

**CONVENTIONAL SIGNS**

STATE LINE	=====	TIMBER	.....
COUNTY LINE	=====	BRUSH	.....
TOWNSHIP OR RANGE LINE	=====	ORCHARD	.....
SECTION LINE	=====	ROCK LEDGE	.....
QUARTER LINE	=====	SAND	.....
SIXTEENTH LINE	=====	EDGE OF CUT	.....
RIGHT-OF-WAY LINE	=====	TOE OF EMBANKMENT	.....
PRESENT ROAD 1/4 LINE	=====	CATCH BASIN	.....
LIMITED ACCESS	-----	MANHOLE	.....
PROPERTY LINE (Except Land Lines)	-----	DROP INLET	.....
VACATED PLATTED PROPERTY	-----	FIRE HYDRANT	.....
CORPORATE OR CITY LIMITS	-----	ARC LAMP	.....
TRUNK HIGHWAY CENTER LINE	-----	OTHER LAMPS (Shin Knd)	.....
RETAINING WALL	-----	RAILROAD CROSSING SIGN	.....
STEAM RAILROAD	-----	RAILROAD CROSSING BELL	.....
ELECTRIC RAILROAD	-----	ELECTRIC WARNING SIGN	.....
RAILROAD RIGHT-OF-WAY LINE	-----	CROSSING GATE	.....
CREEK	-----	CATTLE GUARD	.....
RAPIDS OR WATERFALL	-----	OVERHEAD (Highway Over)	.....
DRY RUN	-----	UNDERPASS (Highway Under)	.....
DRAINAGE DITCH	-----	ABUTMENT, WALL & PIER	.....
HIGH TENSION LINE	-----	BRIDGE	.....
POWER POLE LINE	-----	CULVERT	.....
TELEPHONE OR TELEGRAPH LINE	-----	BUILDING (One Story Frame)	.....
TELEPHONE CONDUIT	-----	HEDGE	.....
GUARD RAIL	-----	IRON PIPE	.....
WIRE FENCE	-----	STONE MONUMENT	.....
RAILROAD SNOW FENCE	-----	WOOD STAKE @ R HUB	.....
BOARD OR HIGHWAY SNOW FENCE	-----	MEANDER CORNER	.....
STONE WALL OR FENCE	-----		
GAS MAIN	-----		
WATER PIPE	-----		
SEWER PIPE	-----		
DRAIN TILE	-----		
GRAVEL PIT	-----		
SAND PIT	-----		
CLAY PIT	-----		
ROCK QUARRY	-----		
SPRINGS	-----		
MARSH	-----		

**OFFICE OF COUNTY ENGINEER**

**RAMSEY COUNTY**

CONSTRUCTION PLAN FOR GRADING AND PAVING

**COUNTY ROAD "B"**

FROM EAST OF SNELLING AVE. (T.H.51) TO WEST OF HAMLIN AVE. (C.S.A.H. 50)  
444.11' E. OF N.W. COR. SEC. 15 T.29N., R.23 W. 24' W. OF N. 1/4 COR. SEC. 15 T.29N., R.23 W.

S.A.P. 62-625-01

GROSS LENGTH	2166.30 FEET	0.41 MILES
BRIDGES-LENGTH	0 FEET	0 MILES
EXCEPTIONS-LENGTH	0 FEET	0 MILES
NET LENGTH	2166.30 FEET	0.41 MILES

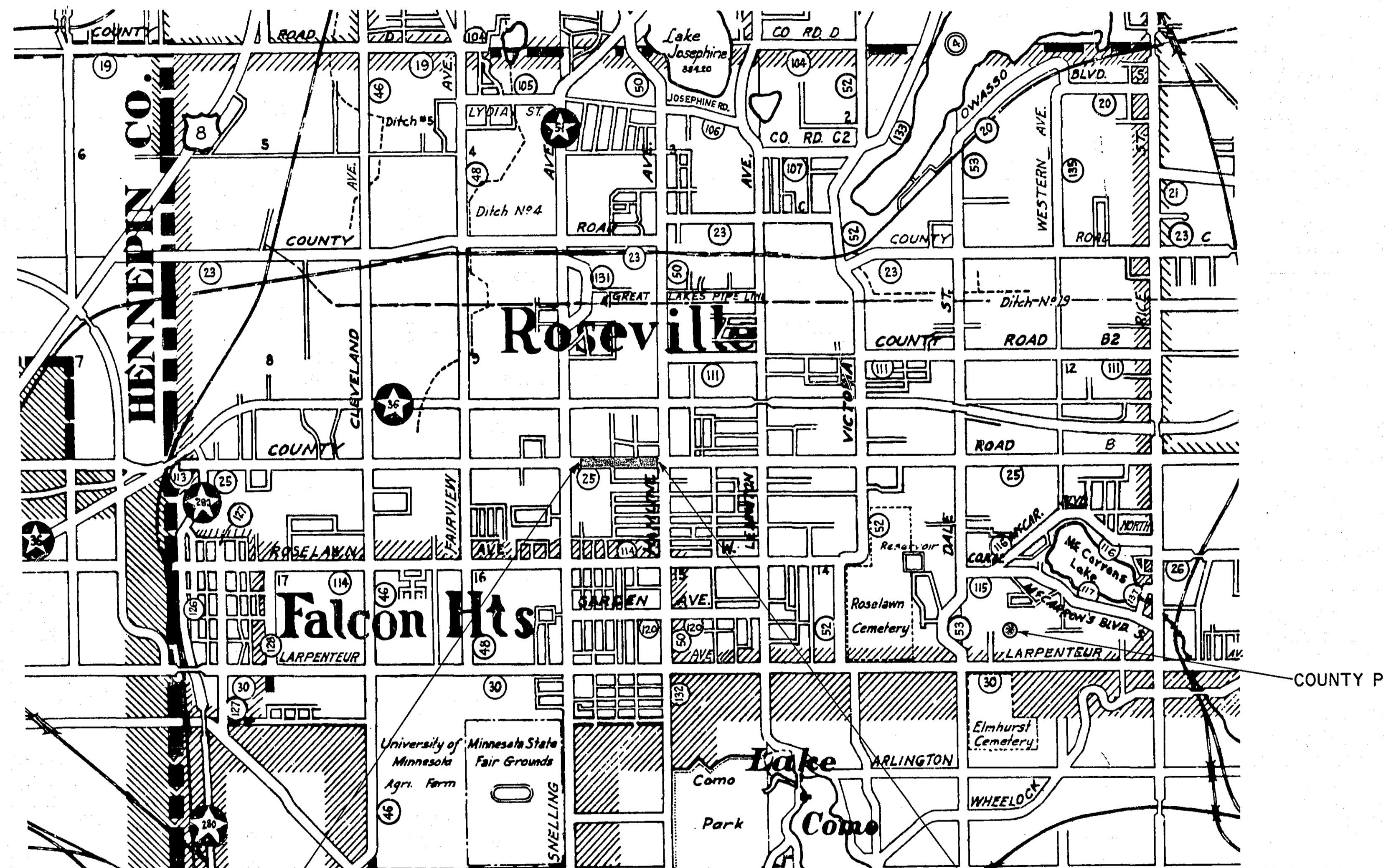
**INDEX**

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	TYPICAL SECTIONS & ESTIMATED QUANTITIES
3	SPECIAL DETAIL & DRAINAGE STRUCTURE CHART
4	PLAN & PROFILE SHEET
5-8	CROSS SECTION SHEETS
9	ROSEVILLE WATERMAIN PLAN

SCALES

PLAN, 1 inch = 100 Feet
PROFILE, Horiz. 1 inch = 50 Feet. Vert. 1 inch = 5 Feet.
WORKING PLANS { Horiz. 1 inch = 100 Feet Vert. 1 inch = 10 Feet
Cross-Sections 1 inch = 10 Feet
LAYOUT, 1 inch = 2640 Feet

DESIGN SPEED 30 M.P.H.  
PROJECTED TRAFFIC (1980)=15,000 A.D.T.



BEG. OF PROJ.  
STA. 110+12

END OF PROJ.  
STA. 131+78.30

**PIT DATA**

COUNTY PIT NO. _____	Located in S.W. 1/4 of S.W. 1/4 of SEC. 13, T.29N., R.23 W.
_____	Dead Haul
PIT NO. _____	Located in _____
_____	Dead Haul
PIT NO. _____	Located in _____
_____	Dead Haul
PIT NO. _____	Located in _____
_____	Dead Haul

— SPECIFICATIONS —  
THE "SPECIFICATIONS FOR HIGHWAY CONSTRUCTION" DATED MAY 1, 1959 SHALL GOVERN.

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.  
*Walter Acker* ENGINEER REG. NO. 2022 DATE 1-21-63

RECOMMENDED FOR APPROVAL *Dora R. Ankla* DATE 1-21-63  
COUNTY ENGINEER

APPROVED *Geo. Spaville* DATE 1-21-63  
CHAIRMAN OF RAMSEY COUNTY BOARD

MINNESOTA STATE HIGHWAY DEPARTMENT

RECOMMENDED FOR APPROVAL *Franklin R. Beck* DATE 3-29-63  
Dist. State Aid Engr.

RECOMMENDED FOR APPROVAL *P.A. Hoffman* DATE 3-29-63

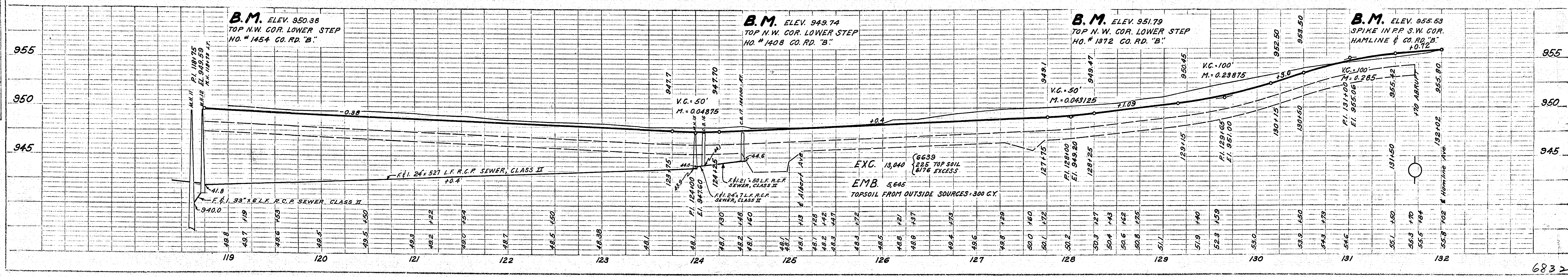
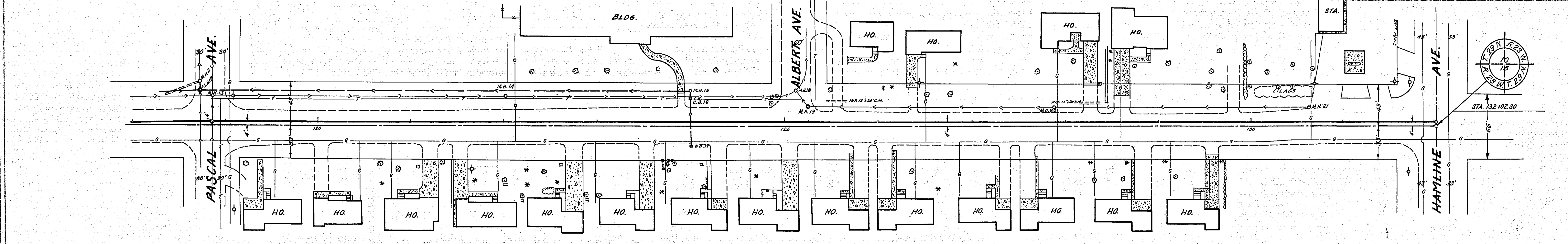
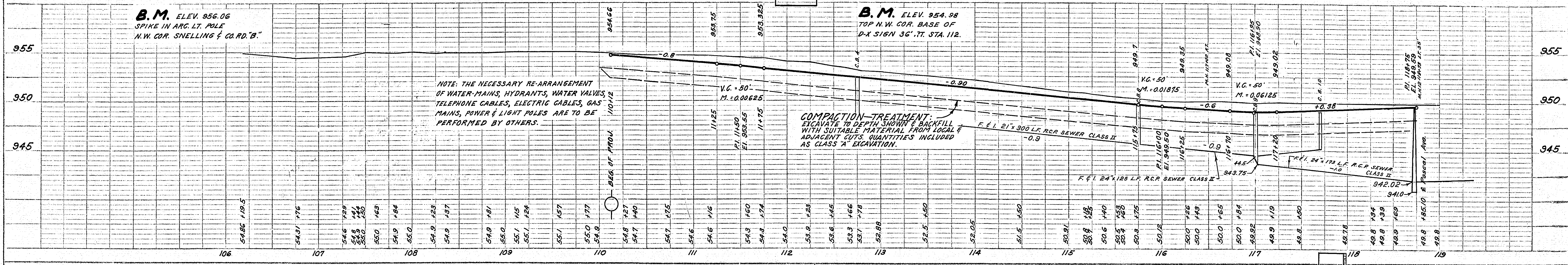
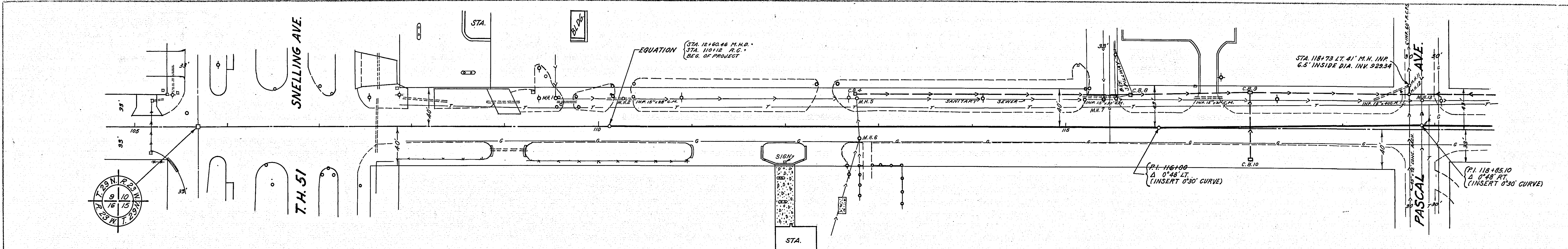
APPROVED *W. Mason* DATE 4-2-63  
STATE AID ENGINEER

**MICRO-FILMED**



NO.	
DATE	
REVISIONS	
APPROVED	
DESIGNED	
CHECKED	
NOTED	
DATE	

NO.	
DATE	
REVISIONS	
APPROVED	
DESIGNED	
CHECKED	
NOTED	
DATE	





STATION-ELEVATION  
⊕

EXCAVATION | EMBANKMENT  
SUB-TOTALS - CU. YDS. | CU. YDS. - SUB-TOTALS

STATION-ELEVATION  
⊕

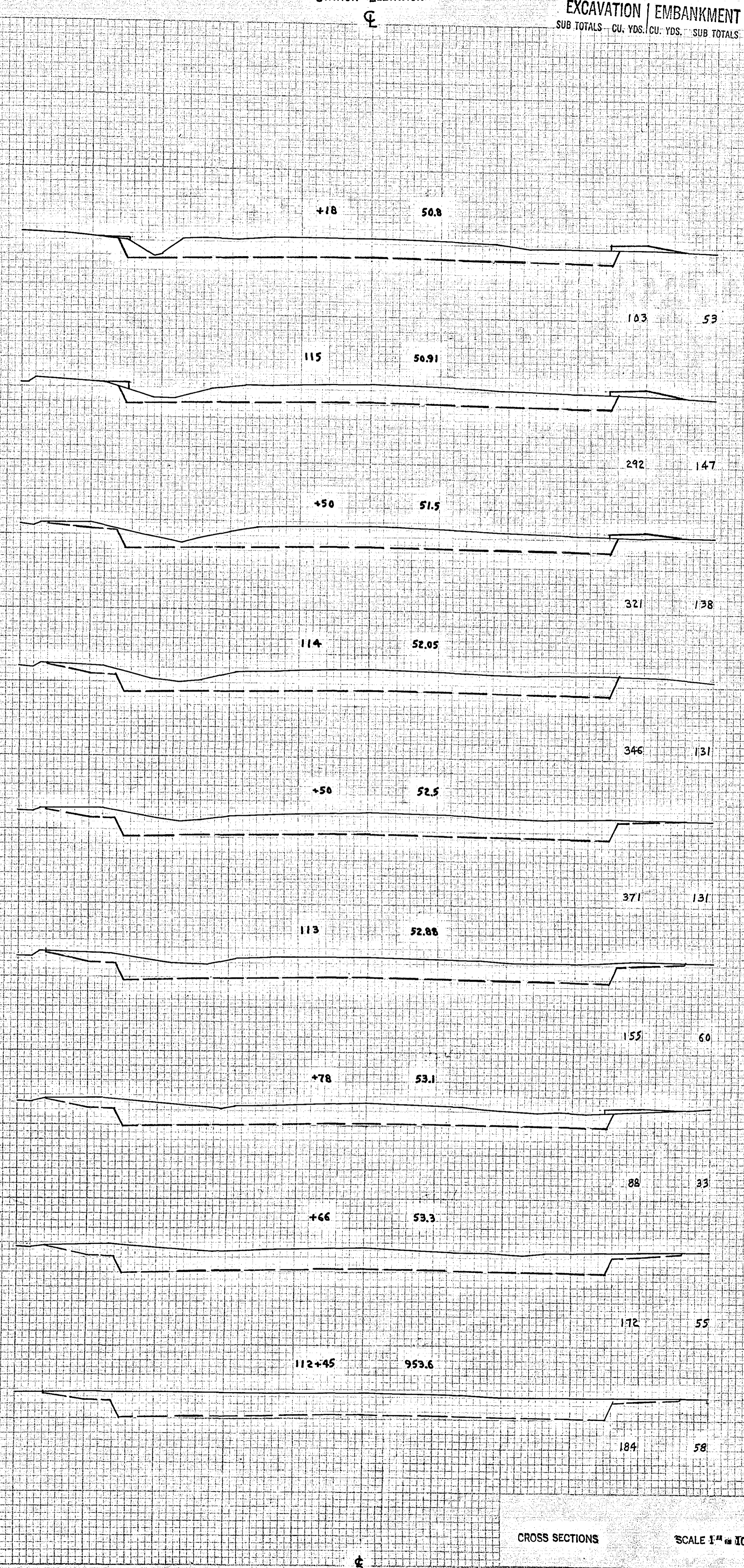
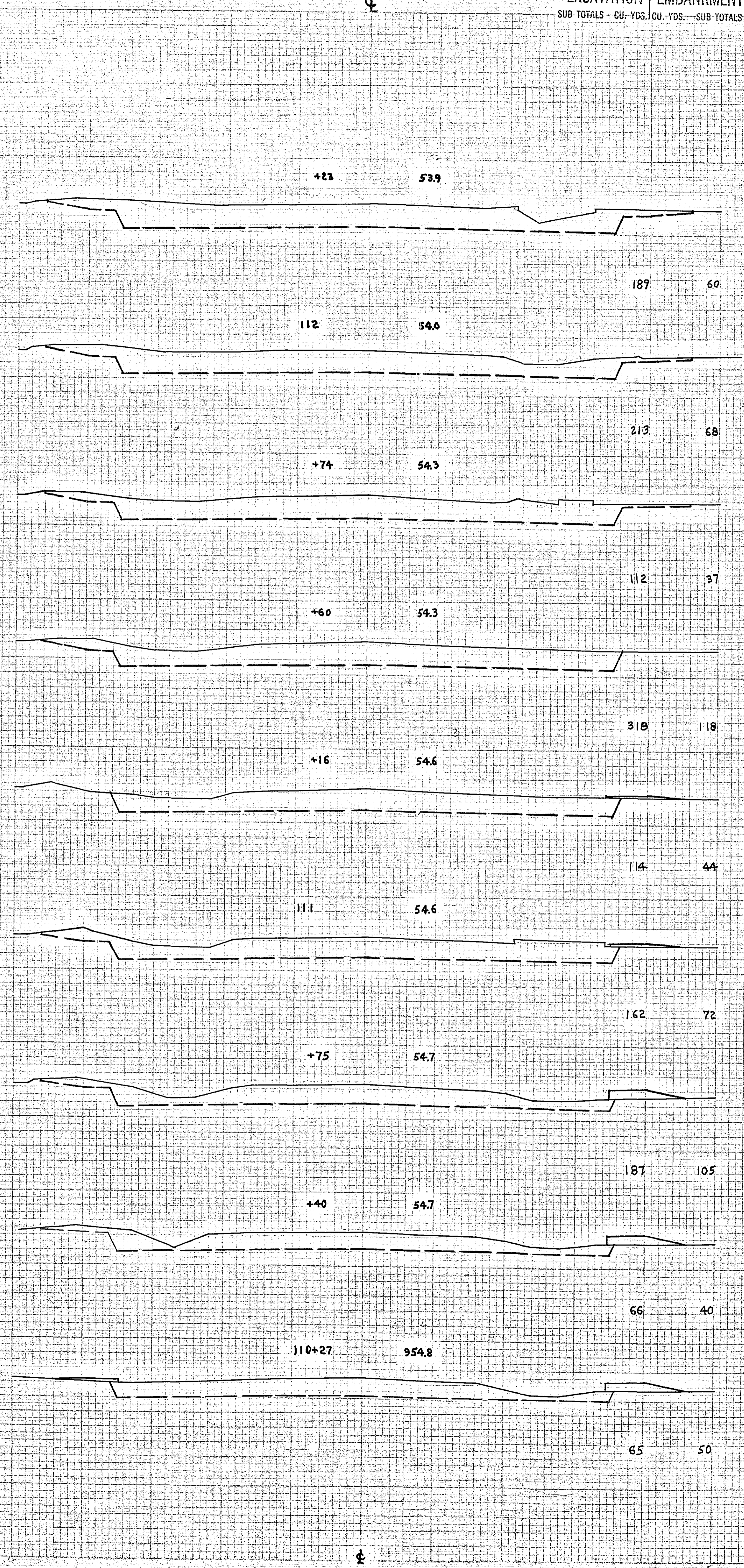
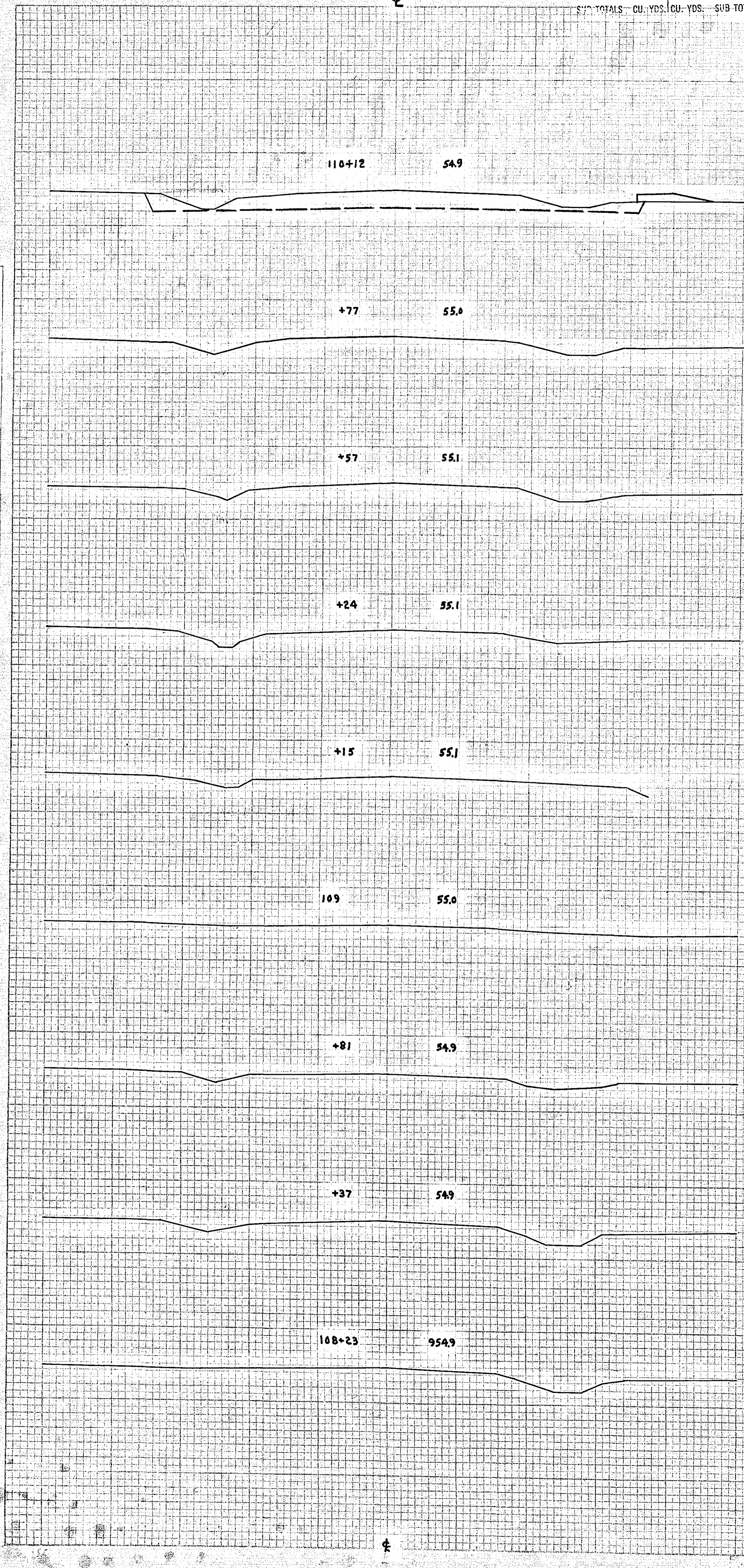
EXCAVATION | EMBANKMENT  
SUB-TOTALS - CU. YDS. | CU. YDS. - SUB-TOTALS

STATION-ELEVATION  
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EXCAVATION | EMBANKMENT  
SUB-TOTALS - CU. YDS. | CU. YDS. - SUB-TOTALS

NO. 10  
DATE  
BY  
CHECKED  
DATE

NO. 10  
DATE  
BY  
CHECKED  
DATE



CROSS SECTIONS SCALE 1" = 10'



STATION-ELEVATION

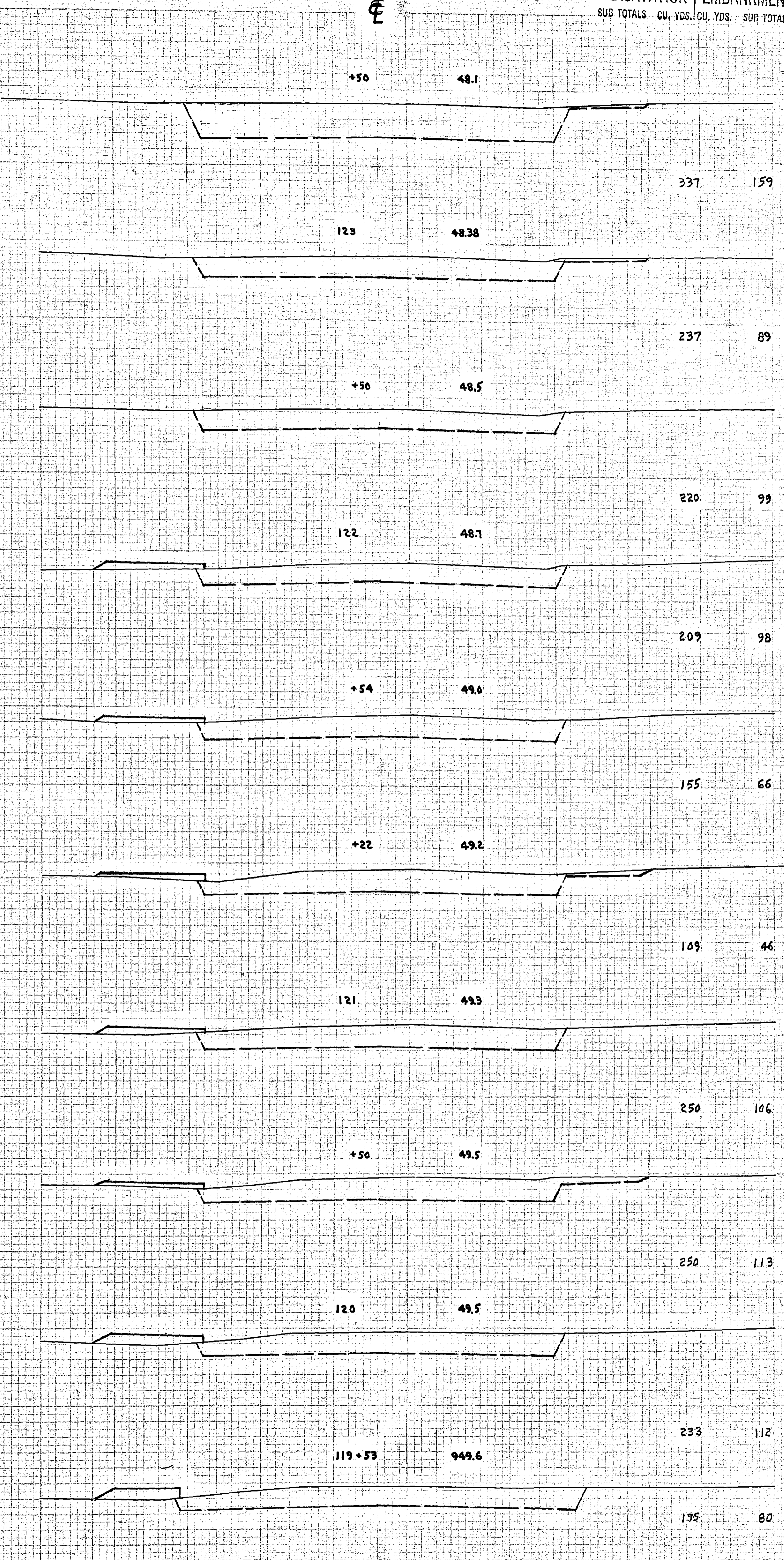
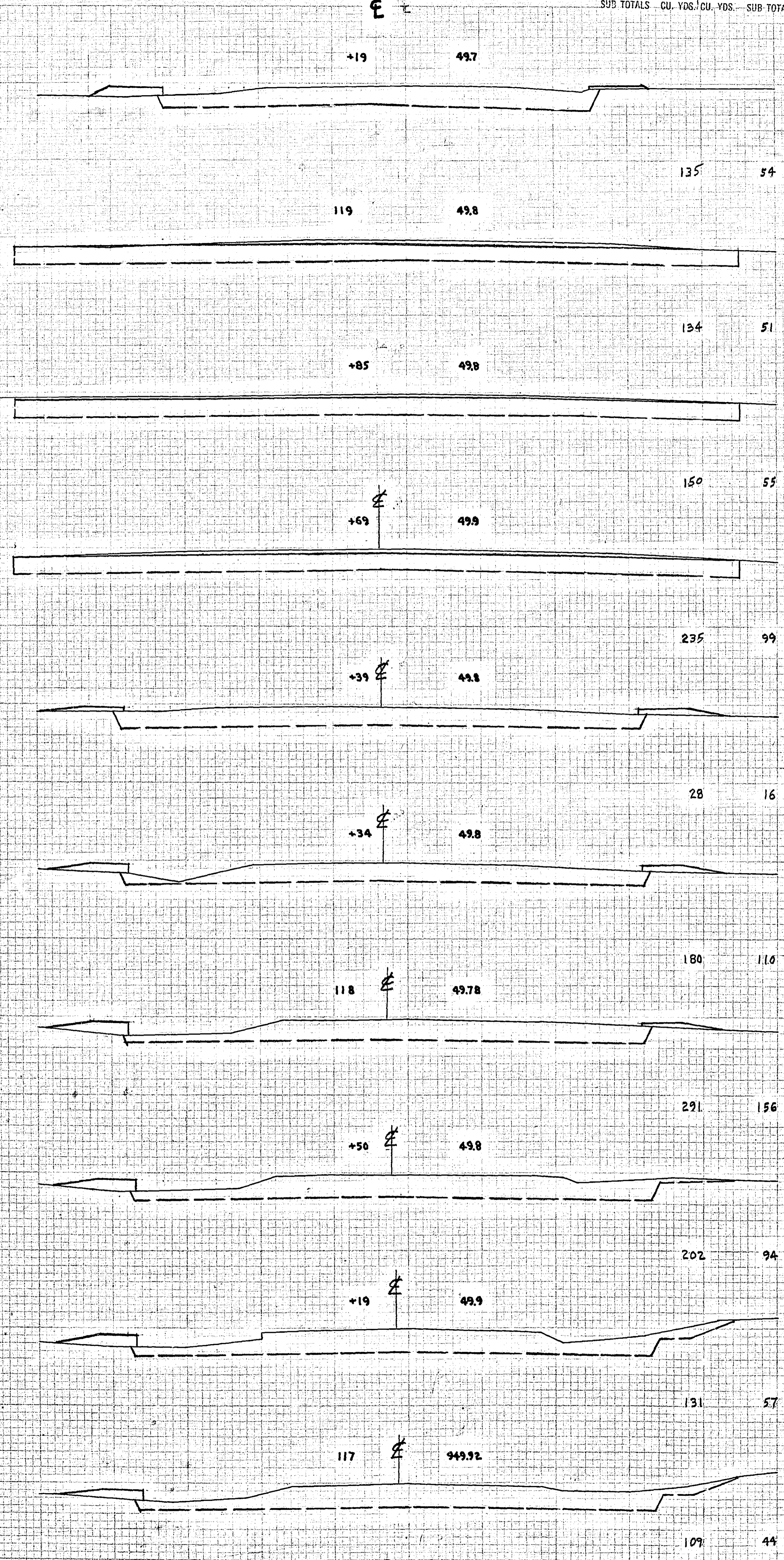
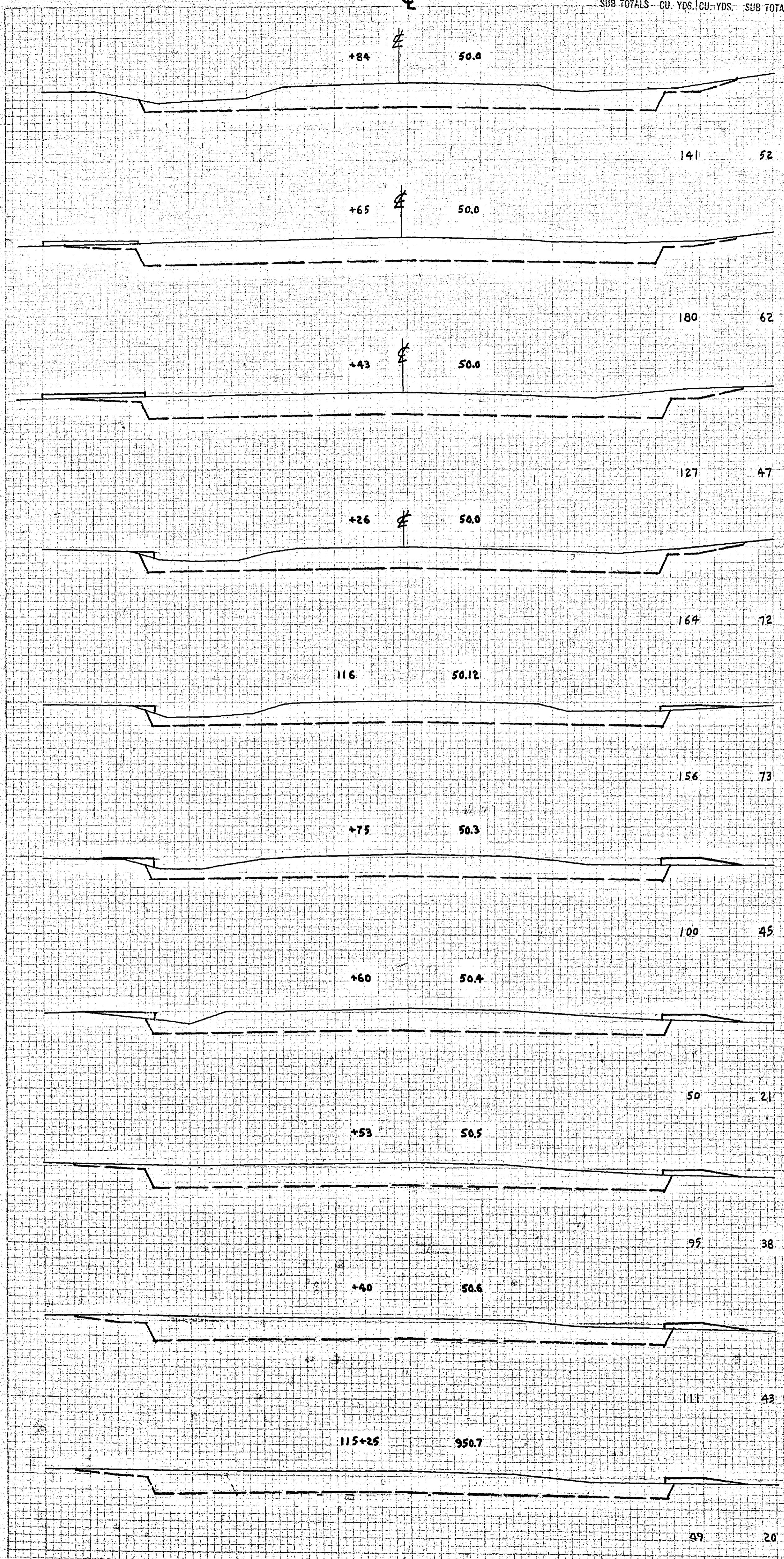
EXCAVATION | EMBANKMENT  
SUB. TOTALS - CU. YDS. | CU. YDS. - SUB TOTALS

STATION-ELEVATION

EXCAVATION | EMBANKMENT  
SUB. TOTALS - CU. YDS. | CU. YDS. - SUB TOTALS

STATION-ELEVATION

EXCAVATION | EMBANKMENT  
SUB. TOTALS - CU. YDS. | CU. YDS. - SUB TOTALS



CROSS SECTIONS

SCALE 1" = 10'



STATION-ELEVATION  
E

EXCAVATION | EMBANKMENT  
SUB TOTALS CU. YDS. | CU. YDS. | SUB TOTALS

STATION-ELEVATION  
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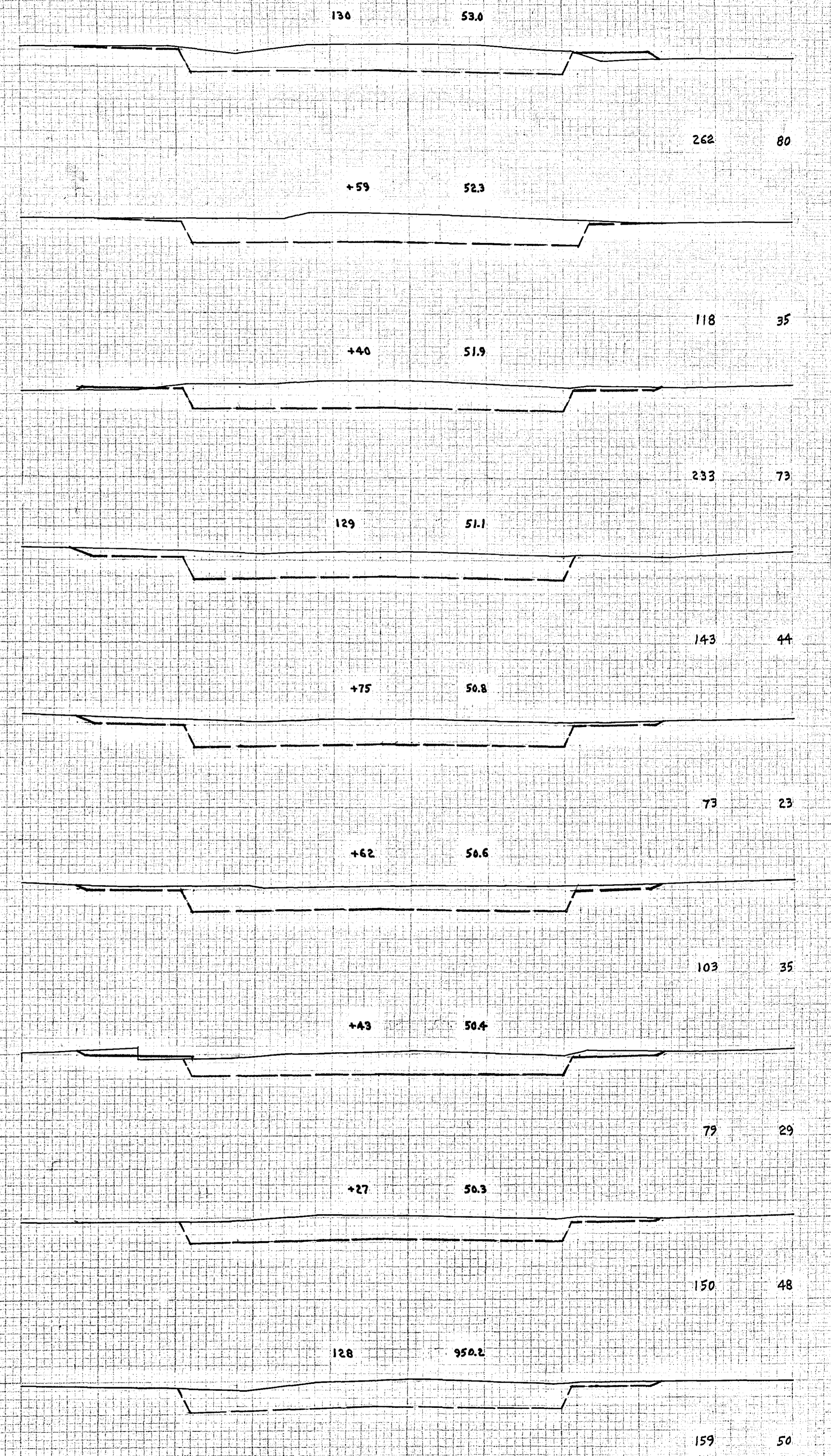
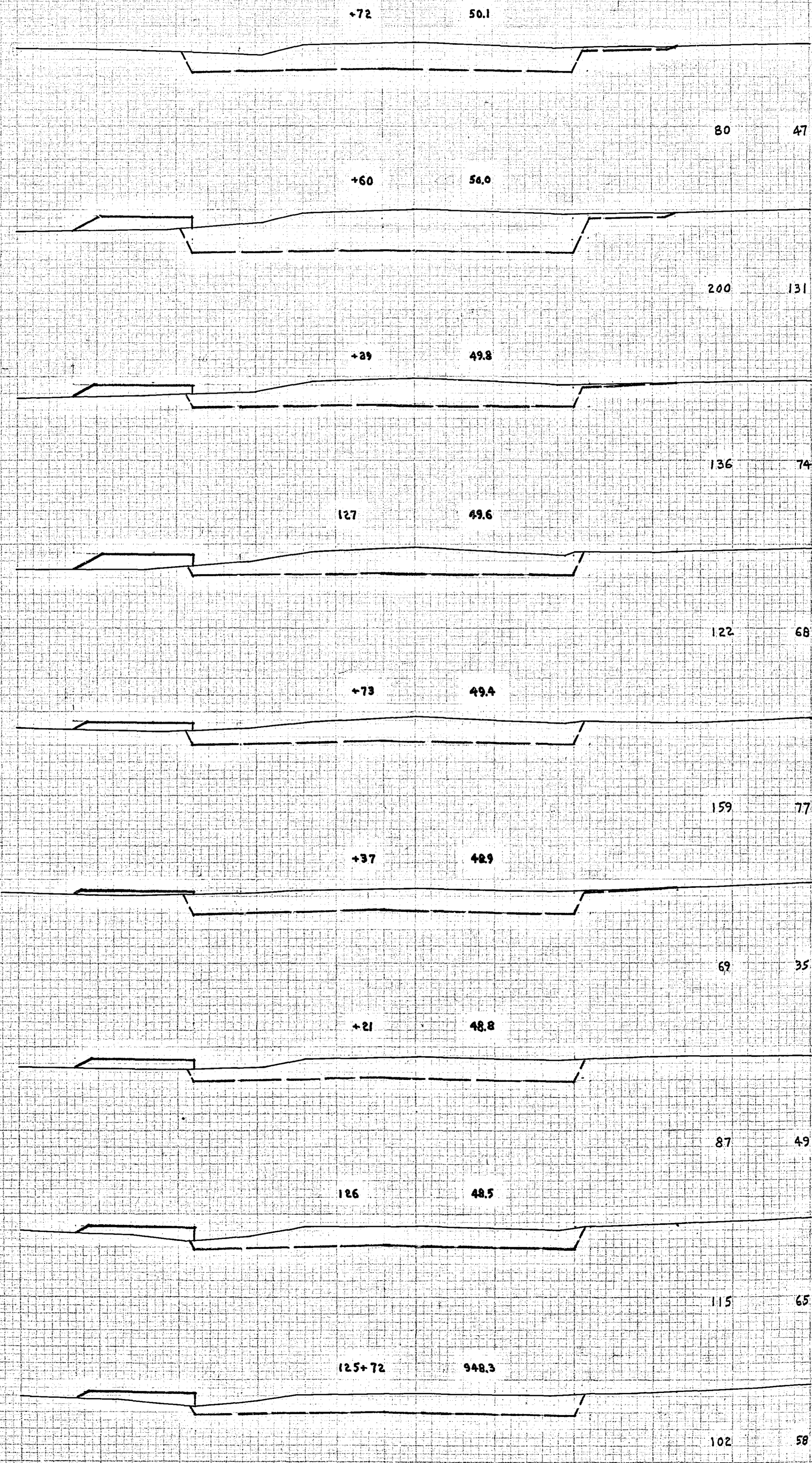
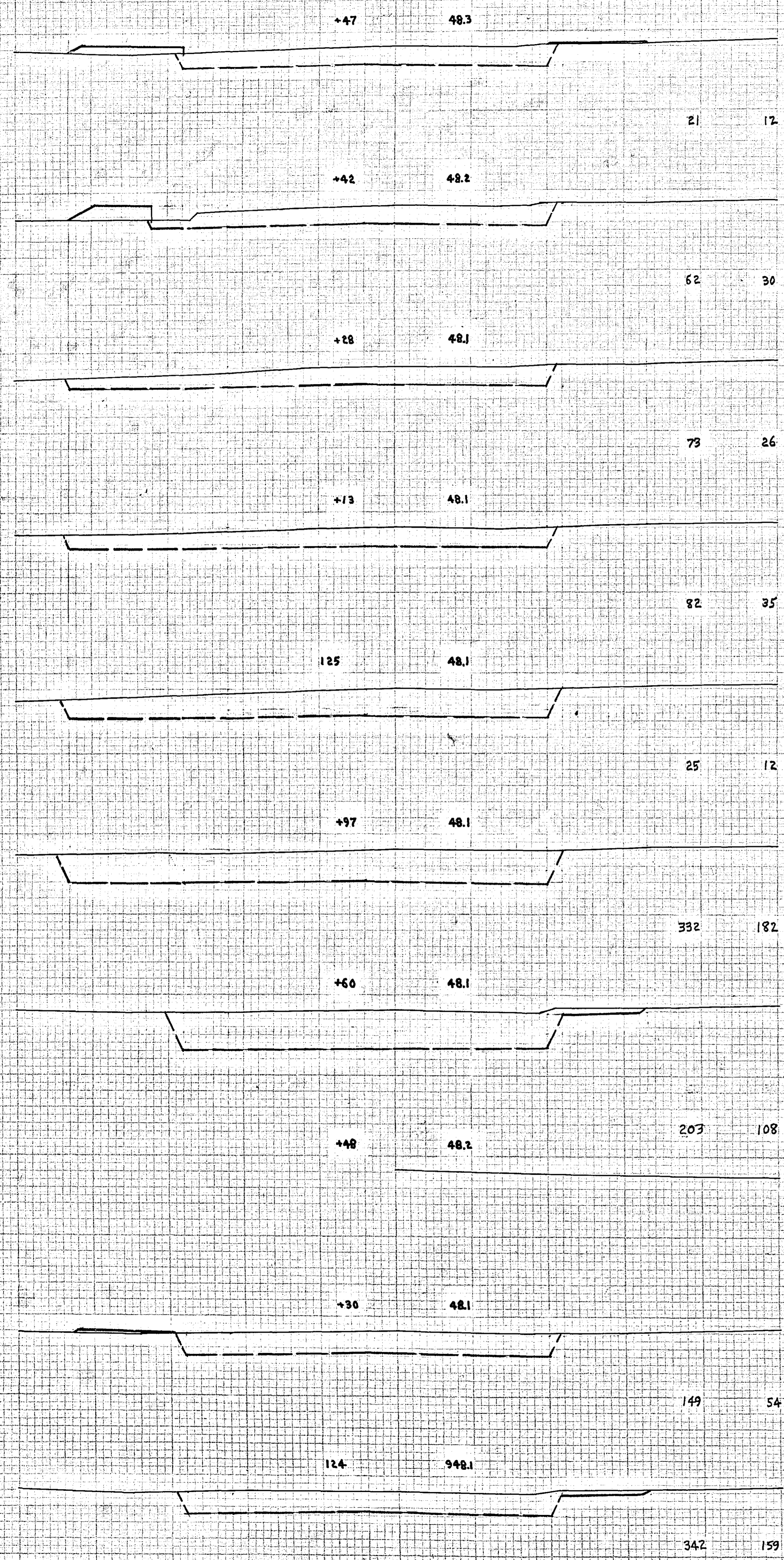
EXCAVATION | EMBANKMENT  
SUB TOTALS CU. YDS. | CU. YDS. | SUB TOTALS

STATION-ELEVATION  
E

EXCAVATION | EMBANKMENT  
SUB TOTALS CU. YDS. | CU. YDS. | SUB TOTALS

DATE: \_\_\_\_\_  
BY: \_\_\_\_\_  
CHECKED BY: \_\_\_\_\_  
APPROVED BY: \_\_\_\_\_

DATE: \_\_\_\_\_  
BY: \_\_\_\_\_  
CHECKED BY: \_\_\_\_\_  
APPROVED BY: \_\_\_\_\_



CROSS SECTIONS SCALE 1" = 10'



K-E STATION-ELEVATION

EXCAVATION | EMBANKMENT

ENTRANCES: 230 } 12,810 } 13,040 } 5,645 }  
CU. YDS. CU. YDS. CU. YDS. SUB TOTALS

132+02 55.8

131+84 55.5

+70 55.3

+50 55.1

131 54.6

+73 54.3

130+50 953.9

0 0

0 0

66 53

174 135

111 70

107 57

272 114

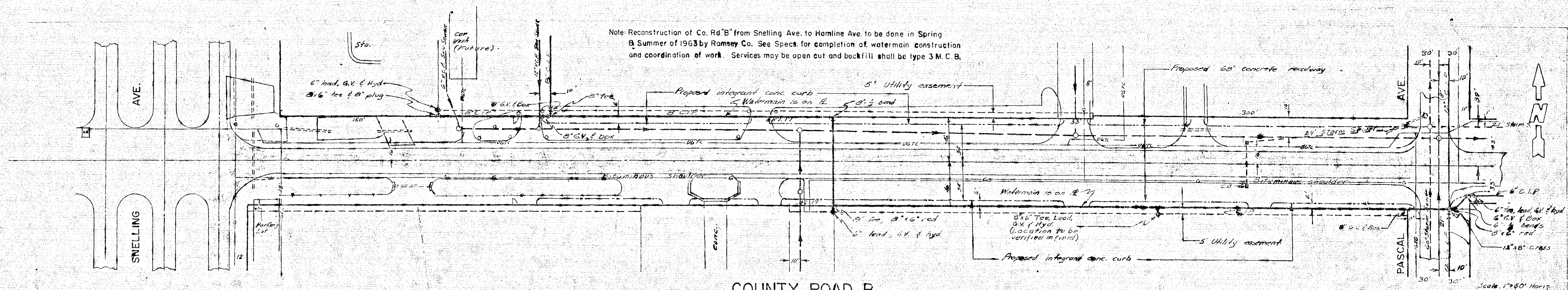
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PROJECT	
SHEET NO.	
TOTAL SHEETS	

DATE	
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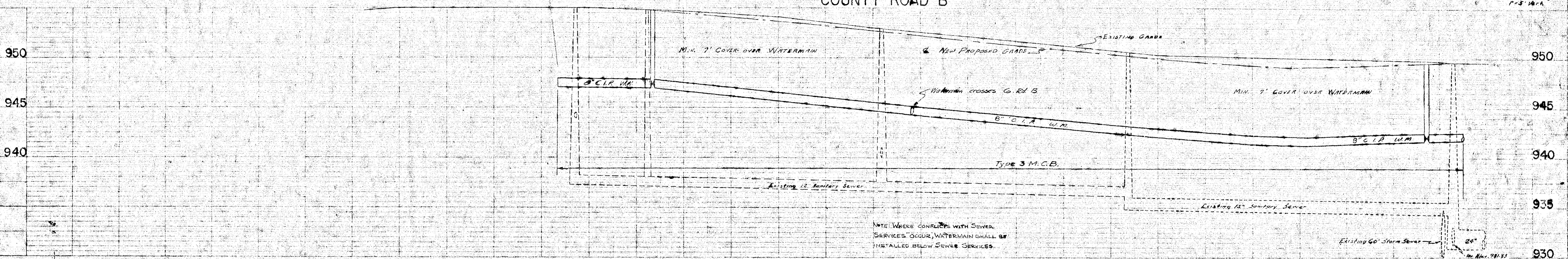
CROSS SECTIONS SCALE 1" = 10'



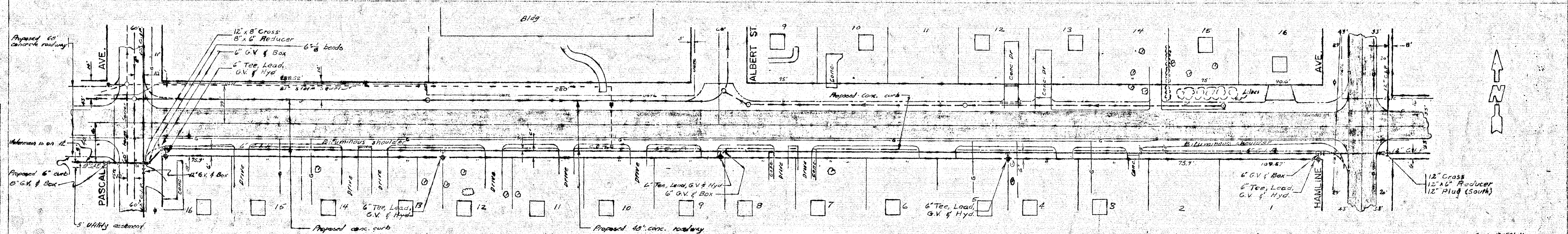
Note: Reconstruction of Co. Rd "B" from Snelling Ave. to Hamline Ave. to be done in Spring & Summer of 1963 by Ramsey Co. See Specs. for completion of watermain construction and coordination of work. Services may be open cut and backfill shall be type 3 M. C. B.



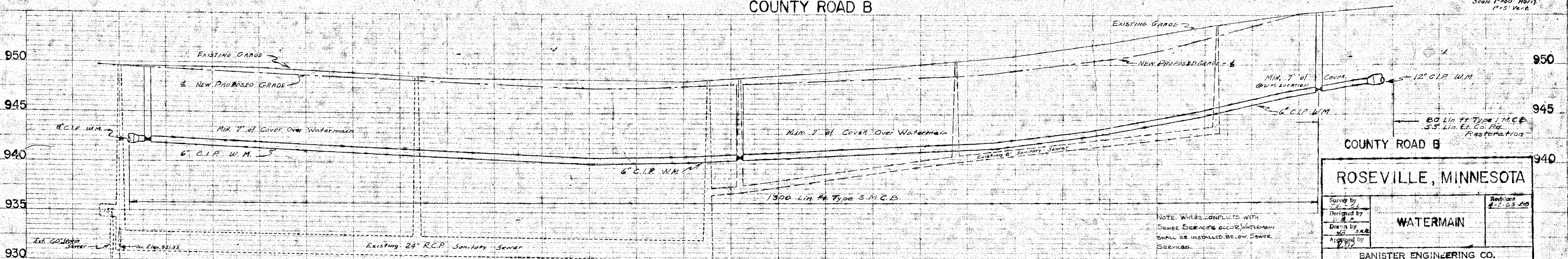
COUNTY ROAD B



NOTE: WHERE CONFLICTS WITH SEWER SERVICES OCCUR, WATERMAIN SHALL BE INSTALLED BELOW SEWER SERVICES.



COUNTY ROAD B



NOTE: WHERE CONFLICTS WITH SEWER SERVICES OCCUR, WATERMAIN SHALL BE INSTALLED BELOW SEWER SERVICES.

<p><b>ROSEVILLE, MINNESOTA</b></p>	
<p>Survey by DES-G</p>	<p>Revised by 4-2-63</p>
<p>Designed by DES-G</p>	<p>Checked by SMK</p>
<p>Drawn by SMK</p>	<p>Approved by DES-G</p>
<p><b>WATERMAIN</b></p>	
<p><b>BANISTER ENGINEERING CO.</b></p>	
<p>ST. PAUL, MINN.</p>	<p>JANUARY 4, 1963</p>
<p>SHEET 10 OF 44 SHEETS</p>	