

THE STATE DEPARTMENT OF HIGHWAYS
DIVISION OF HIGHWAYS - STATE OF COLORADO DENVER COLORADO
PROJECT SR 0176(13) SUBACCOUNT 80089 MRE GOALS
ON SH 176, BEGINNING 2.4 MILES NORTHEAST OF HOLYOKE
AND EXTENDING 3.0 MILES NORTHEASTERLY
PHILLIPS COUNTY DISTRICT 4
CONSISTING OF GRADING, STRUCTURES, STABILIZATION,
HOT BITUMINOUS PAVEMENT AND HOT BITUMINOUS PAVEMENT OVERLAY
COMPLETION IN 50 DAYS ROLLING TERRAIN
OCTOBER 9, 1980 9:45 AM

OTHER BIDDERS TOTALS VERIFIED.

	TOTALS	INDEX
POPEJOY CONSTRUCTION	799318.58	97.91
GRASSER CONSTRUCTION	803990.34	98.48
PIONEER PAVING	811741.81	99.43
PETER KIEWIT SONS	840513.40	102.95
BEST-WAY PAVING	899970.93	110.24

See Standard M-100-A for STANDARD SYMBOLS

STATE DEPARTMENT OF HIGHWAYS DIVISION OF HIGHWAYS—STATE OF COLORADO

PLAN AND PROFILE OF PROPOSED "AS CONSTRUCTED" FEDERAL AID PROJECT NO. SR 0176 (3) STATE HIGHWAY NO. 176 PHILLIPS COUNTY

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

R-1 SHOWED NAUL ROUTE 7-29-80 S.D.M.
P.E. & R.O.W. OBLIGATED
UNDER THIS PROJECT.

FEDERAL ROAD REGION NO.	DIVISION	PROJECT NO.	SHEET NO.
VIII	COLORADO	SR 0176 (3)	1

AS CONSTRUCTED	
NO REVISIONS	REVISED 28 SEP 81 VOID

INDEX OF SHEETS

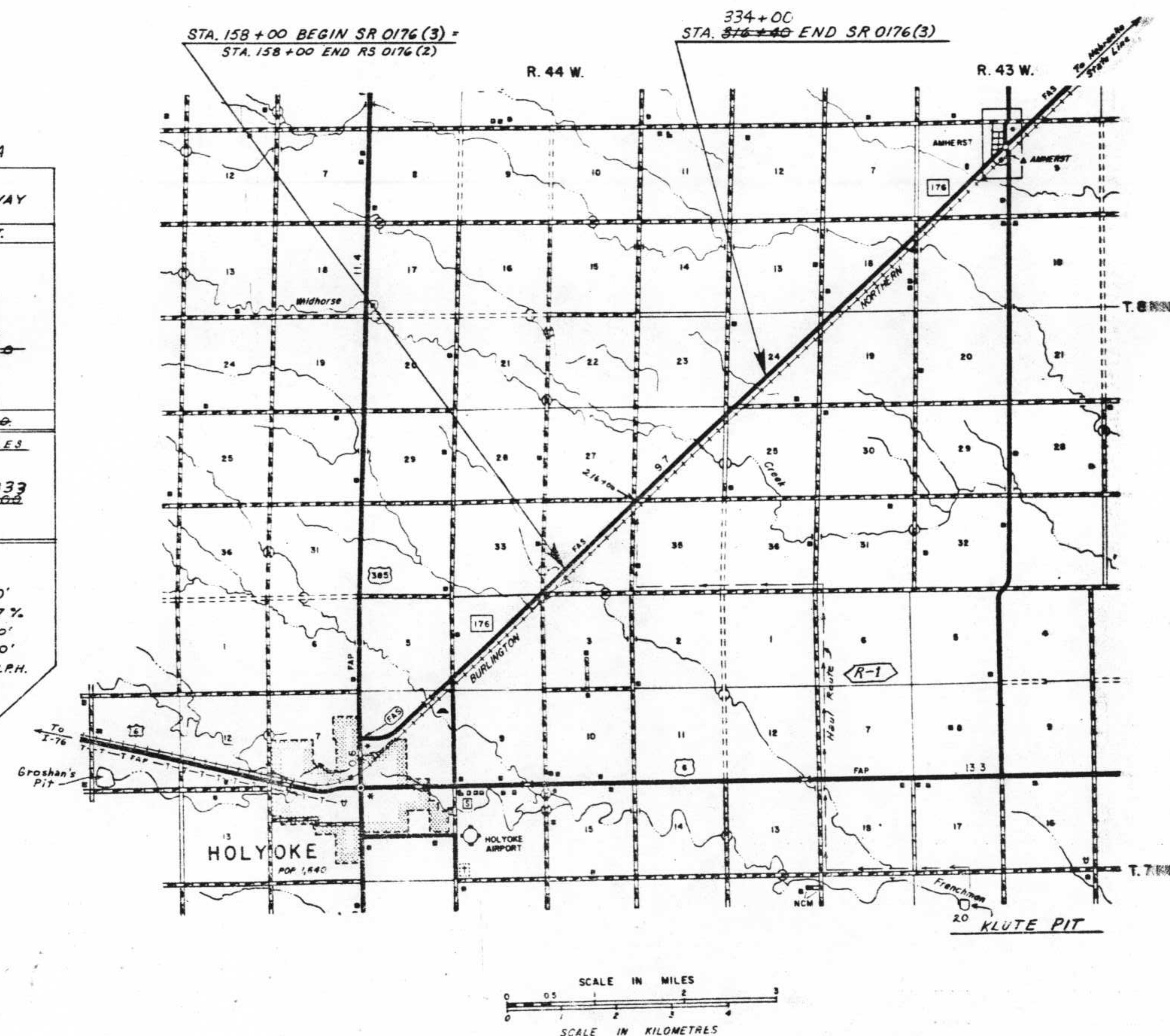
SHEET NO.	
1	TITLE PAGE, SKETCH MAP AND LENGTH AND DESIGN DATA
2	TYPICAL SECTION AND GENERAL NOTES
3	SUMMARY OF APPROXIMATE QUANTITIES
4	STRUCTURE QUANTITIES
5	SUMMARY OF EARTHWORK QUANTITIES AND SURFACING PLANS
6	PIT SHEET
7	SCHEDULE OF CONSTRUCTION TRAFFIC SIGNS, TABULATION OF DELINEATORS
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14	STANDARD PLANS LIST

NEW AND REVISED STANDARDS
M-620-B FIELD LABORATORY CLASS I 5-30-80

Sheets with No Revisions
8, 11, & 14

TABULATION OF LENGTH AND DESIGN DATA

STATION	ROADWAY	
	LIN. FT.	
158 + 00 BEGIN SR 0176 (3) = 158 + 00 END RS 0176 (2)	17,600 15,840.0	
334 + 00 316 + 00 END SR 0176 (3)	17,600 15,840.0	
TOTAL	17,600 15,840.0	
SUMMARY	LIN. FT.	MILES
ROADWAY (NET & GROSS LENGTH)	17,600.0 15,840.0	3.333 3.066
DESIGN DATA		
MAXIMUM DEGREE OF CURVE	0°00'	
MAXIMUM GRADE	1.207 %	
MINIMUM S.S.D. VERTICAL	> 600'	
MINIMUM S.S.D. HORIZONTAL	> 600'	
MAXIMUM DESIGN SPEED	60 M.P.H.	
2000 DESIGN TRAFFIC VOLUME	[ADT = 1150 DHV = 140]	

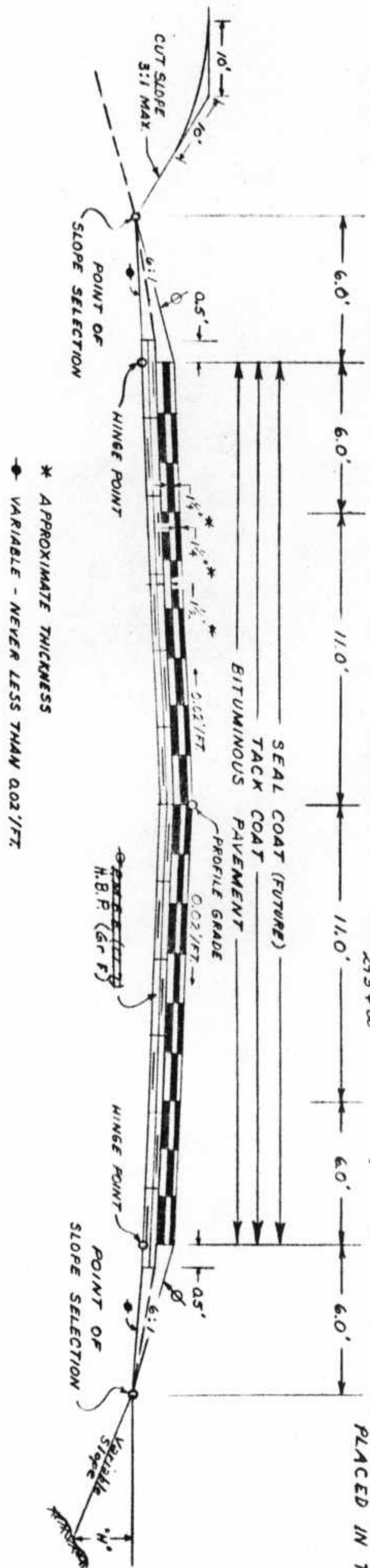


DIST. IV	FILE	COPY
DIST. ENGR.		
ASST. ENGR.		
CONSTR.		
PRE-CONST.		
ERA		
UTIL		
DESIGN		
ROW		
MATL'S		
EEO		
RE-PE'S		
MAINT.		
TRAFFIC		

DIVISION OF HIGHWAYS	
APPROVED:	
8/12/80 James W. Hanger 9/17/80 DATE	
CHIEF ENGINEER	
AS CONSTRUCTED INFORMATION	
CONTRACTOR FLATIRON PAVING Co.	
RESIDENT ENGINEER L.J. VAN KALKEREN	
(Project or Resident)	
PROJECT STARTED 3 NOV 80	
PROJECT COMPLETED 28 SEPT 81	
AS CONSTRUCTED PLANS APPROVED	
DIST. CONSTR. ENGR. 12/21/81	
TITLE DATE	

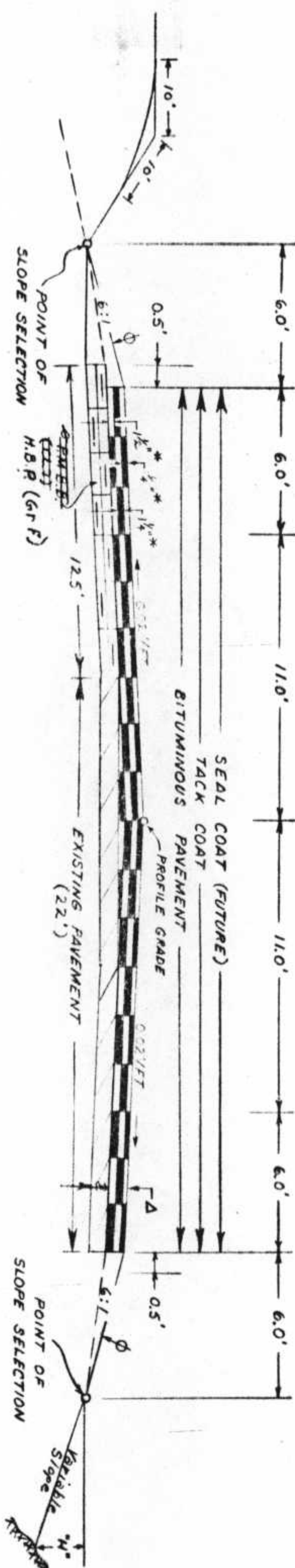
S.D.M.

TYPICAL SECTION A
STA. 158+00 TO 175+00 STA. 227+00 TO 235+00
STA. 155+00 TO 214+00 CHEM-CRETE ASPHALT CEMENT PAVEMENT WILL BE PLACED IN THIS AREA



* APPROXIMATE THICKNESS
* VARIABLE - NEVER LESS THAN 0.021/FT.

TYPICAL SECTION B



Overlay Thickness

Sta. to	Sta.	Thickness
158+00	162+00	6 3/4"
162+00	170+00	4 1/4"
170+00	200+00	6 3/4"
200+00	210+00	6 1/2"
210+00	240+00	8 3/4"
240+00	260+00	7 1/2"
260+00	270+00	8"
270+00	280+00	7 3/4"
280+00	320+00	7 1/4"
320+00	333+	See C.M.O. B150

GENERAL NOTES

FOR PRELIMINARY PLAN QUANTITIES OF BITUMINOUS MATERIALS, THE FOLLOWING RATES OF APPLICATION WERE USED:
TACK COAT DILUTED EMUL. ASPH. (CSS-1) @ 0.23 GAL./SQ. YD. (DILUTED)
DILUTED EMULSIFIED ASPHALT FOR TACK COAT SHALL CONSIST OF 1 PART EMULSIFIED ASPHALT AND 1 PART WATER.
RATES OF APPLICATION SHALL BE AS DETERMINED BY THE ENGINEER AT THE TIME OF APPLICATION.
DILUTED EMULSIFIED ASPHALT SHALL BE USED AS A DUST PALLIATIVE WHERE REQUIRED AND SHALL CONSIST OF A DILUTION OF EMULSIFIED ASPHALT (CSS-1) AND WATER, THE PORTIONS OF WHICH SHALL BE 9 PARTS WATER AND 1 PART EMULSIFIED ASPHALT, BASED ON VOLUME MEASUREMENT. LOCATIONS SHALL BE AS ORDERED.
THE FOLLOWING SHALL BE FURNISHED WITH EACH BITUMINOUS PAYER:
1. A SKI TYPE DEVICE AT LEAST 30 FEET IN LENGTH.
2. SHORT SKI OR SHOE
ANY LAYER OF BITUMINOUS PAVEMENT THAT IS TO HAVE A SUCCEEDING LAYER PLACED THEREON SHALL BE COMPLETED FULL WIDTH BEFORE SUCCEEDING LAYER IS PLACED.
ROAD APPROACHES WHICH REQUIRE BITUMINOUS PAVEMENT SHALL BE PRIMED AND A 2" THICKNESS OF PAVEMENT PLACED AS FOLLOWS:
PUBLIC APPROACHES AND ENTRANCES TO BUILDINGS OR RESIDENCES SHALL BE PAVED 50 FEET OUT FROM EDGE OF SHOULDER OR TO THE RIGHT OF WAY LINE, WHICHEVER IS LESS. FIELD ENTRANCES SHALL BE PAVED 4 FEET OUT FROM EDGE OF SHOULDER.
DEPTH OF MOISTURE-DENSITY CONTROL FOR THIS PROJECT SHALL BE AS FOLLOWS:
FULL DEPTH OF ALL EMBANKMENTS
BASES OF CUTS AND FILLS 0.5 FOOT.
EXCAVATION REQUIRED FOR COMPACTION OF BASES OF CUTS AND FILLS WILL BE CONSIDERED AS SUBSIDIARY TO THAT OPERATION AND WILL NOT BE PAID FOR SEPARATELY.
IT IS ESTIMATED THAT 2,000 HOURS OF FLAGGING FOR CONTROLLING TRAFFIC WILL BE WASTED 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.
GUARD POSTS, DELINEATORS AND SIGNS WILL BE REMOVED BY STATE FORCES.
ASPHALT PAVING EXCAVATED IN GRADING OPERATIONS WILL BE BURIED IN BOTTOM OF FILLS AND NOT PERMITTED TO BE EXPOSED. THE COST SHALL BE PAID FOR AS UNCLASSIFIED EXCAVATION.
TRAFFIC TO USE PRESENT TRAVELED ROAD DURING CONSTRUCTION.
SEEDING, SOIL PREPARATION, FERTILIZING WITH COMMERCIAL FERTILIZER, AND MULCHING WILL BE REQUIRED FOR APPROXIMATELY 23 ACRES FOR ROADWAY WITHIN RIGHT-OF-WAY LIMITS ON ALL DISTURBED AREAS NOT SURFACED AND 6 ACRES FOR PITS ON ALL DISTURBED AREAS. THE FOLLOWING TYPES AND RATES SHALL BE USED:
ROADWAY SHOULDER AREAS (PAVEMENT TO 10 FEET OFF SHOULDER):
COMMON NAME BOTANICAL NAME PERCENT PURITY PERCENT GERMINATION PLS/ACRE
STANDARD CRESTED WHEATGRASS AGROPYRON CRISTATUM 90 85 6
BLUE GRAMA V. LOVINGTON BUTELOUA GRACILIS 75 33 4
TOTAL PLS/ACRE SEEDING (NATIVE) 10
10 FT. OFF SHOULDER TO RIGHT OF WAY:
COMMON NAME BOTANICAL NAME PERCENT PURITY PERCENT GERMINATION PLS/ACRE
ALFALFA (LADAK STRAIN) MEDICAGO SATIVA 95 90 3
TALL WHEATGRASS AGROPYRON ELONGATUM 94 90 6
SWITCHGRASS PANICUM VIRGATUM 90 80 1
STANDARD CRESTED WHEATGRASS AGROPYRON CRISTATUM 90 85 2
BLUE GRAMA V. LOVINGTON BUTELOUA GRACILIS 75 33 2
*PROPO MILLET PANICUM MILIACUM 98 90 10
*FOR FALL PLANTING, SUBSTITUTE:
WINTER WHEAT (NICHITA STRAIN)TRITICUM AESTIVUM 99 90 15*TOTAL PLS/ACRE SEEDING (NATIVE) 24

THE DEPTH AND WIDTH OF THE SIDE DITCH SHALL BE VARIED WHERE NECESSARY IN ORDER TO PROVIDE PROPER DRAINAGE.
MATERIAL SHALL BE PLACED IN SEPARATE COURSES AT THE FOLLOWING APPROXIMATE RATES PER 100 LIN. FT. OF ROADWAY:
BITUMINOUS PAVEMENT
TOP LAYER 2 1/2 TONS
MIDDLE LAYER 2 1/2 TONS
BOTTOM LAYER 30 TONS
TOTAL 35 TONS
THE RATES SHOWN HAVE BEEN DETERMINED FROM INFORMATION AVAILABLE AT THE TIME OF DESIGN. RATES SHOULD BE ADJUSTED DURING CONSTRUCTION TO OBTAIN THE REQUIRED APPROXIMATE THICKNESS.
THE CONTRACTOR WILL BE REQUIRED TO PLACE SUITABLE MATERIAL TO THIS LINE AFTER COMPLETION OF PAVING OPERATION.
IN SPECIAL CASES, SLOPE MAY BE STEEPENED.
BREAK POINTS ON SLOPES AND IN BOTTOMS OF DITCHES SHALL BE ROUNDED ON CONSTRUCTION FOR A PLEASING APPEARANCE.

FILL SLOPES:
SLOPE 4:1 WHERE "W" IS 10' OR LESS
SLOPE 3:1 WHERE "W" IS 10' TO 15'
SLOPE 2:1 WHERE "W" IS OVER 15'

THICKNESS VARIABLE. RATE OF 105 LBS./SQ.YD./INCH USED FOR CALCULATING H.B.R. QUANTITIES PER 100 LIN.FT. OF ROADWAY.
*WATER TO BE PLACED IN MIDDLE OF 2" LAYERS

NOTE:
OVERLAY THICKNESS OF 3" AND ABOVE TO BE PLACED IN 2 LAYERS AS DIRECTED.

OVERLAY THICKNESS

STA. 158+00 TO 195+00	1 1/2"
STA. 214+00 TO 227+00	3 1/2"
STA. 235+00 TO 243+60	3 1/2"
STA. 265+60 TO 275+00	3"
STA. 314+00 TO 316+40	3"

COMMON NAME	BOTANICAL NAME	PERCENT PURITY	PERCENT GERMINATION	RATE PLS/ACRE
BLUE GRAMA V. LOVINGTON	BUTELOUA GRACILIS	75	53	1.0
SIDE CATS GRAMA	BUTELOUA CURTIPENDULA	65	19	1.8
SWITCHGRASS	PANICUM VIRGATUM	75	71	0.9
ALFALFA V. RHIZOMA	MEDICAGO SATIVA	50	68	0.9
LITTLE BLUE STEM	AMEODOGON SCOPARIUS			1.4
TOTAL PLS/ACRE SEEDING				6.0

NOTE: TWO TONS PER ACRE NATIVE HAY.

FINAL
ESTIMATED QUANTITIES OF THE ITEMS REQUIRED ARE:
SEEDING (NATIVE)
SOIL PREPARATION (NATIVE)
FERTILIZER
MULCHING

	PIT AREAS	ROW AREA	REMAINING AREAS	TOTAL
SEEDING (NATIVE)	5.0	81.00	415.00	496.00
SOIL PREPARATION (NATIVE)	8.13	8.13	15.22	23.55
FERTILIZER	1500	2,032.5	3,805.00	5837.5
MULCHING	1/2	12.02	22.50	34.52

HYDRAULIC SEEDING WILL NOT BE ALLOWED.

1 1/2 TONS PER ACRE NATIVE HAY MECHANICALLY CRANED INTO THE SOIL ON ROADWAY.

The Top 8" of Soil in the Easement Areas will be removed & replaced as Topsoil. ~~It is estimated that 2000 cu.yds. will be removed & replaced as Topsoil.~~ ~~Topsoil & Shovel Soil Topsoil.~~

4,990 cu.yds

MULCHING MATERIAL: NATIVE HAY	1-1/2 TONS PER ACRE	PERCENT AVAILABLE	LBS./ACRE AVAILABLE	TOTAL RATE
COMMERCIAL FERTILIZER				
DIAMMONIUM PHOSPHATE (18-46-0):	18	95	16.65	250
AVAILABLE NITROGEN	46	115	42.20	
AVAILABLE SUPERPHOSPHATE				

PROJECT NO.	DIVISION	PROJ. NO.	SHEET NO.
VIII	COLORADO	S.R. 0176 (3)	2
AS CONSTRUCTED			
NO REVISIONS	REVISED	28 SEP 81	VOID

R-1

AS CONSTRUCTED		FEDERAL ROAD REGION NO.	DIVISION	PROJ. NO.	SHEET NO.	TOTAL SHEETS
NO REVISIONS	REVISED <u>28 SEP 81</u>		VIII	COLORADO	SR 0176 (3)	3

[illegible]

 See Computer Print-Out Sheet

FINAL STRUCTURE QUANTITIES

AS CONSTRUCTED	
NO REVISIONS	REVISED 28 SEP 81
	VOID

FEDERAL ROAD DISTRICT NO.	DIVISION	PROJ. NO.	SHEET NO.	TOTAL SHEETS
VIII	COLORADO	S/R 0176 (3)	4	

INDEX FROM BOOK	PAGE	SHEET	LOCATION	REMOVAL OF STRUCTURE			UNCLASSIFIED EXCAVATION			STRUCTURE EXCAVATION			STRUCTURE BACKFILL			P.M.E. BITUMINOUS PAVEMENT		HOT BITUMINOUS PAVEMENT		CONCRETE		REINFORCING STEEL		CORRUGATED STEEL PIPE			H OVER		STEEL END SECTION		MISCELLANEOUS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
				EACH	FINAL	CUBIC YARD	EXCAV	DITCH	EMB.	CUBIC YARD	FINAL	CL.	FINAL	TON	CLASS 2	TON	CLASS 2	TON	CL. 1	CUBIC YARD	LB	18" FINAL	36" FINAL	FT.	18" FINAL	36" FINAL																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												

64 ± Lin. Ft. - 48" Equiv. Corr. Steel Pipe Arch
2 - 48" Equiv. Arch Steel End Section -

70 ± Lin. Ft. - 48" Equiv. Corr. Steel Pipe Arch
4 - 48" Equiv. Arch Steel End Section -

50 ± Lin. Ft. - 36" Equiv. Corr. Steel Pipe Arch
2 - 36" Equiv. Arch Steel End Section -

FEDERAL ROAD DISTRICT NO.	DIVISION	PROJ. NO.	SHEET NO.	REVISIONS
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AS CONSTRUCTED				
NO REVISIONS	REVISED	28 SEP 81	VOID	

FINAL SURFACING PLAN (GRAVING SECTIONS)

STATION TO STATION	SOURCE	TONS USED						HAUL - TON MILE					
		BASE COURSE			HOT BITUMINOUS PAVEMENT			BASE COURSE			HOT BITUMINOUS PAVEMENT		
		PLANT MIX BITUMINOUS BASE CL. 7	GRADING F. LAYER	GRADING F. MIDDLE LAYER	GRADING F. TOP LAYER	FINAL	P.M.B. CL. 7	GRADING F. BOTTOM LAYER	GRADING F. MIDDLE LAYER	GRADING F. TOP LAYER	FINAL		
158+00 to 175+00		3" 1020	510	425	425		11,566	5,783	4,819	4,819			
195+00 to 210+00		3" 900	450	375	375		9,591	4,796	3,996	3,996			
210+00 to 214+00		4" 320	120	100	100		3,353	1,257	1,048	1,048			
227+00 to 235+00		4" 640	240	200	200		6,475	2,428	2,024	2,024			
275+00 to 314+00		5" 300	1170	975	975		34,769	10,430	8,692	8,692			
158+00 to 334+00													
Est. for Correcting Irreg. in Subgrade		678					6,575						
From Structure Quantities		79	70				790	700					
Totals		7,537	2,560	2,075	2,075		2,075	2,5394	20,579	20,579			

See Form 365

SURFACING PLAN (OVERLAY SECTIONS)

STATION TO STATION	SOURCE	TONS USED						HAUL - TON MILE					
		BASE COURSE			HOT BITUMINOUS PAVEMENT			BASE COURSE			HOT BITUMINOUS PAVEMENT		
		PLANT MIX BITUMINOUS BASE CL. 7	GRADING F. LAYER	GRADING F. MIDDLE LAYER	GRADING F. TOP LAYER	FINAL	P.M.B. CL. 7	GRADING F. BOTTOM LAYER	GRADING F. MIDDLE LAYER	GRADING F. TOP LAYER	FINAL		
175+00 to 195+00		3" 440	220	180	180		4835	2,418	1,978	1,978			
214+00 to 227+00		4" 390	143	117	117		4023	1,475	1,207	1,207			
235+00 to 240+00		4" 150	55	45	45		1,999	550	450	450			
240+00 to 263+60		5" 573	260	212	212		8,469	2,528	2,061	2,061			
263+60 to 275+00		5" 422	215	103	103		3,643	1,174	967	967			
314+00 to 316+40		5" 63	26	22	22		759	222	188	188			
Est. for COR. IRREG. IN SUBGRADE & ADDED QUANTITIES TO LEVELING CROWN AREA		236					732						
Totals		2,600	829	679	679		3,574	25,925	8,367	6,851	6,851		

NOTE: Stabilization based on:

Dynaflect Analysis (For Overlay Sections)
Avg. Deflection 1.796 M/15-3.29 M/15
W.S.N. 0-1.15
18% EDLA 60
Regional Factor 20
Serviceability Index 125
Subgrade R Value 10-61

Strength Coefficients: Hot Bituminous Pavement (Gr.F) 40
Plant Mix Bituminous Base (CL.7) 35

INDEX	Book Page Sheet
75	
75	

WETTING QUANTITIES		FINISH
Wetting	1434	7533
Compaction	1434	7533
Hydrated Lime	178	30
Lime Slurry	178	30
TOTAL	14612	7537

FINAL SUMMARY OF EARTHWORK QUANTITIES

UNCLASSIFIED EXCAVATION	Cu. Yd.	FINAL
ROADWAY (FROM COMPUTER)	32,439	50,1770
STRUCTURE QUANTITIES AS EMB.	137	
STRUCTURE QUANTITIES AS EXCAV.	15	
EST. FOR CUT SLOPE TREATMENT	162	
Excavation from County Road		1,226
Sub-Excavation		2,7449
TOTAL	32,753	53,0845

COMPACTION (AASHTO T 99)		
EMBANKMENT (NET) (from Computer)	22,346	26,7236
BASE OF CUTS AND FILLS	12,089	18,7590
STRUCTURE QUANTITIES AS EMB. (NET)	137	
Embarkment (Sub-Excavated Areas)		2,7449
TOTAL	34,572	48,2275

HAUL		
FROM MASS DIAGRAM FOR SUITABLE SUBDR MAT'L	34,232	29,0093
TOTAL	35,954	29,0093

ROADWAY QUANTITIES BALANCE (FOR INFORMATION ONLY)		
EXCAVATION		
UNCLASSIFIED	32,439	53,0845
Less Excavation for Re-cycled material		3,9999
TOTAL	32,439	49,0846

EMBANKMENT NET		
ROADWAY (FROM COMPUTER)	22,346	26,7236
Emb. (Sub-Exc. Areas)		1,498
EMBANKMENT X FACTOR (1.73713)		28,234
ROADWAY (FROM COMPUTER)	3,237	
EXCESS EXCAVATION	1,148	
TOTAL	32,439	

EXCESS EXCAV. TO BE DISPOSED OF AS: SUITABLE MATERIAL FOR SHOULDERS
Remaining Embankment (Sub-Exc.) Areas Filled with Crushed Asphalt.

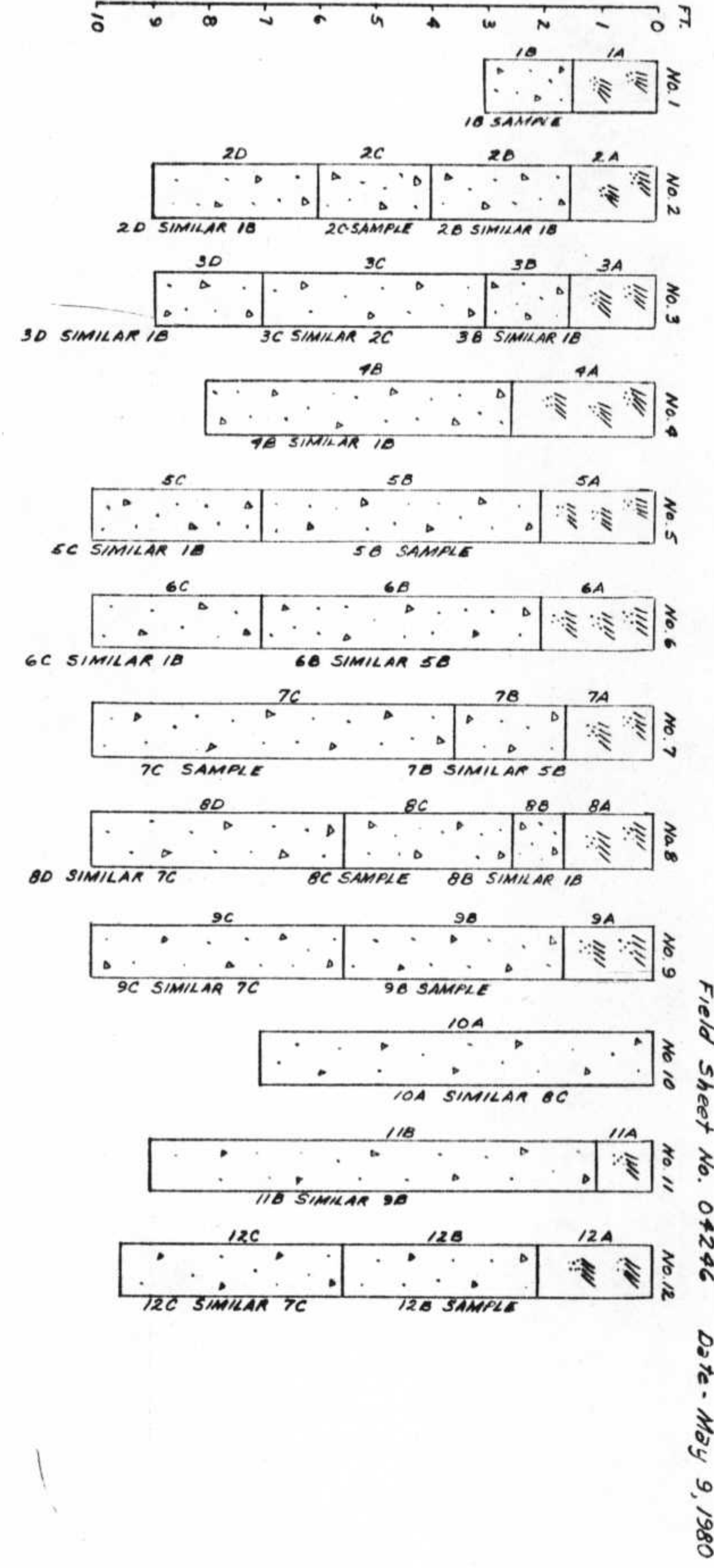
PIT SKETCH

FEDERAL ROAD REGION NO.	DIVISION	PROJ. NO.	SHEET NO.	TOTAL SHEETS
VIII	COLORADO	SP 0176 (3)	6	
AS CONSTRUCTED				
NO REVISIONS		REVISED	28 SEP 81	VOID

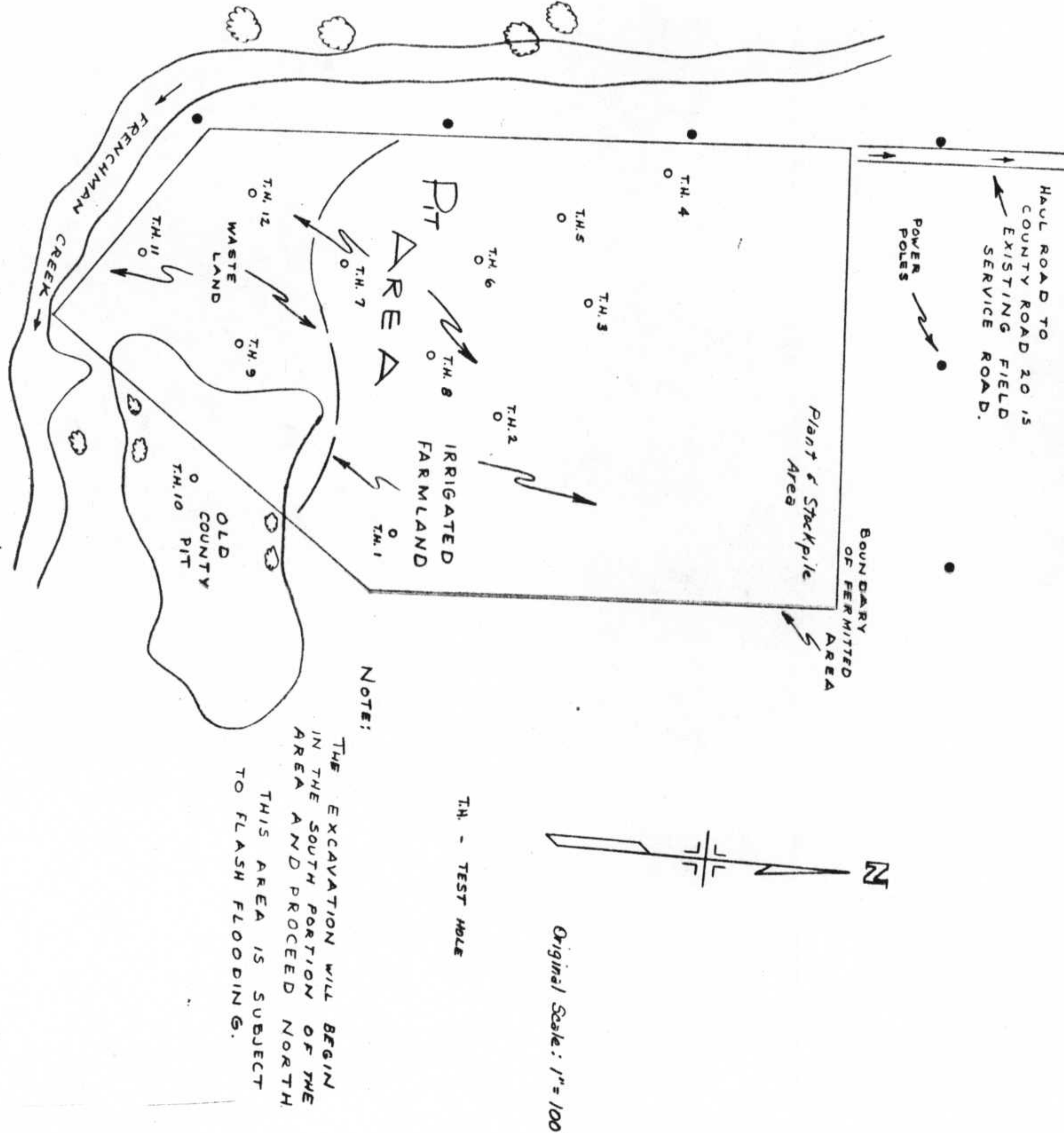
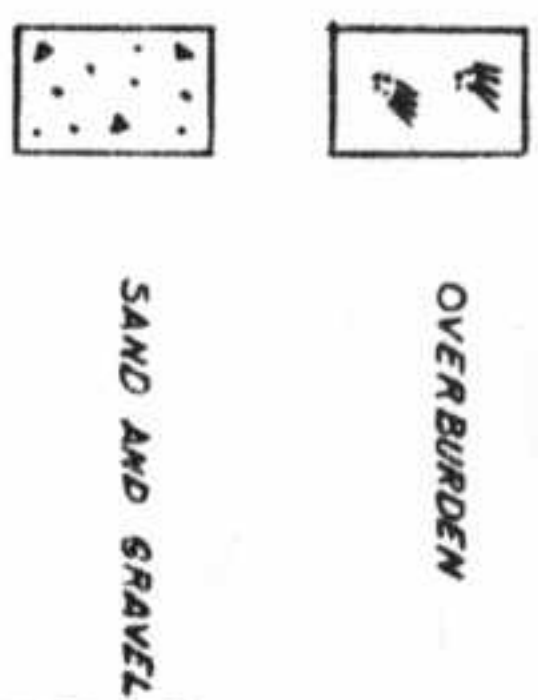
KLUTE PIT

Owner : Karl Klute, 736 Reynolds - Holyoke, Colorado 80734
Location : A Portion of the NE 1/4 of Sec. 20, T7N, R. 43 W.
Proposed Use : Aggregate for Hot Bituminous Pavement ~~From the Bituminous Base~~
Haul Distance : 8.08 Miles to Sta. ~~21+30~~ ²¹⁺³⁰
Quantity Available : 31,000 cu yds. Sand & Gravel
Stripping : Remove Overburden - ~~3000~~ ³⁵⁰² cu yds.
Replace Overburden - ~~5000~~ ¹⁶¹⁸ cu yds.
To Be Replaced On Future Project 1,884 cu yds.

LOG OF THE PIT



LEGEND



FINAL DELINEATORS

STATION	SIDE	SPACING	TYPE I		TYPE II
			EACH		
			FINAL	EACH	
211+00	Rt.	Intersection	3	3	
211+40	Lt.		3	3	
211+55	Rt.		3	3	
215+00	Lt.	"	3	3	
215+50 & 216+00	Lt.	"	—	6	
215+90 & 216+40	Rt.	"	3	3	
264+65	Rt.	"	3	3	
285+00	Lt.	"	3	3	
285+15	Rt.	"	3	3	
285+60	Lt.	"	3	3	
292+80	Lt.	"	3	3	
293+50	Lt. & Rt.	"	3	3	
294+30	Rt.	"	3	3	
TOTALS			36	48	

See Form 304

See Form 305

FINAL SCHEDULE OF CONSTRUCTION TRAFFIC SIGNS

SIGN CODE OR LEGEND	DIMENSIONS	PANEL SIZE			QUANTITY REQUIRED	FINAL
		A	B	C		
XR2-1(40)	36" x 48"		X		2	2
XR2-1(55)	36" x 48"		X		2	—
XW20-1	48" x 48"		X		4	4
3W20-1	36" x 36"	X			2	—
SG20-1	60" x 36"		X		2	2
SG20-2	60" x 24"		X		2	2
XW20-7B	48" x 48"		X		4	2
SR2-1(30)	24" x 30"	X			2	—
XWB-35	36" x 36"	X			2	2
BE/PREPARED/ TO/STOP	36" x 36"	X			2	2
XW20-4	48" x 48"		X		2	2
1WB-36	48" x 48"		X		2	2
VERTICAL PANEL					20	40
TRAFFIC CONE					20	20
TOTALS		4	16			

See Form 305

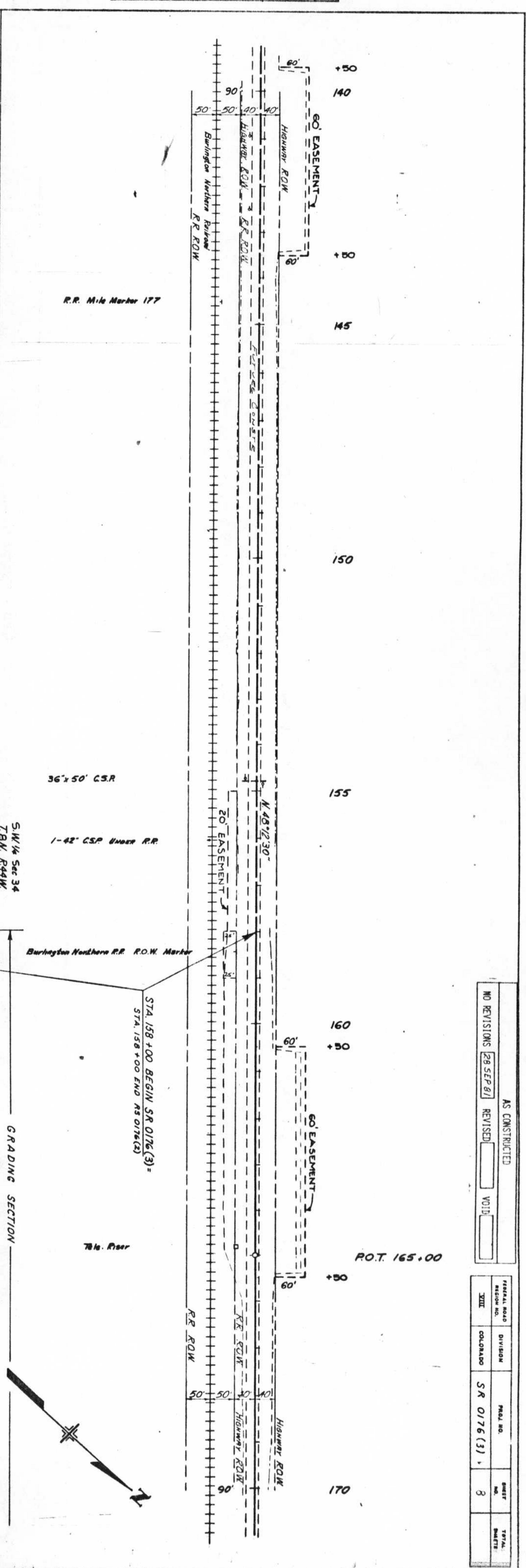
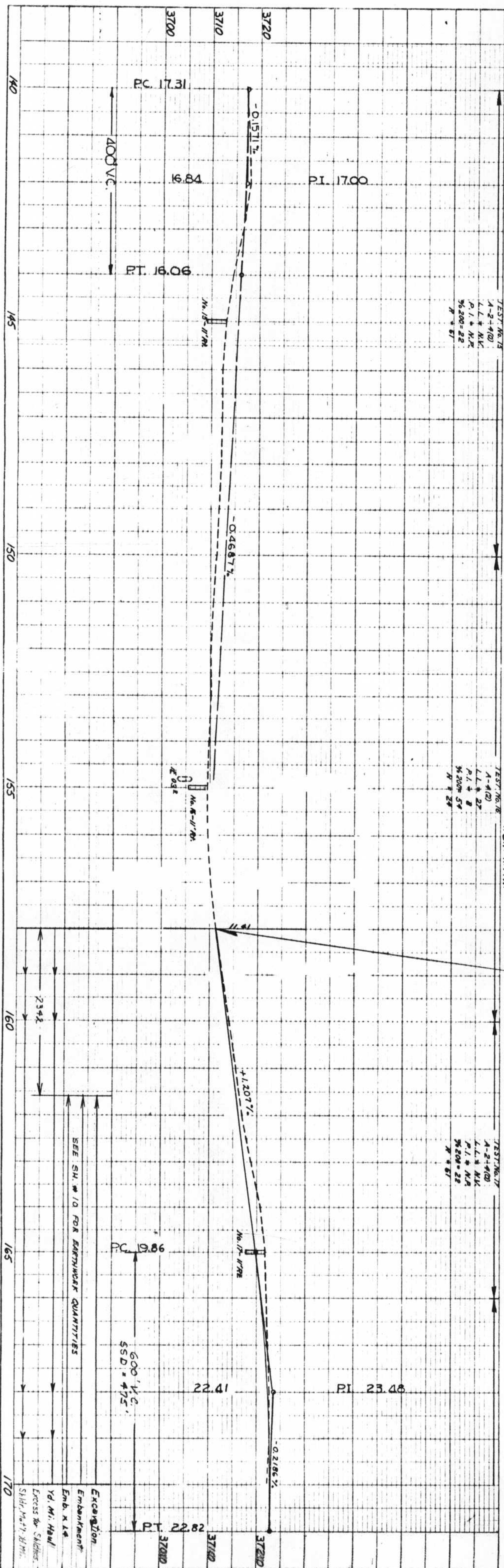
* Flagman Sign

* Shoulder Drop-off Sign

PROJECT NO.	DIVISION	PROJ. NO.	SHEET NO.	TOTAL SHEETS
VIII	COLORADO	54 0176 (3)	7	
AS CONSTRUCTED				
NO REVISIONS		REVISED	28 SEP 67	VOID

PROFILE	DATE
NOTE BOOK	BY
No.	DATE

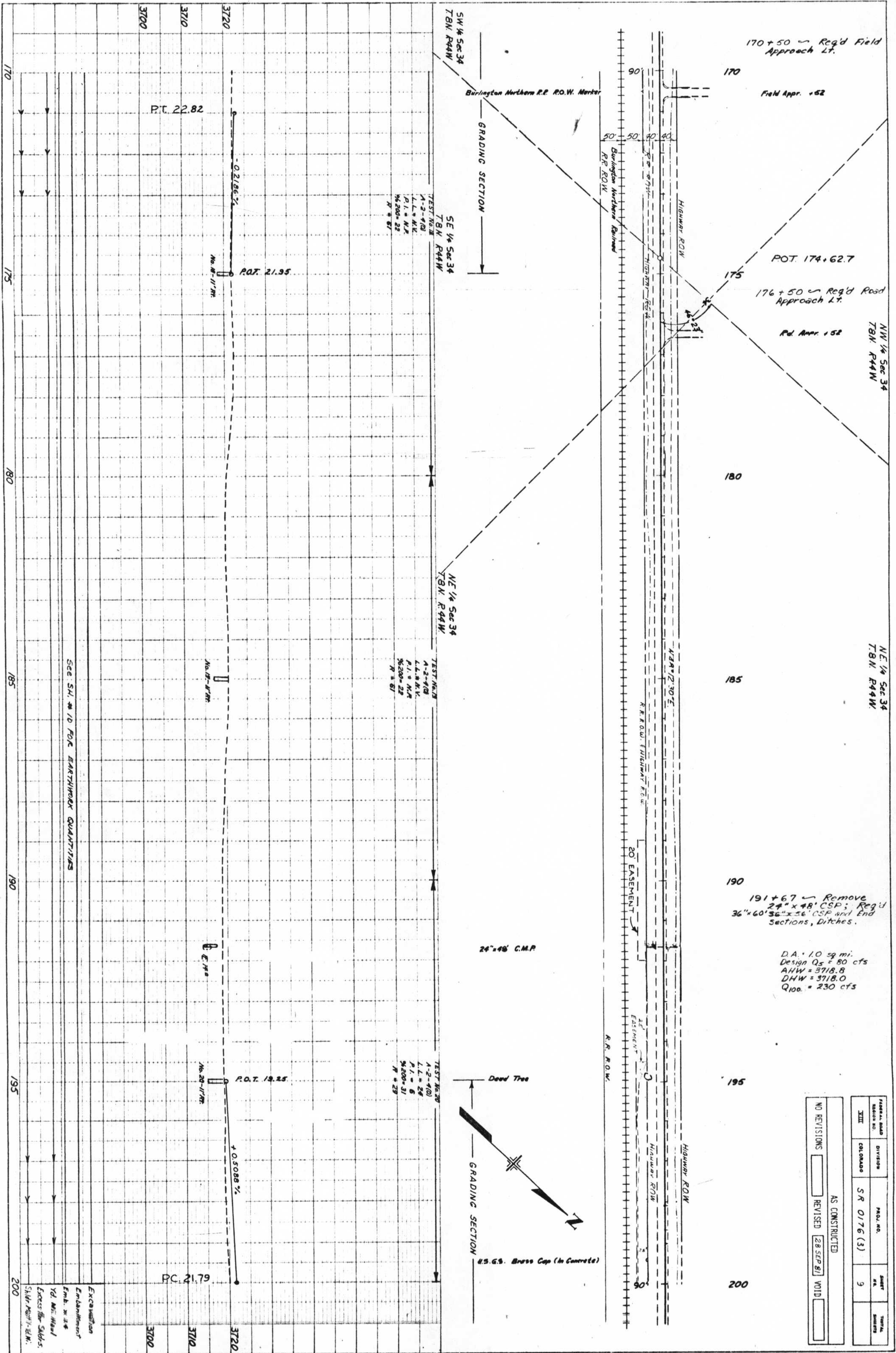
PLAN	DATE
NOTE BOOK	BY
No.	DATE



AS CONSTRUCTED	
NO REVISIONS	REVISED
28 SEP 81	VOID
FEDERAL ROAD DIVISION	
REGION NO.	PROJECT NO.
XIII	SR 0176(3)
COLORADO	SHEET NO.
	8
TOTAL SHEETS	

PROFILE	DATE
NOTE BOOK	BY
No.	DATE

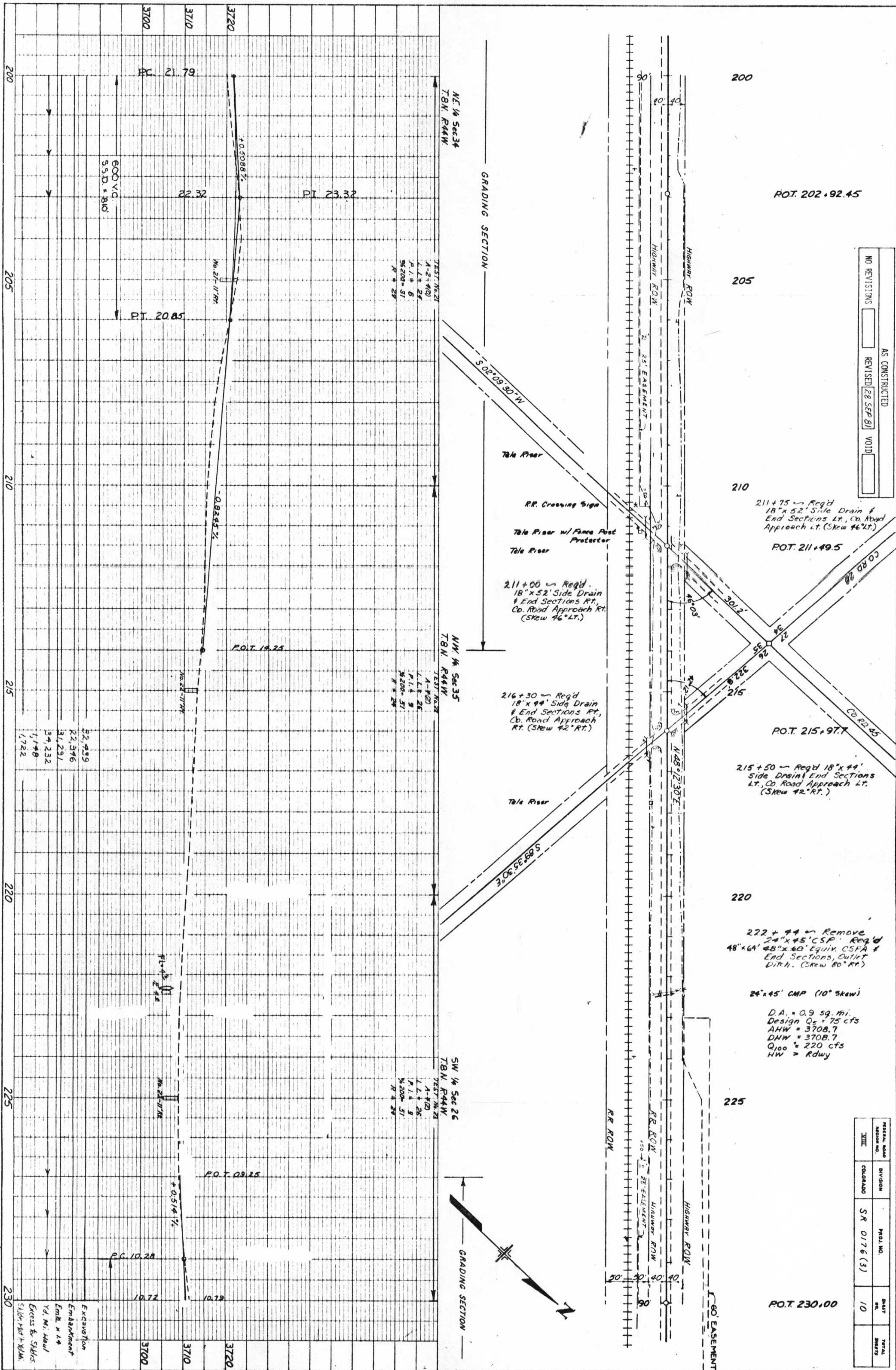
PLAN	DATE
NOTE BOOK	BY
No.	DATE



FEDERAL ROAD DISTRICT NO.	DIVISION	PROJ. NO.	SHEET NO.
III	COLORADO	SR 0176 (3)	9
NO REVISIONS		AS CONSTRUCTED	VOID
REVISED		28 SEP 81	VOID

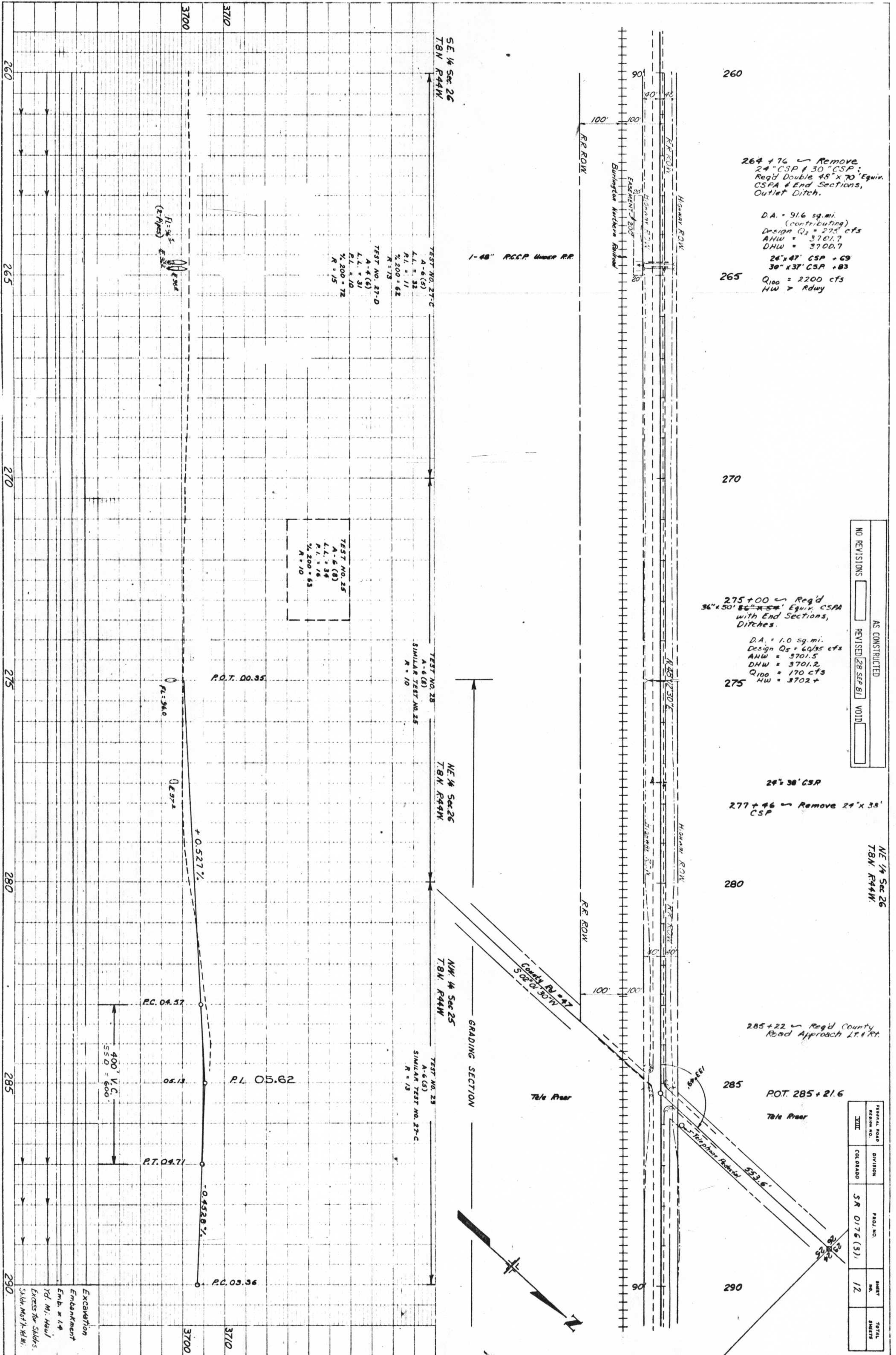
PROFILE NOTE BOOK No.	SURVEYED	BY	DATE
	NOTED		
	GRADES CHECKED		
	STRUCTURE NOTATIONS CHECKED		

PLAN NOTE BOOK No.	SURVEYED	BY	DATE
	NOTED		
	GRADES CHECKED		
	STRUCTURE NOTATIONS CHECKED		



NO REVISIONS	AS CONSTRUCTED
REVISED 28 SEP 87	VOID

PROJECT NO.	DIVISION	PROJ. NO.	SHEET NO.	TOTAL SHEETS
SR 0176(3)	SR	0176(3)	10	



264 + 76 ~ Remove
24" CSP & 30" CSP;
Reg'd Double 48" x 70" Equiv.
CSPA & End Sections,
Outlet Ditch.

D.A. = 91.6 sq. mi.
(contributing)
Design $Q_s = 275$ cfs
AHW = 3701.7
DHW = 3700.7
24" x 47" CSP + 69
30" x 37" CSP + 83
265
 $Q_{100} = 2200$ cfs
HW > Rdwy

275 + 00 ~ Reg'd
36" x 50" ~~24" x 38"~~ Equiv. CSPA
with End Sections,
Ditches.

D.A. = 1.0 sq. mi.
Design $Q_s = 60/95$ cfs
AHW = 3701.5
DHW = 3701.2
 $Q_{100} = 170$ cfs
275 HW = 3702 +

24" x 38" CSP

277 + 46 ~ Remove 24" x 38"
CSP

285 + 22 ~ Reg'd County
Road Approach LT. & RT.

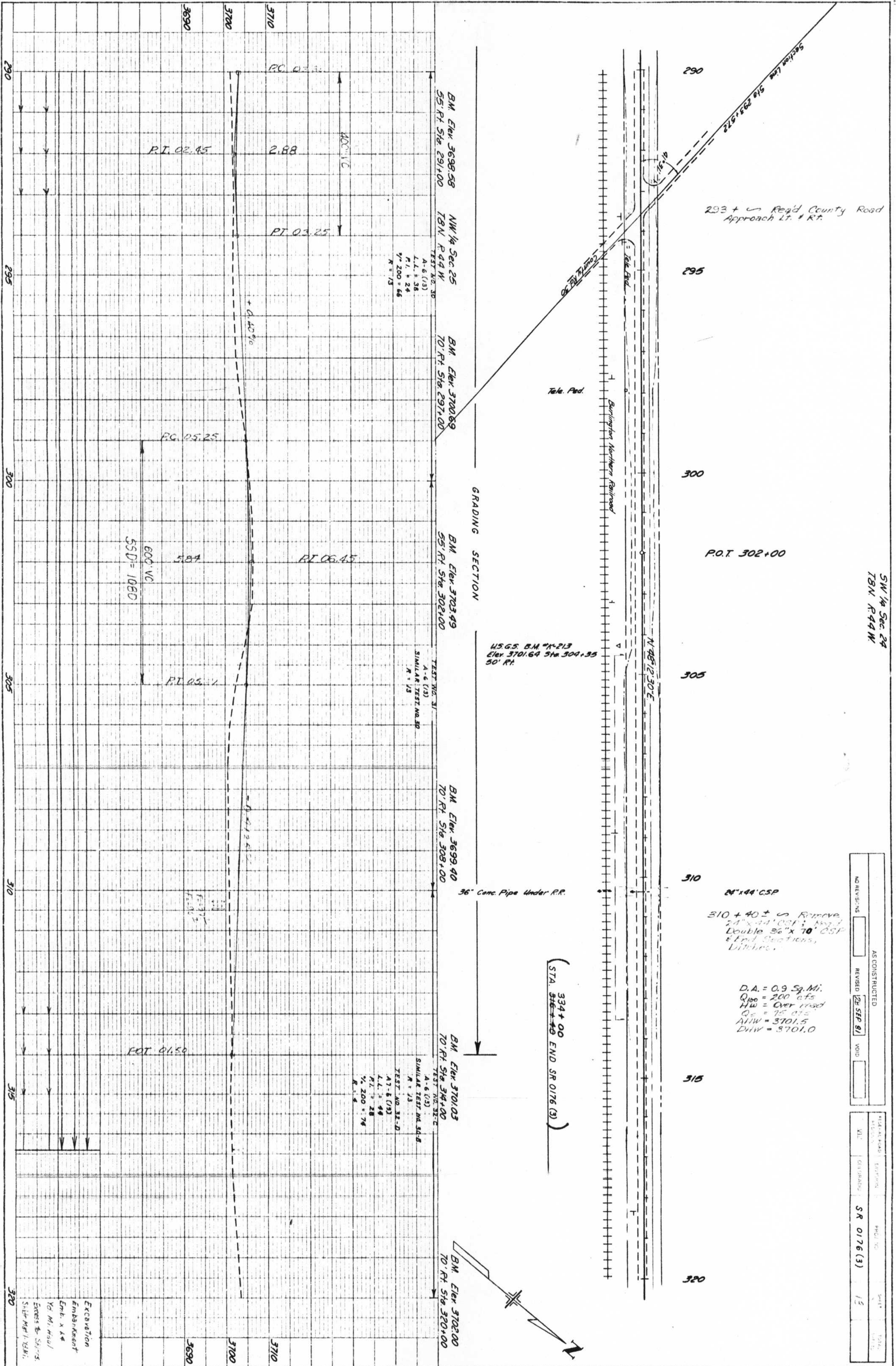
POT. 285 + 21.6

Tble River

NO REVISIONS		AS CONSTRUCTED
	REVISED [28 SEP 81]	VOID

NE 1/4 Sec 26
T8N R44W

FEDERAL ROAD DIVISION	PROJ. NO.	SHEET NO.	TOTAL SHEETS
XIII	COL. DRABO	SR 0176(3)	12



AS CONSTRUCTED		REVISED 28 SEP 81		VOID	
NO. REVISED	1	NO. REVISED	1	NO. REVISED	1
DATE	10/1/81	DATE	10/1/81	DATE	10/1/81
BY	SR 0176 (3)	BY	SR 0176 (3)	BY	SR 0176 (3)
SCALE	1" = 40'	SCALE	1" = 40'	SCALE	1" = 40'
PROJECT	SR 0176 (3)	PROJECT	SR 0176 (3)	PROJECT	SR 0176 (3)
SHEET	15	SHEET	15	SHEET	15

THE STANDARD PLAN SHEETS INDICATED HEREON BY A MARKED BOX ARE TO BE USED TO CONSTRUCT THIS PROJECT.

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□ M-107-A	TEMPORARY EROSION CONTROL	2
■ M-203-B	APPROACH ROADS, FLARING, CUT SLOPE TREATMENT, BRIDGE & CREST WIDENING	3
■ M-203-C	DITCH TYPES	4
□ M-203-SC	SUPERELEVATION OF CURVES—CROWNED HIGHWAYS	5
□ M-203-SD	SUPERELEVATION OF CURVES—DIVIDED HIGHWAYS	6
□ M-203-SS	SUPERELEVATION OF CURVES—STREETS	7
■ M-206-AB	EXCAVATION AND BACKFILL FOR STRUCTURES	8
□ M-214-A	PLANTING DETAILS	11
□ M-412-AB	CONCRETE PAVEMENT JOINTS	12
□ M-504-B	STEEL CRIBBING	13
□ M-506-A	GABIONS AND SLOPE MATRESS	14
□ M-510-AB	STRUCTURAL PLATE CULVERT PIPE—H-20 LOADING	15
□ M-601-BC1	SINGLE CONCRETE BOX CULVERT	17
□ M-601-BC2	DOUBLE CONCRETE BOX CULVERT	18
□ M-601-BC3	TRIPLE CONCRETE BOX CULVERT	19
□ M-601-CH	HEADWALL FOR PIPE CULVERTS	20
□ M-601-KA	TYPE "S" SADDLE HEADWALL FOR PIPE CULVERTS	21
□ M-601-L	HEADWALL, INTERCEPTING HEADWALL AND CULVERT OUTLET PAVING	23
□ M-601-WW	WINGWALLS FOR PIPE OR BOX CULVERTS	24
■ M-603-CA	CONCRETE AND METAL END SECTIONS	25
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DEPARTMENT OF HIGHWAYS
STATE OF COLORADO
DIVISION OF HIGHWAYS

STANDARD PLANS LIST

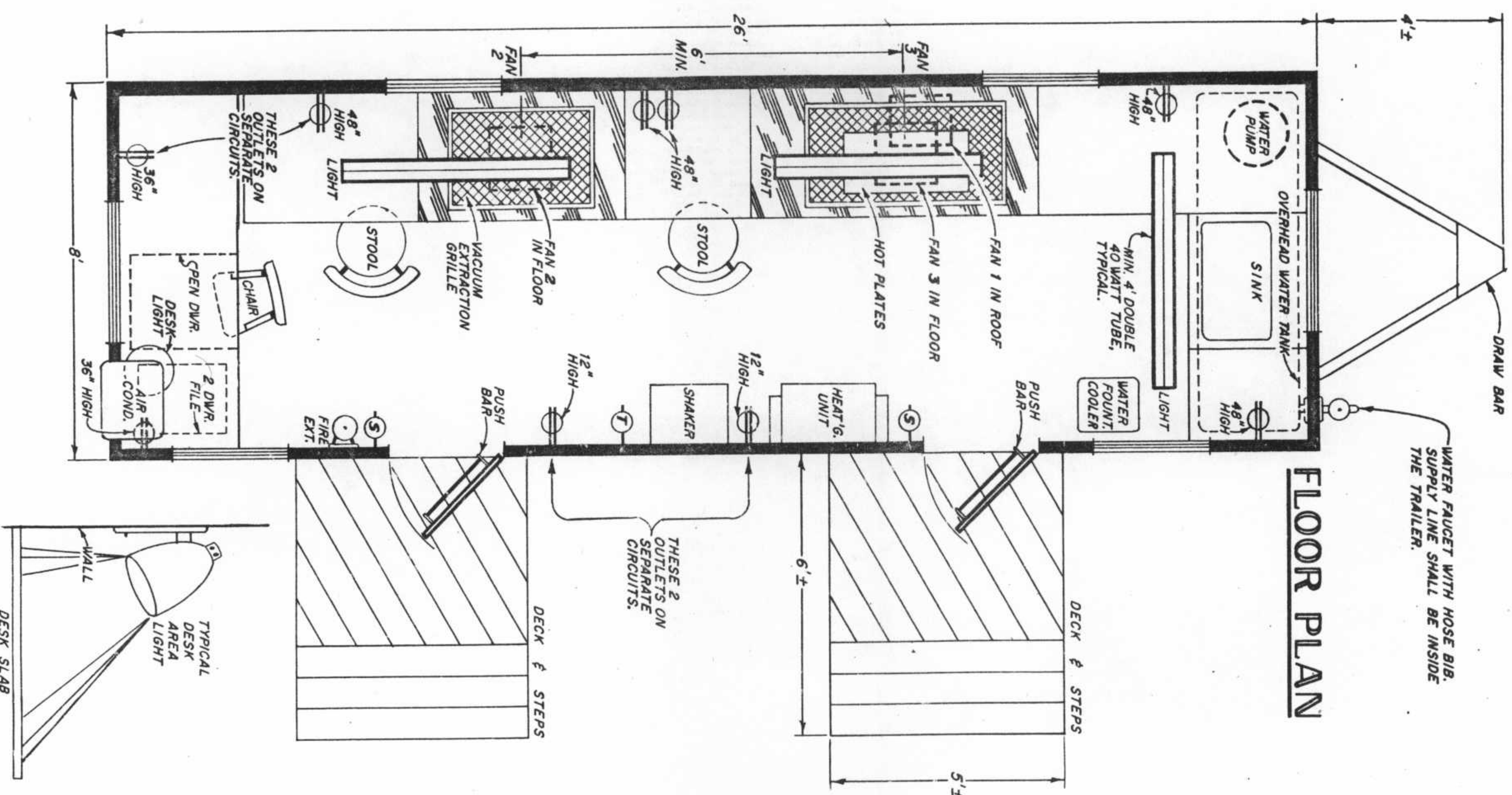
M & S STANDARDS — JANUARY, 1980

STANDARD M-620-B

(MAY 30, 1980)

DESIGN NO.	DIVISION	PROJ. NO.	SHEET NO.	TOTAL SHEETS
VIII	COLORADO			

FLOOR PLAN



LEGEND

- OUTLET, HEIGHTS SHOWN FROM FLOOR LEVEL.
- LIGHT
- THERMOSTAT

GENERAL NOTES

- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS APPLICABLE TO THE PROJECT.
- CLASS 1 FIELD LABORATORIES SHALL CONSIST OF A WEATHERPROOF, INSULATED, MOBILE HOUSE-TYPE TRAILER WITH FLOOR PLAN AND EQUIPMENT LAYOUT SIMILAR TO THE DRAWING ON THIS SHEET AND MEETING THE FOLLOWING MINIMUM REQUIREMENTS:
- OUTSIDE DIMENSIONS:** 26' LONG X 8' WIDE X 7' HIGH, EXCLUSIVE OF DRAW BAR.
- WINDOWS:** A MINIMUM OF 4, WITH PROVISION FOR CROSS VENTILATION.
- DOORS:** TWO LOCK EQUIPPED DOORS AT LEAST 32" WIDE WITH PUSH BAR OPENERS.
- STEPS:** EACH DOOR SHALL HAVE A SET OF STEPS WITH ADEQUATE TURNING ROOM ON DECK.
- ELECTRICAL:** 120 VOLTS. OUTLETS TO BE LOCATED AS INDICATED HEREON. CIRCUITS SHALL BE CAPABLE OF SAFELY DELIVERING 3000 WATTS TO EACH OUTLET. METAL OUTER SHELL OF TRAILER SHALL BE GROUNDED. ADEQUATE LIGHTING AS SHOWN.
- TESTING WATER SUPPLY:** 100 GALLONS, INSULATED AND PRESSURIZED BY PUMP, MIN. 30 PSI DELIVERY PRESS.
- DRINKING WATER SUPPLY:** DRINKING WATER SHALL BE DISPENSED FROM AN ACCEPTABLE COOLING DEVICE.
- VENT FANS:** 3 FANS, EACH EQUIPPED WITH A VARIABLE SPEED CONTROL. THE CUMULATIVE NOISE LEVEL OF ALL 3 FANS SHALL NOT EXCEED 100 SONES AIR MOVING AND COINTEGRATING ASSOCIATION (AMCA) RATING.
- FAN NO. 1.** SHALL BE FOR GENERAL VENTILATION, WITH A MINIMUM CAPACITY OF 1,000 CFM AND SHALL BE MOUNTED IN THE ROOF ABOVE THE HOT PLATE WORK AREA.
- FAN NO. 2.** SHALL HAVE A MINIMUM CAPACITY OF 1,250 CFM AND SHALL BE MOUNTED IN THE FLOOR DIRECTLY BENEATH THE VACUUM EXTRACTOR WORK AREA.
- FAN NO. 3.** SHALL HAVE A MINIMUM CAPACITY OF 1,250 CFM AND SHALL BE MOUNTED IN THE FLOOR DIRECTLY BENEATH THE HOT PLATE WORK AREA.
- FAN NOS. 2 AND 3 SHALL BE SEPARATED BY A MINIMUM OF 6 FEET.

AIR CONDITIONER:

ONE 8,300 BTU MINIMUM, 120 VOLTS, SHELIVING: A TOTAL OF 24 LINEAR FEET, 14 IN. WIDE.

WORK BENCH: A MIN. 19 FT. X 30" WIDE X 36" HIGH.

SINK: ONE, WITH FAUCET AND OUTSIDE DRAIN.

HOTPLATES: TWO, 2 BURNER, PORTABLE, ELECTRICAL "CAL-ROD" TYPE WITH AT LEAST ONE BURNER IN EACH UNIT RATED 1100 WATTS. EACH HOTPLATE SHALL BE EQUIPPED WITH AN "ON-OFF" INDICATOR LIGHT.

SIEVE SHAKER: ONE, MOTOR DRIVEN, STANDARD PORTABLE, CAPABLE OF HANDLING A SET OF 8" U.S. STANDARD SIEVES.

HEATING: A THERMOSTATICALLY CONTROLLED FORCED AIR UNIT WITH AN INPUT CAPACITY OF 200 BTU PER SQUARE FOOT OF FLOOR AREA.

FIRE EXTINGUISHER: SHALL BE ONE, NON-TOXIC, DRY CHEMICAL, MEETING UL APPROVAL FOR A 10 POUND CLASS ABC WITH A 20 BC RATING.

FURNITURE: ONE CHAIR WITH ROLLERS AT DESK AREA. TWO STOOLS FOR WORK AREA WITH HEIGHT COMPATIBLE WITH WORK BENCHES.

DESK: ONE 30" X FULL INSIDE WIDTH X 30" HIGH COUNTER AT OPPOSITE END OF TRAILER FROM SINK. DESK SHALL HAVE A PEN DRAWER AND ONE LEGAL SIZE 2 DRAWER METAL FILE CABINET.

DEPARTMENT OF HIGHWAYS
STATE OF COLORADO
DIVISION OF HIGHWAYS
FIELD LABORATORY
CLASS 1

Designed by W.R.B.
Made by J.R.B.
Checked by C.E.M.
Approved by J.R.B.
Date: 5/30/80

THE STATE DEPARTMENT OF HIGHWAYS
DIVISION OF HIGHWAYS - STATE OF COLORADO
PROJECT SR 0176(13) SUBACCOUNT 80089
ON SH 176, BEGINNING 2.4 MILES NORTHEAST OF HOLYOKE
AND EXTENDING 3.0 MILES NORTHEASTERLY
PHILLIPS COUNTY DISTRICT 4
CONSISTING OF GRADING, STRUCTURES, STABILIZATION,
HOT BITUMINOUS PAVEMENT AND HOT BITUMINOUS PAVEMENT OVERLAY
COMPLETION IN 50 DAYS
OCTOBER 9, 1980
ROLLING TERRAIN
9:45 AM



FILE	YOP
DIST. IV	
DIST. ENGR.	
ASST. ENGR.	
CONSTR.	
PRE-CONST.	
ERA	
UTIL	
DESIGN	
ROW	
MATL'S	
EEO	
RE-PE'S	
MAINT.	
TRAFFIC	

BID NO. 139
PAGE NO. 1-1

ITEM NO.	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT
202000010	REM STRUCTURE	EACH	6.00	300.0000	1800.00	378.0000	2268.00	500.0000	3000.00
203000000	UNCL EXCAV	CU YD	32753.00	1.7000	55680.10	1.6600	54369.98	1.9000	62230.70
203006000	STRIPPING	CU YD	6000.00	.6000	3600.00	.7900	4740.00	1.5000	9000.00
203010200	COMPACTION (AASHTO T 99)	CU YD	34572.00	.3500	12100.20	.3800	13137.36	.4000	13828.80
204000000	HAUL	YD MI	35954.00	.2500	8988.50	.3260	11721.00	.3000	10786.20
204000100	HAUL	TON MI	200544.00	.3000	60163.20	.1762	35335.85	.1800	36097.92
206000000	STR EXCAV	CU YD	349.00	8.0000	2792.00	6.4400	2247.56	5.0000	1745.00
206002000	STR BKFL (CL 2)	CU YD	266.00	12.0000	3192.00	9.4000	2500.40	8.0000	2128.00
207000050	TOPSOIL	CU YD	7052.00	2.5000	17630.00	1.7100	12058.92	1.5000	10578.00
207001100	STOCKPILE TOPSOIL	CU YD	7052.00	1.5000	10578.00	1.0800	7616.16	1.1000	7757.20
209000000	WETTING	M GAL	1587.00	6.0000	9522.00	5.9000	9363.30	5.0000	7935.00
212000050	SEEDING (NATIVE)	LB	292.00	8.0000	2336.00	8.7000	2540.40	6.5000	1898.00
212000350	FERTILIZER	LB	4750.00	.5500	2612.50	.2880	1368.00	.3000	1425.00
212000430	SOIL PREPARATION (NATIVE)	ACRE	19.00	35.0000	665.00	52.4000	995.60	20.0000	380.00
213000010	MULCHING	TON	32.00	250.0000	8000.00	225.8000	7225.60	225.0000	7200.00
301070020	PMBR (CL 7) (HL)	TON	10137.00	11.0000	111507.00	10.7700	109175.49	13.5500	137356.35
307003000	MINERAL FILLER	TON	1258.00	20.0000	25160.00	10.9000	13712.20	.5000	629.00
403060020	HBP (GR F) (HL)	TON	12471.00	11.0000	137181.00	10.8900	135809.19	13.5500	168982.05
411012000	ASPH CEMENT (AC-20)	TON	1261.00	160.0000	201760.00	155.4000	195959.40	100.0000	126100.00
411102510	EMUL ASPH (CSS-1)	GAL	5614.00	1.0000	5614.00	1.0700	6006.98	.9000	5052.60
411900500	CHEM-CRETE	TON	20.00	1650.0000	33000.00	1670.0000	33400.00	1550.0000	31000.00
603101800	18 IN CSP	LIN FT	192.00	18.0000	3456.00	15.5000	2976.00	17.5000	3360.00
603103600	36 IN CSP	LIN FT	210.00	35.0000	7350.00	27.4000	5754.00	30.0000	6300.00
603150360	36 IN EQUIV CSPA	LIN FT	72.00	35.0000	2520.00	31.0000	2232.00	39.0000	2808.00
603150480	48 IN EQUIV CSPA	LIN FT	196.00	55.0000	10780.00	45.1000	8839.60	47.5000	9310.00
603300180	18 IN SES	EACH	8.00	130.0000	1040.00	96.0000	768.00	70.0000	560.00
603300360	36 IN SES	EACH	6.00	350.0000	2100.00	365.0000	2190.00	250.0000	1500.00
603313360	36 IN EQUIV ARCH SES	EACH	2.00	350.0000	700.00	381.0000	762.00	250.0000	500.00
603313480	48 IN EQUIV ARCH SES	EACH	6.00	550.0000	3300.00	580.0000	3480.00	435.0000	2610.00
612000010	DELINEATOR (TY 1)	EACH	36.00	12.0000	432.00	12.4000	446.40	12.0000	432.00



ITEM NO.	DESCRIPTION	UNIT	QUANTITY	ENGINEERS ESTIMATE		AVERAGE OF 5 LOW BIDS		FLATIRON PAVING COMPANY OF GREELEY GREELEY COLO	
				UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT
614000000	FLAGGING	HOUR	2000.00	13.1600	26320.00	12.9500	25900.00	12.7500	25500.00
614803410	CONST TRAF SIGN (A)	EACH	6.00	120.0000	720.00	162.0000	972.00	300.0000	1800.00
614803420	CONST TRAF SIGN (B)	EACH	20.00	200.0000	4000.00	205.0000	4100.00	300.0000	6000.00
614803500	VERTICAL PANEL	EACH	20.00	60.0000	1200.00	38.0000	760.00	40.0000	800.00
614803800	TRAFFIC CONE	EACH	20.00	20.0000	400.00	11.2000	224.00	20.0000	400.00
620000110	FIELD LABORATORY (CL 1)	EACH	1.00	2500.0000	2500.00	2600.0000	2600.00	2000.0000	2000.00
620000200	SANITARY FACILITY	EACH	1.00	700.0000	700.00	870.0000	870.00	750.0000	750.00
626000000	MOBILIZATION	L S	1.00	35000.0000	35000.00	48800.0000	48800.00	50000.0000	50000.00
TOTALS					816399.50		773225.40		759739.82
INDEX					100.00		94.71		93.06

THE STATE DEPARTMENT OF HIGHWAYS
DIVISION OF HIGHWAYS - STATE OF COLORADO
PROJECT SR 0176(13) SUBACOUNT 80089
ON SH 176, BEGINNING 2.4 MILES NORTHEAST OF HOLYOKE
AND EXTENDING 3.0 MILES NORTHEASTERLY
PHILLIPS COUNTY DISTRICT 4
CONSISTING OF GRADING, STRUCTURES, STABILIZATION,
HOT BITUMINOUS PAVEMENT AND HOT BITUMINOUS PAVEMENT OVERLAY
COMPLETION IN 50 DAYS
OCTOBER 9, 1980
DENVER COLORADO
MRE GOALS
ROLLING TERRAIN
9:45 AM

BID NO. 139
PAGE NO. 2-1

ITEM NO.	STERLING PAVING COMPANY FT COLLINS COLO		PUEBLO PAVING PUEBLO COLORADO		DOMENIC LEONE CONSTRUCTION COMPANY TRINIDAD COLO		GOODELL BROTHERS INCORPORATED EATON COLO	
	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT
202000010	150.0000	900.00	240.0000	1440.00	800.0000	4800.00	200.0000	1200.00
203000000	2.0000	65506.00	1.8500	60593.05	1.0000	32753.00	1.5500	50767.15
203006000	.6500	3900.00	.7000	4200.00	.5000	3000.00	.6000	3600.00
203010200	.3500	12100.20	.3500	12100.20	.5000	17286.00	.3000	10371.60
204000000	.3000	10786.20	.3000	10786.20	.4500	16179.30	.2800	10067.12
204000100	.0010	200.54	.1800	36097.92	.2200	44119.68	.3000	60163.20
206000000	7.0000	2443.00	7.2000	2512.80	7.0000	2443.00	6.0000	2094.00
206002000	8.0000	2128.00	11.0000	2926.00	10.0000	2660.00	10.0000	2660.00
207000050	1.6000	11283.20	1.7000	11988.40	2.3000	16219.60	1.4500	10225.40
207001100	1.1000	7757.20	1.2000	8462.40	1.0000	7052.00	1.0000	7052.00
209000000	2.0000	3174.00	8.0000	12696.00	7.0000	11109.00	7.5000	11902.50
212000050	8.0000	2336.00	8.0000	2336.00	7.0000	2044.00	14.0000	4088.00
212000350	.2000	950.00	.3600	1710.00	.3300	1567.50	.2500	1187.50
212000430	90.0000	1710.00	22.0000	418.00	20.0000	380.00	110.0000	2090.00
213000010	180.0000	5760.00	264.0000	8448.00	240.0000	7680.00	220.0000	7040.00
301070020	11.4000	115561.80	9.2500	93767.25	9.5000	96301.50	10.1500	102890.55
307003000	11.0000	13838.00	15.0000	18870.00	15.0000	18870.00	13.0000	16354.00
403060020	11.5000	143416.50	9.2500	115356.75	10.0000	124710.00	10.1500	126580.65
411012000	170.0000	214370.00	180.0000	226980.00	162.0000	204282.00	165.0000	208065.00
411102510	.8500	4771.90	1.2000	6736.80	.7000	3929.80	1.7000	9543.80
411900500	1700.0000	34000.00	1600.0000	32000.00	1700.0000	34000.00	1800.0000	36000.00
603101800	16.0000	3072.00	16.0000	3072.00	14.0000	2688.00	14.0000	2688.00
603103600	27.0000	5670.00	29.0000	6090.00	26.0000	5460.00	25.0000	5250.00
603150360	30.0000	2160.00	29.0000	2088.00	30.0000	2160.00	27.0000	1944.00
603150480	45.0000	8820.00	48.0000	9408.00	45.0000	8820.00	40.0000	7840.00
603300180	120.0000	960.00	110.0000	880.00	80.0000	640.00	100.0000	800.00
603300360	400.0000	2400.00	425.0000	2550.00	400.0000	2400.00	350.0000	2100.00
603313360	450.0000	900.00	425.0000	850.00	380.0000	760.00	400.0000	800.00
603313480	650.0000	3900.00	690.0000	4140.00	550.0000	3300.00	575.0000	3450.00
612000010	12.0000	432.00	12.0000	432.00	15.0000	540.00	11.0000	396.00

ITEM NO.	STERLING PAVING COMPANY FT COLLINS COLO		PUEBLO PAVING PUEBLO COLORADO		DOMENIC LEONE CONSTRUCTION COMPANY TRINIDAD COLO		GOODSELL BROTHERS INCORPORATED EATON COLO	
	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT
614000000	13.0000	26000.00	13.0000	26000.00	13.0000	26000.00	13.0000	26000.00
614803410	140.0000	840.00	100.0000	600.00	150.0000	900.00	120.0000	720.00
614803420	200.0000	4000.00	150.0000	3000.00	200.0000	4000.00	175.0000	3500.00
614803500	20.0000	400.00	20.0000	400.00	50.0000	1000.00	60.0000	1200.00
614803800	5.0000	100.00	8.0000	160.00	15.0000	300.00	8.0000	160.00
620000110	3000.0000	3000.00	2500.0000	2500.00	3000.0000	3000.00	2500.0000	2500.00
620000200	600.0000	600.00	500.0000	500.00	2000.0000	2000.00	500.0000	500.00
626000000	44000.0000	44000.00	35000.0000	35000.00	65000.0000	65000.00	50000.0000	50000.00
TOTALS		764146.54		768095.77		780354.38		793790.47
INDEX		93.60		94.08		95.58		97.23