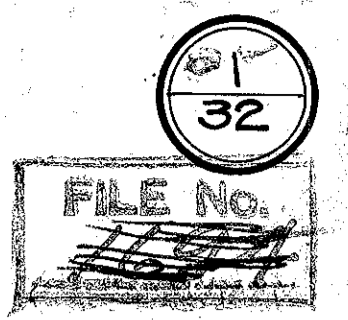


FED. RD. DIST. NO.	STATE	FED. AID PROJECT	FISCAL YEAR.
10	OHIO	257	1922



I.C.H. 22 SEC. T & U
SANDUSKY COUNTY

STATE OF OHIO
DEPARTMENT OF HIGHWAYS AND PUBLIC WORKS
DIVISION OF HIGHWAYS
BUREAU OF CONSTRUCTION

LIMA SANDUSKY ROAD

I.C.H. 22 - SEC. T & U - PET. No. 4475

SANDUSKY COUNTY

JACKSON TWP. MARCH, 1922.

CONVENTIONAL SIGNS

County Line	-----
Township Line	- - - - -
Section Line	- · - · -
Property Line not fenced	-----
Center Line	-----
City or Village Line	-----
Fence	-----
Telephone or Telegraph	TTTTTTT
Steam Railroad	=====
Electric Line	-----

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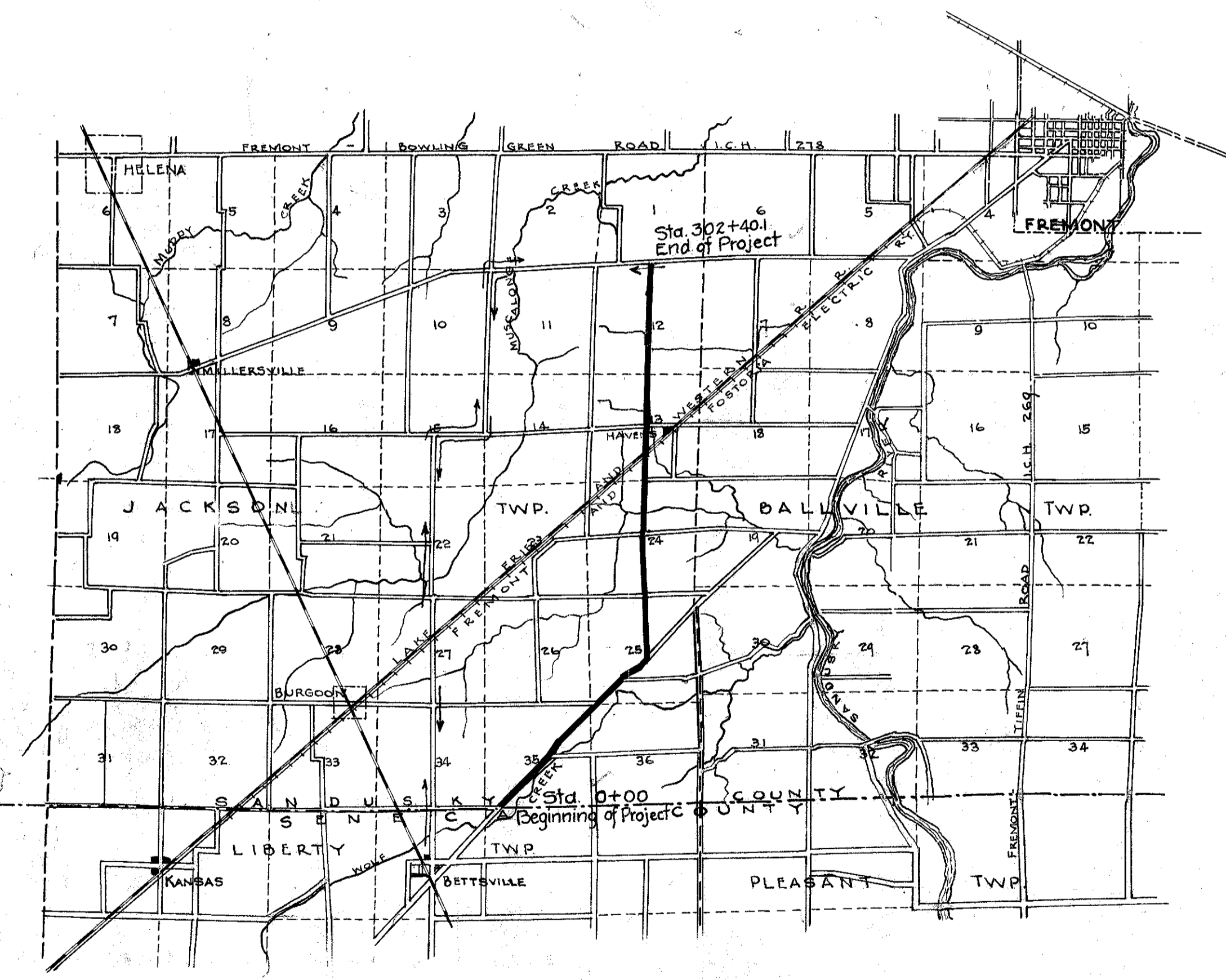
The Standard Specifications of the State of Ohio Division of Highways in force on date of contract will govern this improvement.

I hereby approve these plans and declare that the making of this improvement will require the closing to traffic of the highway and that detours will be provided as shown on the plan.

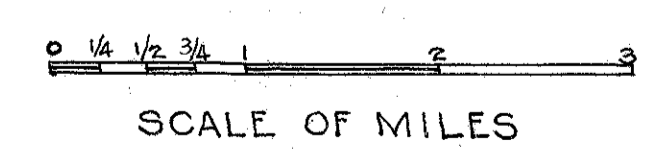
We, the Commissioners of Sandusky County hereby approve these plans and certify that the right-of-way is available for the construction, maintenance and repair of the above highway.

R. G. Rogers
H. J. Robinson
J. L. Clarke

Date 4-12-1922. County Commissioners.

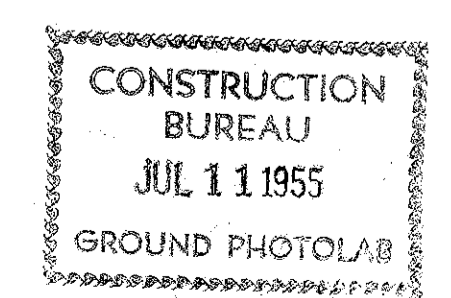


LOCATION PLAN



PORTION TO BE IMPROVED
DETOURS SHOWN THUS
SCALES
Plan 1" = 100' Profile (Vertical) 1" = 10'
Cross Sections 1" = 5' Profile (Horizontal) 1" = 100'

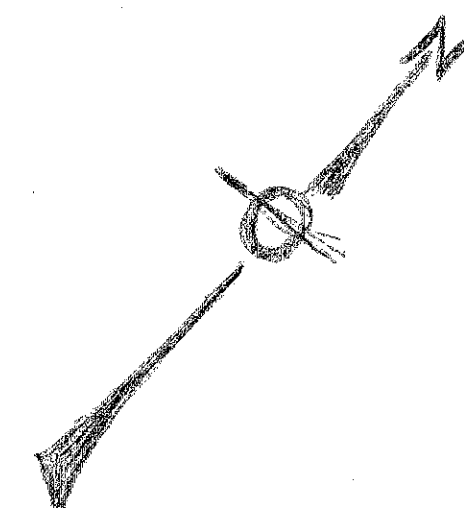
Approved Date 4-12-22 *L. N. Wilmar* Resident Engineer
Approved Date 4-13-22 *John F. Mallin* Division Engineer
Approved Date 4-27-22 *E. D. Power* State Highway Engineer
Approved Date 5-2-22 *Lem C. Henrich* Director of Highways and Public Works
Recommended for Approved Date _____ District Engineer, Bureau of Public Roads
Recommended for Approved Date _____ Chief Engineer, Bureau of Public Roads
Approved Date _____ Chief of Bureau.



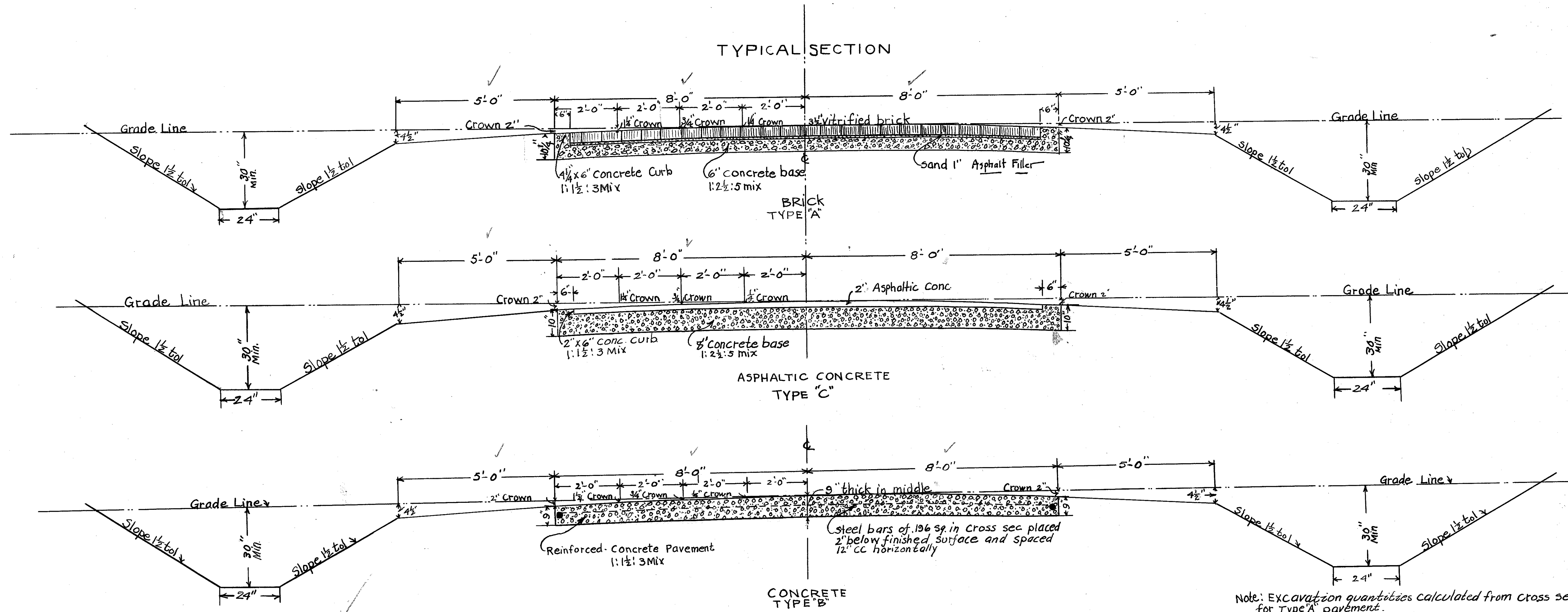
File # 19

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SANDUSKY CO.



TYPICAL SECTION

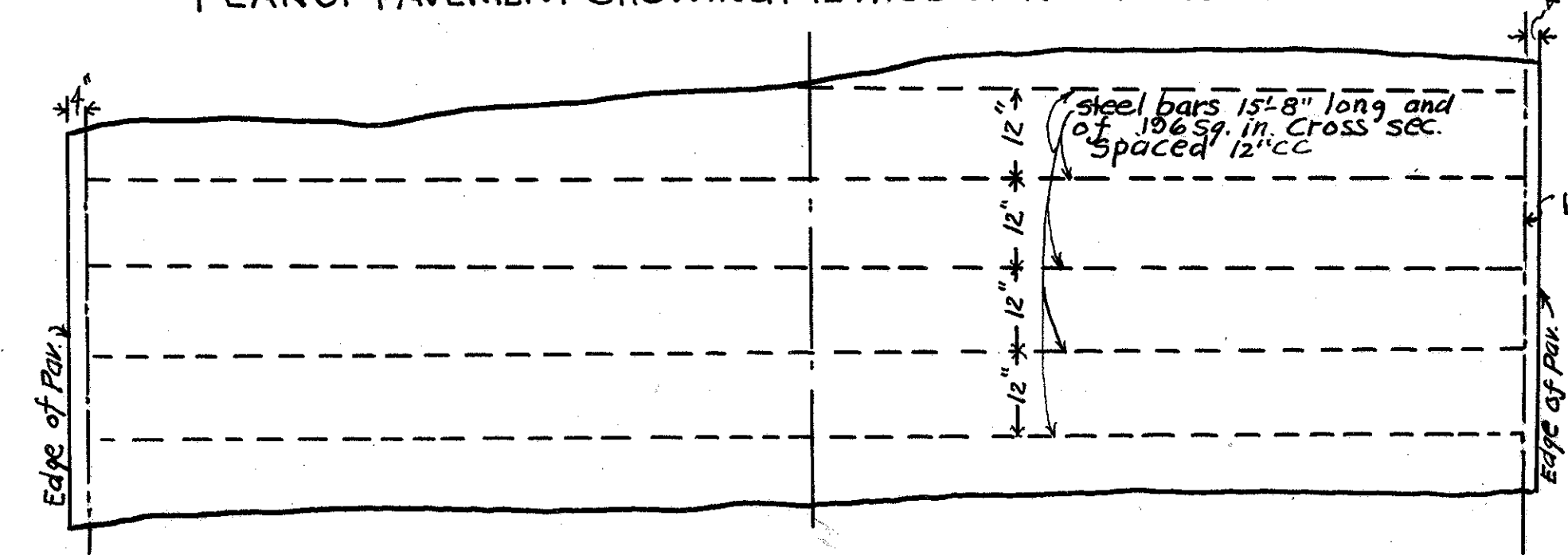


Note: Reinforce concrete base of Types A and C, also concrete pavement of Type B with 17-3/4 x 5 1/4 inch square steel bars spaced 12 inch across pavement and placed 2 inch above the bottom of base. This steel must be used in addition to any other reinforcing which is mentioned in Type B. This extra reinforcing is necessary on account Culverts crossing the pavement at the following mentioned stations

- Sta. 82+50
- .. 84+53
- .. 123+3
- .. 141+65
- .. 168+40
- .. 208+43.5
- .. 274+89

Amt of extra steel req. at each sta. as follows:
17-3/4 x 5 1/4 bars = 163 lbs.
Total for 7 Culverts = 1141 lbs.

PLAN OF PAVEMENT SHOWING METHOD OF REINFORCING



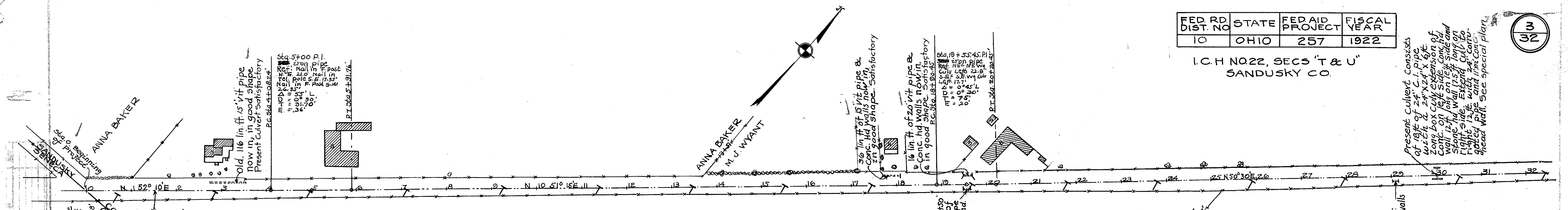
Note: Excavation quantities calculated from cross sections as plotted for Type A pavement.

Excavation for Type B pavement from Sta. 0 to Sta. 29, Sta. 32 to Sta. 47, Sta. 50 to Sta. 71, Sta. 74 to Sta. 84, Sta. 86 to Sta. 90, Sta. 97 to Sta. 113, Sta. 125 to Sta. 194, Sta. 200 to Sta. 230, Sta. 240 to Sta. 286, and Sta. 288+50 to Sta. 292. will be 1590 CU. Yds. less as follows:
21450 lin ft in cut
29 ft less cut per lin ft
72900 ft. cu. ft = 1590 CU. Yds.

Excavation for Type C pavement from Sta. 0 to Sta. 29, Sta. 32 to Sta. 47, Sta. 50 to Sta. 71, Sta. 74 to Sta. 84, Sta. 86 to Sta. 90, Sta. 97 to Sta. 113, Sta. 125 to Sta. 194, Sta. 200 to Sta. 230, Sta. 240 to Sta. 286, and Sta. 288+50 to Sta. 292 will be 530 CU. Yds. less as follows:
21450 lin ft in cut
139 ft less cut per lin ft
21450 + cu. ft = 530 CU. Yds.

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I. C. H. NO. 22, SECS 'T & U'
SANDUSKY CO.



Left			Right		
Edge of Pav	Wid	Sta	Gr. El.	Wid	Edge of Pav
700.12	8.00	3+38.24	700.28	8.00	700.18
700.02	8.00	3+38.24	700.18	8.00	700.06
699.92	8.00	4+08.24	700.08	8.00	700.01
699.82	8.00	4+38.24	699.98	8.00	699.95
699.72	8.00	4+38.24	699.88	8.00	699.90
699.64	8.00	4+78	699.80	8.00	699.82
699.54	8.00	5+00	699.70	8.00	699.72
699.44	8.00	5+25	699.60	8.00	699.62
699.36	8.00	5+41.76	699.52	8.00	699.54
699.26	8.00	5+66.76	699.42	8.00	699.39
699.16	8.00	5+91.76	699.32	8.00	699.24
699.06	8.00	6+16.76	699.22	8.00	699.10
698.96	8.00	6+41.76	699.12	8.00	698.96

No extra pavement

Left			Right		
Edge of Pav	Wid	Sta	Gr. El.	Wid	Edge of Pav
693.16	8.00	18+40.45	693.32	8.00	693.16
692.98	8.00	18+65.45	693.14	8.00	693.18
692.81	8.00	18+20.45	692.97	8.00	692.90
692.63	8.00	19+15.45	692.79	8.00	692.76
692.46	8.00	19+40.45	692.62	8.00	692.64
692.29	8.00	19+65.45	692.45	8.00	692.47
692.25	8.00	19+70.45	692.41	8.00	692.43
692.07	8.00	19+25.45	692.23	8.00	692.20
691.90	8.00	20+20.45	692.06	8.00	691.99
691.72	8.00	20+45.45	691.88	8.00	691.92
691.55	8.00	20+70.45	691.71	8.00	691.55

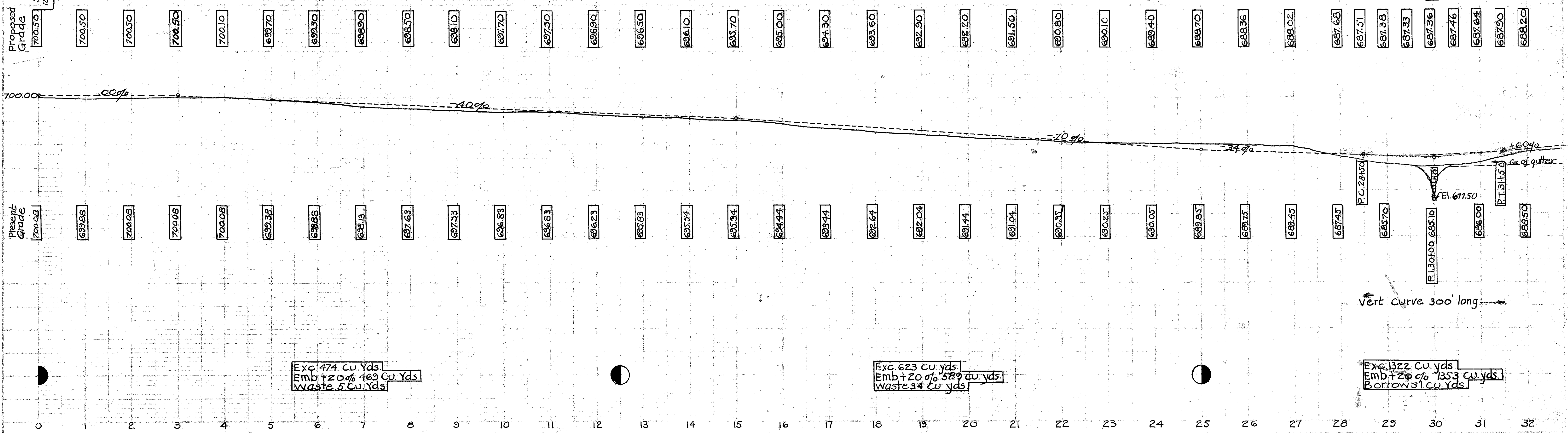
No extra pavement

B.M. Sta. 3+20'
Top NE of N. End
Lower step of N.
Steps House Left.
Elev. 702.55

Note: Grade Line shown is
Crown of finished pavement.

B.M. Sta. 18+
NE of Lower
Step House
Left.
Elev. 693.16

B.M. Sta. 30+10
N. W. of Left Head
Wall Conc
Culv.
Elev. 685.12



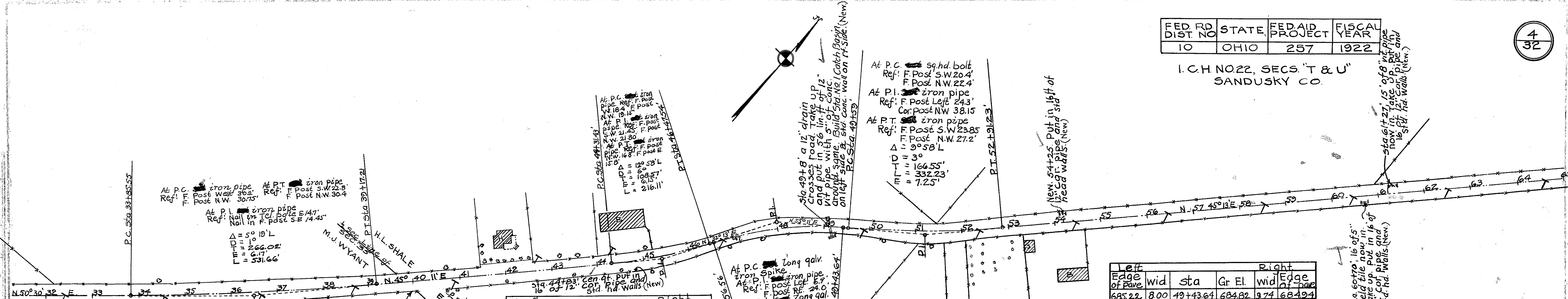
Exc. 474 Cu. Yds.
Emb + 20% 463 Cu. Yds.
Waste 5 Cu. Yds.

Exc. 623 Cu. Yds.
Emb + 20% 589 Cu. Yds.
Waste 34 Cu. Yds.

Exc. 1322 Cu. Yds.
Emb + 20% 1353 Cu. Yds.
Borrow 31 Cu. Yds.

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I. C. H. NO. 22, SECS. 'T & U'
SANDUSKY CO.



Left			Right		
Edge of Pav.	Wid	Sta	Gr. El.	Wid	Edge of Pav.
688.58	8.00	33+35.55	688.74	8.00	688.58
688.54	..	33+60.55	688.70	..	688.58
688.49	..	33+85.55	688.65	..	688.58
688.45	..	34+10.55	688.61	..	688.58
688.40	..	34+35.55	688.56	..	688.58
688.37	..	34+50	688.53	..	688.55
688.28	..	35+00	688.44	..	688.46
688.19	..	35+50	688.35	..	688.37
688.10	..	36+00	688.26	..	688.28
688.01	..	36+50	688.17	..	688.19
687.92	..	37+00	688.08	..	688.10
687.83	..	37+50	687.99	..	688.01
687.74	..	38+00	687.90	..	687.92
687.65	..	38+50	687.81	..	687.83
687.62	..	38+67.21	687.78	..	687.80
687.57	..	38+92.21	687.73	..	687.71
687.53	..	39+17.21	687.69	..	687.62
687.48	..	39+42.21	687.64	..	687.69
687.44	8.00	39+67.21	687.60	8.00	687.44

No extra Pavement.

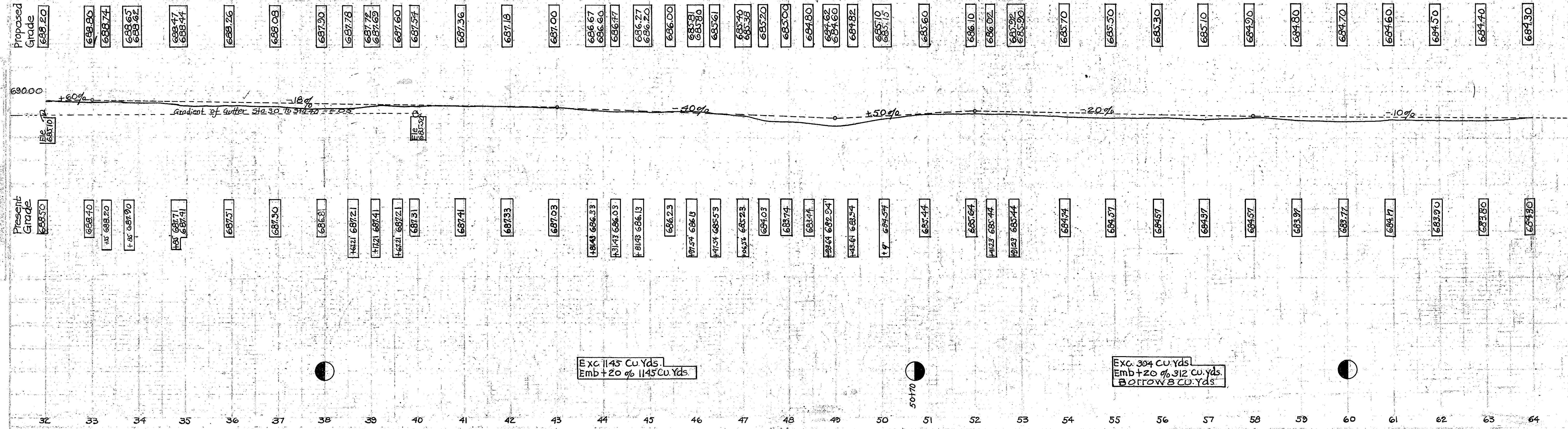
Left			Right		
Edge of Pav.	Wid	Sta	Gr. El.	Wid	Edge of Pav.
686.51	8.00	43+01.43	686.67	8.00	686.51
686.41	8.45	44+06.43	686.57	8.00	686.67
686.31	9.30	44+31.43	686.47	8.00	686.85
686.21	10.07	44+56.43	686.37	8.00	687.06
686.11	10.40	44+81.43	686.27	8.00	687.27
686.04	10.40	45+00	686.20	8.00	687.20
685.94	10.40	45+25	686.10	8.00	687.10
685.84	10.40	45+50	686.00	8.00	687.00
685.74	10.40	45+75	685.90	8.00	686.90
685.65	10.40	45+97.54	685.81	8.00	686.91
685.72	10.37	46+6.56	685.71	8.00	686.73
685.85	10.07	46+22.54	685.71	8.23	686.44
685.93	9.80	46+31.56	685.67	8.60	686.19
685.95	9.30	46+47.54	685.61	9.24	685.99
685.97	8.93	46+56.56	685.57	9.74	685.85

Extra pavement from Sta. 43+81.43 to Sta. 49+93.64 = 160.0.

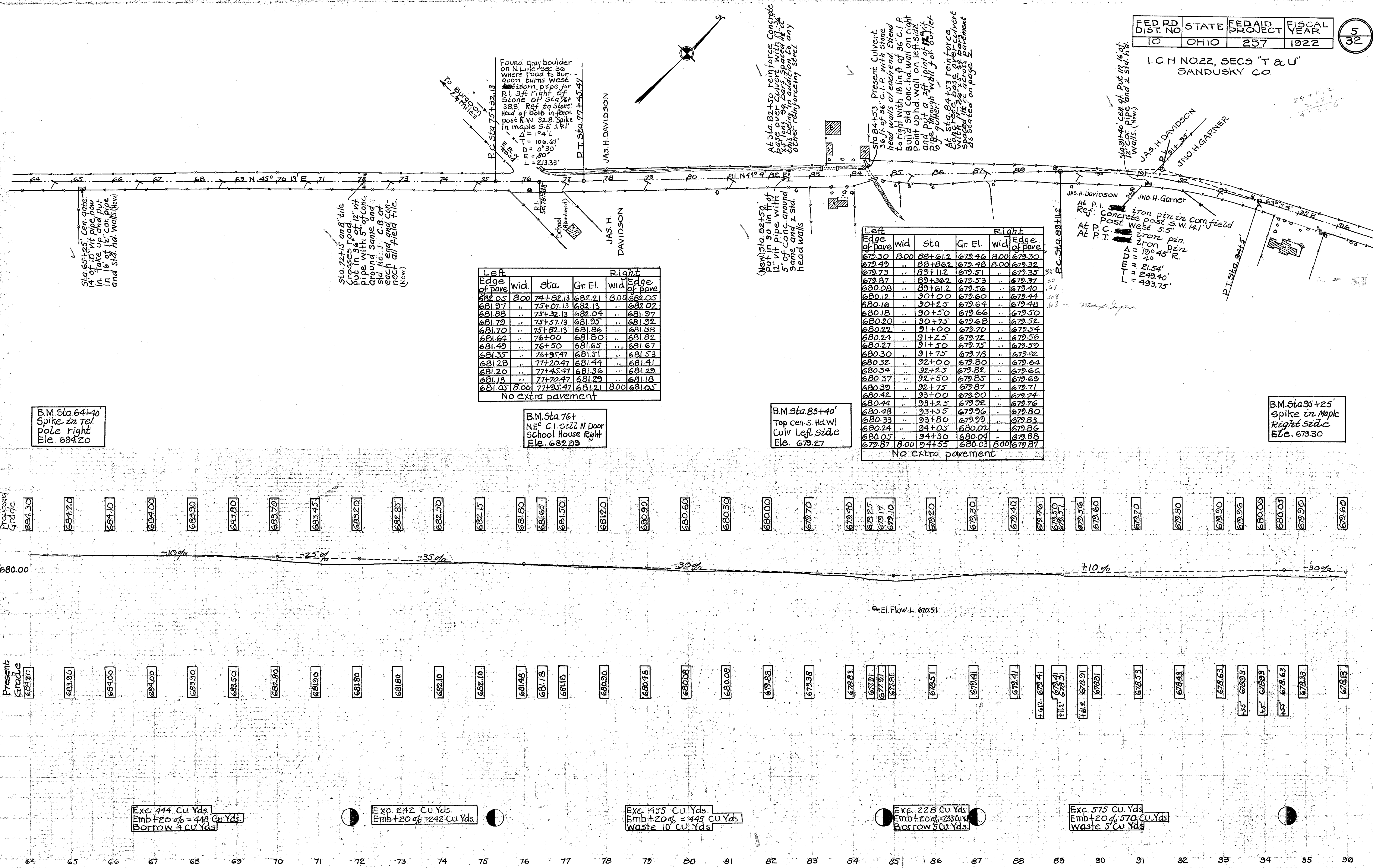
B.M. Sta. 47+ Spike in Walnut right. E.L. 684.72

Left			Right		
Edge of Pav.	Wid	Sta	Gr. El.	Wid	Edge of Pav.
685.97	8.93	46+56.56	685.57	9.74	685.85
686.12	8.45	46+72.54	685.57	10.38	685.61
686.20	8.18	46+81.54	685.47	10.98	685.48
686.36	8.00	46+97.54	685.41	11.10	685.25
686.42	8.00	47+06.56	685.37	11.20	685.21
686.35	8.00	47+25	685.30	11.20	685.14
686.25	8.00	47+50	685.20	11.20	685.04
686.15	8.00	47+75	685.10	11.20	684.94
686.05	8.00	48+00	685.00	11.20	684.84
685.95	8.00	48+25	684.90	11.20	684.74
685.85	8.00	48+50	684.80	11.20	684.64
685.75	8.00	48+75	684.70	11.20	684.54
685.68	8.00	48+93.64	684.63	11.20	684.47
685.53	8.00	49+09	684.65	10.98	684.49
685.42	8.00	49+18.64	684.69	10.74	684.64
685.30	8.00	49+34	684.77	10.21	684.90
685.22	8.00	49+43.64	684.82	9.74	684.94

Left			Right		
Edge of Pav.	Wid	Sta	Gr. El.	Wid	Edge of Pav.
685.22	8.00	49+43.64	684.82	9.74	684.94
685.10	8.00	49+59	684.90	9.00	685.00
685.04	8.00	49+68.64	684.94	8.60	685.11
685.95	8.00	49+84	685.09	8.05	685.31
684.91	8.00	49+93.64	685.07	8.00	685.38
684.99	8.00	50+09	685.15	8.00	685.50
685.06	8.00	50+25	685.22	8.00	685.57
685.19	8.00	50+50	685.35	8.00	685.70
685.31	8.00	50+75	685.47	8.00	685.82
685.44	8.00	51+00	685.60	8.00	685.95
685.52	8.00	51+25	685.72	8.00	686.03
685.69	8.00	51+50	685.85	8.00	686.20
685.81	8.00	51+75	685.97	8.00	686.32
685.94	8.00	52+00	686.10	8.00	686.45
685.89	8.00	52+25	686.05	8.00	686.40
685.85	8.00	52+41.23	686.00	8.00	686.36
685.79	8.00	52+66.23	685.95	8.00	686.17
685.74	8.00	52+91.23	685.90	8.00	686.00
685.69	8.00	53+16.23	685.85	8.00	685.98
685.64	8.00	53+41.23	685.80	8.00	685.64



I. C. H. NO. 22, SECS "T & U"
SANDUSKY CO.



Left			Right		
Edge of pave	wid	sta	Gr. El.	Wid	Edge of pave
682.05	8.00	74+82.13	682.21	8.00	682.05
681.97	..	75+07.13	682.13	..	682.02
681.88	..	75+32.13	682.04	..	681.97
681.79	..	75+57.13	681.95	..	681.92
681.70	..	75+82.13	681.86	..	681.88
681.64	..	76+00	681.80	..	681.82
681.49	..	76+50	681.65	..	681.67
681.35	..	76+95.47	681.51	..	681.53
681.28	..	77+20.47	681.44	..	681.41
681.20	..	77+45.47	681.36	..	681.29
681.13	..	77+70.47	681.29	..	681.18
681.05	8.00	77+95.47	681.21	8.00	681.05

No extra pavement

Left			Right		
Edge of pave	wid	sta	Gr. El.	Wid	Edge of pave
679.30	8.00	88+61.2	679.46	8.00	679.30
679.49	..	88+86.2	679.48	8.00	679.32
679.73	..	89+11.2	679.51	..	679.35
679.87	..	89+36.2	679.53	..	679.37
680.08	..	89+61.2	679.56	..	679.40
680.12	..	90+00	679.60	..	679.44
680.16	..	90+25	679.64	..	679.48
680.18	..	90+50	679.66	..	679.50
680.20	..	90+75	679.68	..	679.52
680.22	..	91+00	679.70	..	679.54
680.24	..	91+25	679.72	..	679.56
680.27	..	91+50	679.75	..	679.59
680.30	..	91+75	679.78	..	679.62
680.32	..	92+00	679.80	..	679.64
680.34	..	92+25	679.82	..	679.66
680.37	..	92+50	679.85	..	679.69
680.39	..	92+75	679.87	..	679.71
680.42	..	93+00	679.90	..	679.74
680.44	..	93+25	679.92	..	679.76
680.48	..	93+50	679.96	..	679.80
680.53	..	93+80	679.99	..	679.83
680.24	..	94+05	680.02	..	679.86
680.05	..	94+30	680.04	..	679.88
679.87	8.00	94+55	680.03	8.00	679.87

No extra pavement

B.M. Sta. 64+40
Spike in tel pole right
Ele. 684.20

B.M. Sta. 76+
NE^c C.I. Sill N. Door
School House Right
Ele. 682.29

B.M. Sta. 83+40'
Top cen. s. Hd. Wl.
Culv Left side
Ele. 679.27

B.M. Sta. 95+25'
Spike in Maple
Right side
Ele. 679.30

Exc. 444 Cu. Yds.
Emb + 20% = 448 Cu. Yds.
Borrow 4 Cu. Yds.

Exc. 242 Cu. Yds.
Emb + 20% = 242 Cu. Yds.

Exc. 455 Cu. Yds.
Emb + 20% = 445 Cu. Yds.
Waste 10 Cu. Yds.

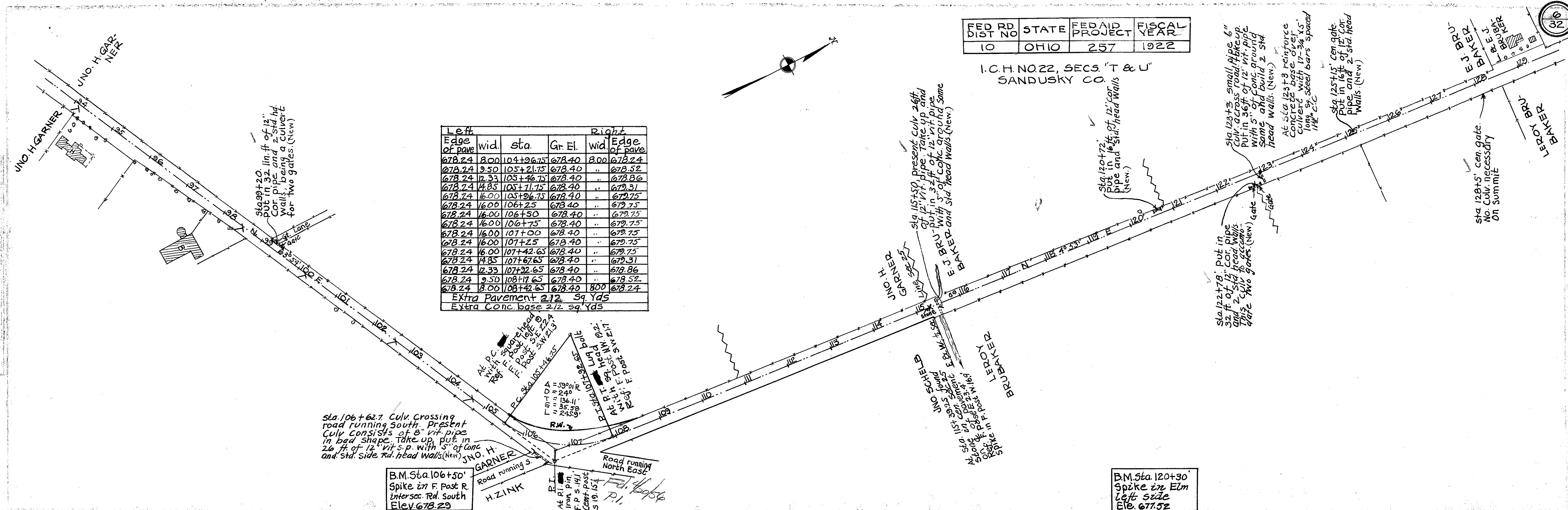
Exc. 228 Cu. Yds.
Emb + 20% = 233 Cu. Yds.
Borrow 5 Cu. Yds.

Exc. 575 Cu. Yds.
Emb + 20% = 570 Cu. Yds.
Waste 5 Cu. Yds.

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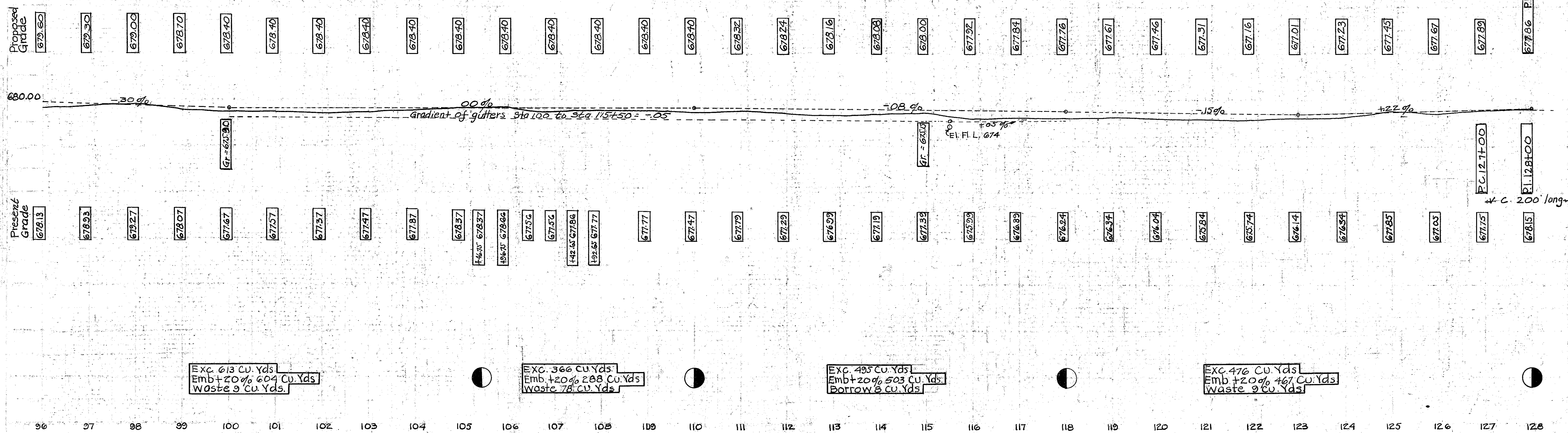
Left		Right	
Edge of pave	wid. sta.	Gr. El.	Edge of pave
678.24	8.00	104+26.75	678.40
678.24	9.50	105+21.75	678.40
678.24	12.33	105+46.75	678.40
678.24	4.85	105+71.75	678.40
678.24	16.00	105+96.75	678.40
678.24	16.00	106+25	678.40
678.24	16.00	106+50	678.40
678.24	16.00	106+75	678.40
678.24	16.00	107+00	678.40
678.24	16.00	107+25	678.40
678.24	16.00	107+42.65	678.40
678.24	14.85	107+67.65	678.40
678.24	12.33	107+92.65	678.40
678.24	9.50	108+17.65	678.40
678.24	8.00	108+42.65	678.40
Extra Pavement 2.12 sq Yds			
Extra Conc. base 2.12 sq Yds			



Sta. 106+62.7. Culv. Crossing road running south. Present Culv. consists of 8" vit. pipe in bad shape. Take up, put in 26" ft. of 12" vit. s.p. with 5' of Conc. and std. side rd. head walls (New).

B.M. Sta. 106+50' Spike in F. Post R. Intersec. Rd. South Elev. 678.29

B.M. Sta. 120+30 Spike in Elm Left side Elev. 677.52



Exc. 613 Cu. Yds.
Emb +20% 604 Cu. Yds.
Waste 9 Cu. Yds.

Exc. 366 Cu. Yds.
Emb +20% 288 Cu. Yds.
Waste 78 Cu. Yds.

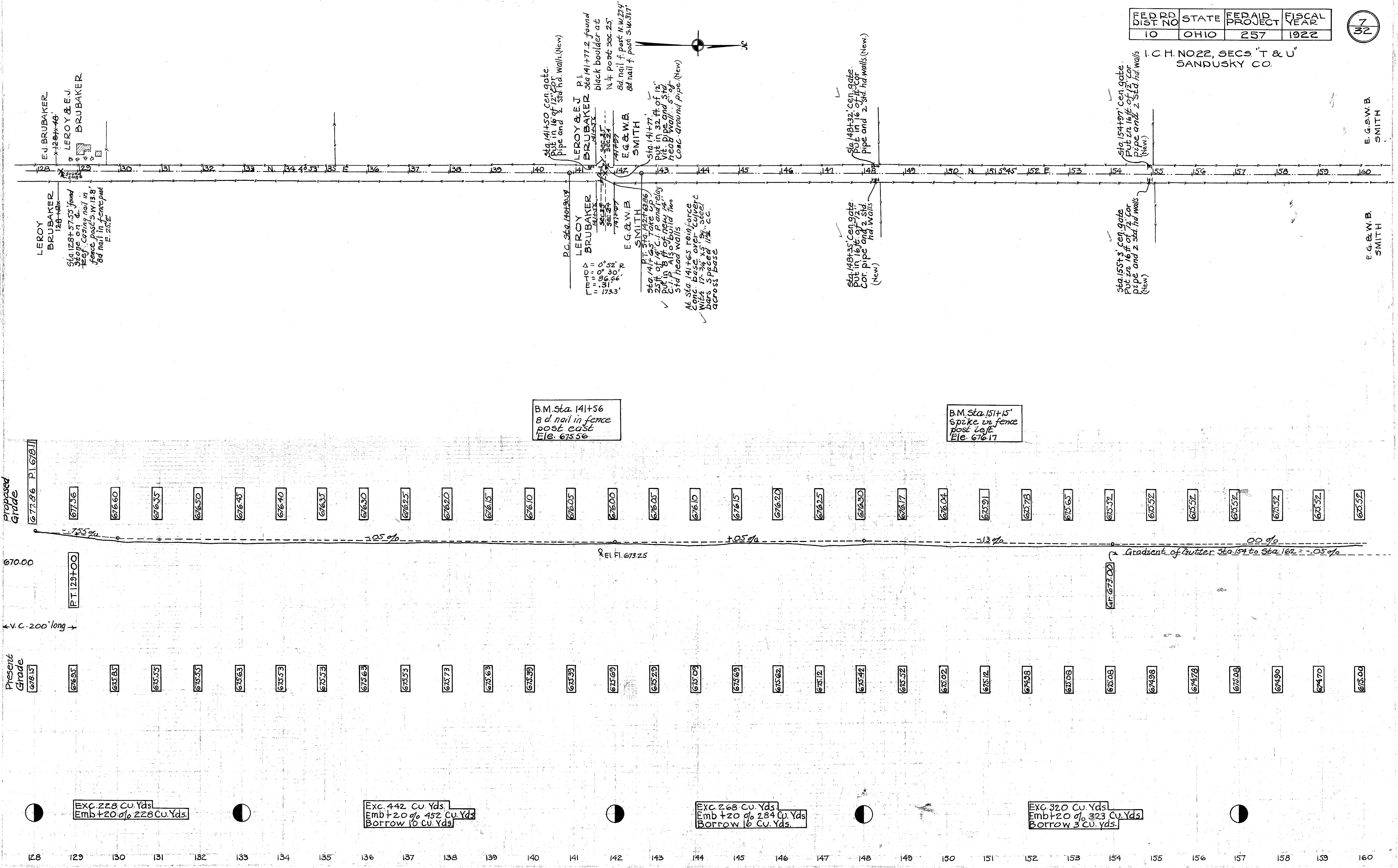
Exc. 495 Cu. Yds.
Emb +20% 503 Cu. Yds.
Borrow 8 Cu. Yds.

Exc. 476 Cu. Yds.
Emb +20% 467 Cu. Yds.
Waste 9 Cu. Yds.

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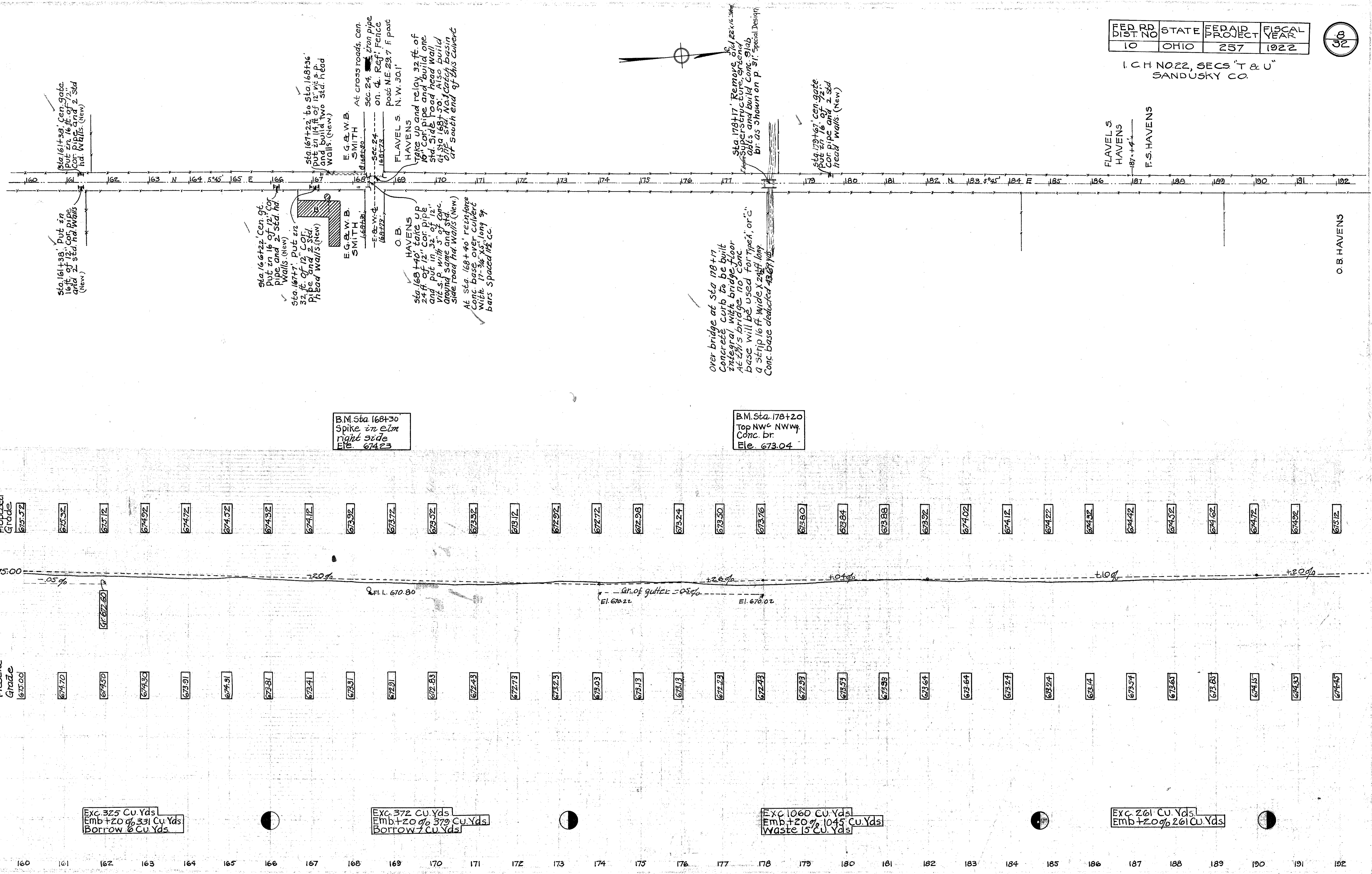
I. C. H. NO 22, SECS 'T & U'
SANDUSKY CO.



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I. C. H. NOZZ, SECS "T & U"
SANDUSKY CO.



B.M. Sta. 168+30
Spike in elm
right side
Ele. 674.23

B.M. Sta. 178+20
Top NW corner
Conc. br.
Ele. 673.04

Exc. 325 Cu. Yds.
Emb +20% 331 Cu. Yds.
Borrow 6 Cu. Yds.

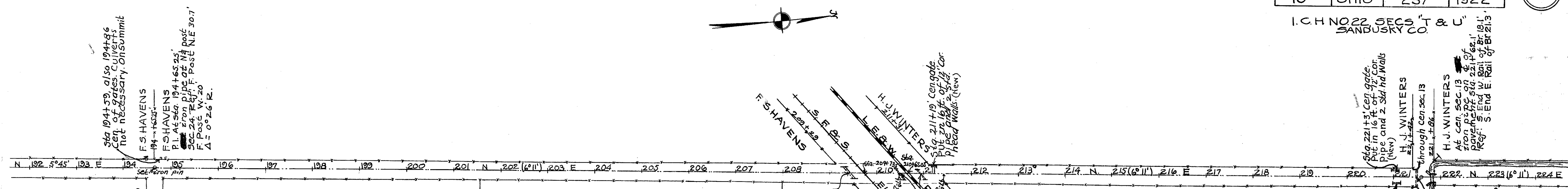
Exc. 372 Cu. Yds.
Emb +20% 379 Cu. Yds.
Borrow 7 Cu. Yds.

Exc. 1060 Cu. Yds.
Emb +20% 1045 Cu. Yds.
Waste 15 Cu. Yds.

Exc. 261 Cu. Yds.
Emb +20% 261 Cu. Yds.

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I.C.H. NO. 22 S.F.C.S. 'T & U'
SANBURY CO.



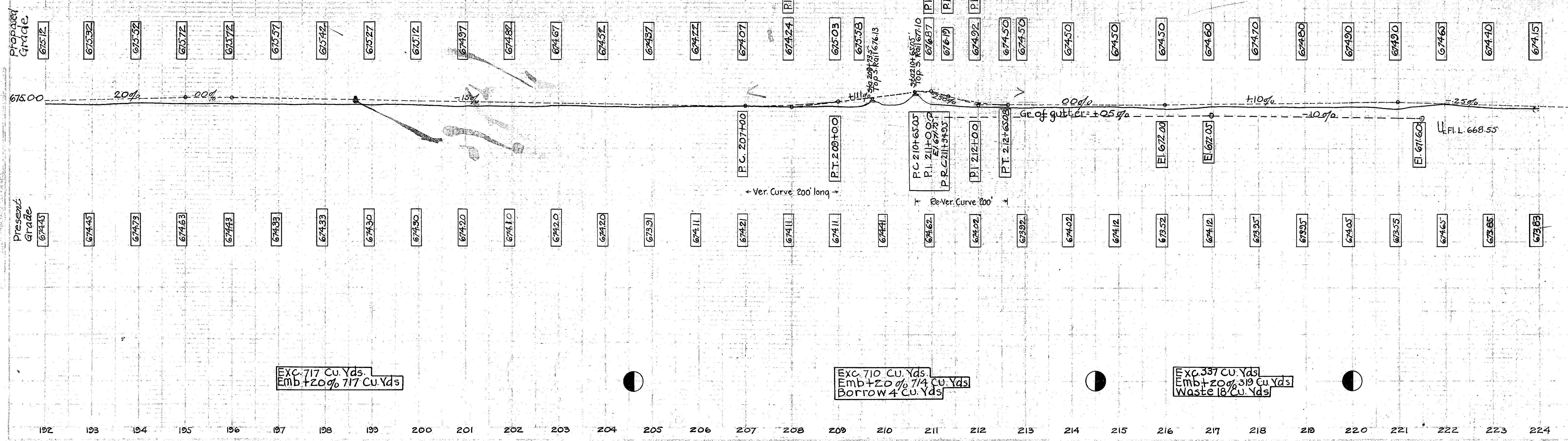
Where this road crosses the S.F. & S.R.R. track and also the L.E. & W.R.R. track the road will not be paved for a distance of 10 ft. wide measured at right angles to the center line of said rail roads. Deduct the following quantities for each crossing:
 59 yds. of conc. base (A.O.R.C.) 24.1
 Lin. Ft. of Corbing (A.O.R.C.) 24.8
 Add for each crossing (A.O.R.C.) 27.0
 Lin. Ft. of 6 conc. curb for heads 40.6
 Deduct for Type B
 Sq. Yds. of Pavmt. 24.1

B.M. Sta. 193+20
Spike in fence post east side
Elev. 675.75

B.M. Sta. 209+30
Spike in large fence post east
Elev. 674.73

B.M. Sta. 213+30
Spike in ash tree west side
Elev. 674.70

B.M. Sta. 221+87
Top n. end e. rail
Elev. 676.01



Exc. 717 Cu. Yds.
Emb. +20% 717 Cu. Yds.

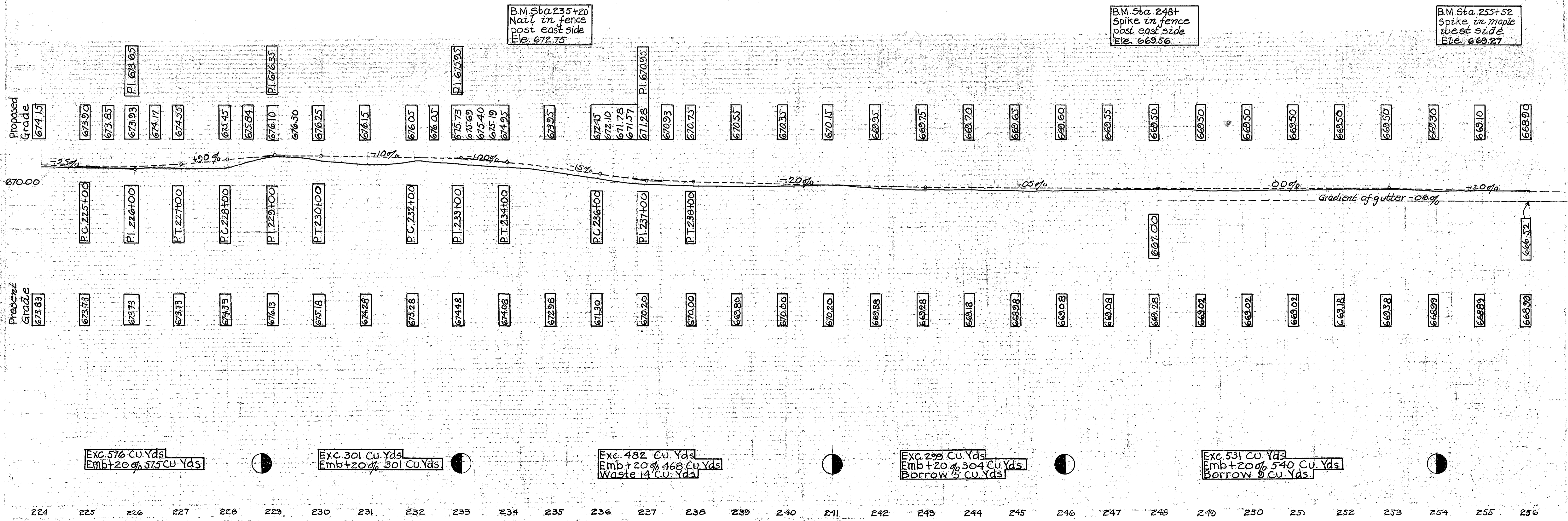
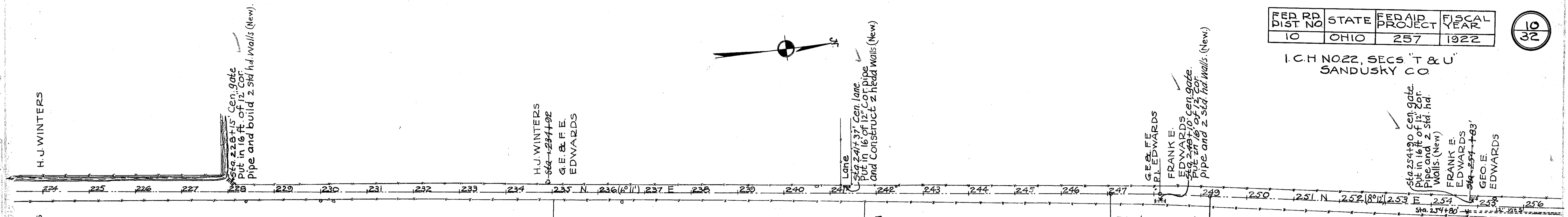
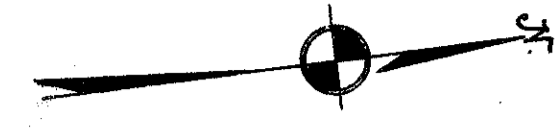
Exc. 710 Cu. Yds.
Emb. +20% 714 Cu. Yds.
Borrow 4 Cu. Yds.

Exc. 337 Cu. Yds.
Emb. +20% 319 Cu. Yds.
Waste 18 Cu. Yds.

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I.C.H NO. 22, SECS 'T & U'
SANDUSKY CO



B.M. Sta. 235+20
Nail in fence
post east side
Ele. 672.75

B.M. Sta. 248+
Spike in fence
post east side
Ele. 669.56

B.M. Sta. 255+52
Spike in maple
west side
Ele. 669.27

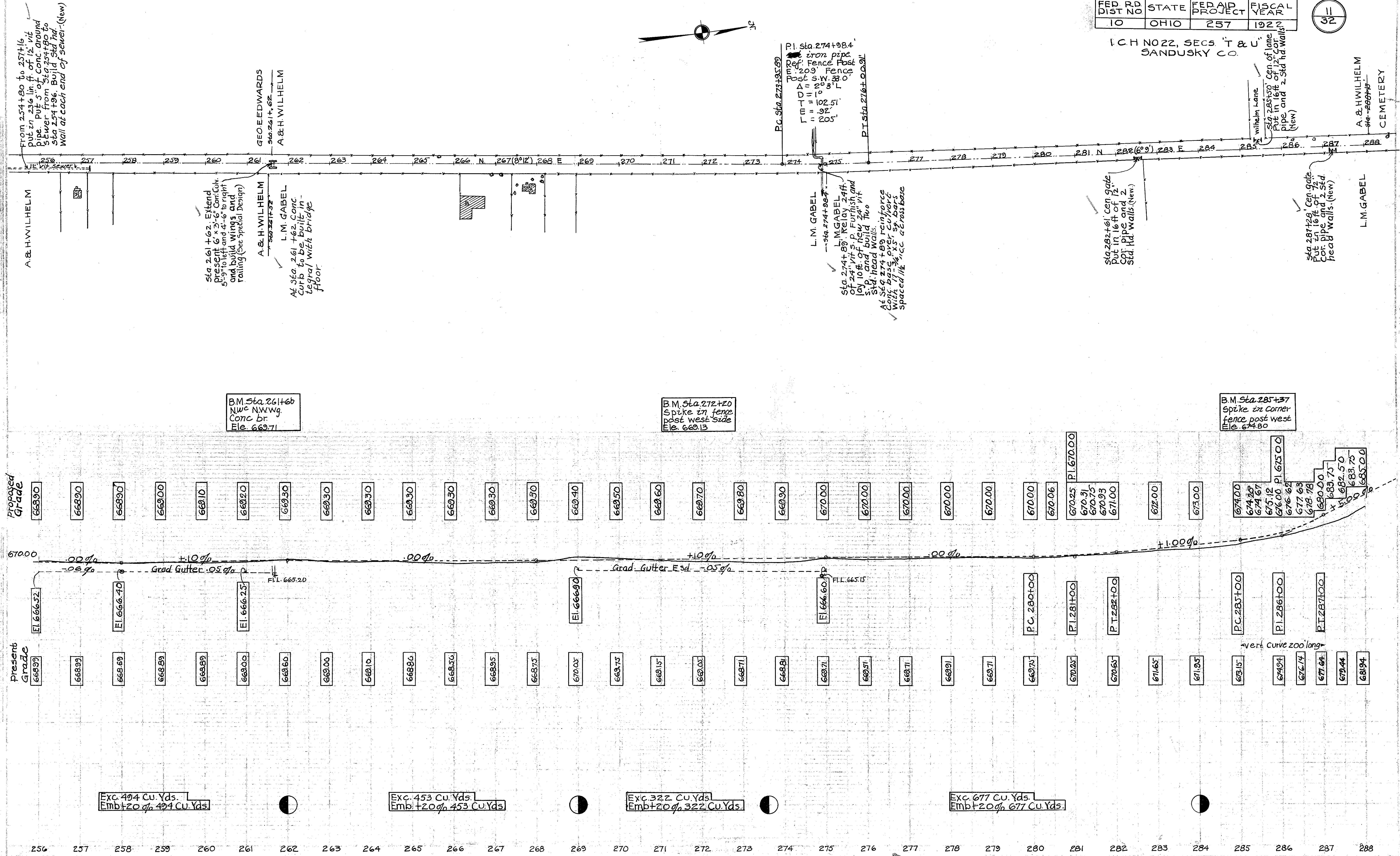
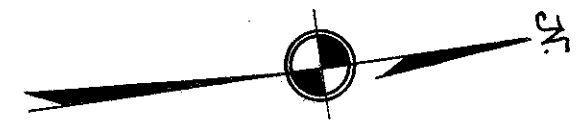
P.C. Sta. 247+141'
P.I. Sta. 248+122'
P.T. Sta. 249+103'
P.C. Sta. 250+103'
P.I. Sta. 251+103'
P.T. Sta. 252+103'

A. & H. WILHELM

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B.M. Sta. 261+66
N.W. corner
Conc. br.
Elev. 669.71

B.M. Sta. 272+20
Spike in fence
post west side
Elev. 669.13

B.M. Sta. 285+37
Spike in corner
fence post west
Elev. 674.80

Exc. 494 Cu. Yds.
Emb + 20.0% 494 Cu. Yds.

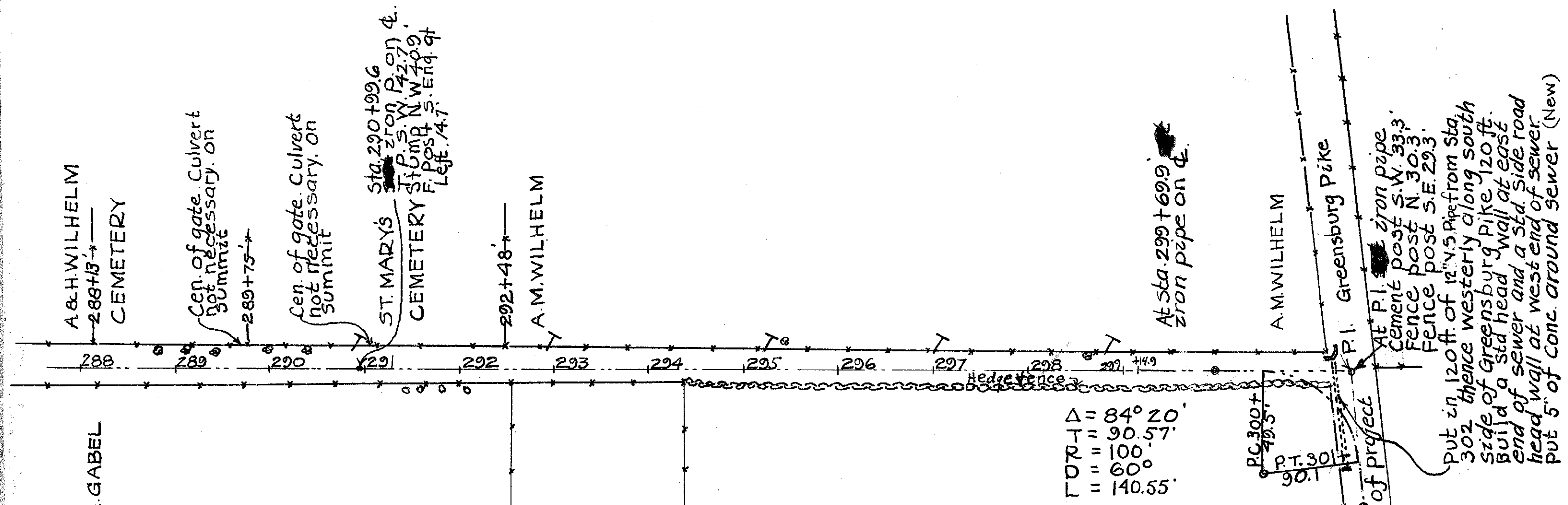
Exc. 453 Cu. Yds.
Emb + 20.0% 453 Cu. Yds.

Exc. 322 Cu. Yds.
Emb + 20.0% 322 Cu. Yds.

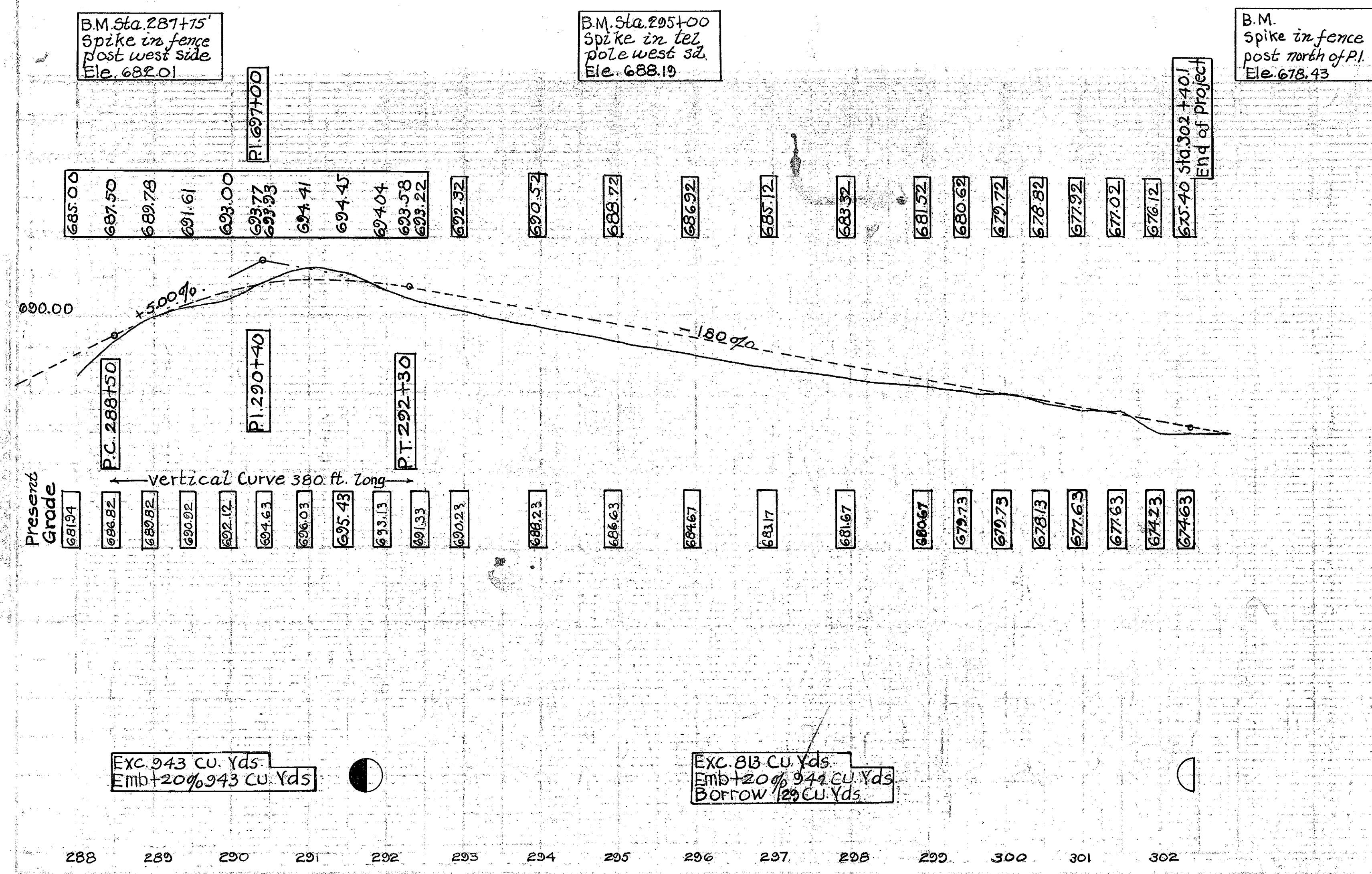
Exc. 677 Cu. Yds.
Emb + 20.0% 677 Cu. Yds.

Station	Present Grade	Proposed Grade
256	668.99	668.90
257	668.99	668.90
258	668.69	668.90
259	668.89	669.00
260	668.89	669.10
261	669.00	669.20
262	668.60	669.30
263	669.00	669.30
264	669.10	669.30
265	668.80	669.30
266	668.50	669.30
267	668.95	669.30
268	668.75	669.30
269	670.05	669.40
270	669.75	669.50
271	669.15	669.60
272	669.05	669.70
273	668.71	669.80
274	668.81	669.90
275	669.71	670.00
276	669.51	670.00
277	669.71	670.00
278	669.91	670.00
279	669.71	670.00
280	669.75	670.00
281	670.25	670.06
282	670.65	670.00
283	671.65	672.00
284	671.95	673.00
285	673.15	674.00
286	674.94	675.00
287	676.14	680.00
288	677.64	682.50
	679.44	683.75
	681.94	685.00

I.C.H. NO. 22, SECS 'T & U'
SANDUSKY CO.



Left			Right		
Edge of pave	Wid	Sta.	Gr. El.	Wid	Edge of pave
679.56	8.00	299+99.5	679.72	8.00	679.56
679.38	"	300+24.5	679.27	9.50	679.11
679.30	"	300+49.5	678.89	12.33	678.66
679.29	"	300+74.5	678.37	14.85	678.21
679.27	"	300+99.5	677.92	16.00	677.76
678.92	"	301+24.5	677.47	16.00	677.31
678.54	"	301+40.1	677.19	16.00	677.03
677.66	"	301+65.1	676.74	14.85	676.58
676.77	"	301+90.1	676.29	12.33	676.13
675.95	"	302+15.1	675.84	9.50	675.68
675.24	8.00	302+40.1	675.40	8.00	675.24
Extra Pavement 115 Sq. Yds					
Extra Conc base 115 Sq. Yds					



Exc. 943 Cu. Yds.
Emb + 20% 943 Cu. Yds

Exc. 813 Cu. Yds.
Emb + 20% 943 Cu. Yds.
Borrow 129 Cu. Yds

288 289 290 291 292 293 294 295 296 297 298 299 300 301 302

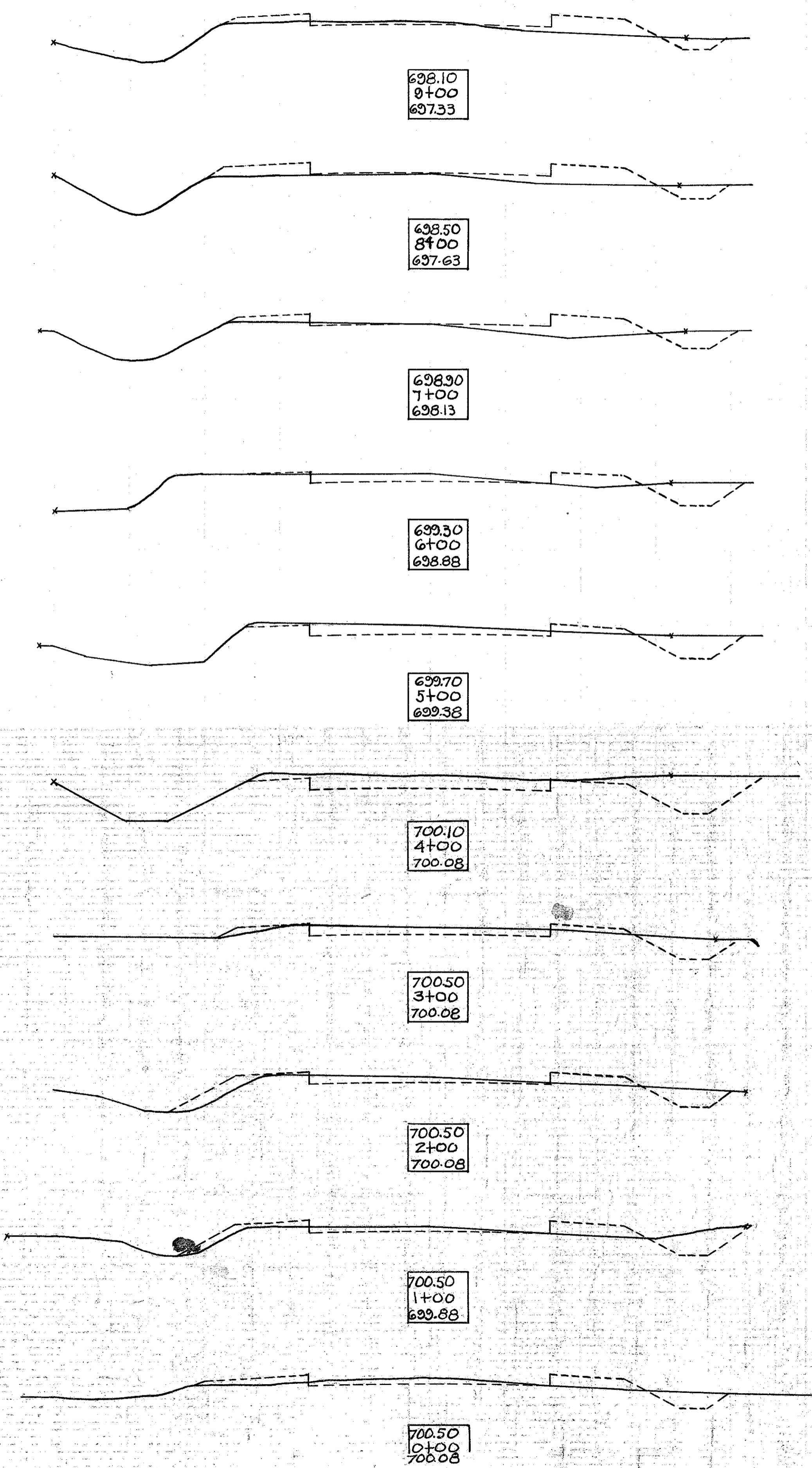
FED RD DIST NO	STATE	FED AID PROJECT	FISCAL YEAR
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I. C. H. NO 22, SECS 'T & U'
SANDUSKY CO.

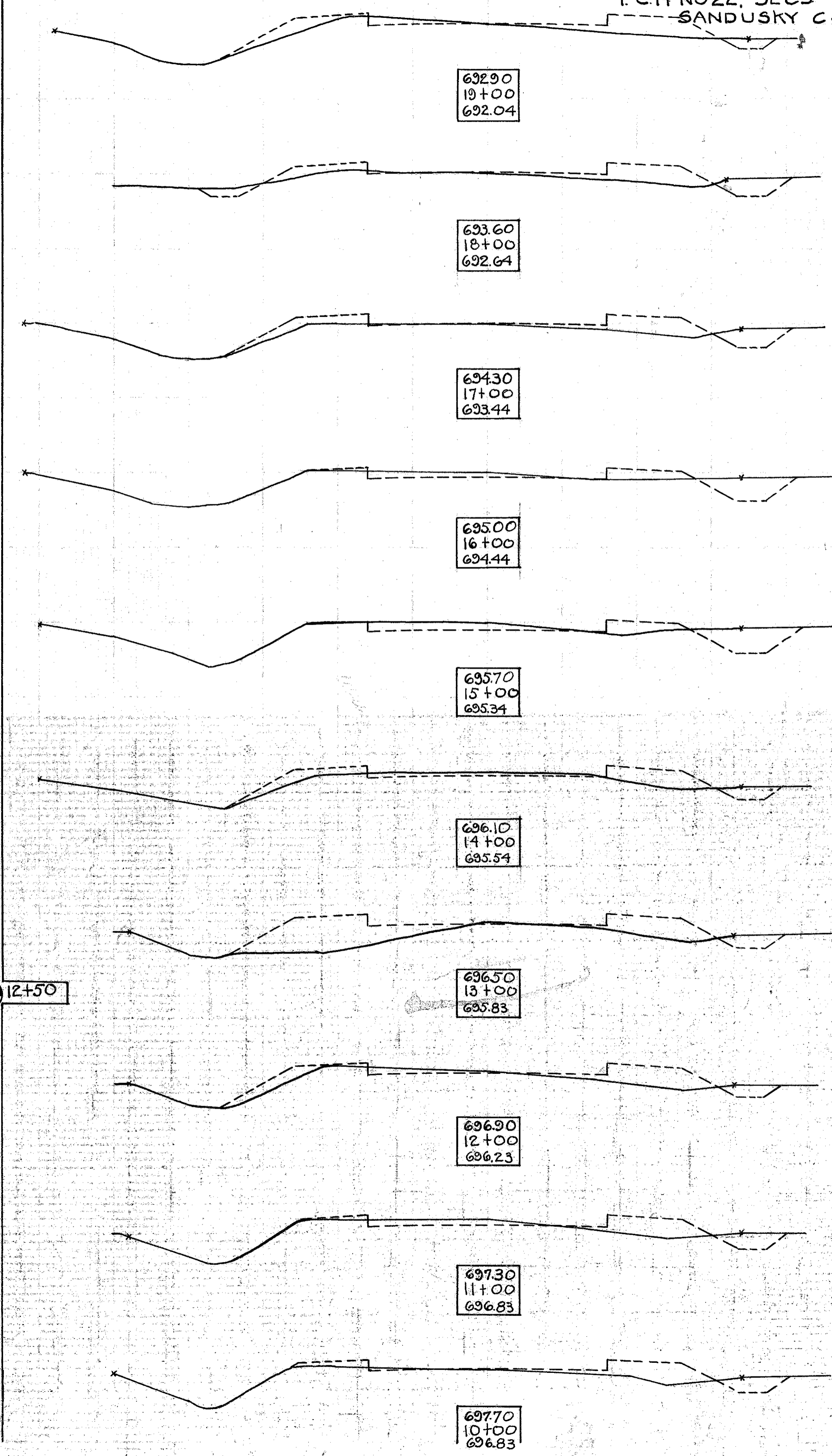
End Area		Cu. Yds	
Cut	Fill	Cut	Fill
3.25	9.75		
		10.6	47.2
2.25	15.75		
		11.1	53.7
3.5	13.25		
		31.5	33.7
13.5	5.0		
		57.4	133
17.5	2.25		
		89.3	4.1
30.75	0.0		
		84.6	6.9
15	3.75		
		48.1	20.7
11.0	7.5		
		38.9	24.8
10.0	7.0		
		37	29.1
10	8.75		

Exc. 474 Cu. Yds.
Emb. 391 Cu. Yds.



End Area		Cu. Yds	
Cut	Fill	Cut	Fill
1.5	14.5		
		12.4	47.6
5.25	11.25		
		16.7	45.4
3.75	13.25		
		27.8	32.8
11.25	4.5		
		46.7	17.6
14.0	4.0		
		37.4	3.0
62.5	12.25		
		16.7	78.1
27.5	3.0		
		6.7	40.9
		6.8	40.6
4.5	14		
		23.5	43
82.5	9.25		
		22.2	35.6
3.75	10.0		
		13	36.5

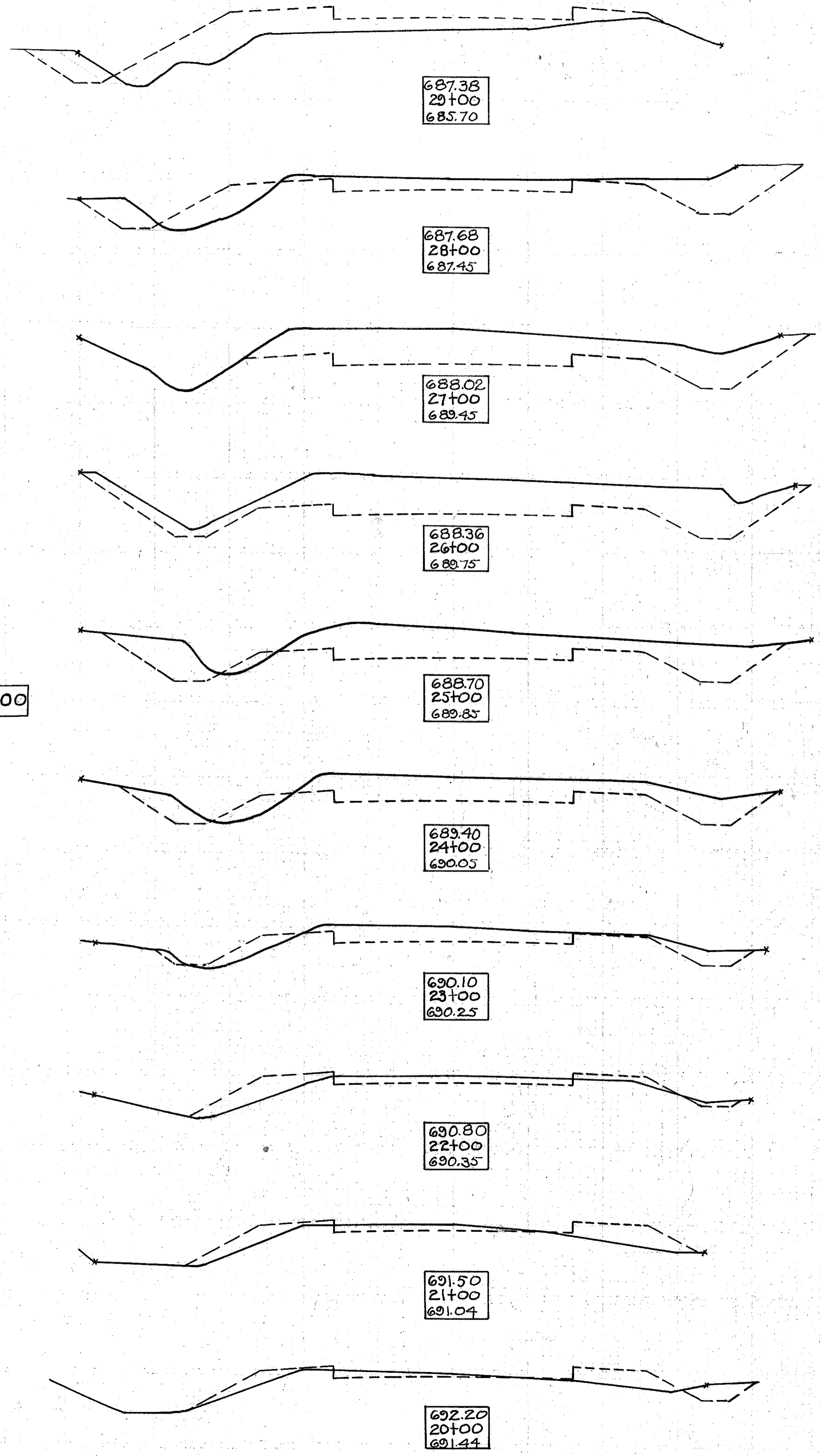
12+50



End Area		Cu. Yds	
Cut	Fill	Cut	Fill
6.75	4.3	17.2	
		81.9	100.4
37.5	11.25	4.5	
		199.5	20.7
70.25	0.0		
		292.2	00.0
86.5	0.0		
		288.3	3.7
66.5	2		
		215.8	9.8
50	3.75		
		132.4	16.0
21.5	5.0		
		53.1	3.0
7.25	11.25		
		22.6	48.5
5.0	15		
		20.7	46.7
6.25	10.25		
		14.0	47.6

Exc. 623 Cu. Yds.
Emb. 491 Cu. Yds.

25+00



687.38
29+00
685.70

687.68
28+00
687.45

688.02
27+00
689.45

688.36
26+00
689.75

688.70
25+00
689.85

689.40
24+00
690.05

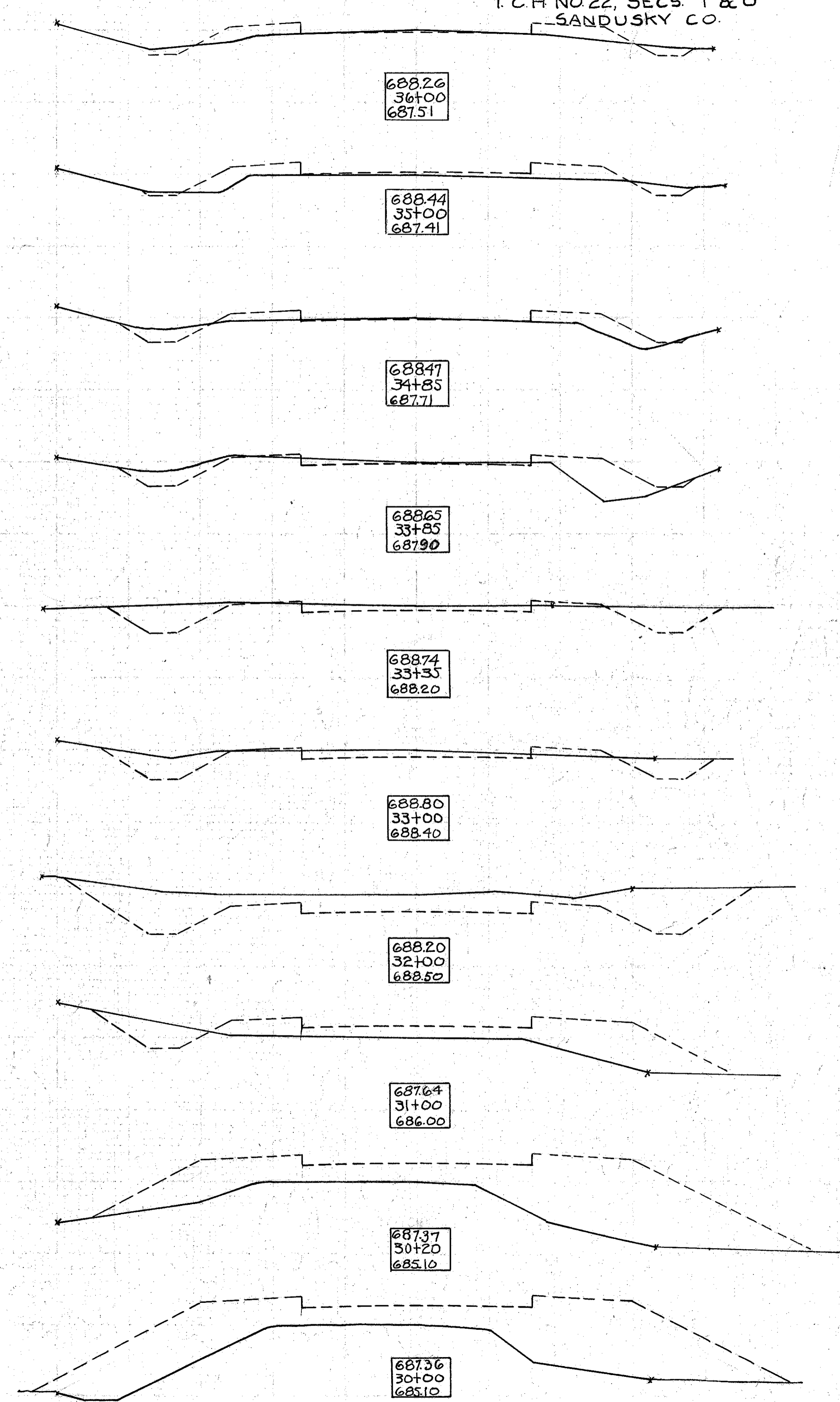
690.10
23+00
690.25

690.80
22+00
690.35

691.50
21+00
691.04

692.20
20+00
691.44

End Area		C.U. Yds	
Cut	Fill	Cut	Fill
2.25	9.5		
		9.3	17.2
2.75	16		
		2.0	7.6
4.25	11.5		
		25.9	47.2
9.75	14		
		50.7	26.3
22.5	2.75		
		174.4	5.0
71.92	0.0		
		149.1	91.1
8.75	49.2		
		12.9	252.2
0.0	121.05		
		0.0	98.3
0.0	144.35		
		12.4	346.9



688.26
36+00
687.51

688.44
35+00
687.41

688.97
34+85
687.71

688.65
33+85
687.90

688.74
33+35
688.20

688.80
33+00
688.40

688.20
32+00
688.60

687.64
31+00
686.00

687.37
30+20
685.10

687.36
30+00
685.10

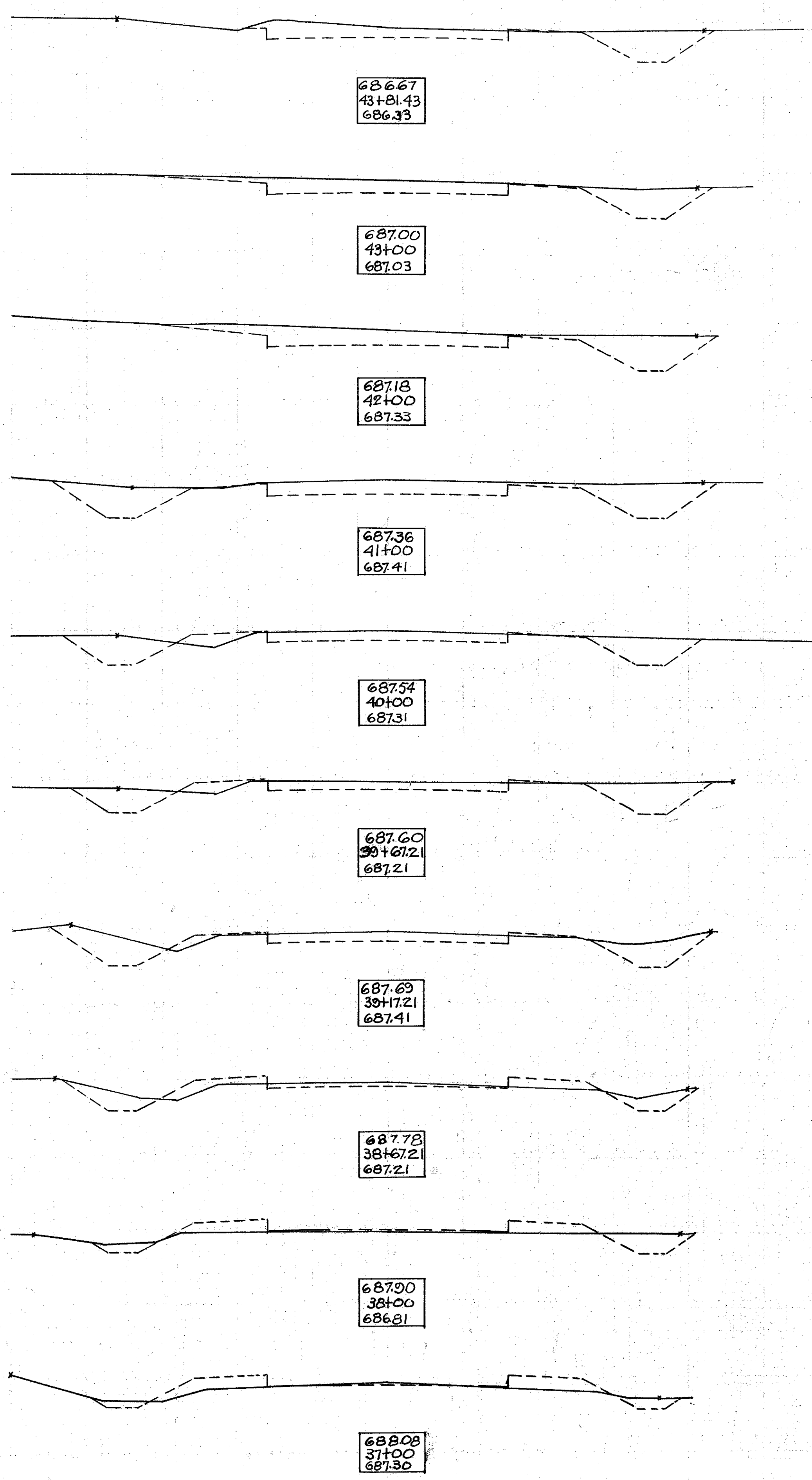
FED RD DIST NO	STATE	FED AID PROJECT	FISCAL YEAR
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I. C. H. NO 22, SECS. "T & U"
SANDUSKY CO.

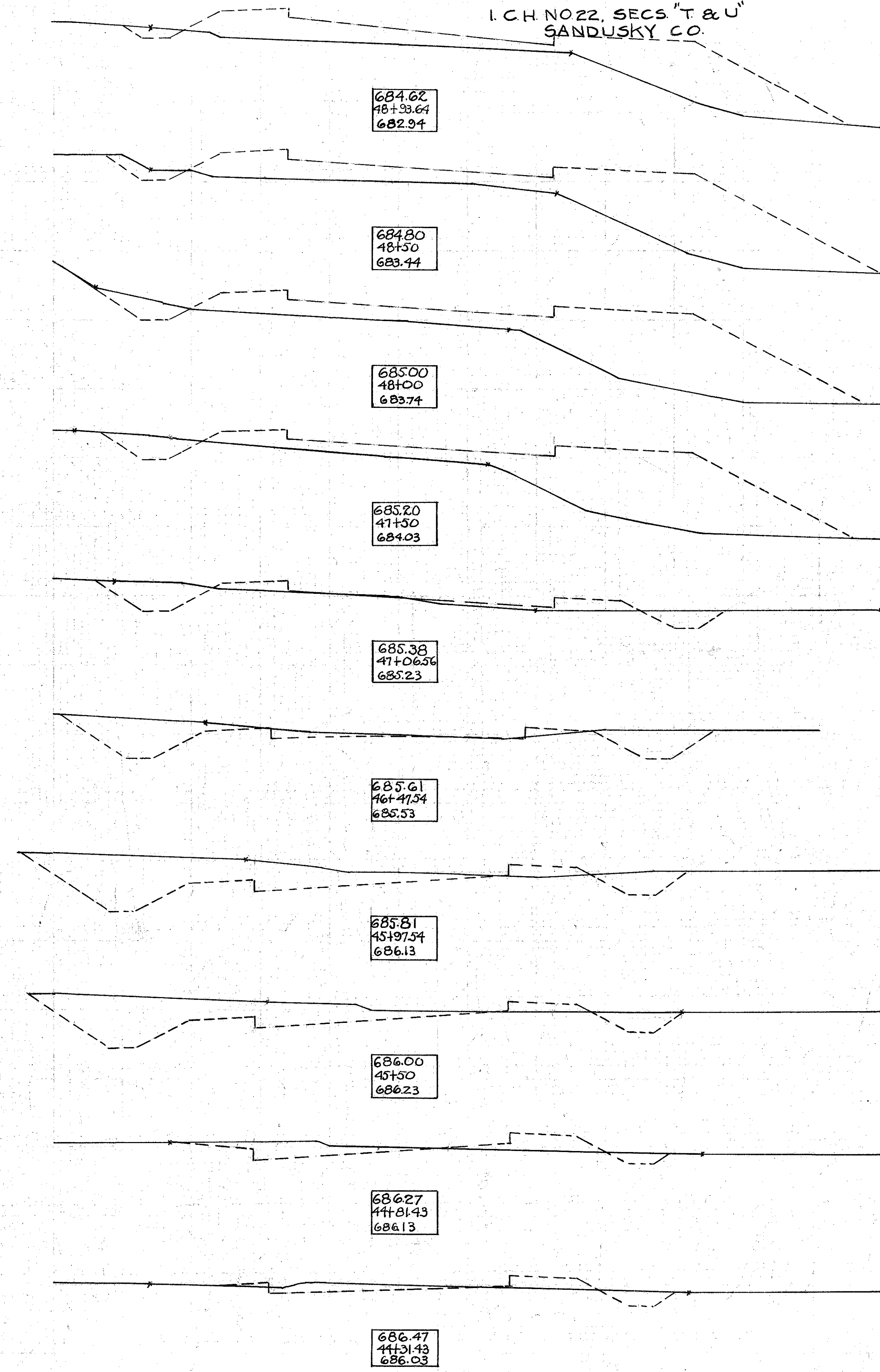
I. C. H. NO. 22, SECS. "T & U"
SANDUSKY CO.

End Area		Cu. Yds.	
Cut	Fill	Cut	Fill
2.425	0.0		
		74.2	0.0
25.0	0.0		
		111.1	0.0
3.5	0.0		
		141.1	0.0
41.25	0.0		
		127.8	7.4
2.775	4.0		
		33.4	3.4
2.725	1.50		
		51.8	6.0
28.75	3.0		
		39.3	9.7
13.75	7.5		
		26.1	2.2
7.25	10.25		
		18.9	41.7
2.00	12		
		9.6	33.8

Exc. 1322 Cu. Yds
Emb 1125 Cu. Yds
38+00



End Area		Cu. Yds.	
Cut	Fill	Cut	Fill
2.5	84.5		
		5.0	161.1
3.75	11.50		
		9.9	212.5
7.0	114.5		
		13.4	207.4
7.5	109.5		
		19.4	96
16.75	10		
		36.4	12.2
3.5	1.25		
		91.4	5.7
63.75	4.75		
		106.9	7.5
5.75	3.75		
		90.5	14.2
13.5	7.5		
		21.3	12.7
9.5	6.25		
		31.2	5.7



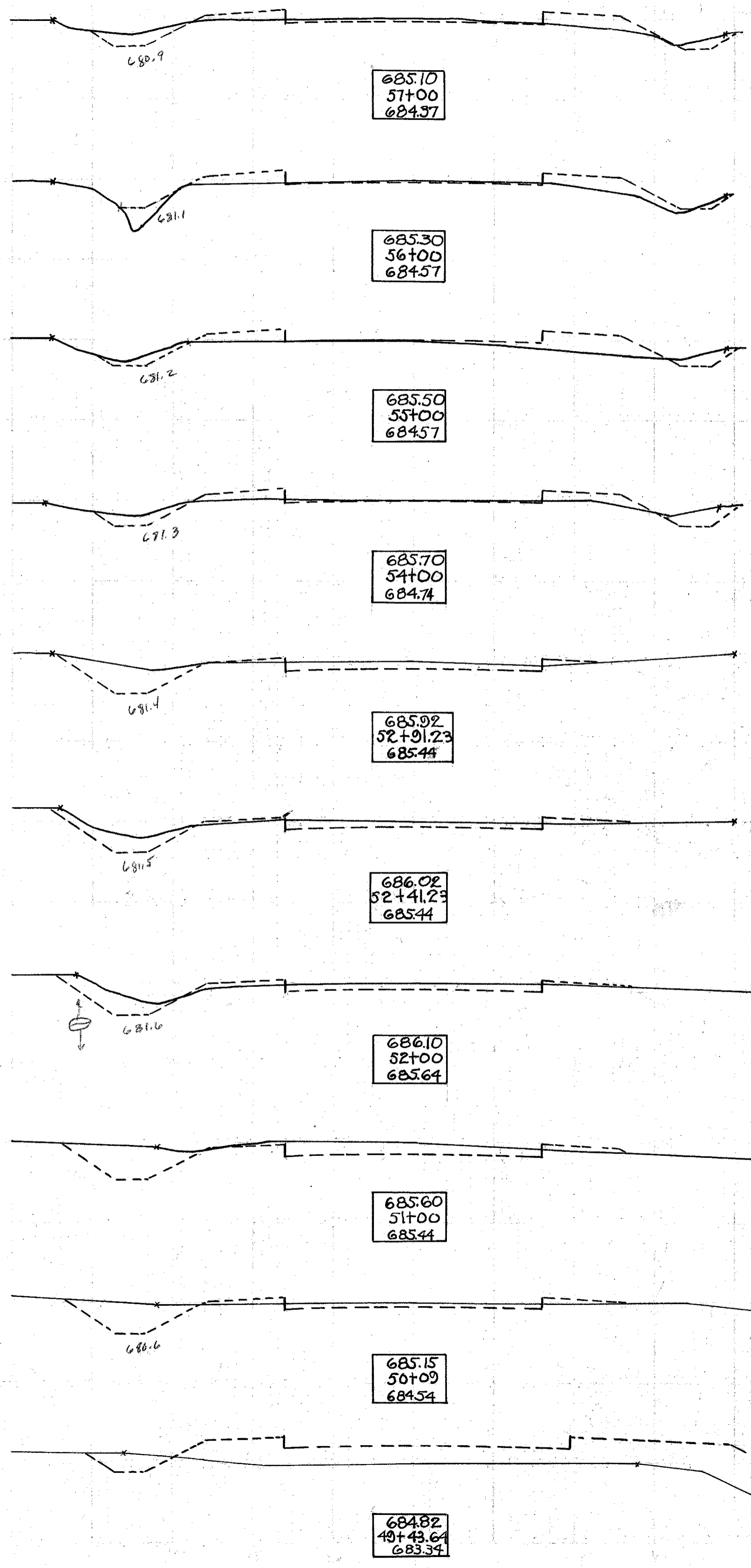
I. C. H. NO. 22, SECS. 'T & U'
SANDUSKY CO.

End Area		Cu. Yds	
Cut	Fill	Cut	Fill
6.5	7.5		
		14.3	37
12.5	12.50		
		13.9	49.4
6.25	14.25		
		19.8	39.7
7.0	7.0		
		53.1	16.5
17.25	1.25		
		27.5	3.5
12.5	2.5		
		19.10	3.8
12.5	2.5		
		75.4	8.3
2.825	2.0		
		24.9	2
		58	6
22	2.5		
		31.1	49.6
3.75	8.5		
		5.1	113.9

Exc. 304 Cu. Yds
Emb. 260 Cu. Yds

Exc. 145 Cu. Yds
Emb. 303 Cu. Yds

50+70



685.10
57+00
684.37

685.30
56+00
684.57

685.50
55+00
684.57

685.70
54+00
684.74

685.92
52+01.23
685.44

686.02
52+41.23
685.44

686.10
52+00
685.64

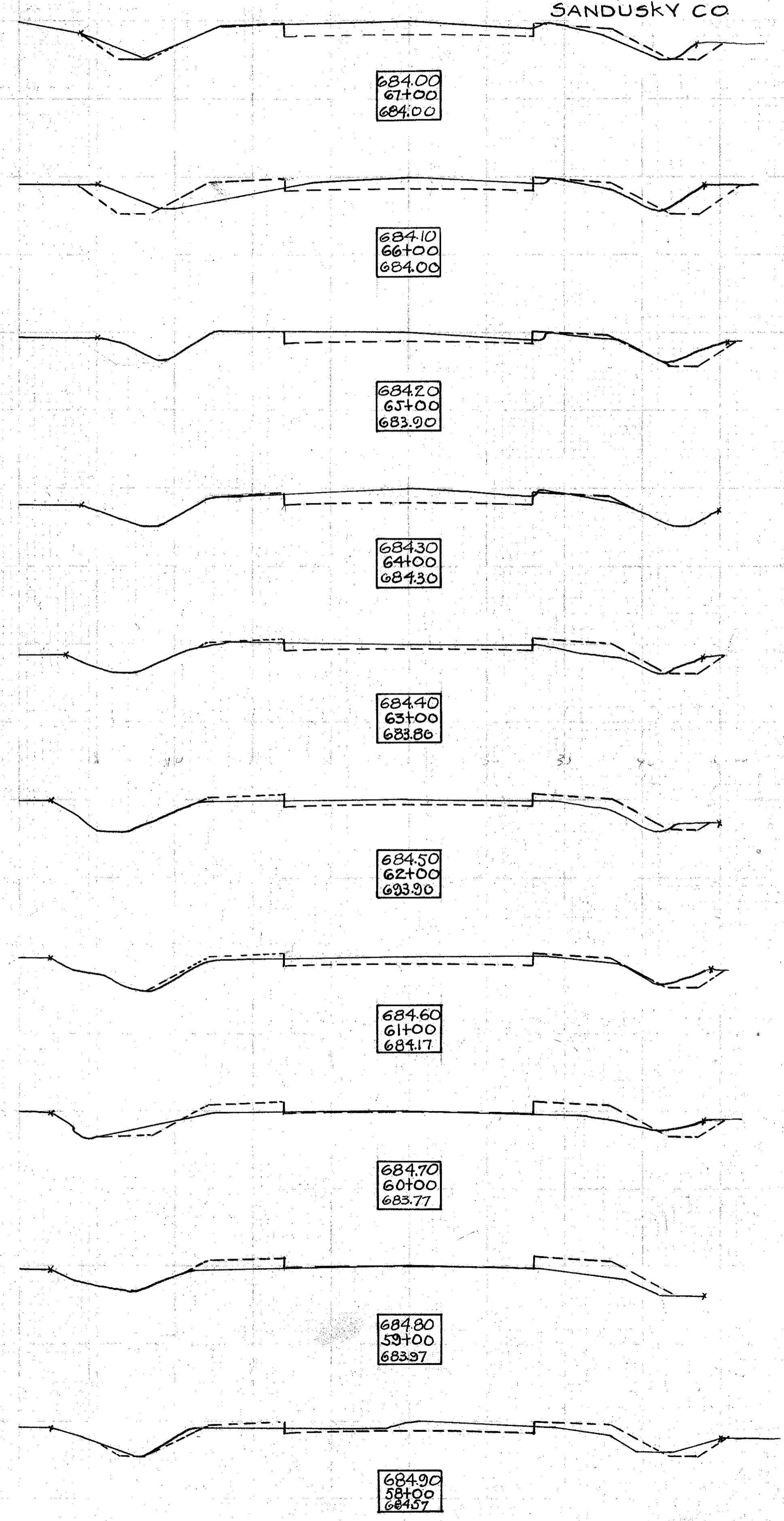
685.60
51+00
685.44

685.15
50+00
684.54

684.82
49+43.64
683.54

End Area		Cu. Yds	
Cut	Fill	Cut	Fill
14.25	2.25		
		58.7	21.3
17.25	9.0		
		62.	19.4
16	1.5		
		51.9	4.6
12	1.0		
		36.1	14.3
7.5	6.75		
		26.0	26.3
6.75	7.5		
		30.9	21.7
10.0	4.25		
		25.4	26.3
3.75	10.		
		6.9	40.2
00	11.75		
		18.5	33.7
10.0	6.5		
		30.6	25.9

60+00



684.00
61+00
684.00

684.10
60+00
684.00

684.20
65+00
683.90

684.30
64+00
684.30

684.40
63+00
683.80

684.50
62+00
683.90

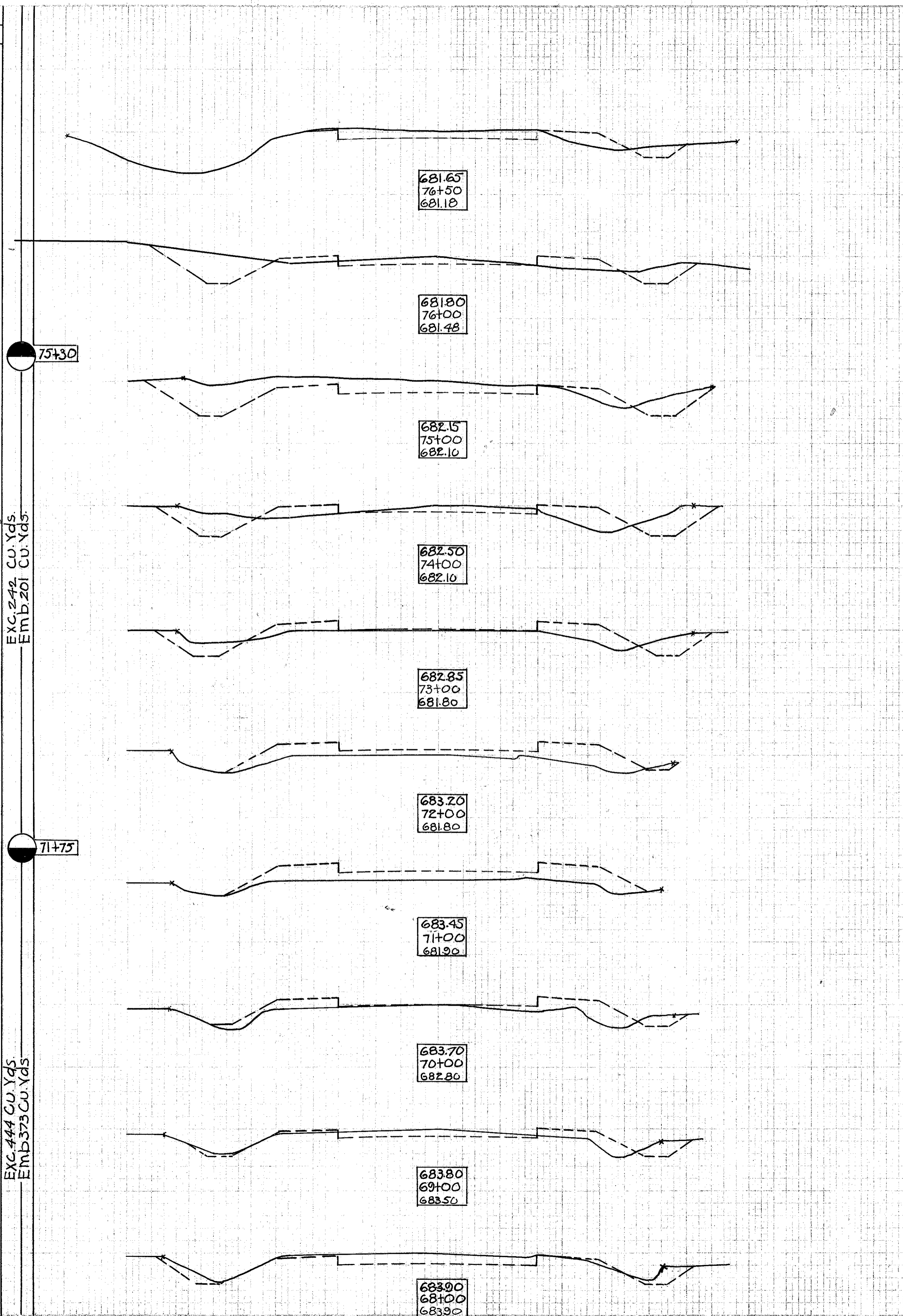
684.60
61+00
684.17

684.70
60+00
683.77

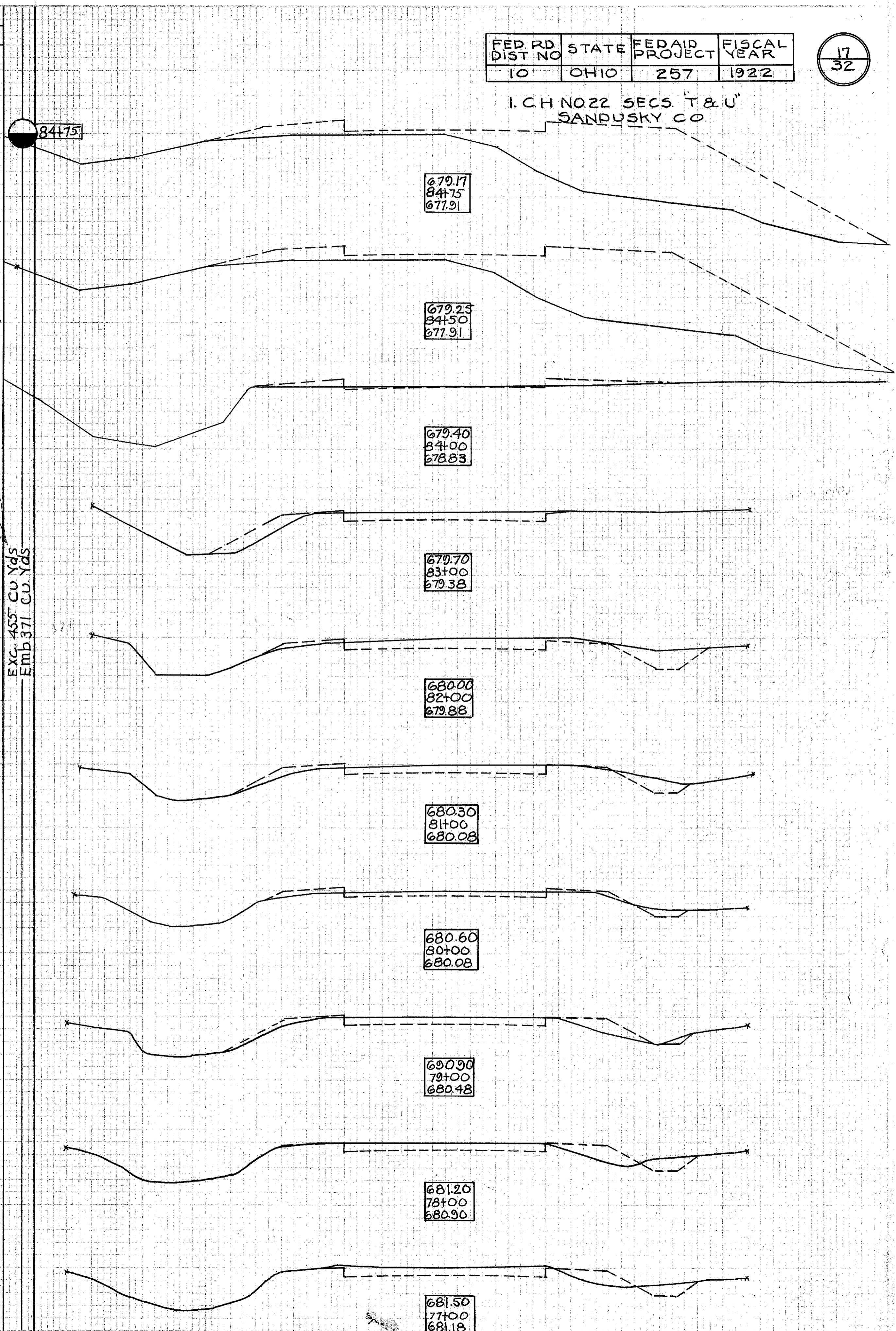
684.80
59+00
683.97

684.90
58+00
684.57

End Area		Cu. Yds	
Cut	Fill	Cut	Fill
14.75	4.75		
	35.6	11.3	
23.75	7.5		
	82.5	14.9	
	37.5	6.7	
43.75	4.0		
	120.8	32.8	
21.25	13.75		
	60.6	53.7	
11.5	15.25		
	22.2	80.6	
.50	28.25		
	9.	27.2	
00	31		
	3.1	90.7	
1.75	18		
	25.4	46.3	
12.0	7.0		
	60.2	13.9	
20.5	50		
	64.3	5.2	



End Area		Cu. Yds	
Cut	Fill	Cut	Fill
00	11.7		
	00	106.9	
00	11.4		
	.60	110.2	
0.5	5.0		
	19.4	21.3	
10.	6.5		
	58.3	14.8	
21.5	1.5		
	64.3	9.0	
13.25	3.5		
	38.3	15.6	
7.5	5.0		
	31.5	13.2	
9.5	8.25		
	41.6	25.4	
13	5.5		
	50.9	19.4	
14.5	5.0		
	27	9	



FED. RD. DIST. NO.	STATE	FED. AID PROJECT	FISCAL YEAR
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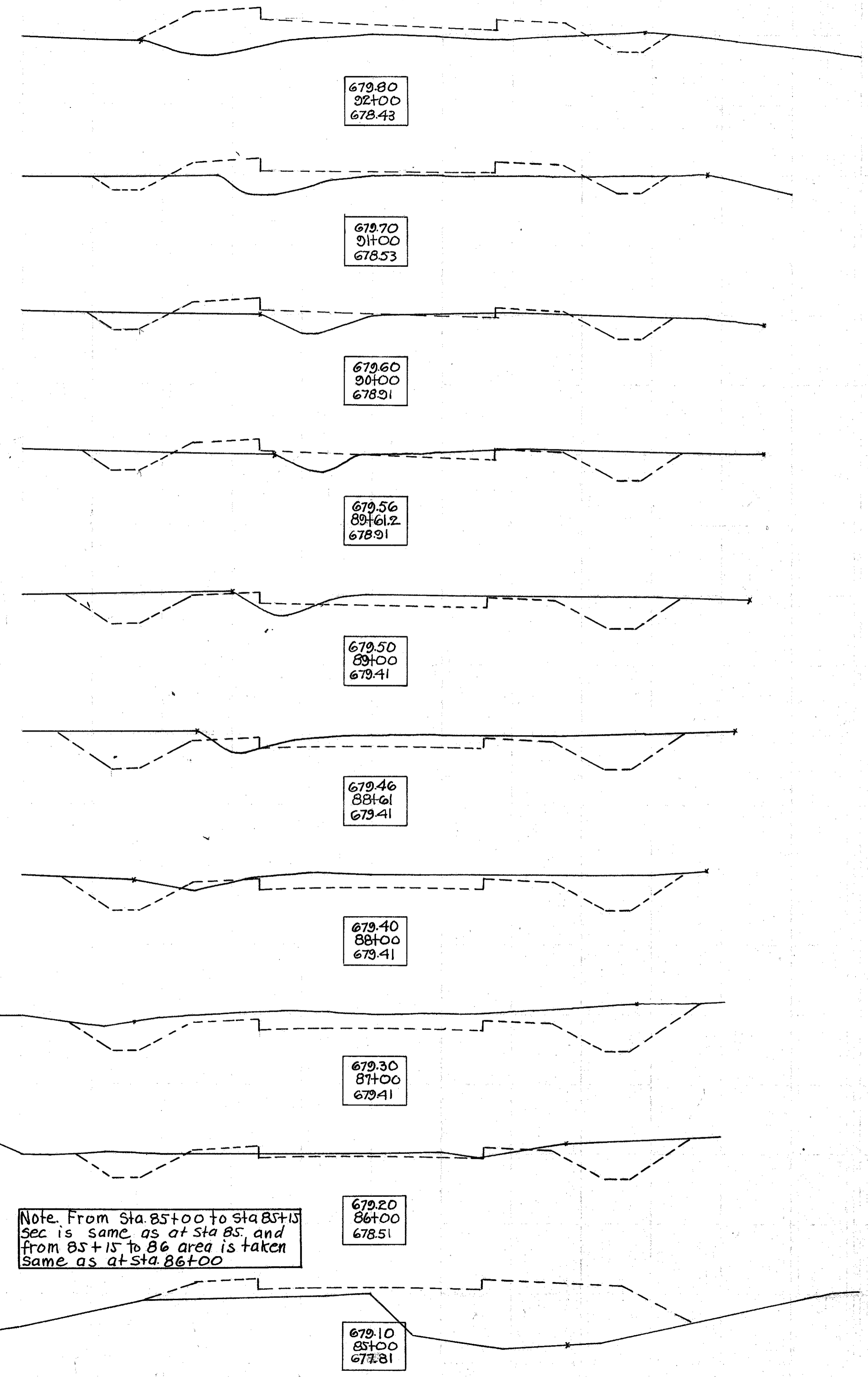
I. C. H. NO. 22 SECS. T & U
SANDUSKY CO.

NO. 22, SECS 'T & U'
SANDUSKY CO

End Area		Cu. Yds	
Cut	Fill	Cut	Fill
5.0	44		
		23.6	125.9
7.5	16		
		39.8	72.2
14	15		
		24	18
19.5	10		
		61.7	15.3
35	3.5		
		57.8	4.3
45	2.5		
		101.7	4.5
45	1.5		
		104.5	2.8
60	0.6		
		166.1	5.6
29.75	3		
		62	92
00	90.5		
		00	96.4

Exc. 228 Cu. Yds.
Emb 194 Cu. Yds.

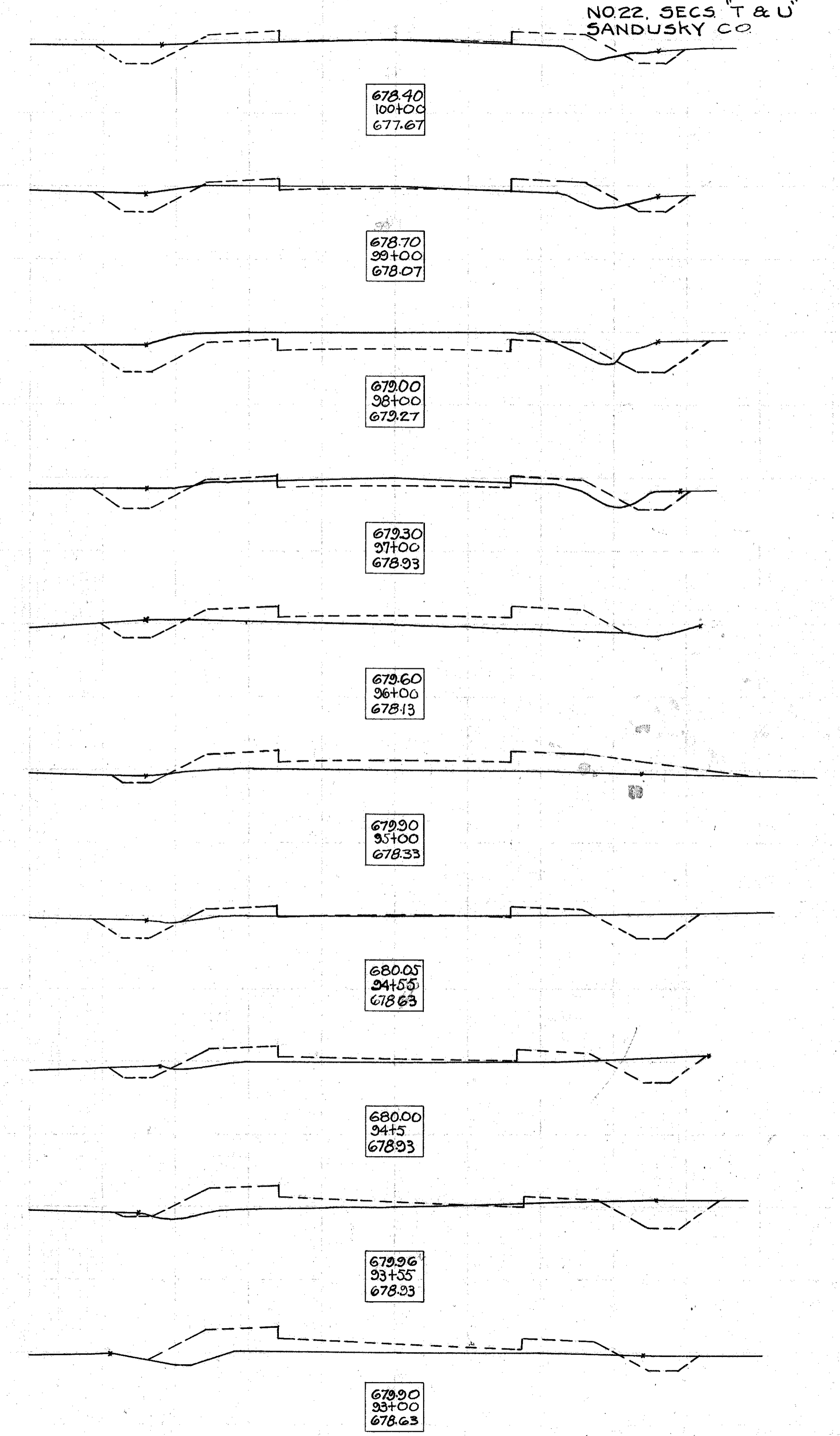
Note. From Sta. 85+00 to Sta. 85+15
Sec is same as at Sta. 85. and
from 85+15 to 86 area is taken
same as at Sta. 86+00



End Area		Cu. Yds	
Cut	Fill	Cut	Fill
9.25	11.25		
		38.3	37
11.5	8.75		
		96.3	21.3
40.5	2.75		
		102.8	16.1
15	6		
		36.1	55.6
4.5	16		
		11.1	101.4
15	32.5		
		12.5	32.3
13.5	6.25		
		22.4	19.1
10.75	14.5		
		19.6	30.5
10.5	18.5		
		14.2	47.9
3.5	28.5		
		15.7	134.3

Exc. 573 Cu. Yds.
Emb. 473 Cu. Yds.

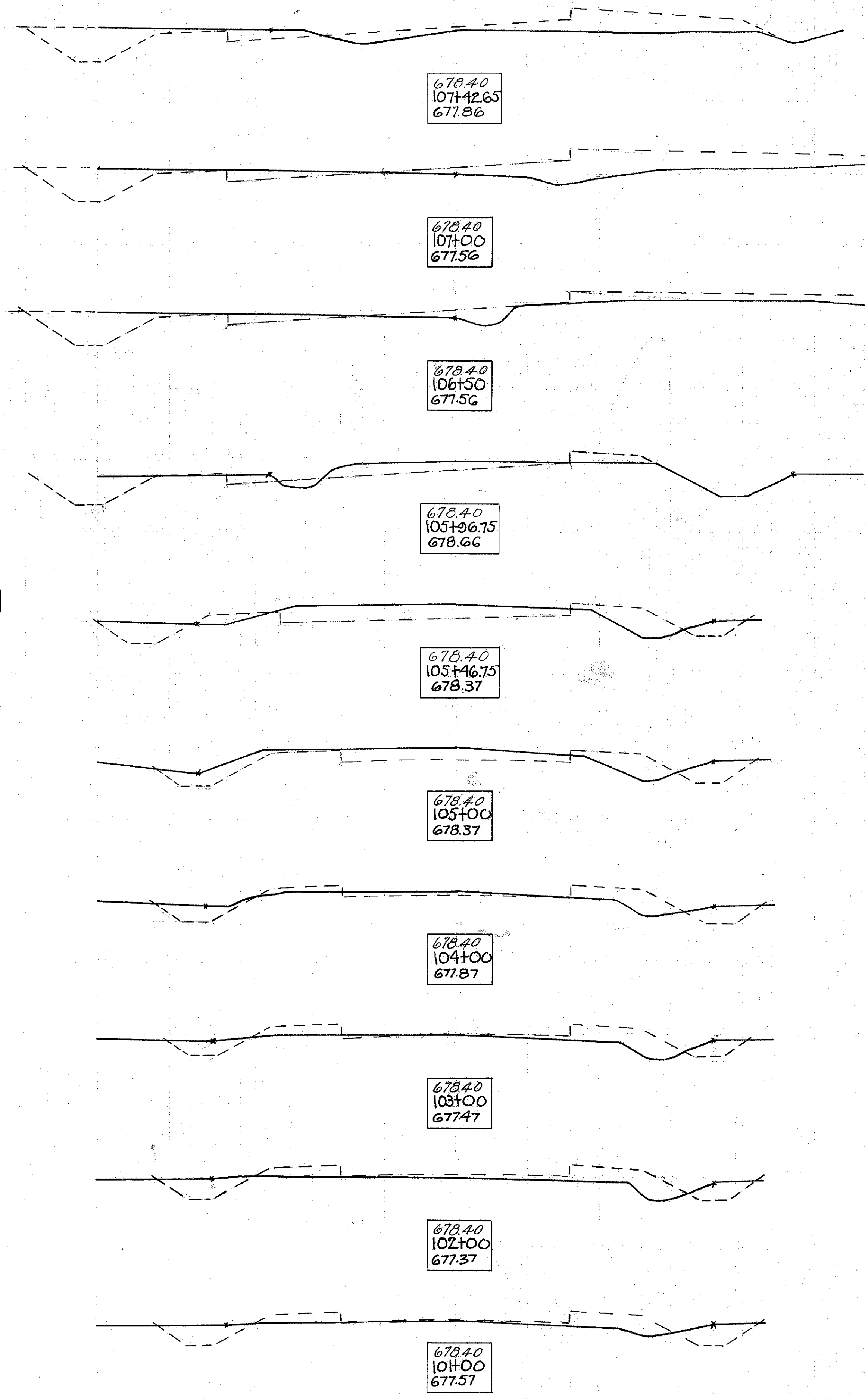
94+55



End Area		Cu. Yds.	
Cut	Fill	Cut	Fill
18.75	22.5		
		30.2	46.4
19.5	36.25		
		69.4	54.4
16.0	22.5		
		38.6	25.0
21.25	4.75		
		52.0	15.0
35.5	11.5		
		57.4	15.6
30.5	6.5		
		82.4	31.5
14.0	10.5		
		51.3	47.2
13.75	15.0		
		44.8	58.9
10.5	16.75		
		41.1	48.1
11.75	9.25		
		38.9	38.0

EXC. 613 Cu. Yds
Emb 593 Cu. Yds

105+46.75

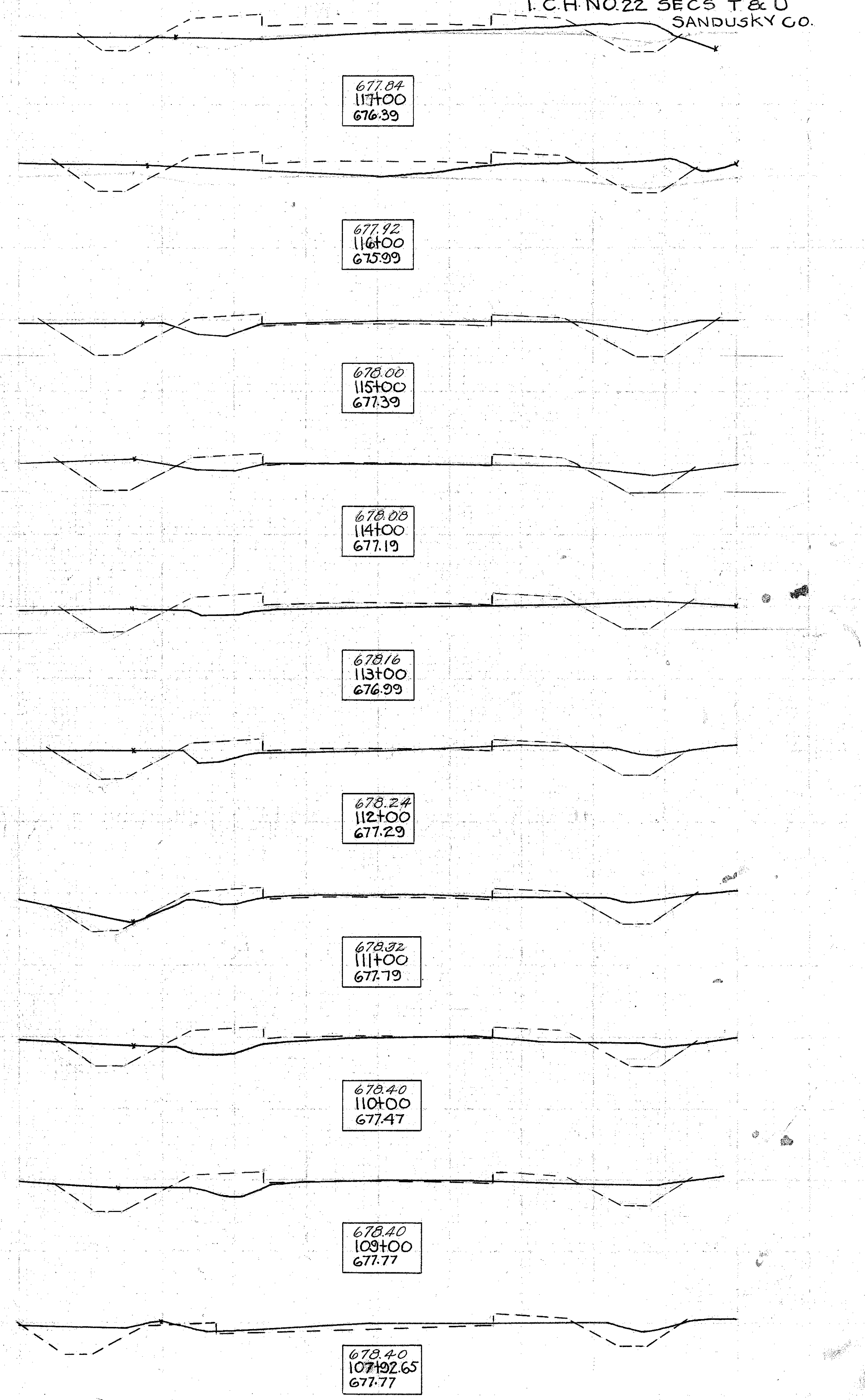


End Area		Cu. Yds.	
Cut	Fill	Cut	Fill
12.5	24.0		
		61.1	81.5
20.5	20.0		
		88.0	53.7
27.0	9.0		
		81.1	32.8
17.0	8.75		
		62.0	44.8
16.5	15.5		
		66.7	47.2
19.5	10		
		59.8	32.8
12.5	7.5		
		47.2	41.7
18.0	15.0		
		55.9	47.2
17.25	10.5		
		81.0	28.0
23.25	3.5		
		38.9	24.0

EXC. 495 Cu. Yds
Emb 449 Cu. Yds

110+00

EXC. 366 Cu. Yds
Emb 240 Cu. Yds

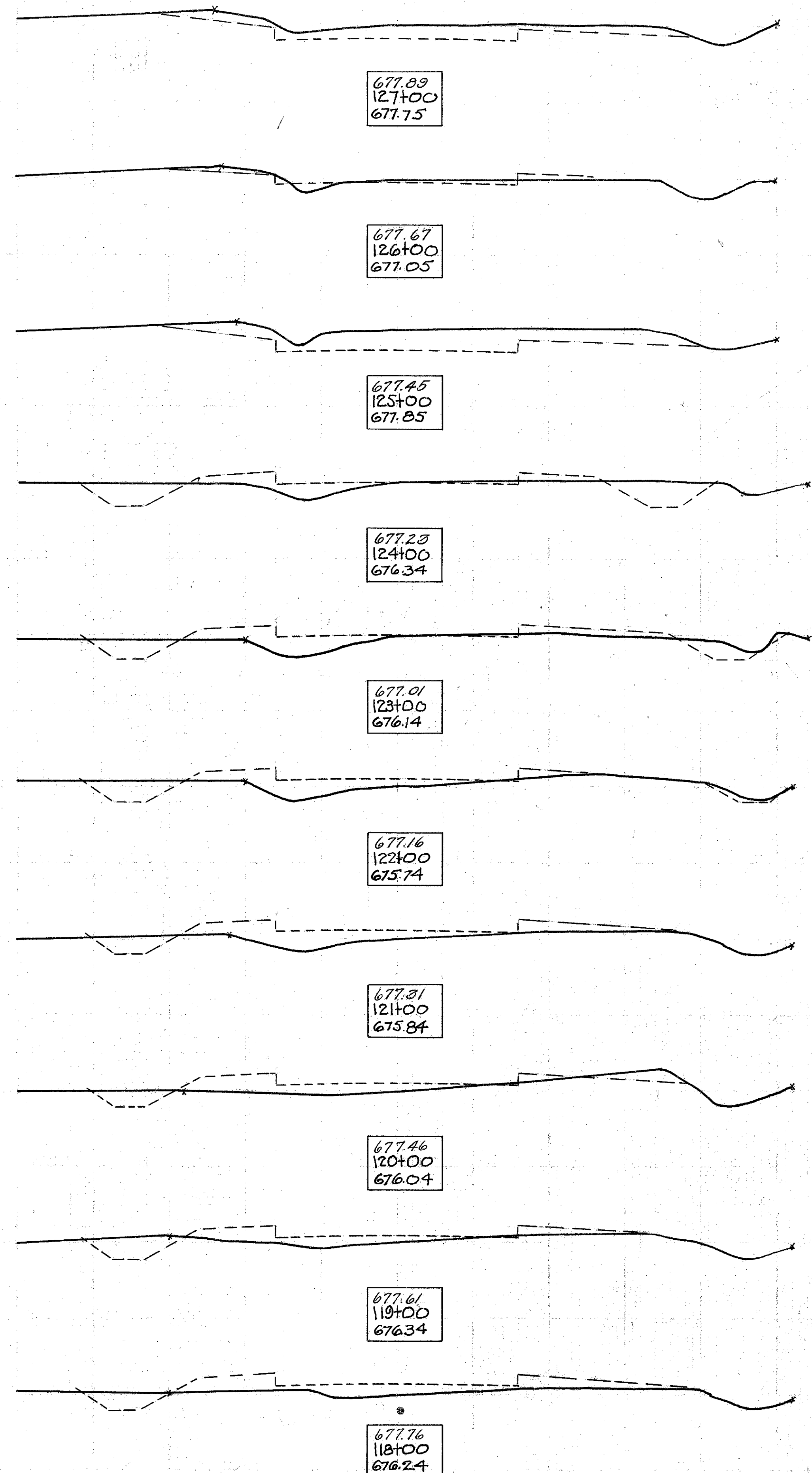


I. C. H. NO. 22 SECS T & U
SANDUSKY CO.

End Area		Cu. Yds	
Cut	Fill	Cut	Fill
22.5	0.0		
	48.1	0.0	
3.5	2.5		
	68.9	4.6	
33.75	0.0		
	91.1	19.8	
15.5	10.75		
	48.1	50.4	
10.5	16.5		
	32.4	58.0	
7.0	15		
	21.3	65.7	
4.5	20.5		
	20.4	66.1	
6.5	15.25		
	24.1	55.9	
6.5	15		
	18.5	68.5	
3.5	22		
	29.6	85.2	

Exc. 476 Cu. Yds.
Emb. 389 Cu. Yds.

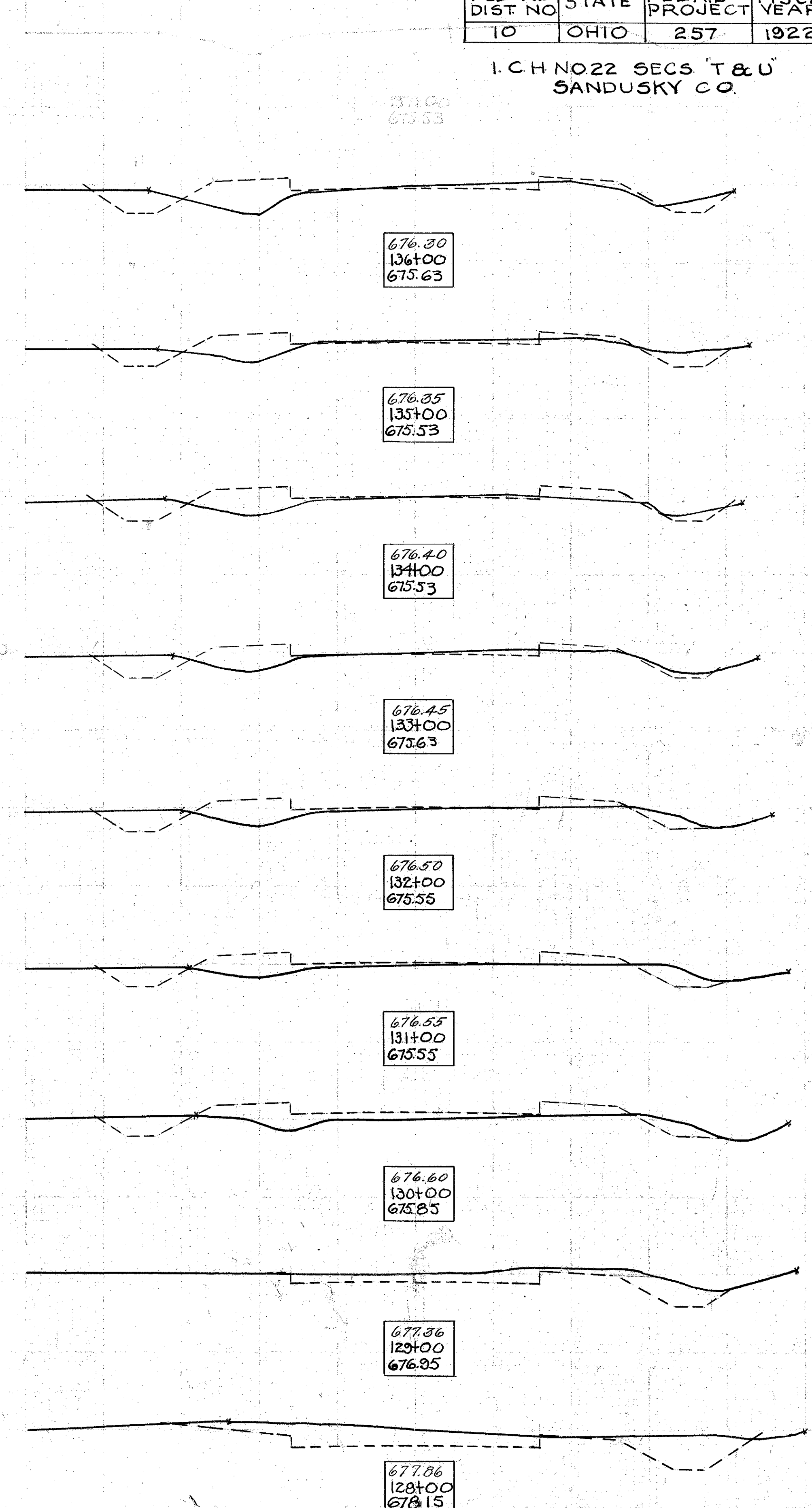
118+00



End Area		Cu. Yds	
Cut	Fill	Cut	Fill
10.5	15		
	36.2	48.5	
9.0	11.0		
	31.5	46.3	
8.0	14		
	33.3	45.4	
10	10.5		
	33.7	43.5	
8.25	13.0		
	31.5	49.4	
8.75	13.75		
	33.7	58.7	
9.5	18		
	31.5	38.9	
19.5	0.0		
	39.6	0.0	
33.25	0.0		
	102.1	0.0	

Exc. 228 Cu. Yds.
Emb. 190.5 Cu. Yds.

128+00



FED. RD DIST NO	STATE	FED. AID PROJECT	FISCAL YEAR
10	OHIO	257	1922

I. C. H. NO. 22 SECS. T & U
SANDUSKY CO.

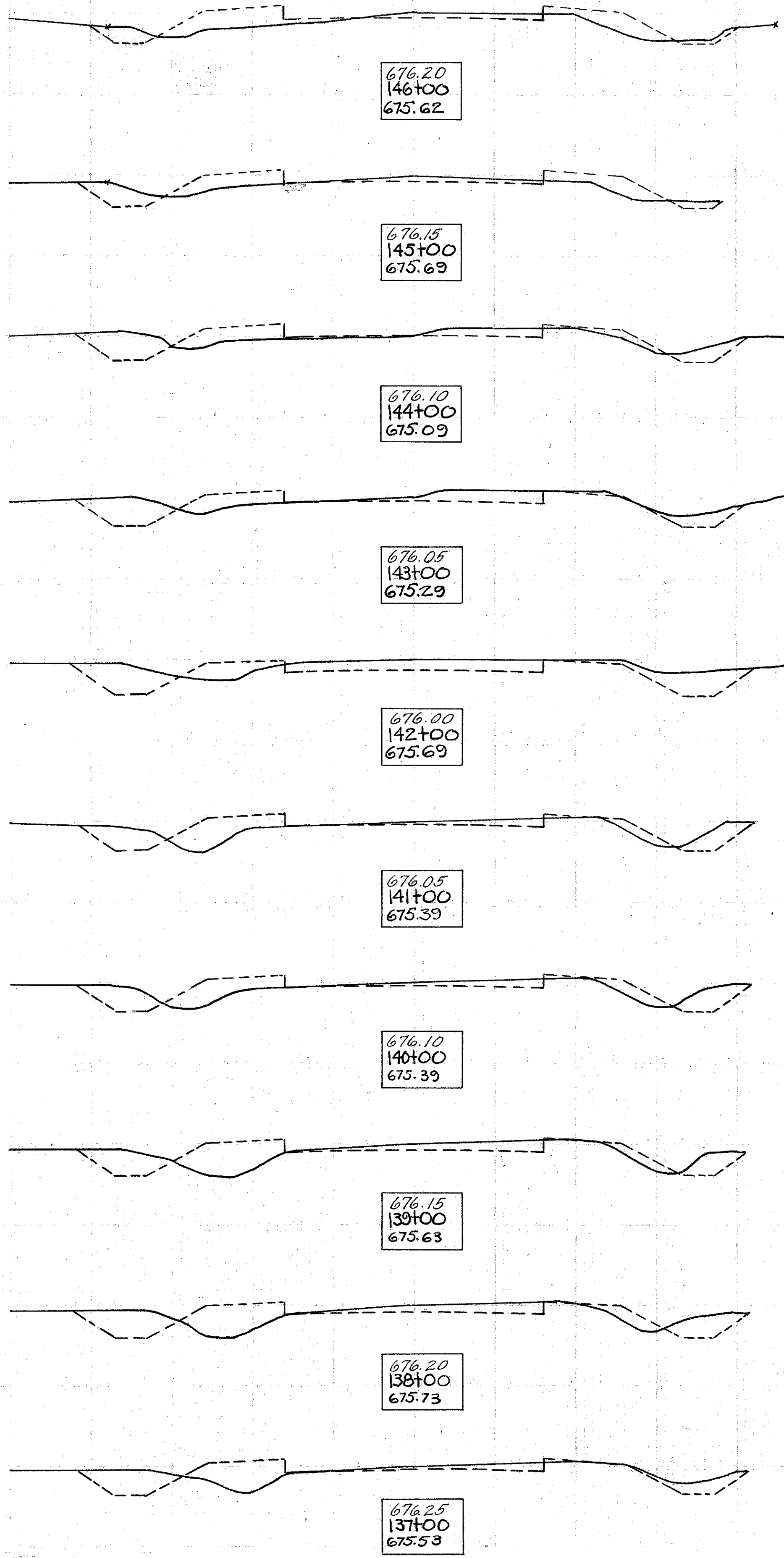
20
32

I.C.H. NO 22, SECS 'T & U'
SANDUSKY CO.

End Area		Cu. Yds.	
Cut	Fill	Cut	Fill
7.0	13.75		
		30	49.1
9.25	10.75		
		43.5	37.4
14.25	9.50		
		56.6	26.3
18.	4.75		
		81.9	17
26.25	4.5		
		71.7	29.6
12.5	11.5		
		48.1	39.8
13.5	10.		
		52.8	41.1
15.	12.25		
		62.4	44.4
18.75	11.75		
		60.6	38
14.	8.75		
		45.4	43.9

EXC. 442 CU. Yds.
EMB. 377 CU. Yds.

142+00

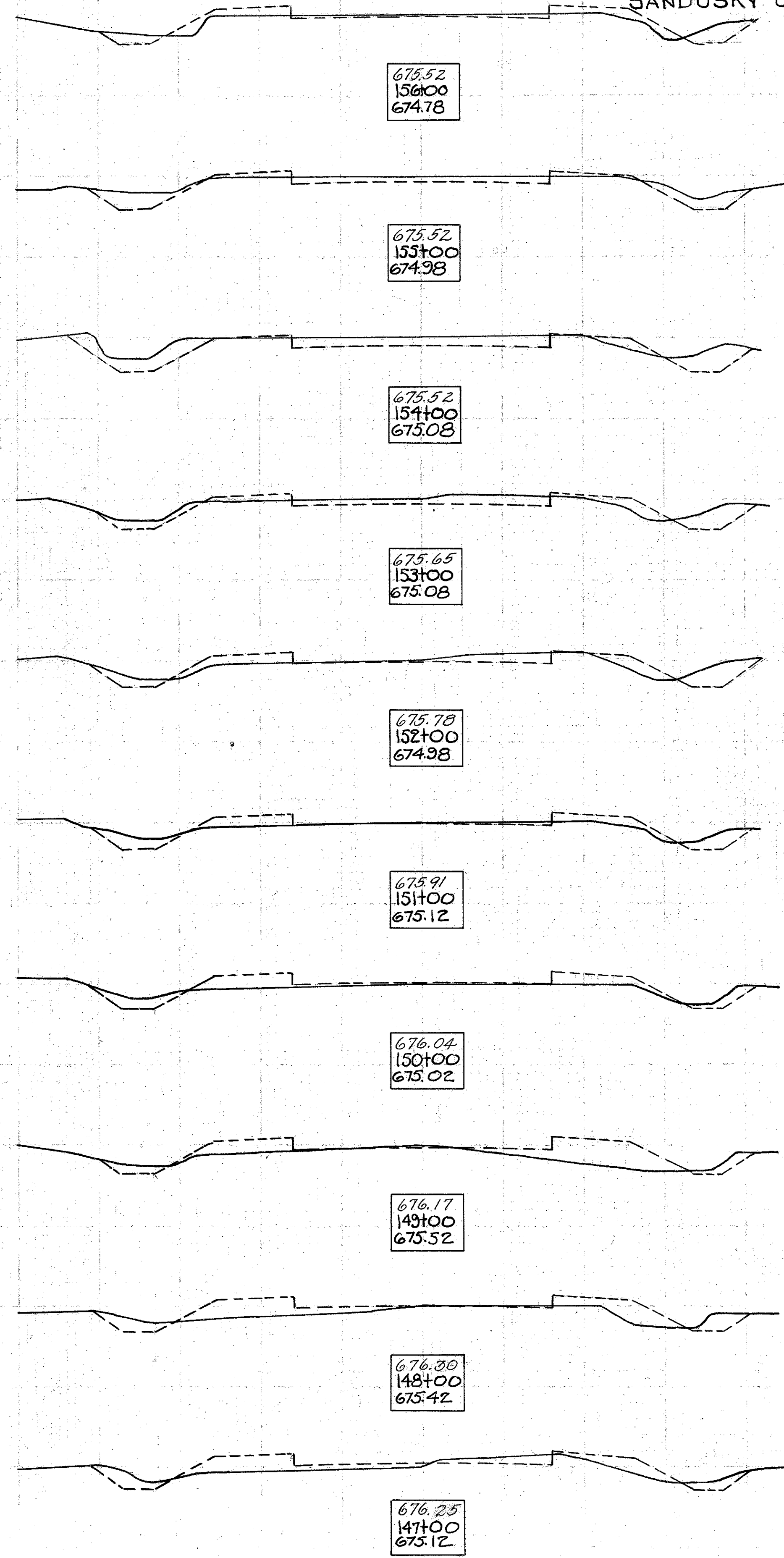


End Area		Cu. Yds.	
Cut	Fill	Cut	Fill
8	8.25		
		38	18.9
12.5	2.		
		60.2	7.8
20	2.25		
		54.6	18.0
9.5	7.5		
		38.9	28.7
11.5	8.		
		34.3	26.8
7.0	6.5		
		22.0	32.8
5.0	11.25		
		16.1	53.1
3.75	17.5		
		17	61.1
5.5	15.5		
		26.3	53.7
8.75	13.5		
		20.1	54.1

EXC. 320 CU. Yds.
EMB. 169 CU. Yds.

148+00

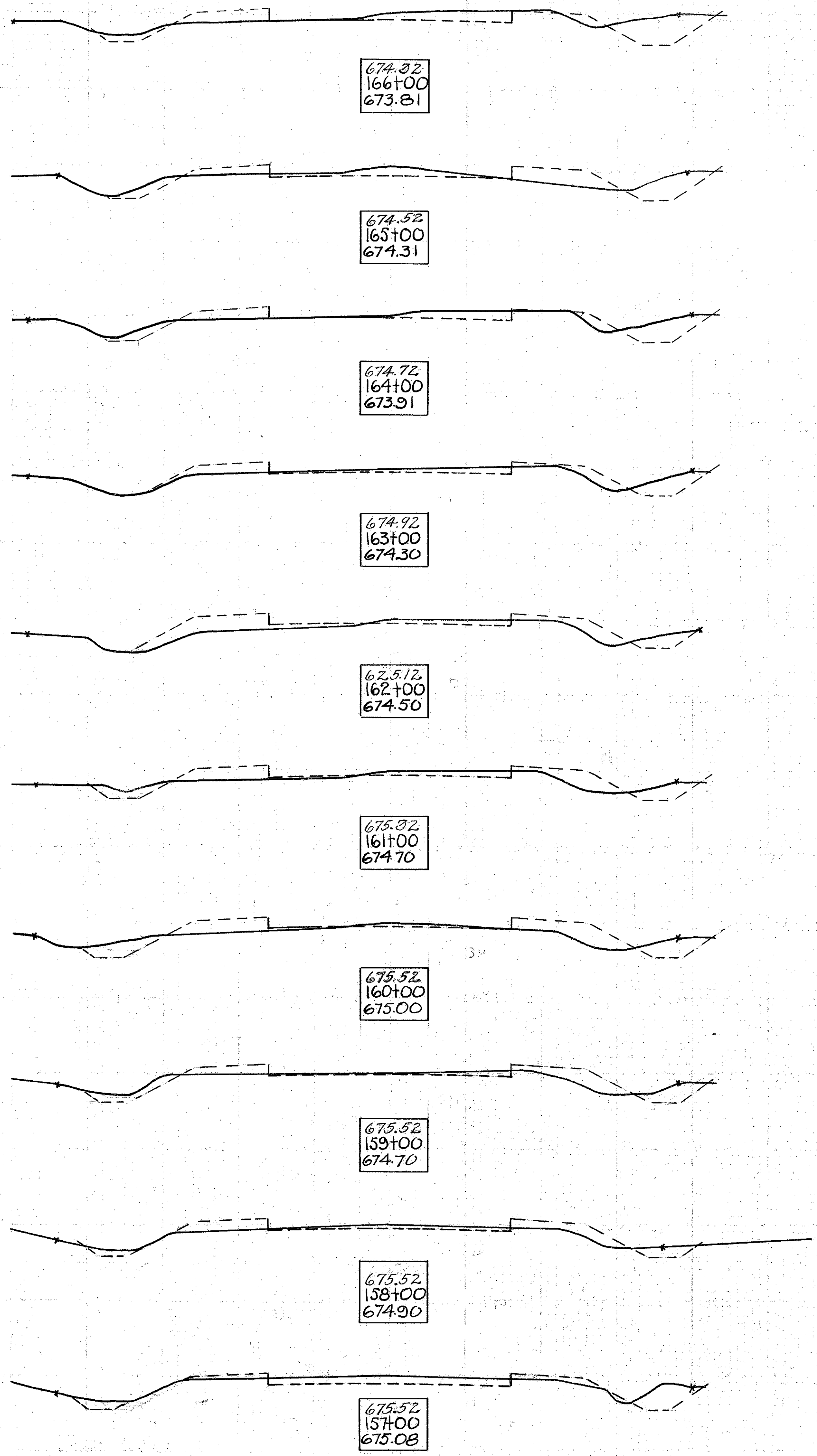
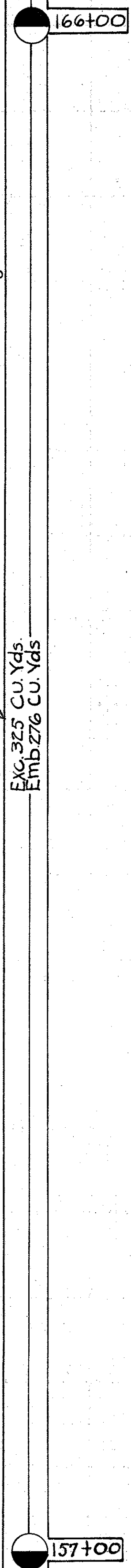
EXC. 266 CU. Yds.
EMB. 237 CU. Yds.



I. C. H. NO. 22, SECS "T & U"
SANDUSKY, CO

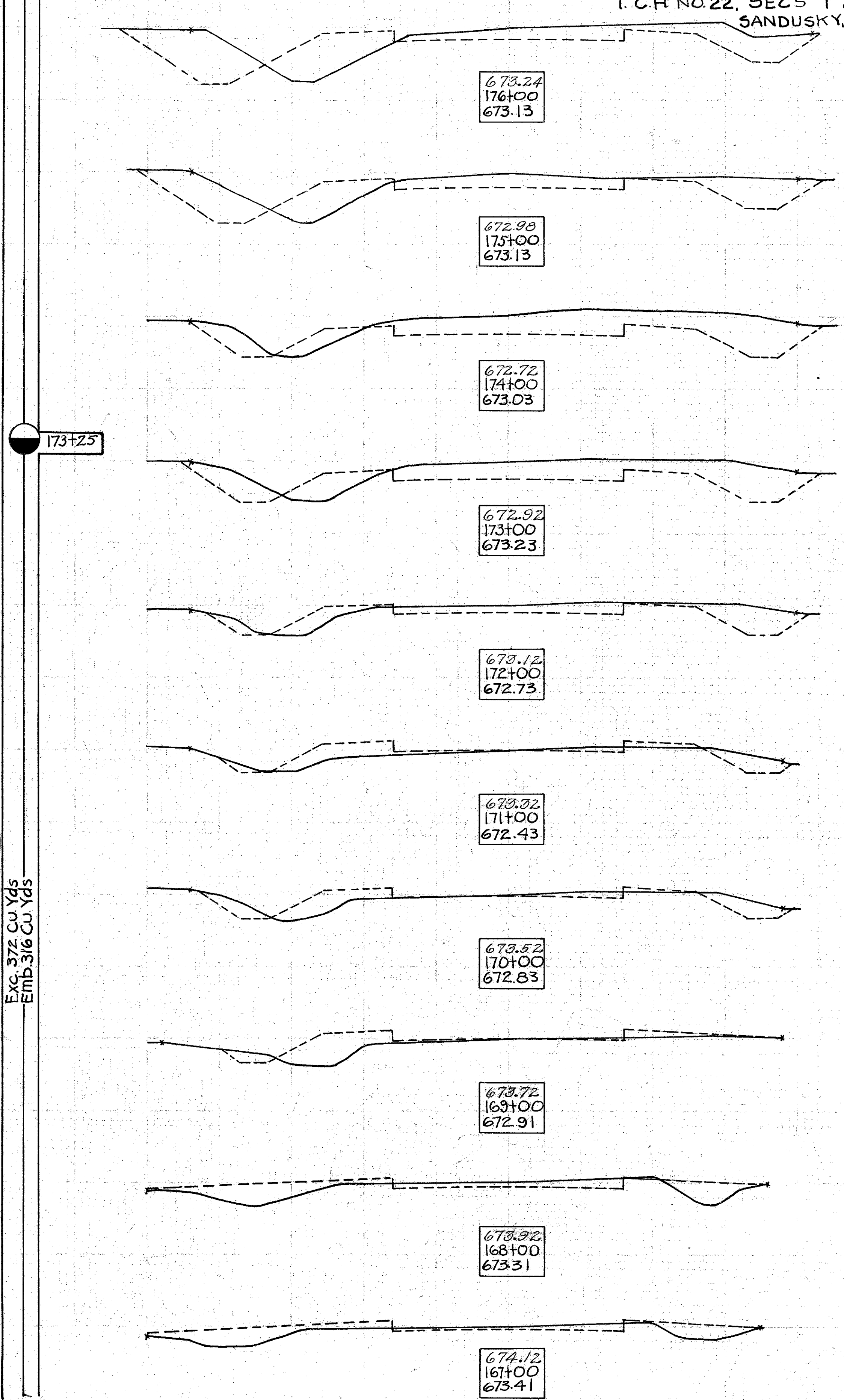
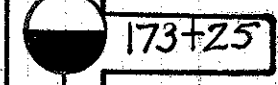
End Area		Cu. Yds.	
Cut	Fill	Cut	Fill
16	37.5		
		54.1	23.5
132.5	9		
		46.7	25.0
12.0	4.5		
		37	21.3
8.0	7.0		
		24.4	38
5.25	13.5		
		30	43.5
11.0	10		
		38.3	39.8
9.75	11.5		
		33.4	34.5
8.5	7.25		
		24.1	28.7
7.0	8.25		
		37	21.7
13	3.5		
		38.9	21.7

Exc. 325 Cu. Yds.
Emb. 276 Cu. Yds.



End Area		Cu. Yds.	
Cut	Fill	Cut	Fill
48	17.5		
		168.5	55
43	12.25		
		173.7	32.8
50.75	5.5		
		134.5	19.0
46.00	8.00		
		45.2	6.5
23.75	6.00		
		129.3	25.9
57.8	31.9		
		7.5	11.25
		36.7	38.9
12.25	9.75		
		26.3	44.3
2.0	15.25		
		16.7	61.5
7.0	18		
		21.7	65.7
4.75	17.5		
		38.3	39.3

Exc. 372 Cu. Yds.
Emb. 316 Cu. Yds.

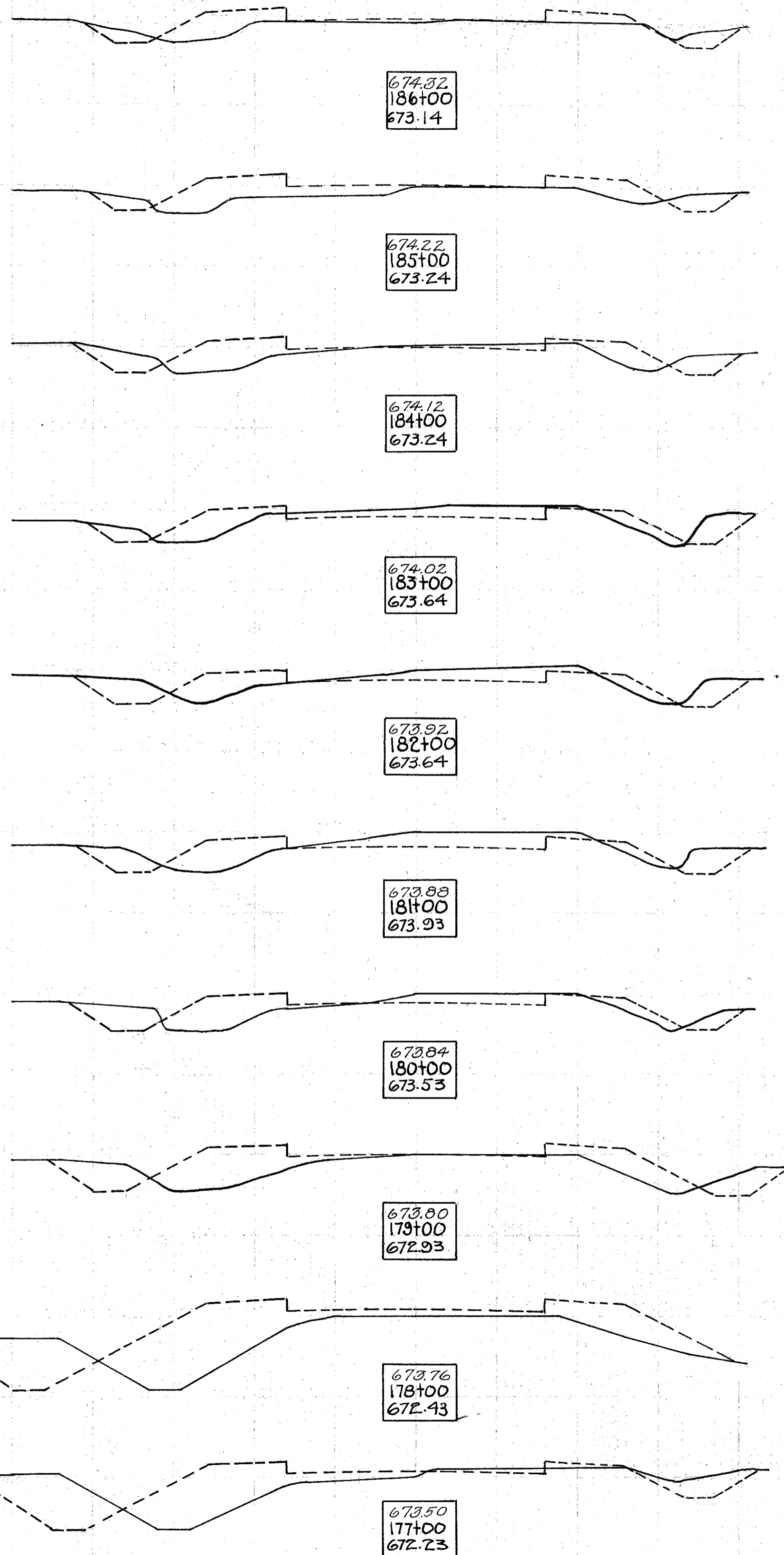


I. C. H. NO. 22, SECS. 'T & U'
SANDUSKY CO.

End Area	Cu. Yds.	Cut	Fill	Cut	Fill
5.0	15				
	18.9	71.3			
5.25	23.5				
	7.7	19.5			
	2.3	59.7			
11.0	18.5				
	52.8	57.4			
17.5	12.5				
	67.6	46.3			
19	12.5				
	73.5	46.3			
20.75	12.5				
	68.3	52.8			
18.75	16.0				
	50.9	81.5			
13.75	2.8				
	71.7	163.0			
20	59.5				
	31.1	168.5			
29.2	31.5				
	143	90.7			

184+75

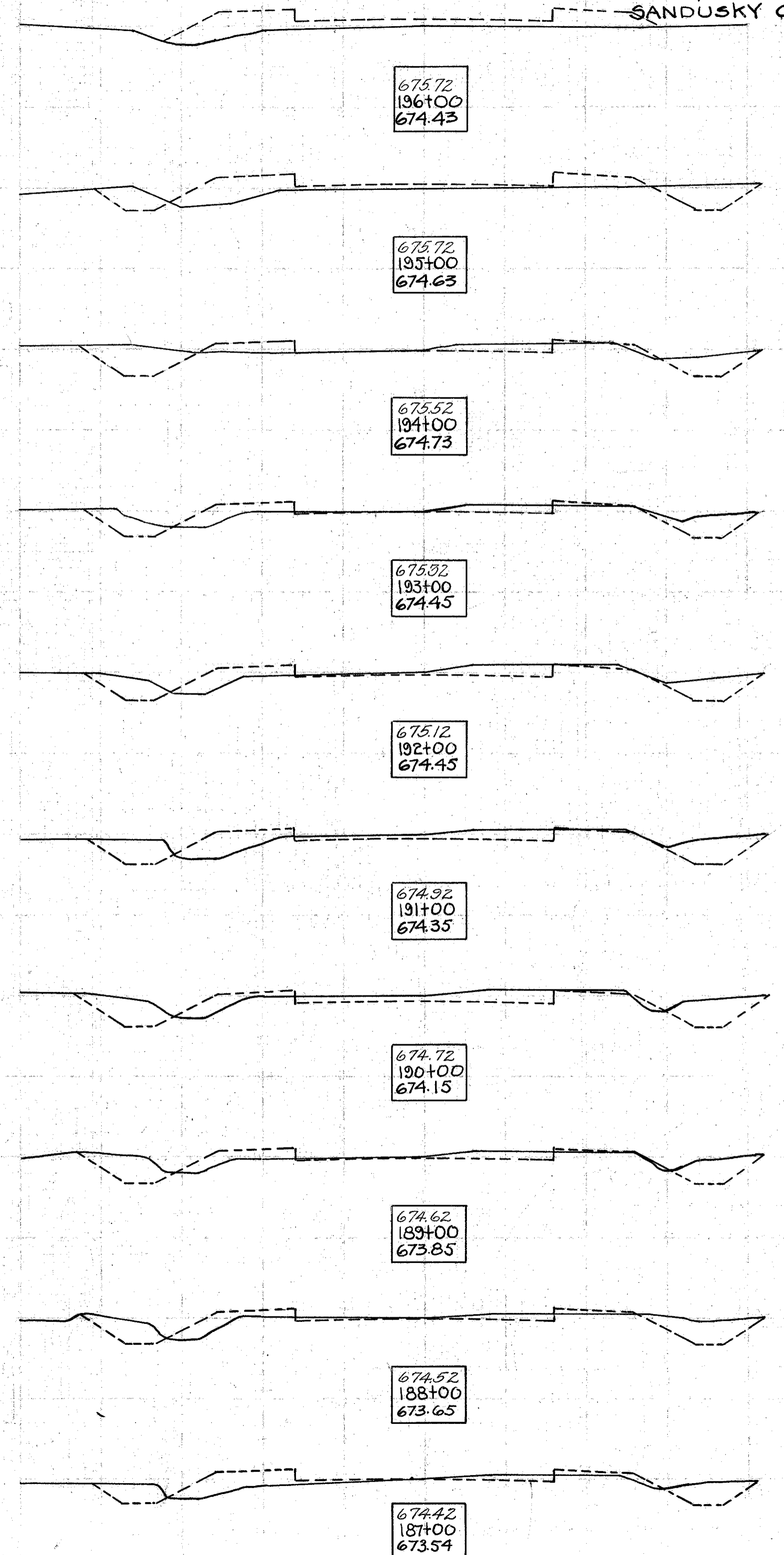
Exc. 1060 Cu. Yds.
Emb. 871 Cu. Yds.



End Area	Cu. Yds.	Cut	Fill	Cut	Fill
00	23.75				
	19.4	73.5			
10.5	16				
	481	38.0			
15.5	4.5				
	53.7	18.9			
13.5	5.75				
	58.3	22.2			
18.0	6.25				
	71.3	25.4			
20.5	7.5				
	60.6	17.0			
23	4.75				
	20	5.6			
	68.9	18.9			
14.25	5.5				
	59.6	22.2			
18.0	6.5				
	53	32.4			
11.75	11.0				
	30.9	48.1			

190+25

Exc. 261 Cu. Yds.
Emb. 218 Cu. Yds.

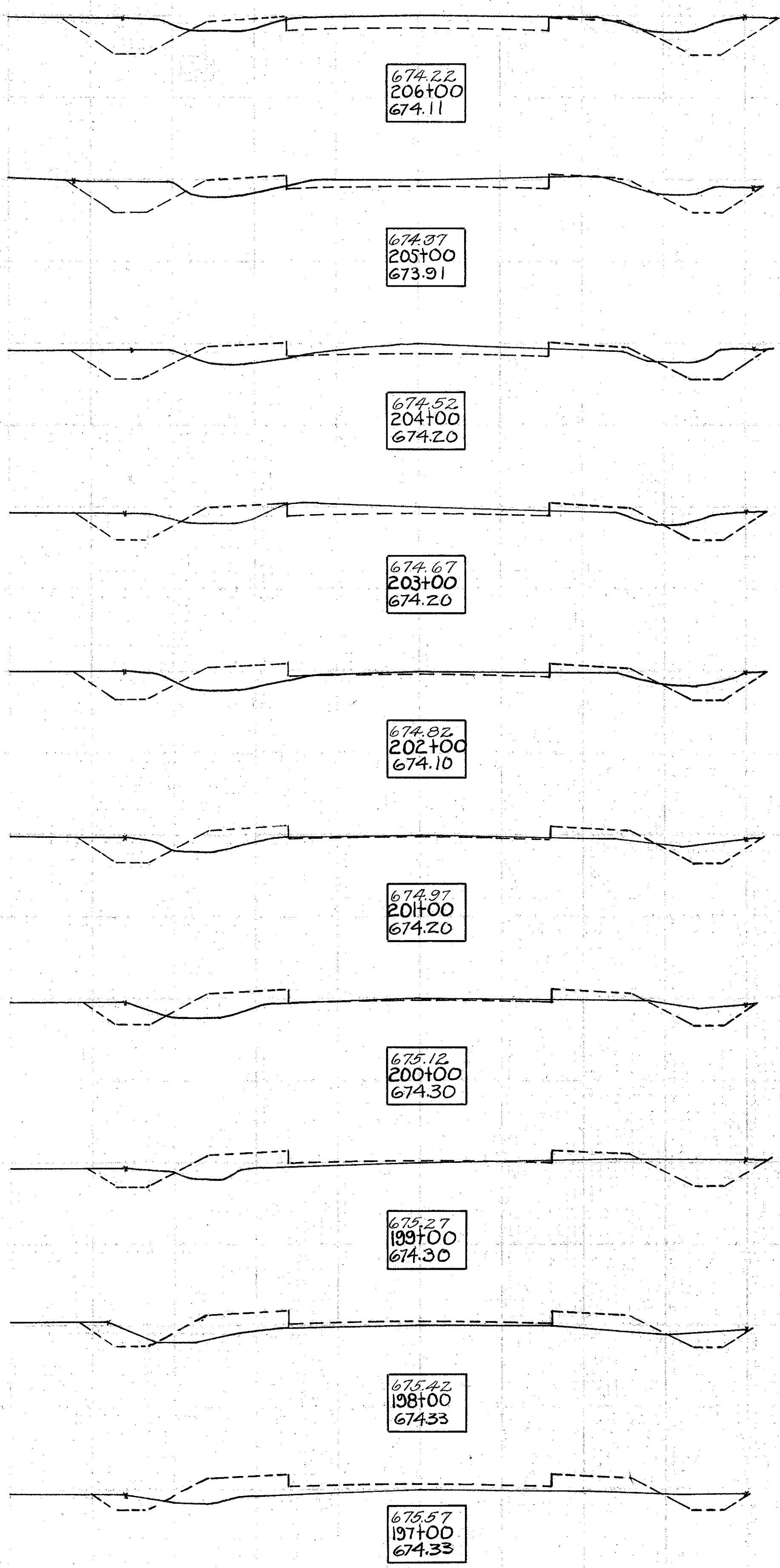


I.C.H NO 22, SECS 'T & U'
SANDUSKY CO.

End Area		Cu. Yds.	
Cut	Fill	Cut	Fill
32.0	3.0		
		99.4	15.7
21.75	5.5		
		32.9	6.2
		47.5	14.9
22.0	7.5		
		77.8	27.8
20.0	7.5		
		63.9	35.6
14.5	11.75		
		52.2	40.7
13.75	10.25		
		47.6	37.4
12.0	10.0		
		44.4	38.3
12.0	10.75		
		35.2	53.7
7.0	18.25		
		25.0	72.2
6.5	20.75		
		12.0	82.4

Exc. 717 Cu. Yds.
Emb. 598 Cu. Yds.

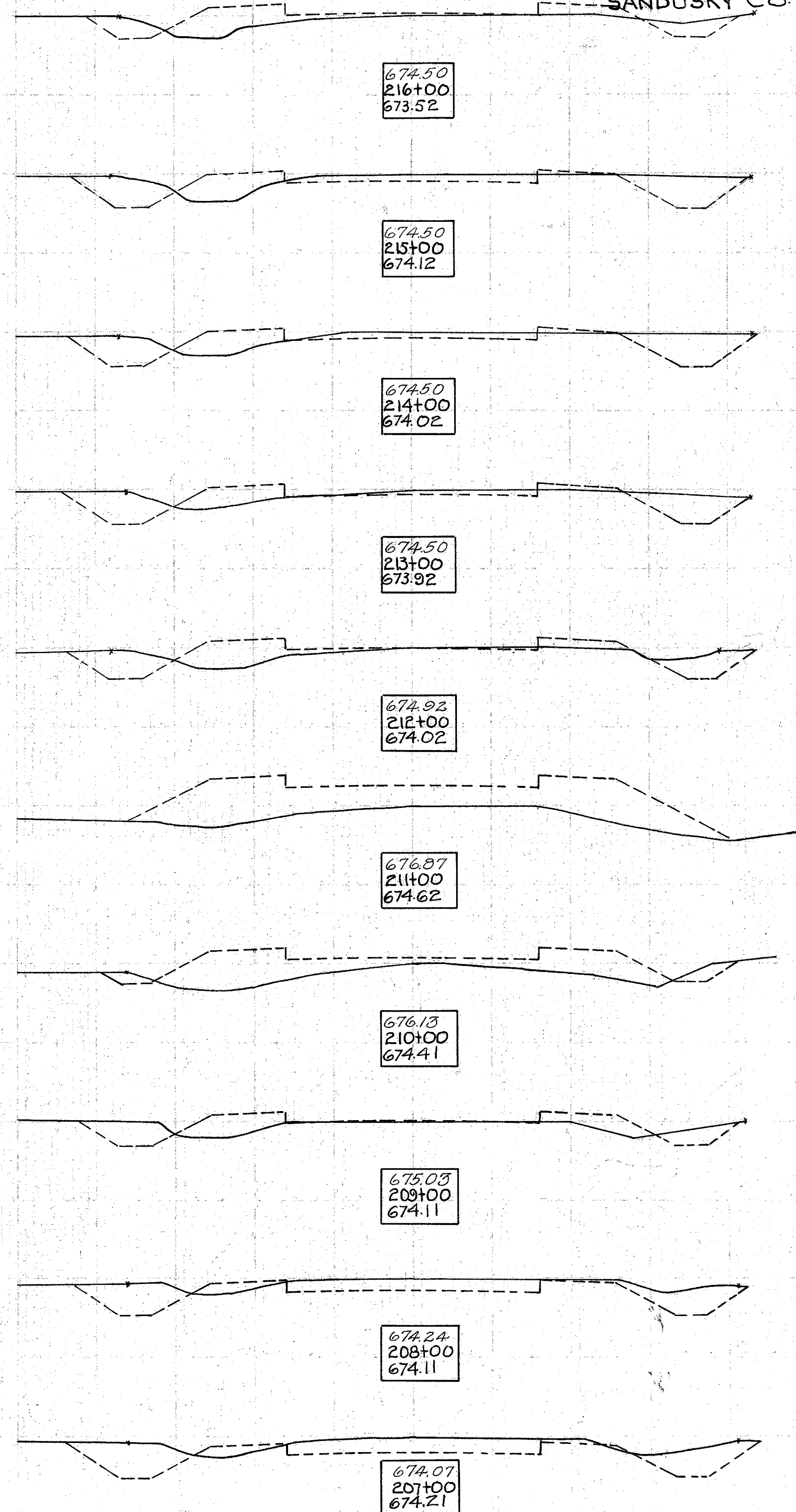
204+60



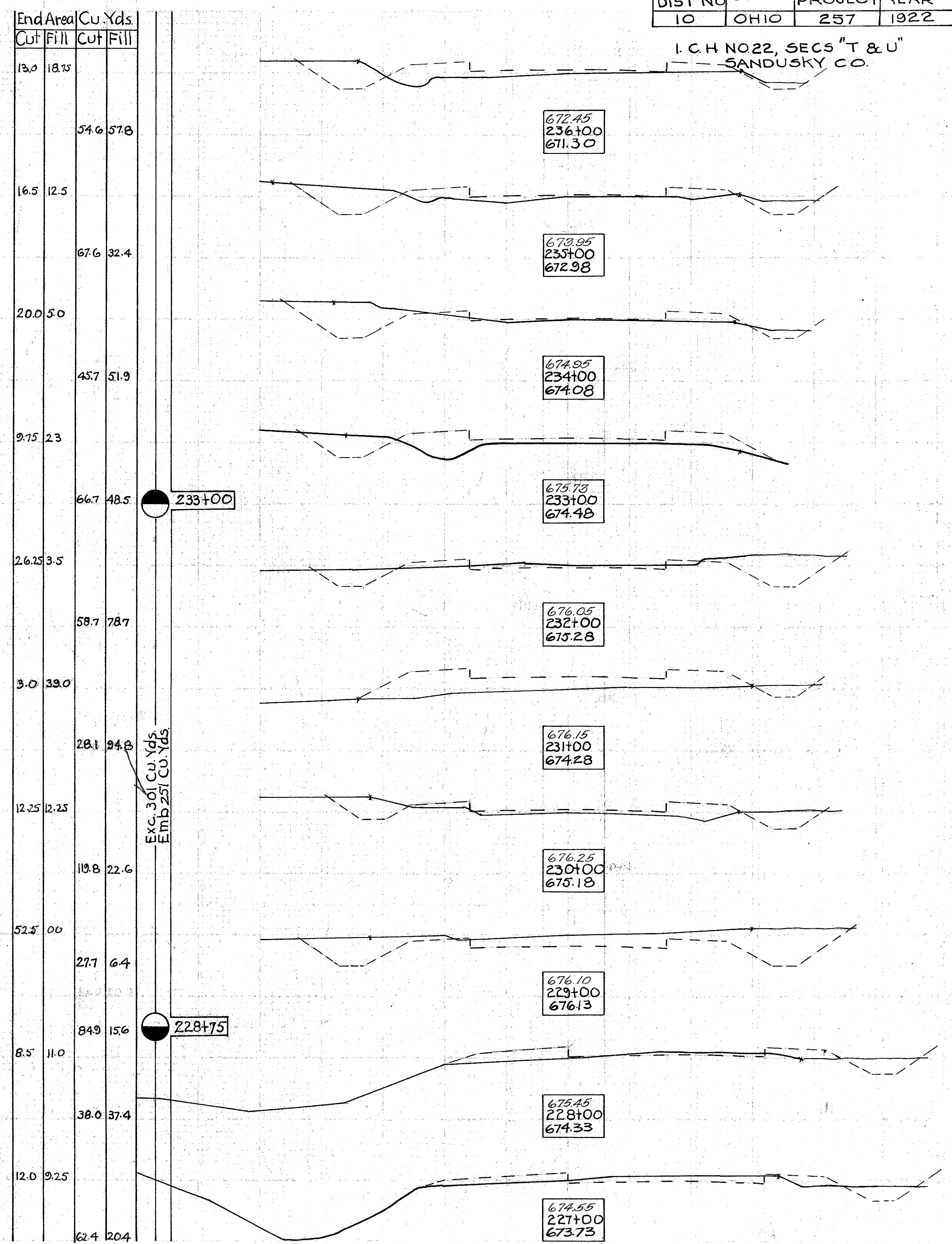
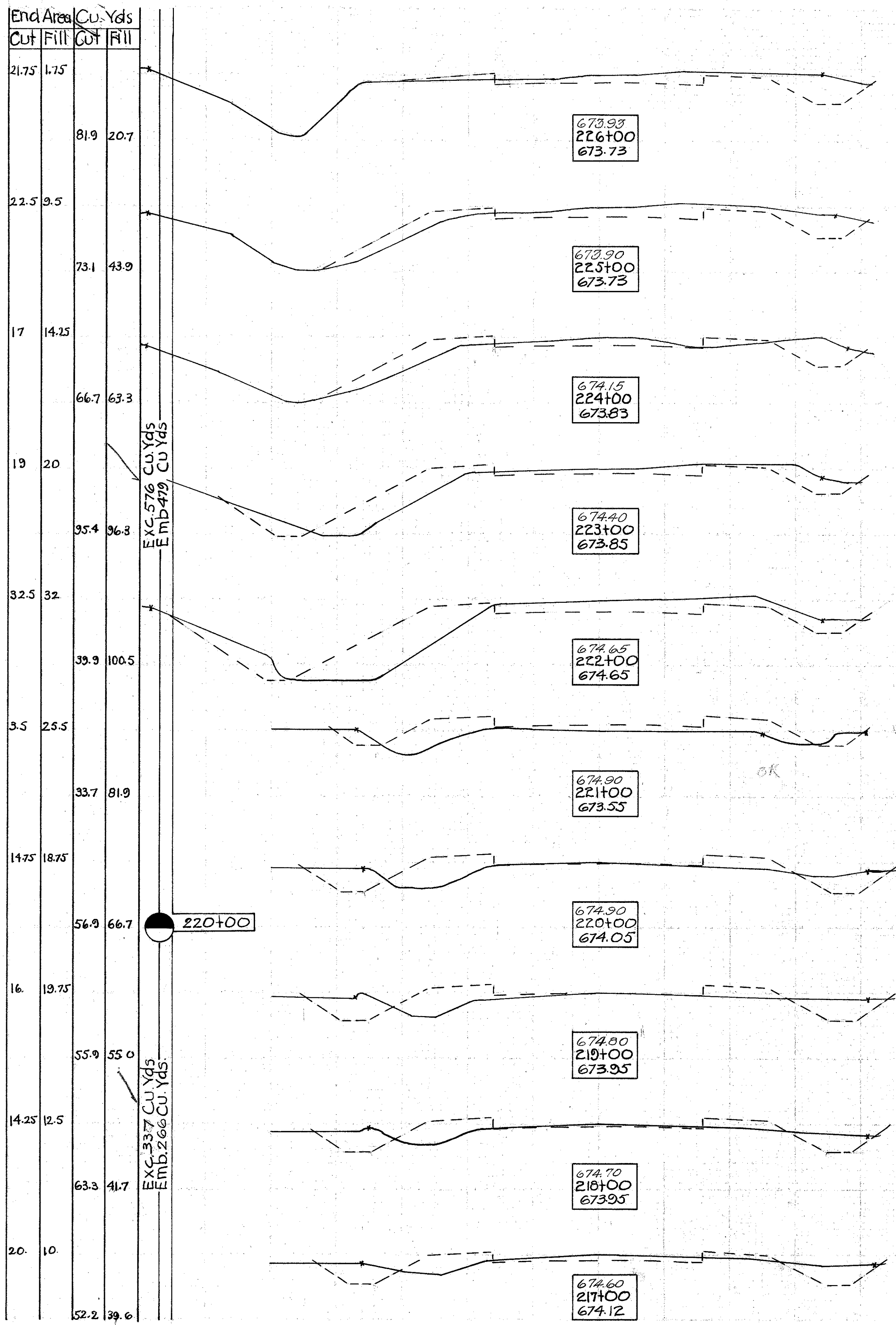
End Area		Cu. Yds.	
Cut	Fill	Cut	Fill
82.5	16.5		
		61.5	46.3
25.0	8.5		
		47.2	16.7
24.0	8.75	43.7	15.5
		83.7	30.9
21.25	8.00		
		69.8	39.8
14.0	13.5		
		25.9	150.4
00	67.75		
		4.8	104.8
2.5	37.5		
		21.3	92.6
9.0	12.5		
		74.1	28.7
31.0	3.0		
		126.3	10.2
37.25	2.5		
		128.1	10.2

Exc. 710 Cu. Yds.
Emb. 595 Cu. Yds.

214+50



I. C. H NO 22, SECS "T & U"
SANDUSKY CO.



End Area	Cu. Yds.	
	Cut	Fill
21.75	1.75	
81.9	20.7	
22.5	9.5	
73.1	43.9	
17	14.25	
66.7	63.3	
19	20	
35.4	96.3	
32.5	32	
39.9	100.5	
3.5	25.5	
33.7	81.9	
14.75	18.75	
56.9	66.7	
16	19.75	
55.9	55.0	
14.25	12.5	
63.3	41.7	
20	10	
52.2	39.6	

End Area	Cu. Yds.	
	Cut	Fill
13.0	18.75	
54.6	57.8	
16.5	12.5	
67.6	32.4	
20.0	5.0	
45.7	51.9	
9.75	23	
66.7	48.5	
26.25	3.5	
58.7	78.7	
3.0	39.0	
28.1	34.8	
12.25	12.25	
119.8	22.6	
52.5	0.0	
27.7	6.4	
84.9	15.6	
8.5	11.0	
38.0	37.4	
12.0	9.25	
62.4	20.4	

673.93
226+00
673.73

673.90
225+00
673.73

674.15
224+00
673.83

674.40
223+00
673.85

674.65
222+00
674.65

674.90
221+00
673.55

674.90
220+00
674.05

674.80
219+00
673.95

674.70
218+00
673.95

674.60
217+00
674.12

672.45
236+00
671.30

673.95
235+00
672.98

674.95
234+00
674.08

675.75
233+00
674.48

676.05
232+00
675.28

676.15
231+00
674.28

676.25
230+00
675.18

676.10
229+00
676.13

675.45
228+00
674.33

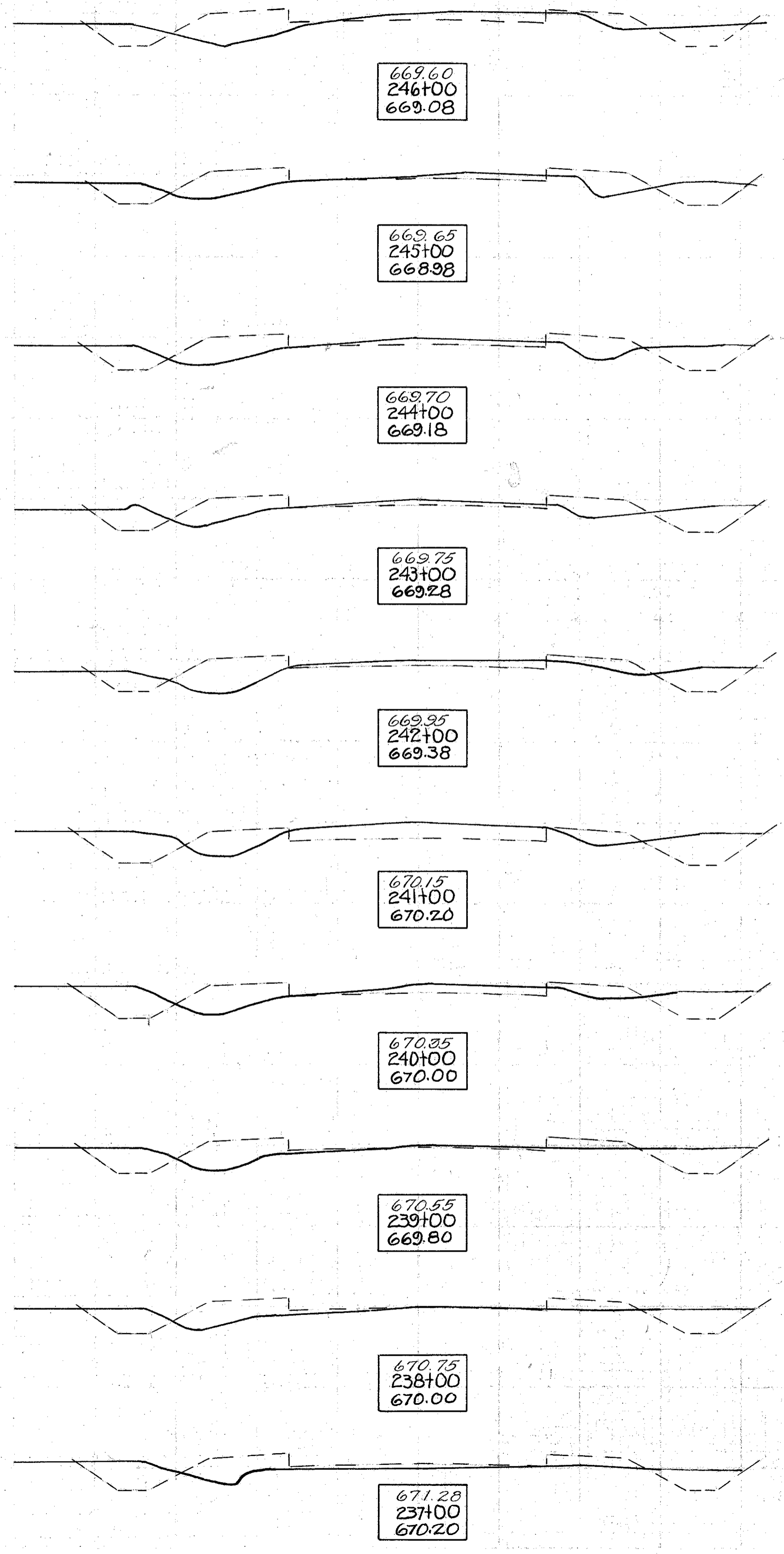
674.55
227+00
673.73

I. C. H. NO. 22, SECS. 'T & U'
SANDUSKY CO.

End Area		Cu. Yds.	
Cut	Fill	Cut	Fill
14.75	14.0		
		51.0	50.9
13.0	13.5		
		52.8	51.3
15.5	14.25		
		54.1	51.3
13.75	13.5		
		54.1	52.2
15.5	14.75		
		87	46.7
31.5	10.5		
		37.2	42.6
21.0	12.5		
		67.6	46.3
15.5	12.5		
		53.7	46.7
13.5	12.75		
		48.4	51.7
12.5	14.		
		47.2	60.6

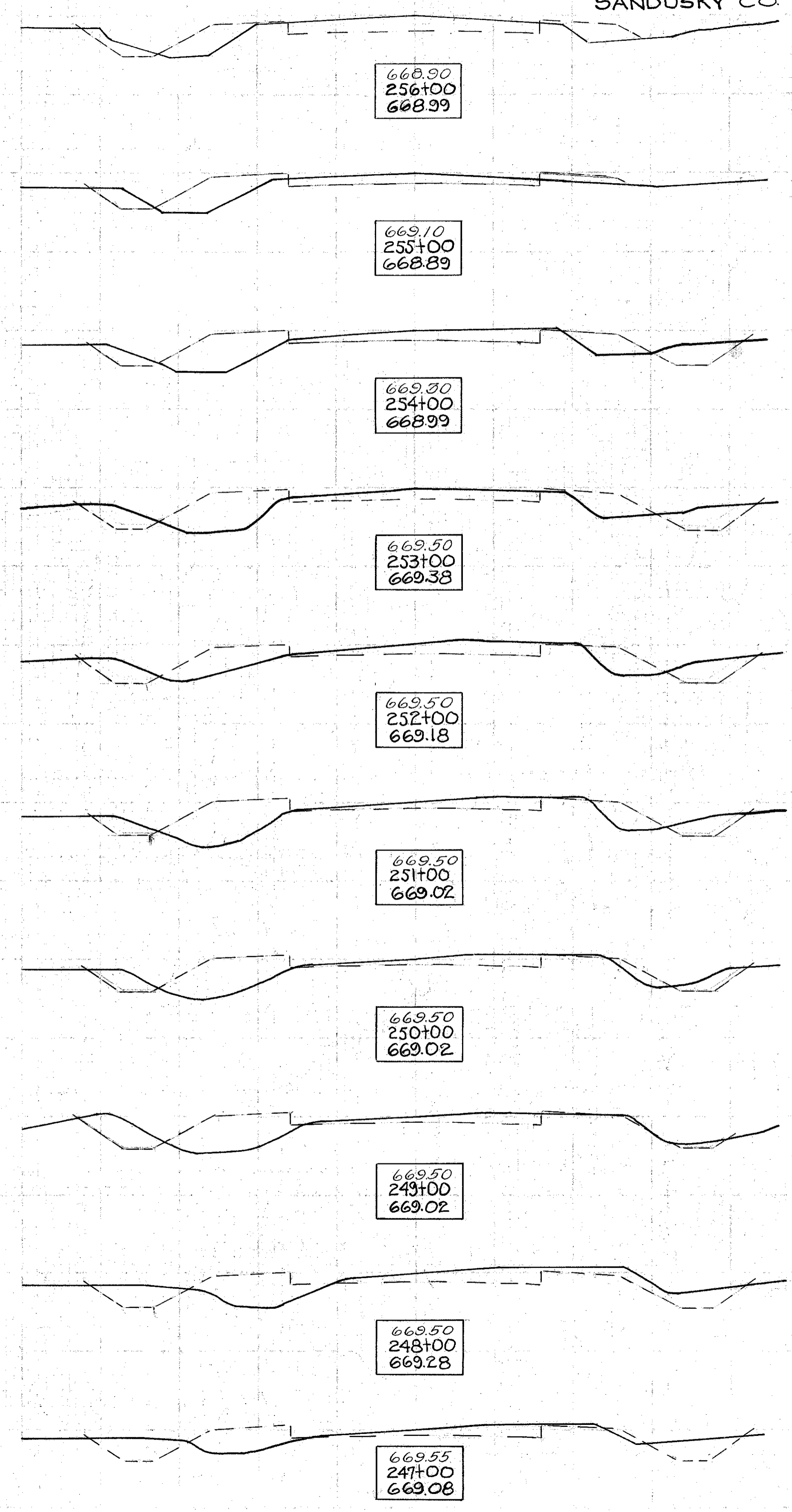
Exc. 299 Cu. Yds.
Emb. 233 Cu. Yds.

Exc. 482 Cu. Yds.
Emb. 390 Cu. Yds.



End Area		Cu. Yds.	
Cut	Fill	Cut	Fill
14.5	10.0		
		46.3	38.9
10.5	11.0		
		54.6	53.7
19.0	18.0		
		72.4	68.0
20.0	18.75		
		75.9	62.4
21.0	15.0		
		66.1	65.2
14.75	20.25		
		52.8	68.5
13.75	16.75		
		54.1	56.9
15.5	14.0		
		70.4	46.7
22.5	11.5		
		76.9	38.9
19.0	9.5		
		62.4	43.5

Exc. 531 Cu. Yds.
Emb. 450 Cu. Yds.

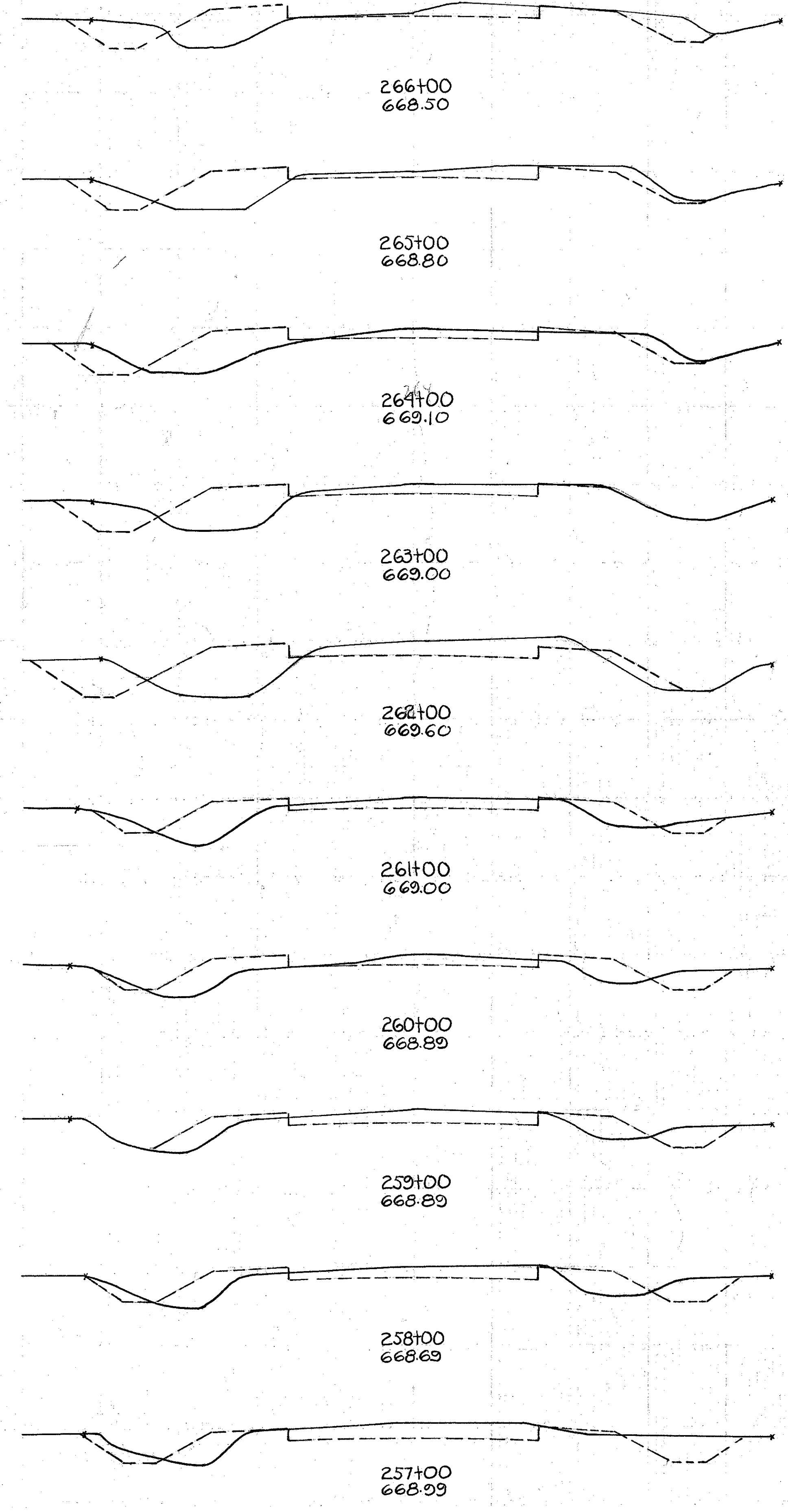


I. C. H. NO 22, SECS 'T & U'
SANDUSKY CO.

End Area		Cu. Yds.	
Cut	Fill	Cut	Fill
19.5	14.75		
		61.1	55.6
16.75	15.25		
		60.2	56.9
15.75	15.5		
		59.6	61.4
16.75	17.25		
		79.1	69.3
22.32	26.25		
		63.9	80.5
13.0	17.2		
		46.2	62.0
12.5	15.5		
		54.1	53.7
16.75	13.5		
		65.2	51.9
18.5	14.5		
		85.6	39.8
27.75	7.0		
		76.1	31.5

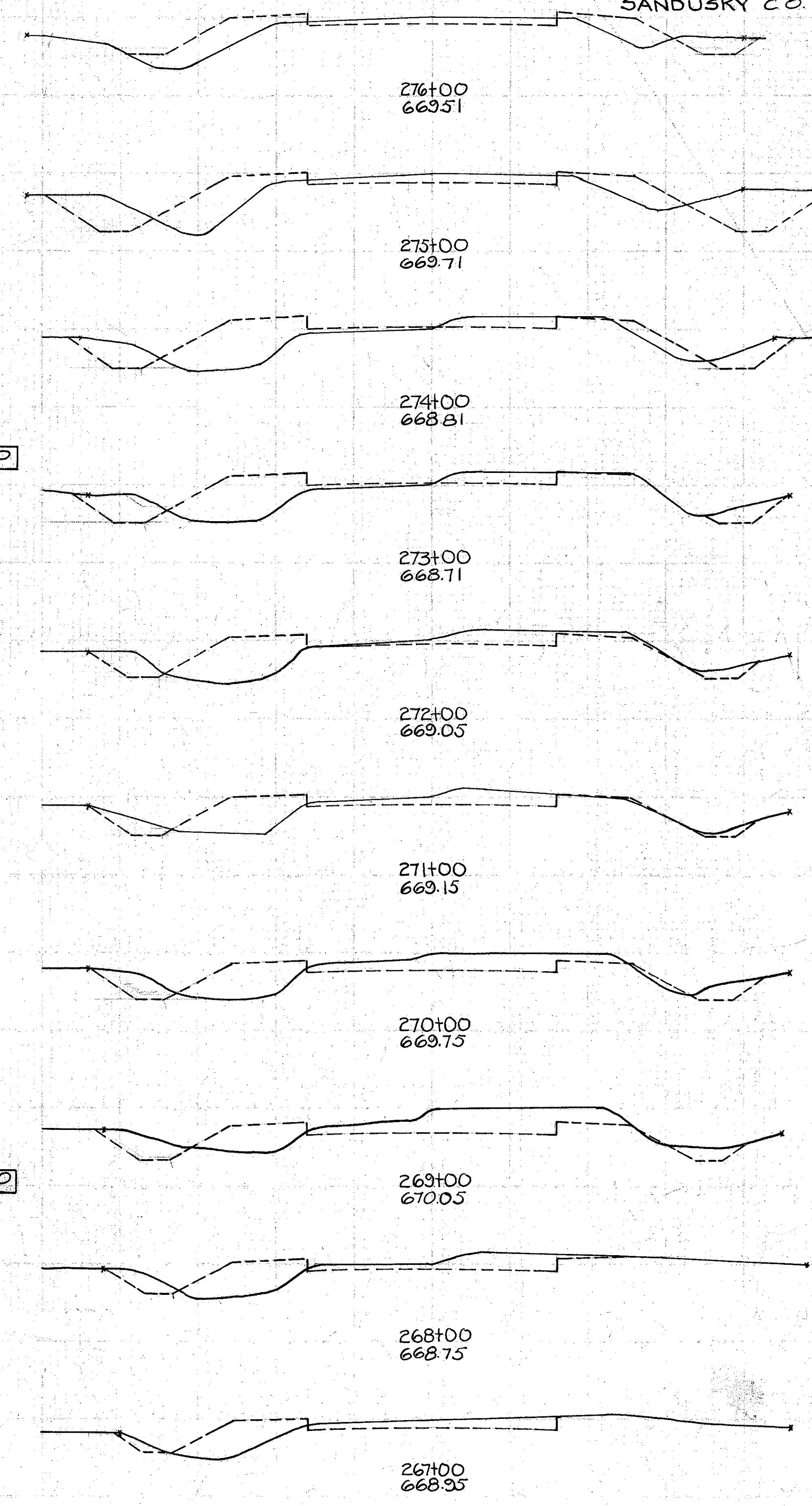
EXC. 453 CU. YDS.
EMB. 378 CU. YDS.

EXC. 494 CU. YDS.
EMB. 442 CU. YDS.



End Area		Cu. Yds.	
Cut	Fill	Cut	Fill
10.0	20.75		
		74.1	80
30.0	22.5		
		83.7	89.3
15.25	25.75		
		23.3	35.4
15.25	20.5		
		33.2	50.2
16	17.5		
		57.4	56.9
15	12.15		
		72.2	50.9
24	14.75		
		100.9	39.3
30.5	9.5		
		85.2	40.7
15.5	12.5		
		47.2	44.8
10.0	11.75		
		54.6	49.1

EXC. 322 CU. YDS.
EMB. 268 CU. YDS.

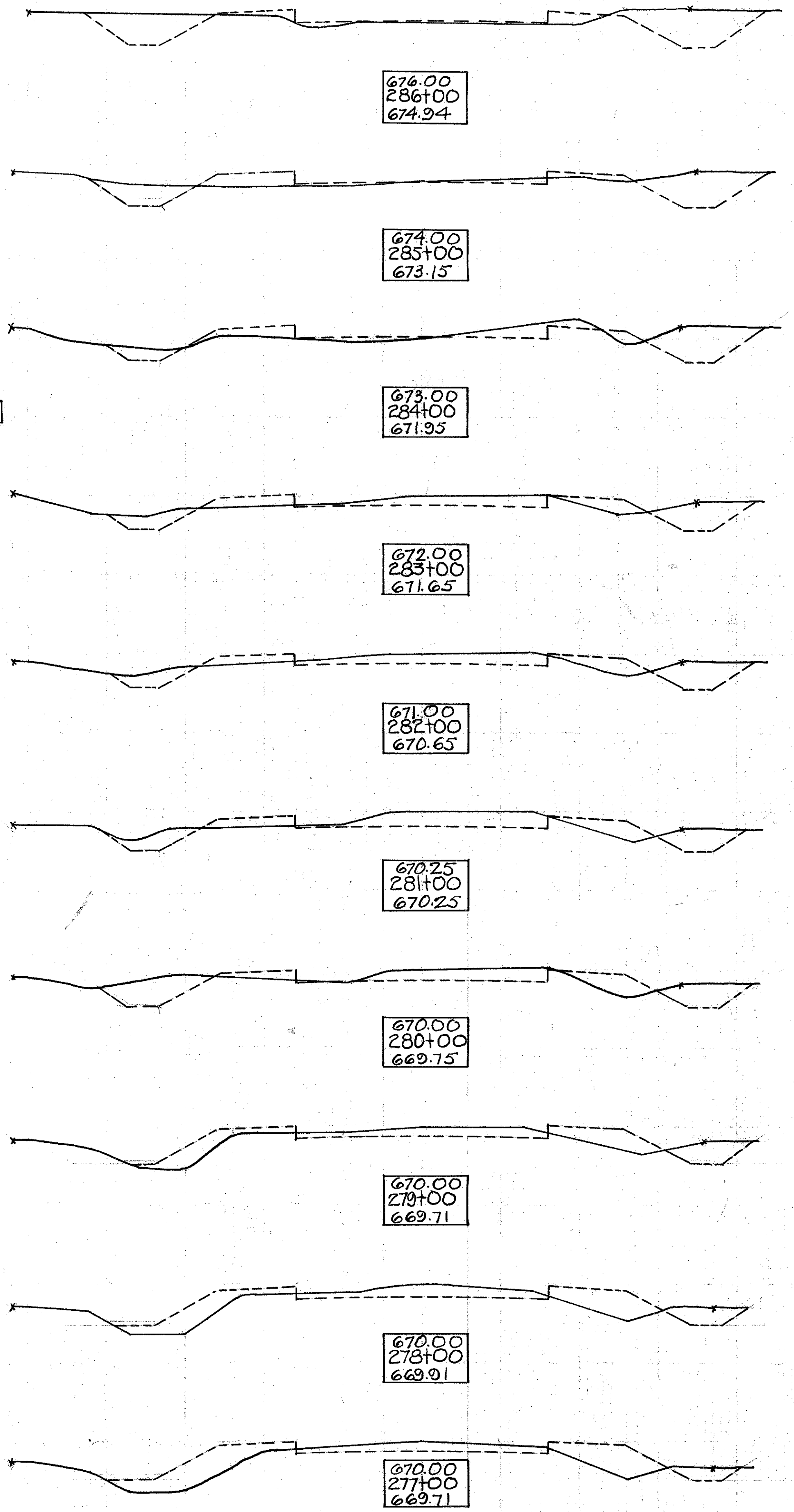


I. C. H NO 22, SECS "T & U"
SANDUSKY CO.

End Area		Cu. Yds.	
Cut	Fill	Cut	Fill
2.6	5.25		
		80.5	23.5
17.5	7.5		
		65.2	24.6
17.75	5.0		
		68.0	23.1
19.0	7.5		
		74.4	27.8
21.25	7.5		
		79.0	28.1
21.5	8.25		
		81.5	29.6
22.5	7.75		
		64.8	39.3
12.5	13.5		
		47.2	57.0
13.0	17.75		
		43.0	74.4
10.25	22.5		
		37.4	80

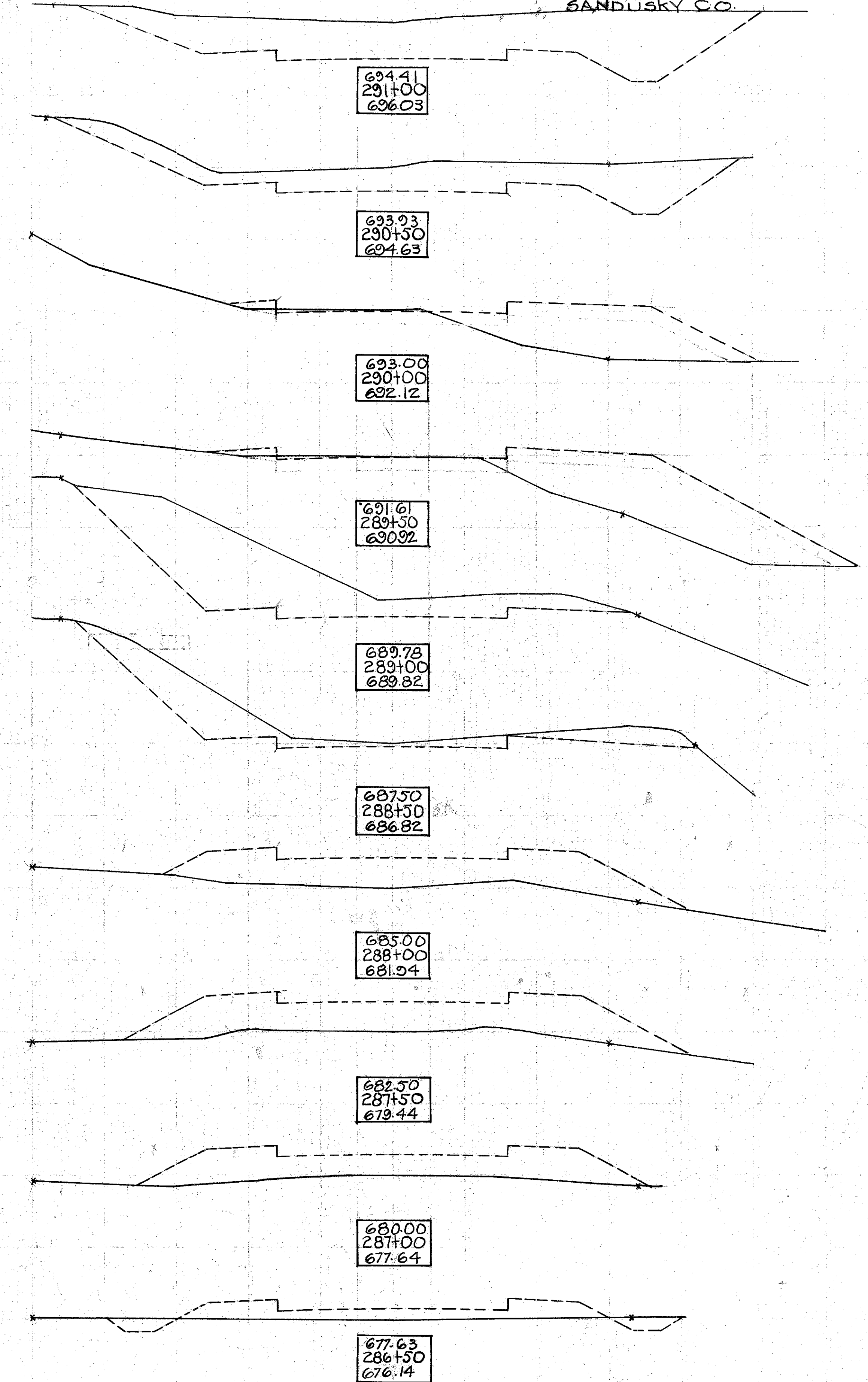
Exc. 677 Cu. Yds.
Emb. 564 Cu. Yds.

284+00



End Area		Cu. Yds.	
Cut	Fill	Cut	Fill
118.5	0.0		
		178.7	0.0
74.5	0.0		
		69.4	51.9
0.5	5.6		
		1.0	127.8
0.5	82.0		
		87.0	75.9
93.5	0.0		
		32.8	0.0
50.0	0.0		
		46.3	63.7
0.0	68.75		
		0.0	136.5
0.0	78.75		
		0.0	146.5
0.0	79.5		
		4.8	97.9
5.25	26.25		
		28.9	29.1

Exc. 943 Cu. Yds.
Emb. 787 Cu. Yds.

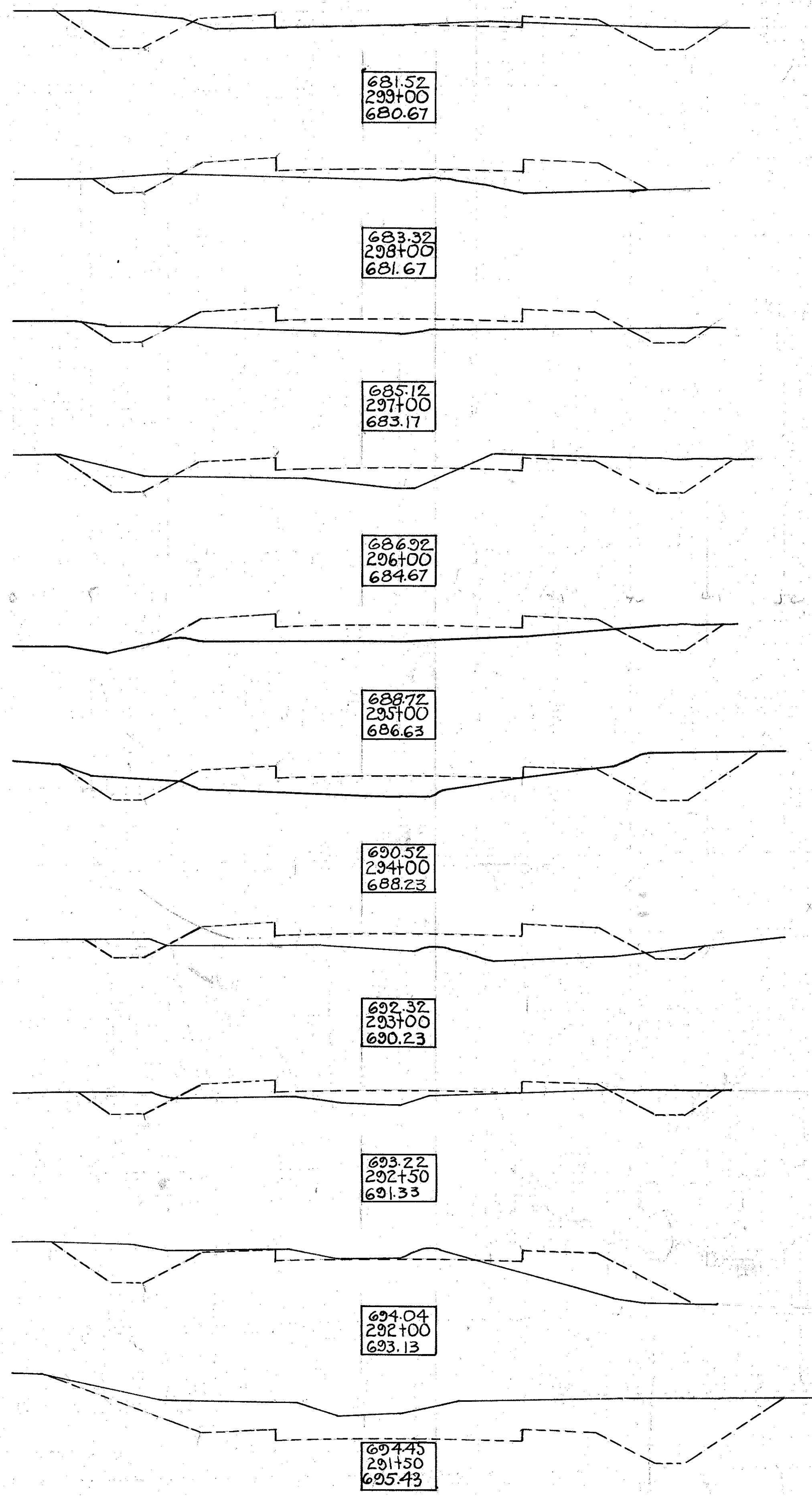


I. C. H. NO 22, SECS "T & U"
SANDUSKY CO.

End Area		Cu. Yds.	
Cut	Fill	Cut	Fill
20.5	6.25		
		45.4	68.5
4.0	30.75		
		21.7	59.3
7.75	26.25		
		59.3	80
24.25	17.0		
		57.8	88.9
7.0	31.0		
		61.5	105.9
26.25	26.25		
		58.7	119.4
5.5	38.25		
		17.0	50.0
13.0	15.75		
		27.2	33.5
16.5	20.5		
		52.1	9.5
94.25	00		
		51.3	9.6
		197.1	00

Exc. 813 Cu. Yds.
Emb. 785 Cu. Yds.

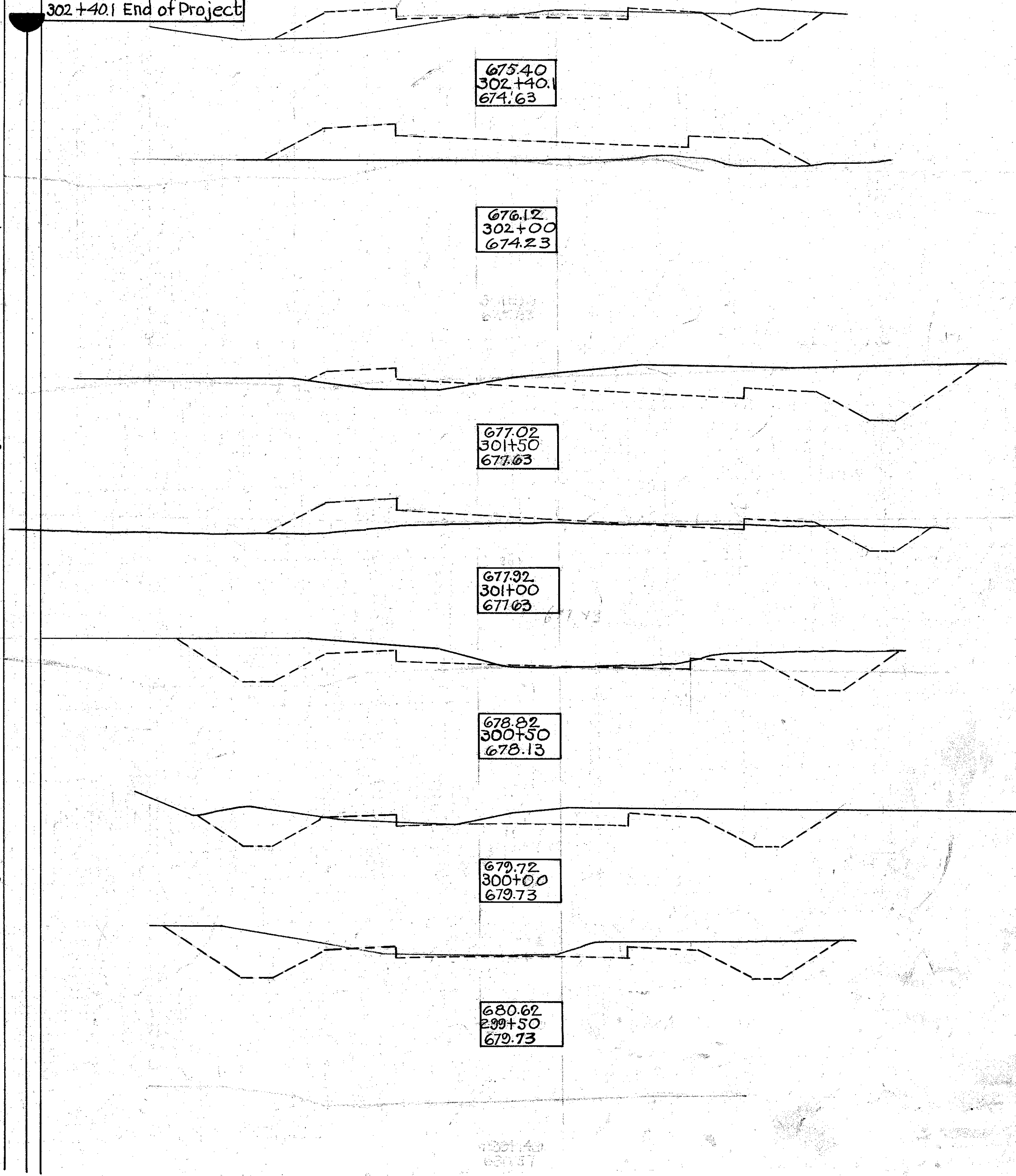
29475



End Area		Cu. Yds.	
Cut	Fill	Cut	Fill
13.75	14.25		
		102	49.8
00	53		
		59.1	57.4
63.75	9.0		
		67.0	30.6
8.75	24.0		
		50.9	22.2
46.25	00		
		81.9	1.3
42.25	1.25		
		81.7	2.00
46.0	1.0		
		61.5	6.7

302+40.1 End of Project

29475

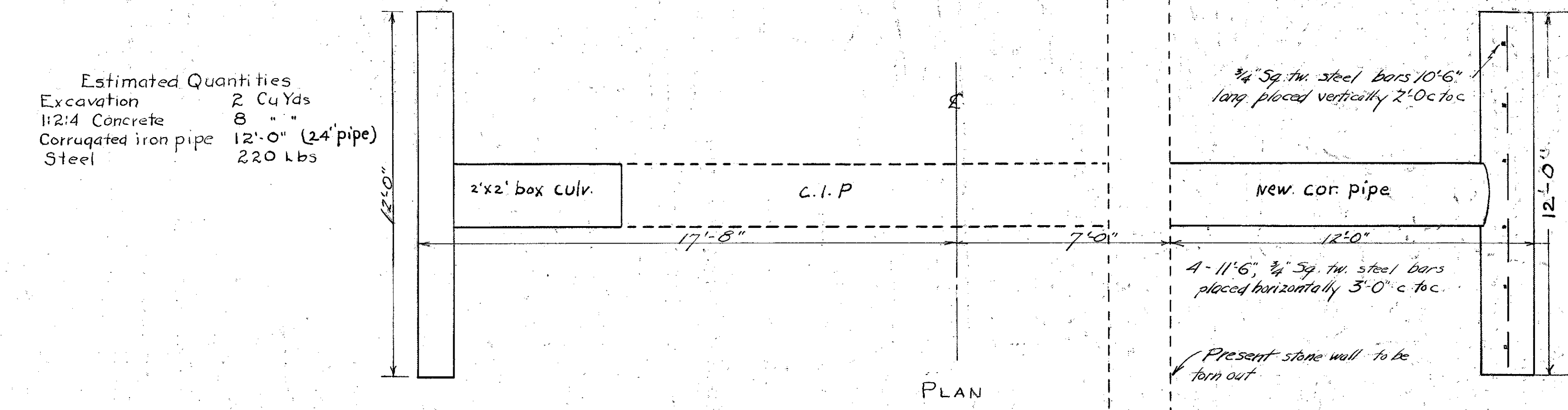


I.C.H. NO. 22, SECS. T & U
SANDUSKY CO.

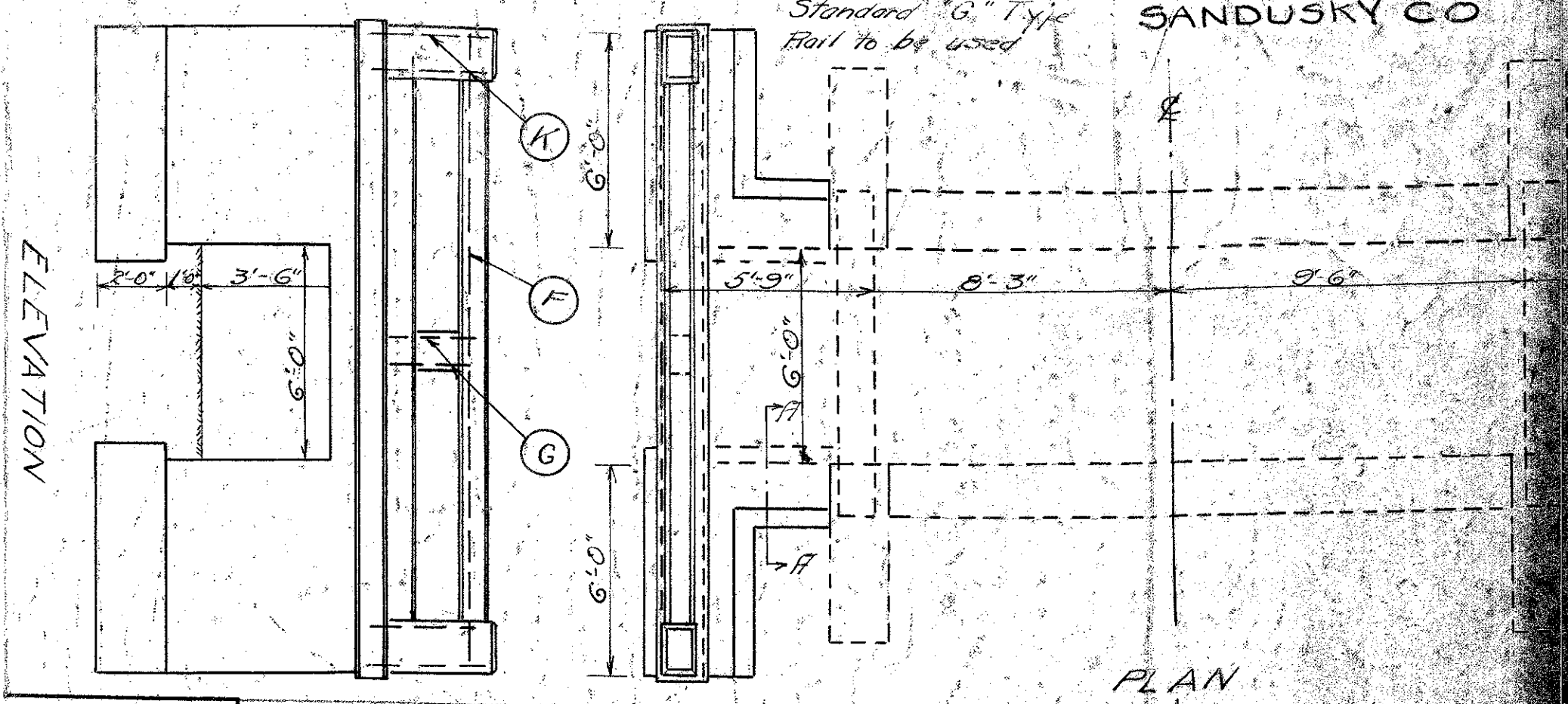
Station 30+2

Station 261+62

Estimated Quantities
Excavation 2 Cu Yds
1:2:4 Concrete 8 " "
Corrugated iron pipe 12'-0" (24" pipe)
Steel 220 Lbs

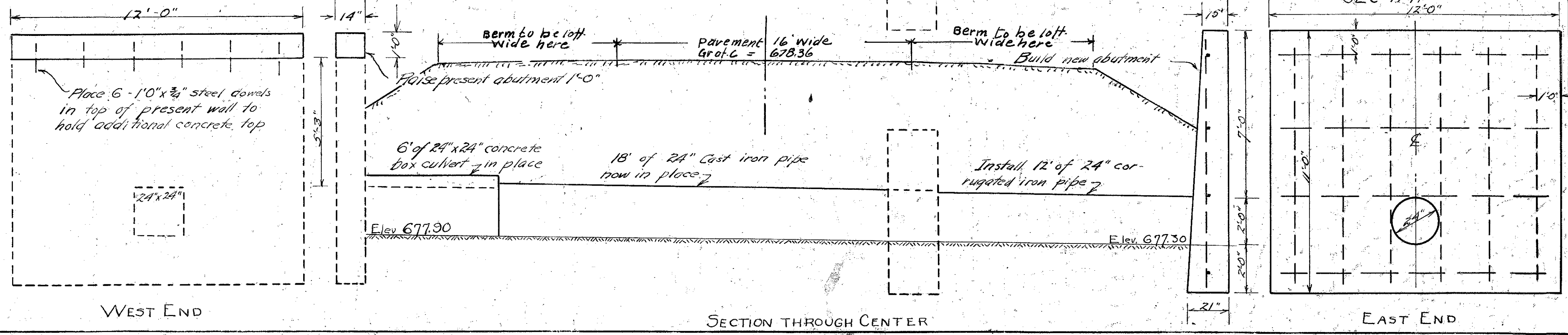


Bar No.	Size	Length	Spacing	WT
F 12	1/2"	8'-0"	6" c to c	82
F 4	3/8"	17'-0"	On stems	33
G 8	"	5'-6"	"	13
K 16	"	4'-0"	"	31
Total				159



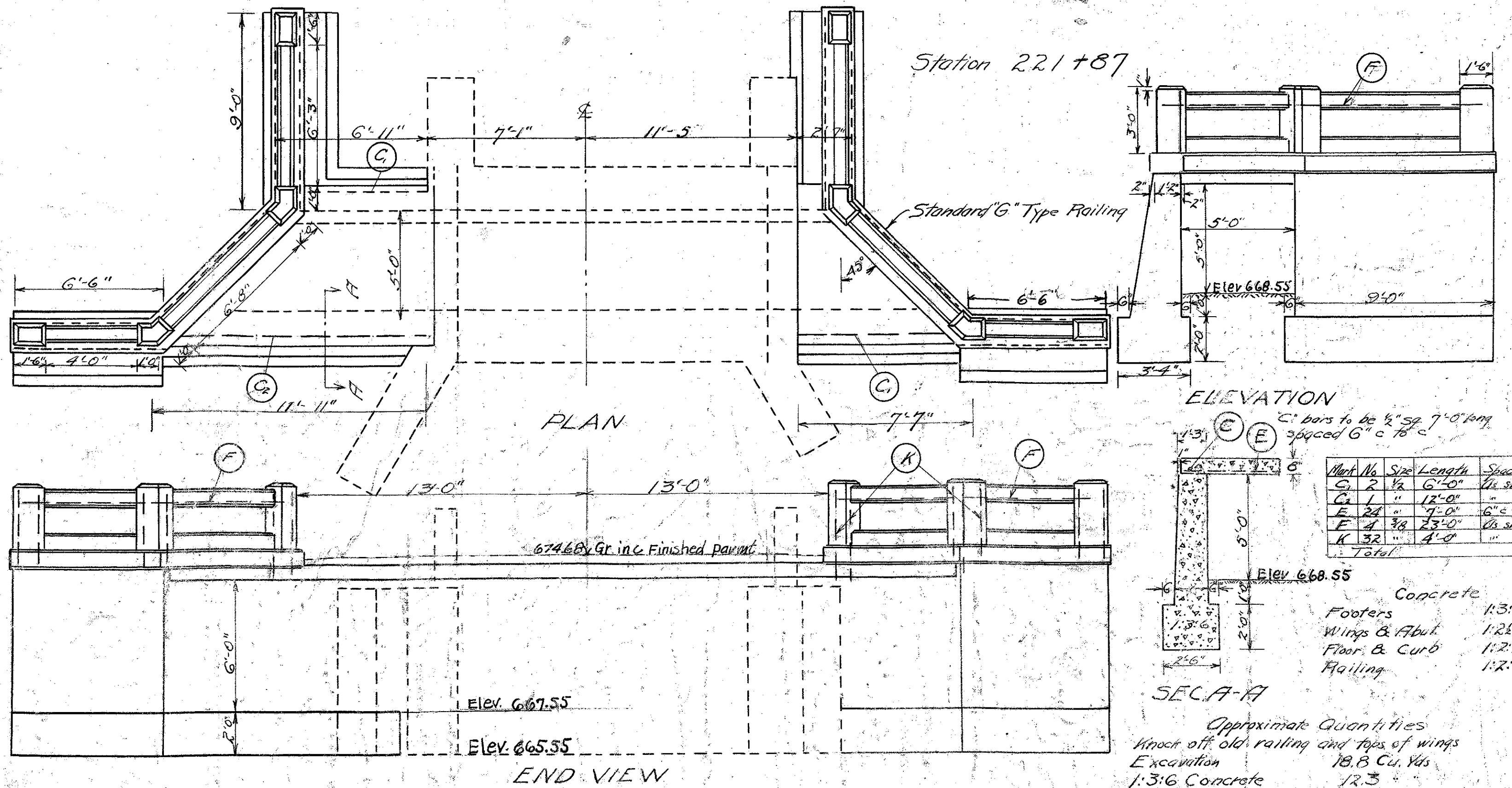
Estimated Quantities
Excavation 10 Cu Yds
1:3:6 Concrete 7 " "
1:2:4 8.5 " "
1:2:4 3.4 " "
Steel 159 Lbs
Type "G" Railing 36 Ft.
Knock off old railing & tops of wings

Concrete
Footers 1:3:6
Wings & Abut. 1:2:4
Floor & Curb 1:2:4
Railing 1:2:3



HALF SECTION HALF END V.
Use standard design for extension

Station 221+87



Bar No.	Size	Length	Spacing	WT
G 2	1/2"	6'-0"	On stems	10
C 1	"	12'-0"	"	10
E 24	"	9'-0"	6" c to c	143
F 4	3/8"	23'-0"	On stems	44
K 32	"	4'-0"	"	184
Total				268

Concrete
Footers 1:3:6
Wings & Abut. 1:2:4
Floor & Curb 1:2:4
Railing 1:2:3

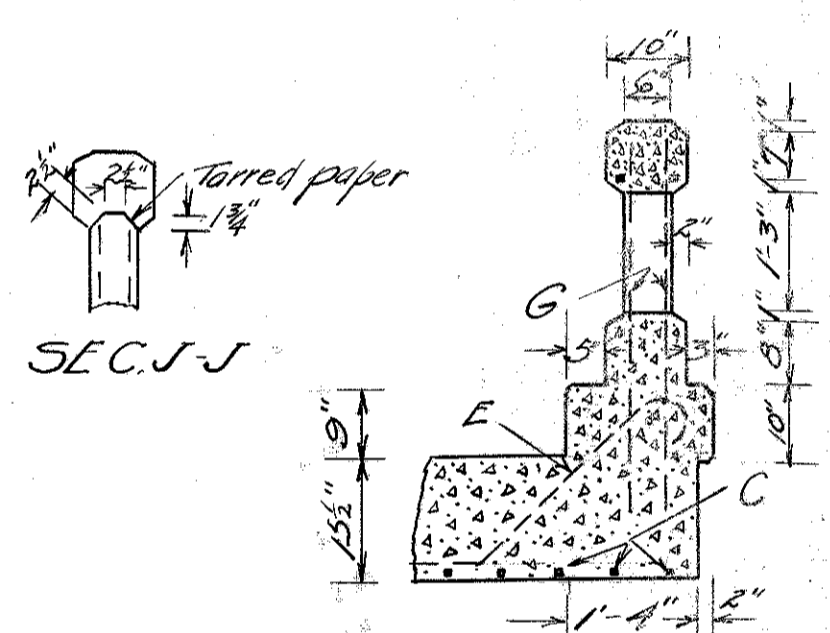
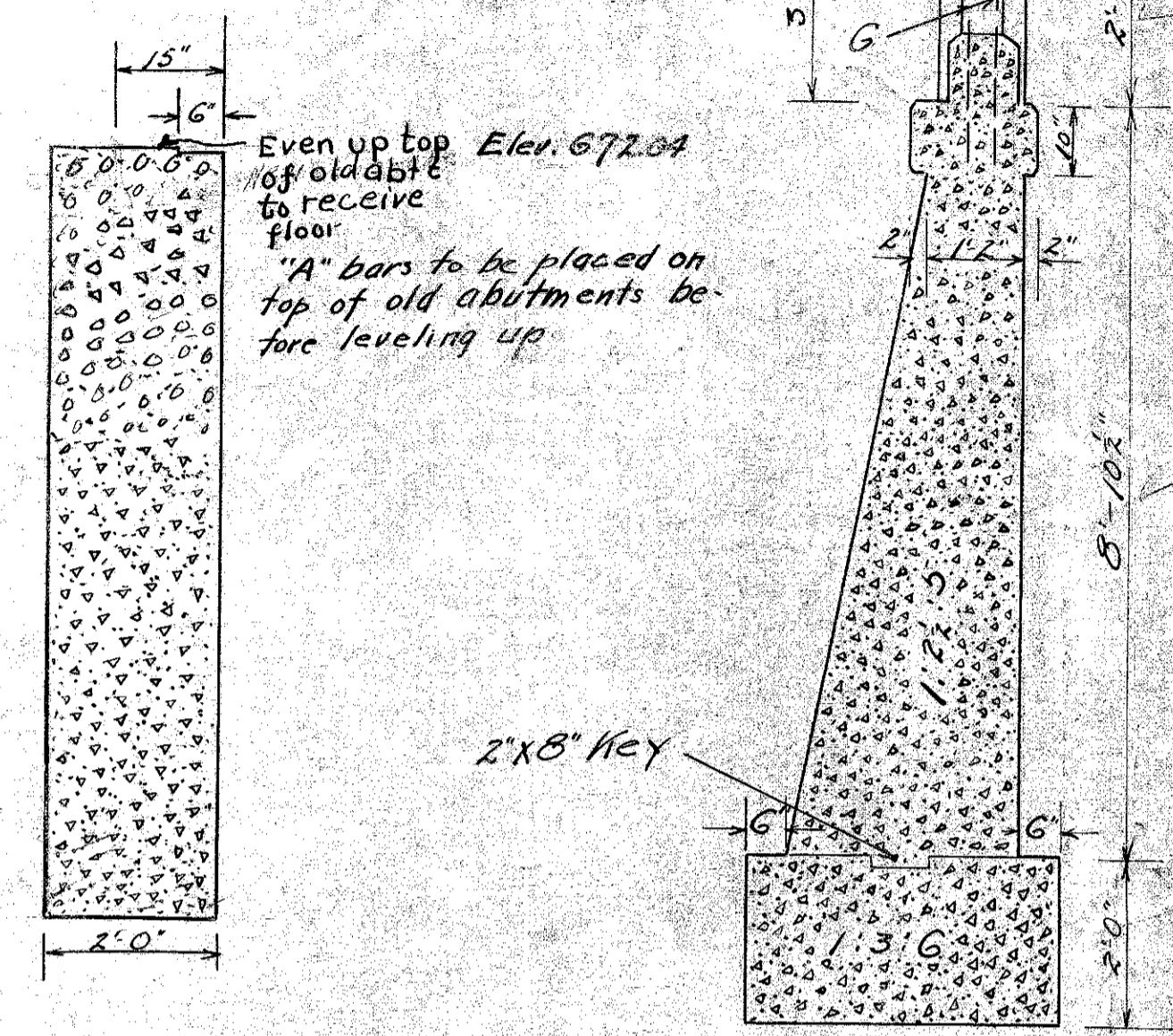
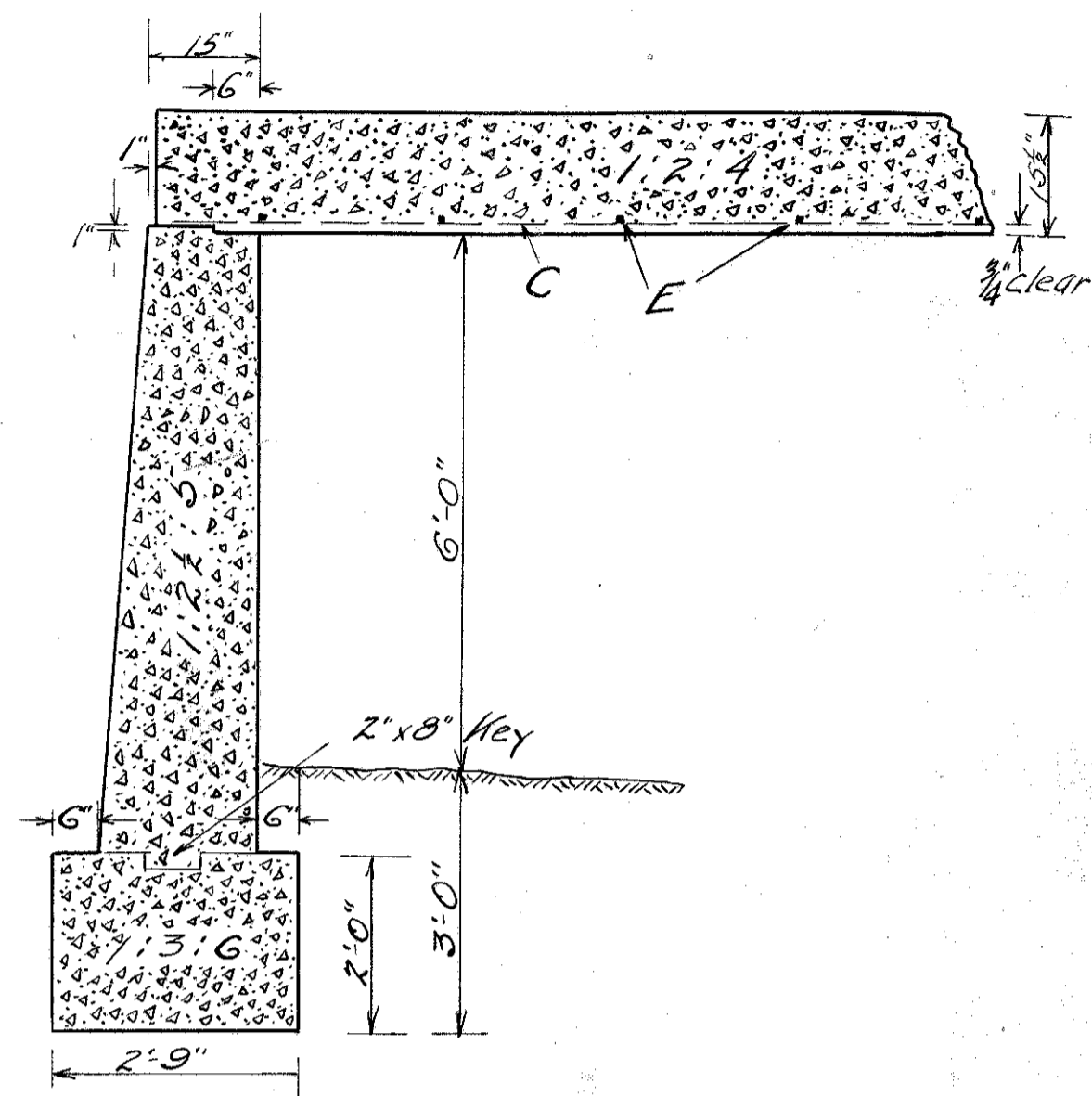
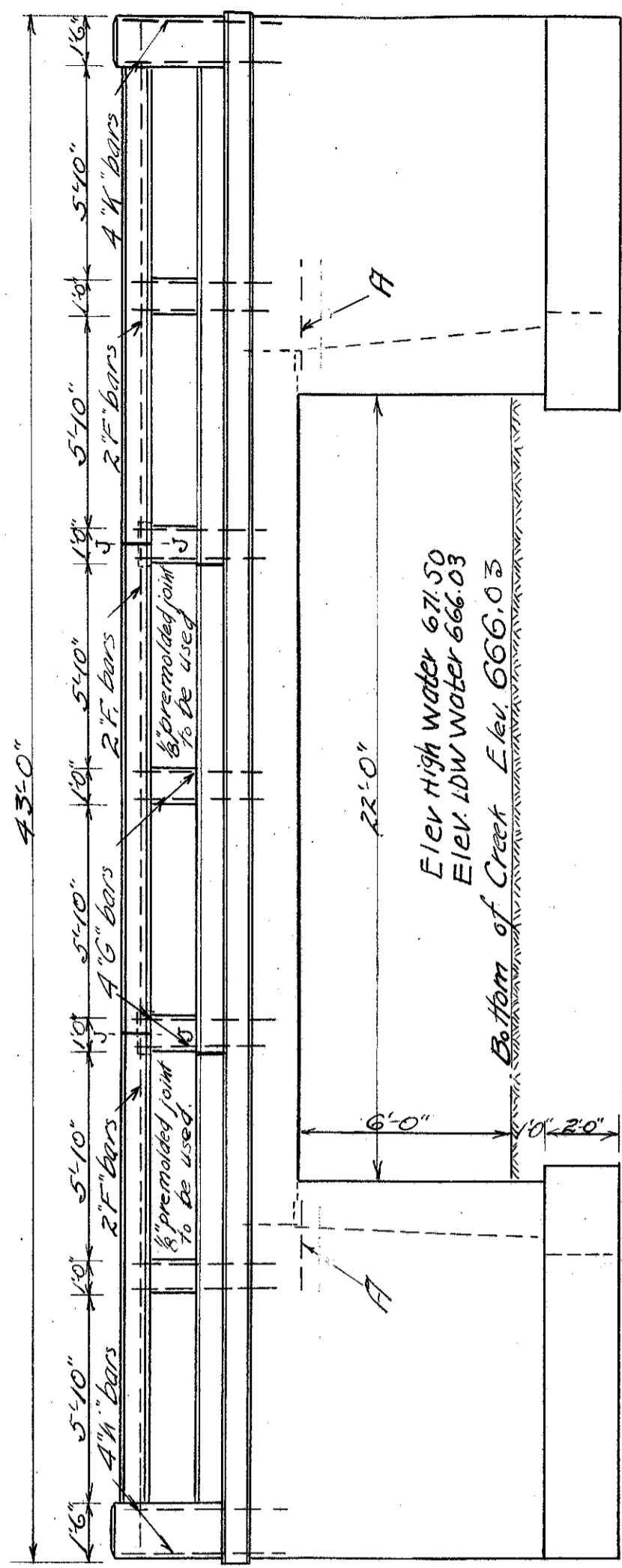
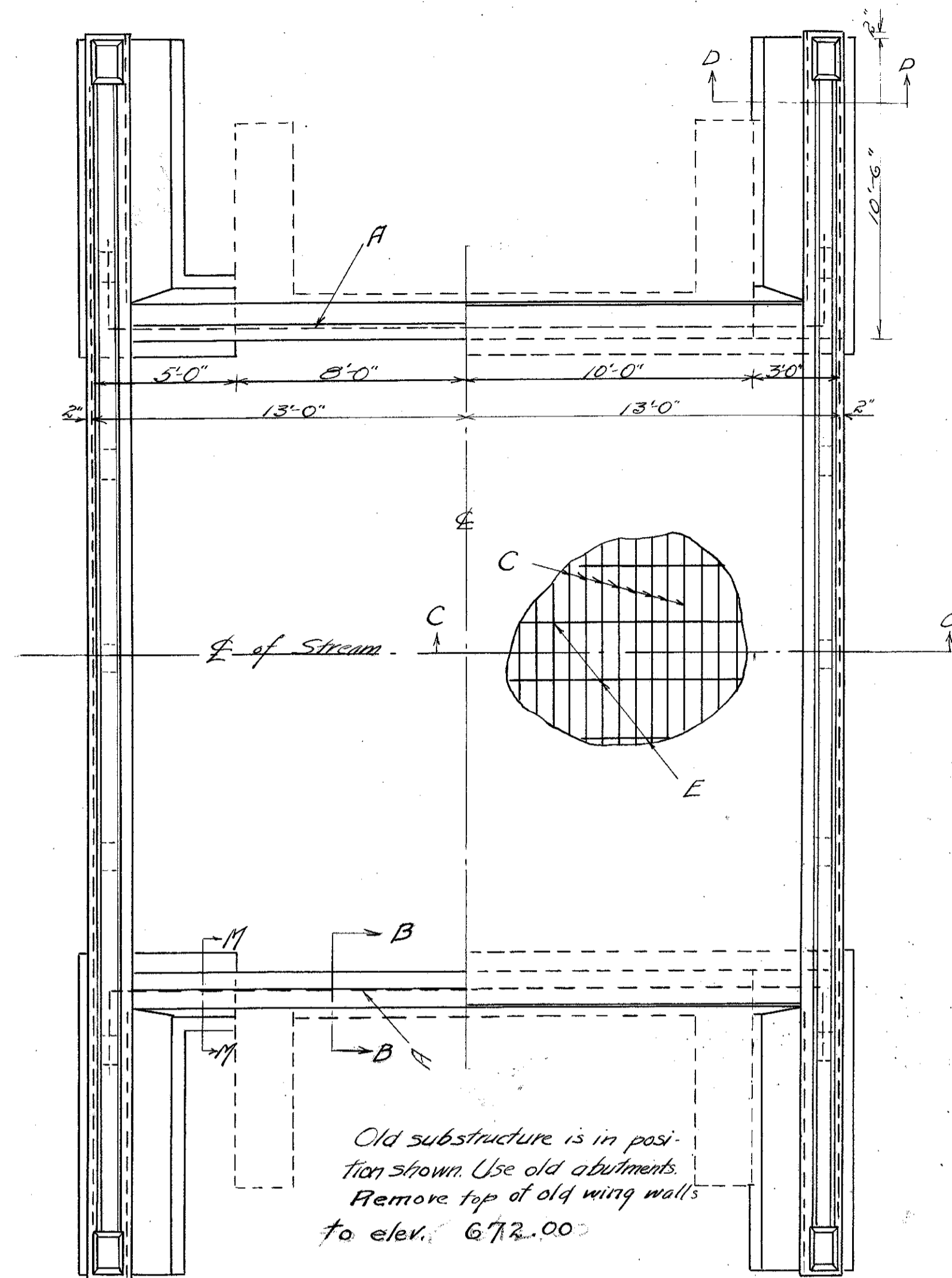
Approximate Quantities
Knock off old railing and tops of wings
Excavation 18.8 Cu Yds
1:3:6 Concrete 12.3 " "
1:2:4 20.9 " "
1:2:4 4.7 " "
Steel 268 Lbs
Type "G" Railing 48 Ft

STATION 178+17

FED. RD. DIST. NO.	STATE	FED. AID PROJECT	FISCAL YEAR
10	OHIO	257	1922

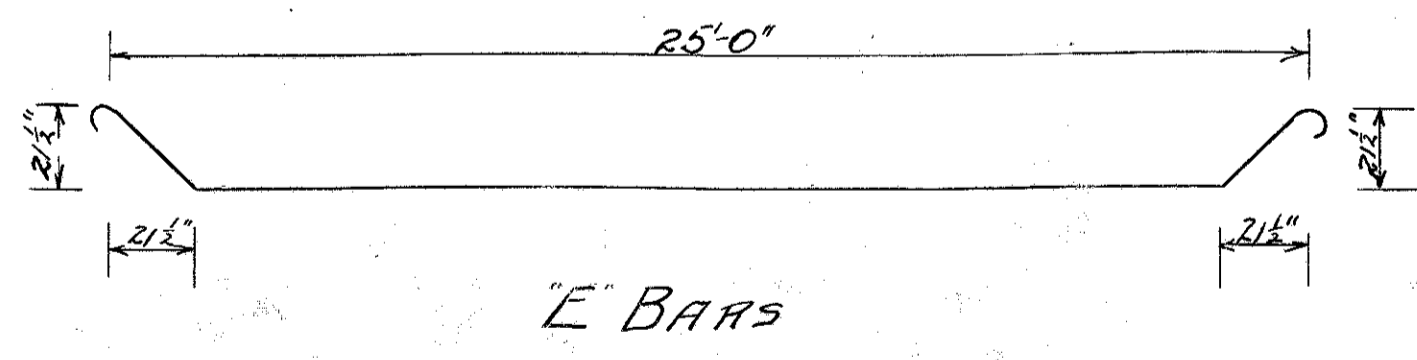
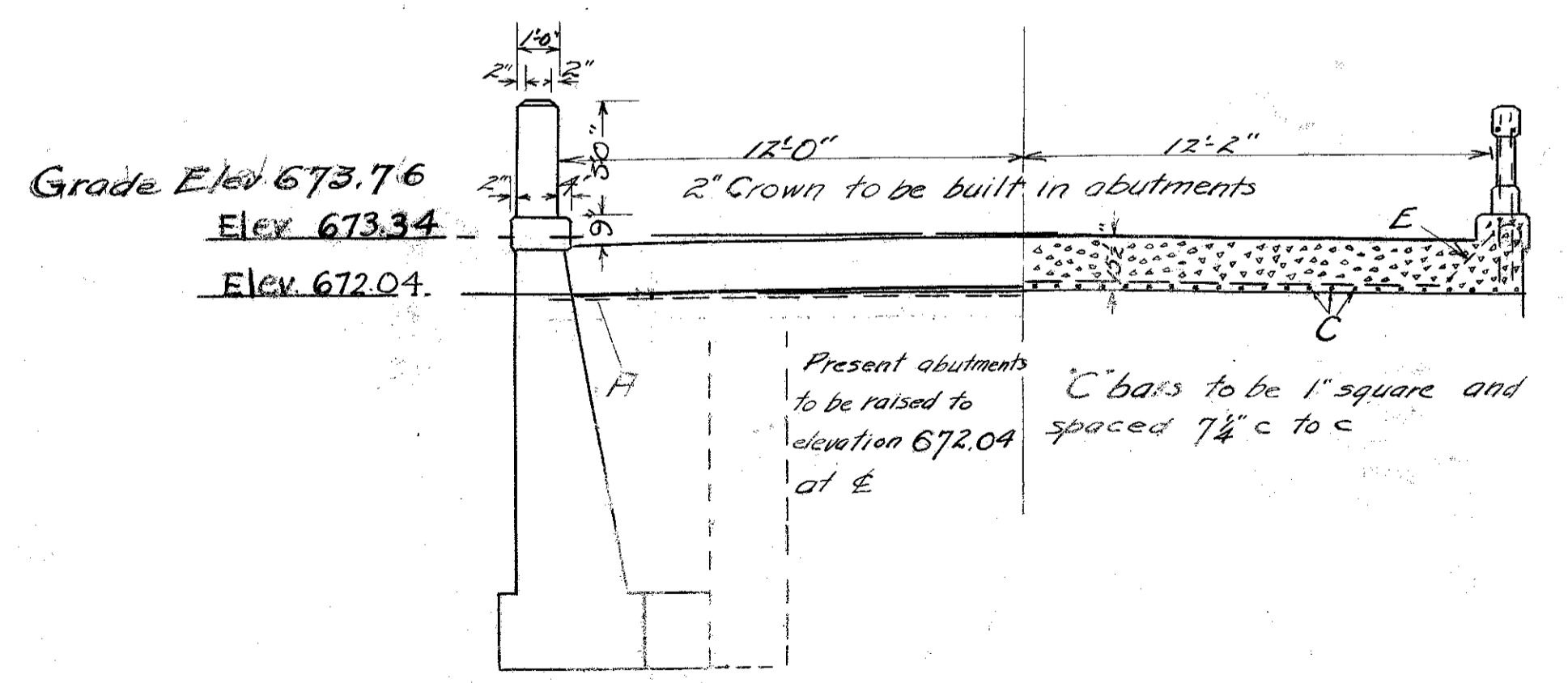
31
32

I. C. H. NO. 22, SECS. T & U
SANDUSKY CO.



Mark	No.	Size	Length	Spacing	Weight
A	4	3/4" Ø	30'-0"	As shown	180
C	43	1" Ø	24'-0"	7 1/4" c/c	3509
E	12	1/2" Ø	28"	2'-0" c/c	288
F	8	3/8" Ø	14'-8"	As shown in rail	64
F1	4	3/8" Ø	13'-6"	"	26
G	40	3/8" Ø	3'-6"	"	60
H	16	3/8" Ø	4'-0"	"	31
Total					4453

Velocity of Stream 3.5 Ft per Sec.
Sub soil - Blue clay



ESTIMATED QUANTITIES

REMOVE OLD SUPERSTRUCTURE (I-BEAM BRIDGE)	
EXCAVATION	16.3 Cu Yds.
FOOTINGS 1:3:6 CONCRETE	12.7 " "
WINGS & ABUTS 1:2 1/2:5 " "	25.9 " "
SLAB & CURB 1:2:4 " "	34.5 " "
TYPE "G" RAILING 1:2:3 " "	86 LIN. FT.
STEEL	4453 LBS.

PLAN
OF
CONCRETE SLAB BRIDGE
SPAN 22'-0" ROADWAY RA.
STA. 178+17

SUMMARY OF BRIDGES UNDER 20 FT. SPAN

Sta.	Type	Size	Excavation Cu. Yds.	CU. Yds. Concrete			steel Lbs	Relaying				New Pipe					Cast Iron Grating	Catch Basins No.	Type G Railing	Pointing Hd. Wls. Sq. Yds	Remarks
				1:1.3:6	1:2:4	1:2.5:5		Vit. Sewer P. 20"	Corgald 24"	C.I. P 14"	Vit. Sewer Pipe		Corgald 24"	C.I. Pipe							
											12"	20"		14"	36"						
30+2'	Cor. Pipe	24"	2		8		220												Extend Culv to right 12 ft.		
49+8'	Enc. Vit. S.P.	12"	18.8	6.0	1.		23						56'						New 5' dia. 12" Culvert, 1 std. hd. wall		
72+15'	" " "	12"	10.1	3.8									36'						Catch Basin on d. side headwall		
82+50'	" " "	12"	6.0	3.2	2.0		45						30'						New 5' dia. 12" Culvert and Two 5' dia. No. 1 Catch Basins		
84+53'	C.I. P.	36"	1.0		2.9		58												New std pipe culv 12"		
106+62.7	Enc. Vit. S.P.	12"	6.0	2.6	2.6		45						26'					14'	Extend present Culv. right 18'		
115+50'	" " "	12"	10.0	3.2	2.0		45						32'						Build 1. std. headwall, Pointing Hd. wall		
123+3'	" " "	12"	7.5	3.7	2.0		45						36'						New 5' dia. side road 12"		
141+65'	C.I. P.	14"	5.0		2.9		50												Culv crosses rd running south		
141+77'	Enc. Vit. S.P.	12"	8.0	3.2	1.3		23						32'						New std pipe culv		
168+40'	" " "	12"	6.0	3.2	2.8		45						32'						Old. Relay 25' C.I. P. add 8' new 1/2" C.I. P. 2 hd. wls. Std.		
168+50'	Cor. Pipe	16"	6.0		1.5		25						32'						New std. rd. culv. with 1 std. side rd. hd. wall		
209+43.5	Enc. Vit. S.P.	12"	10.0	3.9	2.0		45						38'						New std. rd. culv.		
210+40'	" " "	12"	13.0	3.9	2.0		45						38'						Relay 32' of 16" cor pipe, build 1 std. side rd. hd. wall & 1. No. 1 C.B.		
210+87'	" " "	12"	14.0	3.9	2.0		45						38'						New std. pipe culv.		
221+47'	" " "	20"	13.0	5.8	3.5		55	32'					4'						New std. pipe culv.		
221+87'	Conc. Slab	5'-0" x 5'-0"	18.8	12.3	4.7	20.9	268												Old. Relay 32' 20" vit pipe and furnish 4' new 20" vit pipe 2 std		
261+62'	" " "	3'-6" x 6'-0"	10.0	7.0	3.4	8.3	159												Extend present slab br. See Spec Plan.		
274+89'	Enc. Vit. S.P.	24"	14.0	6.6	3.5		75		24										Extend present slab br. See Spec Plan.		
302+00	" " "	12"	20	13.0	2.3		45						120'						Relay 25' of vit p & furnish 10' new pipe 2 hd. wls. Std.		
Totals			199.2	85.3	52.4	29.2	1361	32	24'	32'	25'	516.0	4'	10'	12'	8'	18'	4	84'	14	Build 1. std. 12" Culvert with one std. headwall and one std. side rd. headwall

FED. RD. DIST. NO.	STATE	FED. AID PROJECT	FISCAL YEAR
10	OHIO	257	1922

I. C. H. NOZZ, SECS 'T & U'
SANDUSKY CO.

SUMMARY OF BRIDGE OVER 20 FT. SPAN

Sta- zoon	Type	Size	Excav. Cu. Yds.	CU. Yds. Concrete			Steel	Type G Railing	Remarks
				1:3:6	1:2:4	1:2.5:5			
178+17'	Slab	5'-9" x 22'-0"	16.3	12.7	34.5	25.9	4+53	86'	See Special Design Remove old 22' x 16' Steel Bridge

SUMMARY OF PRIVATE CULVERTS

Station	Type	Size	Length	Exc. Cu. Yds.	CU. Yds. Conc.		Steel Lbs.	Remarks
					1:2:4	1:3:6		
19+50 R	Corgld. P.	12"	16'	1.0	1.3		30	18' WLS 5'-6" 10' x 3'-4" 11' 9" x 12" thick of 1:2.5:5 conc.
29+12 R	" "	12"	16'	1.0	1.3		30	" "
44+83 R	" "	12"	16'	1.0	1.3		30	" "
54+23 L	" "	12"	16'	1.0	1.3		30	" "
60+70 R	" "	12"	16'	1.0	1.3		30	" "
61+27 L	" "	12"	16'	1.0	1.3		30	" "
65+23 R	" "	12"	16'	1.0	1.3		30	" "
91+40 R	" "	12"	16'	1.0	1.3		30	" "
99+20 L	" "	12"	16'	1.0	1.3		30	" "
120+72 L	" "	12"	16'	1.0	1.3		30	" "
122+78 R	" "	12"	16'	1.0	1.3		30	" "
125+15 L	" "	12"	16'	1.0	1.3		30	" "
141+50 L	" "	12"	16'	1.0	1.3		30	" "
148+32 L	" "	12"	16'	1.0	1.3		30	" "
148+33 R	" "	12"	16'	1.0	1.3		30	" "
154+97 L	" "	12"	16'	1.0	1.3		30	" "
155+3 R	" "	12"	16'	1.0	1.3		30	" "
161+38 L	" "	12"	16'	1.0	1.3		30	" "
161+38 R	" "	12"	16'	1.0	1.3		30	" "
166+22 R	" "	12"	16'	1.0	1.3		30	" "
167+7 R	" "	12"	16'	1.0	1.3		30	" "
167+22	V.S.P.	12"	114'	10.0	2.0		45	" "
179+67 L	Corgld. P.	12"	16'	1.0	1.3		30	" "
211+10 L	" "	12"	16'	1.0	1.3		30	" "
221+3 L	" "	12"	16'	1.0	1.3		30	" "
221+5 R	" "	12"	16'	1.0	1.3		30	" "
228+15 L	" "	12"	16'	1.0	1.3		30	" "
241+37 L	" "	12"	16'	1.0	1.3		30	" "
248+10 R	" "	12"	16'	1.0	1.3		30	" "
254+30 L	" "	12"	16'	1.0	1.3		30	" "
254+80	V.S.P.	12"	236'	30.0	2.0	1.8	45	5" of Conc around S. end 16' long
257+16 R	" "	12"	16'	1.0	1.3		30	" "
285+70 L	Corgld. P.	12"	16'	1.0	1.3		30	18' WLS 5'-6" 10' x 3'-4" 11' 9" x 12" thick of 1:2.5:5 conc.
282+61 R	" "	12"	16'	1.0	1.3		30	" "
287+28	" "	12"	16'	1.0	1.3		30	" "
Totals	Corgld. Vit. P.		5660	75	4560	18	1050	

Type "A"
Excavation 18938 Cu. Yds.
Concrete Base 54154. Sq. Yds.
Brick Pavement 50836. Sq. Yds.
Asphalt Filler 50836. Sq. Yds.
Concrete Curb 60537.4 Lin. Ft.
Reinforcing Steel } 1141 lbs.
over Culverts }

Type "B"
Excavation 17348 Cu. Yds.
Pavement (Reinf. Conc.) 54154. Sq. Yds. also 43.6 Sq. Yd. plain 4 1/2" thick
Reinforcing Steel } 1141 lbs.
over Culverts }

Type "C"
Excavation 18408 Cu. Yds.
Conc. Base 54154. Sq. Yds.
Bitum. Conc. Pav. 50836. Sq. Yds.
Concrete Curb 60537.4 Lin. Ft.
Reinforcing Steel } 1141 lbs.
over Culverts }

177533.00
6167.00
184000.00