



COLORADO
Department of
Transportation

DOCUMENT SEPARATOR SHEET

REGION 5 – JUNE 2017 CONVERSION

To be placed at the beginning of each separator sheet.



r500001767

Description:

ROW Plans 11X17

Route # and Mile Points:

SH 151

Originating Office:

ROW/Survey

File Name:

S 0123(2)_ROW(.PDF)

Box Location:

28 of 38

FEDERAL ROAD REGION NO.	DIVISION	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLORADO	SO123 (2)	1	

COLORADO DEPARTMENT OF HIGHWAYS

PLAN AND PROFILE OF PROPOSED FEDERAL AID PROJECT NO. SO123 (2) STATE HIGHWAY NO. 151 ARCHULETA COUNTY

INDEX OF SHEETS

SHEET NO:

- 1 SKETCH MAP, TITLE PAGE AND TABULATION OF LENGTH AND DESIGN DATA
- 2 TYPICAL SECTION AND GENERAL NOTES
- 3 SUMMARY OF APPROXIMATE QUANTITIES
- 4 SURFACING AND SUB-BASE MATERIAL PLANS, AND PIT LOCATION
- 5 SUMMARY OF EARTHWORK QUANTITIES, AND TABULATIONS OF FENCING, GUARD POSTS AND RIGHT OF WAY MARKERS
- 6-8 LIST OF STRUCTURE QUANTITIES
- 9 DETAILS OF 132" MULTIPLE PLATE C.M.P. STA. 261+
- 9A-9B DETAILS OF BRIDGE, STA. 309+ TO 312+
- 10-20 STANDARD METHODS FOR SUPERELEVATION AND WIDENING OF CURVES
- 21 STANDARD SIDE APPROACH ROADS, FLARING, CUT SLOPE TREATMENT AND WIDENING AT BRIDGES AND AT CREST OF GRADES
- 22 STANDARD MARKER POSTS AND BENCH MARKS
- 23 STANDARD LETTERS AND FIGURES FOR YEAR NUMBERS AND STRUCTURE NUMBERS
- 24 STANDARD TIMBER GUARD POSTS
- 25 STANDARD METAL PLATE GUARD FENCE (BEAM TYPE)
- 26A STANDARD WIRE FENCE WITH METAL POSTS
- 27-29 STANDARD ROADWAY CONSTRUCTION TRAFFIC SIGNS
- 30 STANDARD SINGLE AND DOUBLE CONCRETE BOX CULVERTS
- 31 STANDARD WINGWALLS FOR VARIOUS TYPES OF CONCRETE BOX CULVERTS
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- 34 STANDARD TYPES OF DITCHES AND CONSTRUCTION METHODS
- 35 STANDARD MULTIPLE PLATE CULVERT DETAILS
- 36-44 ALIGNMENT PLAN AND PROFILE
- 45-58 STRUCTURE CROSS SECTIONS
- 26A STANDARD WIRE FENCE WITH WOODEN POSTS
- 9A-9B DETAILS OF TRIPLE 60" CROSS CULVERT AND CONCRETE INLET AND OUTLET BOXES, STA. 298+00.

M-1-D
M-2-EN
M-7-D
M-10-D
M-19-E
M-21-D
M-27-D
M-29-C
M-50-B
M-50-BW
M-60-B
M-102-J
M-107-D
M-113-D
M-24-J

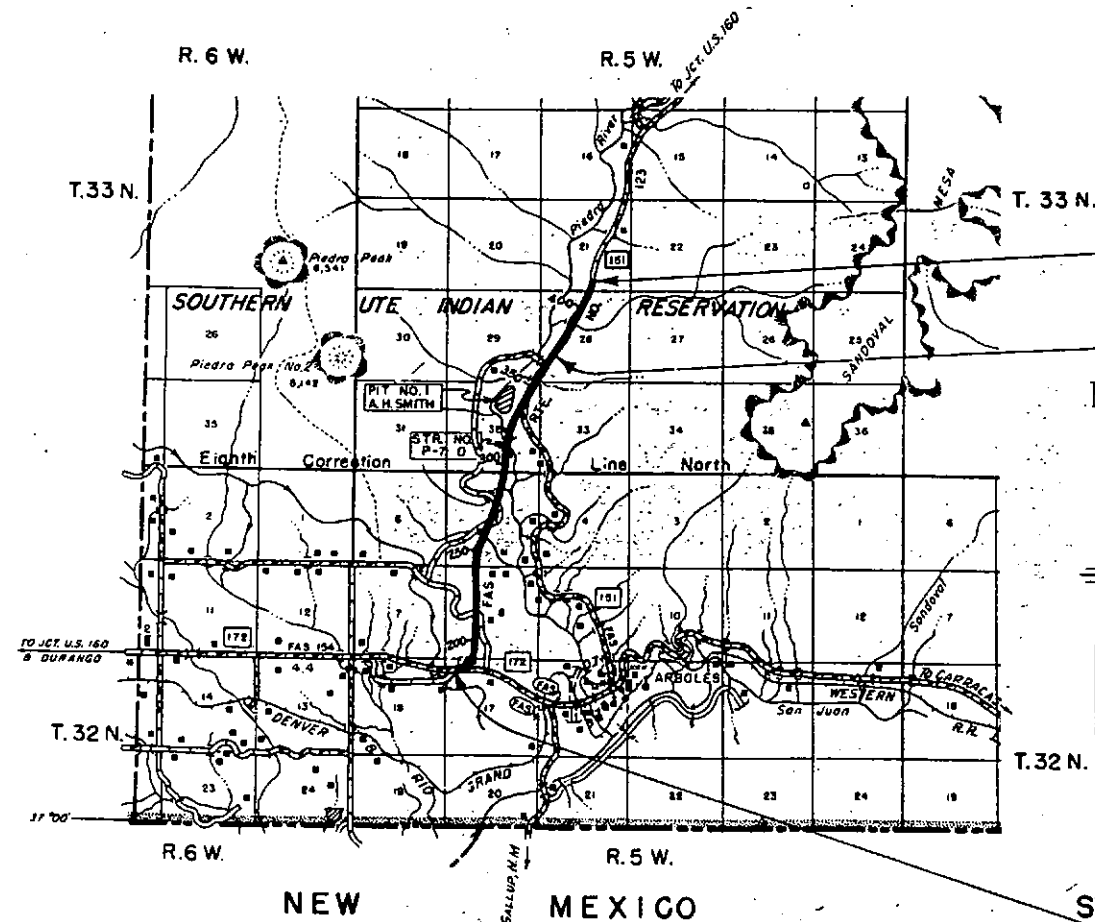
SCALES OF ORIGINAL DRAWINGS

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
GROSS LENGTH OF PROJECT 23,991.0 LIN. FT. = 4.544 MILES
NET LENGTH OF PROJECT

TABULATION OF LENGTH AND DESIGN DATA

STATION	ROADWAY	BRIDGES		
	LIN. FT.	LIN. FT.	LOADING	
175+09 BEGIN SO123(2) OPPOSITE STATION 175+09 BEGIN SO154(6) = END SO154(12) BEGIN BUREAU OF RECLAMATION PARTICIPATION	13,399.0			
309+08.0 BRIDGE		363.7	H-20-S16(44)	
312+71.7	5,728.3			
370+00. END BUREAU OF RECLAMATION PARTICIPATION	4,500.0			
415+00 END SO123 (2)				
TOTALS	23,627.3	363.7		
SUMMARY				
BUR. OF RECL. PARTICIPATION *	LINEAR FEET		MILES	
ROADWAY	19,127.3		3.625	
BRIDGE	363.7		0.069	
SUB TOTAL	19,491.0		3.692	
STATE FINANCED ROADWAY	4,500.0		0.852	
TOTAL NET & GROSS LENGTH	23,991.0		4.544	
DESIGN DATA				
MAXIMUM DEGREE OF CURVE	4°30' ✓			
MAXIMUM GRADE	7.00% ✓			
MINIMUM N.P.S.D. (HORIZONTAL)	455' ✓			
MINIMUM N.P.S.D. (VERTICAL)	495' ✓			
MAXIMUM DESIGN SPEED	40 M.P.H. ✓			

* SEE NOTES BELOW SUMMARY OF APPROXIMATE QUANTITIES ON SHEET NO. 3.



STA. 415+00 END SO123 (2)

STA. 370+00 END BUREAU OF
RECLAMATION PARTICIPATION

SEE SPECIAL PROVISIONS FOR NOTICE TO BIDDERS

STA. 175+09 BEGIN SO123(2)

OPPOSITE STA. 175+09 BEGIN SO154(6) =
END SO154(12).

COLORADO
DEPARTMENT OF HIGHWAYS

APPROVED: *Mark J. Westman* 7-19-60
CHIEF ENGINEER. DATE

DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC ROADS

APPROVED: _____ DATE _____

DIVISION ENGINEER

SCALE OF MILES

PLAN	SHEET NO.	DATE
22161	36	11/22/62

NOTE:

Alignment and Grades as shown are subject to modification during construction after approval by the Denver Office.

Soil data shown on the plans is obtained from best available testing laboratory information. This information is for convenience of the Contractor and the Department does not guarantee the accuracy of these tests. If materials are encountered during construction the data on plans are encountered during construction the grading plan shown on plans will be modified where necessary to secure dense, stable embankments.

STA 175+09-BEGIN S 0123(2)
Opposite 175+09-End S 0154(12)
BEGIN S 0154(6)

170+ to 175+09 - Req'd Approach to Project.

B.M. #1 - Elev 6271.28
Nail in Fence Corner Post 40' Lt Sta 168+50 T.32N., R.5W., N.M.P.M.

B.M. #2 - Elev 6283.34
Nail in Power Pole Rt Sta 172+40

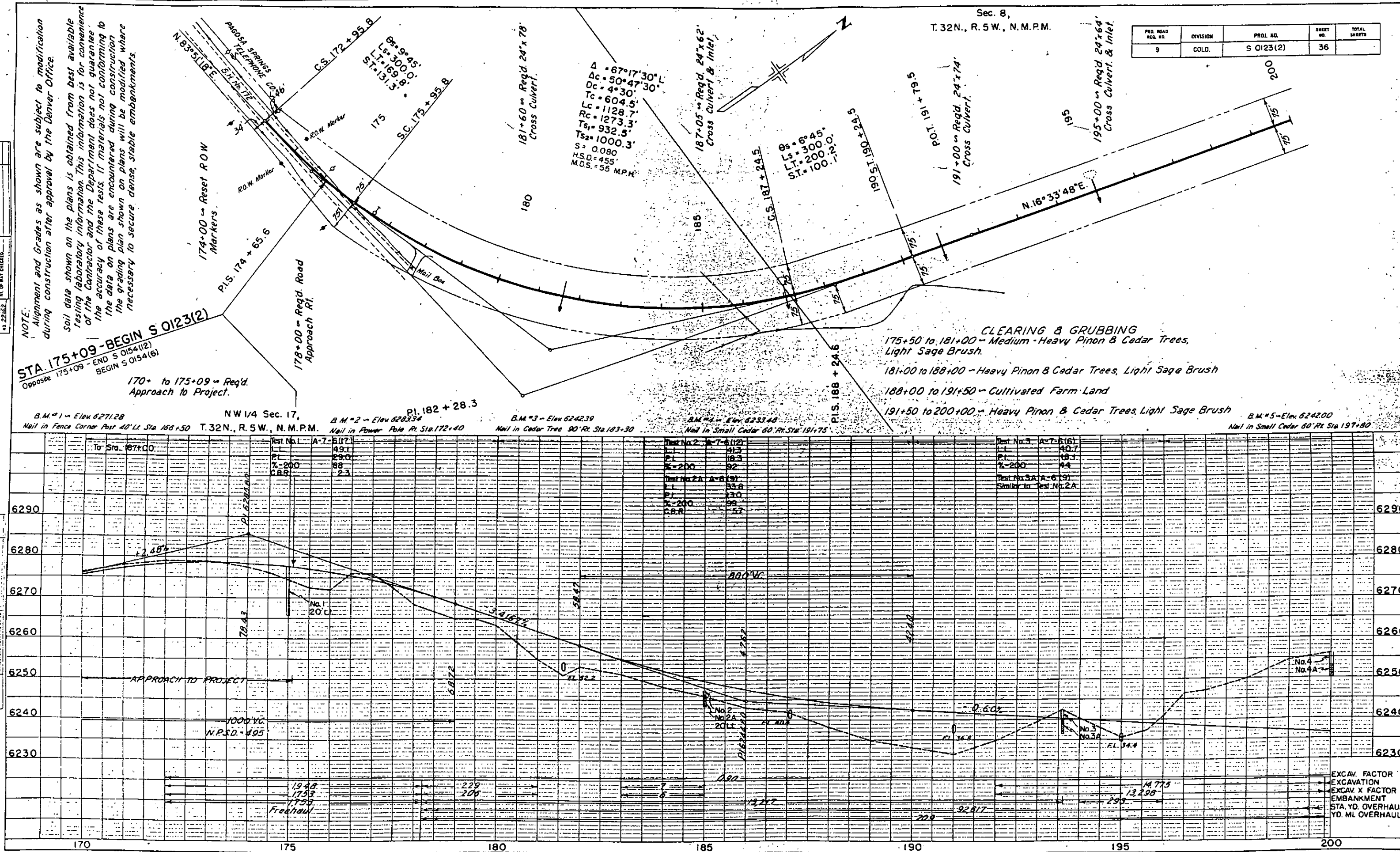
B.M. #3 - Elev 6242.39
Nail in Cedar Tree 90' Rt Sta 183+30

B.M. #4 - Elev 6233.48
Nail in Small Cedar 60' Rt Sta 191+75

B.M. #5 - Elev 6242.00
Nail in Small Cedar 60' Rt Sta 197+80

Sec. 8,
T.32N., R.5W., N.M.P.M.

FED. ROAD DIST. NO.	DIVISION	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	S 0123(2)	36	

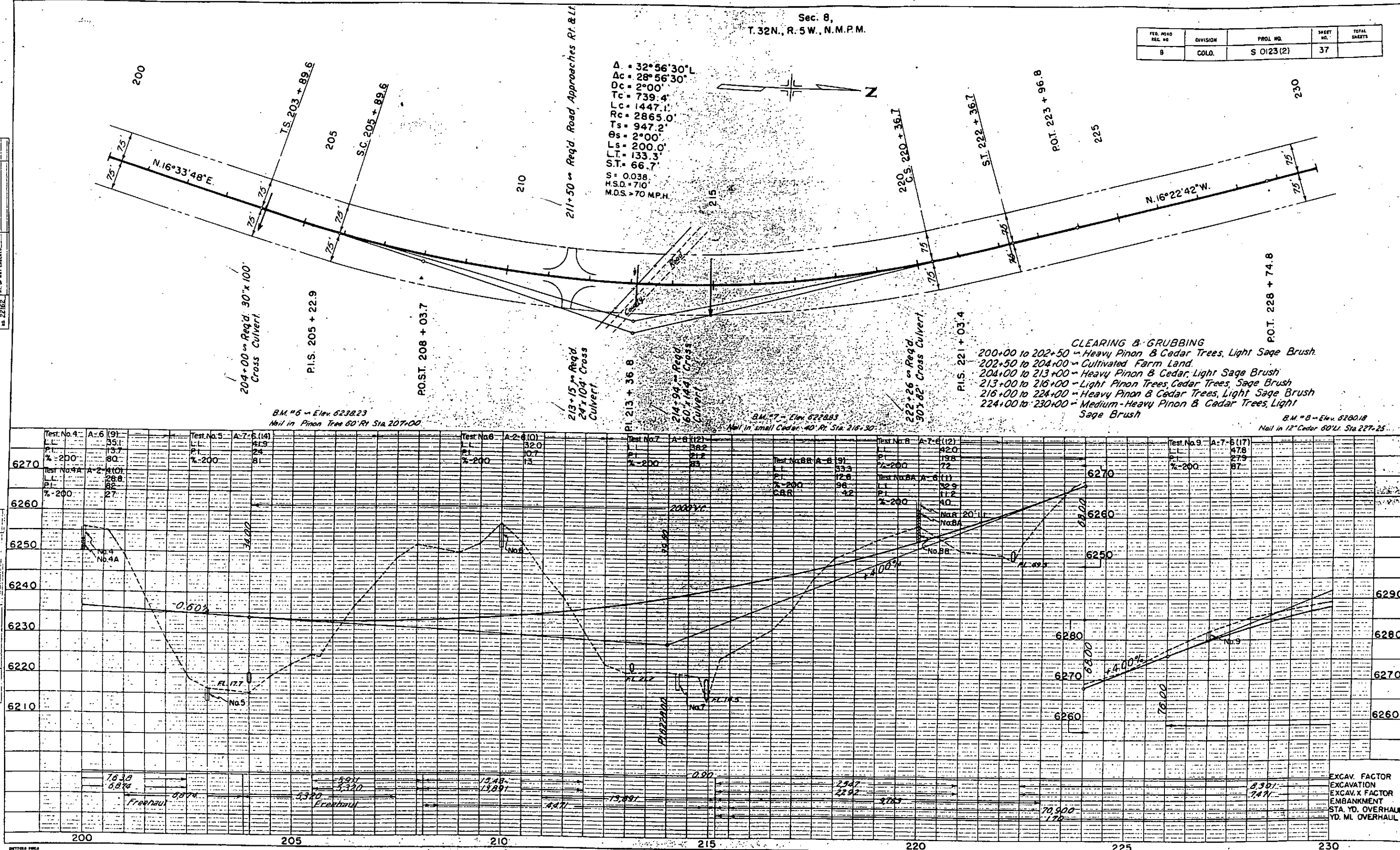


Sec. 8,
T. 32N., R. 5W., N.M.P.M.

FED. ROAD REC. NO.	DIVISION	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	S 0123 (2)	37	

PLAN	DATE	BY	CHECKED
2/16/62			
2/16/62			

PROFILE	DATE	BY	CHECKED
2/16/62			
2/16/62			



CLEARING & GRUBBING

- 200+00 to 202+50 ~ Heavy Pinon & Cedar Trees, Light Sage Brush
- 202+50 to 204+00 ~ Cultivated Farm Land
- 204+00 to 213+00 ~ Heavy Pinon & Cedar, Light Sage Brush
- 213+00 to 216+00 ~ Light Pinon Trees, Cedar Trees, Sage Brush
- 216+00 to 224+00 ~ Heavy Pinon & Cedar Trees, Light Sage Brush
- 224+00 to 230+00 ~ Medium Heavy Pinon & Cedar Trees, Light Sage Brush

EXCAV. FACTOR
EXCAV. X FACTOR
EMBANKMENT
STA. YD. OVERHAUL
YD. MI. OVERHAUL

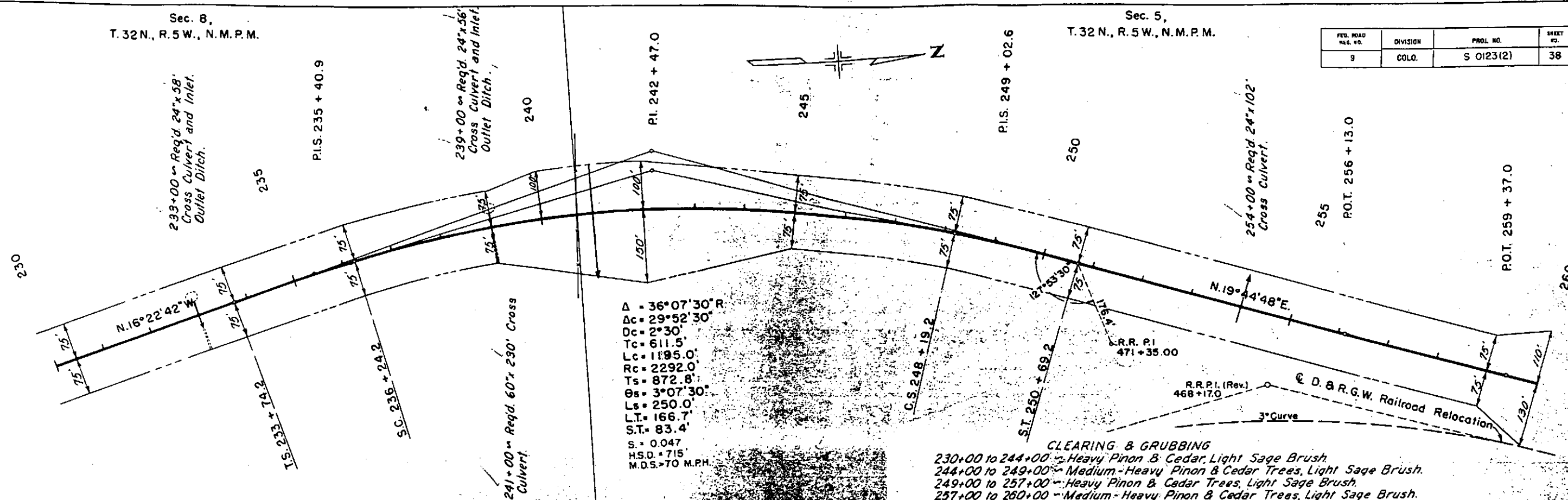
Sec. 8,
T. 32 N., R. 5 W., N. M. P. M.

Sec. 5,
T. 32 N., R. 5 W., N. M. P. M.

FED. ROAD NO. 40	DIVISION	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	S 0123(2)	38	

PLAN	DATE
DESIGNED BY CHECKED BY DATE BY	

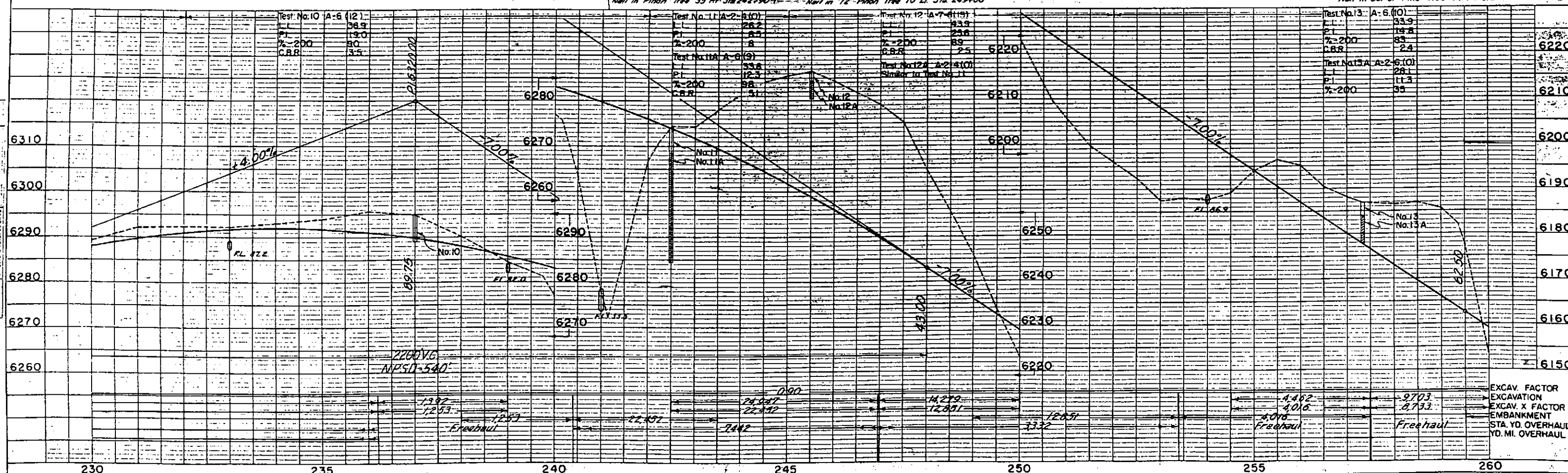
PROFILE	DATE
DESIGNED BY CHECKED BY DATE BY	



CLEARING & GRUBBING
 230+00 to 244+00 ~ Heavy Pinon & Cedar, Light Sage Brush.
 244+00 to 249+00 ~ Medium-Heavy Pinon & Cedar Trees, Light Sage Brush.
 249+00 to 257+00 ~ Heavy Pinon & Cedar Trees, Light Sage Brush.
 257+00 to 260+00 ~ Medium-Heavy Pinon & Cedar Trees, Light Sage Brush.

B.M. #9 ~ Elev 6265.30
 Nail in Pinon Tree 35' R. Sta 242+90
 B.M. #10 ~ Elev 6245.32
 Nail in 12" Pinon Tree 70' L. Sta 249+00

B.M. #11 ~ Elev 6186.75
 Nail in Cut of Pine Tree 95' R. Sta 256+50

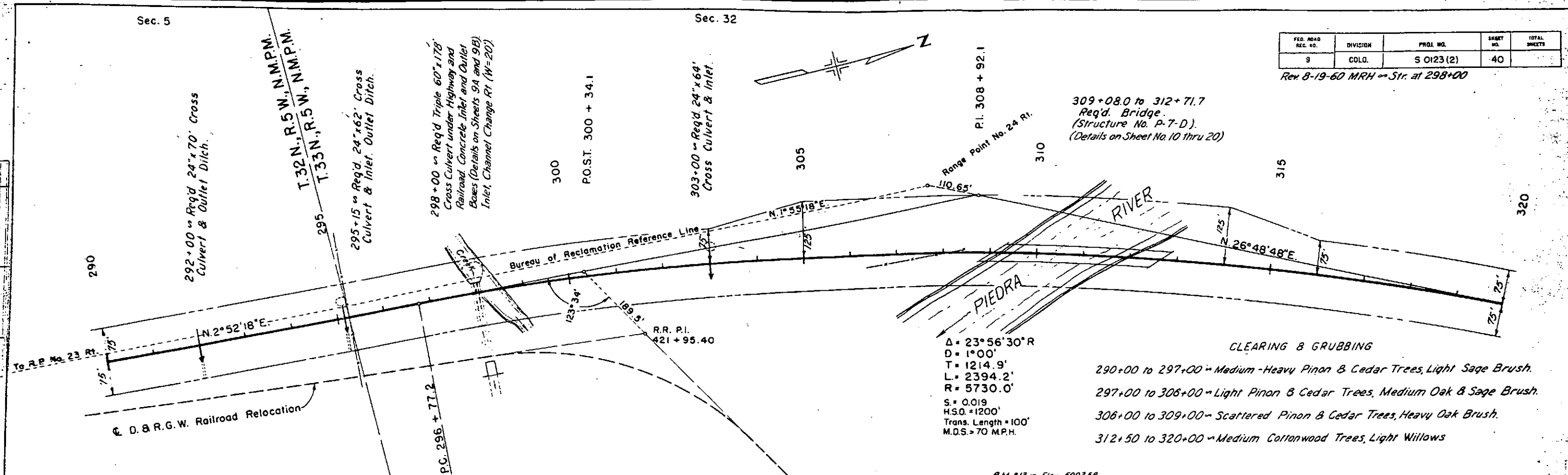


Sec. 5

Sec. 32

FED. ROAD REC. NO.	DIVISION	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	S 0123 (2)	40	

Rev. 8-19-60 MRH on Str. at 298+00

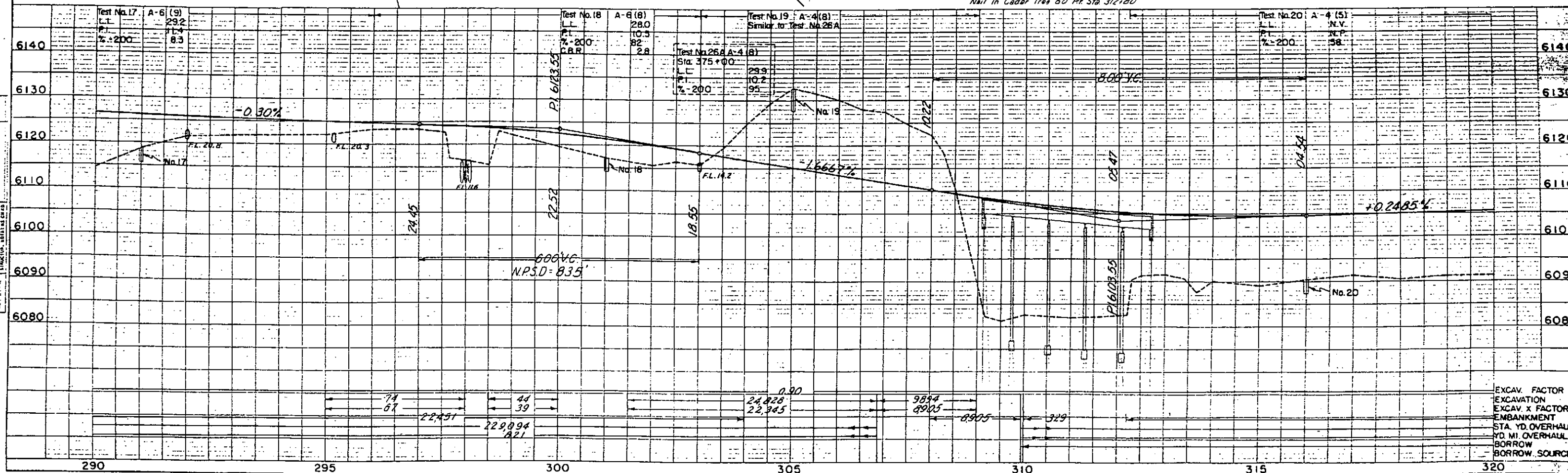


$\Delta = 23^\circ 56' 30'' R$
 $D = 1^\circ 00'$
 $T = 1214.9'$
 $L = 2394.2'$
 $R = 5730.0'$
 $S = 0.019$
 $H.S.D. = 1200'$
 $Trans. Length = 100'$
 $M.D.S. = 70 \text{ M.P.H.}$

CLEARING & GRUBBING

- 290+00 to 297+00 ~ Medium-Heavy Pinon & Cedar Trees, Light Sage Brush.
- 297+00 to 306+00 ~ Light Pinon & Cedar Trees, Medium Oak & Sage Brush.
- 306+00 to 309+00 ~ Scattered Pinon & Cedar Trees, Heavy Oak Brush.
- 312+50 to 320+00 ~ Medium Cottonwood Trees, Light Willows

B.M. #13 ~ Elev. 6092.58
 Nail in Cedar Tree 60' Pt. Sta 312+80

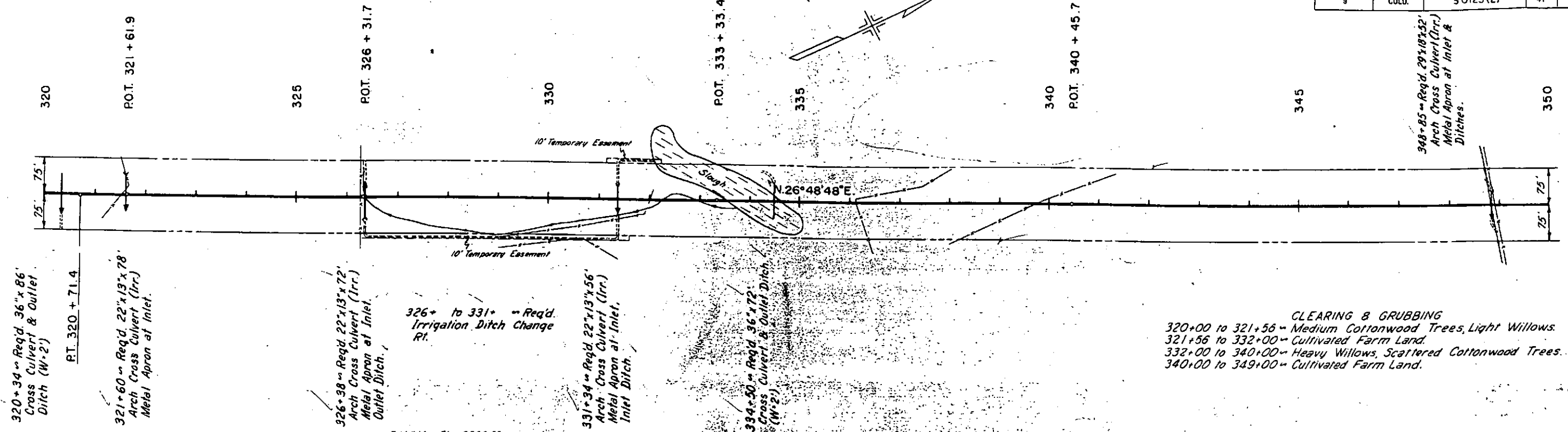


EXCAV. FACTOR
 EXCAV. X FACTOR
 EMBANKMENT
 STA. YD. OVERHAUL
 YD. MI. OVERHAUL
 BORROW
 BORROW SOURCE

Sec. 32,
T.33N., R.5W., N.M.P.M.

FED. ROAD REG. NO.	DIVISION	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	50123 (2)	41	

PLAN	NOTES
DATE: 11/16/52 BY: J. H. BAKER CHECKED: J. H. BAKER DATE: 11/16/52	1. SEE PLAN FOR LOCATION OF CULVERTS 2. SEE PLAN FOR LOCATION OF DITCHES

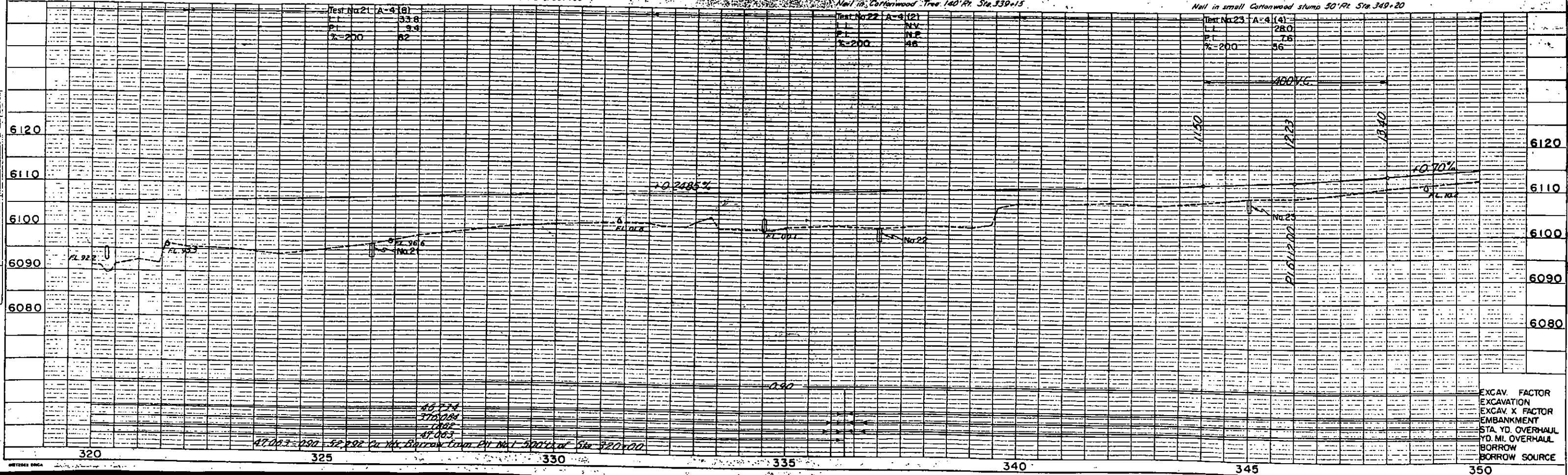


CLEARING & GRUBBING
320+00 to 321+56 - Medium Cottonwood Trees, Light Willows.
321+56 to 332+00 - Cultivated Farm Land.
332+00 to 340+00 - Heavy Willows, Scattered Cottonwood Trees.
340+00 to 349+00 - Cultivated Farm Land.

B.M. #14 - Elev. 6098.60
Nail in Cottonwood Tree 120' Li. Sta. 326+25

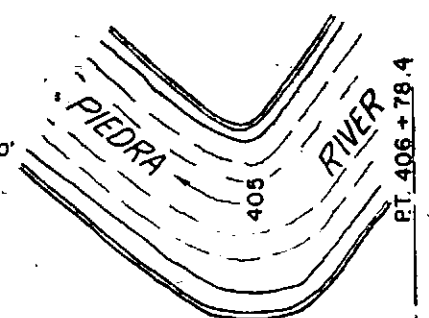
B.M. #15 - Elev. 6110.05
Nail in Cottonwood Tree 140' Li. Sta. 339+15

B.M. #16 - Elev. 6113.36
Nail in small Cottonwood stump 50' Li. Sta. 349+20



PLAN SHEET NO.	DIVISION	PROJECT NO.	SHEET NO.	TOTAL SHEETS
2	COLA	S 0123(2)	44	

$\Delta = 17^{\circ}27' L$
 $D = 1^{\circ}30'$
 $T = 586.2'$
 $L = 1163.3'$
 $R = 3820.0'$
 $S = 0.028$
 $H.S.D. = 1/435$
 $Trans. Length = 150'$
 $M.O.S. = 70 \text{ M.P.H.}$

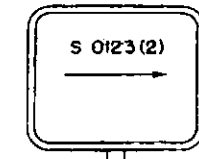


P.O.T. 408 + 34.8

P.O.T. 410 + 70.0

P.O.T. 415 + 00.0

415+00 to 416+00 - Req'd. Approach to Project.



STA. 415+00-END S 0123(2)

Sec. 21

CLEARING & GRUBBING
 395+00 to 397+00 - Medium Pinon & Cedar Trees.
 397+00 to 401+00 - Light Oak Brush.
 401+00 to 406+00 - Heavy Oak Brush.
 406+00 to 409+00 - Scattered Cottonwood Trees, Heavy Willows.
 409+00 to 415+00 - Medium Oak Brush, & Light Willows.

398+60 - Req'd. 24'x60' Cross Culvert & Inlet, Outlet Ditch.
 400+ - Req'd. Road Approaches Rt. & Lt. (Exact location to be determined by the Engineer at time of construction).

PI. 401 + 01.3

402+72 - Req'd. Fill Old Well Casing Rt.
 Old Well Casing 6' dia.

Sec. 28

403+62 - Req'd. Double 84'x96' Cross Culvert & Inlet

406+55 - Req'd. 24'x88' Cross Culvert & Inlet.

406+ - Req'd. Road Approach Rt. (Exact location to be determined by the Engineer at time of construction).

408+35 - Req'd. 24'x74' Cross Culvert.

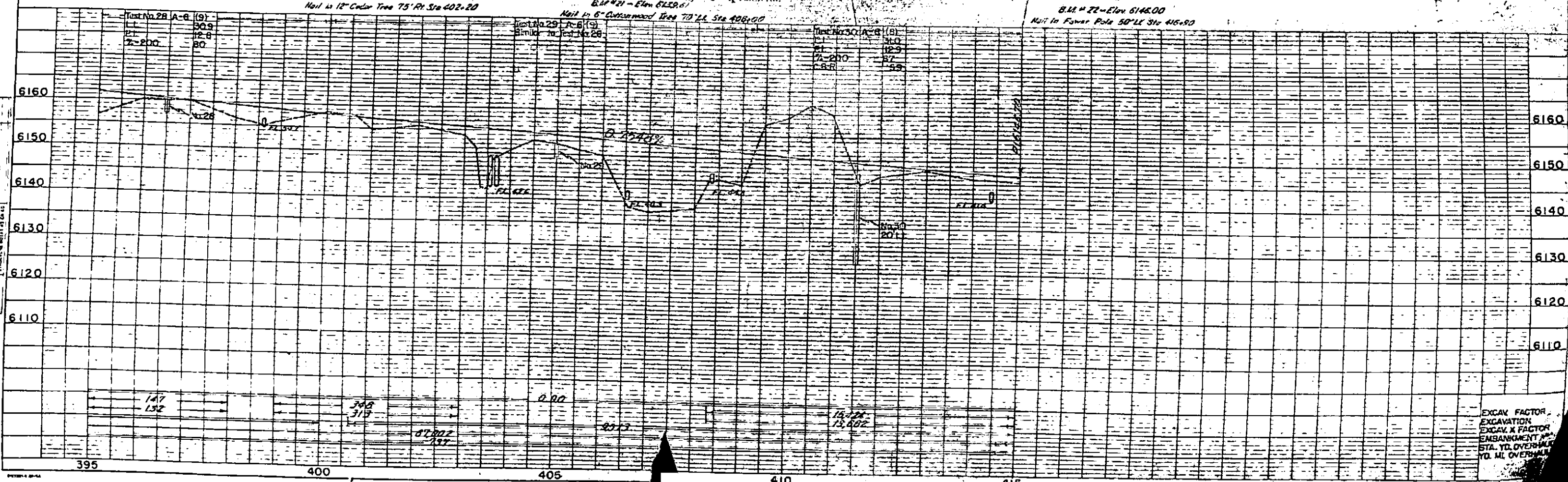
414+40 - Req'd. 24'x60' Cross Culvert & Inlet.

415+00 - Req'd. Project Marker Rt. (State Forces)

B.M. #20 - Elev. 6159.78
 Nail in 12" Cedar Tree 75' Rt. Sta 402+20

T. 33 N., R. 5 W., N.M.P.M.
 B.M. #21 - Elev. 6159.61
 Nail in 6" Cottonwood Tree 70' Lt. Sta 408+00

B.M. #22 - Elev. 6145.00
 Nail in Power Pole 50' Lt. Sta 415+00



EXCAV. FACTOR
 EXCAV. X FACTOR
 EMBANKMENT
 STA. TO OVERPASS
 YD. ML. OVERPASS