

FED. ROAD DIST. NO.	STATE	A.W. PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	5003	1	

COLORADO STATE HIGHWAY DEPARTMENT

PLAN AND PROFILE OF PROPOSED A.W. PROJECT NO. 5003 STATE HIGHWAY NO. 4 LAKE & CHAFFEE COUNTIES

INDEX OF SHEETS

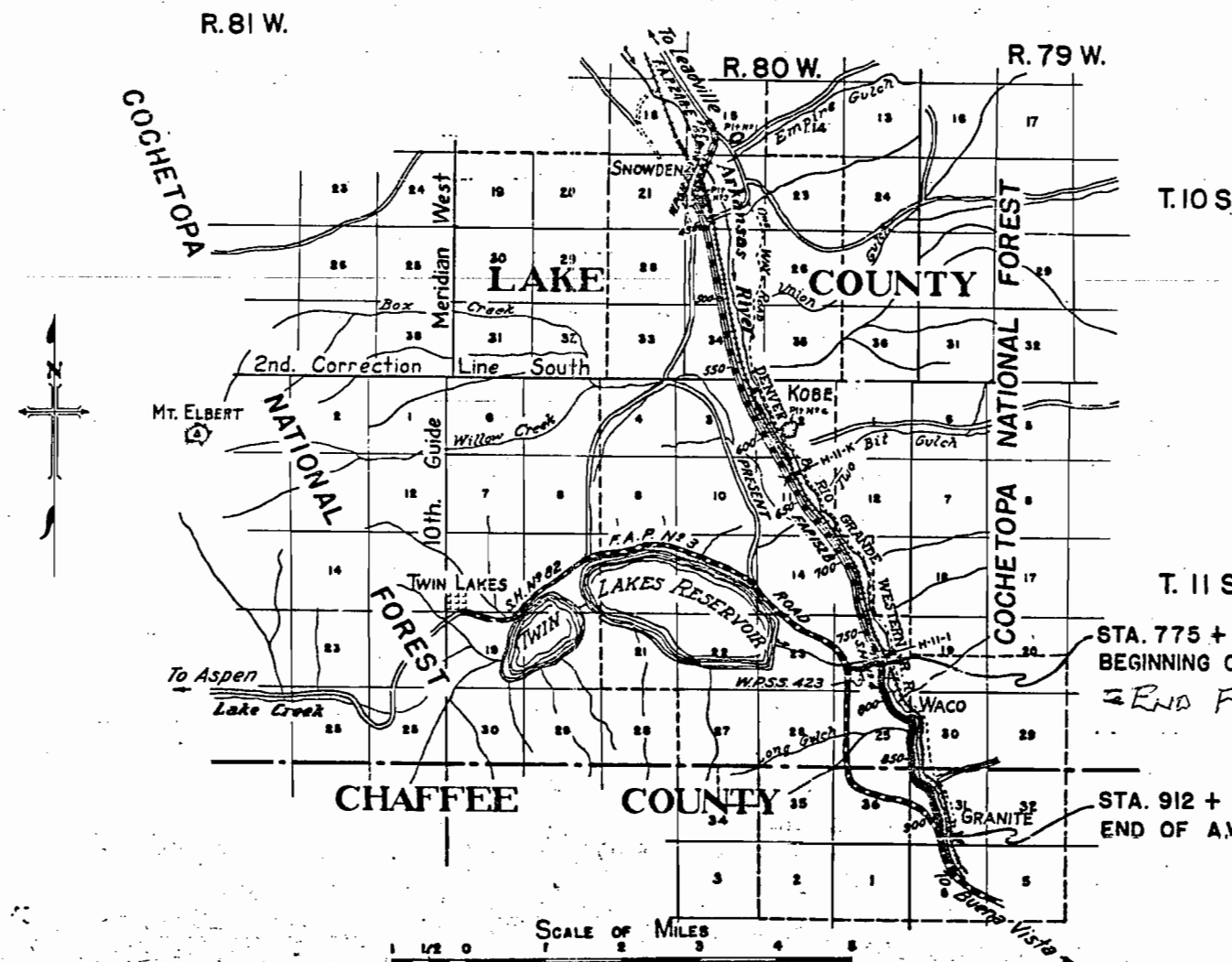
- SHEET NO. 1 SKETCH MAP AND TITLE SHEET
 2 TYPICAL CROSS SECTION AND SUMMARY OF QUANTITIES
 3 TABULATION OF STRUCTURES
 4 STANDARD CONCRETE BOX CULVERT M-104-D.
 5 DOUBLE CONCRETE BOX CULVERT M-105-B
 6 CATTLE GUARD M-15-B
 7 - 16' ROADWAY M-16-A
 8 SEMI-RIGID METAL PLATE GUARD FENCE M-24-A
 9 FLEXIBLE M-22-A
 10 WIRE FENCE (TREATED WOOD POSTS) AND MARKER POSTS M-24-F
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 10A STANDARD STRUCTURE NUMBER LETTERING M-10-A

SCALES OF ORIGINAL TRACINGS

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 13,638.8 FEET • 2.583 MILES
 NET LENGTH OF PROJECT

CONVENTIONAL SIGNS

CENTER LINE OF SURVEY 650
 RIGHT OF WAY LINES
 TOWNSHIP OR RANGE LINES
 SECTION LINES
 ONE-QUARTER SECTION LINES
 RAILROAD TRACKS
 BARBED WIRE FENCE
 POLE LINES



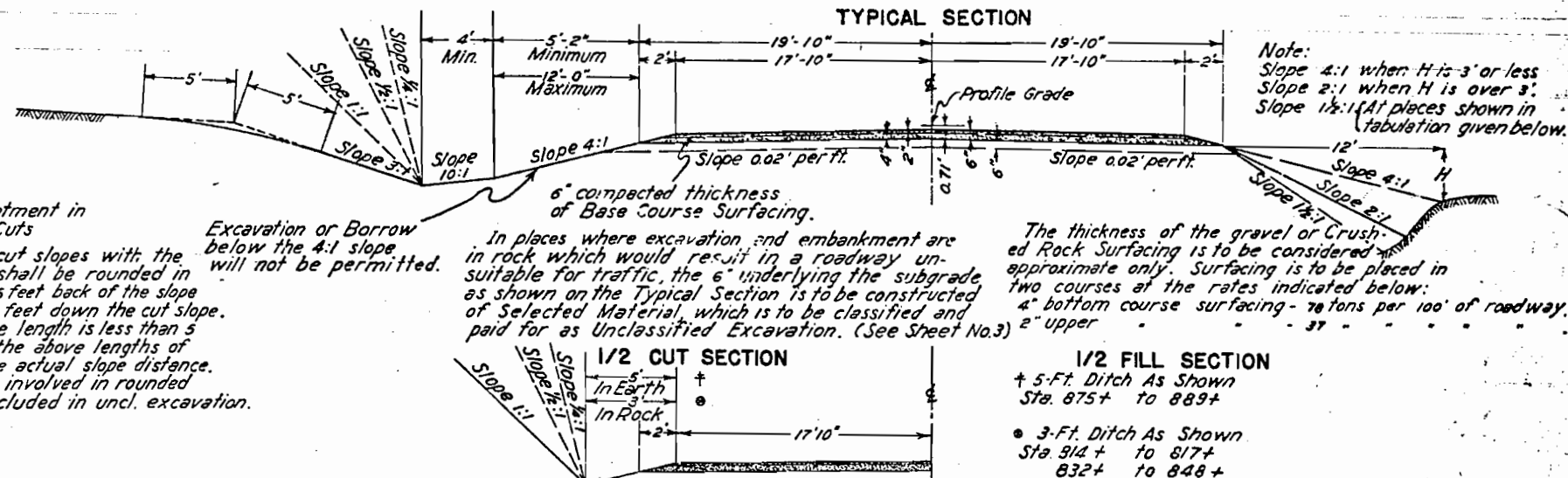
NOTE

It is recommended that the bidders on this Project go over the plan details with one of the following field representatives of this department:
 Ernest Montgomery Div. Eng'r. Colorado Springs
 E. W. Oviatt Res. Eng'r. Buena Vista

STA. 775 + 80
 BEGINNING OF A.W.P. 5003
 END FAP 152-B

STA. 912 + 50
 END OF A.W.P. 5003

RECOMMENDED FOR APPROVAL 6/12/36
 J. H. Montgomery ASSISTANT ENGINEER
 APPROVED Chas. D. Vail STATE HIGHWAY ENGINEER



TABULATION OF STRUCTURES

STATION	DESCRIPTION	REMOVE	EXCAVATION	STRUCTURAL EXCAV.	CONCRETE	REINF.	COR. MET. CULV. PIPE				COR. MET. CULV. PIPE				DRY RUBBLE	CATTLE GUARDS		GRAVEL	MISCELLANEOUS				
		STRUCT.	CU. YDS.	CU. YDS.	CU. YDS.	STEEL	LINEAR FEET				WITH PAVED INVERT				SLOPE PAWING	NO.	SURFACING.						
							NO.	EXC.	EMB.	* CL. A.	LBS.	18"	24"	30"				48"		24"	30"	48"	SQ. YDS.
778+00 778+50 779+15	Road Approach Rt. Cattle Guard Rt. C.M.P. Cross Culvert (Paved Invert) Ditch Change		300		10 70								66		10		1	200	Remove Road Surfacing				
780+10 782+00	Remove Pipe Line C.M.P. Cross Culvert (Paved Invert) Ditch Change Remove Flume Remove Sluice Box	1 1 1			80										80	20							
788+80 792+20 793+40	C.M.P. Cross Culvert (Paved Invert) Remove Wooden Flume C.M.P. Cross Culvert (Paved Invert) Remove Culvert	1 1 1			60 200										98 100	20 20							
798+10	C.M.P. Cross Culvert and Inlet		10		20							66				5							
804+40 to 804+63	10x10x50 Double Conc. Box Cross Culv. Type 10-A Channel Improvement & Remove Str.					(Quantities in Summary)																	
808+00 811+40	Cattle Guard and Road Approach Rt. C.M.P. Cross Culvert and Inlet & Outlet			50	5 30												1	15					
814+00 825+00 832+50 834+60 838+55	C.M.P. Cross Culvert and Inlet C.M.P. Cross Culvert and Inlet " " " " " " " " " " " " " " "		20 20 50 50 50		30 35 50 35 60							84 74 80 82				10 15 10 10 20							
844+00 846+50 852+00	Remove Culvert C.M.P. Cross Culvert and Inlet Remove Culvert C.M.P. Cross Culvert and Inlet C.M.P. Cross Culvert	1 1	50 50		50 35 60							74 68 78				10 10 10							
860+15 861+50 862+00	Intercepting Ditches Remove Outhouse (FORCE ACCOUNT) Cattle Guard, C.M.P. Side Drain, Road Appr. Rt.			50	5 10						30						1	15					
864+00 866+70	C.M.P. Cross Culvert Outlet Cattle Guard and Road Approach Rt. 10'x8'x56' Concrete Box Culvert Type 10-I Inlet, Cleaning Channel and Dike		50 50 150		5 450			136.2		11978		64					5 1		15				
870+00 876+85	Remove Culvert C.M.P. Cross Culvert Inlet C.M.P. Cross Culvert Inlet and Outlet	1			35 100							102				10 20							
890+00 895+50	Remove Culvert C.M.P. Cross Culvert Inlet C.M.P. Cross Culvert Ditches Rt. and Lt.	1			10 50							74 72				10 10							
901+00 906+50 910+50	C.M.P. Cross Culvert Outlet C.M.P. Cross Culvert C.M.P. " " Outlet		10 10 10		15 60 10							68 100 68				5 10 5							
912+50	Project Marker																		Project Marker				
TOTALS	LAKE COUNTY	7	1075	50	830							532	144	70		66	100	178	175	1	1	215	
	CHAFFEE COUNTY	2	365	50	730				136.2		11978	98	480	74					75	2		30	

Selected Material

It is estimated 6 inches of Selected Material will be required on Subgrade between stations listed below. This material will be obtained from highway right of way in the vicinity of stations 849 to 856, and shall be placed on subgrade at the rate of 90 cu. yds. per 100 lin. ft. of roadway. Estimated quantities involved in this operation are shown in tabulation below.

MATERIAL REQUIRED		QUANTITY	OVERHAUL	
STATION	TO STATION	CU. YDS.	STA. YDS.	YD. MI.
815+	to 822+	630	6930	215
830+	to 831+	90	990	10
833+	to 838+	450	4950	9
841+	to 843+	720	1800	
870+	to 875+	450	4950	34
TOTALS		1890	14670	234
LAKE COUNTY CHAFFEE COUNTY		450	4950	94

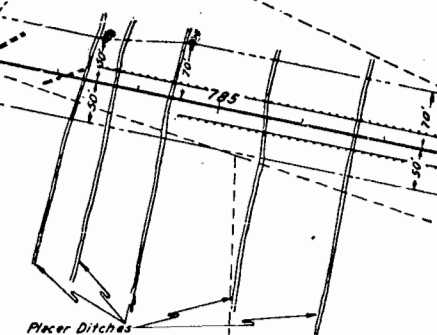
* Structural Excavation is estimated to be 75% common and 25% rock, each of which is estimated to be 75% dry and 25% wet.

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Sta. 782+00
Req'd. 48'x50' C.M.P. Cross Culvert (paved invert) and 250 cu.yds. uncl. excavation for ditch change.
Remove 1'x1' Wood Flume.

To Buena Vista

Sta. 783+10
Remove 1'x1 1/2'x50' Sluice Box.



Sta. 779+15
Req'd. 24'x66' C.M.P. Cross Culvert (paved invert) and 100 cu.yds. uncl. excavation for ditch change.

STA. 775+80
END F.A.P. 152-B
BEGINNING OF A.W.P. 5003

Sta. 778+50
Req'd. 16 ft. Cattle Guard Rt.
Sta. 778+00
Req'd. 300 cu.yds. uncl. excavation for road approach Rt.

NOTE:
Wye connection to Twin Lakes road to be built under W.P.S. 423.

S.E. 1/4 SECTION 24
T11S, R 80 W

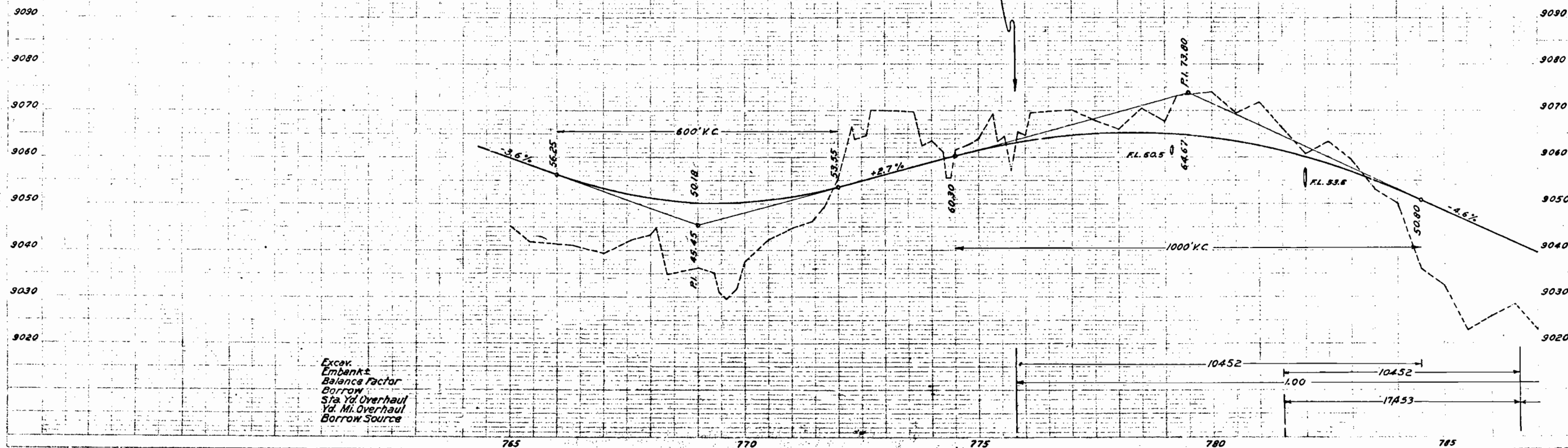
STA 35+38.9
END OF W.P.S.S. 423

N.E. 1/4 SECTION 24

- To Leadville

NOTE:
Metal Plate Guard Fence tabulated on sheet No. 2.
Fencing requirements " " " 2.
R.O.W. Markers " " " 2.

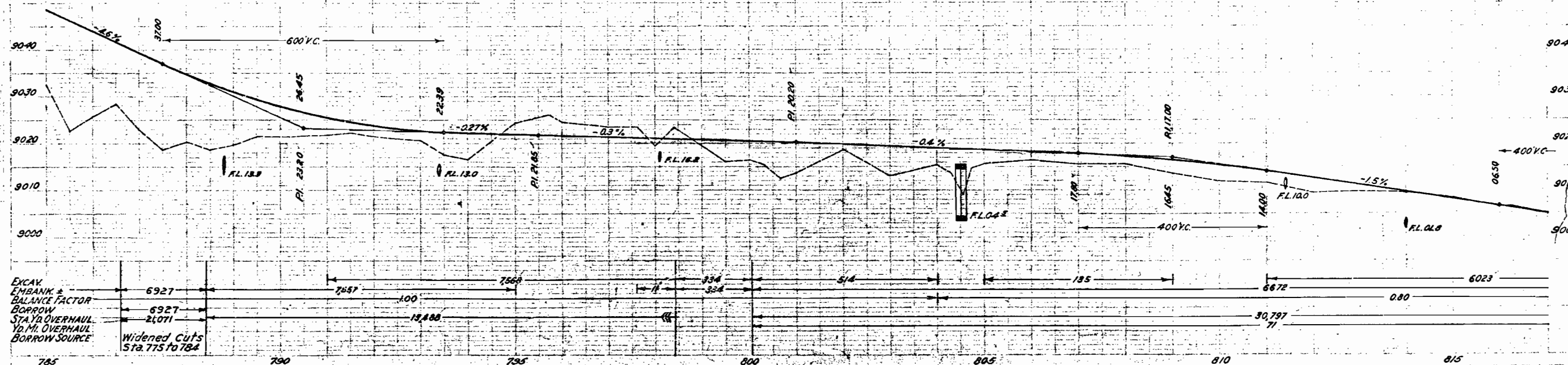
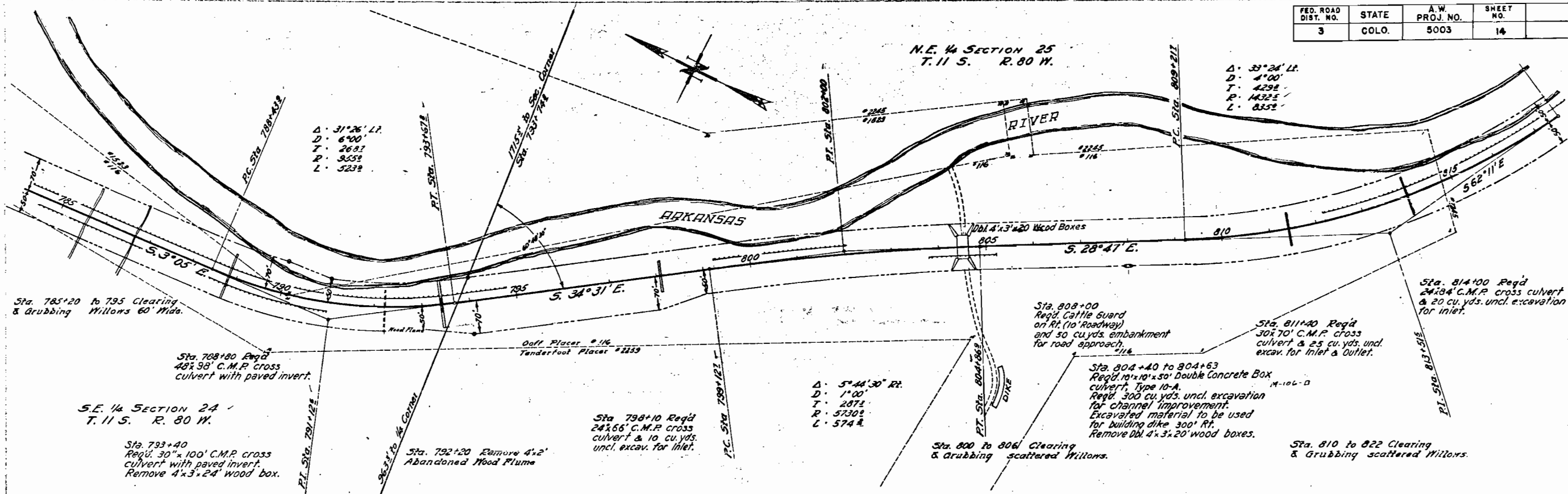
NOTE:
All suitable material obtained from new ditches and from excavation for culverts shall be used in the roadway embankment.
All borrow excavation is to be obtained from widened cuts on the R.O.W.



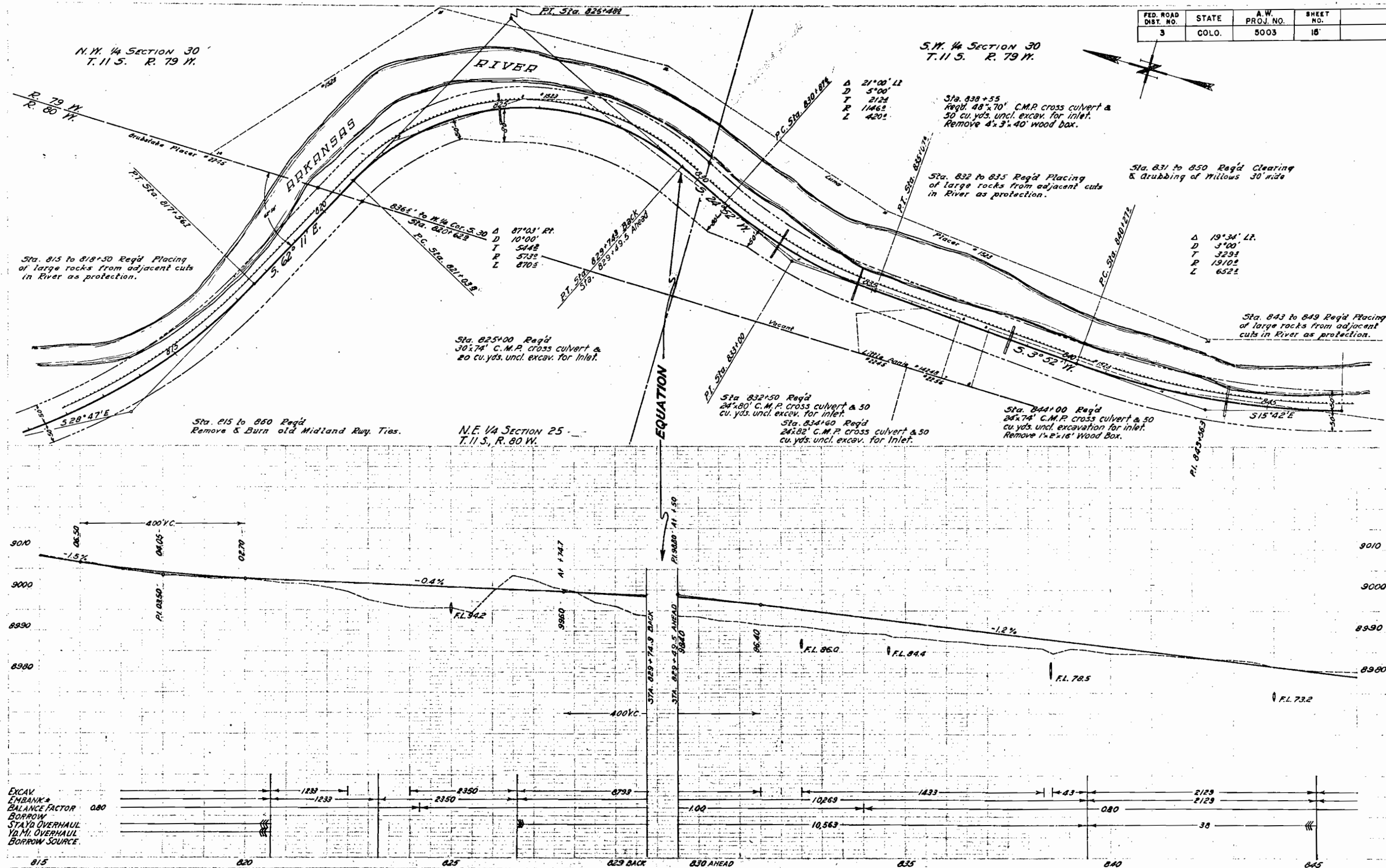
Excav.
Embank.
Balance Factor
Borrow
Sta. Yd. Overhaul
Yd. Mi. Overhaul
Borrow Source

FED. ROAD DIST. NO.	STATE	A.W. PROJ. NO.	SHEET NO.
3	COLO.	5003	14

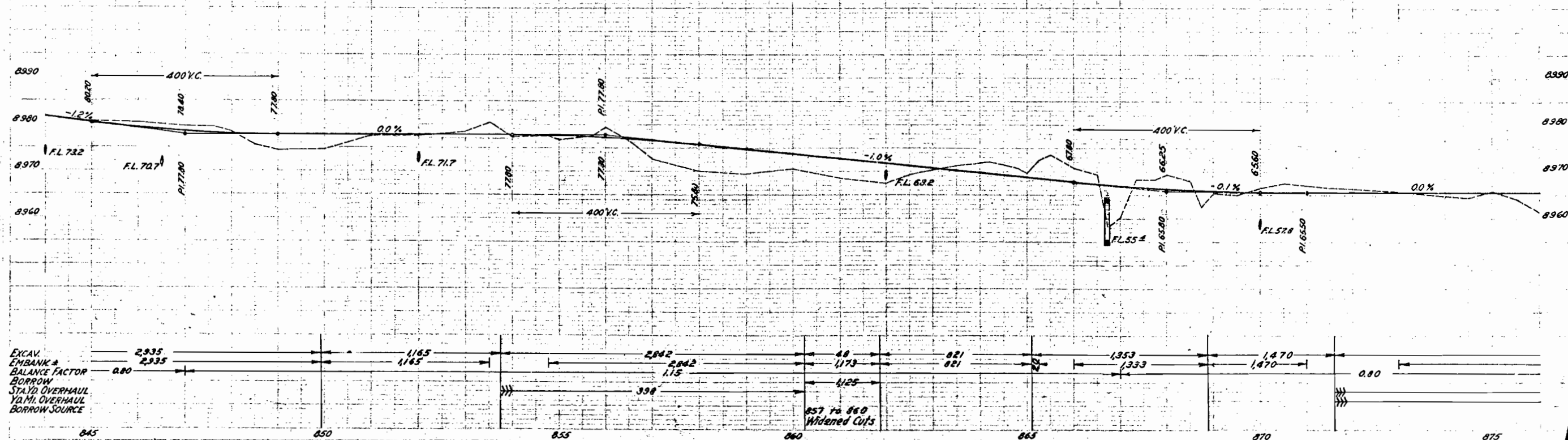
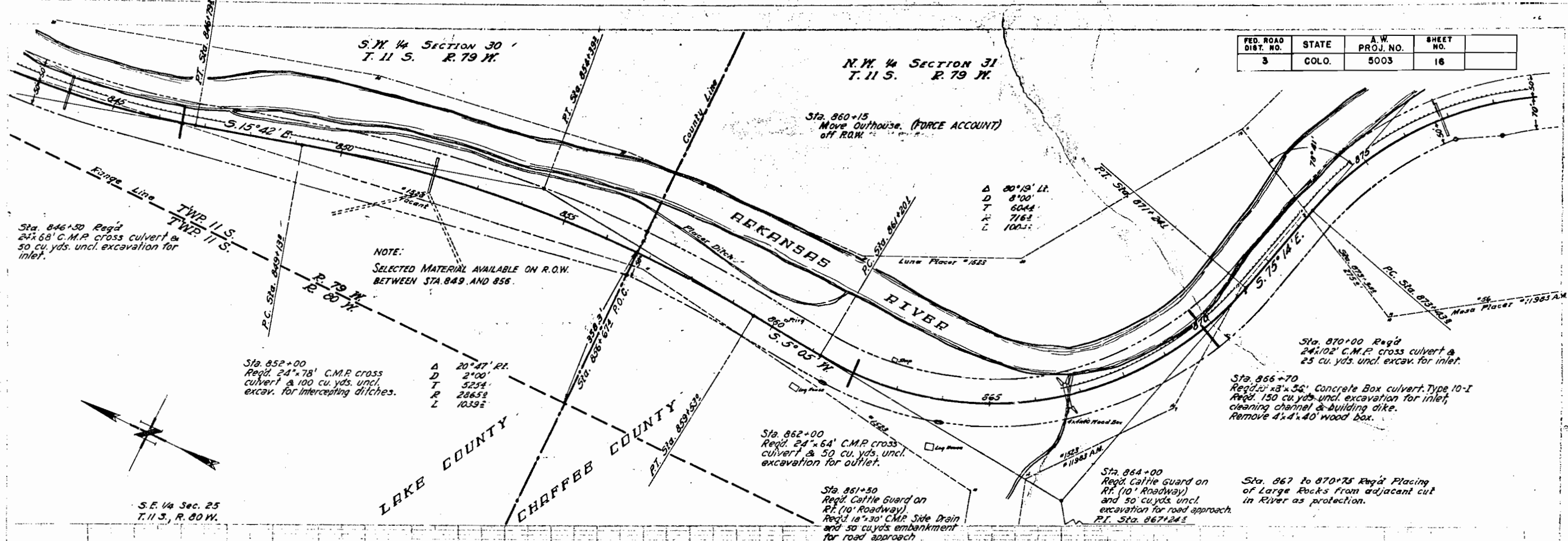
N.E. 1/4 SECTION 25
T. 11 S. R. 80 W.



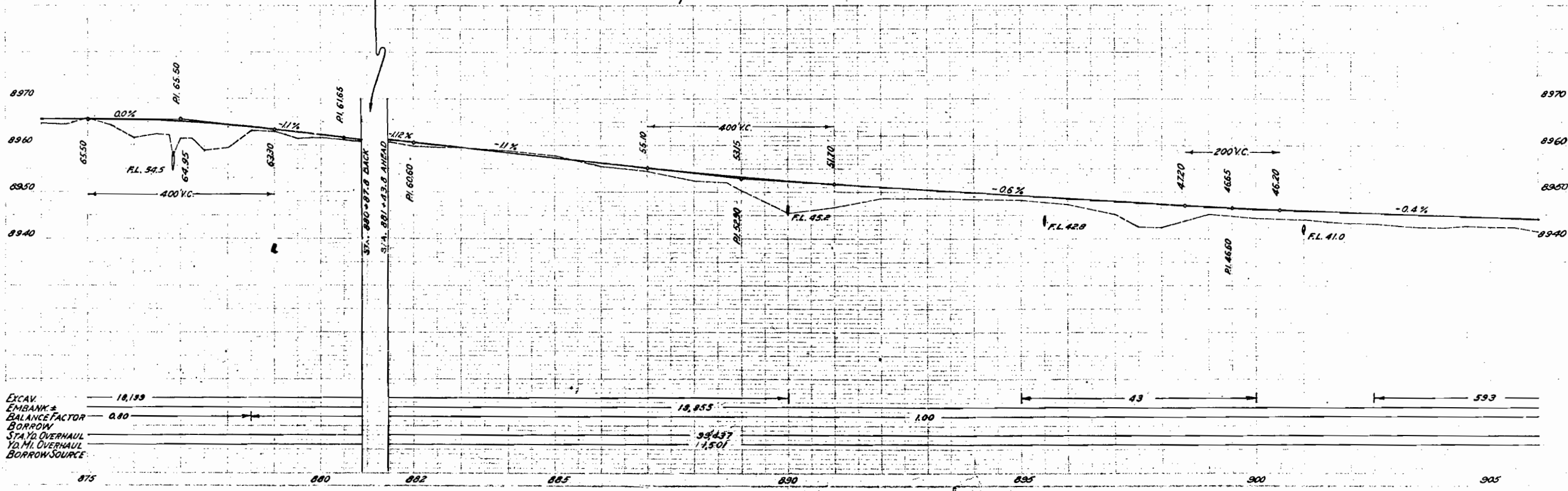
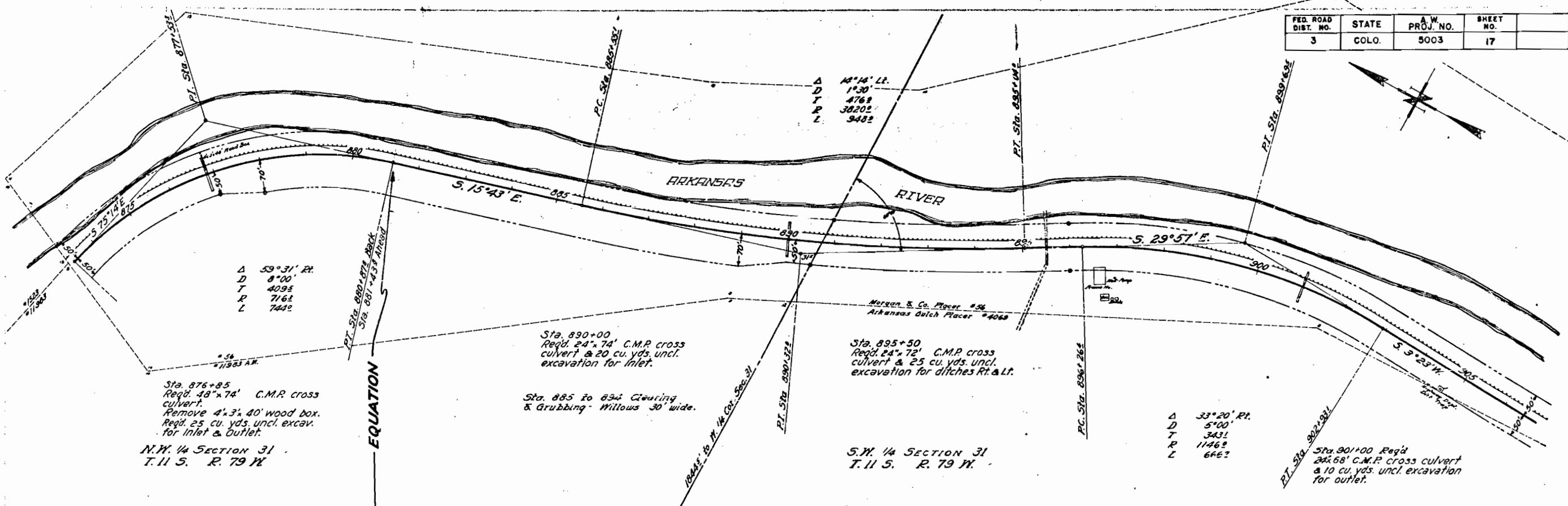
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3	COLO.	5003	18	



FED. ROAD DIST. NO.	STATE	A.W. PROJ. NO.	SHEET NO.
3	COLO.	5003	16

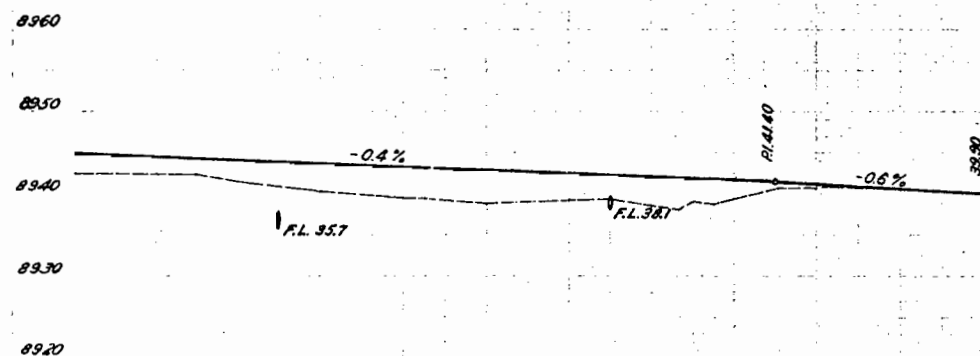
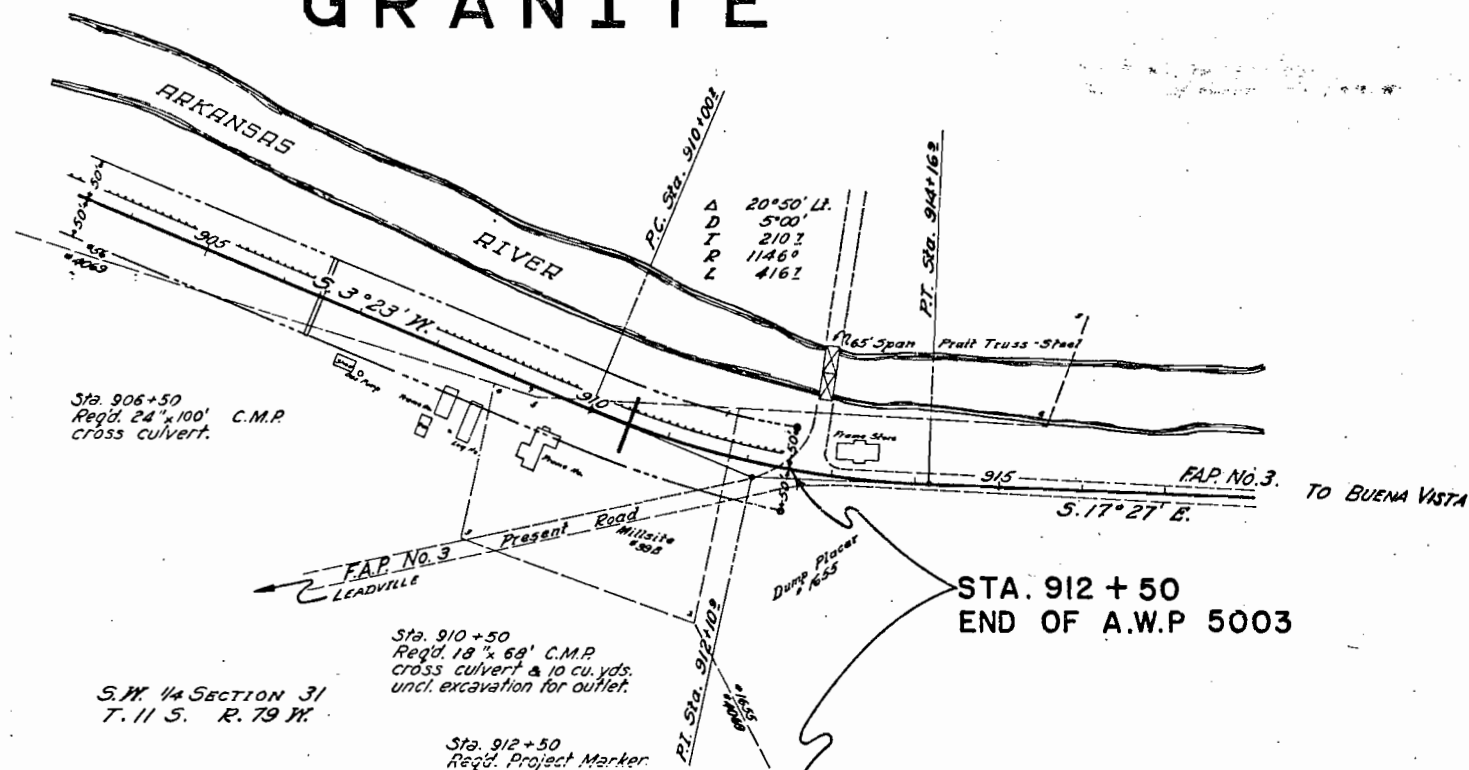


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3	COLO.	5003	17



FED. ROAD DIST. NO.	STATE	A.W. PROJ. NO.	SHEET NO.
3	COLO.	5003	18

GRANITE



EXCAV.
EMBANK.
BALANCE FACTOR
BORROW
STA. YD. OVERHAUL
YD. MI. OVERHAUL
BORROW SOURCE

