

U.S. DEPARTMENT OF TRANSPORTATION
BUREAU OF PUBLIC ROADS

PLANS FOR PROPOSED
COLORADO FOREST HIGHWAY PROJECT 15-1(I)
MCCLURE PASS CR 40-0133-09
LENGTH 4.003 MILES
CLASS 2
GUNNISON NATIONAL FOREST
GUNNISON COUNTY
RIGHT OF WAY LENGTH = 0.833 MILES

S.H. 133

REGION 9 STATE COLORADO
PROJECT 15-1(I), McClure Pass
SHEET 1 OF SHEETS

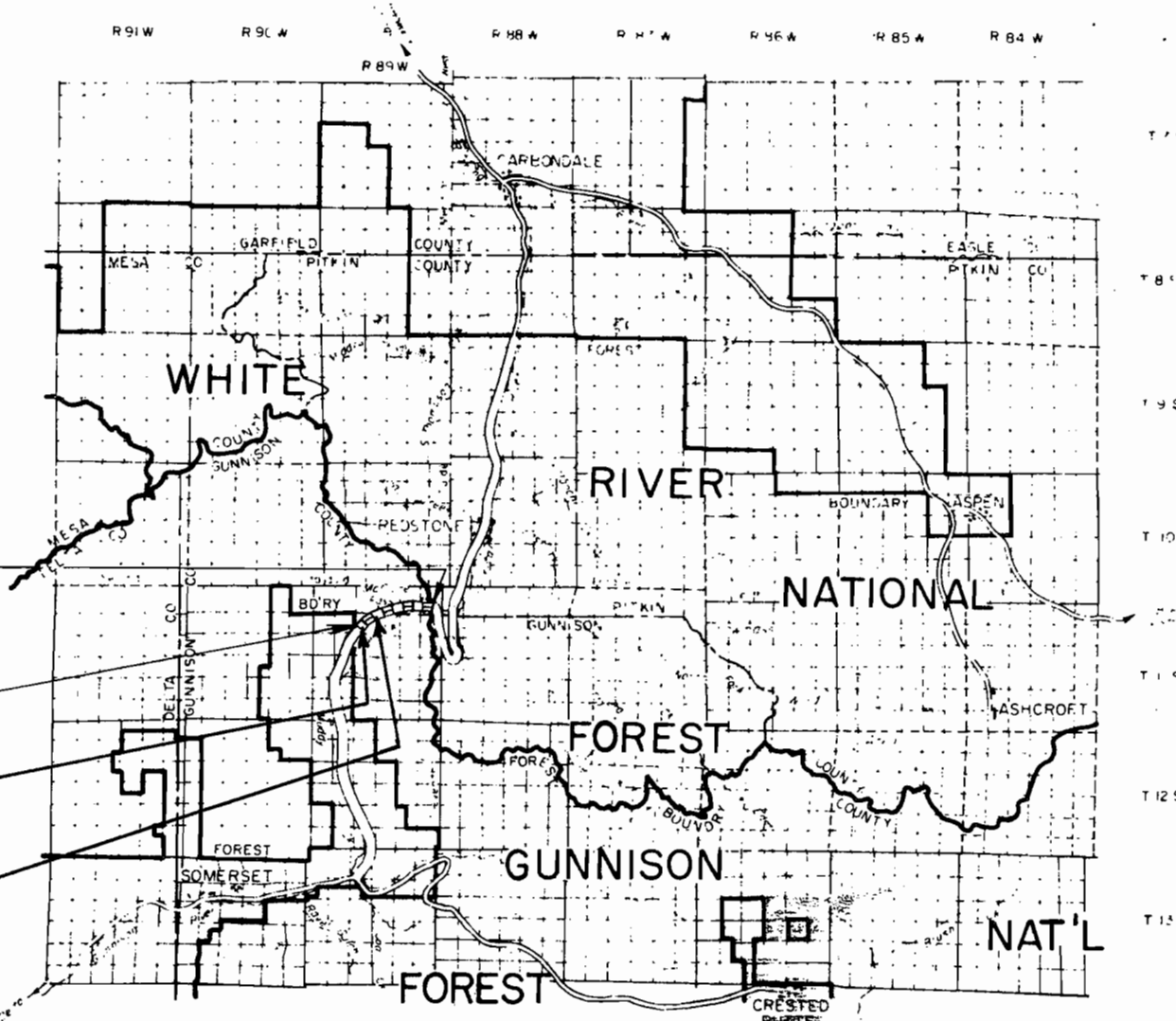
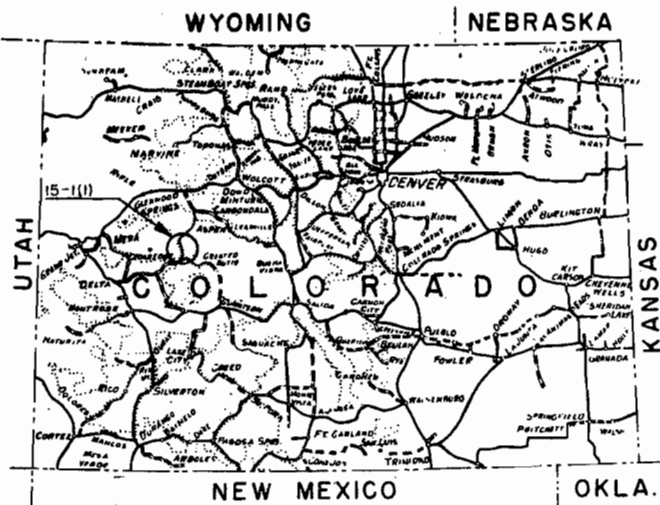
CR-40-0133-09

INDEX TO SHEETS

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1	Title Sheet	
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4-11	Plan and Profile	
12-13	Vicinity Maps	

RIGHT OF WAY
McCLURE PASS - WEST

REVISIONS	

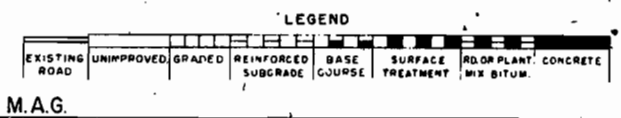


End Proj. 15-1(I)
Sta. 1130+20

Begin Proj. 15-1(I)
Sta. 917+07

BEGIN R.O.W. CR-40-0133-09
STA. 928+31.87
= END FHP 15-1(2)
" C 40-0133-10

END R.O.W. CR-40-0133-09
STA. 972+31.78



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BUREAU OF PUBLIC ROADS
REGION NO. 9 DENVER, COLORADO

APPROVED: _____ DATE _____ 19__

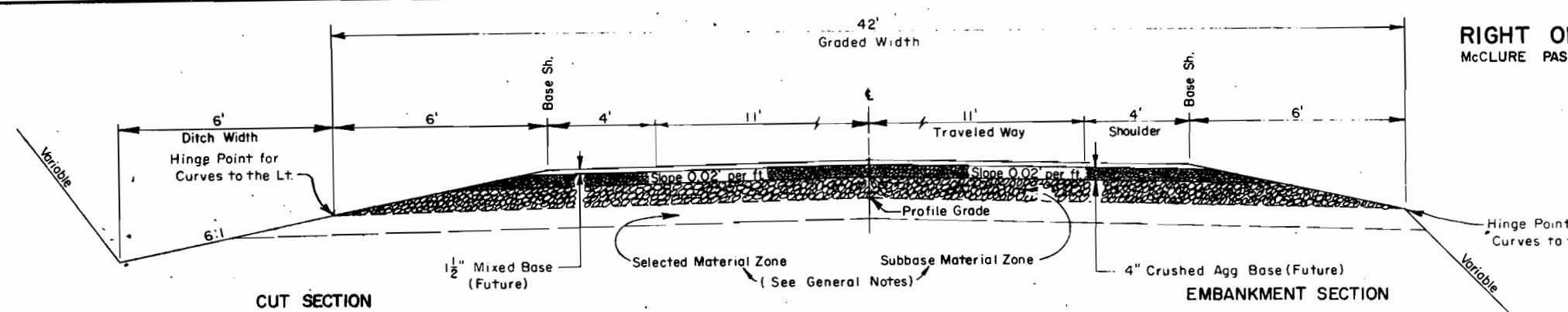
REGIONAL ENGINEER

RIGHT OF WAY
McCLURE PASS - WEST

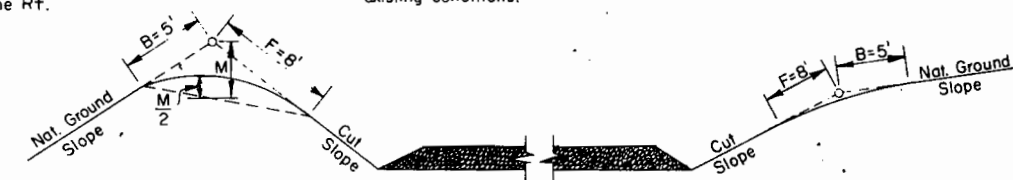
HEIGHT	EMBANKMENT SLOPE
0' to 3'	6:1
3' to 6'	4:1
6' to 12'	2:1
12' and up	2:1

HEIGHT	CUT SLOPE
0' to 5'	3:1
5' to 10'	2:1
10' and up	1 1/2:1

The above tables are to be used as a guide in the design and construction of the project. The designer or field engineer may vary from these to fit existing conditions.



TYPICAL SECTION ON TANGENTS

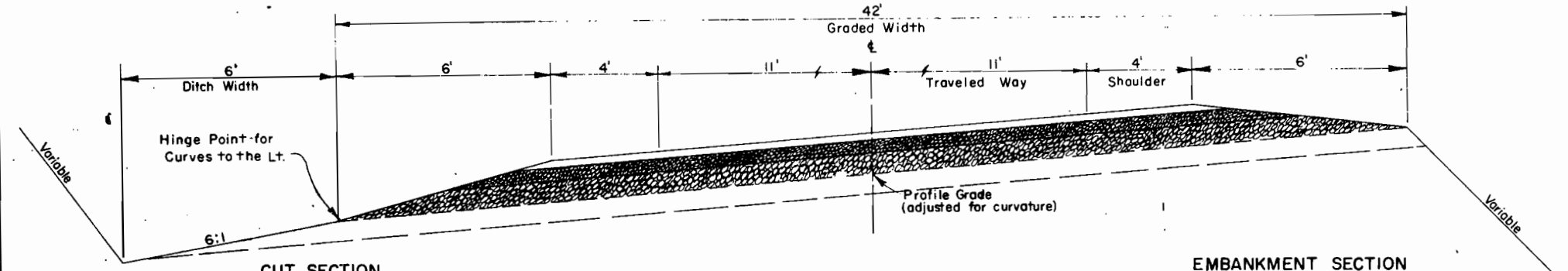


CUT SLOPE ROUNDING

When the cut slope is less than 8', reduce B & F distance to the actual slope distance.

Slope Rounding shall be considered as a subsidiary part of the work required in dressing the cut slopes and no allowance will be made for materials moved.

Rounding, Warping, and Finishing slopes shall be as provided in Standard Specifications and/or Special Provisions.



TYPICAL SECTION FOR CURVES LT.
(MAXIMUM SUPERELEVATION)

STABILIZING MATERIALS

STATION TO STATION	Subbase Material Zone		Selected Material Zone	
	Item	Depth	Item	Depth
917+07 925+00	104(2)	6"	104(2)	12"
925+00 980+00	104(2)	6"	-	-
980+00 1020+00	104(2)	6"	104(2)	4"
1020+00 1034+00	104(2)	6"	104(2)	9"
1034+00 1084+00	104(2)	6"	-	-
1084+00 1130+50	104(2)	6"	104(2)	2"

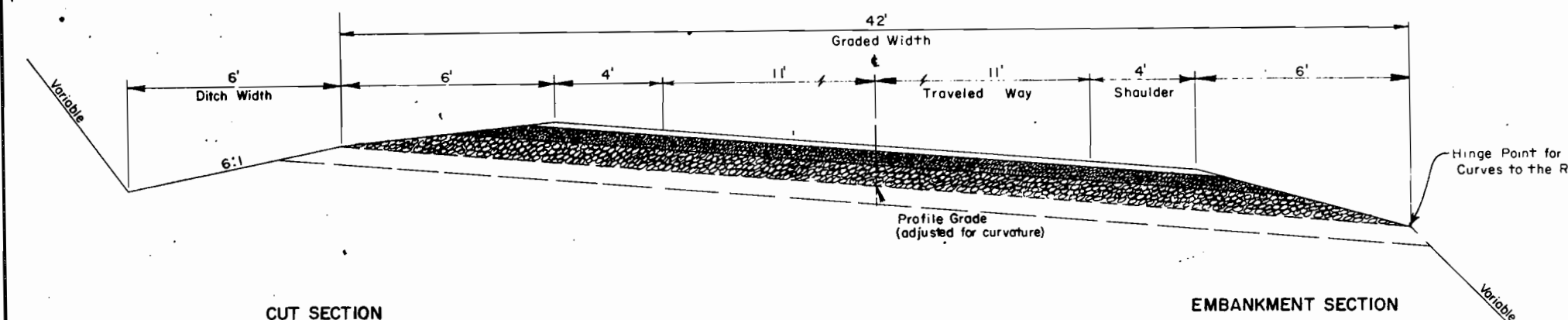
GENERAL NOTES

The Typical Section and the table above show a "Selected Material Zone" and a "Subbase Material Zone". These terms are for defining locations and depths of materials only, and are not to be considered as pay items having similar names. The "Selected Material Zone" lies below the profile grade (adjusted for curvature where appropriate). The "Subbase Material Zone" lies above the profile grade and just below the base course zone.

Where the plans show special material to be placed in the "Selected Material Zone", the roadway excavations and embankments shall be constructed to the grade that will allow for the required thickness. The thicknesses of materials shown in the above table are based on laboratory analysis of samples taken at random along the proposed construction. During construction, the engineer will adjust the thicknesses as necessary to insure adequate structural stability, including the placing of Section 104 materials in the "Selected Material Zone", and the placing of Section 102 materials in the "Subbase Material Zone." Section 102 materials will not be placed on top of Section 104 materials.

On grades of 3% or less, where wet or unstable conditions exist, the engineer may increase the ditch width 3 feet or more.

Any subsurface data represented on these plans is limited to the specific locations shown and those locations alone.

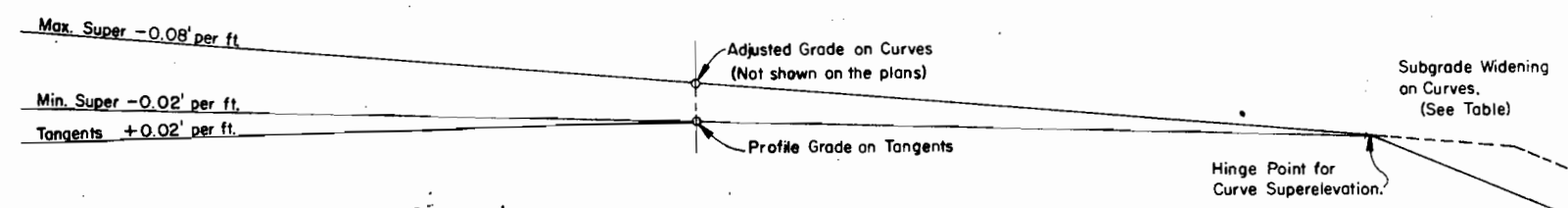


TYPICAL SECTION FOR CURVES RT.
(MAXIMUM SUPERELEVATION)

CURVE WIDENING*

Degree of Curve	Traveled Way Width
20'	22' 24'
5°-10°	2' - -
11°-21°	3' 2' -
22° & Up	4' 3' 2'

* Widen Subgrade, Base and Surfacing.



METHOD OF SUPERELEVATING ON CURVES

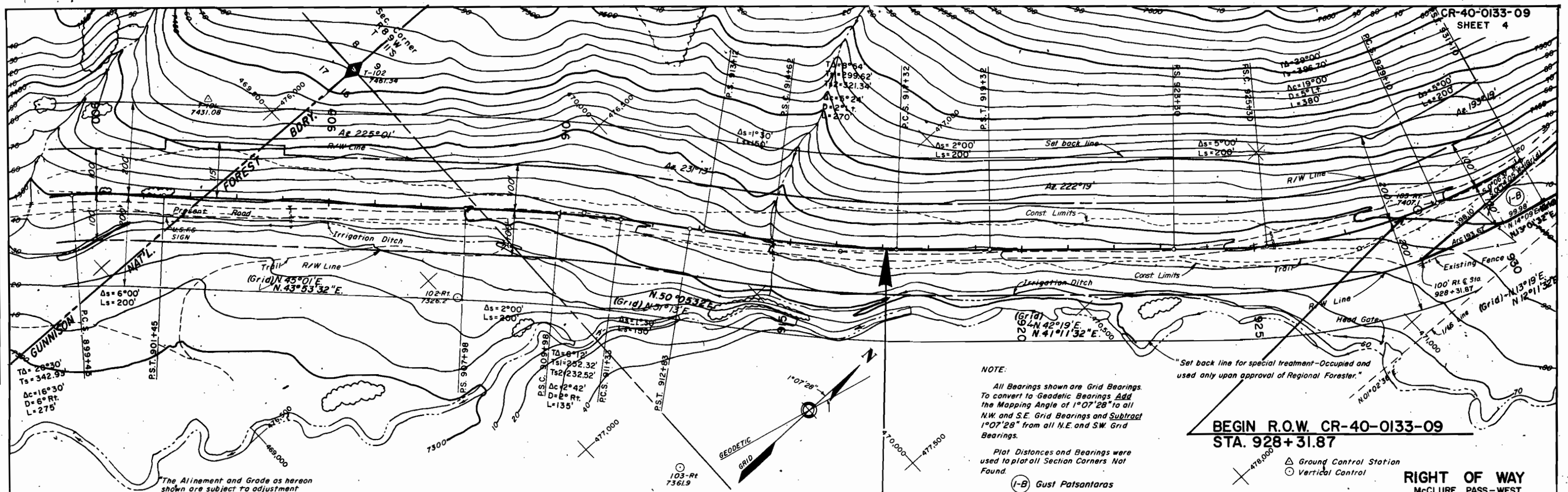
U.S. DEPARTMENT OF TRANSPORTATION
BUREAU OF PUBLIC ROADS
REGION NO. 9 DENVER, COLORADO

TYPICAL CROSS SECTIONS
NATIONAL FOREST HIGHWAYS

ROUTE: <u>McClure Pass</u>	ROADBED WIDTHS
PROJECT: <u>15-1(1), Grading</u>	GRADED: <u>42'</u> SH. to SH.
NATIONAL FOREST: <u>Gunnison</u>	BASE: _____ SH. to SH.
COUNTY: <u>Gunnison</u>	SURFACE: _____ SH. to SH.
STATE: <u>Colorado</u>	

Revised: 7/1963, 5/1964

DRAWN J.K.C. 4-1963



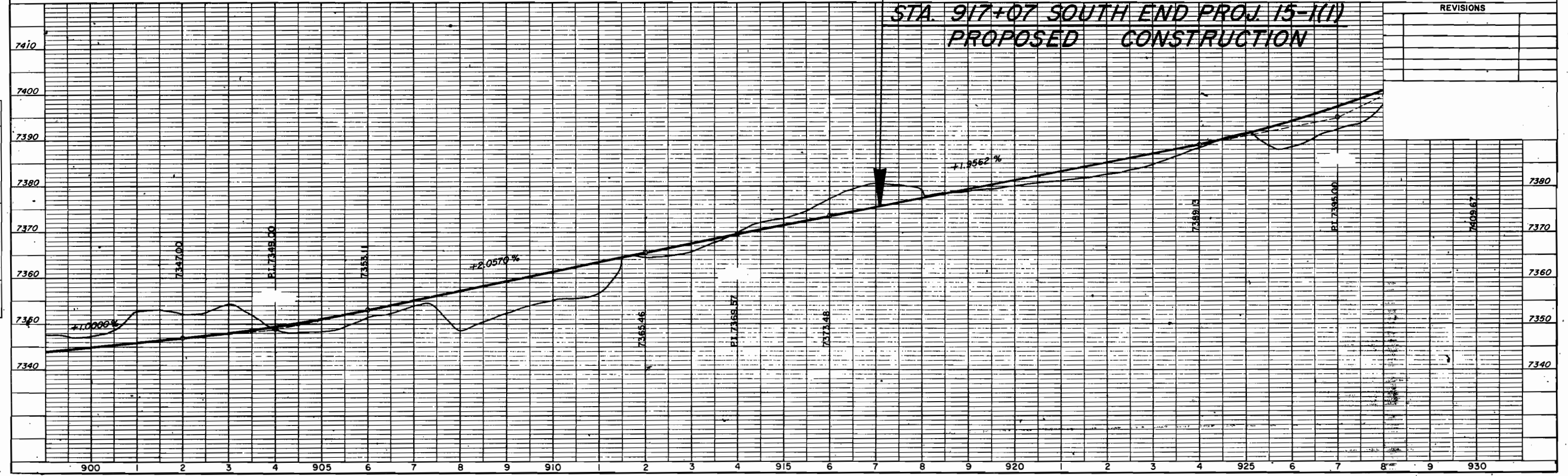
NOTE:
All Bearings shown are Grid Bearings. To convert to Geodetic Bearings Add the Mapping Angle of 1°07'28" to all N.W. and S.E. Grid Bearings and Subtract 1°07'28" from all N.E. and S.W. Grid Bearings.
Plot Distances and Bearings were used to plot all Section Corners Not Found.
(-B) Gust Patsantaras

"Set back line for special treatment—Occupied and used only upon approval of Regional Forester."

**BEGIN R.O.W. CR-40-0133-09
STA. 928+31.87**

**RIGHT OF WAY
McCLURE PASS—WEST**

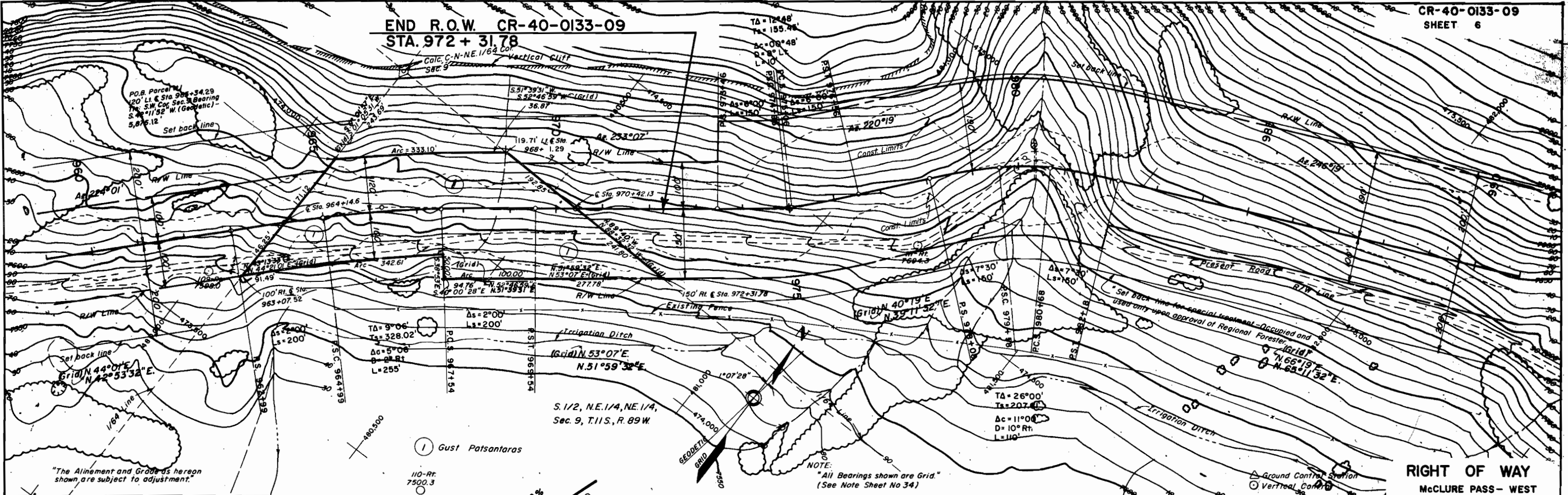
**STA. 917+07 SOUTH END PROJ. 15-1(I)
PROPOSED CONSTRUCTION**



REVISIONS

END R.O.W. CR-40-0133-09
STA. 972 + 31.78

CR-40-0133-09
SHEET 6

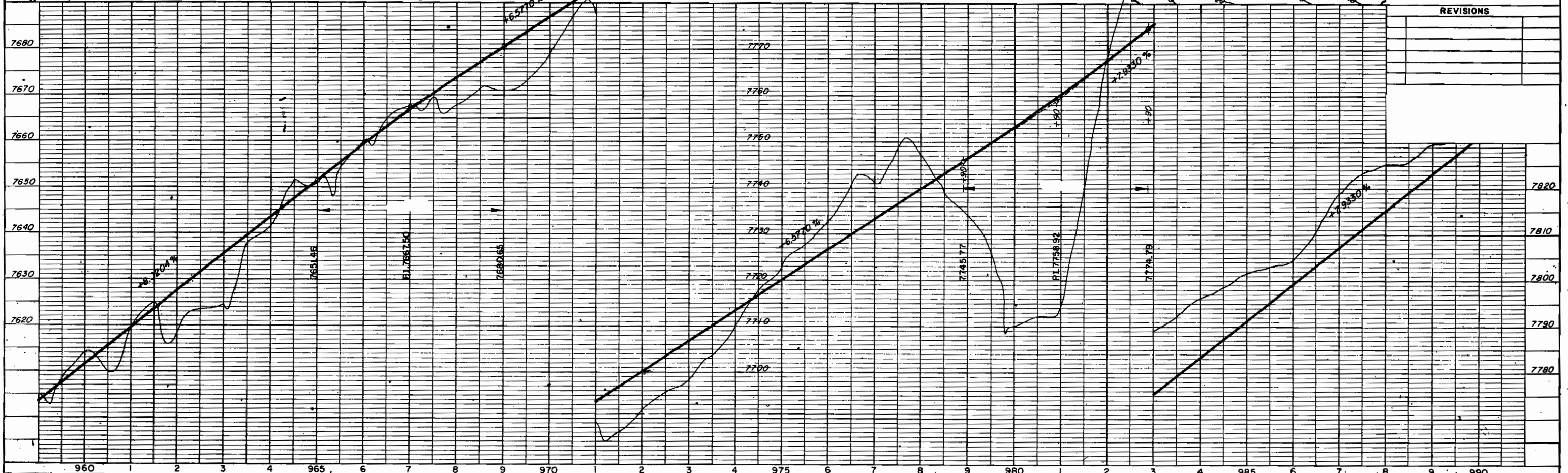


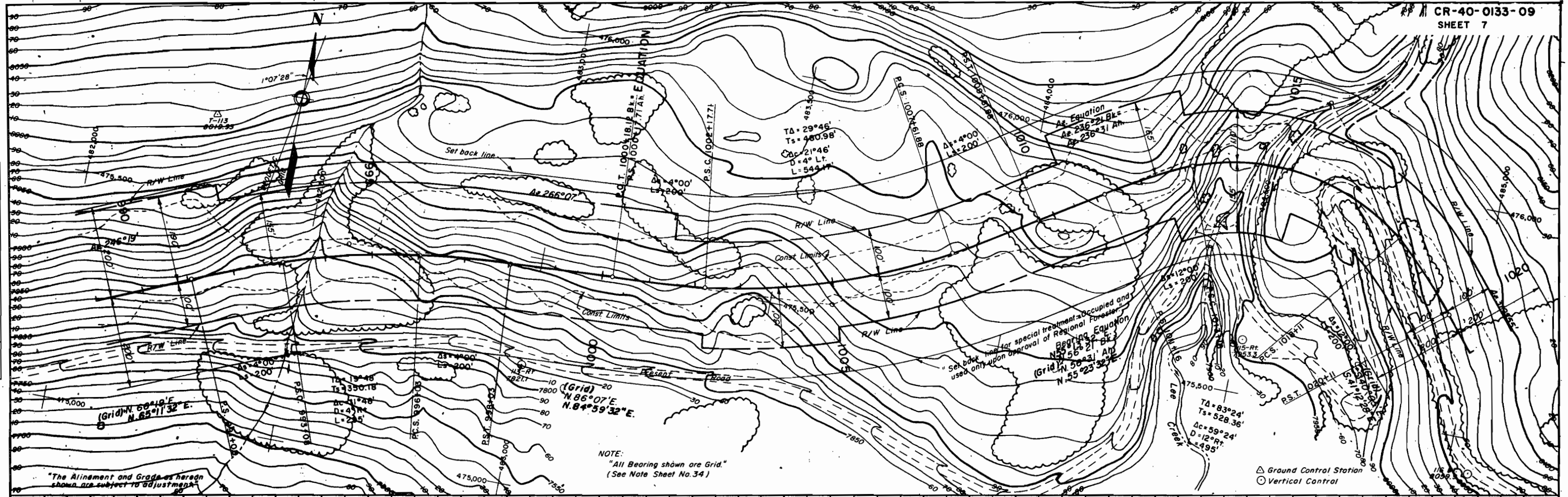
"The Alignment and Grade as hereon shown are subject to adjustment."

NOTE:
"All Bearings shown are Grid."
(See Note Sheet No 34)

RIGHT OF WAY
MCLURE PASS - WEST

REVISIONS

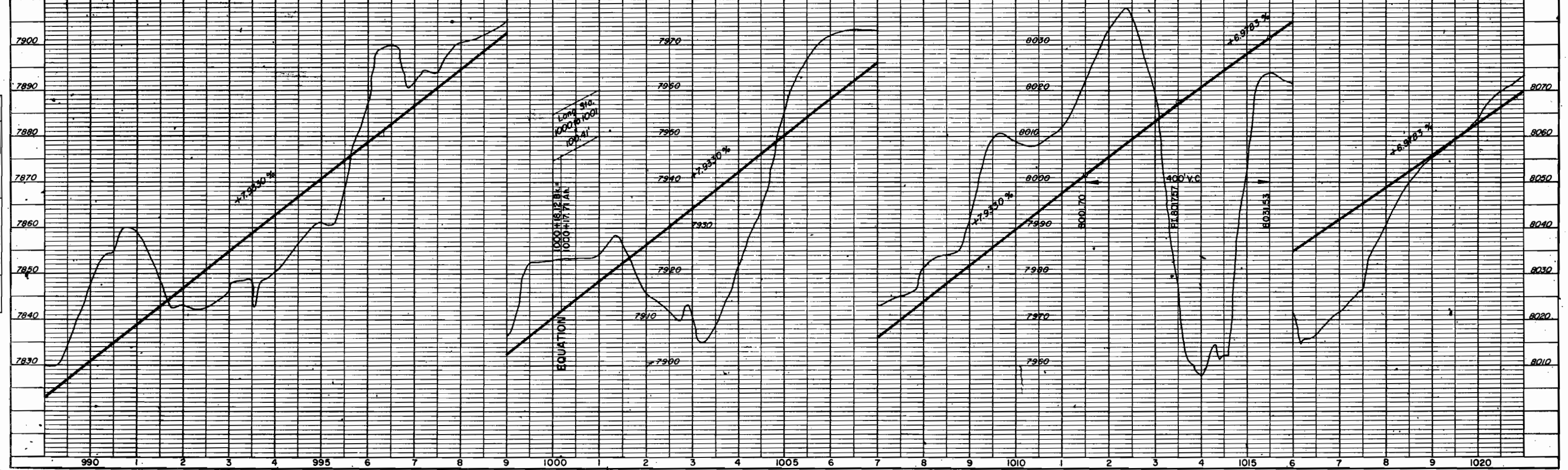


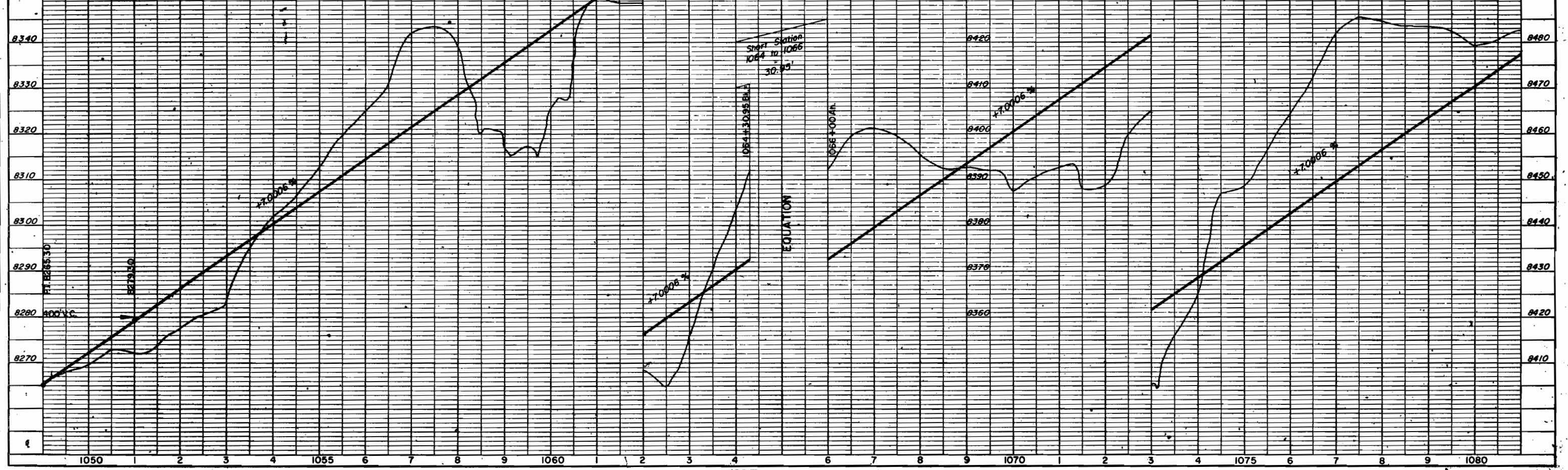
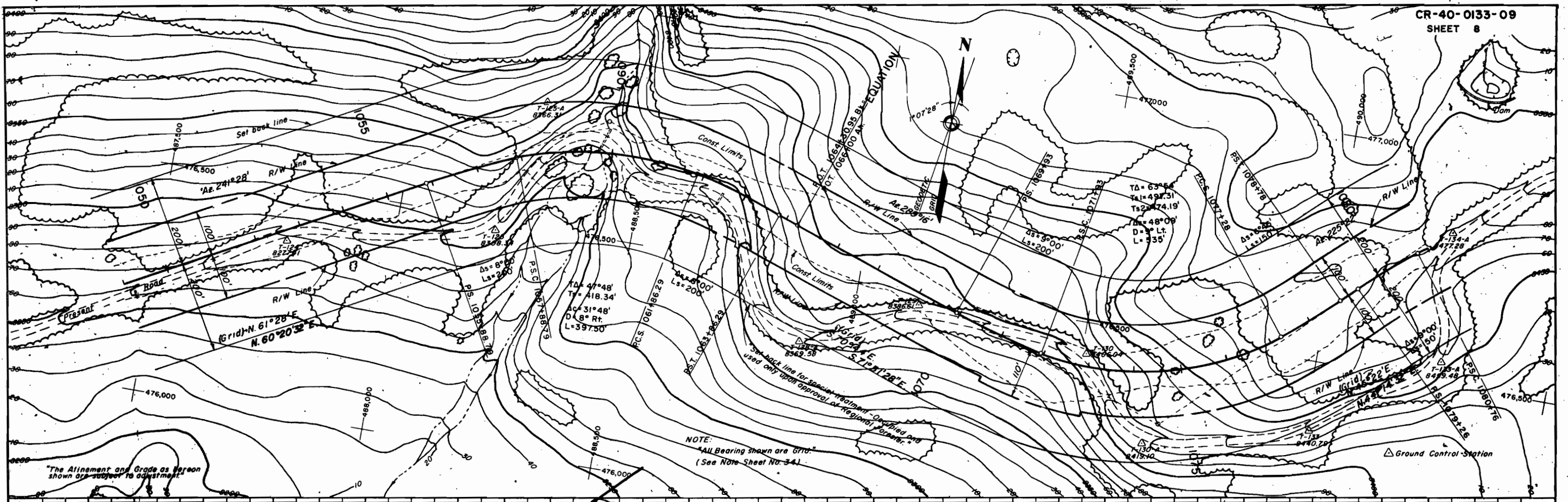


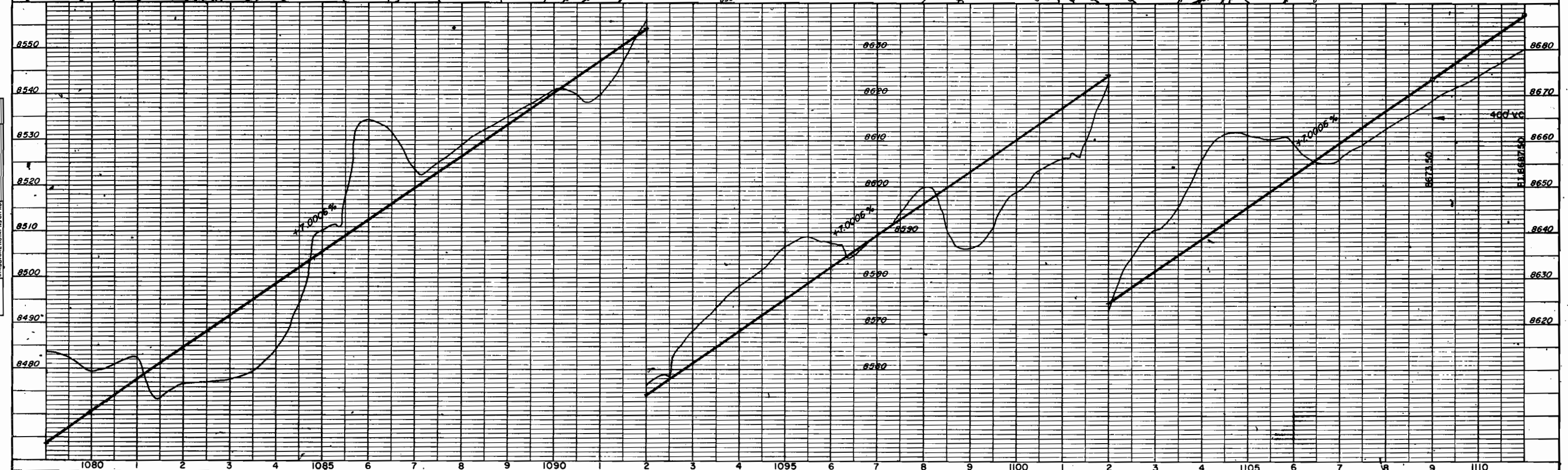
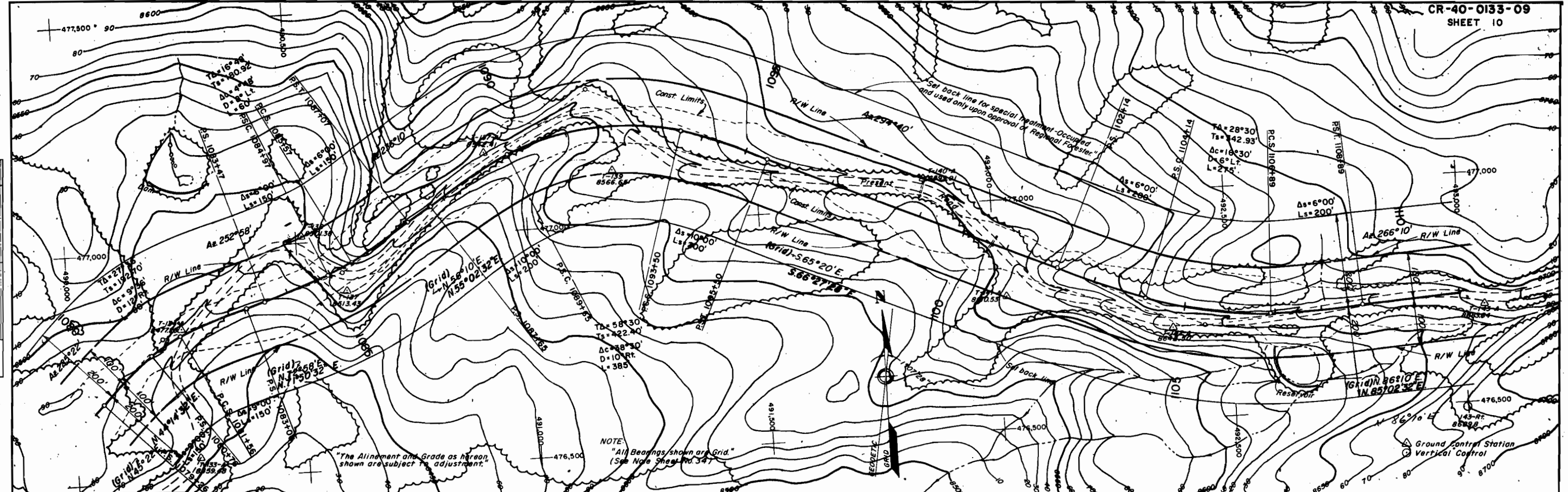
NOTE:
"All Bearing shown are Grid."
(See Note Sheet No. 34)

"The Alignment and Grade as herein shown are subject to adjustment."

△ Ground Control Station
○ Vertical Control



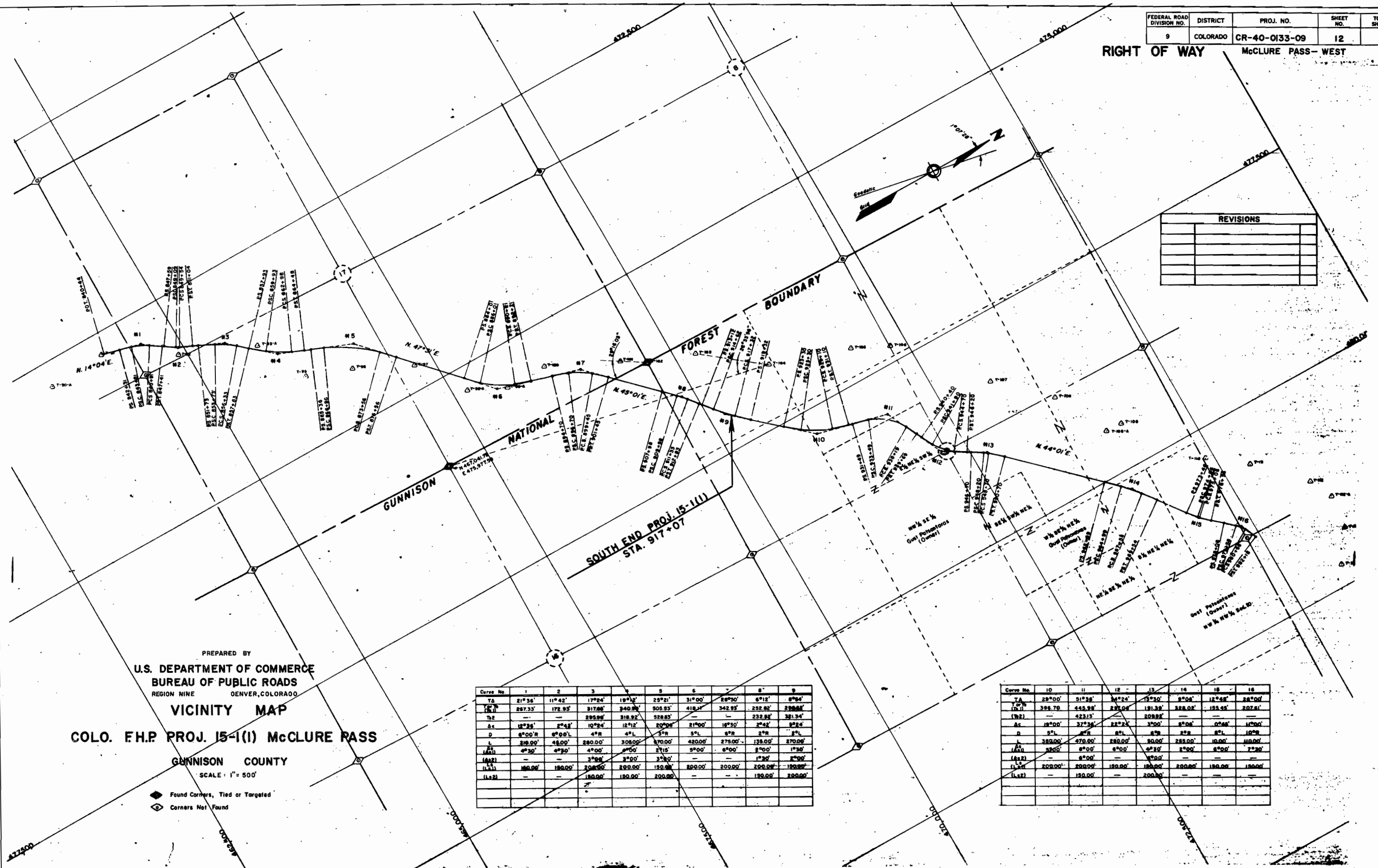




FEDERAL ROAD DIVISION NO.	DISTRICT	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLORADO	CR-40-0133-09	12	

RIGHT OF WAY
McCLURE PASS - WEST

REVISIONS	



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U.S. DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC ROADS
REGION NINE DENVER, COLORADO

VICINITY MAP

COLO. F.H.P. PROJ. 15-1(I) McCLURE PASS

GUNNYSON COUNTY

SCALE: 1" = 500'

- ◆ Found Corners, Tied or Targeted
- Corners Not Found

Curve No	1	2	3	4	5	6	7	8	9
TA	21°36'	11°42'	17°24'	19°32'	25°21'	31°00'	28°30'	6°12'	6°04'
TB	267.33'	172.95'	317.88'	340.00'	505.93'	418.21'	342.93'	252.82'	290.88'
Tc	—	—	295.99'	318.92'	528.85'	—	—	232.85'	321.34'
Ac	12°38'	2°42'	10°24'	12°12'	20°28'	21°00'	18°30'	2°42'	2°24'
D	6°00'R	6°00'L	4°R	4°L	5°R	5°L	8°R	2°R	2°L
L	219.00'	48.00'	280.00'	308.00'	370.00'	420.00'	275.00'	135.00'	270.00'
(Ls1)	4°30'	4°30'	4°00'	4°00'	2°15'	5°00'	6°00'	2°00'	1°30'
(Ls2)	—	—	3°00'	3°00'	3°30'	—	—	1°30'	2°00'
(Ls3)	180.00'	180.00'	200.00'	200.00'	150.00'	200.00'	200.00'	200.00'	150.00'
(Ls4)	—	—	180.00'	180.00'	200.00'	—	—	150.00'	200.00'

Curve No	10	11	12	13	14	15	16
TA	28°00'	31°38'	34°24'	35°30'	3°08'	12°48'	28°00'
TB	396.79'	443.98'	287.04'	191.39'	388.02'	153.45'	202.61'
Tc	—	423.13'	208.92'	—	—	—	—
Ac	18°00'	37°36'	22°24'	3°00'	2°08'	0°26'	1°00'
D	5°L	8°R	8°L	8°R	2°R	8°L	10°R
L	389.00'	479.00'	280.00'	80.00'	285.00'	10.00'	110.00'
(Ls1)	350.00'	6°00'	6°00'	4°30'	2°00'	6°00'	7°30'
(Ls2)	—	6°00'	—	6°00'	—	—	—
(Ls3)	200.00'	200.00'	150.00'	180.00'	200.00'	150.00'	150.00'
(Ls4)	—	150.00'	—	200.00'	—	—	—

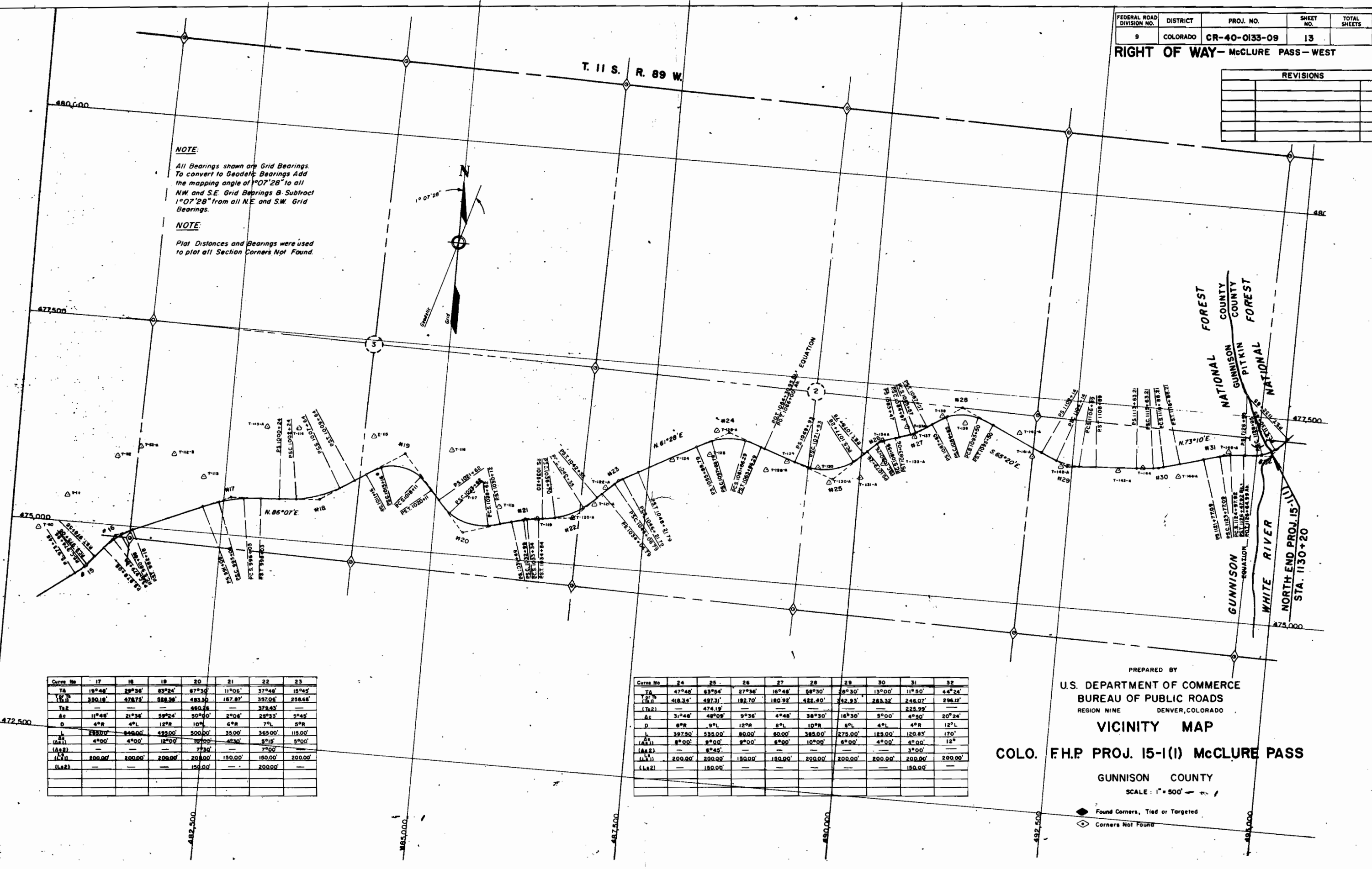
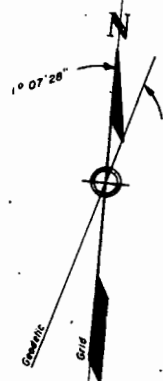
FEDERAL ROAD DIVISION NO.	DISTRICT	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLORADO	CR-40-0133-09	13	

RIGHT OF WAY - McCLURE PASS - WEST

REVISIONS	

NOTE:
All Bearings shown are Grid Bearings. To convert to Geodetic Bearings Add the mapping angle of 1°07'28" to all NW and SE Grid Bearings & Subtract 1°07'28" from all NE and SW Grid Bearings.

NOTE:
Plot Distances and Bearings were used to plot all Section Corners Not Found.



Curve No	17	18	19	20	21	22	23
TA	19°48'	29°36'	83°24'	67°30'	11°06'	37°48'	15°45'
LC	350.18'	478.75'	588.38'	483.30'	187.87'	357.06'	256.66'
LC2	—	—	—	480.00'	—	378.43'	—
AS	11°48'	21°36'	59°24'	50°00'	2°06'	28°33'	3°45'
D	4°R	4°L	12°R	10°L	6°R	7°L	8°R
L	288.00'	440.00'	493.00'	500.00'	35.00'	365.00'	115.00'
AS1	4°00'	4°00'	12°00'	10°00'	6°30'	8°15'	8°00'
AS2	—	—	—	7°30'	—	7°00'	—
LC1	200.00'	200.00'	200.00'	200.00'	150.00'	150.00'	200.00'
LC2	—	—	—	150.00'	—	200.00'	—

Curve No	24	25	26	27	28	29	30	31	32
TA	47°48'	63°36'	27°36'	16°48'	58°30'	48°30'	13°00'	11°50'	44°24'
LC	418.34'	497.31'	182.70'	180.92'	422.40'	342.93'	263.32'	246.07'	296.12'
LC2	—	—	474.19'	—	—	—	—	225.29'	—
AS	31°48'	48°09'	9°36'	4°48'	38°30'	16°30'	5°00'	4°40'	20°24'
D	8°R	9°L	12°R	8°L	10°R	6°L	4°L	4°R	12°L
L	397.50'	535.00'	80.00'	80.00'	385.00'	275.00'	123.00'	120.83'	170'
AS1	8°00'	9°00'	9°00'	8°00'	10°00'	8°00'	4°00'	4°00'	12°
AS2	—	8°45'	—	—	—	—	—	3°00'	—
LC1	200.00'	200.00'	150.00'	150.00'	200.00'	200.00'	200.00'	200.00'	200.00'
LC2	—	150.00'	—	—	—	—	—	150.00'	—

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U.S. DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC ROADS
REGION NINE DENVER, COLORADO
VICINITY MAP
COLO. F.H.P. PROJ. 15-1(I) McCLURE PASS

GUNNISON COUNTY
SCALE: 1" = 500'

