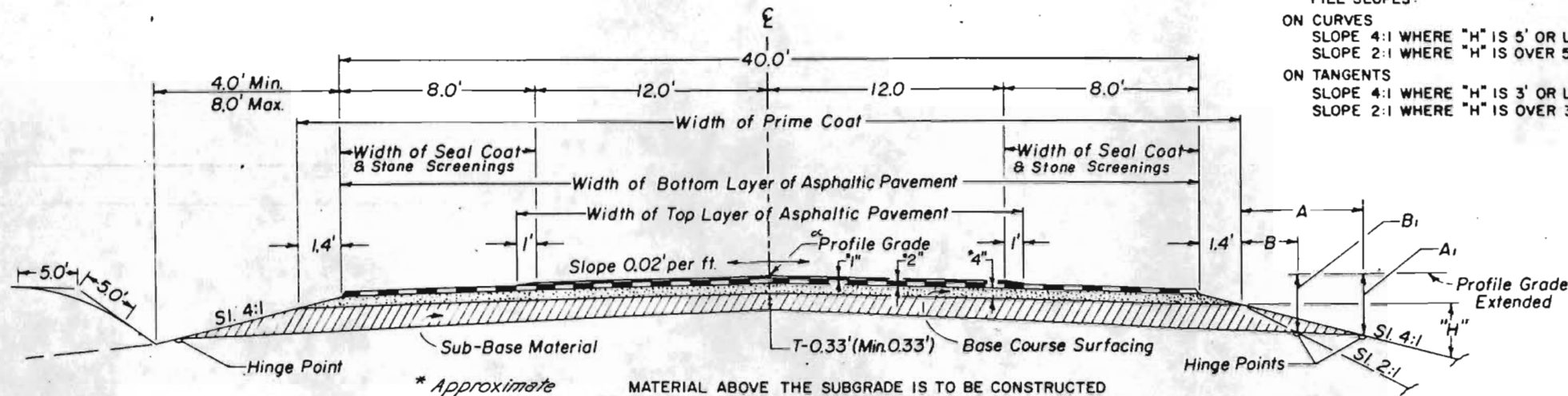
SCALE OF MILES

D.L.V.

NOTE
SEE STANDARDS FOR DETAILS OF
CUT SLOPE TREATMENT, FLARING & WIDENING

24' ROADWAY "A" TYPICAL CROSS SECTION

34+00 AH TO 405+38.8



FILL SLOPES:
ON CURVES
SLOPE 4:1 WHERE "H" IS 5' OR LESS
SLOPE 2:1 WHERE "H" IS OVER 5'
ON TANGENTS
SLOPE 4:1 WHERE "H" IS 3' OR LESS
SLOPE 2:1 WHERE "H" IS OVER 3'

MATERIAL ABOVE THE SUBGRADE IS TO BE CONSTRUCTED OF SUB-BASE MATERIAL AT LOCATIONS DESIGNATED IN SUB-BASE MATERIAL TABULATION. ESTIMATED QUANTITIES INVOLVED IN THIS OPERATION AND THICKNESS OF MATERIAL REQUIRED ARE TABULATED IN THE SUB-BASE MATERIAL PLAN.

APPROXIMATE 7" COMPACTED THICKNESS OF GRAVEL OR CRUSHED ROCK SURFACING SHALL BE PLACED IN SEPARATE COURSES AT THE FOLLOWING RATES PER 100 LIN. FT. OF ROADWAY.

	TYPICAL SECTION		
	"A"	"B"	"C"
PLANT MIXED ASPHALTIC SURFACING	15'	15'	39'
BASE COURSE	49'	49'	78'
	92'	39'	103'

*Based on Maximum Width.

α PROFILE GRADE SHALL BE THE COMBINED THICKNESS OF THE SUB-BASE MATERIAL AND THE SURFACING MATERIALS ABOVE THE PRESENT ROADBED, AFTER THE ROADBED HAS BEEN SHAPED.

SIDE SLOPE HINGE POINTS FOR SUB-BASE MATERIAL					
"T"	"T" - 0.33' (Min 0.33')	SLOPE 4:1		SLOPE 2:1	
		A	A ₁	B	B ₁
0.33'	0.33'	2.2'	-1.6'	1.1'	-1.5'
0.75'	0.42'	3.9'	-2.0'	1.8'	-1.9'

*"T" Sub-Base Material Design Thickness.

FED. ROAD REG. NO.	DIVISION	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	C 09-0006-25	2	

GENERAL NOTES

This project is to be constructed in conformity with the Standard Specifications of the Colorado Department of Highways, adopted January 1, 1958.

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

Road and street approaches shall be surfaced, as shown in the List of Structures, 50 feet out from edge of the asphaltic surfacing or to the Right of Way, whichever is less. Road Approaches crossing railroad tracks shall be surfaced, as shown in the List of Structures, from the edge of the asphaltic surfacing to the railroad tracks.

All cross culverts shall be laid with metal aprons or flared end sections unless otherwise noted on plans.

All guard posts to be removed by State Forces.

It is estimated that in place asphaltic mat will remain in place except as otherwise noted on plans.

ALL POLES ENCROACHING ON CONSTRUCTION ARE TO BE MOVED BY THE OWNERS.

ALL CURVES ARE TO BE SUPERELEVATED AND WIDENED AS PROVIDED BY THE STANDARD SUPERELEVATION SHEET INCLUDED WITH THE PLANS, unless otherwise noted on plans.

APPLICATION METHODS, FOR LIQUID ASPHALTIC ROAD MATERIAL, WHICH RESULT IN THE DISCOLORATION OF CONCRETE PAVEMENT, CURBS OR GUTTERS WILL NOT BE PERMITTED.

The item of Shaping and Compacting Roadbed will apply between: Sta. 34+00 Ah. and Sta. 211+00 Sta. 231+00 and Sta. 405+38.8 = 6.6 Miles

CLASS "AX" CONCRETE, AS DESCRIBED IN THE STANDARD SPECIFICATIONS, WILL BE PERMITTED ON THIS PROJECT.

FOR PRELIMINARY PLAN QUANTITIES OF ASPHALTIC ROAD MATERIALS AND STONE SCREENINGS, THE FOLLOWING RATES OF APPLICATION WERE USED:

PRIME COAT MC	@ 0.40 GALS. PER SQ. YD.
PRIME COAT MC (Concrete Pav.)	@ 0.10 GALS. PER SQ. YD.
PAVING ASPHALT	@ 6.3 % BY WEIGHT OF MIX
SEAL COAT RC	@ 0.23 GALS. PER SQ. YD.
STONE SCREENINGS	@ 24 LBS. PER SQ. YD.

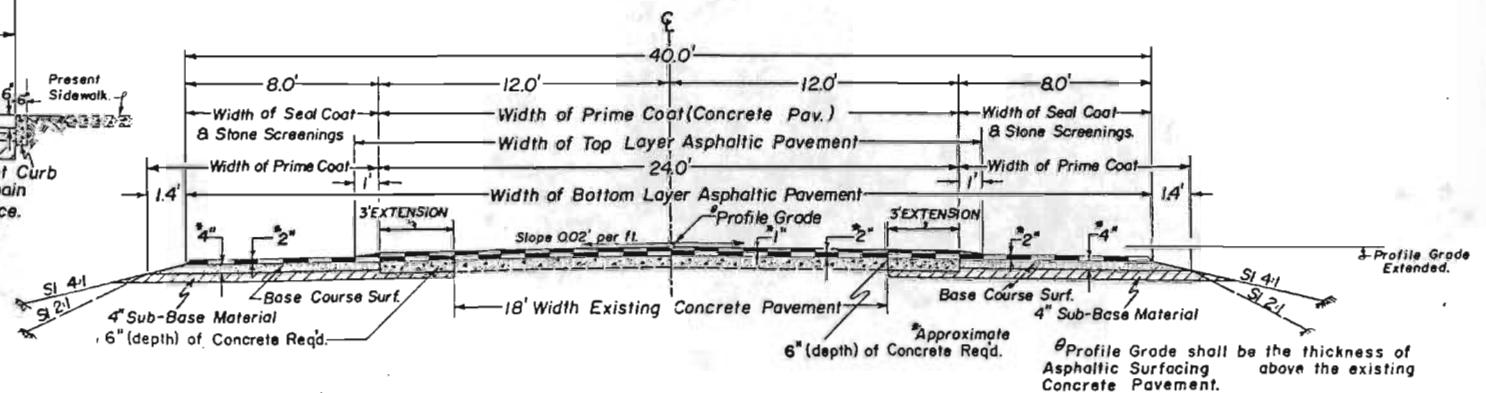
RATE OF APPLICATION AND GRADE OF ASPHALTIC MATERIAL SHALL BE AS DETERMINED BY THE ENGINEER AT TIME OF APPLICATION.

AT BRIDGE APPROACHES, THE TOP LAYER OF ASPHALTIC SURFACING SHALL BE WIDENED TO MEET THE CURBED WIDTH OF THE BRIDGE AND SHALL TAKE PLACE GRADUALLY OVER A DISTANCE OF 300 FT., EACH WAY FROM THE BRIDGE ENDS.

24' ROADWAY "B"

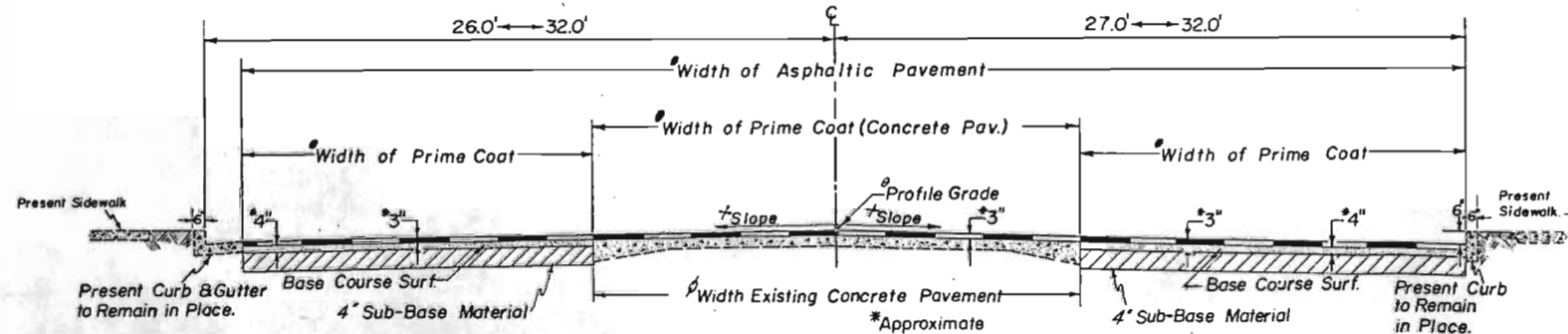
TYPICAL CROSS SECTION

5+07 TO 33+98.8 BK.



CITY SECTION "C" TYPICAL CROSS SECTION

98+39.7 TO 109+45.8 BK.
0-(2+13) AH TO 5+07



*Slope Variable, to meet Lip of Existing Gutter or to provide 6" Height to Present Curb.

Sta. 99+00 to 109+45.8 BK. Present Concrete 20' Wide
Sta. 0-(2+13) Ah. to 5+88.0 Present Concrete 18' Wide

*Approximate

*Variable

Profile Grade shall be the thickness of Asphaltic Surfacing above the existing Concrete Pavement.

Note: All Plant Mixed Asphaltic Surfacing shall be placed in two layers. The top layer to be approximately 1" thick and the bottom layer to be approximately 2" thick.

FED. ROAD REG. NO.	DIVISION	PROJECT NO.	SHEET NO.	TOTAL SHEETS
9	COLORADO	C 09-0006-25	3	

SUMMARY OF APPROXIMATE QUANTITIES

ITEM NO.	ITEM	UNIT	CITY SECTION	24' ROADWAY	PROJECT TOTALS
11	REMOVAL OF BRIDGE, STA. 300+	LUMP SUM	(PRORATED)	(PRORATED)	0
11	REMOVAL OF 9 STRUCTURES	LUMP SUM			0
11	RESET MAIL BOXES	LUMP SUM			0
11	PLUG CULVERTS	EACH	4	3	7
11	ADJUST CATCH BASIN RING AND COVER	EACH	1		1
11	REMOVING CONCRETE PAVEMENT	SQ. YD.	95	9	104
12	REMOVING AND REBUILDING FENCE	LIN. FT.		500	500
13	UNCLASSIFIED EXCAVATION	CU. YD.	2,150	6,850	9,000
13	UNCLASSIFIED DITCH EXCAVATION	CU. YD.		100	100
13	STRIPPING	CU. YD.	1,000	14,000	15,000
14	UNCLASSIFIED STRUCTURAL EXCAVATION - MISC.	CU. YD.	40	290	330
16	STRUCTURE BACKFILL (CLASS 1)	CU. YD.	25	105	130
17	COMPACTION (MODIFIED)	CU. YD.	2,900	7,100	10,000
17	WETTING	M GAL.	135	2,185	2,320
18	TON MILE OVERHAUL	TON MI.	16,320	337,780	354,100
23	SUB-BASE MATERIAL (CLASS 2)	TON	2,180	59,120	61,300
25	GRAVEL OR CRUSHED ROCK SURFACING (GRADING C)	TON	2,100	35,300	37,400
26	DETOUR SURFACING	CU. YD.		250	250
29	ASPHALT (85-100 PENETRATION)	TON	170	1,780	1,950
30	ASPHALTIC ROAD MATERIAL MC (PRIME)	GAL.	4,740	74,060	78,800
30	ASPHALTIC ROAD MATERIAL RC (SEAL)	GAL.		15,500	15,500
31	STONE SCREENINGS (TYPE 1)	TON		810	810
32	PLANT MIXED ASPHALTIC SURFACING	TON	2,420	25,670	28,090
37	CONCRETE PAVEMENT (6" THICK)	SQ. YD.	75	1,940	2,015
46	CLASS "A" CONCRETE	CU. YD.	3.6*	137.4*	141.0*
47	REINFORCING STEEL	LB.	500	11,200	11,700
52	18" REINFORCED CONC. CULVERT PIPE (CLASS III)	LIN. FT.		280*	280*
53	18" CORRUGATED METAL CULVERT PIPE	LIN. FT.		11	11
53	36" CORRUGATED METAL CULVERT PIPE	LIN. FT.		108	108
92	TIMBER GUARD POSTS	EACH		188	188
95	18" METAL APRONS FOR CORRUGATED METAL PIPE CULVERTS	EACH		1	1
95	24" METAL APRONS FOR CORRUGATED METAL PIPE CULVERTS	EACH		2	2
95	22" x 13" METAL APRONS FOR CORRUGATED METAL PIPE ARCH CULVERTS	EACH		2	2
95	29" x 18" METAL APRONS FOR CORRUGATED METAL PIPE ARCH CULVERTS	EACH		2	2
119	SHAPING AND COMPACTING ROADBED	MILE		6.6	6.6
132	12" REINFORCED CONC. PIPE SEWER (CLASS III)	LIN. FT.	346*	26*	372*
132	18" REINFORCED CONC. PIPE SEWER (CLASS III)	LIN. FT.	44*		44*
132	24" REINFORCED CONC. PIPE SEWER (CLASS III)	LIN. FT.	160*		160*
132	INLET GRATING AND FRAME (NO. 12)	EACH	7	1	8
132	MANHOLES	EACH	2		2
134	22" x 13" CORRUGATED METAL PIPE ARCH CULVERTS	LIN. FT.		78	78
134	29" x 18" ASBESTOS BONDED CORRUGATED METAL PIPE ARCH CULVERTS (BITUMINOUS COATED)	LIN. FT.		50	50
STATE FORCES					
81	PROJECT MARKERS	EACH		1	1
	SIGNING & STRIPING ENTIRE PROJECT (WORK BY STATE FORCES)	LUMP SUM			0

*Type V Cement

FED. ROAD REG. NO.	DIVISION	PROJECT NO.	SHEET NO.	TOTAL SHEETS
9	COLORADO	C-09-0006-25	4	

IT IS ESTIMATED THAT MATERIAL FOR SUB-BASE MATERIAL AND SURFACING FOR THE PROJECT IS AVAILABLE IN THE VICINITY OF THE PIT INDICATED IN THE FOLLOWING TABULATIONS. ESTIMATED QUANTITIES INVOLVED IN THESE OPERATIONS ARE SHOWN BELOW.

ALTERATION OF THE SUB-BASE MATERIAL AND SURFACING PLANS, AS HERE OUTLINED, WILL BE ALLOWED ONLY ON WRITTEN PERMISSION FROM THE DEPARTMENT..

TIMBER GUARD POSTS

STATION	SPACING	SIDE	NEW
			EACH
20+50 TO 23+	6' INTERVAL	LT.	43
22+46	CULVERT	RT.	1
24+10	CULVERT	RT.	1
24+	NOSING	LT.	11
21+16 TO 32+56	4" CURVE	RT.	12
28+35 TO 32+56	4" CURVE	LT.	4
84+	BRIDGE	RT. & LT.	24
181+	BRIDGE	RT. & LT.	24
201+63 TO 211+	1" CURVE	RT. & LT.	22
246+35	CULVERT	RT. & LT.	2
300+50	C.B.C.	RT. & LT.	2
394+50	BRIDGE	RT. & LT.	24
395+ TO 405+	1" CURVE	RT. & LT.	18
TOTALS			188

SUB-BASE MATERIAL PLAN

MATERIAL TO BE PLACED	SOURCE & AVAILABLE	QUANTITY & THICKNESS				TON MILE OVERHAUL	
		CITY SECTION		24' ROADWAY		CITY SECTION	24' ROADWAY
		THICK *T*	TONS CLASS 2	THICK *T*	TONS CLASS 2		
98+39.7 TO 5+07 5+07 TO 33+98.8 BK. 34+00AH TO 83+89.2 85+40.6 TO 107+80	PIT NO. 1 0.3 Miles To Sta. 107+80 Available = 137,000 Cu Yd	4"	1,881	4"	1,706 6,586 2,956	4,549	3,363 8,070 1,514
107+80 TO 180+62 181+38 TO 211+00 231+00 TO 335+00 335+00 TO 393+97.4 395+00 TO 405+38.8	R = 73			4" 4" 4" 9" 9"	9,612 3,910 13,728 11,854 2,088		9,512 7,719 49,670 61,184 12,189
ESTIMATED FOR: APPR. TO PROJ., STA. 98+ APPR. TO PROJ., STA. 405+ CORRECTING IRREGULARITIES IN SUBGRADE FROM LIST OF STRUCTURES			103 188		302 5,244 1,090	268 546	1,801 15,230 3,166
TRANSITION, STA. 5+					40		79
TOTALS			2,172		59,116	5,363	173,497

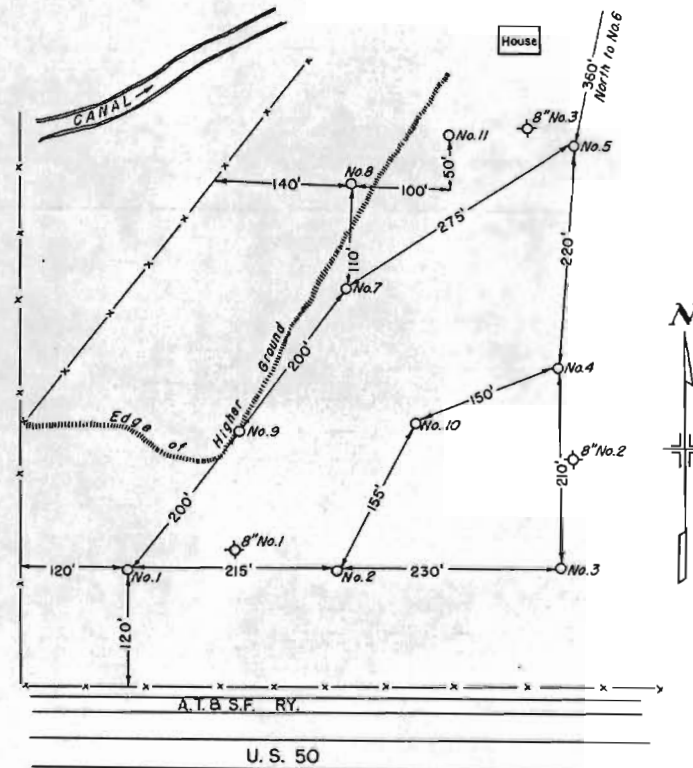
* BASED ON DESIGN CURVE D.

SURFACING PLAN

MATERIAL TO BE PLACED	SOURCE & AVAILABLE	TONS				TON MILE OVERHAUL			
		24' ROADWAY		CITY SECTION		24' ROADWAY		CITY SECTION	
		PLANT MIX	BASE COURSE GRADING C	PLANT MIX	BASE COURSE GRADING C	PLANT MIX	BASE COURSE	PLANT MIX	BASE COURSE
98+39.7 TO 5+07 5+07 TO 33+98.8 BK. 34+00 AH TO 83+89.2 85+40.6 TO 107+80	PIT NO. 1 0.3 Miles To Sta. 107+80 Available = 137,000 Cu Yd	1,851 3,193 1,433	1,128 4,590 2,060	2,118	1,881	3,649 3,912 734	2,224 5,624 1,055	5,122	4,549
107+80 TO 180+62 181+38.0 TO 211+00 231+00 TO 393+97.4 395+00 TO 405+38.8	R = 79	4,660 1,896 10,430 665	6,699 2,725 14,994 956			4,611 3,743 43,562 3,882	6,629 5,379 62,625 5,581		
ESTIMATED FOR: APPR. TO PROJ., 98+ APPR. TO PROJ., 405+ FROM LIST OF STRUCTURES		159 1,085	276 1,785	111 130	103 105	948 2,897	1,646 4,745	302 332	268 226
TRANSITION, 5+ ADDED QUANTITIES FOR CURVE, 26+ CORRECTING IRREGULARITIES IN SUBGRADE BRIDGE WIDENING		45 116 95 33	40 -- -- --			88 228 185 197	79 -- -- --		
TOTALS		25,661	35,253	2,420	2,089	68,636	95,587	5,902	5,043

PIT NO. 1

PROPOSED USE: Sub-base material, surfacing, structure backfill and stone screenings.
 OWNER: Ernest Stiffler
 LOCATION: SE 1/4, SE 1/4 Sec. 15, T.22S, R.59W
 QUANTITY AVAILABLE: 137,000 Cu. Yds.
 HAUL DISTANCE: 0.3 Mi to Sta. 107+80
 ESTIMATED FOR STRIPPING: 15,000 Cu. Yds.

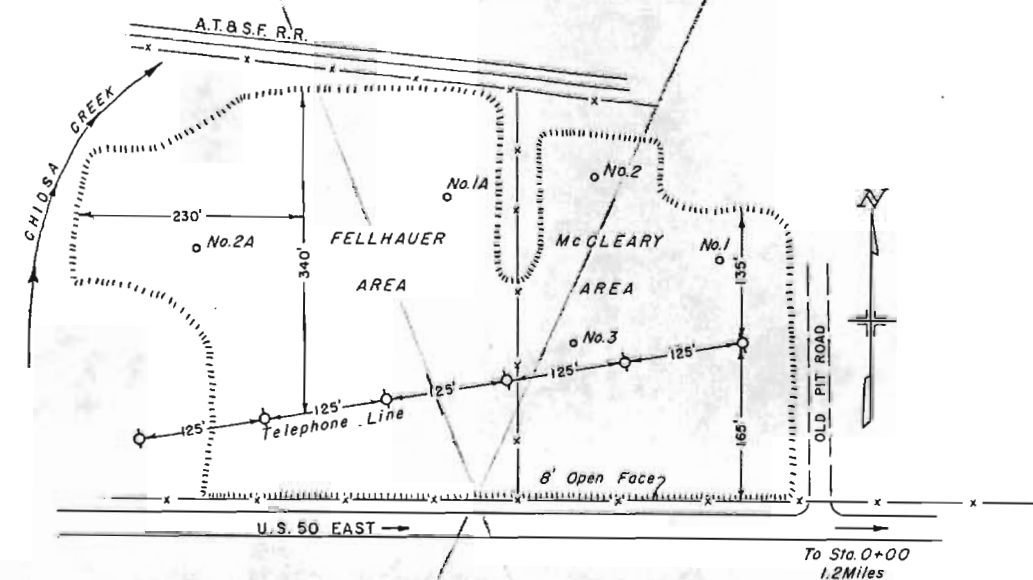


FIELD SAMPLE NO. 2178

TEST NO.	DEPTH IN FEET	DESCRIPTION OF TEST HOLE MATERIAL
1	0.0-1.5	OVERBURDEN
1-A	1.5-12.0+	VERY COARSE & ROCKY SAND & GRAVEL
2	0.0-6.0	OVERBURDEN
2-A	6.0-12.0+	FINE SAND & GRAVEL
3	0.0-6.0	OVERBURDEN
3-A	6.0-12.0+	VERY COARSE SAND & GRAVEL
4	0.0-6.0	OVERBURDEN
4-A	6.0-12.0	VERY FINE SAND & GRAVEL
5	0.0-4.0	OVERBURDEN
5-A	4.0-12.0+	COARSE SAND & GRAVEL
6	0.0-5.0	OVERBURDEN
6-A	5.0-9.0+	COARSE TO FINE SAND & GRAVEL (Water at 9.0')
7	0.0-2.0	OVERBURDEN
7-A	2.0-12.0+	FINE SAND & GRAVEL
8	0.0-5.5	OVERBURDEN
8-A	5.5-10.0+	COARSE SAND & GRAVEL (Water at 10.0')
9	0.0-0.5	OVERBURDEN
9-A	0.5-12.0+	VERY COARSE & ROCKY SAND & GRAVEL
10	0.0-3.0	OVERBURDEN
10-A	3.0-12.0+	FINE SAND & GRAVEL
11	0.0-3.0	OVERBURDEN
11-A	3.0-12.0+	ROCKY SAND & GRAVEL
McGARTHY 8 INCH DRILL HOLES		
1	0.0-1.5	OVERBURDEN
1-A	1.5-23.0	SAND & GRAVEL (Water at 14.0')
1-B	23.0-25.0+	SHALE
2	0.0-5.0	OVERBURDEN
2-A	5.0-27.5	SAND & GRAVEL (Water at 18.0')
2-B	27.5-28.0+	SHALE
3	0.0-5.0	OVERBURDEN
3-A	5.0-22.0	SAND & GRAVEL (Water at 16.0')
3-B	22.0-22.5+	SHALE

PIT NO. 2

PROPOSED USE: Fellhauer & McCleary
 OWNER: Fellhauer & McCleary
 LOCATION: SE 1/4 of NE 1/4 of Sec. 11 & SW 1/4 of NW 1/4 of Sec. 12, T.22S., R.60 W.
 QUANTITY AVAILABLE: 55,000 Cu. Yds.
 HAUL DISTANCE: 1.2 Miles to Sta. 0+00
 ESTIMATED FOR STRIPPING:

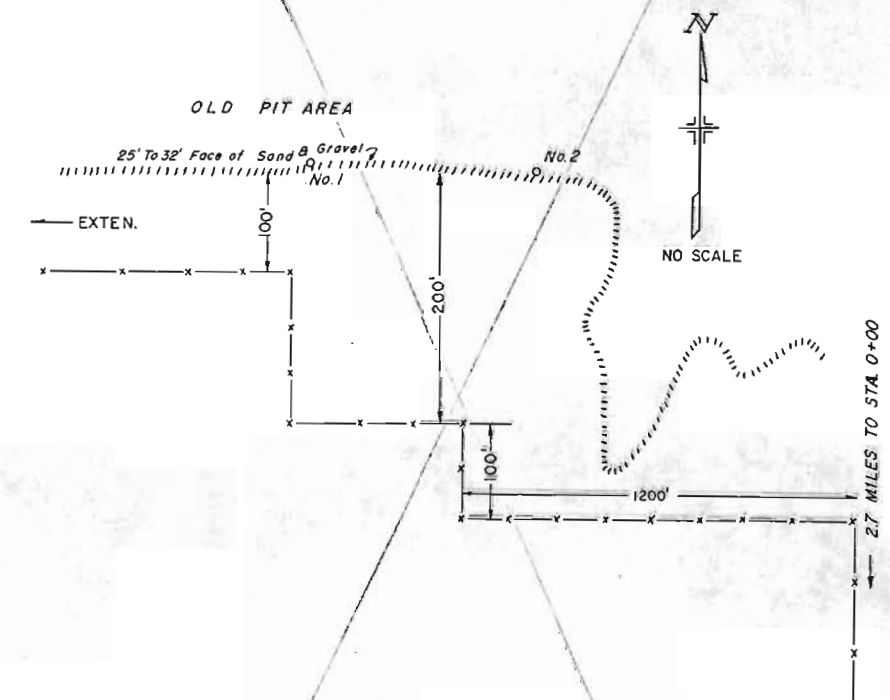


FIELD SAMPLE NO. 2163

TEST NO.	DEPTH IN FEET	DESCRIPTION OF TEST HOLE MATERIAL
McCleary Area		
1	0.0-2.0	OVERBURDEN
	2.0-13.0	SAND & GRAVEL
	13.0+	CLAY SHALE
2	0.0-8.0	SAND & GRAVEL
	8.0+	CLAY SHALE
3	0.0-2.0	OVERBURDEN
	2.0-9.0	SAND & GRAVEL
Fellhauer Area		
1A	0.0-2.5	OVERBURDEN
	2.5-10.0	SAND & GRAVEL
	10.0+	CLAY SHALE
2A	0.0-1.0	OVERBURDEN
	1.0-9.0	SAND & GRAVEL
	9.0+	OVERBURDEN

PIT NO. 3

PROPOSED USE: Roger L. Fellhauer
 OWNER: Roger L. Fellhauer
 LOCATION: NE 1/4, Sec. 10, T.22S., R.60W.
 QUANTITY AVAILABLE: 100,000 Cu. Yds.+
 HAUL DISTANCE: 2.7 Miles to Sta. 0+00
 ESTIMATED FOR STRIPPING:



FIELD SAMPLE NO. 2164

TEST NO.	DEPTH IN FEET	DESCRIPTION OF TEST HOLE MATERIAL
1	0.0-2.5	OVERBURDEN
1A	2.5-25.0	SAND & GRAVEL
2	0.0-4.0	OVERBURDEN
2A	4.0-32.0	SAND & GRAVEL

LIST OF STRUCTURES

FED. ROAD REGION NO.	DIVISION	PROJECT NO.	SHEET NO.	TOTAL SHEETS
8.	COLO.	009-0006-25	6	

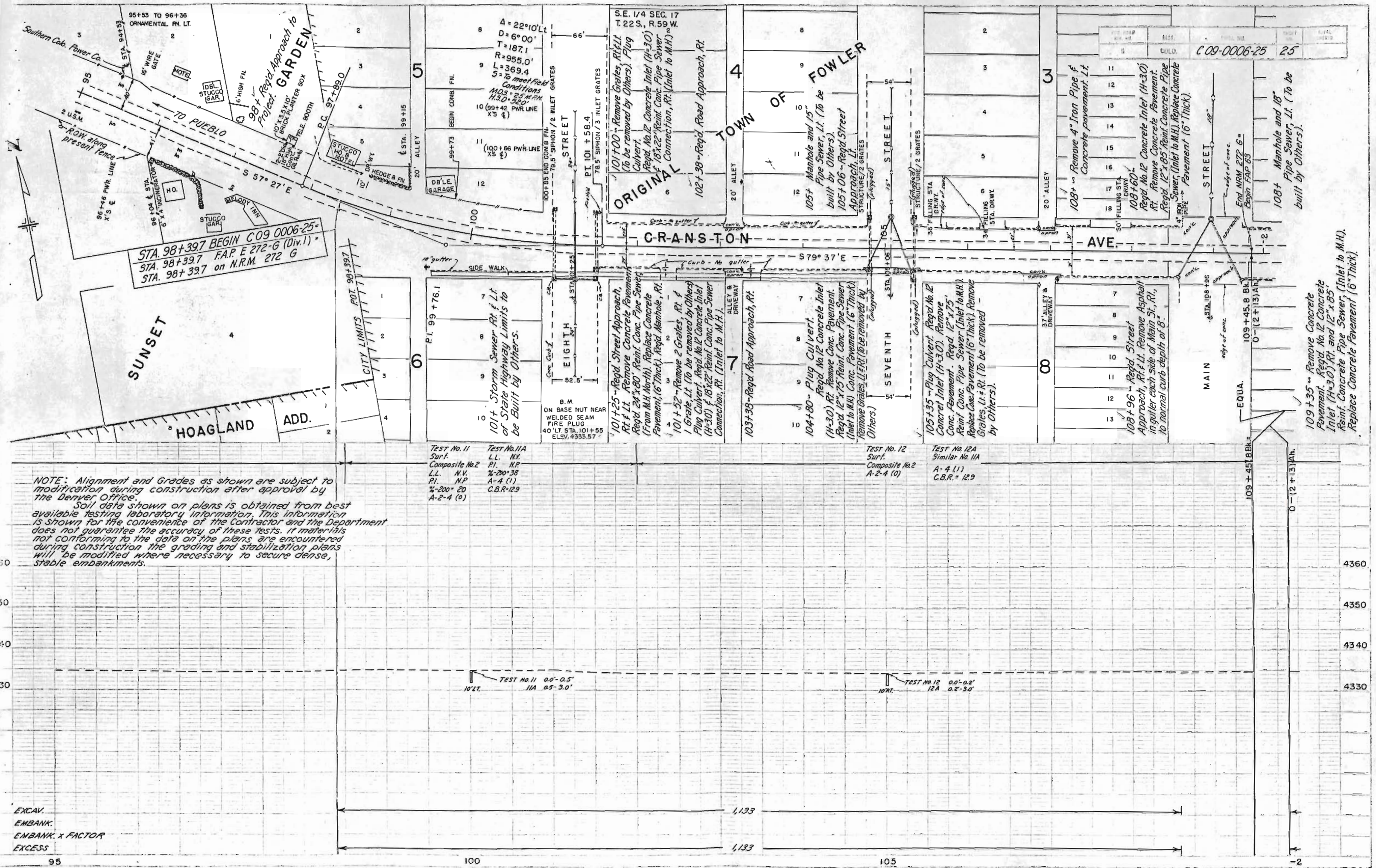
LOCATION	DESCRIPTION	REMOVE STRUCTURE		EXCAVATION			UNCLASSIFIED STRUCTURAL EXCAVATION			STRUCTURE BACKFILL		INLET GRATING & FRAME NO. 12	GRAVEL OR CRUSHED ROCK SURFACING	PLANT MIXED ASPHALTIC SURFACING 2" THICK	CONCRETE		REINFORCING STEEL	SUB-BASE MATERIAL CLASS 2	* REINFORCED CONCRETE PIPE SEWER (CLASS III)	ASBESTOS BONDED CMP ARCH CULVERTS (BITUMINOUS COATED)	CORRUGATED METAL CULVERT PIPE	REINFORCED CONCRETE CULVERT PIPE (CLASS III)	METAL APRONS FOR C.M.P. CULVERTS		MISCELLANEOUS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
				CUBIC YARDS			CUBIC YARDS			CUBIC YARDS					CUBIC YARDS								LIN. FT.	LIN. FT.		LIN. FT.	LIN. FT.	EACH																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
		NO.	KIND	UNCL.	EMB.	UNCL. DITCH	MISC.	CL. 1	EACH	TONS	TONS	CL. "A"	CL. "B"	LBS.	TONS	12"	18"	24"	29"x18"	18"	36"	18"							18"	24"																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									

LIST OF STRUCTURES

FED. ROAD REGION NO.	DIVISION	PROJECT NO.	SHEET NO.	TOTAL SHEETS
9.	COLO.	C09-0006-25	7	

LOCATION	DESCRIPTION	REMOVE STRUCTURE		EXCAVATION			UNCLASSIFIED STRUCTURAL EXCAVATION			STRUCTURE BACKFILL	INLET GRATING & FRAME NO. 12	GRAVEL OR CRUSHED ROCK SURFACING	PLANT MIXED ASPHALTIC SURFACING 2" THICK	* CONCRETE	REINFORCING STEEL	SUB-BASE MATERIAL CLASS 2	* REINFORCED CONCRETE PIPE SEWER (CLASS III)	ASBESTOS BONDED CMP ARCH CULVERTS (BITUMINOUS COATED)	CORRUGATED METAL CULVERT PIPE	REINFORCED CONCRETE CULVERT PIPE (CLASS III)	METAL APRONS FOR C.M.P. CULVERTS		MISCELLANEOUS		
		NO.	KIND	CUBIC YARDS			CUBIC YARDS			CUBIC YARDS	EACH	TONS	TONS	CUBIC YARDS		TONS	LIN. FT.			LIN. FT.				EACH	
				UNCL.	EMB.	UNCL. DITCH	MISC.	CL 1	CL "A"	CL "B"				LBS.	TONS		12"	18"	24"	29" x 18"	18"	36"		18"	24"
80+88 84+ 85+82					240							60	30			15									
91+06 94+ to 106+ 96+87					300							15	10			10									
107+69 107+85 109+08												25 60 15	15 30 10			10 15 10									
111+46 119+11 120+91		1					20		10			15 15 15	10 10 10			10 10 10					30				
121+18 134+81 145+82		1					10		6			25 60 25	15 30 15			10 20 10					30				
153+20 161+40 161+53												25 25 60	15 15 30			10 10 20									
162+31 175+33 180+					240							15 15	10 10			10 10									
181+29 181+50 211+												15 25 175	10 15 110			10 10 110									
231+ 234+75 246+					325		15		6			170 25	110 15			110 10					30				
256+43 268+83 287+88												15 15	10 10			30 60 10									
297+ to 302+ 300+50		2		1130	950 600		80		10					136.78	11,044				54 54				250 Cu. Yds. Detour Surfacing. 500 Lin. Ft. Remove & Rebuild fence. 1- Remove Bridge		
322+42 347+80							30		20			120	60			60				40 40			1- Plug Culvert		
348+82 365+15 366+21												25 15 25	15 10 15			10 15 10									
375+50 375+60 376+92												60 15	30 10			25 20 10									
384+34 388+73 394+					325							25 25	15 15			10 10									
395+20 405+ 405+												15 α	10 α			10 α								1- Project Marker (Placed by State Forces)	
TOTAL, CITY SECTION		1		20			35		21	7	105	130	353		490		346	44	160						
TOTAL, 24' ROADWAY		8		2640	1815	10	286		104	1	1785	1085	13729		11,114	1090	26		50	11	108	280	1	2	

▲ Allowance for Connecting Band
* Type V Cement
α Included in Surfacing Plan or Sub-base Material Plan
Ø Included in profile quantities.



STA. 98+39.7 BEGIN C09 0006-25
STA. 98+39.7 F.A.P. E 272-G (Div. 1)
STA. 98+39.7 on N.R.M. 272 G

NOTE: Alignment and Grades as shown are subject to modification during construction after approval by the Denver Office.
Soil data shown on plans is obtained from best available testing laboratory information. This information is shown for the convenience of the Contractor and the Department does not guarantee the accuracy of these tests. If materials not conforming to the data on the plans are encountered during construction the grading and stabilization plans will be modified where necessary to secure dense, stable embankments.

TEST No. 11	TEST No. 11A
Surf.	L.L. N.Y.
Composite No. 2	P.I. N.P.
L.L. N.Y.	%-200 38
P.I. N.P.	A-4 (1)
%-200 20	C.B.R. 129
A-2-4 (0)	

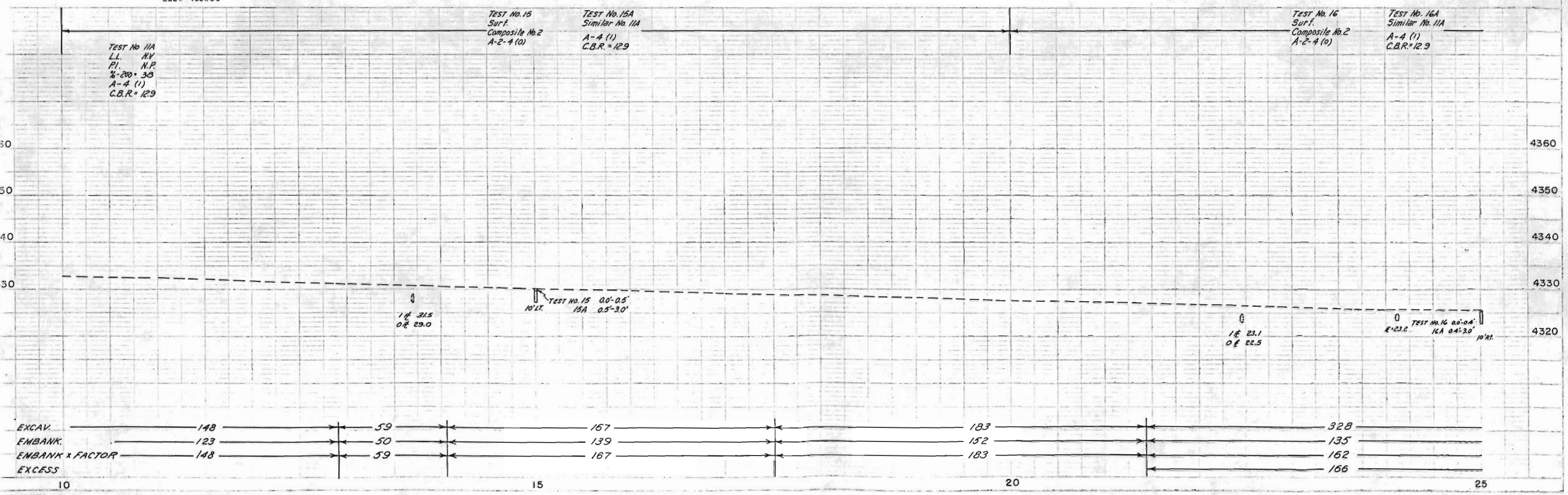
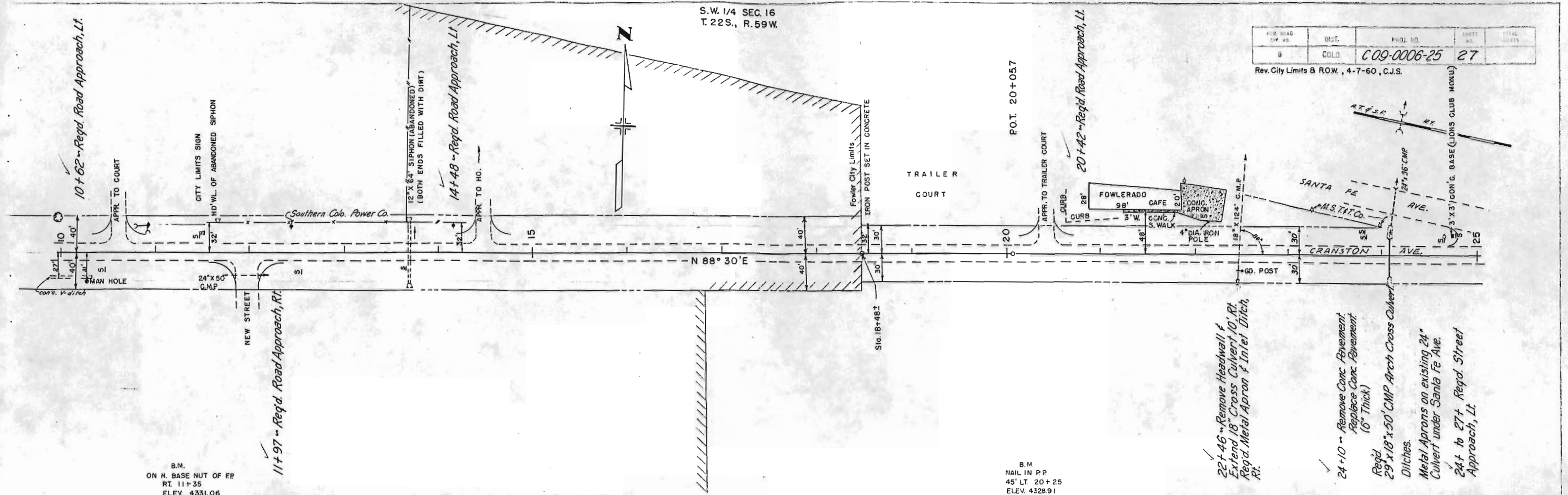
TEST No. 12	TEST No. 12A
Surf.	Similar No. 11A
Composite No. 2	
A-2-4 (0)	A-4 (1)
	C.B.R. 129

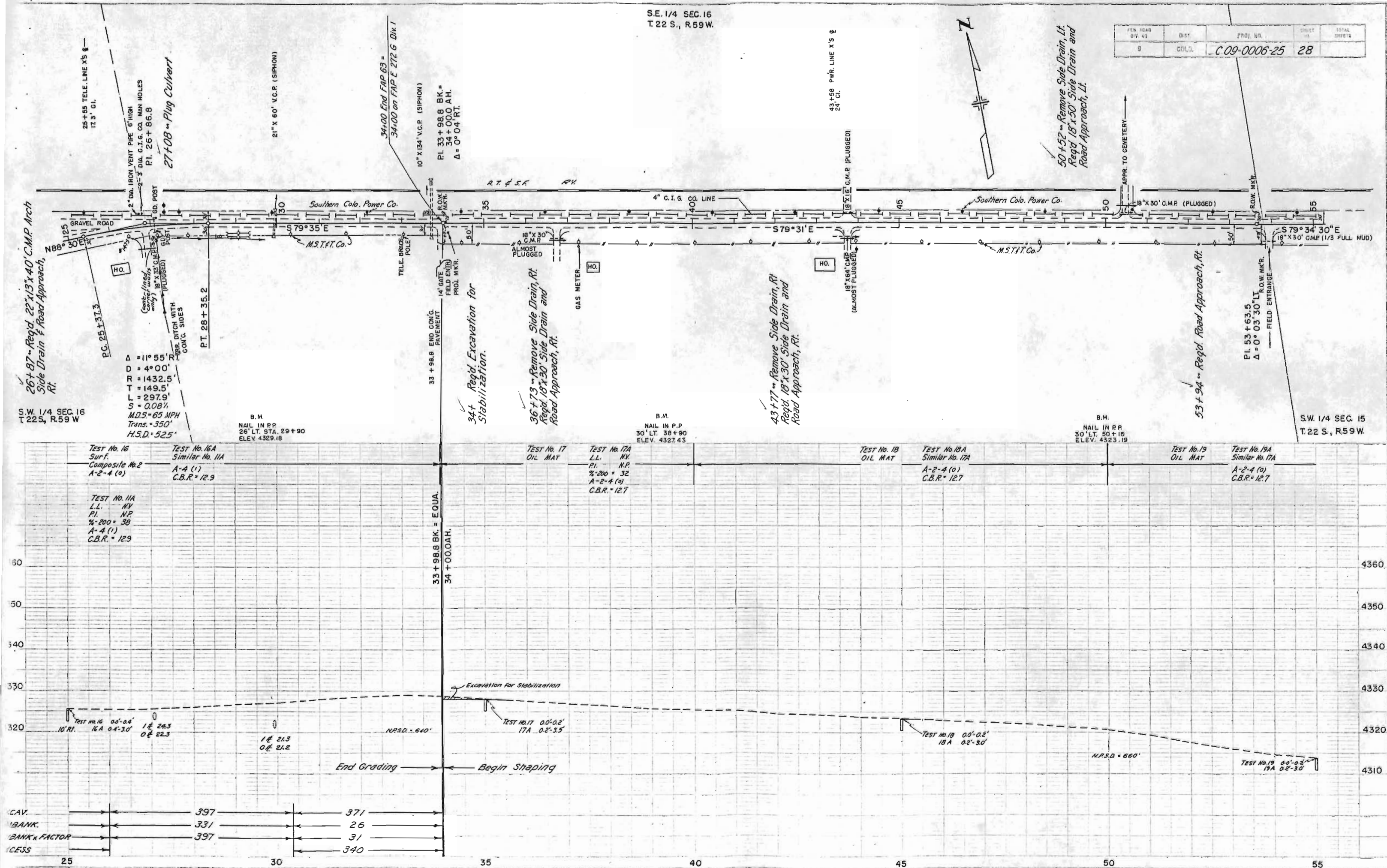
EXCAV.
EMBANK.
EMBANK. x FACTOR
EXCESS

S.W. 1/4 SEC. 16
T. 22S., R. 59W.

PROJ. NO.	SHEET NO.	TOTAL SHEETS
09-0006-25	27	

Rev. City Limits & ROW, 4-7-60, C.J.S.





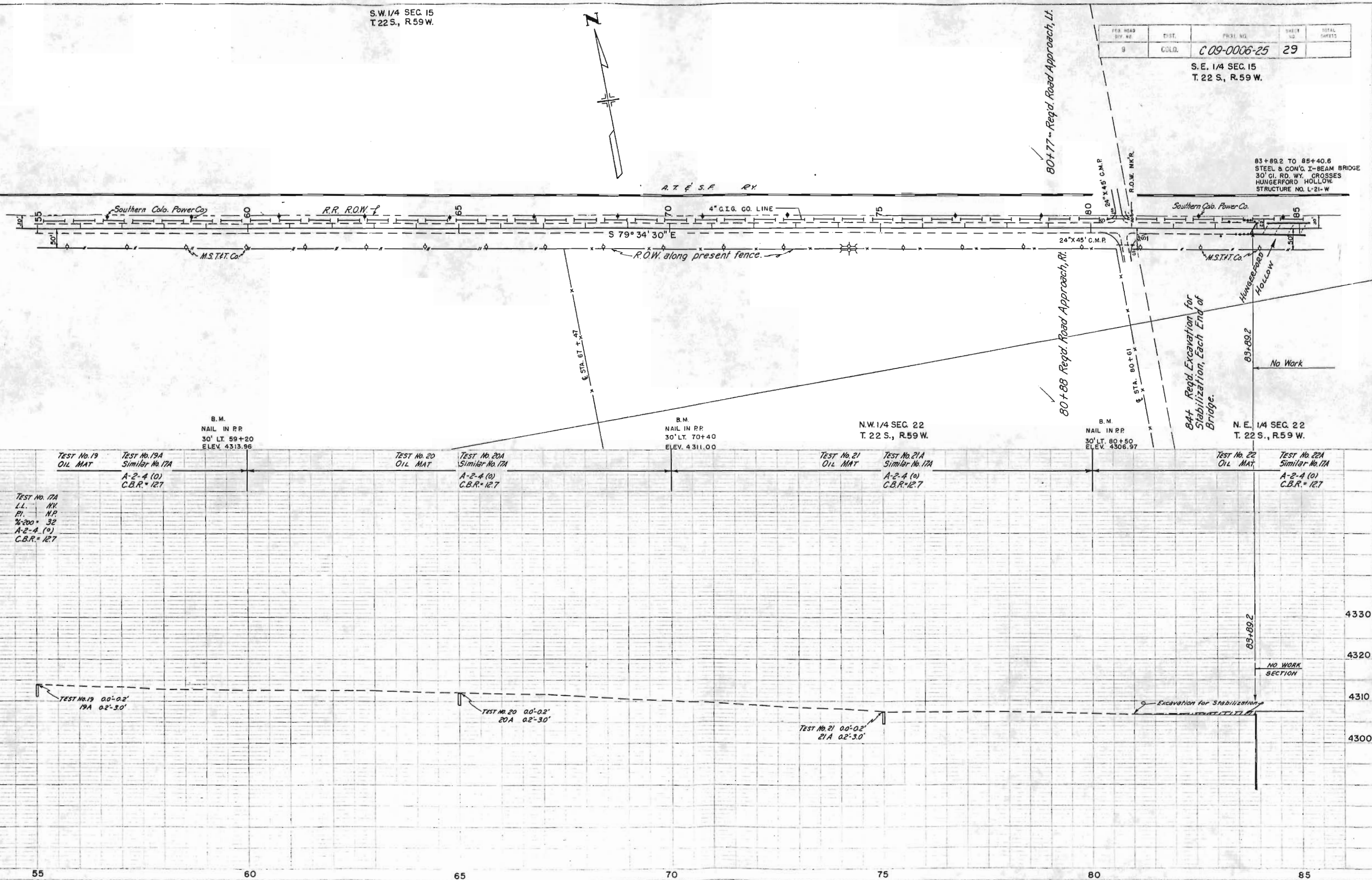
S.W. 1/4 SEC. 15
T.22 S., R.59 W.



PER. ROAD DIV. NO.	DIST.	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLD.	C 09-0006-25	29	

S.E. 1/4 SEC. 15
T.22 S., R.59 W.

83+89.2 TO 85+40.6
STEEL & CON'G. T-BEAM BRIDGE
30' CI. RD. WY. CROSSES
HUNGERFORD HOLLOW
STRUCTURE NO. L-21-W



S.E. 1/4 SEC. 15
T. 22 S., R. 59 W.

S.W. 1/4 SEC. 14
T. 22 S., R. 59 W.

REG. ROAD CIV. NO.	EXIST.	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLD	C 09-0006-25	30	

+89.2 TO 85+40.6
TEL. & CONC. T-BEAM BRIDGE
OL. RD. WY. CROSSES
WATERFORD HOLLOW.

85+15 P.W.R. LINE X'S &
27' CL

PI. 95+00
 $\Delta = 0^{\circ} 04' RT.$

107+69 Reg'd Road
Approach, Lt.

15

23

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III+12 P.W.R. LINE X'S &
25' CL

Southern Colo. Power Co.

R.O.W. along
present fence.

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91+06 Reg'd Road
Approach, Rt.

B.M.
NAIL IN PP
30' LT. 90+60
ELEV. 4311.19

N.E. 1/4 SEC. 22
T. 22 S., R. 59 W.

B.M.
NAIL IN PP
30' LT. 99+65
ELEV. 4316.02

N.W. 1/4 SEC. 23
T. 22 S., R. 59 W.

TEST No. 22
OIL MAT

TEST No. 22A
Similar No. 17A
A-2-4 (0)
C.B.R. = 12.7

TEST No. 23
OIL MAT

TEST No. 23A
LL. NY
PI. N.P.
%-200 = 49
A-4 (3)
C.B.R. = 11.5

TEST No. 24
OIL MAT

TEST No. 24A
Similar No. 23A
A-4 (3)
C.B.R. = 11.5

TEST No. 17A
LL. NY
PI. N.P.
%-200 = 32
A-2-4 (0)
C.B.R. = 12.7

85+40.6

NO WORK
SECTION

Excavation for Stabilization

TEST No. 22 0.0'-0.2'
22A 0.2'-3.0'

TEST No. 23 0.0'-0.2'
23A 0.2'-3.0'

N.P.S.D. = 700'

1E 12B
0E 12E

1E 13B
0E 13E

TEST No. 24 0.0'-0.2'
24A 0.2'-3.0'

85

90

95

100

105

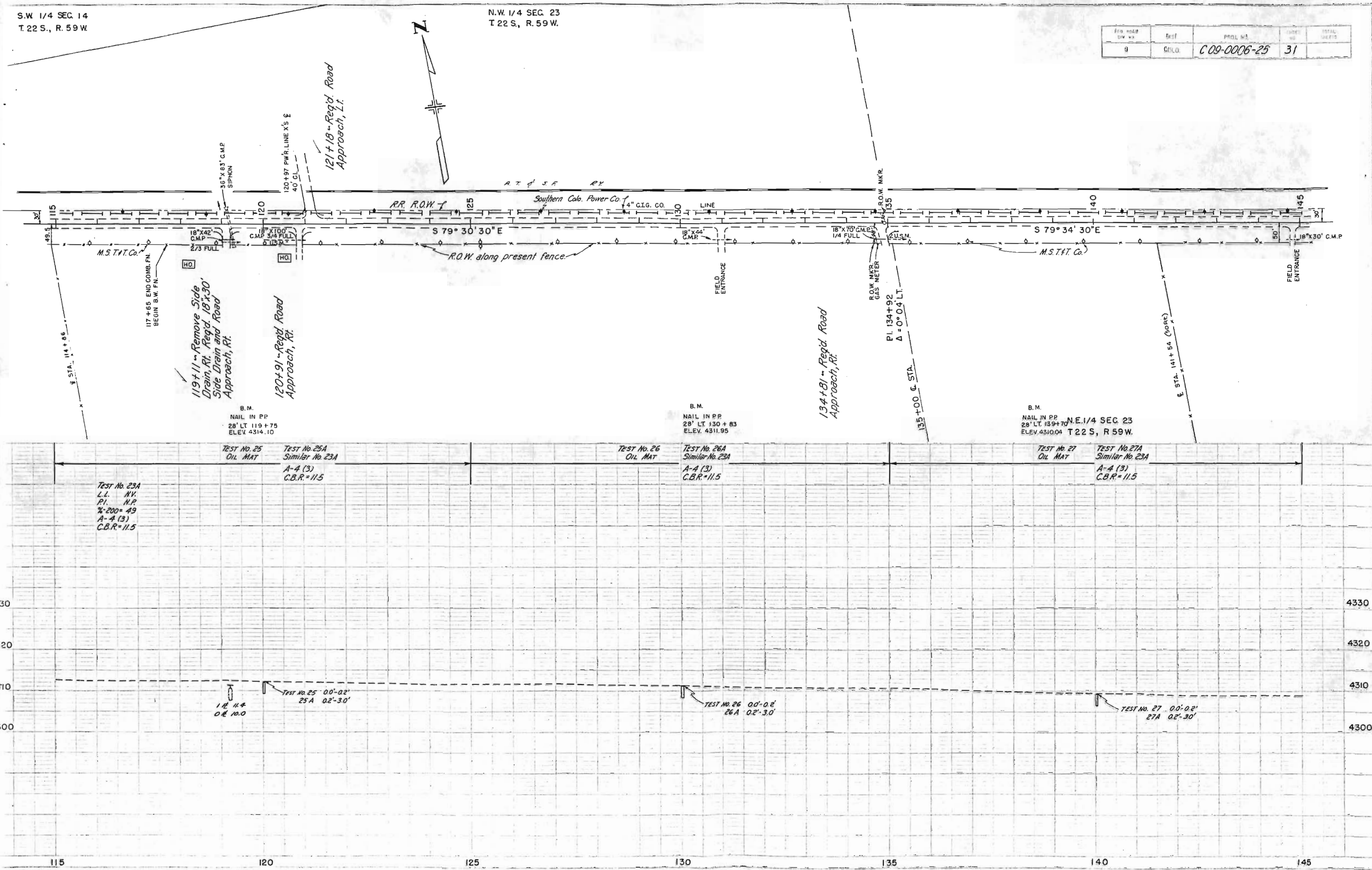
110

115

S.W. 1/4 SEC. 14
T. 22 S., R. 59 W.

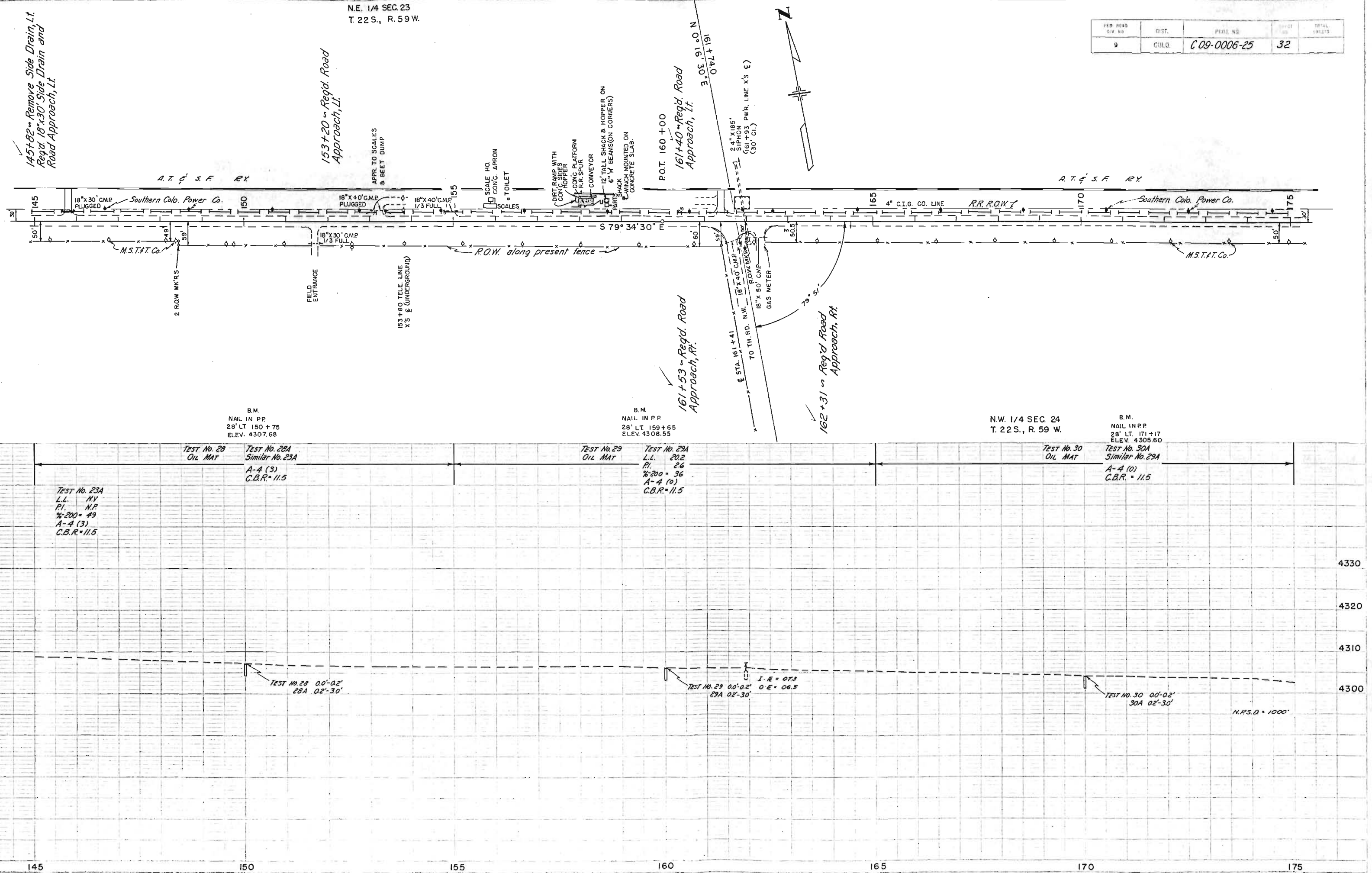
N.W. 1/4 SEC. 23
T. 22 S., R. 59 W.

FILE NO.	DATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
9	CHLO.	C 09-0006-25	31	

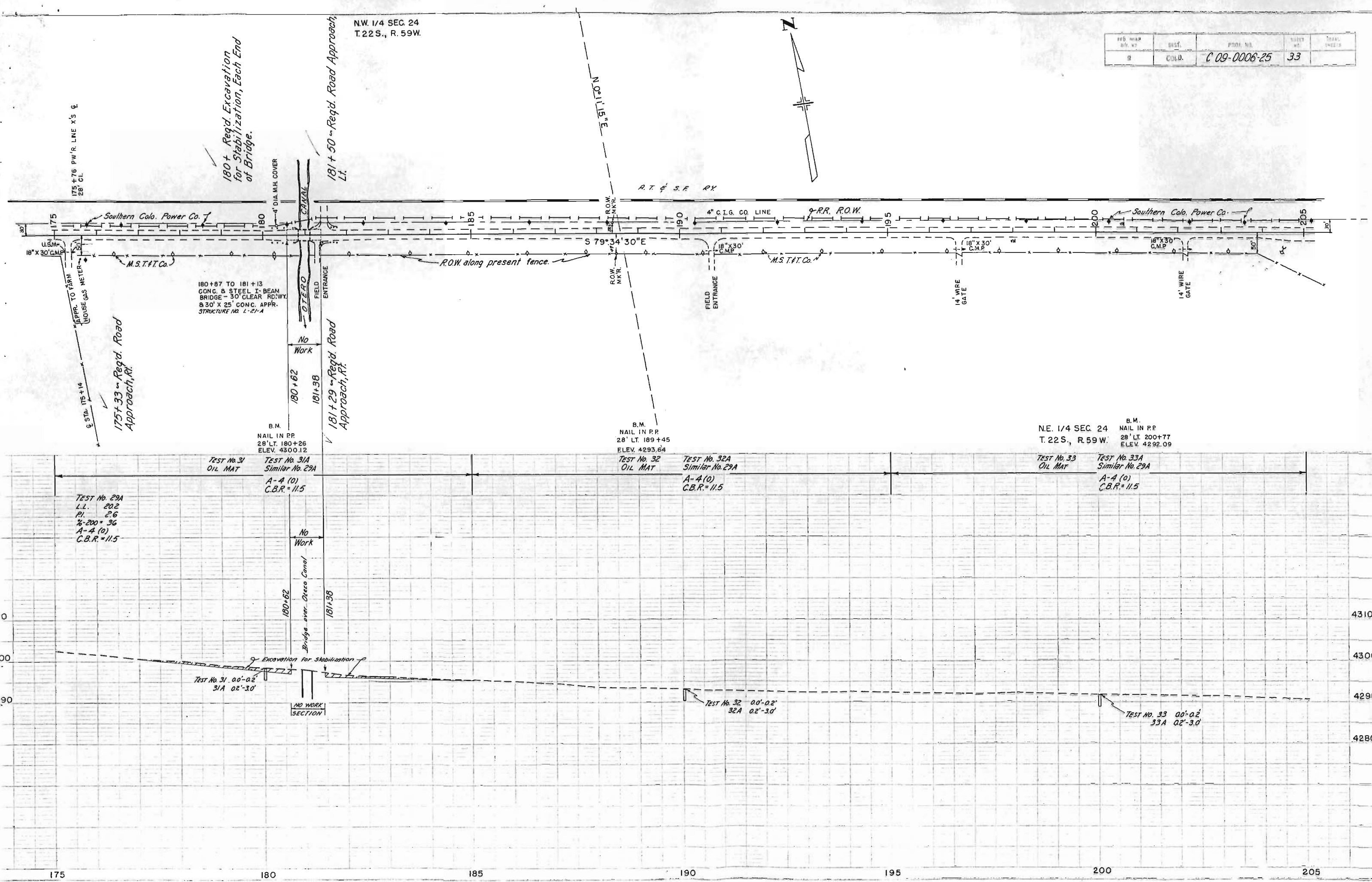


N.E. 1/4 SEC. 23
T. 22 S., R. 59 W.

FED. ROAD DIST. NO.	DIST.	PROJECT NO.	SHEET NO.	TOTAL SHEETS
9	GULF.	C 09-0006-25	32	



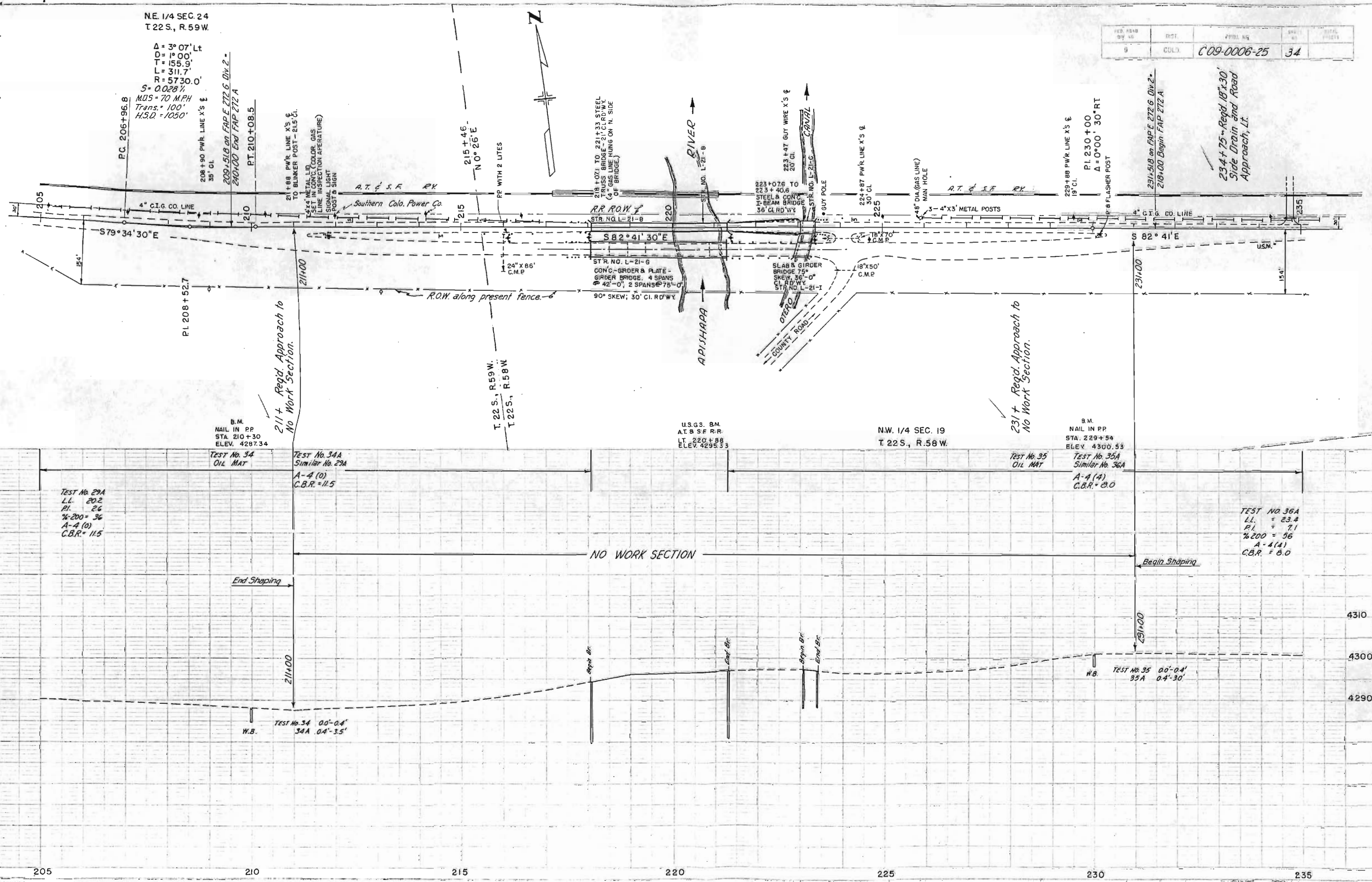
PROJ. NO.	SHEET NO.	TOTAL SHEETS
C 09-0006-25	33	



NE 1/4 SEC. 24
T 22 S, R. 59 W.

$\Delta = 3^\circ 07' \text{ Lt}$
 $D = 1^\circ 00'$
 $T = 155.9'$
 $L = 311.7'$
 $R = 5730.0'$
 $S = 0.028\%$
 $MDS = 70 \text{ M.P.H.}$
 $Trans. = 100'$
 $H.S.D. = 1050'$

FEED ROAD	DIST.	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	CUL.	C09-0006-25	34	



N.W. 1/4 SEC. 19
T.22 S., R.58 W.

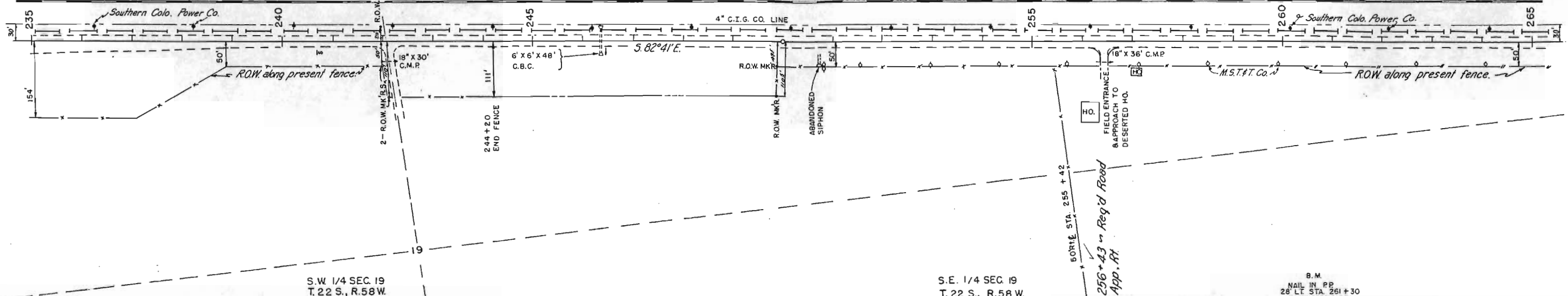
N.E. 1/4 SEC. 19
T. 22 S., R.58 W.

FILE NO.	DIST.	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLD.	C 09-0006-25	35	

246+ Reg'd Excavation
for Stabilization.

P.O.T. 250+00

A.T. & S.F. RY



TEST No. 36
OIL MAT

TEST No. 36A
L.L. 23.4
P.I. 7.1
%200 = 56
A-4 (4)
C.B.R. = 8.0

TEST No. 36B
OLD OIL MAT

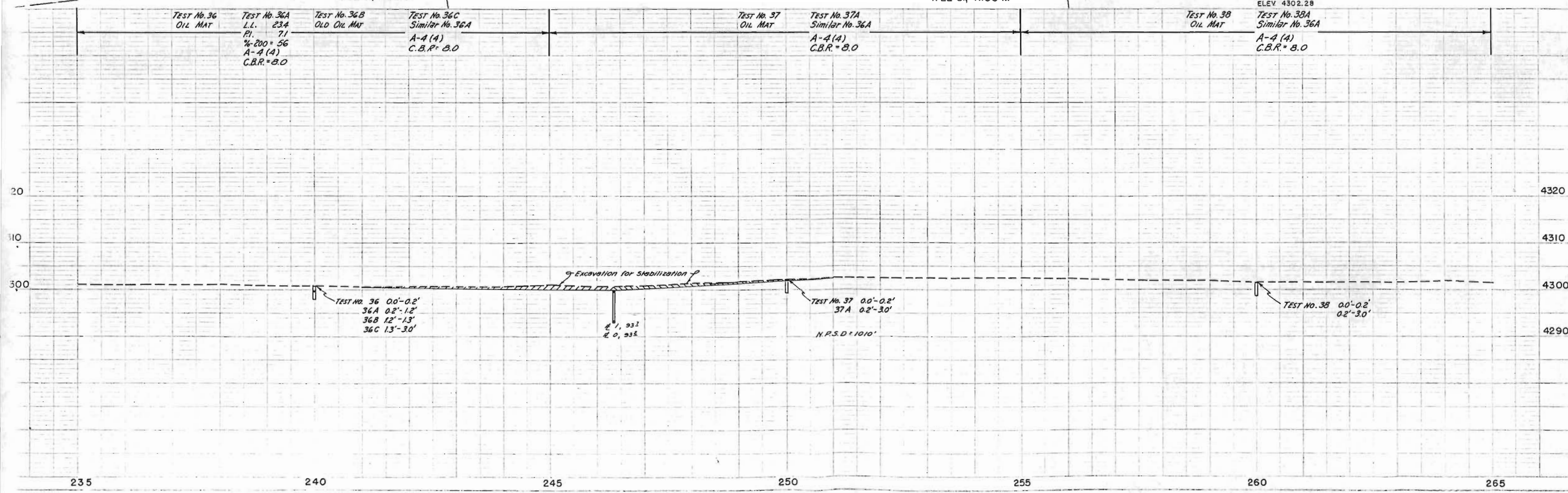
TEST No. 36C
Similar No. 36A
A-4 (4)
C.B.R. = 8.0

TEST No. 37
OIL MAT

TEST No. 37A
Similar No. 36A
A-4 (4)
C.B.R. = 8.0

TEST No. 38
OIL MAT

B.M.
NAIL IN PP
28' LT STA. 261+30
ELEV. 4302.28
TEST No. 38A
Similar No. 36A
A-4 (4)
C.B.R. = 8.0



Contractor Note:
Check with Gas Co. before
excavating in vicinity of C.B.C.
Sta. 300±

REG. NAME DIV. NO.	EST.	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLD.	C 09-0006-25	37	

322 + 42 ~ Req'd. 18" x 40"
Side Drain & Road
Approach, Rt. & Lt.

321 + 82 PW'R. LINE X'S Q
26' CL.
TO MANZANOLA AIRPORT-
322+70
003' 30"E.

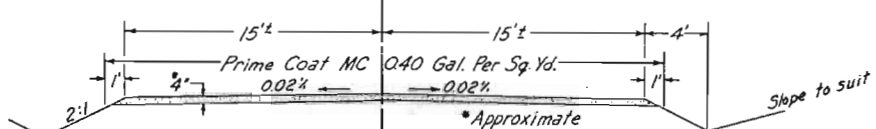
300+32.6 TO
300+70.6
CONC & STEEL
I-BEAM BRIDGE
24.5' CL. RD'WY.
STRUCTURE NO. L-24-D₂

✓ 300+504 Remove Bridge.
Req'd. 12'x8'x 63' C.B.C.
(Type 12-A) Str. No. L-21-b

Note: Removed Concrete to be disposed of within Project Limits as directed by the Engineer

297+ to 302+ Req'd. Detour
and Double 36"x54" C.M.P. Rt.
Remove Detour & Double C.M.P., Rt.
Remove & Rebuild Fence, Rt.

TYPICAL DETOUR SECTION
STA. 297+ to 302+



Approximate 4" Compacted thickness of Detour Surfacing Shall be placed at the rate of 50 Cu. Yds. per 100 Lin. Ft. of Detour.

B.M.
NAIL IN RP
28' LT. 310 + 35
ELEV. 4291.12

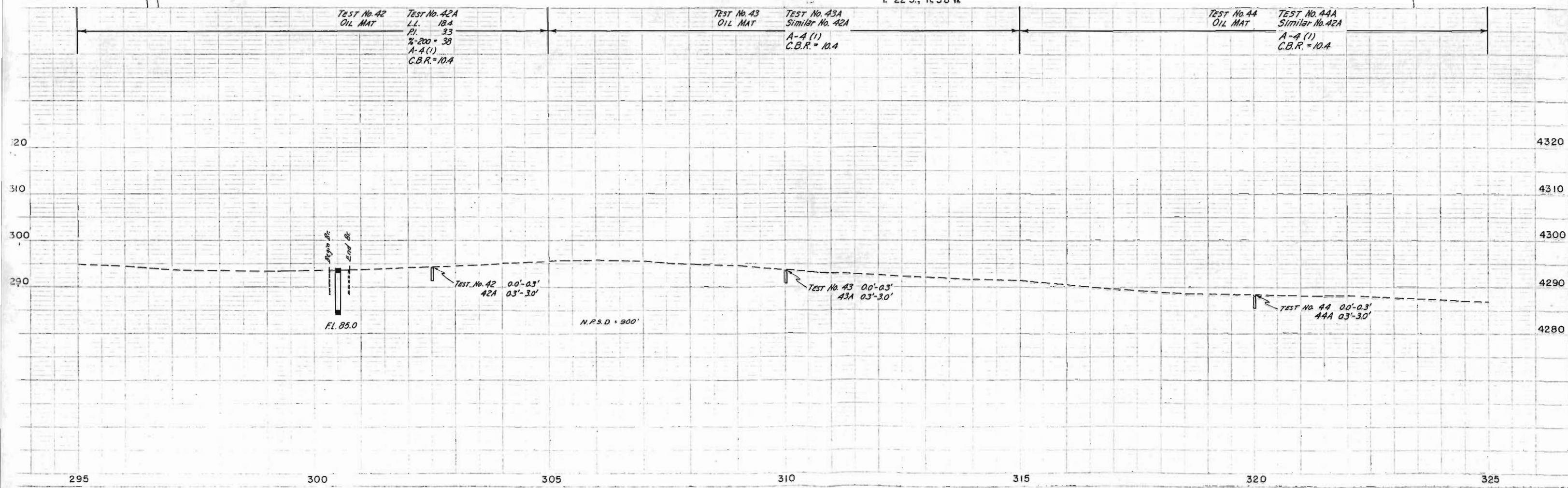
S. E. 1/4 SEC. 20
T. 22 S., R. 58 W.

B.M.
NAIL IN TELE. P.
RT. STA. 319+25
ELEV. 4287.12

S.W. 1/4 SEC. 21
T. 22 S., R 58 W.

B.M.
NAIL IN N.W. POST
W. END BRIDGE
LEFT 300+00
ELEV. 4292.91

TEST No. 42 OIL MAT	TEST No. 43 OIL MAT	TEST No. 44 OIL MAT
TEST No. 42A L.L. 18.4 P.L. 3.3 % 200 = 38 A-4 (1) C.B.R. = 10.4	TEST No. 43A Similar No. 42A A-4 (1) C.B.R. = 10.4	TEST No. 44A Similar No. 42A A-4 (1) C.B.R. = 10.4



S.W. 1/4 SEC. 21
T. 22 S., R. 58 W.

FEED ROAD	DATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
9	CULV.	C 09-0006-25	38	

330+46 P.W.R. LINE X'S &
27' CL.

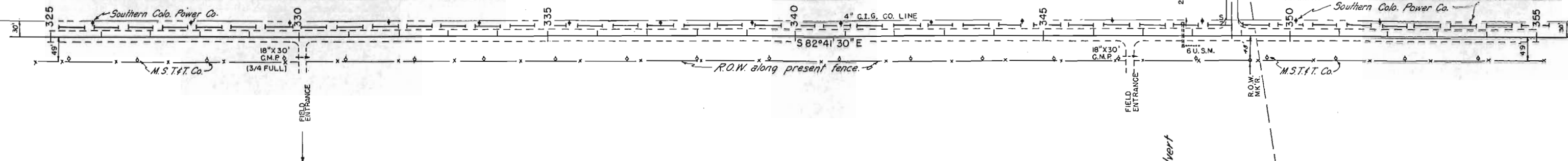
A.T. & S.F. RY



348+82 - Reg'd. Road
Approach, Lt.

2' X 2' X 41' C.B.C.

CL STA. 348+82



B.M. U.S.G.S.
RIVET IN S.E. COR RR CABLE POST
LT STA. 328+61
ELEV. 4285.62

TEST No. 45
OIL MAT
TEST No. 45A
Similar No. 42A
A-4 (1)
C.B.R. = 10.4

TEST No. 42A
L.L. 18.4
P.I. 3.3
% 200 = 38
A-4 (1)
C.B.R. = 10.4

B.M.
NAIL IN TELE. POLE
49' RT. STA. 340+15
ELEV. 4284.22

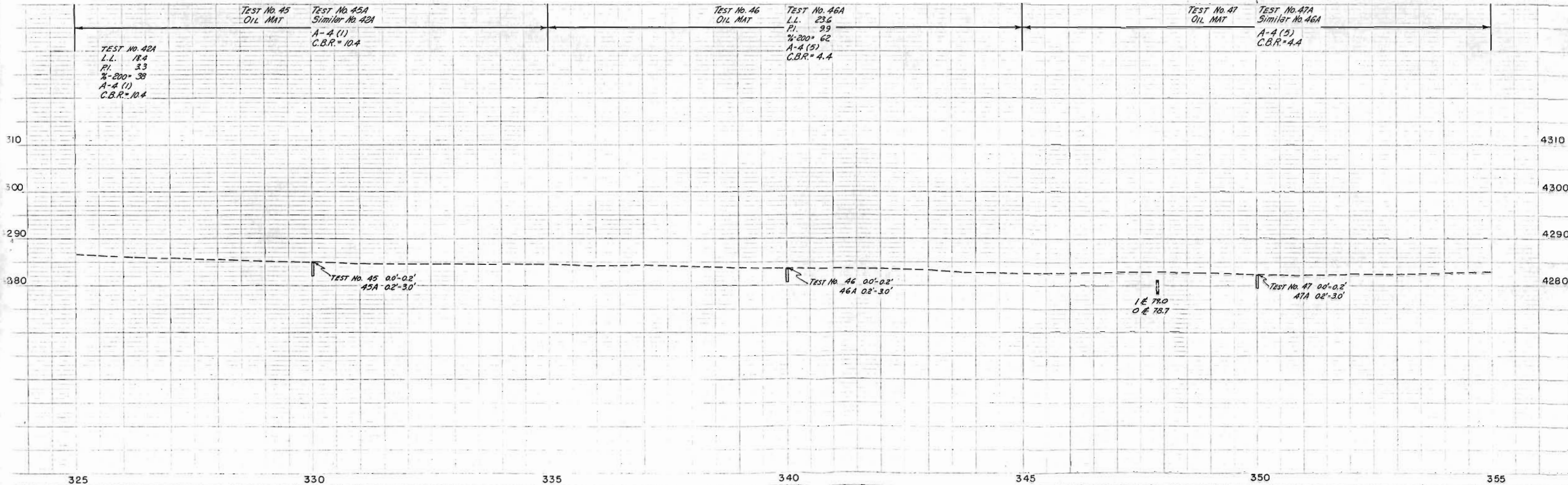
TEST No. 46
OIL MAT
TEST No. 46A
L.L. 23.6
P.I. 2.9
% 200 = 62
A-4 (5)
C.B.R. = 4.4

B.M.
NAIL IN TELE. POLE
49' RT. STA. 349+80
ELEV. 4283.04

TEST No. 47
OIL MAT
TEST No. 47A
Similar No. 46A
A-4 (5)
C.B.R. = 4.4

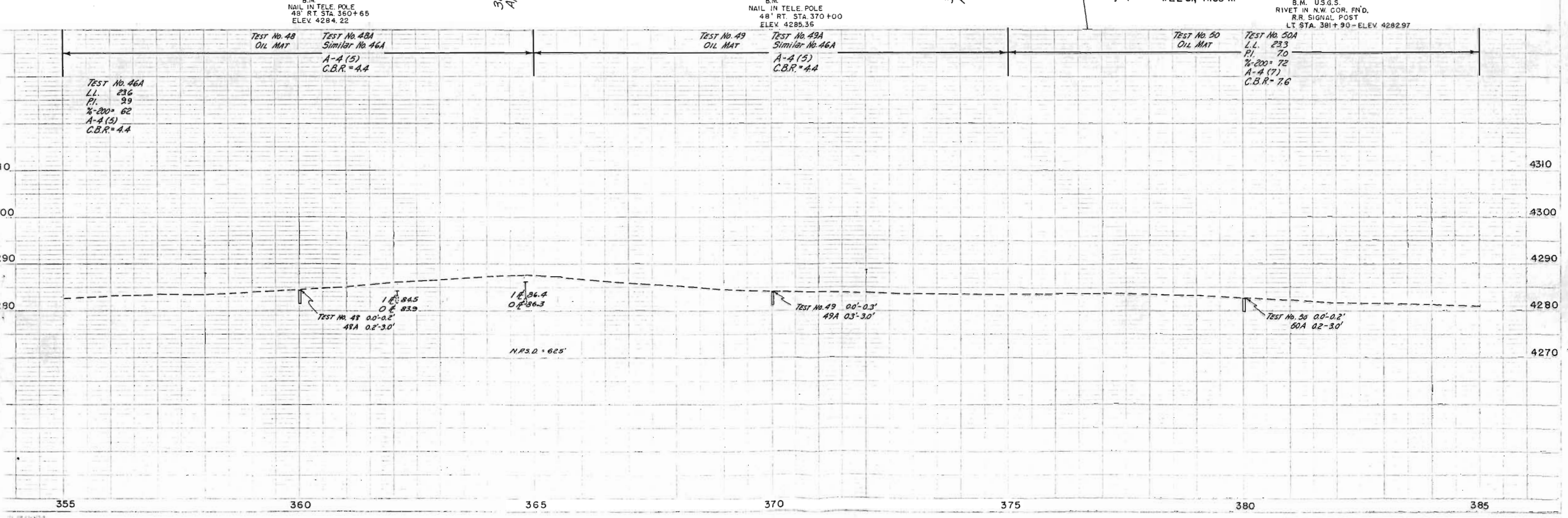
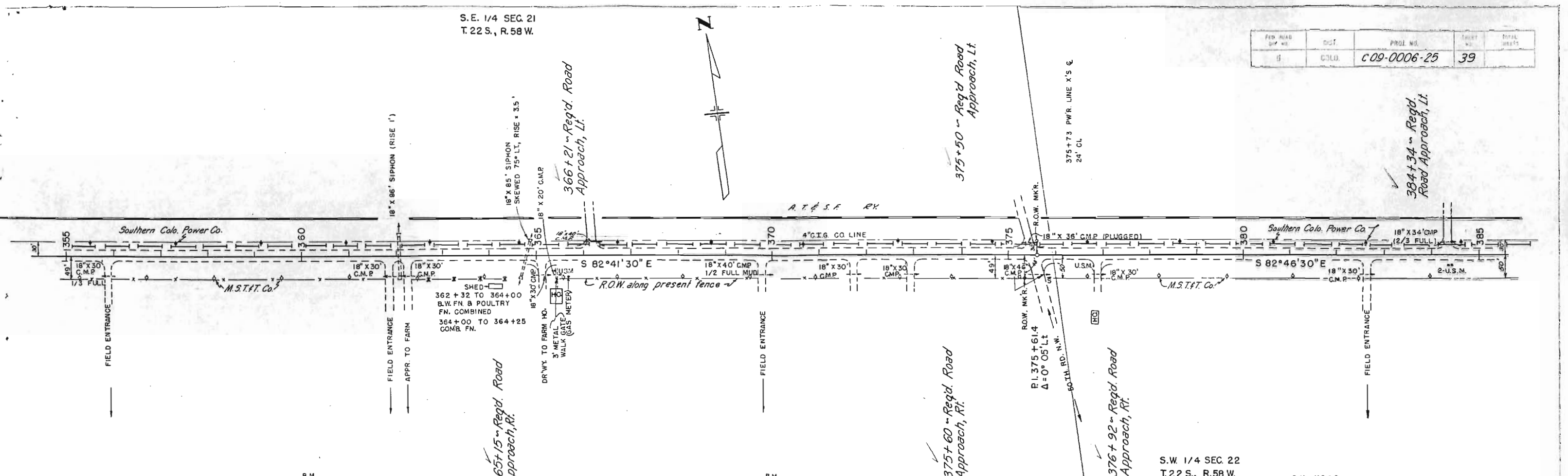
S.E. 1/4 SEC. 21
T. 22 S., R. 58 W.

347+80 - Plug Culvert



S.E. 1/4 SEC. 21
T.22 S., R.58 W.

FED. AID	DIST.	PROJ. NO.	SHEET NO.	TOTAL SHEETS
0	COLD.	C09-0006-25	39	



S.W. 1/4 SEC. 22
T 22 S., R. 58 W.

388+73 ~ Reg'd. Road
Approach, Lt.

394+ Reg'd. Excavation
for Stabilization, each end
of Bridge.

405+ Reg'd. Approach
to Project.

P.I. 405+38.8

409+37 P.W.R. LINE X'S &
17.3' CL

FED. ROAD DIST. NO.	DIST.	PROJECT NO.	SHEET NO.	TOTAL SHEETS
9	COLD.	C 09-0006-25	40	

