



COLORADO
Department of
Transportation

DOCUMENT SEPARATOR SHEET

REGION 5 – JUNE 2017 CONVERSION

To be placed at the beginning of each separator sheet.



r500001964

Description:

ROW Plans 11X17

Route # and Mile Points:

US 160

Originating Office:

ROW/Survey

File Name:

BRF 160-2(36)_ROW(.PDF)

Box Location:

31 of 38

STATE DEPARTMENT OF HIGHWAYS

DIVISION OF HIGHWAYS—STATE OF COLORADO

P.E. ROW, And
Utilities are Under
Project No. BRF 160-2(31)

FEDERAL ROAD REGION NO.	DIVISION	PROJECT NO.	SHEET NO.
VIII	COLORADO	BRF 160-2(36)	1

AS CONSTRUCTED		
NO REVISIONS	REVISED	VOID

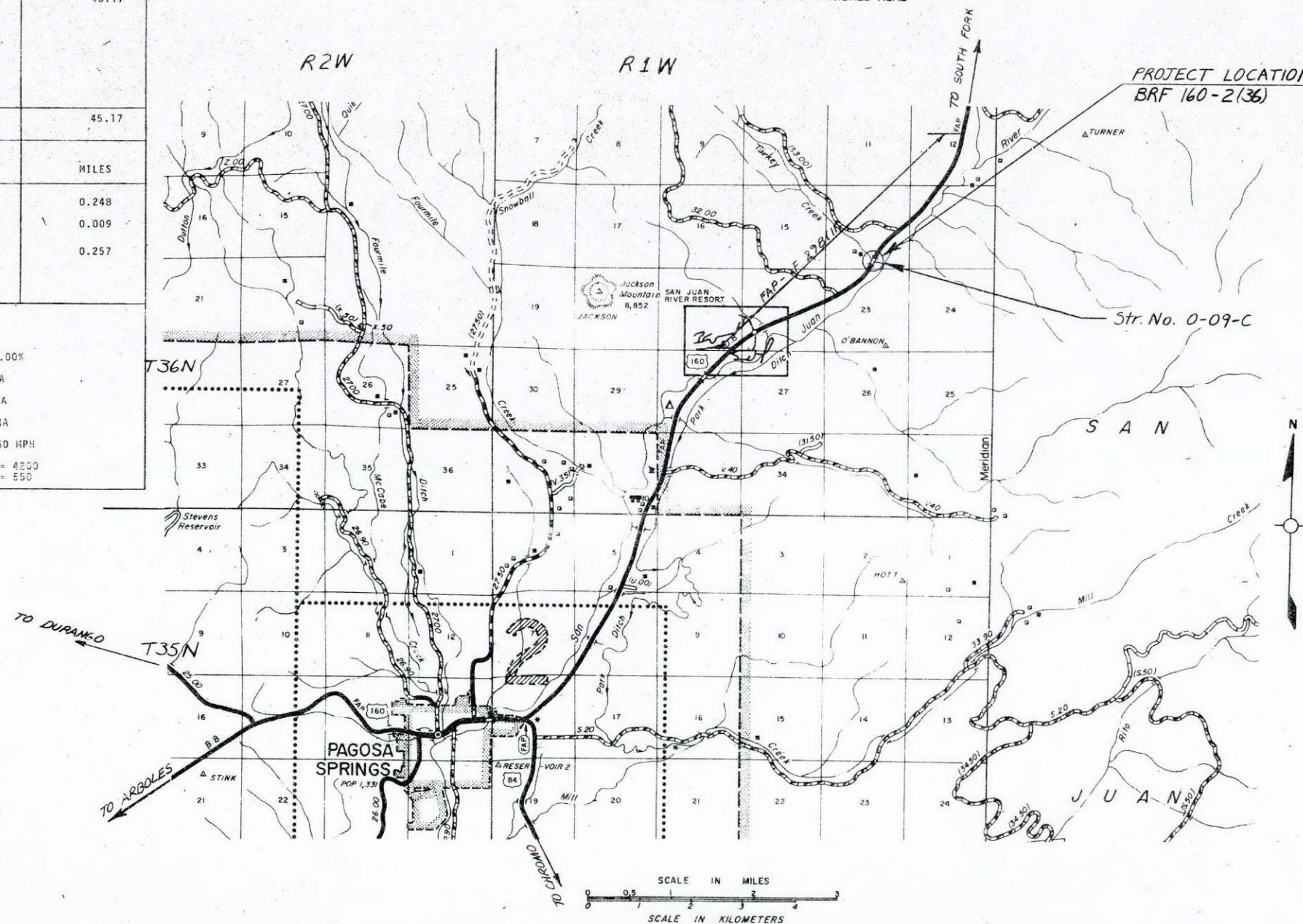
REVISIONS		

PLAN AND PROFILE OF PROPOSED FEDERAL AID PROJECT NO. BRF 160-2(36) STATE HIGHWAY NO. 160 ARCHULETA COUNTY

TABULATION OF LENGTH AND DESIGN DATA

STATION	LINEAR FEET	
	ROADWAY	MAJOR STRUCTURE
STA. 1306+46, M.P. 151.49 = BEGIN BRF 160-2(36) = 1306+46 ON FAP-F 298(11) = STA 10+00 BEGIN DETOUR (20' LT.)	743.83	
STATION 1313+89.83 BEGIN STRUCTURE NO. 0-09-C		45.17
STATION 1314+35 END STRUCTURE NO. 0-09-C	565	
STA 1320+00, M.P. 151.75 = END BRF 160-2(36) = 1320+00 ON FAP-F 298(11) = STA 23+61.97 END DETOUR (17' RT)		
TOTALS	1308.83	45.17
SUMMARY	LIN. FT.	MILES
ROADWAY (NET LENGTH)	1308.83	0.248
MAJOR STRUCTURE	45.17	0.009
PROJECT (GROSS LENGTH)	1354	0.257
DESIGN DATA		
MAXIMUM GRADE	= 5.00%	
MAXIMUM DEGREE CURVE	= 4A	
MINIMUM SSD (VERTICAL)	= 4A	
MINIMUM SSD (HORIZONTAL)	= NA	
MAXIMUM DESIGN SPEED	= 60 MPH	
2003 DESIGN TRAFFIC VOLUMES	ADT = 4200 DHV = 550	

SCALES OF ORIGINAL DRAWINGS
ON PLAN, 1 IN. = 50 FT.
ON PROFILE { 1 IN. = 50 FT. HORIZONTAL
1 IN. = 5 FT. VERTICAL
GRADE LINE ON PROFILE IS SHOWN AS GRADE OF FINISHED ROAD



INDEX OF SHEETS

SHEET NO.	
1	TITLE PAGE
2	STANDARD PLANS LIST
3	TYPICAL SECTIONS AND DETAIL OF SLOPE FINISHING
4	SUMMARY OF EARTHWORK AND GENERAL NOTES
5-6	SUMMARY OF APPROXIMATE QUANTITIES
7	STRUCTURE QUANTITIES
8	FENCING REQUIREMENTS, TABULATION OF GUARD RAIL, SURFACING PLAN, CONSTRUCTION TRAFFIC CONTROL DEVICES AND RIPRAP TYPICAL SECTION
9	LANDSCAPE PLAN
10-18	DETAIL OF STRUCTURE NO. 0-09-C
19	ALIGNMENT PLAN AND PROFILE SHEET
20	DETOUR PROFILE
NEW STANDARD	
M-606-12	GUARD RAIL - TYPE 4 CONCRETE BARRIER (9 SHEETS) 2-18-83

DIVISION OF HIGHWAYS	
APPROVED:	DATE
D. H. Heiderstadt for R. L. CLEVENGER CHIEF ENGINEER	8/24/83
AS CONSTRUCTED INFORMATION	
CONTRACTOR	ENGINEER
(Project or Resident)	
PROJECT STARTED	
PROJECT COMPLETED	
AS CONSTRUCTED PLANS	APPROVED
TITLE	DATE

JLH

FEDERAL ROAD REGION NO.	DIVISION	PROJ. NO.	SHEET NO.	TOTAL SHEETS
VIII	COLORADO	BRF 160-2(36)	9	

AS CONSTRUCTED

NO REVISIONS ☐ REVISED ☐ VOID ☐

NOTES:

NO BARE ROOT MATERIAL WILL BE ACCEPTED.

FERTILIZER TABLETS: 21 GRAM FERTILIZER TABLETS SHALL HAVE A 20-10-5 ANALYSIS AND SHALL BE APPLIED TO PLANTS AT THE FOLLOWING RATES:

BALL AND BURLAP STOCK: 1 TABLET PER 1/2" CALIPER

SHRUBS AND TUBELINGS: 1 TABLET PER PLANT

FERTILIZER TABLETS SHALL BE INCLUDED IN THE PRICE OF THE PLANTS.

PRIOR TO INSTALLATION, ALL TREE AND SHRUB LOCATIONS SHALL BE STAKED BY THE CONTRACTOR FOR APPROVAL BY THE ENGINEER.

FRESH WOOD CHIP MULCH 8" THICK SHALL BE REQUIRED FOR PLANTING BASINS. WOOD CHIP MULCH SHALL NOT BE PAID FOR SEPARATELY, BUT WILL BE INCLUDED IN THE PRICE OF THE WORK.

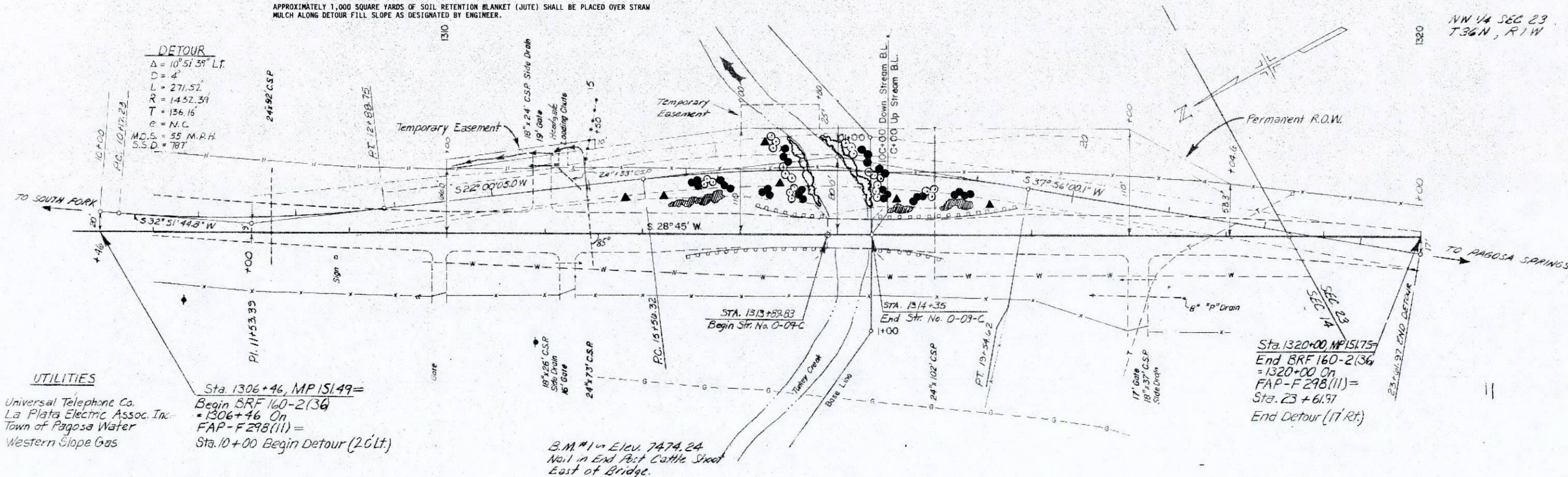
SOIL CONDITIONER (PEAT) SHALL BE ADDED TO BACKFILL FOR TREES AND SHRUBS IN ACCORDANCE WITH SUBSECTION 214.03, BACKFILLING. SOIL CONDITIONER (PEAT) SHALL BE INCLUDED IN THE PRICE OF THE WORK.

ALL WIRE BASKETS ON B & B TREES SHALL BE REMOVED PRIOR TO BACKFILLING.

REMOVAL AND RELAYING OF RIPRAP FOR PLANTING OF WILLOWS SHALL BE INCLUDED IN THE PRICE OF THE WORK.

APPROXIMATELY 1,000 SQUARE YARDS OF SOIL RETENTION BLANKET (JUTE) SHALL BE PLACED OVER STRAM MULCH ALONG DETOUR FILL SLOPE AS DESIGNATED BY ENGINEER.

SYMBOL	COMMON NAME	BOTANIC NAME	SIZE	QUANTITY	REMARKS
●	NARROWLEAF COTTONWOOD	POPULUS ANGUSTIFOLIA	1 1/2" CAL	30	B & B
○	QUAKING ASPEN	POPULUS TREMULOIDES	1 1/2" CAL	24	B & B
☁	BLUESTEM WILLOW	SALIX IRRORATA	2 FOOT	60	3' O.C. 30 PLANTS EACH SIDE OF STREAM
▲	COLORADO REDTIG DOGWOOD/CORNUS STOLONIFERA COLORADENSIS		2 FOOT	36	3' O.C. PLANT IN GROUPS OF 6
⦿	WILD ROSE	ROSA ACICULARIS	12 INCH	50	18" O.C.



LANDSCAPE PLAN

1306+46 to 1320+00 ~ Req'd Detour Lt.
 Detour Culvert Pipe, Lt. and Riprap
 at Inlet (See Detail) (See Special Ap-
 provians for Culvert Requirements)
 Maximum Diameter Pipe = 14'

DETOUR

$\Delta = 10^{\circ} 51' 39''$ Lt.
 $D = 4'$
 $L = 271.52'$
 $R = 1432.39'$
 $T = 136.16'$
 $e = N.C.$
 $M.D.S. = 55$ M.P.H.
 $S.S.D. = 187'$

1312+00 to 1318+00 ~ Req'd 1208 Lin. Ft.
 Concrete Barrier (Temporary) Lt.

SE 1/4, SEC 14
 T36N, R1W

AS CONSTRUCTED		
NO REVISIONS	REVISED	VOID

REVISION	DATE	BY	PROJECT NO.	SHEET NO.	TOTAL SHEETS
1			BRF 160-2(36)	19	

NW 1/4 SEC 29
 T36N, R1W

DETOUR

1315
 $\Delta = 15^{\circ} 55' 55''$ Rt.
 $D = 4'$
 $L = 398.30'$
 $R = 1432.39'$
 $T = 200.44'$
 $e = N.C.$
 $M.D.S. = 55$ M.P.H.
 $S.S.D. = 1188'$

1315+00 ~ Extend
 24" x 102' C.S.P.
 52' Lt.

1313+ to 1315+ ~ Remove Detour
 Req'd Riprap (See Detail)

Permanent R.O.W.

UTILITIES

Universal Telephone Co.
 La Plata Electric Assoc. Inc.
 Town of Pagosa Water
 Western Slope Gas

Sta. 1306+46, MP 151.49 =
 Begin BRF 160-2(36)
 = 1306+46 On
 FAP-F298(11) =
 Sta. 10+00 Begin Detour (20' Lt.)

1309+23 ~ Req'd Road Approach, Rt.

1311+24 ~ Req'd Road Approach, Rt.

B.M. #1 ~ Elev. 7474.24
 Nail in End Post Cattle Shoot
 East of Bridge.

1313+ to 1314+ ~ Remove Bridge Deck
 Req'd Bridge Deck
 (See Details)

1317+10 ~ Req'd Road Approach, Rt.

Sta. 1320+00, MP 151.75 =
 End BRF 160-2(36)
 = 1320+00 On
 FAP-F298(11) =
 Sta. 23+61.97
 End Detour (17' Rt.)

TO PAGOSA SPRINGS

Note: Profile Grade is 1 1/2" Above
 Existing Roadway Grade.

