













EXCAVATION EMBANKMENT

Subgrade      Subways

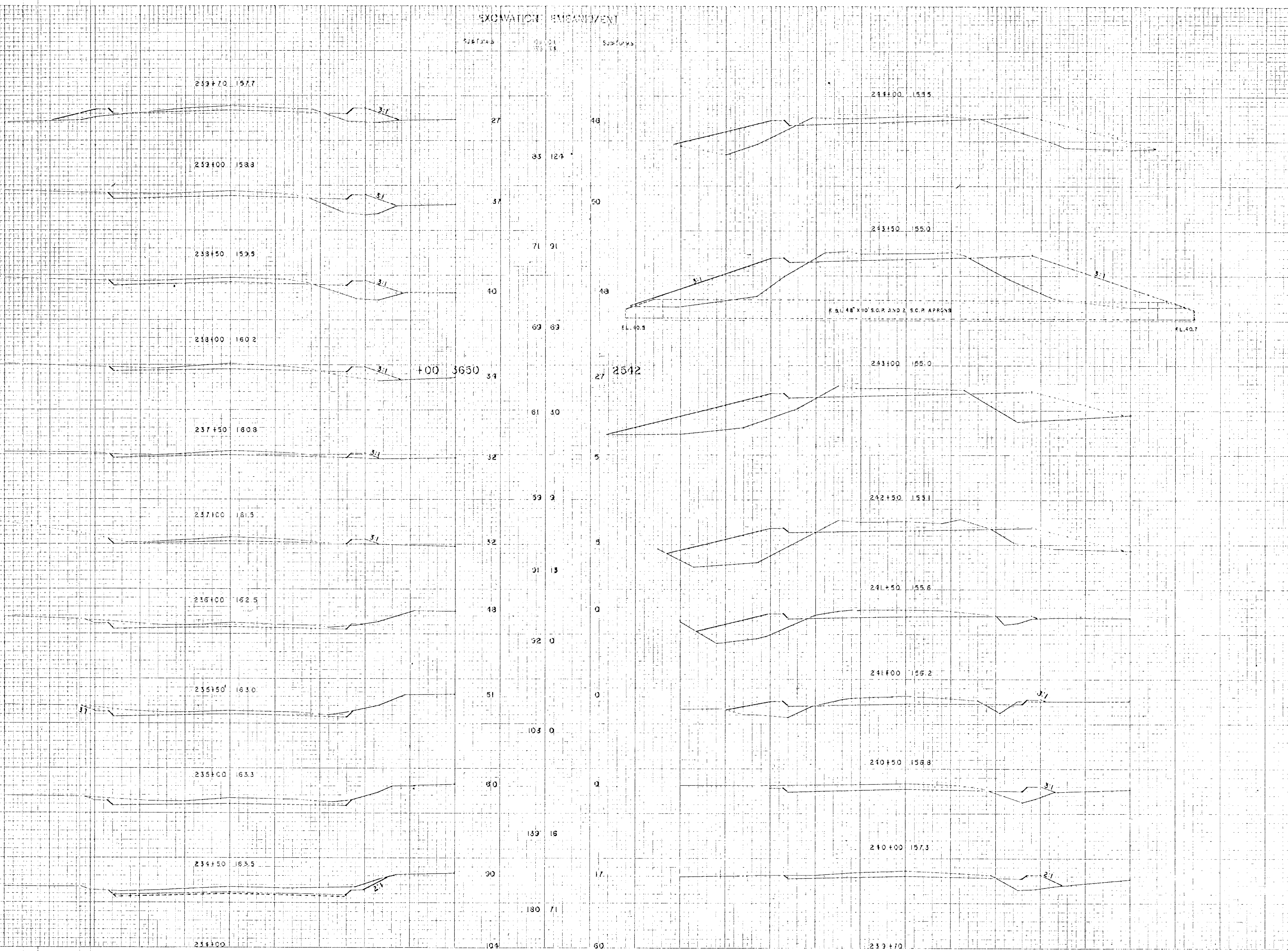


PLATE 3 - GROSS SECTION O.P.R. & E. STANGARD  
 BELFIELD - HENNER CO., NEW YORK  
 K & E CO. NO. 345-3



SURVEY FLIGHT  
NOTE BOOK 15501  
NO. 100

SURVEY FLIGHT  
NOTE BOOK 15501  
NO. 100

EXCAVATION

EMBANKMENT

Sta. Totals 100 9669

234+00 1638

Sta. Totals 100 9669

100 9669 133 150 6376

223+00 1646

233+50 1639

104 217 125

223+50 1644

305 236

233+00 1639

134 255 163

228+00 1642

214 153

232+50 1638

115 262 191

227+61 1643

436 232

232+00 1638

136 273 206

227+00 1638

214 156

231+50 1640

155 303 243

226+50 1635

343 220

231+00 1640

175 317 272

225+00 1634

234 143

230+50 1637

189 305 231

225+60 1631

517 333

230+00 1639

160 311 232

225+00 1623

224 143

229+50 1643

176 326 313

224+50 1624

403 213

229+00

176 312 305

224+00

213 143

413 275

235 143

350 219

212 147

163 323

209 143

336 271

203 145

333 237

218 165

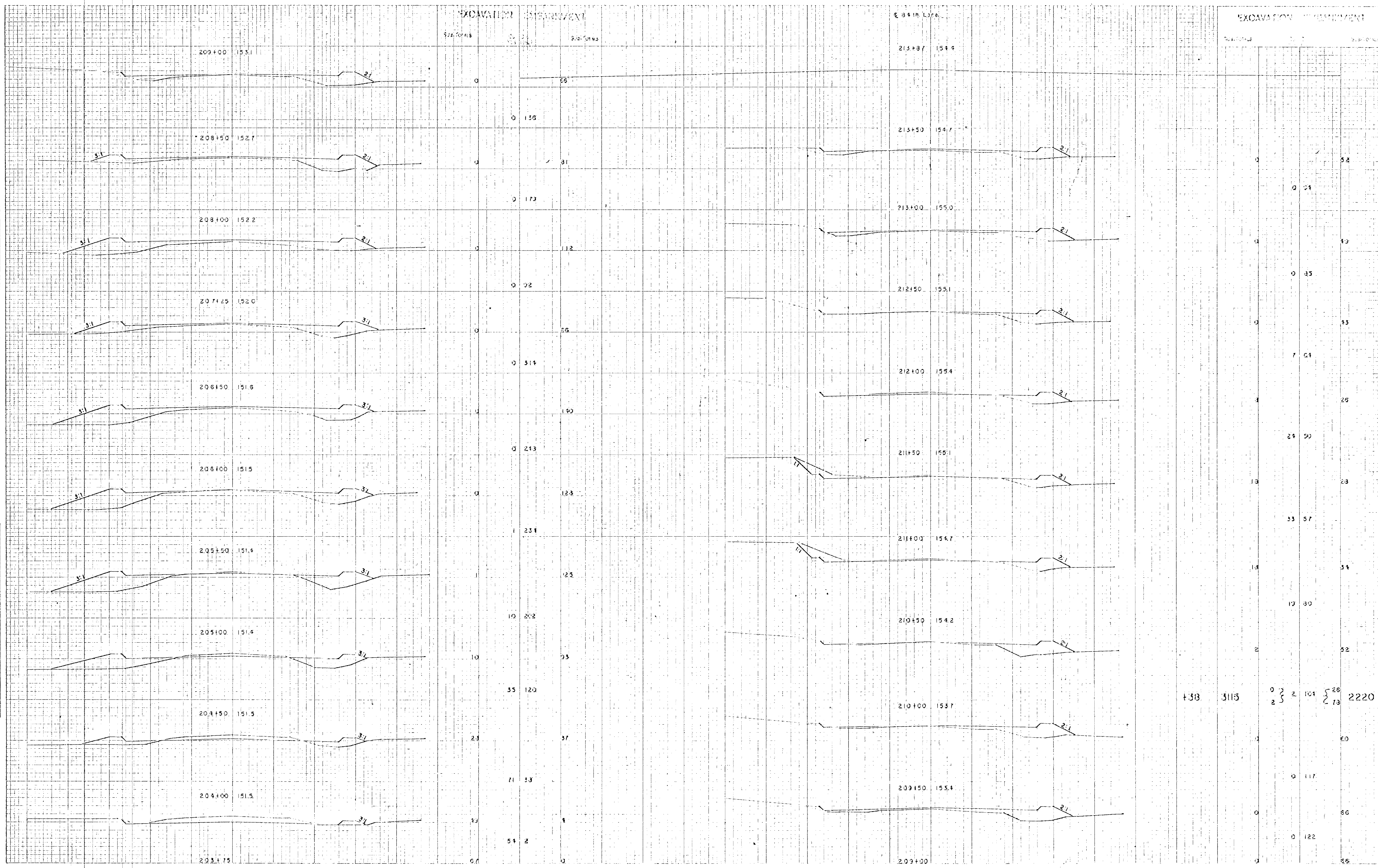




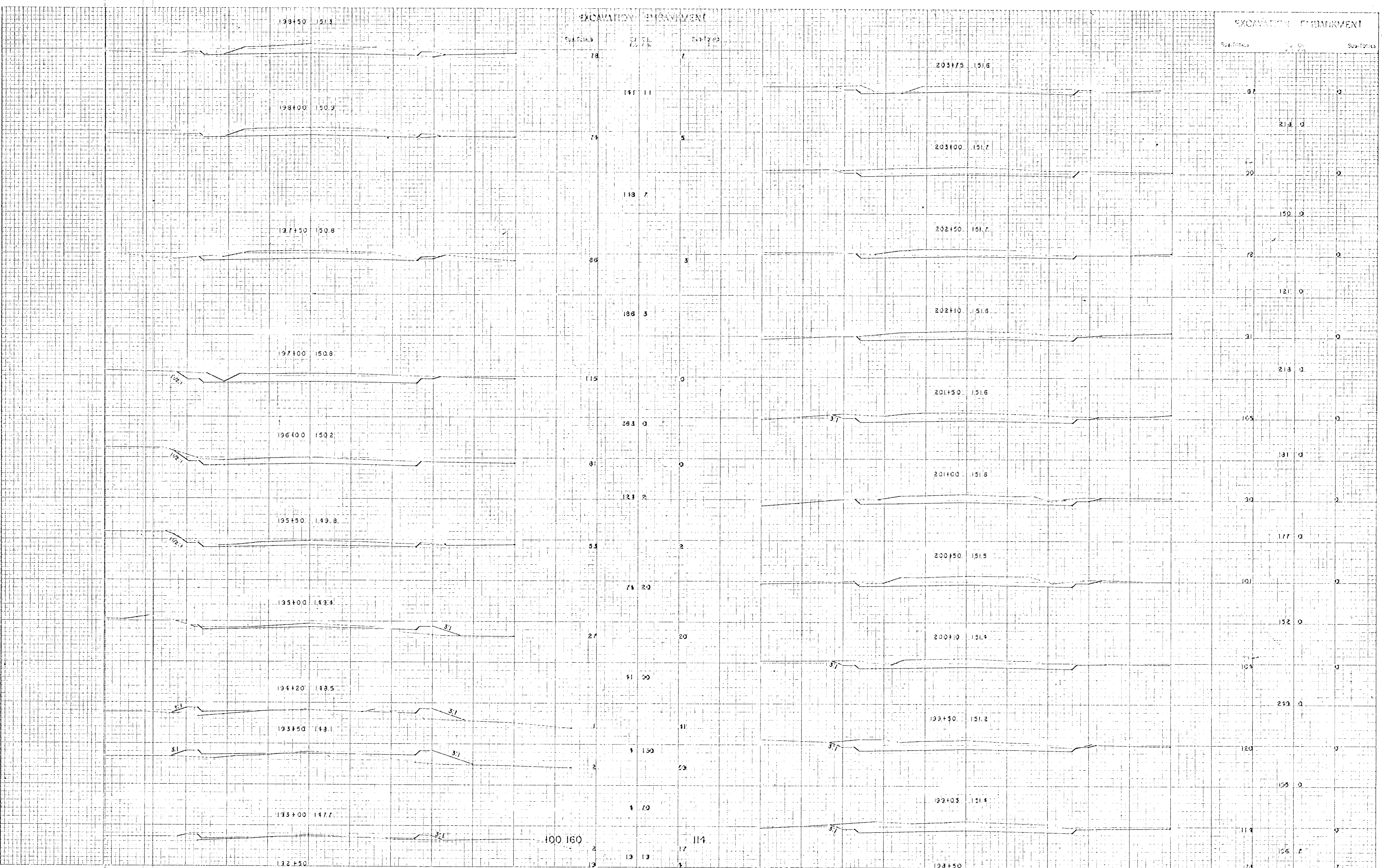


NOTE BOOK NO. 101-111  
 DATE 10/15/1915  
 DRAWN BY J. H. B. (initials)

NOTE BOOK NO. 101-111  
 DATE 10/15/1915  
 DRAWN BY J. H. B. (initials)







199+50 151.3

198+00 150.9

197+50 150.8

197+00 150.8

196+00 150.2

195+50 149.8

195+00 149.4

194+20 148.5

193+50 148.1

193+00 147.7

192+50

EXCAVATION EMBANKMENT

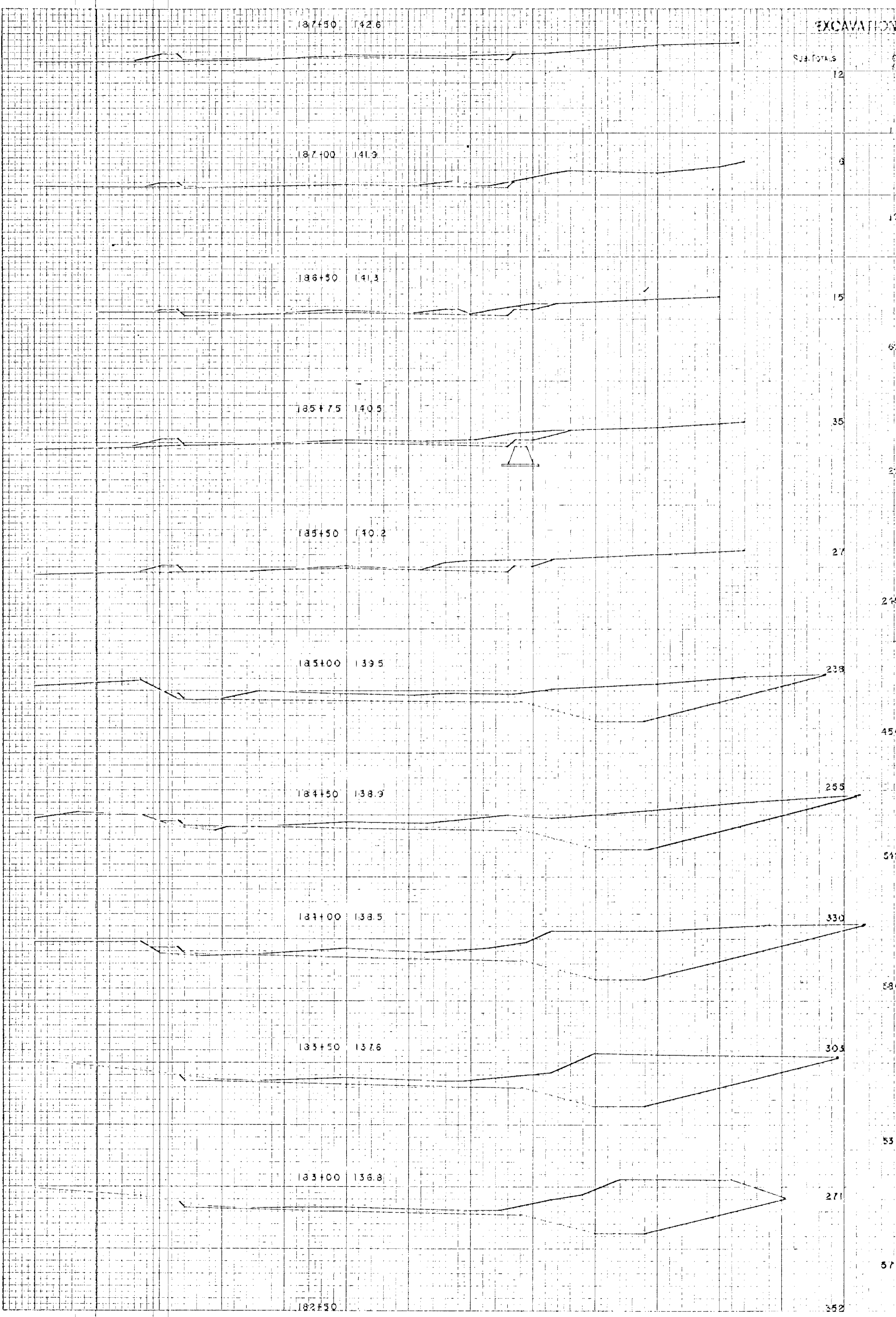
Stationing	Elevation	Stationing	Elevation
199+50	151.3	203+75	151.6
198+00	150.9	203+00	151.7
197+50	150.8	202+50	151.7
197+00	150.8	202+10	151.6
196+00	150.2	201+50	151.6
195+50	149.8	201+00	151.6
195+00	149.4	200+50	151.5
194+20	148.5	200+10	151.4
193+50	148.1	199+50	151.2
193+00	147.7	199+00	151.4
192+50		198+50	151.4

EXCAVATION EMBANKMENT

Stationing	Elevation	Stationing	Elevation
203+75	151.6	193+50	151.2
203+00	151.7	193+00	151.4
202+50	151.7	192+50	151.4
202+10	151.6		
201+50	151.6		
201+00	151.6		
200+50	151.5		
200+10	151.4		
199+50	151.4		
198+50	151.4		

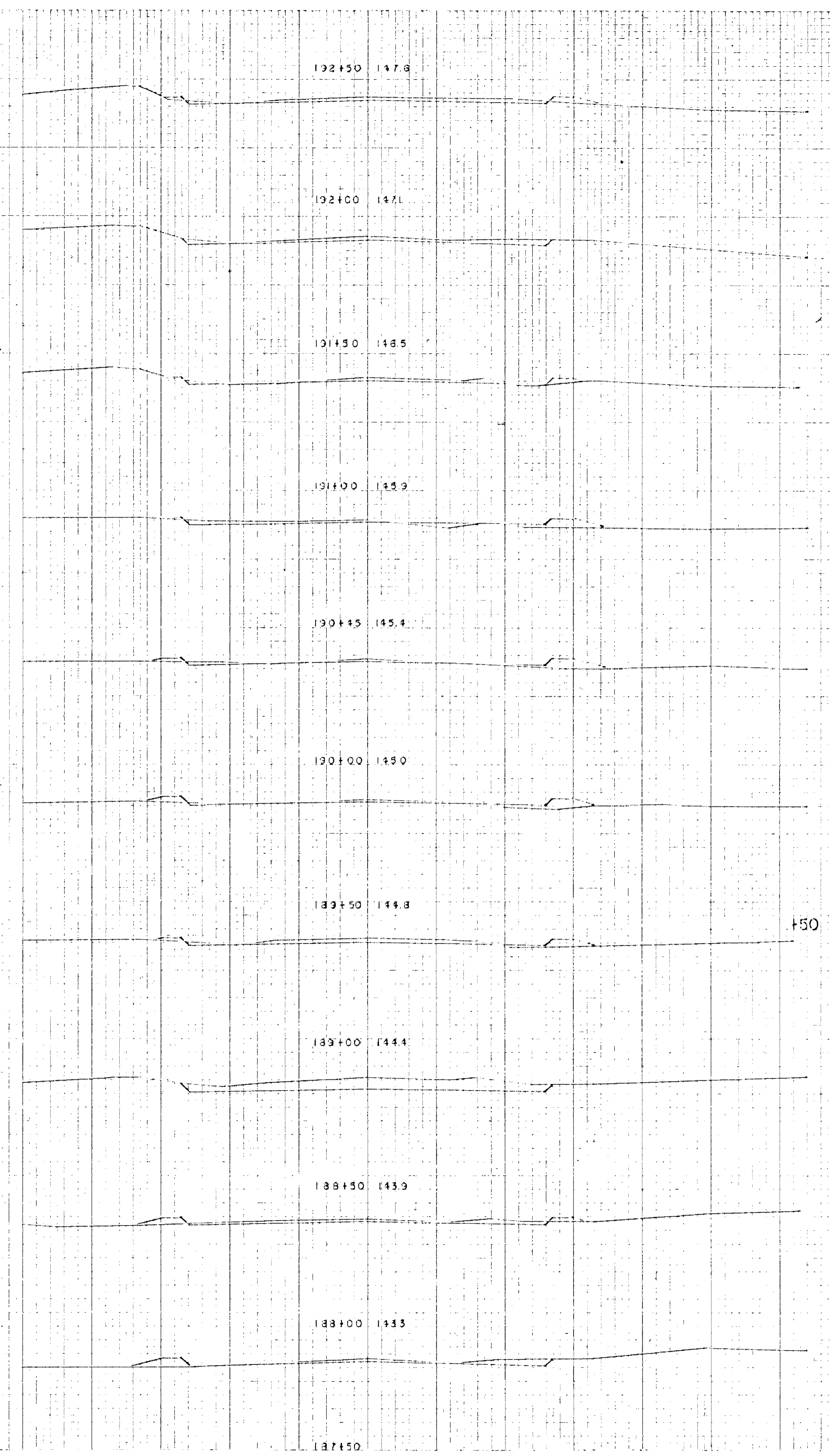
PLATE 2 CROSS SECTION OF R.R. E. STANDARD  
 KELFEL & FESSER CO. NEW YORK  
 K & F CO. No. 348-B





EXCAVATION EMBANKMENT

Station	Excavation	Embankment
187+50	12	11
187+00	17	13
186+50	8	3
185+75	19	1
185+50	15	1
185+00	69	10
184+50	35	8
184+00	29	5
183+50	27	5
183+00	26	6
182+50	238	1
182+00	455	6
181+50	255	5
181+00	512	3
180+50	330	5
180+00	588	8
179+50	309	0
179+00	531	0
178+50	271	0
178+00	577	0
177+50	252	0



EXCAVATION EMBANKMENT

Station	Excavation	Embankment
192+50	19	4
192+00	11	1
191+50	23	0
191+00	35	3
190+45	10	3
190+00	19	17
189+50	11	15
189+00	16	27
188+50	5	12
188+00	5	22
187+50	2	18
187+00	21	22
186+50	150	8890
186+00	21	6351
185+50	85	9
185+00	71	0
184+50	33	3
184+00	24	6
183+50	37	11
183+00	18	6
182+50	26	16
182+00	12	11

PLATE 3. CROSS SECTION O.R.R. & STANDARD  
 KEUFFEL & ESSER CO., NEW YORK.  
 K & E CO. NO. 2453



EXCAVATION BANKMENT

Sub-Station	Excavation	Bankment
552		0
552	922	10
552		31
553	331	123
553		130
553	553	554
271		103
497		821
268		179
502		892
278		134
500		913
261		502

182+50 135.2

181+80 135.0

181+50 134.7

181+00 133.7

180+50 133.1

180+00 132.6

179+50

3:1

EL. 120

EL. 24

5' x 72" x 138" BEAM AND 2 S.C. PARAPETS

PLATE 3 - CROSS SECTION O.P. & R.E. STANDARD  
 KEUTTEL & ISSER CO., NEW YORK  
 K & E CO. NO. 3453



EXCAVATION EMBANKMENT

Sta. Totals	Exc. Cu.	Sub. Tot.
234	130	302
237	173	330
251	303	393
262	223	415
113	78	213
113	223	315
113	165	222
113	262	385
113	113	226
113	113	226

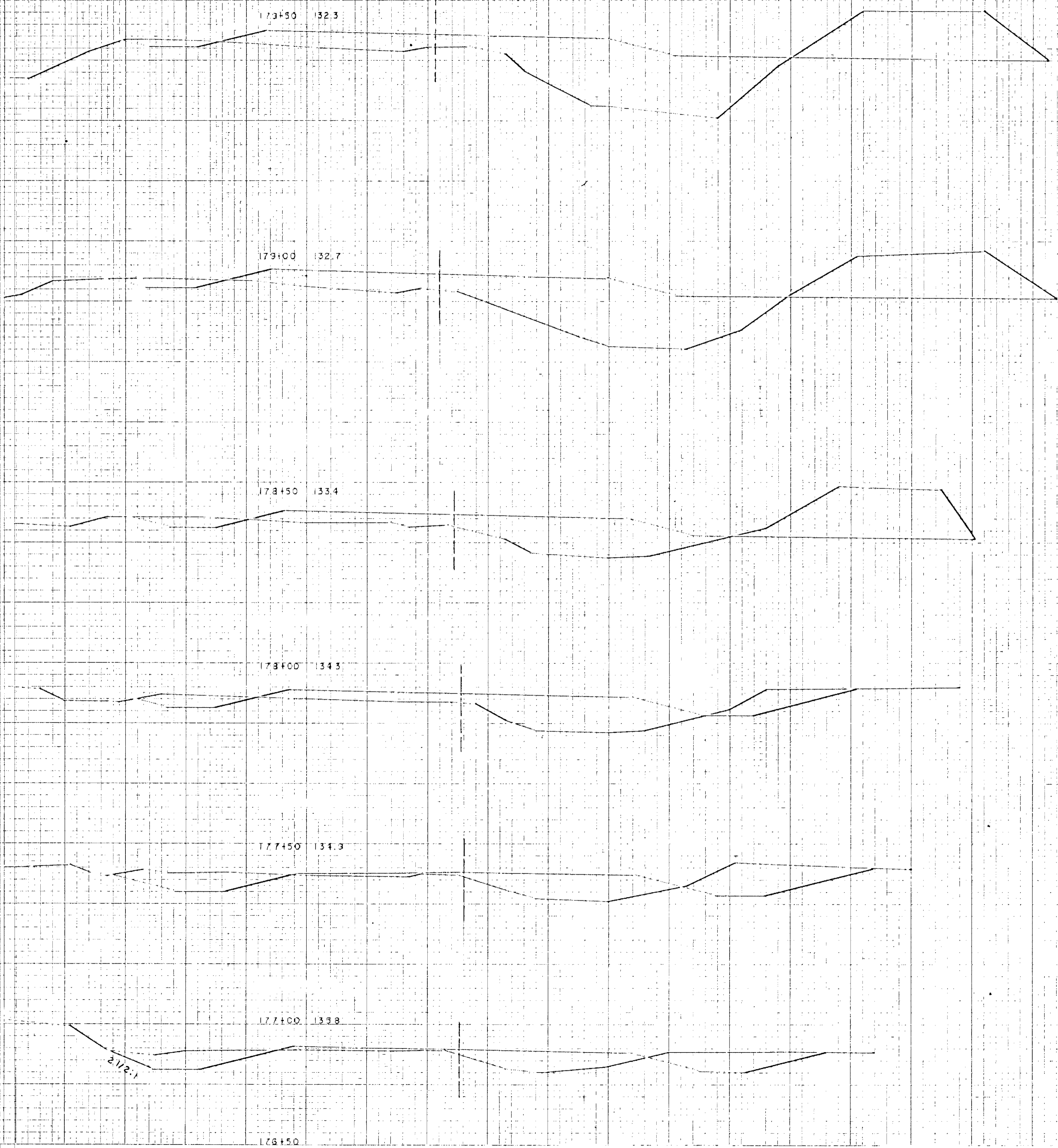
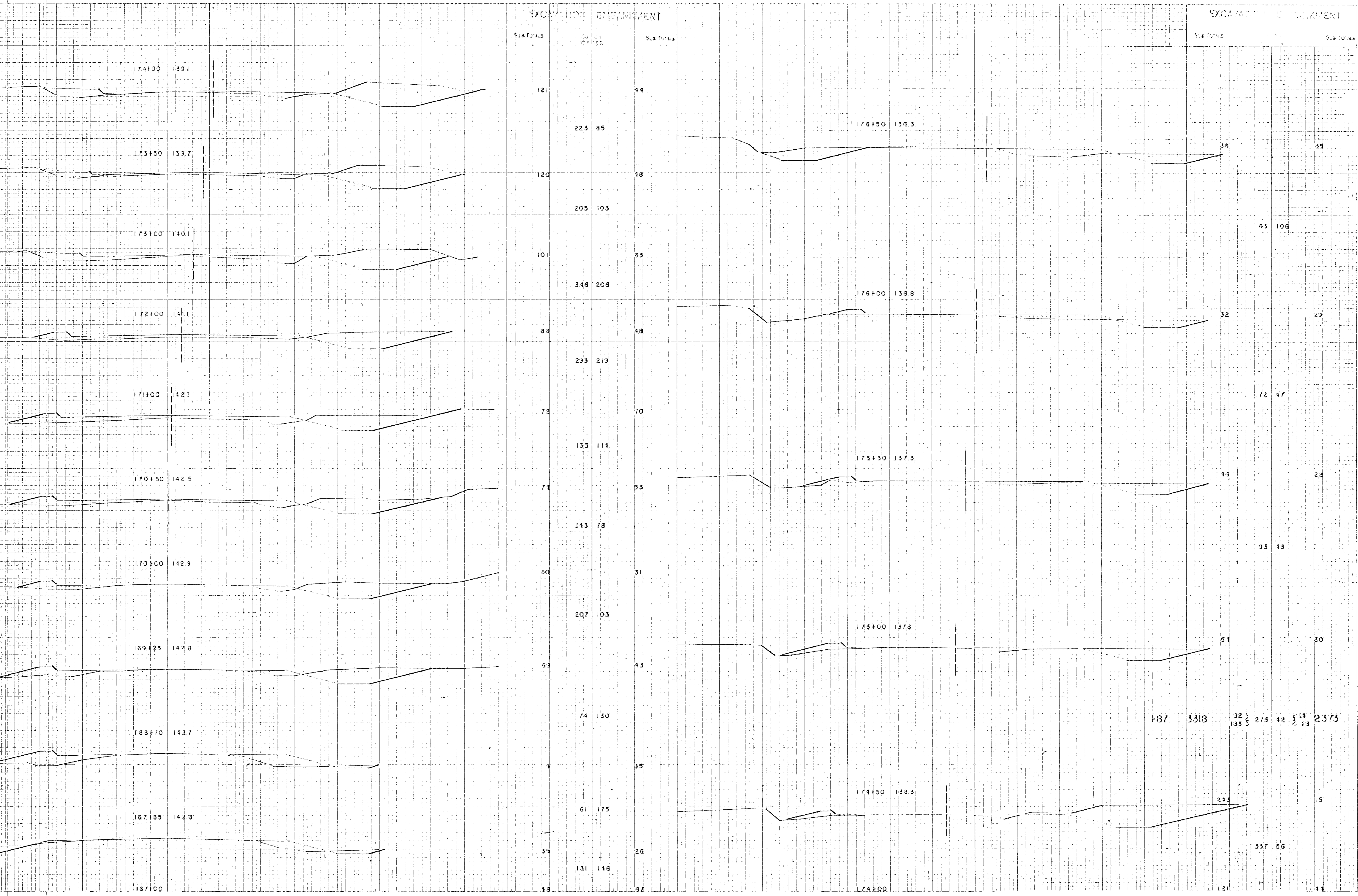


PLATE 3 - CROSS SECTION O.P.R. & E. STANDARD  
 KEUPEL & FISLER CO., NEW YORK  
 K & F CO. NO. 3453





EXCAVATION EMBANKMENT

EXCAVATION EMBANKMENT

Station	Excavation	Embankment
174+00	133.1	121
173+50	133.7	223 85
173+00	140.1	120 205 103
172+00	141.1	101 346 206
171+00	142.1	88 233 219
170+50	142.5	73 135 114
170+00	142.9	71 143 73
169+25	142.8	60 207 103
168+70	142.7	63 74 130
167+85	142.8	61 175
167+00		35 131 148
167+00		18 92

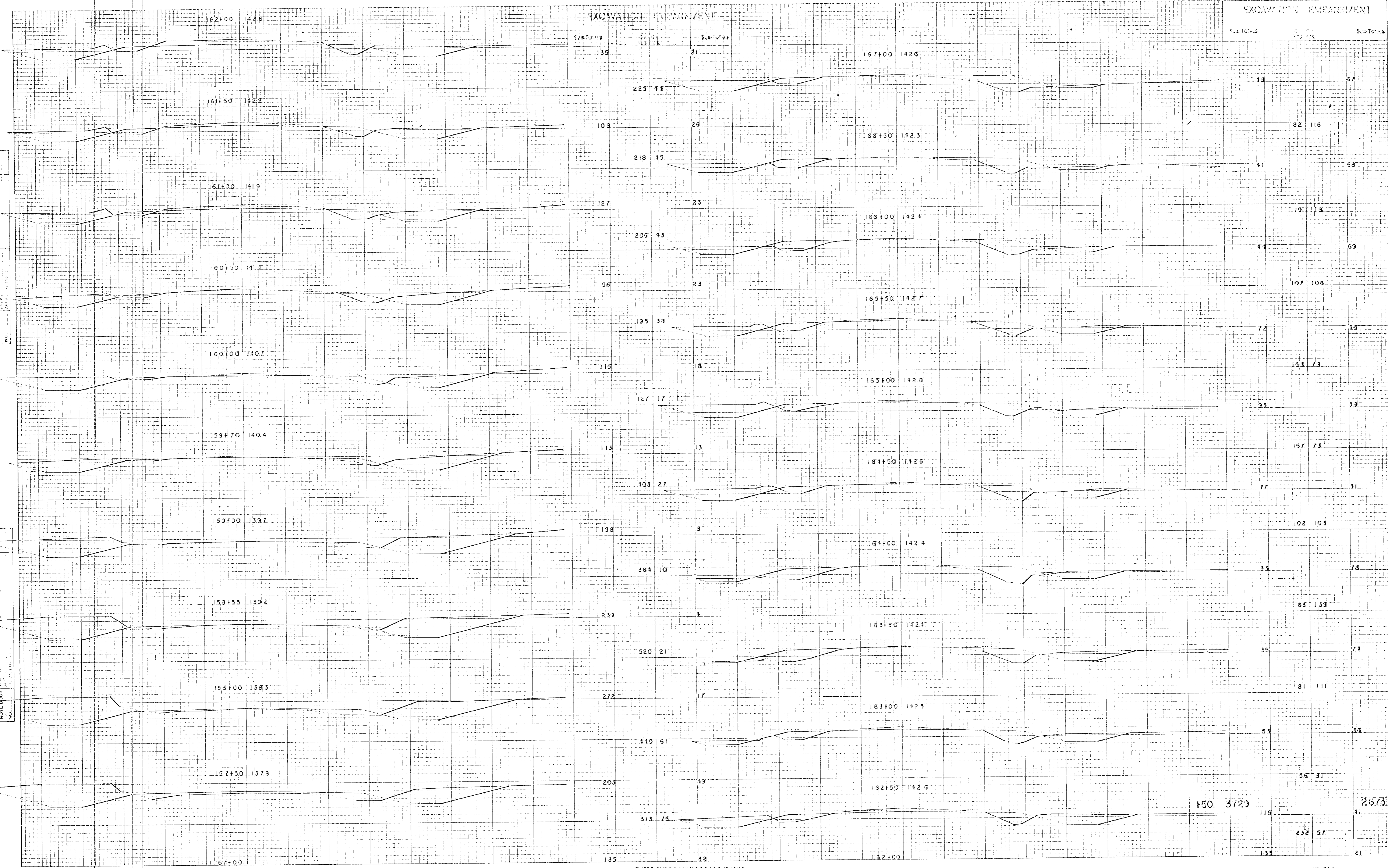
Station	Excavation	Embankment
176+50	136.3	36 35
176+00	136.8	63 106
175+50	137.3	32 23
175+00	137.8	72 47
174+50	138.3	18 22
174+00	137.8	93 13
174+00	137.8	51 30
174+00	138.3	437 3318 323 275 42 23 2375
174+00	138.3	245 15
174+00	138.3	337 55
174+00	138.3	11

PLATE 3 - CROSS SECTION O.P.R. & R.E. STANDARD  
 NEUFEL & SUTHER CO., NEW YORK.  
 K & E CO. NO. 345-B



FINAL SURVEY  
 NOTE: NO. 1000

ORIGINAL SURVEY  
 NOTE: NO. 1000



EXCAVATION EMBANKMENT

Sub-Totals	Excavation	Embankment
48	32	16
41	19	22
44	102	108
72	153	73
33	157	73
77	102	103
35	63	133
35	81	111
55	155	31
118	150	3723
133	232	57
135	2673	21

PLATE 3 CROSS SECTION OF R.R. E. STANDARD  
 KEW-FIELD & ISSUED CO. N.Y. 1910  
 K & E CO. NO. 2453



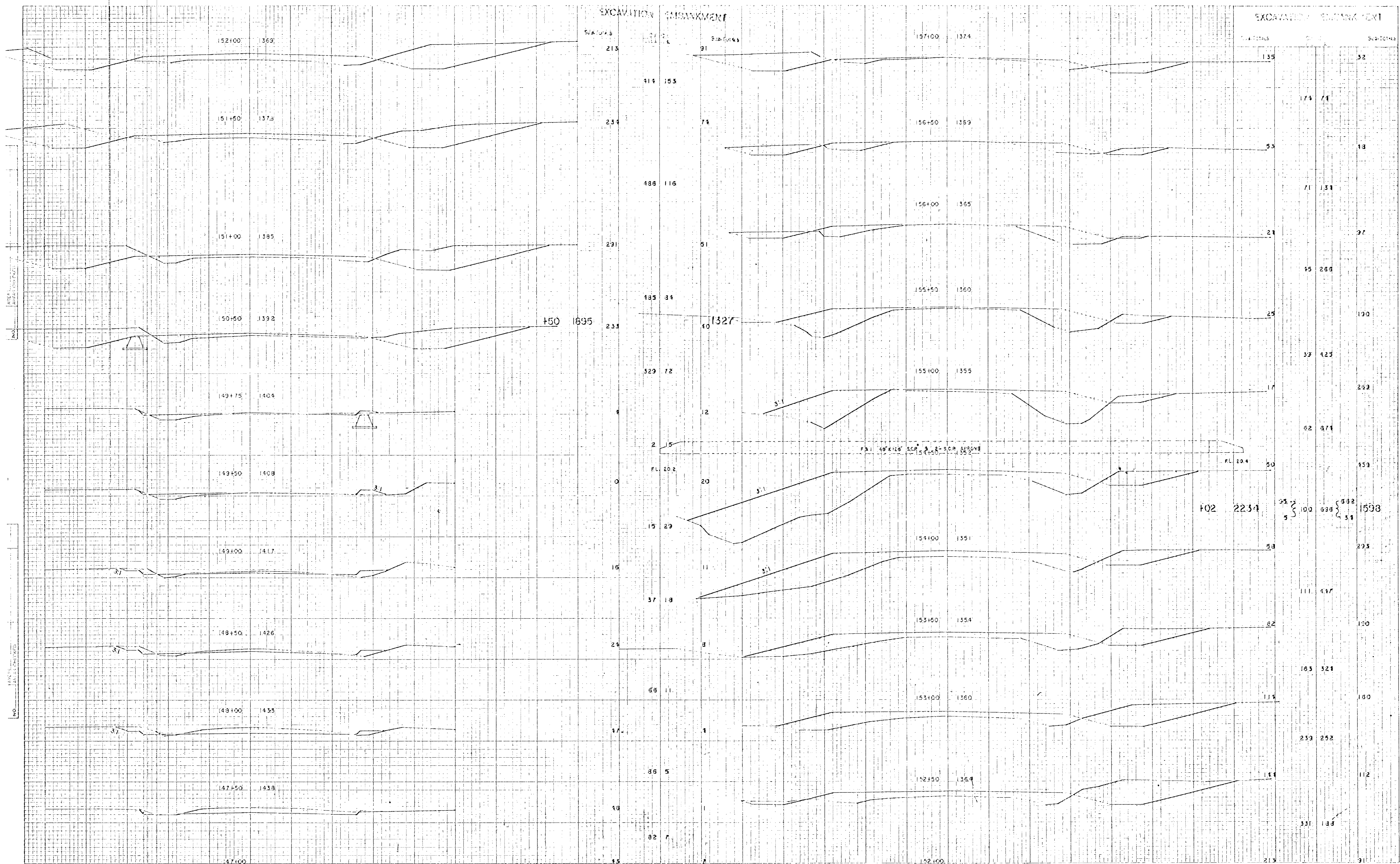
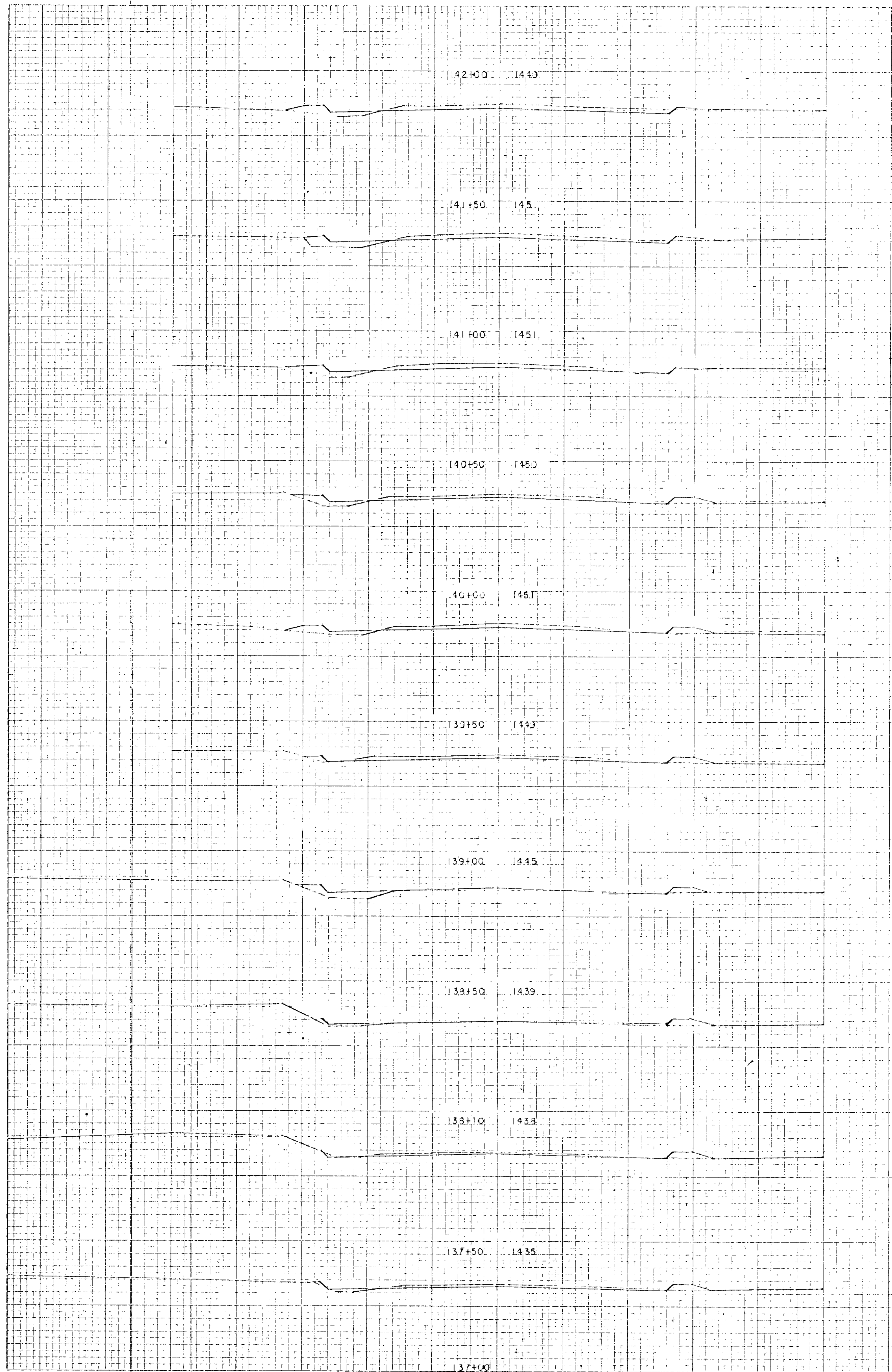


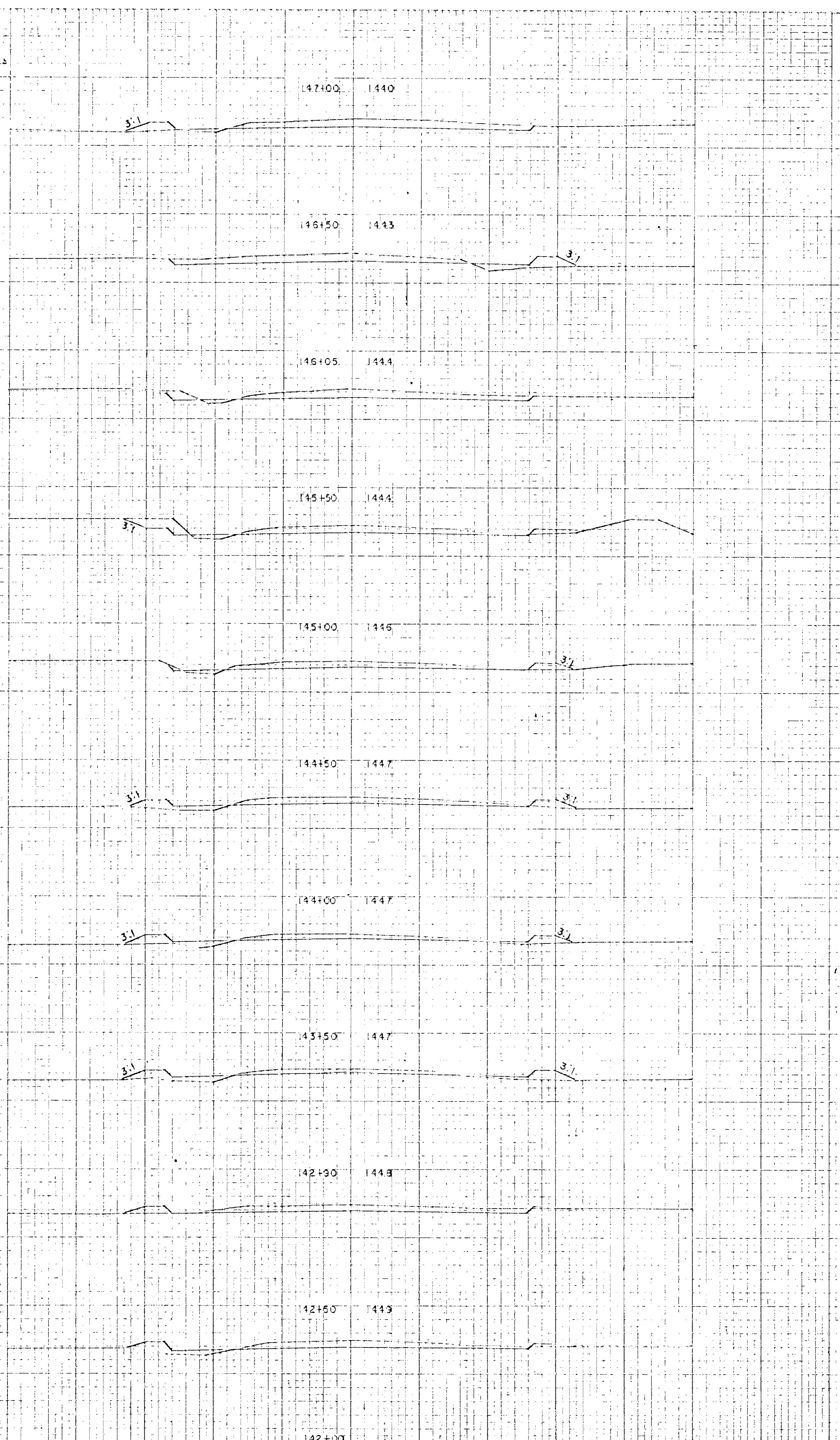
PLATE 3 - CROSS SECTION O.P.R. & E. STANDARD  
 KEUFEL & ESSELER CO., NEW YORK  
 K & E CO. NO. 2453





EXCAVATION EMBANKMENT

Station	Excavation	Embankment
142+00	30	12
141+50	18 23	
141+00	22	13
140+50	41 22	
140+00	22	11
139+50	41 19	
139+00	22	10
138+50	32 22	
138+10	13	14
137+50	20 16	
137+00	19	3
	18 18	
	0	16
	0 22	
	0	8
	7 8	
	10	5
	20 10	
	3	6
	3 12	
	2	7



EXCAVATION EMBANKMENT

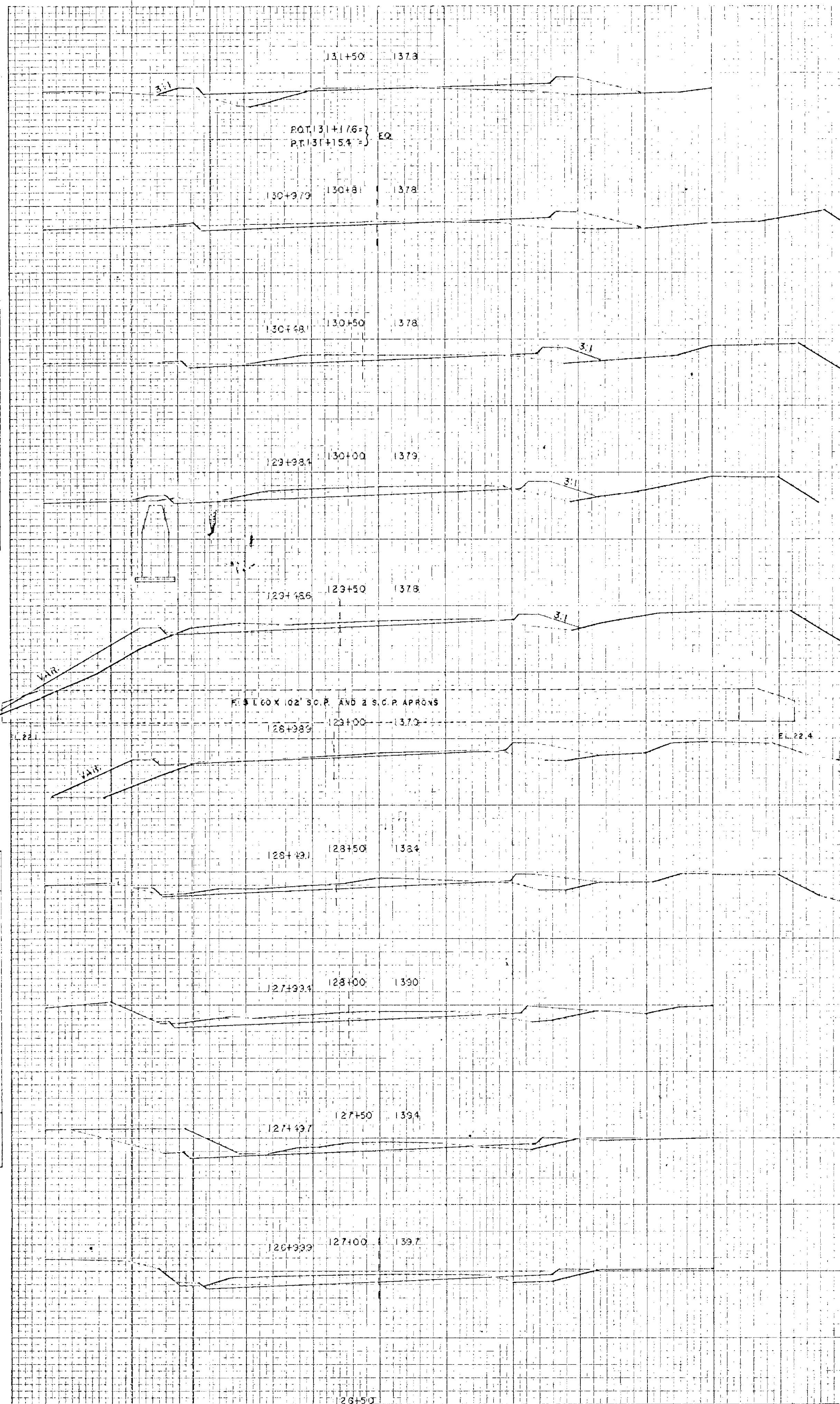
Station	Excavation	Embankment
147+00	43	7
146+50	75 20	
146+00	33	15
145+50	97 13	
145+00	11	1
144+50	79 7	
144+00	37	8
143+50	55 13	
143+00	22	3
142+50	16 21	
142+00	28	18
	11 31	
	20	19
	35 36	
	13	20
	54 31	
	31	3
	11 18	
	23	16
	51 23	
	10	12

PLATE 3. CROSS SECTION O.R.R. & STANDARD  
 NEWELL & ESSER CO., NEW YORK.  
 K & E CO. NO. 3453



NOTE BOOK NO. 1007

NOTE BOOK NO. 1007



STATION	EXCAVATION	EMBANKMENT
131+50		
130+97.0		
130+81		
130+50		
130+48		
129+93.4		
129+50		
128+93.4		
128+50		
128+49.1		
127+93.4		
127+50		
127+49.7		
127+00		
126+99.9		
126+50		



STATION	EXCAVATION	EMBANKMENT
137+00		
136+50		
136+00		
135+50		
135+00		
134+40		
134+00		
133+00		
132+75		
132+25		
131+50		

130 369 18 2 25 5 43 144 558 267 228

100 1007 43 14 792



FINAL SURVEY SHEET  
 NOTE: BEGINS AT STATION 116+50  
 NO. 1

ORIGINAL SURVEY SHEET  
 NOTE: BEGINS AT STATION 116+50  
 NO. 1

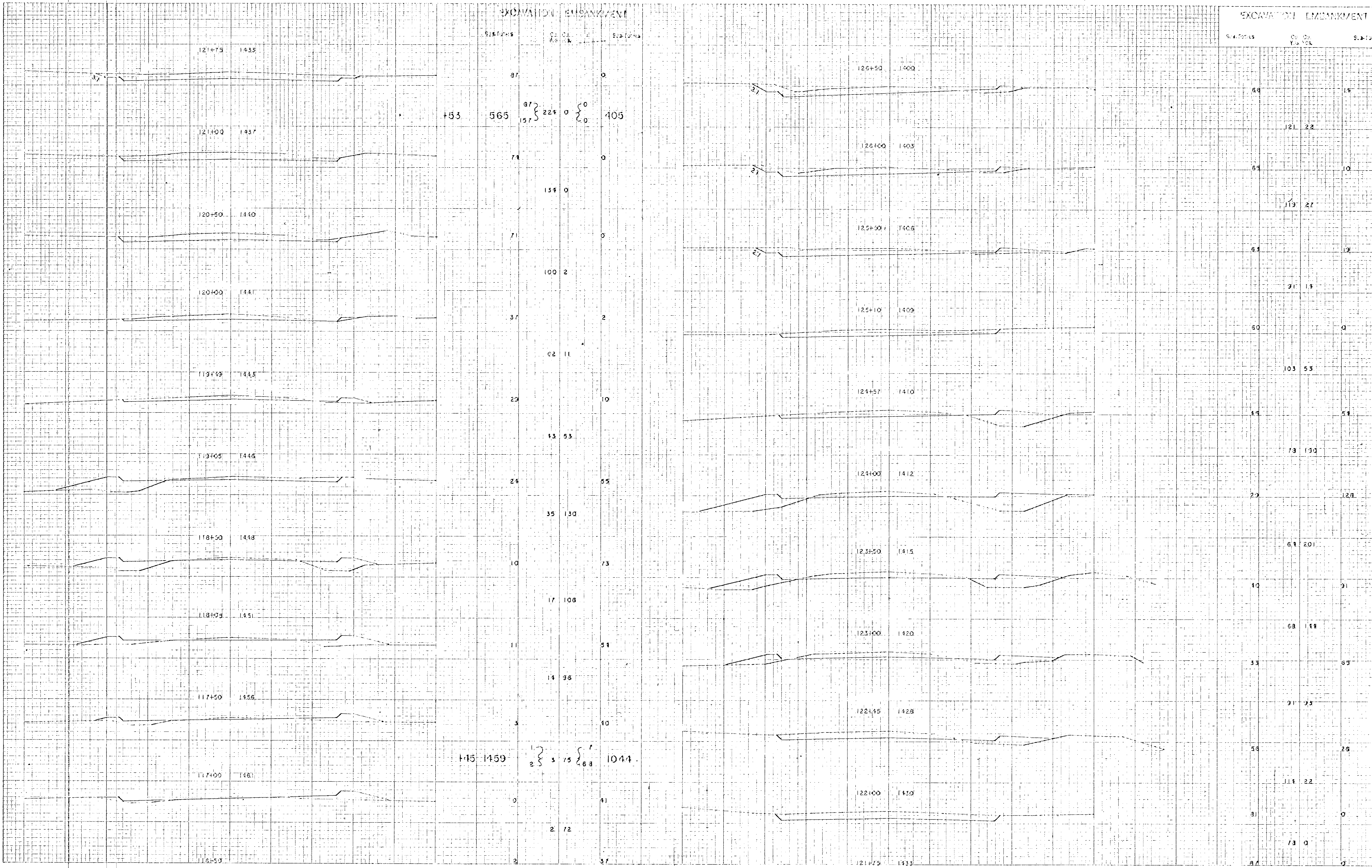


PLATE 3 - GROSS SECTION ON P. R. & E. STANDARD  
 KEUFFEL & ESSER CO., NEW YORK  
 K & E CO. NO. 2453



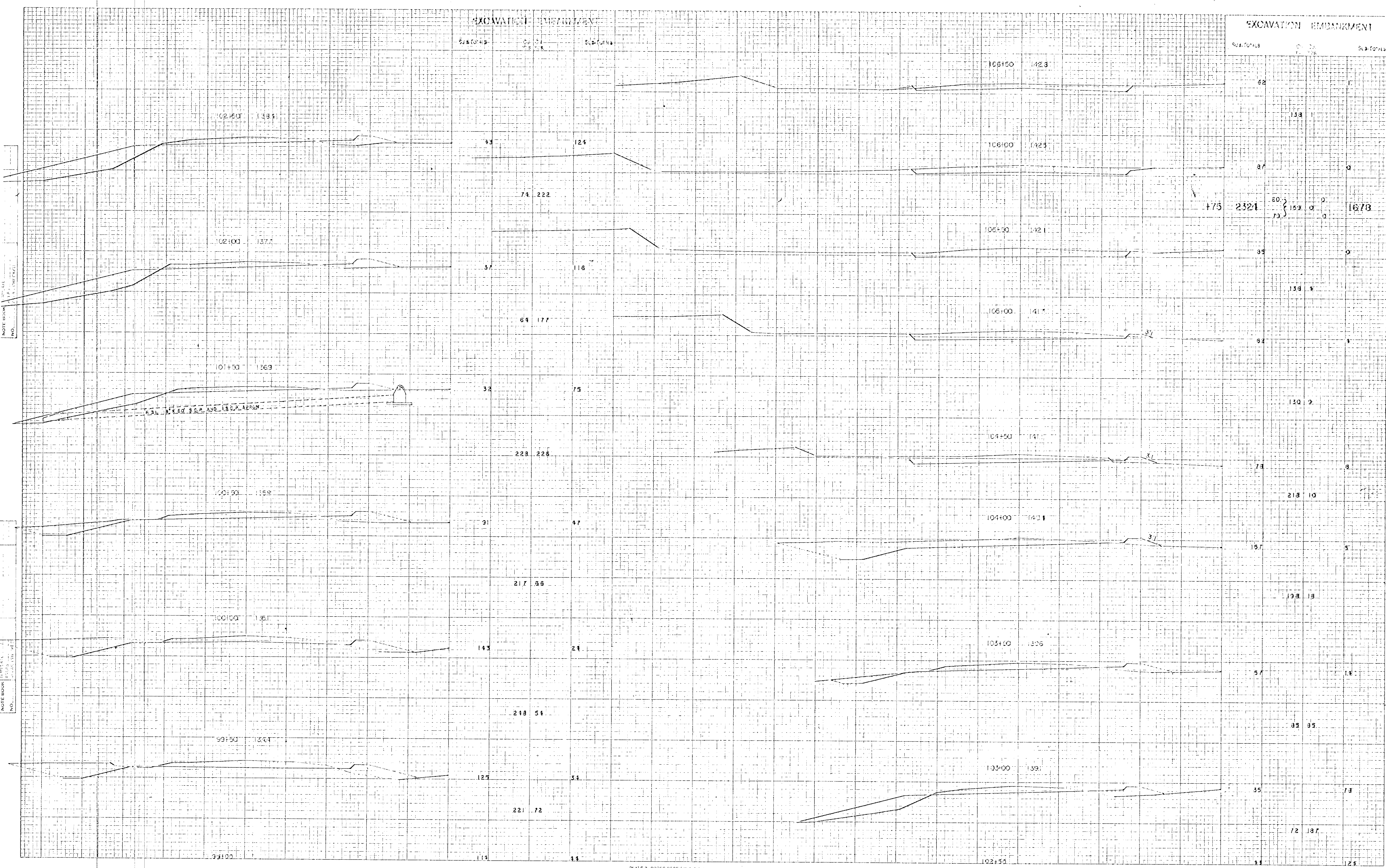


EXCAVATION

EMBANKMENT

PLATE 3 - CROSS SECTION D.P.A. & E. STANDARD  
 HUNTER & SIBER CO., N.Y. NO. 1  
 K & E CO. NO. 2453





EXCAVATION

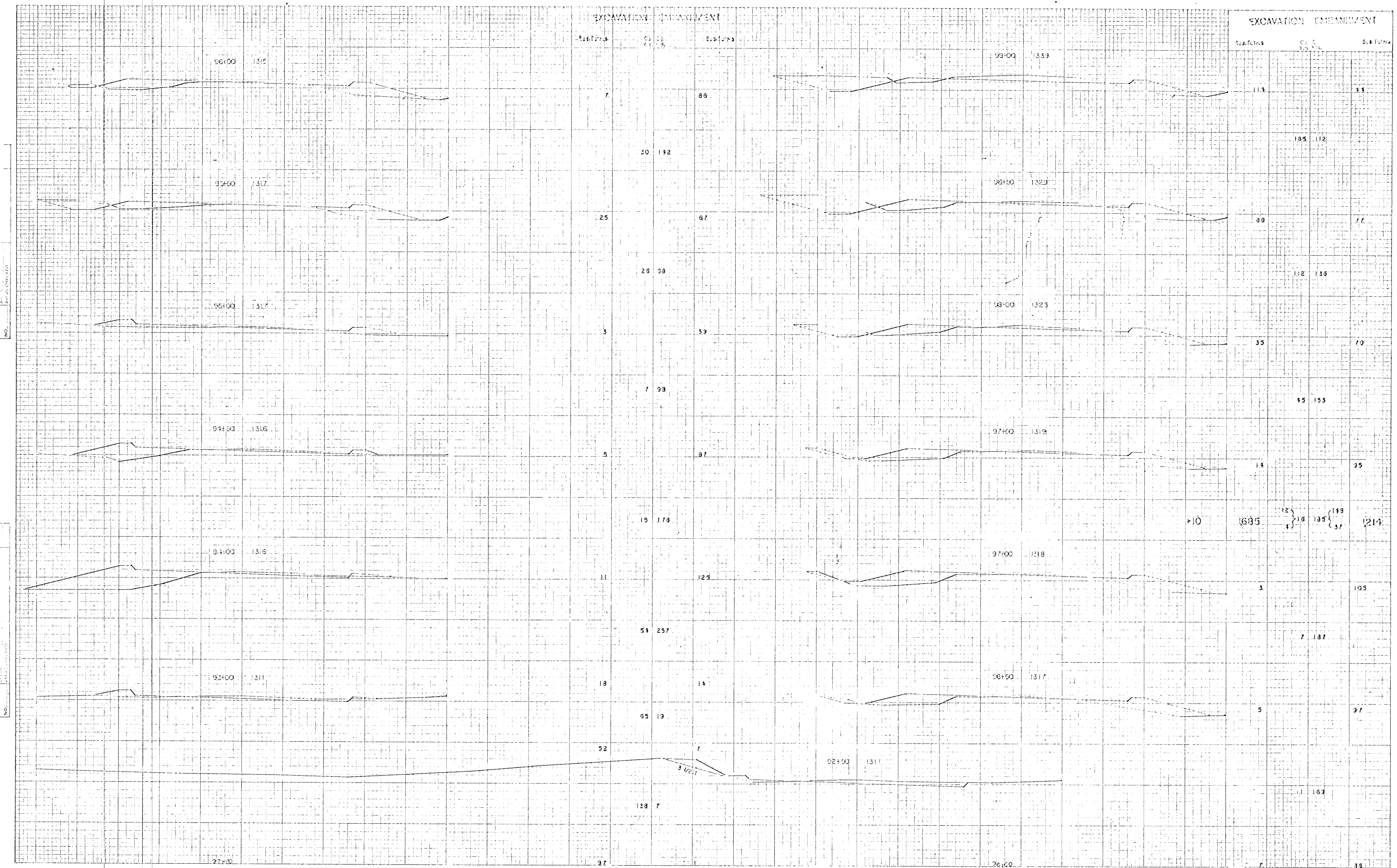
EMBANKMENT

NOTE BOOK LISTED IN THE FIELD

6.31 9' x 60' S.C.P. AND 1.5' S.P. ASPHALT

PLATE 3 CROSS SECTION OF RR R.E. STANARD NEUTREE - HILL CO. NEA. IOKK K & E CO. NO. 345-3





EXCAVATION EMBANKMENT

EXCAVATION EMBANKMENT

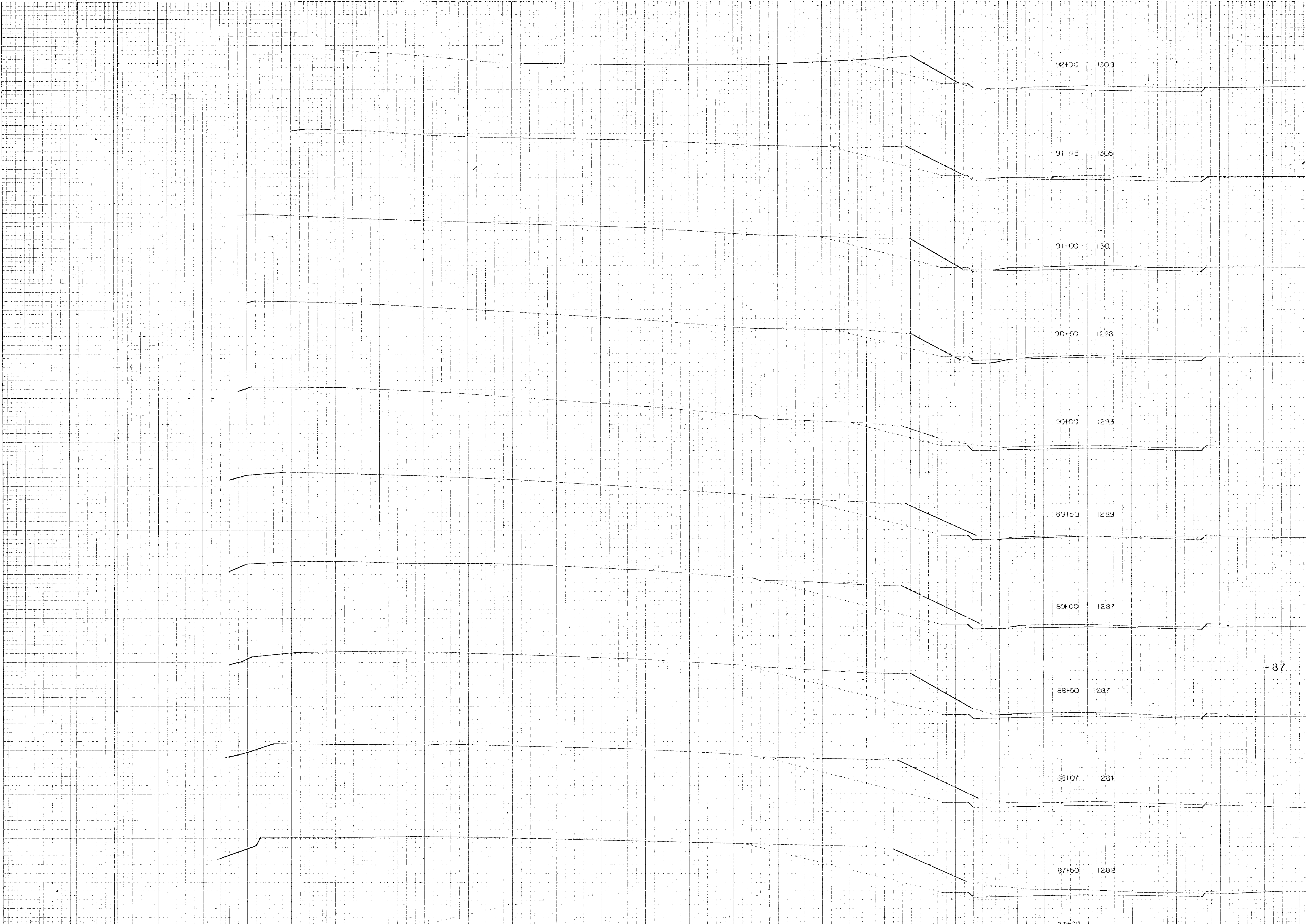
Excavation Elevation

Excavation Elevation

PLATE 3: CROSS SECTION Q.P.P. & E. STANLEY  
 KEUTTEL & BEHR CO., NEW YORK  
 X & E CO. NO. 245.3



EXCAVATION & BANKMENT



Sta. from L.S.	Sta. to R.S.	Excavation	Bankment
92+00	120.9	9.7	0
91+45	120.6	21.7	0
91+00	120.1	11.6	0
90+00	120.8	19.7	1
89+00	123.5	12.0	1
88+50	128.9	17.8	3
88+00	128.7	7.2	3
87+50	128.7	13.1	6
87+00	128.2	6.3	1
87+00	128.2	13.0	2
87+00	128.7	13.8	1
87+00	128.7	30.3	5
87+00	128.7	19.3	1
87+00	128.7	25.3	5
87+00	128.4	10.0	4
87+00	128.2	21.1	2
87+00	128.2	5.3	3
87+00	128.2	23.5	1
87+00	128.2	14.2	5
87+00	128.2	19.2	2

+87 5,122 } 105 } 122 } 3 } 5 } 3,818 } 3 } 5 }

FINAL SURVEY  
NOTE BOOK NO. 21

ORIGINAL SURVEY  
NOTE BOOK NO. 21



SURVEY MAPS  
 NOTE BOOK  
 NO.

SURVEY MAPS  
 NOTE BOOK  
 NO.

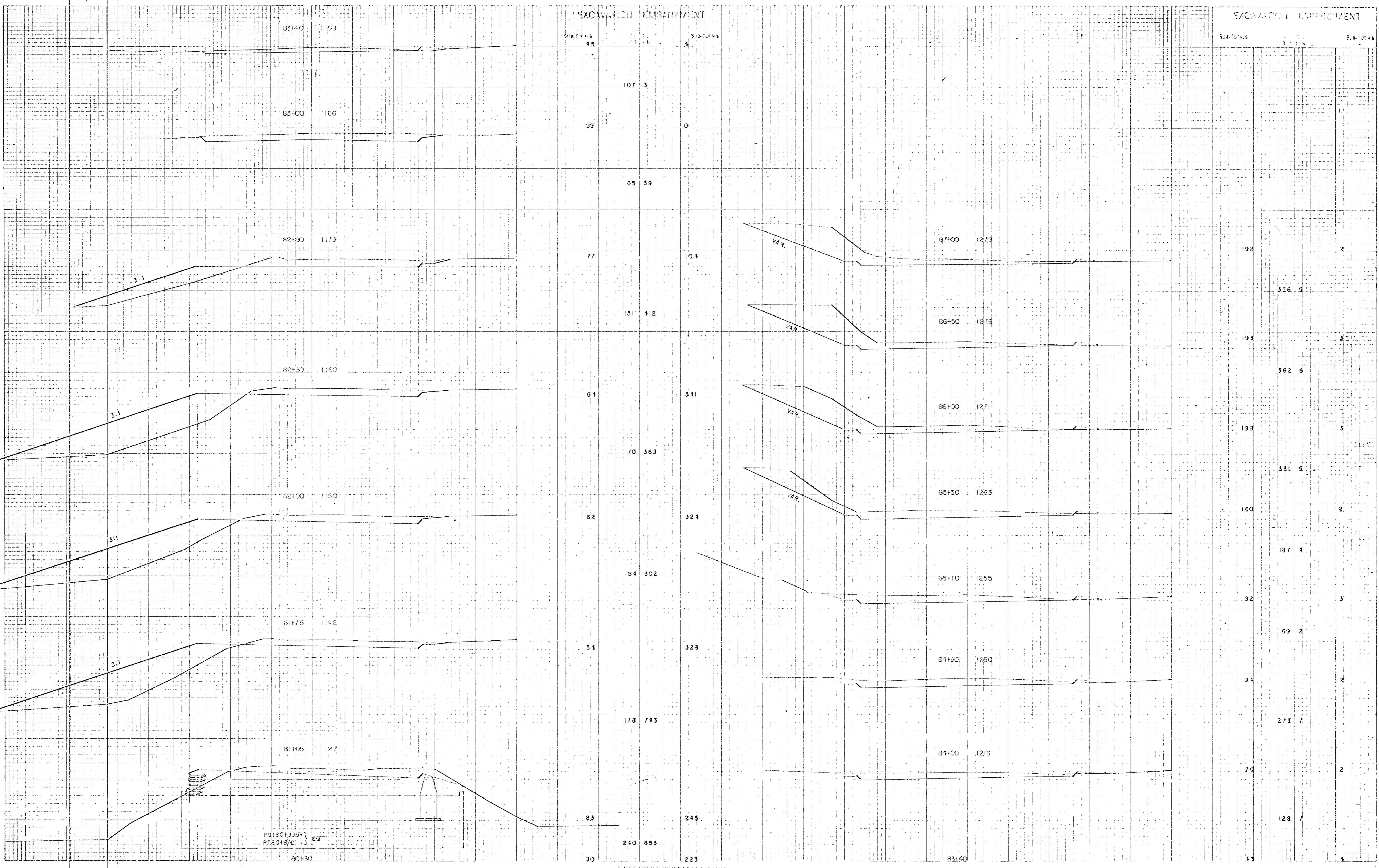


PLATE 3 - CROSS SECTION OF R.R. STATION  
 NEWYORK & WEST CO. N.Y.  
 K.S.E. CO. NO. 3453



FINAL SURVEY  
 DATE: 11/11/11  
 NOTE BOOK NO. 1001

ORIGINAL SURVEY  
 DATE: 11/11/11  
 NOTE BOOK NO. 1001

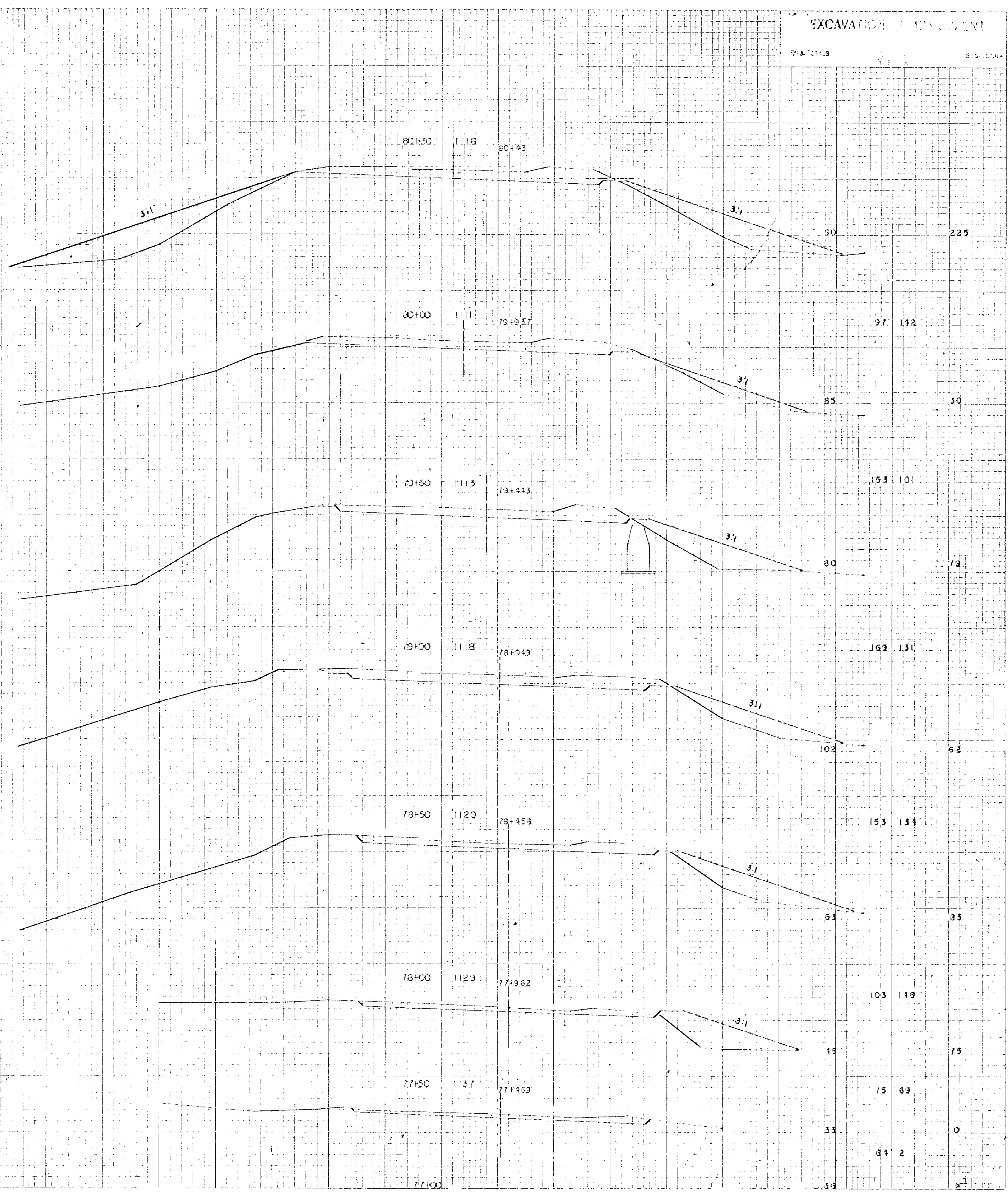
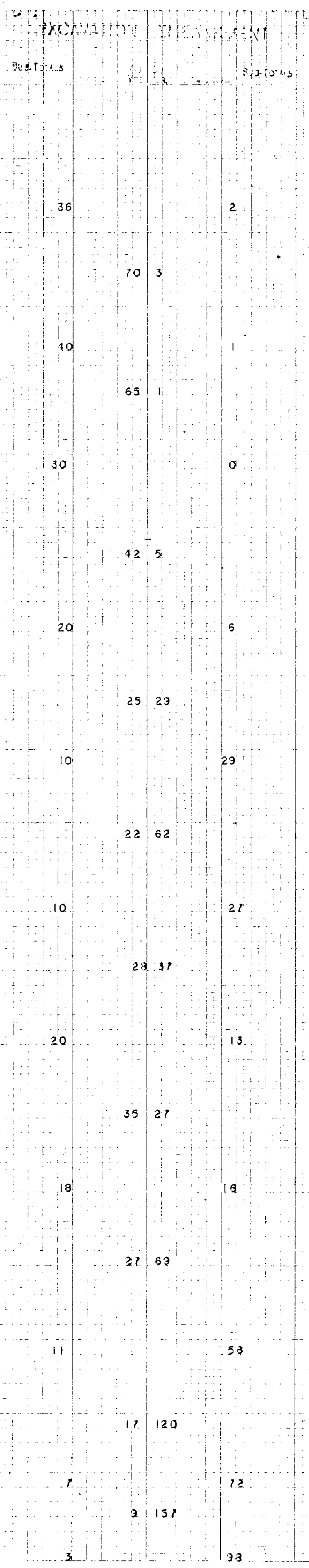
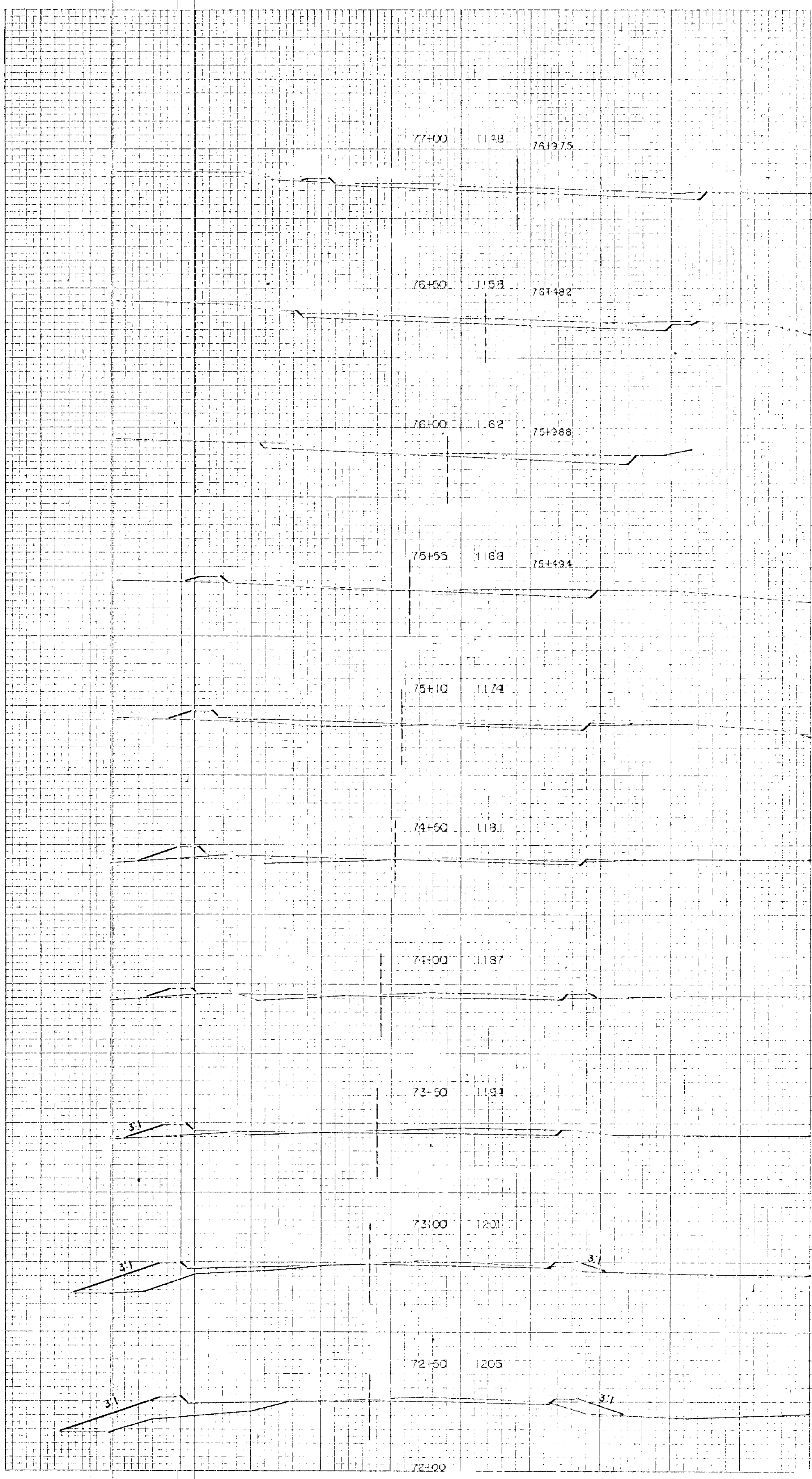
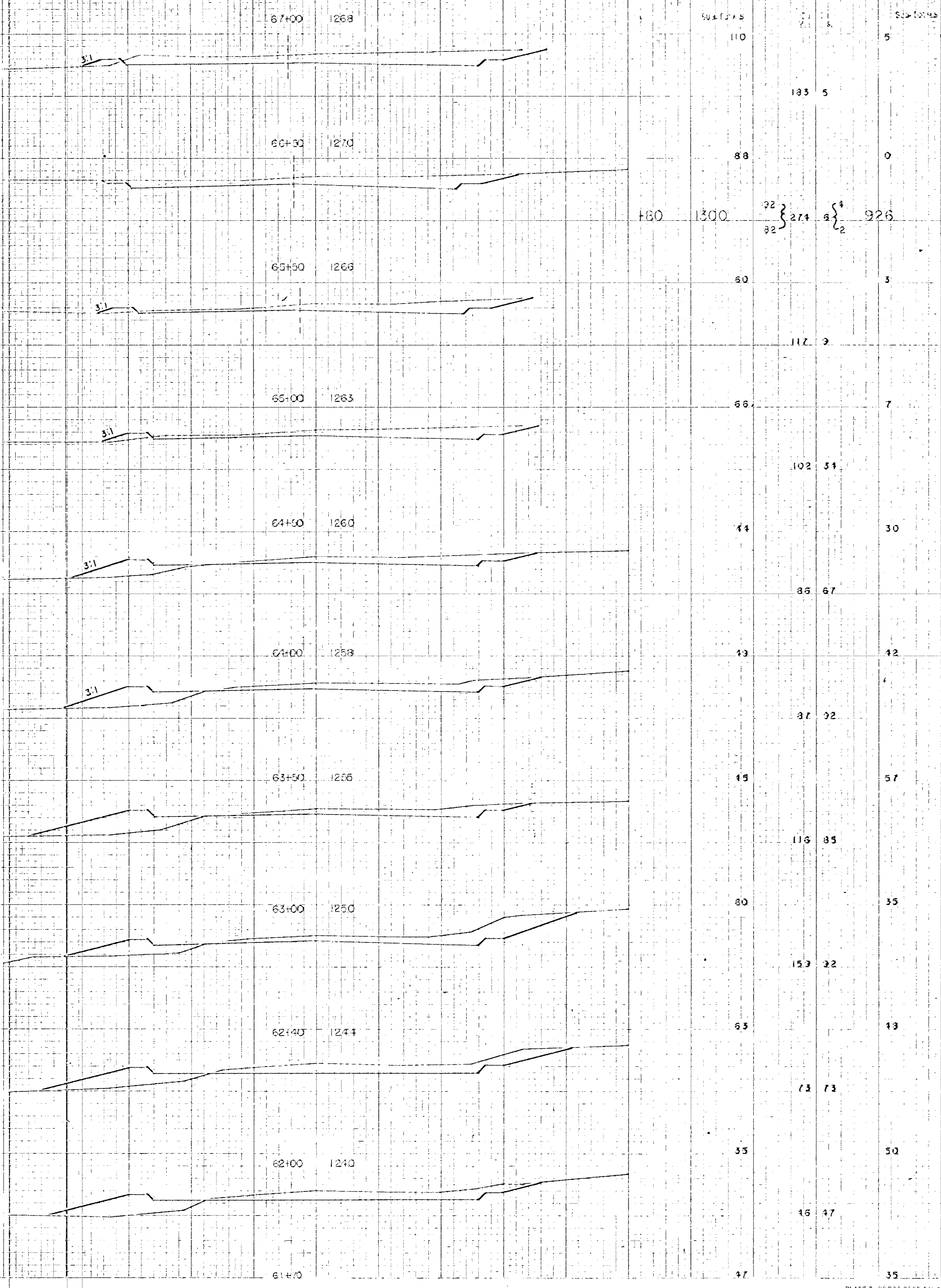


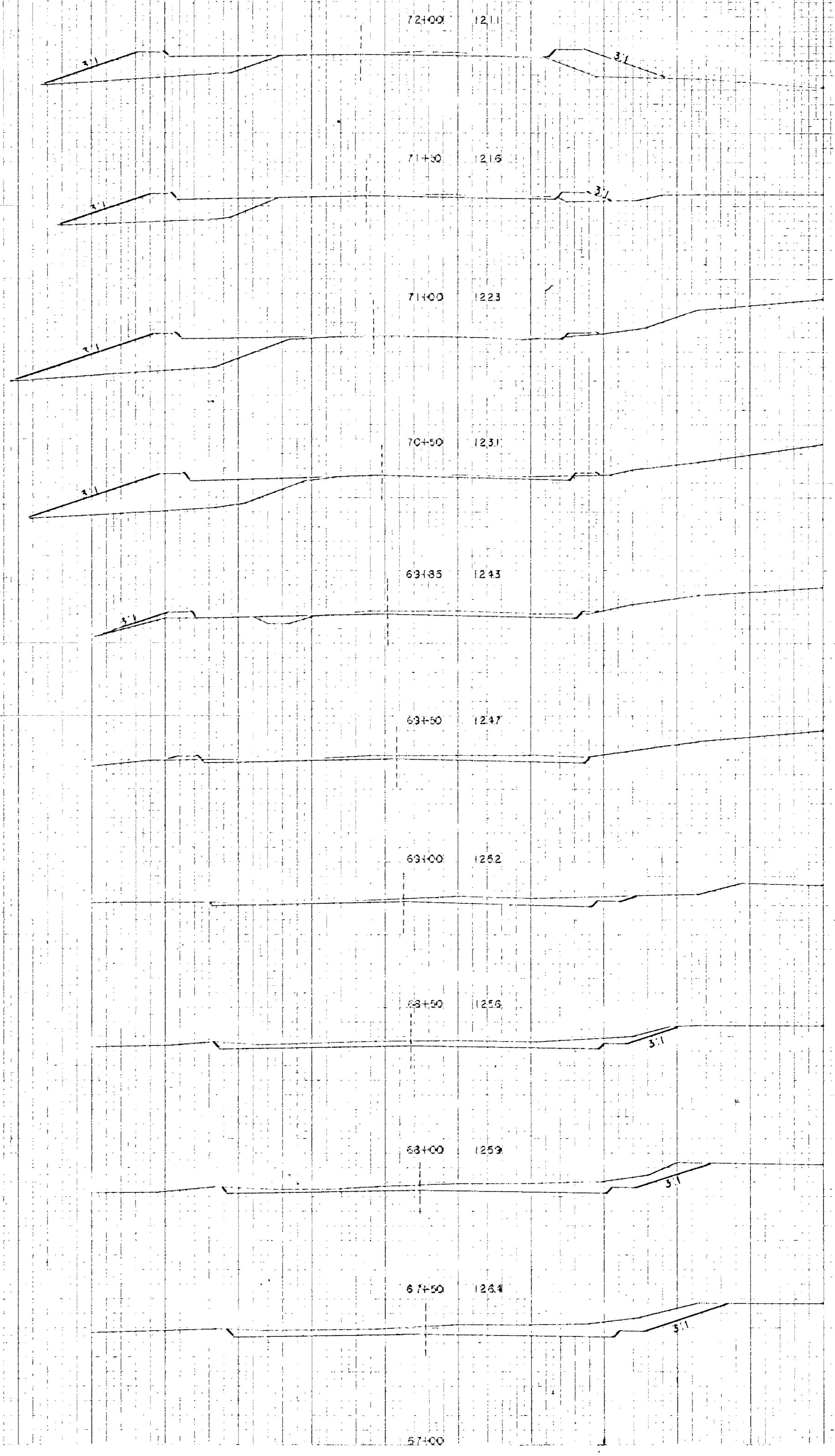
PLATE 3 - CROSS SECTION D.P.R. & E. STANDARD  
 KEUFEL & ESSER CO., NEW YORK  
 K & E CO. NO. 3453



EXCAVATION ELEVATION



+60 1300 } 274 } 926  
 82 } 2 } 2





NOTE BOOK 11-01-1511  
 NO. 11-01-1511

NOTE BOOK 11-01-1511  
 NO. 11-01-1511

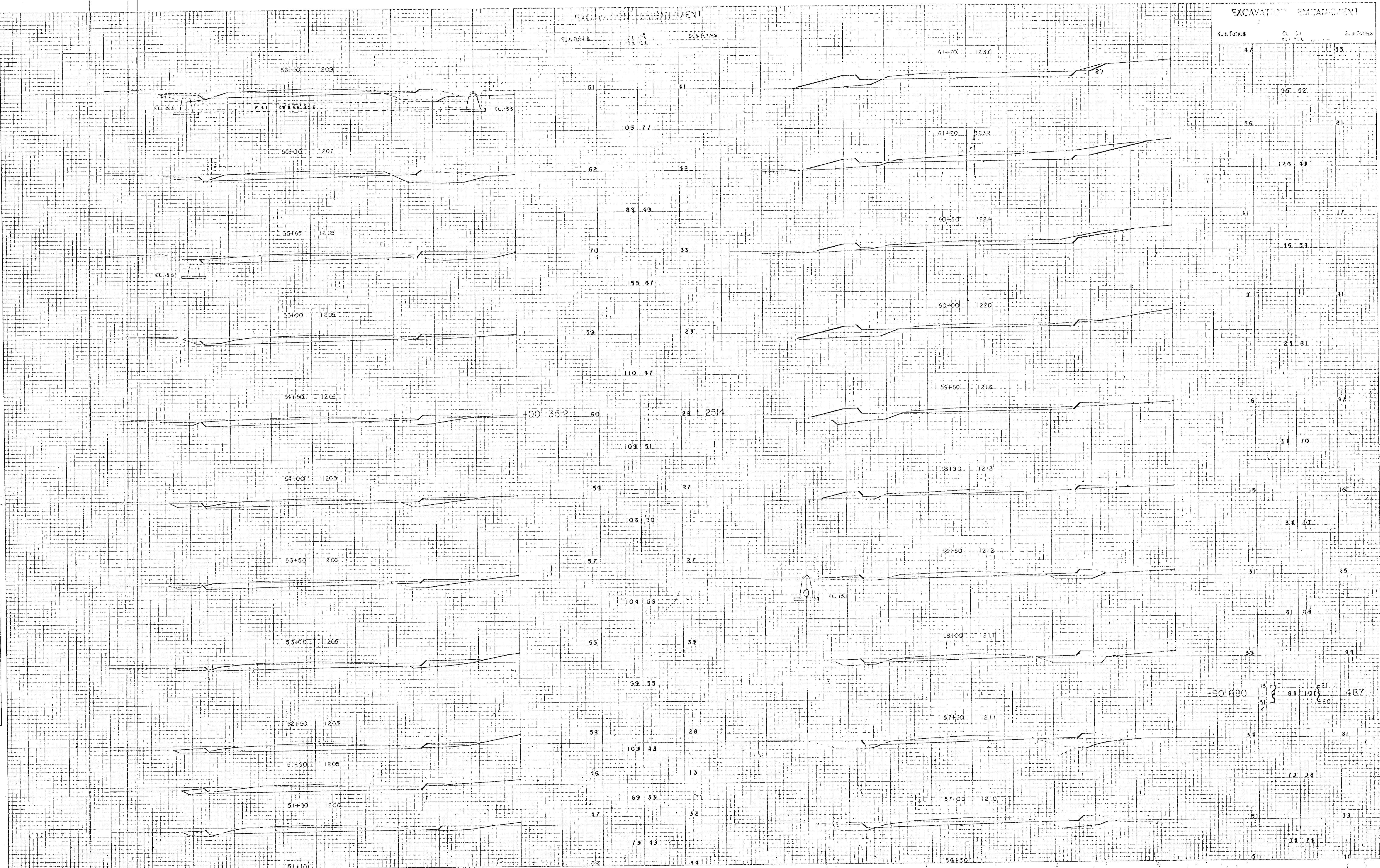


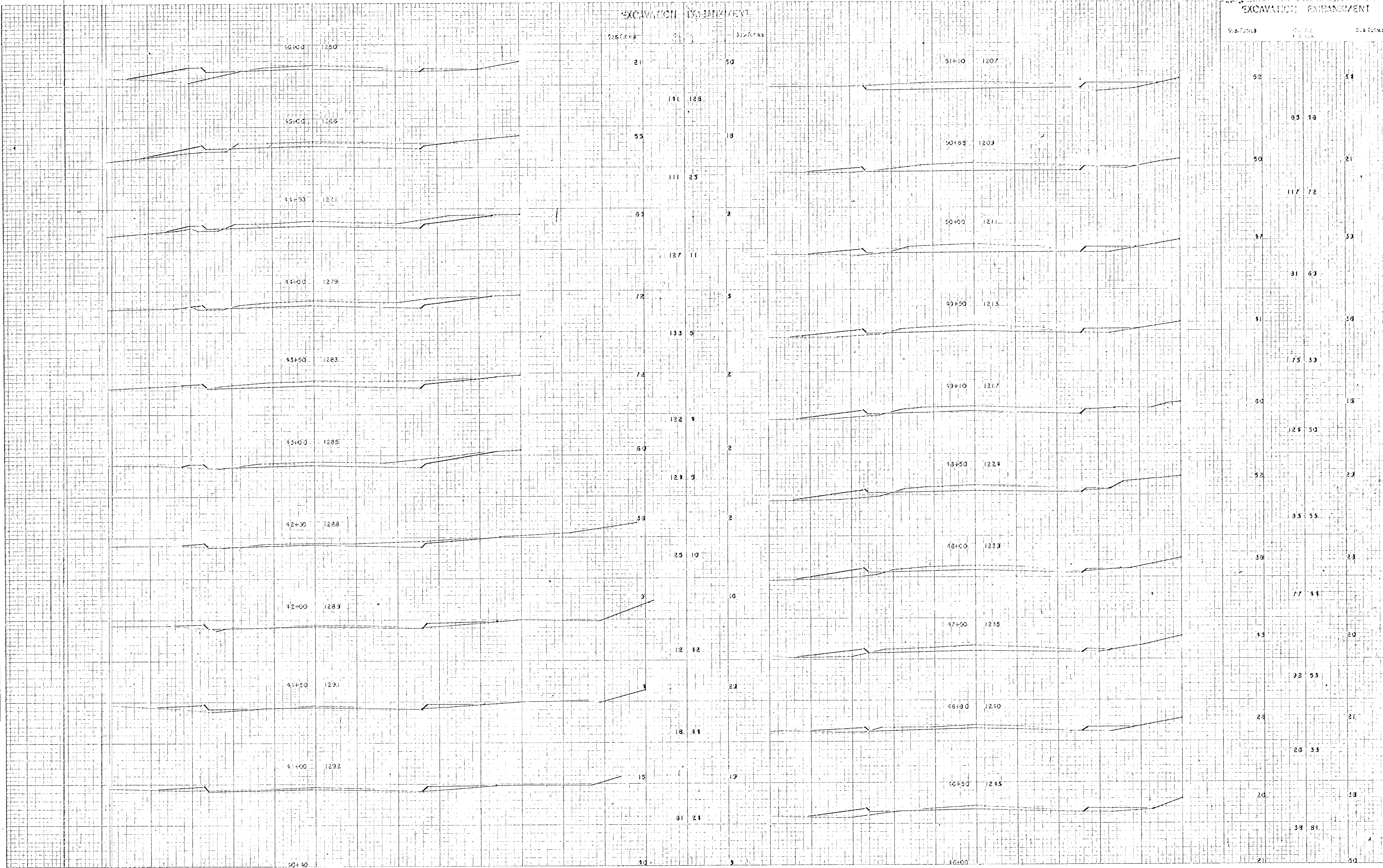
PLATE 3 - CROSS SECTION D.P.R. & STANDARD  
 REUTEL & ESSER CO., NEW YORK  
 K & E CO. NO. 2453

S.P. 02-801-01 38374 (1) SHEET 13 OF 15 SHEETS



FINAL SURVEY  
 DRAWING NO. 1  
 DATE 1/1/54  
 PROJECT NO. 100  
 SHEET NO. 11

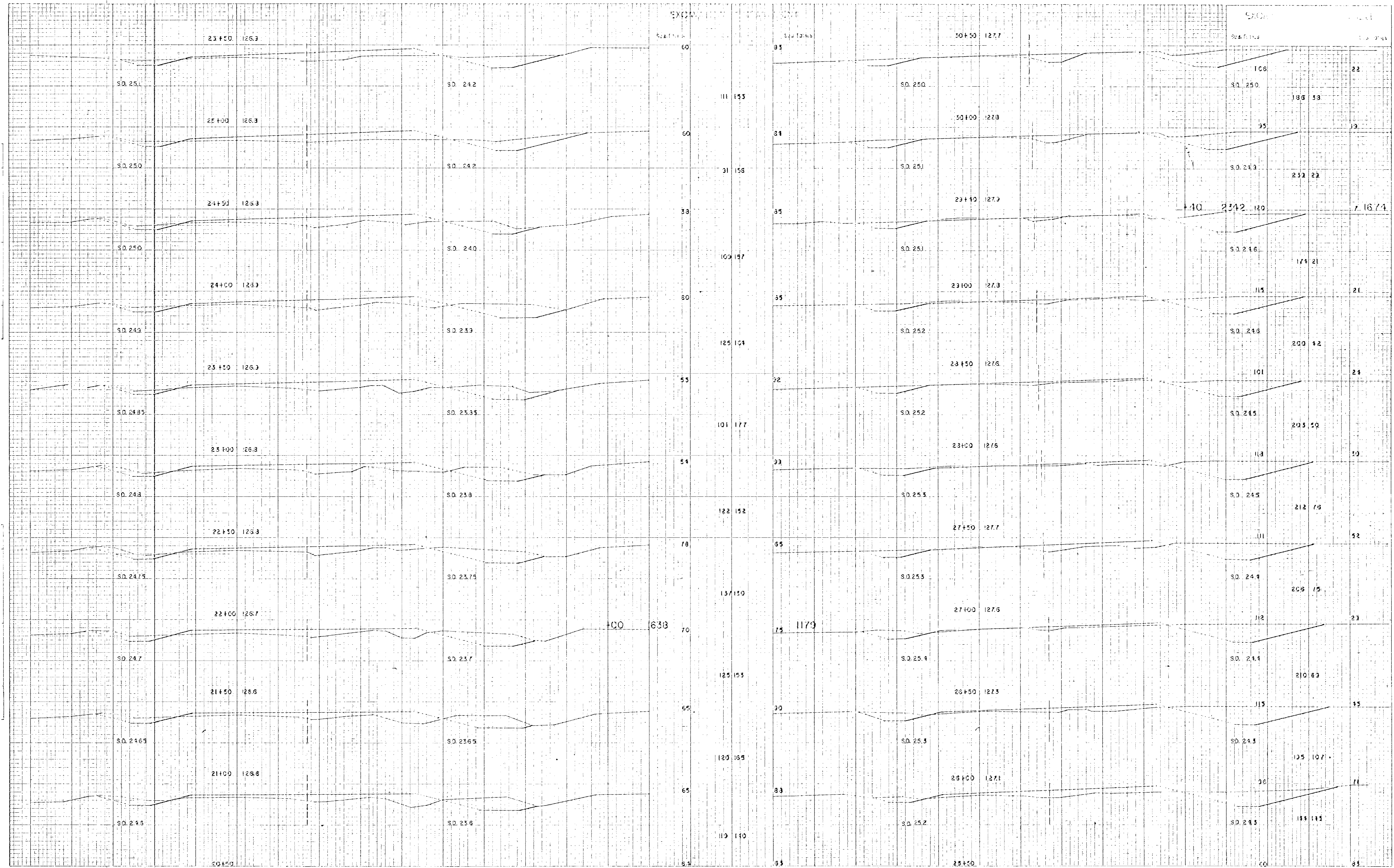
ORIGINAL SURVEY  
 DRAWING NO. 1  
 DATE 1/1/54  
 PROJECT NO. 100  
 SHEET NO. 11













SURVEY PLOTTED  
 NOTE BOOK NO. 115  
 SURVEY NO. 115

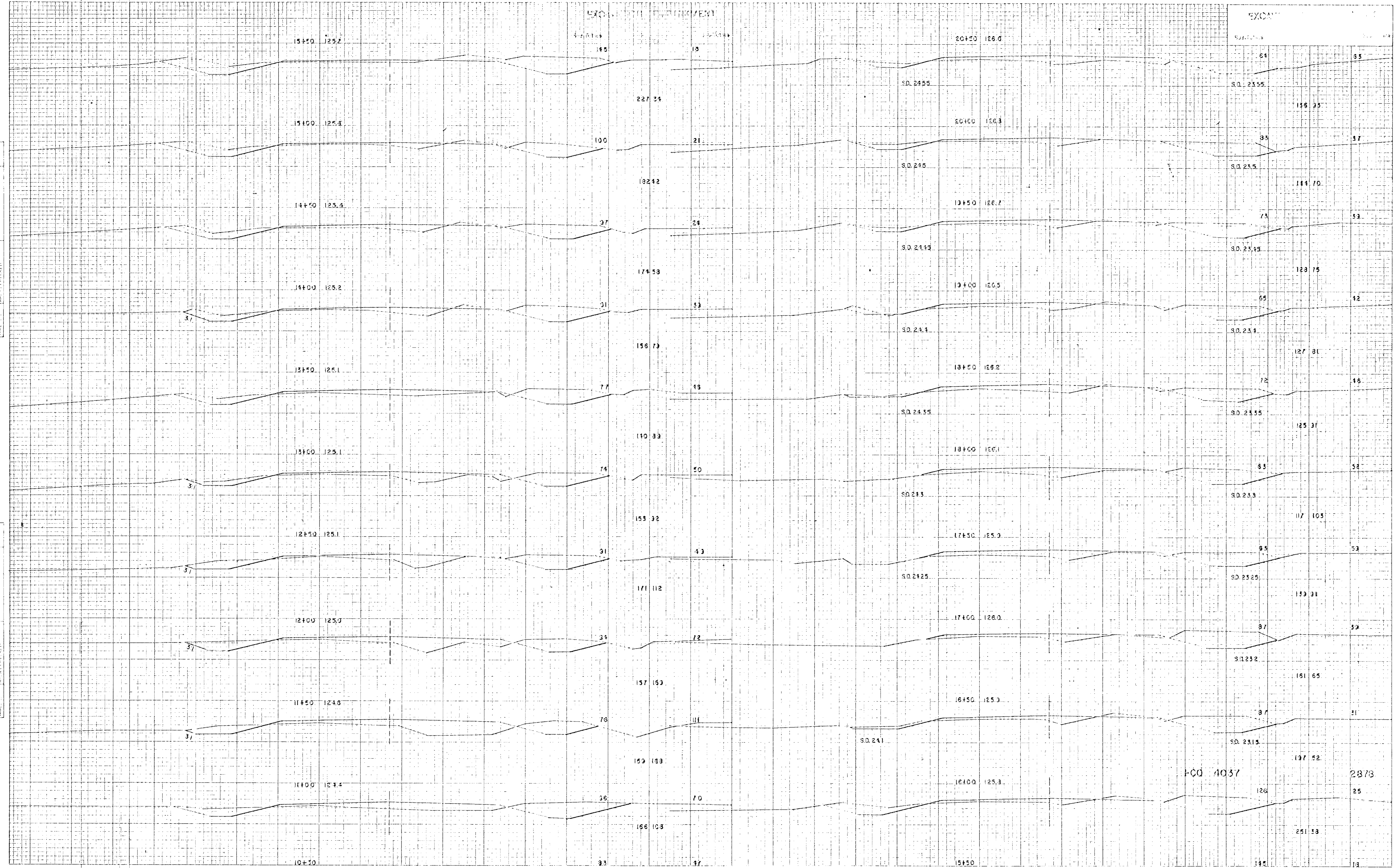
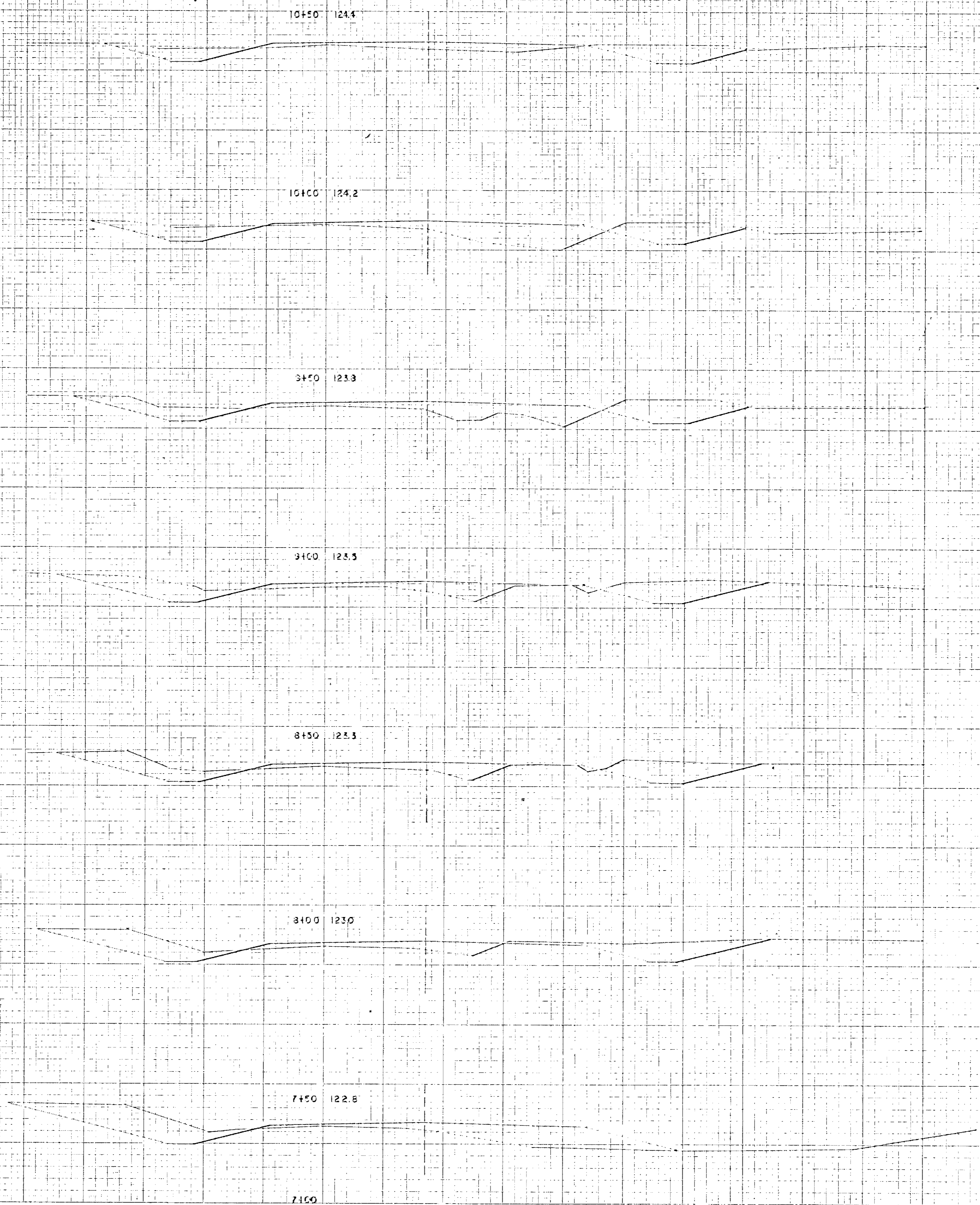


PLATE 3 - CROSS SECTION D.P.R. & R.E. STANDARD  
 NEWELL & ESSER CO., NEW YORK  
 N. E. CO. NO. 2453



STATION	EXCAVATION	DEPTH
10450	35	47
10400	102	103
9450	114	31
9400	121	53
8450	130	53
8400	143	11
7450	104	123
7400	113	117



FINAL SURVEY NOTE BOOK NO. 1000

ORIGINAL SURVEY NOTE BOOK NO. 1000

PLATE 3 - CROSS SECTION O.P.R. & STANDARD  
 KEUFEL & ESSLER CO., NEW YORK  
 K & E CO. NO. 3453



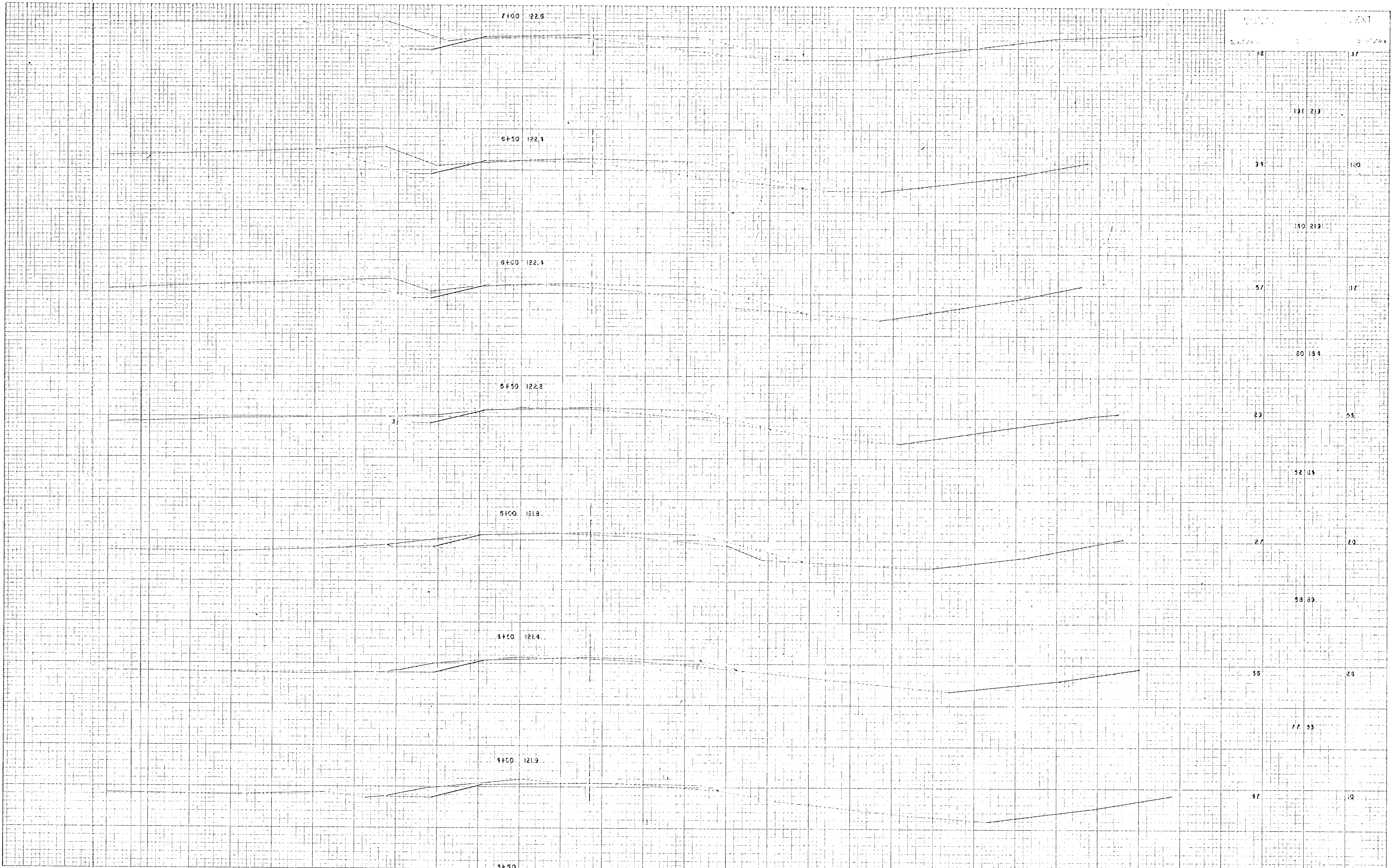


PLATE 3 - CROSS SECTION O.P.R. & B. STANDARD  
 HEDTEL & ESSEL CO., NEW YORK  
 K & E CO. NO. 3453



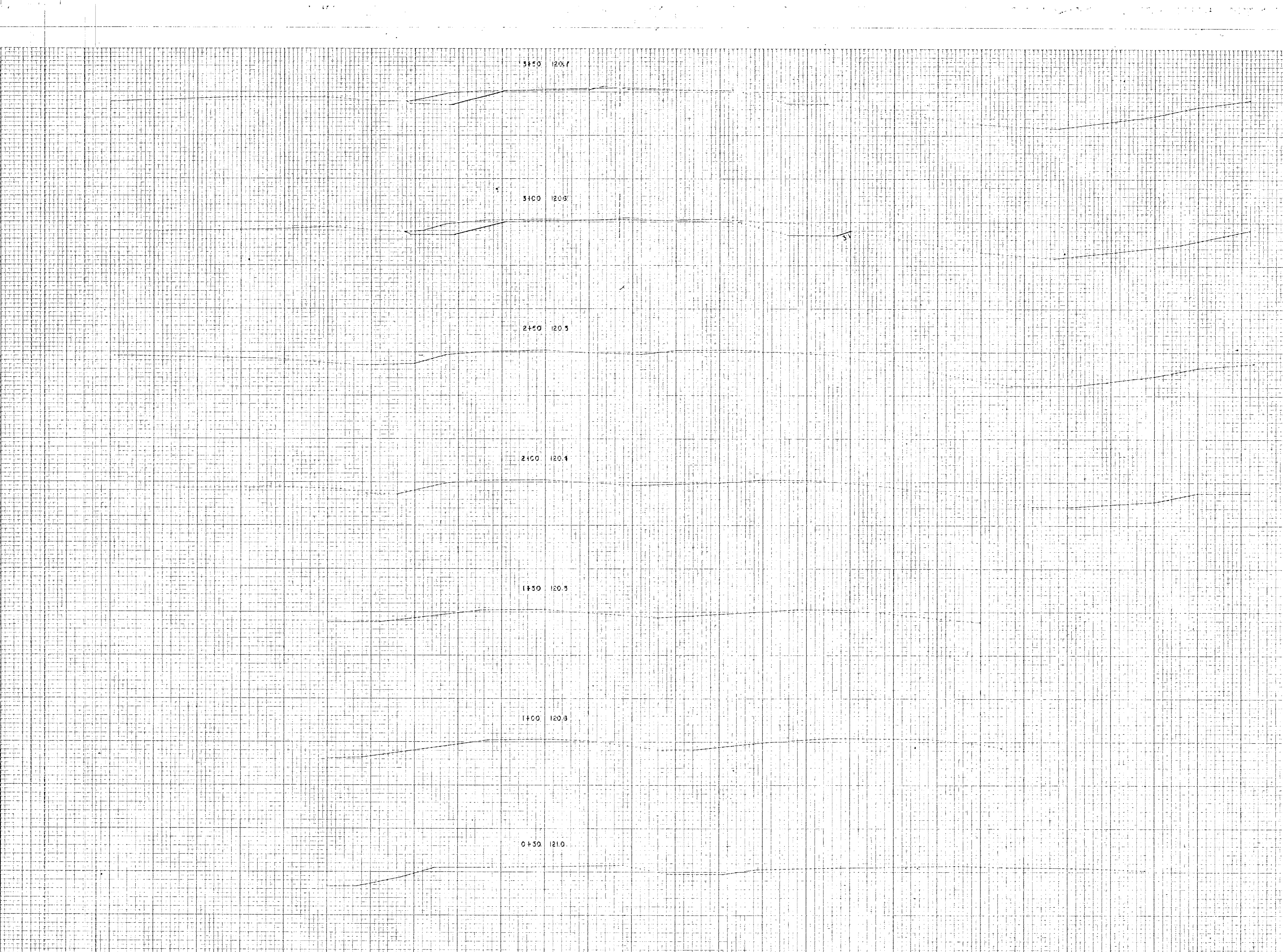
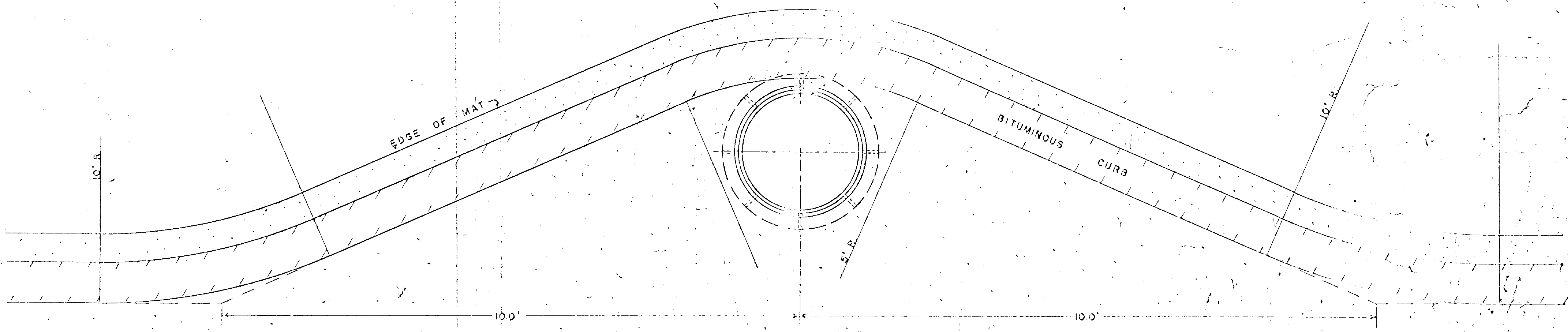
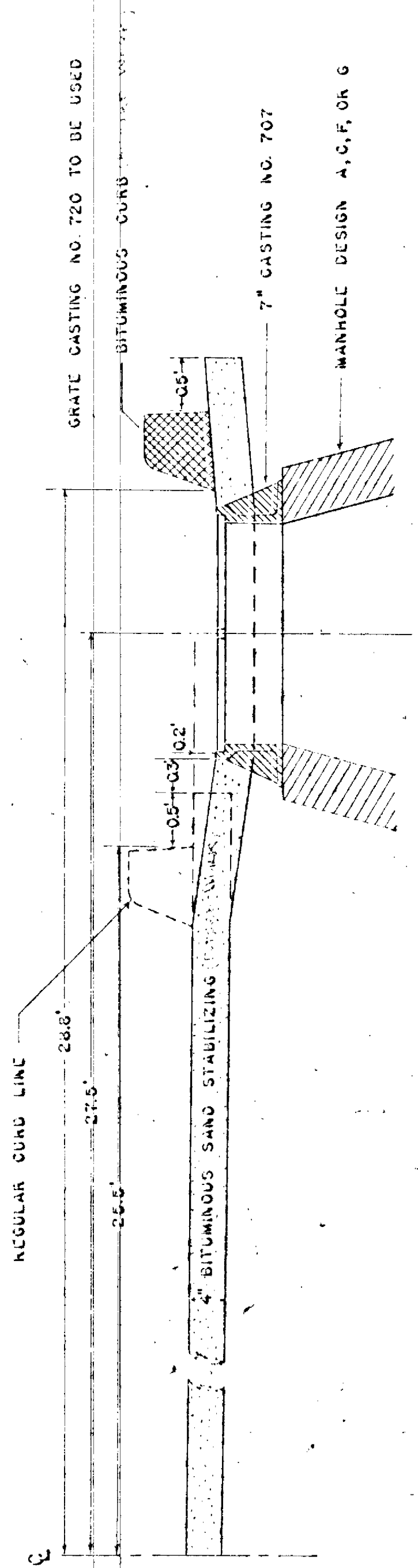


PLATE 3 - CROSS SECTION O. R. & R. E. STANDARD  
KUFFEL & ESSER CO., NEW YORK  
K & E CO. NO. 345-3



DETAIL OF CATCH BASIN  
SCALE 1" = 1'





8+00 120.8

7+00 121.7

6+00 119.5

5+00 118.2

4+00 122.1

3+00 122.0

2+00 120.7

1+00 121.5

9+77 104.7

9+50 105.8

9+00 110.2

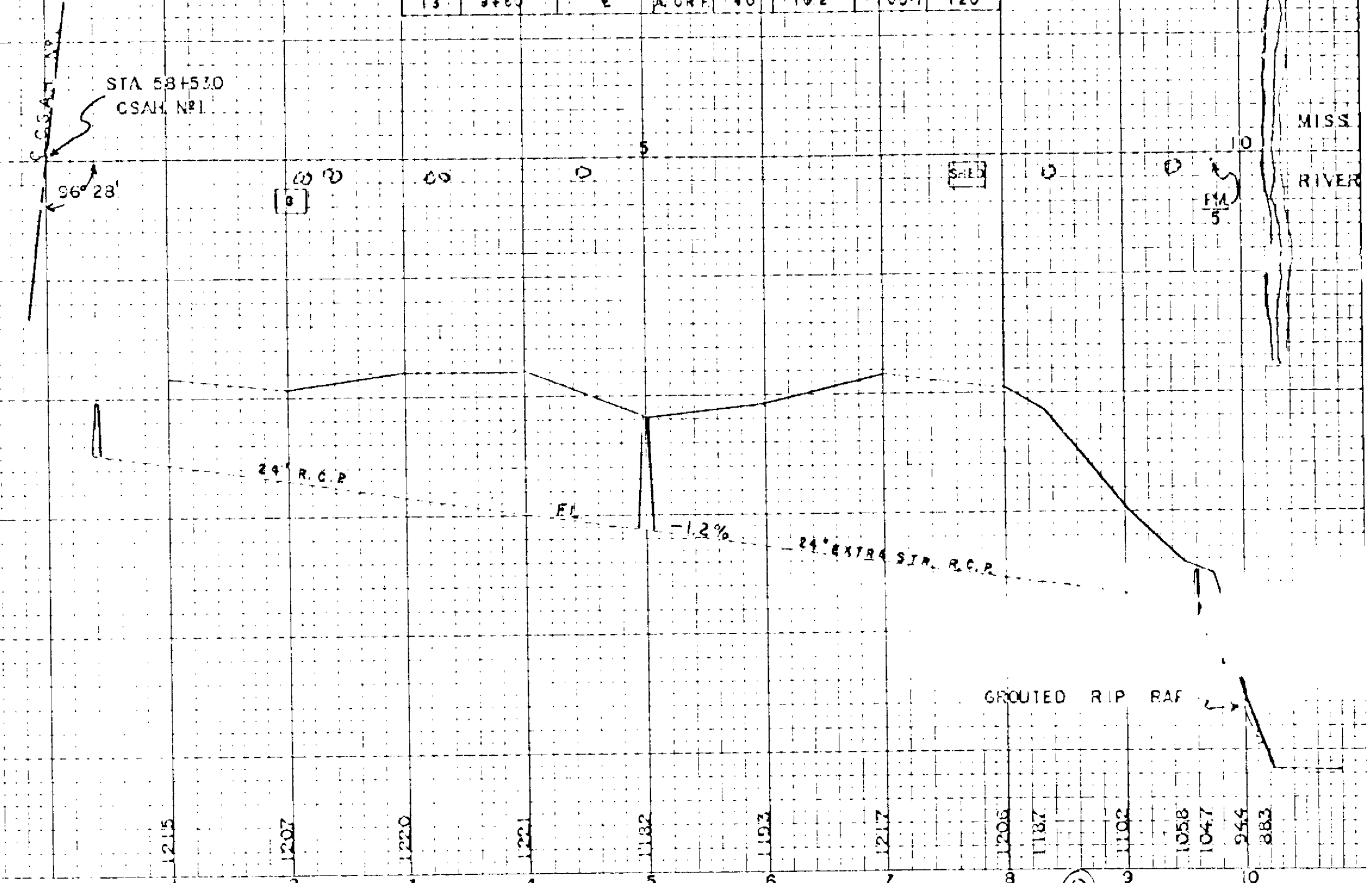
8+54 113.7

SICRM SEWER

LY STA 38+35 CSA# NPL  
 P1 24"x48" EXTRA STRENGTH RCP SEWER  
 P2 24"x48" RCP SEWER  
 P3 24"x36" RCP SEWER  
 P4 12"x24" CMP BOX

GROUTED RIP RAP 4" CU YDS  
 TRENCH EXC 0'-5" 50'  
 " " 0'-10" 230'  
 " " 0'-0" 10' 530'

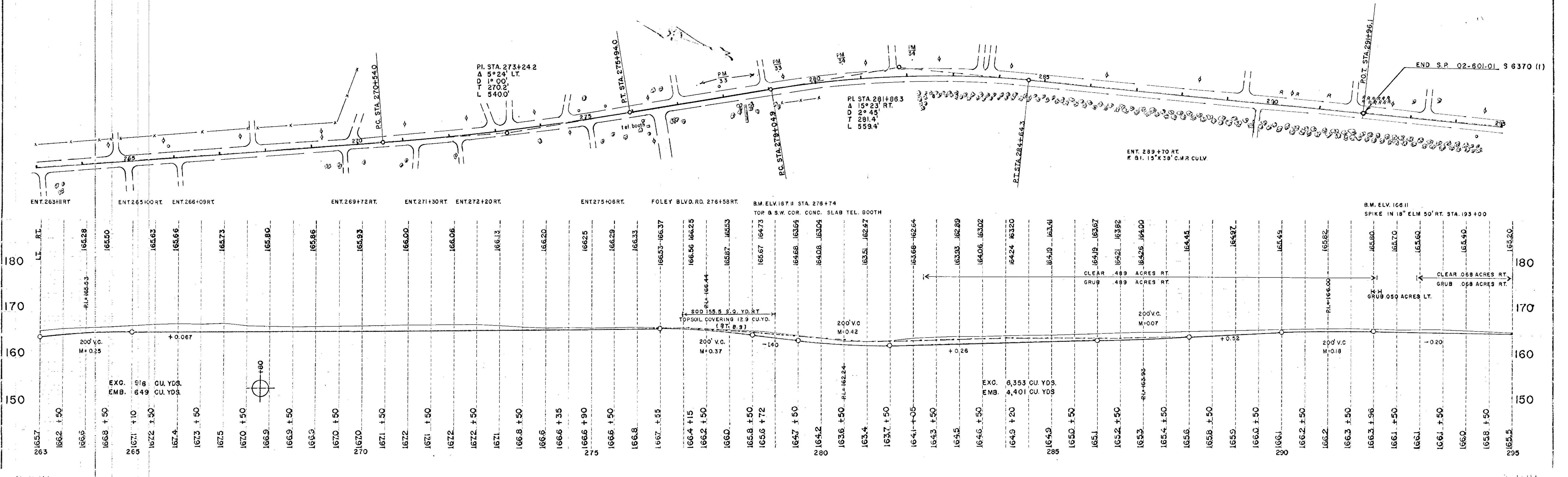
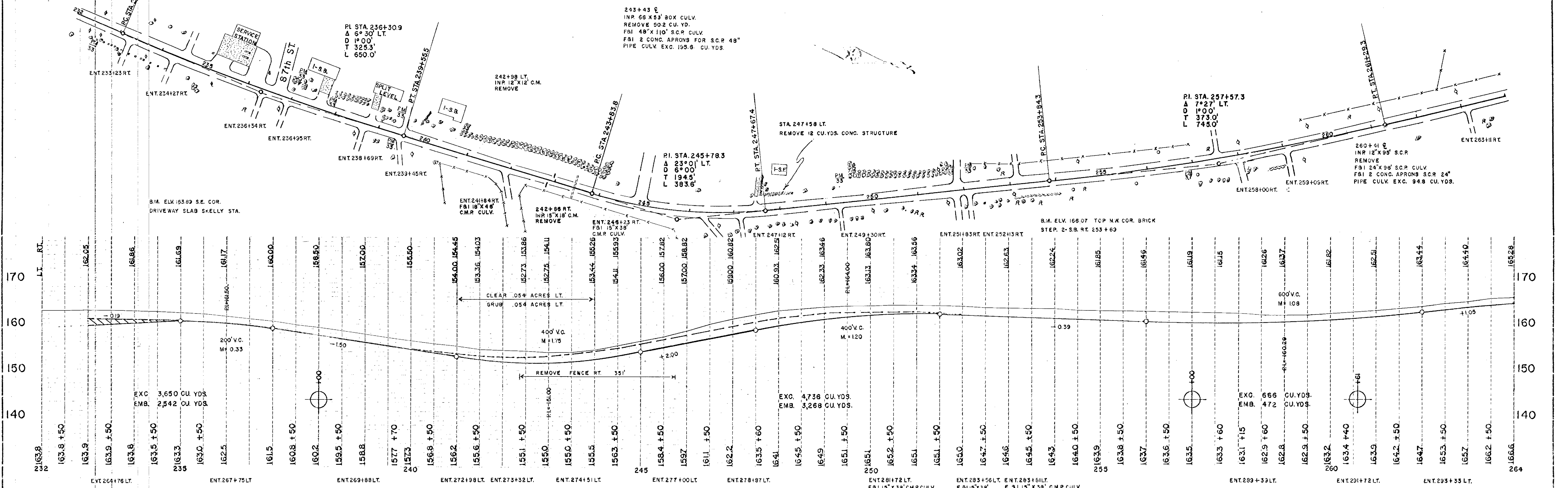
LINE NO.	STATION	LOCATION	CONSTRUCT. CR. OR. IN. H.	EXC. FOR. CR. OR. IN. H.	CAST. ASSY. NO.	SEATE. NO.
12	3+00	E	RESIGN IN FT	CU. YDS	100-7	720
13	3+25	E	A. CRF. 40'	102	100-7	720

















ENT 113+01 LT. ENT 113+85 LT. ENT 116+23 LT. ENT 117+94 LT. 72 V2 WAY RD. 119+149 LT. ENT 122+51 LT. GLEN CREEK RD. 124+56 LT. ENT 125+21 LT. ENT 126+30 LT. ENT 129+63 LT. TALMADGE WAY RD. 130+81 LT. ENT 134+55 LT. 75 TH WAY RD. 136+26 LT. ENT 139+62 LT.

CB. OR MH. NO.	STATION	LOCATION	CONSTRUCT. DESIGN	EXC. FT. CU. YDS.	FORCAST. TYPE	GRATE NO.
8	130+00	28' LT.	AOR F 110	28.5	700-7	720
9	150+00	28' RT.	COR F 3.0	10.7	700-7	720
10	150+50	28' LT.	COR F 3.0	11.9	700-7	720

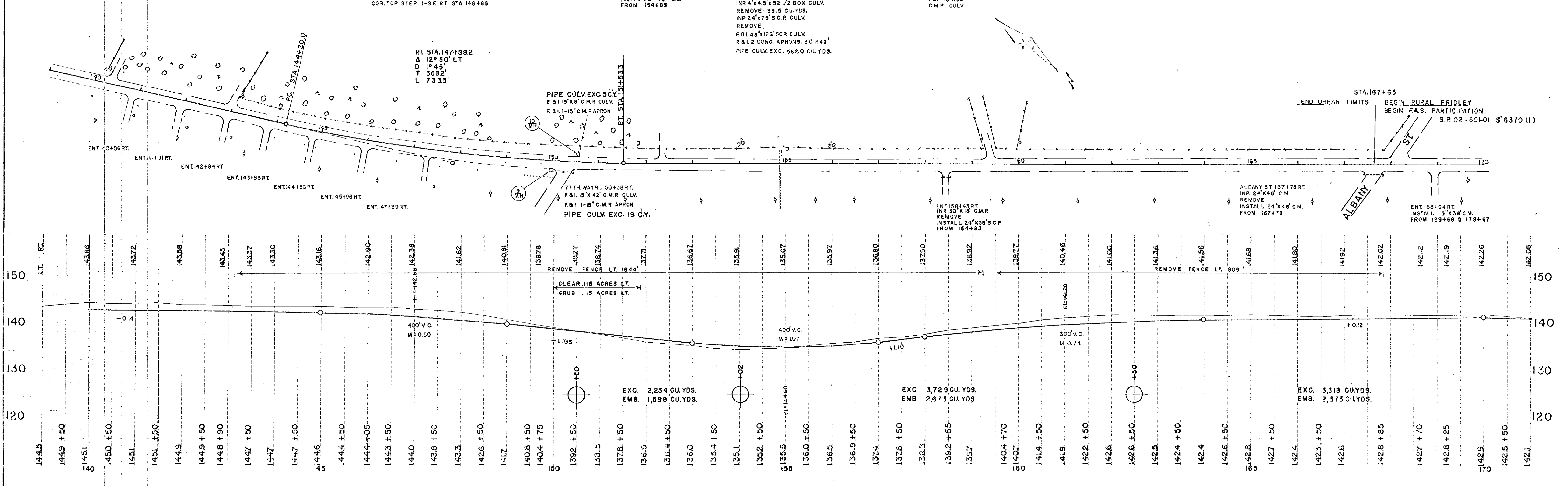
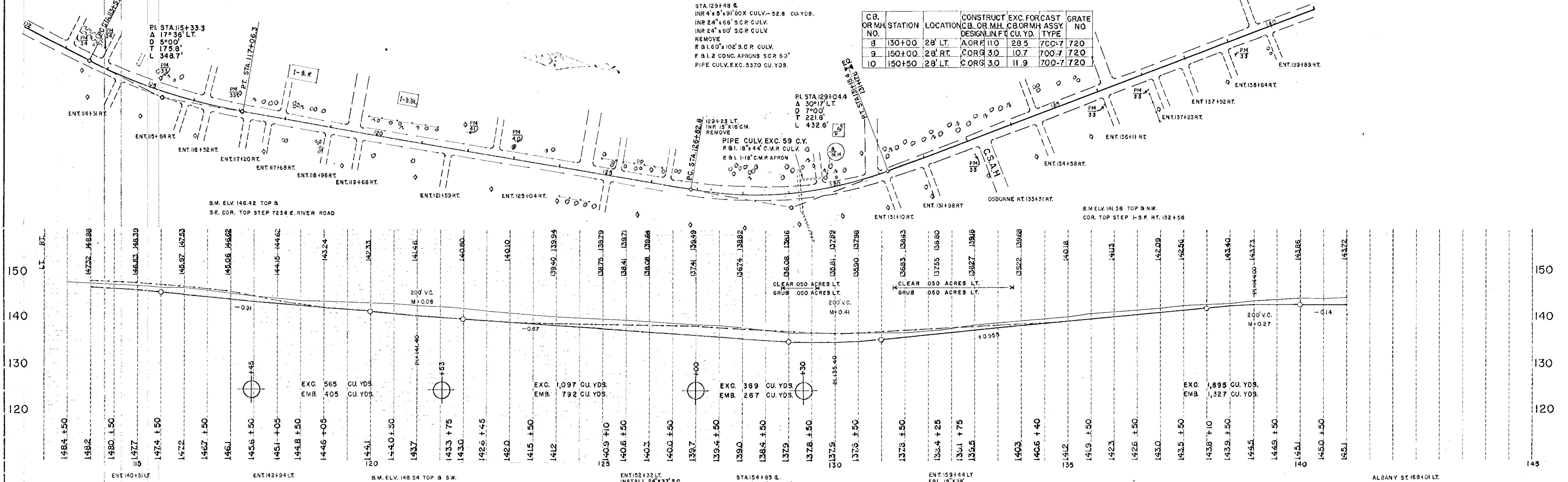
STA 129+48 &  
 INR 4"x5'x19' BOX CULV. - 52.6 CU. YDS.  
 INR 24"x66" S.C.P. CULV.  
 INR 24"x60" S.C.P. CULV.  
 REMOVE  
 F & I 1.60'x102' S.C.P. CULV.  
 F & I 2 CONC. APRONS S.C.P. 60"  
 PIPE CULV. EXC. 5370 CU. YDS.

PI. STA 129+04.4  
 A 30°17' LT.  
 D 700'  
 T 221.9'  
 L 432.6'

123+23 LT.  
 INR 15'x18' C.M. REMOVE  
 PIPE CULV. EXC. 59 C.Y.  
 F & I 18'x44' C.M.R. CULV.  
 F & I 1-18' C.M.R. APRON

CLEAR .050 ACRES LT.  
 GRUB .050 ACRES LT.

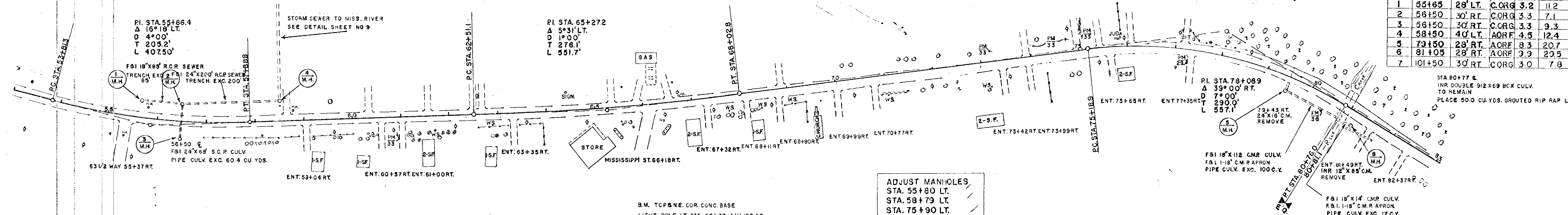
STA 154+85 &  
 INR 4'x4.5'x52 1/2' BOX CULV.  
 REMOVE 33.5 CU. YDS.  
 INR 24'x73' S.C.P. CULV.  
 REMOVE  
 F & I 48'x128' S.C.P. CULV.  
 F & I 2 CONC. APRONS S.C.P. 48"  
 PIPE CULV. EXC. 562.0 CU. YDS.



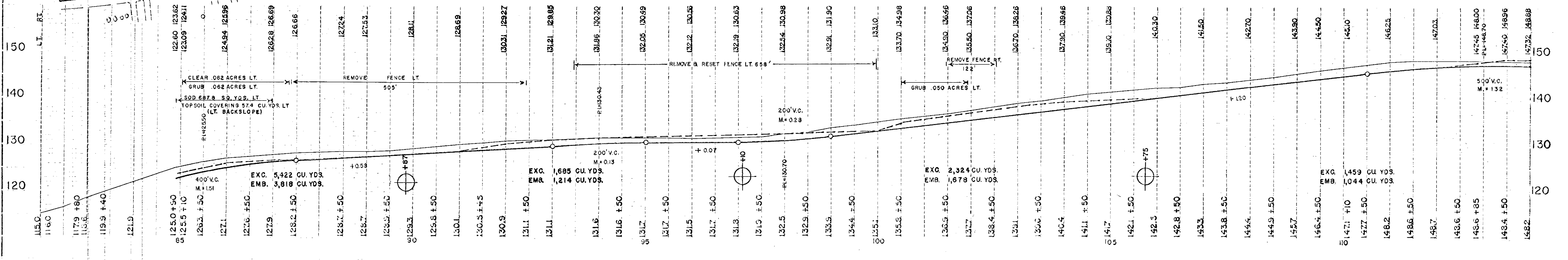
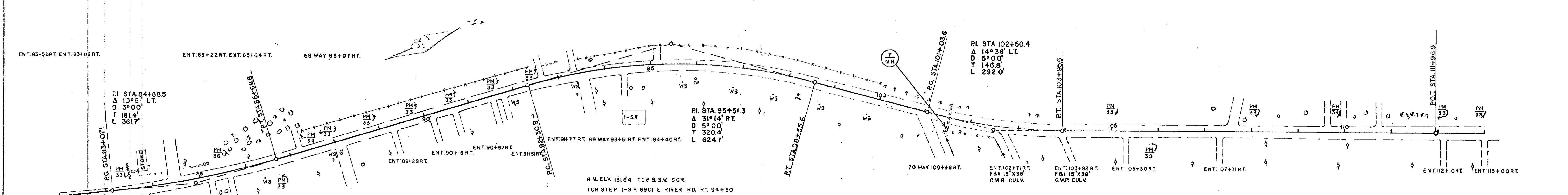
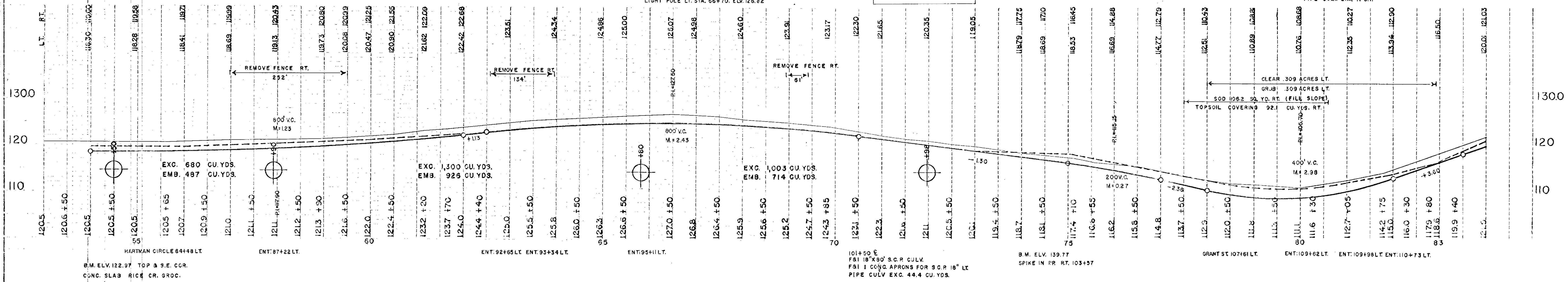


ENT.58+68LT. F81 15'X38' C.M.P. CULV. F81 1-15' G.M. APRONS  
 ENT.60+33LT. F81 15'X32' C.M.P. CULV. F81 2-15' C.M. APRONS  
 ENT.61+57LT. F81 15'X32' C.M.P. CULV. F81 2-15' C.M. APRONS  
 ENT.62+53LT. F81 15'X32' C.M.P. CULV. F81 2-15' C.M. APRONS  
 ENT.65+35LT. ENT.65+86LT. ENT.66+54LT. ENT.68+66LT.  
 ENT.73+96LT. ENT.74+99LT. ENT.75+44LT. ENT.76+71LT. ENT.77+77LT.

C.B. ORM STATION NO.	LOCATION	CONSTRUCT. DESIGN	EXC. M.H. UNITS	FOR CAST CULV. TYPE	GRATE NO.
1	55+165	28' LT. C.ORG	3.2	112	700-7 720
2	56+150	30' RT. C.ORG	3.3	7.1	700-7 720
3	56+150	30' RT. C.ORG	3.3	9.3	700-7 730-9
4	58+150	40' LT. AORF	4.5	12.4	700-7 730-9
5	73+150	28' RT. AORF	8.3	20.7	700-7 720
6	81+105	28' RT. AORF	9.9	22.5	700-7 720
7	101+50	30' RT. C.ORG	3.0	7.8	700-7 730-9



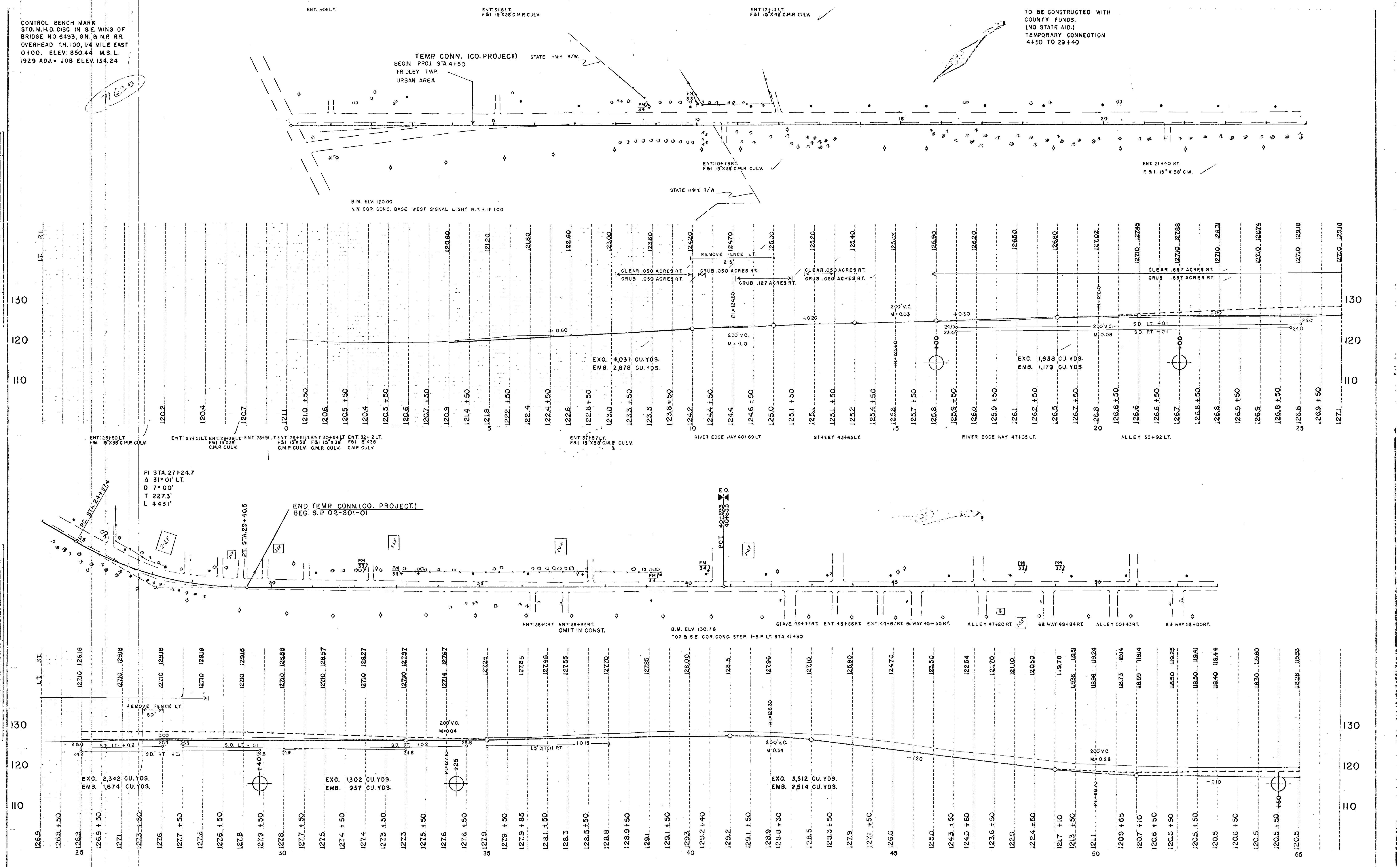
ADJUST MANHOLES  
 STA. 55+80 LT.  
 STA. 58+79 LT.  
 STA. 75+90 LT.





CONTROL BENCH MARK  
 STD. M.H.D. DISC IN S.E. WING OF  
 BRIDGE NO. 6493, GN. & N.P. RR.  
 OVERHEAD T.H. 100, 1/4 MILE EAST  
 0+00. ELEV. 850.44 M.S.L.  
 1929 ADJ. = JOB ELEV. 134.24

TO BE CONSTRUCTED WITH  
 COUNTY FUNDS.  
 (NO STATE AID.)  
 TEMPORARY CONNECTION  
 4+50 TO 29+40



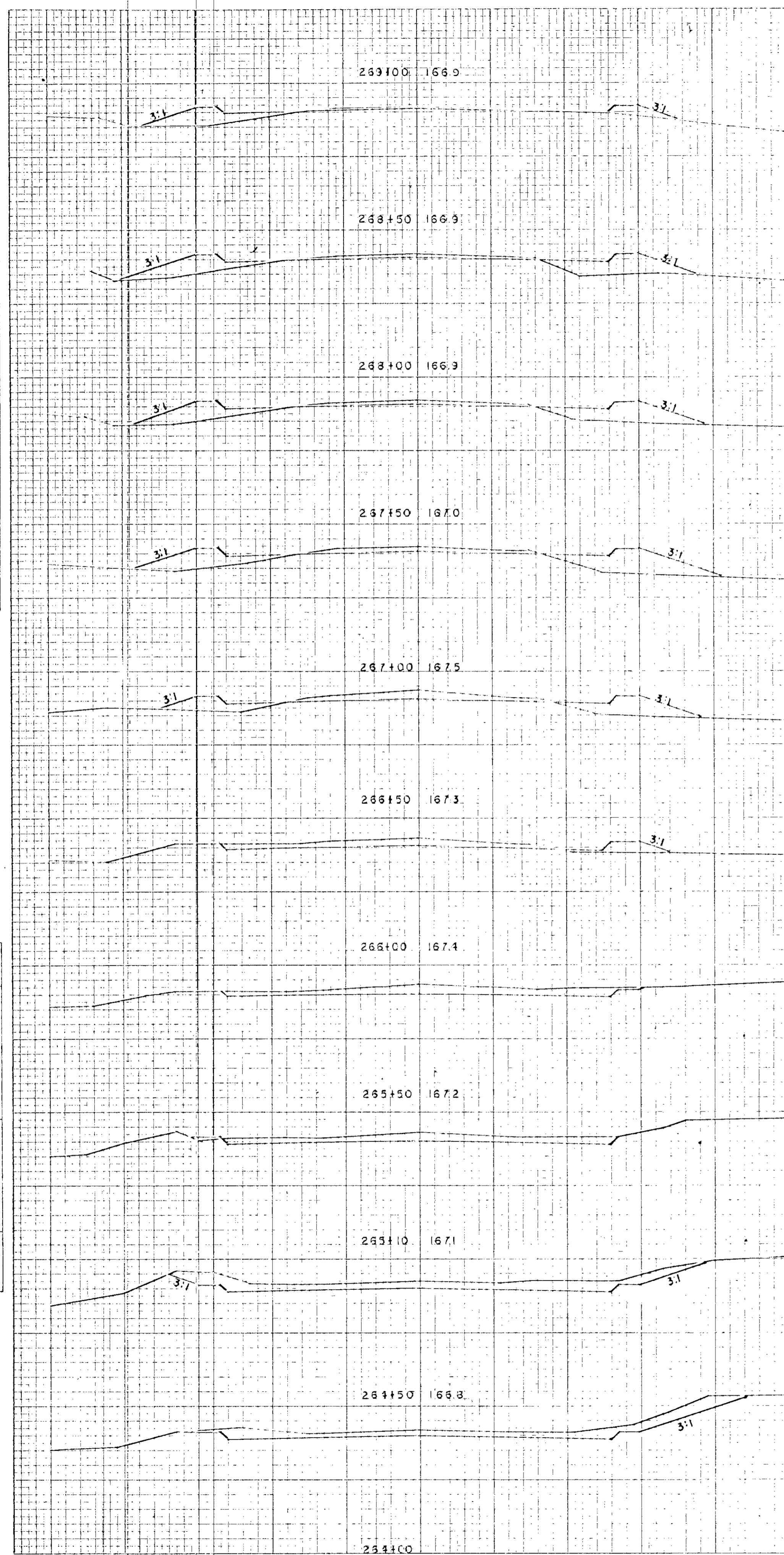




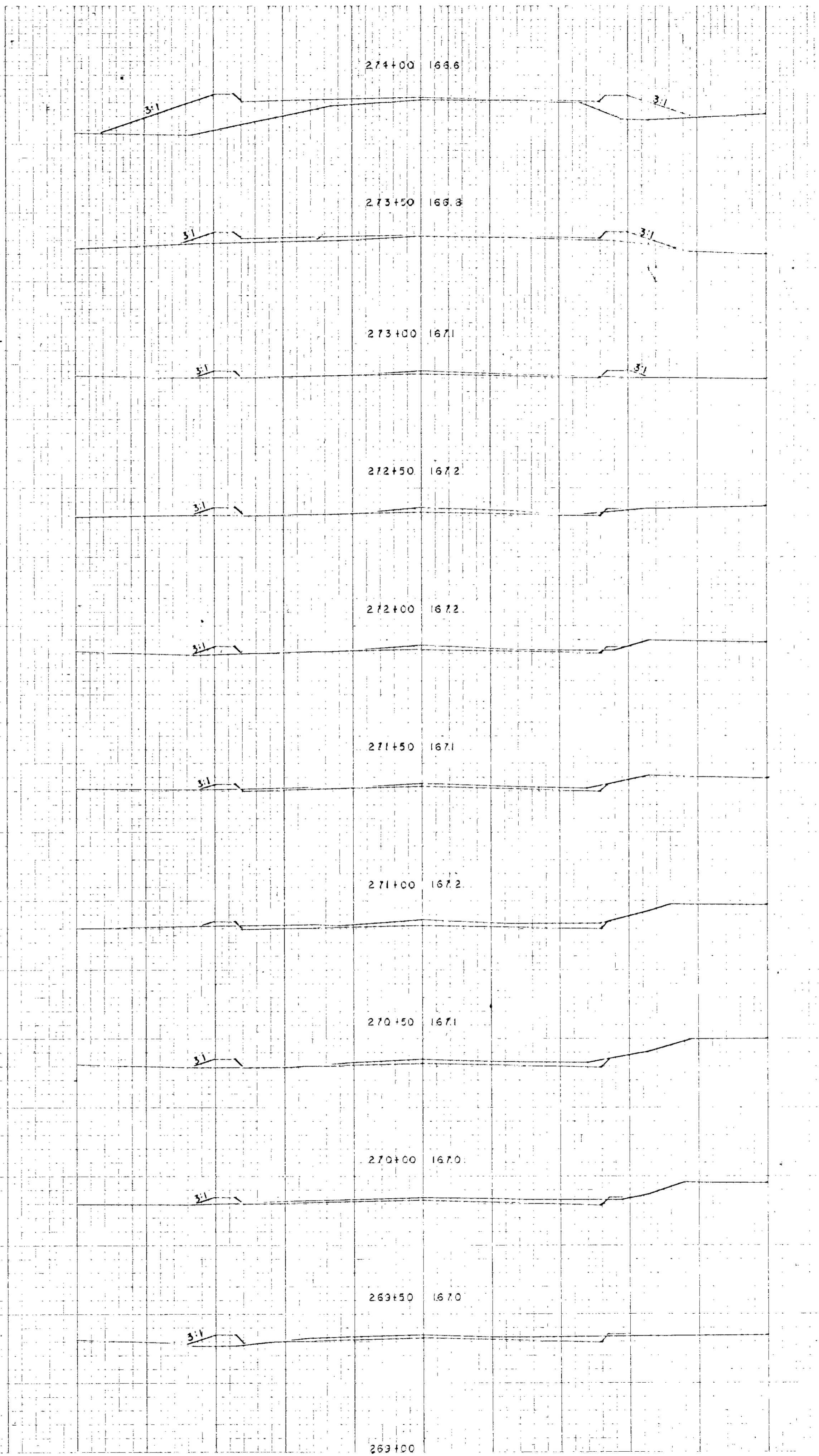


FINAL SURVEY SURVEYED BY [Name] DATE [Date]  
 NOTE BOOK NO. [Number] AREA [Area]

UNADJUSTED SURVEY SURVEYED BY [Name] DATE [Date]  
 NOTE BOOK NO. [Number] AREA [Area]



STATION	EXCAVATION	SETBACK	SETBACK
269+00	3	21	34
268+50	13	21	
268+00	1		64
267+50	18	117	
267+00	6		62
267+00	180	916	649
267+00	12		81
267+00	31	120	
267+00	25		13
266+50	58	58	
266+00	35		12
266+00	81	11	
265+50	53		0
265+50	23	1	
265+50	47		1
265+50	31	1	
265+10	78		0
265+10	182	0	
264+50	70		0
264+50	98	0	
264+00	36		0



STATION	EXCAVATION	SETBACK	SETBACK
274+00	0		153
273+50	0	153	
273+50	0		35
273+00	3	53	
272+50	9		3
272+50	13	16	
272+50	11		9
272+00	20	14	
272+00	11		6
271+50	22	3	
271+50	15		5
271+00	10	5	
271+00	10		2
270+50	47	5	
270+50	21		5
270+50	57	3	
270+00	19		5
269+50	54	16	
269+50	18		12
269+50	13	13	
269+00	3		31

PLATE 3 - CROSS SECTION D.P.R. & E. STANDARD  
 HOFFER & SIESS CO., NEW YORK  
 K & E CO. NO. 3453