

STATE DEPARTMENT OF HIGHWAYS DIVISION OF HIGHWAYS—STATE OF COLORADO

FEDERAL ROAD REGION NO.	DIVISION	PROJECT NO.	SHEET NO.
9	COLORADO	CC11-0070-06	1

R.O.W. Purchased under Project No. I70-3(33) or on Co. Rd. R.O.W.

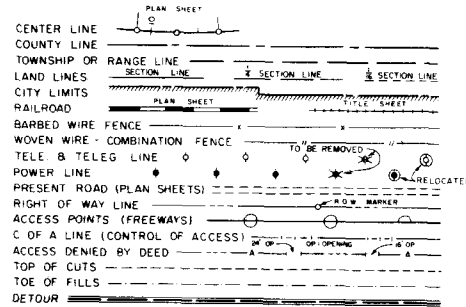
RE. No. CS9-0070-05

W.O. # 19886

INDEX OF SHEETS

on Proj. I 70-3(62)260

CONVENTIONAL SIGNS



PLAN AND PROFILE OF PROPOSED COLORADO PROJECT NO. CC11-0070-06 STATE HIGHWAY NO. 70 JEFFERSON COUNTY

SHEET NO

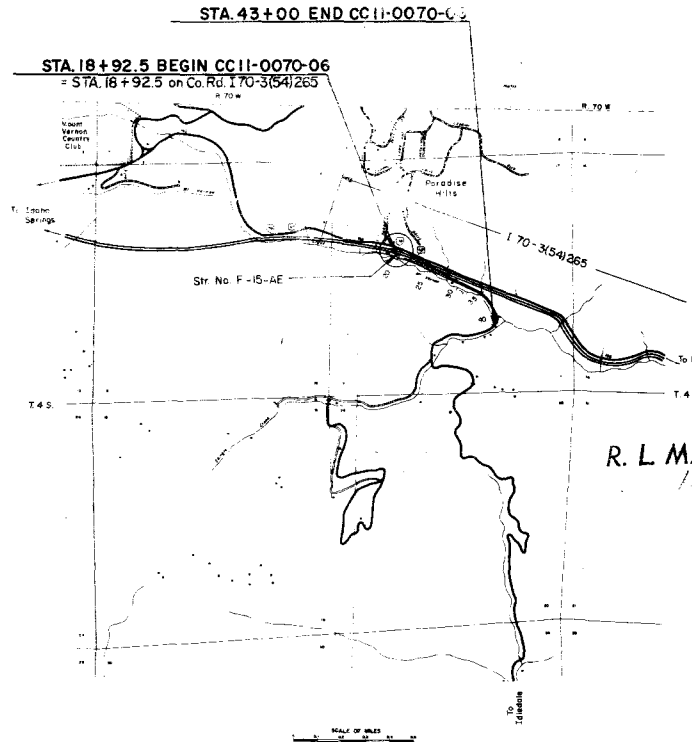
1	Title Page, Sketch Map, and Tabulation of Length	
2	Typical Section, General Notes, Base Course and Surface Course Plan and Summary of Earthwork Quantities.	
3	Summary of Earthwork Quantities	
4	Structure Quantities	
5	Detail of Dry Rubble Slope and Ditch Paving	
6	Alignment Plan and Profile	
7	Grass Sections Tabulation: Seeding & Mulching, Fencing, Top Soil, Sh. Coll & B.T. U.A.D. Box.	MAY 26, 1972

SCALES OF ORIGINAL DRAWINGS
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

M-203-A	Superelevation & Widening of Curves - Crowned Highways	7-30-68
M-203-B	Approach Roads, Flaring, Cut Slope Treatment, Bridge & Crest Widening	4-27-70
M-203-C	Ditch Types	7-23-68
M-206-AA	Excavation and Backfill for Structures (2 Sheets)	3-1-71
M-601-A	Single and Double Concrete Box Culverts	7-1-65
M-601-D	Wingwalls for Concrete Box Culverts (2:1 Side Slopes)	5-10-71
M-603-M	Metal Culvert Pipe - H-20 Loading	2-11-71
M-614-A	Timber Barricades	4-23-69
M-614-C	Standard Construction Identification Signs (2 Sheets)	9-25-70
M-614-TB	Traffic Signing for Highway Construction (3 Sheets)	12-24-68

TABULATION OF LENGTH

STATION	ROADWAY	LIN. FT.	MILES
18+92.5 BEGIN CC11-0070-06			
28+12.52 Bk. = EQUATION 28+08.85 Ah		916.33	
43+00 END CC11-0070-06		1,487.48	
TOTALS		2,403.81	
SUMMARY			
ROADWAY		2,403.81	0.455
TOTALS (NET AND GROSS LENGTH)		2,403.81	0.455



CONTRACTOR - DOMENIC LEONE CONST. CO.
RESIDENT ENGR. - MARIO FIGURELLI
PROJECT STARTED - DEC. 2, 1971
PROJECT COMPLETED - MAY 26, 1972

W. C. BROWN

R. L. MAYER

SEE SPECIAL PROVISIONS FOR
NOTICE TO BIDDERS

DIVISION OF HIGHWAYS	
APPROVED	
CHIEF ENGINEER	DATE

W.C.B.

FEDERAL ROAD DISTRICT NO.	DIVISION	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	FOR GRAD	CC II-0070-06	2	

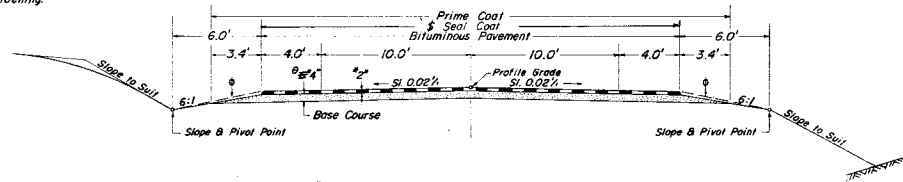
Grapevine Road

W.O. # 19886
on Proj. I 70-3(62)260

MAY 26, 1972

TYPICAL SECTION

NOTE:
See Standards for details of cut slope treatment, flaring and widening.



Excavation below 6:1 slope will not be permitted.

The depth and width of the side ditch shall be varied where necessary in order to provide proper drainage.

Break points on slopes and in bottom of ditches shall be rounded on construction for a pleasing appearance.

*Approximate Thickness

The Contractor will be required to place additional gravel or other suitable material to this line after completion of paving operation

- Future Construction
- 4 inch Minimum Base Course Required
- Subsequent Paving Course as Directed

Material shall be placed in separate courses at the following rates per 100 Lin. Ft. of roadway:

Bituminous Pavement	-----	34 Tons
Base Course	-----	70 Tons

GENERAL NOTES

For preliminary plan quantities of bituminous materials, the following rates of application were used:

Prime Coat MC @ 0.4 Gal. per Sq. Yd.
Hot Bituminous Pavement @ 110 Lbs. Per Sq. Yd. Per Inch Thick
Rates of application shall be as determined by the Engineer at the time of application.

Plain water shall be used as a dust palliative where required. Locations shall be as ordered.

It is estimated that the old road is to be obliterated at the following locations:
Sta 36+00 to Sta 40+50 and Sta. 41+00 to Sta. 42+50

The old road is to be scarified in preparation for placement of embankment material at all locations where embankment encroaches on old road. Scarifying will not be paid for separately but shall be included in the work.

Depth of Moisture-Density Control for this project shall be as follows:
Top one foot of all embankments.
Base of cuts one foot except where cut is essentially in rock.

Excavation required for compaction of base of cuts will be considered as subsidiary to that operation and will not be paid for separately.

Class "A" Concrete only will be permitted on this project.

Signs will be removed by State Forces.

Signing & Striping is to be done by State Forces.

It is estimated that 500 hours of flagging for controlling traffic will be required for this project.

Flexible conduits on this project with helical corrugations, joined by dimpled connecting bands, shall use a sealing compound or gasket with the connecting band.

BASE COURSE & SURFACE COURSE PLAN

STATION TO STATION	SOURCE	QUANTITY IN TONS	
		AGGREGATE BASE COURSE CLASS 6 THICKNESS 6"	HOT BITUMINOUS PAVEMENT GRADING E
18+92.5 to 43+00.0 (100+ TO 107+ SKI RD.)	Undesignated	2,189.2	168.5
Approach to Project 443+00 to 44+00-42V		108	72
19+ TO 44+ ROAD APPR. LT.		264	176
15+ TO 19+ ROAD APPR. LT.		100	100
TOTALS		2,661.4	1,116.5

NOTE: Stabilization Based on
1. E.D.L.A. 18K 5 (assumed)
2. Regional Factor 1.5
3. Serviceability Index 2.0
4. Hot Bituminous Pav. 0.40 (R₁=9)
5. A.B.C. CL 6 0.14 (R=78)

INDEX		
BOOK	PAGE	SHEET
1	17	
1	17	
1	17	
1	19	
4	41	
4	41	
4	21	

SUMMARY OF EARTHWORK QUANTITIES

	QUANTITY CU.YDS.	Used on Work Order # 19886
UNCLASSIFIED EXCAVATION (HAUL)		
*Roadway (From Cross Sections)	12,177 23,314	
Ski Road	20	1,208
Structure Quantities as Excavation	5 20	
Structure Quantities as Embankment		
Sub Exc.	50	240
Estimated for Cut-Slope Treatment		
TOTAL FOR PAY QUANTITY	12,252 24,782	14,000 Cu.Yd.
BORROW (HAUL)		
*From Pit	62,003 55,924	
Estimated for Subsidence	7,508	
TOTAL FOR PAY QUANTITY	70,411 55,924	70,000 Cu.Yd.
COMPACTION (AASHTO T 180)		
(Moisture and Density Control)		
Embankment (Not)	3,333	3,732
Base-of-Cuts	453 578	
TOTAL FOR PAY QUANTITY	3,786 4,310	5,000 Cu.Yd.
ROADWAY QUANTITIES BALANCE		
EXCAVATION		
Unclassified	12,177 24,542	
Borrow	62,003 55,684	
TOTAL	75,000 80,226	
EMBANKMENT (Roadway from Cross Sections)		
TOTAL	75,000	81,693
EMBANKMENT X FACTOR (1.00) 0.98204		
TOTAL	75,000	
WETTING		M. Gal.
Compaction	32	72.0
Aggregate Base Course	146	13.5
Water as a Dust Palliative	100	90.0
TOTAL	278	181.5
* Roadway Quantities used for Earthwork Balance		

STRUCTURE QUANTITIES AS COMPLETED

W.O. # 19886
 on Proj. I TQ-3(6)1260

FEDERAL ROAD REGION NO.	DIVISION	PROJECT NO.	SHEET NO.
9	COLORADO	CC 11-0070-06	4

INDEX	LOCATION	UNCLASSIFIED EXCAVATION CUBIC YARD			STRUCTURE EXCAVATION		STRUCTURE BACKFILL		AGGREGATE BASE COURSE SURFACE CLASS	HOT BITUMINOUS PAVEMENT TON	CONCRETE CUBIC YARD	REINFORCING STEEL LB.	CORRUGATED STEEL CULVERT PIPE LINEAR FEET						"H" 3'-6" CULV. FT.	RIPRAP CUBIC YARD	END SECTION EACH		MISCELLANEOUS			
		EXCAV.	EMB.	DITCH	CUBIC YARD	CUBIC YARD	CL 2	CL 2					CL 2	24"	24"	24"	24"	24"			24"	24"		24"	24"	24"
4 20	26+75	10			15	28	75	17					69	62			4	20.7 20			1- Removal Portion of Present Str.					
4 51	28+15																				1- Plug Culvert					
4 54	35+ 35 36+ to 39+	5			7	25	17						54	26			8	3.4			1- Removal of New Culvert 2- Lin. Ft. - Relay Pipe (24 Inch) 3-5 Lin. Ft. - Removal of Fence 1- Plug Culvert					
4 9	41+11 41+ to 43+	5			145	145	260	260			1571	15090									1- Removal of Bridge 780 Lin. Ft. - Removal of fence					
4 43	43+ to 44+0242 43+ LT				Quantities included in "Summary of Approximate Quantities"																1- Removal Portion of Present Str.					
1 45	22+00 LT																									
1 44	18+ to 21+ LT																									
1 43	46+ to 41+ LT																					270 Lin. Ft. Curb Type 2 (Sec. M) 122 Lin. Ft. Curb Type 2 (Sec. M)				
TOTALS (State)		20	45		25	37	46	34					123	62				20	29.1							
TOTALS (County)					145	145	260	260			1571	15090														

A Carried to Summary of Earthwork Quantities
 B Includes Ditches over 10' wide

STATE OF MISSISSIPPI
 COUNTY OF TARRANT
 PROJECT NO. 170-3(62)260

CC II-0070-06	6
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Grapevine Road

W.O. # 19886
 on Proj. I 70-3(62)260

MAY 26, 1972

STR. # F-18-AE BRIDGE DECK WAS
 OVERLAYED WITH H.B.P. AND ALSO
 APPROACHES TO SAME

STA. 18+92.5
 BEGIN CC II-0070-06
 = 18+92.5 on County Road
 170-3(54)265

STA. 43+00
 END CS II-0070-05

SURVEY CURVE DATA

(A) Δ = 104°30' LI
 D = 38°12'
 T = 193.7'
 L = 273.6'
 R = 150.0'

(B) Δ = 27°40' RI
 D = 10°00'
 T = 141.12'
 L = 276.74'
 R = 573.0'

PROJECTED CURVE DATA

Δ = 21°40' RI
 D = 6°00'
 T = 235.15'
 L = 461.11'
 R = 955.0'

SURVEY CURVE DATA

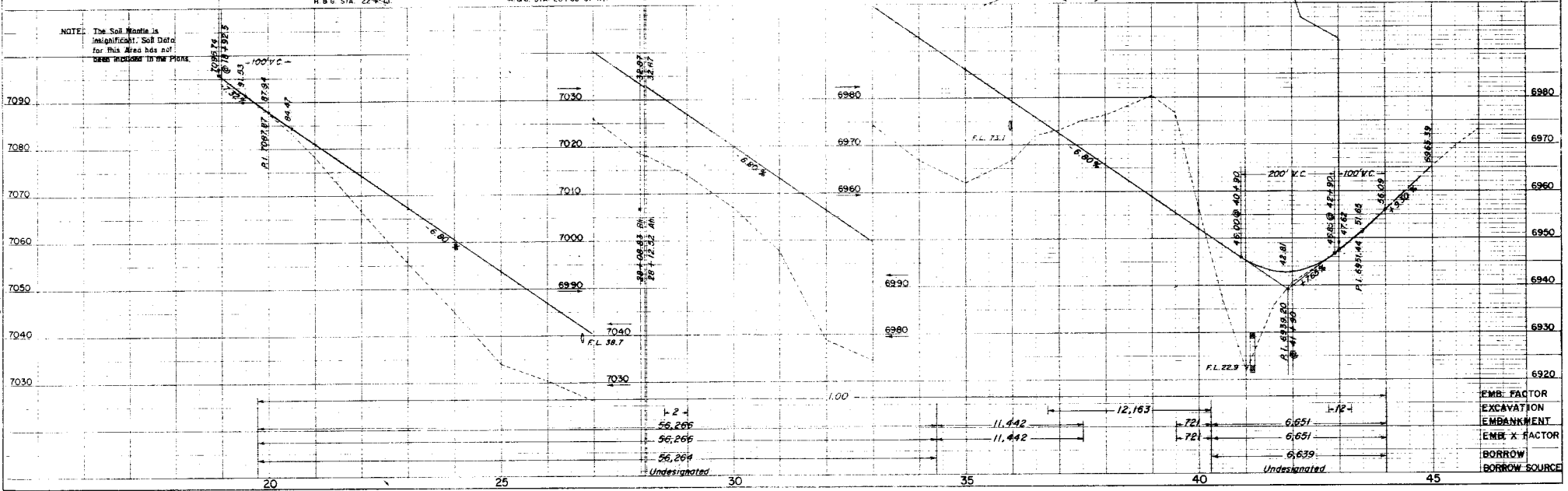
(C) Δ = 39°43' RI
 D = 16°00'
 T = 129.35'
 L = 248.19'
 R = 358.1'

(D) Δ = 52°42' RI
 D = 22°00'
 T = 128.94'
 L = 239.53'
 R = 280.4'

(E) Δ = 56°36' RI
 D = 15°00'
 T = 128.32'
 L = 244.07'
 R = 382.0'

EQUATION

NOTE: The Soil Profile is
 Significant. Soil Data
 for this area has not
 been included in the Plans.



EMB. FACTOR
 EXCAVATION
 EMBANKMENT
 EMB. X FACTOR
 BORROW
 BORROW SOURCE

DATE: 5/26/72
 DRAWN BY: J. W. BROWN
 CHECKED BY: J. W. BROWN

FEDERAL ROAD REGION NO.	DISTRICT	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLORADO	CC11 0070 06	7	

AS ORDERED BY
 RECEIVED MAY 26, 1972

TOPSOIL SEE BK #4 PG. 32

LOCATION	SOURCE	SIDE	QUANTITY CU YDS.
19+ to 39+	FROM GENESEE AND BEAVER BROOK	LT	883
19+ to 43+		RT	1,523
106+ to 107+ (SKI ROAD)		RT	283
PROJECT TOTALS			2,749

D.O. # 19961

FENCING SEE BK #4 PG. 15

LOCATION	SIDE	SOILS R.W. FENCE WITH METAL POSTS LIN FT	
39+ to 40+	LT	175	
41+ to 42+	LT	67	
TOTALS		242	

1 END POSTS AND 1 CORNER POST WAS USED D.O. # 19961

SEEDING AND MULCHING SEE BK #4 PAGE 33

LOCATION	SIDE	SEEDING ACRE	MULCHING ACRE
19+ to 43+	LT	0.97	0.97
19+ to 43+	RT	3.29	3.29
106+ to 107+ (SKI ROAD)	RT	0.25	0.25
PROJECT TOTALS		4.66	4.66

D.O. # 19961