Rev. 12-4-47. - W.H.M. ~ Bridge Items. Delete Constr. Divs.

FED. ROAD DIST. NO.	STATE	STATE PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	10-83-502	1	

COLORADO
STATE HIGHWAY DEPARTMENT

PLAN AND PROFILE OF PROPOSED
STATE PROJECT NO. 10-83-502
STATE HIGHWAY NO. 83
ARAPAHOE COUNTY

INDEX OF SHEETS

1	TITLE SHEET AND SKETCH MAP.	
2	TYPICAL SECTION AND SUMMARY OF QUANTITIES.	
3	LIST OF STRUCTURES, SURFACING PLAN, FENCING REQUIREMENTS, R.O.W. MARKERS AND GUARD POSTS.	
4-7	DETAILS OF BRIDGE STA. 385+.	
8	DELETED.	
9	STANDARD YEAR NUMBERS AND STRUCTURE NUMBERS.	M 10 B
10	STANDARD MARKERS POSTS.	M 7 B
11	STANDARD HEADWALLS AND APRONS FOR C.M.P. CULVERTS.	M 102 G
12	STANDARD CONCRETE BOX CULVERT.	M 104 E
13	STANDARD TIMBER GUARD POSTS.	M 19 B
14	STANDARD WIRE FENCES (METAL POSTS).	M 27 B
15	STANDARD METHODS FOR SUPERELEVATION AND WIDENING OF CURVES.	M 1 B
16	TYPICAL SIDE APPROACH ROADS, FLARING, CUT SLOPE TREATMENT AND WIDENING AT BRIDGES.	M 2 C
17	STANDARD ROADWAY CONSTRUCTION TRAFFIC SIGNS.	M 2 D
18	CONTOUR INTERCEPTING AND DRAINAGE DITCHES.	M 107 B
19-24	ALIGNMENT PLAN AND PROFILE.	
25-55	CROSS SECTIONS.	
56	SUMMARY OF EARTHWORK QUANTITIES AND TABULATION OF INTERCEPTING DITCHES.	

SCALES OF ORIGINAL TRACINGS

ON PLAN, 1 IN. = 100 FT.

ON PROFILE { 1 IN. = 100 FT. HORIZONTAL; 1 IN. = 10 FT. VERTICAL

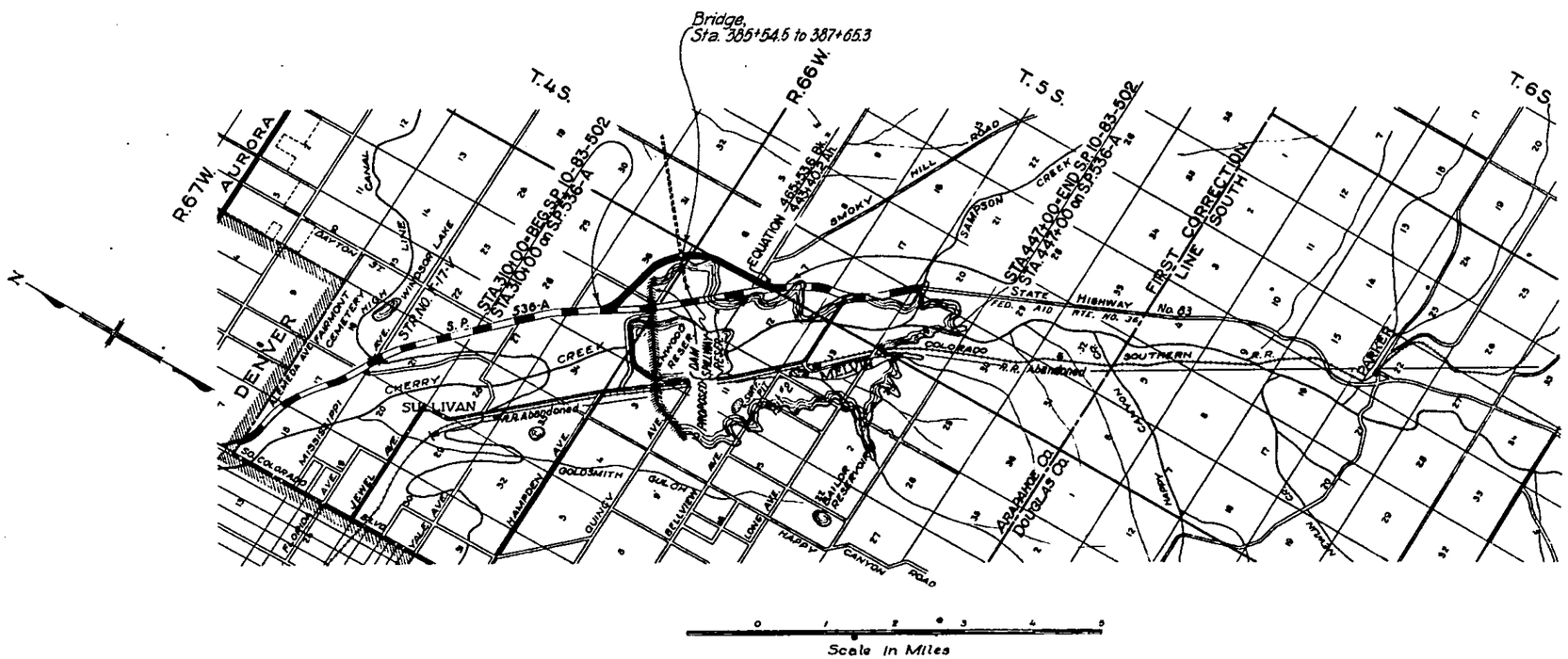
GRADE LINE ON PROFILE IS SHOWN AS GRADE OF FINISHED ROAD

GROSS LENGTH OF PROJECT } 15913.4 FEET = 3.013 MILES
NET LENGTH OF PROJECT }

CONVENTIONAL SIGNS

Center line
Township and range line
Section line
Quarter section line
City limit
Barbed wire fence
Woven wire fence
Board fence
Picket fence
Guard fence
Telephone line
Power line
Right of Way Line

10-83-502



NOTE

It is recommended that bidders on this Project go over the plan details with the following field representative of this Department:
E.E. Montgomery - Division Engineer, Denver, Colo.

RECOMMENDED FOR APPROVAL
Jas. A. Bell
ASSISTANT ENGINEER — DATE 12-11-47

APPROVED
Mark A. Watkins
STATE HIGHWAY ENGINEER — DATE 12-17-47

RECOMMENDED FOR APPROVAL — DATE

APPROVED — DATE

Rev. 12-4-47 - W.H.M. ~ C.B.C. & Road Appr.

FED. ROAD DIST. NO.	STATE	STATE PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	10-83-502	19	

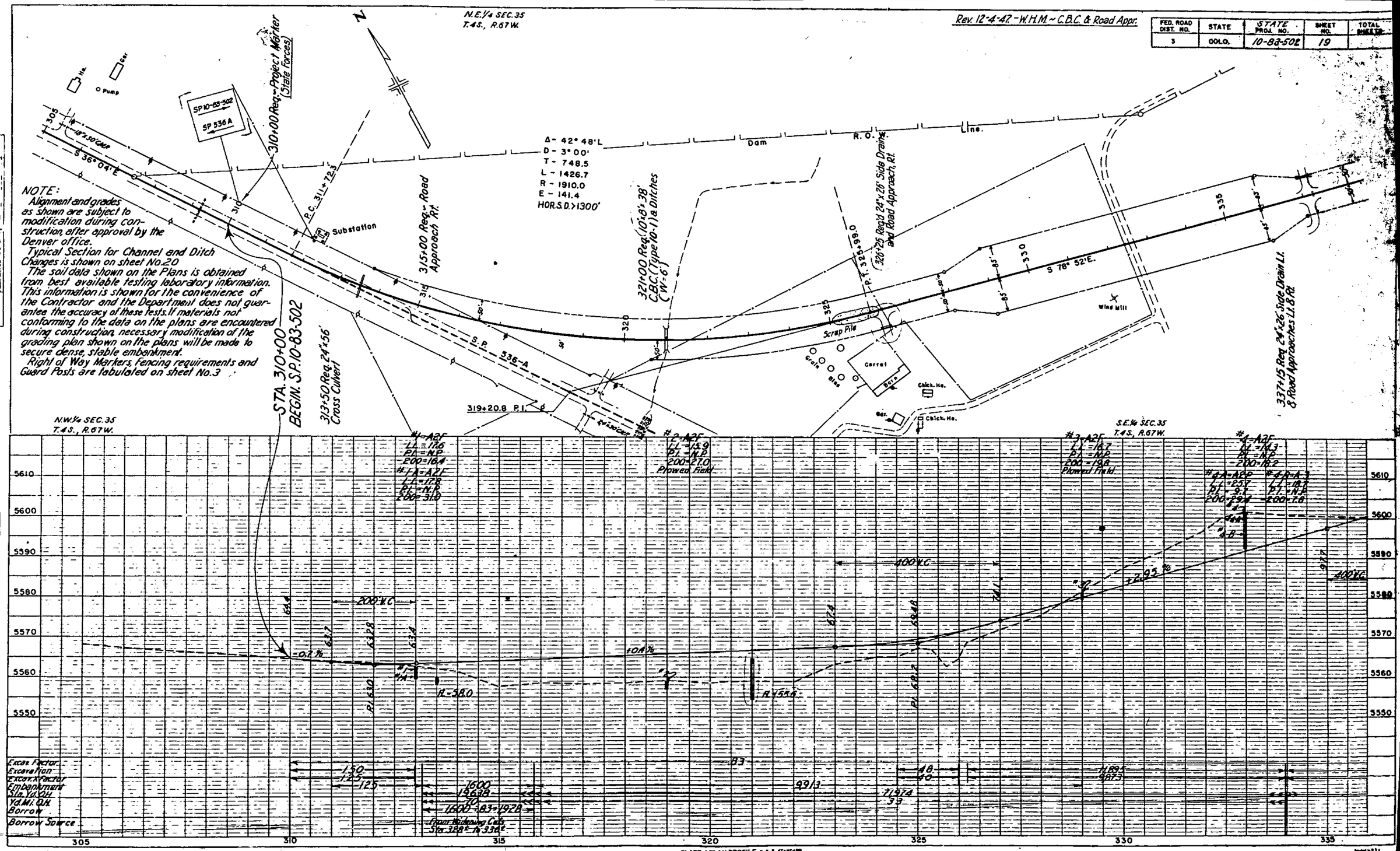
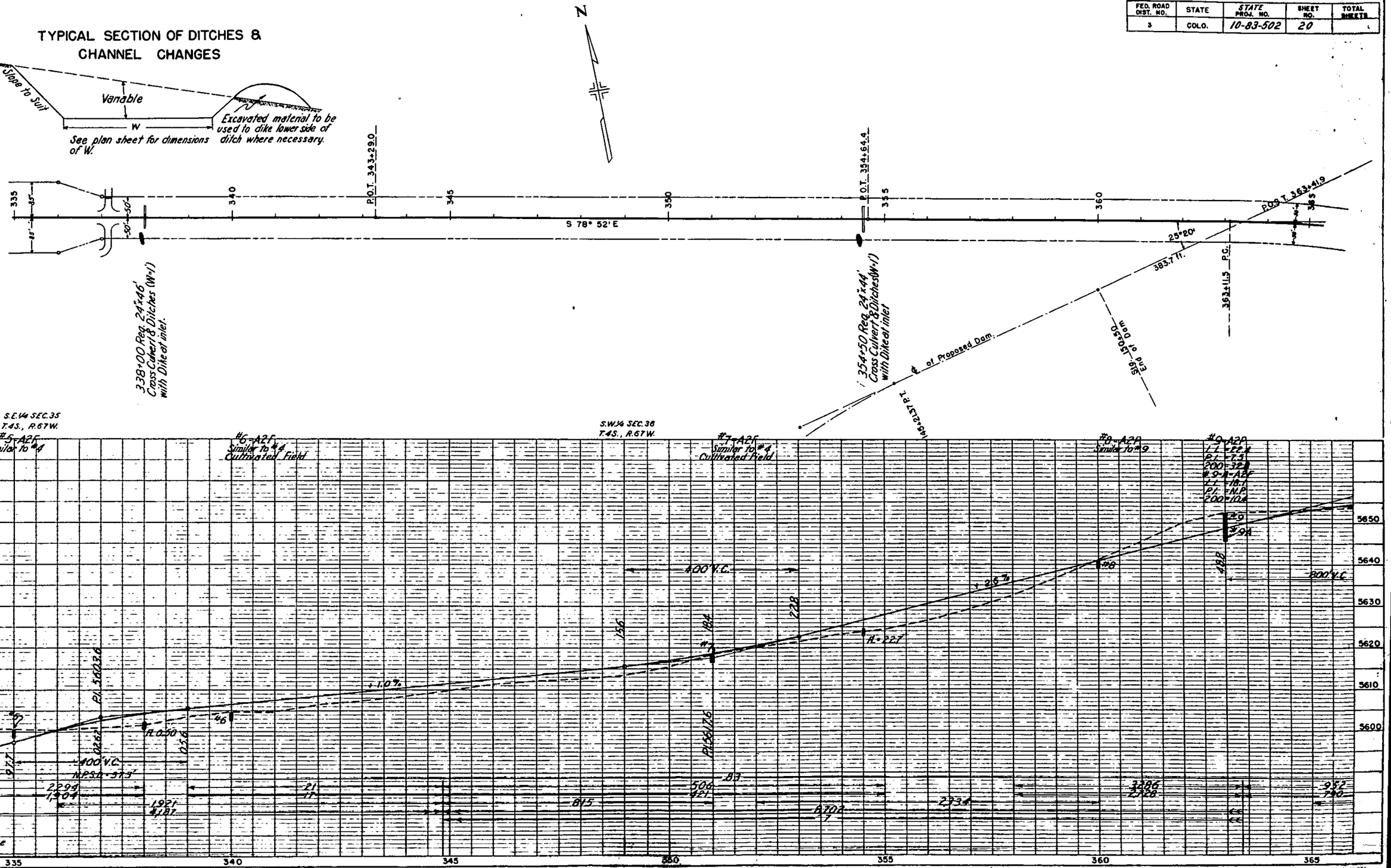


PLATE I-PLAN-PROFILE

FED. ROAD DIST. NO.	STATE	STATE PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	10-83-502	20	

TYPICAL SECTION OF DITCHES & CHANNEL CHANGES



PLAN

PROFILE

PLATE 1 PLAN-PROFILE

Rev. 12-4-47. - W.H.M. ~ Bridge.

FED. ROAD DIST. NO.	STATE	STATE PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	10-B3-502	21	

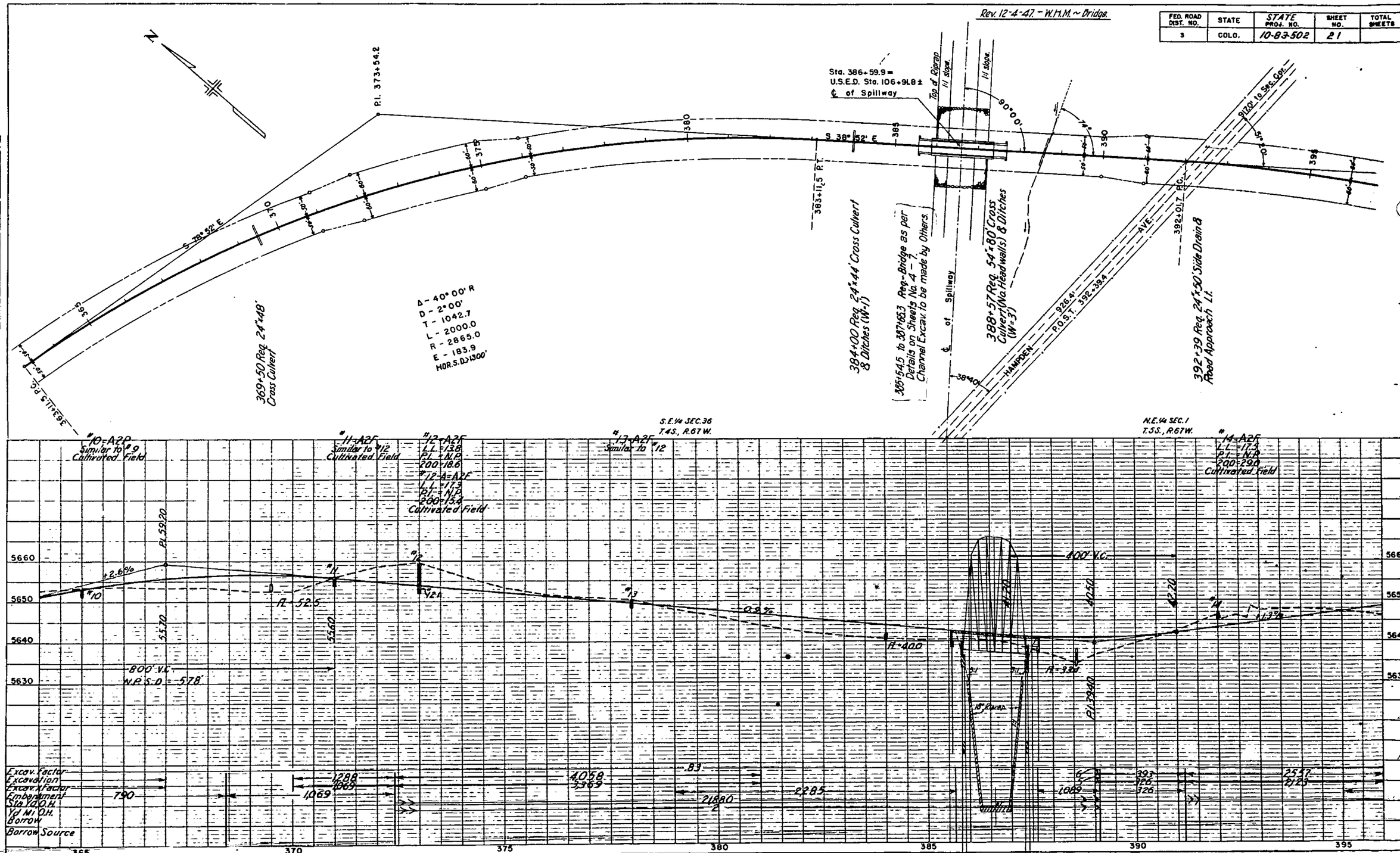
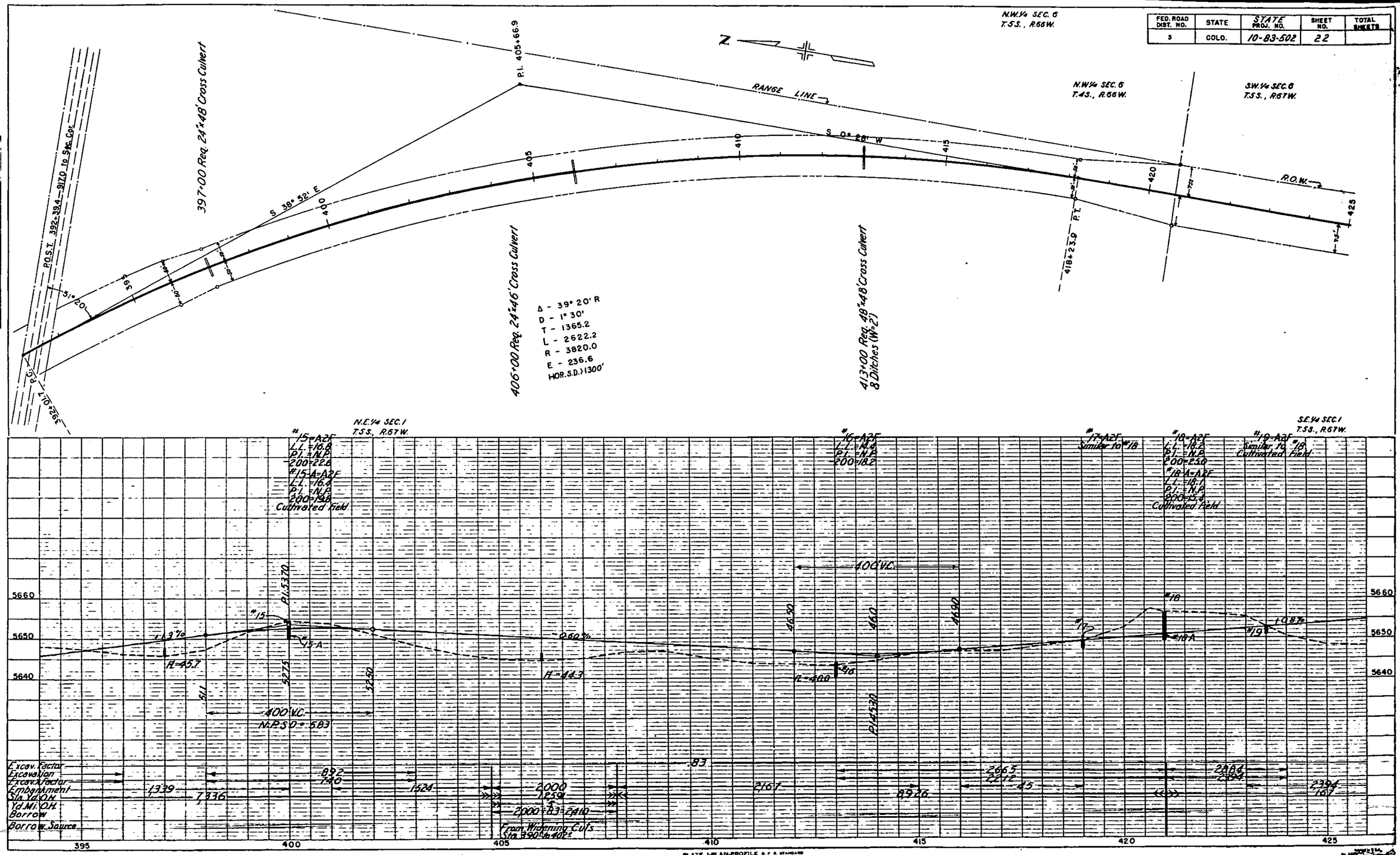


PLATE 1-PLAN-PROFILE

FED. ROAD DIST. NO.	STATE	STATE PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	10-83-502	22	



PLAN

PROFILE

PLATE 1-PLAN-PROFILE

FED. ROAD DIST. NO.	STATE	STATE PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	10-88-502	2-3	

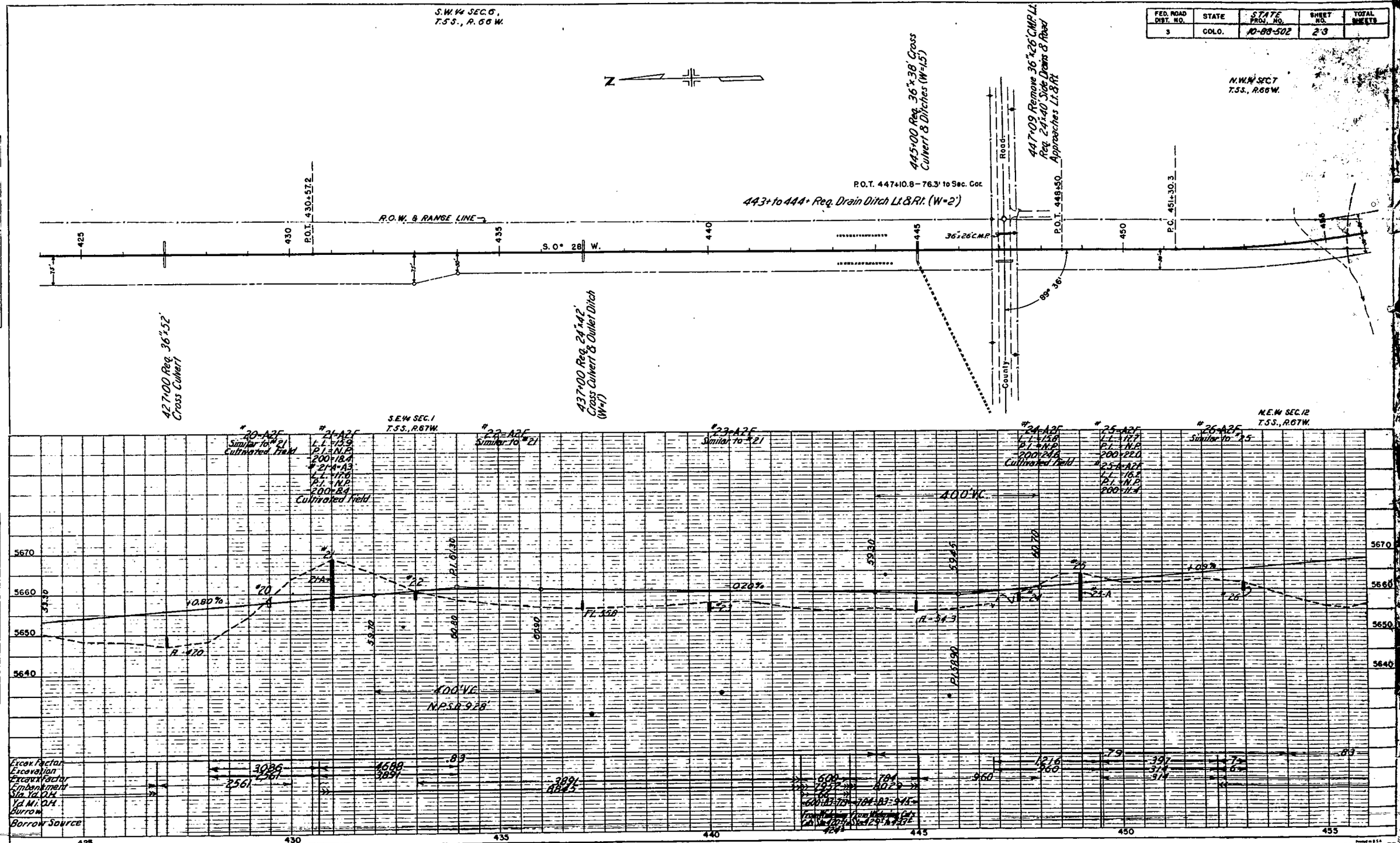


PLATE I-PLAN-PROFILE A. P. W. STANDARD

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Printed in U.S.A. On ARCWRIGHT Tracing Cloth

FED. ROAD DIST. NO.	STATE	STATE PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	10-83-502	24	

N.W.¼ SEC.7
T.5S., R.66W.

N

P.C. 451+30.3

R.O.W.

455+50 Reg. 36"x70' Cross Culvert & Inlet Ditch (W=1.5')

S. 0°28' W.

459+00 Reg. Road Approach Lt.

Δ - 28°28' L
D - 2°00
T - 726.8
L - 1423.3
R - 2865.0
E - 90.8
HOR. S.D.>1300'

459+40 Remove 18"x28' C.M.P. Rt.

460+00 Remove 18"x26' C.M.P. Rt.

P.T. 465+53.6 Bk=
P.O.T. 443+40.2 Ah.

S. 28° 0.0' E.=(S 28°0'E on S.P.536-A)

S.P. 536-A

P.I. 458+57.

P.C. 436+99.3

P.T. 441+90.1

RANGE LINE

EQUATION

STA. 447+00 = END S.P.10-83-502

458+50 Reg. Road Approach Rt.

Δ - 09° 49'
D - 2°00'
T - 246.0
L - 490.8
R - 2865.0

N.E.¼ SEC.12
T.5S., R.67W.

#27-A2F
L.L.=19.2
P.I.=2.9
200=36.8
Pasture Land

#28-A2F
L.L.=33.3
P.I.=N.P.
200=12.8

#29-A2F
L.L.=26.6
P.I.=N.P.
200=30.6

#28
P.I. 57+33
Rock
#27
+0.9%
67.90
60.02
R-55.0
#29
49.6
36.05
1200' V.C.
N.P.S.D. = 601
58.33
#65+53.6 Bk=
#43+40.2 Ah.
68.33

5680
5670
5660
5650
5640
5630

455
460
465
450

Excav. Factor	.83				
Excavation		2072	163	170	
Excav. Factor		1529	135	142	
Embankment	7667		3	17	
Sta. Yd. O.H.		1,5792			
To Mt. O.H.					
Borrow					
Borrow Source					