FED. RD. DIST. NO.	STATE	PROJECT	FISCAL YEAR
2	OHIO		1946

1
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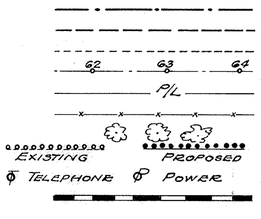
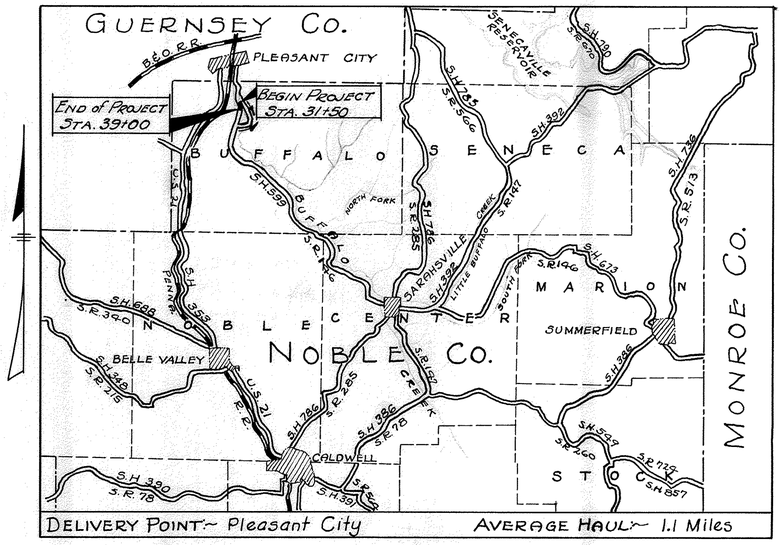
NOBLE COUNTY
S.H 599 SEC B(pt.)

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
PLEASANT CITY ~ SARAHSVILLE ROAD
S.H. NO. 599 SEC. B (PT.)
NOBLE COUNTY
BUFFALO TOWNSHIP

CONVENTIONAL SIGNS

COUNTY LINE
TOWNSHIP LINE
SECTION LINE
CENTER LINE
PROPERTY LINE
FENCE LINE
TREES
GUARD RAIL
POLE LINES
RAILROADS





INDEX OF SHEETS

LINE DATA

BEGINNING OF PROJECT	STATION 31+50
END OF PROJECT	STATION 39+00
GROSS LENGTH OF PROJECT	750 Lin. Ft.
NO ADDITIONS OR DEDUCTIONS	
NET LENGTH OF PROJECT	750 Lin Ft OR 0.142 MILES

LOCATION PLAN
SCALE 1" = 2 MI.

PORTION TO BE IMPROVED
STATE HIGHWAYS
DETOUR

SCALES

PLAN	1" = 100'
PROFILE HORIZONTAL	1" = 100'
PROFILE VERTICAL	1" = 10'
CROSS SECTIONS	1" = 5'

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF HIGHWAYS, INCLUDING CHANGES AND SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE PRESENT DETOUR ESTABLISHED WHEN BRIDGE NO. NO-146-07 FAILED, OR EQUIVALENT, WILL BE CONTINUED UNTIL NEW BRIDGE AND APPROACH PAVEMENT ARE READY FOR TRAFFIC.

THE RIGHT-OF-WAY FOR THIS IMPROVEMENT WILL BE PROVIDED BY THE STATE OF OHIO

Approved:~ C.J. Kunisky P.E. 701
Date:~ 9-25-46 ASSISTANT TO THE CHIEF ENGINEER

Approved:~
Date:~ CHIEF ENGINEER, BUREAU OF MAINTENANCE

Approved:~ Guy H. Elbin
Date:~ 10-1-46 CHIEF ENGINEER, BUREAU OF BRIDGES & R.R. CROSSINGS

Approved:~ Charles Erickson
Date:~ 10-1-46 CHIEF ENGINEER, BUREAU OF LOCATION & DESIGN

Approved: Edwin W. Ellis
Date:~ 10-1-46 FIRST ASSISTANT DIRECTOR & CHIEF ENGINEER

Approved:~ Perry I. Fox
Date:~ 10-1-46 DIRECTOR OF HIGHWAYS

STANDARD DRAWINGS

G-7.07	6-1-42	I-15 NO.7	3-15-45
I-15 NO.1	11-1-41	I-15 NO.9	10-1-45
I-15 NO.2	4-1-41		
I-15 NO.4	11-1-41		
I-15 NO.5	11-1-41		
I-15 NO.6	11-1-41		

SUPPLEMENTAL SPECIFICATIONS

E-305	Rev. 5-1-41	M-109.8	7-26-43
M-109.1	Rev. 3-14-44		
M-109.2	Rev. 3-14-44		
M-109.6(a)	Rev. 3-14-44		
M-109.6(b)	Rev. 3-14-44		
M-109.7(a)	Rev. 3-14-44		
M-109.7(b)	Rev. 3-14-44		

FILE NO.	NOBLE COUNTY SH 599 SEC. B(pt)
	DATE OF LETTING
	CONTRACT NO.

FED. RD. DIST. NO.	STATE	PROJECT	FISCAL YEAR
2	OHIO		1946

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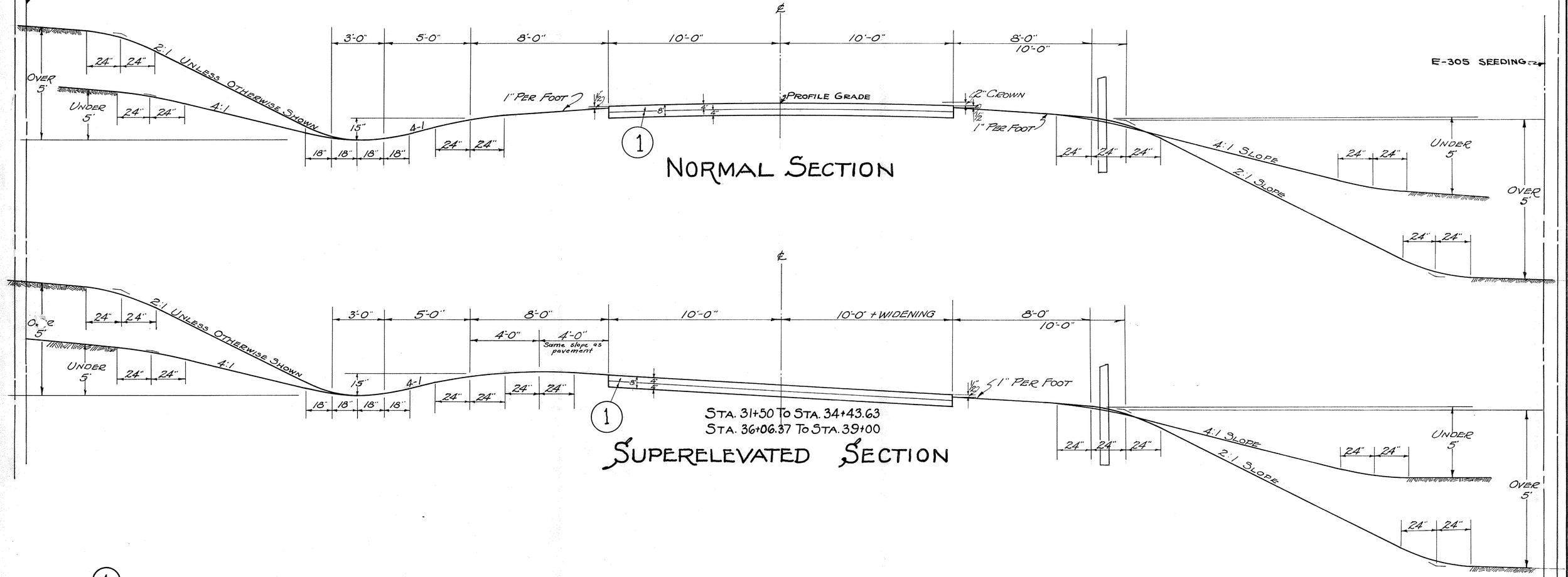
NOBLE COUNTY
S.H 599 SEC "B" (PT.)

TYPICAL SECTION

TYPE ~ I-17



NORMAL SECTION

STA. 31+50 TO STA. 34+43.63
STA. 36+06.37 TO STA. 39+00

SUPERELEVATED SECTION

(1) ITEM I-17:- SIDE APPROACHES, MAIL BOX TURNOUTS AND BERM MATERIAL USED AS SURFACE COURSE PLACED IN TWO 4" COMPACTED COURSES

APPROVED: C.S. Knicely
C.S. KNICELY - ASST. TO CHIEF ENGINEER
Date: 2-9-46

FED. RD. DIVISION	STATE	PROJECT	FISCAL YEAR
2	OHIO		1976

3
12

NOBLE COUNTY
S.H. 599 Sec. "B" (pt.)

NOTES

CONSTRUCTION

All ELEVATIONS are referred to U.S.G.S. Datum.

E-305 SEEDING AND PROTECTING ROADWAY AREAS: - Quantities for Seeding Item E-305 are calculated for the soil areas between lines ten feet (10') outside the work limits as shown on the cross sections or to the Right-of-Way line if such line is less than ten feet from the work limits. All areas outside these limits where the vegetative growth has been injuriously disturbed or destroyed by contractor shall be restored and seeded in accordance with the provisions of Item E-305 by the contractor at his own expense.

Chewings Fescue or Meadow Fescue shall be substituted for Kentucky Blue grass in the seed mixture.

TRAFFIC

WHERE DETOUR OVERLAPS PROJECT, Station 31+50 to Station 33+80 approximately, traffic will be maintained by the contractor by constructing, surfacing, and maintaining temporary traffic lanes with I-17, applied as the Engineer directs. Calcium Chloride will be applied as a dust preventative. Generally surfacing on temporary traffic lanes will be 16 feet wide; if necessary to construct a single lane a guard or signal-man will be furnished by the contractor while such one lane is in use. Temporary lanes will be constructed so as to fit in with Approach No. 1-A so far as practicable.

Payment for I-17 for surfacing will be per cu. Yd.; payment for Calcium Chloride will be per ton in place; payment for building and maintaining temporary traffic lanes, including a guard when necessary will be included in lump sum bid for maintaining traffic, including lights, signs, barricades, and watchmen, twenty four hour service.

SUMMARY OF QUANTITIES

FED. RD. DIST. NO.	STATE	PROJECT	FISCAL YEAR
2	OHIO		1946

4
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NOBLE COUNTY
S.H. 599 SEC. "B" (pt.)

1

PRIVATE DRIVES & ROAD APPROACHES

SHEET NO.	I-17 6" THICK CU. YDS.	15" PIPE LIN. FT.	
5	42.2	24	
Total	42.2	24	

2

GUARD RAIL

SHEET NO.	LIN. FT.
5	275
Total	275

3

GUARD RAIL REMOVED & STORED

SHEET NO.	LIN. FT.	
5	96	
Total	96	

5

CHANNEL EXCAVATION

SHEET NO.	CU. YDS.	
5	4654	
Included in Bridge Quantities Sheet No. 10		
2760 Cu.Yds. Channel Excavation to be used in Roadway Embankment.		

6

REMOVAL OF PIPE

SHEET NO.	15" PIPE REMOVED & STORED LIN. FT.	
5	16	
Total	16	

7

EXCAVATION & EMBANKMENT

FROM STATION	TO STATION	EXCAVATION CU. YDS.	EMBANKMENT CU. YDS.	EMBANKMENT +18% CU. YDS.	
31+50	39+00	102	2425	2862	
Total		102	2425	2862	

102 Cu.Yds Roadway Exc. + 2760 Cu.Yds. Channel Exc. (See Table No. 5) = 2862 Cu.Yds.

8

E-305 SEEDING

SHEET NO.	FOR	SQ. YDS.	
6	Roadway	3965	
7	Channel	1463	
Total		5428	

Deduct for Driveways in Seeded Area 266.7 Sq.Yds.
Total Seeding = 5428 - 266.7 = 5161.3 Sq. Yds.

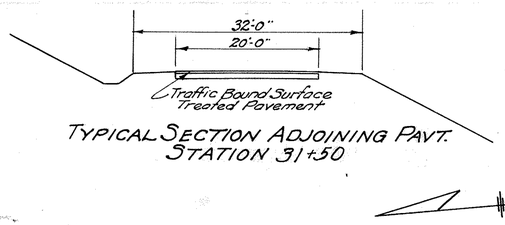
9

PAVEMENT CALCULATION

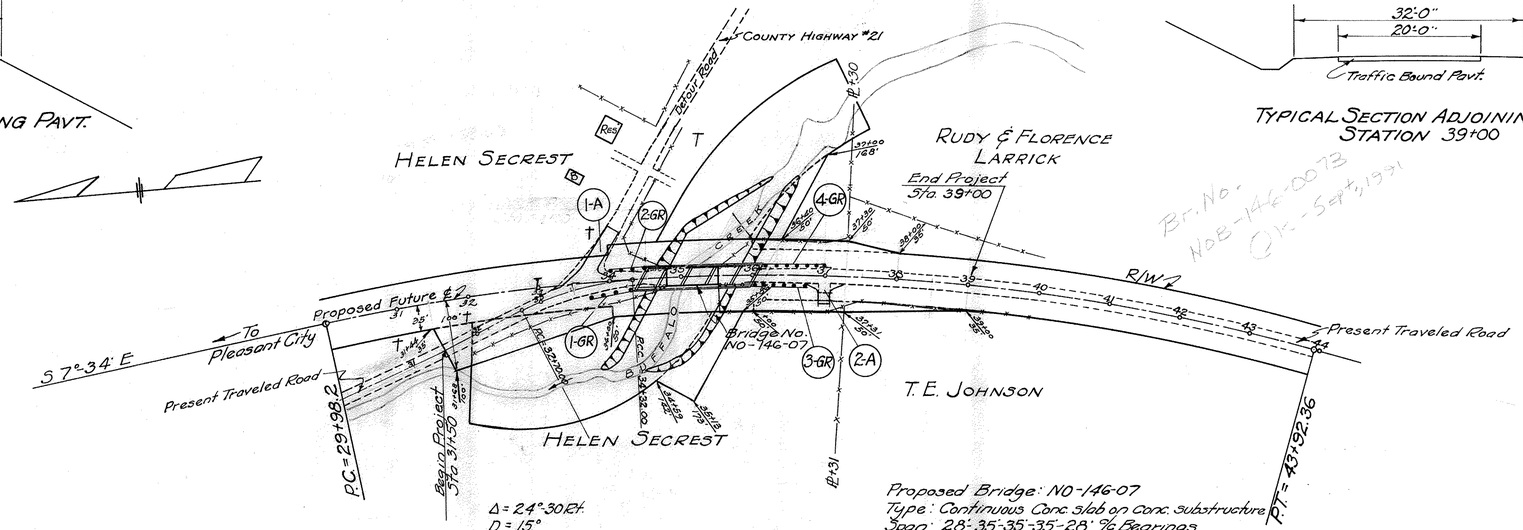
Net Length of Project from Line Data	=	750.00	Lin.Ft.
Deduct for Bridge Sta. 34+43.63 to Sta. 36+06.37	=	162.74	" "
Net Length of Pavement	=	587.26	" "
Area of Pavement = 587.26 x 20 ÷ 9	=	1305.0	Sq. Yds.
Add for Curve Widening from Curve table Sheet No. 8	=	87.3	" "
Total	=	1392.3	" "
1392.3 x 8" thick ÷ 36	=	309.4	Cu.Yds.
Add for Side Drives & Road Approaches from table No. 1 (6" thick)	=	42.2	" "
Total I-17	=	351.6	" "
Add 15% for Compaction (351.6 x 115)	=	404.3	" "

GENERAL SUMMARY

ITEM NO.	QUANTITY	UNIT	DESCRIPTION
E-1	102	Cu.Yds.	Roadway Excavation (Unclassified)
E-11	11	M-Gals.	Water (Estimated)
E-12	16	Lin.Ft.	15" Pipe Removed & Stored
E-305	5162	Sq.Yds.	Seeding & Protecting Roadway areas
I-1	24	Lin.Ft.	15" Pipe for Driveways
I-15	275	Lin.Ft.	Guard Rail (Steel Beam Type) without Bracket I-15.05 A
I-15	96	Lin.Ft.	Guard Rail, Removed & Stored (Plank Type)
M-10	2	Ton	Calcium Chloride Furnished & Applied
I-17	180	Cu.Yds.	Side Approaches, Mail Box Turnouts, and Berm Material used for surfacing temporary traffic lanes.
I-17	405	Cu.Yds.	Side Approaches, Mail Box Turnouts, and Berm Material used as surface Course
	Lump	Lump	Maintaining Traffic Including Lights, Signs, Barricades and watchmen 24 hr. service as per plan.
			STRUCTURES OVER 20' SPAN
			Quantities for Bridge No. NO.-146-07 See Sheet No. 10



TYPICAL SECTION ADJOINING PAVT.
STATION 31+50



TYPICAL SECTION ADJOINING PAVT.
STATION 39+00

DIV. 2 OHIO 1946 — SHEET 5 — 12.

NOBLE COUNTY
S.H 599 B (Pt.)

Δ = 24°-30' Rt.
D = 15°
T = 82.95
L = 162.00

Δ = 27°-53' Rt.
D = 2°-00'
T = 711.18
L = 1394.16

Proposed Bridge: NO-146-07
Type: Continuous Conc. Slab on Conc. substructure
Span: 28'-35'-35'-28' % Bearings
Roadway: 25' 1/2 of curbs plus 2 safety curbs @ 1'-9"
Skew: 30° Lt. forward
Station: 35+25.00

GUARD RAIL REMOVED & STORED

From Station	To Station	Type	Side	Lin. Ft.
34+64	34+80	PP	Rt.	16
34+64	34+80	"	Lt.	16
35+53	35+85	"	Rt.	32
35+53	35+85	"	Lt.	32
Total				96

PRIVATE DRIVES AND ROAD APPROACHES

No.	Station	Side	1-17 6" Thick Cu. Yds.	15" Pipe Lin. Ft.
1-A	33+50	Lt.	33.1	
2-A	37+00	Rt.	9.1	24
Total			42.2	24

For Details see Sheet No. 8

GUARD RAIL

No.	From Station	To Station	Side	Lin. Ft.
1-GR	33+73.5	34+36	Rt.	62.5
2-GR	34+00	34+50	Lt.	50.0
3-GR	36+01	36+76	Rt.	75.0
4-GR	36+14	37+01.5	Lt.	87.5
Total				275.0

B.M. N.W. Cor. of well curb 175' Lt. of Sta. 33+00 El. = 808.09

REMOVAL OF PIPE

Station	Location	Type	Size	For Storage 15" Lin. Ft.
37+00	Rt.	C.M.P.	15"	16
Total				16

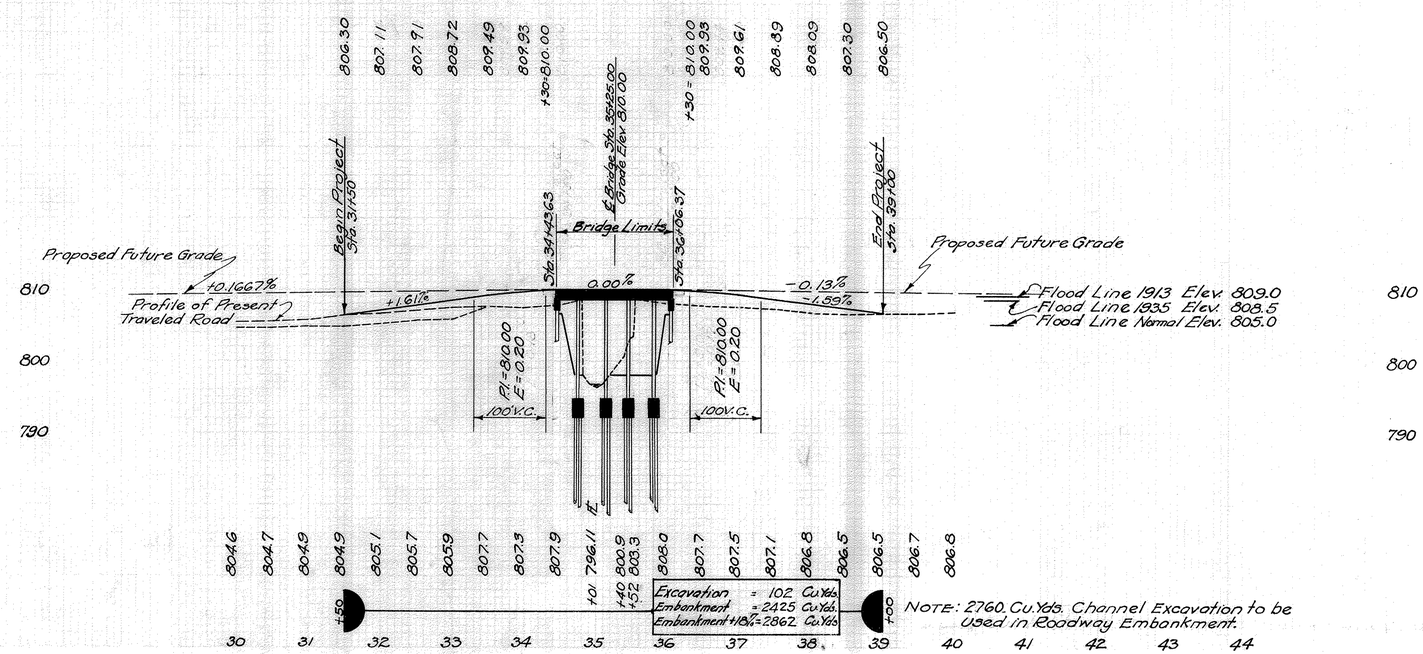
CHANNEL EXCAVATION

Sheet No.	Cu. Yds.
7	4654
Total	4654

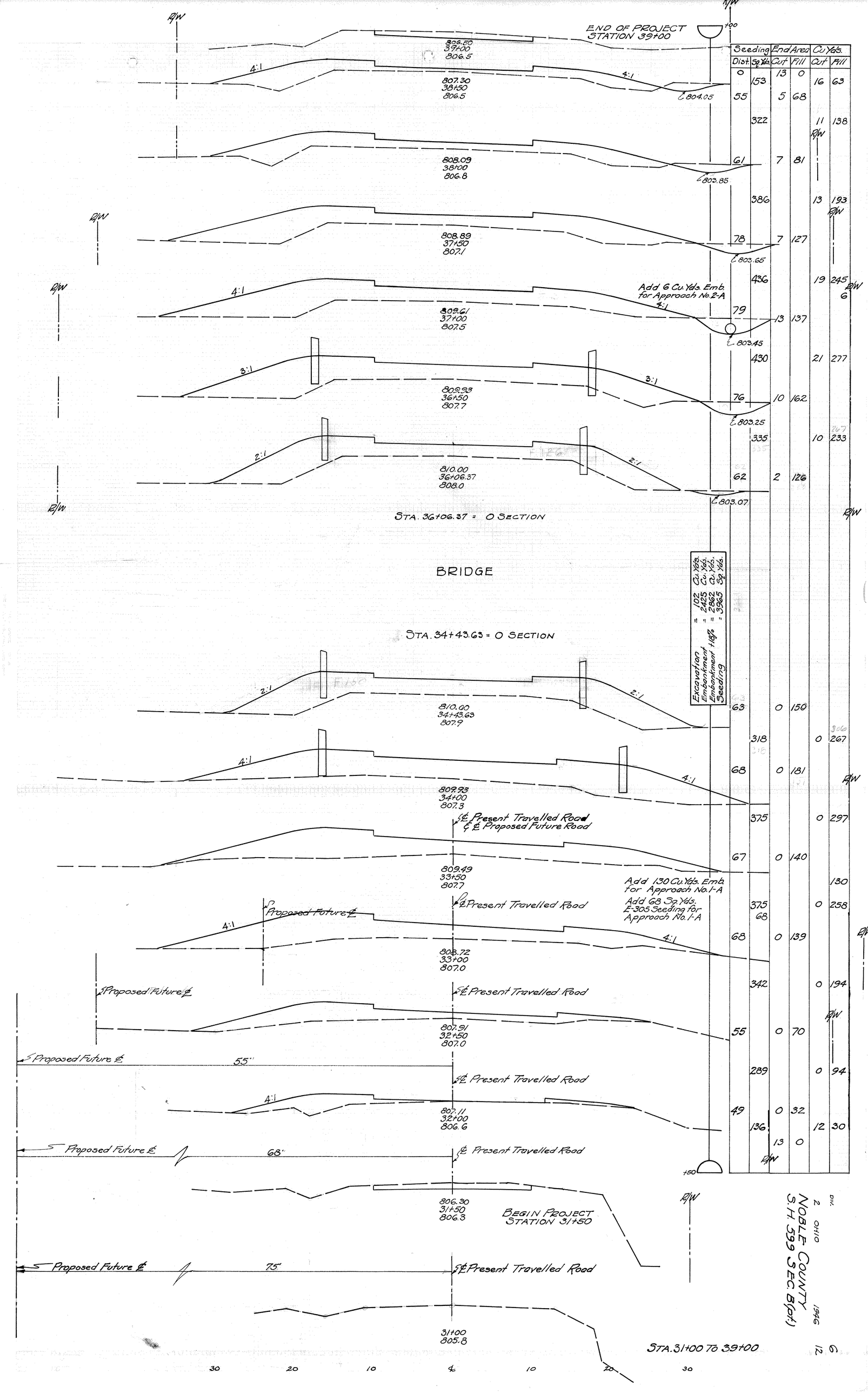
EXISTING BRIDGE NO-146-07

Station	Type	Span	Length	Rd'wy.
35+17	Timber, on Pile Bents	6@12'	72	24'

Note: Two Spans on South end Collapsed
Removal included in Bridge Quantities Sheet No. 10



NOTE: 2760 Cu.Yds. Channel Excavation to be used in Roadway Embankment.

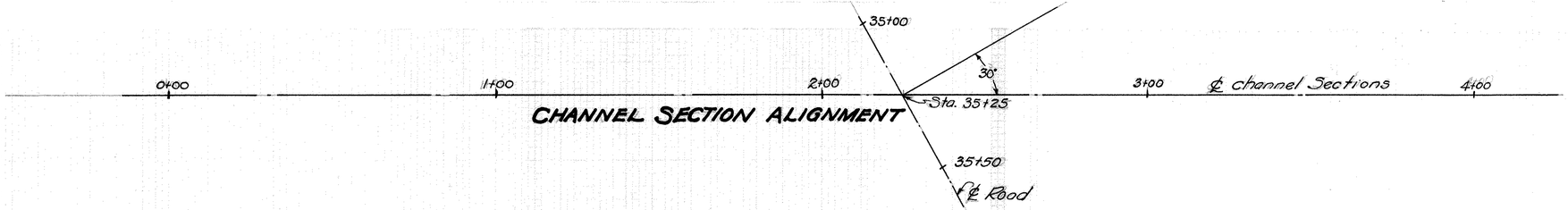


Seeding Dist.	Seeding Sq. Yds.	End Area Cut	End Area Fill	Cu. Yds. Cut	Cu. Yds. Fill
0		13	0		
	153			16	63
55		5	68		
	322			11	138
61		7	81		
	386			13	193
78		7	127		
	436			19	245
79		13	137		
	430			21	277
76		10	162		
	335			10	233
62		2	126		
	318			0	267
68		0	181		
	375			0	297
67		0	140		
	375			0	258
68		0	139		
	342			0	194
55		0	70		
	289			0	94
49		0	32		
	136			12	30
		13	0		

DIV. 2 OHIO
NOBLE COUNTY
S.H. 599 SEC. B(pt.)
1946
6
12

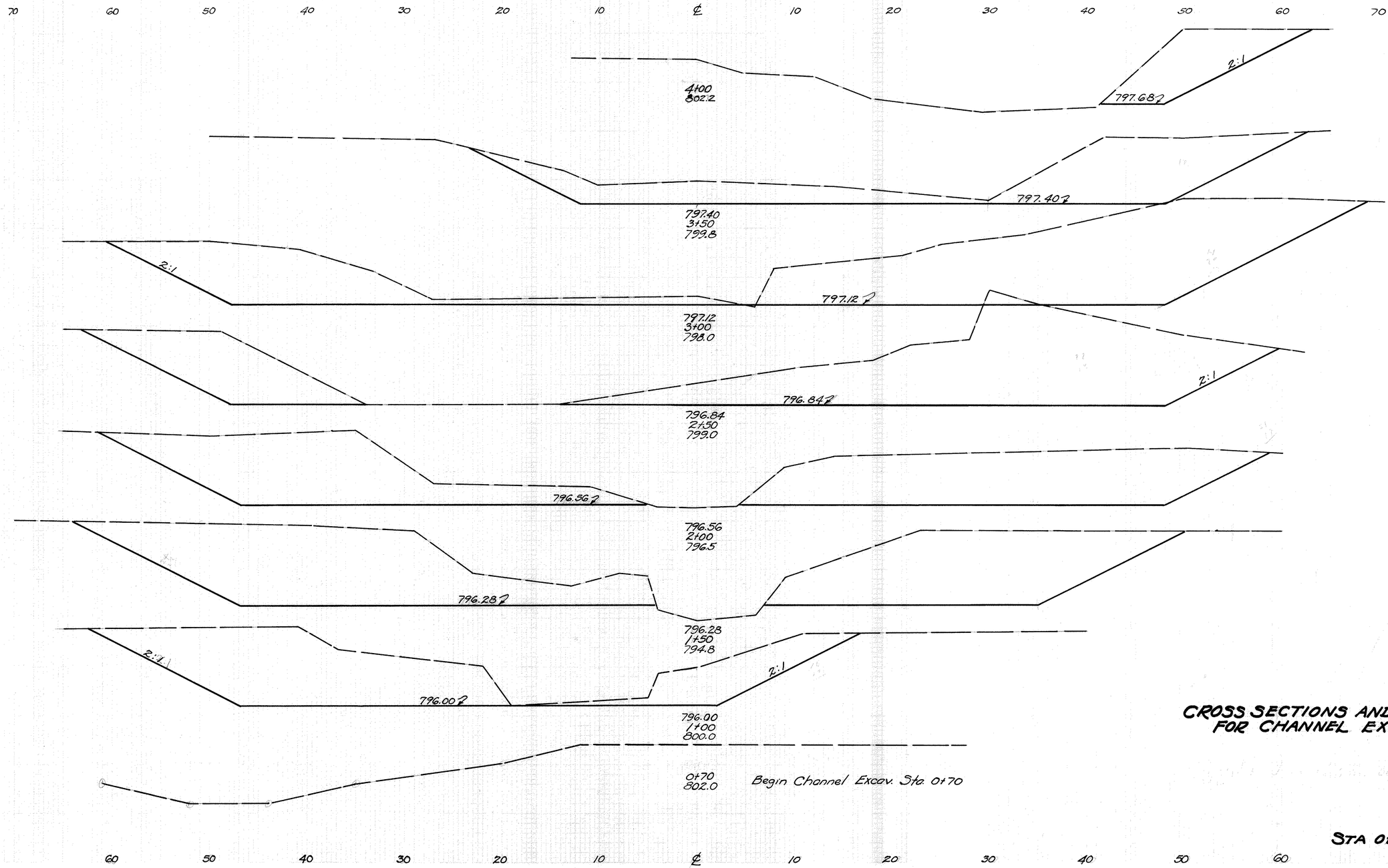
2 OH10 1946 12

NOBLE COUNTY
S.H. 599 SEC. "B" (pt.)



CHANNEL SECTION ALIGNMENT

End Channel Excav. Sta. 4+32



CROSS SECTIONS AND ALIGNMENT FOR CHANNEL EXCAVATION

STA 0+70 to STA 4+32

Note: Channel Seeding is measured from bottom of side slope to a point 5' beyond top of slope.
Channel Excavation = 4634 Cu. Yds.
Seeding = 1463 Sq. Yds.

	Cut		Seeding	
	End Area	Cu. Yds.	Dist.	Sq. Yds.
4+32 =	0		0	
		47		39
	79		22	
		279		169
	223		39	
		696		242
	528		48	
		929		244
	476		40	
		868		217
	461		38	
		918		233
	531		46	
		758		247
	287		43	
		159		72
0+70 =	0		0	

FED. RD. DIST. NO.	STATE	PROJECT	FISCAL YEAR
10	OH10		1946

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NOBLE COUNTY
S.H. 599 SEC. "B"(pt.)

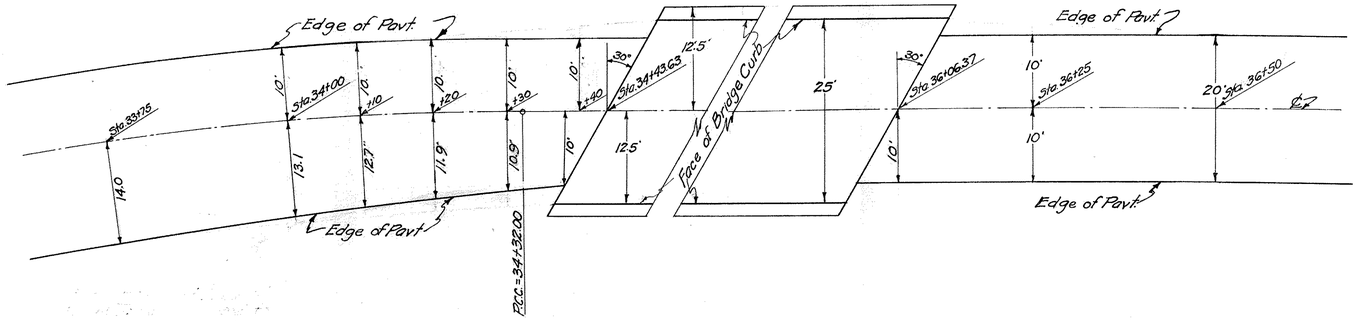
CURVE NO. 1

P.C. = 32+70.00 — P.C.C. = 34+32.00

D = 15° Rt.

LEFT Add to Lt. Edge	LEFT Edge of Pavt.	LEFT Width	Station	Profile Grade	RIGHT Width	RIGHT Edge of Pavt.	RIGHT Deduct fr. Gr. El.
0.00	806.13	10.00	31+50	806.30	10.00	806.13	0.17
0.19	806.72		+75	806.70	10.82	806.53	
0.50	807.44		32	807.11	11.65	806.94	
0.82	808.16		+25	807.51	12.47	807.34	
1.10	808.84		+50	807.91	13.30	807.74	
1.30	809.36		+70	808.23	14.00	808.06	
1.35	809.50		+75	808.32		808.15	
1.50	810.05		33	808.72		808.55	
1.52	810.47		+25	809.12		808.95	
1.36	810.68		+50	809.49		809.32	
1.09	810.68		+75	809.76	14.00	809.59	
0.92	810.68		34	809.93	13.10	809.76	
0.85	810.68		+25	810.00	11.30	809.83	
0.85	810.68		+32	810.00	10.70	809.83	
0.85	810.68	10.00	+38	810.00	10.00	809.83	0.17

Extra Pavt. Area = 87.3 Sq. Yds



PAVEMENT DETAIL AT BRIDGE

Scale 1" = 10'

CURVE NO. 2

P.C.C. = 34+32.00 — P.T. = 43+92.36

D = 2°00' Rt.

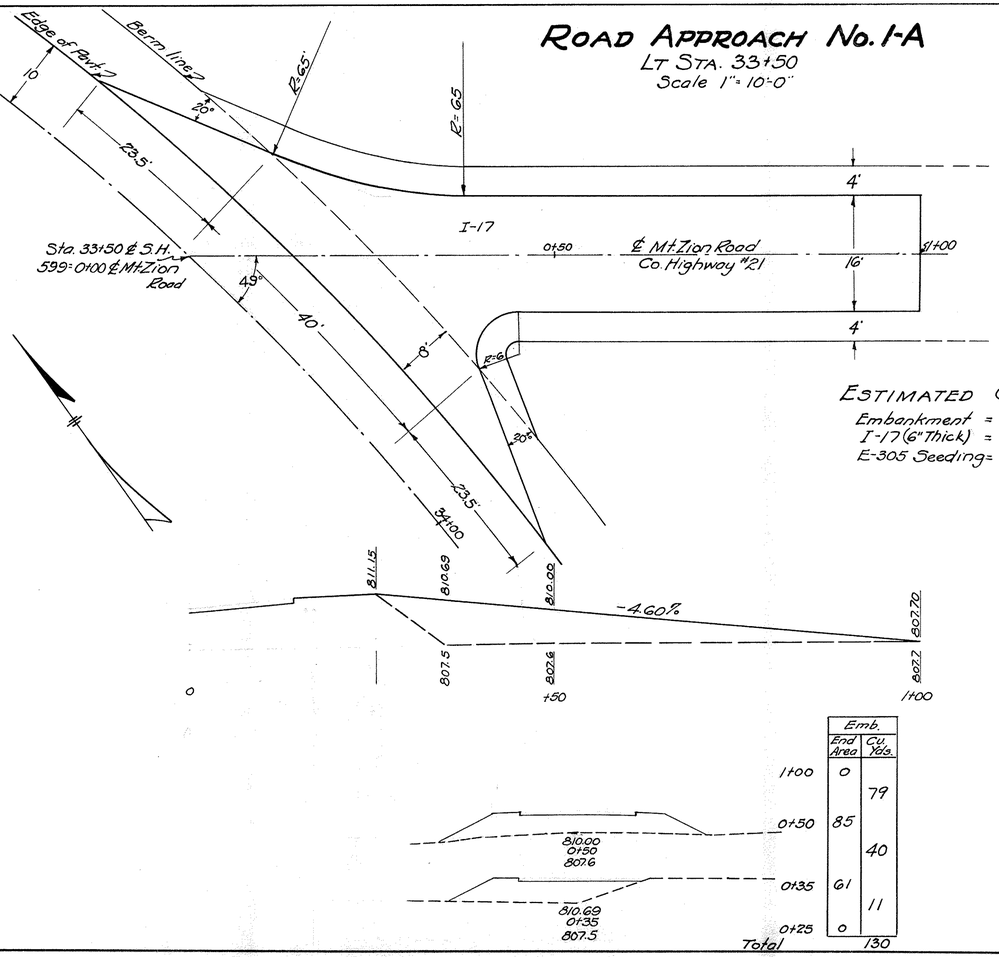
LEFT Add to Lt. Edge	LEFT Edge of Pavt.	LEFT Width	Station	Profile Grade	RIGHT Width	RIGHT Edge of Pavt.	RIGHT Deduct fr. Gr. El.
0.85	810.68	10.00	34+32.00	810.00	10.70	809.83	0.17
0.85	810.68	10.00	+43.63	810.00	12.50	809.83	0.17
			Bridge				
0.85	810.68	12.50	36+06.37	810.00	10.00	809.83	0.17
0.79	810.62	10.00	+25	810.00	10.00	809.83	
0.68	810.44	10.00	+50	809.93	10.00	809.76	
	810.35		+75	809.84		809.67	
	810.12		37+00	809.61		809.44	
	809.80		+25	809.29		809.12	
	809.40		+50	808.89		808.72	
	809.00		+75	808.49		808.32	
	808.60		38+00	808.09		807.92	
	808.21		+25	807.70		807.53	
	807.81		+50	807.30		807.13	
	807.41		+75	806.90		806.73	
0.68	807.01	10.00	39+00	806.50	10.00	806.33	0.17

No Extra Pavt.

ROAD APPROACH NO. 1-A

Lt. Sta. 33+50

Scale 1" = 10'-0"



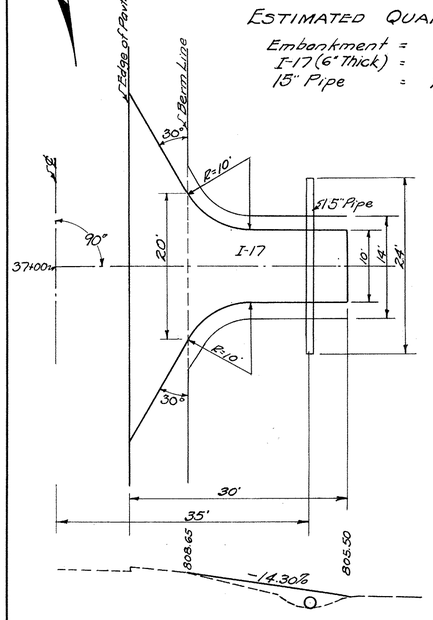
ESTIMATED QUANTITIES

Embankment = 130 Cu. Yds.
I-17 (6" Thick) = 33.1 Cu. Yds.
E-305 Seeding = 68 Sq. Yds.

APPROACH NO. 2-A

Rt. Sta 37+00

Scale 1" = 10'-0"



ESTIMATED QUANTITIES

Embankment = 6 Cu. Yds.
I-17 (6" Thick) = 9.1 " "
15" Pipe = 24 Lin. Ft.

FED. RD. DIV. NO.	STATE	PROJECT	FISCAL YEAR
2	OHIO	H. I. F.	1946

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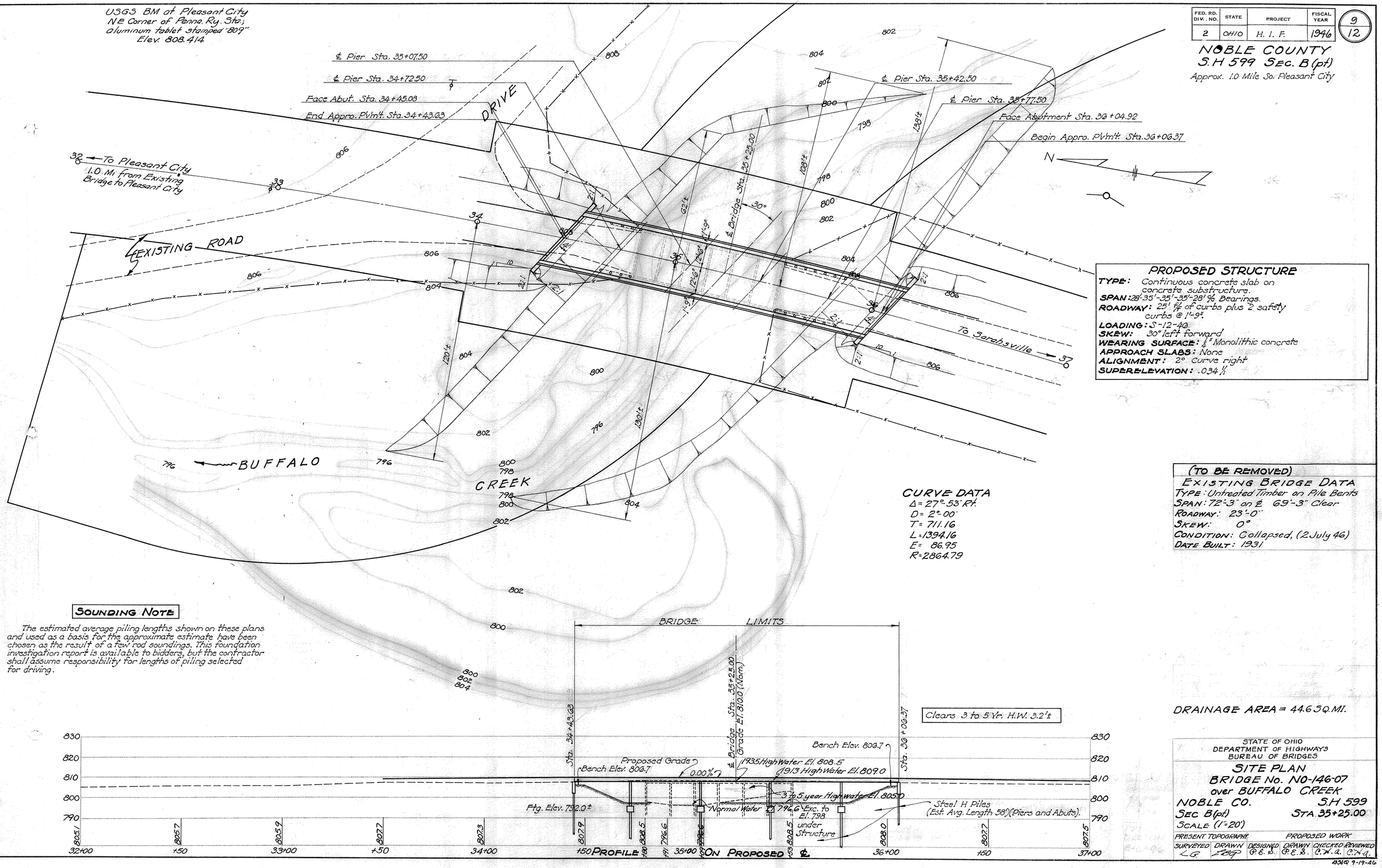
NOBLE COUNTY
S.H 599 Sec. B (pt)
Approx. 1.0 Mile So. Pleasant City

USGS BM of Pleasant City
NE Corner of Penna. Ry. Sta.;
aluminum tablet stamped "809"
Elev. 808.414



PROPOSED STRUCTURE

TYPE: Continuous concrete slab on concrete substructure.
SPAN: 28'-35'-35'-35'-28' ℄ Bearings.
ROADWAY: 25' ℄ of curbs plus 2 safety curbs @ 1'-9".
LOADING: S-12-40
SKEW: 30° left forward
WEARING SURFACE: 1½" Monolithic concrete
APPROACH SLABS: None
ALIGNMENT: 2° Curve right
SUPER-ELEVATION: .034 ft

CURVE DATA

Δ = 27°-53' Rt.
D = 2°-00'
T = 711.16
L = 1394.16
E = 86.95
R = 2864.79

(TO BE REMOVED)
EXISTING BRIDGE DATA

TYPE: Untreated Timber on Pile Bents
SPAN: 72'-3" on ℄ 69'-3" Clear
ROADWAY: 23'-0"
SKEW: 0°
CONDITION: Collapsed, (2 July 46)
DATE BUILT: 1931

SOUNDING NOTE

The estimated average piling lengths shown on these plans and used as a basis for the approximate estimate have been chosen as the result of a few rod soundings. This foundation investigation report is available to bidders, but the contractor shall assume responsibility for lengths of piling selected for driving.

DRAINAGE AREA = 44.630 SQ. MI.

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES

SITE PLAN
BRIDGE No. NO-146-07
over BUFFALO CREEK

NOBLE CO. S.H 599
Sec B (pt) STA. 35+25.00
SCALE (1"=20')

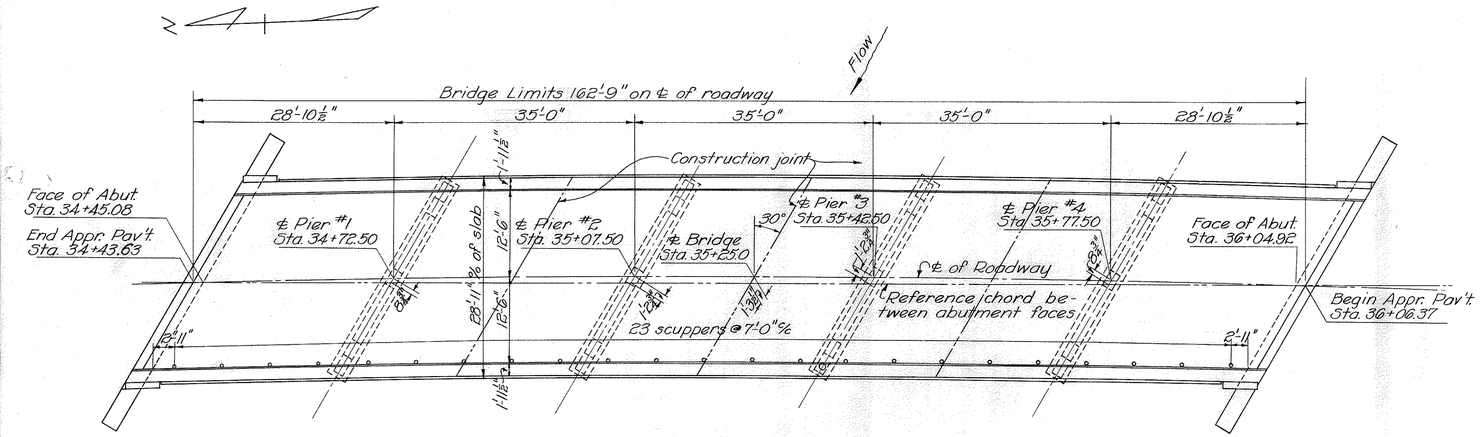
PRESENT TOPOGRAPHY			PROPOSED WORK		
SURVEYED	DRAWN	DESIGNED	DRAWN	CHECKED	REVIEWED
L.G.	F.J.G.	P.E.D.	P.E.B.	C.N.A.	C.N.A.

ADD'D 7-19-46

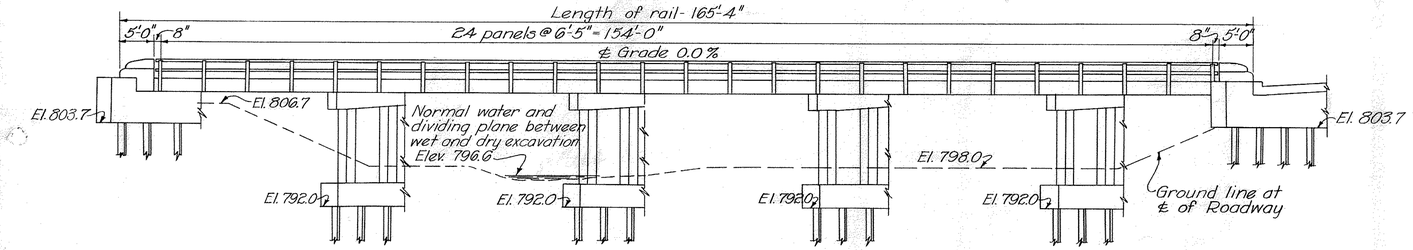
FED. RD. DIST. NO.	STATE	FED. AID PROJECT	FISCAL YEAR
10	OHIO		1946

10
12

NOBLE COUNTY
S. H. 599 SEC. B (Pt.)



PLAN



ELEVATION

GENERAL NOTES

EXISTING SUPERSTRUCTURE shall be removed and piled for disposal by the State.

EXISTING SUBSTRUCTURE shall be removed and piled for disposal by the State, except piling which shall become the property of the contractor.

FALSEWORK PLANS in triplicate shall be submitted by the Contractor, not less than fifteen days prior to beginning construction of the falsework, to the Director for approval by the Bureau of Bridges.
Falsework shall be supported on piling designed to carry the superimposed loads and driven in accordance with an approved pile-driving formula.

SHOP PAINT for steel railing shall meet the requirements of Sections M-9.9, M-9.20 or M-9.21.

REINFORCING STEEL shall meet the requirements of Section M-7.1 Intermediate or Hard Grade, or M-7.2 Rail Steel.

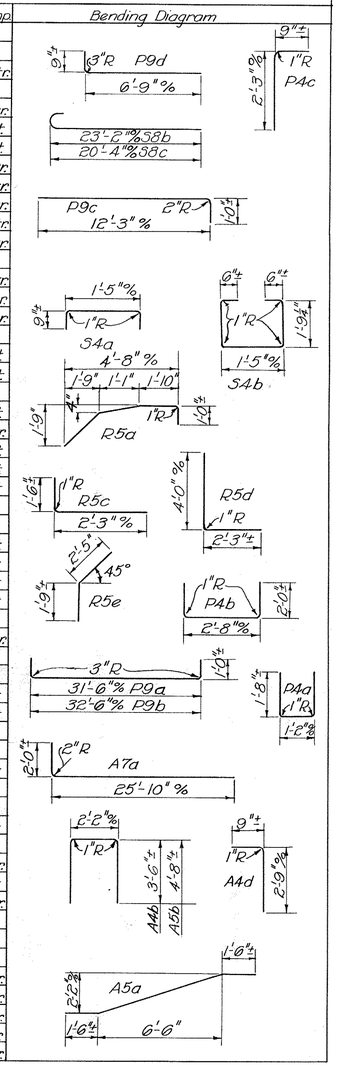
ESTIMATED QUANTITIES

Item	Total	Unit	Description	Abut.	Piers	Superstr.	General	As Built	
E-2	Lump	Lump Sum	Cofferdams and pumping				Lump		Lump
E-2	97	Cu. yds.	Excavation for structures, dry	70	27				97
E-2	120	Cu. yds.	Excavation for structures, wet		120				120
S-1	227	Cu. yds.	Class "C" concrete, superstructure			227			227
S-1	54	Cu. yds.	Class "C" concrete, abutments	54					54
S-1	36	Cu. yds.	Class "C" concrete, piers		36				36
S-1	51	Cu. yds.	Class "C" concrete, footings		51				51
S-3	12	Sq. yds.	Type "B" waterproofing	12					12
S-4	87115	Lbs.	Reinforcing Steel	4196	24815	57938	166	C-2 +3605	90720
S-9	48	Sq. ft.	¼" Premolded expansion joint filler	48					48
S-14	3307	Lin. ft.	Railing (Steel with concrete end posts)			3307			3307
S-16	Lump	Lump Sum	First test pile (12 BP53)				Lump		Lump
S-18	1860	Lin. ft.	Steel piling 12 BP53	700	1160			C-2, -317.7	1542.3
S-24	Lump	Lump Sum	Removal of existing structure				Lump		Lump
E-3	4654	Cu. Yds.	Channel Excavation						4654

REINFORCING STEEL LIST

Mark	Size	No	Length	Weight	Shp
		SUPERSTRUCTURE			
S9a	1⅛" □	50	36'-3"	7794	Str.
S8a	1" □	110	35'-3"	13183	Str.
S8b	1" □	22	23'-9"	1777	Bt.
S8c	1" □	20	21'-0"	1428	Bt.
S8d	1" □	33	21'-0"	2356	Str.
S8e	1" □	30	17'-6"	1785	Str.
S8f	1" □	87	24'-3"	7173	Str.
S8g	1" □	42	14'-6"	2071	Str.
S8h	1" □	42	11'-0"	1571	Str.
S5a	⅝" φ	45	19'-6"	1316	Str.
S5b	⅝" φ	30	20'-9"	934	Str.
S5c	⅝" φ	265	33'-0"	13118	Str.
S4a	⅝" φ	400	2'-9"	1144	Bt.
S4b	⅝" φ	400	5'-0"	2288	Bt.
R5a	¾" φ	8	6'-6"		Bt.
R5b	¾" φ	16	3'-9"	Incl. with Railing	Str.
R5c	¾" φ	16	3'-9"		Bt.
R5d	¾" φ	16	6'-3"		Bt.
R5e	¾" φ	8	4'-3"		Bt.
		PIERS			
P9a	1⅛" □	32	33'-0"	4541	Bt.
P9b	1⅛" □	32	34'-0"	4678	Bt.
P9c	1⅛" □	96	13'-0"	5366	Bt.
P9d	1⅛" □	96	7'-3"	2993	Bt.
P7a	1" φ	24	32'-6"	2083	Str.
P4a	⅝" φ	556	4'-3"	2458	Bt.
P4b	⅝" φ	360	6'-6"	2434	Bt.
P4c	⅝" φ	84	3'-0"	202	Bt.
		ABUTMENTS			
A7a	1" φ	32	27'-9"	2371	Bt.
A5a	⅝" φ	20	9'-9"	292	Bt.
A5b	¾" φ	8	11'-6"	138	Bt.
A4a	⅝" φ	8	25'-3"	210	Str.
A4b	⅝" φ	104	9'-3"	1000	Bt.
A4c	⅝" φ	16	3'-3"	54	Str.
A4d	⅝" φ	36	3'-6"	131	Bt.
		REPLACEMENT STEEL			
RE9	1⅛" □	2	8'-6"	73	Str.
RE8	1" □	2	8'-0"	54	Str.
RE7	1" φ	1	8'-0"	21	Str.
RE5	¾" φ	1	7'-0"	11	Str.
RE4	⅝" φ	1	6'-6"	7	Str.

Bending Diagram



Revised As-Built C.W.K.

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES

GENERAL PLAN AND ELEVATION NOTES, QUANTITIES AND REINFORCING STEEL LIST

BR. NO. NO-146-07
OVER BUFFALO CREEK

NOBLE CO.
SEC. B (Pt.)

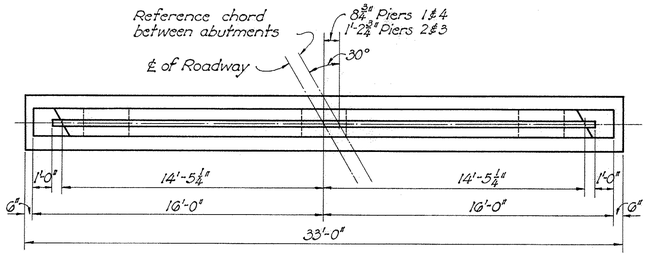
S. H. 599
STA. 35+25.0

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
		N.E.	M.J.T.	BFG	9-19-46	

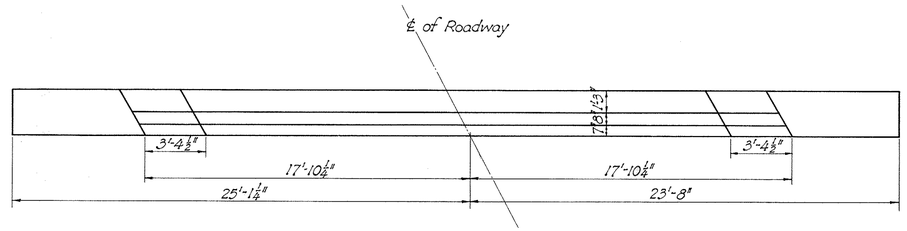
FED. RD. DIST. NO.	STATE	FED. AID PROJECT	FISCAL YEAR
10	OHIO		1946

11/12

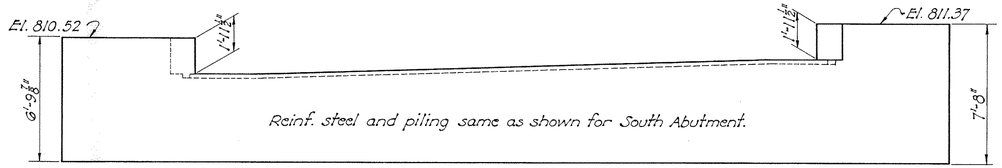
NOBLE COUNTY
S. H. 599 SEC. B (pt.)



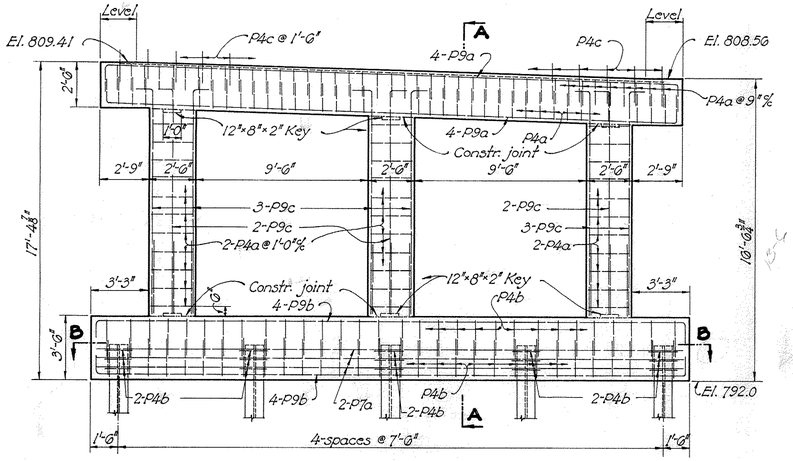
PLAN OF PIER



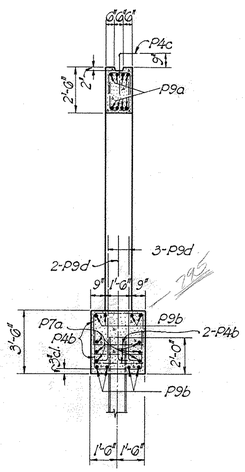
PLAN OF ABUTMENTS



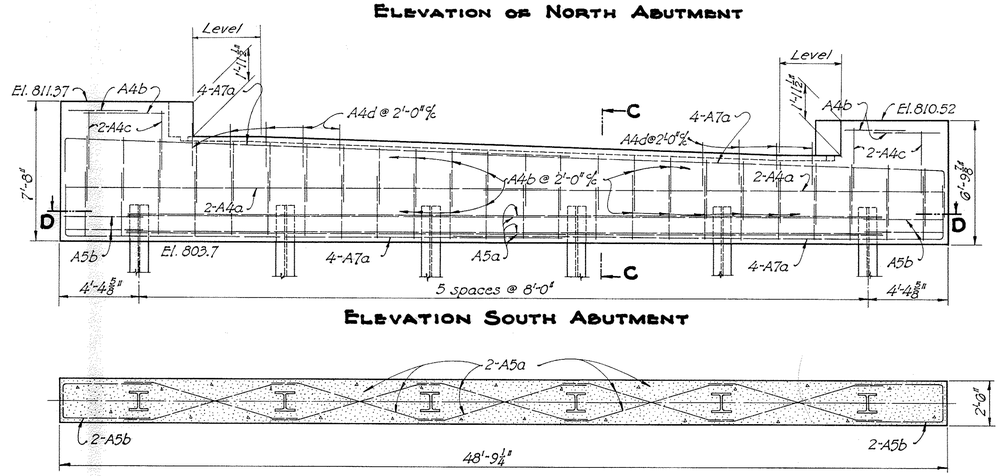
ELEVATION OF NORTH ABUTMENT



ELEVATION OF PIER

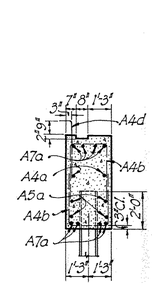


SECTION A-A

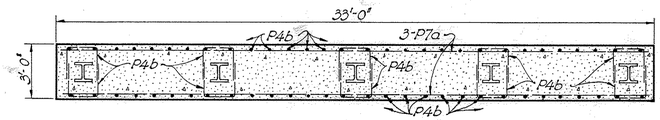


ELEVATION SOUTH ABUTMENT

SECTION D-D



SECTION C-C



SECTION B-B

NOTE: Clearance from reinforcing steel to face of concrete shall be 2" unless otherwise noted.

All piling shall be 12BP53. Piling shall be driven to a minimum bearing capacity of 30 tons for abutment piles and 45 tons for pier piles.

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES

SUBSTRUCTURE DETAILS

BR. NO. NO.-146-07
OVER BUFFALO CREEK

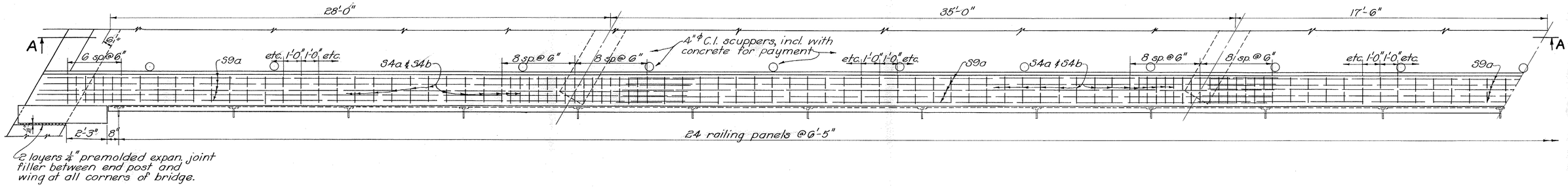
NOBLE COUNTY S.H. 599
SEC. B (pt) STA. 35+25.00

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
mfw	mfw	James	M.J.J.	BFG	9-19-46	

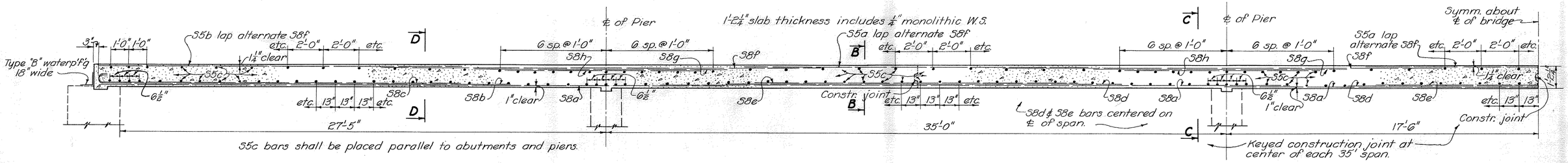
FED. RD. DIST. NO.	STATE	FED. AID PROJECT	FISCAL YEAR
10	OHIO		1946

12
12

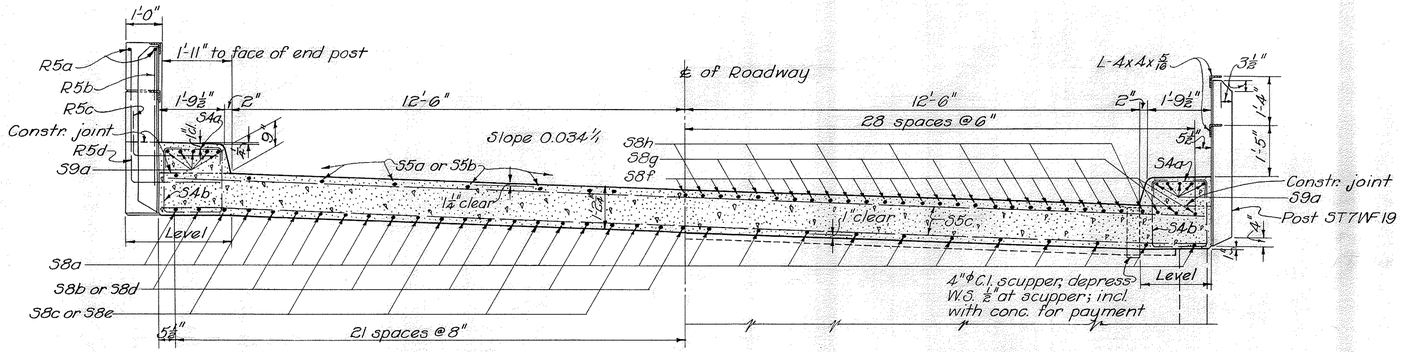
NOBLE COUNTY
S. H. 599 SEC. B (Pt.)



PART PLAN

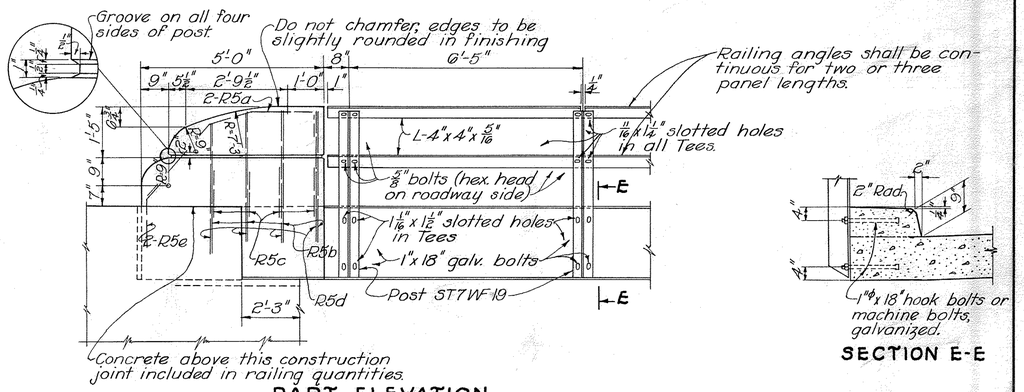


SECTION A-A



SECTION B-B AND D-D

SECTION C-C



PART ELEVATION

SECTION E-E

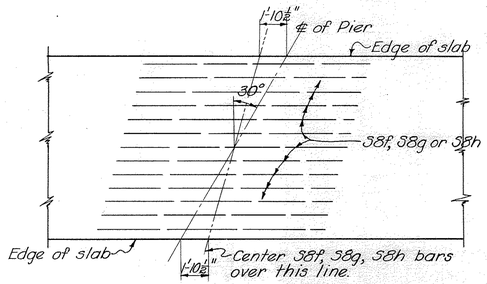


DIAGRAM SHOWING METHOD OF PLACING 58f, 58g & 58h BARS

POURING PROCEDURE

The procedure for the forming, placing of concrete and removal of forms shall be as follows:

Constr. joints in midspan

Pour 1	Pour 2	Pour 3	Pour 4
Span A	Span B	Span C	Span D	Span E

Complete forms and falsework for Spans A, B, and C before pour 1 is placed.

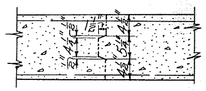
Complete forms and falsework for Span D before pour 2 is placed.

Forms and falsework may be removed from Span A when concrete in pour 2 has met requirements for removal as per Item 3-0.01.

Complete forms and falsework for Span E before pour 3 is placed.

Forms and falsework may be removed from Span B when concrete in pour 3 has met requirements for removal as per Item 3-0.01.

Forms and falsework may be removed from Spans C, D, and E when concrete in pour 4 has met requirements for removal as per Item 3-0.01.



DECK CONSTRUCTION JOINT

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES

SUPERSTRUCTURE DETAILS

BR. NO. NO-146-07
OVER BUFFALO CREEK

NOBLE CO. SEC. B (Pt.) — S.H. 599 STA. 35+25.00

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
mfw	mfw	N.E.	W.J.J.	BFG	9-19-46	