

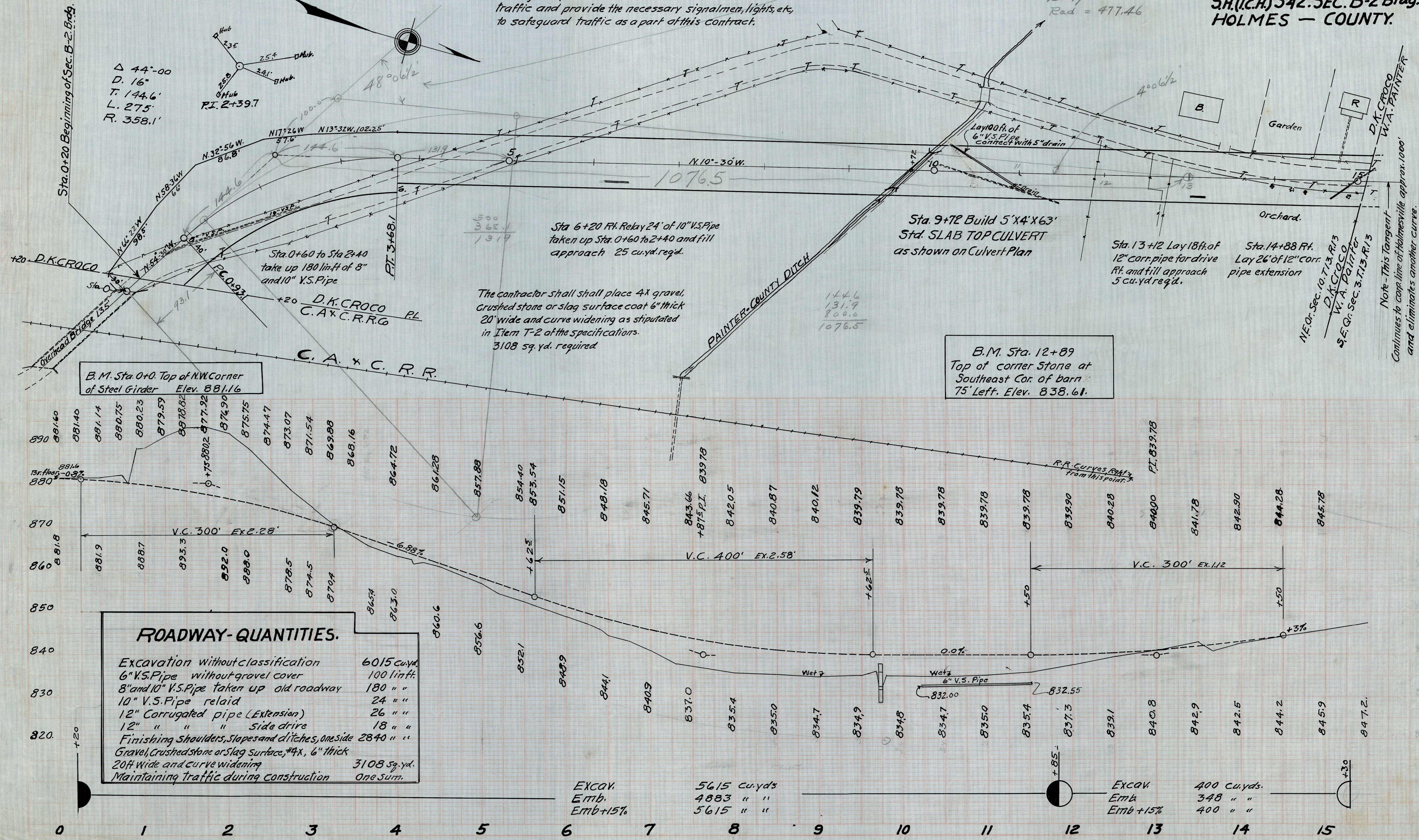
S.H.(I.C.H.) 342. SEC. B-2 Brdg. HOLMES - COUNTY.

NOTE

This improvement does not contemplate closing the highway to traffic. The contractor shall maintain traffic and provide the necessary signalmen, lights, etc. to safeguard traffic as a part of this contract.

$\Delta 48^{\circ}06\frac{1}{2}$
 Deg = $12^{\circ}00'$
 Ex + = 45.4
 Tang = 213.1
 Length =
 Rad = 477.46

$\Delta 44^{\circ}00'$
 D. 16'
 T. 144.6'
 L. 275'
 R. 358.1'



Sta 6+20 Rt. Relay 24' of 10" V.S. Pipe taken up Sta. 0+60 to 2+40 and fill approach 25 cu. yd. req'd.

Sta. 9+72 Build 5'x4'x63' Std. SLAB TOP CULVERT as shown on Culvert Plan

Sta. 13+12 Lay 18ft. of 12" corr. pipe for drive Rt. and fill approach 5 cu. yd. req'd.

Sta. 14+88 Rt. Lay 26' of 12" corr. pipe extension 5 cu. yd. req'd.

The contractor shall place 4x gravel, crushed stone or slag surface coat 6" thick 20' wide and curve widening as stipulated in Item T-2 of the specifications. 3108 sq. yd. required

B.M. Sta. 12+89 Top of corner stone at Southeast Cor. of barn 75' Left. Elev. 838.61.

B.M. Sta. 0+0. Top of N.W. Corner of Steel Girder Elev. 881.16

ROADWAY-QUANTITIES.

Excavation without classification	6015 cu. yd.
6" V.S. Pipe without gravel cover	100 lin. ft.
8" and 10" V.S. Pipe taken up old roadway	180 "
10" V.S. Pipe relaid	24 "
12" Corrugated pipe (Extension)	26 "
12" " " " side drive	18 "
Finishing Shoulders, Slopes and ditches, one side	2840 "
Gravel, Crushed stone or slag surface, 4x, 6" thick 20ft wide and curve widening	3108 sq. yd.
Maintaining traffic during construction	One Sum.

EXCAV. 5615 cu. yds
 Emb. 4883 " "
 Emb + 15% 5615 " "

EXCAV. 400 cu. yds.
 Emb 348 " "
 Emb + 15% 400 " "

Note - This tangent continues to corp line of Holmesville approx. 1000' and eliminates another curve.

FEDERAL SURVEY
 STATE OF OHIO
 COUNTY OF HOLMES
 DISTRICT NO. 10
 PROJECT NO. 342
 SECTION B-2
 BRIDGE NO. 45

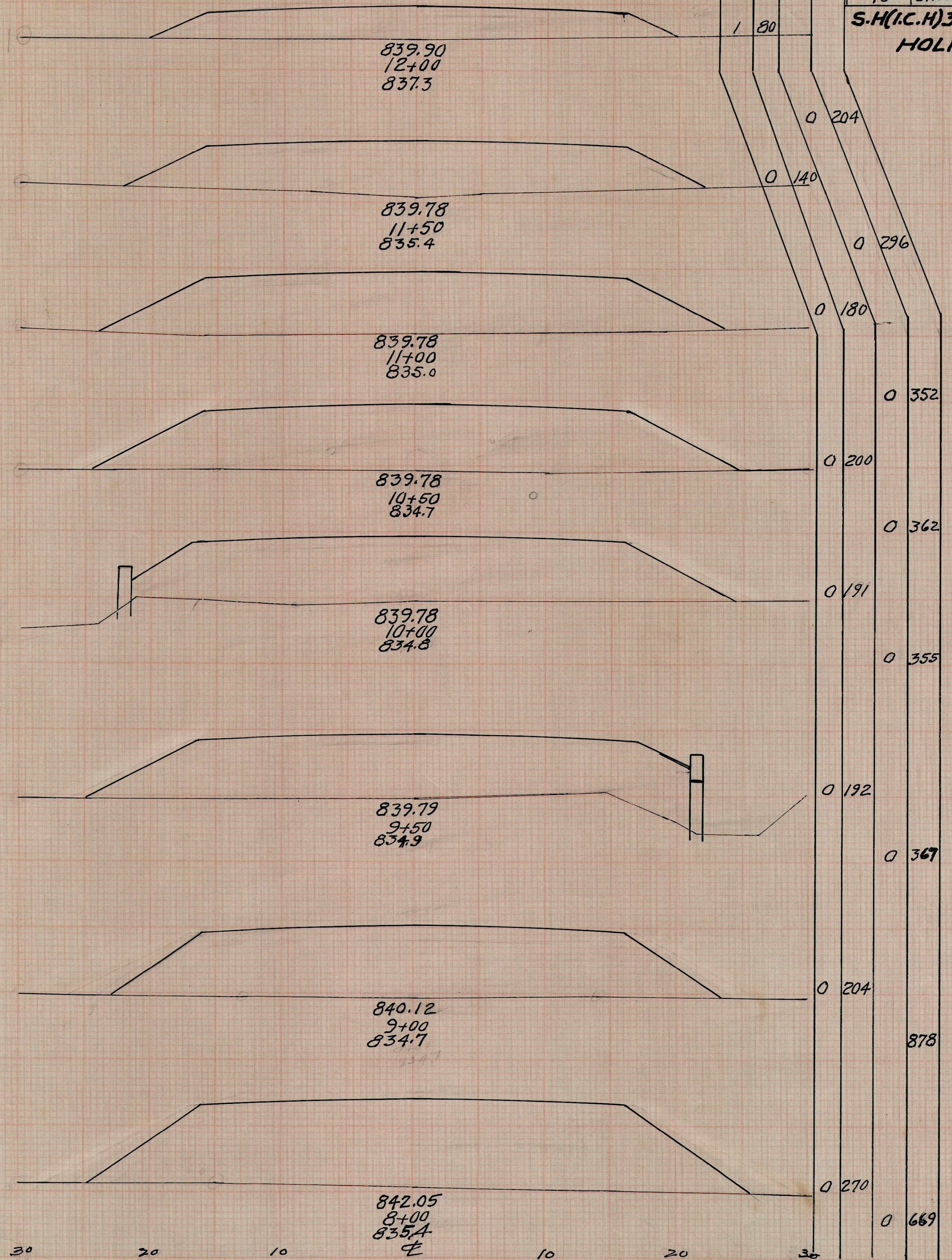
FEDERAL SURVEY
 STATE OF OHIO
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 DISTRICT NO. 10
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End Area		Cu. Yd.	
Cut	Fill	cut	fill
0	246	0	246
0	198	0	198
0	190	0	190
2	252	2	252
2	78	2	78
	App right.		20
5	153	5	153
3	87	3	87
4	135	4	135
1	59	1	59
5	79	5	79
4	26	4	26
8	75	8	75
4	55	4	55
6	83	6	83

Exp. Area		Cu. Yd.		FED. AID DIST. NO.	STATE	FED. AID PROJECT	FISCAL YEAR
Cut	Fill	cut	fill				
1	80	0	204	10	OHIO		1929
0	140	0	296				
0	180	0	352				
0	200	0	362				
0	191	0	355				
0	192	0	367				
0	204	0	270				
0	270	0	669				

S.H.(I.C.H)342.SEC.B-2.Brdg.
 HOLMES COUNTY.

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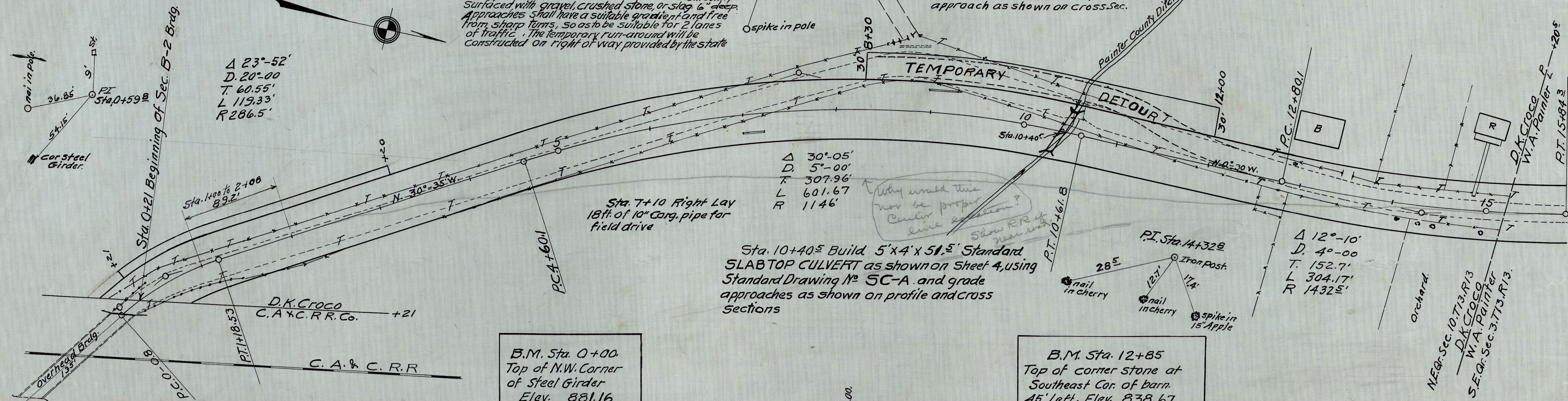
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SH.(CH) 342 SEC. B-2 Brdg. HOLMES COUNTY.

TEMPORARY BRIDGE
 The contractor shall construct, maintain and remove (upon completion of project) a temporary run-around bridge and approaches. The bridge shall have a 10 ton loading capacity, a roadway width of not less than 18 ft., floor elevation not lower than Elev. 838.00, adequate waterway opening, adequate supports and suitable railing. The approaches shall have a width of not less than 22 feet, of which not less than 19 ft. shall be smoothly surfaced with gravel, crushed stone, or slag 6" deep. Approaches shall have a suitable gradient and free from sharp turns, so as to be suitable for 2 lanes of traffic. The temporary run-around will be constructed on right of way provided by the state.



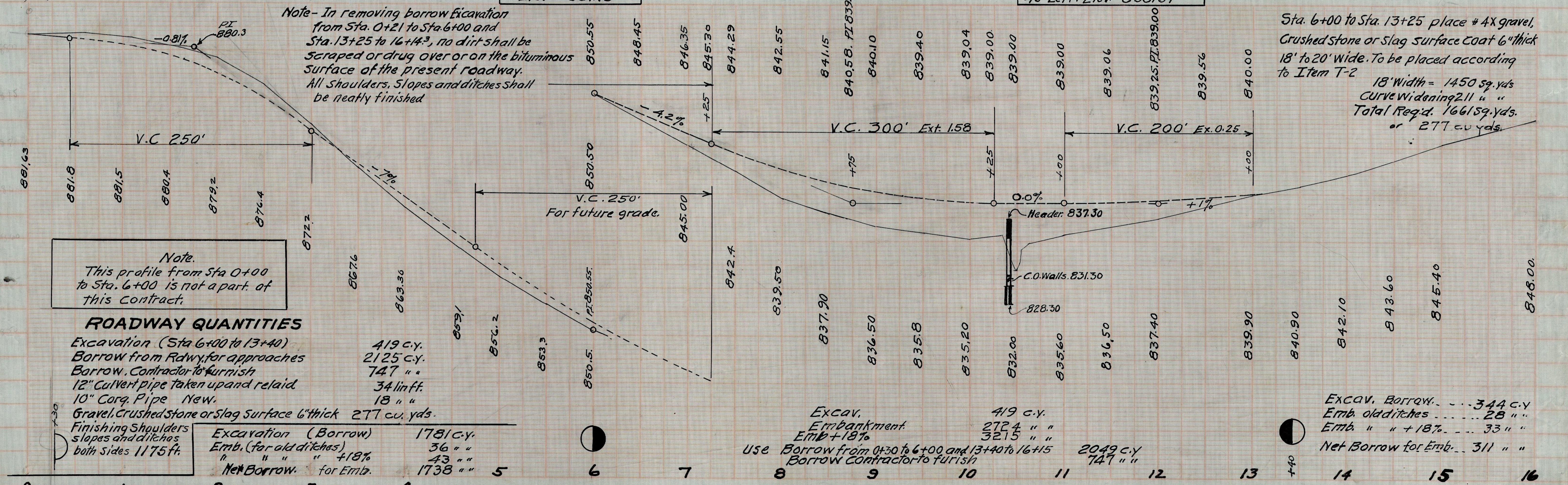
Sta. 10+40± Build 5'x4'x51.5' Standard SLABTOP CULVERT as shown on Sheet 4, using Standard Drawing No 5C-A and grade approaches as shown on profile and cross sections

B.M. Sta. 0+00
 Top of N.W. Corner of Steel Girder
 Elev. 881.16

B.M. Sta. 12+85
 Top of corner stone at Southeast Cor. of barn.
 45' Left. Elev. 838.67

Note- In removing borrow excavation from Sta. 0+21 to Sta. 6+00 and Sta. 13+25 to 16+14.3, no dirt shall be scraped or dug over or on the bituminous surface of the present roadway. All shoulders, slopes and ditches shall be neatly finished.

Sta. 6+00 to Sta. 13+25 place #4X gravel, Crushed Stone or Slag surface Coat 6" thick 18' width = 1450 sq. yds. Curve Widening 211 " " Total Req'd. 1661 sq. yds. or 277 cu. yds.



Note.
 This profile from Sta 0+00 to Sta. 6+00 is not a part of this contract.

ROADWAY QUANTITIES

Excavation (Sta 6+00 to 13+40) 419 c.y.
 Borrow from Rdwy. for approaches 2125 c.y.
 Borrow Contractor to furnish 747 " "
 12" Culvert pipe taken up and relaid 34 lin. ft.
 10" Cong. Pipe New 18 " "
 Gravel, Crushed Stone or Slag Surface 6" thick 277 cu. yds.
 Finishing Shoulders slopes and ditches both sides 1175 ft.

Excavation (Borrow)	1781 c.y.
Emb. (for old ditches)	36 " "
" " +18%	43 " "
Net Borrow for Emb.	1738 " "

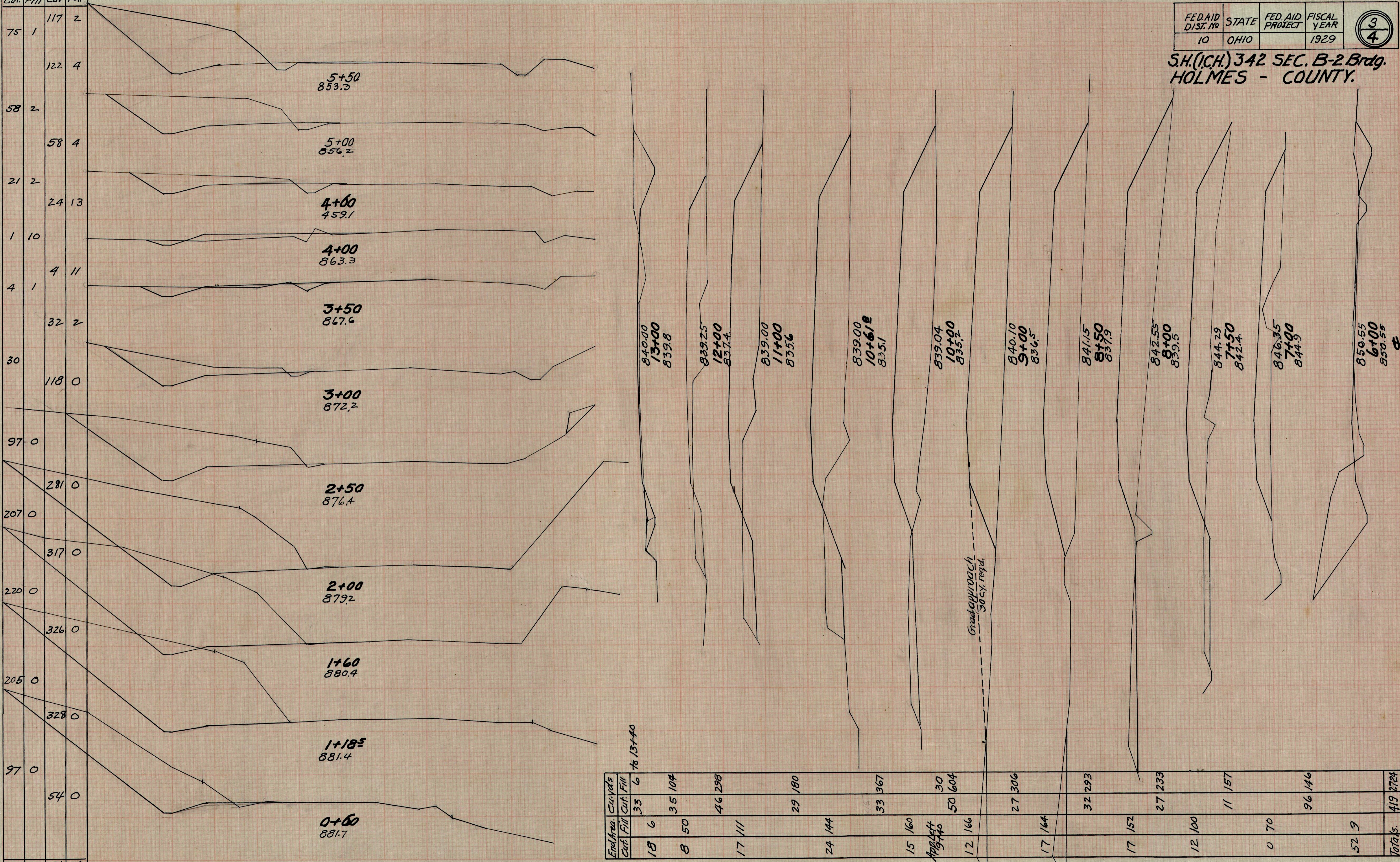
Excav. 419 c.y.
 Embankment 2724 " "
 Emb +18% 3215 " "
 Use Borrow from 0+30 to 6+00 and 13+40 to 16+15 2049 c.y.
 Borrow Contractor to furnish 747 " "

Excav. Borrow. 344 c.y.
 Emb old ditches 28 " "
 Emb " " +18% 33 " "
 Net Borrow for Emb. 311 " "

End Area		Cu. yds	
Cut	Fill	Cut	Fill
75	1	117	2
		122	4
58	2		
		58	4
21	2		
		24	13
1	10		
		4	11
4	1		
		32	2
30			
		118	0
97	0		
		281	0
207	0		
		317	0
220	0		
		326	0
205	0		
		328	0
97	0		
		54	0
		1781	36

FED. AID DIST. NO.	STATE	FED. AID PROJECT	FISCAL YEAR	3 4
10	OHIO		1929	

S.H. (I.C.H.) 342 SEC. B-2 Bldg.
HOLMES - COUNTY.



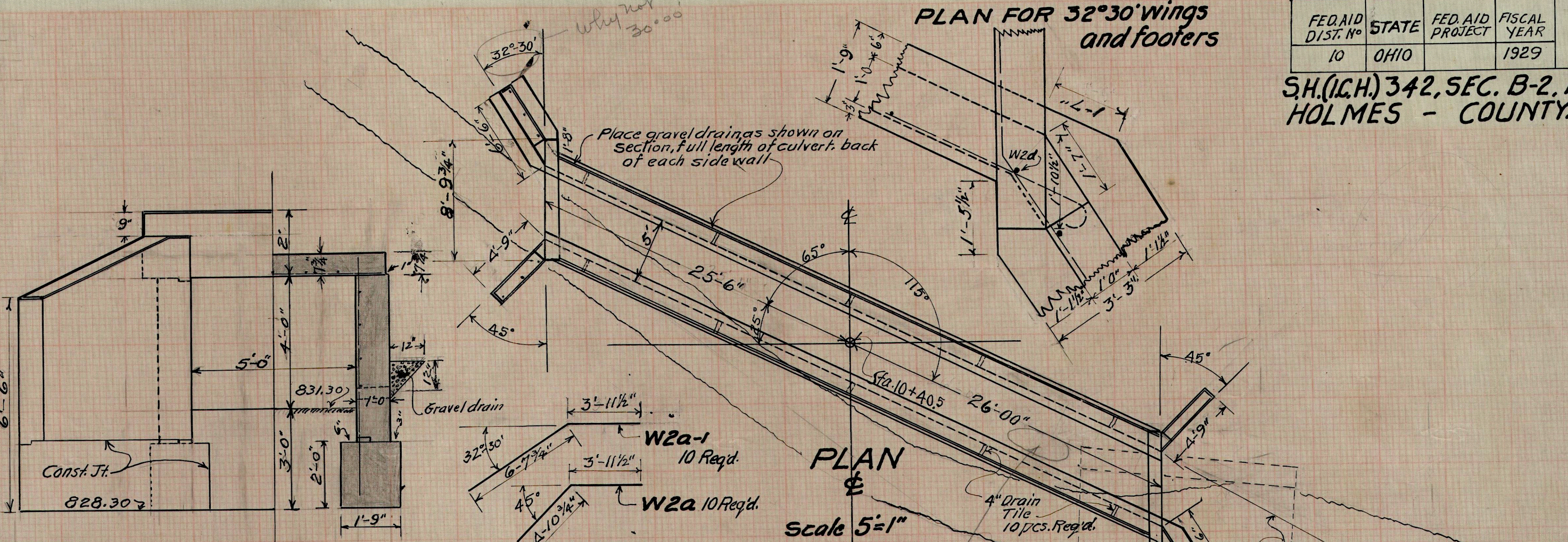
End Area	Cu. yds	Cut	Fill
18	6	33	6
8	50	35	104
17	111	46	298
24	144	29	180
15	160	33	367
App. left 9440		50	604
12	166		
17	164		
17	152		
12	100		
0	70		
52	9		
Totals.	419	2724	

5° Curve		P.C. Sta. 4+60.1		P.T. Sta. 7+78.06			
Left Edge	Width	Station	Align.	Grade	Width	Right Edge	Super.
		5+10.1	E.T.C.				1.08
851.46	9.00	6+00		850.55	11.00	850.38	1.08
850.41		+25		849.50		849.33	
849.36		+50		848.45		848.28	
848.31		+75		847.40		847.23	
847.26		7+00		846.35		846.18	
846.21		+25		845.30		845.13	
845.20		+50		844.29		844.12	
844.29		+75		843.38		843.21	
843.46		8+00		842.55		842.38	
842.71		+25		841.80		841.63	
842.06		+50		841.15		840.98	
841.49		+75		840.58		840.41	
841.01		9+00		840.10		839.93	
840.61		+25		839.70		839.53	
840.31		+50		839.40		839.23	
840.09		+75		839.18		839.01	
839.95		10+00		839.04		838.87	
839.92		+11. E.T.C.		839.01	11.00	838.84	1.08
839.81		+25		839.00	10.88	838.83	0.98
839.55		+50		839.00	10.41	838.83	0.72
839.46		+75		839.00	9.79	838.83	0.63
839.37		11+00		839.00	9.40	838.83	0.44
839.29		11+25		839.02	9.14	838.85	0.27
838.98		11+50		839.06	9.01	838.89	0.09
838.93	9.00	11+61.1	P.T.C.	839.10	9.00	838.93	0.00

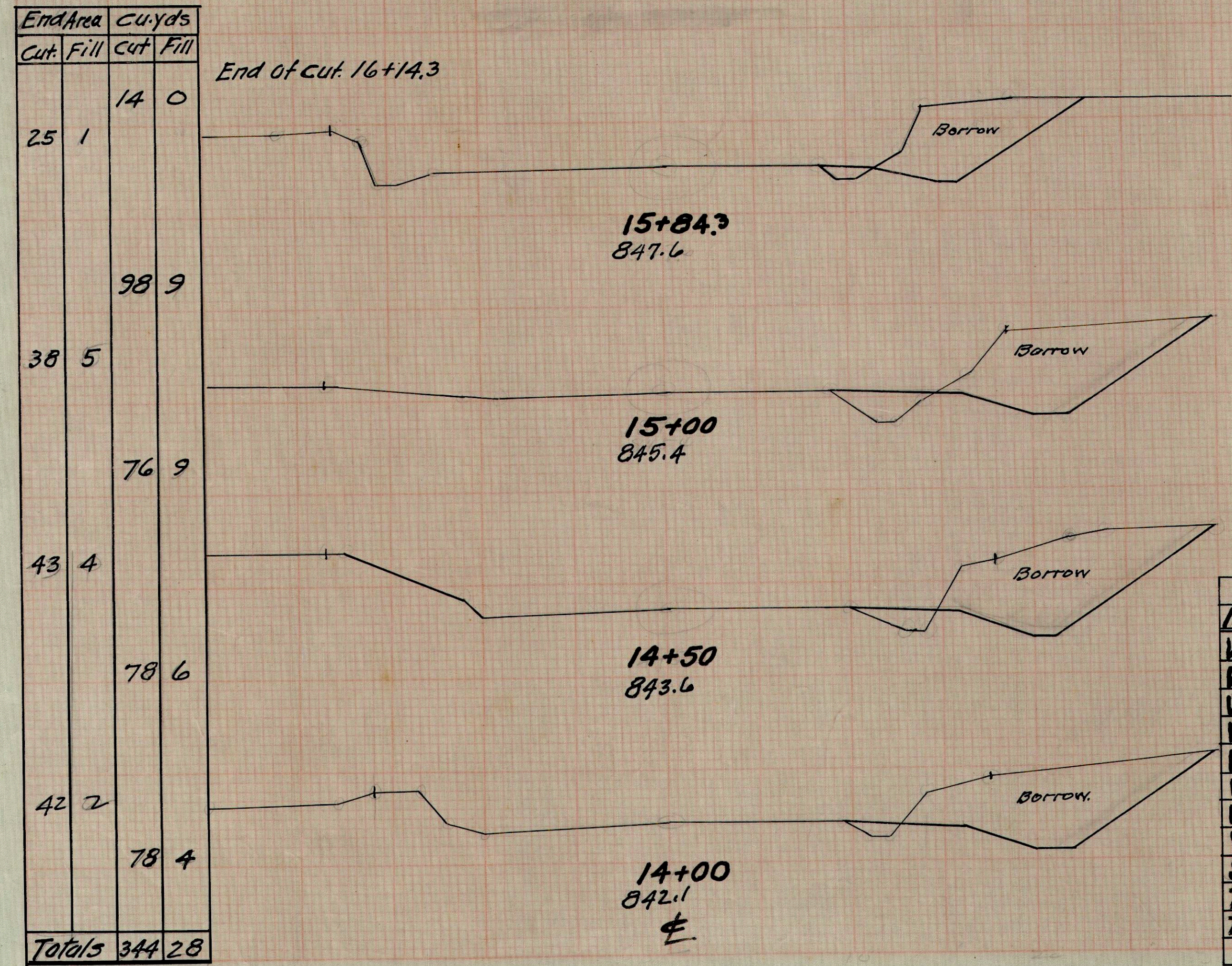
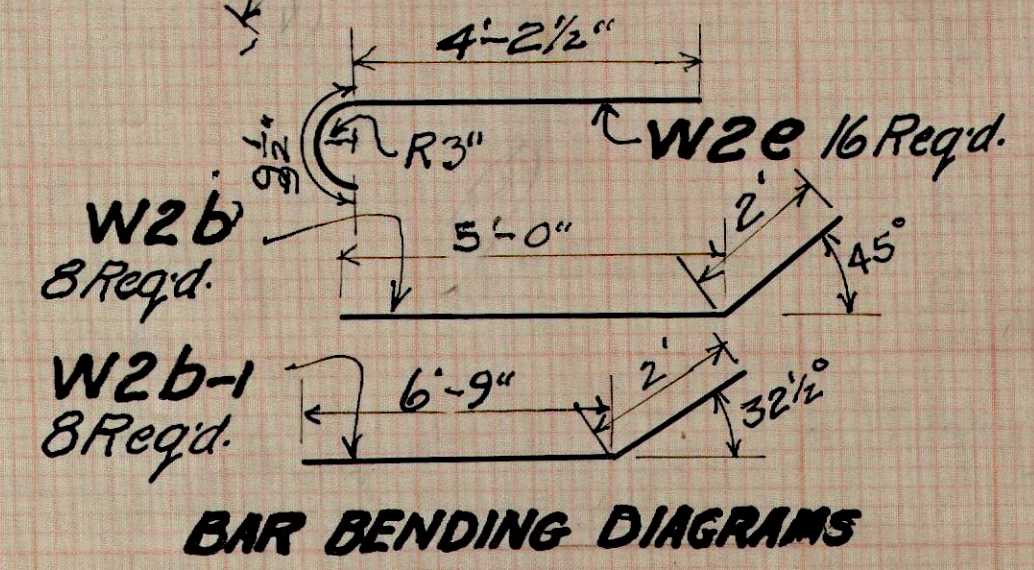
211 Sq. yds Widening req'd.

FED. AID DIST. NO.	STATE	FED. AID PROJECT	FISCAL YEAR
10	OHIO		1929

SH.(I.C.H.) 342, SEC. B-2, BRDG.
HOLMES - COUNTY.



HALF END VIEW HALF SEC.
FOR DETAIL USE STD. DR.#SC-A



Mark	No.	Size	Shape	Length	Weight
W2a	10	1/2" φ	bent	8'-10"	59
W2a-1	10	"	"	10'-7"	71
W2b	8	"	"	7'-0"	37
W2b-1	8	"	"	8'-9"	47
W2c	12	"	Strght	6'-6"	52
W2d	4	"	"	8'-6"	23
W2e	16	"	bent	5'-0"	53
V2a	104	"	Strght	7'-0"	485
T2a	15	1/2" φ	"	6'-6"	1003
T2a	15	"	"	25'-0"	250
Total					2360

Note: Splices are to be alternated on T2a bars.

ESTIMATED QUANTITIES.	
Excav & Refill	114 c.yds.
1-6 1/2 Concrete footers	16.7 "
1-5 1/2 " "	39.0 "
Reinforcing steel	2360 lbs.
Gravel drains inc. 10-4" tile	99 lin.ft.
Removing old Struct.	One Sum.
Temporary bridge & Approaches	One Sum.