

COUNTY HIGHWAY

KILLBUCK - SHREVE ROAD

ROAD N<sup>o</sup>311 SEC. C PET. BY RES.

HOLMES COUNTY

MONROE TWP.

JAN. 1922

INDEX

Title Page  
Typical Cross Section  
Plans and Profile  
Cross Sections  
Summary Sheet

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 not require the closing to traffic of the highway and that detours will not be provided as shown by the plan and estimates.

Approved: \_\_\_\_\_  
Date, \_\_\_\_\_ County Surveyor

We, the Commissioners of Holmes County hereby approve these plans, and certify that the right-of-way, 60 wide is available for the construction, maintenance & repair of above highway.

Date, \_\_\_\_\_ County Commissioners

CONVENTIONAL SIGNS

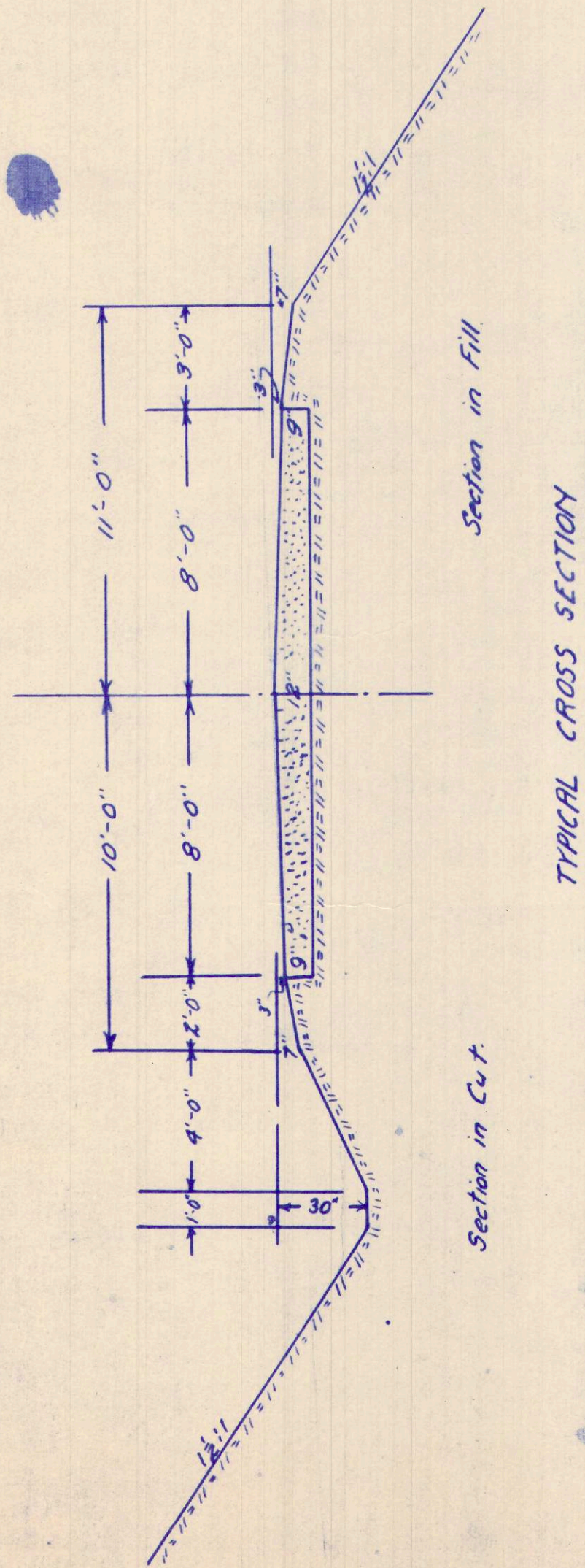
- State line
- County line
- Township line
- Section line
- Property line not fence
- Center line
- Village line
- Fence line
- Telephone
- Steam railroad

LOCATION PLAN

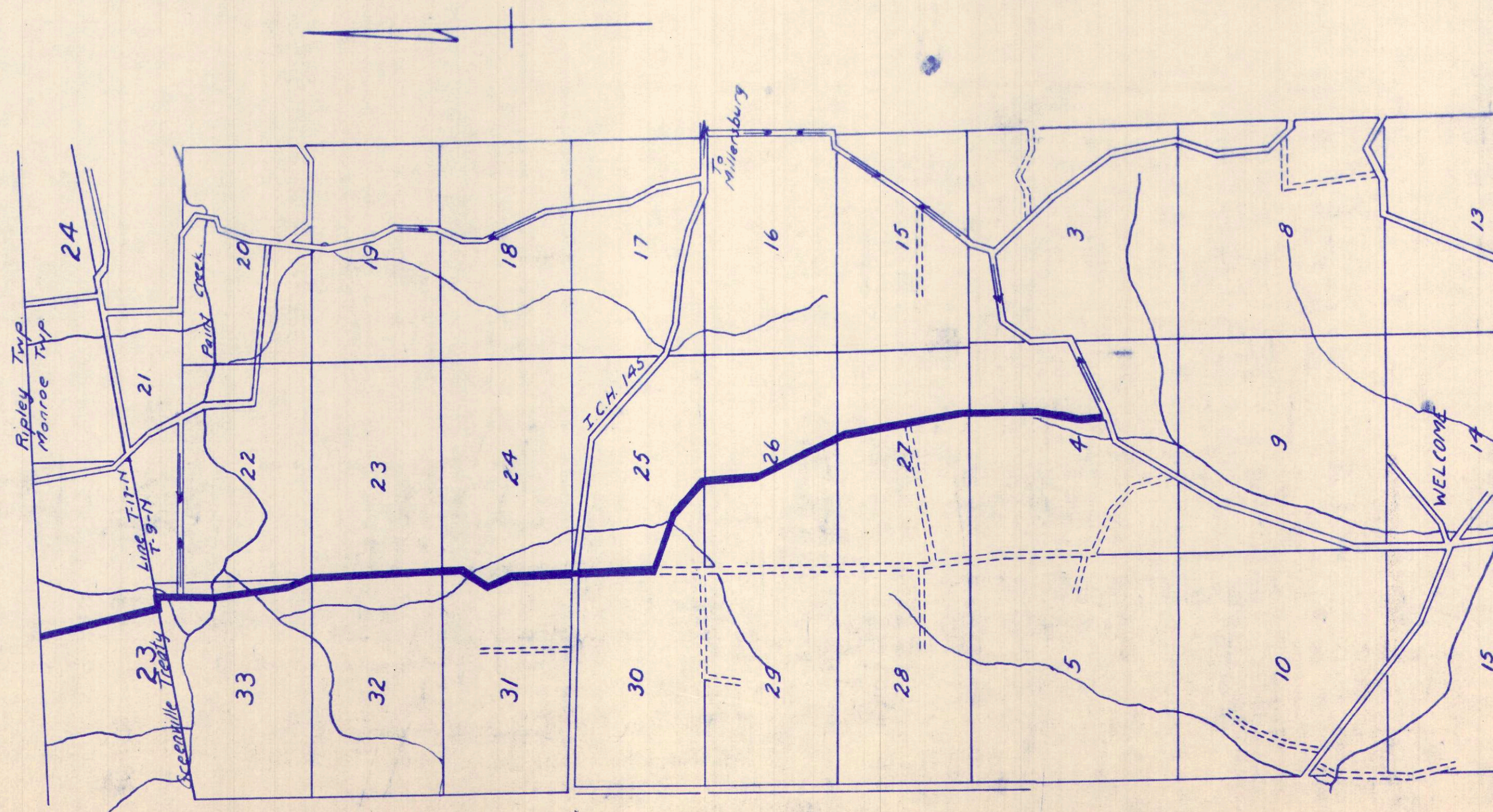
PORTION TO BE IMPROVED  
DETOURS SHOWN THUS



HOLMES COUNTY HIGHWAY  
 SEC. C. KILLBUCK - SHREVE ROAD  
 COUNTY ROAD N<sup>o</sup> 311+326 RESOLUTION  
 MONROE TOWNSHIP



TYPICAL CROSS SECTION



LOCATION PLAN  
 Scale 4" = 1 mile.  
 Portion to be Improved  
 Delour shown thus: → ←

*Roadway Quantities*

23932 cu.yds. excavation not classified  
 487 cu.yds. borrow fill Sta 48-55  
 14593 ft. finishing slopes and ditches  
 80 ft. 5" v.s. pipe underdrain, gravel cover  
 60 ft. 12" v.s. pipe in place  
 48 " 10" v.s. pipe taken up and relaid  
 36 " 4" " " underdrain gravel cover  
 1.3 cu.yd. 1-2-4 concrete in place  
 30 pounds steel  
 16 ft. corrugated pipe 10"  
 clearing and grubbing roadway

*PAVEMENT Quantities*

20143 sq.yds gravel pavement 12" & 8" sides  
 33645 " " " " 12" & 12" "  
 80 cu.yds gravel for approaches  
 60 cu.yds stone sub-base.

51 cu. Channel Exc. Sta. 28+00. Left.

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

Date: \_\_\_\_\_ Approved: \_\_\_\_\_  
 County Surveyor

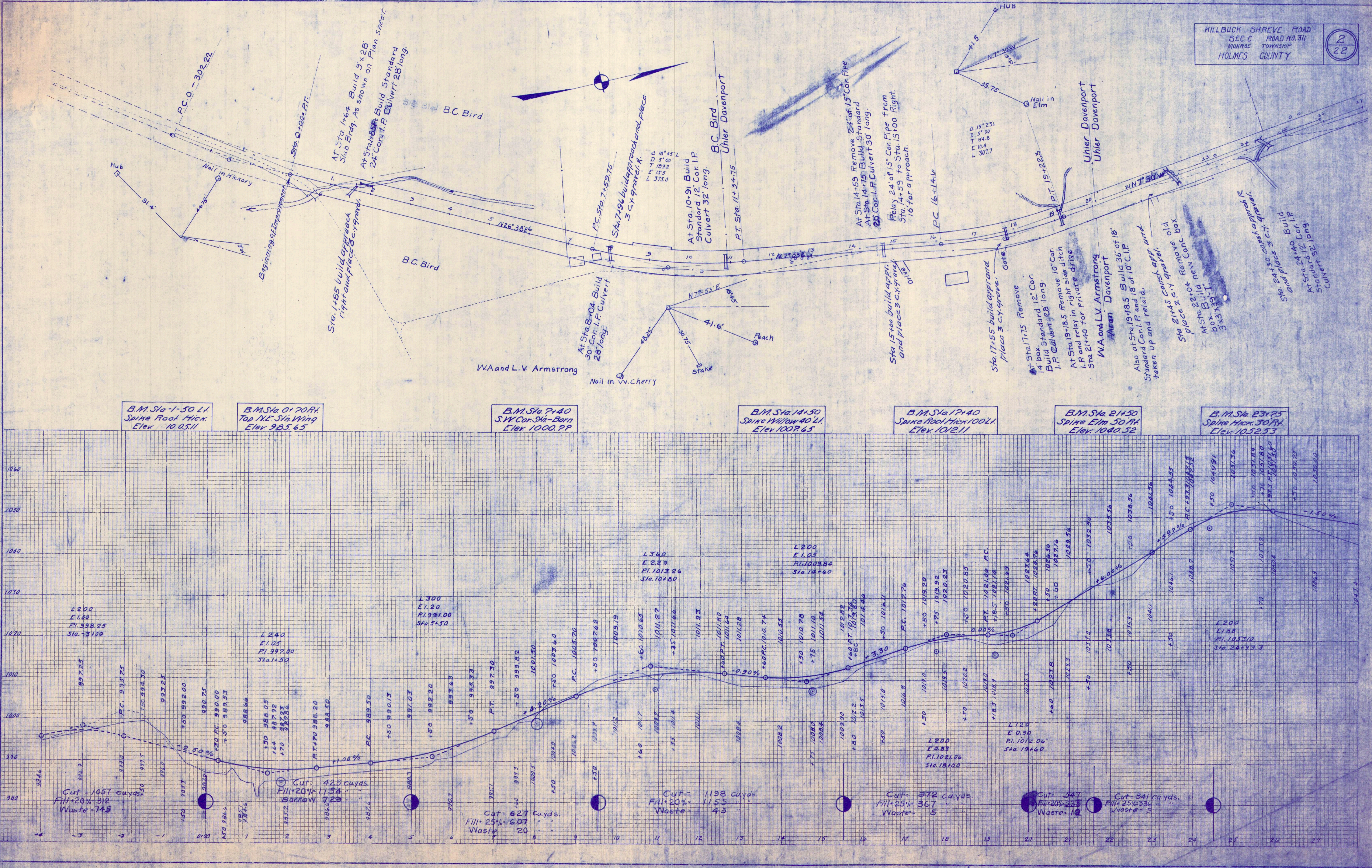
We, the Commissioners of Holmes County, Ohio, hereby approve these plans and certify that the right of way is available for the construction of the above highway

Signed: \_\_\_\_\_  
 Date: \_\_\_\_\_  
 Commissioners of Holmes County, Ohio



PLAN  
 SURVEYED BY DATE  
 PLOTTED BY  
 CHECKED BY  
 NO. OF W.A. CHECKED

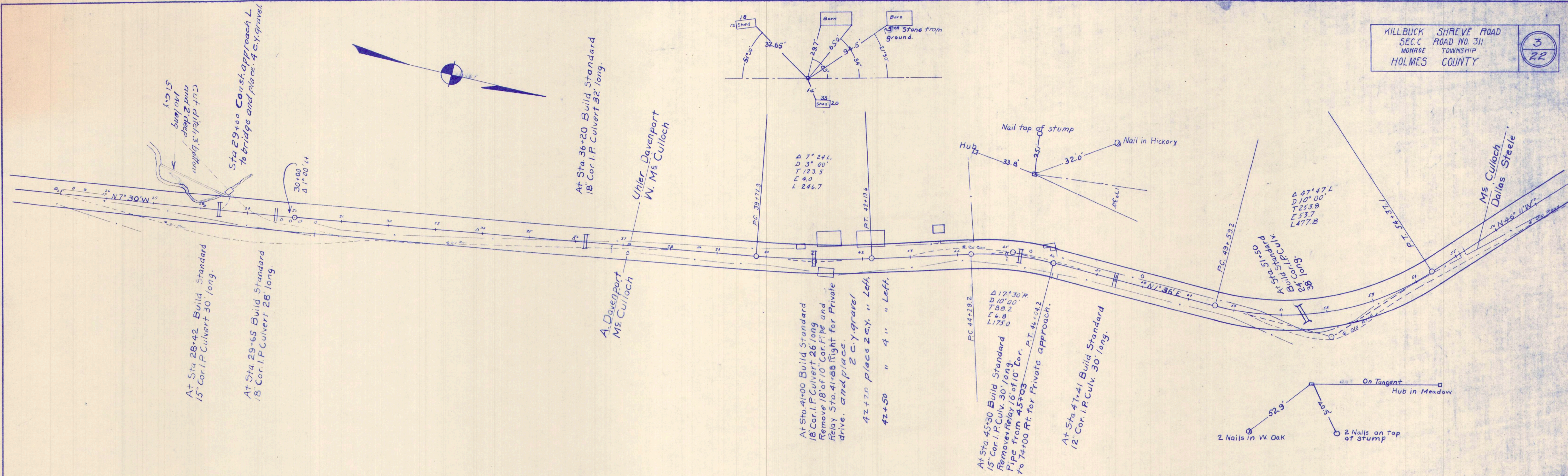
PROFILE  
 SURVEYED BY DATE  
 PLOTTED BY  
 CHECKED BY  
 NO. OF W.A. CHECKED





FINAL SURVEY  
 SURVEY PLOTTED  
 NOTE BOOK AREAS CHECKED

ORIGINAL SURVEY  
 SURVEY PLOTTED  
 NOTE BOOK AREAS CHECKED



B.M. Sta 30+40  
 Spike Cor. Fence Post 30" Ht.  
 Elev. 1061.17

B.M. Sta 37+40  
 Nail Roof Hic. 50" Lt.  
 Elev. 1022.29

B.M. Sta 43+65  
 NE. Cor. End Conc. Walk  
 Elev. 1026.29

B.M. Sta 47  
 Spike Hic. 30" Lt.  
 Elev. 1022.79

B.M. Sta 51+60  
 R.P. Spikes 36" Oak Pk.  
 Elev. 1081.09

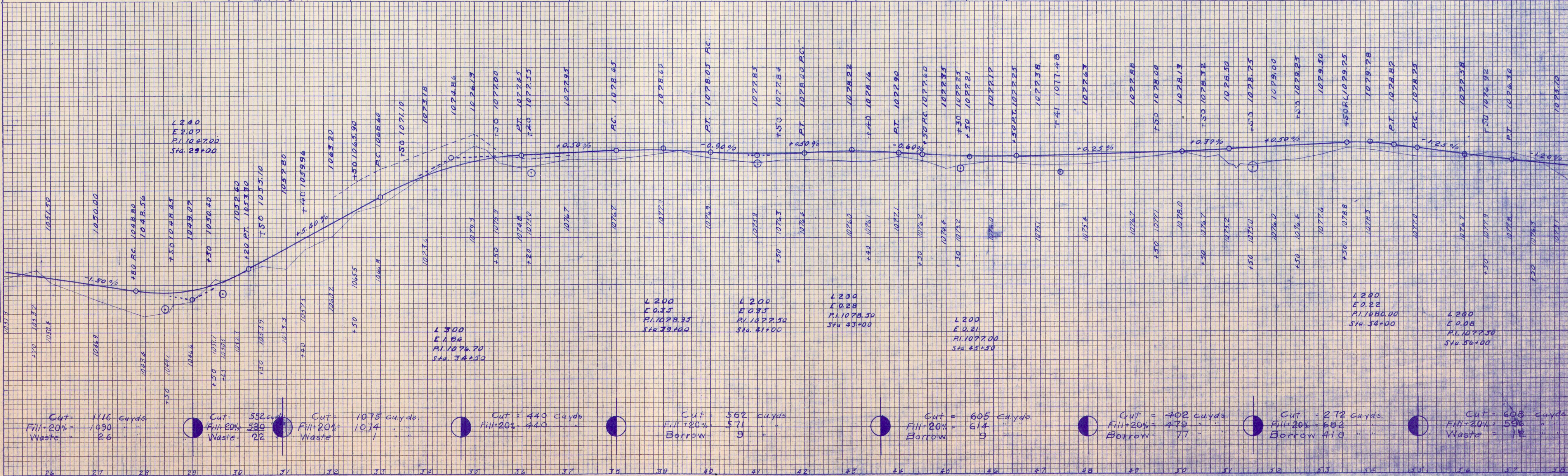
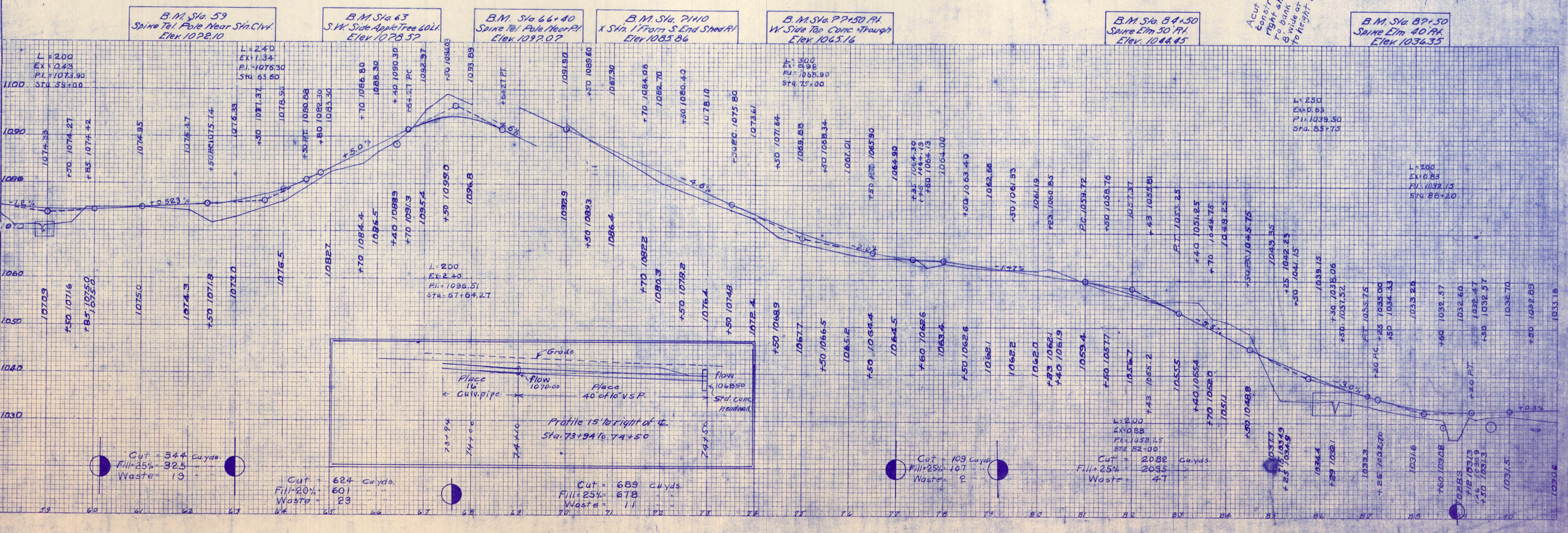
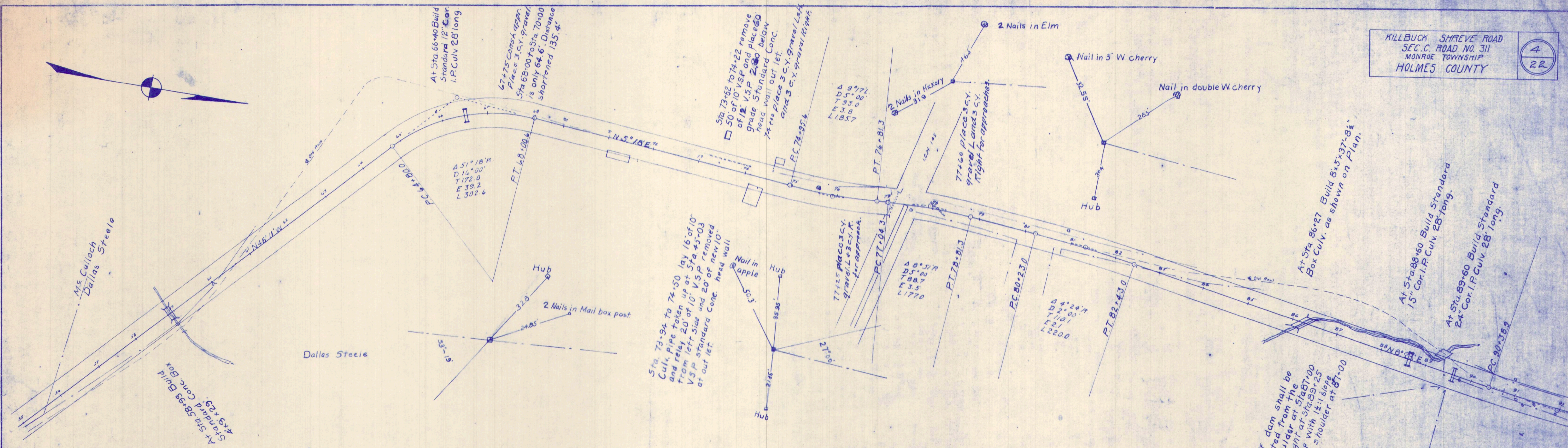


PLATE 1 - CROSS SECTION O.P.R. W.R.E. STANDARD  
 KEUFFEL & ESSER CO., NEW YORK



PLAN	DATE
BY	
REVISIONS	
NO.	
NOTE BOOK	
NO.	
REVISIONS	
NO.	
NOTE BOOK	
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REVISIONS	
NO.	
NOTE BOOK	
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PROFILE	DATE
BY	
REVISIONS	
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NOTE BOOK	
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REVISIONS	
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NOTE BOOK	
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REVISIONS	
NO.	
NOTE BOOK	
NO.	



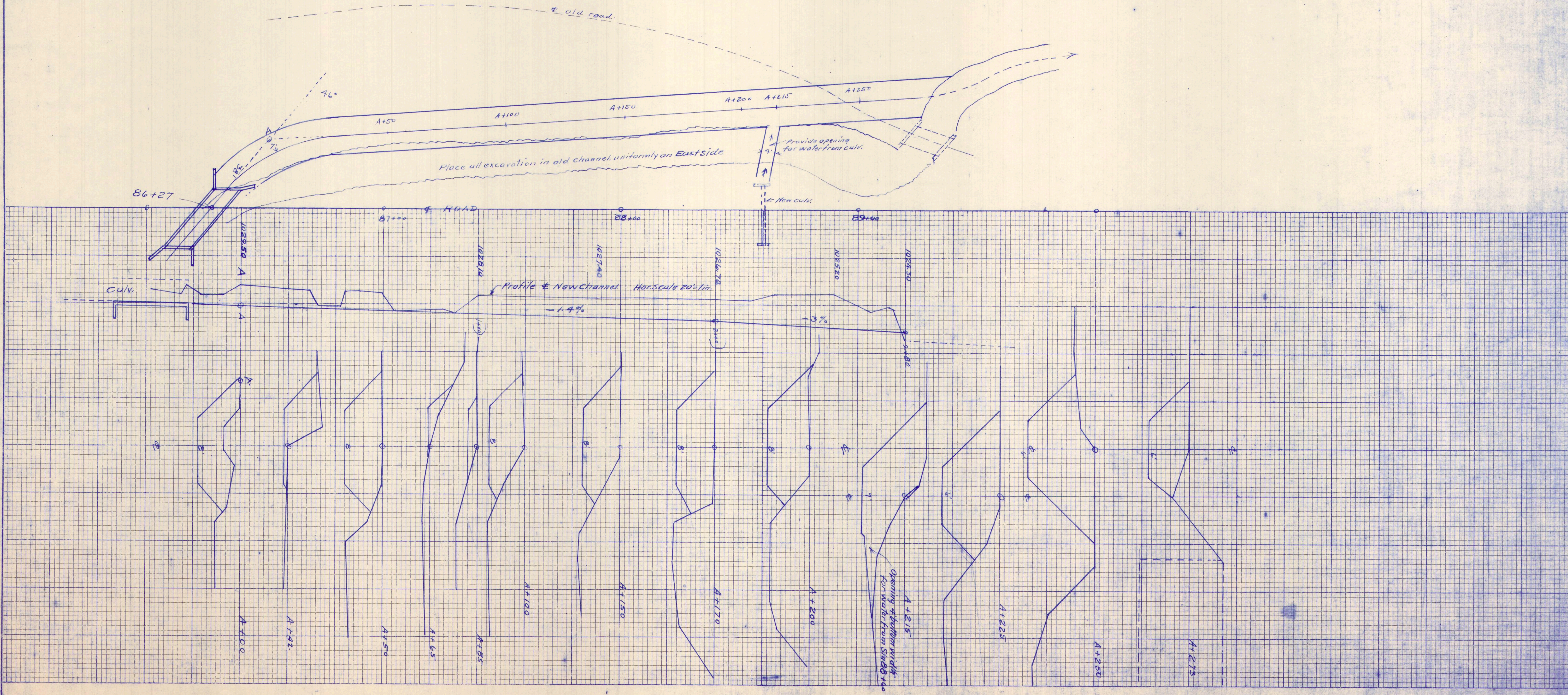


PLAN	SURVEYED	DATE
	PLOTTED	BY
	ALIGNED CHECKED	
	BY	
	NO.	

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	ALIGNED CHECKED	
	BY	
	NO.	

PLAN FOR NEW CHANNEL  
 STA. 86+27

PLAN 20"=1 inch. Profile Hor. 20'-1 in Ver. 10'-1 in.  
 Excv. 422 Cu. yds.



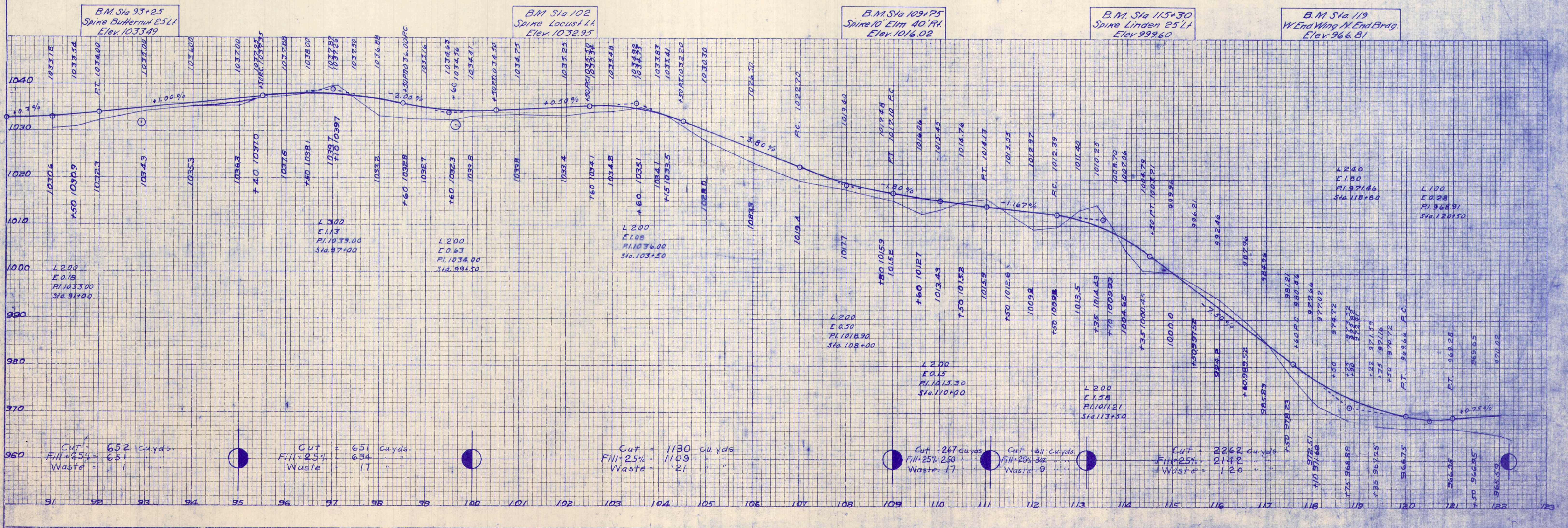
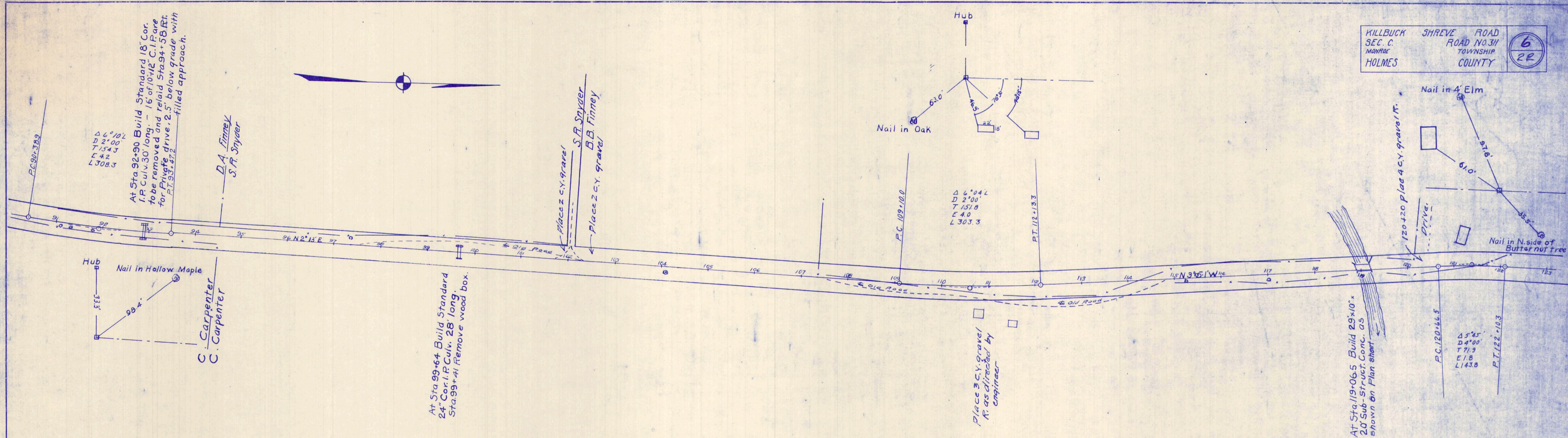


PLAN

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PROFILE

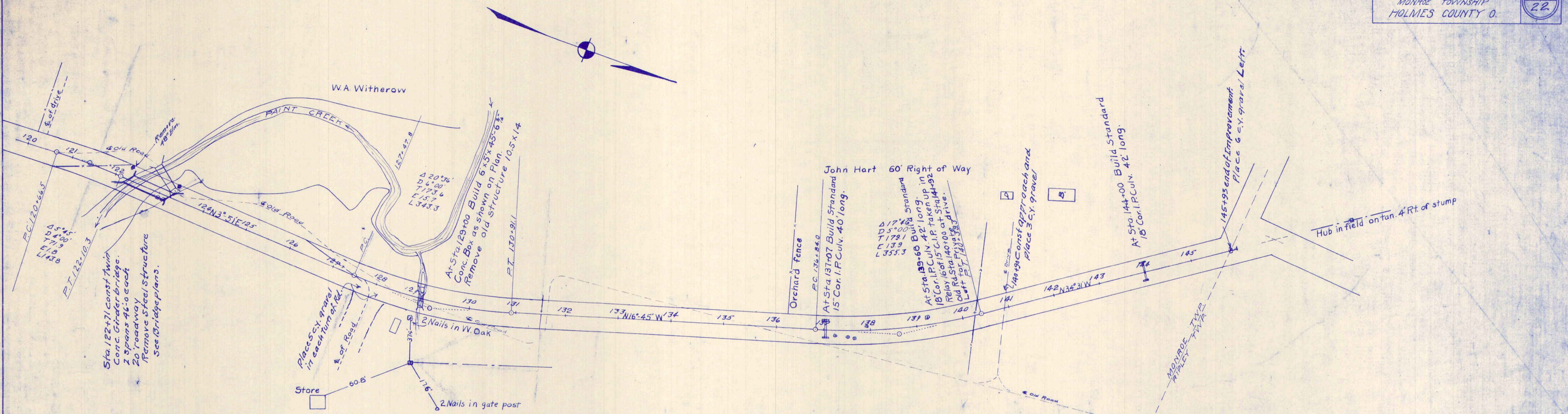
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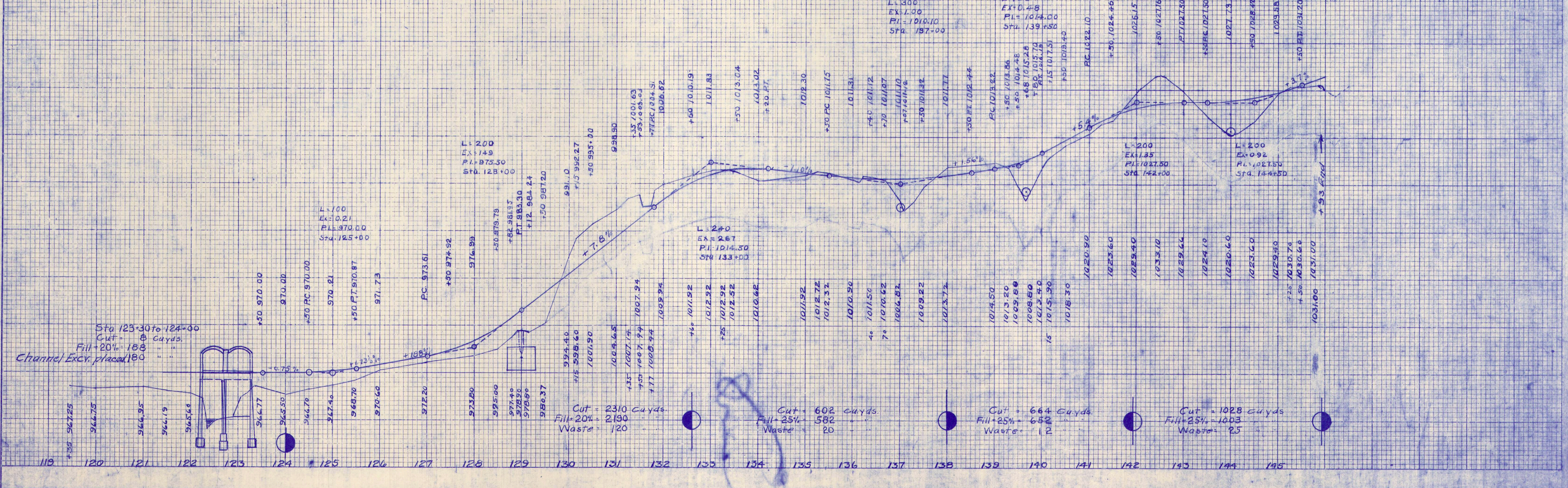


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 NOTE BOOK NO.  
 RT. OF WAY CHECKED.

PROFILE  
 SURVEYED BY DATE  
 PLOTTED BY  
 CHECKED BY  
 NOTE BOOK NO.  
 S. M. S. NOTES  
 STRUCTURE NOTATION CH. 10.



B.M. Sta. 120+95 Top N. Side Wall Conc. Steps Elev. 969.95  
 B.M. Sta. 122+50 S. End SW Wing Brdg. Elev. 970.52  
 B.M. Sta. 128+50 Ft. Front Edge Base Gas. Sta. Elev. 975.18  
 B.M. Sta. 133 Spine 18 Maple 80' L. Elev. 102.24  
 B.M. Sta. 137+60 Spine Apple 50' L. Elev. 104.74  
 B.M. Sta. 141+40 Spine Walnut 100' L. Elev. 102.74  
 B.M. Sta. 146 L. 2 Spines Tel. Pole Elev. 102.20





DATE \_\_\_\_\_  
 BY \_\_\_\_\_  
 FINAL SURVEY PLOTTED \_\_\_\_\_  
 SURVEY PLOTTED \_\_\_\_\_  
 NOTE BOOK NO. \_\_\_\_\_  
 AREAS CHECKED \_\_\_\_\_

DATE \_\_\_\_\_  
 BY \_\_\_\_\_  
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 SURVEY PLOTTED \_\_\_\_\_  
 NOTE BOOK NO. \_\_\_\_\_  
 AREAS CHECKED \_\_\_\_\_

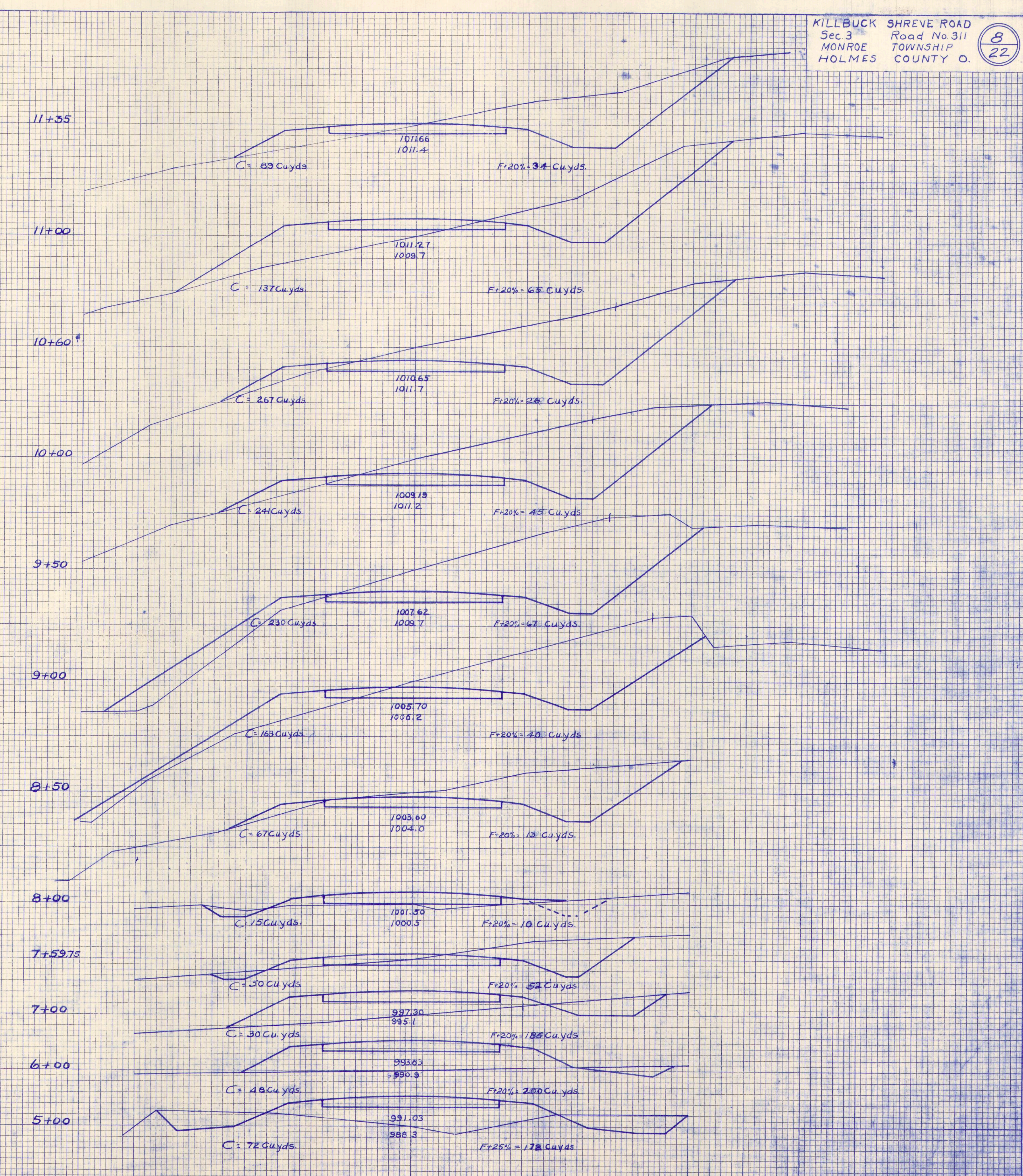
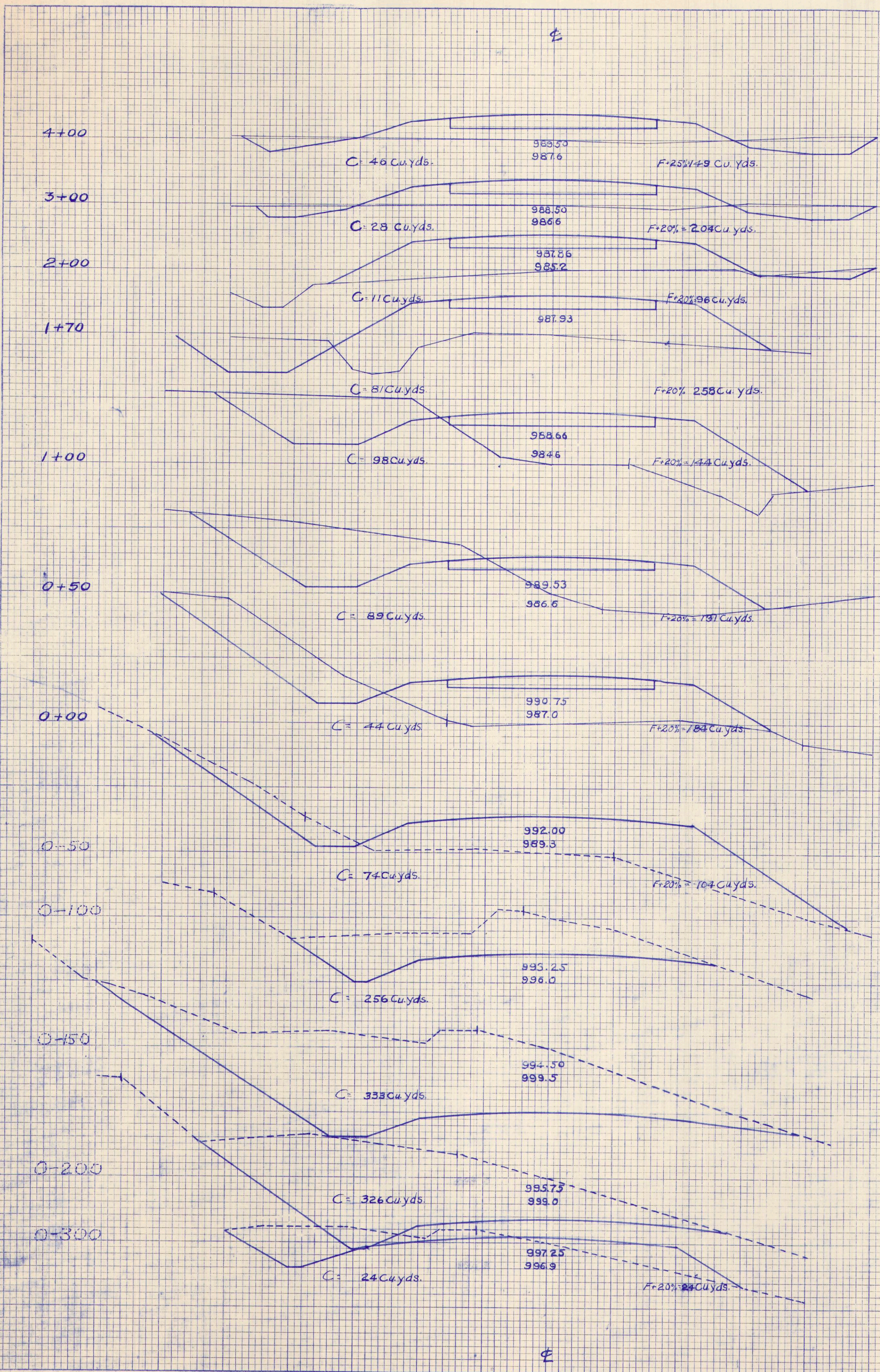


PLATE 3 - CROSS SECTION S. P. R. STANDARD



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 AREAS CHECKED

ORIGINAL SURVEY PLOTTED  
 NOTE BOOK TEMPLATE  
 AREAS CHECKED

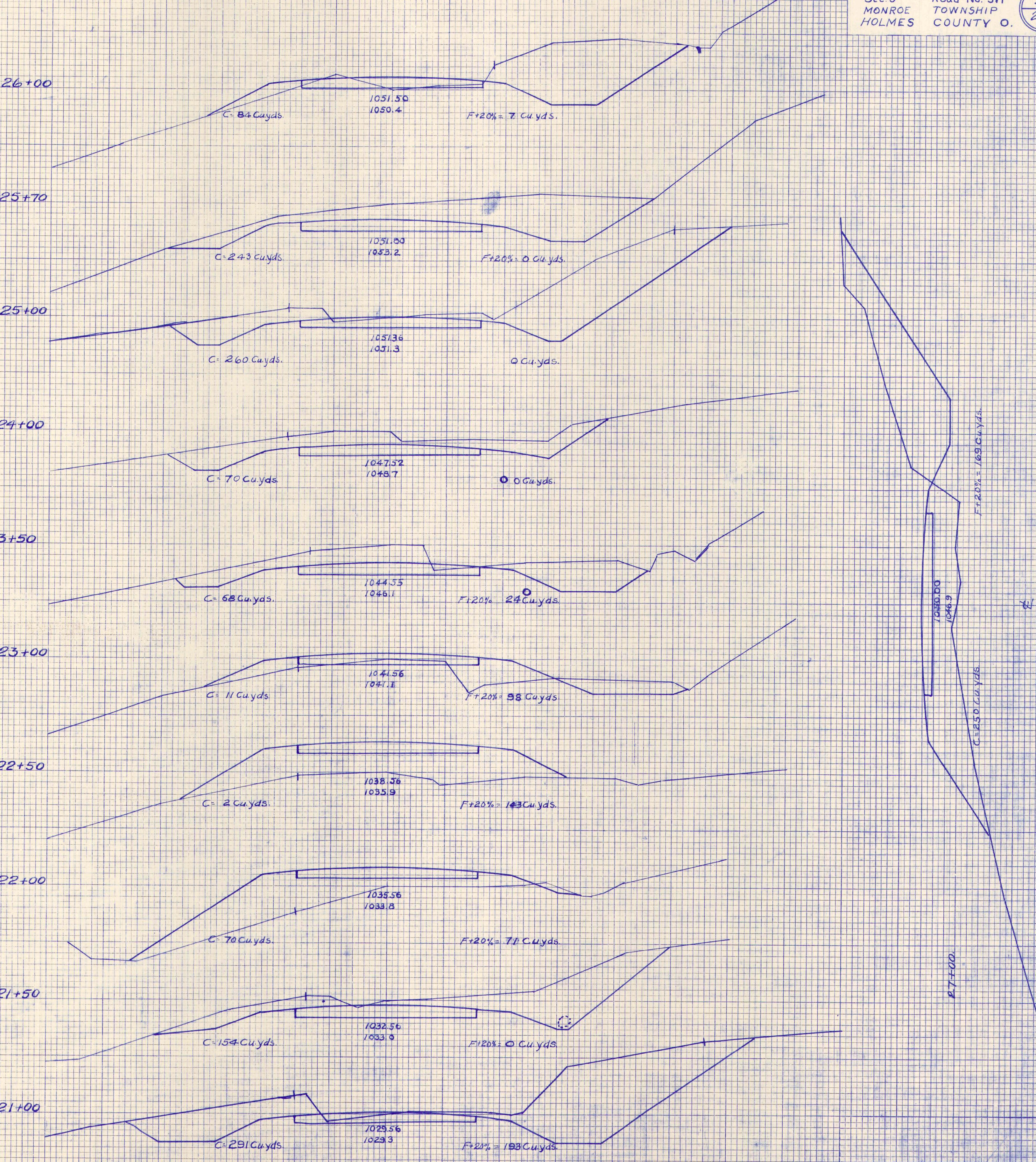
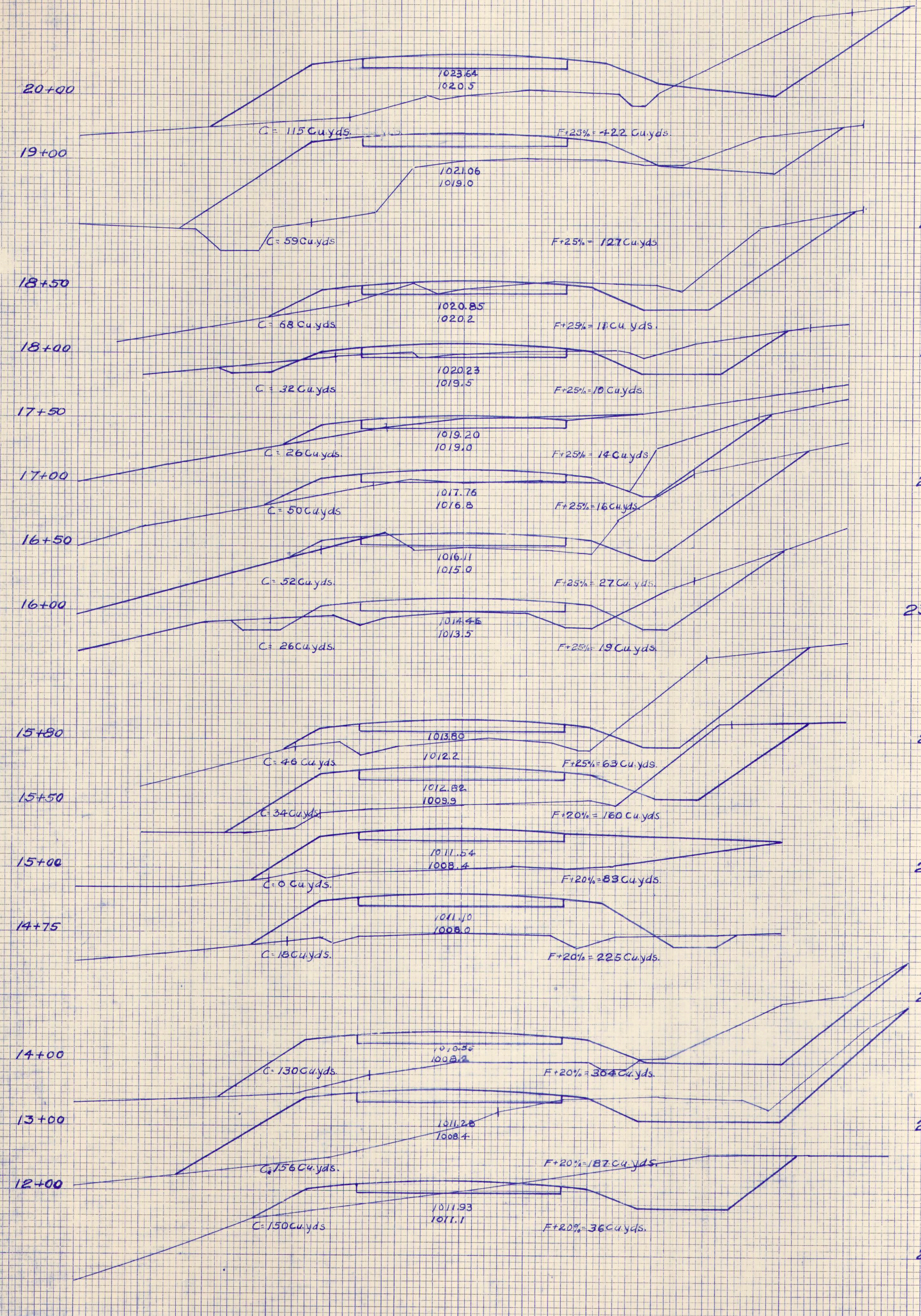
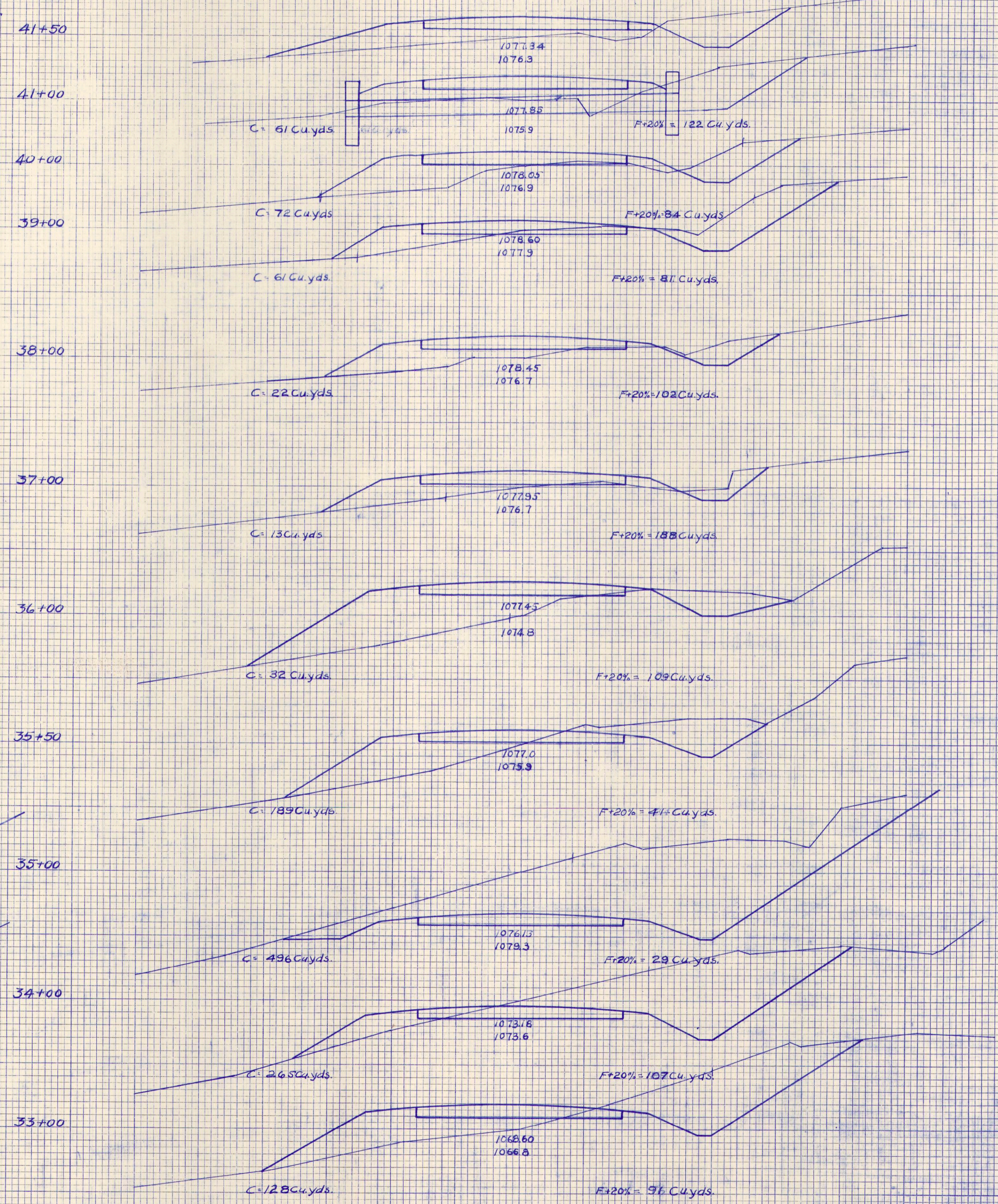
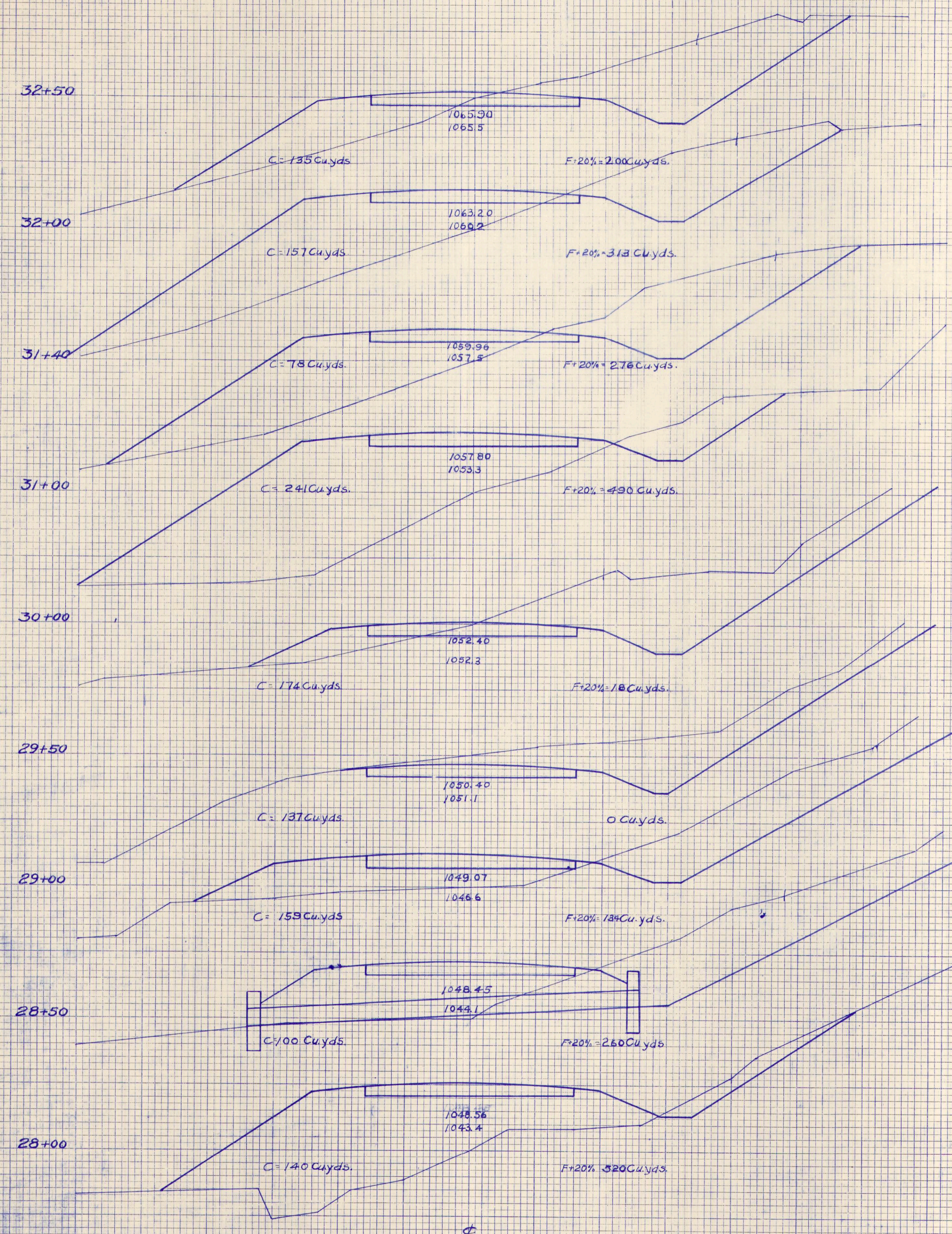


PLATE 3 - CROSS SECTION S. P. R. STANDARD



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 SURVEY PLOTTED AREAS CHECKED  
 NOTE BOOK NO.

ORIGINAL SURVEY PLOTTED AREAS CHECKED  
 SURVEY PLOTTED AREAS CHECKED  
 NOTE BOOK NO.





FINAL SURVEY  
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 NOTE BOOK NO.  
 TEMPLATE  
 AREAS CHECKED

ORIGINAL SURVEY  
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 DATE  
 NOTE BOOK NO.  
 TEMPLATE  
 AREAS CHECKED

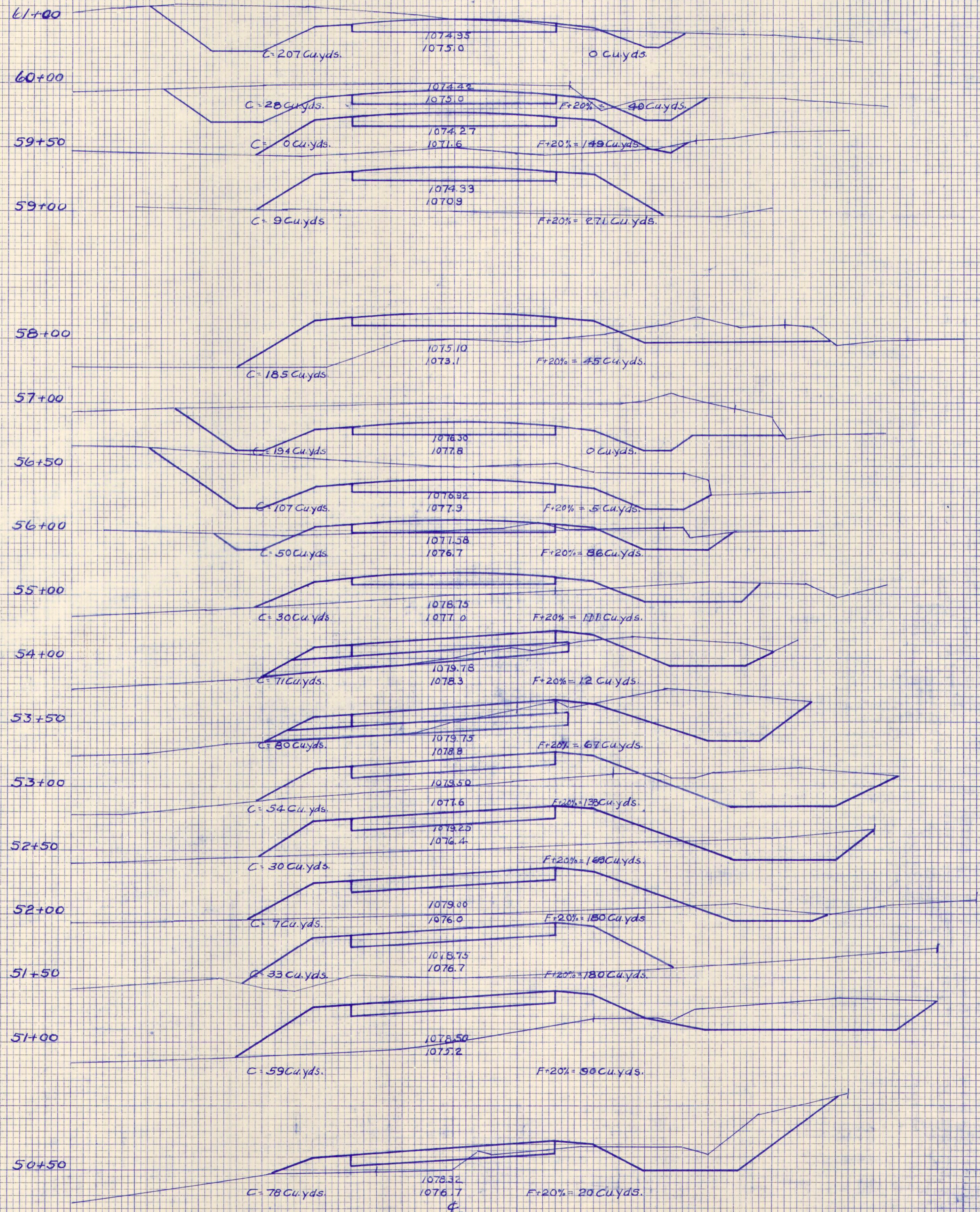
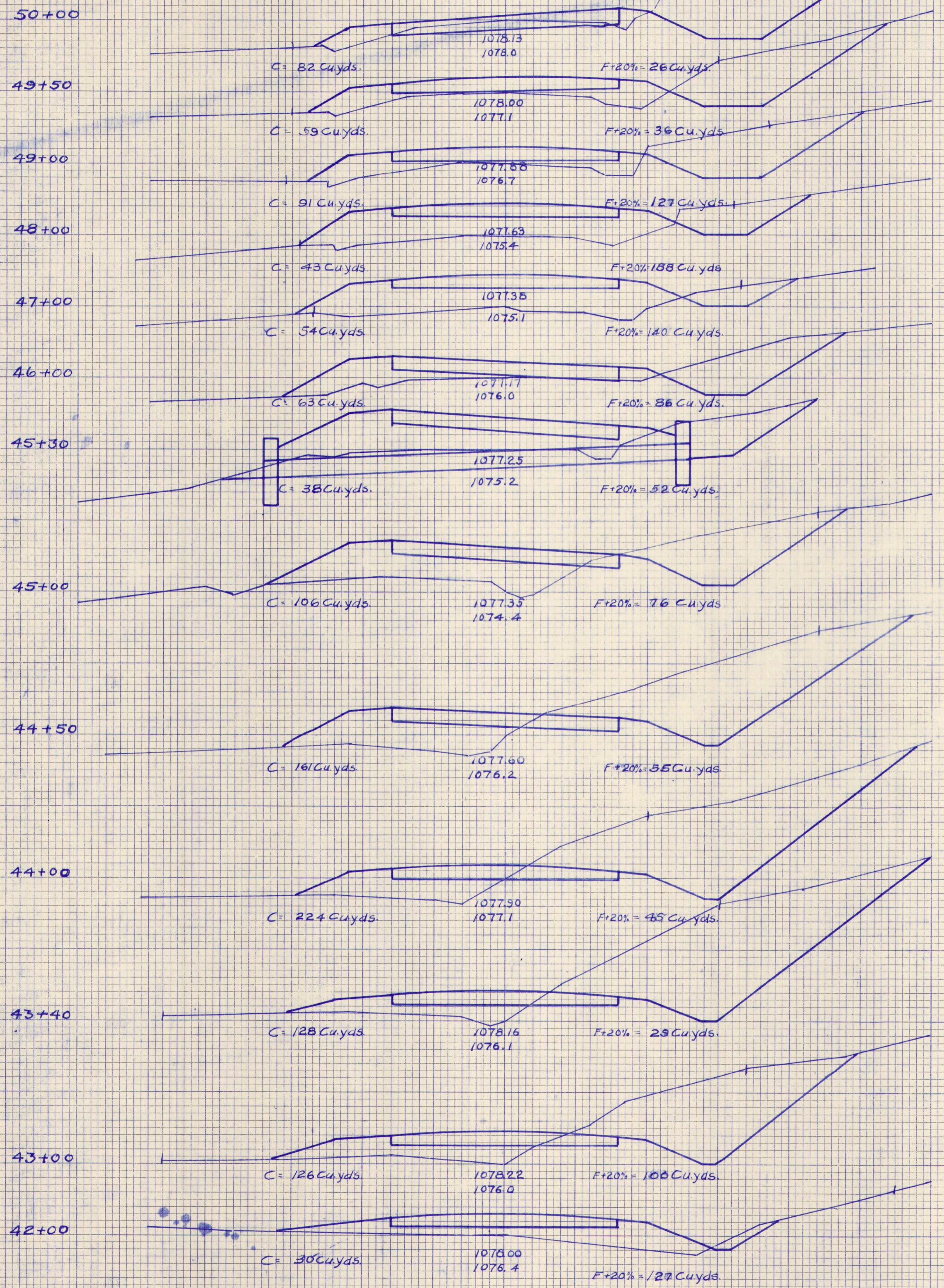
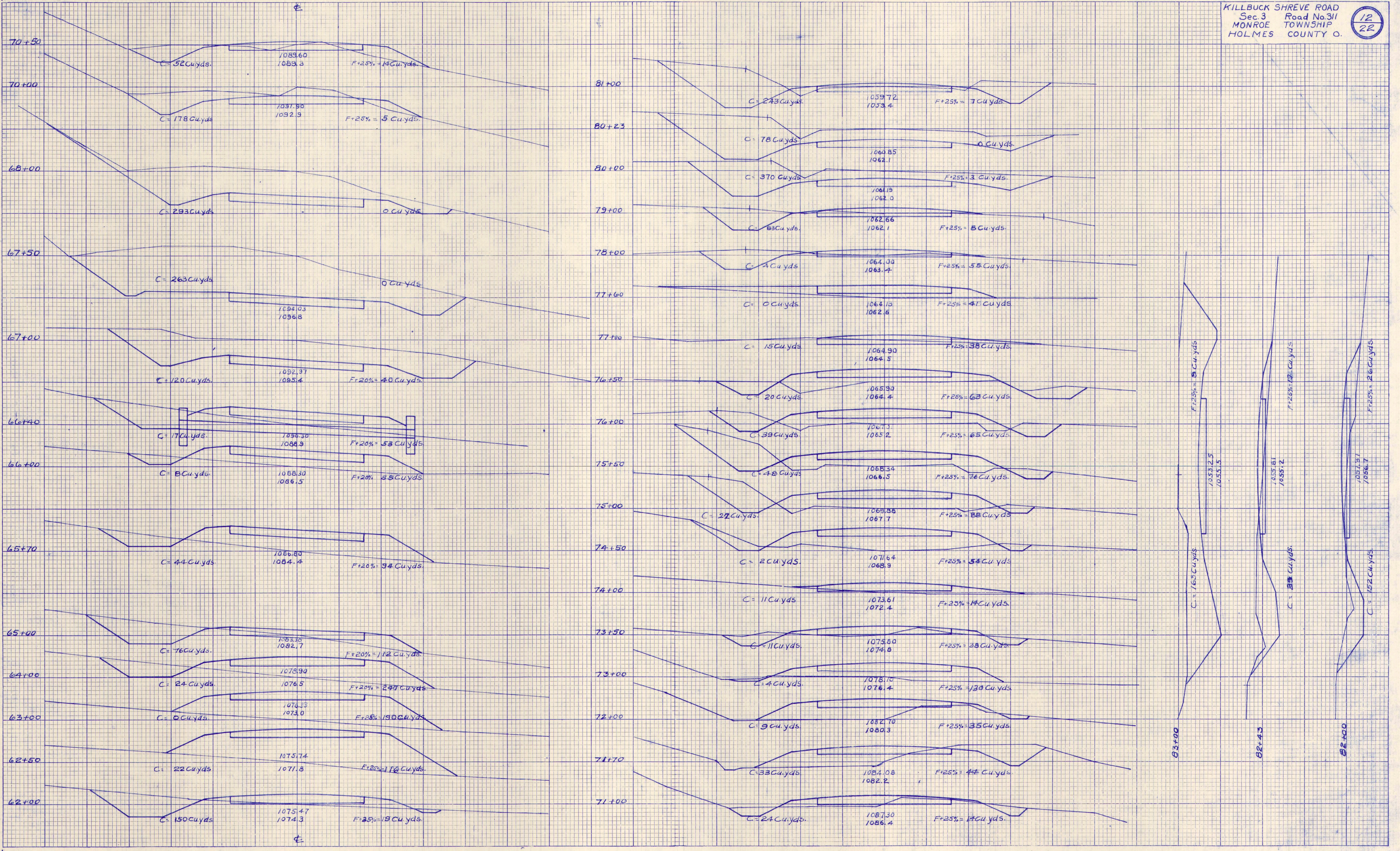


PLATE 3 - CROSS SECTION R. P. R. STANDARD



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 AREA CHECKED

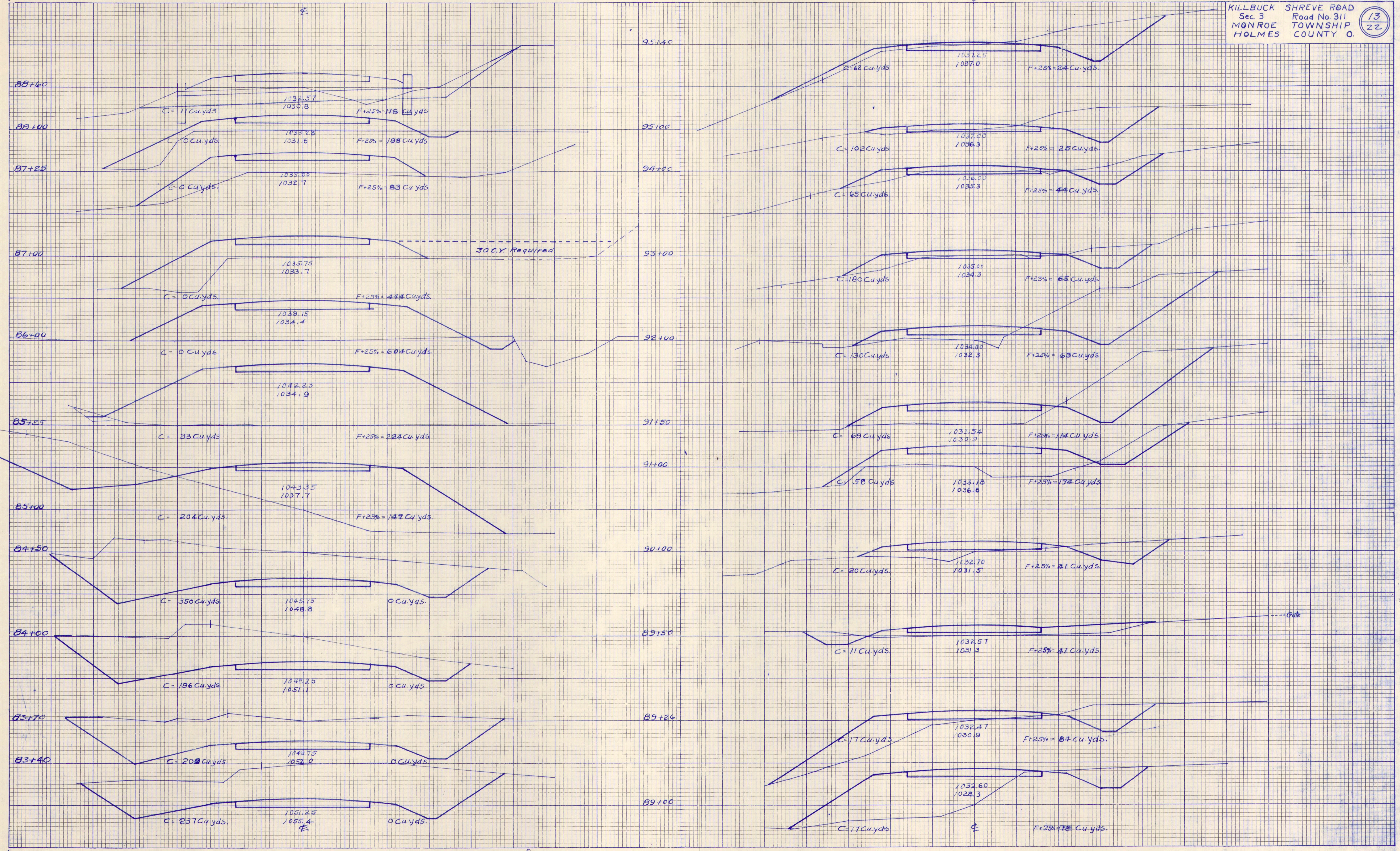
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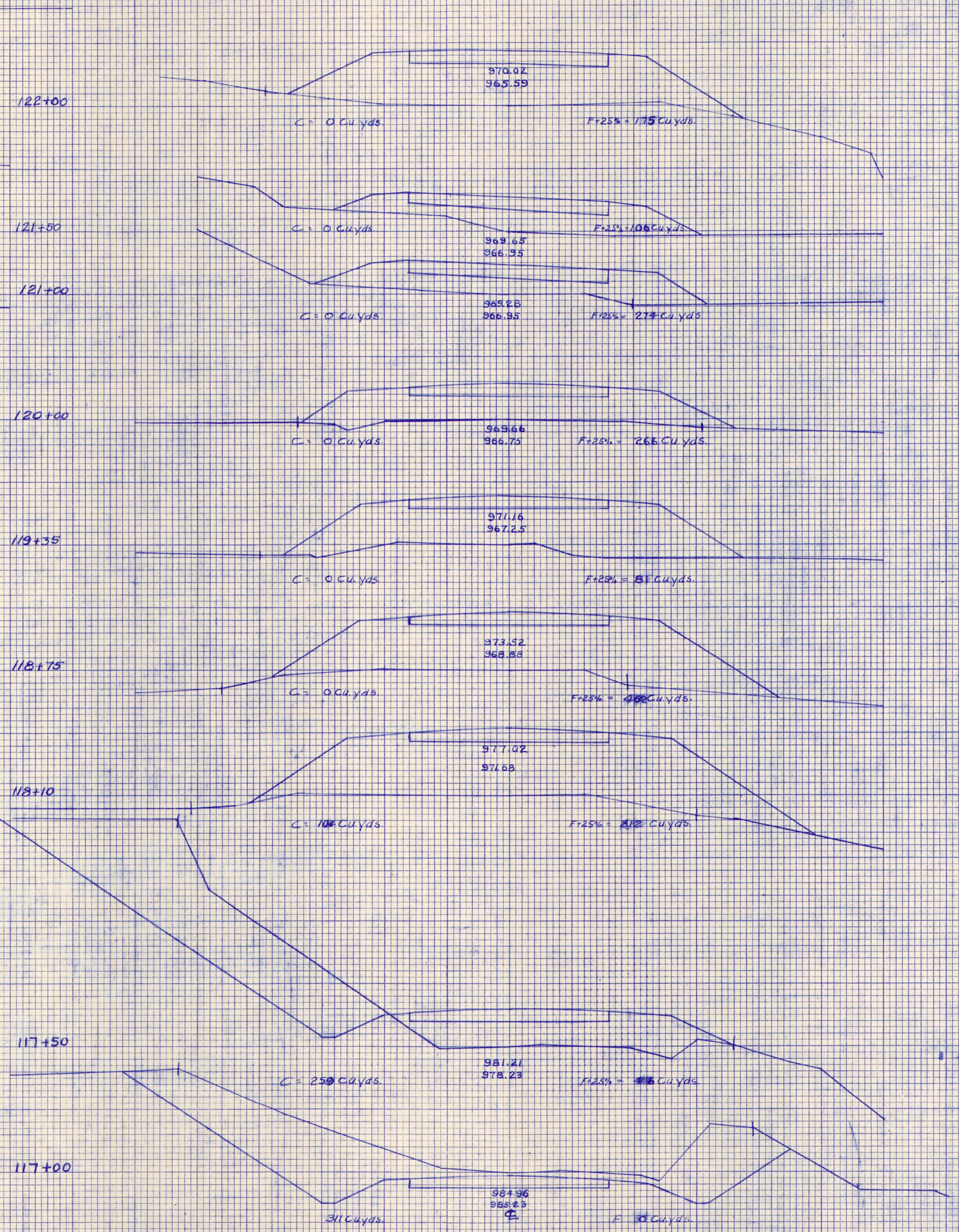
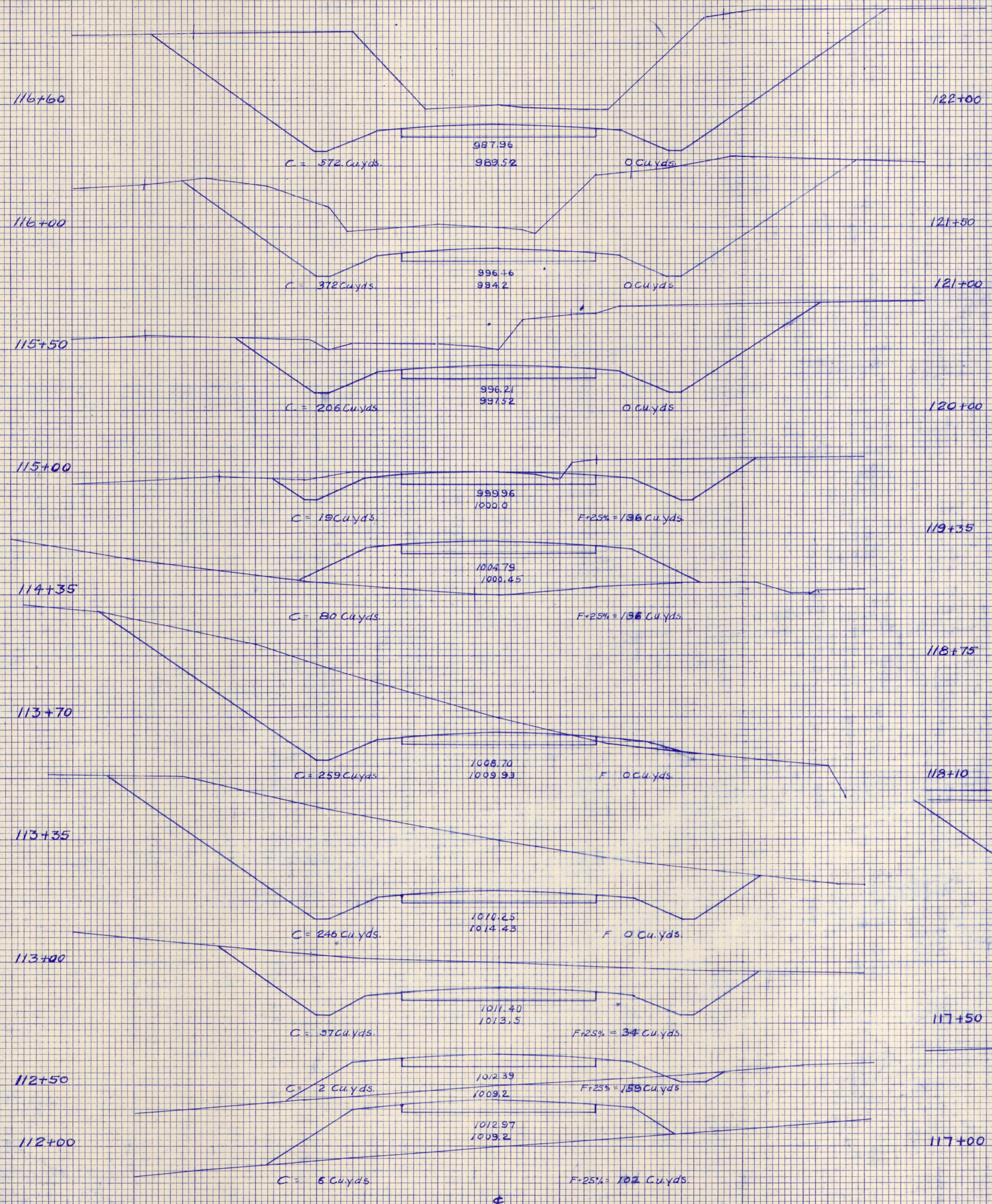
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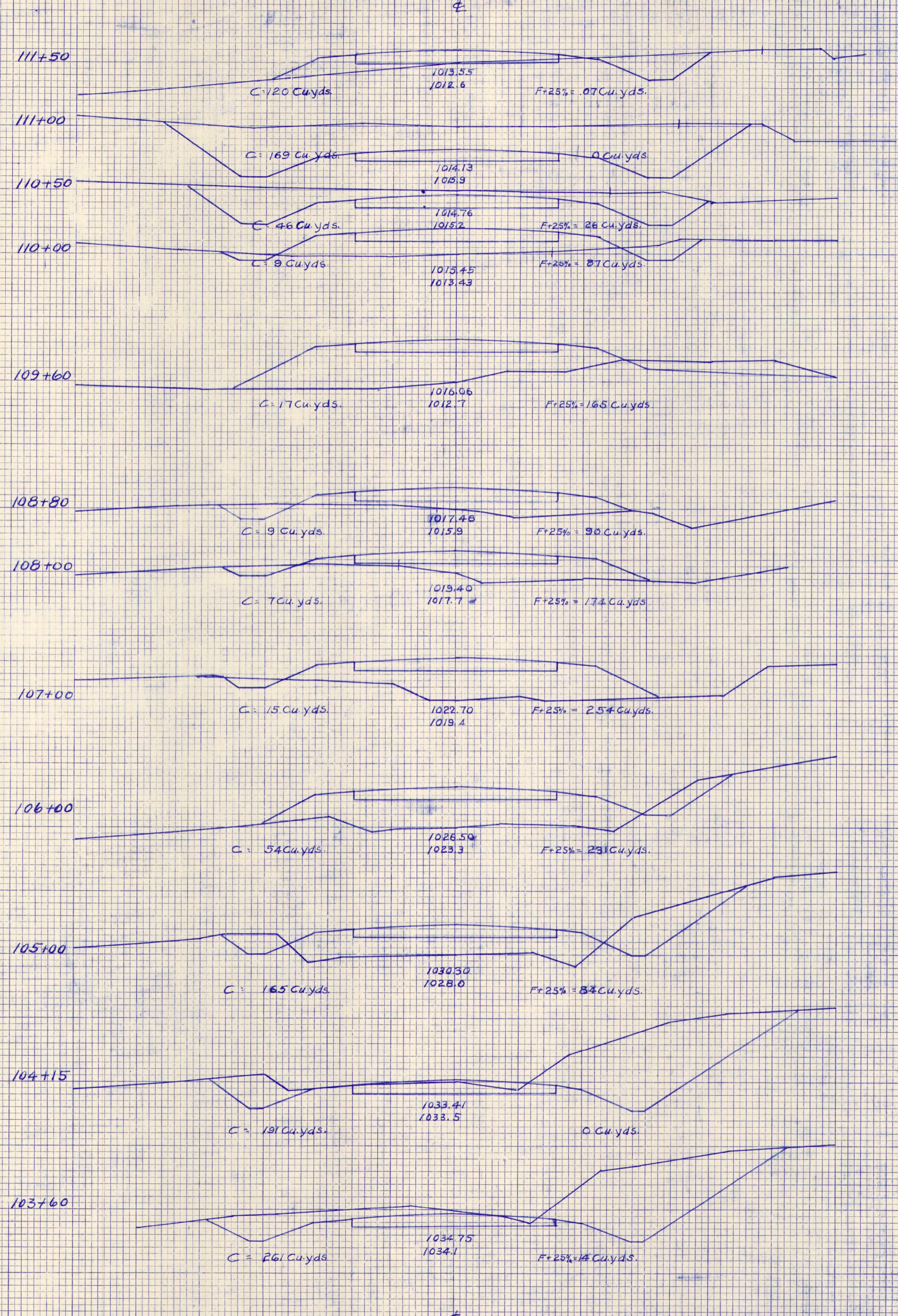
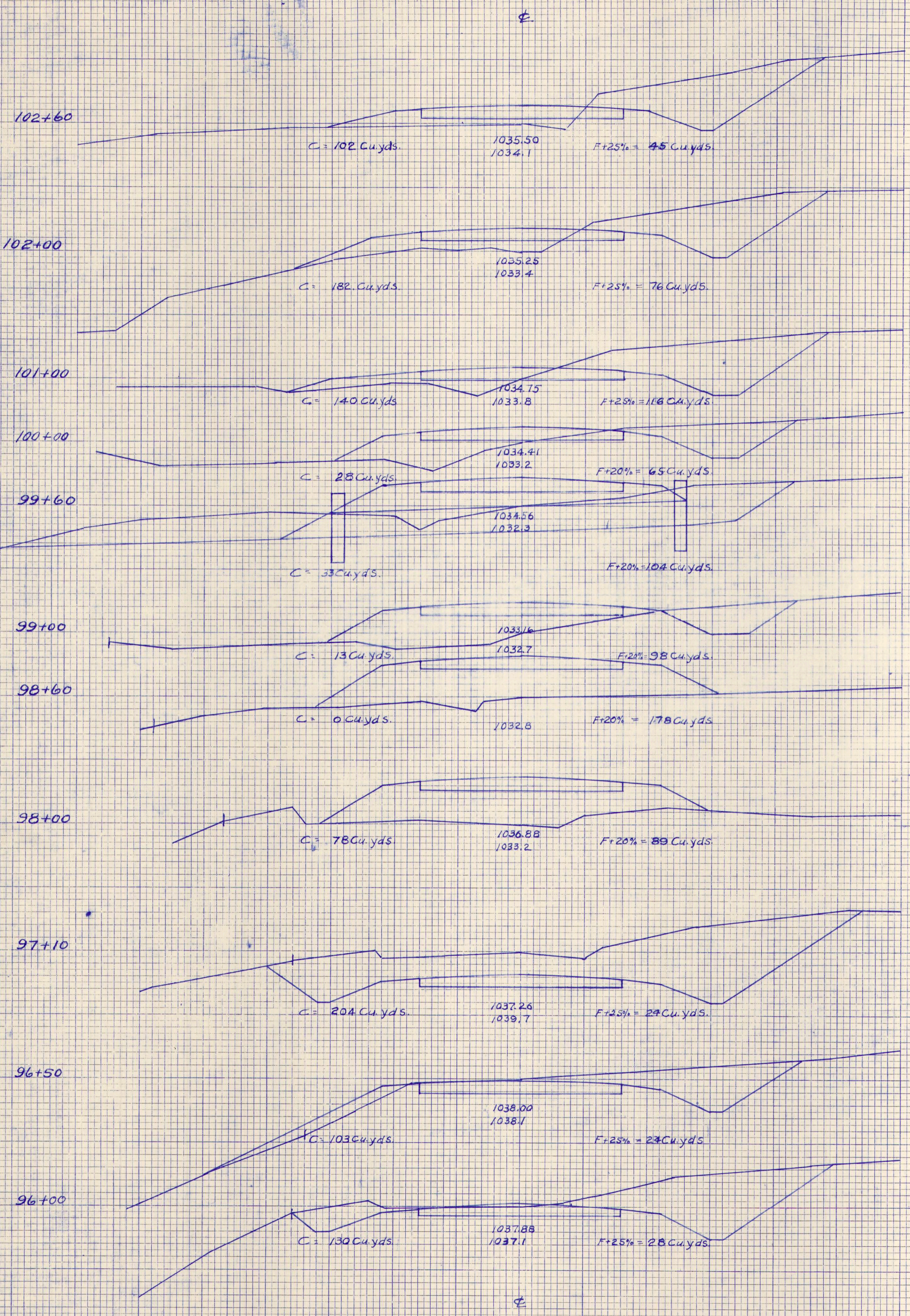


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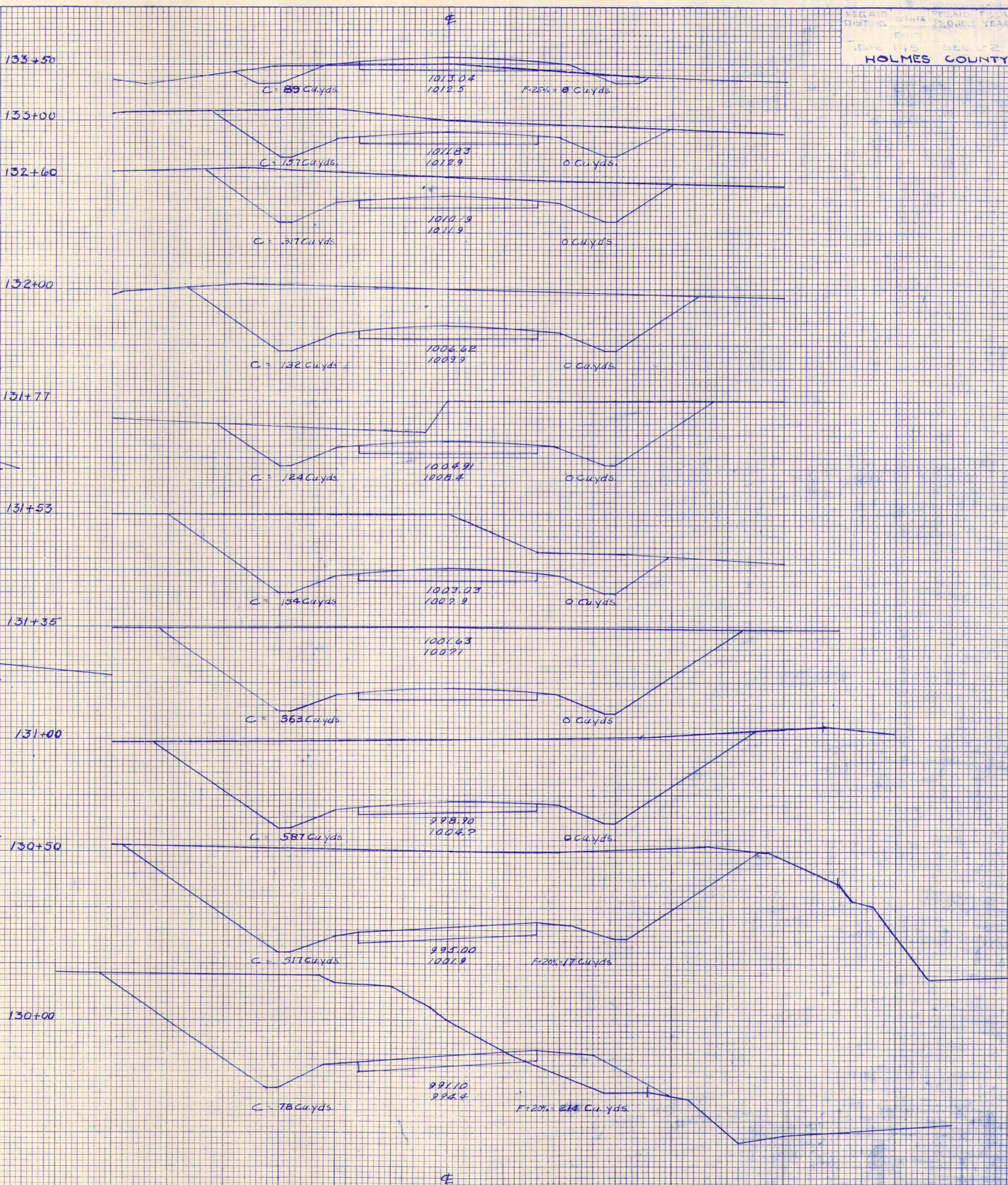
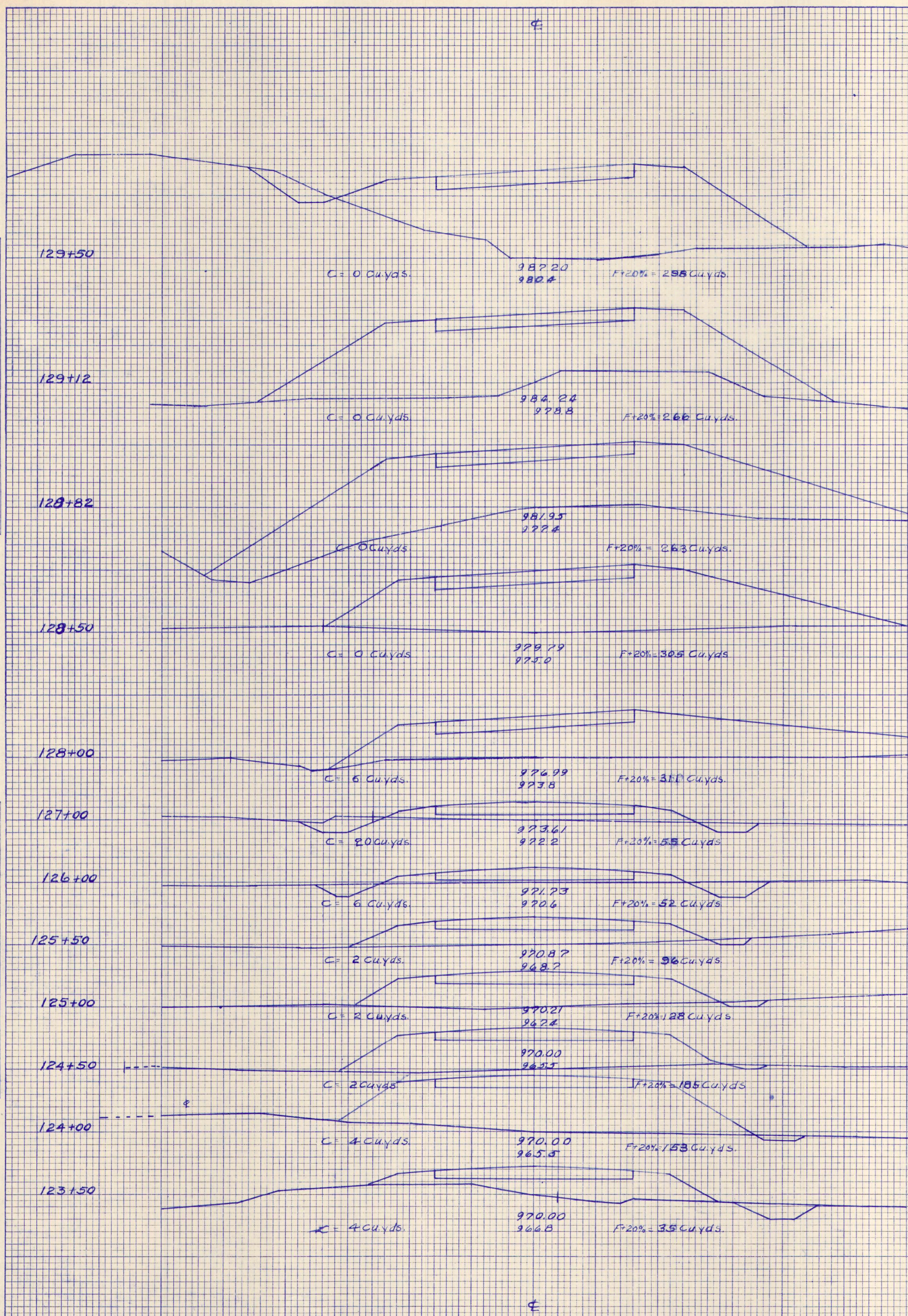
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FINAL SURVEY  
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ORIGINAL SURVEY  
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FINAL SURVEYED, PLOTTED, AND CHECKED  
 SURVEY PLOTTED, TEMPLATE AREAS CHECKED  
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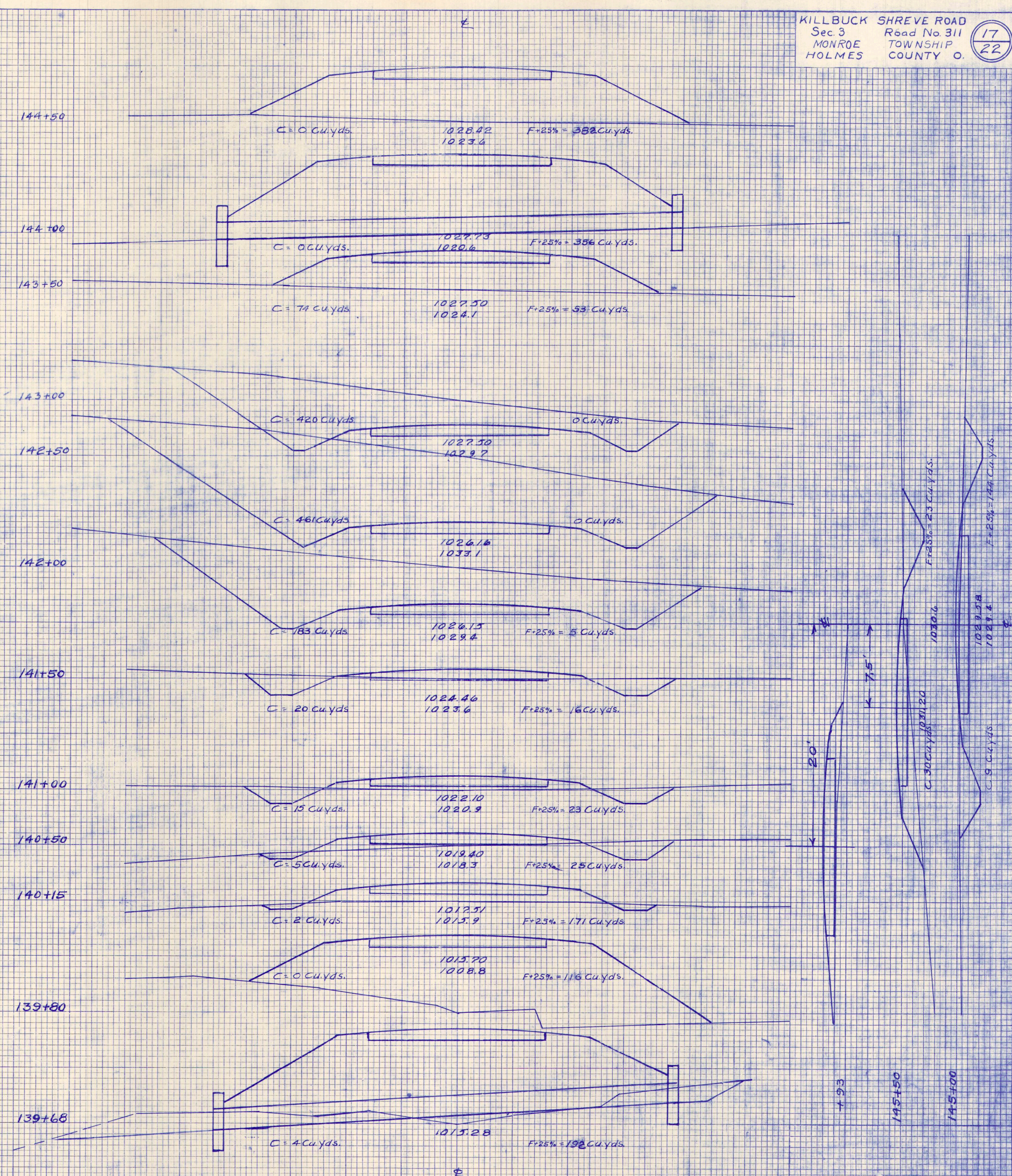
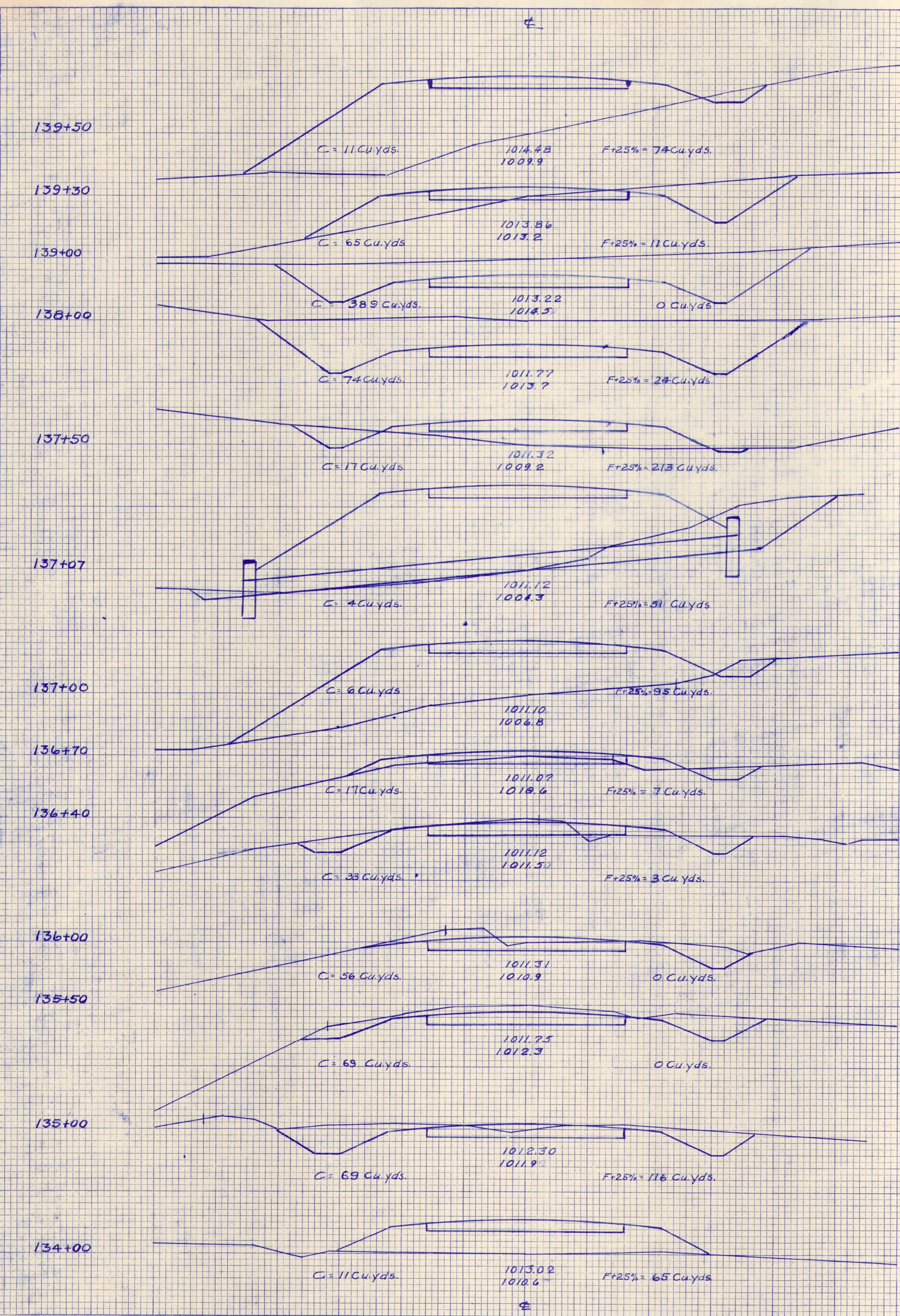
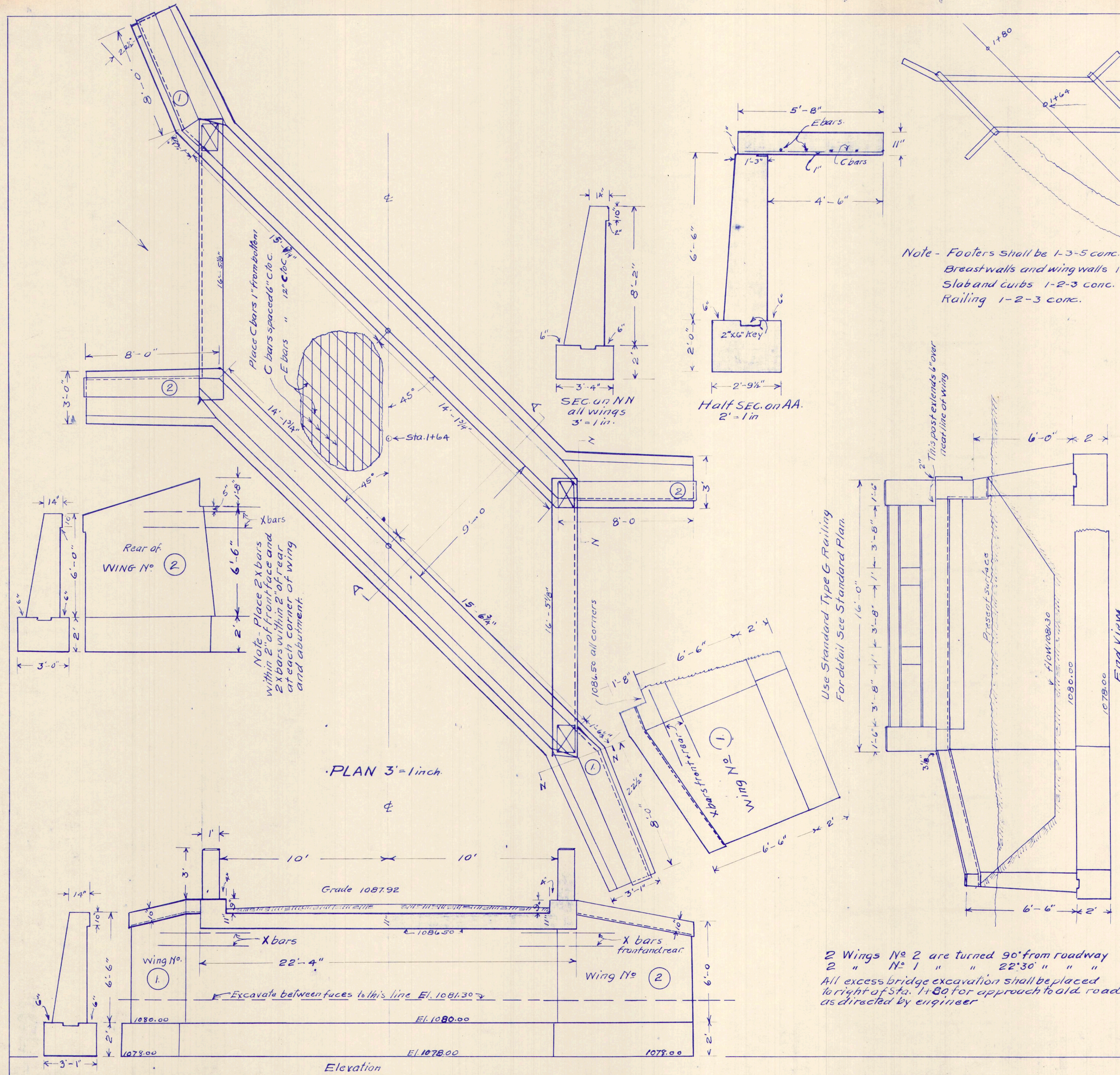
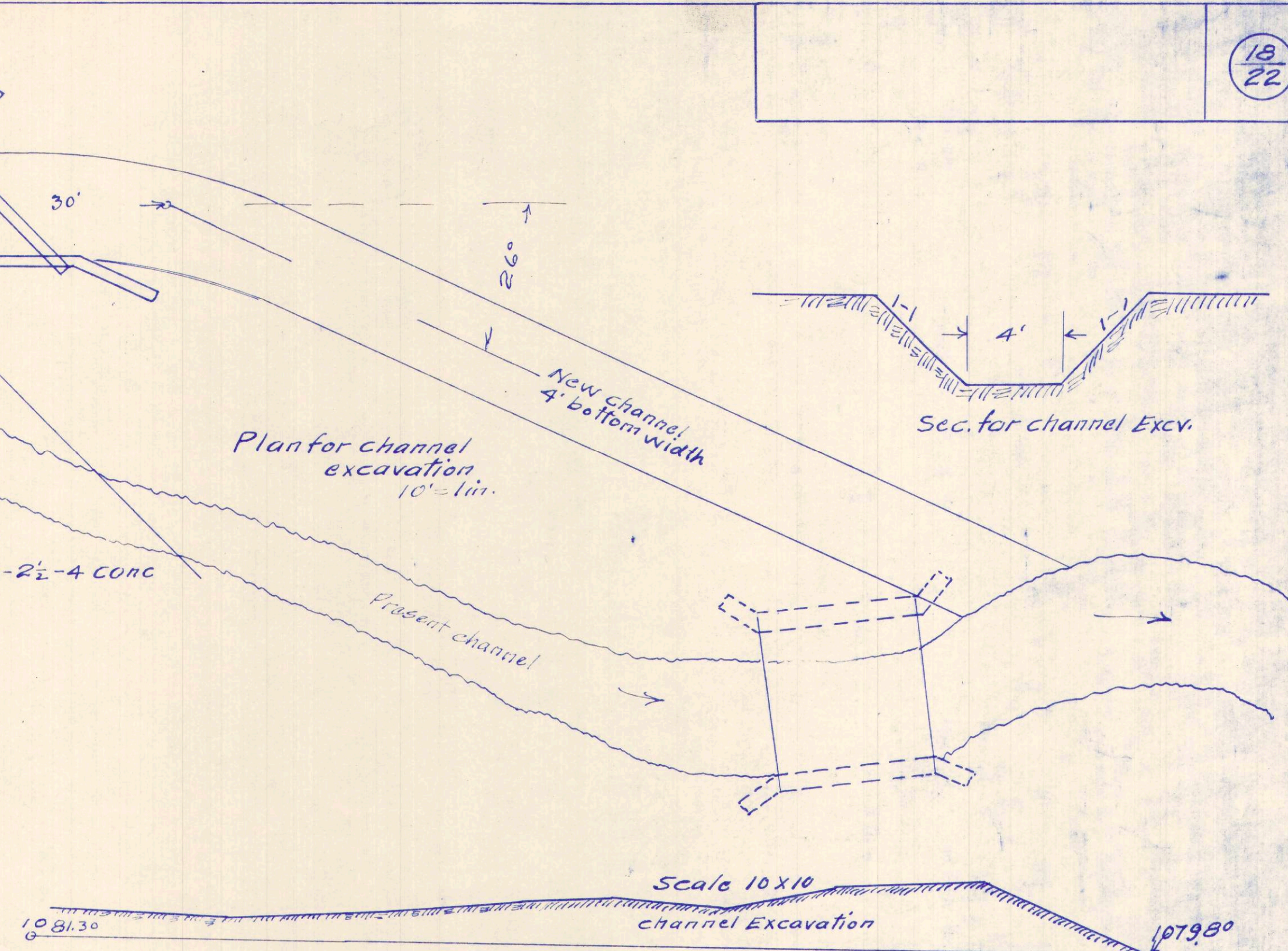


PLATE 3 - CROSS SECTION B - STANDARD





Note - Footers shall be 1-3-5 conc.  
Breast walls and wing walls 1-2½-4 conc.  
Slab and curbs 1-2-3 conc.  
Railing 1-2-3 conc.



STEEL LIST

No.	Mark	Size	Length	Place
16	X	¾" sq.	6'-0"	Cor. Wings
40	C	¾" "	15'-0"	Slab
9	E	¾" "	15'-0"	Slab
9	E	¾" "	18'-0"	Slab
4	C	¾" "	15'-8"	curbs
16	K	¾" "	4'-0"	End Posts
16	G	¾" "	3'-6"	Int. "
4	F	¾" "	15'-6"	Railing

All bars shall be deformed bars.

Note - Channel excavation shall be placed for approach right of Sta. 1+80

ESTIMATED QUANTITIES

- 112 cu. yd. excavation
- 97 " " Channel excavation
- 16.5 " " 1-3-5 concrete
- 36.1 " " 1-2½-4 concrete
- 13.3 " " 1-2-3 concrete
- 1687 Pounds reinforcing Steel
- 32 Linft. Type G Guard Rail

Note - All workmanship and material shall conform to specifications for concrete structures

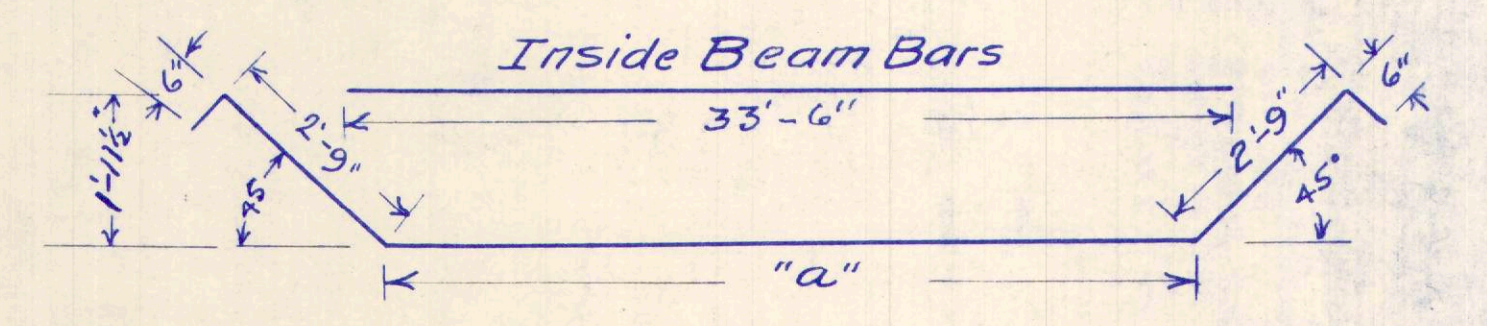
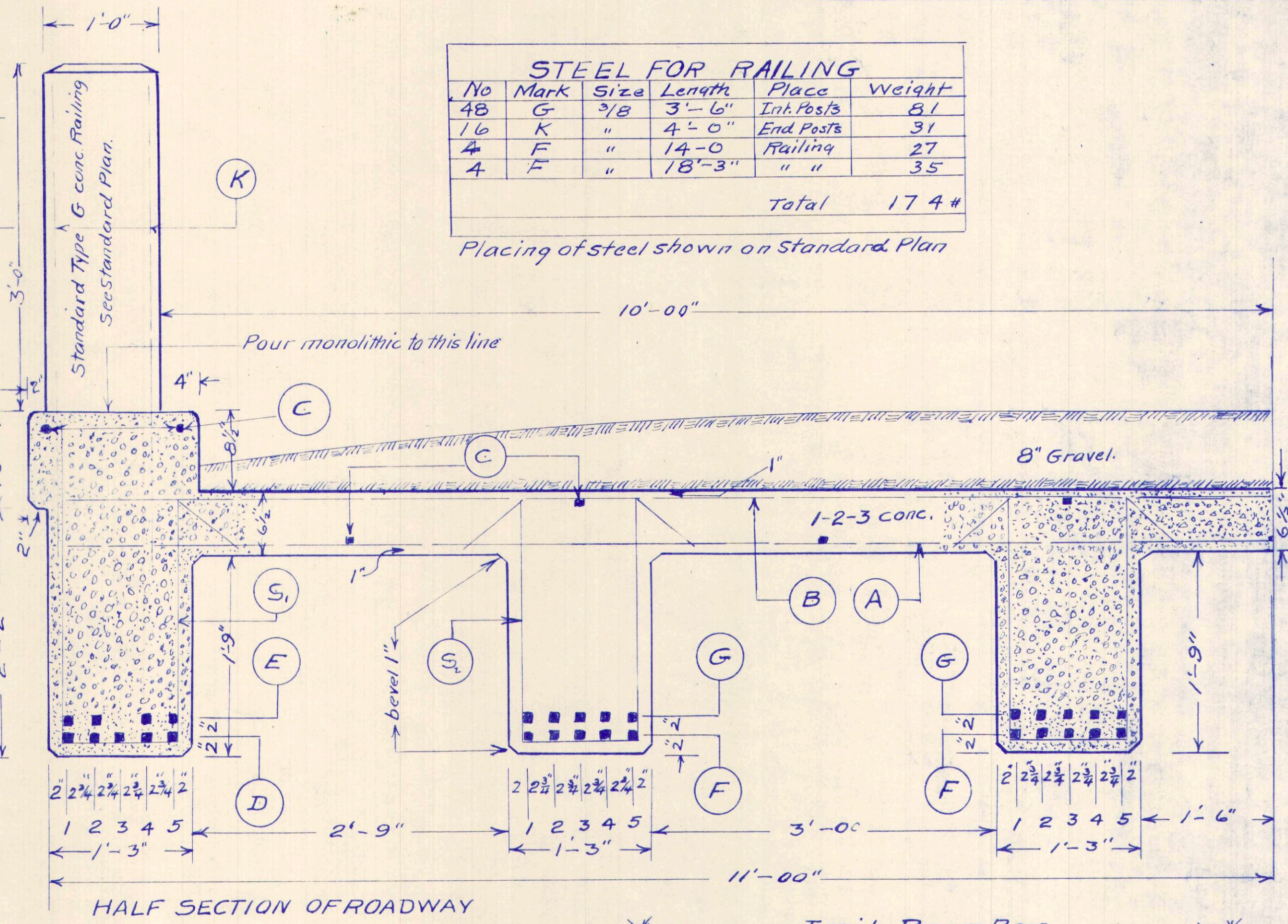
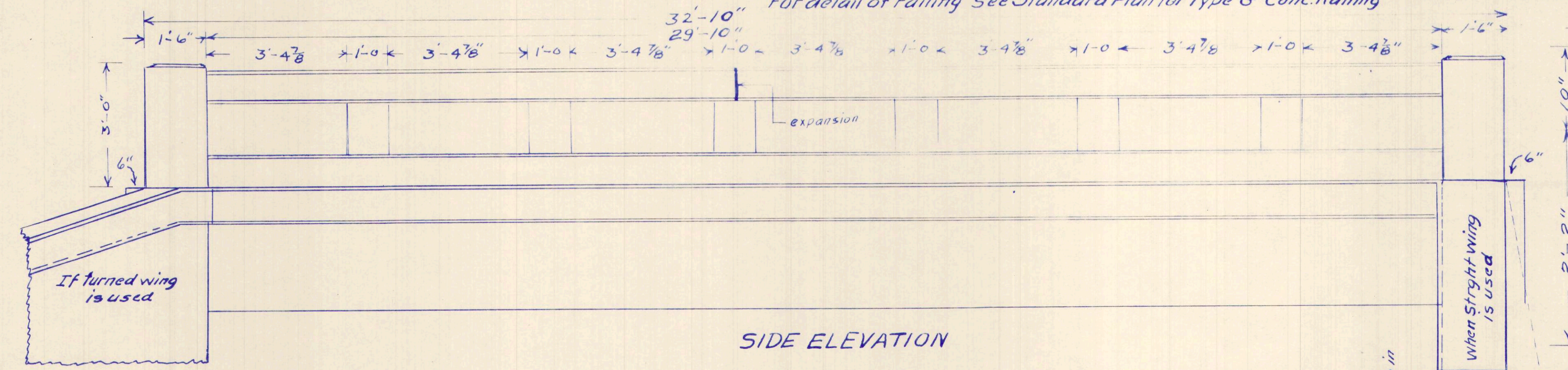
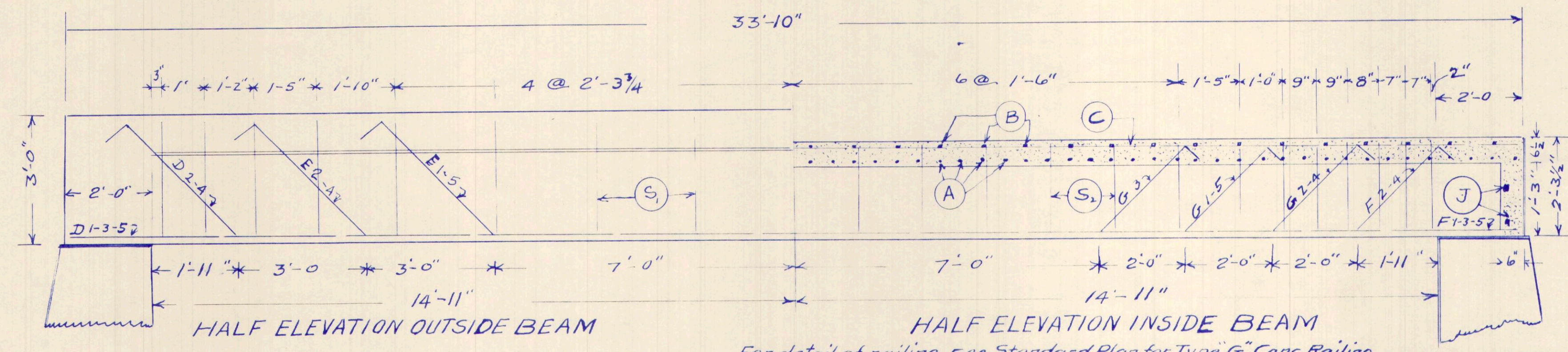
2 Wings No 2 are turned 90° from roadway  
2 " No 1 " " 22'30" " "  
All excess bridge excavation shall be placed to right of Sta. 1+80 for approach to old road, as directed by engineer

**PLAN  
SLAB BRIDGE  
SPAN 9' ROADWAY 20'  
STA. 1+64 45° SKEW  
SEC. "C" KILLBUCK-SHREVE ROAD  
MONROE TOWNSHIP 1923**



STEEL FOR RAILING					
No	Mark	Size	Length	Place	Weight
48	G	3/8	3'-6"	Int. Posts	81
16	K	"	4'-0"	End Posts	31
4	F	"	14'-0"	Railing	27
4	F	"	18'-3"	"	35
Total					174#

Placing of steel shown on Standard Plan

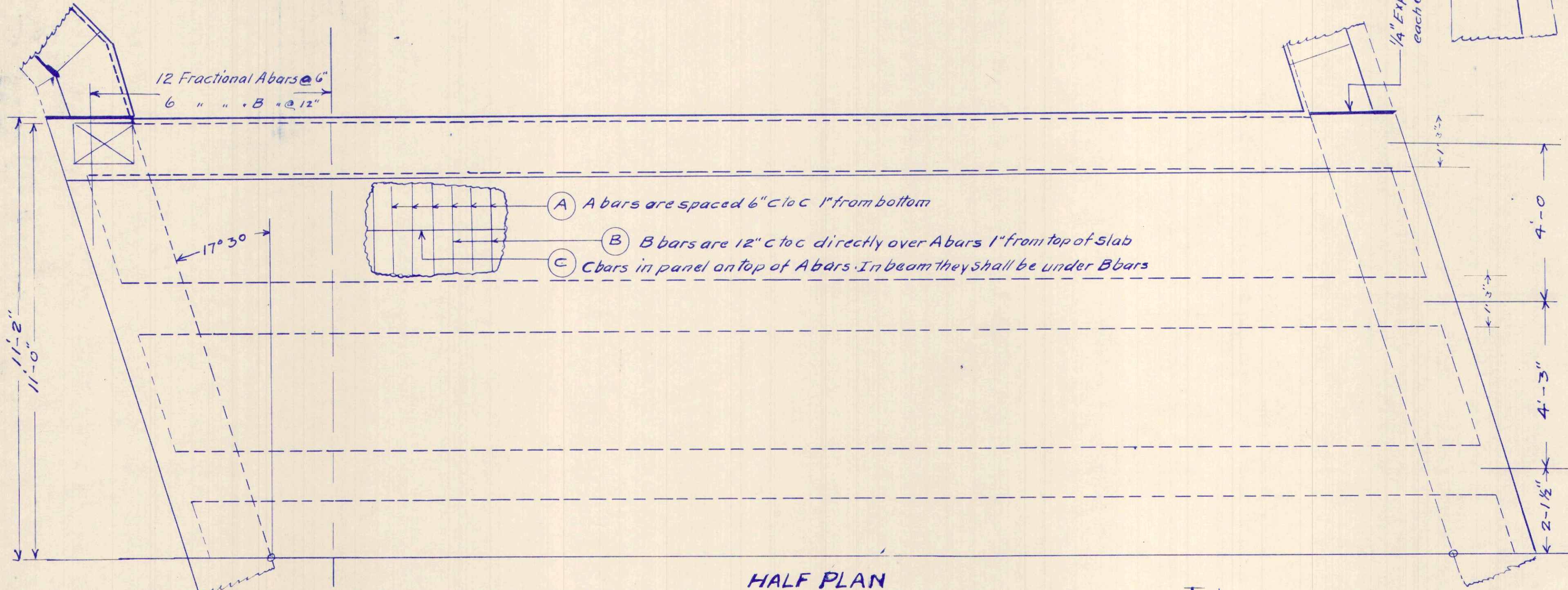


INSIDE BEAM STEEL					
No	Mark	Size	"a"	Total Length	Weight
4	F-1	1/8" #4	33'-6"	33'-6"	349
4	F-2	"	26'-0"	32'-6"	339
4	F-3	"	26'-0"	33'-6"	349
4	F-4	"	26'-0"	32'-6"	339
4	F-5	"	26'-0"	33'-6"	349
4	G-1	"	18'-0"	24'-6"	250
4	G-2	"	22'-0"	28'-6"	297
4	G-3	"	14'-0"	20'-6"	204
4	G-4	"	22'-0"	28'-6"	297
4	G-5	"	18'-0"	24'-6"	250
108	S2	3/8"	6'-5"	6'-5"	331
Totals					3354

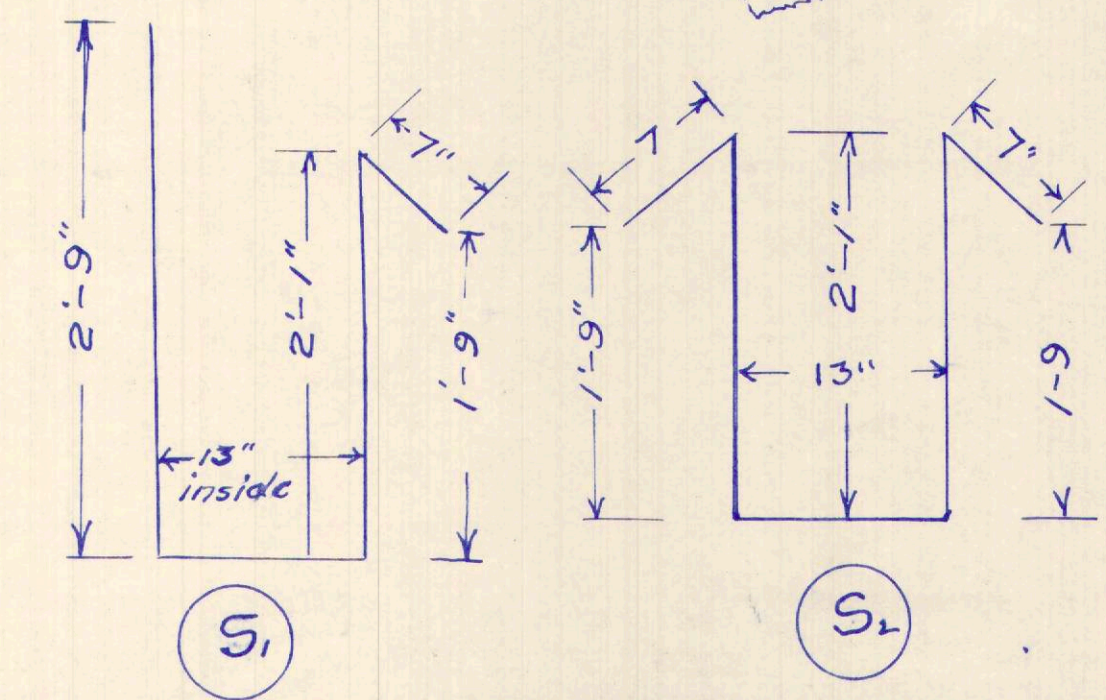
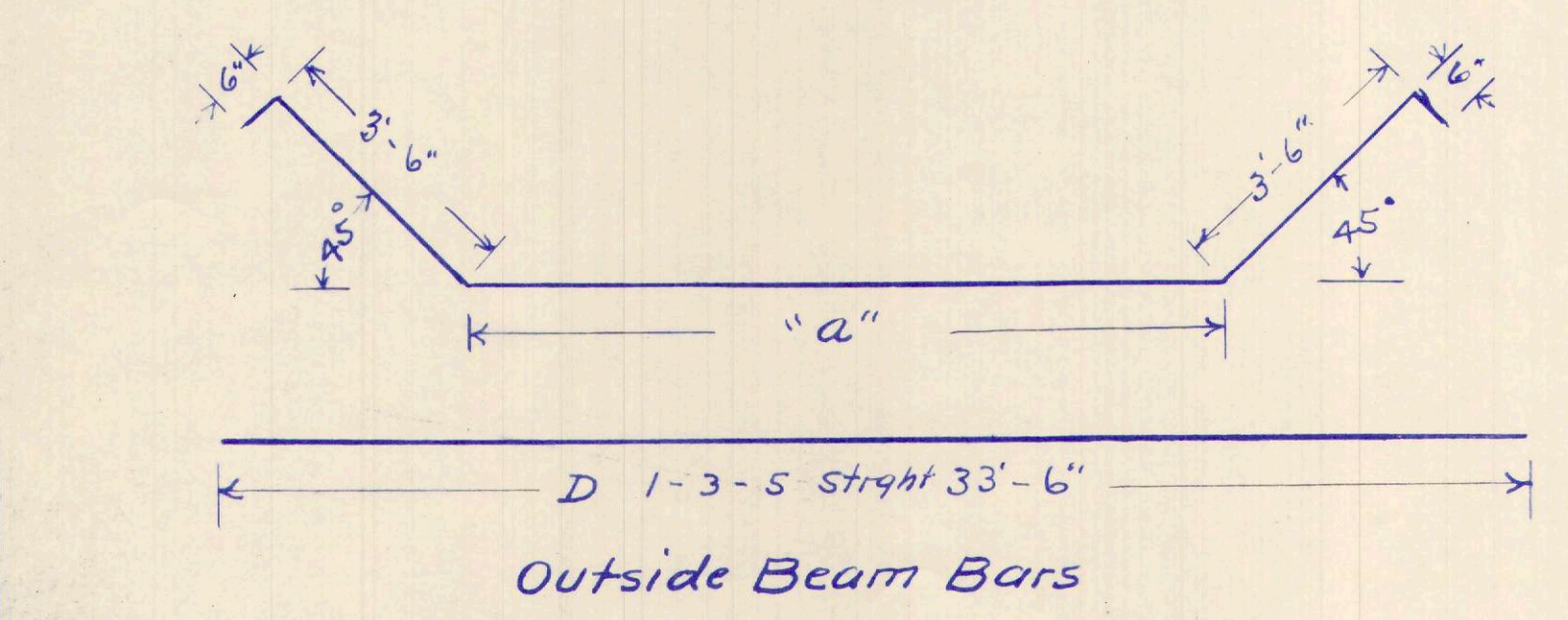
Note - All reinforcing steel provided for on this plan shall be square twisted bars or other deformed bars of same sec. area.

ESTIMATED QUANTITIES  
 35.8 cu. yds. 1-2-3 concrete  
 6703 pounds reinforcing steel  
 65' 8" concrete railing Type G  
 24 sq. ft. 1/4" expansion felt.

All workmanship and material shall conform to specifications  
 Concrete shall not be spouted into Beam Forms  
 Sub-Structure Quantities  
 107 cu. Excavation  
 12 cu. 1-3-5 conc.  
 443 cu. 1-2 1/2 conc.  
 192# Steel (See Small sheet.)



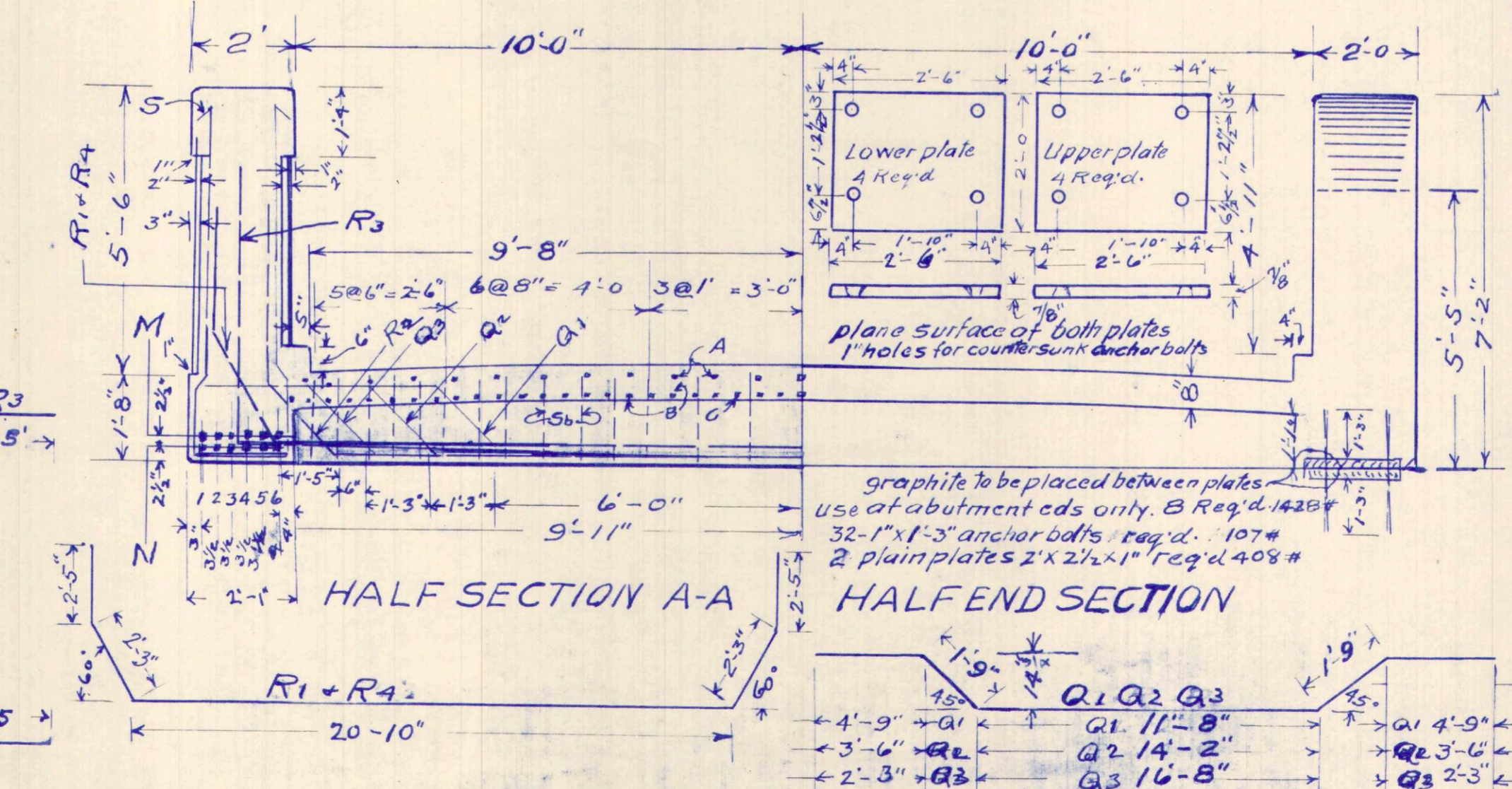
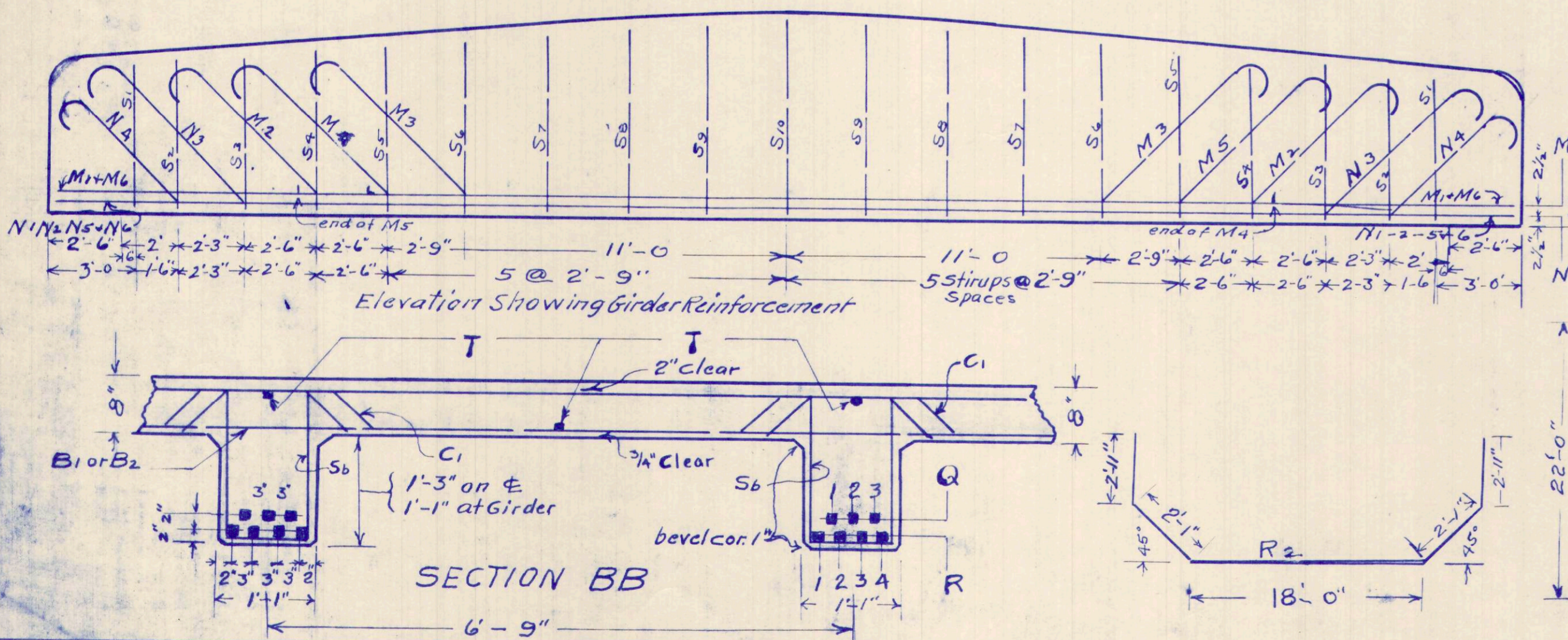
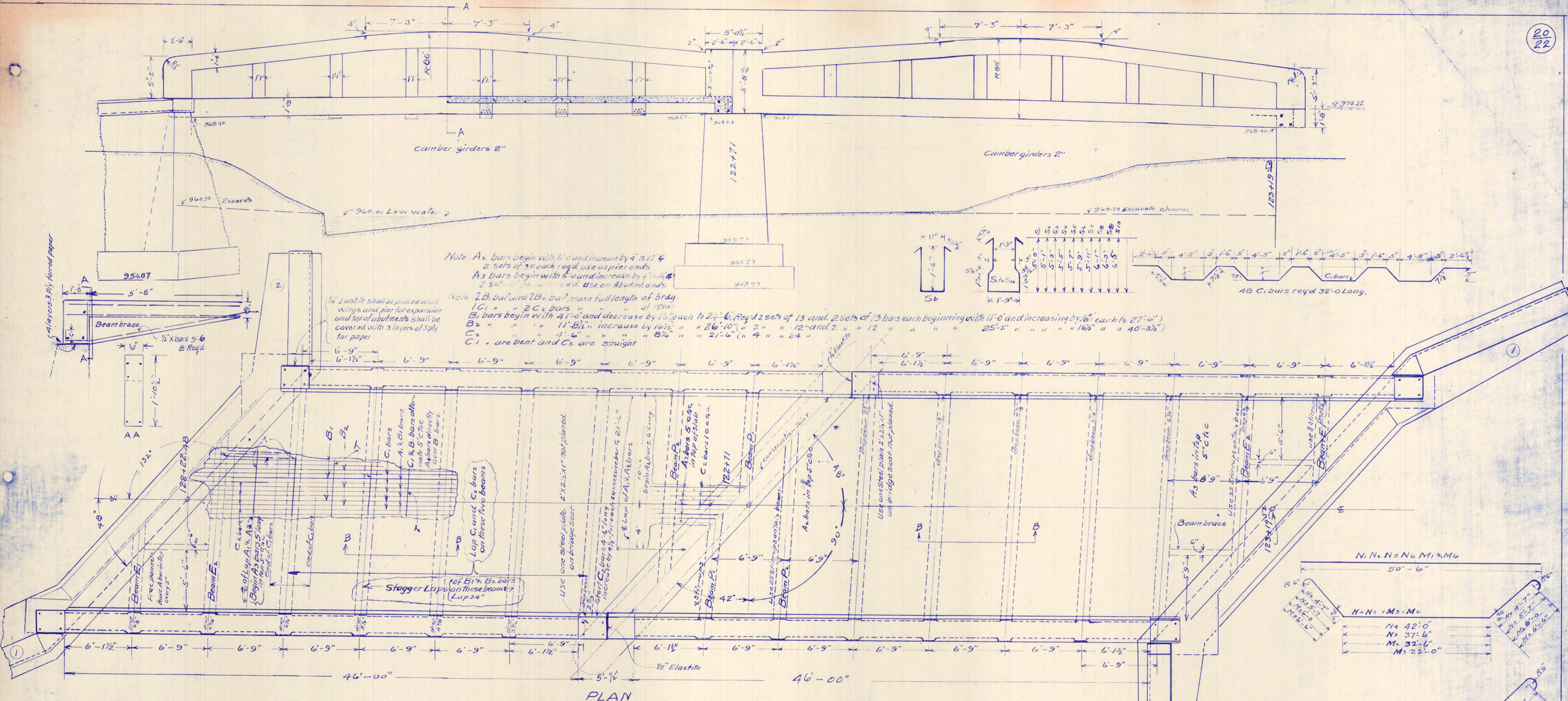
OUTSIDE BEAM STEEL					
No	Mark	Size	"a"	Total Length	Wght.
2	D-1	1/8" #4	33'-6"	33'-6"	174#
2	D-2	3/4"	26'-0"	34'-0"	130
2	D-3	"	26'-0"	33'-6"	128
2	D-4	"	26'-0"	34'-0"	130
2	D-5	7/8"	26'-0"	33'-6"	174
2	E-2	3/4"	20'-0"	28'-0"	107
2	E-1	"	14'-0"	22'-0"	84
2	E-5	"	14'-0"	22'-0"	84
2	E-4	"	20'-0"	28'-0"	107
34	S1	3/8"	6'-6"	6'-6"	106
Total					1224#



SLAB STEEL					
No	Mark	Size	Length	Total Ft.	Wght.
54	A	1/2" #4	21'-8"	1170'-0"	
27	B	1/2" "	21'-8"	585'-0"	
2	A	"	20'-4"	40'-8"	
2	A	"	18'-9"	37'-6"	
2	A	"	17'-2"	34'-4"	
2	A	"	15'-7"	31'-2"	
2	A	"	14'-0"	28'-0"	
2	A	"	12'-5"	24'-10"	
2	A	"	10'-10"	21'-8"	
2	A	"	9'-3"	18'-6"	
2	A	"	7'-8"	15'-4"	
2	A	"	6'-2"	12'-4"	
2	A	"	4'-7"	9'-2"	
2	B	"	3'-0"	6'-0"	
2	B	"	20'-4"	40'-8"	
2	B	"	17'-2"	34'-4"	
2	B	"	14'-0"	28'-0"	
2	B	"	10'-10"	21'-8"	
2	B	"	7'-8"	15'-4"	
2	B	"	4'-7"	9'-2"	
13	C	1/2"	33'-6"	67'-0"	
4	J	1/2"	22'-0"	88'-0"	
Totals					2338'-8" 1989#

CONCRETE BEAM BRIDGE  
 CLEAR SPAN . . . . . 29'-10"  
 ROADWAY . . . . . 20'-0."  
 STA. 119+06.5 SEC. "C"  
 KILLBUCK-SHREVE ROAD N° 311,  
 MONROE TOWNSHIP,  
 HOLMES CO. OHIO.





**SUPERSTRUCTURE ESTIMATED QUANTITIES**

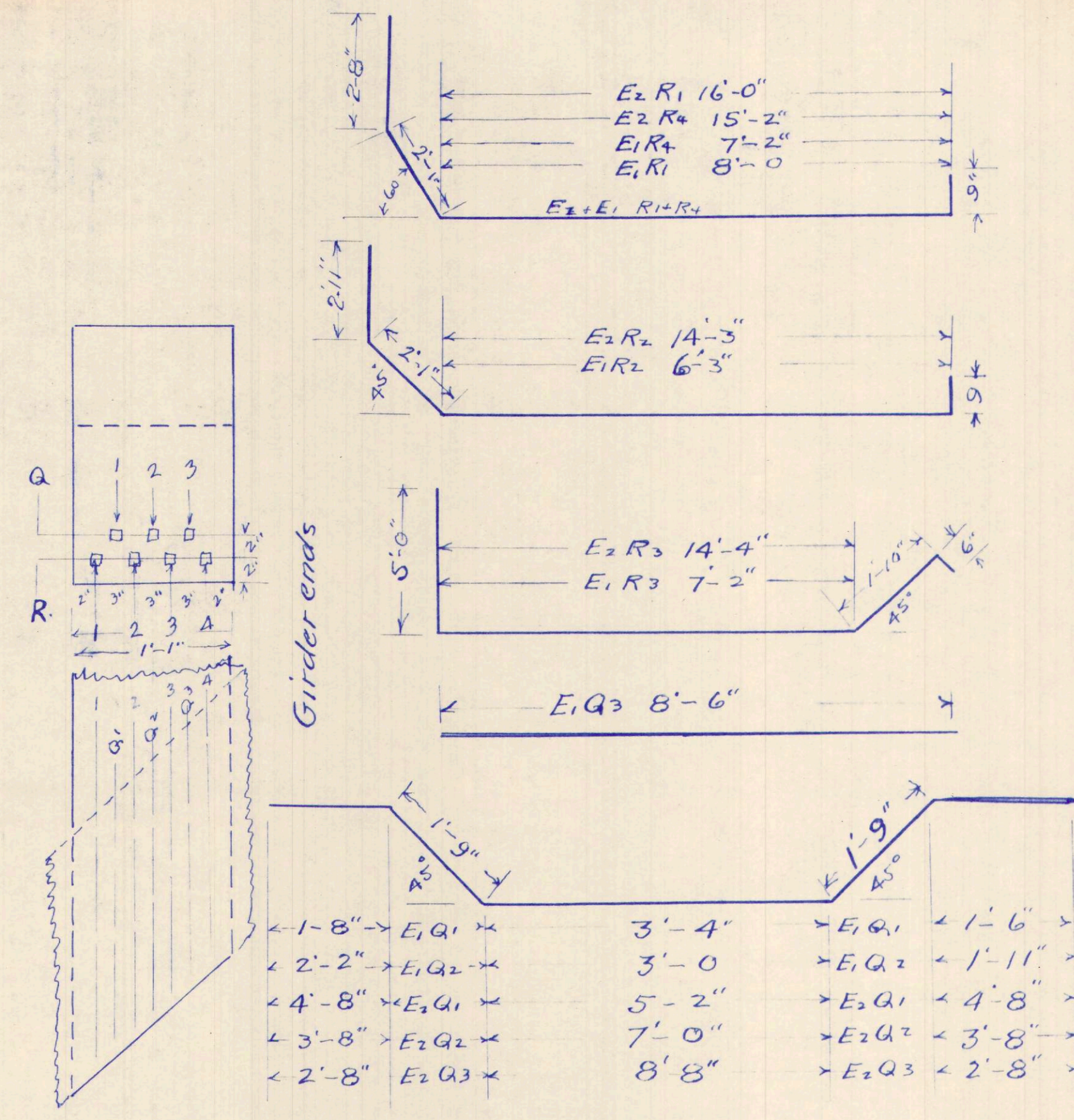
158. cu yds. 1-2-3 concrete  
 30404 # reinforcing steel  
 1943 # structural steel  
 23 " " 1/2" " " " "

**CONCRETE GIRDER BRIDGE**

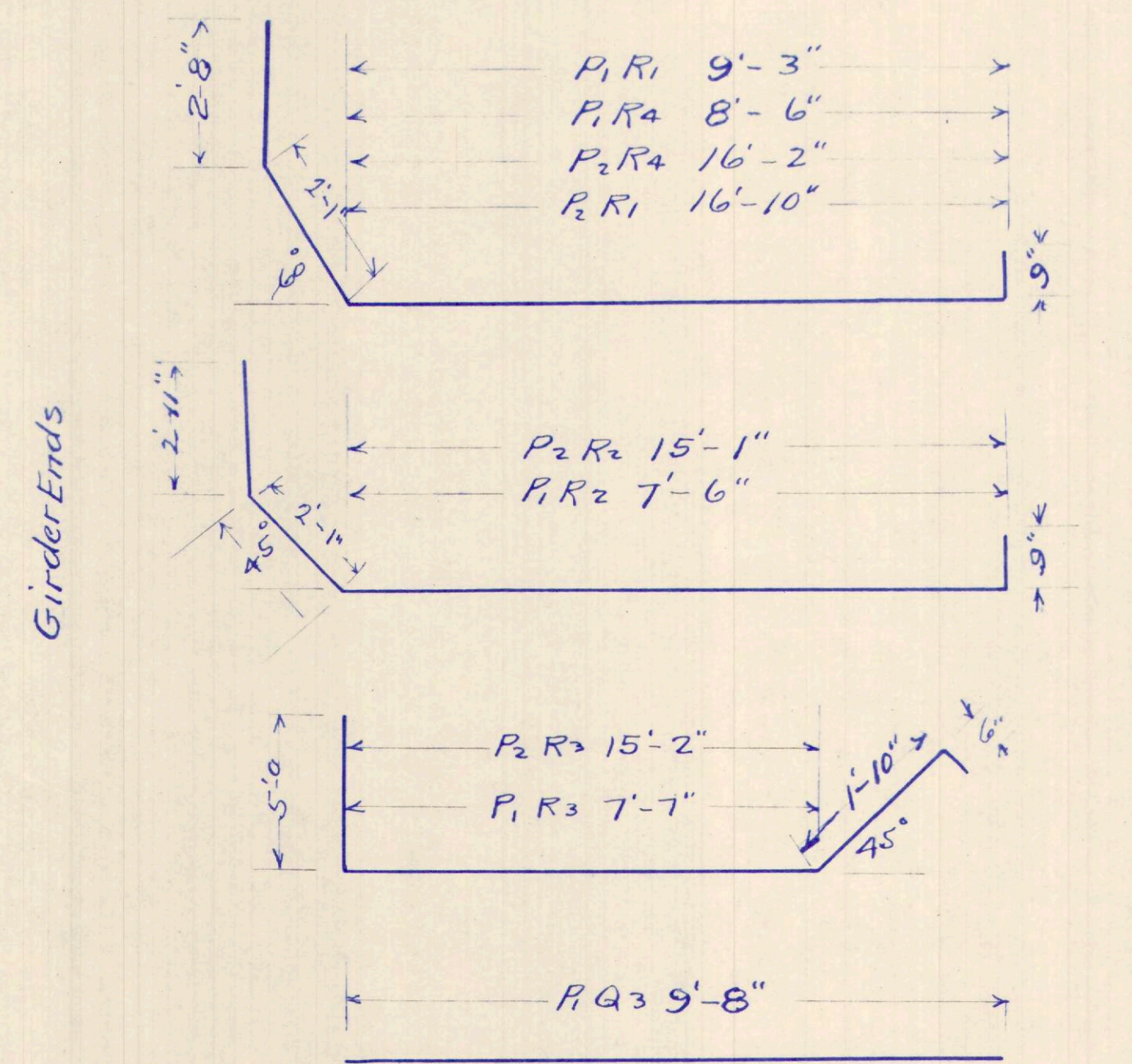
2-46'-0 CLEAR SPANS  
 42' LEFT FORWARD SKEW  
 20' CLEAR ROADWAY  
 STA. 122+71 SEC. "C"  
 KILLBUCK-SHREVE ROAD N311.  
 MONROE TOWNSHIP  
 HOLMES COUNTY, O. 1922

Sheet 1.

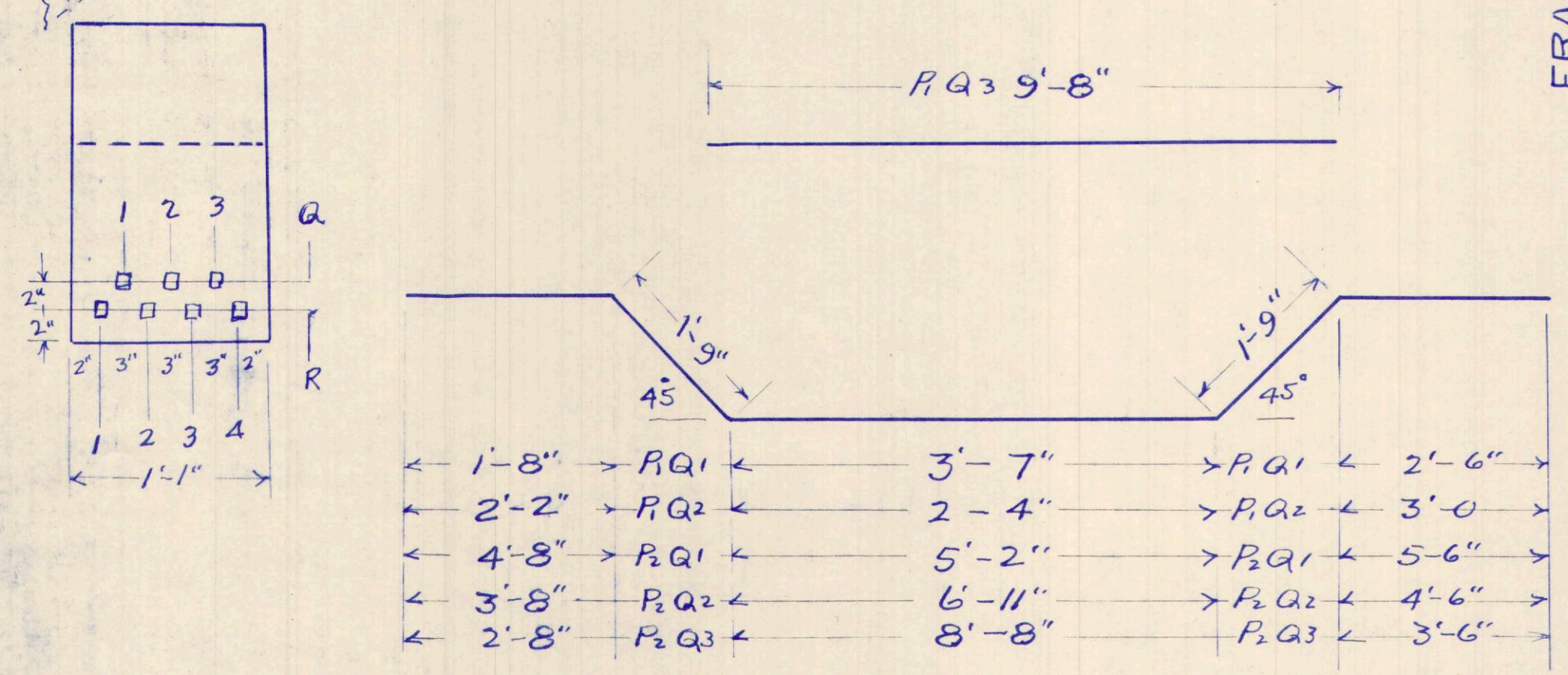




FRACTIONAL BEAMS E1 and E2

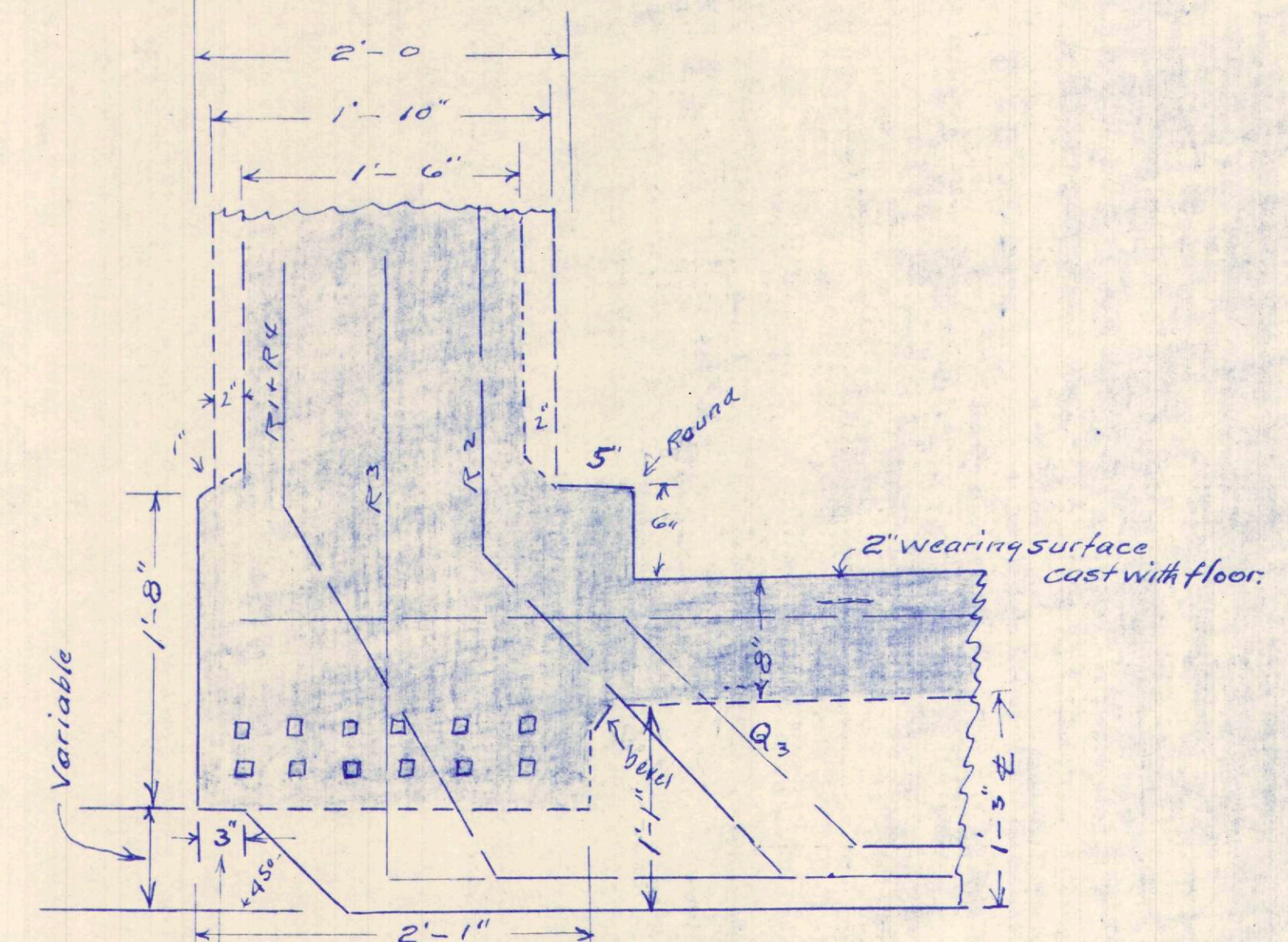


FRACTIONAL BEAMS P1 and P2



### STEEL LIST SUPERSTRUCTURE

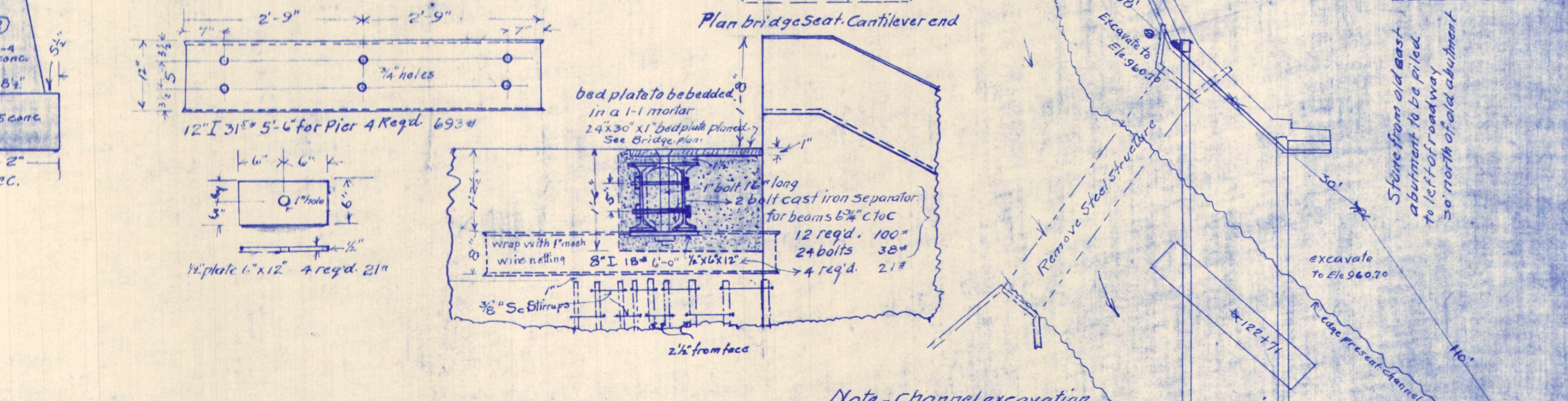
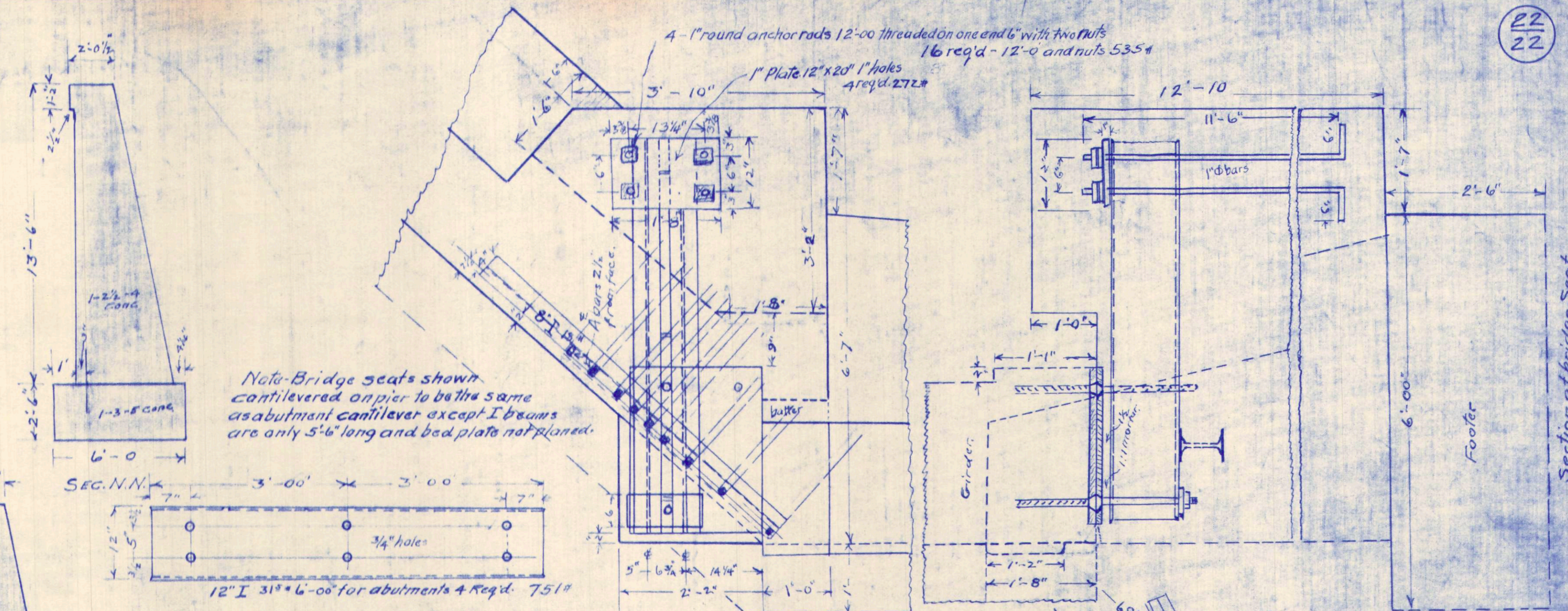
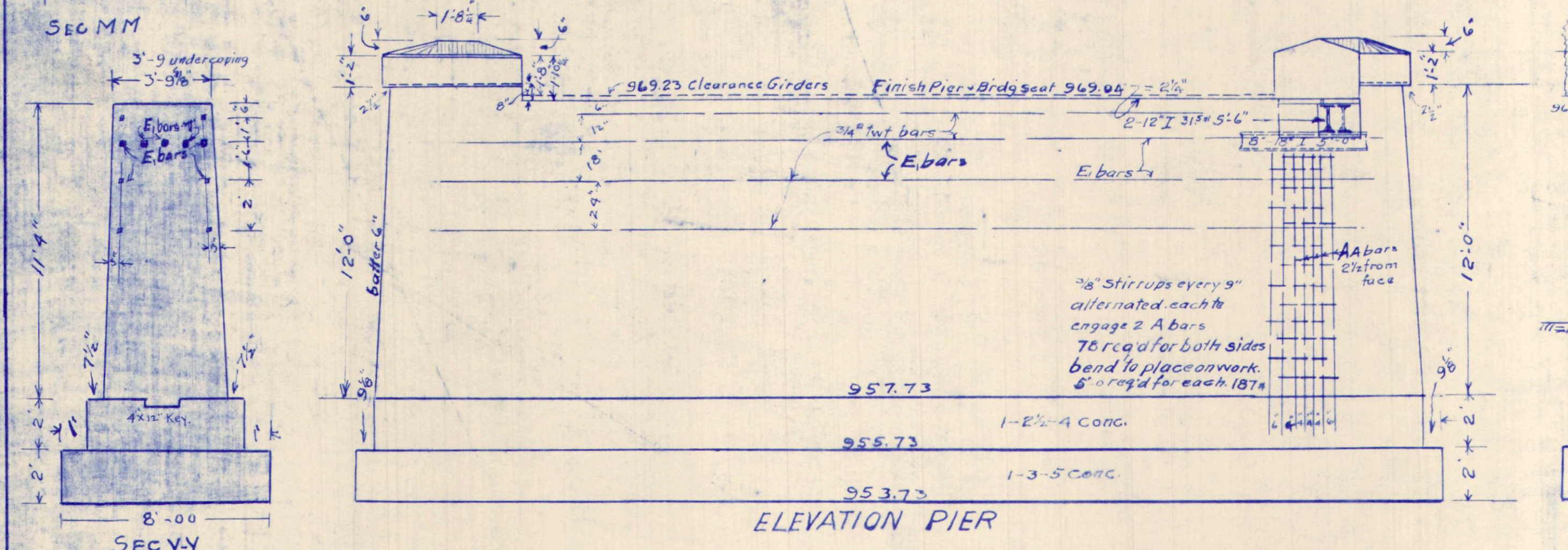
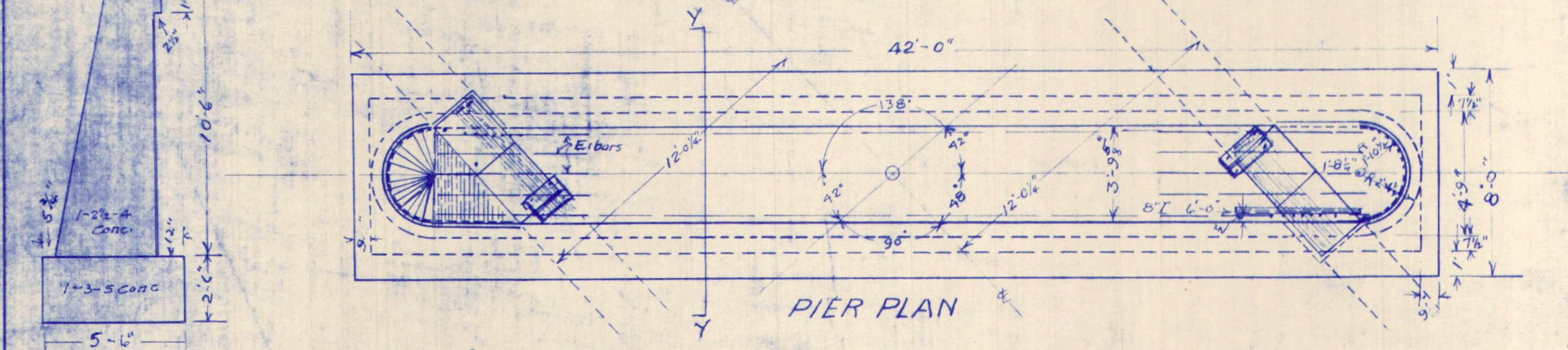
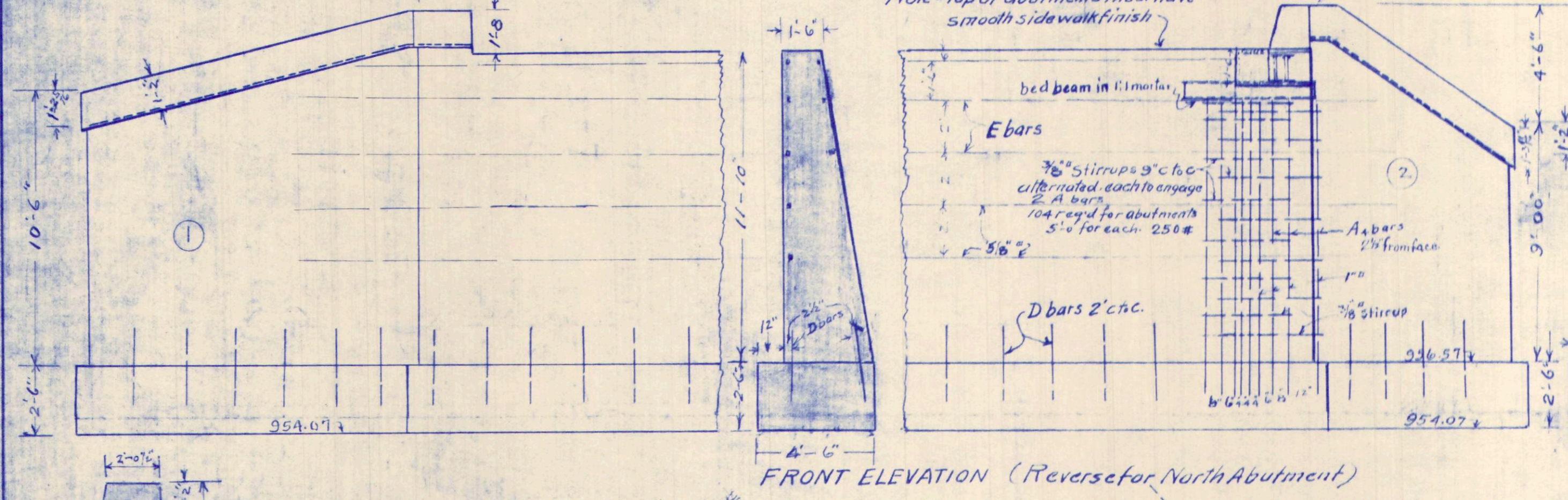
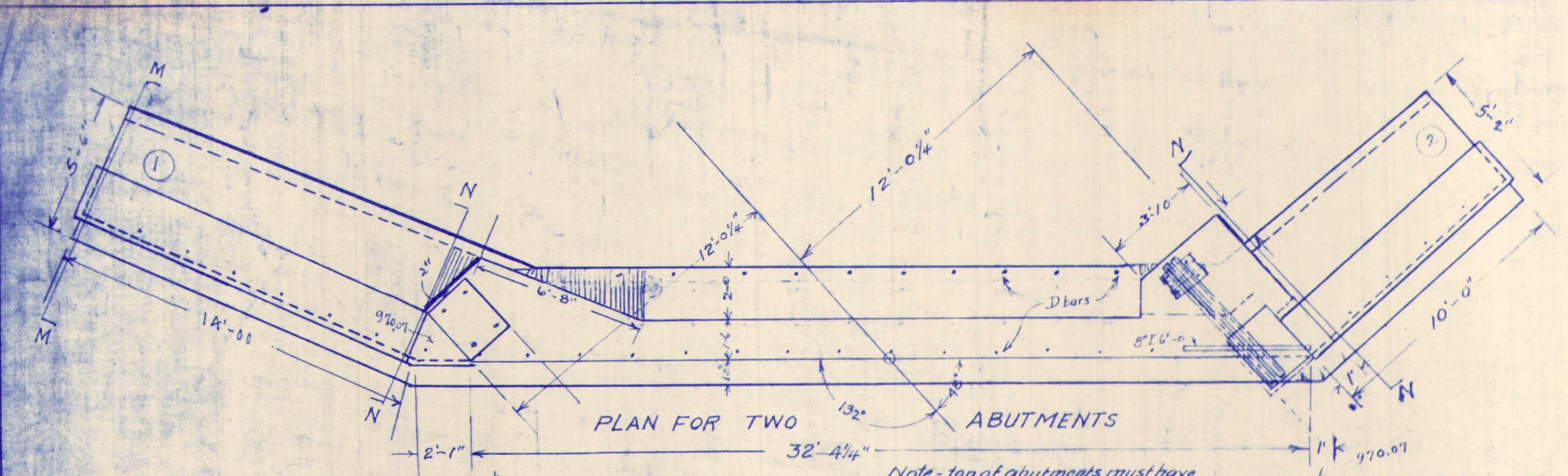
Mark	No	Size	Length	Remarks	Location	Weight
T	18	1/2" round	23'-6"	Straight	Slab	283.4
T	6	"	29'-0"	"	Slab rest Abutmt.	116.6
T	6	"	32'-0"	"	" Pier	128.6
T	4	"	20'-0"	"	" fractional	53.6
T	4	"	16'-6"	"	Beam	44.2
T	4	"	12'-6"	"	Slab	32.2
T	4	"	8'-6"	"	Beam	22.8
X	8	"	9'-6"	bend on work	" braces	50.9
Sb	422	"	5'-0"	Shop bent	All beams	1413.7
Total wght of 1/2" round bars						2146.0
A1	50	1/2" #	35'-9"	Straight	top slab	1599.4
A2 2sets	70	1/2" #	6'-0" to 17'-4" Start with 6" increments	"	frac. end slab Pier	694.4
A2	35	70	5'-0" to 16'-4" "	"	Abutmt.	634.9
B1	13	26	24'-6" to 41'-0" "	"	bottom slab straight	723.8
B1	13	26	11'-0" to 27'-6" "	"	"	425.4
B2	12	24	11'-8 1/2" to 16'-10" "	"	"	393.0
B2	12	24	25'-10'-0" to 30'-3 1/2" "	"	"	667.7
C1	48	"	32'-0"	Shop bent	"	1305.6
C2 45 to 24	96	"	4'-6" to 21'-6" Start 4'-0" increments	"	"	1060.8
S1	8	"	12'-8"	Shop bent	Girders	86.2
S2	8	"	13'-10"	"	"	87.2
S3	8	"	13'-2"	"	"	89.6
S3a	8	"	13'-6"	"	"	91.8
S4	8	"	13'-10"	"	"	94.1
S4	8	"	14'-2"	"	"	96.4
S7	8	"	14'-6"	"	"	98.6
S8	8	"	14'-10"	"	"	100.8
S9	8	"	15'-2"	"	"	103.2
S10	4	"	15'-6"	"	"	52.7
Total wght of 1/2" # bars						8405.6
E1 Q1	2	3/4" #	10'-0"	Shop bent	Frac beams E1	38.4
E1 Q2	2	"	10'-7"	"	"	40.6
E1 Q3	2	"	8'-6"	Straight	"	32.6
E1 R1	2	7/8" #	13'-6"	Shop bent	"	70.2
E1 R2	2	"	12'-0"	"	"	62.4
E1 R3	2	"	14'-4"	"	"	74.8
E1 R4	2	"	12'-8"	"	"	65.9
P1 Q1	2	3/4" #	11'-3"	"	P1	43.2
P1 Q2	2	"	11'-0"	"	"	42.2
P1 Q3	2	"	9'-8"	Straight	"	37.1
P1 R1	2	7/8" #	13'-9"	Shop bent	"	71.5
P1 R2	2	"	13'-3"	"	"	68.9
P1 R3	2	"	14'-10"	"	"	77.2
P1 R4	2	"	14'-0"	"	"	74.8
E2 Q1	2	"	18'-0"	"	E2	93.6
" Q2	2	"	17'-10"	"	"	92.8
" Q3	2	"	17'-6"	"	"	91.0
" R1	2	1" #	21'-6"	"	"	146.2
" R2	2	1" #	20'-0"	"	"	136.0
" R3	2	1" #	21'-6"	"	"	146.2
" R4	2	1" #	20'-8"	"	"	140.5
P2 Q1	2	7/8" #	18'-10"	"	P2	98.0
" Q2	2	"	18'-7"	"	"	96.7
" Q3	2	"	17'-4"	"	"	90.2
" R1	2	1" #	14'-9"	"	"	100.3
" R2	2	1" #	20'-10"	"	"	141.7
" R3	2	1" #	22'-6"	"	"	153.0
" R4	2	1" #	21'-11"	"	"	149.6
Total Frac. Beams						2475.3
Q1	10	1" #	24'-8"	"	Regular Beam	838.8
Q2	10	1" #	24'-8"	"	"	838.8
Q3	10	1" #	24'-8"	"	"	838.8
R1	10	1" #	30'-2"	"	"	1025.8
R2	10	1" #	28'-0"	"	"	952.0
R3	10	1" #	32'-0"	"	"	1088.0
R4	10	1" #	30'-2"	"	"	1025.8
Total Regular Beams						6608.0
M1	4	1 1/8" #	50'-6"	Straight	Girders	868.6
M2	4	"	47'-8"	Shop bent	"	819.9
M3	4	"	38'-2"	"	"	828.5
M4	4	"	38'-8"	"	"	837.1
M5	4	"	38'-8"	"	"	837.1
M6	4	"	50'-6"	Straight	"	868.6
N1	4	"	50'-6"	Straight	"	868.6
N2	4	1 1/4" #	50'-6"	"	"	1072.6
N3	4	1 1/8" #	51'-10"	Shop bent	"	891.8
N4	4	"	54'-4"	"	"	934.5
N5	4	1 1/4" #	50'-6"	Straight	"	1072.6
N6	4	1 1/8" #	50'-6"	"	"	868.6
Total wght. of bars under 3/4" #						10551.6
All # bars shall be deformed bars. " " " " over 3/4" #						19851.8
Total wght. of bars						30403.4 Pounds.



SEC. FOR DROP BEAMS.

Drop of beams variable from 2 1/8" to 6 1/4"  
See sheet 1.





REINFORCING STEEL FOR SUB-STRUCTURE

Mark No.	Size	Length	Remarks	Location	Weight
Sc 104	3/8"	5'-0"	bend on work	Face Abutmt	250
Sc 78	"	5'-0"	"	"	187
Total 3/8" bars					437
E 20	5/8"	20'-0"	Straight	Face Abutmt	532
E 6	"	30'-0"	"	Back "	240
Total 5/8" bars					772
D 70	3/4"	3'-0"	"	Footers	403
E1 8	"	36'-0"	"	Face Pier	551
E1 6	"	8'-0"	"	Top "	92
Total 3/4" bars					1046
A4 18	1"	11'-0"	Straight	Face Abutmt	673
A4 14	"	11'-0"	"	" Pier	476
Total 1" bars					1149
Total Wght. 3404					

STRUCTURAL STEEL

Plate	Size	Length	Remarks	Location	Weight
4	1/2"	6" x 12"	1" holes	below 12" I	21
"	1"	12" x 20"	4" holes	Top 12" I	272
Bolts	1" x 16"	With nut countersunk head		Front end 12" I	21
Rods	1" round	12'-0" threaded 6" + 2 nuts each		Anchor	535
I	4	12" 31#	6'-0" 6 holes 3/4"	Abutments	751
I	4	12" 31#	5'-6" 6 "	Pier	693
I	4	8" 18#	6'-0" Plain	Under 12" I's	432
Total					2725

STEEL Bed Plates See Sheet # 1.

8 - 7/8" plates	24" x 30" planed face	4" holes	1428
2 - 1" "	24" x 30" not planed	4" "	408
32 - 1" x 15" anchor bolts	countersunk heads		107
Total Steel No. 1.			1943

Note - Channel excavation shall be placed on roadway Sta. 123+50 to 124+00

All workmanship and material must conform to specifications for concrete structures.

All right angle corners shall be rounded or beveled 1"

ESTIMATED QUANTITIES

195 cu.yds	Excavation Dry.
273 cu.yds.	" " " " Wet
286 cu.yds.	" " " " Channel
76.5 cu.yds	1-3-5 concrete
235.7 "	" " 1-2 1/2 - 4 "
3404 pounds	reinforcing steel
2725 "	structural "
138 "	cast iron separators

BRIDGE STA. 122+71

SHEET 3.