FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	STATE	

1
58

LAWRENCE COUNTY
LAW-243-6.09

STATE OF OHIO
DEPARTMENT OF HIGHWAYS

LAW-243-6.09

PERRY TOWNSHIP

LAWRENCE COUNTY

DESIGN DESIGNATION

Current A.D.T. (1964)	660
Design Year A.D.T. (1988)	1169
D.H.V.	175
D. (directional distribution)	60 %
T. (percent B&C Trucks)	6.1 %
V. (design speed)	40M.P.H.

CONVENTIONAL SIGNS

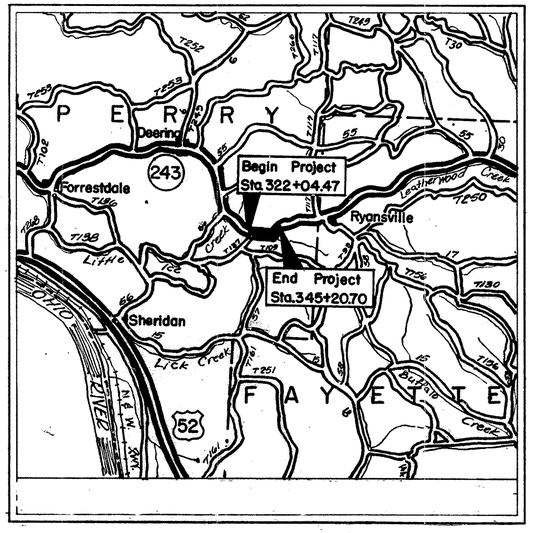
State Line
County Line
Township Line
Section Line
Center Line
Corporation Line
Limited Access and Right-of-Way
Limited Access Only — LA
Right of Way Only — RW
Existing Right-of-Way
Fence Line
Guard Rail (existing)
Guard Rail (proposed)
Property Line — PL
Railroad
Power Poles
Telephone Poles
Trees or Stumps (existing)

INDEX OF SHEETS

LINE DATA

Begin Project	Sta. 322+04.47	
End Project	Sta. 345+20.70	
Net Length of Project	2,316.23 Lin. Ft.	
	or 0.438 Mile.	
Begin Work	Sta. 320+00	
End Work	Sta. 347+75	
Gross Length of Work	2,775.00 Lin. Ft.	
	or 0.525 Mile.	

Revised As-Built



LOCATION MAP

SCALE OF MILES

1 0 1 2 3

Portion to be improved
State Roads
Other Roads

SCALES

Plan — 50' 0 50'
Profile: Horizontal — 50' 0 50'
Profile: Vertical — 10' 0 10'

1967 SPECIFICATIONS

The standard specifications of the State of Ohio, Department of Highways, including changes and supplemental specifications listed in the proposal shall govern this improvement.

The right-of-way for this improvement will be provided by the State of Ohio.

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 provisions for the maintenance and safety of traffic will be as set forth on the plans and estimates.

Approved W. Lee Jones R. Lewis
Date 11-17-67 Division Deputy Director

Approved C. H. Alexander
Date 2-29-68 Engineer of Bridges

Approved R. E. Gatlin
Date 2-29-68 Engineer of Location & Design

Approved P. E. Shultz
Date 2-29-68 Deputy Director of Design & Construction

Approved T. H. Bovard
Date 3-19-68 Deputy Director of Right of Way

No RR Hwy 2-29-68

Approved Thomas M. Mason
Date 3-20-68 Deputy Director of Planning & Programming

Approved R. W. Wilson
Date 3-20-68 First Assistant Director

Approved P. E. Masheter
Date 3-20-68 Director of Highways

Supplemental Prints of Standard Construction Drawings							
BP-5	6-1-65	MC-3	5-1-66	L-1	6-1-65		
BP-6	6-1-65	MC-4	6-1-65				
CB-2-2 R&B	6-1-65	SB-1-64 SH. 1&2	11-8-65				
GR-1	1-1-67	AS-1-67	1-11-68				
GR-2 A	1-1-67	MC-5	6-1-65				
HW-E	6-1-65	MC-8	12-1-67				
MC-1	10-1-67	BP-3	1-10-67				

Supplemental Specifications	
808	1-13-67
825	12-19-67
1001	3-21-66

File No.		
	Lawrence County	LAW-243-6.09
	Date of Letting	19
	Contract No.	

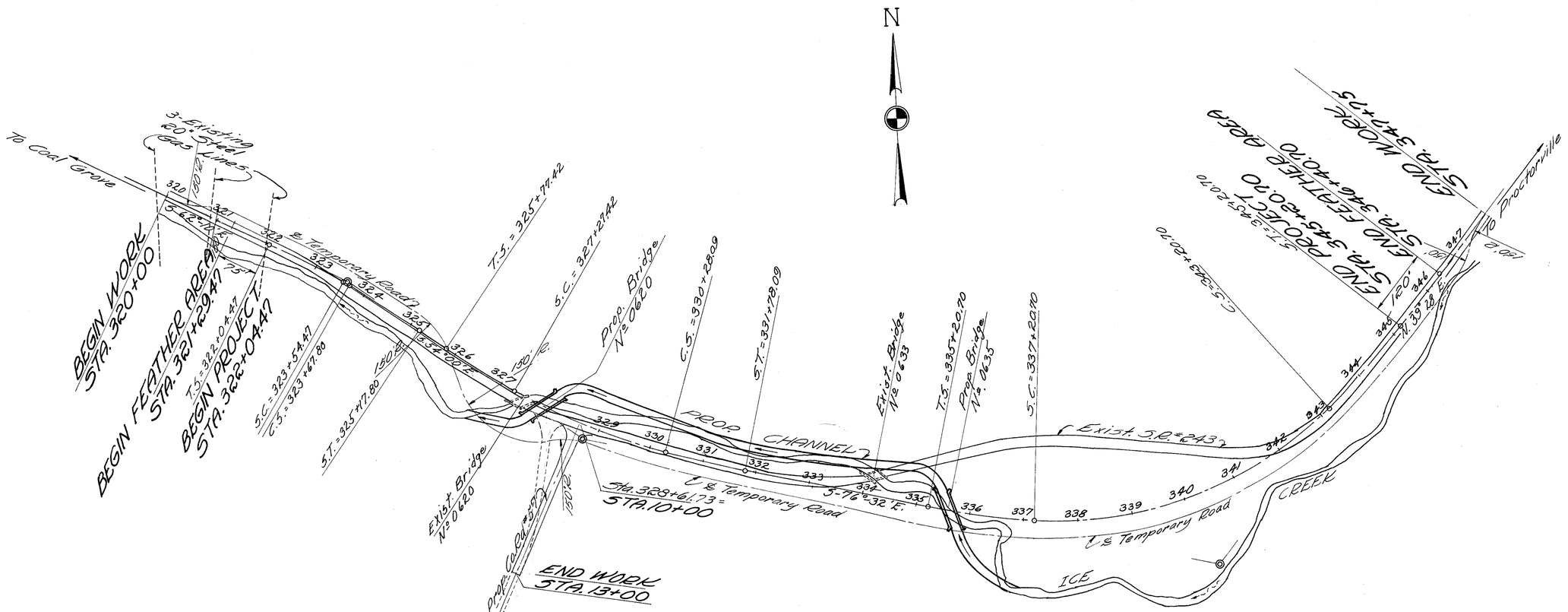
SCHEMATIC PLAN

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

2/58

LAW. 243-6.09

0' 100' 200'
Scale:



PROP. CURVE DATA

Spiral
P.I. = Sta. 323+61.33
Δ = 8°-10' Rt.
D_c = 5°
L_s = 150'
T_s = 156.86'
E_s = 3.73'
X_c = 149.94'
Y_c = 3.27
Θ_s = 3.75'

Circular
Δ = 0°-40'
D_c = 5°
R = 1145.92'
L = 13.33'

PROP. CURVE DATA

Spiral
P.I. = Sta. 328+80.86
Δ = 22°-32' Lt.
D_c = 5°
L_s = 150
T_s = 303.44'
E_s = 23.33
X_c = 149.94
Y_c = 3.27
Θ_s = 3.75'

Circular
Δ = 15°-02'
D_c = 5°
R = 1145.92
L_c = 300.67

PROP. CURVE DATA

Spiral
P.I. = Sta. 340+69.62
Δ = 64°-00' Lt.
D_c = 8°
L_s = 200'
T_s = 548.92
E_s = 131.1
X_c = 199.61
Y_c = 9.30
Θ_s = 8.0'

Circular
Δ = 48°-0'
D_c = 8°
R = 716.20
L_c = 600.00

SCHEMATIC PLAN

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

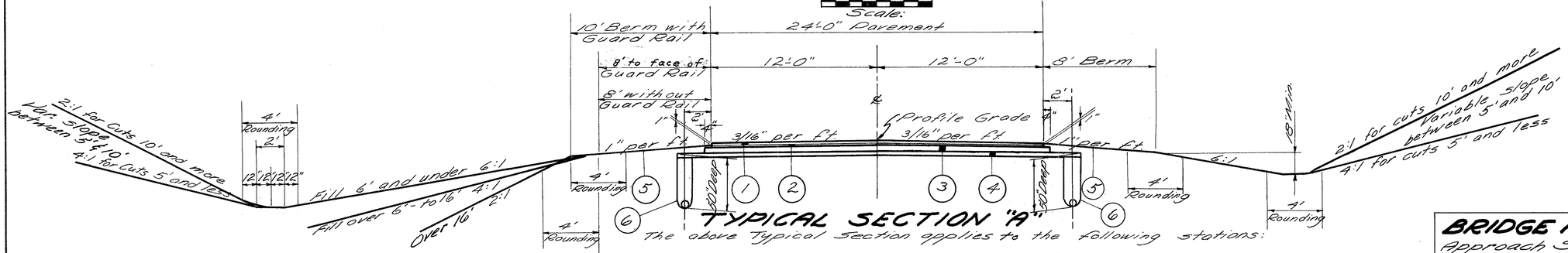
3/58

LAW. 243-6.09

TYPICAL SECTIONS

404 on 301

0' 2' 4' 6' 8'
Scale:



TYPICAL SECTION "A"

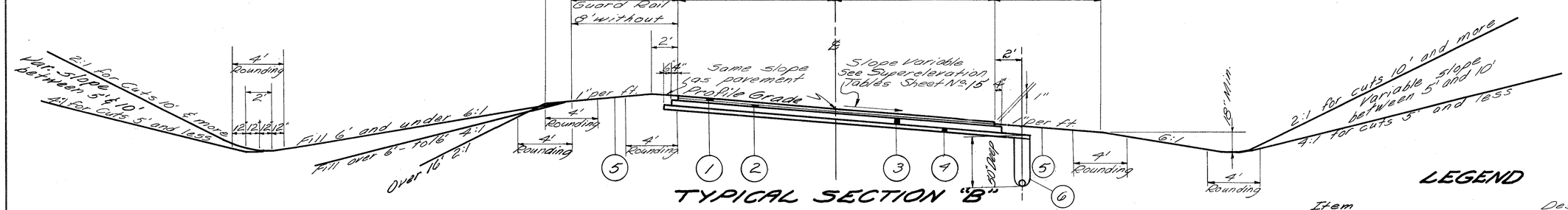
The above Typical Section applies to the following stations:

Sta. 325+17.80	to	Sta. 325+77.42	=	59.62	Lin. Ft.
Sta. 331+78.09	to	Sta. 335+20.70	=	342.61	Lin. Ft.
		Total	=	402.23	Lin. Ft.

Note: For underdrain elevations see cross sections

BRIDGE No.-LAW. 243-0620
Approach Slabs & Bridge Limits
Sta. 327+51.56 to Sta. 328+22.44

BRIDGE No.-LAW. 243-0635
Approach Slabs & Bridge Limits
Sta. 335+24.26 to Sta. 335+95.14



TYPICAL SECTION "B"

The above Typical Section applies to the following Stations:

Sta. 322+04.47	to	Sta. 325+17.80	=	313.33	Lin. Ft.
Sta. 325+77.42	to	Sta. 327+51.56	=	174.14	Lin. Ft.
Sta. 328+22.44	to	Sta. 331+78.09	=	355.65	Lin. Ft.
Sta. 335+20.70	to	Sta. 335+24.26	=	3.56	Lin. Ft.
Sta. 335+95.14	to	Sta. 345+20.70	=	925.56	Lin. Ft.
		Total	=	1,772.24	Lin. Ft.

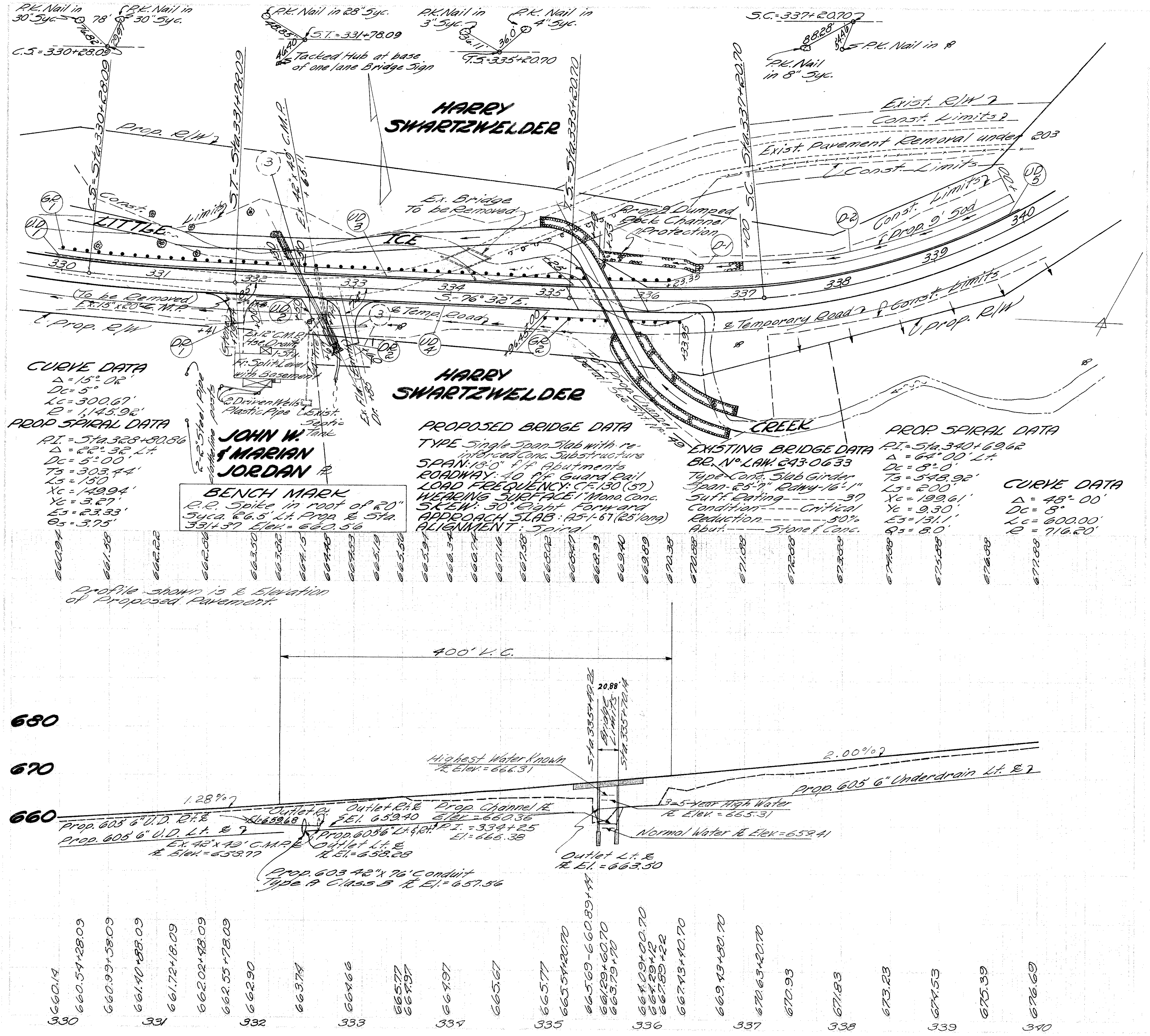
LEGEND

Item		Description	
(1)	404	1"	Asphalt Concrete (85-100)
(2)	402	1¼"	Asphalt Concrete (85-100)
(3)	301	4"	Bituminous Aggregate Base = 702.01 (85-100); or 702.09 BT 10
(4)	310	4"	Subbase
(5)	659		Seeding and Mulching (See General Notes)
(6)	605	6"	Deep pipe underdrains (unless otherwise shown on plans)

Drawn	Traced	Checked
D.D.B. 6-7-67	R.H. 6-9-67	JN 6-12-67

TYPICAL SECTIONS

LAW. 243-6.09



CURVE DATA
Δ=15°02'
Dc=5°
Lc=300.67'
R=1,145.92'

PROP SPIRAL DATA
P.I.=Sta.328+80.86
Δ=22°32' Lt.
Dc=5°00'
Ts=303.44'
Ls=150'
Xc=149.94'
Yc=3.27'
Es=23.33'
θs=3.75'

BENCH MARK
R.R. Spike in root of 20" Syca. 26.5' Lt. Prop. ℄ Sta. 331+37 Elev.=660.56

PROPOSED BRIDGE DATA
TYPE Single Span Slab with reinforced Conc. Substructure
SPAN: 18'-0" f/f Abutments
ROADWAY: 40 f/f Guard Rail
LOAD FREQUENCY: CF-130 (57)
WEARING SURFACE: 1" Mono. Conc.
SKEW: 30° Right Forward
APPROACH SLAB: AS-1-67 (25' long)
ALIGNMENT: Spiral

EXISTING BRIDGE DATA
BR. N° LAW. 243-0633
Type-Conc. Slab Girder
Span-25'-7" Rdwy-16'-1"
Suff. Rating ------------ 37
Condition ------------ Critical
Reduction ------------ 50%
Abut. ------------ Stone & Conc.

PROP SPIRAL DATA
P.I.=Sta.340+69.62
Δ=64°00' Lt.
Dc=8°0'
Ts=548.92'
Ls=200'
Xc=199.61'
Yc=9.30'
Es=131.1'
θs=8.0'

CURVE DATA
Δ=48°00'
Dc=8°
Lc=600.00'
R=716.20'

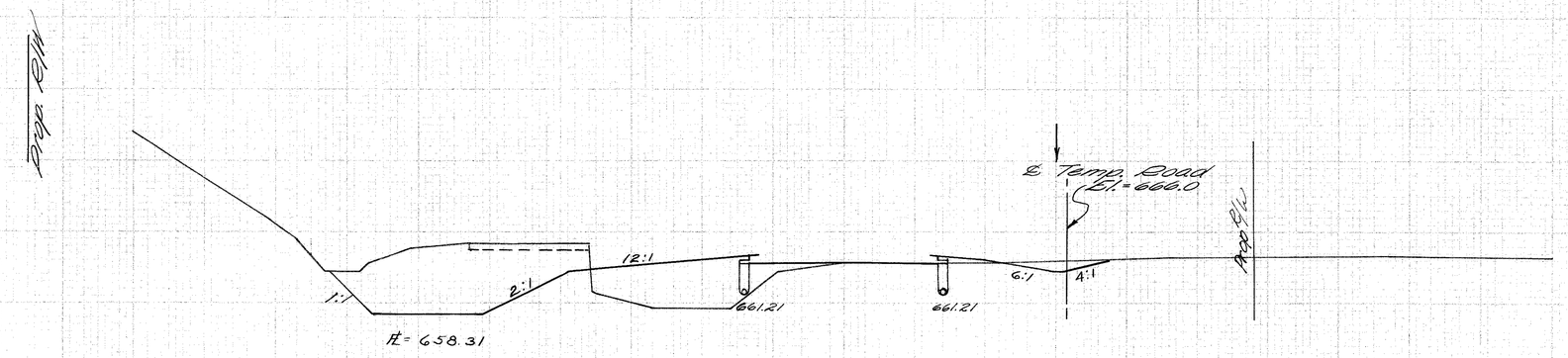
	404 Asphaltic Concrete 2" S.Y.	304 Aggregate Base 5" S.Y.	304 Aggregate Base 6" S.Y.	304 Aggregate Base 8" S.Y.	601 D.R.C.P. 18" C.Y.	408 Bitum Prime Coat S.Y.	606 Guard Rail Type 4 L.F.	660 Sodding 9' S.Y.	Type F 6" L.F.	603	605 6" Pipe Underdrains Deep L.F.	605 6" Pipe Underdrains Unclass. L.F.	605 Bends and Branch 6" Each	202 Pipe Removed 24" & Under L.F.
D-1 335+53 - 337+00 Lt.					73.5									
D-2 337+00 - 340+00 Lt.								300						
DR-1 331+79.44 Rt.	84.19	89.90				89.90								
DR-2 332+85 Rt.			104.54											20
GR-1 330+00 - 336+23.35 Lt.							623.35							
GR-2 334+96.45 - 336+33.95 Rt.							137.50							
Deduct for Bridge							-41.76							
UD-1 330+00 - 332+30 Lt.											230			
UD-2 332+00 - 332+67 Rt.									10			74	1	
UD-3 332+50 - 335+25 Lt.									10		275	8	1	
UD-4 332+74 - 335+00 Rt.									10		150	92	1	
UD-5 335+49 - 340+00 Lt.									10		400	48	1	
For Calculation of Quantities See Sheet No. 7														
3 332+50.3 ℄	For Quantities See Sheet No. 40													
Total	84.19	89.90	104.54		*73.5	*89.90	*719.09	*300	*40		*1055	*222		*20

Quantities carried to Sheet No. 8
*Quantities carried to Sheet No. 9

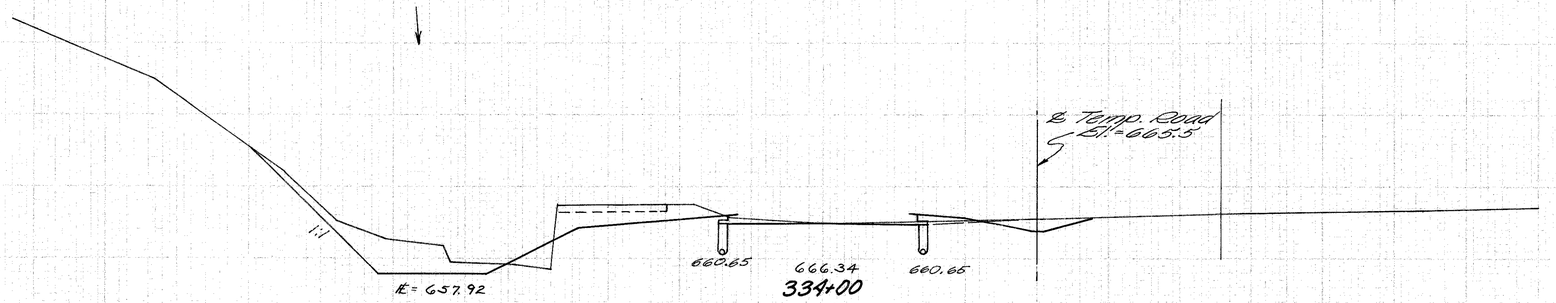
STA. 330+00 TO STA. 340+00

25
58

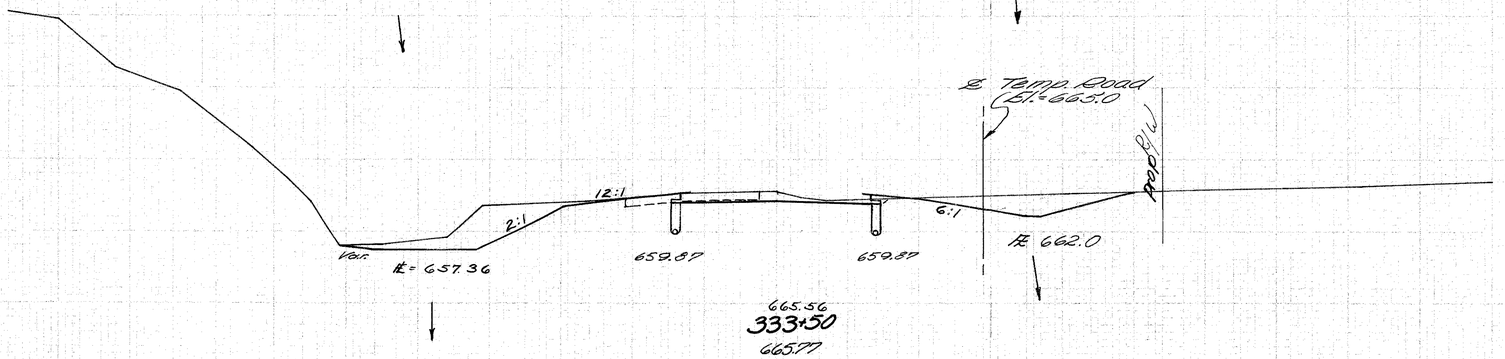
LAW. 2A3 - 6.09



666.90
334+35
665.57



666.34
334+00
664.97



665.56
333+50
665.77

94
394
109
558
92
517
94

263.131
149.31
281.31
155.2
228.13
91.11

Calculated by R.H. 5-26-67
Checked by JHF 6-6-67

Calculated by R.H. 5-23-67
Checked by JHF 6-6-67

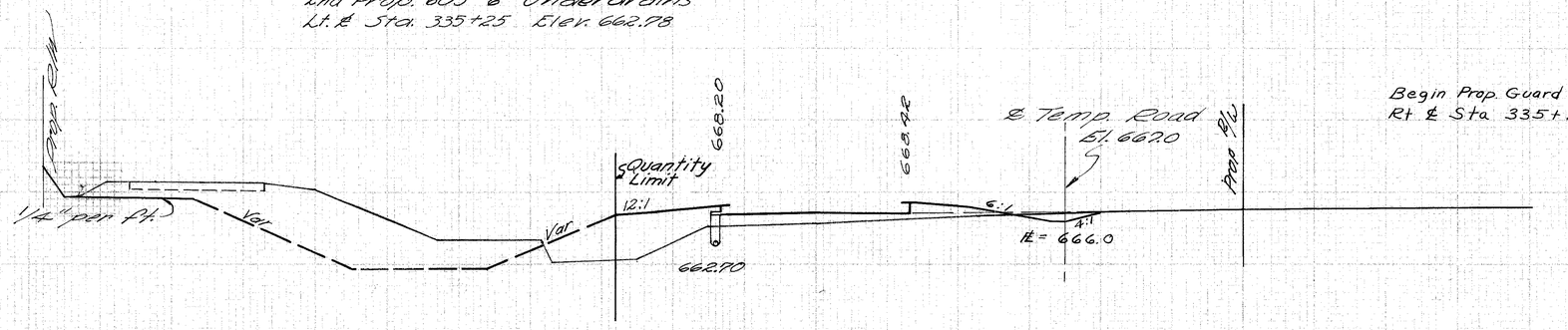
STA 330+00

140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120 140

STA. 333+50 TO STA. 334+35

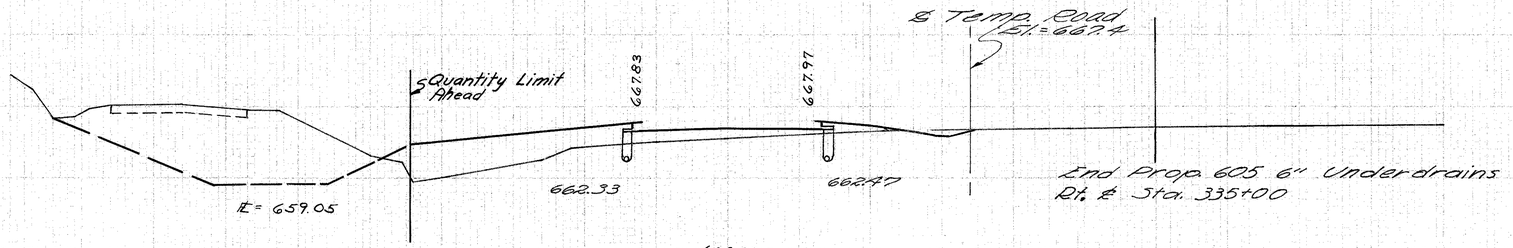
LAW.243-6.09

End Prop. 605 6" Underdrains
Lt. ℄ Sta. 335+25 Elev. 662.78



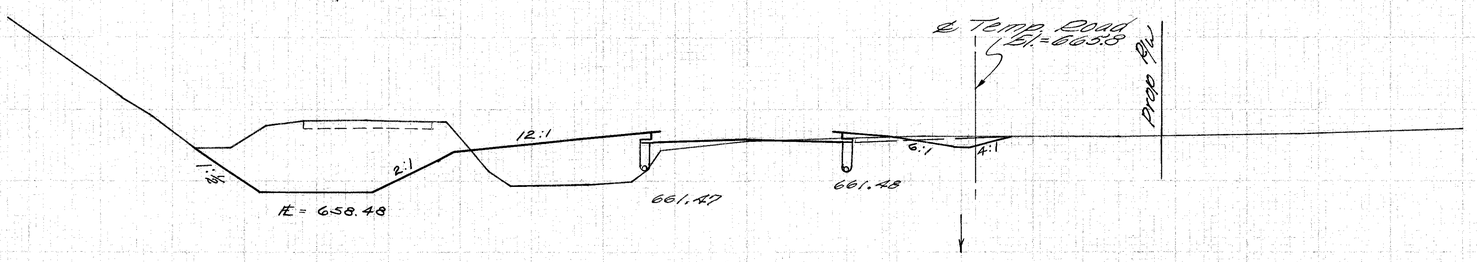
Begin Prop. Guard Rail
Rt ℄ Sta 335+21.45

668.39
335+20.70
665.54



End Prop. 605 6" Underdrains
Rt ℄ Sta. 335+00

668.02
335+00
665.71



667.16
334+50
665.67

Calculated by RH 5-25-67
Checked by JHF 6-7-67

Calculated by RH 5-23-67
Checked by JHF 6-7-67

STA 334+35

STA 334+35

140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120 140

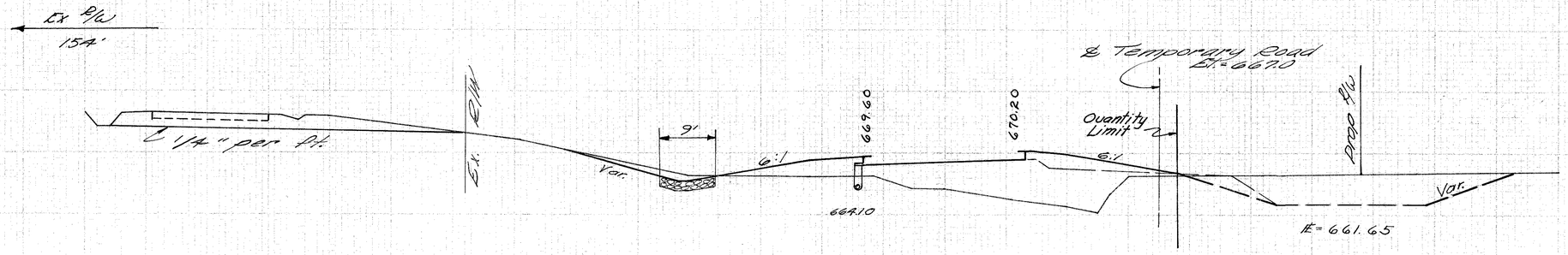
STA. 334+50 TO STA. 335+20.70

66 145 60 439 98 158 94

34135 15119 5173 293312 310164 157 93 256172

27
58

LAW. 243 - 6.09



Begin Prop. 9' Dumped Rock Channel Protection L.t. & Sta. 335+53

669.90
336+00.70
669.09

Prop. Underdrain Outlet
43' Lt. 335+49 Elev. = 663.5

127.308

133

450

144349

133 Ahead Sta. 335+70.14
44 Back Sta. 335+70.14

12

26 Ahead Sta. 335+67
70 Back Sta. 335+67

109

70 Ahead Sta. 335+53
44 Back Sta. 335+53

80 Add for Erosion Protection after Pavement Removal between the Bridge Limits

15

26 Ahead Sta. 335+49.26
60 Back Sta. 335+49.26

210

66 STA 335+20.70

Calculated by R.H. 5-26-67
Checked by THF 6-7-67

BRIDGE LIMIT STA 335+70.14

BRIDGE LIMIT STA 335+49.26

Sta. 335+70.14 Ahead 127.308
Sta. 335+70.14 Back 17 0

2 0

Sta. 335+67 Ahead 17 0
Sta. 335+67 Back 25 0

Add for Pavement Removal between the Bridge Limits 53
13 0

Sta. 335+53 Ahead 25 0
Sta. 335+53 Back 8 0

1 0

Sta. 335+49.26 Ahead 8 0
Sta. 335+49.26 Back 34135

Calculated by R.H. 5-23-67
Checked by THF 6-7-67

36143

STA 335+20.70 34135

140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120 140

STA. 335+60.70 TO STA. 336+00.70

LAW. 243 - 6.09

Ex R/W
178'
1/4" per Ft.
160 150
Ex. R/W
Prop R/W
671.88
673.88
6:1
4:1
℄ = 669.0
666.38
℄ Temp. Road
El. 670.4
6:1
Prop R/W

672.88
337+50
670.93
89
178'
1/4" per Ft.
292
150 150
Prop R/W
671.31
673.28
℄ = 668.4
665.81
℄ Temp. Road
El. = 670.1
Prop R/W
71.88
74.89

Begin Prop. 9' Sod Ditch
Lt. ℄ Sta. 337+00

End Prop. Dumped Rock
Channel Protection
Lt. ℄ Sta. 337+00

672.29
337+20.70
670.63
90
174'
1/4" per Ft.
556
160 150
Ex. R/W
Prop R/W
9'
670.72
672.26
℄ = 667.8
665.22
8:1
24:1
℄ Temp. Road
El. = 669.0
Quantity Limit
Prop R/W
66.77
98.565

Calculated by RH 5-24-67
Checked by JHF 6-7-67

671.49
336+80.70
669.43
160
170'
1/4" per Ft.
496
162
Ex. R/W
Prop R/W
9'
670.34
671.54
℄ = 667.4
664.84
8:1
24:1
℄ Temp. Road
El. = 667.6
Quantity Limit
Prop R/W
66.432
92.411

670.94
336+53
667.93
213
167'
1/4" per Ft.
150
629
Ex. R/W
Prop R/W
9'
670.16
671.22
4:1
6:1
℄ = 666.8
664.66
℄ Temp. Road
El. 667.0
Quantity Limit
24:1
Prop R/W
113.368
56.161
134.318

670.69
336+40.70
667.93
133
STA 336+00.70
End Prop. Guard Rail
Lt. ℄ Sta. 336+23.35
End Prop. Guard Rail
Rt. ℄ Sta. 336+33.05
STA 336+00.70
193.463
127.308

140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120 140

STA. 336+40.70 TO STA. 337+50

FED. RD. DIVISION	STATE	PROJECT		
2	OHIO			

49
58

LAW-243 - 6.09

4.7± Miles Northeast of Coal Grove

UTILITY OWNERS
Ohio Power Electric Co. Ironton, Ohio
General Telephone Co. Chesapeake, Ohio Exchange

CURVE DATA
P.I. Sta 19+29.01
Δ = 65°50'
Lc = 60.66
R = 52.79
T = 34.17

Channel Work Built Section Sta 19+09.7 ℄ Channel Lt. Sta 335+10 & Rdwy

Ex. S.R. 243

Prop. Dumped Rock ℄ Channel Protection (30" thick)

End Prop D.C.P. Begin Lt. & 337+00 S. Sod Drive

SC 337+22.70

Ex. Bridge No. LAW-243-0635

Begin ℄ Approach Slab Sta. 335+70.14

P.T. 19+33.5 / P.T. 19.335+20.70

S 76°32' E

End Approach Slab Sta. 335+49.26

℄ Prop. S.R. 243

P.I. STA. 340+69.62
SPIRAL DATA
Δ = 64°-00 Lt.
Dc = 8°
Ls = 200'
Ts = 548.92'
Xc = 199.61
Yc = 9.30'
Θ = 8.0°

CURVE DATA
Δ = 48°00'
Dc = 8°
Lc = 600.00'
Rc = 716.20'

Sta. 335+58.70 (SR 243) ℄ Sta 20+00 (Channel ℄)

Prop Dumped Rock Channel Protection (30" thick)

CHANNEL CURVE DATA
P.I. Sta 21+243
Δ = 49°30
R = 157.40
L = 135.93
T = 72.56

Bridge Limits

ICE CREEK

BENCH MARK
U.S.G.S. B.M. Brass tablet stamped #61 JJS, 1956 (tablet in 0.6'x0.6' concrete pedestal)
8' Lt. of Sta. 325+80 El. 654.97

400 V.C.

El. 666.31 Highest Water known

El. 665.31 3-5 Year High Water

Footing El. 655.93

Footing El. 656.36

El. 653.41 Normal Water

Excavate Channel through Structure to El. 660.36

2.0%

EXISTING BRIDGE DATA
BRIDGE NO. LAW-243-0633

Type	Conc. Slab Girder
Span	25'-7"
Rdwy	16'-1"
Skew	40° R.F.
Suff. Rating	37
Condt.	Critical
Reduct.	50%
Abut.	Stone & Conc.

DRAINAGE AREA = 0.88 Sq. Mi.

PROPOSED BRIDGE DATA

TYPE: Single Span Slab with reinforced Concrete Substructure
SPAN: 18'-0" ℄ Abutments
ROADWAY: 40'-0" ℄ to Guard Rail
LOAD FREQUENCY: CF-130(57)
WEARING SURFACE: 1" Mono. Conc.
SKEW: 30° Right Forward
APPROACH SLABS: AS-1-67 (25' long)
ALIGNMENT: Spiral

SITE PLAN

STRUCTURE NO. LAW-243-0635
S.R. 243 over ICE CREEK
LAWRENCE COUNTY STA. 335+49.26 to STA. 335+70.14
SCALE 0 10 20

PRESENT TOPOGRAPHY		PROPOSED WORK			
SURVEYED	DRAWN	DESIGNED	DRAWN	CHECKED	REVIEWED
	LLF	LLF	LLF		

LAW-243-6.09

50
58

D.R.C.P. End Area	D.R.C.P. Volume	End Area Cut	End Area Fill	Volume Cut	Volume Fill	Seeding End Width	Seeding Sq. Yds.
56		124	2				
	51			152	1		0
28		126	0				
	5			38	0		15
0		100	0				
	0			69	0	21	
0		13	0				
	0			33	0		
0		41	0				
	5			17	6		
28		64	38				
	34			194	31		
28		265	13				
	16			163	6		
28		320	8				
	15						
28							
0							

*503 EXCAVATION = 257 C.Y.
203 EXCAVATION = 1271 C.Y.
203 EMBANKMENT = 50 C.Y.
659 SEEDING = 2.17 S.Y.
601 D.R.C.P. = 360 C.Y.

*Quantity carried to General Plan Sheet No. 5
All other quantities carried to General Summary Sheet No. 9

Calculated by JTHF 6-13-67
Checked by LLF 6-21-67

Checked by LLF 6-21-67
Calculated by JTHF 6-13-67

Calculated by JTHF 6-13-67
Checked by LLF 6-21-67

Checked by LLF 6-12-67
Calculated by JTHF 6-21-67

503 EXCAVATION

	End Area Cut	Volume Cut
Ahead	0	
Back	42	
		14
Ahead	41	
Back	89	
		119
	94	
		110
Ahead	76	
Back	35	
		14
Ahead		
Back		
		84
Ahead	46	
Back	0	
	257	Total 503 EXCAVATION

Quantity Limit
10'
2:1
661.11
20+75
666.1

Begin Prop DRCP Lt. of Sta. 20+42.09
End 503 Excavation Sta 20+44.09
Prop. Dumped Rock Channel Protection (30" thick)
503 Excavation
660.36
20+42.09
665.7

20+35.09
Begin Prop DRCP Rt. of Sta. 20+33.09
660.36
20+33.09
665.6

20+0
660.36
20+0
660.7

19+64.91
660.36
19+66.91
662.1

End Prop DRCP Lt. of Sta. 19+66.91
Quantity Limit
Ahead
Back
Begin 503 Excavation Sta 19+55.91
660.36
19+57.91
664.1
503 Excavation

Quantity Limit
Prop. Dumped Rock Channel Protection (30" thick)
659.47
19+25
666.1

Quantity Limit
Ahead
Var.
10'
2:1
Ahead
Back
659.05
19+09.7 = STA. 335+00
669.5
Butt Section
Begin Prop DRCP Lt. of Sta. 18+94.84
STA. 18+94.84
Ahead Back

50 40 30 20 10 ℄ 10 20 30 40 50

END CHANNEL WORK STA. 22+11.7

End Prop. DRCP Lt. of Sta. 21+88.9
Quantity Limit
10'
Sta. 21+88.9
663.7
21+87.72
663.7

End Prop DRCP Rt of Sta. 21+86.2
STA. 21+86.2
10'
663.40
21+75
663.8

Prop Dumped Rock Channel Protection (30" thick)
662.83
21+50
668.2

662.26
21+25
667.6

Quantity Limit
Prop. Dumped Rock Channel Protection (30" thick)
661.69
21+0
666.9

Sta. 20+75
Sta 20+75

D.R.C.P. End Area	D.R.C.P. Volume
0	0
	0
Ahead 0	
Back 28	
	1
28	
	2
2	
Ahead 28	
Back 56	
	23
56	
	40
52	
	171
56	
	179
56	
	142
52	
	127
56	
	123
52	
	138
56	
52	124
56	

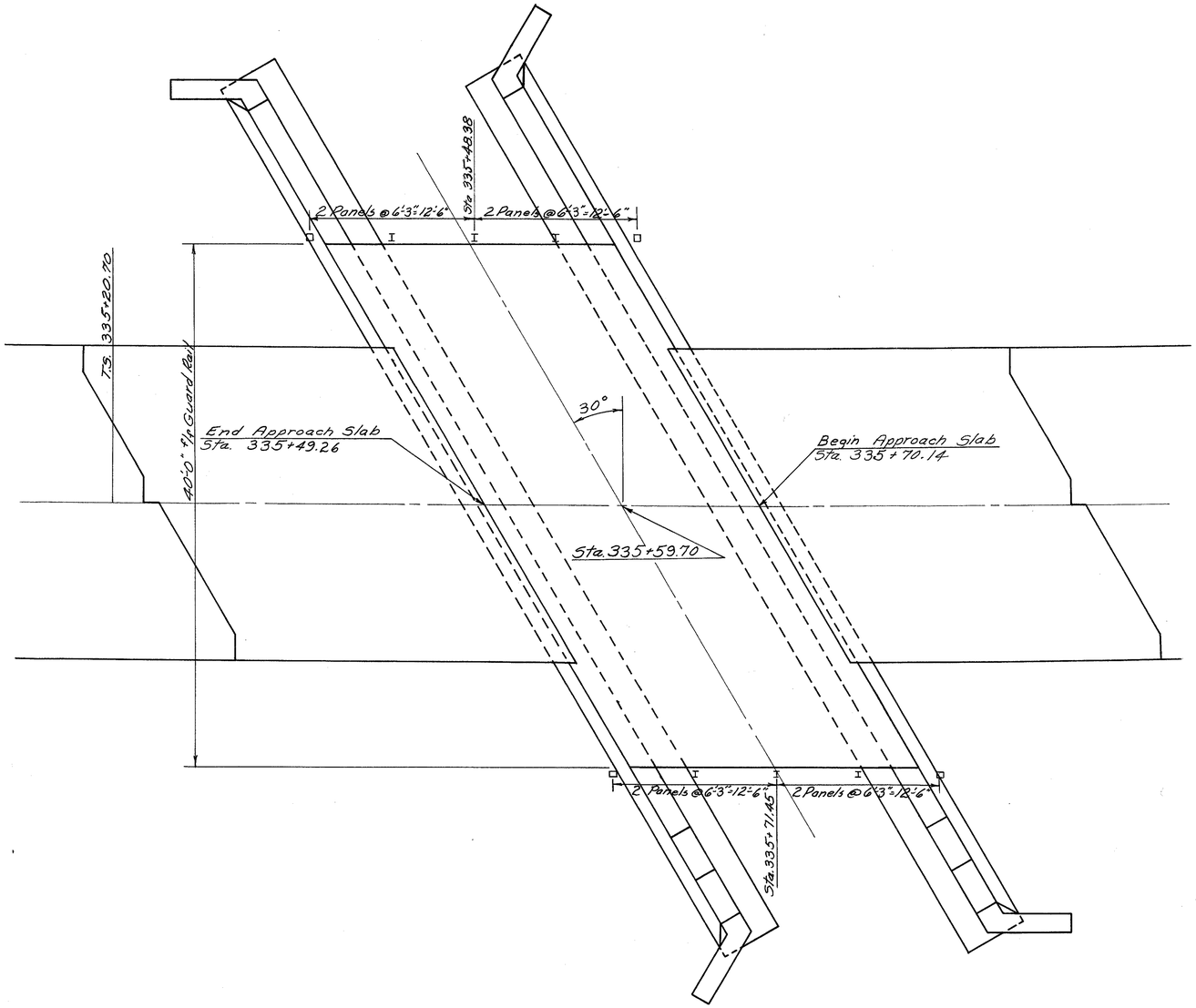
217	TOTAL	360
	TOTALS	1271

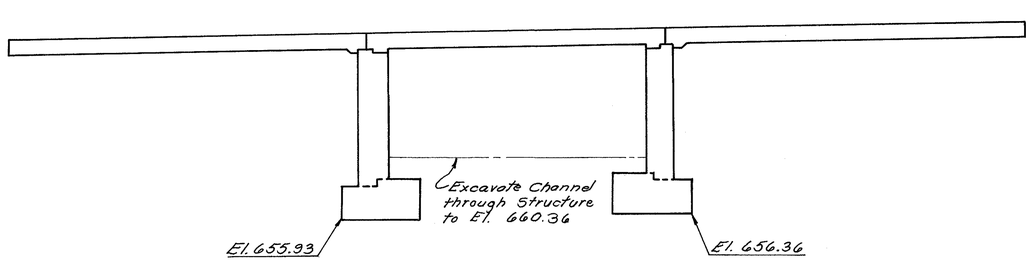
50 40 30 20 10 ℄ 10 20 30 40 50

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

51/58

LAW-243-6.09





ESTIMATED QUANTITIES

ITEM	TOTAL	UNIT	DESCRIPTION	ABUT.	SUPERSTR	GEN'L	Revised As-Built
202	Lump	Sum	Existing Structure Removed			Lump	
*503	257	C.Y.	Unclassified Excavation	257			5-168 172
503	Lump	Sum	Cofferdams, Cribs & Sheeting			Lump	
509	11,731	Lbs.	Reinforcing Steel	4,069	7,662		
511	36.1	C.Y.	Class "C" Conc., Superstructure		36.1		
511	96.3	C.Y.	Class "E" Conc., Abutment Walls	96.3			
511	70.5	C.Y.	Class "E" Conc., Footings	70.5			
516	11	S.F.	1/2" Preformed Expansion Joint Filler		11		
517	41.76	L.F.	Railing (Type Deep Beam with Steel Posts & Bolts)		41.76		
518	64	C.Y.	Porous Backfill	64			
808	36	Gal.	Water-reducing, Set-retarding Admixture		36		6-2 36
825	122	S.Y.	Concrete Surface Treatment	17	105		

GENERAL NOTES

STANDARD CONSTRUCTION DRAWINGS: SB-1-64 Dated 11-8-65
AS-1-67 Dated 1-11-68
GR-2 A Dated 1-1-67

SUPPLEMENTAL SPECIFICATIONS: No. 808 Dated 1-13-67
No. 825 Dated 12-19-67

* Carried from Sheet No. 50

GENERAL PLAN & ELEVATION NOTES & ESTIMATED QUANTITIES

STRUCTURE NO. LAW-243-0635
S.R. 243 over ICE CREEK
LAWRENCE COUNTY STA. 335+49.26
SCALE 0 5' 10' to STA. 335+70.14

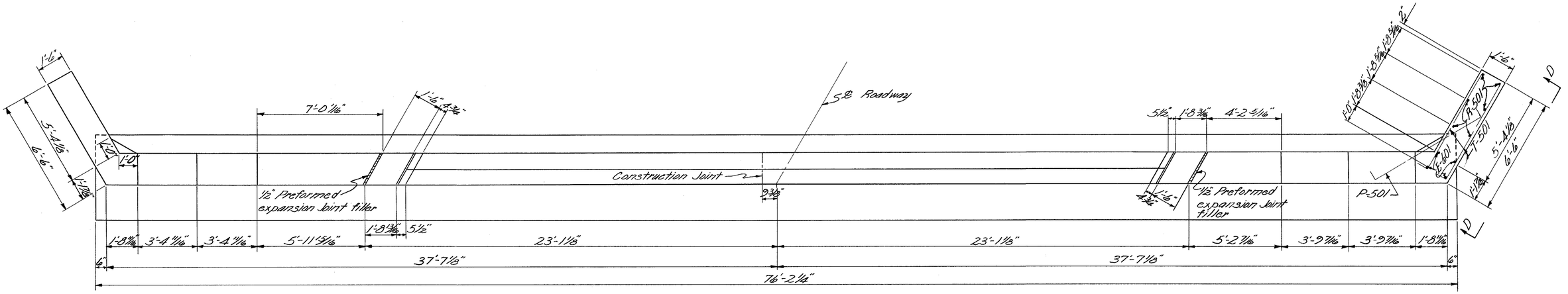
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
LLF	LLF	JHF				

EJ Revised As-built 5-6-71

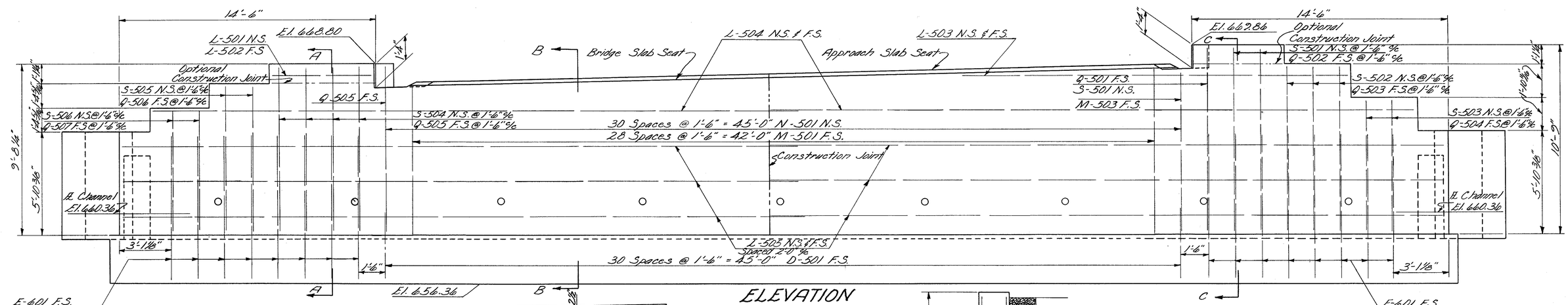
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

52/58

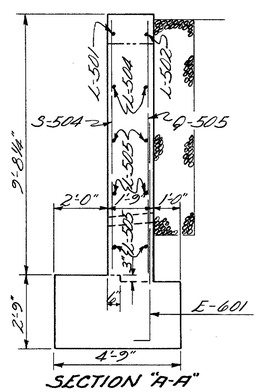
LAW-243-6.09



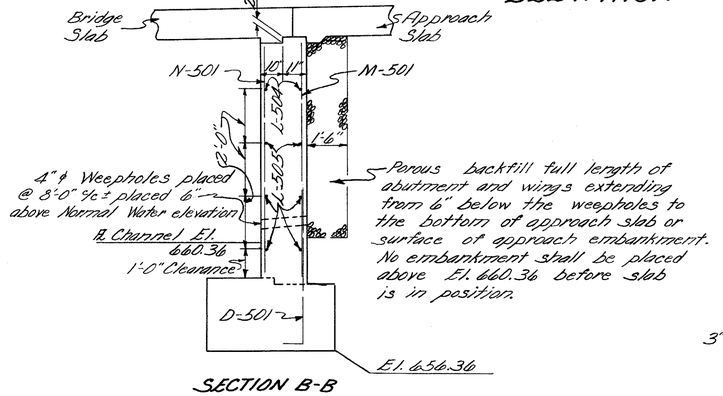
PLAN



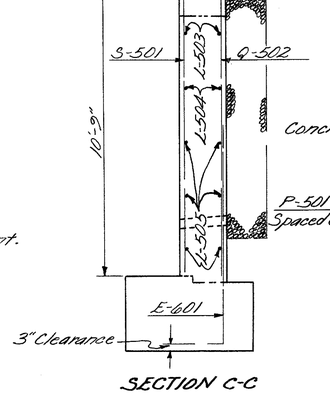
ELEVATION



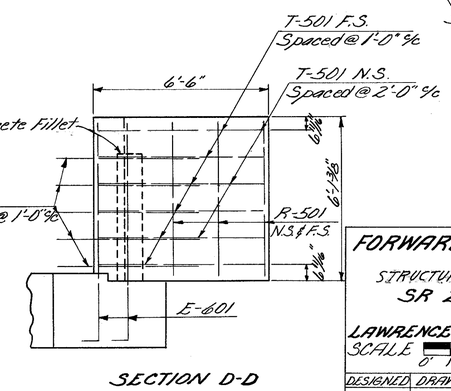
SECTION "A-A"



SECTION B-B



SECTION C-C



SECTION D-D

FORWARD ABUTMENT DETAILS

STRUCTURE No. LAW-243-0635
SR 243 OVER ICE CREEK

LAWRENCE COUNTY STA. 335+42.26 to STA. 335+70.14

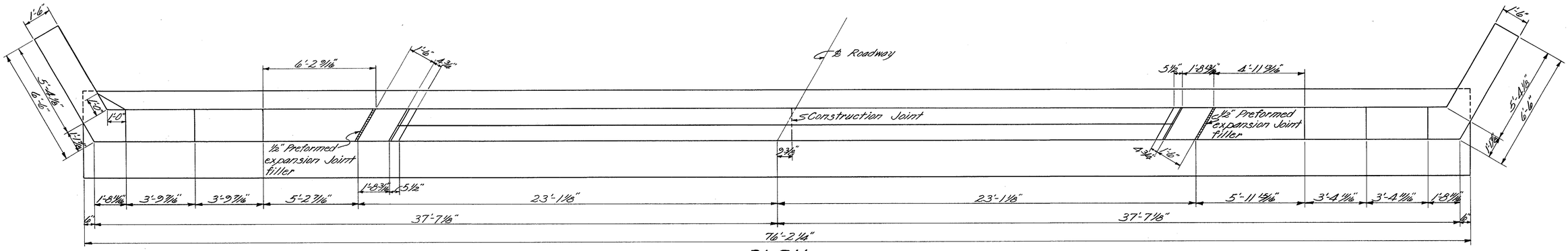
SCALE 0' 1' 2' 3'

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	REVISED
LLF	LLF	JLG			

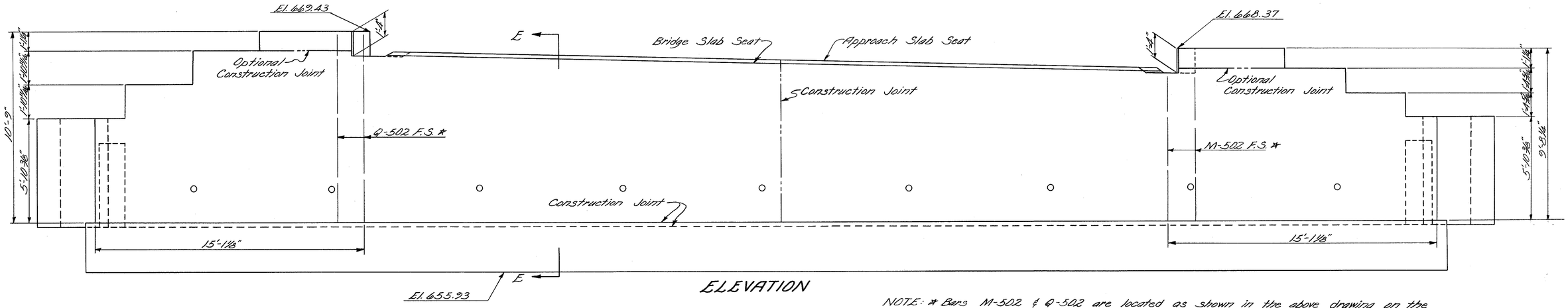
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

53/58

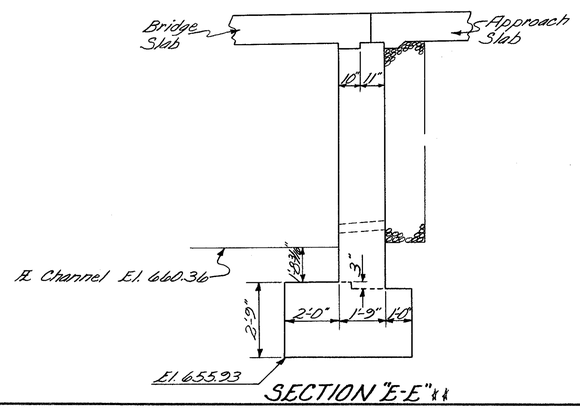
LAW-243-6.09



PLAN



ELEVATION



SECTION "E-E" **

NOTE: * Bars M-502 & Q-502 are located as shown in the above drawing on the Rear Abutment. Bars on the Forward Abutment at this location are shown on the Forward Abutment details. All other steel in the Rear Abutment is the same spacing, location & size as shown on the Forward Abutment details.

** Section "E-E" (This sheet is the same design as Section "B-B" on the Forward Abutment details. The only difference is in Elevations, and the distance from top of footer to the flow line. The Abutment & Footer design is identical.)

REAR ABUTMENT DETAILS

STRUCTURE No. LAW-243-0635
SR 243 Over ICE CREEK

LAWRENCE COUNTY STA. 335+49.26 to STA. 335+70.14

SCALE 0' 1' 2' 3'

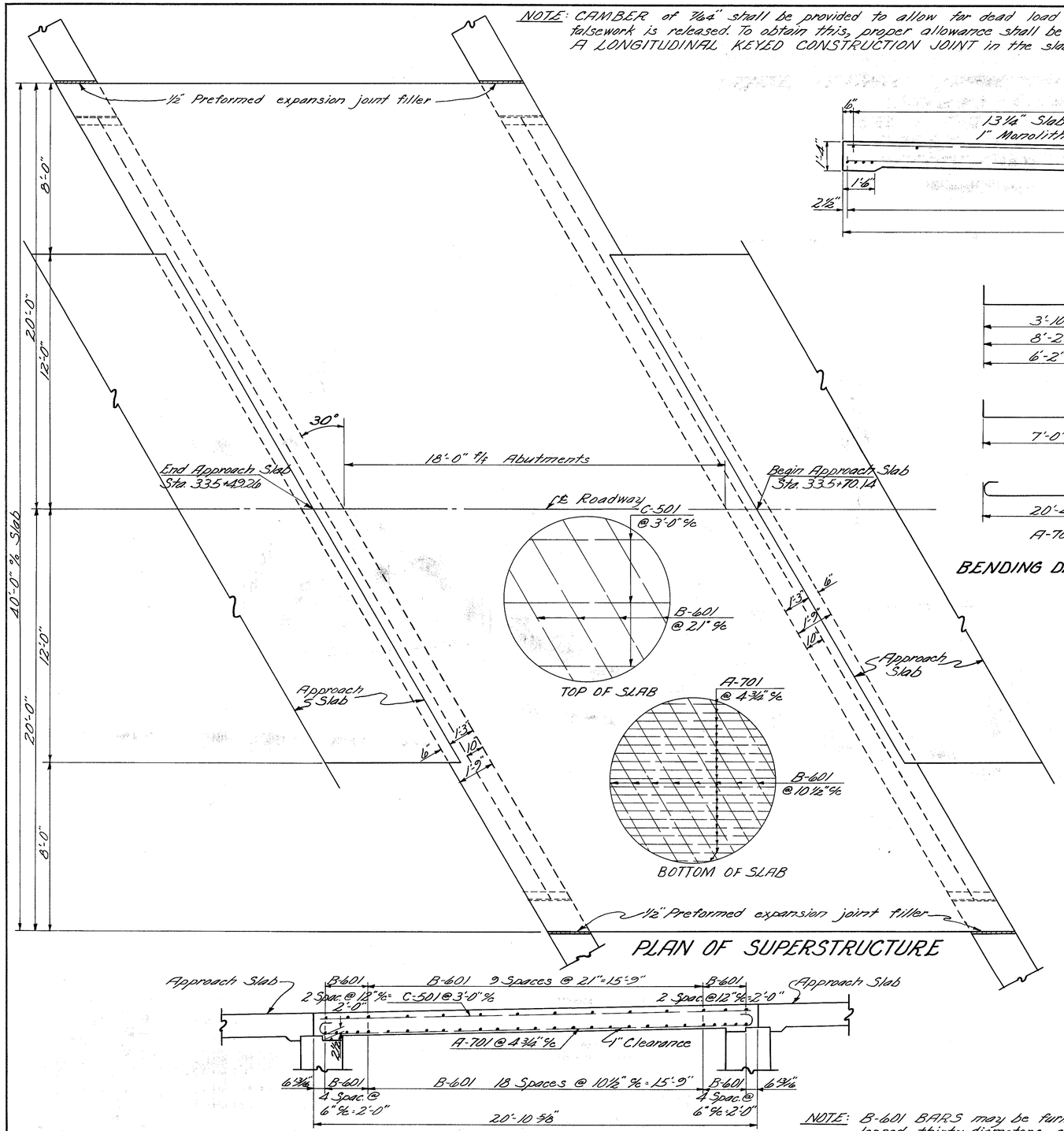
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	REVISED
L.L.F.	L.L.F.	J.L.G.			

NOTE: CAMBER of 7/64" shall be provided to allow for dead load deflection. This is the amount required before the falsework is released. To obtain this, proper allowance shall be made for the deflection of the falsework members. A LONGITUDINAL KEYED CONSTRUCTION JOINT in the slab, preferably at or near ℄ slab, will be permitted to facilitate construction.

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

34/58

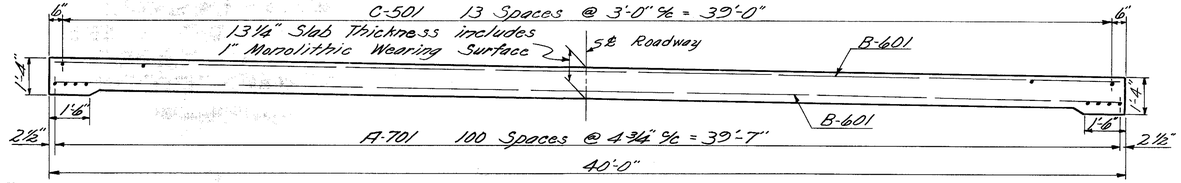
LAW-243-6.09



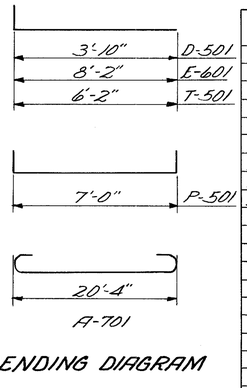
PLAN OF SUPERSTRUCTURE

All transverse bars are B-601, Measure spacing of transverse bars along ℄ Roadway

LONGITUDINAL SECTION ALONG ℄ ROADWAY



TRANSVERSE SECTION



BENDING DIAGRAM

REINFORCING STEEL (ABUTMENTS)

Mark	Size	Shape	Spacing	No. Reqd.	Length	Weight
D-501	3/8"	Bent	1'-6" ℄	62	4'-4"	280
E-601	¾"	Bent	As Shn.	48	8'-10"	637
L-501	5/8"	Str.	As Shn.	2	5'-7"	12
L-502	5/8"		As Shn	2	6'-8"	14
L-503	5/8"		As Shn.	4	21'-10"	91
L-504	5/8"		As Shn.	8	36'-6"	305
L-505	5/8"		2'-0" ℄	24	38'-2"	955
M-501	5/8"		1'-6" ℄	2	8'-5 3/16" to 9'-0 3/4" 7/16" Incr.	272
M-502	5/8"		As Shn.	2	8'-3"	17
M-503	5/8"		As Shn.	1	9'-4"	10
N-501	5/8"	Str.	1'-6" ℄	2	7'-11 3/16" to 9'-0 3/4" 7/16" Incr.	274
P-501	5/8"	Bent	1'-0" ℄	20	8'-0"	167
Q-501	5/8"	Str.	As Shn.	1	9'-4"	10
Q-502	5/8"		As Shn.	6	10'-8"	67
Q-503	5/8"		As Shn.	6	9'-6"	59
Q-504	5/8"		As Shn.	4	7'-8"	32
Q-505	5/8"		As Shn.	8	9'-7"	80
Q-506	5/8"		As Shn.	4	8'-6"	35
Q-507	5/8"		As Shn.	4	7'-1"	30
R-501	5/8"		As Shn.	24	5'-9"	144
S-501	5/8"		As Shn.	6	10'-5"	65
S-502	5/8"		As Shn.	6	9'-3"	58
S-503	5/8"		As Shn.	4	7'-5"	31
S-504	5/8"		As Shn.	8	9'-4"	78
S-505	5/8"		As Shn.	4	8'-3"	34
S-506	5/8"	Str.	As Shn.	4	6'-10"	29
T-501	5/8"	Bent	As Shn.	36	6'-8"	250

Total Abutment Reinforcing Steel = 4,036 lbs.

REINFORCING STEEL (SUPERSTRUCTURE)

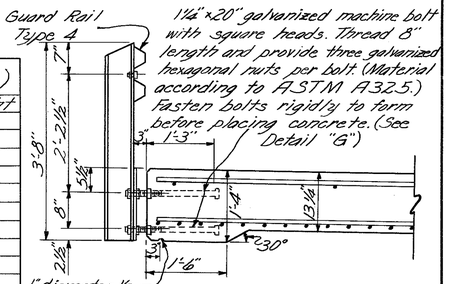
C-501	5/8"	Str.	3'-0" ℄	14	20'-4"	297
B-601	¾"	Str.	As Shn.	41	45'-10"	2823
A-701	7/8"	Bent	4 3/16" ℄	101	22'-0"	4,542

Total Superstructure Reinforcing Steel = 7,662 lbs.

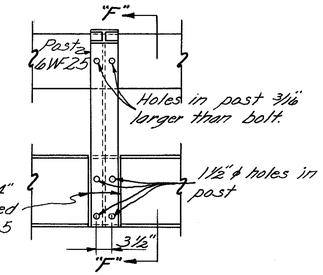
REPLACEMENT BARS

RE-501	5/8	Str.	——	1	6'-1"	——
RE-601	¾"	Str.	——	1	6'-7"	——
RE-701	7/8"	Str.	——	1	7'-0"	——

NOTE: B-601 BARS may be furnished in the length as shown or in pairs of equal length, lapped thirty diameters at the ℄ roadway; or they may be furnished in pairs of different length in order to place the lap beyond a longitudinal construction joint at the ℄ roadway, at the option of the Contractor. Determination of the pay quantity will be according to the number & length of bars as shown hereon.

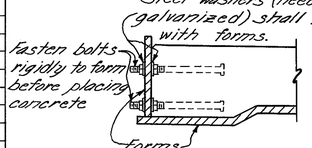


SECTION "F-F"
SHOWING EDGE BEAM & GUARD RAIL
No Scale



RAILING ELEVATION
No Scale

Steel washers (need not be galvanized) shall be removed with forms.



DETAIL "G"
No Scale

SUPERSTRUCTURE DETAILS

STRUCTURE № LAW-243-0635
S.R. 243 over ICE CREEK

LAWRENCE COUNTY STA. 335+49.26 to STA. 335+70.14

SCALE 0 1' 2' 3'

DESIGNED	DRAWN	TRACED	CHECKED	REVIWED	REVISED
LLF	LLF	JLG			

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

55/58

1/4

Recorded in Lawrence County Record of Plats; Book _____ Page _____
Date _____

LOCATION PLAN

STATE of OHIO DEPARTMENT of HIGHWAYS
LAW 243-6.09
SEC 9, T-2, R-17
PERRY TWP.
LAWRENCE COUNTY

Scale 1"=100'

R/W CURVE
Δ-3°45' Lt.
Dc-3.74984°
R-1527.953'
T-50.02'
L-100.004'
E 0.818'

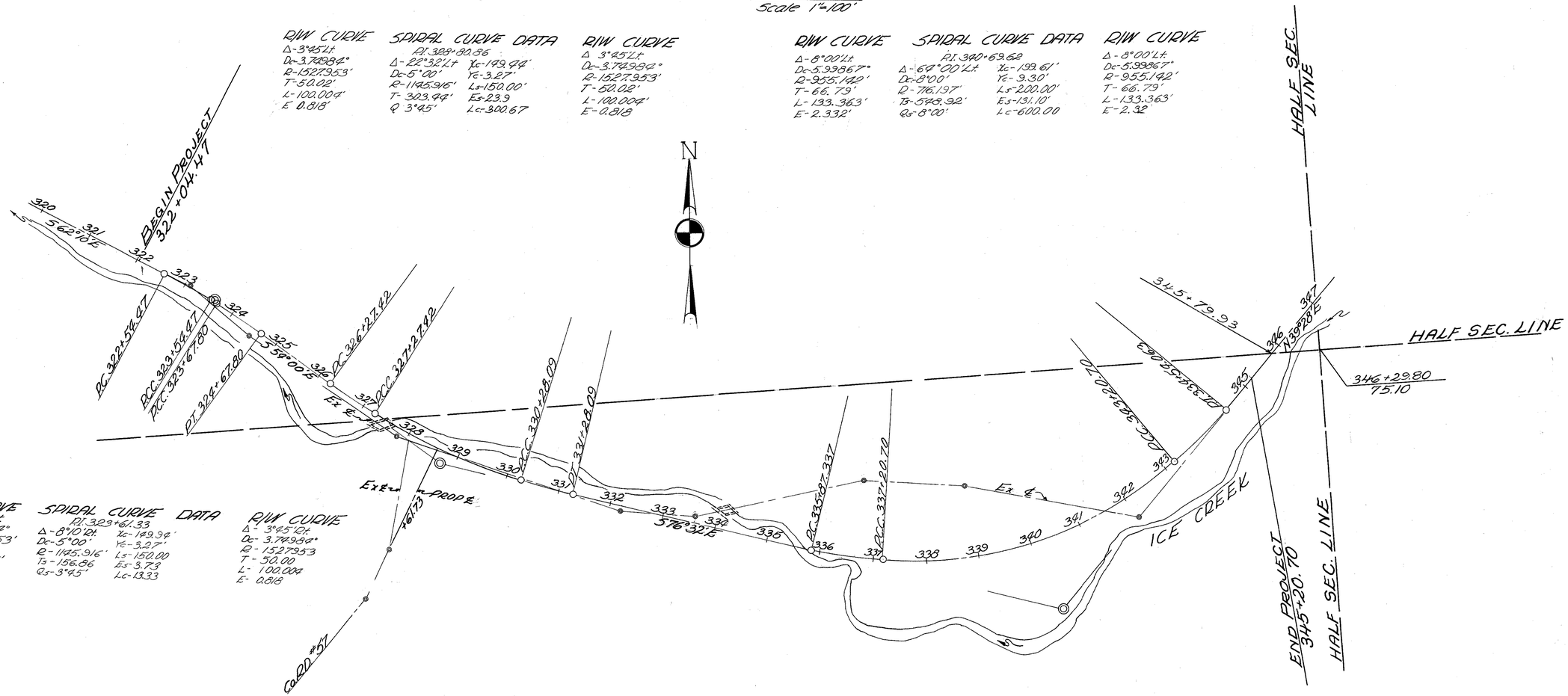
SPIRAL CURVE DATA
PI 328+80.86
Δ-22°32' Lt. Xc-149.99'
Dc-5°00' Yc-3.27'
R-1145.916' Ls-150.00'
T-303.99' Es-23.9
Q 3°45' Lc-300.67

R/W CURVE
Δ 3°45' Lt.
Dc-3.74984°
R-1527.953'
T-50.02'
L-100.004'
E-0.818

R/W CURVE
Δ-8°00' Lt.
Dc-5.99867°
R-955.142'
T-66.79'
L-133.363'
E-2.332'

SPIRAL CURVE DATA
PI 340+63.62
Δ-69°00' Lt. Xc-139.61'
Dc-8°00' Yc-9.30'
R-716.197' Ls-200.00'
Ts-548.92' Es-131.10'
Qs-8°00' Lc-600.00

R/W CURVE
Δ-8°00' Lt.
Dc-5.99867°
R-955.142'
T-66.79'
L-133.363'
E-2.32'



R/W CURVE
Δ-3°45' Rt.
Dc-3.74984°
R-1527.953'
T-50.02'
L-100.004'
E-0.818

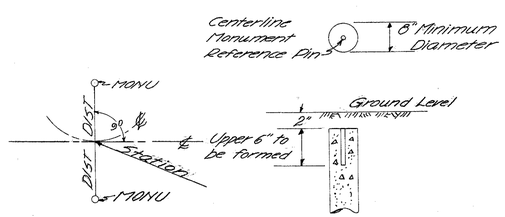
SPIRAL CURVE DATA
PI 323+61.33
Δ-8°10 Rt. Xc-149.94'
Dc-5°00' Yc-3.27'
R-1145.916' Ls-150.00
Ts-156.86 Es-3.73
Qs-3°45' Lc-13.33

R/W CURVE
Δ-3°45' Lt.
Dc-3.74984°
R-1527.953
T-50.00
L-100.004
E-0.818

REFERENCE MONUMENTS TO BE SET AFTER CONSTRUCTION

STATION	Dist. Ft. ℄ LT	Dist. Ft. ℄ RT	STATION	Dist. Ft. ℄ LT	Dist. Ft. ℄ RT
321+00	19	19	337+20.70	19	19
322+54.47			343+20.70		
323+54.47			334+54.063		
323+67.8			346+00		
324+67.8					
326+27.42					
327+27.42					
330+28.09					
331+28.09					
335+87.337					

Detail for Setting Monuments



I Hereby Certify That This Plat is a True Delineation of a Survey Made By The Ohio Department of Highways

DATE Aug 28, 1967

Thomas W. Murphy PS 2220

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

56/58

R/W PLAN
LAW 223-6.09
LAWRENCE COUNTY

2/4

10 OWNERS
17 PARCELS
1 STRUCTURE

SUMMARY of ADDITIONAL R/W REQUIRED

PARCEL N°	OWNER	FUND	Deed Record Book	Deed Record Page	Deed Area	To Be Acquired Net Take	Pro. in Take	Gross Take	Total Pro.	Bldg	Residue Lt.	Residue Rt.	Sheet N°	REMARKS
1	Derry Brammer & Freda Brammer		258,261	562,907	25.11 Ac.	0.15 Ac.	0.23 Ac.	0.38 Ac.					3	
1x						0.04 Ac.		0.04 Ac.					3	
2	William Swartzwelder & Olevia Swartzwelder		157	186	30 Ac.	0.30 Ac.	0.18 Ac.	0.48 Ac.					3	
3	Delbert M. Wheeler		181	392	53.90 Ac.	0.99 Ac.	0.39 Ac.	0.78 Ac.	0.39 Ac.			52.62 Ac.	3	
4	Lawrence J. Porter & Dorothy A. Porter		272	595	5 Ac.	0.56 Ac.	0.41 Ac.	0.97 Ac.	0.41 Ac.	Yes	4.03 Ac.		3	
4x						0.03 Ac.		0.03 Ac.					3	
4T						0.02 Ac.		0.02 Ac.					3	To Remove 1 Sty Blk Bldg
5	Darthea Dean		169, 203	2, 191	1 Ac.	0.21 Ac.	0.28 Ac.	0.49 Ac.					3	
6	Ralph E. Dean		225	463	0.50 Ac.	0.04 Ac.	0.06 Ac.	0.10 Ac.	0.06 Ac.			0.40 Ac.	3	
7	John W. Jordan & Marian Jordan		238	360	1.93 Ac.	0.09 Ac.	0.19 Ac.	0.28 Ac.	0.19 Ac.			1.15 Ac.	3	
8	Harry Swartzwelder		163	992	89 Ac.	3.63 Ac.	1.72 Ac.	5.35 Ac.	1.72 Ac.				3, 4	
8x						0.04 Ac.		0.04 Ac.					3	
8Y						0.48 Ac.		0.48 Ac.					4	
8T						0.05 Ac.		0.05 Ac.					4	To Const. Dr. & Dress Slopes
9	Derry Brammer & Freda Brammer		258	442	44.5 Ac.	0.03 Ac.	0.04 Ac.	0.07 Ac.	0.04 Ac.				4	
10	Ralph Broughton & Jane Broughton	STATE	302	552	0.63 Ac.	0.17 Ac.	0.24 Ac.	0.41 Ac.					4	
11	Billy Ray Jordan		277	152	1.50 Ac.	0.10 Ac.	0.00 Ac.	0.10 Ac.				1.90 Ac.	4	

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

57/58

R/W PLAN
LAW 243-6.09
LAWRENCE COUNTY

3/4

UTILITIES
P OHIO POWER Co.
T GENERAL TELEPHONE Co.
Gas Ohio Fuel Gas Co.

PERRY TWP.
SEC-9 T2 R17

Ex. CURVE DATA
Δ - 4°39'05" Lt.
Dc - 4.32427°
R - 1324.275'
T - 53.78'
L - 107.507'
E - 1.09'

R/W CURVE DATA	
Δ	3°45'
Dc	3.74984°
R	1527.953'
T	50.02'
L	100.004'
E	0.818'

SPIRAL CURVE DATA
PI STA. 328+80.86

Δ	22°32' LT.	Xc	149.44'
Dc.	5°00'	Yc	3.27'
R	1145.916'	Ls	150.00'
Ts	303.44'	Es	23.9'
Qs	3°45'	Lc	300.67'

R/W CURVE DATA	
Δ	3°45'
Dc	3.74984°
R	1527.953'
T	50.02'
L	100.004'
E	0.818'

Ex. CURVE DATA
Δ - 16°14'19" Lt.
Dc - 29.0068°
R - 197.525'
T - 28.179'
L - 55.982'
E - 2.00'

Ex. CURVE DATA

Δ	- 13°25'48" Lt.	Δ	- 16°
Dc	- 7.87173°	Dc	- 15.3417°
R	- 727.868'	R	- 373.465'
T	- 85.698'	T	- 54.806'
L	- 170.610'	L	- 108.835'
E	- 5'	E	- 4'

Ex. CURVE DATA
Δ 11°33'50' Rt.
Dc 6.709006°
R 854.007'
T 86.475'
L 172.362'
E 4.391'

R/W CURVE DATA	
Δ	3°45' RT
Dc	3.74984°
R	1527.953'
T	50.02'
L	100.004'
E	0.818

SPIRAL CURVE DATA
P.I. STA. 323+61.33

Δ	8°10' RT	Xc	149.94'
Dc	5°00'	Yc	3.27'
R	1145.916'	Ls	150.00'
Ts	156.86'	Es	3.73
Qs	3°45'	Lc	13.33

R/W CURVE DATA	
Δ	3°45' RT.
Dc.	3.74984°
R	1527.953'
T	50.02'
L	100.004'
E	0.818'

Ex. Co. Rd. CURVE DATA

Δ	- 14°57' Rt.	Δ	14°20'
Dc	- 16.3696°	Dc	15.0384°
R	- 350.013'	R	380.996'
T	- 45.924'	T	47.906'
L	- 91.327'	L	95.312'
E	- 3.00'	E	300'

Completion Date 11-16-67

Revised	Revision Description	BY

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

58/58

R/W PLAN
LAW 243-6.09
LAWRENCE COUNTY

4/4

PERRY TWP.
SEC-9 T-2 R-17

R/W CURVE DATA

Δ	8°00'
Dc	5.99867°
R	955.142'
T	66.79'
L	133.363'
E	2.332'

SPIRAL CURVE DATA

P.I. STA. 340+69.62

Δ	64°00' Lt.	Xc	199.61'
Dc	8°00'	Yc	9.30'
R	716.197'	Ls	200.00'
Ts	548.92'	Es	131.10'
Q	8°00'	Lc	600.00'

R/W CURVE DATA

Δ	8°00'
Dc	5.99867°
R	955.142'
T	66.79'
L	133.363'
E	2.332'

Ex. CURVE DATA

Δ	60°10'55" Lt.
Dc	20.7546°
R	276.063'
T	159.969'
L	289.969'
E	93.00'

8 HARRY SWARTZWELDER

9 PERRY & FREDA BRAMMER

10 RALPH & JANE BROUGHTON

11 BILLY RAY JORDAN

8 HARRY SWARTZWELDER

8T

8Y

S71°52'16"E 283.83

335+00 110.17

335+88.98 151.79

N76°22'41"E

N76°32'48"E 97.96

Pt. 335+87.237

Pt. 335+20 60

N70°28'41"E 125.52'

N14°20'13"W 38.38'

Pt. 336+75 100

N69°39'22"W 121.92'

337+75 110

336+50 75

336 Pt.

337

Pt. 337+20.70

Ex. R/W

Ex. ℄

Ex. R/W

C.L. 339+03.36 "E"

C.L. 239.958'

338+00 55

N78°08'30"E 178.39

Work Limits

339+95 65

339

340

341

342

343

344

345

346

347

348

336.16'

336+50 75

336+60 75

337+75 50

339+50 60

339+60 Work Limits PROP R/W

S67°38'31"W 115.41'

S1°01'32"W 26

S82°21'05"E 342+52.45 R=2716.797

N52°57'03"E 995.23

Pt. 342+50

342+00 98.162

341+50 55

343+00 45.80

343+50 50

CREEK

ICE

Dug Well

Fr. Shed

Pt. 343+50

Brick Dwl.

Brick Garage

Pt. 344+00

Pt. 344+50

Pt. 345+00

Pt. 345+20.70

Pt. 345+79.93

HALF SEC LINE N6°03'E

N6°03'59"W 346+30.24

ST. STA. 345+20.70

Pt. 345+37.46

Frame Chicken Hse.

1½" Gal. Pipe

Brick Cellar Hse.

2 Sty. Fr. Des.

1 Sty. Blk. Bldg.

1 Pin

Dwg

Gas

N39°26'E 159.85

PROP R/W

S89°07'E

79.62

76.32

N39°26'E

195.07

Ex. R/W

197.01

N39°26'E

1 Pin

346+29.80 15.70

S53°47'32"W 134.80

346+65.50 128.87

346+79.93 S36°07'E

S50°32'E 85.75

N29°29'20"E

347+75 60.26

347+75 45

1 Sty. Fr Res

S39°47'32"E 347.79

S17°29'21"W 177.55

S39°09'26"W 155.23

S5°43'19"W 213.53

395+00 45

346+50 100

346+50 75

END WORK

END PROP R/W 346+50.70

HALF SEC LINE

HALF SEC LINE

HALF SEC LINE

Ex. CURVE DATA

Δ	15°41'07" Rt.	Δ	5°25' Rt.
Dc	13.5248°	Dc	2.1089°
R	423.639'	R	2716.797'
T	58.351'	T	18.577'
L	115.974'	L	26.898'
E	2'	E	3.038'

Completion Date: 11-16-67		
Revised	Revision Description	By
2/28/68	Changed ℞ Location Par's 9 & 10	EDB
3/12/68	Changed ℞ Location Par's 9 & 10	EDB

TE-95
400-9-64

GENERAL INFORMATION

INTRODUCTION

THE PROJECT CONSISTS OF THE LINE AND GRADE IMPROVEMENT OF 2400 FEET OF SR 243 EAST OF COAL GROVE, BEGINNING ON SR 243, 600 FEET WEST OF COUNTY ROAD 57, AND EXTENDING EASTWARD.

PROPOSED GRADE INDICATES MAXIMUM 12-FOOT CUTS AND 8-FOOT FILLS, AND MAXIMUM 11-FOOT CHANNEL EXCAVATION FOR LITTLE ICE CREEK.

GEOLOGY AND OBSERVATIONS OF THE PROJECT

THE ALIGNMENT TRAVERSES THE VALLEY FLOOR OF LITTLE ICE CREEK, ON THE DISSECTED ALLEGHENY PLATEAU, IN AN AREA WHERE SHALLOW TO MODERATELY DEEP ALLUVIUM AND RESIDUAL SOILS (ON THE VALLEY WALLS) OVERLIE SHALES, INDURATED CLAYS, AND SANDSTONES, OF THE ALLEGHENY FORMATION, PENNSYLVANIAN AGE. ROCK EXPOSURES WERE NOTED AND MEASURED IN THE VALLEY WALL AND STREAM BOTTOM.

EXPLORATION

BORINGS WERE MADE BY MEANS OF TRUCK-MOUNTED MECHANICAL SOIL AUGER ON JUNE 21 AND 22, 1967.

INVESTIGATIONAL FINDINGS

MATERIALS OCCURRING IMMEDIATELY BELOW PROPOSED GRADE CONSIST OF SILT CLAYS (A-6a), SANDY SILTS (A-4a), AND SANDY GRAVELS (A-2-4 AND A-2-6), HAVING MOISTURE CONTENTS BELOW THE PLASTIC RANGE, ALTHOUGH A WET SANDY SILT WAS ENCOUNTERED AT STATION 332+00.

SHALE BEDROCK IS ANTICIPATED IN THE DITCHES, BACKSLOPES AND PARTS OF THE CHANNEL EXCAVATIONS IN AREAS DEFINED BY THE FOLLOWING STATIONS:

329+50 TO 335+70 - SHALE AND SANDSTONE AT FLOWLINE AND LOWER PORTIONS OF THE LEFT BACKSLOPE; SHALE IN THE MID AND UPPER PORTIONS OF THE BACKSLOPE.

342+00 TO 343+30 - SHALE IN THE LEFT DITCH AND BACKSLOPE.

LEGEND FOR PROJECT AVERAGE RESULTS OF TESTS— 36 SAMPLES TESTED

DESCRIPTION	H.R.B. CLASS	OHIO CLASS	% AGG.	% C. SAND	% F. SAND	% SILT	% CLAY	LIQUID LIMIT	PLASTICITY INDEX	WATER CONTENT	SAMPLES TESTED
GRAVEL WITH SAND	A-1-b(0)	A-1-b	52	16	16	7	9	24	6	13	1
STONE FRAGMENTS WITH SAND AND SILT	A-2-4(0)	A-2-4	54	10	13	12	11	28	8	12	2
STONE FRAGMENTS WITH SAND, SILT, AND CLAY	A-2-6(1)	A-2-6	47	12	11	11	19	37	15	13	5
SANDY SILT	A-4a(3)	A-4a	17	11	20	27	25	30	8	17	8
SILT AND CLAY	A-6a(7)	A-6a	15	9	14	30	32	35	13	15	14
SILTY CLAY	A-6b(5)	A-6b	30	10	13	17	30	40	17	15	1
CLAY	A-7-6(11)	A-7-6	0	1	6	38	55	43	15	21	2
INDURATED CLAY			VISUAL CLASSIFICATION								—
SHALE			VISUAL CLASSIFICATION								3
SANDSTONE			VISUAL CLASSIFICATION								—

SOD AND/OR TOPSOIL=X'=APPROXIMATE DEPTH.

● WATER CONTENT NEARLY EQUAL TO OR GREATER THAN LIQUID LIMIT.

AUGER BORING-PLAN VIEW.

W FREE WATER.

AUGER BORING PLOTTED TO VERTICAL SCALE ONLY.

B INDICATES BROKEN ROCK INTERVAL.

NOTE: FIGURES BESIDE BORINGS INDICATE WATER CONTENT IN PERCENT. E.G. 15

SUMMARY OF SOIL TEST DATA

*DENOTES SAMPLE TAKEN AT OR NEAR GRADE.

STATION & OFFSET	DEPTH FROM	DEPTH TO	% AGG.	% C.S.	% F.S.	% SILT	% CLAY	L.L.	P.I.	% W.C.	SHTL CLASS.
322+25 20'Lt	0.2	2.0	13	23	18	21	25	37	14	12	A-6a*
	2.0	5.5	28	17	16	14	25	38	10	13	A-4a*
	5.5	10.0	52	16	16	7	9	24	6	13	A-1-b
324+30 CL	0.2	1.0	21	6	14	26	31	37	14	19	A-6a*
	1.0	7.0	30	10	15	17	30	40	17	15	A-6b*
	7.0	12.0	70	7	9	6	8	29	8	17	A-2-4
	12.0	15.0	28	12	21	22	17	23	4	15	A-4a
328+50 85'Lt	0.5	2.5	0	6	10	36	48	37	14	15	A-6a
	2.5	9.0	21	17	20	15	27	36	14	16	A-6a
	9.0	10.0	(62	4	5	17	12	28	6	5)	
			GRAY BROKEN SHALE								VISUAL
328+50 20'Rt	0.3	2.0	37	14	18	17	14	26	7	6	A-2-4*
	2.0	5.0	47	12	12	12	17	35	15	10	A-2-6
	5.0	8.0	41	16	14	10	19	37	16	15	A-2-6
	8.0	10.0	17	0	3	44	36	33	13	20	A-6a
	10.0	12.0	6	13	24	29	28	30	8	19	A-4a
	12.0	14.0	0	1	8	45	46	35	12	14	A-6a
	14.0	18.0	20	3	5	31	41	34	13	12	A-6a*
332+00 12'Lt	0.5	3.0	0	6	22	41	31	28	8	27	A-4a*
	3.0	5.5	26	8	15	23	28	32	9	11	A-4a
335+00 CL	0.5	3.0	14	6	25	38	17	34	11	15	A-6a
	3.0	7.0	50	11	11	9	19	34	11	11	A-2-6
	7.0	8.0	8	16	30	22	24	27	8	25	A-4a
	8.0	12.0	10	13	22	28	27	26	14	5	A-6a
335+50 60'Lt	0.5	3.0	5	4	9	42	40	36	11	19	A-6a
	3.0	6.0	14	18	25	18	25	32	11	22	A-6a
	6.0	8.0	19	19	17	24	21	35	11	14	A-6a
	8.0	9.0	43	3	10	25	19	32	10	5	A-4a
339+00 CL	0.5	2.0	0	2	5	32	61	44	15	20	A-7-6*
	2.0	7.0	0	6	7	42	50	42	15	22	A-7-6
	7.0	9.5	47	10	11	13	19	40	16	15	A-2-6
342+30 20'Lt	0.0	2.0	16	6	6	33	39	38	14	19	A-6a*
	2.0	5.0	41	8	13	15	23	32	11	15	A-6a*
	5.0	5.5	(56	11	7	13	13	35	11	9)	
			GRAY BROKEN SHALE								VISUAL
346+00 15'Rt	0.5	2.5	0	8	25	38	31	31	9	19	A-4a*
	2.5	5.5	51	11	9	9	20	36	18	15	A-2-6*
	5.5	6.0	(45	5	6	24	20	-	-	10)	
			GRAY BROKEN SHALE								VISUAL

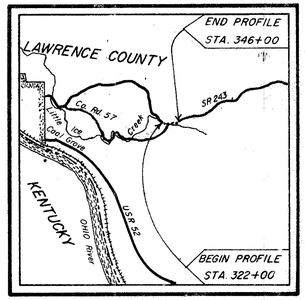
SOIL PROFILE
LAWRENCE COUNTY
LAW-243-6.09

1/2

1/2

OHIO STATE HIGHWAY TESTING LABORATORY
1620 W. BROAD ST. COLUMBUS 23, OHIO

NOTE: INFORMATION SHOWN BY THIS SUBGRADE PROFILE WAS OBTAINED SOLELY FOR USE IN ESTABLISHING DESIGN CONTROLS FOR THE PROJECT. THE STATE OF OHIO DOES NOT GUARANTEE THE ACCURACY OF THIS DATA AND IT IS NOT TO BE CONSTRUED AS A PART OF THE PLANS GOVERNING CONSTRUCTION OF THE PROJECT.



LOCATION MAP

Recon-J.F.S-5/18/67
Drilling-J.A.G-6/21,22,/67
Drafting-D.E.M.-G.P.W.-

TE - 127
1000-12-66

SOIL PROFILE

LAWRENCE COUNTY

LAW-243-6.09

OHIO STATE HIGHWAY TESTING LABORATORY
1620 W. BROAD ST. COLUMBUS, OHIO 43223

2/2

2/2

LAW-243-6.09