

6006

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR
	OHIO		

1/30

I.C.H. NO. 270 SEC. C. FILE No. SENECA COUNTY

File # 130

STATE HIGHWAY DEPARTMENT OF OHIO BUREAU OF CONSTRUCTION

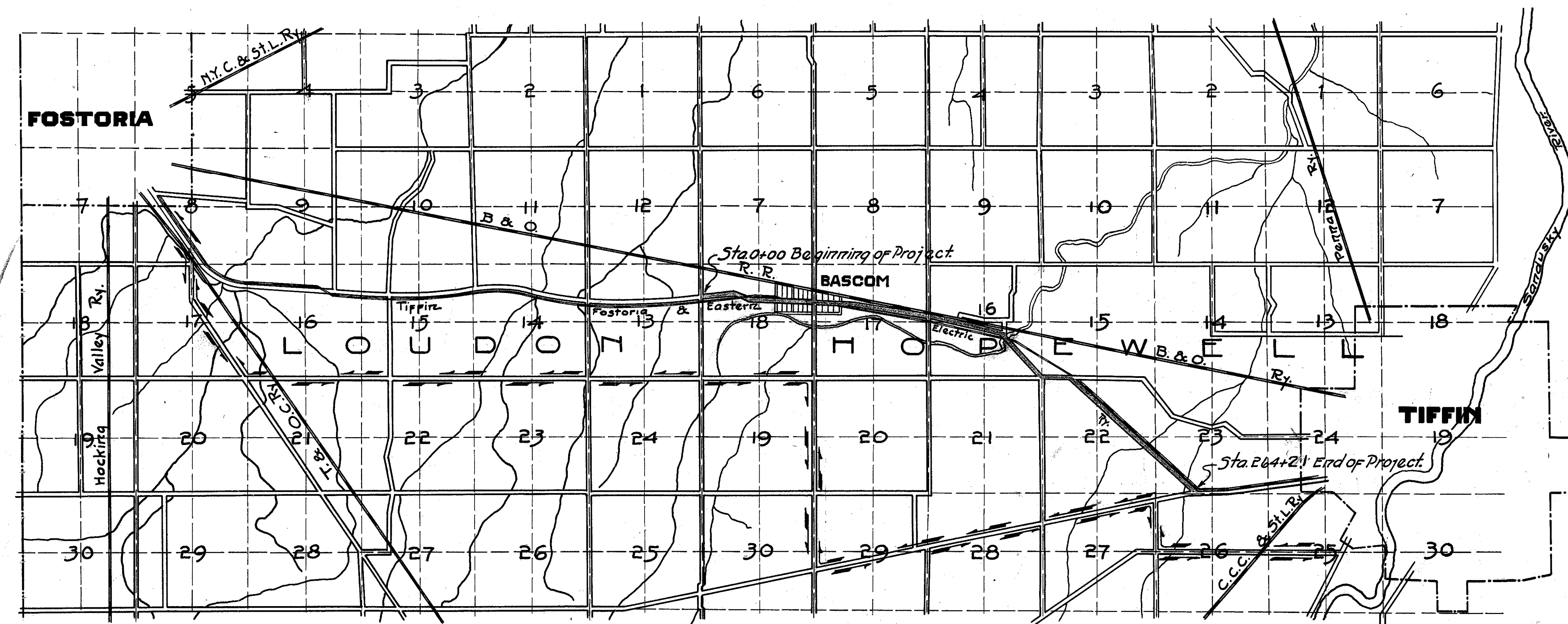
SEC. C. TIFFIN-FOSTORIA ROAD

I.C.H. NO. 270. PET. NO. 4276.

SENECA COUNTY

HOPEWELL TWP.

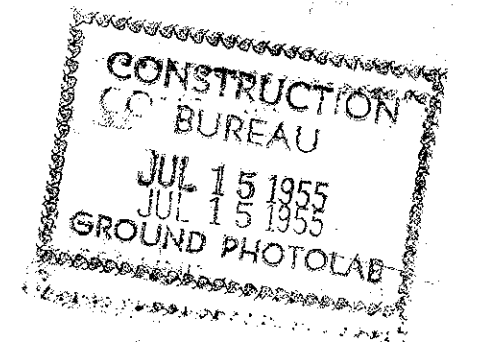
1921.



Note:-
The Standard Specifications of the State Highway Department of Ohio in force at date of contract shall govern this improvement.

Index to Streets -

Street No. 1	Title Page
" 2	Typical Cross Section of improvement
" 3 to 11	Plans and Profile of improvement
" 12 to 22	Cross Sections of improvement
Sheet No. 23	Special Det. Plan of Pav. Thru Bascom
" 24 & 25	CULVERT Plans
" 26 & 27	Bridge No. 89 Plan
" 28	" " 127 "
" 29	Sum. of Quan. Culu. & Bridges
" 30	" " " Drains & Dr. Tile.



- Conventional Signs
- State Line _____
 - County Line _____
 - Township Line _____
 - Section Line _____
 - Property Line not fenced _____
 - Center Line _____
 - City or Village Line _____
 - Wire Fence _____
 - Picket Fence _____
 - Telephone or Trolley Poles TTTT
 - Steam or Electric Railroads _____
 - Trees ○○○○○○○○○○○○○○○○○
 - Hedge Fence _____

Scales

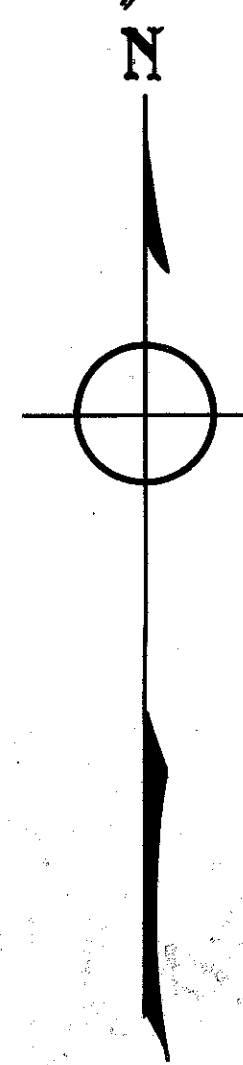
Plan	1 in = 100 ft
Profile (vertical)	1 in = 10 ft
Profile (horizontal)	1 in = 100 ft
Cross Sections	1 in = 5 ft

LOCATION PLAN

SCALE 1 3/4" = 1 MILE

Portion to be improved _____ Detours _____
 Approved *H. S. Baker*
 Date 4-12-1922 County Surveyor

We, the Commissioners of Seneca County hereby approve these plans and certify that the right-of-way is available for the construction of the above improvement.
 Signed *Wm. G. Bullen*
Wm. G. Bullen
W. A. Jordan
 Date 4-12-1922 County Commissioners.



Recommended for Approval
 Date _____ District Engineer Bureau of Public Roads.
 Recommended for Approval
 Date _____ Chief Engineer Bureau of Public Roads.
 Approved
 Date _____ Chief of Bureau
 Approved
 Date April 12, 1922 *John St. Gallier* Division Engineer
 Approved
 Date 4/28/22 *Ed. W. ...* Chief Highway Engineer

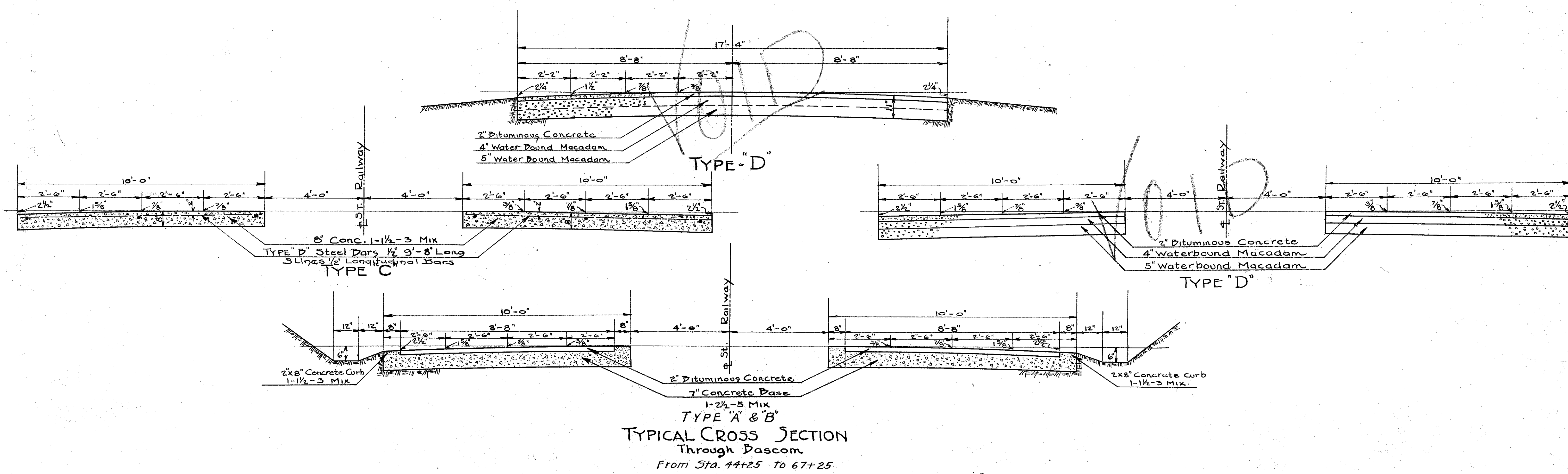
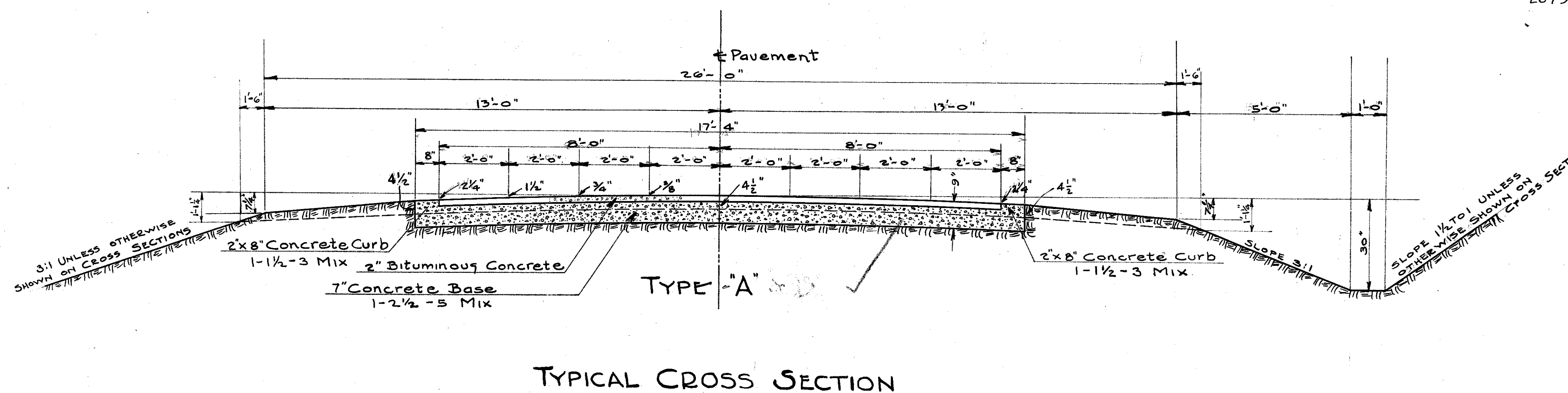
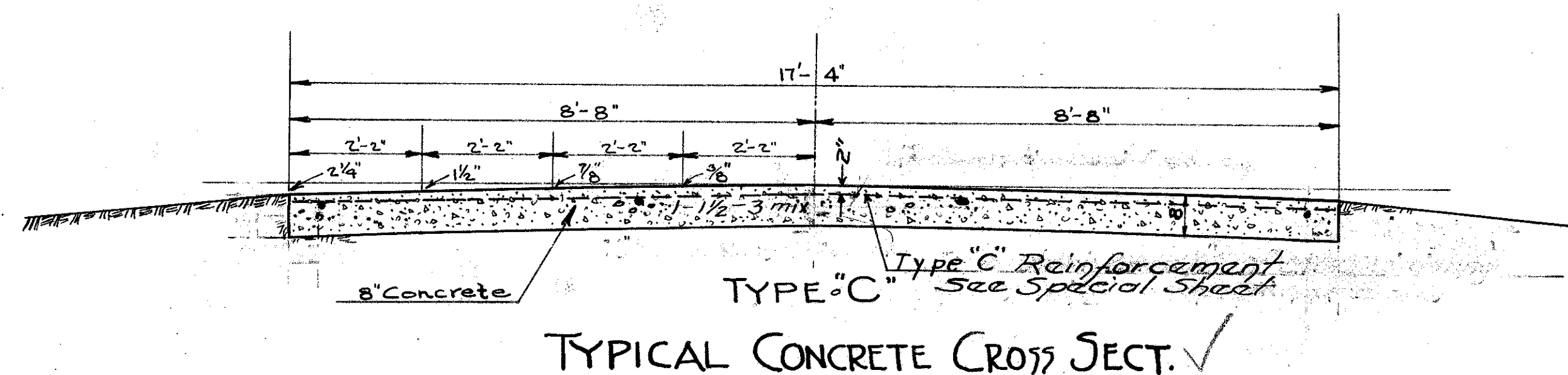
I hereby approve these plans and declare that the making of this improvement will require the closing to traffic of the highway and detours will be indicated by signs as shown on the plans.
 Signed *Lem C. Henrich*
 Date 4/28/22 State Highway Commissioner

FED. RD. DIST. No.	STATE	FED. AID PROJ. No.	FISCAL YEAR
10	OHIO		

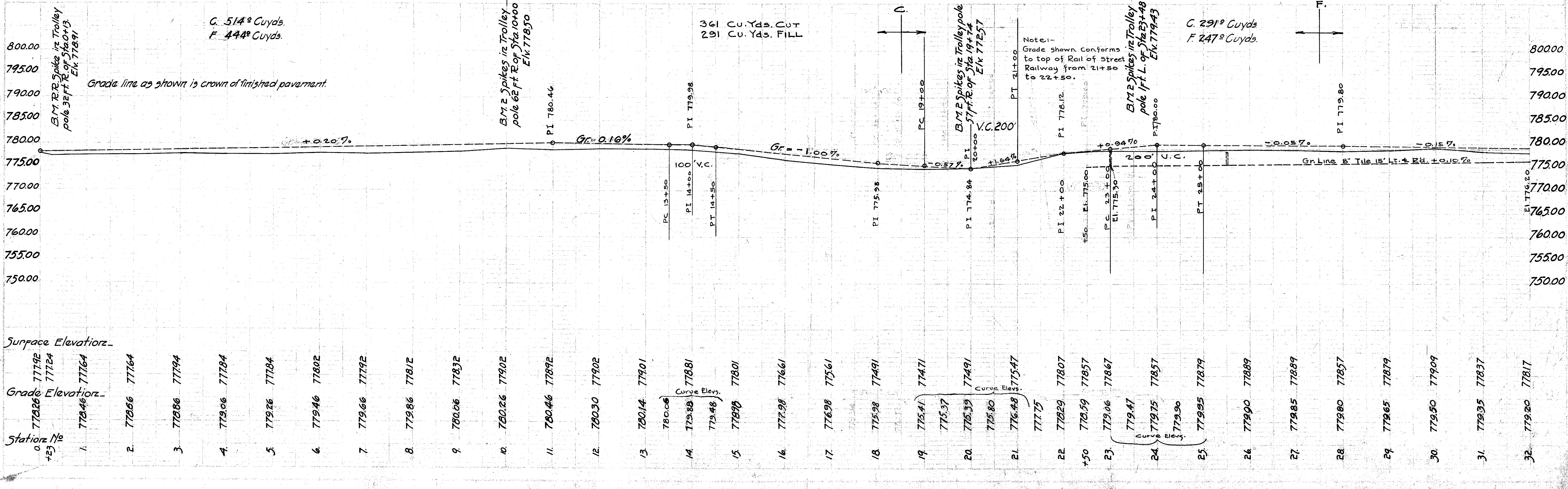
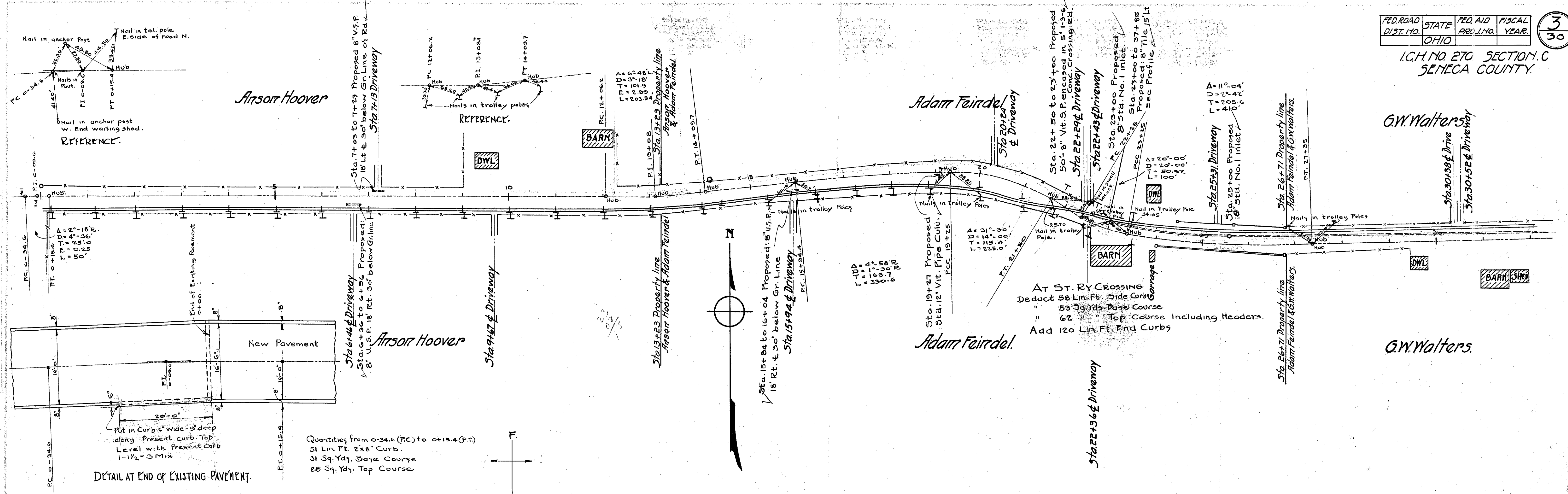
2
30

I.C.H. NO. 270 SEC. "C"
SENECA COUNTY

NOTE:-
Quantities of Excavation were figured for Type "A" & "B"
(2" Bituminous Concrete on 7" Concrete Base)
Excav. for type C will be 385 Cu Yds Less than Type "A" & "B"
"D" . . . 760 " Greater . . .
As follows:- 15000 Lin Feet in Cut
For Type "C" 0.6922 Sq Ft Less Cut per lin foot
10398 Cu Ft = 385 Cu Yds
For Type "D" 1.3844 Sq Ft Extra Cut per lin foot
20756 Cu Feet = 760 Cu Yds



I.C.H. NO. 270 SECTION C
SENECA COUNTY.

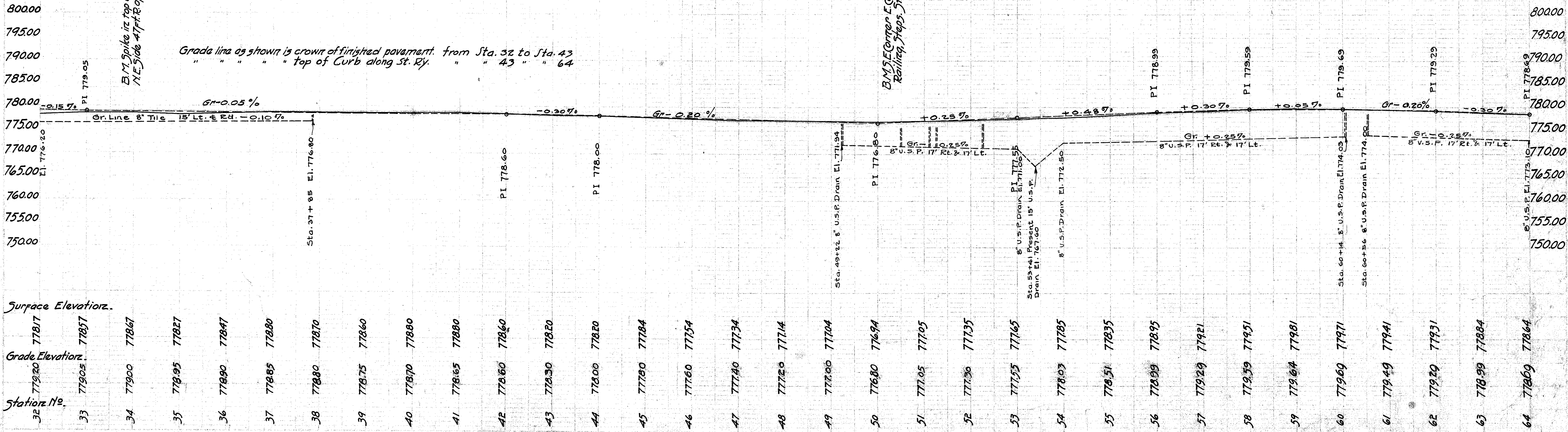


Quantities from 0+34.6 (P.C.) to 0+15.4 (P.T.)
 51 Lin. Ft. 2'x8" Curb
 31 Sq. Yds. Base Course
 28 Sq. Yds. Top Course

DETAIL AT END OF EXISTING PAVEMENT.

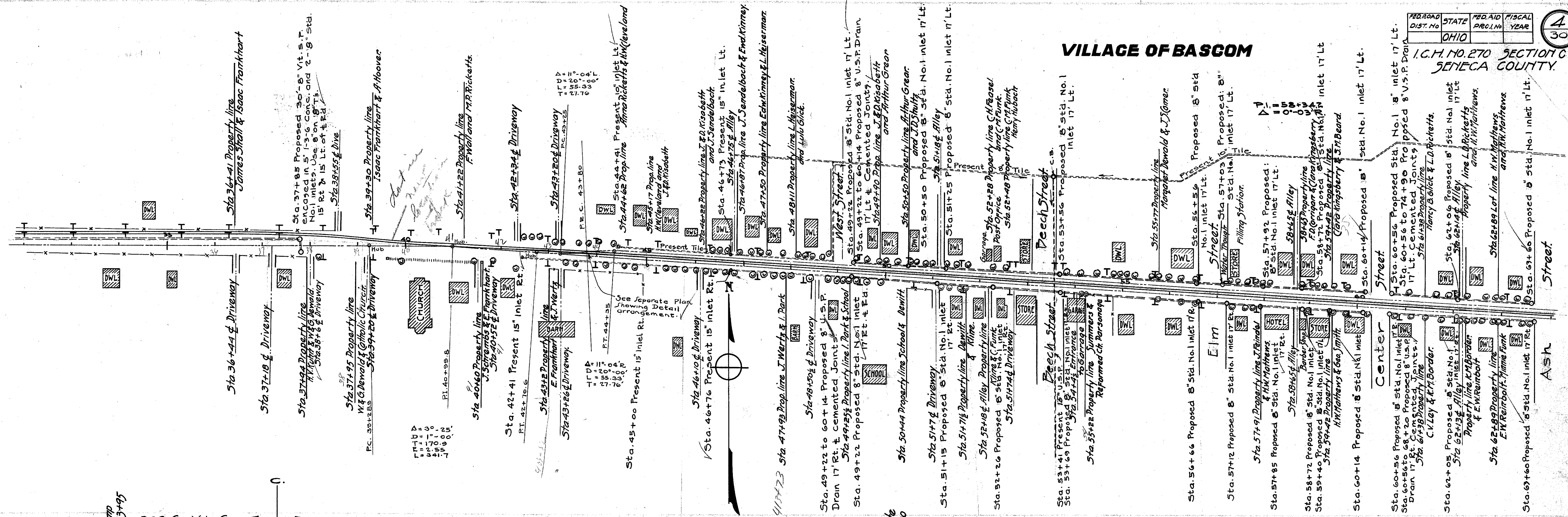
At ST. RY CROSSING
 Deduct 58 Lin. Ft. Side Curb
 " 53 Sq. Yds. Base Course
 " 62 " Top Course Including Headers.
 Add 120 Lin. Ft. End Curbs

Note: -
 Grade shown conforms
 to top of Rail of Street
 Railway from 21+50
 to 22+50.



Station No.	Grade Elevation	Surface Elevation
32	779.20	778.17
33	779.05	778.17
34	779.00	778.61
35	778.95	778.27
36	778.90	778.47
37	778.85	778.80
38	778.80	778.70
39	778.75	778.60
40	778.70	778.80
41	778.65	778.80
42	778.60	778.60
43	778.50	778.20
44	778.00	778.20
45	777.80	777.84
46	777.60	777.54
47	777.40	777.34
48	777.20	777.14
49	777.00	777.04
50	776.80	776.94
51	777.05	777.05
52	777.30	777.35
53	777.55	777.65
54	778.03	777.85
55	778.51	778.35
56	778.89	778.95
57	779.29	779.21
58	779.59	779.51
59	779.64	779.81
60	779.69	779.71
61	779.49	779.41
62	779.20	779.31
63	778.99	778.84
64	778.69	778.64

VILLAGE OF BASCOM



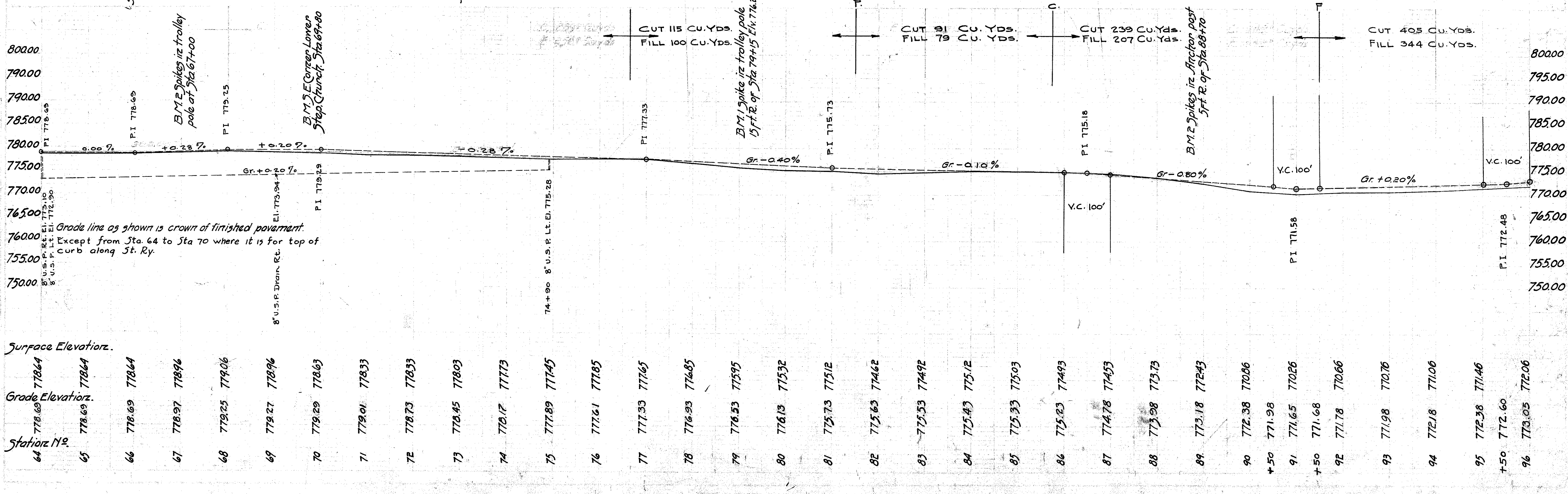
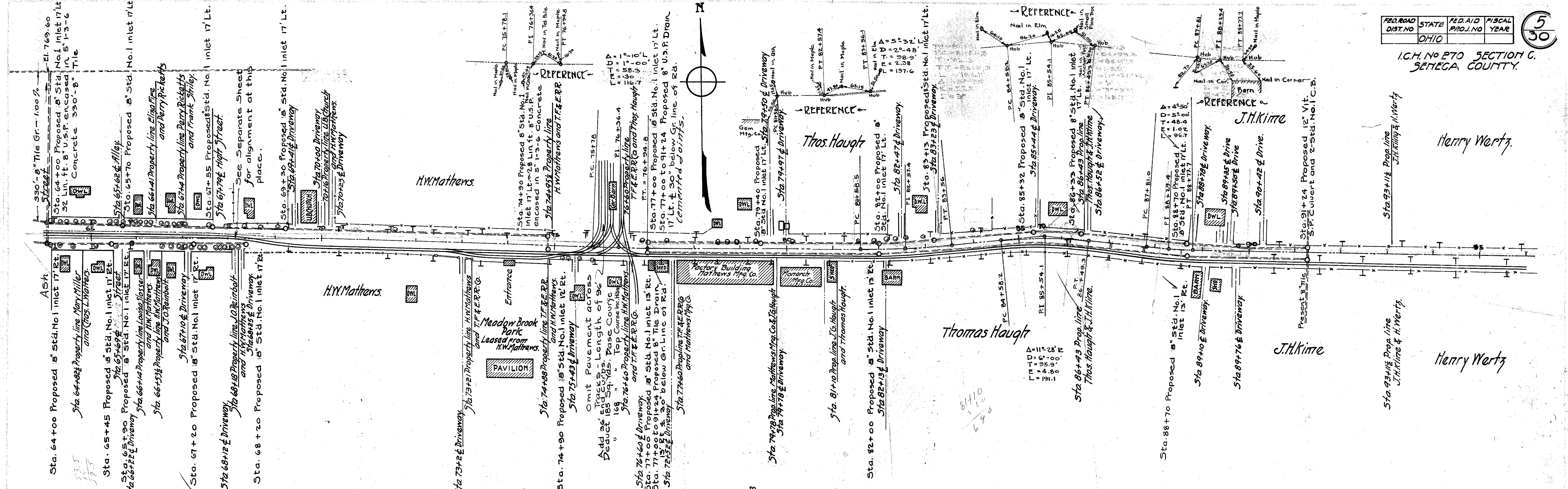
CUT = 1827 Cu. Yds.
FILL = 107 Cu. Yds.

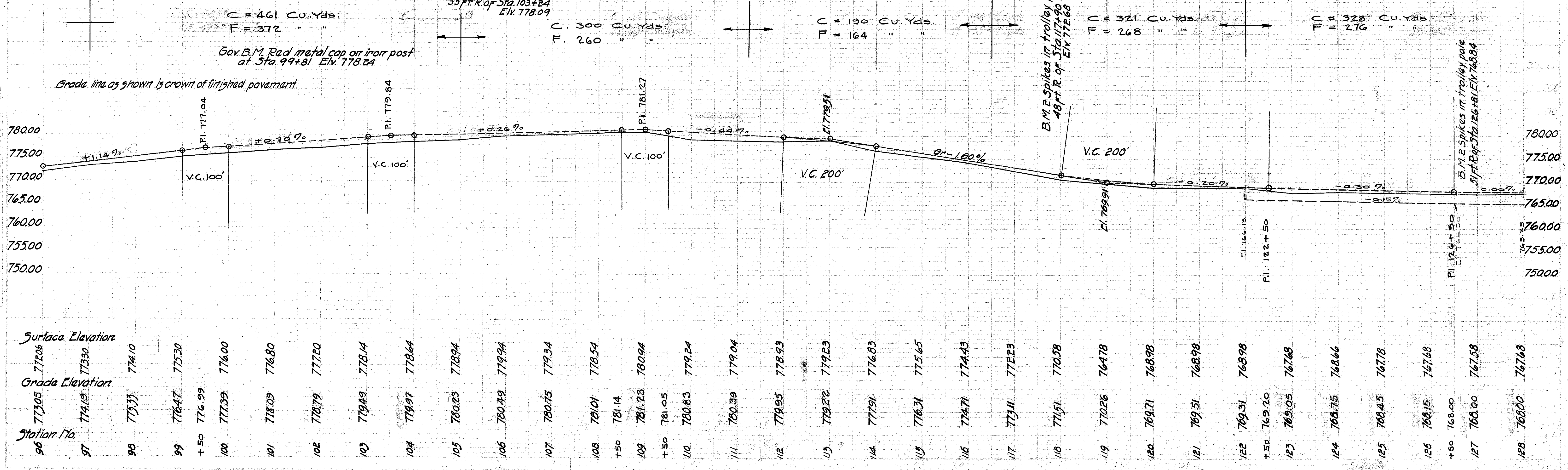
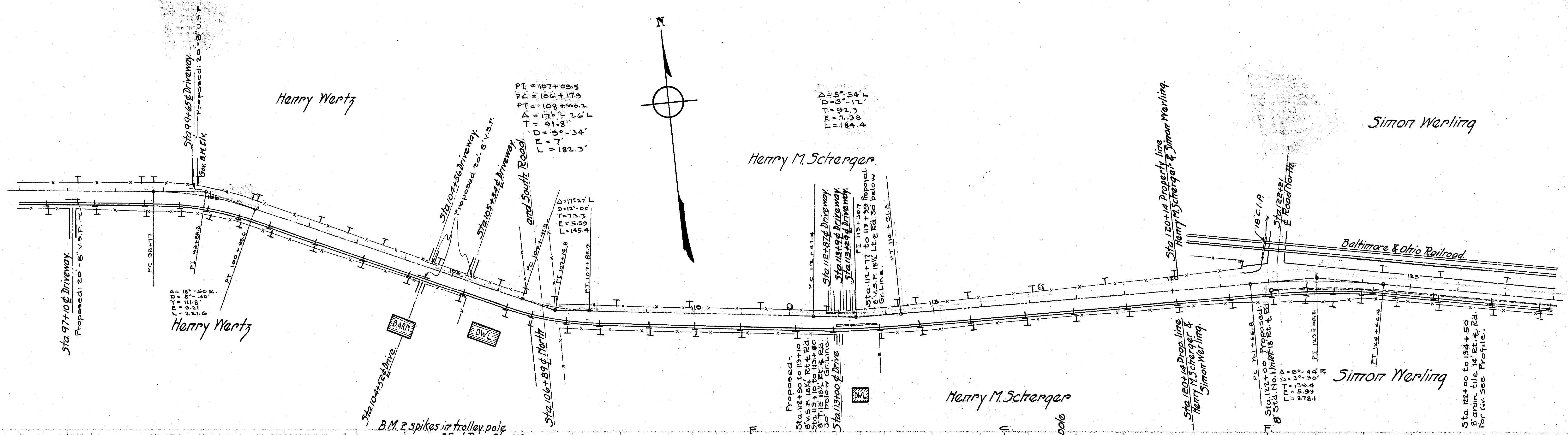
B.M. Spike in top of Stump
N.E. Side at Pt. R of Sta. 33+95

209 Cu. Yds CUT
161 " " " FILL

Grade line as shown is crown of finished pavement from Sta. 32 to Sta. 43
" " " " " top of Curb along St. Ry. " " 43 " " 64

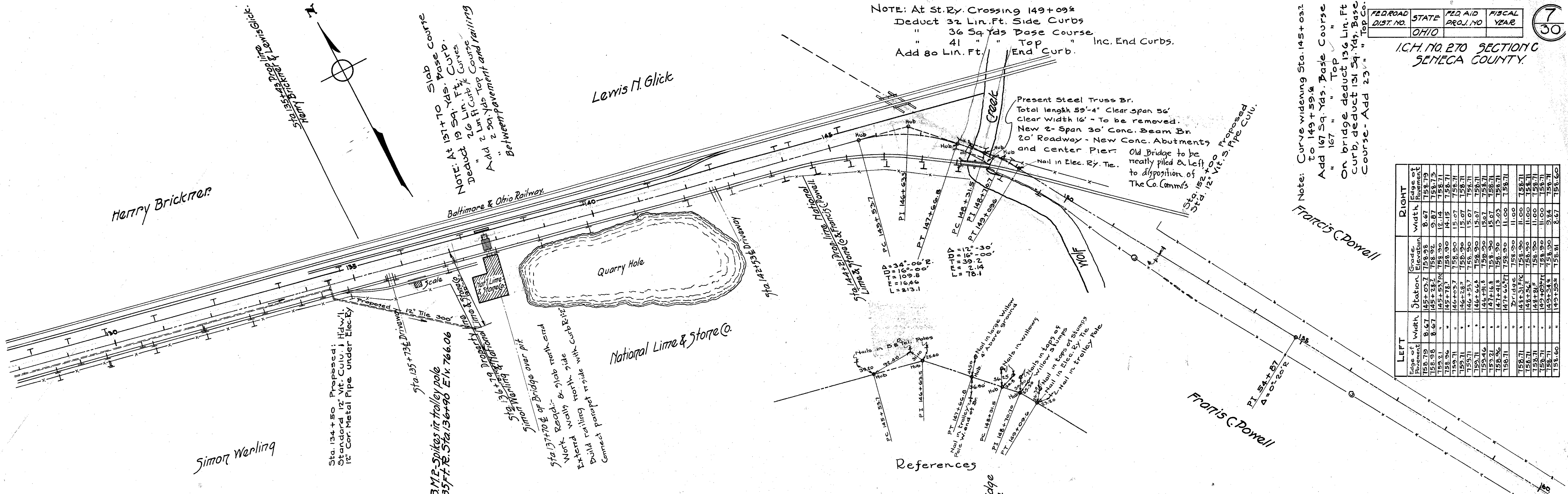
B.M. Center Concrete
Railroad Steps Sta. 30+20





NOTE: At St. Ry. Crossing 149+09.8
Deduct 32 Lin. Ft. Side Curbs
" 36 Sq. Yds. Base Course
" 41 " " Top " Inc. End Curbs.
Add 80 Lin. Ft. " End Curb.

Note: Curve widening Sta. 145+00.1
to 149+59.9
Add 167 Sq. Yds. Base Course
" 167 " " Top " "
On bridge deduct 136 Lin. Ft
Curb, deduct 131 Sq. Yds. Base
Course. Add 23 " " Top "

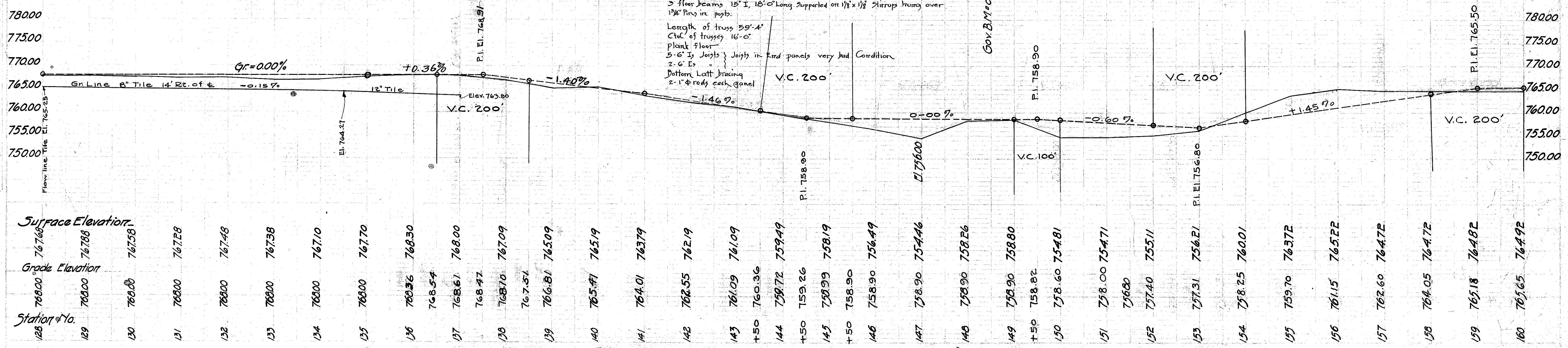


CUT = 254 CU. Yds.
FILL = 213 CU. Yds.

CUT = 710 CU. Yds.
FILL = 590 CU. Yds.

CUT = 2890 CU. Yds.
FILL = 2392 CU. Yds.

Grade as shown is crown of finished pavement.

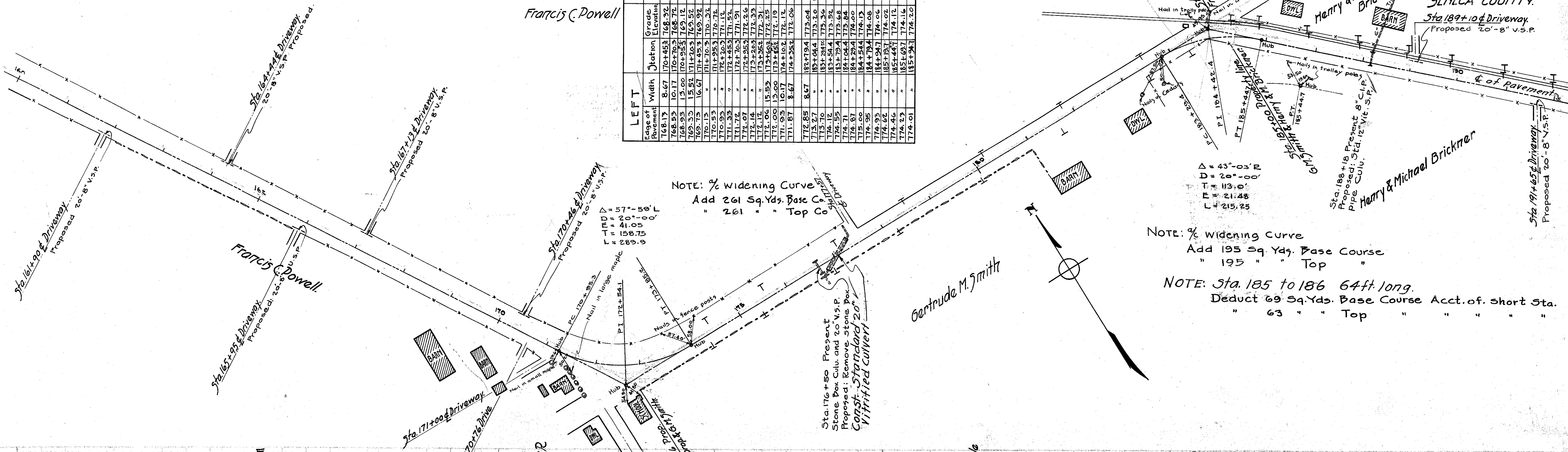


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR
	OHIO		

I.C.H. 10270 SECTION C. SENECA COUNTY.

Sta. 189+10 of Driveway Proposed 20'-8" V.S.P.

LEFT	RIGHT
Edge of Pavement	Edge of Pavement
Width	Width
Station	Station
Grade Elevation	Grade Elevation
768.17	768.32
768.33	768.72
768.53	768.72
769.33	769.52
769.13	769.52
770.53	770.32
771.33	771.12
771.33	771.52
772.07	772.26
772.14	772.26
772.12	772.26
772.03	772.19
771.93	772.12
771.87	772.06
772.85	772.04
773.27	773.10
773.10	773.36
774.12	773.92
774.55	773.68
774.81	773.68
775.00	773.94
774.95	774.06
774.62	774.02
774.46	774.12
774.23	774.16
774.01	774.20
	774.01

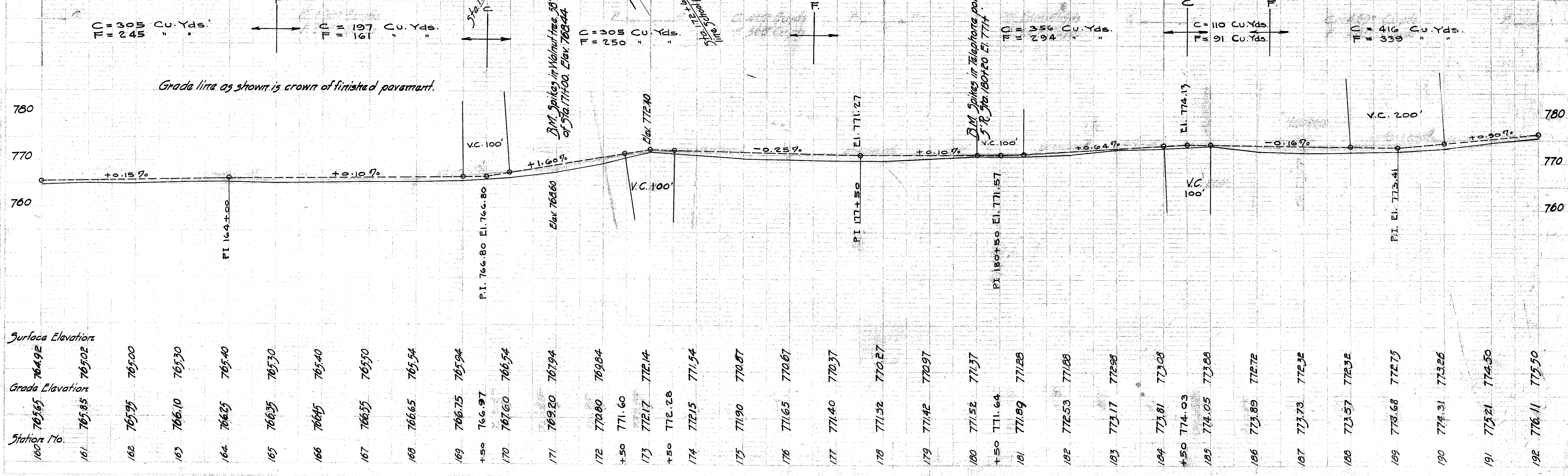


NOTE: % Widening Curve
Add 261 Sq. Yds. Base Course
" 261 " " Top Course

Δ = 43° 03' R
D = 20' 00"
T = 113.0'
E = 21.48'
L = 215.25'

NOTE: % Widening Curve
Add 195 Sq. Yds. Base Course
" 195 " " Top Course

NOTE: Sta. 185 to 186 64ft. long.
Deduct 69 Sq. Yds. Base Course Acct. of short Sta.
" 63 " " Top Course



Station No.	Grade Elevation	Surface Elevation
160	765.65	764.92
161	765.85	765.02
162	765.95	765.00
163	766.10	765.30
164	766.25	765.40
165	766.35	765.50
166	766.45	765.40
167	766.55	765.50
168	766.65	765.94
169	766.75	765.94
+50	766.97	
170	767.60	766.54
171	769.20	767.94
172	770.80	769.84
+50	771.60	
173	772.17	772.14
+50	772.28	
174	772.15	771.54
175	771.90	770.87
176	771.65	770.67
177	771.40	770.37
178	771.32	770.27
179	771.42	770.97
180	771.52	771.37
+50	771.64	
181	771.89	771.28
182	772.53	771.88
183	773.17	772.88
184	773.81	773.08
+50	774.03	
185	774.05	773.88
186	773.89	772.72
187	773.73	772.32
188	773.57	772.32
189	773.68	772.75
190	774.31	773.26
191	775.21	774.50
192	776.11	775.50

Grade line as shown is crown of finished pavement.

B.M. Spikes in Walnut tree 38' R of Sta. 171+00. Elev. 768.44

B.M. Spikes in Telephone pole 5' R Sta. 180+50 El. 771.57

T.O. = 240 Cu. Yds.

T.O. = 197 Cu. Yds.

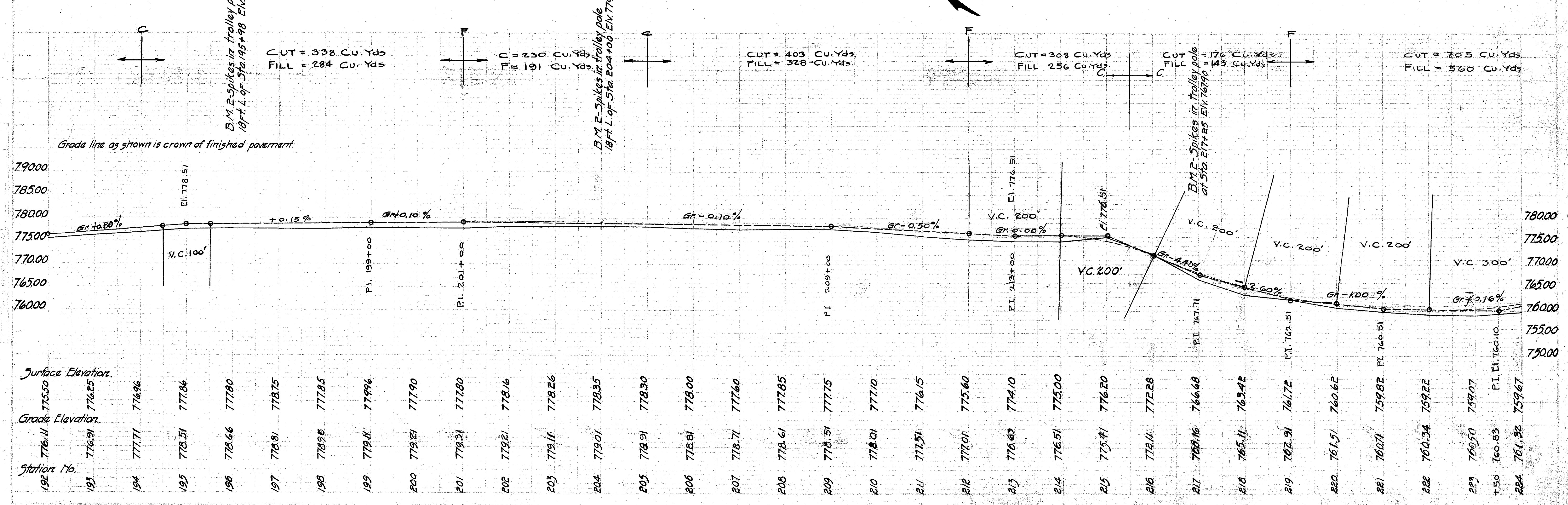
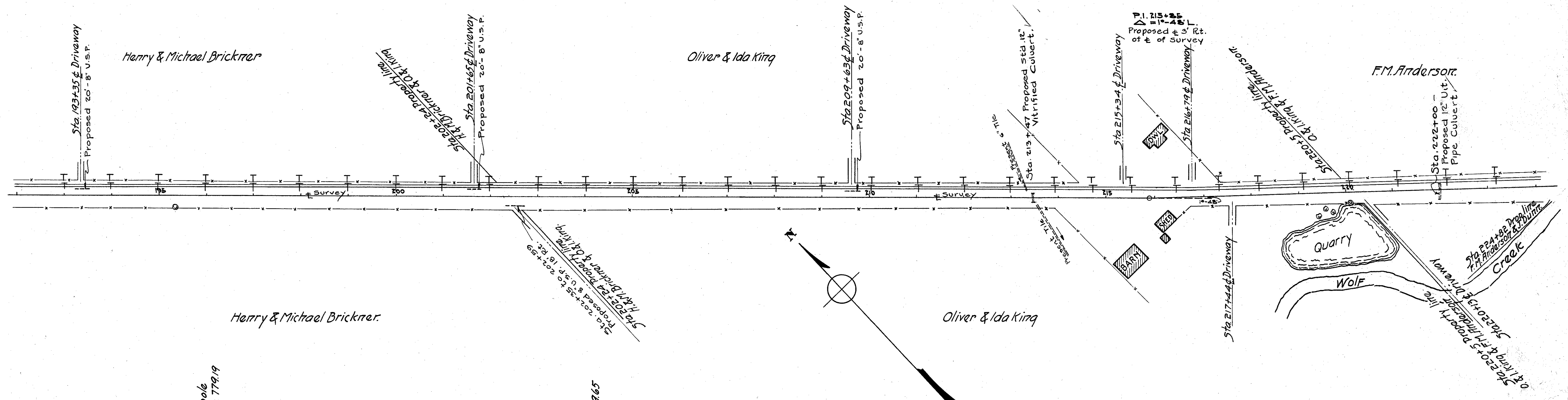
T.O. = 250 Cu. Yds.

T.O. = 294 Cu. Yds.

T.O. = 110 Cu. Yds.

T.O. = 416 Cu. Yds.

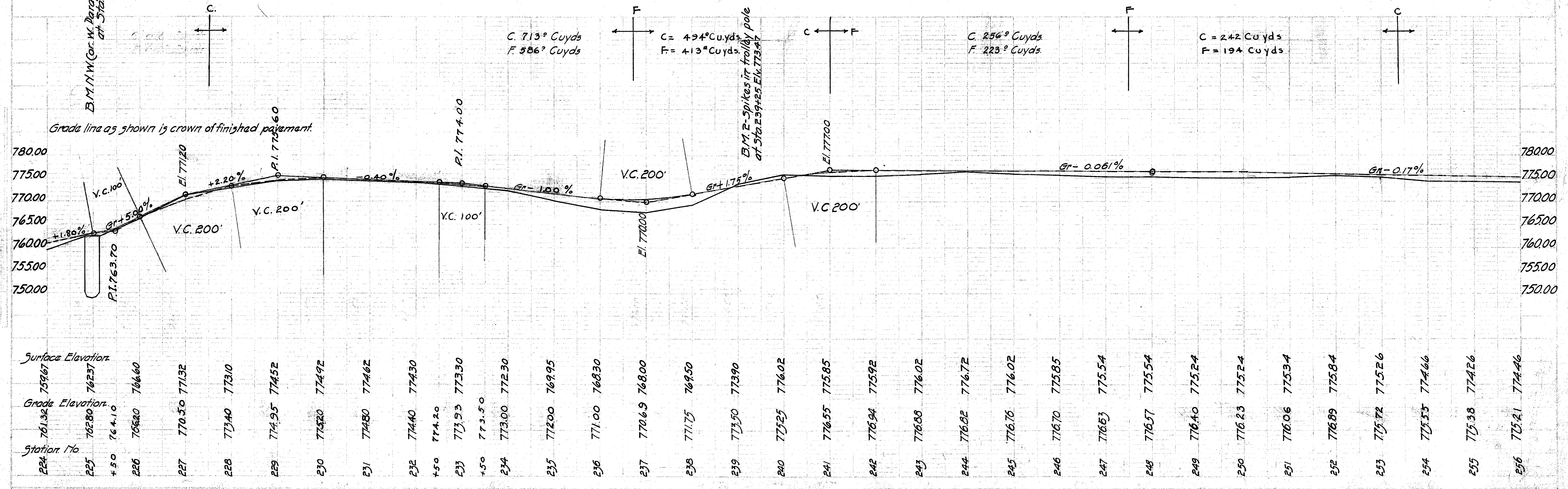
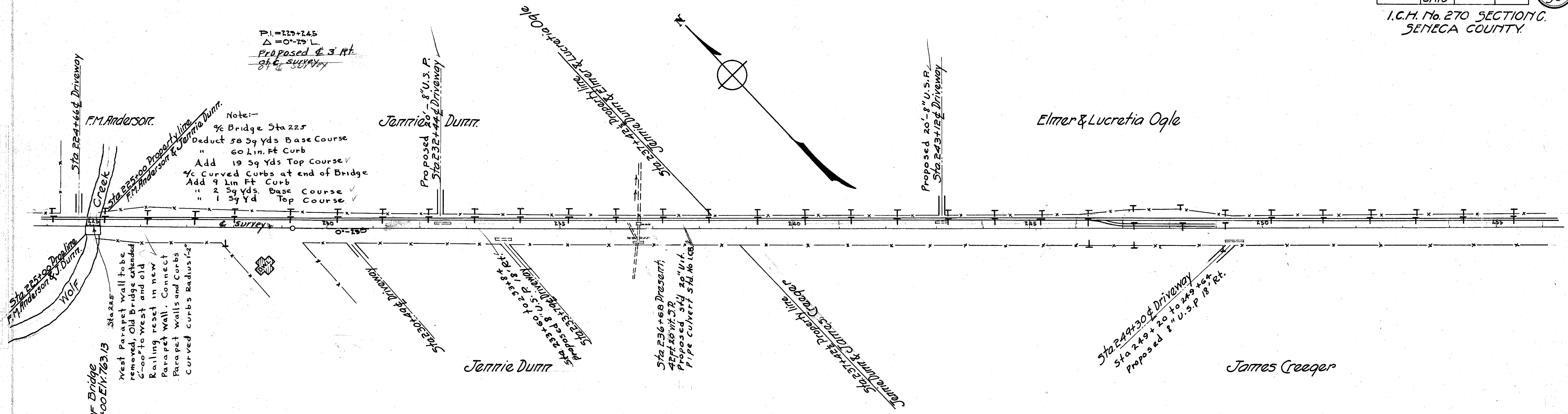
I.C.H. 19270 SECTION C.
GENECA COUNTY.

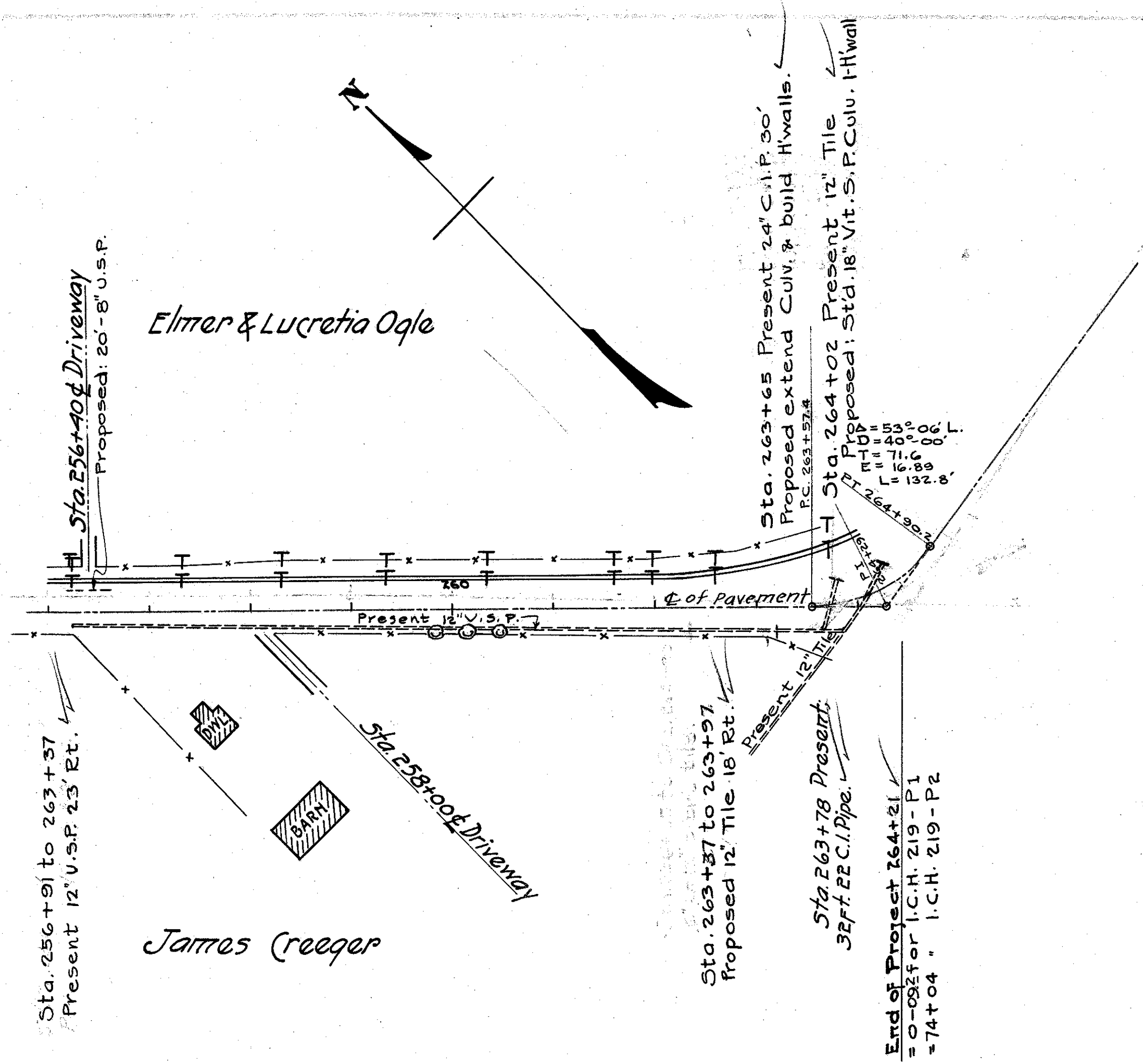


I.C.H. No. 270 SECTION G.
SENECA COUNTY.

P.I. = 229+245
Δ = 0°-29' L
Proposed 3 ft
of survey

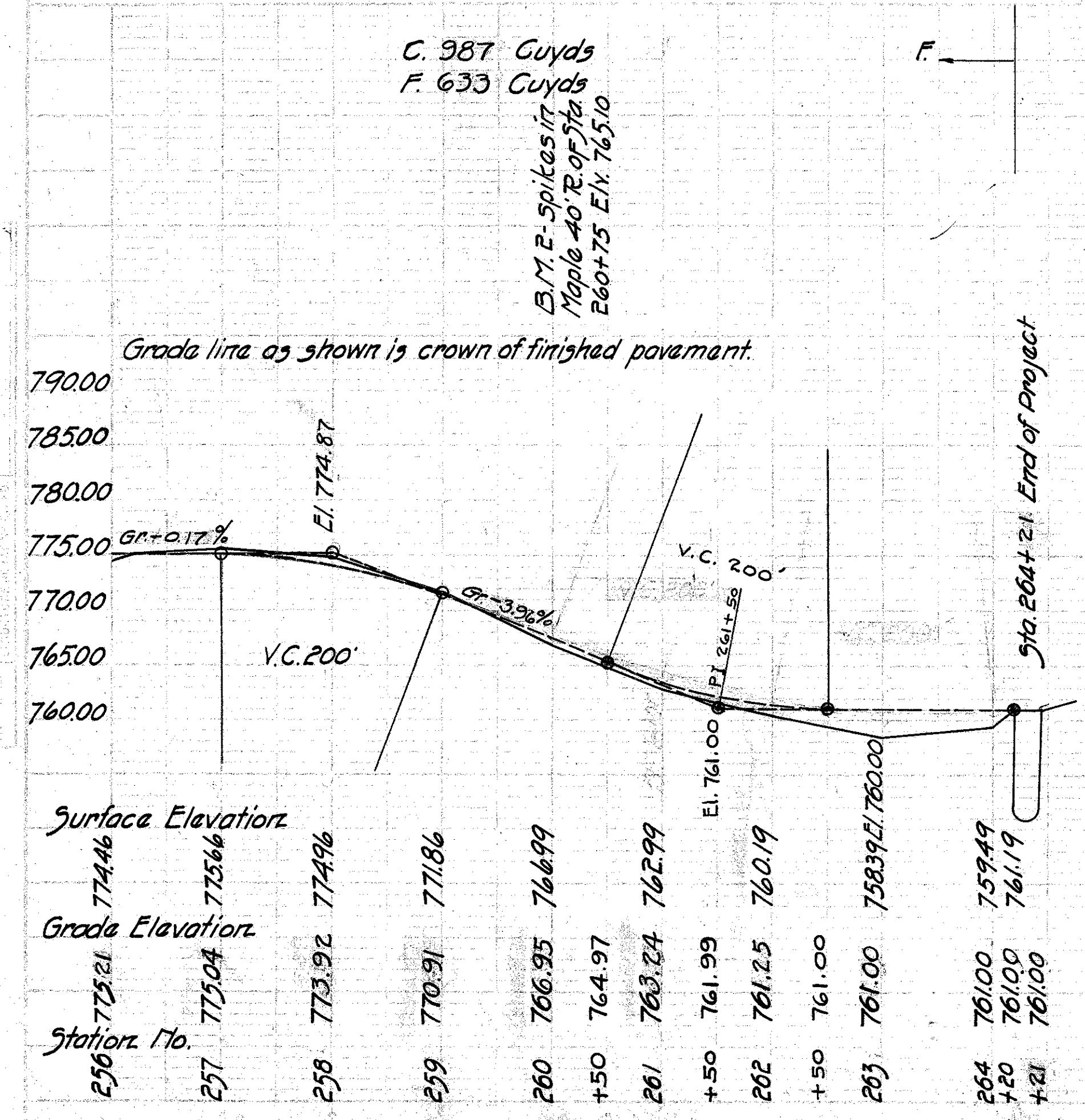
Note:-
¾ Bridge Sta 225
Deduct 58 Sq Yds Base Course
" 60 Lin. Ft Curb
Add 19 Sq Yds Top Course
¾ Curved Curbs at end of Bridge
Add 9 Lin Ft Curb
" 2 Sq Yds. Base Course
" 1 Sq Yd Top Course



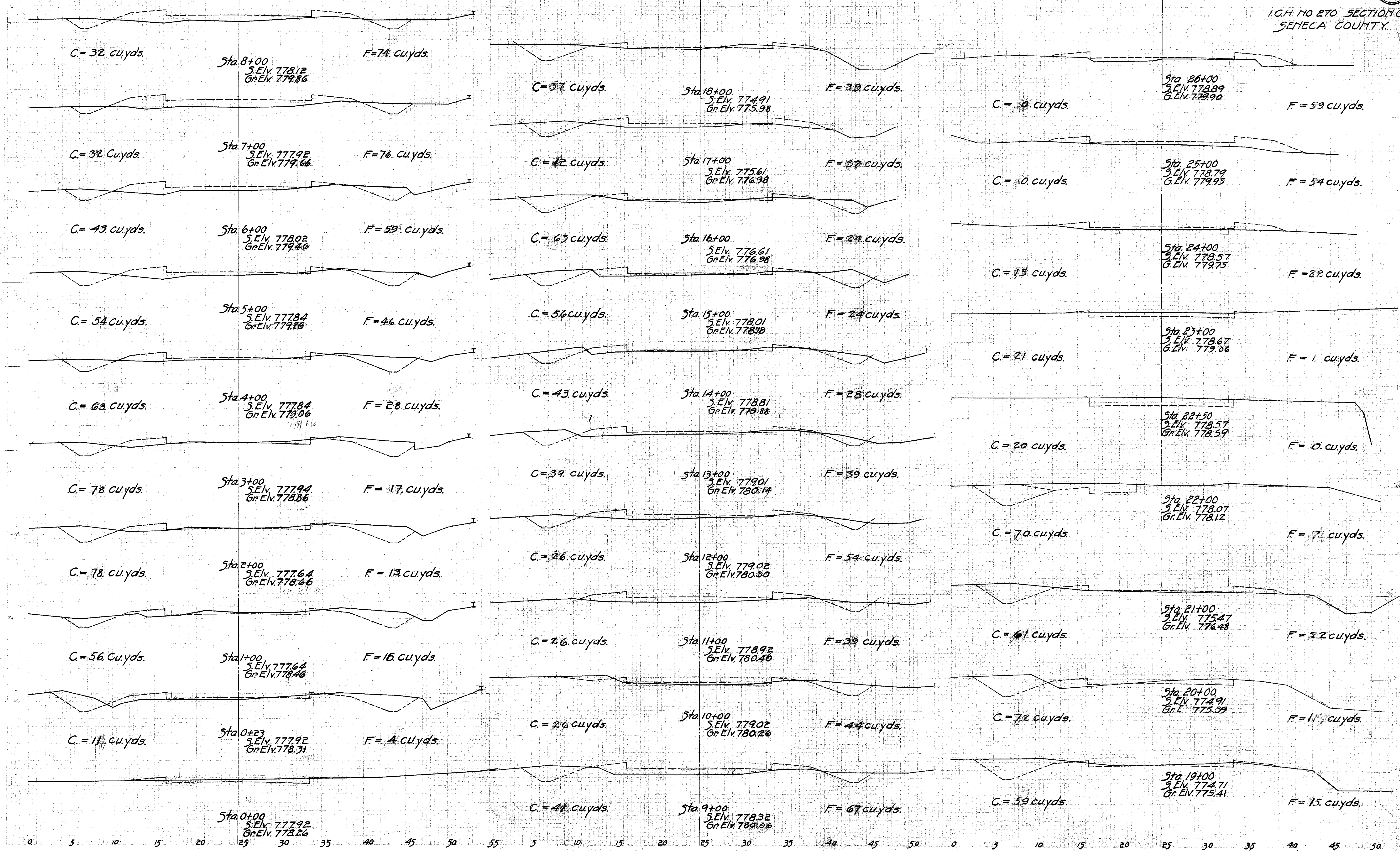


LEFT			RIGHT		
Edge of Pavement	Width	Station	Grade Elevation	Width	Edge of Pavement
760.81	8.67	263+07.4	761.00	8.67	760.81
"	10.17	263+32.4	"	"	760.81
"	13.00	263+57.4	"	"	760.81
"	15.52	263+82.4	"	"	760.81
"	16.67	264+07.4	"	"	760.81
"	16.67	264+21	"	"	760.87

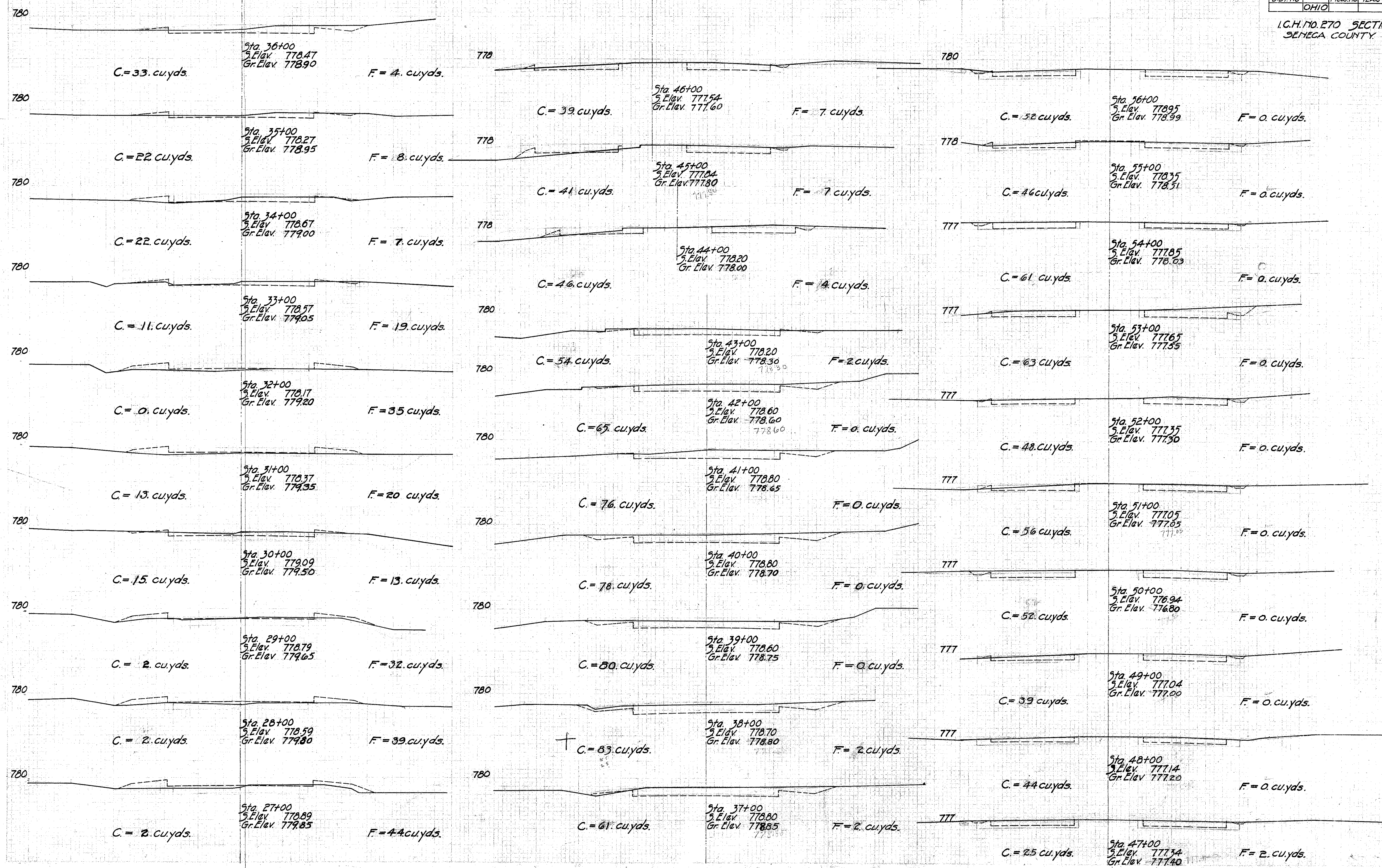
NOTE:
 % Widening Curve 263+07.4 to 264+21
 Add 59 Sq. Yds. Base Course
 " 59 " " Top "



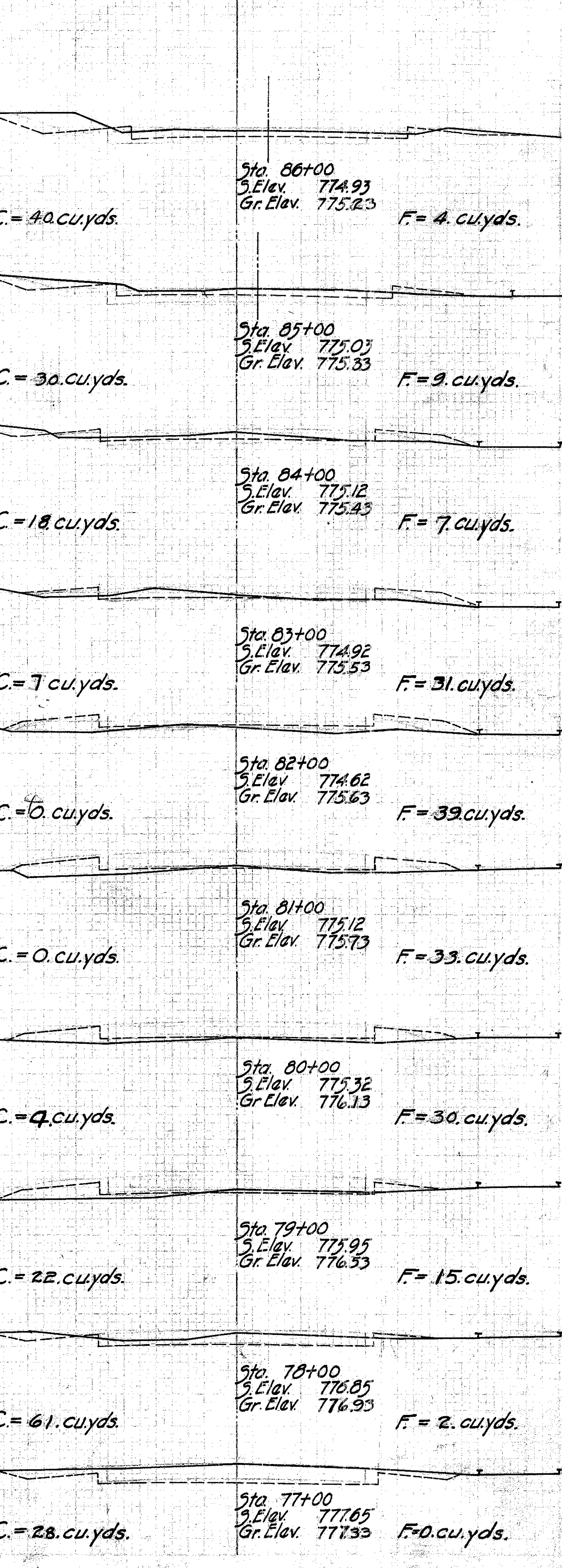
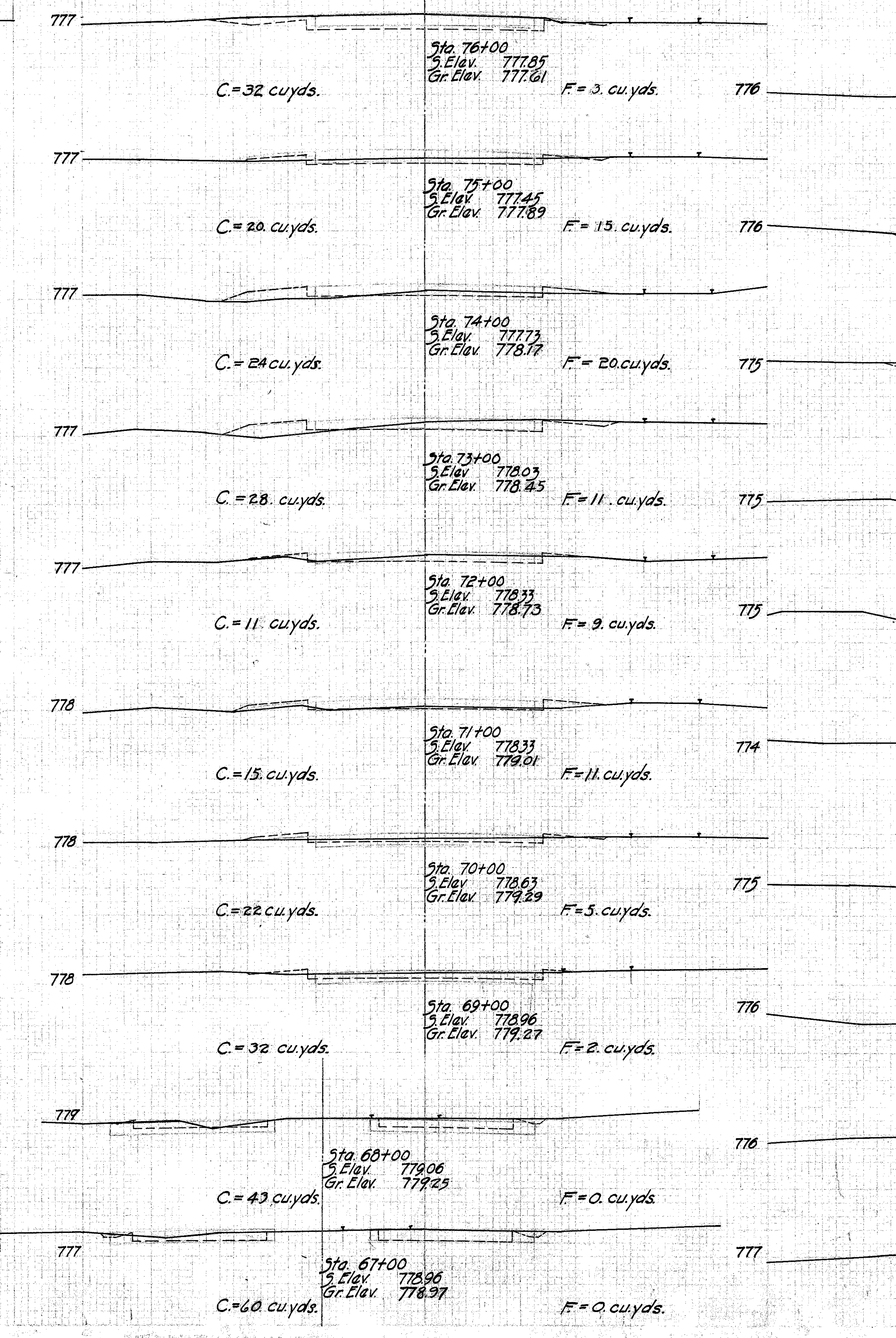
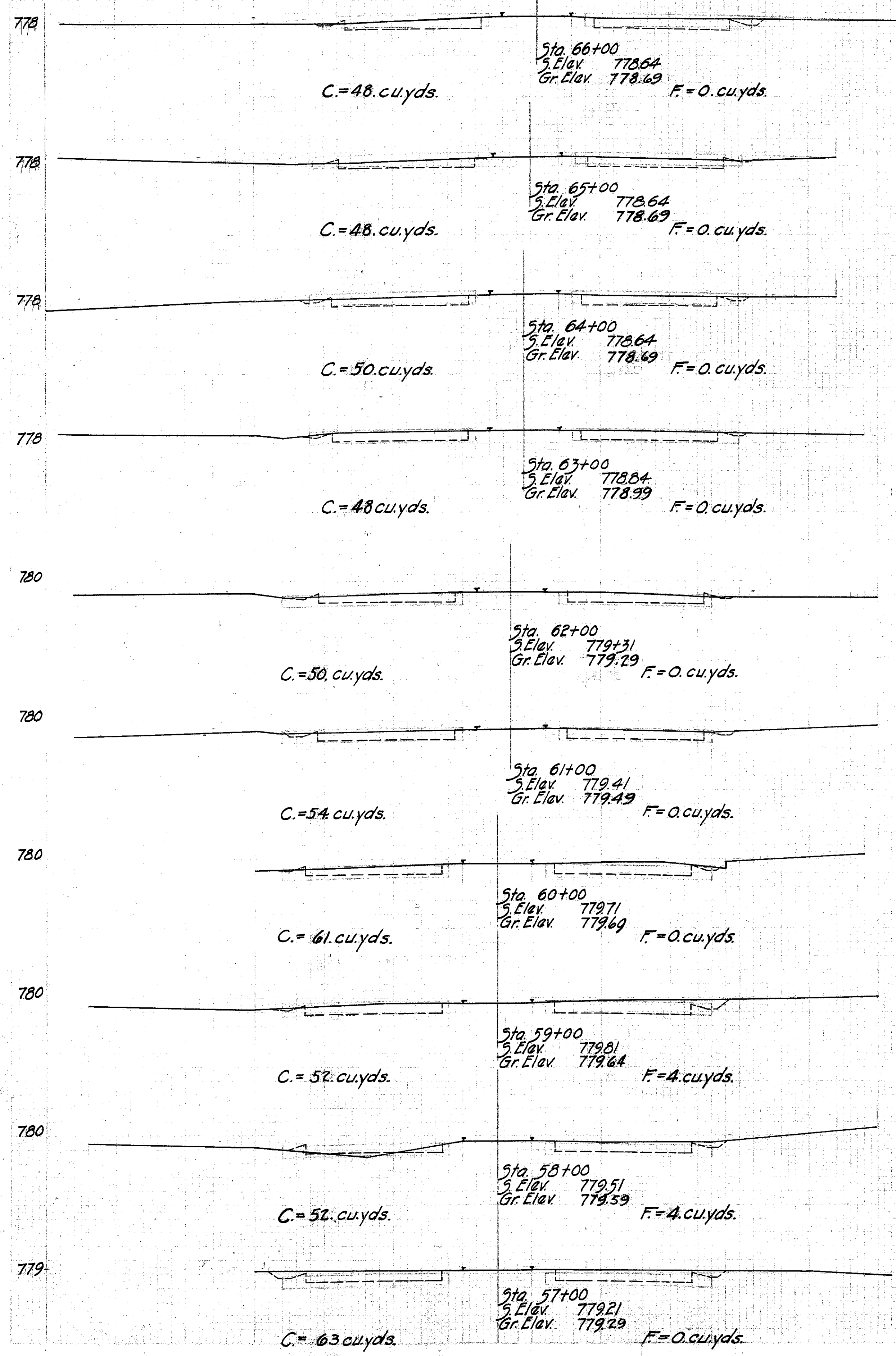
I.C.H. NO 270 SECTION C.
SENECA COUNTY.



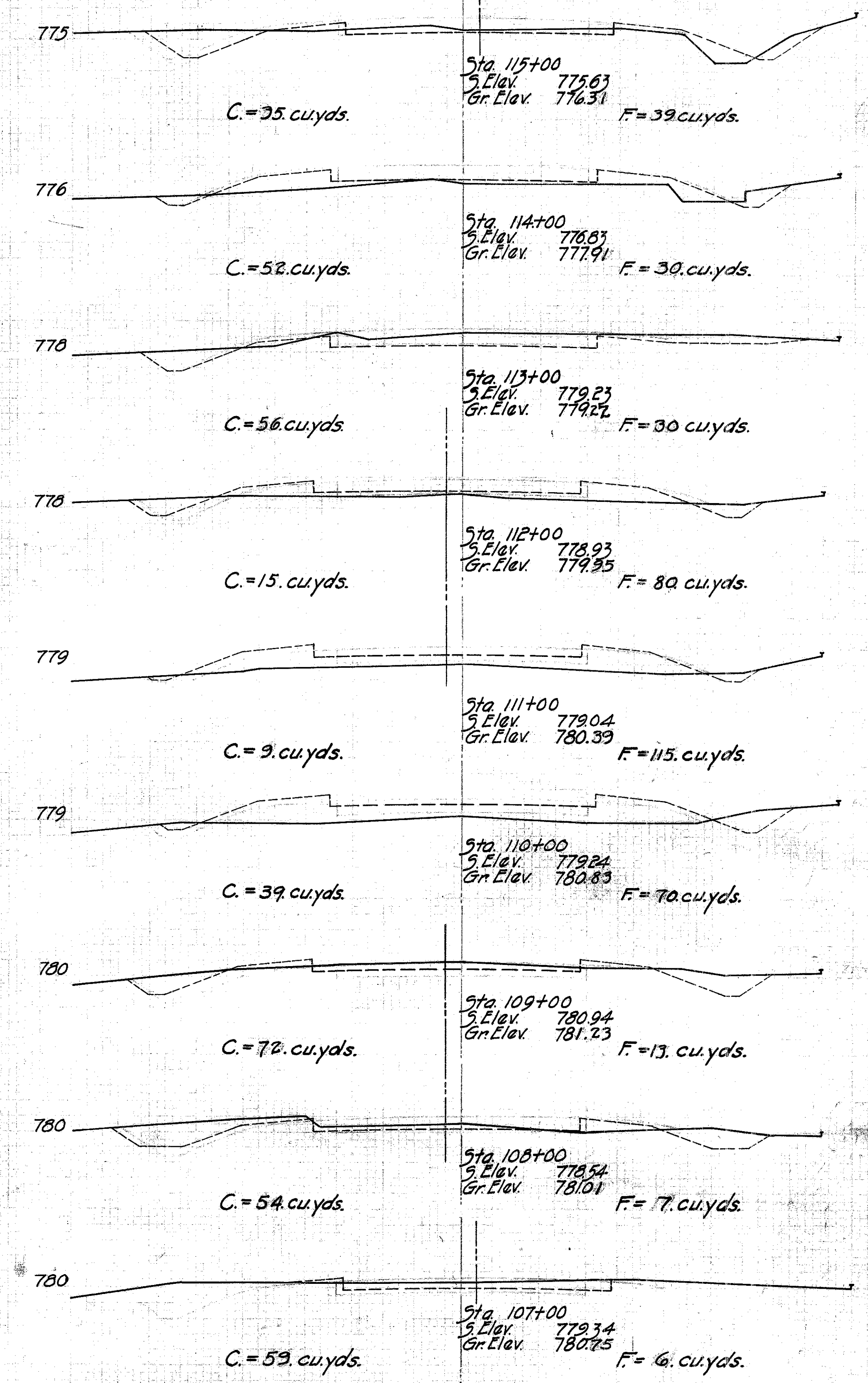
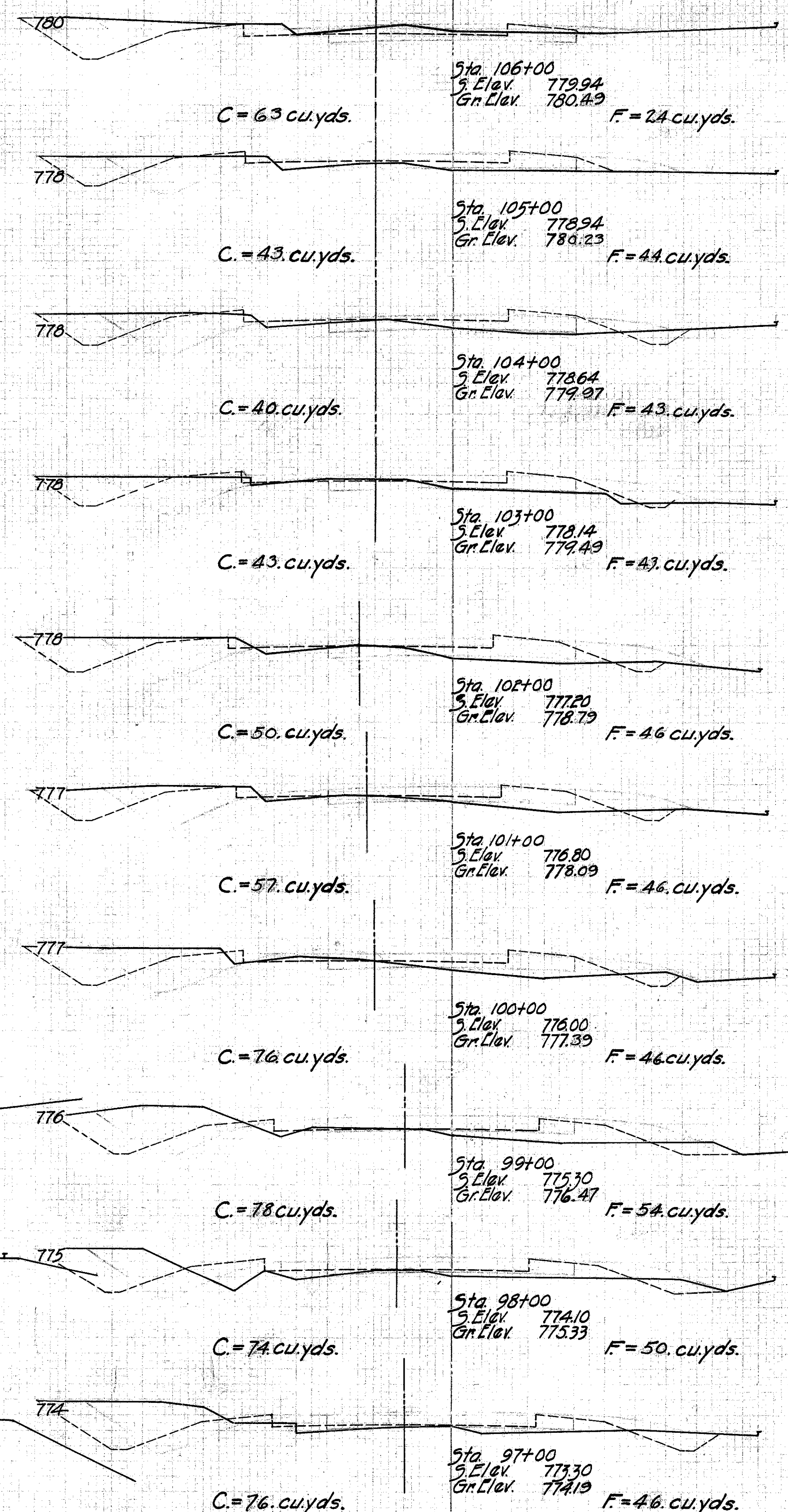
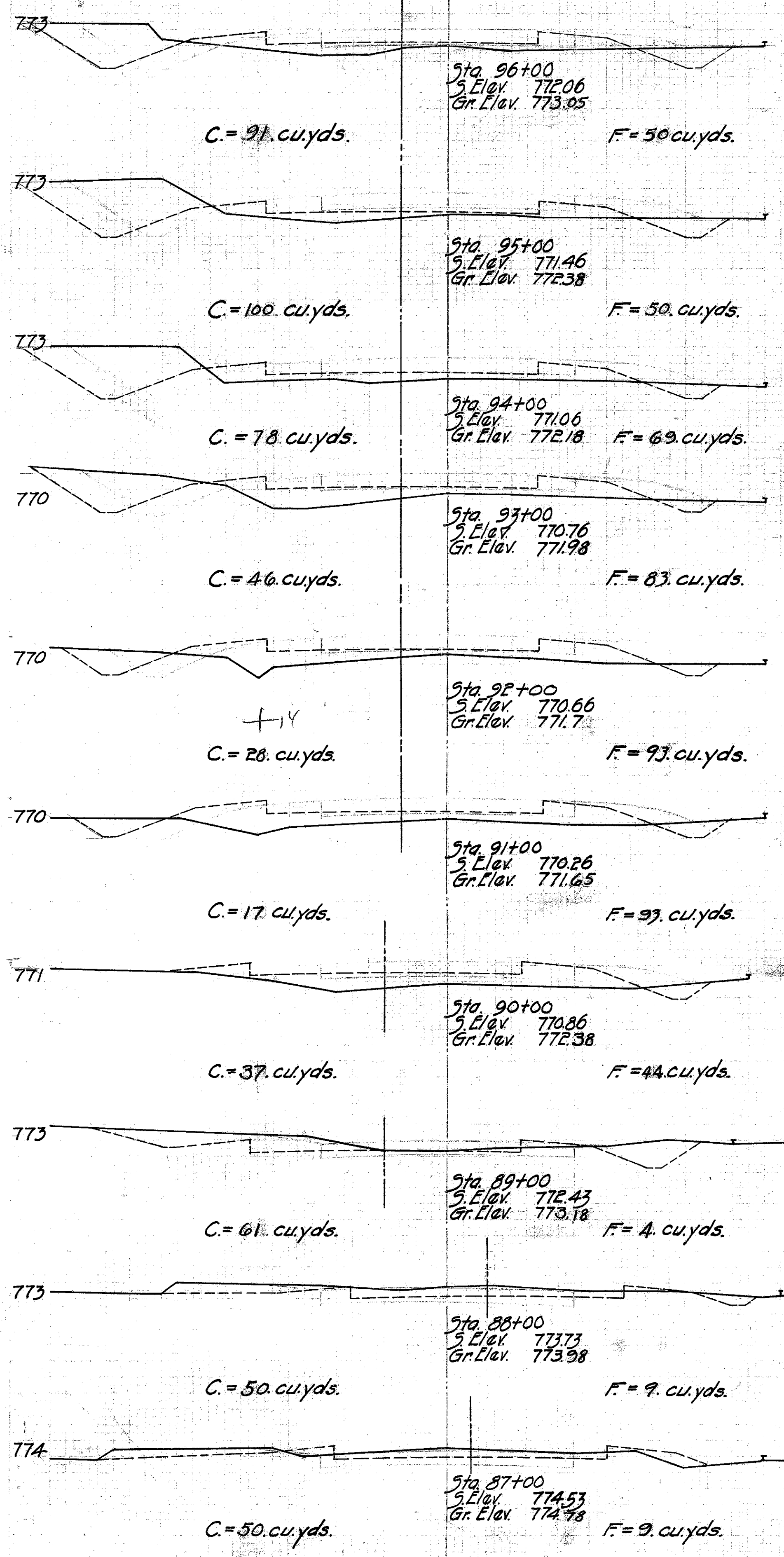
I.C.H. NO. 270 SECTION C.
SENEGA COUNTY



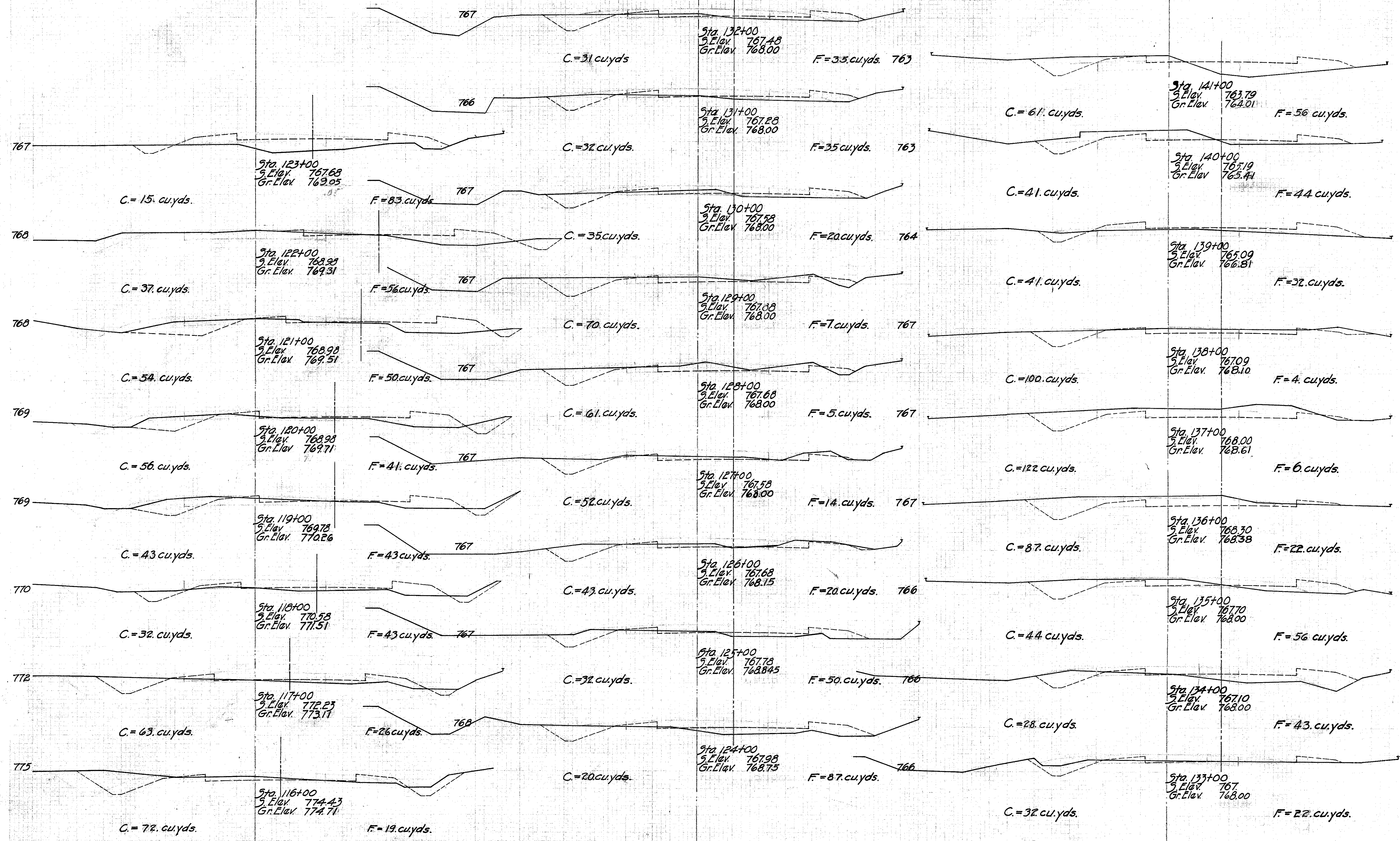
I.C.H. NO. E70 SECTION C.
SENECA COUNTY.



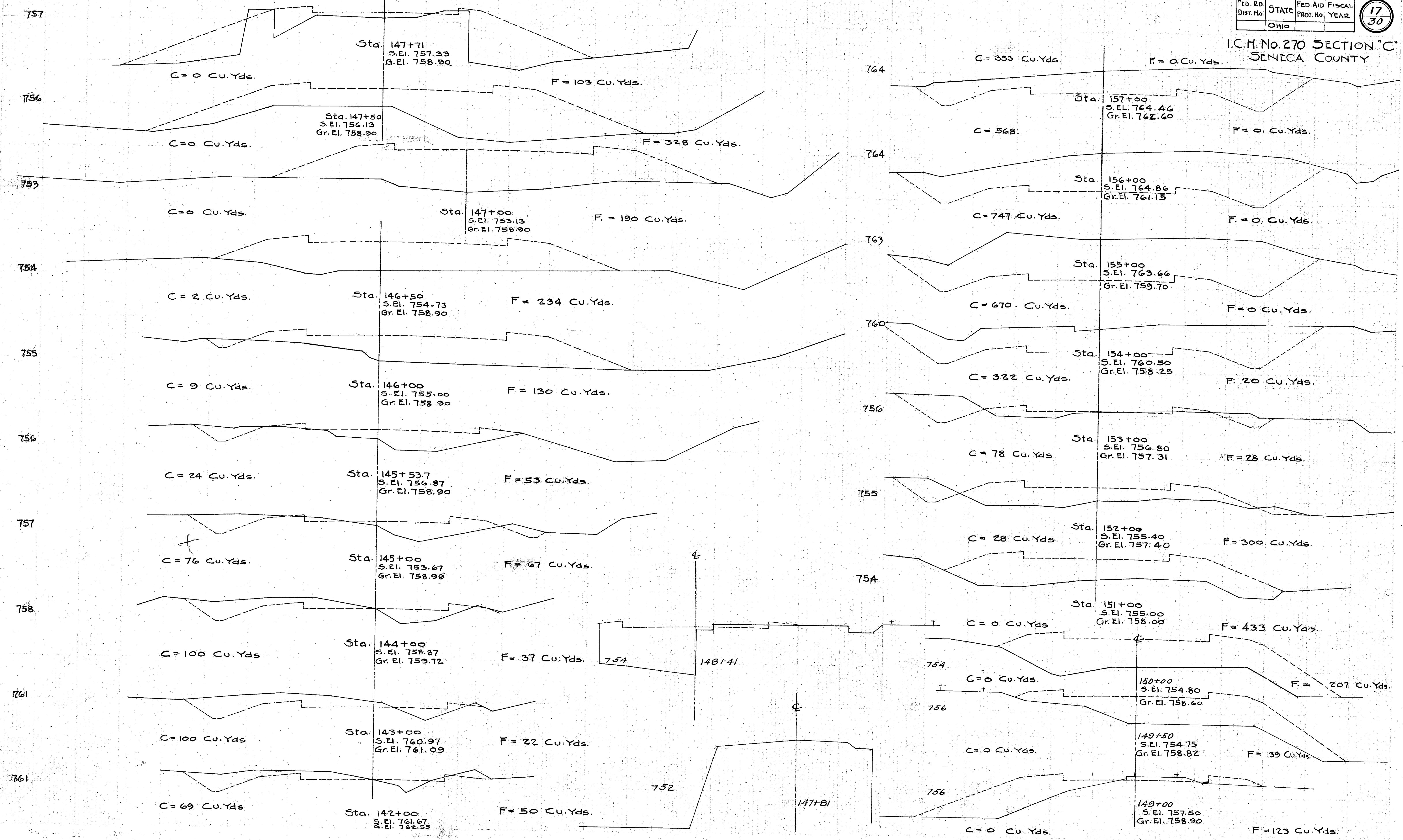
I.C.H. NO. 270 SECTION C.
SENECA COUNTY



I.C.H. NO. 270 SECTION C.
SENECA COUNTY.



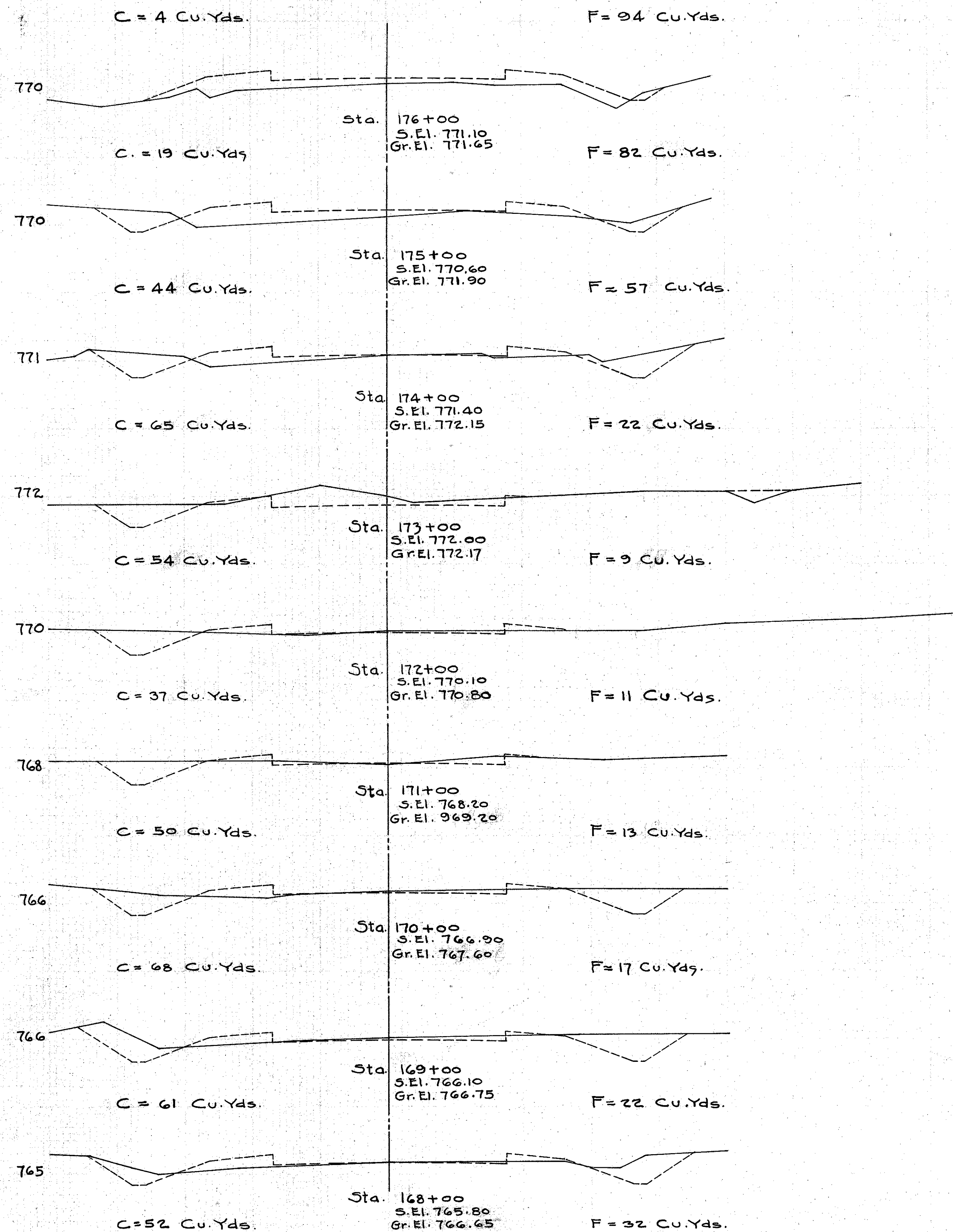
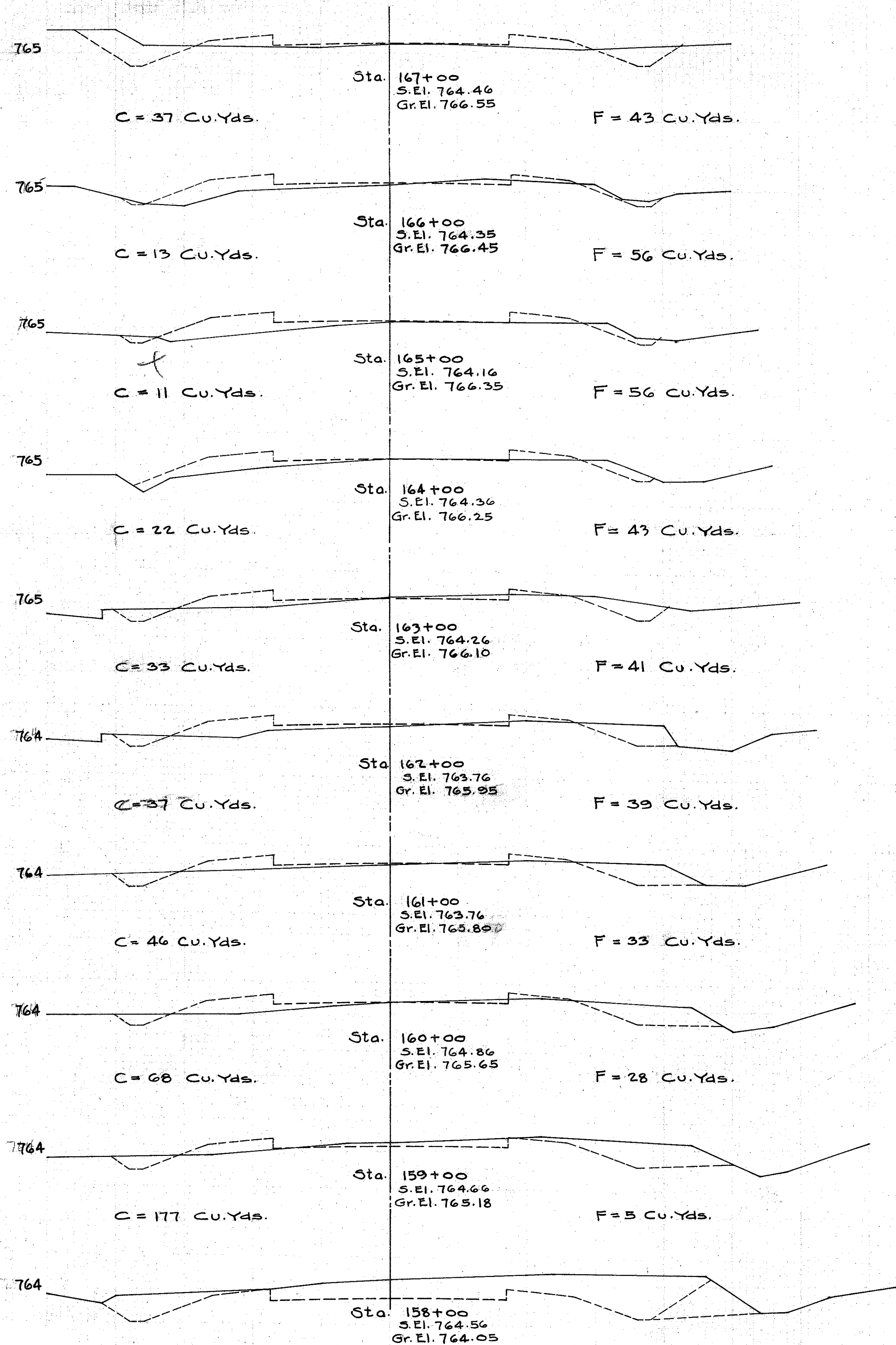
I.C.H. No. 270 SECTION "C"
SENECA COUNTY



FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR
	OHIO		

18
30

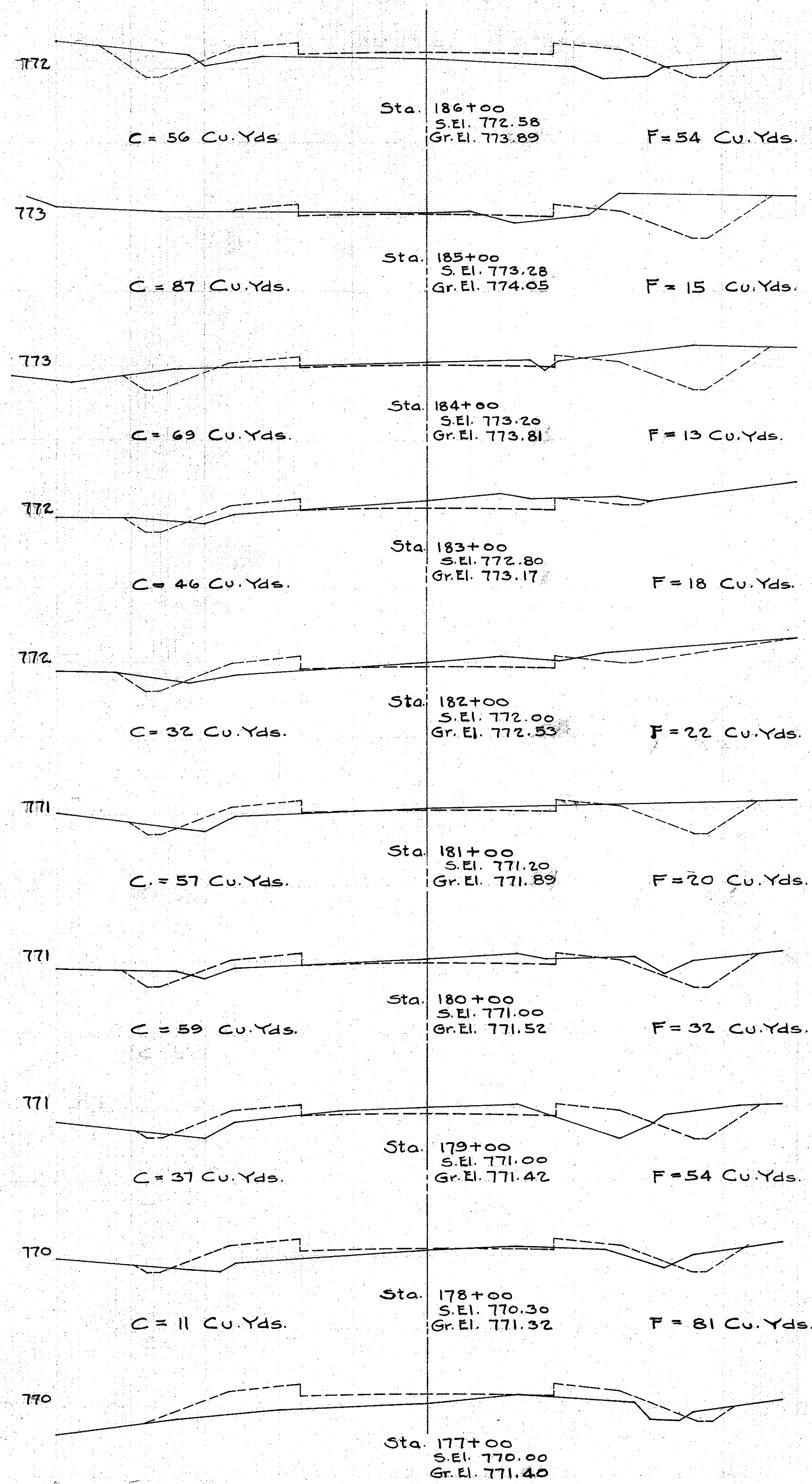
I.C.H. NO. 270 SECTION "C"
SENECA COUNTY



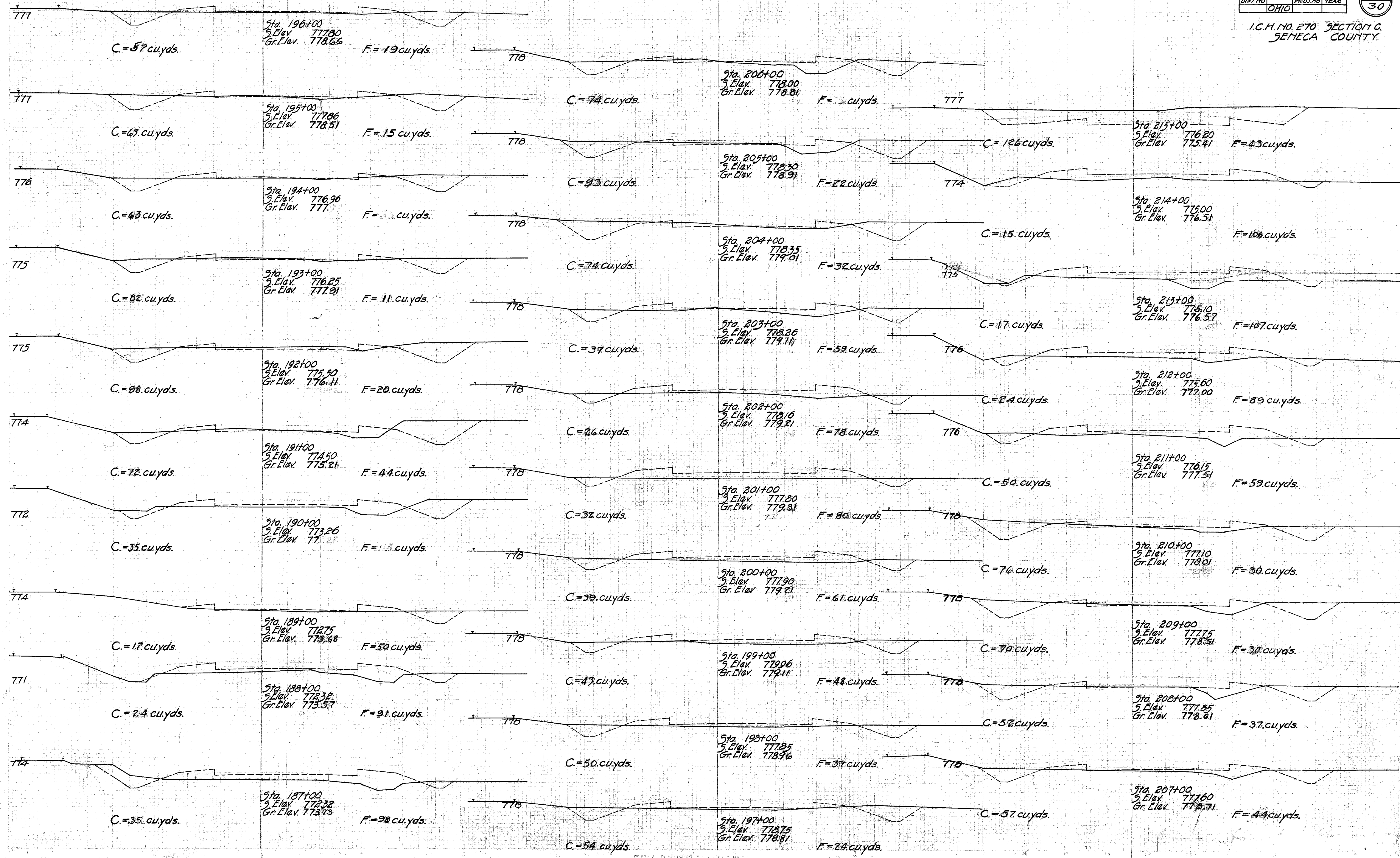
FED. RD. DIST. NO.	STATE	FED AID PROJ. NO.	FISCAL YEAR
	OHIO		

19
30

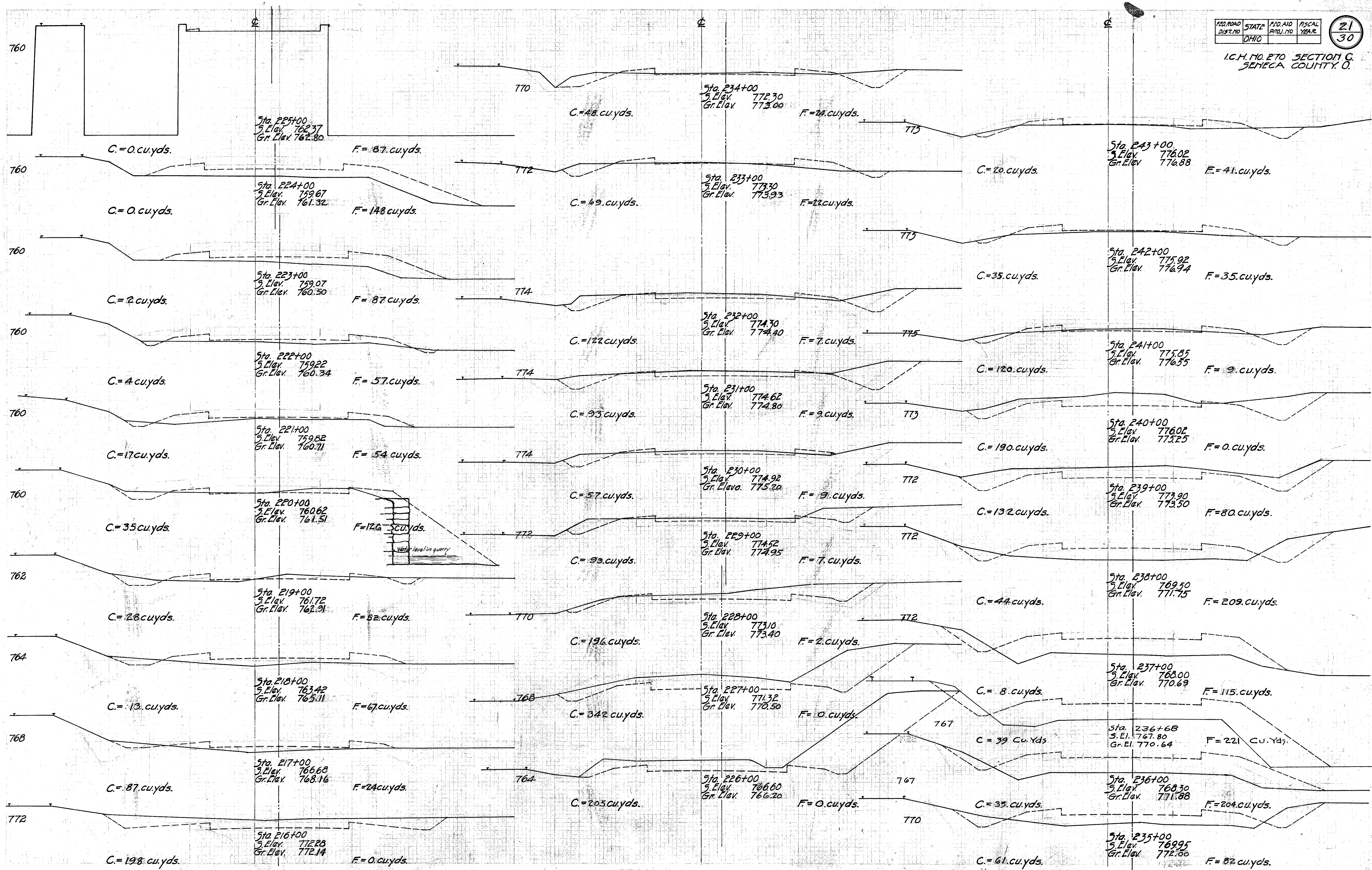
I.C.H. No. 270 SECTION "C"
SENECA COUNTY



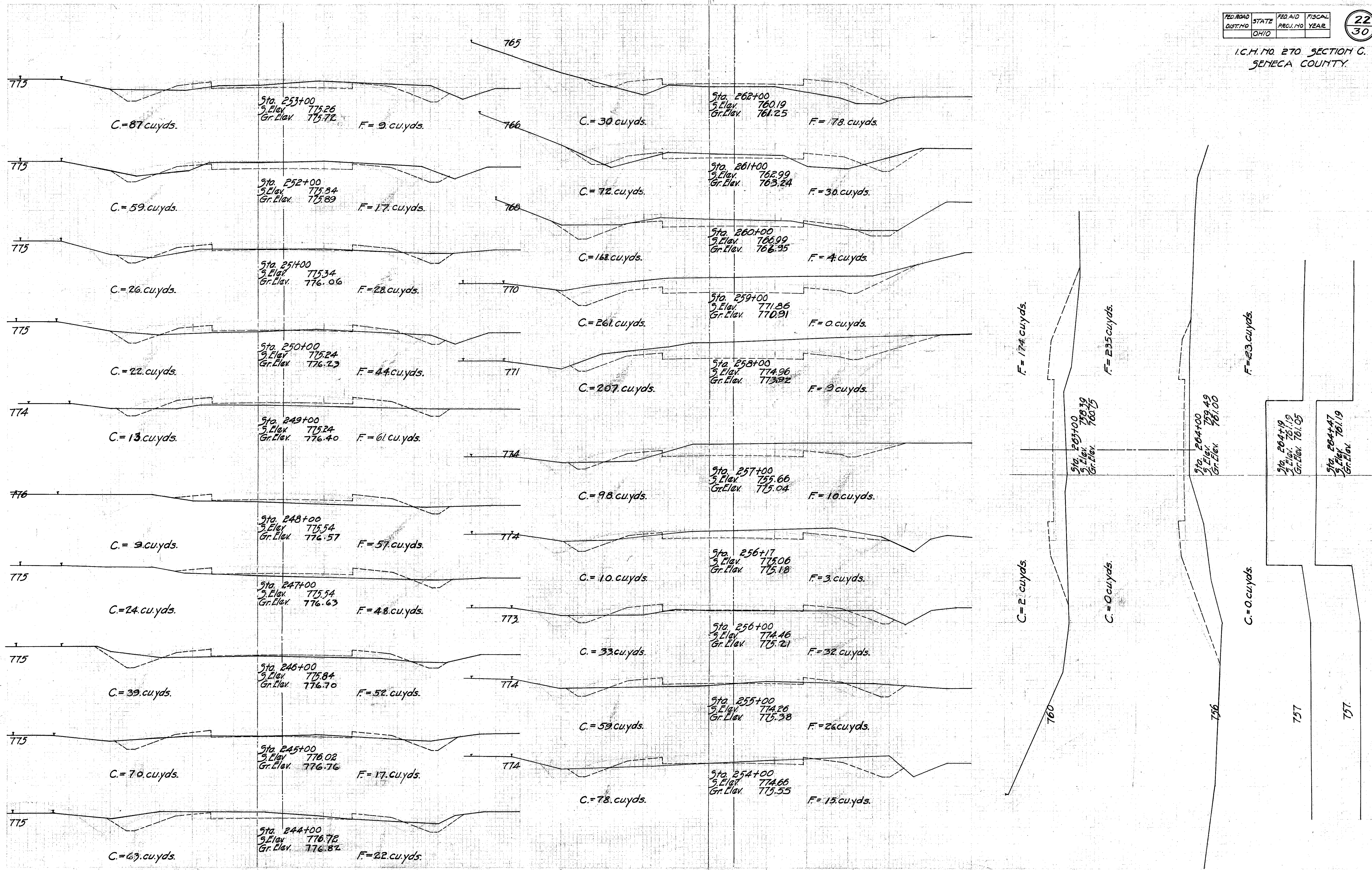
I.C.H. NO. 270 SECTION C.
SENECA COUNTY.



I.C.H. NO. 270 SECTION C.
GENECA COUNTY, O.



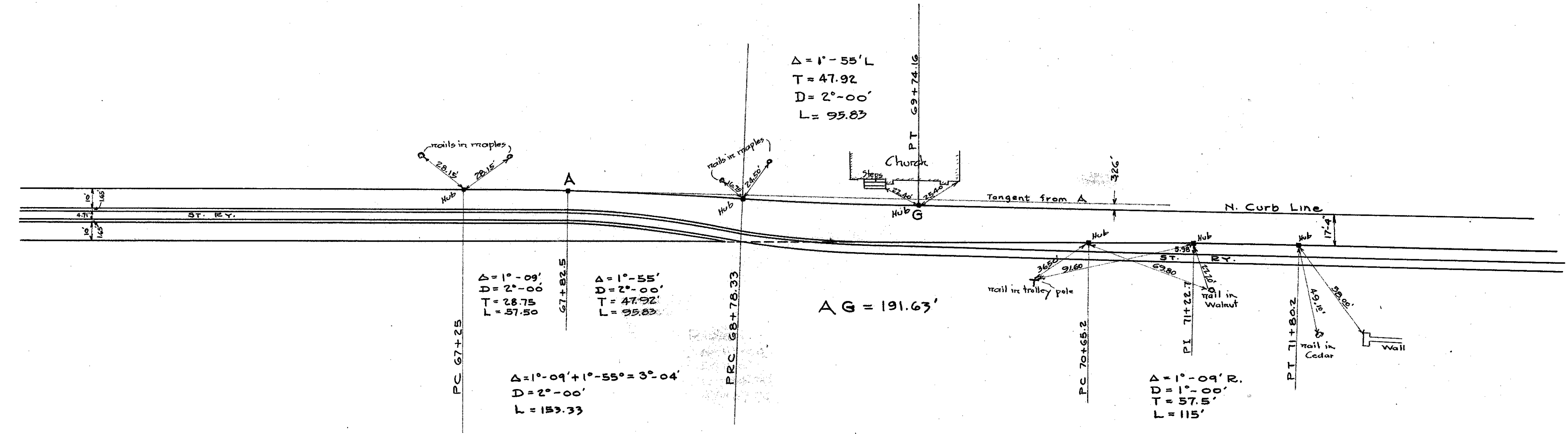
I.C.H. NO. 270 SECTION C.
SENECA COUNTY.



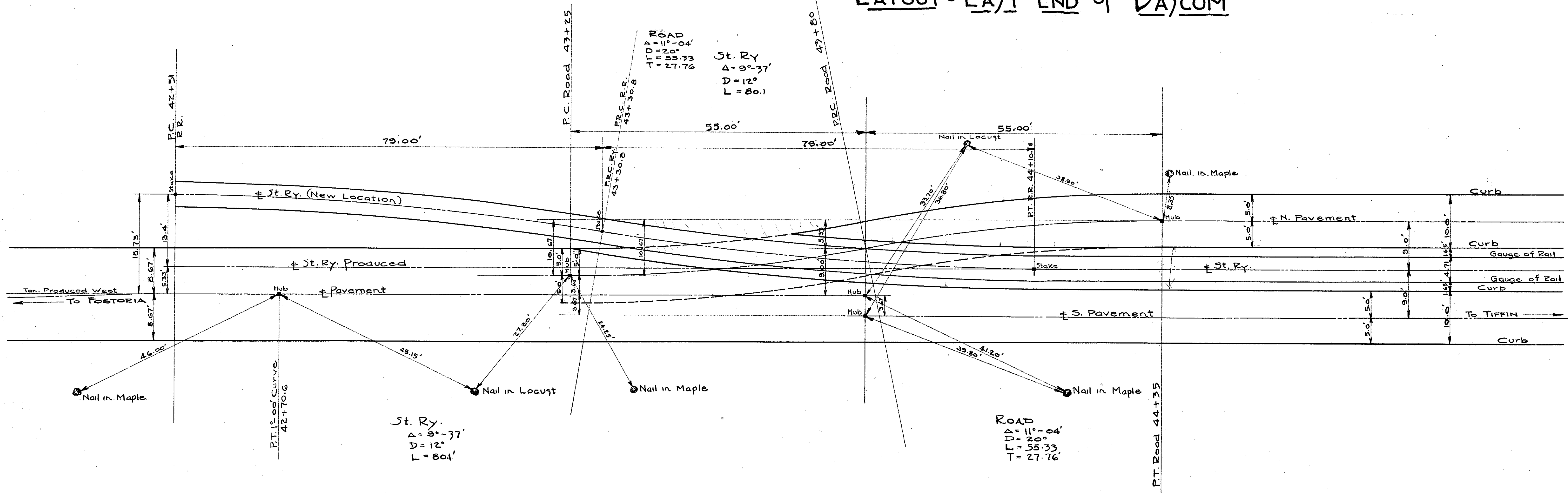
FED. RD DIST. No.	STATE	FED. AID Proj. No.	FISCAL YEAR
10	OHIO		

23
30

I.C.H. NO. 270 SECTION "C"
SENECA COUNTY

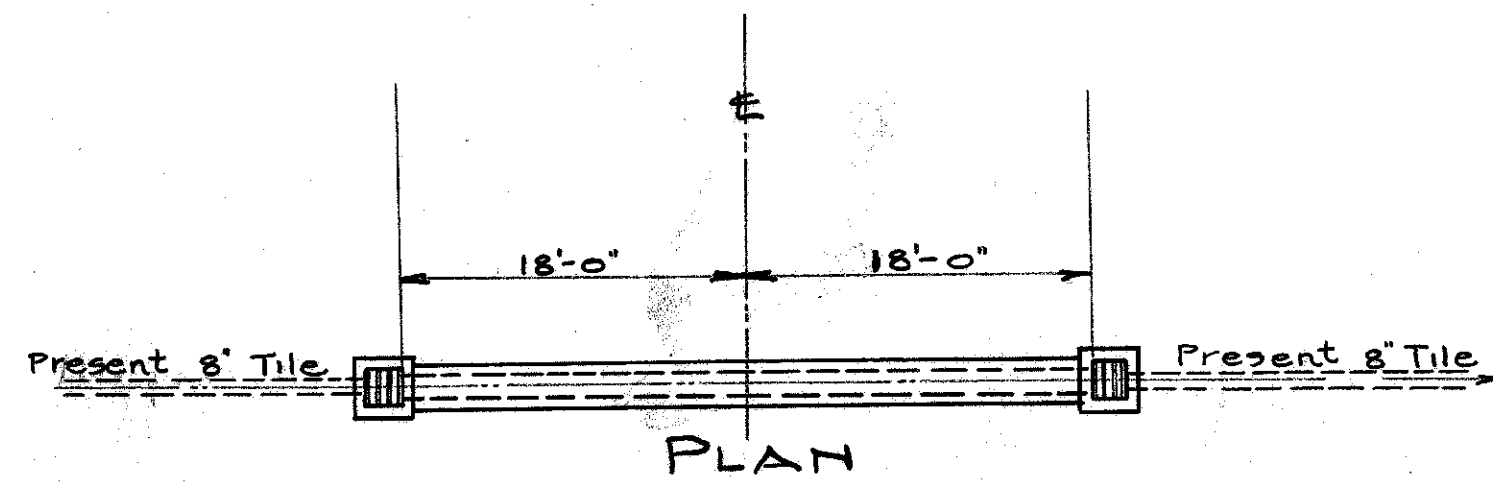


LAYOUT - EAST END OF BASCOM

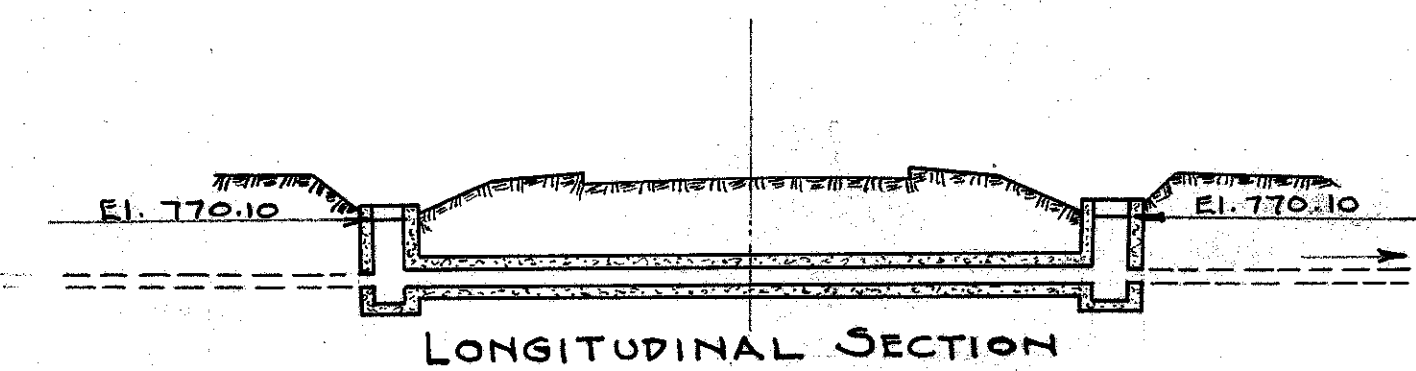


LAYOUT - WEST END OF BASCOM

ESTIMATED QUANTITIES
 Excavation 11 Cu.Yds.
 Concrete 1-2-4
 Concrete 1-3-6 3.8 Cu.Yds.
 12" Vit. S. Pipe 36 Lin.ft.
 Std. No.1 C.B. 2



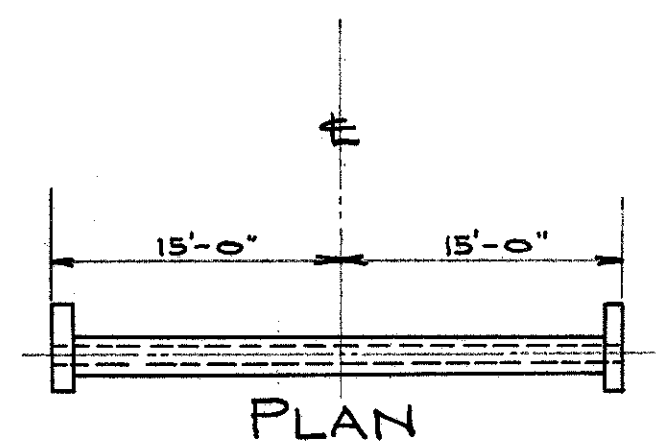
USE STANDARD PLAN FOR 12" VITRIFIED PIPE CULVERT & STD. NO.1 C.B.



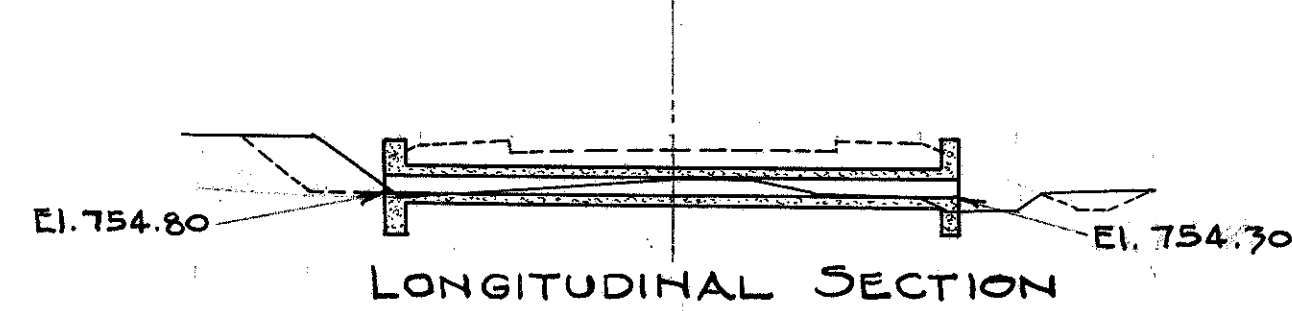
STD. 12" VIT. PIPE CULVERT & 2-STD. NO.1 C.B's.

STA. 91+24

ESTIMATED QUANTITIES
 Excavation 5 Cu.Yds.
 Concrete 1-2-4 2 " "
 Concrete 1-3-6 3 " "
 Reinf. Steel 45 lbs.
 12" Vit. S. Pipe 30 lin. ft.



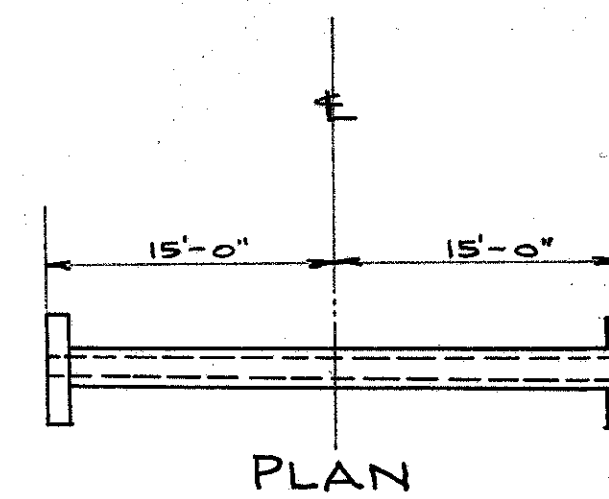
USE STANDARD PLAN FOR 12" VITRIFIED PIPE CULVERT.



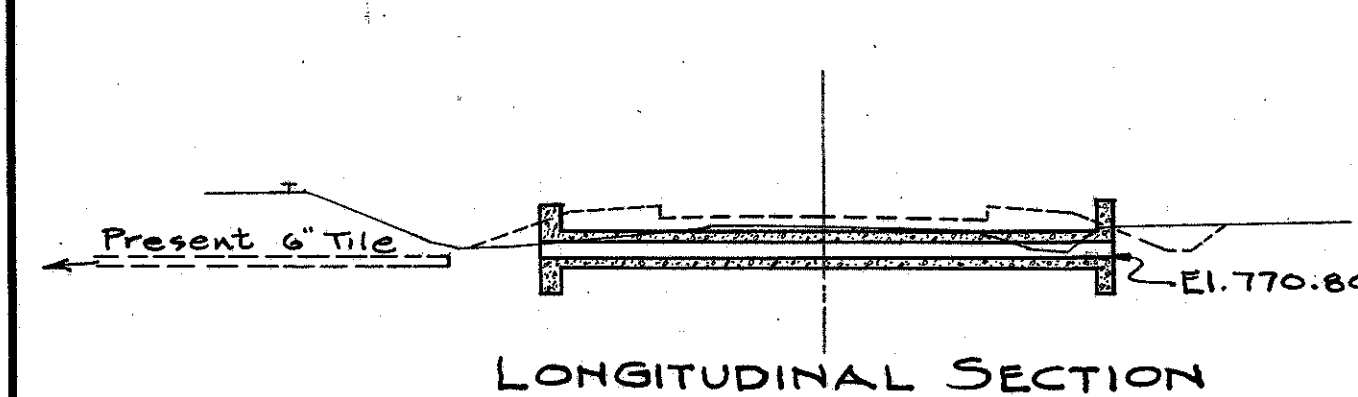
STD. 12" VIT. PIPE CULVERT

STA. 152+00

ESTIMATED QUANTITIES
 Excavation 5 Cu.Yds.
 Concrete 1-2-4 2 " "
 Concrete 1-3-6 3 " "
 Reinf. Steel 45 lbs.
 12" Vit. S. Pipe 30 lin. ft.



USE STANDARD PLAN FOR 12" VITRIFIED PIPE CULVERT



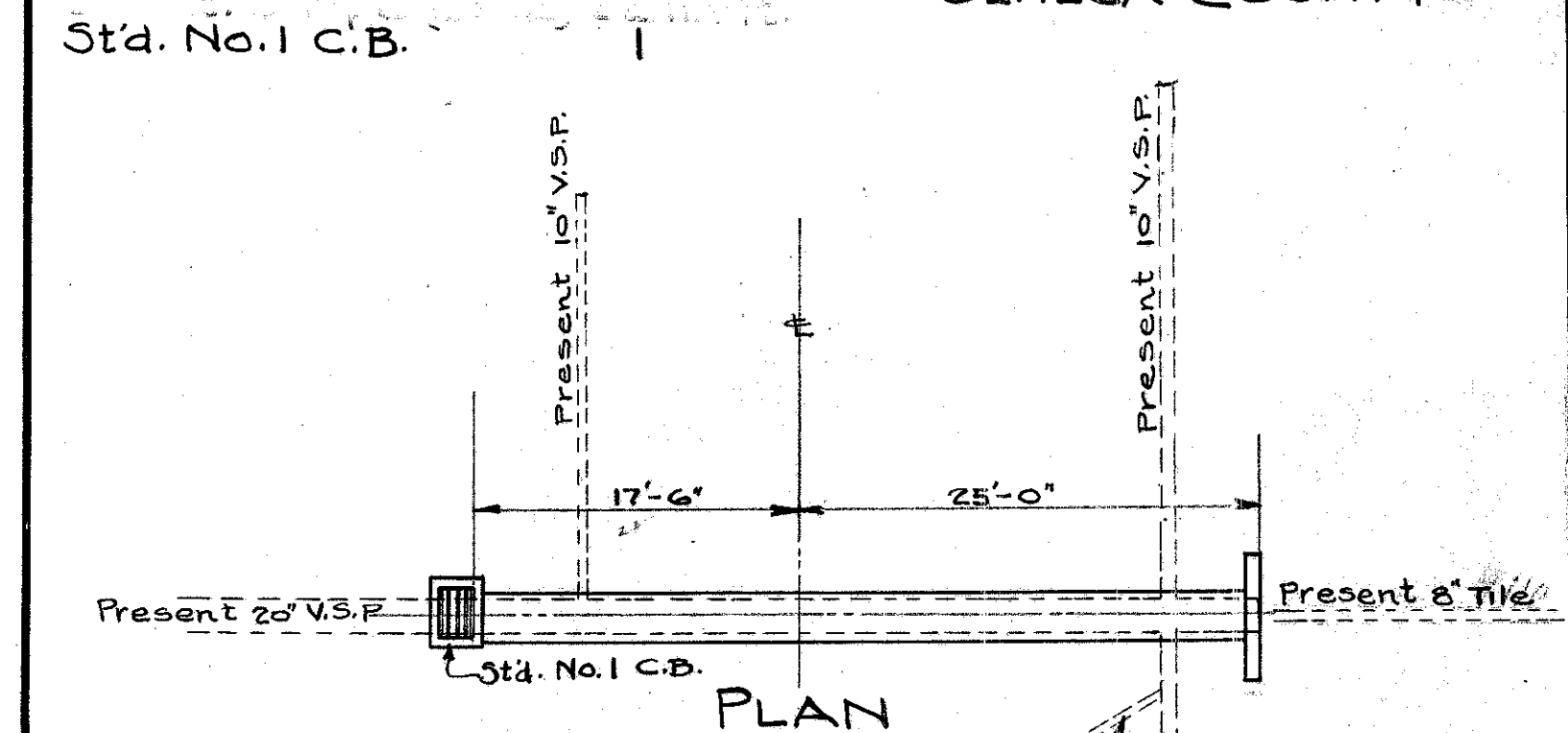
STD. 12" VIT. PIPE CULVERT

STA. 188+18

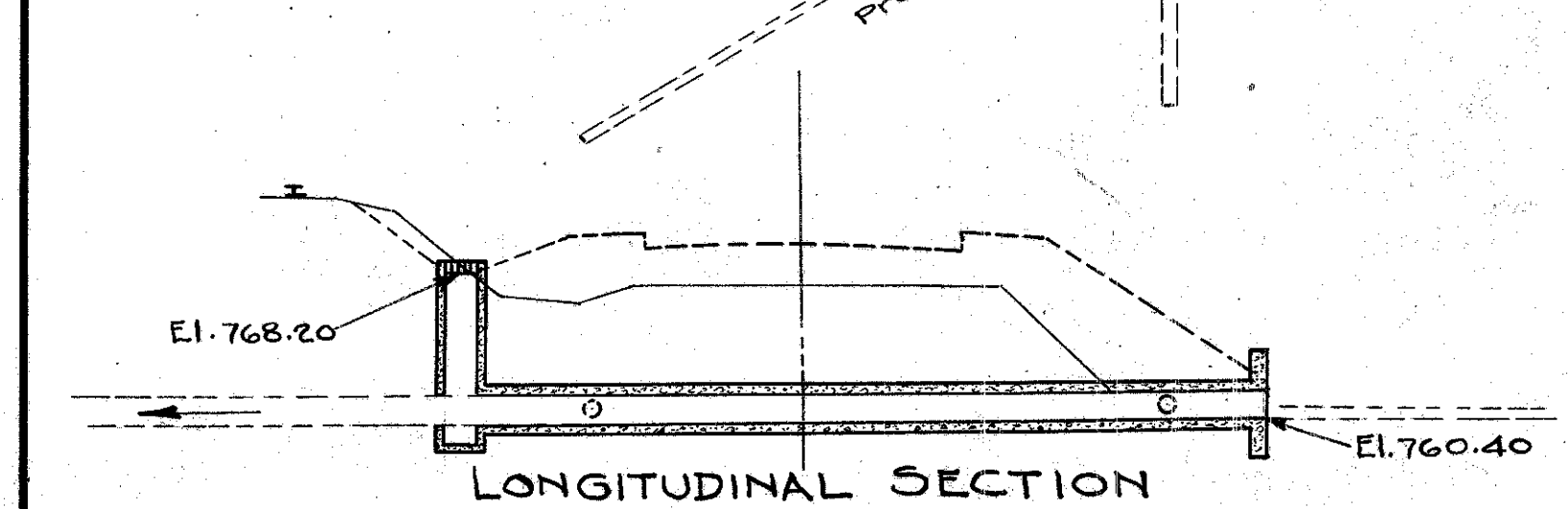
ESTIMATED QUANTITIES
 Excavation 30 Cu.Yds.
 Concrete 1-2-4 1.3 " "
 Concrete 1-3-6 7 " "
 Reinf. Steel 35 lbs.
 20" Vit. S. Pipe (New) 42 lin. ft.

FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR
	OHIO		

I.C.H. NO. 270 SECTION 'C'
 SENECA COUNTY



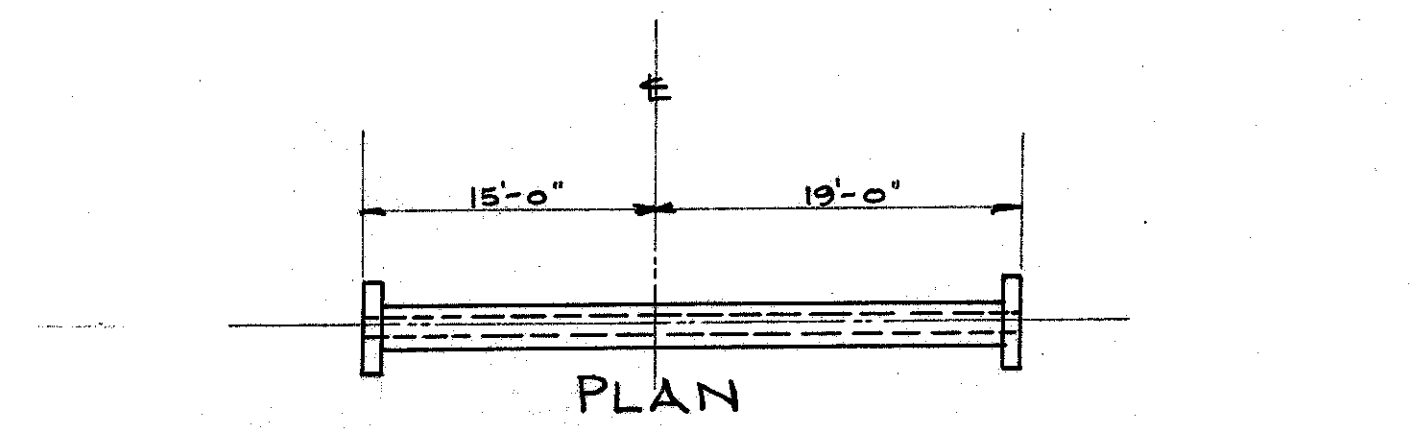
USE STANDARD PLAN FOR 20" VITRIFIED PIPE CULVERT AND STD. NO. 1 C.B.



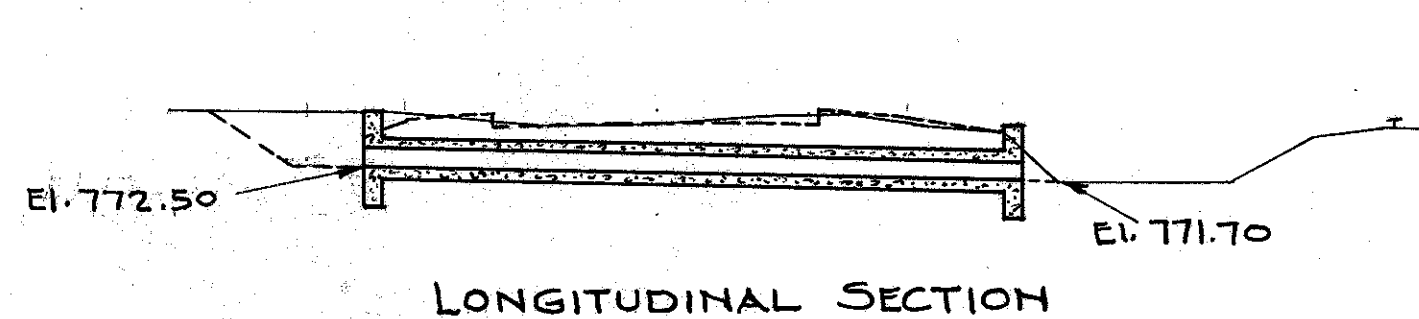
STD. 20" VIT. PIPE CULVERT & STD. NO.1 C.B.

STA. 276+68

ESTIMATED QUANTITIES
 Excavation 10 Cu.Yds.
 Concrete 1-2-4 2 " "
 Concrete 1-3-6 3.5 " "
 Reinf. Steel 45 Lbs.
 12" Vit. S. Pipe 34 Lin.ft.



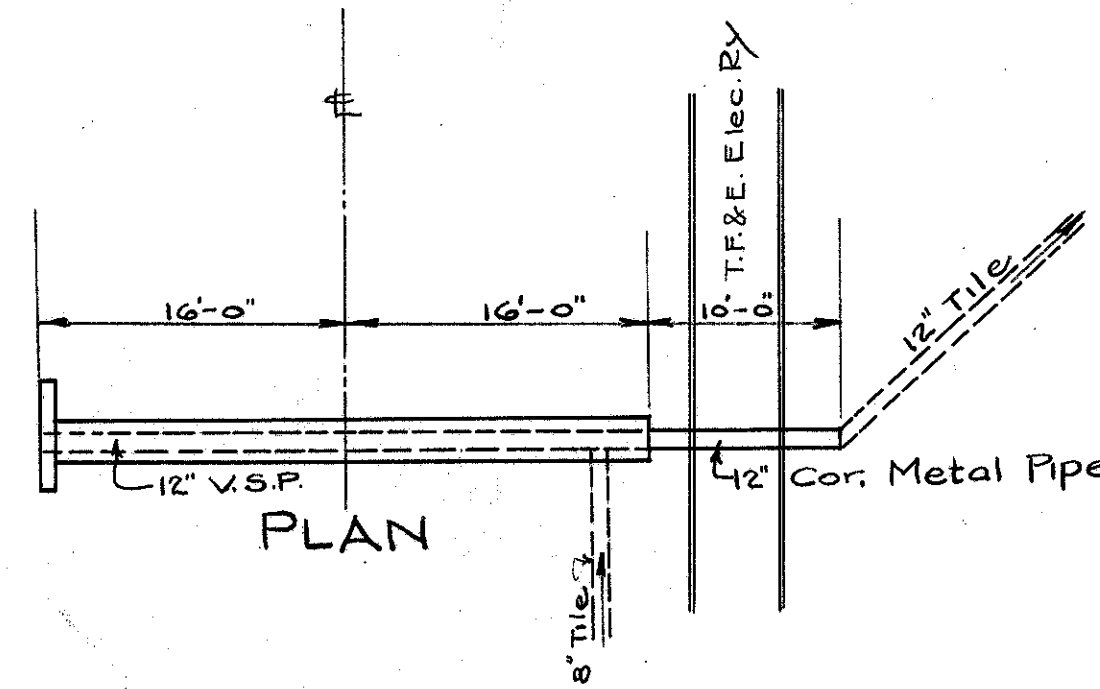
USE STANDARD PLAN FOR 12" VITRIFIED PIPE CULV.



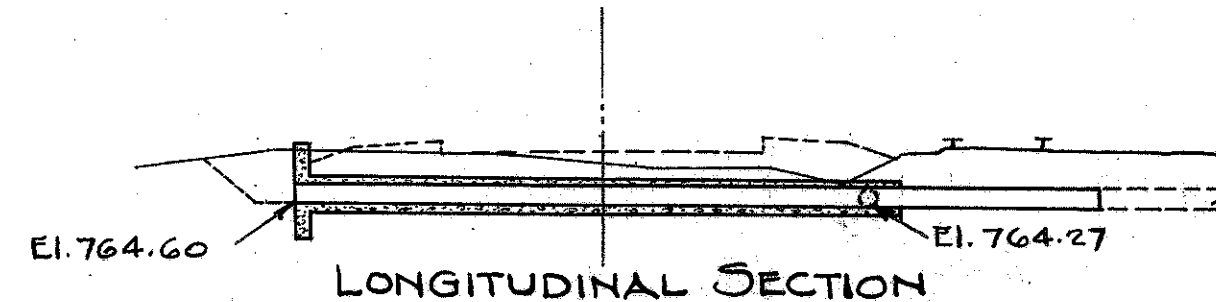
STD. 12" VITRIFIED PIPE CULVERT.

STA. 19+27

ESTIMATED QUANTITIES
 Excavation 10 Cu.Yds.
 Concrete 1-2-4 1 Cu.Yds.
 Concrete 1-3-6 3.4 Cu.Yds.
 12" Vit. S. Pipe 32 lin. ft.
 12" Cor. Metal Pipe 10 lin. ft.
 Reinf. Steel 23 lbs.



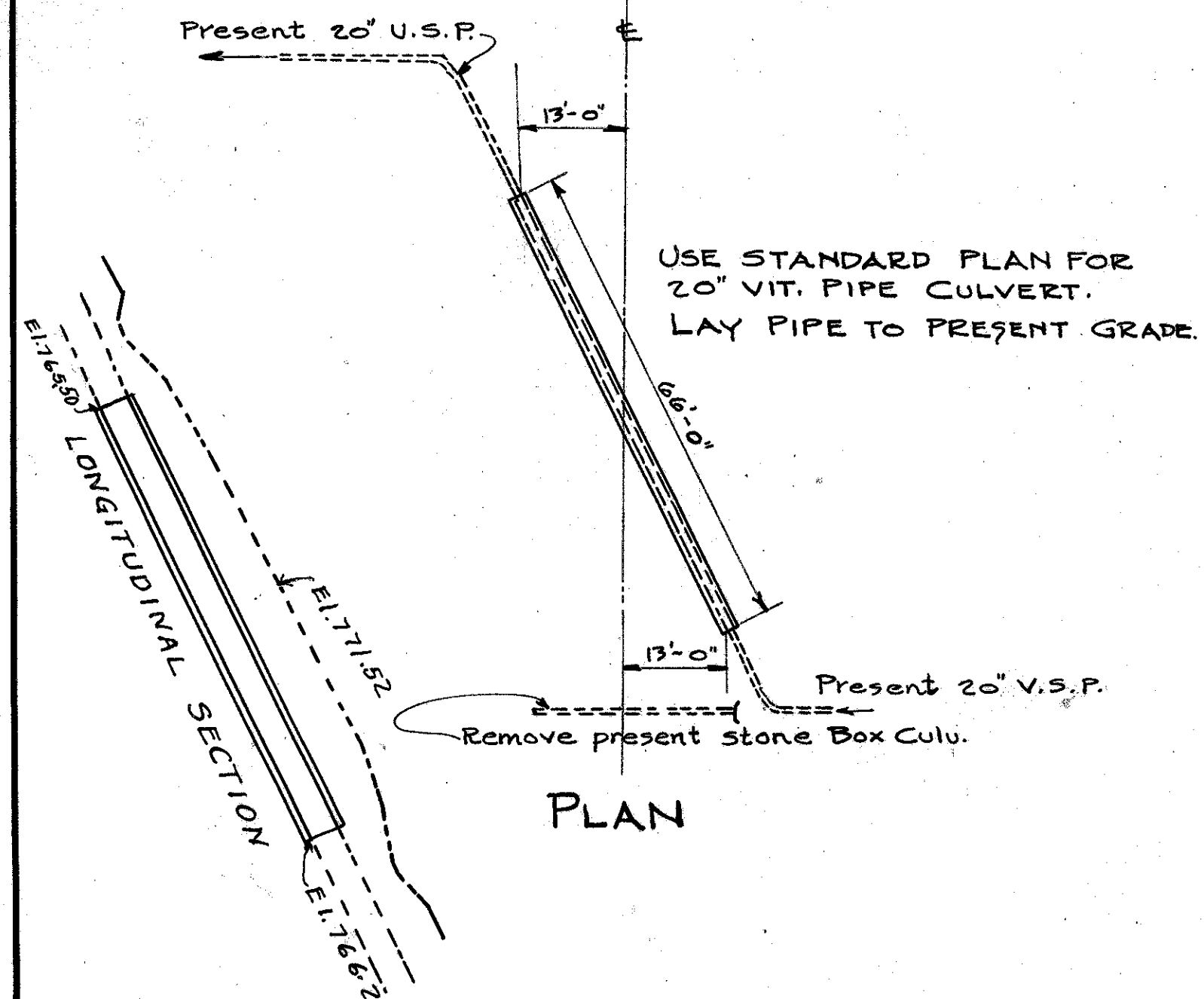
USE STANDARD PLAN FOR 12" VITRIFIED PIPE CULVERT - 1 H' WALL.



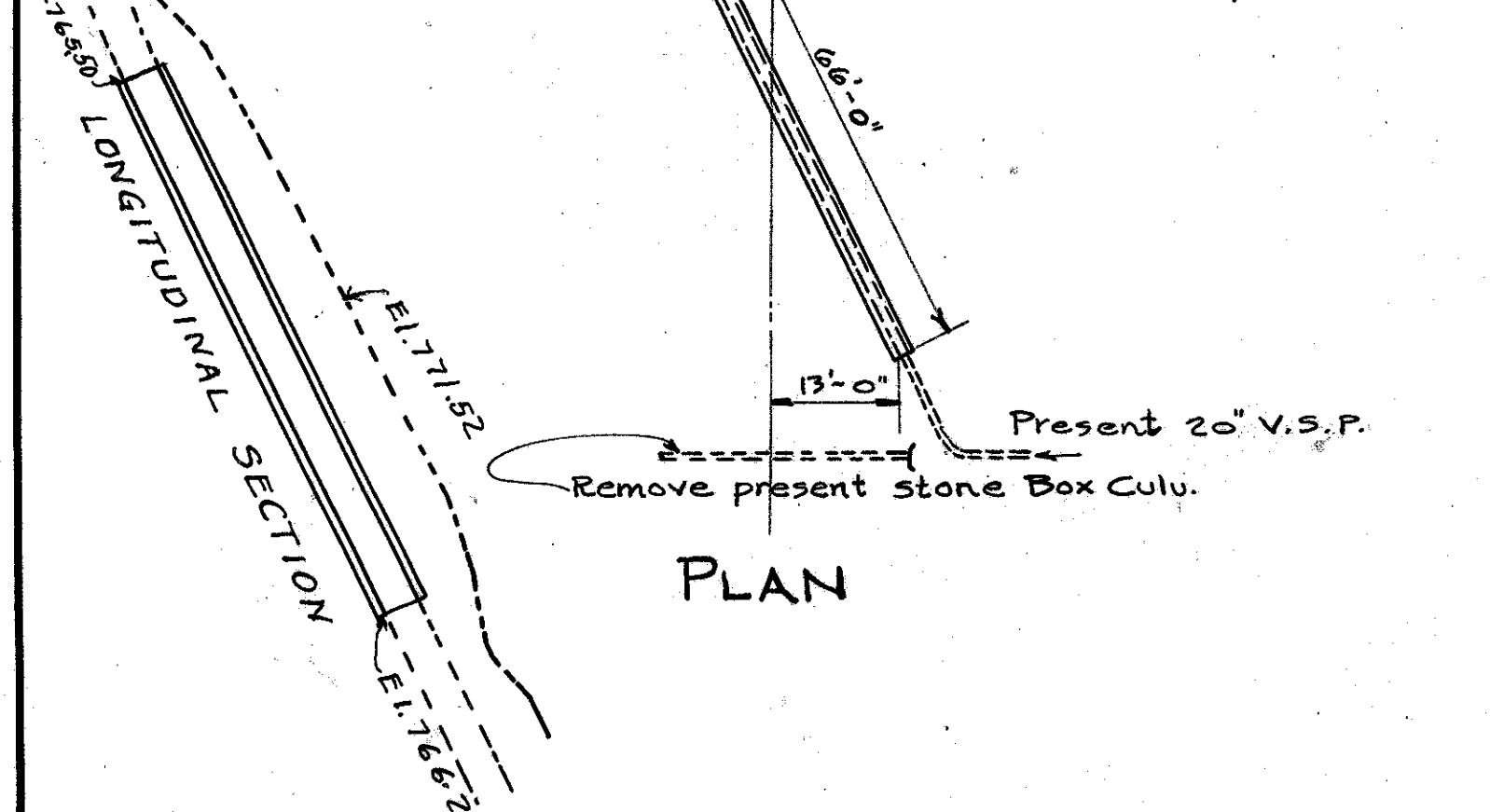
STD. 12" VITRIFIED PIPE CULVERT

STA. 174+50

ESTIMATED QUANTITIES
 Excavation 30 Cu.Yds.
 Concrete 1-3-6 11.3 " "
 20" Vit. S. Pipe (New) 66 lin. ft.



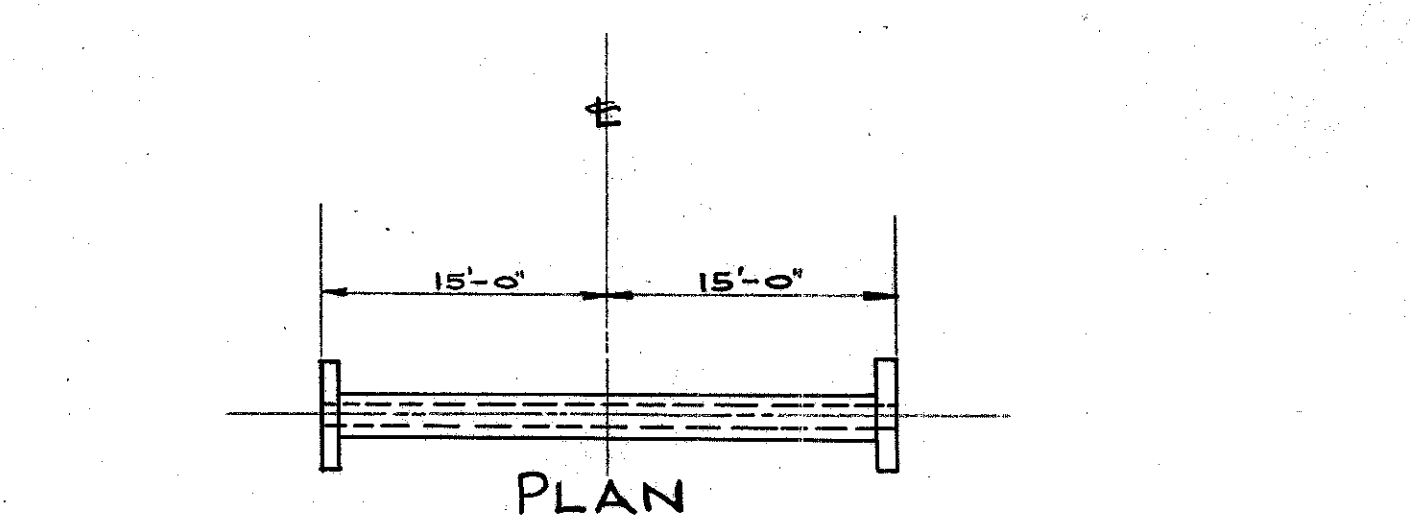
USE STANDARD PLAN FOR 20" VIT. PIPE CULVERT. LAY PIPE TO PRESENT GRADE.



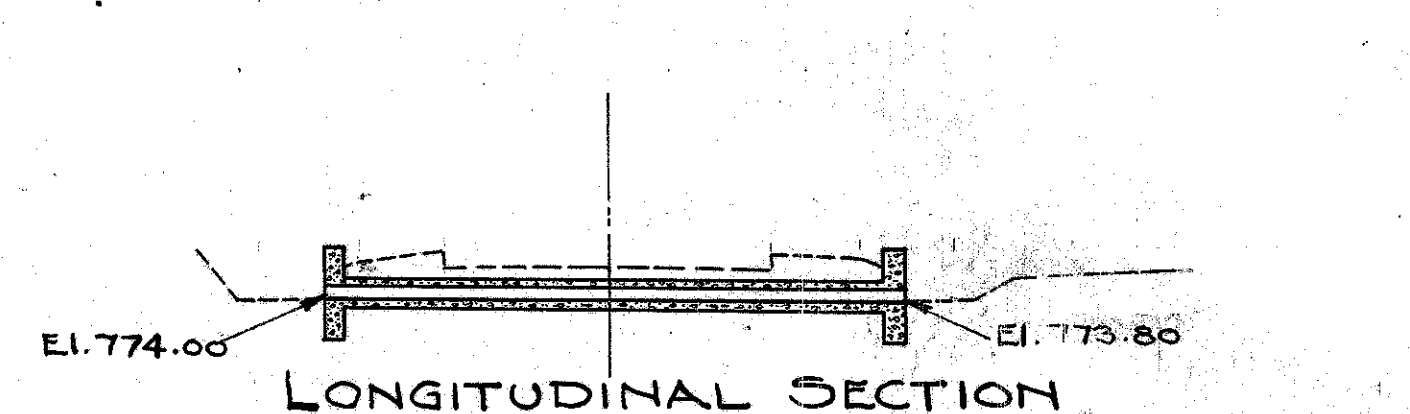
STD. 20" VITRIFIED PIPE CULVERT

STA. 176+50

ESTIMATED QUANTITIES
 Excavation 5 Cu.Yds.
 Concrete 1-2-4 2 " "
 Concrete 1-3-6 3 " "
 Reinf. Steel 45 lbs.
 12" Vit. S. Pipe 30 lin.ft.



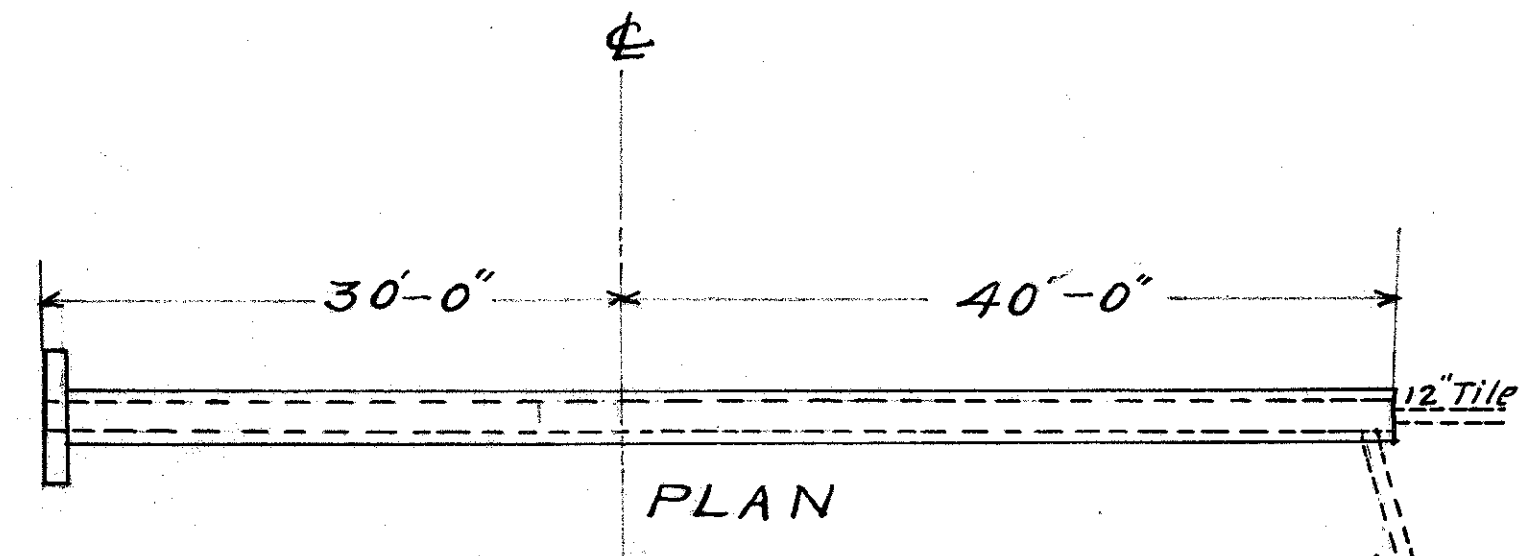
USE STANDARD PLAN FOR 12" VIT. PIPE CULVERT



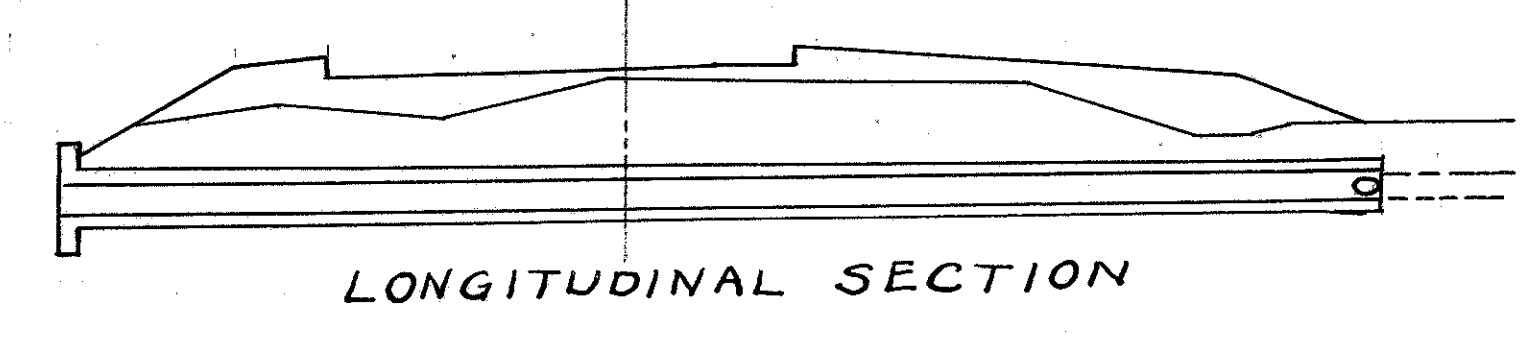
STD. 12" VITRIFIED PIPE CULVERT

STA. 213+47

Estimate Quantities
Excavation 25 cu. yds.
Concrete 1-2-4 1.4 cu. yds.
Concrete 1-3-6 10.6 cu. yds.
Reinf. Steel 28 lbs.
18" Vit. S. Pipe 70 lin. ft.



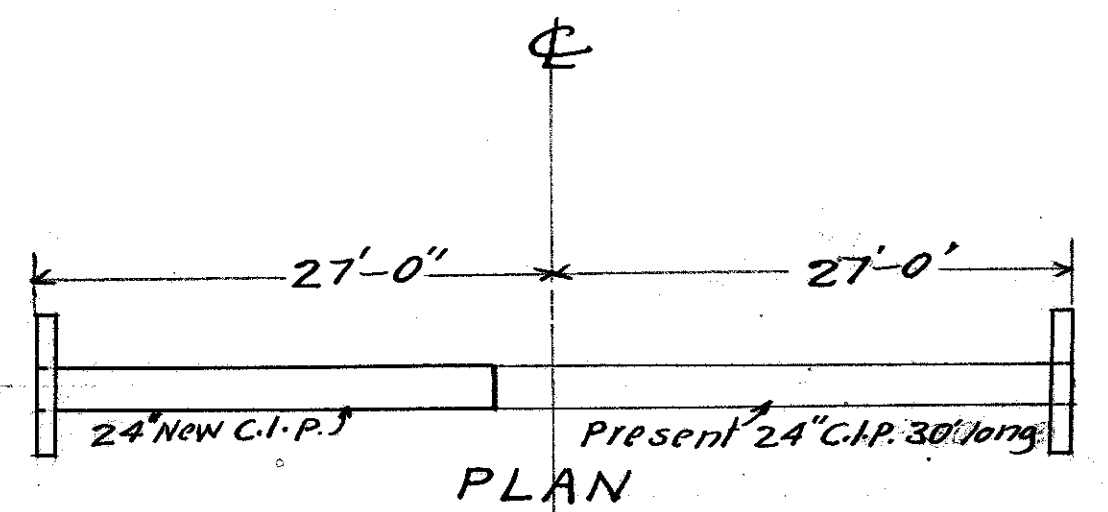
Use standard Plan for 18" Vitrified Pipe Culvert one Headwall
Remove present 12" tile and lay Vit. s. Pipe to present Gr. of tile.



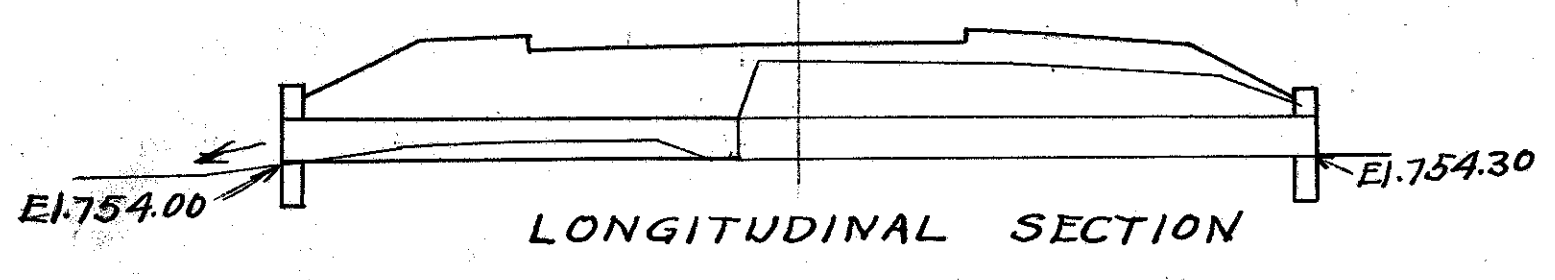
STD. 18" VITRIFIED PIPE CULVERT

Sta. 264+02

Estimate Quantities
Excavation 5 cu. yds.
Concrete 1-2-4 2.8 cu. yds.
Reinf. Steel 45 lbs.
24" C.I. Pipe 24 lin. ft.



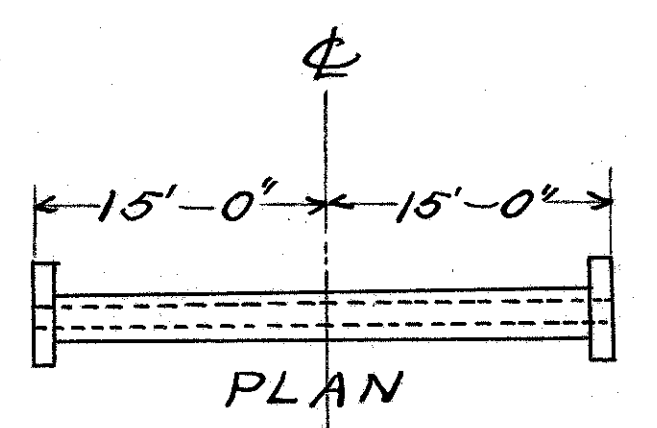
Extend present 24" C.I.P. culv. Build New Headwalls, Use standard plan



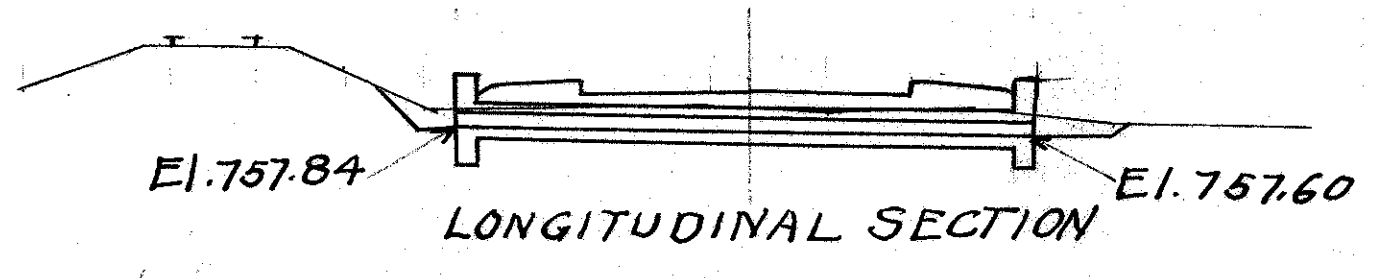
STD. 24" IRON PIPE CULVERT

Sta. 263+65

Estimate Quantities
Excavation 5 cu. yds.
Concrete 1-2-4 2 cu. yds.
Concrete 1-3-6 3 cu. yds.
Reinf. Steel 45 lbs.
12" Vit. S. Pipe 30 lin. ft.



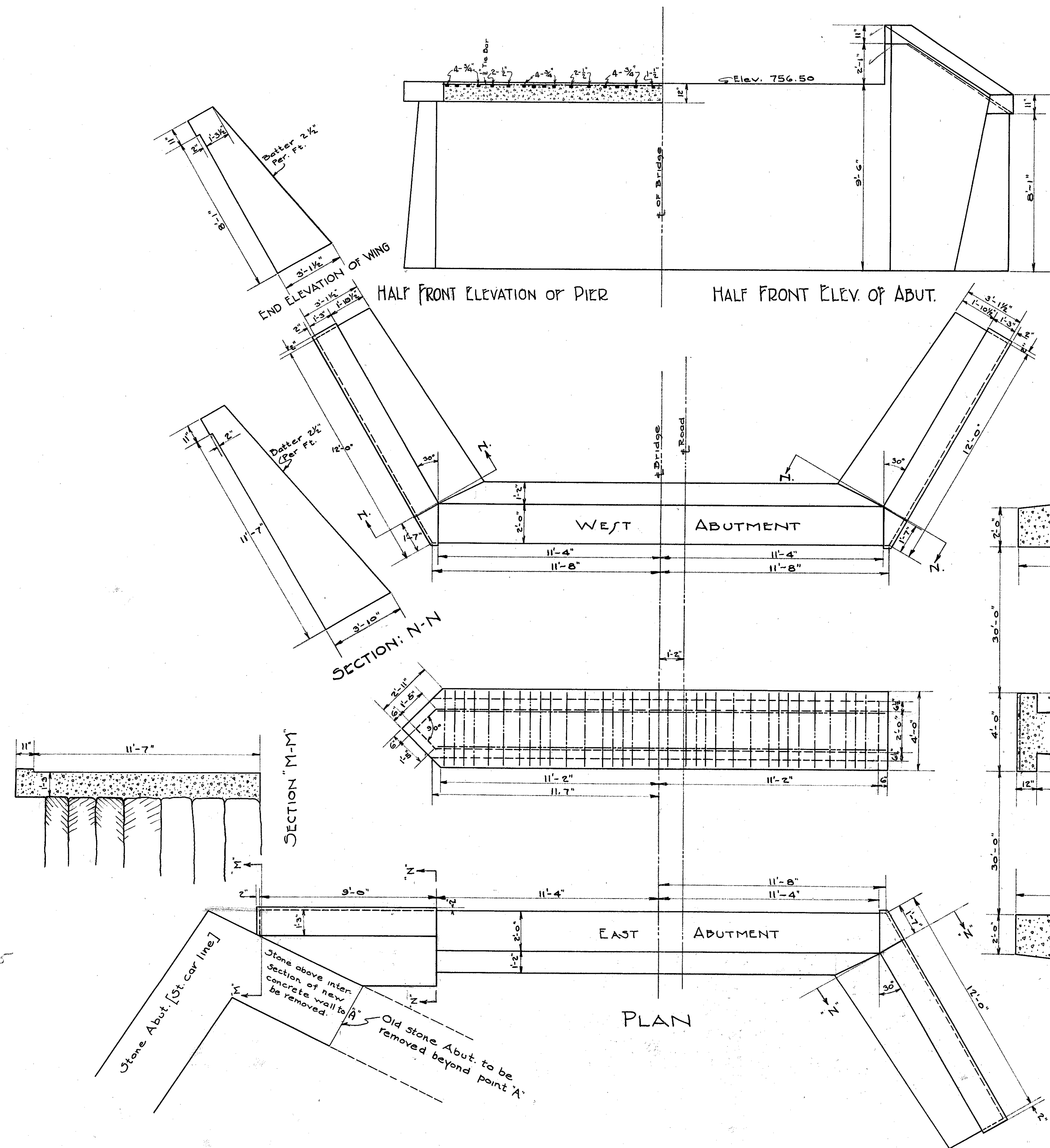
Use standard plan for 12" Vitrified culvert.



STD. 12" VITRIFIED CULVERT

Sta. 222+00

I.C.H. No. 270 SECTION "C"
SENECA COUNTY



NOTE: COPING OF PIER 1-2-4 MIX
ALL OTHER CONCRETE 1-2½-5 MIX
EXPOSED EDGES CHAMFERED 1½" x 1½"
STONE FROM OLD ABUT. TO BE USED FOR RIP-RAPPING BANK
EAST OF STATION 149+00 This item included in excavation
REINF. STEEL Sq. TWI. BAR 9

ESTIMATED QUANTITIES
285 Cu. Yds. EXCAVATION
3.6 Cu. Yds. 1-2-4 CONCRETE
100.5 Cu. Yds. 1-2½-5 CONCRETE
175 Lbs. REINF. STEEL

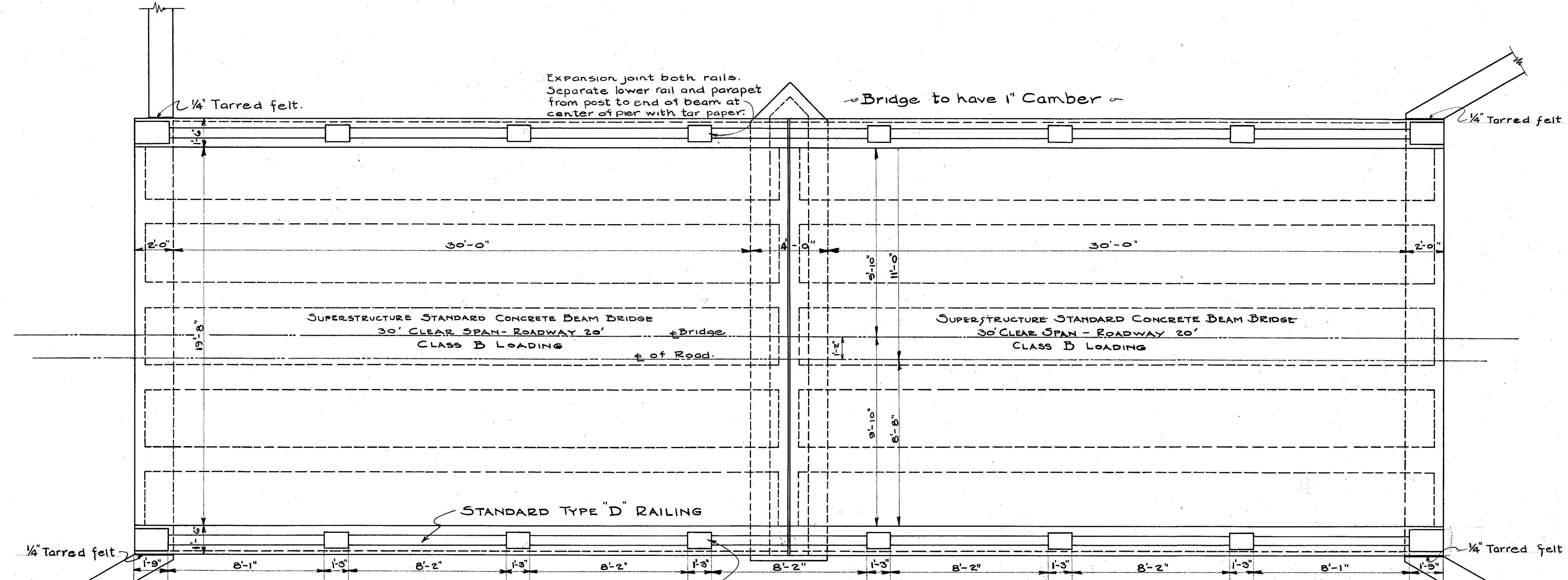
LONGITUDINAL SECTION ON CENTER LINE

STEEL LIST

SIZE	No. R.	LENGTH
¾"	24	3'-9"
½"	10	3'-9"
½"	2	23'-0"

SUBSTRUCTURE BRIDGE No. 89
STATION 147+99.5
HOPEWELL TOWNSHIP

Bot 7/7.5



Expansion joint both rails. Separate lower rail and parapet from post to end of beam at center of pier with tar paper.

Bridge to have 1" Camber

1/4" Tarred felt.

1/4" Tarred felt.

SUPERSTRUCTURE STANDARD CONCRETE BEAM BRIDGE
30' CLEAR SPAN - ROADWAY 20'
CLASS B LOADING

SUPERSTRUCTURE STANDARD CONCRETE BEAM BRIDGE
30' CLEAR SPAN - ROADWAY 20'
CLASS D LOADING

STANDARD TYPE "D" RAILING

1/4" Tarred felt

1/4" Tarred felt

Expansion joint both rails, separate lower rail and parapet from post to end of beam at center of pier with tar paper.

NOTE:-
Wearing surface 2" Bituminous Concrete. Exposed edges chamfered 1/2" x 1/2". All railing posts bush-hammered. Place 3 layers of tarred felt on each abutment and between beams & wing walls, so as to entirely separate super struc. from sub. struc.

STEEL FOR RAILING.

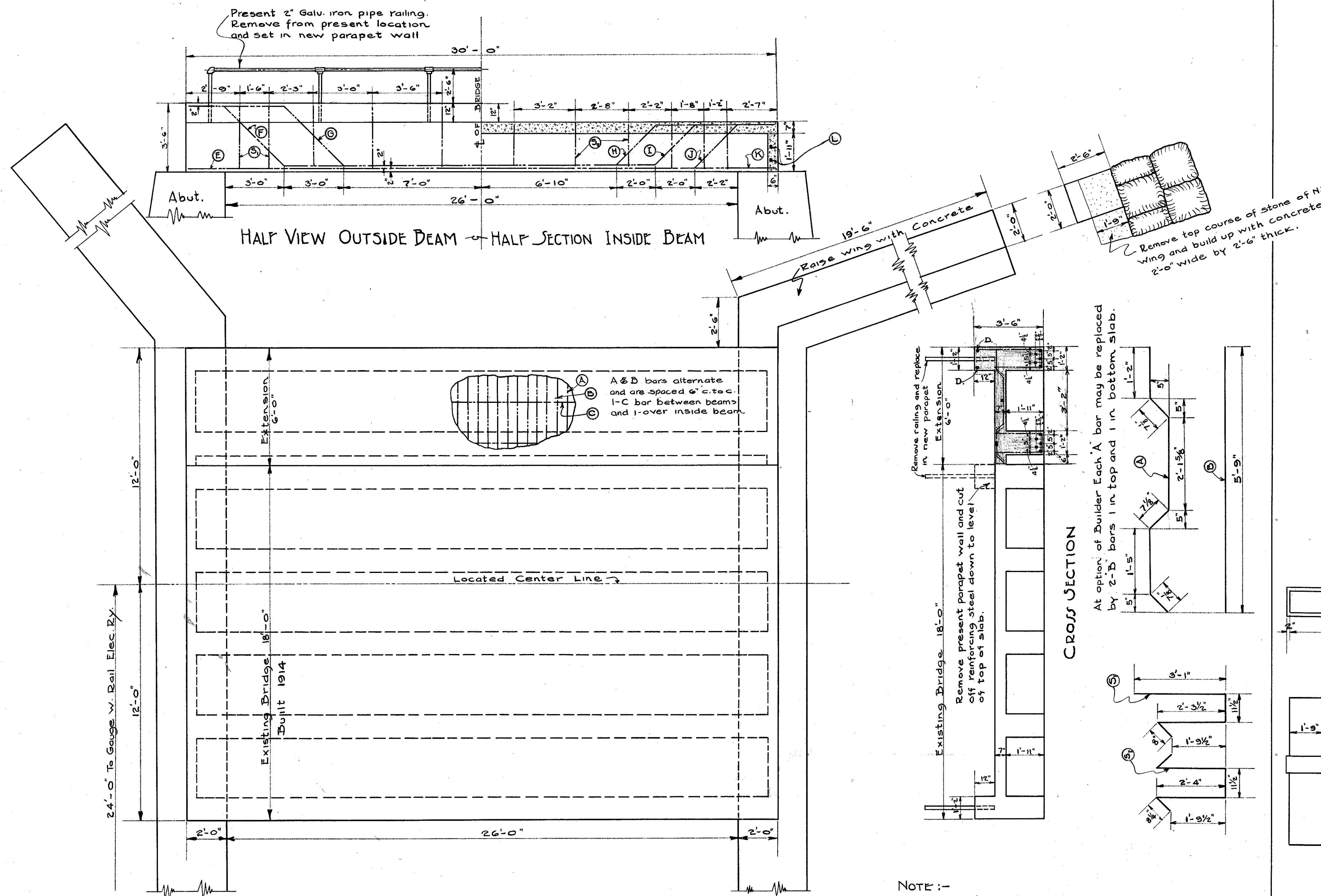
No. Reqd.	Size	Length	Weight
64	1/2"	4'-6"	218
84	3/8"	8'-6"	383

ESTIMATED QUANTITIES IN SUPERSTRUCTURE

1-2-4 CONCRETE	68.8 Cu. Yds.
REINFORCING STEEL	12620 Lbs.
TYPE "D" RAILING	136 Lin. Ft.

SUPERSTRUCTURE BRIDGE No. 89
STATION 147 + 99±
HOPEWELL TOWNSHIP

1-C.H. No. 270 SECTION "C"
SENECA COUNTY



STEEL LIST

LETTER	SIZE	No. Req.	LENGTH
A	1/2"	26	6'-6"
B	1/2"	27	5'-9"
C	3/8"	2	29'-9"
D	3/8"	2	29'-9"
E	7/8"	3	29'-9"
F	1"	1	32'-3"
G	1"	1	32'-3"
H	1 1/8"	1	31'-3"
I	1 1/8"	1	31'-3"
J	1"	1	31'-6"
K	1"	2	29'-9"
L	1/2"	4	5'-9"
S1	3/8"	10	7'-0"
S2	3/8"	12	7'-0"

EXTENSION OF CONCRETE BEAM BRIDGE No. 127
STATION 225+00
HOPEWELL TOWNSHIP

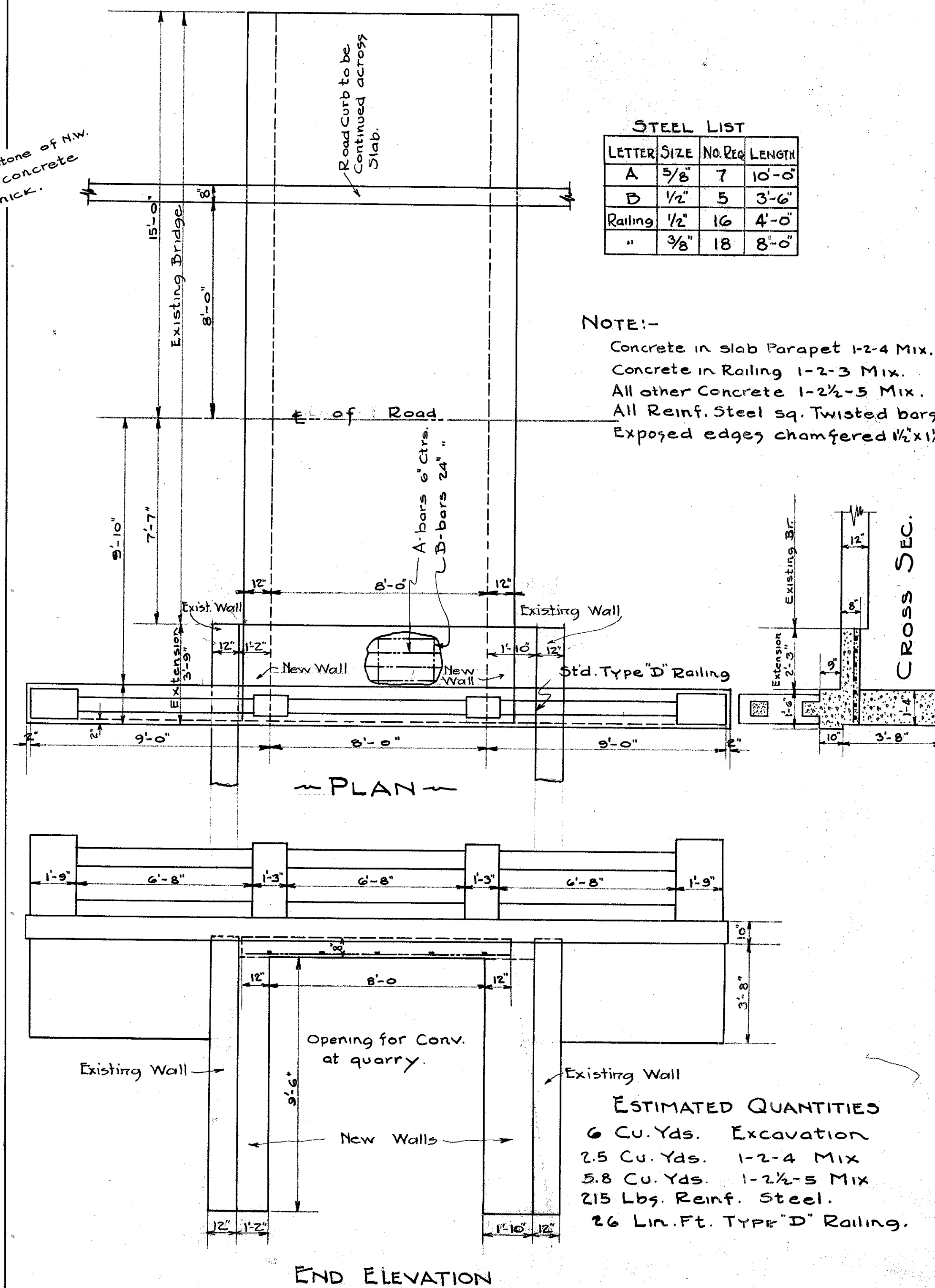
NOTE:-
ALL CONCRETE 1-2-4 MIX
ALL REINFORCING STEEL Sq. Twl. bars
Except stirrups which may be plain Squares
Exposed edges chamfered 1/2" x 1/2"

ESTIMATED QUANTITIES
10.5 Cu. Yds. Conc. in Superstructure
3.8 " " " " N.W. Wing
1360 Lbs. Reinforcing Steel.

STEEL LIST

LETTER	SIZE	No. Req.	LENGTH
A	5/8"	7	10'-0"
B	1/2"	5	3'-6"
Railing	1/2"	16	4'-0"
"	3/8"	18	8'-0"

NOTE:-
Concrete in slab Parapet 1-2-4 Mix.
Concrete in Railing 1-2-3 Mix.
All other Concrete 1-2 1/2-5 Mix.
All Reinf. Steel sq. Twisted bars.
Exposed edges chamfered 1/2" x 1/2"



EXTENSION OF SLAB
STATION 137+70
HOPEWELL TOWNSHIP

ESTIMATED QUANTITIES
6 Cu. Yds. Excavation
2.5 Cu. Yds. 1-2-4 Mix
5.8 Cu. Yds. 1-2 1/2-5 Mix
215 Lbs. Reinf. Steel.
26 Lin. Ft. TYPE "D" Railing.

Summary of Quantities Bridges and Culverts

Station or Sec.	Type	Size	Length	Work Required	Excava			Concrete			Reinforcing Steel Pounds	C.I. Pipe Relayed Lin. Ft.	Vitrified Sewer Pipe					Standard No. I.C.B. No.	C.I. Pipe 24" New Lin. Ft.	Standard Railing Type "D" Lin. Ft.	Corr. Mt. Pipe 12" Lin. Ft.	Remarks
					Earth Cu. Yds.	Rock Cu. Yds.	1-2-4 Cu. Yds.	1-2 1/2-5 Cu. Yds.	1-3-6 Cu. Yds.	12" New Lin. Ft.			18" New Lin. Ft.	20" New Lin. Ft.	20" Relyd Lin. Ft.							
STRUCTURES UNDER 20 FT.																						
19+27	Vit. Pipe	12"	34'	New Std. Vit. Pipe Culv.	10		2		3.5	45		34										
91+24	"	12"	36'	New Std. Vit. Pipe Culv. 2 Std. No. 1 C.B.	11				3.8			36			2							
134+50	"	12"	46'	New Std. Vit. Pipe Culv. & Cor. Metal Pipe	10		1		3.4	23		32										
137+70	Slab Top	20' R'way	8' Span	Extend Abts. & Slab over Conv. Pit at Quarry	6		2.5	5.8		215								26	10	Use Cor Metal Pipe under Elec. Ry.		
152+00	Vit. Pipe	12"	30'	New Std. Vit. Pipe Culv.	5		2		3.0	45		30										
176+50	"	20"	66'	Repair present Culv.	30				11.3					66								
188+18	"	12"	30'	New Std. Vit. Pipe Culv.	5		2		3.0	45		30										
213+47	"	12"	30'	New Std. Vit. Pipe Culv.	5		2		3.0	45		30										
222+00	"	12"	30'	New Std. Vit. Pipe Culv.	5		2		3.0	45		30										
236+68	"	20"	42'	Repair present Culv.	30		1.5		7.0	35				42								
263+65	C.I.P.	24"	54'	Extend present Culv. Build H'walls.	5		2.8			45					1			24				
264+02	Vit. Pipe	18"	70'	New Std. Vit. Pipe Culv. 1-H'dwall	25		1.4		10.6	28				70								
TOTAL OF QUANTITIES					147		19.2	5.8	51.6	571		222	70	100		3	24	26	10			
STRUCTURES OVER 20 FT.																						
147+99	Bridge	20' R'way	60' Span	New Conc. substructure	285		3.6	100.5		175												
147+99	"	20' R'way	60' "	2-New 30' Span Conc. Beam Bridges			68.8			12620								136		Remove old bridge.		
225+00	"	22' R'way	26' "	Extend present Conc. Beam Br.			14.3			1360										Remove present parapet wall and replace present pipe railing in new parapet.		
TOTAL OF QUANTITIES					285		86.7	100.5		14155								136				

I.C.H. No. 270 SECTION "C"
JENNECA COUNTY

Summary of Quantities Private Drives, Drain Tile Etc.

Stations	TYPE	Size	Lgth	No of Joints	Distance R of L from (ent or line)	Depth Below Grade	Remarks	Excavation cu yds.	Concrete 1-3-6		V.I.S. PIPE		8" V.S.P. Cemented Joints		Drain Tile		Remarks					
									Cuyds.		8" Lin. Ft.	8" Lin. Ft.	8" Lin. Ft.	8" Lin. Ft.	8" Lin. Ft.	12" Lin. Ft.						
6+36 To 6+56	V.S.P. Drain	8"	20'		18' Rt.	30"		3														
7+03 " 7+23	"	8"	20'		18' Lt.	30"		3														
15+84 " 16+04	"	8"	20'		18' Rt.	30"		3														
22+50 " 23+00	"	8"	50'				For Gr. See Profile Drain Crosses Rd. ^{excavated in concrete}	10	3.5													
23+00 " 37+85	Tile Drain	8"	1485'		15' Lt.		For Gr. See Profile	140							1485			Construct Inlet at Sta. 23+00				
37+85	Inlet	8"			15' Lt.																	
49+22	V.S.P. Drain	8"	30'		15' R. & 15' L.		For Gr. See Profile Const. 2-Std. No. 1 Inlets.	6	2.1	30'		2						Encase U.S.P. in 5" 1-3-6 Concrete				
49+22 To 60+14	V.S.P. Drain	8"	1092'		17' Lt.		For Gr. See Profile Cement Pipe Joints	490						1092								
49+22 " 60+14	"	8"	1092'		17' Rt.		For Gr. See Profile " " "	490						1092								
50+50	Inlet	8"			17' Lt.																	
51+15	"	8"			17' Rt.																	
51+25	"	8"			17' Lt.																	
52+26	"	8"			17' Rt.																	
53+56	"	8"			17' Lt.																	
53+69	"	8"			17' Rt.																	
56+56	"	8"			17' Lt.																	
56+66	"	8"			17' Rt.																	
57+03	"	8"			17' Lt.																	
57+12	"	8"			17' Rt.																	
57+85	"	8"			17' Lt.																	
57+92	"	8"			17' Rt.																	
58+72	"	8"			17' R. & 17' L.																	
59+40	"	8"			17' Lt.																	
60+14	"	8"			17' R. & 17' L.																	
60+56	"	8"			17' R. & 17' L.																	
60+56 To 74+90	V.S.P. Drain	8"	1434'		17' Lt.		For Gr. See Profile Cement Pipe Joints	630						1434								
60+56 " 68+20	"	8"	764'		17' Rt.		" " " " " "	330						764								
62+05	Inlet	8"			17' Rt.																	
62+06	"	8"			17' Lt.																	
63+60	"	8"			17' L. & 17' R.																	
64+00	Inlet-U.S.P. & Tile	8"	360'		17' R. & 17' L.		For Gr. See Plan.	100	2.1	32'		2		330				Encase U.S.P. in 5" 1-3-6 Concrete.				
65+45	Inlet	8"			17' Rt.																	
65+70	"	8"			17' Lt.																	
65+90	"	8"			17' Rt.																	
67+20	"	8"			17' Rt.																	
67+55	"	8"			17' Lt.																	
68+20	"	8"			17' Rt.																	
69+30	"	8"			17' Lt.																	
74+90	Inlets-U.S.P. Drain	8"	28'		12' Rt. & 17' L.		8" U.S.P. encased in 5" 1-3-6 Concrete.	6	2.0	28'		2										
77+00	Inlets	8"			13' R. & 17' L.																	
77+00 To 91+24	V.S.P. Drain	8"	1424'		17' Lt.	30"	Cement Joints in Pipe	260						1424								
77+00 " 91+24	"	8"	1424'		13' Rt.	30"	" " " " " "	260														
79+40	Inlet	8"			17' Lt.																	
82+00	"	8"			13' R. & 17' L.																	
83+13	"	8"			17' Lt.																	
85+32	"	8"			17' Lt.																	
86+33	"	8"			17' Lt.																	
88+70	"	8"			13' R. & 17' L.																	
87+00 To 97+20	V.S.P. Drain	8"	20'		18' Rt.	30"		3		20'												
99+55 " 99+75	"	8"	20'		18' Lt.	30"		3		20'												
104+42 " 104+62	"	8"	20'		18' Rt.	30"		3		20'												
104+46 " 104+66	"	8"	20'		18' Lt.	30"		3		20'												
105+24 " 105+44	"	8"	20'		18' Lt.	30"		3		20'												
112+77 " 113+39	"	8"	62'		18' Lt.	30"		10		62'												
112+90 " 113+10	"	8"	20'		18' Rt.	30"		3		20'												
113+10 " 113+80	Tile Drain	8"	70'		18' Rt.	30"		11						70								
122+00	Inlet	8"			18' Rt.																	
122+00 To 134+50	Tile Drain	8"	1250'		14' Rt.		For Gr. See Profile.	280						1250								
134+50 " 137+00	"	12"	306'				For Location and Gr. See Plan & Profile	60														
161+80	U.S.P. Drain	8"	20'		18' Rt.	30"		3		20'												
164+34	"	8"	20'		18' Lt.	30"		3		20'												
165+85	"	8"	20'		18' Rt.	30"		3		20'												
167+03	"	8"	20'		18' Lt.	30"		3		20'												
170+36	"	8"	20'		18' Lt.	30"		3		20'												
189+00	"	8"	20'		18' Lt.	30"		3		20'												
191+55	"	8"	20'		18' Rt.	30"		3		20'												
193+25	"	8"	20'		18' Lt.	30"		3		20'												
201+55	"	8"	20'		18' Lt.	30"		3		20'												
202+35	"	8"	20'		18' Rt.	30"		3		20'												
209+53	"	8"	20'		18' Lt.	30"		3		20'												
232+34	"	8"	20'		18' Lt.	30"		3		20'												
233+60	"	8"	24'		18' Rt.	30"		4		24'												
243+02	"	8"	20'		18' Lt.	30"		3		20'												
249+20	"	8"	24'		18' Rt.	30"		4		24'												
256+30	"	8"	20'		18' Lt.	30"		3		20'												
263+37 " 263+97	Tile Drain	12"	60'		18' Rt.			12						60								
Total of Quantities								3173	9.7	714	51	5806	4559	360								

SUMMARY - ROADWAY & PAVEMENT

Type	Excavation	Concrete	Bituminous	Gravel	Asphalt	Base	Subgrade
A	160.47	262.95	517.33	29.74	29.74	29.74	29.74
B	160.47	262.95	517.33				
C	156.62	262.95					
D	168.07	262.95					

81920120