

J E F F E R S O N

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FED. ROAD DIST. NO.	STATE	JEFFERSON CO. 3% GAS TAX FUND PROJ. (1939)	SHEET NO.	TOTAL SHEETS
3	COLO.		1	

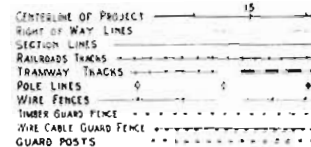
COLORADO STATE HIGHWAY DEPARTMENT

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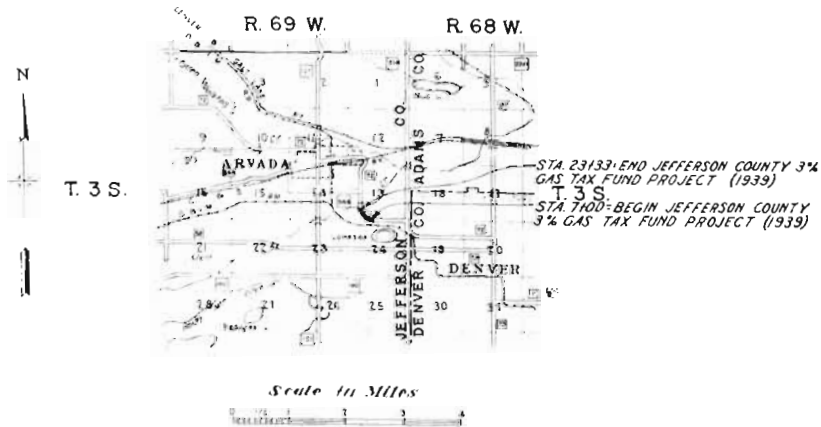
SHEET NO.	1- TITLE SHEET	
" "	2- TYPICAL SECTION AND SUMMARY	
" "	3- STANDARD HEADWALLS FOR C.M.P. CULVERTS	M102E
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" "	8- TYPICAL SIDE APPROX. ROADS AND TRAFFIC SIGNS	M2B
" "	9- PLAN AND PROFILE	
" "	10-24 CROSS SECTION	

PLAN AND PROFILE OF PROPOSED JEFFERSON COUNTY 3% GAS TAX FUND PROJECT (1939) STATE HIGHWAY NO. 72 JEFFERSON COUNTY

CONVENTIONAL SIGNS



SCALES OF ORIGINAL TRACINGS
 ON PLAN. 1 IN. = 100 FT.
 ON PROFILE 1 IN. = 100 FT. HORIZONTAL
 1 IN. = 70 FT. VERTICAL
 GRADE LINE ON PROFILE IS SHOWN AS GRADE OF FINISHED ROAD
 GROSS LENGTH OF PROJECT } 1,633 FT. = 0.309 MI.
 NET LENGTH OF PROJECT }



Note:
 It is recommended that bidders on this project go over the plan details with one of the following field representatives of this department:
 E.E. Montgomery, Div. Engineer, Denver, Colo.
 Clarence Green, Asst. Engineer, Denver, Colo.

RECOMMENDED FOR APPROVAL
[Signature]
 ASSISTANT ENGINEER
 APPROVED
[Signature]
 STATE HIGHWAY ENGINEER

TYPICAL CROSS SECTION OF IMPROVEMENT AND SUMMARY OF QUANTITIES

GENERAL NOTES

This Project is to be constructed in conformity with the Standard Specifications of the Colorado State Highway Department, adopted June 1, 1937.

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

All roadway Excavation required to construct this Project is to be obtained as indicated on the plans. Quantities involved beyond the limits of the ditch as shown on Typical Section, either noted on Profile as "Borrow" or on List of Structures as "Embankment" 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.

Slope stakes beyond the limits of the Typical Section as shown are subject to change by the Engineer to fit embankment requirements actually encountered during construction.

All pipe Cross Culverts are to be provided with one headwall on the inlet end unless otherwise noted on the plans.

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

Except as otherwise noted on the plans, Overhaul will be paid for as measured along the centerline of the project.

All side approach roads to the Project shall be Gravel Surfaced with a 4" thickness of Gravel or Crushed Rock Surfacing extending approximately 30' from edge of Highway Estimated tonnage of Gravel Surfacing required in this operation is shown in "List of Structures."

All wire fences, including line posts, shall be placed approximately six (6) inches inside the boundary of the highway right of way as shown on the plans.

The present traveled roadway will be used for traffic during construction of this project. At all places on project where construction encroaches on present road, traffic must be adequately provided for at the contractor's expense. Also, the contractor shall, at his own expense, construct and maintain in safe condition, all temporary approaches to and crossings of inter-secting roads.

FENCING REQUIREMENTS

STATION	SIDE	GATES EACH	REMOVE FENCE LIN. FT.	REMOVE & REBUILD LIN. FT.	BUILD B. W. FENCE LIN. FT.
9125	R		20		
11112 to 13145	R				220
10180	R		50		
11120 to 12180	L		190		
13148 to 17133	R				430
13195 to 15183	R				132
14100	R		40		
15143 to 15183	R			40	
15150	R		60		
17140	L				
17147 to 20113	R				250
18120 to 23133	R-L		830		
19180 to 21191	R				200
20127 to 21191	L				210
22107 to 23133	L				128
22109 to 23133	R				124
TOTALS		1	1190	40	1632

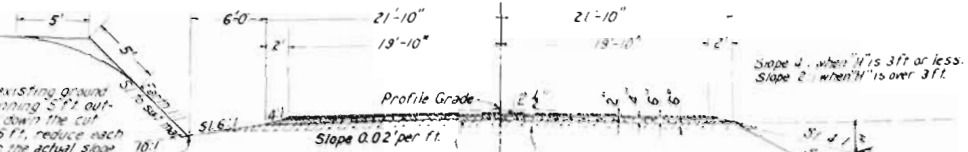
CUT SLOPE TREATMENT IN EARTH CUTS

The intersection of cut slopes with existing ground line shall be rounded in earth cuts beginning 5' ft. outside the slope stake and extending 5' ft. down the cut slope. Where the cut slope is less than 5' ft., reduce each of the above widths of slope treatment to the actual slope distance. Quantities involved in cut slope treatment shall be included in "Unclassified Excavation."

Excavation or Borrow below slopes shown will not be permitted.

The thickness of Gravel or Crushed Rock Surfacing is to be considered approximate only. Surfacing is to be placed in two courses at the rates indicated below:
 4" Base course surfacing - 87 tons per 100' of roadway.
 2" Top course surfacing - 41 tons per 100' of roadway.

TYPICAL SECTION



In places where Embankment and Excavation are in which would result in a roadbed unsuitable for traffic, the six (6) inches immediately underlying the subgrade, as shown on Typical Section, is to be constructed of Selected Material, which is to be classified and paid for as "Unclassified Excavation."

LIST OF STRUCTURES

STATION	DESCRIPTION	EXCAVATION		STRUCT. EXCAV. CU. YD.	CORR. METAL PIPE	CORR. METAL CULVERT	MISCELL.				
		EMB.	CU. YD.								
7100-8100	Remove pavement										
7100-10115	Dry rubble ditch paving										
7195	Road approach, side dr, rem. CMP side	1	15								
8145	Road approach, side dr, rem. CMP side	1	15								
10100	Road approach		150								
11100	C.M.P. cross culv. 62" sh. rem. CMP		30								
12150	Road approach		(Quantities in cross sections)								
13110	C.M.P. cross culv. ditches, 17" sh. to hole		50								
13150	Road approach		(Quantities in cross sections)								
	Remove roof & fill cellar		15								
14100	Remove shed										
14150	Remove chicken house										
17140	Road approach		200								
17162-19194	Wire cable guard fence					232					
17170-19170	Guard posts										
17195	C.M.P. cross culv.		10								
20100	Road approach		75								
20120	Road approach, relay C.M.P. side dr.		590								
	Rem. & rebuild brick gate posts										
20130-21190	Guard posts					9					
20150-21190	Guard posts					8					
21100	Remove sign										
22100	Rd. approach, rem. & reset gates		240								
22133-23133	Remove pavement						200				
22136-23130	Guard posts					9					
9146-11100	C.M.P. culv. corr. conn. culv., rem. 15" 152" C.M.P.		70			0.3					
	Remove pole line (by Teleph. Co. Forces) (Force Acct.)										
	Remove pole line (by Power Co. Forces) (Force Acct.)										
TOTALS		4	250	1100	155	46	44	232	1025	130	232

* Structural Excavation is estimated to be 100% common, which is estimated to be 80% dry and 20% wet.
 * Cost of 35" Elbow for 15" C.M.P. to be included in cost of 15" Corrugated Metal Culvert Pipe.

SUMMARY OF APPROXIMATE QUANTITIES

NO.	DESCRIPTION	UNIT	ROADWAY	TOTAL
10 a	Clearing & Grubbing Entire Project	Lump Sum		
11 b	Removal of 4 Structures	Lump Sum		
11 c	Removal of 1 Sign	Lump Sum		
11 d	Remove Concrete Pavement	Sq. Yd.	400	400
11 e	Remove Roof of Cellar side 131	Lump Sum		
11 f	Remove 2 Buildings side 141	Lump Sum		
12 a	Removing Fence	Lin. Ft.	1200	1200
12 b	Removing & Rebuilding Fence	Lin. Ft.	50	50
12 c	Remove & Reset Gates	Each	2	2
13 a	Unclassified Excavation	Cu. Yd.	20,000	20,000
13 b	Very Common Excavation (Struct.)	Cu. Yd.	150	150
13 c	Well Common Excavation (Struct.)	Cu. Yd.	50	50
14 a	Station Work Overhaul	Sta. Yd.	18,000	18,000
16 v	Gravel or Crushed Rock Surf.	Ton	2,400	2,400
46 b	Class "B" Concrete	Cu. Yd.	8	8
53 a	15" Corrugated Metal Culv. Pipe	Lin. Ft.	180	180
53 b	16" Corrugated Metal Culv. Pipe	Lin. Ft.	254	254
53 c	36" Corrugated Metal Culv. Pipe	Lin. Ft.	30	30
59	Relaying Pole	Sta. Yd.	88	88
65	City Rubble Ditch Paving	Sq. Yd.	160	160
71 v	Wire Cable Guard Fence	Lin. Ft.	232	232
72 v	Timber Guard Posts	Each	46	46
76 a	Barbed Wire Fence (Tr. Wel. Posts)	Lin. Ft.	1,700	1,700
76 b	Barbed Wire Gates	Each	1	1
76 c	Remove & Rebuild Gate Posts, stone	Lump Sum		
	FORCE ACCOUNT ITEMS			
	Removing Telephone Poles (Force Account, by Teleph. Co. Forces.)	Lump Sum		
	Removing Power Poles (Force Account, by Power Co. Forces.)	Lump Sum		

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9	COLO.		9	

STA 7100 to 8100 Remove 200 sq yd. pavement.

STA 7185 Reg'd. 15 cu yds. embank. & 18'x26' C.M.P. side drain for road approach R, remove C.M.P. side drain R.

STA 9145 Reg'd. 15 cu yds. embank. & 18'x26' C.M.P. side drain for road approach R, remove W&C side drain R.

STA 10100 Reg'd. 150 cu yds. embank for road approach R.

STA 11100 Reg'd. 36'x130' C.M.P. cross culv. 62° skew. Remove 60'x24' C.M.P. in old road Lt.

STA 12150 Reg'd. Road approach, left quantities included in cross sections.

STA 13110 Reg'd. 18'x88' C.M.P. cross culv. & 50 cu yds. unexcav. for ditches SW 77' NO. ROW wall reg'd.

STA 13150 Reg'd. Road approach, right quantities included in cross sections. Also, remove roof and fill cellar Rt. 15 cu yds. embank.

STA 14100 Remove shed L.

STA 14150 Remove chicken house L.

STA 17162 to 19194 Reg'd. 232 lin. ft. wire cable guard fence L.

STA 17140 Reg'd. 200 cu yds. unexcav. for road approach Lt.

STA 20100 Reg'd. 75 cu yds. embank. for road approach R.

STA 20120 Reg'd. 530 cu yds. embank. relay 15'x88' C.M.P. side drain for road approach Lt. Remove & rebuild 2 brick gate posts L.

STA 20150 to 21190 Reg'd. 8 guard posts spaced 20 ft. c.t.c. Lt.

STA 22136 to 23110 Reg'd. 9 guard posts spaced 20 ft. c.t.c. and for bridge approach Rt & Lt.

STA 21100 Remove sign R

STA 22100 Reg'd. 240 cu yds. embank. for road approaches R & L. Rem & reset gates R & L. STA 22133 to 23133 Remove 200 sq. yd. pavement.

STA 7100 - BEGIN JEFFERSON CO. 3% GAS TAX FUND PROJ. (1933)

STA 23133 - END JEFFERSON CO. 3% GAS TAX FUND PROJ. (1933)

STA 20130 to 21190 Reg'd. 9 guard posts spaced 20 ft. c.t.c. Rt.

Sta. 17195 Reg'd. 18'x114' C.M.P. cross culvert.

STA 7100 to 8105 Reg'd. 160 sq. yds. dry rubble ditch paving for rebuilding ditches on Rt. to be constructed of selected pieces of removed conc. pav't.

Remove Telephone Poles at stations listed below. Force Account work to be done by Telephone Co. forces. At sta 8116, Rt sta 9125 and Rt sta 23127.

Remove Power Poles at stations listed below. Force Account work to be done by Power Co. forces. Lt sta 8130, Lt sta 9185, Rt sta 13160, Lt sta 19185, Lt sta 22100 and Lt sta 10165.

