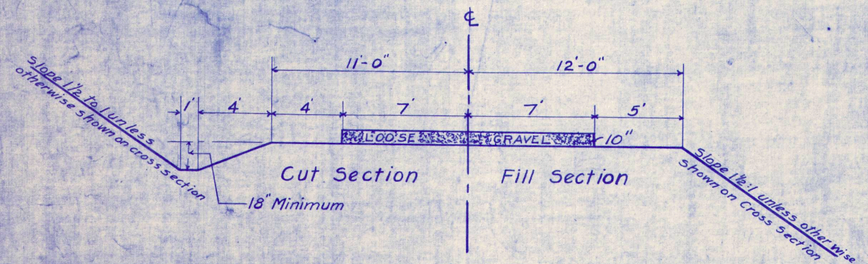
SEC. A
KILLBUCK-COSHOCTON
KILLBUCK TWP.
1/30

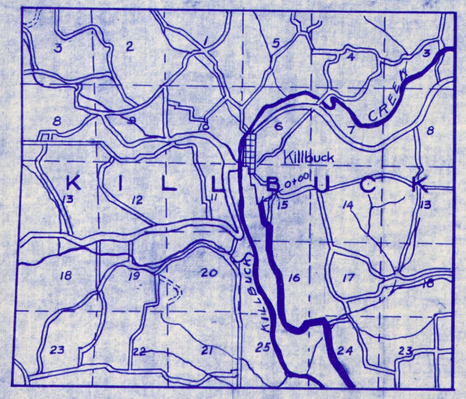
HOLMES COUNTY
DIVISION OF CONSTRUCTION
KILLBUCK-COSHOCTON
SECTION-A ROAD NO 343
KILLBUCK TOWNSHIP

S.R. 60



TYPICAL CROSS SECTION
UNLESS
OTHERWISE SHOWN ON CROSS SECTION SHEETS

Gravel shall be spread uniformly to thickness shown by staking forms on the sides and using a strike-off or by using an adjustable spreader box. The contractor shall keep the placed gravel dragged until all the gravel has been placed.



LOCATION PLAN

PORTION TO BE IMPROVED ——

Scales

PLAN	1" = 100'
PROFILE (Vertical)	1" = 100'
PROFILE (Horizontal)	1" = 10'
CROSS SECTIONS	1" = 5'

INDEX OF SHEETS

Title and Standard Section	Sheet No 1
Plan and Profile	" " 2-7
Cross Sections	" " 8-23
Culverts and Bridges	" " 24-29
Summary of Quantities	30

The Standard Specifications of the State of Ohio, Division of Highways, in force on August 25, 1925, will govern this improvement unless otherwise shown.

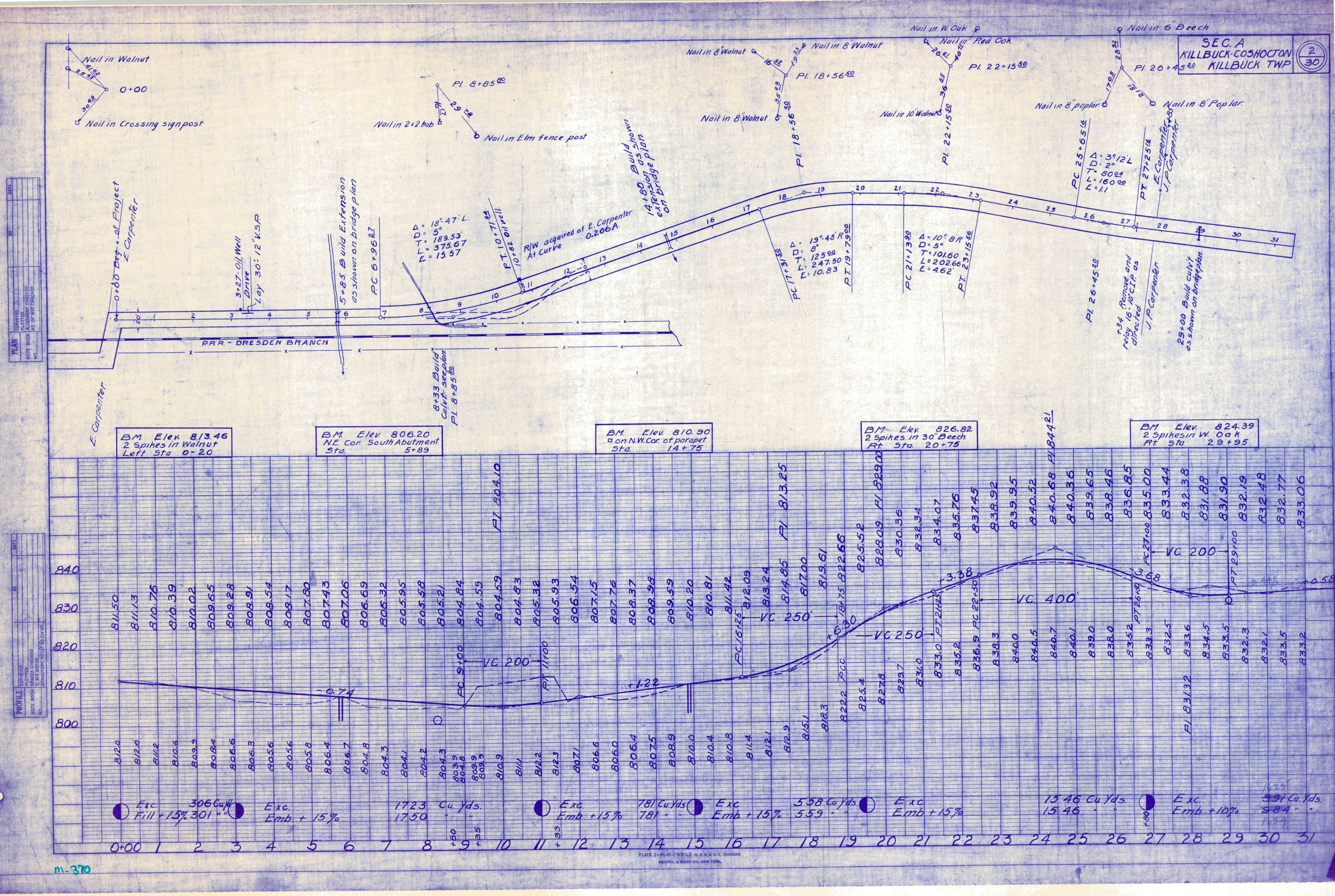
I hereby approve the plans and declare that the making of the improvement will not require the closing to traffic of the Highway.

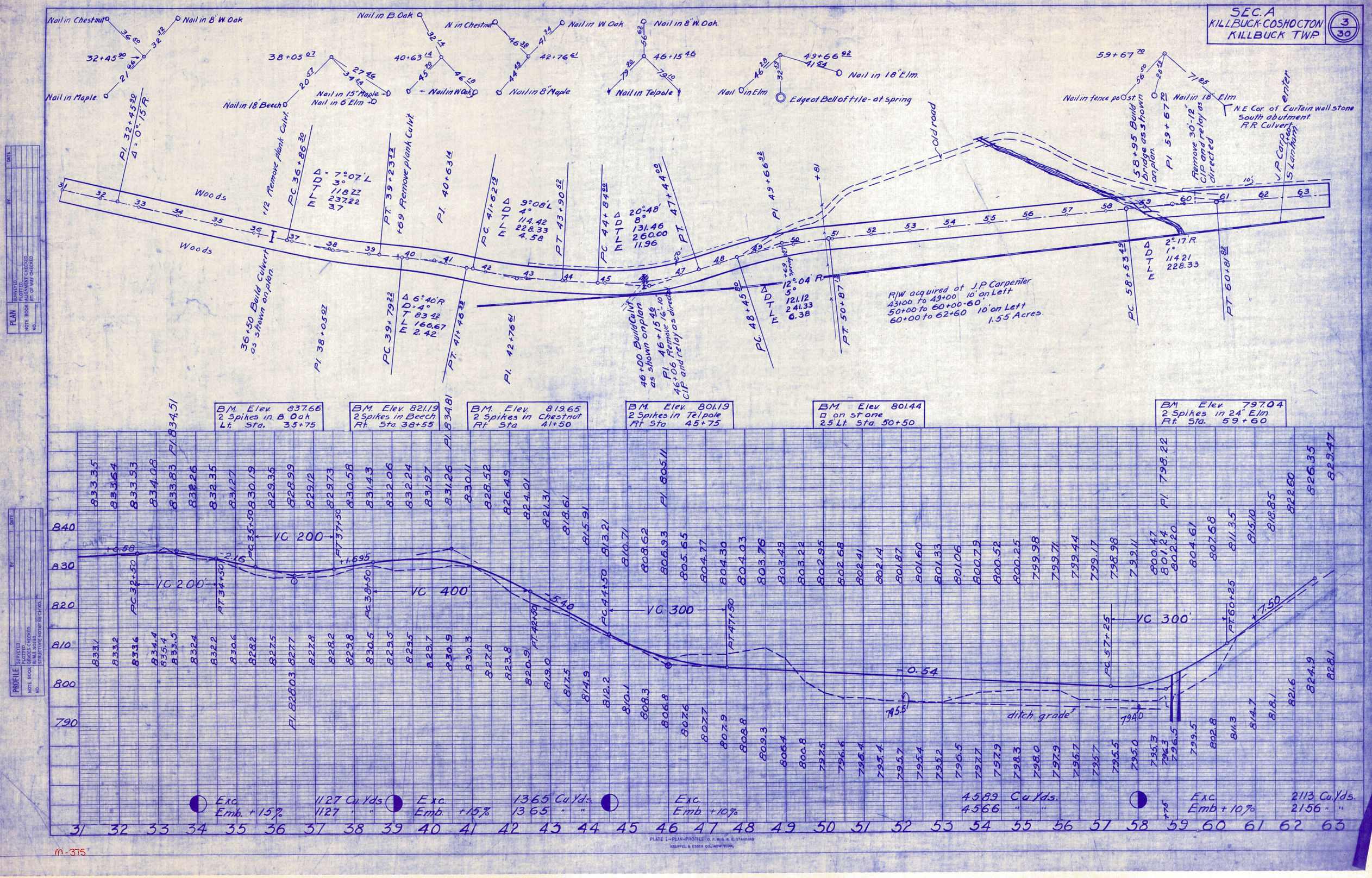
Approved July 5-1927
Karl Snyder
County Surveyor.

We, the Commissioners of Holmes County hereby approve the plans and certify that the Right of Way 60' Wide is available for the construction, maintenance and repair of the above highway.

Approved July 5-1927
K. K. Allison
J. A. Millet
G. M. Hanna
County Commissioners

M-365


SEC. A
KILLBUCK-COSHOCTON
KILLBUCK TWP
2/30
Nail in Walnut
0+00
Nail in Crossing signpost
Pl. 8+85.80
Nail in 2x2 hub
Nail in Elm fence post
Nail in 8" Walnut
Pl. 18+56.50
Nail in W. Oak
Nail in Red Oak
Pl. 22+15.50
Nail in 10" Walnut
Nail in 6" Beech
Pl. 26+45.20
Nail in 8" poplar
Nail in 8" Poplar
0+00 Beg. + of Project
E. Carpenter
3+27 Oil Well Drive
Lay 30' 12" V.S.P.
5+85 Build Extension as shown on bridge plan
P.C. 6+96.27
Δ = 18°47' L
D = 5°
T = 189.53
L = 375.67
E = 15.57
P.T. 10+71.94
10+82 Oil well
R/W acquired of E. Carpenter At Curve 0.206A.
14+80 Build extension as shown on bridge plan
P.R.R. - DRESDEN BRANCH
8+33 Build culvt. - see plan
Pl. 8+85.80
E. Carpenter
P.C. 17+31.50
Δ = 19°48' R
D = 8°
T = 125.00
L = 247.50
E = 10.83
P.T. 19+79.00
P.C. 21+13.90
Δ = 10°8' R
D = 5°
T = 101.60
L = 202.66
E = 4.62
P.T. 23+15.56
P.C. 25+65.16
Δ = 3°12' L
D = 2°
T = 80.04
L = 160.00
E = 1.1
P.T. 27+25.16
E. Carpenter
J.P. Carpenter
Pl. 26+45.20
+34 Remove and relay 16-10" C.I.P. as directed
J.P. Carpenter
29+00 Build culvt as shown on bridge plan
BM. Elev. 813.46
2 Spikes in Walnut
Left Sta 0-20
BM. Elev. 806.20
N.E. Cor. South Abutment
Sta. 5+89
BM. Elev. 810.90
□ on N.W. Cor. of parapet
Sta. 14+75
BM. Elev. 826.82
2 Spikes in 30" Beech
Rt. Sta. 20+75
BM. Elev. 824.39
2 Spikes in W. Oak
Rt. Sta 29+95
Pl. 804.10
Pl. 813.25
Pl. 829.00
Pl. 844.21
Pl. 831.32
VC. 200'
VC. 250'
VC. 400'
-0.74
+1.22
+6.30
-3.38
-3.68
+0.58
Exc. 306 Cu. Yd. Fill + 15% 301 " "
Exc. Emb + 15%
1723 Cu. Yds. 1750 " "
Exc. Emb + 15%
781 Cu. Yds. 781 " "
Exc. Emb + 15%
558 Cu. Yds. 559 " "
Exc. Emb + 15%
1546 Cu. Yds. 1546 " "
Exc. Emb + 10%
991 Cu. Yds. 984 " "
PLATE 1 - PLAN-PROFILE O. P. R. & R. E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.
PLAN
PROFILE
m-370


SEC. A
KILLBUCK-COSHOCTON
KILLBUCK TWP.
3
30
Nail in Chestnut
Nail in 8" W. Oak
Nail in Maple
Nail in 18" Beech
Nail in 15" Maple
Nail in 6" Elm
Nail in B. Oak
N. in Chestnut
Nail in W. Oak
Nail in 8" Maple
Nail in Telpole
Nail in Elm
Edge of Bell of tile - at spring
Nail in 18" Elm
Nail in fence post
N.E. Cor. of Curtain wall stone South abutment R.R. Culvert
Woods
Old road
36+50 Build Culvert as shown on plan
46+00 Build Culvert as shown on plan
46+06 Remove 16'-10" C.I.P. and relay as directed
58+95 Build bridge as shown on plan
Remove 30'-12" C.I.P. and relay as directed
R/W acquired of J.P. Carpenter
43+00 to 49+00 10' on Left
50+00 to 60+00 - 60'
60+00 to 62+60 10' on Left
1.55 Acres
BM. Elev. 837.66
2 Spikes in B. Oak
Lt. Sta. 35+75
BM. Elev. 821.19
2 Spikes in Beech
Rt. Sta. 38+55
BM. Elev. 819.65
2 Spikes in Chestnut
Rt. Sta. 41+50
BM. Elev. 801.19
2 Spikes in Telpole
Rt. Sta. 45+75
BM. Elev. 801.44
□ on stone
25' Lt. Sta. 50+50
BM. Elev. 797.04
2 Spikes in 24" Elm
Rt. Sta. 59+60
VC 200
VC 200'
VC 400'
VC 300
VC 300'
ditch grade
Exc. 1127 Cu. Yds.
Emb. +15% 1127 " "
Exc. 1365 Cu. Yds.
Emb. +15% 1365 " "
Exc. 4589 Cu. Yds.
Emb. +10% 4566 " "
Exc. 2113 Cu. Yds.
Emb. +10% 2156 " "
PLATE 1 - PLAN-PROFILE
KEUFFEL & ESSER CO. NEW YORK
M-375

SEC. A
KILLBUCK-COSHOCTON
KILLBUCK TWP
4
30

63+90.32 — Nail in 2" hubs.
68+31.28
Nail in root 20" Maple
Nail in Top of fence post.
67+65 Remove 28"-18"CIP and relay as directed. Build Culvert as per plan.
72+50.68 — Nail in post of Guard rail
74+68.94 — Nail in post of Guard rail
76+47.32 — Nail in post of Guard rail
79+44.60 — Nail in post of Guard rail
Nail in 12" W.O.
Nail in 12" W. Oak
Nail in R. Oak.
83+45.52
Nail in Telpole W. of Rail Road.
Nail in 15" Oak
Nail in 10" Oak.
86+78.22

R/W acquired of Sam Lanham
62+60 - 66+00 10' on Left
71+00 - 72+28 " " "
0.108 A.

R/W acquired of Robt. Hoxworth.
75+50 - 79+00 - 10' on Left
79+00 - 86+00 - 5' " "
89+00 to 93+85 - 60'
0.828 Acres.

+30 Remove 18"-12"CIP
+35 Build Culvert as shown on plans.
Sam Lanham
Nancy Gray
Marcy Gray / R. Hoxworth
+50 Remove 16"-10"CIP and relay as directed. +50 Build Culvert as shown on plans.
+35 Build Culvert as shown on plans.
Old road
Old G. Rail
End of old G. Rail

Pl. 63+90.32
PC. 63+05.50 — Δ = 8°28' D = 5° T = 84.82 L = 169.33 E = 3.14
PT 64+74.83
PC 65+96.60
Pl. 68+31.28
Δ = 11°41' D = 2°30' T = 234.48 L = 467.33 E = 11.96
70+35 Beg. old G. Rail
PT 70+64.93
PC 71+91.88 — Δ = 5°53' D = 5° T = 58.88 L = 117.66 E = 1.5
PT 73+09.46
Pl. 72+50.68
Pl. 74+68.94
PC. 74+17.80 — Δ = 5°06' D = 5° T = 51.04 L = 102.00 E = 1.14
PT 75+19.80
Pl. 76+47.32
PC 75+90.50 — Δ = 4°34' D = 4° T = 57.12 L = 114.17 E = 1.15
PT 77+04.37
PC. 78+81.20 — Δ = 6°20' D = 5° T = 63.40 L = 126.60 E = 1.76
PT 80+07.80
Pl. 79+44.60
Pl. 80+34
Pl. 82+01.50
PC 82+01.50 — Δ = 11°29' D = 4° T = 144.02 L = 287.08 E = 7.22
Pl. 83+45.52
PT 84+88.58
PC. 85+76.30 — Δ = 12°11' D = 6°11' T = 101.92 L = 203.05 E = 5.42
PT 87+79.35
Pl. 86+78.22
Pc. 88+78.22 DTVE
Pl. 90+07.60
Pl. 92+75 Build Culvert as shown on plan
PT 91+35.85 — 25°47' 10° 131.15 25.85 14.82
Pc. 92+35.85 DTVE

90+09.95
57.30 — Nail in dead W.O.
36.34 — Nail in 8" B. Oak
55.78
Nail in 24" W.O.

BM Elev. 811.74
2 Nails in root Walnut
Lt Sta 69+30

BM Elev. 817.34
2 Spikes in W. Oak
Lt 85+50

BM Elev. 803.15
Gov. Bench
Rt. Sta. 87+95

826.35 829.47 831.35 831.94 Pl 823.76 831.30 829.37 826.20 822.78 819.89 817.70 816.14 815.24 814.97 815.34 816.36 817.70 819.04 820.38 821.92 823.84 Pl 823.08 826.13 828.80 831.66 834.01 835.33 835.62 Pl 840.24 834.89 833.14 830.34 827.04 824.02 821.56 Pl 820.44 819.67 818.34 817.29 816.24 815.15 813.99 Pl 814.14 812.75 811.44 810.09 808.74 807.61 806.60 Pl 806.04 806.41 806.50 806.73 806.96 807.19 807.42 807.65 807.88 808.11 808.34 808.82 809.79 811.26 Pl 809.03 813.22 815.68 818.63 821.76 824.43 826.58 Pl 828.23 828.19

824.9 828.1 830.6 832.2 830.7 827.5 823.6 820.2 816.2 812.8 810.4 809.1 808.9 809.2 810.2 814.0 818.1 820.0 822.2 822.7 822.5 822.9 823.2 832.0 833.6 836.2 835.4 835.8 834.3 830.5 826.4 823.6 821.6 819.8 818.1 817.0 814.9 814.1 812.6 810.2 808.6 807.3 806.6 805.6 805.3 805.5 805.7 805.8 805.2 804.9 804.3 804.2 803.6 803.5 803.4 802.8 804.2 808.2 810.2 814.4 818.6 821.6 826.9 826.9

VC. 300' — PC 62+50 — PT 64+65.50 — Pl. 63+90.32 — +7.50 — +2.68
VC. 400' — PT 69+50 — Pl. 68+31.28 — Pl. 72+50.68 — Pl. 74+68.94
VC. 200' — PC 71+00 — PT 73+00 — Pl. 76+47.32 — +5.12
VC. 300' — PC 73+50 — Pl. 79+44.60
VC. 200' — PT 76+50 — PT 79+00 — Pl. 80+34 — +2.10
VC. 200' — PC 80+00 — PT 82+00 — Pl. 83+45.52 — +2.70
VC. 200' — PC 83+00 — PT 85+00 — Pl. 86+78.22 — +0.46
VC 300' — PC. 89+00 — PT 92+00 — Pl. 90+07.60 — +6.40
VC. 250' — PC 92+25

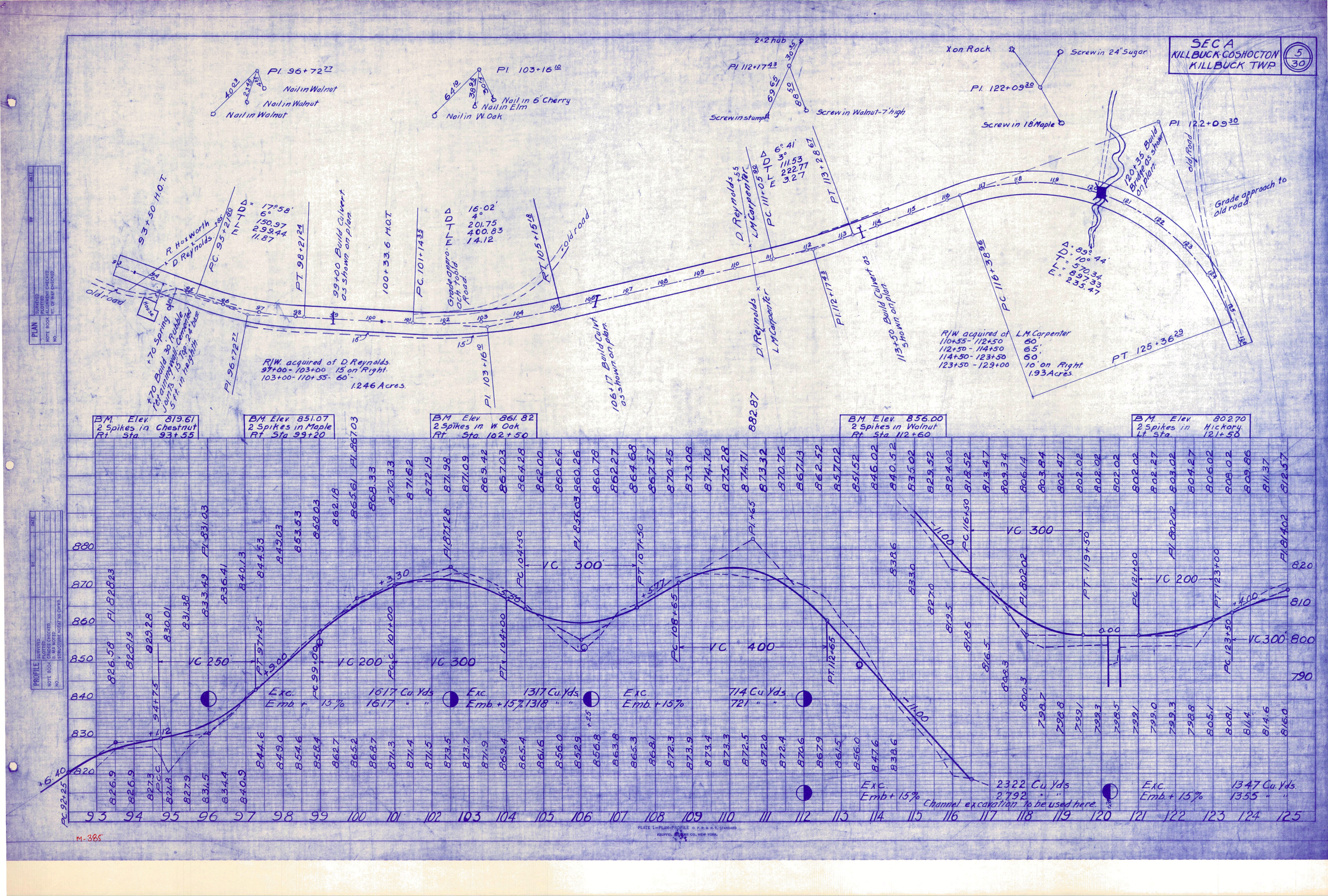
Exc. Emb + 15%
4240 Cu Yds
4181 " "
59 Yds to be placed in barnyard.
Exc. Emb + 15%
8139 Cu. Yds
7829 " "

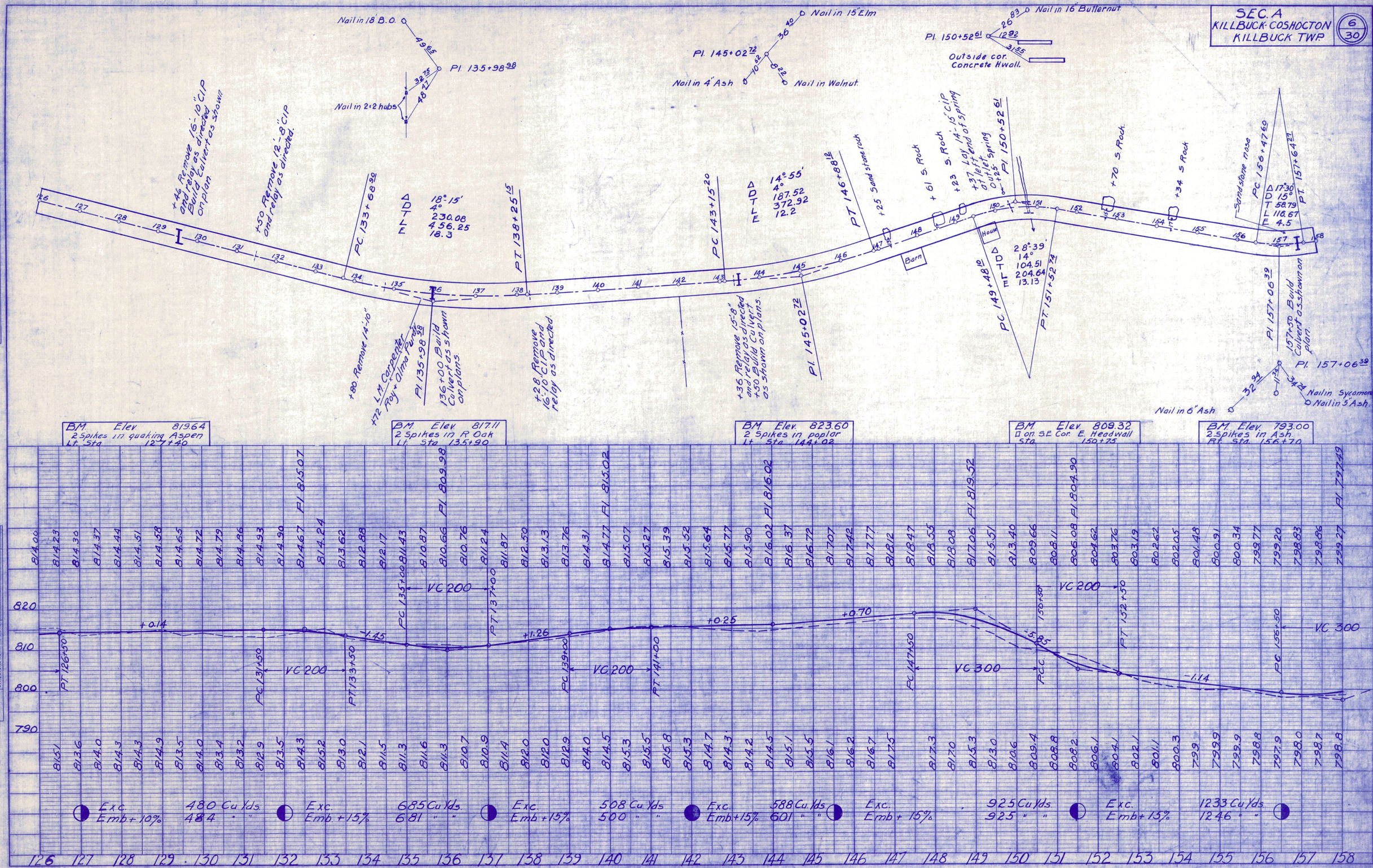
62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94

PLAN — SURVEYED, PLOTTED, NOTE BOOK, JUDGMENT CHECKED, RIT. OF WAY CHECKED, NO., BY, DATE
PROFILE — SURVEYED, PLOTTED, GRADES CHECKED, NOTE BOOK, MISC. STRUCTURE NOTATIONS CH-NO.

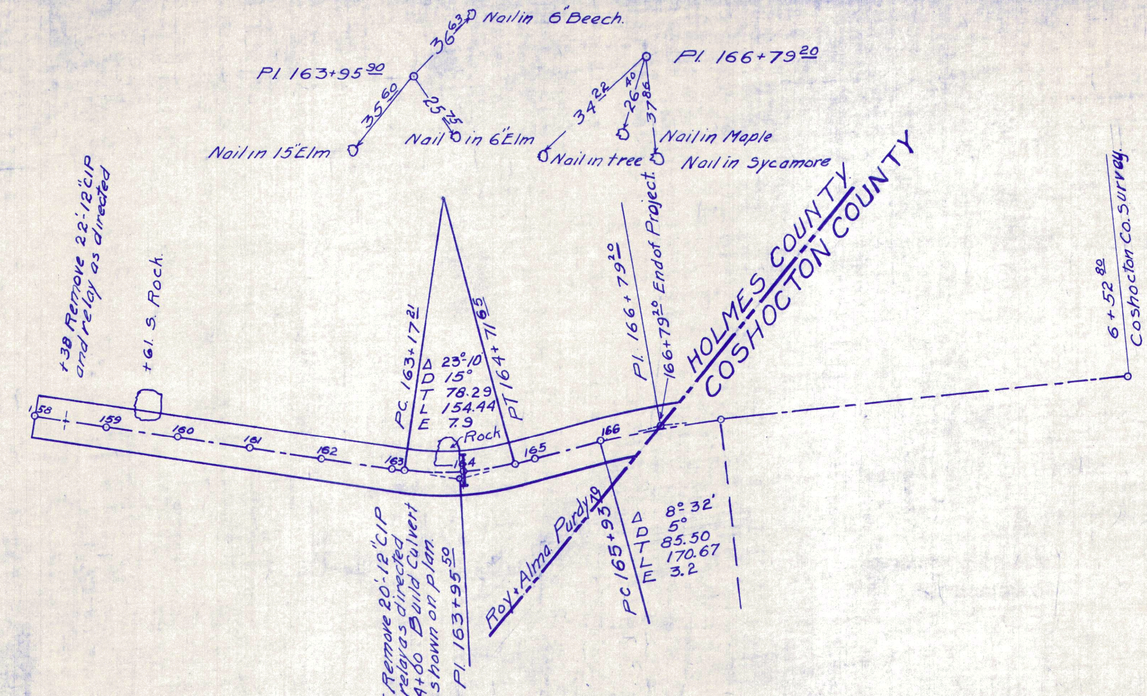
PLATE 1—PLAN-PROFILE O. P. R. & R. E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.

m-380


SEC A
KILLBUCK-COSHOCTON
KILLBUCK TWP.
5/30
PLAN
PROFILE
Pl. 96+72.77
Nail in Walnut
Nail in Walnut
Nail in Walnut
Pl. 103+16.10
Nail in 6" Cherry
Nail in Elm
Nail in W. Oak
2x2 hub
Pl. 112+17.43
Screw in stump
Screw in Walnut-7' high
X on Rock
Screw in 24" Sugar
Pl. 122+09.30
Screw in 18" Maple
Pl. 122+09.30
93+50 H.O.T.
R. Hoxworth
D. Reynolds
P.C. 95+21.80
Δ = 17°58'
D 6°
T 150.97
L 299.44
E 11.87
PT. 98+21.24
99+00 Build Culvert as shown on plan
100+33.6 H.O.T.
P.C. 101+14.35
Grade approach to old road
Δ 16°02'
D 4°
T 201.75
L 400.83
E 14.12
PT. 105+15.18
old road
D. Reynolds
L.M. Carpenter
P.C. 111+05.90
Δ 6°41'
D 3°
T 111.53
L 222.77
E 3.27
PT. 113+28.67
120+35 Build Bridge as shown on plan
old road
Grade approach to old road
Δ = 89°44'
D = 10°44'
T = 570.34
L = 897.33
E = 235.47
old road
House
+70 Spring
+70 Build 30' Rubble retaining wall. Cemented joints. 15' Top. 24" base. 5 ft. in height
Pl. 96+72.77
R/W. acquired of D. Reynolds.
97+00 - 103+00 15' on Right.
103+00 - 110+55 - 60' -
1.246 Acres.
Pl. 103+16.10
106+17 Build Culvt. as shown on plan
D. Reynolds
L.M. Carpenter
Pl. 112+17.43
113+50 Build Culvert as shown on plan
P.C. 116+38.96
R/W acquired of L.M. Carpenter
110+55 - 112+50 60'
112+50 - 114+50 65'
114+50 - 123+50 60'
123+50 - 129+00 10' on Right
1.93 Acres.
PT 125+36.29
BM. Elev. 819.61
2 Spikes in Chestnut
Rt. Sta. 93+55
BM. Elev. 851.07
2 Spikes in Maple
Rt. Sta. 99+20
BM. Elev. 861.82
2 Spikes in W. Oak
Rt. Sta. 102+50
BM. Elev. 856.00
2 Spikes in Walnut
Rt. Sta. 112+60
BM. Elev. 802.70
2 Spikes in Hickory
Lt. Sta. 121+50
VC 250
VC 200
VC 300
VC 300
VC 400
VC 300
VC 200
VC 300
Exc. 1617 Cu. Yds.
Emb. + 15% 1617 " "
Exc. 1317 Cu. Yds.
Emb. + 15% 1318 " "
Exc. 714 Cu. Yds.
Emb. + 15% 721 " "
Exc. 2322 Cu. Yds.
Emb. + 15% 2792 " "
Exc. 1347 Cu. Yds.
Emb. + 15% 1355 " "
Channel excavation to be used here.
PLATE I—PLAN-PROFILE O. P. R. & R. E. STANDARD
KEUFFEL & ESSER CO. NEW YORK.
M-385


SEC. A
KILLBUCK-COSHOCTON
KILLBUCK TWP.
6
30
Nail in 18" B.O.
Pl. 135+98.98
Nail in 2×2 hubs
Nail in 15" Elm
Pl. 145+02.72
Nail in 4" Ash
Nail in Walnut
Nail in 16" Butternut
Pl. 150+52.61
Outside cor. Concrete Hwall.
+46 Remove 16'-10" C.I.P. and relay as directed. Build Culvert as shown on plan.
+50 Remove 12'-8" C.I.P. and relay as directed.
PC 133+68.90
Δ 18°15'
D 4°
T 230.08
L 456.25
E 18.3
PT 138+25.15
PC 143+15.20
Δ 14°55'
D 4°
T 187.52
L 372.92
E 12.2
PT 146+88.12
+25 Sandstone rock
+61 S. Rock
+23 S. Rock
+37 Lay 14'-15" C.I.P. at left end of spring outlet
+25 Spring
Pl. 150+52.61
+70 S. Rock
+34 S. Rock
Sandstone nose
PC 156+47.60
Δ 17°30'
D 15°
T 58.79
L 116.67
E 4.5
PT 157+64.27
Barn
House
PC 149+48.10
Δ 28°39'
D 14°
T 104.51
L 204.64
E 13.13
PT 151+52.74
+80 Remove 14'-10"
L.M. Carpenter
+72 Roy + Alma Purdy
Pl. 135+98.98
136+00 Build Culvert as shown on plans.
+28 Remove 16'-10" C.I.P. and relay as directed.
+36 Remove 15'-8" and relay as directed. +50 Build Culvert as shown on plans.
Pl. 145+02.72
Pl. 157+06.39
157+50 Build Culvert as shown on plan.
Pl. 157+06.39
Nail in Sycamore
Nail in 5" Ash
Nail in 6" Ash
BM. Elev. 819.64
2 Spikes in quaking Aspen
Lt. Sta. 127+40
BM. Elev. 817.11
2 Spikes in R. Oak
Lt. Sta. 135+90
BM. Elev. 823.60
2 Spikes in poplar
Lt. Sta. 144+02
BM. Elev. 809.32
□ on S.E. Cor. E. Headwall
Sta. 150+75
BM. Elev. 793.00
2 Spikes in Ash
Rt. Sta. 156+70
Pl. 815.07
Pl. 809.98
Pl. 815.02
Pl. 816.02
Pl. 819.52
Pl. 804.90
Pl. 797.49
VC 200
VC 300
PT 126+50
PC 131+50
PT 133+50
PC 135+00
PT 137+00
PC 139+00
PT 141+00
PC 147+50
PT 152+50
PC 156+50
+0.14
-1.45
+1.26
+0.25
+0.70
-5.85
-1.14
820
810
800
790
Exc. 480 Cu. Yds. Emb. + 10% 484 " "
Exc. 685 Cu. Yds. Emb. + 15% 681 " "
Exc. 508 Cu. Yds. Emb. + 15% 500 " "
Exc. 588 Cu. Yds. Emb. + 15% 601 " "
Exc. 925 Cu. Yds. Emb. + 15% 925 " "
Exc. 1233 Cu. Yds. Emb. + 15% 1246 " "
126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158
PLATE 1 - PLAN-PROFILE O. P. R. & R. E. STANDARD
KEUFFEL & ESSER CO. NEW YORK.
PLAN
PROFILE
m-390

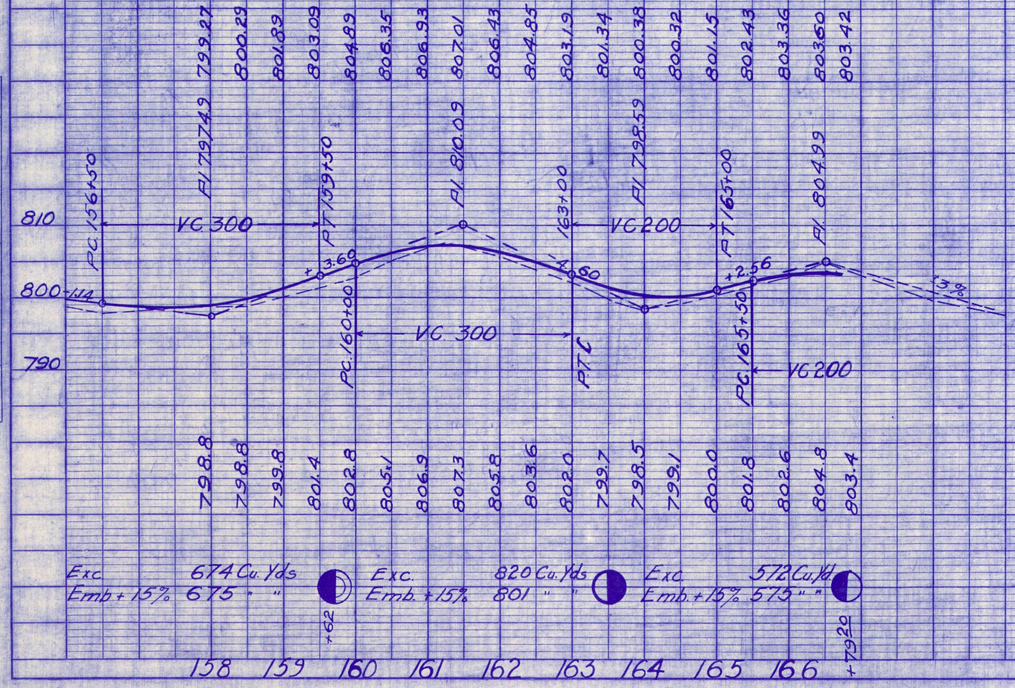
SEC A
KILLBUCK-COSHOCTON
KILLBUCK TWP
7
30



BM. Elev. 802.62
2 Spikes in Beech
Rt. Sta. 161+15

BM Elev. 802.69
2 Spikes in Ash
Rt. Sta 164+35

BM Elev. 794.61
2 Spikes in Sycamore
Rt. Sta 166+60



PLAN
SURVEYED
PLOTTED
GRADES CHECKED
R.R. & HWY. CROSS. CHECKED
RT. OF WAY CHECKED
NOTE BOOK
NO.
BY
DATE

PROFILE
SURVEYED
PLOTTED
GRADES CHECKED
R.R. & HWY. CROSS. CHECKED
STRUCTURE NOTATIONS CHECKED
NOTE BOOK
NO.
BY
DATE

m-395

PLATE 1—PLAN-PROFILE O. P. R. & R. E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.

SEC. A
KILLBUCK-COSHOCTON
KILLBUCK TWP
8
30

End Area C	End Area F	Cu. yd. C	Cu. yd. F	Station	Elevation
	0 248				
0 76				6+32	806.32
	0 202				
0 33				7+00	807.06
	0 12				
0 32				5+90	807.0
Bridge					
0 36				5+73.5	807.5
	0 179				
0 88				5+00	805.8
	0 372				
0 113				4+00	805.6
	0 380				
0 92				3+00	806.6
	83 207				
45 20		3066 Cu Yds		2+00	809.9
	130 46	301 "			
25 5		Exc. Emb. 15%		1+00	811.2
	93 9				
25 0				0+00	812.0

End Area C	End Area F	Cu. yd. C	Cu. yd. F
15 4			
	251 6		
200 0			
	309 0		
305 0			
	611 0		
355 0			
	602 0		
295 0			
	454 0		
195 0			
	217 6	1723 Cu Yds	
40 6		1750 "	
	17 9	Exc. Emb. 15%	
6 19			
	9 114		
0 58			

Station	Elevation
12+00	806.54
	807.1
11+33	805.73
	812.3
11+00	805.32
	812.2
10+50	804.83
	811.1
10+00	804.59
	810.7
9+50	804.59
	809.9
9+00	804.84
	804.8
8+80	805.03
	803.9
8+00	805.58
	804.2

ORIGINAL SURVEY — SURVEYED, PLOTTED, TEMPLATE, AREAS CHECKED — NOTE BOOK, NO., BY, DATE

FINAL SURVEY — SURVEYED, PLOTTED, TEMPLATE, AREAS CHECKED — NOTE BOOK, NO., BY, DATE

PLATE 3—CROSS SECTION O. P. R. & R. E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.

M-400

End Area C	End Area F	Cu. Yds C	Cu. Yds F
35.32			
		120	120
30.33			
		56	52
30.23			
		40	35
13.15			
		41	46
9.10			
		13	25
5.17			
		5	46
0.33			
		0	228
0.88			
		0	304
0.76			
		28	141

822.66
19+00
822.2

817.00
18+00
815.1

814.85
17+50
812.9

813.24
17+00
812.1

811.42
16+00
810.8

810.81
15+50
810.4

810.20
15+00
810.00

808.98
14+00
807.5

807.76
13+00
806.0

E.I.C. Embk. 15%

558 Cu. Yds.
559 "

E.I.C. Embk. 15%

781 Cu. Yds.
781 "

E.I.C. Embk. 15%

End Area C	End Area F	Cu. Yds C	Cu. Yds F
57.94			
		309	276
70.55			
		296	148
91.25			
		259	144
50.53			
		185	161
50.37			
		69	71
25.39			
		66	90
46.58			
		106	103
69.53			
		231	135
56.20			
		168	96

15.46 Cu. Yds.
15,510.46 "

E.I.C. Embk. 15%

20+50

838.46
26+00
838.0

840.36
25+00
840.1

840.52
24+00
840.5

838.92
23+00
838.3

837.45
22+50
836.9

835.76
22+00
835.2

834.07
21+50
833.0

832.34
21+00
831.0

828.09
20+00
827.8

SEC. A
KILLBUCK-COSHOCTON
KILLBUCK - TWP.
9/30

ORIGINAL SURVEY — SURVEYED, PLOTTED, TEMPLATE, AREAS, AREAS CHECKED, NOTE BOOK, NO., BY, DATE

FINAL SURVEY — SURVEYED, PLOTTED, TEMPLATE, AREAS, AREAS CHECKED, NOTE BOOK, NO., BY, DATE

PLATE 3—CROSS SECTION O. P. R. & R. E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.

SEC. A
KILLBUCK-COSHOCTON
KILLBUCK TWP.
10
30

End Areas		Cu. Yds.	
C	F	C	F
33.89			
112.87			
68.35			
96.28			
140.25			
113.35			
105.50			
194.204			
0.60			
37.117			
20.3			
50.61			
7.30			
96.56			
45.0			
163.28			
43.15			
85.247			
3.97			
185.354			

3A+00

833.26
34+00
832.4

833.83
33+50
833.5

834.04
33+25
835.4

834.08
33+00
834.4

833.64
32+00
833.2

391 Cu. Yds.
904 "
Enc. Emb. = 10%

833.06
31+00
833.2

832.48
30+00
832.1

831.90
29+00
833.5

832.38
28+00
833.6

835.00
27+00
833.3

26+80

End Areas		Cu. Yds.	
C	F	C	F
120.111			
70.35			
134.60			
75.30			
120.70			
55.45			
183.120			
35.85			
130.352			
35.105			
88.139			
60.45			
93.74			
40.35			
185.139			
60.40			
213.213			
55.75			
276.222			
94.45			
272.193			

1365 Cu. Yds.
1356 "
Enc. Emb. = 15%

3B+00

1127 Cu. Yds.
1127 "
Enc. Emb. = 15%

828.52
41+50
827.8

830.11
41+00
830.3

831.26
40+50
830.9

831.97
40+00
829.7

832.06
39+00
829.5

831.43
38+50
830.5

830.58
38+00
829.8

829.12
37+00
827.8

829.35
36+00
827.5

831.27
35+00
830.6

PLATE 3 - CROSS SECTION O. P. R. & R. E. STANDARD
KEUFFEL & ESSER CO. NEW YORK.

m-405

FINAL SURVEY
NOTE BOOK
NO.
SURVEYED
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED
BY
DATE

ORIGINAL SURVEY
NOTE BOOK
NO.
SURVEYED
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED
BY
DATE

SEC. A
KILLBUCK-COSHOCTON
KILLBUCK TWP.
11/30

End Areas C	End Areas F	Cu. Yds. C	Cu. Yds. F
		330.20	
165.11			
		338.13	
200.3			
		342.12	
170.10			
		249.28	
148.20			
		230.51	
100.35			
		167.102	
80.75			
		144.156	
75.94			
		125.165	
60.85			

808.62
45+50
808.3

810.71
45+00
810.1

813.21
44+50
812.2

815.91
44+00
814.9

818.61
43+50
817.5

821.31
43+00
819.0

824.01
42+50
820.9

826.49
42+00
823.8

End Areas C	End Areas F	Cu. Yds. C	Cu. Yds. F
		82.206	
84.83			
		212.84	
145.8			
		305.7	
185.0			
		512.0	
368.0			
		604.0	
285.0			
		491.0	
246.0			
		417.0	
204.0			
		366.9	
192.10			

803.22
49+50
800.8

803.49
49+00
806.4

803.76
48+50
809.3

804.03
48+00
808.3

804.30
47+50
807.9

804.77
47+00
807.7

805.65
46+50
807.6

806.93
46+00
806.8

FINAL SURVEY
SURVEYED
PLOTTED
TEMPLATE
CHECKED
AREAS CHECKED
NOTE BOOK
NO.
BY
DATE

ORIGINAL SURVEY
SURVEYED
PLOTTED
TEMPLATE
CHECKED
AREAS CHECKED
NOTE BOOK
NO.
BY
DATE

PLATE 3—CROSS SECTION O. P. R. & R. E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.

m-410

SEC. A
KILLBUCK-COSHOCTON
KILLBUCK TWP
12
30

End Area Cu Yds. C	F	C	F
0	195		
		15	556
8	105		
		35	380
11	100		
		83	283
34	53		
		126	209
34	60		
		106	278
23	90		
		48	522
3	192		
		6	744
0	210		
		0	741
0	190		
		0	312
0	187		
		4	308
5	140		

802.20
59+00
796.5

799.11
58+00
795.0

799.17
57+00
795.7

799.71
56+00
797.9

800.25
55+00
798.3

800.79
54+00
797.7

801.33
53+00
795.2

801.87
52+00
795.7

802.41
51+00
796.4

802.68
50+50
796.6

802.95
50+00
797.5

End Area Cu Yds. C	F	C	F
		330	42
150	28		
		255	57
125	34		
		212	65
104	25		
		143	60
50	40		
		65	88
20	55		
		37	139
20	91		
		40	237
23	165		
		22	301
0	160		
		0	328

2113 Cu. Yds.
2156.

End Area Emb. 1.10% 4566 Cu. Yds. 1589

829.47
63+00
828.1

826.35
62+50
824.9

822.60
62+00
821.6

818.85
61+50
818.1

815.10
61+00
814.7

811.35
60+50
811.3

807.68
60+00
802.8

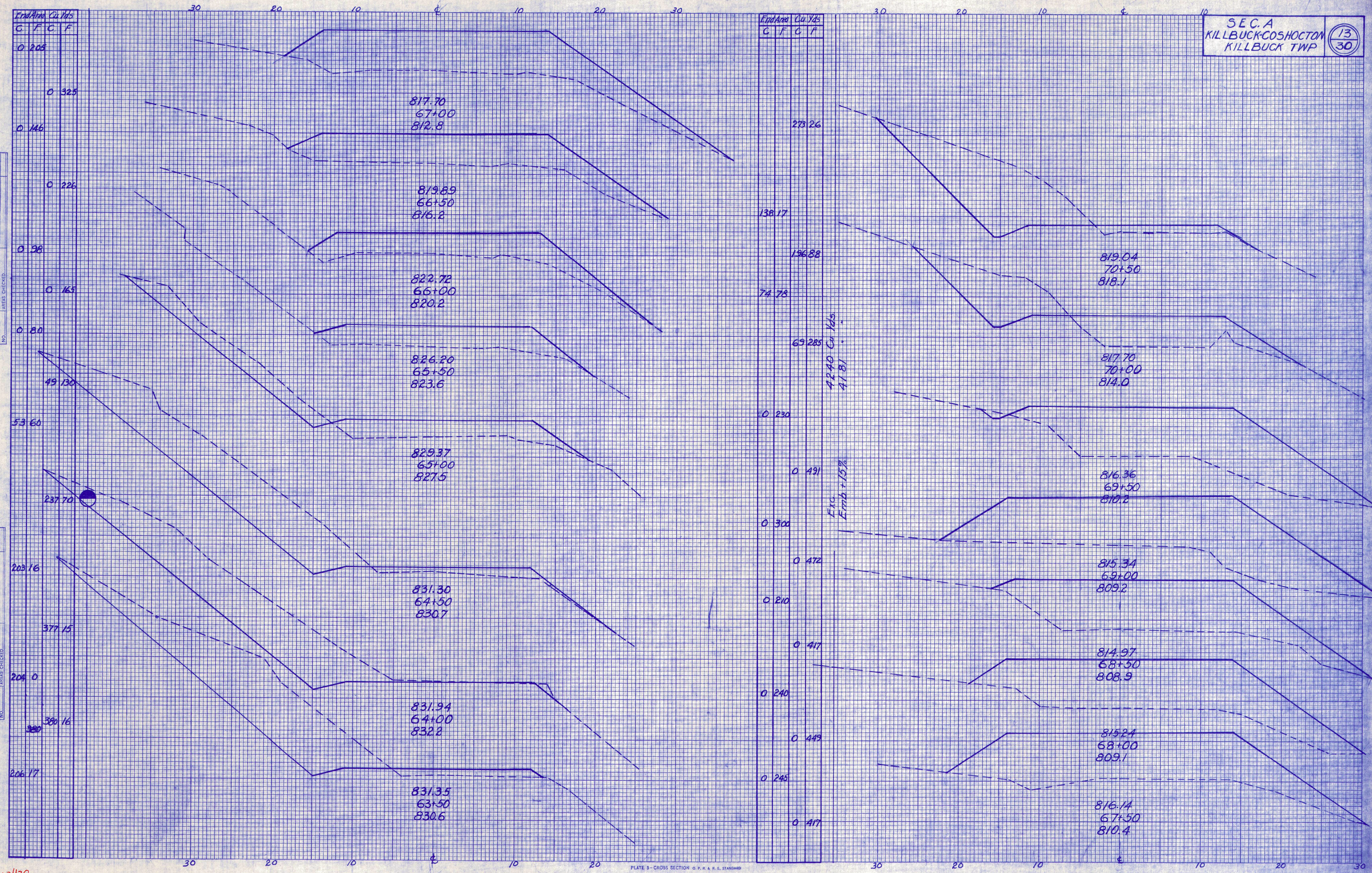
804.61
59+50
799.5

FINAL SURVEY
SURVEYED
PLOTTED
NOTE BOOK
NO.
TEMPLATE
AREAS
AREAS CHECKED
BY
DATE

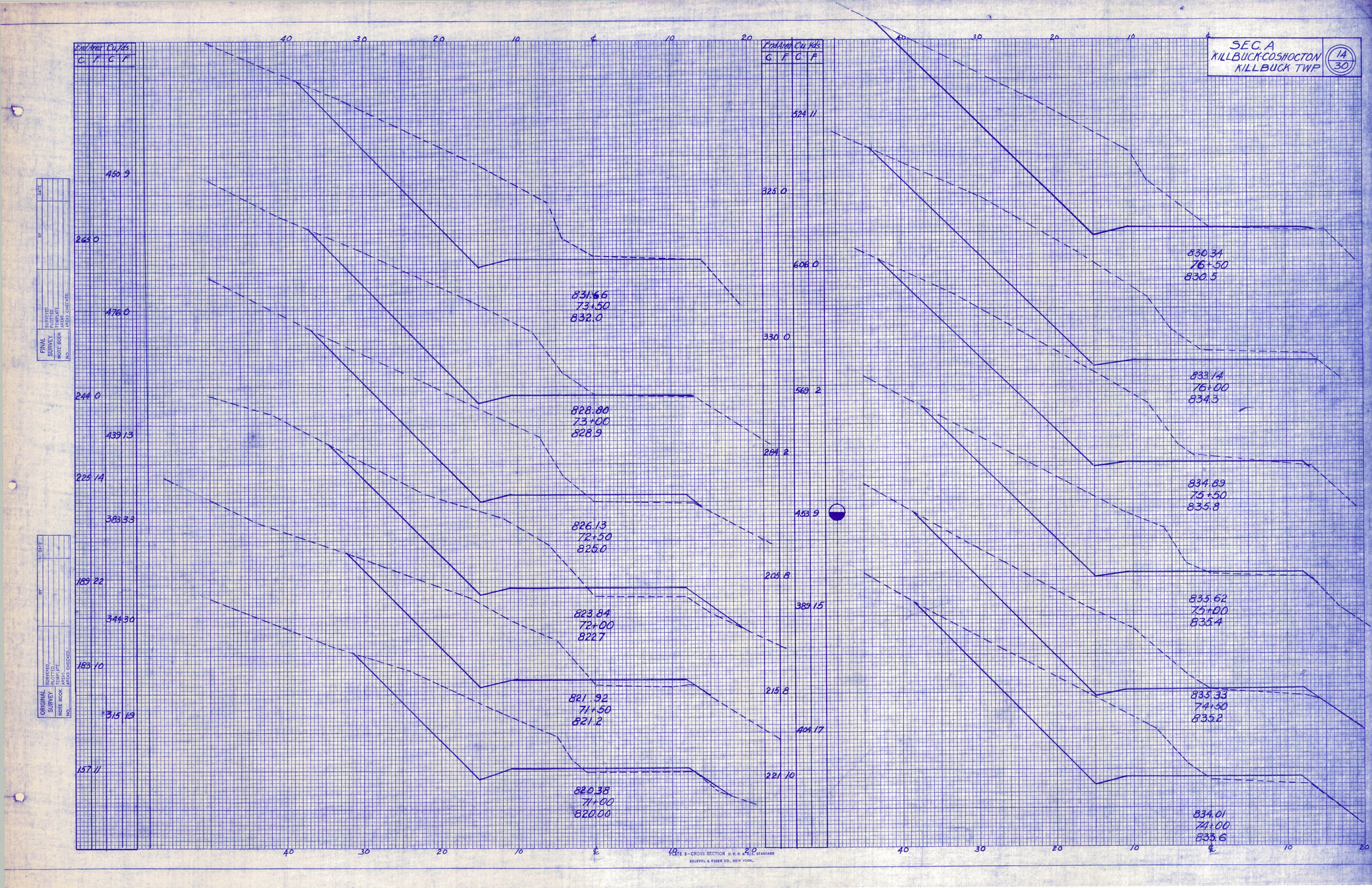
ORIGINAL SURVEY
SURVEYED
PLOTTED
NOTE BOOK
NO.
TEMPLATE
AREAS
AREAS CHECKED
BY
DATE

m-415

PLATE 3—CROSS SECTION O. P. R. & R. E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.


SEC. A
KILLBUCK-COSHOCTON
KILLBUCK TWP
13
30
End Area
Cu. Yds.
C
F
817.70
67+00
812.8
819.89
66+50
816.2
822.72
66+00
820.2
826.20
65+50
823.6
829.37
65+00
827.5
831.30
64+50
830.7
831.94
64+00
832.2
831.35
63+50
830.6
819.04
70+50
818.1
817.70
70+00
814.0
816.36
69+50
810.2
815.34
69+00
809.2
814.97
68+50
808.9
815.24
68+00
809.1
816.14
67+50
810.4
4240 Cu. Yds.
4181
Exc.
Emb. +15%
FINAL SURVEY
ORIGINAL SURVEY
NOTE BOOK
NO.
SURVEYED
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED
BY
DATE
PLATE 3 - CROSS SECTION O. P. R. & R. E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.

m-420


SEC. A
KILLBUCK-COSHOCTON
KILLBUCK TWP.
14/30
End Area Cu. Yds.
C F C F
450 9
265 0
476 0
244 0
439 13
225 14
383 33
189 22
344 30
183 10
315 19
157 11
524 11
325 0
606 0
330 0
569 2
284 2
453 9
205 8
389 15
215 8
404 17
221 10
831.66
73+50
832.0
828.80
73+00
828.9
826.13
72+50
825.0
823.84
72+00
822.7
821.92
71+50
821.2
820.38
71+00
820.00
830.34
76+50
830.5
833.14
76+00
834.3
834.89
75+50
835.8
835.62
75+00
835.4
835.33
74+50
835.2
834.01
74+00
833.6
40 30 20 10 ℄ 10 20
FINAL SURVEY
NOTE BOOK NO.
SURVEYED
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED
BY
DATE
ORIGINAL SURVEY
NOTE BOOK NO.
SURVEYED
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED
BY
DATE
PLATE 3-CROSS SECTION O. P. R. & R. E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.

SEC. A
KILLBUCK-COSHOCTON
KILLBUCK TWP.
15/30

End Area		Cu Yds	
C	F	C	F
160.3			
	333.3		
200.0			
	373.3		
203.3			
	420.5		
250.3			
	503.10		
293.8			
	434.19		
241.12			

817.29
79+50
817.0

818.34
79+00
818.1

819.67
78+50
819.8

821.56
78+00
821.6

824.02
77+50
823.6

827.04
77+00
826.4

End Area		Cu Yds	
C	F	C	F
	329.44		
169.18			
	340.20		
198.4			
	337.4		
166.0			
	323.6		
183.6			
	357.9		
203.4			
	336.6		

811.44
82+00
810.1

812.75
81+50
812.6

813.99
81+00
814.1

815.15
80+50
814.9

816.24
80+00
816.0

FINAL SURVEY
NOTE BOOK
NO.
SURVEYED
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED
BY
DATE

ORIGINAL SURVEY
NOTE BOOK
NO.
SURVEYED
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED
BY
DATE

m-425

PLATE 3-CROSS SECTION O.P.R. STANDARD
KEUFFEL & ESSER CO. NEW YORK

SEC. A
KILLBUCK-COSHOCTON
KILLBUCK TWP
16
30

End Area C	End Area F	Cu Yds C	Cu Yds F
		107	176
68	82		
		163	106
108	32		
		200	62
98	35		
		220	46
139	15		
		277	29
160	16		
		268	40
130	27		
		296	53
180	30		

806.73
85+50
805.7

806.50
85+00
805.5

806.41
84+50
805.3

806.60
84+00
805.6

807.61
83+50
806.6

808.74
83+00
807.3

810.09
82+50
808.6

End Area C	End Area F	Cu Yds C	Cu Yds F
0	245		
		2	433
2	223		
		2	416
0	226		
		0	402
0	208		
		0	339
0	158		
		0	270
0	133		
		35	253
38	140		
		76	244
44	123		
		90	216
53	110		
		94	202
48	108		

811.26
90+50
804.2

809.79
90+00
802.8

808.82
89+50
803.4

808.34
89+00
803.5

808.11
88+50
803.6

807.88
88+00
804.2

807.65
87+50
804.3

807.42
87+00
804.9

807.19
86+50
805.2

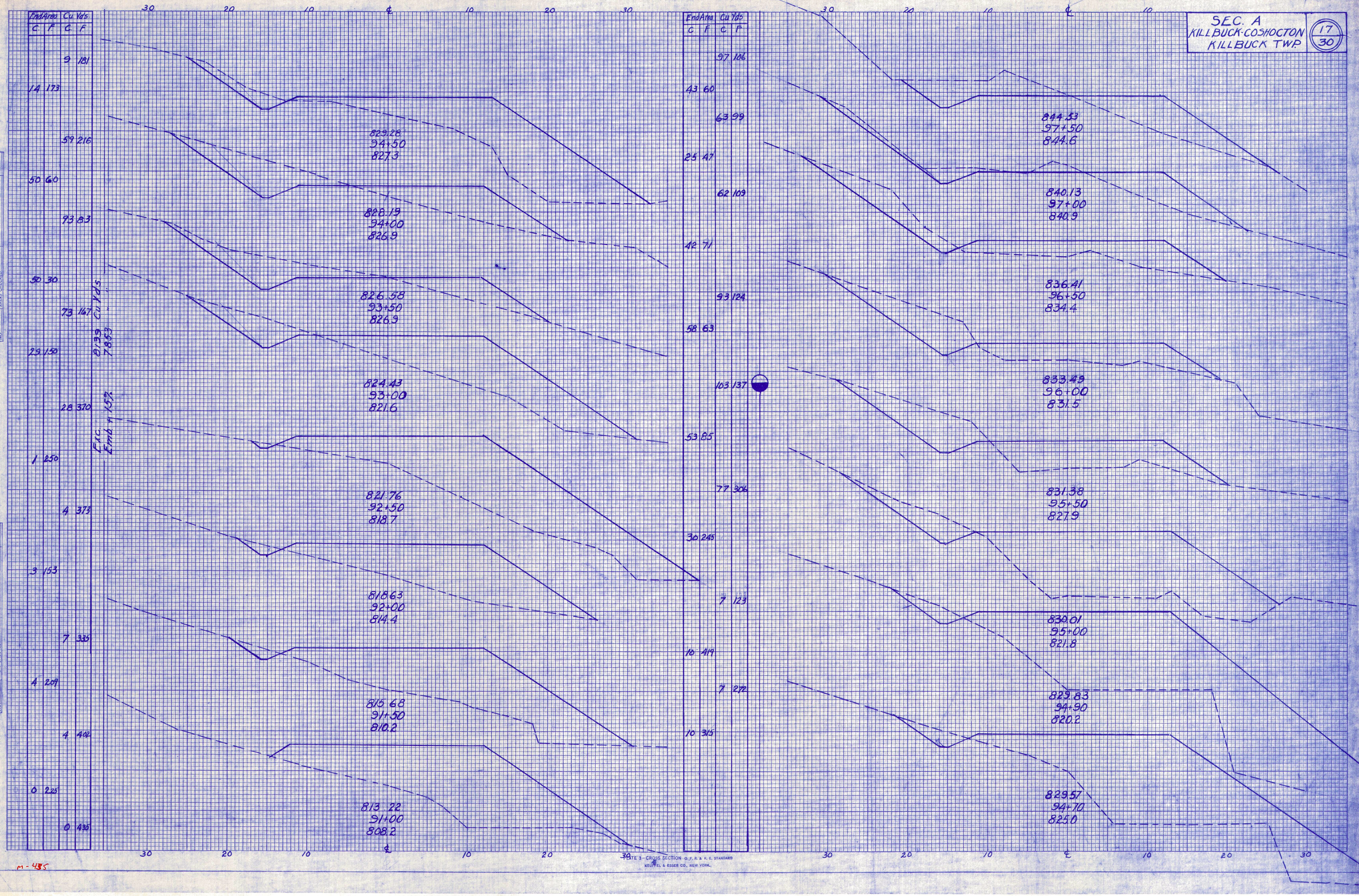
806.96
86+00
805.8

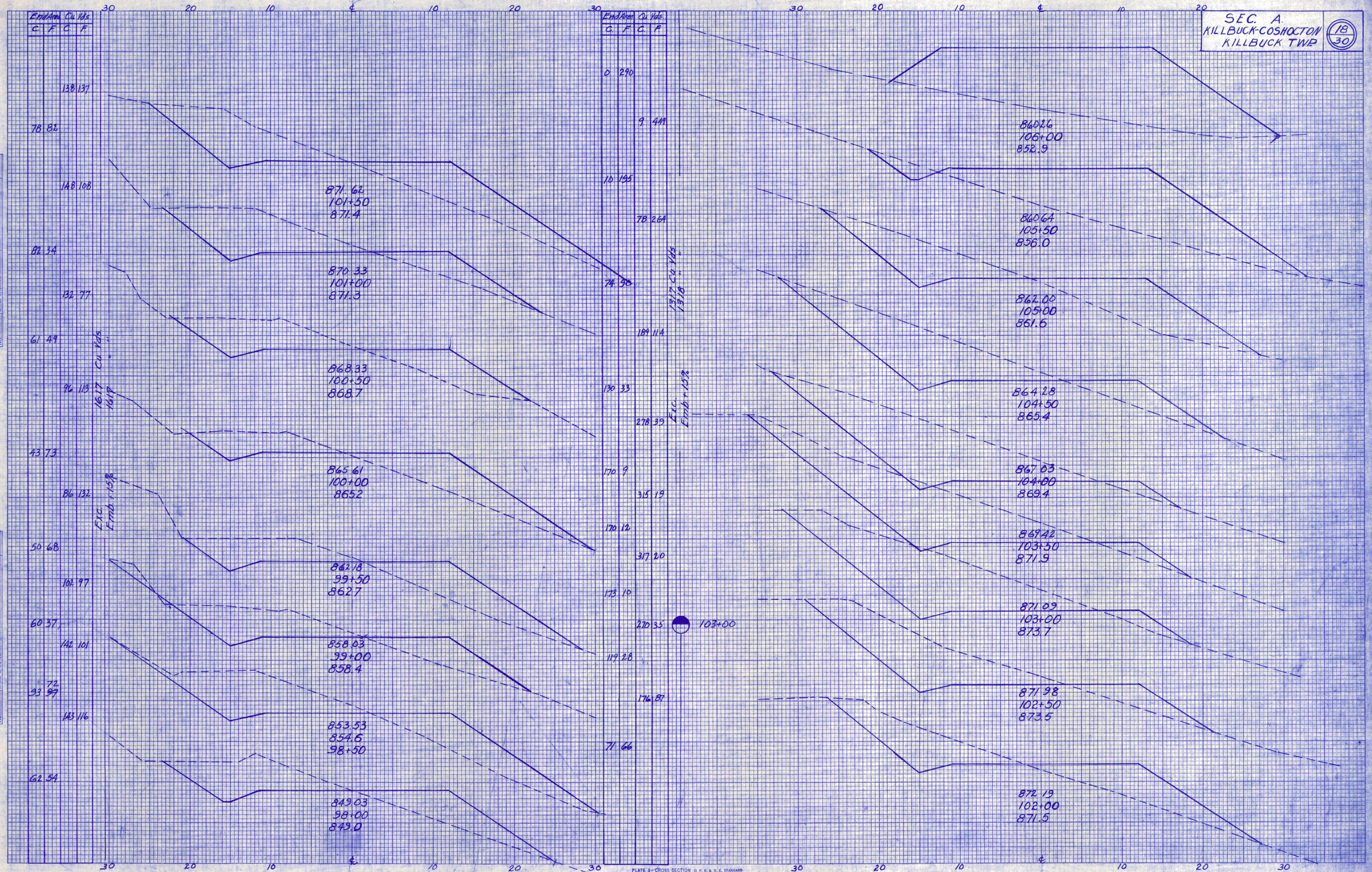
FINAL SURVEY		BY	DATE
	SURVEYED		
	PLOTTED		
	TRACED		
NOTE BOOK	TESTED		
NO.	AREAS CHECKED		

ORIGINAL SURVEY		BY	DATE
	SURVEYED		
	PLOTTED		
	TRACED		
NOTE BOOK	TESTED		
NO.	AREAS CHECKED		

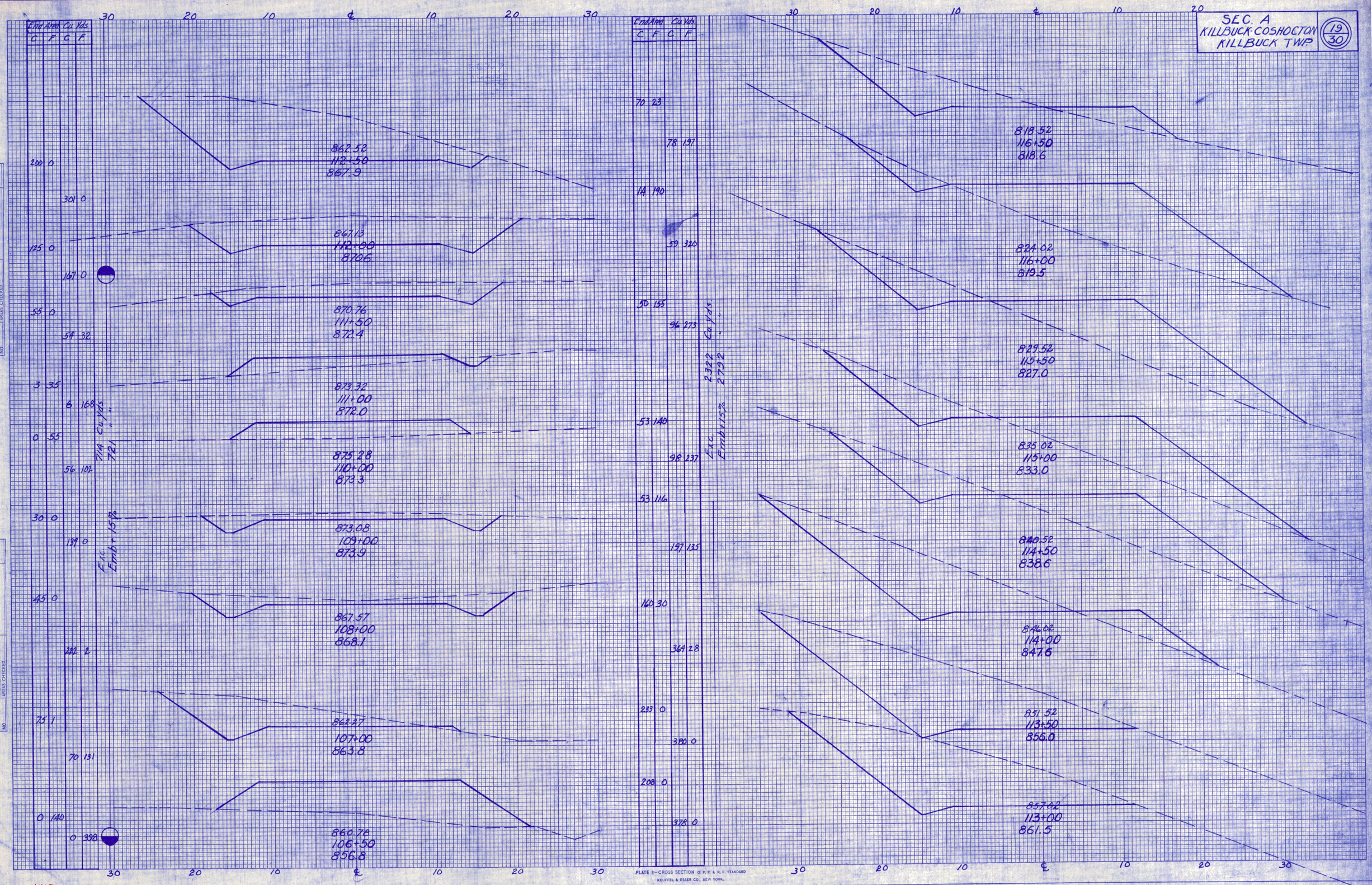
M-480

PLATE 3—CROSS SECTION O. P. R. & R. E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.


SEC. A
KILLBUCK-COSHOCTON
KILLBUCK TWP.
17
30
End Area C. F.
Cu. Yds. C. F.
9 181
14 173
59 216
50 60
93 83
50 30
73 167
29 150
28 370
1 250
4 373
3 153
7 335
4 209
4 402
0 225
0 435
Exc. 8139 Cu. Yds.
Emb. + 15% 7853
829.28
94+50
827.3
828.19
94+00
826.9
826.58
93+50
826.9
824.43
93+00
821.6
821.76
92+50
818.7
818.63
92+00
814.4
815.68
91+50
810.2
813.22
91+00
808.2
97 106
43 60
63 99
25 47
62 109
42 71
93 124
58 63
103 137
53 85
77 306
30 245
7 123
10 419
7 272
10 315
844.53
97+50
844.6
840.13
97+00
840.9
836.41
96+50
834.4
833.49
96+00
831.5
831.38
95+50
827.9
830.01
95+00
821.8
829.83
94+90
820.2
829.57
94+70
825.0
30 20 10 ℄ 10 20 30
FINAL SURVEY
NOTE BOOK NO.
SURVEYED
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED
BY
DATE
ORIGINAL SURVEY
NOTE BOOK NO.
SURVEYED
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED
BY
DATE
M-435
PLATE 3 - CROSS SECTION O. P. R. & R. E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.


SEC. A.
KILLBUCK-COSHOCTON
KILLBUCK TWP.
18
30
End Area C. F.
Cu. Vds. C. F.
78 82
138 137
148 108
82 34
132 77
61 49
96 113
43 73
86 132
50 68
102 97
60 37
142 101
93 72
143 116
62 54
1617 Cu. Vds.
1617 " "
Exc. Emb. +15%
871.62
101+50
871.4
870.33
101+00
871.3
868.33
100+50
868.7
865.61
100+00
865.2
862.18
99+50
862.7
858.03
99+00
858.4
853.53
854.6
98+50
849.03
98+00
849.0
0 290
9 449
10 195
78 264
74 90
189 114
130 33
278 39
170 9
315 19
170 12
317 20
173 10
270 35
119 28
176 87
71 66
1317 Cu. Vds.
1318 " "
Exc. Emb. +15%
103+00
860.26
106+00
852.9
860.64
105+50
856.0
862.00
105+00
861.6
864.28
104+50
865.4
867.03
104+00
869.4
869.42
103+50
871.9
871.09
103+00
873.7
871.98
102+50
873.5
872.19
102+00
871.5
30 20 10 ℄ 10 20 30
PLATE 3 - CROSS SECTION O. P. R. & R. E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.
FINAL SURVEY
ORIGINAL SURVEY
NOTE BOOK
NO.
SURVEYED
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED
BY
DATE

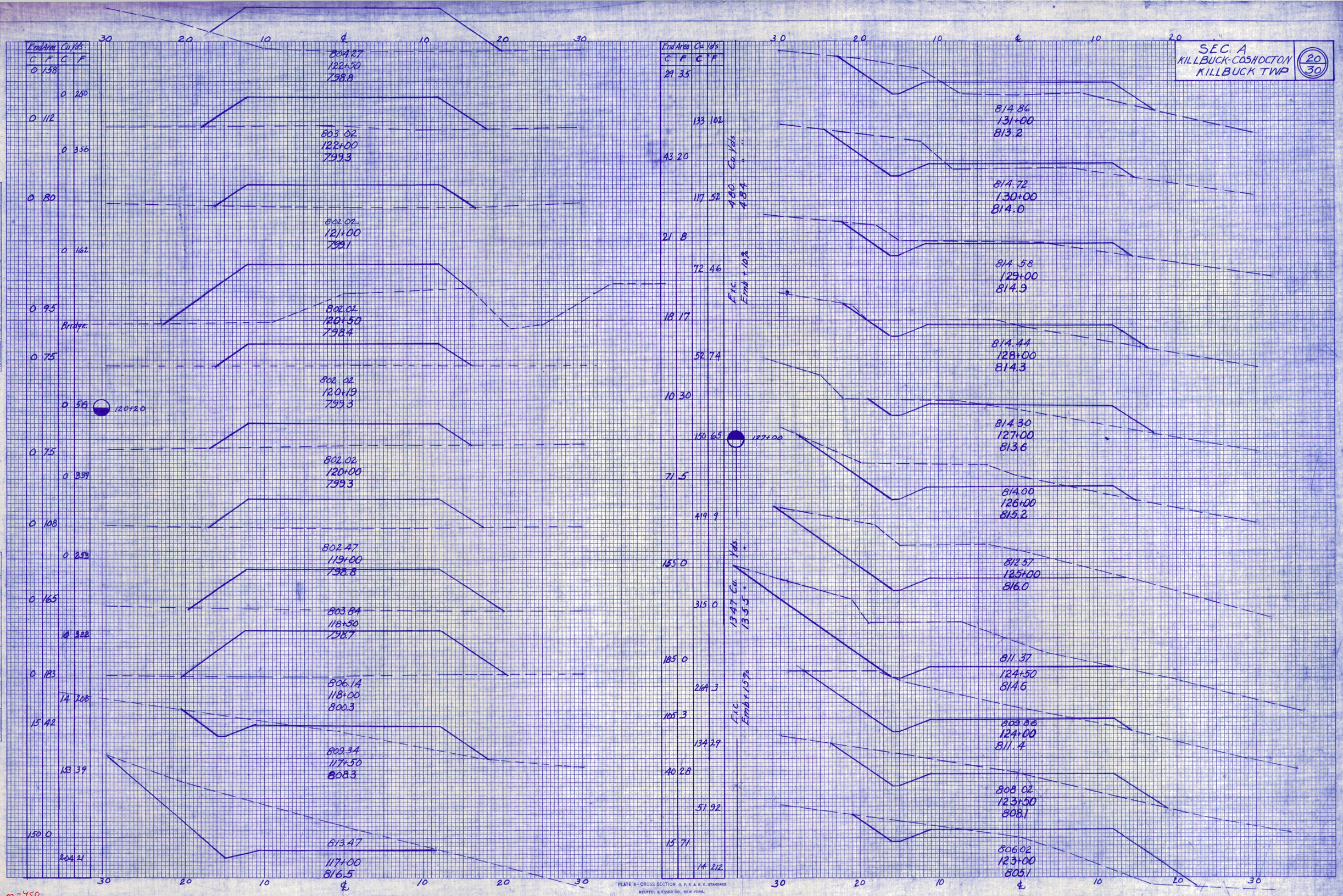
m-440



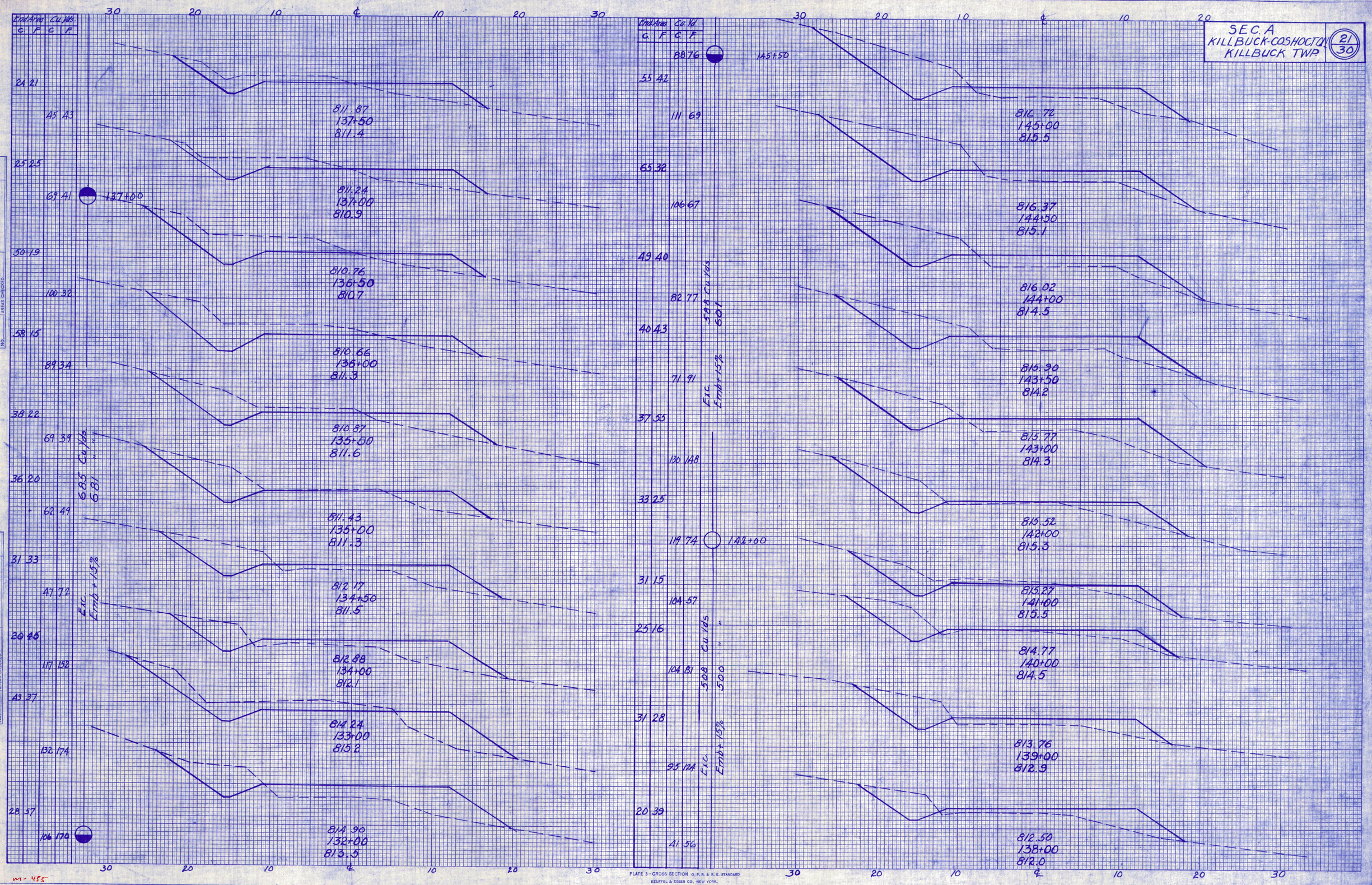
FINAL SURVEY
NOTE BOOK NO.
SURVEYED
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED
BY
DATE

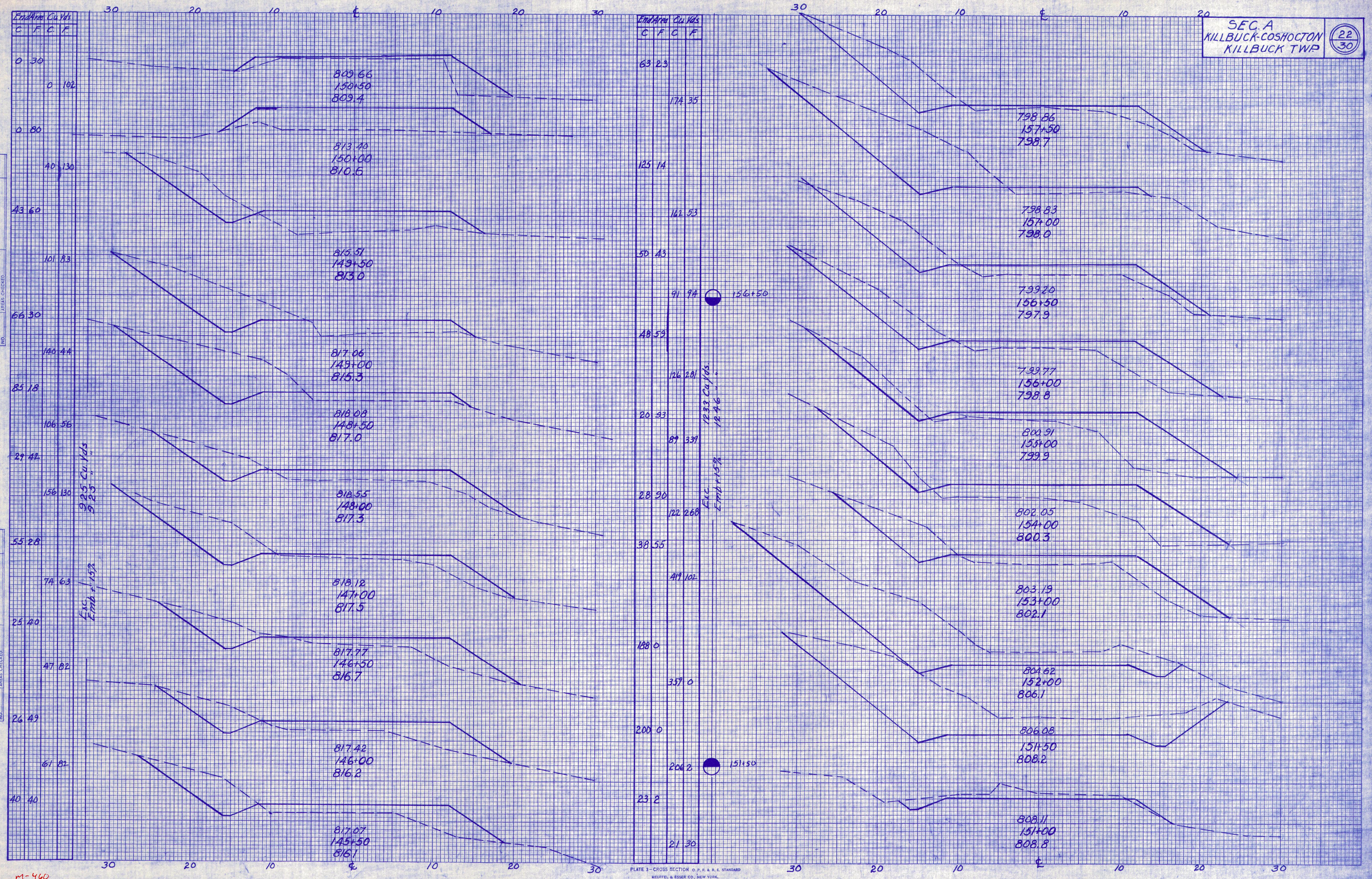
ORIGINAL SURVEY
NOTE BOOK NO.
SURVEYED
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED
BY
DATE

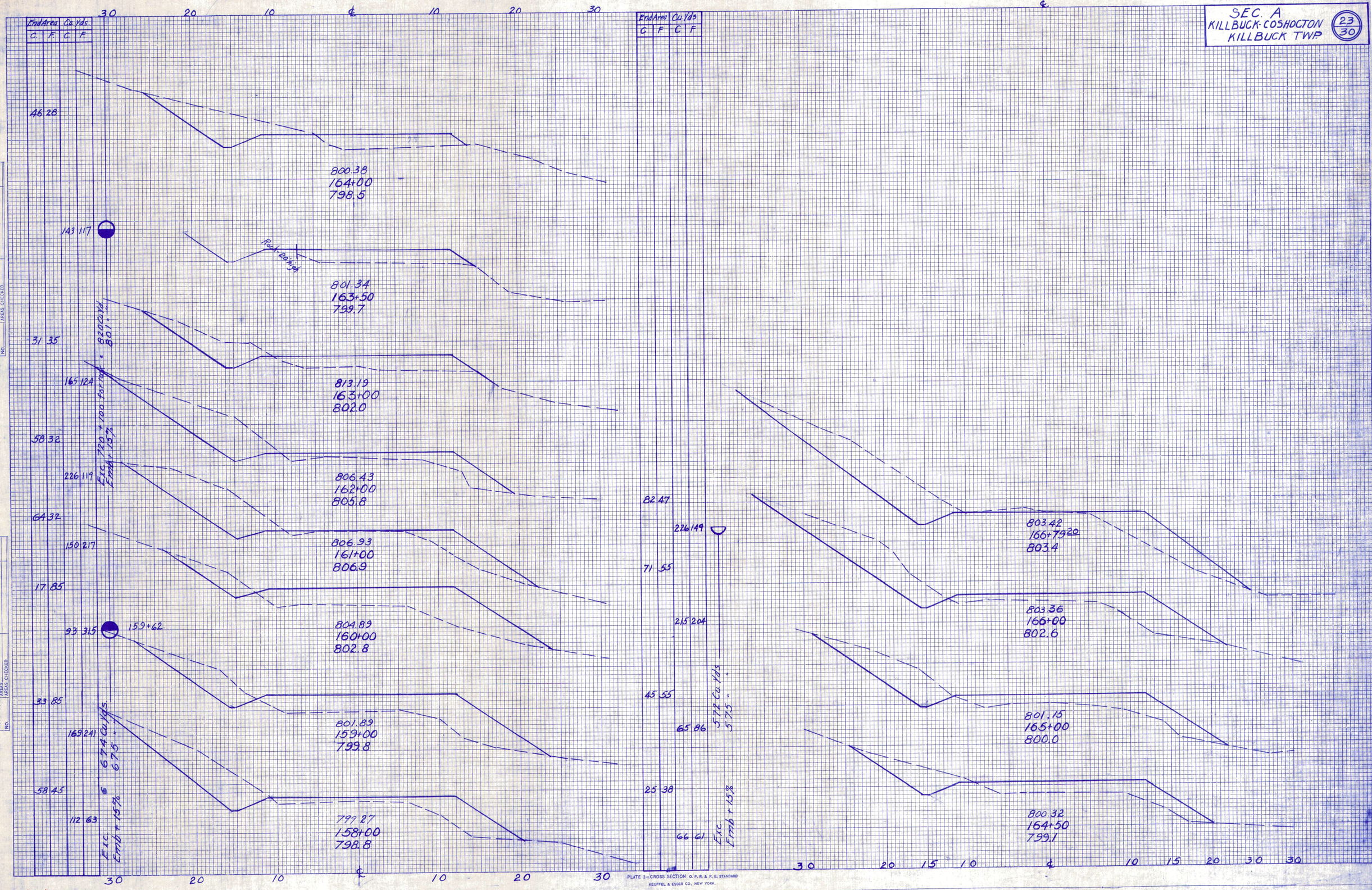
m-445


SEC. A
KILLBUCK-COSHOCTON
KILLBUCK TWP
20
30
End Area
Cu Yds
C F C F
0 158
0 250
0 112
0 356
0 80
0 162
0 95
Bridge
0 75
0 56
120+20
0 75
0 339
0 108
0 253
0 165
0 322
0 183
14 208
15 42
153 39
150 0
204 21
804.27
122+50
798.8
803.02
122+00
799.3
802.02
121+00
799.1
802.02
120+50
798.4
802.02
120+19
799.3
802.02
120+00
799.3
802.47
119+00
798.8
803.84
118+50
798.7
806.14
118+00
800.3
809.34
117+50
808.3
813.47
117+00
816.5
29 35
133 102
43 20
117 52
21 8
72 46
18 17
52 74
10 30
150 65
127+00
71 5
419 9
155 0
315 0
185 0
264 3
105 3
134 29
40 28
51 92
15 71
14 212
Cu Yds
4.80
4.84
Exc.
Emb + 10%
Yds.
13.47 Cu.
13.55
Exc.
Emb + 15%
814.86
131+00
813.2
814.72
130+00
814.0
814.58
129+00
814.9
814.44
128+00
814.3
814.30
127+00
813.6
814.00
126+00
815.2
812.57
125+00
816.0
811.37
124+50
814.6
809.86
124+00
811.4
808.02
123+50
808.1
806.02
123+00
805.1
30 20 10 ℄ 10 20 30
FINAL SURVEY
NOTE BOOK
NO.
SURVEYED
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED
BY
DATE
ORIGINAL SURVEY
NOTE BOOK
NO.
SURVEYED
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED
BY
DATE
PLATE 3 - CROSS SECTION O. P. R. & R. E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.

m-450

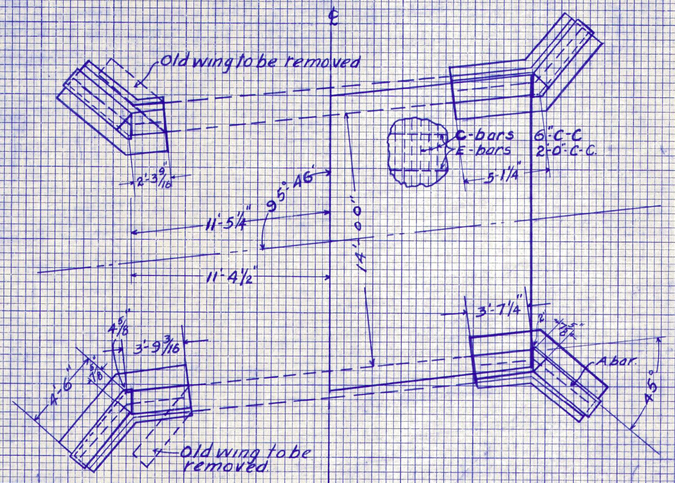

SEC. A
KILLBUCK-COSHOCTON
KILLBUCK TWP.
21
30
End Area
Cu. Yds.
C. F.
24 21
45 43
25 25
69 41
137+00
50 19
100 32
58 15
89 34
38 22
69 39
36 20
62 49
31 33
47 72
20 46
117 152
43 37
132 174
28 57
106 170
685 Cu. Yds.
681 " "
Exc.
Emb. + 15%
811.87
137+50
811.4
811.24
137+00
810.9
810.76
136+50
810.7
810.66
136+00
811.3
810.87
135+00
811.6
811.43
135+00
811.3
812.17
134+50
811.5
812.88
134+00
812.1
814.24
133+00
815.2
814.90
132+00
813.5
88 76
145+50
55 42
111 69
65 32
106 67
49 40
82 77
40 43
71 91
37 55
130 148
33 25
119 74
142+00
31 15
104 57
25 16
104 81
31 28
95 124
20 39
41 56
588 Cu. Yds.
601
Exc.
Emb. + 15%
508 Cu. Yds.
500 " "
Exc.
Emb. + 15%
816.72
145+00
815.5
816.37
144+50
815.1
816.02
144+00
814.5
815.90
143+50
814.2
815.77
143+00
814.3
815.52
142+00
815.3
815.27
141+00
815.5
814.77
140+00
814.5
813.76
139+00
812.9
812.50
138+00
812.0
30 20 10 ℄ 10 20 30
FINAL SURVEY
NOTE BOOK NO.
SURVEYED
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED
BY
DATE
ORIGINAL SURVEY
NOTE BOOK NO.
SURVEYED
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED
BY
DATE
20
43
63
m-455
PLATE 3 - CROSS SECTION O. P. R. & R. E. STANDARD
KEUFFEL & ESSER CO. NEW YORK.


SEC. A
KILLBUCK-COSHOCTON
KILLBUCK TWP.
22/30
End Area C F
Cu Yds C F
809.66
150+50
809.4
813.40
150+00
810.6
815.51
149+50
813.0
817.06
149+00
815.3
818.08
148+50
817.0
818.55
148+00
817.3
818.12
147+00
817.5
817.77
146+50
816.7
817.42
146+00
816.2
817.07
145+50
816.1
925 Cu Yds
925 "
Exc Emb + 15%
798.86
157+50
798.7
798.83
157+00
798.0
799.20
156+50
797.9
799.77
156+00
798.8
800.91
155+00
799.9
802.05
154+00
800.3
803.19
153+00
802.1
804.62
152+00
806.1
806.08
151+50
808.2
808.11
151+00
808.8
156+50
151+50
1233 Cu Yds
1246 "
Exc Emb + 15%
FINAL SURVEY
ORIGINAL SURVEY
NOTE BOOK NO.
SURVEYED
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED
BY
DATE
M-460
PLATE 3 - CROSS SECTION O. P. R. & R. E. STANDARD
KEUFFEL & ESSER CO. NEW YORK.

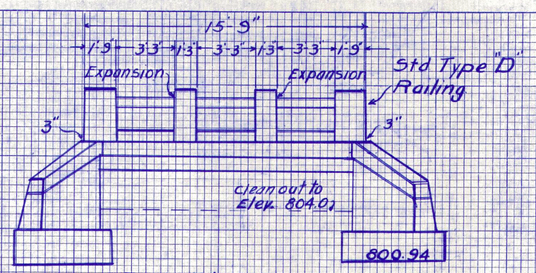

SEC. A
KILLBUCK-COSHOCTON
KILLBUCK TWP.
23
30
End Area
Cu. Yds.
C
F
46 28
143 117
31 35
165 124
58 32
226 119
64 32
150 217
17 85
93 315
159+62
33 85
169 241
58 45
112 63
800.38
164+00
798.5
Rock 20' high
801.34
163+50
799.7
813.19
163+00
802.0
806.43
162+00
805.8
806.93
161+00
806.9
804.89
160+00
802.8
801.89
159+00
799.8
799.27
158+00
798.8
Exc. 720 + 100 for rock = 820 Cu. Yd.
Emb + 15% 801 "
Exc. 674 Cu. Yds.
Emb + 15% 675 "
82 47
226 149
71 55
215 204
45 55
65 86
25 38
66 61
572 Cu. Yds.
575 "
Exc.
Emb + 15%
803.42
166+79.20
803.4
803.36
166+00
802.6
801.15
165+00
800.0
800.32
164+50
799.1
30
20
10
15
℄
FINAL SURVEY
NOTE BOOK
NO.
SURVEYED
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED
BY
DATE
ORIGINAL SURVEY
PLATE 3—CROSS SECTION O. P. R. & R. E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.

M-465

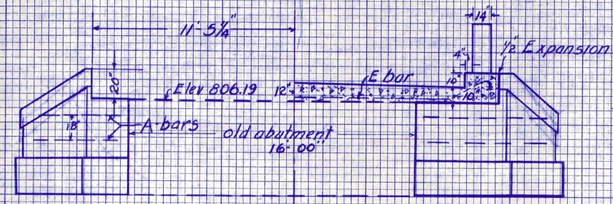
SEC. A
KILLBUCK-COSHOCTON
KILLBUCK-TWP.
24/30



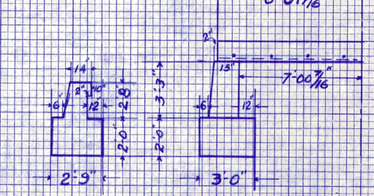
PLAN



End Elevation



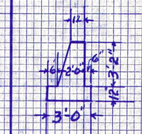
Front Elevation



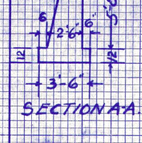
End of Wing — Half Section on ℄

Extension of Slab Bridge Sta 5+85

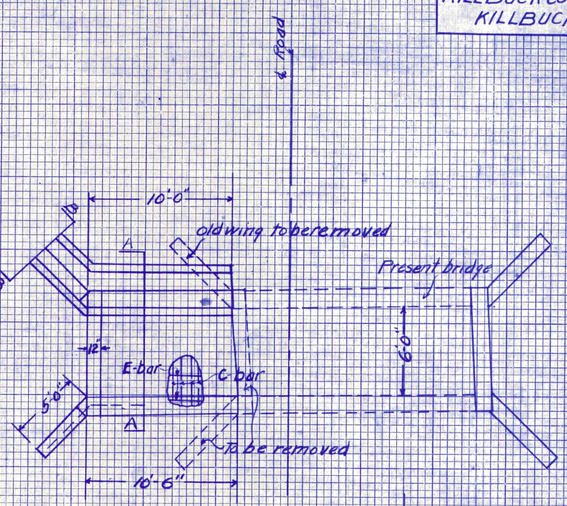
Extension of abutment's left and right and underline new slab and rail.

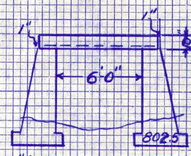


Section B-B



SECTION A-A

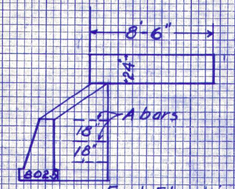




STEEL LIST

4 E bars	5/8" □	12'-0" long	2'-0" c-c
6-A "	5/8" □	8'-0" "	18" c-c
16-C "	5/8" □	8'-0" "	7 1/2" c-c

Section on ℄



End Elevation

Estimate of Quantities

Exc and Refill	16 Cu Yds
Concrete 1:2½:4	15.7 Cu Yds
Concrete 1:2:3	3.0
Rein Steel	302 lbs.

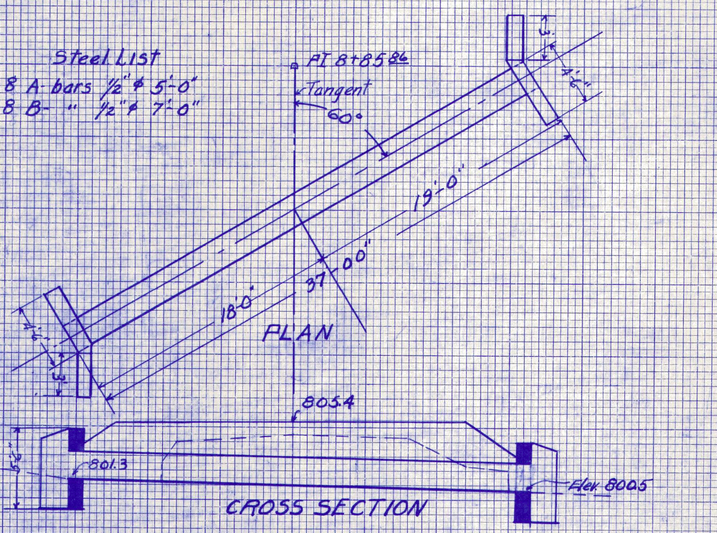
Extension Sta 14+80

STEEL LIST

No	Mark	Size	Length	Place	Spacing
8	E	½" □	24'-0"	Slab	2'-0"
46	C	¾" □	16'-0"	"	0'-6"
4	A	"	7'-6	Wing	1'-6"
2	A	"	6'-0	"	1'-6"
2	A	"	9'-0	"	1'-6"
32	V	½" ϕ	4'-0"	Pos/s	
16	X	" "	5'-0	End Panel	
4	X	" "	15'-6	Lower Rail	
8	X	" "	5'-0	Mid Panel	

ESTIMATE OF QUANTITIES

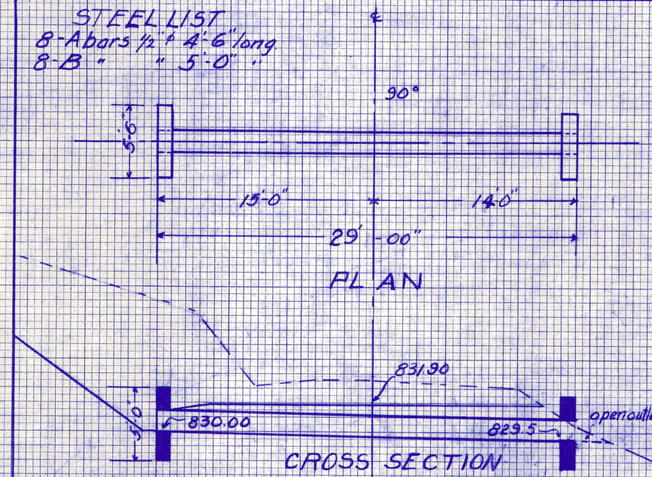
Exc and refill	16 Cu Yds
Concrete 1:2½:4	13.1 " "
" 1:2:3	14.2 " "
Rein Steel	2274 Lbs.
Type D Rail	31'-6"
Expansion joint (premolded	7 sq ft



Type Std C.I.P. Culvert
Size - 37"-24"
Work Req'd - Remove old pipe
Build new Culvert

Exc and Refill	10 Cu Yds
Concrete 1:2:3	2.8 " "
Rein Steel	64 lbs.

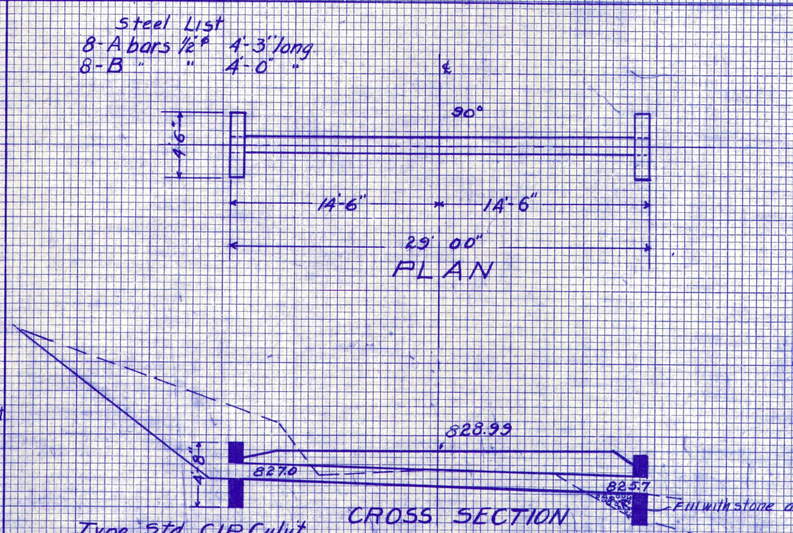
Sta 8+33



Type Std C.I.P. Culvt
Size 29'-18"
Work Req'd Build new Culvert

Exc and refill	6 Cu Yds
Con. 1:2:3	1.9 Cu Yds
Rein steel	51 lbs

Sta 29+00



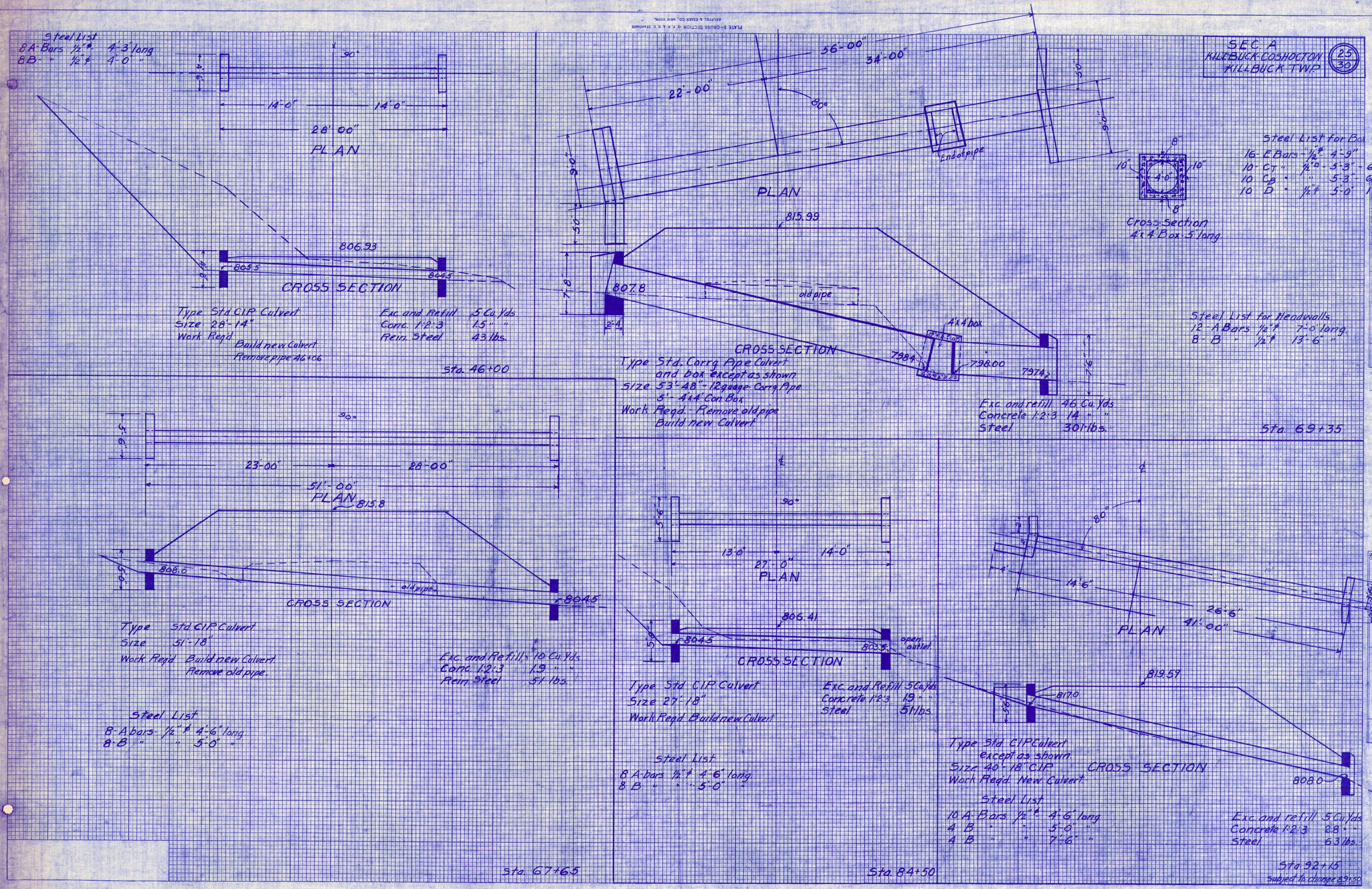
Type Std. C.I.P. Culvt
Size 29'-14"
Work Req'd New Culvert

Exc and refill	4 Cu Yds
Con 1:2:3	1.5 " "
Reinf Steel	43 lbs

Sta 36+50

M-470

PLATE 3—CROSS SECTION O. P. R. & R. E. STANDARD
KEUFFEL & ESSER CO. NEW YORK.


SEC. A
KILLBUCK-COSHOCTON
KILLBUCK TWP.
25
30
Steel List
8 A-Bars ½"φ 4'-3" long
8 B " ½"φ 4'-0" "
90°
4'-6"
14'-0"
14'-0"
28'-00"
PLAN
806.93
805.5
804.5
CROSS SECTION
Type Std CIP Culvert
Size 28'-14"
Work Reqd. Build new Culvert
Remove pipe 46+06
Exc. and Refill 5 Cu. Yds
Conc. 1:2:3 1.5 " "
Rein. Steel 43 lbs.
Sta. 46+00
56'-00"
34'-00"
22'-00"
80°
End of pipe
PLAN
815.99
807.8
old pipe
4'x4' box
798.4
798.00
797.4
CROSS SECTION
Type Std. Corrg. Pipe Culvert
and box except as shown.
Size 53'-48" - 12 gauge Corrg. Pipe
5' - 4'x4' Con. Box
Work Reqd. - Remove old pipe
Build new Culvert
Exc. and refill 46 Cu. Yds.
Concrete 1:2:3 14 " "
Steel 301 lbs.
Sta. 69+35
Cross Section
4'x4' Box 5' long
Steel List for Box
16 - E Bars - ½"φ 4'-9"
10 - CT " ½"□ - 5'-3" - 6" c-c
10 CB " " 5'-3" - 6" c-c
10 D " ½"φ 5'-0" 1'-
Steel List for Headwalls
12 - A Bars ½"φ 7'-0" long
8 - B " ½"φ 13'-6" "
90°
5'-6"
23'-00"
28'-00"
51'-00"
PLAN
815.8
808.0
old pipe
804.5
CROSS SECTION
Type Std CIP Culvert
Size 51'-18"
Work Reqd. Build new Culvert
Remove old pipe.
Exc. and Refill 10 Cu. Yds.
Conc. 1:2:3 1.9 " "
Rein. Steel 51 lbs.
Steel List
8 - A bars ½"φ 4'-6" long
8 - B " " 5'-0" "
Sta. 67+65
90°
5'-6"
13'-0"
14'-0"
27'-0"
PLAN
806.41
804.5
803.5
open outlet
CROSS SECTION
Type Std CIP Culvert
Size 27'-18"
Work Reqd. Build new Culvert
Exc. and Refill 5 Cu. Yds.
Concrete 1:2:3 1.9 " "
Steel 51 lbs.
Steel List
8 A-bars ½"φ 4'-6" long
8 B " " 5'-0" "
Sta. 84+50
80°
14'-6"
26'-6"
41'-00"
PLAN
819.59
817.0
808.0
CROSS SECTION
Type Std CIP Culvert
except as shown.
Size 40'-18" CIP
Work Reqd. New Culvert
Steel List
10 A-Bars ½"φ 4'-6" long
4 B " " 5'-0" "
4 B " " 7'-6" "
Exc. and refill 5 Cu. Yds.
Concrete 1:2:3 2.8 " "
Steel 63 lbs.
Sta. 92+15
Subject to change 89+50
ORIGINAL SURVEY
SURVEYED
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED
BY
DATE
FINAL SURVEY
NOTE BOOK
NO.
SURVEYED
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED
BY
DATE

M-475

SEC. A
KILLBUCK-COSHOCTON
KILLBUCK TWP.
26
30

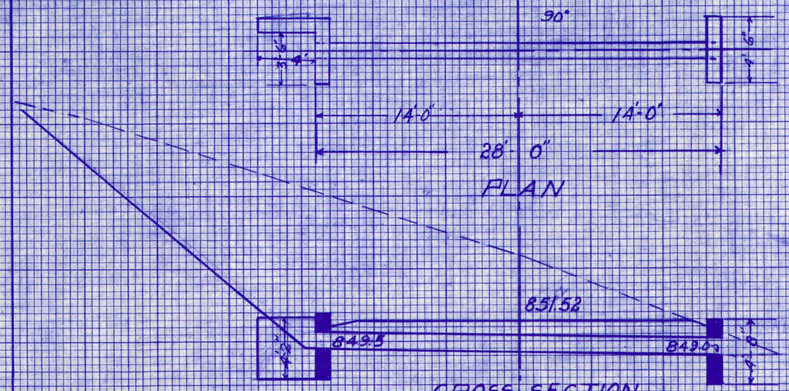
12-A Bars ½" 4'-6"
4-B " " 4'-6"
4-B " " 7'-6"

Type- Std C.I.P Culvert except as shown
Size 31'-16" C.I.P
Work Req'd Build new Culvert

Exc and Refill 10 Cu Yds
Concrete 1:2:3 2.4 " "
Steel 68#

Sta 99+00

Steel List
12-A Bars 4'-3" long ½" ϕ
4-B " 4'-0" " " "
4-B " 7'-0" " " "

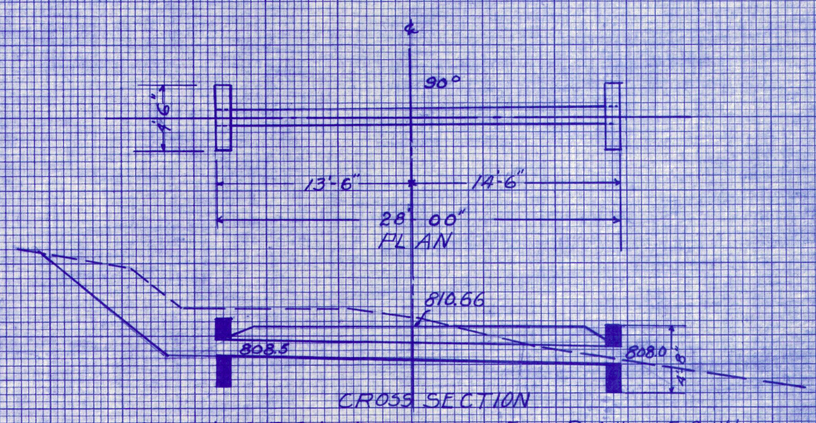


Type: Std Culvt
Size 28'-14"
Work Req'd New Culvert

Exc and refill 7 Cu Yds
Conc 1:2:3 2.1 " "
Steel 63#

Sta 113+50

Steel List
8-A bars ½" ϕ 4'-3" long
8-B " " 4'-0" "

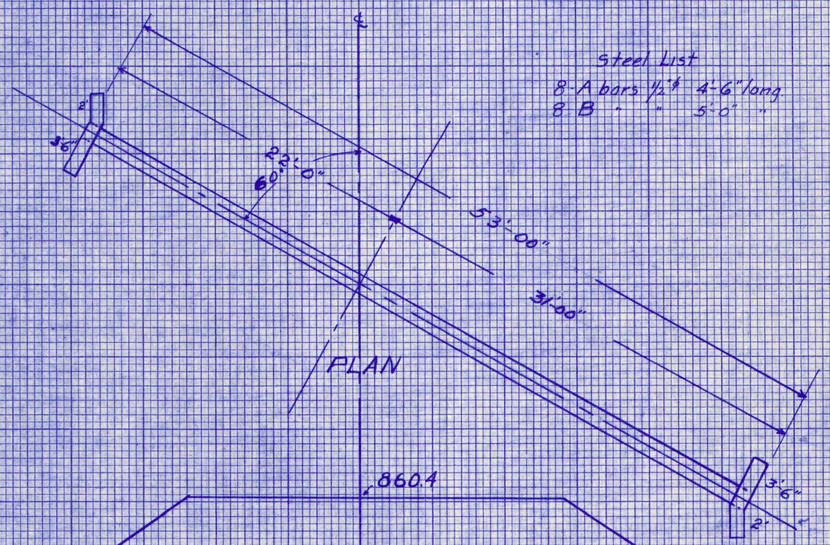


Type Std C.I.P Culvert
Size 28'-14"
Work Req'd New Culvert

Exc + Refill 5 Cu Yds
Concrete 1:2:3 1.5 " "
Steel 43#

Sta 136+00

Steel List
8-A bars ½" ϕ 4'-6" long
8-B " " 5'-0" "

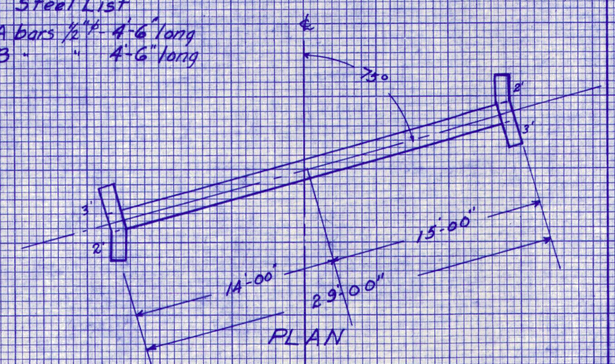


Type Std C.I.P Culvert
except as shown
Size 33'-18" C.I.P
Work Req'd Build new Culvert

Exc and Refill 3 Cu Yds
Concrete 1:2:3 1.9 Cu Yds
Steel 51#

Sta 106+17

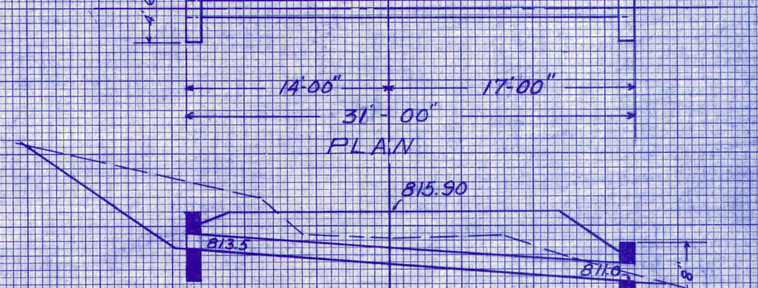
Steel List
8A bars ½" ϕ 4'-6" long
8B " " 4'-6" long



Type: Std C.I.P Culvert
Size: 29'-16"
Work Req'd New Culvert

Exc and Refill 5 Cu Yds
Conc 1:2:3 1.7 " "
Steel 48#

Sta 129+46



Type Std C.I.P Culvert
Size 31'-14"
Work Req'd New Culvert

Exc and refill 5 Cu Yds
Conc 1:2:3 1.5 " "
Steel 43#

Steel List
8 A bars ½" ϕ 4'-3" long
8 B " " 4'-0" "

Sta 143+50

FINAL SURVEY — SURVEYED: PLOTTED: TEMPLATE: AREAS: AREAS CHECKED: NOTE BOOK: NO. — BY — DATE

ORIGINAL SURVEY — SURVEYED: PLOTTED: TEMPLATE: AREAS: AREAS CHECKED: NOTE BOOK: NO. — BY — DATE

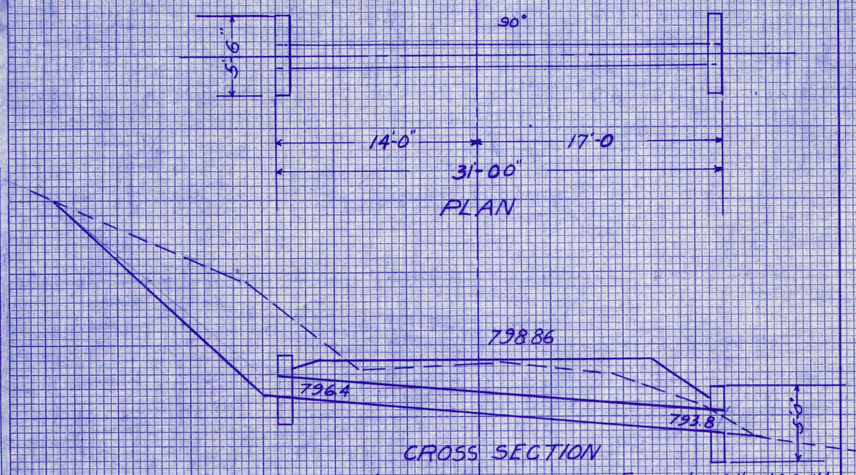
M-480

PLATE 3—CROSS SECTION O. P. R. & R. E. STANDARD
KEUFFEL & ESSER CO. NEW YORK.

SEC. A
KILLBUCK-COSHOCTON
KILLBUCK TWP
27
30

SUPER STRUCTURE
S/a
120+35

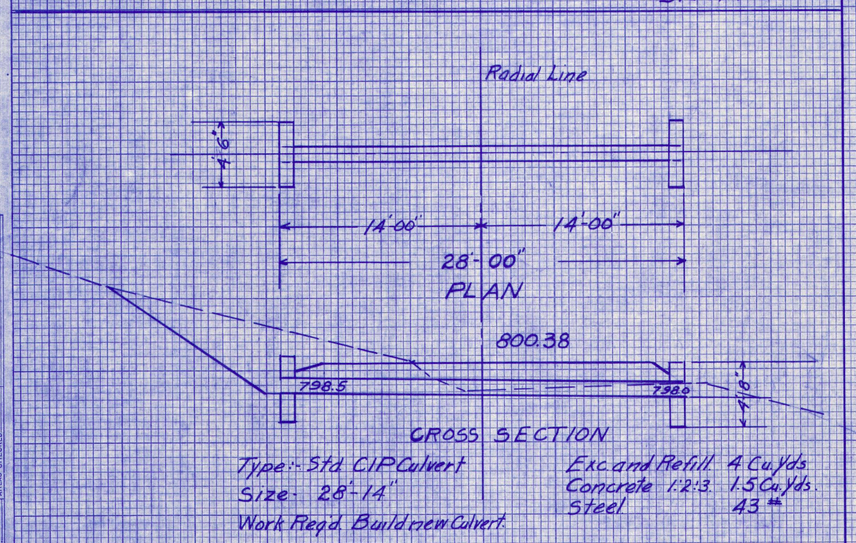
Steel List
8-A bars - ½"# 4'-6" long.
8-B " " 5'-0" "



Type Std C/P Culvert
Size 31'-18"
Work Regd- Build new Culvert

Exc and refill 10 Cu Yds
Conc 1:2:3 1.9 " "
Steel 51 #

Sta 157+50

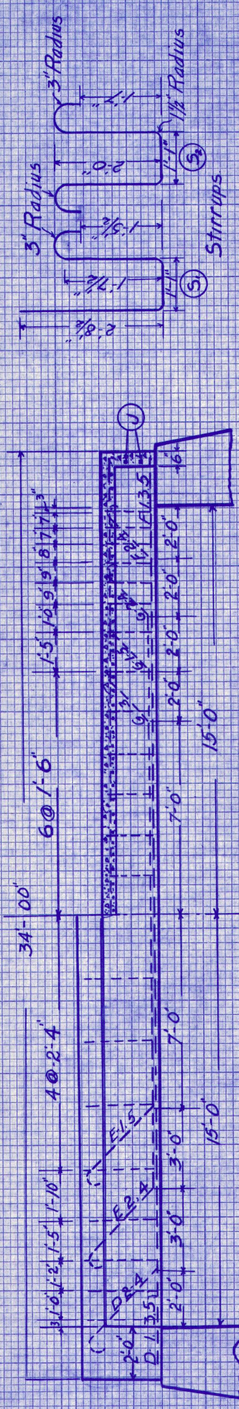


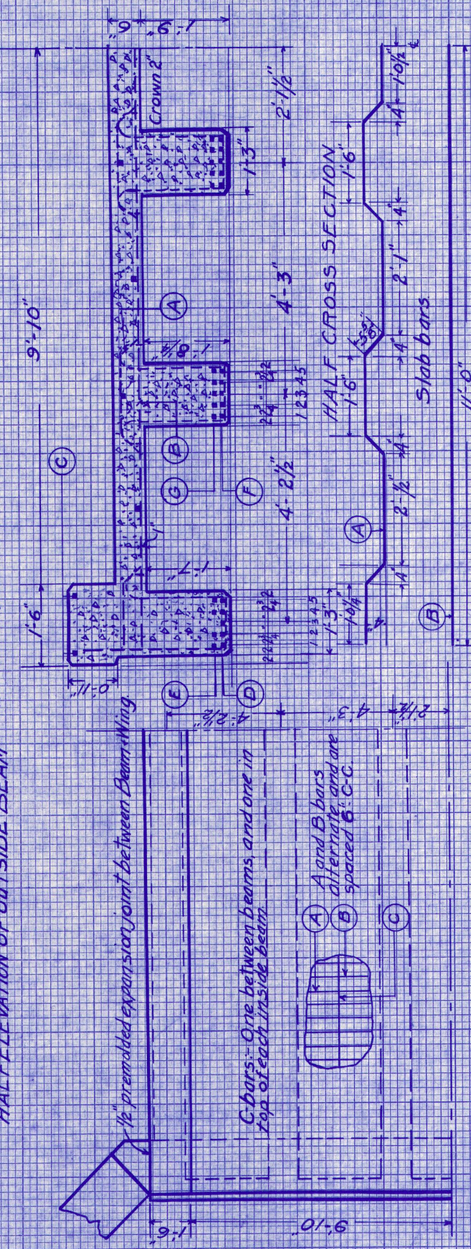
Type:- Std C/P Culvert
Size:- 28'-14"
Work Regd. Build new Culvert

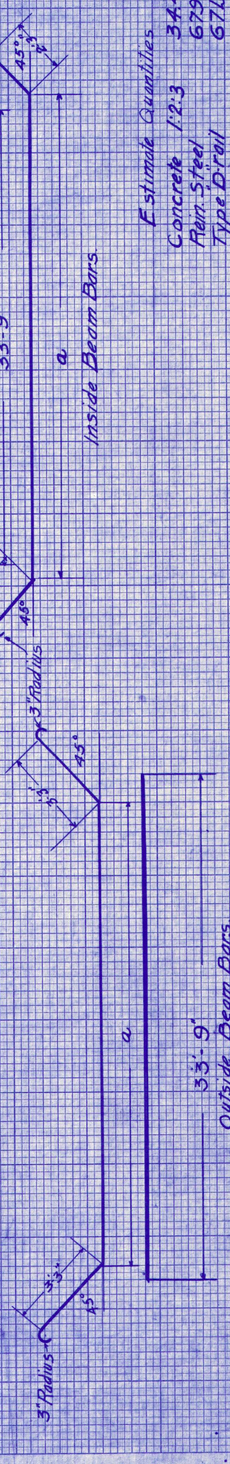
Exc and Refill 4 Cu Yds
Concrete 1:2:3 1.5 Cu Yds.
Steel 43 #

Steel List
8-A Bars ½"# 4'-3" long
8-B " " 4'-0" "

Sta 164+00







Estimate Quantities
Concrete 1:2:3 344 Cu Yds
Reinf. Steel 67961 lbs
Type D Rail 671 Lin Ft
Expansion Joint 249 Sq Ft
Spacers and Chairs

Inside Beams

No. mark	Size	"a"	Total Length	Total Wt.
4	F-1	33'-9"	33'-9"	351
4	F-2	26'-0"	32'-0"	333
4	F-3	" "	33'-9"	351
4	F-4	26'-0"	32'-0"	333
4	F-5	" "	33'-9"	351
4	G-1	18'-0"	24'-0"	250
4	G-2	22'-0"	28'-0"	291
4	G-3	14'-0"	20'-0"	208
4	G-4	22'-0"	28'-0"	291
4	G-5	18'-0"	24'-0"	250
108	S-2	1'-6"	6'-6"	469

Slab

No. mark	Size	Total Length	Total Wt.
33	A	23'-0"	645
33	B	22'-0"	617
13	C	33'-9"	294
4	V	22'-0"	77

Railing Steel

No. mark	Size	Length	Total Wt.
48	V	4'-0"	163
8	X	6'-8"	45
8	X	17'-6"	119
16	X	13'-0"	177

Outside Beams

No. mark	Size	"a"	Total Length	Total Wt.
2	D-1	33'-9"	33'-9"	128
2	D-2	34'-0"	34'-0"	129
2	D-3	33'-9"	33'-9"	128
2	D-4	34'-0"	34'-0"	129
2	D-5	33'-9"	33'-9"	128
2	E-1	26'-0"	26'-0"	106
2	E-2	" "	20'-0"	84
2	E-3	" "	22'-0"	84
2	E-4	" "	28'-0"	106
2	E-5	" "	20'-0"	84
34	S-1	1'-6"	6'-9½"	145

PLATE 3—CROSS SECTION O. P. R. & R. E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.

M-485

SEC. A
KILLBUCK-COSHOCTON
KILLBUCK TWP.

28
30

33'-6"

1'-9" | 5'-0" | 1'-3" | 5'-0" | 1'-3" | 5'-0" | 1'-3" | 5'-0" | 1'-3" | 5'-0" | 1'-9"

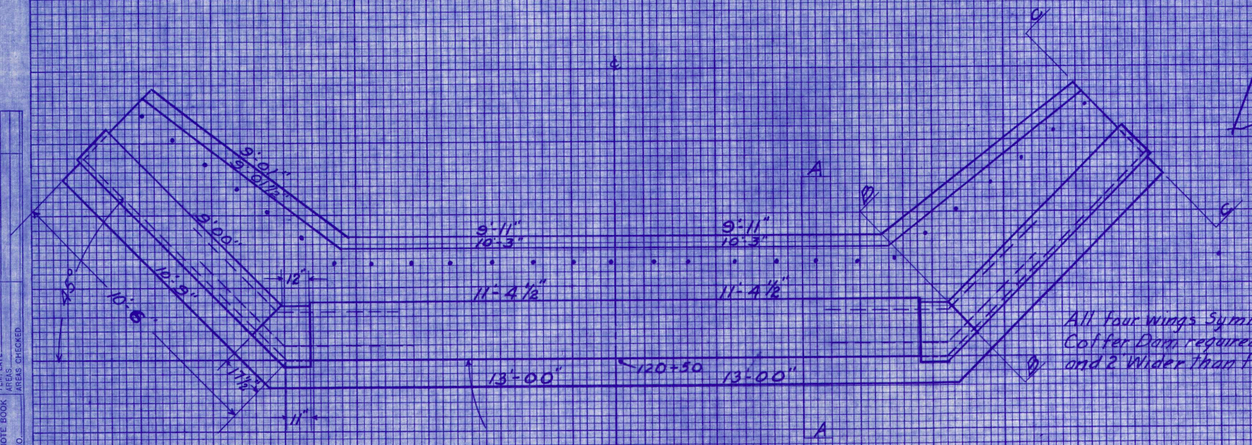
Expansion Joint

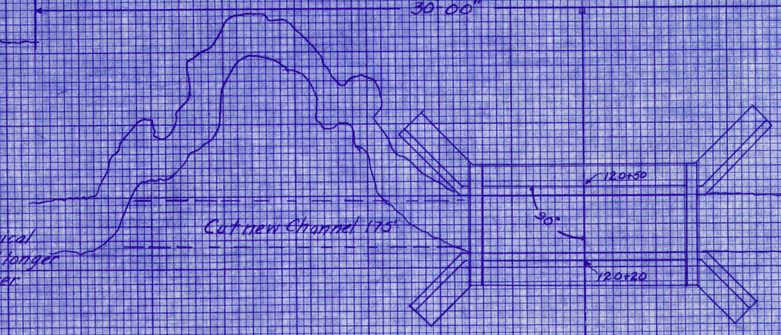
Type "D" Rail

3½"

3"

30'-00"

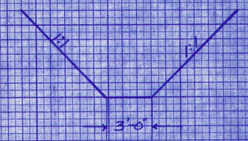




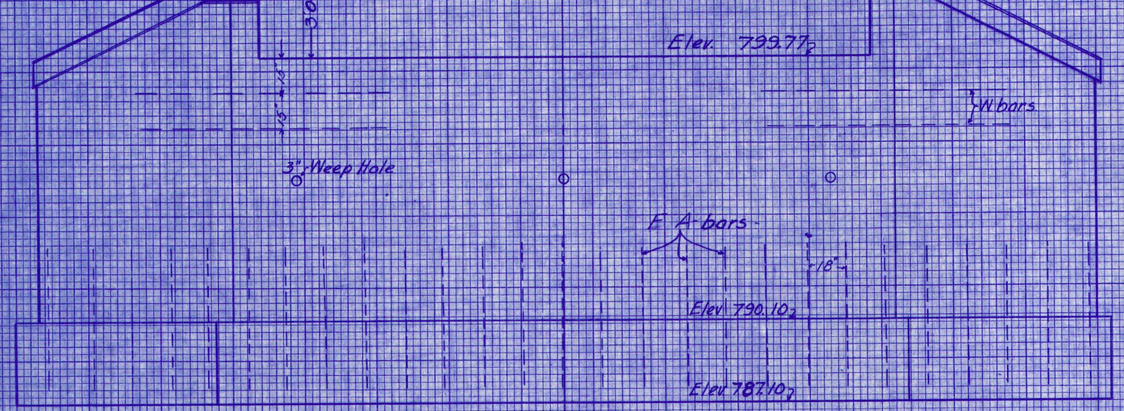
Chord between 120+00 & 120+50

℄ 120+00

LOCATION PLAN

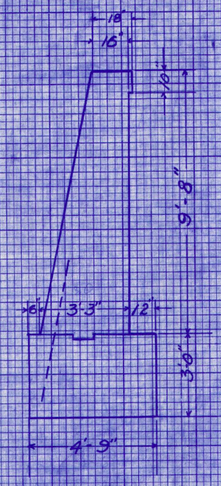


Cross-Section of New Channel

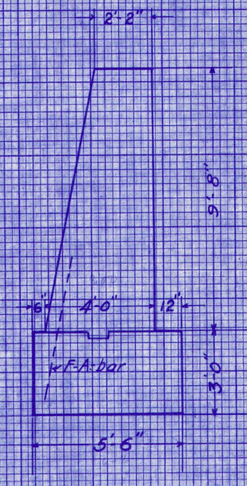


Scale ⅜"=1'0"

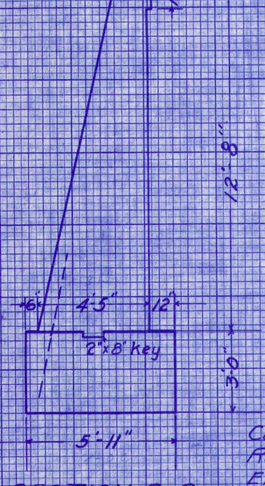
FRONT ELEVATION



SECTION C-C



SECTION A-A



SECTION B-B

STEEL LIST

54 F A bars ⅝" 5'-0" long 18" c-c
16 W bars ¾" 9'-0" " 15" c-c

Estimate of Quantities

Concrete 1:2½:4	1473 Cu Yds
Rein Steel	438 lbs
Exc "Dry"	186 Cu Yds
Exc Wet	232 " "
Channel Exc. to be placed in Road	450 " "

SUB STRUCTURE
30' T BEAM
Sta 120+35

PLATE 3—CROSS SECTION O. P. R. & R. E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.

M-490

FINAL SURVEY — SURVEYED, PLOTTED, NOTE BOOK, NO., TEMPLATE, AREAS, CHECKED, BY, DATE

ORIGINAL SURVEY — SURVEYED, PLOTTED, NOTE BOOK, NO., TEMPLATE, AREAS, CHECKED, BY, DATE

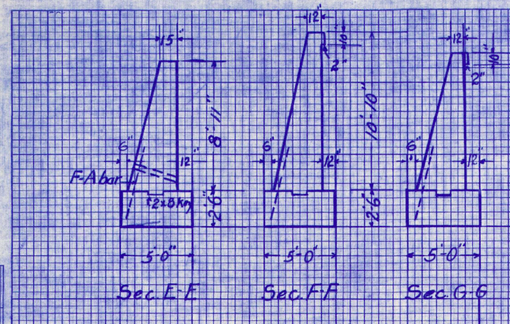
SEC. A
KILLBUCK-COSHOCTON
KILLBUCK TWP

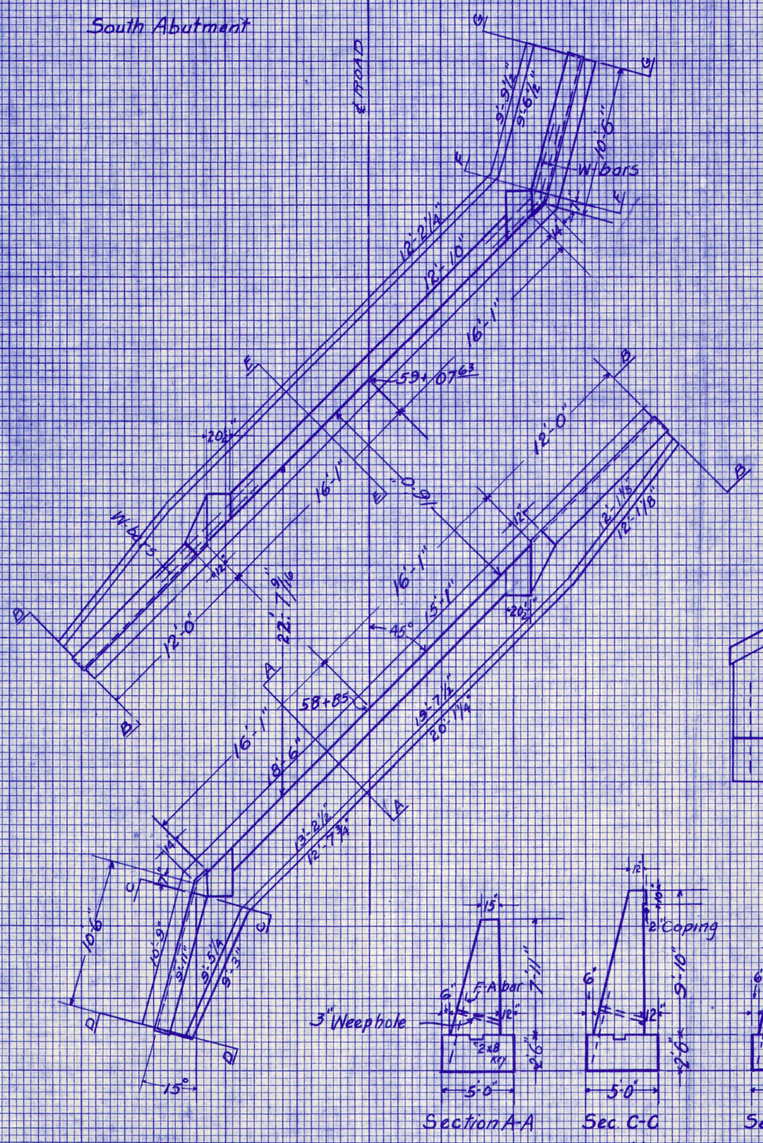
29
30

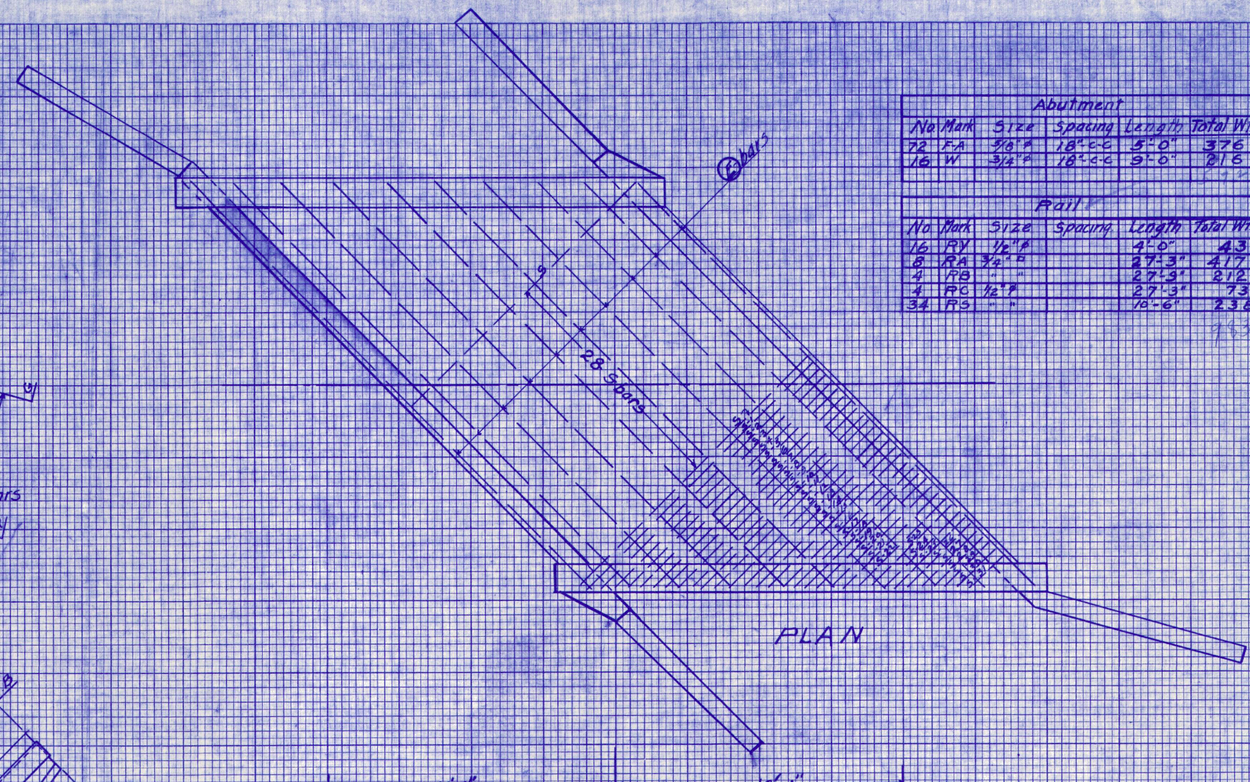
Abutment					
No.	Mark	Size	Spacing	Length	Total Wt.
72	F.A	5/8" ϕ	18"-c-c	5'-0"	376
16	W	3/4" ϕ	18"-c-c	9'-0"	216

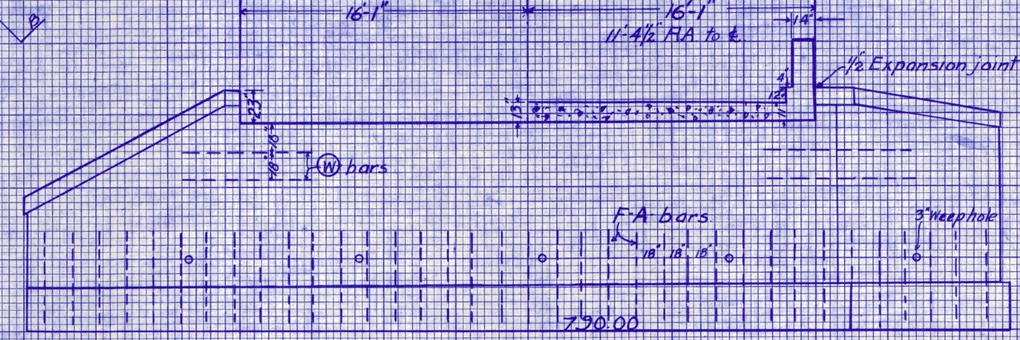
Rail					
No.	Mark	Size	Spacing	Length	Total Wt.
16	RV	1/2" ϕ		4'-0"	43
8	RA	3/4" ϕ		27'-3"	417
4	RB	" "		27'-9"	212
4	RC	1/2" ϕ		27'-3"	73
34	RS	" "		10'-6"	238

Slab					
No.	Mark	Size	Spacing	Length	Total Wt.
28	S	1" ϕ	6" c.c	18'-0"	1346
2	S-1	"	"	17'-8"	94
2	S-2	"	"	17'-2"	92
2	S-3	"	"	16'-8"	89
2	S-4	"	"	16'-2"	86
2	S-5	"	"	15'-8"	84
2	S-6	"	"	15'-2"	81
2	S-7	"	"	14'-8"	78
2	S-8	"	"	14'-2"	76
2	S-9	"	"	13'-8"	73
2	S-10	"	"	13'-2"	70
2	S-11	"	"	12'-8"	68
2	S-12	"	"	12'-2"	65
2	S-13	"	"	11'-8"	62
2	S-14	"	"	11'-2"	60
2	S-15	"	"	10'-8"	57
2	S-16	"	"	10'-2"	54
2	S-17	"	"	9'-8"	52
2	S-18	"	"	9'-2"	49
2	S-19	"	"	8'-8"	46
2	S-20	"	"	8'-2"	44
2	S-21	"	"	7'-8"	41
2	S-22	"	"	7'-2"	38
2	S-23	"	"	6'-8"	36
2	S-24	"	"	6'-2"	33
2	S-25	"	"	5'-8"	30
2	S-26	"	"	5'-2"	28
2	S-27	"	"	4'-8"	25
2	S-28	"	"	4'-2"	22
2	S-29	"	"	3'-8"	20
2	S-30	"	"	3'-2"	17
2	S-31	"	"	2'-8"	14
20	E	1/2" ϕ	2'-0"	18'-3"	244

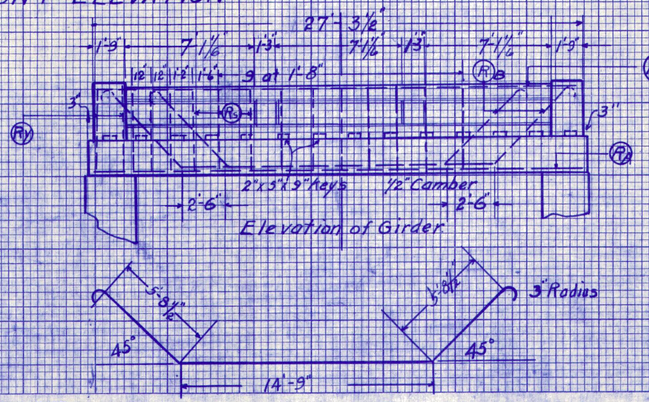




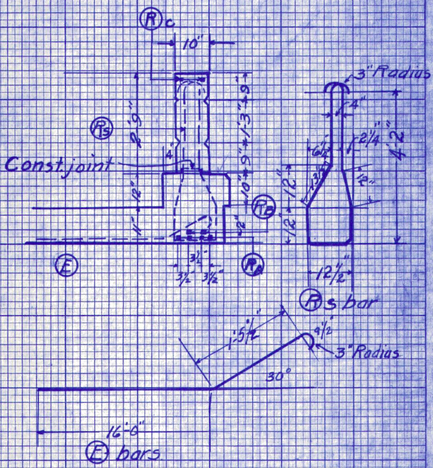


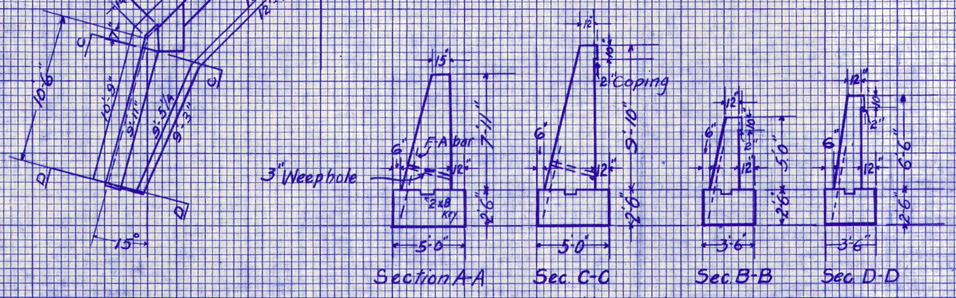


FRONT ELEVATION



Elevation of Girder





Estimate of Quantities

Sub structure

Exc. and refill (Dry)	90	Cu Yds.
" " Wet	112	" "
Concrete 1:2½:4	127.7	" "
Reinf. Steel	592	lbs.
Channel Excavation	150	Cu Yds.

Super structure

Concrete 1:2:3	31	Cu Yds.
Reinf. Steel	4221	lbs.
Expansion joint	20	Sq. ft.
Spacers & Chairs		

Slab Bridge Sta 59+85

FINAL SURVEY — SURVEYED, PLOTTED, TRACED, NOTE BOOK, NO., BY, DATE, AREAS CHECKED

ORIGINAL SURVEY — SURVEYED, PLOTTED, TRACED, NOTE BOOK, NO., BY, DATE, AREAS CHECKED

M-495

PLATE 3 - CROSS SECTION O. P. R. & R. E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.

SECA
KILLBUCK-COSHOCTON
KILLBUCK TWP.
30/30

SUMMARY OF QUANTITIES

ITEM	ROADWAY		QUANTITY
R-1	Excavation		41,275 Cu. Yds.
R-1	Clearing and Grubbing Right of Way		One Sum
R-3	Finishing shoulders, slopes and ditches (Both sides)		16679 Lin Ft
S-7	Vitrified Sewer Pipe for driveways 12"	Material Section 6-7	30 " "
S-8	Pipe Relaid 8"-24"		245 " "
I-1	Rip Rap Retaining Wall		6 Cu. Yds.

PAVEMENT

T-2	Gravel for pavement — Traffic bound.		25,945 Sq. Yds.
T-2	Gravel for Approaches		75 Cu. Yds.

CULVERT

R-4	Excavation and refill Dry		448 Cu. Yds.
R-4	" " " Wet		344 " "
R-4	Channel Excavation		600 " "
S-1	Concrete 1:2:3	Material Sec. 2-1 + Sec. 3-1 or 2	125.4 " "
S-1	" 1:2½:4	" " " " "	303.8 " "
S-4	Reinforcing Steel	" " 7-1	15 760 - lbs.
S-8	Sectional Cast Iron Pipe 14"	" " 6-1	172 Lin Ft.
S-8	" " " " 16"	" " 6-1	60
S-8	" " " " 18"	" " 6-1	231
S-8	" " " " 24"	" " 6-1	37
S-9	Corrugated Iron Pipe 15"	" " 6-4 (b-3)	14
S-9	" " " 48" (12 Guage)	" " " "	53
S-1	Type "D" Bridge Rail		98.5
S-4	Metal bar spacers, chairs, etc.		One Sum
M-10	Expansion joint	" " 10-1	52 Sq. Ft.

M-500