For Part I See Plan For FRA-270-10.71S

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-IG-270-4(2)102	

1/332

STATE OF OHIO
DEPARTMENT OF HIGHWAYS

FRA-270-11.59S

GRADE SEPARATIONS WITH THE CHESAPEAKE AND OHIO RAILWAY COMPANY & NORFOLK AND WESTERN RAILWAY COMPANY

VILLAGE OF OBETZ
HAMILTON AND MADISON TOWNSHIPS
FRANKLIN COUNTY

I-IG-270-4(2)102

FRANKLIN COUNTY
FRA-270-11.59S
PART 2

1965 SPECIFICATIONS

L&D Office Copy

LIMITED ACCESS- This improvement is especially designed for through traffic and has been declared a limited access highway or freeway by action of the Director of Highways in accordance with the provisions of Section 5511.02 of the Revised Code of Ohio.

Drawer 2B

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

APPROVED DATE 4-5-66 — E. H. Williams, DIVISION DEPUTY DIRECTOR

APPROVED DATE 6-17-66 — C. H. Abbott, ENGINEER OF BRIDGES

APPROVED DATE 6-20-66 — R. D. Rakestraw, ENGINEER OF LOCATION AND DESIGN

APPROVED DATE 6-21-66 — P. E. Shultz, DEPUTY DIRECTOR OF DESIGN AND CONSTRUCTION

APPROVED DATE 9-30-66 — T. H. Board, DEPUTY DIRECTOR OF RIGHT OF WAY

APPROVED DATE 9-30-66 — R. W. Wilson, DEPUTY DIRECTOR OF PLANNING AND PROGRAMMING

APPROVED DATE ____ — FIRST ASSISTANT DIRECTOR

APPROVED DATE 9-30-66 — P. E. Mashetz, DIRECTOR OF HIGHWAYS

CONVENTIONAL SIGNS

CENTER LINE			
PROPERTY LINE	-PL-PL-		
R/W WITH LIMITED ACCESS	-LA-		
R/W WITHOUT LIMITED ACCESS	-RW-		
LIMITED ACCESS AND R/W LINE	-LA/RW-		
R/W EASEMENT LINE			
EXISTING R/W			
COUNTY LINE			
TOWNSHIP AND CORPORATION LINE			
CONSTRUCTION LIMITS			
EXISTING FENCE LINES	-x-x-		
UNDERGROUND UTILITIES: GAS, WATER, TEL.	-G-W-T-		
R/W FENCE			
EXISTING GUARD RAIL			
PROPOSED GUARD RAIL			
POWER POLES		FIRE HYDRANT	
TELEPHONE POLES		WATER LINE VALVES	
TELEGRAPH POLES		TRAFFIC SIGNAL	
LIGHT POLES		GAS VALVES OR METERS	V M
HIGH VOLTAGE TRANSMISSION LINE		EX. INLET OR MH	
RAILROAD TRACKS			

INDEX

Sheet Nos. 284 & 290 rev. 11-22-66 C.W.
Sheet Nos. 20 & 21 rev. 11-22-66 C.E.H.
Sheet No. 300 revised 1-26-66

LINE DATA

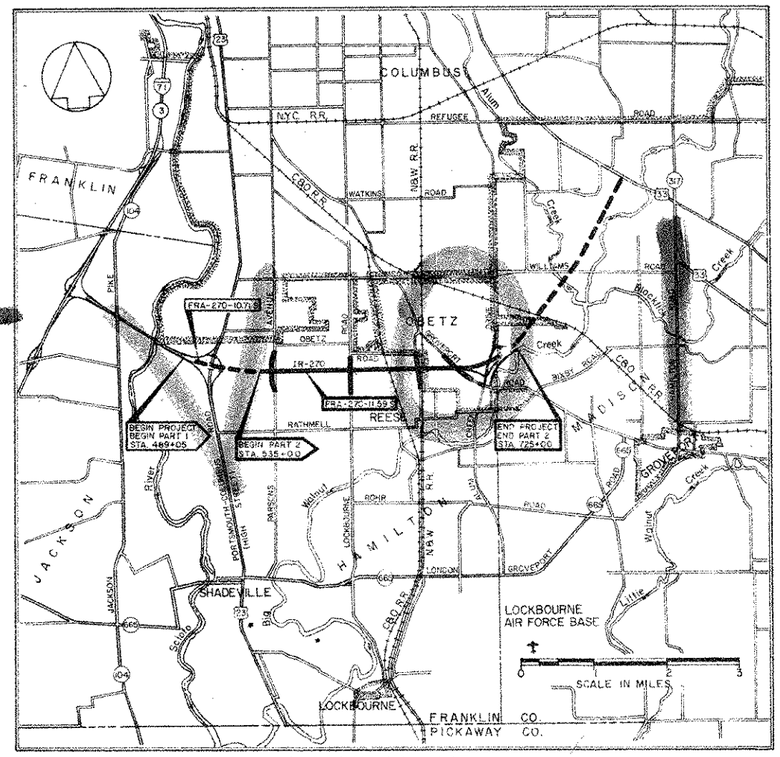
PART 1 FRA-270-10.71S "I" SECTION		PART 2 FRA-270-11.59S "I" SECTION	PART 2 FRA-270-11.59S "IG" SECTION
FOR LINE DATA PART 1 AND TOTAL PROJECT SEE SHEET 1 OF PART 1	BEGIN PART 2	535+00	
	SUSPEND "I"	610+00	BEGIN "IG" 610+00
	RESUME "I"	665+00	END "IG" 665+00
	END PROJECT	725+00	
		13,500 L.F.	5,500 L.F.
		2.556 MILES	1.041 MILES

PROJECT LENGTH PART 2 — 19,000.00 L.F. = 3.598 MILES

ADD FOR APPROACHES

GROVEPORT ROAD	STA. 10+12.21	TO	10+67.00	= 54.79 L.F.
REL. ALUM CREEK DRIVE	STA. 29+25.00	TO	74+13.20	= 4,488.20 L.F.
REL. PARSONS AVENUE	STA. 7+75.00	TO	33+00.00	= 2,525.00 L.F.
LOCKBOURNE ROAD	STA. 38+25.00	TO	59+00.00	= 2,075.00 L.F.
REL. OBETZ-REESE ROAD	STA. 21+00.00	TO	40+00.00	= 1,900.00 L.F.
GROVEPORT ROAD	STA. 127+90.00	TO	159+16.00	= 3,126.00 L.F.
STEGNER ROAD	STA. 0+95.50	TO	9+90.00	= 894.50 L.F.
EAST APPROACH	STA. 725+00.00	TO	726+00.00	= 100.00 L.F.

LENGTH OF APPROACH — 15,163.49 L.F. = 2.871 MILES
LENGTH OF WORK PART 2 — 34,163.49 L.F. = 6.470 MILES



LOCATION MAP

Delivery Point Groveport - N&W or C&O
Average haul from siding 2 miles

Portion to be improved
State Roads
Other Roads

SCALES IN FEET

PLAN	50
PROFILE HORIZONTAL	50
PROFILE VERTICAL	5
CROSS SECTIONS	10

NOT D

Plans Prepared By
BURGESS & NIPLE LIMITED,
CONSULTING ENGINEERS
2015 WEST FIFTH AVENUE, COLUMBUS, OHIO.
FOR THE STATE OF OHIO
Recommended For Approval
Robert B. Timmerman

File No.	FRA-270-11.59S
	Date of Letting
	Contract No.

STANDARD CONSTRUCTION DRAWINGS	SUPPLEMENTAL SPECIFICATIONS
See Sheet 1, Part 1	See Sheet 1, Part 1

DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC ROADS

APPROVED _____ DIVISION ENGINEER _____ DATE

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

2/332

SCHEMATIC PLAN

FRANKLIN COUNTY
FRA-270-11.59S

SCALE 1" = 800'

CITY OF COLUMBUS

HAMILTON TOWNSHIP

FRANKLIN COUNTY

MADISON TOWNSHIP

OBETZ

REESE

WILLIAMS ROAD 123

OBETZ ROAD 246

RATHMELL ROAD 121

SEDAN AVENUE

LINDSAY ROAD

HOWARD ROAD

STEGNER RD.

DAUGHERTY AVE.

LISLES AVE.

SANDRIDGE

PARSONS AVENUE 124

HIGH STREET ISR 231

ROAD 13

LOCKBOURNE ROAD 248

ALUM CREEK DRIVE 122

RAILROAD

CHESAPEAKE AND OHIO RAILROAD

NORFOLK AND WESTERN RAILROAD

OHIO CHESAPEAKE RAILROAD

OBETZ-REESE ROAD

GROVEPORT ROAD

FRONTAGE ROAD

BIG WALNUT CREEK

BIXBY ROAD

CLICKENGER AIRPORT

BUCHSIEB PARK

IR 270

BEGIN PROJECT
BEGIN PART 1
FRA-270-10.71S
STA 485+08
SLM 10.71
1-IG-270-4(2)102

END PART 1
FRA-270-10.71S

BEGIN PART 2
FRA-270-11.59S
STA. 538+00
SLM 11.59

END PROJECT
FRA-270-11.59S
STA. 725+00
SLM 15.19

BEGIN PROJECT
FRA-270-15.19
1-IG-270-4(11) 106

1-IG-270-4(2) 102
END PART 2

END I SECTION

SUSPEND I SECTION
BEGIN IG SECTION 610+00

END IG SECTION
RESUME I SECTION 665+00

FRA-270-1172S
FRA-270-1275S
FRA-270-1326S
FRA-270-1372S
FRA-270-1423S
FRA-270-1465-66S

End Work 33+00
End Work 59+00
End Work 40+00
End Work 74+13.20
End Work 9+90
End Work 29+20
End Work 726+00
End Work 70+67

Begin Work 7+75
Begin Work 38+25
Begin Work 21+00
Begin Work 127+90
Begin Work 6+50
Begin Work 0+96.60
Begin Work 33+75
Begin Work 1+25.00
Begin Work 29+23

Median Crossover 537+75.00
Median Crossover 663+88.00
Median Crossover 29+75

F.A.C.I. Sign

SCHEMATIC PLAN

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

3
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FRANKLIN COUNTY
FRA - 270 - 11.59 S

SCHEMATIC PLAN & PROFILE

0 100 200 400

CORP LINE

OBETZ ROAD

Section 16
Section 15
Section 21
Section 22
Section 14
Section 23

End Work 33+00

END PART 1
FRA 270-10.71S
I-270-4(2)102

BEGIN PART 2
FRA 270-11.59S
STA. 535+00
SLM 11.59
I-IG-270-4(2) 102

BEGIN 1 SECTION

AVENUE

TOWER

1144'

End Work 59+00

Median Crossover
Sta. 537+75.00

FRA-270-1172S
542+20.00 ℄ I.R. 270
20+00 RELOC. PARSONS AVE.

I.R. 270

S86°19'15"E

FRA-270-1275S
596+41.61 ℄ I.R. 270 =
50+00 ℄ LOCKBOURNE RD.

DITCH

PARSONS

REL

COUNTY

SANDRIDGE

FRANKLIN COUNTY
HAMILTON TOWNSHIP

LOCKBOURNE

℄ Temporary Pavement

Begin Work 7+75

Begin Work 38+25

MATCH LINE PART 1
PART 2

Match Line

No V.C. West Bound
+0.198% W.B.
+0.402% E.B.

400' V.C. East Bound
P.V.I. 538+25 EL. 726.09

+0.24%

400' V.C.
P.V.I. 566+75 EL. 732.93

-0.24%

P.V.I. 579+00 EL. 729.99
400' V.C.

-0.32%

500' V.C.

750
740
730
720
710

535 540 545 550 555 560 565 570 575 580 585 590 595 600

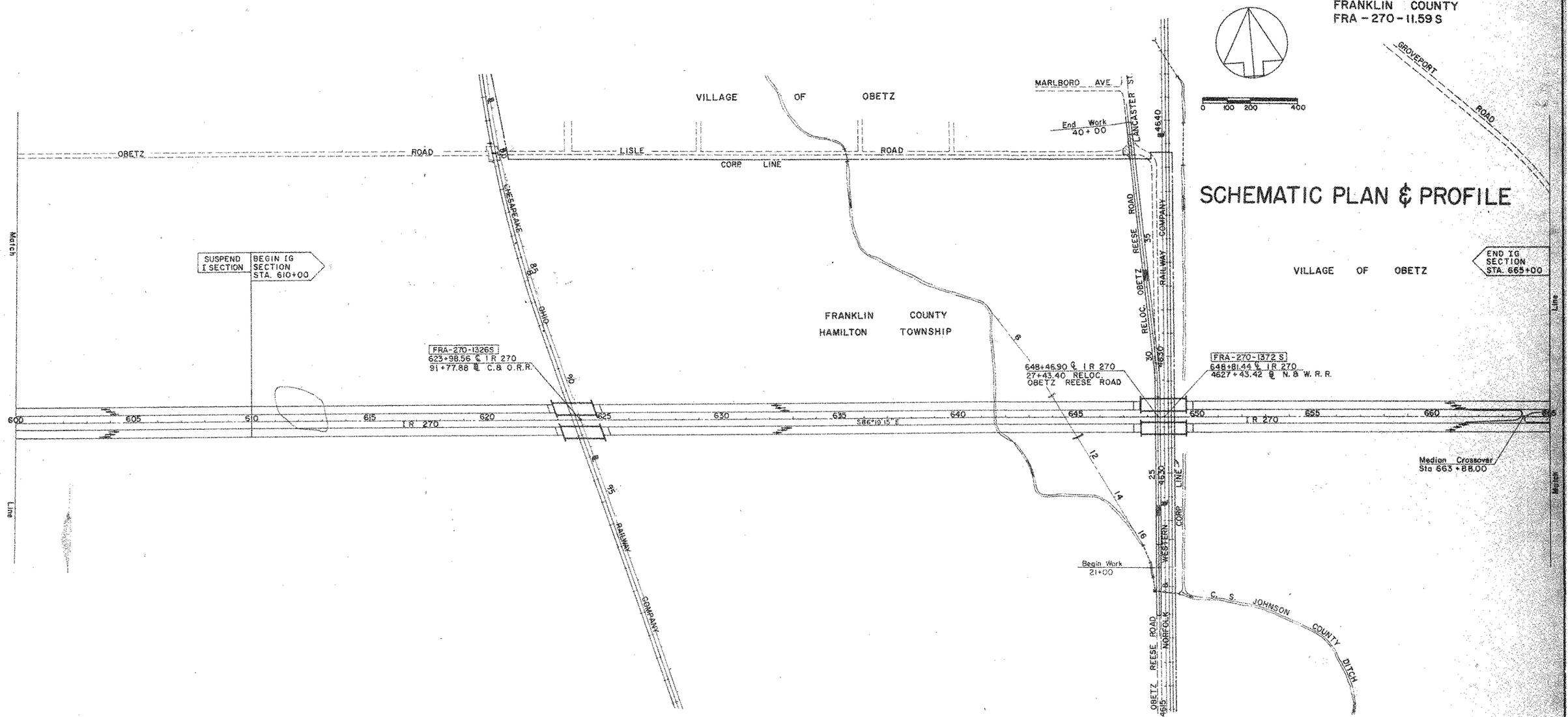
SCHEMATIC PLAN & PROFILE 535 TO 600

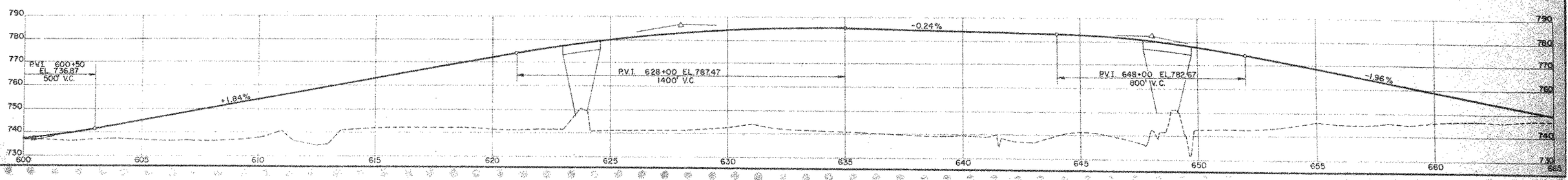
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

4
332

FRANKLIN COUNTY
FRA - 270 - 11.59 S

SCHEMATIC PLAN & PROFILE





SCHEMATIC PLAN & PROFILE 600 TO 665

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

5
332

FRANKLIN COUNTY
FRA 270 - 11.59S

SCHEMATIC PLAN & PROFILE

SCALE 0 100 200 400

VILLAGE OF OBETZ

Begin Work 127+90

RESUME 1 SECTION

Match Line

S86°19'15"E 670

Temporary Pavement

FRA-270-1423S
674+31.41 ℄ IR 270 =
137+30.00 ℄ GROVEPORT RD.

IR 270
CURVE DATA
P.I. 709+66.90
D=1°00'00"
Δ=56°14'42"
R=5729.59'
T=3062.20'
L=5624.50'
E=766.97'

P.C. 679+04.70

686+90.00 ℄ IR 270
10+00.00 ℄ RELOC. BOEHM COUNTY DITCH

Begin Work 6+40

GROVEPORT ROAD

BOEHM ROAD

RAMP T FUTURE

FRA-270-1465-66S
697+56.69 ℄ IR 270 =
50+00.00 ℄ RELOC. ALUM CREEK DR.

RAMP S FUTURE

RAMP W

RAMP V

RAMP Y

RAMP X

Ex. Alum Creek Drive

IR 270

SAMSON FRONTAGE ROAD

RELOC. ALUM CREEK DRIVE

ALUM CREEK DRIVE

Begin Work 1+25.00

End Work 26+70

35+29.08 ℄ RELOC. ALUM CREEK DR. =
9+72.70 ℄ GROVEPORT RD. - AHEAD =
159+55.51 ℄ GROVEPORT RD. - BACK

F.A.C.T. Sign

End Work 10+67

Begin Work 29+25

FATHMILL ROAD

OBETZ WATER PLANT

STEIGNER RD.

COUNTY Section 13 24

D I T C H

STEIGNER STREET

STA. EQUATION
℄ ALUM CREEK DRIVE =
F.C. TAPER ALUM CREEK DRIVE

STA. EQUATION
Z12+89.04 RAMP Y1 =
89°05.02 RELOC. ALUM CREEK DRIVE

Begin Work 0+95.50

Begin Work 6+50 Cul-de-Sac

End Work 9+50

HOWARD RD.

LINDSAY RD.

STA. EQUATION
℄ 74+13.20 RELOC. ALUM CREEK =
℄ 42+23.47, 11.88 RT. ALUM CREEK

FACT Sign

End Work 74+13.20

ALUM CREEK DRIVE

CORP. LINE

Alum Creek Drive Turnout

Begin Work 33+73

End Work 29+20 Cul-de-Sac

Section 18 19

1-IG-270-4(2) 102
END PROJECT
FRA 270-11.59S
STA 725+00
SLM 15.19

END I SECTION

1-IG-270-4(I)(II)06
BEGIN PROJECT I
FRA-270-15.19S

End Work 726+00

CORP. LINE

S86°19'15"E

BIG WALNUT CREEK

N37°26'03"E

FRANKLIN COUNTY
MADISON TOWNSHIP

P.I. 709+66.90

STA. EQUATION
693+70.37 Vi =
695+92.78 Wi =
45+50 RELOC. ALUM CREEK DRIVE

Section Section

PVI 672+50 EL 734.65
500 V.C.
-1.96%
-0.28%

PVI 697+00 EL 727.79
600 V.C.
+0.28%

PVI 726+50 EL 736.05
600 V.C.
+2.00%

760 750 740 730 720 710

665 670 675 680 685 690 695 700 705 710 715 720 725 730

SCHEMATIC PLAN & PROFILE 665 TO 730

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

6/332

FRANKLIN COUNTY
FRA 270 - 11.59S

DESIGN DESIGNATION TRAFFIC

IR 270 & REL. ALUM CREEK DRIVE INTERCHANGE
1985 DESIGN YEAR

SCALE 0 100 200 400

VILLAGE OF OBETZ

Begin Work
End Work 94+90
HOWARD RD.
STA. EQUATION @ 74+13.20 RELOC. ALUM CREEK = C 42+23.45, 11.88' RT. ALUM CREEK
ALUM CREEK DRIVE
End Work 74+15.20
CORP. LINE
Alum Creek Drive Turnout
Begin Work 33+75
STEGNER STREET
COUNTY DITCH
STA. EQUATION RELOC. ALUM CREEK DRIVE = ALUM CREEK DRIVE PC-TAPER ALUM CREEK DRIVE
STA. EQUATION 112+88.04 RAMP Y = 59+00.02 RELOC. ALUM CREEK DRIVE
Begin Work 0+95.50
OBETZ WATER PLANT
STEGNER RD.
61+70.91 RELOC. ALUM CREEK DRIVE
End Work 6+50 Cul-de-Sac
End Work 29+20 Cul-de-Sac
674+31.41 ℄ IR 270 = 137+30.00 ℄ GROVEPORT RD.
696+90.00 ℄ IR 270 10+00.00 ℄ RELOC. BOEHM COUNTY DITCH
687+35.69 ℄ IR 270 = 50+00 ℄ RELOC. ALUM CREEK DR.
1-IG-270-4(12)102 END PROJECT FRA 270-11.59S STA 725+00 SLM 15.19
1-IG-270-4(11)106 BEGIN PROJECT FRA-270-15.19S
END T SECTION
End Work 10+00 59073
IR 270
RAMP W
RAMP V
RAMP X
RAMP Y
GROVEPORT ROAD
BOEHM
SAMSON FRONTAGE ROAD
35+29.08 ℄ RELOC. ALUM CREEK DR. = 9+72.70 ℄ GROVEPORT RD. - AHEAD = 159+55.51 ℄ GROVEPORT RD. - BACK
RELOC. ALUM CREEK DRIVE
ALUM CREEK DRIVE
Begin Work 1+25.00
RATHMILL ROAD
STA. EQUATION 693+70.37 VI = 696+92.78 VI = 45+50 RELOC. ALUM CREEK DRIVE
CORP. LINE
BIG WALNUT CREEK
FRANKLIN COUNTY
MADISON TOWNSHIP

DESIGN DESIGNATION

Design Speed	70 MPH
1962 A.D.T. I-270	28,880
1989 A.D.T. I-270	86,890
1989 D.H.V. I-270	9,560
D (directional distribution)	55%
T (percent B&C trucks)	4%

TRAFFIC DATA FOR OTHER ROADS

ROAD NAME	Type T.D. Road No.	1962 A.D.T. * Source	1985 A.D.T.		1985 A.D.T.
Rel. Parsons Avenue	124	157	1208		2283
Lockbourne Road	13	642	3300		6870
Rel. Obetz Reese Road	248	12	458		690
Groveport Road	7	530	4401		8880
Rel. Alum C.D. North of Groveport	122	535	4441		8700

* Values from Franklin County Engr.

The geometrics for this project have been planned for a design speed of 70 miles per hour.

LEGEND

1985 D.D.H.V. (Directional Design Hourly Volume)

1985 A.D.T. (Average Daily Traffic-both directions)

TRAFFIC = 1985 DESIGN YEAR

FED. RD. DIVISION	STATE	PROJECT		
2	OHIO			

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FRANKLIN COUNTY
FRA 270-11.59S

GEOMETRIC LAYOUT

SCALE 0 50 100 200

VILLAGE OF OBETZ

FRANKLIN COUNTY
MADISON TOWNSHIP

STA. EQUATION
712+69.04 RAMP Y1 =
59+05.02 RELOC.
ALUM CREEK DRIVE

STA. EQUATION
693+70.37 V1 =
695+92.78 W1 =
45+50 ℄ RELOC.
ALUM CREEK DRIVE

STA. EQUATION
℄ ALUM CREEK DRIVE =
℄ ALUM CREEK DRIVE = 15' RT.
P.C. TAPER ALUM CREEK DRIVE 39' LT.

STA. EQUATION
42+23.47 = 74+13.20 RELOC. ALUM CREEK DRIVE

35+29.08 ℄ RELOC. ALUM CREEK DR. =
9+72.70 ℄ GROVEPORT RD.- AHEAD =
159+55.51 ℄ GROVEPORT RD.- BACK

Begin Work 1+25

NOTE:
To Obtain State Plane Coordinates add 600,000 to North Cordinates given, and 1,800,000 to East Coordinates given.

CURVE DATA

Road	No.	Station	Δ	D	R	T	L
W	1	P.I.685+87.06	2°52'12"	00°30'	11,459.16	287.06	574.01
	2	P.I.2691+17.93	16°18'35"	6°00'	954.93	136.84	271.89
	3	S.C.695+00.24	36°58'03"		150.00	50.14	96.76
	4	P.C.C.695+97.02	14°50'07"		300.00'	39.06	77.68
V1	5A	P.C.694+32.68	68°06'06"		125.00'	84.48	148.57
V	5	P.I.69+93.06	18°00'16"	4°00'	1,432.39'	226.93	450.11
	6	P.I.2 701+29.11	25°52'48"	4°00'	1,432.39'	329.17	647.00
X	7	P.I.710+66.41	41°04'01"	8°00'	716.20'	268.25	513.34
	8	P.I.2 715+87.06	13°42'46"	2°30'	2291.83'	275.57	548.51
Y	9	P.I.2 714+95.23	10°08'24"	6°00'	954.93'	84.72	169.00
	11	C.S.1 711+50.51	162°24'22"	24°54'40"	230.00'		651.94
S	14	S.C. 684+70.45	257°03'55"	24°54'40"	230.00		1031.93
T	17	S.C.688+15.00	35°31'12"	12°00'	477.47'	152.93'	296.00
	20	S.C.2 695+96			296.00		
	22	S.C.2 700+36		17°00'	337.03		
Samson Alum Frontage Co. Dr.	26	P.I. 68+97.47	15°02'44"	4°00'	1,432.39'	189.16'	376.14
	28	P.I.1 4+67.42	42°30'	16°00'	358.10'	139.23'	265.67
	29	P.I.2 11+23.79	27°58'13"	4°30'	1,273.24'	317.10'	621.56
	30	P.I.3 23+15.00	14°14'41"	2°00'	2864.79'	357.96'	712.21

SPIRAL DATA

Road	No.	Station	Ls	θs	LT or T.	ST or T2	P	L
Y	10	713+50.51	200'	18°54'40"				
	12	704+98.57	200'	24°54'40"	134.68	67.89	7.20	199.37
S	13	697+02.38	200'	23°53'43"			6.91	
	15	684+70.45	150'	18°41'00"	100.57	50.52	4.06	74.73
	16	686+16.00	200'	12°00'00"	133.64	66.95	3.49	99.96
T	18	691+11.00	200'	12°00'00"	133.64	66.95	3.49	99.96
	19	694+/ 692+17	150'					
	21	698+86	150'					
	23	702+52	150'					
W	2A	699+00.24	200'	38°11'50"	136.58	69.62	10.91	38.62

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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FRANKLIN COUNTY
FRA 270-11.59S

SCALE 0 50 100 200

CROSS SECTION LAYOUT

VILLAGE OF OBETZ

STA. EQUATION
712+89.04 RAMP Y1 =
59+05.02 RELOC.
ALUM CREEK DRIVE

696+90.00 ℄ IR 270 =
10+00.00 ℄ RELOC.
BOEHM COUNTY DITCH

697+35.69 ℄ IR 270 =
50+00.00 ℄ RELOC
ALUM CREEK DRIVE

STA. EQUATION
693+70.37 V1 =
695+92.78 W1 =
45+50 ℄ RELOC
ALUM CREEK DRIVE

STA. EQUATION
℄ ALUM CREEK DRIVE =
℄ ALUM CREEK DRIVE = 15' RT.
P.C. TAPER ALUM CREEK DRIVE 39' LT.
61+70.81

STA. EQUATION
74+13.38 RELOC. ALUM CREEK
42+23.47 1.86' RT. ALUM CREEK

35+29.08 ℄ RELOC. ALUM CREEK DR.=
9+72.70 ℄ GROVEPORT RD.-AHEAD=
159+55.51 ℄ GROVEPORT RD.-BACK

FRANKLIN COUNTY
MADISON TOWNSHIP

INTERCHANGE CROSS SECTION LAYOUT

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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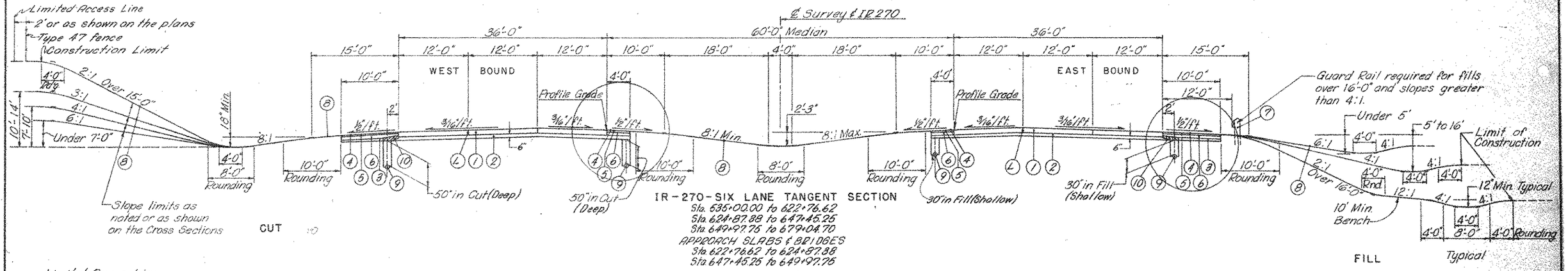
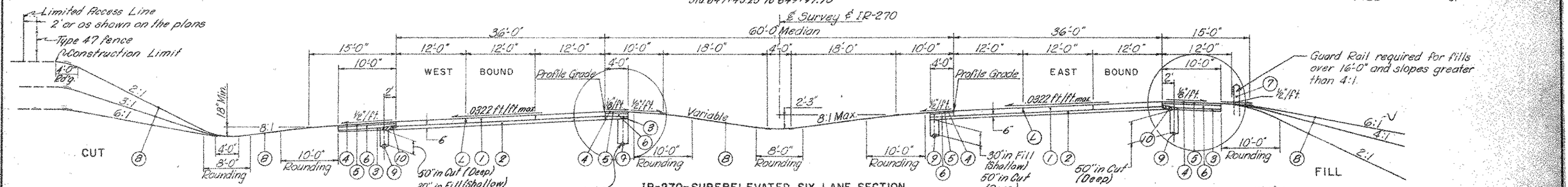
FRANKLIN COUNTY
FRA-270-11.59S

TYPICAL SECTIONS

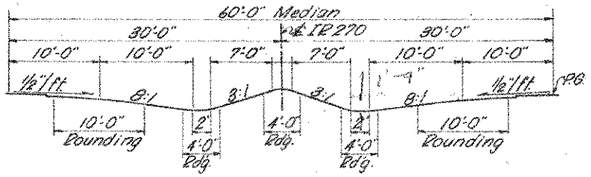
TYPE 451



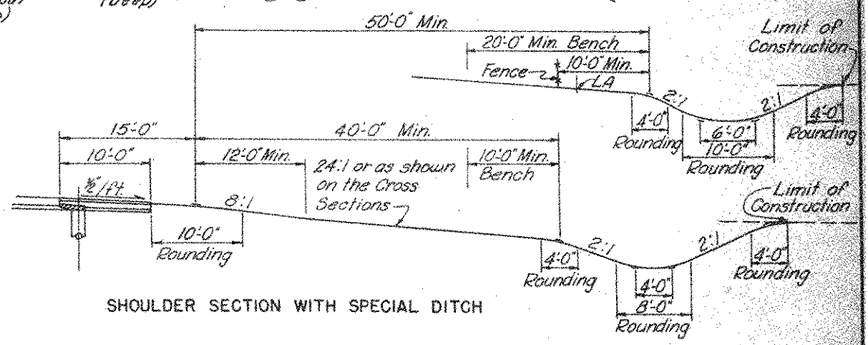
IR-270-SIX LANE TANGENT SECTION
Sta. 535+00.00 to 622+76.62
Sta. 624+87.88 to 647+45.25
Sta. 649+97.75 to 679+04.70
APPROACH SLABS & BRIDGES
Sta. 622+76.62 to 624+87.38
Sta. 647+45.25 to 649+97.75



IR-270-SUPERELEVATED SIX LANE SECTION
Sta. 679+04.70 to 686+53.36
Sta. 687+26.64 to 725+00.00
APPROACH SLABS & BRIDGE
Sta. 686+53.36 to 687+26.64



MEDIAN DETAIL AT STRUCTURES



SHOULDER SECTION WITH SPECIAL DITCH

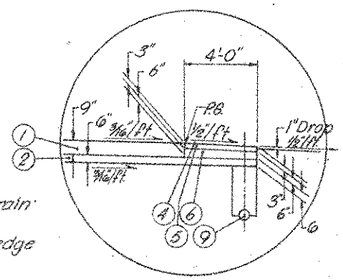
LEGEND

(1)	Item 451	9" Reinforced Portland Cement Concrete Pavement
(2)	Item 310	Subbase, Grading "A" or "B"
(3)	Item 310	Subbase
(4)	Item 409	Seal Coat using 0.008 Cu. Yd cover aggregate No. 8 and 0.25 gal. bituminous material per sq. yd. as per plan.
(5)	Item 301	3" Bituminous Aggregate Base 702.01(B5-100) or 702.09 RT-12.
(6)	Item 304	Aggregate Base
(7)	Item 606	Guard Rail, Type A
(8)	Item 659	Seeding and Mulching
(9)	Item 605	6" Pipe Underdrain
(10)	Item Special	Drainage Connection, using No. 8 Aggregate (See note in proposal)
(L)		Standard Longitudinal Joint

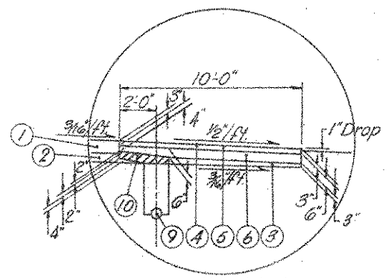
NOTES

For treatment of shoulders, slopes, and ditches, See Std Drawing MC-1

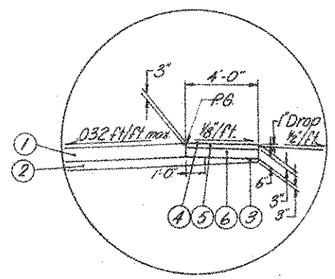
Sequence of Operations:
(1) Install pipe underdrain on outside shoulder. Installation of shallow underdrain in median may be deferred until Item 451 is placed.
(2) Place subbase out to outside edge of underdrain or to one foot beyond edge of pavement where no underdrain is present.
(3) Construct Item 451
(4) Remove subbase and any contaminated backfill over drain and replace with No. 8 Aggregate as shown by (10)
(5) Complete shoulder construction.



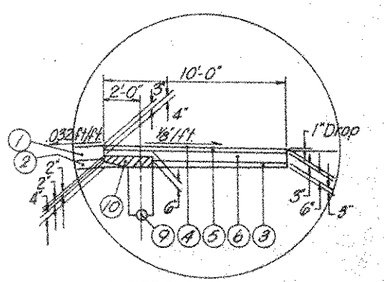
TANGENT SECTION
INSIDE SHOULDER



TANGENT SECTION
OUTSIDE SHOULDER



SUPERELEVATED SECTION
INSIDE SHOULDER
WEST BOUND ONLY



SUPERELEVATED SECTION
OUTSIDE SHOULDER
EAST BOUND ONLY

TYPICAL SECTIONS

TYPE 451

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

10
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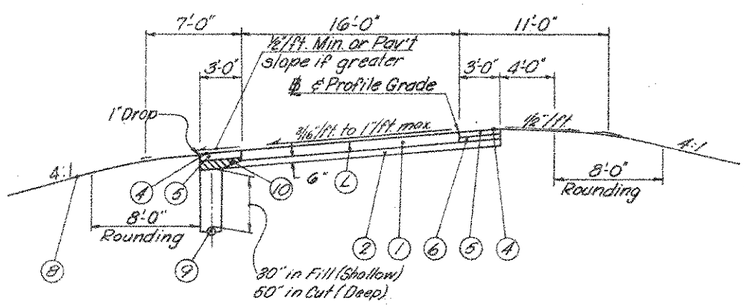
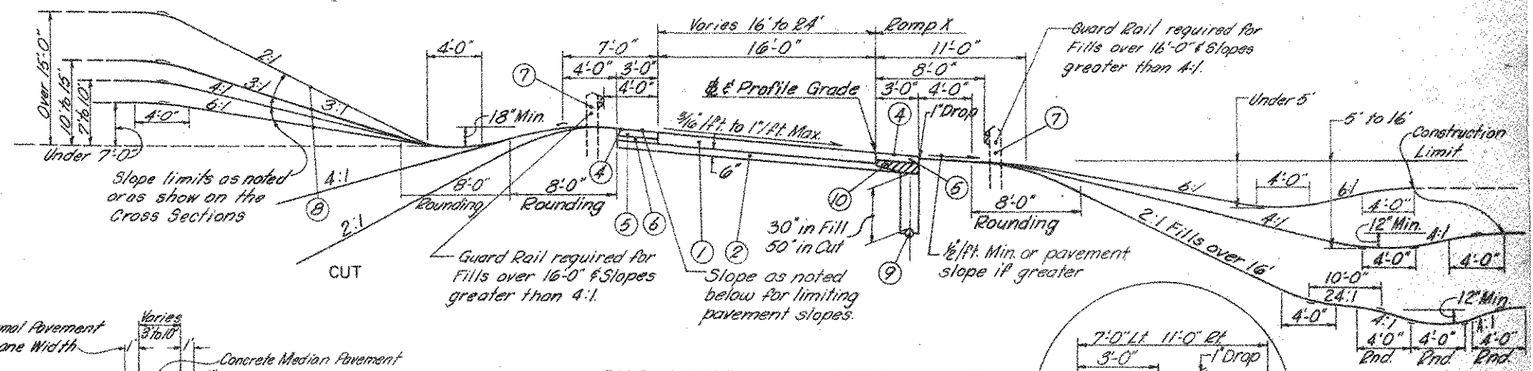
FRANKLIN COUNTY

FRA. 270-11.59 S

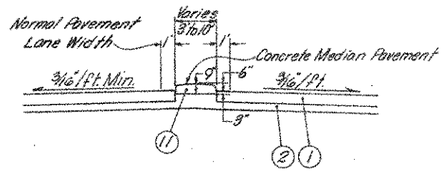


RAMP - SUPERELEVATED SECTION - LEFT

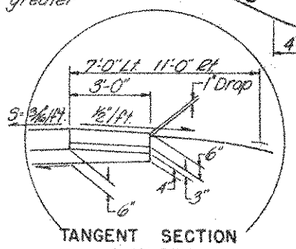


RAMP - SUPERELEVATED SECTION - RIGHT

FILL



CONCRETE MEDIAN PAVEMENT



TANGENT SECTION
HIGH SIDE
S = .0156 FT/FT.

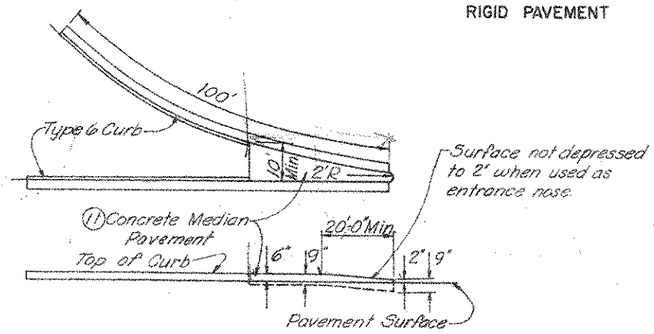
LEGEND

① Item 451 9" Reinforced Portland Cement Concrete Pavement
② Item 310 Subbase, Grading "A" or "B"
③ Item 310 Subbase
④ Item 409 Seal Coat using 0.008 Cu. Yd. cover aggregate No. 8 and 0.25 gal. bituminous material per sq. yd. as per plan.
⑤ Item 301 6" (2-3" layers) Bituminous Aggregate Base 702.01 (85-100) or 702.09 PT-12.
⑥ Item 304 5" Aggregate Base
⑦ Item 606 Guard Rail, Type A
⑧ Item 659 Seeding and Mulching
⑨ Item 605 6" Pipe Underdrain
⑩ Item Special Drainage Connection, using No. 8 Aggregate (See note in proposal)
⑪ Item 612 Concrete Median
Ⓛ Standard Longitudinal Joint

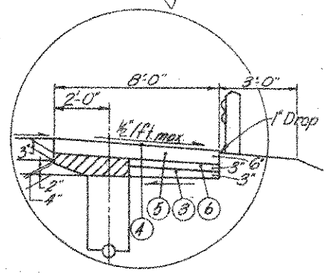
NOTES

Left and Right side of ramps are referenced to direction of travel instead of direction of stationing as used on the Ramp cross sections.

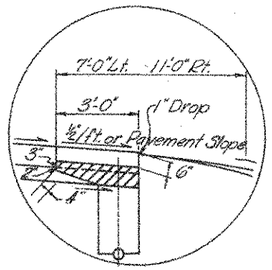
For Sequence of Operations see previous sheet.



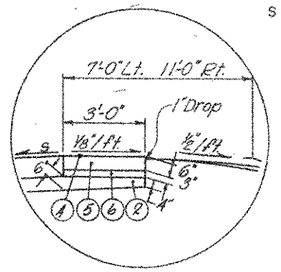
EXIT NOSE DETAIL



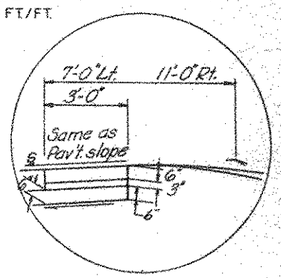
SPEED CHANGE LANE
RIGID PAVEMENT



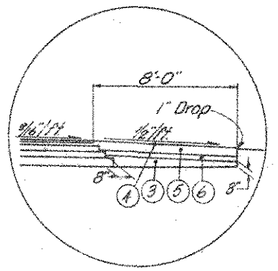
SUPERELEVATED SECTION
LOW SIDE
TANGENT SECTION
LOW SIDE



SUPERELEVATED SECTION
HIGH SIDE
S LESS THAN .042 FT./FT.



SUPERELEVATED SECTION
HIGH SIDE
S MORE THAN .042 FT./FT.



SPEED CHANGE LANE
FLEXIBLE PAVEMENT
See Shoulder Detail
Reloc. ALUM CREEK DR.

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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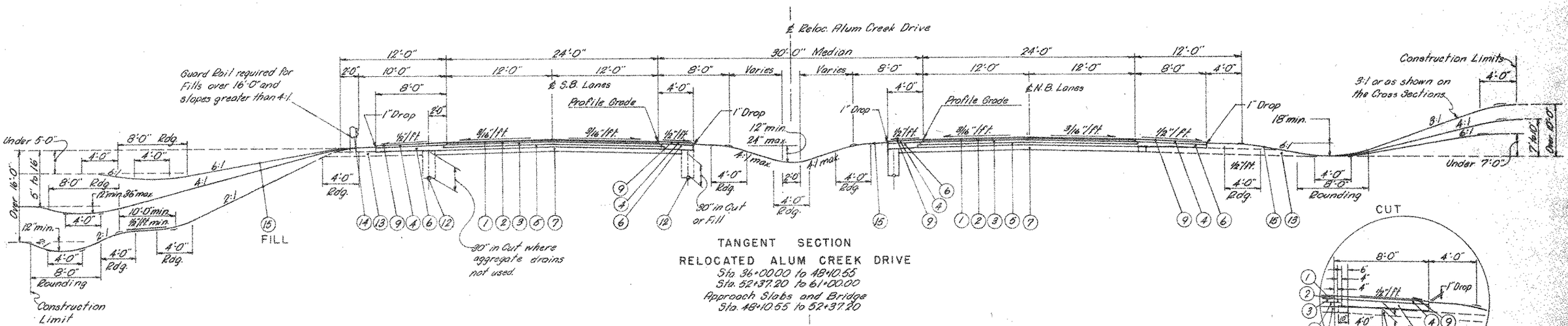
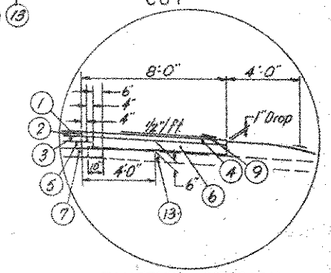
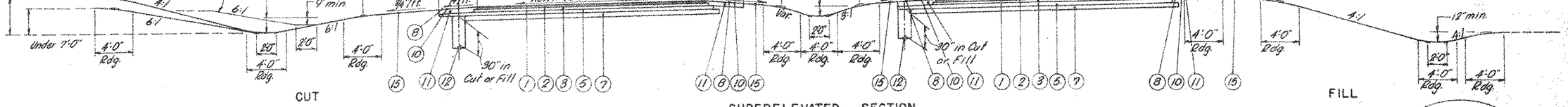
FRANKLIN COUNTY
FRA-270-11.59S

TYPICAL SECTIONS
TYPE 404 on 304

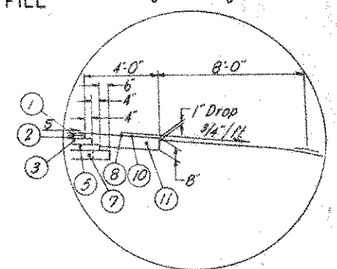




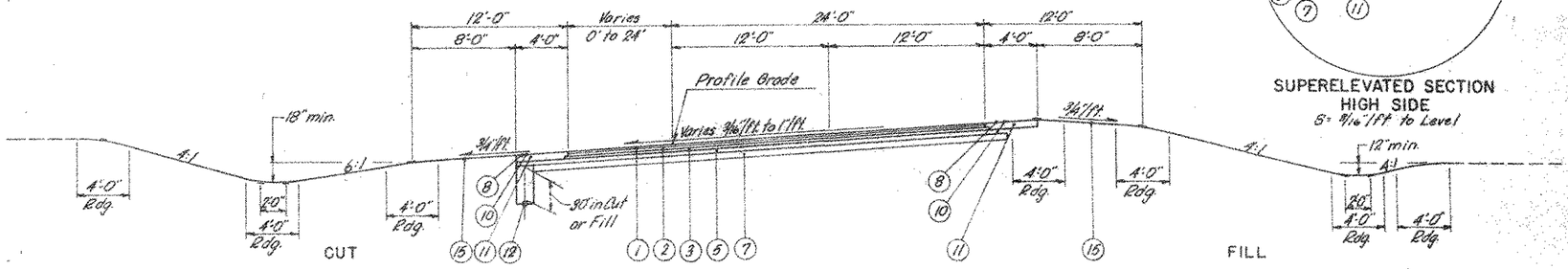
TANGENT SECTION
EDGE AND COURSE DETAIL



SUPERELEVATED SECTION
RELOCATED ALUM CREEK DRIVE
Sta. 61+00.00 to 67+75.00



SUPERELEVATED SECTION
HIGH SIDE
S= 9/16"/Ft. to Level



SUPERELEVATED TRANSITION SECTION
RELOCATED ALUM CREEK DRIVE
Sta. 67+75.00 to 70+84.45

Note: Item 407 Tack Coat applied at a rate of 0.10 gal. per sq. yd. where resurfacing is applied to exist. pavement.

LEGEND

①	Item 404	1¼" Asphalt Concrete (70-85)
②	Item 402	1¾" Asphalt Concrete (70-85)
③	Item 301	4" Bituminous Aggregate Base, 702.01(85-100) or 702.09 RT-12
④	Item 301	3" Bituminous Aggregate Base, 702.01(85-100) or 702.09 RT-12
⑤	Item 304	4" Aggregate Base
⑥	Item 304	Aggregate Base
⑦	Item 310	6" Subbase
⑧	Item 409	Seal Coat, using 0.008 Cu. Yd. cover aggregate No. 8 per sq. yd. and 0.30 gal. 702.09, RT-10 or RT-9 or 702.02, MC-800 or MC-3000.
⑨	Item 409	Seal Coat, using 0.008 Cu. Yd cover aggregate No. 8 and 0.25 gal. bituminous material per sq. yd. as per plan.
⑩	Item 408	Bituminous Prime Coat, 702.09, RT-2 or RT-3 applied at a rate of 0.40 gal. per sq. yd.
⑪	Item 304	8" Aggregate Base
⑫	Item 605	6" Pipe Underdrain
⑬	Item 605	Aggregate Drains
⑭	Item 606	Guard Rail, Type 4
⑮	Item 659	Seeding and Mulching
	Item 407	Tack Coat 702.04, MS-2 or RS-1 or 702.02, EC-70 or EC-250 applied at a rate of 0.10 gal. per sq. yd.

In lieu of 605.05, the aggregate drains shall be constructed before completion of aggregate shoulder.

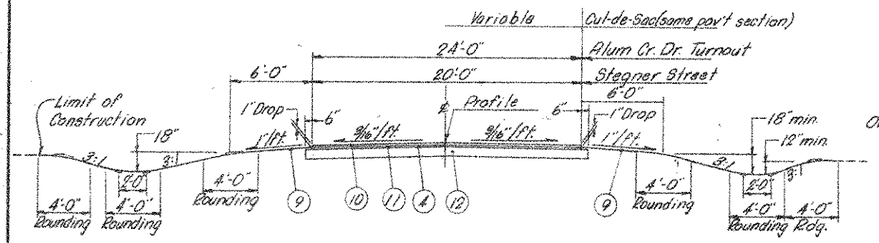
TYPICAL SECTIONS
TYPE 404

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

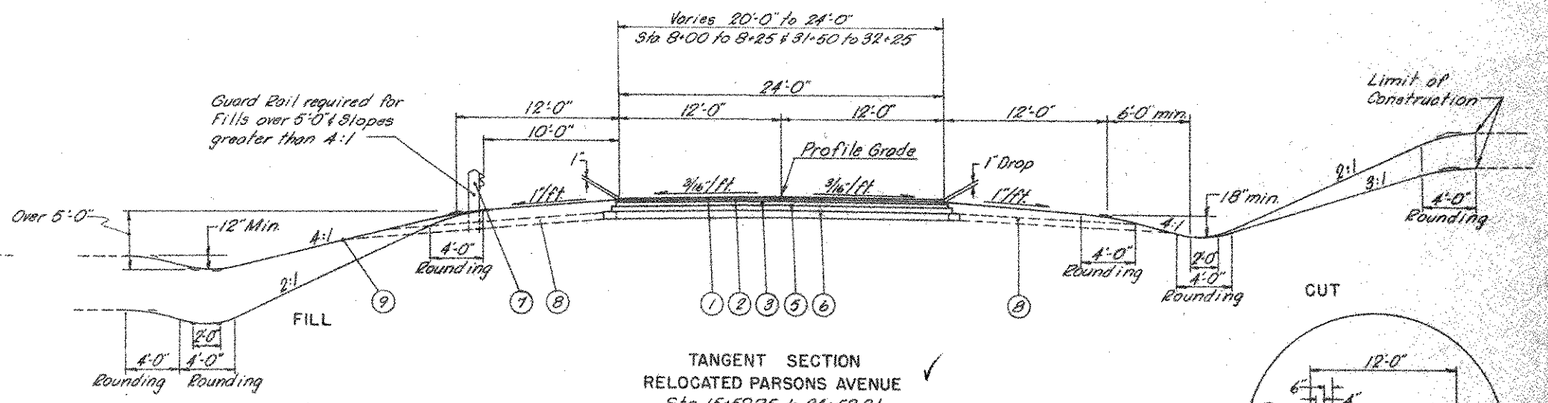
12/332

FRANKLIN COUNTY
FRA-270-11.59S

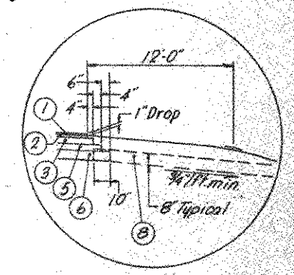
Note: Item 407 Tack Coat applied at a rate of 0.10 gal. per sq. yd. where resurfacing is applied to Exist. pavement



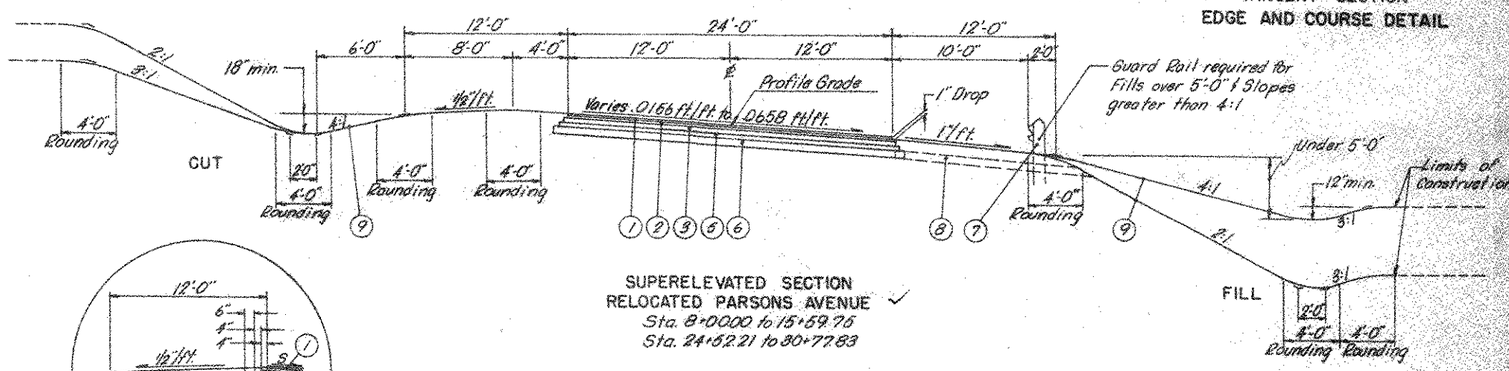
ALUM CREEK DRIVE TURNOUT
Sta. 34+13.59 to 37+50.33
STEGNER STREET
Sta. 0+95.50 to 9+90.00
HOWARD ROAD
Sta. 18+75 to 19+72
LINDSAY ROAD
Sta. 19+00 to 19+98



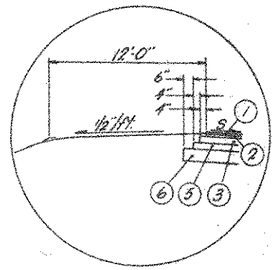
TANGENT SECTION
RELOCATED PARSONS AVENUE
Sta. 15+59.75 to 24+52.21
Sta. 30+77.83 to 32+50.00
Approach Slabs and Bridge
Sta. 18+34.25 to 21+65.75



TANGENT SECTION
EDGE AND COURSE DETAIL



SUPERELEVATED SECTION
RELOCATED PARSONS AVENUE
Sta. 8+00.00 to 15+59.75
Sta. 24+52.21 to 30+77.83



SUPERELEVATED SECTION
HIGH SIDE
EDGE AND COURSE DETAIL
S = .0156 ft./ft. to level

LEGEND

(1)	Item 404	1¼" Concrete Asphalt (70-85)
(2)	Item 402	1¾ Concrete Asphalt (70-85)
(3)	Item 301	4" Bituminous Aggregate Base 702.01(85-100) or 702.09, RT-12
(4)	Item 408	Bituminous Prime Coat, 702.09, RT-2 or RT-3, applied at the rate of 0.4 gal. per Sq. Yd.
(5)	Item 304	4" Aggregate Base
(6)	Item 310	6" Subbase
(7)	Item 606	Guard Rail, Type 4
(8)	Item 605	Aggregate Drains
(9)	Item 659	Seeding and Mulching
(10)	Item 404	1" Asphalt Concrete (85-100)
(11)	Item 402	1" Asphalt Concrete (85-100)
(12)	Item 304	9" Aggregate Base
	Item 407	Tack Coat 702.04, MS-2 or RS-1 or 702.02, RC-70 or RC-250 applied at a rate of 0.10 gal. per sq. yd.

NOTES: The composition of the pavement in the tapers at each end of Relac. Parsons Avenue is the same as the above sections.

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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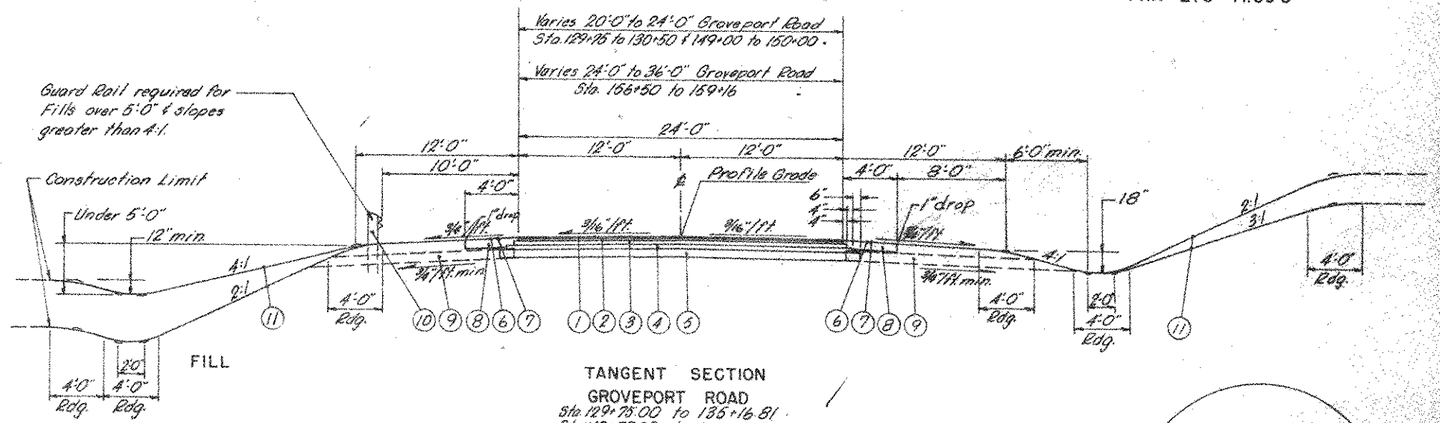
FRANKLIN COUNTY
FRA-270-11.59 S

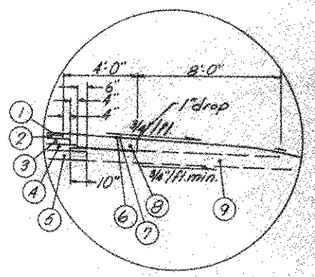
TYPICAL SECTIONS
TYPE 404 on 301



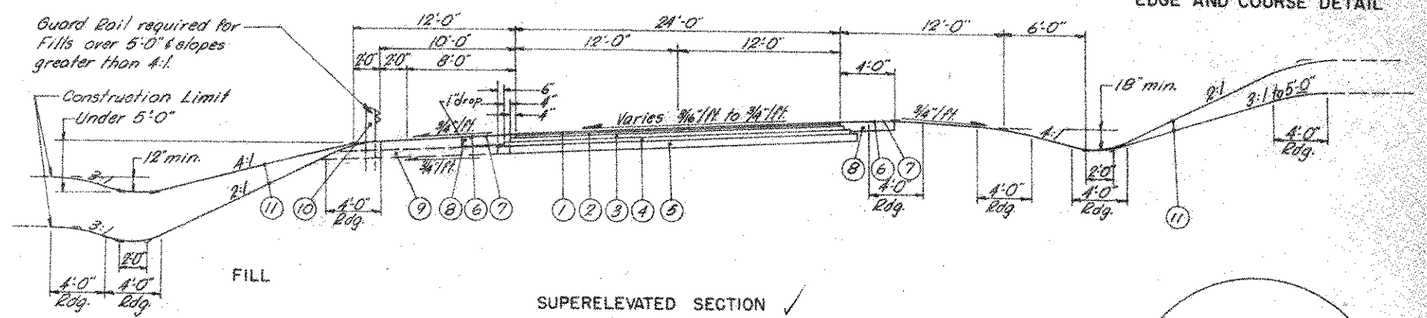
TANGENT SECTION
GROVEPORT ROAD
Sta. 129+75.00 to 135+16.81
Sta. 143+77.08 to 150+00.00
Sta. 156+60.00 to 159+93.19
Approach Slabs and Bridge
Sta. 135+16.81 to 139+43.19

LOCKBOURNE ROAD
Sta. 40+00 to 57+50
Approach Slabs & Bridge
Sta. 48+34.25 to 51+65.75

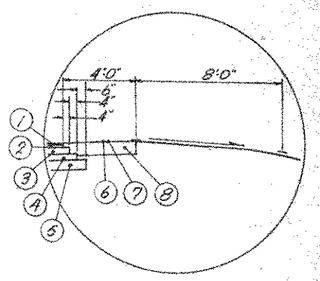
Note: Item 407 Tack Coat applied at a rate of 0.10 gal. per sq. yd. where resurfacing is applied to exist. pavement.



TANGENT SECTION
EDGE AND COURSE DETAIL



SUPERELEVATED SECTION
GROVEPORT ROAD
Sta. 139+43.19 to 143+77.08



SUPERELEVATED SECTION
EDGE AND COURSE DETAIL

LEGEND

①	Item 404	1¼" Asphalt Concrete (70-85)
②	Item 402	1¼" Asphalt Concrete (70-85)
③	Item 301	4" Bituminous Aggregate Base: 702.01(85-100); or 702.09, RT-12
④	Item 304	4" Aggregate Base
⑤	Item 310	6" Subbase
⑥	Item 408	Bituminous Prime Coat, 702.09, RT-2 or RT-3, applied at a rate of 0.40 gal per sq.yd.
⑦	Item 409	Seal Coat, using 0.008 Cu. ½" cover aggregate No. 8 per sq. yd. and 0.30 gal. 702.09, RT-10 or RT-9, or 702.02, MC-800 or MC-3000.
⑧	Item 304	8" Aggregate Base
*⑨	Item 605	Aggregate Drains
⑩	Item 606	Guard Rail, Type A
⑪	Item 659	Seeding and Mulching
	Item 407	Tack Coat 702.04, MS-2 or RS-1 or 702.02, RC-70 or RC-250 applied at a rate of 0.10 gal per sq.yd.

*In lieu of 605.05, the aggregate drains may be constructed before completion of aggregate shoulder.

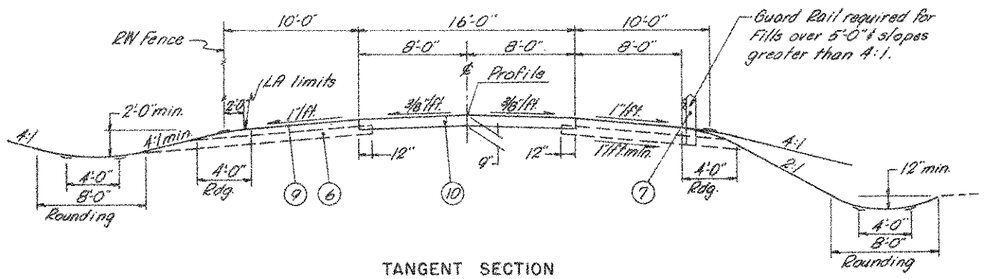
Note: The composition of the pavement in the tapers at each end of Lockbourne Rd. and Groveport Rd. is the same as the above sections.

TYPICAL SECTIONS

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

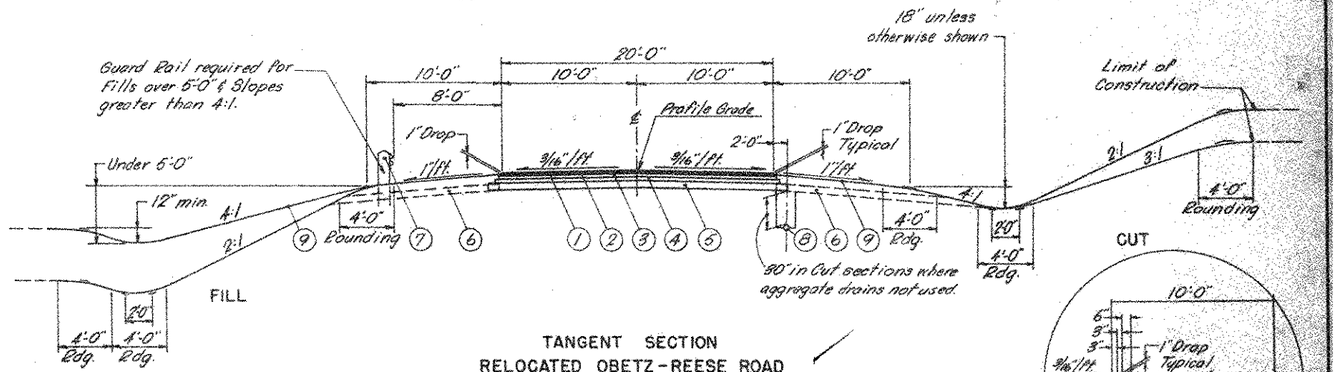
14/332

FRANKLIN COUNTY
FRA-270-11.59S

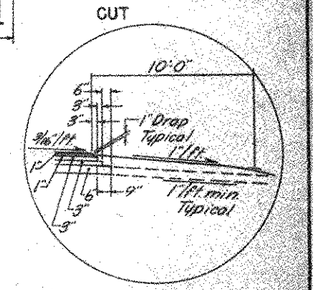


TANGENT SECTION
SAMSON FRONTAGE ROAD
16+03.25 to 17+82.04
28+44.28 to 35+58.84

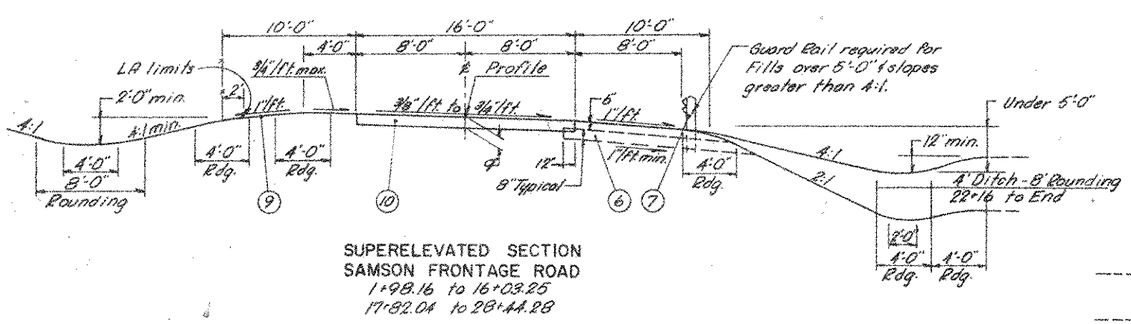
Note: Item 407 Tack Coat applied at a rate of 0.10 gal. per sq. yd. where resurfacing is applied to exist. pavement.



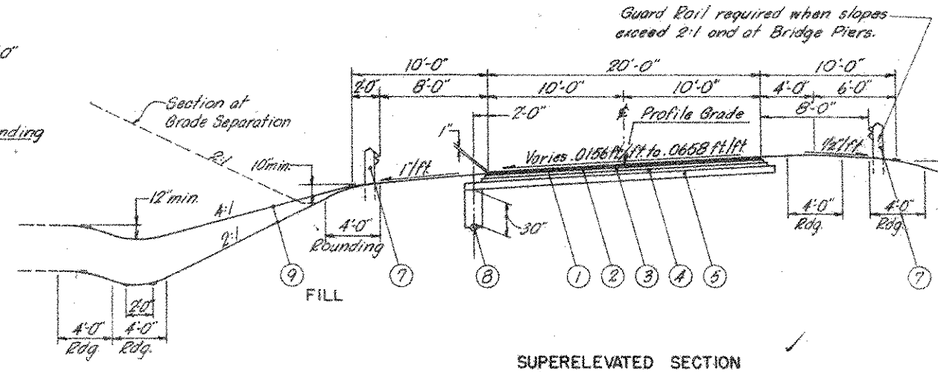
TANGENT SECTION
RELOCATED OBETZ-REESE ROAD
23+00 to 27+00
31+00 to 38+60



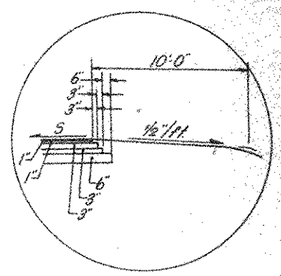
TANGENT SECTION
EDGE AND COURSE DETAIL



SUPERELEVATED SECTION
SAMSON FRONTAGE ROAD
1+98.16 to 16+03.25
17+82.04 to 28+44.28



SUPERELEVATED SECTION
RELOCATED OBETZ-REESE ROAD
27+00 to 31+00



SUPERELEVATED SECTION
EDGE AND COURSE DETAIL
S = Level to 3/16"/ft

LEGEND

①	Item	404	1" Asphalt Concrete (85-100)
②	Item	402	1" Asphalt Concrete (85-100)
③	Item	301	3" Bituminous Aggregate Base ; 702.01 (85-100); or 702.09, RT-12
④	Item	304	3" Aggregate Base
⑤	Item	310	6" Subbase
*⑥	Item	605	Aggregate Drains
⑦	Item	606	Guard Rail, Type 4
⑧	Item	605	6" Pipe Underdrain
⑨	Item	659	Seeding & Mulching
⑩	Item	304	9" Aggregate Base
	Item	407	Tack Coat 702.04, MS-2 or RS-1 or 702.02, RC-70 or RC-250 applied at a rate of 0.10 gal. per sq. yd.

*In lieu of 606.05, the aggregate drains may be constructed before completion of aggregate shoulder

GENERAL NOTES

FIELD OFFICE

The Contractor shall, in accordance with 105.152, provide for the exclusive use of the Department, a suitable field office having a minimum of 500 sq. ft. of floor space. The Contractor shall have a telephone installed and maintained in this field office during the construction of this project. The Contractor shall also provide and install wiring and outlets suitable for connecting electric lights and office equipment in the field office and provide 110 volt alternating current to the office during the entire period of construction of this project. All of the above is included in the lump sum price bid for field office.

ELEVATION DATUM

All elevations are based on U.S.G.S. datum.

HORIZONTAL CONTROL

All horizontal control points are based on the State Plane Coordinate System.

UNDERGROUND UTILITIES

The locations of the underground utilities shown on the plans have been obtained by diligent field checks and searches of available records. It is believed that they are essentially correct, but the State of Ohio makes no guarantees as to their accuracy or completeness.

UTILITY OWNERSHIP

Ohio Bell Telephone Company
111 N. Fourth Street, 1st Basement
Columbus, Ohio 43215
c/o Mr. William L. Walter

Ohio Fuel Gas Company
99 N. Front Street
Columbus, Ohio 43215
c/o Mr. J. F. Nolan

Columbus & Southern Ohio Electric Co.
215 N. Front Street
Columbus, Ohio 43215
c/o Mr. W. R. Henry

Columbia Gas of Ohio, Inc.
920 W. Goodale Boulevard
Columbus, Ohio 43212
c/o Mr. Dwight L. Poulson

Village of Obetz
City Building
Obetz, Ohio 43207
c/o Mayor Ronald E. Perry

CENTERLINE REFERENCE MONUMENTS, AS PER PLAN

Monuments shall be constructed of Class "C" Concrete, cast-in-place in a circular hole eight (8) inches in diameter and forty-four (44) inches in depth. Top of concrete shall be finished at a depth of two (2) inches below ground level and the upper six (6) inch portion of the concrete shall be formed. One-half (1/2) inch steel rods six (6) inches long shall be embedded in the wet concrete, as directed by the Engineer, to mark the centerline and station.

ROUNDING OF CORNERS SHOWN ON CROSS SECTIONS

The rounded corners shown on Standard Drawing MC-1, as modified by the typical sections, apply to all cross sections, even though otherwise shown on these plans.

CONSTRUCTION LAYOUT STAKES

See note in proposal describing the work included in this lump sum pay item.

PAVEMENT REMOVAL OUTSIDE NORMAL CONSTRUCTION LIMITS

After the existing pavement as indicated on the plans has been removed, the old roadway shall be plowed, harrowed, and dragged to a smooth grade, the old ditches filled, and the entire area sloped to drain and left in a neat condition ready for seeding. Payment for this work shall be included in the unit price bid for pavement removal, Item 202. Seeding shall be measured and paid for in accordance with Item 659 Seeding and Mulching.

SUPERELEVATION

Superelevated curves shall be built without crown. The crown shall be worked out of the pavement in the portion between the beginning of the transition and the point where the superelevation equals twice the crown.

CONTRACTION AND EXPANSION JOINTS

Although specific locations of certain expansion and contraction joints have been detailed on this plan, no waiver of the specifications is intended. Provision of expansion joints at all major structures and the maximum spacing between contraction joints shall in all cases be in accordance with Standard Construction Drawing BP-4 and the specifications.

ITEM 203 PROOF ROLLING

An estimated quantity for this item has been provided in the general summary for use in proof rolling of subgrade for the mainline and ramp pavements, and for paved shoulders, in accordance with Supplemental Specification 801. I Section:145 hours. IG Section: 65 hours.

ITEM 203 - GRANULAR EMBANKMENT BASE

General. - The granular embankment base shall consist of an eighteen (18) inch layer of natural or synthetic mineral aggregate earth materials placed as fill between Stations 646+00 to 648+25 and 649+25 to 653+00, or as directed by the Engineer. *Where end dumping is permitted, normal clearing and grubbing shall be performed but the requirements of 201.04 for scalping shall be waived.*

Material. - Material for the granular embankment base shall consist of end-dumped granular material meeting the requirements of 203.02, modified so as at least 85 per cent by weight of the grains or particles are retained on a No. 200 sieve.

Construction Methods. - Before placing the granular material all surface irregularities shall be graded off to provide a level working area. The granular material shall be placed by the method of end-dumping to a uniform compacted depth of eighteen (18) inches. Embankment above this layer shall be constructed in accordance with the provisions of 203 of the Specifications, with the further provision that the total thickness of embankment placed in seven (7) calendar days shall not exceed three and one-half (3.5) feet. All work on the structure abutments shall be deferred for a period of ninety (90) calendar days following completion of the embankments to grade. This requirement is in addition to other limits specified elsewhere in the plans and specifications.

REMOVAL OF TREES AND STUMPS

All trees and stumps lying within the construction limits of this project shall be removed under the lump sum price bid for Item 201, Clearing and Grubbing, except that those trees and stumps for which protection and preservation work is indicated elsewhere in these plans shall not be removed.

The following is an approximate estimate of the number of trees and stumps to be removed:

	I Section		IG Section	
Sizes	No. Trees	No. Stumps	No. Trees	No. Stumps
18 Inch	619	27	78	6
30 Inch	97	8	8	1
48 Inch	13	2	3	0

The above estimate is approximate and the State of Ohio reserves the right to order the removal of additional trees or stumps outside of the limits of construction but within the right-of-way and/or easement lines. Payment for the removal of these additional trees or stumps shall be included in the lump sum price bid for Item 201, Clearing and Grubbing.

ESTIMATED QUANTITIES

Specific locations and usage of estimated quantities set up on this plan to be used "as directed by the Engineer" shall be made a matter of record by incorporation into the final change order governing completion of this project. These quantities shall not be ordered until specifically authorized by the Engineer.

GENERAL NOTES

ITEM SPECIAL, CLEANING AND DISPOSING OF SEPTIC TANK

This item shall include cleaning, backfilling, and removing of all or any portion of existing septic tanks as required.

All septic tanks lying within the proposed right-of-way limits shall be cleaned and emptied. Material removed from these tanks shall be classified as unsuitable and disposed of outside the right-of-way or easement lines.

When the septic tanks are located above the finished pavement or ground lines, they shall be entirely removed and disposed of in accordance with Item 202.

When the tanks are located below the finished pavement or ground lines, the tops of the tanks shall be removed, and the walls shall be removed to a depth of 3 feet below the finished subgrade or ground lines. The removed material shall be disposed of as explained above. The tanks shall be backfilled with suitable soil or granular material in accordance with Item 202.02.

This item shall be paid for at the unit price bid per each for "Item Special, Cleaning and Disposing of Septic Tank", which price and payment shall constitute full compensation for cleaning, removing and disposing of excess materials, backfilling, and for all labor, tools, equipment, and incidentals necessary to complete this item including incidental excavation.

ITEM SPECIAL - DRILLED WELL ABANDONED

The existing concrete or stone slab well cover and pumping equipment shall be removed and disposed of. The casing shall be cut off at least two feet below the proposed finished grade outside proposed pavement areas or at least two feet below the proposed subgrade elevation inside proposed pavement areas and capped with Class "E" Concrete or a standard threaded pipe cap. The unit price bid for each "Drilled Well Abandoned" shall include payment for all labor, tools, materials and incidentals necessary to complete this item.

REMOVAL OF EXISTING PIPE

The removal of all existing pipe drains which would normally be removed in various excavation items shall be included for payment in the unit prices bid for the respective excavation items, unless otherwise itemized in the plans.

CONNECTIONS TO EXISTING PIPE

At places where the plans provide for proposed pipe to be connected to existing pipe, it shall be the responsibility of the Contractor to locate the existing pipe both as to line and grade before he starts to lay the proposed pipe. The cost of this operation shall be included in the unit price bid for the pertinent 603 conduit item.

ITEM 605 AGGREGATE DRAINS

Aggregate drains shall be placed at fifty (50) foot intervals on each side of normal crowned sections and at twenty-five (25) foot intervals on the low side only of superelevated sections, except where Item 605 Pipe Underdrains, have been provided.

An aggregate drain shall be placed at the low point of each sag vertical curve and at pavement joints where new subbase drains toward the joint. These drains shall extend full roadway width.

FARM DRAINS

All farm drains which are encountered during construction shall be provided with unobstructed outlets under the direction of the Engineer. Existing collectors which are located below the roadway ditch elevations and which cross the roadway shall be replaced within the right-of-way limits by Item 603 Conduit, Type B with Class B Bedding, one commercial size larger than the existing conduit.

Existing collectors and isolated farm drains which are encountered above the elevation of the roadway ditches shall be outletted into the roadway ditch by 603 Type F Conduit. The optimum outlet elevation shall be, if possible, one foot above the flowline elevation of the ditch. Lateral field tiles which cross the roadway shall be intercepted by 603 Type E Conduit and carried in a longitudinal direction to an adequate outlet or roadway crossing.

The location, type, size and grade of required replacements shall be determined by the Engineer during construction and payment shall be made on final measurements.

The following estimated quantities have been included in the General Summary for the work noted above:

Item 603, 6" Conduit, Type E	100 L.F.
Item 603, 8" Conduit, Type E	100 L.F.
Item 603, 12" Conduit, Type E	100 L.F.
Item 603, 8" Conduit, Type F	20 L.F.
Item 603, 12" Conduit, Type F	20 L.F.
Item 603, 8" Conduit, Type B, with Class B Bedding	400 L.F.
Item 603, 12" Conduit, Type B, with Class B Bedding	400 L.F.
Item 601, Crushed Aggregate Slope Protection	10 S.Y.
Item 604, No. 2-2-B Catch Basin, Modified as per plan	3 Each

All necessary Pipe Specials shall be included for payment in the pertinent conduit item.

None of the above materials shall be ordered by the Contractor until requested by the Engineer.

MANHOLES, INLETS, AND CATCH BASINS

It shall be the Contractor's responsibility to construct the inlets and catch basins so that they are oriented correctly and conform in elevation with the ditches and gutters that they are intended to serve.

2-2-B CATCH BASINS, MODIFIED AS PER PLAN

All 2-2-B Catch Basins, modified as per plan, shall be modified by the use of a 3/8" solid steel plate in place of the grate. Catch Basins will be approximately four feet deep.

ITEM 604 STANDARD NO. 2 MANHOLE, MODIFIED AS PER PLAN

All Standard No. 2 Manholes, modified as per plan, shall be made watertight by plastering the outside with cement mortar 1/2" thick. Mortar used shall be composed of one part Portland cement, five parts sand, and one part slaked lime putty. The cost of plastering shall be included in the unit price bid for Manholes. All connections for lateral sewers and all plugs will be included in this item.

LEAKAGE TEST-SANITARY SEWERS ONLY

The Contractor shall be required to conduct tests to determine the watertightness of the sewer and manholes when the line is in place. The tests shall be observed by the Engineer and the Contractor shall furnish all labor, equipment, and materials required in connection therewith including the necessary water. The O.D.H. specifications 603.06 shall be used as a standard for this test. (See note in Proposal).

TREATED SANITARY FLOW INTO COUNTY HIGHWAY DRAINAGE SYSTEMS (SIDE ROADS ONLY)

Treated sanitary flow may be discharged into the county highway drainage system provided the owner has secured the approval of the local health authorities.

In each case where a sanitary connection is to be made into a highway drainage conduit, it shall be provided with an inspection well. This well shall consist of a connecting tee or wye at a point one (1) foot inside the right-of-way and a six (6) inch riser pipe 706.0155 carried to finished grade, encased in a minimum of four (4) inches of Class "E" Concrete. A removable cast iron cover, "Neenah" R-4055 series or Kramer Bros. K-681 (solid) or approved equal shall be placed in the upper open end.

The unit price bid for Item 604, "Inspection Well" shall include payment for all labor, tools, materials and incidentals necessary to complete this item.

The following estimated quantities have been included in the general summary, for use as directed by the Engineer, in making the above described connections:

Item 604, Inspection Well - 2 Each
Item 603, 6" Conduit, Type C, with Class B Bedding - 100 Lin. Ft.

All necessary Pipe Specials shall be included for payment in the pertinent conduit item.
See Sheet No. 147 for Inspection Well Details.

SANITARY FLOW INTO HIGHWAY DRAINAGE SYSTEMS (1R-270)

This plan makes no provision for connecting, nor shall the Engineer or Contractor connect, any existing or new drainage into the interstate highway drainage system or the sewer or ditches in the Village of Obetz when such drains carry flow from any plumbing fixtures including floor drains and sink drains, drains from livestock lots or barns, or polluted water of any kind.

Existing pipe carrying flow which comes within the category outlined above shall be plugged with Class E concrete at the right-of-way line. Payment for the said plugging shall be included in the unit price bid for Item 203 Excavation.

MAINTENANCE OF SEWER FLOWS

The Contractor shall conduct his operations so as to maintain at all times sewer flows through existing facilities to remain in place and through existing facilities to be replaced until new facilities are completed and placed into use.

Payment for any additional costs involved in maintaining these flows by pumping or any other means approved by the Engineer shall be included in the unit prices bid for the respective items of 603 Conduit.

GENERAL NOTES

EROSION CONTROL

The Engineer may order additional quantities to be placed in ditches that may have been eroded during construction or non-perform or adjust quantities in locations where field conditions would indicate this to be desirable.

ITEM 203 - EMBANKMENT

If granular material is used for the construction of embankments with plan side slopes steeper than 3:1, the outer 1 foot measured normal to the slope shall be made up of soil as defined by ~~the~~ Specification 203.02 in order to provide a suitable non-erosive slope covering.

ITEM 203 - SHOULDER SLOPE AND DITCH PREPARATION

In conjunction with the operations set forth under this item, the following operation shall be performed in all areas:

After the final grade has been established and prior to the application of the topsoil, the soil shall be loosened to a minimum depth of two (2) inches. Upon completion of this item, the resulting loose measure shall be a minimum of four (4) inches.

Special attention should be given to the crown of the slopes during this operation.

ITEM 659 - FERTILIZER

Fertilizer with the analysis of 18-46-0 shall be uniformally applied at the rate of fifteen (15) pounds per 1000 sq. ft. over the entire area to be seeded or sodded and worked into a depth of not less than three (3) inches.

SEEDING AND PROTECTING

Quantities for seeding are calculated for the soil areas between the right-of-way fence lines and within the work limits for areas outside the right-of-way lines covered by channel and temporary easements.

On all the crossroads the seeding quantities are calculated for soil areas between lines ten (10) feet outside the work limits or to the right-of-way line if such a line is less than ten (10) feet from work limits.

ITEM 659 - SEEDING

Adjacent to all residential areas:

45% Pennlawn Fescue (Festuca rubra 'Pennlawn')
40% Ky. Bluegrass (Poa pratensis)
10% Red Top (Agrostis alba)
5% White Clover (Trifolium repens)

All slopes 2:1 or steeper:

65% Ky. 31 Fescue (Festuca arundinacea Ky. 31)
20% Ky. Bluegrass (Poa pratensis)
15% Hairy Vetch (Vicia vellosa)

All other areas to be seeded:

50% Pennlawn Fescue (Festuca rubra 'Pennlawn')
35% Ky. Bluegrass (Poa pratensis)
10% Alsike Clover (Trifolium hybridum)
5% Red Top (Agrostis alba)

When asphalt is used as a tie, it shall be applied at the rate of 300 gallons per acre or 6.88 gallons per 1000 sq. ft. in lieu of the rate set forth in Method 3.

No asphalt shall be applied when the temperature is below 40° F.

When straw is used as a mulch it shall be applied at such a rate as to insure a minimum two (2) inch depth loose measure, approximately two (2) tons per acre.

The actual operation of seeding shall not be performed between the dates of September 15 and February 14.

SPECIAL BERM & SLOPE PROTECTION

For details and notes see Std. Drawing MC-7.

SPECIAL SEEDING PREPARATION AREAS

The reference in the first paragraph of 659.09 to preparation of the seed bed in front of residences, etc., shall on this project be considered to be particularly applicable to all areas listed in 659.09 in addition to the following areas:

Rel. Alum Creek Drive	35+50 to	37+00 L
	67+00 to	69+75 L & R
	69+75 to	74+12 L
Alum Creek Drive	28+00 to	29+00 R
Rel. Parsons Avenue	8+00 to	8+90 L
	25+00 to	26+10 L
	27+50 to	30+10 R
	31+10 to	31+90 L
Lockbourne Road	41+80 to	43+00 L
	43+75 to	45+60 R
	51+75 to	52+75 R
	52+00 to	53+30 L
	56+80 to	58+00 R
Groveport Road	131+00 to	134+25 L
Stagner Street	4+00 to	5+00 L & R
	8+50 to	9+80 L

WATER LINE RELOCATION

WATER LINE SPECIFICATIONS

All water line relocations shall be made in accordance with Department of Highway Supplemental Specifications 814 entitled Item 814 Water Mains and Service Branches.

This specification is modified by the following special provisions which consist of these notes. In all cases of conflict with the Supplemental Specifications 814 these notes shall govern. The figure in parenthesis in these notes refers to the section in the specifications which is being modified or qualified.

MATERIALS (814.02)

Ductile iron pipe with cement mortar lining shall be required throughout the Item 814 New Water Mains.

NOTIFICATION (814.04)

The contractor shall also notify the Village of Obetz, the owner, before beginning work under this specification.

LAYING PIPE (814.06)

Reaction backing shall be provided as shown on the plans and as noted in the specifications. Backing shall be constructed as shown on the plans and as noted in the specifications. The cost of labor and materials included in the cost of the item being supported.

HYDROSTATIC TESTING (814.07)

The hydrostatic test shall be made as specified under alternate "A" at 150 psi unless otherwise waived or restricted by the Village of Obetz.

NEW WATER MAIN (814.10)

Ductile iron pipe and fittings shall be used.

SERVICE BRANCHES (814.16 thru 814.19)

The cost of labor and materials to comply with these specific items are not included in this contract and are the responsibility of the Village of Obetz. These specifications and those specified by the Village are to be used in making the service connections.

SEQUENCE OF CONSTRUCTION - WATER LINES & HYDRANTS

The contractor will be responsible in making the connection to the existing system in the time allotted. The time and limits of the work required to make these connections shall be determined by the Village of Obetz and subject to approval of the Engineer. Replacement of hydrants and the water line will be coordinated with the Village of Obetz in order for the Village to maintain its services and protection to the public.

GENERAL NOTES

MAINTENANCE OF TRAFFIC ITEMS

The following quantities have been included in the General Summary for use in maintaining private drives, ingress and egress, local traffic, and intersections as directed by the Engineer.

Item 616	Calcium Chloride for Maintaining Traffic	- 5 tons
Item 410	Traffic Compacted Surface Course, Type A or B	- 150 c.y.
Item 404	Asphalt Concrete or Bituminous Pre-Mixed Surface for Maintaining Traffic	- 25 c.y.

DUST CONTROL

A quantity of calcium chloride and water is provided for use for dust control as directed by the Engineer.

Item 616	Calcium Chloride	- 25 tons
Item 616	Water	- 100 M. Gal.

DRIVEWAY COMPOSITION

Residence drive aprons shall be paved with two 1" courses of Item 404 Asphalt Concrete (85-100) on 5" of Item 304 Aggregate Base.

Residence drives beyond the apron shall be paved with 8" of 304 if the existing drive is of stone, or with two 1" courses of 404 on 5" of 304 if the existing drive is asphalt. Item 408, Bituminous Prime Coat, shall be applied to base if asphalt concrete is required.

Field drives shall be paved with 6" of Item 304.

All field and residence drives shall be 12' wide, Type 2, as shown on the Standard Construction Drawing unless otherwise shown on the plans.

MAIL BOX TURNOUTS

The following quantities are included in the plan for construction of mailbox turnouts. Where feasible mail box turnouts shall be combined with driveways. Mail box turnouts shall be paved with two 1" courses of Item 404 on 5" of Item 304. Location of turnouts will be verified by the Engineer. An approximate estimate of quantities for these turnouts are:

Item 404	Asphalt Concrete (85-100)	- 21 c.y.
Item 304	Aggregate Base	- 52 c.y.
Item 408	Bituminous Prime Coat	- 8 gal.

PART WIDTH CONSTRUCTION

Because of the necessity of building (portions of) this project under traffic and constructing the pavement part at a time, extreme care shall be taken to prevent the construction of a butt joint on centerline in the 304 and 310 courses.

This shall be accomplished by building the 304 and 310 courses, placed with the first portion of the pavement built, at least eighteen (18) inches beyond the centerline and by surfacing no closer than eighteen (18) inches to this edge of the above courses. When the second portion of the pavement is built, at least twelve (12) inches of these projecting courses shall be broken down and thoroughly keyed in with the newly placed corresponding courses in the second portion of the pavement built. Payment for this operation shall be included in the unit prices bid for the pertinent pavement items.

Part width construction shall be permitted at the following locations:

Rel. Alum Creek Drive	68+00 to 72+00
Groveport Road	147+00 to 150+00
Groveport Road	156+00 to 159+55
Howard Road	18+75 to 19+70
Lindsay Road	19+00 to 20+00

TRENCH FOR WIDENING

Trench excavation for base widening shall be performed only on one side of the pavement at a time. The open trench shall be adequately maintained and protected with temporary guide markers or barricades at all times. Placement of proposed subbase and base material shall follow as closely as possible behind the excavation operations. The length of widening trench which is open at any one time shall be held to a minimum and shall at all times be subject to approval of the Engineer.

ITEM 310 SUBBASE, GRADING A or B, AS PER PLAN

Material for this item shall meet the requirements of grading A or B of 310.02 except that for either grading, no more than 10% of the material shall pass a No. 200 sieve after all operations of placing and compacting have been completed.

USE OF TEMPORARY PAVEMENT

The limits and duration of temporary roadways shall be held to an absolute minimum, and in all cases shall be subject to the approval of the Engineer.

ITEM 615 - TEMPORARY PAVEMENT

Class B, Temporary Pavement, 20' wide, shall be used for the temporary pavement unless shown otherwise on the plans.

TEMPORARY GUARD RAIL

Temporary guard rail shall be required as noted on Item 615 and noted on the plans on Relocated Parsons Avenue and Groveport Road. Payment for providing, erecting, maintaining, removing and disposing of the guard rail shall be included in the Item 615, Temporary Roads and Pavements.

COOPERATION - TRAFFIC CONTROL DEVICES

The Contractor is hereby advised that a separate contract may be awarded for the furnishing and erecting of certain traffic control devices within the work limits of this project prior to completion of construction operations.

The Contractor shall cooperate with the separate Contractor to arrange a suitable work schedule, subject to the approval of the Engineer, to permit the separate Contractor to work and operate necessary equipment within the work limits to carry out the provisions of his contract. The Engineer shall notify the Contractor a minimum of thirty (30) days prior to any scheduled work by the separate Contractor.

Each Contractor shall be held responsible for any damage by him, or his agents, to the work performed by the other Contractor.

Compensation for the above cooperation, shall be incidental to the various pay items included within this construction project.

GENERAL NOTES

MAINTENANCE OF TRAFFIC PLAN

RELOCATED ALUM CREEK DRIVE

Two-way traffic shall be maintained at all times between Station 27+00 to Station 74+50 by using either the existing pavement, the proposed pavement or the temporary pavement, except from Station 68+00 to Station 73+00. At this point temporary road using 410 aggregate and stabilized with Item 616 calcium chloride may be used for a period not to exceed 15 calendar days.

The traffic signal at Alum Creek Drive and Groveport Road shall remain in operation at all times.

RELOCATED PARSONS AVENUE

Two-way traffic shall be maintained at all times on the existing pavement, the proposed pavement, and/or the temporary pavement except for a period of time not to exceed 30 consecutive calendar days. Parsons Avenue may be closed to traffic during the construction of the connections from relocated Parsons Avenue to Proposed Parsons Avenue.

LOCKBOURNE ROAD

Two-way traffic shall be maintained at all times by use of either the existing pavement, the proposed pavement, or the temporary run-a-round except that one-way traffic will be permitted for minimum periods of time consistent with the requirements of the specifications for protection of the completed asphalt concrete courses.

OBETZ-REESE ROAD

Two-way traffic shall be maintained at all times on either existing roadway or the proposed pavement except for a period not to exceed 120 consecutive calendar days during the construction of Obetz-Reese Road.

GROVEPORT ROAD

Two-way traffic shall be maintained at all times between Station 127+00 and Station 153+00 by using either the existing pavement, the proposed pavement, or the temporary roads.

Two-way traffic shall be maintained at all times between Station 155+00 to Station 160+00 by use of either the existing pavement, the proposed pavement or temporary roadways surfaced 410 aggregate and stabilized with ITEM 616 calcium chloride. The aggregate roadways shall not be in use for a period of time in excess of 15 consecutive calendar days.

STEGNER ROAD

Stegner Road shall not be closed until Stegner Street is opened to traffic.

HOWARD ROAD AND LINDSAY ROAD

Two-way traffic shall be maintained at all times on the existing pavement or the proposed pavement except for a period not to exceed 15 consecutive calendar days for each road. One-way traffic on temporary roadways surfaced with 410 aggregate and stablilzed with Item 616 calcium chloride will be permitted during the construction of the approaches.

LIGHTS AND SIGNS AT ADJACENT ROAD INTERSECTIONS

The Contractor shall, in addition to the general requirements of Item 614 on this project perform the following:

Provide, erect and maintain standard 48" x 30" size "Road Closed" signs, sign supports, and lights at the following locations during the periods in which the affected roads are closed to traffic:

Parsons Avenue	Sta. 6+00 Rt; 33+00 Lt; Intersections of Parsons Ave. with Obetz Road (East) Lt; and Rathmell Road, Rt;
Obetz-Reese Road	Sta. 21+00 Rt; 38+55 Lt; Reese N. Corp. Line (at 11+20 Rt.)

Provide, erect, and maintain standard 48" x 30" size "Road Construction Traffic Maintained" signs, supports, and lights at the following locations during the periods in which the affected roads are being constructed.

Relocated Alum Creek	Sta. 31+00 Rt; 74+10 Lt;
Groveport Road	Sta.127+90 Rt;152+02 Lt; 10+50 Lt;
Rel. Obetz-Reese Rd.	Sta. 21+00 Rt; 38+55 Lt; (except as noted above)
Howard Road	Sta. 18+50 Rt;
Lindsay Road	Sta. 19+00 Rt;

Sign supports and lights for signs as noted shall be as detailed in the "Ohio Manual of Uniform Traffic Control Devices".

Payment for providing, erecting, maintaining, and removing lights, signs, and sign supports shall be included in the lump sum price bid for "Item 614 Maintaining Traffic".

FEDERAL AID CONSTRUCTION IDENTIFICATION SIGNS

The Contractor shall furnish, erect, maintain, and subsequently remove Federal Aid Construction Identification signs at each of the following locations and/or as shown on the Schematic Plan:

Relocated Alum Creek Drive Sta. 37+75 Rt; 72+10 Lt

Sign details shall be as specified on Standard Drawings FACI-1, Code N-55 (1)-120 (2) and the signs shall be erected in accordance with Standard Drawing FACI-2. Additional requirements shall be in accordance with notes in the proposal.

LIGHT STANDARD RELOCATION AND ADJUSTMENT

In compliance with 105.06 of the O.D.H. Specification adjustment and relocation of poles and controls shall be the responsibility of the owner. The Department will notify the utility of the necessary adjustment and limits of construction.

SCHEDULING OF SIGNAL REVISIONS FOR THE INTERSECTION OF GROVEPORT RD. AND ALUM CREEK DRIVE.

The revision of the existing wood signal pole, pole mounted controller and appurtenances shall be relocated from approx. Sta 35+10, offset 58' left to Sta. 35+02, offset 68' left on Alum Creek Drive.

The work of relocating the signal pole and controller shall be accomplished within a seven (7) day period and prior to start of widening work within subject intersection.

The only exception to the above statements, shall be adjustments of signal head locations due to stage construction within the intersection.

The contractor shall upon approval of the Engineer adjust the traffic signal heads to conform with the lane use of the pavement, for any operation lasting for one (1) week or longer.

Upon completion of the stage construction phase, the contractor shall within 24 hours return the signal to the next operation or back to normal operations.

The cost of all adjustment of signal heads due to stage construction and temporary traffic operation, shall be included in the lump sum price bid for "Item 614 Maintenance of Traffic"

All work on the signal installation affecting the signal operation shall be limited to the hours between 9:00 A.M. and 4:00 P.M. Monday through Friday and the daylight hours of Saturdays and Sundays.

During the relocation of the signal controller, conduit and wiring for the signal, the operation of the signal may be stopped one (1) day, for the total of six (6) hours between the hours of 9:00 A.M. and 4:00 P.M.

During the period the signal is out of operation, all signal heads shall be hooded and the following temporary traffic signs shall be in place. (See Sht 19A)

1) All approaches shall have one (1) each 48" "Stop" sign mounted on a 8 lb. beam, imbedded 6'-0", with a vertical clearance of 7'-0", 6'-0" horizontal clearance from right edge of pavement at the stop bar.
2) The East, West and North approches shall have one (1) each 48" "Stop Ahead" sign mounted as indicated above except it shall be placed a minimum of 500 ft. in advance of the stop bar.
3) The South approch shall have two (2) 48" "Stop Ahead" signs mounted as indicated above except that the two (2) signs shall be placed right and left of the pavement at a minimum distance of 800 ft. from the stop bar.

Payment for providing, erecting, maintaining and removing signs, supports and hooding shall be included in the lump sum price bid for "Item 614 Maintenance of Traffic".

The cost revisions of traffic signal poles and controller with appurtenances are listed below.

625 RELOCATE EXISTING WOOD SIGNAL POLE AND APPURTENANCES AS PER PLAN.

This item shall consist of relocation of the existing wood traffic signal pole, guide wire, anchor, signal messenger cable and wire, including furnishing and installing of any additional material required to accomplish the relocation at subject intersection.

The work shall include all labor, materials, tools, hardware and equipment necessary to perform the required items of work.

The basis of payment shall be for "Relocate existing wood signal pole and appurtenance as per plan"; at the contract lump sum bid.

625 RELOCATE EXISTING TRAFFIC CONTROLLER, CABINET AND APPURTENANCES AS PER PLAN.

This item of work shall consist of the relocation of the existing traffic controller, cabinet, conduit, cable and other necessary appurtenances including furnishing and installing of any additional material required to accomplish the relocation of the above items at subject intersection.

The work shall include all labor, materials, tools, hardware and equipment necessary to perform the required items of work.

The basis of payment shall be for "Relocate existing traffic signal controller, cabinet and appurtances, as per plan", at the contract lump sum bid.

625 SIGNAL MATERIALS

The cable, conduit, connectors and other appurtenances that may be needed for the revisions of subject signal installation shall be of the same type and quality as the existing installations.

FED. NO. DIVISION	STATE	PROJECT	
2	OHIO		

FRA-270-1159S

19A 332

STOP AHEAD
W-45-48
53+25

STOP
R-1-48
58+75

RELOCATE EXISTING POLE & CONTROLLER
FROM STA. 35+10 (58± OFFSET) TO
STA. 35+02 (68' OFFSET)

EXISTING EDGE OF PAVEMENT

STOP
R-1-48
36+05

N

STOP AHEAD
W-45-48
41+20

ALUM CREEK DRIVE

30 31 32 33 34 35 36 37 38 39 40 41 42

ALUM CREEK DRIVE

EDGE OF EXISTING PAVEMENT

RAMP "V"

26+40
STOP AHEAD
W-45-48

34+60
STOP
R-1-48

10+40
EXISTING POLE

STOP
R-1-48

12' GROVEPORT RD.

15+60
STOP AHEAD
W-45-48

INTERIM TRAFFIC CONTROL, ALUM CREEK DRIVE & GROVEPORT RD.

FED. RD. DIVISION	STATE	PROJECT
2	OHIO	

FRANKLIN COUNTY
FRA-270-11.59S

GENERAL SUMMARY

ITEM	SHEET NUMBER																																								
	15	18	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	51	57	66	71	72	73	74	75	89	90	99	100	107	114	116	332
201	Lump																																								
202																											Lump					Lump				Lump					
202																											485		188			715	330		30				860		
202																*15																									
202																											3		2			5	3			2			2		
202																													210												
202																													100												
203			1,229,948 *17892																																						
203			*1,321,550																																						
203				209,201 *57,578																																					
203			4313 *7076																																						
203	145 *65																																								
404		25																																							
410		150																															111							115	
604			67 *13																																						
606						200	100				200		*2000	*1894	*2000	*1109.5	*2090.5	23 *206	278	325	375	312.5	1087.5	800	175	1300		25		350	425	125			1887.5	1625		950	937.5		
606														*200		*100	*100			200																					
606																													100												
606																																			22	73					
607																																									41366
615																													433					248			1444			5417	
615																																	Lump							Lump	
616		100																																							
616		30																															0.33							0.35	
Spec.																			1												2	3				1					
Spec.						1							*1						1										1		2	2				1					
Spec.																			Lump																						
Spec.			*9579																																						
659			652,350 *175,381																																						
659			5930 *1595																																						
660														*137		*161														131	100				90	175			75		
660					50		83	146	153	267		300	*200	*4	*134		*4		134				200	250	356	711			449						69				77		
667					125	125	125		139	111	125	242	*242	*250	*167	*125	*242	167 *126	263	125	250	126	125				167		45	429											
202																																									
202																																									
202																																									

ITEM	QUANTITY CODE 7221 ▲ STATE	I SECTION	IG * SECTION	TOTAL	UNIT	DESCRIPTION
						ROADWAY
201		Lump	Lump	Lump	Lump	Clearing and grubbing
202		Lump		Lump	Lump	Existing structures removed
202		2603		2603	L.F.	Pipe removed 24" and under
202			15	15	L.F.	Pipe removed over 24"
202		17		17	Each	Catch basins and/or inlets removed
202		210		210	L.F.	Existing curb removed and disposed of
202		100		100	L.F.	Guard rail removed for re-use
203		1,229,948	17892	1,247,840	C.Y.	Excavation including embankment construction
203			1,321,550	1,321,550	C.Y.	Borrow
203		209,201	57,578	266,779	S.Y.	Subgrade preparation
203		4313	7076	11389	M.G.	Water
203		145	65	210	Hour	Proof rolling
404		25		25	C.Y.	Asphalt concrete or an appoved bituminous pre-mixed surface course for maintaining traffic
410		376		376	C.Y.	Traffic compacted surface, Type A or B
604		67	13	80	Each	Center line reference monuments, as per plan
606		11,450	9900	21350	L.F.	Guard rail, Type 4
606		200	400	600	L.F.	Guard rail, ~~Type 4~~ barrier design
606		100		100	L.F.	Guard rail rebuilt
606		95		95	Each	Guard posts
607	1100	28813	11453	41366	L.F.	Fence, Type 47
615		10542		10542	S.Y.	Class B, Temporary pavement
615		Lump		Lump	Lump	Temporary Roads
616		100		100	M.G.	Water
616		30.68		30.68	Tons	Calcium chloride
Spec		7		7	Each	Cleaning and disposing of septic tank
Spec		8	1	9	Each	Drilled well abandoned
Spec.		Lump		Lump	Lump	Removal and Disposal of Existing Underground Storage Tanks
203			9579	9579	C.Y.	Granular embankment base
		Y005				
659		652,350	175,381	827,731	S.Y.	Seeding and mulching, as per plan
659		5930	1595	7525	Tons	Comercial fertilizer (18-46-0)
660		571	298	869	S.Y.	Sodding for special berm and slope protection, as per plan
660		3245	342	3587	S.Y.	Sodding
667		2688	1151	3839	S.Y.	Jute matting

I	IG	ITEM	TOTAL	UNIT	CODE 7221 — REMOVAL OF BUILDINGS
Lump		202	Lump	Lump	Parcel No. 126 WL, Removal of 2-story frame residence, 1-car frame garage, 4 frame sheds.
Lump		202	Lump	Lump	Parcel No. 129 WL, Removal of 1½-story frame residence, 3 frame sheds
Lump		202	Lump	Lump	Parcel No. 130 WL, Removal of 1½-story brick residence, 2-car frame garage, 6 frame sheds.

FED. RD. DIVISION	STATE	PROJECT
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GENERAL SUMMARY

FRANKLIN COUNTY
FRA-270-11.59S

ITEM	SHEET NUMBER																																				ITEM	QUANTITY Y005 I SECTION	QUANTITY Y005 IG* SECTION	QUANTITY CODE 7221 ▲ STATE	QUANTITY CODE 7221 I SECTION	QUANTITY CODE 7221 IG* SECTION	TOTAL	UNIT	DESCRIPTION
	16	27	28	29	30	31	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	51	57	66	71	72	73	74	75	90	99	107	114	128	148	155									
																																													DRAINAGE
																																				780	503				780		780	C.Y.	Excavation for structures, unclassified
																																			398 +842		503				398	842	1240	C.Y.	Excavation for structures
																																				Lump	503				Lump		Lump	Lump	Cofferdams, cribs, and sheeting
																																			36,245 +202449	75,324	509				111569	202449	314,018	Lbs.	Reinforcing steel
																																			234 +1034	195	511				429	1034	1463	C.Y.	Concrete for structures, class "C"
																																				443	511				443		443	C.Y.	Class E concrete, abutments above footings
																																				545	511				545		545	C.Y.	Class E concrete footings
																																				20	512				20		20	L.F.	Premolded sealing strip
																																				21	516				21		21	S.F.	1/2" Preformed expansion joint filler
																																				93.33	517				93.33		93.33	L.F.	Railing, type 1
																																				350	518				350		350	C.Y.	Porus backfill
601										*10			*10																								601		20				20	L.F.	Standard type, 1-4 paved gutter
601	10	2		2		4	2	2	*2	*2	*2	*2			2			2	2			3	2			2		6		1							601	42	8				50	S.Y.	Crushed aggregate slope protection
601		12	6	8	144		119			*8					56		18		1307	3590				4						2			3		370 +118	126	601	5765	126				5891	C.Y.	Dumped rock channel protection
601																									3										402	30	601	435					435	S.Y.	Riprap Using 6" Reinforced Concrete Slab, as per plan
602		0.26	0.26	0.26		0.52	0.26	0.26	*0.26	*0.26		*0.76	*0.26	*0.26			0.76	0.26	0.26		0.47	0.26	0.26		0.77			09		0.26			0.26	0.62	1401 +2.3		602				147.0	3.6	150.6	C.Y.	Concrete masonry
																																				195	808				195		195	Units	Water reducing set-retarding admixture
																																				437	825				437		437	S.Y.	Concrete surface treatment
603			150																																		603				150		160	L.F.	15" Conduit, Type B 706.02 class III · 706.08 with class B bedding
																																			80/98		603				98	80	178	L.F.	18" Conduit, Type A 706.01, 706.02 or 706.08 with class B bedding
																																			62		603				62		62	L.F.	60" Conduit, Type A, 706.02, with class B bedding
																																			80		603				80		80	L.F.	24" Conduit, Type A 706.02 or 706.08 with class B bedding
																																			140		603				140		140	L.F.	30" Conduit, Type A 706.02 class V with class B bedding
																																			222		603				222		222	L.F.	33" Conduit, Type A 706.02, with class B bedding
																																			370		603				370		370	L.F.	42" Conduit, Type A 706.02 class IV with class B bedding
																																			226		603				226		226	L.F.	48" Conduit, Type A 706.02 with class B bedding
																																			*298		603					298	298	L.F.	48" Conduit, Type B 706.02 class V with class B bedding
																																			226		603				226		226	L.F.	54" Conduit, Type A 706.02 with class B bedding
																																			254		603				254		254	L.F.	60" Conduit, Type A 706.02 class III with class B bedding
																																			214		603				214		214	L.F.	84" Conduit, Type A 706.02 class IV with class B bedding
																																			258		603				258		258	L.F.	96" Conduit, Type A 706.02 with class B bedding
603							55								110	68	88	58			28	34	22		210	85	70	160									603				983		983	L.F.	6" Conduit, Type B with class B bedding
603	400																																				603				400		400	L.F.	8" Conduit, Type B with class B bedding
603	400																						80			90	87	48	80			40					603				825		825	L.F.	12" Conduit, Type B with class B bedding
603		112	101	141		280	135	116	*85	*90		*88	*83	*112				149	137			90	60		140			183	100	73				48			603				1865	458	2323	L.F.	15" Conduit, Type B with class B bedding
603																	199											196									603				395		395	L.F.	18" Conduit, Type B with class B bedding
603																																		50			603				50		50	L.F.	21" Conduit, Type B with class B bedding
603																									151			173									603				324		324	L.F.	24" Conduit, Type B with class B bedding
603																	230																				603				230		230	L.F.	42" Conduit, Type B 706.02 class III with class B bedding
603																					95																603				95		95	L.F.	48" Conduit, Type B 706.02 class IV with class B bedding

FED. RD. DIVISION	STATE	PROJECT	
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GENERAL SUMMARY

FRANKLIN COUNTY
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ITEM	SHEET NUMBER																																					ITEM	QUANTITY				UNIT	DESCRIPTION
	16	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	51	57	66	71	72	73	74	75	90	99	107	114	128	148		Y060	CODE 7221		TOTAL		
																																							▲ STATE	I	IG*			
																																								SECTION				
																																												DRAINAGE (CONTINUED)
603	100																																					603		100		100	L.F.	6" Conduit, TypeC with class B bedding
603											*184						50												65	130		52		20			603		317	184	501	L.F.	12" Conduit, Type C with class B bedding
603													*198																					27			603		27	198	225	L.F.	15" Conduit, TypeC with class B bedding
603											*319																										603			319	319	L.F.	18" Conduit, Type C 706.02 class V with class B bedding
603																375	704												50	93							603		1222		1222	L.F.	18" Conduit, Type C with class B bedding
603																		508											648								603		1156		1156	L.F.	24" Conduit, Type C with class B bedding
603																		215																			603		215		215	L.F.	27" Conduit, Type C 706.02 class III or 706.08 with Class B bedding
603																						430															603		430		430	L.F.	48" Conduit, Type C 706.02 class IV with class B bedding
603																									100						659	413	80	72			603		1324		1324	L.F.	12" Conduit, Type D
603																															214			432			603		646		646	L.F.	15" Conduit, Type D
603																																79					603		79		79	L.F.	24" Conduit, Type D
603																										208											603		208		208	L.F.	24" Conduit, Type D, 706.02 or 706.08
603																																76					603		76		76	L.F.	24" Conduit, Type D, 706.02 class III or 706.08
603	100																															16						603		116		116	L.F.	6" Conduit, Type E
603	100																31																					603		131		131	L.F.	8" Conduit, Type E
603	100				46								*20																									603		146	20	166	L.F.	12" Conduit, Type E
603			70	30	76		110		30	40	*40	*60		*60	*30	*40	30	30	100	20		60	30	40	50		70	30	30	60	10			20				603		935	230	1165	L.F.	6" Conduit, Type F
603	20																10																15					603		45		45	L.F.	8" Conduit, Type F
603	20				10								*10																						20			603		50	10	60	L.F.	12" Conduit, Type F
603										*45	*72		*86	*31																				33			603		33	234	267	L.F.	15" Conduit, Type F
603						15																																603		15		15	L.F.	18" Conduit, Type F
604																	①																				604		1		1	Each	Standard No.1 manhole
604																						②															604		2		2	Each	Standard No.2 manhole without drop pipe
604																										2		1	6		1	2	1		2		604		15		15	Each	Standard No.2-2-A catch basin
604											*1		*1				2						1			2	1	1	1	3	2	1	1	3			604		18	2	20	Each	Standard No.2-2-B catch basin
604	3																																					604		3		3	Each	Standard No.2-2-B catch basin, modified as per plan
604											*2							3																			604		3	2	5	Each	Standard No.2-3 catch basin
604																																				1	604		1		1	Each	Standard No.2-6 catch basin
604			1	1	1		2		1	1	*1	*1		*1	*1	*1	1	1	2	1	1																	604		13	5	18	Each	Standard No.4 catch basin
604				1																																		604		1		1	Each	Standard No.5 catch basin
																								1													604		1		1	Each	Standard No.6 catch basin
604	2																																					604		2		2	Each	Inspection well, as per plan
605		8169																																				605		8169		8169	L.F.	Aggregate drains
605										400						600				200			776	832	641													605		3449		3449	L.F.	6" Unclassified pipe underdrains
605			1764	695						3698	*4115	*3516	*4000	*3331	*4013	*2082				2604	2593	1030		952	2640		902	1447	1943	1209	192			1026				605		22589	21057	43646	L.F.	6" Shallow pipe underdrains
606			409	3443	4118	3952	4243	3990	4080							1800	3881	2451	3041	200			994															605		36602		36602	L.F.	6" Deep pipe underdrains
																																												SANITARY SEWERS
603																▲358																					603	358			358	L.F.	24" Conduit, Type B 706.02 class V with class B bedding with compression joints, as per plan
604																▲ 2																					604	2			2	Each	Standard No. 2 manhole, modified as per plan

GENERAL SUMMARY

FED. RD. DIVISION	STATE	PROJECT	
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FRANKLIN COUNTY

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ITEM	SHEET NUMBER																QUANTITY CODE 7221 STATE	QUANTITY CODE 7221 I SECTION	QUANTITY CODE 7221 IG* SECTION	TOTAL	UNIT	DESCRIPTION
	18	25	26		51	57	66	71	74	75	89	100	107	116	128							PAVEMENT
301			8887 1372														301	8887	1372	10259	C.Y.	Bituminous aggregate base, 702.01(85-100) or 702.09 RT-12,
304	52		15902 •2662		26		9	70	93	25	161	214	21	96	20		304	16,023	2662	18691	C.Y.	Aggregate base
304		79 •12															304	80	14	94	M.Gal.	Water
310			24633 •8196														310	24633	8196	32829	C.Y.	Subbase, grading A or B, as per plan
310			9659 •948														310	9659	948	10607	C.Y.	Subbase
402			1404																			
402			441					47	1				2	2			402	1404		1404	C.Y.	Asphalt concrete (70-85)
																	402	493		493	C.Y.	Asphalt concrete (85-100)
404			1002									6										
404	21		451		5		4	67	14	10	37	38	18	27	8		404	1002		1002	C.Y.	Asphalt concrete (70-85)
																	404	706		706	C.Y.	Asphalt concrete (85-100)
407			45		13							15	35	34			407	142		142	Gal.	Tack coat, 702.04, MS-2 or RS-1, or 702.02, RC-70 or RC-250,
408	8		3743					449	13		264	258	52	144			408	4931		4931	Gal.	Bituminous prime coat, 702.09, RT-2 or RT-3
409			419 •128														409	419	128	547	C.Y.	Seal coat cover aggregate No. 8
409			1357														409	1357		1357	Gal.	Seal coat bituminous material, 702.09, RT-1 or RT-2, or 702.02, MC-800 or MC-3000
409			12,395 •4125														409	12,395	4125	16,520	Gal.	Seal coat bituminous material, as per plan
451			124968 •40292														451	124968	40292	165260	S.Y.	9" Reinforced portland cement concrete pavement
609			1126														609	1126		1126	L.F.	Concrete curb, standard type 6
609			296														609	296		296	L.F.	Concrete curb, standard type 7
609			398														609	398		398	L.F.	Concrete curb, standard type 8
611			1479 •800														611	1479	800	2279	S.Y.	Reinforced concrete approach slabs, as per plan, (7-18")
612			278														612	278		278	S.Y.	Concrete median Standard
613						3				13	5						613	21		21	Each	Traffic dividers Standard
Spec.			1563 •460														Spec.	1563	460	2023	C.Y.	Drainage connection using No. 8 aggregate,

GENERAL SUMMARY

FED. RD. DIVISION	STATE	PROJECT	
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FRANKLIN COUNTY

FRA-270-11.59S

ITEM	SHEET NUMBER	ITEM	QUANTITY YO60 CODE 7221 1 SECTION	IG *	TOTAL	UNIT	DESCRIPTION
							WATER MAINS
	190						
	936	814	936		936	L.F.	New 8" water mains, Class 23
	1135	814	1135		1135	L.F.	New 6" water mains, Class 22
	1	814	1		1	Each	8" Valves and boxes
	5	814	5		5	Each	6" Valves and boxes
	3	814	3		3	Each	Fire hydrants moved and reset
	72	814	72		72	L.F.	New service branches
	1	814	1		1	Each	2" Blowoff assembly
	1	814	1		1	Each	6"-90° Bend
	1	814	1		1	Each	8"-22½° Bend
	4	814	4		4	Each	6"-22½° Bend
	2	814	2		2	Each	6"-11¼° Bend
	2	814	2		2	Each	8"x8"x8" Tee
	1	814	1		1	Each	8"x8"x6" Tee
	2	814	2		2	Each	6"x6"x6" Tee
	4	814	4		4	Each	8"x6" Reducer
	3	814	3		3	Each	8" Sleeve
	2	814	2		2	Each	6" Sleeve
	4	814	4		4	Each	Valves removed and disposed of
	835	814	835		835	L.F.	8" Water mains removed and disposed of
	324	814	324		324	L.F.	6" Water mains removed and disposed of
	580	814	580		580	L.F.	2" Water mains removed and disposed of
							For Traffic Control and Signing Quantities See Sheet 177
							For Lighting Quantities See Sheet 194
							STRUCTURES OVER 20' SPAN
							FRA-270-11.72S For Quantities See Sheet 264
							FRA-270-12.75S For Quantities See Sheet 270
							FRA-270-13.24S L&R For Quantities See Sheet 277
							FRA-270-13.72S L&R For Quantities See Sheet 284
							FRA-270-14.23S For Quantities See Sheet 290
							FRA-270-14.65-.66S For Quantities See Sheet 298
		614	Lump	Lump	Lump	Lump	Maintaining Traffic
			Lump	Lump	Lump	Lump	Construction Layout Stakes
			Lump	Lump	Lump	Lump	Field Office

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

25/332

FRANKLIN COUNTY
FRA-270-11.59S

SUB SUMMARY

EARTHWORK & SEEDING QUANTITIES

LOCATION			Item 203 EXCAVATION	Item 203 EMBANKMENT		Item 203 GRANULAR EMBANKT BASE	Item 659 SEEDING & MULCHING
ROAD NAME	FROM	TO	C.Y.	C.Y.		C.Y.	S.Y.
IR 270	534+60	540+00	839	31185			11 11532
IR 270	540+00	550+00	46092	3006			20417
IR 270	550+00	560+00	26101	3076			23695
IR 270	560+00	570+00	44163	9403			28739
IR 270	570+00	580+00	85260	0			27916
IR 270	580+00	590+00	79567	0			25210
IR 270	590+00	600+00	44023	368			22925
IR 270	600+00	610+00	6629	53195			25783
IR 270	610+00	620+00	• 3577	• 169537			• 29528
IR 270	620+00	623+57	• 259	• 93133			• 10710
IR 270	624+06	630+00	• 556	• 211817			• 21344
IR 270	630+00	640+00	• 4619	• 395666			• 39440
IR 270	640+00	648+25	• 5102	• 318313		• 3812	• 31745
IR 270	649+19	660+00	• 2162	• 196102		• 5707	• 31143
IR 270	660+00	665+00	• 964	• 21385			• 11471
IR 270	665+00	670+00	25874	226			11334
IR 270	670+00	680+00	124898	0			23470
IR 270	680+00	690+00	125659	1188			26293
IR 270	690+00	700+00	251242	0			25534
IR 270	700+00	710+00	50549	124159			18412
IR 270	710+00	720+00	2689	120511			20522
IR 270	720+00	725+60	6202	55666			14129
Ramps W & W1			28106	895			12491
Ramps V & V1			7835	69505			14126
Ramp Y			15688	65289			14305
Ramps X & Y1			3144	50044			26032
Ramps S & T	690+00, Mt Lt.	697+00, Mt Lt.	99445	0			26409
Ramps S & T	52+00, Alum C.D. Lt.	57+40, Alum C.D. Lt.	12052	0			7895
Alum Creek Dr.	31+19	48+88	31681	13315			21556
Alum Creek Dr.	61+56	61+00	31754	6332			17605
Alum Creek Dr.	61+00	74+00	14161	3986			24981
Parsons Ave.	7+90	18+92	1266	20821			13628
Parsons Ave.	21+02	32+25	1386	44796			15922
Lockbourne Rd.	38+00	48+88	2297	28038			12432
Lockbourne Rd.	51+16	59+00	1235	13991			8394
Obetz Reese Rd.	19+00	41+00	3186	16254			18159
Groveport Rd.	128+00	135+70	1093	2916			8476
Groveport Rd.	138+92	150+50	11792	3323			16234
Groveport Rd.	156+00	158+90	3003	96			3011
Samson Front Rd.	1+25	36+00	4783	84506			35625
Stegner St.	0+86.5	9+90	1311	335			4615
Stegner Cul-de-Sac	6+50	7+75	381	6			778
Alum Cr. Cul-de-Sac	28+00	29+00	506	455			907
* Sandridge Ditch	12+00	24+50 @ IR 270	3403	131			4498
* Johnston Ditch	4+30	16+50	3191	884			5877
* Boehm Ditch	6+40	8+70	3461	0			1104
* Boehm Ditch	11+36	18+05	13297	106			6604
* Boehm Ditch	19+18	26+70	6604	292			4875
* Channel Excavation	from Sh. 148 & 155		4100 *653				
I SECTION			1,229,948	828,299			652,350
*IG SECTION			• 17892	• 1,405,953		• 9579	• 175,381
Sub Totals to General Summary			1,247,840	2,234,252		9579	827,731

*100% of Ditch & Channel excavation is available for embankment

ITEM 203 ~ WATER

I SECTION
- Embankment 828,299 C.Y.
- Item 310 34,292 C.Y.
- C.Y. x 0.005 4,313 M Gal.

IG SECTION
- Embankment 1,405,953 C.Y.
- Item 310 9,144 C.Y.
- C.Y. x 0.005 7,076 M Gal.

Sub Totals to General Summary

ITEM 304 ~ WATER

I SECTION
- Item 304 Aggregate Base 16,029 C.Y.
- C.Y. x 0.005 80 M Gal.

IG SECTION
- Item 304 Aggregate Base 2662 C.Y.
- C.Y. x 0.005 14 M Gal.

Sub Totals to General Summary

ITEM 659 ~ COMMERCIAL FERTILIZER

I SECTION
- Seeding and Mulching 652,350 S.Y.
- Sodding 3,816 S.Y.
- Jute Matting 2,688 S.Y.
- S.Y. x 0.00009 59.30 Tons

IG SECTION
- Seeding and Mulching 175,381 S.Y.
- Sodding 640 S.Y.
- Jute Matting 1,151 S.Y.
- S.Y. x 0.00009 15.95 Tons

Sub Totals to General Summary

ITEM 203 ~ BORROW

I SECTION
- Embankment +15% 952,544 C.Y.
- Excavation 1,229,948 C.Y.
- Borrow 0 C.Y.
- Excess 227,404 C.Y.

IG SECTION
- Embankment +15% 1,616,846 C.Y.
- Excavation 17,892
- Available from I Section 227,404
- −295,296 C.Y.
- Borrow 1,321,550 C.Y.

Sub Totals to General Summary

ITEM 604 ~ REFERENCE MONUMENTS

LOCATION		Centerline Monuments
IR 270	POT 536+00	1
	POT 542+00	1
	POT 552+00	1
	POT 560+00	1
	POT 570+00	1
	POT 578+00	1
	POT 588+00	1
	POT 596+00	1
	POT 604+00	1
	POT 614+00	*1
	POT 622+00	*1
	POT 630+00	*1
	POT 638+00	*1
	POT 645+00	*1
	POT 653+00	*1
	POT 662+00	*1
	POT 672+00	1
	PC 679+04.70	1
	POC 688+00	1
	POC 695+00	1
	POC 702+94.92	1
	POC 712+00	1
	POC 724+00	1
Alum Creek Drive	POT 34+00	1
	POT 40+00	1
	POT 48+00	1
	POT 54+00	1
	POT 61+70.81	1
	PC 67+08.31, 48' Rt & Lt	2
	PI 68+97.47, 48' Rt & Lt	2
	PT 70+84.45, 30' Rt & Lt	2
Parsons Ave.	POT 9+00.00, 22' Rt & Lt	2
	PI1 10+51.74, 22' Rt & Lt	2
	PI2 14+66.56, 22' Rt & Lt	2
	POT 22+00.00, 22' Rt & Lt	2
	PI3 25+36.64, 22' Rt & Lt	2
	PI4 29+97.56, 22' Rt & Lt	2
	POT 31+50.00, 22' Rt & Lt	2
Lockbourne Road	POT 39+00.00, 22' Rt & Lt	2
	POT 48+00.00, 22' Rt & Lt	2
	PI 52+00.00, 22' Rt & Lt	2
	POT 57+00.00, 22' Rt & Lt	2
Obetz Reese Rd.	POT 22+00.00, 18' Rt & Lt	*2
	PI 28+98.75, 18' Rt & Lt	*2
	POT 38+00.00, 18' Rt & Lt	*2
Groveport Road	POT 131+00.00, 22' Rt & Lt	2
	PC 140+06.14, 22' Rt & Lt	2
	PT 143+77.08, 22' Rt & Lt	2
	POT 149+00.00, 22' Rt & Lt	2
	POT 158+00.00, 30' Rt & Lt	2
Stegner Street	PI 3+65.85, 30' Rt & Lt	2
	POT 8+75.00, 30' Rt & Lt	2
Samson Frontage Road	PC1 3+28.16, 16' Rt & Lt	2
	PT1 5+93.79 16' Rt & Lt	2
	PC2 8+06.69, 16' Rt & Lt	2
	PT2 14+28.25, 16' Rt & Lt	2
	PC3 19+57.04 16' Rt & Lt	2
	PT3 26+69.28, 16' Rt & Lt	2
	POT 35+58.84, 16' Rt & Lt	2
I SECTION		67
*IG SECTION		*13
Sub Totals to General Summary		80

Note: See pavement detail sheet 166, for method of pavement separation.

SUB SUMMARY

FED. RD. DIV.&BDR	STATE	PROJECT	
2	OHIO		

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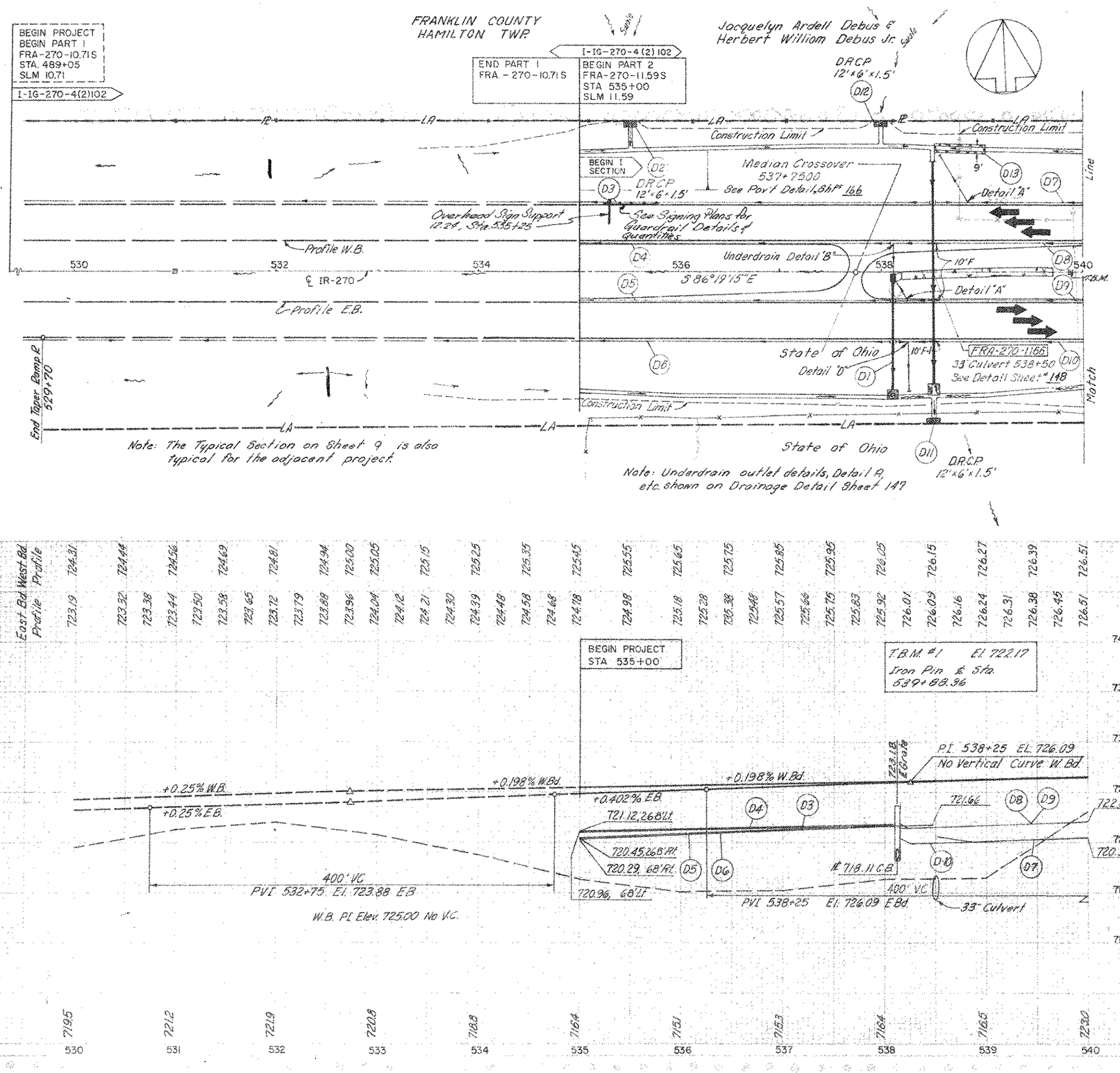
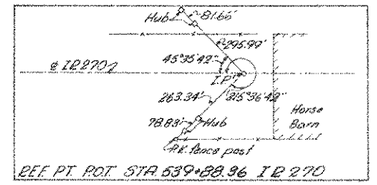
FRANKLIN COUNTY
FRA-270-11.59S

PAVEMENT QUANTITIES

LOCATION			203 Subgrade Preparation	301 Bit. Agg. Base	302 Asph. Conc (70-85)	304 Agg. Base	310 Subbase "A" or "B"	310 Subbase	402 Asph. Conc (70-85)	402 Asph. Conc (85-100)	403 Asph. Conc (70-85)	404 Asph. Conc (70-85)	404 Asph. Conc (85-100)	407 Tack Coat	408 Prime Coat	409 Seal Coat Agg.	409 Seal Coat Bit. Material	409 Seal Coat Bit. Material	451 Reinforced Concrete	609 Curb Type 6	609 Curb Type 7	609 Curb Type 8	611 Approach Slabs	612 Concrete Median	Special Drainage Connection	605 Aggregate Drains
Road Name	From	To	S.Y.	C.Y.	C.Y.	C.Y.	C.Y.	C.Y.	C.Y.	C.Y.	C.Y.	C.Y.	C.Y.	Gal	Gal	C.Y.	Gal(@0.25)	Gal(@0.30)	S.Y.	L.F.	L.F.	L.F.	S.Y.	S.Y.	C.Y.	L.F.
IR 270	535+00	610+00	83332	1944		3768	11844	1386								188	6832		60000						674	
"	610+00	622+76.62	*14182	* 330		* 642	*2016	* 236								* 32	* 994		*10212						* 114	
"	622+76.62	624+87.38	* 556	* 12		* 24	* 80	* 8									* 40						* 400		* 4	
"	624+87.38	647+45.25	*25086	* 586		*1134	*3564	* 418								* 56	*1756		*18062						* 202	
"	647+45.25	649+97.75	* 556	* 12		* 24	* 80	* 8									* 40						* 400		* 4	
"	649+97.75	665+00	*16692	* 390		* 754	*2372	* 278								* 36	*1168		*12018						* 136	
"	665+00	679+48	16089	376		726	2282	271								36	1126		11584						130	
"	679+48, E.B.	688+48, E.B.	3928	82		65	655									4	98		3335				202			
"	688+48, E.B.	707+47, E.B.	10780	260		504	1612	193								25	780		7660						86	
"	707+47, E.B.	719+47, E.B.	5376	45		89	896									4	134		4840							
"	719+47, E.B.	725+00, E.B.	3100	73		144	423									7	218		2231							
"	679+48, W.B.	687+98.57, W.B.	4554	107		206	603	110								10	319		3083				198		36	
"	687+98.57, W.B.	704+42, W.B.	7468	80		157	1122	89								8	238		6519						6	
"	704+42, W.B.	713+05, W.B.	4752	111		215	629	116								11	332		3423						38	
"	713+05, W.B.	722+07, W.B.	3977	33		66	613	37								3	100		3528							
IR 270	722+07, W.B.	725+00, W.B.	1614	38		73	213	39								4	112		1162						19	
Ramps W & W1			4668	220		83	696	56							24	8	347		3191	222			167	65	111	
Ramps V & V1			7354	379		128	1046	125								16	581		5081	212	90	398		38	167	
Ramps Y & Y1			7066	334		112	1015	111								13	516		5009	330	206			30	172	
Ramp X			5861	237		88	889	58								9	364		4322	207				145	130	
Rel. Alum Creek Dr.	31+37	32+10																								
" " " "	34+75	48+10.55	8697	1224		1492	2	1612	422			302				20	695			74						887
" " " "	48+10.55	52+32.95	368																							
" " " "	52+32.95	61+00	5730	788		1016	1	1066	280			200				14	486			81			368			257
" " " "	61+00	73+00	5304	592		966		982		209			209		586	9		438								202
Rel. Alum Creek Dr.	70+84.45	74+00		1		32		7		3			3		83	1		42								
Alum Creek Dr. Turnout	33+75	34+13.59								1			1		13											
Alum Creek Dr. Turnout	34+13.59	37+50.33				258				28			28		414											
Howard Road	18+75	19+72				81				9			9		130											
Lindsay Road	19+00	19+43.60				62				7			7		99											
Rel. Parsons Ave.	8+00	18+34.25	2752	314		324		503	134			96														721
Rel. Parsons Ave.	18+34.25	21+65.75	184				30																184			597
Rel. Parsons Ave.	21+65.75	32+25	2807	320		330		515	137			97														352
Lockbourne Road	39+00	48+34.25	2224	253		425		409	109			77			313	6		236								430
Lockbourne Road	48+34.25	51+65.75	184				30																			605
Lockbourne Road	51+65.75	58+00	1430	165		275		264	69			49			203	5		154					184			396
Obetz-Reese Road	22+00	38+60	3696	315		324		690		103			103													750
Groveport Road	129+75	135+16.81	1428	162		257		259	70			50			174	4		130								203
" "	135+16.81	139+43.19	176				30																			
" "	139+43.19	150+00	2795	318		522		510	135			97			376	8		282					176			2170
Groveport Road	156+50	169+16	1001	114		169		179	48			34			100	2		75								324
Samson Frontage Rd.	1+25	1+98.16											5	13												
Samson Frontage Rd.	1+98.16	35+62				1494																				
Stegner Street	0+95.50	9+90				537				56			56		860											
Stegner Rd. Cul-de-Sac						147				16			16		235											
Alum Creek Cul-de-Sac						83				9			20	32	133											
Median Crossover	537+75		506	42		84	84									4	127									
Median Crossover	663+88		* 506	* 42		* 84	* 84									* 4	* 127									
I SECTION TOTAL			209201	8887		15302	24633	9659	1404	441		1002	457	45	3743	419	12395	1357	124965	1126	296	398	1479	278	1563	8169
*IG SECTION TOTAL			* 57578	* 1372		* 2662	* 8196	* 348								* 128	* 4125		*40292				* 800		* 460	
Sub Totals to General Summary			266779	10259		17964	32829	10007	1404	441		1002	457	45	3743	547	16520	1357	165260	1126	296	398	2279	278	2023	8169





SHEET NO.	STATE	PROJECT	
2	OHIO		

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FRANKLIN COUNTY
FRA-270-11.59 S

DRAINAGE	601		602		603		604	605				660	66
	Crushed Aggregate Slope Protection	Dumped Rock Channel Protection	Concrete Masonry	15" Conduit Type B, Class B	6" Conduit Type F		Standard No. 4 Catch Basin	6" (Deep) Pipe Underdrain	6" (Shallow) Pipe Underdrain	6" Special for Underdrain-Bends	6" Special for Underdrain-Branches	Seeding	
Code / Location	S.Y.	C.Y.	C.Y.	L.F.	L.F.		Ea.	L.F.	L.F.	Ea.	Ea.	S.Y.	S.Y.
D-1 538+12 6'Rt. to 118'Rt.	2		0.26	112			1						122
D-2 535+50 Lt.		4											
D-3 534+75 to 538+46 Lt.									371				
D-4 534+75 to 538+10 Lt.									335				
D-5 534+75 to 538+09 Rt.									334				
D-6 534+75 to 538+09 Rt.									334				
D-7 538+52 to 540+00 Lt.					10			193			1		
D-8 538+12 to 540+00 Lt.					20				192	1			
D-9 538+12 to 540+00 Rt.					20				198		1		
D-10 538+12 to 540+00 Rt.					20			216			1		
D-11 538+50 Rt.		4											
D-12 538+00 Lt.		4											
D-13 538+50 to 539+00												50	
Total	2	12	0.26	112	70		1	409	1764			50	122

Pavement quantities for median crossover 537+75.00 found on Sub-Summary sheet 26. Limit of quantities and layout details shown on Pavement Detail Sheet 166.

FRANKLIN COUNTY
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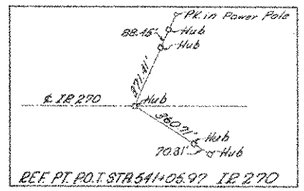

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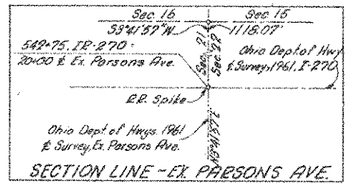
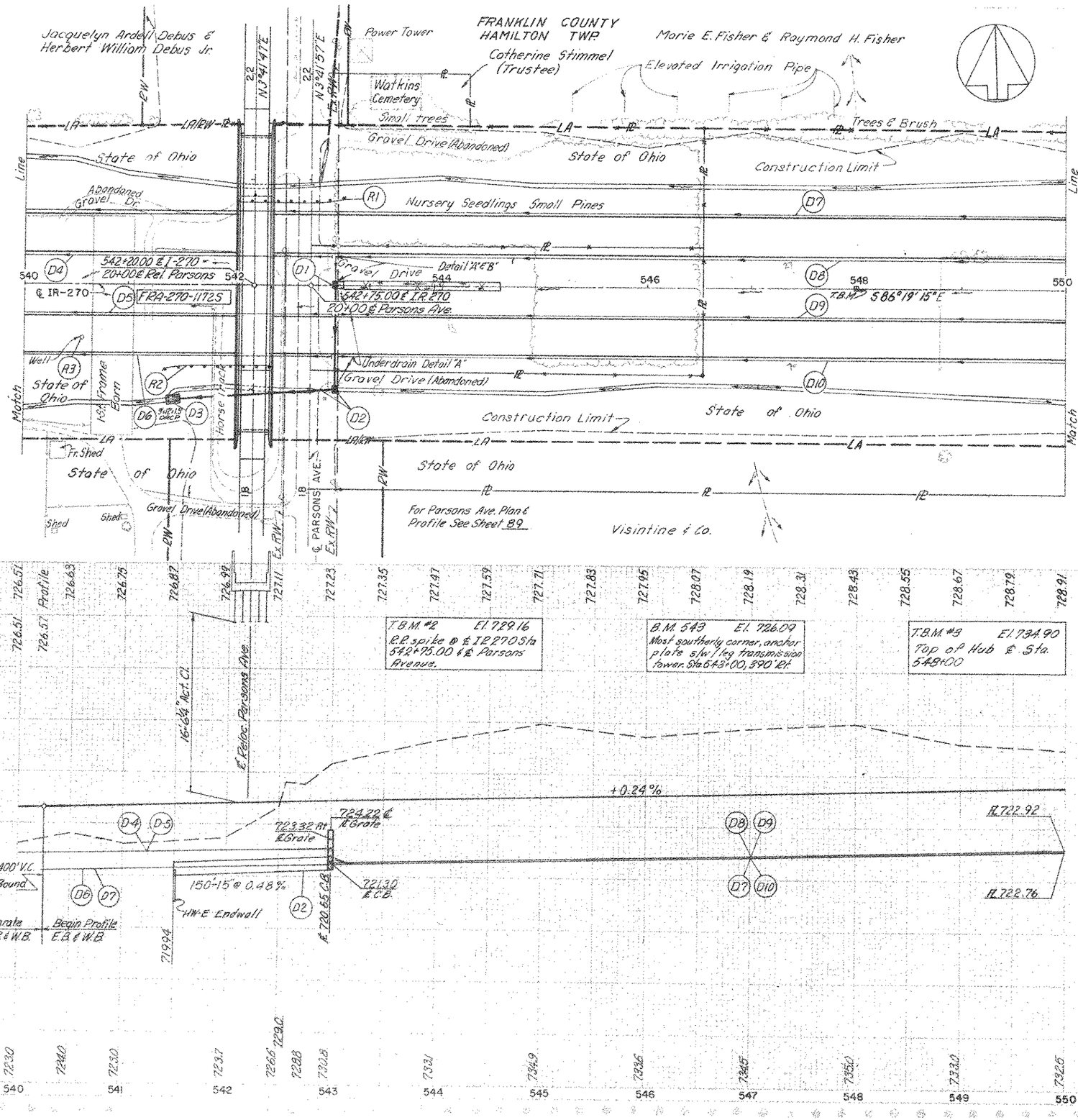
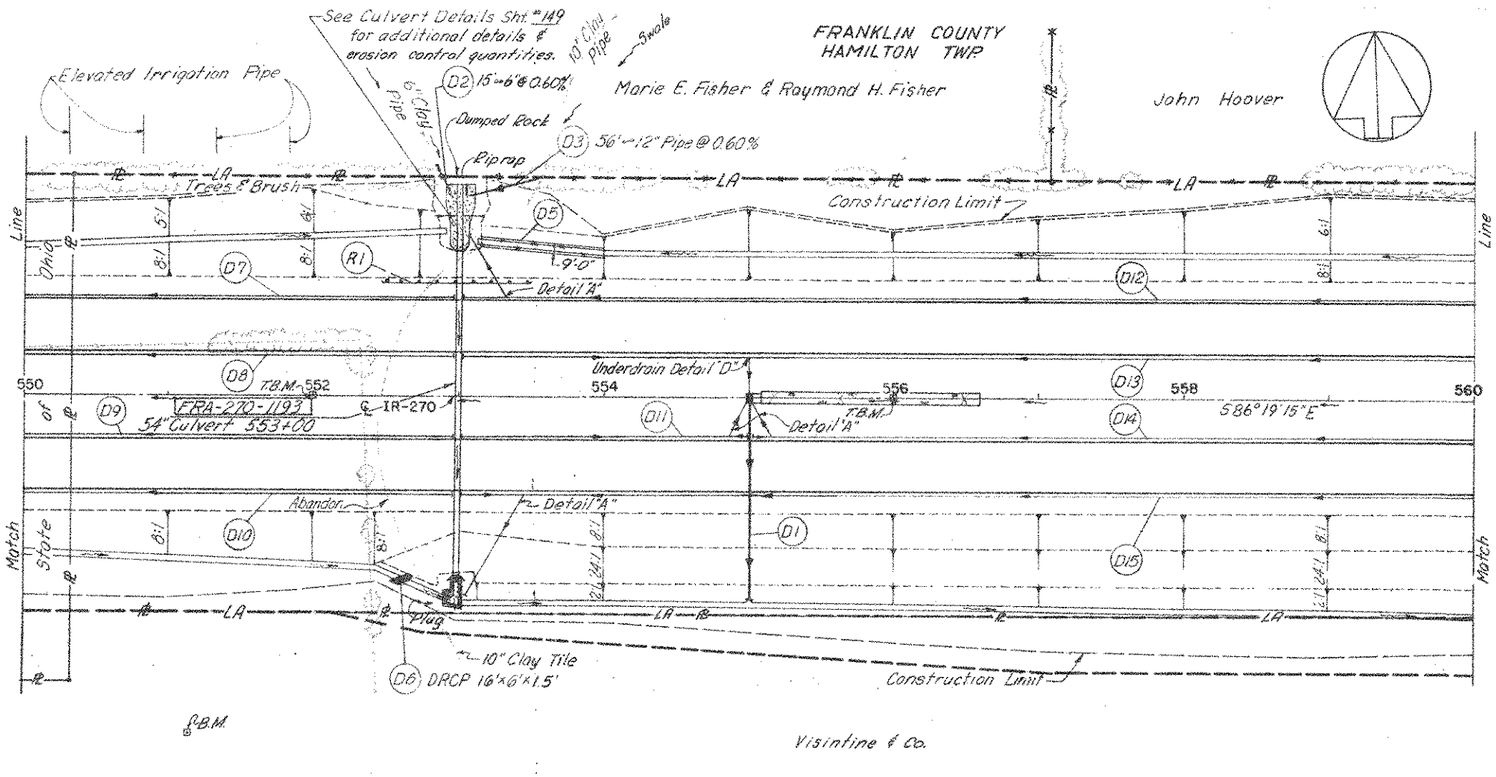


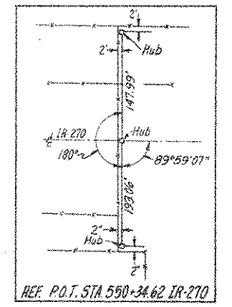
SECTION LINE - EX PARSONS AVE.



DRAINAGE		601	602	603			604		605			667
		Dumped Rock	Concrete Masonry	15" Conduit Type B, Class B	6" Conduit Type B, 7ga. 2 2/3"x1/2" Cor.	6" Conduit Type F	6" Special Brand Pipe Underdrain	Standard No. 4 Catch Basin	Standard No. 5 Catch Basin	6" Pipe (Shallow) Underdrain	6" Pipe (Deep) Underdrain	6" Special-Bend Pipe Underdrain	Jute Matting
Code	Location	C.Y.	C.Y.	L.F.	L.F.	L.F.	Ea.	Ea.	Ea.	L.F.	L.F.	Ea.	S.Y.
D1	543+00, ℄ to 101' Rt.			101				1					125
D2	541+50 to 543+00, Rt.		0.26		150				1				
D3	541+38, Rt.	6											
D4	540+00 to 542+97, Lt.									238			
D5	540+00 to 542+97, Rt.									297			
D6	540+00 to 542+97, Rt.										297		
D7	540+00 to 550+00, Lt.										1000		
D8	543+00 to 550+00, Lt.					10					714	1	
D9	543+03 to 550+00, Rt.					10	1				715		
D10	543+03 to 550+00, Rt.					10	1				717		
	Total	6	0.26	101	150	30	1	1	595	3443			125

ROADWAY		606	Special		
		Guard Rail Type 4	Drilled Well Abandoned		
Code	Location	L.F.	Ea.		
R1	542+05 to 543+05 Lt.	100'			
R2	541+35 to 542+35 Rt.	100'			
R3	540+55 50' Rt.		1		
	Total	200	1		





1		
2	GMB	

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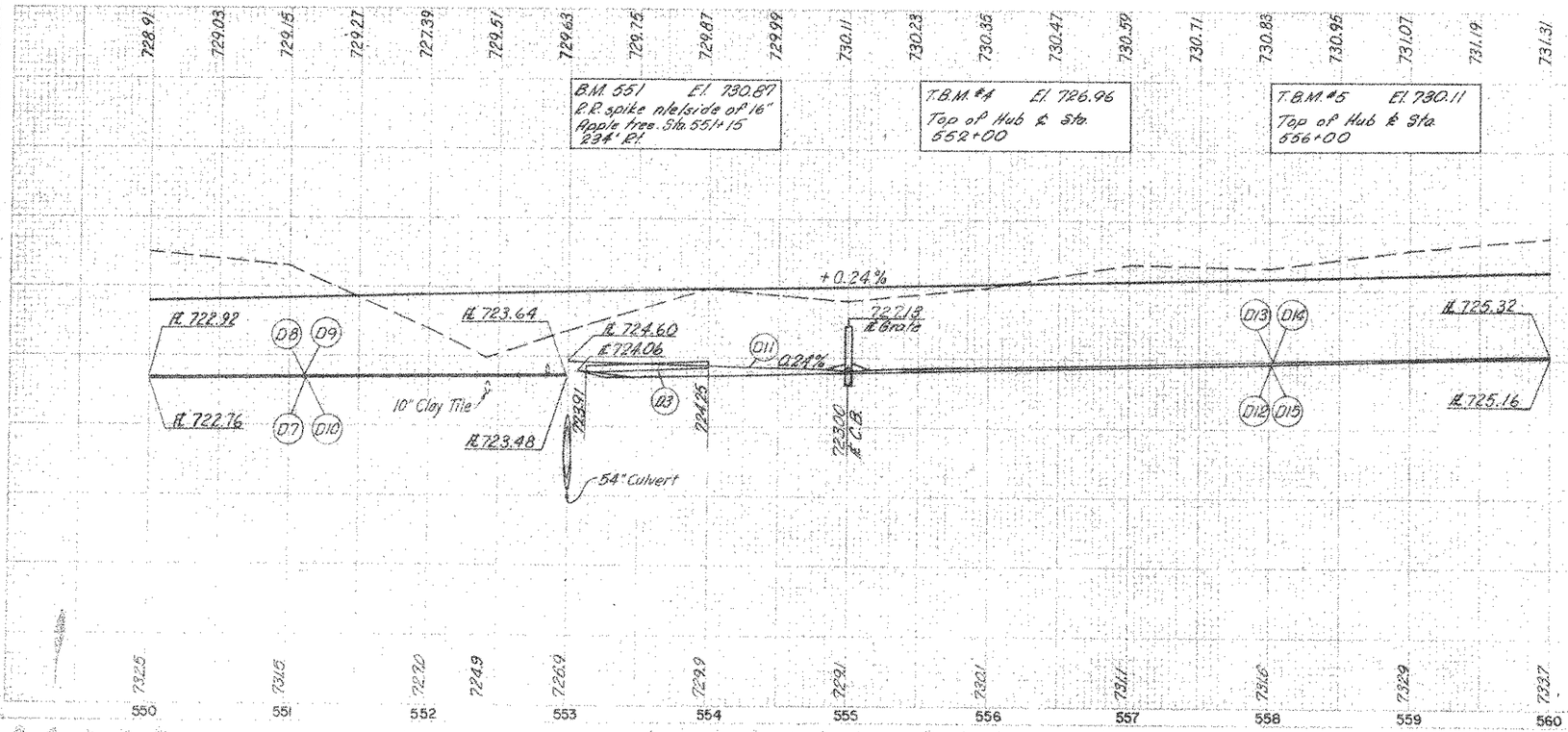
FRANKLIN COUNTY
FRA-270-11.59 S

DRAINAGE

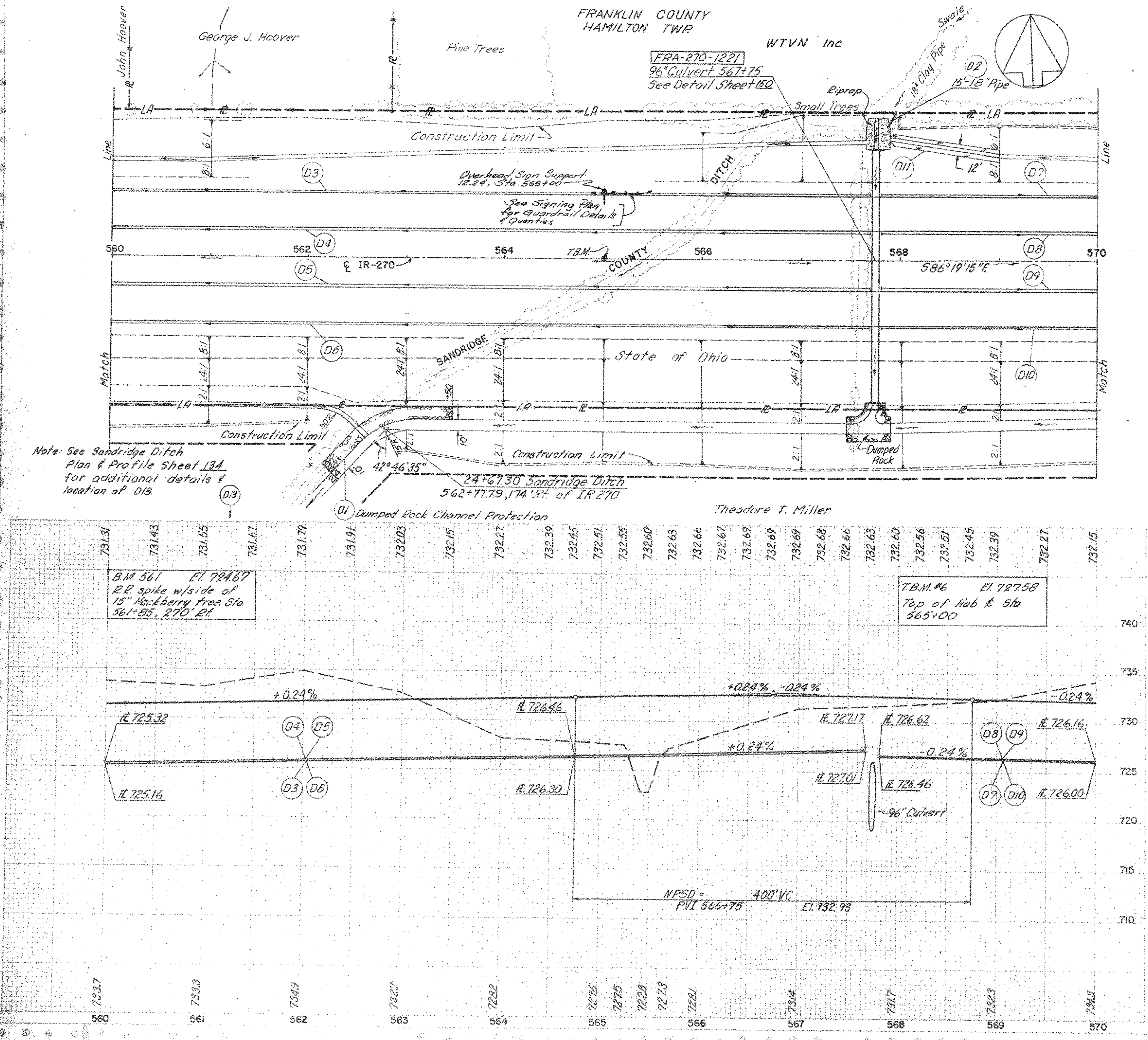
Code	Location	601 Crushed Aggregate S.Y.	602 Concrete Masonry C.Y.	603 15" Conduit Type B, Class B L.F.	603 12" Conduit Type F L.F.	603 12" Conduit Type E L.F.	603 6" Conduit Type F L.F.	604 Standard No. 4 Catch Basin Ea.	605 6" Pipe (Deep) Underdrain L.F.	601 Dumped Rock Channel Protection C.Y.	660 6" Special Branches Ea.	660 12" Special Bends Ea.	667 Seeding S.Y.	667 Jute Matting S.Y.
D-1	555+00, ℄ to 141 Rt.	2	0.26	141				1						125
D-2	552+91, 147' Lt.						15							
D-3	553+05 to 553+57, Lt.				10		46					1		
D-5	553+13 to 554+00, Lt.												83	
D-6	552+54, 128' Rt.									8				
D-7	550+00 to 552+94, Lt.								294					
D-8	550+00 to 552+94, Lt.								294					
D-9	550+00 to 552+94, Rt.								294					
D-10	550+00 to 552+94, Rt.								294					
D-11	553+06 to 554+97, Rt.						10		210		1			
D-12	553+06 to 560+00, Lt.						10		743		1			
D-13	553+06 to 560+00, Lt.						10		708		1			
D-14	555+03 to 560+00, Rt.						10		515		1			
D-15	553+06 to 560+00, Rt.						20		766		1			
	Total	2	0.26	141	10		46	75	1	4118	8		83	125

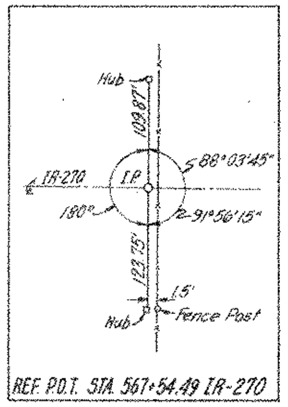
ROADWAY

Code	Location	606 Guard Rail Type 4 L.F.
R-1	552+47 to 553+47	100
	Total	100



FRANKLIN COUNTY
FRA-270-11.59 S





REF. P.O.T. STA. 567+54.49 IR-270

DRAINAGE

Code	Location	601 Dumped Rock Channel Protection	603 18" Conduit Type F	605 6" Pipe (Deep) Underdrain	660 Sodding
		C.Y.	L.F.	L.F.	S.Y.
D1	24+00 to 563+00 Rt.	100			
D2	567+78, 136' Lt.		15		
D3	560+00 to 567+69 Lt.			769	
D4	560+00 to 567+69 Lt.			769	
D5	560+00 to 567+69 Rt.			769	
D6	560+00 to 567+69 Rt.			769	
D7	567+81 to 570+00 Lt.			219	
D8	567+81 to 570+00 Lt.			219	
D9	567+81 to 570+00 Rt.			219	
D10	567+81 to 570+00 Rt.			219	
D11	567+90 to 569+00 Lt.				146
D13	20+01.78 to 21+00 Sandridge	44			
	Total	144	15	3952	146

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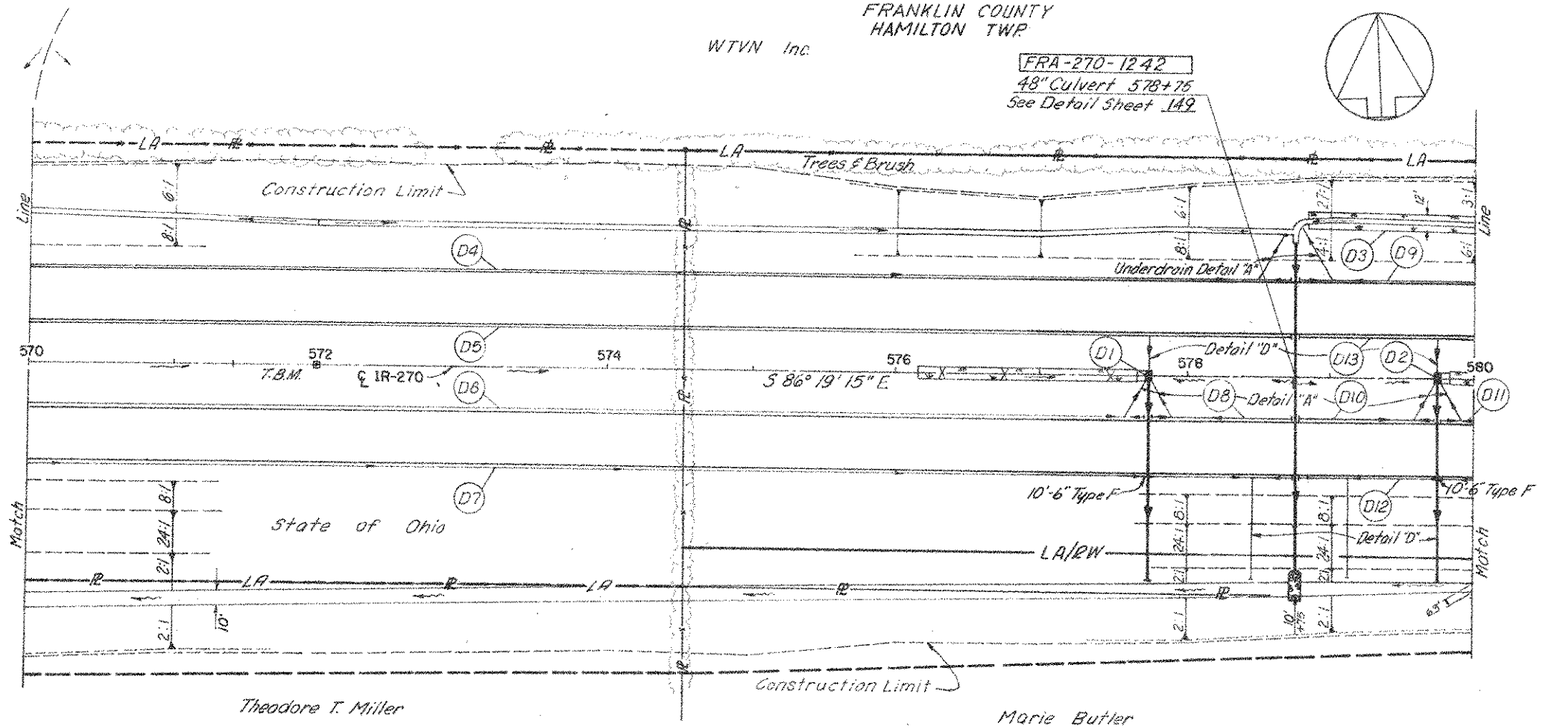
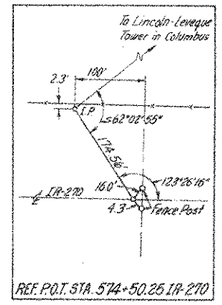
FRANKLIN COUNTY
HAMILTON TWP.

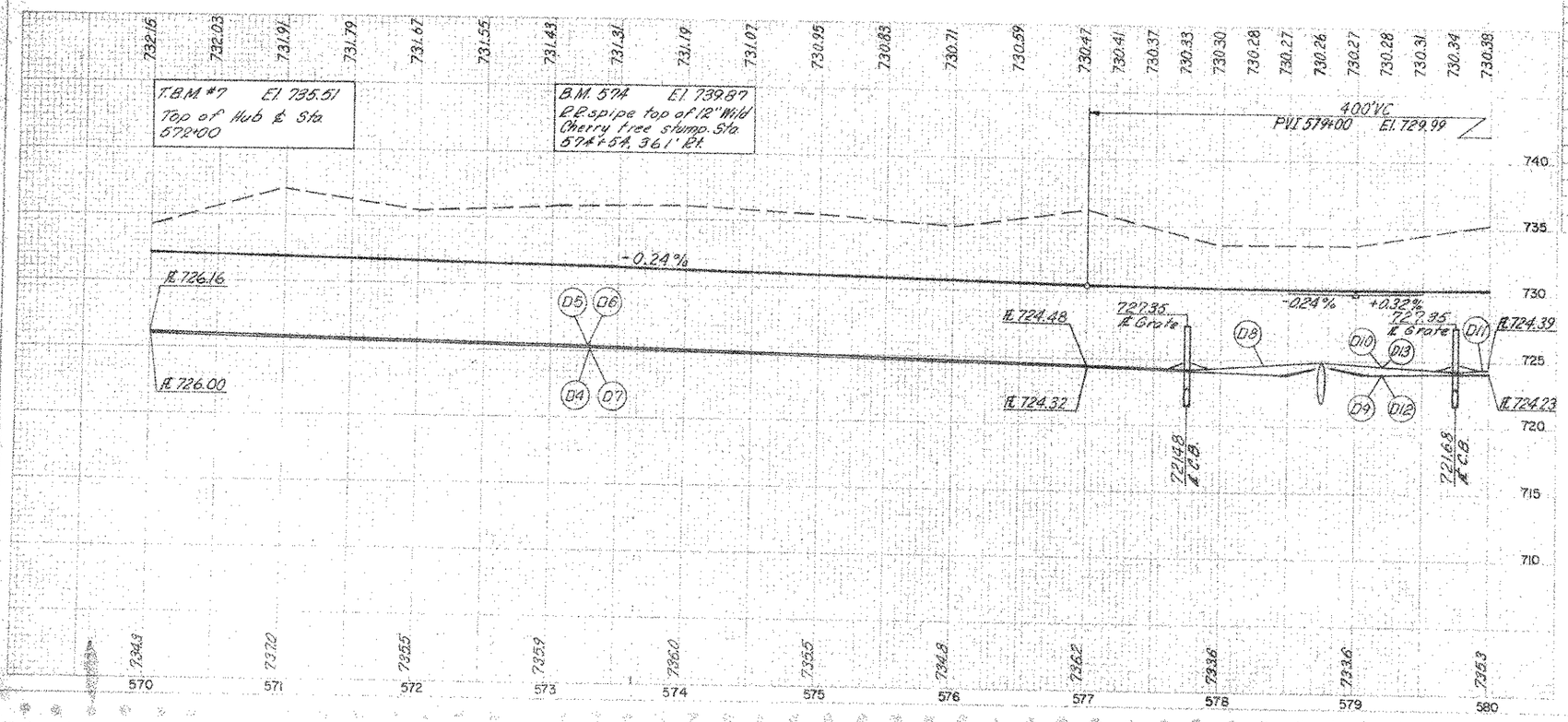
WTVN Inc.

FRA-270-12.42
48" Culvert 578+75
See Detail Sheet 149

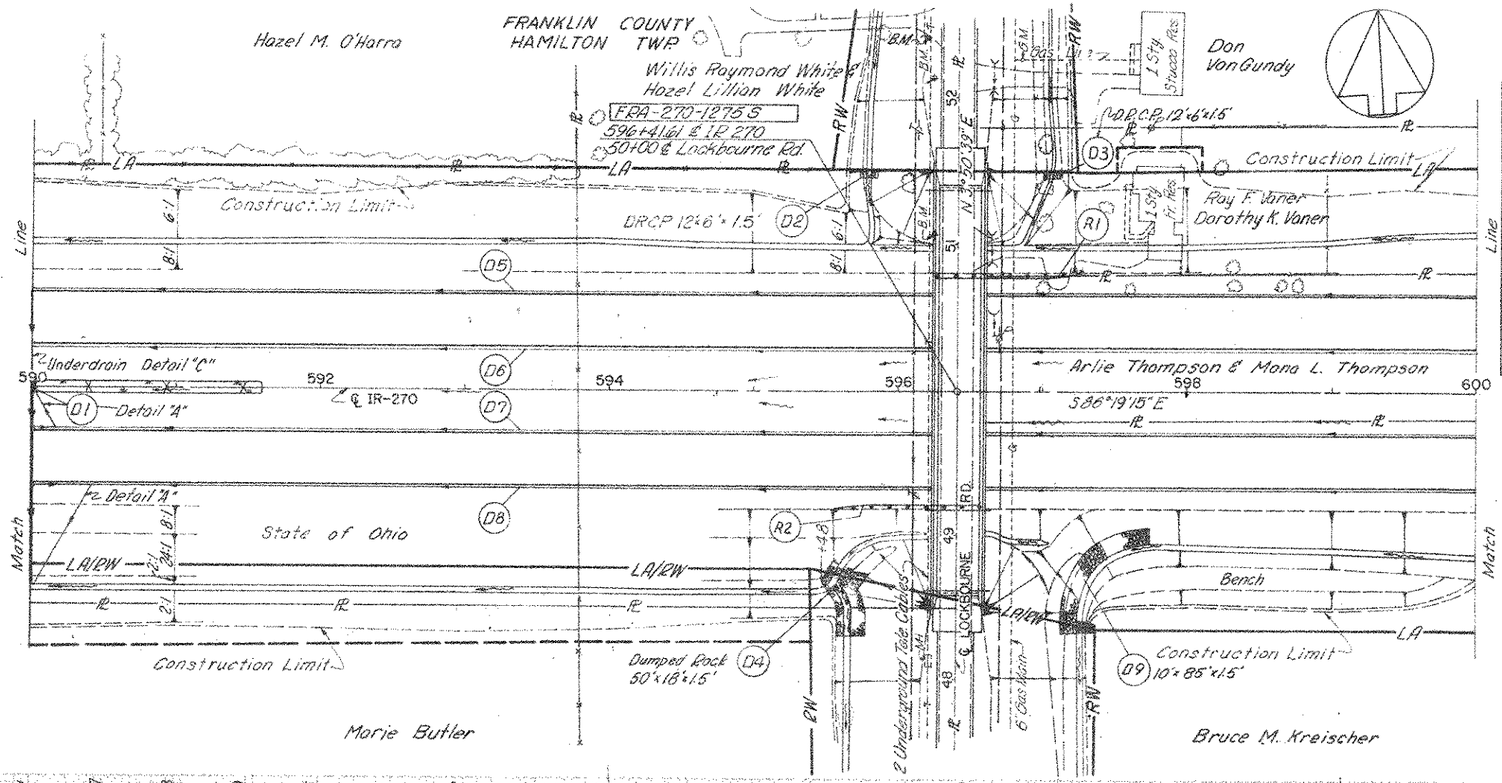


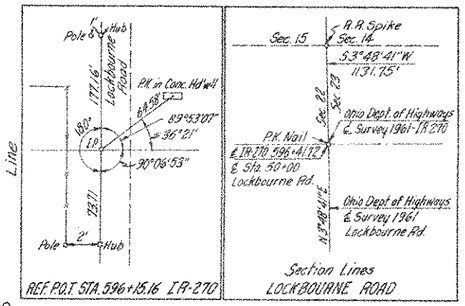


DRAINAGE		601	602	603		604	605		660	667
		Crushed Aggregate Slope Protection	Concrete Masonry	15" Conduit Type B, Class B	6" Conduit Type F	Standard No 4 Catch Basin	6" Pipe (Deep) Underdrain	6" Special Branch Pipe Underdrain	Seeding	Jute Matting
Code	Location	S.Y.	C.Y.	L.F.	L.F.	Ea.	L.F.	Ea.	S.Y.	S.Y.
D-1	577+75 ℄ to 140' Rt.	2	0.26	140		1				125
D-2	579+75 ℄ to 140' Rt.	2	0.26	140		1				14
D-3	578+85 to 580+00 Lt.								153	
D-4	570+00 to 578+71 Lt.				10		906	1		
D-5	570+00 to 578+71 Lt.				10		885	1		
D-6	570+00 to 577+72 Rt.				10		790	1		
D-7	570+00 to 578+71 Rt.				20		922	1		
D-8	577+78 to 578+71 Rt.				10		111	1		
D-9	578+79 to 580+00 Lt.				10		163	1		
D-10	578+79 to 579+72 Rt.				10		111	1		
D-11	579+78 to 580+00 Rt.				10		40	1		
D-12	578+79 to 580+00 Rt.				20		180	2		
D-13	578+79 to 580+00 Lt.				10		135	1		
Total		4	0.52	280	110	2	4243		153	139



FRANKLIN COUNTY
FRA-270-11.59 S



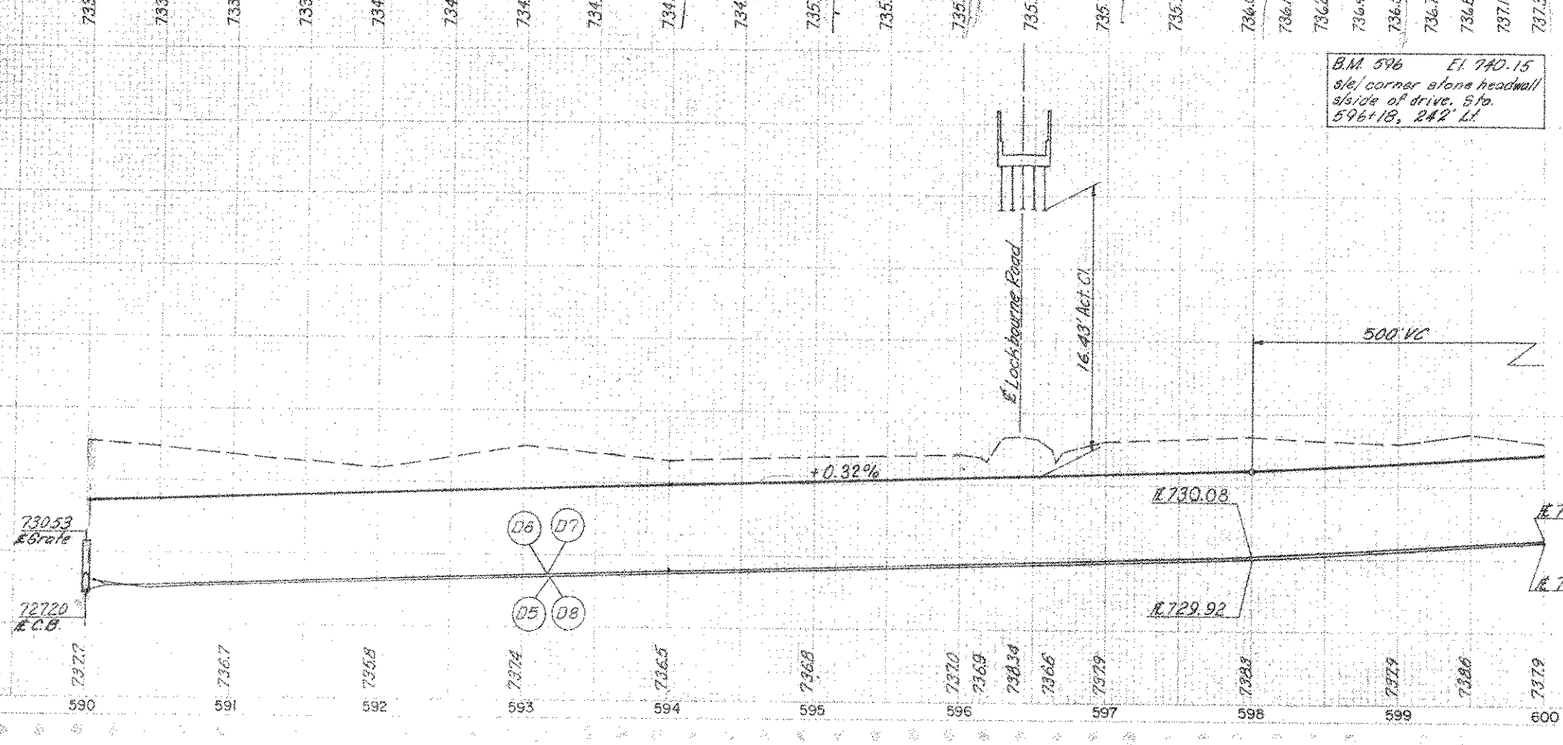


DRAINAGE

Code	Location	601 Dumped Rock Channel Protection C.Y.	Crushed Aggregate Slope Protection S.Y.	602 Concrete C.Y.	15" Conduit Type B, Class B L.F.	603 6" Conduit Type F L.F.	6" Conduit Type B, Class B Standard No.4 Catch Basin Ea.	604 6" Special (Branch) Pipe Underdrain Ea.	6" Special (Bends) Pipe Underdrain Ea.	605 6" Pipe (Deep) Underdrain L.F.	667 Jute Matting S.Y.
D1	590+00, ℄ to 135' Rt.		2	0.26	135		1				125
D2	595+73, 148' Lt.	4									
D3	597+00, 148' Lt.	4									
D4	595+48, Rt.	58									
D5	590+00 to 600+00, Lt.					10	55	1	1	1000	
D6	590+00 to 600+00, Lt.									1000	
D7	590+03 to 600+00, Rt.					10		1		1015	
D8	590+03 to 600+00, Rt.					10		1		1065	
D9	597+00 to 597+60, Rt.	53									
	Total	119	2	0.26	135	30	55	1		1080	125

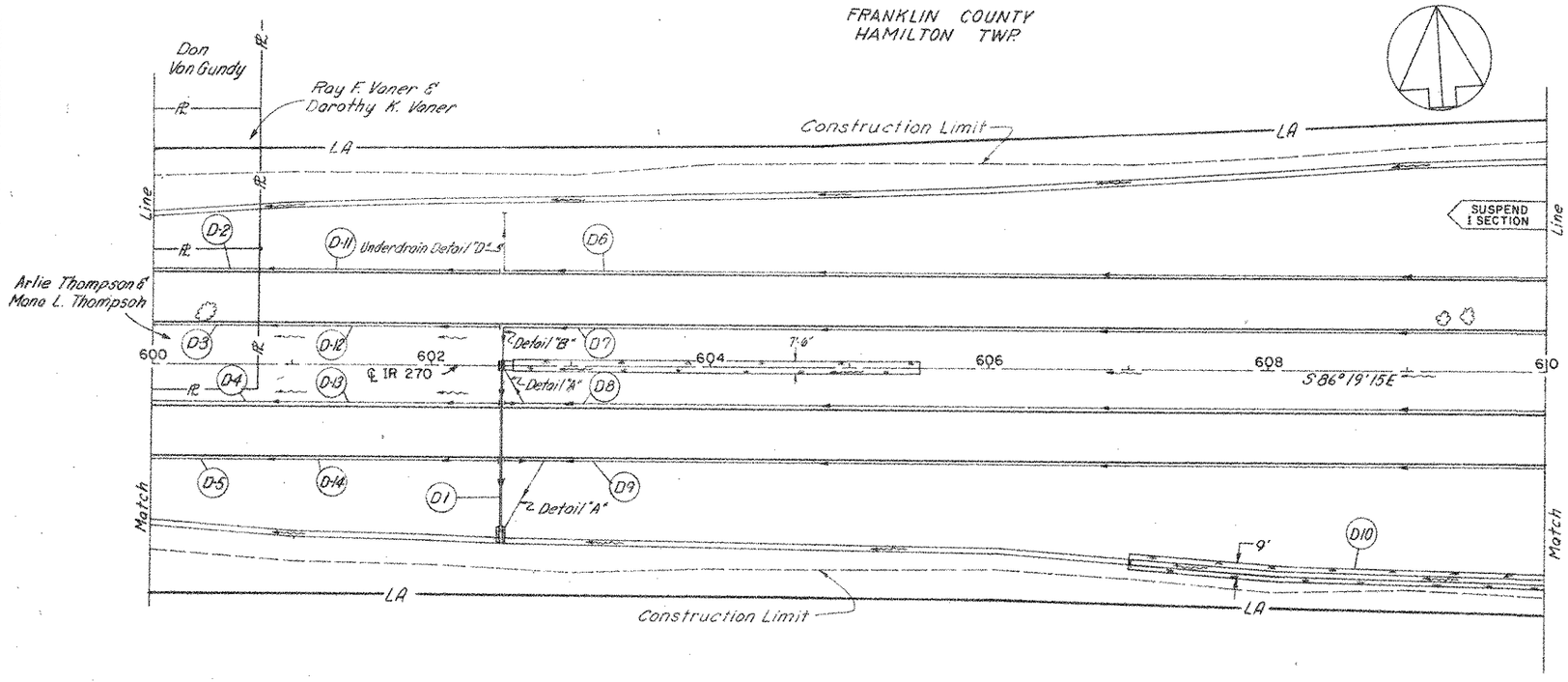
ROADWAY

Code	Location	606 Guard Rail Type A L.F.
R-1	596+27 to 597+27 Lt.	100'
R-2	595+57 to 596+57 Rt.	100'
	Total	200

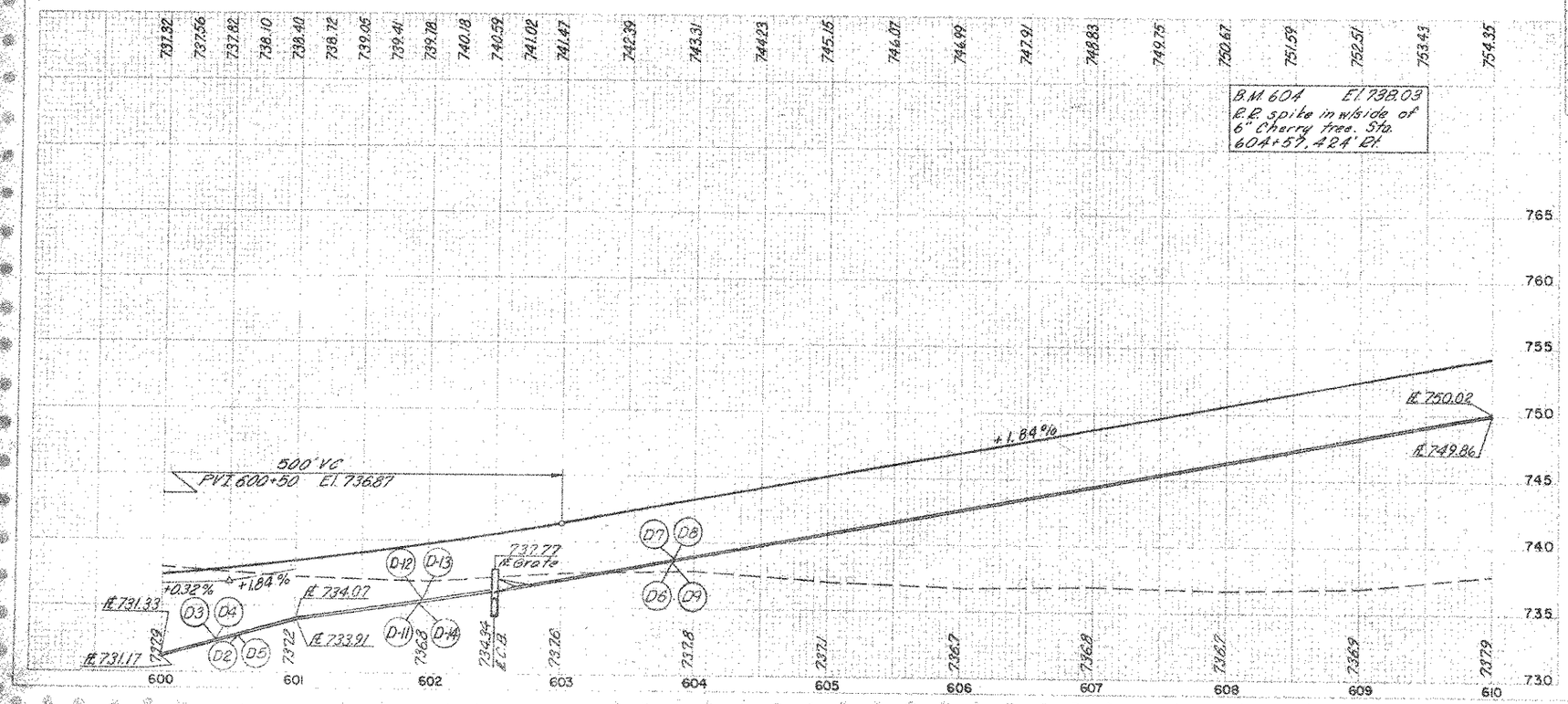


FRANKLIN COUNTY
FRA-270-11.59 S

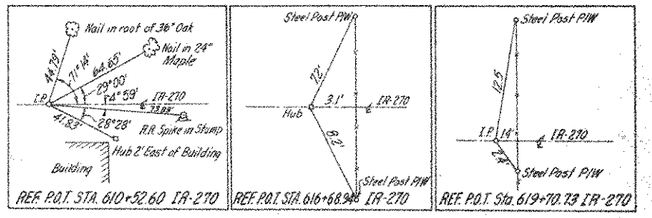
FRANKLIN COUNTY
HAMILTON TWP.

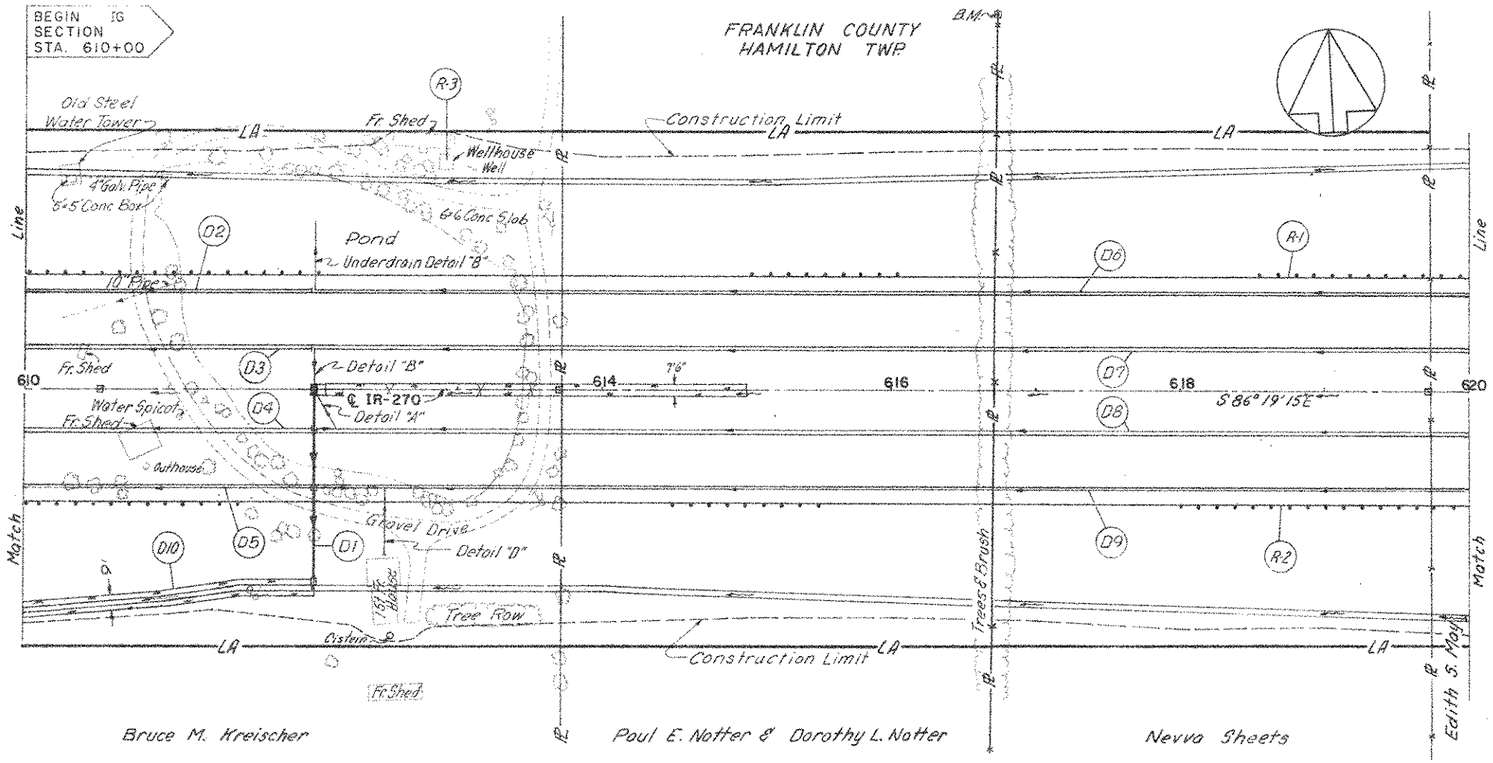


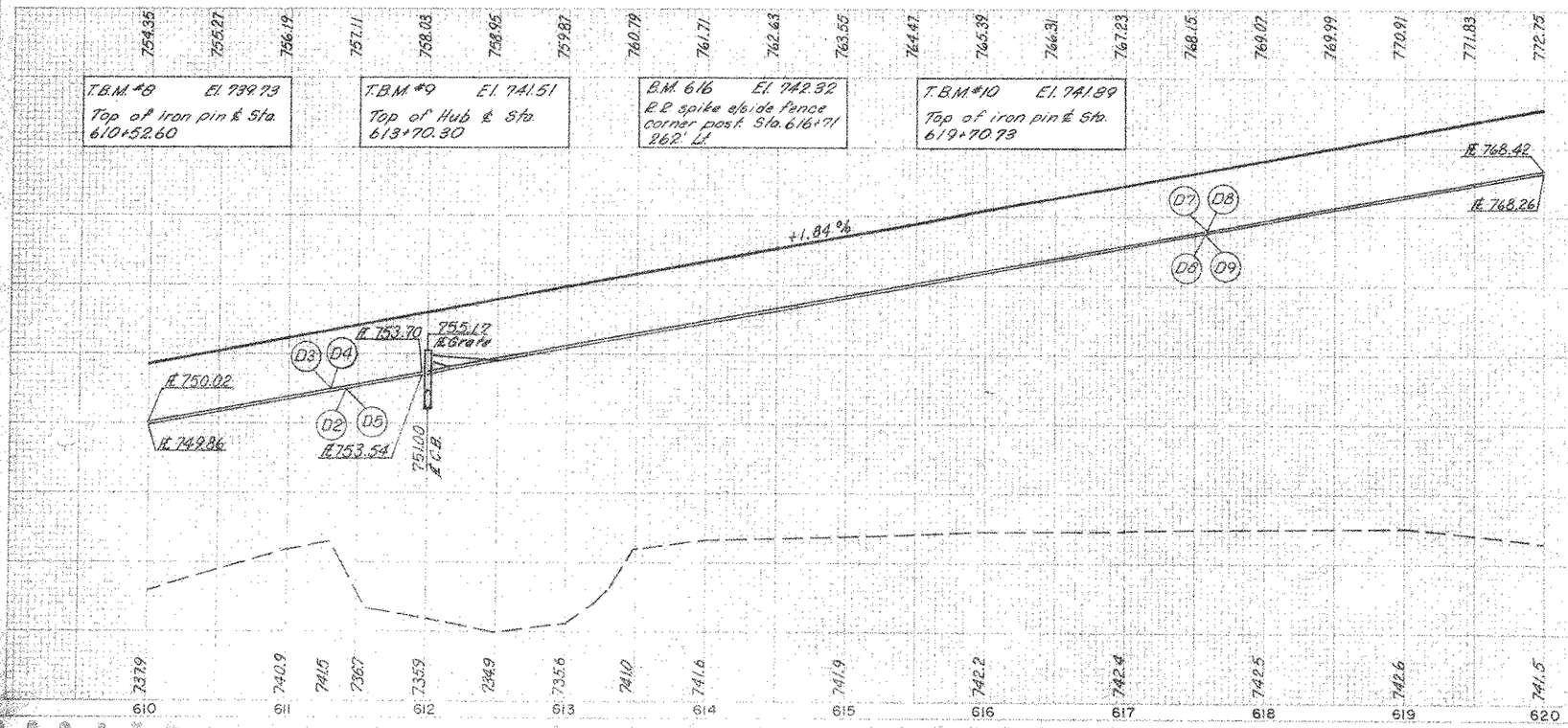
DRAINAGE		601	602		603			604	605				660	667
		Crushed Aggregate Slope Protection	Concrete Masonry	15" Conduit Type B, Class B	6" Conduit Type F			Standard No. 4 Catch Basin	6" Pipe (Shallow) Underdrain	6" Special (Branch) Pipe Underdrain	6" Special (Bends) Pipe Underdrain	6" Pipe (Unclassified) Underdrain	Sodding	Jute Matting
Code	Location	S.Y.	C.Y.	L.F.	L.F.			Ea.	L.F.	Ea.	Ea.		S.Y.	S.Y.
D1	602+50, ℄ to 116' Rt.	2	0.26	116				1						242
D2	600+00 to 601+00 Lt.											100		
D3	600+00 to 601+00 Lt.											100		
D4	600+00 to 601+00 Rt.											100		
D5	600+00 to 601+00 Rt.											100		
D6	602+50 to 610+00, Lt.				10				781		1			
D7	602+50 to 610+00, Lt.				10				764		1			
D8	602+53 to 610+00, Rt.				10				765	1				
D9	602+53 to 610+00, Rt.				10				793	1				
D10	607+00 to 610+00, Rt.												300	
D-11	601+00 to 602+48 Lt.								148					
D-12	601+00 to 602+48 Lt.								148					
D-13	601+00 to 602+47 Rt.								147					
D-14	601+00 to 602+47 Rt.								147					
	Total	2	0.26	116	40			1	3693			400	300	242



FRANKLIN COUNTY
FRA-270-11.59 S







DRAINAGE

Code	Location	601 Crushed Aggregate Slope Protection S.Y.	602 Concrete Masonry C.Y.	603 15" Conduit Type B, Class B L.F.	603 15" Conduit Type F L.F.	603 6" Conduit Type F L.F.	604 Standard No. 4 Catch Basin Ea.	605 6" Special (Branch) Pipe Underdrain Ea.	605 6" Special (Bends) Pipe Underdrain Ea.	605 6" Pipe (Shallow) Underdrain L.F.	605 6" Special (Bend) Conduit Type F Ea.	660 Sodding S.Y.	667 Jute Matting S.Y.
D1	612+00, ℄ to 130' Rt.	2	0.26	85	45		1				2		242
D2	610+00 to 611+97, Lt.									197			
D3	610+00 to 611+97, Lt.									197			
D4	610+00 to 611+97, Rt.									197			
D5	610+00 to 611+97, Rt.									197			
D6	612+00 to 620+00, Lt.					10			3	852			
D7	612+00 to 620+00, Lt.					10			1	814			
D8	612+03 to 620+00, Rt.					10		1		818			
D9	612+03 to 620+00, Rt.					10		1	2	843			
D10	610+00 to 612+00, Rt.											200	
	IR Section Total	2	0.26	85	45	40	1			4115		200	242

ROADWAY

Code	Location	606 Guard Rail Type 4 L.F.	Special Drilled Well Abandoned Ea.
R-1	610+00 to 620+00 Lt.	1000'	
R-2	610+00 to 620+00 Rt.	1000'	
R-3	612+90 160' Lt.		1
	Total	2000	1

IR 270 OVER CHESAPEAKE & OHIO R.R

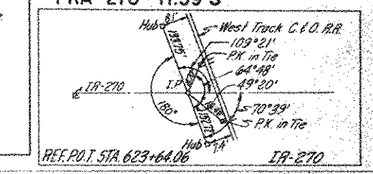
PROPOSED STRUCTURE FRA-270-13265

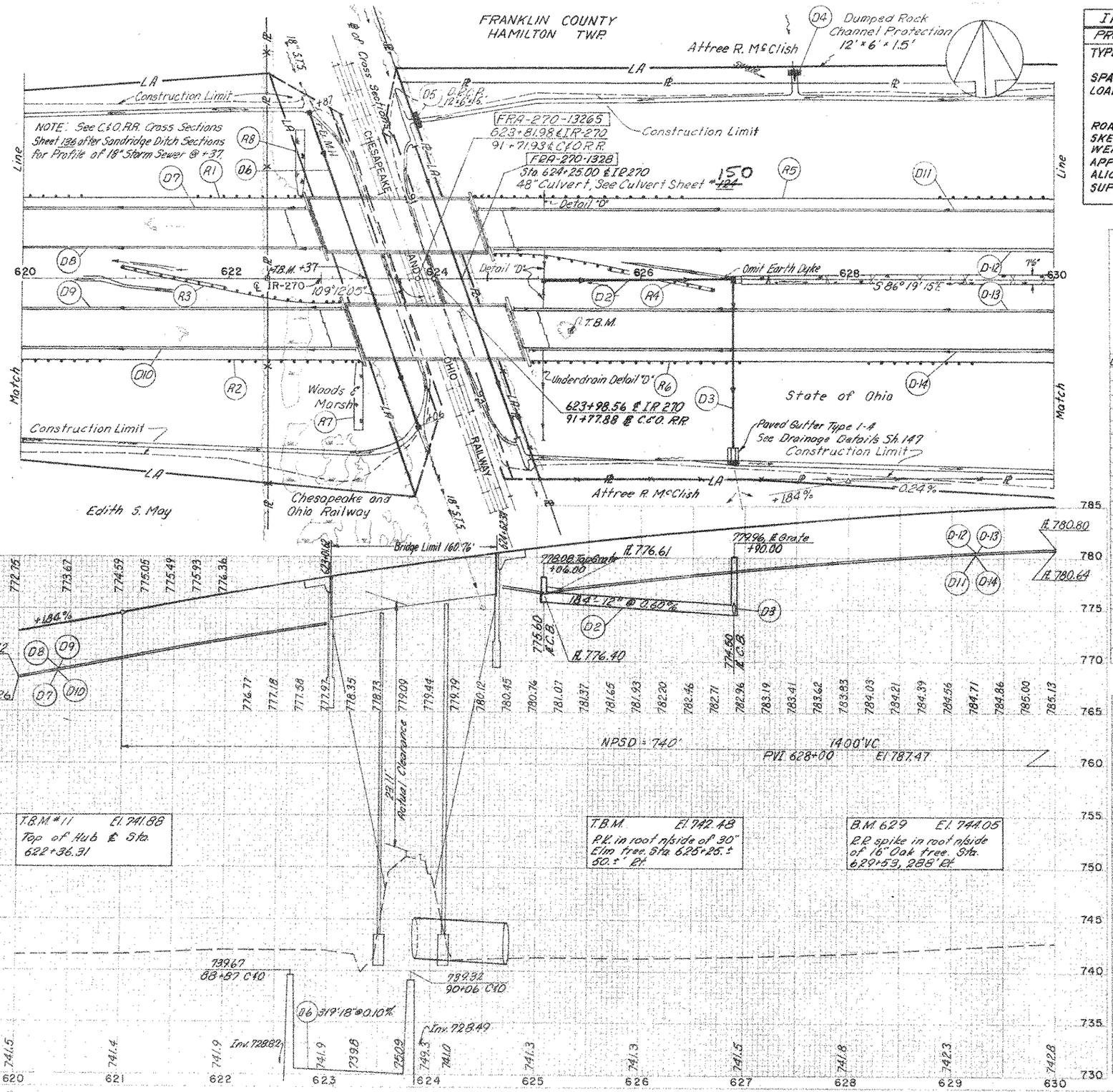
TYPE: 3 Span cont. steel beam with reinf. conc. deck and "T" type piers.
SPAN: 48'-0", 60'-0", 48'-0" c/c Brgs.
LOAD FREQUENCY RATING: CF-2000 (51)
Adequate for AASHO alternate loading.

ROADWAY: 2@52'-0" c/c of parapets
SKEW: 19°18'05" Rt. Fwd.
WEARING SURFACE: 1" Monolithic conc.
APPROACH SLABS: AS-1-54 (25' long)
ALIGNMENT: Tangent
SUPERELEVATION: None

DIST.	STATE	PROJECT		SHEET NO.
2	OHIO			36 / 332

FRANKLIN COUNTY
FRA-270-11.59 S

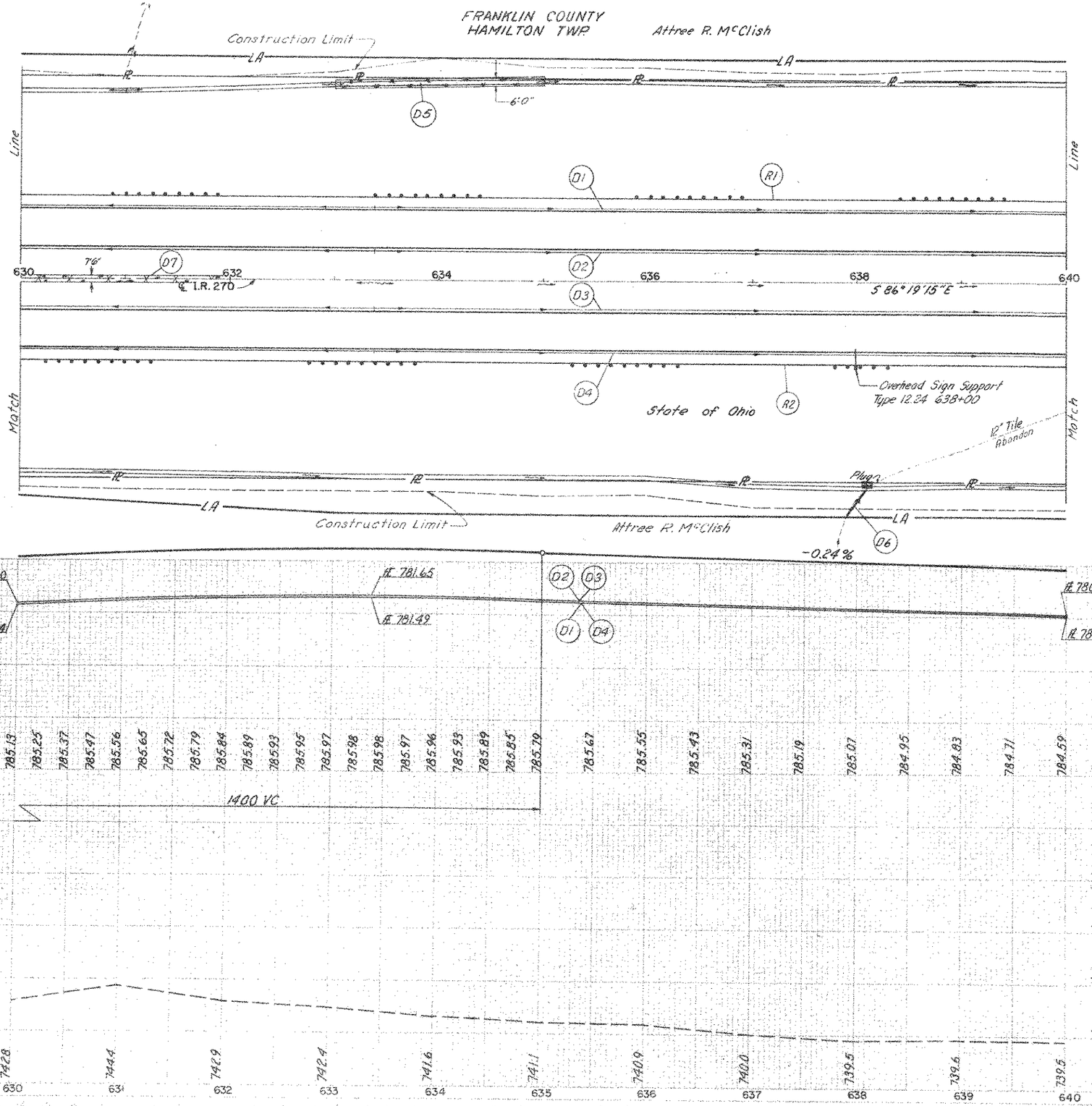




DRAINAGE		IG Section 601 Paved Gutter Type 1-A	601 Dumped Rock	602.660 Crushed Aggregate	602.660 Concrete Masonry	603 Sodding	603 Conduit 12" Type C, Class B	603 Conduit 15" Type B, Class B	603 Conduit 15" Type F	603 Conduit 18" Type C, Class B (706.02 Class 'A')	604 Catch Basin Std. No. 2-2-8	604 Catch Basin Std. No. 2-3	604 Catch Basin Std. No. 4	609.667 6" Pipe Underdrain Backfill	609.667 Jute Matting	Special (Conduit Type F - Bend)	Special (6" Pipe Underdrain - Bend)	Special (6" Pipe Underdrain - Branch)
Code	Location	L.F	C.Y	S.Y	C.Y	S.Y	L.F	L.F	L.F	L.F	Ea	Ea	Ea	L.F	S.Y	Ea	Ea	Ea
D2	625+06 to 626+90						184				1							
D3	626+90 ℄ to 162' Rt.	10		2	0.26	4		90	72				1	250		2		
D4	627+48 L.		4															
D5	623+80 L.		4															
D6	622+77 L. to 623+84 Rt.									319		2						
D7	620+00 to 622+74 L.													274				
D8	620+00 to 622+87 L.													287				
D9	620+00 to 623+08 Rt.													308				
D10	620+00 to 623+22 Rt.													322				
D11	624+41 to 630+00 L.						10							645				1
D12	624+56 to 630+00 L.						10							558				1
D13	624+76 to 630+00 Rt.						20							523				1
D14	624+91 to 630+00 Rt.						20							594				2 1
	IG Section Total	10	8	2	0.26	4	60	184	90	72	319	1	2	1	3946	250		

ROADWAY		606 Guard Rail Type A	606 Guard Rail Barrier Type A		660 Sodding For Special Berm
Code	Location	L.F	L.F		S.Y.
R-1	619+95 to 622+70 Lt.	275'			
R-2	620+02 to 623+27 Rt.	325'			
R-3	620+94.5 to 623+07	112.5	100		
R-4	624+59 to 626+71.5	112.5	100		
R-5	624+37.5 to 630+00 Lt.	562.5'			
R-6	624+93.5 to 630+00 Rt.	506.5			
R-7	622+70 Lt.				67
R-8	623+25 Rt.				70
	Total	1894	200		137

FRANKLIN COUNTY
FRA-270-11.59S



DRAINAGE

		I-6 Section Quantities 601	603		605	660		667
		Crushed Aggregate Slope Protection	12" Conduit Type E	12" Conduit Type F	6" Pipe (Shallow) Underdrain	Seeding		Jute Matting
			L.F.	L.F.	L.F.	S.Y.		S.Y.
D1	630+00 to 640+00 Lt.				1000			
D2	630+00 to 640+00 Lt.				1000			
D3	630+00 to 640+00 Rt.				1000			
D4	630+00 to 640+00 Rt.				1000			
D5	633+00 to 635+00 Lt.					134		
D6	638+00 Rt.	2	20	10				
D7	630+00 to 632+00 ℄							167
I6 Section	Total	2	20	10	4000	134		167

ROADWAY

Code	Location	606 Guard Rail Type 4 LF
R1	630+00 to 640+00 Lt	1000
R2	630+00 to 640+00 Rt	1000
	Total	2000

I.R. 270 OVER OBETZ-REESE ROAD NORFOLK & WESTERN RAILWAY

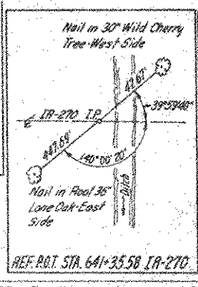
PROPOSED STRUCTURE FRA-270-

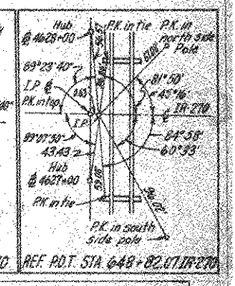
TYPE: 4 Span Continous Steel Beams with reinf. conc. deck and substructure.
SPAN: 44'-0", 55'-0", 55'-0" 44'-0" ℄ Brgs.
LOAD FREQUENCY RATING: CF=2000 (57) Adequate for AASHO alternate loading.

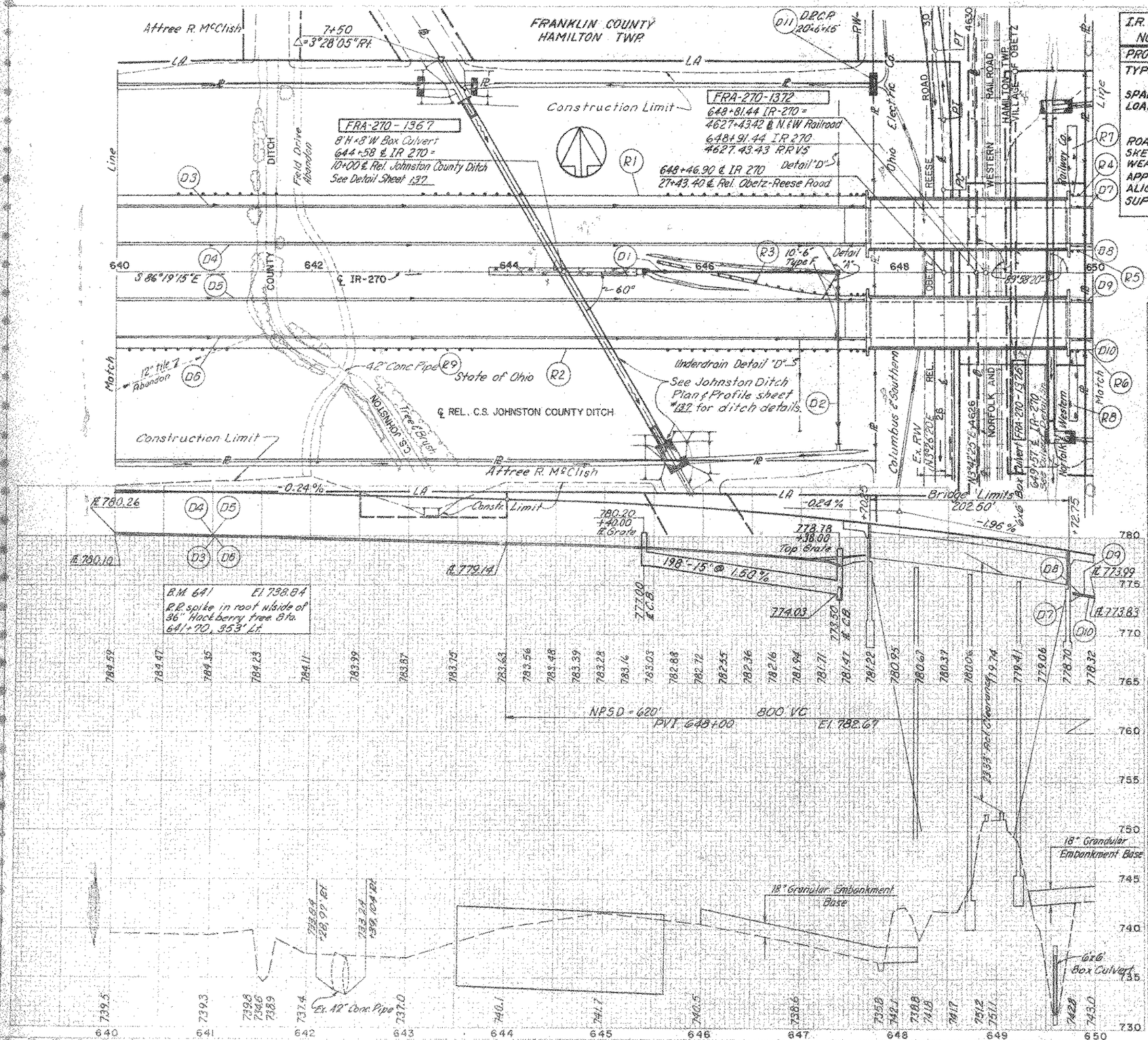
ROADWAY: 2@ 52'-0" ℄ of parapets
SKEW: None
WEARING SURFACE: 1" Monolithic Concrete
APPROACH SLABS: AS-1-54 (25' long)
ALIGNMENT: Tangent
SUPERELEVATION: None

Note: Granular Embankment Base Shall be placed from Sta 646+00 to 648+25 and 649+25 to 653+00 as Detailed in the Cross Sections and General Notes.

FRANKLIN COUNTY
FRA-270-11.59 S







DRAINAGE

		IG Section										Quantities									
		601	602	609					604	605	607	601	Special								
				Conduit					Catch Basin												
		Crushed Aggregate	Concrete Masonry	6" Type F	15" Type A&B	15" Type C&D	15" Type F	16" Type F	St'd No. 22.8	St'd No. 4	6" Type Underdrain Shallow	Joint Melting	Dumped Rock	15" Type F (Bends)	6" Type Underdrain - Bend	6" Type Underdrain - Branch					
Code	Location	S.Y.	C.Y.	L.F.	L.F.	L.F.	L.F.	Ea.	Ea.	Ea.	L.F.	S.Y.	C.Y.	Ea.	Ea.	Ea.					
D1	645+10 to 647+38 ℄				198				1		135										
D2	647+38 ℄ to 174' R.	2	0.26		88		86	1						2							
D3	640+00 to 647+65 L.			10						847					2	1					
D4	640+00 to 647+65 L.			10						783						1					
D5	640+00 to 647+65 R.			20						773						1					
D6	640+00 to 647+65 R.			20						840					2	1					
D7	649+78 to 650+00 L									22											
D8	649+78 to 650+00 L									22											
D9	649+78 to 650+00 R									22											
D10	649+78 to 650+00 R									22											
D11	647+75, Lt													8							
	IG Section Total	2	.026	60	88	198	86	1	1	3391	135										

ROADWAY

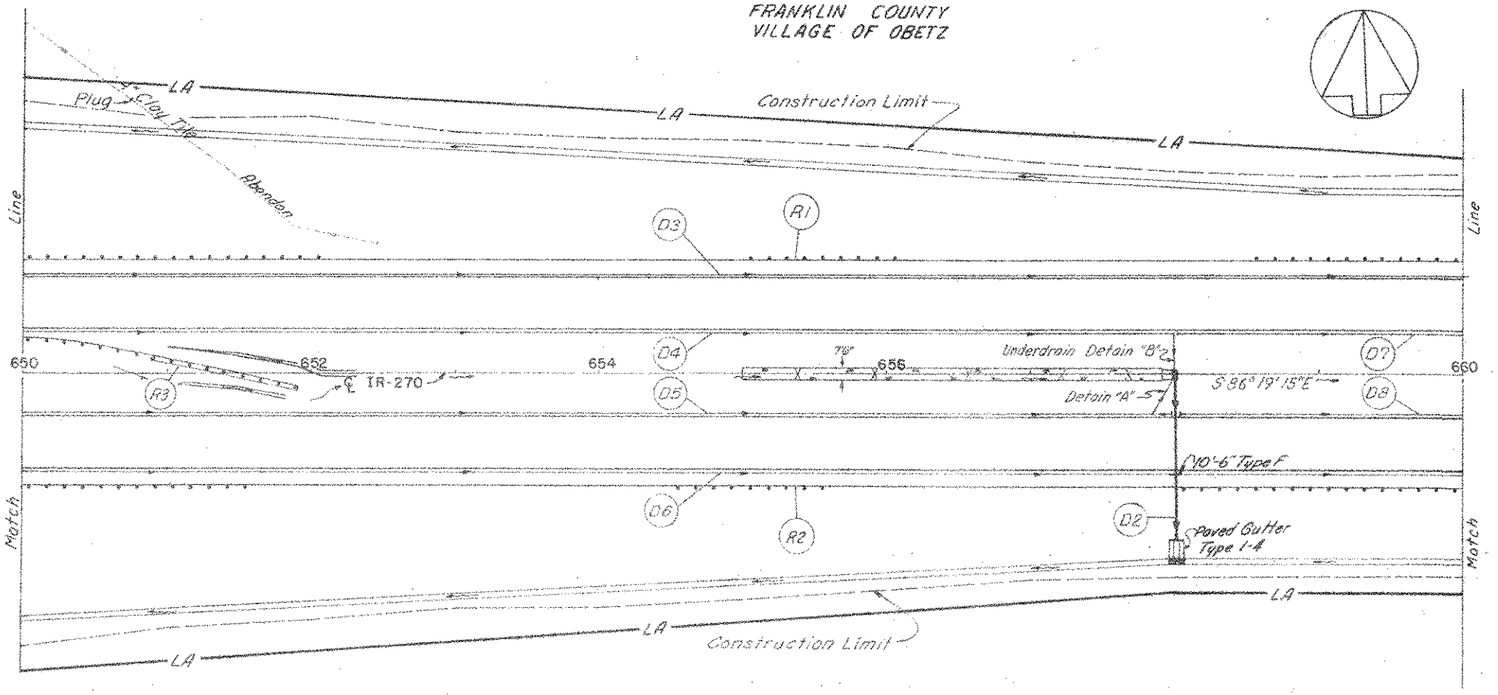
		606		202	660
		Guard Rail Type A	Guard Rail Barrier Type 4	Pipe Removed Over 24"	Sodding Special Berm
Code	Location	L.F.	L.F.	L.F.	S.Y.
R-1	640+00 to 647+62.5 Lt.	762.5			
R-2	640+00 to 647+68.5 Rt.	768.5			
R-3	645+50 to 647+68.5	112.5	100		
R-4	649+78 to 650+00 Lt.	22			
R-5	649+78 to 650+00	22			
R-6	649+78 to 650+00	22			
R-7	649+80, 80' Lt				79
R-8	649+80, 80' Rt				82
R-9	642+35, 100' Rt			15	
	Total IG	1709.5	100	15	161

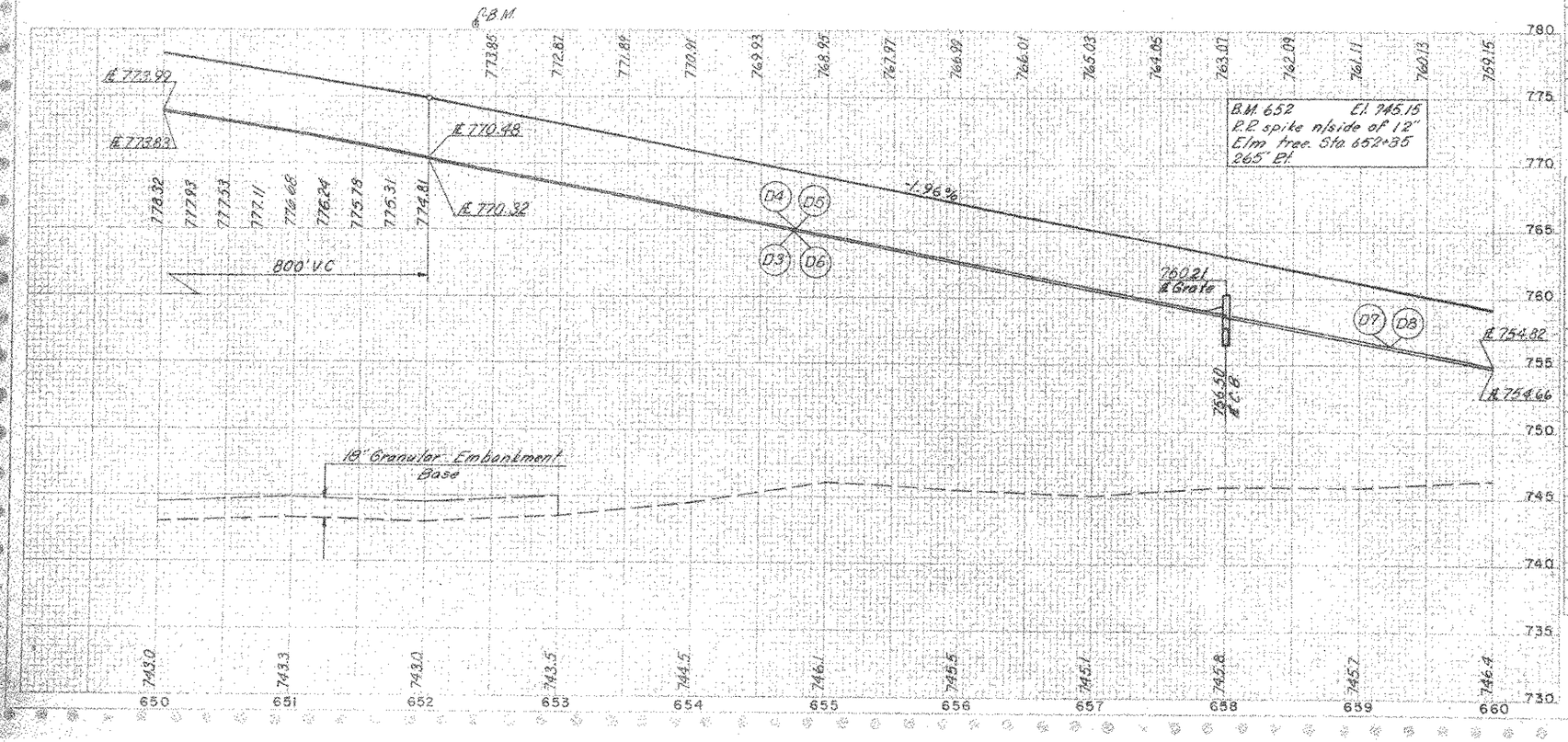
SHEET NO.	TOTAL SHEETS	PROJECT NO.	
2	UNO		

39
332

FRANKLIN COUNTY
FRA-270-11.59 S

FRANKLIN COUNTY
VILLAGE OF OBETZ





DRAINAGE		I-6 Section 601	602	603			604	605	Quantities Special			660	601
		Paved Gutter Type 1-4	Concrete Masonry	15" Conduit Type B, Class B	15" Conduit Type F	6" Conduit Type F	Standard No. 4 Catch Basin	6" Pipe (Shallow) Underdrain	6" Special (Branch) Pipe Underdrain	15" Special Bends Type F	6" Special (Bends) Pipe Underdrain	Sodding	Slope Mulching
Code	Location	L.F.	C.Y.	L.F.	L.F.	L.F.	Ea.	L.F.	Ea.	Ea.	Ea.	S.Y.	S.Y.
D2	658+00 ℄ to 116 Rt.	10	0.26	83	31		1			2		1	282
D3	650+00 to 660+00 Lt.							1000					
D4	650+00 to 658+00 Lt.					10		814			1		
D5	650+00 to 657+97 Rt.					10		815	1				
D6	650+00 to 660+00 Rt.					10		990					
D7	658+03 to 660+00 Lt.							197					
D8	658+03 to 660+00 Rt.							197					
	I-6 Section Total	10	0.26	83	31	30	1	1013				1	282

ROADWAY		606 Guard Rail Type 4	Guard Rail Barrier Type A
Code	Location	LF	LF
R-1	650+00 to 660+00 Lt	1000'	
R-2	660+00 to 670+00 Rt	1000'	
R-3	650+00 to 651+90.5	90.5'	100'
	Total	2090.5	100

2	OHIO		

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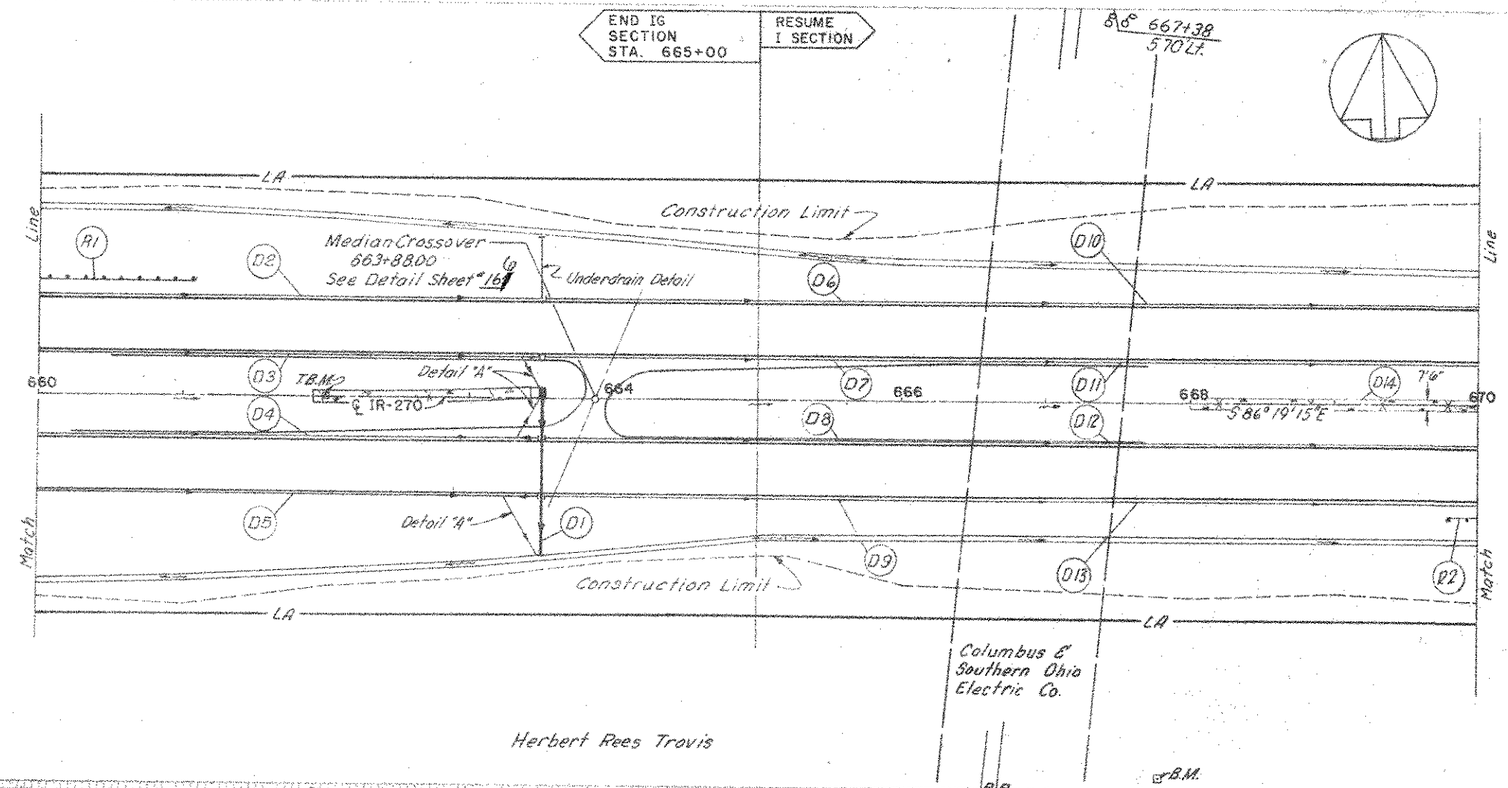
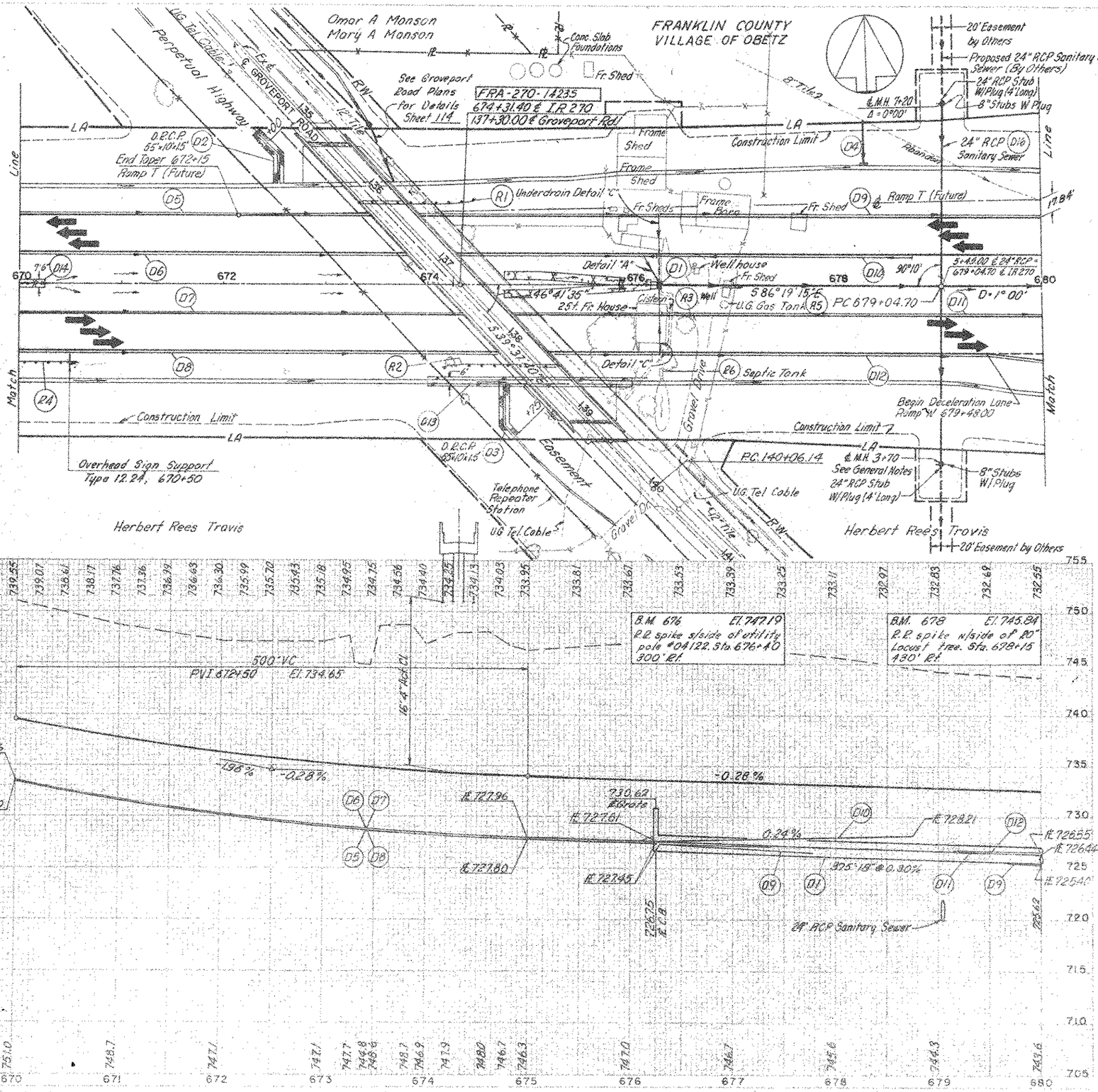
FRANKLIN COUNTY
FRA-270-11.59 S



DRAINAGE		602	603		604	605			Special	607
		Concrete Masonry	15" Conduit Type B Class B		6" Conduit Type F	Standard No. 4 Catch Basin	6" Pipe (Shallow) Underdrain	6" Pipe (Deep) Underdrain	6" Pipe (Unclassified) Underdrain	6" Special (Bend) Pipe Underdrain	6" Special (Bend) Pipe Underdrain	Wire
Code	Location	C.Y.	L.F.		L.F.	Ea.	L.F.	L.F.	L.F.	Ea.	Ea.	S.Y.
D-1	663+50, 3' Lt. to 109' Rt.	*0.26	*112			*1						*72
D-2	660+00 to 663+50 Lt.				*10		*380			*1		
D-3	660+00 to 663+50 Lt.				*10		*364				*1	
D-4	660+00 to 663+47 Rt.				*10		*365				*1	
D-5	660+00 to 663+47 Rt.				*10		*385				*1	
D-6	663+53 to 666+50 Lt.						*147		150			
D-7	663+53 to 666+50 Lt.						*147		160			
D-8	663+53 to 666+50 Rt.						*147		150			
D-9	663+53 to 666+50 Rt.						*147		150			
D-10	666+50 to 670+00 Lt.							450				
D-11	666+50 to 670+00 Lt.							450				
D-12	666+50 to 670+00 Rt.							450				
D-13	666+50 to 670+00 Rt.							450				
D-14	668+00 to 690+00 ℄											16
	I Section Total								1800	600		160
	*IG Section Total	0.26	112		40	1	2082					160
	Total	0.26	112		40	1	2082	1800	600			320

Pavement quantities for Median crossover, Sta. 663+88 found on sub-summary sheet 26

ROADWAY		606			
		Guard Rail Type 4			
Code	Location	LF			
R1	660+00 to 661+03 Lt	*103'			
R2	669+78 to 670+00	22'			
R3	660+00 to 661+03 Rt	*103			
	I Section Total	22			
	*IG Section Total	206			
	Total	228			



DRAINAGE

Code	Location	601 Crushed Aggregate (CY)	601 Dumped Rock (CY)	603 6" Conduit Type E (LF)	603 18" Conduit Type C, Class B (LF)	603 6" Conduit Type B, Class B (LF)	603 8" Conduit Type E (LF)	603 8" Conduit Type B (LF)	604 Standard No. 4 Catch Basin (Ea)	604 8" Special (Bend) Type E (Ea)	604 24" Special (Bend) (Ea)	605 6" Pipe Underdrain (LF)	605 6" Special (Branch Pipe Underdrain (Ea)	660 Seeding (SY)	667 Jute Matting (SY)
D1	676+25 to 680+00			375					1						24 ♀
D2	672+53, Lt.		30												
D3	674+75, Rt.		26												
D4	678+26, 119Lt to 160' Lt.	2					31	10		1					
D5	670+00 to 676+25, Lt.			10		55					1	625	1		
D6	670+00 to 676+22, Lt.			10								640	1		
D7	670+00 to 676+25, Rt.											625			
D8	670+00 to 676+25, Rt.			10		55					1	625	1		
D9	676+28 to 680+00, Lt.											372			
D10	676+25 to 678+75, Lt.											250			
D11	676+28 to 680+00, Rt.											372			
D12	676+28 to 680+00, Rt.										1	372			
D13	674+00 to 676+00, Rt.													194	
D14	670+00 to 670+25 ℄														21
See additional drainage items below															
Total		2	56	30	375	110	31	10	1			3881		1.94	283

ROADWAY

Code	Location	606 Guard Rail Type 4 (LF)	Special Underground Tank Removal (Ea.)	Special Disposal of Septic Tank (Ea.)	SPECIAL Drilled Well Abandoned (Ea.)
R1	673+33 to 674+45.5' Lt	112.5			
R2	674+16.5 to 675+29' Rt	112.5			
R3	676+35, 25' Rt.				1
R4	670+00 to 670+53 Rt.	53			
R5	676+90, 20' Rt.		1	1	
R6	676+30, 80 Rt.				
Total		278.0	1	1	1

DRAINAGE (SANITARY SEWER)

Code	Location	604 No. 2 Manhole Modified as Per Plan (Ea.)	603 24" Conduit Type B (706.02 Class II) Class B ♯ (LF)
D-10	679+04.76 (175' Lt to 175' Rt.)	2	358

♯ Note: RCP shall be tongue and groove to receive rubber gaskets. All joints including stubs will accommodate compression joints.

STATION EQUATION
P.C.1 683+15.00 IR 270 =
683+15.00 Ramp T (Future)

FRANKLIN COUNTY
VILLAGE OF OBETZ

FRA-270-1146
20'Single Span Reinforced Concrete Slab.
10°00 Rel. Boehm County Ditch
686+90.00 IR-270

NOTE See Sheet 139 for Boehm Ditch Details

LA — Construction Limit — Match Line — Woods — Future Ramp T — Begin Taper 687+98.57 — TS 686+15.00 — Omit Earth Dyke — IR-270 — Underdrain Detail "C" — D=1°00' — See Signing Plan for Guardrail Details & Quantities — Overhead Sign Support Type 9.24, 688+04.05 Rt — RAMP W — D=00°30' — COUNTY DITCH — PT 688+74.00 — PC2 689+81.09 — BOEHM — 687+52 Ramp W Nose — 687+48 IR 270 — See Culvert Detail Sheet 155 for Erosion Control Quantities — Plug — Herbert Rees Travis

STATION EQUATION
PC1 683+00.00 Ramp W
683+00.00 IR 270

D1 D2 D3 D4 D5 D6 D7 D8 D9 D10 D11 D12 D13 R1 R2 R3 R4

DRAINAGE		603					Special	604			605	606
		6" Conduit Type B, Class B	6" Conduit Type F	18" Conduit Type C, Class B	12" Conduit Type C Class B		6" Special (Bend) Pipe Underdrain	6" Special (Branch) Pipe Underdrain	Standard No. 1 Manhole	Standard No. 4 Catch Basin	Standard No. 2 Catch Basin	6" Pipe (Deep) Underdrain	Jute Matting
Code	Location	L.F.	L.F.	L.F.			Ea.	Ea.	Ea.	Ea.	Ea.	L.F.	S.Y.
D1	680+00 to 680+25, ℄			25									
D2	680+25 to 684+45, ℄			480					1				125
D3	684+45 to 686+25, ℄			205						1			
D4	686+25 to 686+79, ℄			54							1		
D5	687+00 to 687+50 ℄				50						1		
D6	680+00 to 687+02 Lt.		10									692	
D7	680+00 to 680+25, Rt.											25	
D8	680+27 to 686+72 Rt.		10									637	
D9	680+00 to 680+25, Rt.	68	10					1	1			25	
D10	680+28 to 683+00, Rt.											272	
D11	687+29 to 690+00, Lt.											271	
D12	686+96 to 690+00, Rt.											304	
D13	687+75 to 690+00, Rt.											225	
	Total	68	30	764	50			1	1	2	2451		125

ROADWAY		606			
		Guard Rail Type 4	Guard Rail Barrier Type 4		
Code	Location	L.F.	L.F.		
R-1	686+30 to 686+80 Lt.	50.0			
R-2	687+05 to 689+17.5 Lt.	112.5	100		
R-3	684+50.5 to 686+63 Rt.	112.5	100		
R-4	687+00 to 687+50 Rt.	50.0			
	Total	325.0	200		

IR-270 OVER BOEHM DITCH
PROPOSED STRUCTURE FRA-270-1446
TYPE: Single Span Reinforced Concrete
SPAN: 20.00' Face to Face Abutments
LOAD FREQUENCY RATING: CF=2000 (57)
(Adequate for AASHO Alternate Loading)
ROADWAY: Varies
SKEW: 16°12'15" Left Forward
WEARING SURFACE: 1" Monolithic
APPROACH SLABS: 25' Long
ALIGNMENT: D=1°00'
SUPERELEVATION: 0.032 ft

SHEET NO.	STATE	PROJECT	
2	OHIO		

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FRANKLIN COUNTY
FRA-270-11.59S

B.M 685 El. 799.52
P.K. spike n/side 30" Wild Cherry Tree. Sta. 685+10 7.5' Rt.

T.B.M #14 El. 744.48
Top of Hub ℄ Sta. 686+00

T.B.M #15 El. 799.15
Top of Hub ℄ Sta. 689+00

Bridge Limits — ℄ Reloc. Section County Ditch

D1 729.81 Top Conc. 728.89 ℄ 727.84
D2 420'-18"@ 0.30%
D3 180'-18"@ 0.60%
D4 52'-18"@ 3.08%
D5 50'-12"@ 3.34%
D6 ℄ 720.40 CB
D7 25'-18"@ 0.30%
D8 ℄ Grate 727.87
D9 ℄ 726.55 ℄ 726.44 ℄ 725.40 ℄ 726.49 ℄ 725.54 ℄ 724.29 ℄ 724.28
D10 ℄ 726.76
D11 ℄ 721.50 CB
D12 ℄ 722.38
D13 ℄ 723.37 ℄ Grate ℄ 725.61 ℄ 724.99 ℄ 723.64
℄ 728.82 ℄ Grate ℄ 724.48 ℄ 724.55 ℄ 723.21 ℄ 723.44 720.00 720.00

732.56 732.41 732.27 732.13 731.99 731.85 731.71 731.57 731.43 731.29 731.15 731.01 730.87 730.73 730.59 730.45 730.31 730.17 730.03 729.89 729.75
743.6 744.1 740.8 740.7 742.4 745.0 744.4 741.3 743.9 745.4 744.5 741.0 736.7 732.2 726.4 726.1 728.4 730.3 739.2 742.6 744.8
680 681 682 683 684 685 686 687 688 689 690
755 750 745 740 735 730 725 720 715 710 705

IR-270 PLAN & PROFILE 680 TO 690

2	OHIO		

FRANKLIN COUNTY
FRA-270-11.59S

State of Ohio — FRANKLIN COUNTY — VILLAGE OF OBETZ

N 18°54'21"E

FRA-270-14655 & 14665
697+35.69 ℄ IR 270
50+00 ℄ Rel. Alum Creek Dr.

Woods — Gravel Dr. — Fr Sheds — Woods

D.R.C.P. 10+93.15

10'6" Type F

Under Drain Detail "C"

Detail "A"

Detail "B"

℄ IR-270 — ℄ REL. ALUM CREEK DRIVE

℄ ALUM CREEK (Abandoned) DRIVE

D=1°00' — D=6°00'

RAMP W

Herbert Rees Travis

Robert L. Collins

See Sheet 133 for Storm Sewer profile

Station Equation
699+38.57 Back = X
699+36.55 Ahead = IR 270

Match — Match

690 692 694 696 698 700

D1 D2 D3 D4 D5 D6 D7 D8 D9 D10 D11 D12 R1 R2

+95 118' Rt. — +00 145' Rt. — +00 96' Rt. — +00 106' Rt.

1/4 Point - EP
Sta 693+10.83
Nail in East side 12" Elm
Nail in Root East side 24" Maple
Nail in North side 26" Oak
Nail in West side 24" Ash
Nail in Root East side 28" Ash
Nail in North side 24" Oak
Hub 83.32
Sta 692+13.43
REF. P.O.I. STA. 692+13.43 IR-270

RR Spike in Guard Rail Post
111°03' Tan.
I.P.
5°20'
P.K. in Guard Rail Post
Alum Creek Drive
Old Alum Creek Drive
REF. P.O.I. STA. 698+05.96 IR-270

T.B.M. #16 El 746.18
Iron Pin P.O.C. Sta. 693+10.83

B.M. 697 El 747.25
P.P. spike w/side of 96" Oak tree. Sta. 697+10 360' Rt.

PVI 697+00 El. 727.79
600' VC

-0.28% — +0.28% — -0.54% — +0.20%

225.27 ℄ E Grate — 226.00 Ex Top Grate — 196.82 ℄ E Grate — 196.00 Ex Top Grate

E 724.99 — E 723.64 — E 722.38 — E 723.74 — E 722.97 — E 722.97 — E 722.25 — E 722.00 — E 723.87 — E 722.52 — E 721.90 — E 720.55

215' 27" @ 0.40% — 308' 24" @ 0.40% — 200' 24" @ 0.43%

Note: See storm sewer detail & profile on sheet 139

DRAINAGE	601	602	603 Conduit						604	604	605		607
	Dumped Rock	Concrete Masonry	6" Type B, Class B	6" Type F	18" Type B, Class B	24" Type C, Class B	27" Type C, Class B, 2 1/2" x 1/2" Corr. Steel Helical Pipe	42" Type B, 2 1/2" x 1/2" Corr. Steel Helical Pipe	Standard No. 4 Catch Basin	Standard No. 2, 3 Catch Basin	6" Pipe (Deep) Underdrain	6" Special (Branch) Pipe Underdrain	Sod Furnishing
Code Location	C.Y.	C.Y.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	Ea.	Ea.	L.F.	Ea.	S.Y.
D1 690+95 to 693+00, Rt.							216			1			
D2 693+00 to 696+00, Rt.						308				1			
D3 696+00 ℄ to 93 Rt.					93				1				125
D4 696+00 to 698+00 Rt.						200				1			
D5 698+00 ℄ to 186 Rt.					(106)				1				125
D6 690+00 to 699+99, Lt.			83	20							989	1	
D7 690+00 to 695+97, Rt.				20							605	1	
D8 690+00 to 695+97, Rt.				20							605	1	
D9 696+03 to 697+91, Rt.				10							212	1	
D10 696+03 to 700+00, Rt.				20							415	1	
D11 698+03 to 700+00, Rt.				10							215	1	
D12 690+95 Lt. to Ex.	18	76						180					
Total	18	76	83	100	199	508	216	180	2	3	3041		250

ROADWAY	606 Guard Rail Type 4
Code Location	LF
R-1 697+54 to 699+29 Lt.	175'
R-2 695+31 to 697+31 Rt.	200'
Total	375

IR-270 PLAN & PROFILE 690 to 700

SHEET NO. OF SHEETS	STATE	PROJECT		
2	OHIO			

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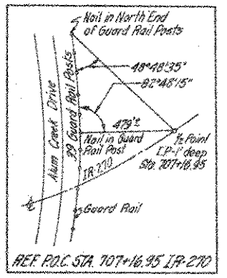
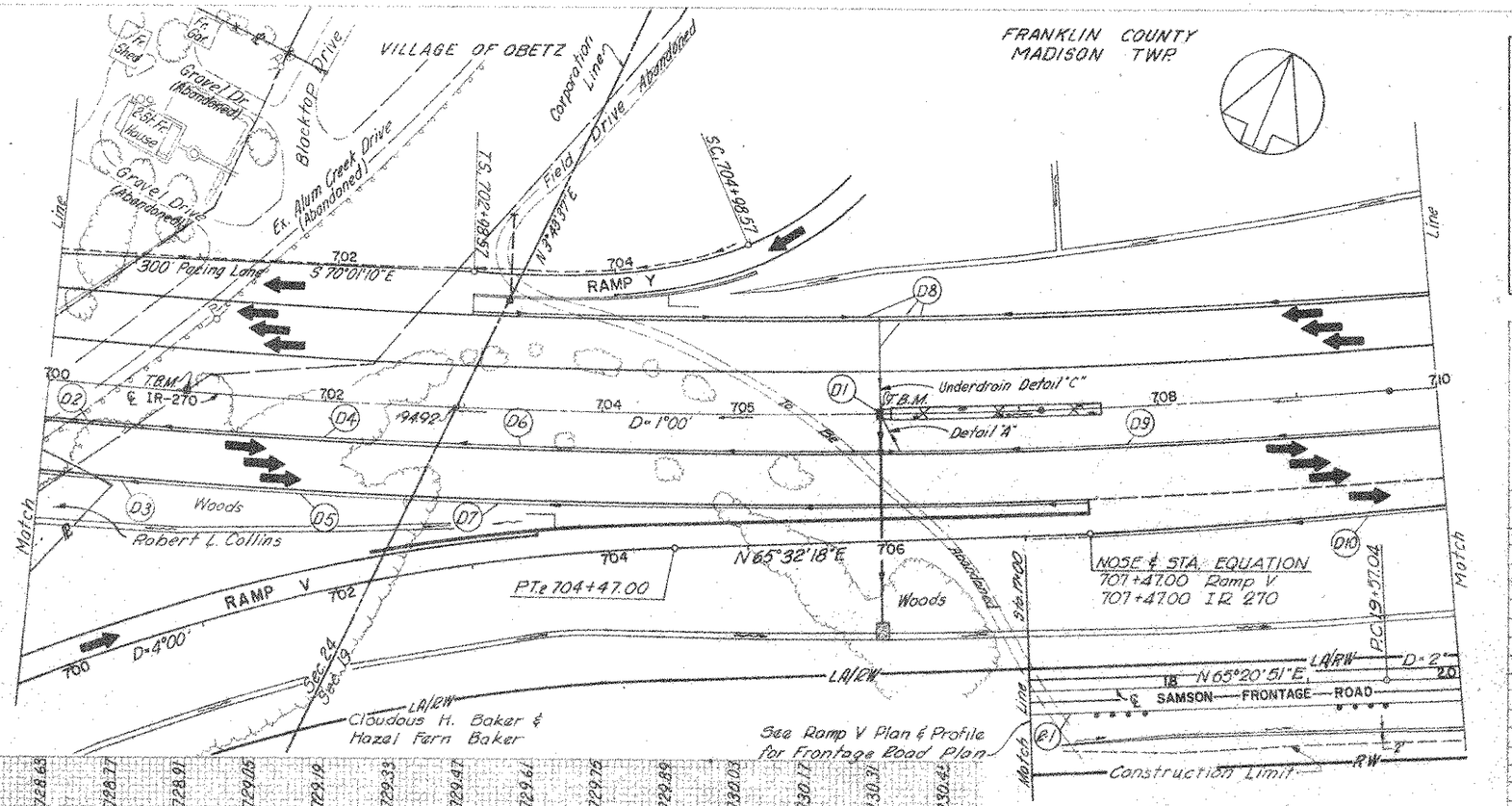
FRANKLIN COUNTY
FRA-270-11.59S





DRAINAGE		601	602	603			604	605					667
		Crushed Aggregate Slope Protection	Concrete Masonry	6" Conduit Type B, Class B	15" Conduit Type B, Class B	6" Conduit Type F	Standard No. 4 Catch Basin	6" Pipe (Deep) Underdrain	6" Pipe (Shallow) Underdrain	6" Pipe Underdrain	6" Special Branch Pipe Underdrain		Jute Matting
Code	Location	S.Y.	C.Y.	L.F.	L.F.	L.F.	Ea.	L.F.	L.F.	L.F.	Ea.		S.Y.
D1	706+00 ℄ to 149' Rt.	2	026		149		1						123
D2	700+00 to 701+00 Rt.							100					
D3	700+00 to 701+00 Rt.							100					
D4	701+00 to 702+00 Rt.									100			
D5	701+00 to 702+00 Rt.									100			
D6	702+00 to 705+97 Rt.								397				
D7	702+00 to 707+47 Rt.								547				
D8	702+99 to 710+00 Lt.			58		10			701		1		
D9	706+03 to 710+00 Rt.					10			416		1		
D10	707+47 to 710+00 Rt.								253				
	Total	2	0.26	58	149	20	1	200	2604	200			126

Roadway		606 Guard Rail Type 4		
Code	Location	L.F.		
E-1	17+00 to 20+12.50 Rt.	312.5		
	Total	312.5		

SHEET	STATE	PROJECT	
2	OHIO		

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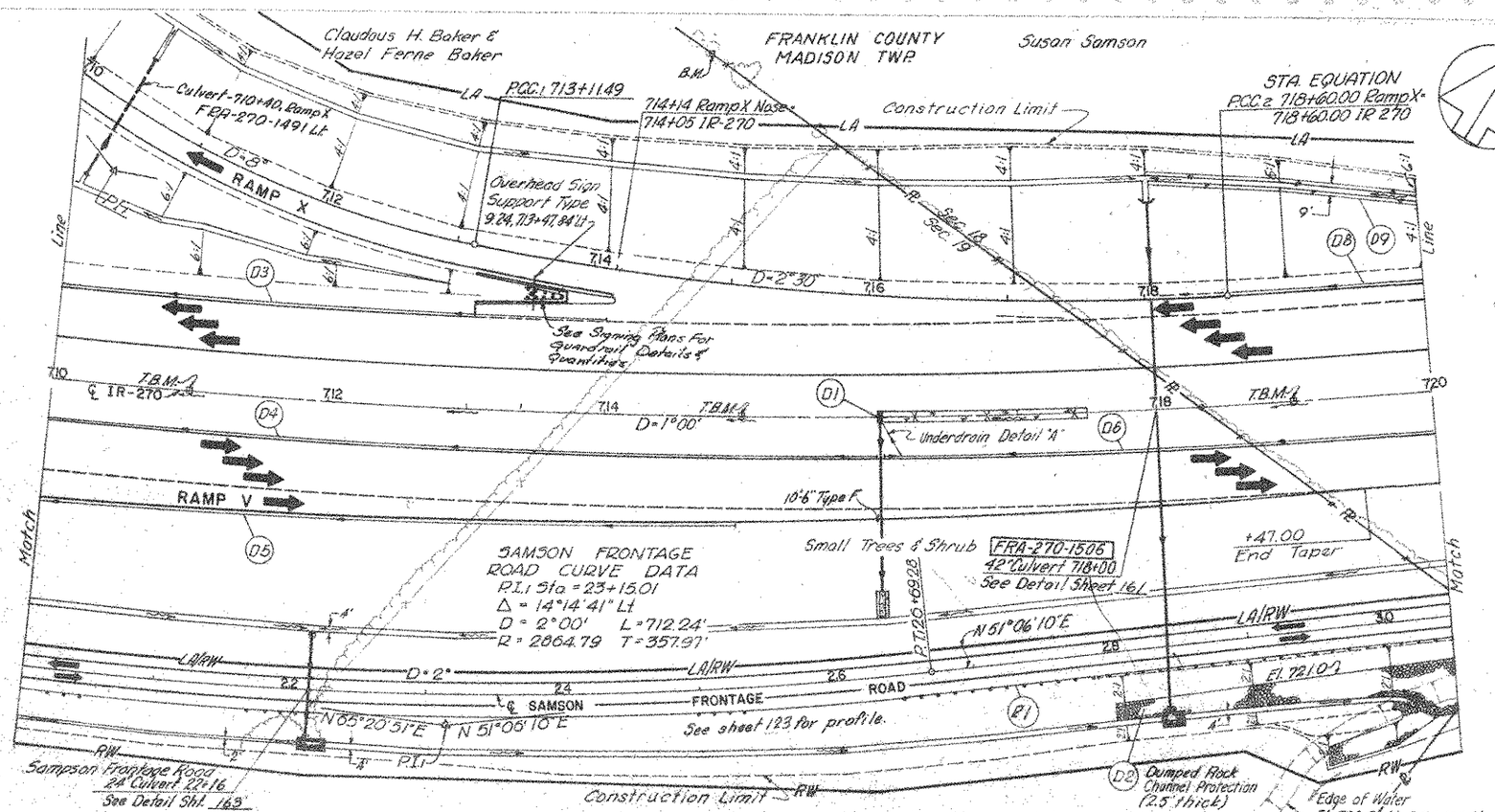
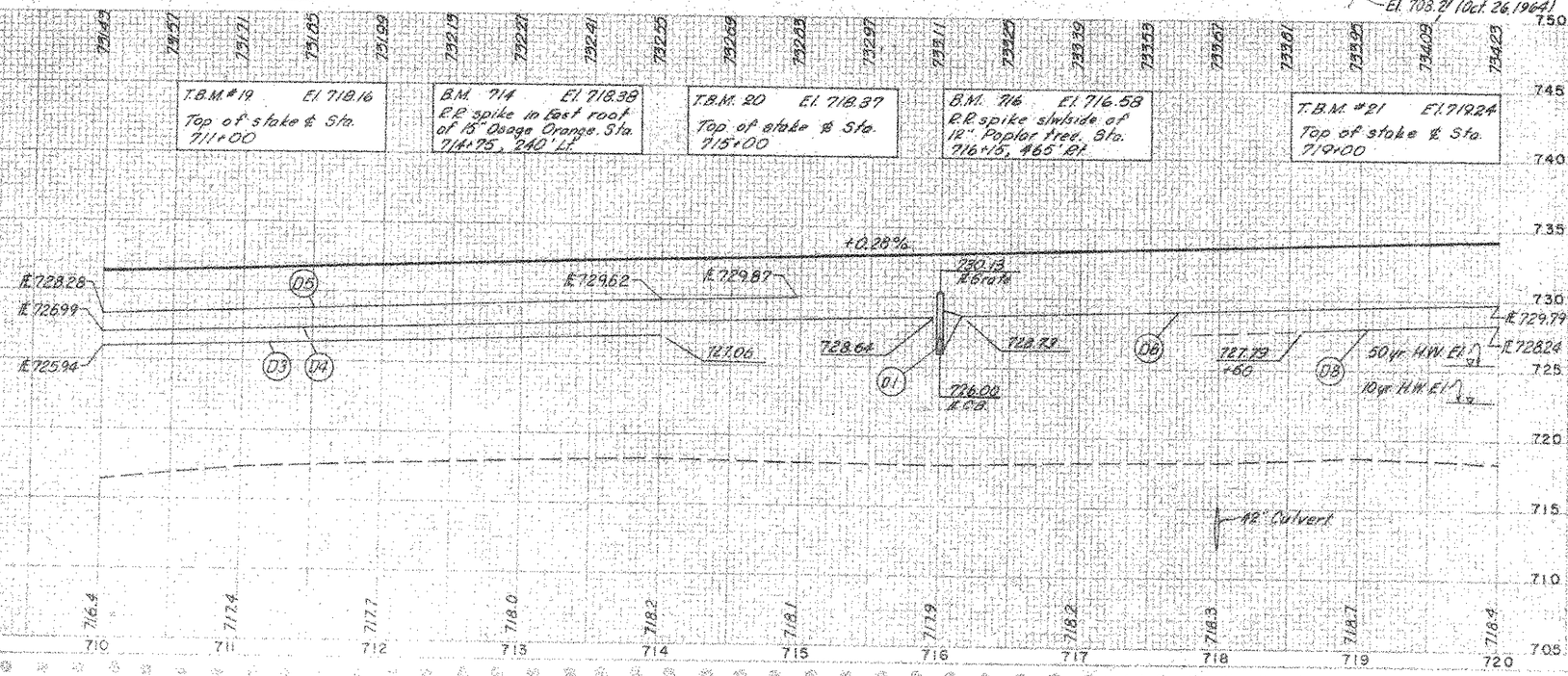
FRANKLIN COUNTY
FRA-270-11.59S



DRAINAGE		601	602		603			604		605		660	667
		Dumped Rock Channel Protection	Crushed Aggregate Slope Protection	Concrete Masonry	15" Conduit Type B, Class B			15" Type F Special	Standard No. 4 Catch Basin	6" Special (Branch) Pipe Underdrain	6" Pipe (Shallow) Underdrain	Seeding	Jute Matting
Code	Location	C.Y.	S.Y.	C.Y.	L.F.			Ea.	Ea.		L.F.	S.Y.	S.Y.
D 1	716+00, ℄ to 137' Rt.		2	0.26	137			2	1				125
D 2	717+65 to 720+00, Rt.	1307											
D 3	710+00 to 714+00 Lt.										400		
D 4	710+00 to 715+97, Rt.										597		
D 5	710+00 to 714+97 Rt.										497		
D 6	716+03 to 720+00, Rt.									1	495		
D 8	718+60 to 720+00, Lt.										140		
D 9	718+00 to 720+00, Lt.											200	
	Total	1307	2	0.26	137			1		1	2598	200	125

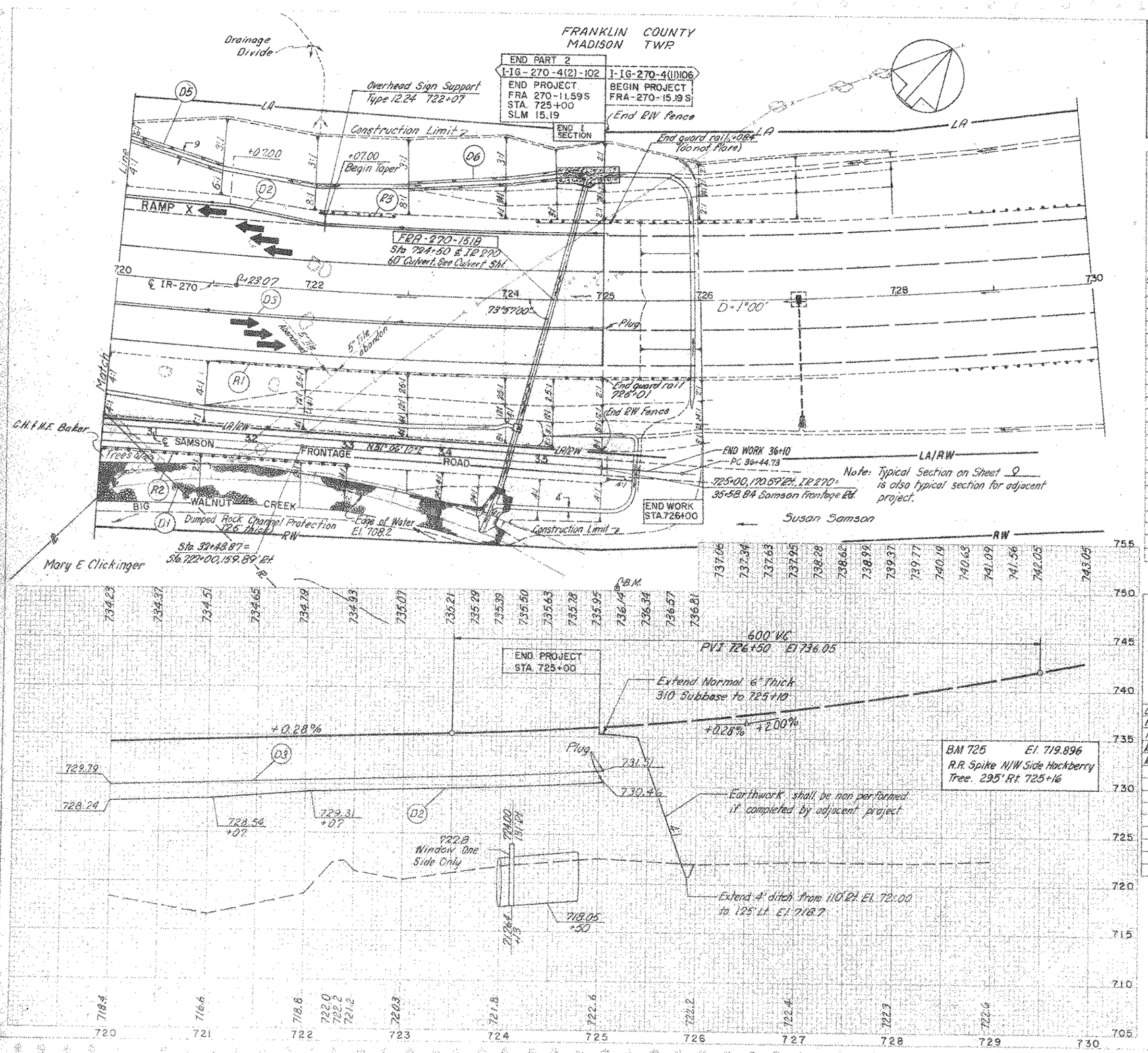
ROADWAY		606 Guard Rail Type 4
Code	Location	L.F.
R-1	20+12.50 to 30+50	1032.5
	Total	1032.5

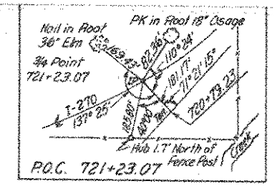
Note: See pavement details for taper details.



FED. RD. DIV. NO.	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY
FRA-270- 11.59 S





P.O.C. 721+23.07

		601			603					605	667			
DRAINAGE		Dumped Rock Channel Protection				6" Type F Conduit				6" Pipe (shallow) Underdrain	Sodding			
Code	Location	C.Y.				L.F.				L.F.	S.Y.			
D1	720+00 to 724+15, Rt.	3590												
D2	720+00 to 725+05, Lt.					20				515				
D3	720+00 to 725+05, Rt.					20				515				
D5	720+00 to 721+00, Lt.										100			
D6	723+00 to 724+50, Lt.										150			
	Total	3590				60				1030	250			

		606			
ROADWAY		Guard Rail Type 4			
Code	Location	LF			
R-1	721+01 to 725+01 Rt.	400'			
R-2	30+50 to 33+00	250'			
R-3	722+04 to 722+79 Lt.	75'			
R-4	724+33.4 to 725+08.4 Lt.	75'			
	Total	800			

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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FRANKLIN COUNTY
FRA-270-11.59 S

VILLAGE OF OBETZ

FRA-270-1446
20' Single Span - Reinforced Concrete Slab
10+00 Rel. Boehm County Ditch
686+90.00 IR-270

8" Tile
Sta Equation
PSt 683+00.00 Ramp W=
683+00.00 IR 270
D=00°30'
PI
10'-6" Type F
Std HW-E Endwall
See Culvert Detail Sheet 166 for Erosion Control Quantities
BOEHM DITCH
DITCH
D=1°00'
IR 270
S87°24'14"E
687+52 RAMP W=
687+48 IR-270
PI 688+74.00
PSt 689+49.09
For Profile see sheet 139
Construction Limit
Use No 2 Manhole without drop pipe
H. E. Travis
691+00 45' Rt
691+00 50' Lt
Storm Sewer System included in IR 270 plans see Sheet 133 for profile
PIe
D=6°00'
RAMP W
Underdrain Detail 'B-D'
Limit of Rigid Pav't Quantities
Ls=200
S71°05'39"E
PIe 692+53.94
Sta Equation
693+00.24 Ramp W=
693+00.24 Ramp W1
RAMP W1
Sta Equation
695+92.76 W1=
45+50.00 Relocated Alum Creek Drive
695+00.24
Nose
Rigid Pav't
Flexible Pav't
PCC 695+97.02
Sta Equation
PI 696+74.70 Ramp W=
431+34.66 Relocated Alum Creek Drive
N 18°54'21" E
℄ RELOCATED ALUM CREEK DRIVE

RAMP W CURVE DATA

PI = 685+87.06	PIe = 691+17.93
Δ = 2°52'12" Rt.	Δ = 16°18'35"
D = 00°30'	D = 6°00'
T = 287.06'	T = 136.84'
R = 11,459.16'	R = 954.93'
L = 574.00'	L = 271.83'

NOTE
1. Profile of Ramp W & W1 on next sheet.
2. Boehm Ditch Plan & Profile Sheet 139.
3. Additional grading shown on Main Line & Relocation Alum Creek Drive Plan & Profile.
4. See Pavement Details for additional data.
5. Cross Section Layout Sheet shows limit of sections. Sheet 8.
6. All pavement quantities are shown in the sub summary & are limited to that section adjacent to the ramp pavement.

DRAINAGE		602	603					604	605				660	
		Concrete Masonry	6" Conduit Type B, Class B	6" Conduit Type F	45° Conduit Type C 706.02 Class IV	48" Conduit Type B 706.02 Class IV	Standard No. 2 Manhole (Modified)	6" Pipe (Unclassified)	6" Pipe (Underdrain)	6" Pipe (Deep) Underdrain	6" Special (Bend) Pipe Underdrain	Sodding	6" Special (Branch) Pipe Underdrain
Code	Location	C.Y.	L.F.	L.F.	L.F.	L.F.	Ea.	L.F.	L.F.	L.F.	Ea.	S.Y.	Ea.
D1	686+68 to 691+00 Rt	47			430		1						
D2	691+00 Lt & Rt					95	1						
D4	683+00 to 686+89 Rt			10						349			
D5	686+80 to 693+25 Rt			20						645			
D6	693+25 to 695+46 Rt							221					1
D7	694+60 to 695+31 Rt		28					55			1		
D8	688+00 to 692+00 Rt											356	
	TOTAL	0.47	28	30	430	95	2	276	994		356		

ROADWAY		606 Guard Rail Type 4
Code	Location	L.F.
R-1	685+03 to 686+53	150'
R-2	686+79 to 687+04	25'
	TOTAL	175

RAMPS W & W1 PLAN

SEEDING	
END WIDTH	SQ. YDS.

WORK REQUIRED:
1. Construct ditch from right end of culvert at Station 718+00 (Sta. 28+42, Samson Frontage Rd) to Big Walnut Creek, perpendicular to existing ditch.
2. Construct Dumped Rock dikes across existing ditch at Sta. 28+65 and Sta. 30+22±, Samson Frontage Rd, right ditch.
3. Fill in existing ditch between rock dikes.

ESTIMATED QUANTITIES:

Item	Quantity Add	Unit	Description
203	656	CY	Excavation including embankment construction
601	110	CY	Dumped rock channel protection

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

FRA-270-1159S
CHANGE ORDER No.
DATE

Sheet 2 of 2 Sheets

END AREA		VOLUME	
CUT	FILL	CUT	FILL

EXISTING DITCH

42" Culvert at Sta 718+00

DRCP Dike
E 711.17
55 CY

Top of right side of Existing Ditch

Ditch to be Filled in

DRCP Dike
55 CY

Bottom of Existing Ditch

Big Walnut Creek

720 / 710

0+00 0+50 1+00 1+50

PROFILE

1+00 ℄ of RCP Dike — S.F. 0 CY 64 — Grade to drain — 101

1+50 ℄ — 91

1+00 ℄ — 105

0+50 ℄ — 78

0+17 ℄ of RCP Dike — 547 — +15% Compact 82 — Fill (Waste) = 629

20 10 0 10 20

CROSS SECTIONS

PROPOSED DITCH

Begin Work Sta 0+15

Shape to Creek Bank

42" Culvert
E 711.17

℄ of ditch
1.32% Slope

Existing Ground

End Work Sta 1+64

Big Walnut Creek

720 / 710

0+00 0+50 1+00 1+50

PROFILE

S.F. 0 CY 20

1+64 Creek bank — 76

1+50 E 709.17 — 137

1+00 E 709.25 — 175

0+50 E 710.51 — 158

0+15 E 710.35 — 74 — 12

0+05 E 711.10 — 0

Excavation, CY (Add) 656

20 10 0 10 20

CROSS SECTIONS

C.O. 6-26-69 WPC

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

330
332

FRANKLIN COUNTY
FRA 270-11.59S

26
28

LIMITED ACCESS

I-IG-270-4(2)102

CHANGE ORDER No.
DATE
Sheet 1 of 2 Sheets

For Change Order Requirements and Quantities see Sheet 2

MADISON TOWNSHIP
T1N R21W
SECTION 19

SUSAN SAMSON (LIFE ESTATE)
RALPH B. SAMSON (REMAINDER)
GERALDINE FENOLLOSA (REMAINDER)

IR-270
CURVE DATA
P.I. STA 709+66.70
Δ = 56°14'42" Lt.
D = 1°00'00"
R = 5729.58'
L = 5624.50'
T = 3062.20'
E = 766.97'

END PROJECT FRA-270-11.59 S
BEGIN PROJECT FRA-270-15.19 S

963.33' to N.W. Cor. Sec. 19
12" OSAGE
SEC 18
P.L.
SEC 19
1-21" & 1-48" ASH TREES
12" OSAGE
12" WALNUT
24" WALNUT
3-12" & 2-6" OSAGE TREES
36" ASH
4" ELM STUMP
12" OSAGE
6"-12" OSAGE
BUSH
GATE
12" OSAGE
4" ELM
2-12" & 1-6" OSAGE TREES
12" OSAGE
30" ELM
5" OSAGE
4" ELDER
4" ELM
TREES & SCRUBS
SMALL TREES
SWAMP & SCRUBS
SAMSON FRONTAGE ROAD
SAMSON FRONTAGE ROAD CURVE DATA
P.I. STA. 23+15.00
Δ = 14°14'41"
D = 2°00
R = 2,864.79
T = 357.96
L = 712.24
CLAUDOUS H. BAKER & HAZEL FERN BAKER
CLAUDOUS H. BAKER & HAZEL FERN BAKER
MARY E. CLICKINGER
WALNUT CREEK
SEC 18
SEC 19
SEC 13
SEC 24

214.58' N59°29'51"E
712+00 240.00 Lt.
194.46 N68°35'58"E
714+00 210.00 Lt.
N58°12'38"E 234.37'
715+57.12 209.29 Lt.
151.37'
718+00 200.00 Lt.
720+00 180.00 Lt.
484.68' LA N51°24'26"E
291.24' LA N47°12'34"E
725+03 170.00 Lt.
End Fence 168.00' Lt.
Dc = 8°-00'
RAMP "X"
R.C.C. 713+11.49
714
Dc = 2°-30'
716
718
R.C.C. 718+60.00
Construction Limit
S26°-10'-52"E 343.30'
18.83 Acres
9.68 Ac. IG
9.15 Ac. I
(132-W)
Dc = 1°-00'
715+00
716+00
717+00
718+00
720+00
721+00
722+00
723+00
724+00
725+00
726+00
℄ Sta. I-270 718+34.38
38°-56'-11"
FRA-270-1506
42" Culvert 718+00
SHEET 25
SHEET 27
STA. 711+00
STA. 727+00
MATCH LINE
MATCH LINE
FRA-270-15.18
60" Culvert 724+50
Construction Limit
END WORK STA. 726+00
End Fence 155.48' Rt.
726+00 463.34' N45°42'43"W
726+00 100.00 Rt.
LA/RW
D=1°30"
PC Sta. 36+44.73
725+00 187.78' Rt.
225+00 170.59 Rt.
35+58.84
S51°29'01"W
608.82'
LA/RW
3.0
S45°10'58"W RW 626.70'
726+00 255.00' Rt.
S49°40'42"W RW 389.95'
522.33'
721+26.78 264.42' Rt.
(131) 4.91 Acres
(131-WL) CLAUDOUS H. BAKER & HAZEL FERN BAKER
19.31 Acres
PRO 2.80 Acres
Total 22.11 Acres
RAMP "Y"
15" Pipe
TRENCH
EXISTING DITCH (To be filled in)
PT 36+62.28
716+35.69 168.60 Rt.
382.41' N51°06'10"E LA/RW
3.0
N51°06'10"E
720+43.69 178.28' Rt.
Proposed Dike (R.C.P.)
Top R.C.P. Dike
Elev. 715.03
S86°40'52"E 87.96'
Q+50
1+00
1+50
R = 2,848.79'
Ch = 706.44'
Dc = 2°
N58°18'31"E
LA/RW
24" Culvert 22+16
209.39' S63°05'39"W
712+00 210.00 Rt.
714+00 210.00 Rt.
Station 0+00 for cross sections both ditches
Construction Limit
262.09' RW S51°06'02"W
418.76' RW S58°43'35"W
PROPOSED DITCH
Work Limits
Work Limits
D+50
1+00
1+50
718+50 230.00 Rt.
719+46.9 215.00 Rt.
719+71.70 264.65 Rt.
720+00 260.00 Rt.
S19°51'42"W 87.96'
S45°04'14"W 75.87'
108.74' BYG
24.87'
132.58'
(131-T) 0.15 Acre
Top of Bank
Top of Bank
N39°48'37"E
Proposed Channel Easement
SEC 13
SEC 19
SEC 24
SERVICE ROAD
RAMP "X"
RAMP "Y"
RAMP "W"
RAMP "V"
G90
19
21
22
23
25
26
27
℄ I-270
℄ FRA-270-15.18 ALUM CREEK DRIVE

All Deeds, Easements, Stationing, and Offsets are Described from the ℄ of Construction.

Tie Between ℄ Construction and Existing ℄ Shown on the Center Line Survey Plat.

I. FUNDS

MADISON TOWNSHIP
T1IN R21W
SECTION 19

COMPLETION DATE MARCH 23, 1966 SCALE 1"=50'

REV.	DATE	DESCRIPTION

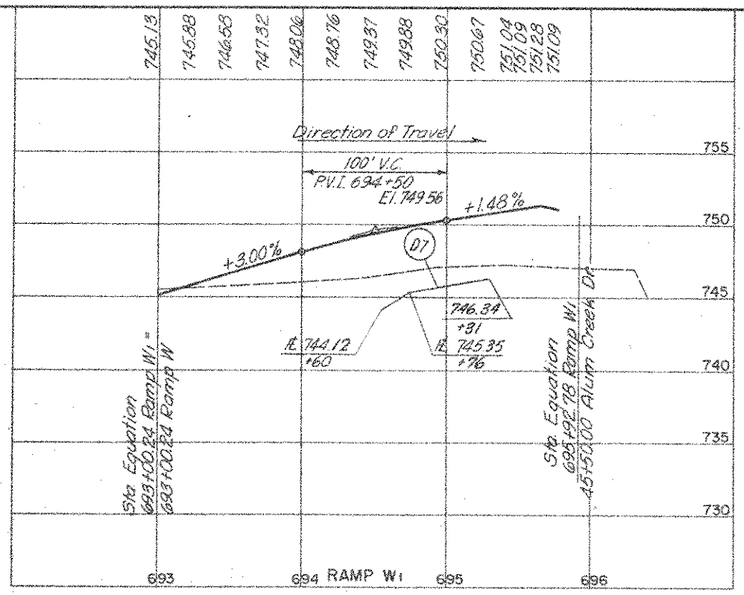
R/W PLANS ALUM CREEK DRIVE INTERCHANGE — I-270 STA. 711+00 TO 726+00

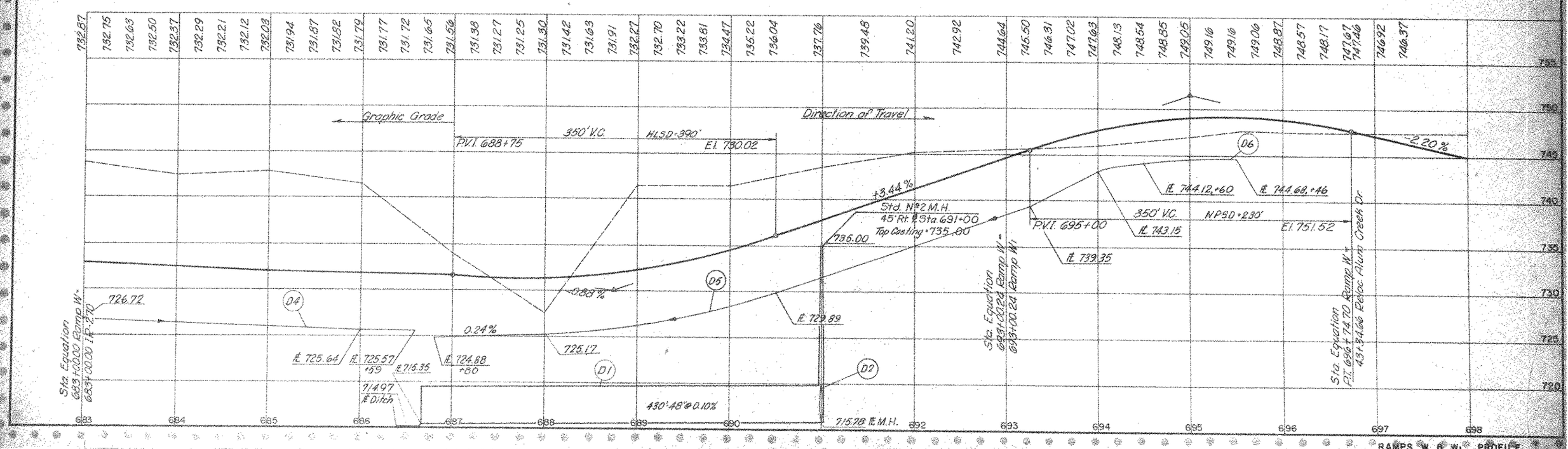
CO 6-26-69.WPC

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

48
332

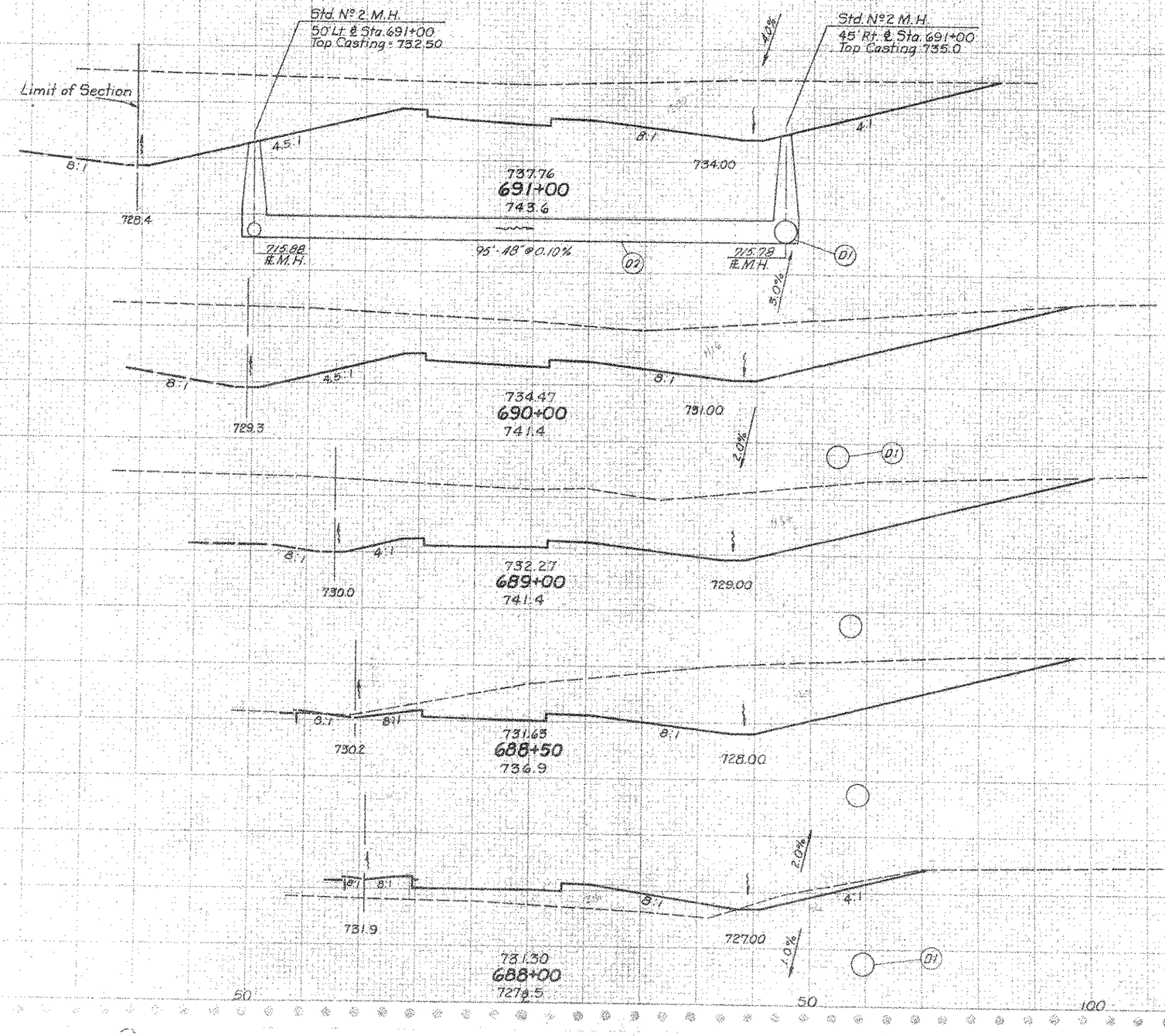
FRANKLIN COUNTY
FRA-270-11.59S





FED. AID PROJECT NO.	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY
FRA-270-11.59 S



	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
750				
740	1280	0		
730				
750			4457	0
740	1116	0		
730			4259	0
740	1184	0		
730			1895	0
740	860	0		
730			830	200
740	36	216		
730				
720				
150				

RAMP W X-SECTIONS 688+50 TO 691+00

FED. RD. DIV. NO.	STATE	PROJECT	
2	OHIO		

50
332

FRANKLIN COUNTY
FRA-270-11.59S

SEEDING
2ND WIDTH | SQ. YDS.

12491 Ramps W & W1

Limit of Section

750
8:1
6:1
740
748.0
Ramp W

750.67 (W1)
695+25
746.8

Limit of Section
695+00 to 695+25

Earthwork Quantity
Ramps W & W1
Total to Sub Summary

	END AREA CUT	END AREA FILL	VOLUME CUT
			2810
695+25(W1)	0	206	
			5
Ahead	10	192	
Back (Full Section)	24	214	
			295
	292	112	
			1152
	952	38	
			799
			4567
	1514	0	
			5152
	1268	0	
			4719

77 | 204 | 70 | Ahead | 750 | 740 | Back | 138

Section — Normal to ℄ Ramp W1 | Section Normal to ℄ Ramp W

8:1 | 6:1

749.05 (W)
695+00
747.4

746.50

750.30 (W1)
695+00
747.0

864 | 750 | 173 | 740 | 1042

Section — Normal to ℄ Ramp W1 | Section Normal to ℄ Ramp W

8:1 | 24:1 | 2.0% | 6.0%

746.35 +76 | 6" U.D. | 744.12 +60 | 746.00

749.37 (W1)
694+50
746.5

202 | 750 | 740 | 2083

8:1 | 24:1 | 4.0%

745.06 (W1)
694+00
746.0

745.00

Note: 693+00 to 694+00
Add
Not Shown by Sections

Baseline for Cross Sections
℄ Ramp W1 (Forward)
℄ Ramp W (Back)

Note: ℄ for Ramp W1 16.00' Lt. of
℄ for Ramp W @ 693+00.24

173 | 750 | 740 | 1867

744.64
693+00
745.5

742.00

4:1 | 12:1 | 2:1 | 8:1

722.0

163 | 750 | 740 | 1806

Limit of Section

741.20
692+00
745.2

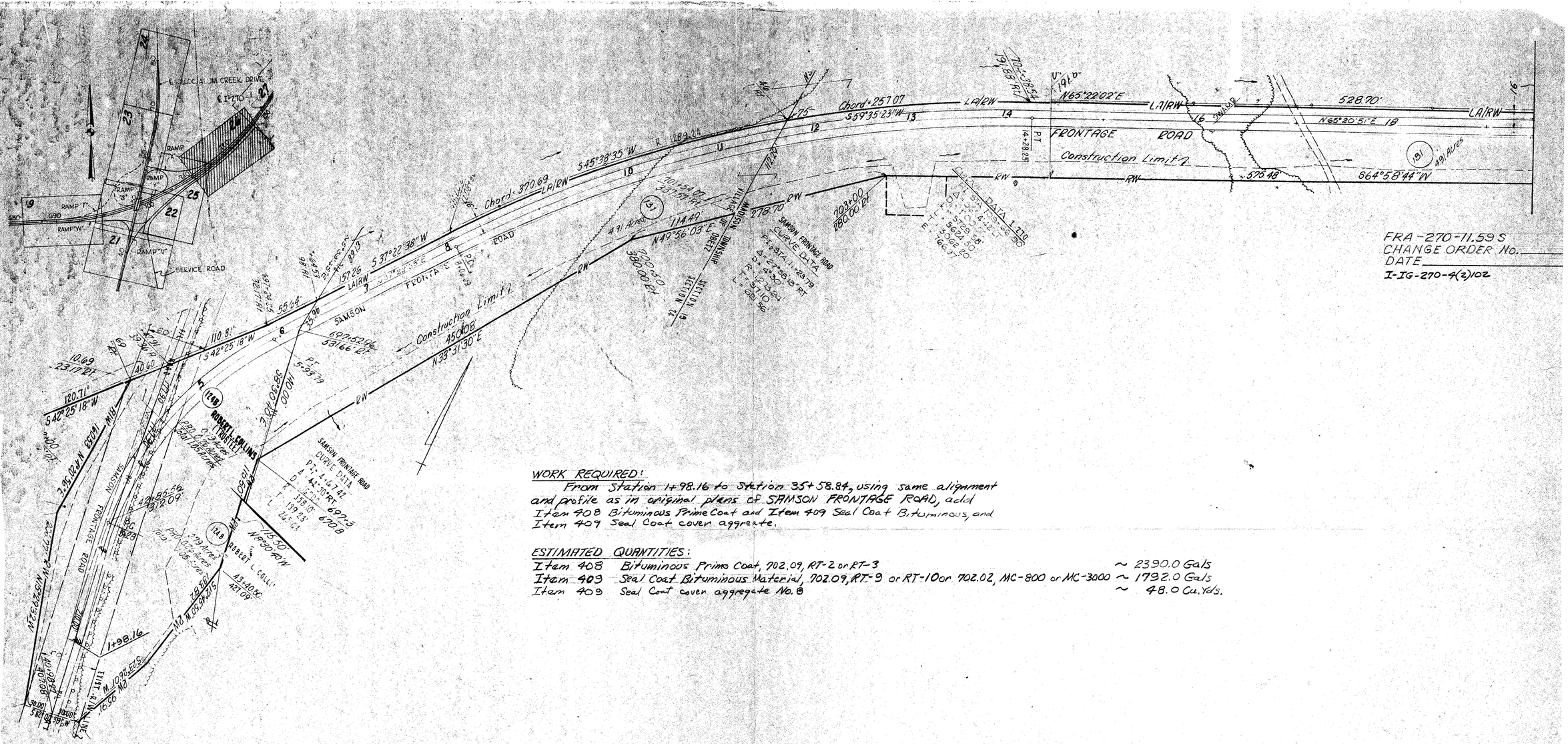
8:1 | 4:1 | 6:1 | 10.0%

738.00

8:1 | 100 | 726.0

150 | 100 | 50 | ℄ | 50 | 100 | 150

RAMPS W & W1 X-SECTIONS 692+00 TO 696



WORK REQUIRED:

From Station 1+98.16 to Station 35+58.84, using same alignment and profile as in original plans of SAMSON FRONTAGE ROAD, add Item 408 Bituminous Prime Coat and Item 409 Seal Coat Bituminous, and Item 409 Seal Coat cover aggregate.

ESTIMATED QUANTITIES:

Item 408	Bituminous Prime Coat, 702.09, RT-2 or RT-3	~ 2390.0 Gals
Item 409	Seal Coat Bituminous Material, 702.09, RT-9 or RT-10 or 702.02, MC-800 or MC-3000	~ 1792.0 Gals
Item 409	Seal Coat cover aggregate No. 8	~ 48.0 Cu. Yds.

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY
FRA-270-11.59S

VILLAGE OF OBETZ

Sta Equation
693+70.37 Vi
45+50 Reloc. Alum
Creek Drive

N18°54'21"E ℄ RELOCATED ALUM CREEK DR. PI2

S71°05'39"E

PC 694+32.68

RAMP VI

℄ EX. ALUM CREEK DRIVE

Undercrain Detail "C"
N40°48'15"E
Taper 24" to 16" in 400'

Sta Equation
PI 695+81.25 Ramp VI = R
695+81.26 Ramp V

PC2 698+00.00

RAMP V

℄ SAMSON

FRONTAGE ROAD

℄ IR 270

PI2 704+47.00
10° of 6" Type F

Nose & Sta Equation
707+41.00 Ramp V =
707+41.00 IR 270

Sta Equation
PC 691+62.50 Ramp V
40+28.69 Reloc. Alum
Creek Drive

Nose
691+62.50 Ramp V
42+26.30 Reloc.
Alum Creek Drive

H. R. Travis

R.L. Collins

Claudous H. & Hazel Ferne Baker

Begin Work
1+25.00

℄ RATHMELL
N17°59'21"W

Begin Reconstruction

Begin New Pave
1+98.16

P.I. Ex. Rathmell Rd.
Δ = 2°51'39"

Existing Type 2
Guard Rail

Swale

Sec. 24
Sec. 19

BIG WALNUT CREEK

Corp. Line

Field Drive
+00.90 Rt.

P.I. 2+20.25

Detail "D"

Detail "F"

Detail "S"

Detail "B"

EX. CURVE DATA ALUM CREEK DRIVE

PI1 = 11+01.68	PI2 = 23+41.30
Δ = 14°22'00" Rt	Δ = 26°37'30" Lt
D = 1°30'	D = 3°00'
R = 3819.72'	R = 1909.86'
L = 150'	L = 200'
T = 556.45'	T = 552.12'
E = 30.48'	E = 53.66'

RAMP V CURVE DATA

PI1 = 691+93.06	PI2 = 701+29.11
Δ = 18°00'16" Rt	Δ = 25°52'48" Rt
D = 4°00'	D = 4°00'
T = 226.93'	T = 329.11'
R = 1432.39'	R = 1432.39'
L = 450.11'	L = 647.00'

SAMSON FRONTAGE ROAD CURVE DA

PI1 = 4+67.39	PI2 = 11+23.79
Δ = 42°30' Rt	Δ = 27°58'13" Rt
D = 16°00'	D = 4°30'
R = 358.10'	R = 1273.24'
L = 265.63'	L = 621.56'
T = 139.23'	T = 317.10'

DRAINAGE		602	603				604	605			660	601
		Concrete Masonry	6" Conduit Type B, Class B	6" Conduit Type F	15" Conduit Type B, Class B	6" Special (Branch) Pipe Underdrain	Standard No. 228 Catch Basin	6" Pipe (Shallow) Underdrain	6" Pipe (Inches Field) Underdrain	6" Special (Bend) Pipe Underdrain	Seeding	Crushed Aggregate
Code	Location	C.Y.	L.F.	L.F.	L.F.	Ea.	Ea.	L.F.	L.F.	Ea.	S.Y.	S.Y.
D1	694+12 to 695+50		34			1			138	1		
D2	691+63 to 698+25			20					604	1		
D3	693+50	26			90		1					2
D4	698+25 to 707+47			20		1		952				1
D5	696+00 to 704+00 Rt										711	
	Total	026	34	40	90	1	1	952	832	1	711	3

ROADWAY		606
		Guard Rail Type 4
Code	Location	L.F.
R1	3+50 to 12+75 Samson	925
R2	13+25 to 17+00 Samson	375
	Total	1300

HAMILTON TOWNSHIP
FRANKLIN COUNTY

PAVEMENT	304	404	407
	Aggregate Base	Asphalt Concrete (Bit 1C)	Tack Coat
LOCATION	C.Y.	C.Y.	Gal.
1+25 to 1+98.16 Samson		5	13
13+00 Rt. Samson	26		
	26	5	13

Note: See Part Sub Summary for pavt quantities for Ramps & Frontage Rd.

NOTES:
1. Profile of Ramps V & VI on next sheet; Samson Rd. profile sht. 173
2. See pavement details for additional data.
3. Cross Section Layout sheet shows limit of sections.
4. Additional grading shown on Main Line & Reloc. Alum Creek Drive Plan & Profile sheets.
5. Geometric layout sheet includes additional data for ramps & adjacent roadings.
6. All pavement quantities are shown in the Sub Summary & are limited to that section adjacent to the ramp pavement.

See IR 270 700+00 to 710+00 Sheet 44 for Frontage Road Plan

RAMPS V & VI PLAN

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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FRANKLIN COUNTY

FRA-270-11.59 S

PAVEMENT ELEVATIONS SAMSON FRONTAGE RD.

Lt. Edge	Station	Rt. Edge	Lt. Edge	Station	Rt. Edge
722.75	17+75	722.75	724.00	24+25	724.50
722.75	18+00	722.80	724.25	+50	724.75
722.75	+25	722.87	724.50	+75	725.00
722.75	+50	722.94	724.75	25+00	725.25
722.75	+75	723.02	725.00	+25	725.50
722.75	19+00	723.09	725.25	+50	725.75
722.75	+25	723.16	725.50	+75	726.00
722.75	+50	723.23	725.75	26+00	726.25
722.75	+75	723.25	726.00	+25	726.50
722.75	20+00	723.25	726.25	+50	726.75
722.75	+25	723.25	726.50	+75	726.98
722.75	+50	723.25	726.75	27+00	727.16
722.75	+75	723.25	727.00	+25	727.34
722.75	21+00	723.25	727.25	+50	727.52
722.75	+25	723.25	727.50	+75	727.70
722.75	+50	723.25	727.75	28+00	727.88
722.75	+75	723.25	728.00	+25	728.05
722.75	22+00	723.25	728.19	28+44.28	728.19
722.77	+25	723.27			
722.81	+50	723.31			
722.89	+75	723.39			
723.00	23+00	723.50			
723.14	+25	723.64			
723.31	+50	723.81			
723.52	+75	724.02			
723.75	24+00	724.25			

See Samson Frontage Road Profile, Sheet 123 for additional Pavement Elevations on Superelevated Sections.

RAMP V

RAMP VI

RAMPS V & VI PROFILE

SECTION		
CUT AREA	FILL AREA	
72	447	
89	519	
98	1128	
105	556	
95		

END AREA		VOLUME	
CUT	FILL	CUT	FILL
208	8		
			456 8
284	1		
		474	31
228	32		
		822	144
216	46		
		409	80
226	40		

FED. ROAD DIVISION	STATE	PROJECT	
2	OHIO		

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332

FRANKLIN COUNTY
FRA-270-11.59 S

Limit of Section
4:1
8:1
746.90
6:1
40'
740.0
8:1
℄ Samson Road
747.48
695+00
746.5
℄ Samson Road
For Details See Samson Road X-Sections Sheet 124 to 127
24:1
4:1
746.00
8:1
742.3
4:1
12:1
4:1
8:1
747.44
694+50
747.5
Limit of Section
24:1
4:1
745.20
42'
742.00
747.17
694+00
747.0
Std. N° 2-2-B C.B.
40' Lt. ℄ Sta. 693+50
Top Grate: 745.00
8:1
742.46
℄ C.B.
D3
746.02
693+00
746.5
90°-15" @ 0.40%
@ 693+50
741.50
Limit of Section
8:1
8:1
745.50
745.32
692+50
746.5
8:1
4:1
741.0

RAMP V X-SECTION 692+50 TO 695

FED. ROAD DIV. NO.	STATE	PROJECT	
2	OHIO		

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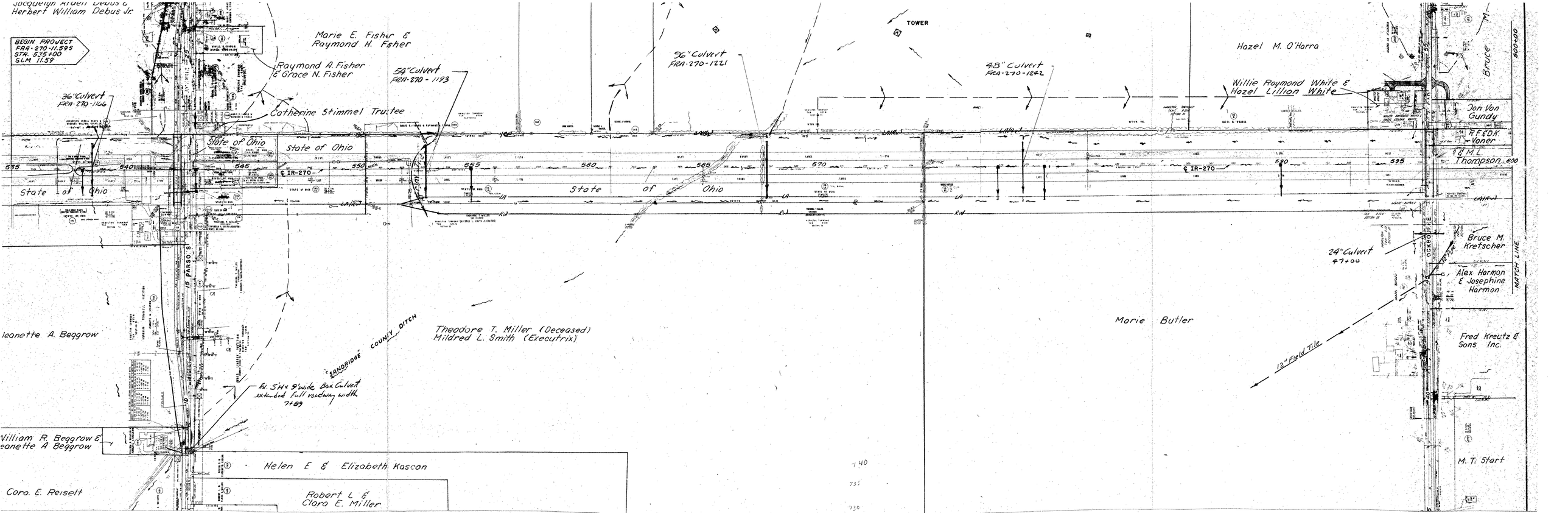
332

FRANKLIN COUNTY
FRA-270-11.59 S

RAMP W X-SECTIONS 695+50 TO

Limit of Section
750
740
730
720
156
12:1
8:1
4:1
731.00
743.18
698+00
1789
Limit of Section
℄ Samson Road
750
740
730
720
END AREA CUT 514 FILL 3248
VOLUME CUT 2300 FILL 10207
750
740
166
12:1
3:1
4:1
731.00
12:1
6:1
733.00
745.49
697+00
℄
750
740
730
720
END AREA CUT 728 FILL 2264
728
750
740
730
720
145
4.5:1
738.00
24:1
8:1
4:1
746.92
696+00
736.6
755.50
For Details See Samson Road X-Sections Sheet 124 to 127
750
740
730
END AREA CUT 280 FILL 1324
VOLUME CUT 1867 FILL 6644
775
Limit of Section
Limit of Section
℄ Samson Road
750
134
740
572
6:1
4:1
742.00
24:1
8:1
742.35
747.31
695+50
743.4
741.16
5:1
8:1
738.00
750
740
END AREA CUT 56 FILL 454
VOLUME CUT 311 FILL 644
750
244 426
150
100
50
℄
50
100
150

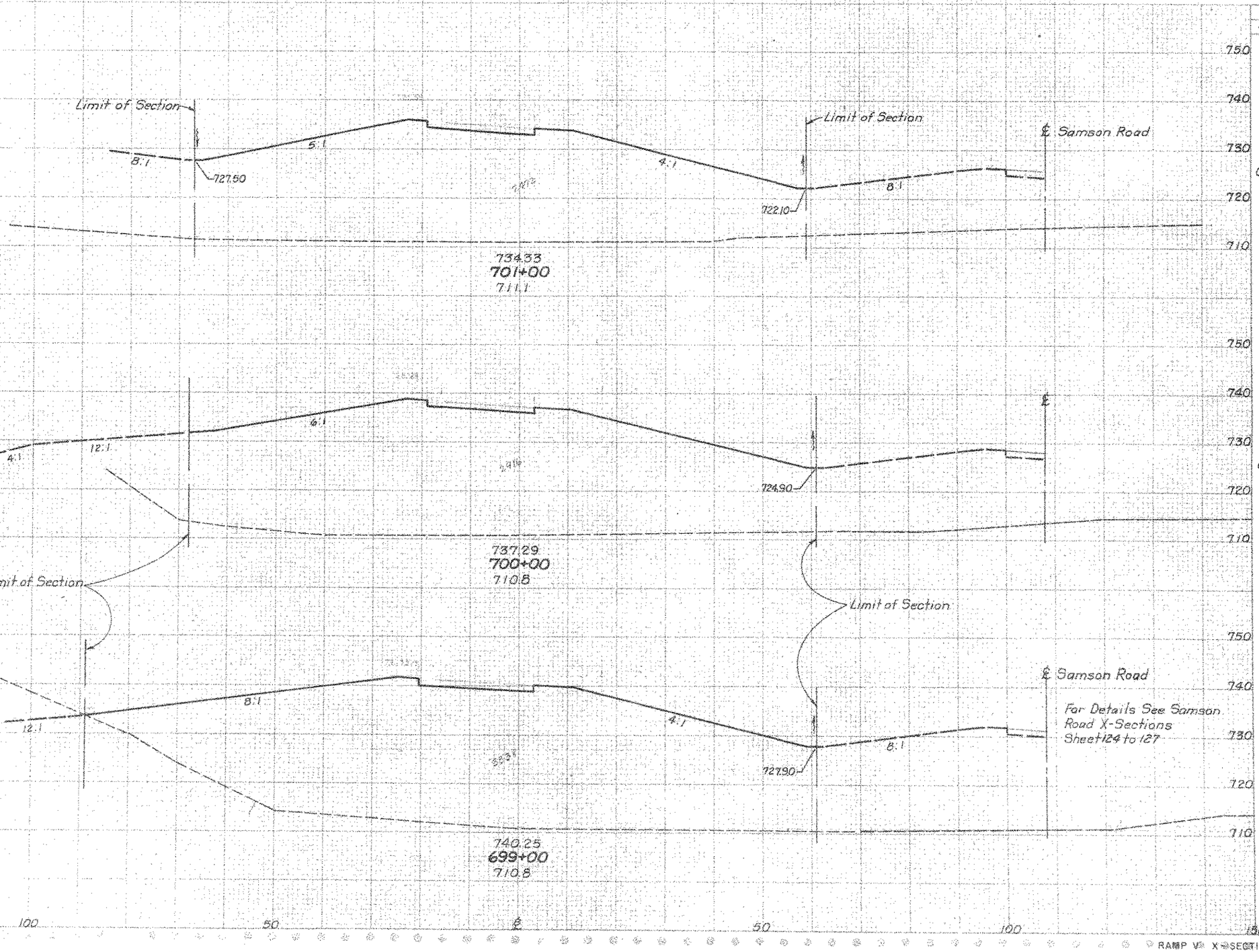

Jacquelyn Ardell Debus &
Herbert William Debus Jr.
BEGIN PROJECT
FRA-270-11.595
STA. 535+00
SLM 11.59
Marie E. Fisher &
Raymond H. Fsher
Raymond A. Fisher
& Grace N. Fisher
54" Culvert
FRA-270 - 1193
36" Culvert
FRA-270-1146
Catherine Stimmel Trustee
State of Ohio
State of Ohio
535
540
545
℄ IR-270
550
555
560
565
570
575
580
585
590
595
State of Ohio
State of Ohio
TOWER
56" Culvert
FRA-270-1221
48" Culvert
FRA-270-1242
Hazel M. O'Harra
Willie Raymond White &
Hazel Lillion White
℄ IR-270
Bruce
Jon Van
Gundy
R.F.&D.K.
Voner
T.& M.L.
Thompson
600
800+00
15 PARSONS
Leanette A. Beggrow
SANDRIDGE COUNTY DITCH
Theodore T. Miller (Deceased)
Mildred L. Smith (Executrix)
Ex. 5'H x 9'wide Box Culvert
extended Full roadway width.
7+89
William R. Beggrow &
Leanette A. Beggrow
Helen E & Elizabeth Kascon
Coro. E. Reiselt
Robert L. &
Clora E. Miller
740
735
730
Marie Butler
24" Culvert
47+00
12" Field Tile
OCKERBOFFLE
Bruce M.
Kretscher
Alex. Harmon
& Josephine
Harmon
Fred Kreutz &
Sons Inc.
M. T. Start
MATCH LINE

STATE	PROJECT		SHEET NO.	TOTAL SHEETS
2	OHIO			55 / 332

FRANKLIN COUNTY
FRA-270-11.59 S

SEEDING

CROSS SECTION	SQ. YDS.
107	
120	
110	
132	
129	
158	



CROSS SECTION	CROSS SECTION AREA CUT	CROSS SECTION AREA FILL	VOLUME CUT	VOLUME FILL
700	0	2472		
699	0	2916	0	9978
698	0	1581	0	4497
697	0	3338	0	4919
696			0	9521

RAMP W X-SECTIONS 699 TO 700

DESIGN SECTION	STATE	PROJECT	
2	OHIO		

56
332

FRANKLIN COUNTY
FRA-270-11.59 S

	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
Earthwork Quantity Ramps V & Vi			7835	
Total to Sub Summary				69505

4126 Ramps V & Vi

52

656

66

806

79

1033

740
730
720
710

£ IR 270

Limit of Section

729.95
704+00
712.7

8.1
4.1
718.30
7.1
£ Samson Road
Limit of Section

729.6
8.1
6.1
725.33
703+55
719.45
703+55 718.60
7.1
£

730.03
703+00
712.9

Limit of Section
Limit of Section

8.1
4.1
728.50
4.1
8.1
720.10
£ Samson Road

731.55
702+00
712.0

For Details See Samson Road X-Sections Sheet 124 to 127

0 984
0 4070
0 1214
0 5081
0 1530
0 741

150 100 50 £ 50 100 150

RAMP V X-SECTIONS 102 TO 104

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

57/332

FRANKLIN COUNTY
FRA-270-11.59 S

Susan Samson

C.H. & H.F. Baker

CH. & H.F. Baker

RAMP X CURVE DATA
PI1 = 710+66.40
Δ = 41°04'01" Lt.
D = 8°00'
T = 268.25'
R = 716.20'
L = 513.34'

PI2 = 715+87.06
Δ = 13°42'46"
D = 2°30'
T = 275.57'
R = 2291.83'
L = 548.51'

RAMP Y CURVE DATA
PI1 = 714+35.23
Δ = 10°08'24" Lt.
D = 6°00'
T = 84.72'
R = 954.93'
L = 169.00'

Control Center
704+06.84 Lt.
See Lighting Plan sh. 195

Sec. 18 / Sec. 19

Sta Equation
701+83.75 Ramp X =
59+34.02 Reloc. Alum Creek Drive

Sta Equation
712+89.04 Ramp Y1 =
59+05.02 Reloc. Alum Creek Drive

Sta Equation
718+60.00 Ramp X =
PCC2 718+60.00 IP 270

Nose
714+14 Ramp X
714+05 IP 270

Construction Limit

FRA-270-14.91/LA
18" Culvert 710+40
See Detail Sht. 161

PCC1 713+11.49

PC 701+98.15

Underdrain Detail "D" D=8"

Sta Equation
709+85.05 Ramp Y1 =
709+85.05 Ramp X

Nose
713+52.00 Ramp Y
56+43.00 Reloc. Alum Creek Drive

Sta Equation
699+98.57 Ramp Y =
699+98.57 IP 270

Sta Equation
712+75.19 Ramp Y =
24+22.24 Reloc. Alum Creek Dr.

PI 1

PI 2

PI e

TS 702+98.57

SC 704+98.57

Begin Type I Ramp Y
32+22.24

Begin Type I Ramp Y1
56+43.00

Sta Equation
699+98.57 Ramp Y =
699+98.57 IP 270

Sec. 13 / Sec. 24

Sec. 18 / Sec. 19

Sec. 24 / Sec. 19

Traffic Dividers
See Part V detail sh. 174

Howard Crosby

E.L. & B.E. Fox

State of Ohio

VILLAGE OF OBETZ

FRANKLIN COUNTY
MADISON TWP

STEGNER ROAD

FIELD DR.

RAMP X

RAMP Y

RAMP Y1

Q RELOC. ALUM CREEK DRIVE

Q EX. ALUM CREEK DRIVE

Q IR 270

Septic Tank
Leach Bed

Cistern

Gravel Drive

Gravel Dr.

Frame House

Frame Shed

Fr. Shed

Fr. Sheds

Fr. Gar

Fr. House

Water Line

Well

Open Ditch

Field Tile

Corporation Line

Corp. Line

Drive

Parking Lane

Blacktop

Guard Rail

Guard Rail Type 5

Guard Rail Type 6

Guard Rail Type 7

Guard Rail Type 8

Guard Rail Type 9

Guard Rail Type 10

Guard Rail Type 11

Guard Rail Type 12

Guard Rail Type 13

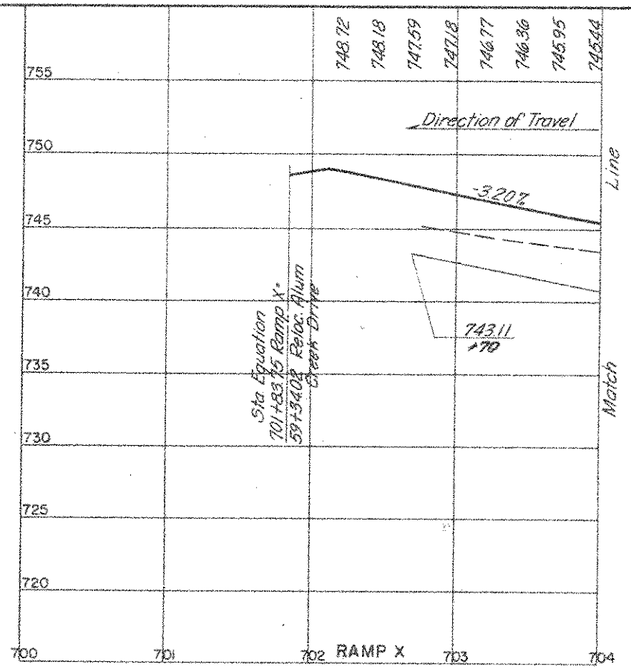
Guard Rail Type 14

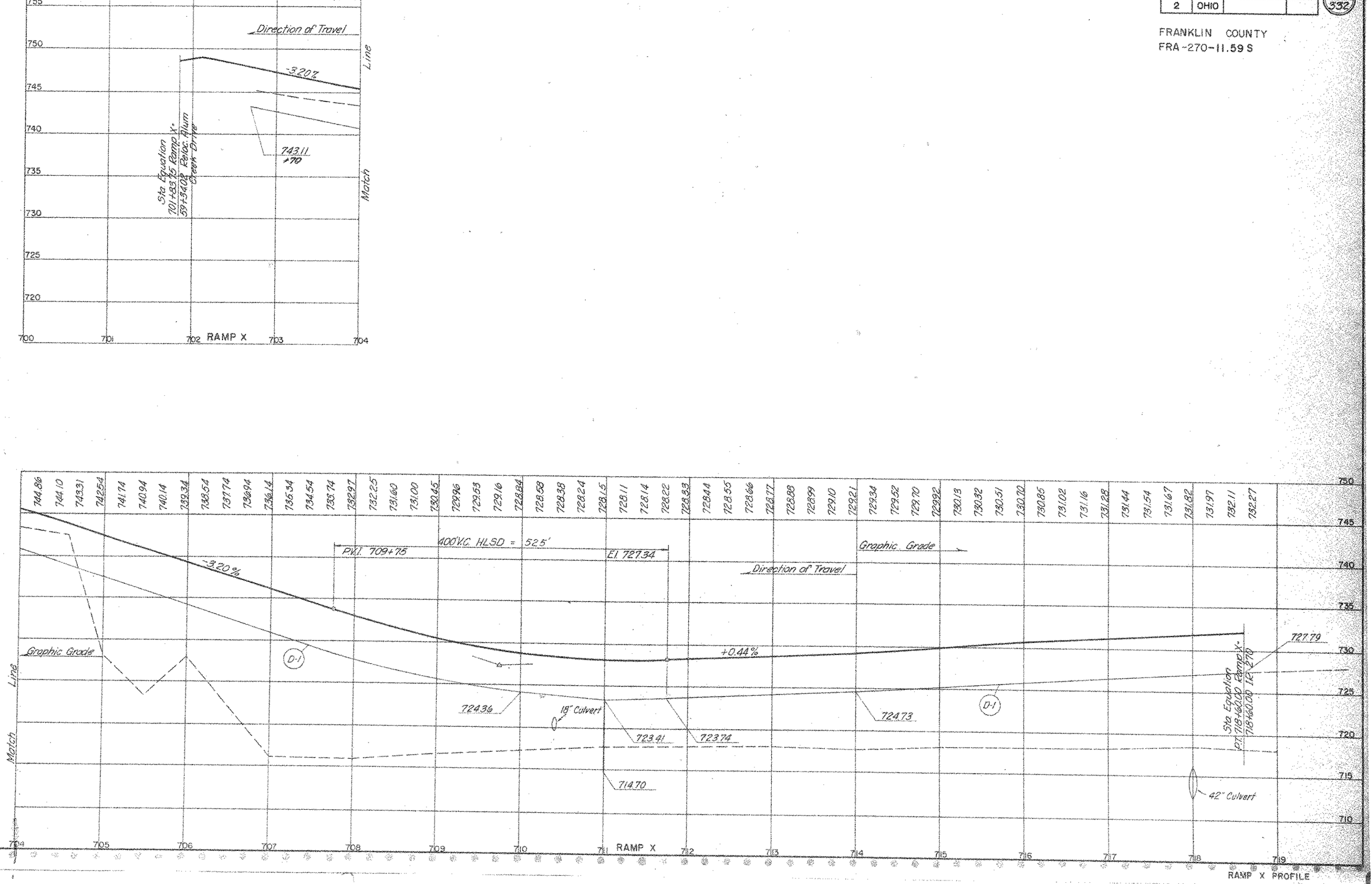
Guard Rail Type

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

58
332

FRANKLIN COUNTY
FRA-270-11.59 S



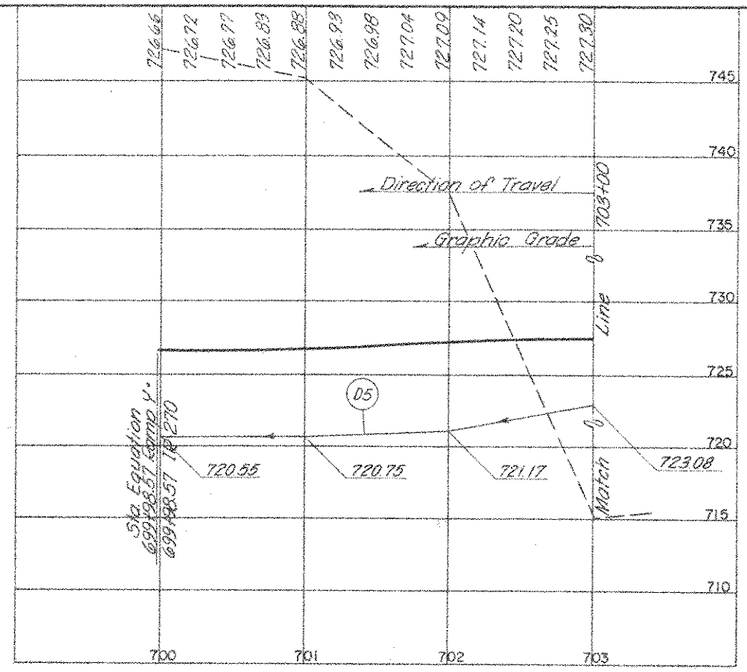


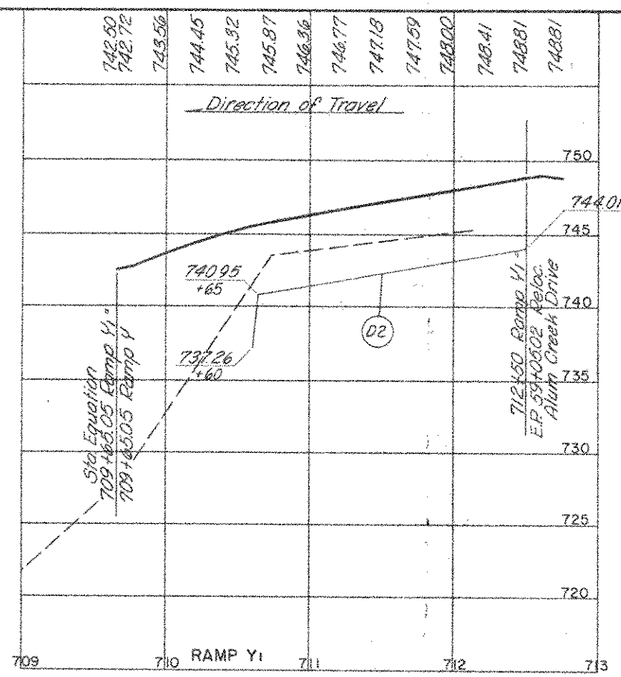
RAMP X PROFILE

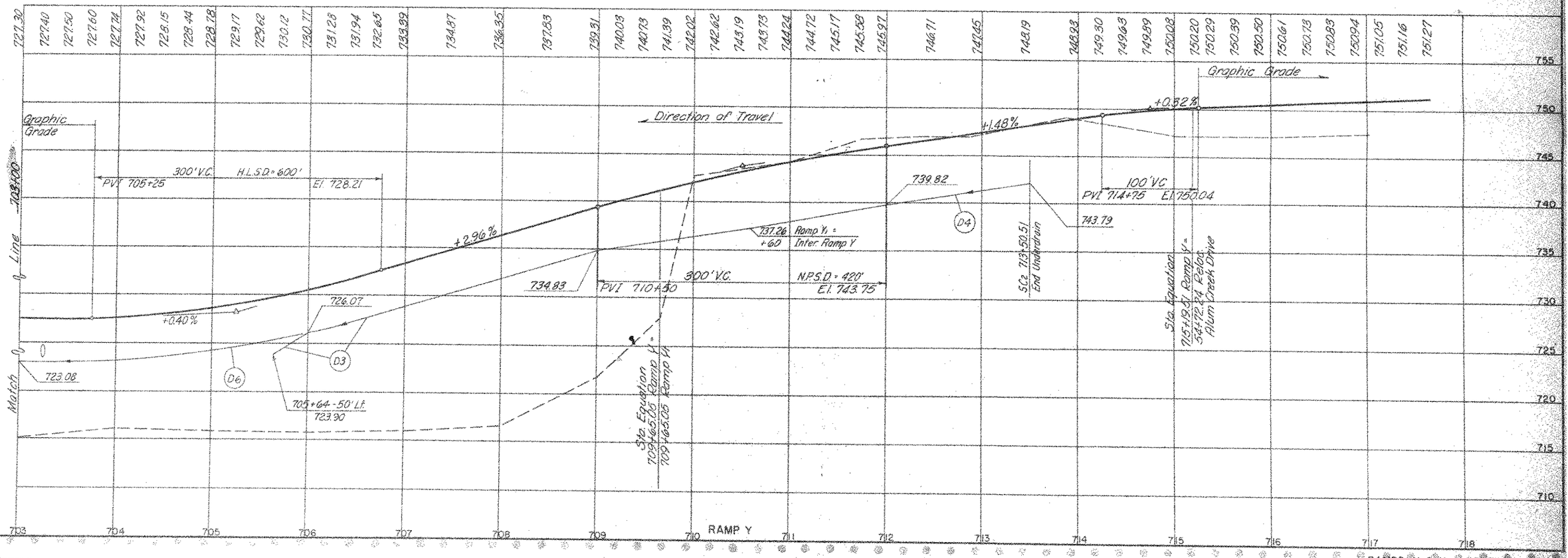
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

59
332

FRANKLIN COUNTY
FRA-270-11.59 S







RAMPS Y & Y1 PROFILE

SEEDING	
ENG. QUANTITY	AS PLANS

SHEET NO.	STATE	PROJECT	
2	OHIO		

60
332

FRANKLIN COUNTY
FRA-270-11.59 S

Limit Section

708+00 730 720 230 200 6:1 728.0 8:1 8:1 5:1 Limit of Section 731.5 5:1

736.35
708+00
716.5

707+00 730 720 230 200 95:1 95:1 726.0 7:1

733.39
707+00
715.9

For Seeding Quantity
705+00 Rt. to 709+00 Rt.
See Ramp X X-Section
Sheet #65

706+00 730 720 230 200 38:1 38:1 723.9 705+64 723.90 6" U.D. D3 706+00 726.07 8:1 24:1

730.55
706+00
715.7

For Seeding Quantity
704+00 Lt. to 56+00 Rt.
Rel. Alum Creek Drive
See Ramp Y X-Section
Sheet #62

705+00 730 720 230 200 24:1 24:1 6:1 722.6 8:1 4:1 8:1 Limit of Section 727.0

728.58
705+00
715.8

END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
0	4290		
			6185
0	4450		
	4852		
0	3570		
		1204	
0	3020		

200 150 100 50 0 50 100

RAMP Y X-SECTIONS 705+00 TO 708+00

STATE	CODE	PROJECT	
2	OHIO		

61
332

FRANKLIN COUNTY
FRA-270-11.59 S

SECTIONS	
END AREA	VOLUME

END AREA		VOLUME	
CUT	FILL	CUT	FILL
1338	0		
			884,900
28	1590		
		34	6170
0	3732		
		0	4854
50			

Limit of Section

740
730
720
710

736.07
24:1
6:1
732.0
8:1
742.02
710+00
742.8

Limit of Section

740
730
720
710

735.57
30:1
731.5
Ramp X
8:1

741.13
709+65.05
727.7

740
730
720

734.07
40:1
6:1
730.50
8:1

739.31
709+00
721.7

740
730
720

250 200 150 100 50 0 50

RAMP Y X-SECTIONS 709+00 TO 710+00

SEEDING	
END AREA	SQ. YDS.

STATE	PROJECT
OHIO	

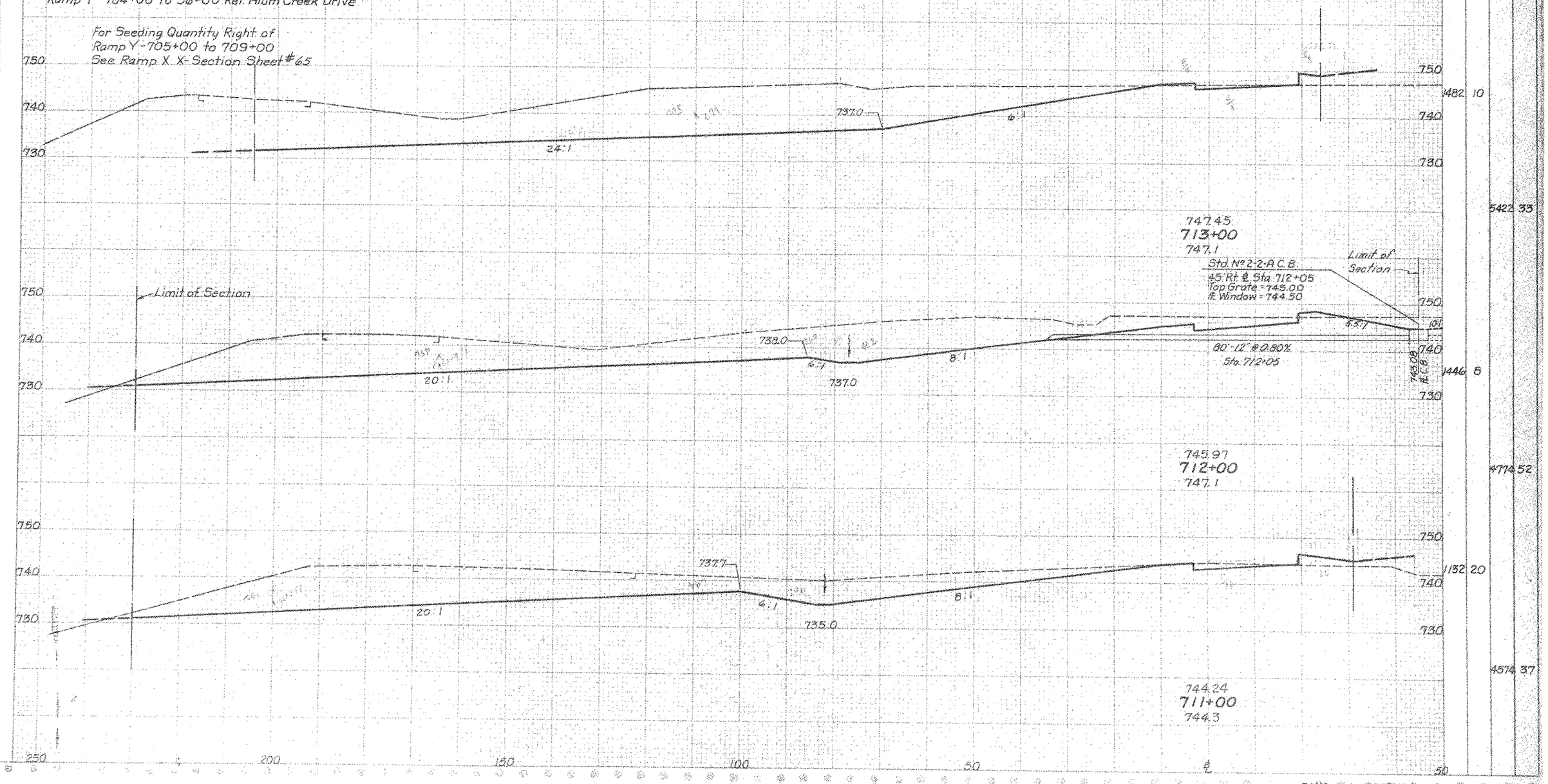
62
332

FRANKLIN COUNTY
FRA-270-11.59S

4305	Ramp Y
1667	Seeding Quantity for Area bounded by Ramps Y, Y1, and Rel. Alum Creek Drive
12638	Seeding Quantity for Area Left of Ramp Y-704+00 to 56+00 Rel. Alum Creek Drive

For Seeding Quantity Right of Ramp Y-705+00 to 709+00 See Ramp X, X-Section Sheet #65

Earthwork Quantity Ramp Y Total to Sub Summary	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
			15688	65289



482	10
5422	33
1446	8
4774	52
1132	20
4574	37

RAMP Y X-SECTIONS 711+00 TO 713+00

FED. AID PROJECT	STATE	PROJECT	
2	OHIO		

63
332

FRANKLIN COUNTY
FRA-270-11.59S

Edge of Residence
Face of Garage

Ramp Y

740.94
705+50
723.4

742.54
705+00
728.2

Limit of Section

745.86
704+58
742.5

Ramp Y

Ramp Y1

745.44
704+00
743.4

Ex. 135, 18" @ 13.0%

705+96
735.00

755.2

Limit of Section
703+25 to 704+00

735.35

746.77
703+25
744.4

For Seeding See Ramp Y Sheet # 62

For Earthwork 702+23 - 702+75

747.59
702+75
745.2

702+23

	SECTIONAL AREA CUT	SECTIONAL AREA FILL	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
705+50			0	1268		
	386				65	1800
705+00			70	676		
	331				154	549
704+58	532		128	30		
					376	133
704+00	83		222	94		
	700				705	294
703+25	411		284	118		
					280	207
702+75	63		18	106		
	364				35	204
702+23	63		18	106		

RAMP X X-SECTIONS 702+75 TO 705+96

FED. AID SYSTEM	STATE	PROJECT	
2	OHIO		

64/332

FRANKLIN COUNTY
FRA-270-11.59 S

SEEDING

CUT WIDTH	CUT SLOPE
103	1133
101	
101	
106?	91
93	71
433	

730.45
709+00
716.6

732.97
708+00
715.9

736.14
707+00
716.2

739.34
706+00
728.0

730
720
710
740
730

4:1
8:1
24:1
6:1
5:1
60:1

714.6
714.8
715.00
728.00
731.0
739.0

709+00
150
200

708+00
150
200

Limit of Section
Limit of Section
708+00 to 709+00
Limit of Section
707+00 to 708+00

Ahead
Back

Variable

For Seeding Right of Ramp X See next sheet

END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
		34	2814
		93	11111
Ahead		16	3186
Back		16	2732
		48	8689
		10	1960
		148	4907
		70	690
		65	1813

150 100 50 0 50 100 150

RAMP X X-SECTIONS 708+00 TO 709+00

FED. AID PROJECT	STATE	PROJECT	
2	OHIO		

65
332

FRANKLIN COUNTY
FRA-270-11.59S

26032 Ramp X

Seeding Quantity for Area bounded by
Ramp X Right, Ramp Y Right, and
Main Line Left

3915

730
720
710

102 — 4:1 — 4:1 — 713.6 — 729.21 — 714+00 — 717.8

1167

730
720
710

108 — 8:1 — 8:1 — 713.8 — 728.77 — 713+00 — 718.0

1150

730
720
710

99 — 6:1 — 6:1 — Limit of Section — 727.0 — 714.0 — 728.33 — 712+00 — 717.9

1144

730
720
710

107 — 6:1 — 6:1 — 725.41 — 714.70 — 714.2 — 724.0 — 728.15 — 711+00 — 717.7

1194

730
720
710

108 — 4:1 — 4:1 — 714.4 — 728.84 — 710+00 — 717.2

1172

150 100 50 ℄ 50 100 150

18" CULVERT @ 710+40
See Culvert Detail Sheet # 161

For Seeding Quantities Right of
Ramp X See this sheet

	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
Earthwork Quantity Ramps X & Y1 Total to Sub Summary			3144	50044
714+00	90	624		
			333	2578
	90	660		
			296	2733
	70	816		
			237	3215
	58	920		
			178	4252
	38	1376		
			133	7755

RAMP X — X-SECTIONS 710+00 TO 714+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

66/332

FRANKLIN COUNTY
FRA-270-11.59S

NOTE:
See next sheet for tentative profile for future Ramps T & S.
See Cross Section Layout sheet for sections for future ramps from cross section extensions on IR-270 & Rel. Alum Creek Drive for grading the northwest quadrant of the interchange.

Sta Equation
712+89.04 Ramp M =
590+05.02 Rel. Alum Cr Dr

FRANKLIN COUNTY
MADISON TWP.

VILLAGE OF OBETZ

PAVEMENT	404 Asphalt Concrete Intermediate Base	304 Aggregate Base	
Location	CY	CY	
Stegner Rd. Res. Dr. 6+95 L	2	5	
Stegner Rd. Res. Dr. 7+57.25 L	2	4	
Total	4	9	

DRAINAGE		603 12" Conduit Type D	601 Dumped Rock Channel Protection				
Code	Location	LF	CY				
D-1	6+75 to 7+75 Stegner	100					
D-2	702+00, 80' Lt.		4				
	Total	100	4				

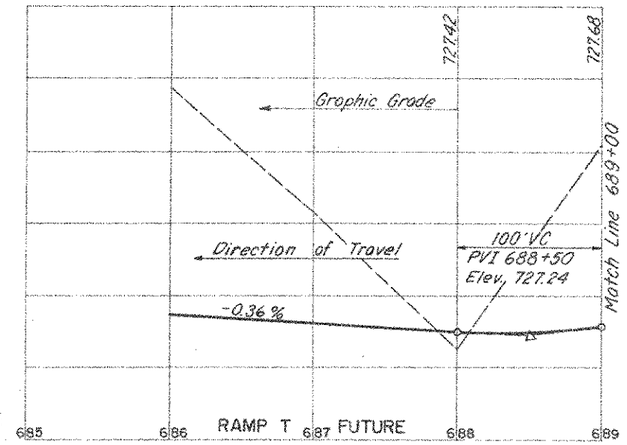
ROADWAY		606 Guardrail Type 4					
Code	Location						
R1	7+67 Stegner Rd	25					
	Total	25					

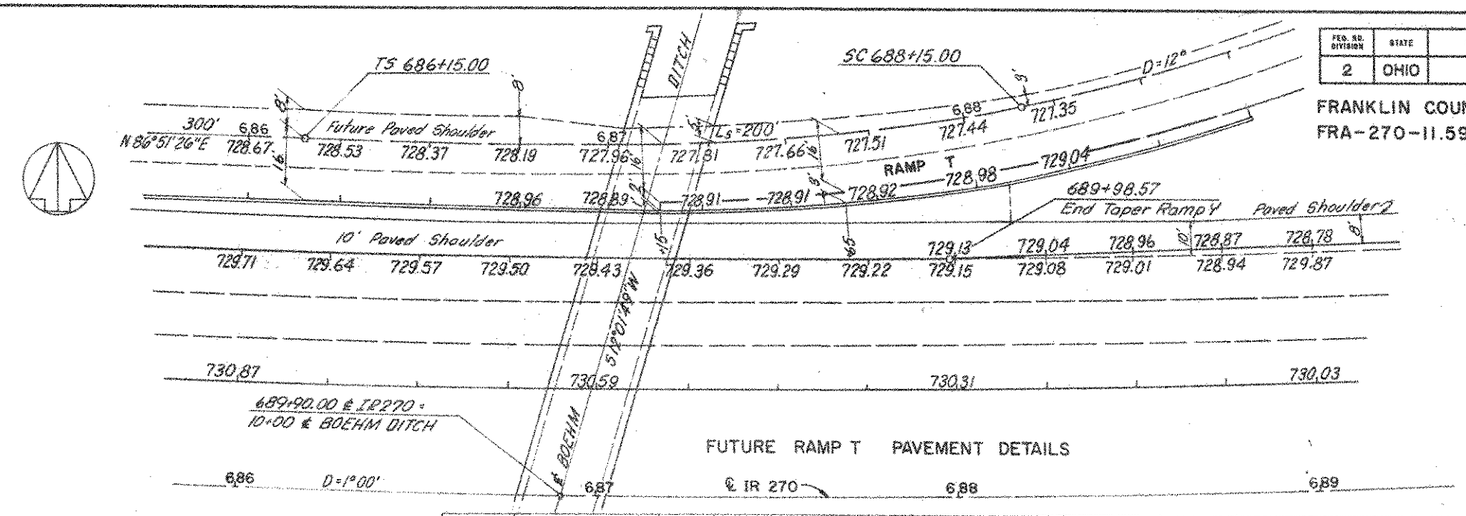
RAMPS S & T PLAN

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

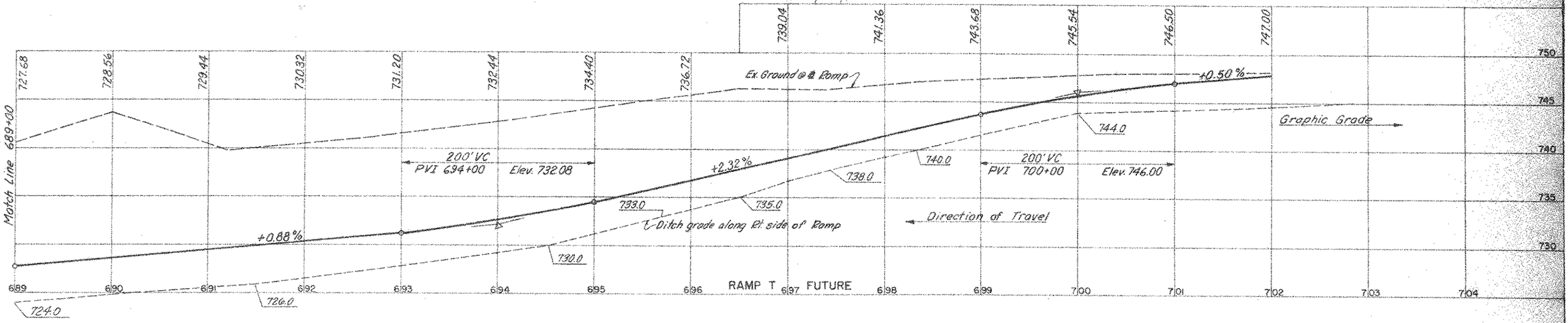
67/332

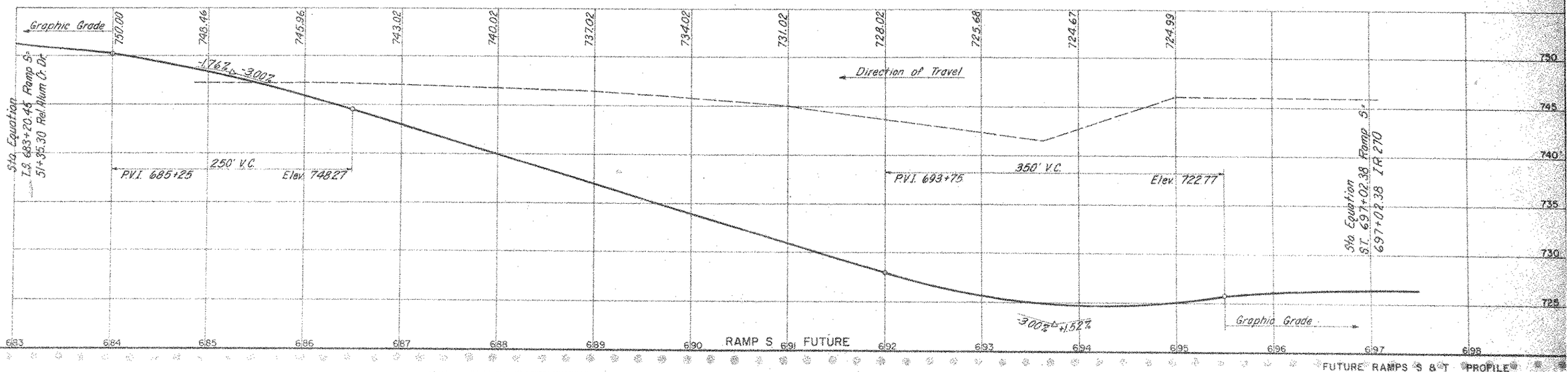
FRANKLIN COUNTY
FRA-270-11.59 S





FUTURE RAMP T PAVEMENT DETAILS



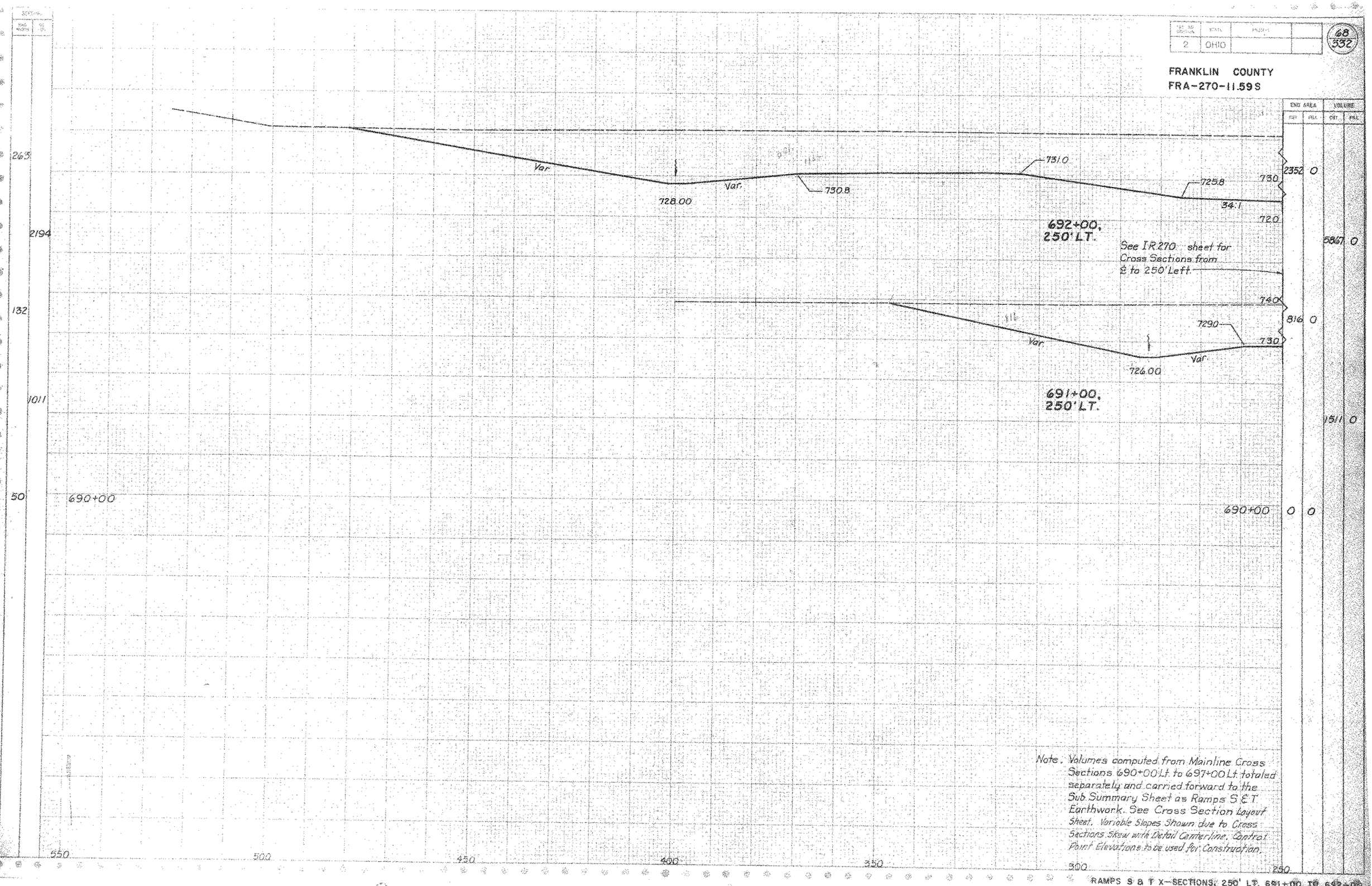


FUTURE RAMPS S & T PROFILE

SEC. NO.	STATE	PROJECT	
2	OHIO		

48
332

FRANKLIN COUNTY
FRA-270-11.59S



END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
2352	0		
		5867	0
816	0		
		1511	0
0	0		

Note. Volumes computed from Mainline Cross Sections 690+00 Lt to 697+00 Lt totaled separately and carried forward to the Sub Summary Sheet as Ramps S & T Earthwork. See Cross Section Layout Sheet. Variable Slopes Shown due to Cross Sections Skew with Detail Centerline. Control Point Elevations to be used for Construction.

RAMPS S & T X-SECTIONS, 250' LT. 691+00 TO 692+00

SHEET NO.	STATE	PROJECT	
2	OHIO		

69
352

FRANKLIN COUNTY
FRA-270-11.59 S

Earthwork Quantity
Ramps S & T
690+00 Lt. to 697+00 Lt.
Total to Sub Summary

END AREA		VOLUME	
CUT	FILL	CUT	FILL
		99445	0
		4324	0
		28470	0
		5650	0
		21767	0
		6104	0
		21695	0
		5610	0
		18085	0
		4156	0
		12052	0

26409 690+00 Lt. to 697+00 Lt.

4:1 740.00 Var. 741.8 742.0
700 650 600 550
750 740 730
700+00 Lt. 697+00 Lt.

446 740.8 740.0 738.0 735.0
33:1 27:1
750 740 730
700+00 Lt. 697+00 Lt.
697+00, 250' LT.

5033 4:1 738.0 740.6 739.0
700 650 600 550
750 740 730
700+00 Lt. 697+00 Lt.

460 737.2 735.2
8:1 32:1
750 740 730
700+00 Lt. 696+00 Lt.
696+00, 250' LT.

5122 738.0 735.00 Var. 737.0 735.0
700 650 600 550
750 740 730
700+00 Lt. 696+00 Lt.

462 734.6 732.8
750 740 730
700+00 Lt. 695+00 Lt.

4994 Var. 735.5 733.00 Var. Var.
700 650 600 550
750 740 730
700+00 Lt. 695+00 Lt.
695+00, 250' LT.

See TR 270 sheet for
Cross Sections from ℄ to 250' Left

437 735.4 731.0
750 740 730
700+00 Lt. 694+00 Lt.

4511
600 550
740
700+00 Lt. 694+00 Lt.
694+00, 250' LT.

375 Var. Var. 732.0 732.1 731.1
3544 730.00
550 500 450 400 350 300 250
740 730
700+00 Lt. 693+00 Lt.
30:1
693+00, 250' LT.

RAMPS S & T X-SECTIONS, 250' LT. 693+00 TO 697+00

RTE NO. SYSTEM	STATE	PROJECT	
2	OHIO		

70
332

FRANKLIN COUNTY
FRA-270-11.59 S

SEEDING END WIDTH	SEEDING SQ YDS			END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
	7895	52+00 Lt. to 57+40 Lt.					
		750					
		740					
30	178	57+40				12052	0
50		57+00		0	0		
	1289	750		30	0	22	0
182		740				522	0
	2261			252	0		
		750				1541	0
225		740		580	0		
	2128					2859	0
158		750					
		740		964	0		
	1389					4067	0
92		750					
		53+00		1232	0		
		740					
25	650					3041	0
		730		410	0		
		52+00					

Note: Volumes computed from Relocated Alum Creek Drive Cross Sections 52+00 Lt. to 57+40 Lt. totaled separately and carried forward to the Sub Summary Sheet as Ramps S & T Earthwork. See Cross Section Layout Sheet.

Earthwork Quantity
Ramps S & T
52+00 Lt. to 57+40 Lt.
Total to Sub Summary

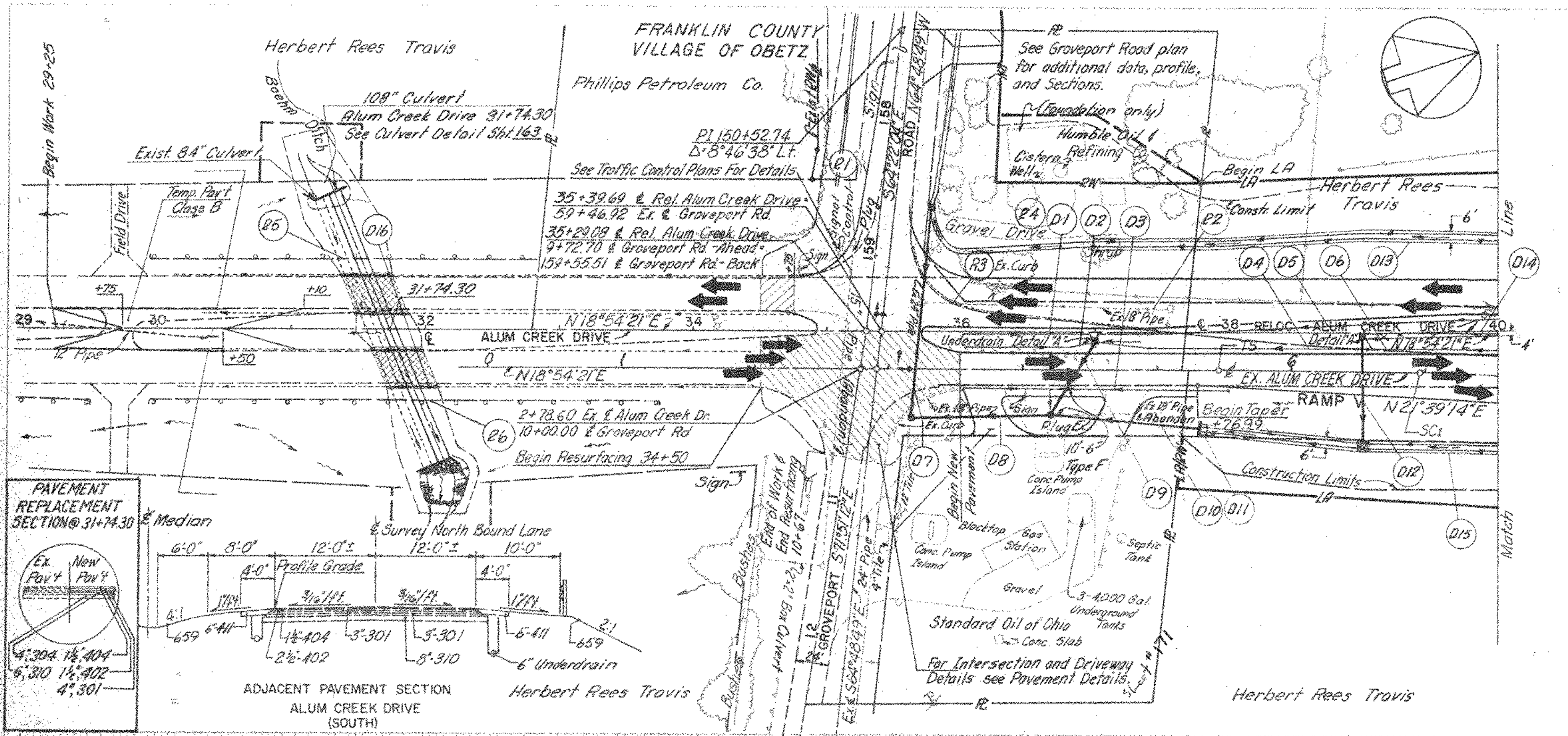
750
Variable
740
57+00, 150' LT.
See Reloc. Alum Creek X-Sections
57+40
57+00 Lt.
750
744.0
746.0
Variable
740
56+00, 150' LT.
750
Limit of Section
Ramp
743.5
743.0
50:1
740
55+00, 150' LT.
See Reloc. Alum Creek X-Sections
750
740
745.8
744.8
739.8
400
350
300
250
54+00, 150' LT.
See Reloc. Alum Creek Drive X-Sections
Limits of Section
750
740
730
52+00 150' LT.
750
740
Variable
53+00 150' LT.
730
End Area 52+00 Lt.
180
150
250
200
150

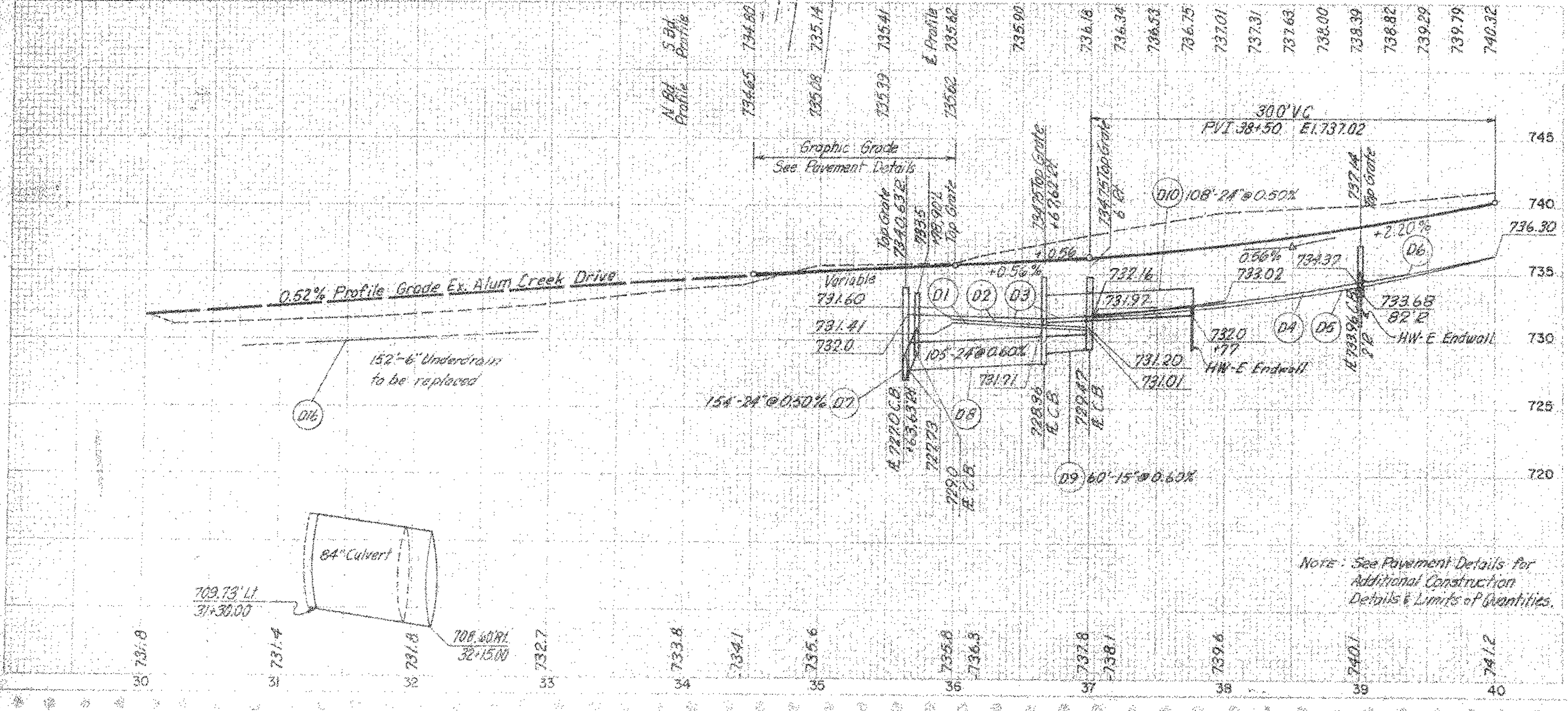
RAMPS S & T X-SECTIONS, 150' LT. 52+00 TO 57+00

2	OHIO

71/332

FRANKLIN COUNTY
FRA-270-11.59S

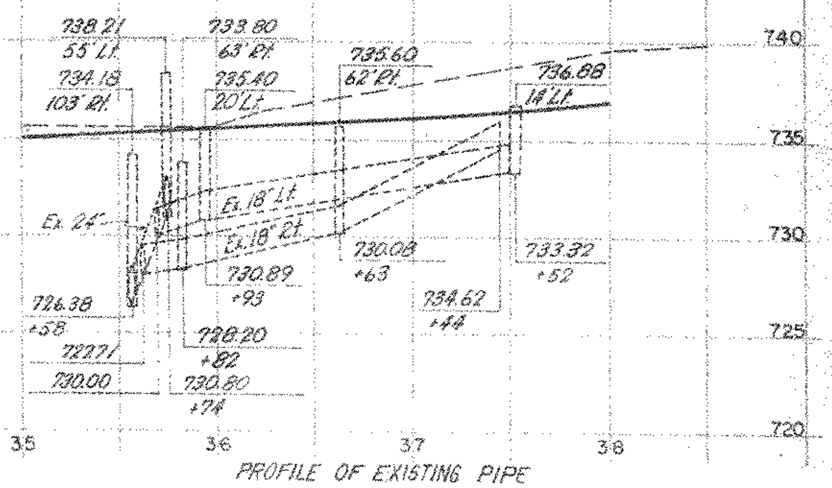




Note: See Pavement Details for Additional Construction Details & Limits of Quantities.

DRAINAGE		601	602	603					604		605	Special		660	667
		Rip Rap	Concrete Masonry	6" Conduit Type B, Class B	6" Conduit Type F	15" Type B w/6 Bed	24" Type D 706.02 or 706.08	24" Conduit Type B, Class B	Standard No. 2-2-A Catch Basin	Standard No. 2-2-B Catch Basin	6" Pipe (Shallow) Underdrain	6" Pipe Underdrain Bend	6" Pipe Underdrain Branch	Sodding	Jute Matting
Code	Location	S.Y.	C.Y.	L.F.	L.F.	L.F.	L.F.	L.F.	Ea.	Ea.	L.F.	Ea.	Ea.	S.Y.	S.Y.
D1	36+00 to 37+00 Rt.				10						87	1			
D2	36+00 to 37+00 Rt.				10						90	1			
D3	36+00 to 38+00 Rt.			210	20								1		
D4	37+00 to 39+00 Rt.				10						185	1			
D5	37+00 to 40+00 Lt.				10						291	2			
D6	39+00 to 40+00 Rt.				10						97		1		
D7	35+63 Lt. to Rt.							151	1	1					
D8	35+63 to 36+63 Rt.						100			1					
D9	36+63 to 37+00					60				1					
D10	36+63 to 37+77 Rt.		0.36				108								
D11	37+78 Rt.	3													
D12	39+00 Rt.		.41			80			1						
D13	37+00 to 40+00 Lt.													300	
D14	39+00 to 40+00 ℄														44
D15	37+77 to 40+00 Rt.													149	
D16	31+36 to 32+10 Lt. & Rt.										152				
	Total	3	0.77	210	70	140	208	151	2	2	902			449	45

ROADWAY		202				606	SPECIAL
		Pipe Removed 24" & Under	Inlet Removed	Curb Removed	Guard Rail Removed for Reuse	Guardrail Rebuilt	Drilled Well Aband.
Code	Location	L.F.	Ea	LF	L.F	LF	Ea
R1	35+10, 64' Lt.		1				
R2	35+69 to 37+52 Lt.	183	1				
R3	58+84 Groveport to 35+00 Ex. Alum Cr.			210			
R-4	36+60 110' Lt.						1
R-5	31+25 to 31+75 Lt.				50	50	
R-6	31+75 to 32+25 Rt.				50	50	
	Total	183	2	210	100	100	1



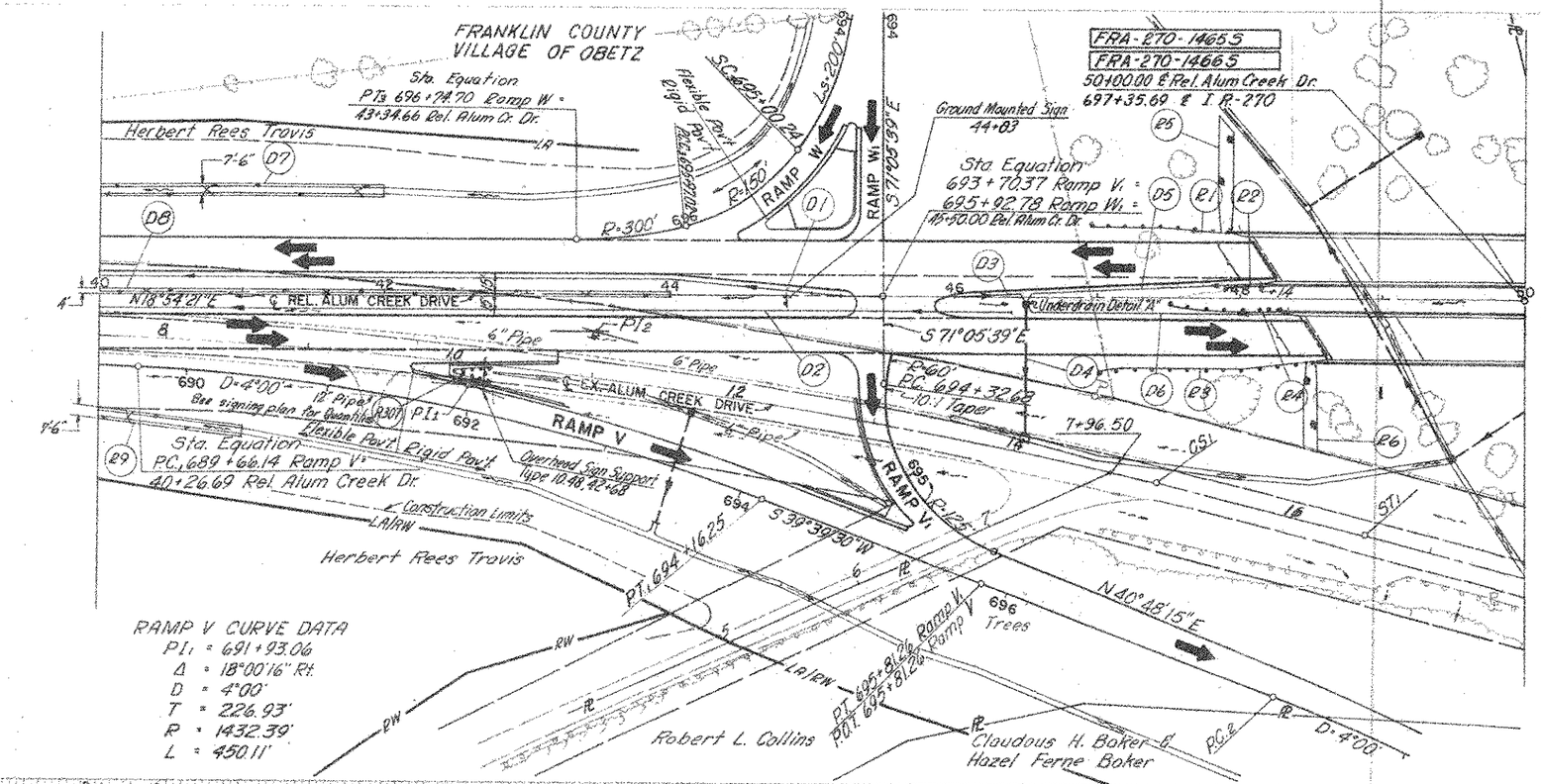
PROFILE OF EXISTING PIPE

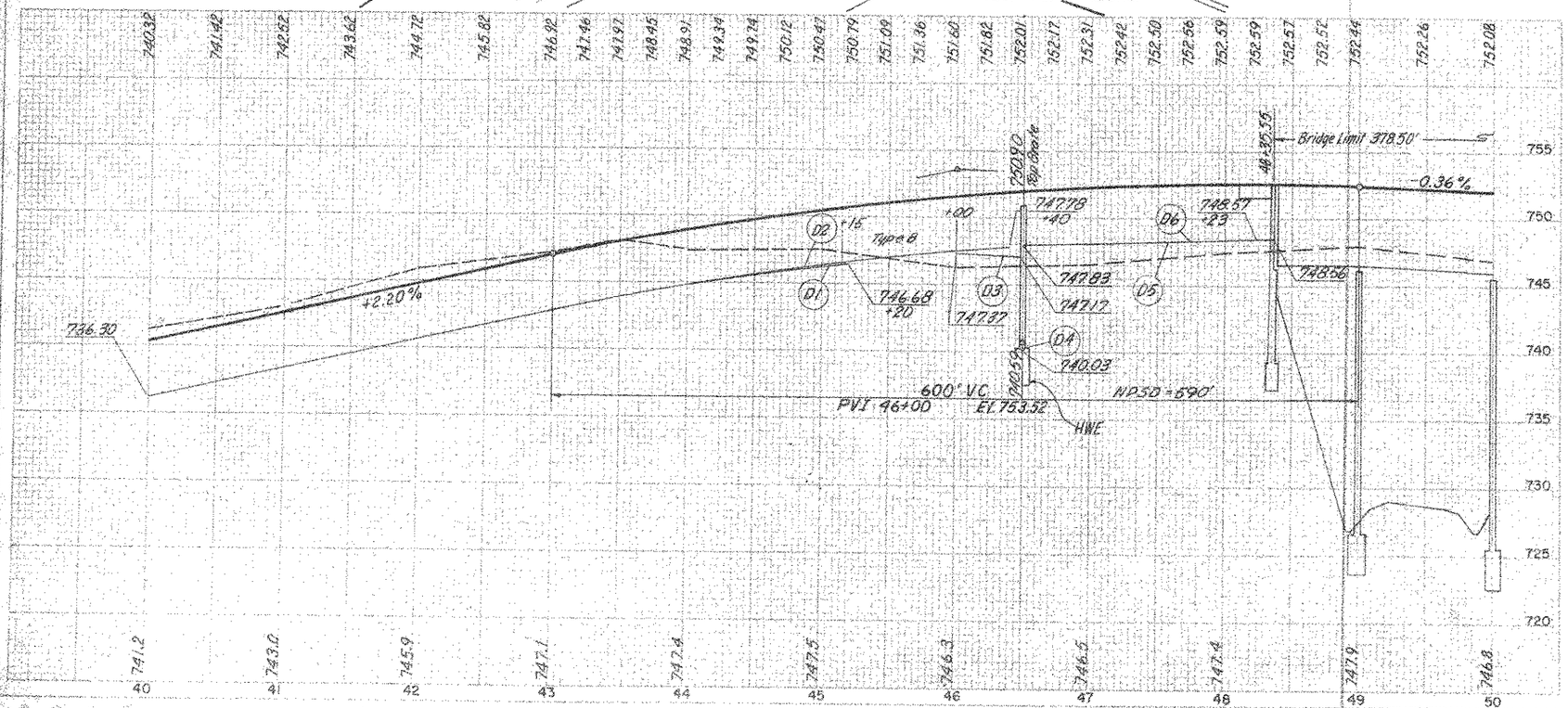
PAVEMENT	304	402	404	408	
	Aggregate Base	Asphalt Concrete (85-100)	Asphalt Concrete (85-100)	Prime Coat	
LOCATION	C.Y.	C.Y.	C.Y.	Gal.	
34+50 to 34+75 Lt.		3	3	27	
34+50 to 36+00 Rt.		44	44	422	
36+00 to 37+76.99 Rt.	70		20		
TOTAL	70	47	67	449	

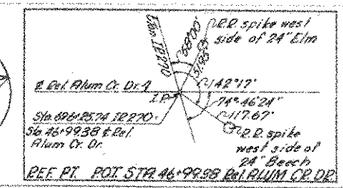
ITEM 615 CLASS B TEMPORARY PAVEMENT

LOCATION	SY
29+25 to 31+10 ℄	433
TOTAL	433

ALUM CREEK DRIVE PLAN & PROFILE 29 TO







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2	DHO		

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FRANKLIN COUNTY
FRA-270-11.59S

DRAINAGE		601		603			604	605			667
		Crushed Aggregate Slope Protection		6" Conduit Type B, Class B	12" Conduit Type B, Class B	6" Conduit Type F Standard No. 32.8 Catch Basin		6" Pipe (Shallow) Underdrain	6" Special Bend Pipe Underdrain		Slide Netting
Code	Location			L.F.	L.F.	L.F.	Ea.	L.F.	Ea.		S.Y.
D1	40+00 to 45+20 Lt.							520	1		
D2	40+00 to 46+40 Rt.			85				555			
D3	46+00 to 46+50 ℄					10		42	1		
D4	46+50 ℄				90		1				
D5	46+50 to 48+20 Lt.	2				10		155	1		
D6	46+50 to 49+35 Rt.					10		175	1		
D7	40+00 to 42+00 Lt.										167
D8	40+00 to 44+00 ℄										178
D9	40+00 to 41+00 Rt.										84
	Total	2		85	90	30	1	1447			429

ROADWAY		606 Guard Rail Type 4	660 Sodding for Special Berm & Slope Protection
Code	Location	L.F.	S.Y.
P1	46+94 to 47+94 Lt.	100	
P2	47+89 to 48+14 Lt.	25	
P3	47+00 to 48+50 Rt.	150	
P4	47+52 to 48+27 Lt.	75	
P5	47+90 Lt.		70
P6	48+50 Rt.		61
R301	42+50 Rt.	See Signing Plans for quantities	
	Total	350	131

I R 270 UNDER RELOC. ALUM CREEK DRIVE

PROPOSED STRUCTURE FRA-270-1465 S

TYPE: 4 Span cont. steel girders with reinf. conc. deck and substructure
SPAN: 63.75', 98.0', 128.25', 88.5' ℄ Brgs
LOAD FREQUENCY RATING: CF = 2000 (ST)

ROADWAY: 30'-0" F/F 2'-0" safety curbs
SKEW: 33°32'12" Rt. Fwd.
WEARING SURFACE: 1" Monolithic Conc.
APPROACH SLABS: Special (25' long)
ALIGNMENT: Tangent
SUPERELEVATION: None

ALUM ⊘ CREEK ⊘ DRIVE PLAN & PROFILE 40 TO 50

SHEET	STATE	PROJECT		
2	OHIO			

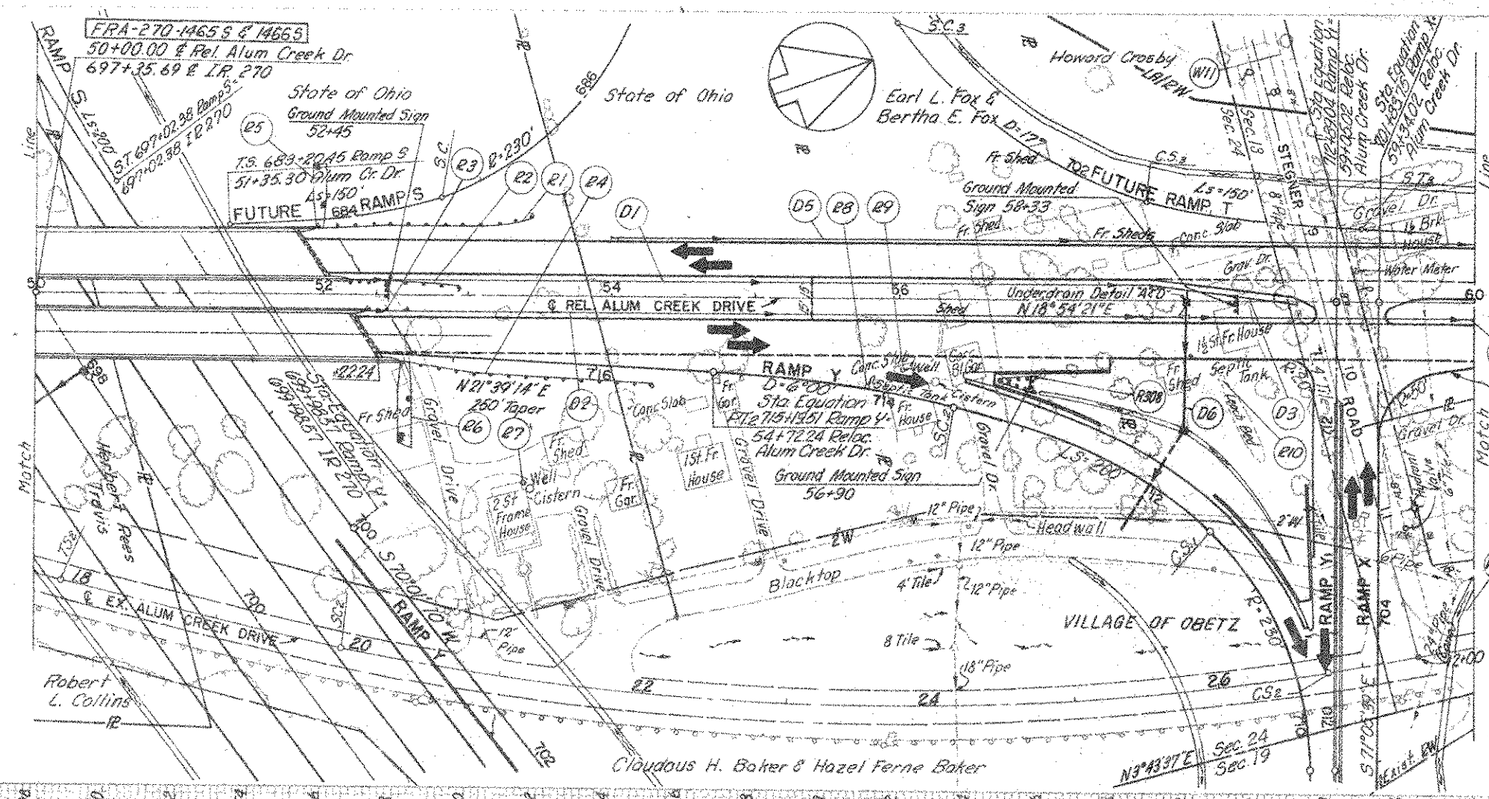
FRANKLIN COUNTY
FRA-270-11.59S

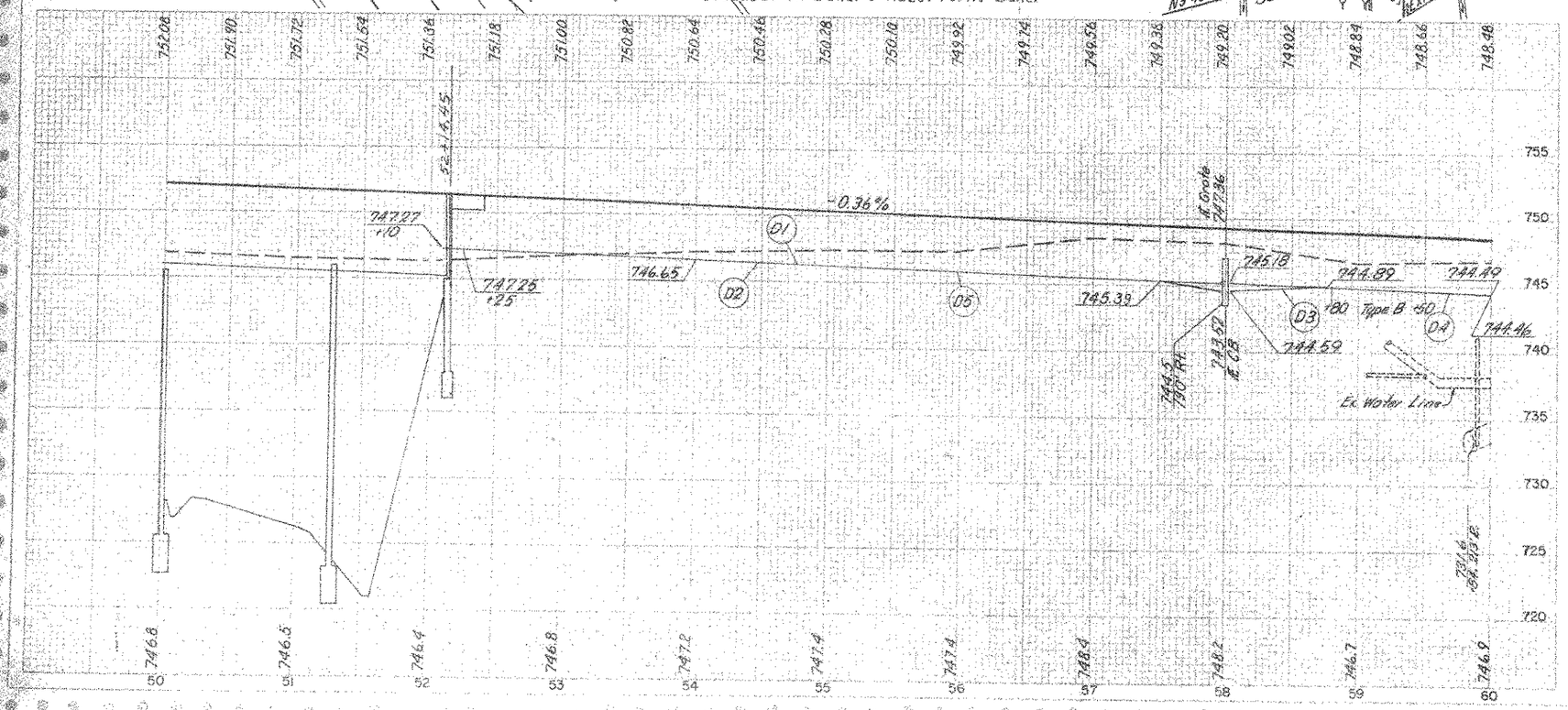
DRAINAGE			603			604	606	Special			
		6" Conduit Type B, Class B & Conduit Type F	12" Conduit Type B, Class B	Standard No. 2.2.4 Catch Basin	Standard No. 2.2.8 Catch Basin	6" Pipe (Shallow)	6" Special - Bend Pipe Underdrain	6" Special - Branch Pipe Underdrain			
Code	Location	L.F.	L.F.	Ea.	Ea.	L.F.	Ea.	Ea.			
D1	52+20 to 58+00 Lt.		10			581		1			
D2	52+36 to 58+00 Rt.		10			564		1			
D3	58+00 to 58+75 Lt.		10			70	1				
D4	58+00 to 60+00 Rt.	70				128					
D5	54+00 to 60+00 Lt.					600					
D6	58+00 ℄			87	1	1					
	Total	70	30	87	1	1	1943				

Item 814: W11, W12 details & quantities shown on Water Line Plan Sheet 130

ROADWAY		606	Special	660	Special	
		Guard Rail Type 4	Disposal of Septic Tank	Seeding for Special Berm Slope Protect'n	Drilled Well Abandoned	
Code	Location	L.F.	Ea.	S.Y.	Ea.	
R1	51+96 to 53+46 Lt.	150				
R2	52+18 to 52+93 Lt.	75				
R3	52+30 to 52+55 Rt.	25				
R4	52+54 to 54+29 Rt.	175				
R5	52+00 Lt.			43		
R6	52+57 Rt.			57		
R7	53+40 130' Rt.				1	
R8	55+80 60' Rt.		1			
R9	56+04 50' Rt.				1	
R10	58+24 53' Rt.		1			
R309	56+68 Rt.	See Signing Plan for quantities.				
	Total	425	2	100	2	

Note: See pavement details for additional data for pavement, shoulder & signing.

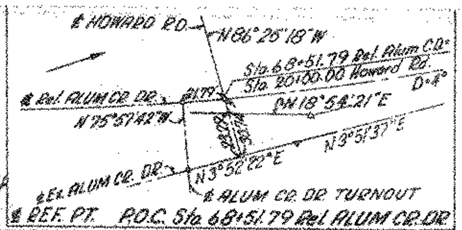


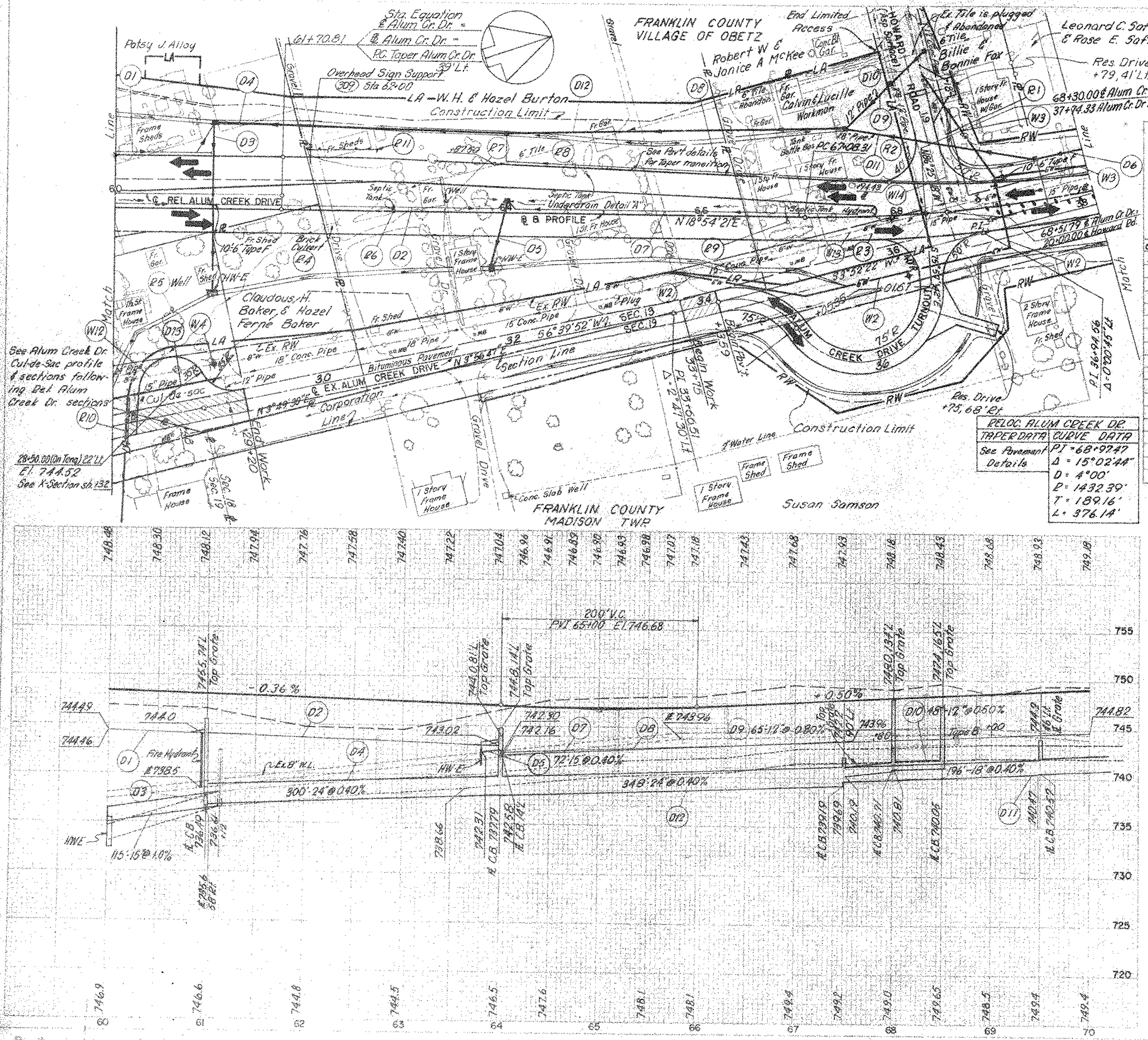


ALUM CREEK DRIVE PLAN & PROFILE 50 TO 60

2 OHIO

**FRANKLIN COUNTY
FRA-270-11.59S**





DRAINAGE		601	603										604	605			602
			Conduit														
		Crushed Aggregate	6" Type B, Class B	6" Type F	12" Type B, Class B	12" Type C, Class B	15" Type B, Class B	18" Type B, Class B	18" Type C, Class B	24" Type B, Class B	24" Type C, Class B	Std. No. 2-2-A C.B.	Std. No. 2-2-B C.B.	6" Pipe (Shallow) Underdrain	6" Special - Bend Pipe Underdrain	6" Special - Branch Pipe Underdrain	Concrete Masonry
Code	Location	S.Y.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	Ea.	Ea.	L.F.	Ea.	Ea.	C.Y.
D1	60+00 to 60+98 Lt.			10										123		1	
D2	60+00 to 64+00 Rt.			20										387	1		
D3	61+00 ℄	2								173		1					0.41
D4	61+00 to 64+00 Lt.										300	1					
D5	63+84 to 64+00 Rt.	2					68					1					0.26
D6	69+50 to 70+00 Lt.								50								
D7	64+00 to 67+50 Lt.			10										350	1		
D8	64+00 to 70+00 Lt.		160	20										448	1		
D9	67+50 to 68+00 Lt.					65						1					
D10	68+00 to 68+50 Lt.				48							1					
D11	67+50 to 69+50 Lt.							196					1				
D12	64+00 to 67+48										348	1					
D13	60+00 to 61+15 Rt.	2					115										.26
	I Section Total	6	160	60	48	65	183	196	50	173	648	6	1	1309			0.93

Item 814: W-2, W3, W-4, W12, W13, W14 details & quantities shown on Water Line Plan Sheet 130

ROADWAY		202			606	SPECIAL	SPECIAL
		Pipe Removed 24" & Under	Inlets Removed	Culvert Removed	Guard Rail Type 4	Disposal of Septic Tank	Drilled Wells Abandoned
Code	Location	L.F.	Ea.	Sum	L.F.	Ea.	Ea.
R1	68+60 Lt.	175	1				
R2	68+00 Lt.	160	1				
R3	66+30 to 70+00 Rt.	380	3				
R4	63+20 15' Rt.			Lump			
R5	60+60 120' Rt.						1
R6	62+87 ℄					1	
R7	63+41 9' Lt.						1
R8	64+83 41' Lt.					1	
R9	66+85 10' Rt.					1	
R10	27+95, Lt. to Rt. Ex. Alum Cr. Dr.				50		
R11	61+97 to 62+72 Lt.				75		
	I Section Total	715	5	Lump	125	3	2

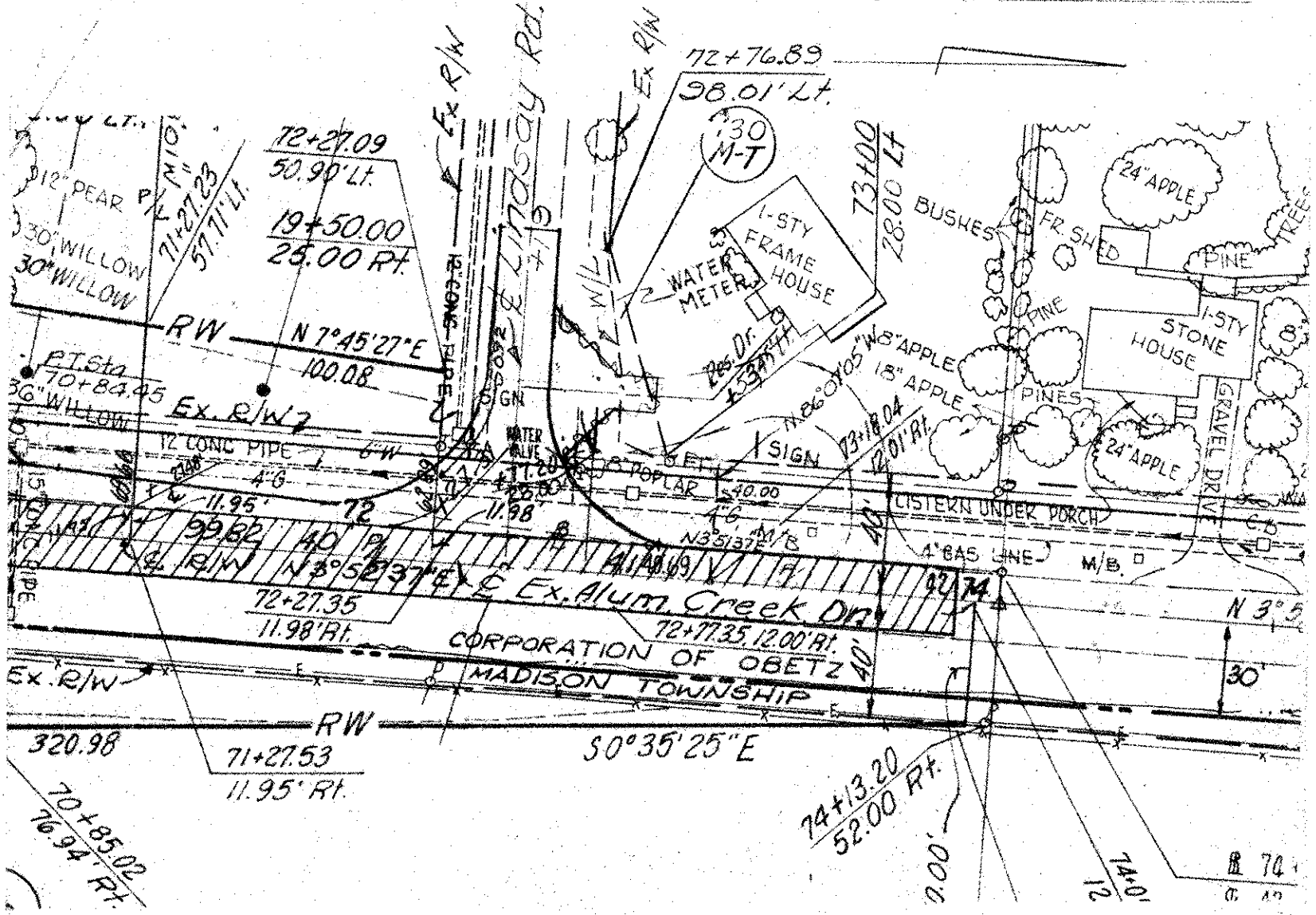
PAVEMENT	304	402	404		408	613
	Aggregate Base	Asphalt Concrete (85-100)	Asphalt Concrete (85-100)		Bituminous Prime Coat	Traffic Dividers
LOCATION	C.Y.	C.Y.	C.Y.		Gal.	Ea.
33+75 to 34+13.69		1	1		13	
36+75 Rt.	18		7			
18+79 Lt. Howard Rd.	15		6			
68+92 to 70+00 ℄						13
I Section Total	33	1	14		13	13

Note: See pavement detail sheet 176 for location of traffic dividers.

See sheet 75 for temporary pavement quantities.

FRA-270-11.595
I-IG-270-4(2)102

CHANGE ORDER NO. _____ DATE _____



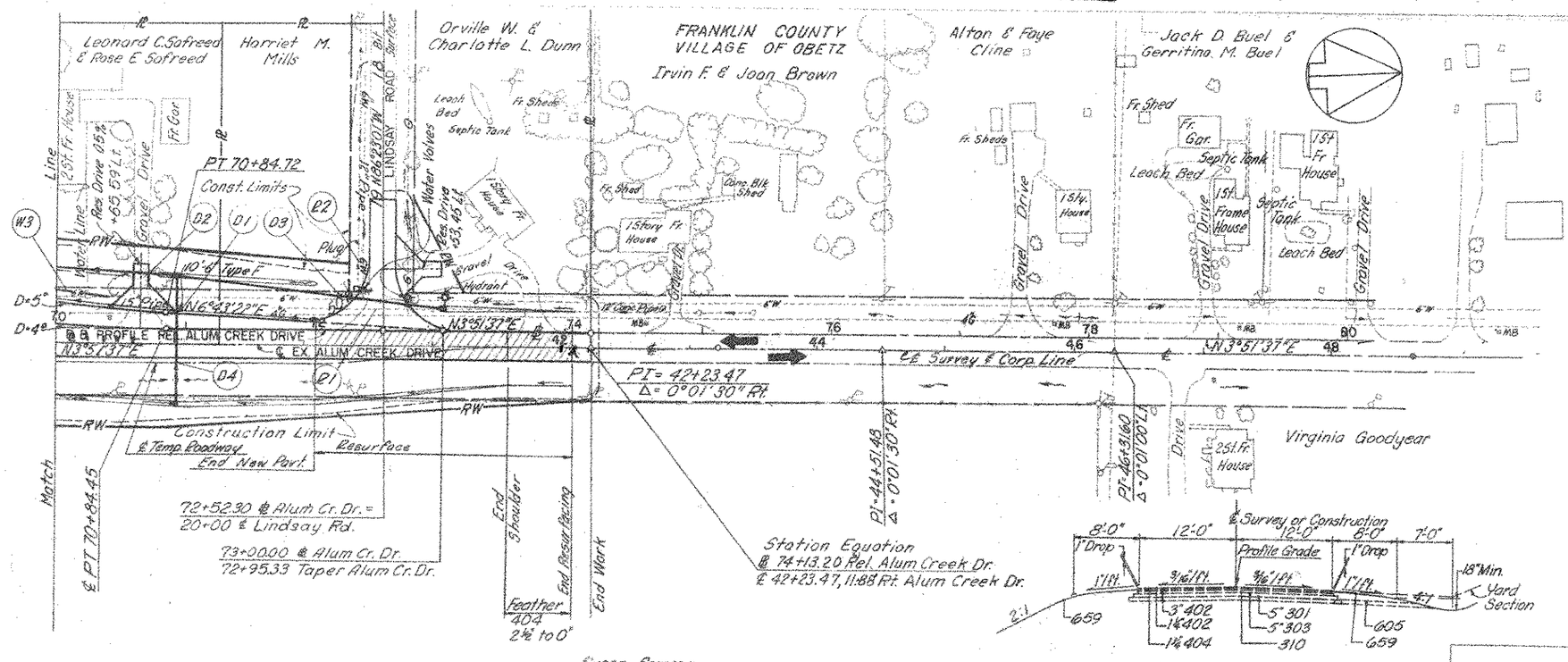
WORK REQUIRED

Delete Res. Drive Sta. 19+53 Lt. On Lindsay Road and Revise Work Limits As Per This Change Order.

QUANTITIES

	Deductions
Item 304 Aggregate Base	-12 Cu. Yds.
Item 404 Asphalt Conc. (85-100)	- 5 Cu. Yds.

FRANKLIN COUNTY
FRA-270-11.59S



ADJACENT PAVEMENT SECTION
ALUM CREEK DRIVE

DRAINAGE	603				604	605	603	
	12" Conduit Type C, Class B	12" Conduit Type B, Class B	15" Conduit Type B, Class B	8" Conduit Type F	Standard No. 22.2 B Catch Basin	6" Pipe (Shallow) Underdrain	18" Conduit Type C, Class B	
Code Location	L.F.	L.F.	L.F.	L.F.	Ea.	L.F.	L.F.	
D1 70+00 to 72+02 Lt.				10		192		
D2 70+00 to 70+93 Lt.							93	
D3 70+93 to 73+00 Lt.	130	80			1			
D4 70+92 ℄			100		2			
I Section Total	130	80	100	10	9	192	93	

Item 814: W3 details & quantities shown on Water Line Plan Sht. 130

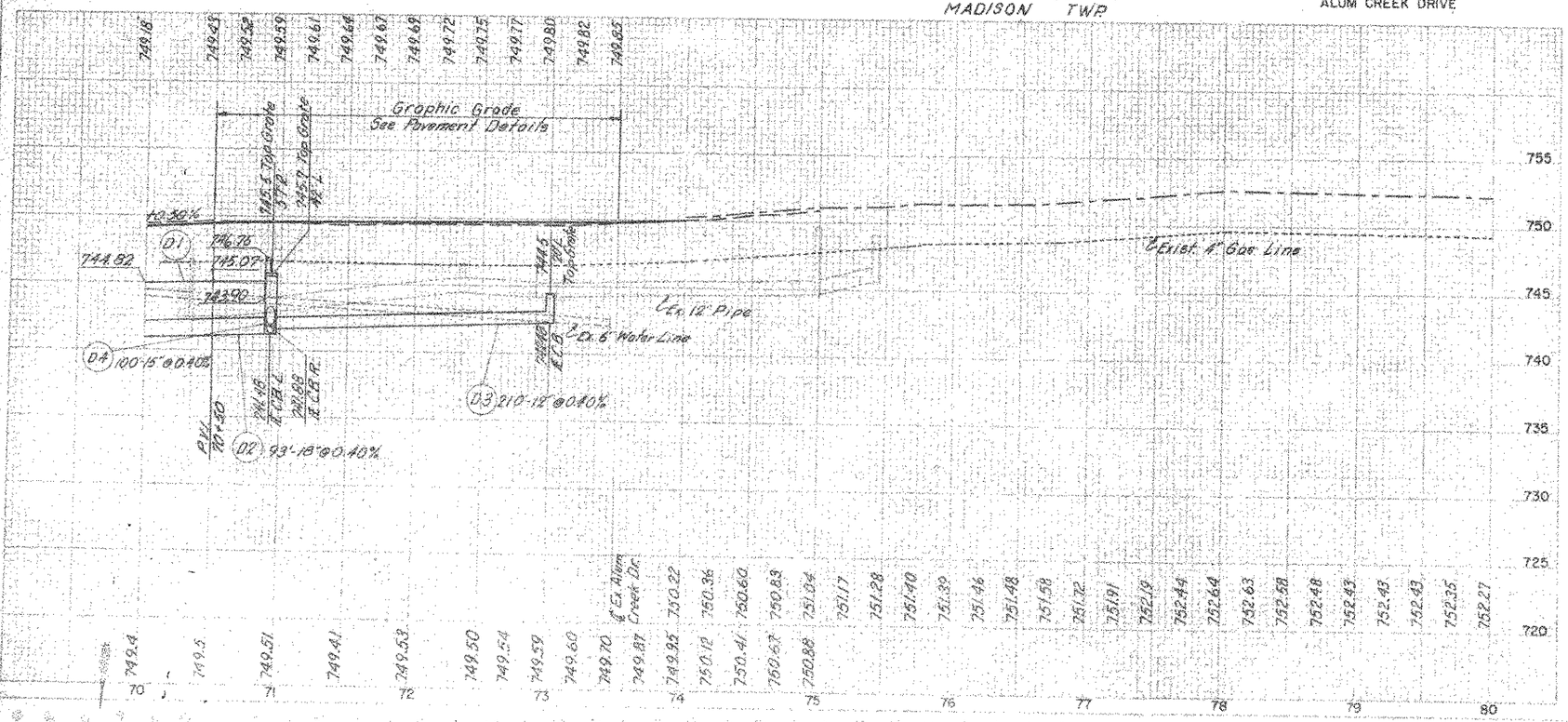
ROADWAY	202 Pipe Removed 24" & Under	202 Inlets Removed		
Code Location	L.F.	Ea.		
P1 70+00 to 73+00 Lt.	300	2		
P2 72+35 Lt.	30	1		
I Section Total	330	3		

PAVEMENT	304 Aggregate Base		404 Asphalt Concrete (PG 64-22)		613 Traffic Dividers
LOCATION	C.Y.		C.Y.		Ea.
70+65 Lt.	13		5		
70+12 to 70+60 ℄					5
19+53 Lt. Lindsay Rd.	12		5		
I Section Total	25		10		5

TEMPORARY ROADWAY	410 Traffic Compacted Surface		615 Temporary Roadway	616 Calcium Chloride	
LOCATION	C.Y.		Lump	Tons	
19+00 to 19+98 Lindsay	25		Lump	0.08	
18+75 to 19+15 Howard	10		Lump	0.03	
69+00 to 73+50 Rt.	76		Lump	0.22	
I Section Total	111		Lump	0.33	

Susan Samson

FRANKLIN COUNTY
MADISON TWP



SHEET NO.	STATE	PROJECT	
2	OHIO		

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FRANKLIN COUNTY
FRA-270-11.59 S

	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
Ahead 36+25	628	0		
Back 36+25	544	0	448	0
Resume Earthwork 36+00	424	0		
Suspend Earthwork 34+85	78	0	246	0
	78	0	58	0
33+60	0	0		

141 Ahead
84 Back
192
54 Resume Seeding 36+00
53 Suspend Seeding 34+85
501
53 118 0

Limit of Section
Forward Back
12:1
4:1
733.81
18"-20' Lt. IE 731.21
735.76
36+25
736.3
24" 228.06 63° Lt.
Ex. 18" Pipe IE 729.14 632 Lt.
734.3 Lt. 55.62
8:1
733.25
735.62
36+00
735.8
2x2 C.B. 35+93
Top 735.40
18" in 730.89
18" out 730.84
24" 227.94 63° Lt.
736.20 Lt. 63 Lt.
Ex. 18" Pipe IE 728.20 64° Lt.
Std. N°2-2-A C.B.
90' Lt. & Sta. 35+78
Top Grate = 733.50
IE Window = 733.00
738.21 56' Lt.
Ditch Profile
729.0 IE C.B.
730.79 35+45
15.4' 24" @ 0.50%
735.06
35+00
735.6
Std. N°2-2-A C.B.
63 Rt. & Sta. 63+00
Top Grate = 734.00
IE Window = 733.50
734.8 102' Rt.
Ex. 24" ?
726.23
727.96 35+63
24" 727.73 IE C.B.
736.34 35+58
For Earthwork End Ditch @ 34+85
4:1
730.00
For Earthwork Begin Ditch @ 33+60
34+00
733.8
33+00
732.7
Existing 84" Culvert
31+19 731.5
32+02 731.8
Existing 84" Culvert
84" CULVERT @ 31+66.06
See Culvert Detail Sheet 163
℄
150 100 50 50 100 150

REL. ALUM CREEK DRIVE X-SECTIONS 31+19 TO 36+25

SEC. NO.	STATE	PROJECT	
2	OHIO		

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FRANKLIN COUNTY
FRA-270-11.59S

SEEDING

	END WIDTH	SQ. YDS.
177		1872
160		1778
160		1689
144		1192
126		753
145		

	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
740	940	4		
			3852	7
740	1140	0		
			3956	0
740	996	0		
			3659	0
740	980	0		
			1533	0
740	676	0		
			1085	0
740	496	0		
			1561	0
740				

739.0 — 740.49 — 742.52 — 41+00 — 743.0 — 737.0

737.0 — 738.49 — 740.32 — 40+00 — 741.2 — 736.0

735.0 — 738.39 — 39+00 — 740.1 — 733.5

Std. N° 2-2-A C.B.
2' Rt. ℄ Sta. 39+00
Top Grate = 737.14
℄ Window = 736.54

733.94
℄ C.B.

80'-15" @ 0.35%

734.5 — 736.0 — 737.01 — 38+00 — 739.6 — 739.0

Std. H.W. ℄

734.25 — 736.88 — 37.56 — 736.27 — 736.53 — 37+50 — 738.5

18" ℄ 735.32

Ex. 18" 732.9 — 28.46 ℄ — 739.76

Std. N° 2-2-A C.B.
6' Rt. ℄ Sta. 37+00
Top Grate = 735.50
℄ Window = 735.00

Std. N° 2-2-B C.B.
63' Rt. ℄ Sta. 37+67
Top Grate = 735.6

734.0 — 736.18 — 37+00 — 737.8

18"-18" Rt. ℄ 732.60

60'-15" @ 0.60%

729.47 ℄ C.B.

729.11 — 728.76 ℄ C.B. — Ex. 730.08 — 18" — 26" 731.46 — 36" 729

REL. ALUM CREEK DRIVE X-SECTIONS 37+00 TO 41+00

NO. OF SHEETS	STATE	PROJECT	
2	OHIO		

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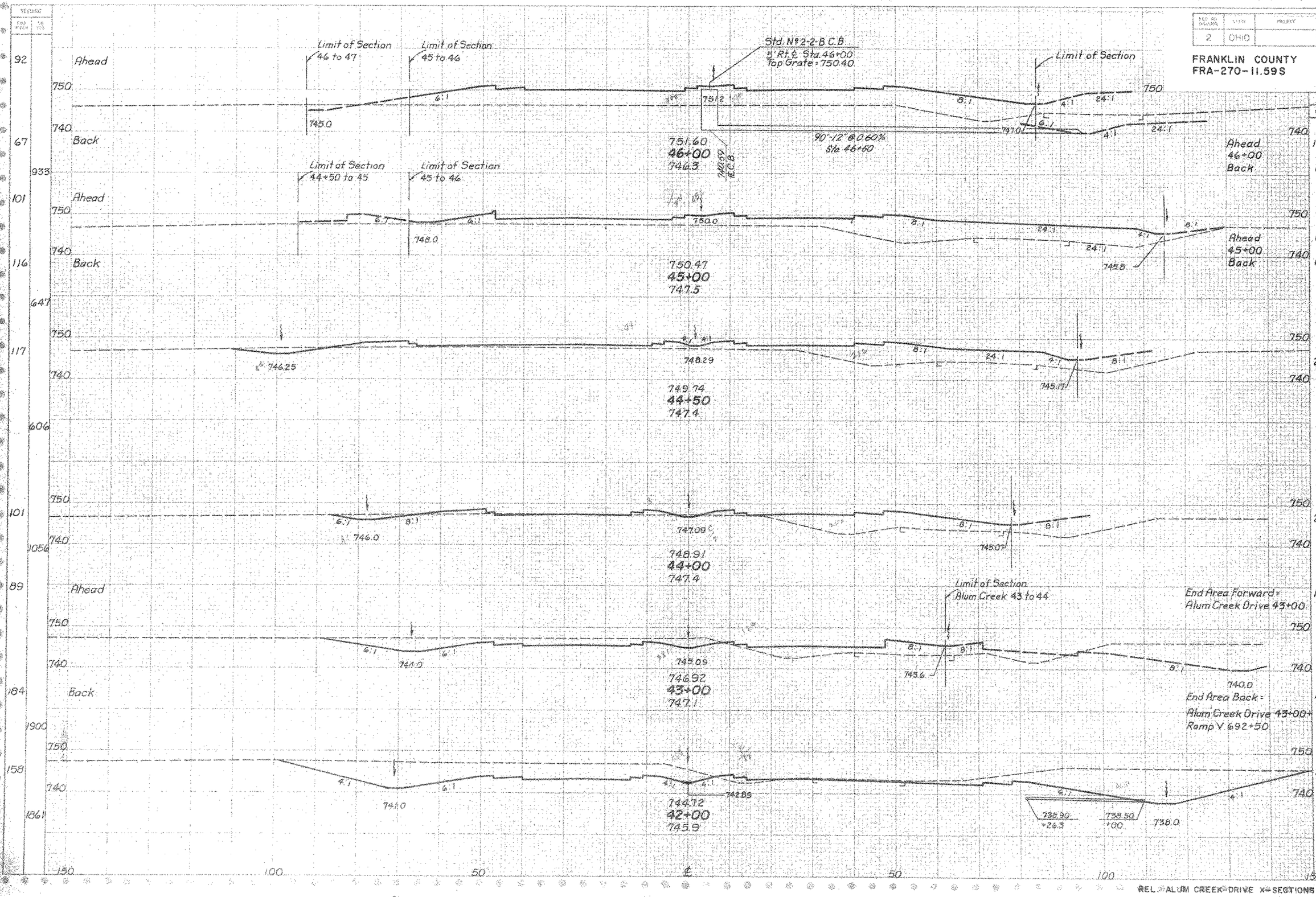
332

FRANKLIN COUNTY
FRA-270-11.59S



REL. ALUM CREEK DRIVE X-SECTIONS 42+00 TO 46+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

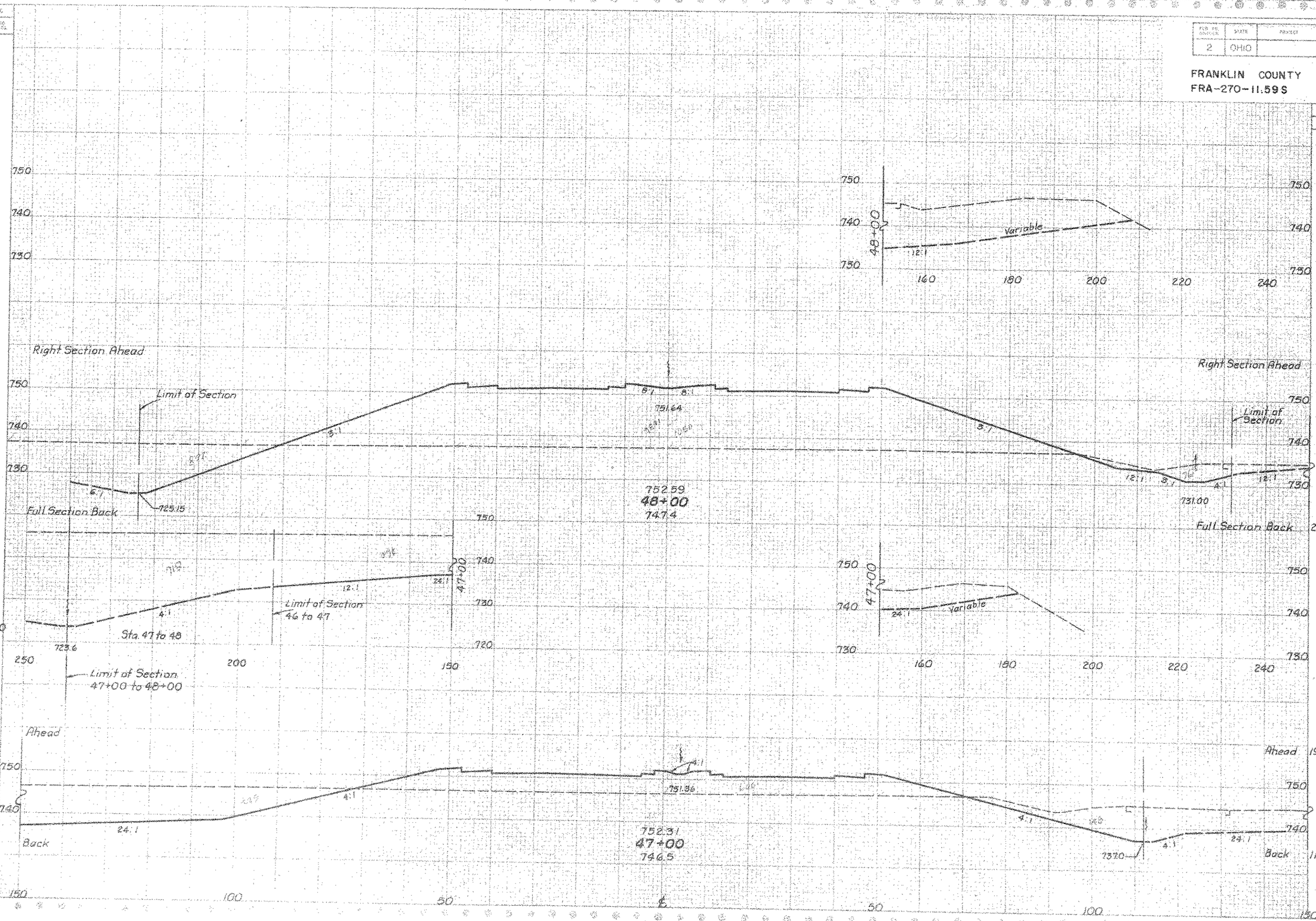
79/332

FRANKLIN COUNTY
FRA-270-11.59S

SEEDING

2YR. MIXTURE	50 LB.

END AREA		VOLUME	
CUT	FILL	CUT	FILL



REL. ALUM CREEK DRIVE X-SECTIONS 47+00 TO 48+00

DIV. NO. DIVISION	STATE	PROJECT	
2	OHIO		

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FRANKLIN COUNTY
FRA-270-11.59S

SECTIONS		END AREA		VOLUME	
CUT	FILL	CUT	FILL		
190	Ahead				
	Limit of Section				
	750				
	740				
117	Back				
	730				
	See Ramps S, E T. for extension of Cross Section Sheet # 66				
1367					
	750				
	740				
129	730				
1044	51+56 Lt. to 52+00 Lt.				
697	51+56 Rt. to 53+00 Rt.				
21556	31+19 to 48+88				
488	48+50 Rt. to 48+88 Rt.				
253	48+00 Lt. to 48+88 Lt.				
135	750				
	740				
650	730				
	150 100 50				
	Limit of Section Back Full Section Ahead	960	376		
	750				
	740				
	Left Section Back	556	216		
	730			3311	789
	52+00	1232	210		
	Embankment Quantity 51+56 Lt. to 52+00 Lt.			599	40
	Embankment Quantity 51+56 Rt. to 53+00 Rt.			2854	993
	750				
	740				
	Embankment Quantity 31+19 to 48+88 Total to Sub-Summary			5168	8315
	730				
	Embankment Quantity 48+50 Rt. to 48+88 Rt.			1220	73
	Embankment Quantity 48+00 Lt. to 48+88 Lt.			895	206
	750				
	740				
	730				
	750			1114	250
	740				
	730			1102	1204

BRIDGE LIMITS 48+35.55 to 52+12.95

REL. ALUM CREEK DRIVE X-SECTIONS 46+50 TO 53+00

STATE NO. DIVISION	STATE	PROJECT	
2	OHIO		

81
332

FRANKLIN COUNTY
FRA-270-11.59 S

SEEDING

LIME (TONS)	FERTILIZER (TONS)
264	2706
223	2294

X-SECTION AREA		VOLUME	
CUT	FILL	CUT	FILL
		944	416
		3419	1356
		902	316
		3448	1281

Limit of Section

750
740
55+00 Rt.
6%
140 160 180 200 220 240 260 280
12:1

Limit of Section

750
740
54+00 Rt.
160 180 200 220 240
12:1

Limit of Section

See Ramp S & T for extension of Section Sheet #66

750
740
80:1
6:1
4:1
4:1
748.48
750.28
55+00
747.4
4:1
10%
12:1

See Ramp S & T for extension of Section Sheet #66

750
740
38:1
6:1
4:1
4:1
5%
748.81
750.64
54+00
747.2
4:1
12:1

150 100 50 ℄ 50 100 150

REL. ALUM CREEK DRIVE X-SECTIONS 54+00 TO 55+00

DIST.	STATE	PROJECT	
2	OHIO		

82
332

FRANKLIN COUNTY
FRA-270-11.59 S

SEEDING	
END AREA	SQ. YDS.
	112
	619
	111
	658
	126
	1394
	125
	308
	3178

END AREA		VOLUME	
CUT	FILL	CUT	FILL
206	8	322	33
142	28	312	69
195	46	1677	56
496	120	4519	993
		5876	326

Std. N°2-2-B C.B.
L'Rt. & Sta. 58+00
Top Grate = 747.36

Limit of Section
Std. N°2-2-A C.B.
90' Rt. & Sta. 58+00
Top Grate = 745.00
& Window = 744.50

Ramp Y
80'-12" @ 0.8%

87'-12" @ 0.50%

749.20
58+00
748.2

745.52 E.C.B.

745.08 E.C.B.

749.38
57+50
748.3

746.4

Ahead
Limit of Section
Variable
744.50

See Ramps S & T for extension of section Sheet #66

Back

749.56
57+00
748.4

End Area Forward =
Alum Creek Drive 57+00

End Area Back =
Alum Creek Drive 57+00 +
Ramp Y 713+00

End Seeding Right Ahead

Note: Seeding between 56+00 Rt. to 60+00 Rt. shall be included in Ramp Y, Y1, & X Quantities.

56+00 Rt.

Ahead

See Ramps S & T for extension of section Sheet #66

748.09

749.92
56+00
747.4

Limit of Section
Back

REL. ALUM CREEK DRIVE X-SECTIONS 56+00 TO 58+00

SHEET NO. REVISION	STATE	PROJECT	
2	OHIO		

83
332

FRANKLIN COUNTY
FRA-270-11.59S

SECTIONS	DISTANCE	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
60+50 to 60+00	150	274	96	644	222
60+00 to 59+00	900	421	144		
59+00 to 58+50	174	56	54	189	274
	79	46	94		
	856	56	92	243	93
	75	46	25		
	467	85	110		
	93				
	569				
	93				

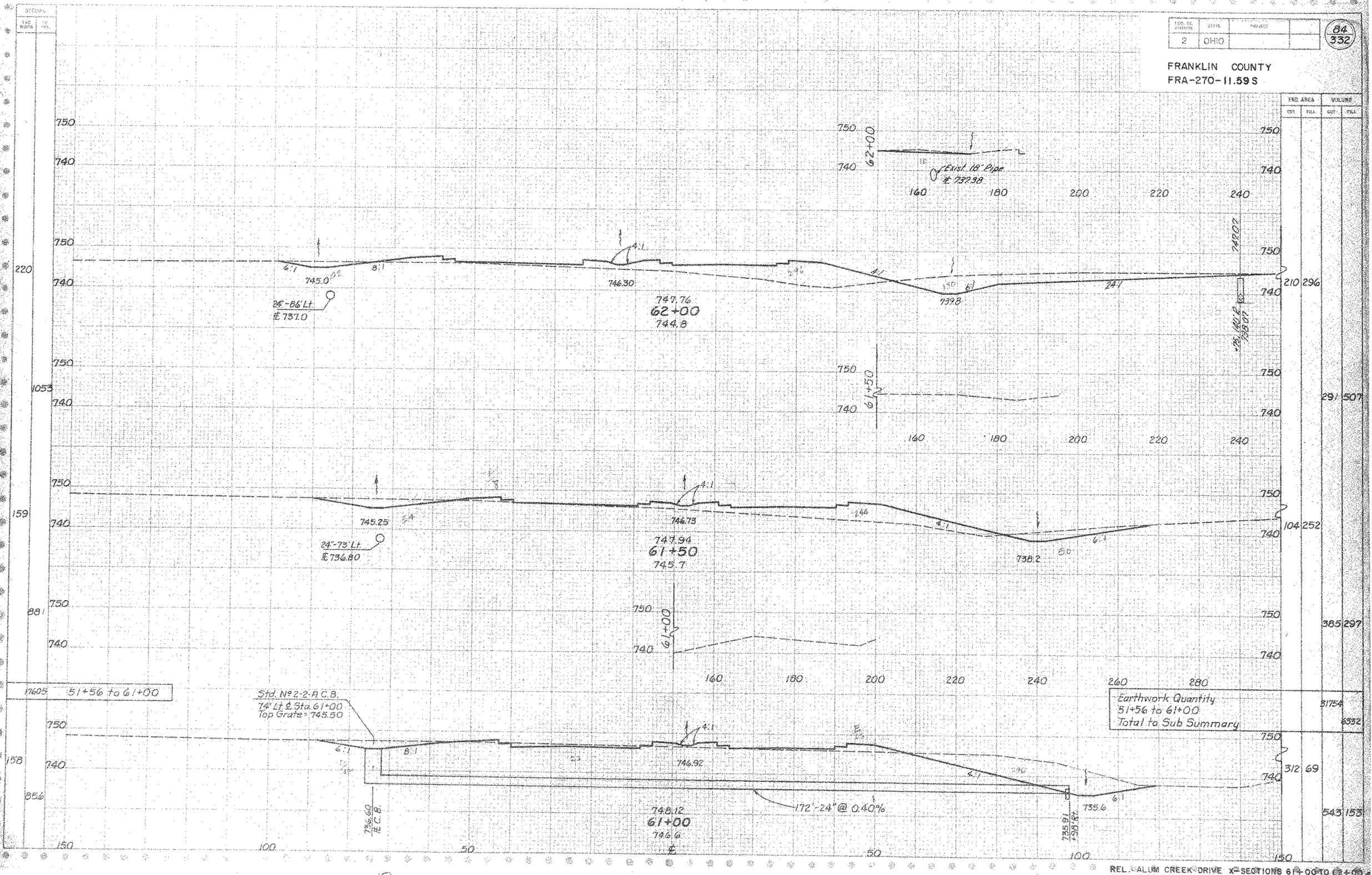
REL. ALUM CREEK DRIVE X-SECTIONS 58+50 TO 60+50

SEC. NO. OF SHEETS	STATE	PROJECT	
2	OHIO		

84
332

FRANKLIN COUNTY
FRA-270-11.59 S

SECTIONS	AREA CUT	AREA FILL	VOLUME CUT	VOLUME FILL
51+56 to 61+00	1760	856	31754	6332
61+00 to 62+00	1053	881	12969	7297
Total to Sub Summary			44723	13629



STATE	SHEET	PROJECT	
2	OHIO		

85
332

FRANKLIN COUNTY
FRA-270-11.59S

	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
64+50	200	1056	290	3
64+00	180	2139	252	15
63+00	205	2361	192	227
			822	448
			744	969
			502	17

64+50: 746.91; 747.6
64+00: 747.04; 746.5
63+00: 747.40; 744.5

Std. No. 2-2-A C.B.
82' Lt. & Sta. 64+00
Top Grate = 744.00
℄ Window = 743.50

Std. No. 2-2-B C.B.
14' Lt. & Sta. 64+00
Top Grate = 744.80

24" ℄ 738.20
24" ℄ 737.50
737.79 ℄ C.B.
742.59 ℄ C.B.
68'-15" @ 0.40%
Ex. 15" Pipe ℄ 738.94
Ex. 18" Pipe ℄ 738.22
℄ Section (Forward)
℄ Section (Back)

REL. ALUM CREEK DRIVE X-SECTIONS 63+00 TO 64+50

SHEET NO.	STATE	PROJECT	
2	OHIO		

86/332

FRANKLIN COUNTY
FRA-270-11.59S

SEEDING
EXC. W/DITCH | W/DITCH

Limit of Section

750 / 740

742.0 +13 Lt.
739.81

24:1 Var.

15" ℄ 739.80

748.16 | 748.26 | 748.65 | 748.52

748.55

+34-6 Lt. 743.33

748.18
68+00
749.0

+88-15' Lt.
742.10

+66-11 Lt.
743.53

+02-13 Rt.
741.69

Limit of Section

750 / 740

35.1

Std. N° 2-2-A C.B.
90' Lt. ℄ Sta. 67+50
Top Grate = 742.2
℄ Window = 741.7

6:1 | 2:1 | 24:1 | 8:1

747.8

739.51
℄ C.B.

747.93
67+50
749.2

Limit of Section

748.51

747.0

6:1 | 2:1 | 24:1 | 8:1

747.2

743.0

24"
℄ 740.0

747.68
67+00
749.4

+66-95.5-37.5 Rt.
741.37

746.95

+30-37.5 Rt.
740.49

6:1 | 6:1

744.1

747.10

24"
℄ 739.2

747.18
66+00
748.1

745.5

4:1 | 4:1

746.36

0.65%

6:1 | 6:1

744.52

746.7

24"
℄ 738.60

746.98
65+50
748.1

745.0

4:1 | 4:1

746.02

138	769	139	719	120	1472	145	864	166	2033

END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
670	12		
		1233	11
662	0		
		1144	0
574	0		
		781	0
388	0		
		711	4
380	4		
		1241	15

150 100 50 ℄ 50 100 150

REL. ALUM CREEK DRIVE X-SECTIONS 65+50 TO 68+00

FED. AID DIVISION	STATE	PROJECT	
2	OHIO		

87/332

FRANKLIN COUNTY
FRA-270-11.59S

	SEEDING CUT WIDTH	SEEDING FILL WIDTH
101		
581		
108		
578		
100		
542		
995		
4193		
95		
1294		

749.00 59' Lt
Res. Drive @ 70+65
748.80 +65
-0.5%
746.5
15" E 741.5
749.44 70+50 749.5
747.01
746.78
745.5
746.0
+92-16Lt 742.78
+92-41Rt 743.30
749.19 70+00 749.4
Std. N°2-2-B C.B. 42' Lt. & Sta. 69+50 Top Grate = 744.2
746.25
748.94 69+50 749.4
SE Corner 1 Story Frame House
Exist. 6" Tile 748.33
744.40
15" E 740.10
748.68 69+00 748.5
746.50
749.06 749.09 748.52 748.37 747.04 746.27 746.89 746.19 746.71
PVI 19+50 25' VC Elev. 745.55
PVI 18+90 25' VC Elev. 749.15
-6.00%
Ex. 6" Water Line
Ex. 2-608 Line 2
Ex. 8" Water Line
744.68
15" E 740.10
Edge Pavement Alum Creek Drive
& Water Valve
PROFILE & ℄ of HOWARD ROAD
Std. N°2-2-A C.B. 20' Lt. & Sta. 18+36 Top Grate = 747.4 ℄ Window = 746.9
48"-12" @ 0.5%
740.05 ℄ C.B.
18+50
Std. N°2-2-A C.B. 20' Rt. & Sta. 18+60 Top Grate = 748.0 ℄ Window = 747.5
65"-12" @ 0.3%
739.81 ℄ C.B.
18+00
HOWARD ROAD X-SECTIONS
℄ Relocated Alum Cr. Drive
Limit of Section
744.5
745.89 19+50
747.0
748.52 19+00
Var.

℄ Temporary Roadway

Seeding Quantity
Howard Road

Seeding Quantity
Alum Creek Drive Turnout
From X-Sections
Sheet # 131

Earthwork Quantity
Howard Road

Earthwork Quantity
Alum Creek Drive Turnout
From X-Sections
Sheet # 131

Earthwork Quantity
18+00 to 19+50
Cut 974 C.Y.
Fill 0 C.Y.
Seeding 995 S.Y.

	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
750				
	112	40		
740				
			287	69
750				
	198	34		
740				
			381	44
750				
	214	14		
740			494	17
			974	0
750				
	320	4	303	145
740			1833	30

REL. ALUM CREEK DRIVE X-SECTIONS 69+00 TO 70+50

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

88/332

FRANKLIN COUNTY
FRA-270-11.59 S

24881 61+00 to 74+00

LINDSAY ROAD X-SECTIONS

Seeding 364 S.Y.
Cut 35 C.Y.
Fill 0 C.Y.

Res. Drive @ 19+53 — 746.50 +.53 — Seeding 1.0% — 35 — 8:1 — 8:1 — 6:1 — 6:1 — Cut 11 — Vol. Cut

19+50 — 181 S.Y. — 0 — 17

19+00 — 133 S.Y. — 147 — 30 — 8:1 — 8:1 — 4:1 — 4:1 — 744.6 — 9 — 55 — 13

18+50 — 50 S.Y. — 342 — 18 — 8:1 — 4:1 — 744.8 — 5 — 70 — 5

18+00 — 0 — 0

30 20 10 ℄ 10 20 30

364 Seeding Quantity for Lindsay Road

878

1056

102

564

PROFILE ℄ OF LINDSAY ROAD

Ex. 6" Water Line — Approx. Elev. of Water Line

747.9

74+00 750.2 / 749.95

746.0 — 746.9

73+50 749.85 / 749.70

Std. N° 2-2-8 C.B. 20' Lt. ℄ Sta. 73+00 Top Grate = 744.5

℄ Temporary Roadway

4:1 — 8.5:1 — 4:1 — 4:1 — 744.78 — 1.60% — 2%

742.42 E.C.B.

73+00 749.80 / 749.6

746.14 — 744.36 — 744.79 — 741.90 — 742.69 — 746.82 — 749.25 — 0.24%

25' V.C.

P.V.I. 19+12.5 Elev. 746.25 — +4.40%

25' V.C. — E. Alum Creek Drive — 745.87

-92.15' Lt. 744.28

72+53 PARTIAL SECTION 749.5

℄

746.5 — 745.74

72+00 749.69 / 749.5

Std. N° 2-2-8 C.B. 42' Lt. ℄ Sta. 70+93 Top Grate = 745.7

℄ Temporary Pavement

0.24% — Std. N° 2-2-8 C.B. 57' Rt. ℄ Sta. 70+93 Top Grate = 745.5

100' - 15" @ 0.40% 70+93

15" - 42' Lt. E 741.48

741.48 E.C.B. — 741.88 E.C.B.

71+00 749.59 / 749.5

150 100 50 ℄ 50 100 150

Seeding Quantity for Lindsay Road

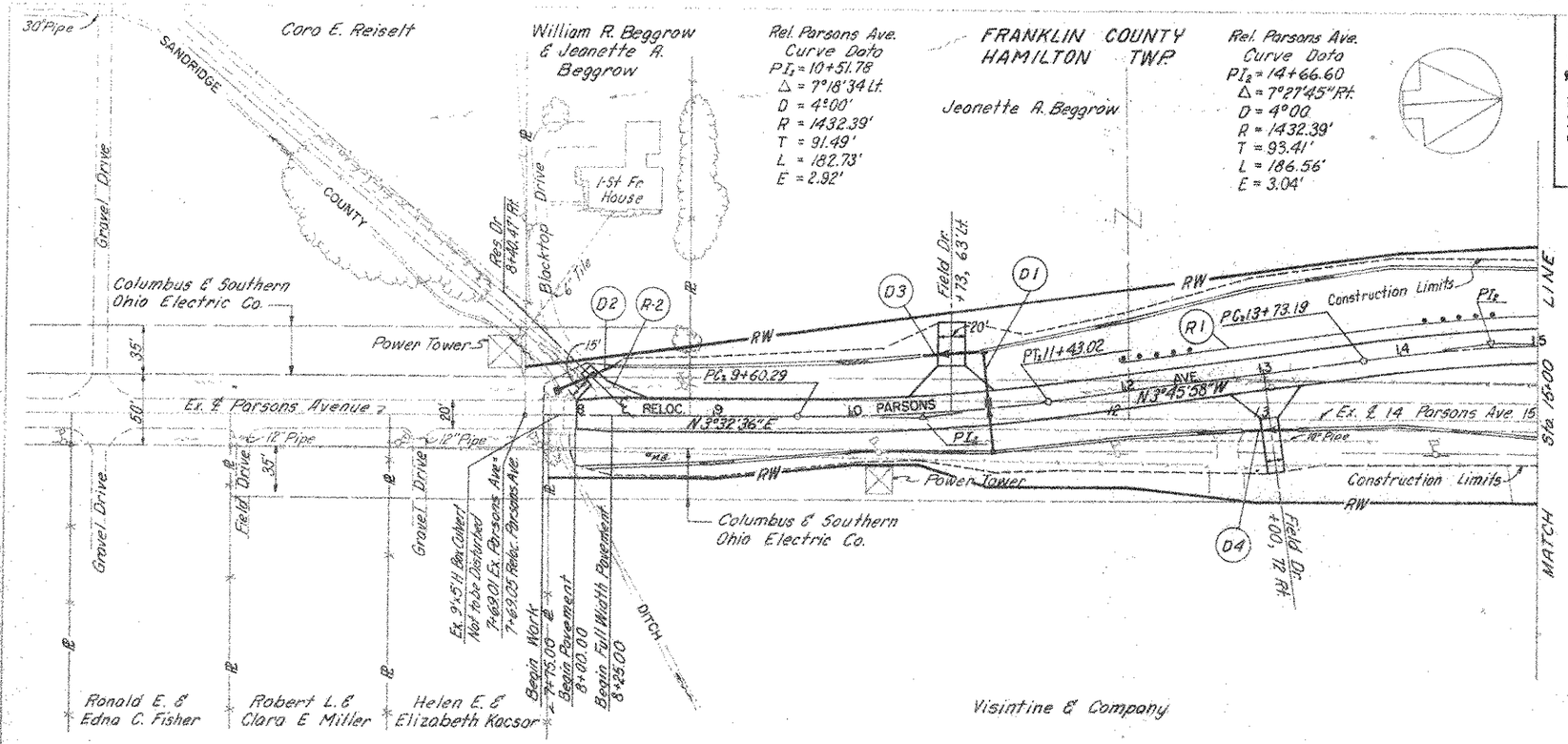
364	
878	
1056	
102	
564	

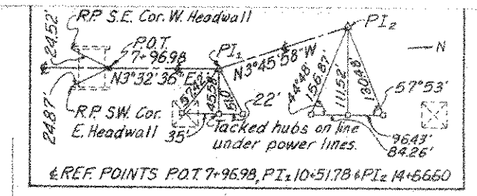
Earthwork Quantity for Lindsay Road

304	111
35	0
70	54
315	207
100	58
196	91

	END AREA CUT	END AREA FILL	VOLUMES CUT	VOLUMES FILL
Earthwork Quantity 61+00 to 74+00 Total to Sub Summary			4161	3986
74+00	0	0		
			48	0
	52	0		
			185	6
	94	6		

REL. ALUM CREEK DRIVE X-SECTIONS 71+00 TO 74+00





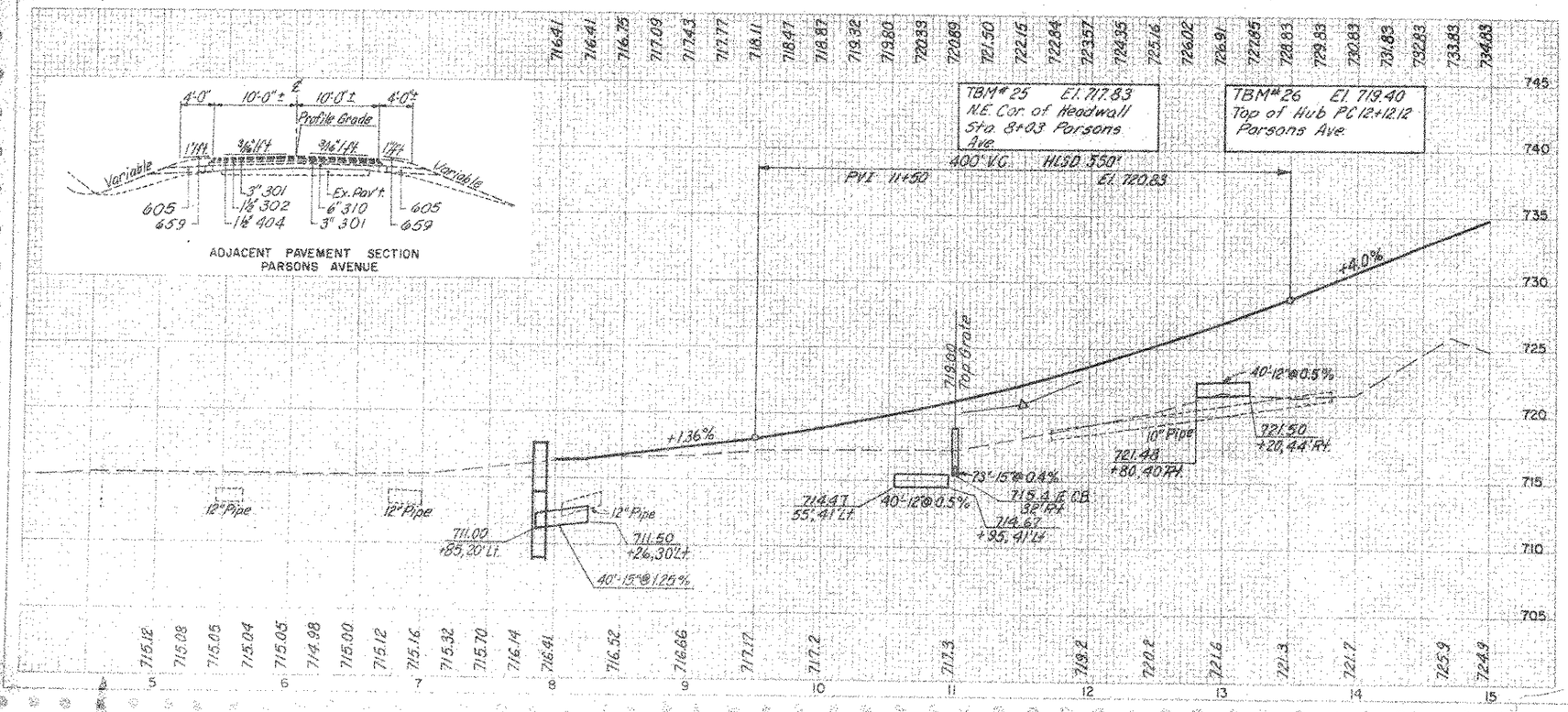
1	STATE	PROJECT	
2	OHIO		

89
332

FRANKLIN COUNTY
FRA-270-11.59 S

PAVEMENT		304 Aggregate Base	404 Asphalt Concrete (85-100)	408 Bituminous Prime Coat			
Location		CY	CY	Gal			
8+25	Lt.	9	4	27			
10+73	Lt.	26	4	31			
13+00	Rt.	19	4	28			
26+19	Rt.	20	4	28			
26+25	Lt.	35	4	28			
27+44	Rt.	16	4	28			
28+06	Rt.	13	5	98			
31+06.5	Lt.	13	4	28			
32+01	Rt.	10	4	28			
Total		161	37	264			

ADJACENT PAVEMENT SECTION
PARSONS AVENUE



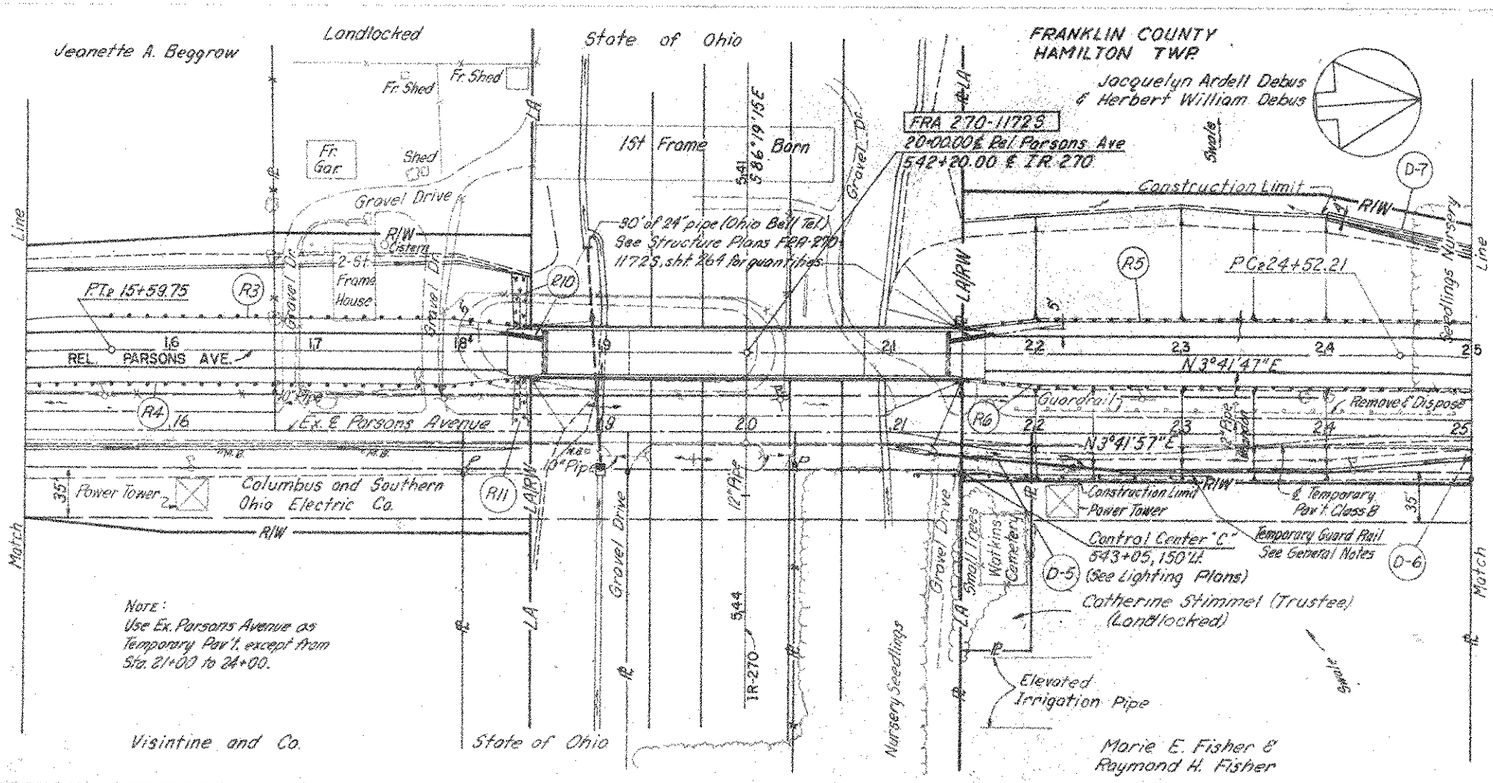
PAVEMENT ELEVATIONS REL. PARSONS AVE.					
Lt. Edge	Station	Rt. Edge	Lt. Edge	Station	Rt. Edge
716.25	8+00	716.25	728.02	+25	727.68
716.22	+25	716.27	729.11	+50	728.55
716.56	+50	716.67	730.23	+75	729.43
716.90	+75	717.07	731.36	14+00	730.30
717.24	9+00	717.52	732.48	+25	731.18
717.55	+25	717.99	733.61	+50	732.05
717.77	+50	718.45	734.62	+75	733.04
718.00	+75	718.94	735.52	15+00	734.14
718.28	10+00	719.46	736.40	+25	735.26
718.60	+25	720.04	737.27	+50	736.39
719.01	+50	720.59	738.13	+75	737.49
719.60	+75	721.06	738.94	16+00	738.56
720.28	11+00	721.50	739.72	+25	739.46
721.02	+25	721.98	740.47	+50	740.31
721.79	+50	722.51	741.23	+75	741.13
722.61	+75	723.07	741.95	17+00	741.91
723.42	12+00	723.72	742.64	+25	742.64
724.27	+25	724.43	743.34	+50	743.34
725.14	+50	725.18	743.99	+75	743.99
726.06	+75	725.98	744.60	18+00	744.60
727.02	13+00	726.80			

TEMPORARY PAVEMENT	615 Class B
LOCATION	S.Y.
21+00 to 24+50 Rt.	248
TOTAL	248

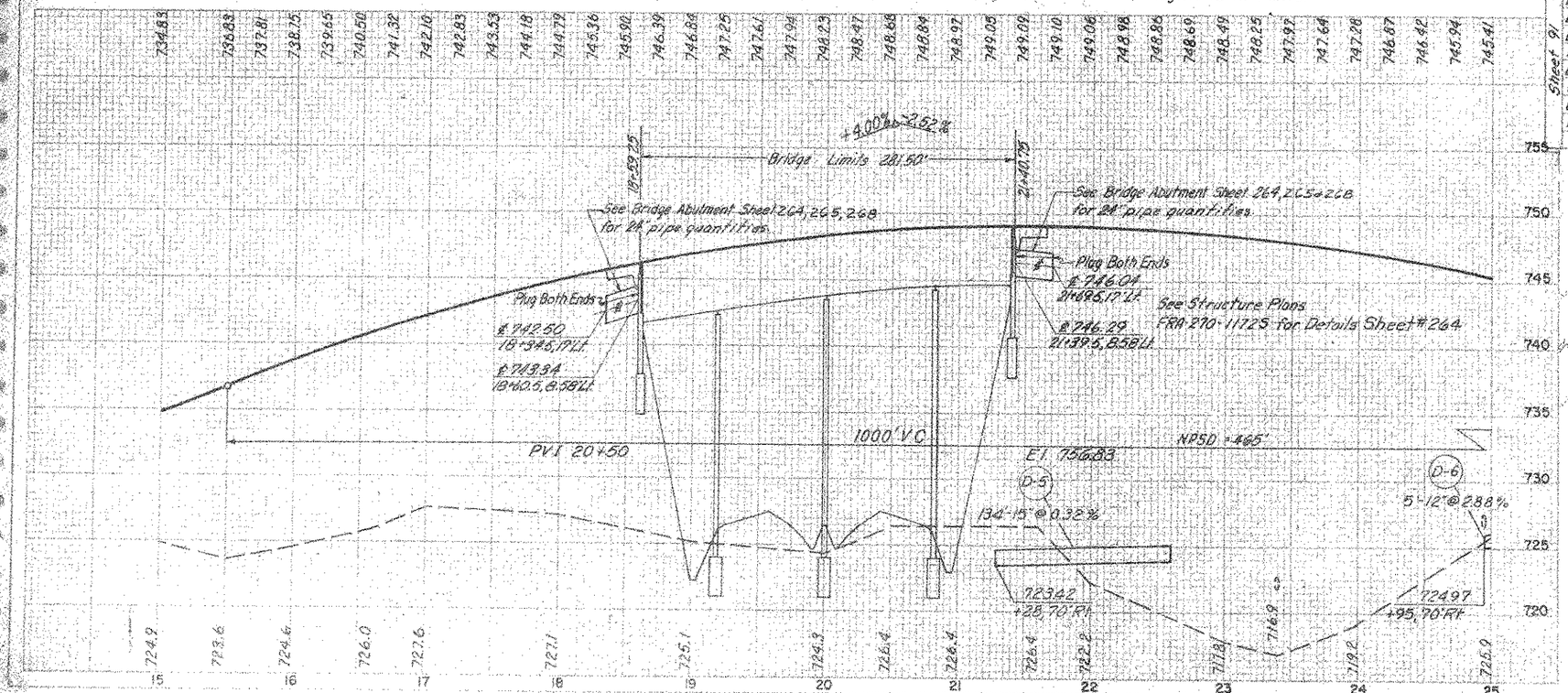
I 270 UNDER RELOC. PARSONS AVE
PROPOSED STRUCTURE FRA-270-1172 S
TYPE: 4 Span cont. steel beam with reinforced conc. deck and substructure
SPAN: 57'-0", 81'-6", 81'-6", 57'-0" ℄ Brgs
LOAD FREQUENCY RATING: CF = 130(57)
ROADWAY: 30'-0" ℄ of 2'-0" safety curbs
SKEW: None
WEARING SURFACE: 1" Monolithic conc.
APPROACH SLABS: Special (25' long)
ALIGNMENT: Tangent
SUPERELEVATION: None

SHEET	DIST.	SHEET	TOTAL SHEETS
2	OHIO		90 / 332

FRANKLIN COUNTY
FRA-270-11.59S



DRAINAGE		601	603	602	603			604	Special			660	601
		Dumped Rock	15" Conduit Type "B" Class "B"	Concrete Masonry	12" Conduit Type D	15" Conduit Type D	6" Conduit Type E	Standard No. 322.8 Catch Basin	12" Special Branch Type D	12" Special Bend Type D	6" Special Bend Pipe Underdrain	Sodding	Crushed Aggregate
Code	Location		C.Y.	L.F.	L.F.	L.F.	Ea.	Ea.	Ea.	Ea.	Ea.	SY	SY
D-1	11+88 Lt to Rt		73	26			1						1
D-2	7+85 to 8+26 Lt.				40								
D-3	10+55 to 10+95 Lt	2			40								
D-4	12+80 to 13+20 Rt				40								
D-5	21+28 to 22+60 Rt				134								
D-6	24+95 to 25+00 Rt.				5								
D-7	24+00 to 26+00 Lt											47	
D-8	27+60, 50' Rt					8			1	1			
D-11	25+00 to 27+00 Rt.				188			1					
D-12	25+90 to 26+52 Lt.				62								
D-13	27+00 to 28+35 Rt.				135			1					
D-14	28+35 to 30+15 Rt.				190								
D-15	30+87 to 31+26 Lt.				39								
D-16	29+60, 45' Rt.									1	2		
D-17	29+70, 45' Rt.					8				1			
D-18	25+00, to 25+50											22	
	Total	2	73	26	659	214	16	1	2			69	1



ROADWAY		606 Guard Rail Type 4	202 Pipe Removed 24" & Under	606 Guard Posts	660 Sodding for Special Berm Slope Protection
Location		LF	LF	Ea.	SY
R-1	11+98 to 14+98 Lt.	300			
R-2	8+06 to 8+36 Lt.		30		
R-3	14+98 to 18+48 Lt.	350			
R-4	14+98 to 18+48 Rt.	350			
R-5	21+54 to 25+04 Lt.	350			
R-6	21+54 to 25+04 Rt.	350			
R-7	25+04 to 26+04 Lt.	100		10	
R-8	25+04 to 25+91.5 Lt.	87.5			
R-9	26+40 Lt.			12	
R-10	18+40 Lt.				40
R-11	18+40 Rt.				50
R-12					
R-13					
R-14					
Total		1887.5	30	22	90

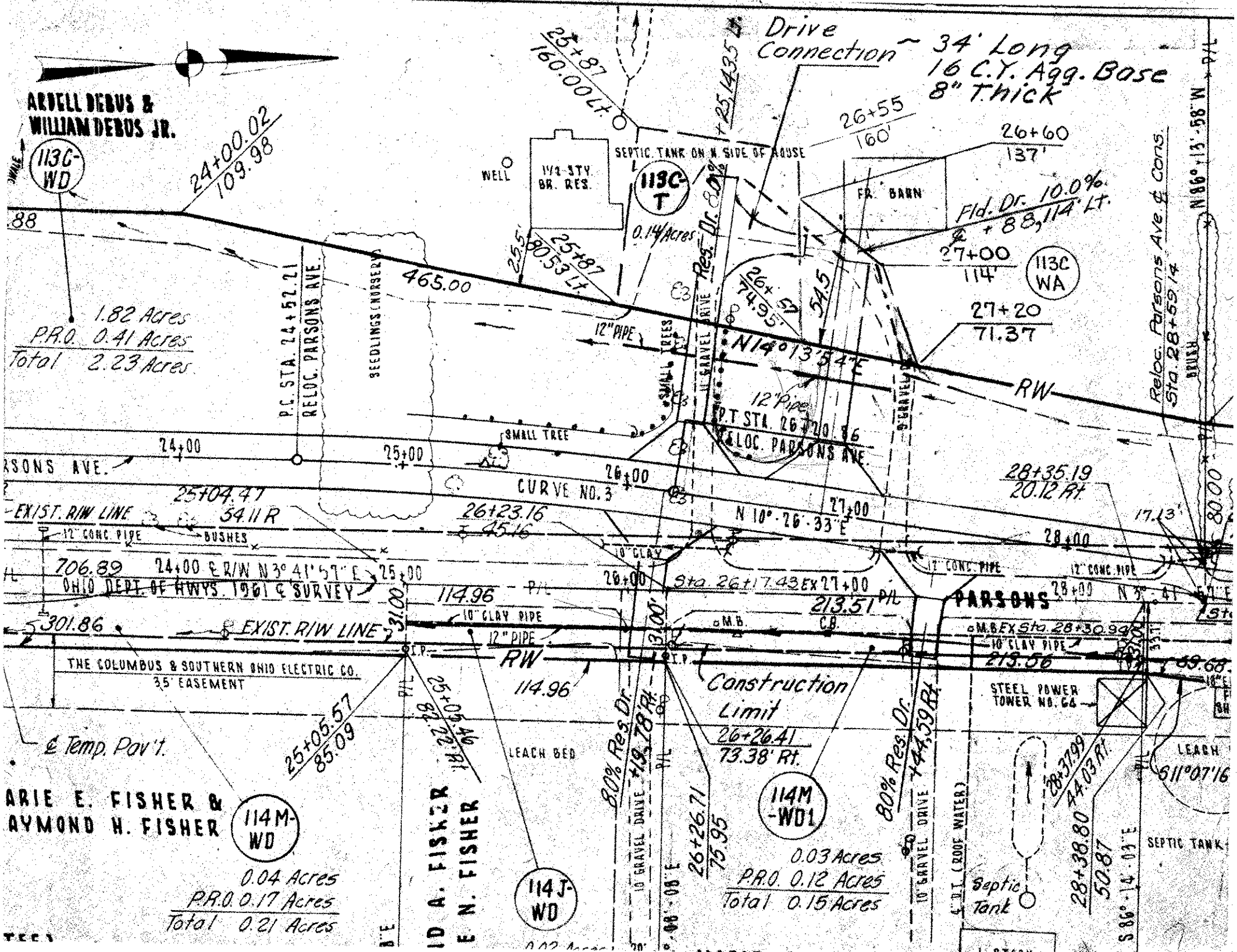
FRA-270-11.59 S
CHANGE ORDER NO. ....
DATE .....

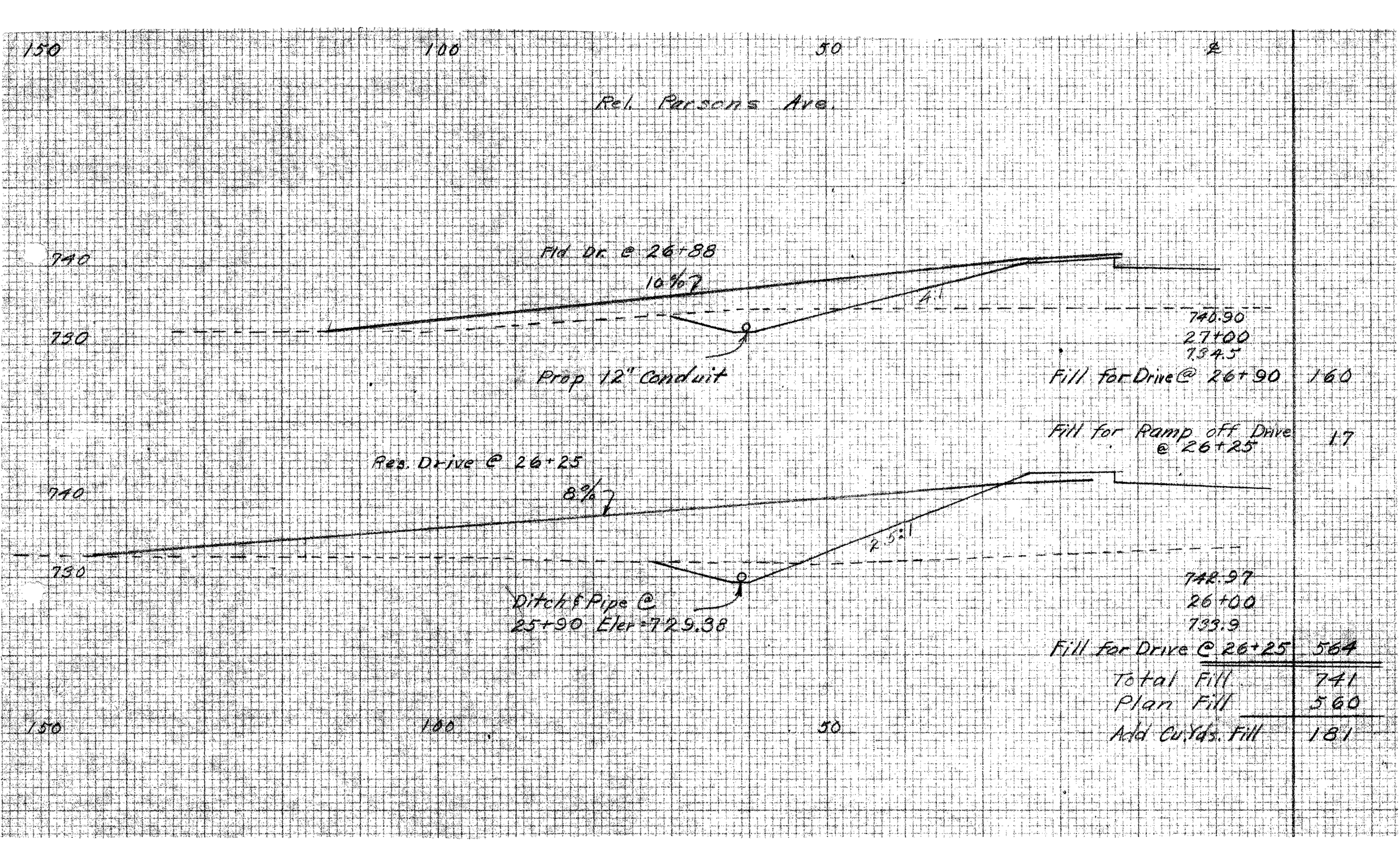
WORK REQUIRED:

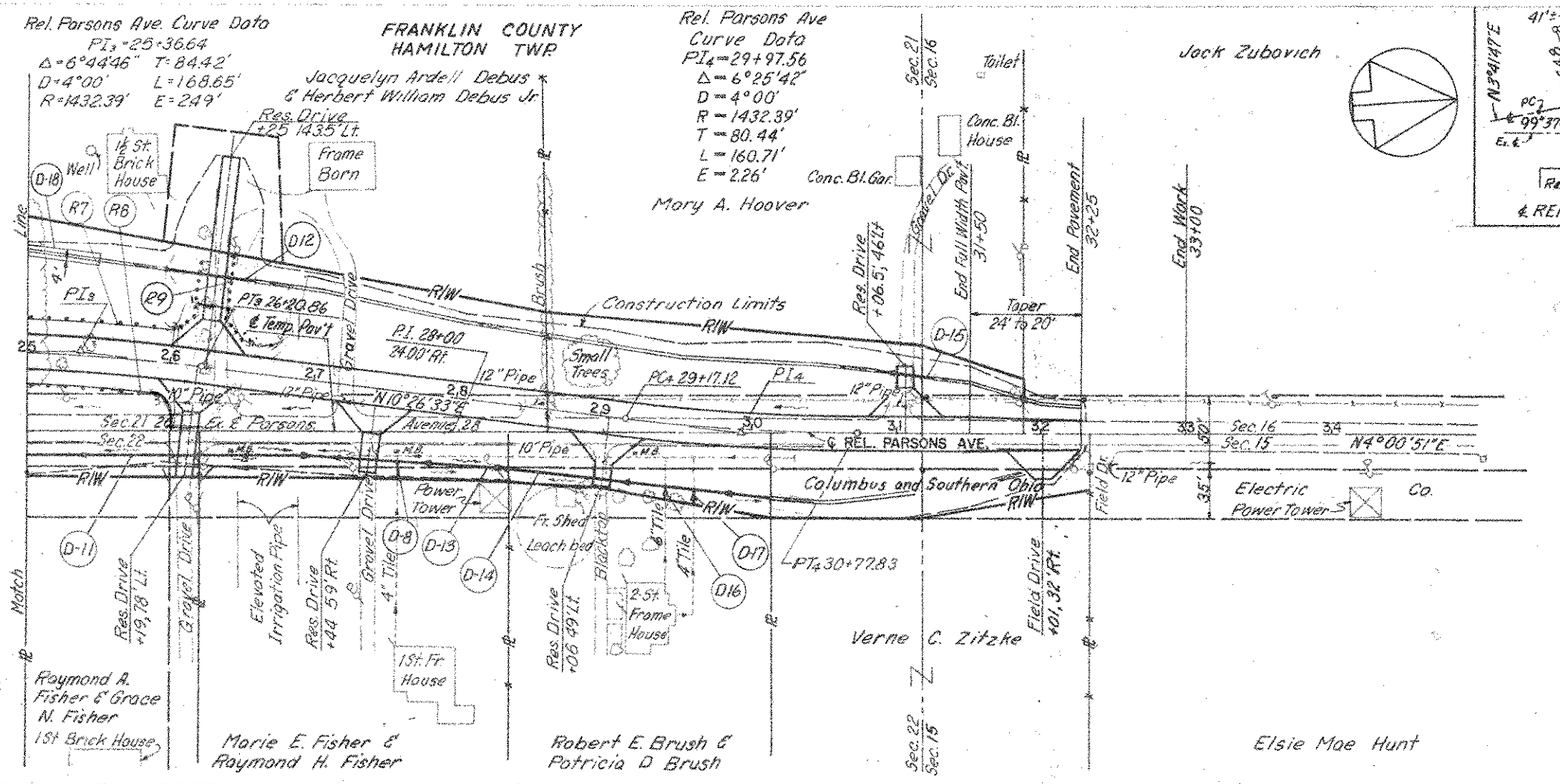
Change Res. Drive Located Left of Sta. 26+25 from 10.0% Grade to 8.0%. Add Drive Connection as shown. Construct Field Drive, Left of Sta. 26+88, on a 10.0% Grade.

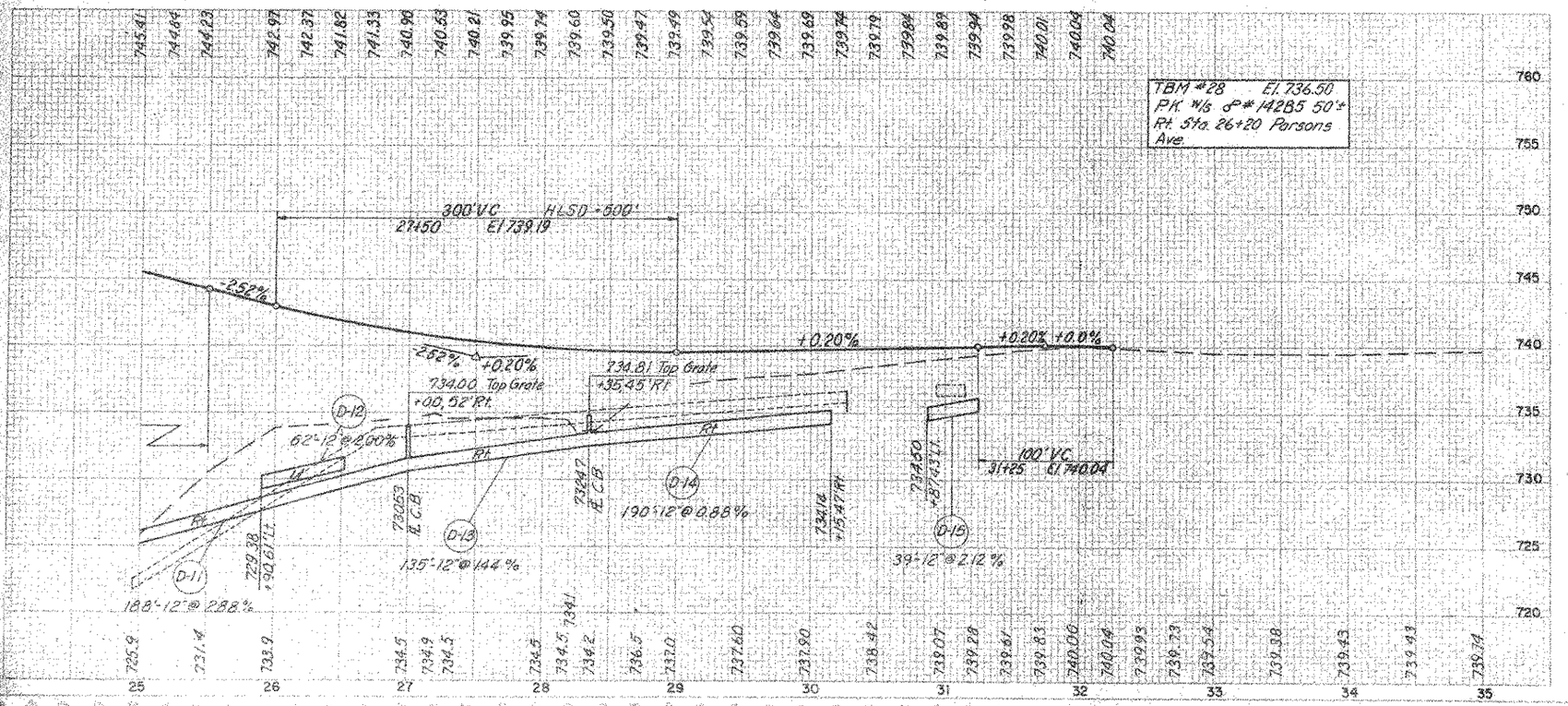
ESTIMATED QUANTITIES:

Add	203	Embankment	181 Cu. Yds.
Add	603	12" Conduit, Type "D"	44 Lin. Ft.
Add	304	Aggregate Base	34 Cu Yds.




150
100
50
Rel. Persons Ave.
740
730
Fld Dr. @ 26+88
10%?
4:1
740.90
27+00
734.5
Prop 12" Conduit
Fill for Drive @ 26+90
160
Fill for Ramp off Drive
@ 26+25
17
Res. Drive @ 26+25
8%?
740
730
2.5:1
742.97
26+00
733.9
Ditch & Pipe @
25+90 Elev=729.38
Fill for Drive @ 26+25 564
Total Fill 741
Plan Fill 560
Add Cu.Yds. Fill 181
150
100
50





PAVEMENT ELEVATIONS REL. PARSONS AVE.					
Lt. Edge	Station	Rt. Edge	Lt. Edge	Station	Rt. Edge
748.30	23+00	748.30	739.69	28+00	739.79
748.15	+25	748.06	739.51	+25	739.69
747.95	+50	747.78	739.36	+50	739.64
747.71	+75	747.45	739.28	+75	739.66
747.43	24+00	747.09	739.15	29+00	739.83
747.14	+25	746.60	739.05	+25	740.03
746.82	+50	746.02	738.95	+50	740.23
746.47	+75	745.41	738.85	+75	740.43
746.07	25+00	744.75	738.90	30+00	740.48
745.63	+25	744.05	738.95	+25	740.53
745.02	+50	743.44	739.15	+50	740.43
744.31	+75	742.89	739.35	+75	740.33
743.55	26+00	742.39	739.55	31+00	740.23
742.82	+25	741.92	739.75	+25	740.13
742.14	+50	741.50	739.79	+50	740.07
741.52	+75	741.14	739.82	+75	740.01
741.04	27+00	740.76	739.85	32+00	739.95
740.62	+25	740.44	739.85	+25	739.85
740.26	+50	740.16			
739.95	+75	739.95			

FED. RD. DIV. NO.	STATE	PROJECT	
2	OHIO		

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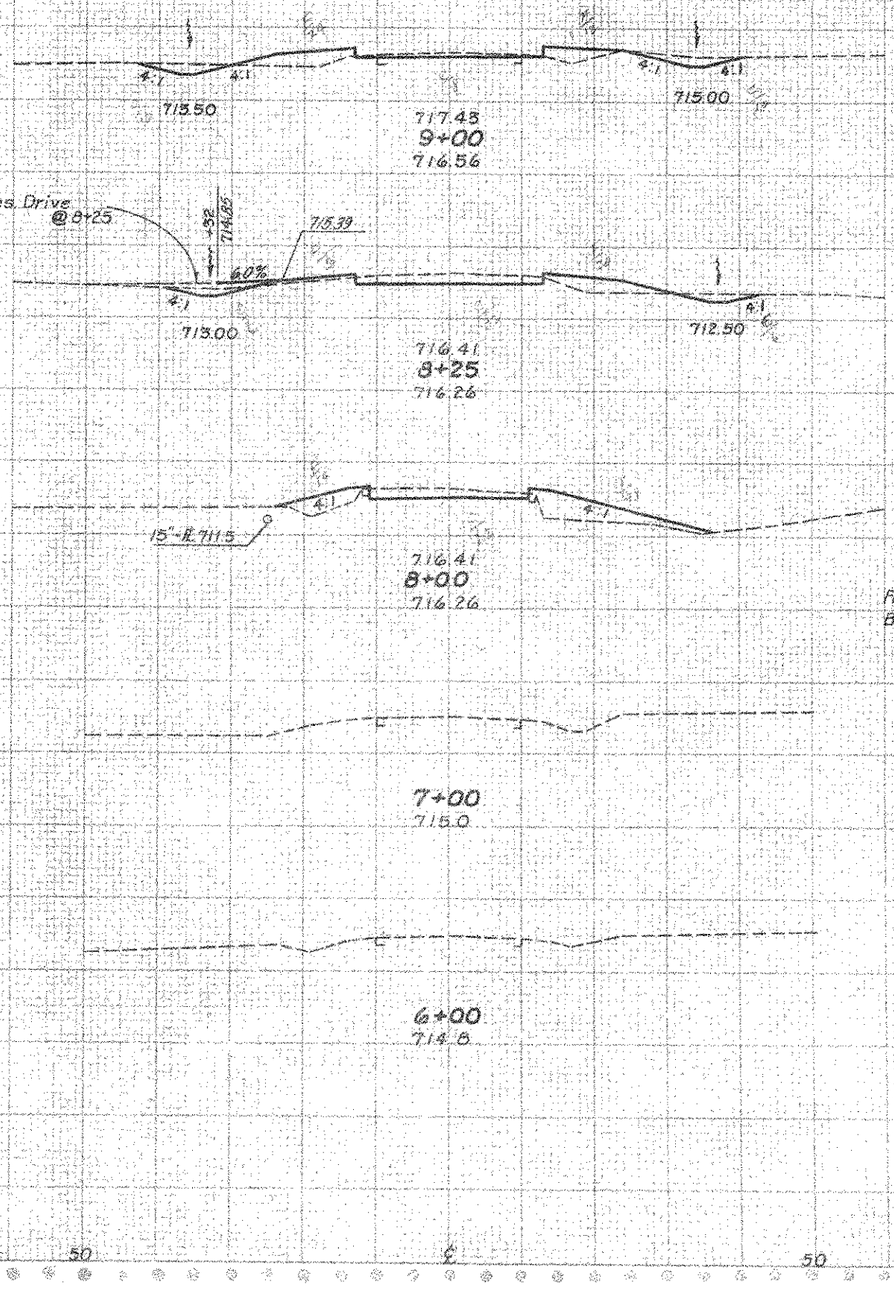
FRANKLIN COUNTY
FRA-270-11.59 S



END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
28	36		
		100	85
			8
44	25		
		31	40
22	62		
		4	11
0	0		

Fill for Drive @ 8+25

For Earthwork Quantities
Begin Work @ 7+90

REL. PARSONS AVE X-SECTIONS 6+00 TO 9+00

FED. RD. DIVISION	STATE	PROJECT	
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	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
14+00	32	630		
			96	1607
13+00	20	238		41
			141	689
12+00	56	134		
			174	411
11+00	38	88		
			126	267
10+75				19
10+25	30	56		
			107	170

SECOND

CUT	FILL
143	1406
110	
1222	
110	1111
90	
878	
68	783

740 730 720 710

150 100 50 0 50 100 150

718.00 — 4:1 — 3:1 — 4:1 — 730.83 14+00 721.7 — 4:1 — 722.50 — 4:1 — 24:1

716.30 — 3.5:1 — 4:1 — 20' V.C. PVI 725.00 — 20' V.C. PVI 727.00 — Field Drive +00 — -1.0% — -6.0% — 4:1 — 15:1 — 3:1 +8.0% — 12" — 721.00

Fill for Drive @ 13+00

716.00 — 4:1 — 4:1 — 726.91 13+00 723.1 — 4:1 — 720.00 — 3:1

723.57 12+00 719.6

Std. N°2-2-8 C.B. 32' Rt. & Sta. 11+00 ℄ Top Grate = 719.00

715.00 — 4:1 — 4:1 — 3:1 — 715.1 — 73'-15" @ 0.4% — 720.89 11+00 719.30 — 715.40 ℄ C.B.

Res. Drive @ 10+75 — 8.0% — 15" — 720.32 — 720.9 — 719.9 — 4:1 — N.W. Corner — Tower — N.E. Corner — 719.6

10+73 PARTIAL SECTIONS 10+25 — 719.52 — 718.05

Fill for Drive 10+73

Note: Section 107.17 of the O.D.H. Specifications shall be reviewed by the Contractor before excavation proceeds around any of the Hi. Tension Towers.

714.0 — 4:1 — 4:1 — 718.87 10+00 717.74 — 718.4 — 3:1

℄

R.F.L. PARSONS AVE. X-SECTIONS 10+00 TO 14+00

FED. ROAD DIVISION	STATE	PROJECT	
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FRANKLIN COUNTY
FRA-270-11.59S

SEEDING

CRD WIDTH	SQ. YDS.
140	1567
142	1089
142	493
144	1572
139	1567

END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
16	1254		
		93	4257
34	1045		
		92	2538
38	941		
		39	1115
30	1002		
		122	3230
36	742		
		126	2541

D8

24" +34.0
℄ 141.90

2:1 2:1 1.5:1 2:1 12:1 4:1 4:1

725.50 728.06 726.0

1.28% 2.32%

744.79
18+00
727.1

2:1 1.5:1 4:1 4:1

724.22 725.74 726.5

742.10
17+00
727.6

12:1 4:1 1.5:1 12:1 4:1

723.40 724.00 726.1 726.9

739.85
16+31
725.2

Temporary Embankment for Duration of Temporary Pavement

NW Corner Tower NE Corner

Note: Section 107.17 of the O.D.H. Specifications shall be reviewed by the Contractor before excavation proceeds around any of the Hi. Tension Towers.

4:1 2:1 1.5:1 12:1

722.00 723.5

738.75
16+00
724.5

2:1 1.5:1 4:1 4:1

720.00 723.0

734.83
15+00
724.8

150 100 50 50 100 150

REL. PARSONS AVE. X-SECTIONS 15+00 TO 18+00

FED. ROAD DIVISION	STATE	PROJECT	
2	OHIO		

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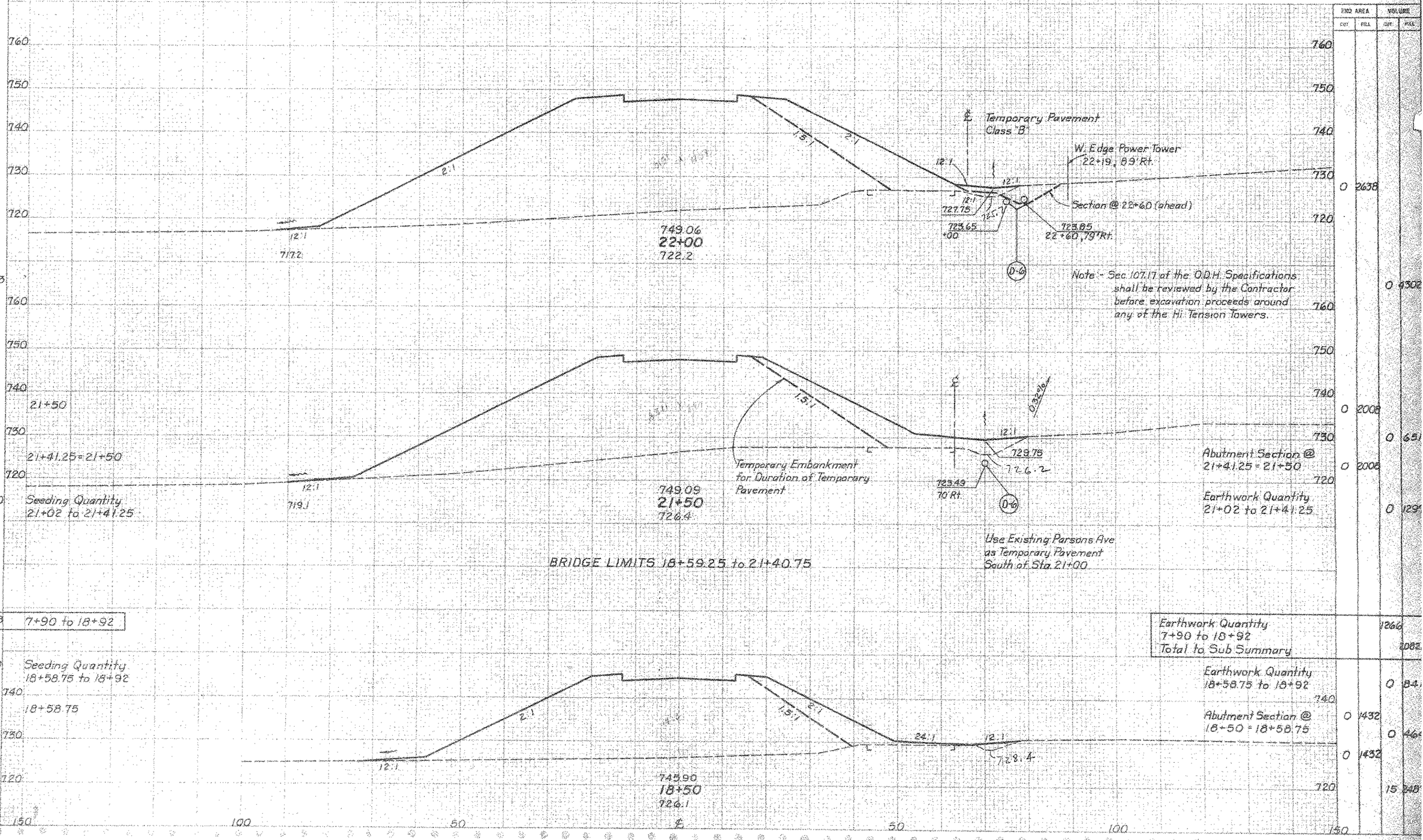
FRANKLIN COUNTY
FRA-270-11.59S

SEEDING

END AREA		VOLUME	
CUT	FILL	CUT	FILL



18628	7+90 to 18+92

Seeding Quantity
21+02 to 21+41.25

Seeding Quantity
18+58.75 to 18+92

REL. PARSONS AVE. X-SECTIONS 18+50 TO 22+00

FED. AID DIVISION	STATE	PROJECT	
2	OHIO		

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FRANKLIN COUNTY
FRA-270-11.59S

SECTIONS

SEND WIDTH	AREA
180	1000
	1014
	2011

END AREA		VOLUME	
CUT	FILL	CUT	FILL
0	2673		
0	2980	0	5234
3	5463		
3	2920		
6	0293		

718.08
9.00%
0.33%
2:1
747.28
24+00
719.2

Temporary Embankment for duration of Temporary Pavement
1.5:1
2:1
℄
727.0
4:1
4:1
12"R.C.P.
724.11
Plug
Ex. 12" R.C.P. 75' Rt.
23+40 Inv. 723.41
23+40, 32.5' Rt. ℄
Inv. 720.1
0.52%
714.79
747.97
23+50
716.9
0.32%

℄ Temporary Pavement Class "B"
Typical Section Temporary Pavement
1.5:1 Max. 4:1 Desirable
715.1
12:1
714.1
748.49
23+00
717.8
724.6
728.97

REL "PARSONS" AVE. X-SECTIONS 23+00 TO 24+00

FED. RD. DIVISION	STATE	PROJECT	
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FRANKLIN COUNTY
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BEARING		
DIST. WIDTH	DIST. FILL	
95	1072	
100	1211	
118	233	
	1422	
138	792	
147	855	
160	1889	

END AREA		VOLUME	
CUT	FILL	CUT	FILL
			15
38	140		
		96	770
14	276		
			17
		156	1211
70	378		
			560
		189	1918
32	656		
		49	1542
21	1010		
		70	2460
54	1654		
		100	3014

739.8 +06 Res. Drive @ 29+06
7.0%
0.24%
737.2 49' Rt
12:1
736.20
0.60%
739.49
29+00
737.0
Fill for Drive @ 29+06
Note - Sec. 107.17 of the O.D.H. Specifications shall be reviewed by the Contractor before excavation proceeds around any of the Hi. Tension Towers.
N.W. Corner Power Tower 28+44 - 52' Rt
Back Slope @ 28+35 = 7:1
Std. N°2-2-8 C.B.
45' Rt & Sta. 28+35
Top Grate = 734.81
+35 - 734.81
0.60%
4:1
12:1
734.93
732.47 E.C.B.
733.0
731.94
739.74
28+00
734.5
739.8 +44 Res. Drive @ 27+44
8.0%
735.6 59' Rt
Fill for Drive @ 27+44
Std. N°2-2-8 C.B.
52' Rt & Sta. 27+00
Top Grate = 734.00
0.36%
1.5:1
730.53 E.C.B.
731.58
740.90
27+00
734.5
Fill for Drive @ 26+25
48' V.C.
PVI 742.00 - 40' Lt
2.00%
742.4
742.00 +19 Res. Drive @ 26+19
8.0%
736.2 78' Rt
Fill for Drive @ 26+19
Add for Drive @ 26+25
Res. Drive @ 26+25
25' V.C.
PVI 732.9
10.0%
See Detail
0'-Lt.-40'
732.9
143.5'
Ditch & Pipe @ 25+90 Elev. = 729.36
727
733.75
742.97
26+00
733.9
Residence
Variable
2.00%
9.00%
728.58
744.23
25+50
751.4
730.25
Use Existing Parsons Ave as Temporary Pavement North of Sta. 24+50
℄ Temporary Pavement
Temporary Embankment for Duration of Temporary Pavement
724.08
724.98
End Ditch, Begin Pipe ℄ Yard Section @ 24+95
745.41
25+00
725.9

REL. PARSONS AVE X-SECTIONS @ 25+00 TO 29+00

FED. RD. DIV. NO.	STATE	PROJECT	
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FRANKLIN COUNTY
FRA-270-11.59S

21+02 to 33+00

END WORK
33+00

740.04
32+25
740.0
737.55

739.95
Field Drive @ 32+01
8.0%

740.04
32+00
740.0
737.34

End Ditch Section
@ 31+80 Elev. 737.05

735.84
736.52

739.93
31+50
739.6

Profile Res. Drive
739.00
46' Lt
Res. Drive @ 31+06.5
740.5
+06.5
4.5%

734.9
735.9
736.7
737.8
739.1
735.64

Ex. Drive Profile Lt. 31+04

739.89
31+00
739.1

732.72
734.62

739.79
30+50
738.4

732.66
737.9

739.69
30+00
737.9

732.48
737.0

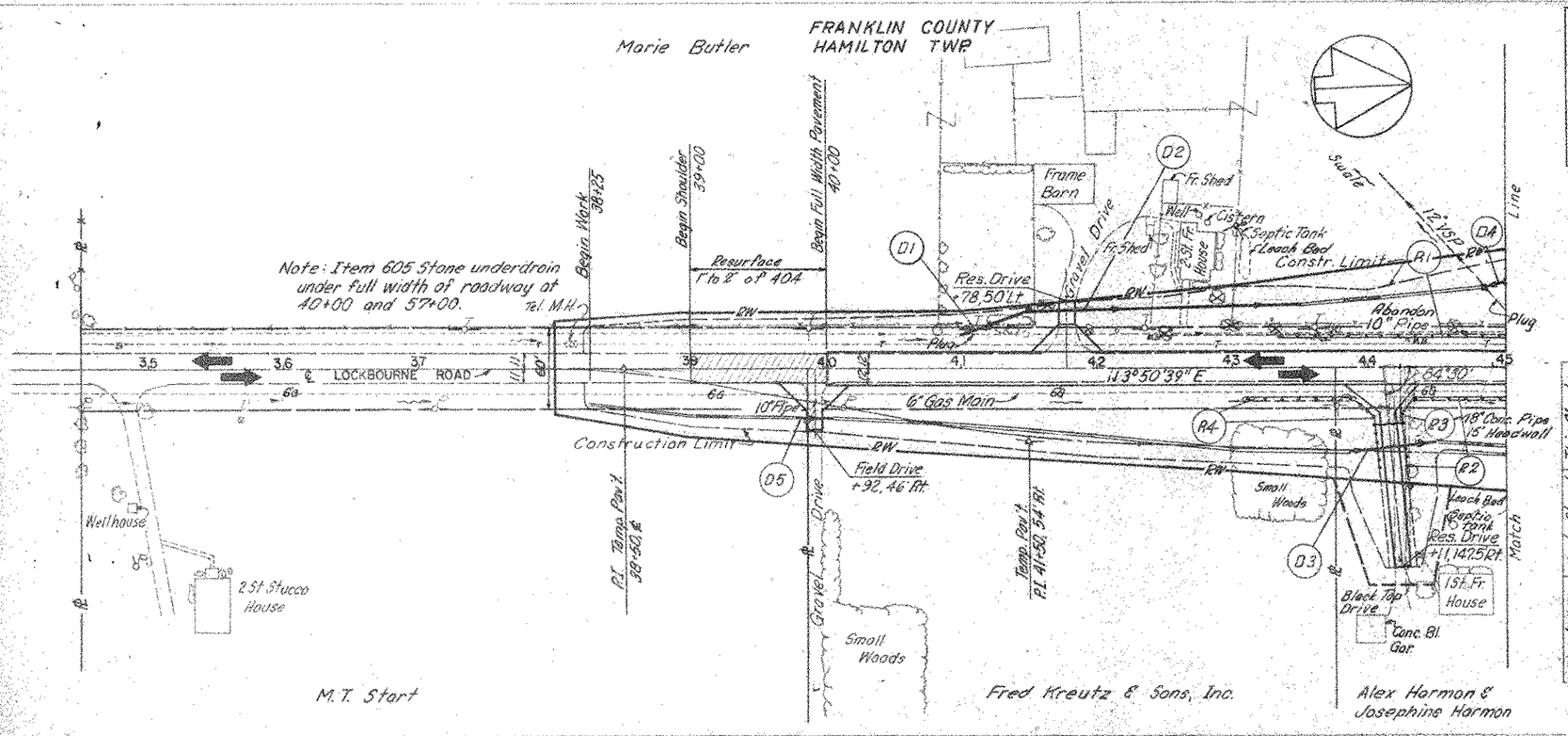
739.59
29+50
737.6

Earthwork Quantity
21+02 to 33+00
Total to Sub Summary

Fill for Drive
@ 31+06.5

	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
			1386	4496
32+25	0	0	0	2
32+00	0	3	80	34
	86	34	175	67
				28
	103	38	183	122
	95	94	142	198
	58	120	78	231
	26	130	59	250

REV. PARSONS AVE X-SECTIONS 29+50 TO 33+00



FED. ROAD DESIGNATION	STATE	PROJECT		
2	OHIO			

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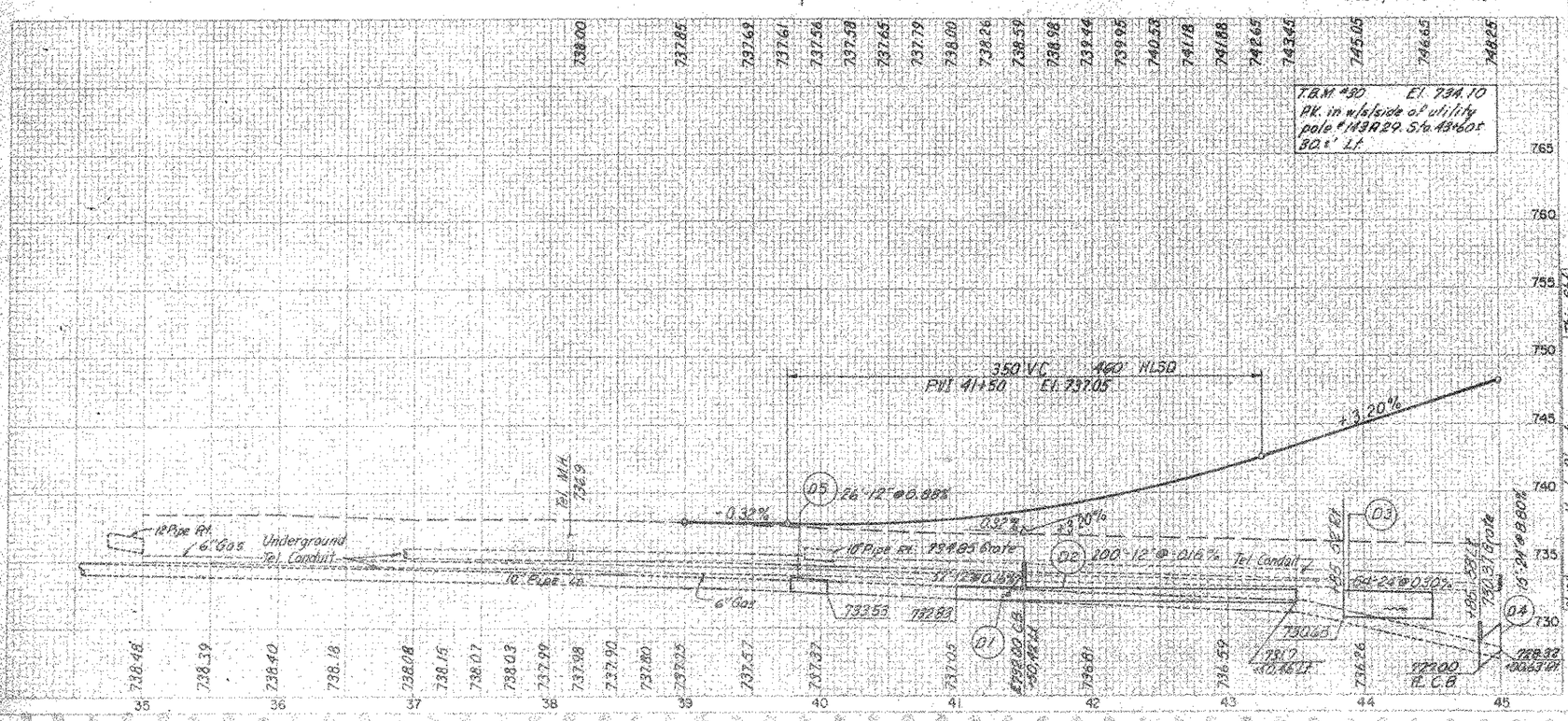
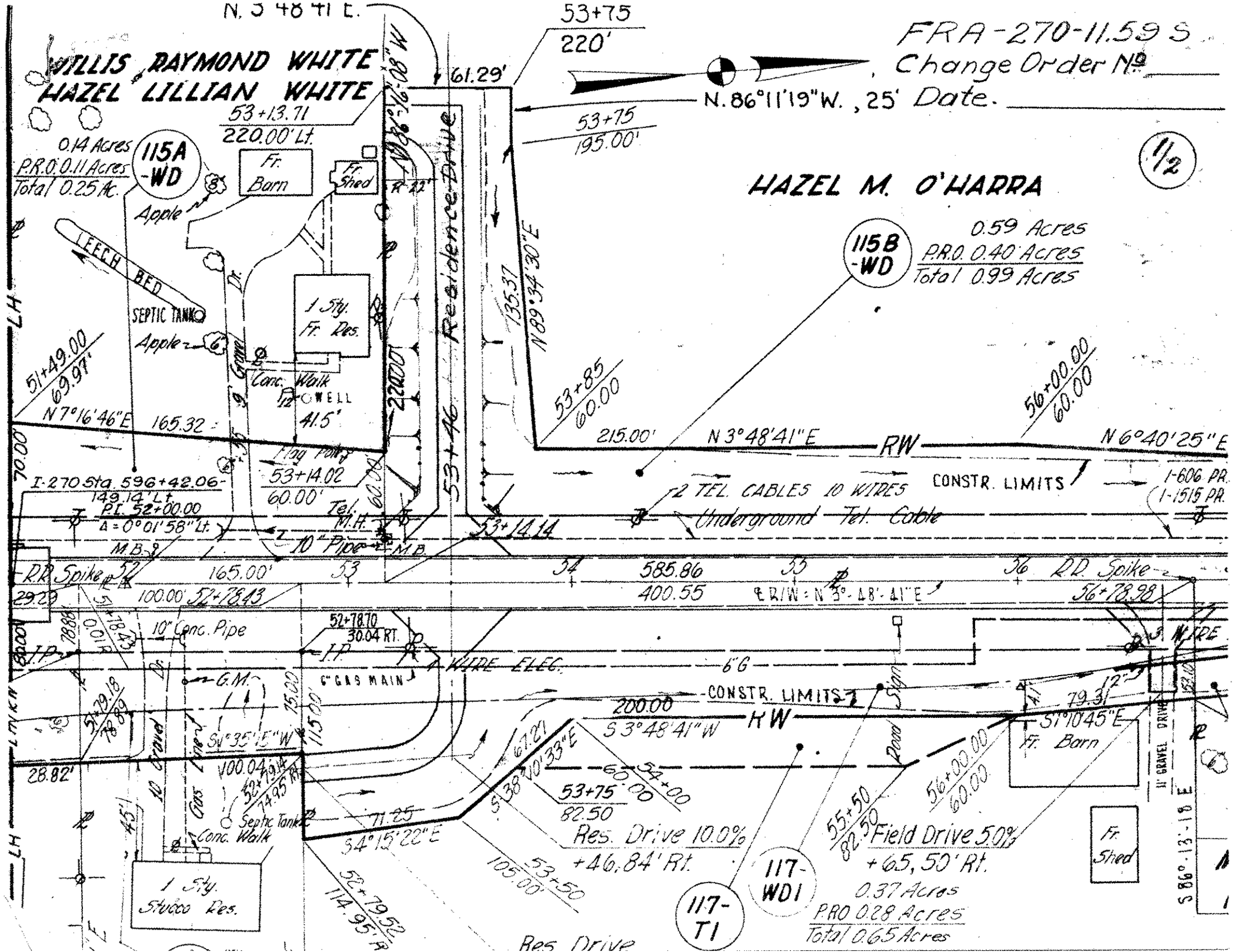
FRANKLIN COUNTY
FRA-270-11.59S

DRAINAGE				603			604		605		
Code	Location	8" Conduit Type F	12" Conduit Type C, Class B	12" Conduit Type D	24" Conduit Type D	24" Conduit, Type D, Inc. in C.I. Inlets	Standard No. 2.2A Catch Basin	8" Special, (Bend) Type F	Standard No. 2.2B Catch Basin	8" Special (Bend) Type G
		L.F.	L.F.	L.F.	L.F.	L.F.	Ea.	Ea.	L.F.	Ea.
This Sheet D-1	41+00 to 41+50 Lt.		52							1
D-2	41+50 to 43+00 Lt.			200			1			
D-3	43+85 to 44+49 Rt.				64					
D-4	44+85 to 45+00 Lt.				15		1			
D-5	39+79 to 40+25 Rt.			26						
Next Sheet D-8	46+96 to 47+00 Lt.	15						1		
D-9	45+75 to 46+49 Rt.					76				
Sheet 101 D-14	56+43 to 57+00			59						
D-15	57+00 to 58+28			128					1	
Total		15	52	413	79	76	2		1	



ROADWAY		606	606	202	660	202	Special	
		Guard Rail Type 4	Guard Posts	Existing Structure Removed	Seeding for Special Berm & Slope Protection	Inlets Removed	Drilled Well Abandoned	Disposal of Septic Tank
Code	Location	L.F.	Ea.	Lump	S.Y.	Ea.	Ea.	Ea.
This Sheet R-1	43+34.5 to 44+37 Lt.	162.5'						
R-2	44+35.5 to 45+00 Rt.	64.5'	(8)					
R-3	44+25 35' Rt.			Lump				
R-4	43+10 to 43+85 Rt.	75'	(9)					
R-5	44+97 to 48+47 Lt.	350'						
R-6	45+00 to 45+85.5 Rt.	85.5'	(10)					
R-7	46+34.5 to 48+47 Rt.	212.5'	(10)					
R-8	51+53 to 53+16.5 Lt.	162.5'	11					
R-9	51+53 to 53+15.5 Rt.	162.5'	4					
R-10	53+70 to 54+95 Lt.	125'	11					
R-11	53+70 to 54+95 Rt.	125'	10					
Next Sheet R-12	48+45 Lt				49			
R-13	48+42 Rt				45			
R-14	51+55 Lt				48			
R-15	51+55 Rt				38			
R-16	45+15 Lt. & Rt.					2		
R-17	51+25 Rt.						1	
R-18	51+35 Rt.							1
Sheet 101 R-19	54+95 to 55+45 Rt.	50'						
R-20	54+95 to 55+45 Lt.	50'						
Total		1625.0	73	Lump	175	2	1	1

See next sheet for Pavement quantities.

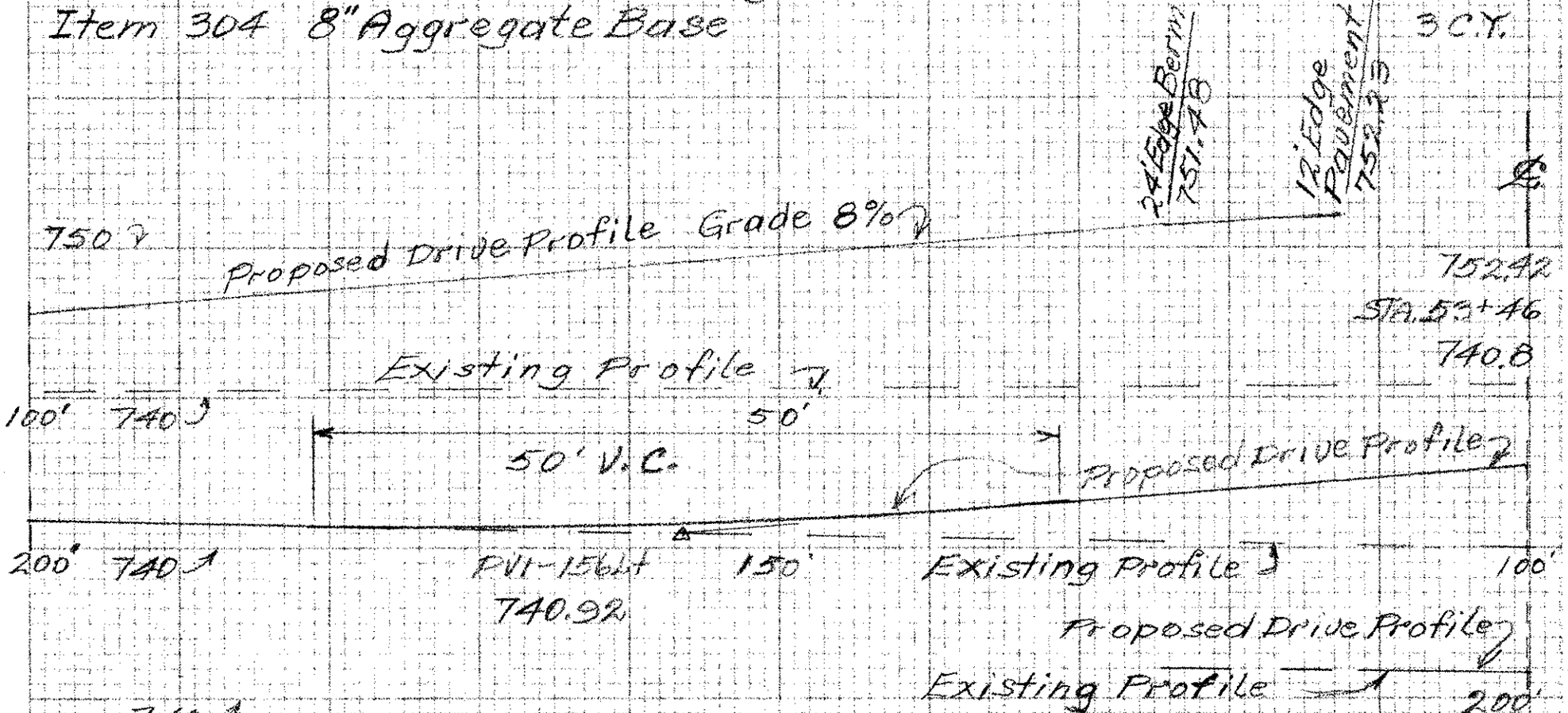

FRA-270-11.59 S
Change Order No.
Date.
WILLIS RAYMOND WHITE
HAZEL LILLIAN WHITE
115A-WD
0.14 Acres
P.R.O. 0.11 Acres
Total 0.25 Ac.
HAZEL M. O'HARRA
115B-WD
0.59 Acres
P.R.O. 0.40 Acres
Total 0.99 Acres
1/2
N. 3° 48' 41" E.
N. 86° 11' 19" W., 25'
N 86° 16' 08" W
61.29'
53+75
220'
53+75
195.00'
53+13.71
220.00' Lt.
Fr. Barn
Fr. Shed
Apple
LEECH BED
SEPTIC TANK
1 Sty. Fr. Res.
Conc. Walk
WELL
41.5'
Frog Pond
Drive
Residence
R 22'
135.37
N 89° 34' 30" E
53+46
53+85
60.00
56+00.00
60.00
215.00'
N 3° 48' 41" E
RW
N 6° 40' 25" E
51+49.00
69.97'
N 7° 16' 46" E
165.32'
70.00'
I-270 Sta 596+42.06
149.14' Lt.
P.I. 52+00.00
Δ = 0° 01' 58" Lt.
53+14.02
60.00'
Tel. M.H.
10" Pipe
MB
53+14.14
2 TEL. CABLES 10 WIRES
Underground Tel. Cable
CONSTR. LIMITS
I-606 PR.
I-1515 PR.
R.R. Spike
29.29
165.00'
100.00'
52+78.43
585.86
400.55
53
54
55
56
R.R. Spike
56+78.98
P.R.C. N 3° 48' 41" E
10" Conc. Pipe
52+78.70
30.04 Rt.
I.P.
6" GAS MAIN
WIRE ELEC.
6'G
G.M.
CONSTR. LIMITS
200.00
S 3° 48' 41" W
RW
Sign
WIRE
79.3'
N 51° 10' 45" E
Fr. Barn
11' GRAVEL DRIVE
S 86° 13' 16" E
28.82'
S 4° 35' 15" W
100.04'
52+79.14
14.95 Rt.
Gas
10' Gravel
Septic Tank
Conc. Walk
67.21
S 38° 10' 33" E
53+75
82.50
54+00
60.00
Pond
55+50
82.50
56+00.00
60.00
Res. Drive 10.0%
+46.84' Rt.
Field Drive 5.0%
+65.50' Rt.
0.37 Acres
PRO 0.28 Acres
Total 0.65 Acres
117-WD1
117-T1
1 Sty. Stucco Res.
Fr. Shed
53+50
105.00'
54° 15' 22" E
52+79.52
114.95' Rt.
Res. Drive

2/2.

FRA-270-11.59 S.
Change Order No
Date.

Work Required.
Extend proposed Residence Drive at Lockbourne Road STA 53+46 Lt. from 192 feet Lt. to 211 feet Lt. and Construct as shown.

Additional Quantities.
Item 203 Excavation including Embankment Construction 6 C.Y.
Item 304 8" Aggregate Base 3 C.Y.



FED. ROAD DIV. NO.	STATE	PROJECT		
2	OHIO			

FRANKLIN COUNTY
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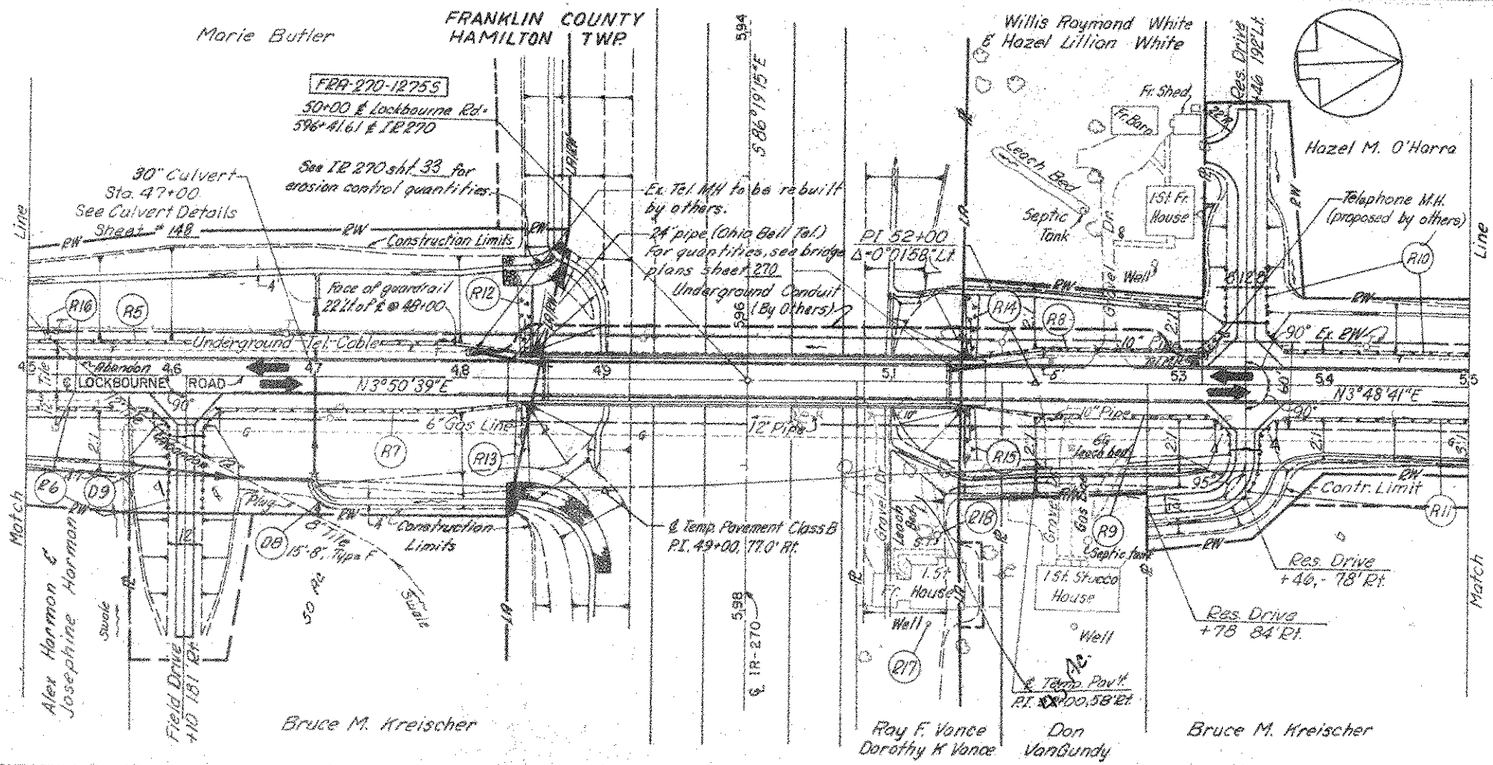
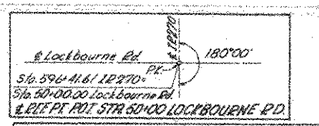
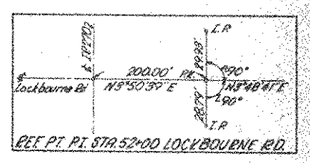




I 270 UNDER LOCKBOURNE ROAD

PROPOSED STRUCTURE FRA-270-12755

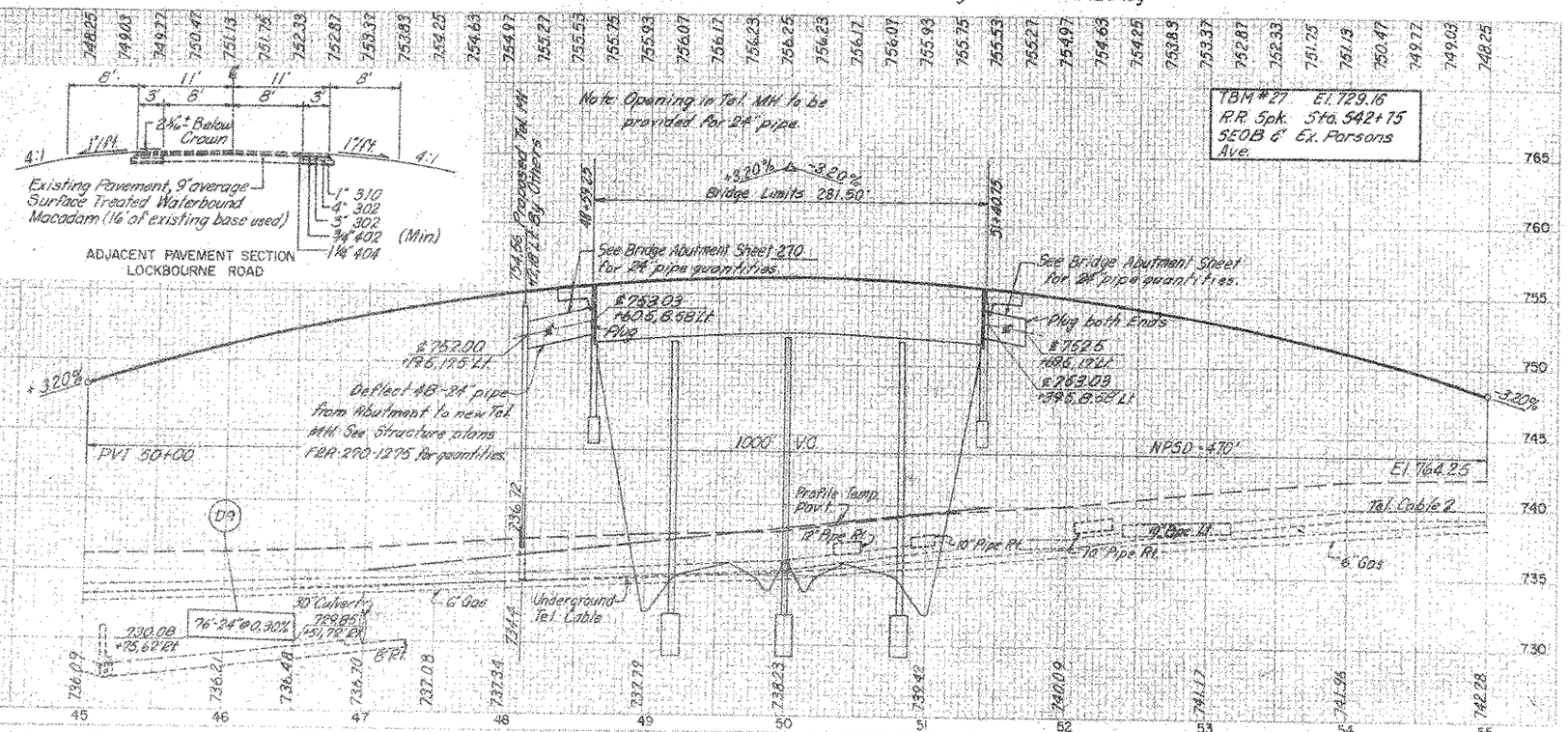
TYPE: 4 Span continuous steel beam with reinforced concrete deck and reinforced concrete substructure.
SPAN: 57'-0", 81'-6", 81'-6", 57'-0" ℄ brgs.
LOAD FREQUENCY RATING: CF-400(ST)
ROADWAY: 30'-0" ℄ of 2'-0" safety curbs.
SKEW: None
WEARING SURFACE: 1" Monolithic concrete
APPROACH SLABS: Special (25' long)
ALIGNMENT: Tangent
SUPERELEVATION: None



PAVEMENT	304 Aggregate Base	401 Asphalt Concrete (85-100)	404 Asphalt Concrete (70-85)	408 Bituminous Prime Coat	407 Tack Coat
LOCATION	C.Y.	C.Y.	C.Y.	Gal.	Gal.
39+00 to 40+00			6		15
39+92 Rt.	11				
41+78 Lt.	14	4		28	
44+11 Rt.	31	13		90	
46+10 Rt.	43	4		28	
53+46 Lt.	55	4		28	
53+46 Rt.	34	4		28	
56+65 Rt.	14	4		28	
58+08 Rt.	12	5		28	
TOTAL	214	38	6	258	15

See previous sheet for Drainage & Roadway quantities.

TEMPORARY PAVEMENT	615 Class B
LOCATION	S.Y.
38+50 to 58+50 Rt.	4444
TOTAL	4444



FED. ROAD SYSTEM	STATE	PROJECT	
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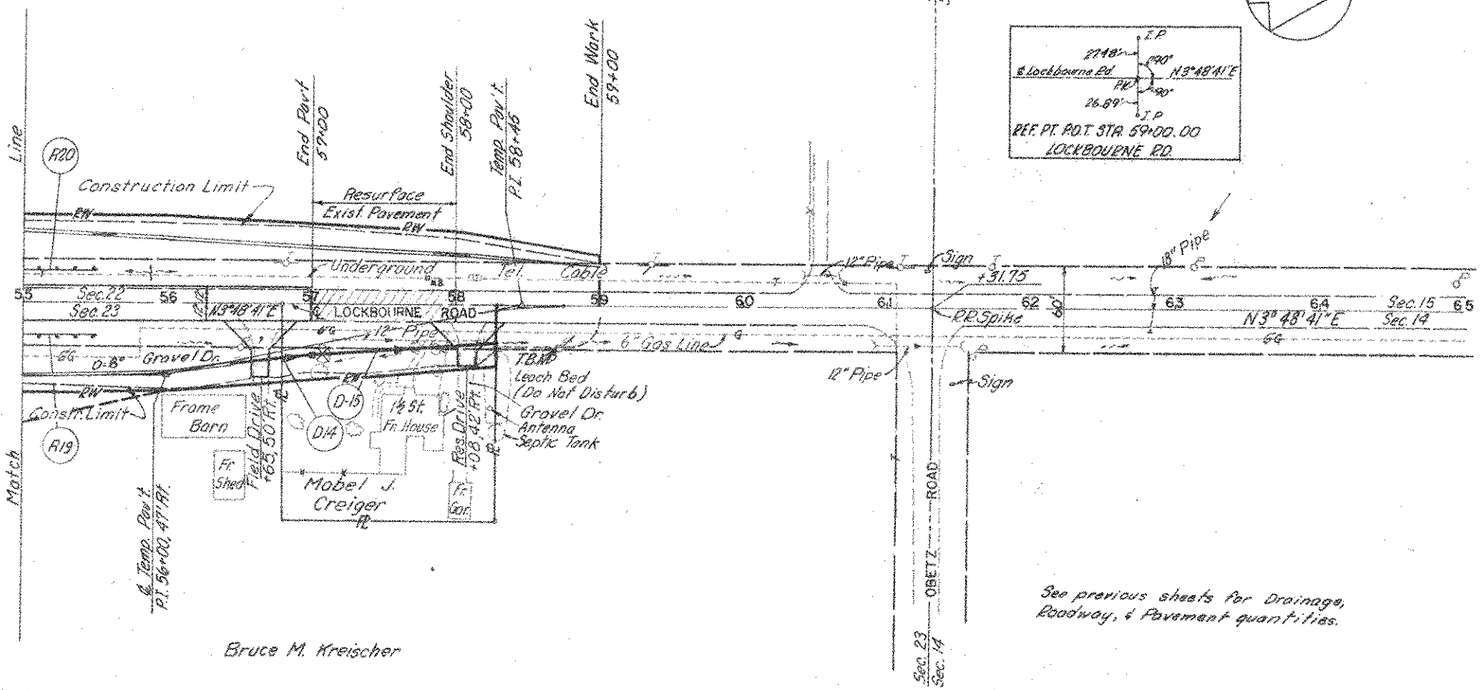
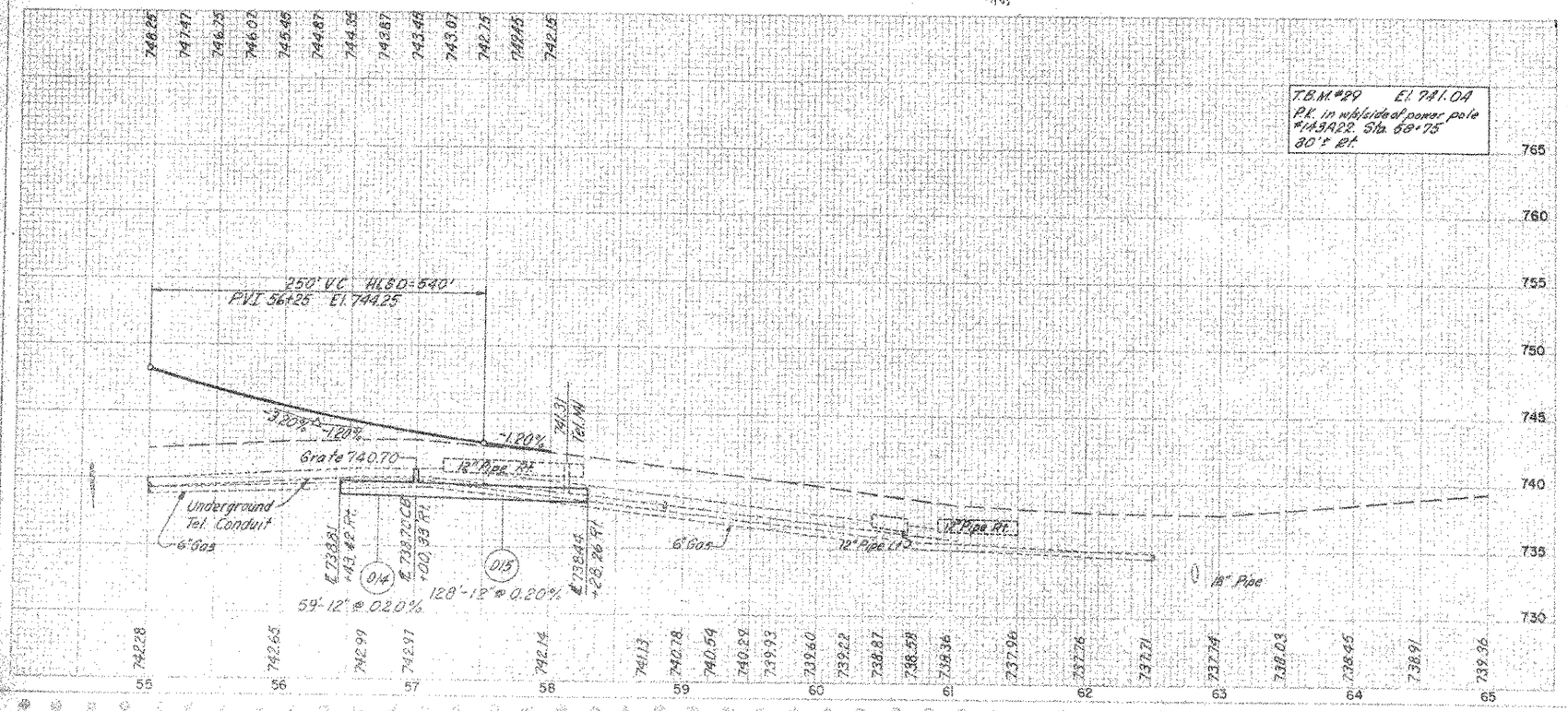
FRANKLIN COUNTY
FRA-270-11.59S

FRANKLIN COUNTY
HAMILTON TWP.

Hazel M. O'Harra

Bruce M. Kreischer





FED. ROAD DIV. NO.	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY
FRA-270-11.59 S

SECTIONS

	LEFT WIDTH	CUT	FILL	RIGHT WIDTH
43+00	98	0	1033	98
42+00	88	856		66
41+00	66	667		54
40+00	54	606		55
39+00	55	306		0
38+00	0	0		0

END AREA

	CUT	FILL
43+00	56	310
42+00	36	310
41+00	65	112
40+00	56	42
39+00	80	7
38+00	37	34

LOCKBOURNE ROAD X-SECTIONS 38 TO

FED. AID OR SUB.	STATE	PROJECT	
2	OHIO		

103
332

FRANKLIN COUNTY
FRA-270-11.59 S

SEEDING		END AREA		VOLUME	
XING WIDTH	AS	CUT	FILL	CUT	FILL
159	1683			96	1574
144	1478			114	1342
122	1172			48	1080
89	1039			6	674
				300	4485
				100	3240
					600
				115	1822

Add for 46+10

Add for Drive 44+11

Fill for Drive 46+10

Fill for Drive 44+11

Field Drive @ 46+10

Res. Driveway @ 44+11

Section Ahead

Section Back

Section @ 43+75

℄ Temporary Pavement

30" Culvert
Sta 47+00
See Culvert Details
Sheet # 148

733.37
47+00
736.7

751.13
46+00
736.2

745.05
44+00
736.3

748.25
45+00
736.1

℄ 729.70, 8" Conduit
47+10, 84' Rt.

℄ 729.70
46+82, 85' Rt.
Begin Ex. 12"
End Ex. 8"

Std. N°2-2-A C.B.
59' Lt. & Sta. 45+85
Top Grate = 730.37
℄ Window = 729.87

℄ 729.32
45+80
Std. N°2-2-A C.B.

24" @ 45+75

24" Pipe @ 43+85

Plug

Ex. 8" Tile

Ex. 12" Tile

Ex. 12" Tile (Abandoned)

PVI 733.89
Sta. 46+10

PVI 733.61

℄ 734.0

734.0

734.5

734.60

730.04

730.34

730.64

731.80

728.72

728.52

728.67

727.26

727.34

730.88

730.86

15.24' @ 8.80%

12.0 %

10.0 %

50' VC

40' VC

℄ +10, 751.17

℄ +11, 745.21

℄ 45+20

℄ 45+80

D4

D8

D9

D3

BOCKBOURNE ROAD X-SECTIONS #4 TO #7

STATE	PROJECT
OHIO	

104
332

FRANKLIN COUNTY
FRA-270-11.59 S

STEPPING		
END AREA	VOLUME	
	CUT	FILL
121		
717		
137		
133		
137		
140		
1232		
236		
133		
157		
133		
808		
158		
1761		

51+41.25-51+50
51+16 to 51+41.25
38+00 to 48+88
48+59.25 to 48+88
48+59.25-48+50

END AREA		VOLUME	
CUT	FILL	CUT	FILL
22	1186		
32	1046	50	2067
32	1046	10	335
0	429		
			2297
			2403
48	1484	0	740
48	1484	16	505
			113 2911
74	1660		
			3155 5929

Abutment Sections @
51+41.25 - 51+50

Earthwork Quantity
51+16 to 51+41.25

Earthwork Quantity
38+00 to 48+88
Total to Sub Summary

Earthwork Quantity
48+59.25 to 48+88

Abutment Sections @
48+59.25-48+50

BRIDGE LIMITS 48+59.25 to 51+40.75

754.97
52+00
740.1

755.53
51+50
739.8

755.53
48+50
737.2

754.97
48+00
737.3

Res.
℄
P/W
740.5
737.50
1186
12:1
2:1
4:1
1.5:1

2.50%
+65.75 11.92'Lt
℄ 751.28
24" 858'Lt
℄ 752.03
1046
1.00%
740.0
737.00

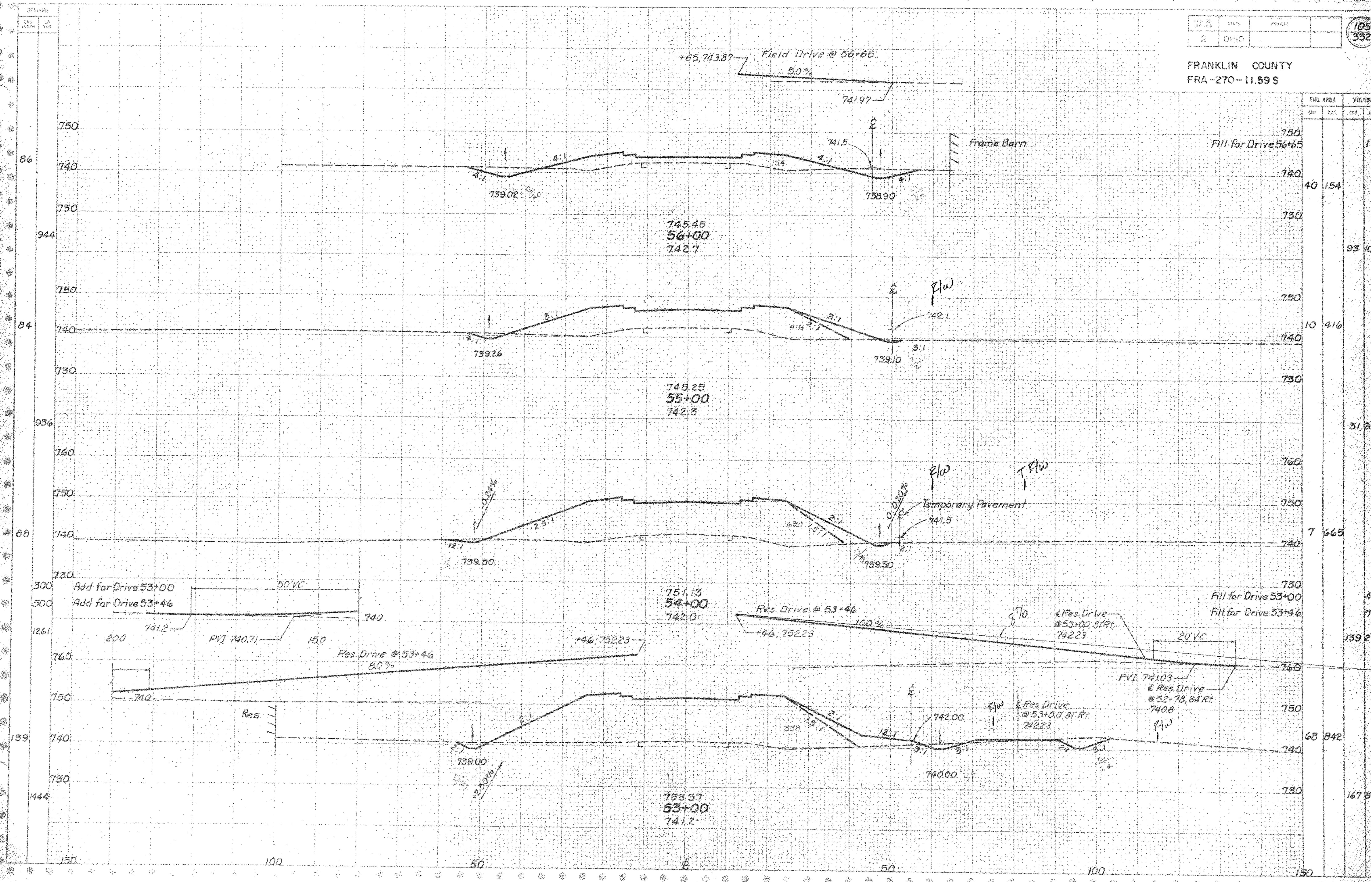
24" +61.05, 8.58'Lt.
℄ 752.03
1363
℄
735.8
731.00
18" Typical
Dumped Rock
754.0
Tel. M.H. (By Other)
1.52%
24" +11.18'Lt.
℄ 750.71
1620
Ex. Telephone M.H.
730.24
754.4
Temporary Pavement
735.0
Typical Temporary Section
730.5

LOCKBOURNE ROAD X-SECTIONS #8 TO 52

2 OHIO

105
332

FRANKLIN COUNTY
FRA-270-11.59 S



LOCKBOURNE ROAD X-SECTIONS 53 TO 56

SEEDING	
LAG WIDTH	SQ. YDS.
6394	51+16 to 59+00

I-S RTE SECTION	STATE	PROJECT	
2	OHIO		

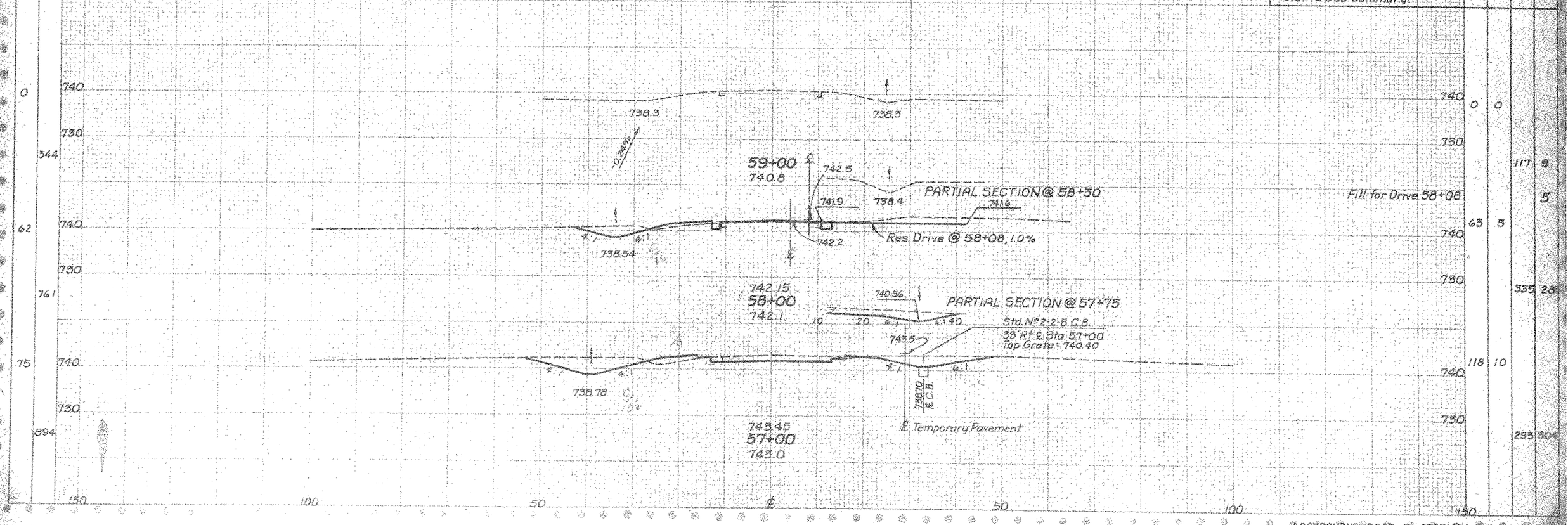
106
332

FRANKLIN COUNTY
FRA-270-11.59S

END AREA		VOLUME	
CUT	FILL	CUT	FILL

Earthwork Quantity
51+16 to 59+00
Total to Sub Summary

1235
8391



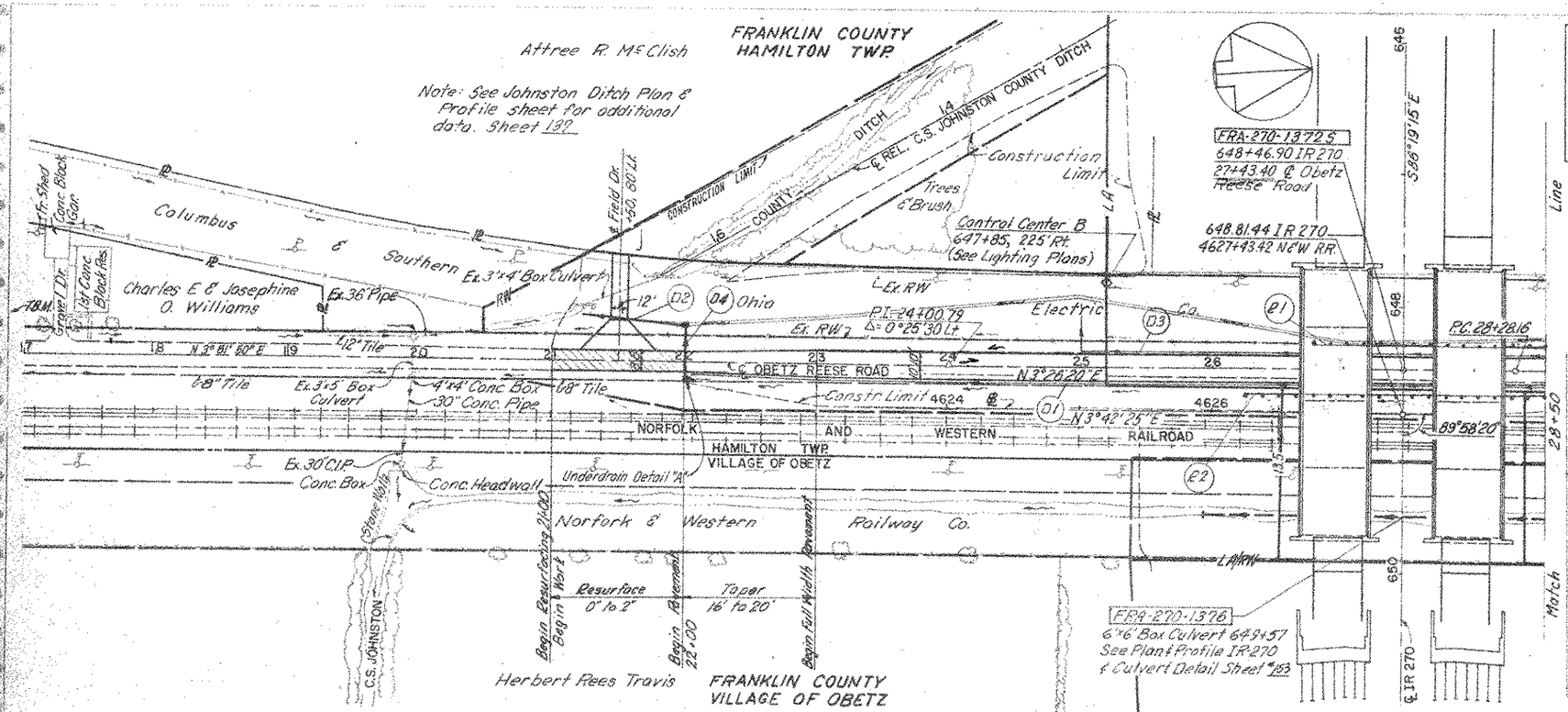
LOCKBOURNE ROAD X-SECTIONS 57 TO 59

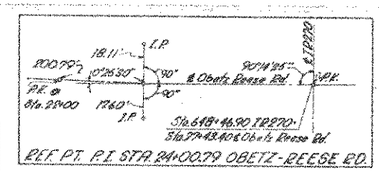
FRANKLIN COUNTY
FRA-270-11.59S

Attree R. McClish

FRANKLIN COUNTY
HAMILTON TWP.

Note: See Johnston Ditch Plan & Profile sheet for additional data. Sheet 132





2	0.00				

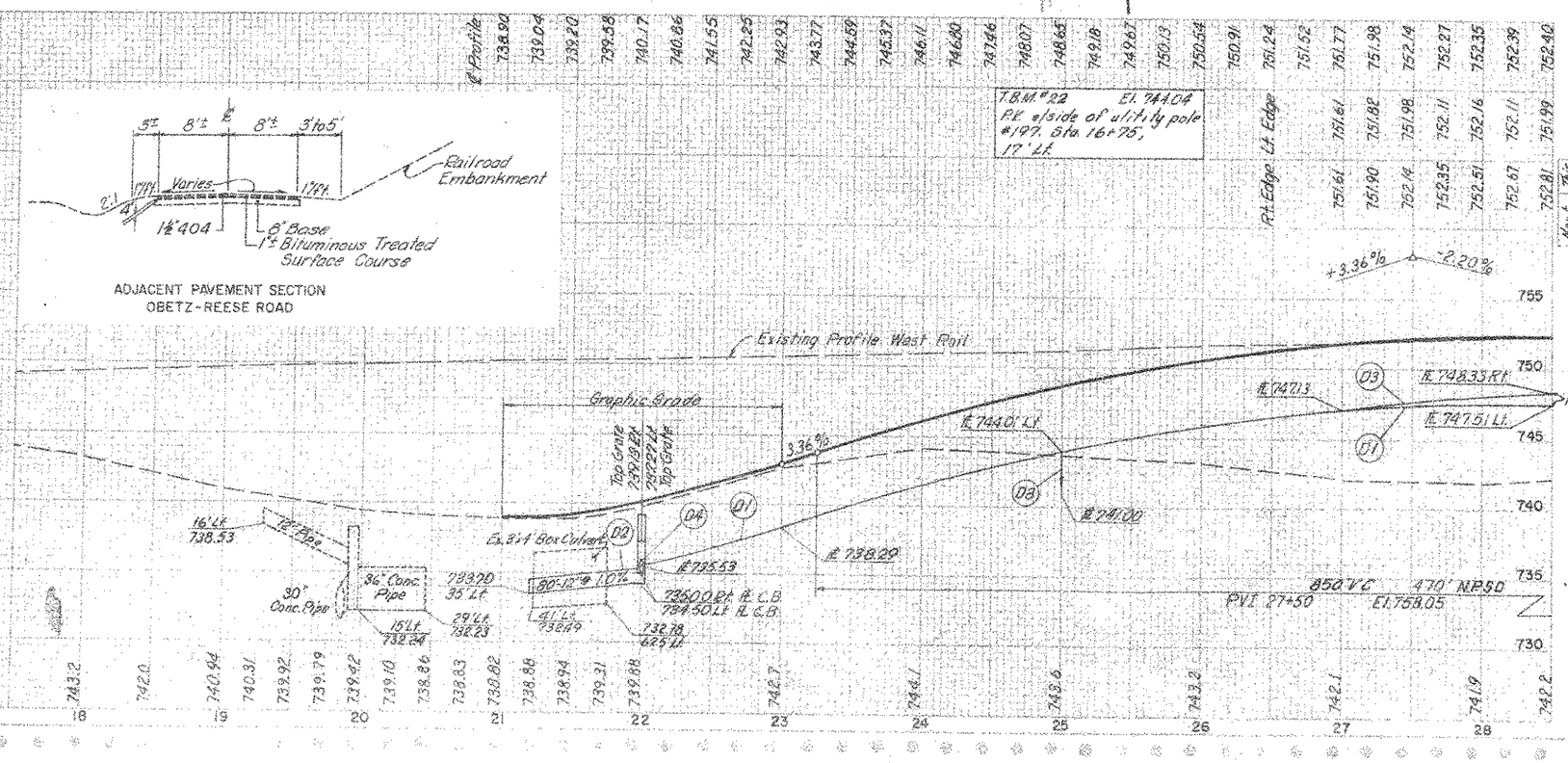
DRAINAGE

		I Section			Quantities					
					603			604	605	
		12" Conduit Type B, Class B	12" Conduit Type D		6" Conduit Type F	Std. No. 222-A Catch Basin	Std. No. 2-2-B Catch Basin	6" Pipe (Shallow) Underdrain	6" Special Pipe Underdrain (Bend)	
Code	Location	L.F.	L.F.		L.F.	Ea.		L.F.	Ea.	
D1	22+00 to 28+50 Rt.				10			650	1	
D2	21+20 to 22+00 Lt.		80			1				
D3	25+00 to 28+60 Lt.				10			375	1	
D4	22+00 Lt. to Rt.	40				1	1			
	Total-I Section	40	80		20	1	1	1025		

ROADWAY

		I Section	Quantities
			606
			Guard Rail Type 4
Code	Location		L.F.
R-1	27+78 to 28+53 Lt.		175'
R-2	26+25 to 28+50 Rt.		225'
R-3	28+53 to 33+53 Lt.		500'
R-4	28+50 to 29+00 Rt.		50'
	Total-I Section		950

ADJACENT PAVEMENT SECTION
OBETZ-REESE ROAD



PAVEMENT

		I Section			Quantities	
		304	402	404	407	408
		Aggregate Base	Asphalt Conc. (B5-100)	Asphalt Conc. (B5-100)	Tack Coat	Prime Coat
	LOCATION	C.Y.	C.Y.	C.Y.	Gal.	Gal.
This Sheet	21+00 to 22+00		2	2		24
	21+50 Lt	21		4		28
Next Sheet	38+60 to 39+50			12	35	
	Total-I Section	21	2	18	35	52

FED.RD. DIVISION	STATE	PROJECT	
2	OHIO		

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332

FRANKLIN COUNTY
FRA-270-11.59S

CURVE DATA
PI = 28+98.75
Δ = 5°38'34"
D = 4°00'
R = 1432.39'
T = 70.59'
L = 141.07
E = 1.74'

State of Ohio

Attree R. McClish

FRANKLIN COUNTY
HAMILTON TWP

38+70.81 Rel.
Obetz Reese Rd
0+00 Lisle Ave.
PI 38+70.81
Δ = 0°34'14" Rt

18" Culvert Sta. 34+00
See Culvert Details Sheet # 163

Center Line of Lisle Ave. Sec. 23 Sec. 14

S 38°11'18" E

B.T. Surface

COLUMBUS TERRACE SUBDIVISION

711 703
710 709 708 707 706 705 704

MARLBORO AVE.

Line

PT 29+69.23

RW

Construction Limits

R=40'

Columbus PI

Southern R3

N 3°12'14" W ℄ REL OBETZ REESE ROAD

Ohio Electric Co.

End Pavement & Shoulder 38+60.00

Resurfacing 40+1½" Min.

B.T. Surface

NEW SCIOTO VALLEY ROAD

N 1°38'00" W

VILLAGE OF OBETZ

EXISTING OBETZ REESE ROAD

Sec 23
Sec 24

Ex. RW

Sec 14
Sec 13

4630 4632 ℄ Construction Limit

N 3°42'25" E

NORFOLK AND WESTERN RAILROAD

HAMILTON TWP
VILLAGE OF OBETZ

R4

Signal Box

End Resurfacing 39+50

End Work 40+00

Norfork and Western Railway Co.

Stone Head Wall

24" Conc. Pipe

Match

4" Tile

LA

Herbert Rees Travis

FRANKLIN COUNTY
VILLAGE OF OBETZ

Sec 24
Sec 13

See previous sheet for all quantities.

E. Obetz-Reese Rd. — 94.76 — 18.37 — 1 P — 155.35 — 30° — P.I. — P.C. 28+28.16 — 90° — 19.55 — P.T. — 1 P — E. Obetz-Reese Rd. — 3°38'34"

REF. PT. P.I. STA. 28+98.75
OBETZ-REESE ROAD

P.I. N/side pole "NSR/OS" — N 88°21'38" E — 207.76 — 67.76 — 155.38 — P.I. E/side pole "NSR/OS" — 168.07' — pole "NSR/61" — E. Obetz-Reese Rd. — 3°38'36" — P.I. 28+98.75

REF. PT. P.O.T. STA. 38+70.81
OBETZ-REESE ROAD

T.B.M. #23 El. 743.94
Iron pin, P.I. reference point Sta. 28+98.75 17.55' Rt.

T.B.M. #24 El. 745.12
P.K. w/side of power pole #148/141. Sta. 39+25.2, 30.2' Rt.

Existing Profile West Rail

400' VC 620' WLSD
PVT 34+50 El. 742.66

-2.20%

+0.56%

Variable

850' VC

18" Culvert

REL OBETZ-REESE ROAD PLAN & PROFILE 28+50 TO 44

DIST. NO.	STATE	PROJECT	
2	OHIO		

109
332

FRANKLIN COUNTY
FRA-270-11.59S

EXISTING

SURF. WIDTH	SQ.
83	922
83	767
55	74
0	160

Add for Field Drive 21+50

746.11
24+00
744.1
759.20
744.00

742.93
23+00
742.7
741.00
738.40
742.00

Std. N° 2-2-B C.B.
26 Lt. ℄ Sta. 22+00
Top Grate = 737.27
Bench 741.00
734.50
℄ C.B.
40'-12" @ 1.00%
735.00
℄ C.B.

740.17
22+00
739.9

Profile Field Drive
@ 21+50
Headwall
741.00
10%
10%
738.38
3'x4' Cut Rock
Culvert
738.46
+75 - 62.5 Lt.
732.78

739.20
21+50
738.9

3'x5' Cut Rock
Culvert

738.90
21+00
738.8

Std. N° 2-2-B C.B.
14' Rt. ℄ Sta. 22+00
Top Grate = 739.13

END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
54	70		
		319	148
118	10		
		269	20
27	1		
		13	0
0	0		
		4	52

REL. OBETZ-REESE ROAD X-SECTION 21 TO 24

T.D. RD DIVISION	STATE	PROJECT	
2	OHIO		

110/332

FRANKLIN COUNTY
FRA-270-11.59S

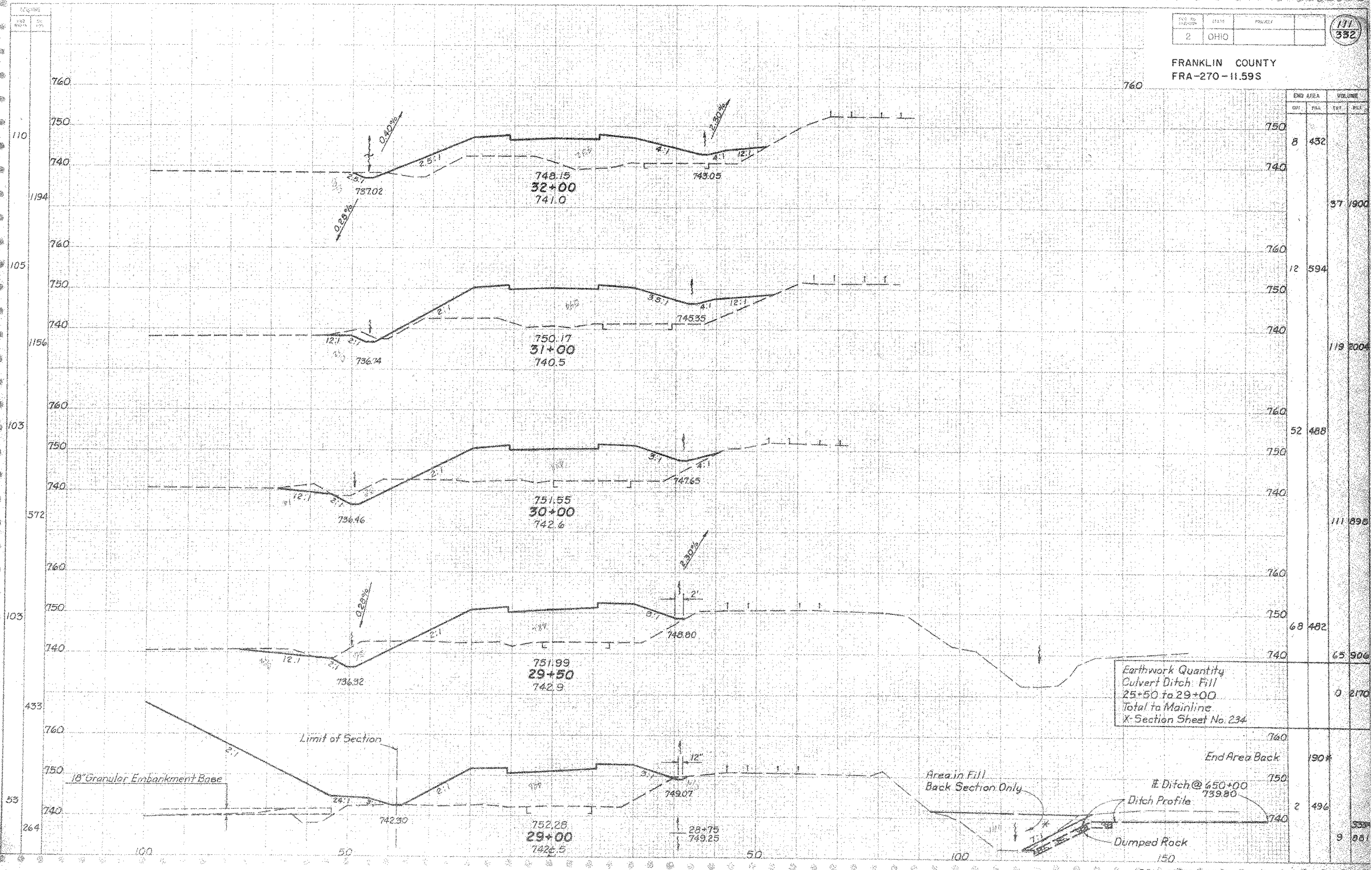
SECTIONS			END AREA		VOLUME	
NO.	WIDTH	CS	CUT	FILL	CUT	FILL
42	242	760		170*		
		750				
		740	8	456		506
45	456	760			17	848
		750		160*		
		740	10	460		622
37	494	760			22	1541
		750		176*		
		740	2	372		715*
52	950	760			11	1363
		750		210*		
		740	4	364		994*
65	933	760				
		750	4	580		
		740		0 *	14	1544
			20	254		
					137	601

Limit of Section
760.92
12"
2'
750.00
752.55
12"
2:1
749.05
752.40
28+50
742.2
18" Granular Embankment Base
Note: For addional Granular Embankment Base details see Mainline X-Sections Sheet # 232 thru 235
Limit of Section
761.32
12"
750.50
752.09
12"
2:1
748.84
752.35
28+00
741.9
℄ Pier
18"
Note: Cost of all excavation or embankment required for providing a level working surface for Granular Embankment Base placement shall be included in the unit price bid for said Granular Embankment Base.
760.56
12"
750.00
750.69
12"
2:1
748.29
751.77
27+00
742.1
18"
Limit of Section
Limit of Section Ahead
26+00 Ahead
26+00 Back
747.00
745.00
749.67
747.47
750.54
26+00
743.2
18"
Limit of Section
748.00
Variable
6'x6' Box Culvert
18"
731.96
* Culvert Ditch Fill
Limit of Section Earthwork Only
℄ Typical
748.25
731.61
0.25%
748.50
18" Granular Embankment Base
731.51
* Culvert Ditch Fill 26+00
Variable
18"
731.21
26+00 Ahead
26+00 Back
25+50
PARTIAL DITCH @ 25+50 BEGIN WORK
731.35
5.00%
D4
741.00
741.00
744.01
748.65
25+00
743.6
12"
2:1
746.10
+0.80%
740.00
100
50
50
100
150

REL. OBETZ-REESE ROAD X-SECTIONS 25 TO 28

	STATE	PROJECT
2	OHIO	

FRANKLIN COUNTY
FRA-270-11.59S



REL. OBETZ-REESE ROAD X-SECTIONS 29 TO 32

FED. AID DIVISION	STATE	PROJECT	
2	OHIO		

112
352

FRANKLIN COUNTY
FRA-270-11.59S

SEEDING

EAD WIDTH	SQ. YDS.
136	1511
136	1456
126	1306
109	1228
112	1253

END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
152	49		
		533	280
136	102		
		426	393
94	110		
		215	407
22	110		
		59	744
10	292		
		33	334

739.02
744.05
37+00
741.9
740.14

738.62
743.58
36+00
740.2
739.58

738.22
743.71
35+00
740.2
739.02

737.82
744.83
34+00
742.8
735.46

18" CULVERT @ 34+00
See Culvert Detail Sheet No. 163

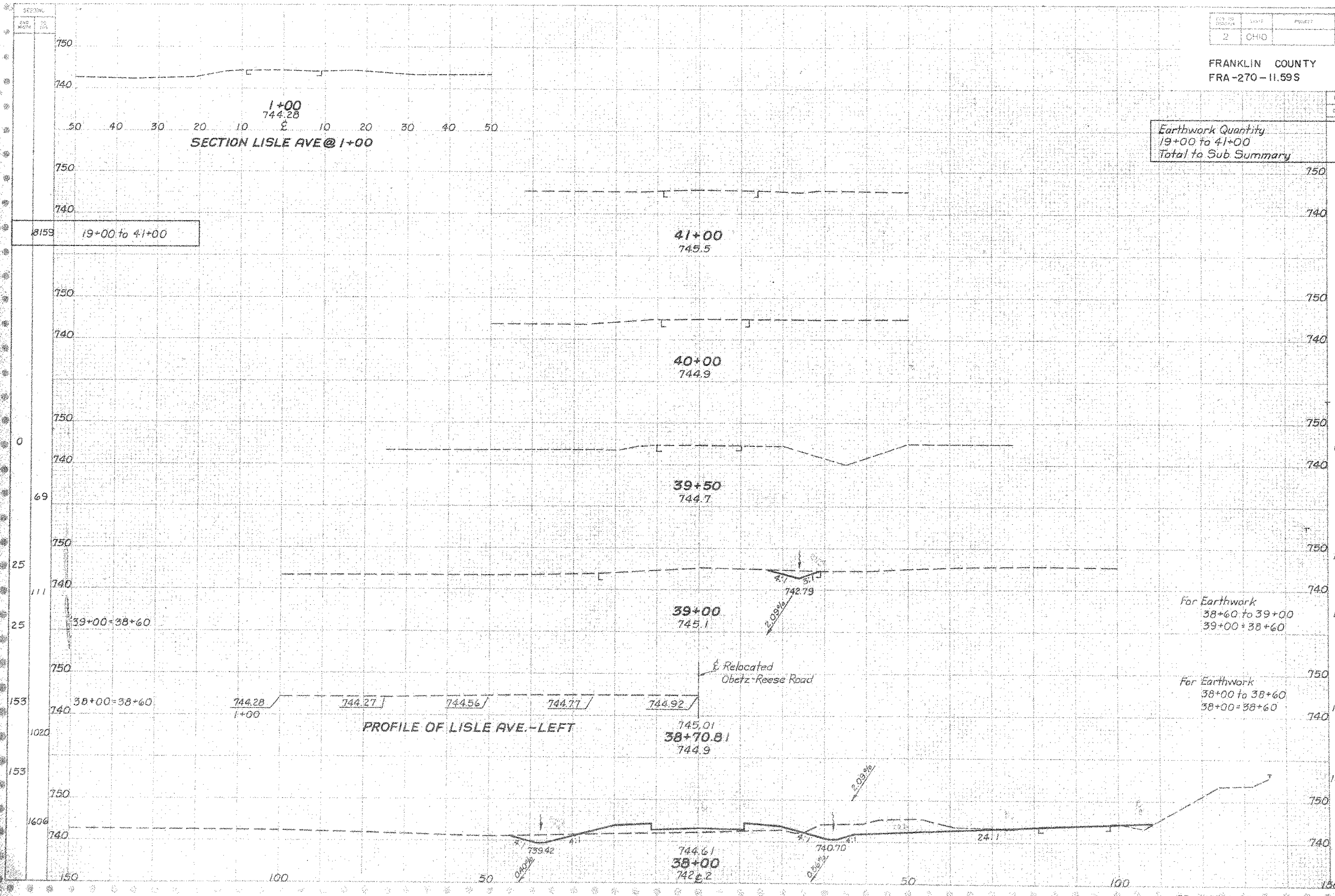
737.42
746.04
33+00
743.2
740.75

REL. OBETZ-REESE ROAD SECTIONS 33 TO 37

	2	OHIO			113/332

FRANKLIN COUNTY
FRA-270-11.59S

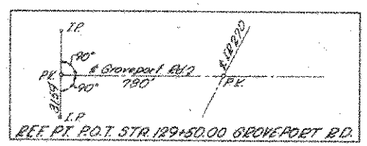
	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
Earthwork Quantity 19+00 to 41+00 Total to Sub Summary			3186	6254
	0	0		
			11	0
	12	0		
			18	0
	12	0		
	106	72		
			236	160
	106	72		
			478	224

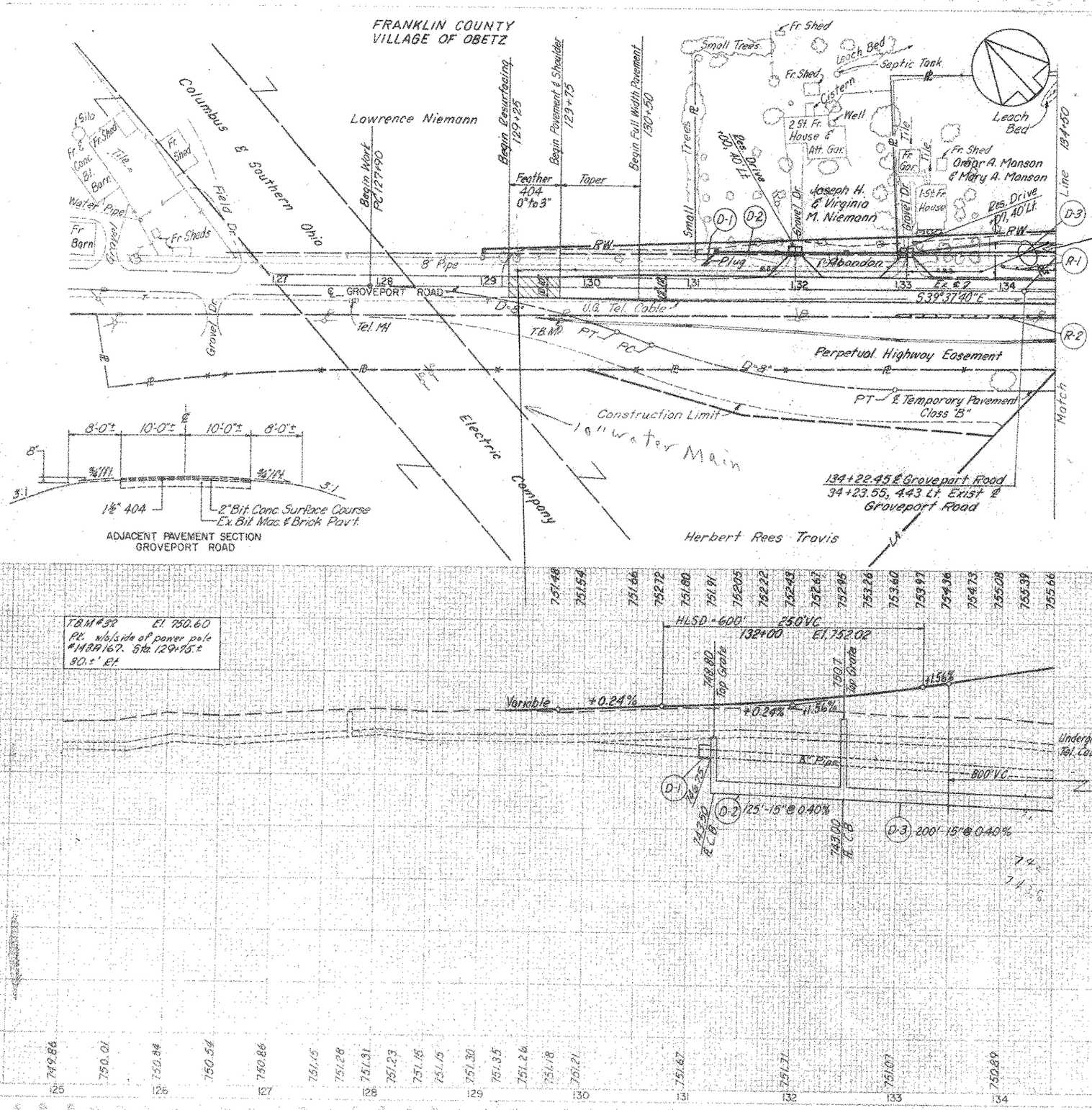


2	OHIO			

114
332

FRANKLIN COUNTY
FRA-270-11.59 S





DRAINAGE

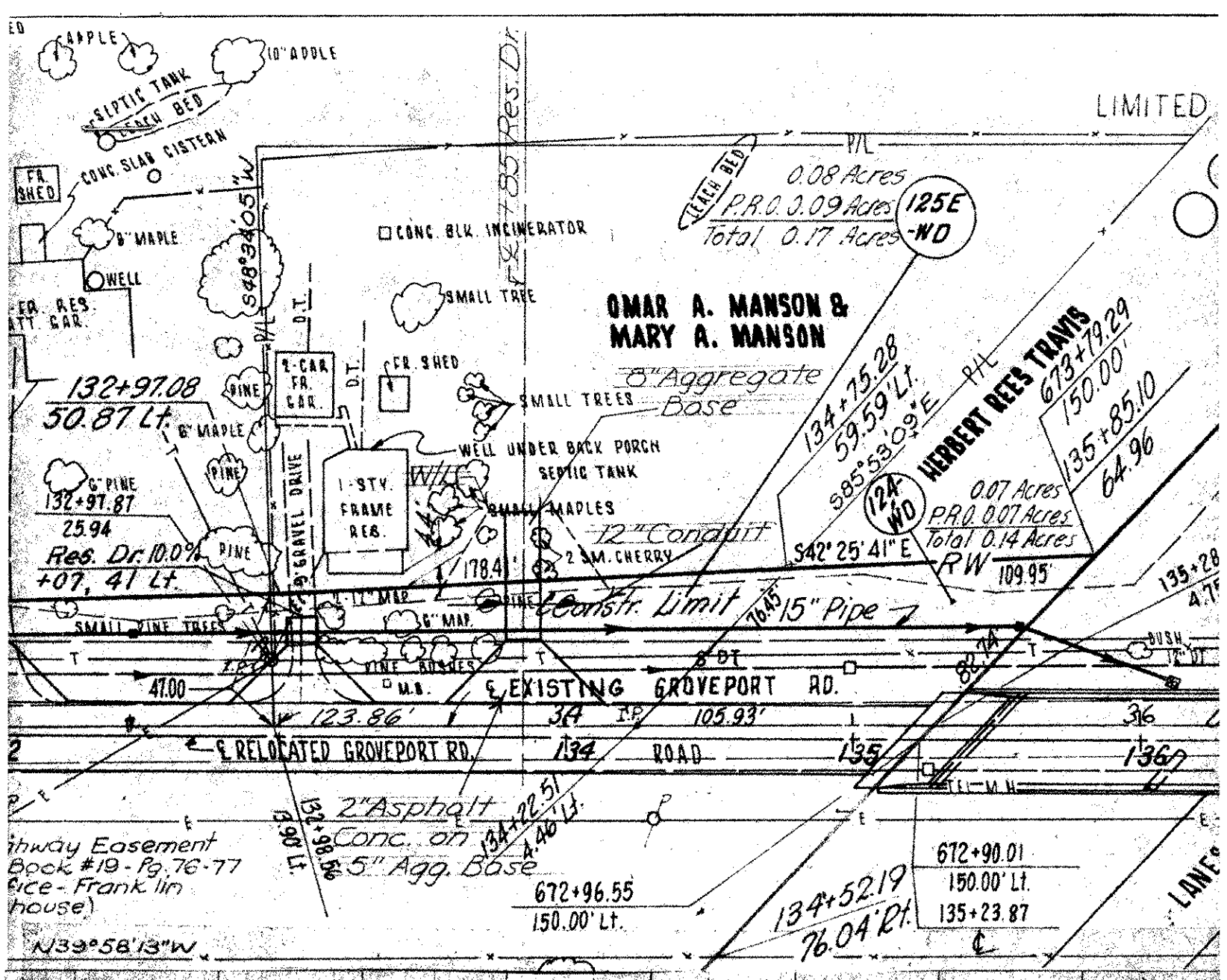
Code	Location	601 Dumped Rock Channel Protection CY	602 Concrete Masonry CY	603 12" Conduit Type C, Class B LF	603 15" Conduit Type D LF	603 12" Conduit Type D LF	603 15" Conduit Type C, Class B LF	603 15" Conduit Type F LF	603 15" Special Reflared Type F Conduit LF	603 12" Conduit Type E LF	603 Standard No. 22.2 B Catch Basin Ea.	604
D-1	131+10 to 131+25 Lt.			20								
D-2	131+25 to 132+50 Lt.				125						1	
D-3	132+50 to 134+50 Lt.				200						1	
D-6	134+50 to 135+58 Lt.				107						1	
D-7	135+58 to 135+83 Lt.					27						
D-8	135+83 to 136+14 Lt.	3	0.26				33	2				
D-9	142+82 to 143+18 Lt.					36						
D-10	150+00 to 150+20 Lt.									20		
D-11	157+28 Lt to 157+64 Lt.					36						
Total		3	0.26	20	432	72	27	33		20	3	

Sheet 116 Next Sheet, This Sheet

Note: Pavement quantities shown on sheet 116

ROADWAY

Code	Location	606 Guard Rail Type 4 L.F.	660 Sodding for Special Berm S.Y.	202 Pipe Removed 24" & Under L.F.	202 Inlets Removed Ea.	660 Sodding S.Y.
R-1	134+00 to 134+50 Lt	50				
R-2	133+00 to 134+50 Rt	150				
R-3	148+80 to 149+50 Lt					50
R-4	149+15 to 145+50 Rt					27
R-5	134+50 to 135+50 Lt	100				
R-6	134+50 to 135+12.5 Rt	62.5				
R-7	139+45 to 140+95 Lt	150				
R-8	139+10 to 139+85 Rt	75				
R-9	135+43 Lt		20	20		
R-10	135+10 Rt		23	23		
R-11	139+47 Lt		17	17		
R-12	139+14 Rt		15	15		
R-13	143+00 to 147+00 Rt			410	1	
R-14	143+25 to 147+00 Lt			375	1	
R-16	147+50 to 149+75 Lt	225				
R-17	147+75 to 149+00 Rt	125				
R-18	138+90 to 139+90 Rt					
Total		937.5	75	860	2	77



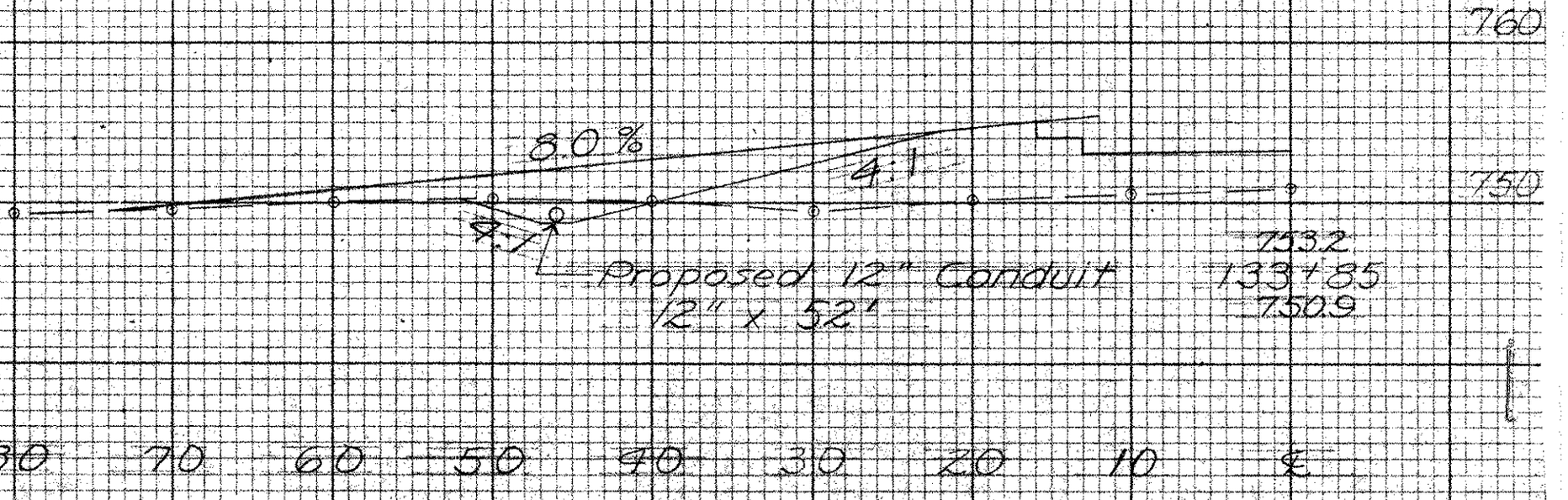
FRA-270-11.595 Change Order No. ____ Date ____

I-16-270-4(2)102

Work Required: Construct a 12' wide stone Res. Drive at Sta. 133+85 on left side of Groveport Road, and install a 12" conduit drive pipe as per change order.

ESTIMATED QUANTITIES

ITEM	603	– 12" Conduit Type F	52	Lin. Ft.
ITEM	304	– Aggregate Base (70-85)	16	Cu. Yds.
ITEM	404	– Asphalt Concrete	3	Cu. Yds.
ITEM	408	– Bituminous Prime Coat 702.09, RT-2 or RT-3	38	Gal.
ITEM	203	– Embankment	30	Cu. Yds.



FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

115
332

FRANKLIN COUNTY
FRA-270-11.59S

I 270 UNDER GROVEPORT ROAD

PROPOSED STRUCTURE FRA-270-1423.5

TYPE: 4 Span continuous steel girders with reinf. conc. deck and substructure.
SPAN: 72'-9", 118'-0", 118'-0", 72'-9" % brgs.
LOAD FREQUENCY RATING: CF = 400(57)
ROADWAY: 30'-0" flr of 2'-0" safety curbs
SKEW: 43°18'25" Lt. Fwd.
WEARING SURFACE: 1" Monolithic Concrete
APPROACH SLAB: Special (25' long.)
ALIGNMENT: Tangent
SUPERELEVATION: None

VILLAGE OF OBETZ

GROVEPORT ROAD CURVE DATA
PI = 141+92.65
Δ = 14°50'15"
D = 4°00'
T = 186.51'
L = 370.94'
E = 12.09'
PI = 150+52.74
Δ = 9°54'09" Lt.

EX. ℄ GROVEPORT ROAD CURVE DATA
PI = 42+32.25
Δ = 15°45'39"
D = 4°00'
PI = 51+11.69 Back = 51+06.64 Ahead
Δ = 9°12'43" Lt.
D = 3°00'

REF. PT. P.O.T. STA. 137+30 GROVEPORT R.D.

Omar A. Manson &
Mary A. Manson
FRA-270-14.98S
137+30.00 ℄ Groveport Rd.
674+31.41 ℄ I.R.-270

Herbert Rees Travis

PC 140+06.14
Ex. PC 401+33.87
PT 143+77.08
Ex. PT 44+28.04
Ex. 12" Pipe
Field Drive +00.50 Lt
Construction Limit
Next Sheet Line
Match Line
Ex. RW
Ex. ℄ GROVEPORT ROAD
℄ Temporary Pavement Class 'B'
Ex. PI 42+32.25
PI 141+92.65
℄ Temp. Pav't. Class B
Perpetual Highway Easement
℄ MH 0+00.00
Δ = 0°00'
24" RCP Stub W/ Plug
Approx. Location of Prop. 24" RCP San. Sewer by Others
8" Stubs
Approx. Location of Proposed 24" RCP Sanitary Sewer by Others
Approx. Location 20' Easement by Others
Tel. M/H Abandoned by other
Tel. M/H Abandoned by Others
Tel. M/H 135 (by Others)
139+43.48 Rt.
Telephone Repeater Station Not to be Disturbed
Underground Tel Cable
Field Drive
Boehm
County Ditch
12" Pipe
S 54°27'55" E
N 55°36'06" W
S 39°50'27" E
S 39°37'40" E
S 86°19'15" E
℄ I.R.-270
℄ Groveport Road
Dumped Rock 8'x6'x1.8' Deep
3.5± Ft. House
Leader Drive
10" water line
Leach Bed
Tel. Cable
Exist. ℄ Groveport Rd.
Temporary Guard Rail

I.P. 90° 33°19' P.I. Groveport Road Sta. 694+81.40 I.P. 270 Sta. 137+30 ℄ Groveport 90° 56°41' I.P. ℄ I.R. 270

PAVEMENT ELEVATIONS - GROVEPORT ROAD

Lt. Shoulder	Lt. Edge	Station	Rt. Edge	Rt. Shoulder	Lt. Shoulder	Lt. Edge	Station	Rt. Edge	Rt. Shoulder
754.21	754.71	139+25	754.96	754.66	746.68	747.21	142+50	748.79	748.79
753.85	754.35	139+50	754.68	754.45	746.05	746.56	142+75	748.16	748.16
753.62	754.12	139+65	754.50	754.31	745.42	745.95	143+00	747.53	747.53
753.41	753.91	139+75	754.39	754.22	744.93	745.45	143+25	746.77	746.75
752.86	753.37	140+00	754.09	753.96	744.42	744.94	143+50	746.02	745.94
752.27	752.78	140+25	753.76	753.67		744.44	143+75	745.26	
751.66	752.18	140+50	753.40	753.35		743.93	144+00	744.51	
751.01	751.53	140+75	753.01	753.00		743.53	144+20	743.91	
750.73	751.26	140+85	752.84	752.84		743.40	144+25	743.76	
750.40	750.93	141+00	752.51	752.51		742.77	144+50	743.05	
749.81	750.34	141+25	751.92	751.92		742.14	144+75	742.33	
749.50	749.73	141+50	751.31	751.31		741.51	145+00	741.61	
748.37	749.10	141+75	750.68	750.68		740.88	145+25	740.90	
747.94	748.47	142+00	750.05	750.05		740.76	145+30	740.76	
747.31	747.84	142+25	749.42	749.42					

+1.56% -2.52%
Bridge Limits 376.38'
Underground Tel. Conduit
Top Grate 146.59
8" Pipe Lt. NPSD = 520' 137+50
800 VG El. 760.60
Inlet 137+99 35.5 Lt. ℄ 746.30 Inv. 743.95
℄ 12" CP
12" Pipe Lt.
12" Tile
12" Tile Rt.
Tel. MH 139+20.5 61 Rt. Top 747.50 Inv. 738.05
Ex. Tel. MH 135+26.5 14 Rt. Top 749.53 Inv. 740.08
107'-15"@0.40%
27'-15"@1.10%
742.10
741.77
741.67
741.47
739+18.39 Lt. 741.63
12"@1.36%
Ex. Stone Culvert 8.5 high x 6 Owner 745.15 Lt.
Proposed 24" RCP Sanitary Sewer

GROVEPORT ROAD PLAN & PROFILE 134+50 TO

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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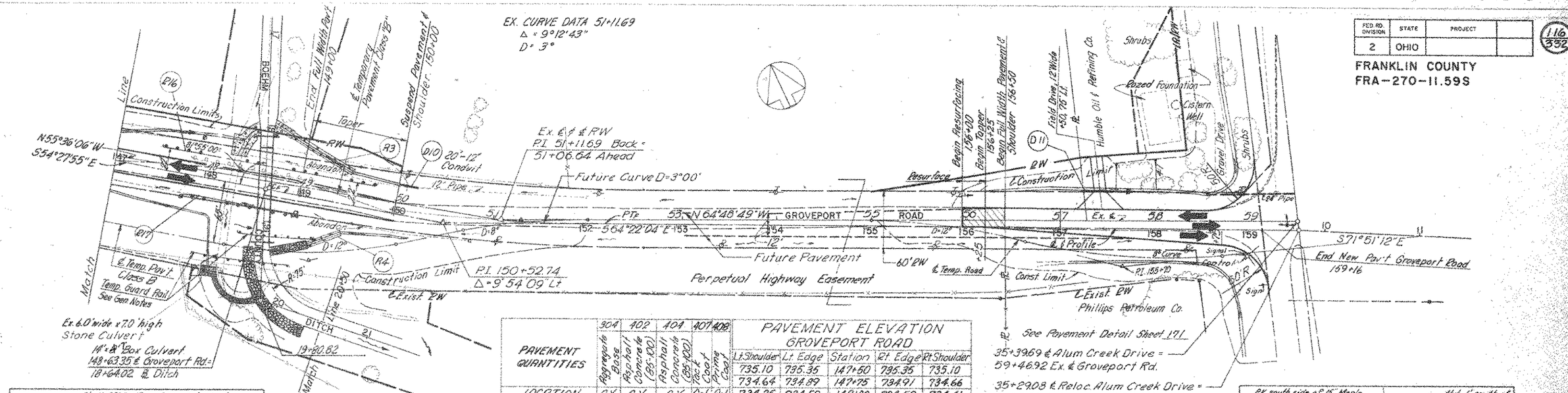
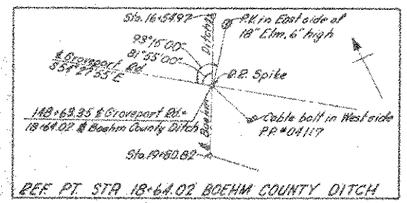
FRANKLIN COUNTY
FRA-270-11.59S





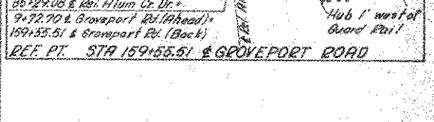
PAVEMENT QUANTITIES	304 Aggregate Base	402 Asphalt Concrete (PG64-22)	404 Asphalt Concrete (PG64-22)	407 Tack Coat	408 Prime Coat
LOCATION	C.Y.	C.Y.	C.Y.	Gal	Gal
129+25 to 129+75		2	2	22	
132+00.00 Lt.	12		4		28
133+07.00 Lt.	12		4		28
140+25.00 Rt.	38		5		32
143+00.00 Lt.	14		4		28
156+00 to 156+25			1	3	
156+25 to 156+50			1	3	
156+25 to 156+50			2	6	
157+50.00 Lt.	20		4		28
TOTAL	96	2	27	34	144

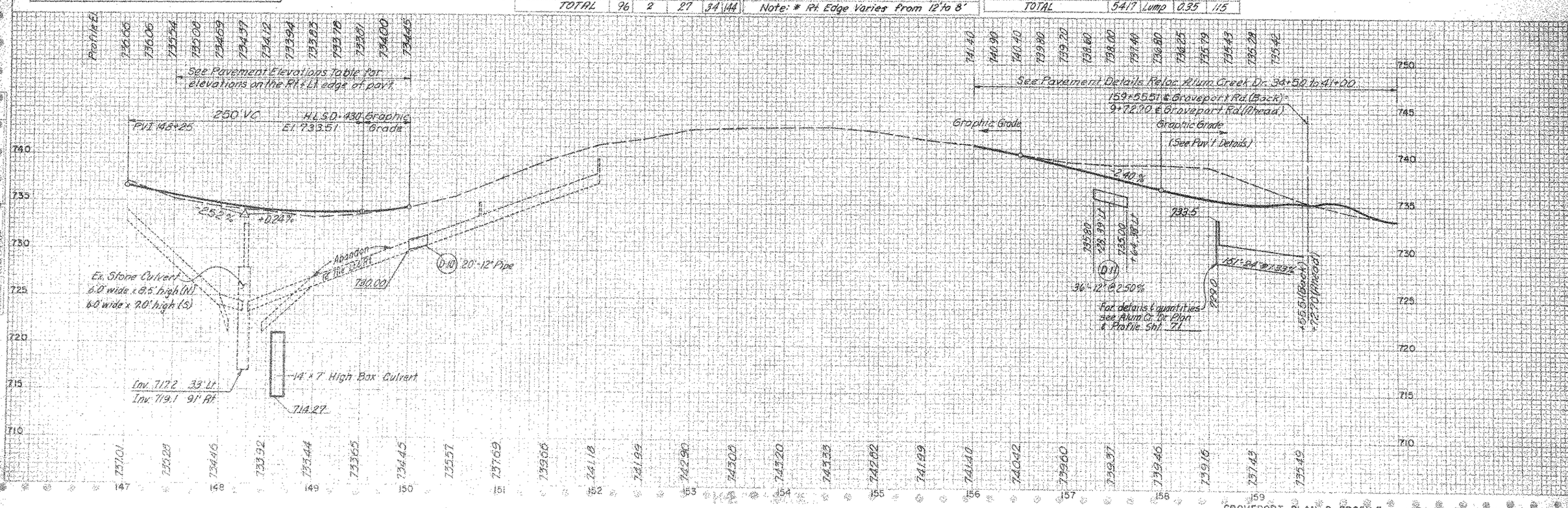
Prev. Sheet / This Sheet

PAVEMENT ELEVATION GROVEPORT ROAD					
Lt. Shoulder	Lt. Edge	Station	Rt. Edge	Rt. Shoulder
735.10	735.35	147+50	735.35	735.10
734.64	734.89	147+75	734.91	734.66
734.26	734.50	148+00	734.58	734.41
733.93	734.18	148+25	734.32	734.15
733.68	733.93	148+50	734.12	733.95
733.50	733.75	148+75	733.99	733.82
733.39	733.64	149+00	733.94	*733.82
733.34	733.59	149+25	733.96	*733.90
733.33	733.58	149+50	734.04	*734.04
733.45	733.70	149+75	734.30	*734.30
733.83	734.08	150+00	734.62	*734.62

Note: * Rt. Edge Varies From 12' to 8'

TEMPORARY PAVEMENT & ROADS	615 Class B	615 Temp. Road	616 Calcium Chloride	410 Traffic Compacted Surface
LOCATION	S.Y.	Lump	Tons	C.Y.
127+90 to 152+02 Rt.	5250			
147+50 to 149+70	167			
155+00 to 159+00 Rt.		Lump	0.35	115
TOTAL	5417	Lump	0.35	115





SHEET NO.	STATE	PROJECT	
2	OHIO		

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FRANKLIN COUNTY
FRA-270-11.59S

PARTIAL SECTION@133+50

Res.
4:1
4:1
749.5
Begin Ditch

Res. Drive +07
10.0%
750.67
753.52

133+07 PARTIAL SECTION
751.1

15" @ 742.77
Ex. 8"

753.60
133+00
751.1

Std. N°2-2-8 C.B.
35' Lt. & Sta. 132+50
Top Grate = 750.00
8:1
746.5
4:1
4:1
24:1
℄ Temporary Pavement
Approx. Grade 750.00

752.95
132+50 PARTIAL SECTION
751.4

Res. Drive +00
6.20%
752.24
743.00 EC.B
751.00

752.43
132+00
751.7

Ex. 8" @ 746.5
747.5
℄ Approx. Grade 750.00

Std. N°2-2-8 C.B.
35' Lt. & Sta. 131+25
Top Grate = 748.8
131+00, 748.9
6:1
746.75
743.50 EC.B

751.80
131+00
751.7

748.0
℄ Temporary Pavement
Approx. Grade 751.00
℄ Approx. Grade 750.6

6:1
4:1
4:1
748.5

751.54
130+00
751.2

Ex. 8

Begin Excavation
@ 129+75

129+75

129+50
751.3

129+00
751.3

128+00
751.3

Add for Drive
@ 133+07 Lt.

Add for Drive
@ 132+00 Lt.

	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
			0	5
	60	122		
			219	256
			0	3
	58	16		
			193	56
	46	14		
			150	81
	35	30		
			16	14
129+75	0	0		

GROVEPORT ROAD X-SECTIONS 128 TO 133

STATE	PROJECT
OHIO	

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FRANKLIN COUNTY
FRA-270-11.59S

STATION	DIST.	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
Add for Drive @ 140+25	66				
				0	160
140+00	180	86	310		
	900			124	607
139+50	144				
	480	48	346		
139+20 Ahead	144			53	384
139+20 Back	98			0	94
139+12 Lt. to 139+50 Lt.	18	48	346		
139+12 Rt. to 139+20 Rt.	316			0	42
138+92	31			74	0
	105				
128+00 to 135+70	3476			1099	2916
135+50 Lt. to 135+70 Lt.	40			0	54
135+00 Rt. to 135+47 Rt.	88			0	268
135+50 Lt.	44	12	174		
Left Section Ahead	261			19	350
135+00 Ahead	50	8	204		
Full Section Back	170	72	386		
	1878			259	1159
	168	68	240		
	1767			237	670

Add for Drive @ 140+25

Drive +25 753.76

+25 - 753.10

Field Drive @ 140+25

℄ Temp. Pavement

746.8

Begin Ditch @ 139+90 ℄ 745.26

753.73
140+00
747.9

Limit of Section

Tel. Cable Boxes for Repeater Station (Do not Disturb)

Partial Section Limits 138+92 to 139+20

747.0

744.30

Ex. 12"

12" Tile

754.54
139+50
747.8

℄ Tel. M.H. (By Others) +43

Temporary Guard Rail for Duration of Temporary Pavement

Tel. M.H. +20.5

745.7

PARTIAL SECTION @ 138+92

Earthwork Quantity
139+12 Lt. to 139+50 Lt. 740

Partial Abutment Section @
139+20 Rt. - 139+50 Rt. 760

Earthwork Quantity
139+12 Rt. to 139+20 Rt.

Partial Section Earthwork Quantity 750
138+92 Rt. to 139+20 Rt.

BRIDGE LIMITS 135+41.81 to 139+18.19

Earthwork Quantity
128+00 to 135+70
Total to Sub Summary

Std. N° 2-2-8 C.B.
39' Lt. ℄ 135+58
Top Grate = 746.59

746.5

741.77
℄ C.B.

LEFT 135+50
756.46
749.40

Tel. M.H. +26.9

Earthwork Quantity
135+50 Lt. to 135+70 Lt.

Earthwork Quantity
135+00 Rt. to 135+47 Rt.

℄ 749.0

135+00 Ahead

Full Section Back

℄ 742.0 15"

D6

D3

℄ Tel. M.H. (By Others)

Approx. Grade 749.8

756.18
135+00
750.0

755.08
134+00
750.9

745.5

746.0

℄ 742.4

Ex. 8"

GROVEPORT ROAD X-SECTIONS 134 TO 140

FED. AID DIVISION	STATE	PROJECT	
2	OHIO		

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FRANKLIN COUNTY
FRA-270-11.59 S

Drawer 28

757-66

(2) Drawer 28

SEEDING

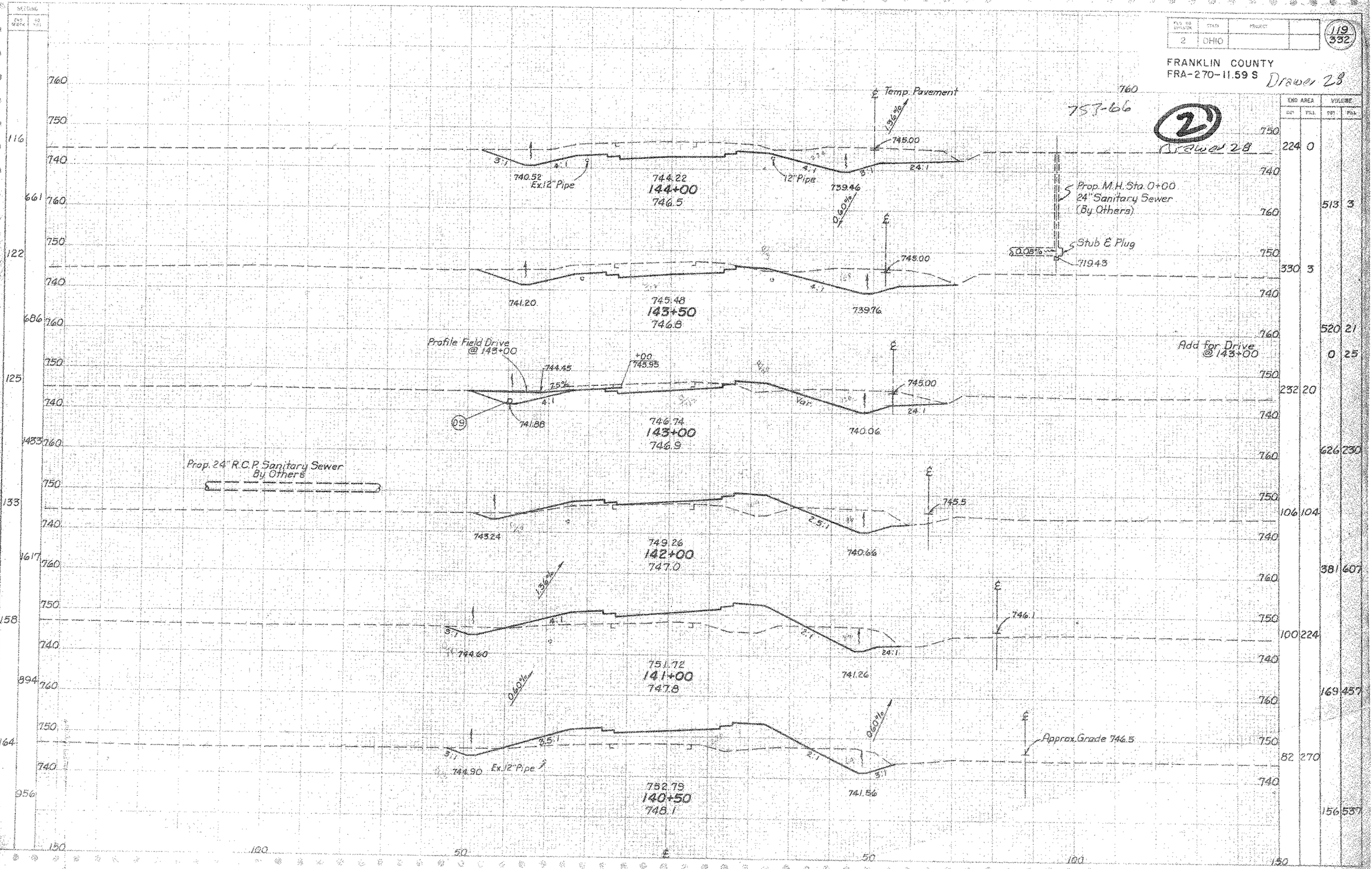
CUT SQ YDS	FILL SQ YDS
116	661
122	686
125	1433
133	1617
158	894
164	956

END AREA

CUT	FILL
224	0
330	3
232	20
106	104
100	224
82	270

VOLUME

CUT	FILL
513	3
520	21
0	25
626	230
381	607
169	457
156	537



GROVEPORT ROAD X-SECTIONS 140+50 TO 149+

FED. NO. DIVISION	STATE	PROJECT	
2	OHIO		

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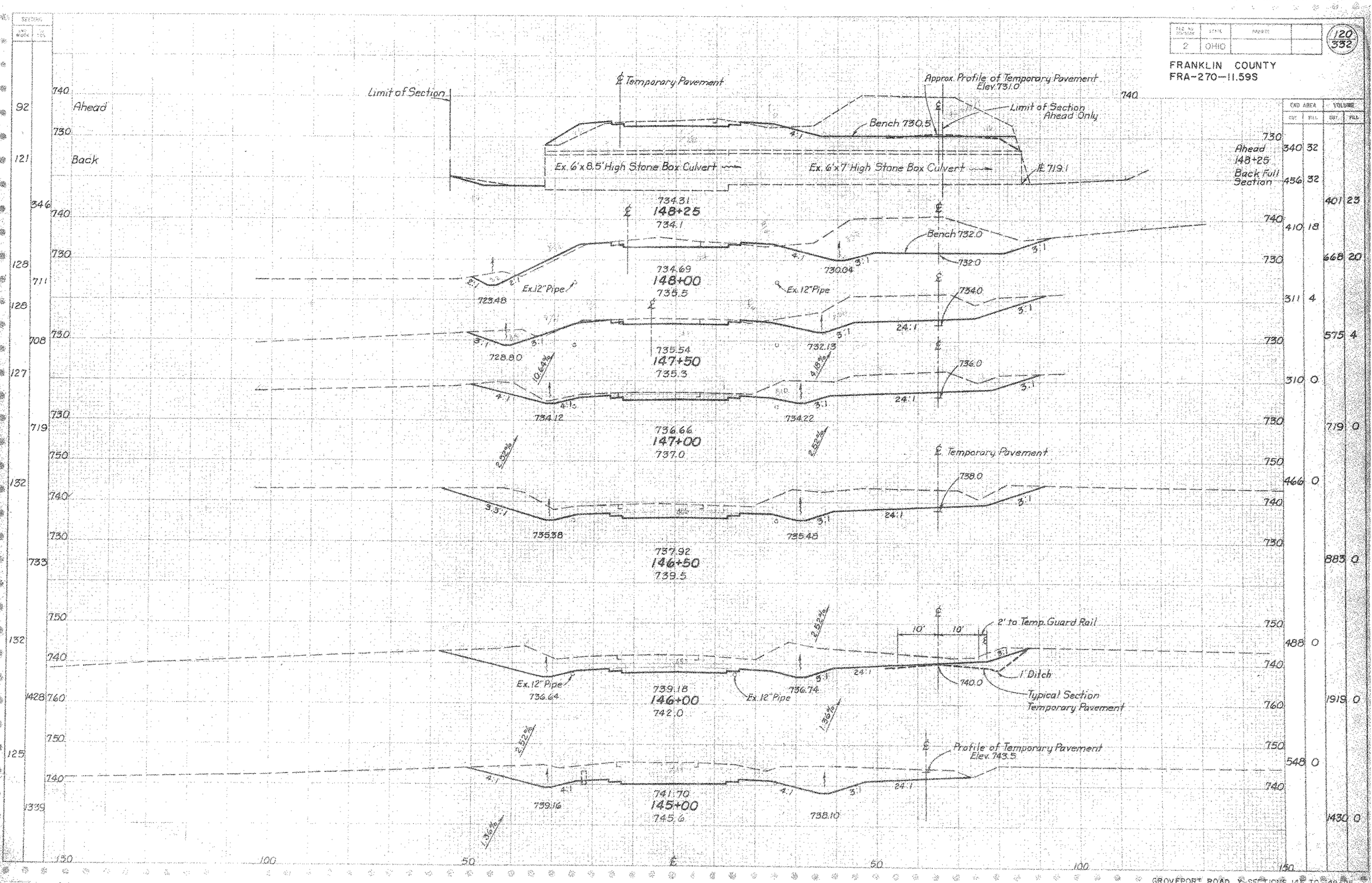
FRANKLIN COUNTY
FRA-270-11.59S



					END AREA		VOLUME	
					CUT	FILL	CUT	FILL
92	740	Ahead						
	730				730			
121		Back			Ahead 148+25	340	32	
	346				Back Full Section	456	32	401 23
	740				740	410	18	
128	730				730			668 20
	711					311	4	
128								
	708				730			575 4
127	730					310	0	
	719				730			719 0
	750				750	466	0	
132	740				740			
	730				730			883 0
	733							
	750				750	488	0	
132	740				740			
	760				760			1919 0
128	750				750	548	0	
125	740				740			
	739							1430 0
	150	100	50	℄	50	100	150	

SHEET NO.		
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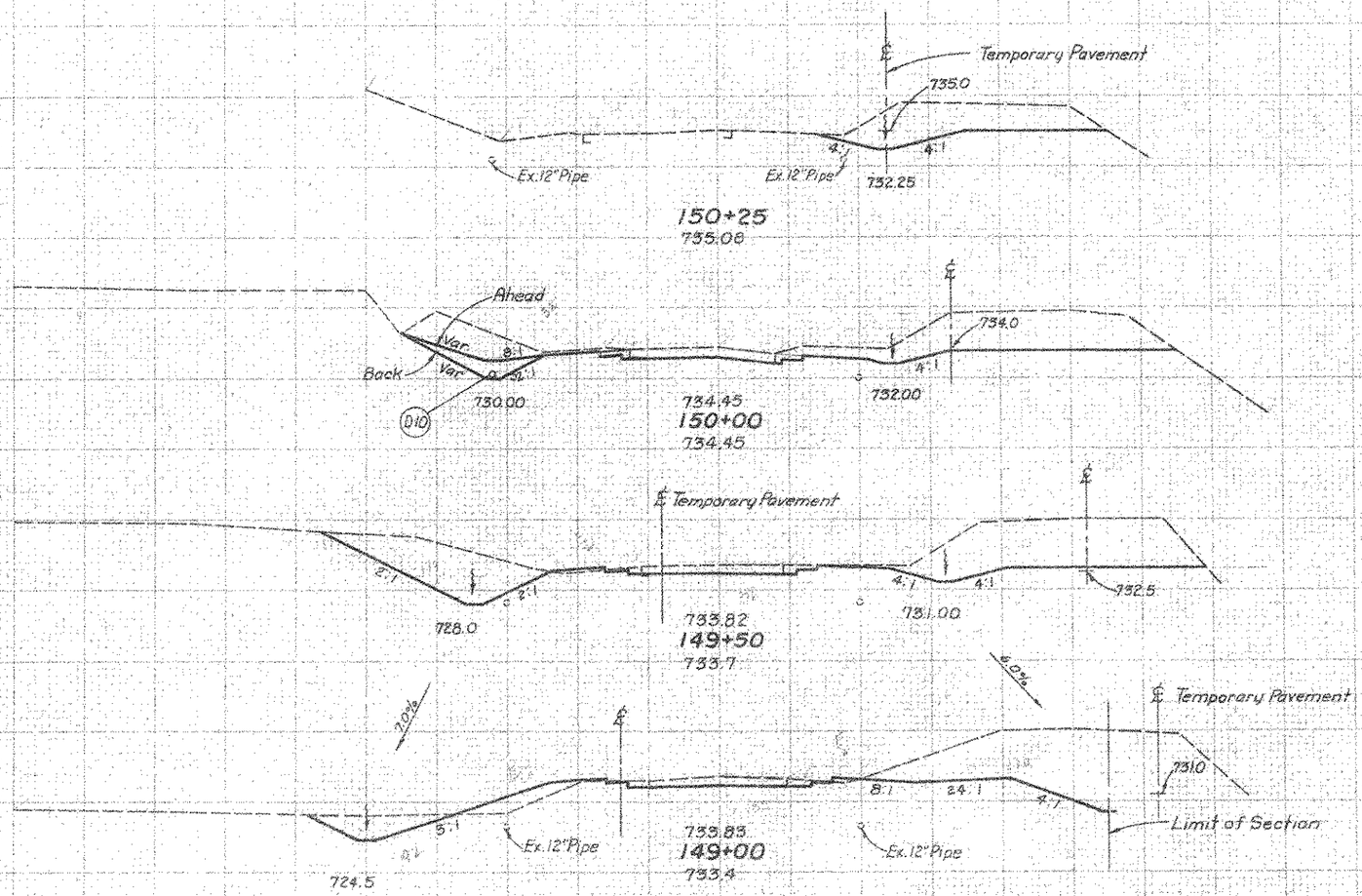
FRANKLIN COUNTY
FRA-270-11.59S

For Quantities:
End Earthwork @ 150+50

			END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
		Earthwork Quantity 138+92 to 150+50 Total to Sub Summary			1792	3323
6234	138+92 to 150+50					
		740				
0	150+50	150+50	0	0		
78					67	0
		730				
56	150+25	150+25	144	0		
203					203	0
		740				
90	Ahead	Ahead	294	0		
90	Back	Back	326	0		
130		730				
556					737	2
		740				
110		740	470	2		
150		730				
572					702	26
96		740	288	26		
130		730				
120		720				
783					872	81



FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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FRANKLIN COUNTY
FRA - 270 - 11.59 S

SECTIONS		
CUT	FILL	
3011		156+00 to 158+90
103	458	158+90
103		158+50
	661	
135		
	636	
94		
	503	
87		
	497	
92		
	256	
0		

Limit of Section

24:1 4:1 4:1 4:1 4:1

735.6 733.8 735.79 158+50 739.2 733.0

Earthwork Quantity
156+00 to 158+90
Total to Sub Summary

For Earthwork Quantities
158+50 - 158+90

7400 12:1 737.0 4:1 734.0 733.5 736.80 158+00 739.5

2.50%

End Drive 80' 741.19

Profile Field Drive @ 157+50

737.19 737.94 8.0% 735.25

738.0 Var. 734.5 738.00 157+50 739.4

Add for Drive @ 157+50

Temporary Roadway 739.0 4:1 4:1 735.0 736.50 739.20 157+00 739.6

1.50%

740.0 4:1 4:1 8:1 24:1 737.75 740.40 156+50 740.4

741.7 741.40 156+00 741.4

	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
Total to Sub Summary	740		3003	96
158+90	538	0		
	730			797 0
For Earthwork Quantities 158+50 - 158+90				
158+50	538	0		
				950 0
	740			
	488	0		
	730			
			687	7
Add for Drive @ 157+50			4	44
	740			
	254	8		
	730			
				344 15
	740		118	8
	730			
				165 19
	740		60	12
	730			
				56 11
	740		0	0
	730			

80 60 40 20 ℄ 20 40 60 80

GROVEPORT ROAD X-SECTIONS 156+00 TO 158+90

FED. NO. DIVISION	STATE	PROJECT	
2	OHIO		

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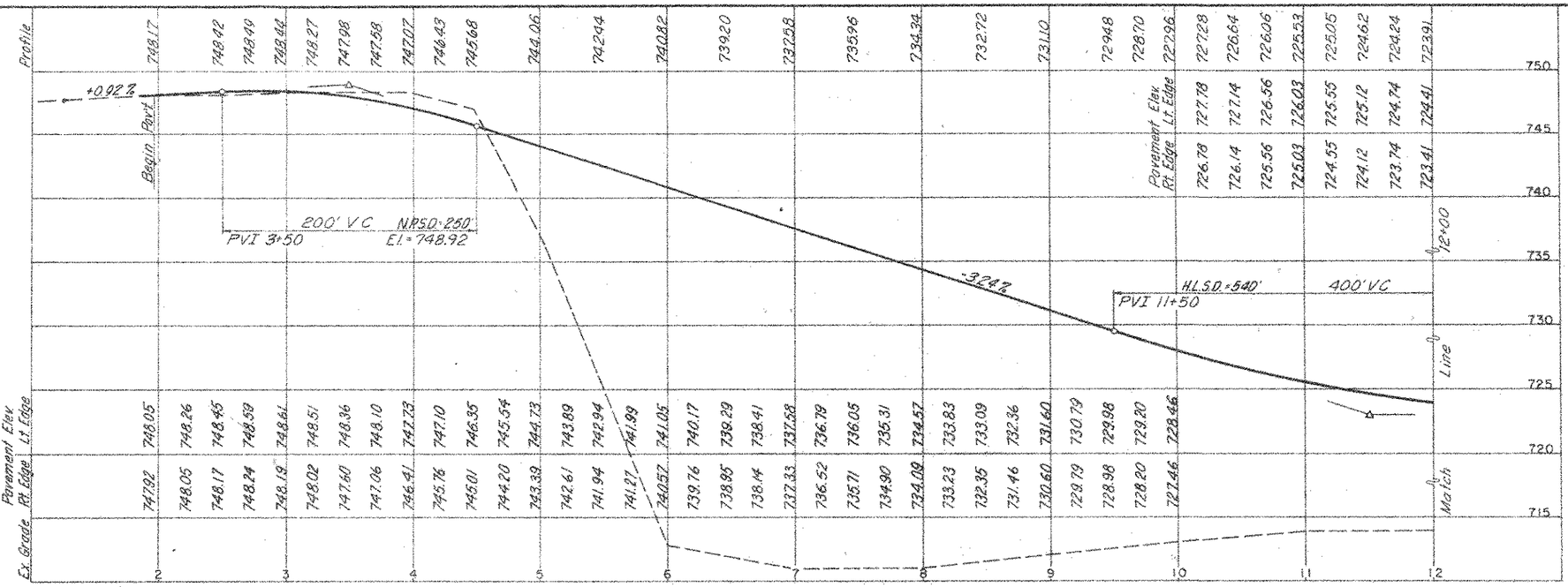
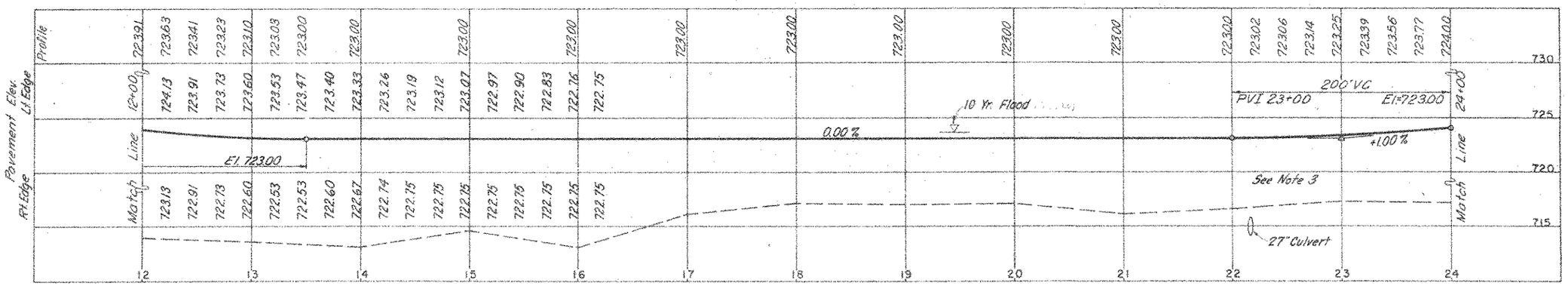
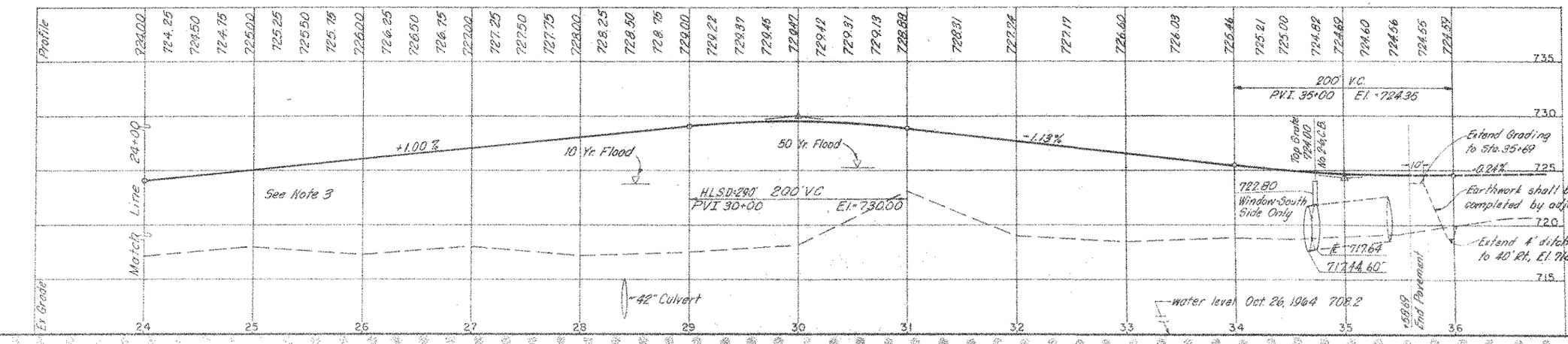
FRANKLIN COUNTY
FRA-270-11.59S



NOTE:
1. See Geometric Layout for alignment and layout data
2. For plan & quantities see Plan & Profile Sheet 51 on Ramp V line sheets; 44, 45, & 46 I.R. 270 700+00 to 730+00 Sections included on next sheets
3. See Sheet 52 Ramp V for additional pavement elevations on superelevated sections

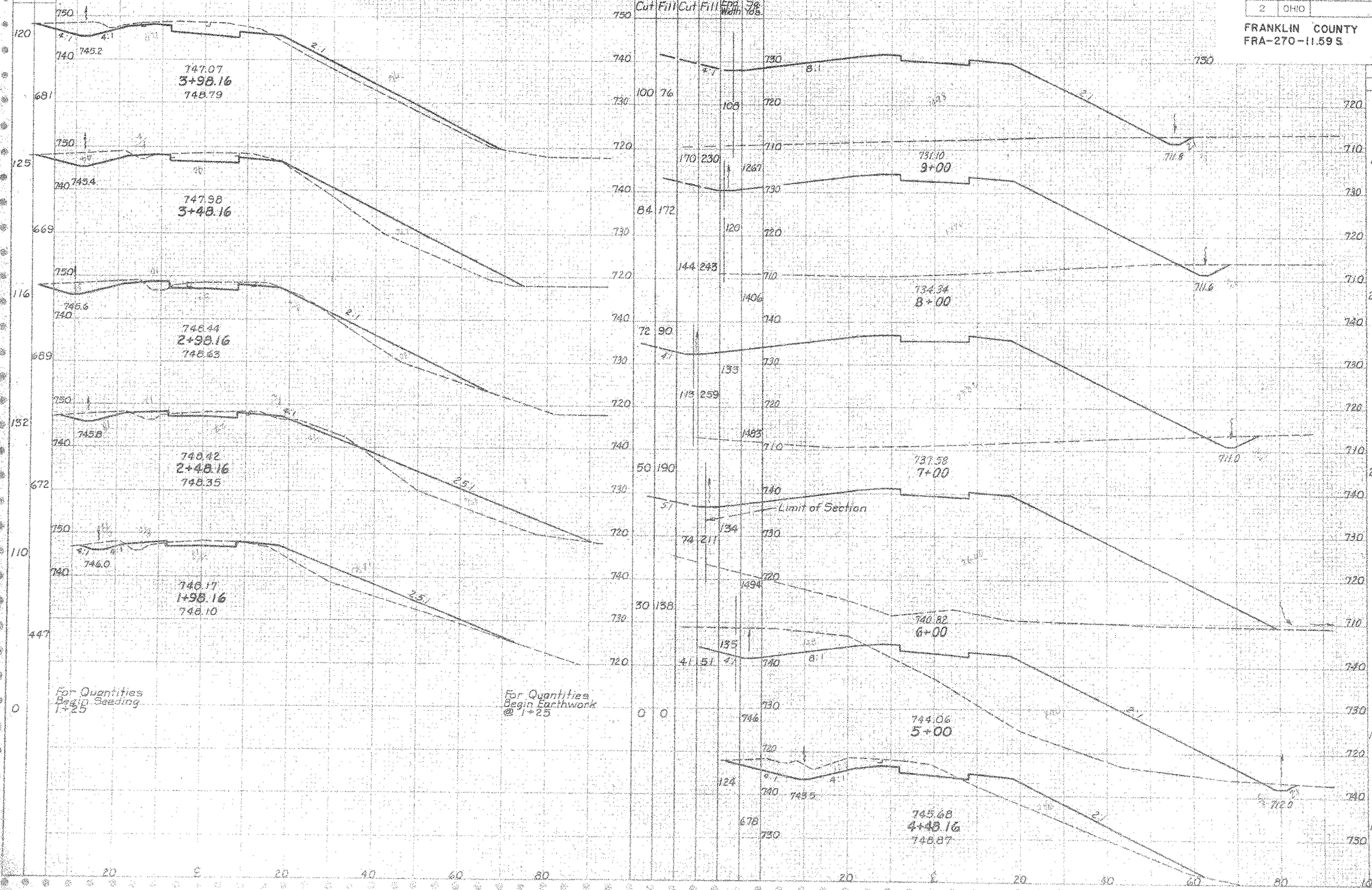




FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

$\frac{124}{332}$

FRANKLIN COUNTY
FRA-270-11.59 S



For Quantities Begin Seeding 1+25

For Quantities Begin Earthwork @ 1+25

SEEDING End Width	Sq Yds
120	
	681
125	
	669
116	
	689
132	
	672
110	
	447
0	

End Area Cut	End Area Fill	Volume Cut	Volume Fill	Seeding End Width	Seeding Sq. Yds.
100	76			108	
		170	230		1267
84	172			120	
		144	243		1406
72	90			133	
		113	259		1483
50	190			134	
		74	211		1494
30	138			135	
		41	51		746
0	0			124	
					678

END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
8	1498		
		52	6257
20	1870		
		74	7781
20	2332		
		37	9135
0	2600		
		289	6570
156	840		
		273	985
128	186		
		211	243

SEEDING	
SEC WIDTH	SQ. YDS.
100	1067
98	1050
94	1072
95	1144
98	

End Area		Volume		Seeding	
Cut	Fill	Cut	Fill	End Width	Sq. Yds.
			241		
				74	
4	666				894
		41	2544		
				87	
18	708				944
				83	
		70	2867		
					933
				85	
		20	840		
					972
		67	3619		
				90	
		16	1114		
					1044
		44	4837		

Add for Drive @ 13+00

721.77

Access Drive C. H. Baker

12.0%

712.90

723.10
13+00

712.60

723.91
12+00

Limit of Section

712.40

725.53
11+00

712.10

727.96
10+00

60 40 20 ℄ 20 40

FED. AID PROJECT	STATE	PROJECT	
2	OHIO		

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FRANKLIN COUNTY
FRA-270-11.59S

END AREA		VOLUME	
CUT	FILL	CUT	FILL
46	264		
		85	1189
0	378		
		19	1811
10	600		
		30	2070
		19	2206
4	672		
		15	2478

723.00
18+00

713.00

723.00
17+00

711.00

723.00
16+00

712.00

723.00
15+00

712.30

723.00
14+00

712.60

60 40 20 ℄ 20 40 60

SAMSON FRONTAGE ROAD X-SECTIONS 10 TO 18

SHEET NO.	STATE	PROJECT	
2	OHIO		

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FRANKLIN COUNTY
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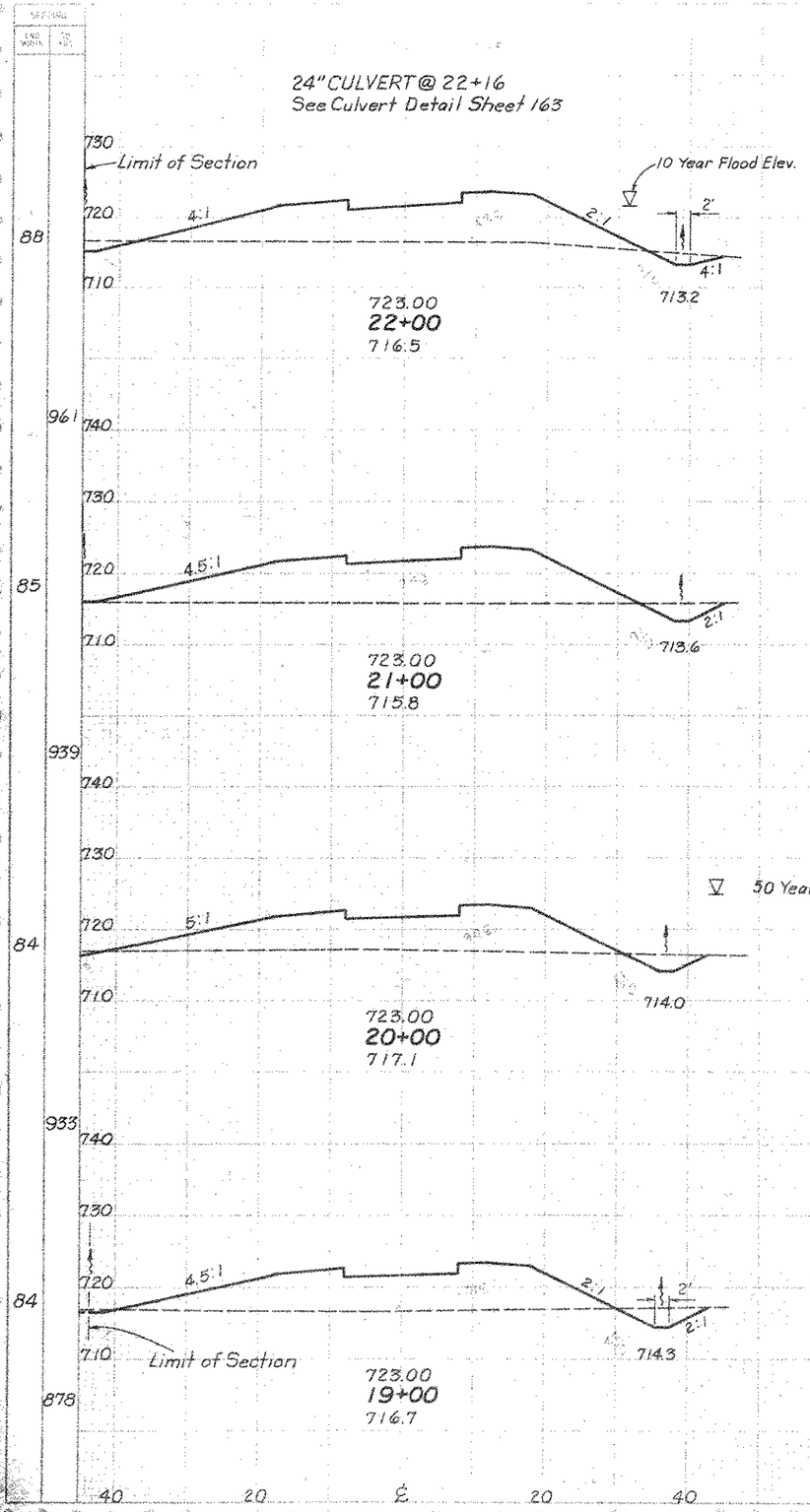
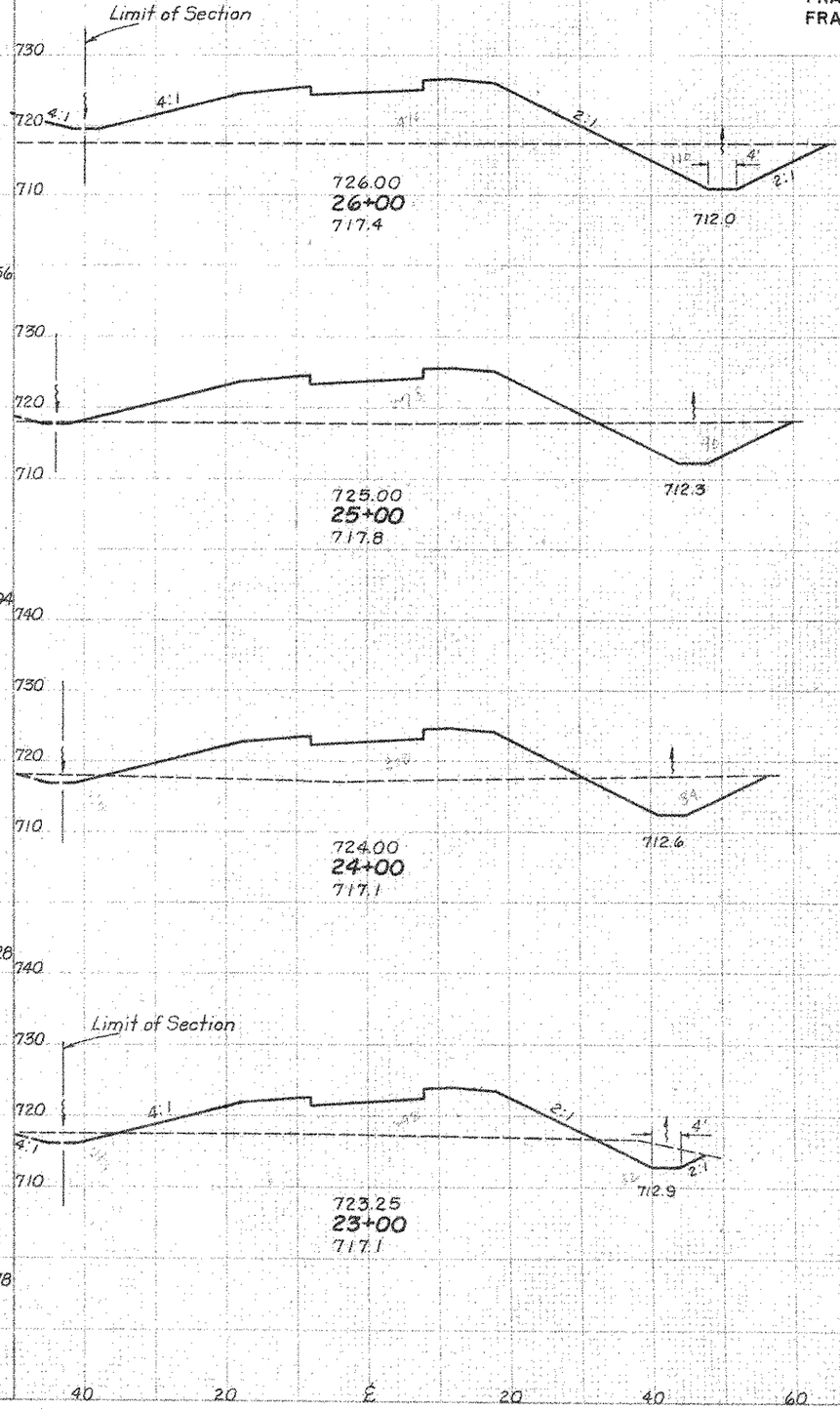
24" CULVERT @ 22+16
See Culvert Detail Sheet 163



▽ 50 Year Flood Elev.

End Area Cut	End Area Fill	Volume Cut	Volume Fill	Seeding End Width	Seeding Sq. Yds.
					1156
18	328			108	
		63	1274		1094
16	360			100	
		67	1233		1028
20	306			97	
		81	1141		978
24	310			88	
		130	1063		



END AREA Cut	END AREA Fill	VOLUME Cut	VOLUME Fill
110	470		
			372
91	378		
			331
88	320		
			231
37	292		
			102

40 20 ℄ 20 40 60 80

SAMSON FRONTAGE ROAD X-SECTIONS 19 TO 26

SHEET NO.	STATE	PROJECT	
2	OHIO		

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Cut	Fill	Cut	Fill	End Area Width	Seeding Sq. Yds.
				35625	1+25 to 36+00
				90	36+00
				310	
				90	35+58.69=35+69
				103	
		189	2304	90	
				74	
		96	654		
				473	
		304	2437	71	
		68	662		
		259	2356		
				61	
Ahead		72	610		
Back		72	610		
				51	
		315	2122		
				533	
		98	536		
				45	
		385	1863		

Earthwork Quantity 1+25 to 36+00 Total to Sub Summary	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
				4703
				84506

End Sections 36+00	730	0	0	2 158
35+58.69=35+69 Ahead	4	276		2 105
Back	4	276		
				11 598
	6	274		
				22 1267
				17 1604
	6	410		
				3 456
				13 1993
	4	620		
				19 2241

730 / 720 / 710 — 4:1 — 721.0 — 2:1 — 5' — 2.5' Typical — Water Level October 26, 1964 — ▽ 50 Year Flood Elev. 725.5 — ▽ 10 Year Flood Elev. 722.7 — 728.88 — 31+00 — 722.9

733 / 720 / 710 — 5:1 — 2:1 — 721.00 — 713.00 — 713.5 — 710.8 — Ditch Profile 30+20 710.00 — 0.30% — 729.47 — 30+00 — 718.0

740 / 730 / 720 / 710 — 894 — 4:1 — 2:1 — 721.0 — 3' — 711.1 — 729.00 — 29+00 — 717.5

PARTIAL SECTION @ 29+50
(Begin Dumped Rock Channel Protection @ Big Walnut Creek)

60 80

740 / 730 / 720 / 710 — 906 — Ahead — 42" CULVERT @ 28+42±
See Culvert @ Sta 718+00 TR 270 Sheet #161 — 4:1 — 8:1 — 721.0 — 4' — Dumped Rock Channel Protection — 711.4 — 2.5' Typical — 728.00 — 28+00 — 717.2 — Back — Limit of Section

740 / 730 / 720 / 710 — 1172 — 4:1 — 2:1 — 4' — 727.00 — 27+00 — 717.9 — 1194 — 711.7

730 / 720 / 710 — Ahead — 4:1 — 8:1 — 4:1 — 8:1 — 4:1 — 721.0 — 0.33% — Profile of Ditch @ 35+95 (not required if adjacent project completed) — 724.56 — 35+58.69 — 718.7 — Back — Limit of Section — Ditch shall not be performed if completed by adjacent project

730 / 720 / 710 — 724.69 — 35+00 — Culvert @ Sta. 35+65 See Culvert Detail Sht # 162

733 / 730 / 720 / 710 — 622 — 12:1 — 4:1 — 8:1 — 4:1 — 8:1 — 4:1 — 721.0 — 725.46 — 34+00 — 718.8 — 726.60 — 33+00 — 718.6 — Dumped Rock Channel Protection — 2.5' Typical — Limit of Section

730 / 720 / 710 — 533 — 4:1 — 4:1 — ▽ 50 Year Flood Elev. — 721.0 — Water Level October 26, 1964 — 722.74 — 32+00 — 719.0

40 20 ℄ 20 40 60 80

SAMSON FRONTAGE ROAD X-SECTIONS 27 TO 35+5

2	OHIO		

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Water Treatment Plant & Well Fields (Village of Obetz)

Pump House 46.49 — 0+80.63 Stegner St. = 1+00 Stegner Rd. — 143°58'00" — ℄ Stegner St. N03°14'09"E — 38.85 — 126°43'30" — 087 Pole — ℄ Stegner St.

REF. PT. 0+80.63 STEGNER ST.

℄ Stegner St. N03°14'09"E — 0°19'00" — Res. — 96.84 — 95°02'30" — 93°39'09"W — 46.77 — 87°20'00" — 46.64 — 180°52'30" Res. — ℄ P.T.

REF. PT. PI. STA 3+66.85 STEGNER ST.

Gar. — 82.63 — N96°25'18"W — ℄ Stegner St. 89°00'00" — N03°33'09"E — 89°58'27" — 8+51.34 Howard Rd. = 10+00 Stegner St. — 65.10 — 90°02'00" — Res. — 75.05 — ℄ Howard Rd.

REF. PT. 10+00 STEGNER ST.

℄ Open Ditch

Park — P.I. 7+26.33 — Rt. Top Rim 742.96 — Rt. Invert 740.53 — Pvt. Line — Block Res.

Park — W. & W.G. Stratton — Top Rim 743.10 — Invert 740.64

1 Story Frame Res. — Res. Drive 3-90, 20' L.F.

PI = 3+66.85
Δ = 0°19'00" Rt.

5+00 Stegner Road = 0+80.63 Stegner Street

Limit of Construction along R/W limits unless otherwise noted.

21" Storm Sewer See X-Section

(D2)

Edith M. Dame — Block Gar. — Gravel Dr.

Std. HW-E

8+51.34 Howard Road 10+00 Stegner Street

1 Story Block Bump House — B.M. — Gravel Drive — 25' Rad. — Std. HW-E N03°14'09"E — R/W — STEGNER STREET — R/W — Std. HW-E N03°33'09"E

Begin Work & Pav't 0+95.50

H. Crosby

(D1) 15" Conduit See X-Section

Swale

Res. Drive 3-90, 20' L.F.

1 Story Fr. Res. — Fr. Gar.

(W1)

Conc. Block Gar.

Swale

End Work 9+90

Edward C. & D.B. Wolford

Res.

15" Conc. Pipe

Belva Large

Charles A Cramer

Rt. Top Rim 745.73 — Rt. Invert 743.62 — 2.68 — 15" Conc. Pipe — HOWARD ROAD — N86°25'18"W — 1.0

Top Rim 745.83 — Invert 743.71

Clarence E. & Betty F. Parsley — Res.

Donald Walters

Sec. 24 — Sec. 13 — STEGNER ROAD — Ex. Fire Hydrant — Ex. 8"W — Ex. 6"W — 60

Silas & Ruth Petty

W. H. & Hazel Burton

Gravel Drive

Note: See Schematic Plan & Profile sheet #5 for location of Stegner Street.

DRAINAGE

		602	603		604
		Concrete Masonry	15" Conduit Type B, Class B	21" Conduit Type B, Class B	Standard No. 2.2 A Catch Basin
Code	Location	C.Y.	L.F.	L.F.	Ea.
D1	1+20 ℄	0.26	48		1
D2	7+85 ℄	0.36		50	1
	Total	062	48	50	2

Item 814: W-1 details & quantities shown on Water Line Plan Sh. #130

PAVEMENT

	304		404	
	Aggregate Base		Asphaltic Concrete (PS-1.00)	
LOCATION	C.Y.		C.Y.	
3+90 Lt.	10		4	
3+90 Rt.	10		4	
TOTAL	20		8	

B.M. El. 745.19
N.E. corner of conc. slab to Supply entrance to Water Plant.

B.M. El. 747.17
S. corner of conc. slab to Res. #2640 Howard Road.

744.50 744.53 744.66 744.78 744.91 745.03 745.16 745.28 745.28 745.28 745.28 745.28 745.18 745.08 744.98 744.88 744.78 744.68 744.58 744.50

755 750 745 740 735

Top Grate 742.00 +20.23 Rt.

+0.25% +0.00% -0.20%

242.45 Top Grate +85.23 Rt.

2" Gas 15" #741.89 15" #741.34

739.90

New 8" Water Line

Ex. 8"W 740.2

738.50 EC.B.

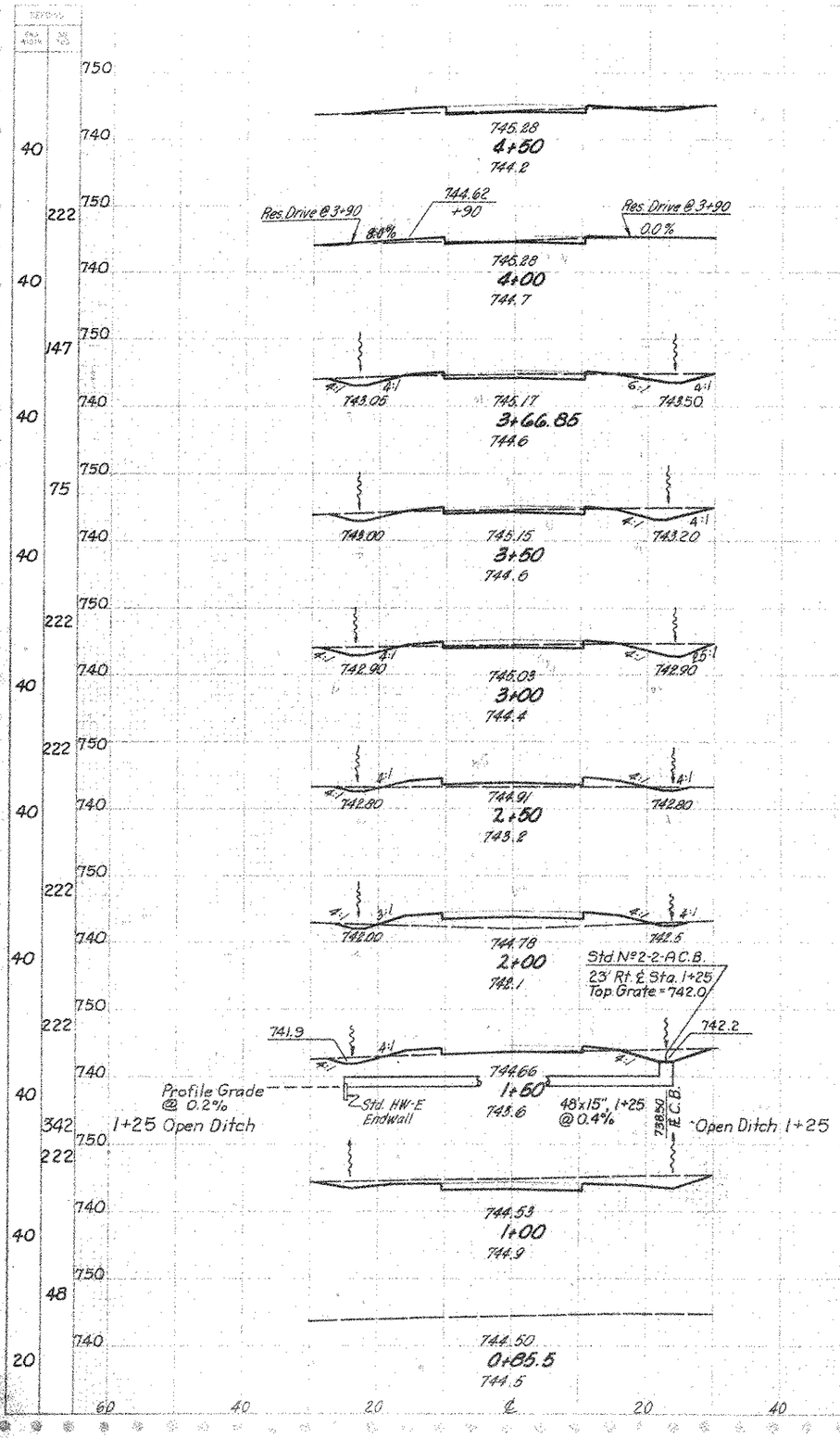
736.0 14" RC.

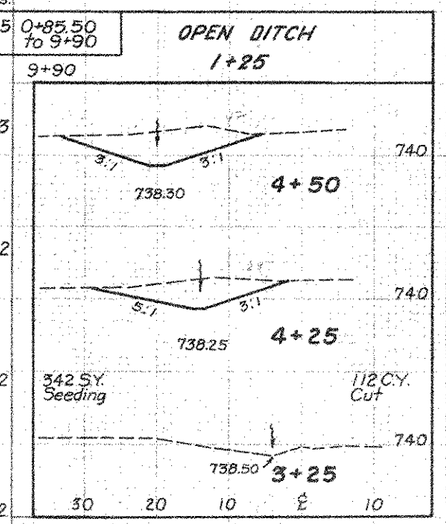
Ex. 6"W 739.86

744.9 743.6 742.1 743.2 744.4 744.6 744.7 744.2 744.5 744.9 744.7 744.6 744.2 743.0 744.3 744.0 744.5 744.7 744.5

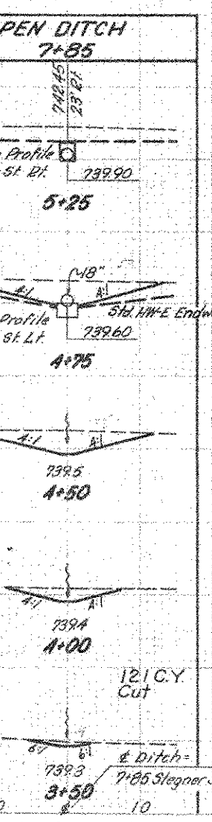
0 1 2 3 4 5 6 7 8 9 10

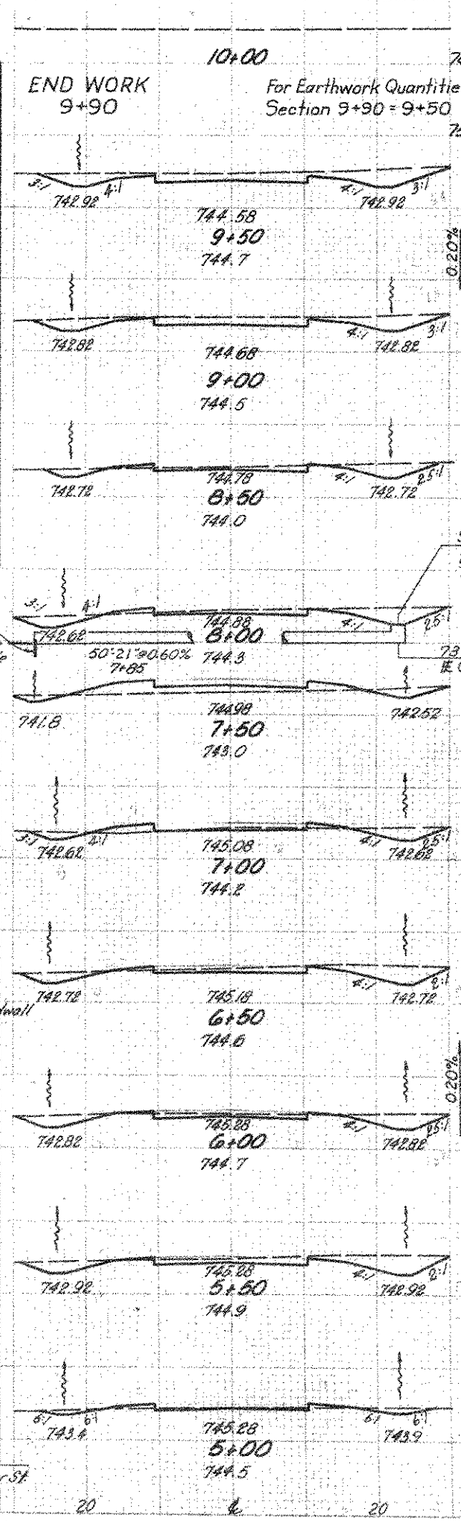
End Area		Volume		Seeding
Cut	Fill	Cut	Fill	End Width / Sq. Yds.
				4615 0+85.50 to 9+90
17	5			20
		19	9	133
4	5			40
		21	4	222
30	2			40
		17	1	222
26	2			40
		49	4	318
27	2			222
		28	33	40
				222
		3	34	40
		6	91	222
		3	64	40
		13	65	222
		11	6	40
		112		222
		88	6	40
		84	0	222
		23	0	40
		0	0	222
				40





7+85 Open Ditch





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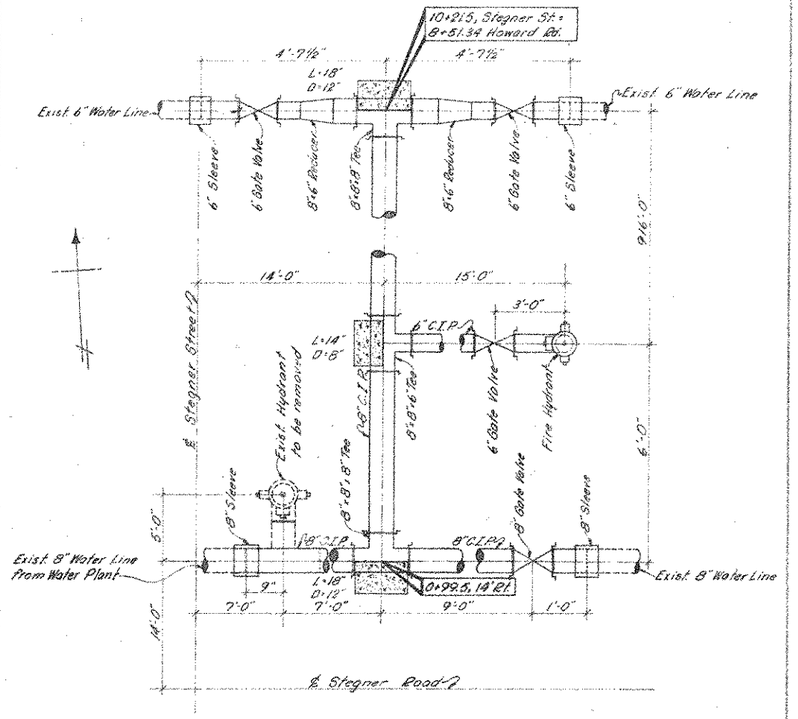
Earthwork Quantity
0+85.50 to 10+00
Total to Sub Summary

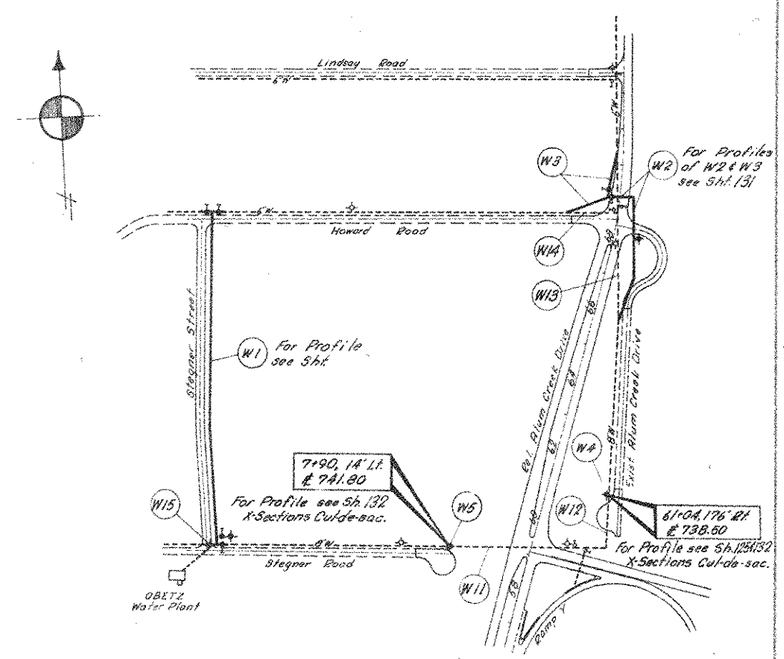
	END AREA Cut	END AREA Fill	VOLUME Cut	VOLUME Fill
			1311	335
9+90	64	0		
			95	0
9+50	64	0	122	0
9+00	68	0		
			94	2
	34	2		
			73	5
	45	3		
Open Ditch 7+85			121	
			53	42
	12	42		
			31	47
			21	9
			66	9
	50	1		
			85	3
	42	2		
			96	3
	62	1		
			70	4
	14	3		
			29	7

STEGNER STREET X-SECTIONS 0+85.5 TO 10+00

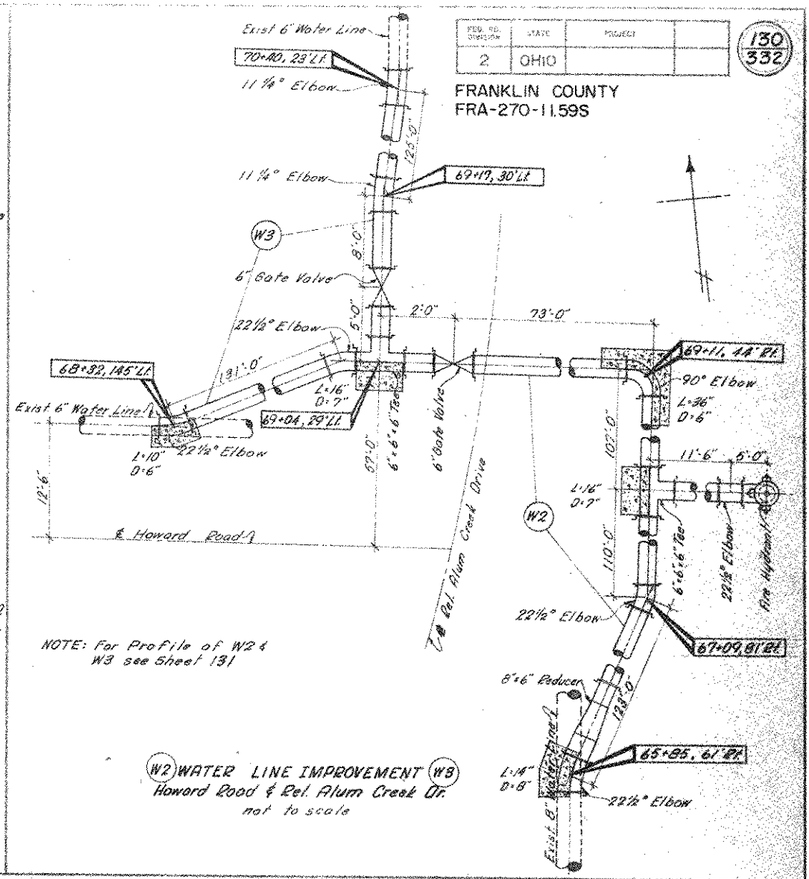
WATER LINE PLANS



WATER LINE IMPROVEMENT (W1)
Stegner Street
not to scale



WATER LINE
RELOCATION PLAN
Scale- 1"=200'



NOTE: For Profile of W2 & W3 see Sheet 131

(W2) WATER LINE IMPROVEMENT (W3)
Howard Road & Rel. Alum Creek Dr.
not to scale

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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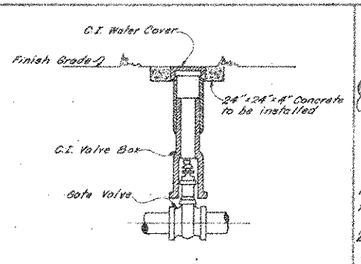
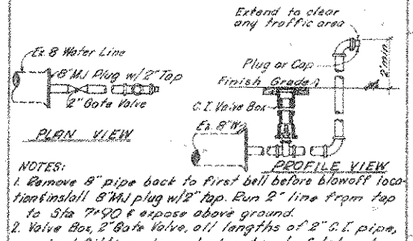
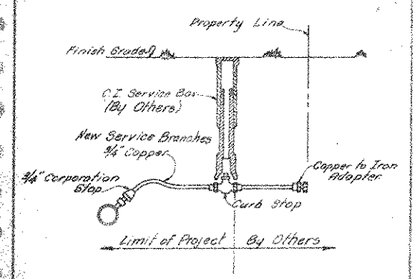


Typical Detail
VALVE & VALVE BOX

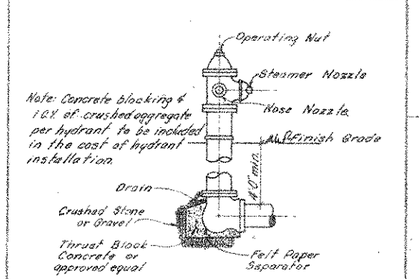


NOTES:
1. Remove 8" pipe back to first bell before blowoff location is installed. 8" MJ plug w/2" tap. Run 2" line from tap to Sta 7+90 & expose above ground.
2. Valve Box, 2" Gate Valve, all lengths of 2" C.I. pipe, required fittings, tapped plug, & cost of labor to be included in the cost of the Blowoff Assembly.

Details
BLOWOFF ASSEMBLY

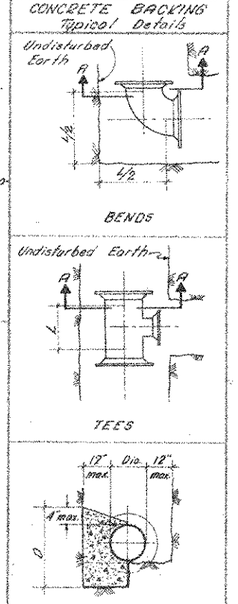


Typical Detail
NON-METERED SERVICE (By Others)



Typical Detail
FIRE - HYDRANT

CONCRETE BACKING
Typical Details



SUB-SUMMARY
ITEM 814 ~ WATER MAINS & SERVICE BRANCHES

				New Installation																		Removals					
				Fittings																							
		New 8" Water Main	New 6" Water Main	90°-6" Bend MJ & MJ	22½°-8" Bend MJ & MJ	22½°-6" Bend MJ & MJ	22½°-6" Bend MJ & PE	11¼°-6" Bend MJ & MJ	8"x8"x8" Tee All MJ	8"x6"x6" Tee All MJ	6"x6"x6" Tee All MJ	8" Sleeve MJ	6" Sleeve MJ	8"x6" Reducer PE & PE		Valves & Boxes 8"	Valves & Boxes 6"	Blowoff Assembly 2"	*Fire Hydrant Reset		New Service Branches	*Fire Hydrant Removed	Valves Removed	8" Water Line Removed	6" Water Line Removed	2" Water Line Removed	
CODE	LOCATION	L.F.	L.F.	Ea.	Ea.	Ea.	Ea.	Ea.	Ea.	Ea.	Ea.	Ea.	Ea.	Ea.		Ea.	Ea.	Ea.	Ea.		L.F.	Ea.	Ea.	L.F.	L.F.	L.F.	
W-1	0+99.5 to 10+215, Rt. Stegner St.	9965	13					2	1		2		2			1	3		1								
W-2	65+85, 61' Rt. to 69+04, 29' Lt. Rel. A.C.D.		423	1	1	2								1			1		1		20						
W-3	68+32, 145' Lt. to 70+40, 23' Lt. Rel. A.C.D.		269			1	1	2						1			1		1		62						
W-4	61+04 Rt., Rel. Alum Creek Dr.											1		1					1								
W-5	7+90 Lt. Stegner Rd.																	1									
W-6	686+14, L. to R., IR 270		430																								
W-11	7+90 to 11+60 Lt., Stegner Rd.																					1	2	413		680	
W-12	59+60 to 61+04 Rt., Rel. Alum Cr. Dr.																							141			
W-13	65+85, 61' Rt. to 69+04, 29' Lt. Rel. A.C.D.																					1	1	281	183		
W-14	68+32, 145' Lt. to 68+57, 10' Lt. Rel. A.C.D.																						1		141		
W-15	1+04.5, 7' Rt. Stegner St.																					1					
TOTAL		9965	1135	1	1	3	1	2	2	1	2	3	2	4		1	5	1	3		72	3	4	835	324	580	

Note: Ductile iron pipe & fittings shall be used under Item 814. Pipe shall be cement motar lined.
All quantities carried to General Summary, Sheet 24

*Quantities combined in General Summary under Item 814, Fire Hydrants moved & reset.

SHEET NO.	STATE	PROJECT	
2	OHIO		

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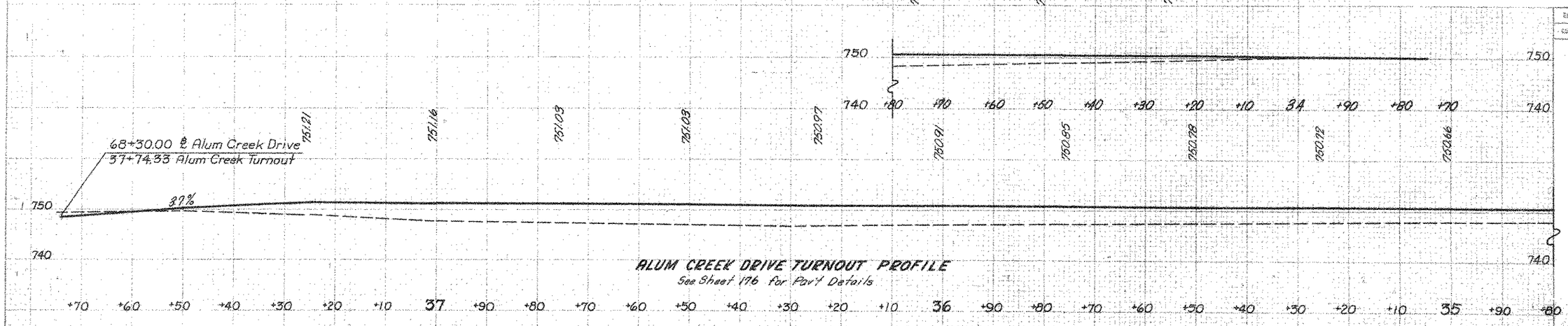
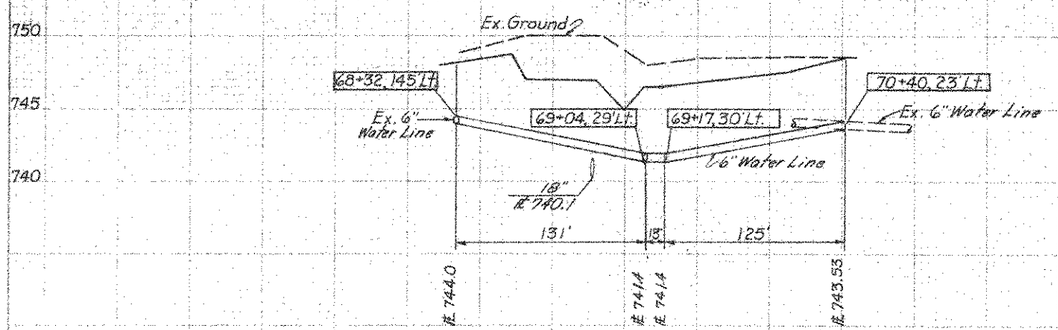


ALUM CREEK DRIVE TURNOUT PROFILE

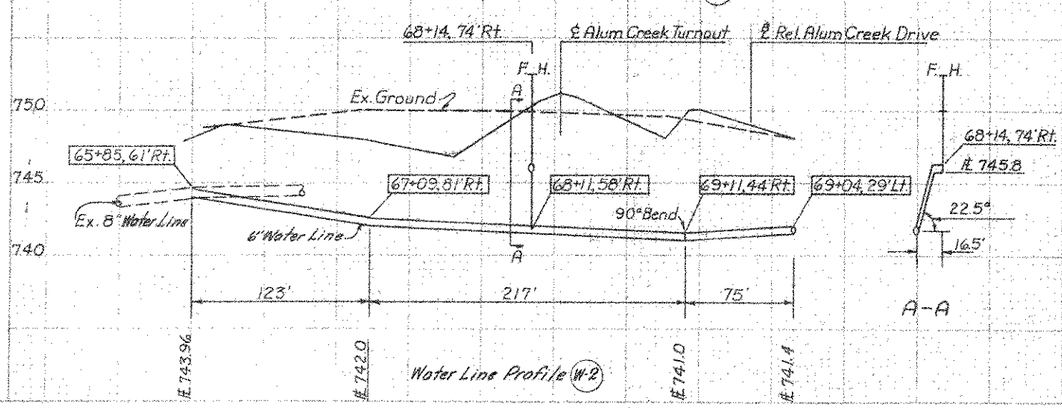
See Sheet 176 for Pav't Details

PROFILES
RELOCATED WATER LINE ~ VILLAGE OF OBETZ

See Plan on Previous Sheet



Water Line Profile (W-3)



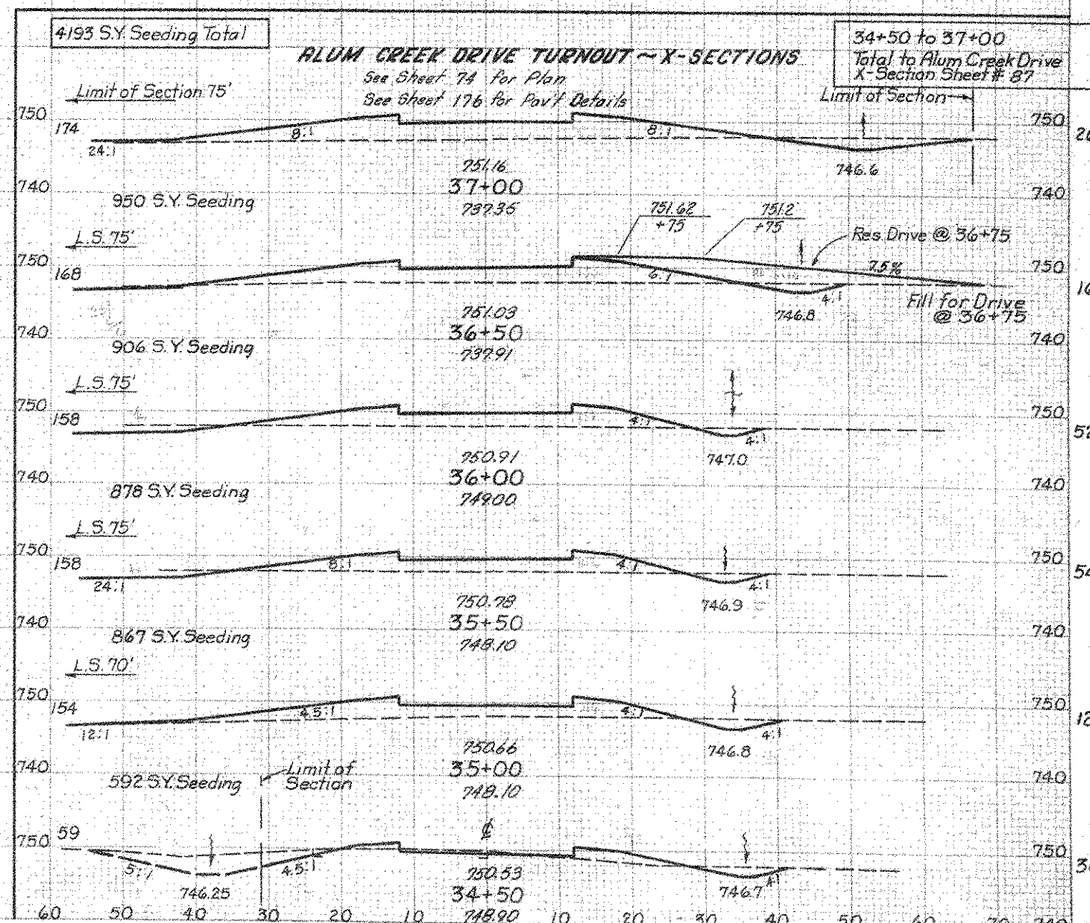
Water Line Profile (W-2)

4193 S.Y. Seeding Total

ALUM CREEK DRIVE TURNOUT ~ X-SECTIONS

See Sheet 74 for Plan
See Sheet 176 for Pav't Details

34+50 to 37+00
Total to Alum Creek Drive
X-Section Sheet # 87



CMP AREA		VOLUME	
CUT	FILL	CUT	FILL
			305 145
		26	188
		39	513
		16	150
		53	
		63	244
		52	114
		98	202
		54	104
		61	204
		12	116
		44	129
		36	23

ALUM CREEK DRIVE TURNOUT X-SECTIONS — WATER LINE PROFILES

FRANKLIN COUNTY
FRA-270-11.59S

STEGNER ROAD CUL-DE-SAC

Note: See Ramp S.E.T. Plan for Cul-De-Sac Plan Shf. 66

Earthwork Quantity
6+50 to 7+75
Total to Sub Summary

778 6+50 to 7+75

PROFILE

7+75
747.2

7+50
747.4

7+25
747.4

7+00
747.3

6+75
747.6

6+50
747.6

Res. Drive @+57, 3.0%

Ditch Profile
85' @ 0.20%

Res. Drive @ 6+90, 2.0%

Radius Pt. @ 7+28, 26.12' Lt. El. 749.35
Pav't slope .0156 ft/ft to outside edge.

Plug Ex. 8" W.L. & Install Blow Off Outlet @ +90

Ex. 8" Water Line

ALUM CREEK CUL-DE-SAC

Note: See Relocated Alum Creek Drive Plan & Profile 60 to 70 for Cul-De-Sac Plan Shf. 44

Earthwork Quantity
28+00 to 29+00
Total to Sub Summary

907 28+00 to 29+00

PROFILE

Reset Fire Hydrant @ 28+95 @ 28+95 Lt., Alum Creek by use of 8"x6" Reducer

Ex. 8" Water Line

Limit of Section

18" Pipe
℄ 736.61
29+00
744.72
744.62

18" Pipe
℄ 736.27
28+75
744.64
744.43

18" Pipe
℄ 735.99
28+50
744.56
744.22

18" Pipe
℄ 736.59
28+25
744.50
744.04

18" Pipe
℄ 736.05
28+00
744.42
743.85

Radius pt. @ 28+50, 22' Lt. El. 744.52
Pavement slope .0136 ft/ft to outside edge.

½" I.ff.

	End Area Cut	End Area Fill	Volume Cut	Volume Fill	Seeding End Width	Seeding Sq. Yds.
7+75	114	0				
			88	1		
7+50	76	3				
			100	2		
7+25	142	2				
			118	1		
7+00	114	0				
			61	1	78	247
6+75	18	2				
			14	1	100	194
6+50	12	0				
					117	274
28+00					80	192
28+25	186	152				
28+50	148	139				
28+75	101	108				
29+00	48	135				
					20	84
	20	206				
					84	86
	506					
		455				
	134	148				
	148	139				
	209	73				
	266	6				

CUL-DE-SAC PROFILE & X-SECTIONS AT STEGNER RD. & ALUM CREEK DRIVE

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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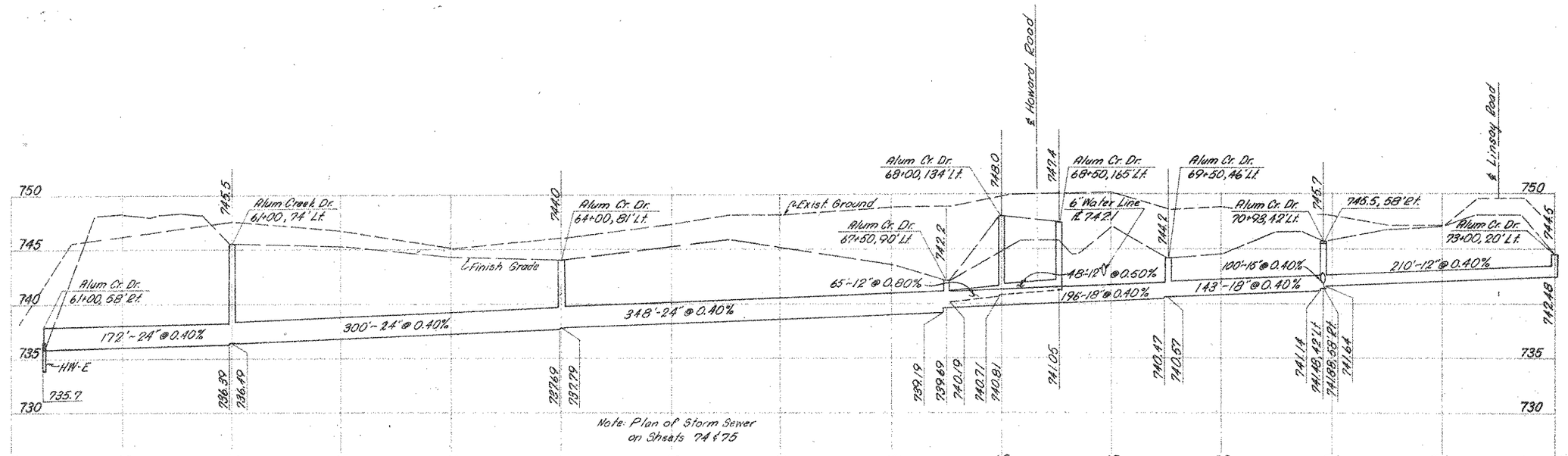
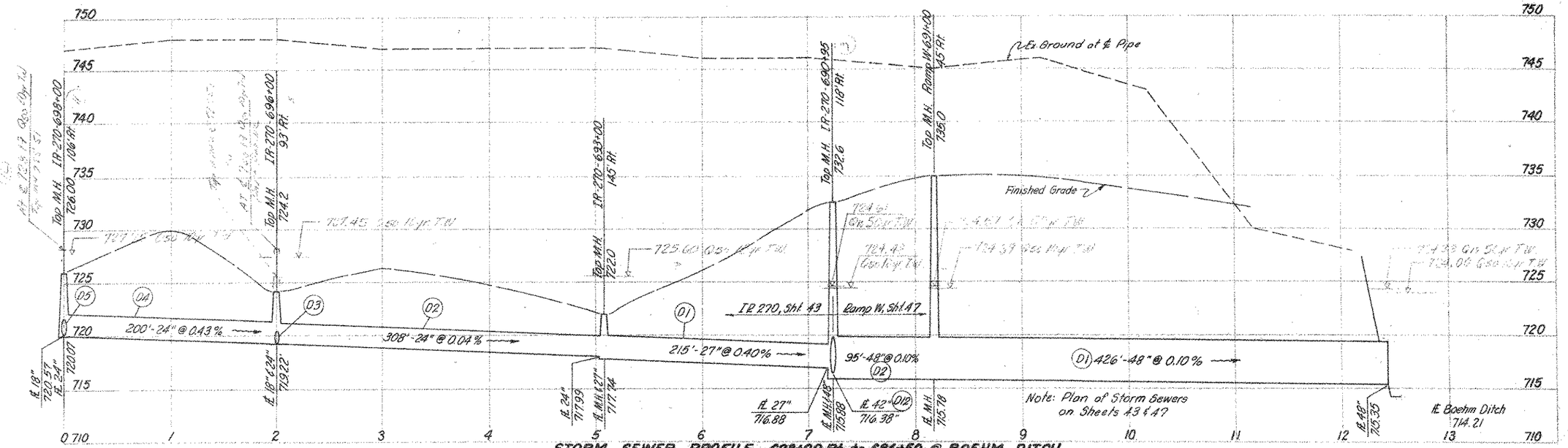
FRANKLIN COUNTY
FRA-270-11.59S



STORM SEWER PROFILE - ALUM CREEK DRIVE - LINDSAY ROAD DITCH



STORM SEWER PROFILE 698+00 Rt to 686+50 @ BOEHM DITCH

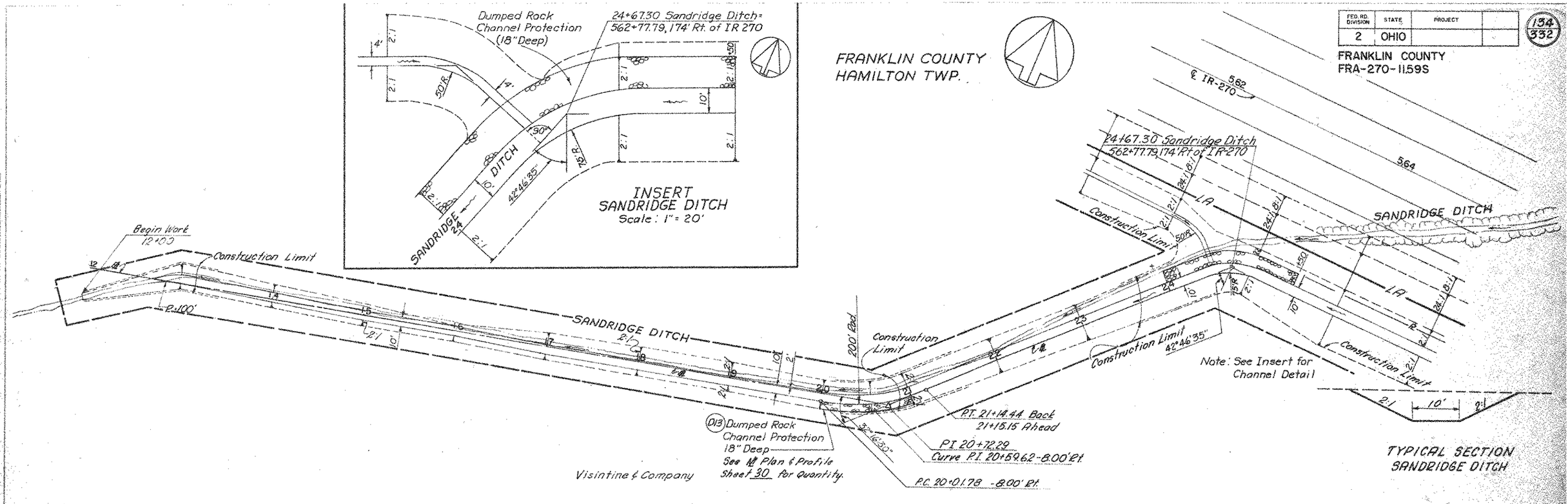
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

134
332

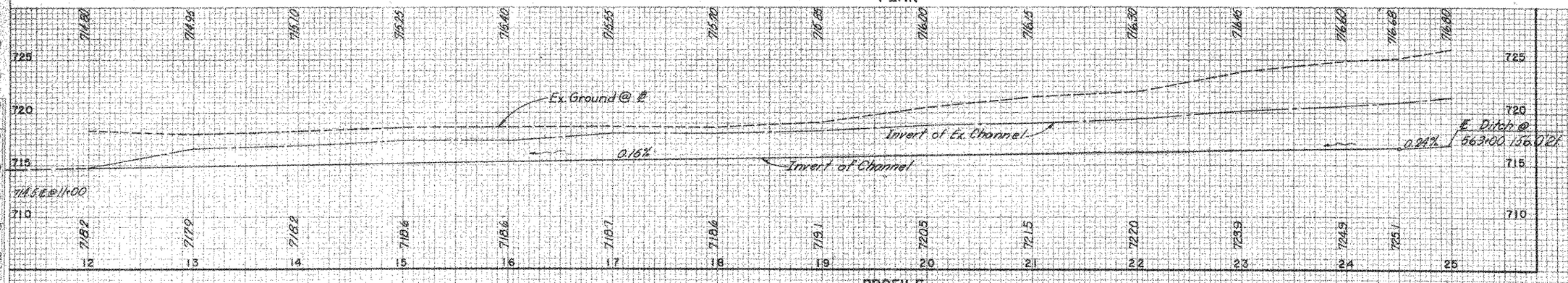
FRANKLIN COUNTY
FRA-270-11.59S

FRANKLIN COUNTY
HAMILTON TWP.

INSERT
SANDRIDGE DITCH
Scale: 1" = 20'



PLAN



PROFILE

SEC. NO. OF CONTROL	STATE	PROJECT	
2	OHIO		

135
332

FRANKLIN COUNTY
FRA-270-11.59S

Note: See Plan & Profile Sandridge Ditch for Layout Grade, and Typical Section Sht 134

Section End Widths	Section Sta.	End Area Cut	End Area Fill	Volume Cut	Volume Fill	Seeding End Width	Seeding Sq. Yds.
						4498	12+00 to 24+50
34	720	40	0			32	
	710			152			
356	719.1						
	19+00						
	7/585						
30	720	42	0			43	
	710			152			
344	718.6						
	18+00						
	7/570						
32	720	40	0			43	
	710			141			
350	718.7						
	17+00						
	7/555						
31	720	36	0			46	
	710			141			
322	718.6						
	16+00						
	7/540						
27	720	40	0			44	
	710			141			
289	718.6						
	15+00						
	7/525						
25	720	36	0			42	
	710			119			
250	718.2						
	14+00						
	7/510						
20	720	28	0			30	
	710			52			
111	717.9						
	13+00						
	7/495						
0	720	0	0			25	
	710					35	
	714.80					383	
	12+00						

BEGIN 12+00 WORK

Limit of Section

END WORK 24+50

7/672
24+50
725.1

Dumped Rock extends to 563+50

For Quantities Section 24+00-24+30

Ahead

Back

7' from 24+00 to 563+50 IR270

15' 7/660
24+00
724.9

Begin Dumped Rock @ 24+00

7/645
23+00
723.9

7/630
22+00
722.0

End Dumped Rock @ 21+00

7/615
21+00
721.5

7/600
20+00
720.4

Begin Dumped Rock @ 20+00

		End Area Cut	End Area Fill	Volume Cut	Volume Fill
Earthwork Quantity 12+00 to 24+50	730			3403	
Total to Sub Summary	720				131
	24+50	288	0		
				182	7
	24+30	204	18		
	730			227	20
Ahead	24+00	204	18		
Back	720	204	18		
				681	48
				164	8
	730				
	720				
				541	15
	730			128	0
	720				
				393	15
	730				
Ahead		84	10		
	720				
Back		84	10		
				281	20
	730				
Ahead		68	1		
	720				
Back		68	1		
				200	2

40 20 0 20 40 60 80 100

SANDRIDGE DITCH M.L. X-SECTIONS 12+00 TO 24+

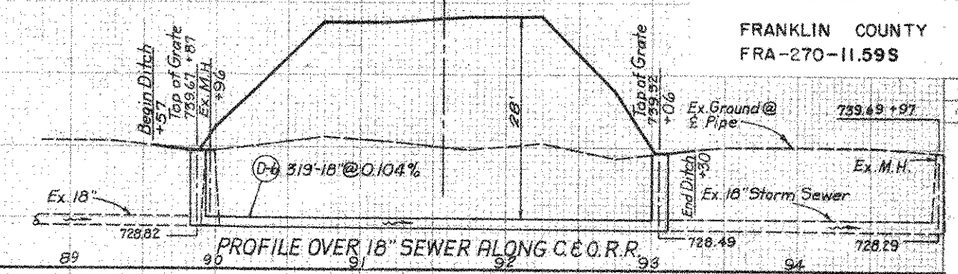
FED. ROAD DIVISION	STATE	PROJECT		
2	OHIO			

136
332

FRANKLIN COUNTY
FRA-270-11.59S

Note : See IR 270 Plan & Profile Sheet No 36
620+00 - 630+00 for Location Plan

℄ I.R.-270



PROFILE OVER 18" SEWER ALONG C & O.R.R.

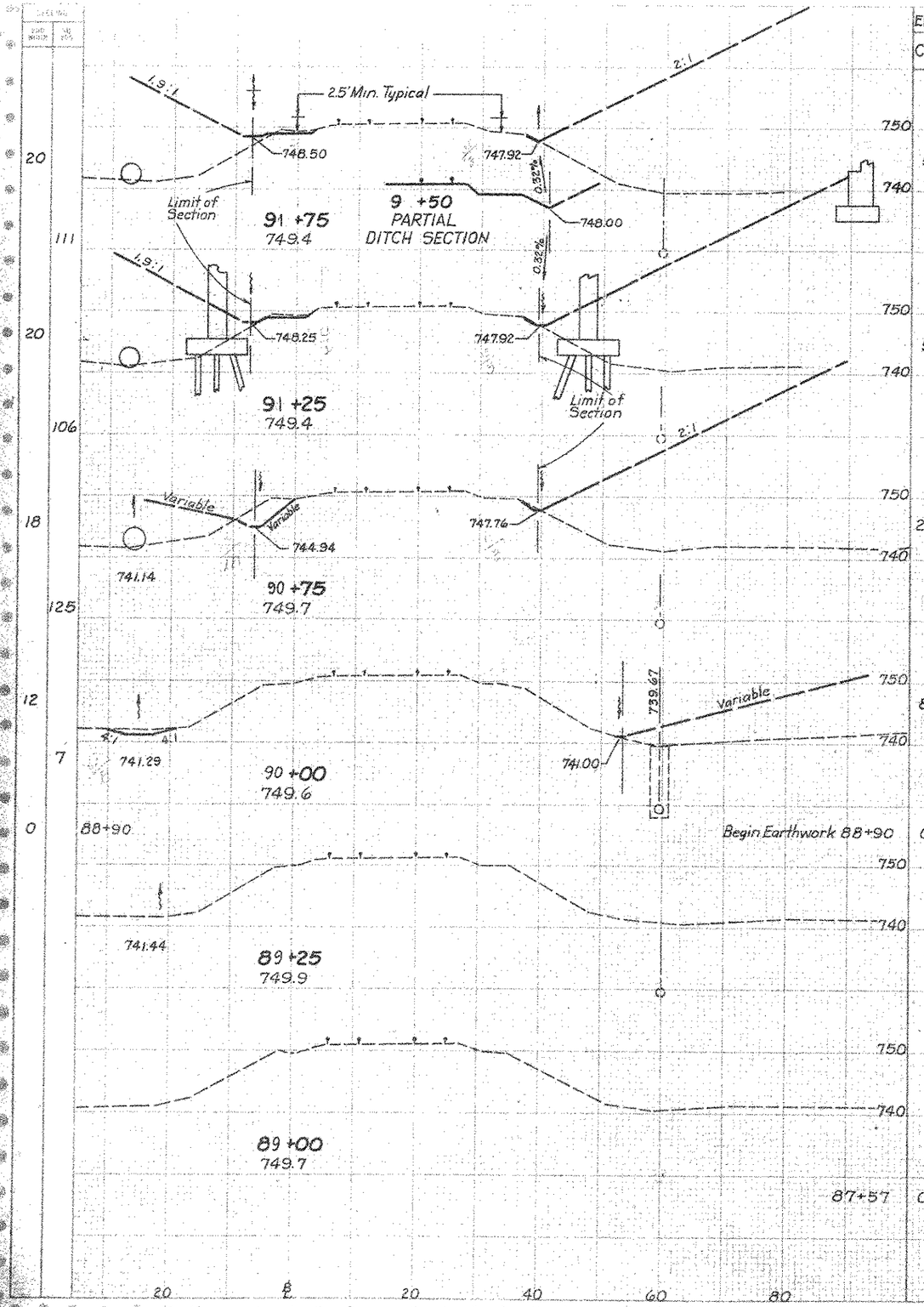
END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL	SEEDING END WIDTH	SEEDING SQ. YDS.
				655	88+00 to 93+50
5	1				
		9	2		
5	1				
		24	1		
21	0				
		40	0		
				0	92+85
8	0				
		20	0		
0	0				Begin Earthwork 88+90
					87+57

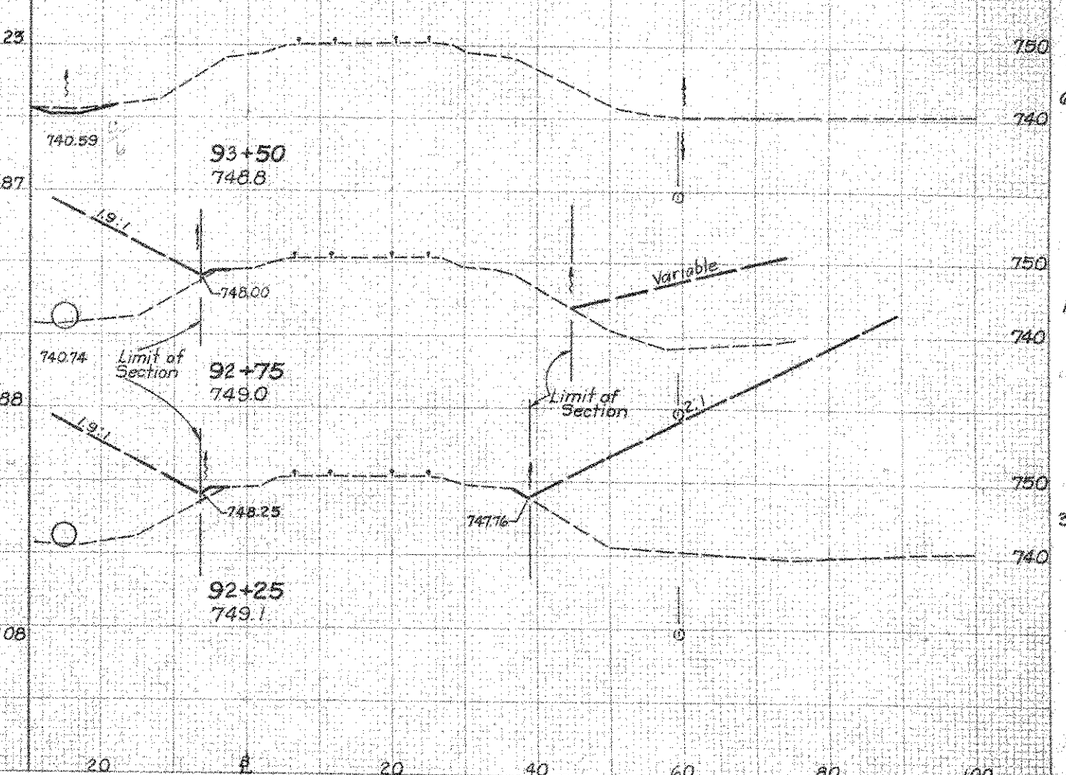
Earthwork Quantity
88+00 to 93+50

Total to Mainline
X-Section Sheet No 222

END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
0	0		
		4	0
6	0		
		10	1
1	1		
		4	4
3	3		
		7	4
		100	12

End Earthwork 92+85 0 0





C & O.R.R. X-SECTIONS

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

137
332

FRANKLIN COUNTY
FRA-270-11.59S

FRANKLIN COUNTY
HAMILTON TWP

A.R. McClish

State of Ohio

Begin Work 4+30

Do not disturb existing Conc. Headwall or existing Tile.

6" Tile

18" Tile

7+50
Δ=3°28'05" Rt.

FRA-270-1367
8'H x 8'W Box Culvert
10+00 ℄ Rel. Johnston Ditch
644+58.00 ℄ I.R. 270
See Detail Sheet 151

S86°19'15"E 646

S26°19'15"E

L 60°

℄ REL. C.S. JOHNSTON COUNTY DITCH

Construction Limit

C. S. JOHNSTON

Limit of Construction

Dirt Field Drive?

℄ 644

642 ℄ I.R. 270

Bench 738.0

COUNTY

DITCH

Limit of Construction

Dumped Rock Channel Protection (15'x12'x1.5') included on Culvert detail sheet 151.

Limit of work this sheet 16+50

℄ Field Drive

Columbus and Southern RW

℄ REL. OBETZ REESE ROAD

NORFORK AND WESTERN RAILROAD

VILLAGE OF OBETZ AND HAMILTON TWP

Concrete Headwall

Stone Wall

30" Pipe

3'x5' Box Culvert

3'x4' Box Culvert

12" Tile

Ex. Inlet

36" Conc. Pipe

C.E. & J.O. Williams

Ohio Electric

Ca

A.R. McClish

Ex. Ditch filled by Bench from 643+00 to 643+35 at El. 738.00

Limit of Work 16+50

3'x4' Box Culvert

Flow line of Ditch

Ex. Inlet

36" Conc. Pipe

℄ Obetz Reese Road

Ex. Grade @ ℄

-0.16%

PROFILE

	Seeding		End Area		Volume	
	End Width	Sq. Yds.	Cut	Fill	Cut	Fill
5+50	87		95	50		
		486			173	93
	88		92	50		
		358			111	65
	41		28	20		
		74			13	8
	26		8	1		

5+50
738.9

5+00
738.7

4+50
738.2

4+30
736.4

736.54

736.62

734.10

734.73

BEGIN WORK@4+30

SECTIONS

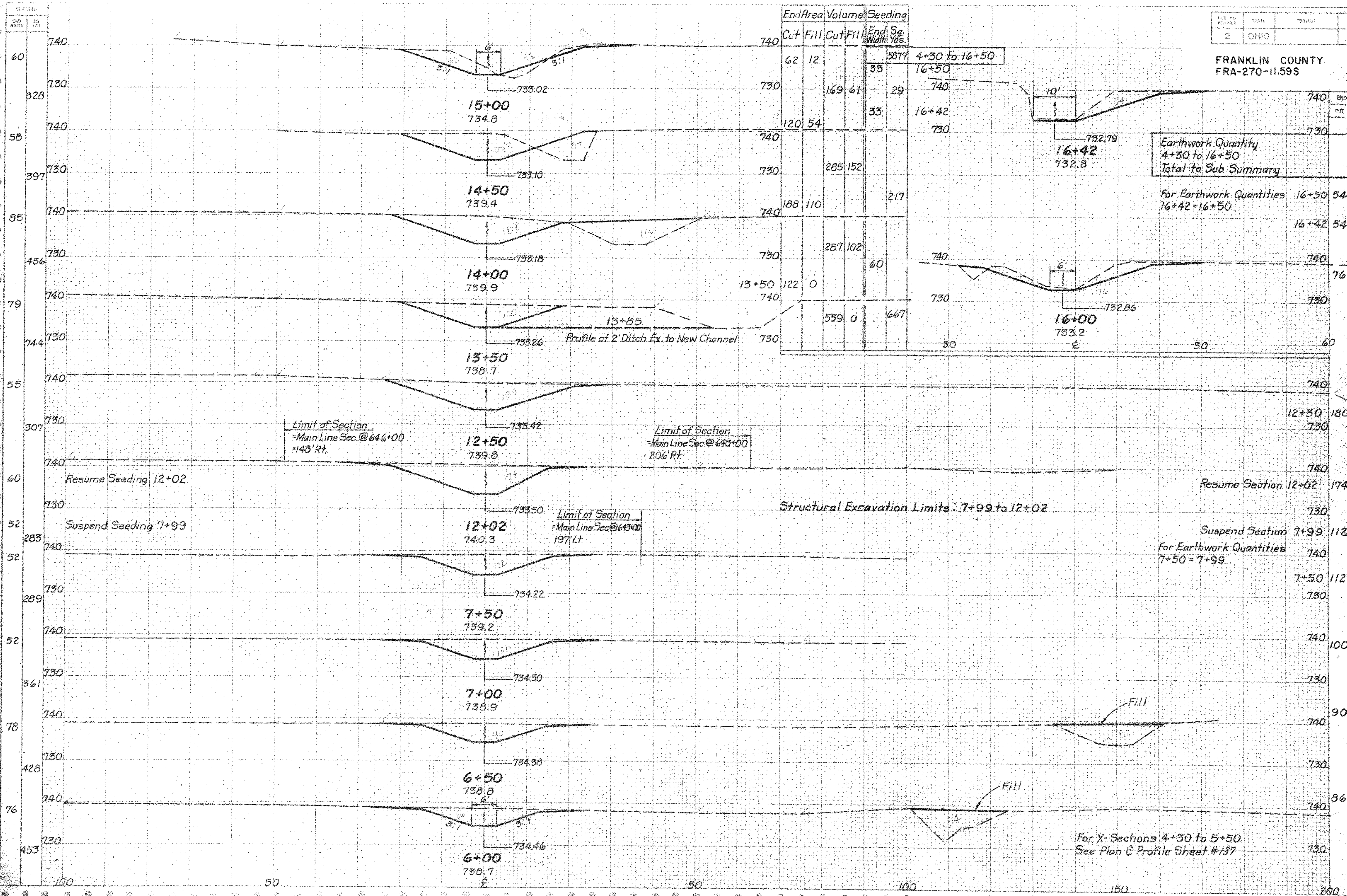
50 Lt. 50 Rt. 100

JOHNSTON COUNTY DITCH PLAN & PROFILE 4+30 TO 16+50

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

138
332

FRANKLIN COUNTY
FRA-270-11.59S



End Area Cut	End Area Fill	Volume Cut	Volume Fill	Seeding End Width	Seeding Sq. Yds.
					5877
62	12			35	
		169	61		29
120	54			33	
		285	152		217
188	110				
		287	102	60	
122	0				
		559	0		667

4+30 to 16+50

13+50

SEEDING END WIDTH	SEEDING SQ. YDS.
60	
	328
58	
	397
85	
	456
79	
	744
55	
	307
60	
52	
	283
52	
	289
52	
	361
78	
	428
76	
	453

Earthwork Quantity
4+30 to 16+50
Total to Sub Summary

For Earthwork Quantities
16+42 = 16+50

Resume Section 12+02

Suspend Section 7+99

For Earthwork Quantities
7+50 = 7+99

For X-Sections 4+30 to 5+50
See Plan & Profile Sheet #137

	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
			3191	
				884
16+50	54	0		
			16	0
16+42	54	0		
			101	8
	76	10		
			256	41
12+50	180	0		
			315	0
12+02	174	0		
7+99	112	0		
			203	0
7+50	112	0		
			196	0
	100	0		
			176	76
	90	82		
			163	154
	86	84		
			168	124

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

139
332

FRANKLIN COUNTY
FRA-270-11.59S

DRAINAGE		601 Dumped Rock Channel Protection		
Code	Location	C.Y.		
D-1	6+50 to 8+00	100		
	Total	100		

Herbert Rees Travis

BOEHM DITCH CURVE DATA
P.I. 13+18.37
Δ = 36°22'10" Rt.
R = 300'
T = 98.55'
L = 190.43'
PI_B to PI_E = 336.60

FRANKLIN COUNTY
VILLAGE OF OBETZ

N 682,000
E 1,877,600
N 681,400
N 680,800
E 1,877,200
E 1,876,800
E 1,876,600
N 680,800

RAMP W
RAMP T
State of Ohio
Construction Limits
RELOC
D1
C. F. Niemann
Bench Mark 6+40.0
See Culvert Detail Sheet 155 for Erosion Control Quantities.
PC 12+19.82
PI 13+18.37
PT 14+10.25 (Back)
PT 14+16.92 (Ahead)
PC 15+81.02
BOEHM
COUNTY
S 16° 01' 49" W
S 48° 23' 59" W
S 27° 27' 05" W
S 46° 02' 10" E
DITCH
FRA-270-1446
20' Single Span - Reinforced Concrete Slab
10+00 Rel. Boehm County Ditch
686+90.00 TR-270
See Culvert Detail Sheet # 155
BOEHM DITCH CURVE DATA
P.I. 16+54.97
Δ = 20°56'54" Lt.
R = 400'
T = 73.95'
L = 146.25'
PI 16+54.97
Herbert Rees Travis
Exist. PT
Exist. PI 51+11.69
Δ = 9°12'43"
PT 17+27.27 (Back)
PT 17+28.92 (Ahead)
PI = 150+52.74
Δ = 9°54'09" Lt.
Easement
Exist. ℄
12" Pipe
Highway
ROAD
Ex. Stone Box Culvert
℄ GROVEPORT
Perpetual
See Next Sheet Match Line
See Culvert Detail Sheet 164 for Erosion Control Quantities
19+80.82
Δ = 73°29'15" Lt.
14'x7' Box Culvert
18+64.02 Boehm Ditch
148+63.35 Groveport Road
See Culvert Detail Sheet # 164
Construction Limit
Construction Limits
Construction Limits
Construction Limits
TR-270
686
688
690
4:1
8:1
2:1
5:1
16°12'15"
6:1
20'
50'
12'
48'
32'
152'
148'
150'
60'
℄ TR 270
℄ Groveport Rd.
Existing Ground
Ex. Ground @ ℄
Flow Line of Ex. Channel
48" Storm Sewer
℄ 714.98
℄ 715.43
℄ 716.03
℄ 714.08
3.00%
0.30%
0.10%
Flow line of Ditch
6'x8.5'H
6'x7'H
732.2
721.0
721.5
728.8
731.5
732.3
723.6
728.0
725.2
724.8
725.1
721.9
721.2
720.5
724.0
PROFILE
TYPICAL DITCH SECTION
BOEHM COUNTY DITCH PLAN & PROFILE 6+40 TO 20+

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

(140/332)

FRANKLIN COUNTY
FRA-270-11.59S

S-54°27'55"E

GROVEPORT ROAD

S-64°22'44"E

Ex. ℄

S-7°51'12"E

Columbus & Southern Ohio Electric Co.

Construction Limit

PI 19+80.82
Δ = 73°29'15" Lt.

RELOC. BOEHM

S 26°02'10" E

PI 22+10.74
Δ = 24°38'45" Rt.

COUNTY DITCH 23

S 27°53'25" E

PI 24+44.18
Δ = 16°20'30" Lt.

S 37°43'55" E

END WORK
26+70

MATCH LINE
See Previous Sheet

Phillips Petroleum Co.

Existing Underdrains

DRIVE 34

ALUM CREEK

N 18°54'21" E

RELOC.

31+74.30

32

35+29.08 ℄ Rel. Alum Creek Drive
9+72.70 ℄ Groveport Rd.-Ahead =
159+55.51 ℄ Groveport Rd.-Back

Hebert Rees Travis

84" Culvert
Alum Creek Dr 31+74.30
See Culvert Detail Sheet 163

Boehm County Ditch

Exist. 84" Culvert

Begin Work
30+95

30

714.07 714.02 713.97 713.91 713.87 713.82 713.78 713.72 713.67 713.62 713.57 713.52 712.8

725
720
715
710
705

Exist. Ground

Exist. Flow Line of Ditch

0.10%

714.08

713.53

Variable

712.8

84" Culvert

721.2 720.5 720.1 717.9+01 720.9 719.6 719.1 715.9 718.8 717.9 717.4 717.2 712.8+10

20 22 24 26 28 30 32 34

BOEHM COUNTY DITCH PLAN & PROFILE 20+50 TO END

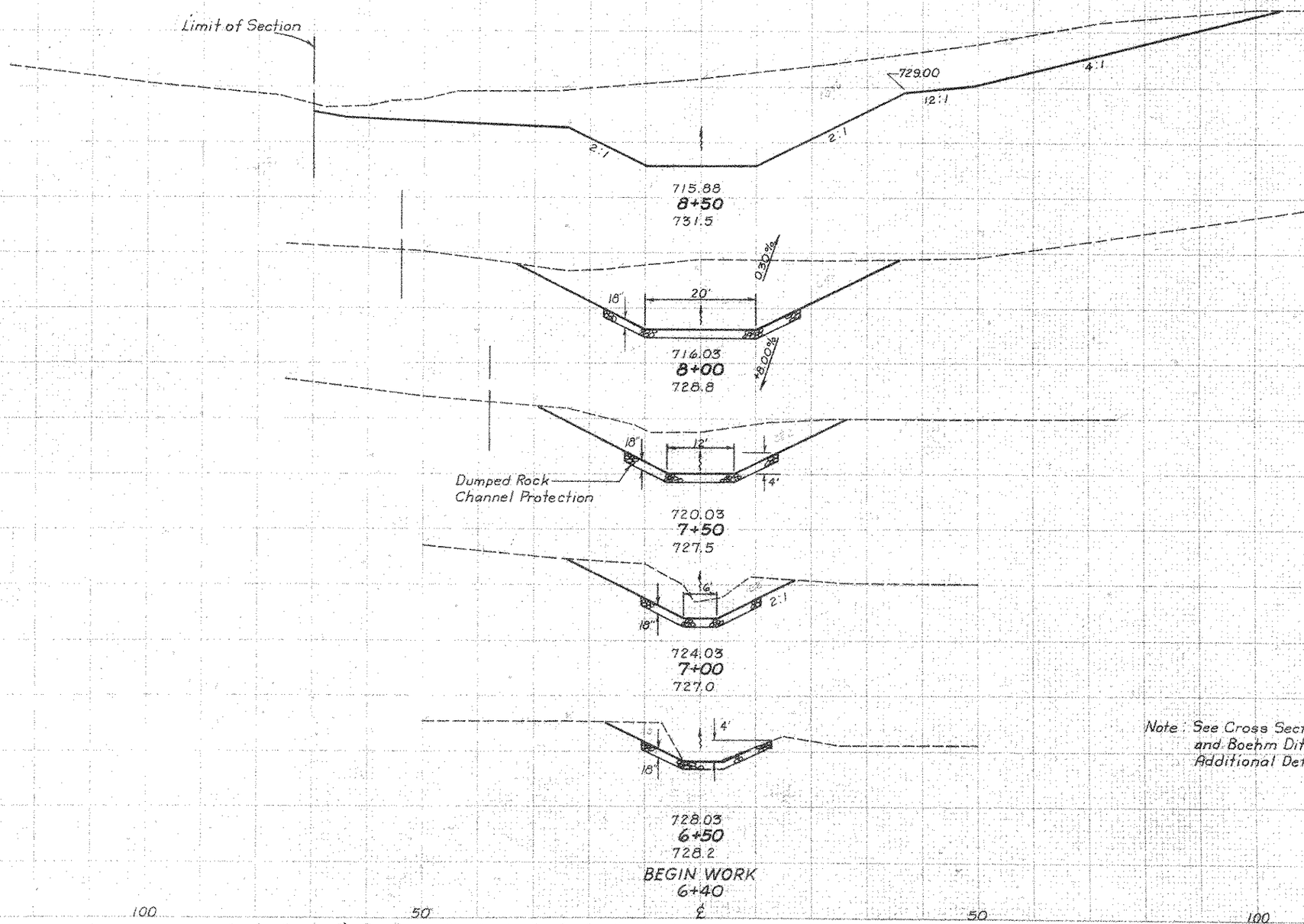
SHEET NO.	STATE	PROJECT	
2	OHIO		

141
332

FRANKLIN COUNTY
FRA-270-11.59S

1104 6+40 to 8+70

Structural Excavation Limits
8+70 to 11+36



Earthwork Quantity	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
6+40 to 8+70 Total to Sub Summary			3461	0
Channel Volume 8+50 to 8+70			314	0
740				
730				
8+50	1386	0		
720			1791	0
Ahead 8+00 Back	548	0		
730				
720			769	0
730				
720			402	0
730				
720			178	0
730				
720			7	0
6+40	0	0		

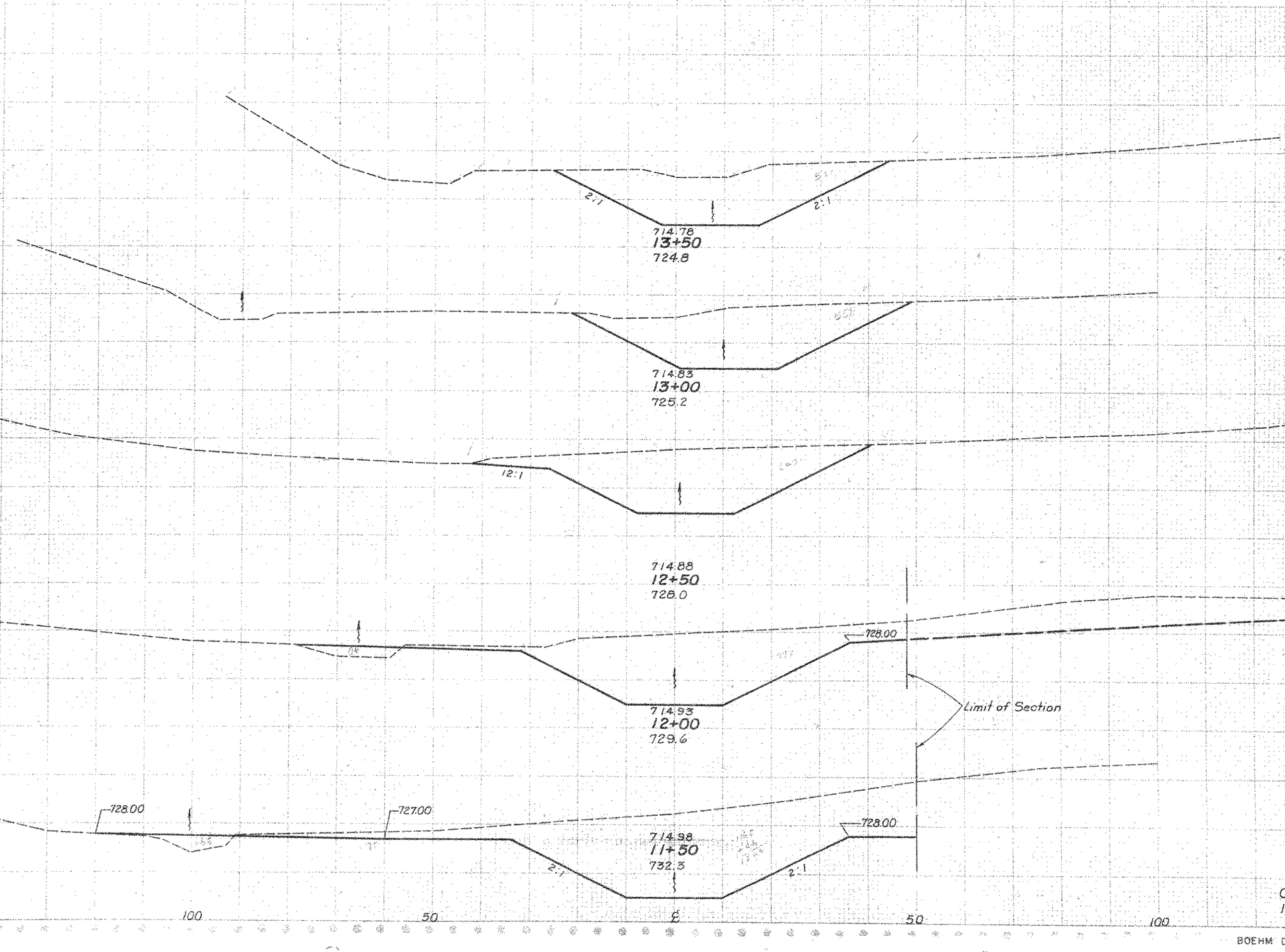
Note: See Cross Section Layout Sheet and Boehm Ditch Plan for Additional Details.

BOEHM DITCH X-SECTIONS 6+50 TO 8+50

SHEET NO.	STATE	PROJECT
2	OHIO	

142
332

FRANKLIN COUNTY
FRA-270-11.59 S



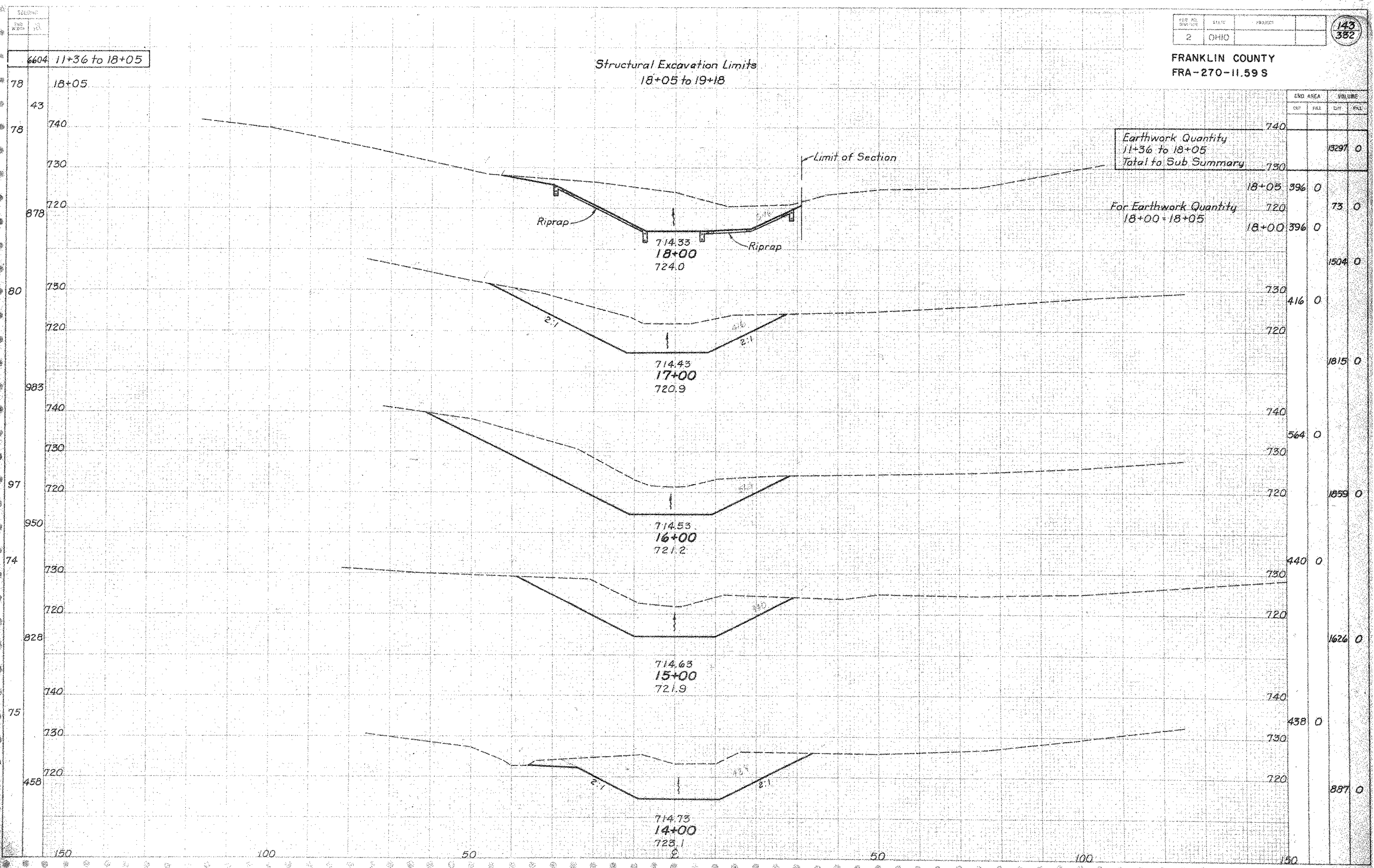
SECTION		AREA		VOLUME	
DIST. BETWEEN SECTIONS	SECTION NO.	CUT	FILL	CUT	FILL
90		520	0		
	478			998	0
82		558	0		
	486			1117	0
93		648	0		
	633			1319	37
135		776	40		
	867			1835	69
177		1206	34		
				264	

BOEHM DITCH X-SECTIONS 11+50 TO 13+50

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

143
382

FRANKLIN COUNTY
FRA-270-11.59 S



BOEHM DITCH X-SECTIONS 14+00 TO 18+00

SEC. AID DIVISION	STATE	PROJECT	
2	OHIO		

144
332

FRANKLIN COUNTY
FRA-270-11.59 S

SEEDING			END AREA		VOLUME	
EXC. WIDTH	SY YDS.		CUT	FILL	CUT	FILL
57	317	740				
		730				
		720	212	0		
		740			419	0
57		730	240	0		
	344	720			733	0
67		740 Ahead	552	0		
37		730 Back	226	0		
	243	720			323	43
81		740			246	63
		730				
	241	720			613	30
		740				
86		730 19+37	1028	0		
86	182	720			723	0
		19+18 710	1028	0		

714.02
21+00
720.5

714.07
20+50
721.2

714.13
20+00
721.4

714.16
19+63
719.6

714.19
19+37
732.1

Ahead
Back Only
Limit of Section
Dumped Rock Channel Protection
Limit of Section
Bench 730.50
Ex. Stone Box Culvert
For Earthwork Section 19+18 - 19+37

150 100 50 ℄ 50 100 150

BOEHM DITCH X-SECTIONS 19+37 TO 21+00

FED. HWY. DIVISION	STATE	PROJECT	
2	OHIO		

145
332

FRANKLIN COUNTY
FRA-270-11.59 S

END AREA		VOLUME	
CUT	FILL	CUT	FILL
186	28	372	44
216	20	530	43
356	26	514	21
290	0	505	25
188	24	370	22

713.78
23+50
719.1

713.82
23+00
719.6

713.87
22+50
720.9

713.91
22+07
717.3

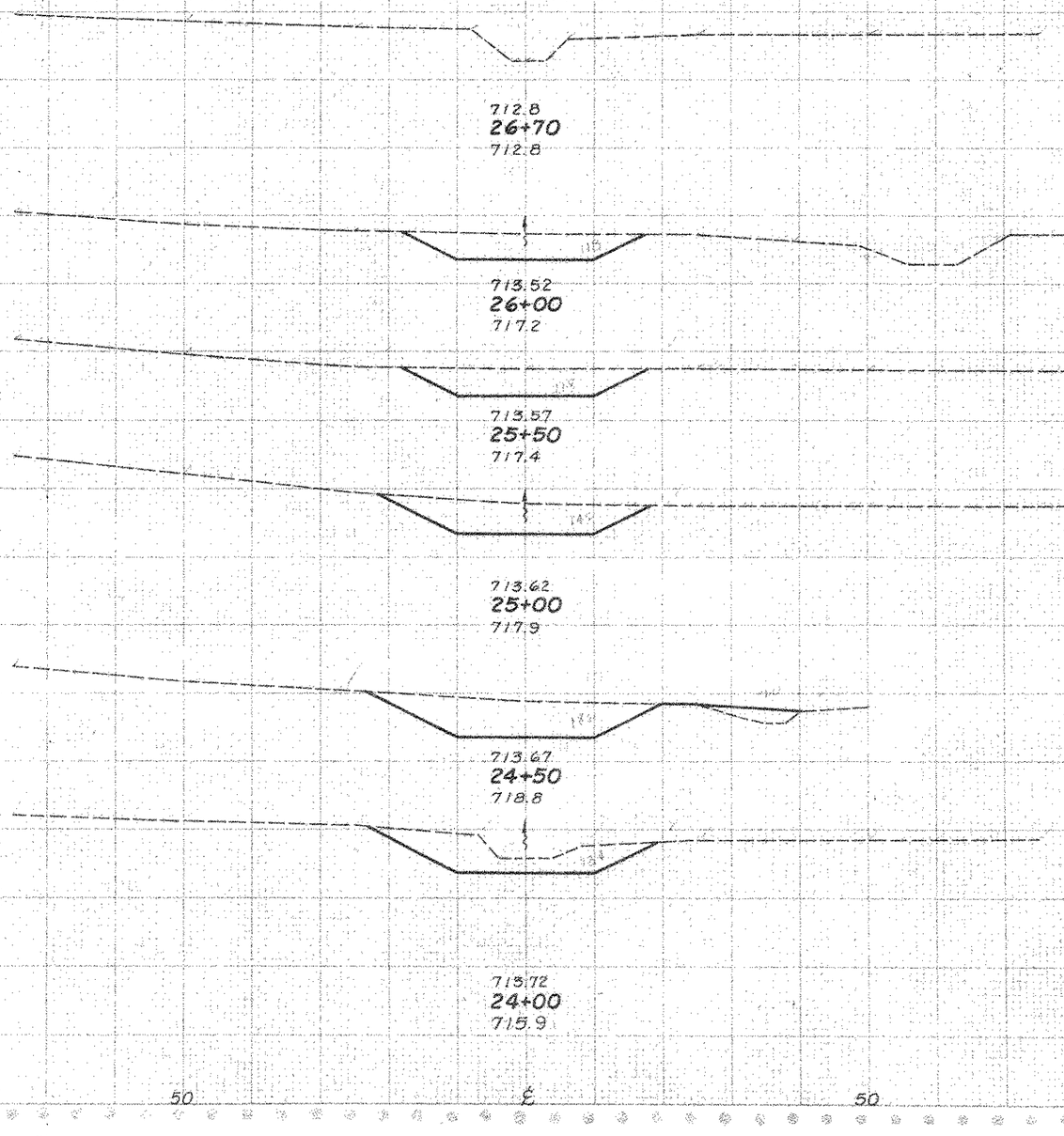
713.97
21+50
720.1
℄

BOEHM DITCH X-SECTIONS 21+50 TO 23+50

SHEET NO.	STATE	PROJECT		146 / 332
2	OHIO			

FRANKLIN COUNTY
FRA-270-11.59S

SECTION AREA			END AREA		VOLUME	
CUT	FILL		CUT	FILL	CUT	FILL
4875		19+18 to 26+70				
		Earthwork Quantity 19+18 to 26+70 Total to Sub Summary			6604	292
0		720	0	0		
	148	710			153	0
38		720	118	0		
	214	710			219	0
39		720	118	0		
	225	710			241	0
42		720	142	0		
	300	710			300	19
46		720	182	20		
	308	710			293	19
45		720	134	0		
	397	710			296	26



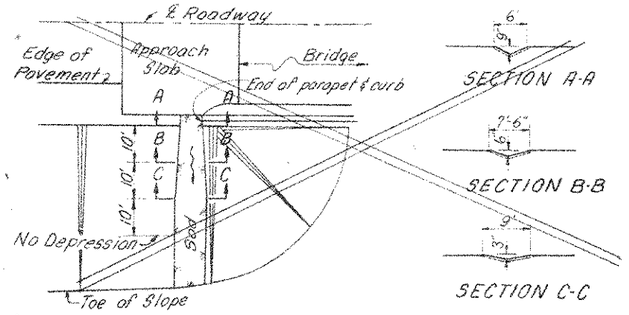
BOEHM DITCH X-SECTIONS 24+00 TO 26+70

FED. RD. DIVISION	STATE	PROJECT		147 / 332
2	OHIO			

FRANKLIN COUNTY
FRA-270-11.59S

DRAINAGE DETAILS

SODDING FOR SPECIAL BERM AND SLOPE PROTECTION



Note: For this Item, see notes & Details on Std. Dwg. MC-7

Prior to placement of sod in the berm and slope, galvanized poultry fence shall be placed on the finished grade in strands which shall be at right angles to the direction of flow. Each strand shall be staked securely on top and bottom with stakes spaced at four foot intervals and alternated in rows four feet apart.

Stakes shall be 1"x1"x8" wood stakes and shall be perpendicular to the ground and flush with the finished grade.

The fence shall be straight line poultry fence or equivalent with strand width of four feet having a two inch mesh and all wire No. 20 gage.

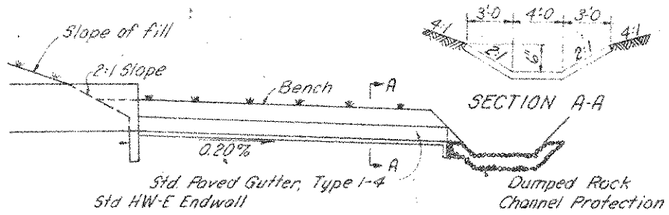
The strand of fencing shall be fastened together at twelve inch intervals by means of hog rings.

The fencing shall be secured to the wood stakes by metal staples

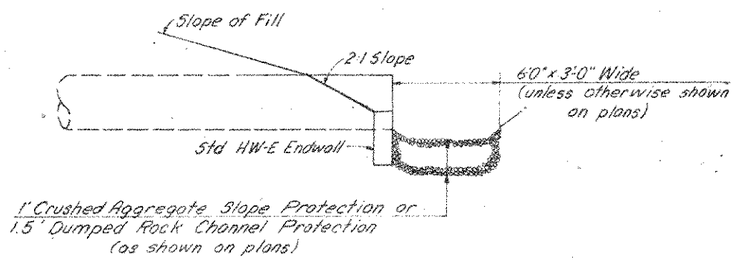
Sod shall be laid in accordance with Construction and Material Specifications Section 660.06, and depressed 2".

Payment for all of the above shall be included in the unit price bid for "Item 660, Sodding for Special Berm and Slope Protection".

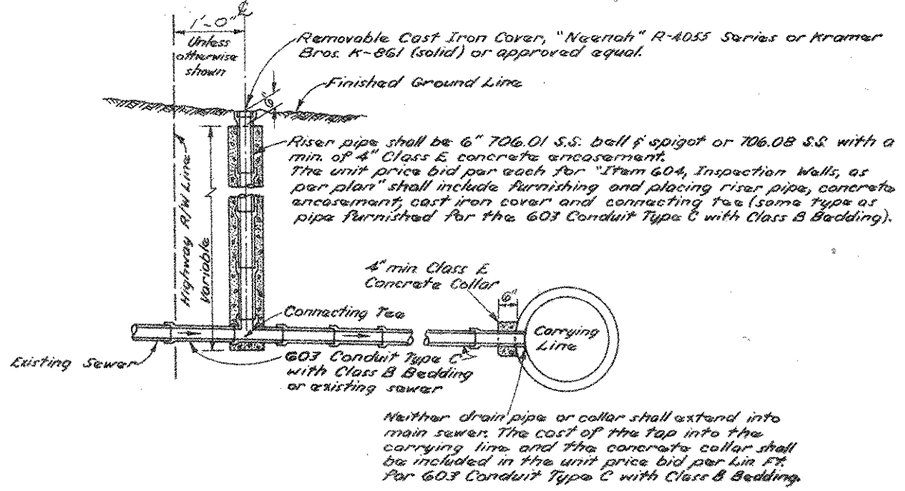
DETAIL OF STORM SEWER OUTLET ON BENCH



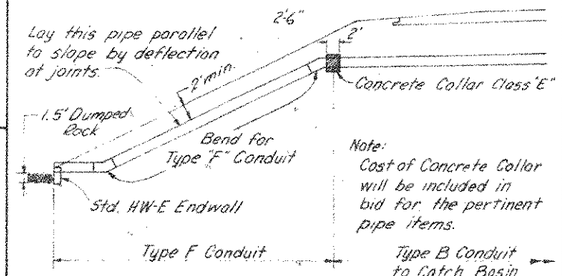
DETAIL OF PROTECTION AT ENDWALLS

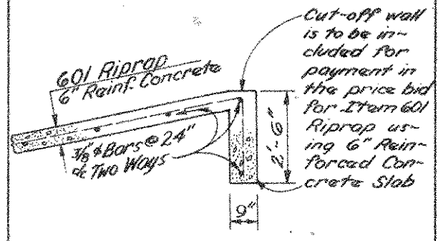


INSPECTION WELL DETAIL



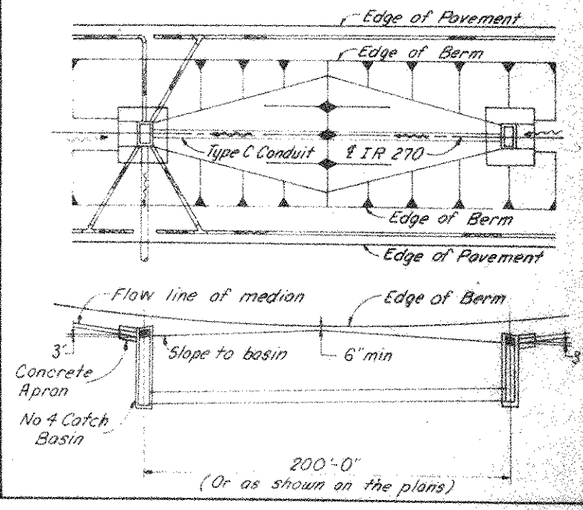
MEDIAN OUTLET DETAIL IN HIGH FILL



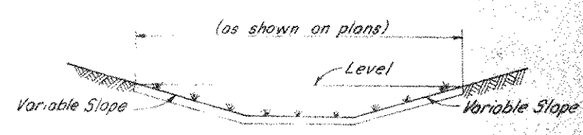


DETAIL of CUT-OFF WALL

PLAN AND PROFILE MEDIAN DETAIL IN SAG



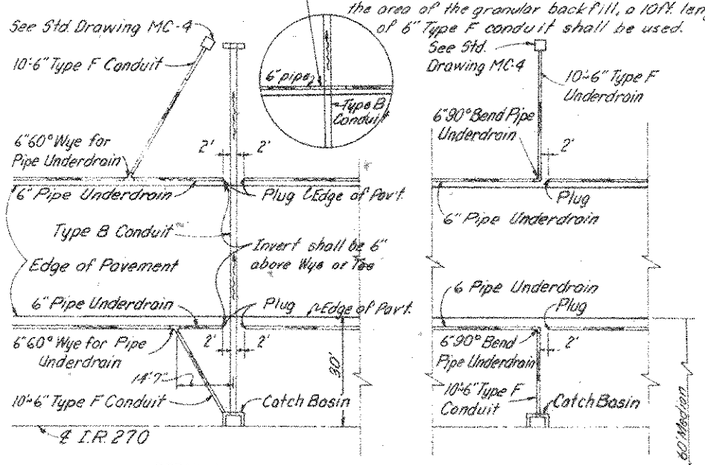
SOD & JUTE MATTING DETAIL OUTSIDE DITCHES



UNDERDRAIN OUTLET DETAILS

Note: Cost of plugs shall be included in the unit cost bid for 6" pipe underdrains.

When the pipe underdrain crosses another conduit within the area of the granular backfill, a 10ft length (min.) of 6" Type F conduit shall be used.



FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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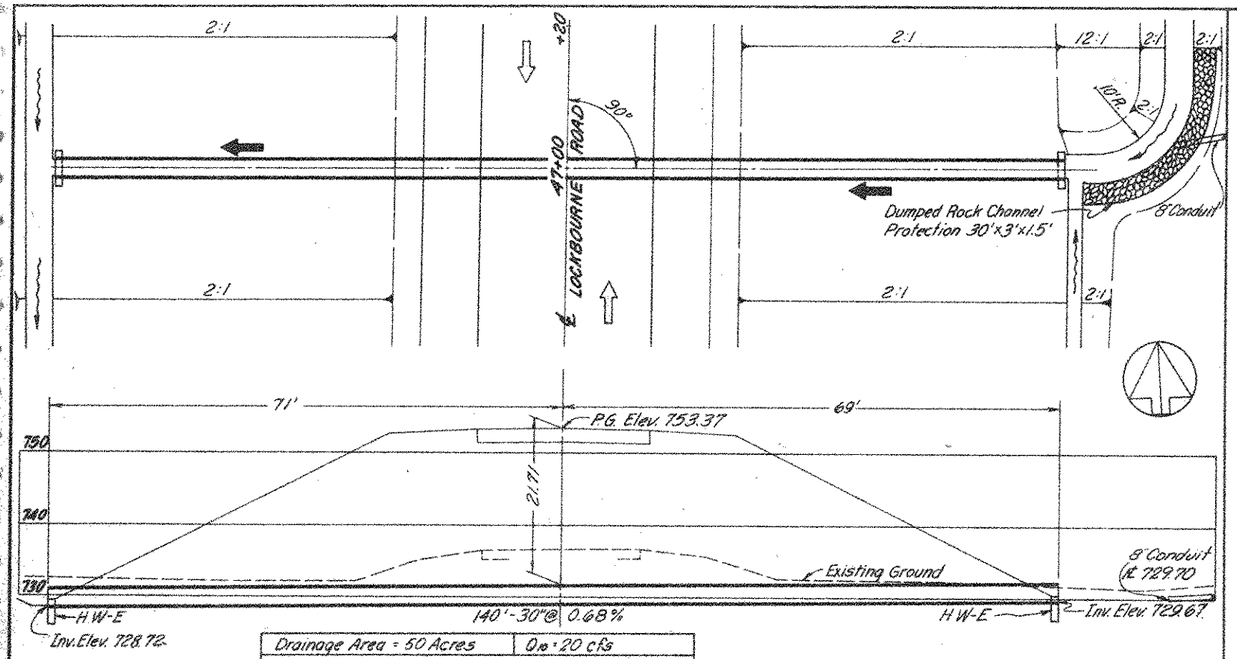
FRANKLIN COUNTY
FRA-270-11.59S



Drainage Area = 50 Acres	Q = 20 cfs

ESTIMATED QUANTITIES

ITEM	DESCRIPTION	UNIT	QUAN.
602	Concrete Masonry	C.Y.	1.02
603	30" Type A (706.02 Class V)	L.F.	140
601	Dumped Rock Channel Protection	C.Y.	5

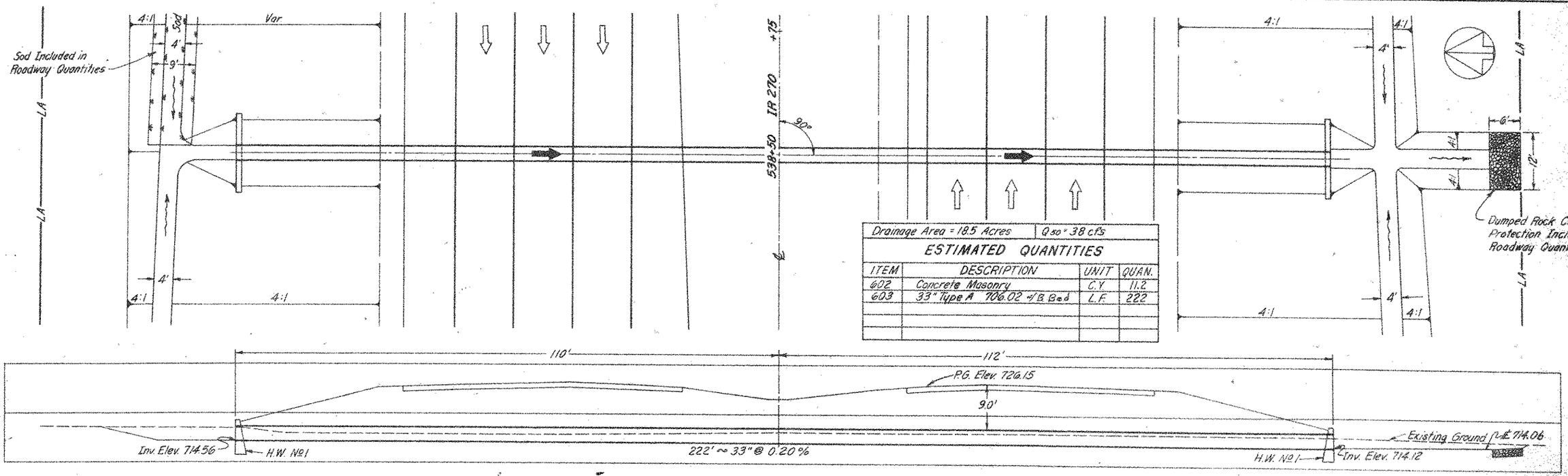
DRAINAGE STRUCTURE
LOCKBOURNE ROAD
STA. 47+00

CULVERT SUB-SUMMARY

				503	509	511	601		602	603 Type A with Class B Bedding										604	203	603
DRAINAGE				Excavation for Structures	Reinforcing Steel	Concrete for Structures	Dumped Rock Channel Protection	6" Reinforced Concrete Riprap	Masonry	18" (706.01 or 706.02 or 706.08)	24" (706.02 or 706.08)	30" (706.02 Class V)	33" 706.02	42" 706.02 Class IV	48" (706.02)	60" (706.02)	54" (706.02)	60" (706.02 Class III)	84" (706.02 Class II)	96" (706.02)	Standard No. 2-6 Catch Basin	Excavation (Channel)	48" Type A (706.02 Cl. V)
Sheet	Location	Station	Fra. No.	C.Y.	Lbs.	C.Y.	C.Y.	S.Y.	C.Y.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	Ea.	C.Y.	
148	Mainline	538+50	1166						11.2				222									
149	Mainline	553+00	1193				25	35	20.0								226					
149	Mainline	578+75	1242				12	46	16.4						226							
150	Mainline	567+75	1221				87	100	4.8										258			
150	Mainline	624+25	1328						1.72*													298*
151	Mainline	644+58	1367	664*	140,397*	704*	76*														659*	
153	Mainline	649+57	1376	178*	61,052*	330*	42*															
155	Mainline	686+90	1446			All Totals To General Summary																
161	Ramp X	710+40	1491 Lt				7		4.4	98												
161	Mainline	718+00	1506				12		7.46					370								
162	Mainline	724+50	1518					108	22.0								62		254			
148	Lockbourne	47+00					5		1.02			140										
163	Obetz-Reese	34+00							0.60*	80*												
163	Alum Cr. Dr.	31+66.06					53		52										214			
163	Samson	22+16					9		0.82		80											
164	Groveport	148+63.35		398	36,245	234	138	113												1	1080	
I Section Sub Total				398	36,245	234	370	402	140.1	98	80	140	222	370	226	62	226	254	214	258	1	1080	
*IG Section Sub Total				842	202,449	1034	118		2.3	80												659	298

SUB-TOTALS TO SUMMARY Sht. 21

*Channel Excavation to Sub Summary Sht. 25



Drainage Area = 18.5 Acres	Q 50 = 38 cfs

ESTIMATED QUANTITIES

ITEM	DESCRIPTION	UNIT	QUAN.
602	Concrete Masonry	C.Y.	11.2
603	33" Type A 706.02 w/ B. Bed	L.F.	222

DRAINAGE STRUCTURE FRA-270-1166
STA. 538+50 IR-270

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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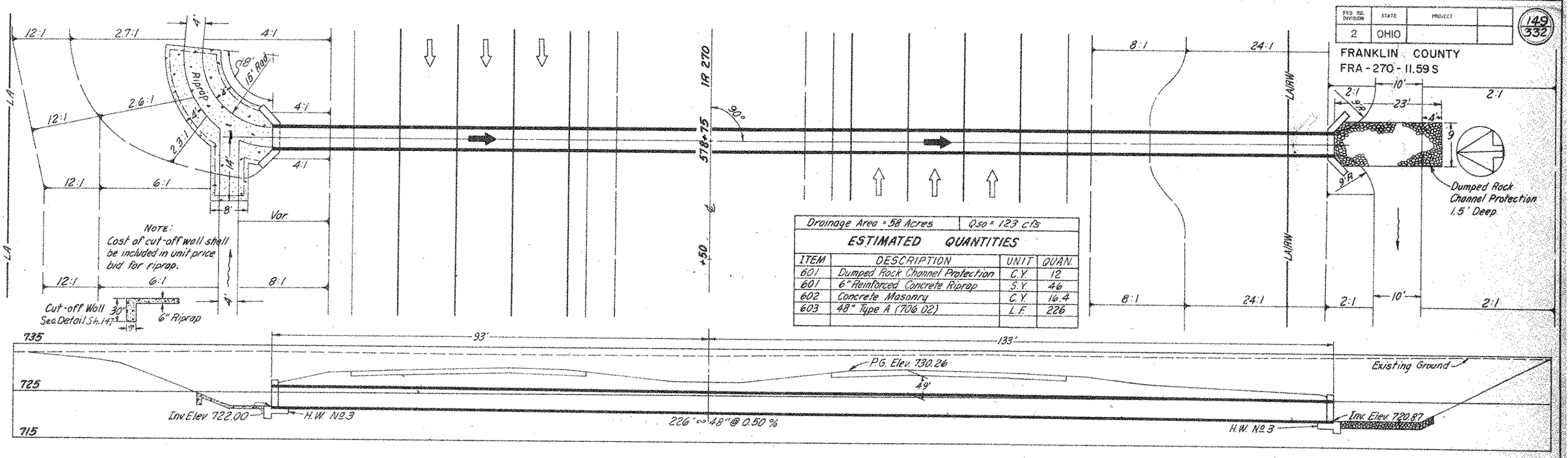
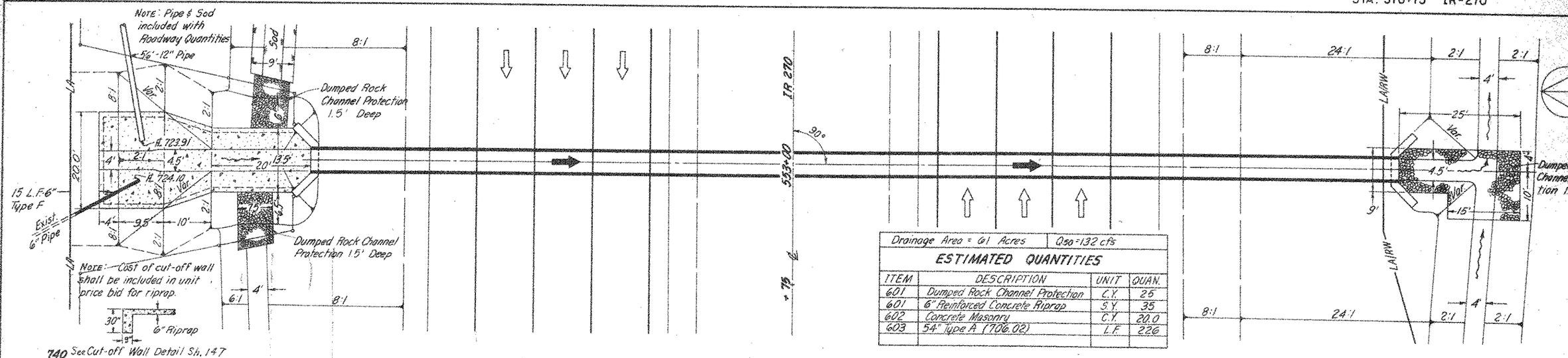
FRANKLIN COUNTY
FRA-270-11.59 S



Drainage Area = 58 Acres	Q50 = 123 cfs		
ESTIMATED QUANTITIES			
ITEM	DESCRIPTION	UNIT	QUAN.
601	Dumped Rock Channel Protection	C.Y.	12
601	6" Reinforced Concrete Riprap	S.Y.	46
602	Concrete Masonry	C.Y.	16.4
603	48" Type A (706.02)	L.F.	226

DRAINAGE STRUCTURE FRA-270-1242
STA. 578+75 IR-270



Drainage Area = 61 Acres	Q50 = 132 cfs		
ESTIMATED QUANTITIES			
ITEM	DESCRIPTION	UNIT	QUAN.
601	Dumped Rock Channel Protection	C.Y.	25
601	6" Reinforced Concrete Riprap	S.Y.	35
602	Concrete Masonry	C.Y.	20.0
603	54" Type A (706.02)	L.F.	226

DRAINAGE STRUCTURE FRA-270-1193
STA. 553+00 IR-270

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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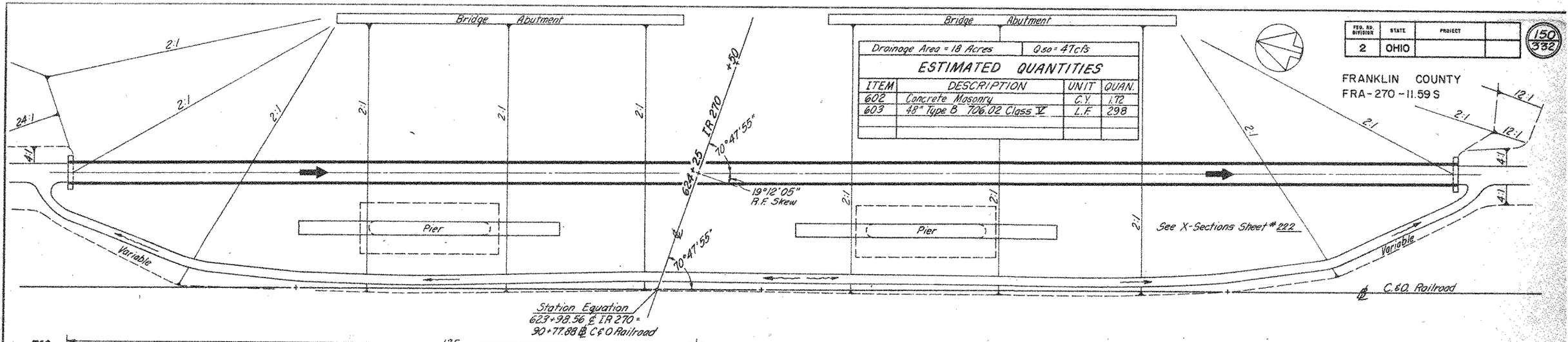
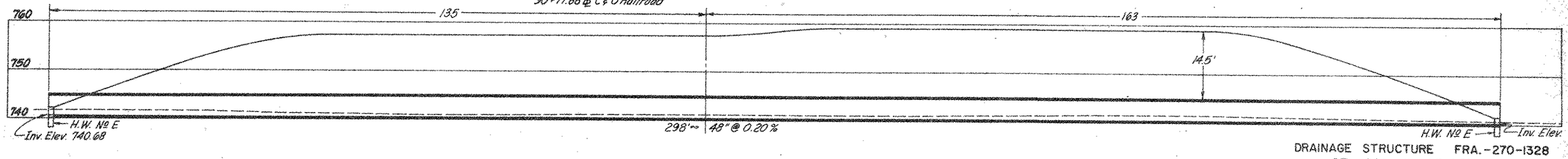
FRANKLIN COUNTY
FRA-270-11.59 S



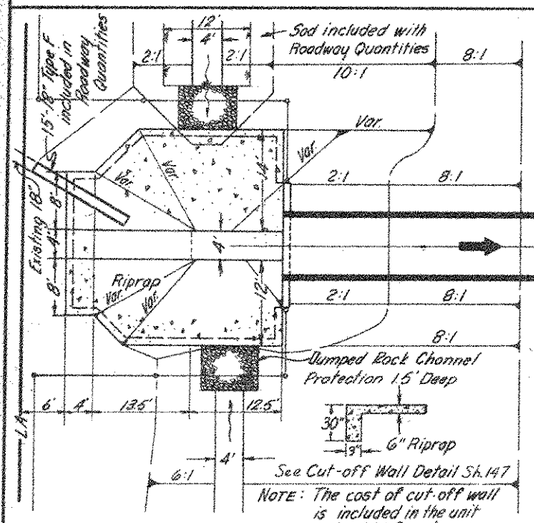
Drainage Area = 18 Acres | Qso = 47 cfs

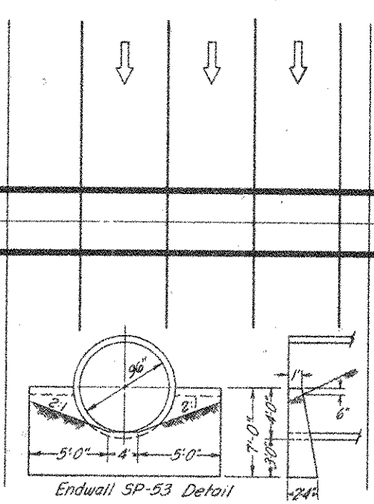
ESTIMATED QUANTITIES

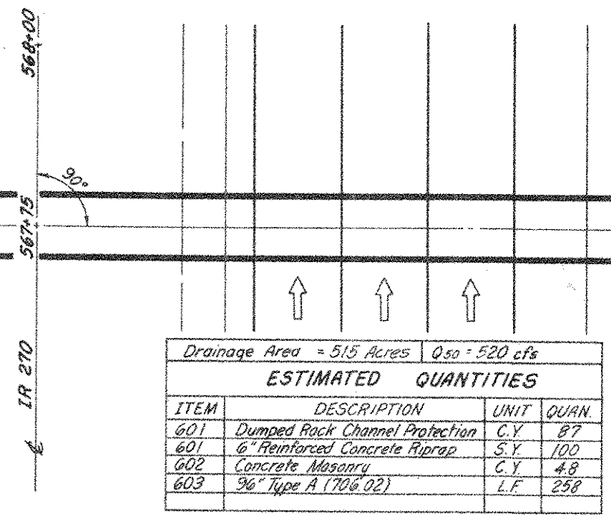
ITEM	DESCRIPTION	UNIT	QUAN.
602	Concrete Masonry	C.Y.	1.72
603	48" Type B 706.02 Class V	L.F.	298



DRAINAGE STRUCTURE FRA.-270-1328
STA. 624+25 IR-270



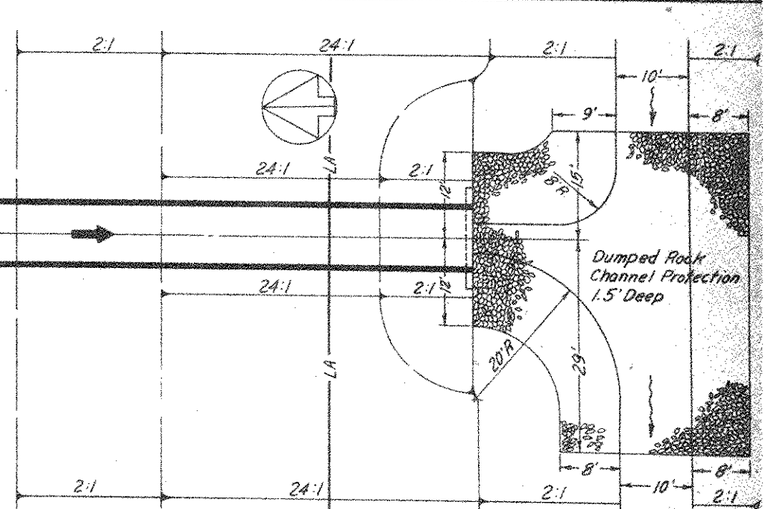


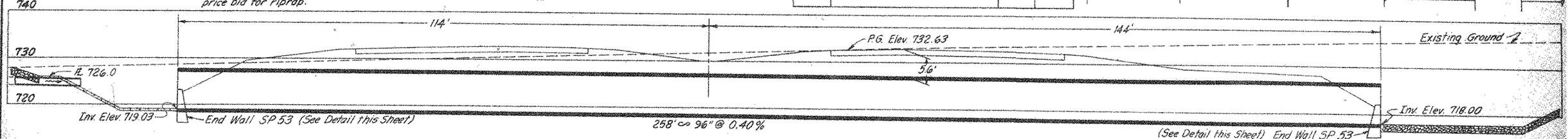


Drainage Area = 51.5 Acres | Qso = 520 cfs

ESTIMATED QUANTITIES

ITEM	DESCRIPTION	UNIT	QUAN.
601	Dumped Rock Channel Protection	C.Y.	87
601	6" Reinforced Concrete Riprap	S.Y.	100
602	Concrete Masonry	C.Y.	48
603	96" Type A (706.02)	L.F.	258





DRAINAGE STRUCTURE FRA.-270-1221
STA. 567+75 IR-270

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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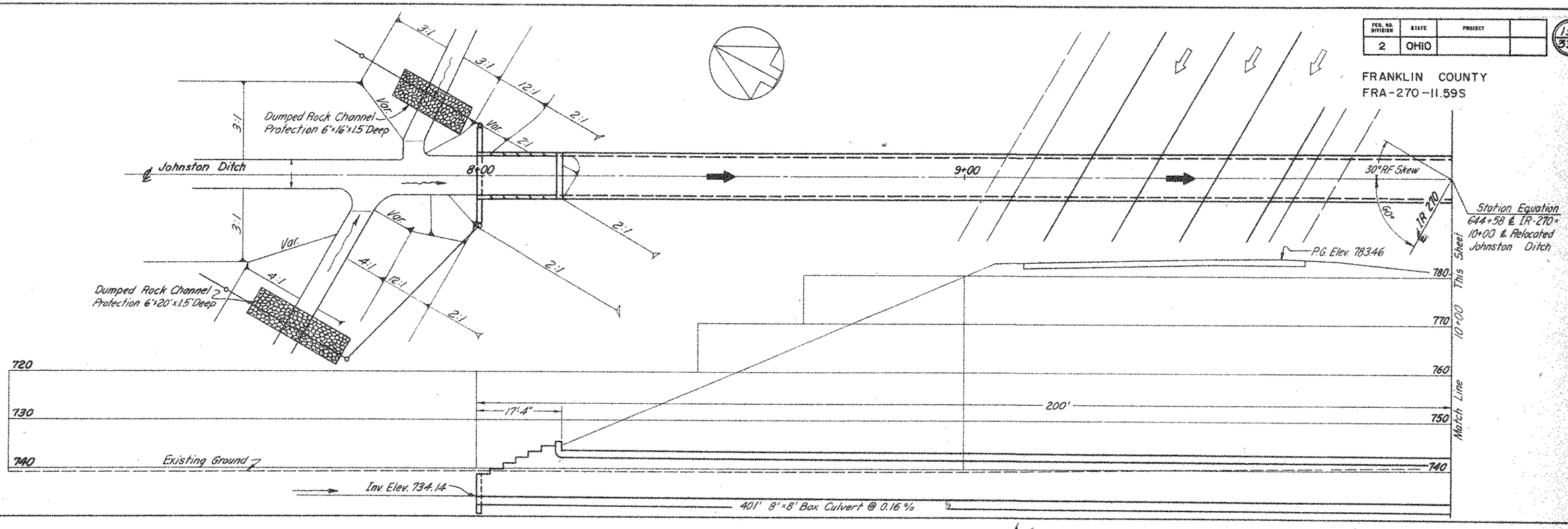
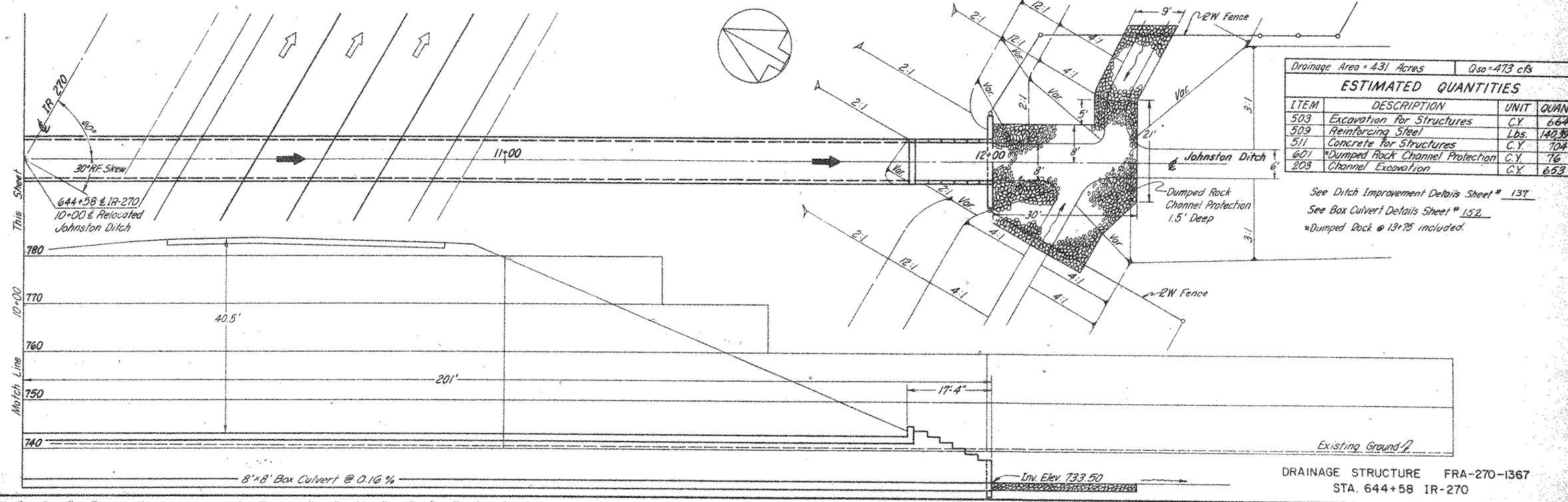
FRANKLIN COUNTY
FRA-270-11.59S





Drainage Area = 4.31 Acres | Q50 = 4.73 cfs

ESTIMATED QUANTITIES

ITEM	DESCRIPTION	UNIT	QUAN.
503	Excavation for Structures	C.Y.	664
509	Reinforcing Steel	Lbs.	140,397
511	Concrete for Structures	C.Y.	704
601	*Dumped Rock Channel Protection	C.Y.	76
208	Channel Excavation	C.Y.	653

See Ditch Improvement Details Sheet # 137
See Box Culvert Details Sheet # 152
*Dumped Rock @ 13+75 included.

DRAINAGE STRUCTURE FRA-270-1367
STA. 644+58 IR-270

FED. ROAD DIV. NO.	STATE	FED. AID PROJ. NO.	TYPE FUNDS
2	OHIO		

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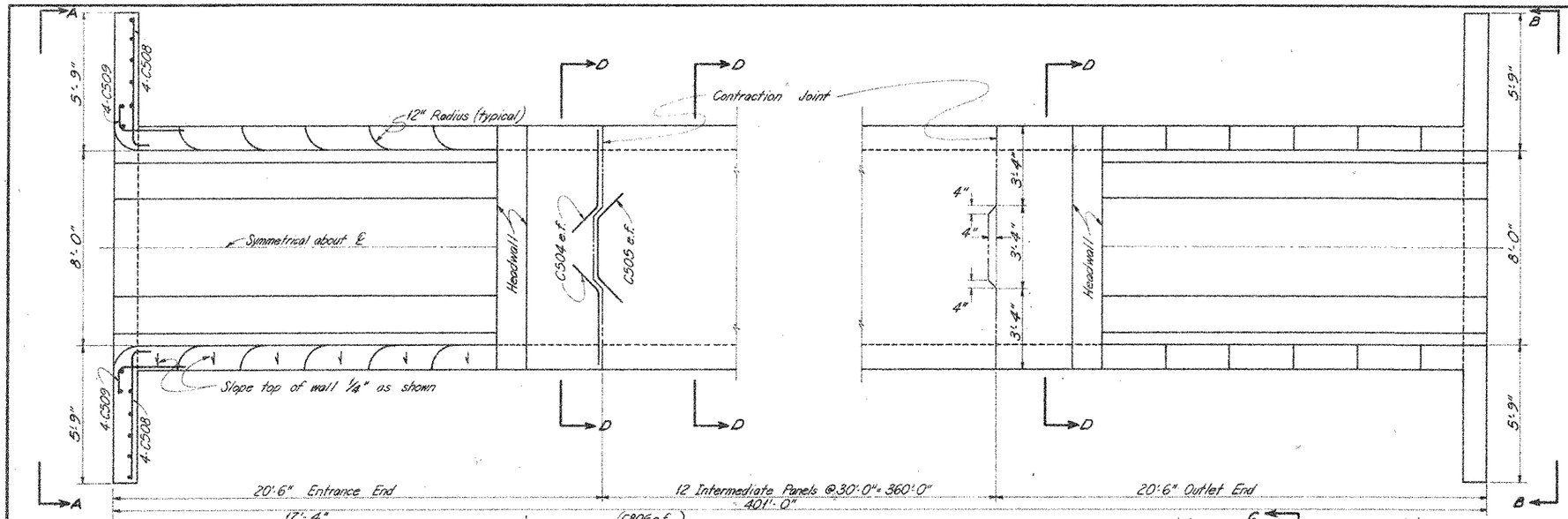
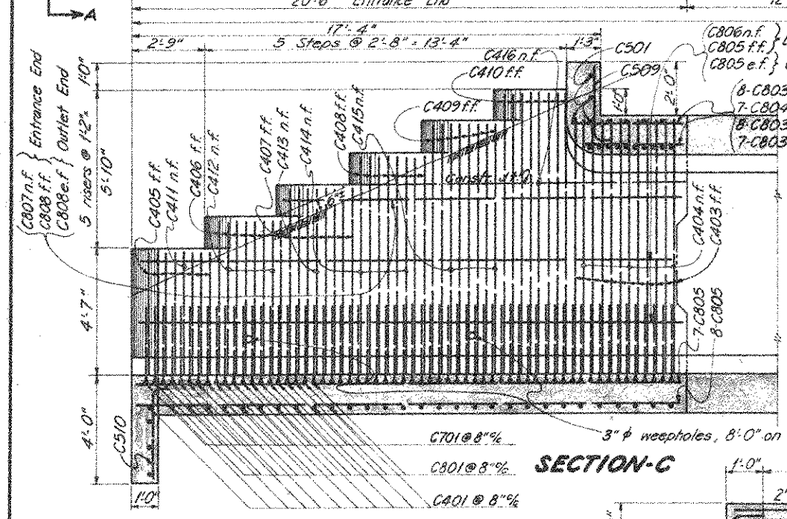
FRANKLIN COUNTY
FRA-270-11.59S

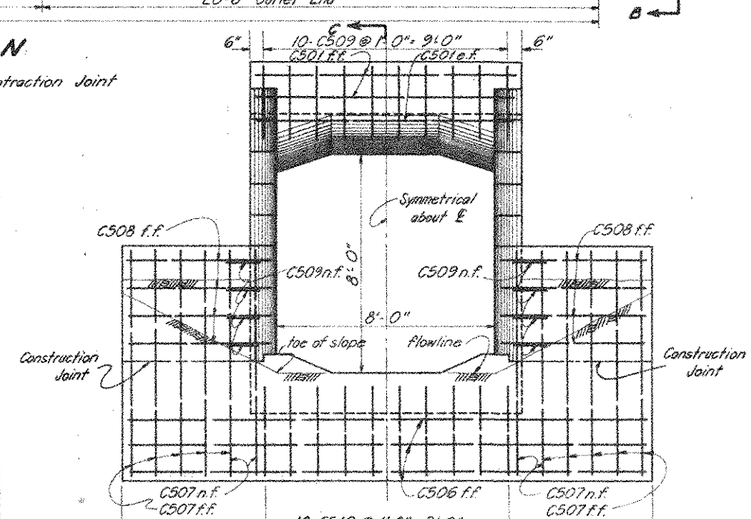


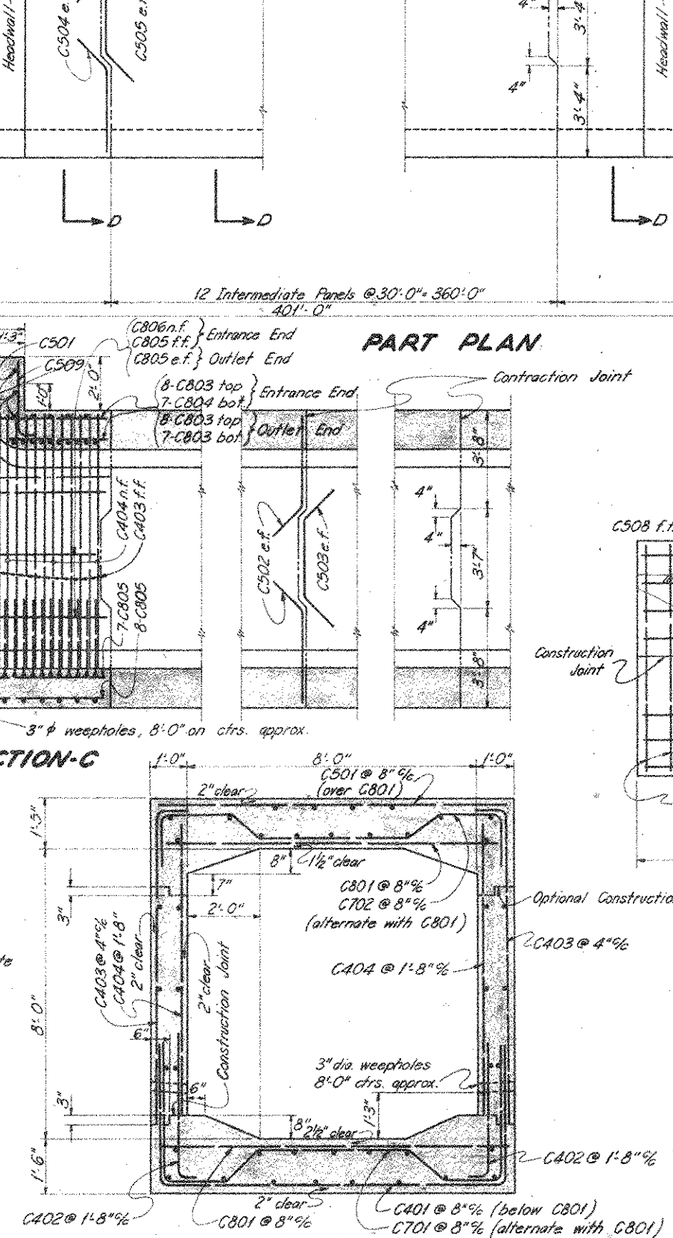


SECTION-C

NOTE: Underside of roof slab and side wall steps are curved as shown at the entrance end only.

NOTE: All longitudinal bars C802 in intermediate panels. For end panels see Section-C





SECTION-D

END VIEW-A

(VIEW-B similar except underside of roof slab and sidewall steps are not curved.)

EMBANKMENT shall be placed symmetrically on both sides of the culvert after the top slab is in place. Embankment over the barrel shall be placed in horizontal layers simultaneously with that on each side of the culvert.

CONCRETE shall be class "C".

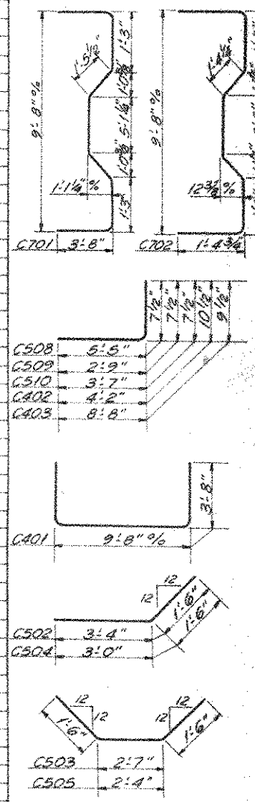
BAR SIZE is indicated in the bar mark. The first digit indicates the bar size number. For example C801 is a N° 8 size bar.

DESIGN DATA:
Concrete Class "C" - basic unit stress 1333 p.s.i.
Reinforcing Steel - ASTM A15, A16, A160, Deformed, Intermediate or Hard Grade. Basic unit stress 20,000 p.s.i.

REINFORCING STEEL LIST

Mark	N°	Length	Weight	Shape
C801	1150	9'-6"	29,170	S
C802	504	29'-8"	39,922	S
C803	23	4'-0"	246	S
C804	7	3'-8"	69	S
C805	42	19'-10"	2,224	S
C806	4	19'-4"	206	S
C807	2	14'-3"	76	S
C808	6	14'-9"	236	S
C701	590	17'-4"	20,903	B
C702	540	12'-10"	14,165	B
C501	556	9'-6"	5509	S
C502	104	4'-10"	524	B
C503	52	5'-7"	303	B
C504	104	4'-6"	488	B
C505	52	5'-4"	289	B
C506	6	19'-2"	120	S
C507	28	8'-3"	241	S
C508	16	5'-11"	99	B
C509	36	3'-3"	122	B
C510	20	4'-1"	85	B
C401	600	16'-9"	6,713	B
C402	480	4'-11"	1576	B
C403	2184	9'-4"	13,616	B
C404	444	8'-3"	2,447	S
C405	32	4'-0"	86	S
C406	32	5'-2"	110	S
C407	32	6'-4"	135	S
C408	32	7'-6"	160	S
C409	32	8'-8"	185	S
C410	32	9'-10"	210	S
C411	4	3'-9"	10	S
C412	8	4'-11"	26	S
C413	4	6'-1"	16	S
C414	8	7'-3"	39	S
C415	8	8'-5"	45	S
C416	4	9'-7"	26	S

Bend Diagrams



LEGEND
n.f. - near face
f.f. - far face
e.f. - each face

BURGESS & NIPLE LIMITED — CONSULTING ENGINEERS
COLUMBUS 12, OHIO

BOX CULVERT DETAILS
DRAINAGE STRUCTURE
FRA-270-1367

FRANKLIN COUNTY STA 644+58

DESIGNED	DRAWN	TRACED	CHECKED	REVISED DATE	REVISED
D.W. D.W.R	D.W.		D.W.T.	WBR 11-2-55	

CULVERT DETAILS

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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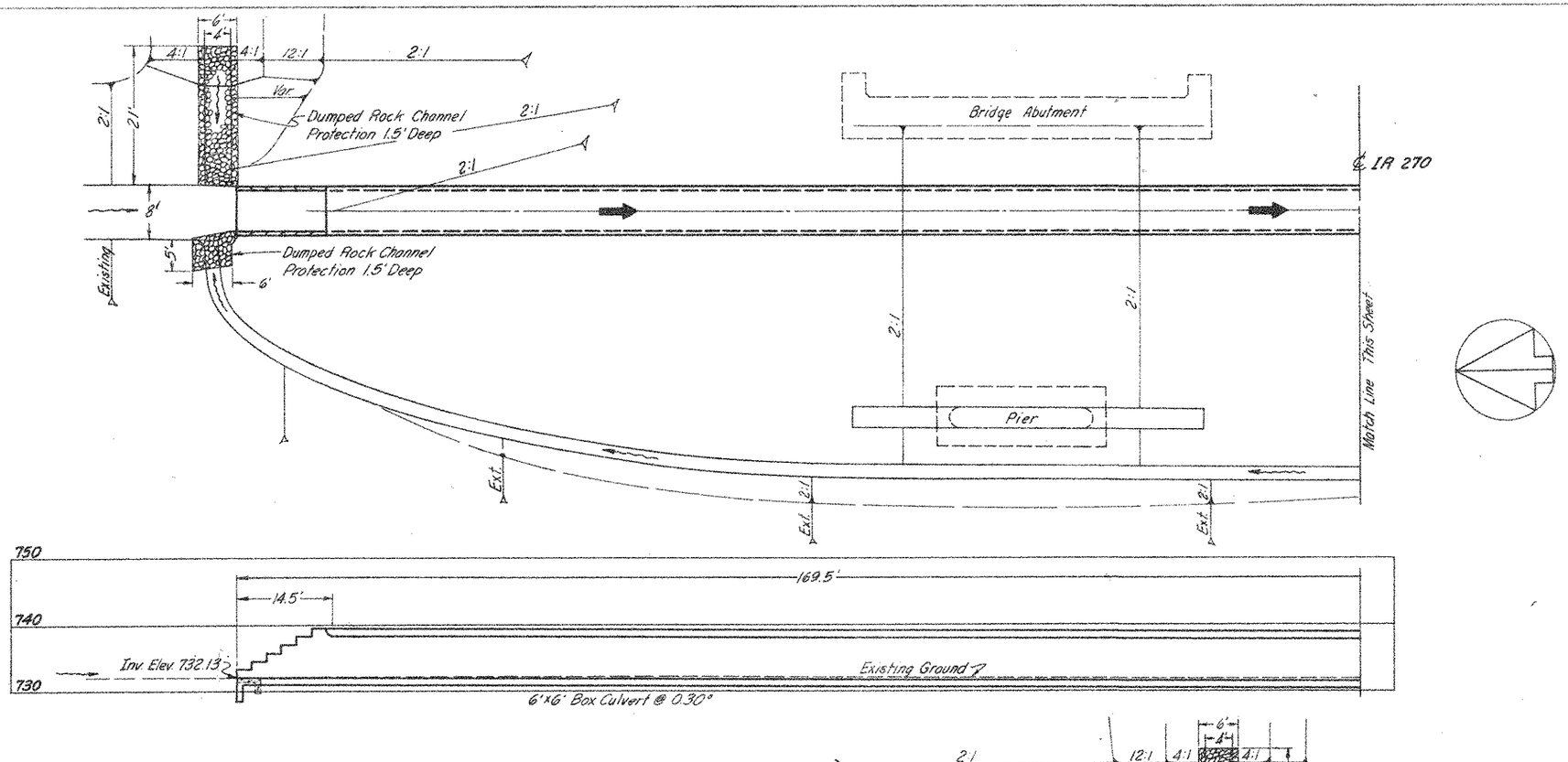
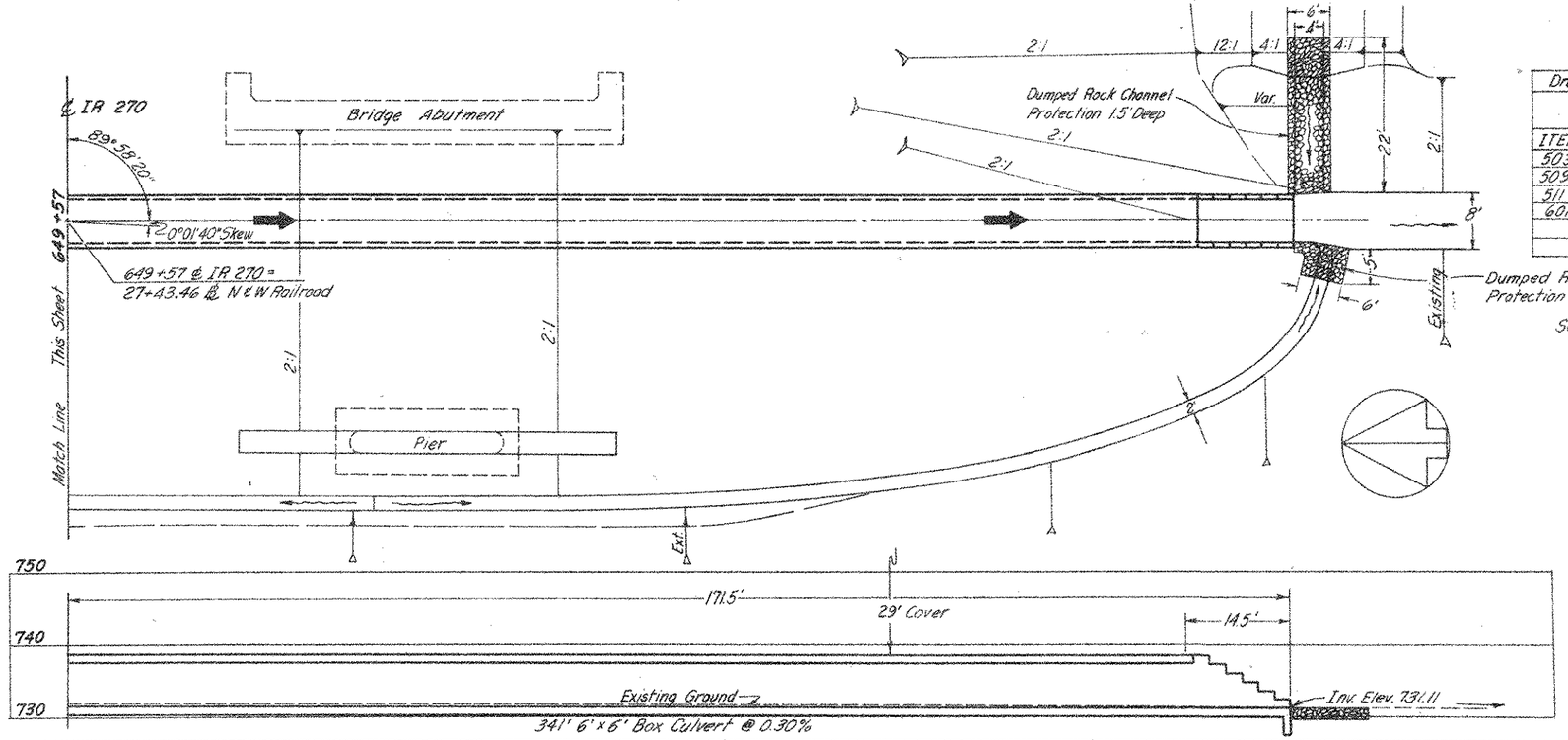
FRANKLIN COUNTY
FRA-270-11.59S





Drainage Area = 206 Acres | Q50 = 283 cfs

ESTIMATED QUANTITIES

ITEM	DESCRIPTION	UNIT	QUAN.
503	Excavation for Structures	C.Y.	178
509	Reinforcing Steel	Lbs.	62,052.
511	Concrete for Structures	C.Y.	330
601	Dumped Rock Channel Protection	C.Y.	42

DRAINAGE STRUCTURE FRA-270-1376
STA. 649+57 IR-270

CULVERT DETAILS

FED. ROAD DIV. NO.	STATE	FED. AID PROJ. NO.	TYPE FUNDS
2	OHIO		

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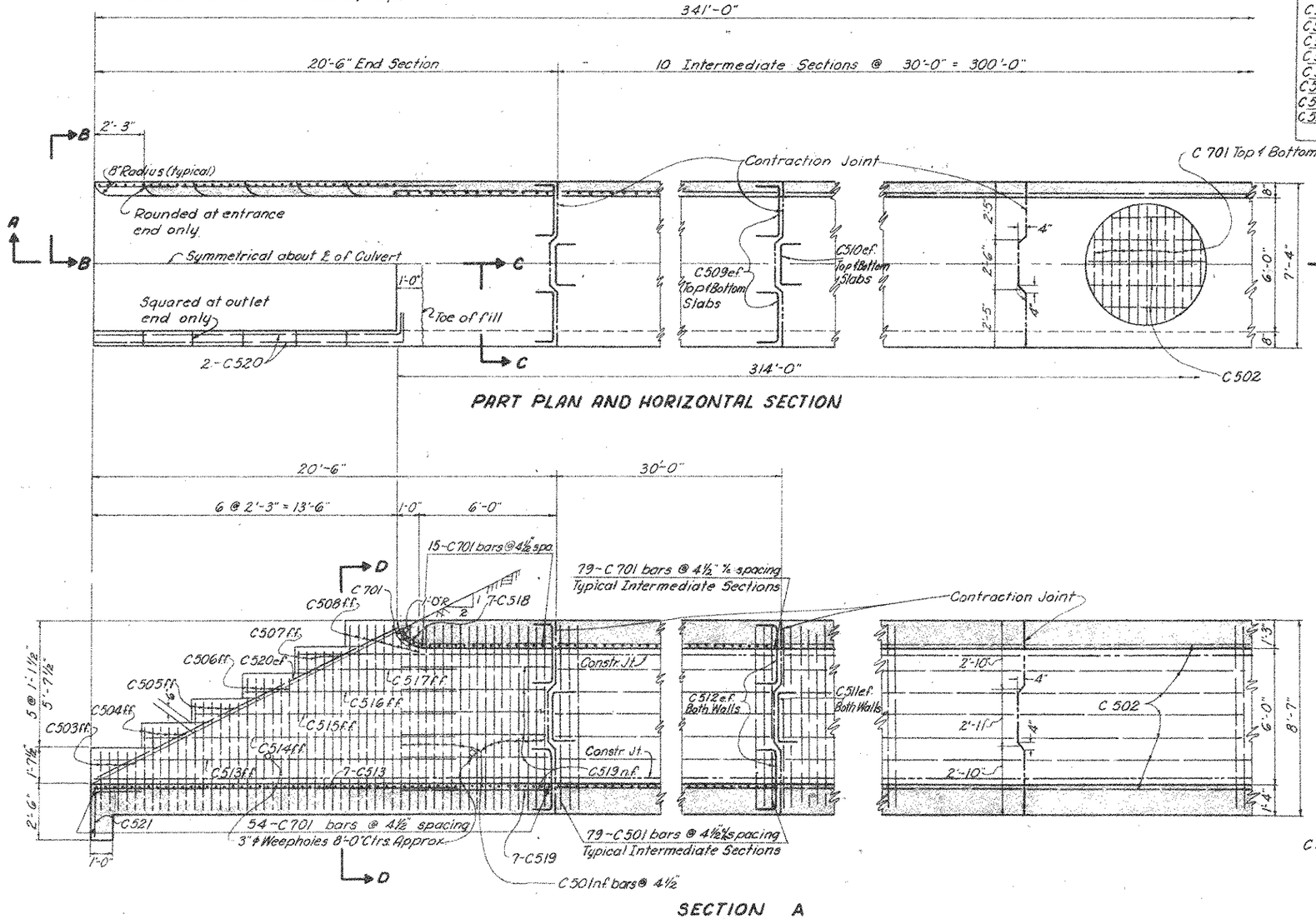
FRANKLIN COUNTY
FRA-270-11.595

EMBANKMENT shall be placed symmetrically on both sides of the culvert after the top slab is in place. Embankment over the barrel shall be placed in horizontal layers simultaneously with that on each side of the culvert.

CONCRETE shall be Class "C".

BAR SIZE is indicated in the bar mark. The first digit where three are used, indicates the bar size number. For example, C701, is a No. 7 size bar.

DESIGN DATA: Concrete Class "C" basic unit stress 1333 psi, Reinforcing Steel - ASTM A15, A16, A160 Deformed, Intermediate or Hard Grade. Basic unit stress 20,000 psi.

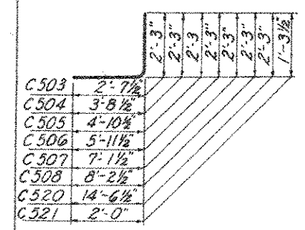


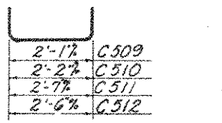
PART PLAN AND HORIZONTAL SECTION

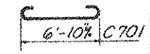
SECTION A

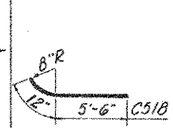
REINFORCING STEEL LIST

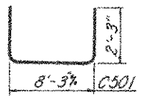
Bending Diagram





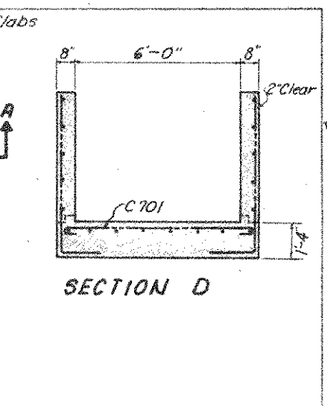




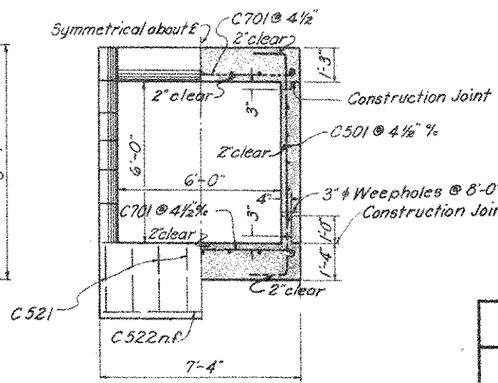


Mark	№	Length	Weight	Shape
C701	1724	8'-6"	29953	B
C501	1652	12'-6"	21,538	B
C502	240	29'-7"	7405	S
C503	20	4'-9	99	B
C504	24	5'-10"	146	B
C505	24	7'-0"	175	B
C506	24	8'-1"	202	B
C507	24	9'-3"	232	B
C508	36	10'-4"	388	B
C509	88	3'-1"	283	B
C510	44	3'-2"	145	B
C511	44	3'-7"	164	B
C512	88	3'-6"	321	B
C513	18	15'-10"	297	S
C514	4	13'-7"	57	S
C515	4	11'-4"	47	S
C516	4	9'-1"	38	S
C517	4	6'-10"	29	S
C518	14	6'-6"	95	B
C519	34	6'-6"	231	S
C520	8	16'-8"	139	B
C521	16	3'-2"	53	B
C522	2	7'-0"	15	S

Note: All longitudinal bars in Intermediate Sections C502. For End Panels See Section A.



SECTION D



VIEW B TYPICAL SECTION C

Note: Underside of roof slab and sidewall steps are curved as shown in View B at the entrance end only.

LEGEND
ef – each face
nf – near face
ff – far face

BURGESS & NIPLE LIMITED — CONSULTING ENGINEERS
COLUMBUS 12, OHIO

BOX CULVERT DETAILS
DRAINAGE STRUCTURE
FRA-270-1376

FRANKLIN COUNTY STA. 649+57

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED DATE	REVISED
L.Z. W.C.R.	L.Z.		D.W.	W.C.R. 11-16-65	

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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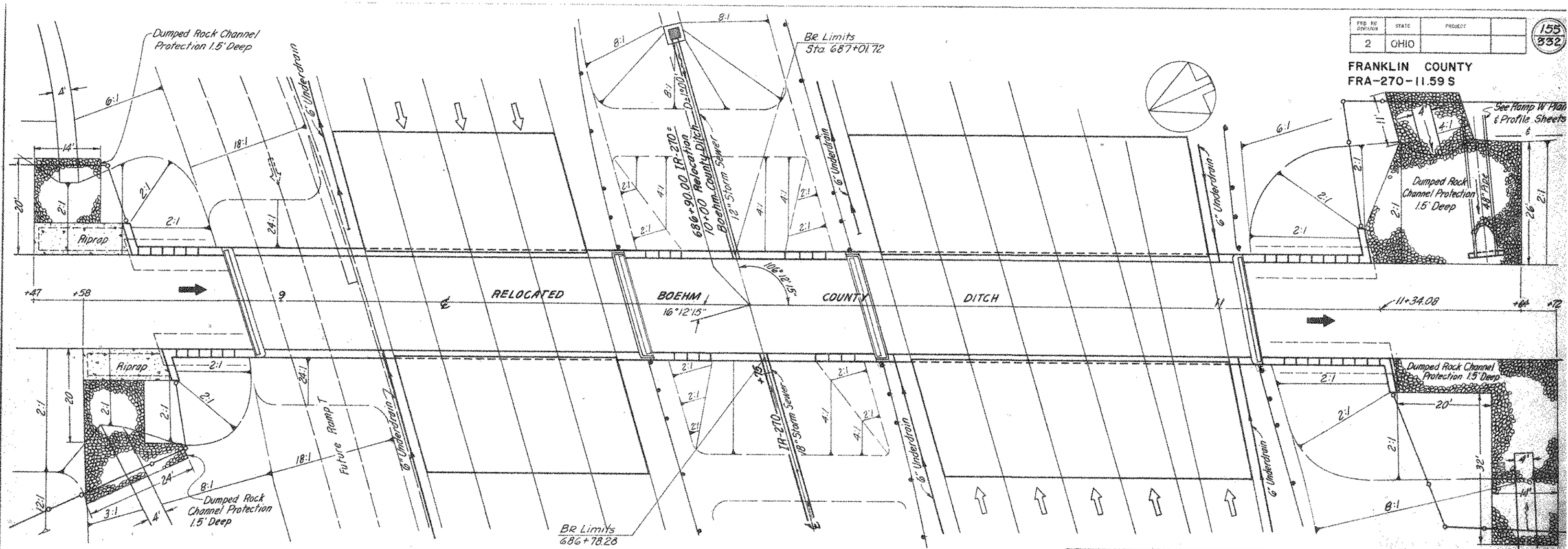
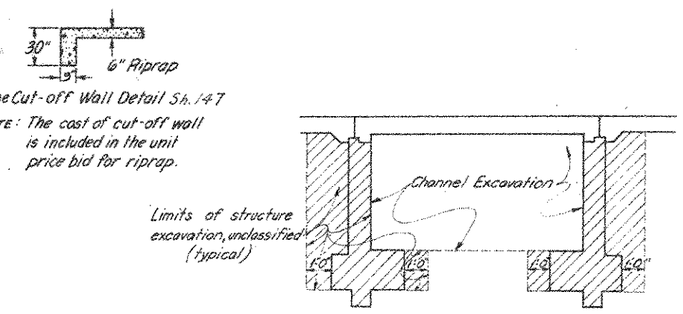
FRANKLIN COUNTY
FRA-270-11.59 S





See Cut-off Wall Detail Sh. 147

Note: The cost of cut-off wall is included in the unit price bid for riprap.

IR 270 OVER BOEHM DITCH
PROPOSED STRUCTURE FRA-270-1446
TYPE: Single Span Reinforced Concrete
SPAN: 20.00' Face to Face Abutments
LOAD FREQUENCY RATING: CF = 2000 (57) (Adequate for AASHO Alternate Loading)
ROADWAY: Varies
SKEW: 16°12'15" Left Forward
WEARING SURFACE: 1" Monolithic
APPROACH SLABS: 25' Long
ALIGNMENT: D = 1°00'
SUPERELEVATION: 0.032 ft

See Boehm Ditch Channel Improvement Sheet # 139 & 140

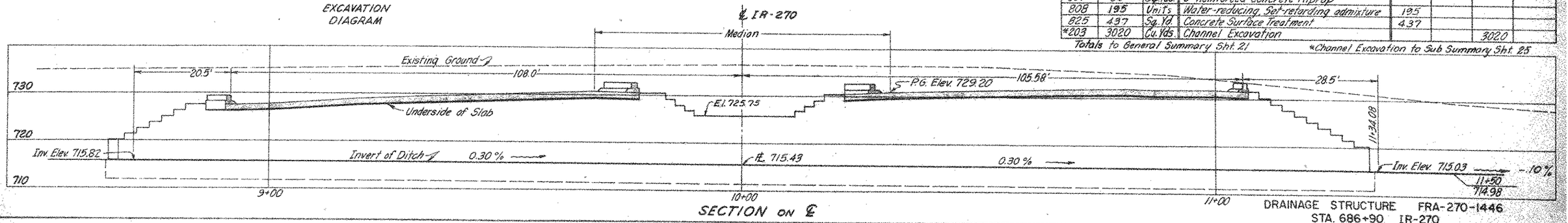
See Culvert General Plan and Detail Sheets # 156, 157 - 160

Drainage Area = 1622 Acres — Q10 = 425 cfs — Q50 = 580 cfs

FRA-270-1446 **ESTIMATED QUANTITIES**

ITEM	TOTAL	UNIT	DESCRIPTION	SUPER.	ABUT.	GENERAL
503	Lump	Sum	Cofferdams, Cribs, and Sheeting			Lump
503	780	Cu. Yds.	Excavation for Structures, Unclassified		780	
509	75,324	Lbs.	Reinforcing Steel	41,198	34,126	
511	195	Cu. Yds.	Class "C" Concrete, Superstructure	195		
511	443	Cu. Yds.	Class "E" Concrete, Abutments above Footings		443	
511	545	Cu. Yds.	Class "E" Concrete Footings		545	
512	20	Lin. Ft.	Waterproofing, Premolded Sealing Strip		20	
516	21	Sq. Ft.	½" Preformed Expansion Joint Filler (AASHO M-153)	21		
517	93.33	Lin. Ft.	Railing (Bridge Railing, Type 1)	93.33		
518	350	Cu. Yds	Porous Backfill		350	
601	126	Cu. Yds.	Dumped Rock Channel Protection			
601	30	Sq. Yds.	6" Reinforced Concrete Riprap			
808	195	Units	Water-reducing, Set-retarding admixture	19.5		
825	437	Sq. Yd.	Concrete Surface Treatment	437		
*203	3020	Cu. Yds.	Channel Excavation			3020

Totals to General Summary Sht. 21 — *Channel Excavation to Sub Summary Sht. 25



SECTION on ℄

DRAINAGE STRUCTURE FRA-270-1446
STA. 686+90 IR-270

CULVERT DETAILS

FED. ROAD SYS. NO.	STATE	FED. AID PROJ. NO.	TYPE FUNDS
2	OHIO		

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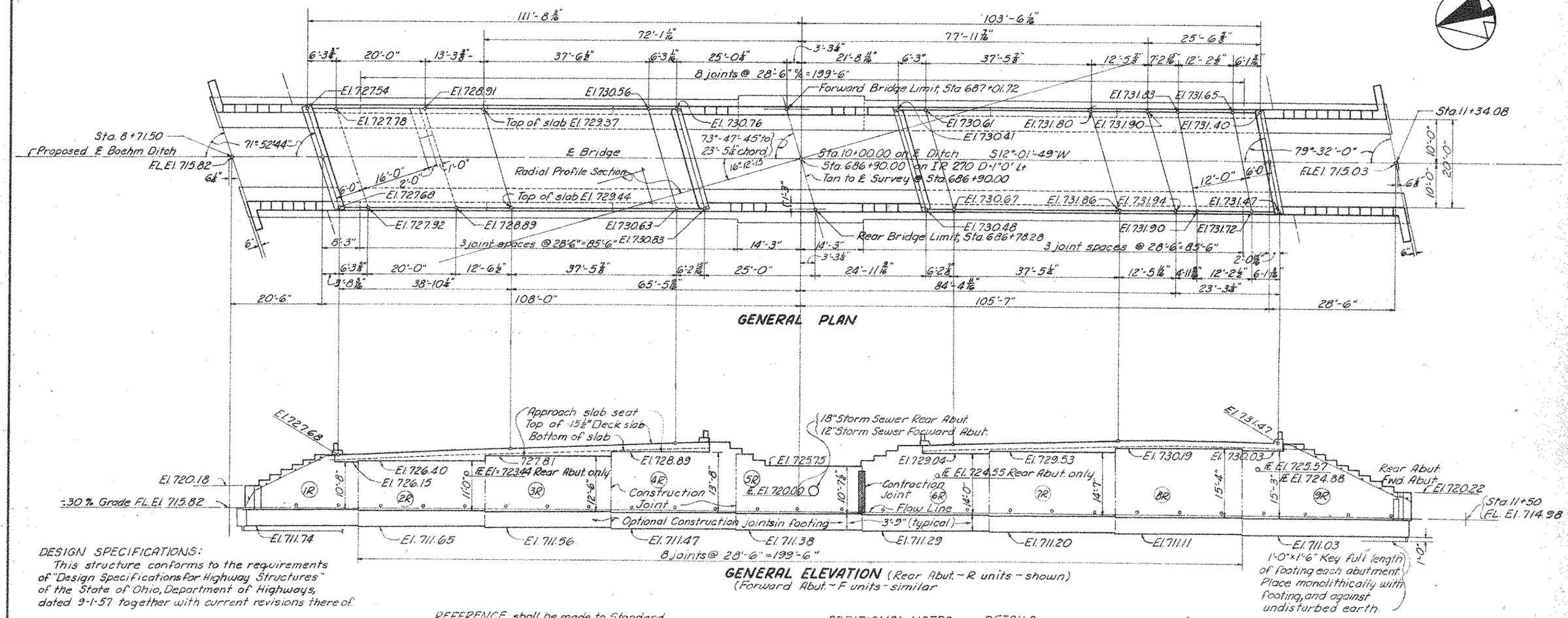
FRANKLIN COUNTY
FRA-270-11.59 S.



GENERAL PLAN

GENERAL ELEVATION (Rear Abut. - R units - shown)
(Forward Abut. - F units - similar

DESIGN SPECIFICATIONS:
This structure conforms to the requirements of "Design Specifications for Highway Structures" of the State of Ohio, Department of Highways, dated 9-1-57 together with current revisions there of.

DESIGN DATA:
Design Loading - CF = 2000 (57)
Concrete Class "C" - basic unit stress 1333 psi.
Concrete Class "E" - basic unit stress 1133 psi.

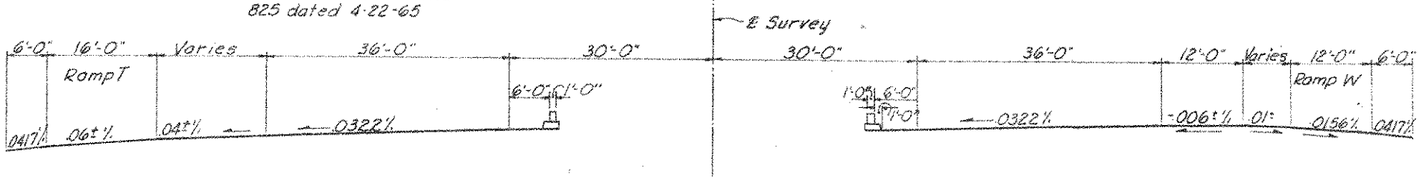
Reinforcing Steel - ASTM A15, A16, A160, Deformed, Intermediate or Hard Grade

UTILITY LINES: All expense in relocating affected utility lines shall be borne by the Owners. The Contractor and Owners are requested to cooperate by arranging their work in such a manner that inconvenience to either will be held to a minimum.

REFERENCE shall be made to Standard Drawings
AS-1-54 dated 8-10-65
SB-1-64 revised 11-8-65 sheet 1 and 2.
BR-1-65 revised 11-24-65 sheet 1.
and to Supplemental Specifications
808 revised 2-7-66 and
825 dated 4-22-65

ADDITIONAL NOTES AND DETAILS:
For additional notes and details see Standard drawing No. SB-1-64 sheet 1 and 2.

FOUNDATION BEARING PRESSURE: Abutment footings are designed for a maximum bearing pressure of 1.3 tons per square ft.



RADIAL SECTION PROFILE
(See "General Plan" for Elevations on Bridge Limits)

BURGESS & NIPLE LIMITED — CONSULTING ENGINEERS
COLUMBUS 13, OHIO

GENERAL PLAN AND ELEVATION
BRIDGE No. FRA-270-1446
I.R. 270 OVER
BOEHM DITCH
FRANKLIN COUNTY STA. 686+90.00

DESIGNED	DRAWN	TRACED	CHECKED	REVISED DATE	REVISED
KEB	KEB	LZ	BWJ	WOR 5-14-66	

FED. ROAD DIV. NO.	STATE	FED. AID PROJ. NO.	TYPE FUNDS
2	OHIO		

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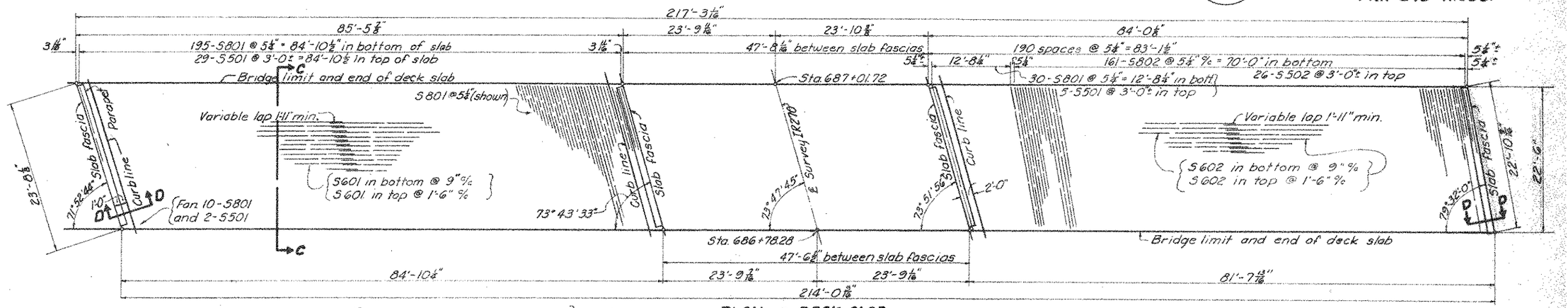
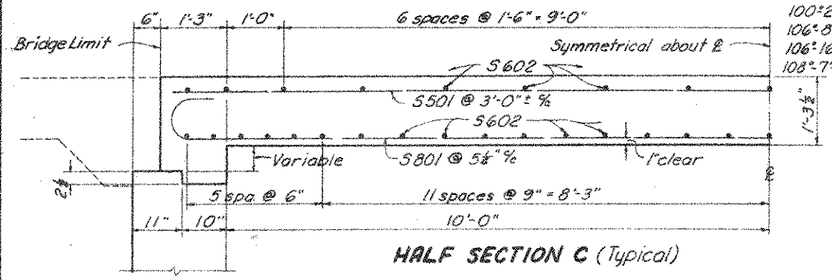
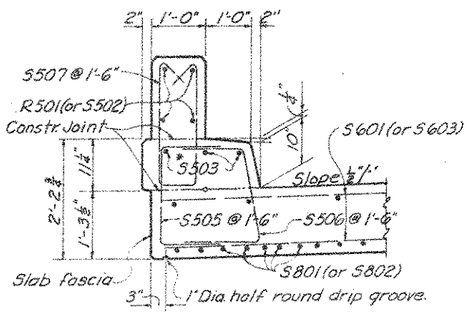
FRANKLIN COUNTY
FRA-270-11.59S.



PLAN OF DECK SLAB

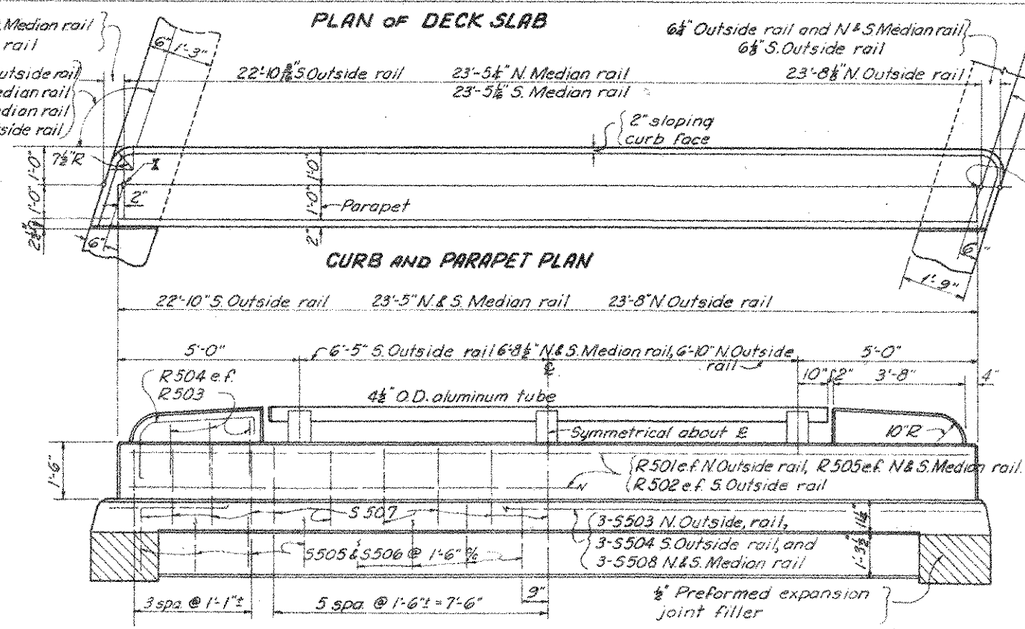


HALF SECTION C (Typical)



SECTION-D

* S503 in North Outside curb
S504 in South Outside curb
S508 in N. & S. Median curb



CURB AND PARAPET PLAN

ELEVATION OF BRIDGE RAILING - TYPE I

DECK CONSTRUCTION JOINT
A longitudinal contruction joint in the slab, prefererably at or near the centerline of each section will be permitted.

CURBS shall be placed after the shoring under the slab has been released sufficiently to permit the slab spans to attain full dead load deflection.

SLAB: 15 1/2" Slab thickness includes 1" for monolithic wearing surface. The concrete quantities have been computed on this basis.

BURGESS & NIPLE LIMITED — CONSULTING ENGINEERS
COLUMBUS 12, OHIO

SUPERSTRUCTURE
BRIDGE No. FRA-270-1446
I R 270 OVER
BOEHM DITCH
FRANKLIN COUNTY STA. 686+90.00

DESIGNED	DRAWN	TRACED	CHECKED	REVISED DATE	REVISED
KEO	KEO	LZ	[illegible]	5-11-66 KEO	

FED. ROAD DIV. NO.	STATE	FED. AID PROJ. NO.	TYPE FUNDS
2	OHIO		

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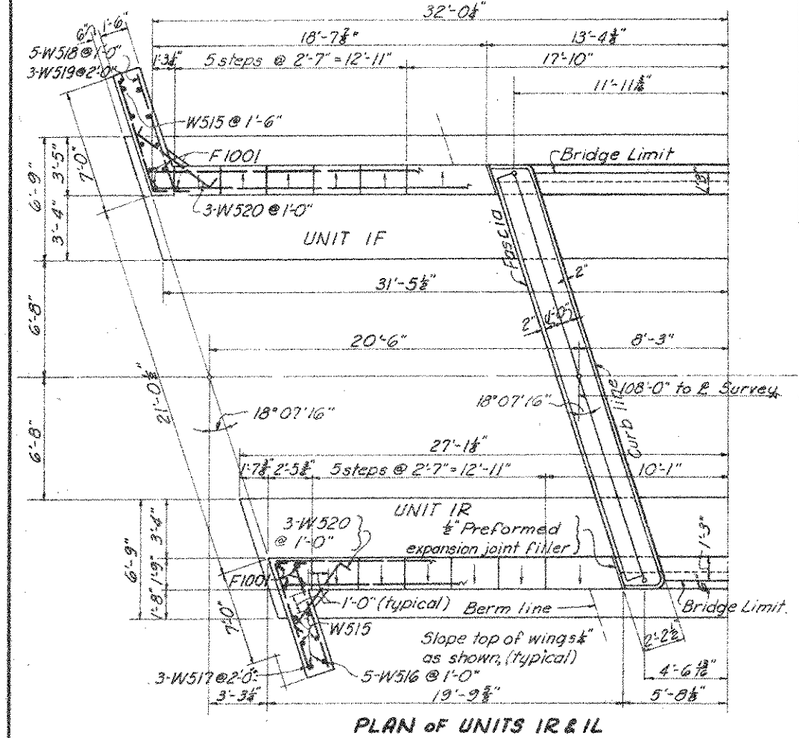
FRANKLIN COUNTY
FRA-270-11.59S

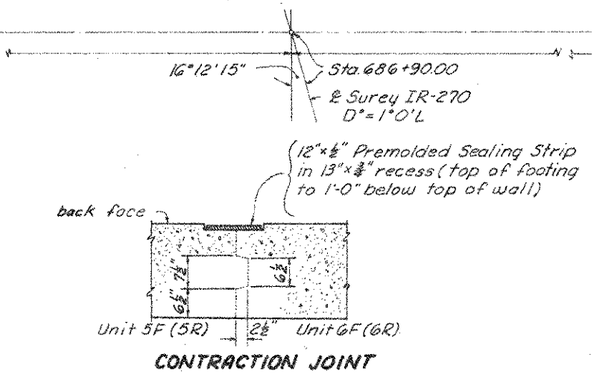
TABLE OF ABUTMENT DATA-UNIT 2108-REAR & FORWARD

* UNITS	FOOTING ELEVATION	APPROACH SLAB SEAT ELEV.	WALL HEIGHT "H"	No. OF A501 BARS	"AG" BAR MARK	"A8" BAR MARK
2R & 2F	711.65	726.40	11'-0"	24	A601	A801
3R & 3F	711.56	727.81	12'-6"	28	A602	A802
4R & 4F	711.47	728.89	13'-8"	28	A603	A803
5R & 5F	711.38		10'-7½"	24	A607	
6R & 6F	711.29	729.04	14'-0"	24	A606	A806
7R & 7F	711.20	729.53	14'-7"	32	A604	A804
8R & 8F	711.11	730.19	15'-4"	32	A605	A805

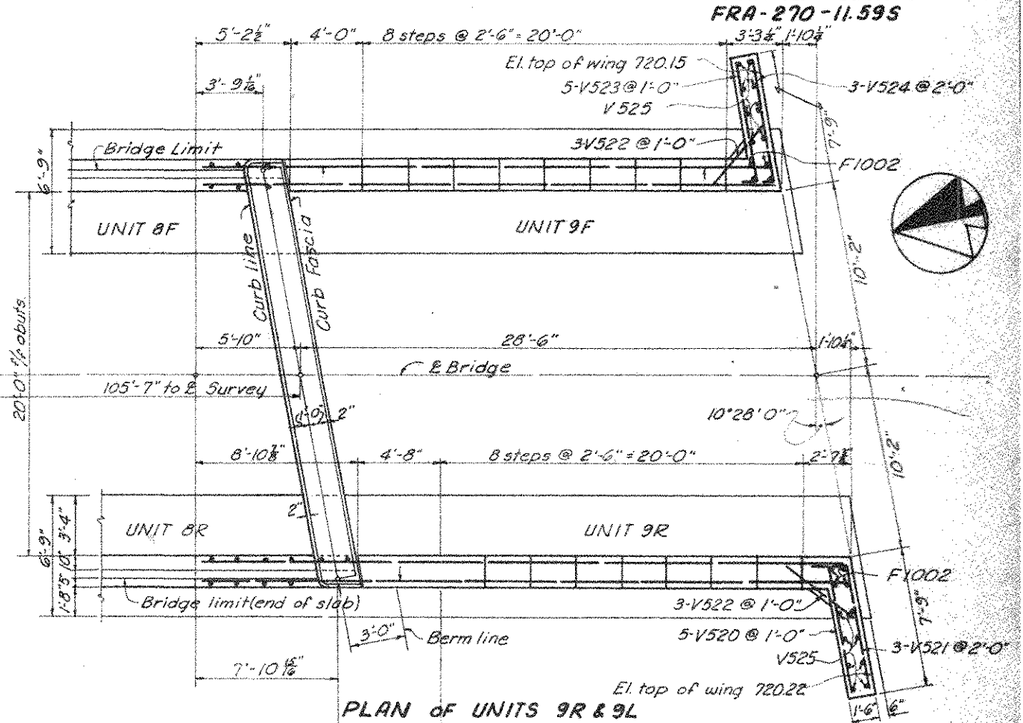
* See Sheet No 159 for details of UNITS 4R, 4F, 5R, 5F, 6R and 6F.



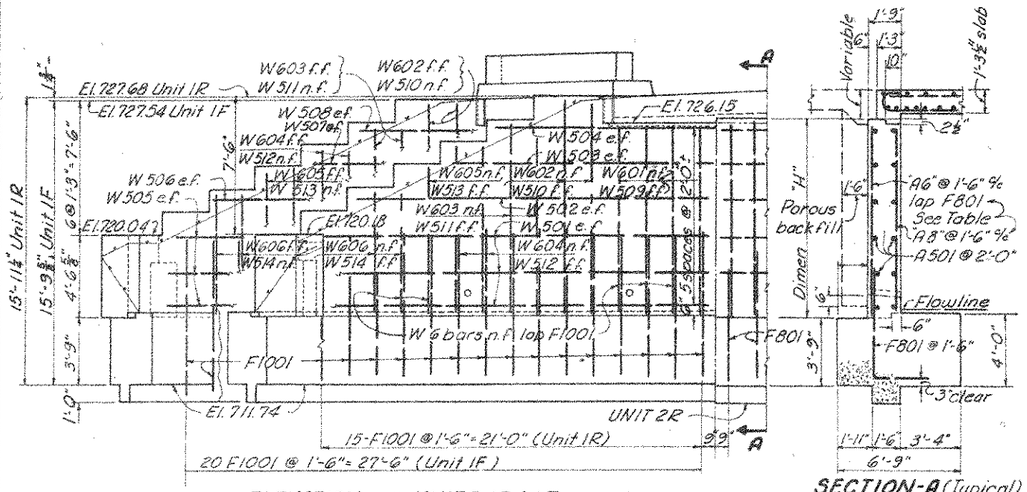
PLAN of UNITS 1R & 1L



CONTRACTION JOINT

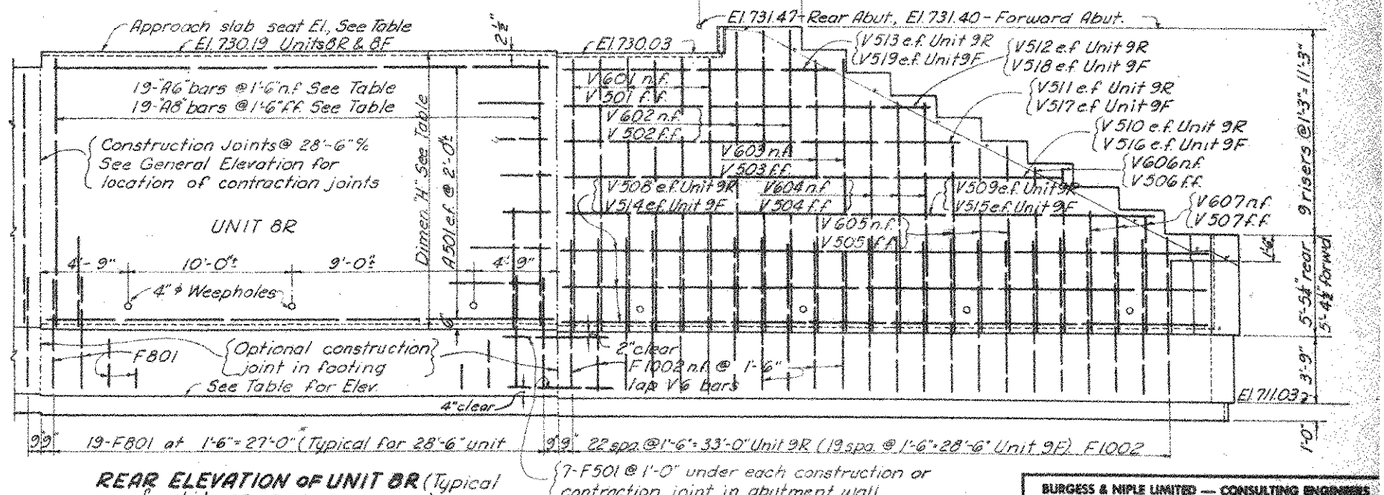


PLAN of UNITS 9R & 9L



ELEVATION of UNITS 1R & 1F

SECTION-A (Typical)
Except For 5R & 5F See Sheet 159 For 5R & 5F



REAR ELEVATION of UNIT 8R (Typical for Units 2R, 2F, 3R, 3F, 7R, 7F & 8F)

REAR ELEVATION of UNIT 9R
(Unit 9F similar)

LEGEND
n.f. = near face
f.f. = far face
e.f. = each face

BURGESS & NIPLE LIMITED — CONSULTING ENGINEERS
COLUMBUS 12, OHIO

SUBSTRUCTURE
BRIDGE No. FRA-270-1446
IR-270 OVER BOEHM DITCH

FRANKLIN COUNTY STA 686+90.00

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED DATE	REVISED
A.E.B.	A.E.B.	L.Z.	[illegible]	W.W.R. 8-16-66	

FED. ROAD DIV. NO.	STATE	FED. AID PROJ. NO.	TYPE FUNDS
2	OHIO		

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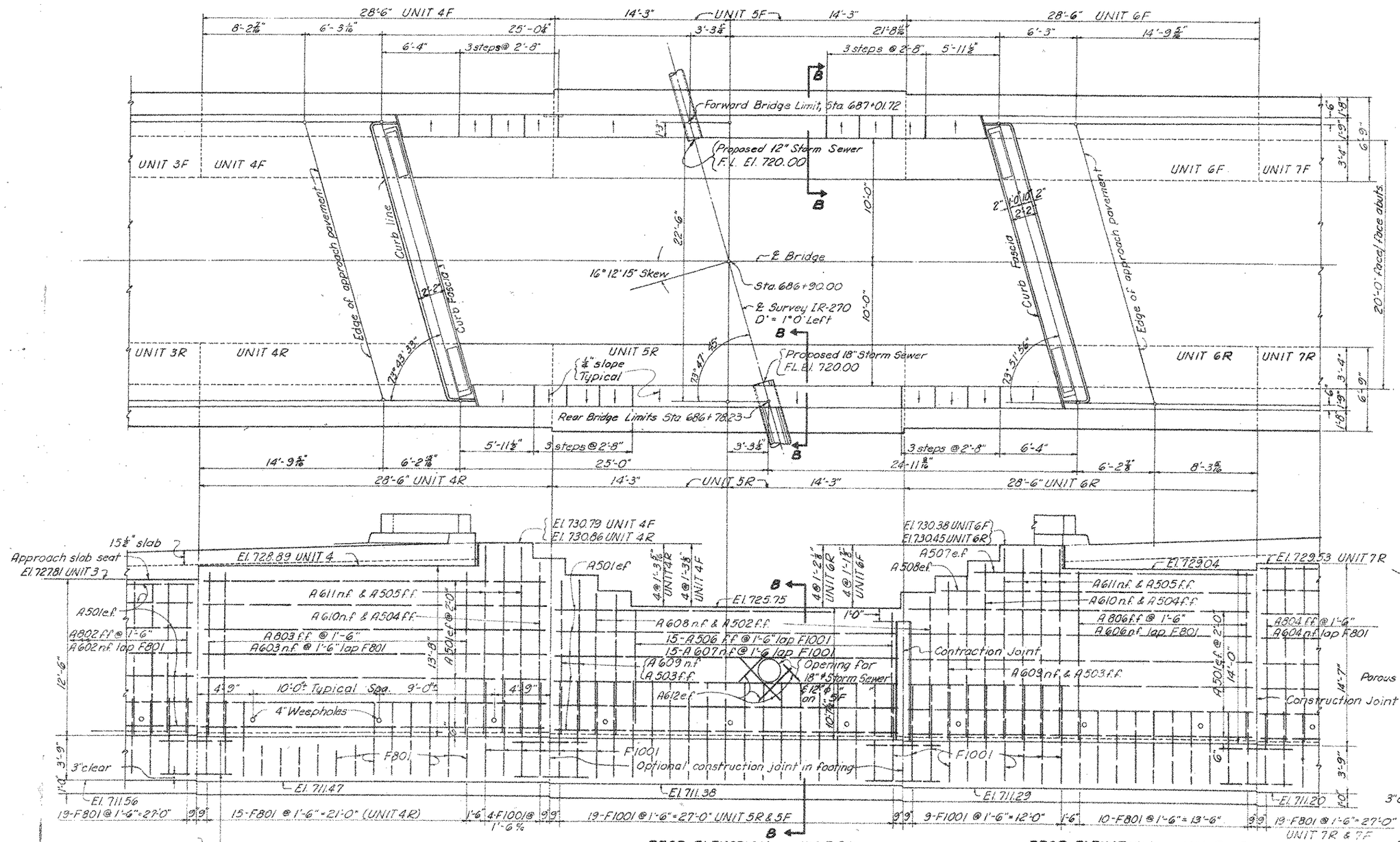
332

FRANKLIN COUNTY
FRA-270-11.59S



BURGESS & NIPLE LIMITED — CONSULTING ENGINEERS
COLUMBUS 12, OHIO

SUBSTRUCTURE
BRIDGE No. FRA-270-1446
IR-270 OVER BOEHM DITCH
FRANKLIN COUNTY STA 686+90.00

DESIGNED	DRAWN	TRACED	CHECKED	REVISED DATE
K.E.S.	K.E.S.	L.Z.	[illegible]	APR 3-14-66

FED. ROAD DIV. NO.	STATE	FED. AID PROJ. NO.	TYPE FUNDS
2	OHIO		

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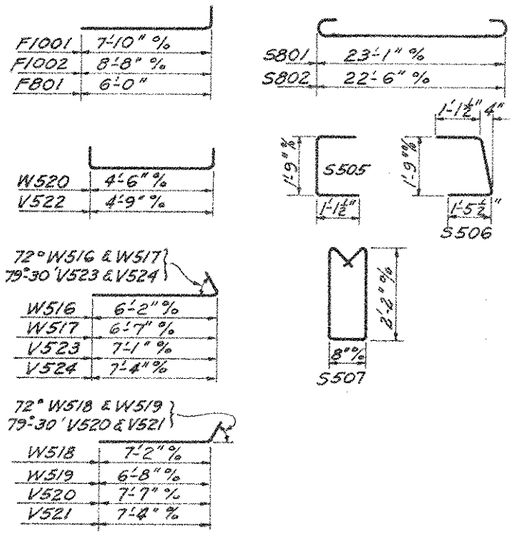
FRANKLIN COUNTY
FRA-270-11.59 S

REINFORCING STEEL LISTS

Mark	No.	Length	Weight	Shape
SUPERSTRUCTURE				
S801	225	25'-3"	15,169	B
S802	161	24'-8"	10,603	B
S601	100	43'-6"	6534	S
S602	100	42'-9"	6421	S
S501	34	23'-0"	816	S
S502	26	22'-6"	610	S
S503	3	24'-4"	76	S
S504	3	23'-6"	74	S
S505	64	3'-9"	250	B
S506	64	4'-1"	273	B
S507	38	5'-7"	221	B
S508	6	24'-1"	151	S
ABUTMENTS (UNITS 1R & 1F).				
F1001	43	8'-11"	1,650	B
W601	12	10'-6"	189	S
W602	4	11'-9"	71	S
W603	4	10'-6"	63	S
W604	4	9'-3"	56	S
W605	3	8'-0"	36	S
W606	4	6'-9"	41	S
W501	6	24'-6"	153	S
W502	2	20'-0"	42	S
W503	2	14'-11"	31	S
W504	2	12'-4"	26	S
W505	6	31'-8"	198	S
W506	2	27'-10"	58	S
W507	2	22'-8"	47	S
W508	2	20'-1"	42	S
W509	12	10'-0"	125	S
W510	4	11'-6"	48	S
W511	4	10'-3"	43	S
W512	4	9'-0"	38	S
W513	3	7'-9"	24	S
W514	4	6'-6"	27	S
W515	12	4'-2"	52	S
W516	5	6'-8"	35	B
W517	3	7'-1"	22	B
W518	5	7'-8"	40	B
W519	3	7'-2"	22	B
W520	6	5'-6"	34	B

Bending Diagrams



BAR SIZE is indicated in the bar mark. The first digit where three are used and the first two digits where four digits are used indicate the bar size number. For example S801 is a No. 8 size bar and F1001 is a No. 10 size bar.

** Include with railing for payment.

* See Standard Drawing BR-1-65 Sh. 1 for bending diagram.

Mark	No.	Length	Weight	Shape
RAILING				
R501	4	23'-4"	* *	S
R502	4	22'-6"	* *	S
R503	12	4'-2"	* *	* B
R504	8	5'-4"	* *	* B
R505	8	23'-1"	* *	S
REPLACEMENT BARS				
RE1001	1	7'-2"		S
RE801	3	6'-6"		S
RE601	2	5'-11"		S
RE501	1	5'-7"		S

Mark	No.	Length	Weight	Shape
ABUTMENTS (UNITS 2R-2F-3R-3F-7R-7F-8R-8F				
F801	152	6'-11"	2807	B
F501	140	6'-0"	876	S
A801	38	10'-4"	1,048	S
A802	38	11'-10"	1,201	S
A804	38	13'-11"	1,412	S
A805	38	14'-8"	1,488	S
A601	38	10'-10"	618	S
A602	38	12'-4"	704	S
A604	38	14'-5"	823	S
A605	38	15'-2"	866	
				S
A501	116	28'-0"	3388	S
ABUTMENTS (UNITS 9R & 9F).				
F1002	51	9'-9"	2,140	B
V601	9	15'-1"	204	S
V602	6	16'-6"	149	S
V603	4	15'-3"	92	S
V604	6	12'-9"	115	S
V605	6	10'-3"	92	S
V606	4	9'-0"	54	S
V607	6	6'-6"	59	S
V501	9	14'-7"	137	S
V502	6	16'-3"	102	S
V503	4	15'-0"	63	S
V504	6	12'-6"	78	S
V505	6	10'-0"	63	S
V506	4	8'-9"	37	S
V507	6	6'-3"	39	S
V508	6	35'-9"	224	S
V509	2	33'-2"	69	S
V510	2	28'-2"	59	S
V511	2	25'-8"	54	S
V512	2	20'-8"	43	S
V513	2	15'-8"	33	S
V514	6	31'-9	199	S
V515	2	28'-9"	60	S
V516	2	23'-9"	50	S
V517	2	21'-3"	44	S
V518	2	16'-3"	34	S
V519	2	11'-3"	23	S
V520	5	8'-1"	42	B
V521	3	7'-10"	25	B
V522	6	5'-9"	36	B
V523	5	7'-7"	40	B
V524	3	7'-10"	25	B
V525	16	5'-2"	86	S

ABUTMENTS (UNITS 4R-4F-5R-5F-6R-6F				
Mark	No.	Length	Weight	Shape
F1001	64	8'-11"	2456	B
F801	50	6'-11"	923	B
F501	84	6'-0"	526	S
A803	25	13'-2"	879	S
A806	25	13'-6"	901	S
A603	25	13'-0"	488	S
A606	25	13'-3"	498	S
A607	30	10'-5"	469	S
A608	6	11'-8"	105	S
A609	8	12'-10"	154	S
A610	4	14'-0"	84	S
A611	14	15'-2"	319	S
A612	16	5'-0"	120	S
A501	76	28'-0"	2220	S
A502	6	11'-5"	71	S
A503	8	12'-7"	105	S
A504	4	13'-9"	57	S
A505	14	14'-11"	218	S
A506	30	10'-2"	318	S
A507	4	25'-4"	106	S
A508	4	22'-8"	95	S

BURGESS & NIPLE LIMITED — CONSULTING ENGINEERS
COLUMBUS 12, OHIO

REINFORCING STEEL LISTS

BRIDGE No. FRA-270-1446
IR-270 OVER
BOEHM DITCH
FRANKLIN COUNTY STA. 686+90.00

DESIGNED	DRAWN	TRACED	CHECKED	REVISED DATE
KED	KED	KED	DW BWJ	12-8-3-14-66

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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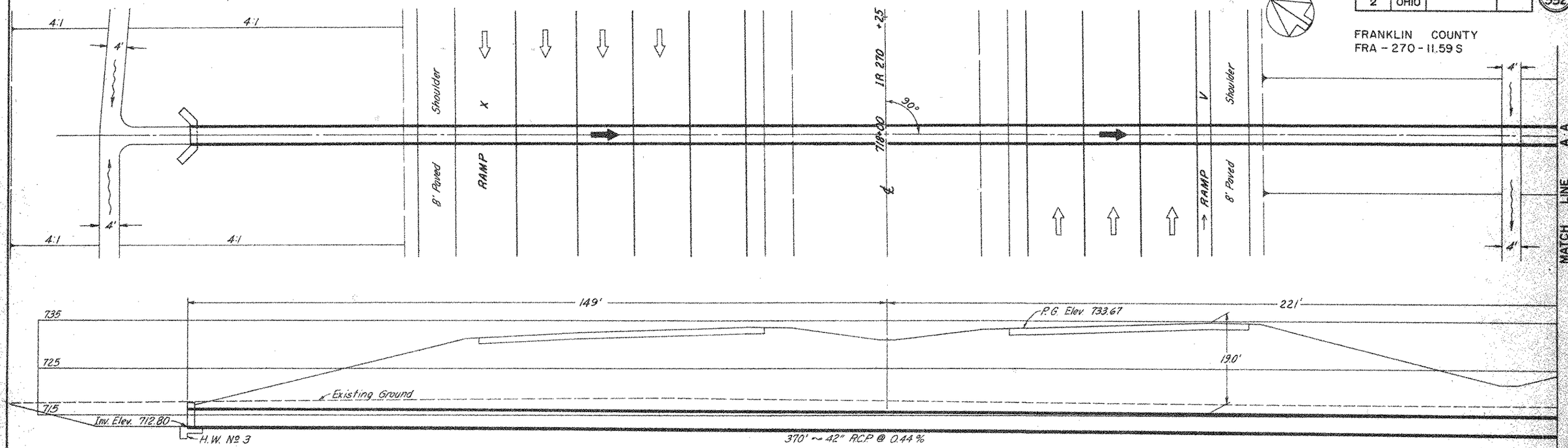
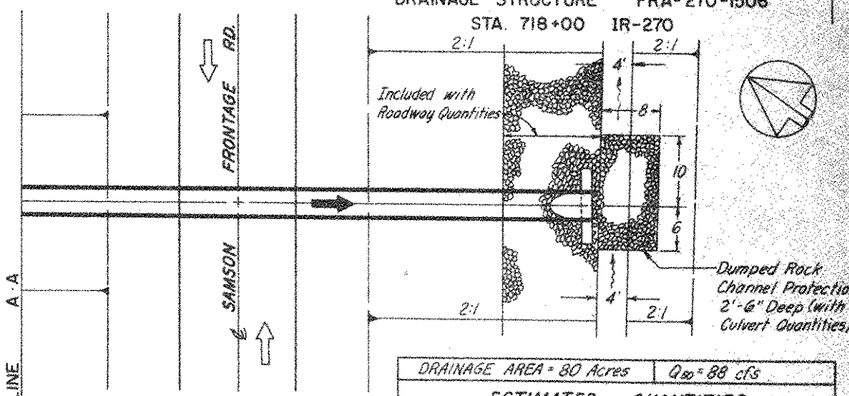
FRANKLIN COUNTY
FRA - 270 - 11.59 S



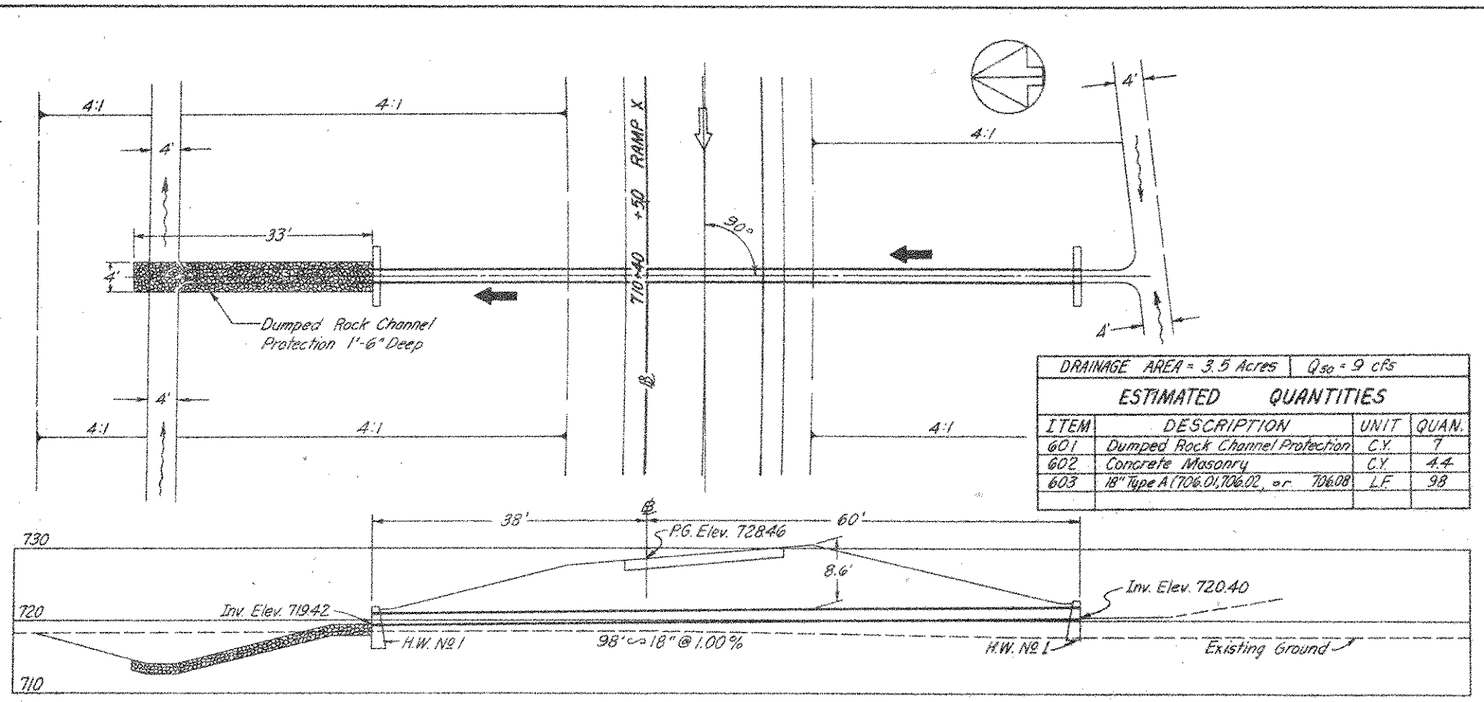
DRAINAGE STRUCTURE FRA-270-1506
STA. 718+00 IR-270



DRAINAGE AREA = 80 Acres | Q_{50} = 88 cfs

ESTIMATED QUANTITIES

ITEM	DESCRIPTION	UNIT	QUAN.
601	Dumped Rock Channel Protection	C.Y.	12
602	Concrete Masonry	C.Y.	7.46
603	42" Type A (706.02 Class IV)	L.F.	370



DRAINAGE AREA = 3.5 Acres | Q_{50} = 9 cfs

ESTIMATED QUANTITIES

ITEM	DESCRIPTION	UNIT	QUAN.
601	Dumped Rock Channel Protection	C.Y.	7
602	Concrete Masonry	C.Y.	4.4
603	18" Type A (706.01, 706.02 or 706.08)	L.F.	98

DRAINAGE STRUCTURE FRA-270-1491 LT.
RAMP X
STA. 710+40

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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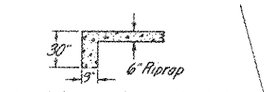
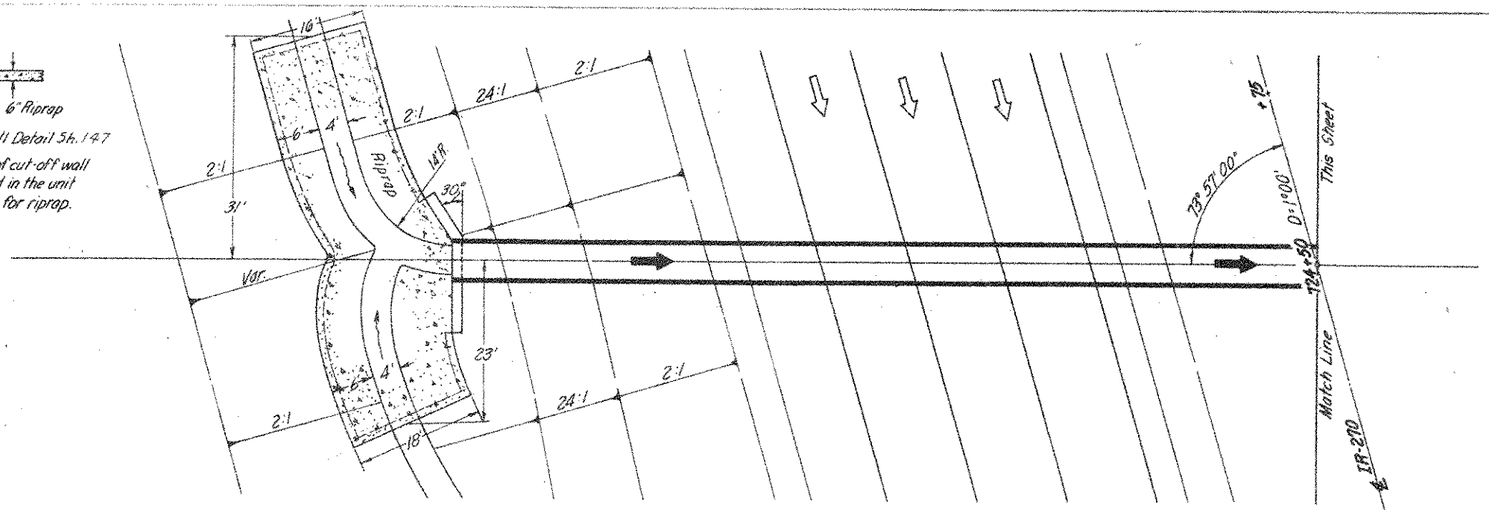
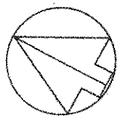
FRANKLIN COUNTY
FRA.-270-11.59S

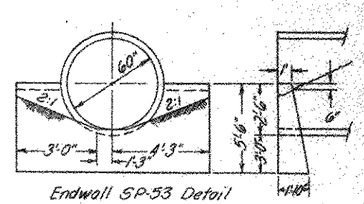


See Cut-off Wall Detail Sh. 147

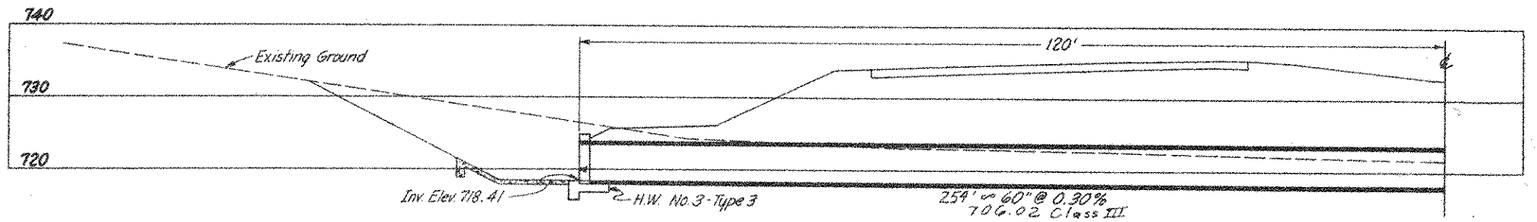
NOTE: The cost of cut-off wall is included in the unit price bid for riprap.



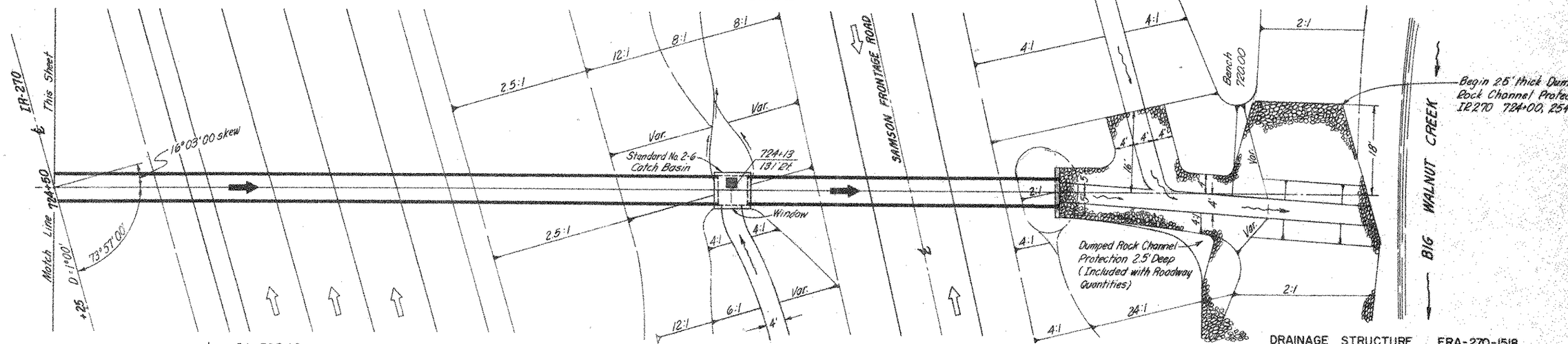




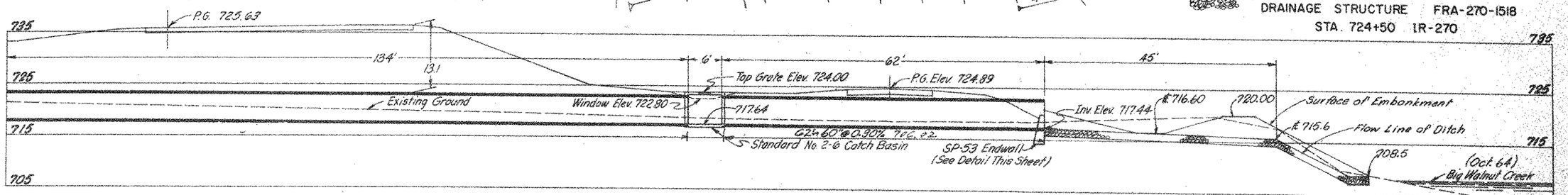
Endwall SP-53 Detail



Drainage Area = 91 Acres	Qso = 142 cfs		
ESTIMATED QUANTITIES			
ITEM	DESCRIPTION	UNIT	QUAN.
601	6" Reinforced Concrete Riprap	S.Y.	108
602	Concrete Masonry	C.Y.	22.0
603	60" Type A 706.02, Class III	L.F.	254
604	Standard No. 2-6 Catch Basin	Ea.	1
603	60" Type A 706.02	L.F.	62



DRAINAGE STRUCTURE FRA-270-1518
STA. 724+50 IR-270



FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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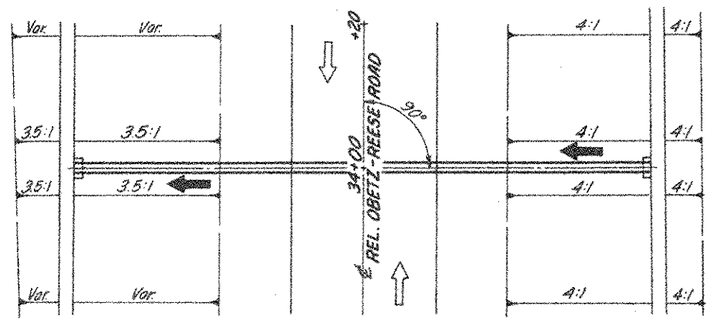
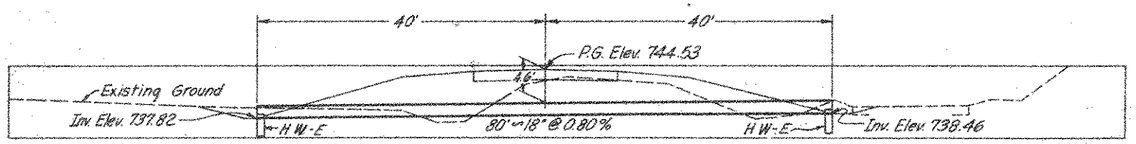
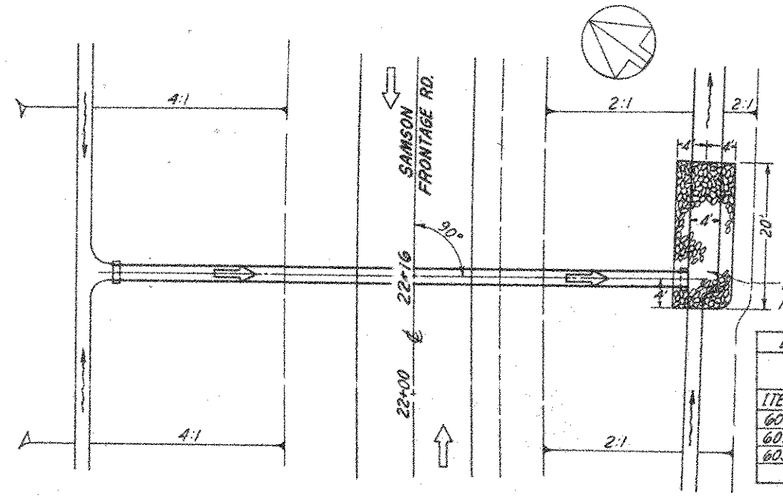
FRANKLIN COUNTY
FRA-270-11.59S

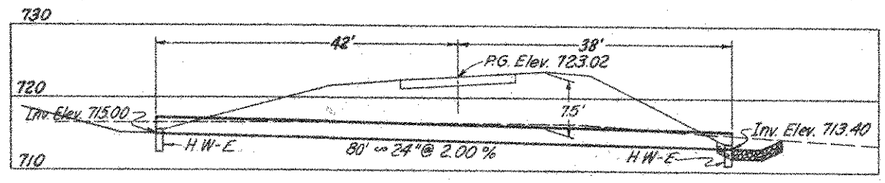




Drainage Area = 4 Acres	Q_{10} = 8 cfs		
ESTIMATED QUANTITIES			
ITEM	DESCRIPTION	UNIT	QUAN.
602	Concrete Masonry	C.Y.	0.60
603	18" Type A (706.01, 706.02 or 706.08)	L.F.	80

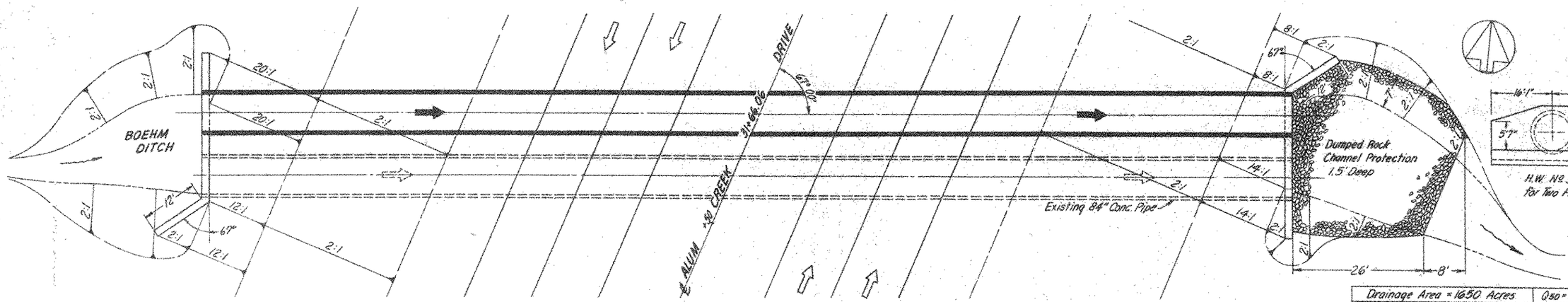
DRAINAGE STRUCTURE
REL. OBETZ-REESE ROAD
STA. 34+00





Drainage Area = 7 Acres	Q_{10} = 18 cfs		
ESTIMATED QUANTITIES			
ITEM	DESCRIPTION	UNIT	QUAN.
601	Dumped Rock Channel Protection	C.Y.	9
602	Masonry	C.Y.	0.82
603	24" Type A (706.02 or 706.08)	L.F.	80

DRAINAGE STRUCTURE
REL. SAMSON FRONTAGE ROAD
STA. 22+16



Drainage Area = 1650 Acres	Q_{50} = 590 cfs		
ESTIMATED QUANTITIES			
ITEM	DESCRIPTION	UNIT	QUAN.
601	Dumped Rock Channel Protection	C.Y.	53
602	Concrete Masonry	C.Y.	52.00
603	84" Type A 706.02 Class IV	L.F.	214

DRAINAGE STRUCTURE
ALUM CREEK DRIVE
STA. 31+66.06

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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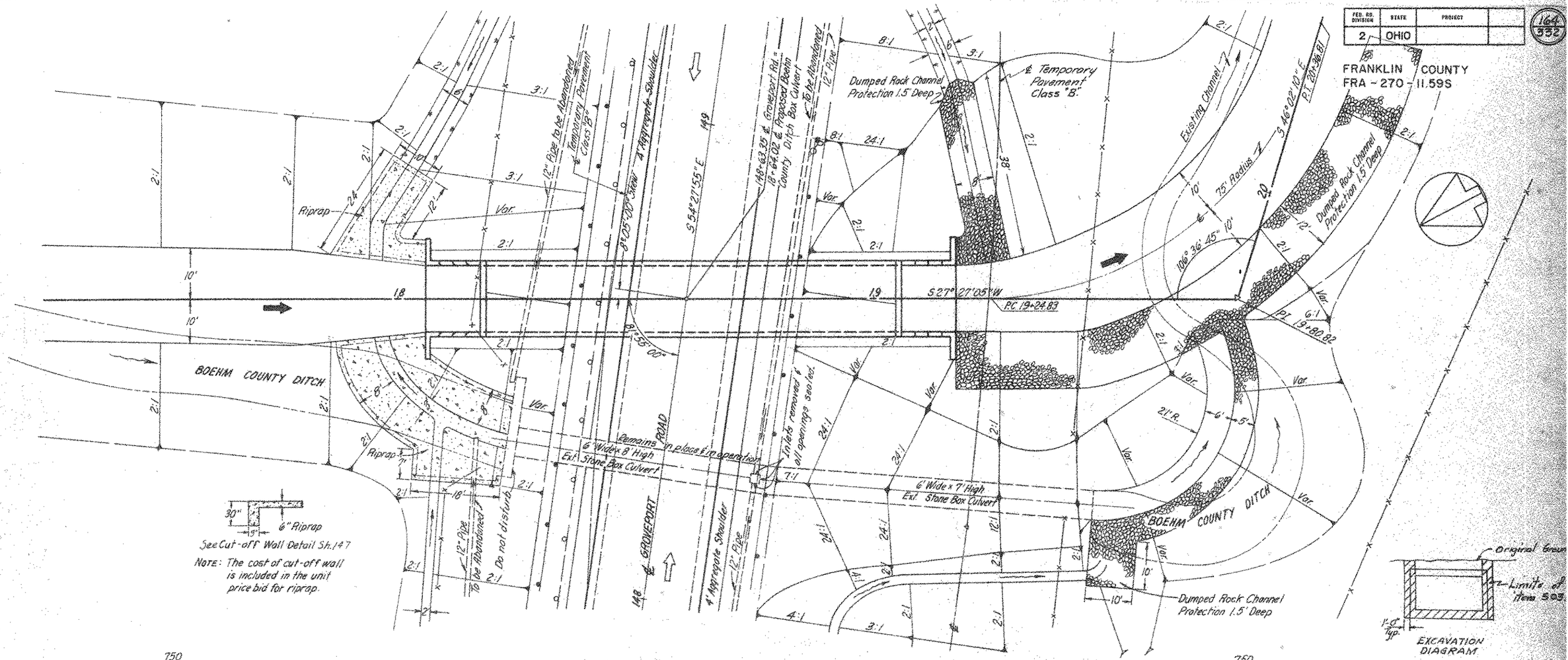
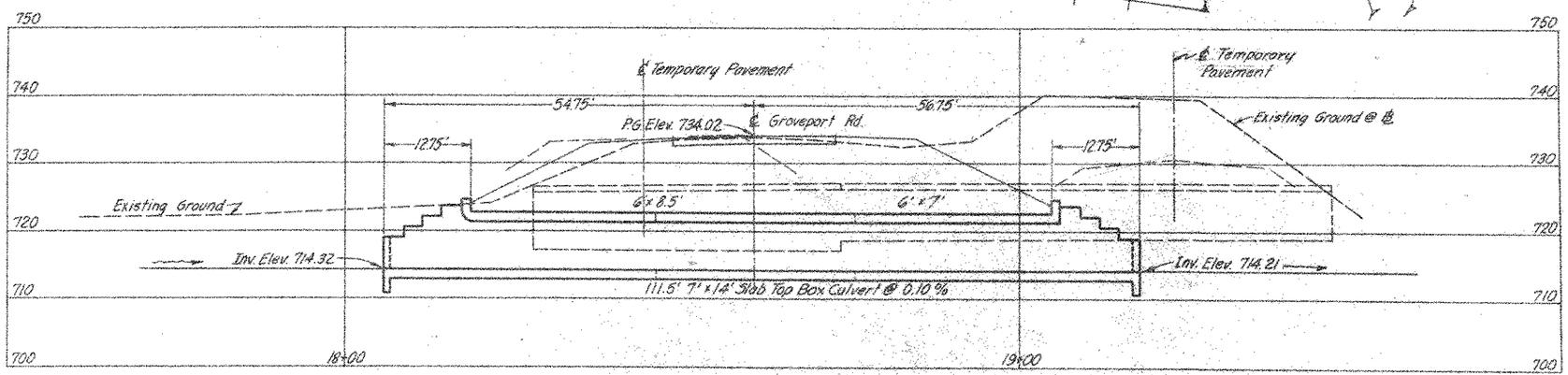
FRANKLIN COUNTY
FRA-270-11.59S





Drainage Area = 1647 Acres | Qio = 425 Q50 = 590

ESTIMATED QUANTITIES

ITEM	DESCRIPTION	UNIT	QUAN.
503	Excavation For Structure	C.Y.	378
509	Reinforcing Steel	Lbs.	36,245
511	Concrete for Structures	C.Y.	234
601	Dumped Rock Channel Protection	C.Y.	138
601	6" Reinforced Concrete Riprap	S.Y.	113
* 203	Channel Excavation	C.Y.	1080

* Carried to Sh. 148-
See Box Culvert Details Sheet # 165

DRAINAGE STRUCTURE
GROVEPORT ROAD
STA. 148+63.35

FED. ROAD DIV. NO.	STATE	FED. AID PROJ. NO.	TYPE FUNDS
5	OHIO		

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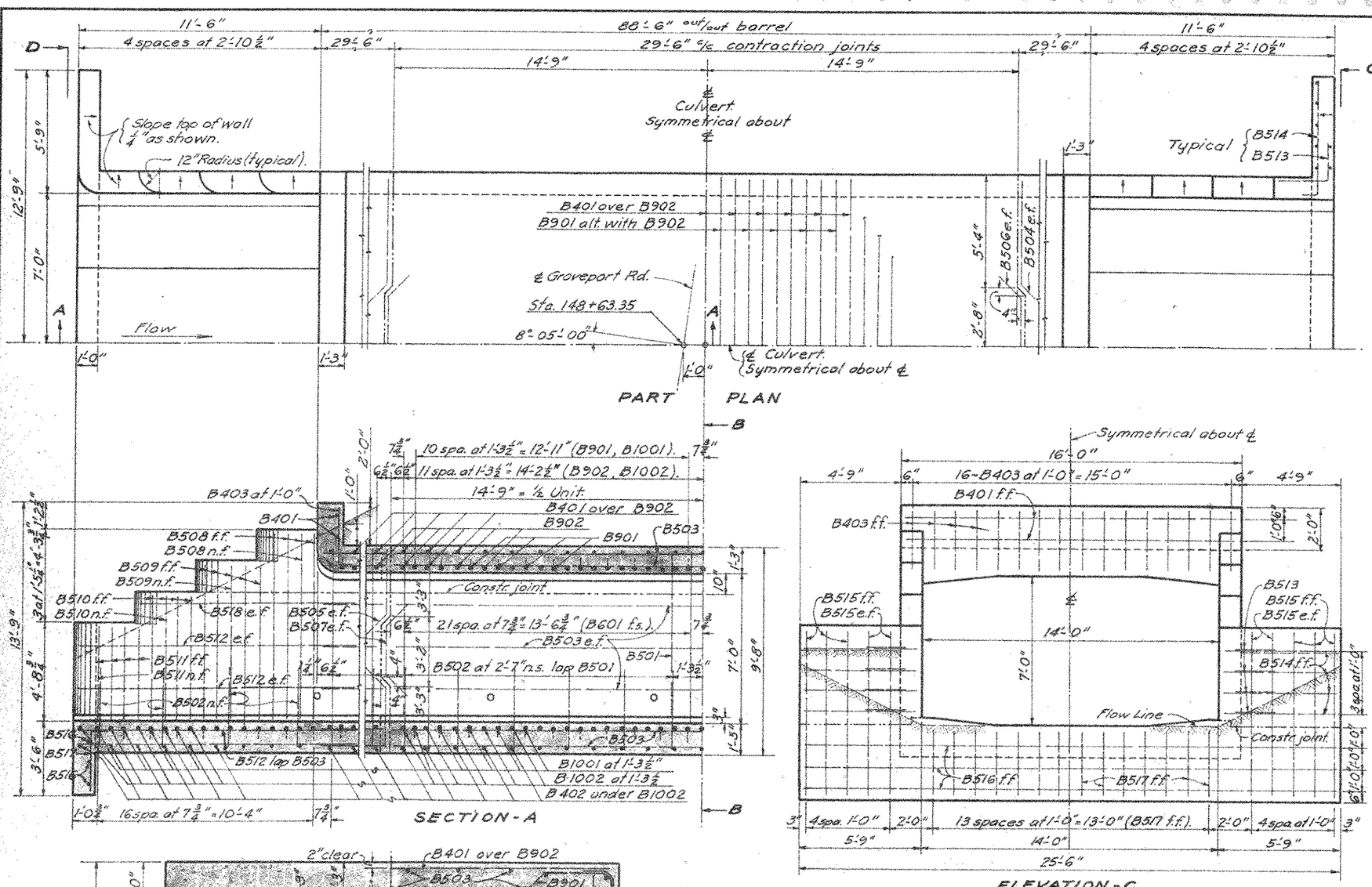
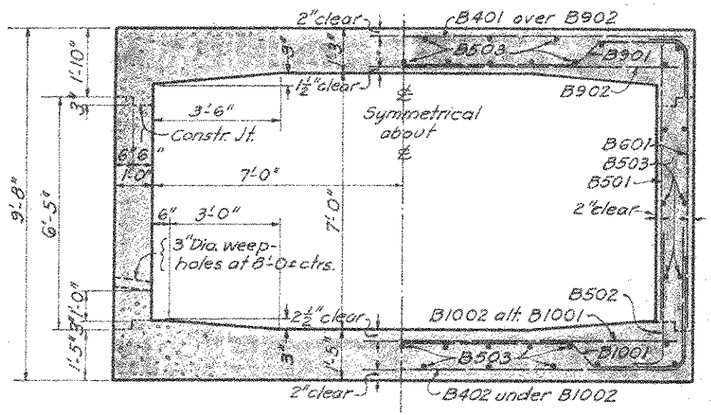
FRANKLIN COUNTY
FRA-270-11.59 S





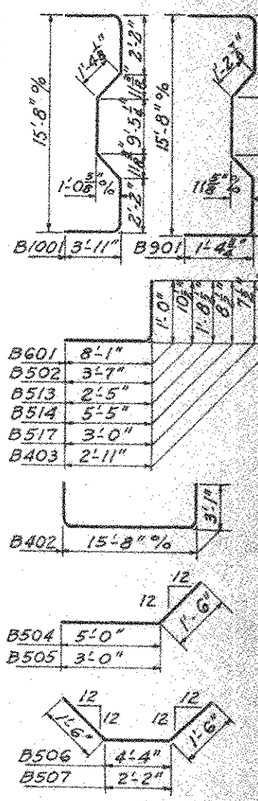
REINFORCING STEEL LIST

Mark	No.	Length	Weight	Shape
B1001	84	23'-10"	8,615	B
B1002	87	15'-6"	5,803	S
B901	66	18'-9"	4,208	B
B902	69	15'-6"	3,636	S
B601	270	8'-11"	3,616	B
B501	72	7'-9"	582	S
B502	88	4'-4"	398	B
B503	162	29'-2"	4,928	S
B504	16	6'-6"	108	B
B505	16	4'-6"	75	B
B506	8	7'-4"	61	B
B507	8	5'-2"	43	B
B508	20	8'-7"	179	S
B509	24	7'-2	179	S
B510	20	5'-9"	120	S
B511	20	4'-3"	89	S
B512	58	13'-0	786	S
B513	16	4'-0"	67	B
B514	16	6'-0"	100	B
B515	28	7'-9"	226	S
B516	6	25'-2"	157	S
B517	28	3'-6"	102	B
B518	8	10'-3"	86	S
B401	73	15'-6"	756	S
B402	87	21'-7"	1254	B
B403	32	3'-4"	71	B

REPLACEMENT BARS

RE1001	1	7'-2"	—	S
RE901	1	6'-10"	—	S
RE601	1	5'-11"	—	S
RE501	1	5'-7"	—	S
RE401	1	5'-3"	—	S

Bending Diagrams



ELEVATION - C
(*Elevation D similar except as noted).

EMBANKMENT shall be placed symmetrically on both sides of the culvert after the top slab is in place. Embankment over the barrel shall be placed in horizontal layers simultaneously with that on each side of the culvert.

CONCRETE shall be Class "C".

BAR SIZE is indicated in the bar mark. The first digit where three digits are used, and the first two digits where four are used, indicate the bar size number. For example B501 is a No. 5 bar and B1001 is a No. 10 size bar.

DESIGN DATA: Concrete Class "C" - basic unit stress 1333 p.s.i.
Reinforcing Steel - ASTM A15, A16, A160, Deformed, Basic unit stress 20,000 p.s.i.

* NOTE: Underside of roof slab and side-wall steps are curved as shown at entrance end only.

LEGEND
n.f. — near face.
f.f. — far face.
e.f. — each face.

BURGESS & NIPLE LIMITED — CONSULTING ENGINEERS
COLUMBUS 12, OHIO

BOX CULVERT DETAILS
DRAINAGE STRUCTURE
GROVEPORT ROAD

FRANKLIN COUNTY STA 148+63.35

DESIGNED	DRAWN	TRACED	CHECKED	REVISED DATE	
KED	KED	KED	DWT	CHKR 11-16-60	

PAVEMENT DETAILS

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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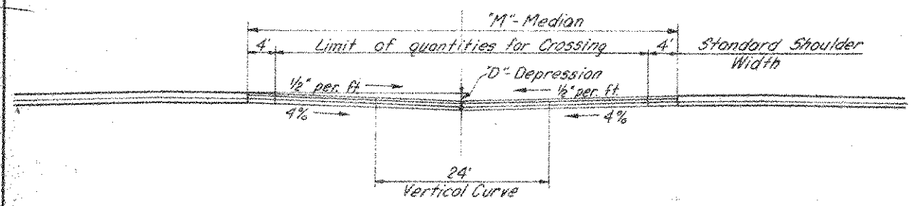
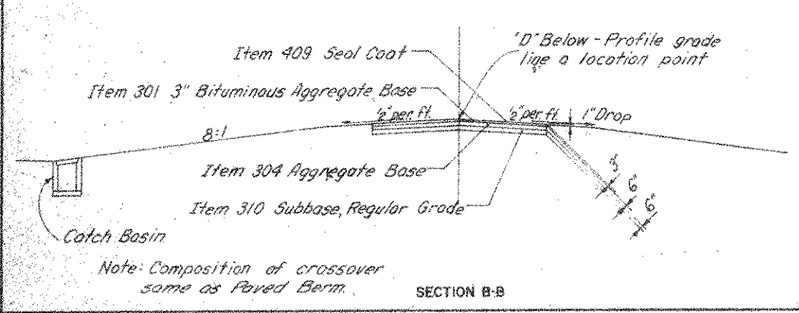
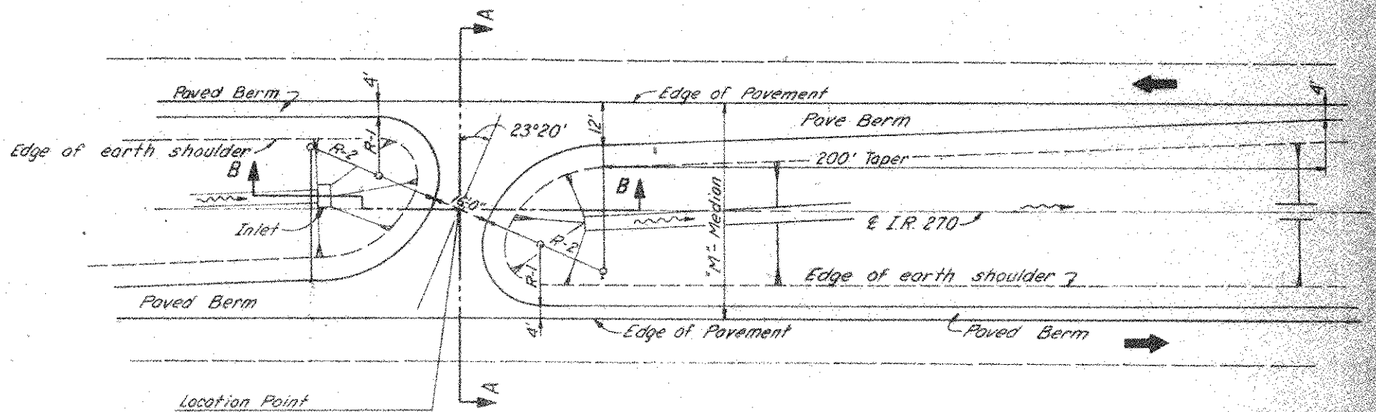
FRANKLIN COUNTY
FRA-270-11.59S



SECTION A-A



SECTION B-B

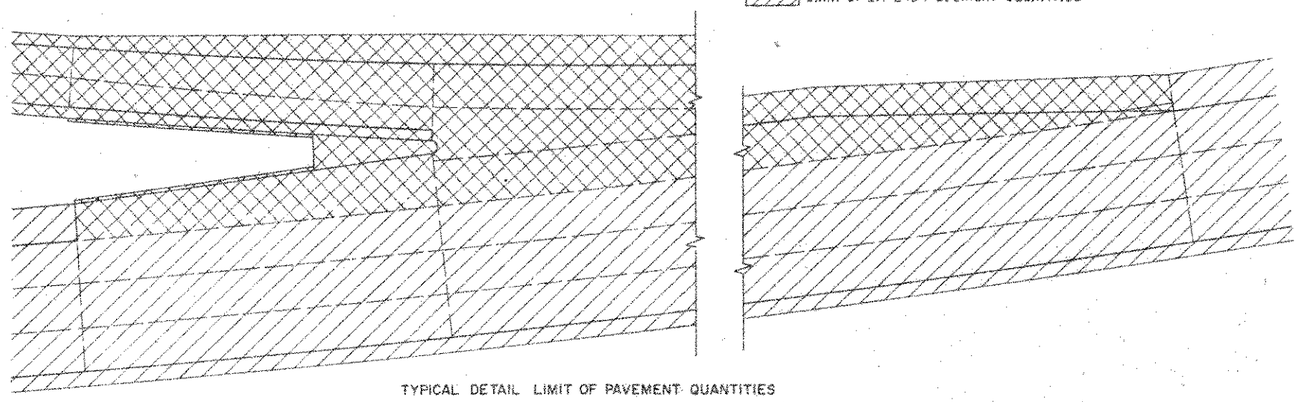


TYPICAL CROSSOVER

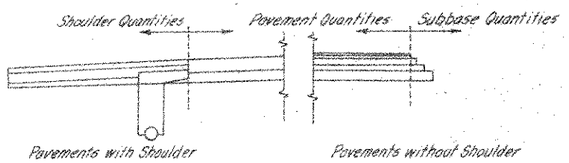
DIMENSIONS APPLICABLE TO VARYING MEDIAN WIDTHS			
"M"	"D"	R-1	R-2
84'	18"	25.0'	55.0'
60'	12"	15.2'	35.6'
50'	9½"	12.5'	27.5'
40'	7"	8.8'	19.4'

STANDARD MEDIAN CROSSOVER
LOCATIONS AS SHOWN ON PLANS
STA. 537+75.00
STA. 663+88.00

Limit of Ramp Pavement Quantities
Limit of I.R-270 Pavement Quantities



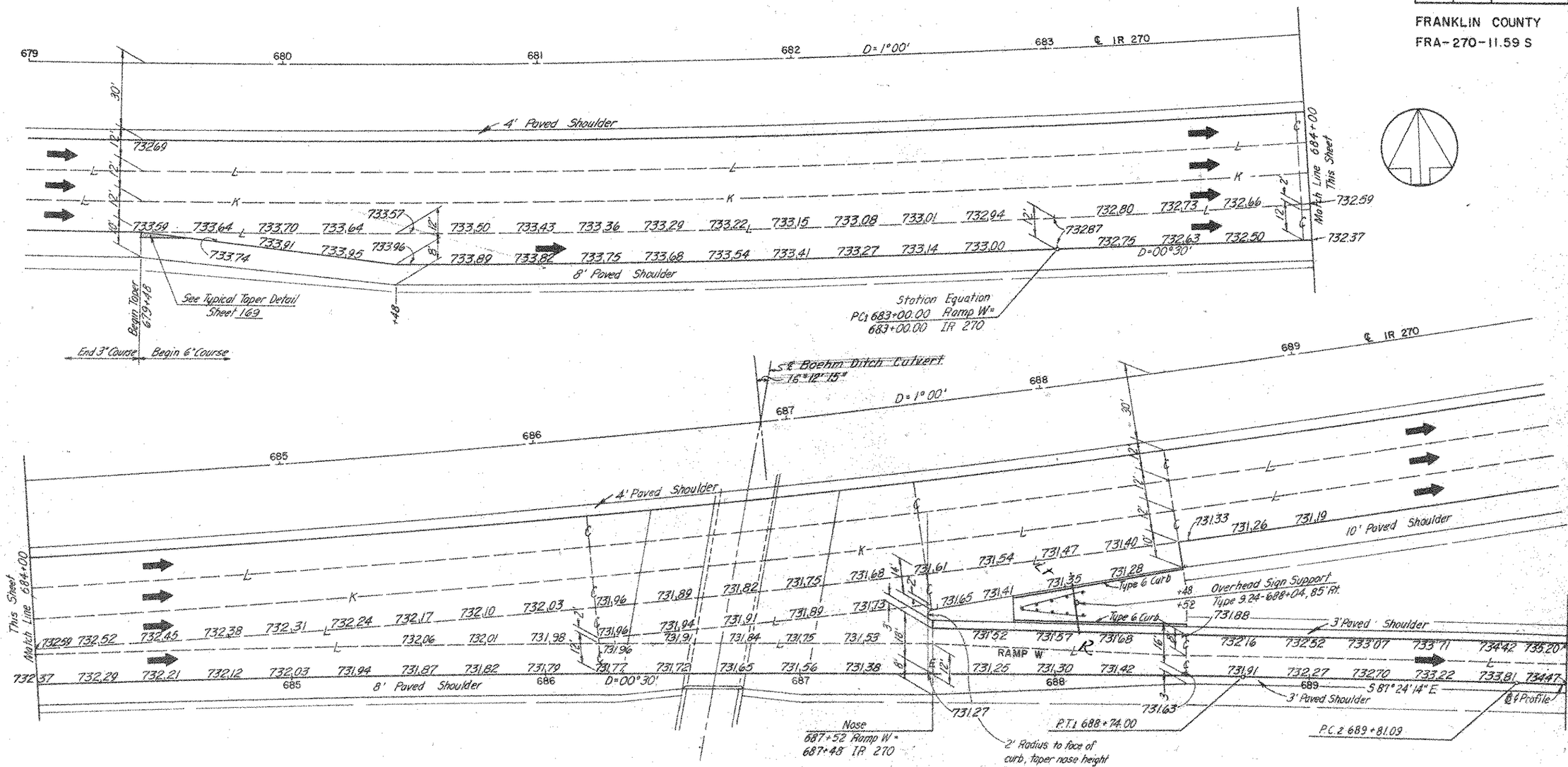
TYPICAL DETAIL LIMIT OF PAVEMENT QUANTITIES



SEPARATION OF PAVEMENT & SHOULDER QUANTITIES

FED. RD. DIVISION	STATE	PROJECT		
2	OHIO			

FRANKLIN COUNTY
FRA-270-11.59 S



JOINT LEGEND
L = Standard Longitudinal Joint
E = Standard Expansion Joint
C = Standard Contraction Joint
K = Key Joint Without Tiebars

FED. HD. DIVISION	STATE	PROJECT	
2	OHIO		

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FRANKLIN COUNTY
FRA-270-11.59 S

P.T. 695+81.26 Ramp V =
P.O.T. 695+81.26 Ramp V

See Sheet 172
Match Line 695+81.26

3' Paved Shoulder

RAMP V

℄ 6 Profile

PC 698+00.00

N 39° 39' 30" E

3' Paved Shoulder

D=4°00'

RAMP

Match Line 702+00 This Sheet

℄ IR 270

D=1°00'

4' Paved Shoulder

Type 8 Curb

Paved Shoulder

8' Paved Shoulder

Station Equation ℄ Nose
707+47.00 Ramp V =
707+47.00 I.R. 270

This Sheet Match Line 702+00

10' Paved Shoulder

3' Paved Shoulder

Type 7 Curb

3' Paved Shoulder

℄ 6 Profile

D=4°00'

PT 704+47.00

RAMP V

N 65° 32' 18" E

PAVEMENT ELEVATIONS RAMP V					
STA.	DIST. FROM EDGE	ELEV.	STA.	DIST. FROM EDGE	ELEV.
714+00	11.40	734.08	717+00	5.15	734.72
+25		734.13	+25		734.77
+50		734.18	+50		734.82
+75		734.23	+75		734.88
715+00	9.32	734.29	718+00	3.07	734.93
+25		734.34	+25		734.98
+50		734.39	+50		735.04
+75		734.45	+75		735.09
716+00	7.23	734.50	719+00	.98	735.14
+25		734.56	+25		735.20
+50		734.61	+47	.00	735.24
+75		734.66			

This Sheet Match Line 708+00

℄ IR 270

4' Paved Shoulder

RAMP V

8' Paved Shoulder

Rate of Taper 25' per 1200'

End Details

JOINT LEGEND
L = Standard Longitudinal Joint
E = Standard Expansion Joint
C = Standard Contraction Joint
K = Key Joint Without Tiebars

NOTE: Taper detail @ 719+47.00
Same as Ramp V detail
See Sheet 169

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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FRANKLIN COUNTY
FRA-270-11.59 S

End Taper @ 687+98.57
See IR 270, 680+00 to 690+00
Sheet 42

Rate of Taper 25' per 1200'

End Details

4' Paved Shoulder

8' Paved Shoulder

This Sheet
Match Line 699+00

693 694 695 696 697 698

D = 1°00'

℄ IR 270

PAVEMENT ELEVATIONS RAMP Y					
STA.	DIST. FROM EDGE	ELEV.	STA.	DIST. FROM EDGE	ELEV.
687+98.57	0	729.13	690+75		728.19
688+00	0.03	729.13	691+00	6.28	728.11
+25		729.04	+25		728.02
+50		728.96	+50		727.93
+75		728.87	+75		727.85
689+00	2.11	728.78	692+00	8.36	727.76
+25		728.70	+25		727.67
+50		728.61	+50		727.59
+75		728.52	+75		727.50
690+00	4.20	728.44	692+98.57	10.42	727.41
+25		728.35			
+50		728.28			

Note: Taper End Details
The shaded area shall be constructed of concrete pavement to an elevation one half inch lower than the adjacent pavement and surfaced with Item 409 Seal Coat.
The shaded area shall be paid for as full depth concrete pavement and the seal coat shall be paid for as Item 409.

Begin 3" Course
Taper End 3" Course
Begin 6" Course

96' Typical Entrance
16'8' Typical Exit

TYPICAL TAPER DETAIL

This Sheet
Match Line 705+25

3' Paved Shoulder

℄ & Profile

See Sheet 174
Match Line 708+00

RAMP Y

R = 230'

706 707

Station Equation
699+98.57 Ramp Y =
699+98.57 IR 270

This Sheet
Match Line 699+00

N 70° 01' 10" E

8' Paved Shoulder

4' Paved Shoulder

End Details

T.S. 702+98.57

Ls = 200'

S.C. 704+98.57

Type 1 Curb

10' Paved Shoulder

701 702 703 704 705

D = 1°00'

℄ IR 270

JOINT LEGEND
L = Standard Longitudinal Joint
E = Standard Expansion Joint
C = Standard Contraction Joint
K = Key Joint Without Tiebars

PAVEMENT DETAIL RAMP Y

FED. RD. DIVISION	STATE	PROJECT		
2	OHIO			

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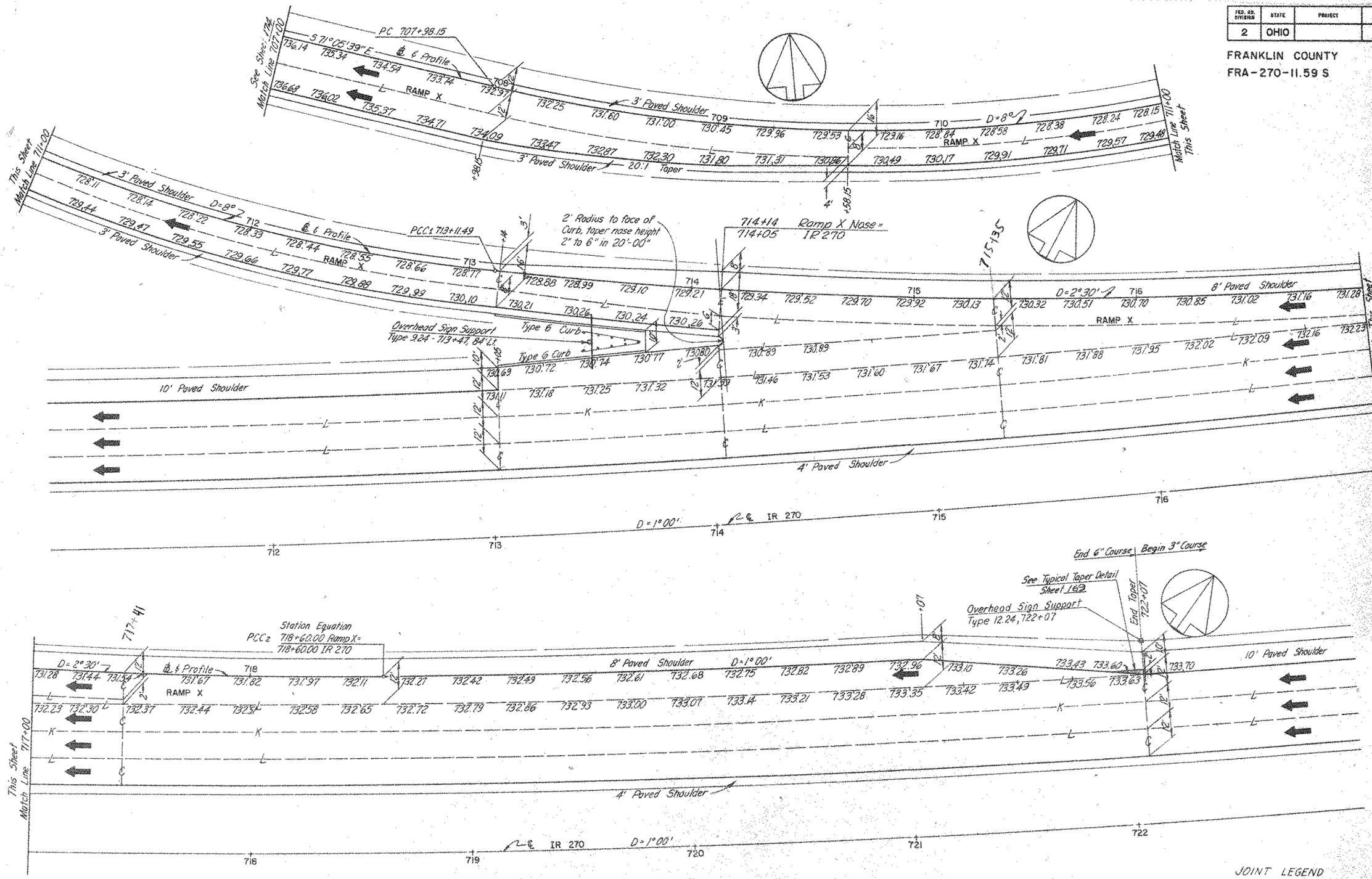
FRANKLIN COUNTY
FRA-270-11.59 S



JOINT LEGEND
L = Standard Longitudinal Joint
E = Standard Expansion Joint
C = Standard Contraction Joint
K = Key Joint Without Tiebars

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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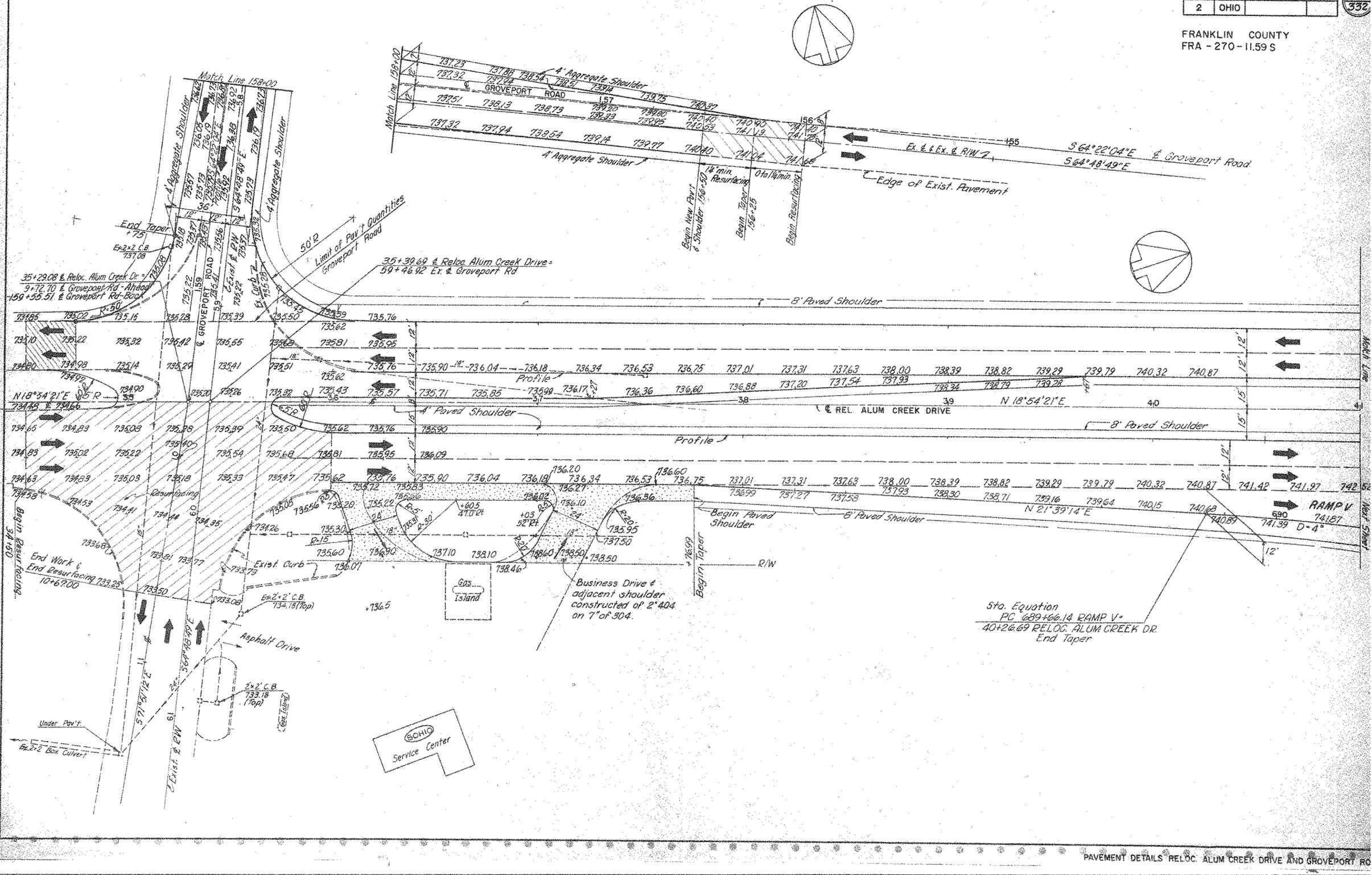
FRANKLIN COUNTY
FRA - 270 - 11.59 S



PAVEMENT DETAILS RELOC. ALUM CREEK DRIVE AND GROVEPORT RO

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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FRANKLIN COUNTY
FRA-270-11.59 S

See Sheet 167
Match Line 694+00

N 681,600

3' Paved Shoulder

2' Radius to face of curb, taper nose height 2" to 6" in 20'-00.

SC 695+00.24

Station Equation
PT 696+74.70 Ramp W =
43+34.66 Reloc.
Alum Creek Drive

PCC 695+97.02

Flexible Pavement

Rigid Pavement

3' Paved Shoulder

8' Paved Shoulder

RAMP W

Type 6 Curb

20' Conc. Median

2' Radius to face of Curb

Sta. Equation
45+50.00 Alum Creek Drive =
693+70.37 Ramp V1 =
695+92.78 Ramp W1

N 681,800

Previous Sheet

41+00

Profile

℄ REL. ALUM CREEK DRIVE

4' Paved Shoulder

N 18°54'21" E

Ground Mounted Sign
44+83

+21.0' 90°
60 Ft

90°00'

S 71°05'39" E

Match Line

Nose
POT STA. 691+62.5 RAMP V=
STA. 42+26.3 RELOC.
ALUM CREEK DRIVE

Type 6 Curb

Overhead Sign Support Type 1048
42+77-55' Rt

End Curb +62.5

Conc. Median

Begin Curb +40

Begin Curb +44

Type 6 Curb 2' Radius to face of curb

RAMP V

RAMP V1

PC 694+32.68

PT 694+16.25

STA EQUATION
PT 695+81.26 RAMP V1 =
POT 695+81.26 RAMP V
Match Line See Sheet 168

JOINT LEGEND
L = Standard Longitudinal Joint
C = Standard Contraction Joint

E 1,878,200

N 681,200

N 681,400

PAVEMENT DETAILS RELOC. ALUM CREEK DRIVE AND RAMPS V AND W

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FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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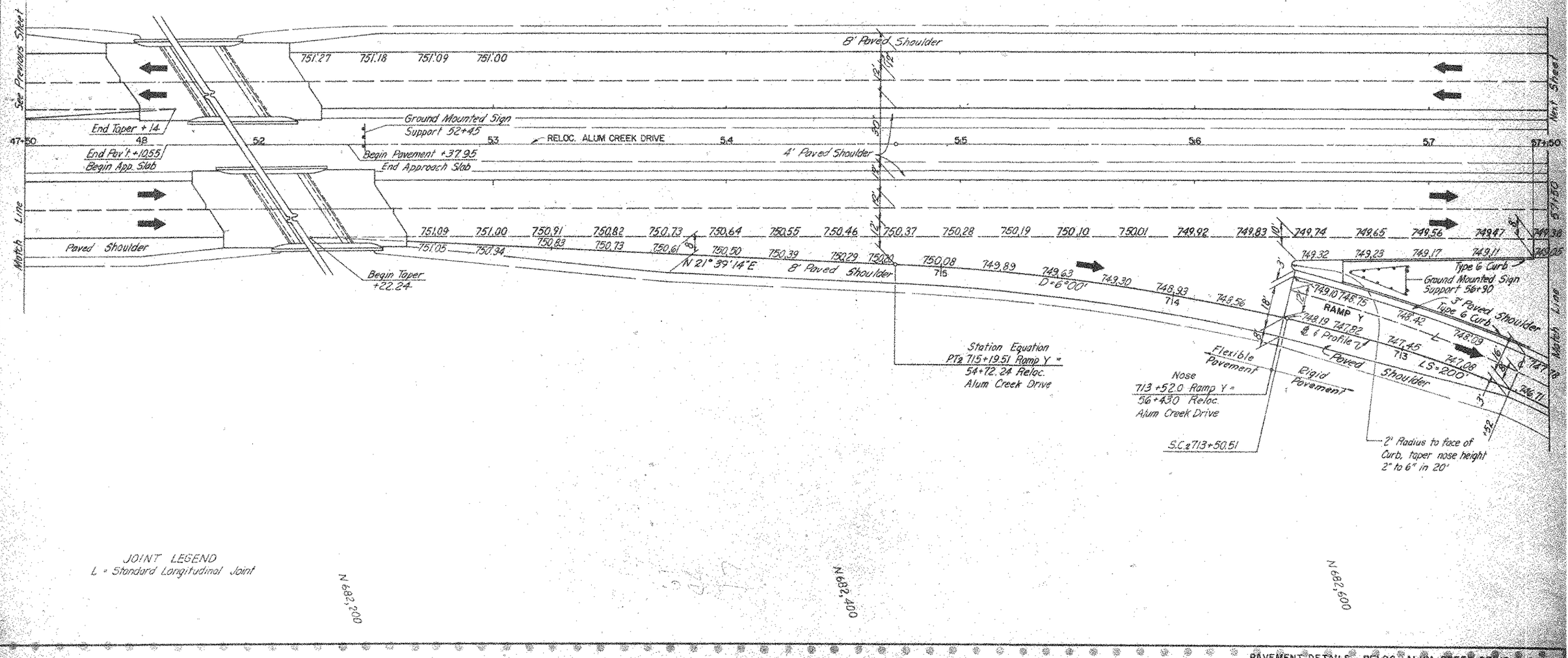
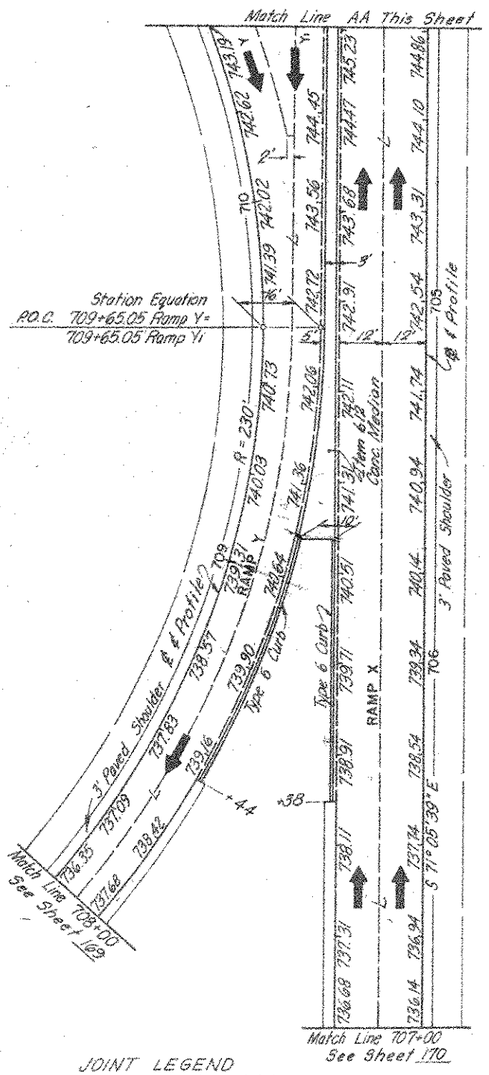
FRANKLIN COUNTY
FRA-270-11.59 S

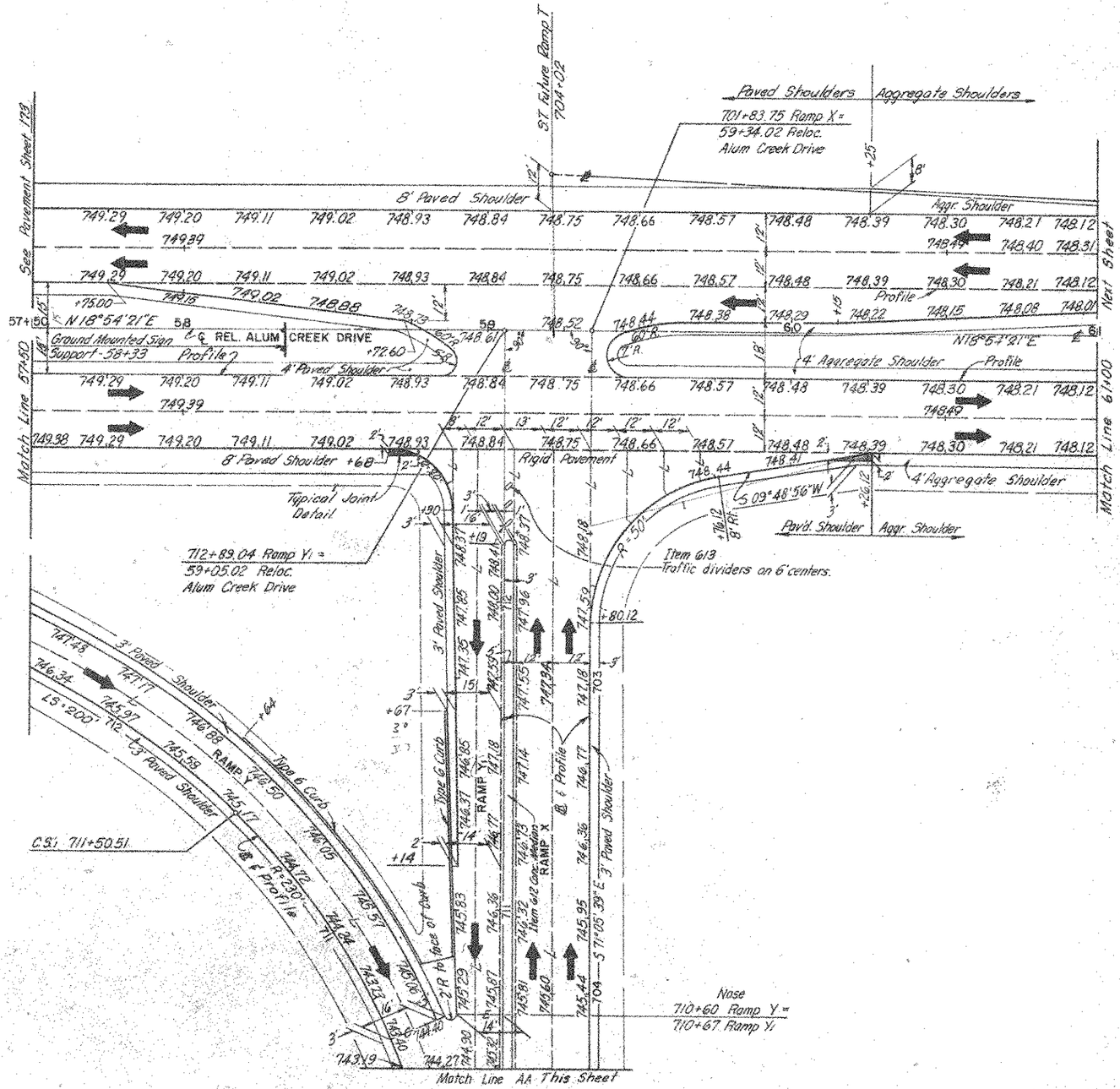


PAVEMENT DETAILS - RELOC. ALUM CREEK DRIVE & RAMP

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY
FRA-270-11.59S





PAVEMENT DETAILS RELOC. ALUM CREEK DRIVE AND RAMP X, Y AND T

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

175
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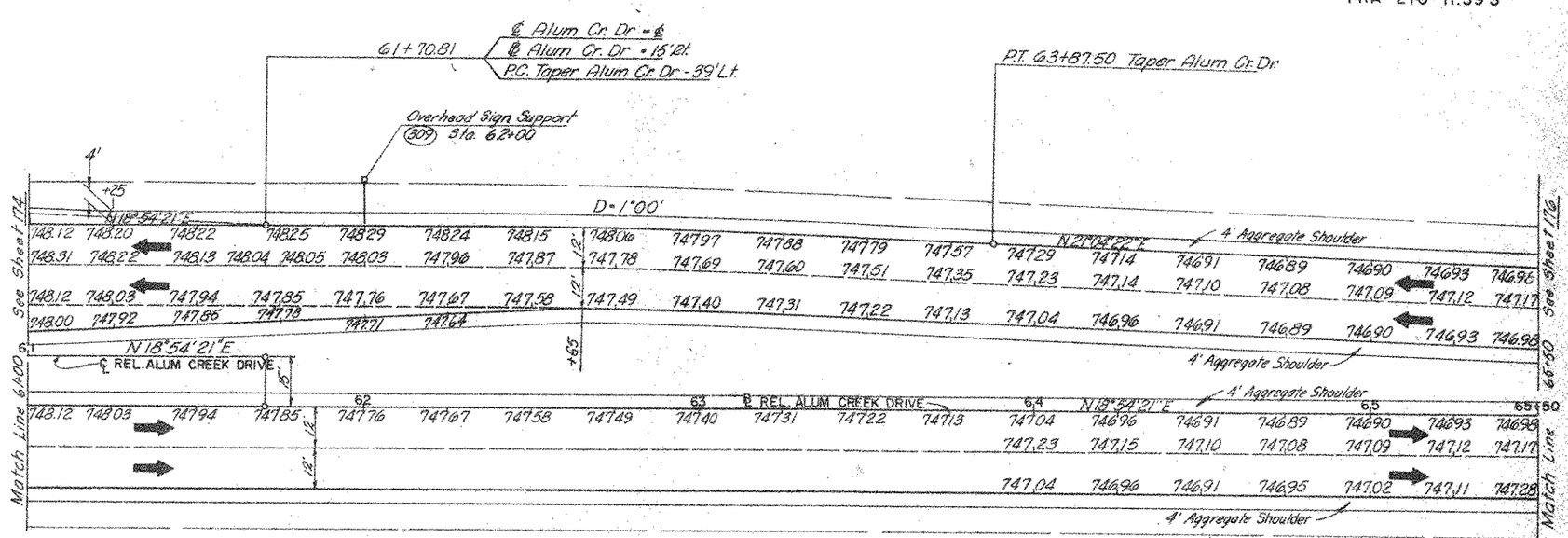
FRANKLIN COUNTY
FRA-270-11.59 S



FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

176
332

FRANKLIN COUNTY
FRA-270-11.59 S

℄ HOWARD ROAD
749.06
+75
+77.5
749.07
+90
748.90
748.52
+02.5
748.37
67+94.43 ℄ Alum Cr. Dr. =
PC. 67+92.78 Taper Alum Cr. Dr - 32.05' Lt.
PC
67+08.31 ℄ Alum Cr. Dr.
19+15.94
12' Lt.
19+35.52
12 Rt
+81.80
38.25' Lt.
+98.53
22.88' Lt.
Item 613
Begin Traffic Dividers
68+92 12' O/G
End Traffic Dividers
70+60
70+84.72 ℄ Alum Cr. Dr.
PT. 70+79.78 Taper Alum Cr. Dr - 10.76' Lt.
See Sheet 175
Match Line 65+50
N 21°04'22" E
N 18°54'21" E
℄ ALUM CREEK DRIVE
N 06°43'22" E
N 03°51'37" E
This Sheet
Match Line 71+50
PI 33+66.51
Δ = 2°41'30" Lt
Begin Feathering
+75
749.86
750.14
+97
750.10
+91
750.11
S 06°39'52" W
℄ ALUM CR. DR. (EXIST.)
749.83
Exist. Alum Cr. Dr.
PC Alum Cr. Dr. Turnout
End Feathering
34+13.59
68+30.00 ℄ Alum Cr. Dr.
37+74.33 Alum Cr. Dr. Turnout
S 53°52'22" W
℄ Exist ℄
R=75'
75' Rad.
PRC
35+05.35
℄ ALUM CR. DR. TURNOUT
+11.23
12' Lt.
751.02
+01.61
12' Rt.
PT.
37+01.61
S 75°57'42" E
R=40'
R=50'
+80.21
24' Pt.
+88.97
24' Pt.
PI 36+94.56
68+51.79 ℄ Alum Cr. Dr. =
20+00.00 ℄ Howard Rd
LINDSAY ROAD
+55.72
+49.75
+72.5
748.89
+89.57
3.73' Lt.
+85
749.35
℄ 74+13.20 Rel. Alum Creek Drive
℄ 42+23.47, 11.88' Rt. Alum Creek Dr.
73+00.00 ℄ Alum Cr. Dr.
72+95.33 Taper Alum Cr. Dr.
PT 70+84.45
℄ Alum Creek Drive
Station Equation
72+52.30 ℄ Alum Creek Dr. =
20+00.00 ℄ Lindsay Rd.
End New Full Width Pavement
Begin Resurfacing
Begin Feathering
73+50
End Aggregate Shoulders
End Feathering
74+00

PAVEMENT DETAILS — RELOC. ALUM CREEK DRIVE & LINDSAY ROA

TRAFFIC CONTROL & SIGNING PLANS
SUMMARY

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY
FRA-270-11.59S

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ITEM 620 ~ DELINEATORS

ROAD	SIDE	STATION BEGIN	STATION END	L.F.	Spacing	A-1 Post	A-1 Bracket	C-2 Post	C-3 Post
IR 270	R	535+50	609+50	7400	200	38			
IR 270	L	536+00	608+00	7200	200	37			
IR 270	L	610+00	664+00	5400	200	*28			
IR 270	R	611+50	663+50	5200	200	*27			
IR 270	R	665+50	679+50	1400	200	8			
IR 270	L	666+00	686+00	2000	200	11			
IR 270	L	688+00							1
IR 270	R	688+50	702+50	1400	200	8			
IR 270	L	704+75	712+75	800	200	5			
IR 270	R	719+45							1
IR 270	R	721+45	723+45	200	200	2			
IR 270	L	724+10				1			
Ramp W	R	690+50	689+50	900	100			10	
Ramp W	L	689+50	693+10	360	60			7	
Ramp W	R	693+10	694+90	180	60			4	
Ramp W	R	695+20	695+50	30	30			2	
Ramp W1	L	694+10	695+10	100	100			2	
Ramp Y	L	689+00	704+00	1500	100			16	
Ramp Y	L	704+60						1	
Ramp Y	R	704+60	709+10	450	30			16	
Ramp Y	R	710+90	713+30	240	30			9	
Ramp Y	L	713+30	715+10	180	60			4	
Ramp Y	L	716+10	717+10	100	100			2	
Ramp Y1	L	711+25	712+25	100	100			2	
Ramp X	L	703+60	707+60	400	100			5	
Ramp X	R	707+60	713+10	550	50			12	
Ramp X	L	713+10	722+10	900	100			10	
Ramp V	R	687+15	689+15	200	100			3	
Ramp V	R	689+95	692+35	240	80			4	
Ramp V	L	692+35	694+75	240	80			4	
Ramp V	R	694+75	697+75	300	100			4	
Ramp V	L	697+75	703+35	560	80			8	
Ramp V	R	703+35	704+45	110	110			2	
Ramp V	R	705+45	718+45	1300	100			14	
Ramp V1	R	694+40	695+00	60	30			3	
Ramp V1	L	695+00	695+90	90	30			4	
Alum Cr. Dr.	R	34+00	36+00	200	200	2			
Alum Cr. Dr.	L	37+00	43+00	600	200	4			
Alum Cr. Dr.	R	42+60	46+60	400	200	3			
Alum Cr. Dr.	L	45+00	47+00	200	200	2			
Alum Cr. Dr.	R	48+60	50+60	200	200		2		
Alum Cr. Dr.	L	49+00	51+00	200	200		2		
Alum Cr. Dr.	L	53+00	59+00	600	200	4			
Alum Cr. Dr.	R	56+70	60+70	400	200	3			
Alum Cr. Dr.	L	61+00	73+00	1200	200	7			
Alum Cr. Dr.	R	62+70	72+70	1200	200	7			
I Section						142	4	148	2
*IG Section						*55			
Sub Totals to General Summary ~ Signing						197	4	148	2

ITEM 621 ~ TRAFFIC ZONE PAINT MARKING

ROAD	SIDE	STATION BEGIN	STATION END	L.F.	No. Lines	* 4" Edge Lines	** 4" Lane & Ø	** 6" Lane & Ø	8" Channelizg Lines	24" Stop Lines	Curb & Island Markings	Broad Transverse Stripes
IR 270	L&R	535+00	610+00	7500	4	30000		30000				
IR 270	L&R	610+00	665+00	5500	4	*22000		*22000				
IR 270	R	665+00	687+50	2250	2	4500		4500				
IR 270	L	665+00	713+00	4800	2	9600		9600				
IR 270	R	687+50	685+50	100	1,2&1	100		200	100			
IR 270	R	688+50	725+00	3650	2	7300		7300				
IR 270	L	713+00	714+00	100	1,2&1	100		200	100			
IR 270	L	714+00	725+00	1100	2	2200		2200				
Ramp W	R	680+75	687+50	675			225		500			Lump
Ramp W	L&R	687+50	694+75	725	2	1450					Lump	
Ramp W	L	693+70	694+75	105			70		70			Lump
Ramp W	L&R	694+75	695+75	100	2	200				Lump		
Ramp W1	L&R	694+75	695+55	80	2	160						
Ramp W1		695+45			1					Lump		
Ramp Y	L&R	695+75	704+00	825	1&1	825	275		450		Lump	
Ramp Y	L&R	704+00	708+45	445	2	890					Lump	
Ramp Y	L&R	708+45	710+75	230	1&1	230					Lump	
Ramp Y	R	710+00	710+75	75			40		55		Lump	Lump
Ramp Y	L&R	710+75	713+50	275	2	550					Lump	
Ramp Y	R	713+50	716+35	285			185		200			Lump
Ramp Y1	L&R	711+15	712+50	135	1&1	135					Lump	
Ramp V	L	688+90	691+60	270			160		220			Lump
Ramp V	L&R	691+60	695+00	340	2	680					Lump	
Ramp V	L&R	695+00	695+25	25	1&1	26			25		Lump	
Ramp V	L	695+25	697+15	190			215		50			Lump
Ramp V	L&R	695+25	703+50	825	2	1650					Lump	
Ramp V	L&R	703+50	712+75	925	1&1	925	275		250		Lump	
Ramp V1	L&R	694+10	695+25	115	1&1	200					Lump	
Ramp X	L	702+25	706+00	375	1		375					
Ramp X	L&R	702+55	706+40	385	1&1	385				Lump	Lump	
Ramp X	L&R	706+40	714+15	775	2	1550					Lump	
Ramp X	R	714+15	718+80	465	1&1		230		270			Lump
Alum Cr. Dr.	L	35+75	37+75	150	1				150			
Alum Cr. Dr.	L	35+75	45+20	945	2&1	1890		1890			Lump	
Alum Cr. Dr.	R	35+75	42+25	450	2&1	900		450				
Alum Cr. Dr.	R	42+25	43+25	100	1,&1	100		100	100			
Alum Cr. Dr.	R	43+25	45+20	195	2&1	390		195				
Alum Cr. Dr.	R	46+65	56+45	1090	2&1	2180		1090				
Alum Cr. Dr.	L	45+55	58+85	1330	2,1&1	2660		1330	60		Lump	
Alum Cr. Dr.	R	56+45	57+45	100	1,1&1	100		100	100			
Alum Cr. Dr.	R	57+45	58+85	140	2&1	280		140			Lump	
Alum Cr. Dr.	L&R	59+40	61+00	160	4&2	640		320			Lump	
Alum Cr. Dr.	L&R	61+00	67+90	690	4&2	2760		1380			Lump	
Alum Cr. Dr.	L&R	68+85	70+60	175	2	350						
Alum Cr. Dr.	L	70+60	72+00	140	1	140						
Alum Cr. Dr.	L&R	70+60	74+00	340	1&1	340	340					
Alum Cr. Dr.	L	73+00	74+00	100	1	100						
Carl Parsons Rd	L	8+00	32+25	2425	1		2425					
Obetz-Rose Rd	L	21+00	39+50	1850	1		*1850					
Lockbourne Rd	L	38+25	58+00	1975	1		1975					
Groveport Rd	L	129+25	159+16	2991	1		2991					
Howard Rd	L	18+75	19+70	95	1		95					
Linsay Rd	L	19+00	20+00	100	1		100					
I Section						76485	9976	74685	2700	Lump	Lump	Lump
*IG Section						*22000	*1850	*22000				
*State Participation												
Sub Totals to General Summary ~ Signing						98485	11826	96685	2700	Lump	Lump	Lump

*Conversion from L.F. to Miles, divide by 5280.
**Conversion from L.F. to Miles, multiply by .375 & divide by 5280.

Code 7221

GENERAL SUMMARY ~ SIGNING

Item	I Section	IG Section		Total	Unit	Description
620	142	55		197	Ea.	Delineators, Type A-1, Post Mounted
620	148			148	Ea.	Delineators, Type C-2, Post Mounted
620	2			2	Ea.	Delineators, Type C-3, Post Mounted
620	4			4	Ea.	Delineator, Type A-1, Bracket Mounted
621	14.49	4.17	1	18.66	Miles	4" Edge Lines
621	0.71	0.13		0.84	Miles	4" Lane Lines & Center Lines
621	5.31	1.56	V	6.87	Miles	6" Lane Lines & Center Lines
621	2700		3	2700	L.F.	8" Channelizing Lines
621	Lump			Lump	Lump	24" Stop Lines
621	Lump			Lump	Lump	Curb & Island Marking
621	Lump		4	Lump	Lump	Broad Transverse Stripes
625	2			2	Ea.	Sign Ballast, Type A
625	4			4	Ea.	Sign Ballast, Type B
625	2	1		3	Ea.	Sign Ballast, Type C
625	4	1		5	Ea.	Sign Ballast, Type D
625	8			8	Ea.	72" Light Fixture with T12cm/ha Lamps
625	10	3		13	Ea.	72" Light Fixture with T12cm/sha Lamps
625	2			2	Ea.	96" Light Fixture with T12cm/ha Lamps
625	1			1	Ea.	0.50 KVA 480/120 Volt Transformer
626	3			3	Ea.	0.75 KVA 480/120 Volt Transformer
625	3	1		4	Ea.	1.00 KVA 480/120 Volt Transformer
625	4			4	Ea.	30 Ampere Fusible Disconnect Switch w/ Type Y enclosure
625	3	1		4	Ea.	30 Ampere Fusible Disconnect Switch w/ Type Z enclosure
625	8	1		9	Ea.	Ground Rod Units
625	12	2		14	Ea.	Sign Wired Complete, as per plan
625	7	1		8	Ea.	Sign Service, as per plan
625	LUMP			LUMP	Lump	RELOCATE EXISTING HIGHWAY SIGNAL POLE AND APPURTENANCES, AS PER PLANS
625	LUMP			LUMP	Lump	RELOCATE EXISTING TRAFFIC CONTROL CABINET AND APPURTENANCES, AS PER PLANS
606	250			250	L.F.	Guard Rail, Type A, as per plan
815	1607	180		1787	S.F.	Sign Erection, Directional Guide Signs,
816	2		6	2	Ea.	Overhead Sign Support No. 12.24, Design 4, 11'6" Arms
816	1		7	1	Ea.	Overhead Sign Support No. 10.48, Design 5, 18'6" Arms (Mod.)
816	1			1	Ea.	Overhead Sign Support No. 12.24, Design 4, 25' Arm (Mod.)
816	1			1	Ea.	Overhead Sign Support No. 12.24, Design 5, 22' Arm
816	3	1		4	Ea.	Overhead Sign Support No. 12.24, Design 6, 22' Arm (Mod.)
816	30.8	39	11	347	C.Y.	Concrete Foundations for Overhead Sign Supports, as per plan
815	619.5	84		703.5	S.F.	Sign Erection, Regulatory Warning & Route Markings,
816	5.1	0.3		5.4	C.Y.	Concrete Foundations for Ground Mounted Sign Supports
816	132			132	L.F.	Steel Beam 41lb.
816	355			355	L.F.	Steel Beam 61lb.
816	347	56		403	L.F.	Steel Beam 81lb.

This Sheet
SHEET 178
SHT. 178-180
SHT. 178-180

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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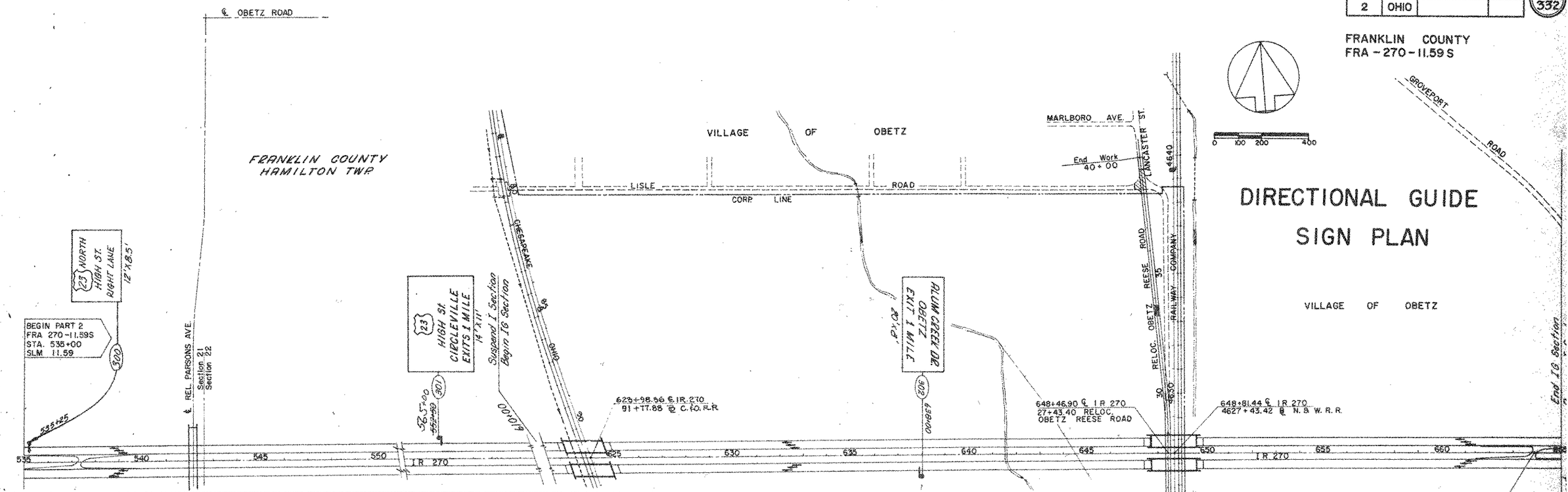
FRANKLIN COUNTY
FRA-270-11.59 S

DIRECTIONAL GUIDE SIGN PLAN

VILLAGE OF OBETZ



ITEM 816 DIRECTIONAL GUIDE SIGNS — SUB SUMMARY

ITEM 625 SIGN LIGHTING

REFERENCE NUMBER	STATION	GROUND MOUNTED: Dimensions As Shown On Elevation View — L Ft.	H Ft.	E1 Elev.	E2 Elev.	E3 Elev.	E4 Elev.	P1 Ft.	P2 Ft.	D Ft.	T Ft.	Item 815 Sign Erection (Gross Area) S.F.	Steel Beam 6 LB. L.F.	Steel Beam 8 LB. L.F.	Concrete for Sign Support Foundations C.Y.	OVERHEAD: Item 815 Sign Erection (Gross Area) S.F.	Sign Support No. 9, 24' Design No. 4, 11'6" Arms Ea.	Sign Support No. 10, 48' Mast Arms Ea.	Sign Support No. 12, 24' Mast Design No. 4, 28' Arms Ea.	Sign Support No. 12.24 (Mod.) Design No. 6, 22' Arms	Sign Support No. 12.24 Design No. 5, 22' Arm	Concrete Foundation for Overhead Sign Supports C.Y.	Item 606 Guard Rail Type 4 As Per Plan L.F.	Light Fixture / Lamp T12 Lewis-Sa As Per Plan LENGTH 72 Ea.	96 Ea.	Light Fixture / Lamp T12 Lewis-Ho As Per Plan 72 Ea.	96 Ea.	Sign Ballast As Per Plan TYPE A Ea.	B Ea.	C Ea.	D Ea.	480/120 Volt Transformer EVA 50 Ea.	75 Ea.	1.0 Ea.	1.5 Ea.	Disconnect Switch As Per Plan TYPE Y Ea.	Z Ea.	GROUND BOX UNITS Signs Wired Complete As Per Plan Ea.	Sign Service As Per Plan Ea.
I 270	301	565+00 W.B.														168				1		4.1	50								1							1	
	*302	638+00 E.B.														*180				*1		*3.9		*3						*1	*1		*1		*1			*1	
	303	670+50 E.B.														170				1		3.9		3						1	1		1		1			2	1
	304	688+04 E.B.														161	1					3.9	50			2	1	1	1				1		1			2	1
	305	713+47 W.B.														161	1					3.9	50			2	1	1	1				1		1			2	1
	306	722+07 W.B.														180				1		3.9		3						1	1		1		1			2	1
	300	535+25 W.B.														114					1	4.1	50	2						1		1		1			1	1
Rel. Plum Creek Dr.	307	42+27 N.B.														186.5			1			3.8	50	2		2			1		1		1			1	1	2	1
	308	56+90 N.B.	16	5.5	749.19	749.26	748.97	749.67	2.1	4.2	4.0	1.0	82.5		55	3.0																								
	309	62+00 S.B.															78.0				1		3.2			2			1			1			1	1	1	1
	311	58+33 S.B.	11	2.0	749.08	748.83	748.08		2.4	6.2	4.0	1.0	31	28		0.29																								
	312	52+45 S.B.	12	5.5	751.20	750.70	750.32	749.20	2.6	3.4	4.0	1.0	66		54	0.85																								
	313	44+83 S.B.	10	2.0	750.25	750.25	749.60		2.2	2.8	4.0	1.0	29	28		0.23																								
I SECTION													208.5	56	82	1.11		12.185	2	1	1		3	1	30.8	250	10		8	2	2	4	2	4	1	3	3		4	3	8	12	7
*IG SECTION																		180					1		3.9		3								1	1		1		1	2	1
SUB TOTAL ~ to General Summary ~ Signing Sht 177													208.5	56	82	1.11		13985	2	1	1		4	1	34.1	250	13		8	2	2	4	3	5	1	3	4		4	4	9	14	8

See Sheets 180 & 183 for additional quantities.

FED. RD. DIVISION	STATE	PROJECT		
2	OHIO			

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FRANKLIN COUNTY
FRA 270 - 11.59S

DIRECTIONAL GUIDE SIGN PLAN

VILLAGE OF OBETZ

Match line

Previous Sheet Resume I Section

Begin Work 129+25

STA EQUATION @ 74+13.45 RELOC. ALUM CREEK = C 42+23.47, 11.68 RT. ALUM CREEK

LINDSAY RD.

ALUM CREEK DRIVE

CORP. LINE

End Work 74+13

SCALE 0 100 200 400

HOWARD RD.

RELOC. ALUM CREEK DRIVE

GROVEPORT ROAD

RAMP W

RAMP V

RAMP X

RAMP Y

697+35.69 IR 270 = 50+00 REL. ALUM CR. DR.

IR 270

SAMSON FRONTAGE ROAD

RATHMILL ROAD

ALUM CREEK DRIVE

CORP. LINE

FRANKLIN COUNTY

MADISON TWP

1-270-4(2)-102
END PROJECT
FRA-270-11.59S
STA 725+00
SLM 15.19

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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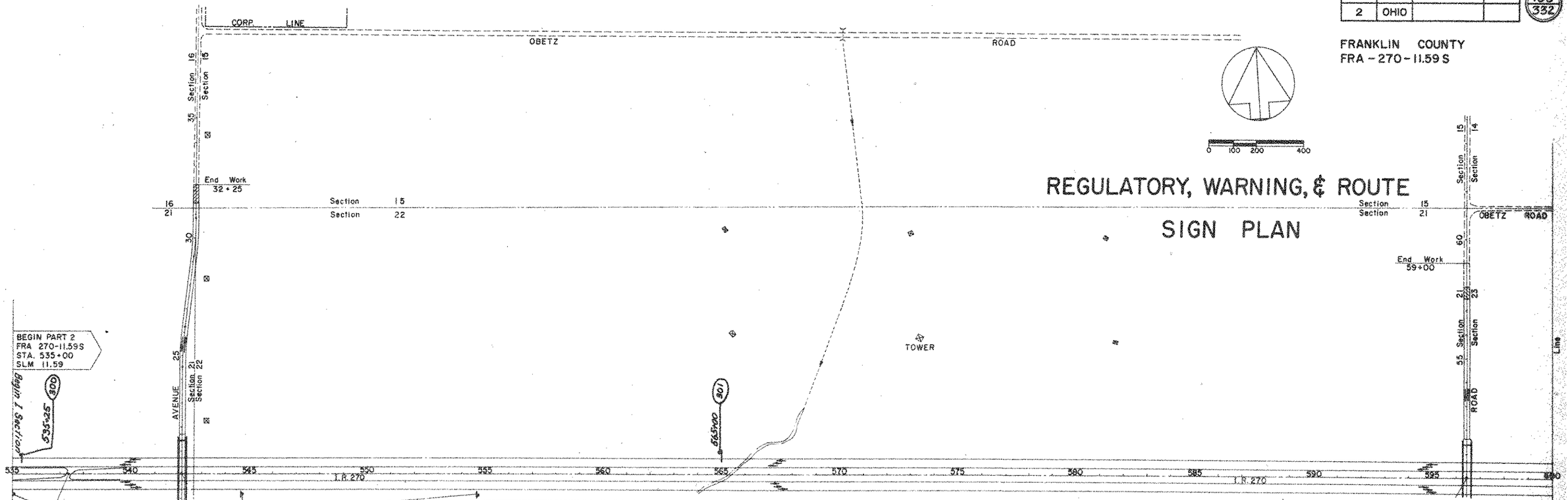
FRANKLIN COUNTY
FRA - 270 - 11.59 S

REGULATORY, WARNING, & ROUTE SIGN PLAN



SUB SUMMARY ~ ITEM 815 ~ REGULATORY, WARNING, & ROUTE SIGNS

				STATION / LOCATION	535+00	544+70	554+70	662+98	673+30	683+00	701+50	706+00	722+50	36+00	42+00	46+00	47+50	58+25	59+73	59+60	61+95	67+40	74+10	692+00	693+35	693+35	695+75	694+50	709+50	705+80	703+80	702+70	702+70	719+20	719+20	36+10			
				SHEET NO.	1	2	4	5	6	8	9	10	11	14	17	19	20	21	22	24	26	27	29	30	31	32	33	35	36	39	40	41	42	44	45	46			
	CODE NO.	SIZE			I R 270									REL. ALUM CREEK DRIVE										CROSSROADS & RAMPS													UNIT	Σ SECTION	Σ G SECTION
REGULATORY	R-1-30	2.5'x2.5'																																		S.F.	18	
	R-1-48	4'x4'																						16	16	16						16	16		6	6	6		80	
	R-2-48	4'x4'																									16			16								32	
	R-10-48	4'x5'	20				20																															40	
	R-16-48	4'x4'	16				16																															32	
	R-32L-30	2.5'x2.5'																											6									6	
	R-37A-66	3'x3.5'																			10.5	10.5									10.5							31.5	
	R-40-30	2.5'x3.5'												9			9		9	9																		36	
	R-41-36	3'x3'																						9	9							9						27	
	R-48-30	2.5'x3'																																					
WARNING	W-47-48	4'x4'													16																							16	
	W-49-48	4'x4'							16	16																												32	
	W-58-48	4'x4'																					16															16	
	W-59-48	4'x4'																16																				16	
	M-9A	Varies	26					15			15						9																					45	
ROUTE	GH	6' Varies			72	*84																																72	*84
	SPECIAL	10'x5'																						50				50										100	
	Sign Erection, R, W, & R		26	36	72	*84	36	15	16	16	15			9		16	9	9	16	9	9	105	105	16	50	25	25	16	16	50	6	16	265	25	6	6	6	S.F.	695	*84
SUPPORTS ITEM 816	Steel Beam, 4 lb.													15			15	16	15	15											14				14	14	14	L.F.	132	
	Steel Beam, 6 lb.							16	16	16	16					16			16			15	15	16	54		16		16	54		16						L.F.	299	
	Steel Beam, B16		34	42	56	*56	42																			16	16						16	16				L.F.	238	56
	Conc. foundation, EW&R		0.2	0.2	0.3	*0.3	0.2	0.1	0.1	0.1	0.1			0.1		0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.1	0.1	0.1	0.1	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	C.Y.	4.0	0.8

Sub Totals to General Summary Signing

Sheet 177

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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FRANKLIN COUNTY
FRA - 270 - 11.59 S

REGULATORY, WARNING, & ROUTE SIGN PLAN

VILLAGE OF OBETZ

0 100 200 400

GROVEPORT ROAD

VILLAGE OF OBETZ

MARLBORO AVE.

End Work 40+00

LANCASTER ST. @ 4640

OBETZ ROAD

LISLE CORP. LINE

OBETZ ROAD

80 CHESAPEAKE & OHIO

RELOC. OBETZ REESE ROAD 35 4635 30

RAILWAY COMPANY

FRANKLIN COUNTY
HAMILTON TOWNSHIP

Previous Sheet

Suspend I Section
Begin 16 Section

623+98.56 ℄ I R 270
90+77.88 ℄ C.& O.R.R.

648+46.90 ℄ I R 270
27+43.40 RELOC. OBETZ REESE ROAD

648+81.44 ℄ I R 270
4627+43.42 ℄ N. & W. R. R.

I 71 GROVE CITY 10 16"x6"

642+28

End 16 Section
Resume I Section

600 605 610 615 I R 270 620 625 630 635 640 645 650 I R 270 655 660

Match Line

95 RAILWAY COMPANY

208 638+00

25 4630

WESTERN CORP. LINE

Median Crossover
Sta 663+88.00

Begin Work 19+00

OBETZ REESE ROAD 4615 NORFOLK

Match Line Next Sheet

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2	OHIO		

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FRANKLIN COUNTY
FRA 270 - 11.59S

REGULATORY, WARNING, & ROUTE SIGN PLAN

VILLAGE OF OBETZ

SCALE 0 100 200 400

Begin Work 129+25

End Work 774+13

Metal Line Resume I Section

Drexlows Street

Mounted on 2 8"x8" Steel Beams spaced 44'-0"

SPEED LIMIT 70 TRUCKS 55

IR 270

GROVEPORT ROAD

ALUM CREEK DRIVE

HOWARD RD.

LINDSAY RD.

CORP. LINE

RAMP W

RAMP V

RAMP Y

RAMP X

SAMSON FRONTAGE ROAD

OBETZ RUM CREEK DR. NORTH \ SOUTH

DIVIDED HIGHWAY KEEP RIGHT

DIVIDED HIGHWAY ENDS

LEFT LANE MUST TURN LEFT

DIVIDED HIGHWAY KEEP LEFT

KEEP RIGHT

STOP

DO NOT ENTER

YIELD

WEST 270

NORTH 270

MERGING TRAFFIC

697+35.69 IR 270 - 50+00 REL. ALUM CR. DR.

62+00.30

44+88.13

42+77

713+42.90

722+07

1-270-4(2)-102
END PROJECT
FRA 270-11.59S
STA 725+00
SLM 15.19

FED. RD. DIVISION	STATE	PROJECT	
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FRANKLIN COUNTY
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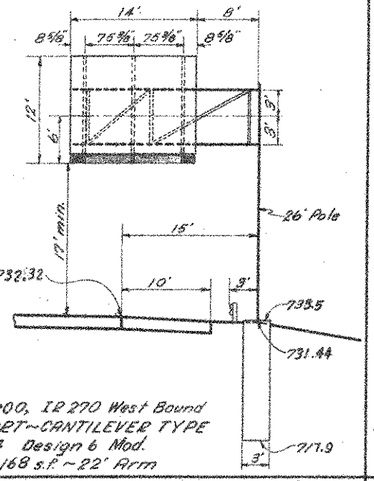
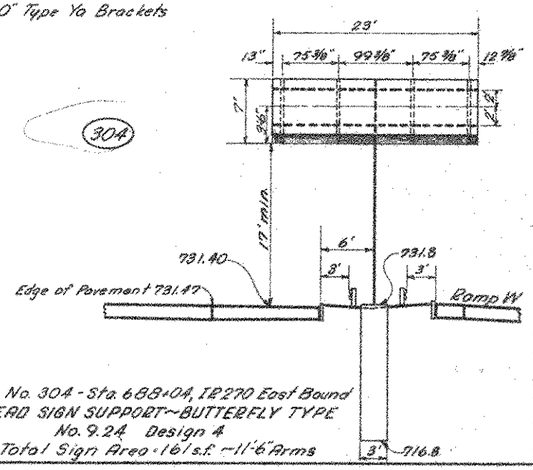
3, 12'-0" Type Ya Brackets



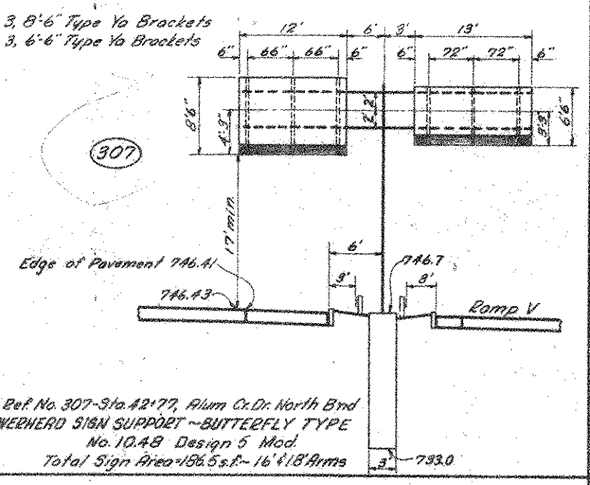
Ref. No. 301 - Sta. 563+00, IR 270 West Bound
OVERHEAD SIGN SUPPORT ~ CANTILEVER TYPE
No. 12.24 Design 6 Mod.
Total Sign Area = 168 s.f. ~ 22' Arm

4, 7'-0" Type Ya Brackets



Ref. No. 304 - Sta. 688+04, IR 270 East Bound
OVERHEAD SIGN SUPPORT ~ BUTTERFLY TYPE
No. 9.24 Design 4
Total Sign Area = 161 s.f. ~ 11'-6" Arms

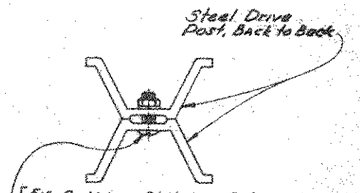
3, 8'-6" Type Ya Brackets
3, 6'-6" Type Ya Brackets



Ref. No. 307 - Sta. 42+77, Alum Cr. Dr. North Bnd
OVERHEAD SIGN SUPPORT ~ BUTTERFLY TYPE
No. 10.48 Design 5 Mod.
Total Sign Area = 156.5 s.f. ~ 16'4"/8' Arms

Note: All signing quantities shown on Sheet 178.

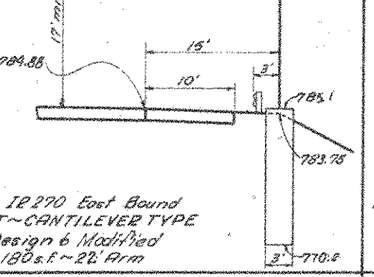
Steel Drive Post, Back to Back



⅝" Cadmium Plated or Galvanized Round or Truss Head Bolt, Hex. Nut and Lock Washer.

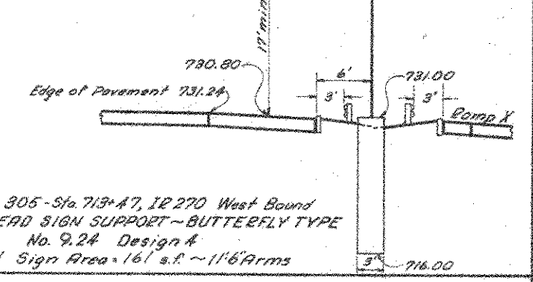
STEEL BEAM DETAIL

4, 9'-0" Type Ya Brackets



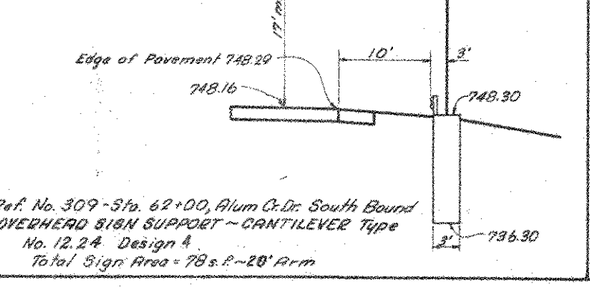
Ref. No. 302 - Sta. 638+00, IR 270 East Bound
OVERHEAD SIGN SUPPORT ~ CANTILEVER TYPE
No. 12.24 Design 6 Modified
Total Sign Area = 180 s.f. ~ 22' Arm

4, 7'-0" Type Ya Brackets



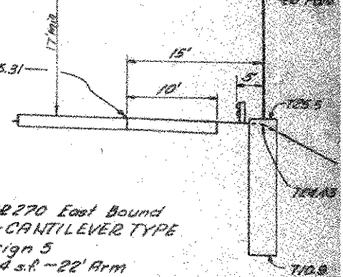
Ref. No. 305 - Sta. 713+47, IR 270 West Bound
OVERHEAD SIGN SUPPORT ~ BUTTERFLY TYPE
No. 9.24 Design 4
Total Sign Area = 161 s.f. ~ 11'6" Arms

3, 6'6" Type Ya Brackets



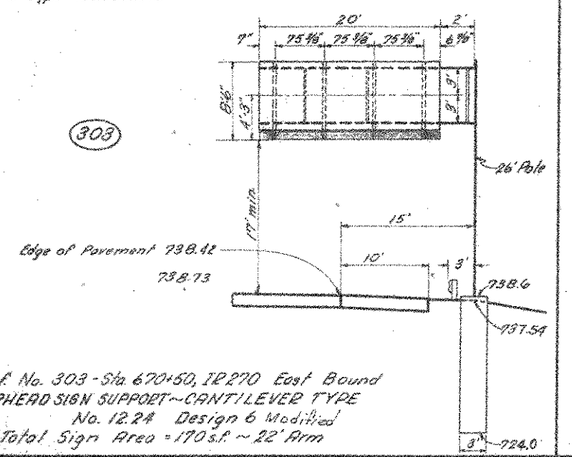
Ref. No. 309 - Sta. 62+00, Alum Cr. Dr. South Bound
OVERHEAD SIGN SUPPORT ~ CANTILEVER Type
No. 12.24 Design 4
Total Sign Area = 78 s.f. ~ 20' Arm

3, 9'-6" Type Ya Brackets



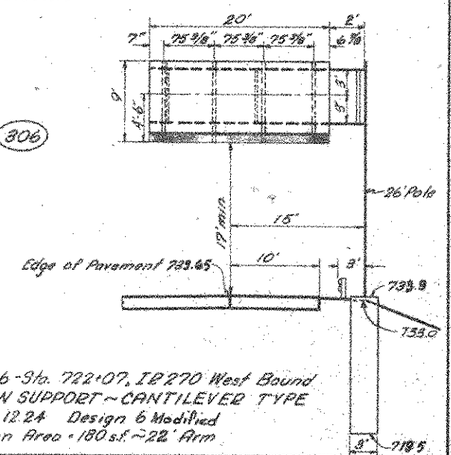
Ref. No. 300 - Sta. 535+25, IR 270 East Bound
OVERHEAD SIGN SUPPORT ~ CANTILEVER TYPE
No. 12.24 Design 5
Total Sign Area = 114 s.f. ~ 22' Arm

4, 8'6" Type Ya Brackets



Ref. No. 303 - Sta. 670+50, IR 270 East Bound
OVERHEAD SIGN SUPPORT ~ CANTILEVER TYPE
No. 12.24 Design 6 Modified
Total Sign Area = 170 s.f. ~ 22' Arm

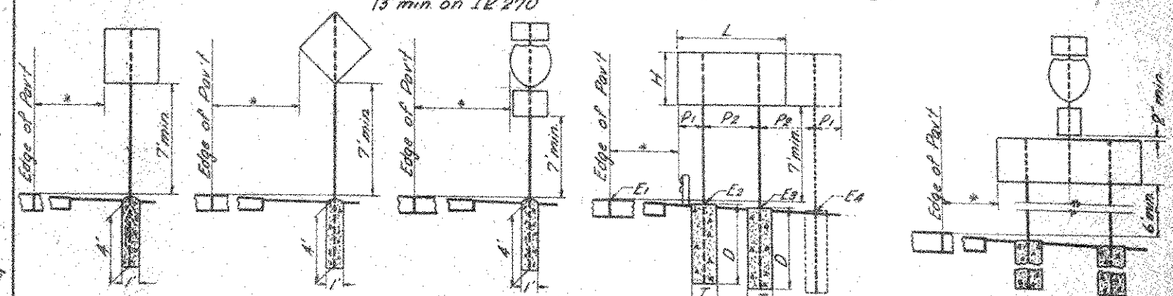
4, 9'0" Type Ya Brackets



Ref. No. 306 - Sta. 722+07, IR 270 West Bound
OVERHEAD SIGN SUPPORT ~ CANTILEVER TYPE
No. 12.24 Design 6 Modified
Total Sign Area = 180 s.f. ~ 22' Arm

TYPICAL PLACEMENT ~ GROUND MOUNTED SIGNS

* 9' min. on Ramps
6' min. on Rel. Alum Cr. Dr. (inside edge)
9' min. on Rel. Alum Cr. Dr. & Speed Change Lanes (outside edge)
13' min. on IR 270



REGULATORY SIGNS
Ref. Nos. 2, 7, 13, 14, 18, 19, 22, 24, 26-28, 30-33, 35, 37-42, 44-46.

WARNING SIGNS
Reg. Nos. 9-11, 17, 21, 25, 29, 34, 43.

ROUTE MARKERS
(& Distance/Direction Signs)
Ref. Nos. 1, 3-6, 8, 10R, 12, 15, 16, 20, 23, 30, 36, 47, 48.

DIRECTIONAL GUIDE SIGNS
Ground Mounted
Ref. Nos. 311, 313 (2 Post)
Ref. Nos. 4, 5, 30, 36, 308, 312 (3 POST)
See table on Sht 180

ROUTE MARKERS
Mtd. on Directional Guide Signs
Ref. Nos. 311, 313

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FRANKLIN COUNTY
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GENERAL NOTES

SIGNING

ITEM 625 SIGN SERVICE.

THIS ITEM WILL CONSIST OF THE COMPLETION OF THE ELECTRICAL SYSTEM AND COMPONENTS CONNECTING FROM THE ESNA CONNECTORS IN THE PULLBOX (INCLUDED WITHIN THE ROADWAY LIGHTING QUANTITIES) TO THE PRIMARY SIDE OF THE DISCONNECT SWITCH.

WORK WILL INCLUDE THE FURNISHING OF THE 2 INCH GALVANIZED STEEL CONDUIT ELLS TO BE INSTALLED UNDER ITEM "816 - CONCRETE FOUNDATIONS FOR SIGN SUPPORT, BY TYPE, AND THE FURNISHING AND INSTALLING, INCLUDING TRENCHING AND BACKFILLING, OF THE 2 INCH GALVANIZED STEEL CONDUIT AND COUPLINGS FROM THE PULLBOX TO THE SIGN SUPPORT FOUNDATION.

THIS ITEM WILL ALSO INCLUDE THE FURNISHING AND INSTALLING OF THE 1/C 600 VOLT SERVICE WIRE FROM THE CONNECTORS TO THE DISCONNECT SWITCH.

BASIS OF PAYMENT SHALL BE AT THE CONTRACT UNIT PRICE PER EACH INSTALLATION. WHICH PRICE SHALL INCLUDE ALL LABOR, MATERIAL, EQUIPMENT, AND INCIDENTALS NECESSARY TO FINISH THE COMPLETE ITEM OF WORK.

ITEM 625 DISCONNECT SWITCH WITH TYPE "Y" OR "Z" ENCLOSURE.

THE BASIS FOR PAYMENT FOR THIS ITEM SHALL BE ON A UNIT BID PER EACH BASIS, FURNISHED, INSTALLED, COMPLETE, AND ACCEPTED.

THE ITEM SHALL INCLUDE FURNISHING OF A 30 AMP. 600 VOLT FUSED DISCONNECT SWITCH OF TYPE AND MAKE AS INDICATED ON SHEET ES-3A AND SHALL BE MOUNTED IN A NEMA (4) STAINLESS STEEL ENCLOSURE TYPE "Y" OR "Z" AND ATTACHED TO EACH SIGN SUPPORT BY MEANS OF A MOUNTING BRACKET AS DESCRIBED IN DETAIL ON THE ABOVE SHEET.

ITEM 625 TRANSFORMER, BY TYPE.

THIS ITEM OF WORK SHALL CONSIST OF FURNISHING AND INSTALLING TRANSFORMERS AS DETAILED AND SPECIFIED ON SHEET ES-3A.

BASIS OF PAYMENT FOR THIS ITEM SHALL BE AT CONTRACT UNIT PRICE PER EACH, WHICH SHALL INCLUDE ALL LABOR, TOOLS, MATERIAL, AND EQUIPMENT REQUIRED FOR THIS COMPLETE ITEM OF WORK.

ITEM 625 BALLAST, BY TYPE.

THIS ITEM OF WORK SHALL CONSIST OF FURNISHING ALL BALLAST, TYPES A THROUGH D, AS DETAILED AND SPECIFIED ON SHEET EI-2.

BASIS OF PAYMENT FOR THIS ITEM SHALL BE AT THE CONTRACT UNIT PRICE PER EACH FURNISHED TO THE JOB FOR INSTALLATION UNDER ITEM 625 "SIGNS WIRED COMPLETE.

ITEM 625 LIGHT FIXTURE WITH LAMP, BY TYPE AND SIZE

THIS ITEM OF WORK SHALL CONSIST OF FURNISHING ALL LIGHT FIXTURES AND LAMPS, TYPES AND SIZES AS SPECIFIED ON SHEET EI-2.

BASIS OF PAYMENT FOR THIS ITEM SHALL BE AT THE CONTRACT UNIT PRICE PER EACH FURNISHED TO THE JOB FOR INSTALLATION UNDER ITEM 625 'SIGNS WIRED COMPLETE.

ITEM 625 GROUND ROD UNITS

THIS ITEM OF WORK SHALL CONSIST OF FURNISHING AND INSTALLING GROUND ROD AND WIRE AS DETAILED AND SPECIFIED ON SHEET ES-3A. ALSO INCLUDED WILL BE THE COST OF FURNISHING THE 1/2 INCH EMT GROUND WIRE CONDUIT FOR INSTALLATION UNDER ITEM 816 "CONCRETE FOUNDATIONS FOR SIGN SUPPORT. BY TYPE.

BASIS OF PAYMENT FOR THIS ITEM SHALL BE AT CONTRACT UNIT PRICE PER EACH, WHICH SHALL INCLUDE ALL LABOR, TOOLS, MATERIAL AND EQUIPMENT REQUIRED FOR THE COMPLETE ITEM OF WORK.

ITEM 625 SIGNS WIRED, COMPLETE.

THIS ITEM SHALL CONSIST OF THE FURNISHING AND/OR INSTALLATION OF THE ELECTRICAL SIGN LIGHTING SYSTEM COMPONENTS FOR EACH ILLUMINATED SIGN.

WORK SHALL INCLUDE INSTALLATION OF LIGHT FIXTURES AND BALLASTS, AND FURNISHING AND INSTALLATION OF ALL RIGID AND FLEXIBLE CONDUIT, CONDULETS, JUNCTION BOXES, WIRE, FASTENERS, HARDWARE, AND ALL OTHER ITEMS REQUIRED TO ENERGIZE THE SIGN LIGHTING SYSTEM. SEE DETAILS ON SHEETS EI-1 AND EI-2, ES-3A.

BASIS OF PAYMENT SHALL BE AT THE CONTRACT UNIT PRICE PER EACH SIGN WIRED, WHICH PRICE SHALL INCLUDE ALL LABOR, MATERIALS, TOOLS, EQUIPMENT, AND OTHER INCIDENTALS TO PROVIDE A COMPLETE AND ACCEPTED ITEM OF WORK.

THE COST OF FURNISHING AND INSTALLING WIRE AND NECESSARY FASTENERS FROM THE DISCONNECT SWITCH TO THE SIGNS, OR BETWEEN SIGNS WITHIN SIGN SUPPORT MEMBERS, SHALL BE INCIDENTAL TO THE COST OF VARIOUS ITEMS INCLUDED IN THIS ITEM OF WORK.

ILLUMINATED SIGNS REQUIRING TWO BALLASTS SHALL BE CONSIDERED AS AN EQUIVALENT OF TWO SEPARATE SIGNS FOR DETERMINATION OF PAYMENT QUANTITIES

816 ALTERNATE DESIGNS FOR OVERHEAD SIGN SUPPORTS

IF THE CONTRACTOR DESIRES TO FURNISH AN ALTERNATE DESIGN FOR OVERHEAD SIGN SUPPORTS, THE ALTERNATE DESIGNS MUST BE SUBMITTED TO THE STATE AT LEASE 21 DAYS PRIOR TO OPEN OF BIDS. THE BIDDER WILL BE NOTIFIED AS TO ACCEPTANCE OR REJECTION OF THE ALTERNATE DESIGN AT LEASE 7 DAYS BEFORE BIDS ARE TO BE OPENED. ALTERNATE DESIGNS MUST UTILIZE TUBULAR STRUCTURAL MEMBERS. SUBMISSIONS SHALL BE MADE TO, OHIO DEPARTMENT OF HIGHWAYS, BUREAU OF TRAFFIC, 450 E. TOWN STREET, COLUMBUS, OHIO, 43216.

816 STRUCTURAL SUPPORTS STEEL BEAM (TYPE)

THE STRUCTURAL STEEL BEAM SUPPORTS SHALL BE GALVINIZED (AFTER PUNCHING) IN ACCORDANCE WITH ASTM A-123

QUANTITIES FOR ITEM 816 "STRUCTURAL SUPPORTS, STEEL BEAM (TYPE)" APPEARING IN THE QUANTITY TABLES ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING EXACT SUPPORT LENGTHS PRIOR TO FABRICATION AND GALVANIZING OF SUPPORTS.

PAYMENT SHALL BE AT THE CONTRACT UNIT PRICE BID PER LIN. FT., WHICH PRICE AND PAYMENT SHALL INCLUDE ALL COSTS IN CONNECTION WITH THE EMBEDMENT OF THE SUPPORTS.

THE COST OF THE CONCRETE USED FOR EMBEDMENT WILL BE A SEPERATE PAY ITEM.

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GENERAL NOTES

MATERIALS - GENERAL

MATERIALS TO BE FURNISHED MAY BE SPECIFIED IN THE PLANS BY A GIVEN MANUFACTURER'S CATALOG NUMBER OR TYPE. THIS IS FOR DESCRIPTIVE PURPOSES ONLY AND THE CONTRACTOR MAY ASSUME THAT APPROVED EQUAL MATERIALS MAY BE FURNISHED.

ITEM 816 - OVERHEAD SIGN SUPPORT, BY TYPE.

ALL COMPONENT PARTS OF THE OVERHEAD SIGN SUPPORTS SHALL BE STEEL, EXCEPT FOR THE TRUSS AND COMPONENTS FOR THE NUMBER 7 SERIES WHICH SHALL BE ALUMINUM.

COST OF FURNISHING AND INSTALLING THE FIXTURE SUPPORT ARM, LENGTH "G", WITH MOUNTING HOLES AND HARDWARE, SEE SHEETS EI-1 AND EI-2, SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE BID FOR OVERHEAD SIGN SUPPORTS.

MODIFYING SUPPLEMENTAL SPECIFICATION 816 SWITCH ENCLOSURE MOUNTING BRACKETS, INCLUDING MOUNTING BOLTS AND DRILLED HOLES, SHALL BE FURNISHED AND INSTALLED UNDER PAYMENT OF ITEM 816 OVERHEAD SIGN SUPPORT STRUCTURES AT THE CONTRACT PRICE PER "OVERHEAD SIGN SUPPORT, BY TYPE".

PAYMENT FOR THIS ITEM SHALL BE MADE AT THE CONTRACT UNIT PRICE BID FOR EACH "OVERHEAD SIGN SUPPORT, BY TYPE" INSTALLED IN PLACE AND ACCEPTED, WHICH PRICE SHALL BE FULL COMPENSATION FOR FURNISHING ALL ANCHOR BOLTS (FOR INSTALLATION UNDER ITEM 816 "CONCRETE FOUNDATIONS FOR OVERHEAD SIGN SUPPORT"), AND FOR FURNISHING AND INSTALLING EACH OVERHEAD SIGN SUPPORT STRUCTURE SHOWN ON THE SIGNING PLAN, INCLUDING FIXTURE SUPPORT ARMS, SWITCH ENCLOSURE MOUNTING BRACKET, SIGN BRACKETS, AND ALL COMPONENT PARTS NECESSARY TO MAKE A COMPLETE WORKABLE INSTALLATION READY FOR SIGN ERECTION, INSTALLATION OF DISCONNECT SWITCH AND ENCLOSURE, GROUND ROD AND WIRE CONNECTIONS, AND SIGN WIRING.

ERECTION OF THESE SUPPORTS SHALL BE ACCOMPLISHED IN A MANNER MEETING THE REQUIREMENTS OF SUPPLEMENTAL SPECIFICATION NUMBER 816.

ELECTRICAL - GENERAL

THIS ITEM SHALL CONSIST OF FURNISHING ALL NECESSARY MATERIAL, LABOR AND FACILITIES REQUIRED TO COMPLETE THE ELECTRICAL INSTALLATION IN ACCORDANCE WITH THE DESIGNS, DIMENSIONS, AND DETAILS SHOWN IN THE PLANS AND DESCRIBED IN THE SPECIFICATIONS.

ALL MATERIAL, WORKMANSHIP, AND CONSTRUCTION METHODS, EXCEPT AS MODIFIED HEREIN, SHALL CONFORM TO THE GENERAL REQUIREMENTS OF THE STATE OF OHIO, DEPARTMENT OF HIGHWAYS, CONSTRUCTION AND MATERIALS SPECIFICATIONS, JANUARY 1, 1965.

ITEM 816 - CONCRETE FOUNDATIONS FOR SIGN SUPPORT, BY TYPE.

PAYMENT FOR THIS ITEM SHALL BE PER CUBIC YARD BASED ON APPROVED PLAN DIMENSIONS, OR DIMENSIONS AS MODIFIED BY THE ENGINEER.

PAYMENT FOR FURNISHING AND INSTALLING REINFORCING STEEL SHALL BE INCLUDED IN THE UNIT PRICE BID PER CUBIC YARD OF CONCRETE FOR OVERHEAD SIGN SUPPORT FOUNDATIONS.

PAYMENT FOR INSTALLATION ONLY OF THE 2 INCH GALVANIZED STEEL CONDUIT ELLS AND THE 1/2 INCH EMT GROUND WIRE CONDUIT WILL BE INCLUDED IN THIS ITEM. PAYMENT FOR FURNISHING THIS CONDUIT IS INCLUDED UNDER "SIGN SERVICE," AND "SIGN SUPPORT GROUND ROD AND WIRE CONNECTION".

FOUNDATIONS SHALL BE CONSTRUCTED IN THE MANNER CALLED FOR UNDER SUPPLEMENTAL SPECIFICATION 816. CONCRETE SHALL BE CLASS "C".

ITEM 815 - SIGN ERECTION, BY TYPE.

THE CONTRACTOR SHALL ERECT SIGN PANELS FURNISHED BY OTHERS AS NOTED ON THE SIGNING PLAN. THE PANELS SHALL BE MOUNTED ON THE BRACKETS OR BEAM SUPPORTS PROVIDED IN THE PLANS.

A SCHEDULE FOR SIGN ERECTION SHALL BE SUBMITTED TO THE ENGINEER, BUREAU OF TRAFFIC, 450 EAST TOWN STREET, COLUMBUS, OHIO, 60 CALENDAR DAYS PRIOR TO THE START OF ANY SCHEDULED ERECTION WORK. THE SCHEDULE SHALL INCLUDE PROPOSED DATES, TIMES, SIGN NUMBERS AND DELIVERY POINT.

THE PRICE BID PER SQUARE FOOT FOR "ITEM 815 - SIGN ERECTION, BY TYPE" SHALL INCLUDE ALL NECESSARY EQUIPMENT, MANPOWER, AND TOOLS TO ERECT THE SIGNS NOTED. ALL SIGN MATERIAL AND ACCESSORIES WILL BE FURNISHED AND TRANSPORTED TO A DESIGNATED DELIVERY POINT, ON OR NEAR THE SUBJECT PROJECT BY OTHERS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE HANDLING AND STORAGE OF THE SIGN PANELS AND ACCESSORIES FROM THE TIME OF ARRIVAL AT THE DELIVERY POINT.

ITEM 606 GUARD RAIL, TYPE 4, AS PER PLAN

GUARD RAIL, TYPE 4, AS PER PLAN, SHALL HAVE THE POSTS SPACED AT INTERVALS OF 6'-3".

WIRE AND CABLE

WIRE AND CABLE INSTALLATION SHALL CONFORM TO SECTION 625, THE CONSTRUCTION AND MATERIAL SPECIFICATIONS, AND SHALL BE OF THE SIZES AND TYPES SHOWN ON THE PLANS.

INSPECTION AND TESTING OF SIGN LIGHTING

THE CONTRACTOR SHALL FURNISH ALL EQUIPMENT NECESSARY TO DEMONSTRATE TO THE ENGINEER THAT ALL CIRCUITS ARE FREE FROM SHORT CIRCUITS AND UNSPECIFIED GROUNDS, AND ARE PROPERLY CONNECTED AND OPERABLE BEFORE ACCEPTANCE. THIS DEMONSTRATION SHALL INCLUDE A MEGGARING TEST TO SHOW THAT ALL CONDUCTORS ARE CLEAR OF GROUNDS AND THAT THE RESISTANCE AT THE GROUND IS NOT MORE THAN 25 OHMS. VOLTAGE AND AMPERAGE TESTS SHALL BE MADE AT THE SIGN SUPPORT SWITCH.

PAYMENT FOR THESE TESTS SHALL BE CONSIDERED A SUBSIDIARY WORK ITEM, INCLUDED IN THE UNIT PRICE BID FOR THE RESPECTIVE ITEMS TESTED.

AFTER THE SIGN LIGHTING SYSTEM IS COMPLETED, THE ENTIRE SYSTEM SHALL BE OPERATED CONTINUOUSLY EACH NIGHT UNTIL SEVEN (7) CONSECUTIVE DAYS ELAPSE WITHOUT FAILURE OR DEFECT. THE CONTRACTOR SHALL CORRECT ANY DEFECTS WHICH MAY DEVELOP AT NO EXTRA COST TO THE STATE.

DURING THE TEST PERIOD, ADJUSTMENTS TO FIXTURE AIMING ANGLES SHALL BE MADE AS DIRECTED BY THE ENGINEER TO OBTAIN MAXIMUM UNIFORMITY IN SIGN ILLUMINATION.

CERTIFICATION AND APPROVAL OF SIGN SUPPORTS AND LIGHTING ITEMS

THE CONTRACTOR SHALL SUBMIT THROUGH PROPER CHANNELS THE DRAWINGS. INFORMATION OR SAMPLES AS REQUIRED BELOW:

(A) SIX (6) COPIES OF THE FOLLOWING: SHOP DRAWINGS AND MATERIAL LISTS FOR APPROVAL FOR
1. OVERHEAD SIGN SUPPORTS.
2. SIGN LIGHTING DETAILS.
3. CATALOG CUTS, DESCRIPTIONS OR SAMPLES OF FABRICATOR'S STANDARD ITEMS AS SHOWN IN THE PLANS OR THEIR EQUAL FOR APPROVAL.

(B) CERTIFICATIONS OR SAMPLES FOR ALL MATERIALS WHICH HAVE BEEN APPROVED ABOVE UNDER ITEM (A) SHALL BE IN POSSESSION OF THE CONTRACTOR PRIOR TO ANY PURCHASE OR INSTALLATION.

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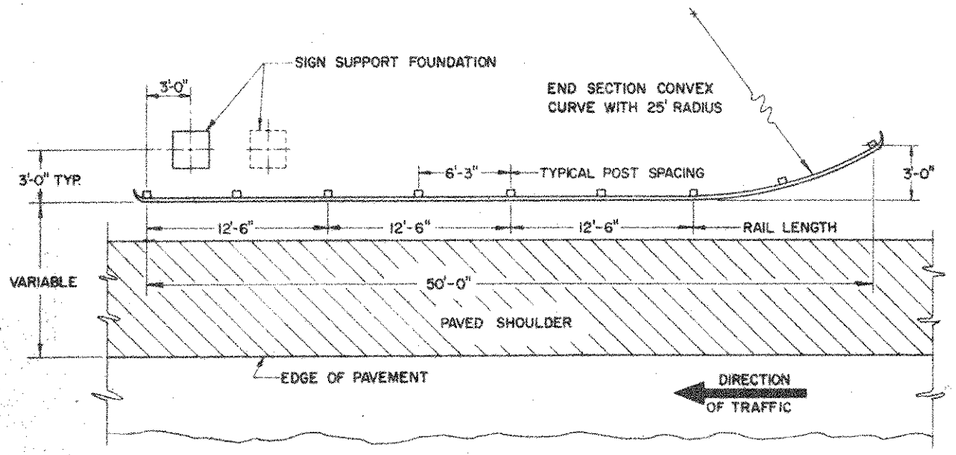
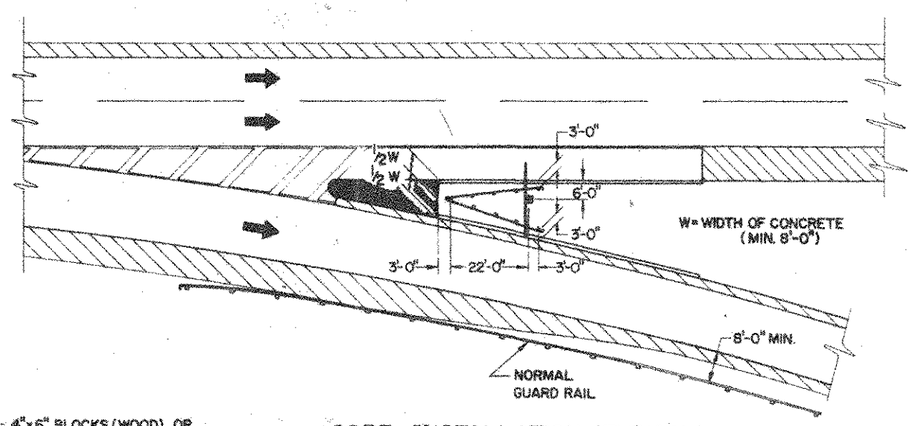
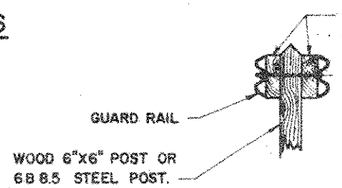


GUARD RAIL DETAILS

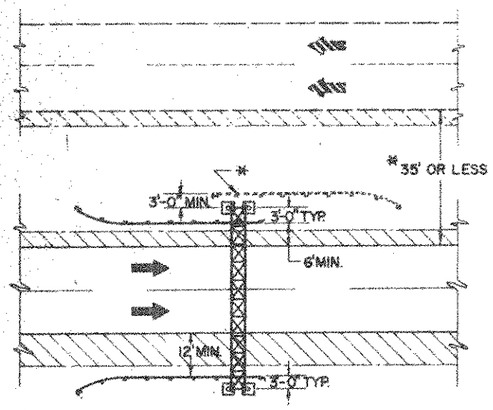


GORE INSTALLATION (TYPICAL)

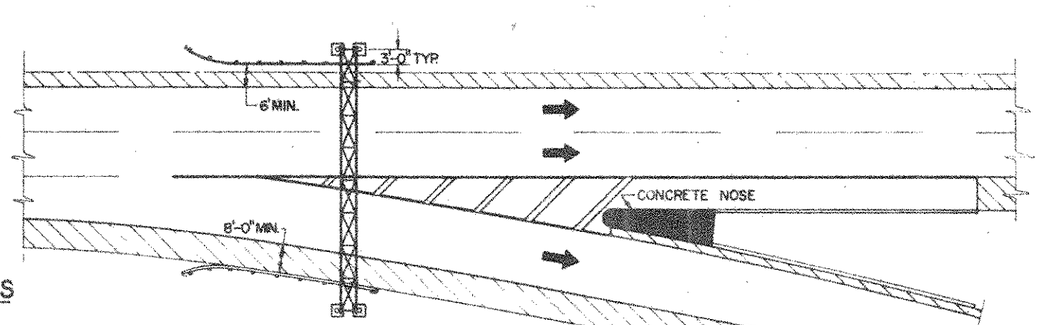


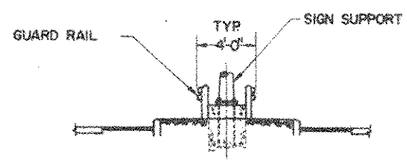
NOTE:
TYPICAL TREATMENT OF FIRST POST IN MEDIAN FLARED SECTION.

SECTION B-B

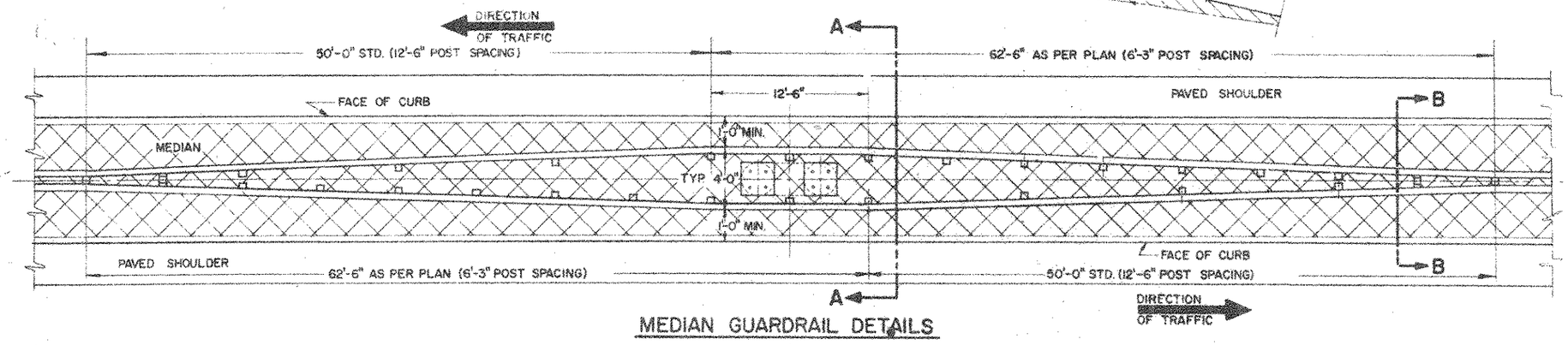


GUARD RAIL DETAILS
(SPAN TYPE)





SECTION A-A



MEDIAN GUARDRAIL DETAILS

NOTES

GENERAL

PROTECTIVE GUARD RAIL FOR OVERHEAD SIGN STRUCTURES SHALL CONFORM TO ITEM 606 AND STANDARD CONSTRUCTION DRAWING GR. NO. 1 & 2A.

A MIN. OF 50' OF GUARDRAIL IS REQUIRED USING 6'-3" POST SPACING. WHEN 12'-6" POST SPACING IS SPECIFIED, THE MINIMUM GUARD RAIL LENGTH SHALL BE 75'.

WHERE THE PROPOSED GUARD RAIL FLARES, IT SHALL BE CONSTRUCTED OF GUARD RAIL ELEMENTS WHICH HAVE BEEN FABRICATED TO FIT.

IN CASES WHERE NO RADII HAS BEEN SPECIFIED OR THE FABRICATED ELEMENTS DO NOT FIT THE CONDITIONS, THE TWO END POSTS OF THE FLARED SECTION SHALL BE ENCASED IN A MINIMUM THICKNESS OF 4" OF CLASS "E" CONCRETE FOR THE FULL DEPTH OF OF THE POST BELOW THE GROUND LINE. PAYMENT FOR ENCASEMENT, IF REQUIRED, SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE GUARD RAIL.

ALL GUARD RAIL SHALL HAVE APPROPRIATE TERMINAL SECTIONS. FOR DETAILS SEE GR. NO. 2A. THE GORE INSTALLATIONS NOSE SECTION SHALL BE A BARRIER TERMINAL TYPE MOUNTED ON A SINGLE POST.

DESIGN

THE DESIGN OF GUARD RAIL PROTECTION FOR OVERHEAD SUPPORTS IS IN ACCORDANCE WITH A.A.S.H.O. SPECIFICATIONS FOR THE DESIGN AND CONSTRUCTION OF STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, ADOPTED JUNE 12, 1961.

BUREAU OF TRAFFIC
OHIO DEPARTMENT OF HIGHWAYS

GUARD RAIL DETAILS FOR OVERHEAD SIGN SUPPORTS	GR. NO. 7	DATE 3-10-65 6-1-65

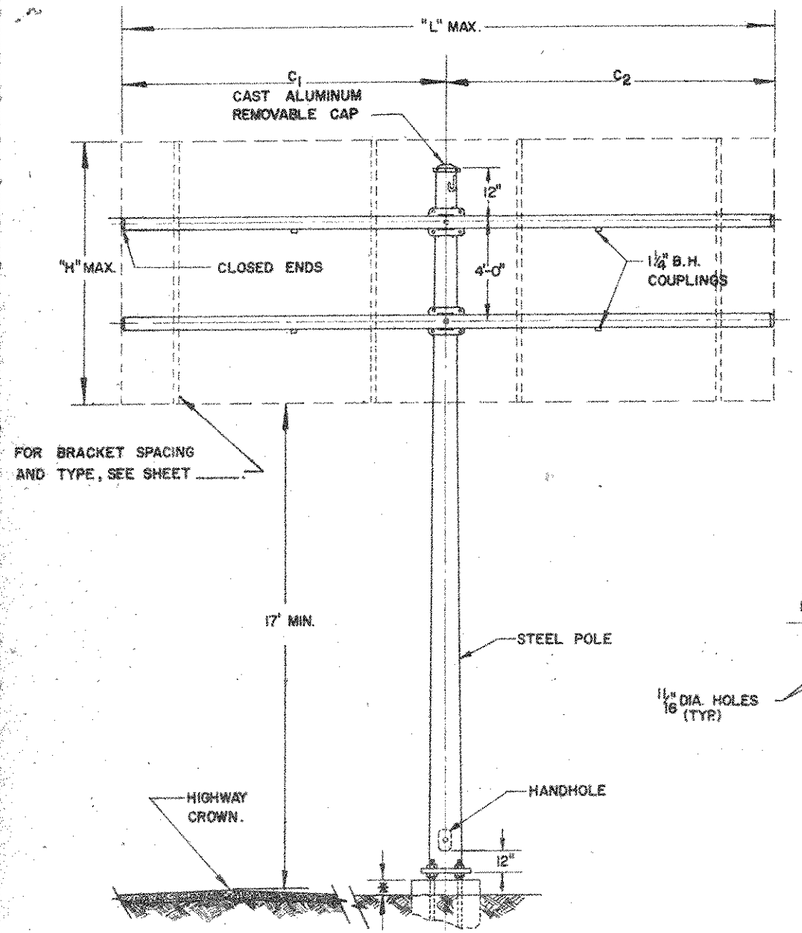
APPROVED Fred C. Parker
ENGINEER OF TRAFFIC

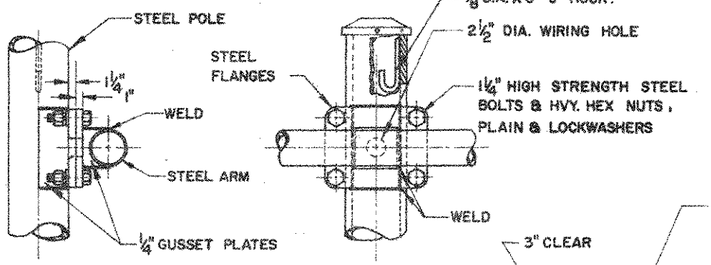
GUARD RAIL DETAILS FOR OVERHEAD SIGN SUPPORTS, GR. NO. 7

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

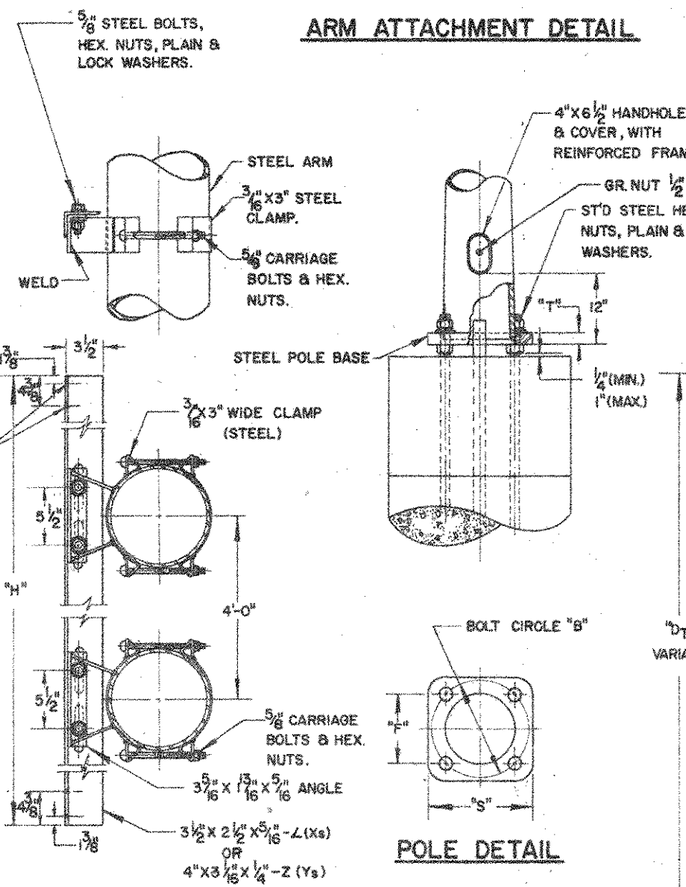
187
332

FRANKLIN COUNTY
FRA-270-11.59 S



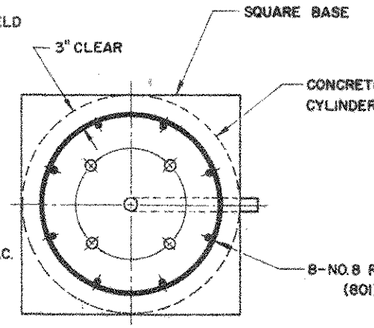


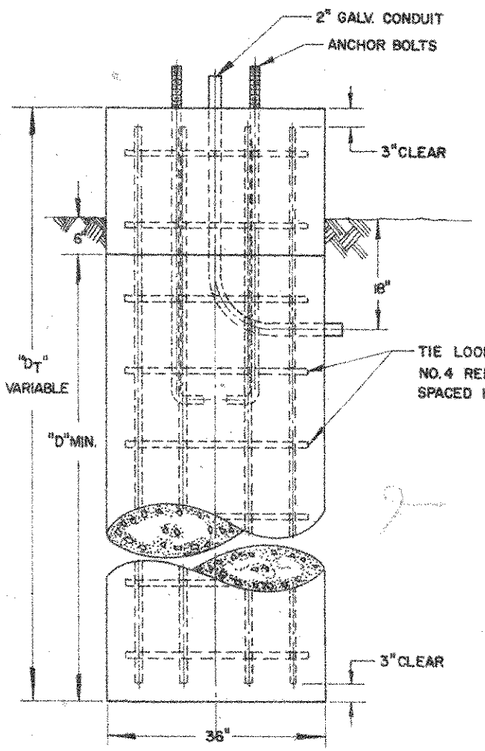
ARM ATTACHMENT DETAIL



POLE DETAIL

SIGN ATTACHMENT DETAIL





FOUNDATION DETAIL

DESIGN	POLE SIZE (STD.)	MAX. ARM SIZE	MAX. SIGN LENGTH "L"	MAX. SIGN AREA	B	F	P	S	T	ANCHOR BOLTS	"D" MIN.
1.	3GA. 14"X10.76"X23'	4" SCH. 40 12'-0"	24'-0"	120 SQ FT	20"	14⅛"	7"	20½"	2"	1¾" X 90"	9'
2.	3GA. 16.5"X13"X 25'	4"SCH. 40 9'-0"	18'-0"	180 SQ FT	23½"	16⅝"	8"	24½"	2"	2" X 96"	11'
3.	3GA. 16.5" X13.28"X23'	6"SCH. 40 12'-0"	24'-0"	180 SQ FT	23½"	16⅝"	8"	24½"	2"	2" X 96"	11'
4.	0GA. 18" X 14.5"X25'	6"SCH. 40 12'-0"	24'-0"	240 SQ FT	25½"	18"	9"	26½"	2½"	2¼"X96"	13'

REINFORCEMENT SCHEDULE				
MARK	NO.	LEN.	TYPE	
402	12 c/c	8'-6"	103	2'-6"
801	8	D_T-6"	STR.	103

NOTES

GENERAL

MAXIMUM SIGN AREAS AND ARM LENGTHS SHOWN IN TABLE, ARE FOR BALANCED DESIGN ($C_1 = C_2$).

FOR UNBALANCED DESIGN ($C_1 \geq C_2$), THE PRODUCT OF THE ACTUAL SIGN AREA (C_1 H or C_2 H) TIMES 1/2 OF ACTUAL ARM (1/2 C_1 or 1/2 C_2) SHALL BE LESS THAN THE PRODUCT OF 43% OF MAXIMUM SIGN AREA TIMES 1/2 MAX ARM FOR BALANCED DESIGN. (0.43 H $2C_1$ $1/2C_1$ or 0.43 H $2C_2$ $1/2C_2$)

DESIGN

THE DESIGN OF OVERHEAD SUPPORTS SHALL BE IN ACCORDANCE WITH A.A.S.H.O. SPECIFICATION FOR THE DESIGN AND CONSTRUCTION OF STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, ADOPTED JUNE 13, 1961.

* FOUNDATION

THE TOP ELEVATION OF FOUNDATIONS SHALL BE VARIED SO AS TO MAINTAIN A MINIMUM CLEARANCE OF 17' BETWEEN THE BOTTOM OF THE SIGN AND THE HIGHWAY CROWN.

SOILS

THE FOUNDATION DETAILS SHOWN ARE FOR AVERAGE SOIL CONDITIONS (MEDIUM CLAY, CEMENTED SAND AND GRAVEL, SANDY CLAY, OR STIFF CLAY). FOR POOR SOIL CONDITIONS, INCREASE "D" MIN. BY: 30% IN DRY OR WET SAND, 60% IN SILTY CLAY, 100% IN SOFT CLAY, AND FROM 75% TO 150% IN WET SILT, DEPENDING ON QUICKSAND ACTION.

FINISH

ALL STRUCTURAL PORTIONS OF THE SIGN SUPPORTS, SIGN BRACKETS, HARDWARE AND CONDUIT SHALL BE HOT DIPPED GALVANIZED IN ACCORDANCE WITH S.S. 816.02 (EXCEPT AS OTHER WISE SHOWN).

MATERIALS

ALL MATERIALS TO BE FURNISHED SHALL BE IN ACCORDANCE WITH S.S. 816.02 WITH THE FOLLOWING ADDITIONS:

TAPERED TUBES SHALL BE STEEL, SAE 1015 AND COLD ROLLED TO OBTAIN A MINIMUM YIELD STRENGTH OF 48,000PSI.
STEEL PIPE: 4" DIAMETER AND UNDER SHALL BE STEEL-ASTM-A120
OVER 4" DIAMETER SHALL BE ASTM-A53, GRADE B
ANCHOR BOLTS SHALL BE HIGH STRENGTH STEEL ASTM-A107, GRADE C-1035
HIGH STRENGTH CLAMPS SHALL BE STEEL-ASTM-A242

REINFORCING STEEL

COST OF REINFORCING STEEL SHALL BE INCLUDED IN THE UNIT PRICE FOR ITEM 816 CONCRETE FOR SIGN SUPPORT FOUNDATIONS.

BAR SIZE IS INDICATED IN THE BAR MARK. THE FIRST DIGIT WHERE THREE DIGITS ARE USED AND THE FIRST TWO DIGITS WHERE FOUR ARE USED, INDICATE THE BAR SIZE NUMBER.

BUREAU OF TRAFFIC
OHIO DEPARTMENT OF HIGHWAYS

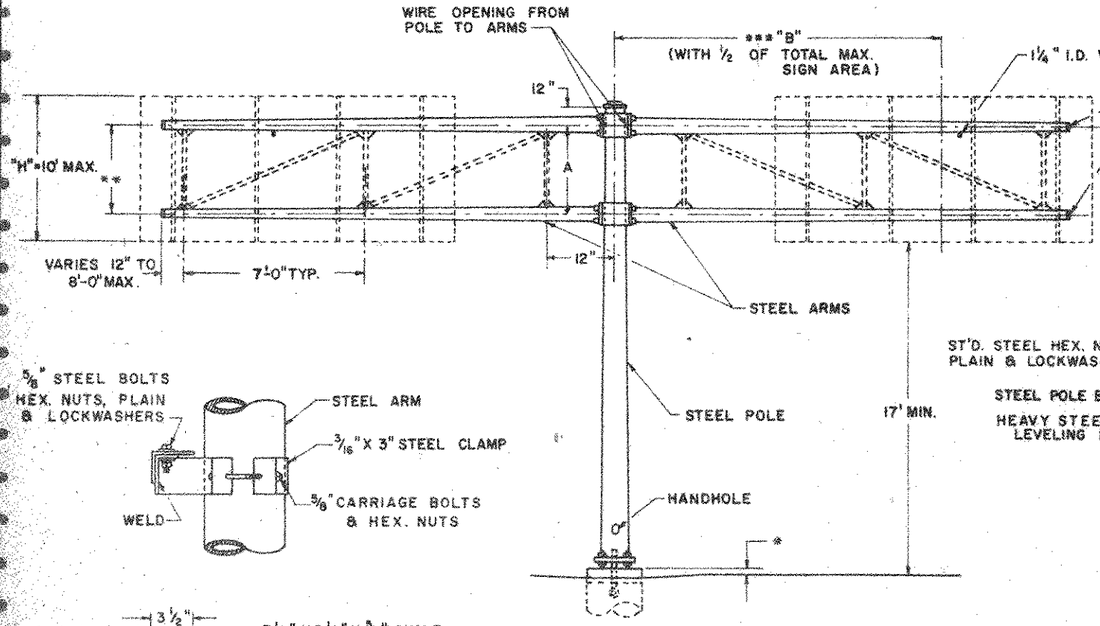
OVERHEAD SIGN SUPPORT	816 No.9.24	DATE 6-17-64

APPROVED _____ ENGINEER OF TRAFFIC

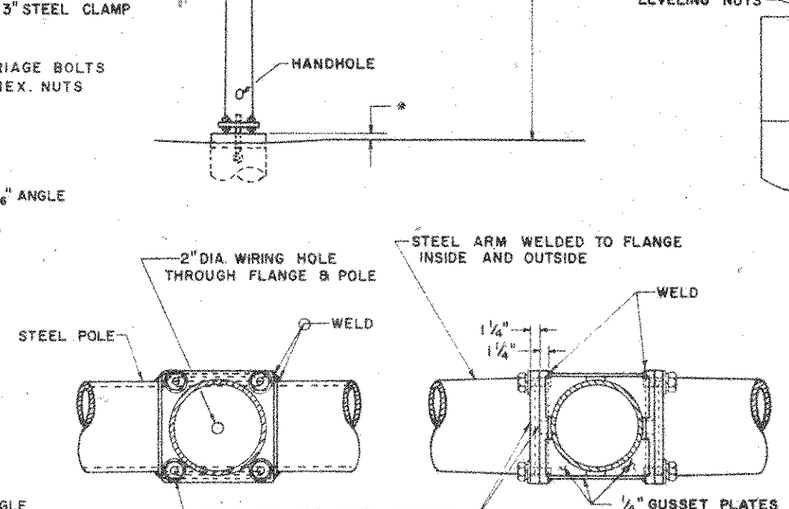
FED. NO. DIVISION	STATE	PROJECT	
2	OHIO		

188
332

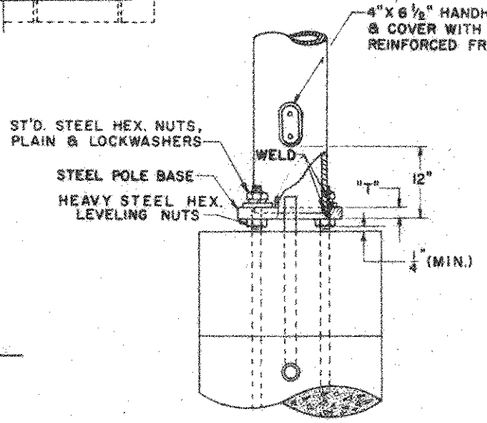
FRANKLIN COUNTY
FRA-270-11.59S

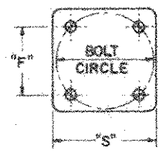


SIGN ATTACHMENT DETAIL

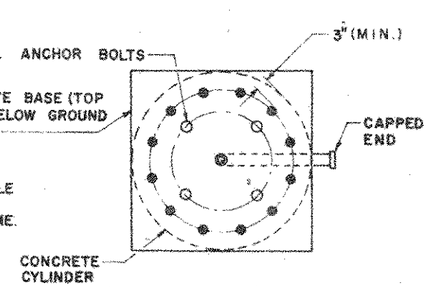


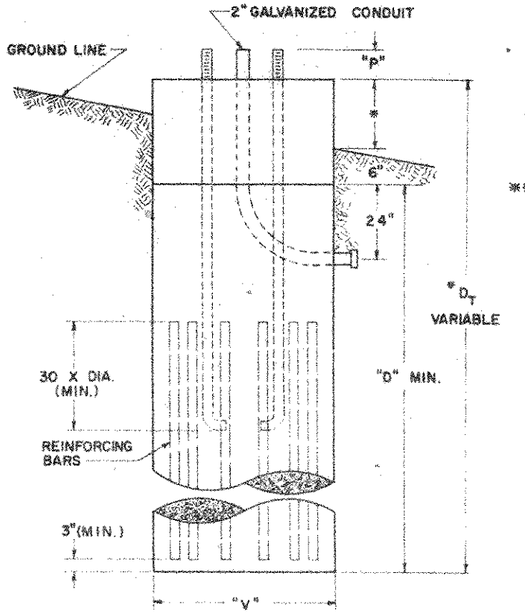
BEAM CONNECTION DETAIL





POLE DETAIL





FOUNDATION DETAIL

NOTES

FABRICATION - ALL PORTIONS OF THE SIGN SUPPORT INCLUDING SIGN ATTACHMENTS, SHALL BE HOT DIP GALVANIZED IN ACCORDANCE WITH THE REQUIREMENTS OF A.S.T.M. DESIGNATIONS A-123 AND A-153. THE CONDUIT SHALL BE GALVANIZED IN ACCORDANCE WITH SEC. 625.13 AND SHALL BE INCLUDED IN THE UNIT PRICE BID FOR OVERHEAD SIGN SUPPORTS FOR PAYMENT.

*FOUNDATION - THE TOP ELEVATION OF ALL FOUNDATIONS SHALL BE BUILT UP 1'-0" ABOVE THE HIGHWAY CROWN.

**ERECTION - ARMS 20' AND OVER IN LENGTH SHALL BE TRUSS TYPE USING 3" X 3" X 5/16" ANGLES WELDED TO GUSSET PLATES WITH THE INSIDE EDGES OF THE ARMS PARALLEL.

***VALUES OF "B" MAY BE EXCEEDED PROVIDED THE PRODUCT OF ACTUAL SIGN AREA TIMES THE DISTANCE FROM ℄ OF POLE TO ℄ OF SIGN DOES NOT EXCEED THE PRODUCT OF "B" TIMES ½ THE MAX. SIGN AREA.

GENERAL - THE MAX. SIGN AREA ON EACH SIDE OF THE POLE EQUALS ½ THE MAX. TOTAL AREA IN THE CHART.

MATERIAL - STEEL POLE BASES, AND FLANGES SHALL CONFORM TO THE REQUIREMENTS OF ASTM SPECIFICATION A 30 GRADE B. HIGH STRENGTH STEEL BOLTS SHALL CONFORM TO ASTM SPECIFICATION A 193 GRADE B 7. AFTER FABRICATION TAPERED POLES AND ARMS SHALL HAVE A MINIMUM YIELD STRENGTH OF 48,000 PSI.

SOILS - THE FOUNDATION DETAILS SHOWN ARE FOR AVERAGE SOIL CONDITIONS (MEDIUM CLAY, CEMENTED SAND AND GRAVEL, SANDY CLAY, OR STIFF CLAY). FOR POOR SOIL CONDITIONS, INCREASE "D" MIN. BY 50% IN DRY OR WET SAND, 60% IN SILTY CLAY, 100% IN SOFT CLAY, AND FROM 75% TO 150% IN WET SILT, DEPENDING ON QUICKSAND ACTION.

REINFORCING STEEL - REINFORCING STEEL AS SHOWN IN TABLE SHALL BE INSTALLED WHEN "D_T" EXCEEDS THE ANCHOR BOLT LENGTH BY MORE THAN 3 FT. THE COST AND PLACEMENT OF REINFORCING STEEL SHALL BE INCLUDED IN THE UNIT PRICE FOR 816 CONCRETE FOR SIGN SUPPORT FOUNDATIONS.

DESIGN

THE DESIGN OF OVERHEAD SUPPORTS IS IN ACCORDANCE WITH A.A.S.H.O. SPECIFICATION FOR THE DESIGN AND CONSTRUCTION OF STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, ADOPTED JUNE 12, 1961.

DESIGN NO.	POLE SIZE	* * ARM SIZE	DIM. A	DIM. *** B	DIM. "D" MIN.	DIM. F	DIM. P	DIM. S	DIM. T	BOLT CIRCLE	ANCHOR BOLT SIZE	DIM. V	MAX SIGN AREA	REINF. BARS SIZE	REINF. BARS NO.
1	3ga. 18"X14.64"X 24'-0"	7ga., 5.7"X4.02"X 12'-0"	4'	8'	9'	18"	8⅜"	26½"	2"	25½"	2" X 96"	3'-0"	160	¾"	12
2	3ga. 18"X14.64"X24'-0"	7ga., 6.9"X4.66"X 16'-0"	4'	12'	9'	18"	8⅜"	26½"	2"	25½"	2" X 96"	3'-0"	160	¾"	12
3	0ga., 18" X14.64"X 24'-0"	7ga., 7.5"X 5.82"X12'-0"	4'	8'	11'	18"	9⅜"	26½"	2½"	25½"	2¼" X 108"	3'-0"	240	1"	12
4	0ga., 18"X 14.64"X 24'-0"	7ga., 8.3"X 6.06"X 16'-0"	4'	12'	11'	18"	9⅜"	26½"	2½"	25½"	2¼" X108"	3'-0"	240	1"	12
5	0ga., 18"X 14.64"X 24'-0"	7ga., 10"X 7.2 "X 20'-0	4'	16'	11'	18"	9⅜"	26½"	2½"	25½"	2¼" X108"	3'-0"	220	1"	12
6	2 ply 3ga., 18"X 14.5"X 25'-0"	7ga., 10"X 7.48"X 18'-0"	6'	10'	14'	18"	11¼"	26½"	3"	25½"	3" X 144"	3'-0"	360	1⅛"	12
7	2 ply 3ga., 18"X14.5"X 25'-0"	7ga., 11"X 7.92" X 22'-0"	6'	14'	14'	18"	11¼"	26½"	3"	25½"	3" X144"	3'-0"	360	1⅛"	12
8	2 ply 0ga., 18"X 14.5" X 25'-0"	7ga., 12.5"X9.14"X 24'-0"	6'	14'	17'	18"	11¼"	26½"	3"	25½"	3" X168"	3'-0"	480	1¼"	12
9	2 ply 0ga., 18"X 14.5" X 25'-0"	3ga., 12.5"X 8.58"X 28'-0"	6'	18'	17'	18"	11¼"	26½"	3"	25½"	3" X 168"	3'-0"	480	1¼"	12

BUREAU OF TRAFFIC
OHIO DEPARTMENT OF HIGHWAYS

OVERHEAD SIGN SUPPORT

816
No. 1048

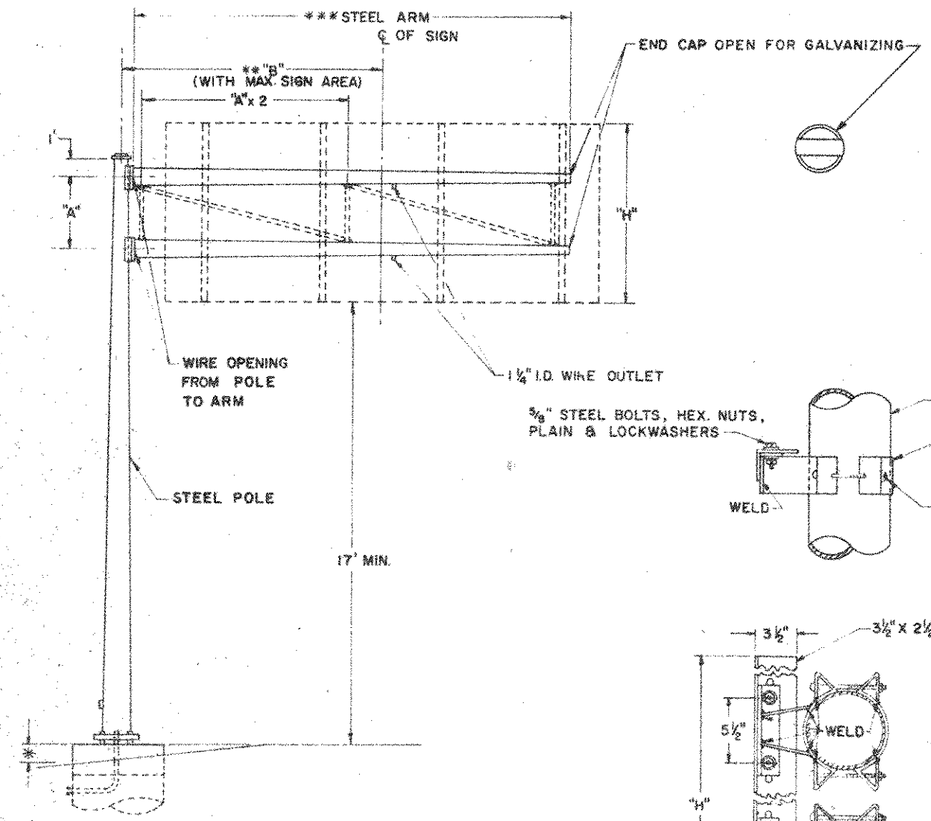
DATE
11-2-
1-15-
3-30-
4-18-
5-19-

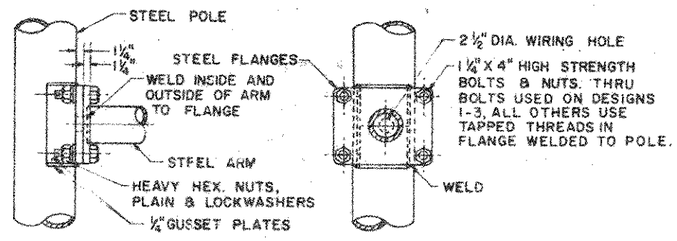
APPROVED _____
ENGINEER OF TRAFFIC

FED. RD DIVISION	STATE	PROJECT		
2	OHIO			

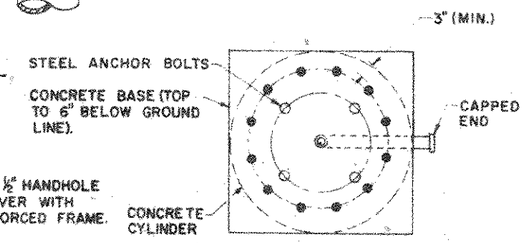
199
332

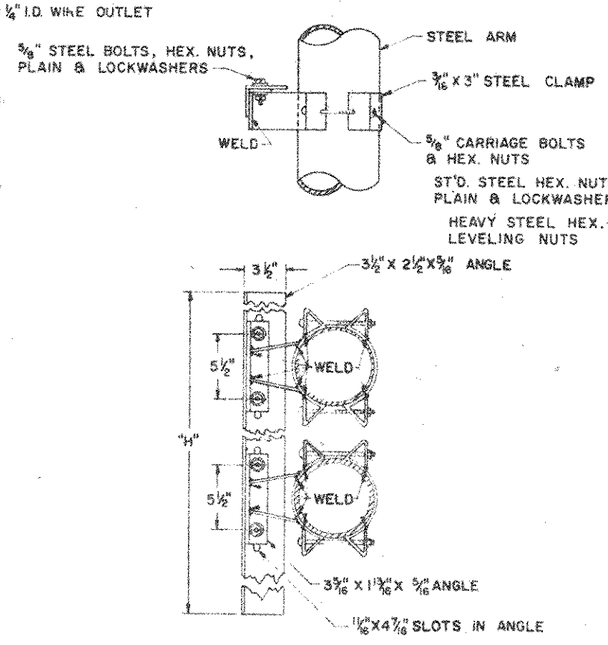
FRANKLIN COUNTY
FRA-270-11.59S

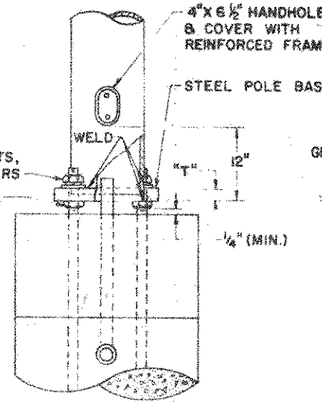


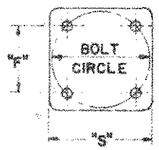


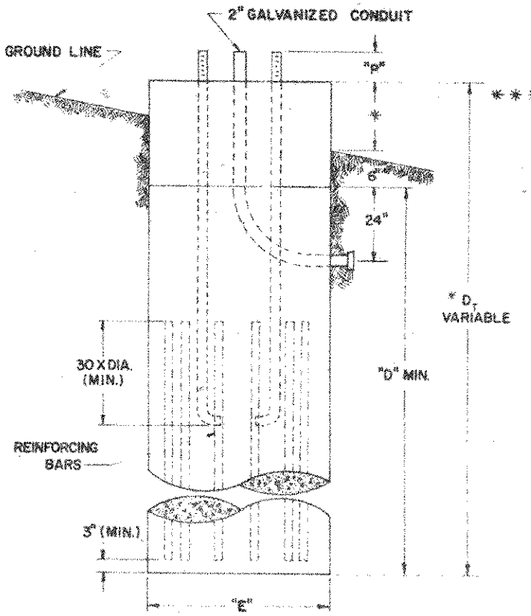
ARM ATTACHMENT











SIGN ATTACHMENT DETAIL

POLE DETAIL

DESIGN NO.	POLE SIZE	*** ARM SIZE	DIM A	DIM ** B	DIM "D" MIN.	DIM F	DIM F	DIM P	DIM S	DIM T	BOLT CIRCLE	ANCHOR BOLT SIZE	MAX SIGN AREA	REINF BARS SIZE	REINF BARS NO.
1	3 Ga, 12" X 8.78" X 23'-0"	7Ga, 6.9" X 4.66" X 16'-0"	4'	12'	9'	3'-0"	11 5/16"	7¾"	17"	2"	16"	1¾" X 90"	80	¾"	12
2	3 Ga, 12" X 8.78" X 23'-0"	7 Ga, 8" X 5.2" X 20'-0"	4'	16'	9'	3'-0"	11 5/16"	7¾"	17"	2"	16"	1¾" X 90"	80	¾"	12
3	3 Ga, 15" X 11.5" X 25'-0"	7 Ga, 8.3" X 6.06" X 16'-0"	4'	12'	11'	3'-0"	15½"	8⅜"	23"	2"	22"	2" X 96"	120	1"	12
4	3 Ga, 16" X 12.5" X 25'-0"	3 Ga, 9.2" X 6.40" X 20'-0"	4'	16'	11'	3'-0"	16 5/16"	8⅜"	24½"	2"	23½"	2" X 96"	120	1"	12
5	0 Ga, 18" X 14.36" X 26'-0"	7 Ga, 11" X 7.92" X 22'-0"	6'	14'	13'	3'-0"	18"	9⅜"	26½"	2½"	25½"	2¼" X 120"	180	1⅛"	12
6	0 Ga, 18" X 14.36" X 26'-0"	7 Ga, 12.5" X 8.86" X 26'-0"	6'	18'	13'	3'-0"	18"	9⅜"	26½"	2½"	25½"	2¼" X 120"	180	1⅛"	12
7	2 PLY 7 Ga, 18" X 14.36" X 26'-0"	7 Ga, 12.5" X 9.14" X 24'-0"	6'	14'	15'	3'-0"	18"	9¾"	26½"	2½"	25½"	2½" X 144"	240	1¼"	12
8	2 PLY ¼", 18" X 14.36" X 26'-0"	3 Ga, 12.5" X 8.58" X 26'-0"	6'	18'	15'	3'-0"	18"	11¼"	26½"	3"	25½"	3" X 144"	240	1¼"	12

NOTES

FABRICATION - ALL PORTIONS OF THE SIGN SUPPORT, INCLUDING SIGN ATTACHMENTS, SHALL BE HOT DIP GALVANIZED IN ACCORDANCE WITH THE REQUIREMENTS OF A.S.T.M. DESIGNATIONS A-123 AND A-153. THE CONDUIT SHALL BE GALVANIZED IN ACCORDANCE WITH SEC. 625.13 AND SHALL BE INCLUDED IN THE UNIT PRICE BID FOR OVERHEAD SIGN SUPPORTS FOR PAYMENT.

* FOUNDATION - THE TOP ELEVATION OF FOUNDATIONS SHALL BE VARIED SO AS TO MAINTAIN A MINIMUM CLEARANCE OF 17' BETWEEN THE BOTTOM OF THE SIGN AND THE HIGHWAY CROWN.

** ERECTION - VALUES OF "B" MAY BE EXCEEDED PROVIDED THE PRODUCT OF ACTUAL SIGN AREA TIMES THE DISTANCE FROM ℄ OF POLE TO ℄ OF SIGN DOES NOT EXCEED THE MAX. SIGN AREA TIMES "B".

*** ARMS 20' LONG OR LONGER ARE TO BE TRUSS TYPE WITH 3" x 3" x ⅜" ANGLES WELDED TO GUSSET PLATES.

MATERIAL - STEEL POLE BASES, FLANGES, AND END CAPS SHALL CONFORM TO THE REQUIREMENTS OF ASTM SPECIFICATION A 30 GRADE B. HIGH STRENGTH STEEL BOLTS SHALL CONFORM TO ASTM SPECIFICATION A 193 GRADE B7. AFTER FABRICATION TAPERED POLES AND ARMS SHALL HAVE A MINIMUM YIELD STRENGTH OF 46,000 PSI.

SOILS - THE FOUNDATION DETAILS SHOWN ARE FOR AVERAGE SOIL CONDITIONS (MEDIUM CLAY, CEMENTED SAND AND GRAVEL, SANDY CLAY, OR STIFF CLAY). FOR POOR SOIL CONDITIONS, INCREASE "D" MIN. BY 50% IN DRY OR WET SAND, 60% IN SILTY CLAY, 100% IN SOFT CLAY, AND FROM 75% TO 150% IN WET SILT, DEPENDING ON QUICKSAND ACTION.

REINFORCING STEEL - REINFORCING STEEL AS SHOWN IN TABLE SHALL BE INSTALLED WHEN "D," EXCEEDS THE ANCHOR BOLT LENGTH BY MORE THAN 3 FT. THE COST AND PLACEMENT OF REINFORCING STEEL SHALL BE INCLUDED IN THE UNIT PRICE FOR ITEM 816 CONCRETE FOR SIGN SUPPORT FOUNDATIONS.

DESIGN

THE DESIGN OF OVERHEAD SUPPORTS IS IN ACCORDANCE WITH A.A.S.H.O. SPECIFICATIONS FOR THE DESIGN AND CONSTRUCTION OF STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, ADOPTED JUNE 12, 1961.

BUREAU OF TRAFFIC
OHIO DEPARTMENT OF HIGHWAYS

OVERHEAD SIGN SUPPORT

816 No. 12.24

DATE 8-18-61, 4-11-62

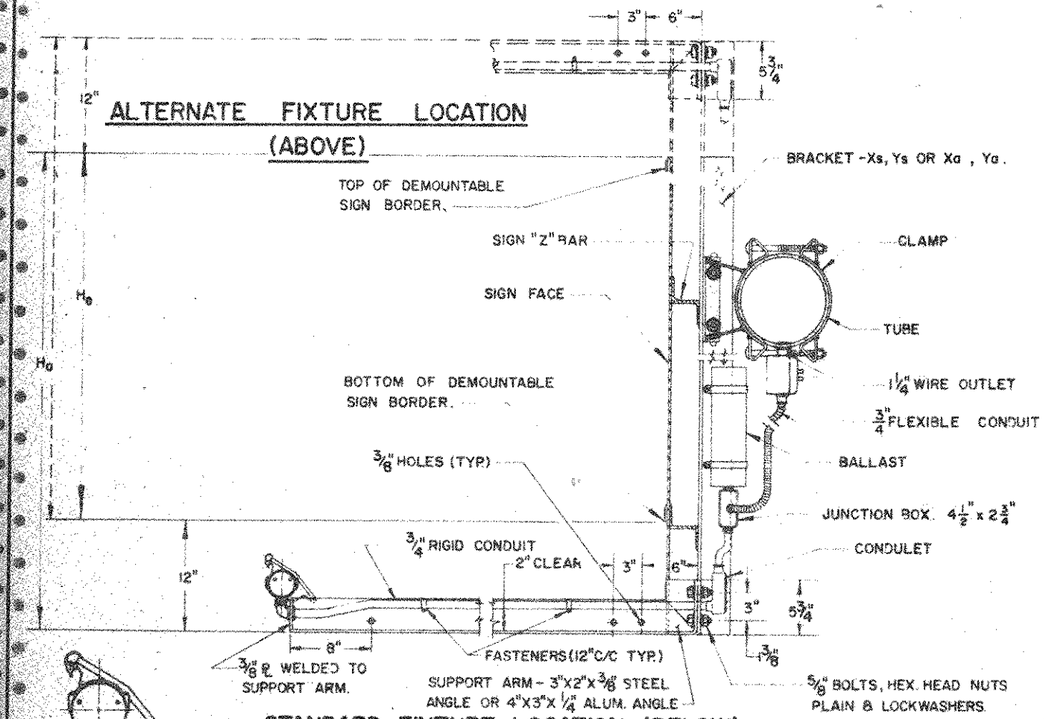
APPROVED Robert E. Turner
ENGINEER OF TRAFFIC

FED. NO. DIVISION	STATE	PROJECT	
2	OHIO		

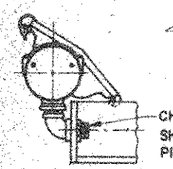
197
332

FRANKLIN COUNTY
FRA-270-11.59S

ALTERNATE FIXTURE LOCATION (ABOVE)



STANDARD FIXTURE LOCATION (BELOW)



FIXTURE CONNECTION WHERE WIRING CONDUIT IS NOT NEEDED.

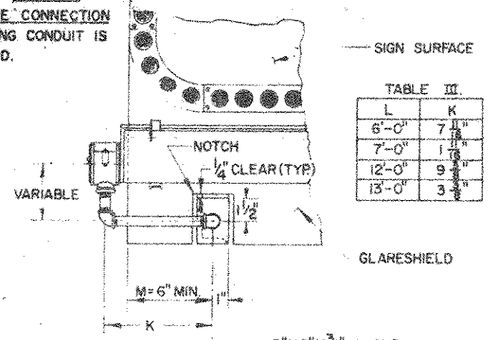


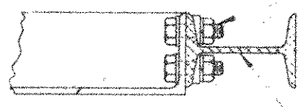
TABLE III.

L	K
6'-0"	7 11/16"
7'-0"	8 11/16"
12'-0"	9 3/16"
13'-0"	3 3/16"

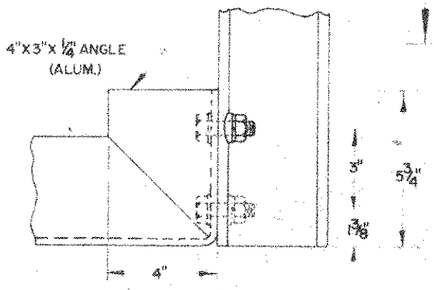
ALTERNATE FIXTURE CONNECTIONS FOR SIGN 6', 7', 12' & 13' IN LENGTH.

DETAIL A.

½" BOLT, STAINLESS STEEL, TAPERED WASHERS & LOCKWASHERS

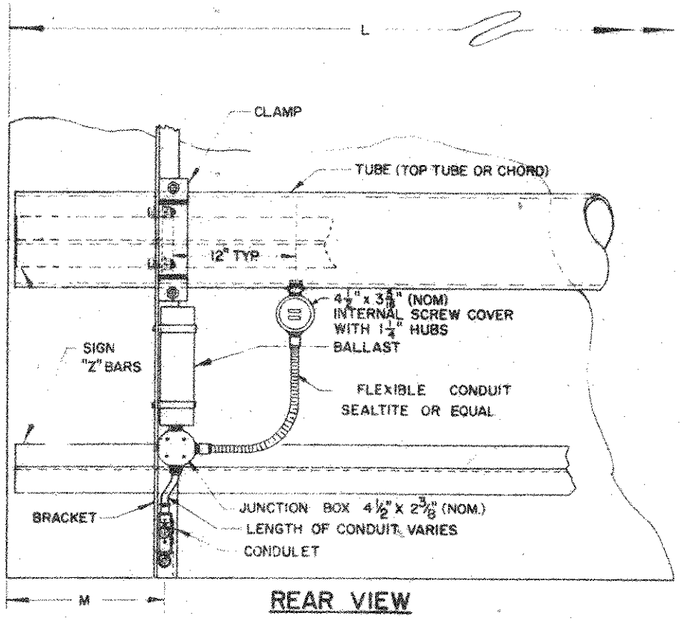


4" I-BEAM 2.64 (ALUM.)



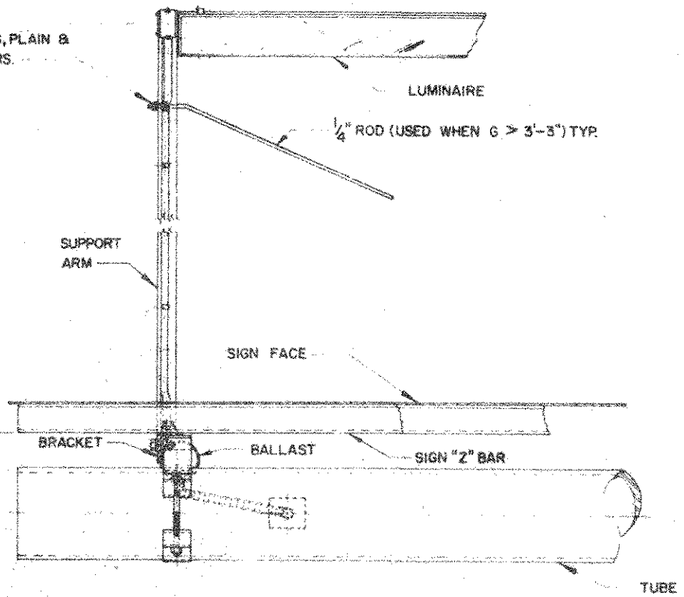
FOR SUPPORTS 7.2-7.6

DETAIL B.



REAR VIEW

¼" HEX. NUTS, PLAIN & LOCKWASHERS.



TOP VIEW

TABLE I.

"L" SIGN LENGTH		FIXTURES	NUMBER OF	"M" EDGE DISTANCE				NO. BALLAST
				A		B		
A	B	75	99	LT.	RT.	LT.	RT.	
6'-0"	7'-0"	1		6"	6"	6"	6"	1
8'-0"	9'-0"	1		10 3/16"	10 1/2"	16 3/16"	16 1/2"	1
10'-0"	11'-0"		1	10 3/16"	10 1/2"	16 3/16"	16 1/2"	1
12'-0"	13'-0"	2		6"	6	6	6	1
14'-0"	15'-0"	2		8 3/16"	8 1/2"	14 3/16"	14 1/2"	1
16'-0"	17'-0"	1	1	8 3/16"	8 1/2"	14 3/16"	14 1/2"	1
18'-0"	19'-0"		2	8 3/16"	8 1/2"	14 3/16"	14 1/2"	1
20'-0"	21'-0"	3		7"	6 7/8"	13	12 7/8"	2
22'-0"	23'-0"	2	1	7"	6 7/8"	13	12 7/8"	2
24'-0"	25'-0"	1	2	7"	6 7/8"	13	12 7/8"	2
26'-0"	27'-0"		3	7"	6 7/8"	13	12 7/8"	2

Sn = Nominal Fixture Length, 72" & 96" respectively.
Sa = Actual Fixture Length, for mounting purposes 75 3/8" and 99 3/8" respectively. (Slight variation for different manufacturers.)
M = Distance from edge of sign to ℄ of notch, min. 6". When the length of the sign minus 1'-0" is less than the sum of the actual fixture lengths, an offset "K" is used. For additional details see detail A on table III.

TABLE II

MAX. BRACKET SPACING FOR EXTERNALLY ILLUMINATED SIGNS

ACTUAL SIGN HEIGHT "Ha"	SUPPORT TYPES 9.12, 11.08, 13.2, 7.2 — SINGLE TUBE DOUBLE TUBE LESS 36" C/C	9.24, 10.48, 12.24, 14.5, 8.8, 7.2 to 7.6 — DOUBLE TUBE C/C 36"-42"	C/C 48"-54"	C/C 60" 72"
	MAXIMUM BRACKET SPACING			
to 5'-0"	6'-4" with X 8'-4" with Y	8'-4" with X	8'-4" with X	8'-4" with X
5'-6" to 8'-0"	6'-4" with Y	4'-2" with X 6'-4" with Y	6'-4" with X 8'-4" with Y	8'-4" with X
8'-6" to 10'-0"	3'-2" with X 4'-2" with Y	6'-4" with Y	6'-4" with Y	6'-4" with Y
10'-6" to 12'-0"	———	4'-2" with Y	6'-4" with Y	6'-4" with Y
12'-6" to 14'-0"	———	3'-2" with Y	3'-2" with Y	4'-2" with Y

Ha = ACTUAL SIGN HEIGHT
He = EFFECTIVE SIGN HEIGHT
BRACKET SIZE: Xs = 3½" X 2½" X 5/16" - L @ 6.1 LB. STEEL; Ys = 4" X 3 1/16" X ¼" - Z @ 8.2 LB. STEEL } 9.12, 10.48, 11.08, 12.24, 14.5 & 13.2
Xa = 3" X 2 1/16" X ¼" - Z @ 2.33 LB. ALUM.; Ya = 4" X 2 3/32" X 3/16" - I @ 2.64 LB. ALUM. } 7.2 Thru 7.6

WHEN MAX. ALLOWABLE SPACING IS LESS THAN ACTUAL FIXTURE LENGTHS, Sa, ADDITIONAL STANDARD BRACKETS MUST BE FURNISHED EQUAL IN HEIGHT TO "Ha".

SUPPORTS 7.2 THROUGH 7.6 SHALL HAVE AN ALUMINUM FIXTURE ARM, 4"X3"X¼" ANGLE. SEE DETAIL B. BOLTS AND ACCESSORIES SHALL BE STAINLESS STEEL.

FABRICATION — ALL STRUCTURAL COMPONENTS SHOWN ON THIS SHEET SHALL CONFORM TO SUPPLEMENT SPECIFICATIONS 816

MATERIALS — THE MATERIALS USED IN THE COMPONENTS SHOWN ON THIS SHEET SHALL BE IN CONFORMANCE WITH THE MATERIALS USED IN THE SIGN SUPPORT.

BUREAU OF TRAFFIC
OHIO DEPARTMENT OF HIGHWAYS

STRUCTURAL DETAILS FOR EXTERNALLY ILLUMINATED SIGNS

EI-1

DATE 10-16-[illegible] 5-8-[illegible] 10-28-[illegible]

APPROVED [signature]
ENGINEER OF TRAFFIC

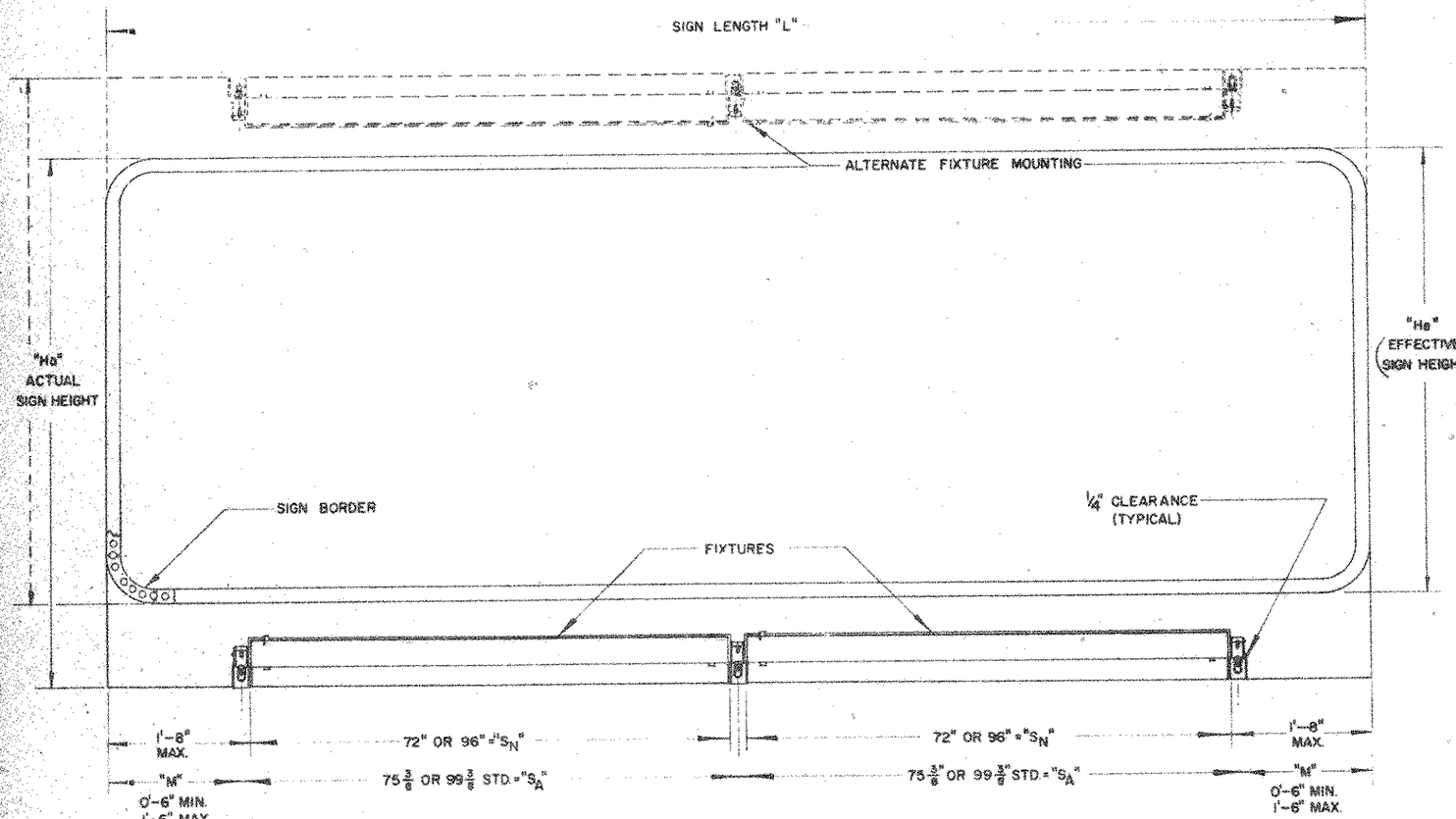
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

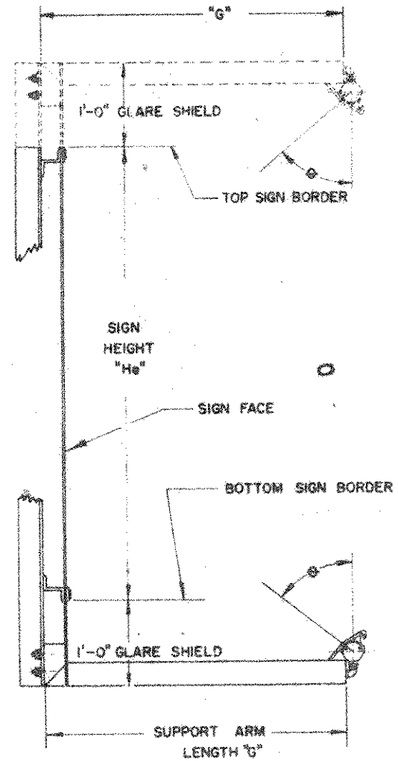
(191) 352

FRANKLIN COUNTY

FRA-270-11.59S

SIGN LIGHTING NOTES





SIGN ILLUMINATION

SIGN ILLUMINATION SHALL BE BY ATTACHED FLUORESCENT FIXTURES AS SHOWN ON ILLUMINATED SIGN DETAIL SHEETS.

LAMPS

LAMPS SHALL BE TYPE F72 OR F96-T12/CW/HO AS MANUFACTURED BY WESTINGHOUSE, GENERAL ELECTRIC OR APPROVED EQUAL FOR SIGNS TO A MAXIMUM HEIGHT OF 6'-6". LAMP TYPE SHALL BE F72 OR F96-T12/CW/SHO AS MANUFACTURED BY WESTINGHOUSE, F72 OR F96-PG17/CW AS MANUFACTURED BY GENERAL ELECTRIC OR APPROVED EQUAL FOR SIGNS THAT ARE 7'-0" OR GREATER IN HEIGHT.

LAMP FIXTURES

LIGHTING FIXTURES SHALL BE CONSTRUCTED OF CORROSION RESISTANT MATERIALS OR WITH HIGH QUALITY CORROSION RESISTANT FINISH. ALL FIXTURES SHALL BE SPECIFICALLY DESIGNED FOR OUTDOOR SIGN LIGHTING SERVICE. MAJOR COMPONENTS SHALL INCLUDE WEATHERPROOF CAST ALUMINUM MOUNTING HUBS DESIGNED TO SECURELY LOCK THE FIXTURES AT ANY ANGLE THROUGH 360 DEGREES. INDICATORS IN 10 DEGREE INCREMENTS SHALL BE STAMPED OR CAST INTO THE HUB TO FACILITATE PROPER AIMING OF THE FIXTURE. FINAL ADJUSTMENT OF FIXTURE SHALL BE DONE AT NIGHT UNDER THE PROJECT ENGINEER'S DIRECTION.

THE BODY DESIGN OF THE FIXTURE SHALL PROVIDE AN ASYMMETRIC SPECULAR ALZAK REFLECTOR TO GIVE A HIGH LEVEL OF UNIFORM ILLUMINATION AND SHALL PROVIDE A WIREWAY FROM END TO END WHEN ADJACENT FIXTURES ARE WIRED TOGETHER THROUGH THE WIREWAY, WIRE BETWEEN FIXTURES SHALL BE ENTIRELY ENCLOSED.

EXTERIOR FINISH OF THE FIXTURE BODY SHALL BE INTERSTATE GREEN COLOR, HEAT RESISTANT BAKED ENAMEL AS # 8980 UNIVERSAL PAINT AND VARNISH INC., OR APPROVED EQUAL. REFLECTOR, LAMP AND SOCKETS SHALL BE PROTECTED BY A HINGED DOOR OF CLEAR ACRYLIC PLASTIC WITH ALUMINUM OR STAINLESS STEEL FRAME AND NEOPRENE GASKETING.

BALLASTS

BALLASTS FOR FIXTURES SHALL BE WEATHER-PROOF OUTDOOR TYPE FOR A 120 VOLT 60 CYCLE SYSTEM AND SHALL PROVIDE LAMP STARTING AT AN AMBIENT TEMPERATURE OF -20°F. BALLASTS SHALL BE MOUNTED ON SIGN BRACKET ONLY. WIRING SHALL BE ACCOMPLISHED IN SUCH A MANNER THAT THE SIGN MAY BE REMOVED WITHOUT DISTURBING THE ELECTRICAL WIRING.

EFFECTIVE SIGN HEIGHT "H"	SUPPORT ARM LENGTH "G"	APPROX. AIMING ANGLE ⊖
3'-0" to 5'-0"	2'-9"	25°
5'-0" to 6'-6"	3'-3"	25°
7'-0" to 10'-0"	4'-3"	17°
10'-6" to 13'-0"	5'-9"	23°

"L" SIGN LENGTH	NO. OF FIXTURES			He=3'-0" to 6'-6" LAMP=T12/cw/ho			He=7'-0" to 13'-0" LAMP=T12/cw/sho		
	72	96		BALLAST NO.	BALLAST TYPE	WATTAGE PER SIGN	BALLAST NO.	BALLAST TYPE	WATTAGE PER SIGN
6'-0" to 7'-0"	1			1	A	190	1	C	250
8'-0" to 9'-0"	1			1	A	190	1	C	250
10'-0" to 11'-0"		1		1	A	190	1	C	250
12'-0" to 13'-0"	2			1	B	250	1	D	425
14'-0" to 15'-0"	2			1	B	250	1	D	425
16'-0" to 17'-0"	1	1		1	B	250	1	D	425
18'-0" to 19'-0"			2	1	B	250	1	D	425
20'-0" to 21'-0"	3			2	A&B	440	2	C&D	675
22'-0" to 23'-0"	2	1		2	A&B	440	2	C&D	675
24'-0" to 25'-0"	1		2	2	A&B	440	2	C&D	675
26'-0" to 27'-0"			3	2	A&B	440	2	C&D	675

BALLASTS

TYPE	MANUFACTURERS		WATTAGE
	G.E.	JEFFERSON	
A	GG 3583	257-151	190
B	GG 3535	257-171	250
C	GG 3585	257-231	250
D	GG 3586	257-181	425

BALLASTS SHALL BE GENERAL ELECTRIC, JEFFERSON AS SPECIFIED ABOVE OR EQUAL.

BUREAU OF TRAFFIC
OHIO DEPARTMENT OF HIGHWAYS

ELECTRICAL DETAILS FOR EXTERNALLY ILLUMINATED SIGNS

EI-2

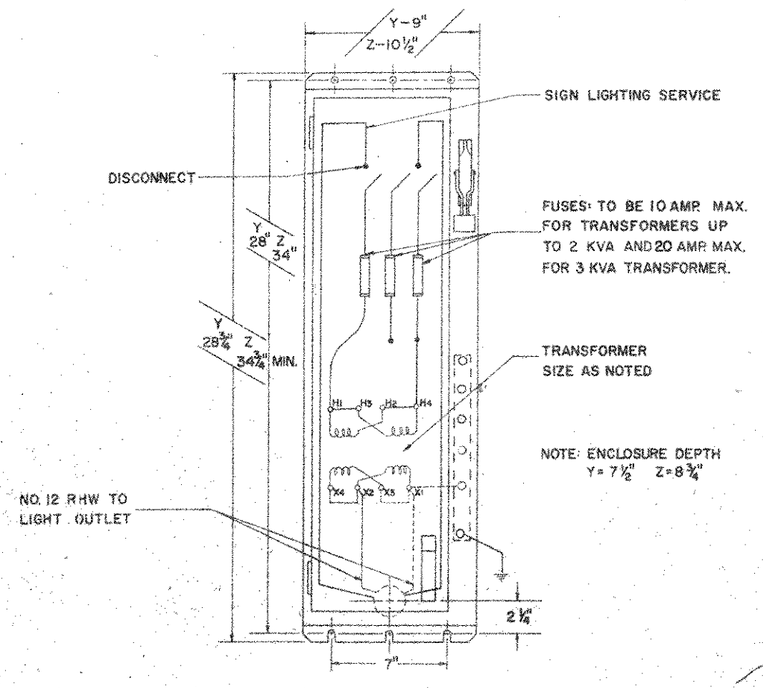
DAT 10-31- 5-6- 10-29

APPROVED Jack C. Gaston
ENGINEER OF TRAFFIC

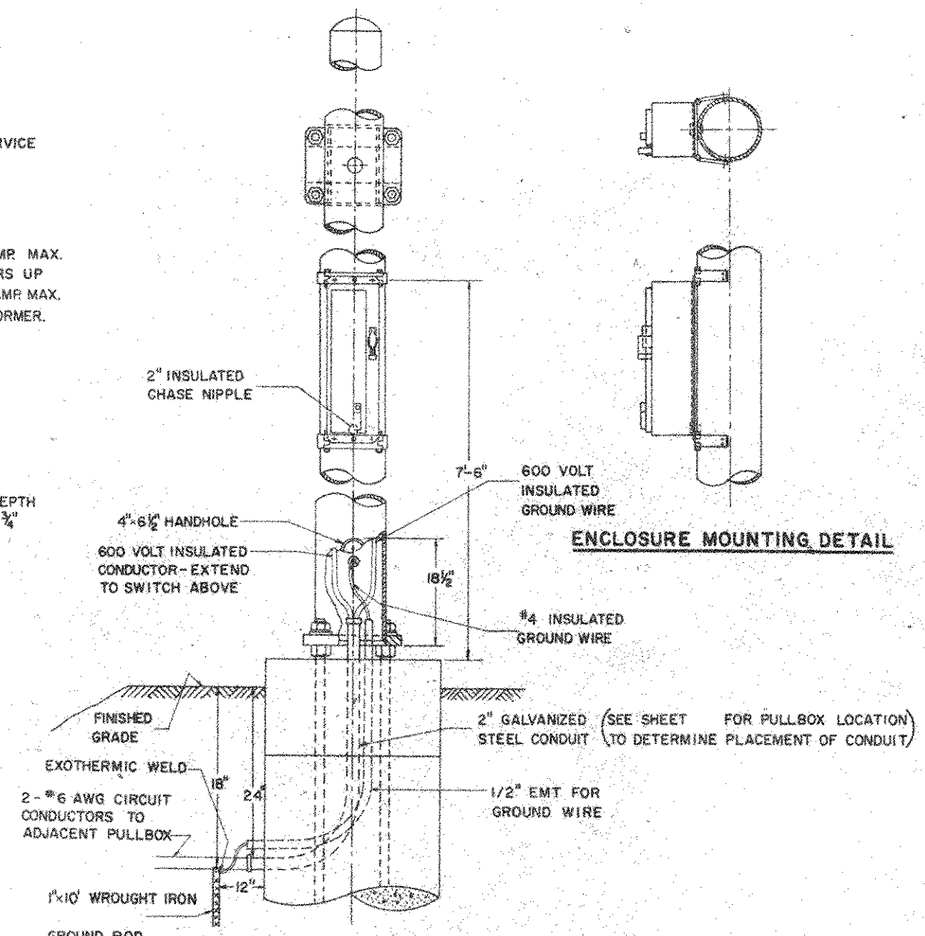
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

192
332

FRANKLIN COUNTY
FRA-270-11.59S

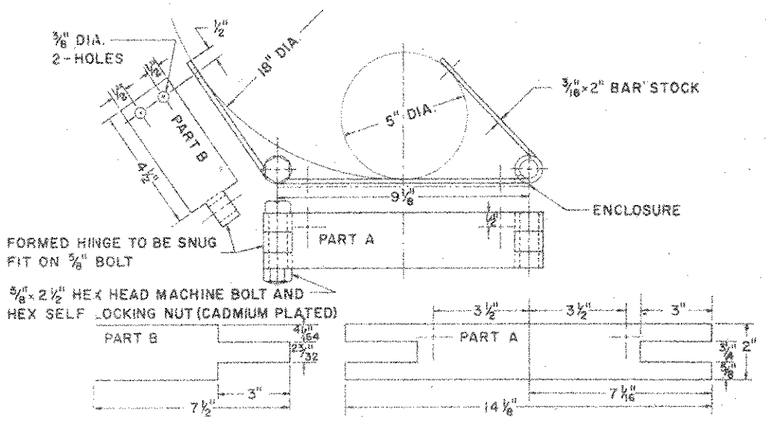


TYPICAL ENCLOSURE DETAIL
240 VOLT SIGN LIGHTING SERVICE

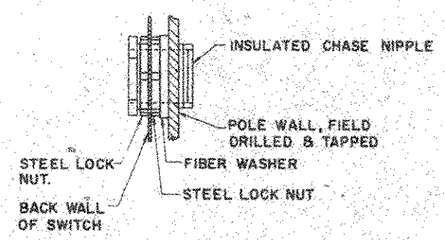


ENCLOSURE MOUNTING DETAIL

SIGN SUPPORT DETAIL FOR ILLUMINATED SIGNS



ENCLOSURE MOUNTING BRACKET



CHASE NIPPLE ASSEMBLY DETAIL

TRANSFORMERS

TYPE	MANUFACTURERS G.E.	MANUFACTURERS JEFFERSON	OUTPUT K.V.A.	SWITCH TRANSFORMER ENCLOSURE
I	9T51Y7	244-241	.25	Y
II	9T51Y8	244-251	.50	Y
III	9T51Y9	244-261	.75	Y
IV	9T51Y10	244-401	1.00	Z
V	9T51Y11	244-411	1.50	Z
VI	9T51Y12	244-421	2.00	Z
VII	9T51Y13	244-431	3.00	Z

NOTES

GENERAL

DETAILS OF THIS SHEET SHALL APPLY TO EACH OVERHEAD SIGN STRUCTURE TO SUPPORT EXTERNALLY ILLUMINATED SIGNS.

SERVICE

ELECTRIC SERVICE SHALL ENTER THROUGH A 2" GALVANIZED RIGID STEEL CONDUIT INSTALLED IN STRUCTURE FOUNDATION AS PER DETAIL. SIGN SERVICE OR CIRCUITRY SHALL BE CONTROLLED AS REQUIRED BY THE SYSTEM DESIGN AT THE PRIMARY SOURCE.

SERVICE CONDUCTORS SHALL BE THE SIZE AND TYPE AS SPECIFIED.

COMBINATION SWITCH AND TRANSFORMER

(TYPE Y OR Z ENCLOSURE REQUIRED AS PER SCHEDULE ON THIS SHEET)

THIS COMBINATION SHALL BE A 30 OR 60 AMPERE 600 VOLT SWITCH WITH A .25 TO 3.0 KVA TRANSFORMER. THE COMBINATION AND ENCLOSURE SHALL BE AS SQUARE D CLASS 9421, COLUMBUS ELECTRIC WORKS CLASS 101, PANALS INCORPORATED--CLASS 9400, OR APPROVED EQUAL.

TRANSFORMER

THE TRANSFORMER SHALL BE DRY TYPE SINGLE PHASE 240/480 VOLT PRIMARY 120/240 VOLT SECONDARY, THE TYPE AND CAPACITY AS SPECIFIED IN DETAILED SCHEDULE ON THIS SHEET.

ENCLOSURE

THE ENCLOSURE SHALL BE NEMA #4 WATER TIGHT .063 GAGE STAINLESS STEEL ASTA 302-303. A DISCONNECT HANDLE SHALL BE FLANGE MOUNTED AND CAPABLE OF BEING LOCKED IN EITHER POSITION. THE ENCLOSURE SHALL BE EQUIPPED WITH A DOOR LOCKING MECHANISM WITH A DEFEATER THAT NECESSITATES TWO HANDS TO OPERATE MECHANISM WITH THE SWITCH IN OFF POSITION. SPACE FOR A 2" INSULATED CHASE NIPPLE SHALL BE PROVIDED APPROXIMATELY 2¼" ABOVE THE CENTER LINE OF THE LOWER MOUNTING SLOT. THIS ENCLOSURE AND STRUCTURE SHALL BE FIELD DRILLED AND TAPPED FOR THE REQUIRED NIPPLE AS SHOWN ON THE DETAIL ON THIS SHEET.

THIS ENCLOSURE SHALL BE FLANGE MOUNTED ON BRACKETS WITH ⅝"-18x¾" HEX HEAD CADMIUM PLATED MACHINE BOLTS. ENCLOSURES SHALL BE TYPE Y OR Z AS SPECIFIED AND DIMENSIONED ON THIS SHEET.

ENCLOSURE MOUNTING BRACKET

THE ENCLOSURE MOUNTING BRACKET SHALL BE FABRICATED THEN GALVANIZED BEFORE ASSEMBLY. THE BRACKET SHALL BE FIELD MOUNTED WITH ⅜" HEX HEAD SELF TAPPING CADMIUM PLATED SCREWS. THE SIGN SUPPORT SHALL BE FIELD DRILLED, AS PER DETAIL.

WIRE AND CABLE

ALL WIRE AND CABLE UP TO AND INCLUDING #4 SHALL COMPLY WITH FAA TYPE A SPECIFICATIONS. #2 OR LARGER WIRE OR CABLE SHALL BE G.E. 58006 OR ANACONDA AP-1071, OR EQUAL. ALL WIRE AND CABLE SHALL BE 600 VOLT.

GROUNDING

EACH SIGN SUPPORT OR STRUCTURE SHALL BE GROUNDED WITH A #4 RUBBER INSULATION AND NEOPRENE JACKETED CONDUCTOR. THE GROUNDING CONDUCTOR SHALL BE CONNECTED TO THE SWITCH THEN TO THE COMPRESSION CONNECTOR IN THE SIGN SUPPORT THEN TO A 1"x10' WROUGHT IRON GROUND ROD. GROUND CONDUCTOR SHALL BE EXOTHERMICALLY WELDED TO GROUND ROD AND THEN TAPED WITH PLASTIC ELECTRICAL TAPE AT EACH EXPOSED PORTION OF CONDUCTOR. THE WELDED CONNECTION AND TAPED PORTION SHALL BE PAINTED 2 COATS OF INSULATING ENAMEL.

BUREAU OF TRAFFIC
OHIO DEPARTMENT OF HIGHWAYS

ELECTRICAL SIGN SERVICE DETAILS 240 VOLT SYSTEM

ES-3A MODIFIED

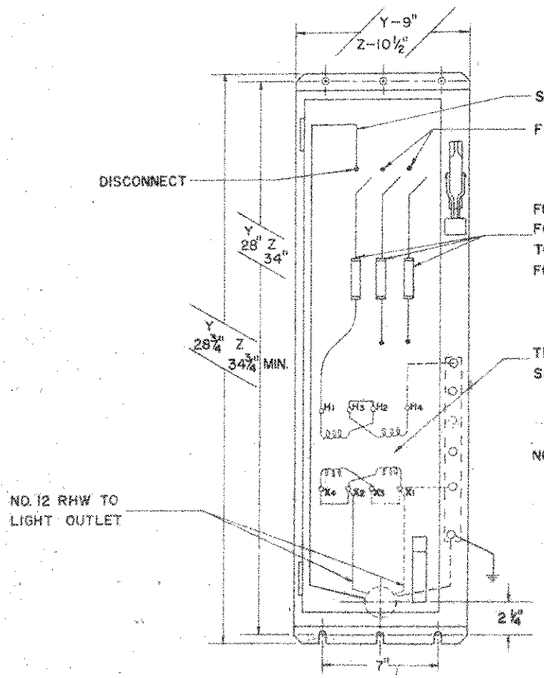
DATE 6-18-64 12-20-65

APPROVED _____
ENGINEER OF TRAFFIC

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

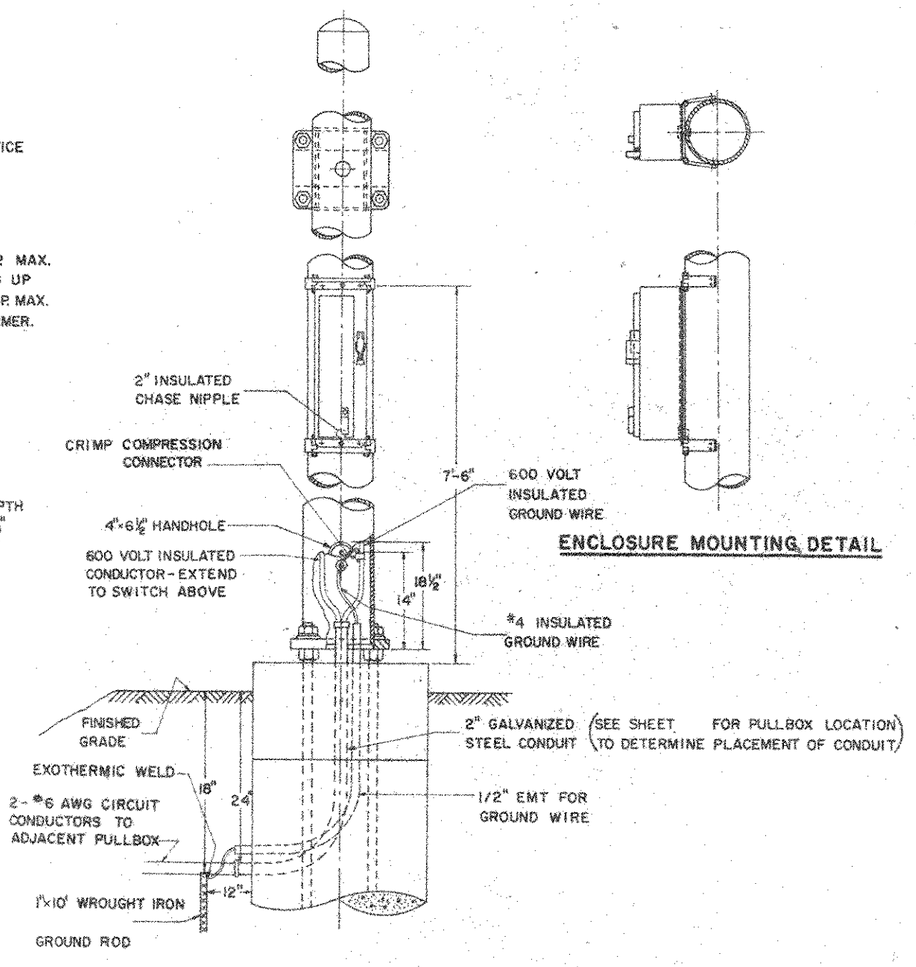
193
332

FRANKLIN COUNTY
FRA-270-11.59S



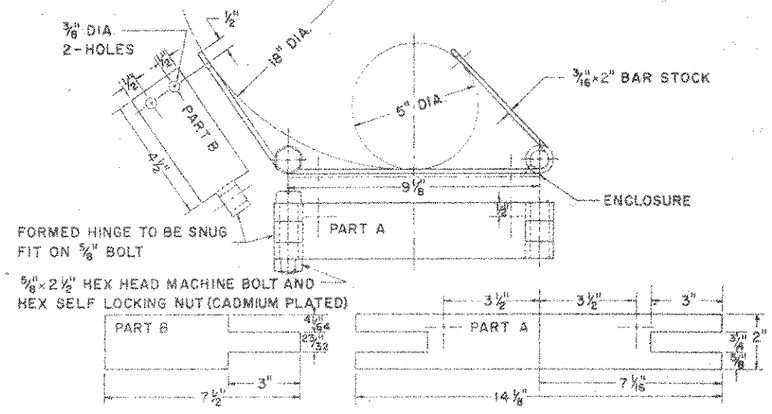
TYPICAL ENCLOSURE DETAIL

480 VOLT SIGN LIGHTING SERVICE

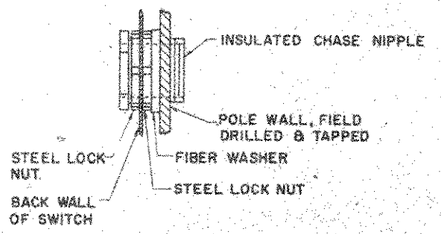


ENCLOSURE MOUNTING DETAIL

SIGN SUPPORT DETAIL FOR ILLUMINATED SIGNS



ENCLOSURE MOUNTING BRACKET



CHASE NIPPLE ASSEMBLY DETAIL

NOTES

GENERAL

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SERVICE CONDUCTORS SHALL BE THE SIZE AND TYPE AS SPECIFIED.

COMBINATION SWITCH AND TRANSFORMER

(TYPE Y OR Z ENCLOSURE REQUIRED AS PER SCHEDULE ON THIS SHEET)

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TRANSFORMERS

TYPE	MANUFACTURERS G.E.	MANUFACTURERS JEFFERSON	OUTPUT K.V.A.	SWITCH TRANSFORMER ENCLOSURE
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II	9T51Y8	244-231	.50	Y
III	9T51Y9	244-261	.75	Y
IV	9T51Y10	244-401	1.00	Z
V	9T51Y11	244-411	1.50	Z
VI	9T51Y12	244-421	2.00	Z
VII	9T51Y13	244-431	3.00	Z

BUREAU OF TRAFFIC
OHIO DEPARTMENT OF HIGHWAYS

ELECTRICAL SIGN SERVICE DETAILS 480 VOLT SYSTEM

ES-3A MODIFIED

DATE 6-18-6 12-20-6

APPROVED _____ ENGINEER OF TRAFFIC

LIGHTING PLAN

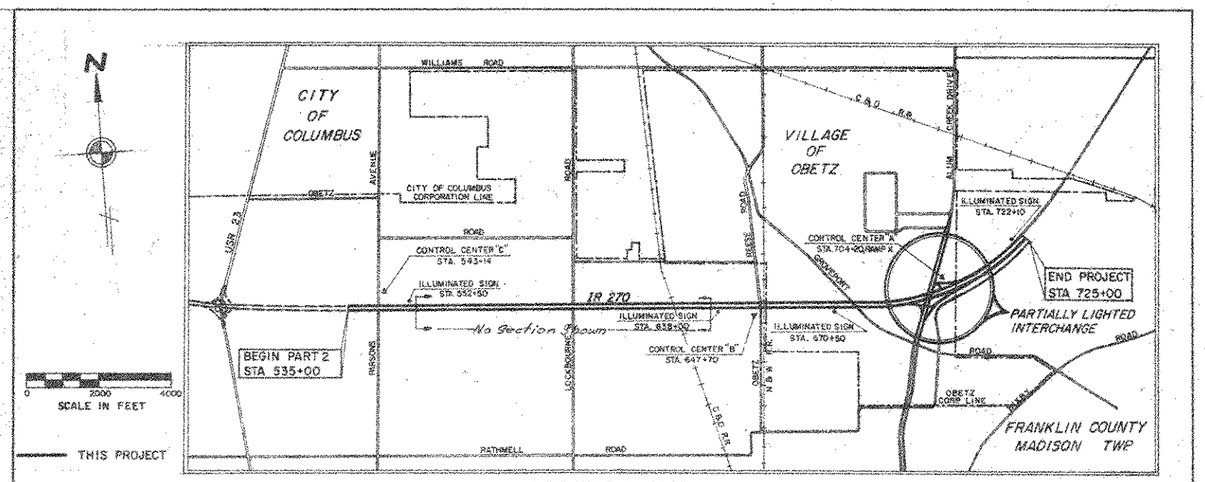
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

194/332

FRANKLIN COUNTY
FRA-270-11.595

GENERAL LIGHTING NOTES

1. All methods, materials, and workmanship shall conform to Items 713 & 625 and other applicable sections of the 1965 Construction and Material Specifications.
2. Items on structures will be bid and paid for under the associated structure.
3. Conduit Markers shall be installed over each conduit that does not terminate in a pullbox.
4. Illuminated Signs - Under Roadway Items the contractor shall install a pullbox adjacent to each sign and provide connector kits. Extension and connection of circuits into the sign structure will be done under the Signing Items.
5. Anchor Bolts - Four high grade steel anchor bolts fitted with hex nuts shall be furnished for each standard. Each anchor bolt shall have an L bend at the bottom end and be threaded at the top end. Threaded ends and nuts shall be galvanized in accordance with ASTM A-153 with galvanizing extending 1" to 4" beyond threads. Anchor bolts shall conform to ASTM A-107, Grade 1038 Special Quality, and shall have a minimum yield strength of 46,000 psi. Bolt stock shall conform with ASTM Spec. A-29 and nominal bar size shall equal nominal bolt size.
6. Duct-Cable shall be as per 625.15 except minimum size Duct shall be 1½" I.D. Duct-Cable shall be General Electric Co. No. SI-58073, Phelps Dodge, Rome Cable Co. Simplex, or approved equal.



LOCATION MAP

LIGHTING DESIGN DATA

ROADWAY WIDTH	36'	24'	16' RAMPS
Roadway Class	Interchange		
Traffic Class	Heavy - Total Ramp ADT for 1967 = 16,317 ADT for 1985 = 36,329		
Pedestrian Class	None		
Intensity (Average)	1.2 Footcandles (Initial)		
Lamp Designation	H-33-1CD		
Lamp Design Output	19,200 Lumen Corrected to Horizontal		
Photometric Data Curves	LM-*E-359-64	LM-*E-359-64	LM-*E-359-95
Mounting Height	32.5'		
Luminaire Overhang	3' Nominal	3' Nominal	2' Nominal
Design Spacing			
Luminaire Distribution	III	III	II
Luminaire Ballast	400W Regulated Output		
Maximum Voltage Drop	10%		
Circuit Loading	55 Amps Maximum		
System Type and Power	Multiple Type for 480 Volt, 1Ø Grounded Service		

GENERAL SUMMARY - ITEM 625 - LIGHTING

BRIDGES	ITEM	ROADWAY "IG" Section	ROADWAY State Participation	ROADWAY L Section	ROADWAY TOTAL	UNIT	DESCRIPTION
							32'6 Light Pole with 15'0" Bracket Design 11A15B32.5,
	625		1	24	25	Ea.	Circular Shaft.
							32'6 Light Pole with 10'0" Bracket Design 11A10B32.5.
	625		4	5	9	Ea.	Circular Shaft.
	625			1	1	Ea.	15'0" Pole with No Bracket Arm Design 11A0B15.
	625		5	30	35	Ea.	Light Pole Foundation
	625		4	5	9	Ea.	Luminaire Type II - 400 Watt
	625		1	24	25	Ea.	Luminaire Type III - 400 Watt
	625			1	1	Ea.	Luminaire Post Mounted - 250 Watt
	625		5	29	34	Ea.	Mercury Vapor Lamp - 400 Watt (H-33-1CD)
	625			1	1	Ea.	Mercury Vapor Lamp - 250 Watt (H-37-5KB)
	625		5	29	34	Ea.	Ground Rod & Wire Connection
	625	4	1	32	37	Ea.	Pullbox - Round 18" I.D., Type II Cover
	625			7	7	Ea.	Markers
	625	1160	720	5736	7616	L.F.	Normal Trench, 24" deep.
	625			4809	4809	L.F.	Alternate Trench, 4'6" deep.
789	625					L.F.	Conduit 2" Rigid Galvanized Steel (Structure Only)
	625			961	961	L.F.	Conduit 3" Rigid Galvanized Wrought Iron or Alloy Steel
	625			1850	1850	L.F.	Circuit Cable - 2½*6, 600 Volt.
	625		480	2970	3450	L.F.	- Pole & Bracket Cable - 1/c No. 10 Type THHN.
	625	1160	720	10925	12805	L.F.	Duct-Cable Preassembled 2-1/c *6 AWG Conductors
	625	8		48	56	Ea.	Connector Kit Type I
	625		5	29	34	Ea.	Connector Kit Type II
	625		5	29	34	Ea.	Connector Kit Type III
	625		2	26	28	Ea.	Connector Kit Type IV
	625			1	1	Ea.	Control Center "A" & Transformer Pole Circuits
	625	1		1	2	Ea.	Control Center "B" or "C" w/service Pole
2	625					Ea.	Bridge Structure Grounding System
4	625					Set	Light Pole Anchor Bolts for Structures (4 ea. Set)
	625		Lump		Lump	Lump	Circuit & Lighting Standard Identification
							ALTERNATE BID ITEMS
	625		1	24	25	Ea.	32'6 Light Pole w/15' Bracket Design 11A15B32.5 other than Circular Shaft
	625		4	5	9	Ea.	32'6 Light Pole w/10' Bracket Design 11A10B32.5 other than Circular Shaft

FED. NO. DIVISION	STATE	PROJECT	
2	OHIO		

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FRANKLIN COUNTY
FRA 270-11.59S

LIGHTING PLAN

SCALE 0 50 100 200

VILLAGE OF OBETZ

See Sheet 196 for Sta. 686+00 Circuit Continuation

Match Line Sta. 686+00

COUNTY DITCH

DITCH

P.B. & 3" Conduit 688+30, 183 L.F. 2-#6 #8

P.B. 692+25 Ckt B, 2-#6

694+05 15-III-B19

697+85 B8

696+95 15-III-B9

Future 80+90

Future 52+85

Ckt B, 2-#6

RAMP W

690 I R 270

695

700

705

710

715

Ckt B, 2-#6

P.B. & 3" Conduit 688+34, 146 L.F. 2-#6 #8

687+12 15-III-B12

688+53 15-III-B10

689+12 10-II-B11

Overhead Sign (304) NY 688+04

Future 48+30

Future 46+70

3" Conduit 695+25, 351 L.F.

2" Type I Conduit in Bridge Curb

Future 49+85

Future 47+75

45+15 15-III-B24

694+50 10-II-B2

42+98 15-III-B15

P.B. & 3" Conduit 43+75, 1052 L.F.

P.B. & 3" Conduit 694+30, 41 L.F.

46+00 15-III-B14

44+10 15-III-B22

696+80 15-III-B13

RAMP V

Ckt B, 2-#6

Overhead Sign (307) Rel. Alum Cr. Dr. 42+77

RELOC. ALUM CREEK DRIVE

P.B. 42+87

End L/A 37+67

691+22 15-III-B16

P.B. & 3" Conduit 693+22, 351 L.F.

SERVICE ROAD

Begin Work 1+25

RAMP W 34+00

35+85 15-III-B18 End Ckt B

RATHMILL ROAD

ALUM CREEK DRIVE

STEGNER ROAD

58+85 15-III-A12 End Ckt A

Ckt A, 2-#6

Future 56+61

Future 55+05

3" Conduit 713+20, 37 L.F.

RAMP X

57+60 15-III-A12

End Ckt A (2-#6) 71+92 15-III-A6

Future 51+95

698+95 15-III-B7

P.B. & 3" Conduit, 704+52, 35 L.F. 2-#6

100% State, 150' Spacing.

708+50 10-II-A8

707+00 10-II-A9

705+50 10-II-A10

704+30 10-II-A11

P.B. & 3" Conduit 704+65, 187 L.F. 2-#6

3" Conduit 703+50, 39 L.F.

707+57 15-III-B4

Future 708+97

710+47 15-III-B5

Future 711+97

End Ckt B 713+47 15-III-B6

Ckt B, 2-#6

SAMSON FRONTAGE ROAD

Match Line "A" 716+50

718 720 722

IR 270

28 30 32 34

Overhead Sign (306) NY 722+07

721+12 15-III-B24

P.B. 721+97

End Ckt B

P.B. 719+25 Ckt B, 2-#6

Match Line "A" 716+50

Match Line "B" 61+00

P.B. & 3" Conduit 60+00, 109 L.F.

59+90 15-II-A1

P.B. 704+90 Ckt A, 2-#6

Exist. 4

CONTROL CENTER "X" 84' L.T. Sta. 704+06, RAMP X

704+47 15-III-A4

P.B. & 3" Conduit 704+90, Ramp X 65 L.F. 4-#6

712+90 15-III-A7

Overhead Sign (305) NY 713+47

712+64 10-II-B1

713+00 15-III-B3

714+54 15-III-B2

P.B. & 3" Conduit 713+87, 39 L.F. 2-#6

Match Line "A" 716+50

FRANKLIN COUNTY
MADISON TOWNSHIP

HOWARD ROAD

LINDSAY ROAD

End L/A 68+25

Overhead Sign (309) Rel. Alum Cr. Dr. 62+00

P.B. 61+90

End Ckt A 67+90 15-III-A3

Ckt A, 2-#6

RELOC. ALUM CREEK DRIVE

ALUM CREEK DRIVE

Match Line "B" 61+00

End Work 74+13

LIGHTING KEY

- Station B-8 — Post Mounted Underpass Lighting Unit
- Station 15-III-A1 — Ground Mounted Lighting Unit, 15' Bracket Arm, ASA/IES Type III Distribution, Circuit A, Pole No. in Circuit
- Future Location Roadway Light Pole.
- Provisions for Future Light Pole on Structure.
- Pullbox, 18" I.D. Round.
- Marker.
- Preassembled Direct Burial Duct-Cable.
- 3" Rigid Metal Conduit Type II or III, unless noted.
- Type A Trench - 2'-0" deep.
- Type B Trench - 4'-6" deep.
- Control Center.
- (XX) Control No. of Directional or Guide Sign.
- 100% State Participation.

LIGHTING PL

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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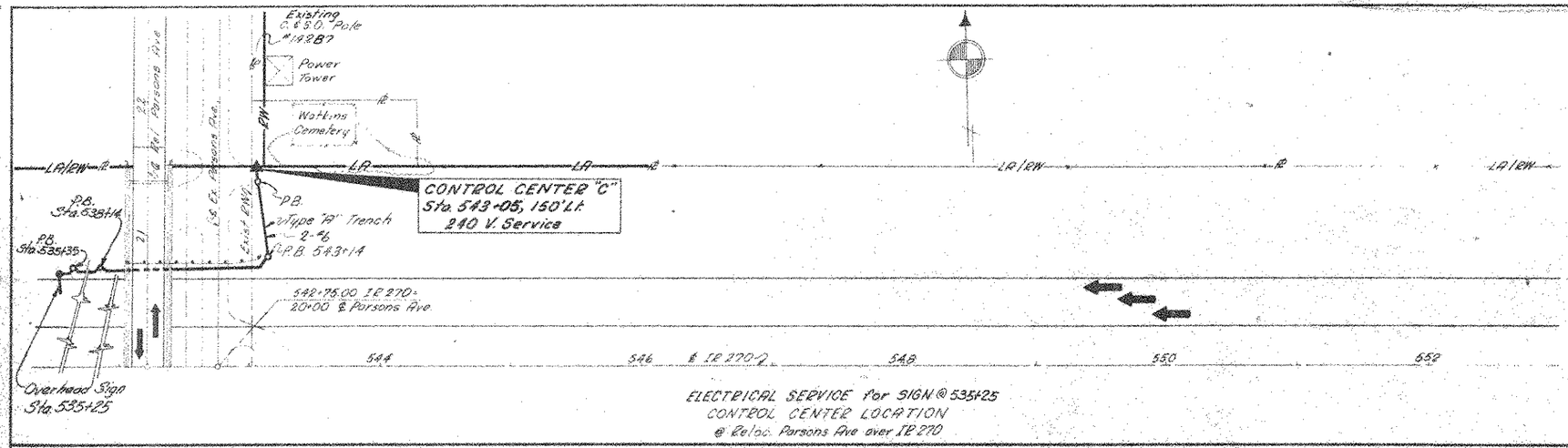
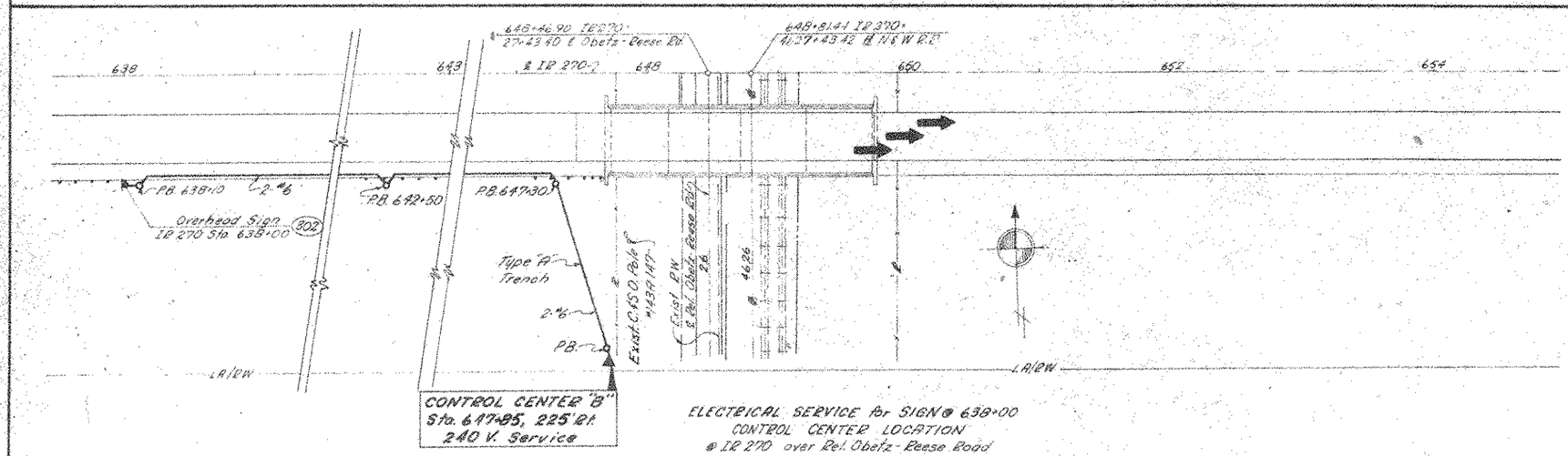
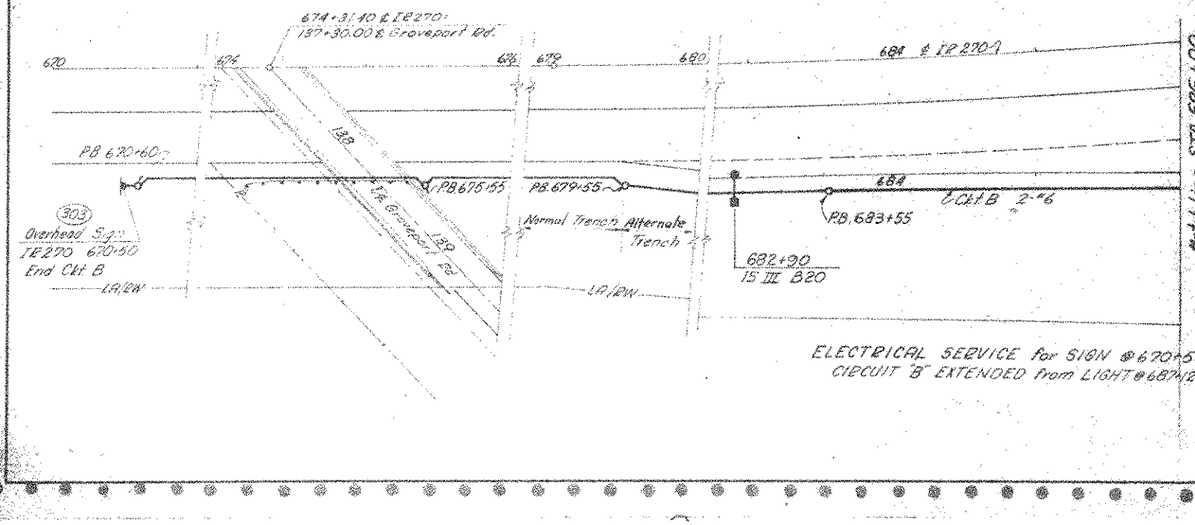
FRA-270-11.59S



ELECTRICAL SERVICE for SIGN @ 535+25
CONTROL CENTER LOCATION
@ Reloc. Parsons Ave over IR 270

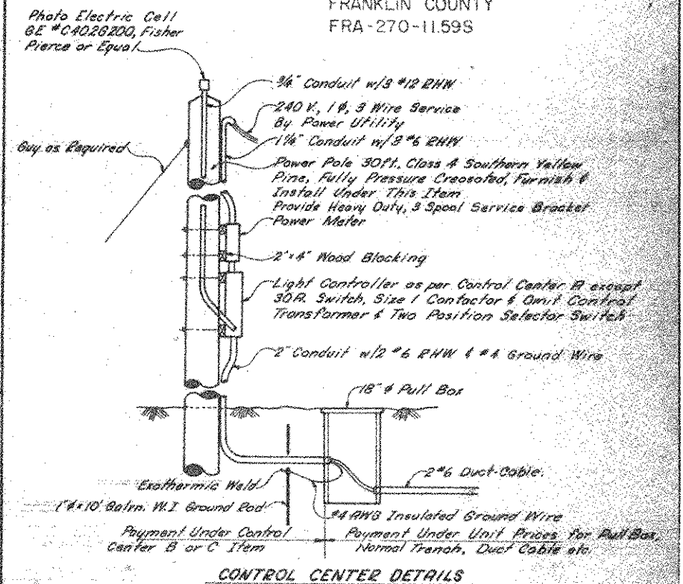


ELECTRICAL SERVICE for SIGN @ 638+00
CONTROL CENTER LOCATION
@ IR 270 over Rel. Obetz-Reese Road

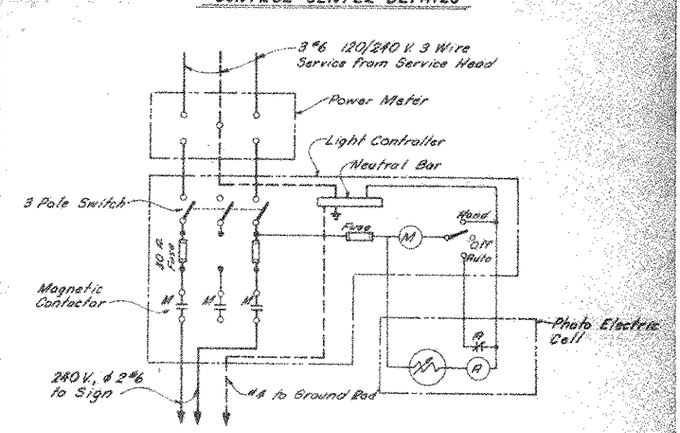


See Lighting Plan Sheet 195
for Circuit Continuation.

ELECTRICAL SERVICE for SIGN @ 670+50
CIRCUIT "B" EXTENDED from LIGHT @ 682+12



CONTROL CENTER DETAILS



CONNECTION DIAGRAM

NOTE:
Power Utility to land 240 Volt, ϕ service on pole & connect to service head. Under this item, furnish & install Control Center complete; including pole, meter installation, light controller, photo electric cell, ground rod, conduit, & conductors.

CONTROL CENTER "B" or "C"
240 V., 1 ϕ SERVICE

FED. RD. DIVISION	STATE	PROJECT		
2	OHIO			

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FRANKLIN COUNTY

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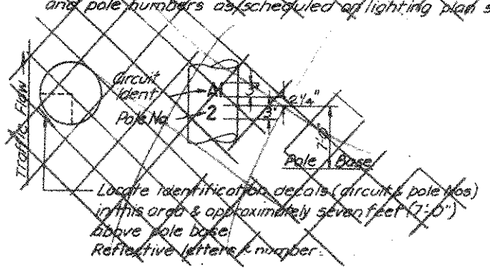
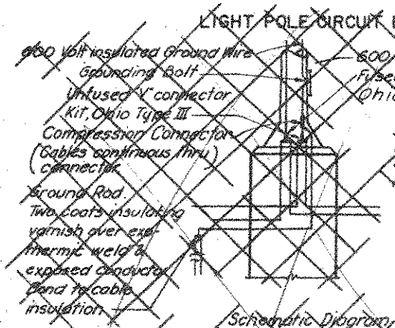
Decals shall be adhesive type with silver white reflective characters on a reflective green background with circuit and pole numbers as scheduled on lighting plan sheets



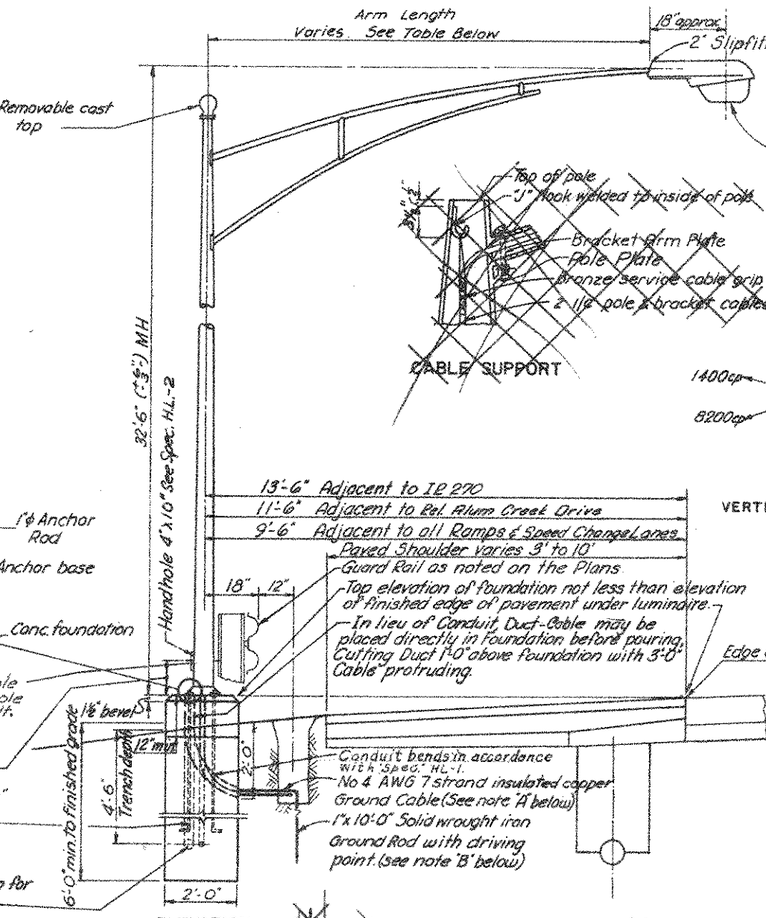
Locate identification decals (circuit & pole nos) in this area & approximately seven feet (7'-0") above pole base. Reflective letters & number.

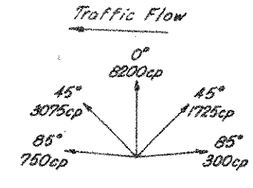
LIGHT POLE CIRCUIT IDENTIFICATION



Schematic Diagram for 480 Volt Multiple Circuit

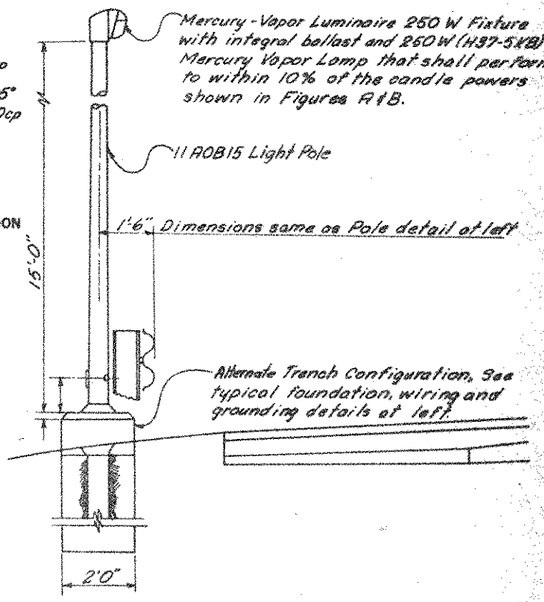
ELECTRICAL WIRING AT LIGHT POLE



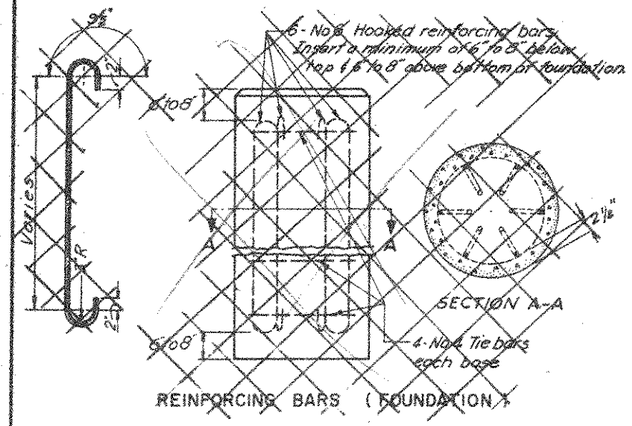


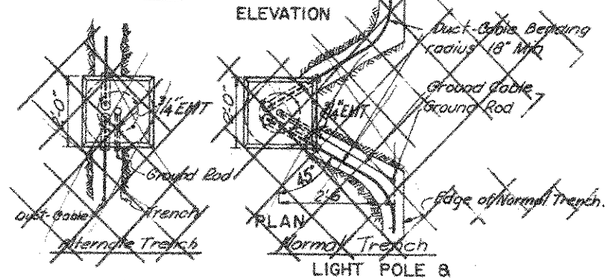
VERTICAL DISTRIBUTION
0° LATERAL
FIGURE A

LATERAL DISTRIBUTION
70° CONE
FIGURE B



POLE MOUNTED LUMINAIRE
(LOCATED IN UNDERPASS)



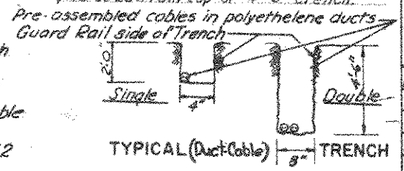


LIGHT POLE & FOUNDATION DETAILS

NOTE 'A': No. 4 A.W.G. 7 Strand insulated ground cable. Exothermic weld cable to ground rod, run through ¾" EMT conduit and connect to ground hole in pole with H.D. galvanized steel bolt & washer.

NOTE 'B': 1"x10'-0" solid wrought iron ground rod in cable trench outside light pole foundation, install vertically. If a ground resistance of 25 ohms maximum is not obtained either additional rods shall be driven 10'-0" apart (Maximum of 5 additional rods) or sectional rods may be employed to obtain the specified low resistance ground at greater depth. Rods shall be connected in parallel to grounding nut. Top of ground rod to be within 4" of bottom of 2'-0" trench, & 18" to 20" from top of 4'-6" trench.

NOTE: Keep Duct-Cable on side of trench away from Guard Rail and in trench as straight as possible. Increase width of trench to accommodate extra Duct-Cable as required.
Back fill in accordance with 625.12



MECHANICAL PROPERTIES FOR 11GA ANCHOR BASE LIGHT STANDARDS

Design No.	Pole Size (11Ga)	Anchor Bolt Dia. Bolt Circle	Anchor Bolt Proj'n above Found'n	Max. Arm Length	Mounting Height Above Pav't.	Elastic Def'l. Rate In. Per 100 lb.	At ⅔ of Yield Stress: Load 18" Down from top Lb.	At ⅔ of Yield Stress: Total Def'l Inches	At ⅔ of Yield Stress: Perm. Set Inches	At Yield Stress: Load 18" Down from top Lb.	At Yield Stress: Total Def'l Inches	At Yield Stress: Perm. Set Inches
11A10B30	8.0"x.422"x27'-0"	11.0"	2 5/8"	12'-0"	30'-0"	2.37	568	13.96	.50	852	22.71	2.52
11A10B32.5	8.0"x.387"x29'-6"	11.0"	2 5/8"	10'-0"	32'-6"	3.32	517	17.66	.50	776	28.84	3.08
11A15B32.5	9.0"x.48"x29'-6"	12.5"	3"	15'-0"	32'-6"	2.16	659	14.73	.50	989	24.00	2.64
11A0B15	6.5"x.44"x15'-0"	9.5"	2 1/8"	None	15'-0"	0.56	699	4.41	.50	1049	6.96	1.09

LIGHTING DETAILS - DISTRIBUTION

FRANKLIN COUNTY

F R A - 270 - 11.59S

*BRIDGE LIGHT POLE REINFORCING STEEL & ESTIMATED QUANTITIES

TOTAL per Light Pole

511 Conc. C.Y.	509 Rein. Steel Mark	No.	Length Ft.	Wt. lb.
	L501	4	7'-7"	32
	L502	4	2'-9"	11
0.50				2

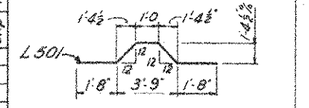
FRA-270-1465S

511 Conc. C.Y.	509 No. Units	509 Wt. lb.
	16	128
	16	44
2		

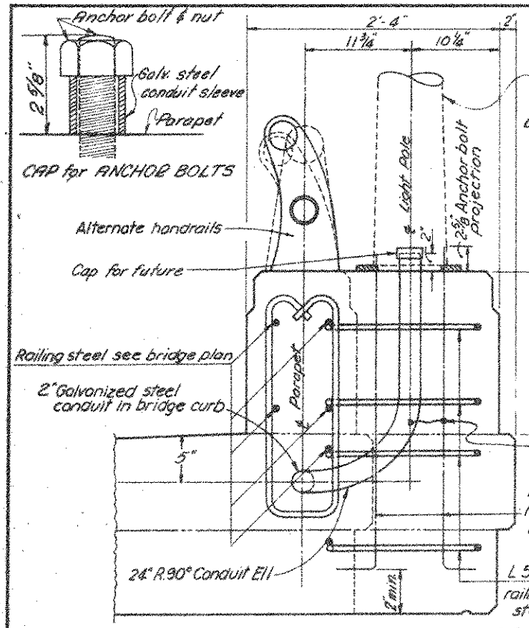
TOTAL to BRIDGE SUMMARY

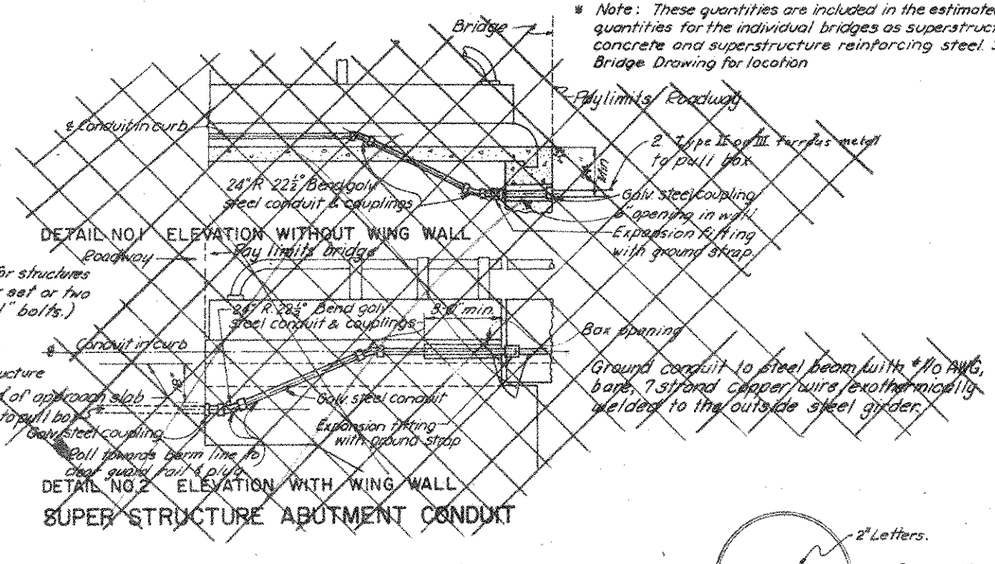
511 Conc. C.Y.	509 Rein. Steel Mark	No.	Length Ft.	Wt. lb.	Ship
	L501	16	7'-7"	128	
	L502	16	2'-9"	44	
2					

BENDING DIAGRAM



* Note: These quantities are included in the estimated quantities for the individual bridges as superstructure concrete and superstructure reinforcing steel. See Bridge Drawing for location





NOTES:

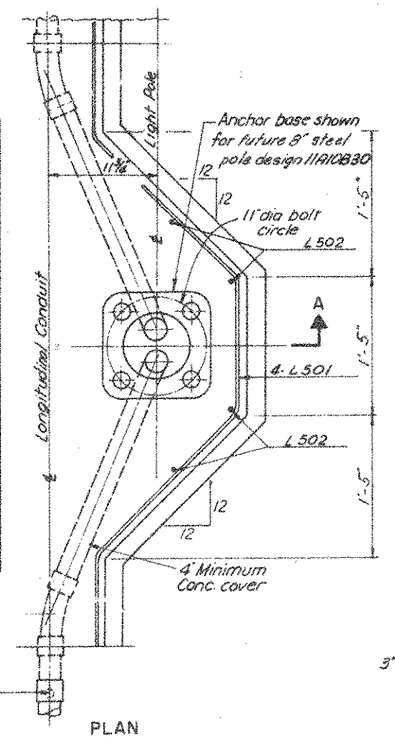
STRUCTURE ELECTRICAL GROUND SYSTEM

Furnish and install No 1/0, 7 strand, soft annealled, bare copper cable for the structure grounding system.

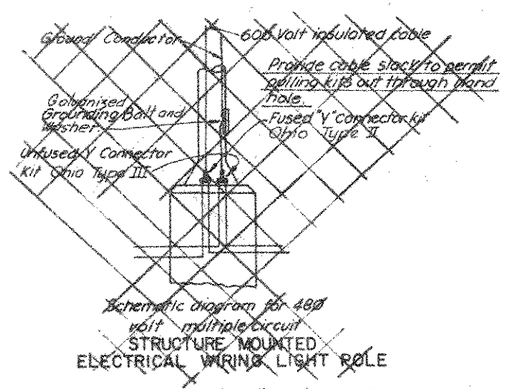
Provide a 25 ft length of cable looped under the pier footing, in as large a diameter loop as possible, and separate from the concrete with two (2) layers of tar paper. Extend cable (in one continuous length) through top of pier cap with lead of sufficient length to exothermic weld upper end of cable to outside girder or beam of super-structure.

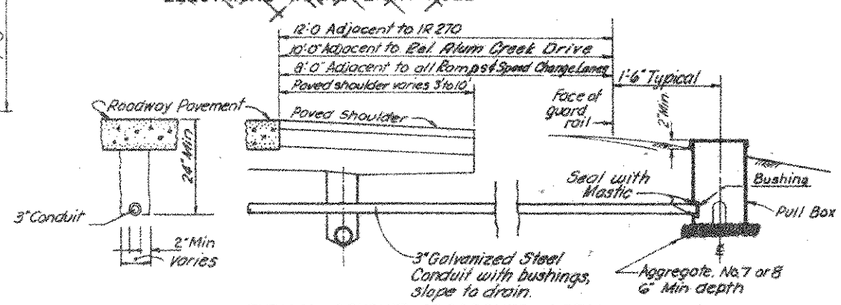
LIGHT POLE GROUND Provide No. 1/0 AWG 7 Strand, soft annealed bare copper cable exothermic weld end of cable to a light pole anchor rod & exothermic weld the other end to the top flange of outside girder or beam of the super-structure.

CONDUIT SYSTEM GROUND Provide No. 1/0 AWG 7 strand soft annealed bare copper cable, exothermic weld one end of the cable to the conduit & exothermic weld the other end of the cable to the grounded light pole anchor rod or the outside girder or beam of the super-structure. Furnish and install straps across all expansion fittings or where electrical continuity of metal conduit is interrupted.

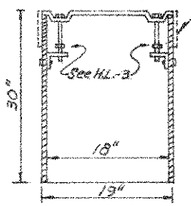


LIGHT POLE SUPPORT ON STRUCTURE





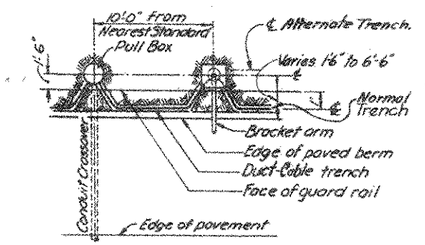
TYPICAL CONDUIT CROSSOVER DETAIL



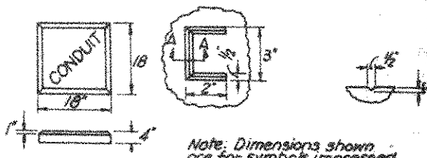
Bituminous fibre tube reinforced, 0.370 min. wall thickness, Federal General Services Spec. WC-581.

Notes - The Contractor shall furnish and install fiber pull boxes where shown on "Lighting Layout Sheets."
The Contractor shall drill holes for slip-fit, in the pull box for the duct-cable and/or conduit as required. The duct-cable shall be cemented into the pull box on the outside with an approved cement. Steel conduit shall be fastened to the pull box with steel lock-nuts and insulating bushings.

PULL BOX DETAILS



PULL BOX & DUCT-CABLE LOCATIONS



Impress the word
"CONDUIT" to indicate conduit (Initial & future lighting)
"CABLE" to indicate abrupt change in direction of duct-cable or cable
"LIGHT" to locate duct-cable coil for future light

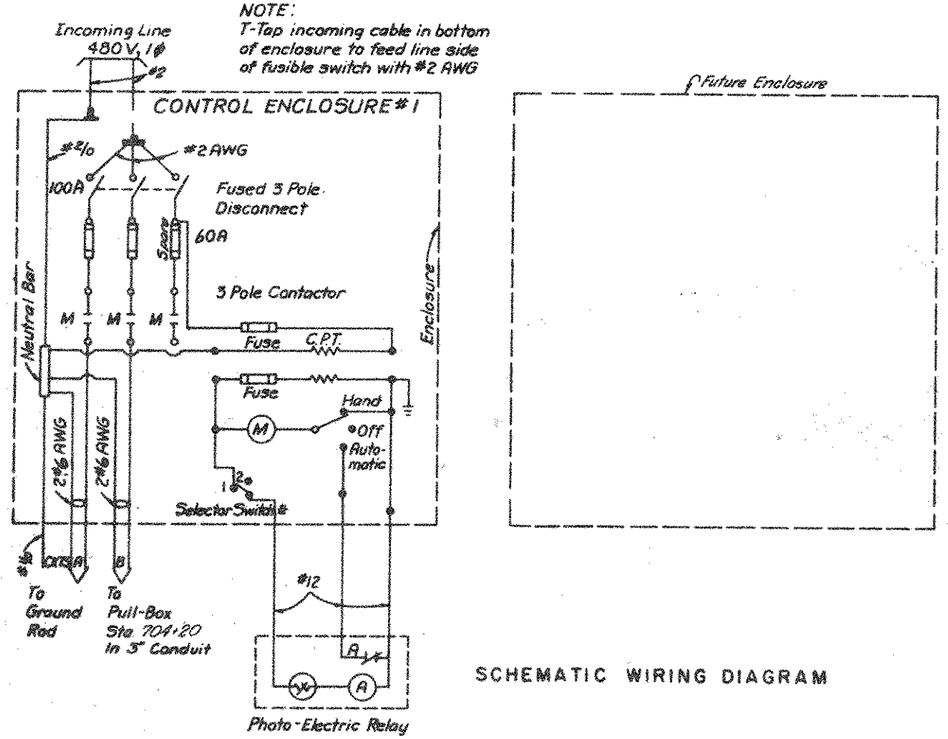
Note: Dimensions shown are for symbols impressed in concrete marker or in pull box cover

MARKER DETAILS

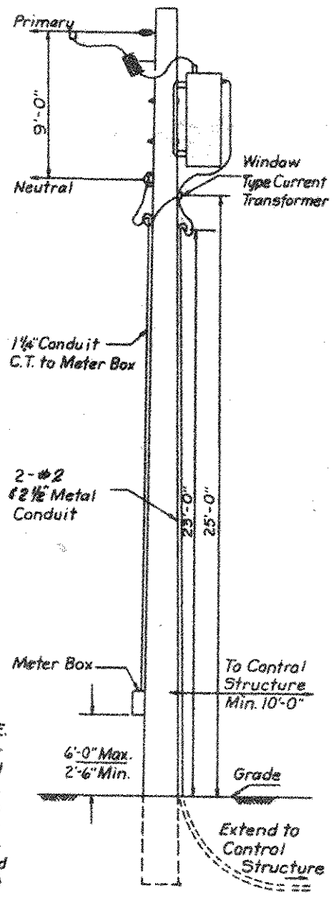
LIGHTING DETAILS - DISTRIBUTION

FED. RD. DIVISION	STATE	PROJECT		199 / 332
2	OHIO			

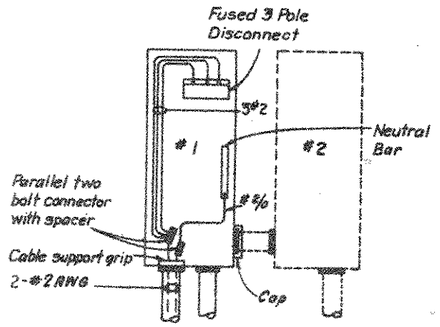
FRANKLIN COUNTY
FRA-270-11.59S



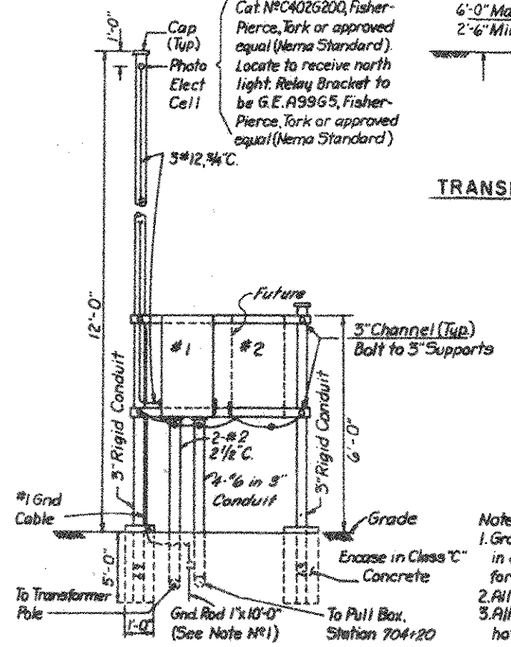
SCHEMATIC WIRING DIAGRAM



TRANSFORMER POLE



DETAIL OF FEED LINE CONNECTION



CONTROL CENTER "A"

Notes:
1. Grounding shall be accomplished in accordance with details called for on Sheet No 196
2. All fuses shall be delayed action.
3. All structural members shall be hot dipped galvanized.

NOTES

1. POWER SOURCE
Power will be supplied by the Columbus & Southern Ohio Electric Company. The Transformer Pole will be located at approximately Sta. 28+10 ℄ of Exist. Alum Creek Drive.

2. TRANSFORMER POLE
The Electric Company will furnish and install Transformer Pole, including the Transformer, and provide the window type current Transformer and meter box for installation by the Contractor. The Electric Company will furnish and install the wire connecting the meter to the Current Transformer. The Contractor will furnish and install the 1¼" and 2½" Conduit shown on the Pole. The 2½" Conduit shall extend down the pole to the Control Center. In the 2½" Conduit furnish and install two #2 AWG wires leading from the Control Structure thru the weatherhead leaving 5'-0" of free cable above the weatherhead for connection to the Transformer by the Electric Company.

3. LIGHT CONTROLLER
Light Controller is to be a combination across the line Magnetic Contactor, Square "D" Class 8903 ℄ Type W939FA629A, Columbus Electric Works, General Electric, or approved equal with following features:-
(A) Each Enclosure shall Contain:
1-100 Amp, 3-Pole Fusible Disconnect with interchangeable Fuse Clips.
1-100 Amp. 3-Pole Magnetic Contactor.
1-Control Power Transformer, Size 3 (500 V.A.), 480/120V. with 3 Amp. Fuse.
1-Hand-off-Automatic Switch, inside each Enclosure
1-Insulated Solid Neutral Bar capable of accepting 1 #6, 4 #2 and 2 #12 Conductors.
(B) A screwdriver is necessary for entrance into the Enclosure.
(C) The Disconnect Handle shall be mounted so as to remain with the housing when the door is opened.
(D) The Disconnect shall have provision for padlocking in either the "ON" or "OFF" position.
(E) The Disconnect cannot be turned on unless the door is completely closed and sealed.
(F) The door may not be opened normally when the disconnect is "ON". Provision shall be made for opening the door intentionally while the Disconnect is "ON".
(G) The Enclosure must be Stainless Steel NEMA-4 with ⅜" mounting holes in each of the top and bottom flanges with no conduit holes.

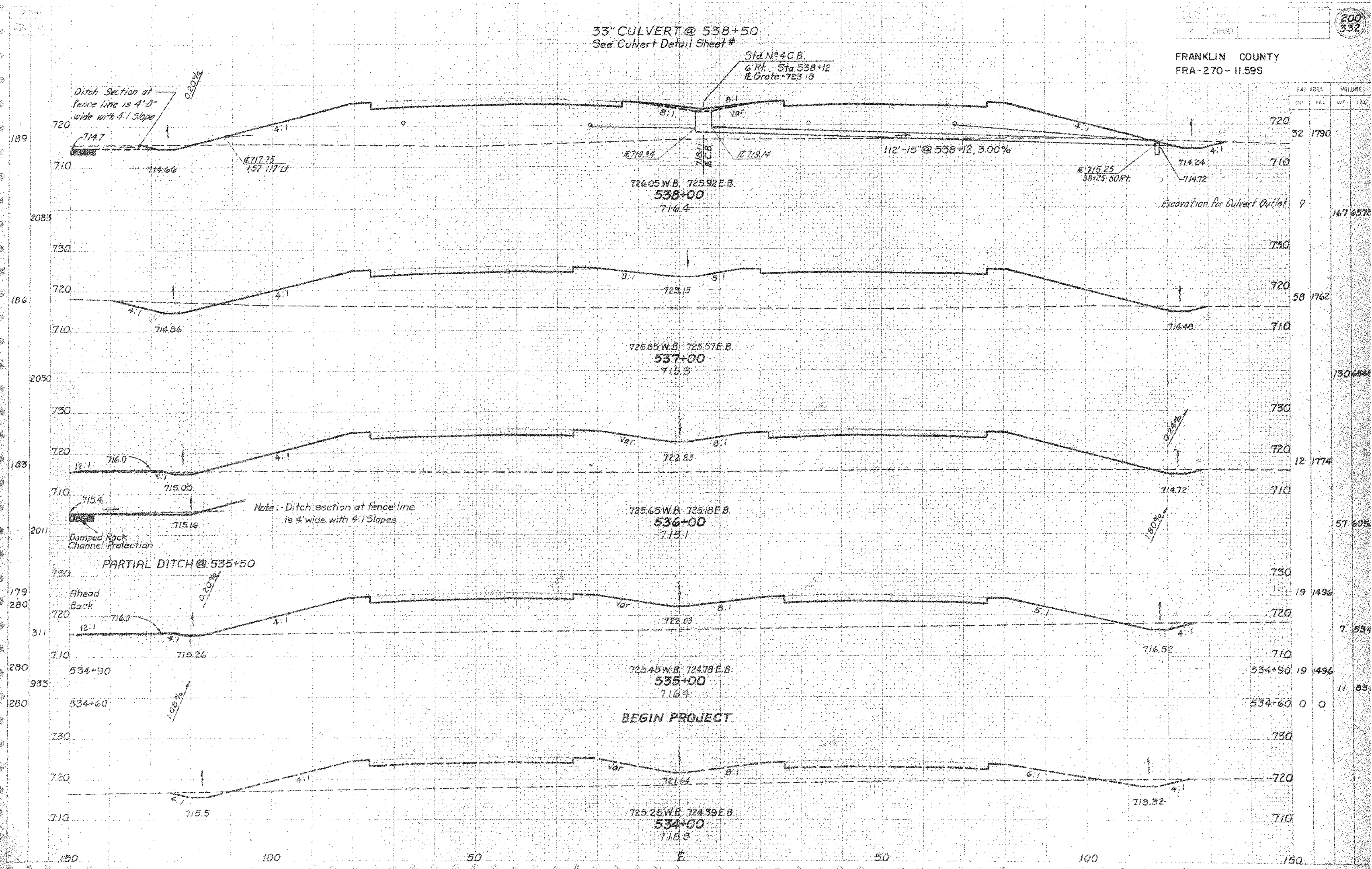
4. The Contract Lump Sum price bid for Item 625 Control Center & Transformer Pole Circuits shall be full compensation for furnishing all materials and performing all labor indicated for the Contractor in Item 2 above; furnishing all materials and equipment shown on the Detailed Drawing for the Control Center and called for in Item 3 above; for furnishing and installing all conduit and cable required to connect the Control Center to the Transformer Pole and to the Pull Box shown on Sheet No 195, Station 704+06, Ramp X and for furnishing and installing all incidentals necessary to make a complete workable installation. Pullbox included with Roadway Item.

* 1-Two position Selector Switch Enclosure (One Unit Only). 1-Set of Cable Lugs required - See Wiring Diagram.

See Sheet No. 196 for Control Center "B" & "C" Details (240 Volt Service.)

CONTROL CENTER "A"
480 Volt Service

FRANKLIN COUNTY
FRA-270-11.59S



FED. ROAD SECTION	STATE	PROJECT	
2	OHIO		

201
332

FRANKLIN COUNTY
FRA-270-11.59S

SEEDING

EXIST. WIDTH	SQ. YDS.
107	1583
193	1176
192	1058
189	2072
184	2072

743.70
2:1
Limit of Section
0.32%
4:1
728.10

726.99
542+00
723.7
8:1 4:1 4:1 8:1
725.52 725.32
724.45 724.95
720

726.87
541+50
8:1 4:1 4:1 8:1
724.34 724.34
12:1 4:1 4:1
720.10

726.76
541+05
723.0
8:1 8:1
723.96
4:1 5:1
719.00

726.63
540+50
724.0
8:1 8:1
723.84
8:1
718.00

726.51
540+00
723.0
8:1 8:1
723.57
Var.
5:1 4:1
717.00

726.27 W.B. 726.24 E.B.
539+00
716.5
719.56

Limit of Section
100%
2:1
4:1
722.50
290%
Section Ahead
4.5:1 4:1 4:1
721.50
719.94
Section Back
0.48%
5:1 4:1
719.26
4:1 4:1
718.00
4:1 4:1
717.00
4:1
715.00

33" CULVERT @ 538+50
See Culvert Detail Sheet # 148

Ditch Elevation @ 538+50, 714.56

Ditch Elevation @ 538+50, 714.00

	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
	62	302		
			457	1171
	198	368		
			369	748
	164	366		
			300	794
	160	492		
			352	410
	30	1726		
			115	651

150 100 50 ℄ 50 100 150

FED. ROAD DESIGNATION	STATE	PROJECT	
2	OHIO		

202
332

FRANKLIN COUNTY
FRA-270-11.59S

SEEDING

EXP. WIDTH	VOL. (CY)
191	
2156	
197	
2228	
204	
497	
154	
379	
119	
628	

END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
2012	0		
		6796	0
1656	0		
		5133	0
1114	0		
		924	0
882	0		
		587	2
386	4		
		415	28

0.24%
12:1 4:1 8:1
725.32
727.71
545+00
734.9
8:1 8:1 8:1
724.88
4:1 4:1

0.95%
4:1 7:1
724.37
727.47
544+00
733.1
7:1 7:1
724.20

0.95%
12:1 4:1 6:1
725.42
0.32%
Std. No 4 C.B.
℄ Sta. 543+00
℄ Grate = 724.22
Std. No 5 C.B.
101' Rt ℄ Sta. 543+00
℄ Grate = 723.32
0.60%
8:1 8:1
720.86
℄ C.B.
727.23
543+00
730.8
101'-15" @ 0.36%
6:1 6:1
720.50
℄ C.B.
4:1 12:1

Normal Ditch Dike 542+92

Variable
5:1
723.34
727.00
Var. Var.
8:1 8:1
725.60
725.50
727.17
542+75
728.8
6:1 4:1 12:1
728.25
0.60%
Variable
Limit of Section
Limit of Section
2:1
4:1
725.26
727.00
Var. Var.
8:1 8:1
725.61
725.44
727.11
542+50
726.6
6:1 2:1
723.00

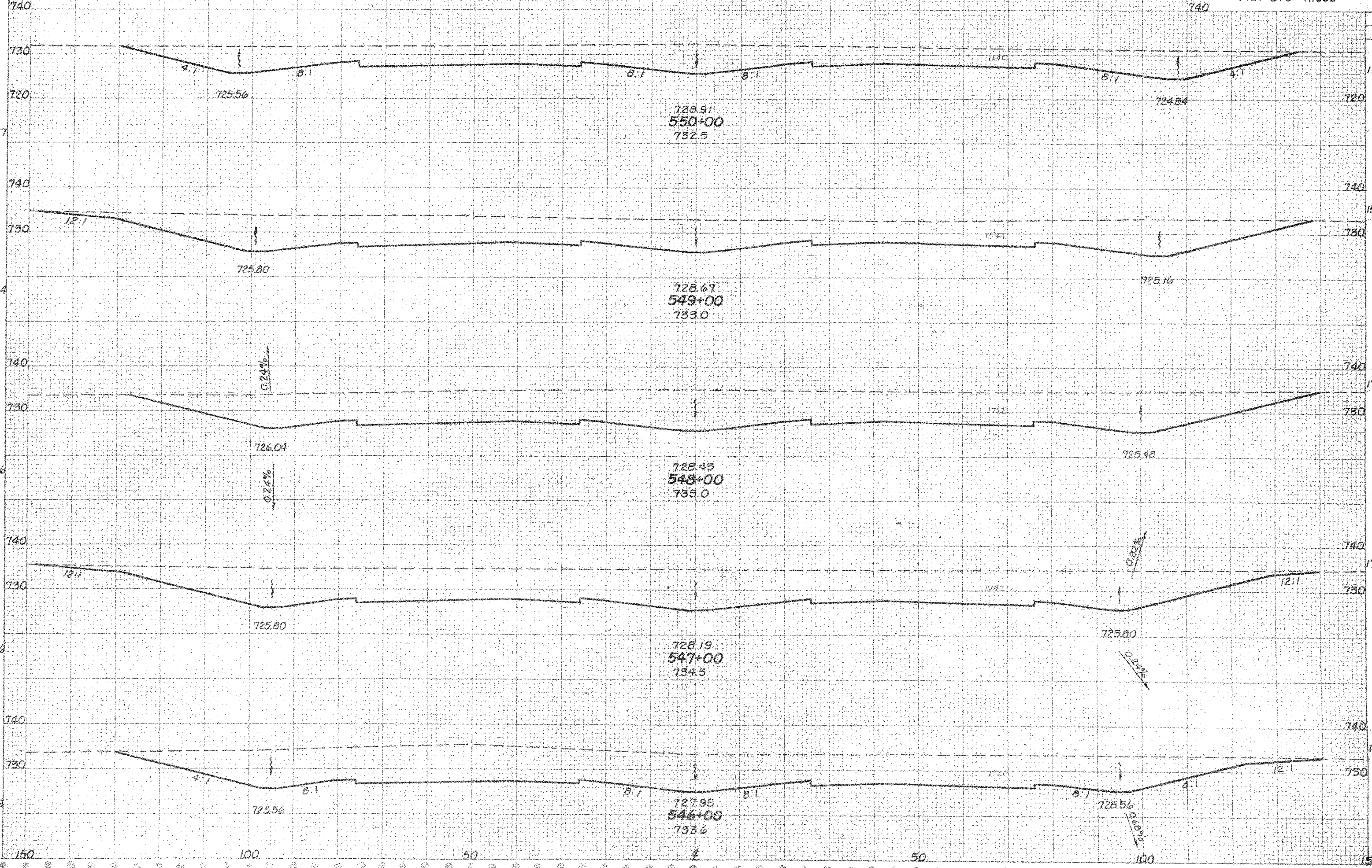
150 100 50 ℄ 50 100 150

IR-270 XS SECTIONS 542+50 to 5

FED. RD. DIVISION	STATE	PROJECT		
2	OHIO			203 332

FRANKLIN COUNTY
FRA-270-11.59S

SEEDING	
END WIDTH	SQ YDS
189	
	2117
192	
	2144
194	
	2156
194	
	2156
194	
	2139



END AREA		VOLUME	
CUT	FILL	CUT	FILL
1140	0		
		4970	0
1544	0		
		6133	0
1768	0		
		6595	0
1792	0		
		6504	0
1720	0		
		6911	0

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

204
332

FRANKLIN COUNTY
FRA-270-11.59S

SEEDING
END WIDTH | SQ. YDS.

208	
231.7	
209	
131.8	
200	
89.8	
185	
208.3	
190	
210.4	

PARTIAL SECTION @ 553+50

Bench 728.00
0.24%
1.50%
726.98
729.87
554+00
729.9
720.05
726.00
Riprap
Channel Protection
Dumped Rock
Ditch Section @ 553+15
℄ 723.91
℄ 724.10
54" Culvert
15"-6" Pipe
729.63
553+00
726.9
54" CULVERT @ 553+00
See Culvert Details
End Ditch @ 552+90, Elev. 725.91
728.00
6" Clay Tile
724.98
729.49
552+42
724.9
10" Clay Tile (Abandoned)
724.07
4:1 Slope Extends to 552+90
Level 725.6
725.08
729.39
552+00
727.0
724.20
725.32
729.15
551+00
731.5
724.52

END AREA CUT	END AREA FILL	VOLUMES CUT	VOLUMES FILL
	244	5	
		574	65
	46	350	
		105	101
	32	598	
		124	68
	128	288	
		659	59
	768		
		353	0

IR-270 & SECTIONS 551 TO 554

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

205
332

FRANKLIN COUNTY
FRA-270-11.59S

SEEDING
SQ. YDS.

			END AREA		VOLUME	
			CUT	FILL	CUT	FILL
235	2606	559+00	1364	0		
234		558+00	1224	0	4793	0
232	2589	557+00	1014	0	4144	0
226	2544	556+00	674	0	3126	0
200	2367	555+00	344.46		1885.85	
	2267				1089.94	

559+00: 731.07 | 732.9 | 727.42 | 718.85
558+00: 730.83 | 731.6 | 727.94 | 719.09
557+00: 730.59 | 731.1 | 727.70 | 719.53
556+00: 730.35 | 730.1 | 727.46 | 719.57
555+00: 730.11 | 729.1 | 727.22 | 719.81

Inside Underdrains 728.94
Std. No. 4 C.B. ℄ Sta. 555+00 ℄ Grate = 727.13
729.00 E.C.B.
720.18

IR-270 X-SECTIONS 555 TO 559

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

206
332

FRANKLIN COUNTY
FRA-270-11.59S

SEEDING

ENG.	AG.
WIDTH	TYP.

END AREA — CUT | FILL

VOLUME — CUT | FILL

228 — 1256 — 740 — 730 — 720 — 12:1 — 4:1 — 8:1 — 728.50 — 731.91 — 562+50 — 733.7 — 8:1 — 8:1 — 8:1 — 24:1 — 730 — 720 — 776 — 74 — 1887 — 6

Limit of Section — 730 — 720 — 562+50 — 160 — 718.01 — 180 — 200 — 74.0 — 730 — 720

230 — 720 — 562+00 — 160 — 718.13 — 180 — 200 — 200

225 — 2544 — 740 — 730 — 720 — 5:1 — 728.42 — 731.79 — 562+00 — 734.9 — 8:1 — 2:1 — 1262 — 0

730 — 720 — 561+00 — 160 — 718.37 — 180 — 200 — 4715 — 0

233 — 2589 — 740 — 730 — 720 — 6:1 — 728.66 — 731.55 — 561+00 — 733.5 — 8:1 — 1284 — 0

730 — 720 — 560+00 — 160 — 180 — 200 — 4920 — 0

233 — 2600 — 740 — 730 — 720 — 12.4% — 8:1 — 728.90 — 8:1 — 8:1 — 8:1 — 731.31 — 560+00 — 733.7 — 8:1 — 8:1 — 24:1 — 8:1 — 1373 — 0

24.8% — 150 — 100 — 50 — ℄ — 50 — 100 — 720 — 718.61 — 150 — 5069 — 0

IR-270 X-SECTIONS 560 TO 562

207
332

FRANKLIN COUNTY
FRA-270-11.59S

SEEDING

ENG.	AG.
WIDTH	TYP.

END AREA — CUT | FILL

VOLUME — CUT | FILL

271 — 5000 — 740 — 730 — 720 — 12:1 — 6:1 — 8:1 — 727.46 — 732.66 — 566+00 — 728.1 — 8:1 — 8:1 — 8:1 — 24:1 — 730 — 720 — 924 — 672 — 3385 — 226

740 — 720 — 566+00 — 160 — 717.63 — 180 — 200

269 — 3004 — 740 — 730 — 720 — 8:1 — 727.70 — 732.51 — 565+00 — 727.6 — 8:1 — 904 — 564

740 — 720 — 565+00 — 160 — 717.34 — 180 — 200

272 — 2928 — 740 — 730 — 720 — 727.94 — 732.27 — 564+00 — 728.2 — 8:1 — 786 — 636 — 3130 — 222

740 — 730 — 720 — 564+00 — 160 — 717.10 — 180 — 200

255 — 1342 — 740 — 730 — 720 — 4:1 — 8:1 — 728.18 — 8:1 — 8:1 — 8:1 — 732.03 — 563+00 — 732.7 — 8:1 — 24:1 — 819 — 370 — 1477 — 411

730 — 720 — 563+00 — 160 — 716.86 — 180 — 2:1 — 2:1 — 2972 — 1865

150 — 100 — 50 — ℄ — 50 — 100 — 150

IR-270 X-SECTIONS 563 TO 566

FED. RD. DIST.	STATE	PROJECT	
2	OHIO		

208
332

FRANKLIN COUNTY
FRA-270-11.59S

BEDDING: ENG. WIDTH 0.0 VOL.

	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
570+00	0	2174	0	
569+00	0	1572	6937	0
568+00	76	1464	5622	14
567+00	276	1268	5059	65
			3059	175

266 740 730 6:1 728.55 8:1 8:1 732.15 570+00 734.3 8:1 24:1 4:1

2972 740 730 0.24% 6:1 728.31 8:1 4.00% 732.39 569+00 732.3

3011 250 740 730 728.00 18" Pipe @ 567+82 2:1 2:1 724.32 10:1 8:1 ℄ 733.86 Ex. 18" Conc. Pipe 567+82, 142' Lt. 732.60 568+00 731.7

3050 250 200 740 730 720 567+00 150

276 740 730 9.4% Bench 729.0 Var. 6:1 727.22 8:1 8:1 8:1 24:1 732.69 567+00 731.4

3039 150 100 50 ℄ 50 100 150

570+00 740 730 720 150 718.54 180 200 2:1 2:1 4:1

569+00 740 730 720 150 718.30 180 200

568+00 740 730 720 160 718.06 180 200

567+00 740 730 720 160 717.92 180 200 220

SR-270 X-SECTIONS 5679 to 5711

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

209
332

FRANKLIN COUNTY
FRA-270-11.59S

SEEDING

	END WIDTH	TO	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
257						
			730	2500	0	
284					9230	0
			730	2484	0	
285					9104	0
			730	2432	0	
288					8637	0
			730	2252	0	
289					8545	0
			730	2392	0	
292					8454	0

740
730
720
6:1
8:1
8:1
8:1
8:1
24:1
2:1
728.31
730.95
575+00
735.5
575+00
719.74
160
180
200
2:1
574+00
719.50
728.55
731.19
574+00
736.0
573+00
719.26
728.79
731.43
573+00
735.9
572+00
719.02
729.03
731.67
572+00
735.5
571+00
719.78
728.79
731.91
571+00
737.0
150
100
50
℄
50
100
150

IR-270 @-SECTIONS 257 @ TO

FED. AID SECTION	STATE	PROJECT	
2	OHIO		

210
332

FRANKLIN COUNTY
FRA-270-11.59S

SEEDING

	END WIDTH	SQ YDS
580+00	235	2622
579+00	237	2667
578+00	243	2711
577+00	245	2722
576+00	245	2789

580+00 — 730.38 — 735.28
579+00 — 730.27 — 738.4
578+00 — 730.30 — 735.6
577+00 — 730.47 — 736.2
576+00 — 730.71 — 734.8 ℄

+1.44%
12:1 3:1 6:1 8:1 8:1 8:1 24:1 2:1
725.36
721.34
+2.60%
2:1 4:1
722.76
℄ 722.50 579+80
Std. No 4 C.B. ℄ Sta. 579+00 ℄ Grate = 727.35
729.92
℄ 724.17
579+75 721.68 ℄ C.B.
140' of 15" @ 0.30%
℄ 724.12 579+10
℄ 721.94
720.90
+7.5% 722.06
48" CULVERT 578+75
See Culvert Detail Sheet 149
727.88
6:1 8:1
727.23
℄ 723.80 578+70
℄ 722.46 578+45
℄ 721.66
720.46
+0.84%
Std. No 4 C.B. ℄ 577+75 ℄ Grate = 727.35
℄ 724.15 Underdrains
577+75 721.48 ℄ C.B.
140 of 15" @ 0.30%
727.85
0.60%
720.22
+5% 721.05
12:1 6:1 8:1 8:1 8:1 24:1 2:1
728.07 0.12%
719.98

	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
580+00				
	740			
	2350	0		
	730			
			3126	0
579+00				
	740			
	2038	0		
	730			
			7700	0
578+00				
	740			
	2120	0		
	730			
			3333	0
577+00				
	740			
	2380	0		
	730			
			3444	0
576+00				
	740			
	2180	0		
	730			
			3667	0

160 180 160 180 160 180 160 180

150 100 50 50 100 150

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

211
332

FRANKLIN COUNTY
FRA-270-11.59S

SEEDING

AND MULCH	TO TOP
227	2522
227	2539
230	2564
231	2564
230	2583

END AREA		VOLUME	
CUT	FILL	CUT	FILL
2068	0	7285	0
1866	0	7685	0
2284	0	8656	0
2390	0	9070	0
2508	0	8996	0

585+00 — 731.91 — 736.2
584+00 — 731.59 — 735.4
583+00 — 731.27 — 737.0
582+00 — 730.95 — 736.9
581+00 — 730.63 — 737.0

729.08 · 728.54
728.60 · 725.10
728.52 · 722.66
728.24 · 722.22
726.80 · 721.78

0.28%
1.44%

IR-270 X-SECTIONS 585 TO 581

FED. AID EXPRESSWAY	STATE	PROJECT	
2	OHIO		

212
332

FRANKLIN COUNTY
FRA-270-11.59S

SEEDING
END WIDTH | SQ YDS

Std. No 4 C.B.
℄ Sta. 590+00
℄ Grate = 730.58

℄ C.B. 733.51
590+00
737.7

135' of 15" @ 0.40%

730.48

725.74

724.66

END AREAS CUT | FILL — VOLUMES CUT | FILL

223 2472 — 1844 0 — 7537 0

730.20

735.19
589+00
737.9

℄ 727.49
590+42

℄ 726.60
590+03

725.30

222 2483 — 2118 0 — 8037 0

729.92

732.87
588+00
738.5

724.86

225 2489 — 2222 0 — 7919 0

729.64

732.55
587+00
736.8

724.42

223 2489 — 2054 0 — 7278 0

729.36

732.23
586+00
737.2

723.98

225 2511 — 1876 0 — 7304 0

150 100 50 ℄ 50 100 150

IR-270 X-SECTIONS 586 TO 590

FED. NO. DIVISION	STATE	PROJECT	
2	OHIO		

213
332

FRANKLIN COUNTY
FRA-270-11.59S

SECTIONS

END AREA		VOLUMES	
FILL	CUT	FILL	CUT
2411	214	4793	1040
2456	220	5985	1548
2461	222	5389	1684
2461	221	5122	1226
2472	222	6267	1540

595+50
735.27
733.19
732.70
731.88

595+00
735.11
736.8

594+50
734.95
732.20
731.60

594+00
734.79
736.5
731.32

593+00
734.47
737.4
731.04

592+00
734.15
735.8
730.76

591+00
733.83
736.7
E 727.52 590+25
E 727.00 590+25
727.94
727.50
727.06
726.62
726.18

IR-270 & SECTIONS 591 TO 595

FED. ROAD DIVISION	STATE	PROJECT	
2	OHIO		

214
332

FRANKLIN COUNTY
FRA-270-11.59S

SEEDING		END AREA		VOLUME	
CWT./ACRE	LB./ACRE	CUT	FILL	CUT	FILL
217		742	41		
	2417				3374 15
218		1080	34		
	2339				5657 11
203		895	30		
1090				2142	32
133		1104	0		
573				1304	0
115		588	0		
1828				3015	0

730
4:1
7:1
733.00
8:1
4:1
4:1
736.54
599+00
737.9
8:1
734.79
8:1
4:4
5:1
732.18
Bench 734.80
6:1
730

730
4:1
6:1
732.72
736.07
598+00
738.3
734.32
731.82
Bench 734.56
6:1
730

730
4:1
6.4:1
732.44
735.75
597+00
737.9
734.00
8:1
733.00
6:1
730

750.30
Limit of Section
2:1
6.7:1
732.30
730
735.56
596+41.61
738.34
733.81
4.2:1
731.25
Limit of Section
750.30
2:1
730

2:1
6.8:1
732.28
PARTIAL DITCH SECTION
@ 596+25

Limit of Section
24:1
4:1
6:1
732.16
730
735.43
596+00
737.0
℄
733.68
8:1
4:1
4:1
8:1
5.88%
5.5:1
731.10
0.44%
0.26%
9.82%
Limit of Section
730

150 100 50 50 100 150

℄ Rt Ditch @ 595+50 - 128.16

IR-270 X-SECTIONS 596 TO 599

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

215
332

FRANKLIN COUNTY
FRA-270-11.59S

SECTION	STATION	SPACING EXP. WIDTH	SPACING FILL	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
225	603+00						
		2489		204	404	752	1433
223	602+00						
		2472		202	370	1059	696
222	601+00						
		2450		370	6	1992	11
219	600+00						
		1211		706	0	1461	20
217	599+50						
		1206		872	22	1494	58
	599+80						

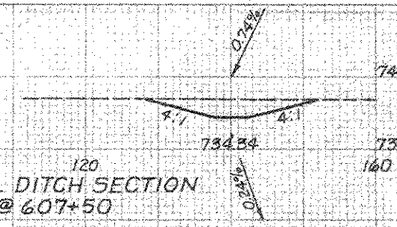
Std. No. 4 CB
℄ Sta 602+50
℄ Grate 737.77

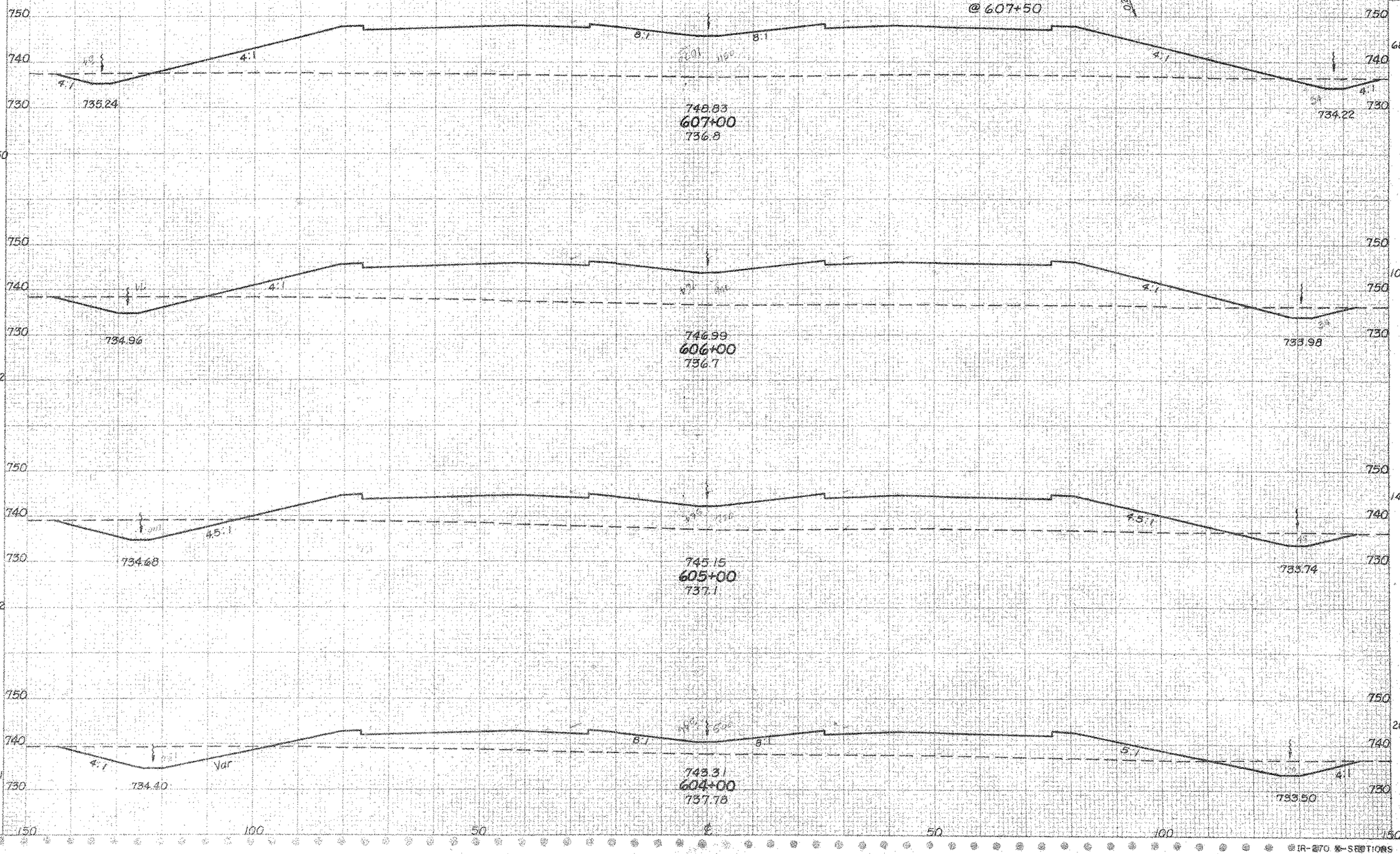
℄ 736.22
℄ 735.56
741.47
603+00
737.6
734.34 ℄ CB 602+50
116' of 15" @ 0.60% @ 602+50
733.64 602+50
733.26
733.12
733.84
℄ 734.84 602+50
℄ 736.10 602+50
+50
737.84
738.03
739.78
602+00
736.8
℄ 732.10
℄ 733.64
733.02
738.40
601+00
737.2
736.75
732.78
735.56
738.28
737.32
600+00
737.9
736.57
732.54
0.24%
0.56%
End Bench
599+80
736.89
599+50
736.6
735.14
733.14
Bench 734.92
732.36

740
730
4:1
8:1
6:1
5:1
7:1

150 100 50 ℄ 50 100 150

IR-270 & SECTIONS 599+80 TO 603





FED. RD. DIVISION	STATE	PROJECT
2	OHIO	

216
332

FRANKLIN COUNTY
FRA-270-11.59S

SEEDING END WIDTH	SEEDING SQ. YDS.
232	
	2550
227	
	2522
227	
	2522
227	
	2511

END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
68	2220		
		326	726
108	1704		
		474	553
148	1284		
		644	394
200	846		
		748	231

FED. RD. DESIGNATION	STATE	PROJECT	
2	OHIO		

217
332

FRANKLIN COUNTY
FRA-270-11.59S

PARTIAL DITCH SECTION
@ 611+50

0.40%
0.28%

736.50
736.44
736.08
735.80
735.52
736.19
735.45
734.21

611+30
756.74
741.5

611+00
756.19
740.9

610+00
754.35
737.9

609+00
752.51
736.9

608+00
750.67
736.7

STA.	AREA CUT	AREA FILL	VOLUME CUT	VOLUME FILL
611+30	46	3570		
			85	373
611+00	104	3154		
			285	1226
610+00	50	3470		
			174	1218
609+00	44	3108		
			207	1078
608+00	68	2684		
			252	908

IR-270 ✱ SECTIONS 608 TO 611+30

FED. RD. DIV. NO.	STATE	PROJECT	
2	OHIO		

218
332

FRANKLIN COUNTY
FRA-270-11.59S

SECTIONS

END WIDTH	SQ. YDS.
160	255
160	858
160	1439
160	1444
160	1286
160	767
160	258
160	262
160	264

END AREA		VOLUME	
CUT	FILL	CUT	FILL
130	4153		
160	4410	161	47
140	4314	278	80
78	4130	202	76
48	3858	103	64
45	35		

760.42
613+30
736.9

759.87
613+00
735.6

758.95
612+50
734.9

Std. No. 4 C.B.
℄ Sta. 612+00
℄ Grate = 755.16

758.03
612+00
735.9

757.20
611+56
736.7

℄ 753.25
℄ 756.00
79.00 ℄ C.B.
15"@ 0.80%
℄ 753.54
℄ 734.00

754.46
754.47
0.734%

737.22
737.10
736.70
736.52
738.63
738.41
738.04
737.67
737.34
739.00

IR 270 X-SECTIONS 611+56 TO 6

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

219
332

FRANKLIN COUNTY
FRA-270-11.59S

SPACING
END AREA — CUT | FILL
VOLUME — CUT | FILL

616+00 — 760 / 750 / 740 / 730 — 740 — 160 — 4:1 — 2:1 — 8:1 — 8:1 — 2:1 — 12:1 — 4:1 — 4:1 — 738.30 — 765.39 — 742.2 — 740.19 — 268 — 2967 — 114 4520 — 474 6137
615+00 — 760 / 750 / 740 / 730 — 740 — 160 — 4:1 — 4:1 — 737.90 — 763.55 — 741.9 — 739.89 — 266 — 2956 — 142 4194 — 433 4904
614+00 — 760 / 750 / 740 / 730 — 740 — 160 — 4:1 — 4:1 — 737.50 — 761.71 — 741.6 — 739.15 — 266 — 1442 — 92 3852 — 185 7017
613+50 — 760 / 750 / 740 / 730 — 740 — 160 — 4:1 — 2:1 — 8:1 — 8:1 — 2:1 — 12:1 — 4:1 — 4:1 — 737.29 — 760.79 — 735.6 — 738.78 — 253 — 564 — 108 3726 — 88 2926

+0.50%
-0.50%
0.4%

150 100 50 ℄ 50 100 150

IR-270 X-SECTIONS @13+50 TO 616+00

FED. PROJECT NUMBER	STATE	PROJECT	
2	OHIO		

220
332

FRANKLIN COUNTY
FRA-270-11.59S

SEEDING
FED WIDTH | SQ. YDS.

	AREA CUT	AREA FILL	VOLUME CUT	VOLUME FILL
270		57	6684	
3011			200	2341
272		51	5958	
3028			280	2127
273			100	5528
3006			367	1951
268		98	5010	
2978			395	1640

620+00 — 740 — 739.90 — 160 — 4:1 — 4:1 — 2:1 — 8:1 — 8:1 — 2:1 — 12:1 — 772.75 — 620+00 — 741.5 — 740 — 741.39 — 160 — 180 — 770 — 0.30% — 0.30%

619+00 — 740 — 739.50 — 160 — 4:1 — 2:1 — 770.91 — 619+00 — 742.6 — 740 — 741.09 — 160 — 180

618+00 — 740 — 739.10 — 160 — 5:1 — 2:1 — 769.07 — 618+00 — 742.5 — 8:1 — 8:1 — 2:1 — 740 — 740.79 — 160 — 180

617+00 — 740 — 738.70 — 160 — 5:1 — 4:1 — 2:1 — 12:1 — 767.23 — 617+00 — 742.4 — 12:1 — 4:1 — 4:1 — 740 — 740.49

150 100 50 ℄ 50 100 150

IR-270 X-SECTIONS 617+00 TO 620+00

FED. ROAD DESIGNATION	STATE	PROJECT	
2	OHIO		

221
332

FRANKLIN COUNTY
FRA-270 11.59S

SEEDING

END WIDTH	SQ. YDS.
226455	534+60 to 623+57
1354	Seeding Quantity Abutment
152	Rt. Back
152	Lt. Back
1689	Seeding Quantity Rt.
1267	Seeding Quantity Lt.
152	Ahead Rt.
152	Ahead Lt.
304	Back
3294	
289	
3106	

PARTIAL DITCH SECTION @ 622+55

622+75 — 777.58 — 741.9
623+00 — 777.97 — 741.9
622+50 — 778.83 — 774.45
622+00 — 776.36 — 741.9
621+50 — 773.10 — 772.35 — 773.60 — 774.00
621+00 — 774.59 — 741.2

Bench 741.8

Earthwork Quantity
534+60 to 623+57

Earthwork Quantity
623+00 Rt. to 623+57 Rt.
Earthwork Quantity
622+75 Lt. to 623+51 Lt.

Earthwork Quantity Rt.
Earthwork Quantity Lt.

	FND. AREA CUT	FND. AREA FILL	VOLUME CUT	VOLUME FILL
Back Rt.	0	4240		
Back Lt.	3	4066		
Ahead Rt.	18	3858		
Ahead Lt.	6	3847		
Back	24	7697		
	17	7330		

IR-270 X-SECTIONS 622+00 TO 623+57

FED. ROAD DIST. NO.	STATE	PROJECT	
2	OHIO		

222
332

FRANKLIN COUNTY
FRA-270-11.59S

PARTIAL DITCH @ 626+50

PARTIAL SECTION
626+50

626+00
741.3

625+00
741.3

624+60 = 625+00

624+06 Rt. to 625+00 Rt.

624+06 Lt. to 624+60 Lt.

Seeding Quantity
C.E.O. R.R.

48" CULVERT @ 624+25
See Culvert Detail Sheet # 150

BRIDGE LIMITS
624+62.63
623+01.37

Abutment Section @
624+60 Lt. = 625+00 Lt.

Earthwork Quantity
624+06 Rt. to 625+00 Rt.

Earthwork Quantity
624+06 Lt. to 624+60 Lt.

C.E.O. R.R. X-Section Quantity
See Sheet 136

DITCH SECTION 624+00 LEFT

DITCH SECTION 623+50 RIGHT

SECTIONS	END AREA		VOLUMES	
	CUT	FILL	CUT	FILL
318				
3522				
316				
1404				
316				
362				
807				
655				
		2		9710
				35 3584
			17	9212
			25	3641
			17	9212
				7545
				7836
				100 12

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

223/332

FRANKLIN COUNTY
FRA-270-11.59S

SECOND

END WIDTH	SQ YDS
	325
	3578
	3539

END AREA		VOLUME	
CUT	FILL	CUT	FILL
		10	10126
		37	37
		10	9888
		22	362

628+00
741.2
785.83
741.8
740.28
627+00
741.5
782.96

Extend 4 Width Ditch with 8:1 Slopes to Right of Way @ 627+50

782.1
741.0
18" Dumped Rock

89'-15" @ 0.00%
-0.24%
+1.16%
+90-155 Rt 740.29
+90-162 Rt 740.29
+90 740.55
Special Protection
740.52

Std. No 4 C.B.
℄ Sta. 627+90
℄ Grate = 779.96
89'-15" @ 0.80% @ 626+90
+90 772.78
64'-15" @ 50.0%
See Drainage Detail

2:1
8:1
12:1
4:1

IR-270 X-SECTIONS @ 628 TO 627

FED. ROAD DESIGNATION	STATE	PROJECT	
2	OHIO		

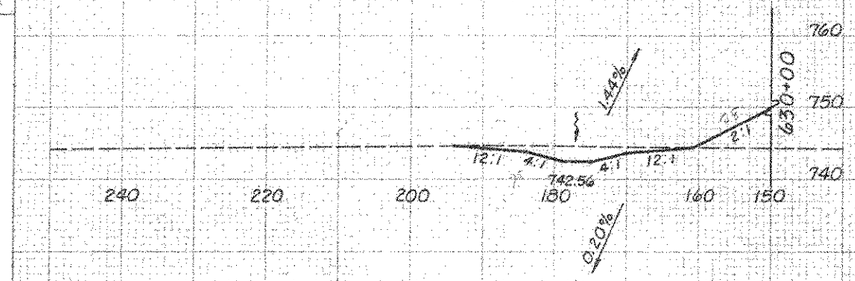
224
332

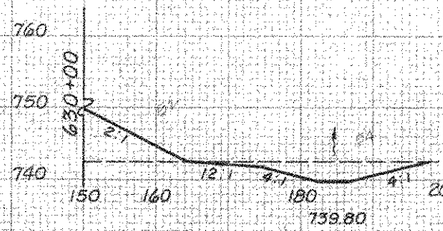
FRANKLIN COUNTY
FRA-270-11.59S

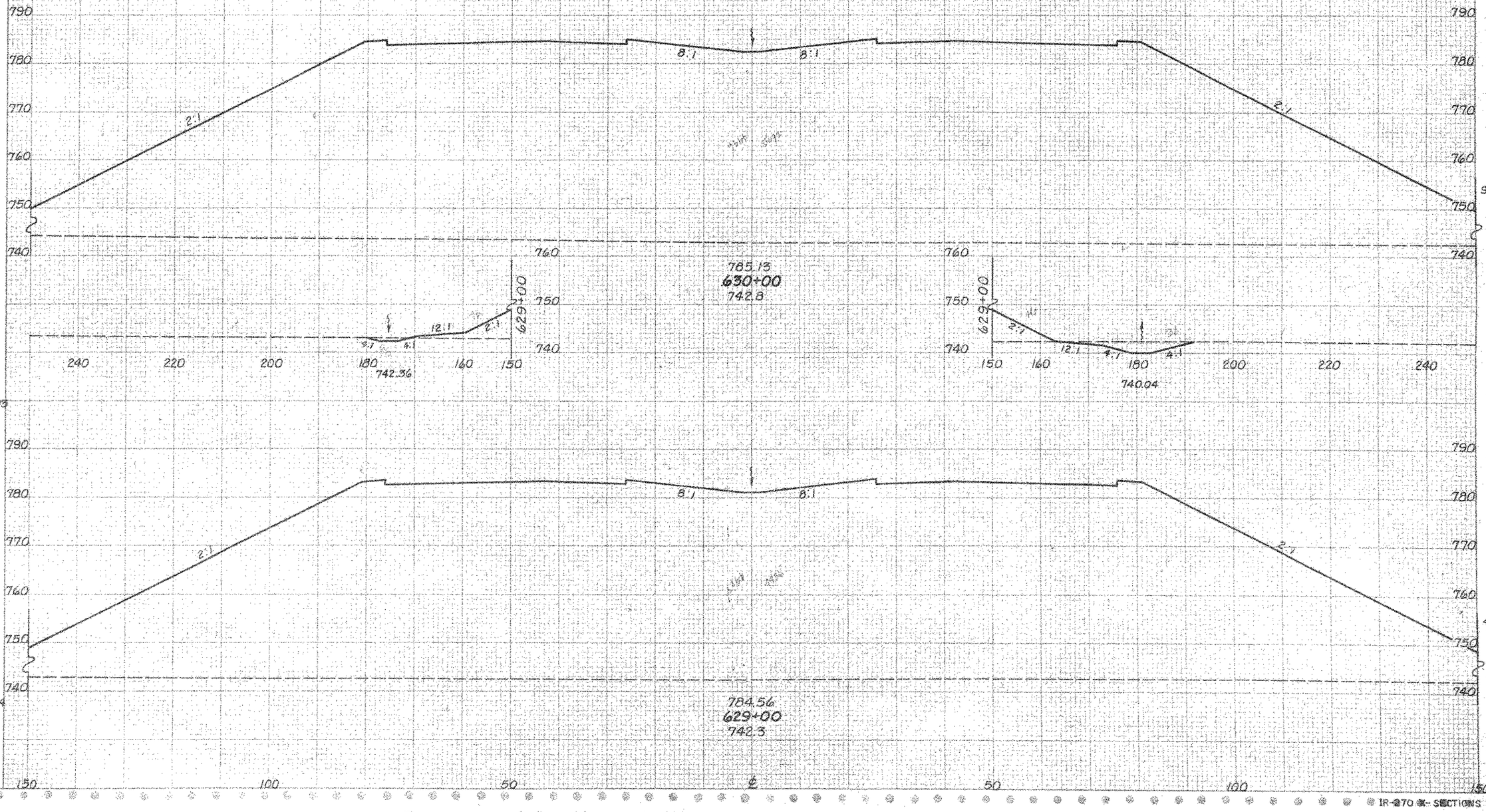
SEEDING

END WIDTH	SQ. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL
314			
3783			
340		41	9956
3694			







SECT NO SUBDIV	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY
FRA-270-11.59S

SECTIONS
CAD WIDTH | SC FILE

ENG AREA | VOLUME
CUT | FILL | CUT

632+00
741.44
739.32
785.84
742.9
631+00
744.4
785.56
739.56
144.00
632+00
631+00
+1.32%
-2.96%
+1.44%
2:1
8:1
4:1
12:1
5%
240 220 200 180 160 150 100 50 ℄ 50 100 150
760 750 740 790 780 770
3850
3800
350
343
88 10200
68 9898
2898
2933

IR-270 X-SECTIONS 631 TO

FED. HWY. DIVISION	STATE	PROJECT	
2	OHIO		

226
332

FRANKLIN- COUNTY
FRA-270-11.59S

SEEDING

OVER WIDTH	TO YDS
358	
356	
392	

END AREA		VOLUME	
CUT	FILL	CUT	FILL
152	1076	4	
526	3945		
124	1054	6	
207	384		

634+00 — 738.80 — 0.28% — 0.32% — 12:1 — 4:1 — 2:1 — 240 220 200 180 160 — 750 740 790 780 770 760 750 740

634+00 — 738.84 — 2:1 — 12:1 — 4:1 — 4:1 — 12:1 — 2:1 — 160 180 200 220 240 — 750 740 790 780 770 760 750 740

2:1 — 8:1 — 8:1 — 2:1 — 790 780 770 760 750 740

633+00 — 740.12 — 4:1 — 4:1 — 12:1 — 2:1 — 240 220 200 180 160 — 750 740

633+00 — 759.08 — 2:1 — 12:1 — 4:1 — 4:1 — 12:1 — 160 180 200 220 240 — 750 740

785.96
634+00
741.6

785.97
633+00
742.4

2:1 — 8:1 — 8:1 — 2:1 — 790 780 770 760 750 740

150 100 50 ℄ 50 100 150

IR-270 X-SECTIONS @633 TO @634

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

227
332

FRANKLIN COUNTY
FRA-270-11.59S

SHEETING

LEAD WIDTH	LBS.
358	
3978	
358	
3978	

END AREA

CUT	FILL
104	10804
	452
138	10820
	537

VOLUME

CUT	F

635+00
750
740
240 220 200 4:1 4:1 180 12:1 160
2:1
738.52

636+00
750
740
160 12:1 180 4:1 4:1 200 220 240
2:1
1.80%
738.36
0.24%

790 780 770 760 750 740
8:1 8:1
2:1 2:1

635+00
750
740
240 220 200 4:1 4:1 180 12:1 160
2:1
738.56

785.85
636+00
740.9

635+00
750
740
160 12:1 180 4:1 4:1 200 220 240
2:1
738.60

790 780 770 760 750 740
8:1 8:1
2:1 2:1

785.79
635+00
741.1

150 100 50 ℄ 50 100 150

IR-270 X- SECTIONS @ 635 TO @

IND. NO. DIVISION	STATE	PROJECT	
2	OHIO		

228
332

FRANKLIN COUNTY
FRA-270-11.59 S

SEEDING
END AREA
VOLUMES
CUT FILL CUT FILL

638+00
750
740
240 220 200 4:1 4:1 180 12:1 160
737.84

638+00
750
740
160 12:1 4:1 4:1 200 220 240
Plug. 739+20 190' Rt.
735.00
-2.30%
-1.80%
30"-12" Conduit
Ex. 12" Field Tile
736.2

790
780
770
760
750
740
2:1
8:1
8:1
2:1
358
3978
190 1108

785.07
638+00
739.5

637+00
750
740
240 220 200 4:1 4:1 180 12:1 160
738.08

637+00
750
740
160 12:1 4:1 4:1 220 240
736.80

790
780
770
760
750
740
2:1
8:1
8:1
2:1
358
3978
144 1014
619 909
463 404

785.81
637+00
740.0

150 100 50 ℄ 50 100 150

IR-270 ⊕ SECTIONS ⊕ 638 TO 637

SHT. NO.	STATE	PROJECT	
2	OHIO		

229
332

FRANKLIN COUNTY
FRA-270-11.59S

SEEDING

END WIDTH	CU YDS
360	
4000	
3999	

END AREA		VOLUME	
CUT	FILL	CUT	FILL
		196	1190
		194	1018
		722	418
		711	6037

640+00
784.59
739.5

639+00
784.83
739.6

737.20
737.60
734.60
734.80

-0.40%
-0.24%

Ex. 12" Field Tile
to be Abandoned

Ex. 12" Field Tile
to be abandoned

IR-270 X-SECTIONS 639 TO 640

FED. AID PROJECT	STATE	PROJECT	
2	OHIO		

230
332

FRANKLIN COUNTY
FRA-270-11.59S

SEEDING
EXC. WIDTH | SQ. YDS.

END AREA | VOLUME
CUT | FILL | CUT | FILL

642+00
750
740
2:1
4:1
4:1
12:1
200
180
160
73640

642+00
750
740
2:1
12:1
3:1
3:1
160
180
200
220
734.20

790
780
770
760
750
740
2:1
8:1
8:1
2:1

342
112 11546

784.11
642+00
737.4

641+00
750
740
2:1
12:1
4:1
4:1
12:1
200
180
160
736.80

Ex 42" Conc. Pipe
733.64
612128.772
733.24
693139.1012

641+00
750
740
2:1
12:1
3:1
3:1
160
180
200
734.40

3878
350
3978
537 11767
178 11008
693 11107

784.35
641+00
739.3

150
100
50
℄
50
100
150

IR-270 & SECTIONS 64 P TO 642

DIST. NO. DIVISION	STATE	PROJECT	
2	OHIO		

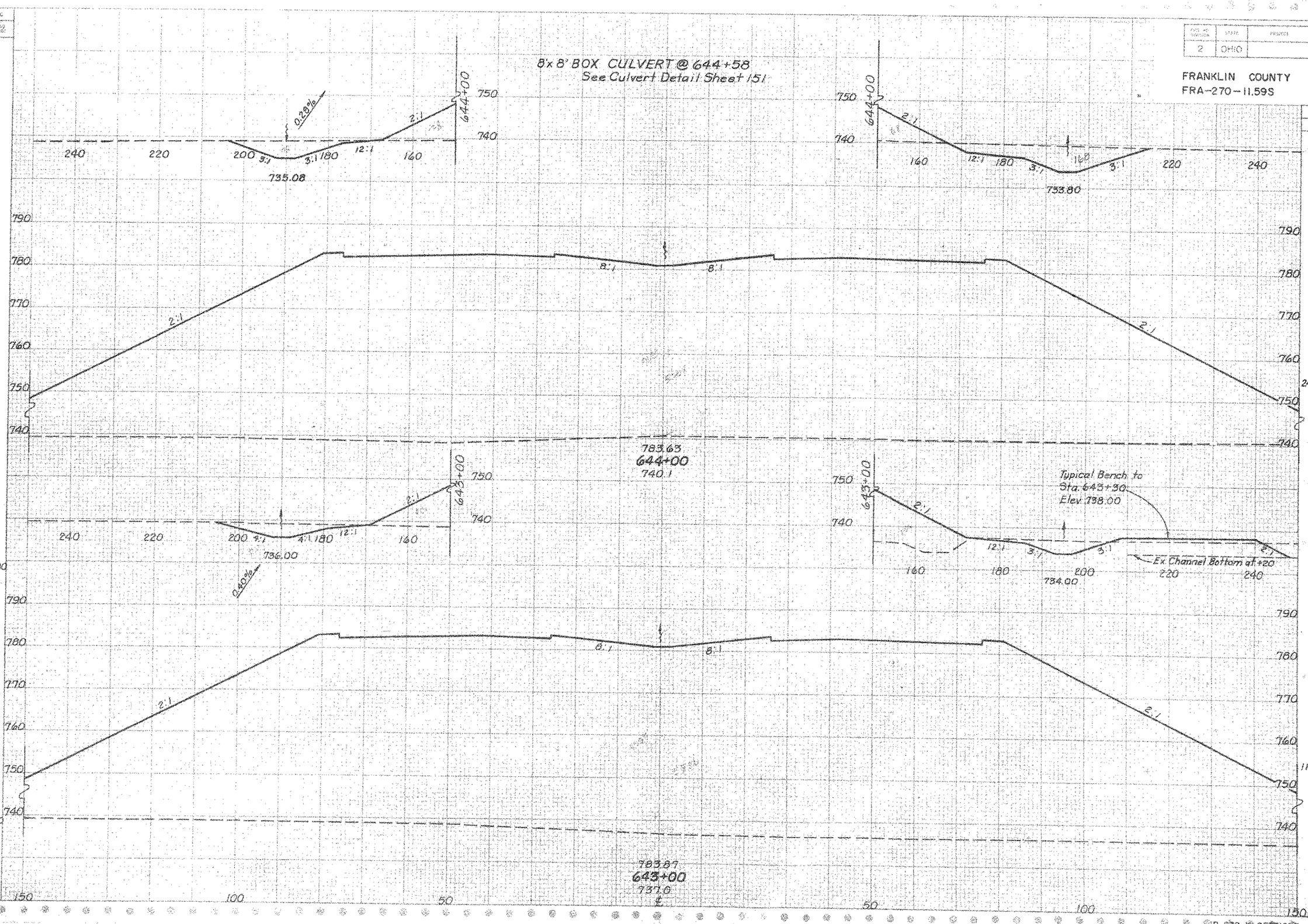
231
332

FRANKLIN COUNTY
FRA-270-11.59S

8'x8' BOX CULVERT @ 644+58
See Culvert Detail Sheet 151

SEEDING
EXIT WIDTH | SQ. YD.

	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
+1				
248	10734			
667	4141			
112	1628			
415	4291			



IR-270 X-SECTIONS 643 TO 644

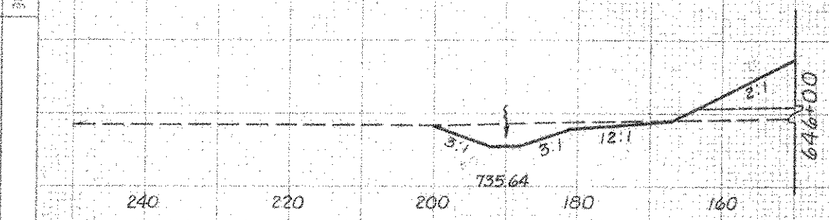
FED. HIG. DIVISION	STATE	PROJECT	
2	OHIO		

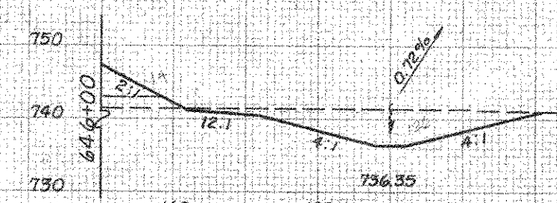
232
332

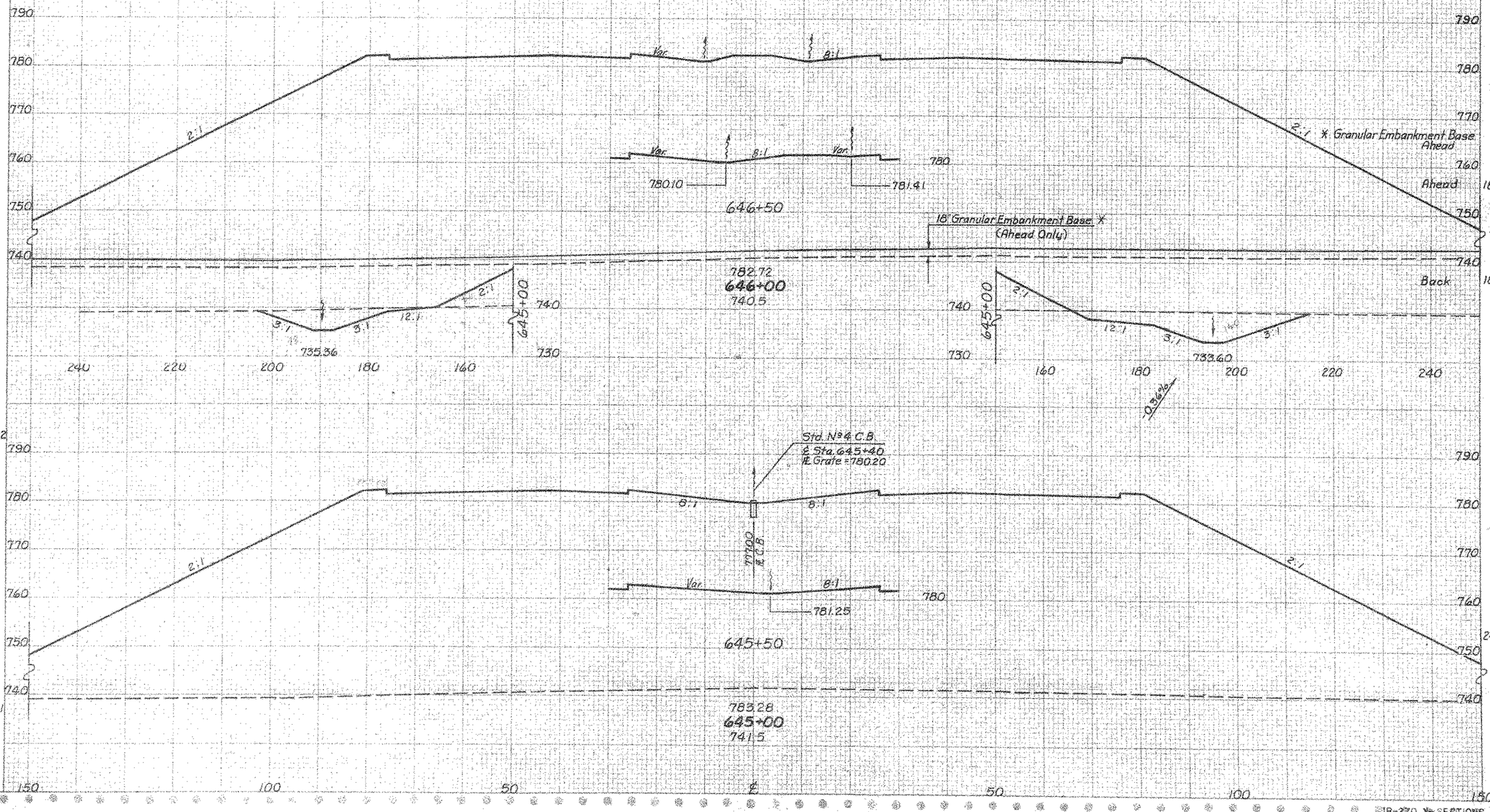
FRANKLIN COUNTY
FRA-270-11.59S

SEEPING

CAT. WIDTH	SQ. FT.
362	
4022	
4011	







END AREA		VOLUME	
CUT	FILL	CUT	FILL
488X			
Ahead		180	9810
Back		180	10298
		778	3815
		240	10306
		904	7894

150 100 50 ℄ 50 100 150

TR-270 X-SECTIONS 645 TO 646

FED. RD DISTRICT	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY
FRA-270-11.59S

SEEDING

ENG WIDTH	SQ YDS
92529	624+06 to 648+25
1119	647+70 to 648+25

BRIDGE LIMITS 647+69.75 to 649+73.25

647+70 = 647+50

Std. No 2-2-8 C.B.
℄ Sta. 647+38
Top Grate = 778.78

℄ of Ditch @ 647+38
Elev. 776.80

℄ 776.89
℄ 776.54
℄ C.B.
775.50
774.03
89-15" @ 1.00% @ 647+38
772.6
70-15" @ 50.0%
See Drainage Detail
18" Granular Embankment Base *

781.47
647+50
738.5

781.94
647+00
738.6

719.25

℄ 777.00
℄ 777.10
℄ 772.45
℄ 771.35
℄ 739.08
℄ 740.00
℄ 742.85
℄ 741.07

735.92
736.06
737.43
737.07

0.28%
0.28%
17.00%
16"-15" @ 0.00%
0.12%

2:1
3:1
12:1
4:1

Earthwork Quantity
624+06 to 648+25

* 18" Granular Embankment Base
646+00 to 648+25
Total to Sub Summary

Earthwork Quantity
647+70 to 648+25

Abutment Section @
647+50 = 647+70

ENG AREA CUT	FILL
	102
497*	
148 9872	
	11
479*	
148 9872	
484*	
190 10128	

362
804
2011
4022

IR-270 X-SECTIONS 647+50

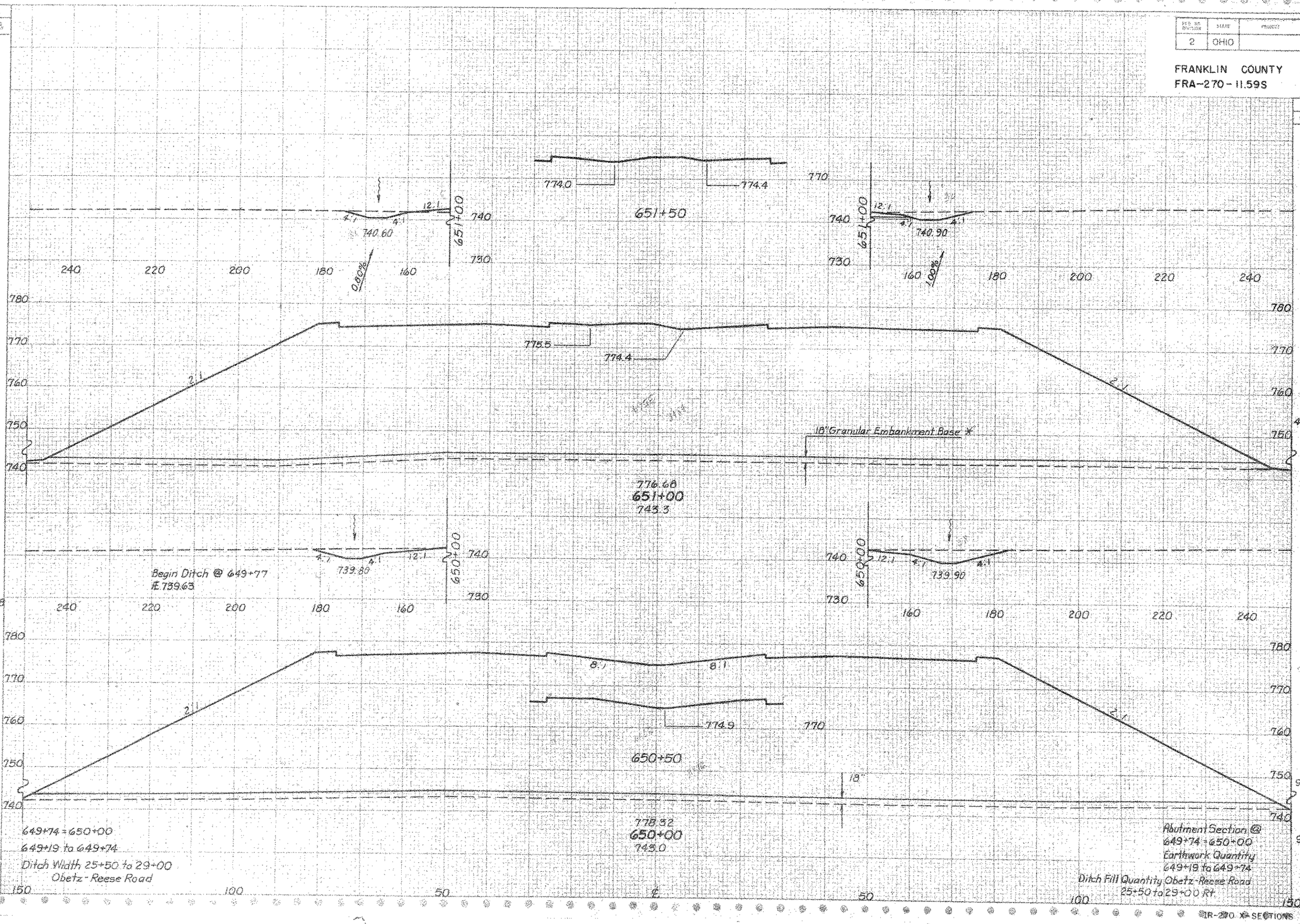
FED. NO. SECTION	STATE	PROJECT	
2	OHIO		

234
332

FRANKLIN COUNTY
FRA-270-11.59S

SEEDING
END WIDTH | SQ. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL



314			
3578			
330	953	96	7646
330	929	96	7642
	0	48	7051

FED. ROAD DIV. NO.	STATE	PROJECT	
2	OHIO		

235
332

FRANKLIN COUNTY
FRA-270-11.59S

	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
* 18" Granular Embankment Base 649+19 to 653+00 Total to Sub Summary				5707*
Ahead	52		6134	
* Granular Embankment Base Back				410*
Back	52		5724	
				5558
				2313 2253
				418*
	74		6434	
				585*
				226 4977

SEEDING

END WIDTH	SQ. YDS.
	289
	3289
	303
	3428

0.30%
4:1
742.20
653+00
740
730
240 220 200 180 160
780 770 760 750 740
8:1
2:1
12:1
772.87
653+00
745.5
0.20%
742.90
1.00%
18" Granular Embankment Base *
(Back Only)
652+00
741.40
772.61
774.83
652+00
743.0
18"
150 100 50 ℄ 50 100 150

TR-270 X-SECTIONS 652 TO 653

2 | OHIO

FRANKLIN COUNTY
FRA-270-11.59S

536
332

SHEDING

END AREA		VOLUME	
CUT	FILL	CUT	FILL
		70	4174
			289
		86	4460
		44	5432

656+00
766.99
745.5

655+00
768.95
746.1

654+00
770.91
744.5

IR-270 X-SECTIONS 654 TO

SEC. NO.	STATE	PROJECT	
2	OHIO		

237
332

FRANKLIN COUNTY
FRA-270-11.59S

SEEDING

END WIDTH	SQ. YDS.
216	2428
221	2522
233	2683

END AREA		VOLUME	
CUT	FILL	CUT	FILL
44	2760	152	10111
38	3186	122	8933
28	3798	181	11765

659+00 — 761.11 — 745.7
658+00 — 765.07 — 745.8
657+00 — 765.03 — 745.1

744.00 · 744.70 · 743.70 · 743.40 · 744.10 · 744.40 · 744.64

Std. No. 4 C.B.
℄ Sta. 658+00
℄ Grate = 760.21

756.37 · 756.50 · 760.65 · 756.16

84'-15" @ 0.40%

See Drainage Detail

23'-15" @ 50.0%

8'-15" @ 0.00%

8:1 · 2:1 · 4:1 · 12:1

IR-270 X-SECTIONS 657+10 TO 659+90

FED. AID PROJECT NO.	STATE	PROJECT	
2	OHIO		

238
332

FRANKLIN COUNTY
FRA-270-11.59S

SEEDING

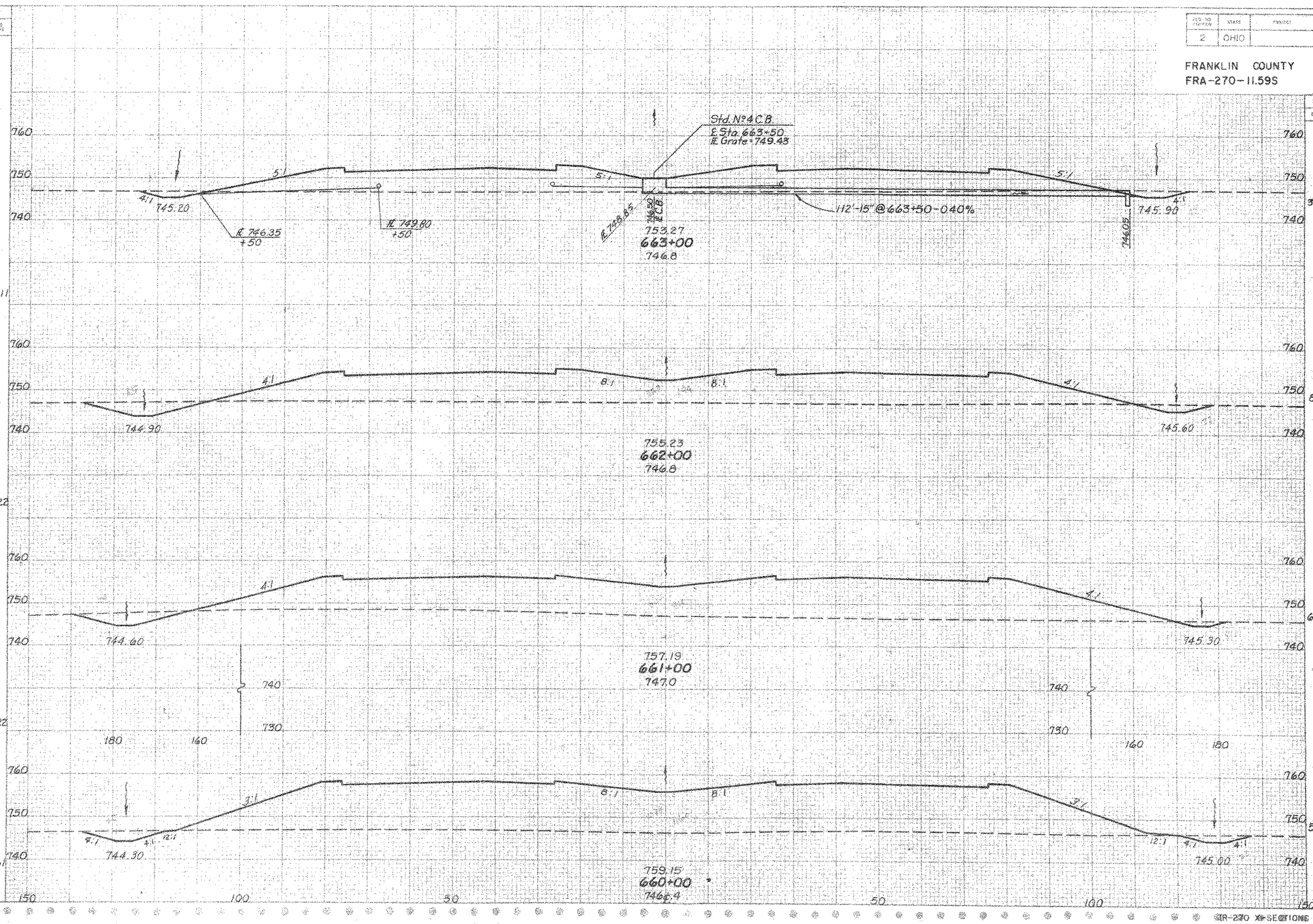
STD. SLOPE	DS

END AREA

CUT	FILL

VOLUME

CUT	FILL

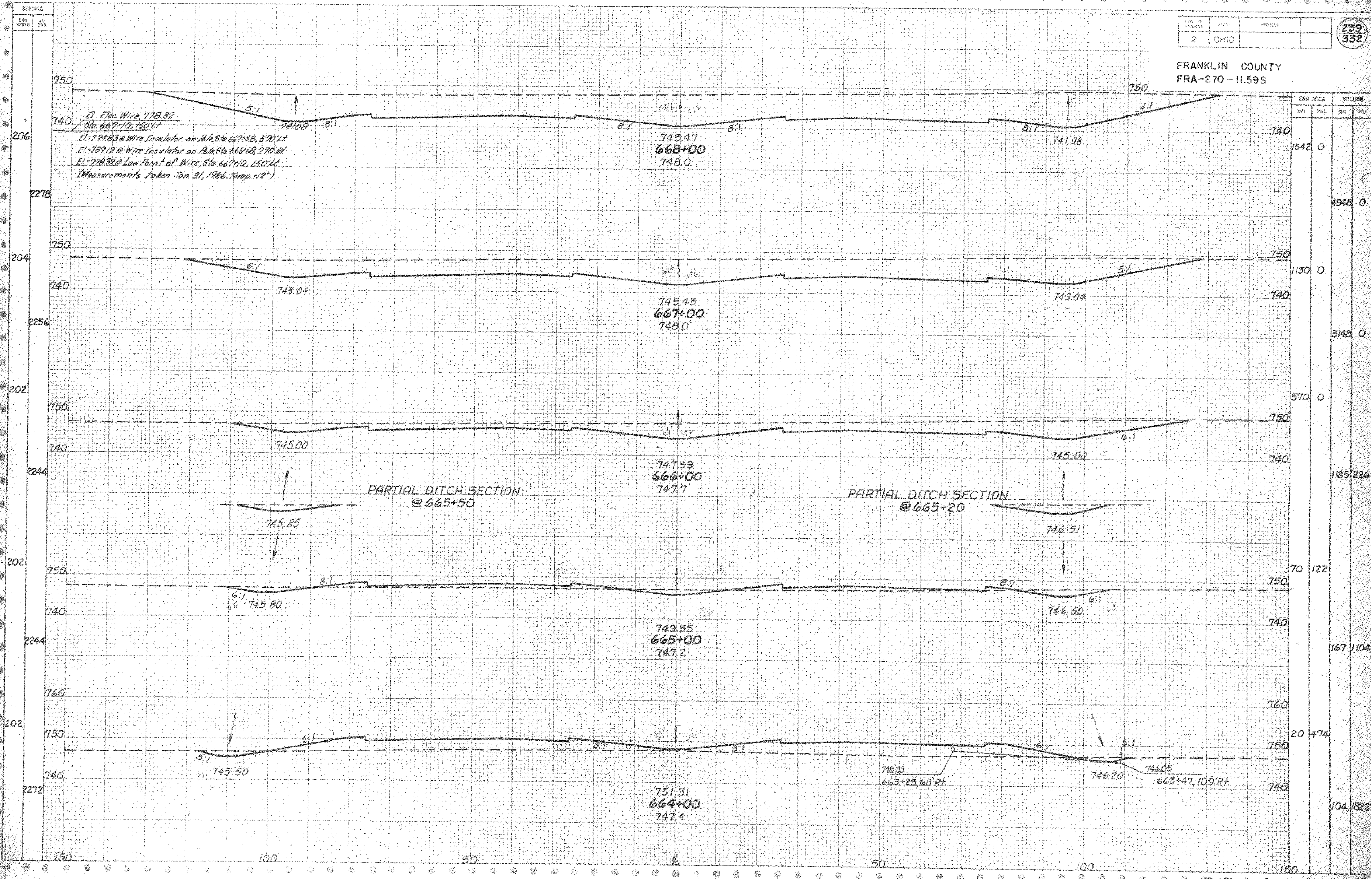


IR-270 X-SECTIONS 660 TO 66

	STATE	PROJECT	
2	OHIO		

239/332

FRANKLIN COUNTY
FRA-270-11.59S



SHEET NO.	STATE	PROJECT	
2	OHIO		

240
332

FRANKLIN COUNTY
FRA-270-11.59S

SLOPINGS END WIDTH	SLOPINGS SQ. FDS.
192	1663
207	2294
206	2289
206	2278
204	2278

750
740
730

2:1
Variable
732.71
8:1
4:1
4:1
8:1
735.43
672+75
746.8
733.68
8:1
733.04
5:1

750
740
730

Ditch section is 2' wide with 2:1 slopes @ 72+25
18" Dumped Rock
2.5:1
12"
4.60%
Invert of 2' Ditch
733.91
8:1
736.30
672+00
747.1
734.55
733.91

750
740
730

3:1
735.37
8:1
4:1
4:1
8:1
737.76
671+00
748.7
736.01
735.37
8:1
8:1
736.38

PARTIAL SECTION @ 670+50

750
740
730

3.5:1
737.16
8:1
8:1
739.55
670+00
751.0
736.80
737.16

750
740
730

4:1
8:1
739.12
8:1
8:1
8:1
741.51
669+00
749.1
739.12
3:1

150 100 50 50 100 150

END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
3102	0		
		3514	0
3028	0		
		1180	0
2982	0		
		1059	0
2990	0		
		9637	0
2214	0		
		6956	0

IR-270 X-SECTIONS 669 TO 672+75

SHEET NO.	STATE	PROJECT	
2	OHIO		

241
332

FRANKLIN COUNTY
FRA-270-11.59 S

SEEDING

	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
209				
813	3518	0		
	4554	0		
209	3508	0		
2317	2744	0		
208	3374	0		
729	9206	0		
207	3254	0		
1108	5885	0		

750
740
730

2:1
8:1
4:1
730.81
731.87
731.46
733.85
675+35
746.5
℄ Groveport Road
Limit of Section
731.00
732.20
731.56
733.95
675+00
746.3
℄ Groveport Road
731.76
732.65
732.01
734.40
674+00
746.9
℄ Groveport Road
732.14
733.20
732.54
734.95
675+25
748.3
2.5:1

Ditch Section is 2' wide with 4:1 slopes.
12"
18" Dumped Rock
Invert of 2' wide ditch
731.71
PARTIAL SECTION @ 674+75

150 100 50 0 50 100 150

IR-270 X-SECTION 673+25 TO 675+35

FED. ROAD DIVISION	STATE	PROJECT	
2	OHIO		

242
332

FRANKLIN COUNTY
FRA-270-11.59S

SEEDING

	CUT	FILL
219		
2394		
212		
1172		
210		
1513		
209		
1161		

Ex.8"Tile
742.30
+26

678+00
200 180 160
740
730
750
2:1
04
730.25
+26
729.38
8:1
677+00
733.11
678+00
745.6
140 180 200
730.72
3:1
729.92
676+50
733.39
677+00
746.7
731.00
Limit of Section
12:1
2.5:1
Std. №4C.B.
℄ Sta. 676+25
℄ Grate = 730.62
730.19
Inlet @ 676+25
℄ 12"RCP
675+85
738.58
676+50
746.8
730.54
4:1
731.43
731.32
738.71
675+85
746.9
731.14

END AREA CUT	END AREA FILL	VOLUMES CUT	VOLUMES FILL
3644	0		
3544	0		
3650	0		
3776	0		
3668	0		
3720	0		
3574	0		
3569	0		

IR-270 X-SECTION 675+85 TO 678+00

FED. AID SECTION	STATE	PROJECT	
2	OHIO		

243
332

FRANKLIN COUNTY
FRA-270-11.59S

SEEDING

END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
246		4130	0
2706		4315	0
241		3600	0
2617		3905	0
230		3454	0
2539		2904	0
227		3514	0
2478		3293	0

750
740
730

2:1 8:1 8:1 8:1 6:1 3:1

727.42
731.99
682+00
742.4
729.60

727.86
732.27
681+00
744.1
729.88

728.30
732.55
680+00
743.6
730.16

728.84
732.83
679+00
744.3
730.44

674+04.00
175' Lt.
Top 745.8
8" Stub Inv. 721.33
Inv. 720.01

755.50 Ø MH
L 125.65'
L 320.48'

Std. N°2 M.H.
℄ Sta. 680+25
Top Grate = 729.81

Top 745.9
175' Rt.
8" Stub Inv. 721.07
Inv. 719.73

350'± 24" RCP Sanitary Sewer @ 0.08%

150 100 50 50 100 150

IR-270 X-SECTION 679+00 TO 682+00

FED. ROAD DIVISION	STATE	PROJECT	
2	OHIO		

244
332

FRANKLIN COUNTY
FRA-270-11.59S

SEEDING
LAND WIDTH | SQ. YDS.

	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
189				
241	4074	0		
2778	4466	0		
259	15756	0		
286	4042	0		
256	4804	0		
281	3952	0		
275	4911	0		
250	4100	0		
	5241	0		

Ahead
Back
Limit of Section Back
Limit of Section Ahead
Std. No. 2-2-B C.B.
℄ Sta. 686+25.00
Top Grate = 727.88
Std. No. 4 C.B.
℄ Sta. 684+45
Top Grate = 728.32
E.C.B.
2:1
8:1
6:1
5:1
4:1
3.5:1
1.0%
0.30%
0.50%
2.78%
0.28%
726.08
728.26
723.21
730.87
686+00
744.5
728.00
734.00
726.38
730.6
730.0
731.15
685+00
743.9
728.76
726.68
724.29
731.43
684+00
744.4
729.04
726.98
731.71
683+00
745.0
729.32

IR-270 X-SECTIONS 683+00 TO 686+00

FED. AID DIVISION	STATE	PROJECT	
2	OHIO		

245
332

FRANKLIN COUNTY
FRA-270-11.59S

SECTIONS AREA WIDTH	SECTIONS AREA CUT	SECTIONS AREA FILL	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
162						
32						
			86	176		
			3	94		
			125	486		
312						984
	1469					567
217					938	126
	1253					2842
234						2131
						2
175						5272
						2
189					3568	0
	1050					7076
						0

End Width Forward = IR 688+00 Lt.
End Width Forward = IR 688+00 Rt.
End Width Back = IR 688+00 + Ramp W 688+00
Var.
Limit of Section
Limit of Section
Limit of Section
Left End Area Forward = IR 688+00 Lt.
Right End Area Forward = IR 688+00 Rt.
End Area Back = IR 688+00 + Ramp W 688+00
730.31
688+00
728.4
730.45
687+50
733.2
730.59
687+00
734.7
730.73
686+50
741.0
Std. N° 2-2-B C.B.
℄ Sta. 687+50
ℓ Grate 727.50
Bench 728.00
Bench 727.00
730.00 @ 687+25
725.73 @ 687+01.72
Top Forwall Wall of Slab Culvert
20' SINGLE SPAN - REINFORCED SLAB CULVERT
@ 686+90
See Culvert Detail Sheet #155

IR-270 X-SECTIONS 686+50 TO 688+00

SEC. NO.	STATE	PROJECT	
2	OHIO		

246
332

FRANKLIN COUNTY
FRA-270-11.59 S

SEEDING		END AREA		VOLUME	
END WIDTH	SQ. YDS.	CUT	FILL	CUT	FILL
74	678	2190	0	7119	0
48	506	1654	0	5730	0
43	472	1440	0	4319	0
42	411	892	0	1657	174

729.19
692+00 RT.
745.9

729.47
691+00 RT.
745.5

729.75
690+00 RT.
744.8

730.03
689+00 RT.
739.2

Limit of Section

Std. N° 2 M.H.
118' Rt. Sta. 691+00
Top Grate = 732.50

230'-48" @ 0.10%

Note:
IR-270 X-Sections split Right & Left from 689+00 to 712+00
IR-270 X-Sections 689+00 Left begin Sheet N° 252.
IR-270 X-Sections 713+00 begin Sheet N° 258.

IR-270 X-SECTIONS RT. 689+00 TO 692+00

FED. ROAD DIVISION	STATE	PROJECT	
2	OHIO		

241
332

FRANKLIN COUNTY
FRA-270-11.59S

SECTIONS EXC. WIDTH	SECTIONS EXC. DEPTH
47	261
47	594
60	756
76	956
96	944

END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
696+50 2420	0		
		4531	0
2474	0		
		5044	0
2410	0		
		5059	0
2482	0		
		9941	0
2686	0		
		9400	0

728.22
696+50 RT.
726.83
726.8
Limit of Section

Std. No. 4 C.B.
℄ Sta. 696+00
℄ Grate = 725.27
722.90
721.45
719.50 ℄ E.C.B.
726.26
696+00 RT.
747.2
722.40 D-1
721.70
96'-18" @ 0.03%
722.97
℄ 722.33
Std. No. 2-3 C.B.
96' Rt. Sta. 696+00
Top Grate = 726.00
℄ Window = 725.50
722.9 ℄ E.C.B.
Limit of Section

728.40
695+00 RT.
746.6
724.3
Limit of Section

728.63
694+00 RT.
746.5
724.2
Limit of Section

728.91
693+00 RT.
746.3
722.0
717.80
Limit of Section

℄ 50 100 150 200 250

IR-270 X-SECTIONS RT. 693+00 TO 696+50

SEC. NO. DIVISION	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY
FRA-270-11.59 S

SECTIONS		END AREA	
END WIDTH	AT END	CUT	FILL
		1792	0
61	1017		855
122		2826	0
	1528		1197
153		3640	0
	814		657
Ahead 140		Ahead 3464	0
Back 50		Back 1968	0
	258		55
Ahead 43		Ahead 1874	0
Back 43		Back 2322	0
	250		43

728.63
700+00 RT.
746.2
729.69
727.0
Limit of Section

728.40
699+00 RT.
746.9
729.40
726.5
Limit of Section

728.26
698+00 RT.
746.9
Std. N°4 C.B.
℄ Sta. 698+00
IE Grate = 725.27
4" U.D
721.10 I.E. C.B.
721.75
722.00
106'-18" @ 0.50%
Std. N°2-3 C.B.
106' Rt. ℄ Sta. 698+00
Top Grate = 726.00
720.67 I.E. C.B.

728.27
697+50 RT.
746.9
726.83
Limit of Section Back
Limit of Section Ahead

728.21
697+00 RT.
746.9
726.87
727.3
Limit of Section Ahead
744.5
Limit of Section Back

IR-270 X-SECTIONS RT. 697+00 TO 7

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

249
332

FRANKLIN COUNTY
FRA-270-11.59S

BEGIN				END AREA		VOLUME	
LANE WIDTH	TO END			CUT	FILL	CUT	FILL
52		End Width Forward = IR 704+00 +Ramp V 704+00	End Area Forward = IR 704+00 +Ramp V 704+00	0	2373		
26		End Width Back = IR 704+00 Rt.	End Area Back = IR 704+00 Rt.	0	1586		
		Limit of Section					
		See Ramp V X-Sections for Details					
344		729.75 704+00 RT. 711.0				0	5315
36		730.10		0	1448		
444		729.47 703+00 RT. 710.8				0	5630
44		729.19 702+00 RT. 713.0		0	1556		
		Limit of Section					
528		727.5				411	4444
51		728.91 701+00 RT. 741.4				222	844
622						3750	5682

IR-270 X-SECTIONS RT 701+00 TO 704+00

2	OHIO		

250
332

FRANKLIN COUNTY
FRA-270-11.59S

	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
90				
989				
88				
967				
86				
944				
84				
756				

730.87
708+00 RT.
716.0

731.44
717.1
8:1
4:1
4.5:1
2:1
2:1

0 1788

730.59
707+00 RT.
716.4

731.09
717.4
8:1
4:1
5:1
2:1

0 6656
0 1804

730.31
706+00 RT.
716.7

Std No 4 C.B
℄ Sta. 706+00
℄ Grade = 727.33
725.61
149'-15" @ 1.80%
732.00
℄ C.B.

730.81
717.7
719.32
6:1
2:1

0 7374
0 2176

730.05
705+00 RT.
711±.5

730.57
718.0
8:1
4:1
5:1
2:1
2:1

Limit of Section

0 8596
0 2466
0 8961

50 100 150 200 250

IR-270 X-SECTIONS RT. 705+00 TO 708+00

2	OHIO	PROJECT	

251
332

FRANKLIN COUNTY
FRA-270-11.59S

Note: Sections on IR 270
713+00 to 726+00
follow Sections
688+00 Lt. to 712+00 Lt.

	END AREA		VOLUME	
STA	CUT	FILL	CUT	FILL
712+00	0	1814		
711+00			0	6935
710+00	0	1930		
709+00	0	1916	0	7122
			0	7030
	0	1880		
			0	6795

731.99
712+00 RT.
717.7

731.71
711+00 RT.
717.4

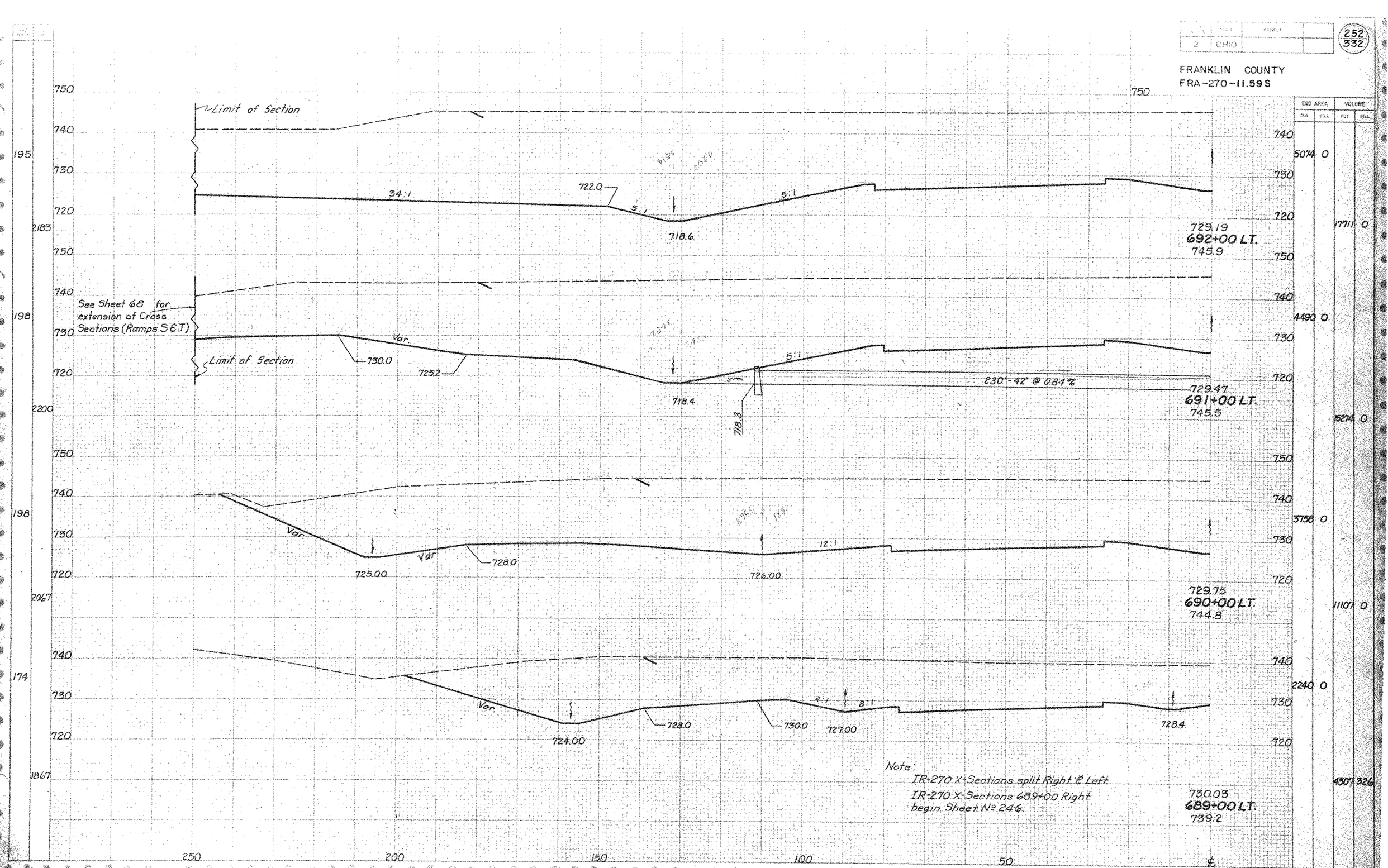
731.43
710+00 RT.
716.4

731.15
709+00 RT.
716.8

Limit of Section
See Samson Sections for Details

℄ Samson Frontage Road

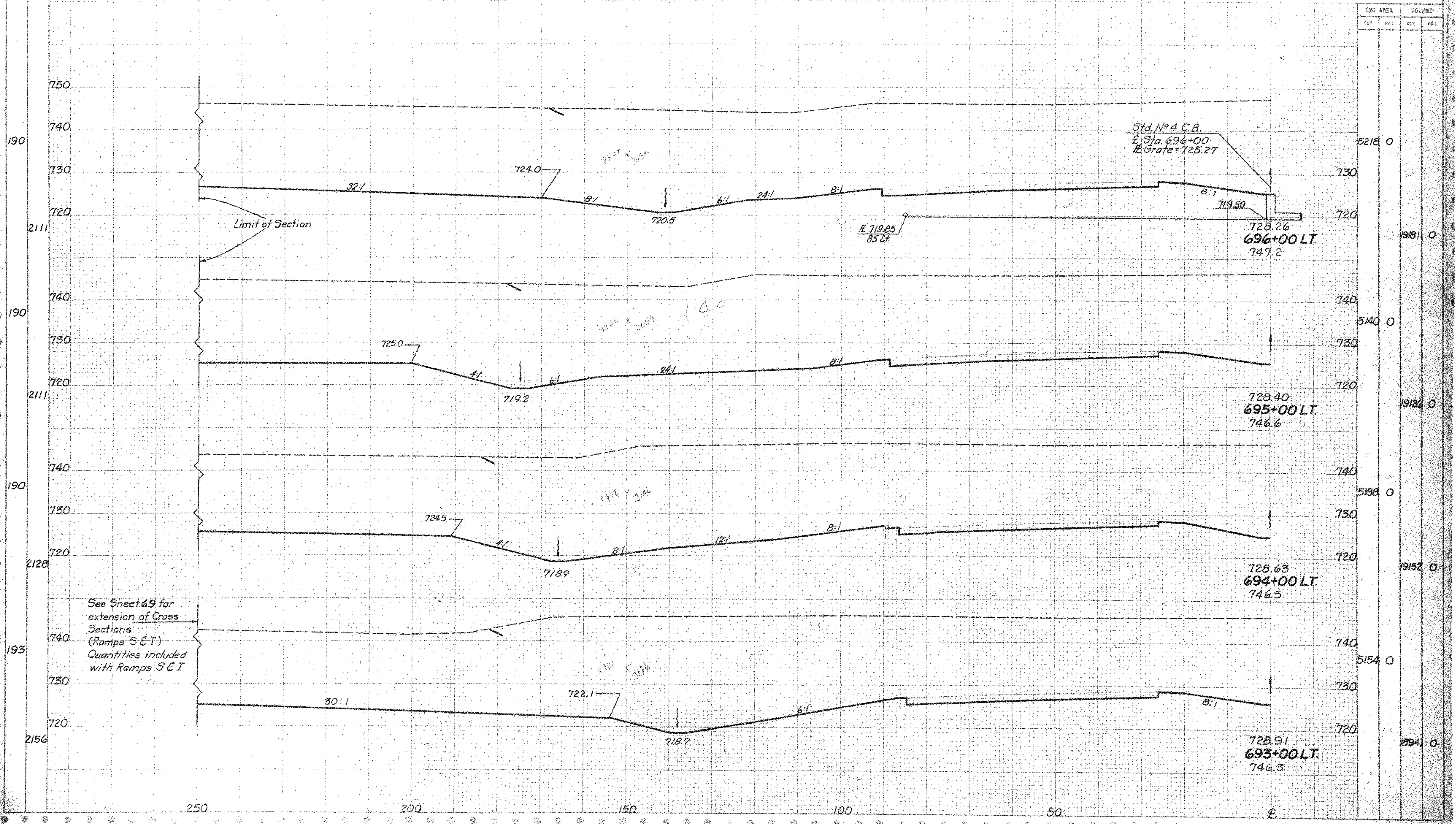
FRANKLIN COUNTY
FRA-270-11.59S



Note:
IR-270 X-Sections split Right & Left.
IR-270 X-Sections 689+00 Right begin Sheet No 246.

2	OHIO		

FRANKLIN COUNTY
FRA-270-11.59 S



See Sheet 69 for extension of Cross Sections (Ramps S & T) Quantities included with Ramps S & T

STATE	STATE	PROJECT		254
2	OHIO			332

FRANKLIN COUNTY
FRA-270-11.59S

Limit of Section Ahead
Limit of Section Back
3:1
12:1
4:1
6:1
8:1
721.40
750
740
730
720
710
113
64
672
Ahead
Back
END AREA CUT
END AREA FILL
VOLUME CUT
VOLUME FILL
Ahead 3868
Back 2868
1044 0
728.63
700+00 LT.
746.2

Limit of Section Back
Limit of Section Ahead
2:1
5:1
721.20
57
57
628
Ahead 2770
Back 3404

Limit of Section Ahead
Limit of Section Back
2:1
4.5:1
8:1
720.90
56
56
672
Ahead 3316
Back 2640
728.40
699+00 LT.
746.9

Limit of Section Back
Limit of Section Ahead
See Sheet 70 for extension of Cross Section (Ramps S & T
30:1
4:1
6:1
726.0
720.10
65
190
211
Ahead 2842 0
Back 5012 0
730
726.88
727.21
728.22
697+50 LT.
8:1
4:1
728.26
698+00 LT.
746.9
728.21
697+00 LT.
746.9
1015 2 0
1694 1 0

250 200 150 100 50 ℄

IR-270 X-SECTIONS LT. 697+00 TO 700+00

2	OHIO			255/332

FRANKLIN COUNTY
FRA-270-11.59S

Limit of Section
Note: For Seeding Quantity
Lt. of W.B. Lane
704+00 to 714+00
See Ramp X-Section
Sheet #65

Ahead
Back

704+00
730
720
330
280
725.5
24:1
6:1
722.3
8:1
8:1

703+00
750
740
730
720
710
330
280
24:1
24:1
727.5
722.0
725.36
60" 15°@ 0.40%
Inlet & Pipe @ 703+25
Std. No. 6 C.B.
79.5' Lt. & 703+25
Top Grate = 727.81
723.50 T.C.B.

702+00
730
720
710
750
740
730
500
280
12:1
7250
721.8

Limit of Section
750
740
730
720
12:1
724.2
6:1
721.6
8:1
8:1

729.75
704+00 LT.
711.0

729.47
703+00 LT.
710.8

729.19
702+00 LT.
713.0

728.91
701+00 LT.
741.4

	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
26				
254				
			0	3974
2811				
			3230	11252
252				
			1744	2100
2589				
			10344	5274
214				
			3842	748
2089				
			6393	1385
162				
			5010	0
1528				
			6441	0

250 200 150 100 50 ℄

IR-270 X-SECTIONS LT 701+00 TO 704+00

2	OHIO			256 / 332

FRANKLIN COUNTY
FRA-270-11.59S

	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
730.87 708+00 716.0	0	1392		
			0	7000
730.59 707+00 716.4	0	4695		
			0	1226
730.31 706+00 716.7	0	4274		
End Area Forward = IR 705+00	0	1082		
End Area Back = IR 705+00 + Ramp Y 705+00	0	4102		
			0	4959
730.03 705+00 711+.5				

Limit of Section
24:1
6:1
723.0
6:1
8:1

Limit of Sections
6:1
725.5
8:1

Std. No 4 C.B.
℄ Sta. 706+00
℄ Grate = 727.33
24:1
4:1
726.4
8:1
724.85
724.00
727.00 ℄ C.B.

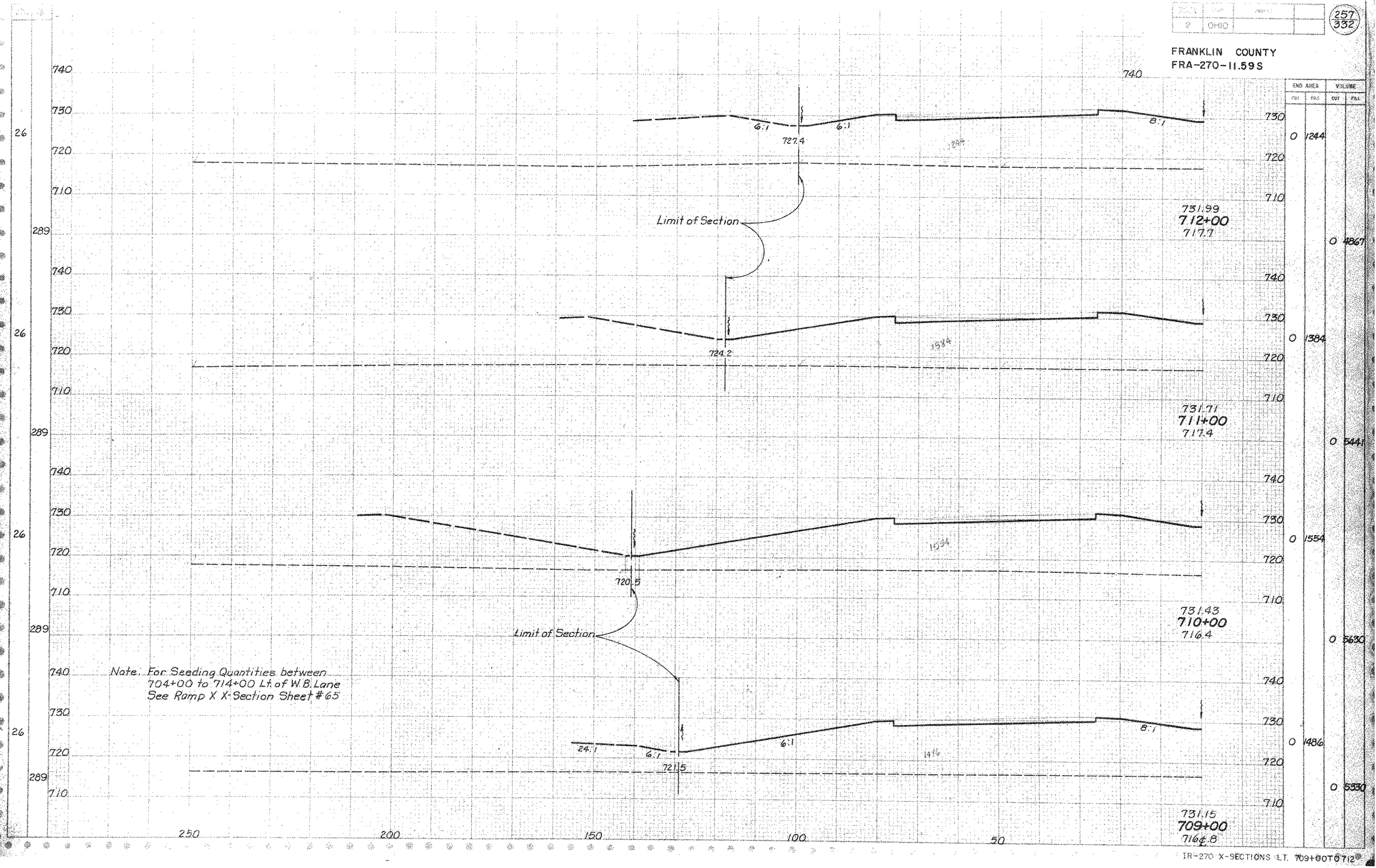
Limit of Sections
4:1
8:1
727.5
8:1

Note: For Seeding Quantities between
704+00 to 714+00 Lt. of W.B. Lane
See Ramp X X-Section Sheet # 65

IR-270 X-SECTIONS L.T. 705+00 TO 708

2	OHIO			257 / 332

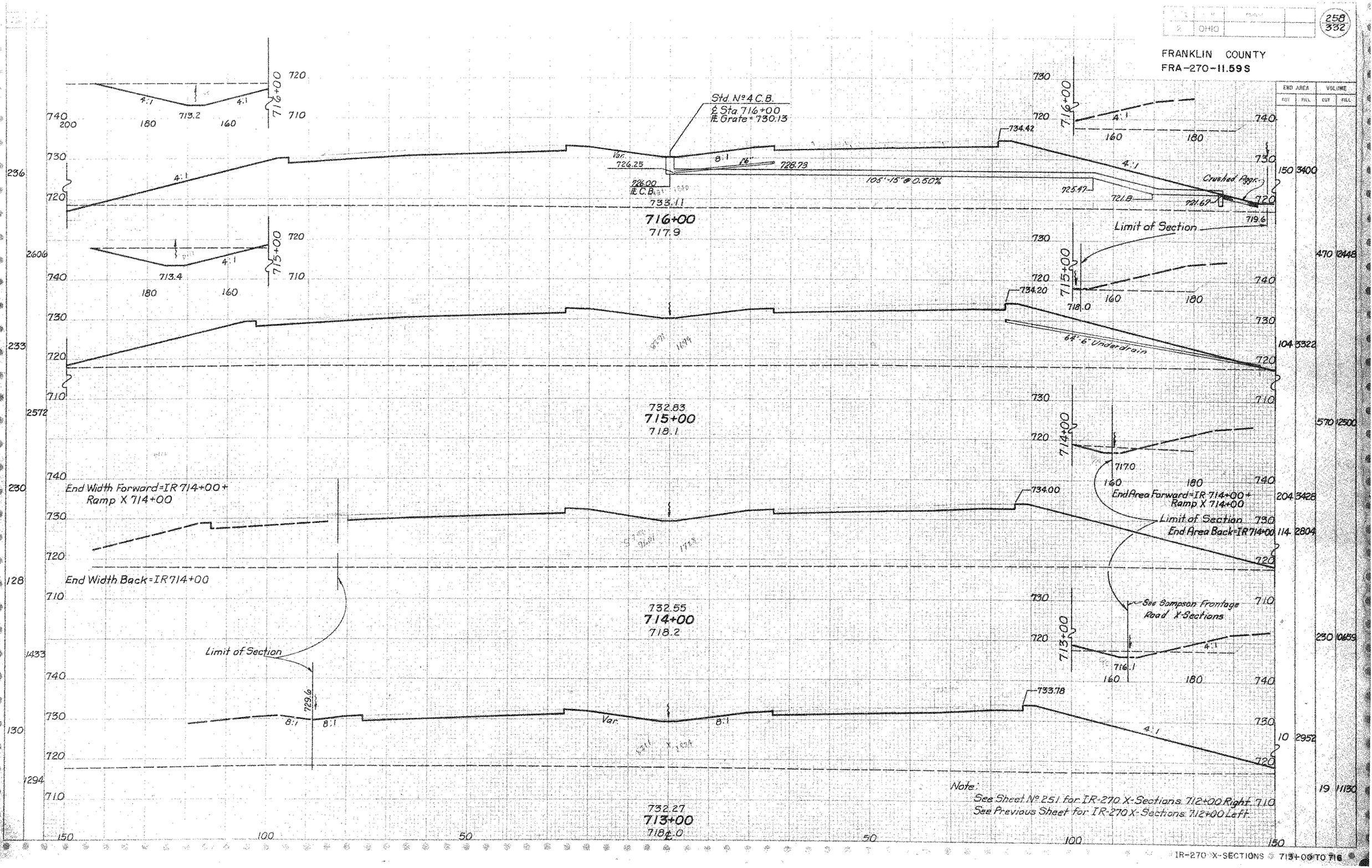
FRANKLIN COUNTY
FRA-270-11.59S



END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
0	1244		
		0	4867
0	1384		
		0	5441
0	1554		
		0	5630
0	1486		
		0	5330

Note: For Seeding Quantities between
704+00 to 714+00 Lt. of W.B. Lane
See Ramp X X-Section Sheet #65

FRANKLIN COUNTY
FRA-270-11.59S



FRANKLIN COUNTY
FRA-270-11.59S

	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
198				
	14	3262		
2272				70 12211
	24	3332		
211				
24.17				278 12322
224			126	3322
2533				504 12367
232			146	3356
2600				548 12511

740
730
720
710

720.0 — 6:1 — 4:1 — 8:1 — 8:1 — 725.29 — 4:1 — 6.5:1 — 725.0

734.23
720+00
718.4

Limit of Section

716.00 — 6:1 — 2:1 — 719+00 — 180 — 160

733.95
719+00
718.7

723.8 — 4:1

712.8 — 4:1 — 4:1 — 718+00 — 180 — 160

42" CULVERT @ 718+00 See Culvert Detail Sheet # 161

733.67
718+00
718.3

713.0 — 4:1 — 717+00 — 180 — 160

720.8 — 4:1

See Samson
Frontage Road

733.39
717+00
718.2

150 — 100 — 50 — 50 — 100 — 150

DIVISION	STATE	PROJECT	
2	OHIO		

260
352

FRANKLIN COUNTY
FRA-270-11.59S

	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
723+00				
722+00	418	2310	2070	8417
721+00	212	3356	1689	0354
720+00	419	2256		

723+00
750
740
180 160
3:1
730.00
1.00%
8:1
735.07
720.3
730
720
4:1
721.0
140 180 200
2:1
220
Water Level
October 24, 1964
118"
226
736.13
2.5:1
12:1
6:1
4:1
723.0

722+00
750
740
180 160
3:1
731.00
1.00%
8:1
735.85
730
720
721.0
160 180 200
2:1
18"
224
2.5:1
12:1
4:1
724.0

721+00
750
740
730
720
710
180 160
3:1
728.50
2.50%
6:1
8:1
734.79
718.8
730
720
160 180 200
2:1
Limit of Section
See Samson Frontage Road
735.57
4:1
724.50

720+00
750
740
730
720
710
150 100 50
734.51
716.6
730
720
50 100 150
4:1

209
209
2322
2317
208
2256

IR-270 X-SECTIONS 721+00 TO 723

2	OHIO			261 / 332

FRANKLIN COUNTY
FRA-270-11.59S

162308 649+19 to 726+00

EMO AREA		VOLUME	
CUT	FILL	CUT	FILL
		592405	517067

Earthwork Quantity
649+19 to 726+00
Total

740
730
720
718.80
2:1
8:1
8:1
2:1
24:1
2:1
718.90
736.81
726+00
722.2
730
720
710
£ Ditch @ 725+92
(Not required if adjacent Project Completed)

279 725+90 — 725+90 — 0 0

1550

279 725+00 to 725+40 — 725+00 to 725+40 — 172 2320

1240

279 Ahead

740
730
720
718.60
6" Rip Rap
737.01
735.95
725+00
722.6
721.75
730
720
186 2506

179 1011 Back

185 Ahead

730
720
725.0
736.69
735.63
724+50
721.8
722.3
730
720
64 2644

209 Back

1144

740
730
180
160
150
724+00
2.60%
740
730
60" CULVERT @ 724+50
See Culvert Detail Sheet # 162

203 2289

740
730
720
728.00
736.45
735.39
724+00
721.8
Limit of Section
See Culvert Detail
724.00 +13
717.64
722.8 Window
730
720
184 2560

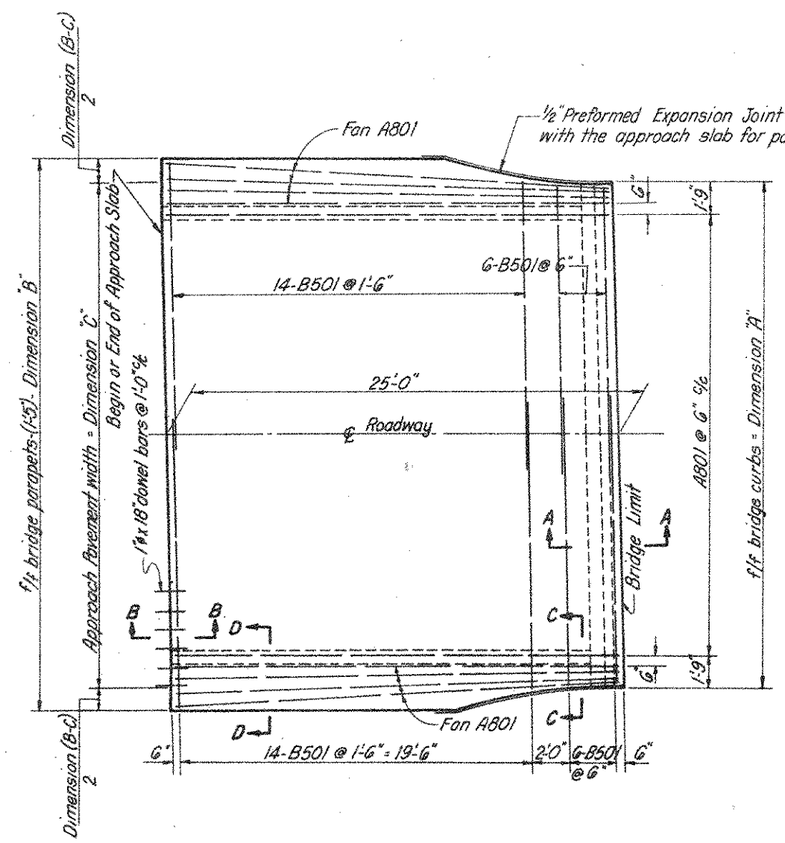
150 100 50 £ 50 100 150

276 3712
231 4769
230 4819
115 3019

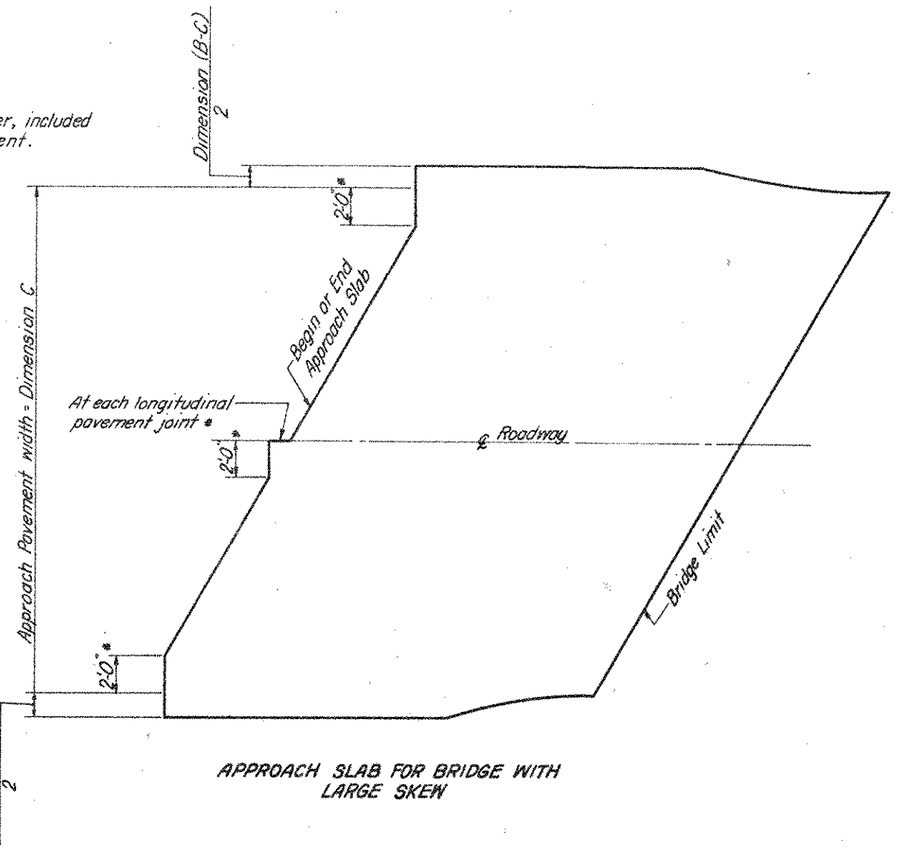
IR-270 X-SECTIONS 724+00 TO 726

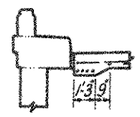
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY
FRA-270-11.59S.

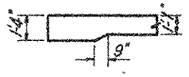


APPROACH SLAB FOR BRIDGE WITH LARGE SKEW

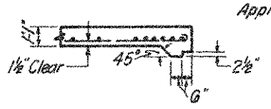




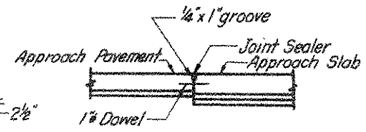
SECTION-C



SECTION-D



SECTION-A



SECTION-B

* 2'-0" for skews larger than 15°
0'-0" for skews 15° or less.

NOTE: Place additional A-bars in flared areas by maintaining the standard spacing along the wide end of the slab and fanning the bars in toward the bridge as directed by the engineer.

NOTE: For additional details see standard drawing AS-1-54. Revised 8-10-65

APPROACH SLAB					
REINFORCING STEEL LIST					QUANTITY
Mark	No.	Length		Shape	Conc. Sq. Yds.
A801	①	25'-7"		B	③
B501	40	②		S	24'-5" A801
1" dowels	④	1'-6"		S	

Quantities shown above are for one approach slab only.

① = $12\left[\frac{"A" - 3.5}{6}\right] + 9$

② = $\left[\frac{"B"}{2} + .7917\right]$ (Sec θ) − .167

③ = $\left[\frac{25\ ("B")}{9}\right] - 2$

④ = C

Dimensions "A", "B", & "C" to be in feet
θ = Angle of Skew

BURGESS & NIPLE LIMITED — CONSULTING ENGINEERS
COLUMBUS 12, OHIO

SPECIAL APPROACH SLABS

FRANKLIN COUNTY

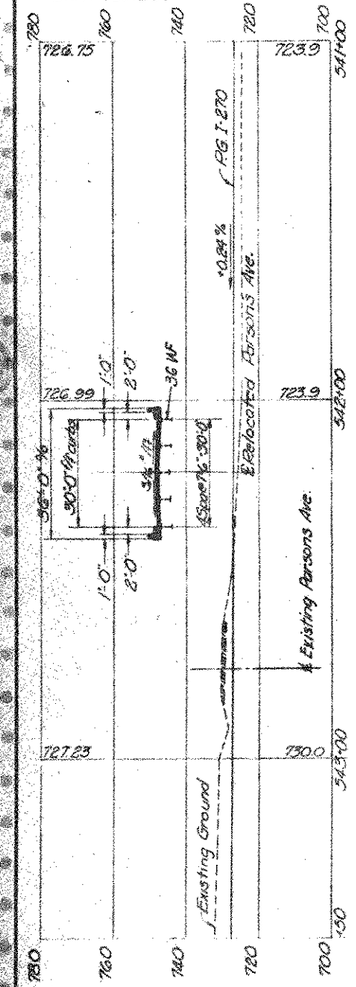
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	RE

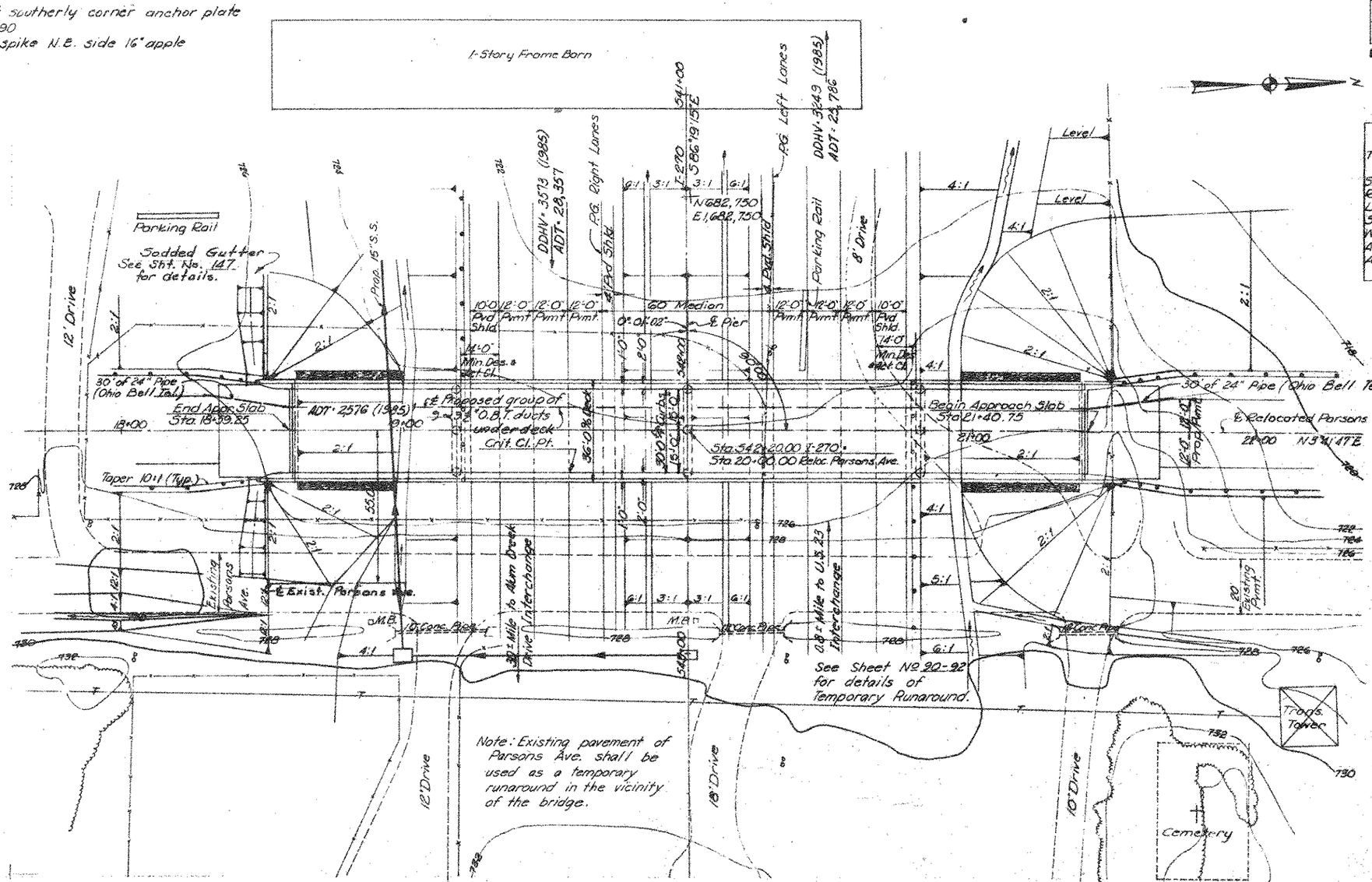
Bench Marks
℄ I-270 Sta 543+00 390' Rt. Most southerly corner anchor plate S.W. leg trans. tower Elev. 726.090
℄ I-270 Sta. 550+89 234' Rt. R.R. spike N.E. side 16" apple Elev. 730.867

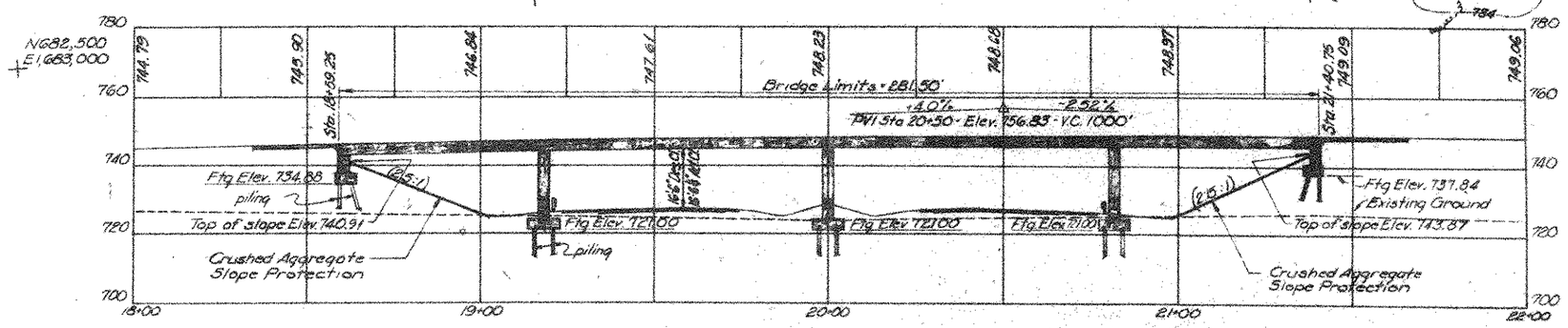
FED. HWY. DIVISION	STATE	PROJECT		263 332
2	OHIO			

FRANKLIN COUNTY FRA-270-11.59 S.

PROPOSED STRUCTURE
TYPE 4 Span cont. steel beam with reinforced conc. deck and substructure
SPANS: 37'-0", 81'-6", 81'-6", 37'-0" ℄ Brgs
ROADWAY: 30'-0" 7/f of 2'-0" safety curbs
LOAD FREQUENCY: CF-130(37)
SKEW: None
WEARING SURFACE: 1" Monolithic conc.
ALIGNMENT: Tangent
APPROACH SLAB: Special (25' long)







PILING - 12" reinforced cast-in-place
Estimated average pay length:-
40 ft. - rear abutment
45 ft. - forward abutment
30 ft. - piers 1, 2 and 3

BURGESS & NIPLE LIMITED — CONSULTING ENGINEERS
COLUMBUS 12, OHIO

DE LEUW, CATHER & HILL
CONSULTING ENGINEERS
NEW YORK, N.Y. • COLUMBUS, OHIO • BUFFALO, N.Y.

SITE PLAN

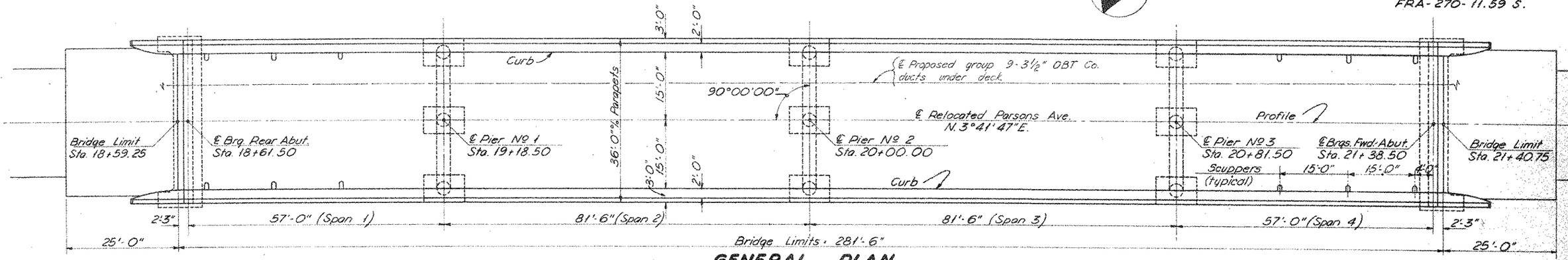
BRIDGE NO FRA-270-1172 S
UNDER RELOC. PARSONS AVE.
FRANKLIN COUNTY — COLUMBUS QUADRANGLE
Scale: 1"=20' — STA 542+20.00

DESIGNED	DRAWN	TRACED	CHECKED	REVISED	DATE	REVISED
DMH	JMK	JMK	MM 5-1-64	DGH AGM 5-18-64	5/ /64	

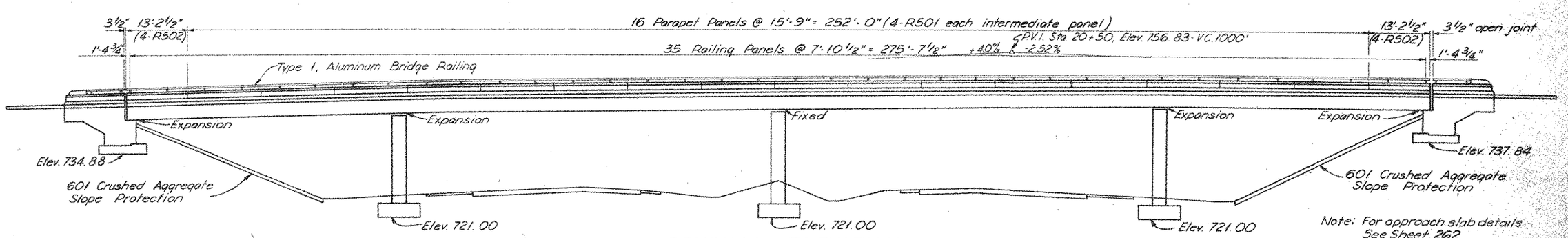
FED. ROAD DIV. NO.	STATE	FED. AID PROJ. NO.	TYPE FUNDS
2	OHIO		

264
332

FRANKLIN COUNTY
FRA-270-11.59 S.



GENERAL PLAN



GENERAL ELEVATION
(Piling Not Shown)

Note: For approach slab details See Sheet 262

ESTIMATED QUANTITIES Br. N° FRA. 270-11.72 S.

Item	Total	Unit	Description	Super.	Abut.	Piers	Gen.
503	302	Cu. Yd	Unclassified Excavation		185	117	
505	Lump	Sum	First Test Pile				Lump
507	2725	lin. ft	12" cast-in-place reinforced concrete piles		1105	1620	
509	116,809	lbs.	Reinforcing Steel	78,806	8936	29,067	
511	295	Cu. Yd	Class "C" Concrete, Superstructure	295			
511	73	Cu. Yd	Class "C" Concrete, Piers above footings			73	
511	76	Cu. Yd.	Class "E" Concrete, Abutment Walls		76		
511	112	Cu. Yd.	Class "E" Concrete, Footings		59	53	
513	261,020	lbs.	Structural Steel	261,020			
514	261,020	lbs.	Field painting of structural steel	261,020			
517	603.67	lin. ft	Bridge Railing, Type 1	558.00	45.67		
518	25	Cu. Yd	Porous Backfill		25		
518	32	lin. ft.	6" helical C.M.P. 707.06, non-perforated		32		
518	57	lin. ft.	6" perforated helical C.M.P. 707.06 including specials.		57		
518	12	each	Scuppers, including supports	12			
828	60	lin. ft.	Joint sealer (end dam)	60			
601	420	Sq. Yd	Crushed Aggregate Slope Protection				420
808	295	Units	Water-Reducing, Set-Retarding Admixture	295			
825	1305	Sq. Yd	Concrete Surface Treatment	1261	44		

DESIGN SPECIFICATIONS: This structure conforms to the requirements of "Design Specifications for Highway Structures" of the State of Ohio, Department of Highways, dated 9-1-57, together with current revisions thereof.

DESIGN DATA:
Design Loading - CF 130 (57)
Concrete Class "C" - basic unit stress 1333 psi.
Concrete Class "E" - basic unit stress 1133 psi.
Structural Steel - ASTM A36 - basic unit stress 20,000 psi.

Reinforcing Steel - ASTM A15, A16, A160, Deformed Intermediate or Hard Grade. Basic unit stress 20,000 psi., except spiral reinforcement may be plain, Structural Grade with basic unit stress of 18,000 psi.

REFERENCE shall be made to Standard Drawings BR-1-65, sh. 1, revised 11-24-65, FSB-1-62 rev. 1-15-63, SD-1-65, sh. 1, 2 & 3 dated 11-8-65, and to Supplemental Specifications 808 dated 2-7-66, 811 dated 3-29-65, 825 dated 4-22-65 and 828 dated 3-21-66.

UTILITY LINES: All expense in relocating the affected utility lines shall be borne by the owners. The Contractor and Owners are requested to cooperate by arranging their work in such a manner that inconvenience to either will be held to a minimum.

PILES shall be driven to a minimum bearing capacity of 41 tons per pile for the abutments and 42 tons per pile for the piers.

ESTIMATED QUANTITIES - NON PARTICIPATING (No Federal or State Participation)

ITEM	TOTAL	UNIT	DESCRIPTION	SUPERSTR.	Piers		
*513	2,520	lbs.	Structural steel	2520			Ohio Bell Telephone Co.
*514	2,520	lbs.	Field Painting	2,520			
603	60	Lin.Ft.	24" Type B Conduit, 706.02, With Class B Bedding		60		

* Included with pertinent structure items tabulated to left of sheet.

BURGESS & NIPLE LIMITED — CONSULTING ENGINEERS
COLUMBUS 12, OHIO

GENERAL PLAN & ELEVATION
GENERAL NOTES &
ESTIMATED QUANTITIES
BR. NO. FRA-270-11.72 S.
IR-270 UNDER PARSONS AVE.

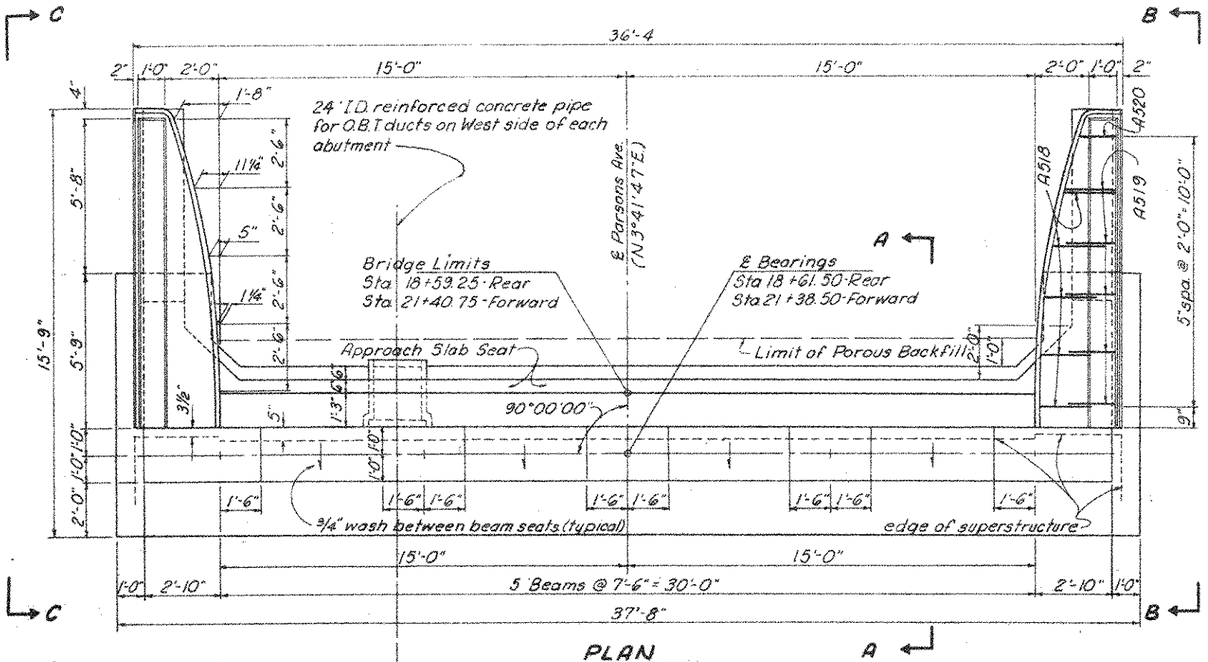
FRANKLIN COUNTY STA. 542+20.00

DESIGNED	DRAWN	TRACED	CHECKED	REVISED DATE	REVISED
D.W.	D.W.		KED	6/6/66 3/16/66	

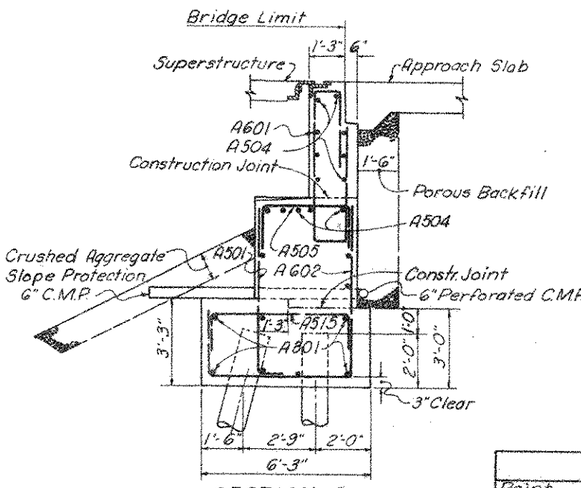
FED ROAD DIV. NO.	STATE	FED. AID PROJ. NO.	TYPE FUNDS
2	OHIO		

265
332

FRANKLIN COUNTY
FRA-270-11.59S.



PLAN
(Forward abutment shown)

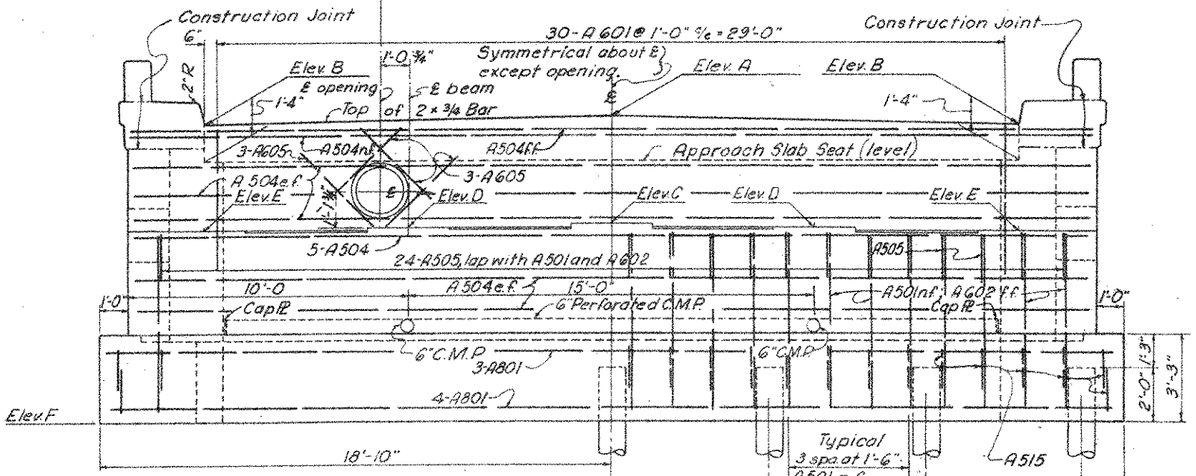


SECTION-A

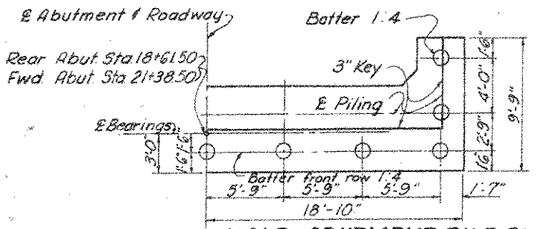
TABLE OF ELEVATIONS

Point	A	B	C	D	E	F
Rear Abutment	746.10	745.86	742.15	742.03	741.91	734.88
Forward Abutment	749.08	748.85	745.10	744.98	744.87	737.84

Cut or bend A504 bars at opening.
Shift A601 bars at opening

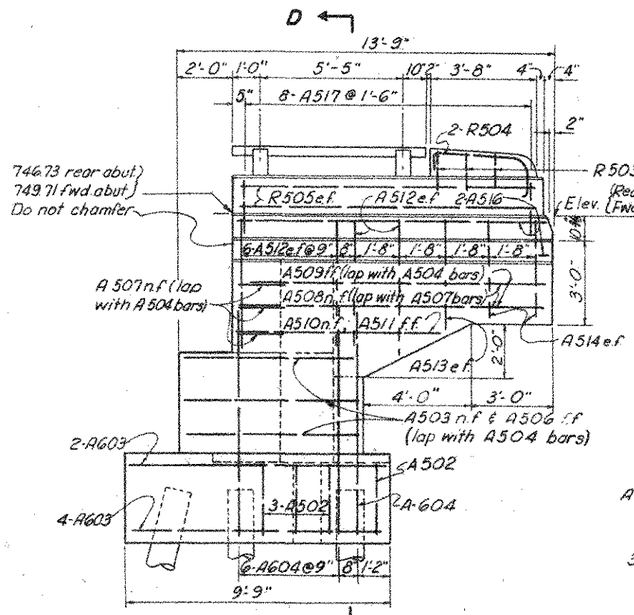


ELEVATION
(Forward abutment shown)

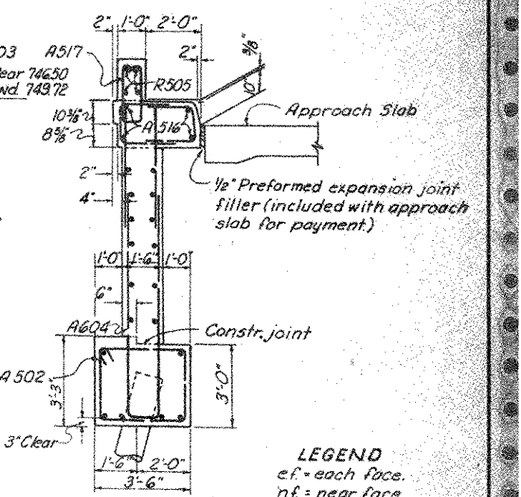


HALF ABUTMENT PILE PLAN

EXCAVATION QUANTITY includes the removal of fill material required for construction of the abutments.



VIEW B (View C opposite hand)



SECTION D

LEGEND
e.f. = each face.
n.f. = near face.
f.f. = far face.

PROCEDURE: The embankment shall be placed and compacted up to the finished spill-through slope and to the level of the subgrade for a distance of 200 feet back of the abutments, after which excavation shall be made for the abutments.

BRIDGE SEAT REINFORCING: Special care shall be taken in placing reinforcing steel in the vicinity of the bridge seat to avoid interference with the drilling of anchor rod holes.

BURGESS & NIPLE LIMITED — CONSULTING ENGINEERS
COLUMBUS 12, OHIO

ABUTMENT DETAILS
BR. NO. FRA-270-11.72S
IR-270 UNDER
PARSONS AVE

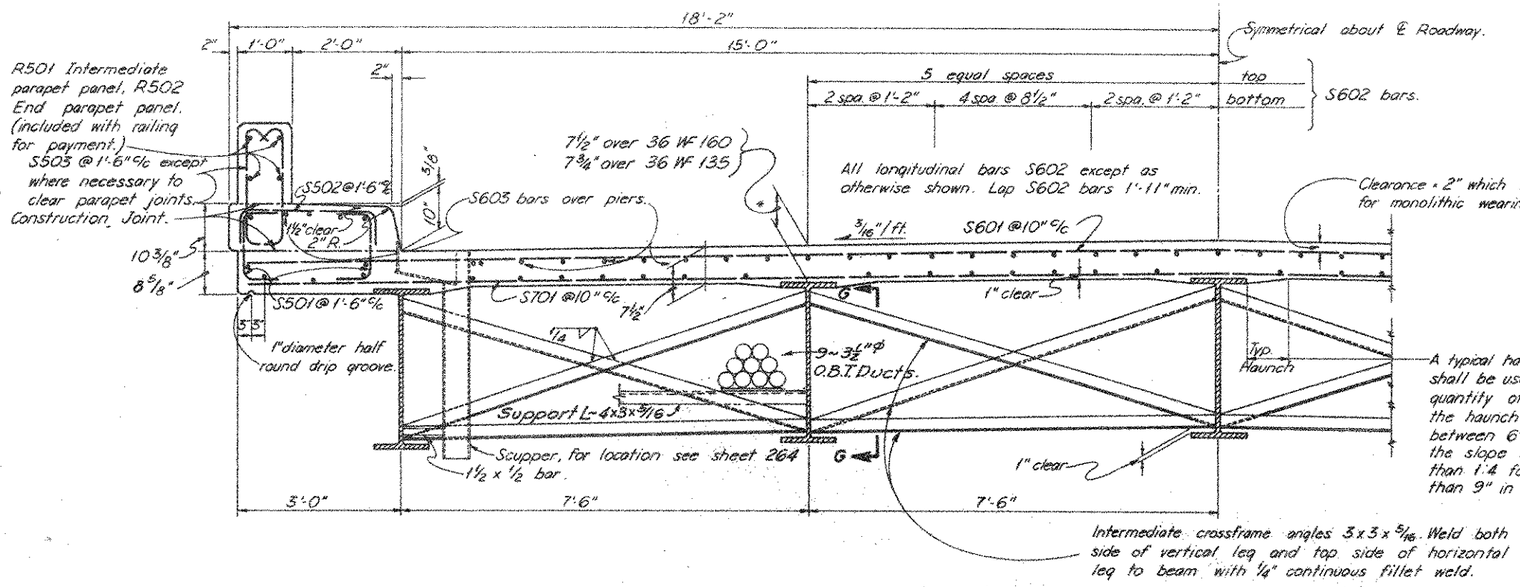
FRANKLIN COUNTY STA 542+2000

DESIGNED	DRAWN	TRACED	CHECKED	REVISION DATE	REVISED
DW WER	DW	LZ	KED	WER 5-16-86	

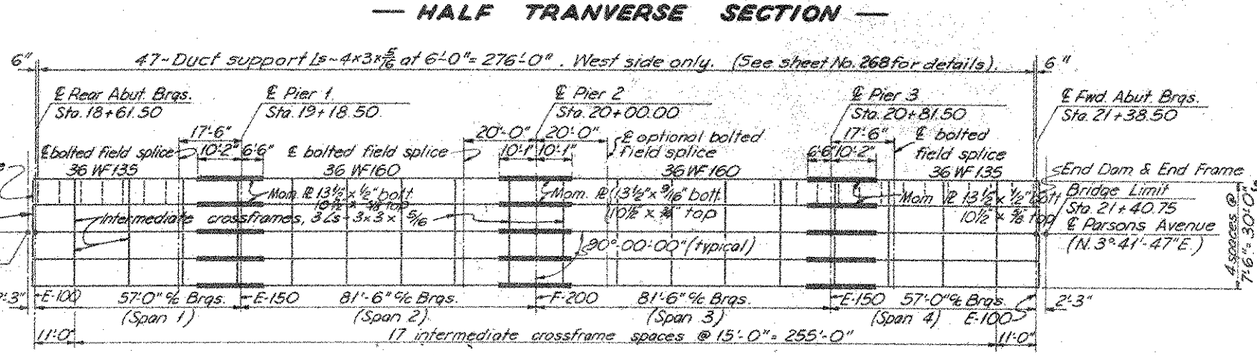
FED. ROAD DIV. NO.	STATE	FED. AID PROJ. NO.	TYPE FUNDS
2	OHIO		

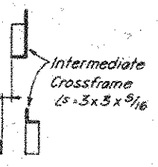
266
332

FRANKLIN COUNTY
FRA-270-11.59 S.



— HALF TRANVERSE SECTION —





SECTION - G

WELDING:

Any welds shown as field welds may, at the option of the Contractor, be made in the shop.

RAILING shall be aluminum with concrete parapet, Type 1, Standard Drawing BR-1-65, sh. 1.

CONCRETE shall be Class "C" fc = 1333 p.s.i.

MACHINE FINISH: The concrete bridge deck shall be finished by the use of a finishing machine.

SLAB THICKNESS shown includes 1" for monolithic wearing surface.

ADDITIONAL NOTES: for additional notes see sheet 264. See Std. Drwg. SD-1-65, sh. 3 for detail notes on Bolted Beam Splice.

FOR DETAILS OF	SEE
End Dam & End Crossframe	Std. Drwg. SD-1-65, Sh1
Scuppers (Type 1)	Std. Drwg. SD-1-65 Sh2
Curb Plates	Std. Drwg. SD-1-65 Sh2
Bearings	Std. Drwg. FSB-1-62
Railing & Parapet	Std. Drwg. BR-1-65
Moment Plates	Std. Drwg. SD-1-65 sh2

* This is a nominal dimension. The quantity of deck concrete to be paid for shall be based on this dimension even though deviation from it may be necessary because the top flange of the beam may not have the exact camber or conformation required to place it parallel to the finished grade.

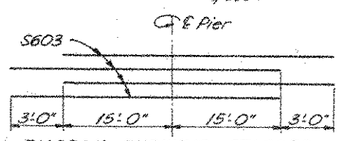
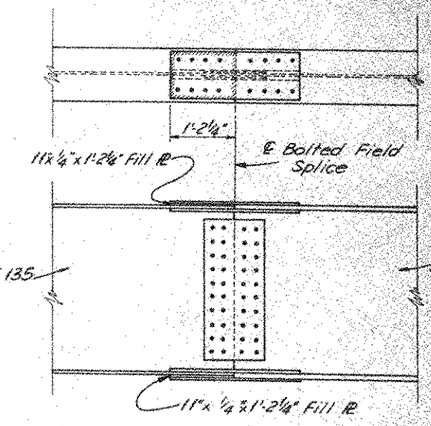


DIAGRAM SHOWING STAGGER OF S603 BARS OVER PIERS



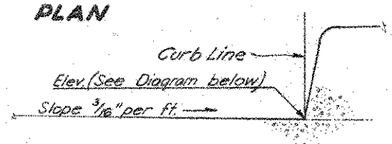
BOLTED BEAM SPLICE DETAILS

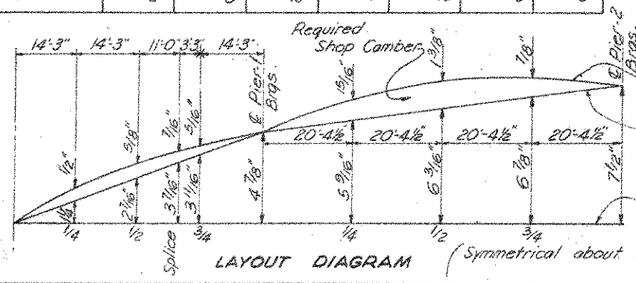
(for additional details See Std. Drwg. SD-1-65 sh. 3)

DEFLECTION & CAMBER

	Span 1 & 4				Span 2 & 3		
	¼	½	splice	¾	¼	½	¾
Deflection due to weight of steel	0.05	0.05	0.03	0.02	0.09	0.14	0.08
Deflection due to remaining dead load	0.21	0.23	0.11	0.08	0.38	0.58	0.33
Adjustment required for vertical curve	0.24	0.32	0.27	0.24	0.49	0.65	0.49
Required Shop Camber	0.50 ½"	0.60 5/8"	0.41 7/16"	0.34 5/16"	0.96 15/16"	1.37 1 3/8"	0.90 7/8"

FRAMING PLAN





LAYOUT DIAGRAM (Symmetrical about ℄ Pier-2 Brgs.)

GUTTER

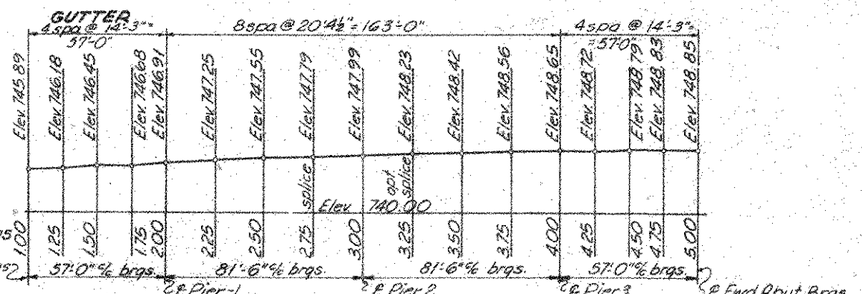


DIAGRAM SHOWING ELEVATIONS FOR SETTING GUTTER ELEVATIONS (BOTH SIDES OF DECK) BEFORE PLACEMENT OF DECK CONCRETE

BURGESS & NIPLE LIMITED — CONSULTING ENGINEERS
COLUMBUS 13, OHIO

SUPERSTRUCTURE DETAILS
BR. NO. FRA-270-1172 S.
IR-270 UNDER PARSONS AVE.

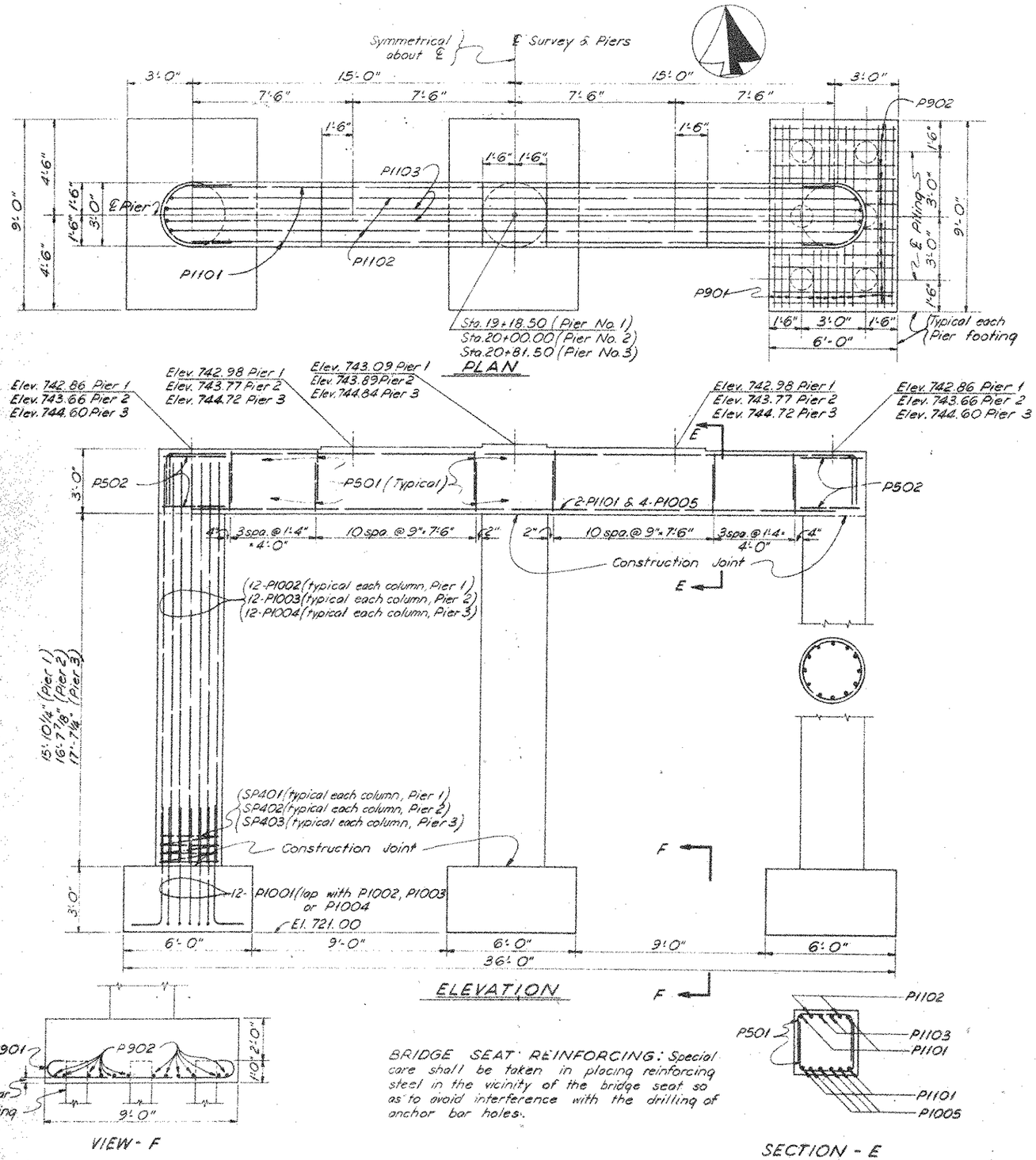
FRANKLIN COUNTY STA. 542+20.00

DESIGNED	DRAWN	TRACED	CHECKED	REVISED DATE	POSTED
D.W.	D.W.		KED	WCR 7-15-65	

FED. ROAD DIV. NO.	STATE	PROJ. NO.	TYPE FUNDS
2	OHIO		

267
332

FRANKLIN COUNTY
FRA-270-11.59S.

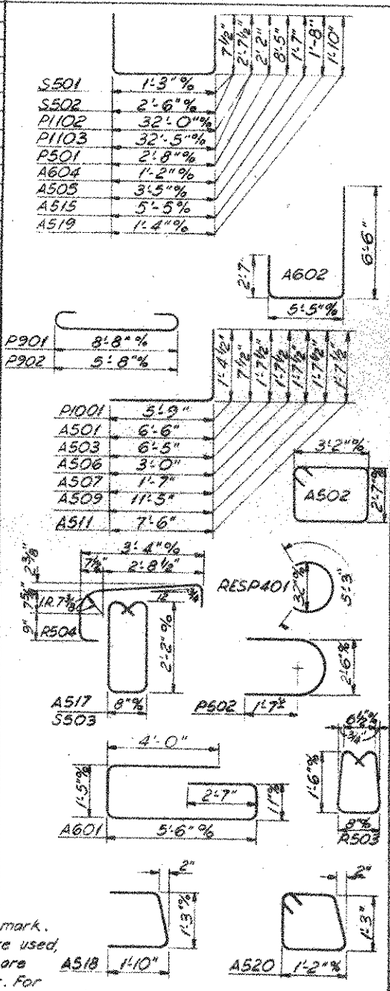


BRIDGE SEAT REINFORCING: Special care shall be taken in placing reinforcing steel in the vicinity of the bridge seat so as to avoid interference with the drilling of anchor bar holes.

REINFORCING STEEL LIST BR. No FRA-270-1172S.

Mark	No.	Length	Weight	Shape
SUPERSTRUCTURE				
S701	334	35'-8"	24,350	S
S601	334	35'-8"	17,893	S
S602	504	36'-6"	27,631	S
S603	72	33'-0"	3,569	S
S501	744	2'-3"	1,746	B
S502	372	3'-6"	1,358	B
S503	388	5'-7"	2259	B
PIERS				
P1101	12	30'-0"	1913	S
P1102	6	36'-8"	1169	B
P1103	6	37'-1"	1182	B
P1001	108	6'-10"	3176	B
P1002	36	18'-6"	2866	S
P1003	36	19'-3"	2982	S
P1004	36	20'-2"	3124	S
P1005	12	30'-0"	1549	S
P901	108	11'-2"	4100	B
P902	108	8'-2"	2999	B
P501	168	6'-9"	1183	B
P502	12	7'-0"	88	B

Bending Diagrams



BAR SIZE is indicated in the bar mark. The first digit where three digits are used, and the first two digits where four are used, indicate the bar size number. For example, P502 is a No. 5 size bar and P1001 is a № 10 size.

Mark	No.	Length	Weight	Shape
ABUTMENTS				
A801	14	37'-2"	1,389	S
A601	60	13'-9"	1,239	B
A602	48	14'-2"	1,021	B
A603	24	9'-5"	339	S
A604	28	17'-8"	743	B
A605	24	3'-6"	126	S
A501	48	7'-0"	350	B
A502	16	12'-0"	200	B
A503	12	7'-11"	99	B
A504	34	35'-4"	1253	S
A505	48	6'-4"	317	B
A506	12	4'-6"	56	B
A507	12	3'-1"	39	B
A508	8	11'-5"	95	S
A509	8	12'-11"	108	B
A510	4	7'-6"	31	S
A511	4	9'-0"	38	B
A512	64	4'-9"	317	S
A513	8	4'-0"	33	S
A514	16	3'-6"	58	S
A515	56	8'-8"	496	B
A516	16	11'-3"	188	S
A517	32	5'-7"	186	B
A518	20	4'-6"	94	B
A519	20	4'-9"	99	B
A520	4	5'-2"	22	B
RAILING (To be included with railing for payment)				
R501	128	15'-5"		S
R502	16	12'-10"		S
R503	12	4'-2"		B
R504	8	5'-4"		B
R505	16	11'-0"		S
REPLACEMENT BARS				
RE110I	1	7'-6"	-	S
RE100X	1	7'-2"	-	S
RE90I	1	6'-10"	-	S
RE80I	1	6'-6"	-	S
RE70I	2	6'-2"	-	S
RE60I	3	5'-11"	-	S
RE50I	1	5'-7"	-	S
RESP401	1	5'-3"	-	B

SPIRALS

Mark	No.	Size	Core Dia.	Length	Pitch	Turns	Spacer	Weight
SP401	3	½"ϕ	32"	15'-9"	4½"	45	4	873
SP402	3	½"ϕ	32"	16'-6"	4½"	47	4	912
SP403	3	½"ϕ	32"	17'-3"	4½"	49	4	951

SPIRAL REINFORCING BARS: The "Length" shown in steel list for the spiral bars is the length of the spiral along the axis of the spiral. The "№ of Turns" shown is the length divided by the pitch, plus 3 turns (total number of closed coils). Spiral reinforcing bars shall not have deformations but shall in other respects conform to Item 509. 1½ Closed coils shall be provided at the ends of each spiral unit. Four steel channel, tee or angle spacers, weighing approximately 0.68 lb. per lin. ft. of spacer, shall be provided for each spiral unit. They shall be equally spaced along the periphery of the coil. The number of lbs. of these spacers, based on 0.68 lb. per lin. ft., will be paid for as reinforcing steel and is included in the tabulated quantity of spiral bars.

BURGESS & NIPLE LIMITED — CONSULTING ENGINEERS
COLUMBUS 12, OHIO

PIER DETAILS AND REINFORCING STEEL LIST
BR. NO. FRA-270-1172S
I.R. 270 UNDER PARSONS AVE.

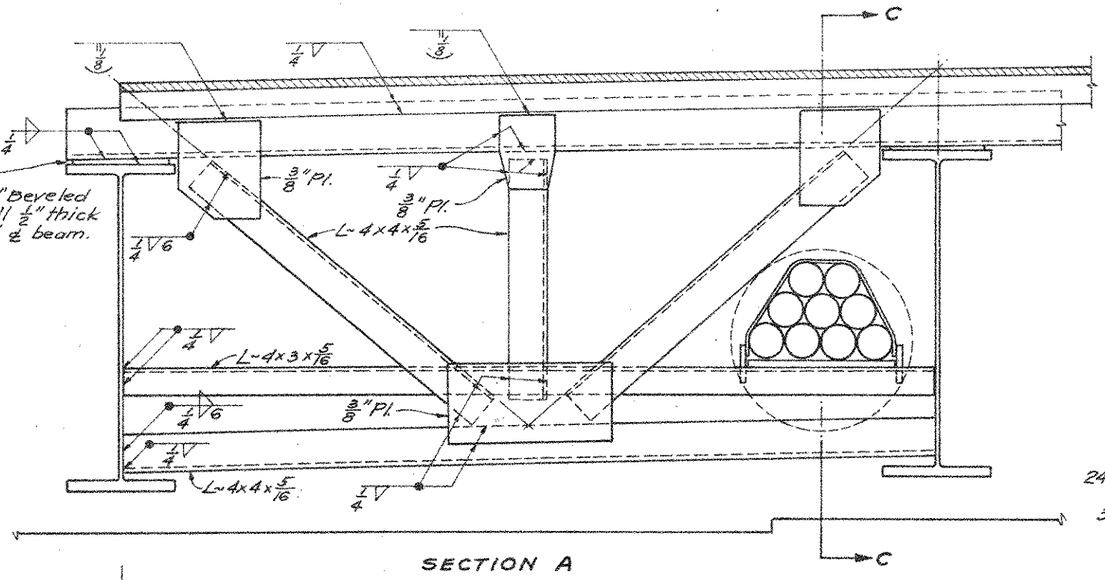
FRANKLIN COUNTY STA. 542+20.00

DESIGNED	DRAWN	TRACED	CHECKED	REVISED DATE	REVISIONS
D.W. W.L.B.	D.W.		KED	MAR 8-16-66	

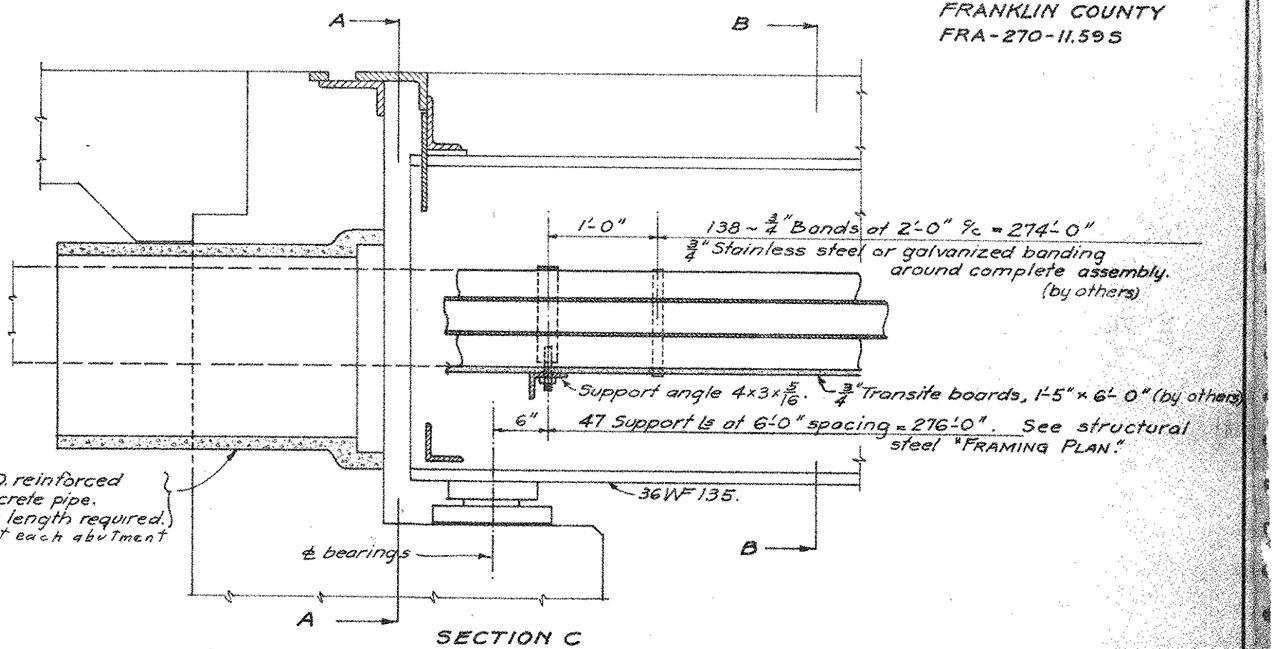
FED. ROAD DIV. NO.	STATE	FED. AID PROJ. NO.	TYPE FUNDS
2	OHIO		

265
332

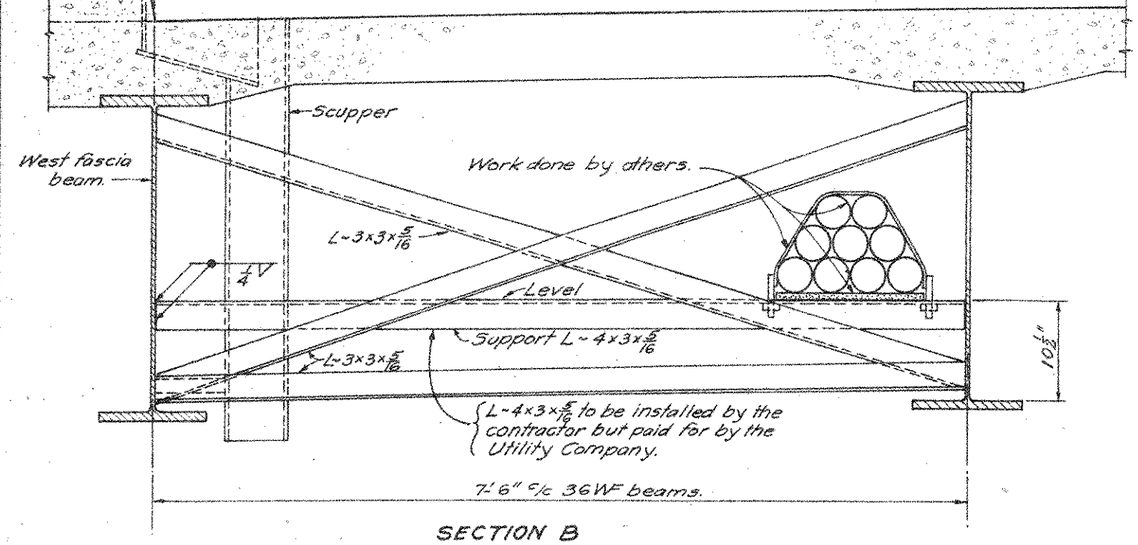
FRANKLIN COUNTY
FRA-270-11.59S



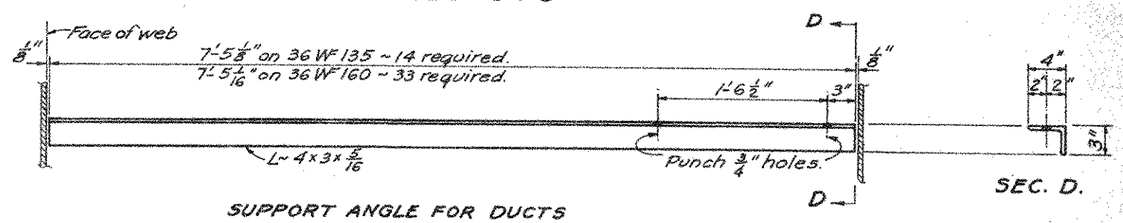
SECTION A



SECTION C

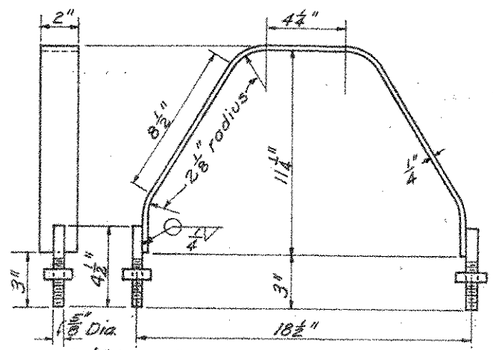


SECTION B



SUPPORT ANGLE FOR DUCTS

SEC. D.



2"x¼" MILD STEEL BANDING CLAMP DETAIL
Galvanize clamp after forming locknuts.
(by others)

DUCTS to be 3½" fiber-cement conduit specificied at 7876.
Join sections with black plastic couplings.
(by others)
TRANSITE BOARDS: Allow ⅛" open joints between ends of transite boards.
Transite boards may be purchased from Red Seal Electric Co., Cleveland, Ohio.
(by others)

BURGESS & NIPLE LIMITED — CONSULTING ENGINEERS
COLUMBUS 12, OHIO

TELEPHONE DUCT INSTALLATION

BRIDGE No. FRA-270-1172S
IR 270 UNDER
PARSONS AVENUE
FRANKLIN COUNTY STA. 542+20.00

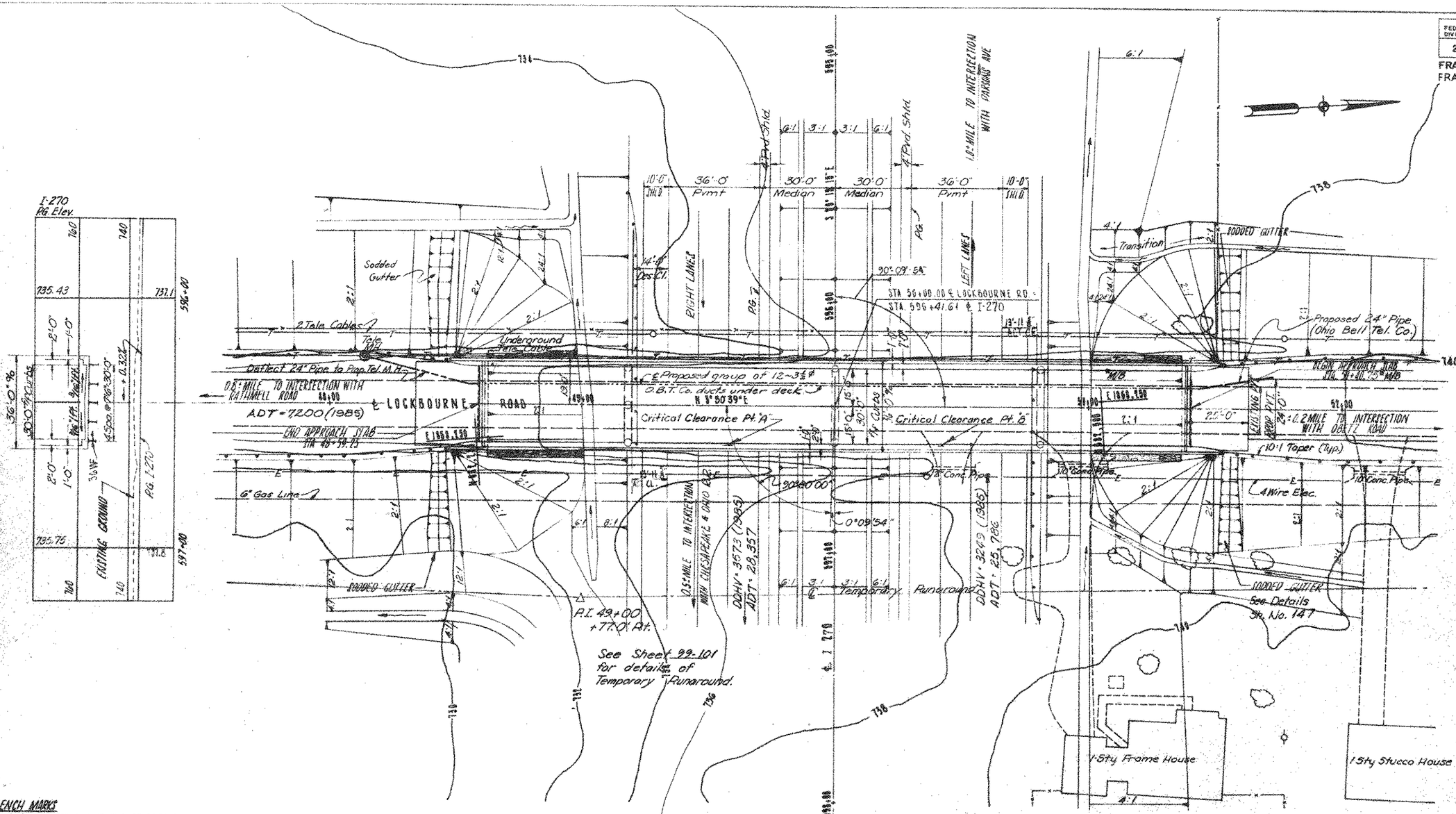
DESIGNED	DRAWN	TRACED	CHECKED	REVISED DATE	REVISED
KED	KED	KED	WLR	WLR 3-10-66	

6/6

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

269
332

FRANKLIN COUNTY
FRA-270-11.59 S.



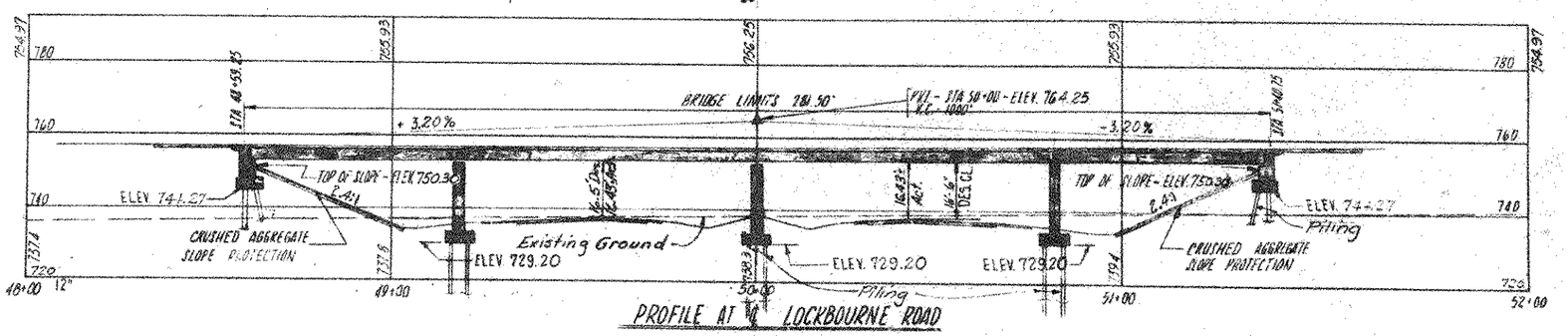
PROPOSED STRUCTURE

TYPE: 4 Span continuous steel beam with reinforced concrete deck and reinforced concrete substructure.
SPANS: 57'-0", 61'-6", 61'-6", 57'-0" ℄ Brgs.
ROADWAY: 30'-0" ℄ 1/2 of 2'-0" safety curb
LOAD FREQUENCY: CF-400 (57)
SKEW: NONE
WEARING SURFACE: 1" Monolithic concrete
ALIGNMENT: Tangent
APPROACH SLAB: Special (25' long)

BENCH MARKS

1. ℄ I-270 STA. 601+57.424 RT. RR SPIKE W. SIDE 6" CHERRY. ELEV. 738.896
2. ℄ I-270 STA. 596+18.242 LT. SE. CORNER STONE H/W S. SIDE DRIVE TO 4510 LOCKBOURNE RD. ELEV. = 740.146

12" Cast-in-place reinforced concrete piles.
Estimated average pay length:-
Rear Abut. 50 ft.; Forward Abut. 35 ft.;
Piers 1 and 2, 40 ft and Pier 3, 25 ft.



PROFILE AT ℄ LOCKBOURNE ROAD

BURGESS & NIPLE, LIMITED — CONSULTING ENGINEERS
COLUMBUS 12, OHIO

DE LEUW, CATHER & GWILL
CONSULTING ENGINEERS
NEW YORK, N.Y. • COLUMBUS, OHIO • BUFFALO, N.Y.

SITE PLAN
BRIDGE NO. FRA-270-11.75 S
UNDER LOCKBOURNE ROAD

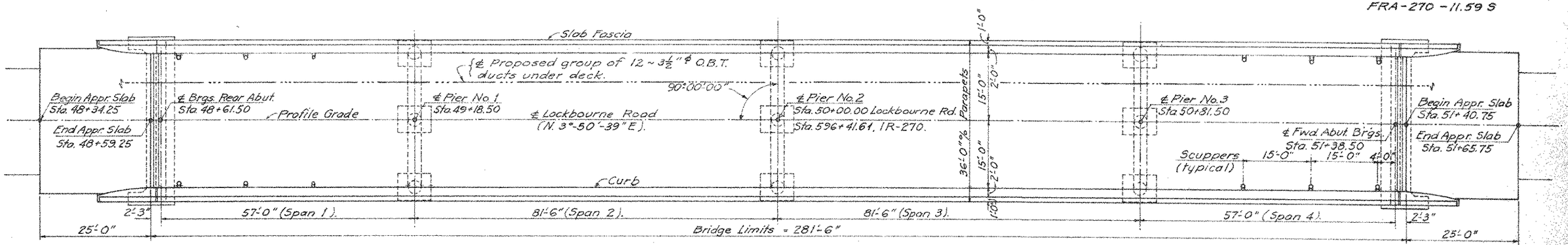
FRANKLIN COUNTY
Scale 1" = 20'
COLUMBUS OUTERBELT
STA. 596+41.61

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISIONS
BPP	BPP	JMS	MM 5-5-64	DeL 5/6/64	5/6/64	

FED. ROAD DIV. NO.	STATE	FED. AID PROJ. NO.	TYPE FUNDS
2	OHIO		

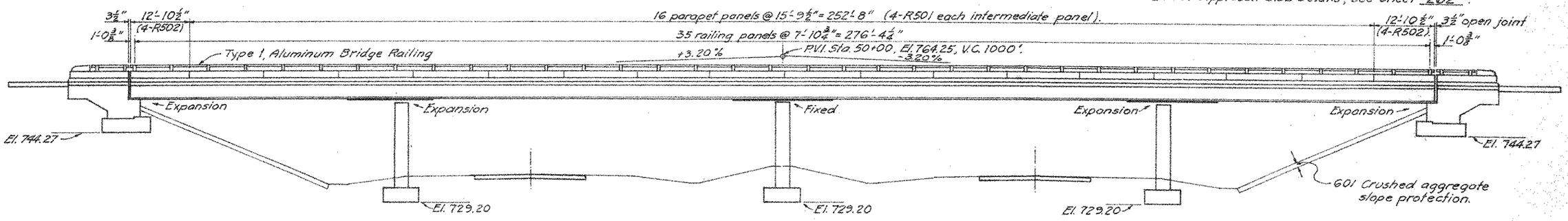
270
332

FRANKLIN COUNTY
FRA-270-11.59 S



GENERAL PLAN

Note: For Approach Slab Details, see sheet 262.



GENERAL ELEVATION
(Piling not shown).

ESTIMATED QUANTITIES BR. No. FRA-270-1275S.

ITEM	TOTAL	UNIT	DESCRIPTION	SUPERST.	ABUTS.	PIERS	GENERAL
503	336	cu.yd.	Unclassified excavation.		186	150	
505	Lump	sum	First test pile				Lump
506	Lump	sum	First pile test load				Lump
506	1	each	Subsequent pile test load				1
507	2,110	lin.ft.	12" Cast-in-place reinforced concrete piles.		850	1,260	
509	115,938	lbs.	Reinforcing steel	83,550	8,601	23,787	
511	320	cu.yds.	Class "C" concrete, superstructure.	320			
511	70	cu.yds.	Class "C" concrete, piers above footings.			70	
511	80	cu.yds.	Class "E" concrete, abutment walls.		80		
511	102	cu.yds.	Class "E" concrete, footings.		59	43	
513	290,000	lbs.	Structural steel	290,000			
514	290,000	lbs.	Field painting of structural steel	290,000			
517	603.67	lin.ft.	Bridge Railing, Type 1	558.00	45.67		
518	25	cu.yds.	Porous backfill		25		
518	32	lin.ft.	6" Helical C.M.P. 707.06 non-perforated.		32		
518	57	lin.ft.	6" Perforated helical C.M.P. 707.06 including specials.		57		
518	12	each	Scuppers, including supports	12			
601	420	sq.yds.	Crushed aggregate slope protection.				420
808	320	Units	Water-reducing, set-retarding admixture.	320			
825	1305	sq.yd.	Concrete Surface Treatment	1261	44		
828	60	lin.ft.	Joint Sealer (end dam)	60			

DESIGN SPECIFICATIONS: This structure conforms to the requirements of "Design Specifications for Highway Structures" of the State of Ohio, Department of Highways, dated 9-1-57, together with current revisions thereof.

REFERENCE shall be made to Standard Drawings:
BR-1-65, Sh. 1, revised 11-24-65
SD-1-65, Sh 1, 2 & 3 dated 11-8-65

FSB-1-62, revised 1-15-63;
RB-1-55, revised 2-2-59;
and to Supplemental Specifications
808 dated 2-7-66
811 dated 3-29-65
825 dated 4-22-65
828 dated 3-21-66

PILES shall be driven to a minimum bearing capacity of 35 tons per pile for the abutments and 50 tons per pile for the piers.

DESIGN DATA:
Design Loading - CF400 (57)
Concrete Class "C" - basic unit stress 1333 psi.
Concrete Class "E" - basic unit stress 1133 psi.
Structural Steel - ASTM A36 basic unit stress 20,000 psi.

Reinforcing Steel - ASTM A15, A16, A160, Deformed, Intermediate or Hard Grade. Basic unit stress 20,000 psi except spiral reinforcement may be plain Structural Grade with basic unit stress of 18,000 psi.

UTILITY LINES: All expense involved in relocating the effected utility lines shall be borne by the owners. The Contractor and owners are requested to cooperate by arranging their work in such a manner that inconvenience to either will be held to a minimum.

ESTIMATED QUANTITIES ~ NON PARTICIPATING (No Federal or State Participation).

ITEM	TOTAL	UNIT	DESCRIPTION	SUPERST.			
*513	2,350	lbs.	Structural steel	2,350			Ohio Bell Telephone Co.
*514	2,350	lbs.	Field painting of structural steel	2,350			

* Included with pertinent structure quantities tabulated to left of sheet.

BURGESS & NIPLE LIMITED — CONSULTING ENGINEERS
COLUMBUS 12, OHIO

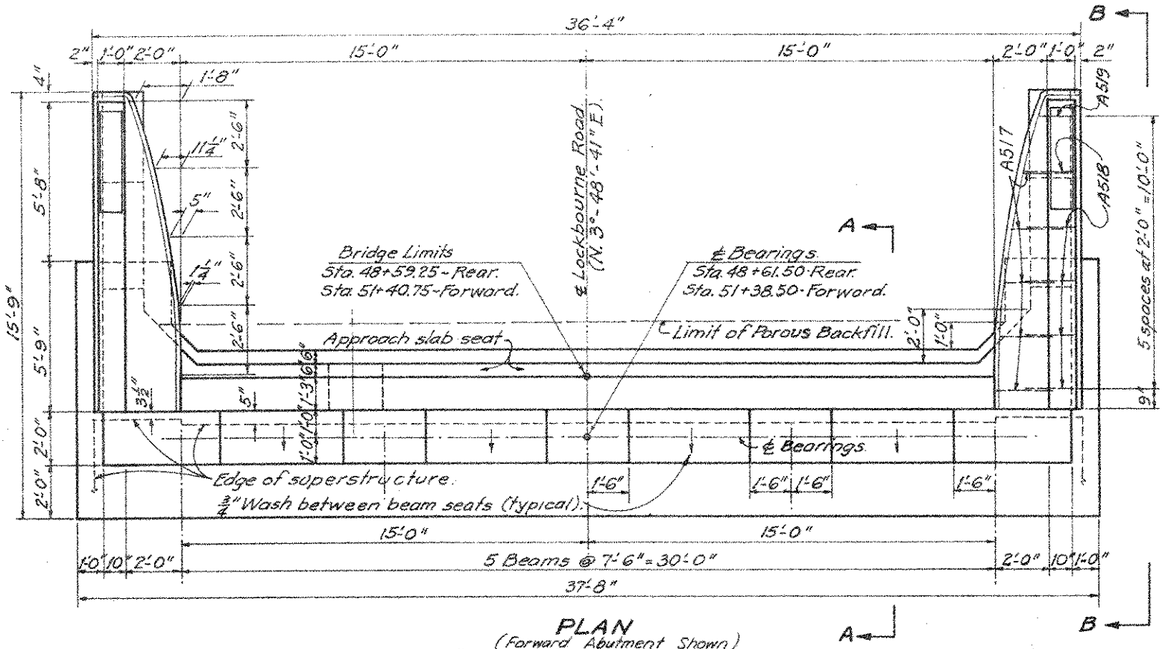
GENERAL PLAN & ELEVATION
BRIDGE NO. FRA-270-1275S
IR-270 UNDER
LOCKBOURNE ROAD
FRANKLIN COUNTY STA. 596+41.61

DESIGNED	DRAWN	TRACED	CHECKED	REVISION DATE	REVISED
KED	KED	KED	DWJ	WER 6-30-66	

FED. ROAD DIV. NO.	STATE	FED. AID PROJ. NO.	TYPE FUNDS
5	OHIO		

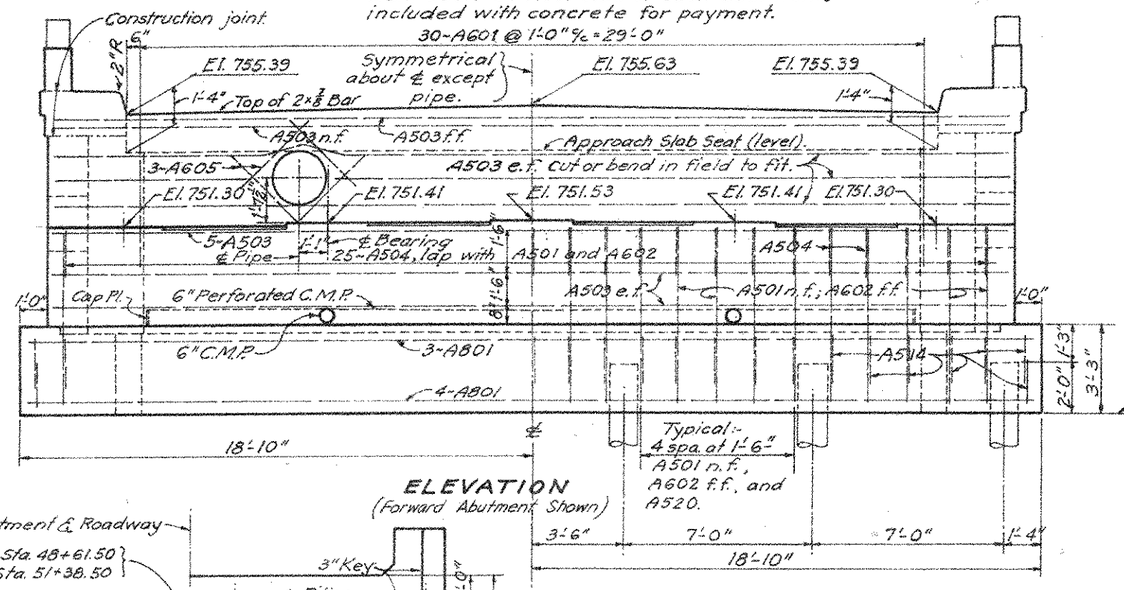
271
332

FRANKLIN COUNTY
FRA-270-11.59 S

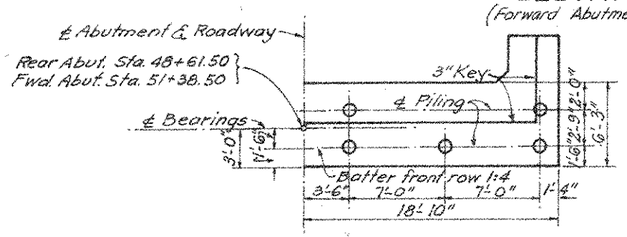


PLAN
(Forward Abutment Shown)

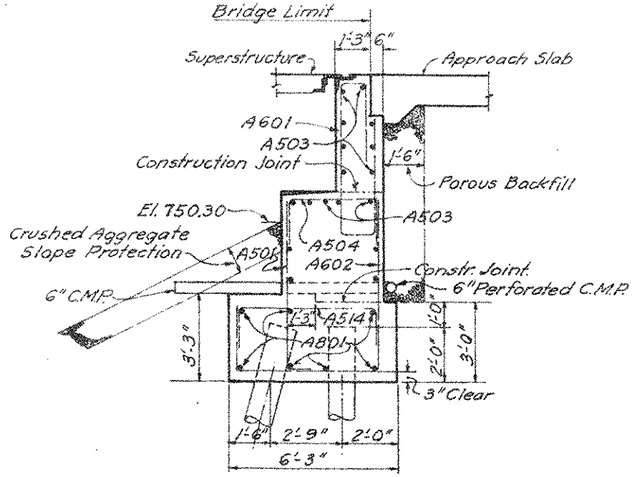
24" Dia. reinforced concrete pipe for O.B.T. ducts on west side of each abutment; included with concrete for payment.



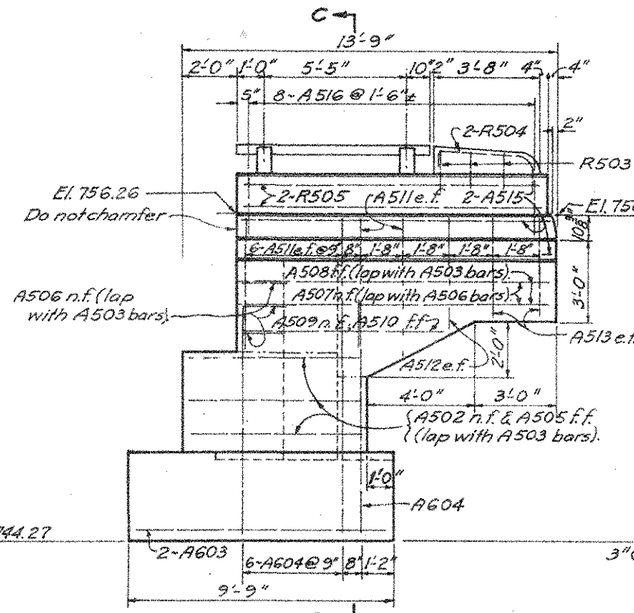
ELEVATION
(Forward Abutment Shown)



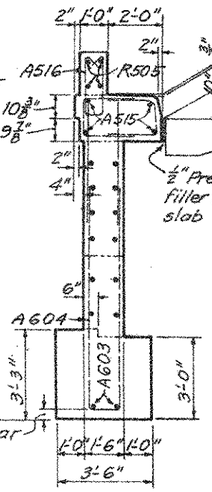
HALF ABUTMENT PILE PLAN



SECTION - A



VIEW - B



SECTION - C

PROCEDURE: The embankment shall be placed and compacted up to the finished spill-through slope and to the level of the subgrade for a distance of 200 feet back of the abutments, after which excavation shall be made for the abutments.

EXCAVATION QUANTITY includes the removal of fill material required for construction of the abutments.

BRIDGE SEAT REINFORCING: Special care shall be taken in placing reinforcing steel in the vicinity of the bridge seat to avoid interference with the drilling of anchor rod holes.

LEGEND:-
e.f. = each face.
n.f. = near face.
f.f. = far face.

BURGESS & NIPLE LIMITED — CONSULTING ENGINEERS
COLUMBUS 12, OHIO

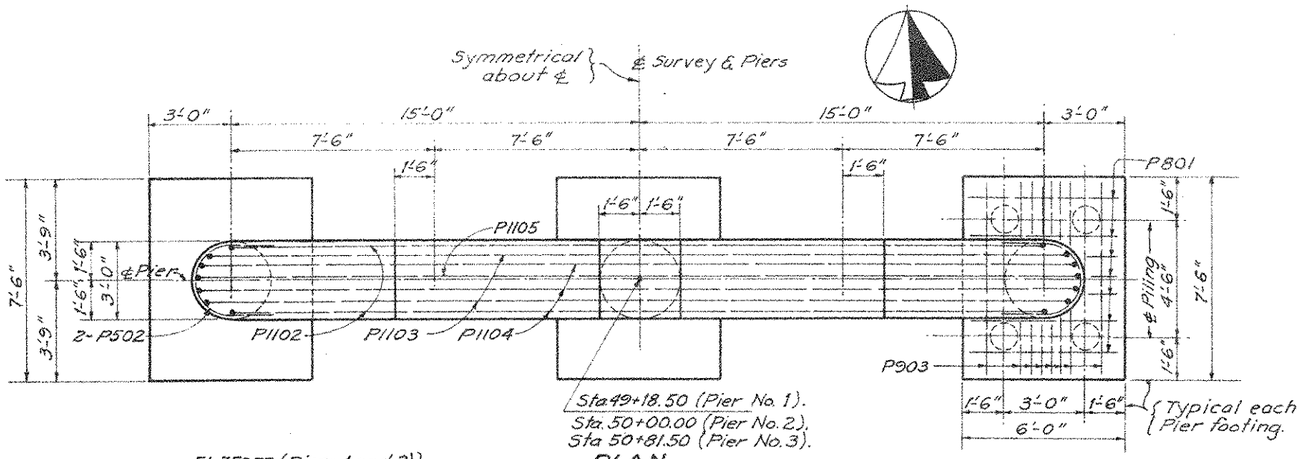
ABUTMENT DETAILS
BRIDGE NO. FRA-270-1275 S.
IR-270 UNDER
LOCKBOURNE ROAD
FRANKLIN COUNTY STA. 596+41.61

DESIGNED	DRAWN	TRACED	CHECKED	REVISED DATE	REVISED
KED	KED	KED	DWS	JWR 6-30-65	

FED. ROAD DIV. NO.	STATE	FED. AID PROJ. NO.	TYPE FUNDS
2	OHIO		

272 / 332

FRANKLIN COUNTY
FRA-270-11.59 S

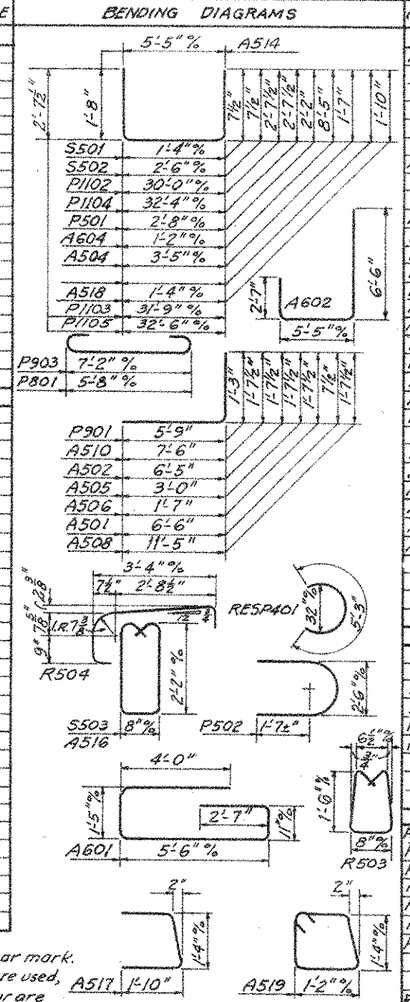


BRIDGE SEAT REINFORCING: Special care shall be taken in placing reinforcing steel in the vicinity of the bridge seat so as to avoid interference with the drilling of anchor bar holes.

REINFORCING STEEL LIST BR. NO. FRA-270-1275 S.

MARK	NO.	LENGTH	WEIGHT	SHAPE
SUPERSTRUCTURE				
S701	371	35'-8"	27,047	S
S601	371	35'-8"	19,875	S
S602	504	36'-6"	27,631	S
S603	72	33'-0"	3,569	S
S501	744	2'-4"	1,811	B
S502	372	3'-6"	1,358	B
S503	388	5'-7"	2,259	B
PIERS				
P1101	9	30'-0"	1435	S
P1102	6	34'-8"	1,105	B
P1103	6	36'-5"	1,161	B
P1104	6	37'-0"	1,179	B
P1105	3	37'-2"	592	B
P1001	12	30'-0"	1,549	S
P901	108	6'-9"	2,479	B
P902	72	18'-0"	4,406	S
P903	72	9'-8"	2,366	B
P904	36	19'-0"	2,326	S
P801	63	7'-10"	1,318	B
P501	168	6'-9"	1183	B
P502	12	7'-0"	88	B

BENDING DIAGRAMS



MARK	NO.	LENGTH	WEIGHT	SHAPE
ABUTMENTS				
A801	14	37'-2"	1,389	S
A601	60	13'-9"	1,239	B
A602	50	14'-2"	1,064	B
A603	8	9'-5"	113	S
A604	28	17'-8"	743	B
A605	24	3'-6"	126	S
A501	50	7'-0"	365	B
A502	12	7'-11"	99	B
A503	34	36'-4"	1,253	S
A504	50	6'-4"	330	B
A505	12	4'-8"	56	B
A506	12	3'-3"	39	B
A507	8	11'-5"	95	S
A508	8	12'-11"	108	B
A509	4	7'-6"	31	S
A510	4	9'-0"	38	B
A511	64	4'-9"	317	S
A512	8	4'-0"	33	S
A513	16	3'-6"	58	S
A514	58	8'-6"	514	B
A515	16	11'-3"	188	S
A516	32	5'-7"	186	B
A517	20	4'-7"	96	B
A518	20	4'-9"	99	B
A519	4	5'-4"	22	B
RAILING				
R501	128	15'-6"	Included with railing for payment.	S
R502	16	12'-6"		S
R503	12	4'-2"		B
R504	8	5'-4"		B
R505	16	11'-0"		S
REPLACEMENT BARS				
RE1101	1	7'-6"	—	S
RE1001	1	7'-2"	—	S
RE901	1	6'-10"	—	S
RE801	1	6'-6"	—	S
RE701	2	6'-2"	—	S
RE601	3	5'-11"	—	S
RE501	1	5'-7"	—	S
RESP401	1	5'-3"	—	B

BAR SIZE is indicated in the bar mark. The first digit where three digits are used, and the first two digits where four are used, indicate the bar size number. For example, P502 is a No. 5 size bar and P1001 is a No 10 size.

SPIRALS

MARK	NO.	SIZE	CORE DIA.	LENGTH	PITCH	TURNS	SPACER	WEIGHT
SP401	6	½" ϕ	32"	15'-4½"	4½"	44	4	1707
SP402	3	½" ϕ	32"	16'-1½"	4½"	46	4	893

SPIRAL REINFORCING BARS:-
The "Length" shown in the steel list for the spiral bars is the length of the spiral along the axis of the spiral. The "No. of Turns" shown is the length divided by the pitch, plus 3 turns (total number of closed coils). Spiral reinforcing bars shall not have deformations but shall in other respects conform to Item 509. 1½ Closed coils shall be provided at the ends of each spiral unit. Four steel channel, tee or angle spacers, weighing approximately 0.68 lb. per lin. ft. of spacer, shall be provided for each spiral unit. They shall be equally spaced along the periphery of the coil. The number of lbs. of these spacers, based on 0.68 lb. per lin. ft., will be paid for as reinforcing steel and is included in the tabulated quantity of spiral bars.

BURGESS & NIPLE LIMITED — CONSULTING ENGINEERS
COLUMBUS 12, OHIO

PIER DETAILS AND REINFORCING STEEL LIST

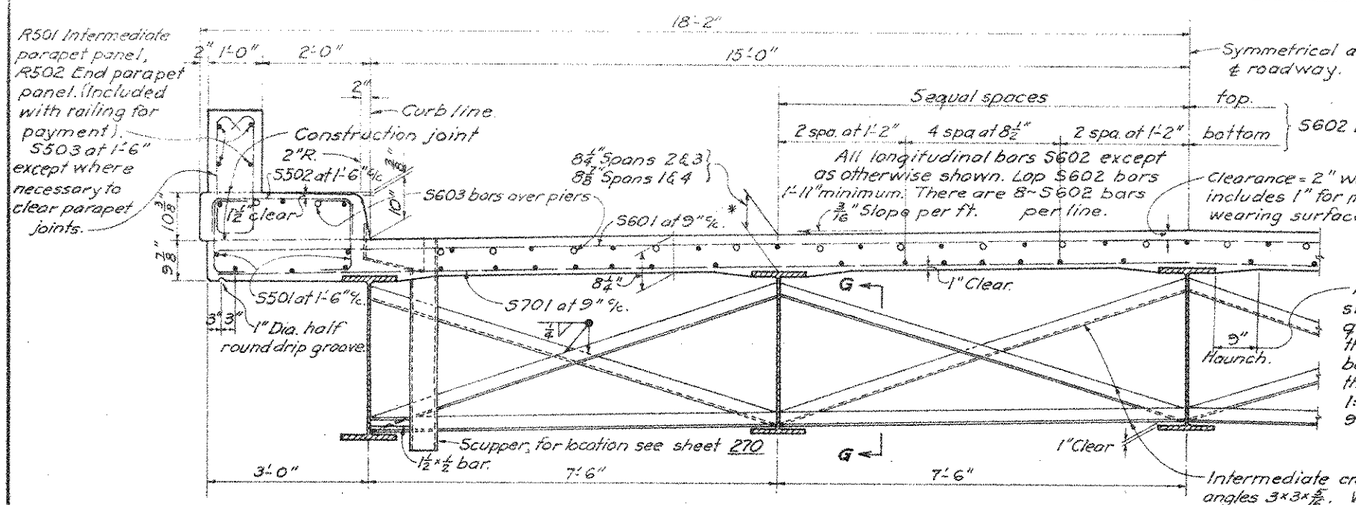
BRIDGE NO. FRA-270-1275 S.
IR-270 UNDER LOCKBOURNE ROAD
FRANKLIN COUNTY STA. 596+41.61

DESIGNED	DRAWN	TRACED	CHECKED	REVISED DATE	REVISED
KED	KED	KED	DNS	MAR 6-30-65	

FED. ROAD DIV. NO.	STATE	FED. AID PROJ. NO.	TYPE FUNDS
2	OHIO		

273
332

FRANKLIN COUNTY
FRA-270-11.59 S



HALF TRANSVERSE SECTION.

WELDING: Any welds shown as field welds may, at the option of the Contractor, be made in the shop.

RAILING shall be aluminum with concrete parapet, Type 1 Standard Drawing BR-1-65.

CONCRETE shall be Class "C", f_c = 1333 psi.

MACHINE FINISH: The concrete bridge deck shall be finished by the use of a finishing machine.

SLAB THICKNESS shown includes 1" for monolithic wearing surface.

* This is a nominal dimension. The quantity of deck concrete to be paid for shall be based on this dimension even though deviation from it may be necessary because the top flange of the beam may not have the exact camber or conformation required to place it parallel to the finished grade.

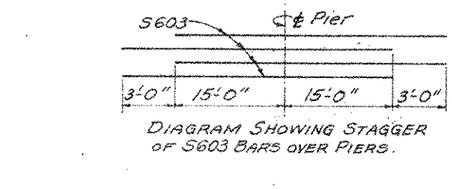
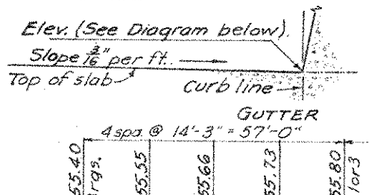
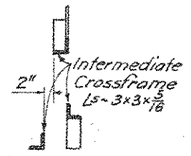


DIAGRAM SHOWING STAGGER OF S603 BARS OVER PIERS.





SECTION - G.

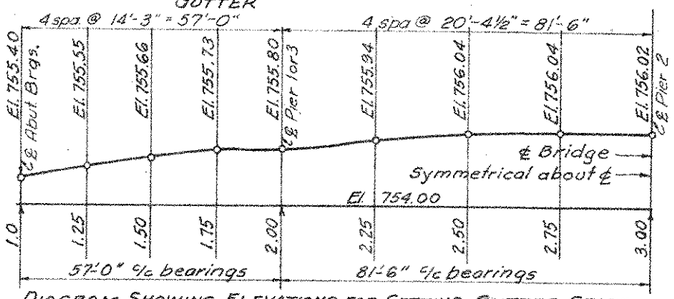
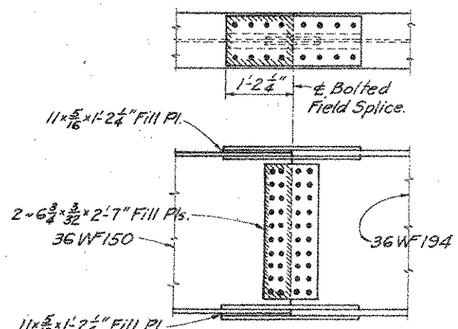


DIAGRAM SHOWING ELEVATIONS FOR SETTING GUTTER GRADE (both sides of deck) before placement of deck concrete.

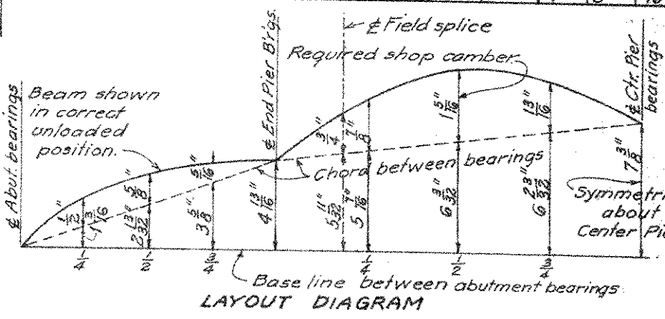
DEFLECTION AND CAMBER (INCHES).

DESCRIPTION	SPANS 1 AND 4			SPANS 2 AND 3			
	1/4 PT.	CTR. PT.	3/4 PT.	SPLICE	1/4 PT.	CTR. PT.	3/4 PT.
Deflection due to weight of steel.	.050	.056	.019	.063	.081	.131	.069
Deflection due to remaining D.L.	.203	.226	.075	.254	.329	.530	.279
Vertical curve adjustment required	.234	.312	.234	.412	.478	.637	.478
Algebraic Sum	.487	.594	.328	.729	.888	1.298	.826
Required Shop Camber	1/2"	5/8"	5/16"	3/4"	7/8"	1 5/16"	13/16"



BOLTED BEAM SPLICE ① DETAILS

HALF PLAN OF STEEL FRAMING



LAYOUT DIAGRAM

FOR DETAILS OF	See Std. Drawing
End Dam & End Crossframes	SD-1-65, Sh.1.
Scuppers (Type 1)	SD-1-65, Sh.2.
Curb Plates	SD-1-65, Sh.2
Bearings (Plates)	FSB-1-62
Bearings (Rocker R-200)	RB-1-55
Bolted Beam Splices	SD-1-65, Sh.3
Railing and Parapet (Type 1)	BR-1-65, sh.1
Moment Plates	SD-1-65, Sh.2

BURGESS & NIPLE LIMITED — CONSULTING ENGINEERS
COLUMBUS 12, OHIO

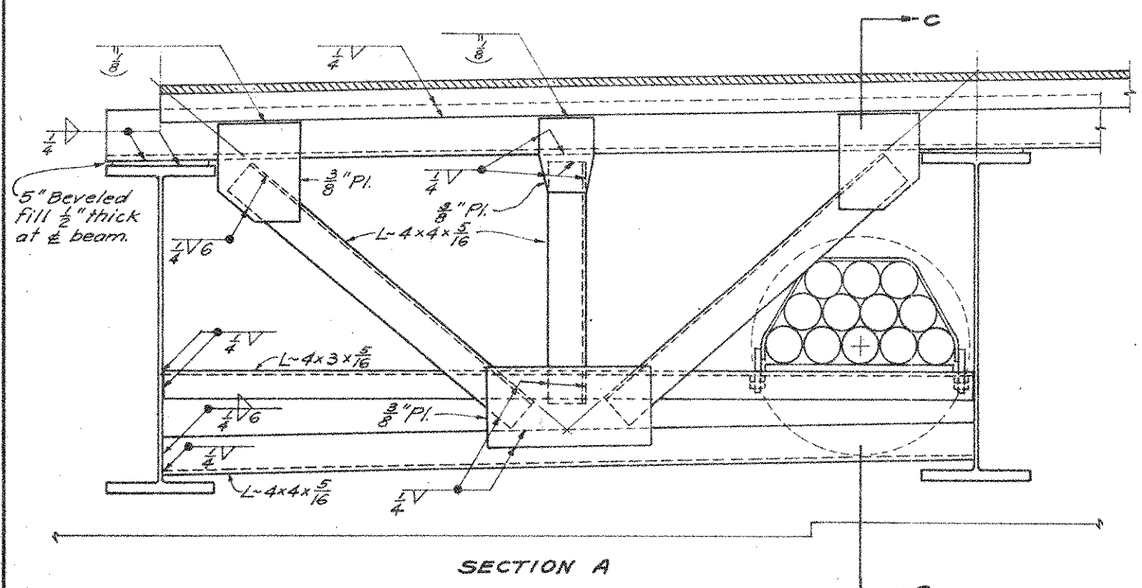
SUPERSTRUCTURE DETAILS
BRIDGE NO FRA-270-1275 S
IR-270 UNDER
LOCKBOURNE ROAD
FRANKLIN COUNTY STA. 596+41.61

DESIGNED	DRAWN	TRACED	CHECKED	REVISIONS DATE	REVISED
KED	KED	KED	DWJ	WAR 6-30-65	

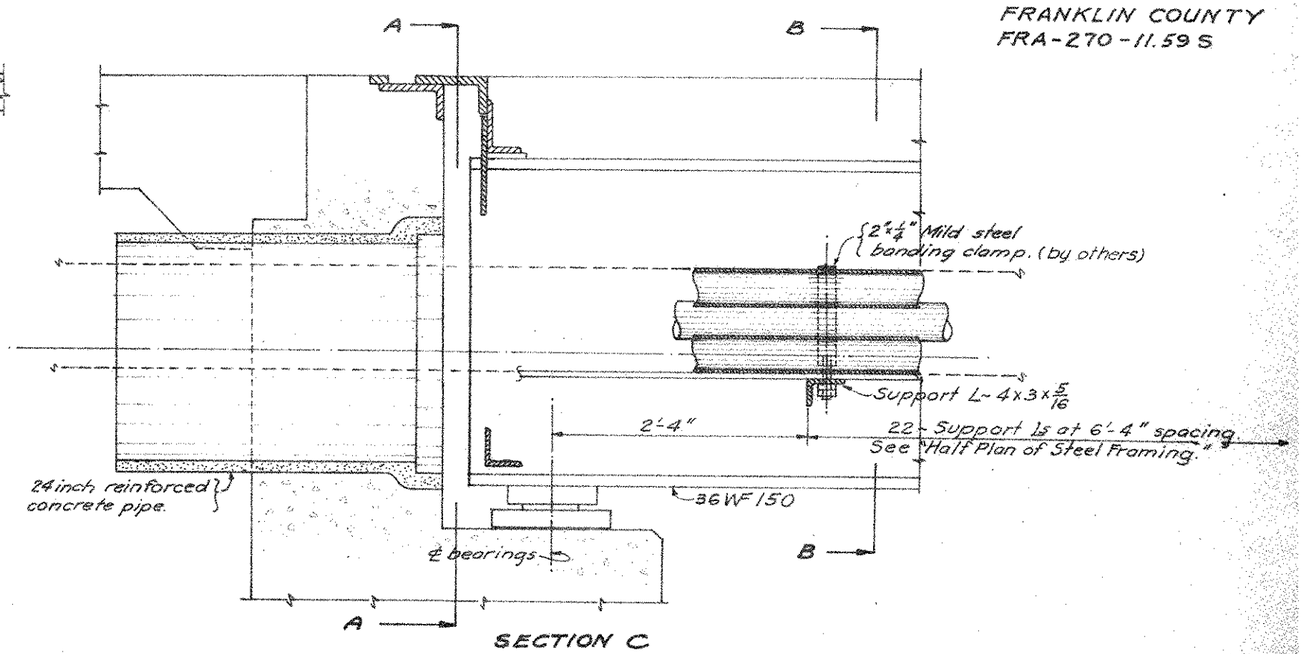
FED. ROAD DIV. NO.	STATE	FED. AID PROJ. NO.	TYPE FUNDS
2	OHIO		

274
332

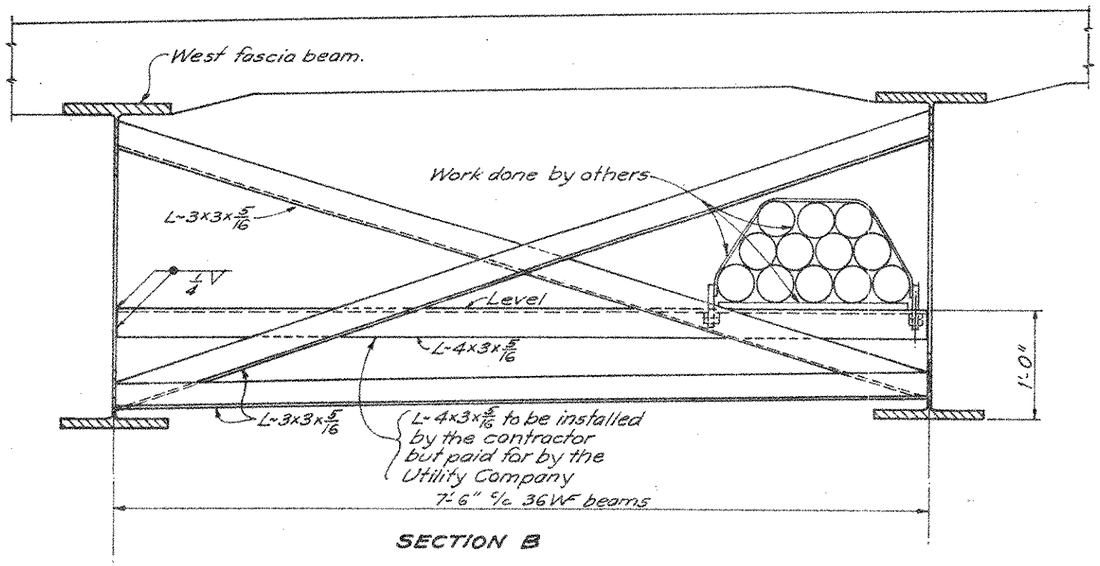
FRANKLIN COUNTY
FRA-270-11.59 S



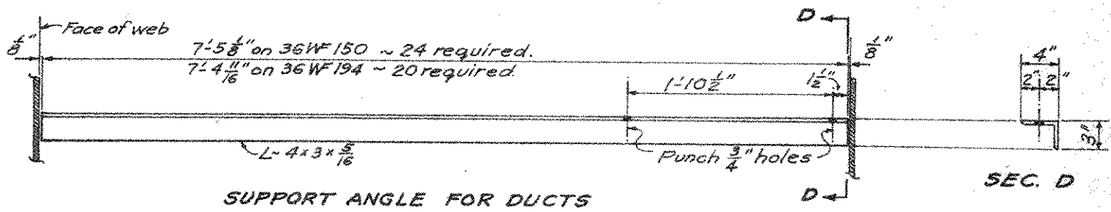
SECTION A



SECTION C



SECTION B



SUPPORT ANGLE FOR DUCTS

SEC. D

BURGESS & NIPLE LIMITED — CONSULTING ENGINEERS
COLUMBUS 12, OHIO

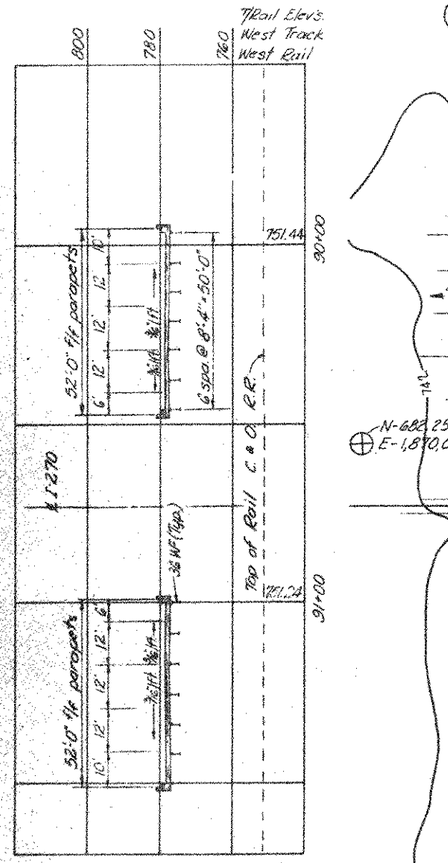
TELEPHONE DUCT INSTALLATION
BRIDGE NO. FRA-270-1275S
IR 270 UNDER
LOCKBOURNE ROAD
FRANKLIN COUNTY STA. 596+41.61

DESIGNED	DRAWN	TRACED	CHECKED	REVISED DATE	REVISED
KED	KED	KED	W&R	W&R 3-15-66	

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

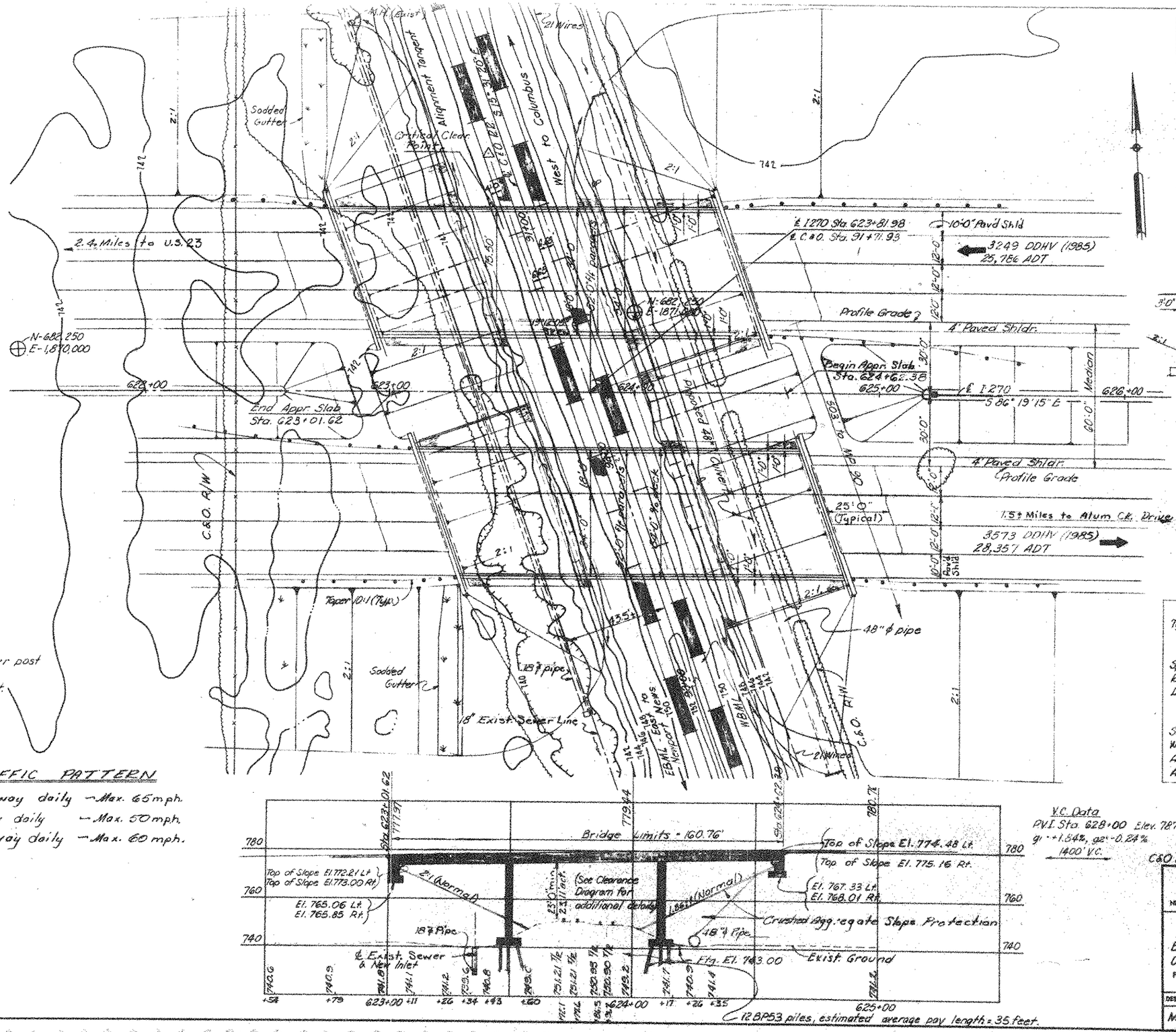
FRANKLIN COUNTY FRA-270-11.59 S.

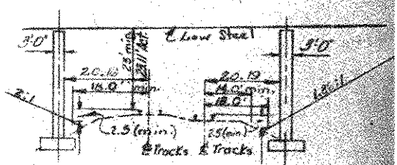
275
332



B.M. 1. ℄ I-270 Sta. 616+71, 262' Lt.
R.R. spike E. side fence corner post
Elev. 743.320

B.M. 2. ℄ I-270 Sta. 628+53, 288' Rt.
R.R. spike root N. side 16" oak
Elev. 744.043





RAILROAD TRAFFIC PATTERN

1 - Passenger train each way daily — Max. 65 mph.
6 - Freight trains each way daily — Max. 50 mph.
3 - Manifest trains each way daily — Max. 60 mph.

PROPOSED STRUCTURE
Type: 3-Span Continuous Steel Beams with reinforced concrete deck and "T" type piers.
Spans: 48'-0", 60'-0", 48'-0" ℄ Brgs.
Roadway: 2 @ 52'-0" ℄ of parapets
Load Frequency: CF=2000 (37)
Adequate for AASHO alternate loading.
Skew: 19° 12' 05" Rt. Fwd.
Wearing Surface: 1" Monolithic Conc.
Approach Slab: 45-1-54 (25' long)
Alignment: Tangent

V.C. Data
P.V.I. Sta. 628+00 Elev. 787.47
g1 = +1.84%, g2 = -0.24%
1400' V.C.

C&O Ry. Designation Bridge FH 901

DE LEUW, CATHER & BRILL
CONSULTING ENGINEERS
NEW YORK, N.Y. • COLUMBUS, OHIO • BUFFALO, N.Y.

SITE PLAN

BRIDGE NO. FRA-270-1326S LT. & RT.
OVER CHESAPEAKE & OHIO RAILROAD
FRANKLIN COUNTY
COLUMBUS OUTERBELT
STA. 623+81.98

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
M.M.	Y.N.	V.L.F.	Y.N.	M.M.	3-10-66	

FED. ROAD DIV. NO.	STATE	FED. AID PROJ. NO.	TYPE FUNDS
2	OHIO		

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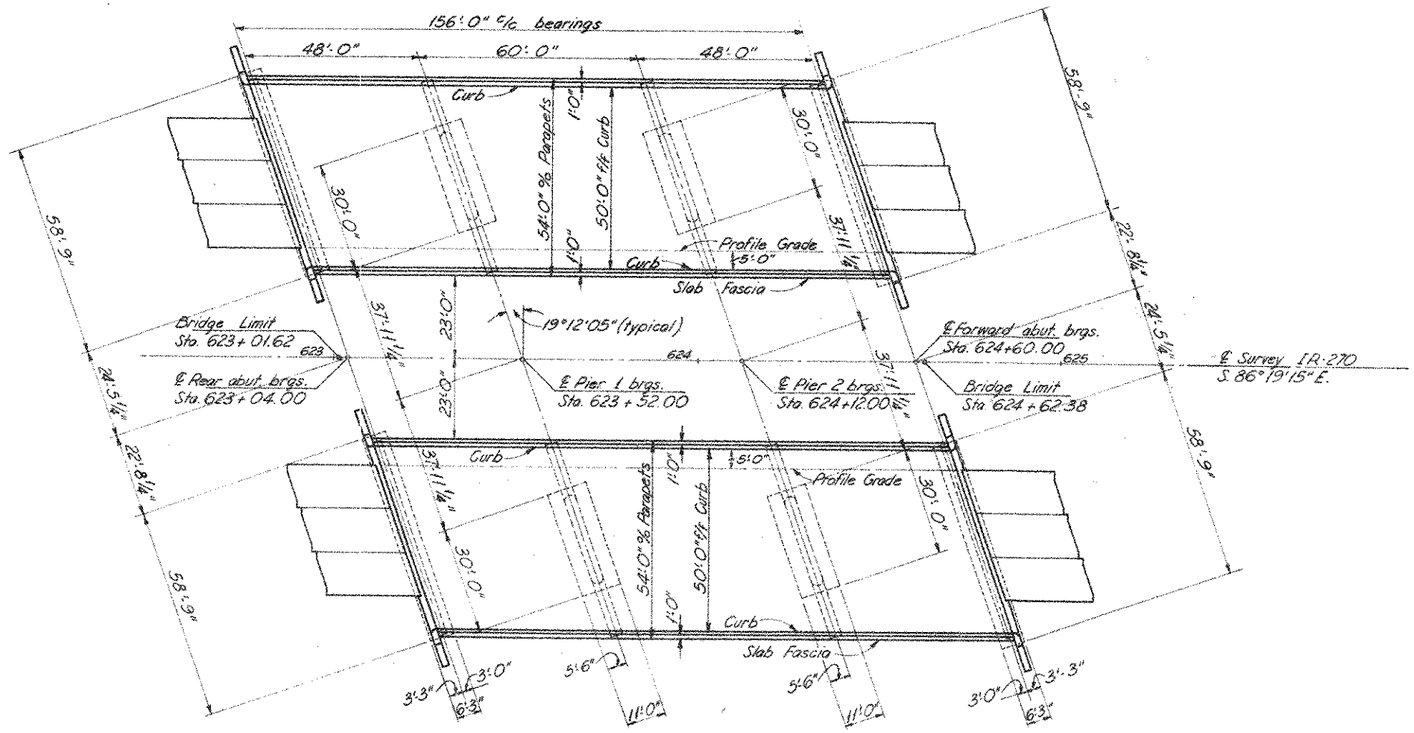
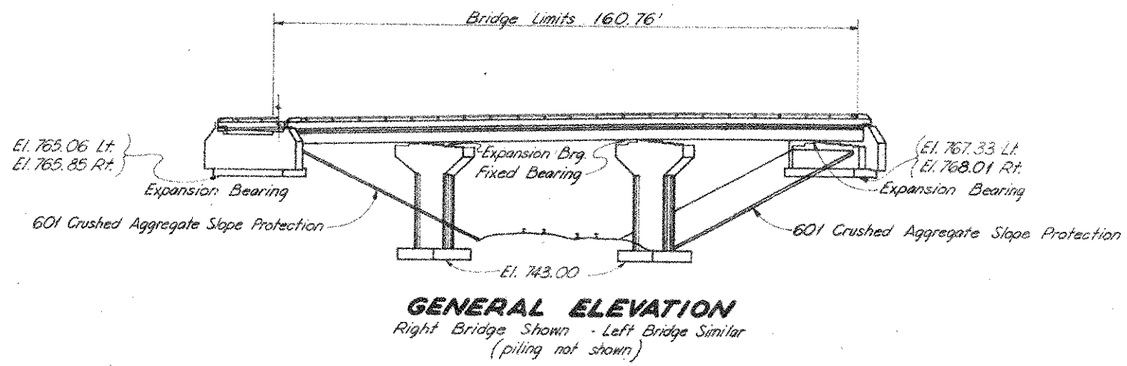
332

FRANKLIN COUNTY
FRA-270-11.59 S.



GENERAL PLAN

For Approach Slab Details see Standard Drawing AS-1-54.



GENERAL ELEVATION

Right Bridge Shown - Left Bridge Similar
(piling not shown)

BURGESS & NIPLE LIMITED — CONSULTING ENGINEERS
COLUMBUS 13, OHIO

GENERAL PLAN
BR. NO. FRA-270-1326 S. L & R
IR-270 OVER
CHESAPEAKE & OHIO RAILROAD

FRANKLIN COUNTY STA. - 623+81.98

DESIGNED	DRAWN	TRACED	CHECKED	REVISED DATE	REVISED
BWJ	D.W.		KED	Rec'd 5-16-66	

FED. ROAD DIV. NO.	STATE	FED. AID PROJ. NO.	TYPE FUNDS
2	OHIO		

277
332

FRANKLIN COUNTY
FRA-270-11.59S.

BR. N° FRA-270-1326S L&R ESTIMATED QUANTITIES (both bridges)

Item	Total	Unit	Description	Super.	Abut.	Piers	Gen.
503	Lump	Sum	Cofferdams, cribs & sheeting				Lump
503	1130	Cu.Yd	Unclassified excavation		635	495	
505	Lump	Sum	First test pile				Lump
506	Lump	Sum	First test pile load				Lump
506	1	each	Subsequent pile test load				1
507	3360	lin. ft.	Steel piles, 12 BP53			3360	
509	256,900	lbs.	Reinforcing Steel	160,028	19,221	77,651	
511	506	cu.yd.	Class "C" concrete, superstructure	506			
511	347	cu.yd.	Class "C" concrete, piers above footings			347	
511	297	cu.yd.	Class "E" concrete, abutments above footings		297		
511	266	cu.yd.	Class "E" concrete, footings		119	147	
512	36	lin. ft.	Waterproofing, premolded sealing strip		36		
513	417,600	lbs.	Structural Steel	417,600			
514	417,600	lbs.	Field painting of structural steel	417,600			
517	644.00	lin. ft.	Bridge railing, Type 1	644.00			
518	116	cu.yd.	Porous backfill		116		
518	224	lin. ft.	6" perforated helical C.M.P. 707.06 incl. specials		224		
518	196	lin. ft.	6" helical C.M.P. 707.06 non-perforated		196		
518	20	each	Scuppers, including supports	20			
601	1800	Sq.Yd.	Crushed aggregate slope protection		1800		
808	506	Units	Water-reducing, set-retarding admixture	506			
825	2130	Sq.Yd.	Concrete Surface Treatment	2080	50		
828	212	lin. ft.	Joint Sealer (end dam)	212			

DESIGN SPECIFICATIONS: This structure conforms to the requirements of "Design Specifications for Highway Structures" of the State of Ohio, Department of Highways, dated 9-1-57, together with current revisions thereof.

REFERENCE shall be made to Standard Drawings: SD-1-65 dated 11-8-65, sht. 1, 2 & 3

BR-1-65 sht. 1, rev. 11-24-65
AS-1-54 revised 8-10-65
and to Supplemental Specifications 808 dated 2-7-66, 811 dated 3-29-65, 825 dated 4-22-65 and 828 dated 3-21-66.

DESIGN DATA:
Design Loading - C.F. 2000 (57)
Concrete Class "C" basic unit stress 1,333 psi.
Concrete Class "E" basic unit stress 1,133 psi.
Structural Steel - A.S.T.M. A36 - basic unit stress 20,000 psi.

Reinforcing Steel - ASTM A15, A16, A160, Deformed, Intermediate or Hard Grade. Basic unit stress 20,000 psi.

RAILROAD AERIAL LINES will be relocated by the railroad. The Contractor shall use all precautions necessary to see that the lines are not disturbed during the construction stage and shall cooperate with the railroad in the relocation of these lines. The cost of the relocation shall be included in the railroad force account work.

ALIGNING RAILROAD TRACKS: After the Contractor has completed all excavation and backfill adjacent to the railroad tracks in compliance with Sec. 503.04 and 503.09 of the Construction and Material Specifications, subject to the Supervision of the Railroad Company, nothing in Sec. 503.04, 503.09 or 108.04 of the Specifications shall be construed to hold the Contractor liable for aligning and resurfacing the railroad tracks.

CONSTRUCTION CLEARANCE of 21'-0" vertically above the top of the railroad rails and 8'-0" horizontally from the center of tracks shall be maintained at all times.

MACHINE FINISH: The concrete bridge deck shall be finished by the use of a finishing machine.

UTILITY LINES: All expense involved in relocating the affected utility lines shall be borne by the owners. The Contractor and owners are requested to cooperate by arranging their work in such a manner that inconvenience to either will be held to a minimum.

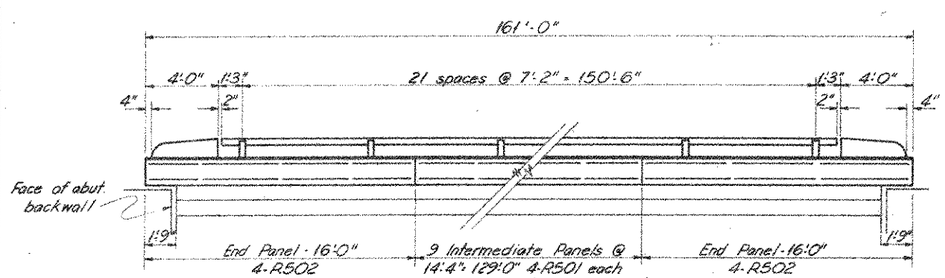
PROCEDURE: The embankment shall be placed and compacted up to the finished spill-thru slope and to the level of the sub-grade for a distance of 200 feet back of the abutments after which excavation may be made for the piers. After a 90 day waiting period, excavation may be made for the abutments.

EXCAVATION QUANTITY includes the removal of fill material required for construction of the abutments and piers.

PILES shall be driven to a minimum bearing capacity of 47 tons per pile for the piers.

FOUNDATION BEARING PRESSURE: Abutment footings are designed for a maximum bearing pressure of 2.1 tons per sq. ft.

SHEETING AND BRACING: Before construction is started, eight sets of prints showing details of the sheeting and bracing to be used for excavation adjacent to the railroad tracks shall be submitted to the Director for approval by the Department of Highways and by the Railroad Company.



RAILING & PARAPET DETAILS

For additional details see Standard Drawing BR-1-65

BURGESS & NIPLE LIMITED — CONSULTING ENGINEERS
COLUMBUS 13, OHIO

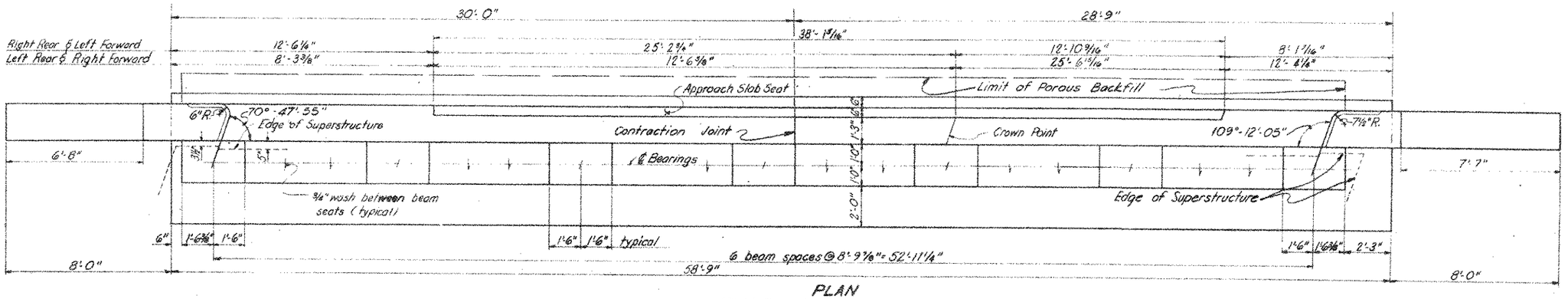
ESTIMATED QUANTITIES & GENERAL NOTES
RAILING DETAILS
BR. NO. FRA-270-1326S. L&R.
IR 270 OVER
CHESAPEAKE & OHIO RAILROAD
FRANKLIN COUNTY STA. 623+81.98

DESIGNED	DRAWN	TRACED	CHECKED	REVISED DATE	REVISED
GDD	D.W.		KED	a/cR 8-16-66	

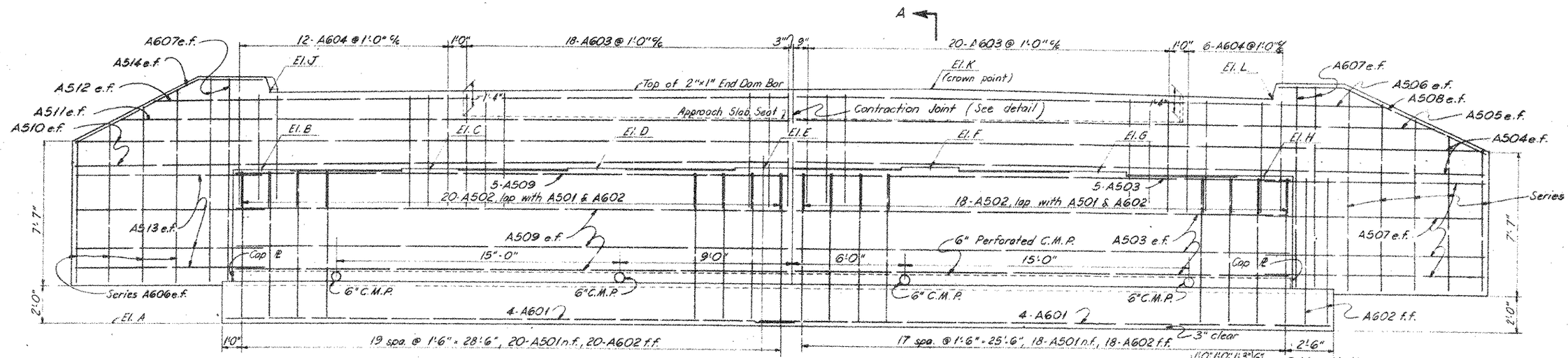
FED ROAD DIV NO	STATE	FED AID PROJ. NO.	TYPE FUNDS
2	OHIO		

278
332

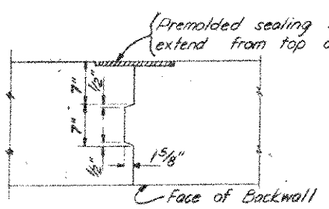
FRANKLIN COUNTY
FRA-270-11.59S.



PLAN
(Right Rear Abutment Shown, others similar)



ELEVATION



CONTRACTION JOINT DETAIL

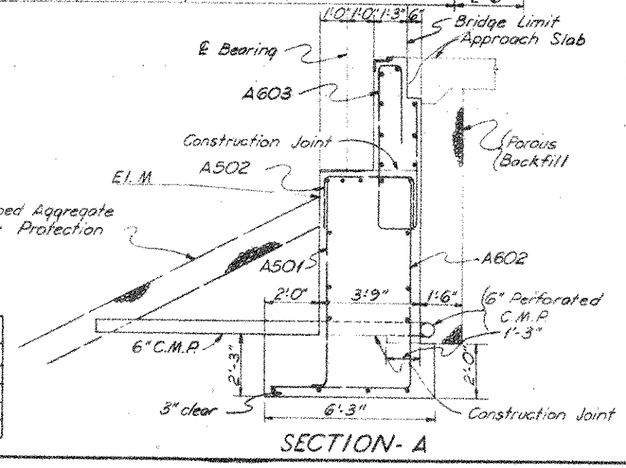
BRIDGE SEAT REINFORCING: Special care shall be taken in placing reinforcing steel in the vicinity of the bridge seat so as to avoid interference with the drilling of anchor bar holes.

CONCRETE shall be Class "E", fc = 1133 psi.

TABLE OF ELEVATIONS

Abutment	El. A	El. B	El. C	El. D	El. E	El. F	El. G	El. H	El. J	El. K	El. L	El. M
Right Rear	765.85	774.01	774.10	774.18	774.27	774.34	774.17	774.00	778.09	778.42	778.07	773.00
Left Rear	765.06	773.73	773.81	773.90	773.73	773.56	773.38	773.21	777.80	777.97	777.26	772.21
Right Forward	768.01	776.19	776.36	776.53	776.44	776.35	776.26	776.16	780.31	780.45	780.28	775.16
Left Forward	767.23	775.48	775.65	775.82	775.99	776.15	776.06	775.97	779.60	780.27	780.08	774.48

A



SECTION- A

ABUTMENT LAYOUT: For abutment layout dimensions see sheet 276.

LEGEND
n.f. near face
f.f. far face
e.f. each face

BURGESS & NIPLE LIMITED — CONSULTING ENGINEERS
COLUMBUS 12, OHIO

ABUTMENT DETAILS
BR NO FRA-270-1926S L & R
IR 270 OVER
CHESAPEAKE & OHIO RAILROAD

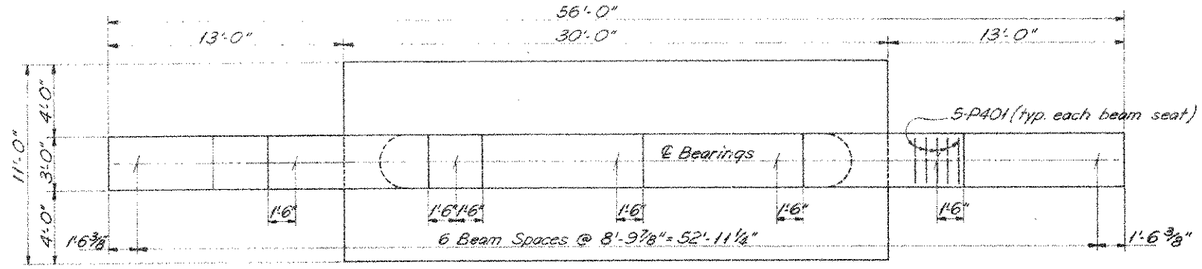
FRANKLIN COUNTY STA. 623+81.93

DESIGNED	DRAWN	TRACED	CHECKED	REVISED DATE	REVISED
WEB	DW		DJ	WEB 8-16-66	

FED. ROAD DIV. NO.	STATE	FED. AID PROJ. NO.	TYPE FUNDS
2	OHIO		

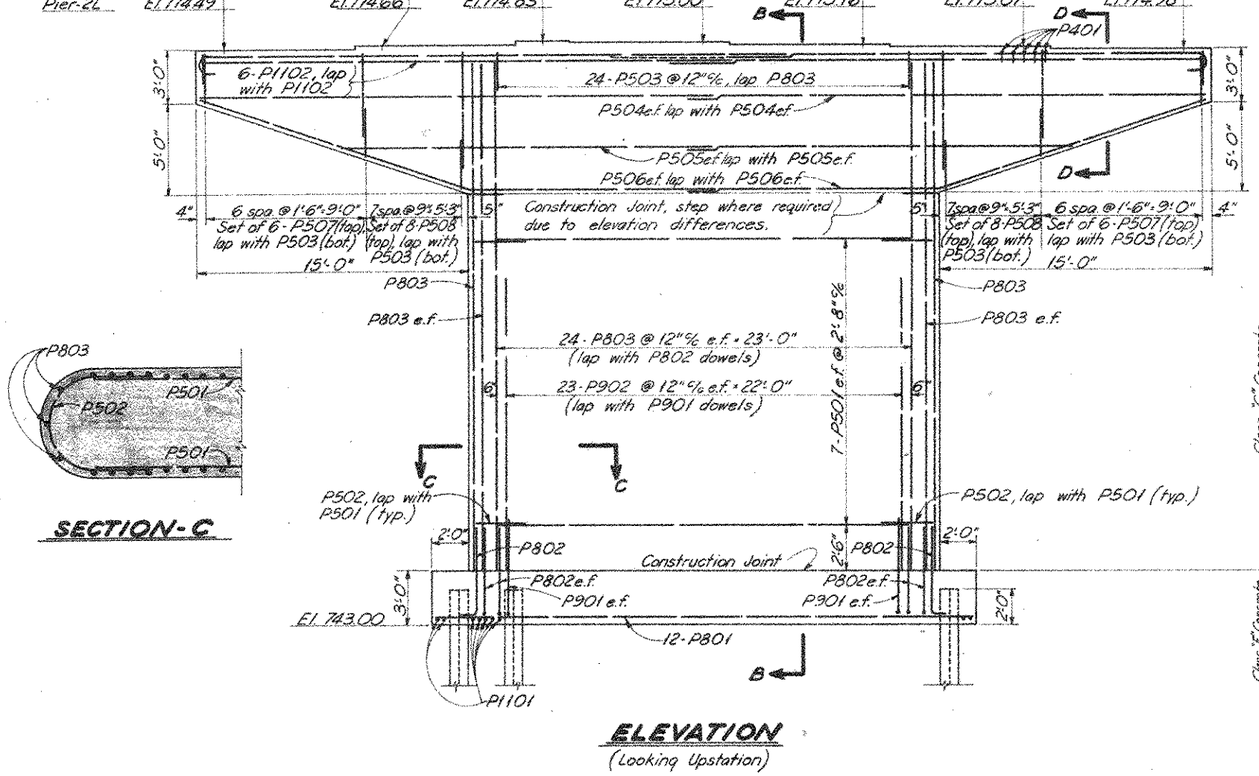
279
332

FRANKLIN COUNTY
FRA-270-11.59 S.



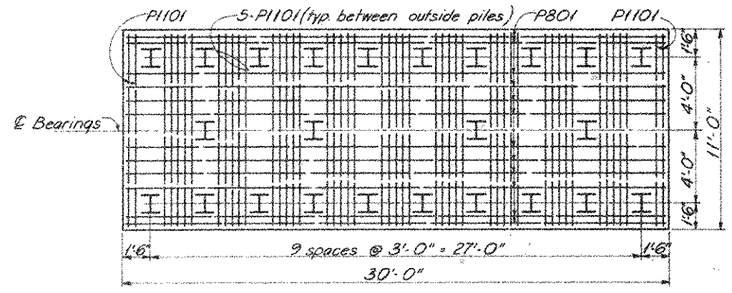
PLAN

Pier-1R	El. 774.67	El. 774.84	El. 775.01	El. 774.93	El. 774.85	El. 774.76	El. 774.67
Pier-1L	El. 773.90	El. 774.08	El. 774.25	El. 774.42	El. 774.59	El. 774.50	El. 774.41
Pier-2R	El. 775.22	El. 775.39	El. 775.56	El. 775.48	El. 775.39	El. 775.30	El. 775.21
Pier-2L	El. 774.49	El. 774.66	El. 774.83	El. 775.00	El. 775.16	El. 775.07	El. 774.98

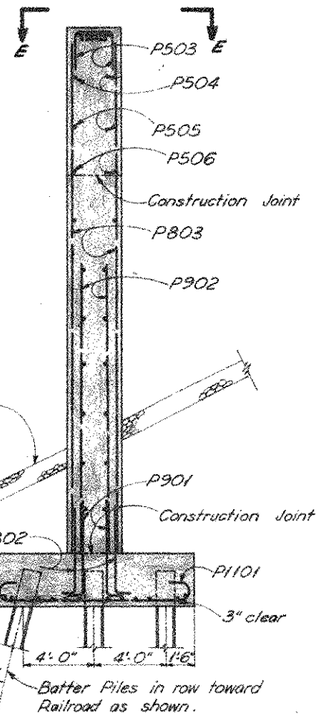


ELEVATION
(Looking Upstation)

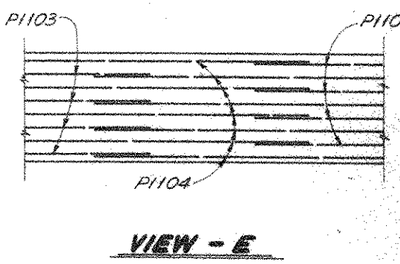
SECTION-C



FOOTING PLAN



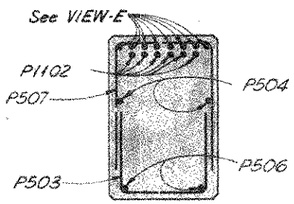
SECTION-B



VIEW - E

BRIDGE SEAT REINFORCING: Special care shall be taken in placing reinforcing steel in the vicinity of the bridge seat so as to avoid interference with the drilling of anchor bar holes.

PIER LAYOUT: For pier layout dimensions see sheet 276



SECTION-D

BURGESS & NIPLE LIMITED — CONSULTING ENGINEERS
COLUMBUS 12, OHIO

PIER DETAILS
BR. NO FRA-270-1326 S. L & R
I R 270 OVER
CHESAPEAKE & OHIO RAILROAD

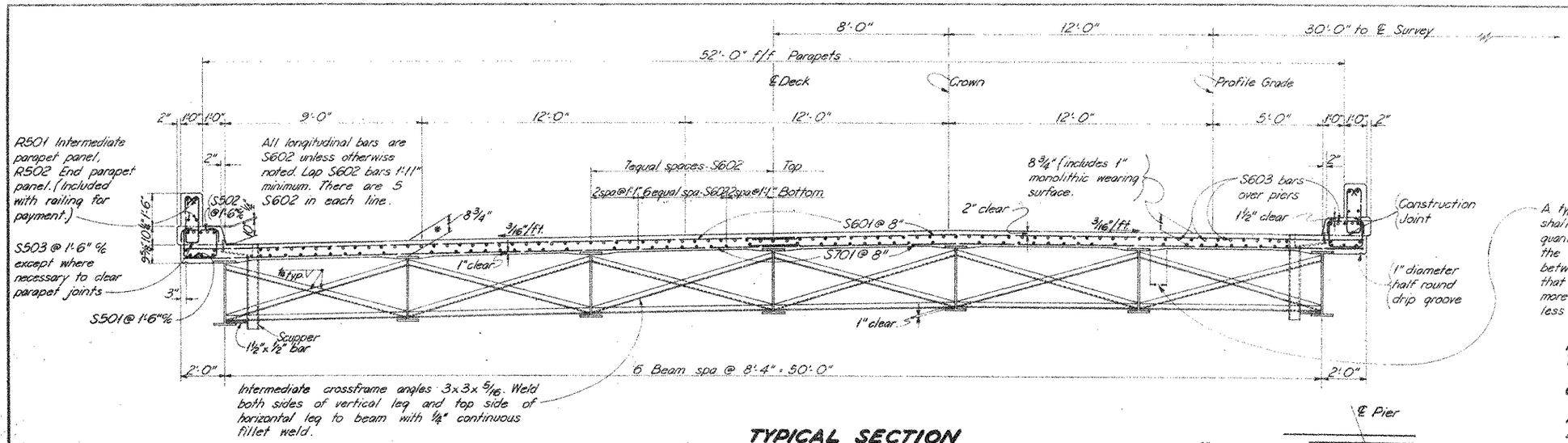
FRANKLIN COUNTY STA. 623+81.93

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED DATE	REVISED
KED	D.W.		KED	WER 3-16-66	

FED. ROAD DIV. NO.	STATE	FED. AID PROJ. NO.	TYPE FUNDS
2	OHIO		

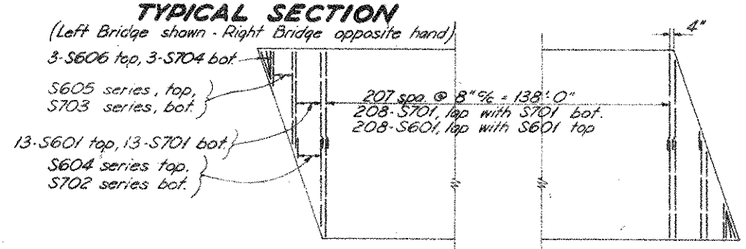
280/332

FRANKLIN COUNTY
FRA-270-11.59 S.



TYPICAL SECTION

(Left Bridge shown - Right Bridge opposite hand)



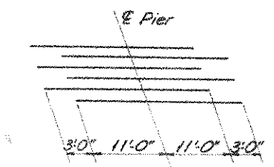


DIAGRAM SHOWING STAGGER OF S603 BARS OVER PIERS

RAILING shall be aluminum with concrete parapet, Type 1, Standard Drawing BR-1-65.

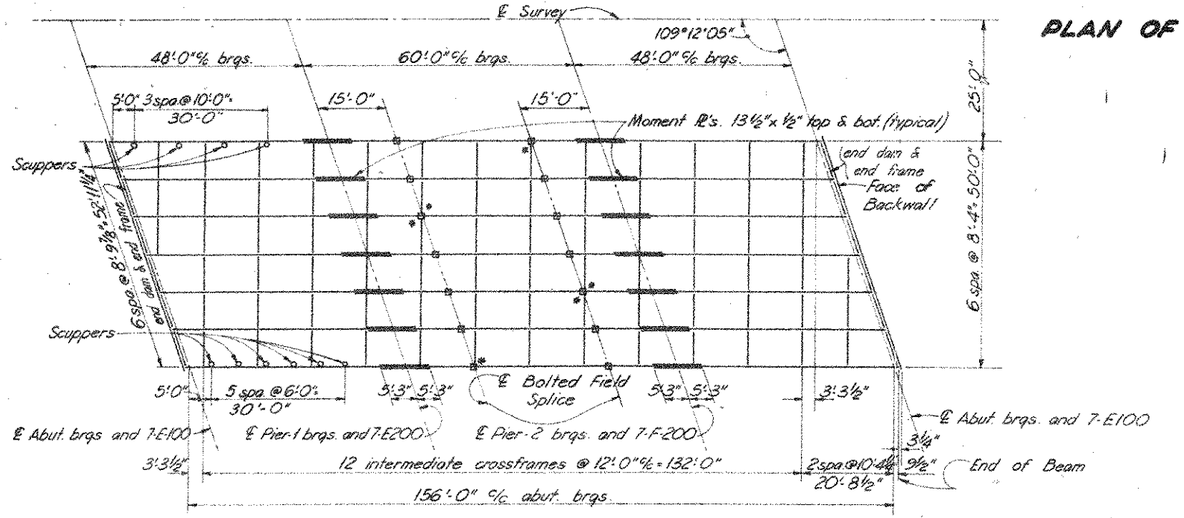
CONCRETE shall be class "C" fc = 1333 p.s.i.

MACHINE FINISH. The concrete bridge deck shall be finished by the use of a finishing machine.

SLAB THICKNESS shown includes 1" for monolithic wearing surface.

* This is a nominal dimension. The quantity of deck concrete to be paid for shall be based on this dimension even though deviation from it may be necessary because the top flange of the beam may not have the exact camber or conformation required to place parallel to the finish grade.

PLAN OF DECK REINFORCING



* Shift crossframes to clear web splice. All beams 36 WF 150.

FRAMING PLAN

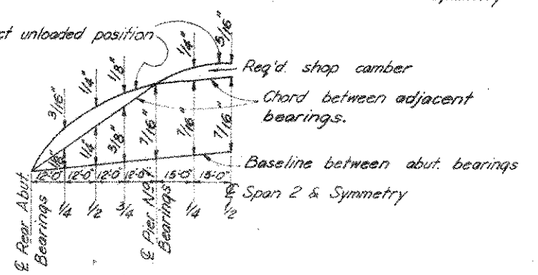
(Right Bridge shown. Left Bridge Similar)

DEFLECTION & CAMBER TABLE

(in inches)	SPAN 1			SPAN 2	
	¼	½	¾	¼	½
Deflection due to weight of steel	.026	.031	.014	.026	.041
Deflection due to remaining dead load	.139	.161	.073	.134	.217
Adjustment Required for Vertical Curve	.037	.049	.037	.059	.079
Sum	.202	.241	.124	.219	.337
Required Shop Camber	3/16"	1/4"	1/8"	1/8"	5/16"

℄ Span 2 and symmetry

Beam in correct unloaded position



LAYOUT DIAGRAM

WELDING: Any welds shown as field welds may, at the option of the Contractor, be made in the shop.

FOR DETAILS OF:	SEE STD. DWG.
Bolted Beam Splice	SD-1-65, sh 3
End Dam & End Crossframes	SD-1-65, sh. 1
Scuppers, Type 1	SD-1-65, sh. 2
Curb Plates	SD-1-65, sh. 2
Bearings	FSB-1-62
Railing & Parapet	BR-1-65, sh. 1
Moment Plates	SD-1-65, sh. 2

BURGESS & NIPLE LIMITED — CONSULTING ENGINEERS
COLUMBUS 12, OHIO

SUPERSTRUCTURE DETAILS
BR. NO. FRA-270-1326 S L & R
IR 270 OVER
CHESAPEAKE & OHIO RAILROAD

FRANKLIN COUNTY STA-623+81.98

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED DATE	REVISED
BWD	D.W.		KED	W&P 3-16-66	

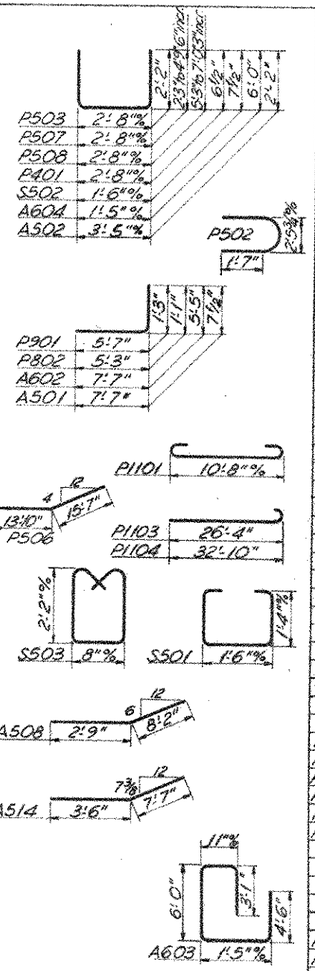
FED. ROAD DIV. NO.	STATE	PROJ. NO.	TYPE FUNDS
2	OHIO		

281/332

FRANKLIN COUNTY
FRA-270-11.59S.

BR. No FRA-270-1279S.L&R REINFORCING STEEL LIST (both bridges)

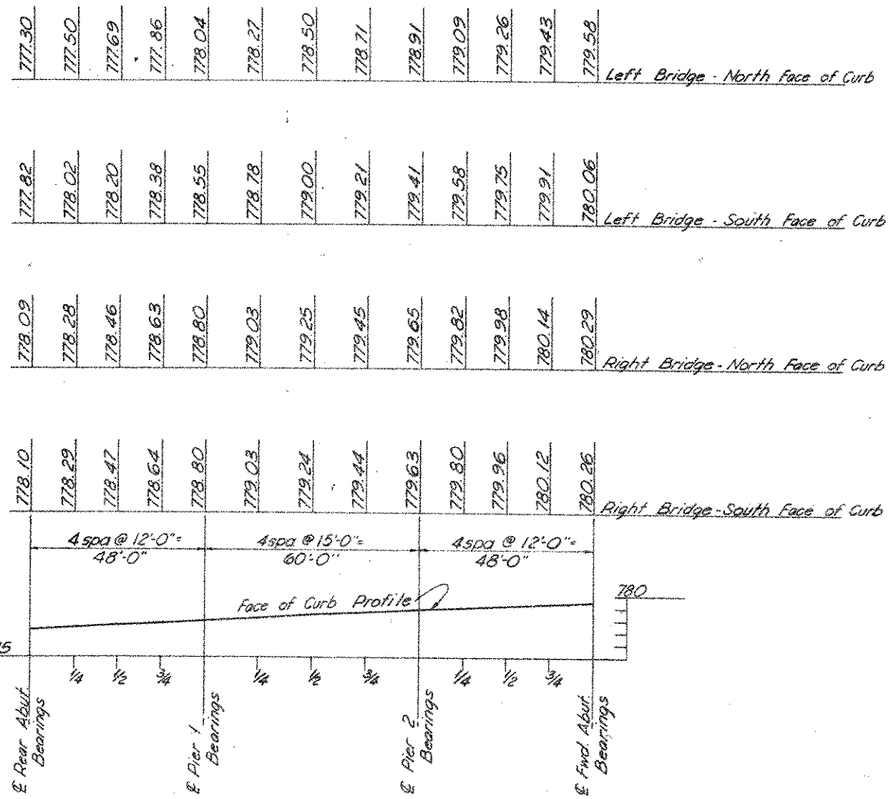
Mark	No.	Length	Weight	Shape	Incr.
SUPERSTRUCTURE					
S701	884	27'-11"	50,443	S	
S702	4 Sets 13 / 12	26'-11" / 27'-9"	3'-11" / 6'-8"	1639	S	1'-11"
S703	4 Sets 12	27'-9"	6'-8"	1198	S	1'-11"
S704	12	5'-9"		141	S	
S601	884	27'-10"		36,956	S	
S602	1,110	33'-0"		55,018	S	
S603	176	26'-0"		6609	S	
S604	4 Sets 13 / 12	26'-10" / 27'-9"	3'-10" / 6'-8"	1198	S	1'-11"
S605	4 Sets 12	27'-9"	6'-8"	880	S	1'-11"
S606	12	5'-9"		104	S	
S501	424	4'-11"		2174	B	
S502	424	2'-6"		1106	B	
S503	440	5'-7"		2562	B	
PIERS					
P1101	196	13'-10"		14,405	B	
P1102	48	29'-7"		7544	S	
P1103	32	27'-11"		4746	B	
P1104	32	34'-5"		5851	B	
P901	184	6'-7"		4119	B	
P902	184	18'-0"		11,261	S	
P801	48	29'-8"		3802	S	
P802	216	6'-2"		3556	B	
P803	216	27'-10"		16,052	S	
P501	56	23'-0"		1343	S	
P502	56	7'-0"		409	B	
P503	208	6'-9"		1464	B	
P504	16	28'-8"		478	S	
P505	16	21'-2"		353	S	
P506	16	29'-5"		491	B	
P507	8 Sets 6	6'-11" / 7'-11"		471	B	12"
P508	8 Sets 8	13'-1" / 16'-5"		979	B	6"
P401	140	3'-6"		327	B	



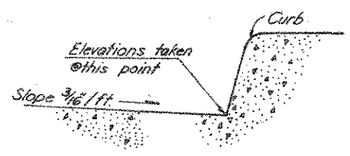
Mark	No.	Length	Weight	Shape	Incr.
ABUTMENTS					
A601	32	30'-2"	1450	S	
A602	160	12'-10"	3084	B	
A603	152	15'-3"	3482	B	
A604	72	13'-1"	1415	B	
A605	8 Sets 5	7'-4"	561	S	12"
A606	8 Sets 4	7'-4" / 10'-10"	437	S	12"
A607	32	10'-8"	513	S	
A501	152	8'-1"	1281	B	
A502	152	7'-6"	1189	B	
A503	44	26'-2"	1201	S	
A504	16	36'-5"	608	S	
A505	8	33'-8"	281	S	
A506	8	31'-3"	261	S	
A507	32	11'-10"	395	S	
A508	8	10'-11"	91	B	
A509	44	29'-2"	1339	S	
A510	16	37'-8"	629	S	
A511	8	35'-4"	295	S	
A512	8	33'-6"	280	S	
A513	32	10'-1"	337	S	
A514	8	11'-1"	92	B	
RAILING					
R501	144	14'-0"		S	
R502	32	15'-8"		S	
R503	24	4'-2"		B*	
R504	16	5'-4"		B*	
R505	16	3'-5"		B*	
R506	16	3'-0"		S	
REPLACEMENT BARS					
RE1101	2	7'-6"		S	
RE901	1	6'-10"		S	
RE801	2	6'-6"		S	
RE701	3	6'-2"		S	
RE601	6	5'-11"		S	
RE501	2	5'-7"		S	
RE401	1	5'-3"		S	

16 as indicated with railing for payment

* See Std. Dwg. BR-1-65 for details.



FACE OF CURB SETTING ELEVATIONS
(before placement of deck concrete)



ELEVATION POINT DETAIL

BAR SIZE is indicated in the bar mark. The first digit where three digits are used, and the first two digits where four are used, indicate the bar size number. For example A601 is a No.8 size bar and P1101 is a No.11 size.

BURGESS & NIPLE LIMITED — CONSULTING ENGINEERS
COLUMBUS 12, OHIO

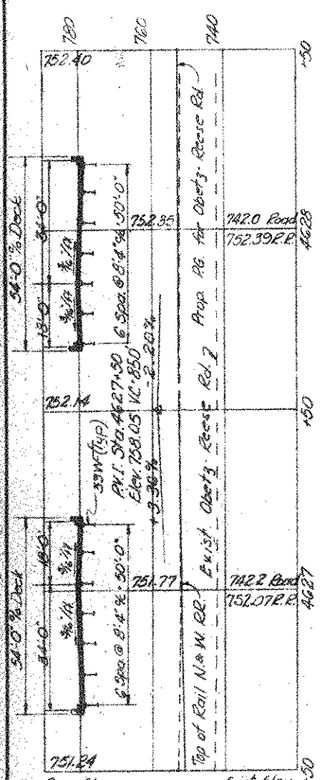
REINFORCING STEEL LIST & FACE OF CURB ELEVATIONS
BR. NO. FRA-270-1326 S. L & R
IR-270 OVER
CHESAPEAKE & OHIO RAILROAD
FRANKLIN COUNTY STA. 623+81.98

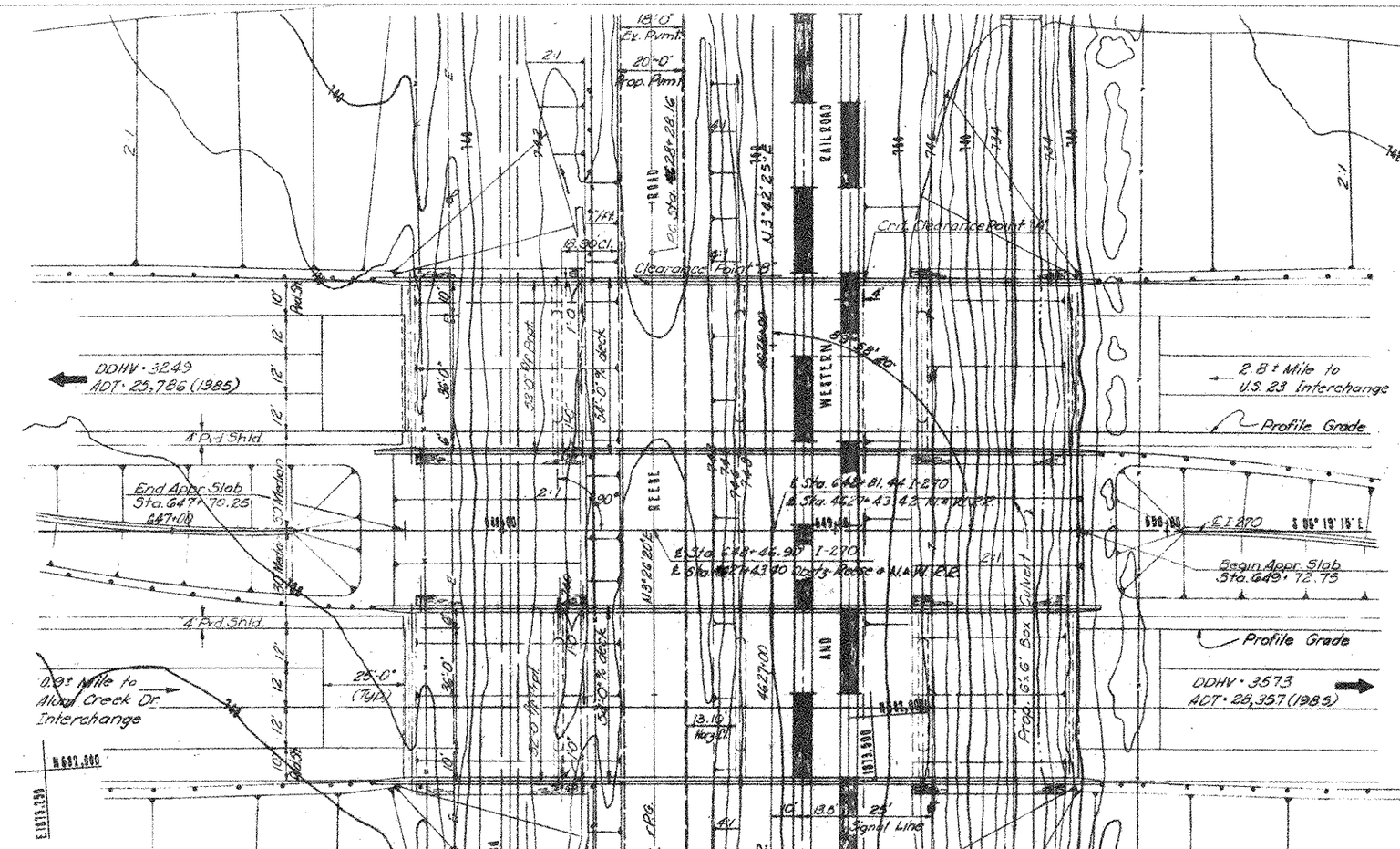
DESIGNED	DRAWN	TRACED	CHECKED	REVISED DATE	REVISED
BWJ	D.W.		K.E.D.	W&B 3-16-60	

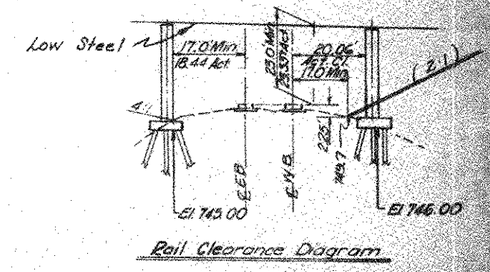
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

282 / 332

FRANKLIN COUNTY FRA-270-11.59 S.







Rail Clearance Diagram

Daily Traffic Pattern
2- Passenger trains @ 78 mph
16- Freight trains @ 65 mph

PROPOSED STRUCTURE

TYPE: 4 Span Continuous Steel Beams with reinforced concrete deck and substructure
SPANS: 44'-0", 55'-0", 55'-0", 44'-0" ℄ brgs.
ROADWAY: 2@52'-0" ℄ of parapets
LOAD FREQUENCY: CF: 2000 (57) Adequate for AASHO alternate loading.
SKEW: None
WEARING SURFACE: 1" Monolithic Concrete
APPROACH SLAB: AS-1-54 (25' long)
ALIGNMENT: Tangent

PILING:- 12" reinforced cast-in-place concrete piles. Estimated average pay length:

Pier 1	Left - 45 ft.	Right - 30 ft.
Pier 2	Left - 20 ft.	Right - 25 ft.
Pier 3	Left - 25 ft.	Right - 25 ft.

B.M. 1 ℄ I-270 Sta. 641+70, 353' Lt. R.R. Spike root N. side 36" Hackberry
Elev. 738.843

B.M. 2 ℄ I-270 Sta 632+35, 270' Rt. R.R. Spike N side 12" Elm
Elev. 745.149

DE LEUW, CATHER & SIRRL
CONSULTING ENGINEERS
NEW YORK, N.Y. • COLUMBUS, OHIO • BUFFALO, N.Y.

SITE PLAN

BRIDGE NO. FRA-270-13.72 S.L.T. & Et
OVER OBETZ-REESE Rd. &
NORFOLK & WESTERN R.R.
FRANKLIN COUNTY COLUMBUS QUITMEY
STA. 649+72.75

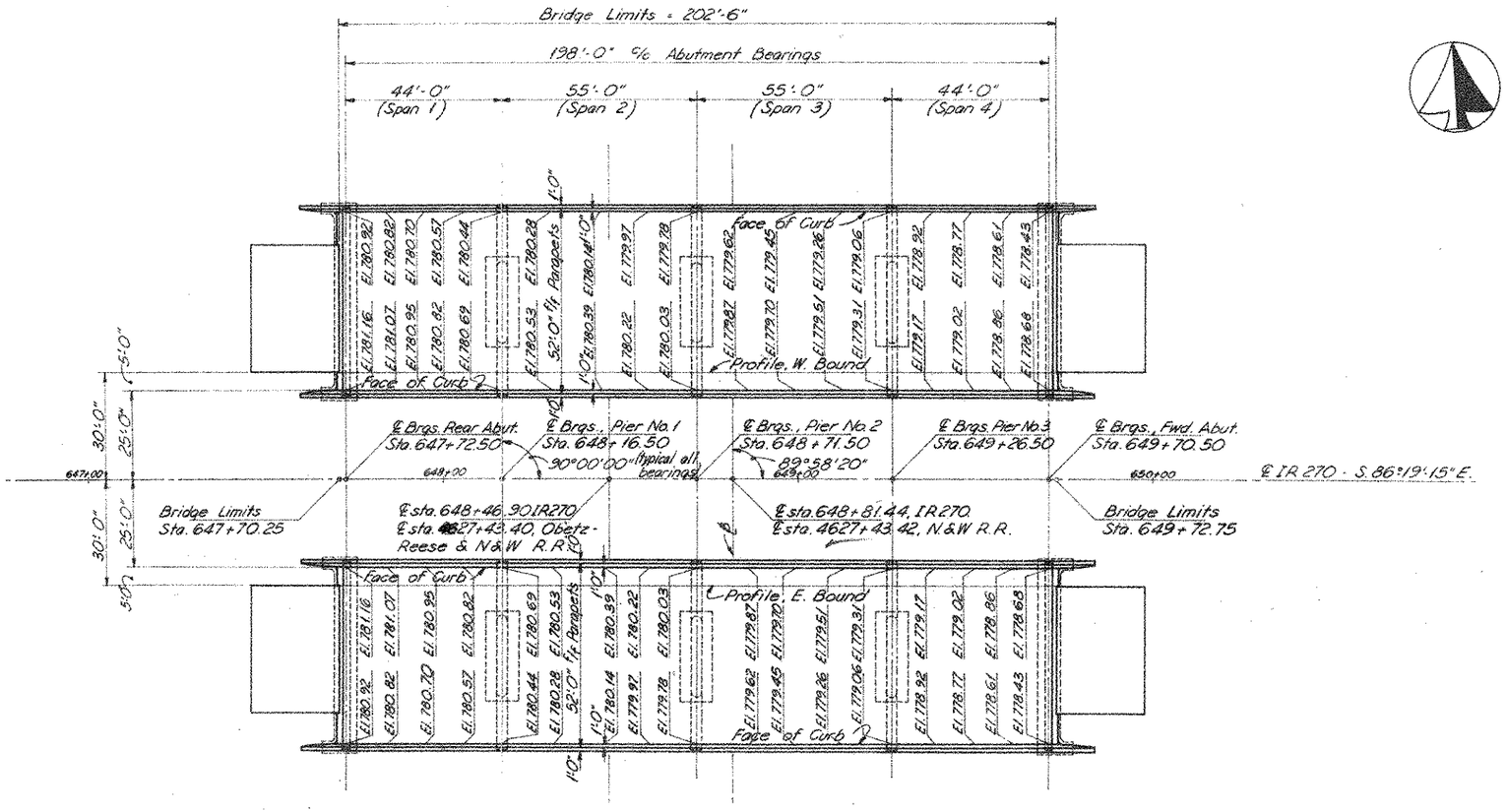
SCALE 1"=20'

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
M.M.	V.N.	V.L.F.		MM WAR 8.16.66		

FED. ROAD DIV. NO.	STATE	FED. AID PROJ. NO.	TYPE FUNDS
2	OHIO		

283
332

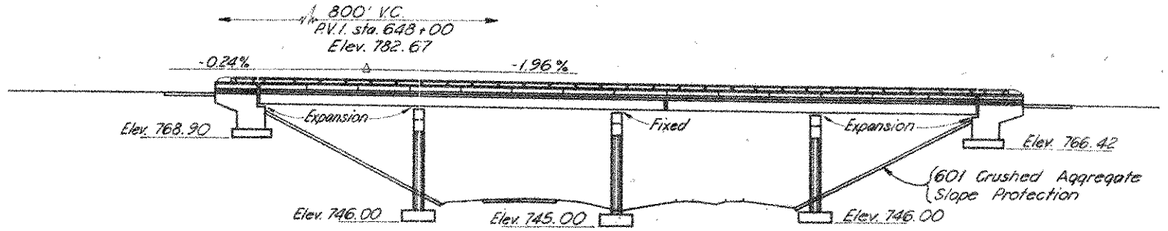
FRANKLIN COUNTY
FRA-270-11.59 S.



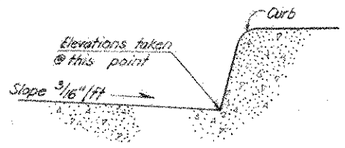
GENERAL PLAN

Note : Elevations shown on plan are face of curb elevations before deck concrete is placed. See detail below. Elevations are taken at the quarter points of each span.

Note : For approach slab details see Standard Drawing AS-1-54.



GENERAL ELEVATION



ELEVATION POINT DETAIL

BURGESS & NIPLE LIMITED — CONSULTING ENGINEERS
COLUMBUS 13, OHIO

GENERAL PLAN
BR. NO. FRA-270-1372 S. L & R
IR 270 OVER OBETZ REESE RD. AND NORFOLK & WESTERN R.R.

FRANKLIN COUNTY — STA. 647+70.25 to STA. 649+72.75

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED DATE	REVISED
SWJ	D.W.		KED	WER 5-16-66	

FED. ROAD DIV. NO.	STATE	FED. AID PROJ. NO.	TYPE FUNDS
2	OHIO		

284/332

FRANKLIN COUNTY
FRA-270-11.59S.

BR. No FRA-270-1372 S. L & R ESTIMATED QUANTITIES (both bridges)

Item	Total	Unit	Description	Super.	Abut.	Piers	Gen.
503	Lump	Sum	Cofferdams, cribs & sheeting				Lump
503	1030	Cu. Yd.	Unclassified excavation		570	460	
505	Lump	Sum	First test pile				Lump
506	Lump	Sum	First test pile load				Lump
506	1	each	Subsequent pile test load				1
507	3060	lin. ft.	Steel piles, 12BP53			3060	
509	301,507	lbs.	Reinforcing Steel	205,212	18,284	78,011	
511	640	cu. yd.	Class "C" concrete, superstructure	640			
511	538	cu. yd.	Class "C" concrete, piers above footings			538	
511	277	cu. yd.	Class "E" concrete, abutments above footings		277		
511	273	cu. yd.	Class "E" concrete, footings		119	154	
513	462,000	lbs.	Structural Steel	462,000			
514	462,000	lbs.	Field painting of structural steel	462,000			
517	893.33	lin. ft.	Bridge Railing, Type 1	800.00	93.33		
518	107	cu. yd.	Porous backfill		107		
518	184	lin. ft.	6" perforated helical C.M.P. 707.06 incl. specials		184		
518	192	lin. ft.	6" helical C.M.P. 707.06 non-perforated		192		
518	30	each	Scuppers, including supports	30			
601	1,450	Sq. Yd.	Crushed aggregate slope protection.				1,450
808	640	Units	Water-reducing, set-retarding admixture	640			
825	2695	Sq. Yd.	Concrete Surface Treatment	2597	98		
828	200	lin. ft.	Joint Sealer (end dam)	200			

DESIGN SPECIFICATIONS: This structure conforms to the requirement of Design Specifications for Highway Structures" of the State of Ohio, Department of Highways, dated 9-1-57, together with revisions thereof.

REFERENCE shall be made to Standard Drawings:
SD-1-65 dated 11-8-65, sh. 1, 2 & 3
BR-1-65, sht. 1, revised 11-24-65.
AS-1-54, revised 8-10-65
and to Supplemental Specifications 808 dated 2-7-66, 811 dated 3-29-65, 825 dated 4-22-65 and 828 dated 3-21-66.

DESIGN DATA:
Design Loading - C F 2000 (57)
Concrete Class "C" basic unit stress 1333 psi.
Concrete Class "E" basic unit stress 1,133 psi.
Structural Steel - ASTM A36 - basic unit stress 20,000 psi.

Reinforcing Steel - ASTM A15, A16, A160, Deformed, Intermediate or Hard Grade. Basic unit stress 20,000 psi.

RAILROAD AERIAL LINES will be relocated by the railroad. The Contractor shall use all precautions necessary to see that the lines are not disturbed during the construction stage and shall cooperate with the railroad in the relocation of these lines. The cost of the relocation shall be included in the railroad force account work.

ALIGNING RAILROAD TRACKS: After the Contractor has completed all excavation and backfill adjacent to the railroad tracks in compliance with Sec. 503.04 and 503.09 of the Construction and Material Specifications, subject to the Supervision of the Railroad Company, nothing in Sec. 503.04, 503.09 or 108.04 of the Specifications shall be construed to hold the Contractor liable for aligning and resurfacing the railroad tracks.

CONSTRUCTION CLEARANCE of 20'-0" vertically above the top of the railroad rails and 8'-0" horizontally from the center of tracks shall be maintained at all times.

MACHINE FINISH: The concrete bridge deck shall be finished by the use of a finishing machine.

UTILITY LINES: All expense involved in relocating the affected utility lines shall be borne by the owners. The Contractor and owners are requested to cooperate by arranging their work in such a manner that inconvenience to either will be held to a minimum.

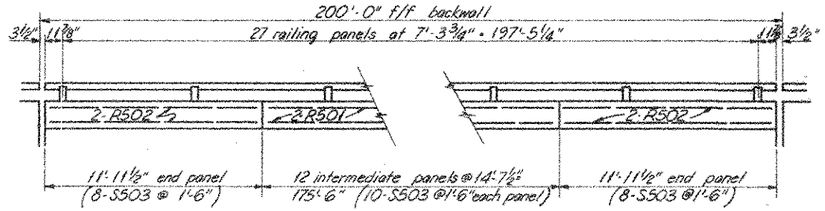
PROCEDURE: The embankment shall be placed and compacted up to the finished spill-thru slope and to the level of the sub-grade for a distance of 200 feet back of the abutments after which excavation shall be made for piers 1 & 3. After a 90 day waiting period excavation shall be made for the abutments. Obetz-Reese Road embankment shall be in place before the excavation is made for Piers 1 and 2

EXCAVATION QUANTITY includes the removal of fill material required for construction of the abutments and piers.

PILES shall be driven to a minimum bearing capacity of 47 tons per pile for the piers.

FOUNDATION BEARING PRESSURE: Abutment footings are designed for a maximum bearing pressure of 2.0 tons per sq. ft.

SHEETING AND BRACING: Before construction is started, eight sets of prints showing details of the sheeting and bracing to be used for excavation adjacent to the railroad tracks shall be submitted to the Director for approval by the Department of Highways and by the Railroad Company.



For additional details see BR-1-65, Sht. 1.

RAILING & PARAPET DETAILS

BURGESS & NIPLE LIMITED — CONSULTING ENGINEERS
COLUMBUS 12, OHIO

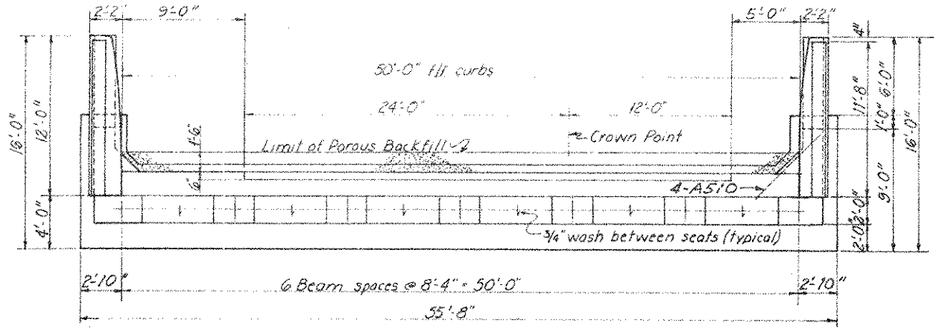
ESTIMATED QUANTITIES & GENERAL NOTES
RAILING DETAILS
BR. NO. FRA-270-1372 S. L & R
IR 270 OVER OBETZ REESE RD.
AND NORFOLK & WESTERN R.R.
FRANKLIN COUNTY STA. 647+70.25 649+72.75

DESIGNED	DRAWN	TRACED	CHECKED	REVISED DATE	REVISED
BWJ	D.W.		KEO	MAR 3-16-66	

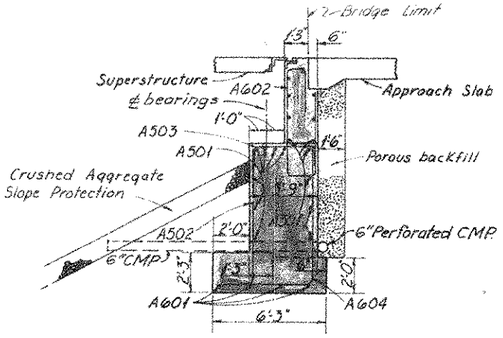
FED. ROAD DIV. NO.	STATE	FED. AID PROJ. NO.	TYPE FUNDS
2	OHIO		

225
332

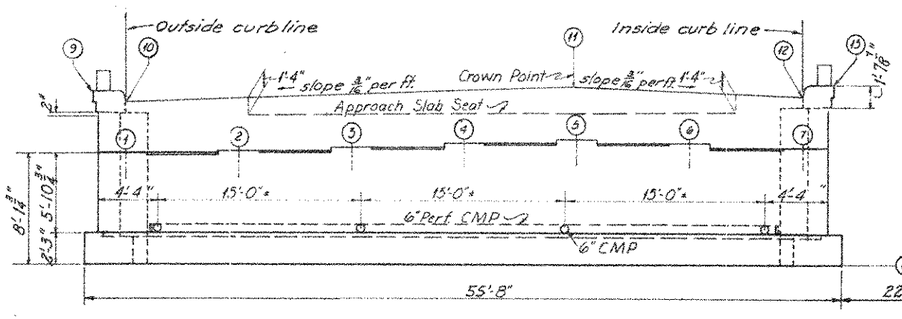
FRANKLIN COUNTY
FRA - 270 - 11.59 S



PLAN VIEW ~ TYPICAL

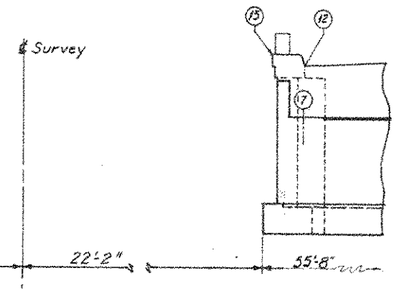


SECTION "A"

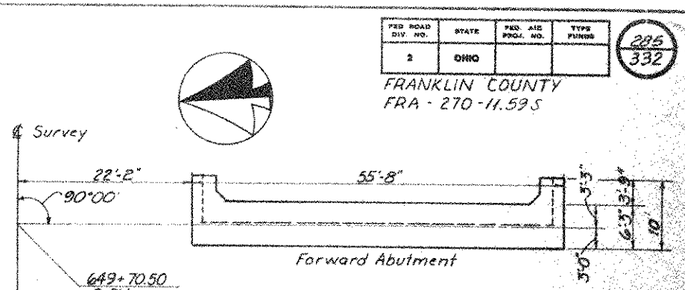


ELEVATION ~ TYPICAL

Rear Abutment - Right Bridge Shown. All others similar. For reinforcing steel see elevations drawn below.

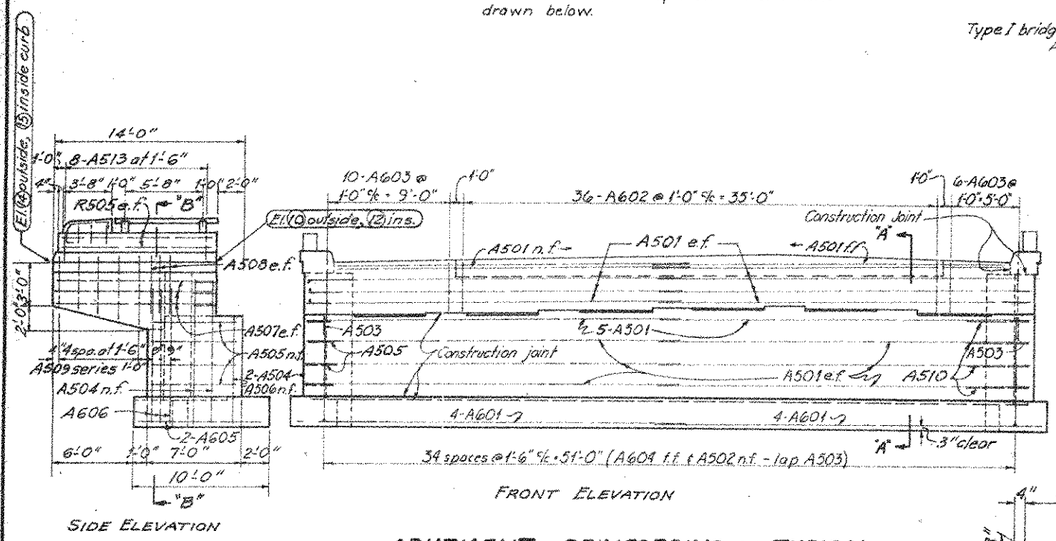


Rear Abutment - Left Bridge

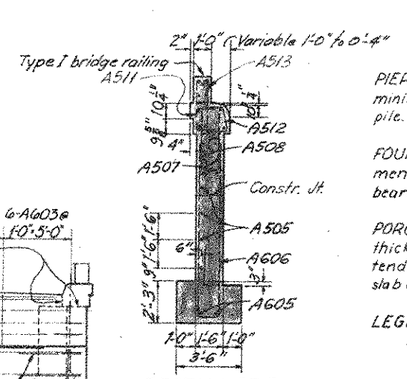


PILING LAYOUT AND FOOTING LOCATION

Right Bridge shown, Left Bridge opposite hand. All piles shall be 12 inch cast-in-place concrete piles. Batter all piles shown with an arrow 1:4 in the direction of the arrow. All other piles shall be vertical.



ABUTMENT REINFORCING ~ TYPICAL



SECTION "B"

PIER PILES: Pier piles shall be driven to a minimum bearing capacity of 47 tons per pile.

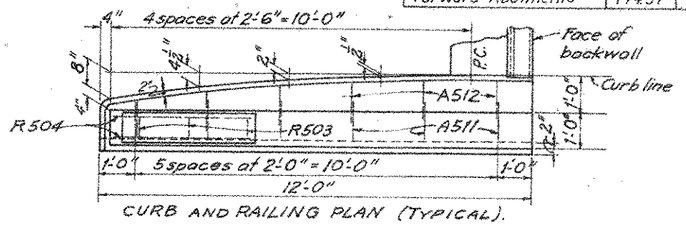
FOUNDATION BEARING PRESSURE: Abutment footings are designed for a maximum bearing pressure of 2.0 tons per sq. ft.

POROUS BACKFILL: Porous backfill, 1'-6" thick, full length of the abutment shall extend up to the underside of the approach slab or to the finished ground surface.

LEGEND: n.f. = near face
f.f. = far face
e.f. = each face

TABLE OF ELEVATIONS													
Elevation	1	2	3	4	5	6	7	8	9	10	11	12	13
Rear Abutments	777.05	777.18	777.31	777.44	777.56	777.43	777.30	768.90	781.78	780.93	781.44	781.18	782.03
Forward Abutments	774.57	774.70	774.83	774.96	775.08	774.95	774.82	766.42	779.27	778.42	778.93	778.67	779.52

Elevation	14	15
Rear	781.05	781.30
Forward	778.25	778.50



CURB AND RAILING PLAN (TYPICAL).

BURGESS & NIPLE LIMITED — CONSULTING ENGINEERS
COLUMBUS 12, OHIO

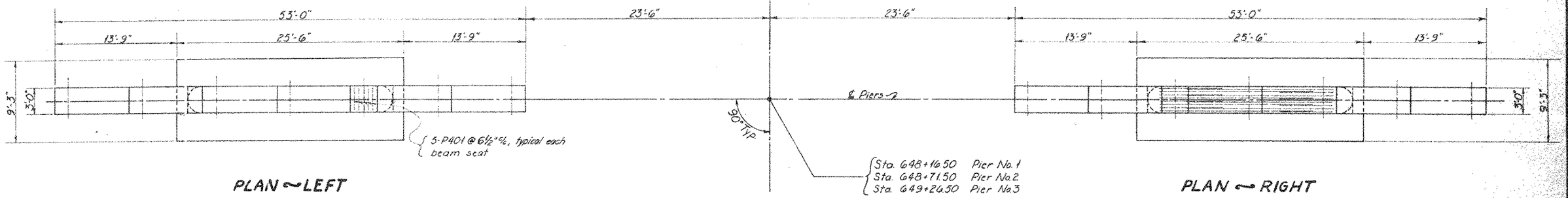
ABUTMENT DETAILS AND PILING LAYOUT
BRIDGE NO. FRA-270-13.72S Lt. & Rt.
IR 270 OVER OBETZ-REESE ROAD AND NORFOLK & WESTERN R.R.
FRANKLIN COUNTY STA 647+70.25 STA 649+72.75

DESIGNED	DRAWN	TRACED	CHECKED	REVISED DATE	REVISED
[illegible]	[illegible]		KED	WER 3-16-66	

FED. ROAD DIV. NO.	STATE	FED. AID PROJ. NO.	TYPE FUNDS
2	OHIO		

286
332

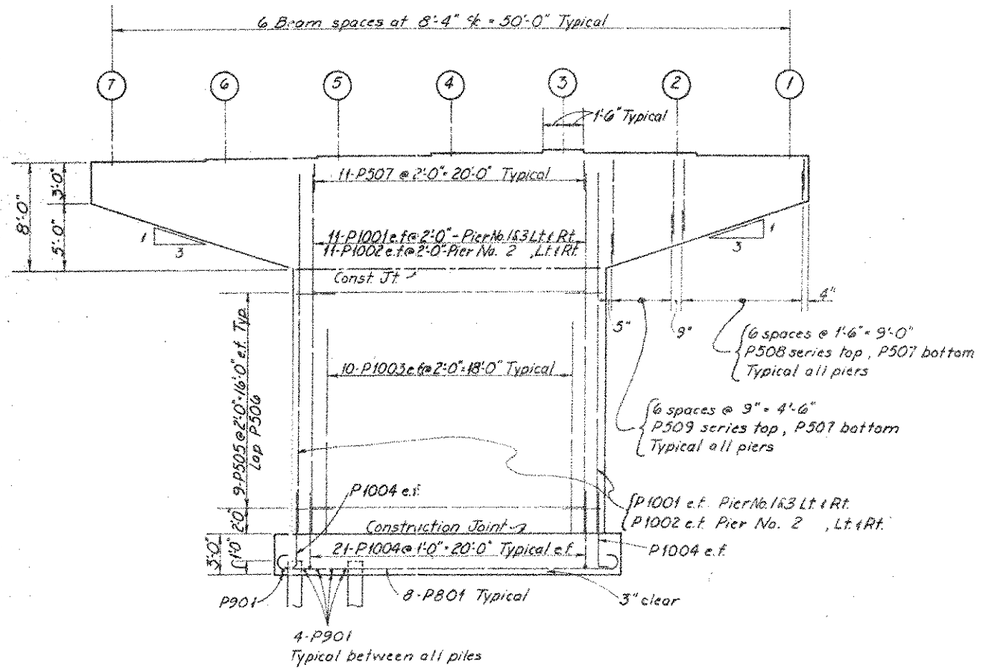
FRANKLIN COUNTY
FRA - 270 - 11.59 S.



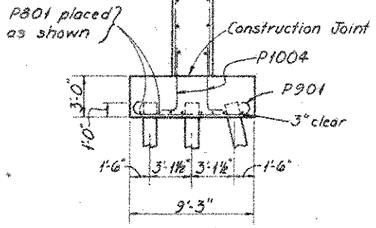
PLAN ~ LEFT

PLAN ~ RIGHT

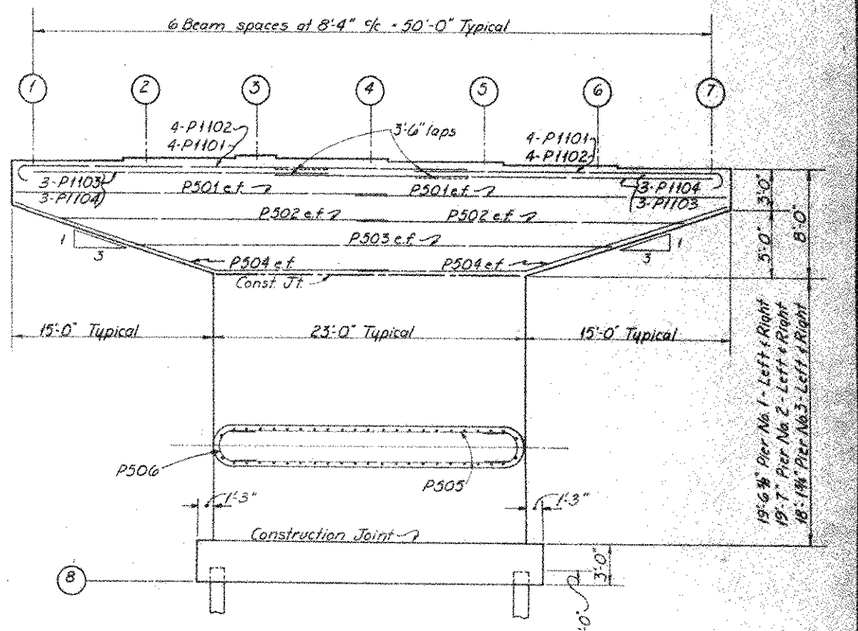
BRIDGE SEAT REINFORCING : Special care shall be taken in placing reinforcing steel in the vicinity of the bridge seat so as to avoid interference with the drilling of anchor bar holes.



ELEVATION ~ LEFT



END VIEW



ELEVATION ~ RIGHT

NOTE : See Sheet No. 285 for piling layout.

TABLE OF ELEVATIONS

Elevation	1	2	3	4	5	6	7	8
Pier No. 1 - Left & Right	776.18	776.91	777.04	776.92	776.79	776.66	776.53	746.00
Pier No. 2 - Left & Right	775.83	775.96	776.09	775.97	775.84	775.71	775.58	745.00
Pier No. 3 - Left & Right	775.40	775.53	775.66	775.54	775.41	775.28	775.15	746.00

BURGESS & NIPLE LIMITED — CONSULTING ENGINEERS
COLUMBUS 12, OHIO

PIER DETAILS
BRIDGE NO. FRA-270-1372S L & R.
IR 270 OVER OBETZ-REESE ROAD AND NORFOLK & WESTERN R.R.

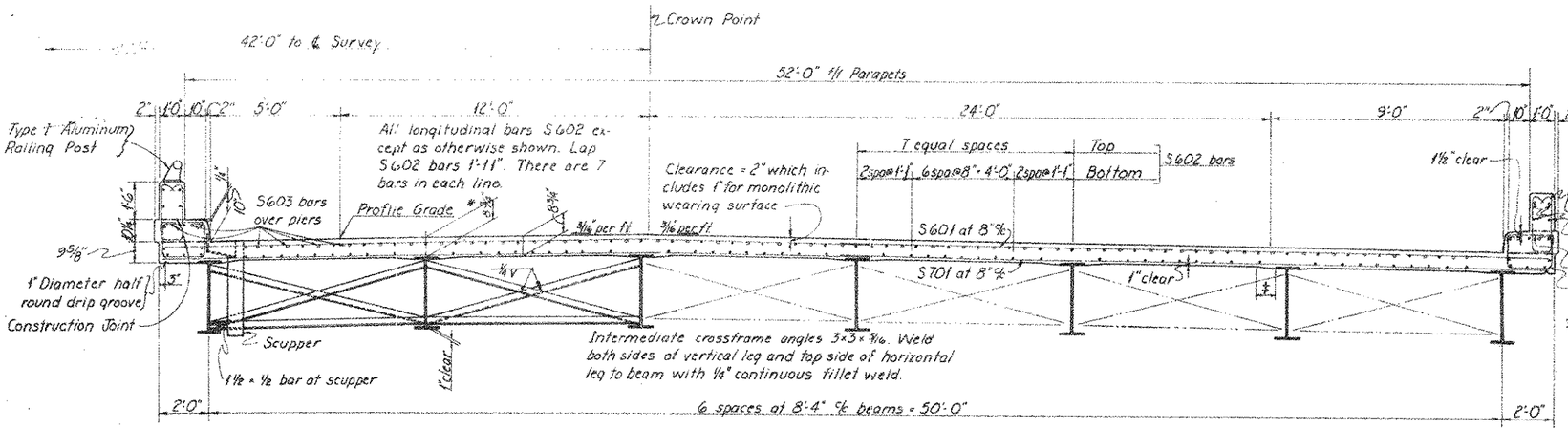
FRANKLIN COUNTY STA. 647+70.25 649+72.75

DESIGNED	DRAWN	TRACED	CHECKED	REVISED DATE	REMARKS
DWJ	DWJ		KED	OVER 1-16-64	

FED. ROAD DIV. NO.	STATE	FED. AID PROJ. NO.	TYPE FUNDS
2	OHIO		

287
332

FRANKLIN COUNTY
FRA - 270 - 11.59 S.



‡ A typical haunch width of 9" shall be used for computing quantity of concrete. However, the haunch width may vary between 6" and 12" provided that the slope shall be not more than 1:4 for a haunch less than 9" in width.

- HALF TRANSVERSE SECTION -

(Right structure shown, Left structure opposite hand.)

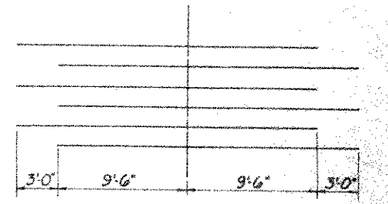


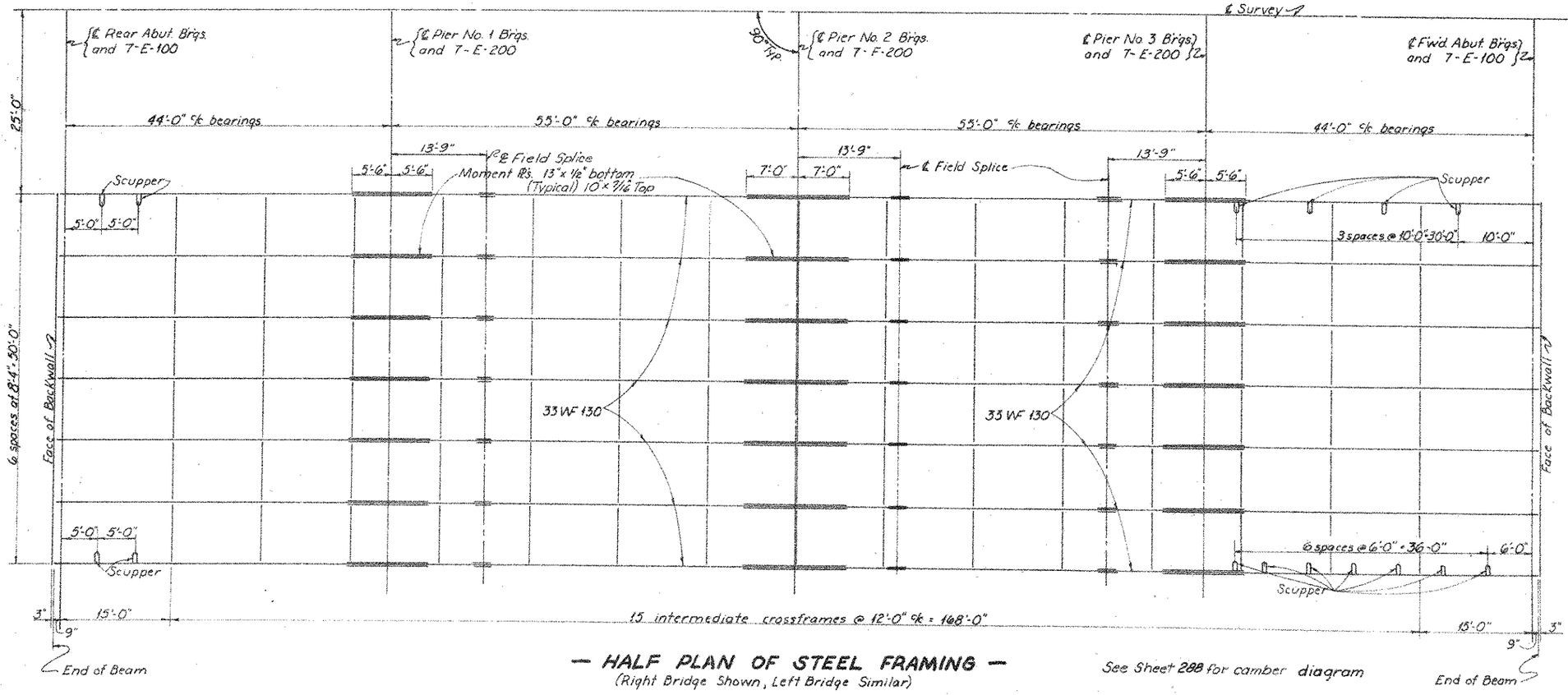
DIAGRAM SHOWING STAGGER OF S603 BARS OVER PIERS

RAILING shall be aluminum with concrete parapet, Type "1", Standard Drawing BR-1-65, Sh. 1.

CONCRETE shall be class "C" f_c = 1333 psi.

MACHINE FINISH: The concrete bridge deck shall be finished by the use of a finishing machine.

SLAB THICKNESS shown includes 1" for monolithic wearing surface.



- HALF PLAN OF STEEL FRAMING -

(Right Bridge Shown, Left Bridge Similar)

See Sheet 288 for camber diagram

WELDING
Any welds shown as field welds may, at the option of the Contractor, be made in the shop.

FOR DETAILS OF :	SEE STD. DWG.
Bolted Beam Splice	SD-1-65 sh 3
End Dam & End Crossframes	SD-1-65, sh. 1
Scuppers, Type 1	SD-1-65, sh.2
Curb Plates	SD-1-65, sh.2
Bearings	FSB-1-62
Railing & Parapet	BR-1-65, Sh. 1
Moment Plates	SD-1-65, sh.2

* This is a nomial dimension. The quantity of deck concrete to be paid for shall be based on this dimension even though deviation from it may be necessary because the top flange of the beam may not have the exact camber or conformation required to place it parallel to the finished grade.

BURGESS & NIPLE LIMITED — CONSULTING ENGINEERS
COLUMBUS 12, OHIO

SUPERSTRUCTURE DETAILS
BRIDGE NO. FRA-270-1372 S Lt & Rt
IR 270 OVER OBETZ-REESE ROAD
AND NORFOLK & WESTERN R.R.
FRANKLIN COUNTY STA. 647+70.25 649+72.75

DESIGNED	DRAWN	TRACED	CHECKED	REVISED DATE	REVISED
			KEO	8-16-66	

FED. ROAD DIV. NO.	STATE	FED. AID PROJ. NO.	TYPE FUNDS
2	OHIO		

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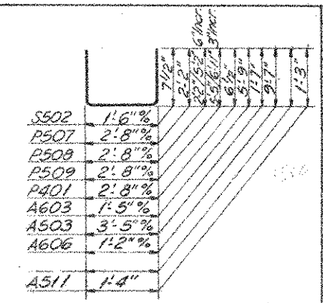
FRANKLIN COUNTY
FRA-270-11.59S.

BR.No.FRA-270-13.75S. L & R REINFORCING STEEL LIST (both bridges)

Mark	No	Length	Weight	Shape	Incr
Superstructure					
S701	1196	28'-0"	68,449	S	
S601	1196	27'-11"	50,149	S	
S602	1554	30'-3"	70,607	S	
S603	264	22'-0"	8,724	S	
S501	532	4'-11"	2,728	B	
S502	532	2'-6"	1,387	B	
S503	544	5'-7"	3,168	B	
Piers					
P1101	48	34'-9"	8,862	B	
P1102	48	24'-7"	6,269	B	
P1103	36	21'-6"	4,112	S	
P1104	36	32'-0"	6,121	S	
P1001	104	27'-0"	12,083	S	
P1002	52	25'-8"	5743	S	
P1003	120	15'-9"	8,133	S	
P1004	276	7'-0"	8,313	B	
P901	132	11'-5"	5,124	B	
P801	48	27'-4"	3,503	B	
P501	24	27'-2"	680	S	
P502	24	24'-3"	607	S	
P503	12	35'-0"	438	S	
P504	24	27'-10"	697	B	
P505	108	20'-0"	2,253	S	
P506	108	7'-0"	789	B	
P507	234	6'-9"	1647	B	
P508	~~156~~ 78	~~6'-9"~~ 12'-9"	854	B	12"
P509	~~156~~ 78	~~13'-3"~~ 16'-3"	1292	B	6"
P401	210	3'-6"	491	B	

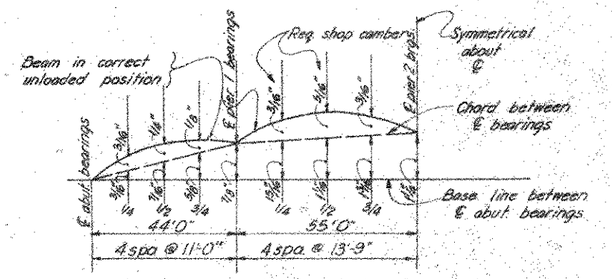


*See Std. Drawing BR-1-65 for details

Mark	No	Length	Weight	Shape	Incr
Abutments					
A601	32	28'-8"	1378	S	
A602	144	14'-3"	3,082	B	
A603	64	12'-7"	1,210	B	
A604	140	12'-11"	2,716	B	
A605	16	9'-6"	228	S	
A606	24	20'-0"	721	B	
A501	152	27'-6"	4,360	S	
A502	140	8'-2"	1193	B	
A503	140	6'-4"	925	B	
A504	16	11'-0"	185	B	
A505	32	8'-0"	267	B	
A506	8	7'-8"	64	S	
A507	48	11'-8"	584	S	
A508	48	4'-6"	225	S	
A509	~~8.5~~ 5	~~5'-3"~~ 3'-6"	181	S	5"
A510	32	7'-0"	234	S	
A511	48	3'-7"	179	B	
A512	48	3'-7"	179	B	
A513	64	5'-7"	373	B	
Railing (To be installed with railing by others)					
R501	192	14'-3"		S	
R502	32	11'-7"		S	
R503	24	4'-2"		B*	
R504	16	5'-4"		B*	
R505	32	11'-4"		S	
Replacement Bars					
RE1101	2	7'-6"		S	
RE1001	2	7'-2"		S	
RE901	1	6'-10"		S	
RE801	1	6'-6"		S	
RE701	4	6'-2"		S	
RE601	7	5'-11"		S	
RE501	2	5'-7"		S	
RE401	1	5'-3"		S	

DEFLECTION & CAMBER TABLE (in inches)

Description	SPAN 1			SPAN 2		
	1/4	1/2	3/4	1/4	1/2	3/4
Deflection due to weight of steel	.022	.026	.012	.021	.034	.019
Deflection due to remaining dead load	.133	.155	.071	.124	.199	.113
Adjustment required for vertical curve	.047	.062	.047	.073	.098	.073
Sum	.202	.243	.130	.218	.331	.205
Required shop camber	3/16"	1/4"	1/8"	3/16"	5/16"	3/16"



LAYOUT DIAGRAM

BURGESS & NIPLE LIMITED — CONSULTING ENGINEERS
COLUMBUS 12, OHIO

REINFORCING STEEL LIST
BR. NO. FRA-270-13.72 S. L & R
IR 270 OVER OBETZ REESE RD. AND NORFOLK & WESTERN R.R.

FRANKLIN COUNTY STA. 647+70.25 to STA. 649+72.75

DESIGNED	DRAWN	TRACED	CHECKED	REVISED DATE	REVISED
AWJ	D.W.		KED	WER 5-16-66	

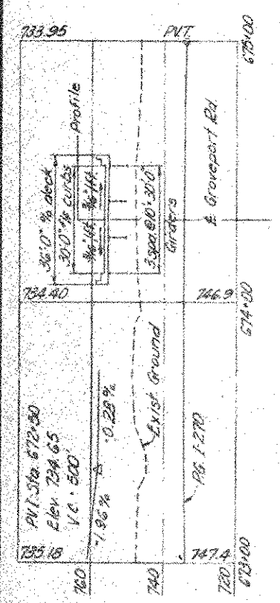
FED. RTE. DESIGNATION	STATE	PROJECT	
2	OHIO		

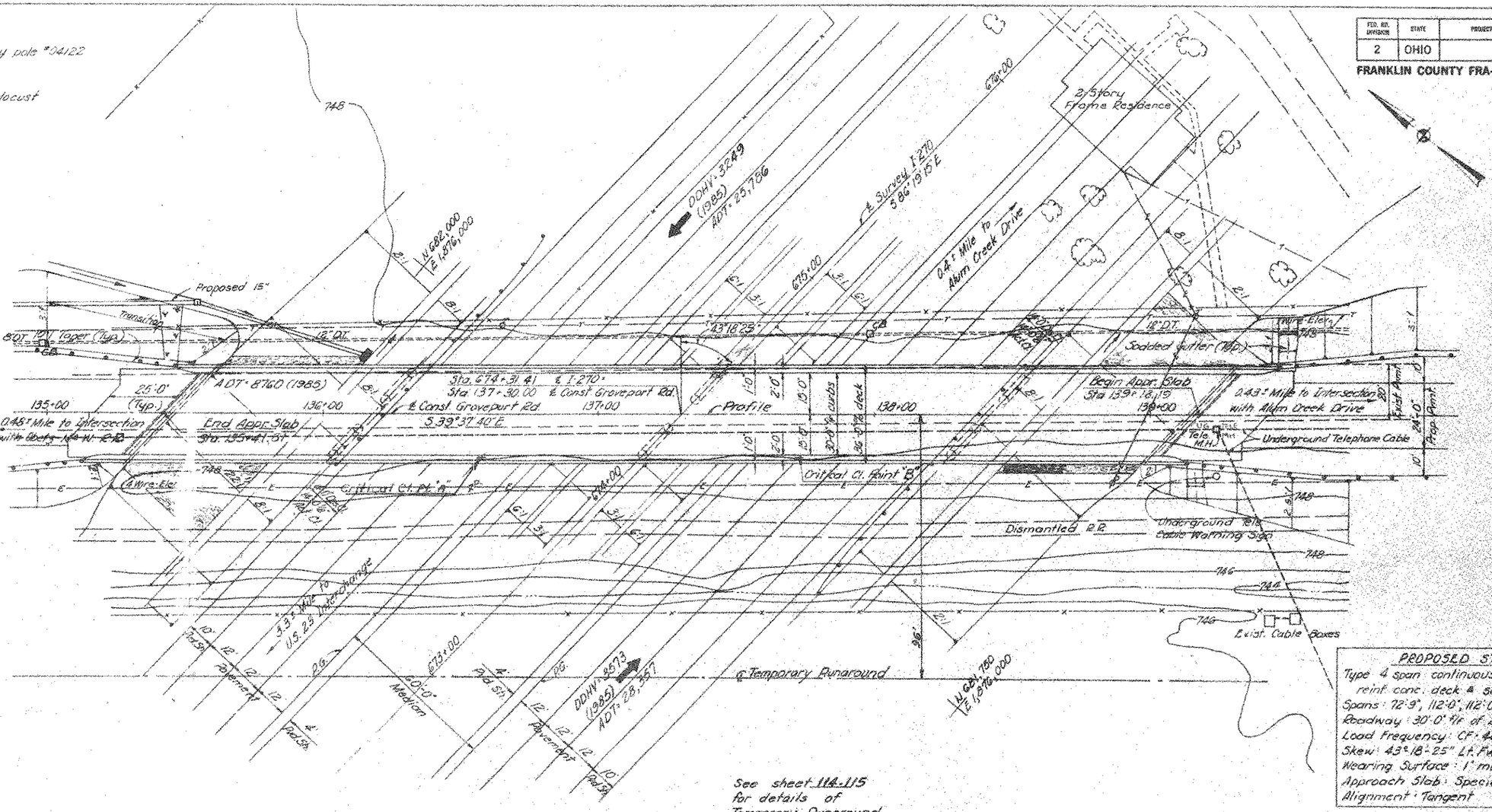
FRANKLIN COUNTY FRA-270-11.55 S

Bench Marks

℄ I-270 Sta. 676+40 300' Rt.
RR spike S. side utility pole #04122
Elev. 747.186

℄ I-270 Sta. 678+15 430' Rt.
RR spike N. side 20" locust
Elev. 745.844

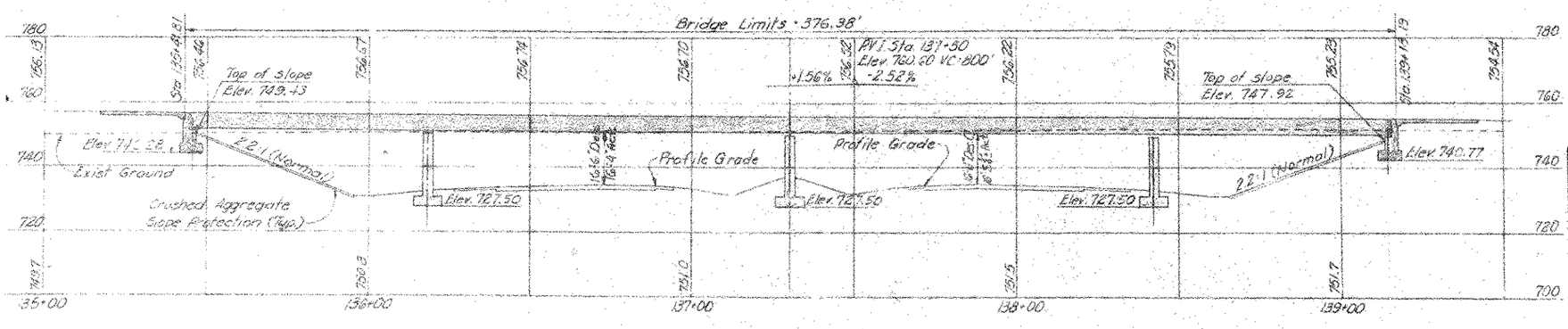




PROPOSED STRUCTURE

Type 4 span continuous steel girders with reinf. conc. deck & substructure
Spans: 72'9", 112'0", 112'0", 72'9" ℄ brgs.
Roadway: 30'0" w/ 2'0" safety curbs
Load Frequency: CF: 400 (67)
Skew: 43°18'25" Lt. Fwd.
Wearing Surface: 1" mono. concrete
Approach Slab: Special (25' long)
Alignment: Tangent

See sheet 114-115 for details of Temporary Runaround



DE LEUW, CATHER & BELL
CONSULTING ENGINEERS
NEW YORK, N.Y. • COLUMBUS, OHIO • BUFFALO, N.Y.

SITE PLAN

BRIDGE No. FRA-270-14335
UNDER GROVEPORT ROAD

FRANKLIN COUNTY — COLUMBUS OUTERBELT
SCALE 1" = 20ft. — STA. 674 + 31.41

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
MM 5-18-66	V.N.	V.N.	DAF	MM 5-18-66		

FED. ROAD DIV. NO.	STATE	FED. AID PROJ. NO.	TYPE FUNDS
2	OHIO		

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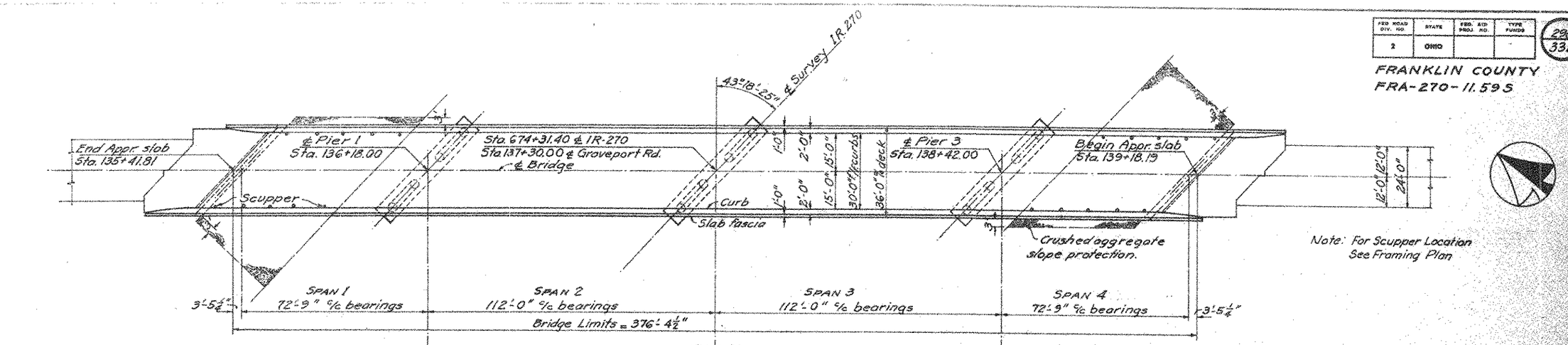
332

FRANKLIN COUNTY
FRA-270-11.59 S



Note: For Scupper Location See Framing Plan

Note: See Sheet 263 for approach slab details

ESTIMATED QUANTITIES BR N° FRA-270-1423 S.

ITEM	TOTAL	UNIT	DESCRIPTION	SUPERSTR.	ABUTS.	PIERS	GENERAL
503	680	cu.yd.	Unclassified excavation		350	330	
509	159,715	lbs.	Reinforcing steel	119,454	12271	27,990	
511	454	cu.yds.	Class "C" concrete, superstructure	454			
511	83	cu.yds.	Class "C" concrete, piers above footings.			83	
511	185	cu.yds.	Class "E" concrete, abutment walls.		185		
511	198	cu.yds.	Class "E" concrete, footings.		64	134	
513	413,800	lbs.	Structural steel	413,800			
514	413,800	lbs.	Field painting of structural steel.	413,800			
517	825.40	lin.ft.	Bridge Railing, Type 1	745.86	79.54		
518	50	cu.yds.	Porous backfill		50		
518	86	lin.ft.	6" Helical C.M.P. 707.06, non-perforated		86		
518	75	lin.ft.	6" Perforated helical C.M.P. 707.06 including specials.		75		
518	20	each	Scuppers, including supports.	20			
601	670	sq.yds.	Crushed aggregate slope protection				670
808	454	Units	Water-reducing, set-retarding admixture	454			
825	1737	Sq. Yds.	Concrete Surface Treatment	1667	70		
828	83	lin ft	Joint Sealer (end dam)	83			

DESIGN SPECIFICATIONS: This structure conforms to the requirements of "Design Specifications for Highway Structures" of the State of Ohio, Department of Highways, dated 9-1-57, together with current revisions thereof.

REFERENCE shall be made to Standard Drawings:
BR-1-65, Sh. 1, revised 11-24-65
SD-1-65, Sh. 1, 2 & 3

FSB-1-62, revised 1-15-63;
RB-1-55, revised 2-2-59;

and to Supplemental Specifications
808 dated 2-7-66 and
811 dated 3-29-65.
825 dated 4-22-65
828 dated 3-21-66.

DESIGN DATA:
Design Loading - CF 400 (57)
Concrete Class "C" - basic unit stress 1333 psi.
Concrete Class "E" - basic unit stress 1133 psi.
Structural Steel - ASTM A36 basic unit stress 20,000 psi.

Reinforcing Steel - ASTM A15, A16, A160, Deformed, Intermediate or Hard Grade. Basic unit stress 20,000 psi except spiral reinforcement may be plain Structural Grade with basic unit stress of 18,000 psi.

UTILITY LINES: All expense involved in relocating the effected utility lines shall be borne by the owners. The Contractor and owners are requested to cooperate by arranging their work in such a manner that inconvenience to either will be held to a minimum.

BURGESS & NIPLE LIMITED — CONSULTING ENGINEERS
COLUMBUS 12, OHIO

GENERAL PLAN & ELEVATION
BRIDGE No. FRA-270-1423 S
IR-270 UNDER
GROVEPORT ROAD
FRANKLIN COUNTY STA. 674+31.40

DESIGNED	DRAWN	TRACED	CHECKED	SUPERVISED BY	DATE
KED	KED	KED	BWJ	WBP	9-16-66

FED. ROAD DIV. NO.	STATE	FED. AID PROJ. NO.	TYPE FUNDS
2	OHIO		

291
332

FRANKLIN COUNTY
FRA-270-11.59S.

SECTION B

SECTION C

PLAN

ELEVATION

SECTION A

LEGEND
e.f. - each face
n.f. - near face
f.f. - far face

BURGESS & NIPLE LIMITED — CONSULTING ENGINEERS
COLUMBUS 12, OHIO

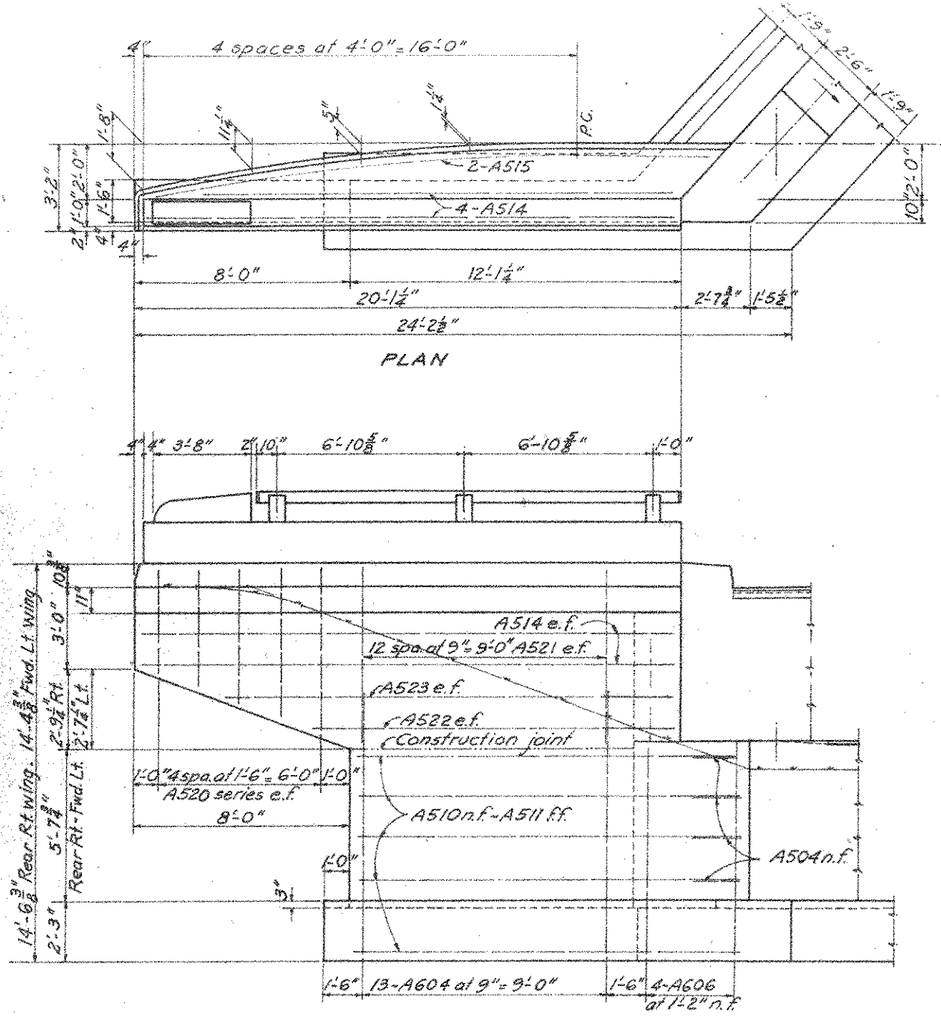
ABUTMENT PLAN & ELEV.
BRIDGE N° FRA-270-14.29S
I R-270 UNDER
GROVEPORT ROAD
FRANKLIN COUNTY STA 674+31.40

DESIGNED	DRAWN	TRACED	CHECKED	REVISION DATE	REVISION
KED	KED		DWJ	Mar 3-16-66	

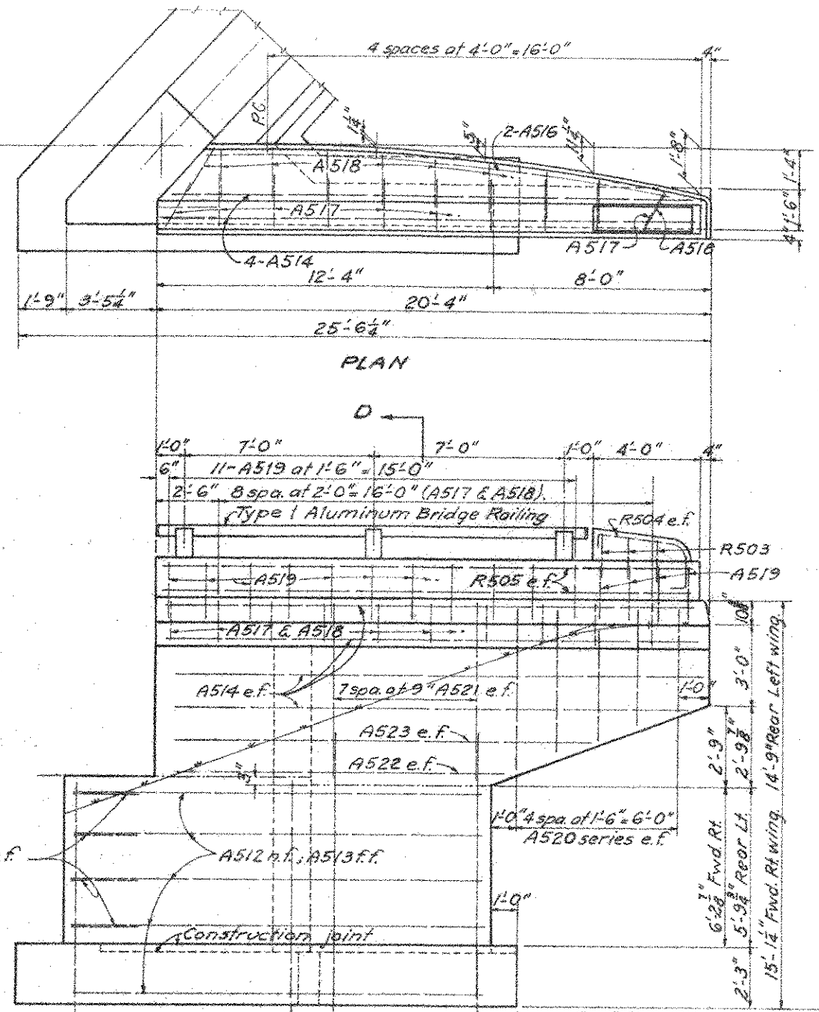
FED. ROAD DIV. NO.	STATE	FED. AID PROJ. NO.	TYPE FUNDS
2	OHIO		

292
332

FRANKLIN COUNTY
FRA-270-11.59 S.

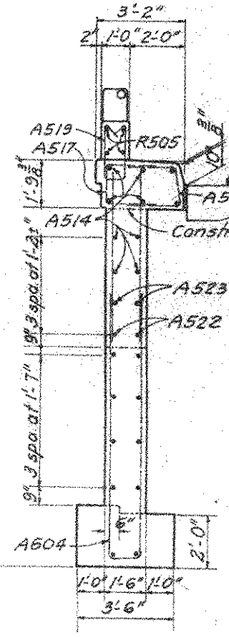


ELEVATION OF REAR RIGHT AND FORWARD LEFT WINGWALLS



See "Abut. Plan and Elev." for Abutment Elevations.

ELEVATION OF REAR LEFT AND FORWARD RIGHT WINGWALLS
D



SECTION D

BRIDGE SEAT REINFORCING: Special care shall be taken in placing reinforcing steel in the vicinity of the bridge seat so as to avoid interference with the drilling of anchor bar holes.

FOUNDATION BEARING PRESSURE: Abutment footings are designed for a maximum bearing pressure of 1.8 tons per sq. ft.

LEGEND:-
e.f. - each face
n.f. - near face
f.f. - far face

BURGESS & NIPLE LIMITED — CONSULTING ENGINEERS
COLUMBUS 15, OHIO

4/8

ABUTMENT WINGWALLS

BRIDGE NO. FRA-270-1423 S
I.R-270 UNDER
GROVEPORT ROAD
FRANKLIN COUNTY STA. 674+31.40

DESIGNED	DRAWN	TRACED	CHECKED	QUANTITIES DATE	REVISED
KED	KED	KED	AWJ	add R 3-16-66	

FED. ROAD DIV. NO.	STATE	FED. AID PROJ. NO.	TYPE FUNDS
2	OHIO		

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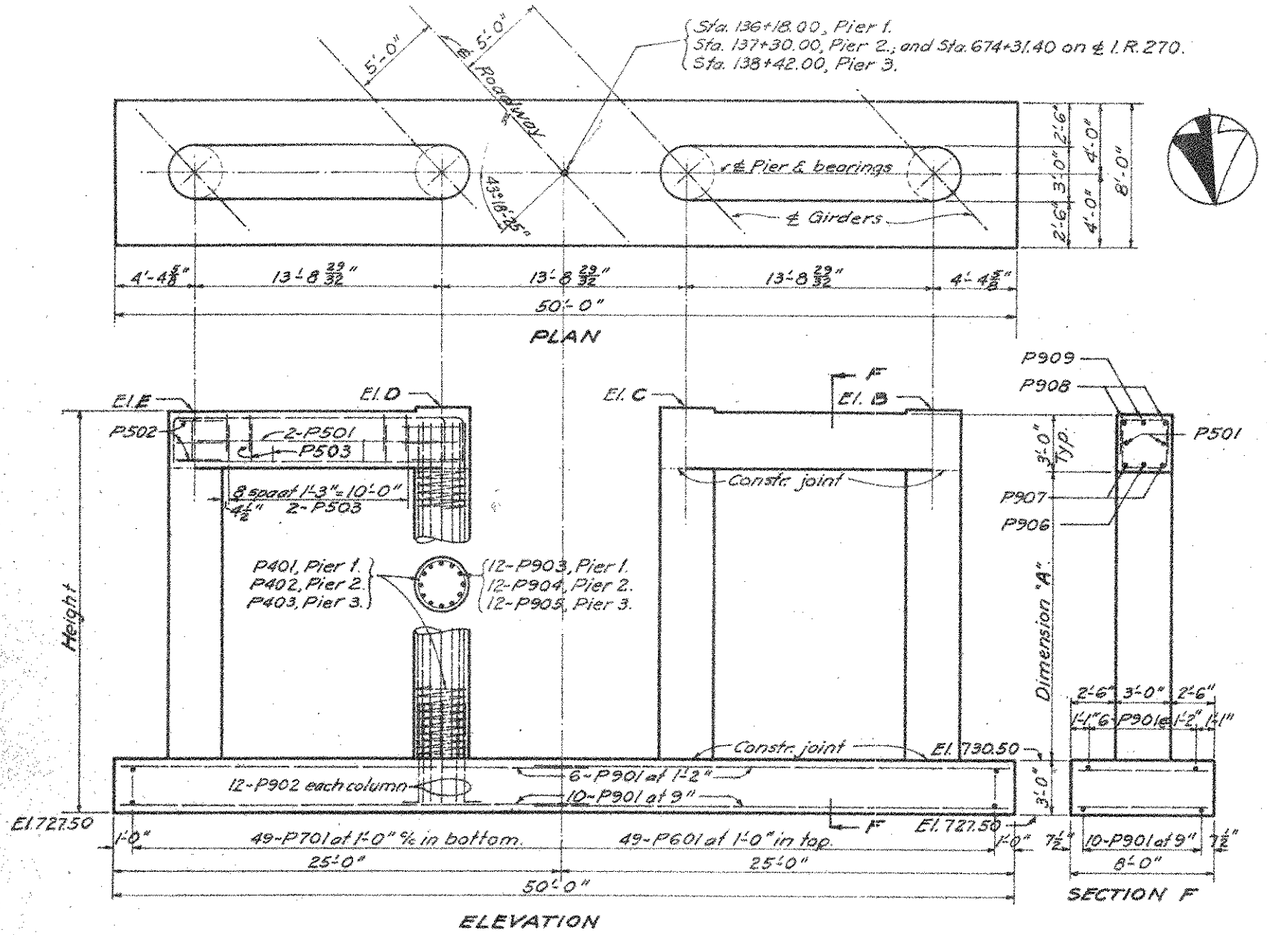
FRANKLIN COUNTY
FRA-270-11.59S



PIER ELEVATIONS						
PIER NO.	DIMEN. A	El. B	El. C	El. D	El. E	Height
1	15'-11 7/16"	749.44	749.62	749.64	749.50	22'-0"
2	16'-6 3/4"	750.17	750.29	750.26	750.06	22'-6 3/4"
3	14'-11 7/16"	748.76	748.83	748.74	748.49	20'-11 7/16"

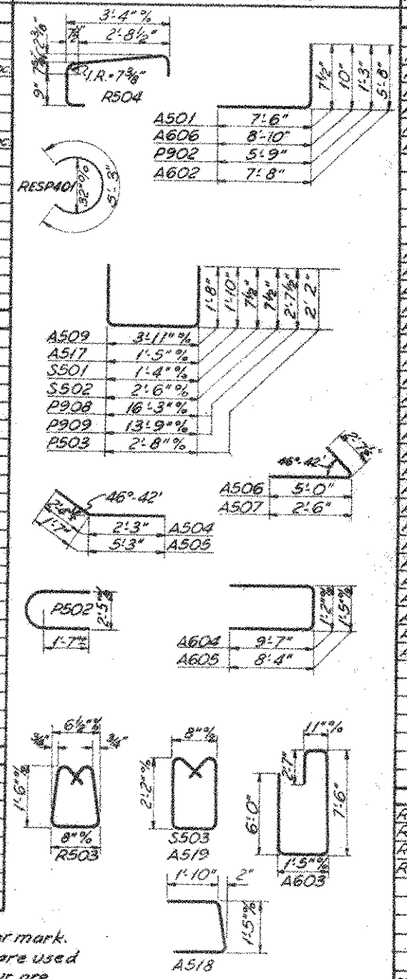
BRIDGE SEAT REINFORCING: Special care shall be taken in the placing of reinforcing steel in the vicinity of the bridge seat so as to avoid interference with the drilling of anchor bar holes.

FOUNDATION BEARING PRESSURE: Pier footings are designed for a maximum bearing pressure of 2.7 tons per sq. ft.

REINFORCING STEEL LIST BR N° FRA-270-1423S

MARK	No.	LENGTH	WEIGHT	SHAPE
SUPERSTRUCTURE				
S701	464	35'-3"	33,827	S
S702	2 Spans 41	35'-2" - 4'-4"	3,310	S 5/8" inc.
S703	8	4'-3"	69	S
S601	464	35'-8"	24,857	S
S602	2 Spans 41	35'-2" - 4'-4"	2,432	S 5/8" inc.
S603	8	4'-3"	51	S
S604	852	32'-9"	41,910	S
S605	234	16'-3"	5,711	S
S501	1000	2'-4"	2,434	B
S502	500	3'-6"	1,825	B
S503	520	5'-7"	3,028	B
PIERS				
P901	96	25'-9"	8,405	S
P902	144	6'-9"	3,305	B
P903	48	18'-6"	3,019	S
P904	48	19'-3"	3,142	S
P905	48	17'-6"	2,856	S
P906	6	16'-0"	326	S
P907	12	13'-9"	561	S
P908	12	18'-6"	755	B
P909	6	21'-0"	429	B
P701	147	7'-8"	2,304	S
P601	147	7'-8"	1,693	S
P501	12	13'-9"	172	S
P502	36	7'-0"	263	B
P503	108	6'-9"	760	B
RAILING				
R501	176	15'-4"	Included with item 517 for payment	S
R502	16	13'-0"		S
R503	12	4'-2"		B
R504	8	5'-4"		B
R505	16	19'-6"		S

BENDING DIAGRAMS



ABUTMENTS				
A601	16	26'-9"	643	S
A602	56	13'-2"	1107	B
A603	84	17'-9"	2239	B
A604	42	20'-0"	1262	B
A605	6	17'-9"	160	B
A606	22	9'-5"	311	B
A501	64	8'-0"	534	B
A502	42	23'-9"	1040	S
A503	42	22'-6"	986	S
A504	8	4'-6"	38	B
A505	24	6'-9"	169	B
A506	8	7'-6"	63	B
A507	8	5'-0"	42	B
A508	16	5'-0"	83	S
A509	64	7'-0"	467	B
A510	10	14'-6"	151	S
A511	10	12'-0"	125	S
A512	10	15'-3"	159	S
A513	10	10'-0"	104	S
A514	32	19'-9"	659	S
A515	4	21'-0"	88	S
A516	4	18'-6"	77	S
A517	40	4'-10"	202	B
A518	40	4'-8"	195	B
A519	60	5'-7"	349	B
A520	Bars 5	4'-0"	209	S 5/8" inc.
A521	84	6'-0"	526	S
A522	8	13'-6"	113	S
A523	8	17'-0"	142	S

REPLACEMENT BARS				
RE901	2	6'-10"	-	S
RE701	2	6'-2"	-	S
RE601	5	5'-11"	-	S
RE501	1	5'-7"	-	S
RESA01	1	5'-3"	-	B

BAR SIZE is indicated in the bar mark. The first digit where three digits are used and the first two digits where four are used, indicate the bar size number. For example, P502 is a No. 5 size bar and a P1102 would be a No. 11 size.

SPIRAL REINFORCING BARS:- The "Length" shown in the steel list for the spiral bars is the length of the spiral along the axis of the spiral. The "No. of Turns" shown is the length divided by the pitch, plus 3 turns (total number of closed coils). Spiral reinforcing bars shall not have deformations but shall in other respects conform to Item 509. 1½ Closed coils shall be provided at the ends of each spiral unit. Four steel channel, tee or angle spacers, weighing approximately 0.68 lb. per lin. ft. of spacer, shall be provided for each spiral unit. They shall be equally spaced along the periphery of the coil. The number of lbs. of these spacers, based on 0.68 lb. per lin. ft., will be paid for as reinforcing steel and is included in the tabulated quantity of spiral bars.

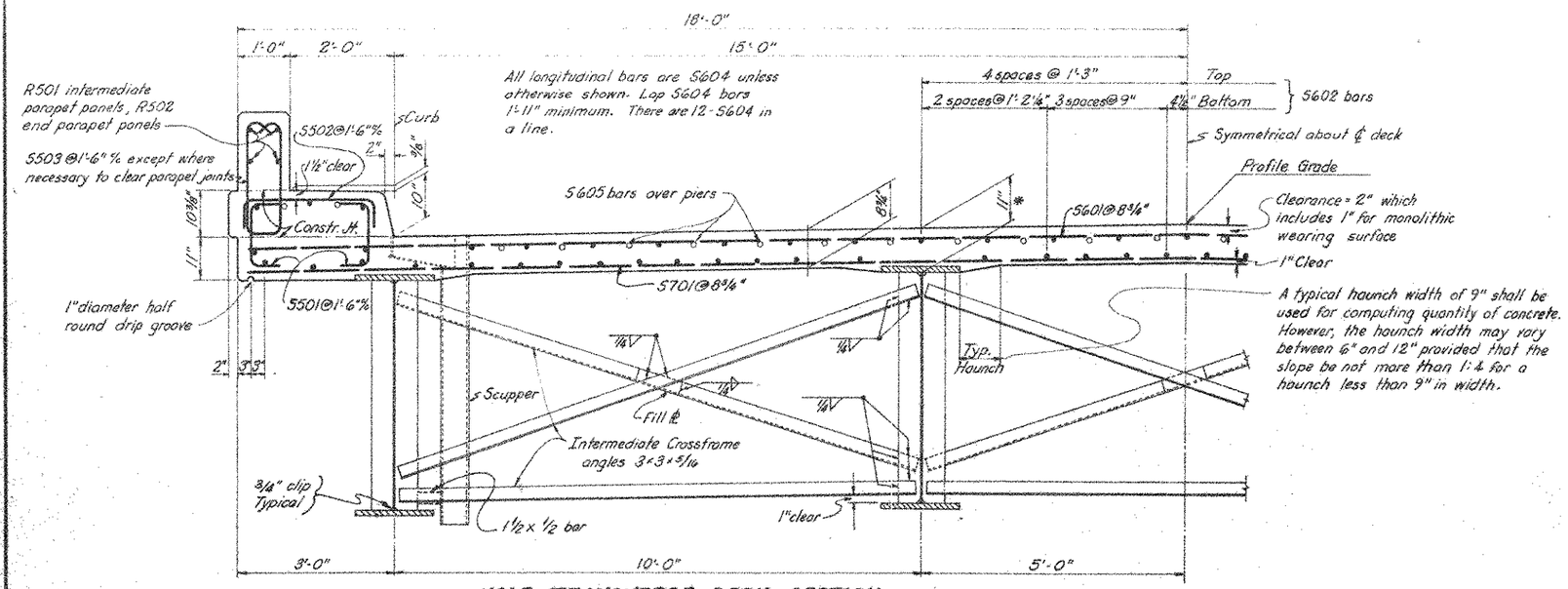
SPIRALS								
MARK	No.	SIZE	CORE DIA.	LENGTH	PITCH	TURNS	SPACER	WEIGHT
SP401	4	½" ϕ	32"	15'-9"	4½"	45	4	1164
SP402	4	½" ϕ	32"	16'-6"	4½"	47	4	1216
SP403	4	½" ϕ	32"	15'-0"	4½"	43	4	1112

BURGESS & NIPLE LIMITED — CONSULTING ENGINEERS
COLUMBUS 12, OHIO 5/8

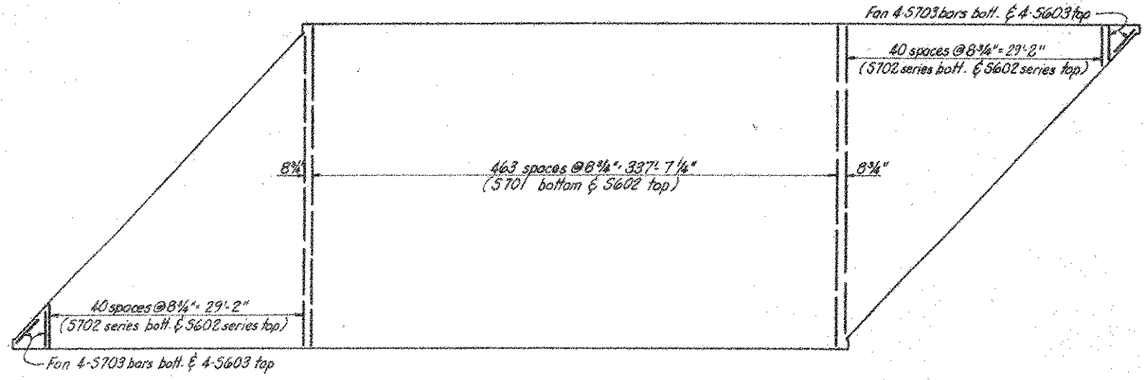
PIER DETAILS AND REINFORCING STEEL LIST

BRIDGE No. FRA-270-1423S
IR-270 UNDER
GROVEPORT ROAD
FRANKLIN COUNTY STA. 674+31.40

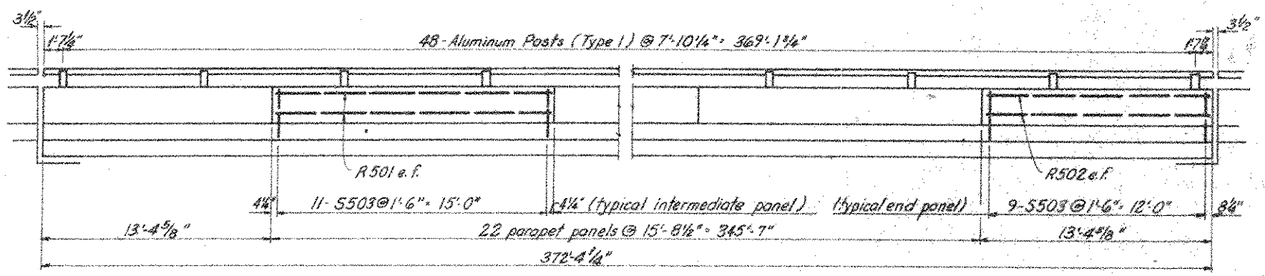
DESIGNED	DRAWN	TRACED	CHECKED	REVISIONS DATE	REVISIONS
KED	KED	KED	BWJ	Jan 8 1964	



HALF TRANSVERSE DECK SECTION



PLAN OF MAIN DECK SLAB REINFORCING



RAILING ℄ PARAPET ELEVATION

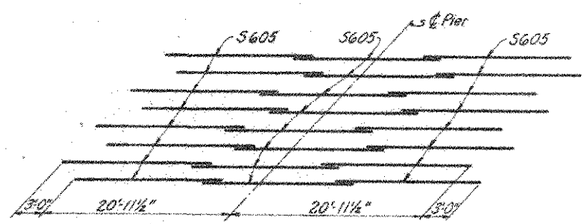


DIAGRAM SHOWING STAGGER OF S605 BARS OVER PIERS

FED. ROAD DIV. NO.	STATE	FED. AID PROJ. NO.	TYPE FUNDS
2	OHIO		

294
332

FRANKLIN COUNTY
FRA-270-11.59 S.

WELDING: Any welds shown as field welds may, at the option of Contractor, be made in shop.

RAILING shall be aluminum with concrete parapet, Type 1, Standard Drawing BR-1-65. Sht 1.

CONCRETE shall be Class "C" f_c = 1333 psi.

MACHINE FINISH: The concrete bridge deck shall be finished by the use of a finishing machine.

SLAB THICKNESS shown includes 1" for monolithic wearing surface.

ADDITIONAL NOTES: For additional notes see sheet 290

* This is a nominal dimension. The quantity of deck concrete to be paid for shall be based on this dimension even though deviation from it may be necessary because the top flange of the beam may not have the exact camber or conformation required to place it parallel to the finished grade.

FOR DETAILS OF	SEE STD. DWG.
End Dam & End Crossframes	SD-1-65, sht 1
Scuppers (Type 1)	SD-1-65, sht 2
Curb Plates	SD-1-65, sht 2
Bearings	FSB-1-62
Rockers	RB-1-55
Railing & Parapet	BR-1-65, sht 1

BURGESS & NIPLE LIMITED — CONSULTING ENGINEERS
COLUMBUS 12, OHIO

SUPERSTRUCTURE DETAILS
BR. NO. FRA-270-1423 S.
IR 270 UNDER
GROVEPORT ROAD

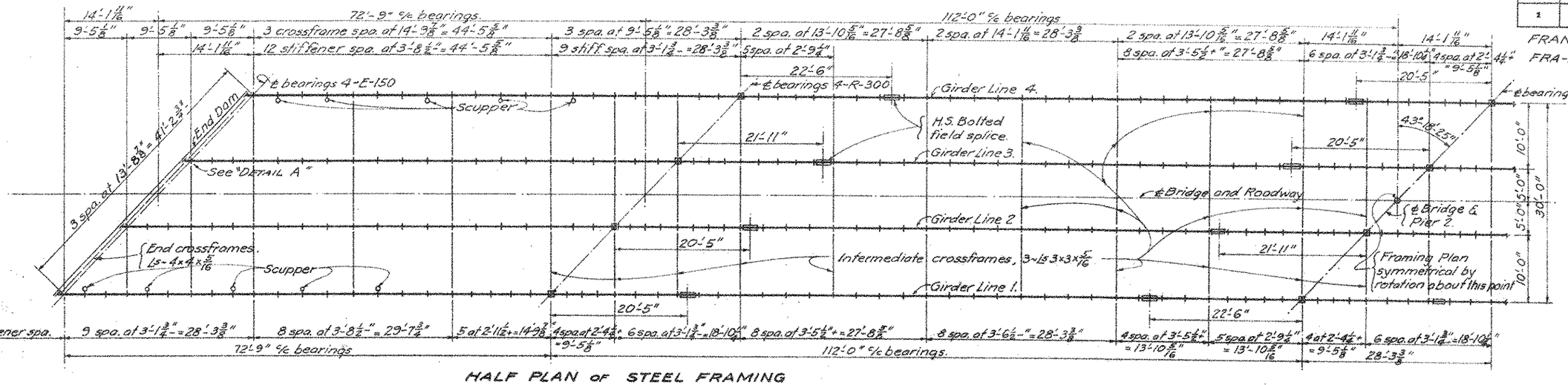
FRANKLIN COUNTY STA. 674+31.40

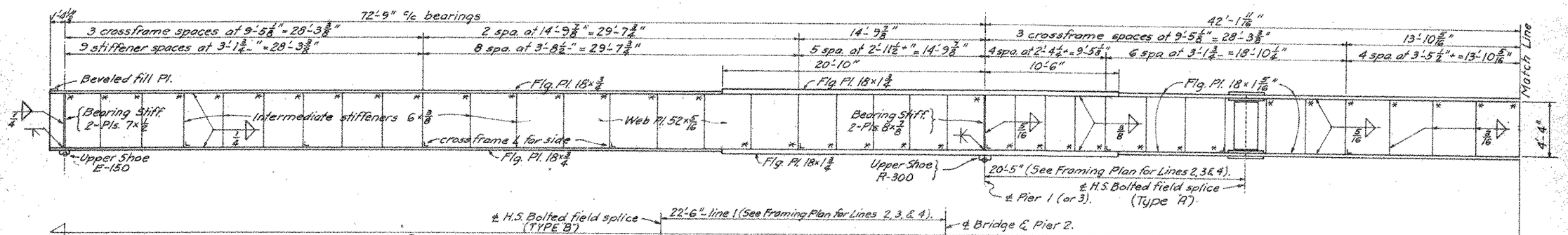
DESIGNED	DRAWN	TRACED	CHECKED	REVISED DATE	REVISED
WCR	WCR		BWJ	WCR 3-16-60	

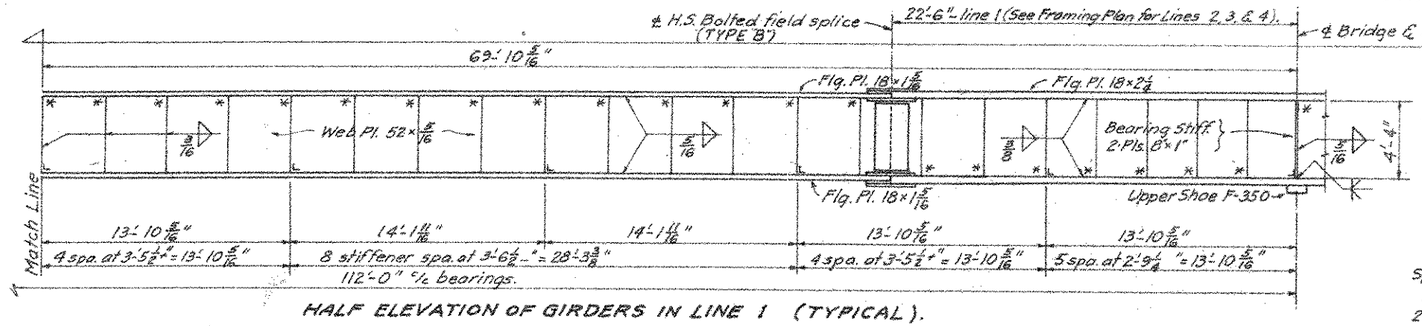
FED. ROAD DIV. NO.	STATE	FED. AID PROJ. NO.	TYPE FUNDS
2	OHIO		

295
332

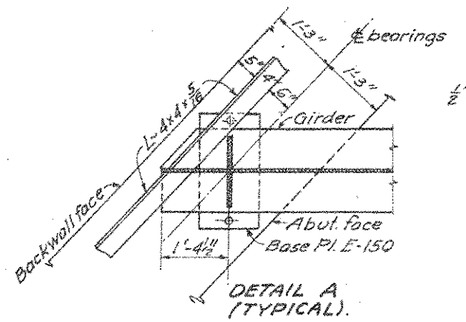
FRANKLIN COUNTY
FRA-270-11.59S



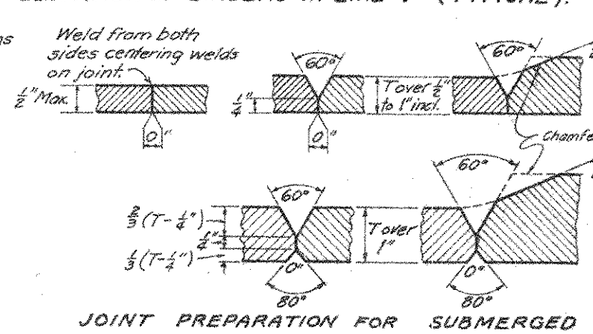




HALF ELEVATION OF GIRDERS IN LINE 1 (TYPICAL).



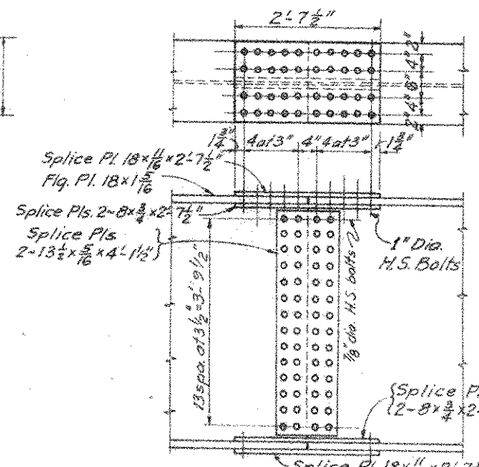
DETAIL A (TYPICAL).



JOINT PREPARATION FOR SUBMERGED ARC WELDMENTS.

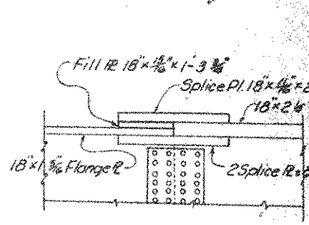
All of the full penetration welds shall be back gouged and welded after welding far side

Butt welds on girder flange plates shall be ground flush, the finish being parallel to the direction of stress.



BOLTED GIRDER SPLICE TYPE "A"

"*" Denotes stiffener in close contact with flange.



PART ELEVATION BOLTED GIRDER SPLICE TYPE "B"

(For additional details refer to Type "A" Bolted Girder Splice)

BURGESS & NIPLE LIMITED — CONSULTING ENGINEERS
COLUMBUS 13, OHIO

FRAMING PLAN AND GIRDER DETAILS
BRIDGE No. FRA-270-14235
IR 270 UNDER GROVEPORT ROAD
FRANKLIN COUNTY STA. 674+31.40

DESIGNED	DRAWN	TRACED	CHECKED	REVISIONS DATE	REVISIONS
K.E.D.	K.E.D.	K.E.D.	D.W.J.	11-8-83	

FED. ROAD DIV. NO.	STATE	FED. AID PROJ. NO.	TYPE FUNDS
2	OHIO		

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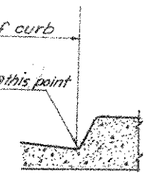
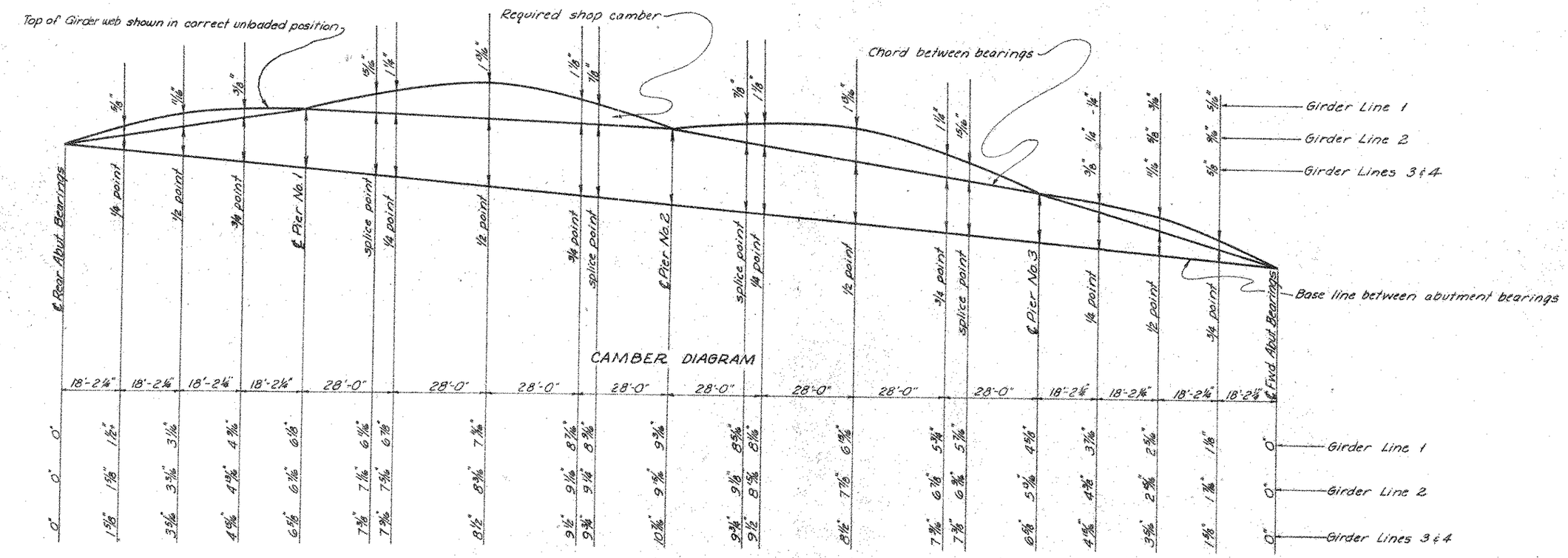
FRANKLIN COUNTY
FRA - 270 - 11.59 S.



DECK ELEVATIONS AT FACE OF CURB (before deck concrete is placed) Note: the points correspond to the camber diagram below

Location	℄ Rear Abt.	1/4 pt.	1/2 pt.	3/4 pt.	℄ Pier No.1	1/4 pt.	1/2 pt.	3/4 pt.	℄ Pier No.2	1/4 pt.	1/2 pt.	3/4 pt.	℄ Pier No.3	1/4 pt.	1/2 pt.	3/4 pt.	℄ Fwd. Abut.
Right Curb	756.11	756.24	756.33	756.39	756.44	756.53	756.57	756.51	756.42	756.34	756.23	756.02	755.76	755.60	755.48	755.36	755.19
Left Curb	756.27	756.38	756.44	756.47	756.50	756.55	756.54	756.45	756.31	756.19	756.04	755.79	755.49	755.30	755.10	754.88	754.61



DEFLECTION AND CAMBER TABLE (IN INCHES)

	SPAN 1			SPAN 2					SPAN 3					SPAN 4								
	All girder lines			All girder lines					All girder lines					Girder line 1			Girder line 2			Girder lines 3&4		
Point (see above diagram)	1/4	1/2	3/4	Spl	1/4	1/2	3/4	Spl	Spl	1/4	1/2	3/4	Spl	1/4	1/2	3/4	1/4	1/2	3/4	1/4	1/2	3/4
Deflection due to weight of steel	.053	.055	.017	.062	.090	.149	.072	.045	.045	.072	.149	.090	.062	.017	.055	.053	.017	.055	.053	.017	.055	.053
Deflection due to remaining D.L.	.242	.252	.077	.285	.409	.680	.328	.207	.207	.328	.680	.409	.285	.077	.252	.242	.077	.252	.242	.077	.252	.242
Adjustment reqd. for vertical curve	.303	.404	.303	.570	.720	.960	.720	.614	.614	.720	.960	.720	.570	-.314	-.136	.035	.149	.301	.252	.305	.406	.304
Algebraic Sum	.598	.711	.397	.917	1.219	1.789	1.120	.866	.866	1.120	1.789	1.219	.917	-.220	.171	.330	.243	.608	.547	.399	.713	.599
Required shop camber	5/8"	11/16"	3/8"	15/16"	1 1/4"	1 13/16"	1 1/8"	7/8"	7/8"	1 1/8"	1 13/16"	1 1/4"	15/16"	-1/4"	3/16"	5/16"	1/4"	5/8"	9/16"	3/8"	11/16"	5/8"

BURGESS & NIPLE LIMITED — CONSULTING ENGINEERS
COLUMBUS 12, OHIO

CAMBER DIAGRAM ℄
DECK ELEVATIONS
BRIDGE NO. FRA-270-1423 S
IR 270 UNDER
GROVEPORT ROAD
FRANKLIN COUNTY STA 674+31.60

DESIGNED	DRAWN	TRACED	CHECKED	REVISED DATE	REVISED
DWT	DWT		WEB	MAR 3-16-66	

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY FRA-270-11.59S

BENCH MARKS

℄ I-270 Sta 697+10 360'Rt. R.R. spike W. side 36" oak Elev. 747.245

℄ I-270 Sta. 706+40 630'Rt R.R. spike N.W. side 30" cottonwood Elev. 716.140

All traffic volumes are for 1988

I-270 Curve Data

Δ - 36°14'42"
D - 1°00' to the Lt.
R - 5729.578'
T - 3062.202'
L - 5624.499'
E - 766.970'

PROPOSED STRUCTURE

Type: 4 span cont. steel girders with reinf. conc. deck & substructure
Span: 69.75', 98.0', 128.25', 83.5' % Lengths
Roadway: 30'-0" ₣ 2'-0" safety curbs

Load Frequency: CF-2000(51)
Skew: 33°32'12" Rt. Fwd.
Wearing Surface: 1" Mono. conc.
Approach Slab: Special (25' long)
Alignment: Tangent

DEleuw, Gather & Brill
CONSULTING ENGINEERS
NEW YORK, N.Y. · COLUMBUS, OHIO · BUFFALO, N.Y.

SITE PLAN

BRIDGE No. FRA-270-1465 & 1466
UNDER RELOC. ALUM CREEK DRIVE
FRANKLIN COUNTY COLUMBUS SUBURBS
STA. 697+35.69

DESIGNED	DRAWN	TRACED	CHECKED	REVISED	DATE	VOL.
M.M.	Y.M.	Y.N.	V.L. A.	DEPT. 7 No. 16 4/83		

FED. ROAD DIV. NO.	STATE	FED. AID PROJ. NO.	TYPE FUNDS
2	OHIO		

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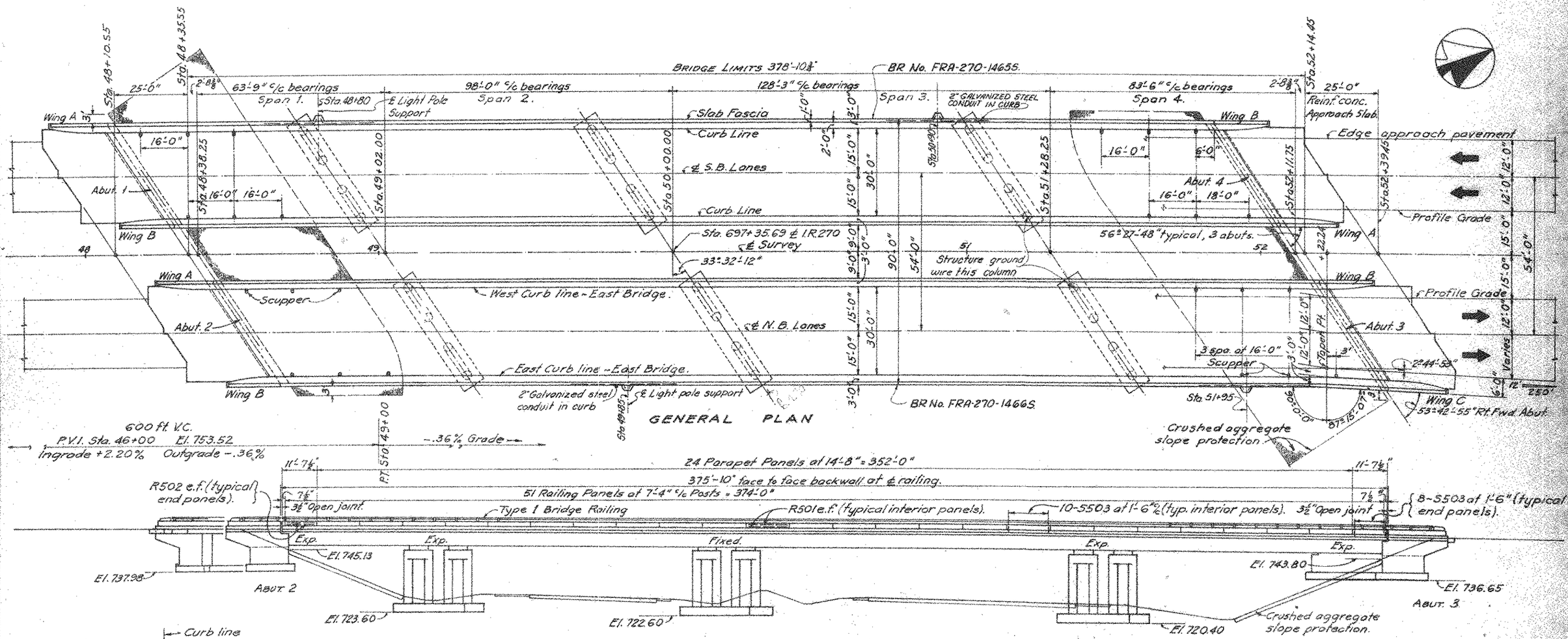
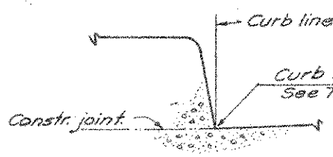
FRANKLIN COUNTY
FRA-270-11.59 S





Note: For Approach Slab Details See Sheet 262

Note: For light pole support, conduit Details & Grounding, See Sht. 198

CURB SETTING ELEVATION TABLE (before placement of deck concrete)

LOCATION	R1	SPAN 1			R2	SPAN 2			R3	SPAN 3				R4	SPAN 4			R5
		1.25	1.50	1.75		2.25	2.50	2.75		3.20	3.40	3.60	3.80		4.25	4.50	4.75	
(1) West Curb - West Bridge	752.54	752.55	752.54	752.51	752.47	752.41	752.32	752.22	752.13	752.08	752.03	751.94	751.81	751.67	751.59	751.54	751.47	751.37
(4) East Curb - West Bridge	752.54	752.53	752.51	752.46	752.41	752.34	752.25	752.14	752.06	752.01	751.96	751.87	751.73	751.60	751.52	751.47	751.39	751.30
(5) West Curb - East Bridge	752.525	752.51	752.47	752.42	752.36	752.28	752.19	752.09	752.00	751.95	751.90	751.81	751.68	751.54	751.47	751.41	751.34	751.24
(8) East Curb - East Bridge.	752.49	752.46	752.41	752.35	752.29	752.21	752.12	752.02	751.93	751.88	751.83	751.74	751.61	751.47	751.39	751.34	751.26	751.16

BURGESS & NIPLE LIMITED — CONSULTING ENGINEERS
COLUMBUS 12, OHIO

GENERAL PLAN & ELEVATION
BRIDGES No. FRA-270-14655 & 14665
I.R. 270 UNDER
ALUM CREEK DRIVE
FRANKLIN COUNTY STA. 697+35.69

DESIGNED	DRAWN	TRACED	CHECKED	REVISED DATE	REVISED
KED	KED	KED	DWT	WAR 10-18-65	

FED. ROAD DIV. NO.	STATE	FED. AID PROJ. NO.	TYPE FUNDS
5	OHIO		

299
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FRANKLIN COUNTY
FRA-270-11.59S

ESTIMATED QUANTITIES ~ Bridge Nº 1465S & 1466S (Both Bridges)

ITEM No.	TOTAL	UNIT	DESCRIPTION	SUPERSTR.	ABUTS.	PIERS	GENERAL		
503	1060	cu. yds.	Unclassified excavation		570	490			
509	347,177	lbs.	Reinforcing steel.	251,672	20,965	74,540			
511	935	cu. yds.	Class "C" concrete, superstructure.	935					
511	161	cu. yds	Class "C" concrete, piers above footings.			161			
511	306	cu. yds.	Class "E" concrete, abutment walls.		306				
511	374	cu. yds.	Class "E" concrete, footings.		110	264			
513	829,200	lbs.	Structural steel	829,200					
514	829,200	lbs.	Field painting structural steel.	829,200					
517	1652.65	lin. ft.	Bridge Railing Type I	1503.36	149.29				
518	94	cu. yds.	Porous backfill.				94		
518	138	lin. ft.	6" Helical C.M.P. 707.06 non-perforated.		138				
518	140	lin. ft.	6" Perforated helical C.M.P. 707.06 incl. specials		140				
518	24	each	Scuppers, Type 2, including supports.	24					
625			(For Electrical Quantities See Sheet 19A)						
601	1300	sq. yds.	Crushed aggregate slope protection.				1300		
808	935	Units	Water-reducing, set-retarding admixture.	935					
825	3520	sq yds	Concrete Surface Treatment	3400	120				
828	144	lin. ft.	Joint Sealer (end dam)	144					

DESIGN SPECIFICATIONS: These structures conform to the requirements of "Design Specifications for Highway Structures" of the State of Ohio, Department of Highways dated 9-1-57, together with current revisions thereof.

DESIGN LOADING: CF 2000 (57).

DESIGN DATA:
Concrete Class "C" - basic unit stress 1333 psi.
Concrete Class "E" - basic unit stress 1133 psi.
Structural Steel - ASTM A36 - basic unit stress 20000 psi

Reinforcing Steel - ASTM A15, A16, A160 Deformed, Intermediate or Hard Grade. Basic unit stress 20,000 psi. except spiral reinforcement may be plain, Structural Grade with basic unit stress of 18,000 psi.

REFERENCE shall be made to Standard Drawings
BR-1-65, sheet 1, revised 11-24-65;
FSB-1-62, revised 1-15-63;
SD-1-65 sh 1 & 2 dated 11-8-65

RB-1-55, revised 2-2-59;
and to Supplemental Specifications
808, dated 2-7-66 and
811, dated 3-29-65.
825, dated 4-22-65
828, dated 3-21-66.

UTILITY LINES: All expense in relocating affected utility lines shall be borne by the owners. The Contractor and Owners are requested to cooperate by arranging their work in such a manner that inconvenience to either will be held to a minimum.

BURGESS & NIPLE LIMITED — CONSULTING ENGINEERS
COLUMBUS 12, OHIO

GENERAL NOTES AND ESTIMATED QUANTITIES
BRIDGES No. FRA-270-1465S & 1466S
IR 270 UNDER
ALUM CREEK DRIVE
FRANKLIN COUNTY STA. 697+35.65

DESIGNED	DRAWN	TRACED	CHECKED	REVISED DATE	REVISED
KED	KED	KED	DWT	AUG 10-1965	

FED. ROAD DIV. NO.	STATE	FED. AID PROJ. NO.	TYPE FUNDS
2	OHIO		

300
332

FRANKLIN COUNTY
FRA-270-11.59 S

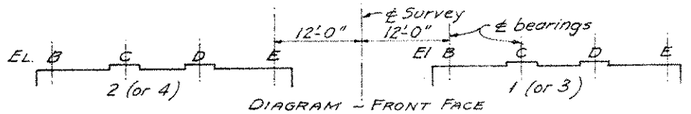
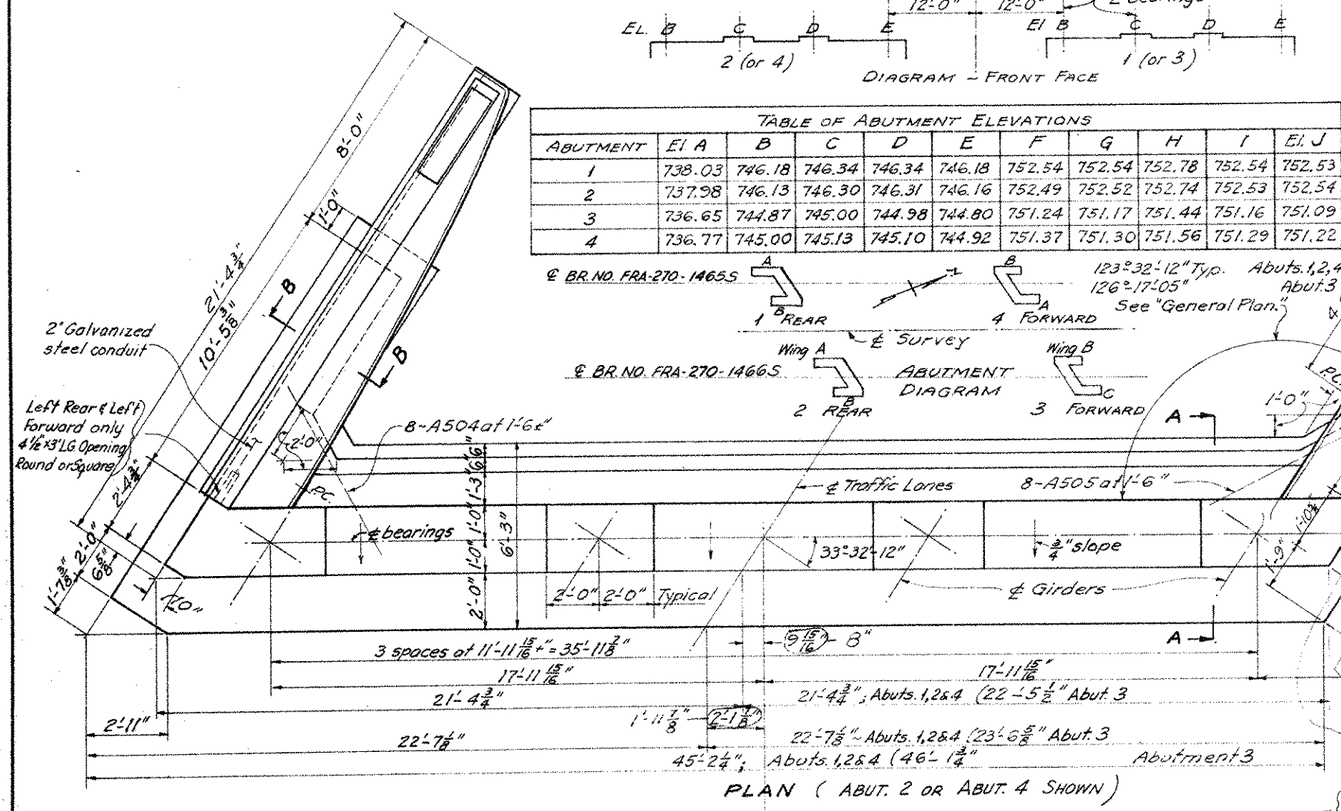


DIAGRAM - FRONT FACE

TABLE OF ABUTMENT ELEVATIONS

ABUTMENT	El. A	B	C	D	E	F	G	H	I	El. J
1	738.03	746.18	746.34	746.34	746.18	752.54	752.54	752.78	752.54	752.53
2	737.98	746.13	746.30	746.31	746.16	752.49	752.52	752.74	752.53	752.54
3	736.65	744.87	745.00	744.98	744.80	751.24	751.17	751.44	751.16	751.09
4	736.77	745.00	745.13	745.10	744.92	751.37	751.30	751.56	751.29	751.22



BRIDGE SEAT REINFORCING:
Special care shall be taken in placing reinforcing steel in the vicinity of the bridge seat so as to avoid interference with the drilling of anchor rod holes.

POROUS BACKFILL shall extend upward from the top of footing to bottom of approach slab and outward to the back of the wingwalls.

FOUNDATION BEARING PRESSURE:-
Abutment footings are designed for a maximum bearing pressure of 2.2 tons per square foot.

LEGEND
e.f. = each face.
n.f. = near face.
f.f. = far face.

BURGESS & NIPLE LIMITED — CONSULTING ENGINEERS
COLUMBUS 12, OHIO

ABUTMENTS

BRIDGES No. FRA-270-1465S & 1466S
IR 270 UNDER
ALUM CREEK DRIVE

FRANKLIN COUNTY STA. 697+35.69

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED DATE	REVISED
KED	KED	KED	DWT	WLR 10-18-65	1-26-67

FED. ROAD DIV. NO.	STATE	FED. AID PROJ. NO.	TYPE FUNDS
2	OHIO		

300
332

FRANKLIN COUNTY
FRA-270-11.59 S

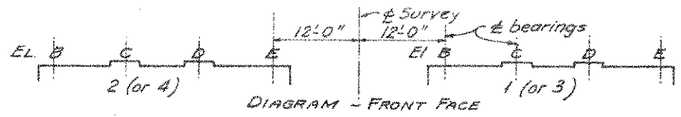
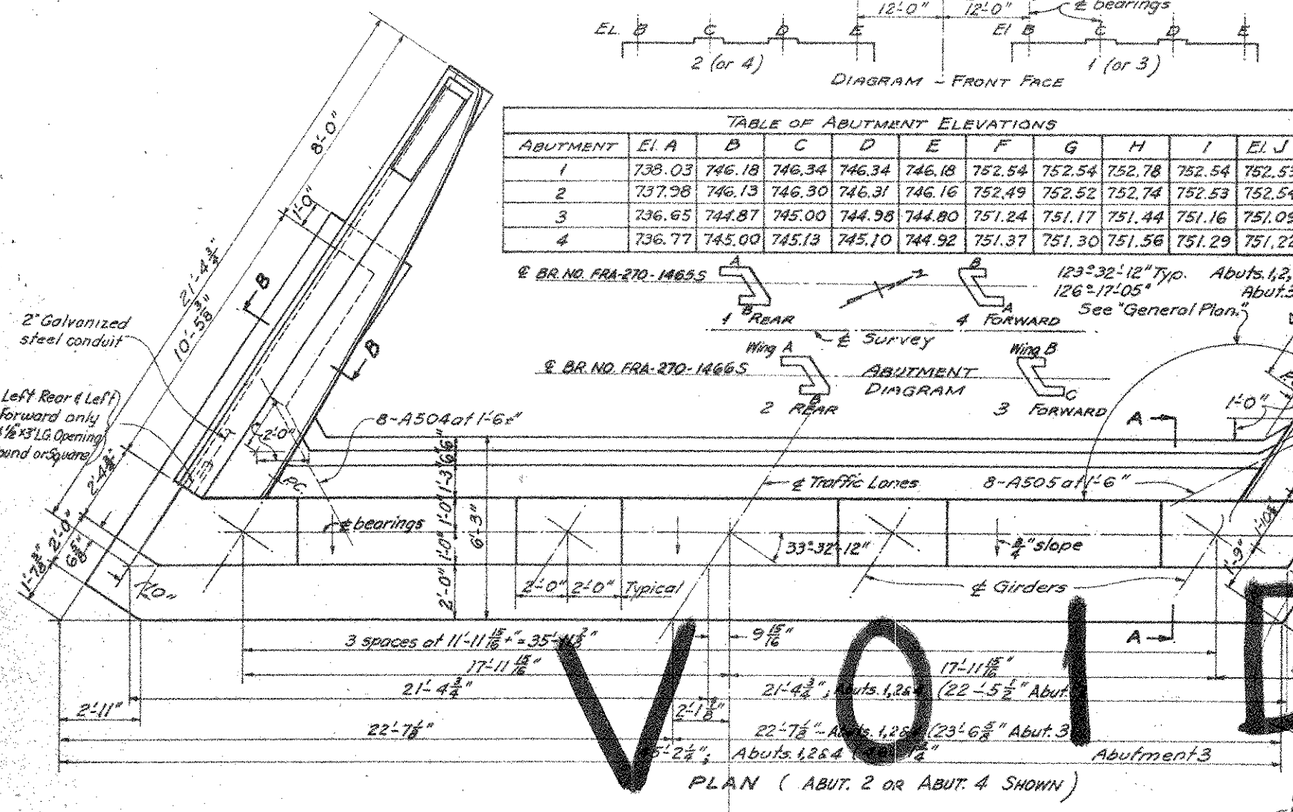
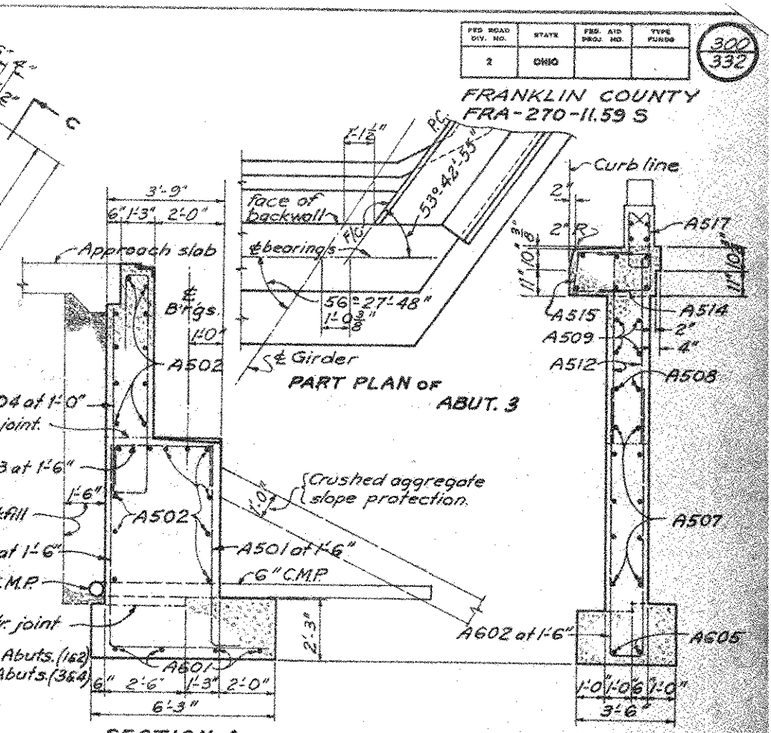


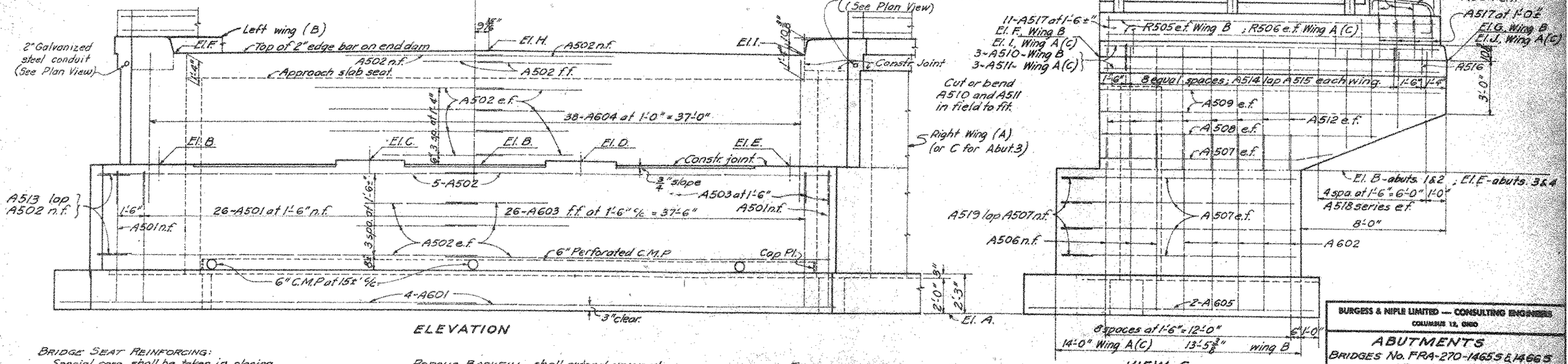
DIAGRAM - FRONT FACE

TABLE OF ABUTMENT ELEVATIONS

ABUTMENT	El. A	B	C	D	E	F	G	H	I	El. J
1	738.03	746.18	746.34	746.34	746.18	752.54	752.54	752.78	752.54	752.53
2	737.98	746.13	746.30	746.31	746.16	752.49	752.52	752.74	752.53	752.54
3	736.65	744.87	745.00	744.98	744.80	751.24	751.17	751.44	751.16	751.09
4	736.77	745.00	745.13	745.10	744.92	751.37	751.30	751.56	751.29	751.22







BRIDGE SEAT REINFORCING:
Special care shall be taken in placing reinforcing steel in the vicinity of the bridge seat so as to avoid intereference with the drilling of anchor rod holes.

POROUS BACKFILL shall extend upward from the top of footing to bottom of approach slab and outward to the back of the wingwalls.

FOUNDATION BEARING PRESSURE:-
Abutment footings are designed for a maximum bearing pressure of 2.2 tons per square foot.

LEGEND
e.f. = each face.
n.f. = near face.
f.f. = far face.

BURGESS & NIPLE LIMITED — CONSULTING ENGINEERS
COLUMBUS 12, OHIO

ABUTMENTS
BRIDGES No. FRA-270-1465S & 1466S
IR 270 UNDER
ALUM CREEK DRIVE

FRANKLIN COUNTY STA. 697+35.63

DESIGNED	DRAWN	TRACED	CHECKED	REVISED DATE	REVISED
KED	KED	KED	DWT	WSR 10-18-65	

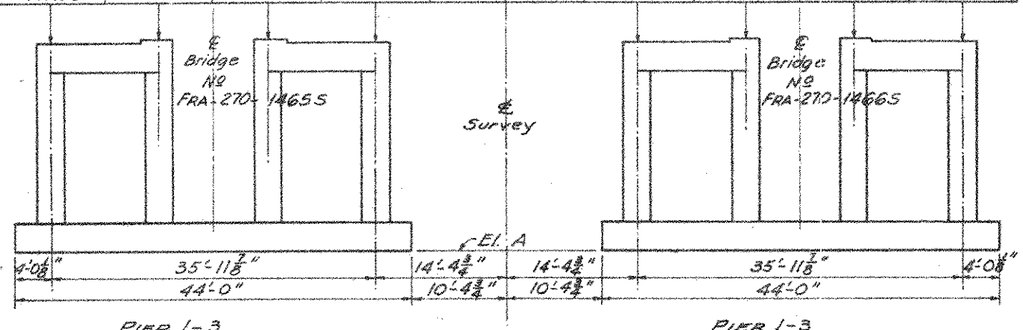
FED. ROAD DIV. NO.	STATE	FED. AID PROJ. NO.	TYPE FUNDS
2	OHIO		

301 / 332

FRANKLIN COUNTY
FRA-270-11.59S

PIER ELEVATIONS

El. A	El. B	El. C	El. D	El. E	Pier No. & Sta.	El. B	El. C	El. D	El. E
723.60	744.90	745.04	745.02	744.85	1 Sta. 49+02.00	744.79	744.92	744.90	744.72
722.60	745.21	745.34	745.31	745.13	2 Sta. 50+00.00	745.08	745.21	745.19	745.01
720.40	743.96	744.09	744.07	743.89	3 Sta. 51+28.25	743.83	743.96	743.94	743.76

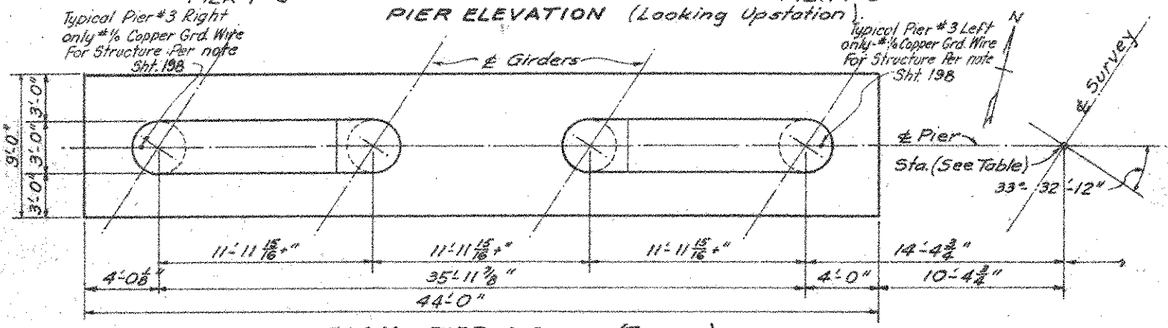


PIER 1-3

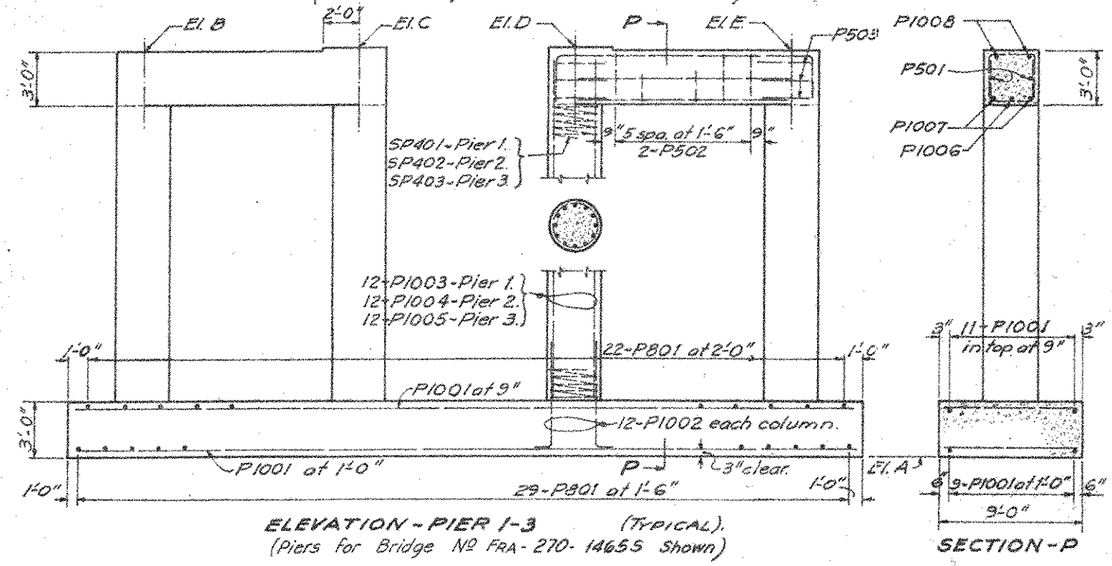
Typical Pier #3 Right only #1/0 Copper Grd. Wire For Structure Per note Sht. 198

Typical Pier #3 Left only #1/0 Copper Grd. Wire For Structure Per note Sht. 198

PIER ELEVATION (Looking Upstation)



PLAN - PIER 1-3 (TYPICAL)
(Piers for Bridge No FRA-270-1466S Shown)



ELEVATION - PIER 1-3 (TYPICAL).
(Piers for Bridge No FRA-270-1466S Shown)

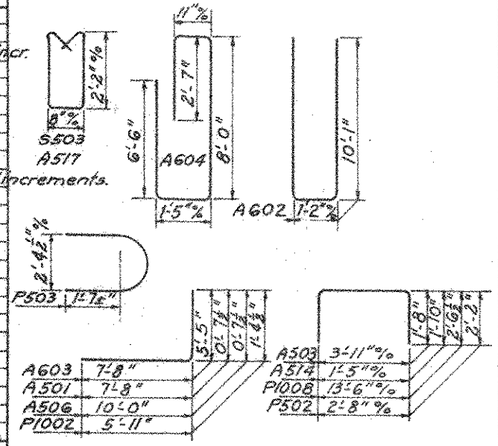
FOUNDATION BEARING PRESSURE :- Pier footings are designed for a maximum bearing pressure of 3.0 tons per square foot.

REINFORCING STEEL LIST

Br. No FRA-270-1465S & 1466S (Both Bridges)

Mark	No.	Length	Weight	Shape
SUPERSTRUCTURE				
S701	1052	35'-8"	76694	S.
S702	4 sets/30	35'-0"/6'-0"	5028	S. 12" Incr.
S703	24	6'-0"	294	S.
S601	1052	35'-8"	56357	S
S602	1794	30'-8"	82634	S
S603	4 sets/30	35'-0"/6'-0"	3695	S. 12" Increments.
S604	24	6'-0"	216	S
S605	156	14'-6"	3398	S
S606	312	18'-6"	8670	S
S501	2008	2'-4"	4886	B
S502	1004	3'-6"	3665	B
S503	1024	5'-7"	5963	B
L501	16	7'-7"	128	B
L502	16	2'-9"	44	S
PIERS				
P1001	120	43'-6"	22462	S
P1002	288	7'-0"	8675	B
P1003	96	17'-9"	7332	S
P1004	96	19'-0"	7849	S
P1005	96	20'-0"	8262	S
P1006	72	14'-6"	749	S
P1007	24	12'-0"	1239	S
P1008	24	18'-0"	1859	B
P801	306	8'-8"	7080	S
P501	24	12'-0"	300	S
P502	144	6'-9"	1014	B
P503	72	7'-0"	526	B
RAILING				
R501	384	14'-4"	Included with railing for payment	S
R502	32	11'-3"		S
R503	24	4'-2"		B
R504	16	5'-4"		B
R505	16	17'-9"		S
R506	16	18'-10"		S

Bending Diagrams



Mark	No.	Length	Weight	Shape
ABUTMENTS				
A601	32	23'-6"	1130	S
A602	40	21'-0"	1262	B
A603	104	12'-11"	2018	B
A604	152	18'-9"	4281	B
A605	16	16'-0"	385	S
A501	112	8'-2"	954	B
A502	168	22'-0"	3855	S
A503	112	7'-0"	818	B
A504	32	7'-0"	234	S
A505	32	9'-0"	300	S
A506	24	10'-6"	263	B
A507	80	13'-0"	1085	S
A508	16	15'-6"	259	S
A509	32	18'-9"	626	S
A510	12	18'-0"	225	S
A511	12	19'-0"	238	S
A512	128	6'-9"	901	S
A513	16	4'-6"	75	B
A514	72	4'-10"	363	B
A515	72	4'-10	363	B
A516	8	5'-6"	46	B
A517	120	5'-7"	699	B
A518	16 sets/5	4'-0"/6'-4"	431	S 7 Inc.
A519	16	4'-0"	67	B
REPLACEMENT BARS				
RE1001	3	7'-2"		S
RE801	1	6'-6"		S
RE701	5	6'-2"		S
RE601	9	5'-11"		S
RE501	2	5'-7"		S
RE401	1	5'-3"		B

SPIRALS

Mark	No.	Size	Core Dia.	Length	Pitch	No. Turns	Spacer	Weight
SP401	8	½"ø	32"%	15'-0"	4½"	43	4	2224
SP402	8	½"ø	32"%	16'-6"	4½"	47	4	2432
SP403	8	½"ø	32"%	17'-3"	4½"	49	4	2537

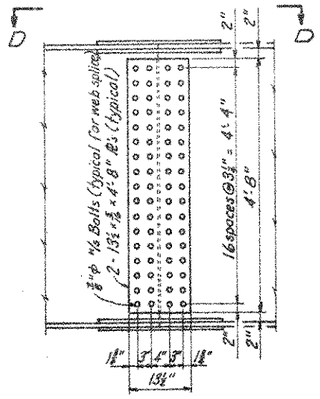
BAR SIZE is indicated in the bar mark. The first digit where three digits are used, and the first two digits where four are used, indicate the bar size number. For example, S701 is a No. 7 size bar and P1001 is a No. 10 size.

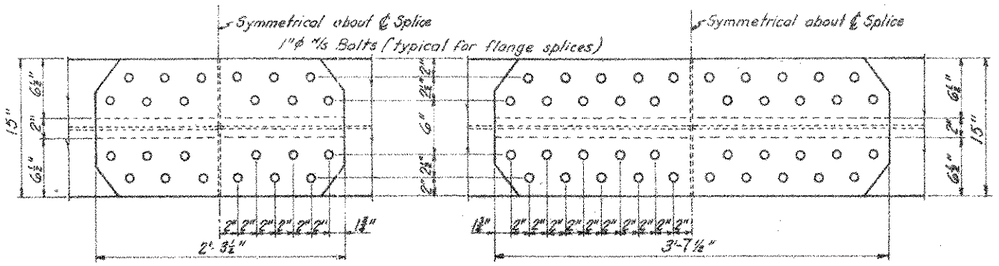
SPIRAL REINFORCING BARS :
The "Length" shown in the steel list for the spiral bars is the length of the spiral along the axis of the spiral. The "No. of Turns" shown is the length divided by the pitch, plus 3 turns (total number of closed coils). Spiral reinforcing bars shall not have deformations but shall in other respects conform to item 509. 1½ closed coils shall be provided at the ends of each spiral unit. Four steel channel, tee, or angle spacers, weighing approximately 0.68 lb. per lin. ft. of spacer, shall be provided for each spiral unit. They shall be equally spaced along the periphery of the coil. The number of pounds of these spacers, based on 0.68 lbs. per lin. ft. will be paid for as reinforcing steel and is included in the tabulated quantity of spiral bars.

BURGESS & NIPLE LIMITED — CONSULTING ENGINEERS
COLUMBUS 12, OHIO

PIER DETAILS AND REINFORCING STEEL LISTS
BRIDGES No. FRA-270-1465S & 1466S
IR-270 UNDER
ALUM CREEK DRIVE
FRANKLIN COUNTY STA. 697+35.69

DESIGNED	DRAWN	TRACED	CHECKED	REVISED DATE	REVISED
KED	KED	KED	D.W.T.	DAR 10-12-65	



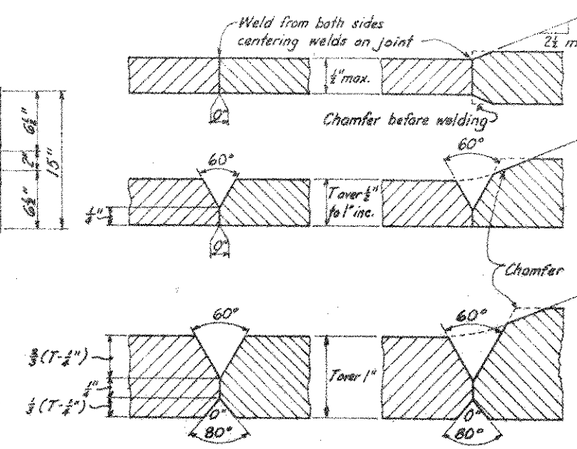


VIEW-D (Spans-1,2 & 4)

VIEW-D (Span-3)

SPLICE PLATE TABLE		
Span	Inner Plates	Outer Plates
1	6½ × 7/16 × 2'-3½"	15 × 7/16 × 2'-3½"
2 & 4	6½ × ⅜ × 2'-3½"	15 × ⅜ × 2'-3½"
3	6½ × 1⅛ × 3'-7½"	15 × 1⅛ × 3'-7½"

BOLTED FIELD SPLICE DETAILS



JOINT PREPARATION FOR SUBMERGED ARC WELDMENTS

NOTE: All the full penetration welds shall be back-gouged and welded after welding for side.

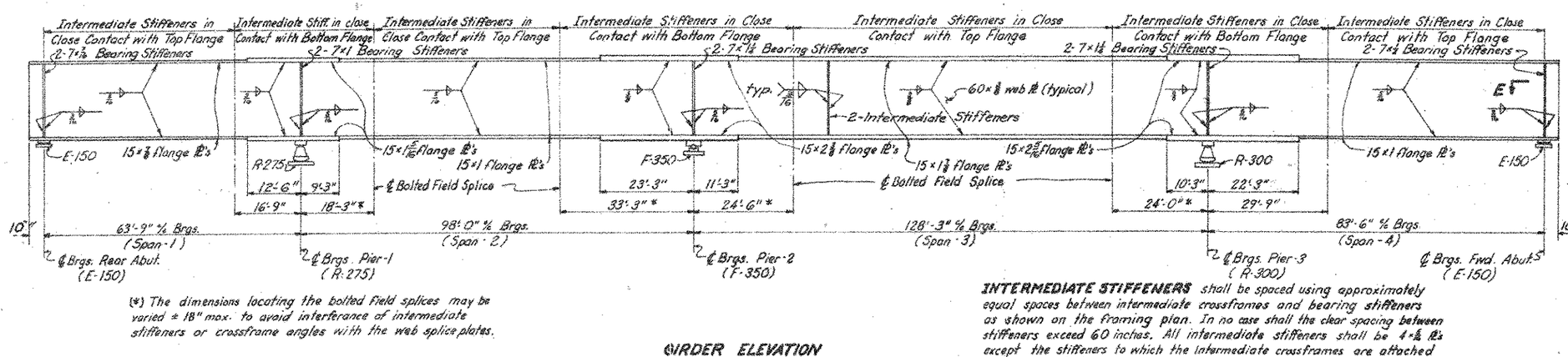
Butt welds on beam and girder flange plates shall be ground flush, the finish grinding being parallel to the direction of stress.

FED. ROAD DIV. NO.	STATE	FED. AID PROJ. NO.	TYPE FUNDS
2	OHIO		

302
332

FRANKLIN COUNTY

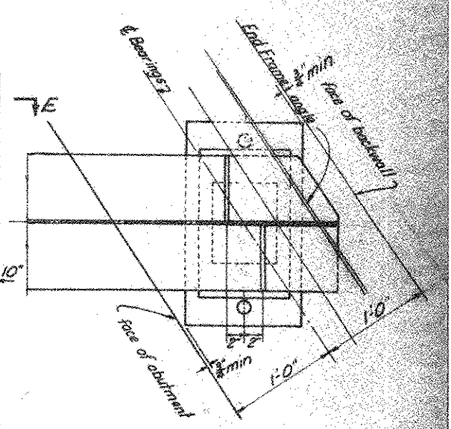
FRA-270-11.59 S



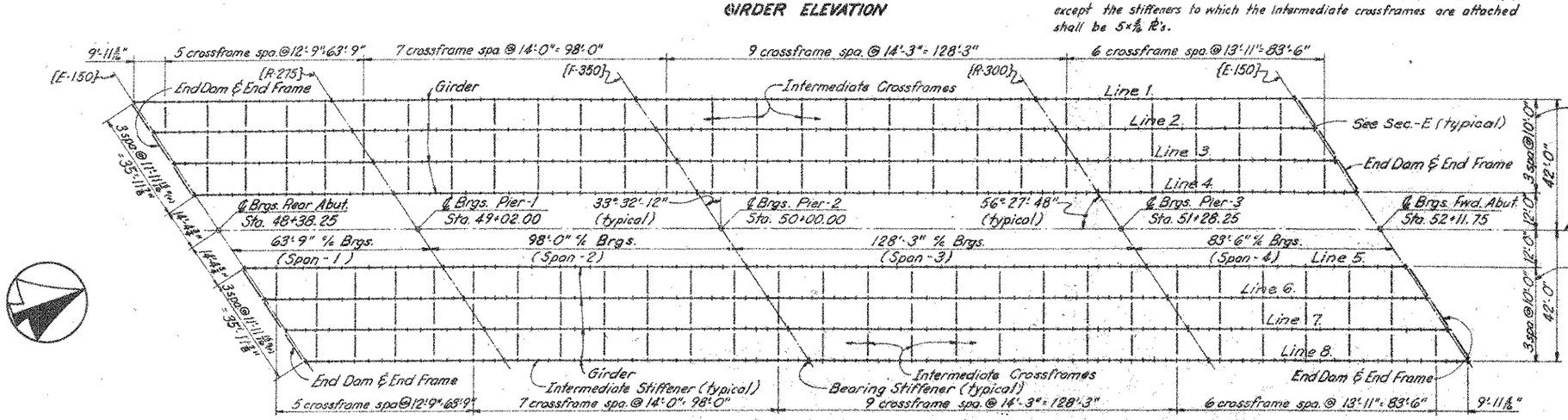
(*) The dimensions locating the bolted field splices may be varied ± 18" max. to avoid interferance of intermediate stiffeners or crossframe angles with the web splice plates.

GIRDER ELEVATION

INTERMEDIATE STIFFENERS shall be spaced using approximately equal spaces between intermediate crossframes and bearing stiffeners as shown on the framing plan. In no case shall the clear spacing between stiffeners exceed 60 inches. All intermediate stiffeners shall be 4-⅞ ℙ's except the stiffeners to which the intermediate crossframes are attached shall be 5×⅞ ℙ's.



SECTION - E (Typical)



FRAMING PLAN

For Details of	See
End Dam	Std. Drwg. SD-1-65 sheet 1
End Frame	Std. Drwg. SD-1-65 sheet 1
Curb Plates	Std. Drwg. SD-1-65 sheet 2
Scuppers (Type 2)	Std. Drwg. SD-1-65 sheet 2
Bearings	Std. Drwgs. RB-1-55 and FSB-1-62

See Sheet No. 303 for Deflection and Camber Data, and Sheet No. 304 for Layout Diagram.

BURGESS & NIPLE LIMITED — CONSULTING ENGINEERS
COLUMBUS 13, OHIO

STRUCTURAL STEEL DETAILS

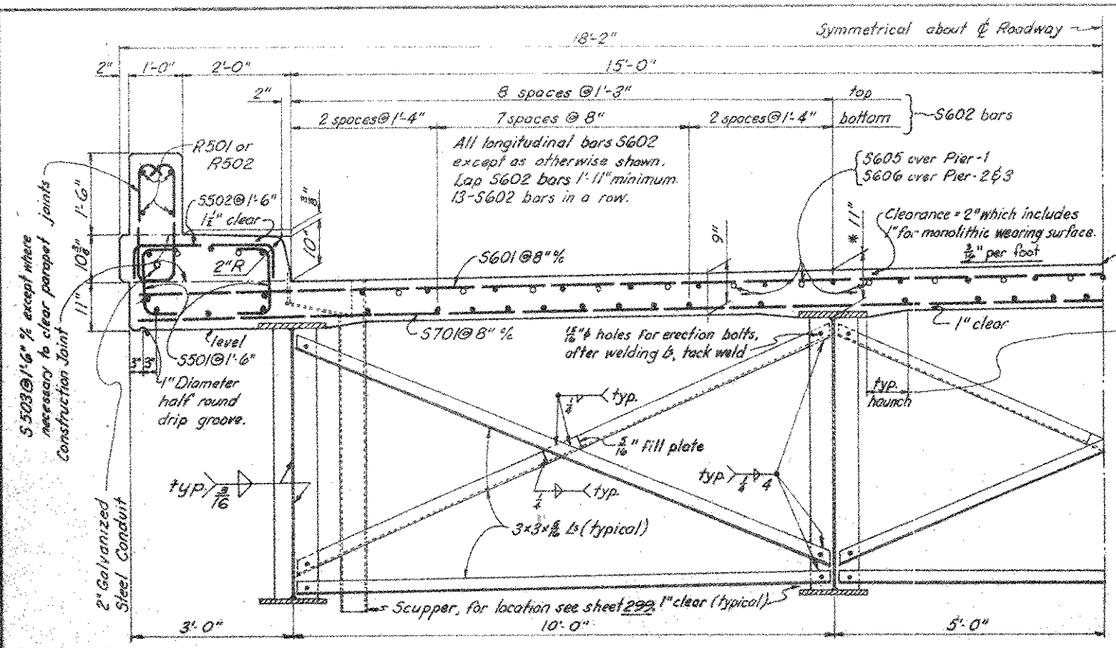
BRIDGES No. FRA-270-14655 & 14665
IR-270 UNDER
ALUM CREEK DRIVE
FRANKLIN COUNTY STA. 697+35.65

DESIGNED	DRAWN	TRACED	CHECKED	REVISED DATE	REVISION
WER	WER		AWD	WER 10-18-65	

FED. ROAD DIV. NO.	STATE	FED. AID PROJ. NO.	TYPE FUNDS
5	OHIO		

303
332

FRANKLIN COUNTY
FRA-270-11.59 S



HALF TRANSVERSE SECTION

* This is a nominal dimension. The quantity of deck concrete to be paid for shall be based on this dimension even though deviation from it may be necessary because the top flange of the girder may not have the exact camber or conformation to place it parallel to the finished grade.

CONCRETE shall be Class "C", f_c = 1333 psi.

WELDING: Any welds shown as field welds may, at the option of the Contractor, be made in the shop.

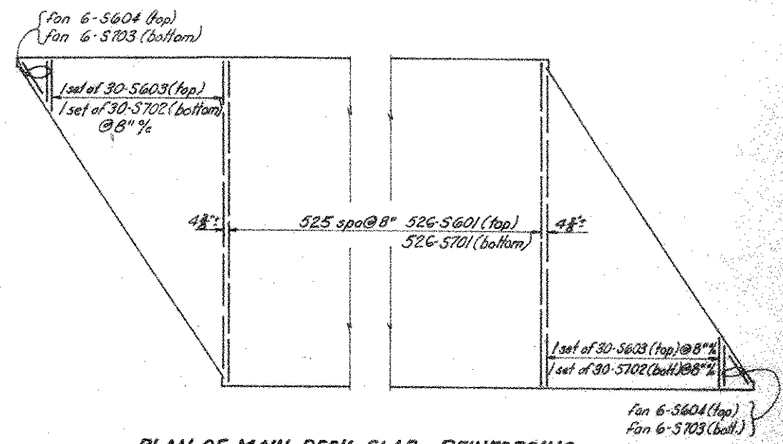
A typical haunch width of 9" shall be used for computing quantity of concrete. However, the haunch width may vary between 6" and 12" provided that the slope shall not be more than 1:4 for a haunch less than 9" in width.

MACHINE FINISH: The concrete bridge deck shall be finished by the use of a finishing machine.

SLAB THICKNESS shown includes 1" for monolithic wearing surface.

RAILING shall be "Type-1 Bridge Railing" with concrete parapet as detailed on Standard Drawing BR-1-65, sheet 1.

ADDITIONAL NOTES: For Additional notes see sheet 299

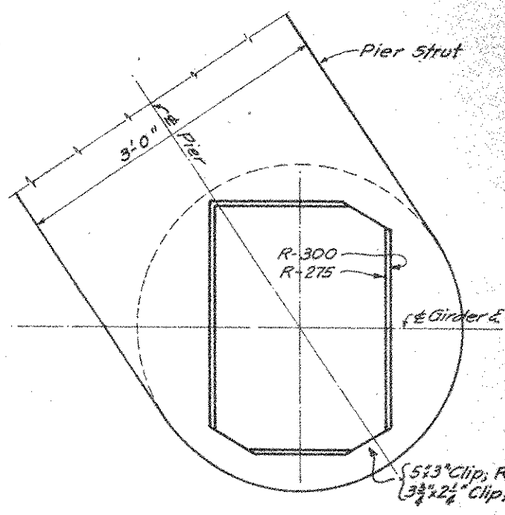


PLAN OF MAIN DECK SLAB REINFORCING

DEFLECTION AND CAMBER DATA (IN INCHES)

	Span 1				Span 2					Span 3					Span 4			
Location	¼	½	spl.	¾	spl.	¼	½	spl.	¾	spl.	¼	½	¾	spl.	¼	spl.	½	¾
Deflection due to wt. of steel	.0260	.0257	.0061	.0059	.0115	.0252	.0261	+.0033	+.0149	.1090	.1398	.2489	.1611	.1110	+.0063	.0131	.0423	.0528
Deflection due to remaining DL.	.1128	.1117	.0266	.0258	.0500	.1093	.1133	+.0144	+.0646	.4730	.6937	1.0802	.6990	.4819	+.0273	.0569	.1838	.2290
Adjustment for V.C. — Line 1	.1944	.2592	.2016	.1956	.1248	.1272	.0852	.0576	.0420	0	0	0	0	0	0	0	0	0
Line 2	"	"	"	"	.0756	.0708	.0480	.0324	.0240	"	"	"	"	"	"	"	"	"
Line 3	"	"	"	"	.0336	.0300	.0204	.0144	.0096	"	"	"	"	"	"	"	"	"
Line 4	"	"	"	"	.0072	.0060	.0036	.0024	.0024	"	"	"	"	"	"	"	"	"
Line 5	.1884	.2472	.1824	.1764	0	0	0	0	0	"	"	"	"	"	"	"	"	"
Line 6	.1776	.2256	.1500	.1428	"	"	"	"	"	"	"	"	"	"	"	"	"	"
Line 7	.1608	.1920	.1104	.1056	"	"	"	"	"	"	"	"	"	"	"	"	"	"
Line 8	.1380	.1452	.0780	.0744	"	"	"	"	"	"	"	"	"	"	"	"	"	"
Summation — Line 1	.3332	.3966	.2343	.2273	.1863	.2617	.2246	.0399	+.0375	.5820	.8535	1.3291	.8601	.5929	+.0336	.0700	.2261	.2818
Line 2	"	"	"	"	.1371	.2053	.1874	.0147	+.0555	"	"	"	"	"	"	"	"	"
Line 3	"	"	"	"	.0951	.1645	.1598	+.0033	+.0699	"	"	"	"	"	"	"	"	"
Line 4	"	"	"	"	.0687	.1405	.1430	+.0153	+.0771	"	"	"	"	"	"	"	"	"
Line 5	.3272	.3846	.2151	.2081	.0615	.1345	.1394	+.0177	+.0795	"	"	"	"	"	"	"	"	"
Line 6	.3164	.3630	.1827	.1745	"	"	"	"	"	"	"	"	"	"	"	"	"	"
Line 7	.2996	.3294	.1431	.1373	"	"	"	"	"	"	"	"	"	"	"	"	"	"
Line 8	.2768	.2826	.1107	.1061	"	"	"	"	"	"	"	"	"	"	"	"	"	"
Reqd. Shop Camber — Line 1	1/32	2/32	¼	7/32	3/16	¼	7/32	1/32	+ 1/32	13/32	27/32	1 1/32	⅞	19/32	+ 1/32	1/16	7/32	9/32
Line 2	"	"	"	"	⅛	7/32	3/16	0	+ 1/16	"	"	"	"	"	"	"	"	"
Line 3	"	"	"	"	3/32	5/32	5/32	0	+ 1/16	"	"	"	"	"	"	"	"	"
Line 4	"	"	"	"	1/16	⅛	5/32	0	+ 1/16	"	"	"	"	"	"	"	"	"
Line 5	5/16	3/8	7/32	7/32	1/16	⅛	⅛	+ 1/32	+ 3/32	"	"	"	"	"	"	"	"	"
Line 6	5/16	3/8	5/16	3/16	"	"	"	"	"	"	"	"	"	"	"	"	"	"
Line 7	5/16	11/32	5/32	⅛	"	"	"	"	"	"	"	"	"	"	"	"	"	"
Line 8	9/32	9/32	⅛	3/32	"	"	"	"	"	"	"	"	"	"	"	"	"	"

NOTE: See Sheet 304 for "Layout Diagram."



TYPICAL DETAIL OF CLIP ON CORNERS OF R-275 AND R-300 BASE PLATES.

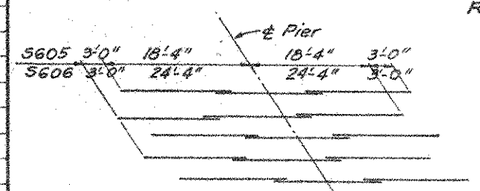


DIAGRAM SHOWING STAGGER OF S605 AND S606 BARS OVER PIERS

BURGESS & NIPLE LIMITED — CONSULTING ENGINEERS
COLUMBUS 12, OHIO

SUPERSTRUCTURE DETAILS

BRIDGES No. FRA-270-14655 & 14663
I.R.-270 UNDER
ALUM CREEK DRIVE

FRANKLIN COUNTY STA. 697+35.63

DESIGNED	DRAWN	TRACED	CHECKED	REVISIONS DATE	REVISED
WER ONT	WER ONT		MJS KED	WER 10-13-65	

CENTER LINE SURVEY PLAT

OHIO DEPARTMENT OF HIGHWAYS

FRA-270-11.59S

FRANKLIN COUNTY OHIO

HAMILTON TOWNSHIP & CORPORATION OF OBETZ

LIMITED ACCESS

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-IG-270-4(22)102	

FRANKLIN COUNTY
FRA-270-11.59S

305/332

1/28

400 0 400
GRAPHIC SCALE IN FEET

I-270 Center Line Monuments
POT Sta. 536+00.00
POT Sta. 542+00.00
POT Sta. 532+00.00
POT Sta. 560+00.00
POT Sta. 570+00.00
POT Sta. 578+00.00
POT Sta. 588+00.00
POT Sta. 596+00.00
POT Sta. 604+00.00
POT Sta. 614+00.00
POT Sta. 622+00.00
POT Sta. 630+00.00
POT Sta. 638+00.00
POT Sta. 645+00.00
POT Sta. 653+00.00
POT Sta. 662+00.00
POT Sta. 678+00.00
PC Sta. 678+64.70
POC Sta. 688+00.00
POC Sta. 695+00.00
POC Sta. 708+94.32
POC Sta. 718+00.00

Lockbourne Road Center Line Reference Monuments
POT Sta. 39+00.00-22°W Lt.
POT Sta. 48+00.00 - 22°Rt. & Lt.
P.I. Sta. 52+00.00 - 22°Rt. & Lt.
POT Sta. 57+00.00 - 22°Rt. & Lt.

Relocated Obetz-Reese Road - Center Line Reference Monuments
POT Sta. 22+00.00 - 18°Rt. & Lt.
P.I. Sta. 28+98.15 - 18°Rt. & Lt.
POT Sta. 38+00.00 - 18°Rt. & Lt.

Graveport Road Center Line Reference Monuments
POT Sta. 131+00.00 - 29°Rt. & Lt.
P.O. Sta. 140+06.14 - 29°Rt. & Lt.
P.T. Sta. 143+77.08 - 29°Rt. & Lt.
POT Sta. 149+00.00 - 29°Rt. & Lt.
POT. Sta. 158+00.00 - 30°Rt. & Lt.

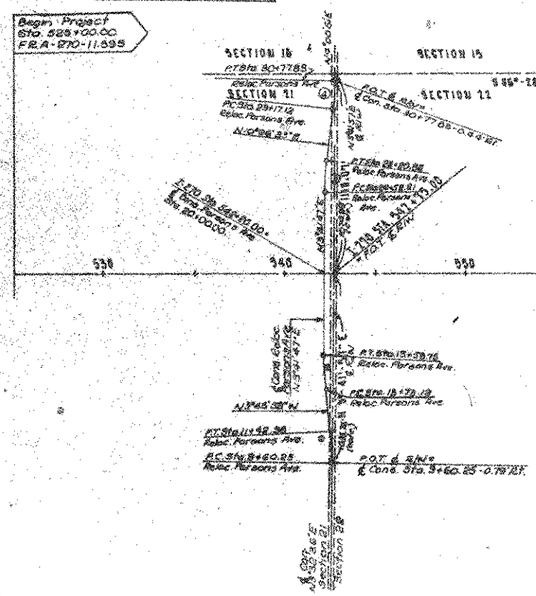
Stegner Street Center Line Reference Monuments
P.I. Sta. 3+68.85 - 30°Rt. & Lt.
POT Sta. 9+75.00 - 30°Rt. & Lt.

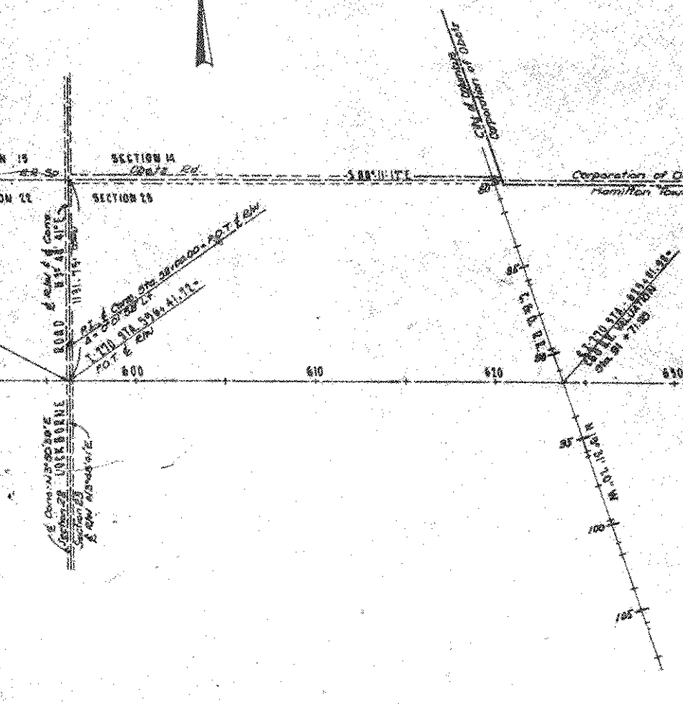
Samson Frontage Road Center Line Reference Monuments
PC1 Sta. 3+86.16 - 16°Rt. & Lt.
PT1 Sta. 5+33.79 - 16°Rt. & Lt.
PC2 Sta. 8+06.69 - 16°Rt. & Lt.
PT2 Sta. 14+28.25 - 16°Rt. & Lt.
RC3 Sta. 19+57.04 - 16°Rt. & Lt.
PT3 Sta. 26+59.89 - 16°Rt. & Lt.
POT Sta. 35+58.84 - 16°Rt. & Lt.

Relocated Parsons Avenue Center Line Reference Monuments
POT. Sta. 3+00.00 - 22°Rt. & Lt.
P.I.1 Sta. 10+51.74 - 22°Rt. & Lt.
P.I.2 Sta. 14+66.56 - 22°Rt. & Lt.
POT Sta. 22+00.00 - 22°Rt. & Lt.
P.I.3 Sta. 25+36.64 - 22°Rt. & Lt.
P.I.4 Sta. 28+97.56 - 22°Rt. & Lt.
POT Sta. 31+50.00 - 22°Rt. & Lt.

Relocated Alum Creek Drive - Center Line Reference Monuments
POT Sta. 34+00.00
POT Sta. 40+00.00
POT Sta. 48+00.00
POT Sta. 54+00.00
POT Sta. 61+70.81
P.C. Sta. 67+08.31 - 48°Rt. & Lt.
P.I. Sta. 68+97.47 - 48°Rt. & Lt.
P.T. Sta. 70+84.45 - 30°Rt. & Lt.

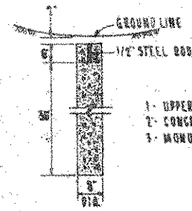
Begin Project
Sta. 525+00.00
FRA-270-11.59S





Curve Data Relocated Parsons Avenue

Curve No.	P.I. Station	Δ	Dc	R	T	L	E
1	10+51.74	7°18'34" Lt.	4°00'00"	1432.39'	91.49'	182.73'	2.92'
2	14+66.60	7°27'45" Rt.	4°00'00"	1432.39'	93.41'	186.56'	3.04'
3	25+36.63	6°14'46" Rt.	4°00'00"	1432.39'	84.42'	168.65'	2.49'
4	28+97.56	6°25'42" Lt.	4°00'00"	1432.39'	80.44'	160.71'	2.26'



CENTERLINE
REFERENCE MONUMENT SECTION

NOTES
1- UPPER 6" TO BE FORMED
2- CONCRETE TO BE CLASS "C"
3- MONUMENTS TO BE SET BY CONTRACTOR

LIMITED ACCESS

THIS IMPROVEMENT HAS BEEN RECLARED A LIMITED ACCESS HIGHWAY FROM STATION TO STATION BY ACTION OF THE DIRECTOR OF HIGHWAYS AND RECORDED IN VOLUME 44 PAGES OF THE DIRECTOR'S JOURNAL PURSUANT TO LAW.

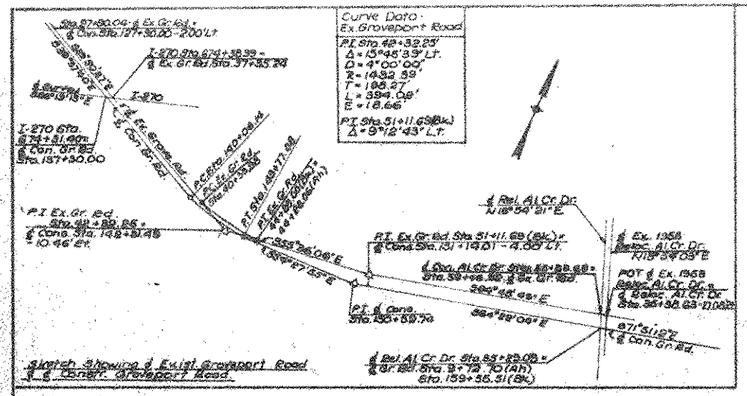
RECEIVED _____ AT _____ M.
RECORDED _____
PLAT BOOK _____ PAGE _____
SIGNED _____ RECORDER - FRANKLIN COUNTY, OHIO
FEE _____
SIGNED _____ DIVISION REPR. DIRECTOR
DATE _____

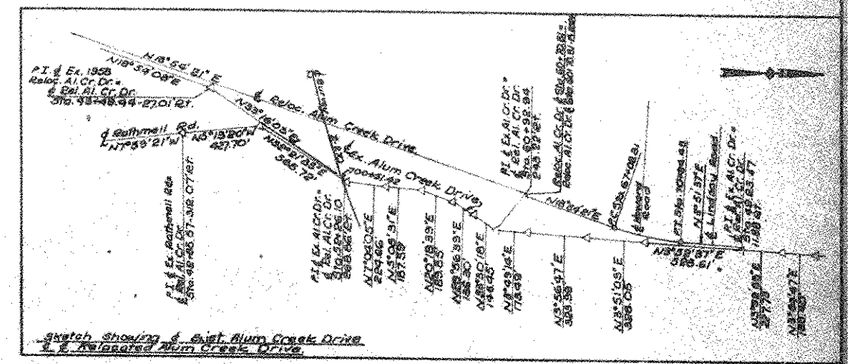
I HEREBY CERTIFY THAT THIS PLAT IS A TRUE DELINEATION OF A SURVEY MADE FOR THE OHIO DEPARTMENT OF HIGHWAYS IN 1961 BY DE LEUW, CATHER & CO.

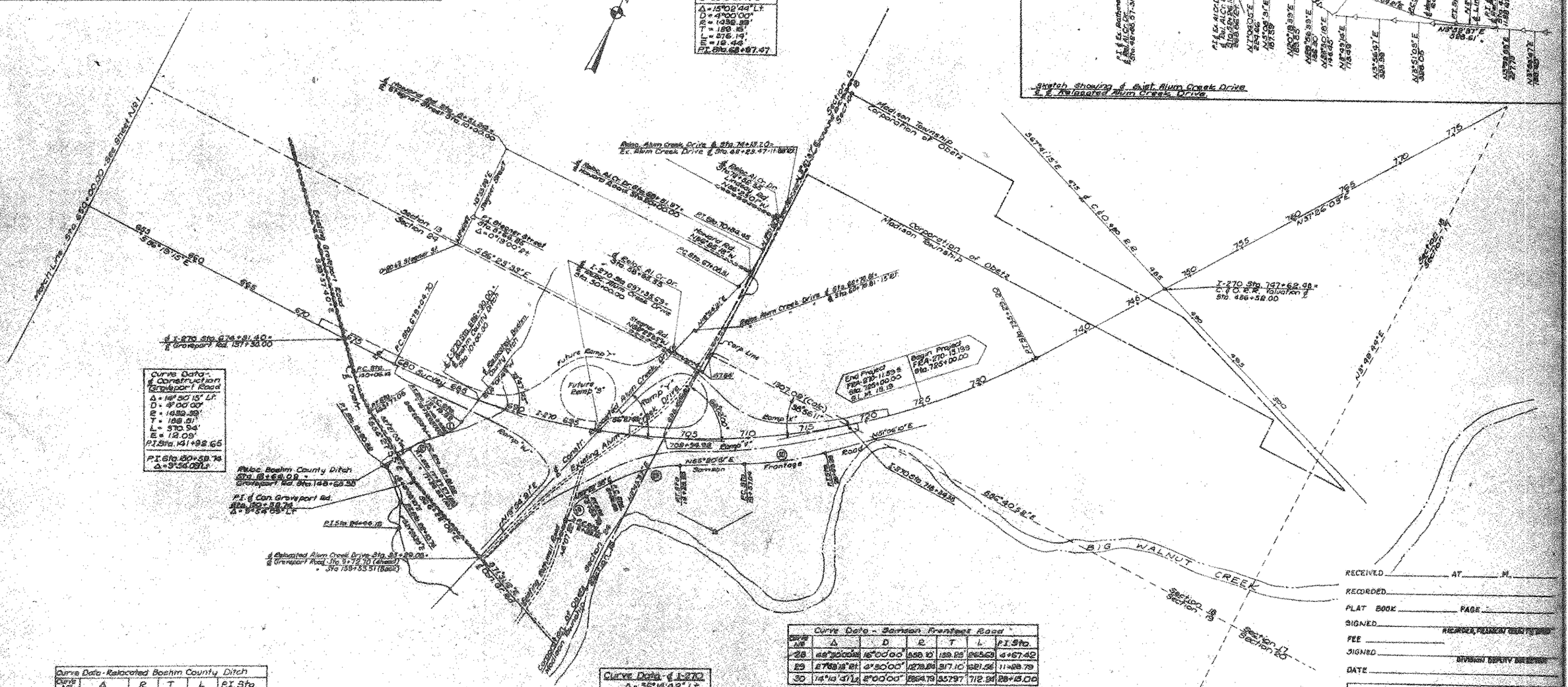
12/14/65
DATE

SIGNATURE
REGISTERED PROFESSIONAL ENGINEER OR SURVEYOR

CENTER LINE PLAT







LIMITED ACCESS

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	HG-270-4(2)102	

FRANKLIN COUNTY
FRA-270-11.59S

CENTER LINE SURVEY PLAT

OHIO DEPARTMENT OF HIGHWAYS

FRA-270-11.59S

FRANKLIN COUNTY OHIO
CORPORATION OF OBETZ, HAMILTON & MADISON TOWNSHIPS

Curve Data -
Ex. Groveport Road
P.I. Sta. 42+32.25'
Δ = 15°45'39" Lt.
D = 4°00'00"
R = 1432.39'
T = 198.27'
L = 394.06'
E = 13.66'
P.I. Sta. 51+11.65(Bk)
Δ = 9°12'43" Lt.

Curve Data -
Relocated Alum Creek Drive
Δ = 15°02'44" Lt.
D = 4°00'00"
R = 1432.39'
T = 189.15'
L = 376.14'
E = 12.44'
P.I. Sta. 68+87.47

Curve Data -
℄ Construction Groveport Road
Δ = 14°50'15" Lt.
D = 4°00'00"
R = 1432.39'
T = 186.51'
L = 370.94'
E = 12.09'
P.I. Sta. 141+92.65
P.I. Sta. 150+59.74
Δ = 9°56'09" Lt.

Curve Data - Relocated Boehm County Ditch

Curve No.	Δ	R	T	L	P.I. Sta.
1	36°22'10" Lt	300'	98.55'	190.45	19+18.37
2	20°56'54" Rt	400'	73.95'	146.25	16+54.97'

Curve Data - ℄ I-270
Δ = 56°14'48" Lt
D = 1°00'00"
R = 5729.58'
T = 3062.20'
L = 5624.80'
E = 766.97'
P.I. Sta. 709+86.90

Curve Data - Sanson Frontage Road

Curve No.	Δ	D	R	T	L	P.I. Sta.
28	42°30'00" Lt	16°00'00"	358.10'	139.25'	265.63	4+67.42
29	27°58'12" Rt.	4°30'00"	1273.24	317.10'	621.56	11+28.79
30	14°10'31" Lt	2°00'00"	2864.79	357.97'	712.94	28+15.00

Limited Access
This Improvement has been declared a Limited Access Highway from Station to Station by action of the Director of Highways and recorded in Volume 44 Page 3 of the Director's Journal pursuant to Law.

CENTER LINE PLAT

RECEIVED ______ AT ______ M. ______
RECORDED ______
PLAT BOOK ______ PAGE ______
SIGNED ______
RECORDER, FRANKLIN COUNTY, OHIO
FEE ______
SIGNED ______
DIVISION DEPUTY DIRECTOR
DATE ______

I hereby certify that this Plat is a true delineation of a Survey made for the Ohio Department of Highways in 1961 by De Leuw, Cather & Brill

12/14/65
Date

Signature
Registered Surveyor
Registered Engineer

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY
FRA-270-11.59S

R/W PLANS

SUMMARY OF ADDITIONAL RIGHT OF WAY REQUIRED

PARCEL NO.	AUDITOR PARCEL NO.	OWNER	DEED RECORD BOOK	DEED RECORD PAGE	DEED AREA Acres	ACTUAL AREA Acres	TO BE ACQUIRED LAND Acres	TO BE ACQUIRED BLDGS.	RESIDUE LEFT Acres	RESIDUE RIGHT Acres	TYPE FUNDS	SHEET NO.	REMARKS
113-WL	169	State of Ohio (T & N DiGioia)	2557	25-30	18.00*	11.62		YES	——	——	I	9, 10	By Industrial Commission of Ohio
113-WD						0.54							* All Land acquired
113-EL						5.84							
113B-WD	1563	Doyle D. & Arlene Root	2576	489	1.00	1.00	0.05	NO	0.88	——	I	10	Exclusive of 0.07 Ac. in P.R.O.
113C-WD	137	Jacquelyn A. & Herbert W. Debus Jr.	1612	291	27.00	27.00	1.82	NO	24.77	——	I	10	Exclusive of 0.41 Ac. in P.R.O.
113C-T							0.14						Build Driveway
113D-WD	375	Mary A. Hoover	2350	74&76	10.00	10.00	0.31	NO	9.50	——	I	10	Exclusive of 0.19 Ac. in P.R.O.
113F-WD	135	Jeanette A. Beggrow	2462	436	30.00	30.00	1.35	NO	28.20	——	I	10	Exclusive of 0.45 Ac. in P.R.O.
114-LA	713	State of Ohio (T. Miller)	2557	35-40	16.69	16.69		NO			I	11	By School Employee's Retirement Board
114A-WL	671	(T. DiGioia)	2557	25-30	1.00	1.00		NO				10, 11	By Industrial Commission of Ohio
114B-LA	676	(H. & V. Kuehn)	2557	35-40	1.00	1.00		YES				10, 11	By School Employee's Retirement Board
114C-LA	1481	(A. & H. Massie)	2557	35-40	4.00	3.22		NO				10, 11	By Industrial Commission of Ohio
114C-WD		(R. & H. Massie)				0.07							By Industrial Commission of Ohio
114C-EL		(A. & H. Massie)				0.71							By Industrial Commission of Ohio
114D-WD		(T. Miller)	2557	35-40	0.61	0.61		NO				10	By School Employee's Retirement Board
114E-WD	37	Visintine & Co.	2623	357	86.42	86.42	0.10	NO	——	86.17	I	10	Exclusive of 0.15 Ac. in P.R.O.
114E-XI							4.58					11, 25	
114H-WD	228	Catherine Stimmel (Trustee) Cert.#	30,964	in 1936	0.12	0.12	0.01	NO	——	0.08	I	10	Exclusive of 0.03 Ac. in P.R.O.
114J-WD	1068	Raymond A. & Grace N Fisher	2332	146	0.82	0.82	0.02	NO	——	0.74	I	10	Exclusive of 0.06 Ac. in P.R.O.
114M-WD	1472	Raymond H. & Marie E Fisher	921	483	14.52	21.35	0.04	NO	——	20.99	I	10	Exclusive of 0.17 Ac. in P.R.O.
114M-WD1			931	475	4.00		0.03						Exclusive of 0.12 Ac. in P.R.O.
			923	354	2.77								
114K-WD		Robert E & Patricia D. Brush	2375	587	2.34	2.34	0.08	NO	——	2.18	I	10	Exclusive of 0.10 Ac. in P.R.O.
114L-WD	1474	Verne C. Zitzke	2167	437	2.89	2.89	0.15	NO	——	2.61	I	10	Exclusive of 0.13 Ac. in P.R.O.
115-WL	25	Marie Butler	1081	193	85.00	85.00	13.55	NO	——	69.60	I	11, 12	Exclusive of 0.19 Ac. in P.R.O.
115-WD							0.93						Exclusive of 0.73 Ac. in P.R.O.
115-X							3.05						
115A-WD	168	Willis R & Hazel L. White	1535	232	1.00	1.00	0.14	NO	0.75	——	I	12, 13	Exclusive of 0.11 Ac. in P.R.O.
115B-WD	178	Hazel M. O'Harra V1021-P652 and	1272	229	36.40	36.40	0.55	NO	35.45	——	I	13	Exclusive of 0.40 Ac. in P.R.O.
116-WD	996	Don Van Gundy	2248	500	1.00	1.00	0.10	NO	——	0.83	I	12, 13	Exclusive of 0.07 Ac. in P.R.O.
116A-WL	762	Ray F & Dorothy K. Vance	2234	544	1.00	1.00	0.64	YES	0.26	——	I	12, 13	Exclusive of 0.05 Ac. in P.R.O.
116A-WD							0.03						Exclusive of 0.02 Ac. in P.R.O.
116A-T							0.02						Remove Building
116B-WL	769	Arlie & Mona L. Thompson	2256	359	1.00	1.00	1.00	NO	——	——	I	12, 13	Total Take
117-WL	727	Bruce M. Kreischer	2447	365	59.45	59.45	11.39	YES	35.43	11.28	I & IG	12, 13, 15	Exclusive of 0.10 Ac. in P.R.O.
117-WD							0.40						Exclusive of 0.20 Ac. in P.R.O.
117-WD1							0.37						Exclusive of 0.28 Ac. in P.R.O.
117-T							0.19						Build Driveway
117-T1							0.10						Temporary Runaround
117B-WD	471	Alex & Josephine Harman	2420	221	5.432	5.00	0.26	NO	——	4.61	I	13	Exclusive of 0.13 Ac. in P.R.O.
117B-T							0.11						Build Driveway
117A-WD	78	Fred Kreutz & Sons Inc.	2415	221	27.91	27.91	0.34	NO	——	27.30	I	13	Exclusive of 0.27 Ac. in P.R.O.
117C-WD	35	M.T. Start	1230	304	31.96	31.96	0.07	NO	——	31.76	I	13	Exclusive of 0.13 Ac. in P.R.O.
117D-WD	78	Mable J. Creager (Life Estate)	1177	585		0.52	0.06	NO	——	0.36	I	13	Exclusive of 0.10 Ac. in P.R.O.
118-WL	402, 403	Paul E. & Dorothy L. Nolter	1362	168	7.08	7.08	2.45	NO	2.56	2.07(LL)	IG	14	
119-WL	409	Nevva Sheets	1486	257	7.00	7.00	2.44	NO	2.50	2.06(LL)	IG	14	
120-WL	176	Edith S May	1580	575							IG	14	
		Afd't Bk. 18-P 53	1675	79	9.05	9.05	2.30	NO	4.97	1.78(LL)			

L.L. Indicates Lands Which are Landlocked

P.R.O. Indicates Present Road Occupied

TOTAL NUMBER OF OWNERS (INCLUDING 9 STATE OWNED PARCELS) 60
TOTAL NUMBER OF OWNERS WITH STRUCTURES 15

NOTE: All L.A. Parcels of the advanced Purchase by the State of Ohio were Purchased as Fee Simple Title.

UTILITIES
Ohio Bell Telephone Company 111 N. Fourth Street, 1st Basement Columbus, Ohio 43215 % Mr. William L. Wolter Facility Engineer
Columbia Gas of Ohio, Inc. 920 W. Goodale Blvd. Columbus, Ohio 43212 % Mr. Dwight L. Poulson
Columbus & Southern Ohio Electric Co 215 N Front Street Columbus, Ohio 43215 % Mr. W.R. Henry
Village of Obetz City Building Obetz, Ohio 43207 % Mayor Ronald E. Perry
Ohio Fuel Gas Company 99 N. Front Street Columbus, Ohio 43215 % Mr. J.F. Nolan

COMPLETION DATE March 23, 1966

Rev.	Date	Description

SUMMARY OF ADDITIONAL RIGHT OF WAY REQUIRED

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-IG-270-4(2)102	

FRANKLIN COUNTY
FRA-270-11.59S

R/W PLANS

SUMMARY OF ADDITIONAL RIGHT OF WAY REQUIRED

PARCEL NO.	AUDITOR PARCEL NO.	OWNER	DEED RECORD BOOK	DEED RECORD PAGE	DEED AREA Acres	ACTUAL AREA Acres	TO BE ACQUIRED LAND Acres	TO BE ACQUIRED BLDGS.	RESIDUE LEFT Acres	RESIDUE RIGHT Acres	TYPE FUNDS	SHEET NO.	REMARKS
121	1489	The Chesapeake & Ohio Railroad Co.	796	382	17.76		0.642	NO			IG	14, 15	27,922 S.F.
121 Aerial													23,498 S.F.
121 A													429 S.F.
121 B													429 S.F.
121 C													429 S.F.
121 D													429 S.F.
121-S													4,422 S.F.
121-SL													16,720 S.F.
*121-SLI													10,252 S.F.
122-LA	719	State of Ohio (Attree R. McClish)	2557	25-30	20.65	20.65		NO			IG	14, 16	By Industrial Commission of Ohio
122B-WL	23	Attree R. McClish	2385	163	197.19*	116.54	1.03	NO	52.55	60.58	IG	14, 16	*20.65 Ac. Conveyed to Pcl. 122-LA
122B-WD							1.00						Exclusive of 0.03 Ac. in P.R.O. Liale Ave
122B-X							0.48						
122B-T							0.25						Fill in Abandoned Ditch
122C-WL							1.35						
122C-T							0.09						Build Over Old Ditch to Fence
122C-X							0.70						
122A-WL	87	The Columbus & Southern Ohio Electric Co.	2449	305	3.08	3.08	0.51	NO	——	0.99	IG	16, 18	
122A-WD							0.54						
122A-WDI							1.02						Exclusive of 0.02 Ac. in P.R.O.
123 Aerial		The Norfolk & Western Railway Co.	384	60	2.34						IG	18, 19	24,196 S.F.
123A			2083	378	2.72			NO					309 S.F.
123B													309 S.F.
123C													309 S.F.
123D													309 S.F.
123E													1,038 S.F.
123F													1,038 S.F.
123-SL													20,020 S.F.
123-SLI													28,495 S.F.
*123S													5,838 S.F.
124-WL	851	Herbert Rees Travis	2307	272	314.705	313.499	41.35	YES	40.04 ⊕	225.84	IG	16, 18-22, 27	Exclusive of 1.05 Ac. P.R.O. in Groveport Rd. & 2.94 Ac. P.R.O. in Alum Creek Dr. & Rathmell Rd.
			2672	68	5.58								Perpetual Easement to Franklin County Comm.
124-WD							0.07						Exclusive of 0.07 Ac. in P.R.O.
124-WDI							0.79						Exclusive of 0.79 Ac. in P.R.O.
124-Z							0.13						Exclusive of 0.24 Ac. in P.R.O.
124-WD3							0.09						Exclusive of 0.16 Ac. in P.R.O
124-X							0.23						
124-XI							1.47						
124-X2							1.48						
124-S							0.06						For Future Sewer Village Obetz
124-SI							0.06						For Future Sewer Village Obetz
124-T							0.64						Temporary Runaround
124-TI							0.41						Temporary Runaround
124-T2							0.04						Remove Shed
124-X3							0.07						⊕ Residue 35.66 Ac. left in N.W. Qr. Sec. 24
124-X4							0.06						4.38 Ac. left in N.E. Qr. Sec. 24
124B-WL	255	Robert L. Collins, Trustee	2555	116	7.00	7.00	1.03	NO	——	4.47	I	21, 22	Exclusive of 0.46 Ac. in P.R.O.
124 B		Obetz Business Mens Ass'n Inc.	2092	267			0.79						Exclusive of 0.26 Ac. in P.R.O.
*121-T		The Chesapeake & Ohio Railroad Co.											1,716 S.F.
121-TI													3,500 S.F.
*123-T		The Norfolk & Western Railway Co.											10,119 S.F.
123-TI													3,690 S.F.

L.L. Indicates Lands Which are Landlocked

P.R.O Indicates present Road Occupied

COMPLETION DATE	March 23, 1966
Rev.	Date	Description

SUMMARY OF ADDITIONAL RIGHT OF WAY REQUIRED

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-IG-270-4(21)02	

FRANKLIN COUNTY
FRA-270-11.59S

R/W PLANS

SUMMARY OF ADDITIONAL RIGHT OF WAY REQUIRED

PARCEL NO.	AUDITOR PARCEL NO.	OWNER	DEED RECORD BOOK	DEED RECORD PAGE	DEED AREA Acres	ACTUAL AREA Acres	TO BE ACQUIRED LAND Acres	TO BE ACQUIRED BLDGS.	RESIDUE LEFT Acres	RESIDUE RIGHT Acres	TYPE FUNDS	SHEET NO.	REMARKS
124D-WD	764	The Humble Oil & Refining Co.	2345	409	1.29	1.29	0.49	NO	0.39	——	I	21	Exclusive of 0.41 Ac. in P.R.O.
124D-T							0.12						Remove Old Foundation & Grade. State Particp. Only
125-X	839	Carl F. Nieman et al	2308	549	31.00	31.00	0.14	NO	31.00	——	I	19	
125B-WD	297	Lawrence Nieman	1362	106	7.38	7.38	0.04	NO	7.20	——	I	20	Exclusive of 0.14 Ac. in P.R.O.
125C-WD	840	Joseph H. & Virginia M Nieman	2417	608	5.21	5.21	0.06	NO	5.03	——	I	20	Exclusive of 0.14 Ac. in P.R.O.
125E-WD	940	Omar A. & Mary A Monson	2139	310	1.02	1.02	0.08	NO	0.84		I	19,20	Exclusive of 0.09 Ac. in P.R.O.
126-LA	234, 239	State of Ohio (Fenner)	2557	49-52	9.62	7.76		YES	——	——	I	19,20,23	By Public Employees Retirement Board
126-EL						186(LL)							By Public Employees Retirement Board
126-X						0.05							By Public Employees Retirement Board
127-LA	245		2557	29-30	5.00	3.54		YES	——	——			By Industrial Commission of Ohio
127-EL		(Worth)				048(LL)							By Industrial Commission of Ohio
128-WL	243	Earl L. & Bertha Fox	1249	568	5.00	4.02	2.56	YES	1.34(LL)	——	I	23	Exclusive of 0.12 Ac. in P.R.O.
129-WL	246	Howard Crosby	2272	385	3.79	2.78	1.00	YES	1.15	——	I	23	Exclusive of 0.30 Ac. in P.R.O.
129							0.24						Exclusive of 0.09 Ac. in P.R.O.
130-WL	21	Claudous & Hazel Baker	2225	613	1.25	1.25	1.25	YES	——	——	I	23	Total Take Also Owner of Parcel 131-WL
													Inclusive of 0.52 Ac. in P.R.O.
130A-WL	23	Patsy J. Alloy	1283	119	2.00	2.00	1.02	YES	0.85	——	I	23	Exclusive of 0.13 Ac. in P.R.O.
130A-T							0.03						Remove Shed
130F-WL	15, 26	William H. & Hazel Burton	1103	435	13.14	13.14	1.95	YES	10.11	——	I	23,27	Exclusive of 0.50 Ac. in P.R.O.
130F			1132	648			0.58						Stegner Street Pcl. (1.26 Ac. Residue Left, 8.85 Ac. Rt.)
130F-X			1768	39			0.07						
130P	33	Silas S. & Ruth N. Petty	1275	421		3.92	0.38	NO	1.28	2.26	I	27	Stegner Street Pcl.
130P-X							0.02						
130B	70	Edith M. Dame	2534	632	0.60	0.60	0.22	NO	0.38	——	I	27	
130C	187	Belva Large	2000	294	0.60	0.60	0.02	NO		0.58	I	27	
130G-WL	61	Janice A. McKee	2563	553	0.26	0.26	0.26	YES	——	——	I	23	Total Take
130H-WL	159	Calvin & Lucille Workman	2086	113	0.57	0.57	0.57	YES	——	——	I	23	Total Take
	194		1868	536									
130J-WD	178	Bonnie & Billie Fox	1979	491,493	0.63	0.63	0.13	NO	0.43	——	I	23,24	Exclusive of 0.07 Ac. in P.R.O.
130K-WD	239	Leonard C & Rose F. Safreed	2167	270	1.00	1.00	0.15	NO	0.70	——	I	24	Exclusive of 0.15 Ac. in P.R.O.
130L-WD	67	Harriet M. Mills	2312	335	0.57	0.57	0.06	NO	0.42	——	I	24	Exclusive of 0.09 Ac. in P.R.O.
130M-T	160	Orville & Charlotte Dunn	1878	182	1.08	1.08	0.04	NO	1.04	——	I	24	
131-WL	341	Claudous H. & Hazel F. Baker	1511	560	52.99	52.99	19.31	YES	2.96	23.01	I	22, 26	Exclusive of 2.80 Ac. in P.R.O. Also Owner of Parcel 130-WL
131							4.91						Samson Frontage Rd. 1.20 Ac. in Sec. 24, 3.71 Ac. in Sec. 19
131-T							0.11						Remove Shed
131-T1							0.06						Build Field Drive
132-WL	196	Susan Sampson (Life Est.),	2192	64	204.17	204.17	18.83	NO	72.84	106.92	I & IG	23,26,27	
132-WD		Ralph B. Samson & Geraldine Fenollosa					0.71						Exclusive of 0.74 Ac. in P.R.O. (Alum Crk. Dr. Pcl.)
132-I							4.13						Samson Frontage Road
131D	844	Mary E. Clickinger	1042	558	63.75		0.15	NO	——	63.60	I	26	31.875 Ac. W½ Prop. Acreage out of Aud. Pcl.# 844
	75		1605	559									31.875 Ac. E½ Prop.

L.L. Indicates Lands Which are Landlocked

P.R.O. Indicates Present Road Occupied

COMPLETION DATE March 23, 1966.

Rev.	Date	Description

SUMMARY OF ADDITIONAL RIGHT OF WAY REQUIRED

PROPERTY MAP

Graphic Scale in Feet 200 100 0 200 400

LIMITED ACCESS

FED. AID DIVISION	STATE	PROJECT	
2	OHIO	I-IG-270-4(2)102	

FRANKLIN COUNTY
FRA-270-11.59 S

310/332

6/28

OBETZ ROAD

Sec. 16 / Sec. 21 — Sec. 15 / Sec. 22

E 1866000

N684000

N688000

N684.000

N688.000

N681.000

N684.000

N688.000

N681.000

Jack Zubovich

ELSIE MAE HUNT

CHARLES ZITZKE PARTITION

County Rte. 46 — S.R. 317 Alkire Rd. — Rte. 2

C.L.P. & Southern R. Rte. Easement

End Work Sta. 32+25

Verne C. Zitzke (114L WD)

M.A. Hoover (113D WD)

R.E. & P.D. Bruhl (114R WD)

Lot 4 — Lot 5 — Lot 6 — Lot 3

WTVN-TV Transmitter

WTVN INC.

Hazel O'Harra

BEGIN PROJECT FRA-270-11.395 STA. 535+00

Begin I Section

Begin Project FRA-270-10.715 Sta. 459+05

Begin R/W Acquisition Sta. 386+03.67 Rt. M. 10.36

M.E. & E.H. Fisher (114N WD)

J.A. & H.W. Debus, Jr. (118C WD)

(114H WD) Catherine Grinsel (Trustee)

Lothian Cemetery

STATE OF OHIO (T.B.W. DIVISION, IND. COMM. OF OHIO)

STATE OF OHIO (T.B.W. DIVISION, IND. COMM. OF OHIO)

STATE OF OHIO (T.B.W. DIVISION, IND. COMM. OF OHIO)

JOHN HOOVER — GEORGE E. HOOVER

LA — Lot 3 — LA

535 540 545 550 555 560 565 570 575 580 585

Survey IN 270 570 (190')

S 88° 19' 15" E 580

(118 WL)

(118A EL)

(118C WD1) (118C EL)

(114C L&)

STATE OF OHIO (T. MILLER - S.E.R.O.)

STATE OF OHIO (T.B.W. MAGGIE, IND. COMM. OF OHIO)

(114D WD) STATE OF OHIO (T. MILLER - SEAB.)

(114E -X) VISINTINE & COMPANY

(115 -X) MARIE BUTLER

(115 WL)

PROPOSED STRUCTURE NO. FRA-270-1124.9

STATE OF OHIO (T.B.W. DIVISION) (IND. COMM. OF OHIO)

Sandridge Ditch

J.A. Beggrow

(113F WD)

(114E WD)

Begin Work 8+00

VISINTINE & COMPANY

(118B WD)

S.O.R.R. ROOT

ABRAHAM STIMMELL PARTITION
Court of Common Pleas Record 39, Pages 239 and 240
Lot 2 — Lot 3

Cora E. Reiselt

Dover

ALLEN S. & ELIZABETH HACKOR

R.L. & C.E. MILLER

R.L. KLINGENSMITH & JEANETTE B. KLINGENSMITH

Lot 3

JAMES LINDSEY PARTITION
Chancery Record Vol. 3 Pages 510-514

PARCELS to be REC'd TRANSFERRED

COMPLETION DATE March 29, 1966 Scale 1"=200'

Rev.	Date	Description

Project Limits Sta. 385+00 to Sta. 590+00

PROPERTY MAP

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-IG-270-4(2)102	

311 / 332

1 / 28

FRANKLIN COUNTY
FRA-270-11.59S

Graphic Scale in Feet (200 100 0 200 400)

LIMITED ACCESS

E 1868.000 E 1869.000 E 1870.000 E 1871.000 E 1872.000 E 1873.000

N 684.000 N 683.000 N 682.000 N 681.000 N 680.000

HAMILTON TWP. | CORP. OF OBETZ | VILLAGE OF OBETZ

OBETZ ROAD — Sec. 15 / Sec. 22 — Sec. 15 / Sec. 23

LISLE AVE.

Columbus Terrace

End Work Sta. 59+00

End Work Sta. 40+00

E.F. Roth

C & O. R.R.

C & O. E. Co.

B.M. Kreischer

M. J. Creiger Life Estate

H.M. O'Harra

B.M. KREISHER

B.F. & O.K. VANCE

Suspend 1 Section | Begin 16 Section 640+00

George & Sarah Arbogast

George & Carrie Arbogast

Roy T. & Hilda O. Lewis

Pond

B.M. Kreischer

P. & D. Notter

N. Sheets

Edith S. May

L.L. 2.07 Ac.

L.L. 2.06 Ac.

L.L. 1.78 Ac.

Marie Butler

Structure No. FRA-270-12279

A. & J. Harmon

Fred Kreutz & Son, Inc.

Begin Work Sta. 38+25

M.T. Start

C & O R.R.

CHESAPEAKE & OHIO RAILROAD

Columbus & Southern Ohio Electric Company

I Funds

Structure No. FRA-270-12279 Lt & Rt

Attree R. McClish

Attree & McClish

I Funds

Structure No. FRA-270-12795 Lt & Rt

State of Ohio (Attree & McClish, Ind. Comm. Of Ohio)

Columbus & Southern Ohio Electric Co.

Begin Work Sta. 21+00

C. & J. Williams

N. & W. R.R. Co.

H.R. Travis

Match Line Sta. 635+00 This Sheet

INSERT

EX. OBETZ - RIPLEY ROAD

COMPLETION DATE March 23, 1966 Scale 1"=200'

Rev.	Date	Description
1	4-28-66	Added I Funds to 122A-WD1 & 123B-W8

PROPERTY MAP Sta. 550+00 to Sta. 685+00

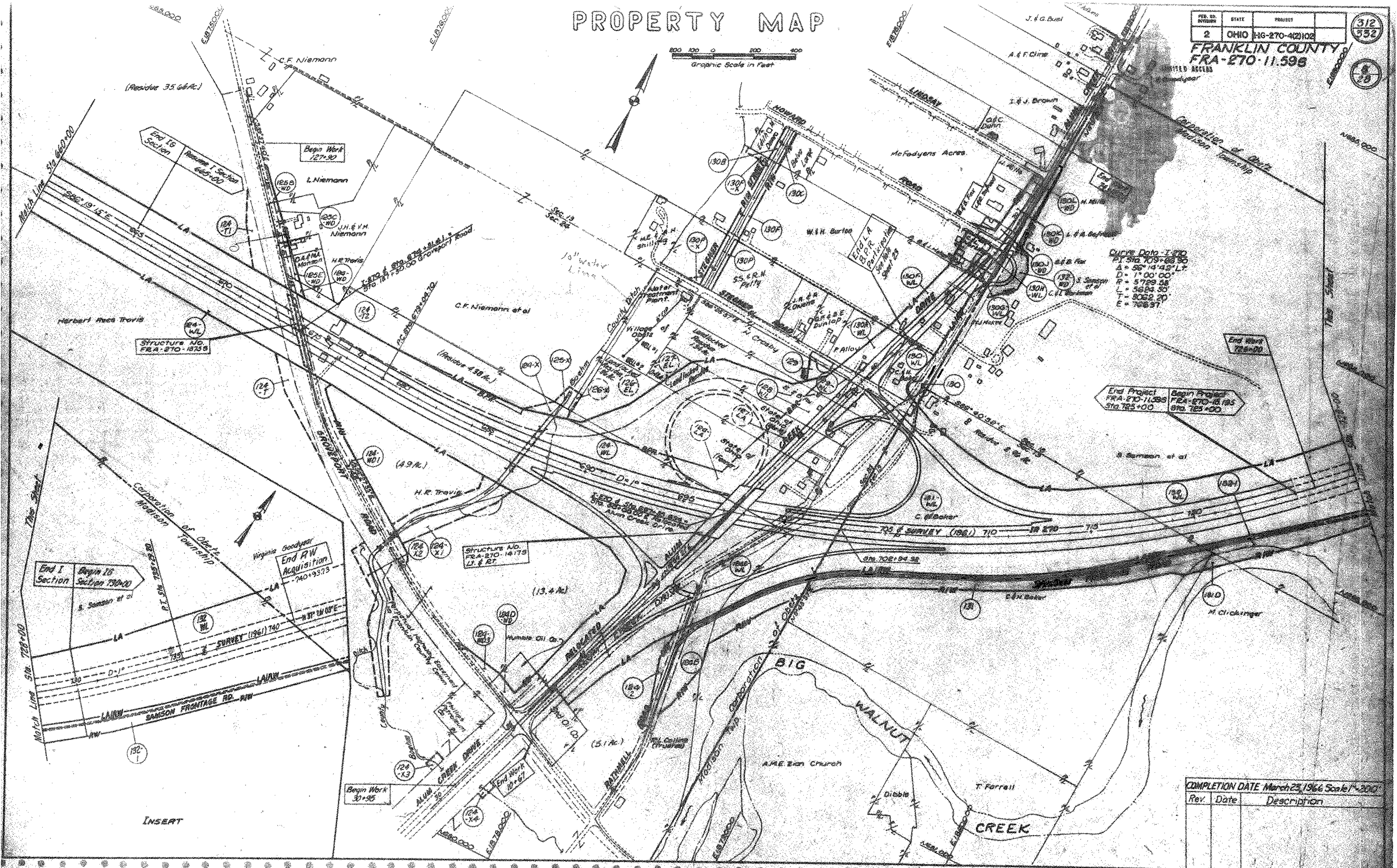
PROPERTY MAP

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	IG-270-4(2)102	

312/332

FRANKLIN COUNTY
FRA-270-11.596

8/28



COMPLETION DATE March 23, 1966 Scale 1"=200'

Rev.	Date	Description

Property Map Sta. 635+00 to Sta. 725+00

FED. HWY. DIVISION	STATE	PROJECT	
2	OHIO		

313/332

9/28

FRANKLIN COUNTY
FRA-270-11.59
FRA-270-11.59 S

LIMITED ACCESS

BEGIN PROJECT
FRA-270-10.71S
STA 459+05

HAMILTON TOWNSHIP
T4N R22W
SECTION 21

JACQUELYN ARDELL DEBUS &
HERBERT WILLIAM DEBUS, JR.

STA 526+05.78
150.18'

S 84° 39' 09" E
453.00'

EAST TYPE "D" R/W FENCE

S 4° 19' 15" W

111 WL

STATE OF OHIO

℄ LA — S 86° 19' 11" E — 1669.27'

TONI & NORMA DIGIOIA (INDUSTRIAL COMMISSION OF OHIO)

STATE OF OHIO 113 WL

℄ Construction Limits

BEGIN SHEET STA. 515+00

150.18'

STA. 526+03.67

WEST BOUND LANES I-270

℄ SURVEY ON ℄ 270

527+00 528+00 529+00 530+00 531+00 532+00 533+00 534+00

S 86° 19' 15" E

MATCH LINE STA 535+00

LGR RT 370.20'

EAST BOUND LANES I-270

Construction Limit

S 4° 19' 15" W

EXIST TYPE "D" R/W FENCE

709.32'

N 87° 00' 15" W

N86°57'31"W — LA — 898.64'

STA. 529+01.42
160'

END R/W AQUISITION
STA. 526+03.67
FRA-200-9.46

BEGIN R/W ACQUISITION
STA 526+03.67
SLM 10.94

I-IG-270-4(2) 102

TRUE R/W ALONG FENCE

STATE OF OHIO

113 EL

535+00
150.00 Rt

HAMILTON TOWNSHIP
T4N R22W
SECTION 21

I-IG-270-4(2)102

END PART 1	BEGIN PART 2
FRA-270-10.71S	FRA-270-11.59S
	STA 535+00
	SLM 11.59S

Swale

HAMILTON TOWNSHIP
T4N R22W
SECTION 21

JACQUELYN ARDELL DEBUS &
HERBERT WILLIAM DEBUS, JR.

113C WD

541+16.05
150.18' Lt

℄ LA Min. 50.0' ± R/W
℄ Existing R/W
℄ Proposed R/W
℄ Construction Limits
Type 2 Crossing

21+50.14
109.99' Lt

2' Typical

Swale

TREE R/W ALONG FENCE

S 86° 19' 11" E — 1669.27' — LA — LA

Type 2 Crossing

Begin R/W Fence
535+00
Part 2

℄ Construction Limit

PROPOSED STRUCTURE
FRA-270-11.24S

See Sheet 10 for R/W on Parsons Avenue

MATCH LINE STA. 535+00

WEST BOUND LANES

TONI & NORMA DIGIOIA (INDUSTRIAL COMMISSION OF OHIO)

STATE OF OHIO 113 WL

℄ SURVEY ON ℄ I-270

535+00 536+00 537+00 538+00 539+00 540+00

S 86° 19' 15" E

EAST BOUND LANES

STA 540+20 ℄ I-270
STA 541+00 PROJ. PARSONS AVE

541+00

I-270

℄ RELOCATED

PARSONS

FRA-270-1.66
33" Culvert 536+50

Type 42 R/W Fence

Construction Limit

774.95'
639.95'

N86°19'15"W — LA

Type 2 Crossing

2' Typical

TONI & NORMA DIGIOIA (INDUSTRIAL COMMISSION OF OHIO)

STATE OF OHIO

113 EL

SMALL EVERGREENS & PINE TREES

SMALL EVERGREEN SHRUBS

HAMILTON TOWNSHIP
T4N R22W
SECTION 21

Begin R/W Fence
Part 2

536+00
150.00 Rt

541+38.25
150.00 Rt

18+49.96
80.00' Lt

114M WD

MARIE E. FISHER &
RAYMOND W. FISHER

CATHERINE STIMMEL (TRUSTEE)

114H WA

ELEVATED IRRIGATION PIPES

SMALL TREES

LOT 1

10' GRAVEL AVE. & DRIVE

Type 2 Crossing

542+75.05
150.55'

NURSERY SEEDLINGS SMALL PINES

STATE OF OHIO 114A WL
(TONI & NORMA DIGIOIA (INDUSTRIAL COMMISSION OF OHIO))

I-270

S 86° 19' 50" E

10' GRAVEL DRIVE

544.00

S 86° 19' 15" E

(HERMAN & VIRGINIA KUEHN)

STATE OF OHIO 114B LA

S 86° 16' 48" E

R

OVERHEAD ELEC. WIRE

GRAVEL DRIVE

(RALPH AND HELEN MASSIE) (INDUSTRIAL COMMISSION OF OHIO)

114C LA

STATE OF OHIO

114G WD

114G EL

(RALPH AND HELEN MASSIE) (INDUSTRIAL COMMISSION OF OHIO)

S 86° 19' 18" E

18+05.35
70'

VISINTINE & COMPANY

T. MILLER ESTS.

STATE OF OHIO (THEODORE T. MILLER DECEASED UNDERED T. SMITH EXECUTOR)

114D WD

113 WD

HAMILTON TOWNSHIP
T4N R22W
SECTION 21

Note All LA parcels were purchased as fee simple title.

All Deeds, Easements, Stationing and Offsets are Described from the ℄ of Construction.

Tie Between ℄ Construction and Existing ℄ Shown on the Center Line Survey Plat.

I FUNDS

Area Relinquished to Franklin County
J.E. Dated May 5, 1971, Vol. 56, Pages 996

COMPLETION DATE · March 23, 1966. SCALE 1"=50'

REV.	DATE	DESCRIPTION
	5/23/66	Revised 114HWD to 114HWA
	5-2-72	Added Areas Relinquished

R/W PLANS STA. 505+00 - 570 to STA 543+00

FED. AID DIVISION	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY
FRA-270-11.59 S

313
332

9
28

LIMITED ACCESS

BEGIN PROJECT
FRA-270-10.71 S
STA. 459+05

HAMILTON TOWNSHIP
T4N R22W
SECTION 21

JACQUELYN ARDELL DEBUS &
HERBERT WILLIAM DEBUS, JR.

STA. 529+05.78
150.10'

S 84°-39'-09"E
469.08'

EXIST. TYPE "D" R/W FENCE

111 WL

STATE OF OHIO

S 4°-19'-01"W

150.10'

TOM & NORMA REGION
INDUSTRIAL COMMISSION OF OHIO

STATE OF OHIO 113 WL

℄ Construction Limits

STA. 529+03.67

WEST BOUND LANES I-270

℄ SURVEY 1961 I-270

529+00 | 527+00 | 528+00 | 529+00 | 530+00 | 531+00 | 532+00 | 533+00 | 534+00

S 86°-19'-15"E

EAST BOUND LANES I-270

BEGIN SHEET STA. 525+00

MATCH LINE STA. 535+00

130.67'

30.20'

S 3°-18'-05"W

Construction Limits

EXIST. TYPE "D" R/W FENCE

789.32'

N 21°-58'-15"W

N86°57'30"W LA 838.64'

STA. 529+81.42
10.0'

TREE ROW ALONG FENCE

END R/W ACQUISITION
STA. 529+03.67
FRA-270-9.46

BEGIN R/W ACQUISITION
STA. 525+03.67
SLM 10.94

I-IG-240-4(2)102

STATE OF OHIO
118 EL

535+00
150.00' Rt.

HAMILTON TOWNSHIP
T4N R22W
SECTION 21

I-IG-270-4(2)102

END PART 1
FRA-270-10.71S

BEGIN PART 2
FRA-270-11.59S
STA 535+00
SLM 11.59S

Swale

JACQUELYN ARDELL DEBUS &
HERBERT WILLIAM DEBUS, JR. 119C WD

℄ LA line consistent from 526+00 Lt. to 545+00 Lt.

Type 2 Crossing

2' Typical

Swale

TREE ROW ALONG FENCE

Begin R/W Fence Part 2

Type 2 Crossing

Construction Limit

1668.27'

SUPPLIED STRUCTURE
FRA-270-11.245

See Sheet 10 for R/W on Parsons Avenue.

TOM & NORMA DEGIDIA
INDUSTRIAL COMMISSION OF OHIO

STATE OF OHIO 113 WL

WEST BOUND LANES

℄ SURVEY 1961 I-270

536+00 | 537+00 | 538+00 | 539+00 | 540+00 | 541+00

S 86°-19'-15"E

EAST BOUND LANES

MATCH LINE STA. 535+00

STA 542+78.87 ℄ I-270
STA 13+00 BELOW PARSONS AVE.

I-270

FRA-270-11.66
33" Culvert 538+50

Type 47 R/W Fence

Begin R/W Fence Part 2

Construction Limit

774.95'

N86°19'15"W

Type 2 Crossing

2' Typical

535+00
150.00' Rt.

TOM & NORMA DEGIDIA
INDUSTRIAL COMMISSION OF OHIO

STATE OF OHIO 113 EL

SMALL EVERGREENS & PINE TREES

SMALL EVERGREEN BUSHES

HAMILTON TOWNSHIP
T4N R22W
SECTION 21

541+99.95
180.00 Rt.

18°-48'-00"
80.02' Lt.

114G WD

MARIE E. FISHER &
RAYMOND N. FISHER

CATHERINE STIMMEL (TRUSTEE)

114M WD

ELEVATED IRRIGATION PIPES

Type 2 Crossing

542+75.05
150.55'

GRAVEL DRIVE

SMALL EVERGREENS SMALL PINES

STATE OF OHIO/114A-WL
TOM & NORMA DEGIDIA
INDUSTRIAL COMMISSION OF OHIO
I-270

544.00

S 86°-19'-15"E

NORMA & VIRGINIA DEGIDIA
L.E.E.E.

STATE OF OHIO 114B-LA

S 86°-16'-40"E

114C-LA

(RALPH AND HELEN MASSIE)
INDUSTRIAL COMMISSION OF OHIO

STATE OF OHIO

18°-52'-40" Lt.

114C WD

STATE OF OHIO 114C-EL

S 86°-19'-15"E

(RALPH AND HELEN MASSIE)
INDUSTRIAL COMMISSION OF OHIO

18°-52'-35"
60.18'

STATE OF OHIO
SEPTIC TANK
COURTESY

114D WD

VISINTINE & COMPANY

(T. MILLER)
L.E.E.E.

STATE OF OHIO (THEODORE T. MILLER DECEASED)

HAMILTON TOWNSHIP
T4N R22W
SECTION 22

Note: All LA parcels were purchased as fee simple title.

All Deeds, Easements, Stationing and Offsets are Described from the ℄ of Construction.

Tie Between ℄ Construction and Existing ℄ Shown on the Center Line Survey Plat.

I FUNDS

COMPLETION DATE March 23, 1966		SCALE 1"=50'
REV	DATE	DESCRIPTION

R/W PLANS STA. 525+00 TO STA. 543+00

FED. HWY. DIVISION	STATE	PROJECT	
2	OHIO		

131
131

FRANKLIN COUNTY
FRA-270-10.71 S

LIMITED ACCESS

HAMILTON TOWNSHIP
T4N R22W
SECTION 21

EXISTING END POST ASSEMBLY
148.16' LT. STA 526+05.78

INTERMEDIATE ANCHOR POST ASSEMBLY
144' LT STA 528+91.00

END POST ASSEMBLY
148.17' LT STA 535+00.00

EDWIN W. & SYLVIA M. EASTERDAY

EXIST. L.A R/W
S 84° 39' 05" E

150.16'
STA. 526+05.78

EXIST. TYPE 47 R/W FENCE
403.00

150.16'

JACQUELYN & HERBERT W. DEBUS, JR.

PROP. L.A. R/W

1669.77'

S 86° 19' 17" E

PROP TYPE 47 R/W FENCE

CONSTRUCTION LIMITS

STATE OF OHIO
(TONI & NORMA DI SIDIA)
(INDUSTRIAL COMMISSION OF OHIO)

113 WL

END PART I
STA. 535+00.00
FRA-270-10.71 S

BEGIN SHEET STA. 525+00

STA. 526+05.67

527 528 529 530 & SURVEY I-270 531 532 S 86° 19' 15" E 533 534

MATCH LINE STA. 535+00

STATE OF OHIO

111 WL

160.02'

S 14° 09' 05" W

END WORK
STA. 535+08

CONSTRUCTION LIMITS

END "A" TAPER
STA 529+30.00

EXIST. TYPE 47 R/W FENCE

N 86° 57' 30" W

898.64'

PROP TYPE 47 R/W FENCE

N 89° 10' 15" W
1099.1'

EXIST. L.A R/W

160'
STA 526+01.42

PROP L.A R/W

150'
STA 535+00.00

STATE OF OHIO

END R/W AQUISITION
STA. 526+05.67
FRA 100-9.46

BEGIN R/W AQUISITION
STA. 526+05.67
S.L.M. 10.94
FRA 270-11.595
I 270-9-(2)

EXIST. END POST ASSEMBLY
158' RT. STA. 526+01.42

INTERMEDIATE ANCHOR POST ASSEMBLY
152' RT STA 530+50.00

END POST ASSEMBLY
148' RT. STA. 535+00.00

HAMILTON TOWNSHIP
T4N R22W
SECTION 21

JACQUELYN ARDELL DEBUS & HERBERT WILLIAM DEBUS JR.

541+18.05
150.18' LT.

541+50.14
109.99' LT.

PROP. L.A R/W

SWALE

TREE LINE ALONG FENCE

S 86° 19' 17" E PROP TYPE 47 FENCE

CONSTRUCTION LIMITS

PROPOSED STRUCTURE
FRA-270-11.74 S

BEGIN PART II
STA. 535+00.00
FRA-270-11.595

STATE OF OHIO
(TONI & NORMA DI SIDIA)
(INDUSTRIAL COMMISSION OF OHIO)

119 WL

STA. 541+20.00 & I-270
STA. 20+00.00 RELOC. PARSONS RD

MATCH LINE STA. 535+00

& SURVEY 1961 I-270

536 537 538 539 540 541

S 86° 19' 15" E

FRA-270-1166
35" CULVERT-STA. 538+30

STA. 541+35.00 & I-270
STA. 20+00.00 EXIST. PARSONS AVE.

CONSTRUCTION LIMITS

PROP TYPE 47 FENCE

N 86° 19' 15" W

774.95'

18+51.60' LT.

541+39.95' 150' RT.

18+45.99' 80.01' LT.

STA. 535+00.00
150'

SMALL EVERGREEN & PINE TREES

PROP. L.A R/W

STATE OF OHIO
(TONI & NORMA DI SIDIA)
(INDUSTRIAL COMMISSION OF OHIO)

SMALL EVERGREEN BUSHES

PROP R/W

EXIST. R/W LINE

PARSONS AVE.

RELOCATED

STATE OF OHIO
(TONI & NORMA DI SIDIA)
(INDUSTRIAL COMMISSION OF OHIO)

MARIE E. FISHER & RAYMOND H. FISHER
CATHERINE STIMMEL (TRUSTEE)

HAMILTON TOWNSHIP
T4N R22W
SECTION 22

BRICKYARD CEMETERY

S 86° 19' 19" E

LOT 1

LOT 3

NURSERY GREENING

S 86° 19' 30" E

504

HERMAN & VIRGINIA KOENN
(S.E.R.R.)

STATE OF OHIO
UNDERGROUND FUEL TANK

S 86° 19' 48" E

STATE OF OHIO
(RALPH & HELEN MASSIE)
(INDUSTRIAL COMMISSION OF OHIO)

END SHEET STA. 545+00

STA. 18+05.55

S 86° 19' 18" E

18+45.99
70.01' RT

VISINTINE & COMPANY
(THEODORE T. MILLER-DECEASED)
(MILDRED L. SMITH-EXECUTRIX)

STATE OF OHIO
(T.& N. DI SIDIA)
(I.C. OF OHIO)

COMPLETION DATE		SCALE: 1" = 50'
REV.	DATE	DESCRIPTION
	5-2-72	For Area Relinquished See FRA-270-11.595 Sht. #9 of 28 Shts.

FED RD DIVISION	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY FRA-270-11.53

314/332

10/28

RELOCATED PARSONS AVENUE CURVE DATA			
CURVE NO. 1	CURVE NO. 2	CURVE NO. 3	CURVE NO. 4
P.I. STA 10+51.78	P.I. STA 14+66.63	P.I. STA 25+36.93	P.I. STA 29+97.56
Δ = 7° 18' 34" Lt	Δ = 7° 27' 45" Lt	Δ = 6° 44' 40"	Δ = 6° 25' 42"
D = 4° 33' 39"	D = 4° 31' 23"	D = 4° 05' 15"	D = 4° 00' 11"
R = 1432.39'	R = 1432.39'	R = 1452.39'	R = 1432.69'
L = 182.73'	L = 186.56'	L = 168.65'	L = 160.31'
T = 91.49'	T = 93.41'	T = 84.42'	T = 80.22'
E = 2.92'	E = 3.04'	E = 2.49'	E = 2.26'

HAMILTON TOWNSHIP
T4N R22W
SECTION 21

ABRAHAM STIMMELL PARTITION

JEANETTE A. BEGGROW

DAYLE D. ROOF & ALENE ROOF

CORA E. REISELT

DOWER

BEGIN WORK STA. 7+75

P.C. STA 7+96.99

Field Drive 80'±

Note
Subdivision Platted but not Recorded with Street Access @ +73

Construction Limit

EXIST. R/W LINE

THE COLUMBUS & SOUTHERN OHIO ELECTRIC CO 35' EASEMENT

STEEL POWER TOWER NO 66

SECTION 21 / SECTION 22

EXISTING PARSONS AVENUE

& RELOCATED PARSONS AVE.

ROBERT L. & CLARA E. MILLER

HELEN E. & ELIZABETH KACSOR

0.10 Acres
PRO 0.5 Acres
Total 5.26 Acres

JAMES LINDSEY PARTITION
(CHANCERY RECORD VOL. 3 PAGE 510-514)
HAMILTON TOWNSHIP
T4N R22W
SECTION 22

VISINTINE & COMPANY

STATE OF OHIO (END COMM. OF OHIO)

STATE OF OHIO (T&N DI GIOIA) (E.C. OF OHIO)

PROPOSED STRUCTURE FRA-270-11.245

AVENUE

STATE OF OHIO

(R.G.H. MASSIE) (E.C. OF OHIO)

U.S.R.V. KUEHN S.E.R.B.

HAMILTON TOWNSHIP
T4N R22W
SECTION 21

JACQUELYN ARDELL DEROS & HERBERT WILLIAM DEROS JR.

STATE OF OHIO

PROPOSED STRUCTURE FRA-270-11.245

Relocated Parsons Ave. & Const. Sta. 21+50.18

& RELOCATED PARSONS AVE.

EXISTING PARSONS

EXIST. R/W LINE

THE COLUMBUS & SOUTHERN OHIO ELECTRIC CO 35' EASEMENT

& Temp. Pav't.

WATKINS CEMETERY

NURSERY SEEDINGS SMALL PINES

STATE OF OHIO

CATHERINE STIMMEL (TRUSTEE)

ELEVATED IRRIGATION PIPES

MARIE E. FISHER & RAYMOND H. FISHER

0.04 Acres
PRO 0.17 Acres
Total 0.21 Acres

RAYMOND A. FISHER & GRACE N. FISHER

MARIE E. FISHER & RAYMOND H. FISHER

0.02 Acres
PRO 0.00 Acres
Total 0.08 Acres

HAMILTON TOWNSHIP
T4N R22W
SECTION 22

MARY A. HOOVER

0.31 Acres
PRO 0.19 Acres
Total 0.50 Acres

JACK ZUBOVICH

END WORK STA 33+00

ROBERT E. BRUSH & PATRICIA D. BRUSH

0.08 Acres
PRO 0.04 Acres
Total 0.12 Acres

VERNE C. ZITTKE

0.5 Acres
PRO 0.19 Acres
Total 0.28 Acres

HAMILTON TOWNSHIP
T4N R22W
SECTION 16

Area Relinquished to Franklin County J.E. Dated May 5, 1972, Vol. 56, Pages 996

Note:
All Deeds, Easements, Stationing, and Offsets are Described from the ℄ of Construction.
Tie Between ℄ Construction and Existing ℄ Shown on the Center Line Survey Plat.

ELSIE MAE HUNT

HAMILTON TOWNSHIP
T4N R22W
SECTION 15

I Funds

COMPLETION DATE	March 23, 1966	SCALE: 1" = 50'
REV.	DATE	DESCRIPTION
1	5/23/66	Revised 114HWD to 114HWA
2	6-13-66	Corrected Coor. Points on ℄ between Lots 2 & 3, Parcel 114L-WD Added 113CWA
	8-30-66	
	5-2-72	Added Areas Relinquished

R/W PLANS - PARSONS AVE. - STA. 6+25 TO STA. 35+00

RELOCATED PARSONS AVENUE CURVE DATA			
CURVE NO. 1	CURVE NO. 2	CURVE NO. 3	CURVE NO. 4
P.T. STA. 10+51.78	P.I. STA. 14+66.60	P.I. STA. 15+36.93	P.I. STA. 19+97.36
Δ = 7°-18'-34" Lt.	Δ = 1°-27'-45" Lt.	Δ = 6°-44'-48"	Δ = 6°-25'-42"
D = 4°-00'-00"	D = 4°-01'-10"	D = 4°-00'-56"	D = 4°-00'-00"
R = 1432.39'	R = 1432.39'	R = 1432.39'	R = 1432.39'
L = 182.73	L = 196.56'	L = 168.65'	L = 160.71'
T = 91.49	T = 98.41	T = 84.42'	T = 80.44'
E = 7.92	E = 9.06	E = 7.49'	E = 7.29'

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY
FRA-270-11.58 S
scale - 1" = 50'

LIMITED ACCESS

JOHN HOOVER

GEORGE J. HOOVER

MARIE E. FISHER & RAYMOND H. FISHER

HAMILTON TOWNSHIP T4N R22W SECTION 22

Swale

R/LA line coincident from 545+00 Lt to 574+84 Lt

ELEVATED IRRIGATION PIPES

TREE ROW ALONG FENCE

Construction Limit

FRA-270-11.93
54" Culvert 553+00

6" Tile Outlet Pipe to Ditch

Type B Crossing

552+85.00 104.00' Lt

552+92.50 104.00' Lt

553+14.00 104.00' Lt

553+22.5 104.00' Lt

553+08.50 104.00' Lt

S 86°-19'-05" E 1155.13'

STATE OF OHIO (T. & M. DI GIOIA) (I.C. OF OHIO) 114A -WL

STATE OF OHIO (D. & V. KUEHN ET UX) HOOSIER - SMALL EVERGREEN NURSERY 114B -LA

STATE OF OHIO (R & H MASSIE) (I.C. of OHIO) 114C -LA

STATE OF OHIO (T. MILLER - SCRD) 114 -LA

WEST BOUND LANES I-270

EAST BOUND LANES I-270

S 86° 15' 30" E

S 86° 16' 40" E

S 86° 19' 18" E

S 86°-19'-15" E

N 86°-19'-15" W

N 82°-57'-16" W 125.74'

N 75°-30'-39" W 16.58'

N 86°-19'-15" W 2754.14'

N 86°-19'-15" W 2054.93'

510.00'

114E -X1 4.58 Acres

Construction Limit

Type 2 Crossing

VISINTINE & COMPANY

HAMILTON TOWNSHIP T4N R22W SECTION 22

GEORGE J. HOOVER

WTVN INC.

18" Pipe Outlet to ditch

Type B Crossing FRA-270-1221
96" Culvert 567+75

DITCH

SANDRIDGE

(Abandoned)

COUNTY DITCH

Stone Pd

HARRE BUTLER
115 -WL 13.55 Acres
0.13 Acres P.R.O.
13.76 Acres Total

115 -X 3.05 Acres

N 46°-27'-20" E 536.00'

114E -X1 4.58 Acres

N 86°-19'-15" W 515.00'

Construction Limit

N 07°-11'-18" W 69.16'

Note: For continuation of Sandridge Ditch EW see sheet 25

Match Line See Sheet 28

S 46°-27'-20" W

S 86°-16'-07" E 2187.61'

N 88°-25'-08" W 546.29'

COMPLETION DATE March 23, 1966 Scale: 1" = 50'

REV	DATE	DESCRIPTION

I Funds

R/W PLANS STA. 565+00 TO STA. 577+00

315/352

11/28

FED. RD DIVISION	STATE	PROJECT	
2	OHIO		

316/332

12/28

FRANKLIN COUNTY
FRA-270-1159 S

HAMILTON TOWNSHIP
T4N R22W
SECTION 22 & 23

LIMITED ACCESS

WTVN INC.

HAZEL M. O'HARRA

LA

S86°16'07"E 218.76'

℄ Construction Limit

FRA-270-1242
48" Culvert 578+75

WEST BOUND LANES I-270

EAST BOUND LANES I-270

SMALL TREES & BRUSH ALONG FENCE

SMALL TREES

SMALL TREE

578 579 580 581 582 583 584 585 586 587 588 589 590 591 592

℄ SURVEY 1961 I-270

Sta 577+00

Sta 593+00

North Line Sec 22

MARIE BUTLER
13.55 Acres
PRO 0.19 Acres
Total 13.74 Acres
115-WL

2085.83'

N86°19'15"W

Construction Limit ℄

N86°53'37"W

1000.05'

N87°03'48"W 540.18'

516.29'

N88°25'08"W

580+00
190.00' Rt.

115-Y MARIE BUTLER
3.05 Acres

580+00
180.00' Rt.

HAMILTON TOWNSHIP
T4N R22W
SECTION 22

HAZEL M. O'HARRA

WILLIS RAYMOND WHITE &
HAZEL LILLIAN WHITE

596+72.06
149.20' Lt.

S86°16'07"E 210.76'

Type 2 Crossing
Sta 596+48.06
149.14' Lt.

MARIE BUTLER
13.55 Acres
PRO 0.19 Acres
Total 13.74 Acres
115-WL

596+41.90
78.43' Lt.

116-WD

116A-WD 0.05 Acres
P.R.O. 0.02 Acres

597+20.94
118.97' Lt.

DON VAN GUNDY

597+22.07
180.45' Lt.

Sta 597+50.32
180.09' Rt.

356.77'

S86°41'51"E

RAY F. VANCE &
DOROTHY K. VANCE

355.32

433.32

116A-EL
0.24 Acres

HAMILTON TOWNSHIP
T4N R22W
SECTION 23

600+77.78
181.40' Lt.

600+77.35
164.65' Lt.

605+00
160.00' Lt.

BRUCE M. KREISCHER

500.40'

S88°36'41"E

LA

422.69'

S87°02'46"E

℄ Construction Limit

116A-WL
0.64 Acres
P.R.O. 0.05 Acres
Total 0.69 Acres
RAY F. VANCE &
DOROTHY K. VANCE

600+72.18
81.42' Lt.

405.33'

S86°42'51"E

435.29'

116B-WL
1.00 Acre
Total Take
ARLIE THOMPSON &
MONA L. THOMPSON

WEST BOUND LANES I-270

EAST BOUND LANES I-270

594 595 596 597 598 599 600 601 602 603 604 605 606 607 608

℄ SURVEY 1961 I-270

Sta 600+76.99

Sta 595+41.79

S. R/W = ℄ I-270 STA. 596+41.79

STA. 596+41.61

STA 50+00 ℄ LOCKBOURNE RD. CONST.

See Sheet 13 for R/W on Lockbourne Road

596+41.67
21.97' Rt.

600+76.95
18.58' Rt.

117-WL BRUCE M. KREISCHER
11.37 Acres
P.R.O. 0.12 Acres
Total 11.49 Acres

PROPOSED STRUCTURE
NO. FRA-270-12.71 S

Type 2 Crossing

595+40
123.00' Rt.

48+76.71
104.25' Lt.

597+36
165.00' Rt.

48+36.27
93.87' Rt.

BRUCE M. KREISCHER

Construction Limit ℄

765.00'

N86°19'15"W

N85°10'30"W
500.10'

605+00
165.00' Rt.

I Funds

Sta 595+40

Sta 600+00

N86°19'15"W 2085.83'

540.18'

MARIE BUTLER

3.05 Acres 115-Y

HAMILTON TOWNSHIP
T4N R22W
SECTION 23

MARIE BUTLER

S86°16'07"E 396.14'
(1900' Rt.)

S5°30'51"W

Area Relinquished to Franklin County
J.E. Dated May 5, 1971, Vol. 56, Page 996

COMPLETION DATE March 23, 1966.		Scale 1"=50'
Rev.	Date	Description
	6-9-66	Deleted 116AWD & 116AT ~ 116AWL Total Take
	7-29-66	Changed total take 116AWL to 116AWL, 116AEL & 116AWD
	5-2-72	Added Areas Relinquished

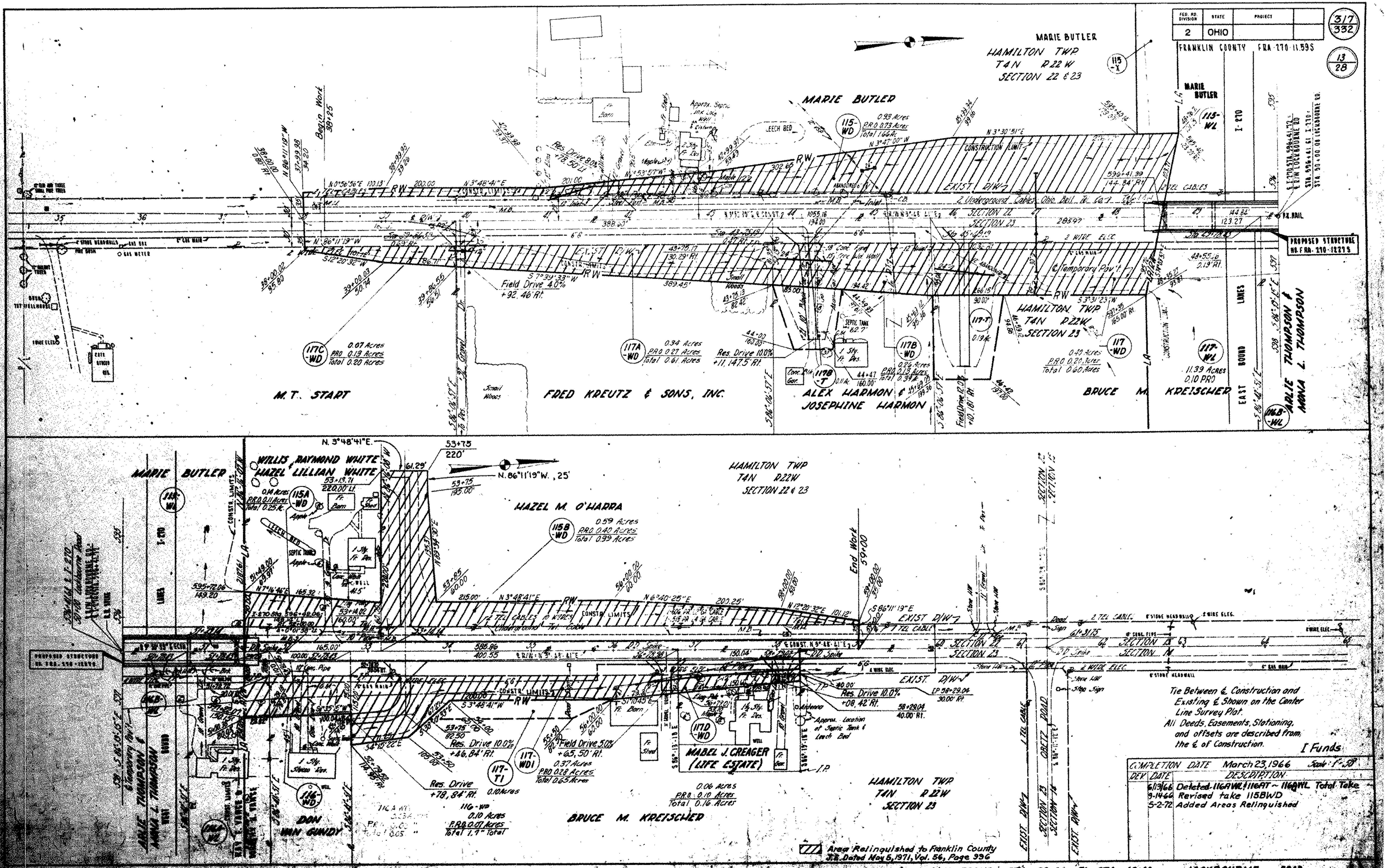
R/W PLAN STA 578+00 TO STA 608+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

317/332

13/28

FRANKLIN COUNTY FRA-270-11.59S



Tie Between ℄ Construction and Existing ℄ Shown on the Center Line Survey Plat.

All Deeds, Easements, Stationing, and offsets are described from the ℄ of Construction.

I Funds

▨ Area Relinquished to Franklin County
J.E. Dated May 5, 1971, Vol. 56, Page 996

COMPLETION DATE March 23, 1966 Scale: 1" = 50'

REV.	DATE	DESCRIPTION
	6/13/66	Deleted 116AWL & 116AT ~ 116BWL Total Take
	9-14-66	Revised take 115BWD
	5-2-72	Added Areas Relinquished

R/W PLANS STA. 38+00 TO STA. 62+00 - LOCKBOURNE ROAD

R/W PLANS - PARSONS AVE - STA 4+98 TO STA 35+00

FED. ROAD DIVISION	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY - FRA-270-11.99S

318 / 332

Suspend I Section | Begin IG Section Sta. 610+00

BRUCE M. KREISCHER

500.40' S 88°30'41" E

372.15' S 86°19'15" E

Well

Approx Location of small line from Well.

Pond

Gravel Drive

Begin Sheet at Sta. 608+00

WEST BOUND

EAST BOUND

610 611 612 613 614 615 616

S 86°-19'-15" E

11.99 Acres

PRR 0.10 Acre

Total 11.99 Acres

BRUCE M. KREISCHER

500.10' N 86°10'30" W

371.52' N 86°19'15" W

610+00 175.00 Rt.

613+71.52 175.00 Rt.

BRUCE M. KREISCHER

HAMILTON TOWNSHIP T4N R22W SECTION 23

616+72.66 180.00 Lt.

616+72.66 180.00 Lt.

300.70' Limit of Construction

299.78' S 86°19'15" E

PAUL E. NOTTER & DOROTHY L. NOTTER

2.45 Acres

2.07 Ac. Landlocked Residue

299.82' N 86°19'15" W

Limit of Construction

616+71.66 175.00 Rt.

S.W. Cor. NOTTER Property

LANES

I-270

619+72.66

619+71.66

R SURVEY 1961 I-270

NEVVA SHEETS

2.44 Acres

292.39'

616+20.72 175.00 Rt.

S.W. Cor. of SHEETS Property

69.64' RRVS 89°-38'-31" LIMITED ACCESS

622+53.88 197.72 Lt.

N 89°-62'-49" E

267.84'

Note: See next sheet for Railroad Plat for the C&O Railroad.

PROPOSED STRUCTURE RR. FRA. 270-11.78 S LT. & RT.

EDITH S. MAY

2.30 Acres

FRA-270-1928 48" Culvert 624+25

623+61.98 & I-270 91+71.66 - C&O R.R. SURVEY

622+39.82 197.02 Rt.

2.06 Ac. Landlocked Residue

1.78 Ac. Landlocked Residue

CLEVELAND & OHIO RAILWAY CO.

Type 2 Crossing

Type 2 Crossing IND. COMM. OF OHIO ATTREE R. McCLISH

STATE OF OHIO

0.44 Ac. Woods

14 Marsh

623 624

623+48.38 210.80 Rt.

See 1"=20 Scale Detail For Railroad Parcels

14/28

ATTREE R. McCLISH

1.03 Acres

Type 2 Crossing

935.79' S 86°-37'-37" E

633+00 210.00 Lt.

HAMILTON TOWNSHIP T4N R22W SECTION 23

Construction Limits

S 86°-19'-15" E 1408.41'

600.00' S 86°19'15" E

S.E. Cor. AMT Property

639+00 210.00 Lt.

S 87°-15'-11" E 200.06'

626 627 628 629 630 631 632 633 634 635 636 637 638 639 640

C&E Survey 1961

WEST BOUND LANES I-270

EAST BOUND LANES I-270

20.65 Acres

STATE OF OHIO (ATTREE R. McCLISH) IND. COMM. OF OHIO

I & IG FUNDS

Pcl 117-WL 8.46 Acres I FUNDS

3.03 Acres I G FUNDS

1.95 Acres

Construction Limit

1478.14'

S 86°-19'-15" W 1278.57'

207.26'

600.91'

N 89°10'22" W

633+00 225.00 RT.

627+00 182.00 RT.

N 86°19'15" W

18" Pipe Culvert Headed in ditch

COMPLETION DATE		March 23, 1966	SCALE 1"=50'
REV.	DATE	DESCRIPTION	
1	8/29/66	Changed R.R.V. & Sta. ℄ ℄ Intersection to 91+71.93 also remove extraneous reference of ℄ track (1946 AT) of ℄ R.	

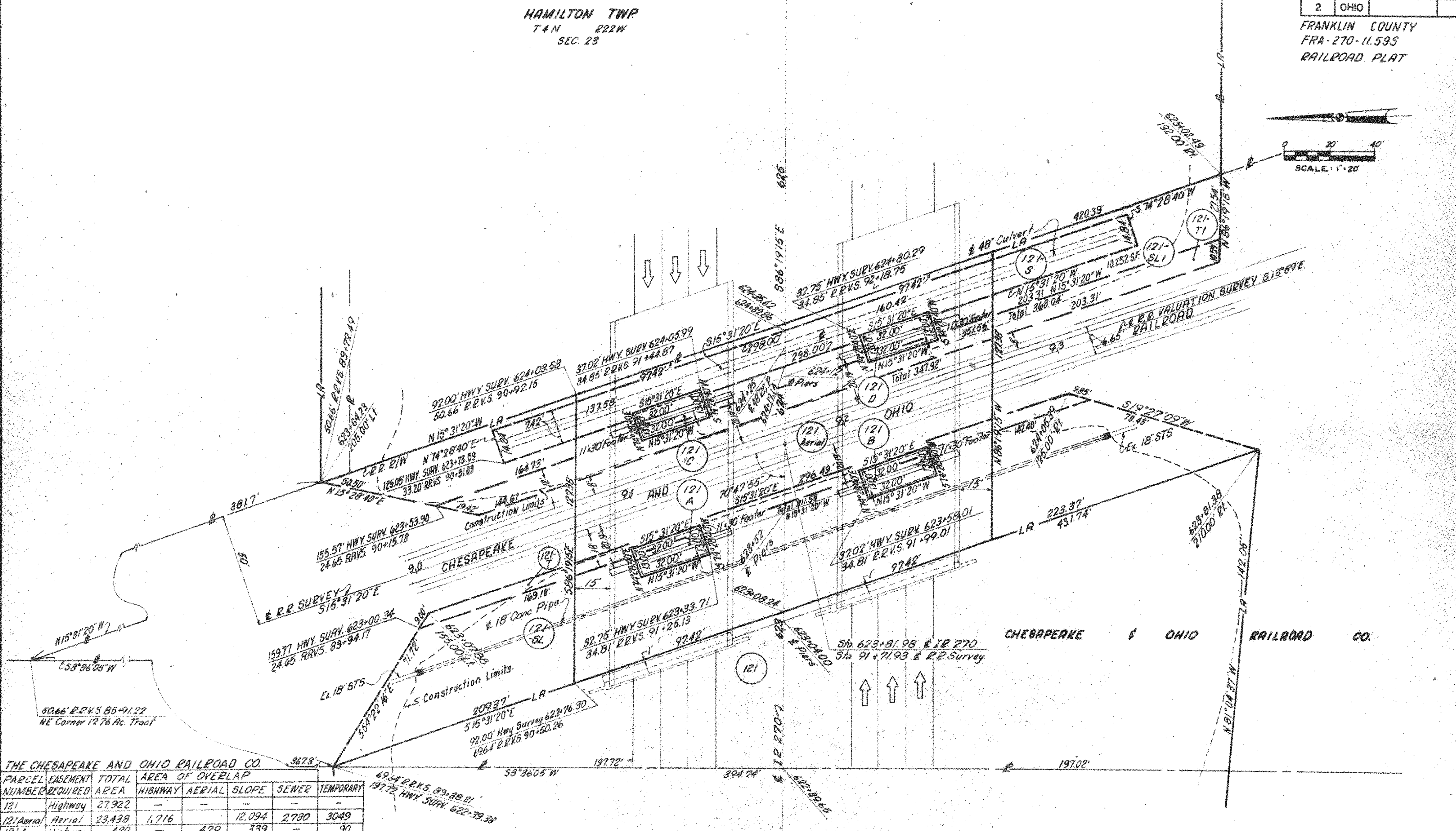
18" T.I. Ind. (Abandon)

End Sheet at Sta. 642+00

R/W PLANS STA. 609+00 TO STA. 642+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY
FRA-270-11.59S
RAILROAD PLAT



THE CHESAPEAKE AND OHIO RAILROAD CO.

PARCEL NUMBER	EASEMENT REQUIRED	TOTAL AREA	AREA OF OVERLAP				
			HIGHWAY	AERIAL	SLOPE	SEWER	TEMPORARY
121	Highway	27,922	—	—	—	—	—
121 Aerial	Aerial	23,438	1,716		12,094	2,730	3049
121A	Highway	429	—	429	339	—	90
121B	"	429	—	429	339	—	90
121C	"	429	—	429	339	52	90
121D	"	429	—	429	339	52	90
121S	Sewer	4,422	104	2,894	4,422	—	—
121-SL	Slope	16,720	628	8,216	—	—	—
121-SL1	Slope	10,252	628	3,878	—	2,730	—
121-T	Temporary	1,716	180	1,101	—	—	—
121-T1	Temporary	3,580	180	1,948	—	—	—

NOTE
See previous sheet for general location plan and additional Right of Way data.

COMPLETION DATE March 23, 1966.		
REV.	DATE	DESCRIPTION
1	8/29/66	Added 100' to all refrerences to R.R. valuation stations.

FED. RD DIVISION	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY
FRA-270-11.593

320/332

16/28

HAMILTON TOWNSHIP
T4N R22W
SECTION 23 & 24

ATTREE R. McELISH
Type 2 Crossing
103 Acres

122B-T | 122B-X | 122B-WL | 122A-WD | 122B-WD

See Sheet 26

641+00
215.00 Lt.

Begin Sheet of Sta 641+00

S 86°19'15" E Limit of Construction

8'x8' Box Culvert
FRA-270-1367
644+58.00 ℄ I-R 270
10+00 ℄ Rel Johnston County Ditch

CURVE DATA BELOW O.R. RD.
P.I. STA. 29+98.75
Δ = 5°-59'-34"
D = 4°-00'
R = 1432.39'
L = 141.07'
T = 70.59'
E = 1.74'

122A-WL
0.51 Acres

JOHNSTON DITCH

WEST BOUND LANES I-270

EAST BOUND LANES I-270

STA 647+77.91 ℄ I-270

642 643 644 645 646 647 648 649 650 651 652 653 654 655 656

S 86°-19'-15" E

Note: For continuation of Channel for Johnston Ditch, see Sht. 28.

Note: See Sheet 18 for RW at Obetz Reese Road See next sheet for Railroad Plat for N&W R.R.

STATE OF OHIO (ATTREE R. McELISH) (IND. COMM. OF OHIO)
20.65 Acres
122C-WL

ATTREE R. McELISH
7.45 Acres
122C-T

2275.57'
2018.06'
S 86°19'15" W

642+50 225.00 Rt.
642+50 250.00 Rt.
0.09 Acres

644+00 225.00 Rt.
644+00 250.00 Rt.

645+40 225.00 Rt.

646+25 225.00 Rt.
647+78.16 225.00 Rt.

℄ Limit of Construction

CORPORATION OF OBETZ

LIMITED ACCESS

649+16.84 205.00 Lt.
649+91.54 205.00 Lt.

℄ Plug
Type 2 Crossing
℄ Clay Tile
Abandon

1009.96'
S 88°11'57" E
℄ Limit of Construction 2

HERBERT REES TRAVIS
123-WL
41.35 Acres
PRO 3.99 Acres
Total 45.34 Acres

PROPOSED STRUCTURE
FRA-270-1377 S
Lt. Brt.

FRA-270-1376
6'x6' Box Culvert 649+57

℄ Survey 1961

N&W RR 649+16.84 205.00 Lt.
ROW E.R. STA. 647+43.48 - 100' Rt.

NORFOLK & WESTERN RAILWAY CO.
123-T

Type 2 Crossing
185 Ft.
℄ Limit of Construction
1053'
S 89°47'18" W

HERBERT REES TRAVIS

CORPORATION OF OBETZ
NORFOLK & WESTERN RAILWAY CO.
COLUMBUS & S.E. OHIO ELEC. CO.

122A-WD
122B-WD
123-T
123-WL
123-7
123-8L
123-8L.1
122C-WL
122C-T
122C-X
122B-T
122B-X
122B-WL
122A-WD
123-11
123-T1
123-WL
123-7
123-8L
123-8L.1
122A-WL
122B-WL
122B-T
122B-X
122C-WL
122C-T
122C-X

Suspend IG Section
Begin I Section Sta. 665+00

667+38
590' Lt.

1009.96'
S 88°11'57" E
660+00
150.00' Lt.

1296.55'
S 86°19'15" E
℄ Limit of Construction 2

671+00
150.00' Lt.

℄ Temporary Rd
E.L. RW 2
E.L. RW
℄ Old RW
Type 2 Crossing
186 Lt.
186 Rt.
℄ Old Rw
PROPOSED STRUCTURE FRA-270-1375 S

HERBERT REES TRAVIS
124-WL
41.35 Acres
PRO 3.99 Acres
Total 45.34 Acres

WEST BOUND LANES I-270

EAST BOUND LANES I-270

Sta. 657+00

658 659 660 661 662 663 664 665 666 667 668 669 670 671 672

S 86°-19'-15" E

℄ Survey 1961 I-270

Median Crossover ±28

℄ Limit of Construction

1781.43'
N 86°19'15" W

810.53'
S 89°47'18" W
658+00
150.00 Rt.

HERBERT REES TRAVIS

COLUMBUS & S.E. OHIO ELEC. CO.
HARRISON TO MARION R.R.
138,000 VOLT TRANS. LINE.

COLUMBUS & S.E. OHIO ELECTRIC CO. LINE EASEMENT

Vol 2449 P. 319

666+57
271 Ft.

I & IG FUNDS
Pcl. 124-WL
I FUNDS 45.34 Acres
IG FUNDS 6.47 Acres

COMPLETION DATE	March 23 1966.	RDWG. F-7-18
REV.	DATE	DESCRIPTION

R/W PLANS STA. 641+00 TO STA. 673+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

321/332

FRANKLIN COUNTY
FRA-270-11.59S
RAILROAD PLAT

17/28

HAMILTON TWP
T4N R22W
SEC 23,24

SCALE 1"=20'

649+91.54 205.00' Lt
649+91.49 92.83' Lt
E HWY. SURV. 649+91.44
16'x55.67' Footers Abutements
92.83' HWY. SURV. 649+91.39 100.00' RR'S. 4625+50.65
205.00' HWY. SURV. 649+91.34 100.00' RR'S. 4625+38.48
N3°42'25"E
L.P.R. E/W
185.66
410.00'
S3°40'45"W 57.67'
N3°40'45"E 57.67'
123 E
123 F
123 S
123 SL1
123 T1
123 Aerial
123 C
123 D
123 A
123 B
123 SL
123 T
123 S
123 9L
123 1B
6'x6' Box Culvert
924.94'
S3°42'25"W
21.17 HWY. SURV. 649+66.80 15.07 RR'S. 4627+22.30
21.17 HWY. SURV. 649+66.50 15.05 RR'S. 4627+64.64
925'x25.50' Footers Piers
161.67 HWY. SURV. 649+57.09 65.56' RR'S 4629+05.13
162.67 HWY. SURV. 649+56.98 65.56 RR'S 4625+80.79
205.00' HWY. SURV. 649+21.84 30.50' RR'S 4629+48.45
205.00' HWY. SURV. 649+21.84 30.50' RR'S 4625+38.45
Construction Limits
418.00'
OBETZ CORP LINE & HAMILTON TWP
N3°42'25"E
TRACK
NORFOLK AND WESTERN RAILROAD
46.29
46.28
4628
4627
89°58'20"
649
N3°42'25"E
L&R 2 Valuation Survey N7°02'30"E
Construction Limits
596.58'
See Sheet 1B
1119.5' to North Line Section 24
Total 1785.00
R.R. R/W
CONST'D. OBETZ
REESE ROAD
Sec. 24
Sec. 23
648+61.54 225.00' Lt
648+61.33 225.00' Rt
92.83 Hwy. Survey 648+91.44 90.00 RR'S 4626+36.24
℄ HWY. SURV 648.91.44
℄ RR'S. 4627+43.43
℄ HWY. SURV. 648+61.44
℄ Sta. 648+77.50
℄ I.R. 270
I.R. 270 Sta. 648+46.90 = ℄ Const'd. O.B.Z. Rd. 27+43.40
℄ Piers #2 649+28.50
℄ Piers #3 649+28.50

THE NORFOLK AND WESTERN RAILWAY CO.

PARCEL NUMBER	EASEMENT REQUIRED	TOTAL AREA	AREA OF OVERLAP				
			HIGHWAY	AERIAL	SLOPE	SEWER	TEMPORARY
123 Aerial	Aerial	24,136	3,312	—	15,317	3,342	3,342
123 A	Highway	309	—	309	235	—	74
123 B	Highway	309	—	309	235	—	74
123 C	Highway	309	—	309	280	—	29
123 D	Highway	309	—	309	280	—	29
123 E	Highway	1,038	—	1,038	1,038	—	—
123 F	Highway	1,038	—	1,038	1,038	—	—
123-SL	Slope	20,020	148	2,414	—	—	—
123 SL1	Slope	28,495	2,636	12,903	—	5,830	—
123-S	Sewer	5,838	—	3,342	5,838	—	—
123-T	Temporary	10,119	148	1,671	—	—	—
123-T1	Temporary	3,690	58	1,671	—	—	—

Note:
See previous sheet for general location plan and additional Right of Way data.

COMPLETION DATE March 23, 1966. SCALE 1"=20'

REV	DATE	DESCRIPTION
1	4-28-66	Overlap Slope - Rerial

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY
FRA-270-11.99 G

322
332

18
28

HAMILTON TOWNSHIP
T4S R22W
SECTION 23 & 24

COLUMBUS & SOUTHERN OHIO ELEC. CO.

CHARLES E. & JOSEPHINE B. WILLIAMS

ATTREE R. McCLISH

BEGIN WORK STA. 41+00

Field Drive (100' R/W) 150.40' PR.

0.70 Acres (122C-A)

462.90'

Pipe Street R.R.

I-270 (PEE. JOHNSTON COUNTY DITCH CONSTRUCTION LIMIT)

282.57'

S 29° 19' 15" E

122C (WD)

ATTREE R. McCLISH

0.49 Acres

647+78.14
225.00' RT

25+18.69
28.19' LT

241.00'

N 2° 35' 45" E

(ATTREE R. McCLISH)
(INCL. COMM. OF OHIO)
STATE OF OHIO

122 LA

I-270

N 26° 04' 15" W

156.57'

CHORD

N 8° 24' 11" E
R = 1884.00

22+72.60
89.41' LT.

0.54 Acres

647+28.14
225.00' RT

122 (WD)

122 (WD)

COLUMBUS & SO. OHIO ELEC. CO.

468.24'

Elliot Rd. (Rte. 2)

N 3° 32' 41" E

N 3° 15' 10" E

2% CONSTRUCTION

673.41'

EXIST. RAILROAD R/W LINE

P.C. 20+00.00

Total 7+88.20

P.T. 27+88.20

P.C. 20+70.04
14.17 RT

N 3° 47' 29" E

N 3° 47' 29" E

HAMILTON TOWNSHIP
OBETZ CORPORATION LINE

4612+00 4613+00 4614+00 4615+00 4616+00 4617+00 4618+00 4619+00 4620+00 4621+00 4622+00 4623+00

WESTERN RAILROAD

CONSTRUCTION LIMIT

5% 59

4567+00

4621+46.82
17.00' LT

22+08.08
35.49 RT

20,000 S.F.

123 (WD)

123 (T)

123 (SLI)

123 AERIAL

123 (T1)

NORFOLK & WESTERN RAILWAY CO.

10,119 SF

123 (T)

21"ø 90 Road Constr.
26.63' RT.

123

4622+00
8.00' LT

EXIST. RAILROAD R/W LINE

DRAIN & SMALL TREES

VILLAGE OF OBETZ

HERBERT REES TRAVIS

Note: Angle breaks in the ℄ of Obetz-Reese Road are construction only.

HAMILTON TOWNSHIP
T4S R22W
SECTION 23 & 24

ATTREE R. McCLISH

CURVE DATA BELOW RR R.R.

Δ = 5° 18' 54"
D = 4° 00'
R = 1432.39'
L = 661.87'
T = 110.58'
E = 1.16'
P.T. STA. 28+98.19

29+47.00
81.87' LT
647+28
213.00' LT
653+61.87
00.58' LT
647+77.11
213.00' LT

31+00
40.00' LT.

STATE OF OHIO
(ATTREE R. McCLISH)
(INCL. COMM. OF OHIO)

124 LA

PROPOSED STRUCTURE
FRA-270-1521 S.D. & INT.

123 (WD)

647+77.76
192.80' LT.

30+44
12'

30+78
48.12'

30+98.34
℄

COLUMBUS & SO. OHIO ELEC. CO.

P.T. 28+98.19

120.05'

N 3° 47' 29" E

774.59'

CONSTRUCTION LIMIT

N 3° 32' 41" E

964.67'

N 3° 15' 10" W

499.14'

715.53'

EXIST. RAILROAD R/W LINE

OBETZ

REESE

ROAD

N 3° 47' 29" E

HAMILTON TOWNSHIP

OBETZ CORPORATION LINE

4627+00 4628+00 4629+00 4630+00 4631+00 4632+00 4633+00 4634+00 4635+00 4636+00 4637+00 4638+00 4638+53.00 4639+00 4640+00

WESTERN RAILROAD

123 (SLI)

20,020 SF

123 (T1)

10,119 SF

NORFOLK & WESTERN RAILWAY CO.

123 AERIAL

NORFOLK & WESTERN RAILWAY CO.

4634+41.35
17.00' LT.

34+35.34 Road Constr.
83.99' RT.

EXIST. RAILROAD R/W LINE

HERBERT REES TRAVIS

124 (WL)

VILLAGE OF OBETZ

HERBERT REES TRAVIS

124

1.06 Acres
P.B.O. 0.08 Acres
Total 1.09 Acres

122B (WD)

ATTREE R. McCLISH

38+74.54
35+14.54
60.58' LT.

8" MAPLE

8" MAPLE

RW

18" HARDWOOD

38+68.15
℄

WOLF & WEBB

EVELYN F. ROTH

TENNESSE

PHILIP H. HAMILTON
YVONNE

PAULINE WAGNER

HERBERT L. KELLER

& HELEN WAYNE KELLER

100 101 102 103 104 105

50'

MARLBORO AVE.

EXIST R/W

1" GAS LINE

NEW WORTH VALLEY ROAD 60'

N 1° 35' 00" W

END WORK STA. 48+00

279.13' 28.11

280.68'

6 WIRE ELEC.

38+65.71
27.96 RT.

RW 48
120 RT

1.02 Acres
P.B.O. 0.02 Acres
Total 1.04 Acres

COLUMBUS & SOUTHERN OHIO ELEC. CO.

N 3° 32' 41" E

1185 SY MWY 98-48.14
30.00' LT PAVE ALSO 1200

SCONST. 0.0.69 STA. 39+70.81±
SCIOTO VALLEY ROAD

SECTION 13
SECTION 24

SECTION 18
SECTION 13

OBETZ

REESE

ROAD

EXIST. RAILROAD R/W LINE

CONSTRUCTION LINE

4634+41.35
17.00' LT.

34+35.34 Road Constr.
83.99' RT.

EXIST. RAILROAD R/W LINE

SECTION LINE S 36° 25' 35" E

Note: See Previous Sheet for Railroad Plat for N & W R.R.

All Deeds, Easements, Stationing, and Offsets are Described from the ℄ of Construction.

Tie Between ℄ Construction and Existing ℄ Shown on the Center Line Survey Plat.

I6 FUNDS

COMPLETION DATE March 23, 1966. Scale: 1" = 50'

REV.	DATE	DESCRIPTION

R/W OBETZ-REESE RD. & N&W RAILROAD

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY
FRA-270-11.39 S

LIMITED ACCESS

CORPORATION OF DUBLIN

JOSEPH H. NIEMANN & VIRGINIA M. NIEMANN
(19.5 E WD)
NOTE: SEE GROVEPORT RD. SHEET No. 20 FOR AREAS.

OMAR A. MANSON
MARY A. MANSON
NOTE: SEE GROVEPORT RD. SHEET No. 20 FOR AREAS.
(19.5 E WD)
FOR DETAIL OF GROVEPORT ROAD SEE SHEET NO. 20

LEACH BED

CARL F. NIEMANN ET AL.

HERBERT REES TRAVIS

Curve Data - I-270
PI Sta. 708+66.90
Δ = 36° 14' 42" Lt.
Dc = 1° 00' 00"
R = 5729.58'
L = 3624.30'
T = 1862.20'
E = 766.97'

0.14 Acres (125-X)
0.23 Acres (126-X)
0.05 Acres
0.06 Acres (124-T2)
0.06 Acres (124-S) (Residual Land 4.38 Ac.)
41.95 Acres (124 WD)
PRR 3.99 Acres
Total 45.94 Acres
1.47 Acres (124-W1)

State of Ohio (FENNER) (126-X)

20' Easement to be acquired by others

Construction Limit

FUTURE RAMP "T"

RAMP "W"

PROPOSED STRUCTURE FRA-270-1315S

FRAME SHED
FR. BARN
FR. SHED
FR. RES.
MILL HOUSE
CISTERN
U/G GAS TANK
2 STY.
8" MAPLE
4-12" TO 30" MAPLE
BUSH
FND.
E.P.
P/L
R/W
P.C.
P.T.
L.A.
B.P.R.
C.B.L.M.
Z

I-270 STA. 674+31.40 = STA. 197+38.86 ℄ GROVEPORT RD.
674+00
℄ I-270
676+00
678+00
679+00
680+00
681+00
682+00
683+00
684+00
686+00
687+00
688+00
℄ RELOC. ALUM CREEK DRIVE
℄ I-270
RAMP "T"
RAMP "W"
RAMP "X"
SERVICE ROAD
21
22
23
24
25
26
28

PC Sta 679+04.70
B=45.00 & 24" RCP = 679+04.70 L 18.70
PC Sta 708+66.90

See Sheet 20 for R/W on Groveport Road

Proposed 24" RCP Sanitary Sewer
679+29.03
160.67 Rt.
POT 18

Proposed 24" RCP
20' Easement to be acquired by others

Type P Coating
U/G TELE. CABLE
REPEATER STA.
TELE. CO. BOX
5' GATE
PARTS OF OLD FENCE
FIELD DRIVE
SMALL TREES
TELE. CABLE
6" RELOC. GROVEPORT ROAD
12" D.T.
12" ELM
10" ELM
24" ELM
24" HACKBERRY
18" HACKBERRY
18" MAPLE
16" ASH
12" ASH
30" ASH
20" ASH
FALLEN TREE
CHILD CHERRY
5-12" ASH TREES
Ditch
Swale
Plug
Culvert
Pond
Stream
Fence
Guy
Standpipe
Overhead Wires
Concrete Pad
Power Pole
Guy Pole
Light Pole
Mail Box
Sign
Gate
Bridge
Catch Basin
Manhole
Inlet
Valve
Hydrant
Meter
Transformer
Pedestal
Telephone Pole
Telephone Manhole
Telephone Pedestal
Telephone Booth
Telephone Vault
Telephone Cable
Telephone Wires
Telephone Conduit
Telephone Duct
Telephone Splice
Telephone Terminal
Telephone Junction Box
Telephone Cross Arm
Telephone Guy
Telephone Anchor
Telephone Pole Line
Telephone Pole Number
Telephone Pole Height
Telephone Pole Class
Telephone Pole Species
Telephone Pole Condition
Telephone Pole Remarks
Telephone Pole Date
Telephone Pole Inspector
Telephone Pole Treatment
Telephone Pole Preservative
Telephone Pole Retention
Telephone Pole Penetration
Telephone Pole Assay
Telephone Pole Analysis
Telephone Pole Report
Telephone Pole Survey
Telephone Pole Map
Telephone Pole Plat
Telephone Pole Easement
Telephone Pole Right of Way
Telephone Pole Permit
Telephone Pole Agreement
Telephone Pole Contract
Telephone Pole Specification
Telephone Pole Standard
Telephone Pole Detail
Telephone Pole Drawing
Telephone Pole Sheet
Telephone Pole Plan
Telephone Pole Profile
Telephone Pole Section
Telephone Pole Elevation
Telephone Pole Grade
Telephone Pole Slope
Telephone Pole Curve
Telephone Pole Tangent
Telephone Pole Station
Telephone Pole Offset
Telephone Pole Bearing
Telephone Pole Distance
Telephone Pole Coordinate
Telephone Pole Benchmark
Telephone Pole Datum
Telephone Pole Control
Telephone Pole Traverse
Telephone Pole Triangulation
Telephone Pole Leveling
Telephone Pole Topography
Telephone Pole Contour
Telephone Pole Spot Elevation
Telephone Pole Cross Section
Telephone Pole Profile Grade
Telephone Pole Earthwork
Telephone Pole Quantity
Telephone Pole Estimate
Telephone Pole Cost
Telephone Pole Payment
Telephone Pole Final
Telephone Pole As Built
Telephone Pole Record
Telephone Pole File
Telephone Pole Number
Telephone Pole Sheet
Telephone Pole Plan
Telephone Pole Profile
Telephone Pole Section
Telephone Pole Elevation
Telephone Pole Grade
Telephone Pole Slope
Telephone Pole Curve
Telephone Pole Tangent
Telephone Pole Station
Telephone Pole Offset
Telephone Pole Bearing
Telephone Pole Distance
Telephone Pole Coordinate
Telephone Pole Benchmark
Telephone Pole Datum
Telephone Pole Control
Telephone Pole Traverse
Telephone Pole Triangulation
Telephone Pole Leveling
Telephone Pole Topography
Telephone Pole Contour
Telephone Pole Spot Elevation
Telephone Pole Cross Section
Telephone Pole Profile Grade
Telephone Pole Earthwork
Telephone Pole Quantity
Telephone Pole Estimate
Telephone Pole Cost
Telephone Pole Payment
Telephone Pole Final
Telephone Pole As Built
Telephone Pole Record
Telephone Pole File

CURVE DATA RELOC. GROVEPORT RD.
PI STA. 141+92.65
Δ = 14° 50' 15"
D = 04° 00' 00"
R = 1432.39'
L = 370.94
T = 186.51
E = 12.09

CURVE DATA EXISTING GROVEPORT RD.
Δ = 15° 46' 00"
D = 04° 00' 00"
R = 1432.40
T = 198.34
L = 394.17

EASEMENT TO OHIO BELL TEL. CO. FOR UNDERGROUND CABLE. RECORDED IN VOL. 1055 - PAGE 185.

OHIO BELL TELEPHONE Co. UNDERGROUND TRUNK CABLE ENTRANCE TERMINAL

MATCH LINE STA 673+00

MATCH LINE

See Sheet 20

I Funds

COMPLETION DATE MARCH 23, 1966. SCALE 1"=50'

REV	DATE	DESCRIPTION

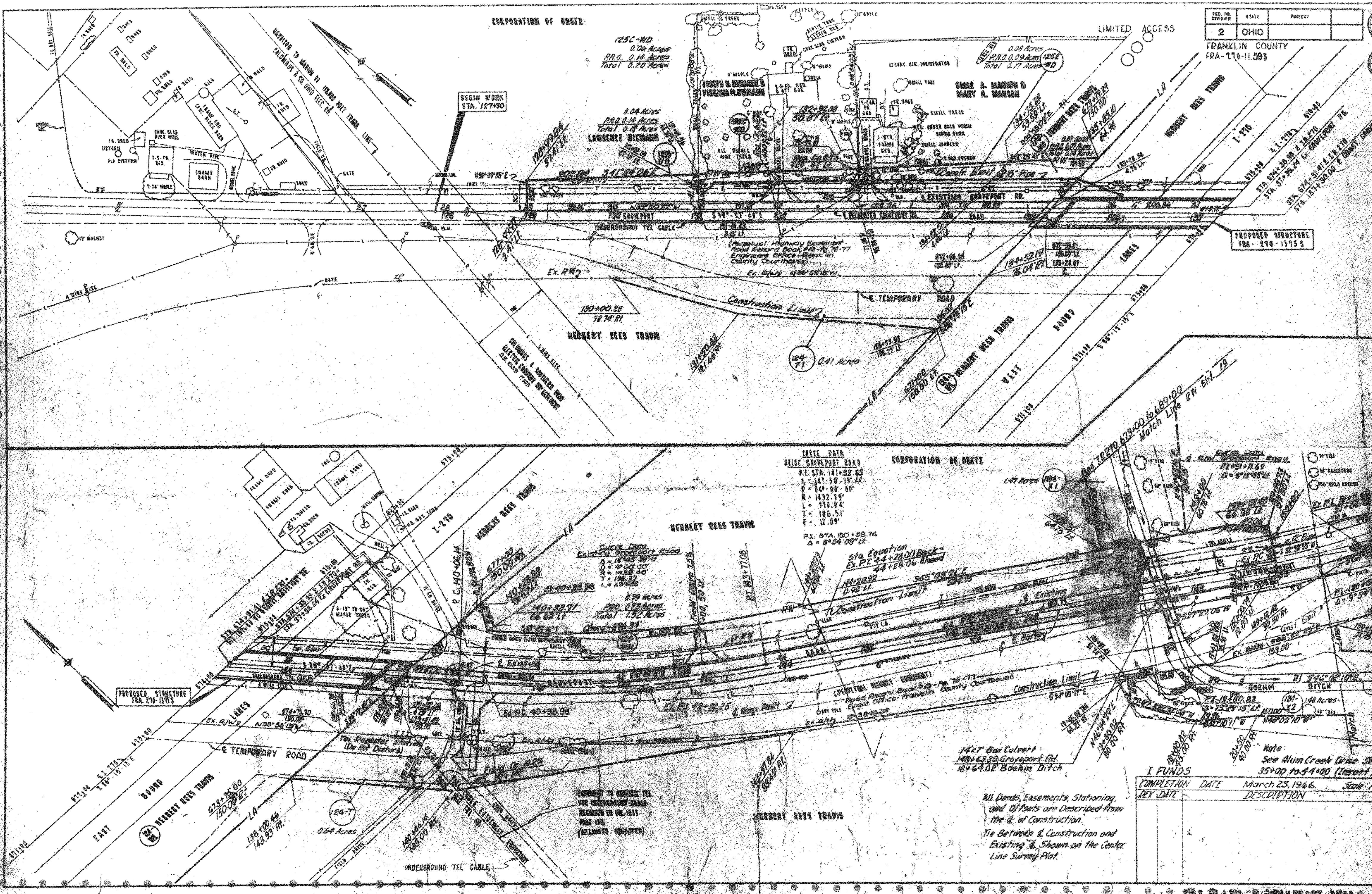
R/W ALUM CREEK DRIVE INTERCHANGE ℄ I-270 STA 673+00 TO 688+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY
FRA-270-11.59S

324/332

20/28



I FUNDS

COMPLETION DATE		March 23, 1966	Scale 1"=50'
REV	DATE	DESCRIPTION	

Note
See Groveport Rd Sheet 20

CORPORATION OF OBETZ

MATCH LINE STA 44+00

SHEET 22

LIMITED ACCESS

FED. AID DIVISION	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY
FRA-270-11.59

325
332

21
28

Ex. P.T. 51+11.69 Back
P.T. 51+06.64 Ahead

PERPETUAL HIGHWAY EASEMENT

PT 150+52.74
Δ = 3°54'09" Lt.

150+63.97 Ipsco
71.45 Rt.

21+55
51.00 Lt.

PT 22+10.74
Δ = 24°38'45" Rt.

151+50
150.00 Rt.

Match Line A-A
This sheet

Match Line A-A
See Insert

23+50
40.00 Rt.

PT. 24+44.18
Δ = 16°20'30" Lt.

24+00
35.00 Lt.

23+50
70.00 Rt.

Construction Limits

HERBERT REES TRAVIS

END WORK
26+70

27+00
20.00 Lt.

27+00
40.00 Rt.

INSERT - BOEHM DITCH CHANNEL IMPROVEMENT SOUTH OF GROVEPORT ROAD

MATCH LINE STA 44+00

P.T.

43+35.00
105.00 Lt.

41+00
120.00 Lt.

Construction Limits

HERBERT REES TRAVIS
41.35 Acres
PRO 3.98 Acres
Total 45.34 Acres

12" CONC PIPE

GRAVEL DRIVE

4" UNDERDRAIN

EXIST. R/W LINE

SIGN

P.S.

40+00
150.00 Rt.

HERBERT REES TRAVIS

1240-WD
0.49 Acres
PRO 0.41 Acres
Total 0.90 Acres
SCRUB

97+78.62
100.00 Lt.

Begin Limited Access R/W Fence

97+43.17
150.00 Rt.

HUMBLE OIL & REFINING CO.

RAZED (FOUND OIL)

STANDARD OIL CO.

OSEPTIC TANK

3-4000 GAL UNDERGROUND TANKS

SOHIO SIGN

GAS STA.

TOILET PUMP ISLAND

BLACKTOP DRIVE

CONC. SLAB WELL

TELE. & ELEC WIRES

CONC. PUMP ISLAND

SOHIO SIGN

LIGHT POLE

TELE. CABLE

12" DT.

4" DT.

SIGN

15" CONC. PIPE

Ex. R/W

Ex. Box Culvert (SILTED)

End Wall 10+67

BUSHES

Phillips Petroleum Company

SCRUB

Match Line 91+00

See R/W Sheet

24" APPLE
0.09 Acres
PRO 0.16 Acres
Total 0.25 Acres

N 25°11'11"E 30.00'
Match Line A-A
See Insert

154+39.05
8.39 Lt.

154+39.28
7.00 Lt.

4-WIRE ELEC.

Const's Limit

Ex. R/W

Temp. Road

Ex. R/W

SIGNS

GUARDRAIL

CB

RELOC ALUM CREEK DRIVE

E. I-270

RAMP 'L'

RAMP 'K'

RAMP 'J'

RAMP 'M'

RAMP 'N'

SERVICE ROAD

To Sheet 27

Existing Alum Creek Drive Curve Data

Δ = 16°22'let
D = 1°50'
R_c = 5819.72'
$\frac{1}{2}$ = 150'
T_s = 536.45'
E_s = 50.48'
$\frac{1}{2}$ = 0.98'
X_s = 149.93'
LSC = 807.78'
Q_s = 1°07'50"

0.19 Acres
PRO 0.24 Acres
Total 0.37 Acres

115.50'
N 19°30'40" W

(12A-3) ROBERT L. COLLINS (TRUSTEE)

2.79 Acres
PRO 0.26 Acres
Total 1.05 Acres

43+40.50
427.09'

SAMSON FRONTAGE ROAD

SAMSON FRONTAGE ROAD CURVE DATA
P.I. STA. 4+07.59
Δ = 42°30'
D = 14°00'
R = 358.10'
T = 139.23'
L = 265.63'

42+07.46
441.81'

44+1.84
439.84'

ROBERT L. COLLINS (TRUSTEE)

GATE

I FUNDS

All Deeds, Easements, Stationing, and Offsets are Described from the ℄ of Construction.
Tie Between ℄ Construction and Existing ℄ Shown on the Center Line Survey Plat.

COMPLETION DATE MARCH 23, 1966. SCALE 1"=50'

REV.	DATE	DESCRIPTION
		P.K. Spike

R/W PEANS ALUM CREEK DRIVE INTERCHANGE - ACD STA. 39+00 TO 44+00

SUBDIVISION OF ONETA
SECTION 24

MADISON TOWNSHIP
T1N R21W
SECTION 18

LIMITED ACCESS

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY
FRA-270-11.59 S

326/332

22/28

MATCH LINE STA. 53+00 SHEET 23

MATCH LINE STA. 44+80 SHEET 21

126-EL
0.48 Ac. Landlocked Residue
692+08.85 200.00' Lt.

127-EL
1.96 Acres Landlocked Residue
691+00 180.00' Lt.

127-LA
3.54 Acres Total
STATE OF OHIO (WORTH)
N66°28'47"W SMALL TREES & PARTS OF OLD FENCE

126-LA
7.76 Acres Total
(3.76 Acres) B.P.R. Participation
STATE OF OHIO (FENNER)
FUTURE RAMP "S"

124-WL
41.35 Acres
PRO. 3.99 Acres
Total 45.34 Acres
(44.89 Acres B.P.R. Participation)
HERBERT REED TRAVIS

131-WL
19.31 Acres
PRO. 2.80 Acres
Total 22.11 Acres
CLAUDDUS H. BAKER & HAZEL FERNE BAKER

124-WL
1.09 Acres
PRO. 0.46 Acres
Total 1.49 Acres

124-WL
0.13 Acres
PRO. 0.24 Acres
Total 0.37 Acres

ROBERT L. COLLINS (TENANT)
0.79 Acres
PRO. 0.26 Acres
Total 1.05 Acres

PROPOSED STRUCTURE FRA-270-19.74 S.B.M.

RAMP "W" D = 6°00'

RAMP "S" D = 4°00'

Construction Limit ℄
338.44'
N85°55'18"W
692+16.24
310.00 Pt.
693+28.57
404.46 Pt.
44+35.00
148.00' Lt.

Construction Limit ℄
460.08'
N39°31'30"E

CURVE DATA I-270
PI STA 709+66.90
Δ = 56°14'42" Lt.
Dc = 1°00'00"
R = 5729.58'
L = 5624.50'
T = 3062.20'
E = 766.97'

SAMSON FRONTAGE ROAD
CURVE DATA
PI STA 11+28.79
Δ = 27°56'15" Rt.
D = 4°30'
R = 1,273.24'
T = 317.10'
L = 621.36'

SAMSON FRONTAGE ROAD
CURVE DATA
PI STA 4+67.42
Δ = 62°30'Rt.
D = 16°00'
R = 358.10'
T = 139.25'
L = 265.03'

All Deeds, Easements, Stationing, and Offsets are Described from the ℄ of Construction.
Tie Between ℄ Construction and Existing ℄ Shown on the Center Line Survey Plat.

STATE PARTICIPATION
Parcel 124-WL 0.45 Acres
Parcel 126-LA 4.00 Acres
Parcel 127-LA 2.11 Acres

I FUNDS

COMPLETION DATE MARCH 23, 1966. SCALE 1"=50'

REV.	DATE	DESCRIPTION

R/W PLANS ALUM CREEK DRIVE INTERCHANGE ACD STA. 44+00 TO 53+80

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY
FRA-270-11.59S

327/332

23/28

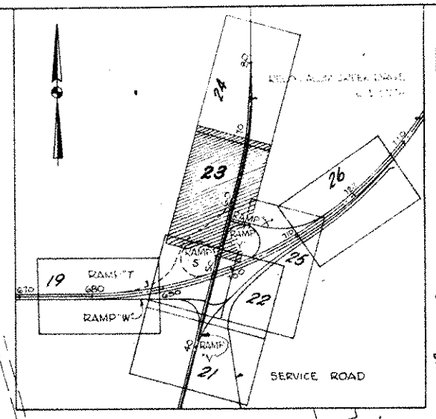
LIMITED ACCESS

CORPORATION OF OBETZ

All Deeds, Easements, Stationing, and Offsets are Described from the ℄ of Construction.
Tie Between ℄ Construction and Existing ℄ Shown on the Center Line Survey Plat
For Stegner Street detail see sht. 27.

NOTE
Bureau of Public Roads will Participate in the acquisition of the Land & Buildings, but will not Participate in the Damages to the Land due to Limited Access North of Sta 62+08.

CURVE DATA
P.I. STA 68+97.47
Δ = 15° 02' 44"
D = 4° 00'
R = 1,432.39
T = 189.16
L = 376.14



Area Relinquished to Franklin County J.E. Dated May 5, 1971, VO 56, Pages 996

Stegner St. detail See Sheet 27

To Stegner Street See Sheet 27

EAST RUN

JESS A. OWENS & ANNELIESE OWENS

GILBERT F. DUNLAP & BERTIE E. DUNLAP

HOWARD CROSBY

EARL L. FOX & BERTHA E. FOX

William H. Burton & Hazel Burton

PATSY J. ALLOY

CLAUDIUS H. BAKER & HAZEL F. BAKER

MADISON TOWNSHIP

SUSAN SAMSON, RALPH G. SAMSON & GERALDINE PEMBERTON

Vonice A. Walker

Billie Fox & Bonnie Fox

Cabin Workmen & Lucille Workman

HOWARD ROAD

STEGNER ROAD

ALUM CREEK DRIVE

ALUM CREEK

STATE OF OHIO (NORTH)

FUTURE RAMP "S"

FUTURE RAMP "T"

Total Distance 824.48

Landlocked Residue 1.34 Ac.

Construction Limit

Future R/W

Existing R/W

Limit of Participation of B.P.R. Funds. For Limited Access See Note Above.

Begin B.P.R. Participation

End B.P.R. Fence Participation

Relocate A.C. Dr. & Conns. Sta 3+21.38

Relocate A.C. Dr. & Conns. Sta. 3+56.98

Relocate A.C. Dr. & Conns. Sta. 3+83.63

Relocate A.C. Dr. & Conns. Sta. 4+35.67

Relocate A.C. Dr. & Conns. Sta. 5+37.63

Relocate A.C. Dr. & Conns. Sta. 5+58.98

Relocate A.C. Dr. & Conns. Sta. 6+97.47

Relocate A.C. Dr. & Conns. Sta. 7+28.00

Relocate A.C. Dr. & Conns. Sta. 7+51.00

Relocate A.C. Dr. & Conns. Sta. 7+57.00

I. FUNDS

COMPLETION DATE MARCH 28, 1966. SCALE 1"=50'

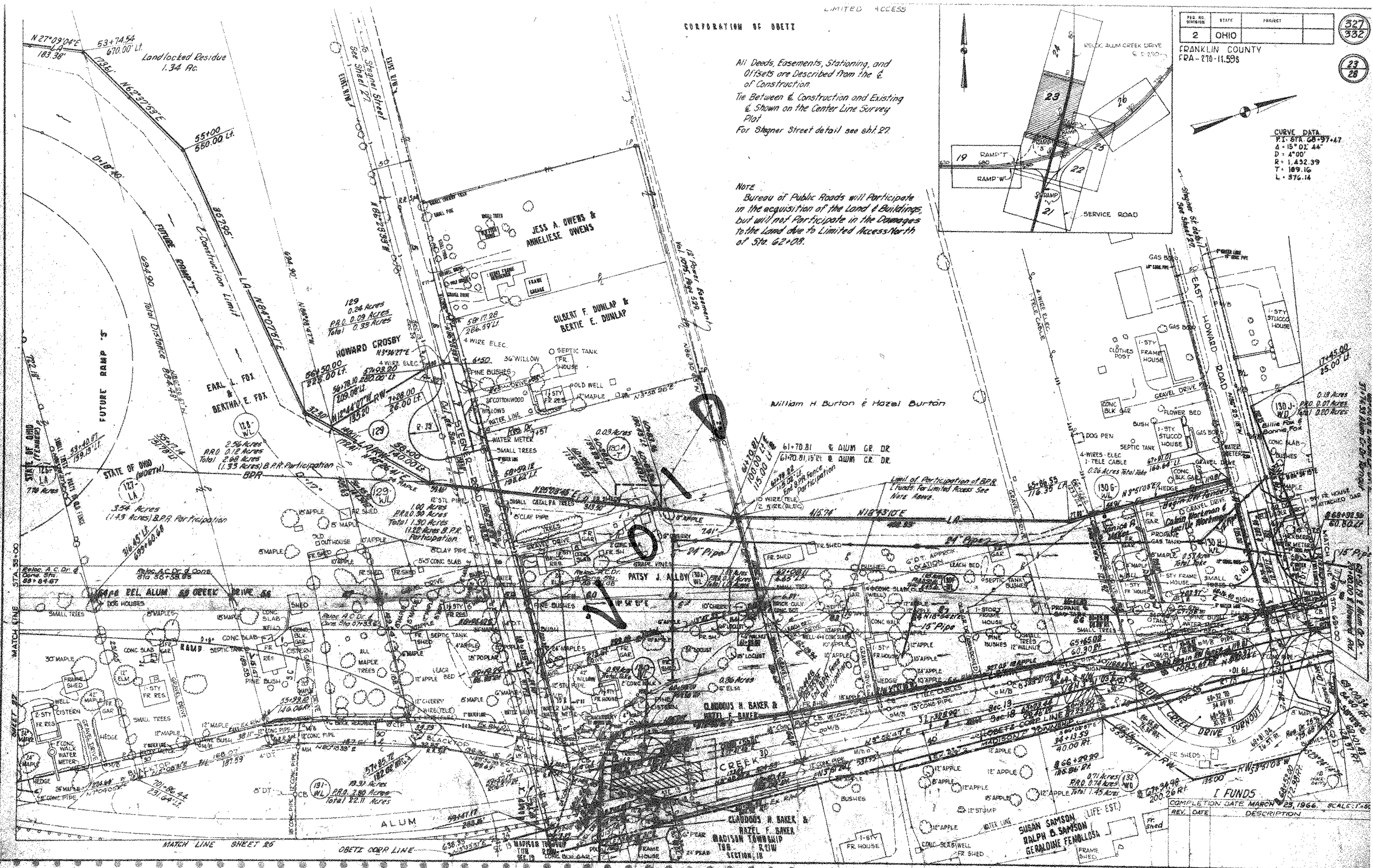
REV.	DATE	DESCRIPTION
	5-2-72	Added Areas Relinquished

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY
FRA-270-11.59S

327
332

23
28



All Deeds, Easements, Stationing, and Offsets are Described from the ℄ of Construction.

Tie Between ℄ Construction and Existing ℄ Shown on the Center Line Survey Plat

For Stegner Street detail see sht. 27.

NOTE

Bureau of Public Roads will Participate in the acquisition of the Land & Buildings, but will not Participate in the Damages to the Land due to Limited Access North of Sta. 62+08.

CURVE DATA
P.I. STA. 68+97.47
Δ = 15°02'44"
D = 4°00'
R = 1,432.39
T = 189.16
L = 376.14

COMPLETION DATE MARCH 25, 1966. SCALE: 1"=5

REV.	DATE	DESCRIPTION

R/W PLANS ALUM CREEK DRIVE INTERCHANGE ACD STA. 58+00 TO 68+00

LIMITED ACCESS

FED. RD DIVISION	STATE	PROJECT	
2	OHIO		

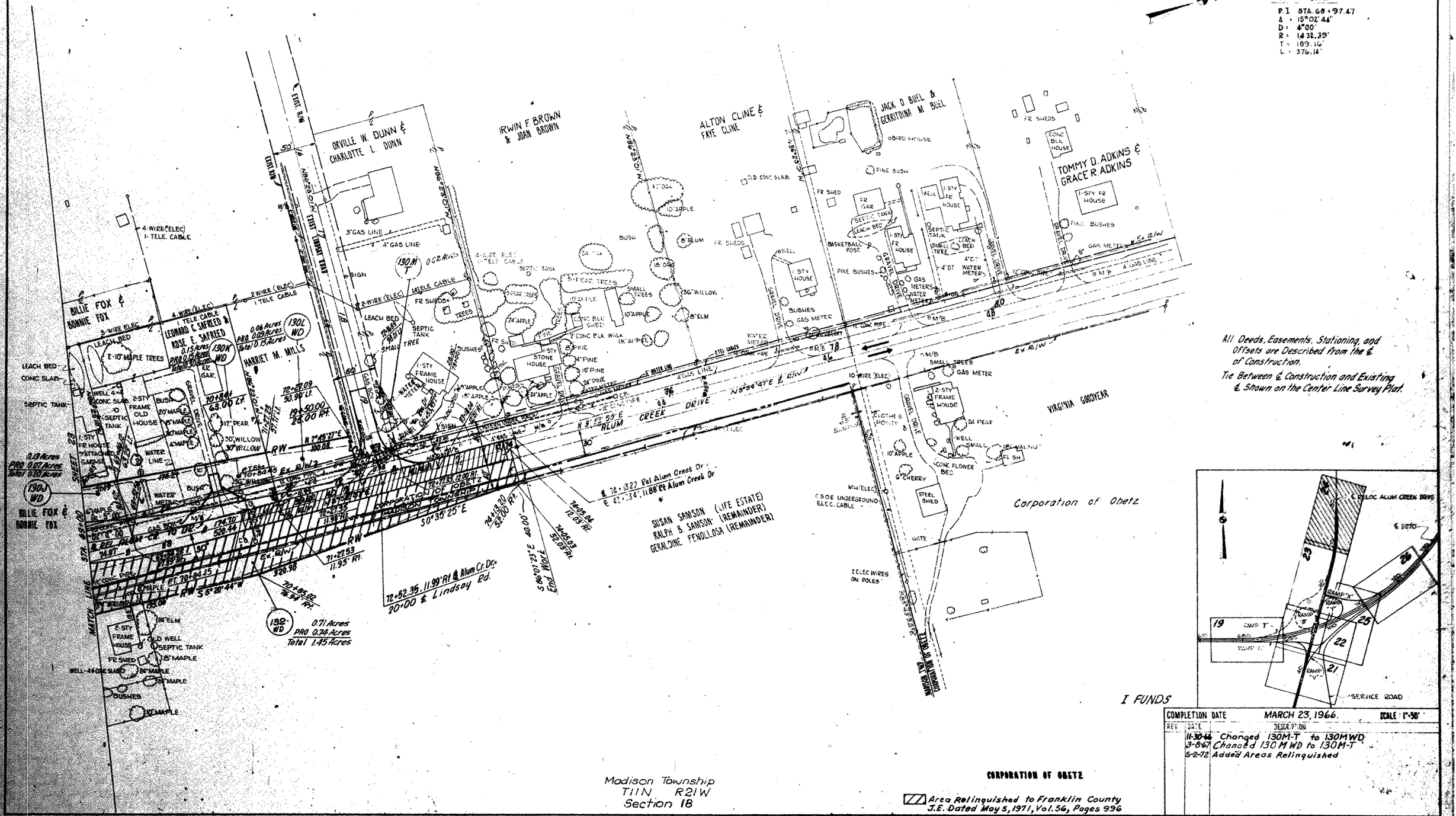
328/332

FRANKLIN COUNTY
FRA-270-11.595

24/28

CORPORATION OF OBETZ

CURVE DATA
P.I. STA. 68+97.47
Δ = 15°02'44"
D = 4°00'
R = 1432.39'
T = 189.16'
L = 376.14'



All Deeds, Easements, Stationing, and Offsets are Described From the ℄ of Construction.

Tie Between ℄ Construction and Existing ℄ Shown on the Center Line Survey Plat.

I FUNDS

CORPORATION OF OBETZ

Area Relinquished to Franklin County J.E. Dated May 5, 1971, Vol. 56, Pages 996

COMPLETION DATE MARCH 23, 1966. SCALE 1"=50'

REV.	DATE	DESCRIPTION
	11-30-66	Changed 130M-T to 130M WD
	3-8-67	Changed 130 M WD to 130M-T
	5-2-72	Added Areas Relinquished

R/W PLANS ALUM CREEK DRIVE INTERCHANGE—ACD STA 69+00 TO 81+00

LIMITED ACCESS

FED. AID DIVISION	STATE	PROJECT	
2	OHIO		

328
332

FRANKLIN COUNTY
FRA-270-11.59S

M 16

CORPORATION OF OBETZ

CURVE DATA
P.I. STA. 68+97.67
Δ = 15°02'44"
D = 4°00'
R = 1431.29'
T = 189.16'
L = 376.14'

OKVILLE W. DUNN & CHARLOTTE L. DUNN

IRWIN F. BROWN & JEAN BROWN

ALTON CLINE & FAYE CLINE

JACK D. BUEL & GERALDINE M. BUEL

TOMMY D. ADKINS & GRACE R. ADKINS

BILLIE FOX & BONNIE FOX

LEONARD E. SAFFOLD & ROSE E. SAFFOLD

HARRIET M. MILLS

SUSAN SAMSON (LIFE ESTATE)
RALPH G. SAMSON (REMAINDER)
GERALDINE FEWELLOSK (REMAINDER)

VIRGINIA GOODYEAR

Corporation of Obetz

All Deeds, Easements, Stationing, and Offsets are Described From the ℄ of Construction.

Tie Between ℄ Construction and Existing ℄ Shown on the Center Line Survey Plat

I FUNDS

Madison Township
T11N R21W
Section 18

CORPORATION OF OBETZ

COMPLETION DATE	MARCH 23, 1966.	SCALE: 1"=50'
REV.	DATE	DESCRIPTION

CORPORATION OF OBETZ

LIMITED ACCESS FRANKLIN COUNTY
FRA-270-11.55N

MATCH LINE SHEET 22

MATCH LINE STA 701+00

MATCH LINE SHEET 23

RAMP "V"

SWAMP

TREES

Chord = 370.89
L/ARC = 545°39'35"W

450.08
S 33°51'30"W

FW

700+50
380.00 Rt.

114.49'

N 49°38'05"E

112.29'

OBETZ CORPORATION LINE
MADISON TWP

Sec. 24
Sec. 19

N 3°43'37"E

278.70'
184.21'

SAMSON FRONTAGE ROAD
CURVE DATA
P.I. = STA. 17+23.79
Δ = 27°58'13"
D = 4°30'
R = 1273.24'
T = 317.10'
L = 621.56'

703+00
280.00 Rt.

703+08.26
304.67 Rt.
Field Drive
+00, 90 Rt.

708+59.92
820.61 Rt.

709+52.08
915.71 Rt.

181-T1
0.06 Acres

704+80
270.00 Rt.

SAMSON 12

S 45°20'11"E
127.51'

FRONT PSE

Courthouse Line Rt.

BOARD

N 49°38'05"E
L/ARC
1273.24'

701+94.46
256.41'

89°01' to N.E. Corner Section 24
257.65'

EAST

703+50
112.29'

16

P.I. 280.24
Short = 2.50'

703+50
112.29'

16

TS 100
N 32°58'50"E
100.00'

N 32°21'35"E

N 20°25'26"E
T's
706.98'

Ex. Bldg.
Fr. Barn
Field Drive

N 3°43'37"E
Total 969.69'

703+00 ℄
284.46' Lt.

WEST

SC
704+98.57

RAMP "V"

P.T.
704+47.10

704+38.54
191.88' Rt.

S 45°32'12"E

TREES

BOARD

700+00

LANES

700+00

701+47.00

TREES

TREES

12"V 3-6"
WILLOW TREES

181
4.91 Acres

SMALL TREES

BOARD

700+00

LANES

708+00

709+00

710+00

SHEET 26

MATCH LINE

STA 711+00

709+50.43
188.06
Ch. 706.46'
S 88°15'37"E
DC 2°00'
R = 2864.79'

710+00
265.00 Rt.

S 52°05'37"W

CURVE DATA
P.I. STA. 23+15.00
Δ = 16°14'41"
D = 2°00'
R = 2,864.79'
T = 357.96'
L = 712.24'

18.91 Acres
PRO. 2.80 Acres
Total 21.71 Acres

181 WL
CLAUDIUS H. BAKER &
HAZEL FERNE BAKER

CURVE DATA
P.C. STA. 709+65.00
Δ = 38°19'47"
D = 1°00'00"
R = 5712.96'
L = 3824.50'
T = 1961.35'
E = 1868.57'

709+65.00

638.33'
711.81'

SEC. 19

SEC. 24

G-25 CONC SLAB

OPEN DITCH

18" STL. PIPE

Fr. Bldg.
FIELD DRIVE

N 9°46'18"E

G-15 CONC SLAB

24" PIPE

U.P. PIPE

Fr. Bldg.

Fr. Bldg.

Fr. Bldg.

Fr. Bldg.

329
332

25
78

P.C.
707+50

707+40
583.00 Lt.

707+40
583.00 Lt.

181
T1

0.11 Acres

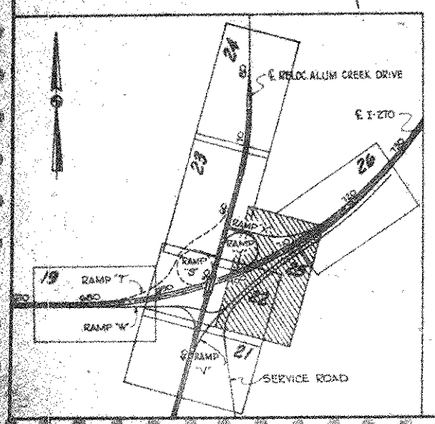
710+00
340.00 Lt.

FRA-270-1491 LI
18" Culvert 710+40

THE HOME MISSIONS BOARD
OF THE OHIO CONFERENCE A.M.E.
ZION CHURCH

CLAUDIUS H. BAKER & HAZEL FERNE BAKER

MADISON TOWNSHIP
T1N R21W
SECTION 19



All Deeds, Easements, Stationing and Offsets are Described from the ℄ of Construction.

Tie Between ℄ Construction and Existing ℄ Shown on the Center Line Survey Plat.

I FUNDS

COMPLETION DATE MARCH 23, 1966.		SCALE 1"=50'
REV	DATE	DESCRIPTION

R/W FRANKLIN-ALUM CREEK DRIVE INTERCHANGE ℄ I-270 STA 701+00 TO 711+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

330
332

FRANKLIN COUNTY
FRA 270-11.59S

26
28

LIMITED ACCESS

MADISON TOWNSHIP
T1N R21W
SECTION 18

SUSAN SAMSON (LIFE ESTATE)
RALPH B. SAMSON (REMAINDER)
GERALDINE FENOLLOSA (REMAINDER)

IR-270
CURVE DATA
P.I. STA. 709+66.90
Δ = 56°14'42" Lt.
D = 1°00'00"
R = 5729.58'
L = 5624.50'
T = 3062.80'
E = 766.97'

END PROJECT FRA-270-11.59 S
BEGIN PROJECT FRA-270-15.19 S

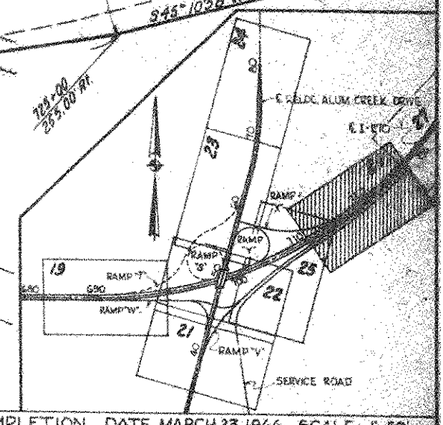
12" OSAGE
SEC. 18
SEC. 19
1-24" & 1-48" ASH TREES
12" OSAGE
715+57.16
209.29 Lt.
718+00
200.00 Lt.
720+00
180.00 Lt.
3-12" & 2-6" OSAGE TREES
36" ASH
194.50' N57°07'30"E
484.68'
LA N51°24'26"E
291.24'
125+00
170.00 Lt.
15" WALNUT
2'
End Fence
168.00' Lt.
15" WALNUT
S42°26'26"E
214.58'
N69°39'51"E
712+00
240.00 Lt.
714+00
210.00 Lt.
LA N68°35'58"E
194.46
N58°12'39"E
284.37'
N68°12'39"E
131.37'
℄ Construction Limit
Dc: 8°00'
RAMP "X"
PCC 713+17.49
714
Dc: 2°30'
716
PCC 716+60.00
48" ELM STUMP
18.83 Acres
(5.31 Acres IG Incl)
132-W/L
S26°40'52"E
313.30'
BUSH
8-12" OSAGE
6"-12" OSAGE
723+00
724+00
725+00
FRA-270-15.18
60"-Culvert 724+50
726+00
GATE
728+00
721+00
720+00
719+00
718+00
717+00
716+00
715+00
714+00
713+00
712+00
Dc: 1°00'
FRA-270-15.06
42"-Culvert 718+00
12" OSAGE
Construction Limit
END WORK
STA. 726+00
End Fence
155.48 Rt.
725+00
57.48' Rt.
725+00
170.59 Rt.
PC Sta. 96+44.73
S45°10'58"W
426.70'
S45°45'34"W
423.45'
LA/RW
D=1°00'
SHEET 27
STA. 727+00
MATCH LINE
SHEET 25
STA. 711+00
MATCH LINE
℄ Sta. T-270 718+34.36
38°56'11"
SEC. 18
SEC. 19
221.93'
877.20'
48" ELM
2-12" & 1-6" OSAGE TREES
12" OSAGE
30" ELM
30" OSAGE
POT HOLE APPROX. LOCATION
Type 47 RW Fence
609.82'
8" BOX ELDER
30" ELM
4.13 Acres
(132-E)
861°29'01"W
35°58.84
725+00
57.48' Rt.
725+00
170.59 Rt.
723+00
253.00' Rt.
S45°10'58"W
426.70'
RW
(131) CLAUDOUS H. BAKER & HAZEL FERN BAKER
19.31 Acres
PRO 2.80 Acres
Total 22.11 Acres
RAMP "Y"
TREES & SCRUBS
15" Pipe
716+35.68
240.00 Rt.
382.41'
N21°06'10"E
LA/RW
RGT-06.10'E
4.91 Acres
(131)
N58°18'31"E
℄ SAMSON FRONTAGE ROAD
Construction Limit
962.09'
RW
S51°06'08"W
Dc: 1°
Ch: 706.44'
R: 2,849.79'
24" Culvert
22+16
709.69'
S63°06'39"W
SMALL TREES
RAMP & SCRUBS
PRO 538°43'35"W
118.76'
712+00
240.00 Lt.
716+00
270.00 Rt.
716+50
250.00 Rt.
716+00
215.00 Rt.
724+00
264.42' Rt.
S45°40'49"W
724+86.78
264.42' Rt.
S45°40'49"W
529.33'
RW S49°40'42"W
389.75'
132.58'
S45°40'49"W
75.87'
(131D) 0.15 Acre
Edge of Water
Top of Bank
SEC. 18
SEC. 19
N35°49'37"E
719+70.70
264.15' Rt.
724+00
240.00 Rt.
MARY E. CLICKINGER
CLAUDOUS H. BAKER & HAZEL FERN BAKER
MADISON TOWNSHIP
T1N R21W
SECTION 18

SAMSON FRONTAGE ROAD
CURVE DATA
P.I. STA. 23+18.00
Δ = 14°14'41"
D = 2°00
R = 2,864.79
T = 357.96
L = 712.24

All Deeds, Easements, Stationing, and Offsets are Described from the ℄ of Construction.

Tie Between ℄ Construction and Existing ℄ Shown on the Center Line Survey Plat.

I FUNDS



COMPLETION DATE MARCH 23, 1966. SCALE 1"=50'

REV.	DATE	DESCRIPTION

RW ROAD ALUM CREEK DRIVE INTERCHANGE I-270 STATIONING TO 726+00

FED. AID DIVISION	STATE	PROJECT	
2	OHIO		

33/332

FRANKLIN COUNTY
FRA-270-11.595

MADISON TOWNSHIP
T11N R21W
SECTION 15

27/28

SUSPEND I SECTION | BEGIN IG SECTION 730+00

I 270 CURVE DATA
P.I. STA. 709+66.903
Δ = 58° 14' 46" LT.
D = 1° 00' 00"
R = 5729.578'
L = 5824.693'
T = 3082.22'
E = 767.122'

291.24' N47°12'34"E
388.18' N41°15'04"E
74760' N35°35'37"E
LA
Construction Limit
728+00 165.00' Lt
732+00 175.00' Lt
739+57.43 208.61' Lt
740+00 210.00' Lt
PT. 735+93.200
PC 741+35.10
PT 744+39.88

132 WL — 18.83 Acres, 9.68 Acres 16 Funds, 9.15 Acres I Funds
RALPH B. SAMSON
GERALDINE FENOLLOSA
SUSAN SAMSON, LIFE ESTATE

WALNUT TO MARION RD
40 KV DOUBLE CIRCUIT TRANS
LINE TWO EASEMENTS
COLUMBUS & SOUTHERN OHIO
ELEC. CO. EASEMENT
133 WL
VIRGINIA GOODYEAR
CORA L. TAYLOR
MADISON TOWNSHIP
OBETZ CORPORATION
6300± To Tower Area E.

WEST BOUND LANES — I-270
EAST BOUND LANES — I-270
Median Crossover 736+70
℄ I-270
N 37°26'03"E
728+00 729+00 730+00 731+00 732+00 733+00 734+00 735+00 736+00 737+00 738+00 739+00 740+00 741+00 742+00 743+00

End R/W Acquisition
FRA-270-11.595
I-IG-270-4(2)102
Sta. 740+93.73

Begin R/W Acquisition
FRA-270-16.19S
Sta. 740+93.73

463.34' LA/RW S45°42'43"W
626.70' S45°10'58"W
361.40' S42°61'13"W
D=1°30'00"
SAMSON FRONTAGE ROAD
730+50.00 175.00' Rt
731+00 260.00
734+00.00 260.00' Rt
736+00.00 265.00' Rt
℄ N39°12'41"E
519.52' RW S39°50'19"W
888.56' S39°12'40"W
673.48' RW
(132-1) 4.8 Acres (2.04 Acres) IG Funds (2.09 Acres) I Funds
Construction Limit
RW
LA/RW
PC 63+35.10
742+43.88 E 1270.70, 859.88 S
PT 744+39.88
746+00 RP

I & IG FUNDS

0.07 Acres (124-X3) HERBERT REES TRAVIS
30+75 150.00 Lt
31+50 150.00 Lt
N18°54'21"E
30+75 101.05' Lt
31+50 102.99' Lt
S71°05'39"E 138.00 Ex. 136.00' Lt
91+24.95 102.99' Lt
84" CULVERT
GUARDRAIL
PHILLIPS PETROLEUM CO.
35+29.08 ℄ Rel Alum Creek Drive
9+72.70 ℄ Groveport Road-Ahead
139+55.51 ℄ Groveport Road-Back
428.62' N18°54'21"E
5' Construction Limit
PLUM 31 32 CREEK 33 DRIVE 34 35
N18°54'21"E
140
84" Culvert
31+74.30 Alum Creek Drive
S64°22'04"E
456.55' N19°37'18"E
GROVEPORT ROAD
Match M.H. Sheet 2
31+74.96 117.01 Rt
31+74.96 150.00 Rt
32+50 112.71' Rt
S18°54'20"W 25.04'
32+50 150.00' Rt
(124-X4) 0.06 Acres
2+78.60 Ex. ℄ Alum Creek Drive
10+00.00 ℄ Groveport Road
142+13.67 Ex. ℄ N. Bound
BOEHM COUNTY DITCH
HERBERT REES TRAVIS

I FUNDS

WATER TREATMENT PLANT & WELL FIELDS VILLAGE OF OBETZ
HOWARD CROSBY
SILAS & RUTH PETTY
BEGIN WORK ℄ PAY'T 0+98.50
STEGNER ROAD
5+00 Stegner Road = 0+90.63 Stegner Street
8+79.46 30.00' Lt
8+44.99 30.00' Lt
130P 0.98 Acres
8+44.99 30.00' Rt RES. DRIVE 0.8% 3+90, 30' RT.
8+79.42 30.00' Rt
130N 0.02 Acres 1+40.83 30.00' Lt
P.I. 3+60.85 Δ = 0°19'00" Rt.
N83°16'25"E 95.00'
N3°41'09"E
1+05.63 ℄
1+05.48 30.00' Rt
STEGNER 3 STREET
N03°41'09"E 261.33'
S03°41'09"W
NOTE: SEE PROPERTY MAPS FOR LOCATION OF STEGNER STREET SHEET 2
R.R. SPIKE
VILLAGE OF OBETZ
All Deeds, Easements, Stationing, and Offsets are Described from the ℄ of Construction.
Tie Between ℄ Construction and Existing ℄ Shown on the Center Line Survey Plat
8.0% RES. DRIVE 3+98.30' Lt.
3+79.44 ℄
LIMIT OF CONSTRUCTION ALONG R/W LIMITS UNLESS OTHERWISE NOTED
A20.94'
N8°58'09"E 95.00'
130F 0.58 Acres W.H. & HAZEL BURTON
PRIVY
420.58'
S8°58'09"W
6 STREET 7
N03°33'09"E
130C LOT 27 0.18 Acres 24.00' Rt
8+51.34 Howard Rd. 10+00 Stegner Street
S8°34'42"W 175.00'
130B 0.22 Acres
EDITH M. DRAKE LOT 28
N8°33'00"E 74.00'
S8°34'42"W 74.00' RP
BLOCK RES. LOT 30
BLOCK GAR.
GRAVEL DR.
BEGIN WORK 0+00
8+74.99 Stegner 24.91' Rt
8+76.84 300.00' Rt
8+74.99 Stegner 24.00' Rt
8+76.84 26.00' Rt
BELVA LARGE LOT 26
LOT 25
S8°34'42"W 175.00'
RES.
ACRES
M.S. FADYEN'S
HOWARD D.
N.W. COR. SEC. 15
S8°52'30"W 2640.00'

COMPLETION DATE March 23, 1966. Scale: 1"=50'
REV. | DATE | DESCRIPTION

I FUNDS

R/W PLAN STEGNER ST. & I.R. 270 737+08 - 742+08