DESIGN DESIGNATION

CURRENT ADT 17,150
DESIGN YR ADT 34,408 (1990)
DHV = 16%
D = 60%
T = 4%
V = 45MPH

MICROFILMED
NOV 1975
REPRODUCTION

MICROFILMED
APR 28 '89
REPRODUCTION

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
TRU-422-(14.70) (16.38)
HOWLAND & WEATHERSFIELD TOWNSHIPS
CITY OF NILES
TRUMBULL COUNTY
CITY OF WARREN

ISSUE Nº 1
F-522(27)
T-4005(6)

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	F-522(27) T-4005(6)	

TRU-422-(14.70)-(16.38)

1/216

CONVENTIONAL SIGNS

County Line
Township Line
Section Line
Corporation Line or
Fence Line (existing) (proposed) 352 353
Center Line
Trees, Stumps, (to be removed)
Utility Poles: Telephone, Power, Light

Right of Way (only) RW
Existing Right of Way
Property Line (in existing fence)
Railroad
Guardrail (existing) (proposed)

INDEX OF SHEETS

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NOTE: SHEET Nº 183 NOT USED

LINE DATA

PROJECT LIMITS

F-522(27)

STA. 776+39.98 To STA. 822+00.00 = 4560.02 L.F.
STA. 832+00.00 To STA. 844+07.50 = 1207.50 L.F.
STA. 864+77.43 To STA. 892+00.00 = 2722.57 L.F.
STA. 902+00.00 To STA. 919+32.38 = 1732.38 L.F.
LENGTH OF PROJECT = 10222.47 L.F.
OR 1.936 MILES

T-4005(6)

STA 822+00.00 To STA. 832+00.00 = 1,000.00 L.F.
STA 892+00.00 To STA 902+00.00 = 1,000.00 L.F.
2,000.00 L.F.
OR 0.378 MILES

GRAND TOTAL LENGTH OF PROJECT F&T = 12,222.47 L.F. OR 2.314 MILES

WORK LIMITS F-522(27)

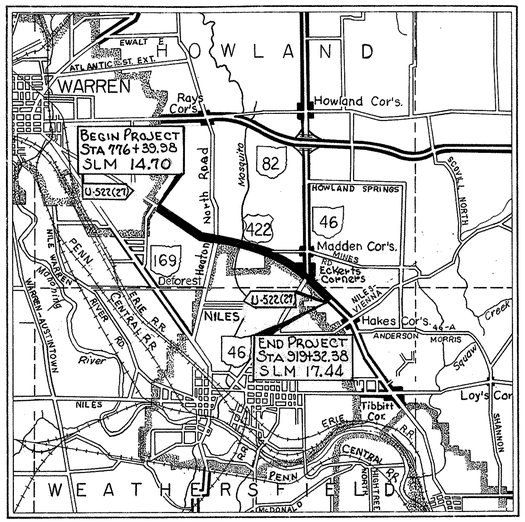
Municipal (Warren) 773+63.00-774+57.60 = 94.60 L.F.
Rural Sta. 774+57.60 To Sta. 776+39.98 = 182.38 L.F.
Sta. 844+07.50 To Sta. 846+88.00 = 280.50 L.F.
Sta. 863+81.00 To Sta. 864+77.43 = 96.43 L.F.
Sta. 919+32.38 To Sta. 923+17.38 = 385.00 L.F.

FREDERICK ST.
STA. 8+33.00 To STA. 14+69.97 = 636.97 L.F.
STA. 15+30.36 To STA. 16+94.00 = 163.64 L.F.
From Project Length 10,222.47 L.F.
Length of Work 12,061.99 L.F. or 2.284 Mi.

T-4005(6)

From Project Length 2,000.00 L.F.
HEATON NORTH RD.
STA. 4+00.00 To STA. 9+65.78 = 565.78 L.F.
STA. 10+46.23 To STA. 18+25.00 = 778.77 L.F.
S.R. 46
STA 286+70.00 To STA 295+95.27 = 925.27 L.F.
STA 296+86.46 To STA 307+80.00 = 1093.54 L.F.
5, 63.36 L.F. or 1.015 Mi.

GRAND TOTAL LENGTH OF WORK F&T 17,425.35 L.F. OR 3.300 MILES



LOCATION MAP

SCALE OF MILES
0 1 2 3 4

Portion to be improved
State Roads
Other Roads

SCALES

Plan 0 5 10 20 40
Profile: Horizontal 0 5 10 20 40
Profile: Vertical 0 1 2 4

1971 SPECIFICATIONS

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

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

I hereby approve these plans and declare that the making of this improvement will not require the closing to traffic of the highway and that provisions for the maintenance and safety of traffic will be as set forth in the plans and estimates.

Approved Francis V. Fischer
Date 9-22-71 Division Deputy Director

Approved C. D. Schaeter
Date 10-27-71 Engineer of Bridges

Approved E. J. Schaefer
Date 10-27-71 Engineer of Location & Design

Approved H. L. Krauser
Date 10/27/71 Deputy Director of Design & Construction

Approved R. M. Beasleigh
Date 11/1/71 Deputy Director of Right of Way

Approved William Buckley
Date 11-1-71 Deputy Director of Planning & Programming

Approved William P. McKenna
Date 11-1-71 First Assistant Director

Approved Phillip Richley
Date 11-1-71 Director of Highways

SUPPLEMENTAL PRINTS OF STANDARD CONSTRUCTION DRAWINGS						
BP-5	1-1-71			DBR-1-71	1-1-71	
BP-6	6-1-65	GR-3	1-1-71	BR-2-67	1-1-71	
BP-7	1-1-66	GR-4	1-1-71	BP-3	1-1-71	
MC-1	6-18-69	GR-2B	1-1-71			
CB-2-2A&B	6-1-65					
		L-1	6-1-65			
CB-2-3 & 2-4	6-1-65	HW-4	1-1-70			
CB-3	6-1-65	MC-3	6-20-69			
CB-3A	6-1-65	MC-4	6-18-69			
CB-6	6-1-65	FAC 1-1	4-20-71			
I-2A	6-6-69	FAC 1-2	4-20-71			
MH-1	10-1-68					
MH-1A	10-1-68	AS-1-67	6-12-69			

SUPPLEMENTAL SPECIFICATIONS	
814	1-1-69
815	1-1-69
816	1-1-69
941	11-25-70
1001	1-1-69
808	1-1-71
836	1-1-71

DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
BUREAU OF PUBLIC ROADS
APPROVED:

DIVISION ENGINEER DATE

Project: TRU-422-(14.70) (16.38)
Date of Letting 19 , Contract No.

SEAL

LD 0300
12-29-67

TITLE SHEET

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

2 / 216

TRU-422-(14.70)-(16.38)

MICROFILMED
APR 16 1979
REPRODUCTION

* Location of FACI signs
Sta. 773+75 (RT.) U.S. 422
Sta. 924+00 (LT.) U.S. 422
Sta. 286+75 (RT.) S.R. 46
Sta. 307+00 (LT.) S.R. 46

CURVE DATA
P.I. STA. 817+29.87

Δ = 27°-37' Lt.		θ_s = 4°-00'	
D_c = 2°-40'		P = 1.74'	
R = 2148.59'		k = 149.97'	
T_s = 678.47'		X_c = 299.84'	
E_s = 65.73'		Y_c = 6.98'	
Δ_c = 19°-37'		L.T. = 200.04'	
L_c = 735.69'		S.T. = 100.04'	
L_s = 300.00'		L.C. 299.93'	

BEGIN WORK STA 773+63

CITY OF WARREN

CORP. LINE

N 44°-00'-30" E

N 44°-07'-30" E

END WORK STA. 0+57.32

END WORK STA. 0+57.04

℄ ROSEWAY AVE. STA. 0+00
U.S.R. 422 STA. 782+68.56

HOWLAND TOWNSHIP

775 780 785 790 795 800 805 810 815 820 825 830 835

S 46°-29'-30" E

T.S. 810+51.40

S.C. 813+51.40

C.S. 820+87.09

S.T. 823+87.09

℄ WESTOVER DR. STA. 0+00
U.S.R. 422 STA. 776+76.38

774+57.60

BEGIN PROJECT
STA. 776+39.98
S.L.M. 14.70

F-522 (27)

END WORK STA. 0+60.98

N 42°-05'-E

NOTE: FOR RELATIONSHIP OF ℄ SURVEY WITH ℄ CONSTRUCTION STA. 835+00 TO STA. 845+00 SEE SHEET Nos. 28, 29 AND 30.

Suspend Work
Sta. 846+88

SUSPEND PROJECT
STA. 844+07.50
S.L.M. 16.02

CITY OF NILES

HOWLAND TOWNSHIP

MALL ENTRANCE

MINES RD.

N 35°-36'E

℄ MALL ENTRANCE
U.S.R. 422 STA. 863+53.75

STA. 840+20.00
STRUCTURE TRU-422-1590

℄ CONST.

℄ SURVEY SEE NOTE

840 845 850 855 860 865 870 875 880 885 890 895 900

MOSQUITO CREEK

℄ PARK DR.
U.S.R. 422
STA. 844+45

S 7°-46'-20" W

STA. 848+53
STRUCTURE TRU-422-1607

℄ VALLEY BLVD.

℄ GYPSY LANE
U.S.R. 422 STA. 862+44.03

CURVE DATA
P.I. STA. 844+93.94
Δ = 20°-02'-30" Rt.
D = 0°-30'
R = 11,459.16'
T = 2,024.85'
L = 4,008.34'
E = 177.46'

Resume Work
Sta. 863+81

P.T. 864+77.43

RESUME PROJECT
STA. 864+77.43
S.L.M. 16.38

S 54°-04' E

T.S. 876+19.41

S.C. 878+19.41

C.S. 882+72.74

S.T. 884+72.74

N 52°-16' E

CITY OF NILES

CORP. LINE

END WORK STA. 16+94

JOHNNY CAKE RD.

℄ JOHNNY CAKE RD
℄ FREDERICK ST. STA 15+00
U.S.R. 422 885+40.17

TO FREDERICK ST.

Resume Work
Sta. 296+86.40

S 37°-44' E

F-522 (27) T-4005 (6)

STA. 892+00

BEGIN WORK STA. 8+33

Suspend Work
Sta. 295+95.27

℄ SURVEY
P.I. STA. 894+87.92
Δ = 0°-21'-00" Rt.

S 37°-23' E

℄ SR 46 STA. 296+28.13
U.S.R. 422 STA. 894+87.92

MATCH LINE STA. 900+00

CURVE DATA
P.I. STA. 906+57.05
Δ = 0°-20'-00" Lt.
D = 0°-10'
R = 34,377.48'
T = 100.00'
L = 200.00'
E = 0.15'

CITY OF NILES

T-4005 (6) F-522 (27)

STA. 900+00

P.C. 905+57.05

P.T. 907+57.05

TWP. LINE

TWP. TWP.

905 910 915 920 925

S 37°-23' E

S 37°-43' E

S 37°-47' E

HOWLAND WEATHERSFIELD

WEATHERSFIELD TWP.

CORP. LINE

℄ SURVEY
DEFL. STA. 922+92.38
Δ = 0°-04'-00" Lt.

END WORK STA. 923+17.38

END PROJECT
STA. 919+32.38
S.L.M. 17.44

F-522 (27)

0 100 200 400 600
SCALE IN FEET

CURVE DATA
P.I. STA. 880+48.40

Δ = 16°-20' Rt.		θ_s = 2°-30'	
D_c = 2°-30'		p = 0.73'	
R = 2291.83'		k = 99.99'	
T_s = 428.99'		X_c = 199.96'	
E_s = 24.21'		Y_c = 2.91'	
Δ_c = 11°-20'		L.T. = 133.35'	
L_c = 453.33'		S.T. = 66.68'	
L_s = 200.00'		L.C. = 199.98'	

BEGIN WORK STA. 286+70

SR 46 N 39°-28' E

290 295 300 305

N 9°-45'-30" E

END WORK STA. 307+80

CORP. LINE

CITY OF NILES

MATCH LINE STA. 900+00

SCHEMATIC LAYOUT PLAN

LINE SHEET

	BY	DATE	CHECKED BY	DATE
SURVEYED	W.C.H.	8/71		
PLOTTED	W.C.H.	8/71		
INKED	W.C.H.	8/71		
DESIGNED	W.C.H.	8/71		
QUANTITIES				

Field Book No T-808

FED. RD. DIVISION		PROJECT -	
2	OHIO		

TRU-422-(14.70)-(16.38)

3 / 2.16

TYPICAL SECTIONS

TYPE 404

SCALE 0 ½' 1' 2' 3' 4' 5' 10'

UTILITIES

Ohio Edison Co.
47 N. Main St.
AKron, Ohio 44308

Ohio Bell Telephone Co.
2405 Market St.
Youngstown, Ohio 44507

United Telephone Co.
220 S. Park Ave.
Warren, Ohio 44482

Niles Light & Water Dept.
City Bldg.
Niles, Ohio

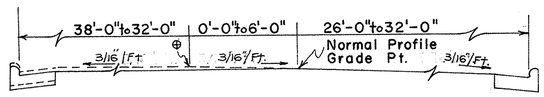
City of Warren Water Dept.
411 Mahoning Ave. N.W.
P.O. Box 670
Warren, Ohio

East Ohio Gas Co.
Boardman & Champion St.
Youngstown

Trumbull County
Sanitation Dept.
Warren, Ohio

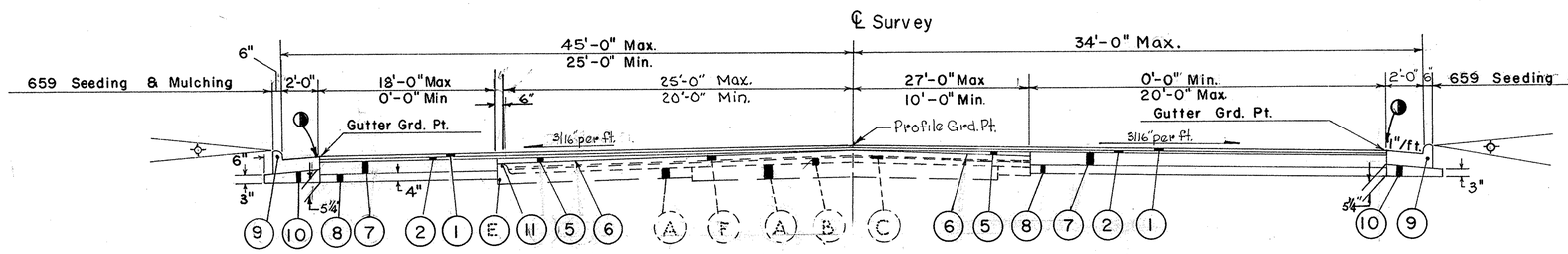
City of Warren
Sanitation Dept.

City of Niles
Sanitation Dept.

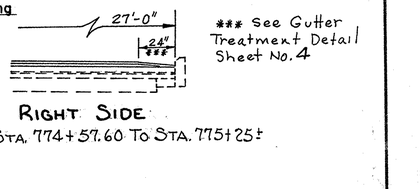


CENTERLINE TRANSITION

⊕ Profile Grade Point Through Centerline Transition Across Bridge (See Table For Limiting Stations)



TYPICAL SECTION "A"



*** See Gutter Treatment Detail Sheet No. 4

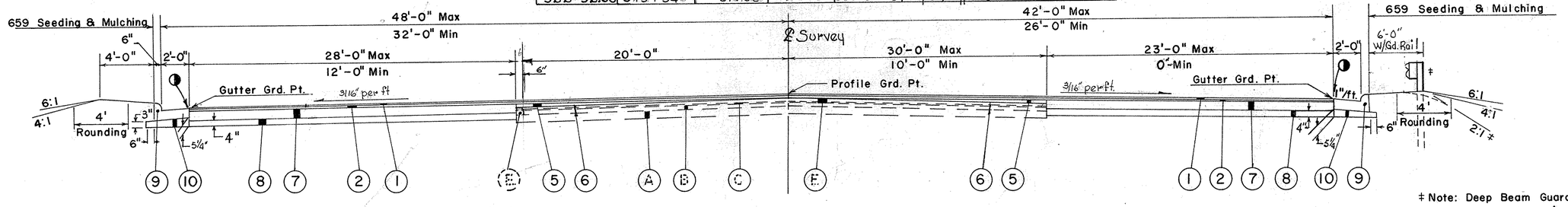
RIGHT SIDE
STA. 774+57.60 TO STA. 775+25±

STATION FROM	STATION TO	LIN. FT.	WIDTH LEFT	WIDTH RIGHT	DESCRIPTION
774+57.60	776+39.98	182.38	25'-0"-32'-0"		Feather & Left Side Taper
774+57.60	776+03	145.40	25'-0"-32'-0"	27'-0"	See Detail Right
776+03	776+39.98	36.98		32'-0"	
776+39.98	810+51.40	3411.42	32'-0"	32'-0"	
863+81	864+31	50.00	VAR.		Mines Rd. Intersection
864+31	874+69.41	1038.41	42'-0"		
874+69.41	874+84	14.59	42.00-41.97		
864+69	874+84	1015.00		32'-0"	
889+63	893+55.13	392.13	34'-0"		
889+63	894+27.02	464.02		34'-0"	
893+55.13	895+16.18	161.05	34'-0"-45'-0"		Intersection
894+27.02	895+67.91	140.89		34'-0"-26'-0"	Intersection
895+16.18	900+30	513.82	45'-0"-40'-0"		
900+30	901+80	150.00	40'-0"-32'-0"		Taper
895+67.91	900+30	462.09		26'-0"-32'-0"	
900+30	901+80	150.00		32'-0"	
901+80	919+32.38	1752.38	32'-0"	32'-0"	
919+32.38	920+48	115.62	32'-0"-28'-1¾"		Taper, Type 6 Curb
922+92.38	919+94	61.62'		32'-0"-29'-11½"	Taper, Type 6 Curb

PROPOSED PAVEMENT LEGEND

1	404	1¼" Asphalt Concrete (60-70)	
2	402	1¼" Asphalt Concrete (60-70)	
3	301	2" Bituminous Aggregate Base 702.01(85-100); or 702.09, RT-11 or RT-12	
4	301	Variable Depth Bituminous Aggregate Base 702.01 (85-100); or 702.09, RT-11 or RT-12	
5	403	0" Min. Asphalt Concrete (60-70) (See Note in Proposal)	
6	407	Tack Coat, 702.04, MS-2 or RS-1; or 702.02, RC-70 or RC-250 applied @ 0.1 Gal/Sq.Yd.	
7	301	8" Bituminous Aggregate Base 702.01(85-100); or 702.09, RT-11 or RT-12	
8	310	4" Subbase, Regular Grading	
9	609	Standard Type 2 Combination Curb & Gutter	
10	310	Subbase, Depth as shown	
11	202	Curb Removal (See General Note)	

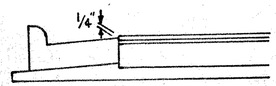
⌖ See Sheet No. 4 for Berm Treatment
See Sheet No. 4 for Existing Pavement Legend



TYPICAL SECTION "B"

‡ Note: Deep Beam Guard Rail with 2:1 slope flare in at Bridge Approaches to meet Bridge Railing.

◑ Note: Pavement to be finished ¼" above gutterplate.



STATION FROM	STATION TO	LIN. FT.	WIDTH LEFT	WIDTH RIGHT	DESCRIPTION
823+87.09	826+31.00	243.91	36'-0"		
823+87.09	826+37.98	250.89		36'-0"	
826+31	830+33	402.00	48'-0"		
826+37.98	829+00	262.02		26'-0"	
829+00	830+00	100.00		26'-0"-36'-0"	Taper
830+33	831+83	150.00	48'-0"-38'-0"		Taper
831+83	835+00	317.00	38'-0"		
830+00	832+54.20	254.20		36'-0"	
832+54.20	835+00	245.80		26'-0"	

STATION FROM	STATION TO	LIN. FT.	WIDTH LEFT	WIDTH RIGHT	DESCRIPTION
835+00	839+00	400.00	38'-0"-32'-0"	26'-0"-32'-0"	Centerline Transition
839+00	839+42.95	42.95	32'-0"	32'-0"	
839+42.95	840+97.05	154.10	—	—	Bridge and Approach Slabs
840+97.05	845+00	402.95	32'-0"-38'-0"	32'-0"-26'-0"	Centerline Transition
845+00	846+88	188.00	38'-0"	26'-0"-30'-0"	End Feather 846+88
886+08.15	889+63	354.85	32.48'-34.00'		
886+08.15	887+48.80	140.65		30.73'-37.68'	Transition For Turning Lane
887+48.80	888+42.39	93.59		37.68'-36.07'	Turning Lane
888+42.39	889+63	120.61		36.07'-34.00'	Shopping Center Drive

LINE SHEET	BY	DATE
SURVEYED		
PLOTTED		
INKED	RS	
DESIGNED	RLM	WCH
QUANTITIES	RLM	WCH
CHECKED BY		
DATE		

BRUNING 44-560 10943

TYPICAL SECTIONS

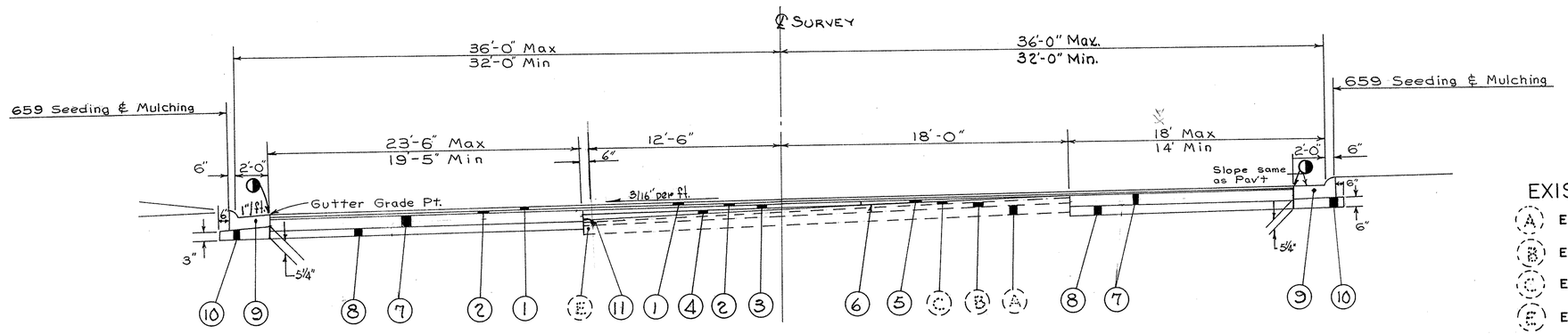
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

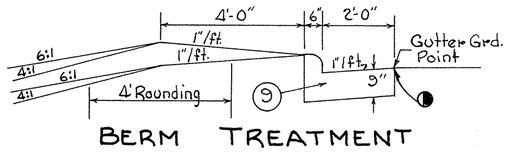
4 / 216

TRU-422-(14.70)-(16.38)

TYPICAL SECTIONS
TYPE 404

SCALE 0 ½ 1 5 10

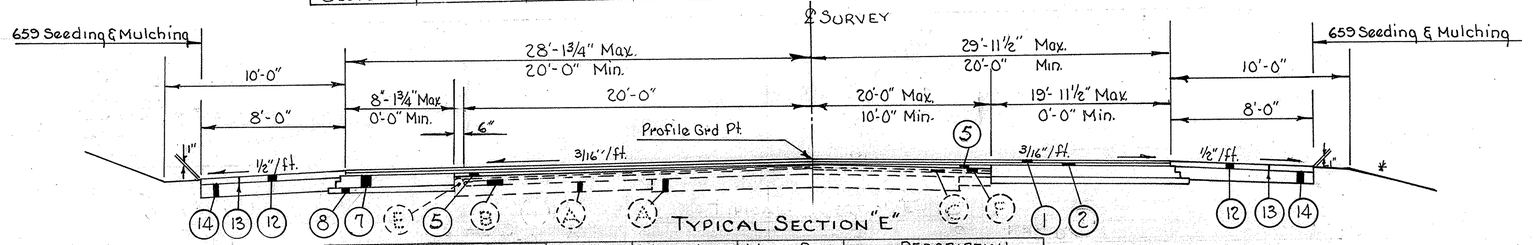




BERM TREATMENT

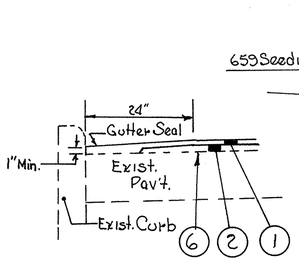
TYPICAL SECTION "C"

STATION FROM	STATION TO	LIN. FT.	WIDTH LEFT	WIDTH RIGHT	DESCRIPTION
810+51.40	813+51.40	300.00	32'-0"	32'-0"	Transition Crown to Superelevation
813+51.40	817+19.24	367.84	32'-0"	32'-0"	Superelevation
817+19.24	820+87.09	367.85	32'-0"-36'-0"	32'-0"-36'-0"	Superelevation
820+87.09	823+87.09	300.00	36'-0"	36'-0"	Transition Superelevation to Crown

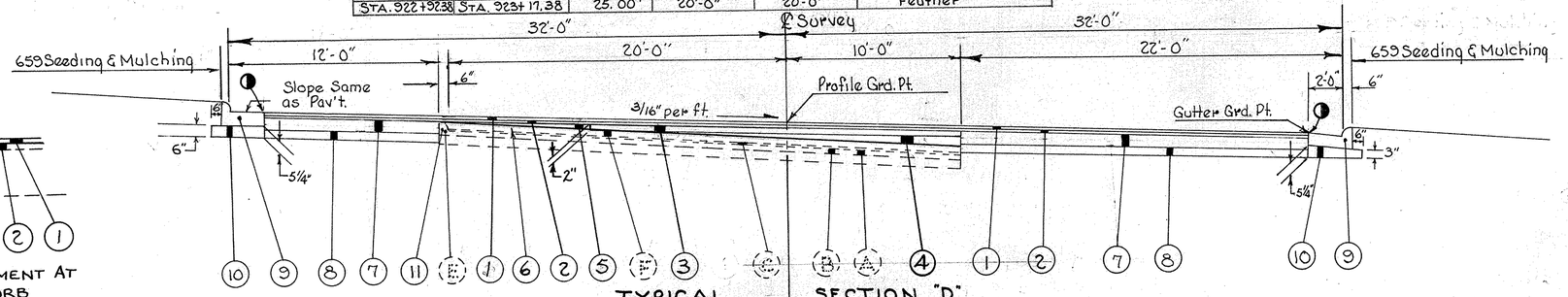


FROM	TO	LIN FT	WIDTH LEFT	WIDTH RIGHT	DESCRIPTION
STA. 820+48	STA. 822+92.38	244.38'	28'-1¾"-20'-0"		Taper
STA. 819+94	STA. 822+92.38	298.38'	29'-11½"-20'-0"		Taper
STA. 822+92.38	STA. 823+17.38	25.00'	20'-0"	20'-0"	Feather

* For Slope Treatment See Cross Sections



GUTTER TREATMENT AT EXISTING CURB



TYPICAL SECTION "D"

STATION FROM	STATION TO	LIN. FT.	WIDTH LEFT	WIDTH RIGHT	DESCRIPTION
874+84	876+19.41	135.41	41.97'-32.00'		Trans. Crown To Super
876+19.41	876+87	67.59	32.00		
874+84	876+87	203.00		32.00	Superelevation
876+87	884+05.15	718.15	32.00	32.00	

STATION FROM	STATION TO	LIN. FT.	WIDTH LEFT	WIDTH RIGHT	DESCRIPTION
884+05.15	884+96	90.85	32.00'	32.00'	
884+96	885+98.80	102.80		32.00'	TRANSITION SUPERELEVATION
885+98.80	886+08.15	9.35		32.00'-32.45'	TO CROWN
884+96	885+82.30	86.30	32.00'-32.36'		
885+82.30	886+08.13	25.85	32.36'-32.48'		

EXISTING PAVEMENT LEGEND

- (A) Existing 6" Conc. Base – 1" Cushion – 4" Brick
- (B) Existing 3½" Brick Surface Course
- (C) Existing 3/4" Mastic or Natural Asphaltic Limestone
- (E) Existing Type 3-B Curb Modified
- (F) Existing 3" Asphaltic Concrete

LEGEND PROPOSED PAVEMENT

1. 404 1¼" Asphalt Concrete (60-70)
2. 402 1¼" Asphalt Concrete (60-70)
3. 301 2" Bituminous Aggregate Base 702.01 (85-100); or 702.09, RT-11 or RT-12
4. 301 Variable Depth Bituminous Aggregate Base 702.01 (85-100); or 702.09, RT-11 or RT-12
5. 403 0" Min. Asphalt Concrete (60-70) (See note in Proposal)
6. 407 Tack Coat; 702.04, MS-2 or RS-1; or 702.02, RC-70 or RC-250 Applied at 0.1/Gal/S.Y.
7. 301 8" Bituminous Aggregate Base 702.01 (85-100); or 702.09, RT-11 or RT-12
8. 310 4" Subbase
9. 609 Standard Type 2 Combination Curb & Gutter
10. 310 Subbase, Depth as shown
11. 202 Curb Removal (See General Notes)
12. 301 3" Bituminous Aggregate Base 702.01 (85-100); or 702.09, RT-11 or RT-12
13. 409 Seal Coat using .008 C.Y./S.Y. of No 8 Aggregate and 0.30 Gal./S.Y. Bituminous Material (See Note in Proposal)
14. 304 8" Aggregate Base

◑ NOTE: Pavement to be finished ¼" above gutter plate

LINE SHEET	DATE	BY	CHECKED BY	DATE
SURVEYED		RS		
PLOTTED			RLM	
INK'D			RLM	
DESIGNED		WCH		
QUANTITIES		WCH		

BRUNING 44-560 10943

TYPICAL SECTIONS

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

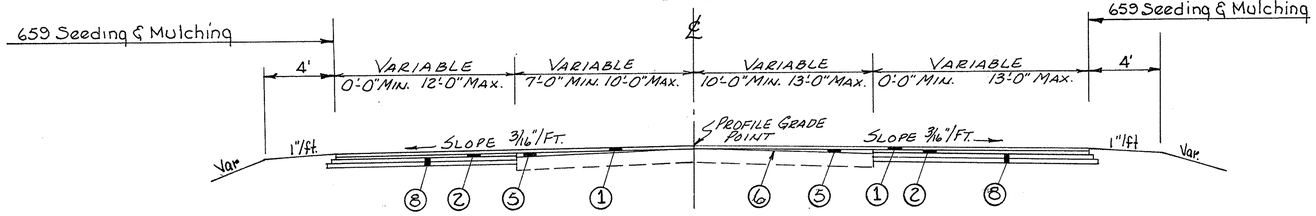
5
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TYPICAL SECTIONS

TYPE 404

SCALE 0 1/2' 5' 16'

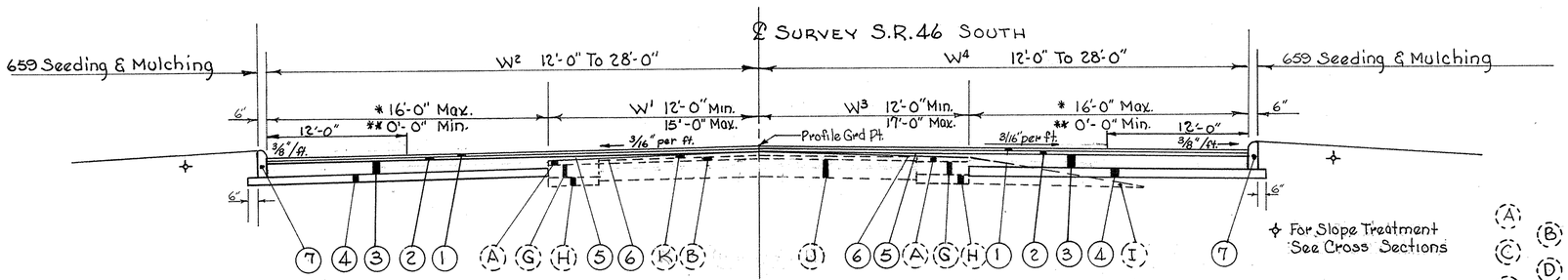


FREDERICK ST. & JOHNNYCAKE RD.

LIMITING STATIONS
AS SHOWN ON SHEET NO. 38.

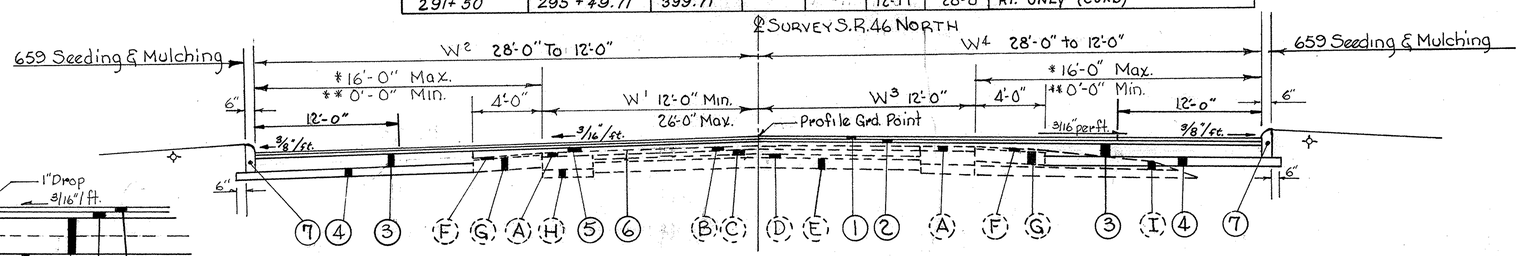
LEGEND

① 404	1¼"	Asphalt Concrete (60-70)
② 402	1¼"	Asphalt Concrete (60-70)
③ 301	8"	Bituminous Aggregate Base 702.01 (85-100); or 702.09, RT-11 or RT-12
④ 310	4"	Subbase, Regular Grading
⑤ 403	0"	Min. Asphalt Concrete (60-70) (See Note in Proposal)
⑥ 407		Tack Coat, 702.04, MS-2 or RS-1; or 702.02, RC-70 or RC-250
⑦ 609		Concrete Curb Standard Type 6
⑧ 301	6"	Bituminous Aggregate Base 702.01 (85-100); or 702.09, RT-11 or RT-12



For Slope Treatment See Cross Sections

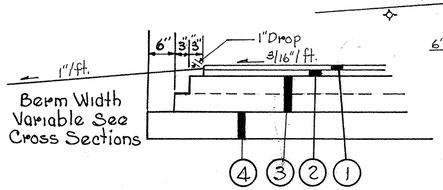
STATION FROM	STATION TO	LIN. FT.	W1	W2	W3	W4	DESCRIPTION
286+70	296+00.60	430.60					
296+00.60	295+49.71	449.11	12'-0"	12'-28'			LEFT ONLY (NO CURB) TRANSITION
291+00.60	295+49.71	449.11	12'-15'	28'-0"			LEFT ONLY (CURB)
295+49.71	297+63.57	213.86	Var.	Var.	Var.	Var.	US 422 Intersection
286+70	291+50	480.00			12'-0"	12'-28'	RT. ONLY TRANSITION
291+50	295+49.71	399.71			12'-17'	28'-0"	RT. ONLY (CURB)



LEGEND EXISTING PAVEMENT

A	B	Existing 2½" Tar Concrete / Existing 2" Asphalt
C	D	Existing 4" Brick / Existing 1" Gran. Cushion
E	F	Existing 6" Concrete Base / Seal Coat Using Agg. and Bit. Material
G	H	Existing 8" Agg. Base / Existing 6" Subbase
I	J	Existing Aggregate Drains / Existing 9" Plain Concrete Pavement
K		Existing Aggregate Drains

NOTE:
* With Curb
** Transition without Curb



PAVEMENT EDGE DETAIL WITHOUT CURB

STATION FROM	STATION TO	LIN. FT.	W1	W2	W3	W4	DESCRIPTION
297 + 63.57	303 + 00	536.43	26'-0"-12'-0"	28'-0"			Lt. Side Only (CURB)
303 + 00	307 + 80	480.00	12'-0"	28'-12'			Lt. Side Only-Taper
297 + 63.57	303 + 00	536.43			12'-0"	28'-0"	Rt. Side Only
303 + 00	307 + 80	480.00			12'-0"	28'-12'	TAPER
							RT. SIDE ONLY

LINE SHEET	BY	DATE	CHECKED BY
SURVEYED			
PLOTTED			
INKED	KW	1-7-71	RLM
DESIGNED	WCH		RLM
QUANTITIES	WCH		

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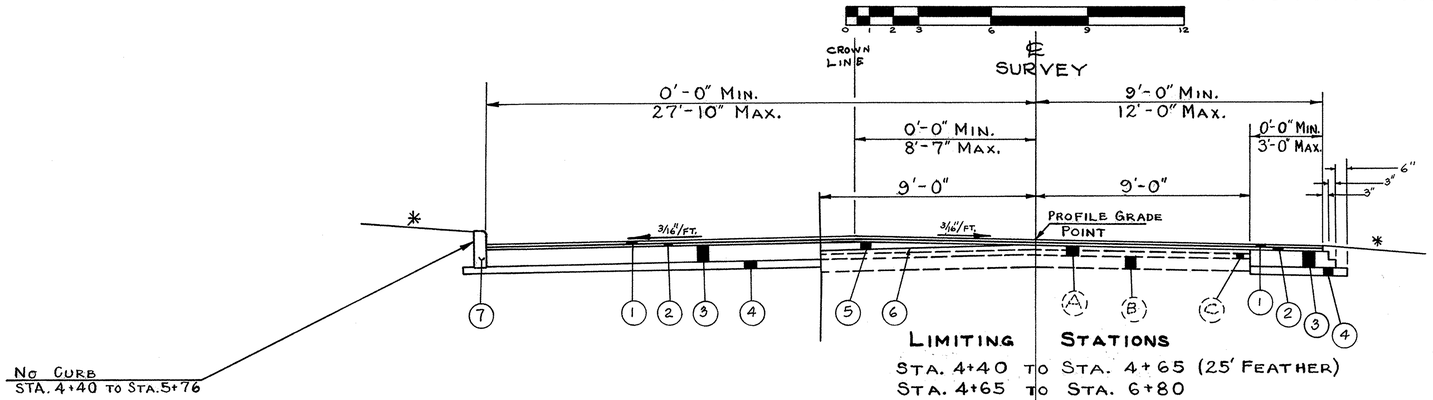
TYPICAL SECTIONS

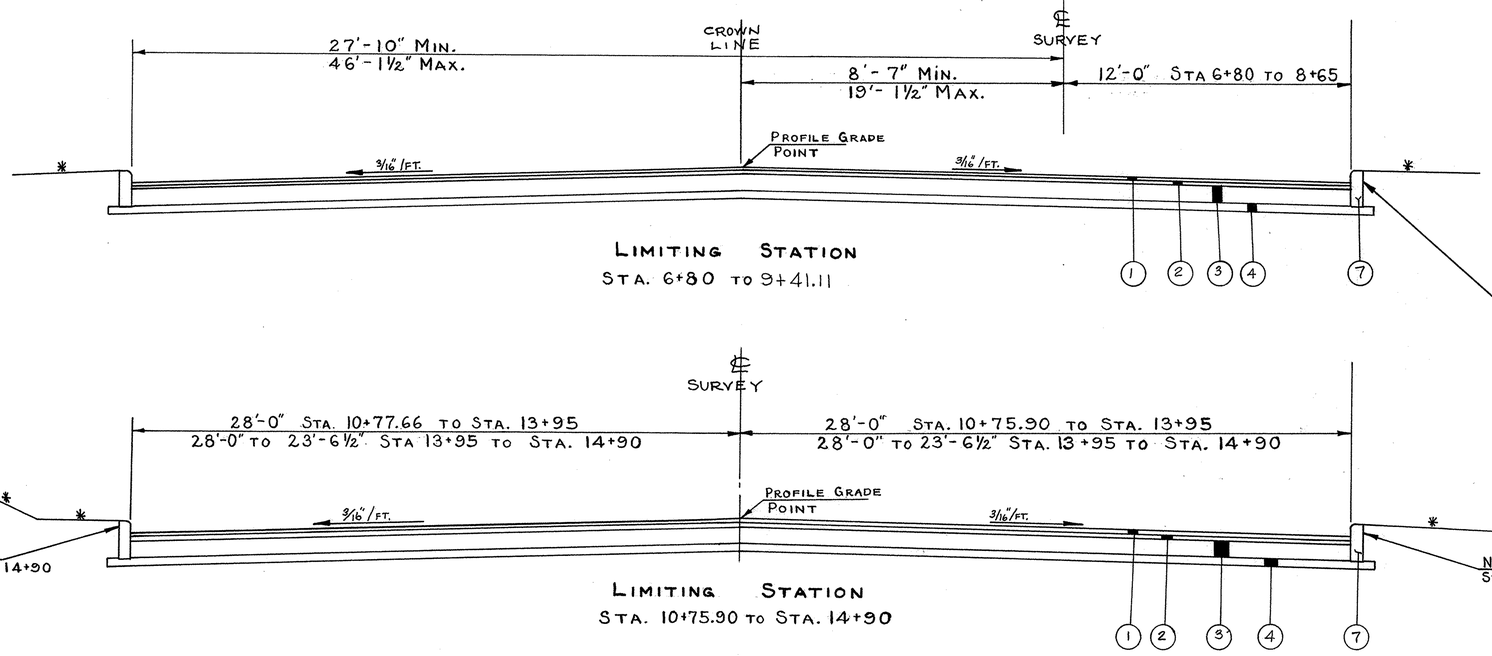
TYPICAL SECTIONS HEATON NORTH RD.

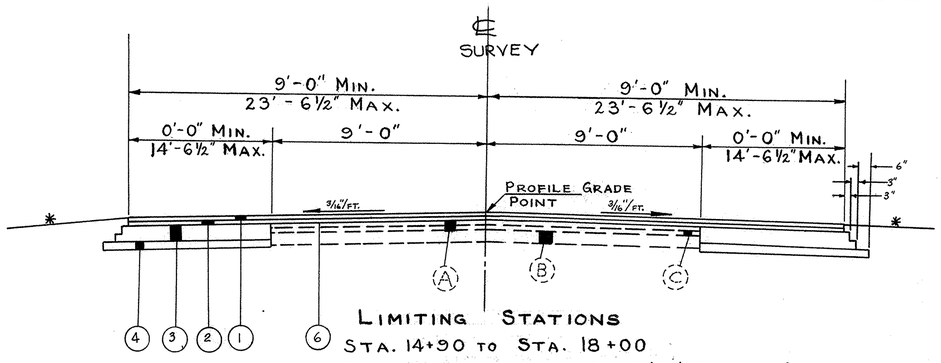
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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PROPOSED PAVEMENT LEGEND

1	404	1¼"	Asphalt Concrete (60-70)
2	402	1¼"	Asphalt Concrete (60-70)
3	301	8"	Bituminous Aggregate Base 702.01 (85-100); or 702.09, RT-11 or RT-12
4	310	4"	Subbase, Regular Grading
5	403	0"	Min. Asphalt Concrete Preleveling (60-70) See Note in Proposal
6	407		Tack Coat, 702.04, MS-2 or RS-1; or 702.02, RC-70 or RC-250
7	609		Std. Type 6 Curb

EXISTING PAVEMENT LEGEND

(A) EXISTING 6" PORTLAND CEMENT CONCRETE PAVEMENT

(B) EXISTING BITUMINOUS PAVEMENT (VARIABLE DEPTH)

(C) EXISTING 2" CONCRETE PAVEMENT

✳ VARIABLE WIDTH-SEE CROSS-SECTIONS FOR SLOPE

LINE SHEET	BY	DATE	CHECKED BY	DATE
SURVEYED				
PLOTTED				
DESIGNED	L.A.			
QUANTITIES	W.C.H.			

TYPICAL SECTIONS HEATON NORTH RD.

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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GENERAL NOTES

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.

FIELD OFFICE

The Contractor shall provide a suitable field office having a minimum of 400 sq. ft. of floor space and in addition to the requirements of Item 619, he shall provide and maintain sanitary provisions as per 107.06. All the above is included in the lump sum price bid for Item 619, Field Office.

ROUNDING

The rounded corners shown on the typical sections apply to all cross sections even though otherwise shown on these plans.

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 does not guarantee their accuracy or completeness.

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. Estimated quantities of materials shall not be ordered for delivery to the project unless authorized by the Engineer.

CONSTRUCTION LAYOUT STAKES

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

PROFILE

The profile of the proposed Asphalt Concrete course shall be approximately 2½ inches above that of the existing pavement.

REMOVAL OF TREES AND STUMPS

All trees and stumps specifically marked for removal 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 for which protection and preservation work is indicated elsewhere in these plans shall not be removed.

Size	No. of Trees	No. of Stumps
18"	10(U) 2(T)	4 (U) 1(T)
30"	3(U) 1(T)	2 (U) 1(T)
48"	1 (U) 0 (T)	2 (U) 1(T)
60"	0 (U) 0 (T)	0 (U) 0(T)

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 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.

CONNECTIONS TO EXISTING PIPE

Where the plans provide for proposed conduit to be connected to, or to cross either over or under, an existing sewer, 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 conduit.

Payment for all operations described above shall be included in the unit price bid for the pertinent 603 conduit items.

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 in new.

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

MAINTENANCE OF TRAFFIC

Two way traffic shall be maintained on U.S. 422 and all side roads at all times. The existing pavement on Heaton North Road to be removed shall be removed half width at a time, and two-way traffic shall be maintained at all times. The balance of the existing pavement shall not be removed until the 301 has been placed on the first section and the adjacent widening.

The crossroad culverts and storm sewers shall be constructed part width by a method acceptable to the Engineer in order that two-way traffic may be maintained at all times. The following estimated quantities have been provided for maintaining traffic at the crossroad culvert and storm sewer areas and for maintaining access to all properties abutting this project:

Item 410 -1250 cu. yds. - Traffic Compacted Surface, Type AorB
Item 410 -1250 cu. yds. - Traffic Compacted Surface, Type C

Once drainage construction is started, it shall be prosecuted vigorously and continuously to completion so that inconvenience to the public is held to an absolute minimum.

If the Contractor so elects, he may submit alternative methods for the maintenance of traffic provided the intent of the above provisions is followed and no additional inconvenience to the traveling public results therefrom. No alternate plan shall be placed into effect until approval has been granted, in writing, by the Director.

ITEM SPECIAL, PIPE CLEANOUT

Existing storm sewers which are to remain in place shall be cleaned out as directed by the Engineer. This work shall consist of the removal of all material from the inside of the existing pipe. The material removed shall be disposed of in accordance with the requirements of 105.151.

The location, type, depth and size of all exiting pipes are shown as nearly exact as the available information will permit. The State will not be responsible for any variation in sizes encountered during Construction. Payment for any work required to determine exact sizes and locations shall be included in the price bid per linear feet for "Item Special, Pipe Cleanout."

The footage to be paid for shall be the actual number of linear feet of existing pipe cleaned out as directed by the Engineer. The footage measured as provided above shall be paid for at the unit price bid per linear foot for, Item Special, Pipe Cleanout, which price and payment shall constitute full compensation for removal and disposal of all material found in the pipe and the furnishing of all labor, equipment, tools and incidentals necessary to complete this item.

Special, Pipe Cleanout, 18" and under 1000 L.F.

FEDERAL AID CONSTRUCTION IDENTIFICATION SIGNS

The Contractor shall furnish, erect, maintain, and subsequently remove Federal Aid construction identification signs at each of the following approximate locations:

Sta. 773+75 (RT.) U.S.R. 422
Sta. 924+00 (LT.) U.S.R 422
Sta. 286+75 (RT.) S.R. 46
Sta. 307+00 (LT.) S.R. 46

Sign details shall be as specified on Standard Drawing FACI-1, "Code N-54(1)-96(3)

The signs shall be erected in accordance with Standard Drawing FACI-2. Additional requirements shall be in accordance with notes in the proposal.

STANDARD MONUMENT ASSEMBLIES

Standard Monument Assemblies shall be constructed in accordance with details shown on Standard Drawing MC-1. Standard Monument Assemblies shall be set on the C of R W at the following locations:

Sta. 786+55.35 POT	Sta. 877+19.50 P.C.
Sta. 797+05.88 POT	Sta. 880+48.40 P. I.
Sta. 817+29.87 Ext.	Sta. 883+72.83 BK=883 72.65 AHD. PT.
Sta. 825+77.12 POC	Sta. 894+87.92 P I.
Sta. 825+99.73 POC	Sta. 906+57.05 P. I.
Sta. 844+73.26 POC	Sta. 922+92.38 P. I.
Sta. 864+77.43 PT.	

REPLACEMENT AREAS

Wherever new curb or roadway disturbs existing Bituminous or Concrete Drives and Parking Areas, the area between the back of the curb or roadway and the edge of the Existing Surface will be replaced in kind at locations as directed by the Engineer. Payment shall be at the unit prices bid for the various pavement items required. The following additional quantities are carried to the Summary Sheet for this purpose.

ITEM 404 Asphalt Conc. (60-70)	15 C.Y.
ITEM 304 Aggregate Base	25 C.Y.
ITEM 452 Plain Portland Cement Conc. Pavement (8)	50 S.Y.
ITEM 609 Concrete Curb, Type 6	100 L.F.

BUTT JOINTS IN CONCRETE

Where it is necessary to remove a portion of the concrete pavement the cut shall be made with a concrete saw. A 3/4" expansion joint filler shall be used in the resulting joint between the old and new pavement. The cost of which will be included in the unit price bid for Item 452 Plain Portland Cement Concrete Pavement.

DUST CONTROL

The following quantities are carried to the General Summary for controlling dust throughout the project. Estimated quantities shall be used as directed by the Engineer.

ITEM 616	100 Tons - Calcium Chloride
ITEM 616	100 M.Gal. - Water

660 SODDING

The following estimated quantity of 660 Sodding is carried in the General Summary for use in front of residences as directed by the Engineer.

		T-4005(6)	F-522(27)
660	Sodding	1000 Sq. Yds	0

	BY	DATE
SURVEYED		
PLOTTED	L.F.T.	3-18-71
INKED	L.F.T.	3-18-71
DESIGNED		
QUANTITIES	WCH	8-25-71

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FED. RD. DIVISION	STATE	PROJECT	
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GENERAL NOTES

WATER LINES

CITY OF WARREN

The City Of Warren Water Lines run from the beginning of work to the ℄ of Heaton North Rd. The City of Warren Water Dept. shall perform all necessary water line adjustments and relocations. The contractor shall notify the City of Warren Water Dept. 48 hours in advance before any work is begun on any storm drainage items.

CITY OF NILES

The City of Niles Water Lines run from the ℄ of Heaton–North Rd. to the end of work. The City of Niles shall perform all necessary fire hydrant adjustments, valve box relocations, and any miscellaneous water line relocations. The contractor shall perform all necessary valve boxes adjusted to grade. Payment shall be 100% City of Niles.

VALVE BOX ADJUSTED TO GRADE

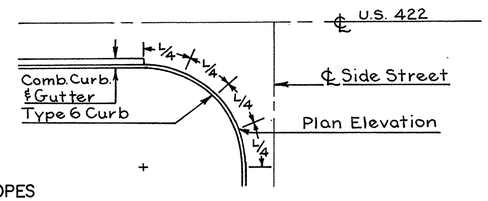
This work shall consist of resetting existing valve boxes to grade at the locations shown on the plans or as directed by the Engineer.

The Contractor shall excavate around the valve box without injuring the box or pipe and reset the telescope base and hood. If it is necessary to adjust the existing valve box beyond its design limits, and extensions shall be furnished and installed. After the valve box has been adjusted to grade the backfilling and surface restoration work shall be done.

Payment will be made at the contract unit price bid for each Item 814–Valve Box adjusted to grade which price and payment shall constitute full compensation for the furnishing of all labor, materials, small tools, and equipment required to complete this item of work in place.

ELEVATIONS AT RETURNS

Distance between elevations shown on intersection returns are L/4 unless otherwise shown. Elevations shown on returns are to top of curb. Location and distance of returns on Heaton–North Rd. are shown on sheet 9



GUTTER SLOPES

Where standard type 2 combination curb and gutter meets with standard type 6 curb the gutter plate of the type 2 curb shall be warped in the last ten (10') feet to meet the standard pavement slope at the type 6 curb unless otherwise shown.

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.

SEEDING (URBAN AREAS AND INTERSTATE)

Quantities for seeding are calculated for the soil areas between the right-of-way fence lines, between the right-of-way lines in unfenced areas, and within the work limits for areas outside the right-of-way lines covered by work agreement or slope easement.

WATER POLLUTION, SOIL EROSION AND SILTATION CONTROL

The following estimated quantities are to be used as directed by the Engineer for erosion and siltation control measures. For details see the note in the Proposal.

Special, Temporary Seeding and Mulching	7000 Sq. Yds.
Special Water	15 M. Gal.
Special, Temporary Slope Drains	680 Lin. Ft.
Special, Temporary Benches, Dikes, Dams and Sediment Basins	900 Cu. Yds.
Special, Repair Seeding and Mulching	3500 Sq. Yds.
Special, Mowing	63-M Sq. Ft.

GUARD RAIL

The locations of guardrail runs as shown in these plans are subject to adjustment to assure that the planned installations will afford maximum protection for traffic.

CURB REMOVAL AS PER PLAN

The existing concrete curb as shown on the typical section shall be removed to a point two and one half inches below the level of the existing wearing course without cracking the balance of the curb. The accepted quantities of concrete curb so removed shall be paid for at the contract bid price per linear foot of curb removal as per plan.

PARTICIPATION

The Romar Inc. have agreed to participate in this project to the extent of the following: A 10' lane at shopping center entrance, Sta. 869+02 to 876+19.

Estimated Quantities:

ITEM 310	80 Cu. Yds.
ITEM 301	160 Cu. Yds.
ITEM 404	25 Cu. Yds.
ITEM 402	25 Cu. Yds.
ITEM 203	Excavation 240 Cu. Yds.

MAINTAINENCE OF TRAFFIC – STR. NO. 422–15.90

PART I

1. Remove Existing Curb and Gutter from STA. 842+00 to 844+34
2. Perform Earthwork and Drainage Items on Rt. side from STA. 834+00 to STA 844+00
3. Construct Pavement Widening from STA. 835+00 to STA 839+58(Rt) and STA. 840+82 to STA. 844+10
4. Transfer Traffic to right side of Existing Structure
5. Place Temp. G. Rail and Barrels from STA. 835+20 to STA. 839+58 and STA. 840+82 to STA. 844+10
6. Perform Phase I of Structure 422–15.90 as shown on sheet 185
7. During Phase I of Structure Construction, Perform Earthwork, Drainage, Combination Curb and Gutter, Approach Slabs and Widening of Pavement between STA. 835+00 to STA. 839+75(Lt.) and STA. 841+00 to STA. 846+63(Lt.). If the Contractor so elects he may delay the construction of the 402 and 404 courses in this area (step 3&6) to co-ordinate it with the remaining portion of the project. The 402 and 404 courses on the approach slabs shall be placed in conjunction with the paving of the structure.

PART II

1. Transfer traffic to completed portion of the structure.
2. Place temp. G. Rail and Barrels from STA. 835+00 to STA. 842+50
3. Perform Phase II of Structure 422–15.90 as shown on sheet 186
4. Complete new construction from STA. 835+00 to STA. 839+58(Rt.)
5. Remove Temp. G. Rail and Barrels

For temp guard rail, barrel and interim pavement marking see sheet 182.

MAINTAINENCE OF TRAFFIC – COMMERCIAL AREAS

Local traffic shall be maintained at all times. Particular emphasis is placed on the Contractor's responsibility for maintaining ingress and egress at all times to Commercial properties on this project.

Every effort should be made by the Contractor to arrange his operations in such a manner that through access to commercial establishments shall be maintained at all times. This may require establishing temporary access to the property during reconstruction of the existing drives. In no case, shall any one existing drive, serving an individual commercial property, be closed for more than ten calendar days.

INTERSECTION CROWN

During rolling of crown point of US.422 at intersecting roads, special care should be used so as to prevent a break point in the profile of the intersecting road through the intersection area. Method used to prevent this break point shall be as directed by the Engineer.

ITEM 407 TACK COAT

If traffic is maintained on 301 Bituminous Aggregate Base, 407 Tack Coat shall be applied before placing of the surface course at the direction of the Engineer. The application rate shall be 0.1 Gal./Sq. Yd.

An estimated quantity of 250 Gal. has been carried to the General Summary.

LINE SHEET	BY	DATE	CHECKED BY	DATE
SURVEYED				
PLOTTED				
INKED	G.H.R.	9-20-71		
DESIGNED				
QUANTITIES	W.C.H.	8-18-71	R.W.M.	8-25-71

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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CALCULATIONS

404 ASPHALT CONCRETE 1¼"

MAINLINE

		F - FUNDS	T- FUNDS
Sta. 774+57.60 To 776+39.98 (Calc.)	9849.6 S.F. ÷ 9 =	= 1094.4 S.Y.	
Sta. 776+39.98 To 777+13.88	73.90×62 ÷ 9	= 509.1 S.Y.	
Sta. 777+13.88 To 817+19.24	4005.36×60÷9	= 26,702.4 S.Y.	
Sta. 817+19.24 To 820+87.09	367.85×64(AV.)÷9	= 2,615.8 S.Y.	
Sta. 820+87.09 To 825+06.40	419.31×68 ÷9	= 853.1 S.Y.	2,315.0 S.Y.
Sta. 825+06.40 To 825+10.28(Rt.Only)	3.88×34 ÷9	=	14.7 S.Y.
Heaton North Rd. Intersection(Calc)	14,674.3 S.F. ÷9	=	1,630.5 S.Y.
Sta. 826+31.00 To 826+37.98(Lt.Only)	6.98×46÷9	=	35.7 S.Y.
Sta. 826+37.98 To 829+00	262.02+70 ÷9	=	2,037.9 S.Y.
Sta. 829+00 To 830+00	100.00×75(Av.)÷9	=	833.3 S.Y.
Sta. 830+00 To 830+33	33.00×80 ÷9	=	293.3 S.Y.
Sta. 830+33 To 831+83	150.00×75(Av.)÷9	=	1250.0 S.Y.
Sta. 831+83 To 832+33.22	50.22×70 ÷9	= 258.4 S.Y.	132.2 S.Y.
Sta. 832+33.22 To 832+54.2(Rt.Only)	(Calc.) 567.3 ÷9	= 63.0 S.Y.	
Sta. 832+33.22 To 832+54.2(Lt.Only)	20.98×36÷9	= 83.9 S.Y.	
Sta. 832+54.20 To 845+00	1245.80×60÷9	= 8,305.3 S.Y.	
Sta. 845+00 To 845+63	163.00×62.5(Av.) ÷9	= 1,131.9 S.Y.	
Add. At Suspend Project (Calc.)	130 S.F. ÷9	= 14.1 S.Y.	
Mines Rd. Return(Calc.)(Lt.)	533.5 S.F. ÷9	= 59.3 S.Y.	
Sta. 864+31 To 874+69.41	1038.41×70÷9	= 8,076.5 S.Y.	
Sta. 874+69.41 To 876+19.41	150.00×65(Av.)÷9	= 1,083.3 S.Y.	
Sta. 876+19.41 To 884+95.68	876.27×60÷9	= 5,841.8 S.Y.	
Sta. 884+95.68 To 884+98.19(Rt.Only)	2.51×30÷9	= 8.4 S.Y.	
Frederick-Johnnycake Inter.(Calc.)	8846.5 S.F.÷9	= 982.9 S.Y.	
Sta. 885+82.30 To 889+63(Lt.Only)	380.70×31.18(Av.)÷9	= 1,319.9 S.Y.	
Sta. 885+98.65 To 887+48.65(Rt.Only)	150.00×33.36(Av.)÷9	= 556.0 S.Y.	
Sta. 887+48.65 To 888+42.24 (Rt.Only)	93.59×35.665(Av.)÷9	= 370.9 S.Y.	
Sta. 888+42.24 To 889+63(Rt.Only)	120.76×3432÷9	= 460.5 S.Y.	
Sta. 889+63 To 893+55.13	392.13×64÷9	= 1,685.3 S.Y.	1,103.2 S.Y.
Sta. 893+55.13 To 894+27.02(Rt.Only)	71.89×32÷9	=	255.6 S.Y.
S.R. 46 Intersection(Calc.)	19,315.8 S.F. ÷9	=	2,146.2 S.Y.
Sta. 895+16.18 To 900+30(Lt.Only)	513.82×40.5(Av.)÷9	=	2,312.2 S.Y.
Sta. 895+67.91 To 900+30(Rt.Only)	462.09×27(Av.)÷9	=	1,386.3 S.Y.
Sta. 900+30 To 901+80	150.00×64(Av.)÷9	=	1,006.7 S.Y.
Sta. 901+80 To 919+32.38	1752.38×60÷9	= 1,549.2 S.Y.	133.3 S.Y.
Sta. 919+32.38 To 922+92.38	360.00×52(Av.)÷9	= 2,080.0 S.Y.	
HEATON NORTH RD.			
Sta. 4+65 To 8+65(Lt.)	400.00×26.5(Av.)÷9	=	1,177.8 S.Y.
Sta. 4+65 To 5+00(Rt.)	35.00×10.5(Av.)÷9	=	40.8 S.Y.
Sta. 5+00 To 9+22.16(Rt.)	422.16×12÷9	=	562.9 S.Y.
Sta. 8+65 To 9+22.16(Lt.)	57.16×44÷9	=	279.4 S.Y.
Sta. 10+77.66 To 13.95	317.34×56÷9	=	1,974.6 S.Y.
Sta. 13+95 To 18+00	405.00×37(Av.)÷9	=	1,665.0 S.Y.
FREDERICK-JOHNNYCAKE RD.			
Sta. 13+00.33 To 14+35.33	135.00×26.43(Av.)÷9	= 396.5 S.Y.	
Sta. 15+62.36 To 16+84	121.64×25.78(Av.)÷9	= 348.4 S.Y.	
STATE ROUTE 46			
Sta. 286+95 To 291+00.60(Lt.)	405.60×20.365(Av.)÷9	=	917.8 S.Y.
Sta. 286+95 To 291+50(Rt.)	455.00×20.365(Av.)÷9	=	1,029.6 S.Y.
Sta. 291+00.60 To 295+49.71(Lt.)	449.11×28÷9	=	1,397.2 S.Y.
Sta. 291+50 To 295+49.71(Rt.)	399.11×28÷9	=	1,241.7 S.Y.
Sta. 297+63.57 To 303+00	536.43×56÷9	=	3,337.8 S.Y.
Sta. 303+00 To 307+55	455.00×40.73(Av.)÷9	=	2,059.1 S.Y.
Additional Area For Drives (Calc.)		= 39.3 S.Y.	
Sub. Total		76,488.6 S.Y.	32,629.8 S.Y.
Deduct For Bridge & Approach Slabs		1,027.3 S.Y.	
	TOTAL	75,461.3 S.Y.	

	F - FUNDS	T - FUNDS
75,461.3 × 1.25 ÷ 36 =	2,620.18 C.Y.	32,629.8 × 1.25 ÷ 36 = 1,132.98 C.Y.
Add For Feather Areas	7.75 C.Y.	5.20 C.Y.
	2,627.93 C.Y.	1,138.18 C.Y.

F - FUNDS TO GENERAL SUMMARY 2,628 CU.YDS. T-FUNDS 1,138 Cu.Yds.

402 ASPHALT CONCRETE 1¼"

	F - FUNDS	T - FUNDS
Same as 404	2,620.18 C.Y.	1,132.98 C.Y.
Add For Feather Areas	3.50 C.Y.	2.60 C.Y.
Sub - Total	2,623.68 C.Y.	TOTAL 1,135.58 C.Y.
Deduct for Frederick - Johnnycake	- 25.86 C.Y.	
TOTAL	2,597.82 C.Y.	

F - FUNDS TO GENERAL SUMMARY 2,598 CU.YDS. T-FUNDS 1,136 Cu.Yds.

403 0" MIN. ASPHALT CONCRETE

MAIN LINE & S.R 46

	F - FUNDS	T-FUNDS
FROM SHEET No. 11	1,163.89 C.Y.	386.43 C.Y.
HEATON NORTH RD. ESTIMATED		20.00 C.Y.
FREDERICK & JOHNNY CAKE RD. ESTIMATED	10.00 C.Y.	
TOTAL	1,173.89 C.Y.	406.43 C.Y.
F-FUNDS TO GENERAL SUMMARY 1,174 Cu.Yds.		T-FUNDS 406 Cu.Yds.

407 TACK COAT

MAIN LINE

						F - FUNDS	T-FUNDS
Sta. 774+57.60	To	776+35	177.40 L.F. × 48.5 (Av.)	÷ 9	=	956.0 S.Y.	
Sta. 776+35	To	778+70	235.00 L.F. × 47	÷ 9	=	1,227.2 S.Y.	
Sta. 778+70	To	779+50	80.00 L.F. × 43 (Av)	÷ 9	=	382.2 S.Y.	
Sta. 779+50	To	780+50	100.00 L.F. × 38 (Av)	÷ 9	=	422.2 S.Y.	
Sta. 780+50	To	783+00	250.00 L.F. × 37	÷ 9	=	1,027.8 S.Y.	
Sta. 783+00	To	784+20	120.00 L.F. × 34.5 (Av)	÷ 9	=	460.0 S.Y.	
Sta. 784+20	To	823+88	3,968.00 L.F. × 30	÷ 9	=	12,600.7 S.Y.	626.7 S.Y.
Sta. 823+88	To	825+00	112.00 L.F. × 35 (Av)	÷ 9	=		435.6 S.Y.
Sta. 825+00	To	827+00	200.00 L.F. × 40	÷ 9	=		888.9 S.Y.
ADD EXTRA @ HEATON NORTH RD INTERSECTION (CALC.)					=		119.4 S.Y.
STA. 827+00	To	828+00	100.00 L.F. × 35 (Av)	÷ 9	=		388.9 S.Y.
STA. 828+00	To	829+00	100.00 L.F. × 30	÷ 9	=		333.3 S.Y.
STA. 829+00	To	830+00	100.00 L.F. × 35 (Av)	÷ 9	=		388.9 S.Y.
STA. 830+00	To	832+30	230.00 L.F. × 40	÷ 9	=	133.3 S.Y.	888.9 S.Y.
STA. 832+30	To	839+42.95	712.95 L.F. × 30	÷ 9	=	2,376.5 S.Y.	
STA. 839+42.95	To	840+97.05	BRIDGE AND APPROACH SLABS				
STA. 840+97.05	To	842+71	173.95 L.F. × 33.5 (Av.)	÷ 9	=	647.5 S.Y.	
STA. 842+71	To	844+07	136.00 L.F. × 42 (Av.)	÷ 9	=	634.7 S.Y.	
STA. 844+07	To	845+00	93.00 L.F. × 50 (Av.)	÷ 9	=	516.7 S.Y.	
STA. 845+00	To	846+63	163.00 L.F. × 56.5 (Av)	÷ 9	=	1023.3 S.Y.	
ADD AT SUSPEND PROJECT (CALC)						14.4 S.Y.	
STA. 864+06	To	864+77.43	71.43 L.F. × 64 (Av.)	÷ 9	=	507.9 S.Y.	
STA. 864+77.43	To	866+00	122.57 L.F. × 52.5 (Av.)	÷ 9	=	715.0 S.Y.	
STA. 866+00	To	872+00	600.00 L.F. × 38 (Av.)	÷ 9	=	2,533.3 S.Y.	
STA. 872+00	To	886+00	1400.00 L.F. × 30	÷ 9	=	4,666.7 S.Y.	
ADD FOR FREDERICK AND JOHNNY CAKE INTER (CALC.) 2649.0 SF				÷ 9	=		294.3 S.Y.
STA. 886+00	To	887+00	100.00 L.F. × 39.5 (Av.)	÷ 9	=	438.9 S.Y.	
STA. 887+00	To	889+54	254.00 L.F. × 42	÷ 9	=	1,185.3 S.Y.	
STA. 889+54	To	892+25	271.00 L.F. × 30	÷ 9	=	820.3 S.Y.	83.3 S.Y.
STA. 892+25	To	893+80	155.00 L.F. × 35 (Av.)	÷ 9	=		602.8 S.Y.
STA. 893+80	To	896+25	225.00 L.F. × 40	÷ 9	=		1088.9 S.Y.
ADD FOR S.R. 46 INTERSECTION (CALC) 8,565.8 S.F.				÷ 9	=		951.8 S.Y.
STA. 896+25	To	897+25	100.00 L.F. × 35 (Av.)	÷ 9	=		388.9 S.Y.
STA. 897+25	To	920+00	2275.00 L.F. × 30	÷ 9	=	6,000.0 S.Y.	1583.3 S.Y.
STA. 920+00	To	922+92.38	292.38 L.F. × 35 (Av.)	÷ 9	=	1,137.0 S.Y.	
STA. 922+92.38	To	923+17.38	25.00 L.F. × 40	÷ 9	=	111.1 S.Y.	
HEATON NORTH RD.							
STA. 4+40	To	6+80	240.00 L.F. × 18	÷ 9	=		480.0 S.Y.
STA. 14+90	To	18+25	335.00 L.F. × 18	÷ 9	=		670.0 S.Y.
FREDERICK ST. AND JOHNNY CAKE RD.							
STA. 12+90.33	To	14+35.33	145.00 L.F. × 19	÷ 9	=	306.1 S.Y.	
STA. 15+62.36	To	16+94	131.64 L.F. × 20	÷ 9	=	292.5 S.Y.	
S.R. 46							
STA. 286+70	To	294+10	740.00 L.F. × 24	÷ 9	=	1973.3 S.Y.	1973.3 S.Y.
STA. 294+10	To	294+70	60.00 L.F. × 27 (Av.)	÷ 9	=	180.0 S.Y.	180.0 S.Y.
STA. 294+70	To	295+49.71	79.71 L.F. × 31	÷ 9	=	274.6 S.Y.	274.6 S.Y.
STA. 297+63.57	To	298+60	96.43 L.F. × 38	÷ 9	=	407.1 S.Y.	407.1 S.Y.
STA. 298+60	To	300+00	140.00 L.F. × 31 (Av.)	÷ 9	=	482.2 S.Y.	482.2 S.Y.
STA. 300+00	To	307+80	780.00 L.F. × 24	÷ 9	=	2,080.6 S.Y.	2080.0 S.Y.
				SUB-TOTAL	=	46,532.8 S.Y.	15611.1 S.Y.

		F-FUNDS	T-FUNDS
F-FUNDS 46,532.8 S.Y. × 0.1 GAL./S.Y.	=	4653.2 GAL.	
T-FUNDS 15,611.1 S.Y. × 0.1 GAL/S.Y.	=		1561.1 GAL.
TO GENERAL SUMMARY		F-FUNDS 4653 GAL.	T-FUNDS 1561 GAL.

LINE SHEET	BY	DATE	CHECKED BY	DATE
SURVEYED				
PLOTTED				
INKED	GRG KW	9/16/71		
DESIGNED			RLM	9/16/71
QUANTITIES	WCH	9/18/71		

CALCULATIONS

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

10/216

TRU-422-(14.70)-(16.38)

LINE SHEET	BY	DATE
SURVEYED		
PLOTTED	KW	9-15-71
INKED		
DESIGNED		
QUANTITIES	WCH	9/16/71

R.L.M. 9/15/71

301 Bituminous Aggregate Base

Main Line

					F-Funds	T-Funds
Sta. 774+82.60	To	Sta. 776+39.98	Calc. 966.9 SF	÷ 9 =	107.4 S.Y.	
Sta. 776+39.98	To	Sta. 777+13.88	73.90 L.F. x 15	÷ 9 =	123.2 S.Y.	
Sta. 777+13.88	To	Sta. 778+70	156.12 L.F. x 13	÷ 9 =	225.5 S.Y.	
Sta. 778+70	To	Sta. 779+50	80 L.F. x 17.5(Av)	÷ 9 =	155.6 S.Y.	
Sta. 779+50	To	Sta. 783+00	350 L.F. x 22	÷ 9 =	855.6 S.Y.	
Sta. 783+00	To	Sta. 784+20	120 L.F. x 26(Av)	÷ 9 =	346.7 S.Y.	
Sta. 784+20	To	Sta. 817+19.24	3299.24 L.F. x 30	÷ 9 =	10,997.5 S.Y.	
Sta. 817+19.24	To	Sta. 820+87.09	367.85 L.F. x 34 (Av)	÷ 9 =	1,389.7 S.Y.	
Sta. 820+87.09	To	Sta. 823+88	300.91 L.F. x 38	÷ 9 =	476.7 S.Y.	793.8 S.Y.
Sta. 823+88	To	Sta. 825+06.40	118.40 L.F. x 33(Av)	÷ 9 =		434.1 S.Y.
Sta. 825+06.40	To	Sta. 825+10.28 Rt.	3.88 L.F. x 14	÷ 9 =		6.0 S.Y.
Heaton North Road Intersection (Calc)			9674.3 SF	÷ 9 =		1074.9 S.Y.
Sta. 826+31	To	Sta. 826+37.98 (Lt)	6.98 L.F. x 26	÷ 9 =		20.2 S.Y.
Sta. 826+37.98	To	Sta. 828+00	162.02 L.F. x 35 (Av)	÷ 9 =		630.1 S.Y.
Sta. 828+00	To	Sta. 829+00	100.00 L.F. x 40	÷ 9 =		444.4 S.Y.
Sta. 829+00	To	Sta. 830+33	133.00 L.F. x 40	÷ 9 =		591.1 S.Y.
Sta. 830+33	To	Sta. 831+83	150.00 L.F. x 35 (Av)	÷ 9 =		583.3 S.Y.
Sta. 831+83	To	Sta. 832+33.22	50.22 L.F. x 30 (Av)	÷ 9 =	110.7 S.Y.	56.7 S.Y.
Sta. 832+33.22	To	Sta. 832+54.20 (Lt)	20.98 L.F. x 16	÷ 9 =	37.3 S.Y.	
Sta. 832+54.20	To	Sta. 839+42.95	688.75 L.F. x 30	÷ 9 =	39.7 S.Y.	
Sta. 832+33.22	To	Sta. 832+54.20 (Rt. Calc.)	357.5 S.F.	÷ 9 =	2295.8 S.Y.	
Sta. 840+97.05	To	Sta. 842+71	173.95 L.F. x 24 (Av)	÷ 9 =	463.9 S.Y.	
Sta. 842+71	To	Sta. 844+07.5	136.50 L.F. x 18.5 (Av)	÷ 9 =	280.6 S.Y.	
Sta. 844+07.5	To	Sta. 846+48 (Lt)	240.50 L.F. x 9 (Av)	÷ 9 =	240.5 S.Y.	
Mines Rd Return (Lt.) Calc.			533.5 S.F.	÷ 9 =	59.3 S.Y.	
Sta. 864+31	To	Sta. 866+00 (Lt)	169.00 L.F. x 14 (Av.)	÷ 9 =	262.9 S.Y.	
Sta. 864+77.43	To	Sta. 872+00 (Rt)	722.57 L.F. x 10 (Av.)	÷ 9 =	802.9 S.Y.	
Sta. 866+00	To	Sta. 874+69.41 (Lt)	869.41 L.F. x 20	÷ 9 =	1932.0 S.Y.	
Sta. 874+69.41	To	Sta. 876+19.41 (Lt)	150.00 L.F. x 15 (Av)	÷ 9 =	250.0 S.Y.	
Sta. 872+00	To	Sta. 876+19.41 (Rt)	419.41 L.F. x 20	÷ 9 =	932.0 S.Y.	
Sta. 876+19.41	To	Sta. 884+35.68	876.27 L.F. x 30	÷ 9 =	2920.9 S.Y.	
Sta. 884+35.68	To	Sta. 884+98.19 (Rt)	2.51 L.F. x 20	÷ 9 =	5.6 S.Y.	
Frederick-Johnny Cake Intersection (Calc)			4184.5 S.F.	÷ 9 =	464.9 S.Y.	
Sta. 885+82.30	To	Sta. 889+63 (Lt)	380.70 L.F. x 11.18 (Av)	÷ 9 =	472.9 S.Y.	
Sta. 885+98.65	To	Sta. 887+48.65 (Rt)	150.00 L.F. x 14.36 (Av)	÷ 9 =	239.3 S.Y.	
Sta. 887+48.65	To	Sta. 888+42.24 (Rt)	93.59 L.F. x 13.665 (Av)	÷ 9 =	142.1 S.Y.	
Sta. 888+42.24	To	Sta. 889+63 (Rt.)	120.76 L.F. x 18 (Av)	÷ 9 =	241.5 S.Y.	
Sta. 889+63	To	Sta. 893+55.13 (Lt)	392.13 L.F. x 12	÷ 9 =	316.0 S.Y.	206.8 S.Y.
Sta. 889+63	To	Sta. 892+25 (Rt)	262.00 L.F. x 22	÷ 9 =	379.3 S.Y.	61.1 S.Y.
Sta. 892+25	To	Sta. 893+75 (Rt)	150.00 L.F. x 15 (Av)	÷ 9 =		250.0 S.Y.
Sta. 893+75	To	Sta. 894+27.02 (Rt)	52.02 L.F. x 10	÷ 9 =		57.8 S.Y.
SR 46 Intersection (Calc)			4,711.2	÷ 9 =		523.5 S.Y.
Sta. 895+16.18	To	Sta. 900+30 (Lt)	513.82 L.F. x 20.5 (Av)	÷ 9 =		1,170.4 S.Y.
Sta. 895+67.91	To	Sta. 896+25 (Rt.)	57.09 L.F. x 4	÷ 9 =		25.4 S.Y.
Sta. 896+25	To	Sta. 897+25 (Rt)	100.00 L.F. x 10 (Av)	÷ 9 =		111.1 S.Y.
Sta. 897+25	To	Sta. 900+30 (Rt)	305.00 L.F. x 18 (Av)	÷ 9 =		610.0 S.Y.
Sta. 900+30	To	Sta. 901+80	150.00 L.F. x 34 (Av)	÷ 9 =		566.7 S.Y.
Sta. 901+80	To	Sta. 919+32.38	1752.38 L.F. x 30	÷ 9 =	5,774.6 S.Y.	66.7 S.Y.
Sta. 919+32.38	To	Sta. 922+92.38 (Lt)	360.00 L.F. x 6 (Av)	÷ 9 =	240.0 S.Y.	
Sta. 919+32.38	To	Sta. 920+00 (Rt)	67.62 L.F. x 20.88 (Av)	÷ 9 =	156.9 S.Y.	
Sta. 920+00	To	Sta. 922+92.38 (Rt)	292.38 L.F. x 9.88 (Av)	÷ 9 =	321.0 S.Y.	
Heaton North Rd.						
Sta. 4+65	To	Sta. 6+80 (Lt)	215.00 L.F. x 9.41 (Av)	÷ 9 =		224.8 S.Y.
Sta. 4+65	To	Sta. 5+00 (Rt)	35.00 L.F. x 1.5 (Av.)	÷ 9 =		5.8 S.Y.
Sta. 5+00	To	Sta. 6+80 (Rt)	180.00 L.F. x 3	÷ 9 =		60.0 S.Y.
Sta. 6+80	To	Sta. 8+65	185.00 L.F. x 47.05 (Av)	÷ 9 =		984.7 S.Y.
Sta. 8+65	To	Sta. 9+22.16	57.16 L.F. x 56	÷ 9 =		355.7 S.Y.
Sta. 10+77.66	To	Sta. 13+95	317.34 L.F. x 56	÷ 9 =		1974.6 S.Y.
Sta. 13+95	To	Sta. 14+90	95.00 L.F. x 51.54 (Av)	÷ 9 =		544.0 S.Y.
Sta. 14+90	To	Sta. 18+00	310.00 L.F. x 14.54 (Av)	÷ 9 =		500.8 S.Y.
SR 46						
Sta. 286+70	To	Sta. 291+00.60 (Lt)	430.60 L.F. x 8 (Av)	÷ 9 =		382.8 S.Y.
Sta. 286+70	To	Sta. 291+50 (Rt)	480.00 L.F. x 8 (Av.)	÷ 9 =		426.7 S.Y.
Sta. 291+00.60	To	Sta. 294+15 (Lt)	314.40 L.F. x 16	÷ 9 =		558.9 S.Y.
Sta. 294+15	To	Sta. 294+75 (Lt)	60.00 L.F. x 14 (Av)	÷ 9 =		93.3 S.Y.
Sta. 294+75	To	Sta. 295+49.71 (Lt)	74.71 L.F. x 12	÷ 9 =		99.6 S.Y.
Sta. 291+50	To	Sta. 294+09 (Rt)	259.00 L.F. x 16	÷ 9 =		460.4 S.Y.
Sta. 294+09	To	Sta. 295+49.71 (Rt.)	140.71 L.F. x 13.5 (Av)	÷ 9 =		211.1 S.Y.
			Total		34,260.5 S.Y.	

301 Bituminous Aggregate Base Con't.

					F-Funds	T-Funds
Sta. 297+63.57	To	Sta. 298+61 (Lt)	97.43 L.F. x 3	÷ 9 =		32.5 S.Y.
Sta. 298+61	To	Sta. 300+00 (Lt)	139.00 L.F. x 9.5 Av.	÷ 9 =		146.7 S.Y.
Sta. 297+63.57	To	Sta. 299+00 (Rt.)	136.43 L.F. x 15 Av	÷ 9 =		227.4 S.Y.
Sta. 299+00	To	Sta. 303+00 (Rt.)	400.00 L.F. x 16	÷ 9 =		711.1 S.Y.
Sta. 300+00	To	Sta. 303+00 (Lt)	300.00 L.F. x 16	÷ 9 =		533.3 S.Y.
Sta. 303+00	To	Sta. 307+80	480.00 L.F. x 16 Av	÷ 9 =		853.3 S.Y.
			Sub-Total	=	34,260.5 S.Y.	17,671.6 S.Y.
			34,260.5 x 8	÷ 36 =	7613.4 C.Y.	17671.6 x 8 ÷ 36 = 3927.0 C.Y.
Add For Frederick & Johnny Cake (Calc)			210.9 S.Y. x 6	÷ 36 =	35.2 C.Y.	
Add For Step Out @ End Project			244.38 L.F. + 298.38 L.F.	= 542.76 L.F.		
			542.76 L.F. x .25 SF/L.F.	÷ 27 =	5.0 C.Y.	
Add For Step-Out on Heaton-North R.D. & S.R. 46 (Calc)						
			2845 L.F. x .25 SF/L.F.	÷ 27 =		26.3 C.Y.
Add For Paved Berm @ End Project						
			542.76 L.F. - 93 L.F. (Drives) = 449.76 L.F. x 8	÷ 9 = 400.00 S.Y.		
			400.0 x 3	÷ 36 =	33.3 C.Y.	
Add For Wedge Course Over Existing Pav't. (From Sheet 11)				=	1072.9 C.Y.	
Add Two Non-Curbed Areas at Drives (Calc)			3.93 S.Y. x 8	÷ 36 =	8.7 C.Y.	87.1 C.Y.
				Total 301 =	8,768.5 C.Y.	4,040.4 C.Y.

F-Funds To General Summary 8,769 Cu. Yds. T-Funds 4,040 Cu. Yds.

310 Subbase

					U-Funds	T-Funds
Main Line						
Same as 301 Calculations				=	34,260.5 S.Y.	8,284.1 S.Y.
Heaton North Road						
Sta. 4+65	To	Sta. 6+80 (Lt.)	215.00 L.F. x 10.41 (Av)	÷ 9 =		248.7 S.Y.
Sta. 4+65	To	Sta. 5+00 (Rt.)	35.00 L.F. x 2.5 (Av)	÷ 9 =		9.7 S.Y.
Sta. 5+00	To	Sta. 6+80 (Rt.)	180.00 L.F. x 4	÷ 9 =		80.0 S.Y.
Sta. 6+80	To	Sta. 8+65	185.00 L.F. x 49.905	÷ 9 =		1025.8 S.Y.
Sta. 8+65	To	Sta. 9+22.16	57.16 L.F. x 58	÷ 9 =		368.4 S.Y.
Sta. 10+77.66	To	Sta. 13+95	317.34 L.F. x 58	÷ 9 =		2045.1 S.Y.
Sta. 13+95	To	Sta. 14+90	95.00 L.F. x 53.54 (Av)	÷ 9 =		565.1 S.Y.
Sta. 14+90	To	Sta. 18+00	310.00 L.F. x 16.54 (Av)	÷ 9 =		569.7 S.Y.
S.R. 46						
Sta. 286+70	To	Sta. 291+00.60 (Lt.)	430.20 L.F. x 9 (Av)	÷ 9 =		430.2 S.Y.
Sta. 286+70	To	Sta. 291+50 (Rt)	480.00 L.F. x 9 Av	÷ 9 =		480.0 S.Y.
Sta. 291+00.60	To	Sta. 294+15 (Lt)	314.40 L.F. x 17	÷ 9 =		593.9 S.Y.
Sta. 294+15	To	Sta. 294+75 (Lt)	60.00 L.F. x 15 Av	÷ 9 =		100.0 S.Y.
Sta. 294+75	To	Sta. 295+49.71 (Lt)	74.71 L.F. x 13	÷ 9 =		107.9 S.Y.
Sta. 291+50	To	Sta. 294+09 (Rt)	259.00 L.F. x 17	÷ 9 =		489.2 S.Y.
Sta. 294+09	To	Sta. 295+49.71 (Rt.)	140.71 L.F. x 14.5 (Av)	÷ 9 =		226.7 S.Y.
Sta. 297+63.57	To	Sta. 298+61 (Lt)	97.43 L.F. x 4	÷ 9 =		43.3 S.Y.
Sta. 298+61	To	Sta. 300+00 (Lt)	139.00 L.F. x 10.5 (Av)	÷ 9 =		162.2 S.Y.
Sta. 297+63.67	To	Sta. 299+00 (Rt.)	136.43 L.F. x 16 (Av)	÷ 9 =		242.5 S.Y.
Sta. 299+00	To	Sta. 303+00 (Rt.)	400.00 L.F. x 17	÷ 9 =		755.6 S.Y.
Sta. 300+00	To	Sta. 303+00 (Lt)	300.00 L.F. x 17	÷ 9 =		566.7 S.Y.
Sta. 303+00	To	Sta. 307+80	480.00 L.F. x 18 (Av)	÷ 9 =		360.0 S.Y.
			Sub-Total		34,260.5 S.Y.	18,354.8 S.Y.
			34,260.5 x 4	÷ 36 =	3806.7 C.Y.	18,354.8 x 4 ÷ 36 = 2039.4 C.Y.
Add For Step-Out @ End Project						
			542.76 L.F. x 0.33 SF/L.F.	÷ 27 =	6.6 C.Y.	
Add Subbase Under Curb & Gutter			23,598 L.F.			
			23,598.00 L.F. x 1.035 SF/L.F.	÷ 27 =	766.7 C.Y.	137.9 C.Y.
Added Thickness Under Curb & Gutter in Super Elevated Pav't.						
			1124.15 L.F. + 1335.69 L.F. = 2459.84 L.F.			
			2459.84 L.F. x 0.375 S.F./L.F.	÷ 27 =	31.6 C.Y.	2.6 C.Y.
Add Subbase Under Type 6 Curb @ Intersections (Calc)						
			672.72 L.F. x 0.33 S.F./L.F.	÷ 27 =	2.2 C.Y.	
Add Two Non-Curbed Areas at Drives (Calc)			33.3 S.Y. x 4	÷ 36 =	4.4 C.Y.	6.0 C.Y.
			Total 310	=	4618.2 C.Y.	2185.9 C.Y.

F-Funds To General Summary = 4618 Cu. Yds T-Funds 2186 Cu. Yds.

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

TRU-422-(14.70)-(16.38)

12
216

GENERAL SUMMARY

FUNDING
F = F-522(27)
T = T-4005(6)

TYPE CODE 6203 OR AS SHOWN

ITEM	7-8 F / 7-8 T	9-11 F / 9-11 T	F 16	F 17	F 18	F 19	F 20	F 21	F 22	F 23	F 24	F 25	T 26	T 27	F 28	F 29	F 30	34 F / 35 F	F 36	F 37	F 38	F 39	T 40	T 41	F 42	F 43	F 44	F 45	F 46	T 121	T 130-133	153 F / 153 T	T 7	F 100% Reinf. Fac.	F TOTAL	T TOTAL	ITEM	QUANT.	UNIT	DESCRIPTION
																																								ROADWAY
201	LUMP																																		Lump	Lump	201	LUMP	Lump	Clearing & Grubbing
202			13																		165					215				746	353	50		393	1149	202	1542	Lin.Ft.	Pipe Removed 24"& Under
														35	41																				41	35	202	76	Lin.Ft.	Pipe Removed over 24"
202			243	666	500	708	517	500	393	464	500	100	179	823	35		240	100	500	500	383	1049	1001	773	550	500	500	500	92		452				9540	3228	202	12,768	Lin.Ft.	Curb Removed as per plan
202									131	55							229						310											415	310	202	725	Lin.Ft.	Curb & Gutter Removed
202																																							
202															1		1				2				4	1	1	2		3	4	2			12	9	202	21	Ea.	Catch Basin Removed
202			2	4	2	2	3					1	5	1	2	1		1	2	2			3		1	3	1		2	2	1	2			31	12	202	43	Ea.	Catch Basin Abandoned
202																	36				96														132	0	202	132	Sq.Ft.	Sidewalk Removed
202			45		153		2						297	98	200						521		195	83		18				2063	529				939	3265	202	4,204	Sq.Yds.	Pavement Removed
202														181																					0	181	202	181	Lin.Ft.	Paved Gutter Removed
202			139																																139	0	202	139	Sq.Yds.	Wearing Course Removed
203			294	1134	1036	864	724	628	795	647	637	620	1065	646	979	838	228	532 / 839	887	374	684	665	720	1264	980	1015	1281	1080	121	3235	2424			240	17,442	9,354	203	27,036	Cu.Yds.	Excavation Not Including Embankment Construction
203			4	19	151	207	450	244	116	266	643	159	136	924	1611	1097	158	95 / 99	184	382	436	242	93	44	72	25	10	57	6	311	709				6,733	2,217	203	8,950	Cu.Yds.	Embankment
203		4601																																	0	4601	203	4601	Sq.Yds.	Subgrade Compaction
604											1	1					1																		3	0	604	3	Ea.	Monument Box Adjusted To Grade
604			1														3																		4	0	604	4	Ea.	Manhole Adjusted To Grade
604																															2				0	2	604	2	Ea.	Catch Basin Adjusted To Grade
604	10 / 3																																		10	3	604	13	Ea.	Standard Monument Assembly
606																325						224	101							250				549	351	606	900	Lin.Ft.	Guard Rail Type 5
606																3						1	1							3				4	4	606	8	Ea.	Anchor Assembly
606																4																		4	0	606	4	Ea.	Bridge Terminal Assembly Type A
410	1000 / 250																																	1000	250	410	1250	Cu.Yds.	Traffic Compacted Surface, Type A or B
410	1000 / 250																																	1000	250	410	1250	Cu.Yds.	Traffic Compacted Surface, Type C
616	80 / 20																																	80	20	616	100	Ton	Calcium Chloride
616	80 / 20																																	80	20	616	100	M-Gal.	Water
610																						1470	651											1470	651	610	2121	Sq.Ft.	Cellular Retaining Wall as per plan
																																							EROSION CONTROL - Type Code Y005
Spec	5600 / 1400																																	5600	1400	Spec	7000	Sq.Yds.	Temporary Seeding & Mulching
Spec	50 / 13																																	50	13	Spec.	63	M.Sq.Ft.	Mowing
Spec	12 / 3																																	12	3	Spec.	15	M-Gal.	Water
Spec	540 / 140																																	540	140	Spec.	680	Lin.Ft.	Temporary Slope Drains
Spec	720 / 180																																	720	180	Spec.	900	Cu.Yds.	Temporary Benches, Dikes, Dams & Sediment Basins
Spec	2800 / 700																																	2800	700	Spec.	3500	Sq.Yds.	Repair Seeding & Mulching
659			175	812	938	884	876	939	789	749	1475	468	654	1369	2449	1987	517	601 / 727	780	700	2231	566	305	495	1050	601	1039	1574	205	3254	4446				23,132.	10,523	659	33,655	Sq.Yds.	Seeding & Mulching
659		2.45 / 1.04																																	2.45	1.04	659	3.49	Tons	Commercial Fertilizer (12-12-12)
659		10.40 / 4.74																																	10.40	4.74	659	15.14	Tons	Agricultural Liming
																				93			35									1000		93	1035	660	1128	Sq.Yds.	Sodding

CALCULATIONS

403 ASPHALT CONCRETE (60-70) MAINLINE

STATION	ENDAREA	C.Y.
774+83	.0	3.16
776+00	1.46	26.52
778+00	5.70	35.18
780+00	3.80	22.22
782+00	2.20	18.44
784+00	2.78	19.38
786+00	2.45	16.86
788+00	2.10	15.18
790+00	2.00	15.18
792+00	2.10	30.92
794+00	6.25	31.66
796+00	2.30	20.38
798+00	3.20	27.04
800+00	4.10	55.00
802+00	10.75	41.39
803+00	11.60	28.33
804+00	3.70	26.86
806+00	3.55	24.62
808+00	3.10	17.96
810+00	1.75	4.27
811+11.40	0.32	1.38
812+31.40	0.30	1.33
813+51.40	0.30	2.01
815+00	0.43	3.44
817+00	0.50	4.38
819+00	0.68	2.76
820+00	0.81	1.31
820+87.09	.0	0.76
822+07.09	0.34	(T)0.76
823+27.09	.0	(T)1.01
823+87.09	0.91	(T)1.58
826+00	2.03	(T)9.50
827+00	3.10	(T)8.67
828+00	1.58	(T)5.52
829+00	1.40	(T)21.58
830+00	10.25	(T)42.13
831+00	12.50	(T)37.78
832+00	7.90	35.38
834+00	1.65	20.00
836+00	3.75	28.18
838+00	3.86	12.30
839+00	2.78	4.21
839+43(Back)	2.50	
841+00(Ahead)	5.22	39.96
843+00	5.57	23.98
844+00	7.38	84.66
846+63(Ahead)	10.00	
864+31(Ahead)	.0	3.16
864+67	4.74	5.60
865+00	4.42	15.02
866+00	3.69	10.31
867+00	1.88	9.59
868+00	3.30	26.86
870+00	3.95	25.56
872+00	2.95	18.88
874+00	2.15	8.70
875+00	2.55	4.72
876+00	.0	0.00
876+19.41	.0	0.41
876+59.41	0.55	0.78
876+99.41	0.51	1.39
877+79.41	0.43	2.10
879+00	0.51	3.78
881+00	0.51	2.88
882+72.74	0.39	1.39
883+52.74	0.55	1.76
884+32.74	0.64	1.16
884+72.74	0.93	

STATION	ENDAREA	C.Y.
885+00	.0	0.47
885+00	.0	2.00
886+00	1.08	5.26
887+00	1.76	17.52
889+00	2.97	7.54
890+00	1.10	14.82
892+00	2.90	(T)0.15
893+00	2.58	(T)7.96
894+00	1.72	(T)8.28
895+00	1.26	(T)3.61
896+00	2.64	(T)4.35
896+25	6.76	(T)4.32
896+50	2.56	(T)3.96
897+00	1.71	(T)8.91
898+00	3.10	(T)10.28
899+00	2.45	(T)15.66
901+00	1.78	9.92
903+00	0.90	14.59
904+00	6.98	17.24
905+00	2.33	16.66
907+00	2.17	19.88
909+00	3.20	29.34
912+00	2.08	27.93
915+00	2.95	22.78
917+00	3.20	23.14
919+00	3.05	26.86
921+00	4.20	22.26
922+92.38(Back)	2.05	
S.R. 46		
286+75	.0	(T) 1.45
287+00	3.12	(T)9.78
288+00	2.16	(T) 4.67
289+00	5.76	(T) 2.89
290+00	1.20	(T) 4.88
292+00	2.82	(T) 8.00
294+00	2.04	(T)9.56
295+00	3.12	(T)12.46
296+10(Back)	3.00	
296+75(Ahead)	2.75	(T)3.21
298+00	2.96	(T)10.52
299+00	2.72	(T)6.96
300+00	1.04	(T)4.37
301+00	1.32	(T)10.00
303+00	1.38	(T)9.56
305+00	1.20	(T)12.70
307+00	2.23	(T)4.45
307+70(Back)	1.20	
TOTAL 403 NO. 9	TO SHEET	1,550.32
TOTAL F	1,163.89	
TOTAL T	386.43	

T = 4.96
F = 4.96

301 BITUMINOUS AGGREGATE BASE (Over Existing Pav't)

STATION	ENDAREA	C.Y.
810+50	.0	9.58
811+11.40	8.43	57.80
812+31.40	17.58	73.12
813+51.40	15.32	83.20
815+00	14.91	106.34
816+00	13.80	91.34
819+00	10.86	43.65
820+00	12.71	47.84
820+87.09	16.95	71.74
822+07.09	15.33	58.5 (T)
823+27.09	11.00	17.90(T)
823+87.09	5.11	10.68(T)
825+00		
875+00	.0	9.03
876+00	9.75	7.67
876+19.41	11.60	17.35
876+59.41	11.82	17.91
876+99.41	12.36	38.90
877+79.41	13.90	65.09
879+00	15.25	108.52
881+00	14.05	94.21
882+72.74	15.40	43.77
883+52.74	14.14	36.43
884+32.74	10.45	12.93
884+72.74	7.00	7.75
885+00	8.35	24.32
886+00	4.78	4.43
886+50	.0	
TOTAL 301 No. 10	TO SHEET	1160.01
TOTAL F	1072.92	
TOTAL T	87.09	

304 8" AGGREGATE

From 301 Calculations 400.0 S.Y.
400.00 × 8 ÷ 36 = 88.9 C.Y.
F - FUNDS TO GENERAL SUMMARY 89 CU. YDS.

409 SEAL COAT AGGREGATE

From 301 Calculations 400.0 S.Y.
400.00 × .008 C.Y./S.Y. = 3.2 C.Y.
F - FUNDS TO GENERAL SUMMARY 3 C.U. YDS.

409 SEAL COAT BITUMINOUS MAT'L

From 301 Calculations 400.0 S.Y.
400.00 × 0.30 Gal./S.Y. = 120 Gal.
F - FUNDS TO GENERAL SUMMARY 120 GALS.

203 SUBGRADE COMPACTION HEATON NORTH RD.

Sta.	6+80	To	8+65	185.00 L.F. × 49.41 (Av.) ÷ 9 =	1,015.7 S.Y.
Sta.	8+65	To	9+22.16	57.16 L.F. × 57 ÷ 9 =	362.0 S.Y.
Sta.	9+22.16	To	9+64 (Lt.)	41.84 L.F. × 44.5 ÷ 9 =	206.9 S.Y.
Sta.	9+22.16	To	9+74 (Rt.)	51.84 L.F. × 12.5 ÷ 9 =	72.0 S.Y.
Add For Area in Returns (Calc.) 1193.2 S.F.				÷ 9 =	132.6 S.Y.
Sta.	10+36	To	10+77.66 (Lt.)	41.66 L.F. × 28.5 ÷ 9 =	131.9 S.Y.
Sta.	10+48	To	10+77.66 (Rt)	29.66 L.F. × 28.5 ÷ 9 =	93.9 S.Y.
Sta.	10+77.66	To	13+95	317.34 L.F. × 57 ÷ 9 =	2009.8 S.Y.
Sta.	13+95	To	14+90	95.00 L.F. × 54.54 (Av) ÷ 9 =	575.7 S.Y.
					4,600.5 S.Y.

T - FUNDS TO GENERAL SUMMARY 4,601 S.Y.

659 COMMERCIAL FERTILIZER

33,655 S.Y. × 0.00009 TON/S.Y. = 3.03 TONS
Add Special Temporary Fertilizer
7,000 S.Y. × 9 ÷ 1,000 × 10 lbs./1000 S.F. ÷ 2000 = 0.31 TONS
Add Special Refertilizing
3,500 ÷ 1000 × 15 = 52.5 lbs.
33,655 ÷ 2 ÷ 1000 × 15 = 252.5 lbs.
SUB-TOTAL 305.0 lbs. ÷ 2000 = 0.15 TONS
3.49 TONS

TO GENERAL SUMMARY 3.49 TONS F - FUNDS 2.45 TONS T - FUNDS 1.04 TONS

659 AGRICULTURAL LIMING

33,655 S.Y. × 0.00045 TON/S.Y. = 15.14 TONS
TO GENERAL SUMMARY 15.14 F - FUNDS 10.40 TONS T - FUNDS 4.74 TONS

CROSS SECTION SHEET	BY	DATE	CHECKED BY	DATE
SURVEYED				
PLOTTED	G.R.			
MARKED				
DESIGNED	WCH	8-23-72	RLM	8-23-72
QUANTITIES				

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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TRU-422-(14.70)-(16.38)

GENERAL SUMMARY

FUNDING
F = F-522(27)
T = T-4005(6)

* See General Notes

TYPE CODE 6203 OR AS SHOWN

ITEM	SHEET NUMBER 7-8 F/T	9-11 F/T	F 16	F 17	F 18	F 19	F 20	F 21	F 22	F 23	F 24	F 25	T 26	T 27	F 28	F 29	F 30	34 F/F 35	F 36	F 37	F 38	F 39	T 40	T 41	F 42	F 43	F 44	F 45	F 46	T 121	T 130-133	153 F/T 153	F *100% Removal Inc.	F TOTAL	T TOTAL	ITEM	QUANT.	UNIT	DESCRIPTION
																																								Pavement
301		8769/4040															10																160	8619	4040	301	12,819	Cu.Yds.	Bituminous Aggregate Base 702.01(85-100) or 702.09 RT-11 or RT-12
304	20 5	89	14	15	56	14	123	27	9	57	36	29	17	27	14	21	42	7	44	67	30	78	37	49	33	18	38	51		114				932	249	304	1,181	Cu.Yds.	Aggregate Base
310		4618/2186															5														160		80	4543	2346	310	6,969	Cu.Yds.	Subbase
305			7			28		18		21		21	23	27			28	37	18		70	18	115	24		18				38		71		355	227	305	582	Sq.Yds.	8" Portland Cement Concrete Base
402		2598/1136	8	2	8	2	20	4	4	11	7	7	4	5	2	11	11	3	11	13	5	15	6	6	6	2	3	7		13	16		25	2735	1,186	402	3,946	Cu.Yds.	Asphalt Concrete (60-70)
403		1174/406																															1,174	406	403	1,580	Cu.Yds.	Asphalt Concrete (60-70)
404	12 3	2628/1138	11	5	11	7	22	5	10	15	8	14	7	9	5	11	26	4	13	15	8	16	7	10	8	4	9	10		34	57		25	2852	1265	404	4,142	Cu.Yds.	Asphalt Concrete (60-70)
409		120																															120	0	409	120	Gal.	Seal Coat Bituminous Material: 702.09, RT-9 or RT-10 or 702.02
409		3																															3	0	409	3	Cu.Yds.	Seal Coat Cover Aggregate No.8 MC-800 or MC-3000
407	200 50	4653/1861	26	8	5	19	3	7	14	14	5	14	5	7	2	23	46	2	8	8	4	3	2		6			2		19	37			5072	1681	407	6,753	Gal.	Tack Coat 702.04 MS-2 or RS-1 or 702.02, RC-70 or RC 250
408			24	27	106	26	232	40	41	121	76	92	60	77	39	37	106	32	106	141	65	172	67	95	64	36	78	100		230	421			1,761	950	408	2,711	Gal.	Bituminous Prime Coat: 702.09, RT-2 or RT-3
609			279	986	1000	990	929	1000	994	987	1000	1000	771	959	968	692	660	503/688	940	1000	887	879	866	1000	1000	1000	1000	465						20,046	3,596	609	23,642	Lin.Ft.	Combination Curb and Gutter Standard Type 2
609	80 20		102	77	83	95	76	84	331	244	124	526	321	247	251		344	36/228	255	417	392	654	539	179	82	183		240		1095	2549			4,904	4,950	609	9,854	Lin.Ft.	Concrete Curb Standard Type 6
612								4	16	8	4	37	3	8	2		8	9	8	13	1	5	3	6		10				12			125	32	612	157	Cu.Yds.	Concrete Traffic Island
452													70																52			0	52	452	52	Sq.Yds.	6" Plain Portland Cement Concrete Pavement
452	40 10		39		62								70	77	94						179		43	20					129	389			414	738	452	1152	Sq.Yds.	8" Plain Portland Cement Concrete Pavement
611																217																	217	0	611	217	Sq.Yds.	Reinforced Concrete Approach Slabs (T = 13")
																																							Drainage
603														71	61																		61	71	603	132	Lin.Ft.	48" Conduit Type "B"
603													218	280																			0	498	603	498	Lin.Ft.	42" Conduit Type "B"
601															20																		20	0	601	20	Cu.Yds.	Rock Channel Protection Type "B"
602															1.09																1.56/1.64		2.65	1.64	602	4.29	Cu.Yds.	Concrete Masonry
603			21	9	10		74	22	22	12	35	60	47	57	51	17	94	82			125	87	94	191	192	74	30	408	58	120	10		1435	567	603	2002	Lin.Ft.	12" Conduit Type "B"
603							6																			35							41	0	603	41	Lin.Ft.	12" Conduit Type "B" 706.08
603						126		60		52			61	87							81			345	38		300		57	139	25		682	689	603	1371	Lin.Ft.	15" Conduit Type "B"
603												60							81			185	500	40				148					326	688	603	1014	Lin.Ft.	18" Conduit Type "B"
603																						200				150	190			61			540	61	603	601	Lin.Ft.	21" Conduit Type "B"
603																					100	115			45	350				57			610	57	603	667	Lin.Ft.	24" Conduit Type "B"
603																					80										275		355	0	603	355	Lin.Ft.	27" Conduit Type "B"
603																													9				0	9	603	9	Lin.Ft.	12" Conduit Type C 706.01 E.S., 706.02, 706.08 E.S., 707.13
603			87																														87	0	603	87	Lin.Ft.	6" Conduit Type "C"
603																					94												94	0	603	94	Lin.Ft.	8" Conduit Type "C"
603						102																											102	0	603	102	Lin.Ft.	10" Conduit Type "C"
603			24	9	18	25	18	13	21	11				10	24	33		10/10	25	28										158	47	9		269	224	603	493	Lin.Ft.	12" Conduit Type "C"
603								5												315	107									206			427	206	603	633	Lin.Ft.	15" Conduit Type "C"
603																			239	172										249			411	249	603	660	Lin.Ft.	15" Conduit Type "C" 706.01 ES, 706.02, 706.08 ES or 707.13
603			28													32		275/265	260														595	0	603	595	Lin.Ft.	18" Conduit Type "C"
603			108	167														335															765	0	603	765	Lin.Ft.	21" Conduit Type "C"
603				107	163																												270	0	603	270	Lin.Ft.	24" Conduit Type "C" 706.01 ES, 706.02, 706.08 E.S. or 707.13
603					245																										175		420	0	603	420	Lin.Ft.	27" Conduit Type "C" 706.01 ES, 706.02, 706.08 ES or 707.13
603					92	30																									243		365	0	603	365	Lin.Ft.	30" Conduit Type "C"
603						290																											290	0	603	290	Lin.Ft.	33" Conduit Type "C"
603						180	12																										192	0	603	192	Lin.Ft.	36" Conduit Type "C"
603							488	500	500	500	500	500	282	149																			2988	431	603	3419	Lin.Ft.	42" Conduit Type "C"
603															81																		81	0	603	81	Lin.Ft.	48" Conduit Type "C"
															58																		58	0	603	58	Lin.Ft.	48" Conduit Type "C" Radius Pipe 706.02
603																															78		0	78	603	78	Lin.Ft.	21" Conduit Type "A" 706.02 or 706.08
603																															8		8	0	603	8	Lin.Ft.	30" Conduit Type "A" 706.02
603				226																										58			226	58	603	284	Lin.Ft.	24" Conduit Type "C"
603					10																												10	0	603	10	Lin.Ft.	6" Conduit Type "E" 706.08
																															6		0	6	603	6	Lin.Ft.	33" Conduit Type "A" 706.02

FED. RD. DIVISION	STATE	PROJECT	
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GENERAL SUMMARY

FUNDING
F = F-522(27)
T = T-4005(6)

★100% STATE

TYPE CODE 6203 OR AS SHOWN

ITEM	SHEET NUMBER 7-8 F/T	9-11 F/T	F 16	F 17	F 18	F 19	F 20	F 21	F 22	F 23	F 24	F 25	T 26	T 27	F 28	F 29	F 30	34 F/E 35	F 36	F 37	F 38	F 39	T 40	T 41	F 42	F 43	F 44	F 45	F 46	T 121	T 130-133	153 F/T 153	F TOTAL	T TOTAL	ITEM	QUANT.	UNIT	DESCRIPTION
																																						Drainage (Cont.)
604																												1					1 ✓	0 ✓	604	1 ✓	Ea.	Std. No. 2-2A Catch Basin
604			1																		1								3	1	2/2	2 ✓	6 ✓	604	8 ✓	Ea.	Std. No. 2-2B Catch Basin
604																		2/1												1	2/2	2 ✓	1 ✓	604	3 ✓	Ea.	Std. No. 2-3 Catch Basin, Modified as per plan
604					2	1	1				1			1								1		2	2	2	2		1	3		15 ✓	7 ✓	604	22 ✓	Ea.	Std. No. 3 Catch Basin
604			1	2	1	2	5	4	5	3	1	3	3	2	3	3	4		1	2	2	1	2	1	1	1			2	1	1	46 ✓	11 ✓	604	57 ✓	Ea.	Std. No. 3A Catch Basin
604			2																	1												3 ✓	0 ✓	604	3 ✓	Ea.	Std. No. 6 Catch Basin, Modified as per plan
604								1													1								1			2 ✓	1 ✓	604	3 ✓	Ea.	Std. No. 6 Catch Basin
604																														1		0 ✓	1 ✓	604	1 ✓	Ea.	Std. No. 2-A-8 Paved Shoulder Inlet
604																					1	1									1	2 ✓	1 ✓	604	3 ✓	Ea.	Std. No. 2-A-12 Paved Shoulder Inlet
Spec 1000★																																★1000 ✓		Spec.	★1000 ✓	Lin Ft.	Pipe Cleanout
Spec.			32																													32 ✓	0	Spec.	32 ✓	Lin Ft.	Trench Drain
604			2	4	5	3	2	4	3	2	2	3	2	3	1	2	1	2/1	2	3	2	4	6	3	1	3	3	3			3	2	60 ✓	17 ✓	604	77 ✓	Ea.	Std. No. 1 Manhole
604						2	2	1	2	1	1	1	2	1	1																		11 ✓	3 ✓	604	14 ✓	Ea.	Std. No. 1-A Manhole
604																													1		2	0 ✓	3 ✓	604	3 ✓	Ea.	Std. No. 1 Manhole Modified as per plan
604																															1/2	1 ✓	0 ✓	604	1 ✓	Ea.	Manhole Reconstructed to Grade as per plan
																																					Utilities-Type Code Y060
814													1	3		1	1	2/														4 ✓	4 ✓	814	8 ✓	Each	Water Valve Adjusted to Grade *
604																		2			3			2	1	1	1				3	7 ✓	6 ✓	604	13 ✓	Each	Manhole Adjusted to Grade (San.) *
																																					* 100% City of Niles Participation
Spec																																						
Spec																																						
614	Lump																															Lump ✓	Lump ✓	614	Lump	Lump	Maintaining Traffic
619	Lump																															Lump ✓	Lump ✓	619	Lump	Lump	Field Office
	Lump																															Lump ✓	Lump ✓		Lump	Lump	Construction Layout Stakes

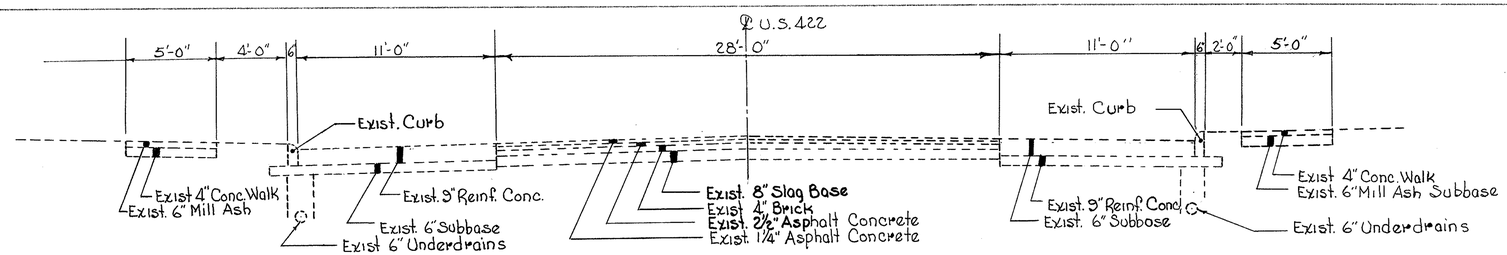
For Traffic Control Summary See Sheets 156 & 157

For Structure (Over 20') Summary See Sheet 185

FED. RD. DIVISION	STATE	PROJECT	
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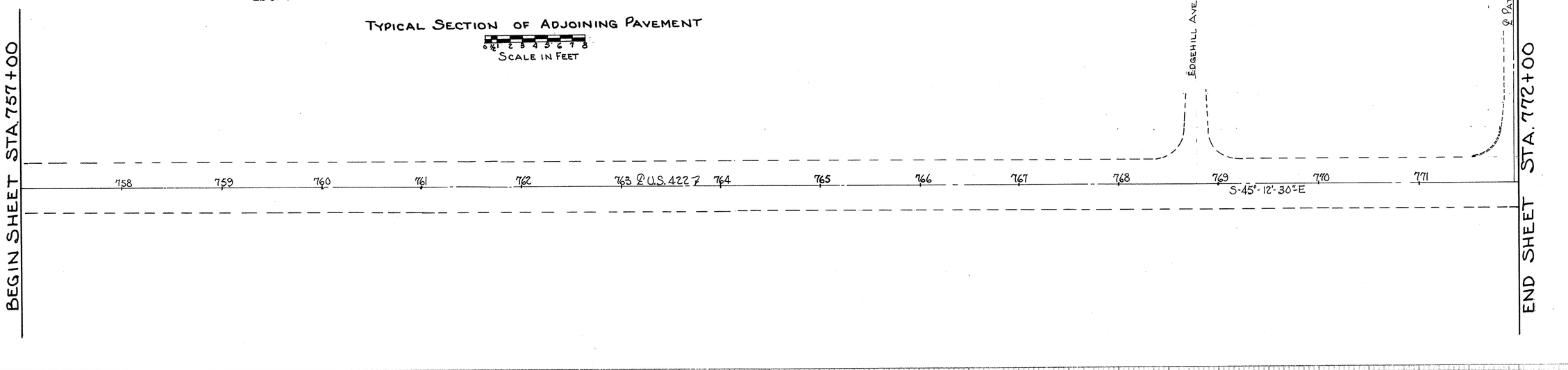
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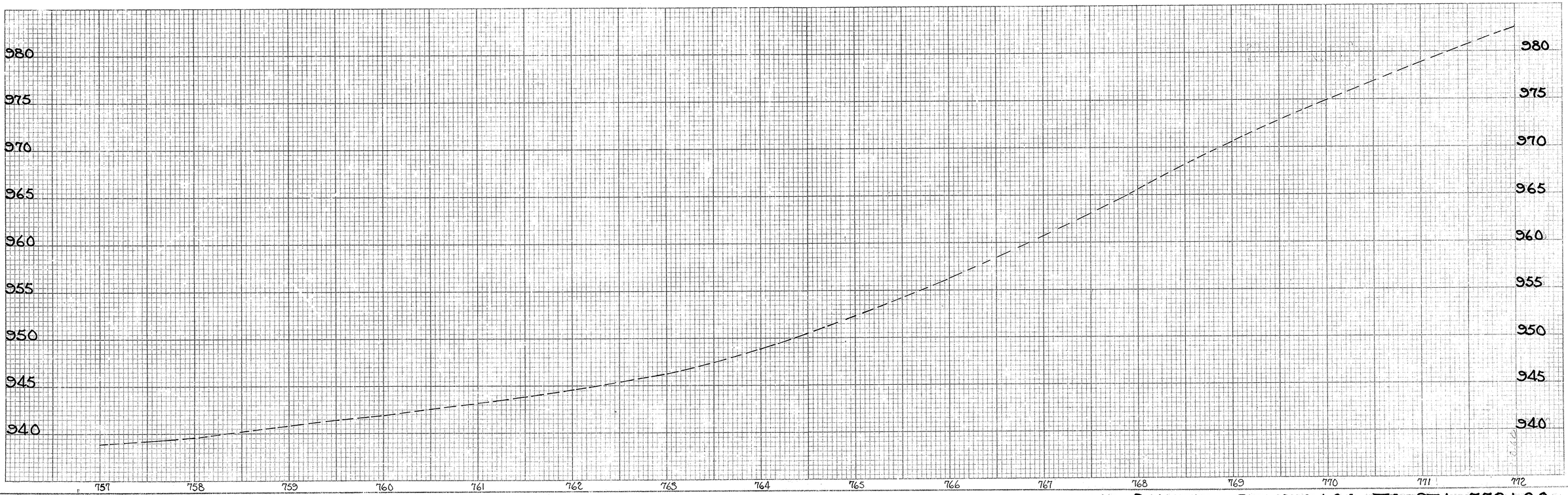
TRU-422-(14.70)-(16.38)



TYPICAL SECTION OF ADJOINING PAVEMENT

SCALE IN FEET





LINE SHEET STA. 757+00 TO STA. 772+00

	BY	DATE	CHECKED BY	DATE
SURVEYED	K.W.	4-17-70		
PLOTTED	K.W.	4-17-70		
INKED				
DESIGNED				
QUANTITIES				

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Def. Sta. 773+17.76
Δ = 1°-17' Lt.

Man @ U.S. 422

N.W. Cor. Second Full Brick Up From Concrete Walk — 60.0' — 78.80' — 70.50' — N.E. Cor. 4th. Full Brick up From Conc. Step

First Full Brick From Conc. Walk Bldg # 3424

POT STA. 774+57.60

2-Sty Blk Bldg.

1 Sty Brick & Blk. Bldg.

Bituminous Concrete Parking Area

CITY OF WARREN CORP LINE 774+57.60

1 Sty Brick & Blk Bldg.

2' Conc. Walk

BEGIN TAPER LT. STA. 774+82.60

END TAPER LT. STA. 776+39.98

Δ = 89°-30'
R = 25'
L = 39.05'
T = 24.78'

+76.38 @ WESTOVER DR. (Bit. Conc.) N-44°-00'-30"-E

STA. 772+00

BEGIN SHEET

STA. 777+00

END SHEET

@ Dr. Bit. Conc.

+51 @ Dr. Bit. Conc.

+22 @ Dr. Bit. Conc.

+34 @ Dr. Bit. Conc.

+60 @ Dr. Bit. Conc.

Guy, Hyd, Conc, Grass, Sign, Elec. Manh., Pole, Curb, Butt, Sod, Fence, Bush, Tree, Eaves, Trench, Bit. Conc., Retain Wall, Water Line, Storm, Drop Curb, Magnetic Detector, Mon. Set & Fd. & Used, Traffic Signal Pole, 3rd Marker, Ridge Ave. +08

12" To Remain in Service

202 Abandon & Pipe Thru

6" LP

6" Water Line

12" San

12" Storm

8" San

10" Storm Sewer

S-45°-12'-30"-E 773

S-46°-29'-30"-E

@ SURVEY U.S. 422

M.H. Adj to Grd.

To Remain in Service

21" (Not To Be Damaged)

BEGIN WORK STA. 773+63

BEGIN PROJECT STA. 776+39.98 SLM 14.70

SIGN - NOT TO BE DISTURBED

Δ = 90°
R = 25.00'
T = 25.00'
L = 39.27'

F-522 (27)

1 Sty Brick Building

Bit. Conc. Parking Area

4' Conc Walk

RIDGEVIEW PLAZA SHOPPING CENTER

NOTE: For Detail of Trench Drain See Sheet No. 146

Excavation	294	C.Y.
Embankment	4	C.Y.
Seeding	175	S.Y.

See Sheet No. 47 For Profile

DRIVES AND APPROACHES

MARK	STATION	SIDE	TYPE	LENGTH	WIDTH	Δ	452 Plain Port. Cem Conc 8" SY.	452 Plain Port. Cem Conc 8" CY.	404 Asph Conc 1¼"	304 Agg Base 8" CY.	407 Tack Coat @0.1 G/SY Gal.	408 Prime Coat @0.4 G/SY Gal.	402 Asph Conc. Var 1¼" CY.	402 Asph Conc. Var 1¼" CY.
D-6	775+60	Rt.	Bus	10'	34'	90°		3.1		4.3	9.0	7.7		0.7
D-7	776+16	Lt.	Bus	16	20	60°	39.4							
D-8	776+76.38	Lt.	Int		24'			3.4		9.2	5.6	16.5	1.0	1.4
	774+57.60	L-R						4.8			13.2			4.8
	774+82.60													
	TOTALS						39.4	11.3		13.5	25.8	24.2	7.9	

609 & 305

MARK	STATION FROM	STATION TO	SIDE	609 Curb Type 6 L.F.	609 Curb & Gutter L.F.	305 Port. Cem Conc Base S.Y.
CB-2	775+78	776+03	Rt.	39.27		
CB-3	776+39.98	776+64.98	Lt.	39.05		
CB-4	776+88.88	777+00	Lt.	23.49		
CG-1	774+57.60	776+39.98	Lt.		182.38	
CG-2	776+03	777+00	Rt.		97.00	
P-2	776+61	776+67	Lt.			7
TOTALS				101.81	279.38	7

202 REMOVAL ITEMS

MARK	STATION FROM	STATION TO	SIDE	202 Curb Rem'd As Per Plan L.F.	202 Wearing Course Rem'd S.Y.	202 Pav't Rem'd S.Y.	202 Pipe Rem'd Under 24" L.F.	202 C.B. Aban. Ea.
R-4	774+57.60	775+72	Lt.	115				
R-5	775+78	777+00	Rt.	128				
R-6	774+57.60	774+82.60	L-R		139			
R-7	775+80	776+23	Lt.			45		
R-12	775+74		Lt				13	
P-3	775+74		Lt					1
P-4	775+11		Rt.					1
TOTALS				243	139	45	13	2

DRAINAGE

MARK	STATION FROM	STATION TO	SIDE	603 Type "B" 12" L.F.	603 Type "C" 12" L.F.	603 Type "C" 18" L.F.	603 Type "C" 21" L.F.	604 Spec Trench Drain L.F.	604 No. 3-A C.B. Ea.	604 No 22 B C.B. Ea.	604 No 6 C.B. Mod Ea.	604 No 1 MH Ea.	604 MH Adj to Grd. Ea.
P-1	775+74	776+61	Lt.		87					1			
P-2	776+61	776+67	Lt.	21							1	1	
P-4	775+82		Rt.										1
P-5	775+77	775+92	Rt.			28					1	1	
P-6	775+92	777+00	Rt.				108						
P-7	775+92	776+15	Rt.		24				1				
P-8	775+43	775+75	Rt.					32					
TOTALS				21	87	24	28	108	32	1	1	2	2	1	3

LINE SHEET STA. 772+00 TO STA. 777+00

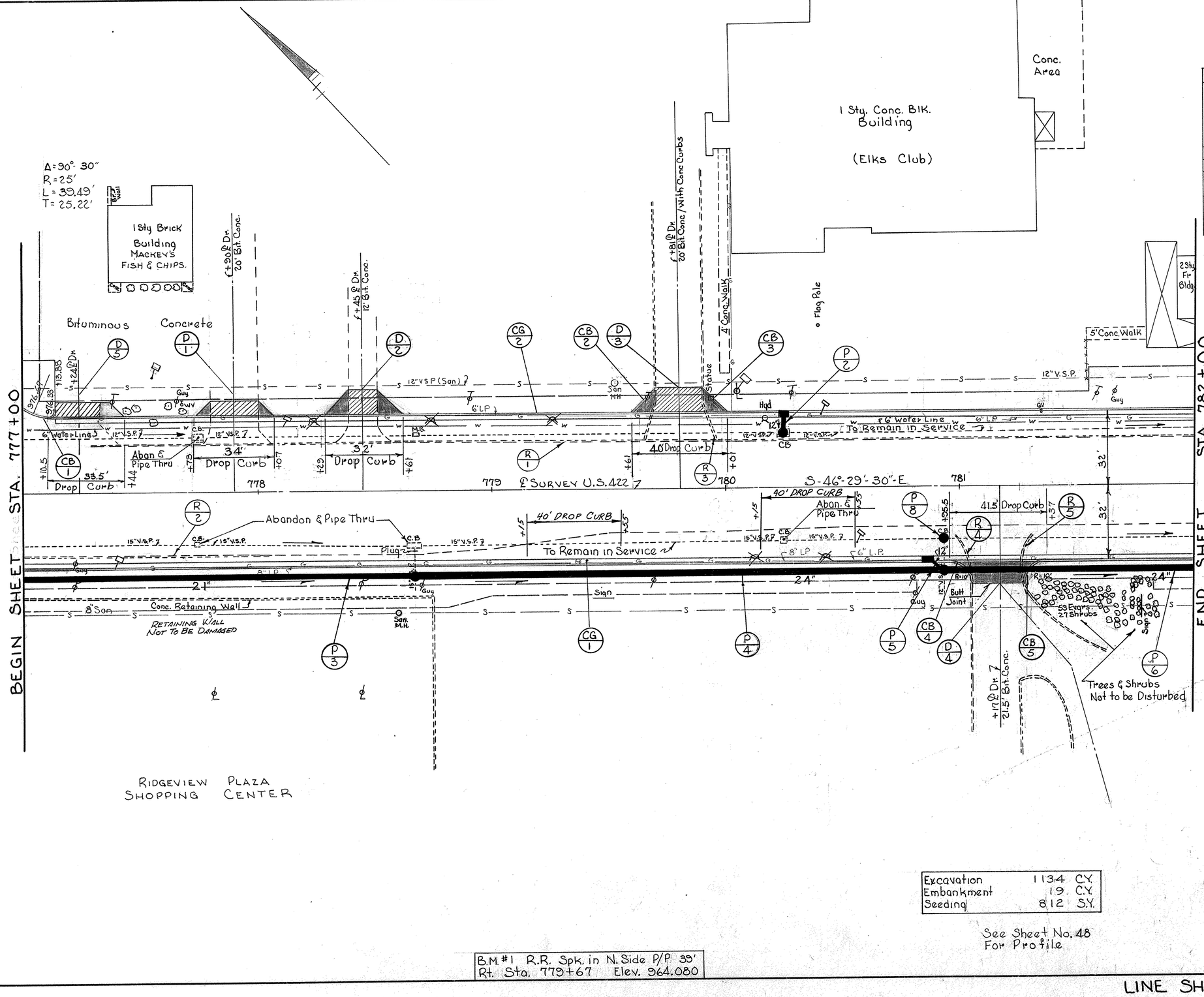
LINE SHEET	BY	DATE	CHECKED BY	DATE
SURVEYED	Knight	6-6-69	K.W.	7/30/69
PLOTTED	L.F.T.	7-8-69		
INKED	K.W.	12-3-70		
DESIGNED	R.L.M.	12-2-70		
QUANTITIES	R.L.M.	7-71	W.C.H.	8-71

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LINE SHEET	BY	DATE
SURVEYED	Knight	1-80-69
PLOTTED	L.F.T.	6-6-69
INKED	K.W.	7-10-69
DESIGNED	R.L.M.	12-4-70
QUANTITIES	R.L.M.	12-1-70
CHECKED	W.C.H.	12-7-70
	W.C.H.	7-77



DRIVES AND APPROACHES

MARK	STATION	SIDE	TYPE	LENGTH	WIDTH	Δ	304 Agg Base 6" CY.	304 Agg Base 8" CY.	402 Asph. Conc 1¼" CY.	407 Tack Coat @.1 GAL.	408 Prime Coat @.4 GAL.	404 Asph. Conc. Var. CY.	404 Asph. Conc. 1¼" CY.	404 Asph. Conc. 2" CY.
D-1	777+90	Lt	Bus	10'	20'	90°		2.5	0.4	2.2	4.4	0.6	0.4	
D-2	778+45	Lt	Res	10'	12'	90°	1.9			1.3	4.4	0.4		0.6
D-3	779+81	Lt	Bus	10'	20'	90°		2.5	0.4	2.2	4.4	0.6	0.4	
D-4	781+17	Rt	Bus	9'	21.5	90°		6.4	1.0		11.5		1.0	
D-5	777+24	Lt	Bus	16'	20'	90°		1.2	0.2	2.3	2.2	0.6	0.2	
TOTALS							14.5	2.0	8.0	26.9		4.8		

609

MARK	STATION FROM	STATION TO	SIDE	609 Comb. Curb & Gutter L.F.	609 Type 6 L.F.
CG-1	777+00	782+00	Rt.	500.00	
CG-2	777+1388	782+00	Lt.	486.12	
CB-1	777+00	777+1388	Lt.		18.00
CB-2	779+61	777+71	Lt.		14.00
CB3	779+91	780+01	Lt.		14.00
CB-4	780+95.5	781+055	Rt.		15.70
CB5	781+27	781+37	Rt.		15.70
TOTALS				986.12	77.40

202 REMOVAL ITEMS

MARK	STATION FROM	STATION TO	SIDE	202 Curb Rem'd. As Per Plan L.F.	202 C.B. Aban. Ea.
R-1	777+28	782+00	Lt.	472	
R-2	777+00	778+05	Rt.	105	
R-3	Drive @	779+81	Lt.	46	
P-1	777+00	782+00	Lt.		1
P-7	777+00	782+00	Rt.		3
R-4	780+98	781+05	Rt.	21	
R-5	781+27	781+31	Rt.	22	
TOTALS				666	4

* 706.01 ES, 706.02
706.08 ES or 707.13

DRAINAGE

MARK	STATION FROM	STATION TO	SIDE	603 Conduit Type "B" 12" L.F.	603 Conduit TYPE "C" 12" L.F.	603 Conduit TYPE "C" 21" L.F.	603 Conduit TYPE "C" 24" L.F.	603 Conduit TYPE "C" * 24" L.F.	604 No. 3-A C.B. Ea.	604 No. Man Hole Ea.
P-2	780+25		Lt.	9					1	1
P-3	777+00	778+67	Rt.			167				1
P-4	778+67	780+93	Rt.				226			1
P-5	780+85	780+93	Rt.		9				1	
P-6	780+93	782+00	Rt.					107		
P-8	780+93		Rt.							1
TOTALS				9	9	167	226	107	2	4

Excavation	1134	C.Y.
Embankment	19	C.Y.
Seeding	812	S.Y.

See Sheet No. 48 For Profile

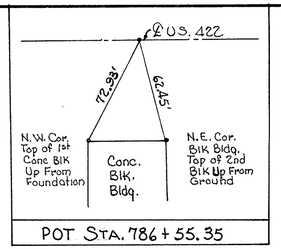
B.M. #1 R.R. Spk. in N. Side P/P 39' Rt. Sta. 779+67 Elev. 964.080

LINE SHEET STA. 777+00 TO STA. 782+00

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POT STA. 786 + 55.35

DRIVES AND APPROACHES

MARK	STATION	SIDE	TYPE	LENGTH	WIDTH	Δ	404 Asph. Conc. 1¼" CY	404 Asph. Conc. Var CY	404 Asph. Conc. 2" CY	402 Asph. Conc 1¼" C.Y.	452 Port. Cem Conc 8" S.Y.	304 Agg Base 6" C.Y.	304 Agg Base 8" C.Y.	407 Tack Coat @0.1 G/SY Gal.	408 Prime Coat @.44 G/SY Gal.
D-1	782+65	Rt	Bus	38'	21.5'	90°	3.4			3.4			22.0		33.6
D-2	782+85.6	Lt	Int.		24'	90°	3.4			3.4			21.7		33.0
D-3	784+21	Rt.	Res	8'	10'	90°			0.9			2.7			6.5
D-4	784+84	Rt.	Res	10'	16'	90°			1.3			3.9			9.3
D-5	785+66	Rt.	Bus.	7'	23'	90°	0.8			0.8			5.4		9.8
D-6	786+46	Rt.	Bus	7'	15'	90°	0.2	1.3		0.2			0.7	5.0	1.7
D-7	786+46	Lt.	Bus	8'	64'	90°					61.7				
TOTALS								1.3		7.8	61.7	56.4	5.0		103.9

609

	STATION FROM	STATION To	SIDE	Comb Curb & Gutter L.F.	Curb Type 6 L.F.
CB-1	782+44	782+54	Rt.		43.7
CB-2			Rt.		39.7
CG-1	782+00	787+00	Lt.	500	
CG-2	782+00	787+00	Rt	500	
TOTALS				1000	83.4

202 REMOVAL ITEMS

MARK	STATION FROM	STATION To	SIDE	Curb Rem'd As per Plan L.F.	Pav't Rem'd S.Y.	Catch Basin Aband. Ea.
R-1	782+00	786+00	Lt.	400		
R-2	786+79	786+87	Rt.		3	
P-10	782+00	787+00	Rt.			2
R-3	786+46		Lt.		150	
R-4	782+46	782+54	Rt.	50		
R-5	782+75	782+91	Rt.	50		
TOTALS				500	153	2

DRAINAGE

SIDE	STATION FROM	STATION To	SIDE	603 Conduit Type "C" 12" L.F.	* 24" L.F.	* 27" L.F.	30" L.F.	Type "B" 12" L.F.	Type E 706.08 6" L.F.	604 No.1 M.H. Ea.	No.3 C.B. Ea.	No. 3A CB Ea.
P-2	783+63		Lt.							1		
P-3	786+00		Lt.					10		1	1	
P-4	782+00	783+63	Rt.		163					1		
P-5	783+55	783+63	Rt.	9								1
P-6	783+53	783+63	Rt.						10			
P-7	783+63	786+08	Rt.			245				1		
P-8	786+00	786+08	Rt.	9							1	
P-9	786+08	787+00	Rt.				92					
P-11	785+20		Rt.							1		
TOTALS				18	163	245	92	10	10	5	2	1

Excavation	1036	C.Y.
Embankment	151	C.Y.
Seeding	938	S.Y.

See Sheet No. 49 For Profile

P-6 Intercept Exist. 6" Pipe at Approximate Sta. 783+53 38.5' Rt. and connect to Proposed M.H. at the Direction of the Engineer.

B.M. #2 Top of Iron Pin 14' North of Fence Corner 40' Lt. of Sta. 784+14 Elev. 940.680

* 706.01 E.S., 706.02 706.08 E.S OR 707.13

BEGIN SHEET STA. 782+00 — END SHEET STA. 787+00

LINE SHEET STA. 782+00 TO STA. 787+00

DATE	CHECKED BY	DRAWN BY
10/16/69	D.R.P.	E.A.
10/8/65	D.R.P.	K.W.
10/9/65	D.R.P.	K.W.
		R.L.M.
		E.A.M.
		Z.Z.
		E.A.

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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TRU-422-(14.70)-(16.38)

LINE SHEET	BY	DATE
SURVEYED	E.A.W.	10/8/69
DRAWN	K.W.	10/9/69
CHECKED	D.R.R.	10-17-69
DESIGNED	R.L.M.	11-24-70
QUANTITIES	R.L.M.	7-71

Brick Bldg.

STA. 787+00

BEGIN SHEET

STA. 792+00

END SHEET

788+31 36' Lt. 10" x 90° Bend

789+29 36' Lt. 10" x 45° Bend

Sign

Sign Not To Be Disturbed

Steel Post

Water Pump

Abandon & Pipe Thru

40' Drop Curb

℄ Survey U.S. 422 & 789

50' Drop Curb

88' Drop Curb

To Remain in Service

6" L.P.

6" water line TO REMAIN IN SERVICE

12" VSP

202 Aban. & Pipe Thru

52' Drop Curb

38' Drop Curb

Plug 12

℄ Guy

Cone. Curb

3' Cone. Walk

Bit. 12 VSP

+42 ℄ Dr. 7 30" Gravel

+45 ℄ Dr. 28' Bit. Conc.

+82 ℄ Dr. 34' Bit. Conc.

+138 ℄ Dr. 7 32' Bit. Conc.

+65 ℄ Dr.

Wood Fence

San. M.H.

8" San. ℄

Rest

Brick Bldg.

(Lane Carpet)

Δ = 88°-34'-30"
R = 30.00'
T = 29.26'
L = 46.37'
E = 11.91'

S-46°-29'-30"-E

Excavation	864	C.Y.
Embankment	207	C.Y.
Seeding	884	S.Y.

See Sheet No. 50 For Profile

Drives And Approaches

MARK	Station	Side	Type	Length	Width	Δ	402 Asph Conc 1¼" C.Y.	304 Agg Base 8" C.Y.	407 Tack Coat @0.1 GAL	408 Prime Coat @0.4 GAL	404 Asph Conc. 1¼" C.Y.	404 Asph Conc. Var C.Y.
D-1	787+43	Rt	Bus	10'	30'	85°	1.5	9.9		17.8	1.5	
D-2	788+24	Lt.	Bus	8'	28'	90°			2.6			0.7
D-3	789+45	Rt.	Bus	8'	28'	90°	0.5	3.2	6.9	5.8	0.5	1.9
D-4	789+57	Lt.	Bus	7'	24'	90°			2.6			0.7
D-5	789+82	Rt.	Bus	8'	28'	90°	See	D-3				
D-6	790+98	Rt.	Bus	10'	32'	90°	0.2	1.1	3.6	1.9	0.2	1.0
D-7	791+65	Rt.	Bus	16'	16'	90°			3.0			0.8
Totals							2.2	14.2	18.7	25.5	7.3	

609

MARK	Station From	Station To	Side	609 Comb Curb & Gutter L.F.	609 Curb Type 6 L.F.
CG-1	787+00	792+00	Lt.	500.0	
CG-2	787+00	791+90.3	Rt.	490.3	
CB-1	788+02	788+08	Lt.		9.42
CB-2	788+36	788+42	Lt.		9.42
CB-3	789+38	789+44	Lt.		9.42
CB-4	789+72	789+78	Lt.		9.42
CB-5	789+99	790+09	Rt.		15.71
CB-6	790+72	790+81	Rt.		15.71
CB-7	791+14	791+24	Rt.		15.71
CB-8	791+90.3	792+00	Rt.		10.0
Totals				990.3	94.81

Base Replacement

MARK	Station From	Station To	Side	305 Port. Cem Conc Base S.Y.
P-4	789+96	790+20	L-R	28
Total				28

202 Removal Items

MARK	Station From	Station To	Side	Curb Rem'd. As Per Plan L.F.	CB Aban Ea.
R-1	Drive @	788+24	Lt.	35	
R-2	787+00	792+00	Lt.	500	
R-3	Drive @	789+57	Lt.	35	
R-5	789+99	790+90	Rt.	113	
R-6	791+14	791+26	Rt.	25	
P-1	787+00	792+00	Lt.		2
Totals				708	2

Drainage

MARK	Station From	Station To	Side	603 Conduit Type "C" 15" L.F.	10" L.F.	12" L.F.	30" L.F.	33" L.F.	36" L.F.	Bends & Branches 10¾" x 90° Bend	10¾" x 45° Bend	604 No 1 MH Ea.	No 1A MH Ea.	No 3 C.B. Ea.	No 3A C.B. Ea.
P-2	788+31	789+33	Lt.		102					1	1				
P-3	789+33	789+96	Lt.	64								1			1
P-4	789+96	790+20	L-R	62											
P-5	787+00	787+30	Rt.				30					1			
P-6	787+15	787+30	Rt.			16									1
P-7	787+30	790+20	Rt.					290				1			
P-8	790+12	790+20	Rt.		9								1		
P-9	790+20	792+00	Rt.						180						
P-10	791+37		Rt.									1			
P-11	787+22		Rt.									1			
Totals				126	102	25	30	290	180			3	2	1	2

LINE SHEET STA. 787+00 TO STA. 792+00

FED. RD. DIVISION	STATE	PROJECT	
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DRIVES AND APPROACHES

MARK	STATION	SIDE	TYPE	LENGTH	WIDTH	Δ	404 Asphalt Concrete Vap. CY	404 Asphalt Concrete 1¼" CY	404 Asphalt Concrete 2" CY	407 Tack Coat @0.1 G/S.Y. GAL	408 Prime Coat @0.4 G/S.Y. GAL	402 Asph Conc 1¼" C.Y.	304 Agg. Base 6" CY.	304 Agg. Base 8" CY.
D-1	792+29.82	Rt	Int.	30'	25.5	68°34'30"		4.9			55.8	4.9		31.0
D-2	793+44	Rt	Bus	10'	36'	90°		1.8			20.4	1.8		11.4
D-3	794+18	Lt.	Bus	36'	24'	45°		3.8			44.0	3.8		24.4
D-4	795+00	Rt	Res	13'	12'	90°			1.6		11.4		4.7	
D-5	795+50	Rt	Bus	20'	12'	90°	0.2	1.1		0.7	12.4	1.1		6.9
D-6	795+90	Rt	Bus	13'	12'		0.1	0.9		0.4	9.8	0.9		4.1
D-7	796+50	Rt	Bus	18	12'		0.2	1.1		0.7	12.4	1.1		6.9
D-8	796+66	Lt.	Bus	26'	24'	60°		3.1			35.2	3.1		19.6
D-9	796+91	Lt	Bus	12'	24'	60°		1.0		0.8	8.3	0.9		1.7
D-10	794+30	Rt	Bus	13'	24'	90°		1.9			22.0	1.9		12.2
TOTALS								21.7		2.6	231.7	19.5		122.9

609

MARK	STATION FROM	STATION TO	SIDE	609 Comb Curb & Gutter L.F.	609 Type 6 Curb L.F.
CG-1	792+00	797+00	Lt.	500.00	
CG-2	792+70.75	797+00	Rt.	429.25	
CB-1	792+00	792+20.08	Rt.		36.37
CB-2	792+35.75	792+70.75	Rt.		39.89
TOTALS				929.25	76.26

202 REMOVAL ITEMS

MARK	STATION FROM	STATION TO	SIDE	Curb Rem'd As Per Plan L.F.	Pav't Remd. SY.	CB Aban EA.
R-1	792+00	797+00	Lt.	500		
R-2	792+46		Rt.	17		
R-3	792+93	793+00			2.0	
P-1	794+73		Lt.			1
P-12	792+00	797+00	Rt.			2
TOTALS				517	2.0	3

DRAINAGE

MARK	STATION FROM	STATION TO	SIDE	603 Conduit Type "B" 12" L.F.	603 Conduit Type "B" 12" 706.08 L.F.	603 Conduit Type "C" 12" L.F.	603 Conduit Type "C" 36" L.F.	603 Conduit Type "C" 42" L.F.	604 No 3 C.B Eq.	604 No 3A CB Eq.	604 No1 MH Eq.	604 No I-A MH Eq.	Bends & Branches 12"x 12" Tee	Bends & Branches 42" x 12" PreFab Tee
P-2	794+06		Lt.	11						1	1			
P-3	796+20		Lt.	11						1		1		
P-4	792+01	792+12	Rt	11					1					
P-5	792+00	792+12	Rt.				12				1			
P-6	792+07.5	792+12	Rt.		6									
P-7	792+12	792+46	Rt.	41						1				
P-8	792+12	796+12	Rt.					400			1			
P-9	794+75		Rt.			4				1				1
P-10	796+12	797+00	Rt.					88		1				
P-11	796+12	796+25	Rt.			14				1				
P-13	794+73		Rt.								1			
TOTALS				74	6	18	12	488	1	5	2	2		

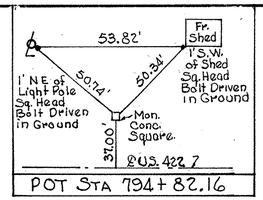
Excavation	724	C.Y.
Embankment	450	C.Y.
Seeding	876	S.Y.

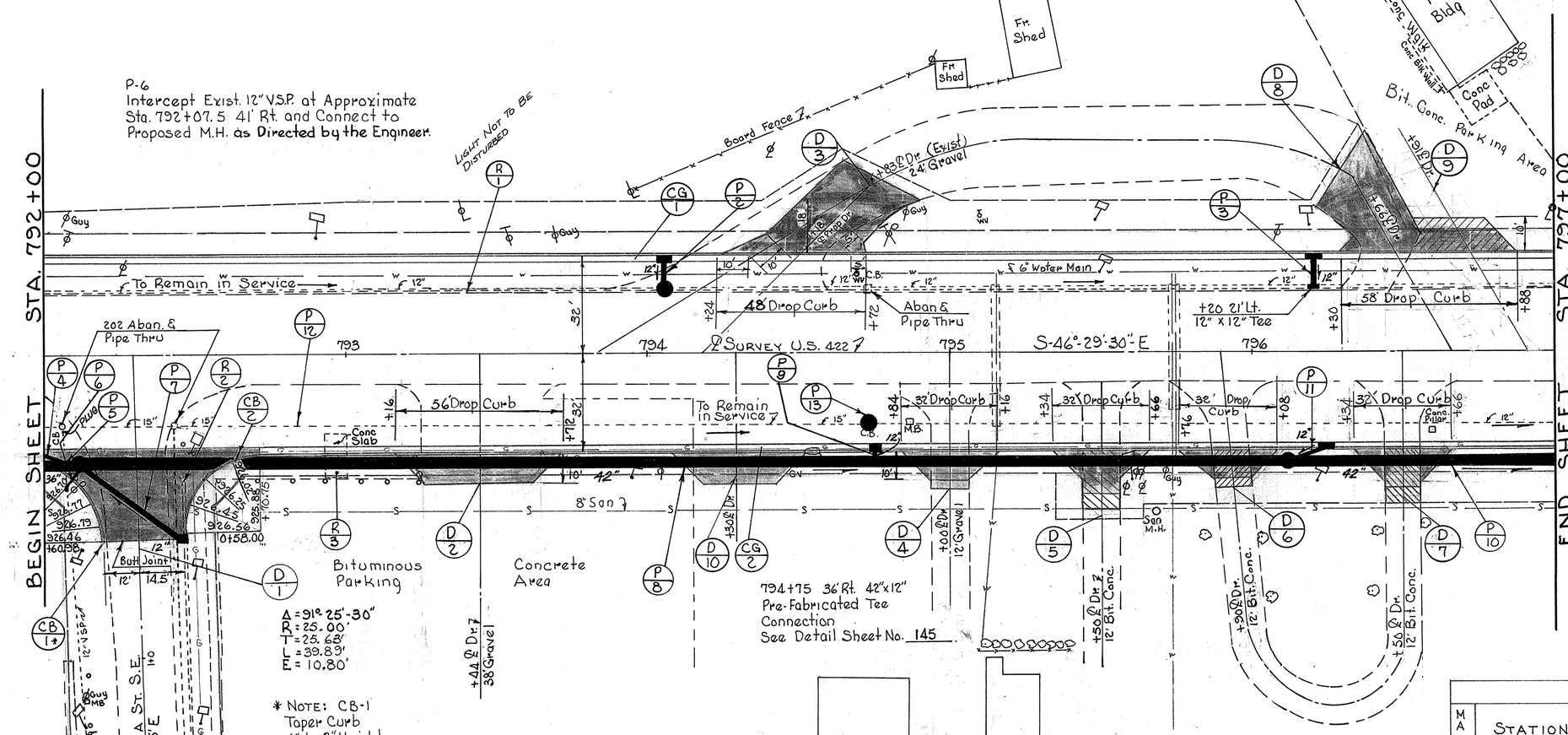
See Sheet No. 51 For Profile

B.M. #3 N.E. Cor. 1st concrete step 3' West of Drive and 6' North of house 102' Rt. of Sta. 794+87 Elev. 923.624

LINE SHEET STA. 792+00 TO STA. 797+00

LINE SHEET	BY	DATE
SURVEYED	E.A.	10/9/69
DRAWN	K.W.	10/13/69
TRACED	K.W.	11-24-70
DESIGNED	R.L.M.	11-23-70
QUANTITIES	R.L.M.	11-23-70
CHECKED BY	D.R.R.	10-17-69
DATE		8-71

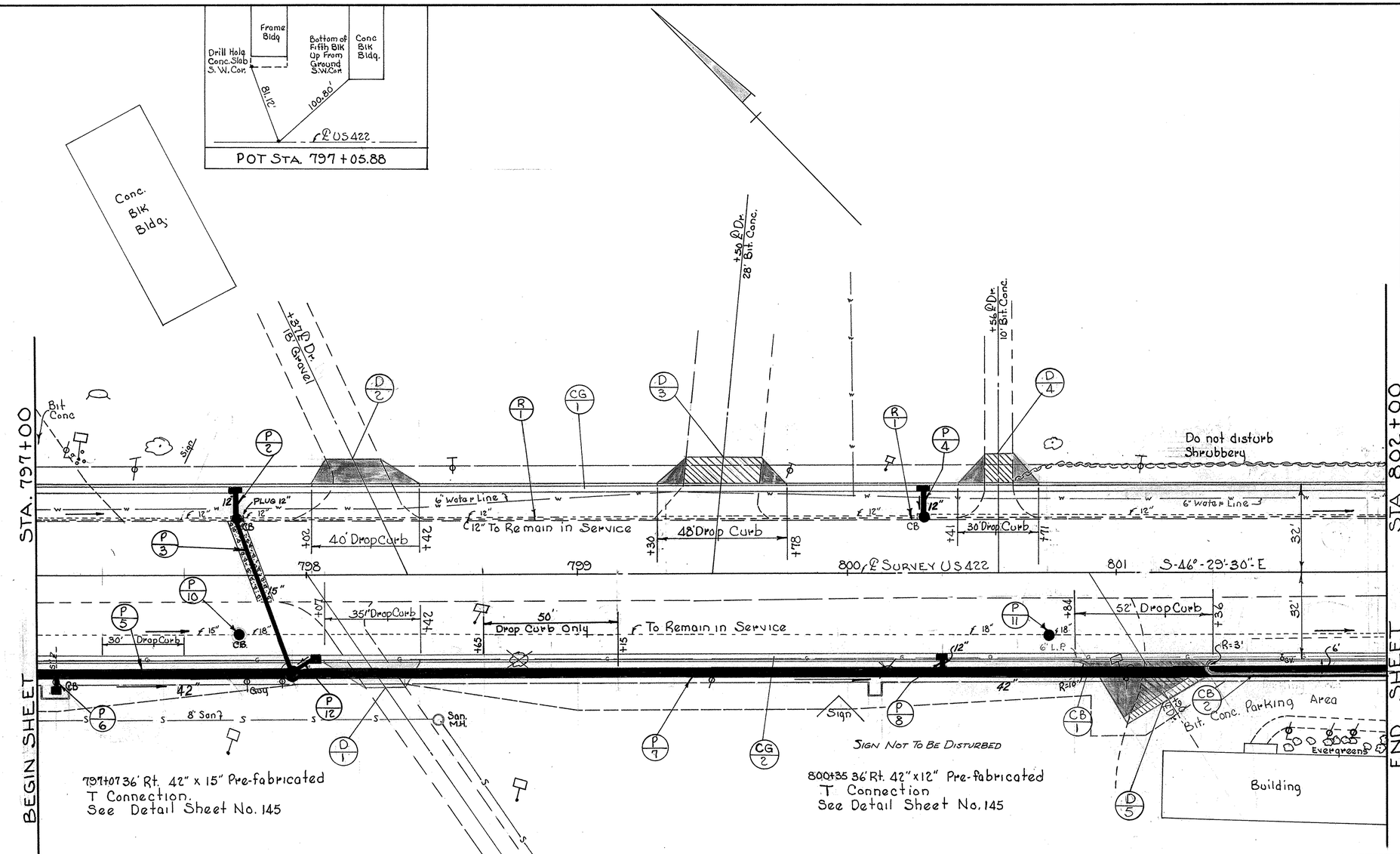




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Drives And Approaches

Mark	Station	Side	Type	Length	Width	Δ	404 Asph Conc Var. C.Y.	404 Asph Conc 1¼" C.Y.	407 Tack Coat @ 0.1 G/SY Gal.	408 Prime Coat @ 0.4 G/SY Gal.	304 Agg Base 8" C.Y.	402 Asph Conc 1¼" C.Y.
D-1	798+00	Rt.	Fld	11'	12'	55°					6.2	
D-2	798+37	Lt.	Bus	11'	18'	65°		1.2		13.3	7.4	1.2
D-3	799+50	Rt.	Bus	10'	28'	85°	0.9	0.4	4.4	3.1	2.5	0.4
D-4	800+56	Lt.	Bus	11'	10'	90°	0.3	0.4	1.1	4.9	2.7	0.4
D-5	800+90	Rt.	Bus	12'	35'	58°		2.0	1.1	18.4	8.6	1.8
Totals							5.2		6.6	39.7	27.4	3.8

609

Mark	Station From	Station To	Side	609 Comb Curb & Gutter L.F.	609 Curb Type 6 L.F.	612 Conc. Traffic Island Pav't C.Y.
CG-1	797+00	802+00	Lt.	500		
CG-2	797+00	802+00	Rt.	500		
CB-1	800+84	800+92.53	Rt.		10.21	
CB-2	801+33	802+00	Rt.		13.42	4.2
Totals				1000	83.63	4.2

202 Removal Items

Mark	Station From	Station To	Side	Curb Rem'd As per Plan L.F.
R-1	797+00	802+00	Lt.	500
Total				500

Base Replacement

Mark	Station From	Station To	Side	305 Port Cem Conc. Base S.Y.
P-3	797+74	797+95	L-R	18
Total				18

Drainage

Mark	Station From	Station To	Side	603 Conduit Type "B" 12" LF	603 Conduit Type "B" 15" LF	603 Conduit Type "C" 12" LF	603 Conduit Type "C" 15" LF	603 Conduit Type "C" 42" LF	604 No. 6 CB Ea.	604 No. 3-A CB Ea.	604 No. 1 MH Ea.	604 No. 1-A MH Ea.	Bends & Branches Pre Fab Tees 42"x12"	Bends & Branches Pre Fab Tees 42"x15"
P-2	797+74		Lt.	11						1	1			
P-3	797+74	797+95	L-R		60									
P-4	800+28		Lt.	11						1	1			
P-5	797+00	797+95	Rt.					95				1		
P-6	797+07		Rt.				5		1					1
P-7	797+95	802+00	Rt.					405						
P-8	800+35		Rt.			4				1			1	
P-9	797+00	802+00	Rt.											
P-10	797+74		Rt.								1			
P-11	800+75		Rt.								1			
P-12	797+95	798+03	Rt.			9				1				
Totals				22	60	13	5	500	1	4	4	1		

Excavation	628	C.Y.
Embankment	244	C.Y.
Seeding	939	S.Y.

See Sheet No. 52 For Profile

LINE SHEET	DATE	CHECKED BY	DATE
SURVEYED	8" E.A.	10/9/63	D.R.P.	10-17-63
PLOTTED	10/18/63	K.W.	
INKED	11/17/70	K.W.	
DESIGNED	11/16/70	R.L.M.	
QUANTITIES	6-17-71	R.L.M.	

LINE SHEET STA. 797+00 TO STA. 802+00

FED. RD. DIVISION	STATE	PROJECT	
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TRU-422-(14.70)-(16.38)

+ Chiseled in Top of Conc. Curb to Cemetery Entrance.

N.W. Cor Stone Planter with Flag Pole in Center Cemetery Entrance

98.47'
112.98'
63.24'

LUS 422 ? Nail

POT STA 805+00

C E M E T E R Y

NOTE:
For Drives Sta. 804+40 Lt. and Sta. 807+41 Lt. Transition Gutter From 2' to 1' width in last 10' to Meet Existing Curb and Gutter.

STA. 802+00

STA. 807+00

BEGIN SHEET

END SHEET

Do not disturb shrubbery

Shrubs

8" Water Line

W.M. Pit

Meet Exist. Curb & Gutter

+10 @ Dr. 18' Bit. Conc

Exist. Curb & Gutter

Exist. Curb & Gutter

Flag Pole

Stone Planter

Sign

To Remain in Service

f LUS 422

803 804 805 806

S-46°-29'-30"-E

30' Drop Curb

To Remain in Service

38.6' Drop Curb

18" VSP

46.7' Drop Curb

46.7' Drop Curb

52' Drop Curb

18" VSP

CB.

6" L.P.

42"

24'

Bit Cone

+35 @ Dr. 20' Bit. Conc

+43 @ Dr. 24' Bit. Conc

+87 @ Dr. 30' Bit. Conc

+81 @ Dr. 28' Bit. Conc

+63 @ Dr. 35' Bit. Conc

Dead Water Line

Phone Booth

Sign

Post Office Box

Bldg

Miniature Golf Course

Bit. Conc.

Conc. Walk

Parking Area

Bituminous Concrete Parking

Sta. 804+65 36' Rt.
42" x 12" Pre fab
T-Connection
See Detail Sheet 145

1 Sty Brick Bldg.

Excavation	795	C.Y.
Embankment	116	C.Y.
Seeding	789	S.Y.

BM #4 N.E. Cor. Concrete Porch at East End of Bldg. (Dino's Restaurant) 117' Rt. Sta. 805+72 Elev. 917.716

See Sheet No. 53 For Profile

DRIVES AND APPROACHES

MARK	STATION	SIDE	TYPE	LENGTH	WIDTH	Δ	404 Asphalt Concrete 1¼" CY.	404 Asphalt Concrete Var. CY.	304 Aggregate Base Var. CY.	304 Aggregate Base 8" CY.	402 Asph Conc 1¼" C.Y.	407 Tack Coat @0.1 G/SY GAL	408 Prime Coat @0.4 G/SY GAL
D-1	802+35	Rt.	Bus	12'	24'	90°	0.9	2.6		1.0	0.8	0.7	8.2
D-2	803+43	Rt.	Bus	10'	24'	60°		0.9				3.2	
D-3	803+87	Rt.	Bus	12'	28'	57°		0.9				3.3	
D-4	804+40	Lt.	Bus	25'	18'	50°	2.1		3.0	2.0	1.8	1.5	17.8
D-5	804+81	Rt.	Bus	12'	28'	57°		0.9				3.3	
D-6	805+63	Rt.	Bus	12'	34'	57°	1.3	0.7	3.2		1.3	2.3	15.4
TOTALS								10.3		9.2	3.9	14.3	41.4

609

MARK	STATION FROM	STATION TO	SIDE	609 Comb. Curb & Gutter L.F.	609 Type 6 Curb L.F.	612 Concrete Traffic Island Pavement C.Y.
CG-1	802+00	804+67	Lt.	267.54		
CG-2	804+89	806+93	Lt.	226.38		
CG-3	802+00	807+00	Rt.	500.00		
CB-1	802+00	802+21	Rt.		27.42	1.2
CB-2	802+45	803+08.4	Rt.		76.24	3.8
CB-3	803+35.34	803+44	Rt.		10.47	
CB-4	803+84.5	803+92.9	Rt.		9.95	
CB-6	804+28.2	804+86.9	Rt.		52.47	3.4
CB-8	805+22.2	805+65.9	Rt.		62.37	2.5
CB-9	806+07.2	806+83.6	Rt.		91.97	4.6
TOTALS				993.92	330.89	15.5

202 REMOVAL ITEMS

MARK	STATION FROM	STATION TO	SIDE	202 Curb Rem'd As per Plan L.F.	202 Curb & Gutter Rem'd L.F.
R-1	802+00	804+18	Lt.	218	
R-2	805+00	806+75	Lt.	175	
R-3	804+18	804+67	Lt.		55
R-4	804+87	805+00	Lt.		36
R-5	806+76	806+96	Lt.		40
TOTAL				393	131

DRAINAGE

MARK	STATION FROM	STATION TO	SIDE	603 Conduit Type "B" 12" LF.	603 Conduit Type C 12" L.F.	603 Conduit Type C 42" L.F.	604 No 3-A CB Eq.	604 No 1 MH Eq.	604 No 1-A MH Eq.	Bends & Branches 42"x12" Pre-fab Tee
P-2	804+23		Lt.	11			1	1		
P-3	806+65	806+66	Lt.	11			1	1		
P-4	802+00	802+17	Rt.			17			1	
P-5	802+11	802+17	Rt.		7		1			
P-6	802+17	806+74	Rt.			457			1	
P-7	804+65		Rt.		4		1			1
P-8	806+65	806+74	Rt.		10		1			
P-9	806+74	807+00	Rt.			26				
P-11	804+23		Rt.					1		
TOTALS				22	21	500	5	3	2	

LINE SHEET STA. 802+00 TO STA. 807+00

LINE SHEET	DATE	CHECKED BY
EA	10/2/69	
KW	10/13/69	D.R.P.
KW	11/19/70	
RLM	11/17/70	
RLM	6-17-71	

SURVEY
PLOT
INKED
DESIGNED
QUANTITIES

FED. RD. DIVISION	STATE	PROJECT	
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TRU-422-(14.70)-(16.38)

CURVE DATA & CONSTR.

P.I. STA. 817+29.87

Δ = 27°-37' Lt.	Q_s = 4°-00'
Δ_c = 19° 37'	Q_c = 1°-19'-59"
D_c = 2°-40'	L.T. = 200.04'
R_c = 2148.59'	S.T. = 100.04'
L_c = 735.69'	L.C. = 299.93'
L_s = 300.00'	E_s = 65.73'
T_s = 678.47'	K = 149.97'
X_c = 299.84'	P = 1.74'
Y_c = 6.98'	

DRIVES AND APPROACHES

MARK	STATION	SIDE	TYPE	LENGTH	WIDTH	Δ	304 Agg Base Var. C.Y.	304 Agg Base 8" C.Y.	404 Asph Conc. 1¼" C.Y.	404 Asph Conc. Var C.Y.	404 Asph Conc. 2" C.Y.	402 Asph Conc 1¼" C.Y.	407 Tack Coat @0.1 G/SY Gal	408 Prime Coat @0.4 G/SY Gal.
D-1	806+84	Rt.	Bus	13'	35'	60°	4.0		1.3	0.6		1.2	2.2	14.2
D-2	807+41	Lt.	Bus	13	18'	50°			1.4	1.8		1.4	2.8	2.4
D-3	807+41	Rt.	Bus	23'	8'	62°			4.5		0.1	1.1	.44	8.0
D-4	809+30	Rt.	Bus	23'	35'	60°	13.7			2.9	0.6		2.9	2.3	32.8
D-5	810+51	Rt.	Bus	20'	35'	30°	11.4			2.0	0.6		2.0	1.9	23.5
D-6	811+88	Rt.	Bus	24'	35'	60°			22.0	3.4	0.9		3.4	3.2	39.6
TOTALS								57.0		15.3		10.9	12.8	120.5

609 & 305

MARK	STATION FROM	STATION To	SIDE	609 Comb Curb&Gutter L.F.	609 Type 6 Curb L.F.	305 Port. Cem. Conc Base S.Y.	612 Conc. Traffic Island Pav't. C.Y.
CG-1	807+17	812+00	Lt.	487			
CG-2	807+00	812+00	Rt.	500			
CB-2	807+25	807+56.7	Rt.		49.67		
CB-3	809+23.6	809+32.3	Rt.		10.41		
CB-4	809+72	810+33	Rt.		73.84		3.9
CB-5	810+68	811+37.5	Rt.		82.34		4.4
CB-6	811+98	811+83	Rt.		27.82		
P-3	809+63	809+91	L-R			21	
TOTALS				987	244.08	21	8.3

202 REMOVAL ITEMS

MARK	STATION FROM	STATION To	SIDE	Curb Rem'd As Per Plan L.F.	Curb & Gutter Rem'd L.F.
R-1	807+17	807+66	Lt.		55
R-2	807+66	812+00	Lt.	434	
R-3	807+98	808+14	Rt.	30	
TOTALS				464	55

DRAINAGE

MARK	STATION FROM	STATION To	SIDE	603 Conduit Type "B" 12" L.F.	603 Conduit Type "B" 15" L.F.	603 Conduit Type "C" 12" L.F.	603 Conduit Type "C" 42" L.F.	604 No 3-A CB Ea.	604 No 1 MH Ea.	604 No. 1-A MH Ea.	Bends & Branches Pre-FabTee 42"x12"
P-2	809+63		Lt.	12				1	1		
P-3	809+63	809+91	L-R		52				1		
P-4	807+00	811+00	Rt.				400			1	
P-5	809+19		Rt.			4		1			1
P-6	810+94	811+00	Rt.			7		1			
P-7	811+00	812+00	Rt.				100				
TOTALS				12	52	11	500	3	2	1	

Excavation	647	C.Y.
Embankment	266	C.Y.
Seeding	749	S.Y.

NOTE: Lay proposed storm sewer from Sta. 810+51.40 To Sta. 812+00 on Curve with ℄ Conduit parallel to and 4.00 L.F. distant from face of curb.

809+19.36' Rt. 42"x12" Pre-fabricated Tee Connection See Detail Sheet No. 145

See Sheet No. 53 For Profile

BEGIN SHEET — STA. 807+00 — END SHEET — STA. 812+00

CEMETERY

T.S. Sta. 810+51.40

Meet Existing Curb & Gutter See Note Sheet No. 22

Grave Marker

Grave Markers

Do not disturb shrubbery

8" Water Line

809 ℄ U.S. 422

S-46°-29'-30"-E

Drop Curb

30' Drop Curb

51.4' Drop Curb

41' Drop Curb

48.5' Drop Curb

TO REMAIN IN SERVICE

Bit. Concrete Parking Area

Bituminous Concrete Parking Area

5' Conc. Sd. Walk

4' Conc. Walk

1½ Sty Fr.

El Rio Restaurant

Sign Not To Be Disturbed

806+84 ℄ Dr.

41+18 R. ℄ Dr.

+51 ℄ Dr.

+78 ℄ Dr.

Curb ℄

Existing Curb

8" Water Line

Gas

Gas Line

GV

WV

MB&PB

Bgd

Conc. Curb

LINE SHEET STA. 807+00 TO STA. 812+00

	BY	DATE
LINE SHEET	CHECKED BY	10-17-69
ONE	D.B.P.	
SURVEYED	E.A.	10/6/69
PLOTTED	K.W.	10/13/69
RUN	K.W.	11/18/70
DESIGNED	R.L.M.	11/16/70
QUANTITIES	R.L.M.	6-18-71

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

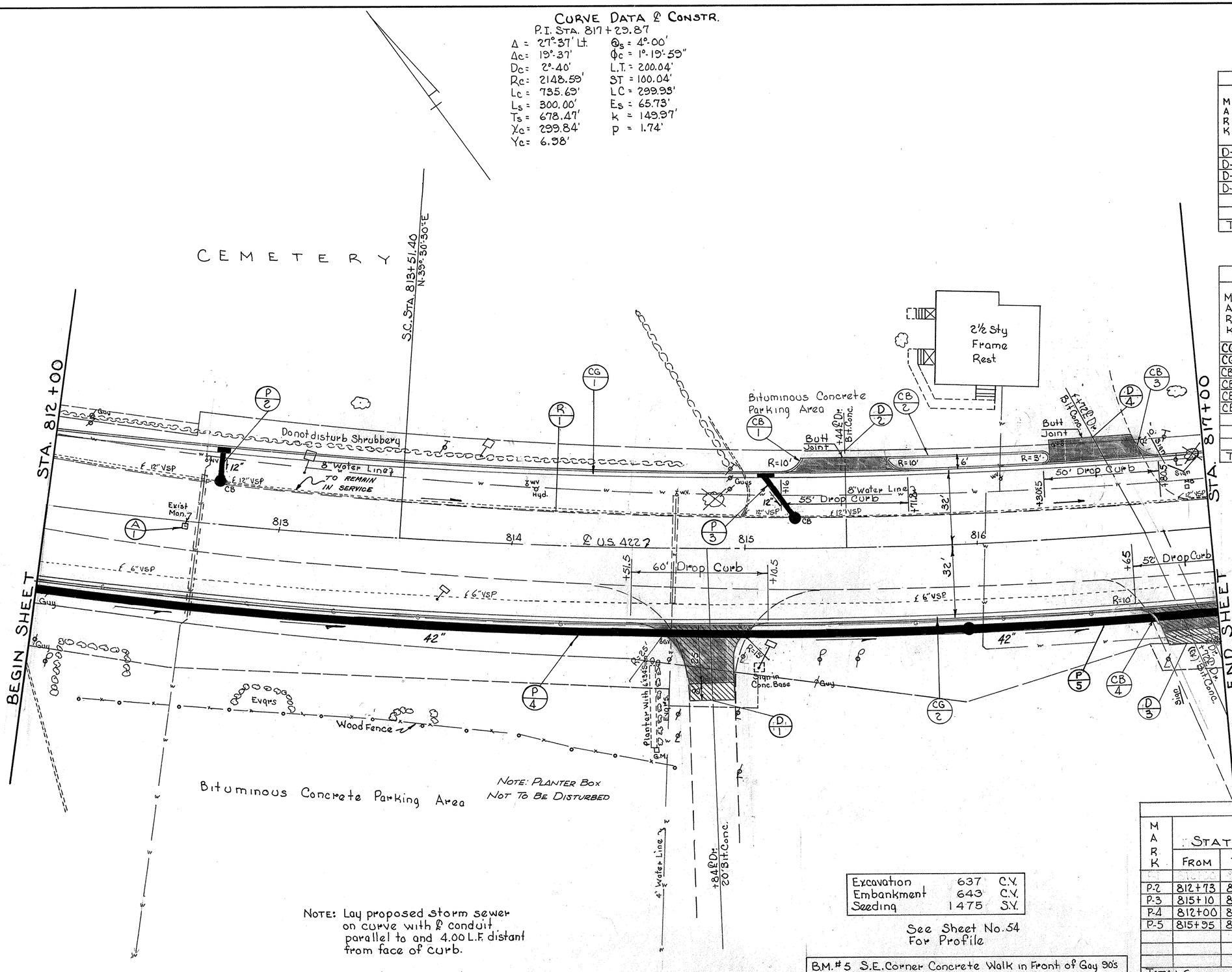
24
216

TRU-422-(14.70)-(16.38)

CURVE DATA & CONSTR.

P.I. STA. 817+29.87

Δ =	27°-37' Lt.	Θ_s =	4°-00'
Δc =	19°-37'	Φ_c =	1°-19'-59"
Dc =	2°-40'	L.T. =	200.04'
Rc =	2148.59'	ST =	100.04'
Lc =	735.69'	LC =	299.93'
Ls =	300.00'	Es =	65.73'
Ts =	678.47'	k =	149.97'
Xc =	299.84'	p =	1.74'
Yc =	6.98'		



NOTE: PLANTER BOX NOT TO BE DISTURBED

NOTE: Lay proposed storm sewer on curve with ℄ conduit parallel to and 4.00 L.F. distant from face of curb.

Excavation	637	C.Y.
Embankment	643	C.Y.
Seeding	1475	S.Y.

See Sheet No. 54 For Profile

B.M. #5 S.E. Corner Concrete Walk in Front of Gay 90's Lounge 58' Left of Sta. 816+19 Elev. 907.667

DRIVES AND APPROACHES

MARK	STATION	SIDE	TYPE	LENGTH	WIDTH	Δ	404 Asph. Conc. Var. C.Y.	404 Asph. Conc. 1¼" C.Y.	304 Agg. Base Var. C.Y.	304 Agg. Base 8" C.Y.	402 Asph. Conc. 1¼" C.Y.	407 Tack Coat @ 0.1 G/SY Gal.	408 Prime Coat @ 0.1 G/SY Gal.
D-1	814+84	Rt.	Bus	33'	20'		0.5	2.6	15.5	1.0	2.6	1.8	29.7
D-2	815+44	Lt.	Bus	10'	35'	90°		1.0		6.2	1.0		11.2
D-3	816+80	Rt.	Bus	16.5	35'	70°	0.8	1.5	3.6		1.5	2.7	17.5
D-4	816+72	Lt.	Bus	10'	35'	65°		1.9		9.8	1.9		17.7
TOTALS								8.3		36.1	7.0	4.5	76.1

609

MARK	STATION FROM	STATION TO	SIDE	609 Comb Curb & Gutter L.F.	609 Type 6 Curb L.F.	612 Concrete Traffic Island Pav't. C.Y.
CG1	812+00	817+00	Lt.	500		
CG2	812+00	817+00	Rt.	500		
CB-1	815+16	815+25.2	Lt.		11.59	
CB-2	815+62.6	816+33.5	Lt.		88.87	4.2
CB-3	816+71.44	816+80.5	Lt.		11.34	
CB-4	816+65	816+74.4	Rt.		12.21	
TOTALS				1000	124.01	4.2

604

MARK	STATION	SIDE	Mon. Box Adj. to Grd Ea.
A-1	812+60.46	Rt.	1
TOTAL			1

202

MARK	STATION FROM	STATION TO	SIDE	Curb Rem'd As Per Plan L.F.
R-1	812+00	817+00	Lt.	500
TOTAL				500

DRAINAGE

MARK	STATION FROM	STATION TO	SIDE	603 Conduit Type "B" 12" L.F.	603 Conduit Type "C"	603 Conduit 42" L.F.	604 No 3 CB Ea.	604 No 3-A CB Ea.	604 No 1 MH Ea.	604 No 1-A MH Ea.
P-2	812+73	812+74	Lt.	14			1		1	
P-3	815+10	815+22	Lt.	21				1	1	
P-4	812+00	815+95	Rt.			395				1
P-5	815+95	817+00	Rt.			105				
TOTALS				35		500	1	1	2	1

LINE SHEET STA. 812+00 TO STA. 817+00

DATE	BY	
10-29-69	D.R.P.	E.A.
10/16/69		K.W.
11/17/70		K.W.
		R.L.M.
		C.L.M.

SURVEYED
PLOTTED
INKED
DESIGNED
DRAWN
CHECKED

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

25/216

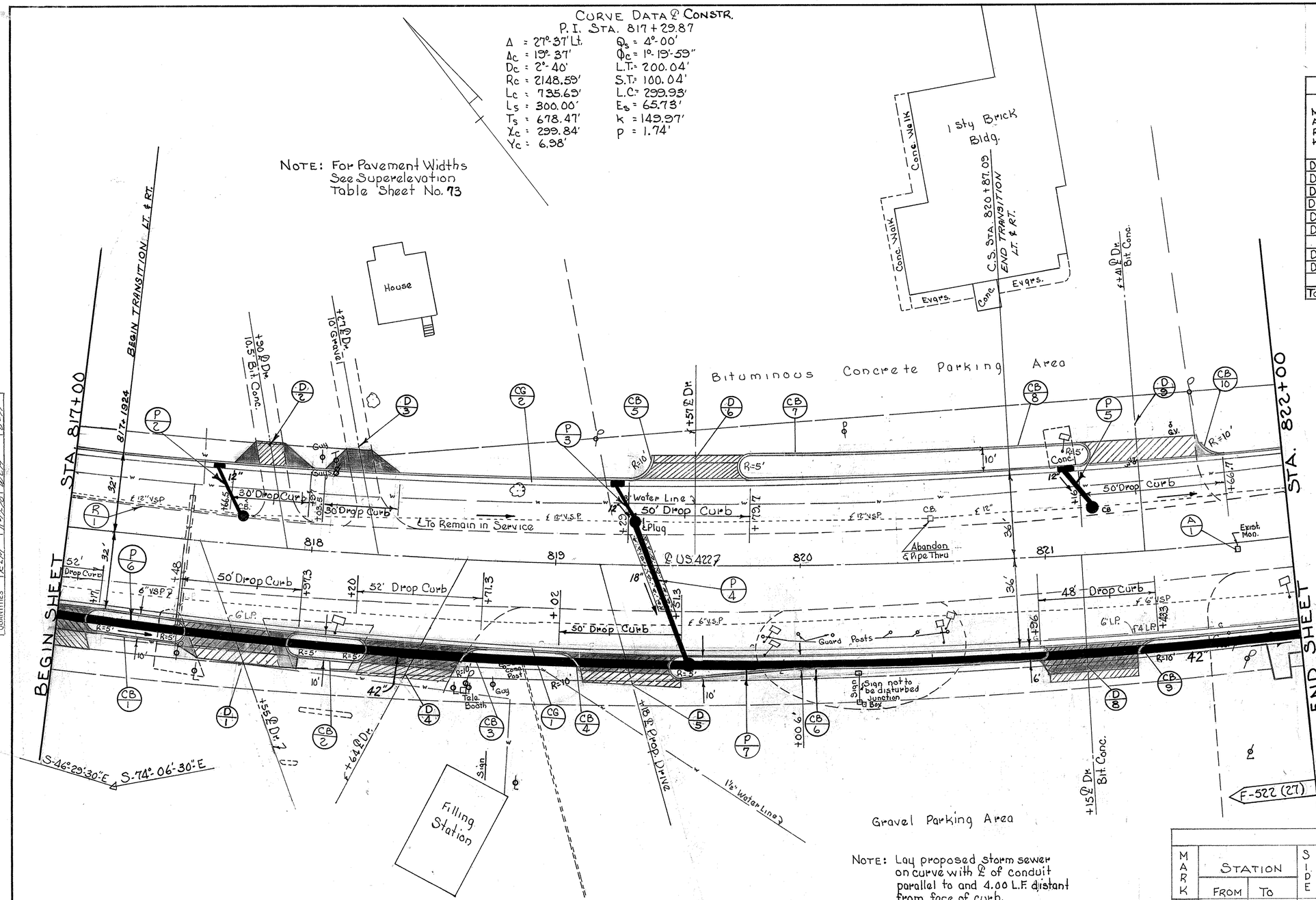
TRU-422-(14.70)-(16.38)

CURVE DATA & CONSTR.

P.I. STA. 817+29.87

Δ = 27°-37' Lt.	D_s = 4°-00'
Δ_c = 19°-37'	D_c = 1°-19'-59"
D_c = 2°-40'	L.T. = 200.04'
R_c = 2148.59'	S.T. = 100.04'
L_c = 735.65'	L.C. = 299.93'
L_s = 300.00'	E_s = 65.73'
T_s = 678.47'	k = 149.97'
X_c = 299.84'	p = 1.74'
Y_c = 6.98'	

NOTE: For Pavement Widths See Superelevation Table Sheet No. 73



DRIVES AND APPROACHES

MARK	STATION	SIDE	TYPE	LENGTH	WIDTH	Δ	304 Agg Base Var CY	304 Agg Base 6" CY	304 Agg Base 8" CY	404 Asph. Conc. Var CY	404 Asph. Conc. 1¼" CY	404 Asph. Conc. 2" CY	402 Asph Conc 1¼" CY	407 Tack Coat @0.1 G/SY Gal.	408 Prime Coat @0.4 G/SY Gal
D-1	817+55	Rt.	Bus	14.5	33.5	65°	2.6		3.3	0.5	1.7		1.7	1.9	20.1
D-2	817+90	Lt.	Res	10'	10'	75°		1.9		0.3		0.6		1.1	4.4
D-3	818+27	Lt.	Res	10'	10'	75°		3.7				1.2			8.9
D-4	818+64	Rt.	Res	14'	38.2	65°	5.7			0.6	1.4		1.4	2.1	16.4
D-5	819+18	Rt.	Bus	9'	35	75°	3.4			0.6	1.1		1.1	2.1	12.3
D-6	819+57	Lt.	Bus	9'	35	90°	3.4			0.3	1.1		1.1	1.2	12.1
D-8	821+15	Rt	Bus	14'	36'	90°	4.7			0.4	1.5		1.5	1.6	17.0
D-9	821+41	Lt.	Bus	9'	35	90°			4.5	2.4				4.0	1.0
TOTALS								29.2		13.7		6.8	14.0	92.2	

609 & 305

MARK	STATION FROM	STATION TO	SIDE	609 Comb Curb & Gutter L.F.	609 Curb Type 6 L.F.	305 Port. Cem. Conc. Base S.Y.	612 Conc. Traffic Island Pav't C.Y.
CG-1	817+00	822+00	Rt.	500			
CG-2	817+00	822+00	Lt.	500			
CB-1	817+12	817+53	Rt.		62.44		4.2
CB-2	817+92.3	818+25	Rt.		54.14		3.3
CB-3	818+62.24	818+71.3	Rt.		11.34		
CB-4	818+02	819+11.53	Rt.		12.74		
CB-5	819+29	819+39	Lt.		15.71		
CB-6	819+46.3	820+99	Rt.		169.89		13.1
CB-7	819+74.7	821+21	Lt.		192.72		16.5
CB-9	821+34.1	821+43.3	Rt.		11.69		
CB-10	821+56.7	821+66.7	Lt.		15.71		
P-4	819+32	819+54	L-R			21	
TOTALS				1000	526.38	21	37.1

202

MARK	STATION FROM	STATION TO	SIDE	Curb Rem'd As Per Plan L.F.
R-1	817+00	818+00	Lt.	100
TOTAL				100

604

MARK	STATION	SIDE	Mon. Box Adj. to Grd Eq.
A-1	821+81.02 BK. 821+77.96 Ahd.	Rt	1
	TOTAL		1

DRAINAGE

MARK	STATION FROM	STATION TO	SIDE	603 Conduit Type "B" 12" L.F.	603 Conduit Type "B" 18" L.F.	603 Conduit Type "C" 42" L.F.	604 No. 3-A CB Eq.	604 No. 1 MH. Eq.	604 No 1-A MH. Eq.	202 CB Aban Eq.
P-2	817+60	817+71	Lt.	23			1	1		1
P-3	819+25	819+32	Lt.	18			1			
P-4	819+32	819+54	L-R		60			1		
P-5	821+10	821+20	Lt.	19			1	1		
P-6	817+00	819+54	Rt.			254			1	
P-7	819+54	822+00	Rt.			246				
TOTALS				60	60	500	3	3	1	1

Excavation	620	C.Y.
Embankment	159	C.Y.
Seeding	468	S.Y.

See Sheet No. 54 For Profile

	BY	DATE	CHECKED BY	DATE
SURVEYED	E.A.	10/13/69		
PLOTTED	K.W.	10/16/69	D.R.P.	10-29-69
INKED	K.W.	11/18/70		
DESIGNED	R.L.M.	11/21/70		
QUANTITIES	R.L.M.	11-23-70	W.L.H.	11-25-70

LINE SHEET — E-FT

LINE SHEET STA. 817+00 TO STA. 822+00

FED. RD. DIVISION	STATE	PROJECT		26 / 216
2	OHIO			

TRU-422-(14.70)-(16.38)

CURVE DATA & CONSTR.
P.I. STA 817+29.87

Δ=27°-37'-Lt	Qs=4°-00'
Δc=19°-37'	Øc=1°-19'-59"
Dc=2°-40'	L.T.=200.04'
Rc=2148.59'	ST=100.04'
Lc=735.69'	LC=299.93'
Ls=300.00'	Es=65.73'
Ts=678.47'	K=149.97'
Xc=299.84'	p=1.74'
Yc=6.98'	

⊕ Cross Slope of Gutter to be 3/16"/Ft. at The Following Locations
Sta. 824+98 to Sta. 825+18(Rt), Sta. 826+23 to Sta. 826+45(Lt) Sta. 826+30 to Sta. 826+55
Cross Slope of Gutter to be Variable From 3/16"/Ft. To 1"/Ft. at the Following Locations
Sta. 824+98 to Sta. 824+83(Rt), Sta. 826+45 to Sta. 826+55(Lt) & Sta. 826+55 to Sta. 826+70(Rt.)

CURVE DATA & SURVEY
P.I. STA. 844+93.94
Δ = 20°-02'-30" Rt.
D = 0°-30'
R = 11459.16'
L = 4008.34'
T = 2024.85'
E = 177.46'

P.C. STA. 824+69.09

Δ = 95°-57'-12"
R = 35'
T = 38.84'
L = 58.61'

Δ = 94°11'-40"
R = 35'
T = 37.66'
L = 57.43'

Δ = 88°25'-25"
R = 35'
T = 31.20'
L = 50.96'

Δ = 86°-26'-39"
R = 35'
T = 32.89'
L = 52.80'

NOTE: For P-5 & P-6 & P-7 Details & Quantities See Sheet Nos. 119-120-121.

NOTE: LAY PROPOSED STORM SEWER ON CURVE TO STA. 823+87.09 WITH ℄ OF CONDUIT PARALLEL TO AND 4.00 L.F. DISTANT FROM FACE OF CURB.

Excavation	1065 ✓	C.Y.
Embankment	136 ✓	C.Y.
Seeding	654 ✓	S.Y.

305

MARK	STATION FROM	STATION TO	SIDE	305 Portland Cement Conc. Base S.Y.
P-8	824+82	824+87	L-R	23
TOTALS				23

DRIVES AND APPROACHES

MARK	STATION	SIDE	TYPE	LENGTH	WIDTH	452 Plain Port. Cem. Conc. 8" S.Y.	304 Aggregate Base Var C.Y.	304 Aggregate Base 6" C.Y.	304 Aggregate Base 8" C.Y.	404 Asphalt Concrete Var C.Y.	404 Asphalt Concrete 1¼" C.Y.	404 Asphalt Concrete 2" C.Y.	402 Asph Conc 1¼" C.Y.	407 Tack Coat @0.1 G/SY Gal.	408 Prime Coat @0.4 G/SY Gal.
D-1	823+09	Rt.	Bus	9'	40'		2.3		0.5	0.4	1.0		1.0	1.4	11.8
D-2	823+87	Rt.	Bus	5'	40'		2.4		0.2	0.4	1.0		1.0	1.4	11.8
D-3	824+21	Lt.	Res	14'	10'			4.5				1.5			10.7
D-4	824+36.5	Rt.	Bus	3'	30'	12.6									
D-5	825+67	Rt.	Bus	7'	35'	28.8									
D-6	826+28	Lt.	Bus	8'	30'	28.2									
D-7	826+37	Rt.	Bus	9'	35'		2.6			0.4	0.8		0.8	1.4	9.3
D-8	822+25	Rt.	Bus	10	30		2.5		2.4		1.4		1.3	0.7	16.0
TOTALS						69.6		17.4			6.9		4.1	4.9	59.6

* Stationing on C.H. 54

609

MARK	STATION FROM	STATION TO	SIDE	609 Comb. Curb & Gutter L.F.	609 Curb Type 6 L.F.	612 Conc. Traffic Island Pav't C.Y.
CG-1	822+00	825+06.40	Lt.	306.40		
CG-2	822+00	825+18.	Rt.	318.00		
CG-3	826+23.00	827+00	Lt.	77.00		
CG-4	826+30	827+00	Rt.	70.00		
CB-1	822+79	822+89	Rt.		15.71	
CB-2	823+29	823+67	Rt.		50.84	2.5
CB-3	824+08	824+23	Rt.		27.13	
CB-4	824+60	824+63	Rt.		5.50	
CB-5	824+75	824+78	Rt.		5.50	
CB-6	825+06.4	*10+77.66	Lt.		58.61	
CB-7	825+18	*9+20.49	Rt.		49.71	
CB-8	*10+75.90	826+23	Lt.		42.96	
CB-9	*9+41.11	826+30	Rt.		47.30	
CB-10	826+62	826+65	Lt.		5.50	
CB-11	826+75	826+78	Rt.		6.28	
CB-12	826+94	826+97	Lt.		5.76	
TOTALS				771.40	320.8	2.5

202

MARK	STATION FROM	STATION TO	SIDE	Curb Rem'd as per Plan L.F.	Pav't Rem'd. S.Y.	C.B Aban. Ea.
R-1	825+90	826+18	Lt.	100		
P-1	822+00	827+00	Lt.			2
R-2	823+65		Rt.			1
R-3	825+20		Rt.			1
R-4	826+68		Rt.			1
R-5	9+49 *	826+34	Rt.	35		
R-6	826+78		Rt.	17		
R-7	824+26	824+68	Rt.		89	
R-8	826+18	826+55	Lt.		97	
R-9	825+11	825+52	Rt.	27	87	
R-10	824+78	825+05	Rt.		24	
TOTALS				179	297	5

DRAINAGE

MARK	STATION FROM	STATION TO	SIDE	603 Conduit Type B 12" L.F.	603 Conduit Type B 15" L.F.	603 Conduit Type C 42" L.F.	604 42" L.F.	No. 3-A CB Ea.	No. 1 MH Ea.	No. 1-A MH Ea.
P-2	823+65		Lt.	15				1	1	
P-12	825+99	827+00				101	101			
P-4	824+87	825+02	Lt	21				1		
P-8	824+82	824+87	L-R		61				1	
P-9	822+00	824+82	Rt.				282			1
P-10	824+82	825+99	Rt.			117				1
P-11	824+71	824+82	Rt.	11				1		
TOTALS				47	61	218	282	3	2	2

814 +

MARK	STATION	SIDE	Exist Water Valve Adj. to Grd Ea.
A-1	826+88	Lt.	1
TOTAL			1

See Sht. No. For Profile 55

+100% City Participation

For Intersection Details See Sheet Nos. 119, 120 & 121

BEGIN SHEET

END SHEET

LINE SHEET STA. 822+00 TO STA. 827+00

LINE SHEET	BY	DATE	CHECKED	DATE
SURVEYED	E.T.	8-25-69		
DRAWN	K.W.	8-27-69	R.S.	5/5/1/69
TRACED	K.W.	8-28-69		
LINED				
DESIGNED				
QUANTITIES				

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

TRU-422-(14.70)-(6.38)

27/216

CURVE DATA & SURVEY

P.I. STA. 844 + 93.94
Δ = 20° 02' 30" Rt.
D = 0° 30'
R = 11459.16'
L = 4008.34'
T = 2024.85'
E = 177.46'

* 814			
MARK	STATION	SIDE	Water Valve Adjusted to Grade Eq.
A-1	828+41.5	Lt.	1
A-2	830+36	Lt.	1
A-3	831+27.5	Lt.	1
TOTALS			* 3

*100% City of Niles

DRIVES AND APPROACHES

MARK	STATION	SIDE	TYPE	LENGTH	WIDTH	452 Plain Port. Conc. Pvmt. S.Y.	402 Asph. Conc. 1¼" S.Y.	404 Asphalt Concrete Var. C.Y.	404 Asphalt Concrete 1¾" C.Y.	404 Asphalt Concrete 2" C.Y.	304 Agg Base Var. C.Y.	304 Agg Base 6" C.Y.	407 Tack Coat @0.1 G/SY Gal.	408 Prime Coat @0.4 G/SY Gal.
D-1	827+32	Lt.	Bus.	21'	30'	76.62								
D-2	827+55	Rt.	Bus.	8'	35'				1.0				3.6	
D-3	828+13	Lt.	Res.		18'					2.5		7.4		18.0
D-4	830+00	Lt.		25'	20'		1.9	0.4	0.9		7.5			21.5
D-5	830+84	Lt.		15'	35'		2.3	0.6	2.3		7.3		1.6	26.2
D-6	831+70	Lt.	Bus.	15'	24'		1.0	0.4	1.0		4.8		1.4	11.6
TOTALS						76.62	5.2		9.10		27.0		6.6	77.3

609 & 612

MARK	STATION FROM	STATION TO	SIDE	609 Comb. Curb & Gutter L.F.	609 Curb Type 6 L.F.	612 Concrete Traffic Island Pavement C.Y.
CG-1	827+00	832+00	Lt.	500.00		
CG-2	827+00	831+58.71	Rt.	458.71		
CB-2	827+18.8	827+21.52	Rt.		13.02	
CB-3	827+59.64	827+68.7	Rt.		11.34	
CB-4	830+11	830+54	Lt.		61.00	2.9
CB-5	830+32	831+50	Lt.		77.00	3.6
CB-6	831+58.71	831+87.74	Rt.		39.48	
CB-7	831+73.8	831+86.2	Lt.		45.52	1.0
TOTALS				958.71	247.36	7.5

202 REMOVAL ITEMS

MARK	STATION FROM	STATION TO	SIDE	Curb Rem'd. As per Plan L.F.	Gutter Rem'd. L.F.	Pav't Rem'd. S.Y.	Catch Basin Aban. Ea.	Pipe Rem'd. Over 24" L.F.
R-1	829+42	831+17	Rt.	250				
R-2	829+83	831+64	Rt.		181			
R-3	827+35	827+50	Lt.	30				
R-4	827+00	832+00	Rt.	500				
R-5	827+18		Rt.	15				
R-6	827+41		Lt.			98		
P-1	829+25		Lt.				1	
R-7	827+00	827+04	Lt.	28				
R-8	831+65	832+00	Rt.					35
TOTALS				823	181	98	1	35

BASE REPLACEMENT

MARK	STATION FROM	STATION TO	SIDE	305 Port. Cem. Conc. Base S.Y.
P-3	829+20	829+80	L-R	27
TOTAL				27

DRAINAGE

MARK	STATION FROM	STATION TO	SIDE	603 Conduit Type B 12"	603 Conduit Type B 15"	603 Conduit Type B 42"	603 Conduit Type B 48"	603 Conduit Type C 12"	603 Conduit Type C 42"	604 No 3 C.B. Ea.	604 No 3-A C.B. Ea.	604 No 1 M.H. Ea.	604 No 1-A M.H. Ea.	Bends & Branches 15"x12" Tee
P-2	827+88		Lt.	25							1			1
P-3	829+20	829+80	L-R		87							1		
P-4	831+42	831+68	Lt.	32							1	1		
P-5	827+00	829+80	Rt.			280						1		
P-6	829+80	831+29	Rt.						149				1	
P-7	831+29	832+00	Rt.				71							
P-8	831+20	831+29	Rt.					10		1				
TOTALS				57	87	280	71	10	149	1	2	3	1	1

Excavation	646	C.Y.
Embankment	924	C.Y.
Seeding	1369	S.Y.

See Sheet No. 56 For Profile

B.M. #6 S.E. Cor. Conc. Walk at S.E. Cor. Phillips 66 Filling Station, 89' Lt. Sta. 827+20 El. 886.886

LINE SHEET STA. 827+00 TO STA. 832+00

LINE SHEET	DATE	CHECKED BY
SURVEYED BY	10/21/63	E.A.
PLOTTED BY	10/21/63	K.W.
TRACED BY		K.W.
DESIGNED BY		R.L.M.
QUANTITIES BY		R.L.M.
SUBMITTED BY	10-20-64	D.R.P.
		W.C.H.
		W.C.H.
		T-71

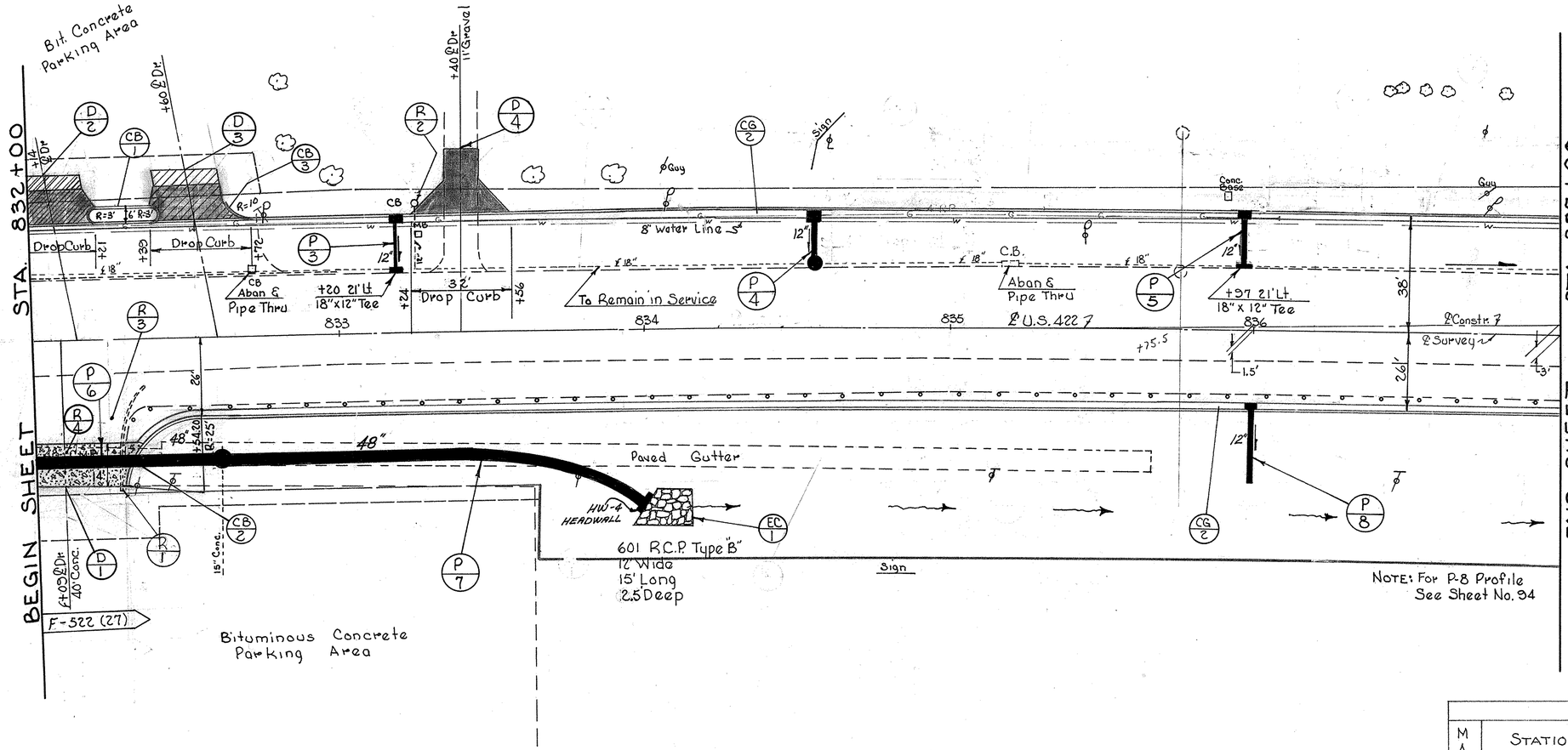
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

TRU-422-(14.70)-(16.38)

28
216

CURVE DATA & SURVEY

P.I. STA. 844+33.94
Δ = 20°-02'-30" Rt
D = 0°-30'
R = 11459.16'
L = 4008.34'
T = 2024.85'
E = 177.46'



DRIVES AND APPROACHES

MARK	STATION	SIDE	TYPE	LENGTH	WIDTH	Δ	304 Agg. Base Var C.Y.	304 Agg. Base 6" C.Y.	452 Plain Bit. Conc S.Y.	404 Asph. Conc 1¼" C.Y.	404 Asph. Conc 2" C.Y.	404 Asph. Conc Var C.Y.	402 Asph. Conc 1¼" C.Y.	407 Tack Coat @0.1 G/S.Y. Gal.	408 Prime Coat @0.4 G/S.Y. Gal.
D-1	832+09	Rt.	Bus	14'	40'	90°			94.4						
D-2	832+14	Lt.	Bus	16'	20'±		3.3			1.0		0.4	1.0	1.1	11.9
D-3	832+60	Lt.	Fld.	16'	20'	80°	3.9			1.0		0.3	1.0	1.1	11.1
D-4	833+40	Lt.	Res		11	90°		6.7			2.2				16.2
TOTALS							13.9 ✓	94.4	4.9 ✓	2.0	2.2 ✓	39.2			

609

MARK	STATION FROM	STATION TO	SIDE	609 Comb Curb & Gutter L.F.	609 Curb Type 6 L.F.	612 Concrete Traffic Island Pav't. C.Y.
CG-1	832+00	837+00	Lt.	500.00		
CG-2	832+34.8	837+00	Rt.	467.80		
CB-1	832+18	832+42	Lt.		36.84	1.6
CB-2	832+29.38	832+54.20	Rt.		14.05	
CB-3	832+62.83	832+72	Lt.		11.59	
CB-4	835+01.	835+99	Lt.		116.84	
CB-5	836+35	837+00	Lt.		71.42	
TOTALS				967.80	250.74	1.6

202 REMOVAL ITEMS

MARK	STATION FROM	STATION TO	SIDE	Curb Rem'd L.F.	Pav't Rem'd. S.Y.	C.B Aban. Ea.	CB Rem'd Ea.	Pipe Rem'd. Over 24" L.F.
R-1	832+27	832+36	Rt.	35				
R-2	833+26		Lt.				1	
P-1	832+00	837+00	Lt.			2		
R-3	832+09		Rt.		200			
R-4	832+00	832+41	Rt.					41
TOTALS				35	200	2	1	41

DRAINAGE

MARK	STATION FROM	STATION TO	SIDE	603 Conduit Type B 12" L.F.	Type B 48"	Type C 12" L.F.	Type C 48" L.F.	48" Radius Pipe 706.02 L.F.	601 Rock Chan. Prot. Type B C.Y.	604 No. 3-A C.B Ea.	604 No. 1-A M.H Ea.	604 No 1 MH Ea.	602 Conc Masonry C.Y.		Bends & Branches 18" x 12" Tee
EC-1	884+00	834+15	Rt.						20						
P-3	833+26		Lt.	17						1					1
P-4	834+57		Lt.	17						1		1			
P-5	835+97		Lt.	17											1
P-6	832+00	832+61	Rt.		61						1				
P-7	832+61	834+00	Rt.				81	58					1.09		
P-8	836+00		Rt.			24				1					
TOTALS				51	61	24	81	58	20	3	1	1	1.09		

NOTE: Build Proposed 48" Storm Sewer From Sta. 833+42± To Sta. 834+00 Using 48" Reinforced Concrete Radius Pipe, With a Radius of 100'.

Excavation	979 ✓	C.Y.
Embankment	1611 ✓	C.Y.
Seeding	2449 ✓	S.Y.

See Sheet No For Profile 57

LINE SHEET	DATE	CHECKED BY
BY		
E.A.	10/21/69	D.R.B.
K.W.	10/22/69	
K.W.	12-1-70	
R.L.M.	11-24-70	
R.L.M.	11-24-72	
SURVEYED		
PLOTTED		
DRAWN		
DESIGNED		
QUANTITIES		

LINE SHEET STA. 832+00 TO STA. 837+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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TRU-422-(14.70)-(16.38)

EXISTING BRIDGE DATA

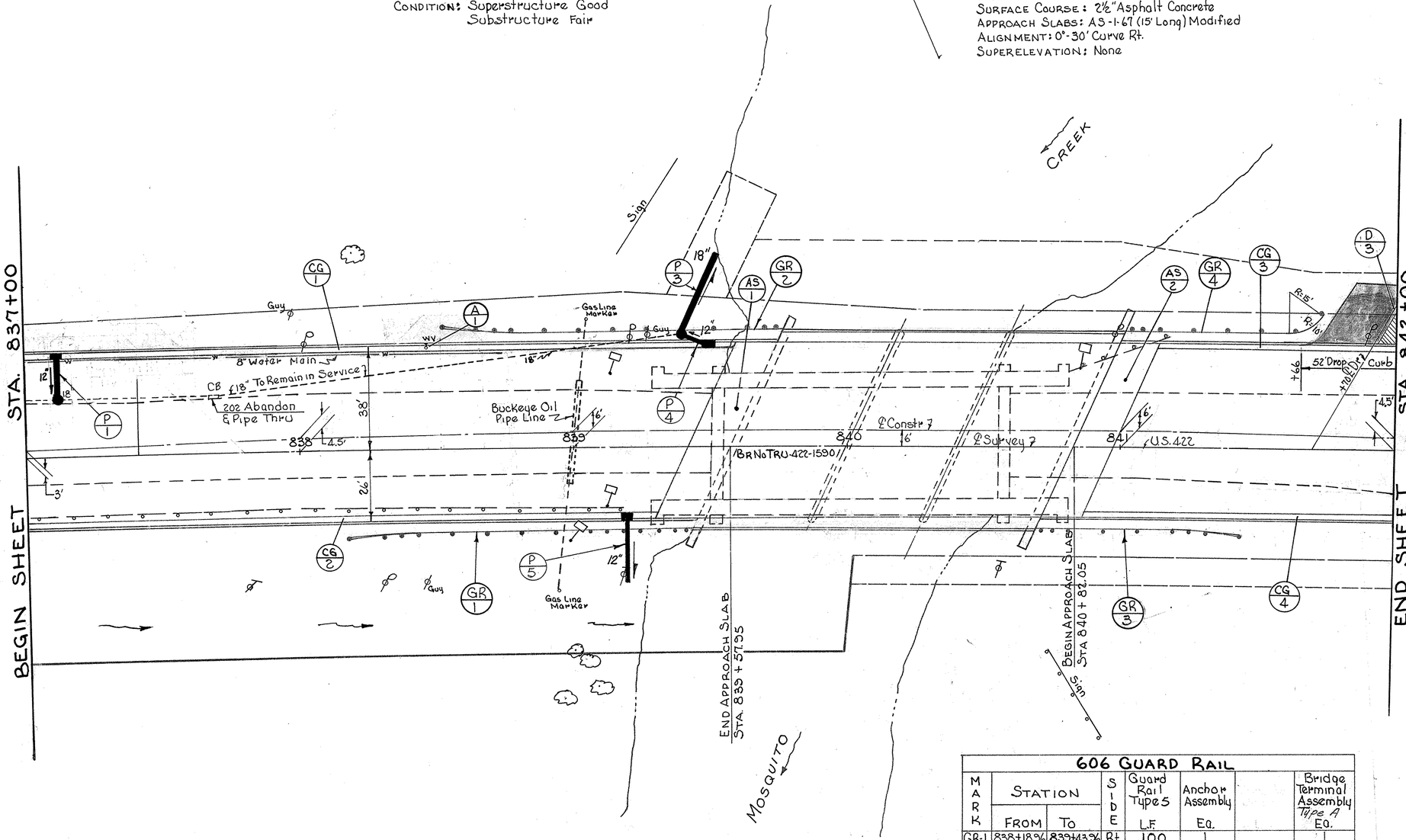
TYPE: Deck Plate Girder
SPAN: 100'-0" (Clear)
ROADWAY 41'-0" f/f 2 5'-0" Sidewalks
SKEW: None
LOADING: H-15-33
WIDENED: 1937
CONDITION: Superstructure Good
Substructure Fair

CURVE DATA & SURVEY

P.I. STA. 844+93.94
Δ = 20°-02'-30" Rt.
D = 0°-30'
R = 11459.16'
L = 4008.34'
T = 2024.85'
E = 177.46'

PROPOSED STRUCTURE

TYPE: Prestressed Non-Composite Box Beams With Capped Pile Substructure
SPANS: 41'-0" - 41'-0" - 41'-0"
ROADWAY: 64'-0" f/f 2 4'-0" Sidewalks
LOADING: HS 20-44
SKEW: 25° Lt. Fwd.
SURFACE COURSE: 2½" Asphalt Concrete
APPROACH SLABS: AS-1-67 (15' Long) Modified
ALIGNMENT: 0°-30' Curve Rt.
SUPERELEVATION: None



DRIVES AND APPROACHES

MARK	STATION	SIDE	TYPE	LENGTH	WIDTH	Δ	402 Asph. Conc 1¼" C.Y.	304 Agg Base 8" C.Y.	404 Asph. Conc. Var. C.Y.	404 Asph. Conc. 1¼" C.Y.	407 Tack Coat @0.1 G/S.Y. Gal.	408 Prime Coat @0.4 G/S.Y. Gal.
D-3	841+70	Lt.	Bus	22'	44'	60°	3.2	20.8	0.4	3.2	1.5	37.4
TOTALS							3.2	20.8	3.6		1.5	37.4

609

MARK	STATION FROM	STATION TO	SIDE	609 Comb. Curb & Gutter L.F.
CG-1	837+00	839+60.90	Lt.	260.90
CG-2	837+00	839+30.59	Rt.	230.59
CG-3	841+15	842+00	Lt.	85.00
CG-4	840+84.69	842+00	Rt.	115.31
TOTALS				691.80

611 APPROACH SLABS

MARK	STATION FROM	STATION TO	611 Reinf. Conc. Approach Slabs S.Y.	404 Asphalt Concrete 1¼" C.Y.	402 Asphalt Concrete 1¼" C.Y.	407 Bit. Tack Coat @ 0.4 Gal. Per S.Y. Gal.
AS-1	839+42.95	839+57.95	108.33	3.7	3.7	10.7
AS-2	840+82.05	840+97.05	108.33	3.7	3.7	10.7
TOTALS			216.66	7.4	7.4	21.4

DRAINAGE

MARK	STATION FROM	STATION TO	SIDE	603 Conduit Type B 12" L.F.	603 Conduit Type C 12" L.F.	603 Conduit Type C 18" L.F.	604 No 3A CB Ea.	604 No 1 MH Ea.	814 Water Valve Adj to Grd Ea.
P-1	837+12		Lt.	17			1	1	
P-3	839+40	839+54	Lt.			32		1	
P-4	839+40	839+50	Lt.		10		1		
P-5	839+20		Rt.		23		1		
A-1	838+47		Lt.						*1
TOTALS				17	33	32	3	2	*1

*100% City Participation

606 GUARD RAIL

MARK	STATION FROM	STATION TO	SIDE	Guard Rail Types L.F.	Anchor Assembly Ea.		Bridge Terminal Assembly Type A Ea.
GR-1	838+18.96	839+43.96	Rt.	100	1		1
GR-2	838+52.53	839+77.53	Lt.	100	1		1
GR-3	840+68.06	841+43.06	Rt.	50	1		1
GR-4	841+01.63	841+74.63	Lt.	75			1
TOTALS				325	3		4

202 REMOVAL ITEMS

SIDE	STATION FROM	STATION TO	SIDE	202 CB Aban Ea.
P-1	837+67		Lt.	1
TOTAL				1

Excavation	838	C.Y.
Embankment	1097	C.Y.
Seeding	1987	S.Y.

See Sheet No. 58 For Profile

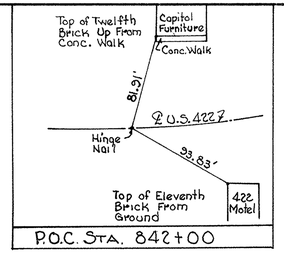
LINE SHEET	BY	DATE	CHECKED BY	DATE
SURVEYED	E.A.	10/21/69		
PLOTTED	K.W.	10/22/69	D.R.P.	10-30-69
INKED	K.W.		W.C.H.	
DESIGNED	R.U.M.		W.C.H.	
QUANTITIES	R.U.M.			

LINE SHEET STA. 837+00 TO STA. 842+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

30
216

TRU-422-(14.70)-(16.38)



P.O.C. STA. 842+00

CURVE DATA & SURVEY

P.I. STA. 844+93.94
Δ = 20°-02'-30" Rt.
D = 0°-30'
R = 11,459.16'
L = 4008.34'
T = 2024.85'
E = 177.46'

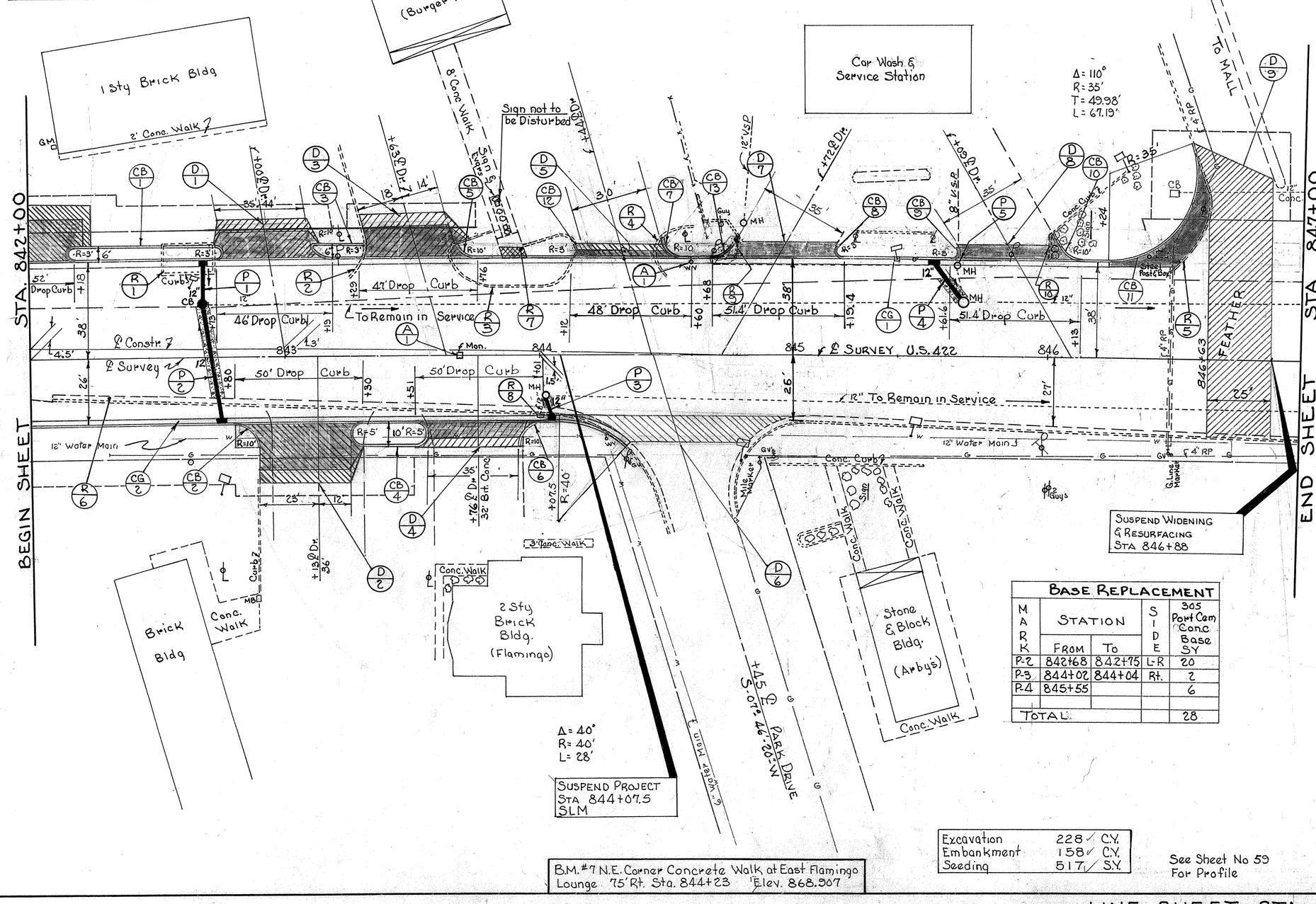
S.74° 06'-30"-E △ S-54° 04'-E

2½" Long Sq. Head Bolt Set
2½" Long Sq. Head Bolt Set
25'
100'
41P Set
Ext. Nail
℄ U.S. 422 ℄
P.I. STA 844+93.74

* 814

MARK	STATION	SIDE	Water Valve Adj. to Grd. Eq.
A-1	844+60	Lt.	1
TOTAL			+1 ✓

* 100% City of Niles



DRIVES AND APPROACHES

MARK	STATION	SIDE	TYPE	LENGTH	WIDTH	Δ	301 Bit Agg Base 8" CY	310 Sub Base 4" CY	304 Agg Base Var CY	402 Asph Conc. 8" CY	404 Asph Conc. 1¼" CY	404 Asph Conc. 1¾" CY	404 Asph Conc. Var CY	407 Tack Coat @0.1 G/SY Gal.	408 Prime Coat @0.4 G/SY Gal.
D-1	843+00	Lt.	Bus	15'	35'	81°			6.0		1.5	1.5	0.6	2.2	17.3
D-2	843+13	Rt.	Bus	23'	35'	98°			10.6		2.6	2.6	0.6	2.1	30.4
D-3	843+63	Lt.	Bus	17'	32'	75°			7.8		1.6	1.6	0.5	2.0	18.8
D-4	843+76	Rt.	Bus	10'	35'	90°			3.7		0.9	0.9	0.5	1.6	10.5
D-5	844+44	Lt.	Bus	6'		72°			1.0		0.4	0.4	0.3	1.1	4.8
D-6	844+45	Rt.	Int.	10'		75°				0.6	0.1	0.1	2.5	7.1	1.1
D-7	844+72	Lt.	Bus	6'	35'	60°				6.3	1.0	1.0			11.3
D-8	846+09	Lt.	Bus	9'	35'	40°				6.3	1.0	1.0			11.3
D-9	847+16	Lt.	Bus			76°	10.1	5.0			1.6	1.6	10.5		30.1
TOTALS							10.1	5.0	42.3	10.7		26.2		46.2	105.5

609

MARK	STATION FROM	STATION To	SIDE	609 Comb Curb & Gutter L.F.	609 Curb Type 6 L.F.	612 Concrete Traffic Island Pav't C.Y.
CG-1	842+00	846+24	Lt.	424.00		
CG-2	842+00	844+33.21	Rt.	235.50		
CB-1	842+15	842+76	Lt.		73.84	3.9
CB-2	842+80	842+96	Rt.		15.71	
CB-3	843+11	843+33	Lt.		39.00	1.3
CB-4	843+36	843+51	Rt.		52.42	3.1
CB-5	843+67	843+76	Lt.		13.00	
CB-6	843+91	844+01	Rt.		15.71	
CB-7	844+47	844+57	Lt.		17.00	
CB-8	845+16.8	845+19.4	Lt.		6.28	
CB-9	845+61.6	845+64.2	Lt.		6.28	
CB-10	846+02	846+13	Lt.		17.47	
CB-11	846+24	846+58.9	Lt.		67.19	
CB-12	844+12	844+15	Lt.		9.00	
CB-13	844+68	844+77	Lt.		16.00	
TOTALS				659.50	343.90	8.3

202 REMOVAL ITEMS

MARK	STATION FROM	STATION To	SIDE	Curb & Gutter Rem'd L.F.	Curb Rem'd As Per Plan L.F.	Sd. Walk Rem'd. S.F.	C.B Rem'd Ea.
R-1	842+52	842+73	Lt.		62		
R-2	843+26	843+33	Lt.		15		
R-3	843+65	844+15	Lt.		70		
R-4	844+45	844+50	Lt.		16		
R-5	846+48	846+64	Lt.		57		
R-6	842+08	844+34	Rt.	229			
R-7	843+86	843+95	Lt.			36	
R-8	844+00		Rt.				1
R-9	844+76	844+79	Lt.		9		
R-10	846+00	846+02	Lt.		11		
TOTALS				229	240	36	1

BASE REPLACEMENT

MARK	STATION FROM	STATION To	SIDE	305 Port Cem Conc. Base SY
P-2	842+68	842+75	L-R	20
P-3	844+02	844+04	Rt.	2
P-4	845+55			6
TOTAL				28

DRAINAGE

SIDE	STATION FROM	STATION To	SIDE	603 Type B" 12" LF	Mon Adj. to Grd. Eq.	604 No. 3A CB Eq.	604 No. MH Eq.	604 MH Adj. to Grd Eq.
P-1	842+68		Lt.	17		1	1	
P-2	842+68	842+75	L-R	47		1		
P-3	844+02	844+04	Rt.	10		1		1
P-4	845+55		Lt.	20		1		1
P-5	845+65		Lt.					1
A-1	843+69.03				1			
TOTALS				94		4	1	3

Excavation	228 ✓	C.Y.
Embankment	158 ✓	C.Y.
Seeding	517 ✓	S.Y.

See Sheet No 59 For Profile

B.M. #7 N.E. Corner Concrete Walk at East Flamingo Lounge 75' Rt. Sta. 844+23 Elev. 868.907

LINE SHEET STA. 842+00 TO STA. 847+00

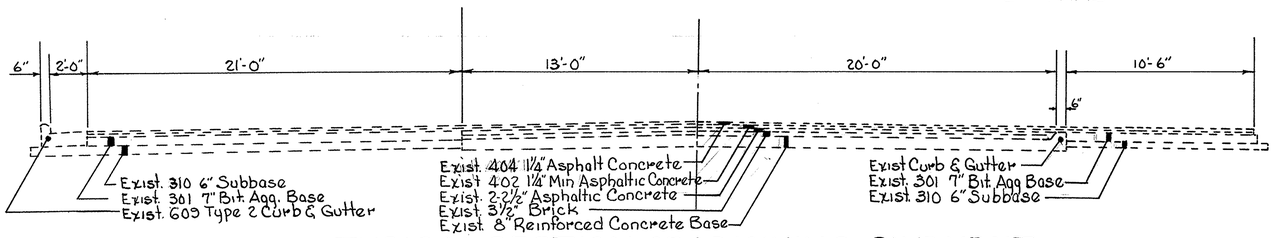
LINE SHEET	DATE	CHECKED BY	DATE
SURVEYED	E.A.	10-28-69	
PLOTTED	K.W.	10-29-69	D.R.P. 10-30-69
INKED	K.W.	11/16/70	
DESIGNED	R.L.M.	11/13/70	P-27
QUANTITIES	R.L.M.	11-23-70	

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

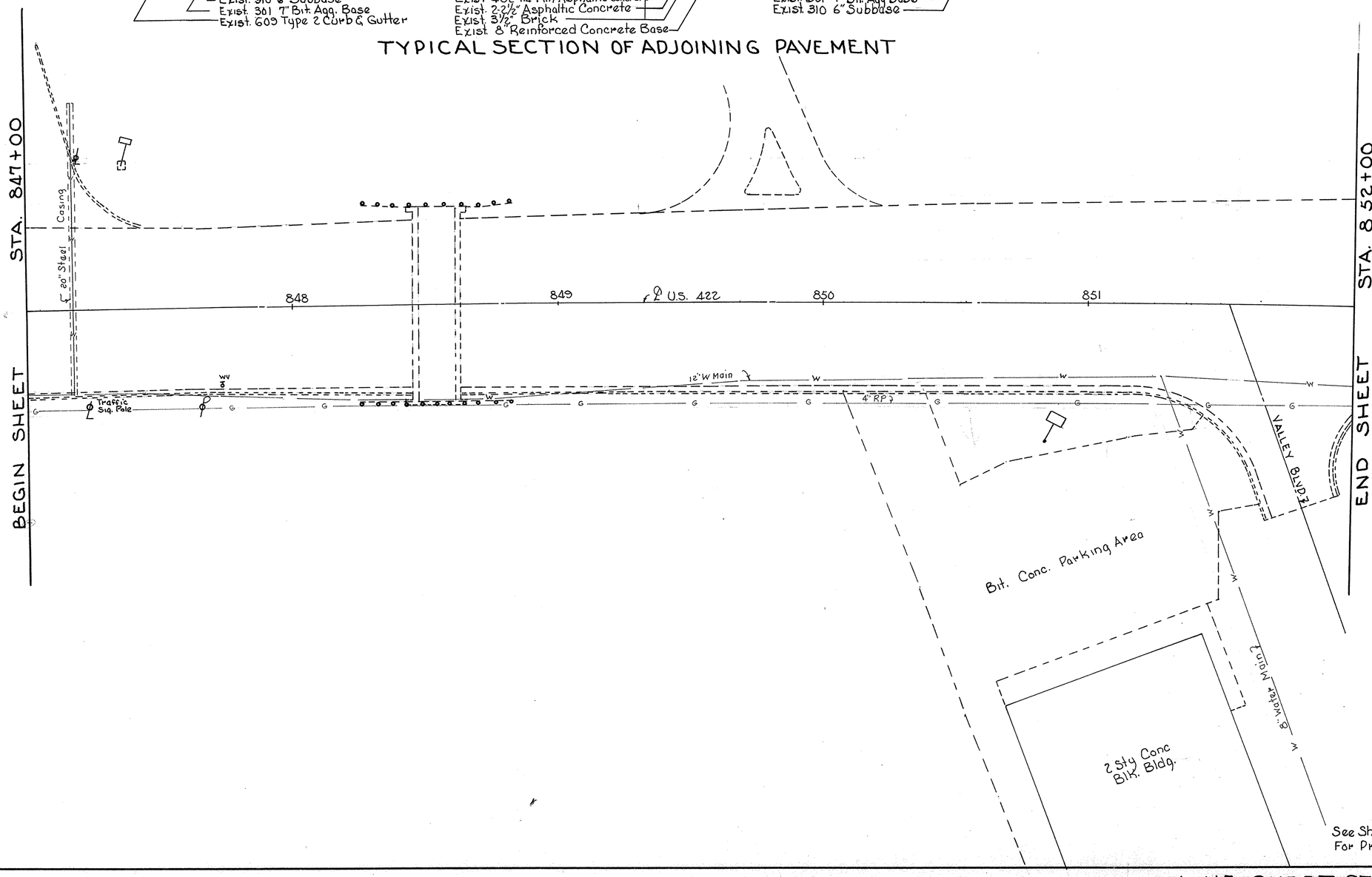
31
216

TRU-422-(14.70)-(16.38)

CURVE DATA & SURVEY
P.I. STA. 844+93.94
Δ = 20°-02'-30" Rt
D = 0°-30'
R = 11459.16'
L = 4008.34'
T = 2024.85'
E = 177.46'



TYPICAL SECTION OF ADJOINING PAVEMENT



LINE SHEET STA. 847+00 TO STA. 852+00

LINE SHEET

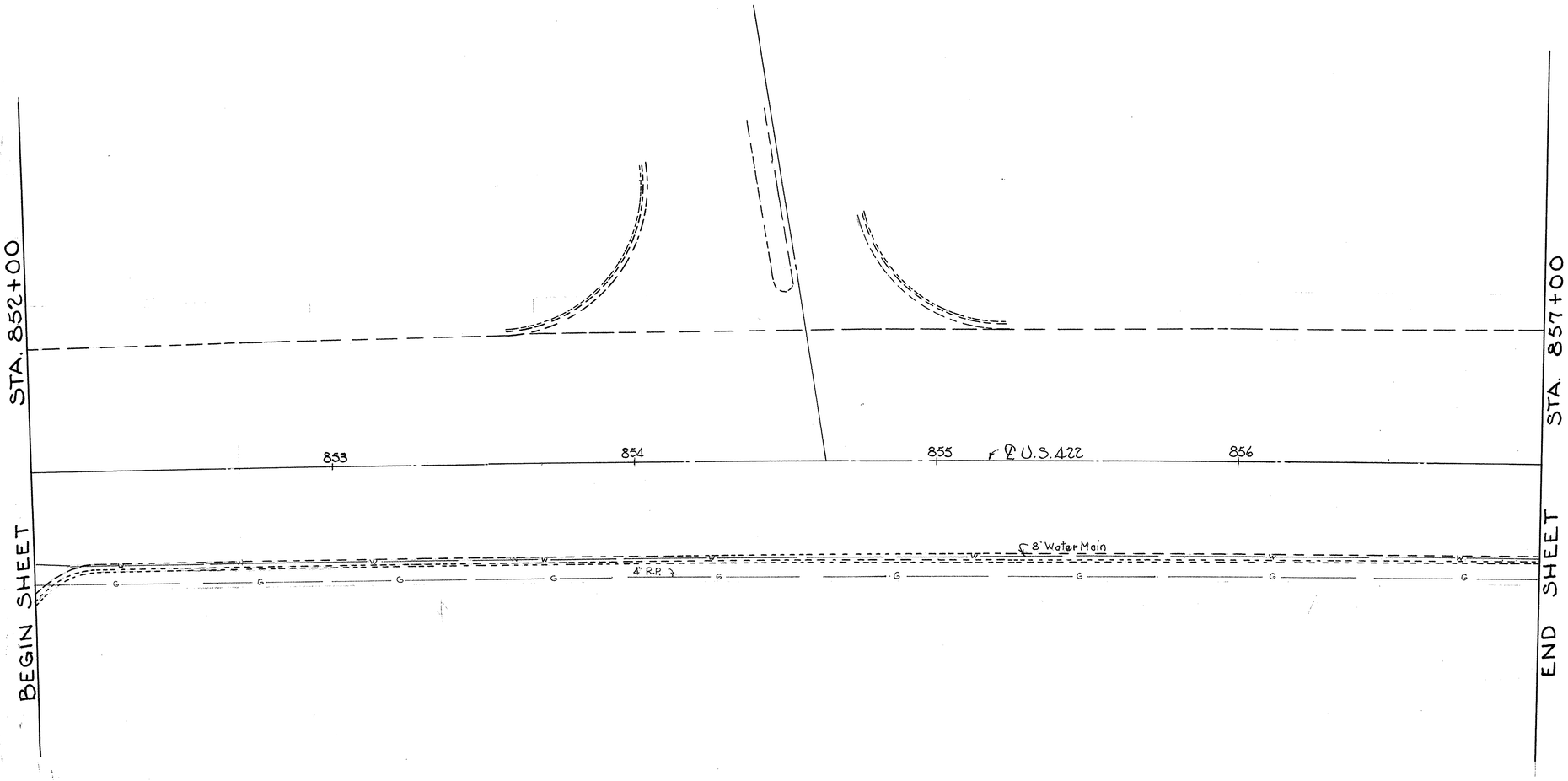
	BY	DATE	CHECKED BY	DATE
SUBMITTED				
PLOTTED	KW	12-8-69		
LINED				
DESIGNED				
QUANTITIES				

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

32
216

TRU-422-(14.70)-(16.38)

CURVE DATA & SURVEY
P.I. STA. 844+93.94
Δ = 20°-02'-30" Rt.
D = 0°-30'
R = 11459.16'
L = 4008.34'
T = 2024.85'
E = 177.46'



See Sheet No. 60
For Profile

DESIGNED	DRAWN	TRACED	CHECKED	QUANTITIES
	KW			
BY	12-4-69			
DATE				
CHECKED BY				
DATE				

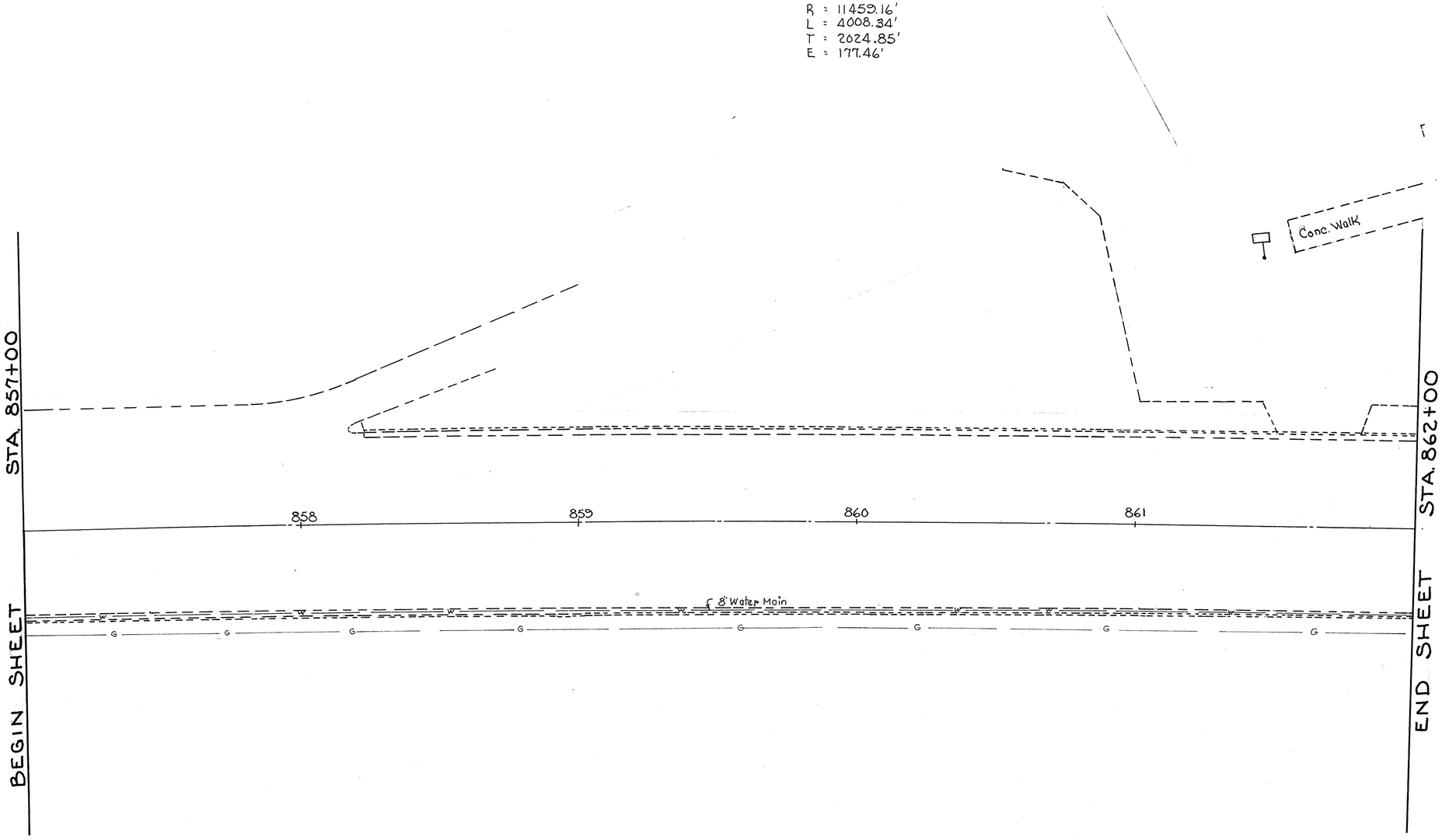
LINE SHEET STA. 852+00 TO STA. 857+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

33
216

TRU-422-(14.70)-(16.38)

CURVE DATA & SURVEY
P.I. STA. 844 + 93.94
Δ = 20°-02'-30" Rt
D = 0°-30'
R = 11459.16'
L = 4008.34'
T = 2024.85'
E = 177.46'



LINE SHEET
BY | DATE | CHECKED BY | DATE
SURVEYED
PLOTTED
INKED
DESIGNED
QUANTITIES

See Sheet No. 60
For Profile

LINE SHEET STA. 857+00 TO STA. 862+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

34
216

TRU-422-(14.70)-(16.38)

CURVE DATA & SURVEY
P.I. STA. 844+93.94
Δ = 20°-02'-30" Rt.
D = 0°-30'
R = 11459.16'
L = 4008.34'
T = 2024.85'
E = 177.46'

P.S.B. 422 7
Boat Spike
86.10
96.67
2½" Long Sq. Head Bolt Set
39.03
2½" Long Sq. Head Bolt Set
P.T. STA. 864+77.43

FISH & CHIPS
Conc. Walk
+53.75 ℄ MINES RD
N-35°-36'-E
21" PIPE INSTALLED BY OTHERS
Connect Exist. Pipe to Proposed Man Hole STA 864+35
Δ = 89°-50'
R = 50'
T = 49.86'
L = 78.39'
MH
Exist. 36"
Bituminous Concrete Parking Area
CB 1
P 1
CG 1
P 4
Exist Bit. Conc. Curb
21"
31.06
42'
40'
25' Feather
P 2
P 3
R 1
C.B.
6"
4"R.P.
90°-10" Contain
863
864
865
866
S-54°-04'-E
STA. 862+00
STA. 867+00
BEGIN SHEET
END SHEET
San MH
8" water Line
8" San
Sign
℄
CG 2
GYPSY LANE 60'
862+44.03
6" water Line
RESUME WIDENING & RESURFACING STA 863+81
RESUME PROJECT STA 864+77.43 S.L.M. 16.38
P.T. STA. 864+77.43

609

MARK	STATION FROM	STATION TO	SIDE	TYPE 2 CURB & GUTTER L.F.	609 Curb Type 6 L.F.
CG-1	864+31	867+00	Lt.	269	
CG-2	864+67	867+00	Rt.	233	
CB-1	863+99	864+31	Lt.		36
TOTALS				502	36

DRAINAGE

MARK	STATION FROM	STATION TO	SIDE	603 Conduit Type C 12" LF	Type C 21" LF	Type B 12" LF	604 No 1 MH. Ea.		No 3 C.B. Ea.
P-1	864+35	866+75	Lt.		240		1		
P-2	864+35	864+45	Lt.	10					1
P-3	864+45	864+75	L-R			82			1
P-4	866+75	867+00	Lt.		25		1		
TOTALS				10	265	82	2		2

202 REMOVAL ITEM

MARK	STATION FROM	STATION TO	SIDE	202 C.B.'s Aban. Ea.
R-1	866+00	867+00	Lt.	1
TOTALS				1

BASE REPLACEMENT

MARK	STATION FROM	STATION TO	SIDE	305 Portland Cement Conc. Base S.Y.
P-3	864+40	864+75	LR	37.2
TOTAL				37.2

Excavation	332 C.Y.
Embankment	95 C.Y.
Seeding	601 S.Y.

See Sheet No. 61 For Profile

B.M.#8 N.E. Corner Concrete Slab Porch of Albee Model Home 118' Rt. ℄ Sta. 864+22 Elev. 877.067

LINE SHEET

	BY	DATE
SURVEYED	E.A.	10-29-65
PLOTTED	K.W.	10-30-65
LINED	K.W.	
DESIGNED	W.C.H.	
QUANTITIES	R.L.H.	

LINE SHEET STA. 862+00 TO STA. 867+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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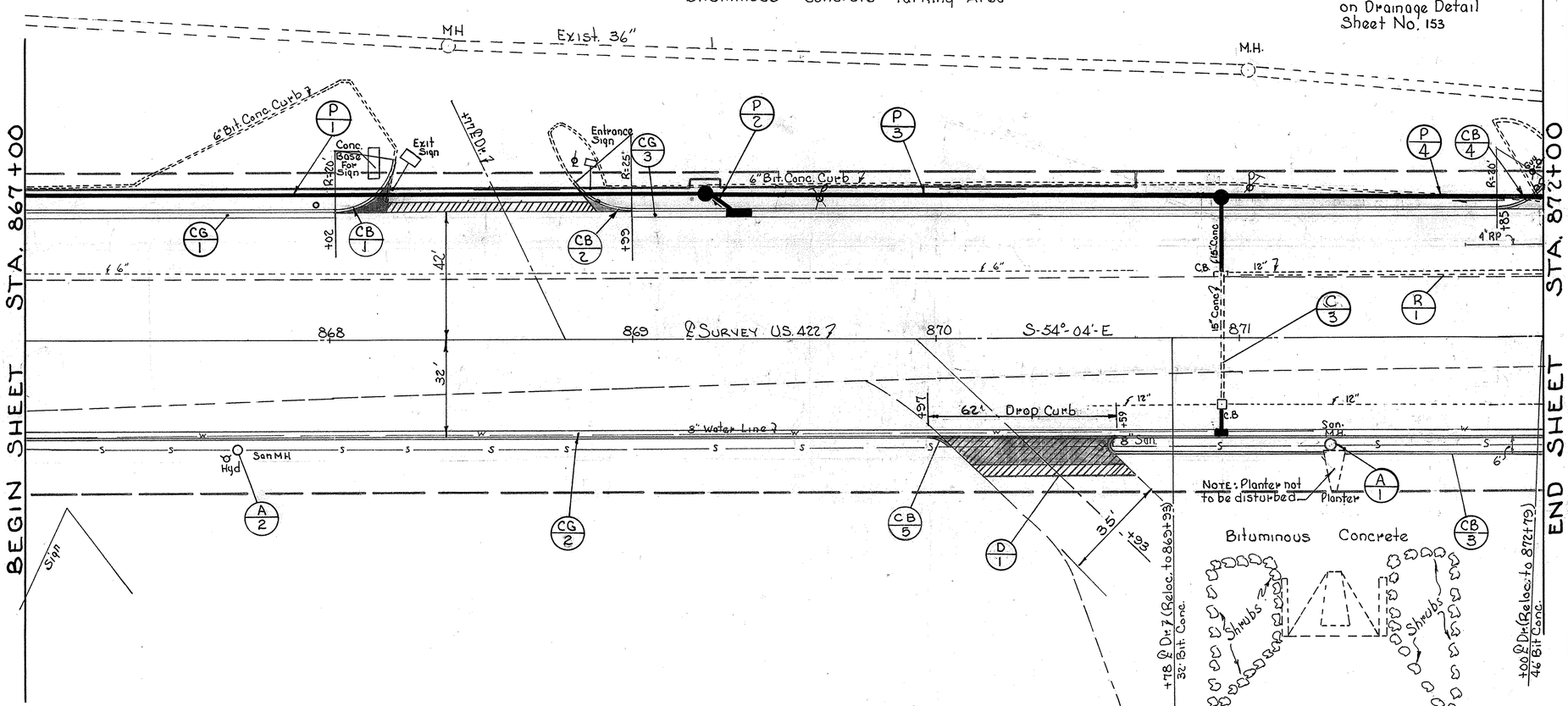
35/216

DRIVES AND APPROACHES

MARK	STATION	SIDE	TYPE	LENGTH	WIDTH	Δ	404 Asph Conc. 1½" C.Y.	404 Asph Conc Var. C.Y.	408 Prime Coat @0.4 Gal/SY Gal	407 Tack Coat @0.1 Gal/SY Gal.	304 Aggr. Base 8" C.Y.	402 Asph. Conc. 1¼" C.Y.
D-1	869+93	Rt	Bus	20'	35'	44°	2.5		28.3		4.9	2.5
D-2	868+77	Lt	Bus	3'	48'	65°	0.3	0.8	3.3	2.2	1.8	0.3
TOTALS							3.6		31.6	2.2	6.7	2.8

Bituminous Concrete Parking Area

NOTE C-3 Quantities Carried on Drainage Detail Sheet No. 153



Drive In Theatre

Excavation	839	C.Y.
Embankment	99	C.Y.
Seeding	727	S.Y.

See Sheet No. 61 For Profile

B.M. # 9 Chiseled Square in Concrete Base For Driven Theater Screen, 156' Rt Sta. 871+78 Elev. 887.263

202

MARK	STATION FROM	STATION TO	SIDE	Curb Removed As Per Plan L.F.	
R-1	871+00	872+00	LT.	100	
TOTAL				100	

DRAINAGE

MARK	STATION FROM	STATION TO	SIDE	603 Conduit Type "C" 12" L.F.	18" L.F.	21" L.F.	604 No. MH Ea.	604 No. C.B Ea.	
P-1	867+00	869+25	Lt.			225	1		
P-2	869+25	869+35	Lt.	10				1	
P-3	869+25	870+94	Lt.		169				
P-4	870+94	872+00	Lt.		106				
A-1	871+29		Rt.						
TOTALS				10	275	225	1	1	

609

MARK	STATION FROM	STATION TO	SIDE	Curb & Gutter Type 2 L.F.	Curb Type 6 L.F.	612 Concrete Traffic Island Pavit C.Y.
CG-1	867+00	868+02	Lt.	102		
CG-2	867+00	872+00	Rt.	500		
CG3	868+99	871+85	Lt.	286		
CB-1	868+02	868+22	Lt.		27.92	8.9
CB2	868+80	868+99	Lt.		21.82	
CB3	870+56	872+00	Rt.		150.00	
CB4	871+85	872+03	Lt.		20.94	
CB-5	869+97	870+05	Rt.		7.68	
TOTALS				888	228.36	8.9

* 604

MARK	STATION	SIDE	San Man Hole Adj to Grd Ea.
A-1	871+30	Rt	1
A-2	867+70	Rt.	1
TOTAL			2

*100% City Participation

LINE SHEET	BY	DATE	CHECKED BY	DATE
SURVEYED	E.A.	10-29-69		
PLOTTED	K.W.	10-30-69		
INKED			DRP	10-31-69
DESIGNED	W.C.H.			
QUANTITIES	E.M.	11-1-69	E.M.	11-1-69

LINE SHEET STA. 867+00 TO STA. 872+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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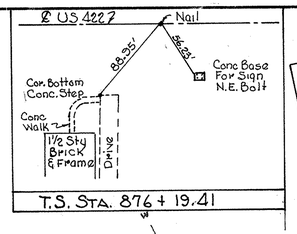
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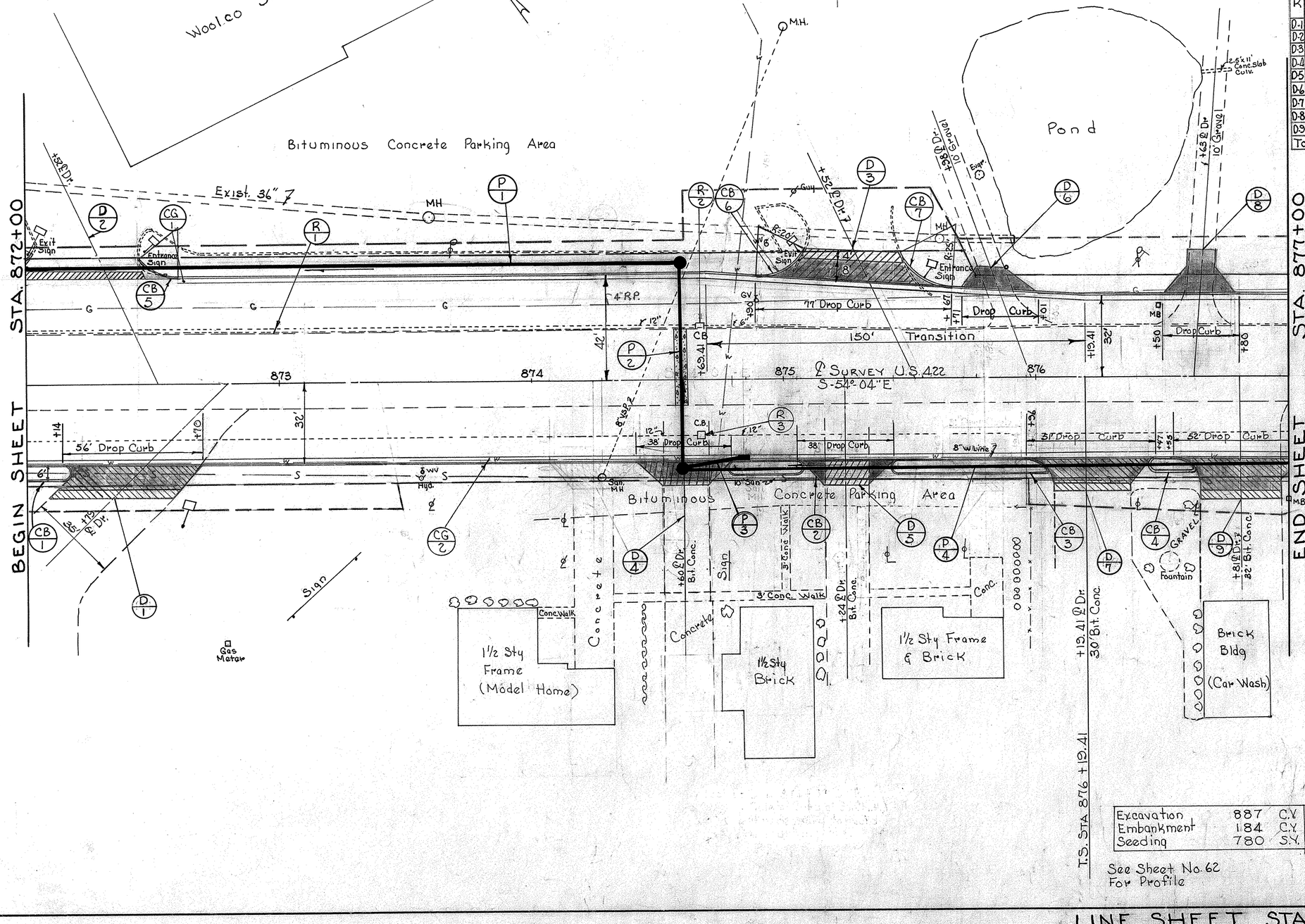
CURVE DATA & SURVEY

P.I. STA. 880 + 48.40

Δ = 16°-20'-Rt.
D_c = 2°-30'
R = 2291.83'
T_s = 428.99'
E_s = 24.21'
Δ_c = 11°-20'
L.C. = 453.33'
L_s = 200.00'

Q_s = 2°-30'
p = 0.73'
k = 99.99'
X_c = 199.96'
Y_c = 2.91'
L.T. = 133.35'
S.T. = 66.68'
L.C. = 199.98'





DRIVES AND APPROACHES

MARK	STATION	SIDE	TYPE	LENGTH	WIDTH	Δ	404 Asphalt Conc. Var. C.Y.	402 Asph Conc 1¼" C.Y.	304 Agg. Base 8" C.Y.	304 Agg. Base Var. C.Y.	407 Tack Coat @ 0.1 G/SY. Gal.	408 Prime Coat @ 0.4 G/SY. Gal.
D-1	872+79	Rt.	Bus	125	35'	45°±		2.5	2.5		3.4	28.3
D-2	872+52	Lt.	Bus.	7'	35	65°±	0.6	0.1	0.1	0.9	1.7	1.6
D-3	875+52	Lt.	Bus	12'	30'	65°		2.2	1.9	1.6	4.0	1.7	18.8
D-4	874+60	Rt	Bus	10'	18'	90°		1.0	0.4	2.5	1.1	1.8	4.4
D-5	875+24	Rt.	Bus	10'	18'	90°		0.9	0.6	1.1		0.6	7.3
D-6	875+98	Lt.	Bus	10'	10'	70°		0.8	0.8	4.9			8.9
D-7	876+19.41	Rt.	Bus	12.5	30'	90°		1.6	1.5		5.6	1.0	14.9
D-8	876+63	Lt.	Bus	17.8	10'	86°		1.1	1.1	6.6			
D-9	876+81	Rt.	Bus	15.5	32'	90°		2.1	2.0		12.0	0.7	21.4
TOTALS							12.9	10.9		43.7	7.5	105.6

202 & 305

MARK	STATION FROM	STATION TO	SIDE	202 Curb Removed As Per Plan L.F.	202 C.B. Aban Ea.	305 Port Conc Base S.Y.
P-1	874+60		L-R			18
R-1	872+00	877+00	Lt.	500		
R-2	874+67		Lt.		1	
R-3	874+67		Rt.		1	
TOTALS				500	2	18

DRAINAGE

MARK	STATION FROM	STATION TO		603 Conduit Type C 12" L.F.	603 Conduit Type C * 15" L.F.	603 Conduit Type C 18" L.F.	603 Conduit Type B 18" L.F.	604 Nal M.H. Ea.	604 No. 3A CB Ea.
P-1	872+00	874+60	Lt.			260		1	
P-2	874+60		L-R				81	1	
P-3	874+60	874+85	Rt.	25					1
P-4	874+60	877+00	Rt.		239				
TOTALS				25	239	260	81	2	1

* 706.01 E.S. - 706.02 - 706.08 E.S. or 707.13

609

MARK	STATION FROM	STATION TO	SIDE	Curb & Gutter Type 2 L.F.	Curb Type 6 L.F.	612 Concrete Traffic Island Pav't C.Y.
CG-1	872+60	877+00	Lt.	440.00		
CG-2	872+00	877+00	Rt.	500.00		
CB-1	872+00	872+17	Rt.		23.42	1.1
CB-2	874+78	875+06	Rt.		45.00	2.0
CB-3	875+42	876+05	Rt.		81.00	4.0
CB-4	876+47	876+55	Rt.		38.17	1.1
CB-5	872+44	872+60	Lt.		18.14	
CB-6	874+90	875+09.41	Lt.		23.35	
CB-7	875+47	875+67	Lt.		25.74	
TOTALS				940.00	254.86	8.2

Excavation	887	C.Y.
Embankment	184	C.Y.
Seeding	780	S.Y.

See Sheet No. 62 For Profile

LINE SHEET	BY	DATE	CHECKED
SURVEYED	E.A.	10-30-69	
PLOTTED	K.W.	11-3-69	D.R.P.
INKED	K.W.	7-6-71	
DESIGNED	W.C.H.		W.C.H.
QUANTITIES	E.J.M.		E.J.M.

LINE SHEET STA. 872+00 TO STA. 877+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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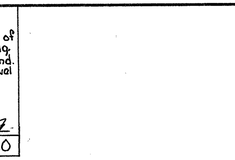
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℄ Constr. Curve Data

P.I. Sta. 880+48.40

Δ = 16°-20' Rt.		Q_s = 2°-30'	
D_c = 2°-30'		p = 0.73'	
R = 2291.83'		k = 99.99'	
T_s = 428.99'		X_c = 199.96'	
E_s = 24.21'		Y_c = 2.91'	
Δ_c = 11°-20'		L.T. = 133.35'	
L.C. = 453.33'		S.T. = 66.68'	
L_s = 200.00'		L.C. = 199.98'	

Note: Elev. of Drop Curb Matches Elev. of Exist. Drive. Material Provided For Form Cut Only. D-7



Drives And Approaches

Mark	Station	Side	Type	Length	Width	Δ	404 Asphalt Concrete 1¼" C.Y.	304 Aggr. Base Var. C.Y.	8" Var. C.Y.	402 Asph. Conc. C.Y.	408 Prime Coat @0.4 G/SY Gal	407 Tack Coat @0.1 G/SY Gal
D-1	877+40	Rt.	Bus	17.5	30'	90°	2.2		12.5	2.0	21.5	1.0
D-2	877+55	Lt.	Bus	17.5	30'	90°	2.2		6.4	1.9	20.5	1.3
D-3	878+37	Lt.	Bus	20	23'	90°	2.0		7.6	1.8	20.6	0.5
D-4	878+46	Rt.	Bus	17.5	30'	90°	2.2		17.4	2.1	23.2	0.7
D-5	879+78	Lt.	Bus	10'	20'	90°	1.1		3.4	0.8	1.0	10.8	0.3
D-6	880+24	Rt.	Bus	17.5	30'	90°	2.2			7.5	2.1	21.8	1.0
D-7	880+85	Lt.	Bus	1'	35'	65°		0.2		0.3		1.8	
D-8	881+35	Lt.	Bus	4.98	31'	74°		0.2					2.0
D-9	881+75	Rt.	Bus	17.5	30'	90°	2.2			10.5	2.0	21.2	1.0
Totals							14.5		67.0	12.9	141.4	7.8

609

Side	Station From	Station To	Side	Curb & Gutter Type 2 L.F.	Curb Type 6 L.F.	612 Conc. Traffic Island Pavt C.Y.
CG-1	877+00	882+00	Lt.	500		
CG-2	877+00	882+00	Rt.	500		
CB-1	877+01	877+23	Rt.		31.00	
CB-2	877+62	878+24	Rt.		74.84	3.9
CB-3	877+77	878+18	Rt.		53.84	2.6
CB-4	878+48	879+62.5	Lt.		135.92	
CB-5	880+47	881+59	Rt.		121.00	6.8
Totals				1000	416.60	13.3

660

Mark	Station From	Station To	Side	660 Sodding S.Y.
EC-1	878+49	879+67.5	Lt.	93
Total				93

Drainage

Mark	Station From	Station To	Side	603 Conduit Type C 12" L.F.	15" L.F.	*15" L.F.	604 No1 MH Ea.	No3A CB Ea.	No6 CB Ea.
P-1	877+00	877+05	Rt.			5			
P-2	877+05	877+10	Rt.	8			1	1	
P-3	877+05	878+75	Rt.			167			
P-4	878+75		Rt.	10			1	1	
P-5	878+75	881+98	Rt.		315				
P-6	881+98			10			1		1
Totals				28	315	172	3	2	1

* 706.01 E.S. - 706.02 ... - 706.08 E.S. or 707.13

Removal Quantities

Mark	Station From	Station To	Side	202 Curb Remd As per Plan L.F.	202 Catch Basin Aban. Ea.
R-1	877+00	882+00	Lt.	500	
R-2	878+73				1
R-3	881+70				1
Totals				500	2

Excavation	374	C.Y.
Embankment	382	C.Y.
Seeding	700	S.Y.

See Sheet No. 63 For Profile

LINE SHEET STA. 877+00 TO STA 882+00

LINE SHEET

	DATE	CHECKED BY	DATE
E.A.	10-30-69	DRP	11-5-69
K.W.	10-31-69		
W.C.H.			
TITLES			

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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216

TRU-422-(14.70)-(16.38)

DRAINAGE

MARK	Station From	Station To	SIDE	603 Conduit Type C 8" LF	12" LF	15" LF	24" LF	Type B 12" LF	15" LF	27" LF	604 No 3A CB Ea.	No 2-2B CB Ea.	No 6 CB Ea.	No 2A-12 Inlet Ea.	No 1 M.H. Ea.	Spec. 8" 90° Bend
P-1	882+00	883+05	Rt.			107					1					
P-2	883+05	883+25	L-R							81		1				
P-3	883+25	884+19*	Lt.	94												1
P-4	884+90	885+20	Lt.					32					1			
P-5	885+20	886+00	Lt.							80					2	
P-6	885+90	886+00	Lt.					11						1		
P-7	885+21	886+03	Rt.					82			1					
P-8	886+00	887+00	Lt.				100									
Totals				94		107	100	125	81	80	2	1	1	1	2	

U.S. 422 ℄ Hinge Nail
72.62'
72.39'
Drill Hole in East End Conc. Pump Island.
N.W. Bolt in Conc. Sign Base

S.T. Sta. 884+72.74

℄ CONSTR CURVE DATA
P.I. Sta. 880+48.40
Δ = 16°20'Rt.
Dc = 2°-30'
R = 2291.83'
Ts = 428.99'
Es = 24.21'
Ac = 11°-20'
L.C. = 453.33'
Ls = 200.00'
Qs = 2°-30'
P = 0.73'
K = 99.99'
Xc = 199.96'
Yc = 2.91'
L.T. = 133.35'
S.T. = 66.68'
L.C. = 199.98'

NOTE: Adjoining Pavement of Frederick St. and Johnnycake Rd. is Traffic Compacted Surface Course over Traffic Bound Base, Widths as shown.

Δ = 85°25'
R = 25'
T = 22.68'
L = 37.27'

Δ = 90°-14'-53"
R = 30'
T = 30.13'
L = 47.14'

Δ = 87°55'
R = 30'
T = 28.93'
L = 46.03'

Δ = 88°-44'-51" *
R = 35'
T = 34.24'
L = 54.21'

Δ = 86°-11-10 ▲
R = 20.5'
T = 19.18'
L = 30.84'

DRIVES AND APPROACHES

Station	SIDE	TYPE	LENGTH	WIDTH	404 Asphalt Concrete 2" C.Y.	404 Asphalt Concrete 1¼" C.Y.	407 Tack Coat @0.1 Gal./S.Y. Gal.	408 Prime Coat @0.4 Gal./S.Y. Gal.	304 Agg. Base 6" C.Y.	304 Agg. Base 8" C.Y.	304 Agg. Base Var. C.Y.	402 Asph Conc. 1¼" C.Y.	452 8" Port. Cem. Conc. S.Y.
D-1 882+04	Lt.	Res.	17.5	12'	2.0			14.2	5.9				
D-2 882+20	Rt.	Bus	17.5	27'		2.1	1.2	17.8		1.9	6.5	1.9	
D-3 882+82	Rt.	Bus	20.5	30'		2.0	0.9	19.0		0.8	9.8	1.8	
D-4 883+46	Rt.	Bus	10'	38'									47
D-5 884+85	Rt.	Bus	5'	40'									20
D-6 13+25*	Lt.	Bus	16'	35'									67
D-7 14+33*	Lt.	Bus	11'	40'									45
D-8 886+50	Lt.	Bus	10'	22'		1.2		14.2		5.4		1.2	
D-9 16+38*	Rt.	Bus	6'	30'		0.6	2.1					0.3	
Totals						7.9	4.2	65.2		30.3		5.2	179

609 / 612

MARK	Station From	Station To	SIDE	609 Curb & Gutter Type 2 L.F.	609 Curb Type 6 L.F.	612 Concrete Traffic Island Pav't. C.Y.
CG-1	882+00	895+95.68	Lt.	382.68		
CG-2	882+00	884+98.19	Rt.	298.19		
CG-3	885+82.30	887+00	Lt.	104.70		
CG-4	885+98.80	887+00	Rt.	101.20		
CB-1	884+95.68	15+54.61*	Lt.		37.27	
CB-2	884+98.19	14+41.5 ⊗	Rt.		43.78	
CB-3	15+62.36*	885+82.30	Lt.		47.14	
CB-4	14+33.31*	887+00	Rt.		206.93	
CB-5	882+41	882+59	Rt.		31.49	1.3
CB-6	883+39	882+48	Rt.		9.77	
CB-7	883+94	883+97	Rt.		6.49	
CB-8	884+45	884+48	Rt.		5.92	
CB-9	884+92	884+95	Rt.		3.67	
Totals				886.77	392.46	1.3

202 & 305

MARK	Station From	Station To	SIDE	202 Removal Items Exist Pav't S.Y.	Exist Sidewalk S.F.	Exist Curb L.F.	Pipe 24" L.F.	C.B. Rem'd Ea.		305 Port. Cement Conc. Base S.Y.
R-1	882+00	882+73	Lt.			73				
R-2	883+35	883+45	Rt.			18				
R-3	884+73	885+13	Lt.			40				
R-4	885+50	885+75	Rt.		96					
R-5	885+66	887+00	Lt.			134				
R-6	886+00	887+00	Rt.			100				
P-2	883+11	883+21	L-R							18
P-5	885+31	885+52	L-R							12
P-7	885+22	885+55	Rt.							20
R-7	14+37 ⊗	14+55 ⊗	Rt.			18				
R-8	884+21		L-R				65	2		20
R-9	884+21	885+21	Rt.				100			
R-10	13+25⊗		Lt.	65						
R-11	14+33 ⊗		Lt.	58						
R-12	883+46		Rt.	220						
R-13	884+88		Rt.	178						
	TOTALS			521	96	383	165	2		70

✱604

MARK	Station	SIDE	Sanitary Man Holes Adj to Grd. Ea.
A-1	883+70	Rt.	1
A-2	885+10	Rt.	1
A-3	885+26	Lt.	1
	Total		3

✱100% City Participation

See Sheet No. 64 For Profile

Excavation ✓684 C.Y.
Embankment ✓436 C.Y.
Seeding ✓2231 S.Y.

B.M.#10 N.W. Corner Concrete Walk at Economy Savings And Loan, 104'Rt. Sta. 882+09 Elev. 909.196

* Stationing on Johnnycake Rd.
⊗ Stationing on Frederick St.

LINE SHEET

	BY	DATE	CHECKED BY	DATE
SURVEYED	E.A.	11-3-69	D.R.P.	11/5/69
PLOTTED	K.W.	11-5-69		
INKED	K.W.	5/71	R.L.M.	7/71
DESIGNED	W.C.H.	4/71	R.L.M.	7/71
QUANTITIES	W.C.H.	4/71		

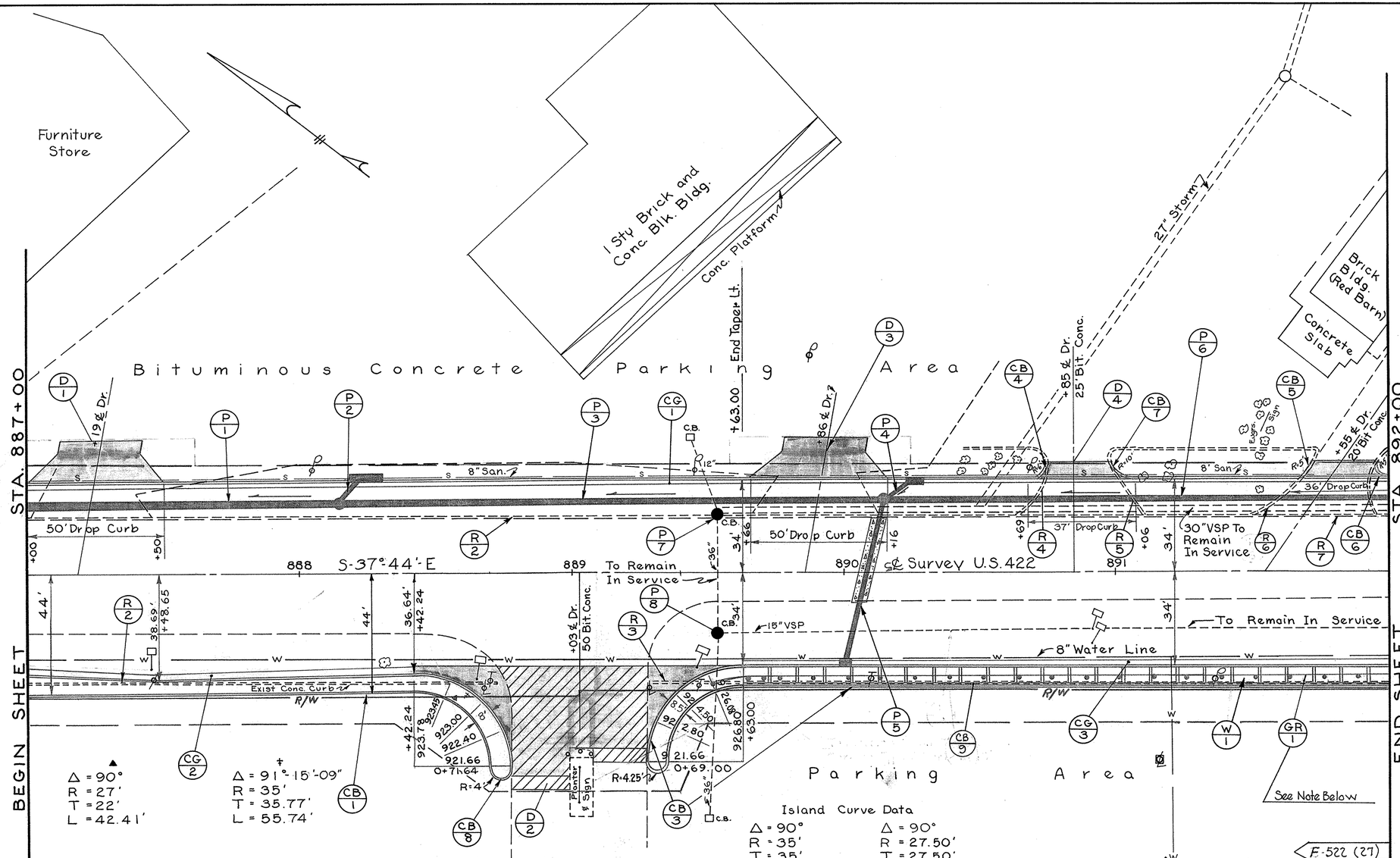
LINE SHEET STA. 882+00 TO STA. 887+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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TRU - 422 - (14.70) - (16.38)

LINE SHEET		
BY	DATE	CHECKED BY	DATE
E.A.	11-2-69	D.R.P.	11-6-69
K.W.	11-5-69		
K.W.		R.L.M.	
W.C.H.		R.L.M.	
W.C.H.	11-24-70	R.L.M.	
SURVEYED			
PLOTTED			
INKED			
DESIGNED			
QUANTITIES			



▲ Δ = 90°
R = 27'
T = 22'
L = 42.41'

‡ Δ = 91°-15'-09"
R = 35'
T = 35.77'
L = 55.74'

Island Curve Data

Δ = 90°	Δ = 90°
R = 35'	R = 27.50'
T = 35'	T = 27.50'
L = 54.98'	L = 43.20'

NOTE: Guard Rail has been spaced so posts on ends of panels (12'-6" Ctr to Ctr) do not conflict with stringers on cellular retaining wall. Special care should be used when placing posts at the following locations, due to the proximity to the stringers.
Sta. 889+91.70, 890+04.2, 890+41.7, 890+54.2, 890+91.7, 891+04.2, 891+41.7, 891+54.2, 891+91.7, 892+04.2, 892+41.7, 892+54.2, 892+91.7 & 893+04.2.
Posts placed between panels shall be in conflict with the stringers at the following locations.
Sta. 890+22.95, 890+72.95, 891+22.95, 891+72.95, 892+22.95 & 892+72.95.
Locations of these posts shall be adjusted to fit the field conditions. New holes shall be drilled to fit posts and rail element. Field galvanized. Cost of this work shall be included with Item 606, Guard Rail, Type 5.
If the Contractor so elects he may use alternate methods provided the intent of the above provisions is followed and approved by the Engineer.

DRIVES AND APPROACHES

MARK	Station	SIDE	TYPE	LENGTH	WIDTH	404 Asph. Conc. 1¼" C.Y.	404 Asph. Conc. Var. C.Y.	407 Tack Coat @0.1 G/SY. Gal.	408 Prime Coat @0.4 G/SY. Gal.	304 Agg. Base Var. C.Y.	304 Agg. Base 8" C.Y.	402 Asph Conc. 1¼" C.Y.
D-1	887+19	Lt.	Bus	15	30'	2.0			23.6		13.1	2.0
D-2	889+03	Rt.	Bus	33/45	25'	10.5		2.5	111.0	29.7	14.4	10.1
D-3	889+86	Lt.	Bus	15	30'	2.0			23.6		13.1	2.0
D-4	890+85	Lt.	Bus	7.5	25'	0.5			6.2		3.5	0.5
D-5	891+55	Lt.	Bus	7.5	24'	0.6			7.4		4.1	0.6
Totals						15.6		2.5	171.8	77.9		15.2

MARK	609 Station From	609 Station To	SIDE	Type 2 Curb & Gutter L.F.	Type 6 Curb L.F.	612 Conc. Traffic Island C.Y.
CG-1	887+00	892+00	Lt.	500		
CG-2	887+00	888+42.39	Rt.	142.39		
CB-1	887+00	888+42.39	Rt.		14239	
CB-2	888+163	892+00	Rt.			4.5
CB-3	889+28	892+00	Rt.		348.53	
CG-3	889+63	892+00	Rt.	237.00		
CB-4	890+695	890+755	Lt.		9.42	
CB-5	891+65	891+71	Lt.		9.12	
CB-6	891+96	892+01	Lt.		9.85	
CB-7	890+97	891+06	Lt.		11.32	
CB-8	888+42.39	888+78	Rt.		123.57	
Totals				879.39	654.20	4.5

DRAINAGE

MARK	Station From	Station To	SIDE	603 Conduit Type "B" 12" L.F.	18" L.F.	21" L.F.	24" L.F.	604 No.1 MH Ea.	No.3 C.B. Ea.	No. 3-A C.B. Ea.	No. 2A12 Inlet Ea.
P-1	887+00	888+15	Lt.				115	1			
P-2	888+15	888+25	Lt.	12							1
P-3	888+15	890+15	Lt.			200		1			
P-4	890+15	890+25	Lt.	12						1	
P-5	890+00	890+15	Lt.	63							1
P-6	890+15	892+00	Lt.		185						
P-7	889+54		Lt.					1			
P-8	889+54		Rt.					1			
Totals				87	185	200	115	4	1	1	1

MARK	202 & 305 Station From	Station To	SIDE	202 Curb Rem'd As Per Plan L.F.	305 Port Cem Conc Base S.Y.
R-1	887+00	888+73	Rt.	173'	
R-2	887+00	892+00	Lt.	500'	
R-3	889+30	892+00	Rt.	270'	
R-4	890+62	890+75	Lt.	28'	
R-5	890+98	891+12	Lt.	24'	
R-6	891+49	891+73	Lt.	30'	
R-7	892+97		Lt.	24'	
P-5	890+15	890+15	L-R		18
Totals				1049	18

606 & 610

MARK	STATION From	STATION To	SIDE	610 Cellular Retain. Wall S.F.	606 Gd. Rail Type 5 L.F.	606 Anchor Ass'y Ea.	
W-1	889+63	892+00	Rt.	1469.5			
GR1	889+54.2	892+00	Rt.		224	1	
TOTALS				1469.5	224 ✓	1 ✓	

Excavation	665 ✓	C.Y.
Embankment	242 ✓	C.Y.
Seeding	566 ✓	S.Y.

See Sheet No. 65 For Profile

LINE SHEET STA. 887+00 TO STA. 892+00

FED. RD. DIVISION	STATE	PROJECT		
2	OHIO			

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TRU-422-(14.70)-(16.38)

P.I. Sta 894 +87.92
Δ = 0°-21'-00" Rt

LINE SHEET	BY	DATE
SURVEYED	CK	7-30-69
PLOTTED	KW	8-4-69
INKED	KW	6-10-71
DESIGNED	WCH	R.L.M
QUANTITIES	WCH	R.L.M

BEGIN SHEET STA. 892+00

END SHEET STA. 897+00

Brick Bldg. (Red Barn)

Δ = 132°-30'-30"
R = 28'
T = 63.65'
L = 64.76'

1 Sty Conc. Blk Bldg.

Mon Box Sta. 301+00 Lt. 84.46'

Bolt Spk Set

Sta. 299+00

℄ US 422

Δ = 0°-21' Rt.

Bolt Spk Set

Sta 298+00

LR 2 — 902.30' From Intersection

P.I. Sta. 894+87.92

Concrete Approach

1 Sty. Conc. Block Bldg. Firestone Store

Concrete Approach

3' Conc. Walk

Δ = 46°-35'
R = 175.00'
T = 32.30'
L = 60.98'

3' Conc. Walk

Sign not to be disturbed

Conc. Retain Wall

Overhead Sign

Traffic Light Controls

Guy

Guard

Δ = 132°-30'-30"
R = 28'
T = 63.65'
L = 64.76'

Curb

San MH

CB

32' Drop Curb

Exist 30" To Remain in Service +40

40' Drop Curb

34' Drop Curb

43' Drop Curb

Conc. Appr.

Exist. Curb

8" Water Line

15" VSP To Remain in Service

10" Z

R/W

For Detail See Sheet No. 148

See Sheet No. 151

See Note Sheet No. 39

Conc. Retaining Wall

Conc. Retain Wall

Sta 894+87.92 ℄ US 422 = Sta 296+28.13 ℄ SR 46

S-37°-44'-E

S-37°-23'-E

℄ US 422

℄ S.R. 46

N-35°-38'-E

Δ = 103°-58'-38"
R = 35'
T = 44.71'
L = 63.46'

Δ = 77°-12'-00"
R = 50'
T = 39.91'
L = 67.37'

1 Sty Brick Service Station (Shell)

1 Sty Conc Block Service Station (Sohio) & Barber Shop

+Stationing on S.R. 46

Village Plaza Shopping Center

Bituminous Concrete Parking Area

T-4005(6)

606 AND 610								
MARK	STATION FROM	STATION To	SIDE	610 Cellular Retain Wall S.F.	606 Guard Rail Type 5 L.F.	606 Anchor Assembly Ea.		
W-1	892+00	893+03	Rt.	650.7				
GR-1	892+00	893+292	Rt.		101	1		
TOTALS				650.7	101	1		

DRIVES AND APPROACHES													
MARK	STATION	SIDE	TYPE	LENGTH	WIDTH	402 Asph Conc 1½" C.Y.	404 Asph Conc 1¼" C.Y.	407 Tack Coat @0.4 G/SY Gal.	408 Prime Coat @0.4 Gal/SY Gal.	304 Agg Base 8" C.Y.	452 Port. Cem. Conc. Pav't 8" S.Y.
D-1	892+35	Lt.	Bus.	8'	35'	1.0	1.0		11.2	6.3	
D-2	893+29.5	Rt.	Bus	5'	30'						24.0
D-3	893+74	Lt.	Bus	6.5	30'	0.7	0.7		8.6	4.8	
D-4	894+54	Rt.	Bus.	5'	30'						19.0
D-5	895+35	Rt.	Bus	6.5	30'	0.5	0.5		5.9	3.3	
D-6	896+00	Lt.	Bus.	6'	35'	0.8	0.8		9.3	5.2	
D-7	896+87	Lt.	Bus.		23'	2.7	2.7		31.5	17.5	
D-8	896+38	Rt.	Bus.	7'	35	0.5	0.8	2.1	0.6	0.3	
TOTALS						6.2	6.5	2.1	67.1	37.4	43.0

604			
MARK	STATION	SIDE	San. Man Hole Adj to Grd Ea.
A-1	892+11	Lt.	* 1
A-2	895+39	Lt.	* 1
TOTAL			* 2

* 100% City Participation

305				
MARK	STATION FROM	STATION To	SIDE	305 Port. Cem Concrete Base S.Y.
P-2	892+60	895+30	Lt.	81
P-4	895+30	895+82	L-R	34
TOTALS				115

609					660	612
MARK	STATION FROM	STATION To	SIDE	Curb & Gutter Type 2 L.F.	Curb Type 6 L.F.	Sodding S.Y.	Conc. Traffic Island C.Y.
CG-1	892+00	893+55.13	Lt.	155.13			
CG-2	892+00	894+27.02	Rt.	227.02			
CG-3	895+16.18	897+00	Lt.	216.18			
CG-4	895+67.91	897+00	Rt.	267.91			
CB-1	893+55.13	*297+63.57	Lt.		64.76		
CB-2	894+27.02	*295+59.71	Rt.		67.37		
CB-3	295+49.71	895+67.91	Rt.		63.46		
CB-4	296+95.88	895+16.18	Lt.		60.98		
CB-5	892+89	893+33	Lt.		22.84		
CB-6	895+17	895+82	Lt.		73.42	35	
CB-7	896+17	896+37	Lt.		31.40		
CB-8	892+00	893+42	Rt.		142.00		2.5
CB-9	895+79	896+60	Rt.		13.08		
TOTALS				866.24	539.31	35	2.5

DRAINAGE								
MARK	STATION FROM	STATION To	SIDE	603 Conduit Type "B" 12" L.F.	603 Conduit Type "B" 18" L.F.	604 No. I MH Ea.	604 No. 3-A C.B. Ea.	
P-1	892+00	892+60	Lt.		60	1		
P-2	892+60	895+30	Lt.		270	1		
P-3	895+25	895+30	Lt.	22			1	
P-4	895+30	895+82	L-R	72			1	
P-5	895+30	897+00	Lt.		170			
P-6	892+66		Rt.			1		
P-7	896+65		Rt.			1		
P-8	892+66		Lt.			1		
P-9	893+32		Rt.			1		
TOTALS				94	500	6	2	

202							
MARK	STATION FROM	STATION To	SIDE	Curb Rem'd As Per Plan L.F.	Curb & Gutter Rem'd L.F.	Pav't. Rem'd. S.Y.	C.B. Aban. Ea.
R-11	894+99		Lt.				1
R-12	896+65		Lt.				1
P-10	894+07		Rt.				1
R-1	892+00	893+42	Rt.	142			
R-2	892+00	892+52	Lt.	98			
R-3	892+82	*298+6247	Lt.		249		
R-4	893+29	893+37	Lt.	19			
R-5	894+00	894+24	Lt.		61	14	
R-6	893+15	894+80	Rt.	170		113 68	
R-7	894+19	897+00	Lt.	314			
R-8	895+17	895+83	Lt.	71			
R-9	896+17	896+31	Lt.	47			
R-10	895+70	896+78	Rt.	140			
TOTALS				1001	310	195	3

Excavation	720	C.Y.
Embankment	93	C.Y.
Seeding	305	S.Y.

See Sheet No. 66 For Profile

BM # 11 N. End of Center of Gas Pump Island 93' Lt of Sta. 893+36 Elev. 942.288

LINE SHEET STA. 892+00 TO STA 897+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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TRU-422-(14.70)-(16.38)

SHEET	DATE	BY
SURVEYED	11-14-69	EA
PLOTTED	11-18-69	KW
INKED		KW
DESIGNED		WCH
QUANTITIES		WCH
CHECKED BY	1-19-70	RLM
		RLM

DRIVES

MARK	STATION	SIDE	TYPE	LENGTH	WIDTH	404 Asph Conc 1¼" C.Y.	404 Asph Conc 2" C.Y.	452 Port. Cem. Conc. 8" S.Y.	408 Prime Coat @0.4 Gal/S.Y. Gal.	304 Agg. Base 6" C.Y.	304 Agg. Base 8" C.Y.	402 Asph Conc 1¼" C.Y.
D-1	897+20	Rt.	Bus	2	35	0.2			2.5		1.4	0.2
D-2	898+14	Lt.	Bus	18	35	4.7			54.5		30.3	4.7
D-3	898+85	Rt.	Bus	2	35	0.1			1.0		0.5	0.1
D-4	899+15	Lt.	Bus	5.5	35	0.8			9.3		5.2	0.8
D-5	899+55	Rt.	Bus	7.5	22			19.9				
D-6	900+60	Lt.	Res.	5	28		0.9		6.4	2.7		
D-7	901+64	Lt.	Res.	8	42		3.1		21.7	9.0		
TOTALS						9.8	19.9	95.4		49.1		5.8

202

MARK	STATION FROM	STATION TO	SIDE	Curb Removed As Per Plan L.F.	Pav't Rem'd S.Y.
R-1	897+00	902+00	Lt.	500	
R-2	897+87		Lt.	16	
R-3	897+64	897+77	Rt.	18	
R-4	894+30	894+95	Lt.	140	
R-5	898+61	898+80	Rt.	30	
R-6	899+08	899+30	Rt.	34	
R-7	899+30	899+74	Rt.	35	82.8
TOTAL				773	82.8

DRAINAGE

MARK	STATION FROM	STATION TO	SIDE	603 Type "B" 12" L.F.	603 Type "B" 15" L.F.	603 Type "B" 18" L.F.	604 No.1 M.H. Eq.	604 No 3 C.B Eq.	604 No3A C.B Eq.
P-1	897+00	897+40	Lt.			40			
P-2	897+40	897+50	Lt.	10			1	1	
P-3	897+40	900+85	Lt.		345				
P-4	900+85	900+95	Lt.	10				1	
P-5	900+85	902+00	Lt.	115					
P-6	900+85		L-R	56			1		1
P-7	897+00	902+00	Rt.						
P-8	899+56		Rt.				1		
TOTALS				191	345	40	3	2	1

609

MARK	STATION FROM	STATION TO	SIDE	Curb & Gutter Type 2 L.F.	Conc. Curb Type 6 L.F.	612 Concrete Traffic Island Pav't C.Y.
CG-1	897+00	902+00	Lt.	500		
CG-2	897+00	902+00	Rt.	500		
CB-1	897+00	897+18	Rt.		30.20	1.3
CB-2	897+64	-	Rt.		2.00	
CB-3	897+87	898+03	Lt.		26.50	
CB-4	898+70	898+79	Rt.		12.00	
CB-5	898+38	898+89	Lt.		63.84	4.5
CB-6	899+09		Rt.		2.00	
CB-7	899+25	899+34	Lt.		20.78	
CB-8	899+36	899+45	Rt.		11.62	
CB-9	899+67	899+72	Rt.		10.5	
TOTALS				1000	179.44	5.8

604

MARK	STATION	SIDE	San Man Hole Adj to Grade Eq.
A-1	901+69	Lt.	*1
TOTAL			*1

*100% City Participation

Excavation	1264 C.Y.
Embankment	44 C.Y.
Seeding	495 S.Y.

See Sheet No 67 For Profile

305 BASE REPLACEMENT

MARK	STATION FROM	STATION TO	SIDE	Port. Cem Conc Base S.Y.
P-6	900+85			24
TOTAL				24

B.M.#12 Bt. Spike in W. Side P/P 40' Rt. Sta. 901+79 Elev. 967.546

NOTE: Locate Exist. 12" Pipe at Sta. 898+95± and connect to Proposed Conduit using 15"x12"WYE

D-1 NOTE: ELEV. OF DROP CURB MATCHES ELEV. OF EXIST. DRIVE. MATERIAL PROVIDED FOR FORM CUT ONLY.

BEGIN SHEET

END SHEET

STA. 897+00

STA. 902+00

LINE SHEET STA. 897+00 TO STA. 902+00

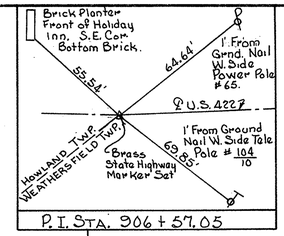
FED. RD. DIVISION	STATE	PROJECT		
2	OHIO			

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TRU-422-(14.70)-(16.38)

CURVE DATA

P.I. STA. 906 + 57.05
Δ = 0°-20'-00" Lt.
D = 0°-10'
R = 34,377.48'
T = 100.00'
E = 0.15'
L = 200.00'



DRIVES AND APPROACHES

MARK	STATION	SIDE	TYPE	LENGTH	WIDTH	304 Agg. Base Var. C.Y.	304 Agg. Base 6" C.Y.	304 Agg. Base 8" C.Y.	404 Asph Conc 2" C.Y.	404 Asph Conc 1¼" C.Y.	402 Asph Conc 1¼" C.Y.	407 Tack Coat @0.1 G/SY Gal.	408 Prime Coat @0.4 G/SY Gal.
D-1	902+00	Rt.	Bus	7.5	35					1.4	1.4	3.9	
D-2	905+74	Rt.		6.5	30	1.9				1.2	0.9	1.6	7.7
D-3	905+93	Lt.		32	26			21.0		3.3	3.3		37.9
D-4	906+37	Rt.		9.5	14		4.2		1.4				10.1
D-5	906+60	Lt.		5.5	29			4.8		0.8	0.8		8.7
TOTALS							33.3		8.1		6.4	5.5	64.4

609

MARK	STATION FROM	STATION TO	SIDE	TYPE 2 CURB & GUTTER L.F.	Conc Curb Type 6 L.F.
CG-1	902+00	907+00	Lt.	500	
CG-2	902+00	907+00	Rt.	500	
CB-1	905+70	905+77	Lt.		41.00
CB-2	906+03	906+10	Lt.		41.00
TOTALS				1000	82.00

DRAINAGE

MARK	STATION FROM	STATION TO	SIDE	603 Conduit TYPE "B" 12" L.F.	15" L.F.	24" L.F.		604 No.1 MH Ea.	604 No.3 C.B Ea.	604 No.3-A C.B Ea.	604 MH Adj. to Grd Ea.
P-1	902+00	903+50	Lt.	150					1		
P-2	906+17	906+55	Lt.		38				1		
P-3	906+55	907+00	Lt.			45		1			
P-4	906+19	906+60	Rt.	42						1	
P-5	904+31		Lt.								1
TOTALS				192	38	45		1	2	1	1*

202 REMOVAL ITEMS

MARK	STATION FROM	STATION TO	SIDE	202 Curb Rem'd LF	202 C.B. Rem'd. EA.	202 C.B Aban. EA.
R-1	902+00	907+00	Lt.	500		
R-2	905+78		Lt.	24		
R-3	906+03		Lt.	26		
R-4	903+21		Lt.		1	
R-5	903+71		Lt.		1	
R-6	905+05		Lt.		1	
R-7	906+26		Lt.		1	
R-8	903+13		Rt.			1
TOTALS				550	4	1

*100% City Particapation

Excavation	980	C.Y.
Embankment	72	C.Y.
Seeding	1050	S.Y.

See Sheet No. 68 For Profile

LINE SHEET STA. 902+00 TO STA. 907+00

LINE SHEET	BY	DATE	CHECKED BY	DATE
SURVEYED	EA	11-13-69	DRP	11-18-69
PLOTTED	KW	11-14-69		
INKED	KW		RLM	
DESIGNED	WCH		RLM	
QUANTITIES	WCH	4-71		2-71

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

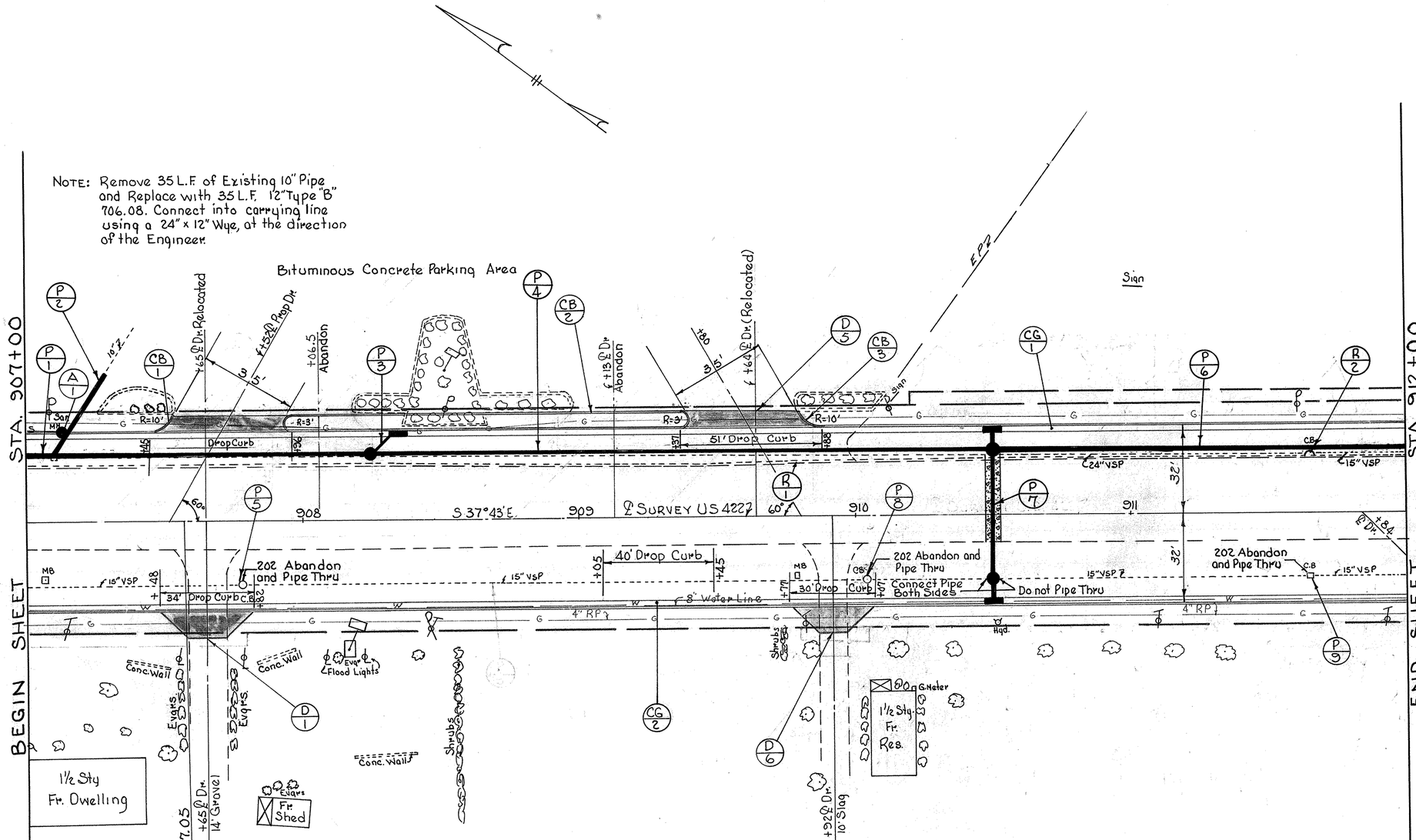
TRU-422-(14.70)-(16.38)

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SHEET	BY	DATE
SURVEYED	E.A.	2-13-69
PLOTTED	K.W.	5-17-69
LINKED	K.W.	4-15-71
DESIGNED	W.C.H.	3-71
QUANTITIES	W.C.H.	3-71
CHECKED BY	V.P.	1-19-70
	R.L.M.	4-71
	R.L.M.	7-71

LINE SHEET

NOTE: Remove 35 L.F. of Existing 10" Pipe and Replace with 35 L.F. 12" Type "B" 706.08. Connect into carrying line using a 24" x 12" Wye, at the direction of the Engineer.



DRIVES AND APPROACHES

MARK	STATION	SIDE	TYPE	LENGTH	WIDTH	402 Asph. Conc. 1¼" C.Y.	304 Agg. Base 6" C.Y.	304 Agg. Base 8" C.Y.	404 Asph. Conc. 2" C.Y.	404 Asph. Conc. 1¼" C.Y.	408 Prime Coat @0.4 G/SY Gal.
D-1	907+65	Rt.	Res.	9.5	14		4.2		1.4		10.1
D-2	907+52	Lt.	Bus.	6.5	35	0.8		4.9		0.8	8.8
D-5	909+80	Lt.	Bus.	6.5	35	0.8		4.9		0.8	8.8
D-6	909+92	Rt.	Res.	9.5	10		3.5		1.2		8.4
TOTALS						1.6	17.5		4.2		36.1

MARK	609 STATION FROM	609 STATION TO	SIDE	609 TYPE 2 CURB & GUTTER L.F.	612 Curb Type 6 L.F.	612 Concrete Traffic Island Pav't. C.Y.
CG-1	907+00	912+00	Lt.	500		
CG-2	907+00	912+00	Rt.	500		
CB-1	907+45	907+54	Lt.		11.59	
CB-2	907+93	909+40	Lt.		159.84	9.5
CB-3	909+79	909+88	Lt.		11.59	
TOTALS				1000	183.02	9.5

* Bends and Branches

DRAINAGE

MARK	STATION FROM	STATION TO	SIDE	202 CB Aban. Ea.	603 Conduit Type "B" 12" L.F.	21" L.F.	24" L.F.	12" 706.08 L.F.	604 No.1 M.H. Ea.	No.3 C.B. Ea.	No.3-A C.B. Ea.	* 12" X24" Wye Ea.
P-1	907+00	908+25	Lt.				125		1			
P-2	907+10	907+28	Lt.					35				1
P-3	908+25	908+35	Lt.		10					1		
P-4	908+25	910+50	Lt.				225		1	1		
P-5	907+48		Rt.	1								
P-6	910+50	912+00	Lt.			150						
P-7	910+50		L&R		64				1	1	1	
P-8	910+04		Rt.	1								
P-9	911+65		Rt.	1								
TOTALS				3	74	150	350	35	3	2	1	

202 REMOVAL ITEMS

MARK	STATION FROM	STATION TO	SIDE	Pipe Removed 24"ℓ Under L.F.	C.B. Rem'd Ea.	Curb Rem'd L.F.	Pav't Rem'd S.Y.
R-1	907+00	912+00	Lt.			500	
R-2	909+50	911+65	Lt.	215	1		
P-7	910+50		L-R				17.8
TOTALS				215	1	500	17.8

† 100% City Participation

BASE REPLACEMENT

MARK	STATION	SIDE	305 Port. Cem. Concrete Base S.Y.
P-7	910+50	L-R	17.8
TOTAL			17.8

604 MARK	STATION	SIDE	San MH Adj. to Grd. Ea.
A-1	907+13	Lt.	† 1
TOTAL			† 1

Excavation	1015 C.Y.
Embankment	25 C.Y.
Seeding	601 S.Y.

See Sheet No. 69 For Profile

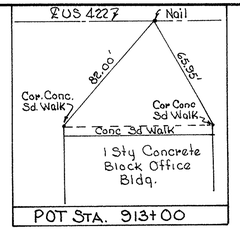
B.M. #13 Drill Hole in Concrete Curb, 73' Lt. Sta. 908+53 Elev. 988.288

LINE SHEET STA. 907+00 TO STA. 912+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

44
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TRU-422-(14.70)-(16.38)



DRIVES AND APPROACHES

MARK	STATION	SIDE	TYPE	LENGTH	WIDTH	△	304 Agg Base 6" C.Y.	304 Agg Base 8" C.Y.	404 Asph. Conc 2" C.Y.	404 Asph. Conc 1¼" C.Y.	402 Asph Conc 1¼" C.Y.	408 Prime Coat @0.4 Gal/SY Gal.
D-1	9114+84	Rt.	Bus.	111'	30	45		8.1		1.3	1.3	14.7
D-2	9124+26	Lt.	Res.	22'	12'	90	6.7		2.3			16.2
D-3	9124+97	Rt.	Bus.	6'	30	50		4.4		0.7	0.7	8.0
D-4	9131+63	Lt.	Res.	22'	10'	90	5.9		2.0			14.2
D-5	9141+39	Lt.	Bus.	18'	14'	90		8.7		1.4	1.4	15.6
D-6	9141+87	Rt.	Res.	10'	10'	90	3.7		1.3			8.3
TOTALS							37.5		9.0		3.4	77.6

609

MARK	STATION FROM	STATION TO	SIDE	TYPE 2 CURB & GUTTER L.F.
CG-1	912+00	917+00	LT.	500
CG-2	912+00	917+00	RT.	500
TOTAL				1000

DRAINAGE

MARK	STATION FROM	STATION TO	SIDE	603 Type "B" 12" L.F.	603 Type "B" 15" L.F.	603 Type "B" 21" L.F.	604 No.1 Manhole Ea.	604 No.3 C.B. Ea.	
P-1	912+00	913+90	Lt.			190	1		
P-2	913+90	914+00	Lt.	10				1	
P-3	913+90	916+90	Lt.		300		1		
P-4	916+90	917+00	Lt	10				1	
P-5	916+90	917+00	Lt	10					
P-6	915+14		Rt.				1		
TOTALS				30	300	190	3	2	

202 REMOVAL ITEMS

MARK	STATION FROM	STATION TO	SIDE	Curb Rem'd As Per Plan L.F.	Catch Basin Rem'd. Ea.	Catch Basin Aban. Ea.
R-1	912+00	917+00	Lt.	500		
R-2	915+14		Lt.		1	
R-3	912+46		Rt			1
TOTALS				500	1	1

Excavation	1281	C.Y.
Embankment	10	C.Y.
Seeding	1039	S.Y.

See Sheet No. 70 For Profile

LINE SHEET STA. 912+00 TO STA. 917+00

LINE SHEET	BY	DATE
SURVEYED	E.A.	1-2-70
PLOTTED	K.W.	1-7-70
INKED	K.W.	4-15-71
DESIGNED	W.C.H.	
QUANTITIES	W.C.H.	
CHECKED BY	V.P.	1-19-70
	R.L.M.	
	R.L.M.	

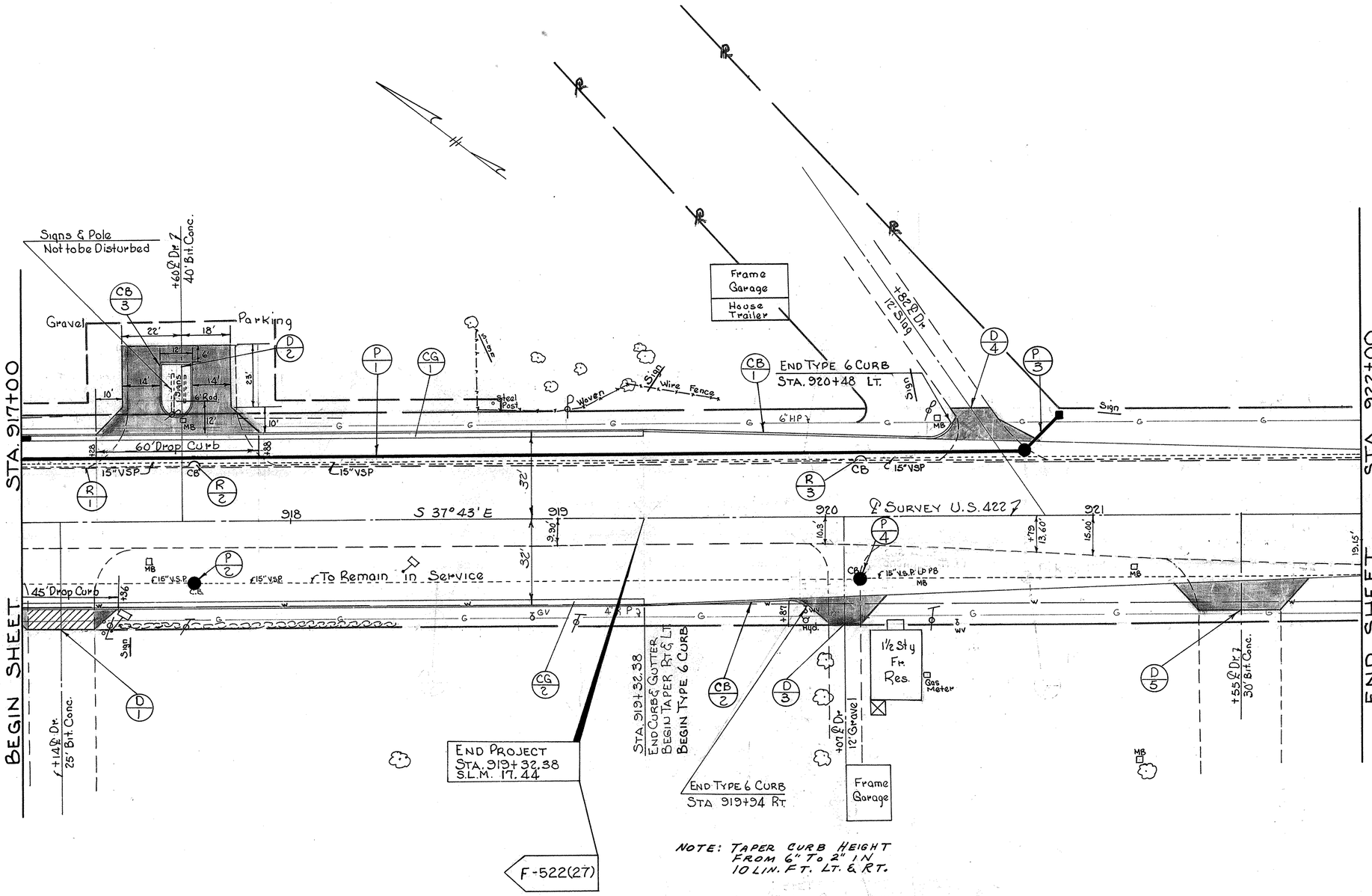
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

TRU-422-(14.70)-(16.38)

45/216

LINE SHEET

	BY	DATE	CHECKED BY	DATE
SURVEYED	EA	1-7-70	V.P.	1-18-70
PLOTTED	KW	1-8-70		
INKED	KW		RLM	2-2
DESIGNED	WCH	3-2	RLM	2-2
QUANTITIES	WCH			



NOTE: TAPER CURB HEIGHT FROM 6" TO 2" IN 10 LIN. FT. LT. & RT.

DRIVES AND APPROACHES

MARK	STATION	SIDE	TYPE	LENGTH	WIDTH	404 Asph Conc 2" C.Y.	404 Asph Conc 1¼" C.Y.	402 Asph Conc. Var. C.Y.	402 Asph Conc. 1¼" C.Y.	304 Aggr. Base 6" C.Y.	304 Aggr. Base 8" C.Y.	407 Tack Coat @0.1 G/SY Gal	408 Prime Coat @0.4 G/SY Gal
D-1	917+14	Rt.	Bus	8'	25'		1.1	0.5	0.3		2.0	2.2	3.5
D-2	917+60	Lt.	Bus	33'	40'		4.7		4.7		30.2		54.3
D-3	920+07	Rt.	Res	10'	12'	1.4				4.1			9.9
D-4	920+82	Lt.	Res	14'	12'	1.6				4.7			11.4
D-5	921+55	Rt.	Bus	12'	30'		1.5		1.5		9.9		17.8
TOTALS							10.3		7.0		50.9	2.2	99.9

609

MARK	STATION FROM	STATION TO	SIDE	Curb & Gutter Type 2 L.F.	Conc Curb Type 6 L.F.
CG1	917+00	919+32.38	Lt.	232.38	
CG2	917+00	919+32.38	Rt.	232.38	
CB1	919+32.38	920+48	Lt.		116.50
CB2	919+32.38	919+94	Rt.		62.52
CB3	917+52	917+64	Lt.		60.84
TOTALS				464.76	239.86

DRAINAGE

MARK	STATION FROM	STATION TO	SIDE	603 Type B 12" L.F.	604 No. MH Ea.	604 No. 22A C.B Ea.
P-1	917+00	920+88	Lt.	388	1	
P-2	917+64				1	
P-3	920+75	920+88	Lt.	20		1
P-4	920+13		Rt.		1	
TOTALS				408	3	1

202 REMOVAL ITEMS

MARK	STATION FROM	STATION TO	SIDE	Curb Rem'd. As Per Plan L.F.	Catch Basin Rem'd. Ea.
R-1	917+00	922+00	Lt.	500	
R-2	917+65		Lt.		1
R-3	920+13		Lt.		1
TOTALS				500	2

Excavation	1080	C.Y.
Embankment	57	C.Y.
Seeding	1574	S.Y.

See Sheet No. 71 For Profile

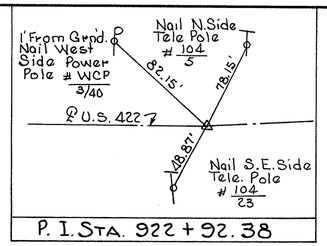
B.M. #14 N.W. Corner Bottom Concrete Step, 104' Left Sta. 917+89, Lester's Ski Chalet Elev. 1029.551

LINE SHEET STA. 917+00 TO STA. 922+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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216

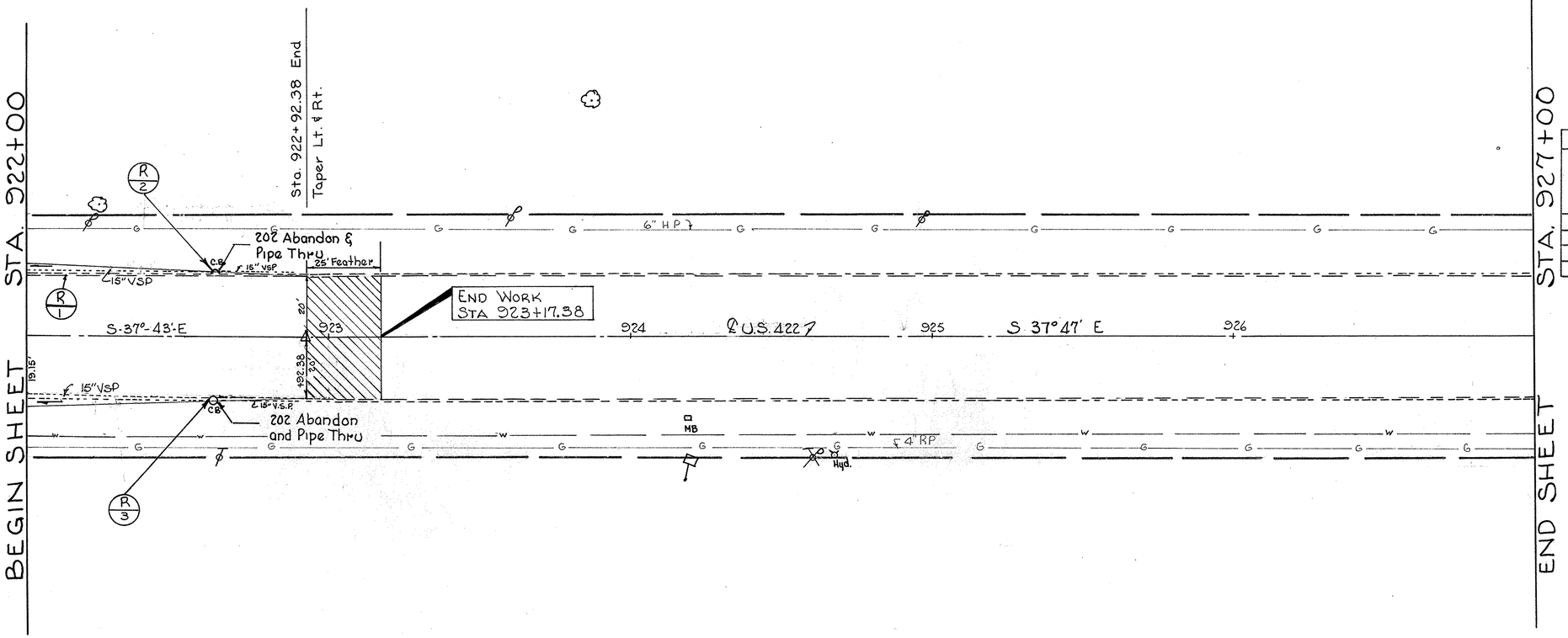
TRU-422-(14.70)-(16.38)



P. I. STA. 922 + 92.38

Def. Sta. 922+92.38
Δ = 0°-04'-00"-Lt.

Note: Typical Section
Adjoining Pavement similar
to Existing Pavement shown
on sheet #2, Typical Section "A"



REMOVAL ITEMS

MARK	STATION FROM	STATION To	SIDE	202 Curb Rem'd As per Plan L.F.	202 Catch Basin Aband. Ea.
R-1	922+00	922+92.38	Lt.	92.38	
R-2	922+53		Lt.		1
R-3	922+52		Rt.		1
TOTAL				92.38	2

Excavation	121	C.Y.
Embankment	6	C.Y.
Seeding	205	S.Y.

See Sheet No 72
For Profile

LINE SHEET STA. 922+00 TO STA. 927+00

LINE SHEET	BY	DATE
SURVEYED	EA	1-7-70
PLOTTED	KW	1-8-70
INKED	KW	4-16-71
DESIGNED	WCH	
QUANTITIES	WCH	3-77
CHECKED BY	V.P	1-19-70
	R.L.M	
	R.L.M	

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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216

TRU-422-(14.70)-(16.38)

NOTE: Proposed Profile to be approx. 2½' above exist pav't.

BEGIN WIDENING & RESURFACING
STA. 774+57.60

-4.43%±

BEGIN WORK
STA 773+63

+77 62' Rt. No 6 C.B. (Mod)
El. Gr. 977.75
F.L. El. 974.00

P-8 32 LF. 604 Spec.
Trench Drain

+13 21.5 Rt
Exist C.B

Exist CB
70" Rt Gr
El 977.98

+74 36' Lt. No. 2-2B C.B.
El. Gr. 976.90
F.L. El. 974.20

+92.5 38' Rt. No. 1 M.H.
El. Top 976.8
F.L. El. 968.03

BEGIN PROJECT
STA. 776+ 39.98
SLM 14.70

P-7 24 LF. 12" Type "C"
@ 11.30%

+83 Exist
C.B. 23 Rt
El. Gr. 976.42

+61 44' Lt. No. 6 C.B.
El. Gr. 972.23
F.L. 969.50

+15 32' Rt. No 3 A C.B.
El. Gr. 975.07
F.L. 972.00

+67 23' Lt. No. 1 M.H.
El. Top 973.09
F.L. El. 967.99

F.L. Exist 12"
976.39

+61 San
M.H.

F.L. C.B. 974.80

P-1 87 LF 6"
Type C" @ 4.20%

P-1 F.L. in 6"
970.55

F.L. 6" In 974.26

-4.00%

P-5 28 LF. 18" Type "C"
@ 6.50%

P-5 F.L. In 972.18

P-2 21 LF Type "B" 12"
@ 2.00%

P-1 F.L. In
971.69

12" San Ln

F.L. P-2 In 969.08

P-6 108 L.F. 21"
Type "C" @ 3.42%

F.L. 12" San Ln
961.36

SCALES
0 5 10 1 0

No. 6 C.B.

No. 1 M.H.

P-8 Prop 6"

21 LF 12" Type "B" @ 2.00%

F.L. C.B. 969.50

F.L. 12" In 969.08

Exist 12"

P-2 PROFILE

30 20 10 0

Excavation	294	C.Y.
Embankment	4	C.Y.
Seeding	175	S.Y.

See Sheet No. 16
For Plan View

SCALES
0' 10' 20'
2 1 0

PROFILE STA. 772+00 TO STA. 777+00

E.A.	9-2-69	
K.W.	9-5-69	
K.W.	5-25-71	
W.C.H.	4-7-71	5-71
W.C.H.	4-7-71	5-71
E.H.W.	11-26-69	
N.E.D.		5-71
N.E.D.		5-71

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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216

TRU-422-(14.70)-(16.38)

NOTE: Proposed Profile to be approximately 2½" above existing pavement

	BY	DATE	CHECKED BY	DATE
SURVEYED	E.A.	9-2-69		
PLOTTED	K.W.	9-5-69	E.H.W.	11-26-69
LINED	J.S.	2-25-71		
DESIGNED	W.C.H.	4-71	N.E.D.	5-71
QUANTITIES	W.C.H.	4-71	N.E.D.	5-71

777 778 779 780 781 782

970 968 966 964 962 960 958 956 954 952 950 948 946 944

E.H. 12" Lt. @ 4.17%

-4.00%

+67 36' Rt. No 1 MH
El. Top 965.6
F.L. El. 958.38

779+50 San MH 45' Lt.
Elev. Top 961.61

12" San

P-3 167 L.F. 21"
Type C @ 3.42%

P-3 F.L. 21" In 958.63

12" San Lt.

E.H. 12" Lt. @ 4.18%

P-4 226 L.F. 24"
Type "C" @ 3.54%

F.L. 12" San Lt
951.56

+25 23' Lt. No. 1 MH
El. Top 958.23
F.L. El. 952.55

+25 32' Lt. No 3A CB
El. Grate 957.79
F.L. El. 955.00

+85 32' Rt. No 3A CB
El. Gr. 954.90
F.L. El. 952.00

P-5 91 L.F. 12" Type "C" @ 2.00%

+93 No. 1 MH 36' Rt.
El. Top 955.3
F.L. El. 949.47

+93 No 1 MH 23' Rt.
El. Top 954.96
F.L. El. 949.35

F.L. 12" P-5 IN 951.82

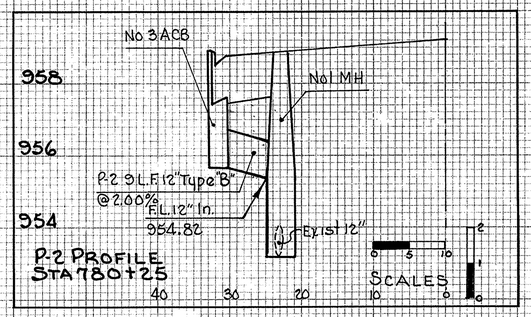
P-4 F.L. 24" In 949.47

Exist. 15" Rt

P-6 107 L.F. 24" Type "C" @ 4.40%

Exist. 12" Lt. @ 4.41%

P-2 PROFILE STA 780+25



Excavation	1134	C.Y.
Embankment	19	C.Y.
Seeding	812	S.Y.

911.74 946.78 963.81 959.45 954.67 949.35

777 778 779 780 781 782

See Sheet No. 17 For Plan View.

2
1
0
0 10 20
SCALES

PROFILE STA. 777+00 TO STA. 782+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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216

TRU-422-(14.70)-(16.38)

LINE SHEET	BY	DATE	CHECKED BY	DATE
SURVEYED	E.A.	8-27-69	E.H.W.	12-8-69
PLOTTED	K.W.	9-5-69		
INKED	K.W.	5-26-71		5-27-71
DESIGNED	W.C.H.	4-71	N.E.D.	
QUANTITIES	W.C.H.	4-71	N.E.D.	5-71

782 950.25 | 783 946.24 | 784 942.38 | 785 939.14 | 786 936.57 | 787 934.53

+21 941.70 | +46 935.63

950 948 946 944 942 940 938 936 934 932 930 928

NOTE:
Proposed Profile to be approximately 2½" above existing pavement

P-5 91 L.F. 12" Type "C" @ 2.00%

+63 36' Rt. No.1 MH
El. Top 944.00
F.L. 937.34

+55 32' Rt. No.3 A.C.B.
El. G.r. 948.32
F.L. 940.50

+63 23' Lt. No.1 MH
El. Top 943.45
F.L. El. 937.55

-4.00%

200' V.C.

Ex. 12" Lt. @ 4.41%

P-4 163 L.F. 24" Type "C" @ 4.40%

P-5 F.L. In 940.32

P-4 F.L. 24" In 937.58

12" Lt. @ 2.37%

15" Rt.

P-7 245 L.F. 27" Type C @ 3.16%

+20 23' Rt. No.1 MH
El. Top 938.27
F.L. El. 933.48

+38 San MH 52.5' Rt.
El. Top 938.14

+00 32' Lt. No.3 C.B.
El. G.r. 935.77
F.L. El. 932.75

+00 32' Rt. No.3 C.B.
El. Top 938.27
F.L. 933.48

+00 22' Lt. No.1 MH
El. Top 936.23
F.L. El. 931.93
P-8 91 L.F. 12" Type "C" @ 2.00%

+08 36' Rt. No.1 MH
El. Top 936.11
F.L. El. 929.35

-2.00%

P-8 F.L. In 932.57

12" San

12" San Rt.

F.L. 27" P-9 I/N 929.60

Exist. 12" Lt.

Exist. 15" Rt.

P-9 92 L.F. 30" Type "C" @ 2.21% (Rt.)

No.1 M.H.

No.3 C.B.

P-3 10 L.F. 12" Type B @ 2.00%

F.L. 12" In 932.55

Exist 12"

2 1 0

0 5 10 40 30 20 10 0

SCALES

P-3 PROFILE

Excavation	1036	C.Y.
Embankment	151	C.Y.
Seeding	938	S.Y.

See Sheet No. 18 For Plan View

2 1 0

0 10 20

SCALES

782 949.95 | 783 945.97 | 784 942.05 | 785 938.83 | 786 936.26 | 787 934.25

PROFILE STA. 782+00 TO STA. 787+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

50
216

TRU-422-(14.70)-(16.38)

LINE & GRADE	BY	DATE	CHECKED BY	DATE
SURVEY	EA	8-27-69	EHW	12-8-69
PLOTTED	KW	9-8-69		
TRACED	KW	5-27-71	NED	5-71
DESIGNED	WCH	4-71	NED	5-71
QUANTITIES	WCH	4-71		

℄ ELEV. 934.55 | 932.62 | 930.20 | 933.32 | 927.87 | 926.38

787 | 788 | 789 | 790 | 791 | 792

+22 23' Rt. No.1 MH
El. Top 938.75
F.L. El. 927.87

+15 32' Rt. No.3ACB
Gr. El. 933.44
F.L. El. 931.00

P-6 16 LF 12" Type "C" @ 2.00%

+30 36' Rt. No.1-A MH
El. Top 933.34
F.L. El. 926.40

-2.00%

+76 C.B. Lt.
El. Top 933.0

P-6 F.L. 12" In 930.68

+71 51.5' Rt.
Exist San M.H.

+36 21' Lt. No.1 MH
El. Top 929.05
F.L. El. 922.06

+12 32' Rt.
No.3 C.B.
Gr. El. 928.35
F.L. 925.80

P-8 9 LF. 12" Type "C" @ 2.00%

+20 36' Rt. No.1-A M.H.
El. Top 929.0
F.L. El. 921.60

+37 23' Rt. No.1 MH
El. Top 927.08
F.L. El. 921.08

789+29 36' Lt.
10" x 45° Bend
F.L. El. 926.43

+33 32' Lt. No.3ACB
El. Gr. 929.58
F.L. El. 926.24

+31 36' Lt.
10" x 30° Bend
F.L. El. 926.90

P-2 102 LF 10" Type C @ 0.48%

F.L. 10" In 926.41

P-3 64 LF 15" Type "B" @ 1.00%

F.L. 15" In 925.60

-1.6% ±

P-8 F.L. 12" In 925.62

Exist 15" Rt.

Exist 12" Lt.

P-5 F.L. 30" In 926.65

12" San.

P-5 30 LF 30" Type "C" @ 2.21%

F.L. 923.33 12" San. (Rt.)

P-7 290 L.F. 33" Type "C" @ 1.57%

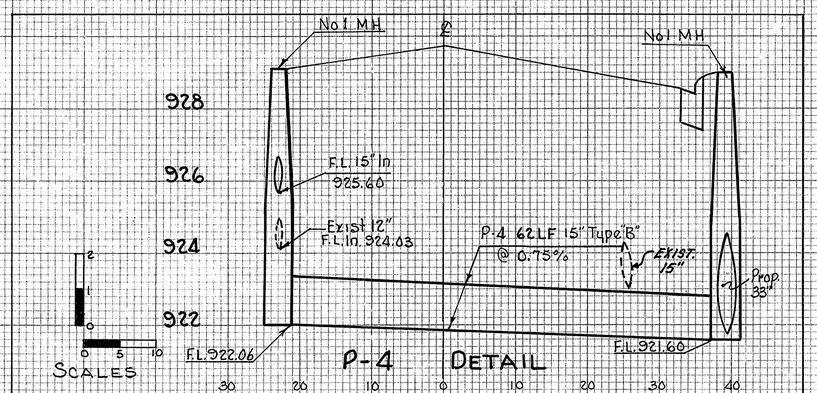
P-7 F.L. 33" In 921.85

P-4 62 LF Type "B" @ 0.75%

P-9 180 L.F. 36" Type "C" @ 1.40%

934 / 932 / 930 / 928 / 926 / 924 / 922 / 920

NOTE:
Proposed Profile to be approximately 2½" above existing pavement.



P-4 DETAIL

Excavation	864	C.Y.
Embankment	207	C.Y.
Seeding	884	S.Y.

See Sheet No. 19 For Plan View

2
1
0
0 10 20
SCALES

934.25 | 932.32 | 930.63 | 929.03 | 927.56 | 926.40

787 | 788 | 789 | 790 | 791 | 792

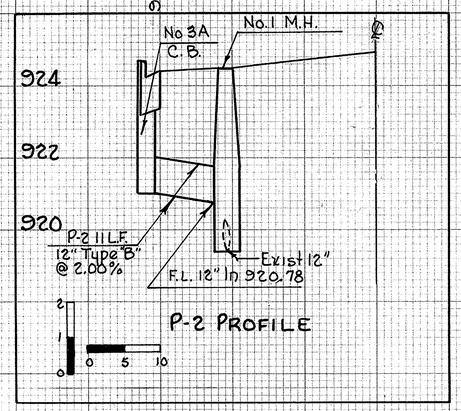
PROFILE STA. 787+00 TO STA. 792+00

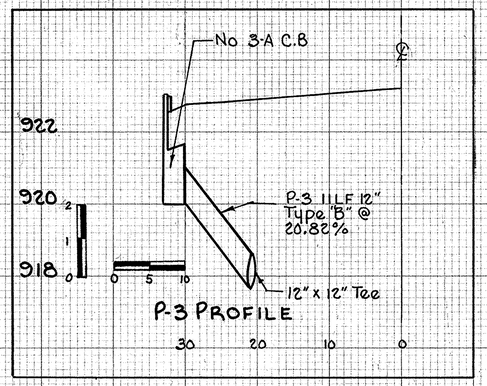
FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

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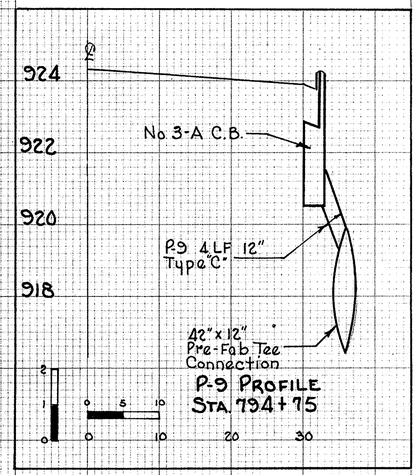
TRU-422-(14.70)-(16.38)

E.A.	8-27-69	E.H.W.
R.W.	9-8-69	
K.W.	5-28-71	NED 4-71
DESIGNED	W.C.H.	NED 4-71
QUANTITIES	W.C.H.	4-71





NOTE:
Proposed Profile to be approximately 2½" above existing pavement.



+01 34' Rt. No. 3 C.B
El. Gr. 926.01
F.L. El. 923.00

P-4 11 L.F. 12" Type "B" @ 2.00%

+12 36' Rt. No 1-A M.H.
El. Top 926.15
F.L. El. 918.41

+46 59.5' Rt. No 3-A C.B.
El. Gr. 925.90
F.L. El. 923.00

P-4 F.L. 12" In 922.78

P-7 41 L.F. 12" Type "B" @ 1.60%

P-7 F.L. 12" In 922.59

-1.0%

+06 32' Lt. No 3A C.B
El. Gr. 924.05
F.L. El. 921.00

+73 23' Rt. No. 1 M.H.
El. Top 923.99
F.L. El. 918.50

+06 21' Lt. No 1 MH
El. Top 924.52
F.L. El. 919.34

+75 32' Rt. No 3-A C.B.
El. Gr. 923.53
F.L. El. 920.50

Exist 15" Rt

Exist 12" Lt @ 0.73%

P-9

Exist 12" Lt @ 0.77%

+12 36' Rt. No. 1-A M.H.
El. Top 922.9
F.L. El. 915.33

+68 San M.H. 52' Rt.
El. Top 921.71

P-11 F.L. 12" In 919.58

P-11 14 L.F. 12" Type "C" @ 2.00%

+20 32' Lt. No 3-A C.B.
El. Gr. 922.43
F.L. El. 920.00

+25 32' Rt. No 3-A C.B.
El. Gr. 922.39
F.L. El. 919.80
-0.8% ±

P-3

+20 21' Lt. 12" x 12" Tee
F.L. El. 917.71

P-5 F.L. 36" In 918.91

P-5 12 L.F. 36" Type "C" @ 1.40%

P-8 400 L.F. 42" Type "C" @ 0.77%

+75 36' Rt. Pre-Fab Tee Connection 42" x 12"
F.L. El. 916.38

P-10 88 L.F. 42" Type "C" @ 0.78%

Excavation	724	C.Y.
Embankment	450	C.Y.
Seeding	876	S.Y.

See Sheet No. 20 For Plan View

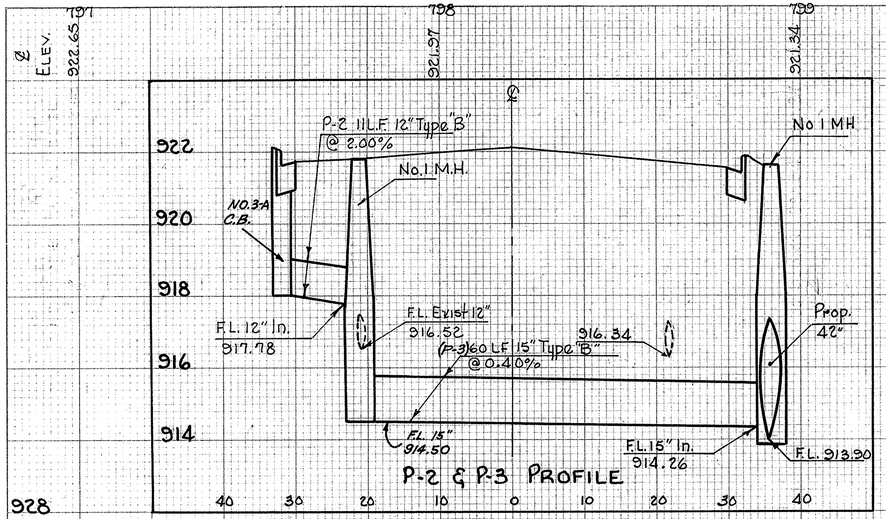
SCALES

PROFILE STA. 792+00 TO STA. 797+00

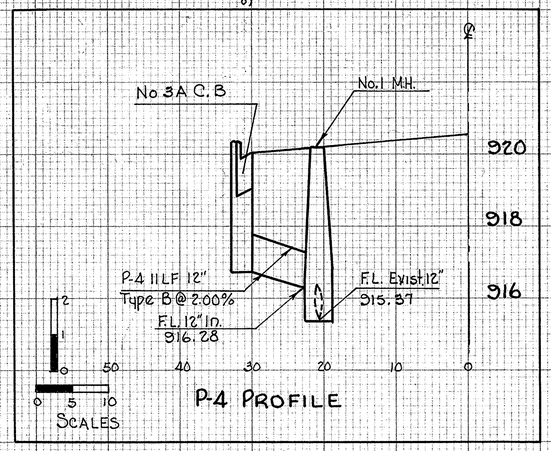
FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

52
216

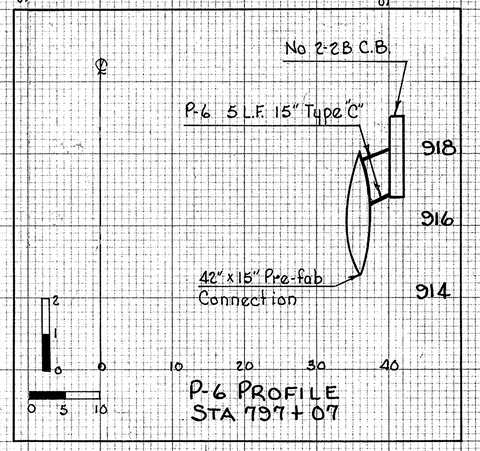
TRU-422-(14.70)-(16.38)



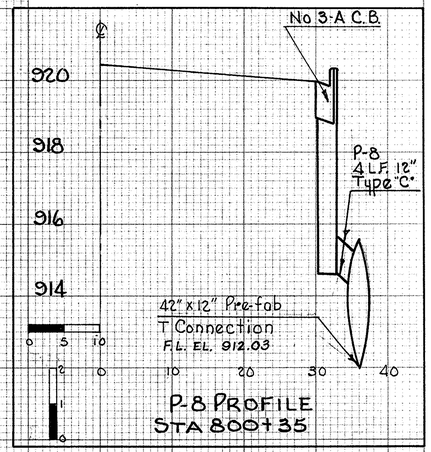
P-2 & P-3 PROFILE



P-4 PROFILE

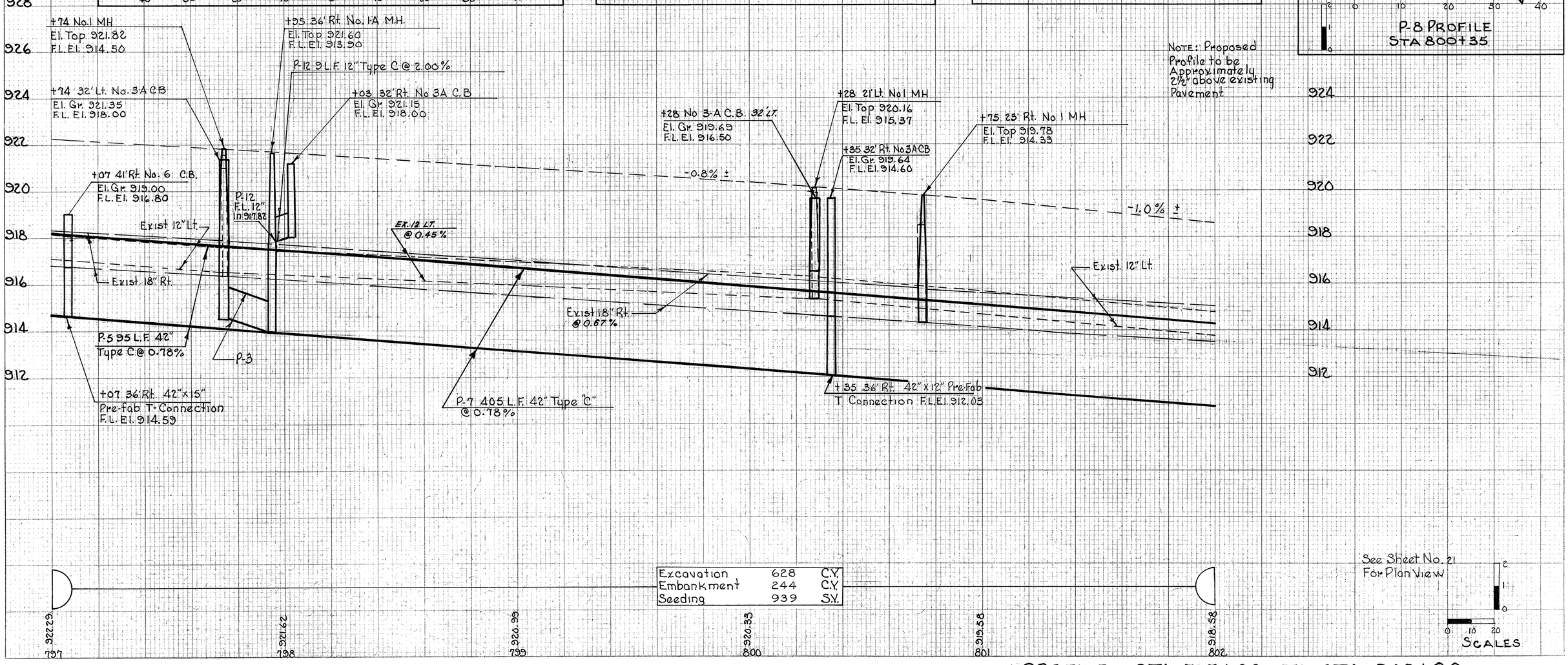


P-6 PROFILE
STA 797+07



P-8 PROFILE
STA 800+35

NOTE: Proposed Profile to be Approximately 2½" above existing Pavement



Excavation	628	C.Y.
Embankment	244	C.Y.
Seeding	939	S.Y.

See Sheet No. 21 For Plan View

2
1
0
0 10 20
SCALES

PROFILE STA. 797+00 TO STA 802+00

	E.A.	8-27-69	E.H.W. 12-8-69
	K.W.	9-5-69	
	K.W.	6-1-71	N.E.D. 5-71
	W.C.H.	5-71	N.E.D. 5-71
	W.C.H.	5-71	
DESIGNED			
QUANTITIES			

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

53
216

TRU-422-(14.70)-(16.38)

Note: Proposed Profile to be Approximately 2½" Above Existing Pavement.

+19 32' Rt No 3A CB
El. Gr. 912.26
F.L. El. 907.00

-1.0% ±

+63 20' Lt No 1 MH
El. Top 912.32
F.L. El. 906.78

+63 32' Lt
No 3A CB
El. Gr. 911.83
F.L. El. 908.80

+91 23' Rt No 1 MH
El. Top 912.00
F.L. El. 906.59

Exist 12" LH

Exist 18" Rt

P-5

P-3

Note: For P-2 & P-3 Cross Over Detail See Sheet No. 154

+34 32' Rt
No 3-A.C.B.
El. Gr. 910.89
F.L. El. 907.80

+00 36' Rt No 1-A M.H.
El. Top 910.9
F.L. El. 901.41

P-6 71 L.F. 12" Type "C" @ 2.00%

F.L. 12" P-6
In 907.66

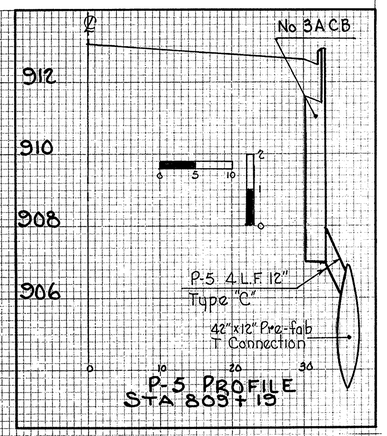
Exist. 12" LH

P-4 400 L.F. 42"
Type "C" @ 1.06%

+19 36' Rt 42" x 12" Pre-fab T-Connection F.L. El. 903.33

P-7 100 L.F. 42"
Type "C" @ 1.00%

Excavation	647	C.Y.
Embankment	266	C.Y.
Seeding	749	S.Y.



P-5 PROFILE
STA 803+19

See Sheet No. 23 For Plan View

SCALES

C.H.	2-2-69	
K.W.	3-8-69	
K.W.	6-2-71	
M.C.H.	5-71	NED
V.C.H.	5-71	NED
	11-28-69	EHW

P-5 7 L.F. 12" Type "C" @ 2.00%

+11 32' Rt No 3A CB
El. Gr. 918.30
F.L. El. 915.50

+17 36' Rt No 1-A M.H.
El. Top 918.8
F.L. El. 910.61

-0.7% ±

P-5 F.L. 12" In 915.36

+23 32' Lt No 3A CB
El. Gr. 914.65
F.L. El. 913.75

+23 21' Lt No 1 M.H.
El. Top 917.16
F.L. El. 911.85

+23 32' Lt No 3A CB
El. Gr. 916.65
F.L. El. 913.75

+65 32' Rt No. 3-A CB
El. Gr. 914.37
F.L. El. 911.00

STA. 804+23 LT. FOR P-2 PROFILE SEE SHT. NO. 154.

FOR P-7 PROFILE STA. 804+65 RT. SEE SHT. NO. 154.

Exist 18" Rt

Exist 12" LH

P-4 17 LF 42" Type "C" @ 0.78%

P-6 457 LF 42" Type "C" @ 0.52%

+65 36' Rt 42" x 12" Pre-fab T-Connection F.L. El. 908.33

Note: Proposed Profile to be Approximately 2½" Above Existing Pavement.

+66 21' Lt No 1 MH
El. Top 915.11
F.L. El. 910.40

+65 32' Rt No 3-A CB
El. Gr. 914.65
F.L. El. 911.65

+65 32' Lt No 3A CB
El. Gr. 914.65
F.L. El. 911.65

P-8 10 L.F. 12" Type "C" @ 1.00%

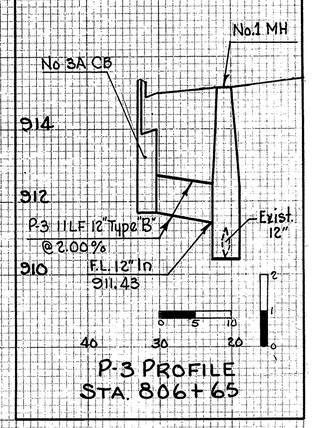
+74 36' Rt No 1-A M.H.
El. Top 915.0
F.L. El. 905.93

P-8 F.L. 12" In 911.55

P-6 F.L. 42" In 906.41

P-9 26 LF 42" Type C @ 1.06%

Excavation	795	C.Y.
Embankment	116	C.Y.
Seeding	789	S.Y.



P-3 PROFILE
STA. 806+65

See Sheet No. 22 For Plan View

SCALES

PROFILE STA. 802+00 TO STA. 812+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

54
216

TRU-422-(14.70)-(16.38)

	BY	DATE
SURVEYED	C.H.	9-2-65
PLOTTED	K.W	9-8-69
DRAWN	K.W	6-2-71
DESIGNED	W.C.H.	4-71
QUANTITIES	W.C.H.	4-71
CHECKED	E.H.W	11-26-69
	NED	5-71
	NED	5-71

+60 32.4' Lt. No.3A C.B.
El. Gr. 901.78
F.L. El. 898.80

+71 12' Lt. No. MH
El. Top 902.19
F.L. El. 896.88

Exist. 12" Lt.

P-2

FOR P-2 PROFILE
STA. 817+60 TO 817+71
SEE SHT. NO. 15-4.

+25 34.2' Lt. No.3A C.B.
El. Gr. 898.74
F.L. El. 895.75

+32 18' Lt. No.1 MH
El. Top 899.17
F.L. El. 892.99

+54 38.54' Rt. No.1-A MH
El. Top 899.8
F.L. El. 890.75

200' V.C.

FOR P-3 AND P-4 PROFILE
STA. 818+25 TO 819+54
SEE SHT. NO. 15-4.

P-3 12"

P-7 246 L.F. 42" Type "C" @ 1.76%

+10 36' Lt. No.3A C.B.
El. Gr. 895.90
F.L. El. 893.00

+54 Exist C.B. 17' Lt.
El. Top 895.17

Exist 15" Lt.

P-5 12"

+20 18' Lt. No.1 MH
El. Top 896.34
F.L. El. 890.43

FOR P-5 PROFILE
STA. 821+10 TO 821+20
SEE SHT. NO. 15-4.

Exist 12" Lt.

P-6 254 L.F. 42" Type "C" @ 1.59%

P-4 18"

Excavation	620	C.Y.
Embankment	159	C.Y.
Seeding	468	S.Y.

See Sheet No. 25
For Plan View

SCALES

+74 32' Lt. No.3 C.B.
El. Gr. 909.71
F.L. El. 906.80

+73 18' Lt. No.1 MH
El. Top 910.24
F.L. El. 905.39

Exist 12" Lt.

FOR P-2 PROFILE
STA. 812+74 LT.
SEE SHT. NO. 15-4.

Exist 12" Lt.

+10 32' Lt. No.3A C.B.
El. Gr. 906.22
F.L. El. 903.25

FOR P-3 PROFILE
STA. 815+10 TO 815+22 LT.
SEE SHT. NO. 15-4.

P-3

+22 12' Lt. No.1 M.H.
El. Top 906.64
F.L. El. 900.92

+95 36' Rt. No.1-A M.H.
El. Top 906.3
F.L. El. 896.46

-1.8% ±

Exist 12" Lt.

P-4 395 L.F. 42" Type "C" @ 1.00%

P-5 105 L.F. 42" Type "C" @ 1.59%

Excavation	637	C.Y.
Embankment	643	C.Y.
Seeding	1475	S.Y.

See Sheet No. 24
For Plan View

SCALES

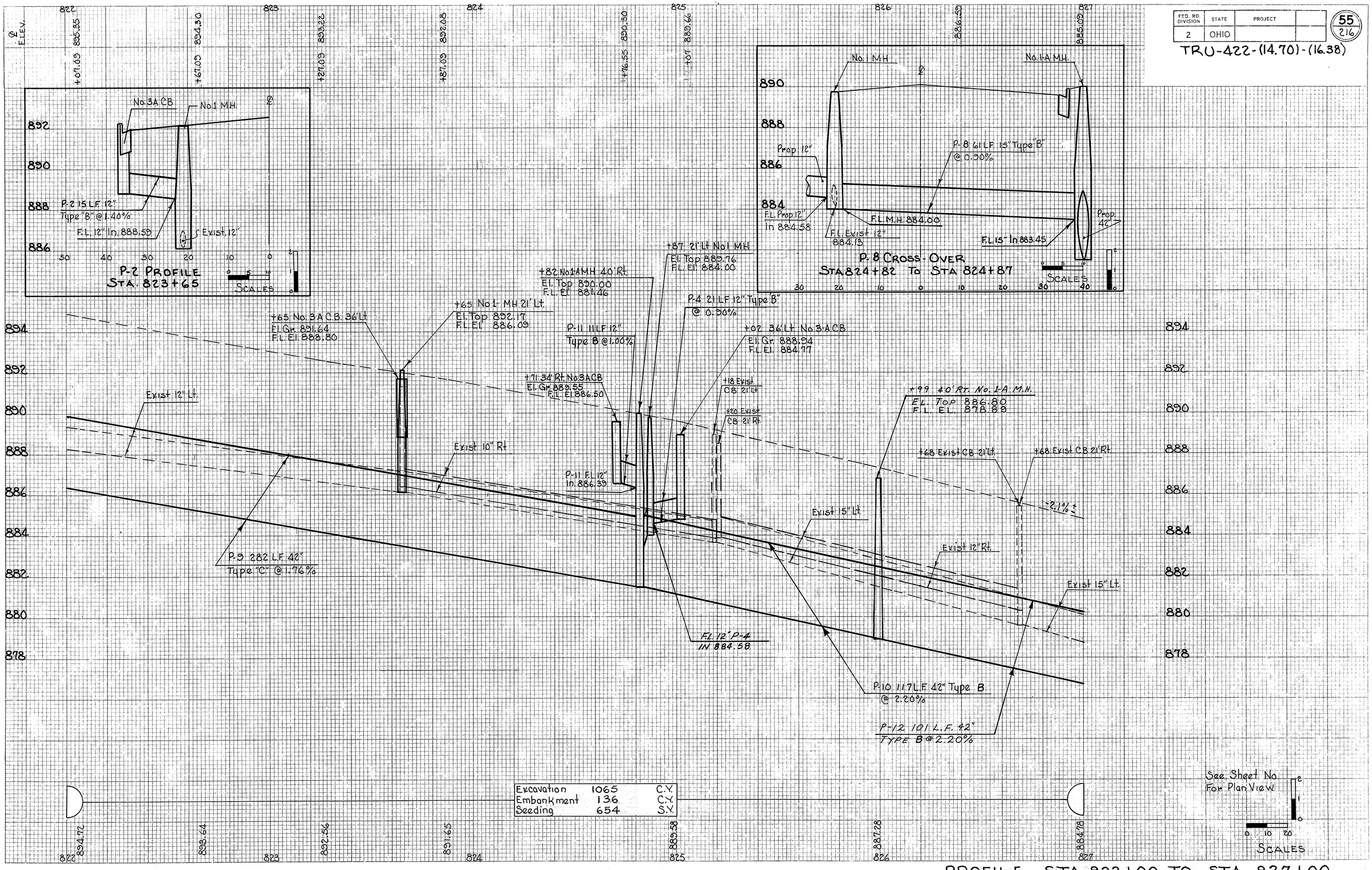
PROFILE STA. 812+00 TO STA. 822+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

55
216

TRU-422-(14.70)-(16.38)

	BY	DATE	CHECKED BY	DATE
SURVEYED	C.H.	9-2-69	E.H.W.	11-28-69
PLOTTED	K.W.	9-8-69		
INKED	K.W.	6-3-71		
DESIGNED	W.C.H.	4-71	NED	5-71
QUANTITIES	W.C.H.	4-71	NED	5-71



Excavation	1065	C.Y.
Embankment	136	C.Y.
Seeding	654	S.Y.

PROFILE STA. 822+00 TO STA. 827+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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TRU-422-(14.70)-(16.38)

827 828 829 830 831 832

886 884 882 880 878 876 874 872 870 868 866 864 862 860

+88 48' Lt. No. 3A C.B.
El. Gr. 881.71
F.L. El. 878.80

P-2

+88 21.5± Lt. 15"x12" Tee
F.L. El. 876.02

Exist 15" Lt.

P-5 280 L.F. 42" Type B
@ 2.20%

+20 22' Lt. No. 1 MH
El. Top 879.00
F.L. El. 872.20

+80 40' Rt. No. 1 MH
El. Top 876.0
F.L. El. 870.50

P-3 87 L.F. 15"
Type "B" @ 1.20%

F.L. 15" In. 871.16

400' V.C.

-2.6%

P-8 110 L.F. 12" Type C @ 1.00%

+20 36' Rt. No. 3 C.B.
El. Gr. 874.18
F.L. El. 871.50

P-8 F.L. 12"" In
871.40

+20 40' Rt. No. 1-A MH.
El. Top 874.5
F.L. El. 867.22

+42 40.13' Lt. No. 3A C.B.
El. Gr. 873.78
F.L. El. 871.00

+68 21' Lt. No. 1 MH.
El. Top 873.99
F.L. El. 863.99

+68 Exist C.B. 21' Lt.
El. Top 872.46

P-4 32 L.F.
12" Type "B"
@ 1.00%

F.L. 12" In. 870.6

Exist 48" Rt.

P-6 149 L.F. 42" Type "C"
@ 2.20%

P-7 71 L.F. 48" Type B
@ 0.80%

Exist 18" Lt.

Exist 18" Conc. Lt.

F.L. 863.99

No. 3A C.B.

P-2 25 L.F. 12" Type "B"
@ 111.12%

15"x12"
Tee

50 40 30 20 10 0

P-2 PROFILE
STA 827 + 88

SCALES 0 5 10 — 0 1 2

Excavation	646	C.Y.
Embankment	924	C.Y.
Seeding	1369	S.Y.

See Sheet No. 27
For Plan View

SCALES 0 10 20 — 0 1 2

864.77 882.81 879.54 876.93 874.81 873.35

827 828 829 830 831 832

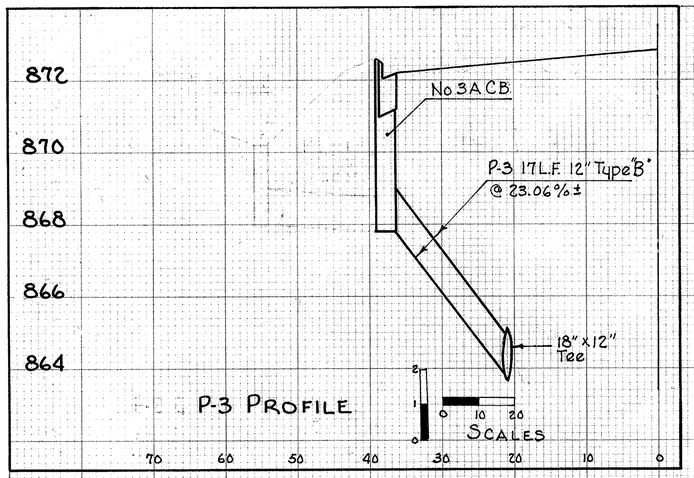
PROFILE STA. 827+00 TO STA. 832+00

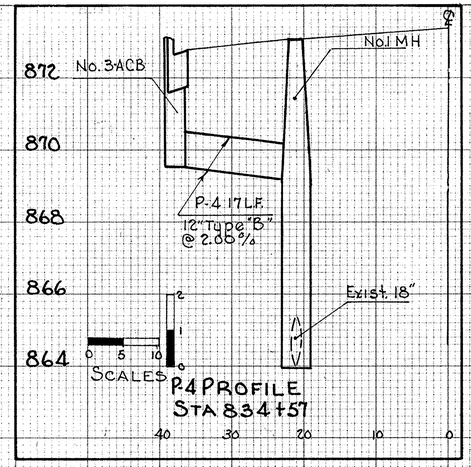
	BY	DATE	CHECKED BY	DATE
SURVEYED	C.H.	2-2-62	E.N.W.	11-28-62
PLOTTED	K.W.	3-8-62		
INKED	K.W.	6-5-71	NED	5-71
DESIGNED	W.C.H.	4-71	NED	5-71
QUANTITIES	W.C.H.	4-71		

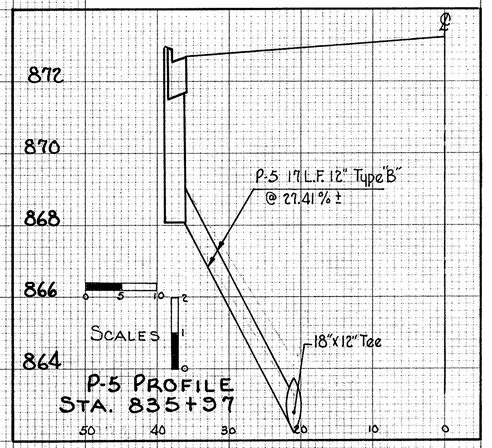
FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

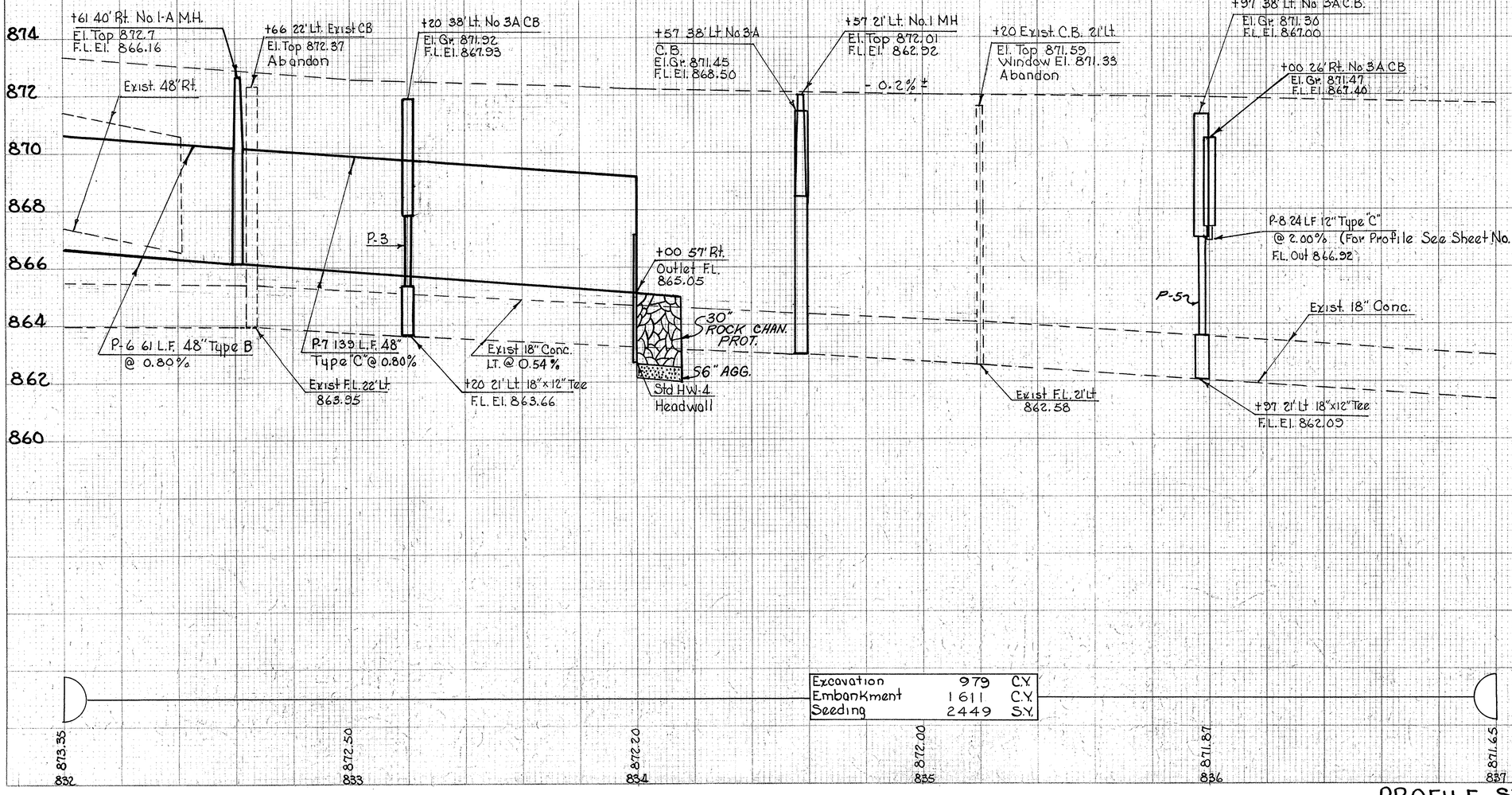
57
216

TRU-422-(14.70)-(16.38)









Excavation	979	C.Y.
Embankment	1611	C.Y.
Seeding	2449	S.Y.

See Sheet No. 28
For Plan View

SCALES
0 10 20
0 1 2

PROFILE STA. 832+00 TO STA. 837+00

C.H.	2.369	E.H.W.	1128-69
K.W.	9.8-69		
K.W.	6-3-71	NED	5-71
W.C.H.	4-71	NED	5-71
W.C.H.	4-71		

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

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TRU-422-(14.70)-(16.38)

C.H	9-3-65		
K.W	9-8-65		
WCH	6-4-71	NED	5-71
WCH	4-71	NED	5-71
		ENG	11-28-72

FACE GUTTER RT. 871.53 | 871.33 | 871.09 | 870.99 | 870.70 | 870.40 | 870.31 | 869.86

℄ CONSTR. 872.02 | 871.84 | 871.56 | 871.46 | 871.17 | 870.87 | 870.78 | 870.31

FACE GUTTER LT. 871.56 | 871.09 | 871.03 | 870.99 | 870.70 | 870.40 | 870.31 | 869.82

+12.21' Lt. No 1 MH
El. Top 871.72
F.L. El. 861.35

+12.38' Lt. No.3A CB
El. Gr. 817.16
F.L. El. 868.00

+20.26' Lt. No.3A CB
El. Gr. 870.69
F.L. El. 864.24

+40.41' Lt. No 1 MH
El. Top 871.00
F.L. El. 860.20

P-4 10 LF 12"
Type "C" @1.00%

+50.38' Lt.
No.3A C.B.
El. Gr. 870.58
F.L. El. 868.00

+69 Exist C.B. 21' Lt.
El. Top 871.21
Window Elev. 870.83

P-4
F.L. In
867.90

P-5 23 LF 12" Type "C"
@ 5.83%
P-5 Outlet F.L. 862.90

Exist 18"
Conc. Lt.

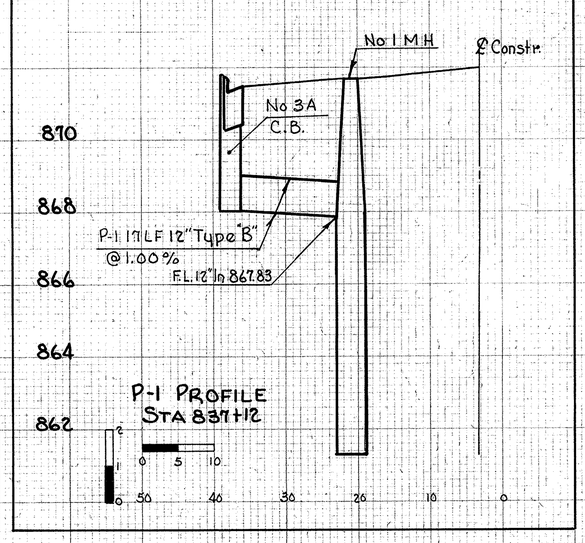
Exist 18" Conc. Lt.

F.L. 860.99

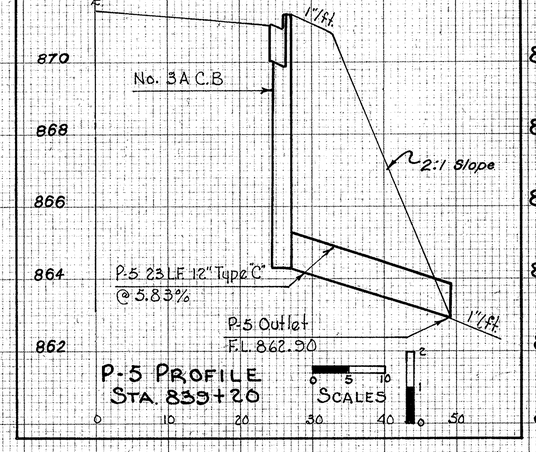
+54.71' Lt. P-3 Outlet
F.L. El. 860.07

P-3 32 LF 18" Type "C"
@ 0.40%

872 870 868 866 864 862 860 858 856 854 852 850 848 846 844



P-1 PROFILE
STA 837+12



P-5 PROFILE
STA 839+20

Excavation	854	C.Y.
Embankment	1101	C.Y.
Seeding	2026	S.Y.

See Sheet No. 29
For Plan View

SCALES
0 15 30
2
1
0

837 838 839 840 841 842

871.64 | 871.51 | 871.26 | 870.83 | 870.40 | 870.02

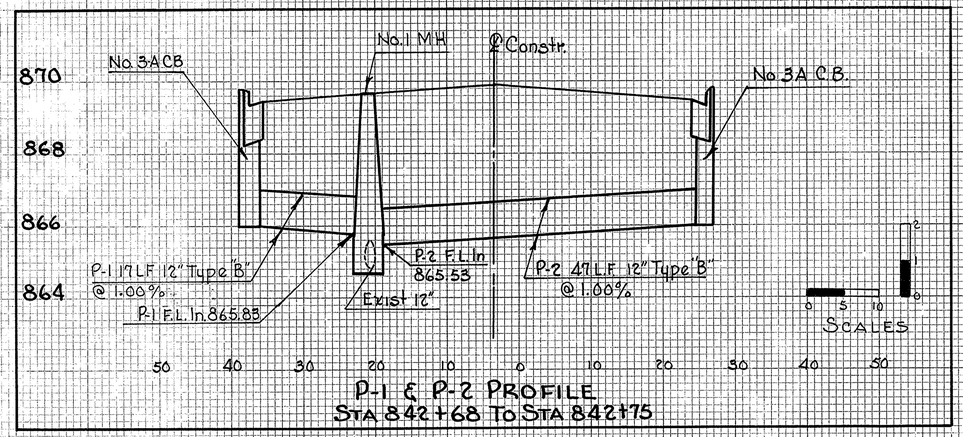
PROFILE STA. 837+00 TO STA. 842+00

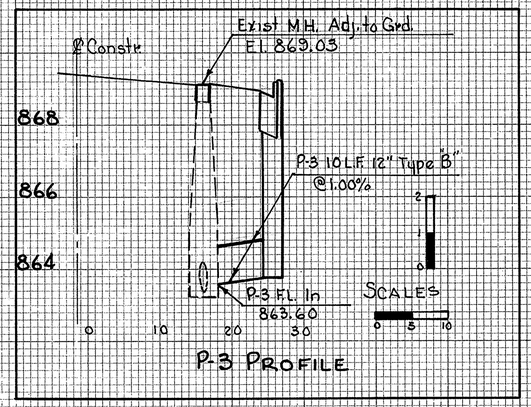
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

59
216

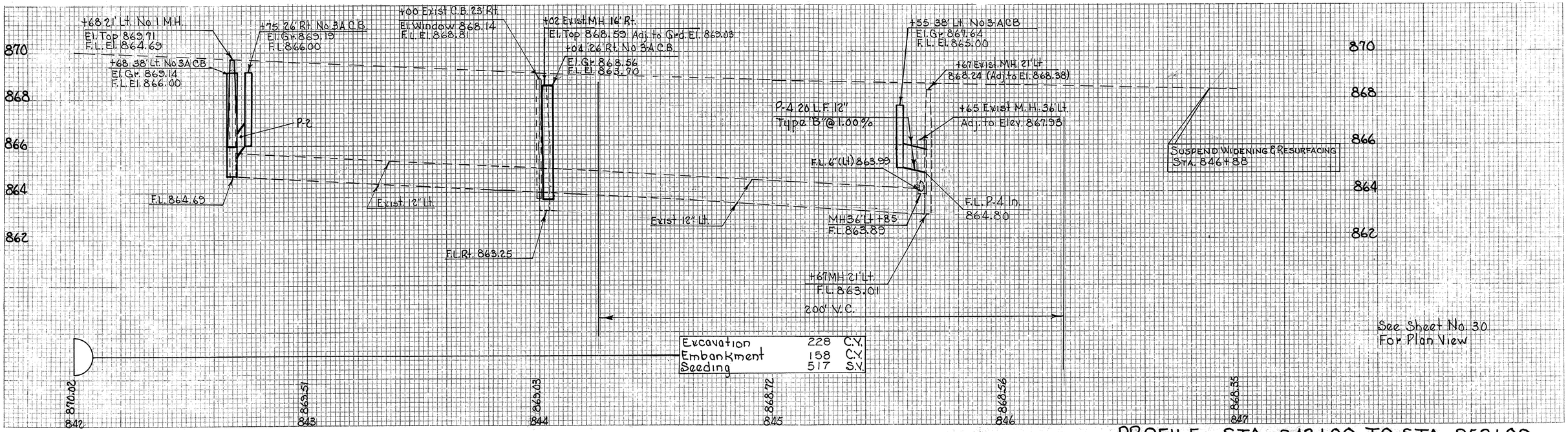
TRU-422-(14.70)-(16.38)

WW	10/28/69		
KW	11/19/69	E.H.W.	11-28-69
WCH	4-71		
KWH	4-71	NED	5-71
WCH	4-71	NED	5-71





See Sheet No. 31 For Plan View

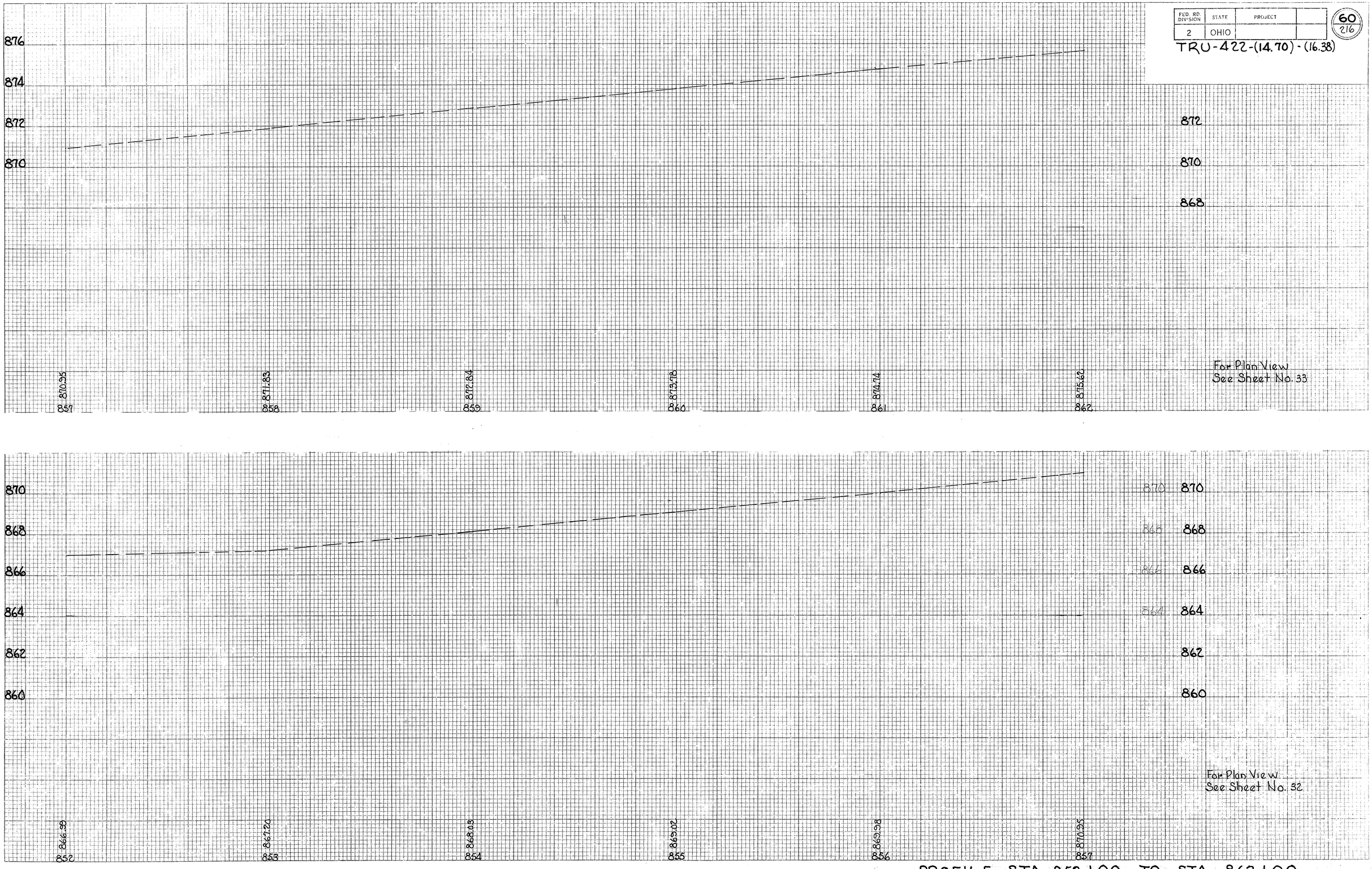


FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

60
216

TRU-422-(14.70)-(16.38)

LINE SHEET			
	BY	DATE	CHECKED BY	DATE
SURVEYED	C.H.	9-3-69	E.H.W.	11-28-69
PLOTTED	K.W.	9-5-69		
INKED				
DESIGNED				
QUANTITIES				



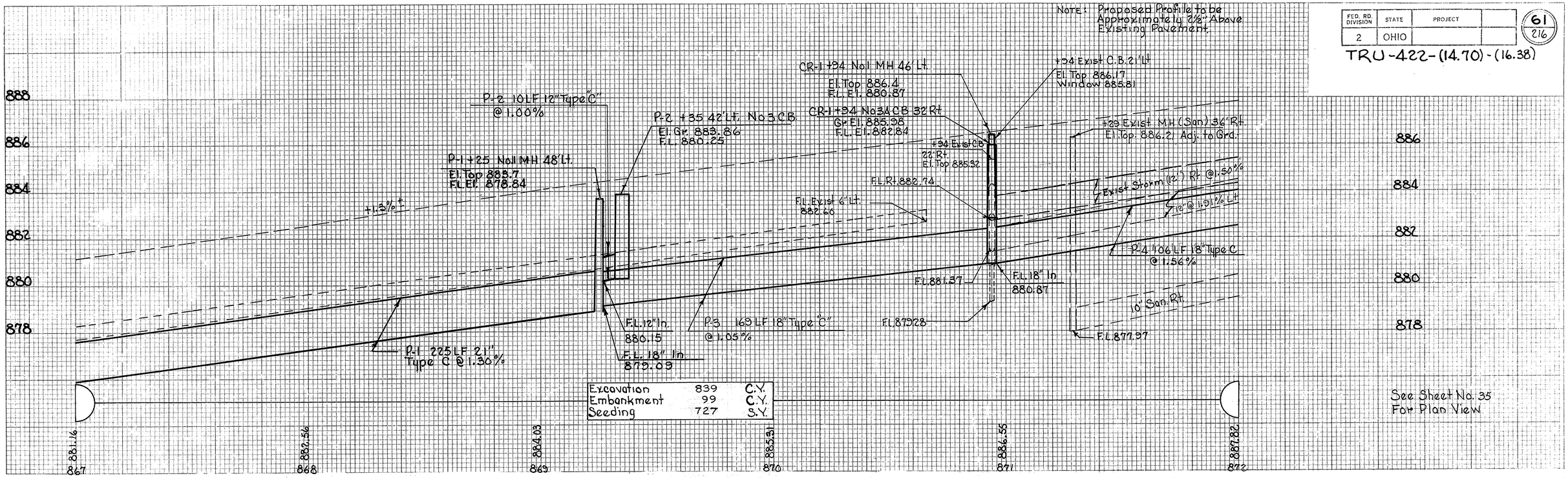
PROFILE STA. 852+00 TO STA. 862+00

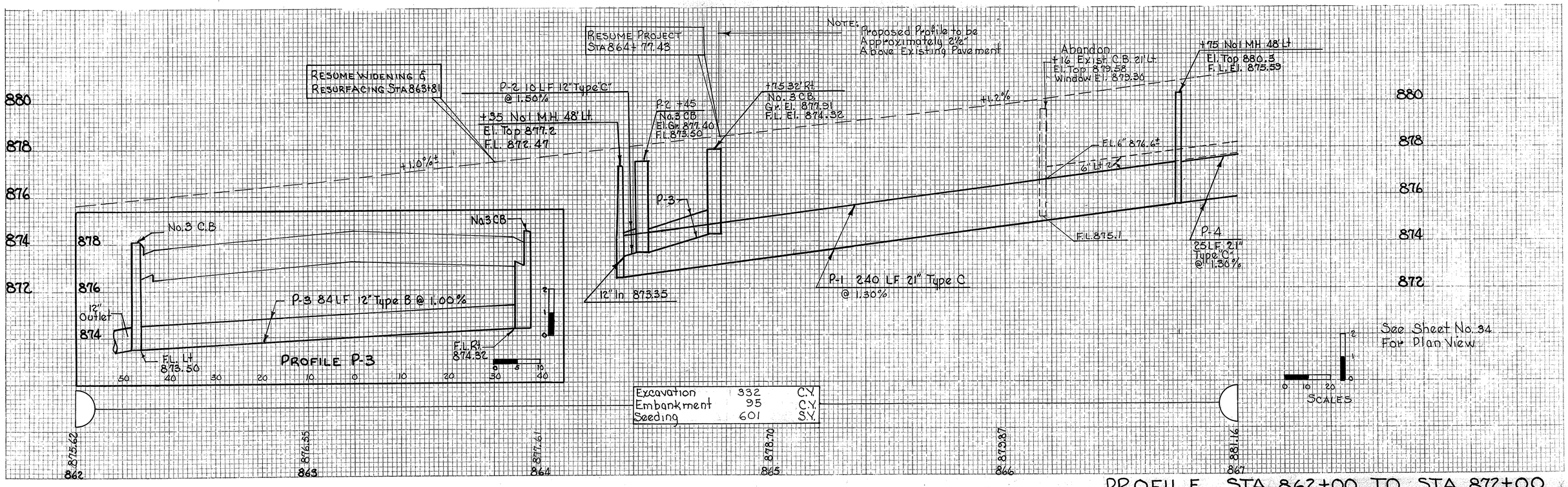
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

61 / 216

TRU-422-(14.70)-(16.38)

		DATE
SURVEYED	C.H.	9-3-65
PLOTTED	K.W.	9-8-65
TYPED	K.W.	5-71
DESIGNED	W.C.H.	4-71
QUANTITIES	W.C.H.	4-71
BY	CHECKED	DATE
E.H.W.		11-28-69
N.E.D.		4-71
N.E.D.		4-71





PROFILE STA. 862+00 TO STA. 872+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

62
216

TRU-422-(14.70)-(16.38)

LINE SHEET	BY	DATE	CHECKED BY	DATE
SURVEYED	C.H.	9-4-69	EHW	11-28-69
PLOTTED	K.W.	2-2-69		
INKED	KW	4-7-71	NED	4-71
DESIGNED	WCH	4-71	NED	4-71
QUANTITIES	WCH	4-71		

NOTE:
Proposed Profile to be
Approximately 2½" Above
Existing Pavement

+60 No.1 MH 35' Rt
El. Top 892.10
F.L. 887.78

P-1 +60 No.1 MH 46' Lt
El. Top 891.4
F.L. El. 886.58

+67 Exist C.B. 21' Lt. Abandon
El. Top 892.05
Window 891.74

+67 Exist C.B. 22' Rt. Abandon
El. Top 891.49

+85 32' Rt No.3A C.B
El. Gr. 892.07
F.L. El. 888.53

+18%±

P-4 239 L.F. 15" Type C
@ 2.00%

Exist 12" Rt @ 1.84%

6" LH

P-3 25 L.F. 12" Type C @ 4.00%

F.L. Rt. 888.32

F.L. Lt. 888.51

F.L. P-3 In 888.28

Exist 10" San @ 2.03% (Rt)

200' V.C.

1.5%±

Exist 12" Rt @ 1.50%

P-1 260 L.F. 18" Type C
@ 1.56%

Exist 12" Lt @ 1.51%

F.L. 15" In.
888.03

No. 1 M.H.

No. 1 M.H.

P-2 81 L.F. 18" Type "B" @ 1.50%

F.L. Rt.
887.78

F.L. Lt. 886.58

P-2 PROFILE
874+60

Excavation	887	C.Y.
Embankment	184	C.Y.
Seeding	780	S.Y.

See Sheet No. 36
For Plan View

887.82 | 889.28 | 891.04 | 892.82 | 894.65 | 895.07 | 895.94 | 896.70

872 | 873 | 874 | 875 | 876 | 877

PROFILE STA. 872+00 TO STA. 877+00

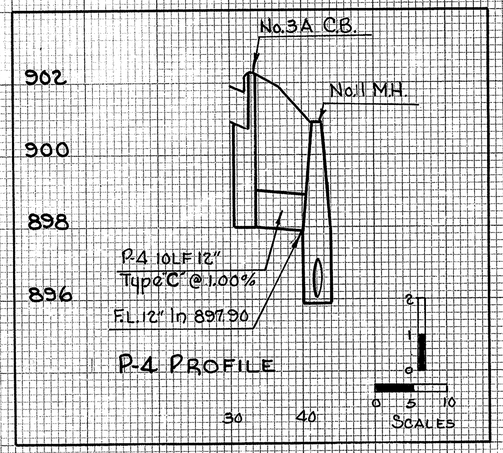
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

63
216

TRU-422-(14.70)(16.38)

CROSS SECTION SHEET

	BY	DATE	CHECKED BY	DATE
SURVEYED	W.W.W.	10-28-69	E.H.W.	11-28-69
PLOTTED	K.W.	11-18-69		
I.B.M. DATE		4-71		5-71
INKED	K.W.	5-71	N.E.D.	5-71
DESIGNED	W.C.H.	5-71	N.E.D.	5-71
QUANTITIES	W.C.H.	5-71		



P-4 +75 No 3A C.B. 32' Rt.
El. Gr. 901.55
F.L. El. 898.00

P-4 +75 No 1 M.H. 42' Rt.
El. Top 900.3
F.L. El. 895.92

P-2 +05 No 1 M.H. 37' Rt.
El. Top 897.10
F.L. El. 892.91

+66 Exist C.B. 22' Rt.
Elev. Top 899.90
Abandon

P-2 8 LF 12" Type C @ 1.00%

P-2 +10 No 3A C.B. 32' Rt.
El. Gr. 897.02
F.L. El. 894.50

P-3 167 LF 15" Type C @ 1.80%

P-2 F.L. 12" In 894.42

Exist 12" (Rt.) @ 1.84%

F.L. Exist 12" (Rt.) 895.75

P-1 5 LF 15" Type C @ 2.00%

200' V.C.

+46 San. M.H. 58' Rt.
El. Top 906.94

+71 Exist. C.B. 22' Rt.
Elev. Top 908.57
Abandon

P-6 +98 No. 6 C.B. 32' Rt.
El. Gr. 910.38
F.L. El. 908.00

P-6 +98 No. 1 M.H. 42' Rt.
El. Top 909.86
F.L. El. 905.21

Exist 6" (Rt.)

Exist 12" (Rt.)

F.L. 905.24

F.L. 905.21

P-5 315 LF 15" Type C @ 2.95%

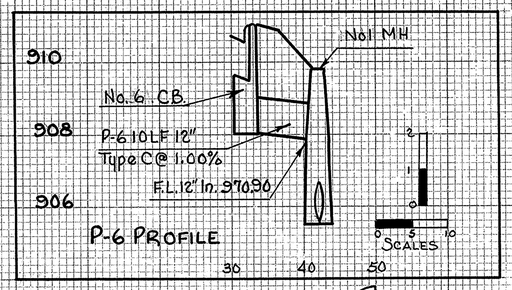
Exist 12" (Rt.) @ 3.11%

10" San Rt.

F.L. 896.56 (Rt.)

10" San (Rt.) @ 2.03%

300' V.C.



See Sheet No. 37 For Plan View

Excavation	374	C.Y.
Embankment	382	C.Y.
Seeding	700	S.Y.

877+00 | 878+00 | 879+00 | 880+00 | 881+00 | 882+00

899.71 | 902.22 | 905.30 | 906.20 | 908.03 | 910.42

PROFILE STA 877+00 TO STA. 882+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

64/216

TRU-422 - (14.70) - (16.38)

LINE SHEET

	BY	DATE
CHECKED	C.H.	9-4-69
	K.W.	9-8-69
	K.W.	5-24-71
	W.C.H.	5-71
	W.C.H.	5-71

SURVEYED
PLOTTED
INKED
DESIGNED
QUANTITIES

	E.H.W.	12-8-69
	NED	5-71
	NED	5-71

882 883 884 885 886 887

920 918 916 914 912 910 908 906 904 902 900

Note: Proposed Profile to be Approximately 2½" Above Existing Pavement

* For Profile And Quantities See Sheet No.

P-2 +20 No. MH 24' Lt.
El. Top 917.11
F.L. El. 909.08

P-4 32 L.F. 12" Type "B" @ 1.00%

P-4 +90 No. 6 C.B. 32' Lt.
El. Gr. 916.53
F.L. El. 913.82

+79 Exist. M.H. 27' Lt.
El. Top 913.67

P-1 +05 No. 3A C.B. 32' Rt.
El. Gr. 912.25
F.L. 908.67

Exist. San M.H. 36' Rt.
El. Top 914.76

+2.5 %

P-2 +25 No. 2-B C.B. 41' Lt.
Gr. El. 912.25
F.L. 909.96

F.L. 911.50

300' V.C.

P-2 81 L.F. 15" Type B @ 1.60%

P-1 107 L.F. 15" Type "C" @ 3.00%

F.L. 901.92

10" San. (Rt.)

F.L. 24" 910.38

F.L. Rt. 910.36

* P-1 +12 Exist. M.H. 24' Rt.
Adjust to Grade
El. Top 917.18
F.L. El. 907.75 (Exist.)

P-6 11 L.F. 12" Type B @ 2.00%

P-5 +90 No. 2A-12 Inlet 32' Lt.
Window El. 918.01
F.L. El. 914.00

P-4 F.L. 12" In. 913.50

P-7 82 L.F. 12" Type B @ 2.00%

P-7 F.L. 12" In. 912.50

P-6 F.L. 12" In 913.78

P-5 +00 No. 1 M.H. 24' Lt.
El. Top 918.63
F.L. El. 911.09

R-6 +03 No. 3 A C.B. 30.49' Rt.
El. Gr. 918.29
F.L. El. 914.14

P-8 100 L.F. 24" Type "B" @ 2.20%

F.L. 24" (P-8) In 911.34

P-5 80 L.F. 27" Type B @ 2.20%

P-5 F.L. 27" In 909.33

* 48 L.F. 27" Type B @ 2.77%

Exist. 8" VSP San (Lt.) @ 3.02%

F.L. 8" San (Lt.) 906.83

10" (Lt.) No Grade

F.L. 906.23 (Lt.)

F.L. 904.15

P-2 +25 No. 2-B C.B. 41' Lt.
El. Gr. 912.25
F.L. 909.96

P-1 +05 No. 3A C.B. 32' Rt.
El. Gr. 912.75
F.L. 908.67

P-2 81 L.F. 15" Type "B" @ 1.60%

5 0 0 10 SCALES

P-2 PROFILE

50 40 30 20 10 0 10 20 30

915 910 905

See Sheet No. 38 For Plan View

Excavation	684	C.Y.
Embankment	436	C.Y.
Seeding	2231	S.Y.

910.42 912.00 912.87 913.66 914.54 915.21 916.55 918.56 920.72

882 883 884 885 886 887

PROFILE STA. 882+00 TO STA 887+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

65
216

TRU-422-14.70)-(16.38)

NOTE:
Proposed Profile to be Approximately 2½" Above Existing Pavement

+15 No 1 M.H. 27' Lt.
Top El. 928.11
F.L. 918.87

P-4 12 LF 12" Type "B" @ 2.00%

+25 No 3 C.B. 34' Lt.
El. Gr. 928.04
F.L. 925.00

+54 No 1 M.H. 22' Lt.
El. Top 926.36
F.L. El. 920.10

+54 No 1 MH 22 Rt.
El. Top 926.36
F.L. El. 918.65

+00 34' Rt. No. 3-A C.B.
El. Gr. 927.19
F.L. El. 924.41

+54 Exist C.B. 22' Rt.
El. Top 925.17

+54 Exist C.B. 21' Lt.
El. Top 926.17
Fl. Win 925.77

+44 Exist C.B. 49' Lt.
El. Top 926.79
F.L. El. 921.02

+115 No 1 MH 26' Lt.
El. Top 923.01
F.L. El. 916.07

+25 No 2A-12 Inlet 33.28' Lt.
El. Win. 922.82
F.L. El. 918.80

+3.9%

30" Lt.

8" San @ 3.10% Lt.

P-5 63 L.F. 12" Type "B" @ 0.40%

P-4 F.L. 12" In 924.76

P-5 F.L. 12" In 924.16

15" @ 2.28% Rt.

P-6 185 L.F. 18" Type "B" @ 3.44%

+2.20%±

P-2 12 LF 12" Type C @ 2.00%

P-3 200 L.F. 24" Type B @ 1.40%

P-2 F.L. 12" In 918.54

8" San. Lt. @ 3.02%

F.L. Rt. 918.69 36" LGR

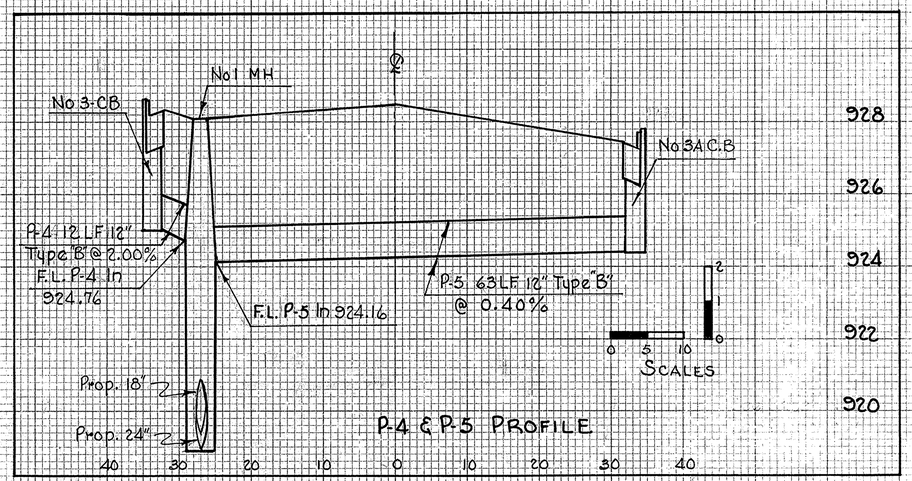
F.L. 15" 919.94

F.L. 18" P-6 In 919.37

P-1 115 L.F. 24" Type "B" @ 2.20%

200' W.C.

Excavation	665	C.Y.
Embankment	242	C.Y.
Seeding	566	S.Y.



P-4 & P-5 PROFILE

See Sheet No. 89 For Plan View

PROFILE STA 887+00 TO STA. 892+00

CROSS SECTION SHEET

BY	DATE	USED ON
W.W.	10-28-69	E.H.W. 12-8-69
K.W.	11-21-69	
K.W.	5-24-71	NED 5-71
W.C.H.	3-71	NED 5-71
W.C.H.	3-71	

INKED
DESIGNED
QUANTITIES

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

66 / 216

TRU-422-(14.70)-(16.38)

NOTE: Proposed Profile to be Approximately 2½" Above Existing Pavement

EA & ET 8/26/69
K.W. 9/5/69
K.W.C. 5-27-71 E.H.W 12-8-69
W.C.H. 3-71 NED 5-71
NED 5-71

892 893 894 895 896 897

954 952 950 948 946 944 942 940 938 936 934 932 930

450' V.C.

+65 No.1 MH. 23' Rt.
El. Top 952.98
F.L. El. 948.26
+65 Exist C.B. 23' Rt.
El. Top 952.34

+63 Exist C.B. 21' Lt.
El. Top 952.81

+30 No.1 MH. 24' Lt.
El. Top 948.10
F.L. El. 942.78

+39 San. M.H. 30' Lt.
Elev. Top 948.19

+82 26.18' Rt. No.3A C.B.
El. Gr. 943.71
F.L. 946.00

+99 Exist C.B. 30' Lt.
Elev. Top 946.87
Window 946.42

+25 44.91' Lt.
No.3A C.B.
El. Gr. 947.28
F.L. El. 943.72

STA 894+87.92 U.S. 422 =
STA 296+28.13 S.R. 46

+32 26' Rt. No.1 M.H.
Top El. 940.32
F.L. El. 935.78

+07 Exist C.B. 30' Rt.
Elev. Top 942.33

P-4 72 LF 12"
Type B @ 3.00%

P-3

F.L. 941.79 (Lt.)

Exist 18" Storm (Lt.) @ 3.71%

P-5 170 LF 18"
Type B @ 3.60%

F.L. P-4 In 943.84

F.L. P-5 In 942.78

F.L. P-3 In 943.50

8" San. (Lt.) @ 3.29%

F.L. (Lt.) 940.00

F.L. 945.30

Exist 15" (Rt.) @ 2.84%

F.L. 943.26 (Rt.)

F.L. (Rt.) 942.8

+66 No.1 MH 22' Lt.
El. Top 937.83
F.L. El. 929.76

+66 No.1 MH 20' Rt.
Top El. 937.86
F.L. El. 927.06

+31.5 Exist C.B. 26' Rt.
Elev. Top 940.25

P-2 270 LF 18"
Type B @ 3.60%

Exist F.L. (Rt.) 930.43

+66 Exist C.B. 22' Lt.
Elev. Top 937.36

+60 No.1 MH 27' Lt.
El. Top 937.52
F.L. El. 927.80

+111 San. M.H.
El. Top 936.20

P-1 60 LF 18"
Type B @ 3.44%

Exist 30" Lt.

F.L. 18" P-2 In 933.06

10"

24" to East

F.L. Exist 10" Rt. 935.78

16" RCP

Exist 15" (Rt.) @ 5.31%

8" San.

F.L. 929.76 (Lt.)

F.L. 927.06 (Rt.)

8" San.

Exist 15" Storm @ 2.28%

No.1 M.H.

No.3A C.B.

P-3 22 LF 12"
Type B @ 1.00%

F.L. P-4 In 943.84

F.L. P-3 In 943.50

Prop. 18"

P-3 PROFILE
STA. 895+25 TO STA. 895+30

2 0 5 10 40 30 20 10 0

Excavation	720	C.Y.
Embankment	93	C.Y.
Seeding	305	S.Y.

935.43 936.39 936.74 939.27 941.39 943.17 948.45 948.02 949.96 950.87 951.43 952.62 953.47 953.82 954.26

892 893 894 895 896 897

See Sheet No. 40 For Plan View

0 10 20 40 60 SCALES 2' 1' 0

PROFILE STA. 892+00 TO STA 897+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

67
216

TRU-422-(14.70)-(16.38)

NOTE:
Proposed Profile to be Approximately 2½" Above Existing Pavement

897 898 899 900 901 902

970 968 966 964 962 960 958 956 954 952 950 948 946 944

P-2 21 L.F. 12" Type "B" @ 2.00%

P-2+50 No 3 CB 42.72' Lt.
El. Gr. 955.16
F.L. El. 951.26

P-2+40 No 1 MH 24' Lt.
El. Top 955.43
F.L. El. 950.34

P-3 345 L.F. 15" Type "B" @ 2.40%

P-1 40 L.F. 18" Type "B" @ 3.60%

15" Rt @ 2.84%

P-2 F.L. In 950.84

P-3 F.L. 15" 950.59

F.L. 15" (Rt.) 956.51

8" San. (Lt.) @ 3.29%

P-8 +56 No 1 MH 23' Rt.
El. Top 961.32
F.L. 956.51

+50 Exist. C.B. 45' Rt.
Elev. Top 960.43

+56 Exist. C.B. 23' Rt.
Elev. Top 961.0

F.L. 10" (Rt.) 958.23

P-4 16 L.F. 12" Type "B" @ 1.50%

P-3+85 No 1 MH 24' Lt.
El. Top 964.09
F.L. El. 958.87

P-6+85 No 3A C.B. 32' Rt.
El. Gr. 963.66
F.L. El. 961.00

+2.3%

Exist. 15" @ 2.36% (Rt.)

F.L. P-4 In. 959.76

F.L. 12" In. 959.12

P-4 +35 No 3 C.B 36.55' Lt.
El. Gr. 963.80
F.L. El. 960.00

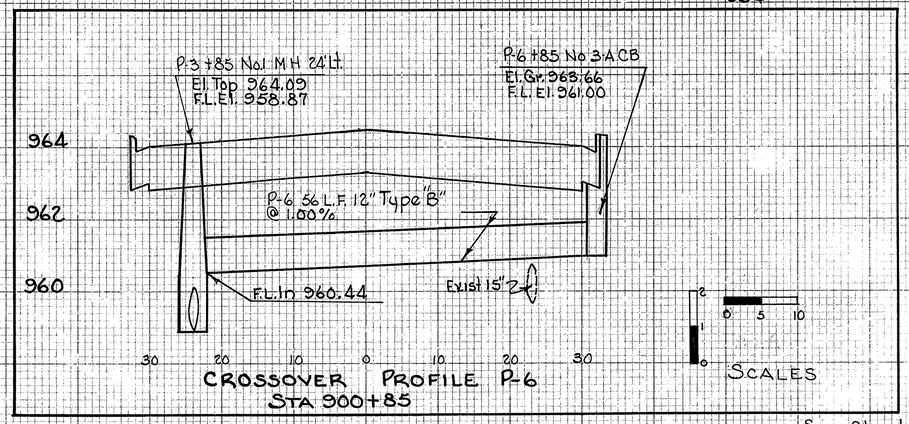
+69 Exist. San. M.H. 31' Lt.
Elev. Top 966.29

P-5 115 L.F. 12" Type "B" @ 2.97%

8" @ 2.11%

F.L. (Lt.) 960.74

Excavation	1264	C.Y.
Embankment	44	C.Y.
Seeding	495	S.Y.



CROSSOVER PROFILE P-6
STA 900+85

See Sheet No. 41 For Plan View

354.26 355.08 355.85 356.59 357.33 357.71 358.82 360.08 360.44 361.38 362.24 364.47 366.75

897 898 899 900 901 902

PROFILE STA. 897+00 TO STA. 902+00

9-9-69 NED 4-71
5-27-71 NED 4-71
3-71 KW
8-71 WCH
WCH

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

68
216

TRU-422-(14.70)-(16.38)

C.H.	9.5.69	
K.W.	9.9.69	E.H.W. 11-28-69
K.W.	3.24.71	
W.C.H.	3.71	NED 5-71
W.C.H.	3.71	NED 5-71

NOTE:
Proposed Profile to be Approximately 2½" Above Existing Pavement

C- +19 23' Rt No 1 M.H.
Top El. 979.04
F.L. El. 973.97

+19 23' Rt.
Elev. 977.72

+46.5 21' Lt.
El. Top 980.49
F.L. 975.10

P-3 +55 No 1 M.H. 24' Lt.
El. Top 980.57
F.L. 974.47

P-4 +60 No 3A CB 32' Rt.
El. Gr. 980.17
F.L. 977.15

+25 Exist CB 21' Lt.
El. Top 978.30

+3.8% ±

+76 El. Top 980.50
El. 979.10

P-3 45 LF 24" Type B @ 2.60% (Lt)

P-2 +17 No 3 C.B. 32' Lt.
El. Gr. 978.68
F.L. El. 976.43

P-4 42 LF 12" Type B (Rt) @ 4.00%

+05

C- 30" Ext.

30" Rt.

2" Rt.

8" Lt.

F.L. 24" In @ 975.11

F.L. 15" In 976.10

P-2 38 LF 15" Type B @ 0.70% (Lt)

F.L. 15" In. 975.47

Prop F.L. 973.81

F.L. Exist 30" 23' Rt 973.97

F.L. 6" 971.80

F.L. 972.08 8" (Lt)

F.L. 8" 971.57

8" San @ 2.29%

F.L. 967.85

P-1 +50 No 3 CB 32' Lt
Gr. El. 965.86
F.L. El. 967.00

+31 San. M.H. 32' Lt
El. Top 973.33

+71 Exist CB 28' Lt.
Elev. Top 970.46

+16 Exist CB 21' Lt
El. Top 969.34

+13 Exist CB 23' Rt
Elev. Top 968.42

+2.3% ±

F.L. 10" 968.31

F.L. 6" 967.06

P-1 150 L.F 12" Type B" @ 2.97 %

8" San Lt @ 2.71%

8" Lt.

Exist 15" Rt @ 2.36%

F.L. 965.02 (Lt)

F.L. 964.93 (Rt.)

8" San Lt.

Excavation	980	C.Y.
Embankment	72	C.Y.
Seeding	1050	S.Y.

See Sheet No. 42 For Plan View

902 903 904 905 906 907

966.75 969.03 971.42 974.61 978.38 981.83

984 982 980 978 976 974 972 970 968 966 964 962

PROFILE STA. 902+00 TO STA. 907+00

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

69
216

TRU-422-(14.70)-(16.38)

	BY	DATE
SURVEYED	C.H.	2-5-69
PLOTTED	K.W.	3-9-69
DRAWN	K.W.	4-15-71
DESIGNED	W.C.H.	3-71
QUANTITIES	W.C.H.	3-71
CHECKED BY	E.H.W.	11-28-69
	NED	4-71
	NED	4-71

907 908 909 910 911 912

998 996 994 992 990 988 986 984 982 980 978 976 974

NOTE: Proposed Profile to be Approximately 2½" Above Existing Pavement

P-5 +50 No 3 CB 32' Lt.
Gr. El. 992.25
F.L. El. 987.86

P-7 +50 No 3A CB 32' Rt.
Gr. El. 992.25
F.L. El. 988.34

+65 Exist C.B 23' Rt.
El. Top 995.32

+65 Exist C.B 21' Lt.
El. Top 996.32

Exist 15" Rt @ 4.65%

P-4 +50 No 1 MH 24' Lt.
El. Top 992.51
F.L. El. 986.00

P-7 +50 No 1 M.H 23' Rt.
El. Top 992.51
F.L. El. 988.25

+04 Exist CB 23' Rt.
El. Top 990.09

Exist 15" Rt @ 3.38%

Exist 15" Lt. @ 4.23%

F.L. Rt 992.17

F.L. Lt. 991.58

P-3 +35 No 3 CB 32' Lt.
El. Gr. 985.70
F.L. El. 982.50

P-3 10 L.F. 12" Type "B" @ 1.50%

+3.2%±

P-6 150 L.F. 21" Type B @ 4.50% (Lt.)

P-1 +25 No 1 MH 24' Lt.
El. Top 985.66
F.L. 979.53

+10 Exist. C.B 23' Lt.
El. Top 981.97

+78 Exist C.B 23' Rt.
El. Top 983.28

Exist. 15" Rt. @ 3.00%

F.L. Rt. 986.72

+13 Exist. San M.H. 32' Lt. El. Top 982.68 Adjust to Grade

+40 Fl. Exist 10" 982.62 70' Lt.

F.L. 12" In. 982.35

Exist 18" Lt @ 3.11%

P-6 F.L. 21" 986.25

P-2 35 L.F. 12" Type "B"

F.L. 979.95

P-4 225 L.F. 24" Type "B" @ 2.88% (Lt.)

18" Lt.

F.L. 10" 978.67

P-1 125 L.F. 24" Type "B" @ 2.60%

F.L. 977.45 (Lt.)

12" Rt.

8" San.

F.L. 974.82 (Lt.)

P-4 +50 No 1 MH 24' Lt.
El. Top 992.51
F.L. El. 986.00

P-7 +50 No 1 M H 23' Rt.
El. Top 992.51
F.L. El. 988.25

P-4 +50 No 3 CB 32' Lt.
Gr. El. 992.25
F.L. El. 987.86

P-7 +50 No 3 C.B. 32' Rt. Gr. El 992.25 F.L. 988.34

P-7 56 L.F. 12" Type "B" @ 1.00%

P-7 8 L.F. 12" Type "B" F.L. 987.78

Prop. 24"

992 990 988 986

30 20 10 0 10 20 30

CROSS OVER PROFILE
STA 910 + 50

SCALES 0 5 10 0 1 2

Excavation	1015	C.Y.
Embankment	25	C.Y.
Seeding	601	S.Y.

See Sheet No. 43 For Plan View

981.83 984.87 988.00 991.07 994.11 997.34

907 908 909 910 911 912

PROFILE STA. 907+00 TO STA. 912+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

70
216

TRU-422-(14.70)-(16.38)

LINE SHEET	BY	DATE	CHECKED BY	DATE
SURVEYED	C.H.	5-5-69		
PLOTTED	K.W.	5-5-69	E.H.W.	11-28-69
INKED	K.W.	4-15-71		
DESIGNED	W.C.H.	3-71	N.E.D.	4-71
QUANTITIES	W.C.H.	3-71	N.E.D.	4-71

NOTE:
Proposed Profile to be Approximately 2½" Above Existing Pavement

P-4 +00 No. 3 C.B. 32' Lt.
El. Gr. 1021.50
F.L. 1018.50

P-3 +90 No. 1 MH 24' Lt.
El. Top 1021.27
F.L. El. 1016.45

P-4 10 L.F. 12" Type "B" @ 1.50%

P-5 10 L.F. 12" Type "B" @ 4.75%

F.L. 12" In 1018.35

F.L. 12" In 1016.70

P-6
+14 23' Rt. No. 1 M.H.
Top El. 1012.82
F.L. El. 1008.41

+14 Exist C.B. 21' Lt.
Elev. Top 1012.63
Elev. Grade 1012.14

+14 Exist C.B. 23' Rt.
El. Top 1011.87

Exist 15" VSP(Rt) @ 4.86%

Exist 15" VSP(Lt) @ 4.78%

P-3 300 L.F. 15" Type "B" @ 4.80%

F.L. (Lt) 1008.42

F.L. (Rt) 1008.41

P-2 10 L.F. 12" Type "B" @ 1.50%

P-2 +00 No. 3 C.B. 32' Lt.
El. Gr. 1007.04
F.L. El. 1003.24

+4.8% ±

P-1 +90 No. 1 MH 24' Lt.
El. Top 1006.82
F.L. El. 1001.55

+19 Exist C.B. 25' Lt.
El. Top 1003.10

F.L. 12" In 1003.03

Exist 15" Lt @ 5.29%

F.L. 15" In 1002.05

F.L. 988.10 (Lt)

Exist 15" Storm Rt @ 4.65%

Exist 15" Lt @ 4.23%

P-1 190 L.F. 21" Type "B" @ 4.50%

Excavation	1281	C.Y.
Embankment	10	C.Y.
Seeding	1039	S.Y.

See Sheet No. 44 For Plan View

1022 1020 1018 1016 1014 1012 1010 1008 1006 1004 1002 1000 998 996

912 913 914 915 916 917

997.94 1002.51 1007.40 1012.22 1017.00 1021.85

PROFILE STA. 912+00 TO STA 917+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

71
216

TRU-422-(14.70)-(16.38)

NOTE: Proposed Profile to be Approximately 2½" Above Existing Pavement.

+75 24' Lt. No. 1 M.H.
El. Top 1040.13
F.L. El. 1035.00

P-3 +88 No. 2-2A CB 36' Lt.
Gr. El. 1040.0
F.L. El. 1035.96

P-4
+13 23' Rt. No. 1 M.H
Top El. 1036.93
F.L. El. 1032.35

+13 Exist C.B. 28' Rt
El. Top 1035.32

+13 Exist. C.B. 21' Lt.
Elev. Top 1036.67
Elev. Grate 1036.19

+5.1%

15" VSP Rt. @ 5.41%

15" Storm Lt. @ 5.71%

P-3 20 LF 12" Type B @ 4.80%

END PROJECT
STA 919+32.38

F.L. 15" VSP Rt. 1032.35

F.L. 15" VSP Lt. 1031.63

+64 No. 1 M.H. 23' Rt.
El. Top 1024.85
F.L. El. 1020.57

Exist 15" VSP (Rt.) @ 4.73%

+4.8%

P-1 375 LF 12" Type "B" @ 4.75%

+64 Exist C.B. 21' Lt.
Elev. Top 1024.67
Elev. Grate 1023.86

P-4 +00 No. 3 C.B.
23' Lt.
El. Gr. 1021.52
F.L. 1018.60

+64 Exist C.B. 23' Rt.
El. Top 1023.72

Exist 15" Storm (Lt.) @ 4.55%

Exist 15" VSP Rt.

F.L. 15" VSP (Lt.) 1020.37

F.L. 15" VSP (Rt.) 1020.57

Exist 15" VSP Lt.

Excavation	1080	C.Y.
Embankment	57	C.Y.
Seeding	1278	S.Y.

| | | |

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

TRU-422-(14.70)-(16.38)

72
216

	BY	DATE
SURVEYED	C.H.	
PLOTTED	K.W.	9-9-69
INKED	K.W.	4-17-71
DESIGNED	W.C.H.	2-71
QUANTITIES	W.C.H.	
CHECKED BY	E.H.W.	12-8-69
	R.L.M.	3-71

1070
1068
1066
1064
1062
1060
1058
1056
1054
1052
1050
1048
1046

NOTE:
Proposed Profile to be approximately 2½" above Existing Pavement

END WORK STA. 923+17.38

+62 Exist. C.B. 21' Lt.
Elev. Top 1050.43
Window 1050.03

+62 Exist C.B. 21 Rt.
Elev. Top 1050.56
Window 1050.19

Drain Opening Rt. 1049.11

F.L. 12" Conc. Lt. 1047.27

F.L. Lt. 1045.91

F.L. Rt. 1045.81

Excavation	121	C.Y.
Embankment	6	C.Y.
Seeding	205	S.Y.

1066
1064
1062
1060
1058
1056
1054
1052
1050
1048
1046

See Sheet No. 46 For Plan View

1047.18 922 1052.82 923 1057.60 924 1060.30 925 1063.85 926 1065.37 927

PROFILE STA. 922+00 TO STA. 927+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

73
216

TRU-422-(14.70)-(16.38)

PAVEMENT ELEVATIONS

ELEV. LEFT EDGE	PAV'T. EDGE LEFT	STATION	PROFILE ELEV.	PAV'T. EDGE RT.	ELEV RIGHT EDGE
980.50	23'	774+57.60	980.90	27' Exist.	980.60
979.44	23.77'	775+00	979.91	27' Exist.	979.63
975.67	28.22'	776+00	976.14	30'	975.83
971.65	30'	777+00	972.12	30'	971.81
967.65	30'	778+00	968.12	30'	967.81
963.63	30'	779+00	964.10	30'	963.79
961.43	30'	779+50	961.90	30'	961.43
959.53	30'	780+00	959.80	30'	959.58
956.92	30'	780+50	957.39	30'	956.92
954.51	30'	781+00	954.98	30'	954.51
949.78	30'	782+00	950.25	30'	949.78
945.77	30'	783+00	946.24	30'	945.77
941.91	30'	784+00	942.38	30'	941.91
941.23	30'	784+21	941.70	30'	941.23
938.67	30'	785+00	939.14	30'	938.67
936.10	30'	786+00	936.57	30'	936.10
935.16	30'	786+46	935.63	30'	935.16
934.06	30'	787+00	934.53	30'	934.06
932.15	30'	788+00	932.62	30'	932.15
930.43	30'	789+00	930.90	30'	930.43
928.85	30'	790+00	929.32	30'	928.85
927.40	30'	791+00	927.87	30'	927.40
926.25	30'	792+00	926.72	30'	926.25
925.25	30'	793+00	925.72	30'	925.25
924.43	30'	794+00	924.90	30'	924.43
923.67	30'	795+00	924.14	30'	923.67
922.90	30'	796+00	923.37	30'	922.90
922.18	30'	797+00	922.65	30'	922.18
921.50	30'	798+00	921.97	30'	921.50
920.87	30'	799+00	921.34	30'	920.87
920.23	30'	800+00	920.70	30'	920.23
919.49	30'	801+00	919.96	30'	919.49
918.71	30'	802+00	919.18	30'	918.71
917.95	30'	803+00	918.42	30'	917.95
917.19	30'	804+00	917.66	30'	917.19
916.44	30'	805+00	916.91	30'	916.44
915.57	30'	806+00	916.04	30'	915.57
914.66	30'	807+00	915.13	30'	914.66
914.31	30'	807+41	914.78	30'	914.31
913.77	30'	808+00	914.24	30'	913.77
912.77	30'	809+00	913.24	30'	912.77
911.80	30'	810+00	912.27	30'	911.80
911.33	30'	810+51.40	911.80	30'	911.33
910.99	30'	811+11.40	911.46	30'	911.18
910.81	30'	811+71.40	911.28	30'	911.05
910.49	30'	812+31.40	910.96	30'	911.05
909.81	30'	812+91.40	910.28	30'	910.56
908.93	30'	813+51.40	909.40	30'	909.87
908.14	30'	814+00	908.61	30'	909.08
906.71	30'	815+00	907.18	30'	907.65
905.10	30'	816+00	905.57	30'	906.04
903.23	30'	817+00	903.70	30'	904.17
901.36	30.88'	818+00	901.84	30.88'	902.33
899.50	31.96'	819+00	900.00	31.96'	900.50
897.80	33.05'	820+00	898.31	33.05'	898.82

SUPERELEVATION
SEE SHEET No. 74

ELEV LEFT EDGE	PAV'T. EDGE LEFT	STATION	PROFILE ELEV.	℄ CONSTR.	PAV'T. EDGE RT.	ELEV RIGHT EDGE
896.55	34'	820+87.09	897.08		34'	897.61
895.71	34'	821+47.09	896.24		34'	896.55
895.82	34'	822+07.09	895.35		34'	895.45
893.77	34'	822+67.09	894.30		34'	894.19
892.69	34'	823+27.09	893.22		34'	892.90
891.55	34'	823+87.09	892.08		34'	891.55
889.77	34'	824+76.55	890.30		34'	889.77
889.13	34'	825+07	889.66		34'	889.13
885.87	46'	826+40	886.59		24'	886.22
884.37	46'	827+00	885.09		24'	884.72
881.73	46'	828+00	882.45		24'	882.08
879.11	46'	829+00	879.85		24'	879.46
876.66	46'	830+00	877.38		34'	876.85
874.69	41.54'	831+00	875.34		34'	874.81
873.81	37.67'	831+58	874.46		34'	873.87
873.28	36'	832+00	873.84			
873.85	36'	832+41	873.41			
872.37	36'	833+00	872.93		24'	872.56
871.88	36'	834+00	872.44		24'	872.07
871.71	36'	835+00	872.27		24'	871.90
871.65	36'	836+00		872.19 1.5' Lt.	24'	871.86
871.33	36'	837+00		872.02 3.0' Lt.	24'	871.59
871.09	36'	838+00		871.84 4.5' Lt.	24'	871.39
871.09	36'	839+00		871.56 6.0' Lt.	24'	871.09
870.99		839+25		871.00 6.0' Lt.		870.99
870.73		840+00		871.20 6.0' Lt.		870.73
870.39		840+78		870.86 6.0' Lt.		870.39
870.30		841+00		870.77 6.0' Lt.		870.30
869.82		842+00		870.31 4.5' Lt.		869.86
869.56		842+50		870.08 3.75' Lt.		869.62
869.29		843+00		869.81 3.0' Lt.		869.30
868.75		844+00		869.31 1.5' Lt.		868.90
868.15		845+00	868.93		25'	868.95
		TRAFFIC CONTROLS ONLY				
		864+00	877.62			
877.42	40'	864+31	878.04		30'	877.57
878.36	40'	865+00	878.98		30'	878.51
879.51	40'	866+00	880.13		30'	879.66
880.82	40'	867+00	881.44		30'	880.97
882.24	40'	868+00	882.86		30'	882.39
883.72	40'	869+00	884.34		30'	883.87
885.05	40'	870+00	885.67		30'	885.20
886.23	40'	871+00	886.85		30'	886.38
887.53	40'	872+00	888.15		30'	887.68
889.00	40'	873+00	889.62		30'	889.15
890.74	40'	874+00	891.36		30'	890.89
892.24	40'	874+84	892.86		30'	892.39
		SUPERELEVATED CURVE (See Sheet No. 74)				
918.69	30.46'	886+08.15	919.16		30.45'	918.68
920.53	30.86'	887+00	921.01		34.53'	920.47
921.55	31.08'	887+48.65	922.03		36.69'	921.46
922.60	31.30'	888+00	923.09		35.57'	922.54
923.52	31.48'	888+42.24	924.01		34.64'	923.47
924.78	31.73'	889+00	925.27		33.38'	924.75
926.47	32'	889+63	927.00		32'	926.47
927.52	32'	890+00	928.02		32'	927.52

SUPERELEVATION
SEE SHEET No. 74

ELEV. LEFT EDGE	PAV'T. EDGE LEFT	STATION	PROFILE ELEV.	PAV'T. EDGE RT.	ELEV. RIGHT EDGE
931.25	32'	891+00	931.75	32'	931.25
935.14	32'	892+00	935.64	32'	935.14
938.98	32'	893+00	939.48	32'	938.98
941.13	32'	893+55.13	941.63	32'	941.13
S.R.	46	894+00	943.38	32'	942.88
		894+27.02	944.43	32'	943.93
		895+00	947.30	S.R.	46
947.26	43'	895+16.18	947.93		
949.22	42.50'	895+67.91	949.88	24'	949.44
950.44	42.19'	896+00	951.10	24.42'	950.75
953.86	41.22'	897+00	954.50	25.72'	954.10
957.02	40.24'	898+00	957.65	27.01'	957.23
959.82	39.27'	899+00	960.43	28.31'	959.99
962.07	38.29'	900+00	962.67	29.61'	962.21
963.95	34.27'	901+00	964.78	30'	964.31
966.63	30'	902+00	967.10	30'	966.63
968.93	30'	903+00	969.40	30'	968.93
971.44	30'	904+00	971.91	30'	971.44
974.46	30'	905+00	974.93	30'	974.46
978.27	30'	906+00	978.74	30'	978.46
981.72	30'	907+00	982.19	30'	981.72
984.80	30'	908+00	985.27	30'	984.80
987.87	30'	909+00	988.34	30'	987.87
990.86	30'	910+00	991.33	30'	990.86
993.98	30'	911+00	994.45	30'	993.98
997.79	30'	912+00	998.26	30'	997.79
1002.37	30'	913+00	1002.84	30'	1002.37
1007.21	30'	914+00	1007.68	30'	1007.21
1012.04	30'	915+00	1012.51	30'	1012.04
1016.81	30'	916+00	1017.28	30'	1016.81
1021.67	30'	917+00	1022.14	30'	1021.67
1026.47	30'	918+00	1026.94	30'	1026.47
1031.27	30'	919+00	1031.74	30'	1031.27
1032.85	30'	919+32.38	1033.32	30'	1032.85
		920+00	1036.61		

LINE SHEET

	DATE	CHECKED BY	DATE
SURVEYED			
PLOTTED			
INKED	11-9-70	KWL	
DESIGNED	2-71	RAW	3-71
QUANTITIES		WCH	2-71

BRUNING 44-560 10943

SUPERELEVATION TABLES

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

74
216

TRU-422 - (14.70) - (16.38)

CURVE Nº 1
P.I. STA. 817+29.87 $D_c = 2°40'$

STATION	℄	LT. EDGE	WIDTHS		RT. EDGE
T.S. 810+51.40	911.80	911.33	30	30	911.33
810+75	911.64	911.17			911.27
811+00	911.52	911.05			911.21
+11.40	911.46	910.99			911.18
+25	911.42	910.95			911.15
+50	911.38	910.91			911.10
+71.40	911.28	910.81			911.05
+75	911.26	910.79			911.05
812+00	911.17	910.70			911.05
+25	910.99	910.52			911.05
+31.40	910.96	910.49			911.05
+50	910.78	910.31			910.89
+75	910.50	910.03			910.69
+91.40	910.28	909.81			910.56
813+00	910.15	909.68			910.46
+25	909.75	909.28			910.17
S.C. +51.40	909.40	908.93			909.87
+75	909.00	908.53			909.47
814+00	908.61	908.14			909.08
+25	908.25	907.78			908.72
+50	907.90	907.43			908.37
+75	907.54	907.07			908.01
815+00	907.18	906.71			907.65
+25	906.78	906.31			907.25
+50	906.38	905.91			906.85
+75	905.98	905.51			906.45
816+00	905.57	905.10			906.04
+25	905.11	904.64			905.58
+50	904.64	904.17			905.11
+75	904.17	903.70			904.64
817+00	903.70	903.23			904.17
+19.24	903.34	902.87	30	30	903.81
+25	903.24	902.77	30.06	30.06	903.70
+50	902.77	902.30	30.33	30.33	903.24
+75	902.31	901.83	30.61	30.61	902.78
818+00	901.84	901.36	30.88	30.88	902.32
+25	901.38	900.89	31.15	31.15	901.87
+50	900.92	900.43	31.42	31.42	901.41
+75	900.46	899.97	31.69	31.69	900.95
819+00	900.00	899.50	31.96	31.96	900.50
+25	899.57	899.07	32.23	32.23	900.07
+50	899.15	898.64	32.50	32.50	899.66
+75	898.73	898.21	32.77	32.77	899.23
820+00	898.31	897.80	33.05	33.05	898.82
+25	897.95	897.43	33.32	33.32	898.47
+50	897.60	897.08	33.59	33.59	898.12
+75	897.25	896.72	33.86	33.86	897.78
C.S. +87.09	897.08	896.55	34	34	897.61
821+00	896.90	896.37	34	34	897.38

CURVE Nº 1 (CONT.)

STATION	℄	LT. EDGE	WIDTHS		RT. EDGE
821+25	896.55	896.02	34	34	896.94
+47.09	896.24	895.71			896.55
+50	896.20	895.67			896.50
+75	895.85	895.32			896.04
822+00	895.50	894.97			895.58
+07.09	895.35	894.82			895.45
+25	895.05	894.52			895.07
+50	894.60	894.07			894.55
+67.09	894.30	893.77			894.19
+75	894.18	893.65			894.02
823+00	893.72	893.19			893.48
+27.09	893.22	892.69			892.90
+50	892.80	892.27			892.38
+75	892.30	891.77			891.82
S.T. +87.09	892.08	891.55			891.55
824+00	891.82	891.29	34	34	891.29

CURVE Nº 2
P.I. STA. 880+48.40 $D_c = 2°30'$

STATION	PROFILE	LT. EDGE	℄	RT. EDGE	WIDTHS LT.	WIDTHS RT.
874+00	891.36	890.74	891.36	890.89	40	30
+25	891.81	891.19	891.81	891.34		
+50	892.25	891.63	892.25	891.78		
+75	892.70	892.08	892.70	892.23		
+84.00	892.86	892.24	892.86	892.39	40	
875+00	893.14	892.62	893.14	892.67	38.25	
+25	893.68	893.29	893.68	893.21	35.30	
+50	894.22	893.96	894.22	893.75	32.35	
+75	894.76	894.61	894.76	894.29	30	30
876+00	895.30	895.23	895.30	894.83		
T.S. +19.41	895.80	895.80	895.80	895.33		
+25	895.94	895.98	895.94	895.47		
+50	896.55	896.76	896.55	896.08		
+59.41	896.72	897.00	896.72	896.25		
+75	897.06	897.45	897.06	896.59		
+87.00	897.31	897.78	897.31	896.84		
+99.41	897.58	898.05	897.58	897.11		
877+00	897.59	898.06	897.59	897.12		
+25	898.16	898.63	898.16	897.69		
+39.41	898.48	898.95	898.48	898.01		
+50	898.74	899.21	898.74	898.27		
+75	899.35	899.82	899.35	898.88		
+79.41	899.46	899.93	899.46	898.99		
878+00	900.03	900.50	900.03	899.56		
S.C. +19.41	900.57	901.04	900.57	900.10		
+25	900.75	901.22	900.75	900.28		
+50	901.55	902.02	901.55	901.08		
+75	902.35	902.82	902.35	901.88		
879+00	903.15	903.62	903.15	902.68		
+25	903.90	904.37	903.90	903.43		
+50	904.64	905.11	904.64	904.17		
+75	905.39	905.86	905.39	904.92		
880+00	906.13	906.60	906.13	905.66		
+25	906.86	907.33	906.86	906.39		
+46.07	907.48	907.95	907.48	907.01		
+50	907.58	908.05	907.58	907.11		
+75	908.24	908.71	908.24	907.77		
881+00	908.89	909.36	908.89	908.42		
+25	909.48	909.95	909.48	909.01		
+50	910.06	910.53	910.06	909.59		
+75	910.65	911.12	910.65	910.18		
882+00	911.23	911.70	911.23	910.76		
+25	911.79	912.26	911.79	911.32		
+50	912.34	912.81	912.34	911.87		
C.S. +72.74	912.85	913.32	912.85	912.38		
+75	912.90	913.37	912.90	912.43		
883+00	913.44	913.91	913.44	912.97		
+12.74	913.72	914.19	913.72	913.25		
+25	913.95	914.42	913.95	913.48	30	30

CURVE Nº 2 (CONT.)

STATION	PROFILE	LT. EDGE	℄	RT. EDGE	WIDTHS LT.	WIDTHS RT.	
883+50	914.43	914.90	914.43	913.96	30	30	
+52.74	914.48	914.95	914.48	914.01			
+75	914.88	915.35	914.88	914.41			
+92.74	915.20	915.67	915.20	914.73			
884+00	915.33	915.80	915.33	914.86			
+05.15	915.43	915.90	915.43	914.96			
+25	915.79	916.12	915.79	915.32			
+32.74	915.93	916.21	915.93	915.46			
+50	916.24	916.40	916.24	915.77			
S.T. +72.74	916.64	916.64	916.64	916.17			
+75	916.68	916.67	916.68	916.21			
885+00	917.10	917.01	917.10	916.63	30	30	JOHNNY CAKE & FREDERICK INTERSECTION
+25	917.58	917.40	917.58	917.11			
+50	918.05	917.78	918.05	917.58			
+75	918.53	918.18	918.53	918.06			
886+00	919.00	918.56	919.00	918.53	30.36	30.09	
+08.15	919.16	918.69	919.16	918.68	30.46	30.45	
+25	919.50	919.02	919.50	919.01	30.53	31.20	
+50	920.01	919.53	920.01	919.51	30.63	32.31	

LINE SHEET
BY | DATE
SURVEY
FIELD FML
DESIGN/LO
QUANTITIES

BRUNING 44-560 10943

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

75
216

TRU-422-(14.70)-(16.38)

Seeding		End Area		Co. Yds.	
L.F.	S.Y.	Cut	Fill	Exc.	Emb.

℄ Dr. Rt. 18 Bit. Conc.

774+34
981.42

774+22
981.65

774+00
982.19

Drive 773+51 Lt.

773+40
982.93

773+08
983.36

773+00
983.36

772+50
983.10

980
900
980
985
985
985

70 60 50 40 30 20 10 0 10 20 30 40 50 60 70

CROSS SECTIONS STA. 772+50 TO STA. 774+34

CROSS SECTION SHEET

	DATE
C.H.	3-20-70
K.W.	3-30-70
R.L.M. Solomon	6-30-70
K.W.	12-14-70
K.W.	3-30-71

Solomon	6-30-70
KW	12-22-70
FJP	4-2-71

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

75A 216

TRU-422-(14.70)-(16.38)

CROSS SECTION SHEET

	BY	DATE	CHECKED BY	DATE
SURVEYED	E.A.S.J.	3-9-69	D.R.R.	2/11/69
PLOTTED	K.W.	3-10-69		
TENTATIVE	R.L.M.	10-16-70	K.W.	12-22-70
INKED	K.W.	10-16-70	K.W.	4-2-71
END AREAS	K.W.	10-16-70	F.J.P.	3-30-71
VOLUME TOTALS	K.W.	3-30-71		

C-21 — 967.65

968.12
778+00
967.78

END DRIVE 39' LT.

968.05

C-64 — 967.81

Bit. Conc. Parking

968.52
777+90 ℄ Dr Lt. 20' Bit. Conc.
968.14

END DRIVE 39' LT.

971.16
777+24 Dr. Lt.
970.80

C-31

C-34 — 971.81

+30 Dr Lt.

Bit. Conc. Parking

+24 Dr Lt.

972.12
777+00
971.74

BEGIN PROJECT STA 776+39.98

C-17

5%

C-14 — 975.83

776+76.38
INTERSECTION
WESTOVER DR.

Bit. Conc. Parking

+116 Dr. Lt.

976.14
776+00
975.87

+116 Dr. Lt.

15' Feather

973.07
776+76.38 Intersection Westover Dr. Lt.
972.70

End Feather 37' Rt.

775+60 ℄ Dr. Rt.
977.51

+60 Dr. Rt.

C-8

979.91
775+00
979.81

202 Wearing Course Removed (Ahead Only) See Detail

C-6

774+57.60
980.90

Seeding		End Area		Cu. Yds.	
L.F.	S.Y.	Cut	Fill	Exc.	Emb.
16		85	0		
178				278	0
				(4)	(0)
16		65	0		
				(2)	(0)
111				181	0
	(22)			(15)	(4)
4		31	0	(9)	(0)
33				72	0
				(4)	(0)
2		8	0		
9		6		11	0
2		6	0		

	CY	CY	SY
Excavation	294	4	175
Embankment			
Seeding			

CROSS SECTIONS STA 774 + 57.60 TO STA 778+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

TRU-422-(14.70)(16.38)

76
216

CROSS SECTION SHEET

	BY	DATE	CHECKED BY	DATE
SURVEYED	E.A.G.J.	9-9-69		
PLOTTED	K.W.	9-11-69	R.L.P.	8/11/69
TRACED	R.L.M.			
INKED	K.W.	10-14-70	K.W.	12-22-70
END AREAS	K.W.	10-16-70	K.W.	4-1-71
VOLUME TOTALS	K.W.	3-31-71	F.J.P.	

Seeding		End Area		Co Yds.	
L.F.	S.Y.	Cut	Fill	Exc.	Emb.
				+81 Dr. Lt.	(4)(0)
13		53	0		
100				102	1
23		57	1		

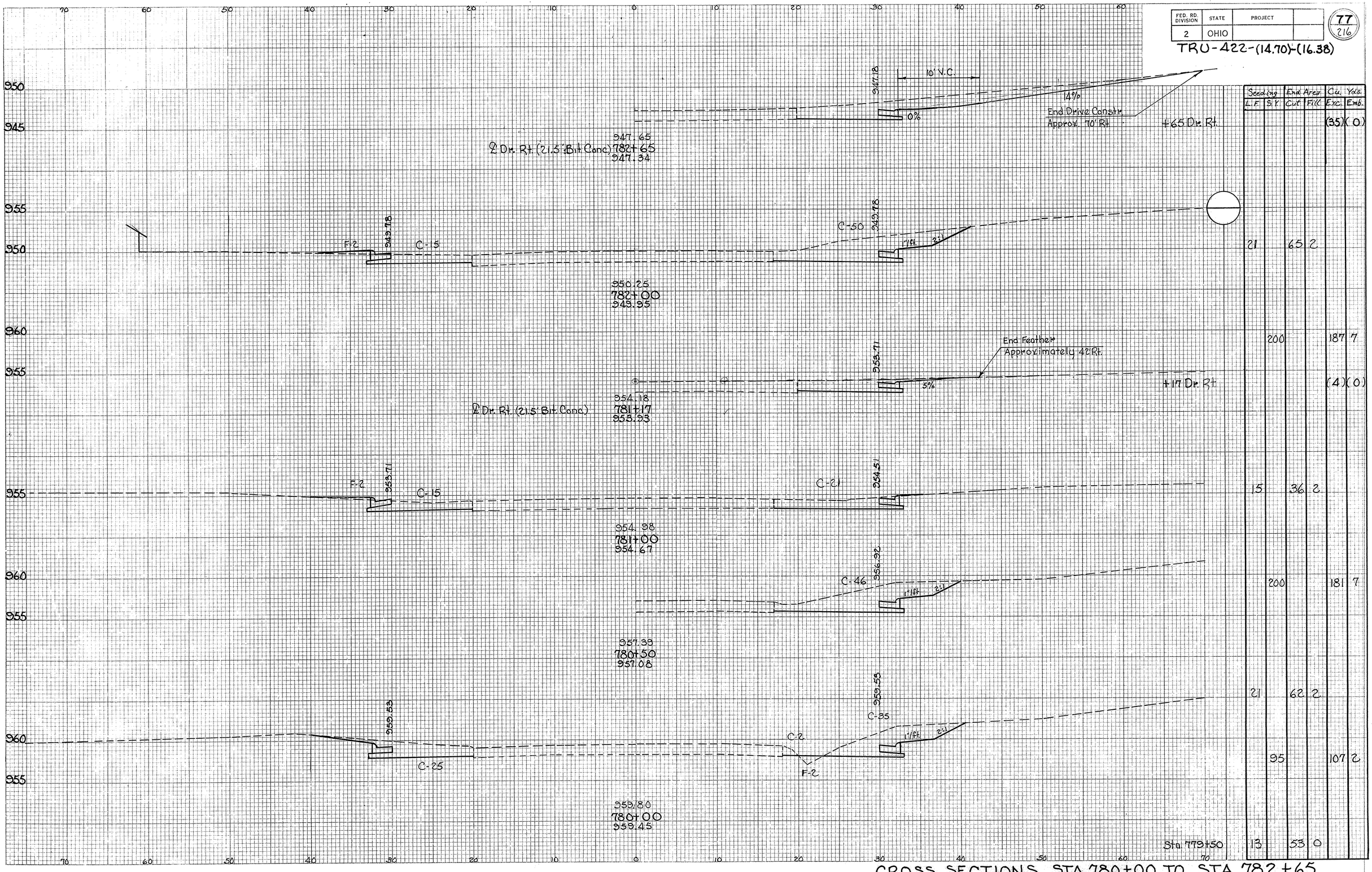
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

TRU-422-(14.70)-(16.38)

77
216

CROSS SECTION SHEET

	BY	DATE	CHECKED BY	DATE
SURVEYED	E.A.&S.J.	9-9-69		
PLOTTED	K.W.	9-10-69	EAP	9/11/69
TEMPLATE	R.L.M.			
INKED	K.W.	10-14-70		
END AREAS	K.W.	10-15-70	KW	12-22-70
VOLUME TOTALS	K.W.	3-31-71	FJP	4-1-71



Seeding		End Areas		Cu. Yds.	
L.F.	S.Y.	Cut	Fill	Exc.	Emb.
					(35)(0)
21		65	2		
					(4)(0)
200				187	7
15		36	2		
200				181	7
21		62	2		
95				107	2
13		53	0		

CROSS SECTIONS STA 780+00 TO STA. 782+65

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

TRU-422- (14.70) - (16.38)

78
216

CROSS SECTION SHEET	BY	DATE
SURVEYED	E.A.&S.J.	9-10-69
PLOTTED	K.W.	2-11-69
TEMPLATE	R.L.M.	
ANGLED	K.W.	10-15-70
END AREAS	K.W.	10-15-70
VOLUME TOTALS	K.W.	3-31-71
		12-22-70
		4-1-71

940
935
940
935
945
940
945
940
945
940
950
945
950
945

F-5 C-15 938.67

C-31 938.67 F-3

933.14
785+00
938.83

939.19 End Drive Constr. Approx. 40' Rt. 6%

+84 Dr. Rt.

℄ Dr. Rt. 10' Gravel
938.66
784+84
939.56

941.23 End Drive Constr. Approx. 40' Rt.

A:1 F-5 C-15 941.23

C-38 941.23 6%

+21 Dr. Rt.

℄ Dr. Rt. 10' Gravel
941.70
784+21
941.40

941.91

A:1 F-3 C-18 941.91

C-43 941.91 17% 5:1

942.38
784+00
942.05

942.93 17% 2:1

943.40
783+74
943.04

945.77 17% 2:1

F-1 C-17 C-40

946.24
783+00
945.97

End Constr. Approx. 57' Lt.

5%

947.48
782+68.56 ℄ ROSEWAY AVE. (UNIMPROVED)
946.86

+69 Dr. Lt.

Sta. 782+00

70 60 50 40 30 20 10 0 10 20 30 40 50 60

Seeding		End Area		Co. Yds.	
L.F.	S.Y.	Cut	Fill	Exc.	Emb.
20		46	8		
				(6)	(0)
	123			145	19
8		53	5		
				(6)	(0)
	29			44	3
17		61	3		
	189			215	7
17		57	1		
	211			226	6
				(20)	(27)(3)
21		65	2		

C.Y. 10366
C.Y. 151
S.Y. 938

Excavation
Embankment
Seeding

CROSS SECTIONS STA. 782+74 TO STA. 785+00

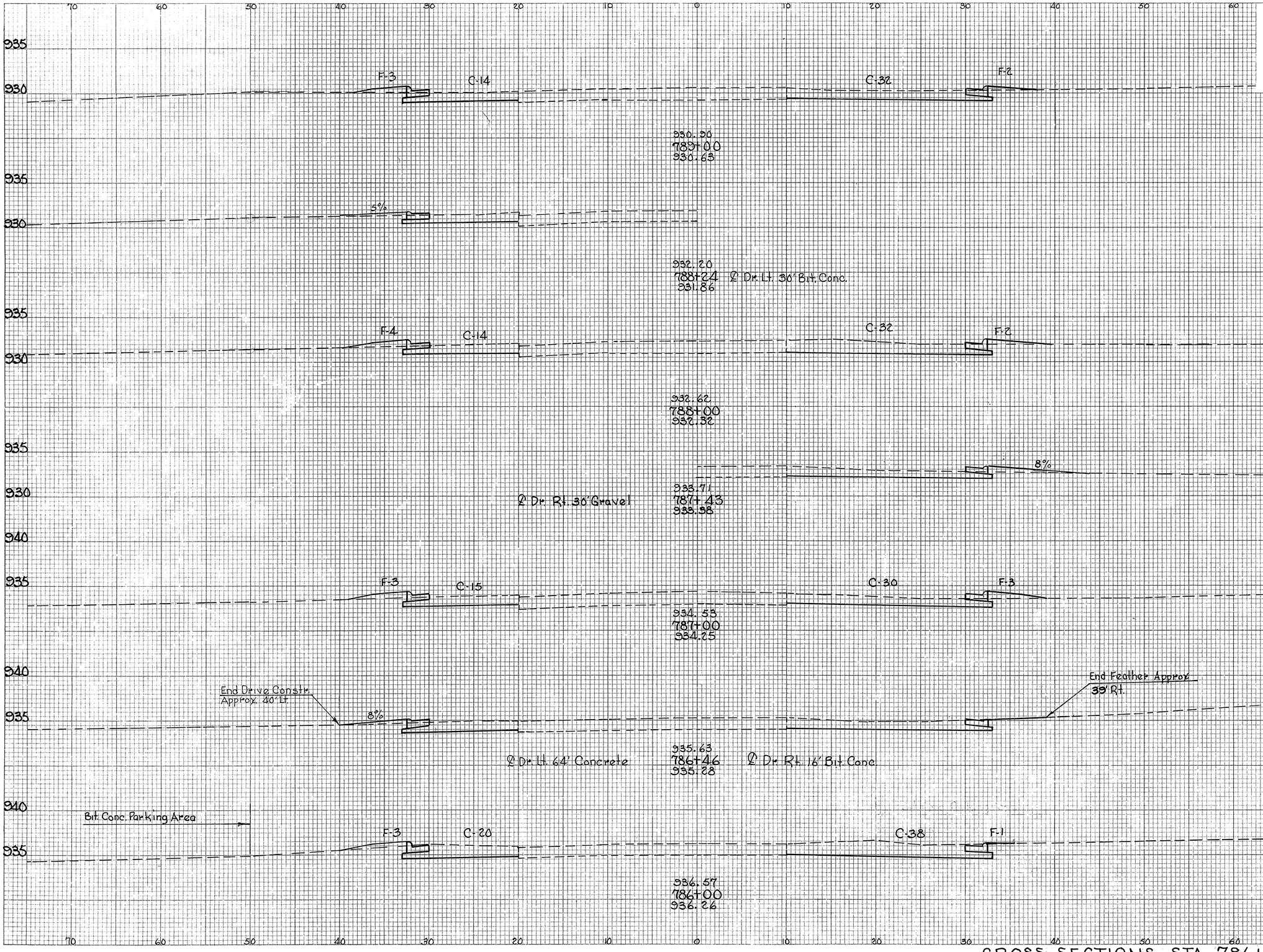
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

79/216

TRU-422-(14.76)-(16.38)

CROSS SECTION SHEET

	BY	DATE	CHECKED BY	DATE
SURVEYED	E.A.&S.J.	9-10-65		
PLOTTED	K.W.	2-11-65	D.E.P.	9/1965
TEMPLATE	R.L.M.	10-15-70		12-22-70
INKED	K.W.	10-15-70	K.W.	4-1-71
END AREAS	K.W.	10-15-70	P.J.P.	
VOLUME FORMS	K.W.	3-31-71	P.J.P.	



Seeding		End Area		Cu. Yds.	
L.F.	S.Y.	Cut	Fill	Exc.	Emb.
15		46	5		
	172			170	20
				(1)	(0)
16		46	6		
	178			96	94
				(12)	(0)
16		6	45		
	172			119	91
				(4)	(0)
				(4)	(0)
15		58	4		
	194			193	22
				(8)	(0)
20		46	8		

CROSS SECTIONS STA. 786+00 TO STA. 789+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

80
216

TRU-422-(14.70)-(16.38)

CROSS SECTION SHEET

BY	DATE	CHECKED BY	DATE
E.A.& S.J.	2-11-69	E.R.P.	9-1969
A.L.M.	3-12-69		
R.W.	10-15-70	K.W.	12-22-70
K.W.	10-15-70	K.W.	4-1-71
K.W.	3-31-71	F.J.P.	

930.42
792+29.82 ℄ Hilda St. Rt
926.11

926.25 — F-14 — C-20 — C-23 Ahead — C-5 — F-3 — Back Only — 792+09

926.72
792+00
926.40

926.58 — End Feather Approx. 42' Rt. — 3% — Bit. Conc. Parking Area — 791+41

927.05
791+71
926.74

927.40 — F-10 — C-17 — C-32 — 927.40 — F-2 — End Feather Approx. 42' Rt. — 2%

927.87
791+00
927.56
℄ Dr. Rt. 32' Bit. Conc.

928.85 — F-2 — C-19 — C-40 — 928.85

929.32
790+00
929.09

929.11 — End Feather Approx. 40' Rt.

929.58
789+82
929.38
℄ Dr. Rt. 34' Bit. Conc.

End Feather Approx. 40' Lt. — 4% — 929.33

930.00
789+57
929.77
℄ Dr. Lt.

929.13 — End Feather Approximately 40' Rt.

930.20
789+45
929.95
℄ Dr. Rt. 28' Bit. Conc.

	Seeding L.F.	Seeding S.Y.	End Area Cut	End Area Fill	Cu. Yds. Exc.	Cu. Yds. Emb.
Ahead	11		43	14		
Back	13		48	17		
		167			180	54
+65 Dr. Rt.					(0)	(0)
	17		49	12		
+98 Dr. Rt.					(4)	(0)
		189			200	26
Excavation C.Y. 8664						
Embankment C.Y. 207						
Seeding S.Y. 284						
	17		59	2		
+82 Dr. Rt.					(3)	(0)
		178			194	13
+57 Dr. Lt.					(1)	(0)
+45 Dr. Rt.					(3)	(0)
Sta. 789+00	15		46	5		

CROSS SECTIONS STA. 789+45 TO STA. 792+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

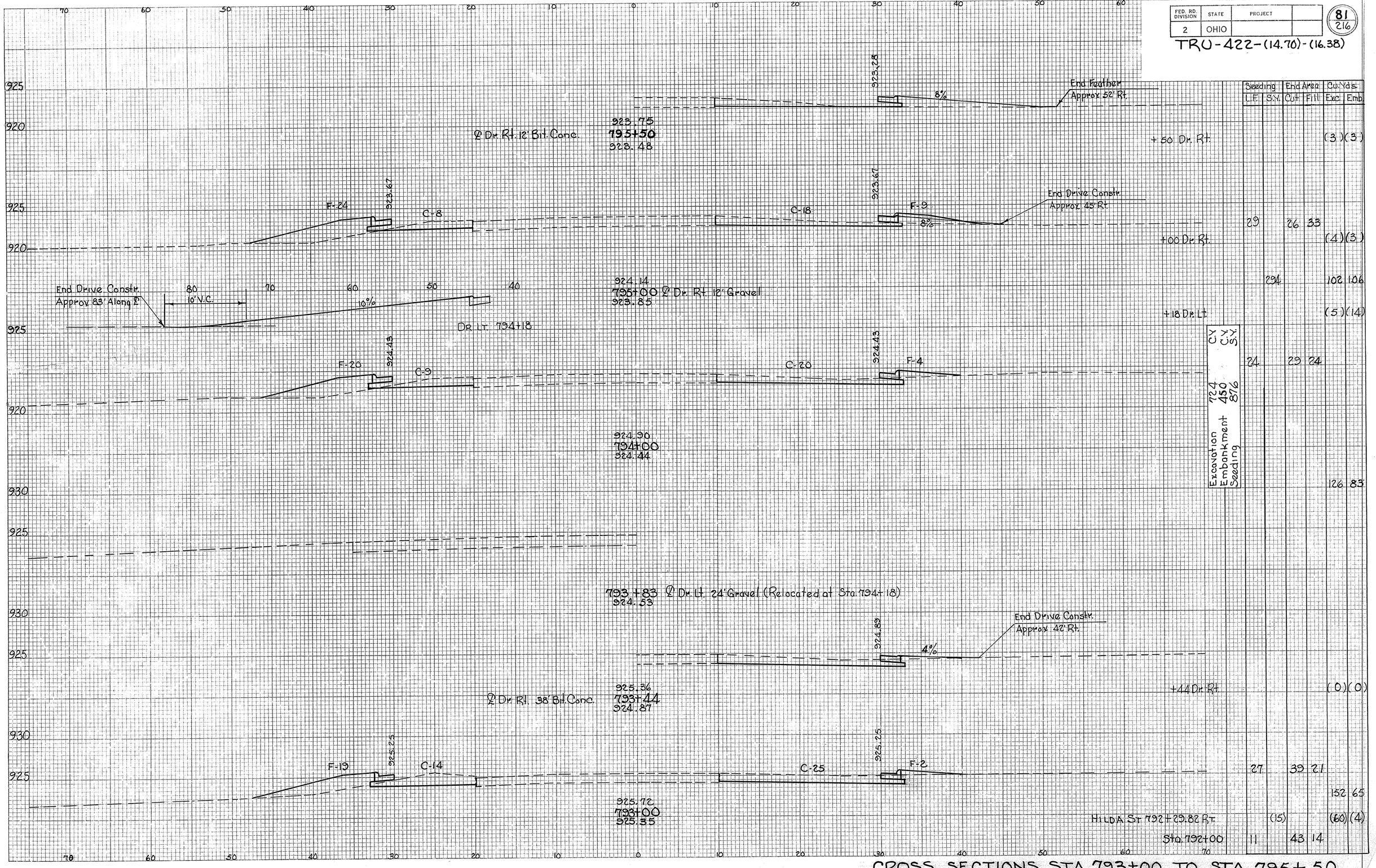
81
216

TRU-422-(14.70)-(16.38)

CROSS SECTION SHEET

	BY	DATE
SURVEYED	E.A.F.S.J.	2-11-69
PLOTTED	K.W.	9-15-69
TRACED	B.L.M.	
IMAGES	K.W.	10-15-70
ENGINEERS	K.W.	10-15-70
VOLUME DEPUTY	K.W.	3-31-71

	DATE
CHECKED BY	9/1/69
	12-22-70
KW	4-1-71
PJP	



	Seeding		End Area		Cu. Yds.	
	L.F.	S.Y.	Cut	Fill	Exc.	Emb.
						(3) (3)
	29		26	33		
						(4) (3)
		294			102	106
						(5) (14)
C.Y.		24.		29	24	
C.Y.						
S.Y.						
724						
450						
876						
						126 83
						152 65
		(15)				(60) (4)
	11		43	14		

Excavation
Embankment
Seeding

CROSS SECTIONS STA. 793+00 TO STA. 795+50

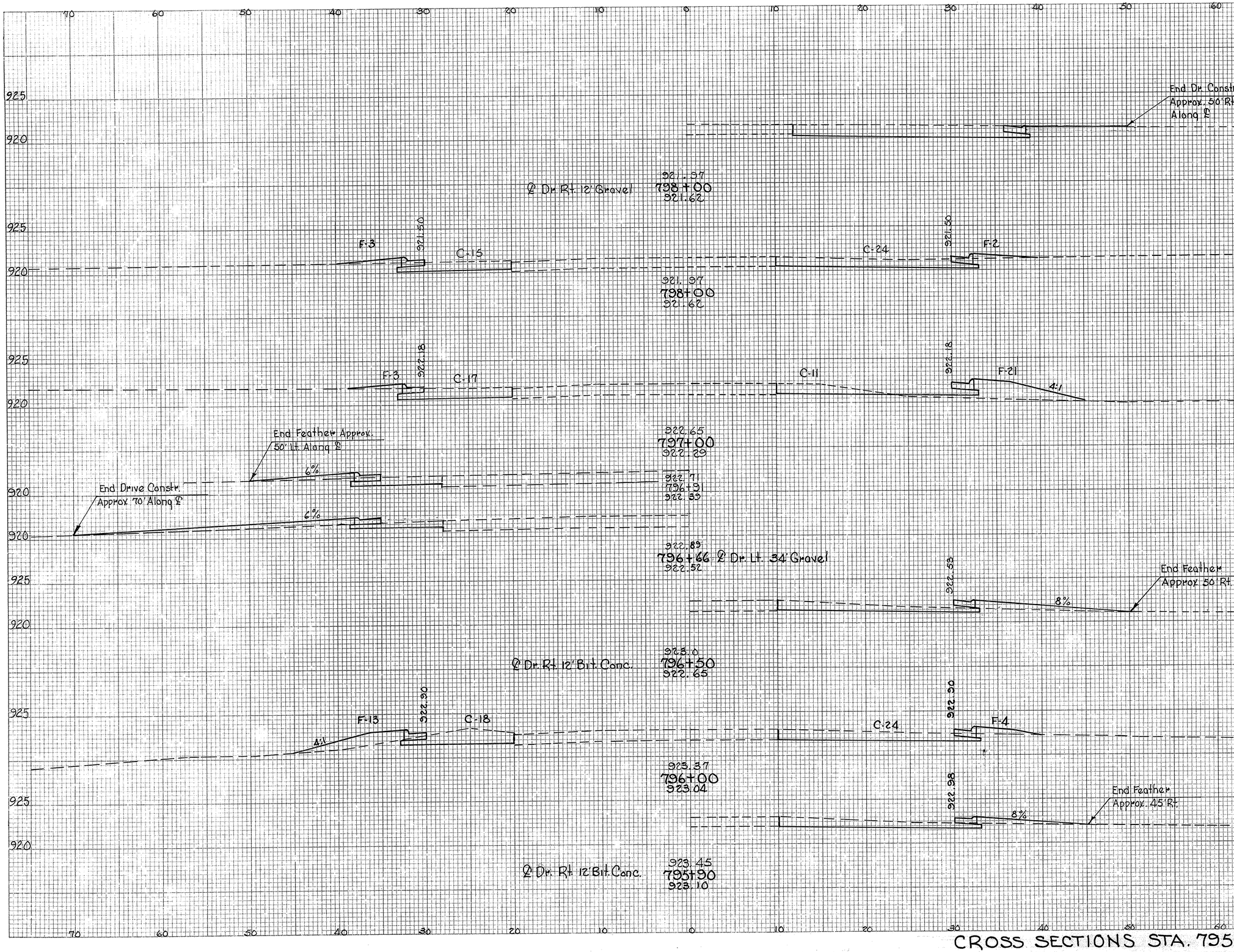
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

82
216

TRU-422-(14.70)-(16.38)

CROSS SECTION SHEET

BY	DATE	CHECKED BY	DATE
EAS/SJ	9-11-69		
KW	9-15-69	D.A.P.	9/17/69
RLM			
KW	10-15-70	H.A.S.	2-18-71
KW	10-15-70		
KW	3-31-71	F.J.P.	4-1-71



	Seeding	End Area		Co. Yds.	
	L.F.	S.Y.	Cut	Fill	Exc.	Emb.
+00 Dr. Rt.					(6)	(0)
	16		39	5		
	217				124	54
	23		28	24		
+91 Dr. Lt.					(0)	(0)
+66 Dr. Lt.					(10)	(0)
	267				130	76
+50 Dr. Rt.					(3)	(2)
	25		42	17		
	300				126	93
+90 Dr. Rt.					(3)	(1)
Sta. 795+00	29		26	33		

CROSS SECTIONS STA. 795+90 TO STA. 798+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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TRU-422-(14.70)(16.38)

70 60 50 40 30 20 10 0 10 20 30 40 50 60 70

920 915 920 915 920 925 920 925 920 925 920

919.08 Conc. Bit. Conc. Park Area

919.54
801+50
919.09

801+10

919.49 F-1 C-20 919.49 C-22 F-5 7% End Feather Approx. 47' Rt.

919.96
801+00
919.58 +30 Dr. Rt.

End Feather Approx. 42' Lt. 4% 919.70

920.26
800+56 ℄ Dr. Lt. 10' Bit. Conc.
919.84 +56 Dr. Lt.

920.23 F-7 C-12 C-8 920.23 F-13

920.70
800+00
920.38

End Feather Approx. 43' Lt. 4% 920.63

921.10
799+50 ℄ Dr. Lt. 28' Bit. Conc.
920.67 +50 Dr. Lt.

920.87 F-3 C-115 C-10 920.87 F-18

921.34
799+00
920.89

End Drive Constr. Approx. 47' Along ℄ 4%

921.72
798+37 ℄ Dr. Lt. 12' Gravel
921.36

70 60 50 40 30 20 10 0 10 20 30 40 50 60 70

	Seeding		End Area		Co. Yds.	
	L.F.	S.Y.	Cut	Fill	Exc.	Emb.
	8		42	6		
					(8)	(3)
		172			115	48
					(4)	(0)
	23		20	20		
	250				83	76
					(4)	(0)
	22		25	21		
	21				119	48
					(6)	(2)
Sta. 798+00	16		39	5		

C.Y. 628 Excavation
C.Y. 244 Embankment
S.Y. 939 Seeding

CROSS SECTIONS STA. 798+37 TO STA 801+50

	BY	DATE
ENGINEER'S ESTIMATE	E.A. & S.J.	3-11-69
DESIGNED	K.W.	3-16-69
DRAWN	R.L.M.	10-15-70
TRACED	K.W.	10-15-70
CHECKED	K.W.	3-31-71
QUANTITIES CHECKED		
APPROVED		

H.A.S. FJP 2-18-71 4-1-71 2-24-69

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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216

TRU-422-(14.70)-(16.38)

DRP	8-10-70	K.W
RS	3-31-71	E.J.P
K.W		

EARSJ	9-12-69
K.W	9-16-69

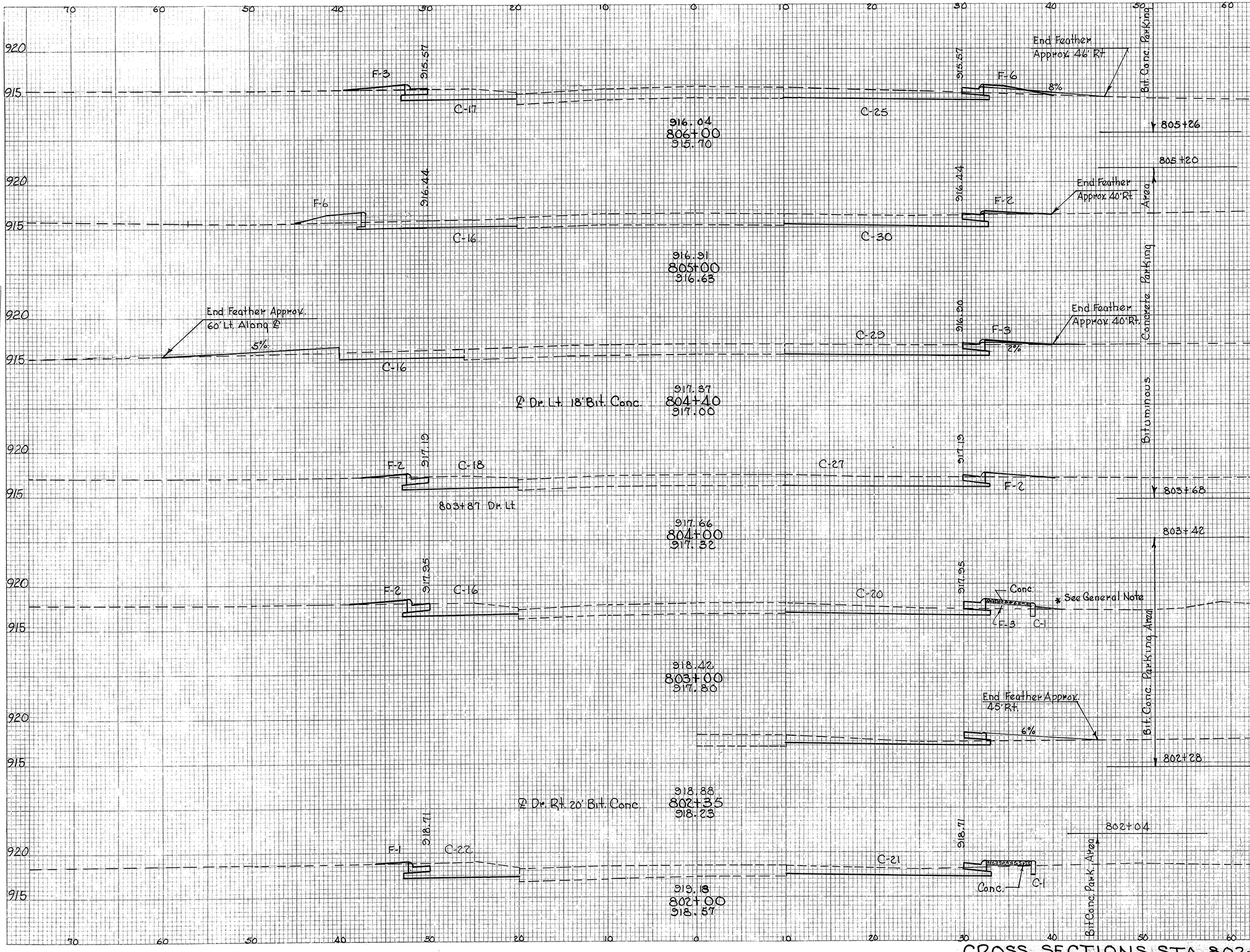
DRP 4-1-71

CROSS SECTIONS STA 802+00 TO STA 806+00

Station	Seeding L.F.	Seeding S.Y.	End Area Cut	End Area Fill	Cu.Yds Exc.	Cu.Yds Emb
805+26	17		42	9	(0)	(0)
805+20		189			163	31
	17		46	8		
					(0)	(0)
		189			169	22
					(4)	(2)
	17		45	4		
					(0)	(0)
		139			152	17
					(0)	(1)
	8		37	5		
		89			150	11
					(2)	(1)
	8		44	1		
		89			159	13
Sta. 801+00	8		42	6		

C.Y. 795 1116 789
C.Y.
S.Y.

Excavation
Embankment
Seeding



FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

85/216

TRU-422-(14.70)-(16.38)

CROSS SECTION SHEET

	BY	DATE	CHECKED BY	DATE
SURVEYED	EAESJ	2-12-69		
DRAWN	KW	9-14-69	Dec	1/1969
TRACED	RLM			
CHECKED	KW	10-19-70	KW	10-19-70
CORRECTED	RS	8-10-70		
QUANTITIES	KW	3-31-71	FJP	4-1-71

910 915 920

F-3 910.99 C-19 C-20 911.48 Conc * See General Note F-3 C-1

911.46 811+11.40 911.00

911.33 C-23 C-15 911.35 F-11 End Feather Approx 52' Rt. 10%

911.80 810+51.40 911.56 +51 Dr. Rt.

911.80 C-22 C-14 911.80 Conc * See General Note F-5 C-1

912.27 810+00 912.01 +30 Dr. Rt.

912.77 C-24 C-21 912.77 F-12 9% +30 Dr. Rt. End Feather Approx 64' Along ℄

808+93

913.24 809+00 912.94

913.77 F-2 C-18 C-11 913.77 F-30

914.24 808+00 913.91

End Feather Approx 57' Lt Along ℄ 0.5% End Feather Approx 60 Rt. Along ℄ 10% +41 Dr Rt +41 Dr. Lt.

℄ Dr. Lt. & Bit. Conc. 914.78 807+41 914.42 ℄ Dr. Rt. & Bit. Conc.

914.66 End Feather Approx Approx. 46' Lt. 4% F-3 C-14 C-26 914.66 F-4 10% End Feather Approx 46' Rt.

915.13 807+00 914.77 806+45 806+84 Dr Rt

Bit. Conc. Parking Sta. 806+00

Bituminous Concrete Parking Area

	Seeding		End Area		Co. Yds.	
	L.F.	S.Y.	Cut	Fill	Exc.	Emb.
	7		40	6		
		86			86	19
	19		38	11		
					(0)	(4)
		60			71	15
	2		37	5		
		83			152	31
					(0)	(4)
	13		45	12		
		200			137	81
	23		29	32		
					(0)	(4)
					(4)	(2)
		217			128	72
	16		40	7		
		183			152	30
					(3)	(1)
	17		42	9		

Excavation 647 C.Y.
Embankment 266 C.Y.
Seeding 749 S.Y.

CROSS SECTIONS STA 807+00 TO STA 811+11.40

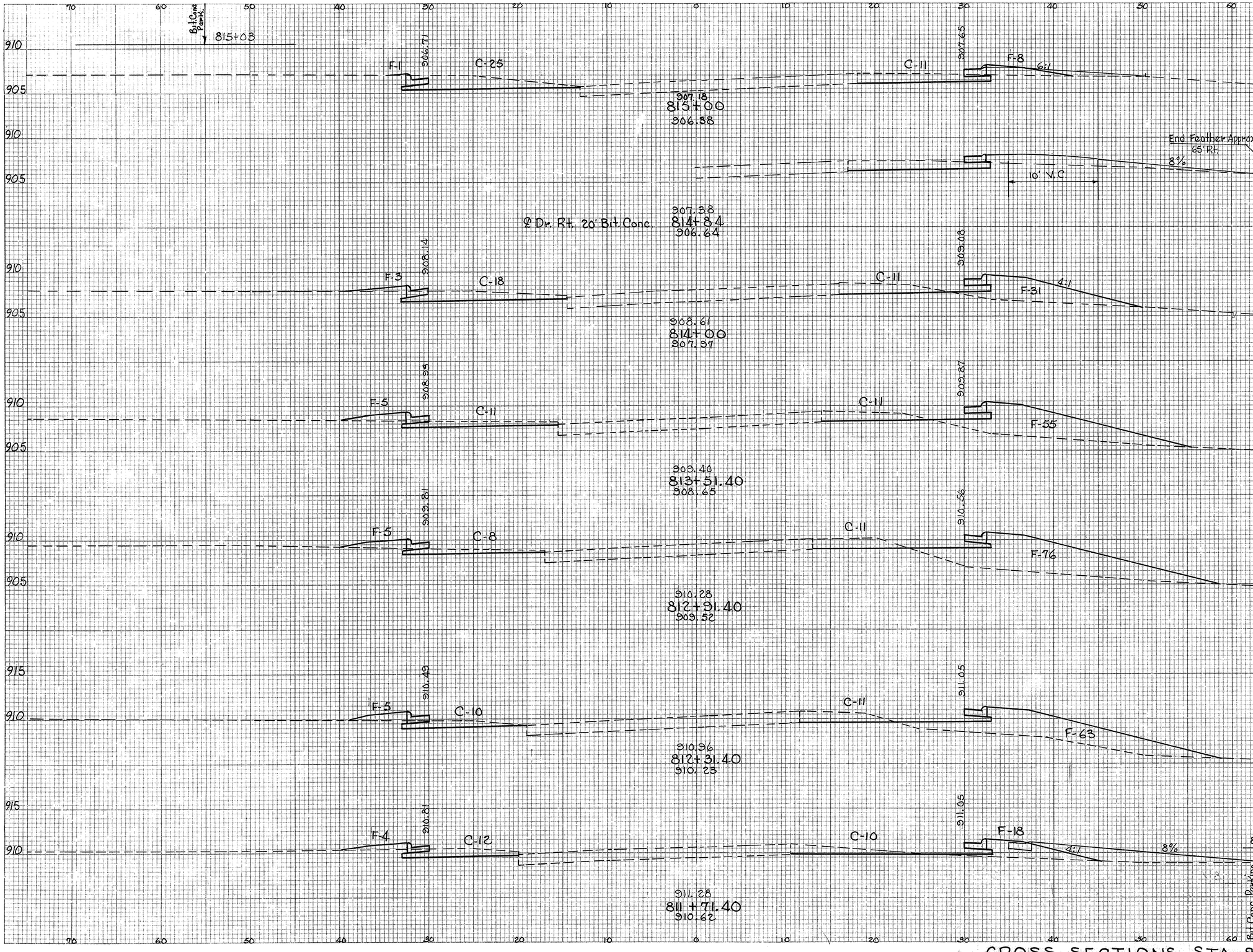
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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TRU-422-(14.70)-(16.38)

CROSS SECTION SHEET

	BY	DATE
SURVEYED	EAES	3-15-69
PLOTTED	R.L.M.	3-16-69
CHECKED	K.W.	10-16-70
TEST DATA	R.S.	3-10-70
DESIGNED	K.W.	3-31-71
ENG. AREAS		
DRAWN		
CHECKED	D.A.P.	4/27/68
	K.W.	10-16-70
	F.J.P.	4-1-71



Seeding		End Area		Co. Yds.	
L.F.	S.Y.	Cut	Fill	Exc.	Emb.
16		36	9		
				(0)	(5)
	256			120	80
30		29	34		
	175			46	85
35		22	60		
	253			46	157
41		19	81		
	263			44	166
38		21	68		
	206			48	100
24		22	22		
103				69	30
				(0)	(4)
17		40	5		

C.Y.	C.Y.	S.Y.
637	643	1475

Excavation
Embankment
Seeding

CROSS SECTIONS STA. 811+71.40 TO STA. 815+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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TRU-422-(14.70)-(16.38)

CROSS SECTION SHEET	BY	DATE	CHECKED BY	DATE
SURVEYED	F.A&S.J.	2-16-69	R.S.	10-14-69
PLOTTED	K.W.	2-17-69		
TEMPLATE	R.L.M.	10-15-70	K.W.	10-19-70
INKED	K.W.	8-10-70	R.S.	8-10-70
END AREAS	R.S.	8-31-71	K.W.	4-1-71
VOLUME TOTALS	K.W.		E.J.P.	

	Seeding	End Area		Cu. Yds	
	L.F.	S.Y.	Cut	Fill	Exc.	Emb.
	8		41	5		
+30 Dr. Lt.					(4)	(0)
		156			172	20
+55 Dr. Rt.					(4)	(0)
			20	52	6	
+72 Dr. Lt.		172			170	22
					(12)	(0)
+80 Dr. Rt.					(0)	(0)
			11	40	6	
		150			141	28
815+44 Dr. Lt.					(110)	(0)
			16	36	9	

CROSS SECTIONS STA. 816+00 TO STA. 818+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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TRU-422-(14.70)(16.38)

CROSS SECTION SHEET

	BY	DATE	CHECKED BY	DATE
SURVEYED	EA&SJ	2-14-69		
PLOTTED	KW	2-17-69	R.S.	10-14-69
TEMPLATE	R.L.M.			
PLOTTED	KW	10-19-70		
END AREAS	R.S.	8-10-70	KW	10-19-70
VOLUME TOTALS	KW	3-31-71	FJP	4-1-71

End Feather Approx. 45' Lt.

Bituminous Concrete Parking Area

819+38

2%

Conc. F-4

896.55

C-13

2 Dr Rt. 98' Bit Conc.

896.32
821+40
895.50
2 Dr. Lt. 50' Bit. Conc.

End Feather Approx. 50' Rt.

8%

896.63
821+15
895.95

897.61

1"/ft Conc. F-8

C-8

See General Note

+40 Dr. Lt.

+15 Dr. Rt.

897.08
820+87.09
896.34

Conc. F-3

897.80

C-19

C-18

898.82

1"/ft Conc. F-8

898.31
820+00
897.67

End Feather Approx. 45' Lt.

2%

2 Dr Lt. Bit Conc. 819+57
898.42

End Feather Approx. 50' Rt. Along ℄

6%

+57 Dr. Lt.

+18 Dr. Rt.

899.63
819+18
898.98
2 Dr. Rt. Bit. Conc.

899.50

F-3

C-19

C-14

900.50

1"/ft 6:1 F-9

900.00
819+00
899.35

End Feather Approx. 55' Rt. Along ℄

6%

+64 Dr. Rt.

2 Dr. Rt. 34' Bit. Conc.

800.66
818+64
900.08

End Drive Constr. Approx. 44' Lt. Along ℄

4%

801.34
818+27
900.66
2 Dr. Lt. 10" Gravel

Sta. 818+00

	Seeding		End Area		Cu. Yds	
	L.F.	S.Y.	Cut	Fill	Exc.	Emb.
+40 Dr. Lt.					(1)	(0)
+15 Dr. Rt.					(2)	(2)
	0		21	12		
		0			93	37
	0		37	11		
		117			130	43
+57 Dr. Lt.					(0)	(0)
+18 Dr. Rt.					(0)	(0)
	21		33	12		
+64 Dr. Rt.					(0)	(3)
		161			137	31
+27 Dr. Lt.					(4)	(1)
	8		41	5		

	C.Y.
Excavation	620
Embankment	159
Seeding	468
	S.Y.

CROSS SECTIONS STA. 818+27 TO STA. 821+41

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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TRU-422-(14.70)-(16.38)

CROSS SECTION SHEET

BY	DATE
F.T.	8-21-69
Plotted K.W.	9-18-69
Template R.L.M.	10-19-70
K.W.	8-10-70
R.S.	3-31-71
K.W.	
F.J.P.	10-19-70
	4-1-71

70 60 50 40 30 20 10 0 10 20 30 40 50 60 70

895 890

End Drive Constr
Approx 52' Lt.
6%

891.40
824+21
891.03
℄ Dr. Lt. 9° Skew

+21 Dr Lt

F-1
891.55
C-24

C-28
891.55
End Feather
Approx 45' Rt
8%

892.08
823+87.09
891.66

End Feather
Approx 45' Rt
8%

+87 Dr Rt

F-1
892.69
C-25

℄ Dr. Lt. 43° Bit Conc.

892.12
823+87
891.69

C-25
892.90
Conc.
F-4

893.22
823+27.09
892.57

8%

+09 Dr Rt

893.58
823+09
892.89

℄ Dr. Rt. 40° Bit Conc.

F-4
893.77
C-17

C-35
894.19
F-7
4:1

894.30
822+67.09
893.64

End Feather
Approx. 49' Rt
10%

+21 Dr Rt

F-6
895.82
C-15

C-22
895.45
F-8
4:1

895.35
822+07.09
894.72

STA 822+00

821+74
End Feather
Approx 45' Lt.
4%

F-3
895.71
C-18

C-27
896.55
F-5
4:1

896.24
821+47.09
895.49

Sta. 820+87.09

Bit. Conc. Pav't. Area

	Seeding		End Area		Co. Yds.	
	L.F.	S.Y.	Cut	Fill	Exc.	Emb.
					(6)	(0)
	5		52	1		
		37			113	7
					(0)	(0)
	6		50	5		
		83			113	18
	19		52	11		
		133			73	53
					(3)	(0)
	21		14	37		
		103			65	50
	10		45	8		
		34			73	22
	0		21	12		

CROSS SECTIONS STA. 821+47.09 TO STA 824+21

FED. RD DIVISION	STATE	PROJECT	
2	OHIO		

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TRU-422-(14.70)(16.38)

	DATE
SURVEYED BY	F.T. 8-21-69
PLOTTED	R.W. 9-18-69
TE & DATE	R.L.M. 10-15-69
CHECKED BY	K.W. 10-19-70
DATE	R.S. 8-10-70
END AREA & VOLUME TOTALS	K.W. 5-31-71
	K.W. 10-19-70
	F.J.P. 4-1-71

CROSS SECTION SHEET

MATCH LINE

C-23

887.52
826+00 ℄ HEATON NORTH RD. (RT)
887.29

MATCH LINE

Sta 825+77.12

888.05
℄ HEATON NORTH RD. (LT) 825 + 77.12
887.80

End Drive Constr.
Approx 45' Rt.

+5%

Dr. +07 Rt.

℄ Dr. Rt. Bit. Conc. 825+07

+07 Dr. Rt.

C-3 889.18 C-33

C-30 889.16 C-1

889.70
825+07
889.43

889.77 C-36

C-35 889.77

890.30
824+76.55
890.05

End Feather
Approx 43.5' Rt.

+31 Dr. Rt.

℄ Dr. Rt. Bit. Conc. 891.10
824+31
890.90

Sta. 823+87.09

Seeding	End Area		Co. Yds	
L.F.	S.Y.	Cut	Fill	Exc.	Emb.
0		23	0		
	0			10	0
0		0	0		
	70			89	0
				(8)	(0)
18		67	0		
	49			180	0
11		71	0		
	81			204	1
				(0)	(0)
5		52	1		

	C.Y.
Excavation	1065
Embankment	136
Seeding	654
	S.Y.

CROSS SECTIONS STA. 824+32.5 TO STA 826+00

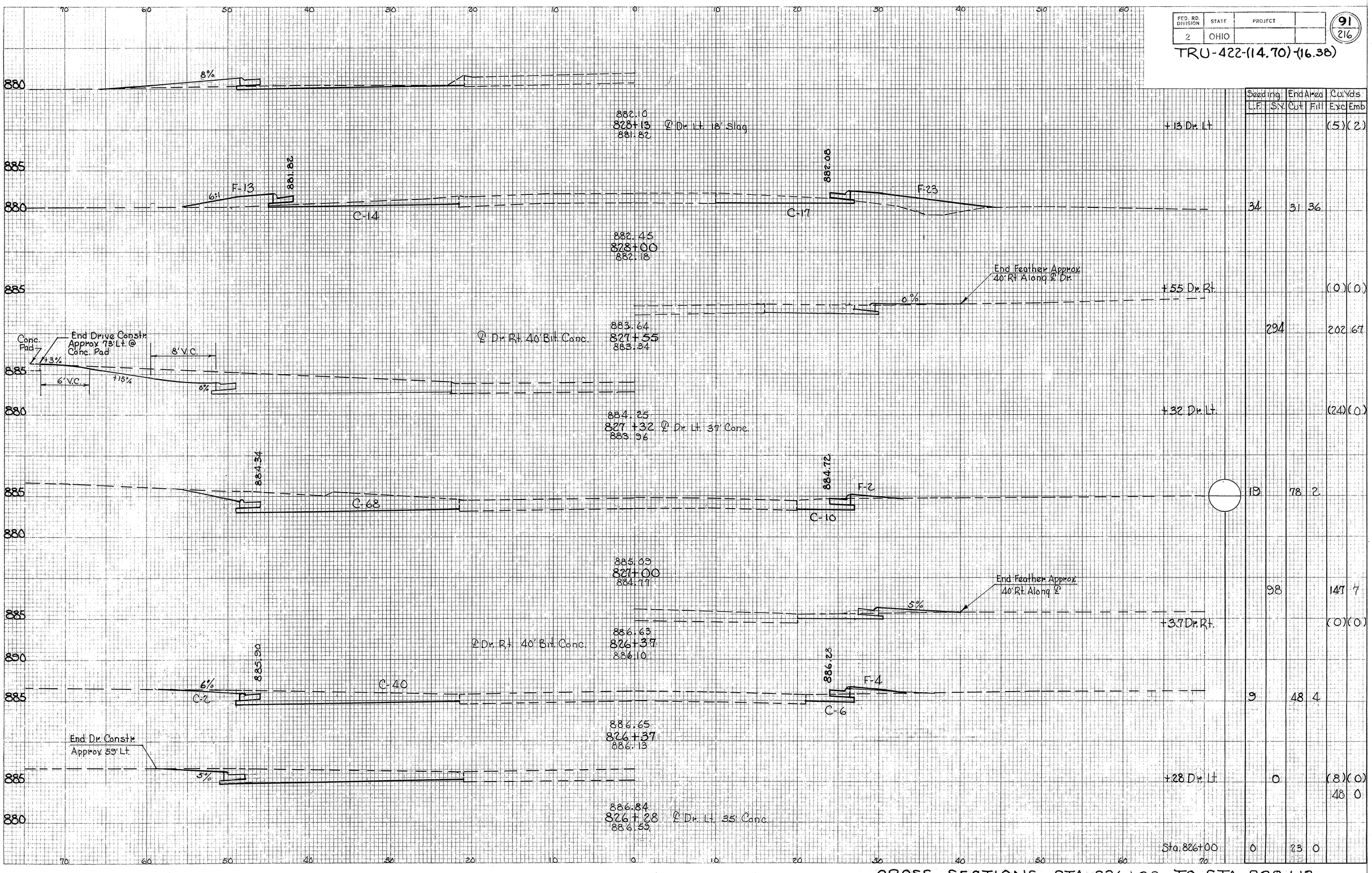
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

91/216

TRU-422-(14.70)-(16.38)

CROSS SECTION SHEET

	BY	DATE	CHECKED BY	DATE
SURVEYED	F.T.	8-21-69		
PLOTTED	K.W.	9-18-69	R.S.	10-16-69
IP & DATE	R.L.M.	10-19-70		
AREA	K.W.	10-19-70	K.W.	3-24-71
END AREA	K.W.	3-31-71	P.J.P.	4-1-71
VOLUME TOTALS				



Seeding		End Area		Cu. Yds	
L.F.	S.Y.	Cut	Fill	Exc	Emb
				(5)	(2)
34		31	36		
294				202	69
18		78	2		
98				147	7
				(0)	(0)
9		48	4		
				(8)	(0)
				48	0
0		23	0		

CROSS SECTIONS STA. 826+28 TO STA 828+13

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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TRU-422-(14.70)-(16.38)

CROSS SECTION SHEET	DATE	CHECKED BY	DATE
SURVEYED	F.T.	K.W.	8/25-6-9
PLOTTED		R.S.	9-26-69
DESIGNED	K.W.		10-15-70
TRACED	R.L.M.	K.W.	8-10-70
CHECKED	K.W.	R.S.	3-31-71
QUANTITIES	K.W.	F.J.P.	4-1-71

End Feather Approximately 57' Lt. Along ℄

875.32 — F-10 — 9% — C-9 — 874.40 — 831+58 — 873.82 — C-2 — 873.87 — F-67 — +76 Or. Lt.

* See General Note

Conc. 7 — 874.70 — F-4 — C-16 — 875.34 — 831+00 — 874.82 — C-4 — 874.81 — F-69 — Bit. Conc. Parking

End Feather Approximately 67' Lt. Along ℄

875.10 — 8% — 875.60 — 830+84 ℄ Dr. Lt. 36' Bit. Conc. — 875.13 — +84 Dr. Lt.

End Feather Approximately 75' Lt. Along

876.66 — 10% — 4:1 — F-15 — C-11 — C-12 — 876.85 — F-66 — Bit. Conc. Parking — +00 Dr. Lt.

877.38 — 830+00 ℄ Dr. Lt. 20' Bit. Conc. — 876.93

879.11 — 4:1 — F-3 — C-32 — C-12 — 879.46 — 8:1 — F-39

879.83 — 829+00 — 879.54

880.50 — 828+75 ℄ Dr. Lt. 18' Slag (ABANDONED) — 880.15

Sta 828+00

	Seeding		End Area		Cu. Yds.	
	L.F.	S.Y.	Cut	Fill	Exc.	Emb.
					(0)	(3)
	16		11	77		
		90			33	161
	12		20	73		
		217			80	267
					(0)	(3)
	27		23	71		
					(0)	(4)
		333			124	209
	33		44	42		
		372			139	144
	34		31	36		

	C.Y.	C.Y.	S.Y.
Excavation	646	924	1369
Embankment			
Seeding			

CROSS SECTIONS STA. 828+75 TO STA 831+58

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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TRU-422-(14.70)-(16.38)

CROSS SECTION SHEET

BY	DATE	CHECKED BY	DATE
EAGSJ	5-16-69		
KW	5-26-69	R.S.	10-17-69
RLM			
KW	10-19-70	KW	10-19-70
RS	8-10-70		
KW	3-31-71	FJP	4-1-71

SURVEYED
PLOTTED
TIE & ATE
DRAWN
END AREA
VOLUME CHECKED

875
870

F-4 871.71 C-26 872.27 835+00 872.00 C-17 871.30 4:1 F-87 2:1 C-10 864.1 2:1

875
870

F-2 871.88 C-28 C-18 872.07 872.44 834+00 872.20 4:1 F-75 C-18 865.05 2:1 2:1 2.5'

+45 Dr. Lt.

C.Y. C.Y. S.Y.
979 1611 2449
Excavation Embankment Seeding

875
870

End Drive Constr. Approx 60' Lt.
8% 872.14

872.70 833+40 872.34

+40 Dr. Lt.

875
870

F-19 872.37 6:1 C-13 C-9 872.56 F-103 872.93 833+00 872.50

+60 Dr. Lt.

875
870

End Feather Approx. 55' Lt. Along ℄
8% Conc. 7 873.85 *See General Note F-4 C-17 C-14 F-86 873.41 832+41 872.92

+14 Dr. Lt.

End Dr. Constr. Approx. 48' Rt.

870

+09 Dr. Rt.

℄ Dr. Rt. 40' Conc. 873.74 832+09 873.35

875
870

End Feather Approx. 55' Lt. Along ℄
6:1 F-5 873.28 C-26 C-13 End Dr. Constr. Approx. 48' Rt.

873.84 832+00 873.35

Sta. 831+58

70 60 50 40 30 20 10 0 10 20 30 40 50 60 70

Seeding L.F.	Seeding S.Y.	End Area Cut	End Area Fill	Co. Yds. Exc	Co. Yds. Emb
56		53	91		
	583			217	311
				(7)	(0)
49		64	77		
	511			159	369
				(3)	(4)
46		22	122		
	224			98	232
				(0)	(0)
22		31	90		
				(0)	(3)
	75			53	72
				(4)	(0)
11		39	5		
	63			39	64
16		11	77		

CROSS SECTIONS STA. 832+00 TO STA. 835+00

FED. RD DIVISION	STATE	PROJECT	
2	OHIO		

94/216

TRU-422-(14.70)-(16.38)

CROSS SECTION SHEET	BY	DATE	CHECKED BY	DATE
SURVEYED	EAGS	2-16-65	B.S.	10-15-69
REVISED	K.W.	9-26-65		
	R.L.M.			
	K.W.	10-19-70	K.W.	10-19-70
LAND AREAS	B.S.	8-10-70	K.W.	1-5-71
MACHINE TOTALS	L.A.	7-1-71		

End Guard Rail Lt
Sta. 839+77.63

End Guard Rail Rt
Sta. 839+43.96

℄ Constr 6.0'

C-51

F-92

871.46

839+29
871.00

F-135

2:1

BRIDGE LIMITS

839+58 BACK

℄ Constr 6.0'

BF-8

871.09

4:1

C-22

871.56

839+00
871.25

C-21

871.03

3:1

F-104

4:1

C-15

861.0

2:1

Begin Guard Rail Lt
Sta. 838+52.58

℄ Constr. 4.5'

F-2

871.35

C-23

871.84

838+00
871.51

C-15

871.39

Begin Guard Rail Rt
Sta. 838+18.56

F-11

4:1

+52 Dr. Lt.

C-65

2:1

861.8

+80 Dr Lt.

℄ Constr. 3.0'

F-1

871.38

C-25

872.02

837+00
871.65

C-15

871.59

F-79

4:1

2:1

C-23

862.60

+20 Dr Lt.

℄ Constr. 1.5'

F-1

871.65

C-27

872.19

836+00
871.87

+00 No 3-A CB
Gr. El. 871.47
F.L. El. 867.40

C-15

871.80

F-81

4:1

Outlet F.L.
866.92

P-8 24 L.F. 12" Type C"
@ 2.00%

2:1

C-15

863.4

Sta 835+00

	Seeding		End Area		Cu. Yds	
	L.F.	S.Y.	Cut	Fill	Exc.	Emb
	55		51	227		
		177			55	298
	55		51	227		
		189			59	182
	62		58	112		
		678			298	243
					(5)	(0)
	60		103	19		
		589			303	183
					(7)	(0)
	46		64	80		
		500			226	300
					(6)	(0)
	44		58	82		
		556			206	320
	56		53	91		

	C.Y.	C.Y.	S.Y.
Excavation	838		
Embankment	1037		
Seeding	1387		

CROSS SECTIONS STA. 836+00 TO STA. 839+29

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

95/216

TRU-422-(14.70)-(16.38)

	BY	DATE
SURVEYED	E.A.S.J.	5-16-69
PLOTTED	K.W.	5-26-69
DESIGNED	K.L.M.	10-15-70
DRAWN	K.W.	8-10-70
CHECKED	R.S.	7-1-71
LAND AREAS	L.A.	
ROADWAY TOTALS		

CROSS SECTION SHEET — REVISED BY — DATE — 10-15-70 — K.W. — 7-5-71

70 60 50 40 30 20 10 0 10 20 30 40 50 60 70

870 / 865

* See General Note

F-5 — Conc. — 869.56 — C-1 — C-15 — ℄ Constr. 5.75' — C-5 — 869.62 — F-19 — 6:1

870.08

842+50
869.80

* See General Note — Conc.

870.25
842+25
870.02

End Feather Approx. 60 Lt. — 10% — 6:1 — F-16 — 869.82 — C-13 — ℄ Constr. 4.5' — C-7 — 869.86 — F-16 — 6:1

870.31
842+00
870.02

8%

841+70
870.83

End Feather Approx. 70' Lt along ℄ Drive

End Guard Rail Rt
841+43.06

Ahead Only F-15 — 4:1 — 870.30 — C-13 — ℄ Constr. 6.00' — 870.30 — 4:1 — F-40

2:1 Normal — F-6 — 870.77 — C-13

841+00
870.40

Abutment

Begin Guard Rail Lt
Sta. 841+01.63

840+82.97 AHEAD

℄ Constr. 6.00' — 4:1

870.86

840+78
870.46

2:1 Normal — Abutment

℄ Constr. 6.00'

Begin Guard Rail Rt
840+68.06

BRIDGE LIMITS

871.20

840+00 BRIDGE
870.88

	Seeding L.F.	Seeding S.Y.	End Area Cut	End Area Fill	Co. Yds. Exc.	Co. Yds. Emb.
	19		21	24		
		100			38	52
	17		20	32		
		289			85	172
+70 Dr. Lt.					(2)	(2)
Ahead	35		26	61		
Back	29		26	46		
		65			18	17
	40		33	54		

CROSS SECTIONS STA. 840+00 TO STA 842+50

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

96
216

TRU-422-(14.70)-(16.38)

CROSS SECTION SHEET

BY	DATE	REVISED BY	DATE
EAS ET	2-25-69	R.S.	10-15-69		7-2-71
K.W.	3-29-69			KW	7-5-71
DESIGNED				KW	7-1-71
END AREA				LA	7-1-71
VOLUME COMPUTED				LA	

End Dr. Approx. 45' Lt. — Prop. R/W — Ex R/W — 868.15 — F-2 — C-10

863.93
845+00
868.73

Dr. Lt. 844+72
30° L. F.

End Feather Approx 45' Lt. Along ℄ — 8%

869.06
844+44
868.85
℄ Dr. Lt. 31' Bit. Conc.

SUSPEND PROJECT
STA 844+07.5

℄ Constr. — 1.5' — 868.58 — Conc. — C-1 — C-16 — 868.30 — F-8 — C-7

869.31
844+00
869.03

End Feather Approx 36' Rt. — 8%

869.45
843+76
869.20
℄ Dr. Rt. 36' Bit. Conc.

End Feather Approx. 58' Lt. Along ℄ — 8%

869.51
843+63
869.26
℄ Dr. Lt. 32' Bit. Conc.

End Feather Approx. 50' Rt.

869.78
843+13
869.51
℄ Dr. Rt. 36' Bit. Conc.

℄ Constr. — 3.0' — End Feather Approx 55' Lt. Along ℄ — 8% — F-9 — 869.29 — C-14 — 869.30 — F-12 — C-4

869.81
843+00
869.51
℄ Dr. Lt.

	Seeding L.F.	Seeding S.Y.	End Area Cut	End Area Fill	Cu.Yds. Exc.	Cu.Yds. Emb.
	7		10	2		
+72 Dr. Lt.					(0)	(0)
		29			38	3
+44 Dr. Lt.					(0)	(0)
844+25 Ahead	0		17	0		
844+25 Back	12		0	0		
		33			10	4
	12		24	8		
+76 Dr. Rt.					(0)	(1)
		144			80	48
+63 Dr. Lt.					(0)	(2)
+13 Dr. Rt.					(0)	(2)
	14		19	18		
		92			37	39
+00 Dr. Lt.					(0)	(0)
Sta 842+50	19		21	24		

c.y. 288 158 517 s.y.

EXCAVATION
EMBANKMENT
SEEDING

CROSS SECTIONS STA. 843+00 TO STA. 845+00

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

97
216

TRU-422-(14.70)-(16.38)

C.H. 8-25-70
V.S. 8-26-70
K.W. 6-30-71
L.A. 7-1-71
K.W. 7-1-71
L.A. 7-5-71

WEST ENTRANCE TO EASTWOOD MALL

ENTRANCE TO EASTWOOD MALL & STA. 847+16

847+50
868.28

SUSPEND WIDENING & RESURFACING
STA 846+88

846+85
868.44

846+63
868.46

Ex. R/W 867.00
C-28

846+50
868.48

867.39
C-15

846+35
868.50

F-1 867.79 C-7

End Dr. Approx. 44' LT

846+23
868.50

DRIVE 846+09 LT
30° L.R.
867.81

846+00
868.52

F-1 867.92 C-15

845+70
868.65

	Seeding L.F.	Seeding S.Y.	End Area Cut	End Area Fill	Cu. Yds. Exc.	Cu. Yds. Emb
STA 846+63			0	0	0	
		3			7	0
	4		28	0		
		7			12	0
	4		15	0		
		7			5	1
	7		7	1		
		44			22	2
+09 DR LT.					(7)	(0)
	8		15	1		
		58			32	4
Sta. 845+00	7		10	2		

CROSS SECTIONS STA. 845+70 TO STA 847+50

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

98
216

TRU-422-(14.70)(16.38)

Seeding		End Area		Cu Yds	
L.F.	S.Y.	Cut	Fill	Exc	Emb
11		19	5		
	23			22	4
1		15	1		
	1			9	3
0		16	0		
	0			2	0
0		0	0		

STA 863+81 ZEA

70 60 50 40 30 20 10 0 10 20 30 40 50 60 70

880
875

F-5 C-19

864+35
877.96

Bituminous Concrete Parking Area

880
875

F-17 C-15

864+00
877.62

KW 7-7-71
RLM 8-12-71
KW L.A. 6-29-71
KW L.P. R.P.-2

880

C-16

870

863+85
877.45

RESUME WIDENING AND RE-SURFACING STA 863+81

880
875

863+61
877.24

70 60 50 40 30 20 10 0 10 20 30 40 50 60 70

CROSS SECTIONS STA 863+61 TO STA 864+35

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

99
216

TRU-422-(14.70)(16.38)

CROSS SECTION SHEET	BY	DATE	CHECKED BY	DATE
SURVEYED	E.A.&F.T.	2/26/65		
PLOTTED	K.W.	9/30/65	R.S.	10-15-69
TRACED	F.M.L.	6-70		
INKED	F.M.L.	7-7-71		
END AREAS	K.W.	8-12-71	L.P.	8-18-71
VOLUME TOTALS	K.W.	8-12-71		

70 60 50 40 30 20 10 0 10 20 30 40 50 60 70

Bituminous Concrete Parking Area

885
880
875

F-4 C-24 C-14 F-4 6:1
884.34
869+00
884.03

End Feather
50' Lt Along
2 Dr.

+77 Dr. Lt.

868+77 2 Dr. Lt.
883.74

F-3 C-31 C-8 F-4
881.44
867+00
881.16

F-2 C-31 F-7 6:1 C-6
880.13
866+00
879.86

F-2 C-19 F-10 C-3
878.98
865+00
878.70

864+77.43
878.38

F-4 C-15 F-3 6:1 C-5
878.62
864+67
878.30

STA 864+35

Seeding L.F.	Seeding S.Y.	End Area Cut	End Area Fill	Cu. Yds. Exc.	Cu. Yds. Emb.
17		38	8		
	183			150	19
				(4)	(0)
16		43	2		
	183			152	17
17		39	7		
	200			141	30
19		37	9		
	233			109	39
23		22	12		
	84			26	12
83		20	7		
	60			23	11
11		19	5		

	C.Y.
EXCAVATION	332
EMBANKMENT	55
SEEDING	601
	S.Y.

CROSS SECTIONS STA. 864+67 TO STA. 869+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

100
216

TRU-422-(14.70)-(16.38)

CROSS SECTION SHEET

	DATE	CHECKED BY	DATE
SURVEYED BY			
COMPUTED BY	E.A.&F.T. 9/25/62	R.S.	10-15-69
PLOTTED BY	K.W. 9/30/69		
TRACED BY	FHL 6-70		
INKED	D.R.P. 10-20-98		
END AREAS	K.W. 7-7-71	L.P.	P.S.P. 2-8-21
VOLUME TOTALS	K.W. 8-12-71		

70 60 50 40 30 20 10 0 10 20 30 40 50 60 70

895 / 890 / 885 / 880

4% End Feather Approx. 42' Rt.

892.47 ℄ Conc. F-1

Bituminous Concrete Parking Area

893.55 875+24 893.23 ℄ Dr. Rt. 18" Bit. Conc.

F-4 C-29 C-24

893.14 875+00 892.82

+24 ℄ Dr. Rt.

892.44 874+60 892.12 ℄ Dr. Rt. 18" Bit. Conc.

+60 ℄ Dr. Rt.

F-3 C-32 C-28 F-1

891.36 874+00 891.04

873+56

F-3 C-33 C-24 F-3 6%

889.62 873+00 889.28

End Feather Approx. 65' Rt. Along ℄ 6%

+79 Dr. Rt. +52 Dr. Lt.

End Feather 50' Lt. on ℄

889.3 872+79 ℄ Dr. Rt. 888.98

872+52 ℄ Dr. Lt. 888.53

F-1 C-31 C-23 F-1 Conc. End Feather 45° Rt.

888.15 872+00 887.82 Dr. Rt. (Relocated to Sta 872+79)

F-2 C-35 C-17 Conc. F-2

886.85 871+00 886.55

Conc.

870+78 Dr. Rt. (Relocated to Sta. 869+93) 886.31

End Feather Appr. 65' Rt. Along ℄ +93 DR. RT.

885.58 Drive 869+93 Rt. 885.22

F-3 C-30 C-16 F-5 6%

885.67 870+00 885.31

STA 869+00

Station	Seeding L.F.	Seeding S.Y.	End Area Cut	End Area Fill	Cu. Yds Exc.	Cu. Yds Emb.
	10		53	5	(4)	(0)
		133			209	17
					(4)	(0)
	14		60	4		
		172			217	19
	17		57	6		
		94			206	15
					(3)	(0)
					(0)	(0)
0 +			54	2		
		39			196	11
7 +			52	4		
		133			181	22
					(0)	(0)
	17		46	8		
		189			156	30
	17		38	8		

	C.Y.	C.Y.	S.Y.
Excavation	833	39	727
Embankment			
Seeding			

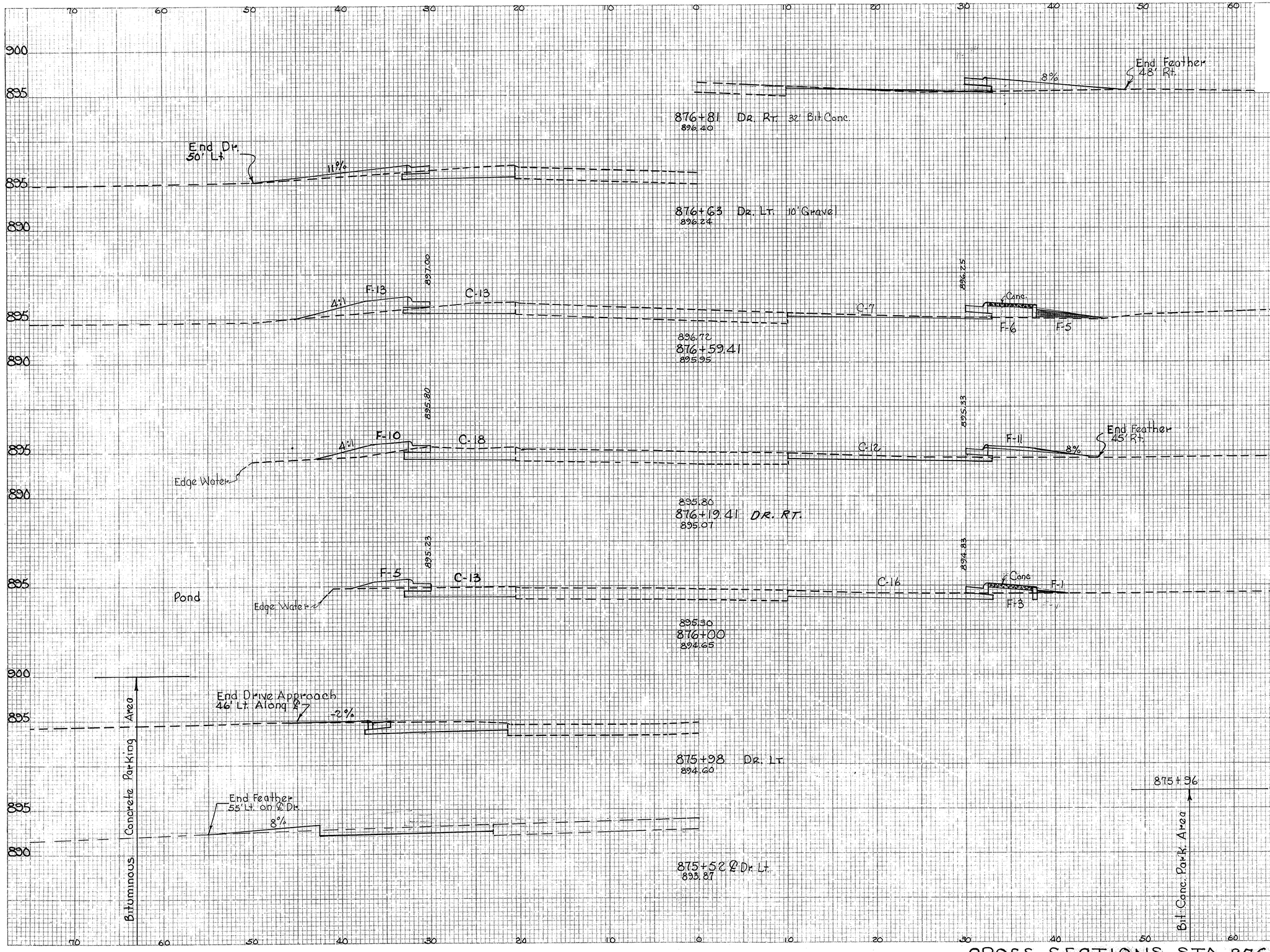
CROSS SECTIONS STA. 870+00 TO STA 875+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

101
216

TRU-422-(14.70)-(16.38)

CROSS SECTION SHEET	DATE	CHECKED BY	DATE
SURVEYED BY	E.A.		
	5-2965	R.S.	10-11-69
PLOTTED BY	K.W.		
	5-30-69	C.T.O.	
TIED TO ATE	F.M.L.		
	6-7-10		
ENGINEERED	D.B.P.		
	10-20-69	L.A.	
END AREAS	K.W.		
	9-7-71		
VOLUME TOTALS	K.W.		
	8-12-71		



	Seeding		End Area		Cu.Yds.	
	L.F.	S.Y.	Cut	Fill	Exc.	Emb.
+81 Dr. Rt.					(0)	(4)
+63 Dr. Lt.					(6)	(2)
	25		20	24		
		82			37	33
+ 19.41 Dr. Rt.					(0)	(3)
	12		30	21		
		28			21	11
	14		29	9		
		133			152	26
+98 Dr. Lt.					(6)	(0)
+ 52 Dr. Lt.					(2)	(0)
Sta. 875+00	10		53	5		

	C.Y.	S.Y.
Excavation	887	
Embankment	184	
Seeding	780	

CROSS SECTIONS STA. 876+00 TO STA 876+59.41

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

102
216

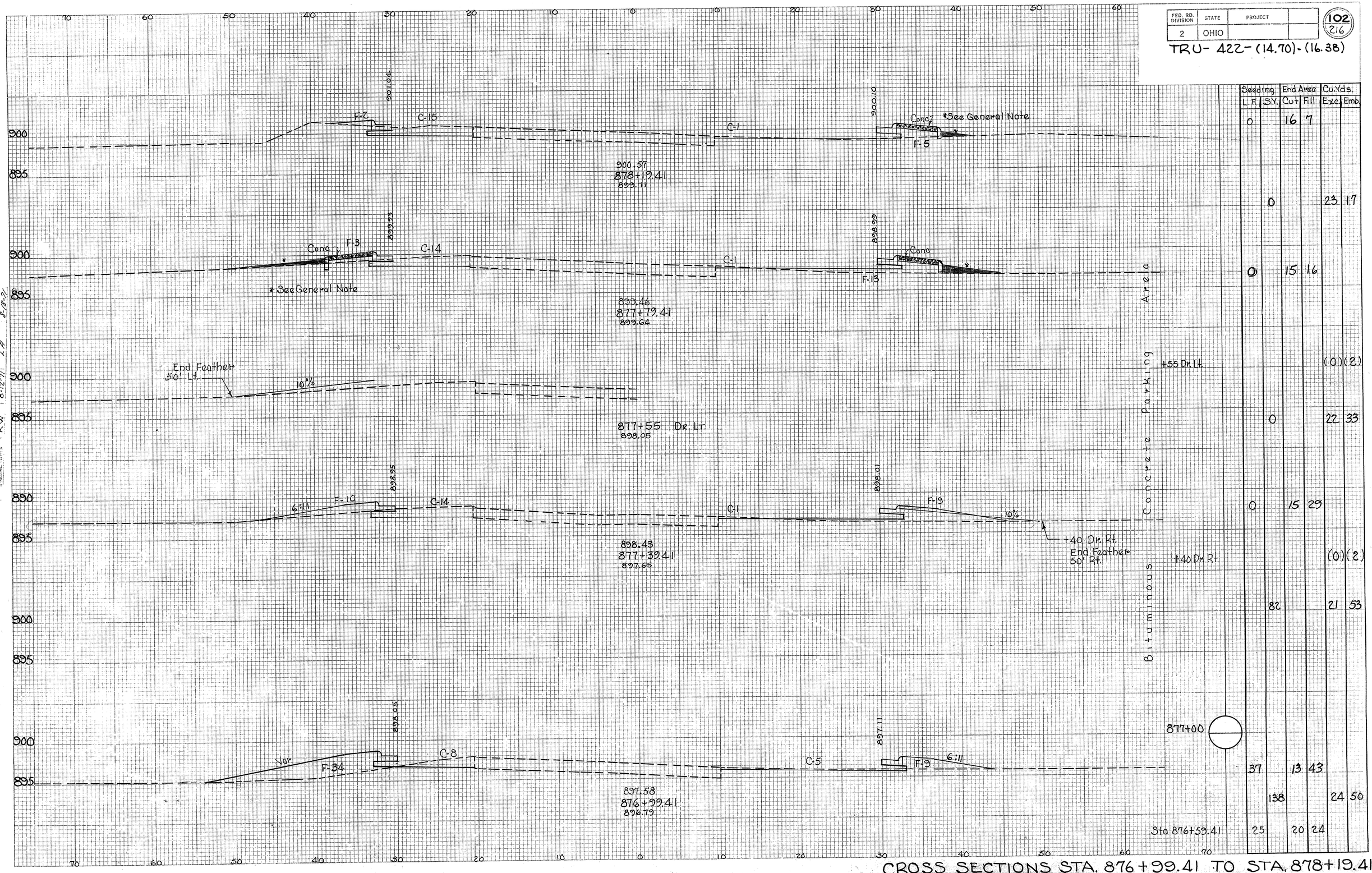
TRU-422-(14.70)-(16.38)

CROSS SECTION SHEET

	BY	DATE
SURVEYED	E.A.	9-20-69
PLOTTED	K.W.	9-30-69
TIE & LAYOUT	F.M.L.	6-29-71
DRAWN	K.W.	6-30-71
CHKD. QUANTITIES	K.W.	8-12-71
CHKD. ALIGN. & PROF.		

CHECKED BY: R.S. 10-5-69; J.M.H. 1-22-71; L.S. 8-18-71

Seeding L.F.	Seeding S.Y.	End Area Cut	End Area Fill	Cu.Yds. Exc.	Cu.Yds. Emb.
0		16	7		
	0			23	17
0		15	16		
					(0) (2)
	0			22	33
0		15	29		
					(0) (2)
	82			21	53
37		13	43		
	138			24	50
25		20	24		



CROSS SECTIONS STA. 876+99.41 TO STA. 878+19.41

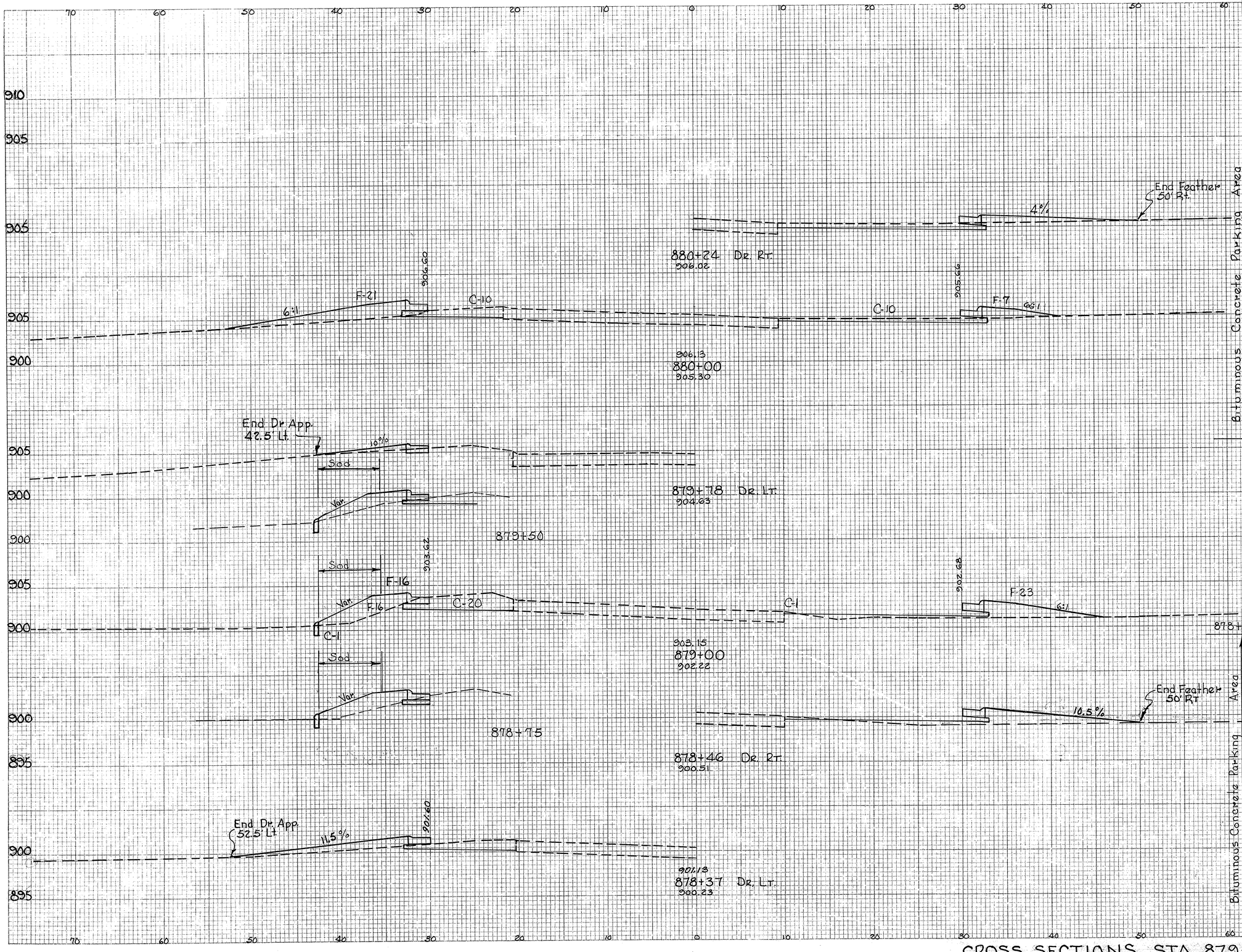
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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TRU-422-(14.70)-(16.38)

CROSS SECTION SHEET

	BY	DATE	CHECKED BY	DATE
SURVEYED	E.A.	9-29-69		
PLOTTED	K.W.	9-30-69	R.S.	10-15-69
H. & V. SCALE	FML	6-70		
DRAWN	D.R.P.	10-29-69		
END AREA	K.W.	8-7-71		
VOLUME TOTALS	K.W.	8-12-71	J.A.	8-12-71



	Seeding	End Area		Cu. Yds.	
	L.F.	S.Y.	Cut	Fill	Exc.	Emb.
+24 Dr. Rt.					(0)	(2)
	33		20	28		
+78 Dr. Lt.		300			78	124
					(4)	(1)
Excavation 374						
Embankment 382						
Seeding 700						
	21		22	39		
+46 Dr. Rt.					(0)	(4)
	54				56	69
+37 Dr. Lt.					(0)	(3)
Sta. 878+19.41	0		16	7		

CROSS SECTIONS STA. 879+00 TO STA. 880+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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TRU-422-(14.70)-(16.38)

CROSS SECTION SHEET

	BY	DATE
SURVEYED	EA. K.W. FMC	3/30/69 10/1/69 6-72
PLOTTED	R.S.	10-14-69
TYPED		
CHECKED	K.V. K.W.	T.T.T. 8-12-71
ENGR.	L.A.	8-20-71
END AREAS		
VOLUME TOTALS		

End Drive
50' Lt.

9%

882+04 Dr Lt
910.50

911.70

C-13

910.76

C-10

F-10

6:1

911.23
882+00
910.42

End Feather
50' Rt

8%

881+75 Dr Rt.
909.96

881+60

End Feather 39' Lt.
Along E Drive

881+35 Dr Lt.
908.94

909.36

F-2

C-13

908.42

C-2

Conc

* See General Note

C-1

F-4

908.89
881+00
908.03

Prop. Drive
Will Match Exist.

Bit. Conc. Parking Area

880+89 Dr. Lt.
907.74

Bituminous Concrete Parking Area

880+60

907.95

F-1

C-13

907.01

C-11

F-4

6:1

907.48
880+46.07
906.60

STA 880+00

	Seeding		End Area		Cu Yds	
	L.F.	S.Y.	Cut	Fill	Exc	Emb
+04 Dr Lt.					(9)	(0)
	19		29	10		
+75 Dr Rt.					(0)	(3)
		106			87	30
+35 Dr Lt.					(0)	(0)
	0		18	6		
		18			44	11
+89 Dr Lt.					(0)	(0)
	6		26	5		
		100			39	28
	33		20	28		

CROSS SECTIONS STA. 880+46.07 TO STA. 882+00

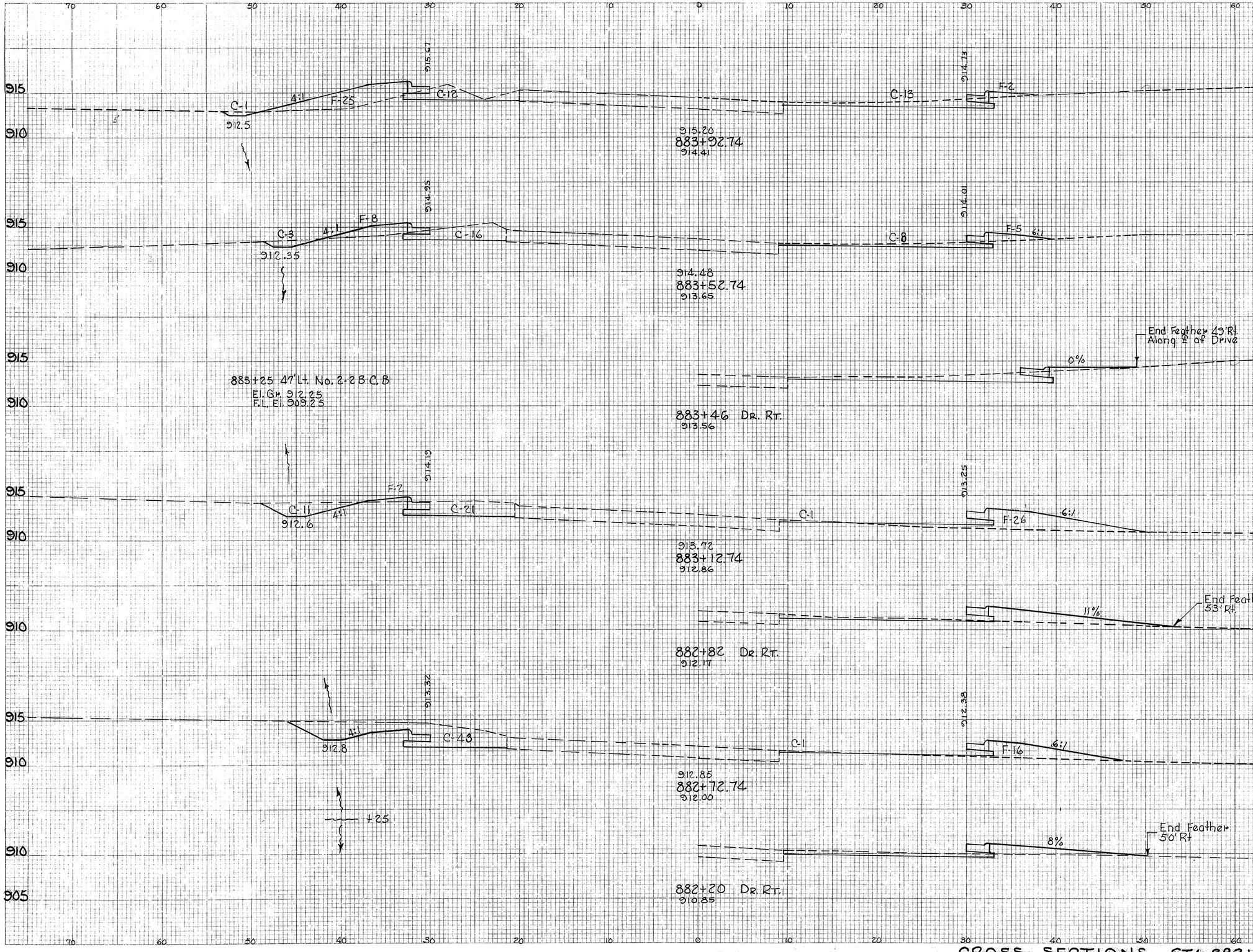
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

105
216

TRU-422-(14.70)-(16.38)

CROSS SECTION SHEET

	BY	DATE	CHECKED BY	DATE
SURVEYED	E.A.	9/30/69	G.R.P.	10-15-69
COMPUTED	K.W.	10/1/69		
PLOTTED	F.M.L.	10-20		
TRACED				
END AREAS	K.W.	7-9-71		
VOLUME TOTALS	K.W.	8-12-71		



EXCAVATION 684 C.Y.
EMBANKMENT 436 C.Y.
SEEDING 2231 S.Y.

	Seeding	End Areas		Cu.Yds.	
	L.F.	S.Y.	Cut	Fill	Exc.	Emb
	30		26	27		
		129			40	30
	28		28	13		
		156			45	30
+46 Dr. Rt.					(1)	(1)
	42		33	28		
+82 Dr. Rt.					(0)	(4)
		169			57	32
	34		44	16		
		214			98	35
+20 Dr. Rt.					(2)	(3)
Sta. 882+00	19		29	10		

CROSS SECTIONS STA. 882+72.74 TO STA. 883+92.74

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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216

TRU-422-(14.70)-(16.38)

End Approach
50' Lt.
5%
8' V.C.
16%
8' V.C.
0%
Area
Bit. Conc. Park.
887+19 Dr Lt.
921.05
F-1
C-19
C-10
11"/ft.
Var.
F-10
End Drive Constr
Approx 42' Lt.
+5%
918.56
921.01
887+00
920.72
920.00
886+50 ℄ Dr Lt.
919.66
Bit. Conc.
F-2
C-18
C-9
11"/ft.
Var.
F-12
919.00
886+00
918.56
916.96
C-12
C-12
MATCH LINE
MATCH LINE
917.10
885+00
916.54
End Feather 40 Rt.
Along ℄ Drive
0%
884+85 Dr. Rt.
916.25
916.64
916.17
C-2
4:1
F-16
C-20
C-19
F-2
914.0
916.64
884+72.74
916.01
916.21
915.46
C-1
4:1
F-23
C-23
C-13
F-2
913.0
915.93
884+32.74
915.21
925
920
915
910

	Seeding		End Area		Cu. Yds.	
	L.F.	S.Y.	Cut	Fill	Exc.	Emb.
+19 Dr Lt.					(14)	(0)
	12		29	11		
		200			113	50
+50 Dr Lt.					(9)	(0)
	24		27	14		
		133			113	30
JOHNNY CAKE RD.		(178)			(11)	(26)
FREDERICK ST.		(765)			(57)	(130)
	0		24	0		
+85 Dr Rt.					(1)	(0)
		33			35	8
	22		41	18		
		118			58	31
	31		37	25		
		136			29	26
Sta 883+92.74	30		26	27		

CROSS SECTION SHEET	BY	DATE	CHECKED BY	DATE
SURVEYED	E.A.	2/30/62		
PLOTTED	K.W.	10/11/62	D.R.P.	10-16-62
IT + CALC.	F.M.L.	6-72		
INKED	K.W.	8-71	JAM	
END AREAS	K.W.	8-12-71	GR	
VOLUME TOTALS				8-8-72

CROSS SECTIONS STA 884+32.74 TO STA 887+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

107
216

TRU-422-(14.70)-(16.38)

CROSS SECTION SHEET

	BY	DATE	CHECKED BY	DATE
SURVEYED	E.A.	5/30/69	D.H.	8-13-71
PLOTTED	K.W.	10/2/69	A.R.P.	
TYPING		6-70	C.S.	
END AREA	FML			
VOLUME TOTALS	K.W.	8-71	JAM	
	K.W.	8-12-71	C.R.	

940
935
930
925
920

892+25
936.39

935.84
892+00
935.43

891+55 Dr. Lt.
933.72

931.75
891+00
931.54

890+85 Dr. Lt.
930.92

890+31 38' Lt.

928.02
890+00
927.79

889+86 Dr. Lt.
927.39

925.27
889+00 Dr. Rt.
924.95

923.09
888+00
922.78

Sta. 889+63
Begin retaining wall

R/W
Drive
C-6
C-19
F-26
End App. 50' Lt. Along 2 Dr.
6%
C-20
C-5
F-22
Bit. Conc. Parking
End Approach 40' Lt.
5%
Area
F-2
C-14
End. Approach 50.5' Lt.
5%
8' V.C.
8' V.C.
14%
0%
Parking
C-24
C-13
F-4
Bit. Conc. Parking
R/W
C-19
F-6
11.9%
8%
End Westerly Approach 77' Rt.
End Easterly Approach 68' Rt.
Bituminous Concrete
C-26
C-10
1"/ft.
2:1
F-10

+55 Dr. Lt.
+85 Dr. Lt.
+86 Dr. Lt.
+00 Dr. Rt.
Sta. 887+00

Excavation	C.Y.	665
Embankment	C.Y.	242
Seeding	S.Y.	566

	Seeding		End Area		Cu.Yds.	
	L.F.	S.Y.	Cut	Fill	Exc.	Emb.
	6		25	26		
					(5)	(0)
	78				93	89
	8		25	22		
					(5)	(0)
	100				96	52
	10		27	6		
					(15)	(0)
	122				130	22
	12		43	6		
					(7)	(10)
	133				163	30
	12		45	10		
	133				137	33
	12		29	11		

CROSS SECTIONS, STA. 888+00 TO STA 892+00

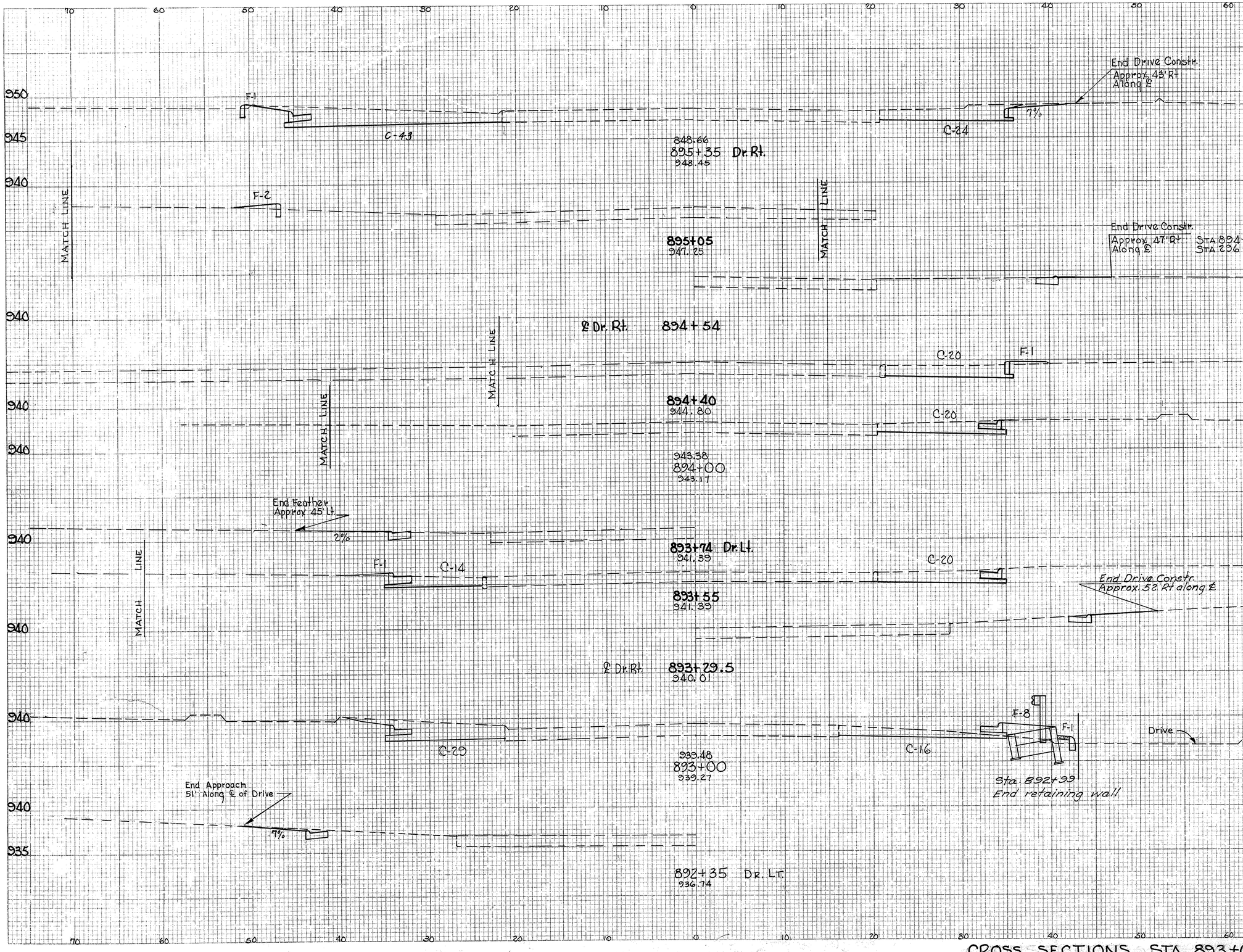
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

108
216

TRU-422-(14.70)-(16.38)

CROSS SECTION SHEET

	BY	DATE	CHECKED BY	DATE
SURVEYED	KWM	8/26/69	J.H.	10-16-69
PLOTTED	KWM	10/2/69	D.R.P.	
15 = 1 GRID	RLM	7-14-71		
SHEET	RW	7-16-71		
END AREA	RW	7-16-71		
VOLUME TOTALS	KWM	8-12-71	GC	8-12-71



	Seeding		End Area		Co. Yds.	
	L.F.	S.Y.	Cut	Fill	Exc.	Emb.
	11		65	1		
		30			36	2
					(0)	(0)
	7		0	2		
		7			0	1
	0		0	0		
		0			18	1
					(0)	(0)
	0		20	1		
		0			30	2
	0		20	1		
		0			45	1
					(7)	(0)
	0		34	1		
		8			80	10
					(0)	(0)
	8		45	9		
		78			130	65
					(9)	(0)
	6		25	26		

CROSS SECTIONS STA. 893+00 TO STA. 895+35

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

1.09
216

TRU-422-(14.70)-(16.38)

End Drive Constr. Approx. 65' Lt
10' V.C.
1%
15%
8%
10' V.C.
955
950
End Dr. Constr. Approx. 65' Lt.
3%
10' V.C.
14%
0%
10' V.C.
C-48
954.07
896+87
953.82
Dr. Lt.
29' Bit. Conc.
F-1
4%
End Feather Approx. 33' Rt.
+87 Dr. Lt.
C-13
953.68
896+75
953.47
955
950
F-1
C-29
C-14
F-2
952.83
896+50
952.62
950
945
F-2
C-45
C-11
F-1
951.97
896+25
951.43
End Drive Constr. Approx. 51' Lt
4%
C-36
F-1
C-10
951.10
896+00
950.89
Dr. Lt.
950
945
F-2
C-46
F-2
C-9
950.17
895+75
949.96
950
945
F-1
C-48
C-15
949.23
895+50
949.02
Sta. 895+35

Seeding		End Area		Cu. Yds.	
L.F.	S.Y.	Cut	Fill	Exc.	Emb.
				(20)	(0)
9		61	1		
	29			48	2
12		43	3		
	35			46	3
13		56	3		
	25			47	2
5		46	1	(7)	(0)
	25			47	1
13		55	4		
	28			55	1
7		63	1		
	15			36	1
11		65	1		

EXCAVATION 720 C.Y.
EMBANKMENT 93 C.Y.
SEEDING 305 S.Y.

CROSS SECTION SHEET

	BY	DATE
SURVEYED	E.A.	8/26/69
PLOTTED	K.W.	10/2/69
CHECKED	FMC.	6-70
LINED & DATE	L.H.A.	7-14-71
END AR. AG.	L.H.A.	7-14-71
VOLUME TOTALS	K.W.	7-14-71

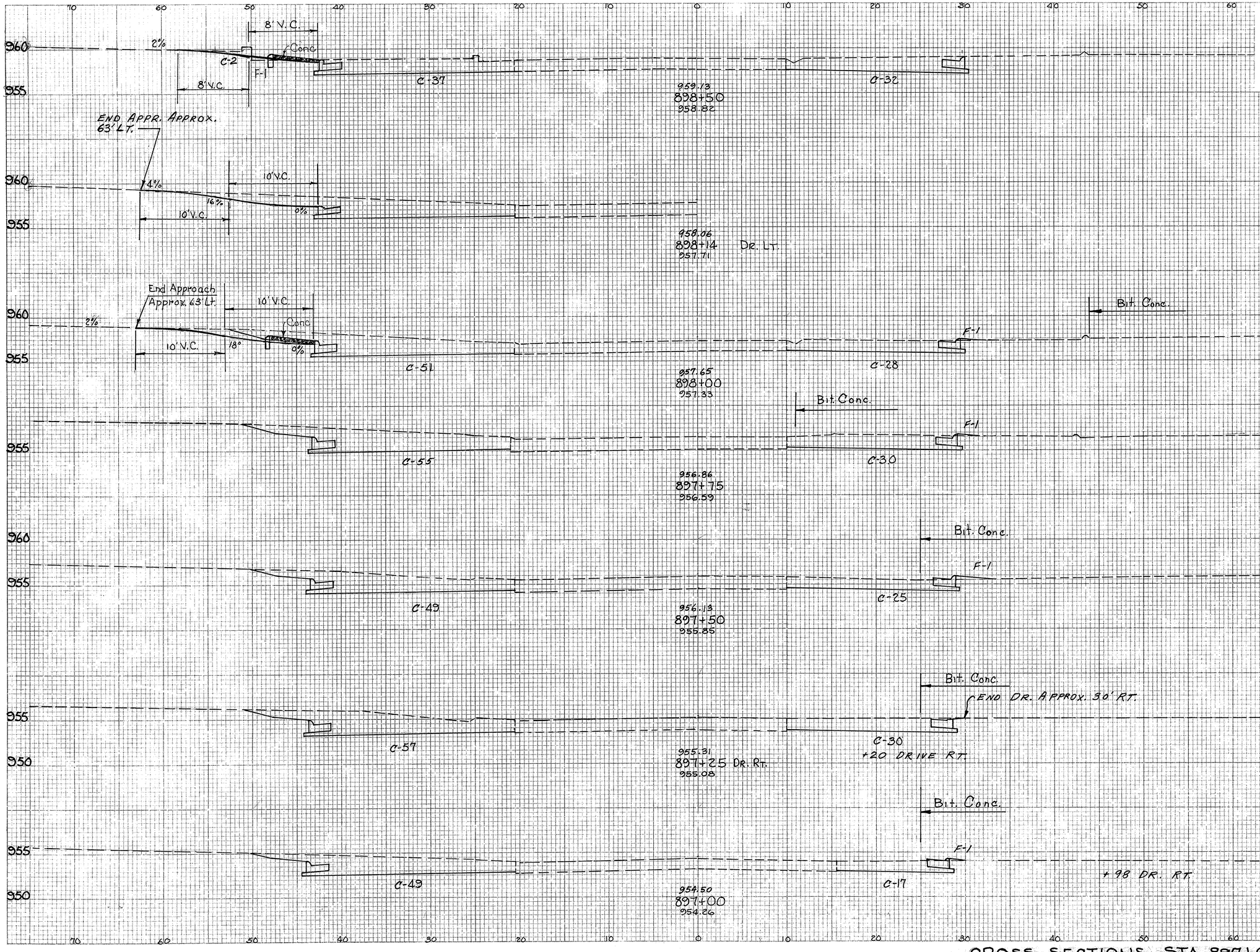
CHECKED BY	DATE
J.L.	5/16/71
R.S.	10-15-69
	5/17/71
K.W.	7-14-71
K.W.	7-16-71
K.W.	8-18-71

CROSS SECTIONS STA. 895+50 TO STA. 896+75

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

110
216

TRU-422-(14.70)-(16.38)



Seeding		End Area		Cu. Yds.	
L.F.	S.Y.	Cut	Fill	Exc.	Emb.
2		71	1		
				(55)	(0)
	17			139	2
4		79	1		
	25			76	1
14		85	1		
	32			74	1
9		74	1		
	27			75	1
10		87	0		
				(0)	(0)
	27			71	1
9		66	1		
				(0)	(0)
	25			59	1
9		61	1		

CROSS SECTION SHEET

BY	DATE
SURVEYED	8/26/65
PLOTTED	10/13/65
CHECKED	6-70
REVISED	7-14-71
INKED	7-14-71
END AREAS	7-14-71
VOLUME TOTALS	7-16-71

BY	DATE
E.A.	8/26/65
K.W.	10/13/65
FWL	6-70
LHA	7-14-71
LHA	7-14-71
K.W.	7-16-71

CROSS SECTIONS STA 897+00 TO STA 898+50

FED. PD. DIVISION	STATE	PROJECT	
2	OHIO		

111
216

TRU-422-(14.70)-(16.38)

End Drive Constr.
Approx 45' Lt.
8%

966.26
901+64 Dr. Lt.
965.92

+64 Dr. Lt.
For Exc. Quant.
See Sht. No. 112

Bldg.

C-33

964.78
901+00
964.47

C-24

F-5

End Drive Constr.
Approx 45' Lt.
8%

963.94
900+60 Dr. Lt.
963.58

+60 Dr. Lt.

F-1

C-30

962.67
900+00
962.34

C-23

F-3

END APPROACH APPROX.
40 Rt.
4%

961.66
899+55 Dr. Rt. (20') Conc.
961.38

+55 Dr. Rt.

End Drive Constr.
Approx 48' Lt.
6%

960.77
899+15 Dr. Lt.
960.44

+15 Dr. Lt.

End Drive Constr.
Approx 48' Lt.

C-34

C-28

960.43
899+00
960.08

End Work Approx. 32.5' Rt.

960.25
898+93.5 Dr. Rt.
959.93

+93.5 Dr. Rt.

Sta. 898+50

	Seeding		End Area		Co. Yds.	
	L.F.	S.Y.	Cut	Fill	Exc.	Emb.
	15		57	5		
					(5)	(0)
		156			204	17
	13		53	4		
					(2)	(0)
		72			213	7
					(8)	(0)
	0		62	0		
		6			123	1
					(0)	(0)
Sta. 898+50	2		71	1		

	C.Y.
Excavation	1264
Embankment	44
Seeding	495

CROSS SECTION SHEET

	BY	DATE
SURVEYED	E.A.&E.T.	8/26/65
PLOTTED	K.W.	10/31/65
TIE & DATE	F.M.C.	C-70
INDEX	K.W.	
END AREA	K.W.	7-16-71
VOLUME TOTALS	K.W.	

	CHECKED BY	DATE
	J.H.	5/6/71
	A.S.	10-16-69
	G.B.	5/25/71
	G.B.	5-24-72

CROSS SECTIONS STA. 899+00 TO STA. 901+00

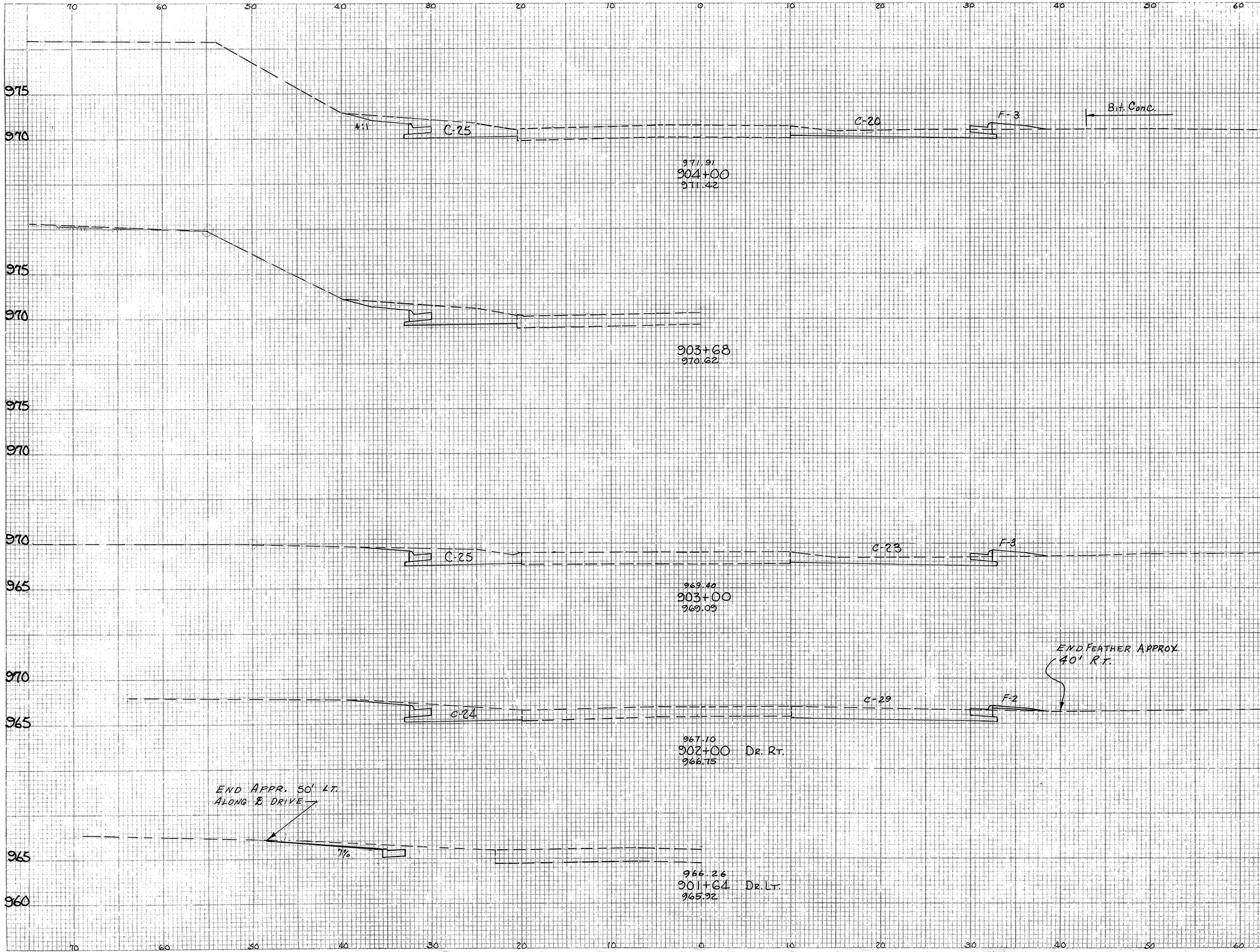
+64

NEW RD DIVISION	STATE	PROJECT	
2	OHIO		

112
216

TRU - 422 - (14.70) - (16.38)

CROSS SECTION SHEET	BY	DATE	CHECKED BY	DATE
SURVEYED	ET & EA	8/24/69	R.S.	10-16-69
PLOTTED	K.W.	10/8/69		
T & A.E.	F.M.L.	6-70	K.W.	7-16-71
INV. & A.E.	L.H.A.	7-13-71	K.W.	7-16-71
END AREAS	L.H.A.	7-13-71	K.W.	7-16-71
VOLUME TOTALS	K.W.	7-16-71	Sec	Rec'd 9-27



	Seeding	End Area		Cu. Yds.	
	L.F.	S.Y.	Cut	Fill	Exc.	Emb.
	17		45	3		
		178			172	11
	15		48	3		
		133			187	9
+00 DR. RT.	9		53	2	(0)	(0)
		133			204	13
+64 DR. LT.					(15)	(0)
STA 901+00	15		57	5		

CROSS SECTIONS STA 902+00 TO STA 904+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

113/216

TRU-422-(14.70)-(16.38)

CROSS SECTION SHEET

	BY	DATE
SURVEYED	E.A.	10/1/69
PLOTTED	K.W.	10/3/69
TEST DATE	FML	6-7-70
LINED	L.H.A.	7-14-71
END AREA	E.H.A.	7-14-71
VOLUME TOTALS	K.W.	7-16-71

	Seeding		End Area		Cu. Yds.	
	L.F.	S.Y.	Cut	Fill	Exc.	Emb.
+60 Dr. Lt.					(7)	(0)
+37 Dr. Rt.					(9)	(0)
	20		47	7		
+93 Dr. Lt.					(29)	(0)
+74 Dr. Rt.					(0)	(0)
	261		204	17		
	28		63	2		
	250		200	9		
STA. 904+00	17		45	3		

	C.Y.
Excavation	980
Embankment	72
Seeding	1050 S.Y.

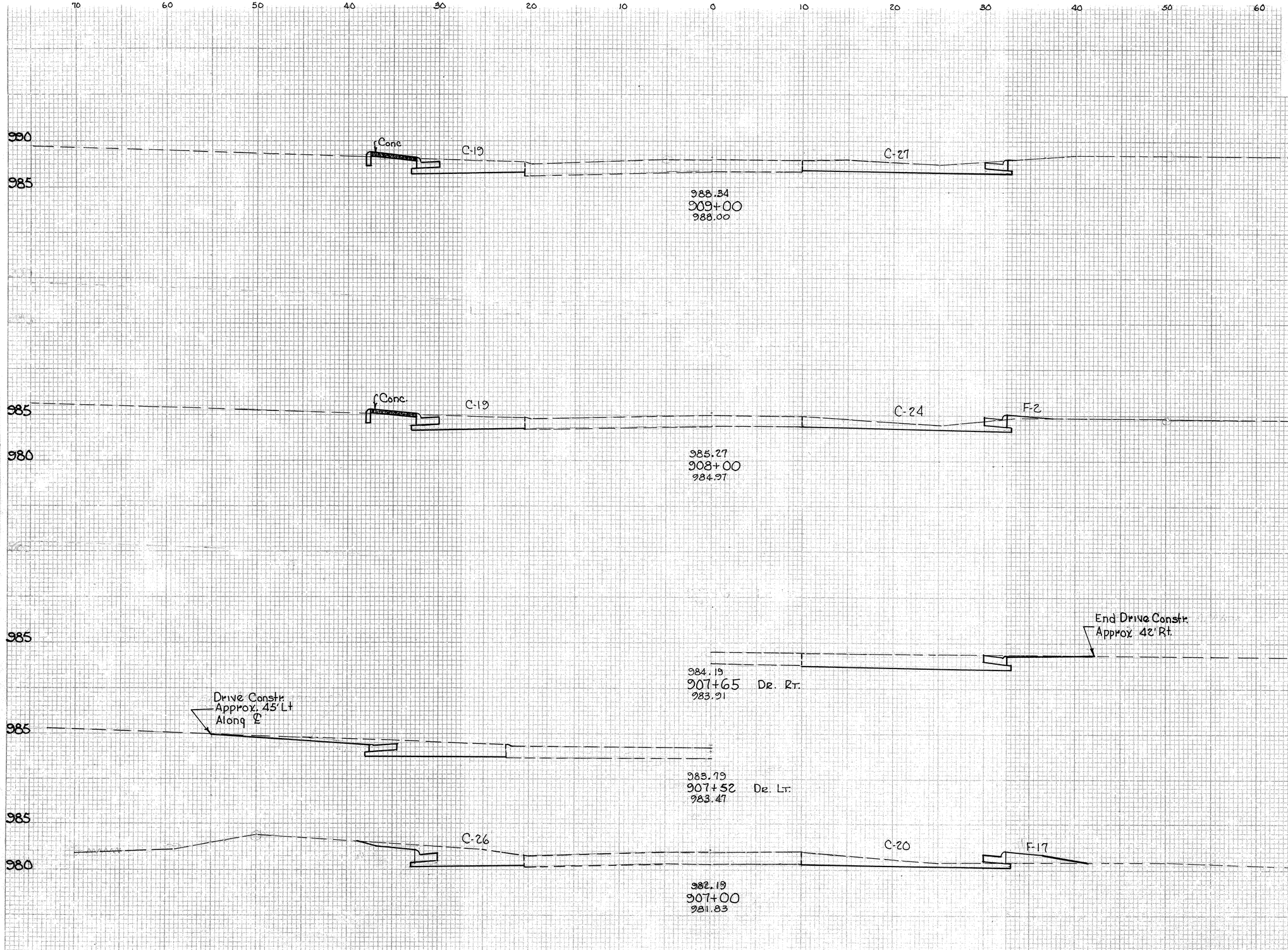
CROSS SECTIONS STA. 905+00 TO STA 906+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

114
216

TRU-422-(14.70)-(16.38)

CROSS SECTION SHEET	BY	DATE	CHECKED BY	DATE
SURVEYED	E.A.	10/2/69	R.S.	10-6-69
PLOTTED	K.W.	10/3/69		
TE & LATE	FMK	6-70	L.H.A.	7-15-71
INKED	K.W.	7-8-71	L.H.A.	7-15-71
END AREAS	K.W.	7-8-71	L.H.A.	8-2-71
VOLUME TOTALS	K.W.	7-14-71	G.E.	



	Seeding		End Area		Cu. Yds.	
	L.F.	S.Y.	Cut	Fill	Exc.	Emb
	3		46	0		
		56			165	4
	7		43	2		
						(9) (0)
		150			165	17
						(8) (0)
	20		46	7		
		222			172	26
Sta. 906+00	20		47	9		

	C.Y.	C.Y.	S.Y.
EXCAVATION	1015		
EMBANKMENT	25		
SEEDING	601		

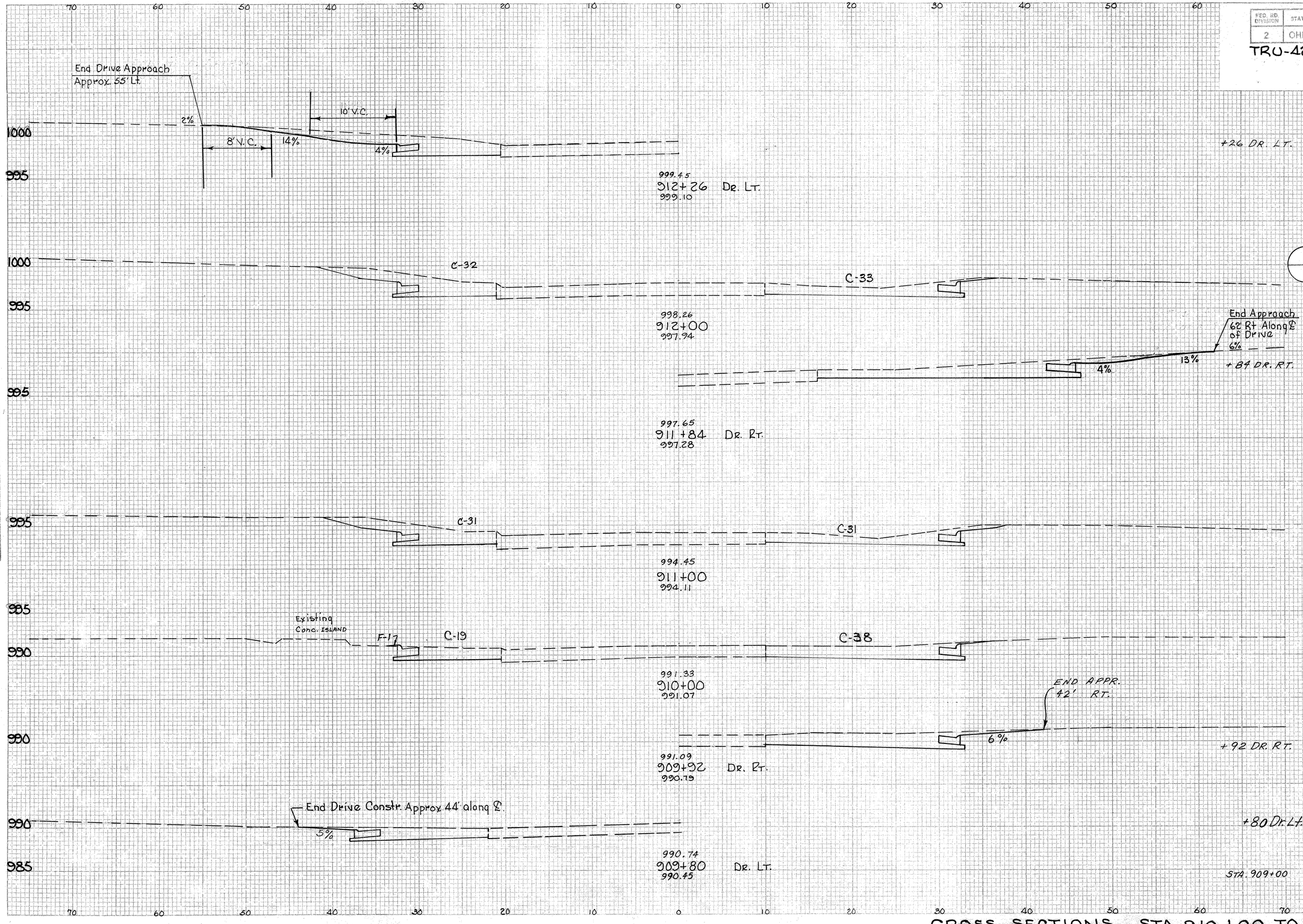
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

115
216

TRU-422-(14.70)-(16.38)

CROSS SECTION SHEET

	BY	DATE	CHECKED BY	DATE
SURVEYED	E.A.	10-2-69		
PLOTTED	K.W.	10-6-69	D.R.P.	10-14-69
TE & LATE	F.M.G.	6-70		
INKED	L.H.A.	7-14-71	K.W.	7-15-71
END AREAS	L.H.A.	7-14-71	K.W.	7-15-71
VOLUME TOTALS	K.W.	7-16-71	F.S.S.	



Station	Seeding L.F.	Seeding S.Y.	End Area Cut	End Area Fill	Cu. Yds. Exc.	Cu. Yds. Emb
+26 DR. LT.					(16)	(0)
	18		65	0		
+84 DR. RT.					(7)	(0)
		206			235	0
	19		62	0		
		122			220	2
	9		57	1		
+92 DR. RT.					(7)	(0)
	67				191	2
+80 Dr. Lt.					(8)	(0)
STA. 909+00	3		46	0		

CROSS SECTIONS STA. 910+00 TO STA. 912+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

116
216

TRU-422-(14.70)-(16.38)

CROSS SECTION SHEET

	BY	DATE
SURVEYED	E.A.	10/26/69
PLOTTED	K.W.	10/6/69
TE'd & ATE	FML	6-30
INKED	LHA	7-14-71
END AREAS	LHA	7-14-71
VOLUME TOTALS	K.W.	7-16-71

	Seeding	End Area		Cu. Yds.	
	L.F.	S.Y.	Cut	Fill	Exc.	Emb.
	19		65	1		
		211			270	2
	19		81	0		
+87 DR. RT.					(7)	(0)
		211			257	0
+39 DR. LT.					(20)	(0)
	19		58	0		
		200			222	2
+63 DR. LT					(12)	(0)
	17		62	1		
		206			230	2
+97 DR. RT.					(3)	(0)
STA. 912+00	18		62	0		

	C.Y.
Excavation	1281
Embankment	10
Seeding	1039
	S.Y.

C-40 · C-25 · F-1
1017.28
916+00
1017.00
C-47 · C-34
1012.51
915+00
1012.22
END APPR. APPROX. 42' RT.
6%
1011.88
914+87 DR. RT.
1011.60
END APPR. APPROX. 50' LT.
8%
1009.56
914+39 DR. LT.
1009.29
C-32 · C-26
1007.68
914+00
1007.40
10' V.C.
6%
8' V.C.
15%
4%
1005.89
913+63 DR. LT.
1005.56
C-36 · C-26 · F-1
1002.84
913+00
1002.51
END APPR. 50' RT. ALONG R DRIVE
3%
1002.70
912+97 DR. RT.
1002.37

70 60 50 40 30 20 10 0 10 20 30 40 50 60 70

1020 1015 1010 1005 1000 995

CROSS SECTIONS STA. 913+00 TO STA. 916+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

117
216

TRU-422-(14.70)-(16.38)

CROSS SECTION SHEET	DATE	CHECKED BY	DATE
SURVEYED	10-3-69	E.A.	10-14-69
PLOTTED	10-7-69	K.W.	
TE w ATE	6-70	D.R.P.	
INKED	7-14-71	K.W.	7-14-71
END AREAS	7-14-71	F.M.L.	7-14-71
VOLUME TOTALS	7-16-71	L.H.A.	8-24-71
		K.W.	

70 60 50 40 30 20 10 0 10 20 30 40 50 60 70

1040 1035 1030 1025 1020

1036.52

END APPR. 540' RT.

8%

1036.97
920+07
1036.63
Dr. Rt. 12' GRAVEL

+07 Dr Rt

C-22 C-19 F-5

1036.61
920+00
1036.30

C-27 C-23 F-2

1031.74
919+00
1031.44

C-20 C-22 F-4

926.94
918+00
1026.64

END APPR. APPROX. 65' LT.

2% 10' V.C. 11% 10' V.C. 0%

+60 Dr. Lt.

1025.02
917+60
1024.73
Dr. Lt.

END APPR. APPROX. 40' RT.

+14 Dr. Rt.

1022.81
917+14
1022.54
Dr. Rt.

C-35 C-32 F-1

1022.14
917+00
1021.85

STA. 916+00

EXCAVATION 959 C.Y.
EMBANKMENT 51 C.Y.
SEEDING 1073 S.Y.

	Seeding		End Areas		Co Yds	
	L.F	S.Y.	Cut	Fill	Exc.	Emb.
					(4)	(2)
	19		41	5		
		217			169	13
	20		50	2		
		217			190	11
	19		42	4		
+60 Dr. Lt.					(60)	(0)
		211			202	9
+14 Dr. Rt.					(4)	(0)
	19		67	1		
		211			244	4
STA. 916+00	19		65	1		

CROSS SECTIONS STA. 917+00 TO STA. 920+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

118
216

TRU-422-(14.70)-(16.38)

CROSS SECTION SHEET

	BY	DATE	CHECKED BY	DATE
SURVEYED	E.A.	10-6-69		
PLOTTED	K.W.	10-7-69	D.R.P.	10-16-69
TE & LATE	FMW	6-70		
INKED	L.H.A.	7-14-71		7-16-71
END. AREAS	L.H.A.	7-14-71	K.W.	7-16-71
VOLUME TOTALS	K.W.	7-16-71	S.E.B.	

END WORK
STA. 923+17.38

STA 923+17.38

R/W

C-11

3:1

C-2

R/W

1055

1050

1052.67
922+92.38
1052.42

3:1

C-40

C-4

C-5

F-3

1047.49
922+00
1047.18

1050

END APPR. APPROX. 36' RT.

7%

1045

921+55 DR. RT.

1044.56

+55 DR. RT.

R/W

1045

3:1

C-38

C-12

F-1

1040

1041.81
921+00
1041.44

R/W

+88 36' LT. No 2-2A C.B.
GR. EL. 1040.0
F.L. EL. 1035.96

1045

END APPR. 48' LT. ALONG E DR.

1040

4%

920+82 DR. LT.
1040.53

+82 DR. LT.

1035

STA. 920+00

70 60 50 40 30 20 10 0 10 20 30 40 50 60 70

Seeding		End Area Cu. Yds.			
L.F.	S.Y.	Cut	Fill	Exc.	Emb
STA 923+17.38	0		0	0	
	20			6	0
C.Y. C.Y. S.Y.					
12.1 6 205					
Excavation Embankment Seeding	14		13	0	
	185			115	6
	22		49	3	
	222			183	7
+55 DR. RT.				(4)	(0)
	18		50	1	
	206			154	9
+82 DR. LT.				(9)	(0)
STA. 920+00	19		33	4	

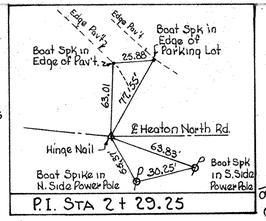
CROSS SECTIONS STA. 921+00 TO STA 923+17.38

FED. RD. DIVISION	STATE	PROJECT	FISCAL YEAR
2	OHIO		

119
216

TRU-422-(14.70)-(16.38)

NOTE: For Details Showing Crown Line and Pavement Elevations and Returns on Heaton North Road See Sheet No. 145 For Details and Quantities of P-10 and P-12 See Sheet No. 26 and 55.



P.I. STA 2+29.25

SCALE 1" = 20'

NOTE: Intercept Existing 12" Pipe Sta. 6+43 (Lt) and Connect to Proposed Using a 15"x 12" Tee at the direction of the Engineer.

P-4 NOTE: Remove exist. 6" Pipe @ Sta. 7+17 (Lt) and Replace with 9LF 12" Type "C" Connect to proposed using a 15"x 12" Tee at the direction of the Engineer.

NOTE: No 1 MH Modified To Accomodate use of a No. 6 Catch Basin Frame & Grate.

1 Sty Conc. Blk. Bldg.

Δ = 94°-11'-40"
R = 35'
T = 37.66'
L = 57.43'

Sta 4+65 End Taper Lt.

25' Feather

15"

Sta. 5+76 Begin Curb Lt.

18" Slag

+63 ℄ Dr.

+105 ℄ Dr.

+08 ℄ Dr.

+68 ℄ Dr.

12" C.M.P.

30' Drop Curb

38' Drop Curb

12"

5'R

70'

Drop Curb

202 Abandon & Pipe Thru

Exist 30" Conc.

+14 ℄ Dr.

+24 ℄ Dr.

825+10.28

320.49

46' Drop Curb

37.3' Drop Curb

N-20°-17'-31"E

+30

Tele. Bldg.

℄ Heaton North Rd. (CH. 54) 7

N-22°-24'-30"E

Sta 8+65 Begin Taper Lt.

44'

+76.1

+32.7

+29.7

9

37.3' Drop Curb

N-20°-17'-31"E

+47

+09.7

Sta 825+99.73 = Sta 10+00 on Tang.

18"

82

83°29'

8" Water Main

Sta 4+65 Begin Taper (900' Rt.)

Sta 5+00 End Taper (12.00' Rt.)

BEGIN WORK STA 4+00

FOR TYPICAL SECTION OF ADJOINING PAVEMENT SEE SHEET NO. 6

Limits of Existing Pavement Removal

Conc. Metal Bldg. Isle. Foto-Mat

34" Cond.

Bot. 7

35.5'

12'

Sta 8+65 Begin Curb Rt.

+35 ℄ Dr.

+32 ℄ Dr.

+38 ℄ Dr.

+14 ℄ Dr. Bit. Conc.

Conc.

Conc. Walk

9+14.11

826+37.98

827

Δ = 86°-26'-39"
R = 35'
T = 32.89'
L = 52.80'

℄ U.S. 422

℄ Heaton North Rd

Drill Hole in Conc. Walk

Drill Hole in Conc. Walk

88.68'

89.68'

31.08'

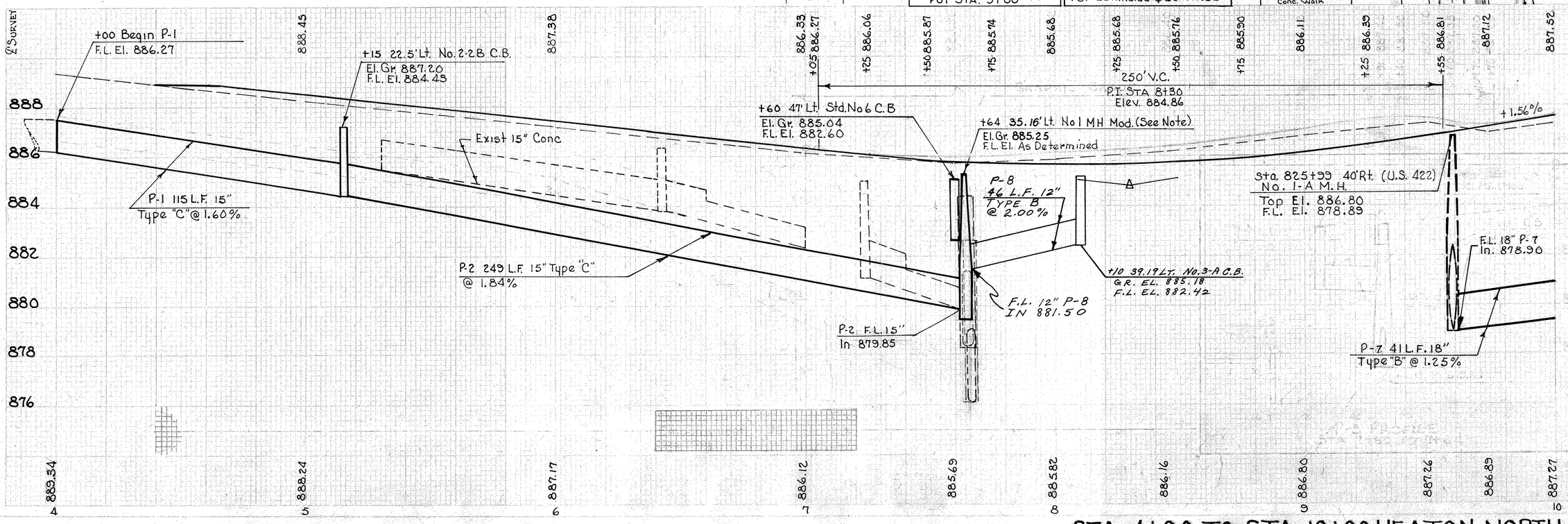
Conc. Blk. Bldg. (Guilt)

POT STA. 9+00

See Sheet No. 121 For P-3 Profile.

See Sheet No. 121 For Estimated Quantities

DATE	1-6-70	1-20-70				
	V.B.					
	W.O.H.					
	R.L.M.					
C.K.	K.W.	K.W.	R.L.M.	R.L.M.		
SURVEYED						
IN CO.						
DESIGNED						
QUANTITIES						



STA. 4+00 TO STA. 10+00 HEATON-NORTH ROAD

FED. RD. DIVISION	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
2	OHIO		120	216

TRU-422-(14.70)-(16.38)

Δ = 95° 57'-12"
R = 35'
T = 38.84'
L = 58.61'

STA. 825+77.12 ℄ U.S. 422
STA. 10+00 HEATON NORTH RD.

℄ Heaton North Rd. 7
Drill Hole in Conc. Walk. 31.30' Drill Hole in Conc. Walk. Conc. Blk Building Phillips 66
POT STA. 11+00

Limits of Existing Pavement Removal

SCALE IN FEET 0 5 10 20 30 40 50 100

END SHEET STA. 16+00

See Sheet No. 121 For Estimated Quantities

For C-1 Detail See Sheet No. 148

Δ = 83° 25' 25"
R = 35'
T = 31.20'
L = 50.96'

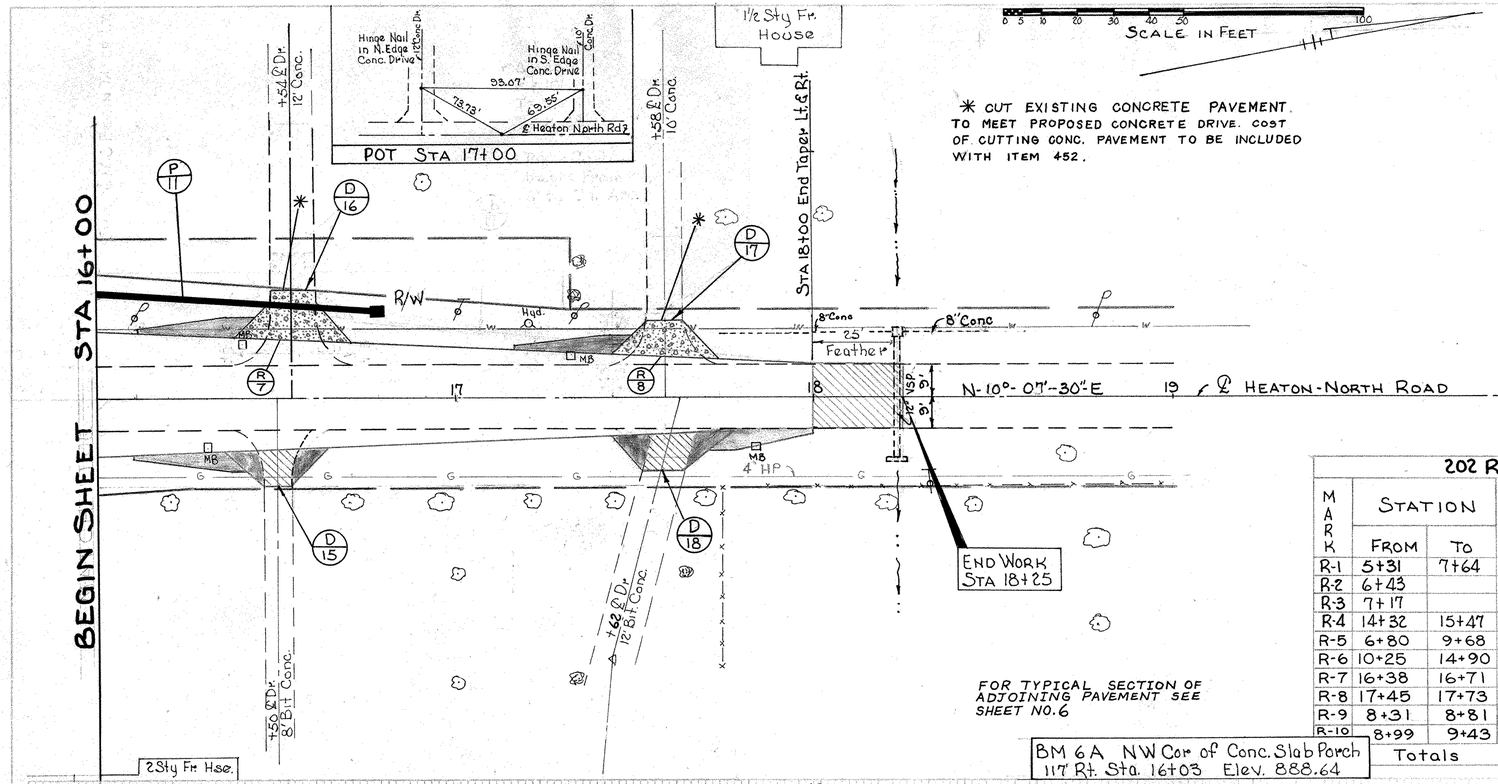
* Taper Curb from 6" to 2" in height in 10'.

STA. 10+00 TO STA. 16+00 HEATON-NORTH ROAD

C.K. 12-26-69 V.R.
K.W. 12-29-69 W.C.H. 1-20-70
K.W. W.C.H. 8-[illegible]
R.L.M. [illegible]
R.L.M. [illegible]
Issued Quantities

FED. AID DIVISION	STATE	PROJECT	FISCAL YEAR	121
2	OHIO			216

TRU-422-(14.70)-(16.38)



* CUT EXISTING CONCRETE PAVEMENT. TO MEET PROPOSED CONCRETE DRIVE. COST OF CUTTING CONC. PAVEMENT TO BE INCLUDED WITH ITEM 452.

FOR TYPICAL SECTION OF ADJOINING PAVEMENT SEE SHEET NO. 6

BM 6A NW Cor of Conc. Slab Porch 117' Rt. Sta. 16+03 Elev. 888.64

609

MARK	STATION FROM	STATION TO	SIDE	Curb Type 6 L.F.
CB-1	5+76	9+20.49	Lt.	347.00
CB-10	9+27.0	9+30.0	Lt.	3.33
CB-11	8+62.0	9+41.11	Rt.	82.50
CB-12	9+09.7	9+12.7	Rt.	5.50
CB-13	9+71.0	9+74.0	Rt.	4.11
CB-14	10+60.6	10+63.5	Rt.	5.28
CB-15	10+96	10+99	Rt.	5.50
CB-16	10+75.50	13+92.5	Rt.	317.85
CB-17	10+77.66	13+95	Lt.	317.34
CB-18	11+23	11+26	Rt.	6.70
TOTAL				1095.27

202 REMOVAL ITEMS

MARK	STATION FROM	STATION TO	SIDE	Pipe Rem'd Under 24" L.F.	CB Rem'd Ea.	C.B. Aban. Ea.	Existing Pavement Removed & Disposed Of S.Y.
R-1	5+31	7+64	Lt.	233	1	1	
R-2	6+43		Lt.	11			
R-3	7+17		Lt.	14			
R-4	14+32	15+47	Lt.	115	1		
R-5	6+80	9+68	Rt.				714
R-6	10+25	14+90	Lt. Rt.				1161
R-7	16+38	16+71	Lt.				34
R-8	17+45	17+73	Lt.				17
R-9	8+31	8+81	Lt.	373	1	1	73
R-10	8+99	9+43	Lt.				64
Totals				746	3	2	2063

DRIVES AND APPROACHES

MARK	STATION	SIDE	TYPE	LENGTH	WIDTH	Δ	304 Agg. Base Var C.Y.	304 Agg. Base 6" C.Y.	304 Agg. Base 8" C.Y.	404 Asph. Conc. Var C.Y.	404 Asph. Conc. 1¼" C.Y.	404 Asph. Conc. 2" C.Y.	402 Asph. Con. Var C.Y.	402 Asph. Con. 1¼" C.Y.	407 Tack Coat @0.1 G/SY Gal	408 Prime Coat @0.4 G/SY Gal	452 Plain Port. Cem Conc S.Y.
D-1	7+14	Rt.	Bus	14'	48'	90°			5.2							9.3	
D-2	7+68	Lt.	Bus	10'	60'	85°	1.0			2.2		2.1		6.4	0.2		
D-21	5+63	Lt.	Bus		18'			7.0		1.1			1.1			12.6	
D-3	8+35	Rt.	Bus	8'	34.6'	60°		8.3		1.3			1.3			15.0	
D-4	8+41	Lt.	Bus	20'	30'	75°											72.1
D-5	9+24	Lt.	Bus	17'	30'	75°											57.0
D-6	9+32	Rt.	Bus	10'	30'	75°		7.0		1.1			1.1			12.7	
D-7	10+72	Rt.	Bus	15'	29'	75°		9.4		1.4			1.4			16.9	
D-8	11+70	Rt.	Bus	19'	31'	52°		14.0		2.2			2.2			25.3	
D22	11+70	Rt.	Res	20'	14'	30°		6.6				2.2				15.9	
D-9	12+35	Rt.	Res	10'	10'	60°		3.6				1.2				8.7	
D-10	13+29	Lt.	Bus	22'	27'	90°			17.0	2.6			2.6			30.6	
D-11	13+37	Rt.	Bus	17'	10'	60°		5.0				1.6				12.0	
D-12	14+05	Rt.	Res	27'	10'	90°		6.9				2.3				16.4	
D-13	14+93	Lt.	Res	10'	10'	86°		5.9				2.0				14.1	
D-14	15+48	Rt.	Res	15'	8'	89°	4.7			0.1		1.8			0.4	12.8	
D-15	16+50	Rt.	Comb	10'	8'	90°		3.9		0.3		1.3			0.9	9.2	
D-16	16+54	Lt.	Comb	13.5'	12'	90°		2.0				0.7				4.8	29.3 ⊛
D-17	17+58	Lt.	Comb	10'	10'	90°											22.4
D-18	17+62	Rt.	Comb	10'	12'	75°		3.8		0.4		1.3			1.3	9.2	
D-19	6+05	Lt.	Bus	5'	20'	85°			4.2	0.7				0.7	0.4	7.6	
D-20	7+08	Lt.	Bus	4.5'	30'	85°			3.5	0.6		0.6				6.3	
TOTALS								113.80		34.20		12.5			18.7	230.3	181.0

⊛ 452 6" TOTAL = 51.7 S.Y.
+452 8" TOTAL = 129.3 S.Y.

305

MARK	STATION FROM	STATION TO	SIDE	Port Cement Conc. Base S.Y.
P-5	10+00	10+25	R	16.7
P-7	9+68	10+00	L-R	21.3
TOTALS				38.0

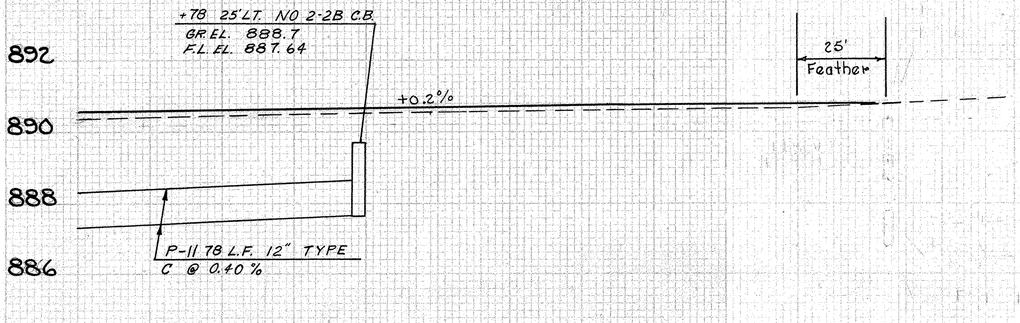
★ 706.01 E.S., 706.02
706.08 E.S., 707.13

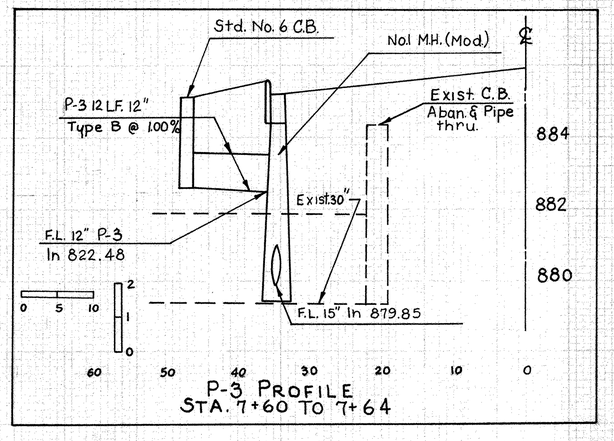
DRAINAGE

MARK	STATION FROM	STATION TO	SIDE	603 Conduit Type B" 12" L.F.	15" L.F.	18" L.F.	Type "C" 12" L.F.	*12" L.F.	15" L.F.	*15" L.F.	604 Std. No 22B C.B. Ea.	Std. No 6 C.B. Ea.	No 3-A C.B. Ea.	No 3 C.B. Ea.	No. 1 M.H. Mod. Ea.	Bends & Branches 15"x12" Tee
P-1	4+00	5+15	Lt.						115		1					
P-2	5+15	7+64	Lt.							249					1	1
P-3	7+60	7+64	Lt.	12								1				
P-4	7+17		Lt.					9								1
P-5	10+00	11+05	Rt.			107							1			
P-6	11+05	11+20	L-R		57									1		
P-7	9+59	10+00	Rt.			41										
P-8	7+64	8+10	Lt.	46									1			
P-9	14+30	15+20	Lt.						91		1					
P-10	15+20	16+00	Lt.				80									
P-11	16+00	16+78	Lt.				78				1					
TOTALS				58	57	148	158	9	206	249	3	1	2	1	1	

STRUCTURES 20' SPAN AND UNDER

MARK	STATION	TYPE	SIZE	SHEET No.
C-1	14+27.35	"A" 706.02 or 706.08	21" x 78'-0"	148





P-3 PROFILE
STA. 7+60 TO 7+64

Excavation	3235	C.Y.
Embankment	311	C.Y.
Seeding	3254	S.Y.

C.K.	12-26-69	
K.W.	12-29-69	
K.W.	1-71	W.C.H.
R.L.M.	12-70	
R.L.M.	1-71	W.C.H.

STA 16+00 TO STA. 21+00 HEATON NORTH ROAD

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

122
216

TRU-422-(14.70)-(16.38)

	BY	DATE
SURVEYED	E.T.	8-25-69
DRAWN	K.W.	7-17-70
CHECKED	R.L.M.	8-5-70
TRACED	K.W.	8-18-70
X-SECTIONED	K.W.	8-18-70
END AREAS	K.W.	8-18-70
VOLUME TOTALS		

Salomon 7-15-70

11-12-70

890
885

7+91
885.74

7+68 Dr. Lt.
72' Bit. Conc.

Crown Line
12.2'
3%
C-18
C-4
F-11 VAR
F-6
Bit. Conc.

885.81
7+60
885.69

6%
8%

DR. RT 46' BIT. CONC.
7+14
885.89

7+14 Dr. Rt.

9.4'
5.2%
C-28
C-4
F-3
F-2

886.33
7+00
886.12

7+08 Dr. Lt.

STA 6+80
BEGIN PAVT. REMOVAL

Crown Line
5.4'
3%
C-19
C-6
C-3

887.38
6+00
887.19

6+05 Dr. Lt.

2%

5+63
887.59

5+63 Dr. Lt.

C-1
F-9
C-3
C-4
F-8

888.49
5+00
888.25

BEGIN EARTHWORK
STA. 4+40

STA. 4+40

BEGIN WORK
4+00
889.34

	Seeding		End	Area	Cu. Yds.	
	L.F.	S.Y.	Cut	Fill	Exc.	Emb.
7+91						
7+68 Dr. Lt.					(0)	(0)
	25		22	17		
7+60						
7+14 Dr. Rt.					(0)	(0)
		146			60	26
7+08 Dr. Lt.					(4)	(0)
	19		32	6		
7+00						
		211			111	71
6+05 Dr. Lt.					(3)	(0)
	19		28	0		
6+00						
		255			67	31
5+63 Dr. Lt.					(11)	(0)
	27		8	17		
5+00						
		90			9	19
STA. 4+40	0		0	0		

CROSS SECTIONS STA. 4+00 TO STA. 7+91 HEATON NORTH RD.

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

123
216

TRU-422-(14.70)-(16.38)

CROSS SECTION SHEET

	DATE	DRAWN BY	DATE
STATE PROJ.	8-25-69	ET	
CHKD.	7-14-70	KW	7-15-70
TEN. OFF.	8-5-70	RLM	
REVISED	8-17-70	KW	
REVISED	7-12-71	KW	
END PROJ.	7-12-71	KW	
PRELIMINARY TYPICALS			

70 60 50 40 30 20 10 0 10 20 30 40 50 60

890
885

MATCH LINES — C-28 — MATCH LINE

9+68
886.89
SUSPEND PAV'T REMOVAL

STA 9+68 BACK

890
885

C-100 — F-7 — MATCH LINE

886.73
9+50
887.26

885

3%

+32 DR. RT. BIT. CONC.

9+32
887.23

Dr. Rt. 9+32

890
885

9+24
887.14
DR. LT.

Crown Line
17.29'

C-125

886.11
9+00
886.80

885

2.3%

885.76

+35 DR. RT. BIT. CONC.

8+50
886.20

Dr. Rt 8+35

885

12%

8+41
886.12
DR. LT. 34' CONC

Dr. Lt. 8+41

890

Crown Line
13.4'

885

C-40 — F-1 — C-9

885.68
8+00
885.82

STA 7+60

	Seeding		End Area		Cu. Yds.	
	L.F.	S.Y.	Cut	Fill	Exc.	Emb.
STA 9+68 BACK			0	28	0	
		16			43	2
			16	100	7	
		103			209	7
Dr. Rt. 9+32					(0)	(0)
Dr. Lt. 9+24					(30)	(0)
			21	125	0	
Dr. Rt 8+35					(0)	(0)
		206			322	2
Dr. Lt. 8+41					(30)	(0)
			16	49	1	
		91			52	13
STA 7+60			25	22	17	

Excavation 951 C.Y.
Embankment 111 C.Y.
Seeding 1118 S.Y.

CROSS SECTIONS STA 8+00 TO STA. 9+75 HEATON NORTH RD.

FED. RD. DIVISION	STATE	PROJECT	TYPE PWDS
2	OHIO		

124
216

TRU-422-(14.70)-(16.38)

CROSS SECTION SHEET	BY	DATE
SURVEYED	ET	8-26-69
PLOTTED	K.W.	7-14-70
TEMPLATE	R.W.	8-5-70
INKED	K.W.	8-11-70
CHECKED	Solomon	7-15-70
AREAS & VOLUMES	K.W.	7-28-71
	G.P.	8-23-71

DR. RT. 10' BIT. CONC. 12+35 889.62

4.5%

+69 DR. RT

3:1

C-139

12+00 889.45

DR. RT. 14' BIT. CONC. 11+70 889.43

3.2%

+70 DR. RT

DR. RT 32' BIT. CONC. 889.67 11+70 889.43

8%

+70 DR. RT

3:1

C-175

5:1

888.94 11+00 889.27

5%

+72 DR RT

DR. RT. 36 BIT CONC. 888.03 10+72 889.16

MATCH LINE

C-165

MATCH LINE

887.36 10+50 888.31

MATCH LINE

C-100

MATCH LINE

10+43 888.04

RESUME PAV'T. REMOVAL STA. 10+25

STA 10+25 Ahead

Station	Seeding L.F.	Seeding S.Y.	End Area Cut	End Area Fill	Cu. Yds Exc	Cu. Yds Emb
+69 DR. RT					(3)	(1)
17			139	0		
					(8)	(0)
+70 DR. RT						
	211				581	0
					(15)	(0)
+70 DR. RT						
21			175	0		
	67				315	0
+72 DR RT					(12)	(0)
3			165	0		
	1				34	0
0			100	0		
	0				66	0
0			100	0		

CROSS SECTIONS STA 10+43 TO STA 12+35 HEATON NORTH RD.

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS	125 / 216
2	OHIO			

TRU-422-(14.70)-(16.38)

CROSS SECTION SHEET

BY	DATE	CHECKED BY	DATE
ET	8-26-69		
KW	7-14-70	Solomon	7-15-70
RLM	8-5-70		
KW	8-18-70		
KW			

SURVEYED
PLOTTED
TRACED
END AREA
VOLUME TOTALS

70 60 50 40 30 20 10 0 10 20 30 40 50 60

890
885
895
890
895
890
890
885
890
885
890
885

C-6 C-20 C-8 F-23 6:1 Hse.

830.33
15+00
830.12

End Appr. 380' Lt.
2½%

14+93 DR. LT
830.13

+93 Dr. Lt.

Sta. 14+90 End Pavement Removal

8%

+05 Dr. Rt.

DR. RT. 9' GRAVEL 14+05
889.91

C-26 C-10 C-7 C-10 Back F-26 Ahead F-24
3:1

889.91
14+00
889.91

Hse 92'

830.06
13+63
889.82

8%

+71 Dr. Rt.

℄ DR. RT 9' GRAVEL 13+37
889.83

7.5%

13+29 DR. LT 27' BIT. CONC.
889.79

+29 Dr. Lt.

C-92 F-2

889.06
13+00
889.72

Sta 12+00

	Seeding L.F.	Seeding S.Y.	End Area Cut	End Area Fill	Co. Yds Exc	Co. Yds Emb
	31		34	23		
+93 Dr. Lt.					(5)	(0)
Excavation 2061 C.Y. / Embankment 134 C.Y. / Seeding 1590 S.Y.		428			161	83
+05 Dr. Rt.					(4)	(7)
Ahead	46		53	22		
Back	46		53	25		
		372			269	50
+71 Dr. Rt.					(7)	(3)
+29 Dr. Lt.					(14)	(0)
	21		92	2		
		211			428	4
Sta 12+00	17		139	0		

CROSS SECTIONS STA 13+00 TO STA. 15+00 HEATON NORTH RD.

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

126
216

TRU-422-(14.70)-(16.38)

CROSS SECTION SHEET

	BY	DATE	CHECKED BY	DATE
SURVEYED	C.K.	12-26-69		
PLOTTED	K.W.	7-14-70	Solomon	7-15-70
TEM. LATE	R.L.M.	8-5-70		
INKED	K.W.	8-18-70		
BND AREAS	K.W.	8-18-70	GLE	8-25-70
VOLUME TOTALS	K.W.	8-18-70		

	Seeding		End Area		Cu. Yds.	
	L.F.	S.Y.	Cut	Fill	Exc.	Emb.
STA 18+25	0		0	0		
		24			1	1
	17		2	1		
+62 DR. RT		244			67 (2)	2 (0)
+58 DR. LT.					(1)	(0)
	27		34	0		
+54 DR RT.					(22)	(0)
		278			128	2
+50 DR. RT.					(2)	(1)
	23		40	1		
		300			137	44
+48 DR. RT					(2)	(2)
STA 15+00	31		34	23		

Excavation 223 6
Embankment 546
Seeding

19+00
891.10

END WORK
STA. 18+25

F-1 C-2

890.86
18+00
890.65

17+62 DR. RT 12' BIT CONC.
890.60

17+58 DR. LT. 10' CONC.
890.59

C-22 C-112

890.75
17+00
890.52

End Appr.
30' Lt.
8%

16+54 DR LT. 12' CONC.
890.48

5%

DR. RT. 8' BIT. CONC. 16+50
890.47

C-25 C-15 F-1

890.54
16+00
890.33

8%

DR. RT 8' BIT. CONC. 15+48
890.25

CROSS SECTIONS STA. 15+48 TO STA 19+00 HEATON NORTH RD.

FED. RD. DIVISION	STATE	PROJECT	FISCAL YEAR
2	OHIO		

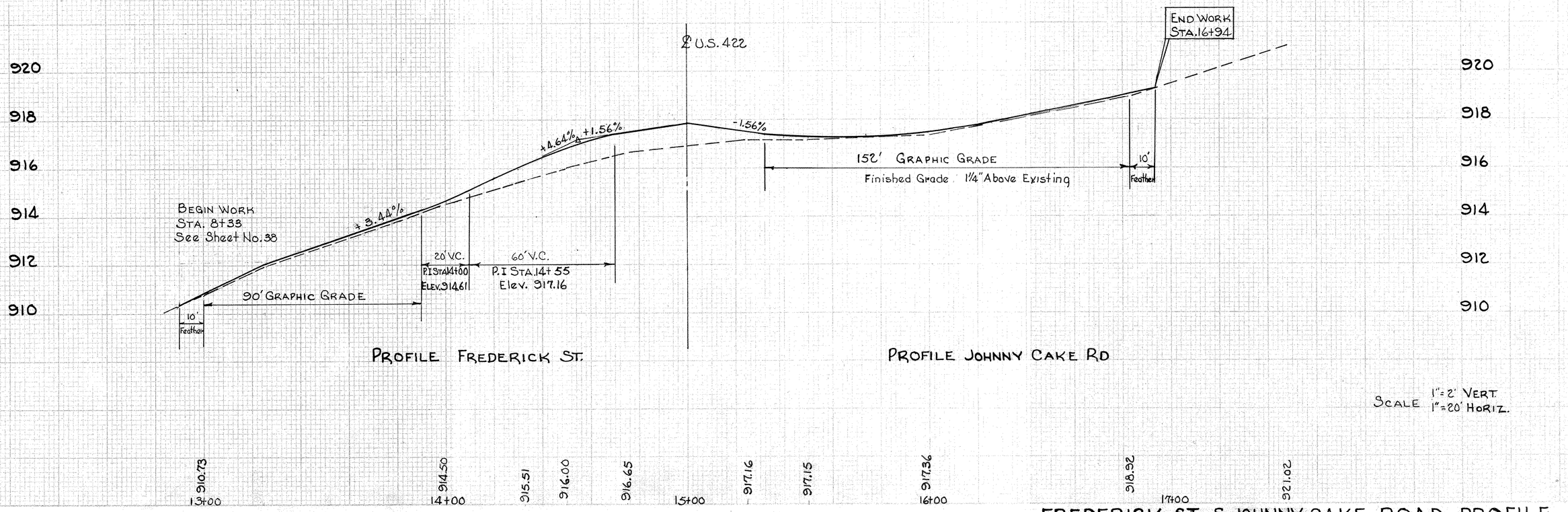
127
216

TRU-422 - (14.70)(16.38)

LINE SHEET	DATE	CHECKED BY	DATE
	11-20-70	KW	
	11-23-70	KW	
	11-18-70	WS	11-19-70
		GFJ	

SURVEYED
PLOTTED
CHECKED
DESIGNED
QUANTITIES

910.81
+25 912.03
+50 912.89
+75 913.75
+90 914.27
914.64
915.08
915.54
915.97
916.39
916.80
916.99
917.16
917.39
917.86
917.39
917.28
917.27
917.36
917.40
917.49
917.62
917.89
918.34
918.84
919.06
919.35



PROFILE FREDERICK ST.

PROFILE JOHNNY CAKE RD

SCALE 1"=2' VERT.
1"=20' HORIZ.

910.73
914.50
915.51
916.00
916.65
917.16
917.15
917.36
918.92
921.02
13+00
14+00
15+00
16+00
17+00

FREDERICK ST. & JOHNNY CAKE ROAD PROFILE

Seeding	End Area	Cu. Yds.
L.F.	S.Y.	Cut	Fill	Exc.	Emb.
12	75	0	3	0	13
15	109	0	11	0	25
24	66	0	16	0	15
0	0	0	0	0	0
0	0	0	0	0	0
18	50	0	10	0	10
95	95	0	10	0	20
16	95	0	11	0	28
18		0	19		

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

127-A
216

TRU-422- (14.70)-(16.38)

STA 8+50
BEGIN WORK

12+00
905.19
F-3

11+50
903.14
F-11

11+00
901.96
F-10
F-6

10+50
901.24

10+36.56
900.76

10+00
900.30

9+50
899.30
F-10

9+00
898.32
F-11

8+50
897.85
F-19

CROSS SECTION SHEET

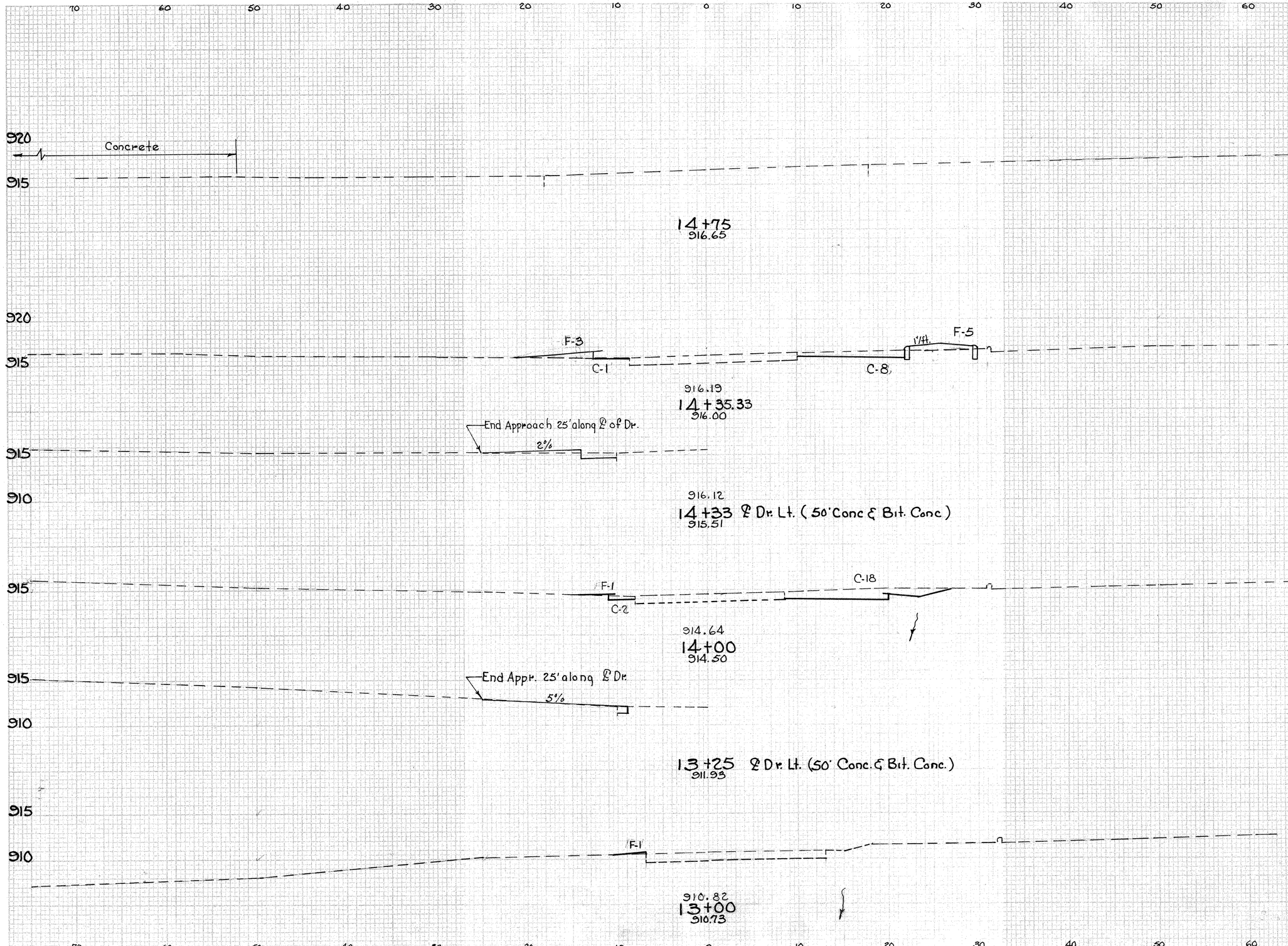
	BY	DATE
SURVEYED	FML	
PLOTTED		
TEMPLATE	WCH	7/1/71
INKED	KW	6/30/71
END AREAS	LA	7/1/71
VOLUME TOTALS	KW	7/1/71

CHECKED BY
DATE

CROSS SECTIONS STA. 8+50 TO STA. 12+00 FREDERICK ST.

FED. AID DIST. NO.	STATE	PROJECT	FISCAL YEAR	128 / 216

TRU-422-(14.70)-(16.38)



	Seeding		End Area		Cu. Yds.	
	L.F.	S.Y.	Cut	Fill	Exc.	Emb.
TOTALS	*	765		*	57	130
*Carried to Cross Section Sheet No. 106						
14+35.33 BACK	20		9	8		
		75			20	6
+33 Dr. Lt.					(0)	(2)
	16		20	1		
		122			37	4
+25 Dr. (Lt.)					(0)	(0)
	6		0	1		
		100			0	7
STA 12+00	12		0	3		

	BY	DATE	CHECKED BY	DATE
SURVEYED	CK	11/3/70		
REVISED	KW	11/5/70		
ESTIMATE	WCH	7/1/71	KW	7/1/71
LAID END AREAS	KW	6/30/71	CAC	8-25-71
VOLUME TOTALS	LA	7-22-71		

CROSS SECTIONS STA. 13+00 TO STA. 14+75 FREDERICK ST.

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

129
216

TRU-422-(14.70)-(16.38)

CROSS SECTION SHEET	BY	DATE
SURVEYED	CK	11/3/70
PLOTTED	KW	11/3/70
TEMPLATE	WGH	
INKED	KW	7-1-71
END AREAS	KW	7-1-71
VOLUME TOTALS	KW	7-1-71

	Seeding		End Area		Cu. Yds.	
	L.F.	S.Y.	Cut	Fill	Exc.	Emb
Sta 16+94	0		0	0		
		4			0	1
+38 ℄ Dr. Rt.	8		0	1		
		111			5	14
15+62.36 Ahead	16		3	8		
		63			6	11
Totals	14		5	7		
* Carried to Cross Section Sheet No. 106	*	178		*	11	26

18+10.13
922.40

17+47.03
921.02
END WORK STA. 16+94

F-1
919.01
16+83.94
918.92
End Feather Approx 15' Rt.

℄ Dr. Rt. Bit. Conc. 16+38
917.86

3:1 F-8 C-2 C-1
917.49
16+00
917.36

3:1 F-6 C-4 F-1 C-1
916.59
15+62.36
917.15

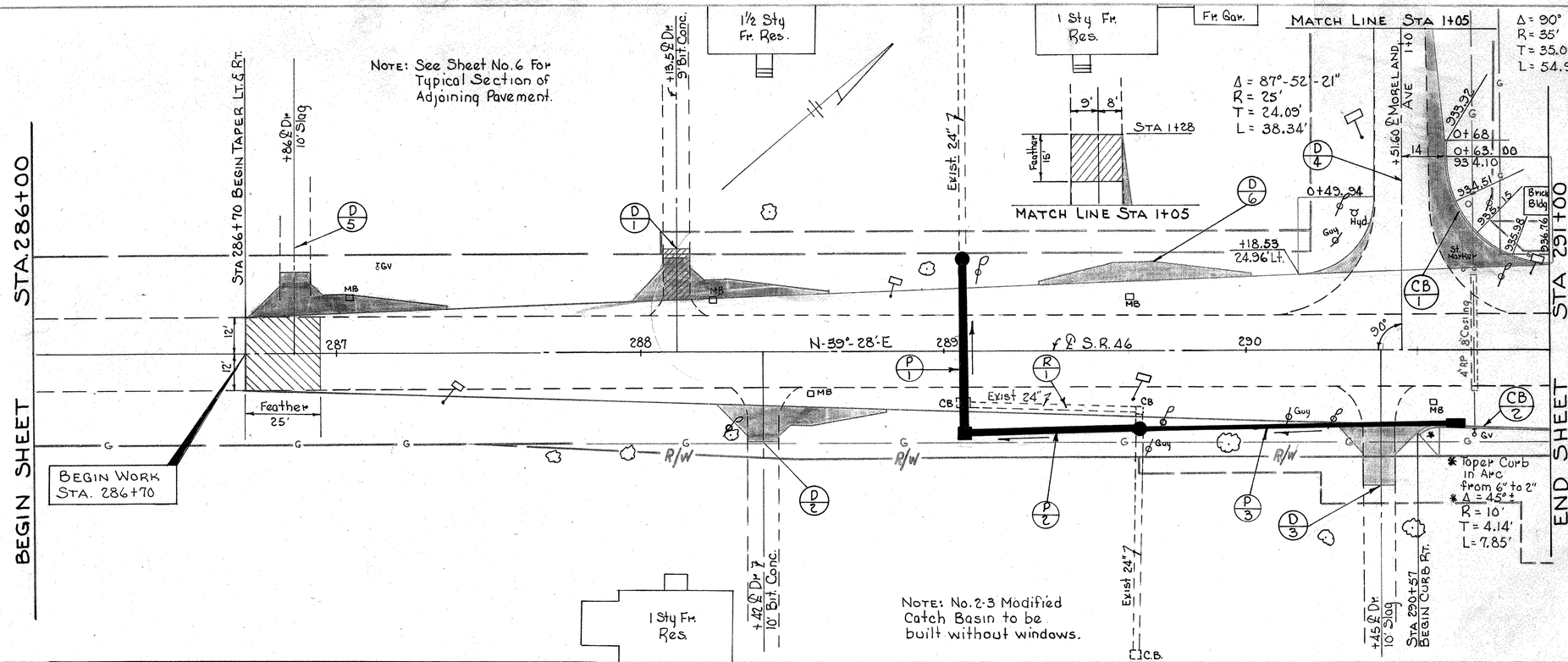
15+25
917.16

CROSS SECTIONS STA. 15+25 TO STA. 18+10.13 JOHNNY CAKE RD.

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

130
216

TRU-422-(14.70)-(16.38)



Drives & Approaches

Mark	Station	Side	Type	Length	Width	404 Asph Conc 1¼" C.Y.	404 Asph Conc 2" C.Y.	304 Agg Base 6" C.Y.	304 Agg Base Var. C.Y.	304 Agg Base 8" C.Y.	408 Prime Coat @0.4 Gal/SY Gal.	402 Asph Conc. 1¼" C.Y.	407 Tack Coat @0.1 GISY Gal.
D-1	288+13.5	Lt	Comb	16.5	10		2.6	4.5	1.5		16.9		0.3
D-2	288+42	Rt	Comb	12'	10'		2.1	6.1			14.6		
D-3	290+45	Rt	Res	20'	10		1.3	5.6			9.0		
D-4	290+51.6	Lt	Int.	100'	Var.	9.6				18.1	32.5	2.8	21.0
D-5	286+86	Lt.	Comb	14.5	10'		2.4	7.2			17.4		
D-6	289+61	Lt.	MB App	6'			1.7	5.2			12.3		
	Totals					19.1 ✓		48.2 ✓			102.7	2.8	21.3

Drainage

Mark	Station From	Station To	Side	603 Conduit Type B 12" L.F.	603 Conduit Type B 24" L.F.	604 Type C 24" L.F.	No. 23 C.B. Mod. Ea.	No. 3 C.B. Ea.	No. 1 M.H. Ea.
P-1	289+06		R-L		57		1		1
P-2	289+06	289+64	Rt.			58			1
P-3	289+64	290+68	Rt.	104				1	
	Totals			104 ✓	57 ✓	58 ✓	1 ✓	1 ✓	2 ✓

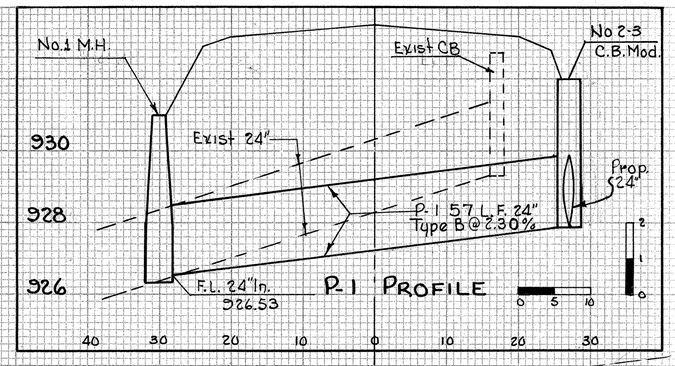
609

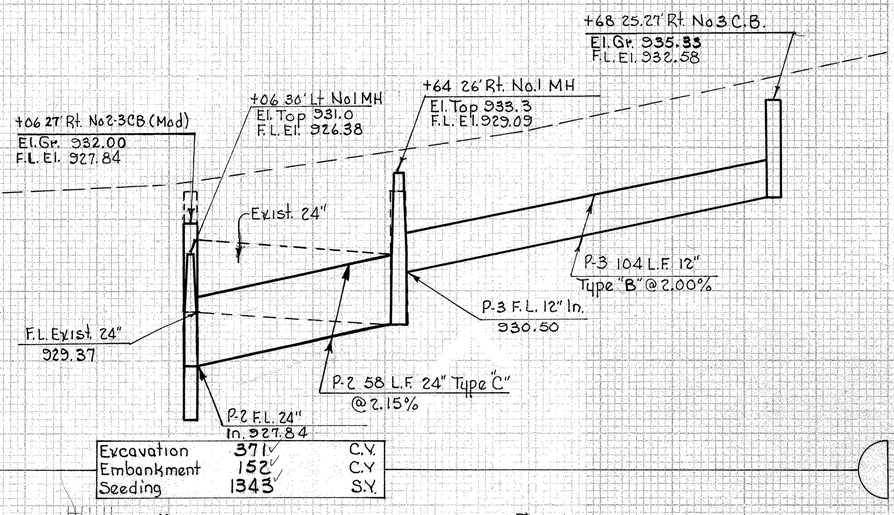
Mark	Station From	Station To	Side	609 Curb Type 6 L.F.
CB-1	0+68 *	291+00.60	Lt	59.98
CB-2	290+57	291+00	Rt	43.85
	Totals			103.83 ✓

* Stationing on Moreland Ave.

202 Removal Items

Mark	Station From	Station To	Side	202 Pipe Rem'd 24" & Under L.F.	202 C.B. Removed Ea.
R-1	289+06	289+64	Rt	58	1
	Totals			58 ✓	1 ✓





Excavation	371 ✓	C.Y.
Embankment	152 ✓	C.Y.
Seeding	1343 ✓	S.Y.

STA 286+00 TO STA. 291+00 S.R. 46

FED. AID DIVISION	STATE	PROJECT	FISCAL YEAR
2	OHIO		

131
216

TRU-422-(14.70)-(16.38)

NOTE: STA. 291+42.5± AND STA. 291+77.5± - TAPER CURB HEIGHT FROM 6" TO 2" IN 10 L.F.

MARK	609 STATION FROM	609 STATION TO	SIDE	612 TYPE G CURB L.F.	612 CONC TRAFFIC ISLAND C.Y.
CB-1	291+00	291+42.5	Lt.	51.05	
CB-2	291+77.5	295+89.71	Lt.	390.76	12
CB-3	291+00	295+49.71	Rt.	436.71	
CB-4	293+09	293+19	Rt.	15.70	
CB-5	293+35	293+45	Rt.	15.70	
CB-6	294+26	294+31	Rt.	26.00	
CB-7	294+74	294+77	Rt.	6.65	
CB-8	295+25	295+28	Rt.	6.75	
CB-9	294+73	294+82	Lt.	8.73	
CB-10	295+22	295+25	Lt.	6.87	
CB-11	295+48	295+51	Lt.	6.24	
CB-12	295+67.5	295+71.5	Rt.	4.71	
TOTALS				975.87	12

DRIVES & APPROACHES

MARK	STATION	SIDE	TYPE	LENGTH	WIDTH	452 Plain Rein. Conc. SY	304 Agg Base Var. 6" CY	304 Agg Base CY	404 Asph. Conc. 1¼" CY	404 Asph. Conc. 2" CY	407 Tack Coat @0.1 Gal	408 Prime Coat @0.4 Gal	402 Asp. Conc. CY
D-1	291+07	Rt.	Res	15'	10'		9.1			3.0			21.8
D-2	291+70	Rt.	Res	25'	10'		6.9			2.3			16.4
D-3	291+60	Lt.	Bus.	42'	35'	36.3	3.2		2.7		3.9	14.7	23
D-4	293+27	Rt.	Res	8'	16'			4.5		1.5			10.8
D-5	294+38.5 & 294+55.5	Rt.	Bus.	30'	32'	132.1							
D-6	294+74	Lt.	Bus.	14'	46'	35.3							
D-7	295+78	Rt.	Bus.	30'	30'	73.0							
D-8	295+87	Lt.	Bus.	8'	30'	32.4							
D-9	293+56	Lt.	Bus.	4.5'	35'	19.8							
TOTALS						388.9	23.7		9.5	3.9	65.7	23	

604

STATION	SIDE	604 Man Hole Adj. to Grd. Eq
A-1 293+23	Lt.	* 1
A-2 294+24	Rt.	* 1
A3 294+31	Lt.	1
TOTAL		* 3

* 100% City Participation

REMOVAL ITEMS

MARK	STATION FROM	STATION TO	SIDE	202 Curb Remd. As Per Plan L.F.	202 Pipe Remd 24" L.F.	202 C.B. Remd. L.F.	202 Pvt. Remd. S.Y.
R-1	293+10	293+14	Rt.	30			
R-2	293+35		Rt.	22			
R-3	294+60	295+40	Rt.	174			
R-4	294+72	294+81	Lt.	11			
R-5	292+61	294+04	Rt.		145	2	
R-6	294+24	294+31	Rt.	38			
R-7	291+07		Rt.				60
R-8	294+30		Rt.				78
R-9	295+78		Rt.				93
R-10	294+74		Lt.				73
R-11	295+87		Lt.				57
R-12	291+70		Lt.				86
R-13	295+30		Lt.			1	
R-14	293+56		Lt.				82
TOTALS				275	145	3	529

DRAINAGE

MARK	STATION FROM	STATION TO	SIDE	603 Conduit Type "B" 12" L.F.	603 Conduit Type "B" 15" L.F.	603 Conduit Type "B" 21" L.F.	No1 MH Ea.	No3 CB Ea.	No 2A-12 Inlet Ea.
P-1	291+94	292+10	Lt.	16			1		
P-2	291+94	291+61	Rt.			61		1	
P-3	292+61	294+00	Rt.		139				1
TOTALS				16	139	61	1	1	1

606 GUARD RAIL

MARK	STATION FROM	STATION TO	SIDE	Guard Rail Type S L.F.	Anchor Assembly Ea
GR-1	291+90	293+27.5	Lt.	137.5	2
GR-2	293+685	294+81	Lt.	112.5	1
TOTAL				250	3

EXCAVATION	1002	C.Y.
EMBANKMENT	218	C.Y.
SEEDING	1082	S.Y.

STA. 291+00 TO STA. 296+00 S.R. 46

LINE SHEET	BY	DATE	CHECKED BY	DATE
SURVEYED	C.H.	1-7-70	V.P.	1-20-70
PLOTTED	K.W.	1-9-70		
INKED	W.C.H.	1-22-70	E.B.P.	1-31-70
DESIGNED				
QUANTITIES				

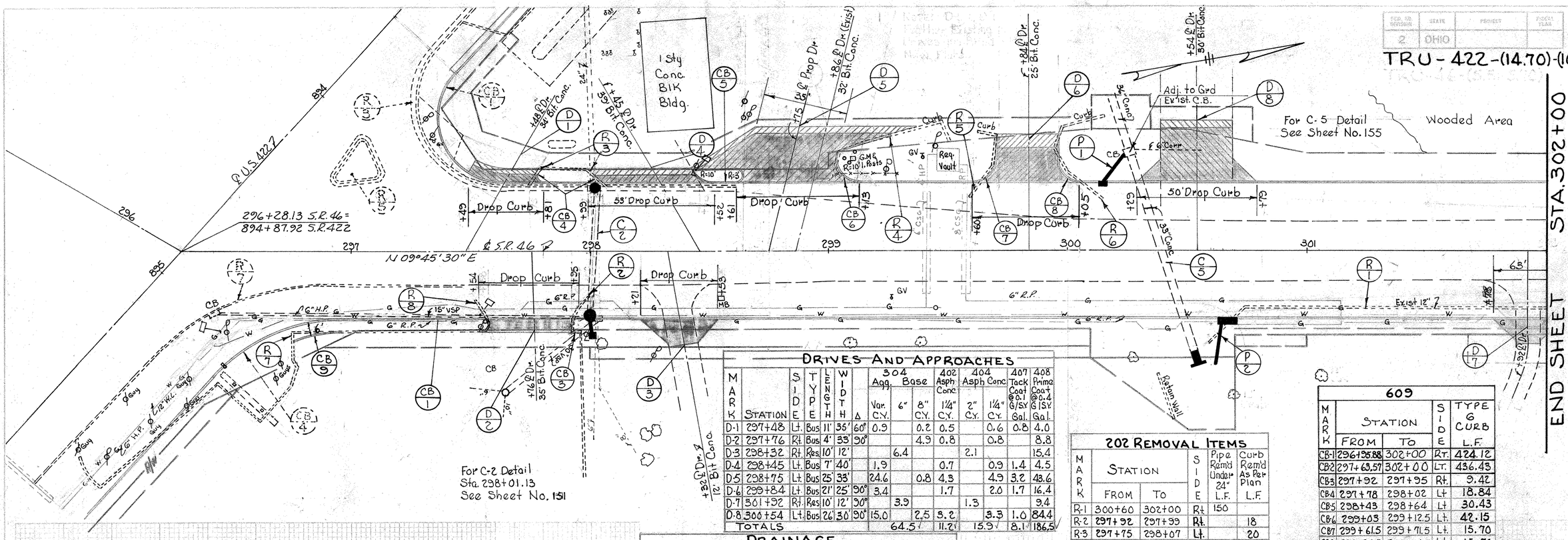
FED. AID DIVISION	STATE	PROJECT	FISCAL YEAR
2	OHIO		

132
216

TRU-422-(14.70)-(16.38)

STA. 302+00

END SHEET



DRIVES AND APPROACHES

MARK	STATION	SIDE	TYPE	LENGTH	WIDTH	Δ	304 Agg. Base Var. C.Y.	304 Agg. Base 6" C.Y.	304 Agg. Base 8" C.Y.	402 Asph Conc 1¼" C.Y.	404 Asph Conc 2" C.Y.	404 Asph Conc 1¼" C.Y.	407 Tack Coat @0.1 G/SY Gal.	408 Prime Coat @0.4 G/SY Gal.
D-1	297+48	Lt.	Bus	11'	35'	60°	0.9		0.2	0.5		0.6	0.8	4.0
D-2	297+76	Rt.	Bus	4'	33'	90°			4.9	0.8		0.8		8.8
D-3	298+32	Rt.	Res	10'	12'			6.4			2.1			15.4
D-4	298+45	Lt.	Bus	7'	40'		1.9			0.7		0.9	1.4	4.5
D-5	298+75	Lt.	Bus	25'	33'		24.6		0.8	4.3		4.9	3.2	43.6
D-6	299+84	Lt.	Bus	21'	25'	90°	3.4			1.7		2.0	1.7	16.4
D-7	301+52	Rt.	Res	10'	12'	30°		3.9			1.3			9.4
D-8	300+54	Lt.	Bus	26'	30'	90°	15.0		2.5	3.2		3.3	1.0	84.4
TOTALS								64.5 ✓		11.2 ✓		15.9 ✓	8.1 ✓	186.5 ✓

202 REMOVAL ITEMS

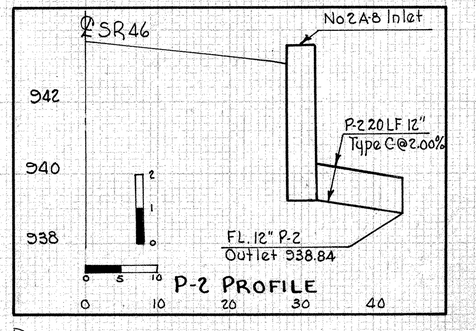
MARK	STATION FROM	STATION TO	SIDE	Pipe Rem'd Under 24" L.F.	Curb Rem'd As Per Plan L.F.
R-1	300+60	302+00	Rt.	150	
R-2	297+92	297+99	Rt.		18
R-3	297+75	298+07	Lt.		20
R-4	299+02	299+26	Lt.		34
R-5	299+59	299+71	Lt.		29
R-6	299+95	300+15	Lt.		35
R-7	296+74	296+95.88	Rt.		25
R-8	297+52	297+58	Rt.		16
TOTALS				150 ✓	177 ✓

609

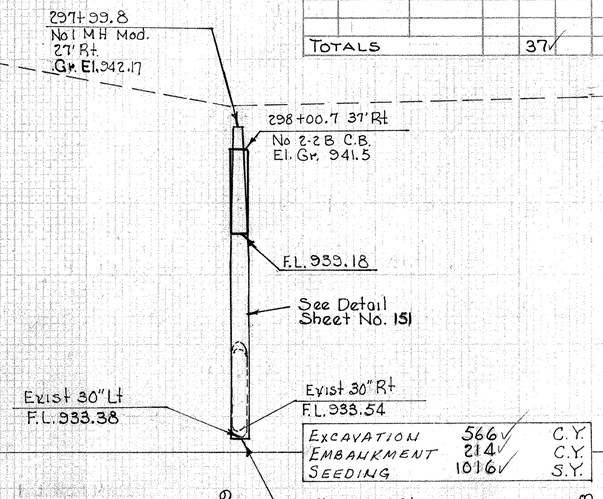
MARK	STATION FROM	STATION TO	SIDE	TYPE G CURB L.F.
CB-1	296+95.88	302+00	Rt.	424.12
CB2	297+63.57	302+00	Lt.	436.43
CB3	297+92	297+95	Rt.	9.42
CB4	297+78	298+02	Lt.	18.84
CB5	298+43	298+64	Lt.	30.43
CB6	299+03	299+12.5	Lt.	42.15
CB7	299+61.5	299+71.5	Lt.	15.70
CB8	299+96.5	300+06.5	Lt.	15.70
CB9	296+74	296+95.83	Rt.	22.00
TOTALS				1014.79 ✓

DRAINAGE

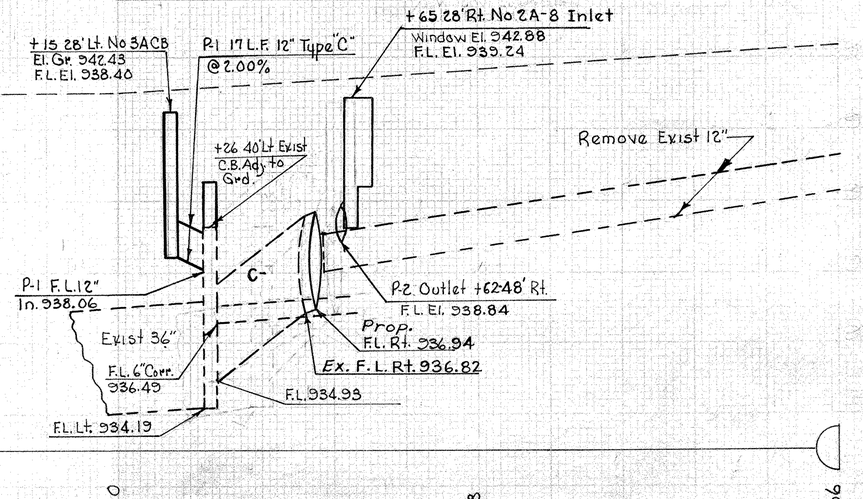
MARK	STATION FROM	STATION TO	SIDE	603 Type C" 12" L.F.	604 No 2A-8 Inlet Ea.	604 No 3-A C.B Ea.	C.B. Adj to Grd. Ea.
P-1	300+15	300+26	Lt.	17		1	1
P-2	300+62	300+65	Rt.	20	1		
TOTALS				37 ✓	1 ✓	1 ✓	1 ✓



P-2 PROFILE



EXCAVATION	566 ✓	C.Y.
EMBANKMENT	214 ✓	C.Y.
SEEDING	1016 ✓	S.Y.



STA. 296+00 TO STA. 302+00 S.R. 46

LINE SHEET

	BY	DATE	CHECKED BY	DATE
SURVEYED	W.W.	8-25-69		
PLOTTED	K.W.	9-4-69		
INKED				
DESIGNED				
QUANTITIES				

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

133
216

TRU-422-(14.70)-(16.38)

E.A. 2-4-76
K.W. 2-12-76
SURVEYED K.W.
PLOTTED
INKED
DESIGNED
QUANTITIES
CHECKED BY
DATE

NOTE: See Sheet No.6 For Typical Section of Adjoining Pavement.

NOTE: Taper Curb Height From 6" to 2" in 10 L.F.

NOTE: Taper Curb Height From 6" to 2" in 10 L.F.

BEGIN SHEET STA. 302+00

END SHEET STA. 308+00

Wooded Area

End Type 6 Curb Sta. 303+00 Lt.

Drop Curb

63' Drop Curb

Do Not Disturb

303+00 Begin Taper Lt. & Rt.

Abandon & Pipe Thru

To Remain in Service

Exist 12"

Adjust to Grd.

End Type 6 Curb Rt.

Abandon & Pipe Thru

℄ SR 467

N 09°45'30"E

Exist 15"

To Remain in Service

+80 End Taper Lt. & Rt.

25' Feather

END WORK STA 307+80

303 304 305 306 307

* Δ = 42°±
R = R = 15'
T = 5.75'
L = 11.00'

609

MARK	STATION FROM	STATION To	SIDE	Curb Type 6 L.F.
CB-1	302+00	303+00	Lt.	100.00
CB-2	302+00	305+53	Rt.	354.00
TOTALS				454.00

DRIVES & APPROACHES

MARK	STATION	SIDE	TYPE	LENGTH	WIDTH	Δ	304 Agg Base Var. C.Y.	304 Agg Base 6" C.Y.	404 Asph Conc. 2" C.Y.	404 Asph Conc. Var. C.Y.	407 Tack Coat @0.1 Gal/SY Gal.	408 Prime Coat @0.1 Gal/SY Gal.
D-1	302+18.5	Rt.	Res	15'	10'	75°		4.6	1.5			11.0
D-2	302+36	Lt.	Res	15'	10'	75°	1.3	1.8	1.8		0.4	9.3
D-3	303+73	Lt.	Res	8'	12'	78°	0.6	1.9	1.4		0.4	8.0
D-4	304+90 / 305+27	Lt.	Comb	10'	10'	81°	0.8	4.5	2.8		0.7	17.1
D-5	305+61 / 306+19	Rt.	Comb	6'	18'	84°		6.2	2.1	0.4	1.3	15.2
D-6	307+55	Lt.	Comb	6'	11'	87°		1.7	0.6	0.5	1.3	4.1
TOTALS								23.4 ✓	11.1 ✓	4.1 ✓		64.7 ✓

DRAINAGE

MARK	STATION FROM	STATION To	SIDE	603 Conduit Type "C" 12" L.F.	604 No.2-2B C.B Ea.	604 No.3 C.B Ea.	604 C.B Adj to Grd Ea.	202 C.B Aban. Ea.
P-1	304+61		Lt.	5	1			
P-2	305+30	305+33	Rt.	5		1	1	
P-3	305+90		Rt.					1
TOTALS				10 ✓	1 ✓	1 ✓	1 ✓	1 ✓

℄ S.R. 46
Exist. C.B. Adj. to Grd.
No. 3 C.B
P-2 5 L.F. 12" Type C @ 2.00%
Exist 12"
P-2 F.L. 12" In 940.00
P-2 PROFILE

+61 30' Lt. No. 2-2B C.B
El. Gr. 943.1
F.L. El. 940.4

+30 20.33' Rt. No. 3 C.B
El. Gr. 942.56
F.L. El. 940.10

P-3 Abandon & Pipe Thru

Exist F.L. 939.60±

Exist 12"

Exist 15"

R/W
No. 2-2B C.B.
℄ S.R. 46
Exist. C.B Aban. & Pipe Thru
P-1 5 L.F. 12" Type C @ 2.00%
Exist 12"
F.L. P-1 In. 940.30
SCALES
P-1 PROFILE

946 944 942 940 938

Excavation	485 ✓	C.Y.
Embankment	125 ✓	C.Y.
Seeding	1005 ✓	S.Y.

944.36 944.80 944.40 943.52 942.04 940.87 940.23 939.34

302 303 304 305 306 307 308

STA. 302+00 TO STA. 308+00 S.R. 46

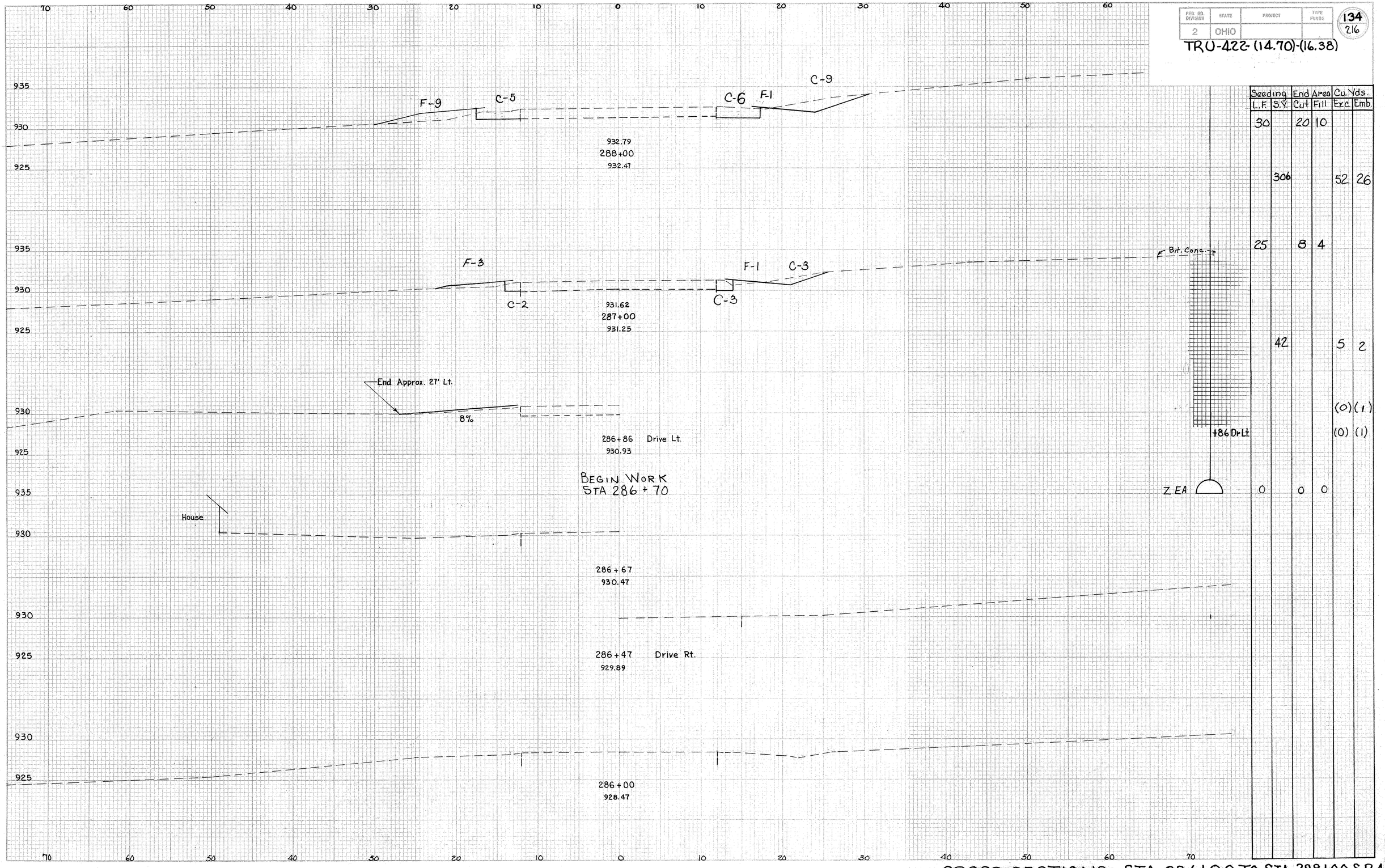
FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

134
216

TRU-422-(14.70)-(16.38)

	By	Date
Surveyed	KW	3-30-70
Slopes	Salamon	6-16-70
Cross Sections	LA	6-29-71
Inked	KW	7-5-71
End Areas	Salamon	6-16-70
Volume Totals	KW	6-29-71
	KW	6-29-71

Station	Seeding L.F.	Seeding S.Y.	End Area Cut	End Area Fill	Cu. Yds. Exc.	Cu. Yds. Emb.
288+00	30		20	10		
		306			52	26
287+00	25		8	4		
		42			5	2
286+86 Drive Lt.					(0)	(1)
286+86 Dr Lt					(0)	(1)
Z E A	0		0	0		



CROSS SECTIONS STA. 286+00 TO STA 288+00 S.R.46

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

135
216

TRU-422-(14.70)-(16.38)

CROSS SECTION SHEET

	BY	DATE	CHECKED BY	DATE
SURVEYED	KW	3-30-70	Solomon	6-16-70
PLOTTED	FML	6-2-70	L.A.	6-29-71
CHECKED	Solomon	6-16-70	KW	6-29-71
AREAS	LA	6-29-71	C.E.	7-30-71
END AREA	KW	7-5-71		
VOLUME FORMS				

Resurfacing 5.4%

935.82
290+51.70
935.68
MORELAND AVE.

End Approx 45' Rt.

935.16

+45 Dr. Rt.

290+45 Dr. Rt.
935.48

F-7 C-9 C-13 C-2

933.4

934.67
290+00
934.44

+06 27' Rt. No. 2-3 Mod. C.B.
Gr. El. 932.00
F.L. El. 927.84

F-11 C-7 C-11 F-1 C-2

932.1

933.41
289+00
932.95

House - 96' Lt.

288+48
932.70

End Dr. Appr. Approx. 30' Rt

+42 DR. RT.

288+42 Drive Rt.
932.69

End Feather Approx. 34' Lt.

Concrete | Bit. Conc. 9%

+13.5 DR. Lt.

288+13.5 Dr. Lt.
932.57

STA. 288+00

	C.Y.
EXCAVATION	371
EMBANKMENT	152
SEEDING	1343

	Seeding	End Area		Cu. Yds.	
	L.F.	S.Y.	Cut	Fill	Exc.	Emb.
					(8)	(0)
	21		24	7		
		278			81	35
	29		20	12		
		328			74	41
					(6)	(0)
					(0)	(4)
	30		20	10		

CROSS SECTIONS STA. 289+00 TO STA 290+00 S.R41

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

136 / 216

TRU-422-(14.70)-(16.38)

BY	DATE	REVISED
KW	3-30-70	
FML	6-70	
Saloman	6-16-70	
FML	7-70	
KW	7-5-71	
Saloman	6-16-70	
L.A.	6-28-71	
E.E.	7-25-71	

CROSS SECTION SHEET

SURFACED
INCLUDED END AREA VOLUME

End Guard Rail Lt.
Sta. 293+27.5

Bldg.

Conc. Wall

B F-4

C-17

C-33

939.16
293+00
938.90

292+61

B F-7

C-4

C-15

F-4

937.79
292+00
937.47

Begin Guard Rail Lt.
Sta. 291+90

END APPR. 55' RT.
ALONG ℄ OF DRIVE

937.18

10%

+70 Dr. Rt.

291+70 Dr. Rt.
937.29

937.13

END APPRO. APPROX.
70' LT.

10%

℄ Conc

+60 Dr. Lt.

291+70 Dr. Lt. Bit. Conc. W. Conc. App.
937.29
MOVED TO STA. 291+60

END APPROACH APPROX.
65' RT.

14%

+07 Dr. Rt.

291+07 Dr. Rt.
936.72

F-11

C-11

C-37

936.89
291+00
936.61

MORELAND AVE.
STA. 290+00

Seeding		End Area		Cu. Yds.	
LF	SY	Cut	Fill	Exc.	Emb.
17		50	4		
	172			128	28
14		19	11		
				(19)	(0)
				(0)	(8)
	228			124	41
				(29)	(0)
27		48	11		
	267			133	33
	(122)			(12)	(9)
21		24	7		

CROSS SECTIONS STA. 291+00 TO STA. 293+00 S.R. 46

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

137
216

TRU-422-(14.70)-(16.38)

END FEATHER APPROX. 36.5 LT.

F-5 C-7 C-53

945.84
295+00
945.55

+74 Dr. Lt.

END FEATHER 48' LT. ALONG ℄ DRIVE.

8%

294+74 Dr. LT.
944.71

End Guard Rail Lt
Sta. 294+81

Conc. App.
944.70

14%

4' Round

944.06
294+50
943.80

+30 Dr. RT.

294+30 Dr. RT.
943.04

Detail of 612 at Exist Ret. Wall

1:1
4"-612
¾" Exp. Material
Cost of Exp. Matl. To be included with Item 612
Existing Retaining Wall
℄

F-27 C-13 C-27

942.27
294+00
942.02

941.65
293+80
941.30

Begin Guard Rail Lt.
Sta. 293+68.5

940.51
Conc. App.
9%

940.90
293+56 Dr. Lt.
940.30

+56 Dr. Lt.

939.61
END DR APPR. APPROX. 42' RT.

940.00
293+27 Dr. RT.
939.43

+27 Dr. Rt.

STA. 293+00

	Seeding		End Area		Cu. Yds.	
	L.F.	S.Y.	Cut	Fill	Exc	Emb
	26		60	5		
+74 Dr. Lt.					(0)	(4)
		267			185	59
+30 Dr. RT.					(48)	(0)
	22		40	27		
+56 Dr. Lt.					(0)	(0)
+27 Dr. Rt.					(8)	(0)
STA. 293+00	17		50	4		

	C.Y.	C.Y.	S.Y.
EXCAVATION	1002		
EMBANKMENT	218		
SEEDING	1082		
		217	
			167
			57

CROSS SECTION SHEET

BY	DATE	CHECKED BY	DATE
K.W.	5-30-70	Solomon	6-16-70
FHL	6-70		
Solomon	6-16-70	L.A.	6-29-71
K.W.	6-28-71		
K.W.	7-5-71		

SURVEYED
PLOTTED
TEN. LINE
LAGED
END AREA
VOLUME TOTALS

CROSS SECTIONS STA. 294+00 TO STA. 295+00 S.R 46

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

138
216

TRU-422-(14.70)-(16.38)

CROSS SECTION SHEET

BY	DATE	CHECKED BY
KW	3-30-70	L. A. Solomon
FMC	6-10-70	
KW	6-16-70	KW
LA	6-30-71	GS
KW	7-5-71	

SURVEYED
REVISED
FIELD BOOK
PLANIMETERED
END AREAS
VOLUME TOTALS

6-29-71
6-16-70
7-1-71

MATCH LINE 71'

202

945.31
296+75
945.10

946.75
296+00
946.51

STA. 296+28.13 S.R.46 =
STA. 894+87.92 U.S.422

END FEATHER 48' LT.
ALONG ℄ OF DRIVE

12%

295+87
946.52 Dr. Lt.

+87 Dr. Lt.

END APP. 56' RT.
ALONG ℄ DRIVE

12%

295+78 Dr. Rt.
946.52

+78 Dr. Rt.

F-5
14%

C-61

295+75
946.47

F-7

C-39
14%

946.73
295+50
946.49

Pump Island

946.13

946.52
295+38
946.35

STA 295+00

Seeding		End Area		Cu. Yds	
L.F.	S.Y.	Cut	Fill	Exc	Emb
0		0	0		
				(0)	(4)
				(17)	(0)
20		61	5		
59				185	6
24		39	7		
139				92	11
26		60	5		

CROSS SECTIONS STA. 295+50 TO STA 296+00 SR46

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

TRU-422-(14.70)-(16.38)

139
216

CROSS SECTION SHEET

	BY	DATE	CHECKED BY	DATE
SURVEYED	WWEEA	2-4-70	L.A.	6-29-71
PLOTTED	KW	2-10-70	R.S.	3-12-70
TEMPLATE	PAC	7-70		
TYPED	R.S.	3-15-70		
CHKED AREA	LA	6-29-71	KW	6-30-71
MISCELL. TOTALS	KW	7-5-71	SC	7-22-71

945
940

END FEATHER 53' LT. ALONG ℄ DRIVE
14%
298+75
942.78
+75 Dr. Lt.
(0)(6)

END FEATHER 40' LT. ALONG ℄ DRIVE
298+45
942.65

END APPROACH APPROX. 40' RT.
14%
+32 Dr. Rt.
(8)(0)

298+32 Dr. Rt.
942.65

F-1 F-1 C-6
C-15 F-6
942.90
298+00
942.69
16 21 8

END APPR 34.0' RT.
10%
48 29 7
+76 Dr. Lt.
(7)(0)

297+76 Dr. Rt.
942.94
MATCH LINE
F-3
C-23
10%
8 23 3

297+64
943.12
End Feather 40' Lt Along ℄ of Dr.
10%
+48 Dr. Lt.
(0)(0)
23 32 2

297+48
943.52
MATCH LINE
C-27
4 27 0

297+30
943.92
202 Removal (Curbed Conc. Island)
C-33
17 33 0
6 33 0

944.80
297+00
944.58

CROSS SECTIONS STA. 297+00 TO STA. 298+00 S.R. 46

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

140
216

TRU-422-(14.70)-(16.38)

CROSS SECTION SHEET	BY	DATE	CHECKED BY	DATE
SURVEYED	W.W.	10-21-65	L.A.	6-29-71
PLOTTED	K.W.	2-10-70	R.S.	3-12-70
TRACED	F.M.L.	6-30-71	K.W.	7-1-71
CHECKED	L.A.	6-30-71	G.P.	7-5-71
	K.W.	7-5-71		

945
940

300+75
943.45

COLVERT INLET
F.L. 936.94

945
940

300+55
943.20

End Feather
54' Lt.
10%

+54 Dr Lt

300+54 DR LT
943.25

945
940

300+38
943.01

945
940

F-13
C-7
C-14
F-3

943.21
300+00
943.00

945
940

END FEATHER
48' LT.
12%

+84 Dr Lt.

299+84 DR. LT.
942.95

945
940

END APPR.
51' LT.
14%
F-10
C-7
C-37
2:1

943.19
299+00
942.98

STA. 298+00

	Seeding		End Area		Cu. Yds.	
	L.F.	S.Y.	Cut	Fill	Exc.	Emb
					(0)	(4)
	19		21	16		
		267			120	48
					(0)	(2)
	29		44	10		
		250			120	33
	16		21	8		

	C.Y.	C.Y.	S.Y.
EXCAVATION	366		
EMBANKMENT	214		
SEEDING	1016		

CROSS SECTIONS STA. 299+00 TO STA. 300+00 S.R. 46

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

141
216

TRU-422-(14.70)-(16.38)

CROSS SECTION SHEET

	BY:	DATE	CHECKED BY	DATE
SURVEYED	E.A	2-4-70	A.A.	6-29-71
PLOTTED	K.W	2-10-70	R.S.	3-18-70
TEMPLATE	FML	6-70		
INKED	R.S.	3-15-70	KW	6-29-71
END AREAS	L.A	6-28-71	G.P.	7-22-71
VOLUME TOTALS	K.W	7-5-71		

70 60 50 40 30 20 10 0 10 20 30 40 50 60

945 940

F-6 C-15 C-26

945.06
303+00
944.80

END FEATHER APPROX. 45' LT. ALONG ℄ OF DR.
12%

302+36 Dr. Lt.
944.55

END APPR. APPROX. 45' ALONG ℄ OF DR.
11%

302+18.5 Dr. Rt.
944.44

F-15 C-11 C-22 F-1

944.64
302+00
944.36

END APPR. APPROX. 40' LT.
9%

301+92 Dr. Rt.
944.32

F-13 C-13 C-16 F-1

943.94
301+00
943.68

STA. 300+00

+36 Dr. Lt.

+18.5 Dr. Rt.

+92 Dr. Rt.

EXCAVATION 485 C.Y.
EMBANKMENT 125 C.Y.
SEEDING 1005 S.Y.

	Seeding		End Area		Cu. Yds.	
	L.F.	S.Y.	Cut	Fill	Exc.	Emb.
	22		41	6		
+36 Dr. Lt.					(2)	(3)
		239			137	41
+18.5 Dr. Rt.					(15)	(0)
	21		33	16		
	211				115	56
+92 Dr. Rt.					(9)	(0)
	17		29	14		
	200				93	56
STA. 300+00	19		21	16		

CROSS SECTIONS STA. 301+00 TO STA. 303+00 S.R. 46

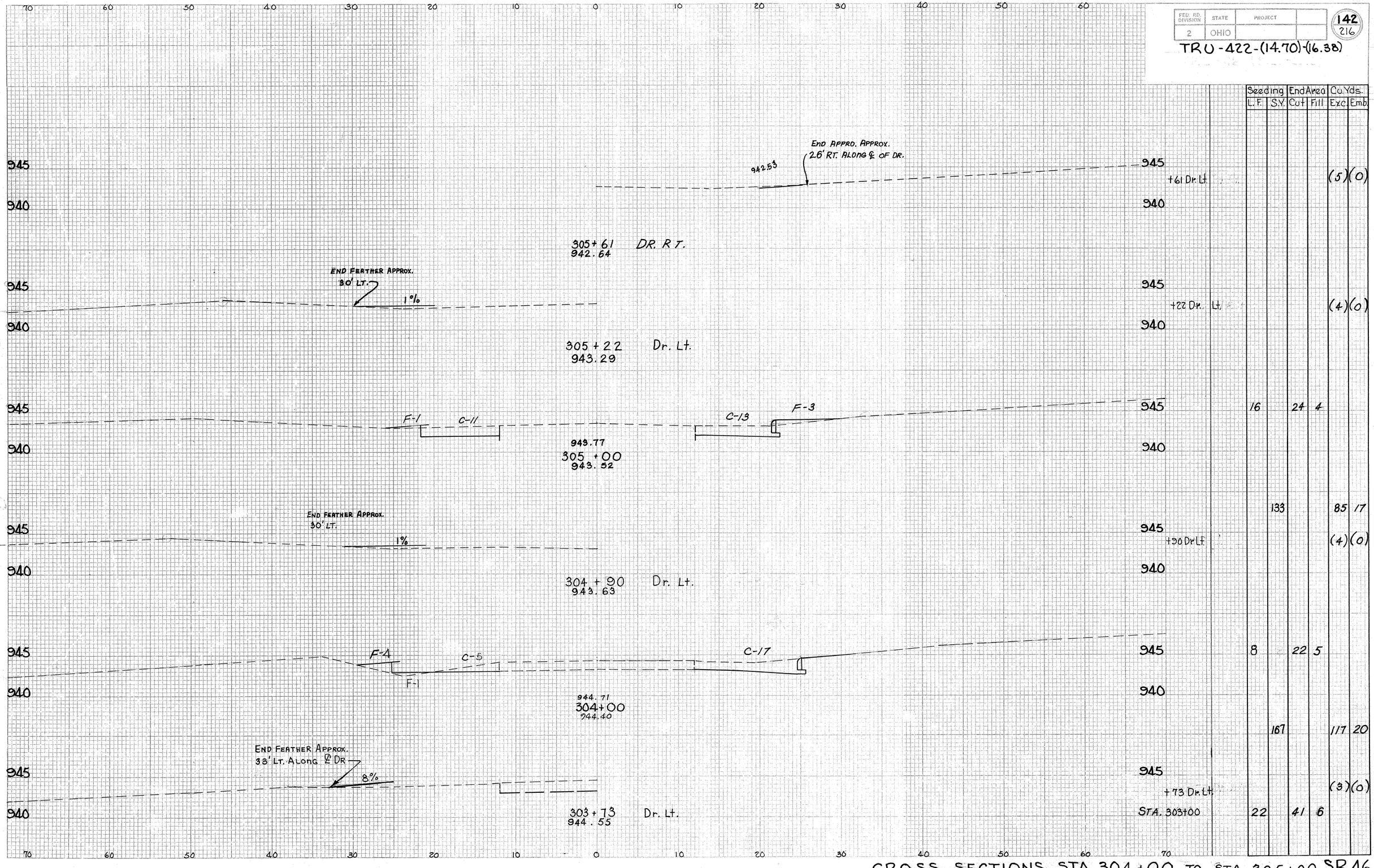
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

142
216

TRU-422-(14.70)-(16.38)

CROSS SECTION SHEET

	BY	DATE	CHECKED BY	DATE
SURVEYED	E.A.	2-6-70	L.A.	6-29-71
PLOTTED	K.W.	2-10-70	R.S.	3-13-70
TEMPLATE	F.M.L.	6-70		
TIMED	R.S.	3-13-70		7-1-71
END AREAS	L.A.	6-29-71	K.W.	
VOLUME TOTALS	K.W.	7-5-71	G.E.	



Seeding		End Area		Cu. Yds.	
L.F.	S.Y.	Cut	Fill	Exc.	Emb.
				(5)	(0)
				(4)	(0)
16		24	4		
133				85	17
				(4)	(0)
8		22	5		
167				117	20
				(3)	(0)
22		41	6		

CROSS SECTIONS STA. 304+00 TO STA 305+00 S.R. 46

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

143
216

TRU-422-(14.70)-(16.38)

70 60 50 40 30 20 10 0 10 20 30 40 50 60

935

308+00
939.94

END WORK
STA. 307+80

End Feather 18'Lt.

307+55 Dr.
939.66

935

F-1 C-2 F-2 C-3

940

935

930

940.58
307+00
940.23

940

2:1

941.27
306+60
940.87

945

940

941.79
306+30
941.49

945

941.72

END FEATHER APPROX.
24 Rt. ALONG ℄ OF DR.

2%

940

+19 Dr. Rt.

306+19 DR. RT.
941.69

945

F-6 C-7 F-1 C-6

940

942.31
306+00
942.04

STA. 305+00

70 60 50 40 30 20 10 0 10 20 30 40 50 60 70

Seeding		End Area		Cu. Yds.	
L.F.	S.Y.	Cut	Fill	Exc.	Emb.
0		0	0		
	94			7 (0)	5 (0)
21		5	3		
					(4) (0)
	200			33	19
15		13	7		
	172			69	20
16		24	4		

CROSS SECTION SHEET

BY	DATE	BY	DATE
E.A.	2-6-70	L.A.	6-29-71
K.W.	2-10-70	R.S.	3-15-70
R.S.	3-13-70	K.W.	6-29-71
L.A.	6-28-71		
K.W.	7-5-71		

CROSS SECTIONS STA. 306+00 TO STA. 308+00 S.R. 46

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

144
216

TRU. - 422 - (14.70) (16.38)

CROSS SECTION SHEET

	BY	DATE	CHECKED BY	DATE
SURVEYED				
PLOTTED				
TEMPLATE	RLM	6-28-71	KW	6-29-71
INKED	LA	6-29-71	L.A.	6-29-71
END AREAS	LA	6-29-71		
VOLUME TOTALS	KW			

70 60 50 40 30 20 10 0 10 20 30 40 50 60 70

935
930

F-1 F-1 C-2

932.14
1+00
931.93

935
930

F-1 F-2 C-5

934.11
0+50
933.90

935
930

F-2 C-1 F-4 C-6

935.14
0+31
934.58

940
935

2.22%

935.73
0+12
935.34

935

2.22%

935.82
0+00
935.65

ALSO ℄ S.R. 46 STA. 290+51.60

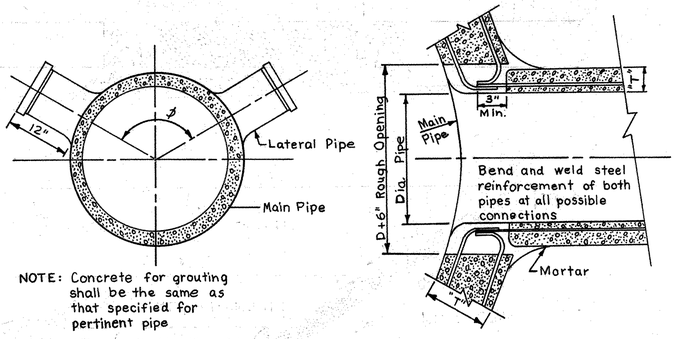
	Seeding		End Area		Cu. Yds.	
	L.F.	S.Y.	Cut	Fill	Exc.	Emb.
1+28 BACK	0		0	0		
		17			1	1
935						
	11		2	2		
930						
		72			7	5
935						
	15		5	3		
930						
		33			4	3
935	16		7	6		
0+31 Ahead Only 930						
940						
935						
935						
* Quantities Carried to Cross Section Sheet No 136 TOTALS		*122				*12 *9

CROSS SECTIONS MORELAND AVE. 0+00 To 1+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

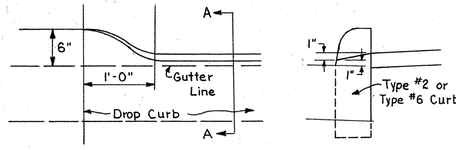
145/216

TRU - 422 - (14.70)-(16.38)

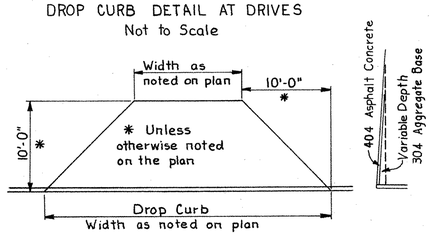


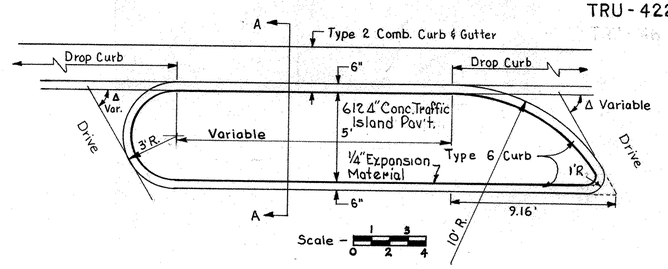
NOTE: Concrete for grouting shall be the same as that specified for pertinent pipe

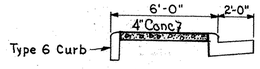
PRE-FABRICATED "T" CONNECTION
Not to Scale



DROP CURB DETAIL AT DRIVES
Not to Scale



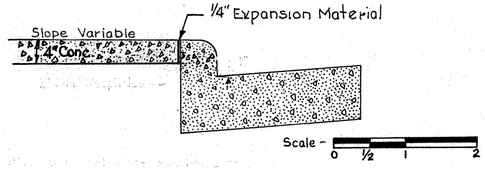




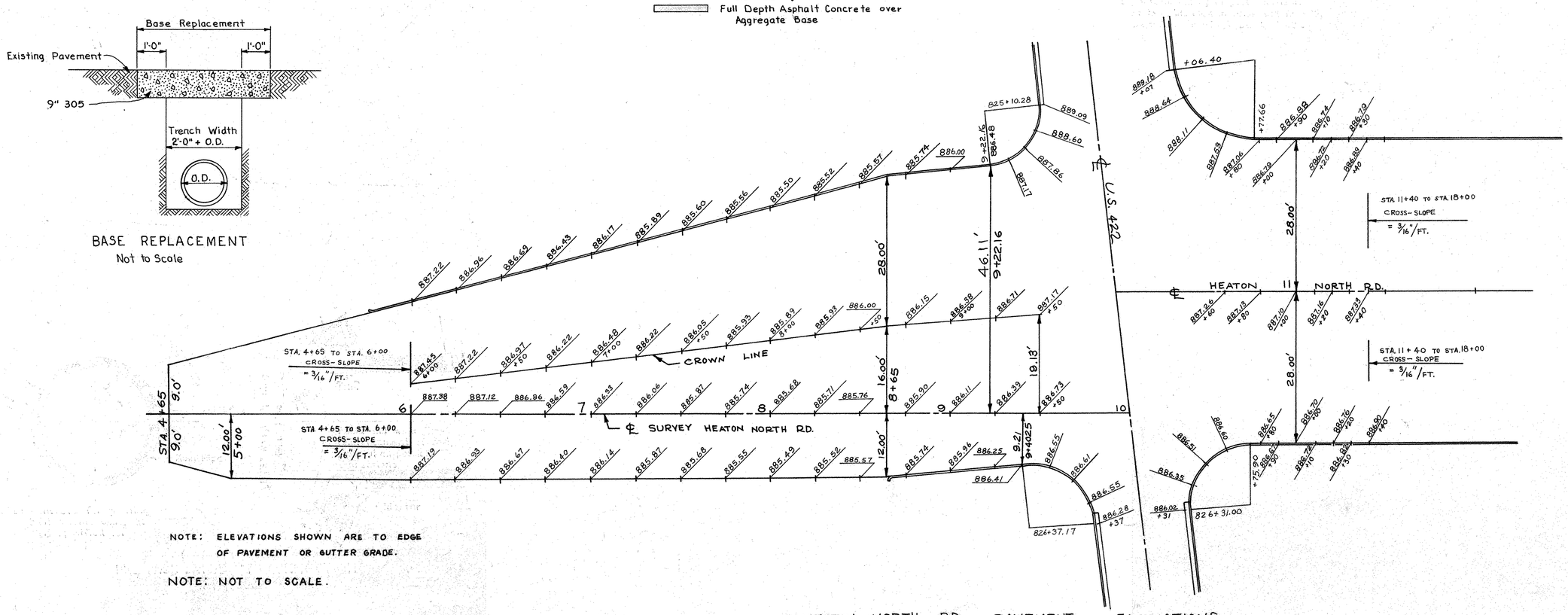
SECTION A-A

LEGEND
DRIVEWAY COMPOSITION

- Gravel
- Concrete
- Resurfacing (Asphalt Concrete over Existing Bituminous Concrete or Concrete)
- Aggregate Base & Asphalt Concrete over Existing Bituminous Concrete
- Full Depth Asphalt Concrete over Aggregate Base



BASE REPLACEMENT
Not to Scale



NOTE: ELEVATIONS SHOWN ARE TO EDGE OF PAVEMENT OR GUTTER GRADE.

NOTE: NOT TO SCALE.

HEATON-NORTH RD. PAVEMENT ELEVATIONS

LINE SHEET	BY	DATE	CHECKED
SURVEYED		-	
PLOTTED	L.F.T.	3-18-11	
INKED	L.F.T.	3-18-11	
DESIGNED			
QUANTITIES			

CHECKED BY DATE

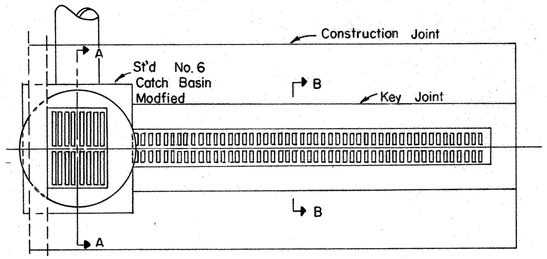
BRUNING 44-560 10943

DETAILS

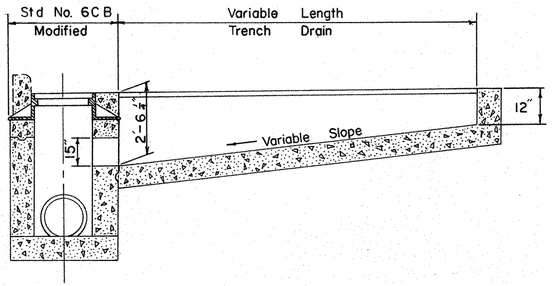
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

146
216

TRU-422-(14.70)-(16.38)



Plan



Profile

NOTES TRENCH DRAIN

CASTINGS shall meet the requirements of 604. Frames shall be heavy duty and as manufactured by East Akron Casting Company, Type L, or Neenah Foundry Company, Type L, or approved equal.

Grates shall be heavy duty and as manufactured by East Akron Casting Company, No. 420 or Neenah Foundry Company No. 4990F Type A, or approved equal.

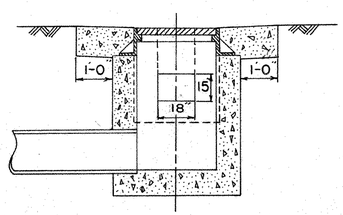
EXCAVATION AND BACKFILL shall meet the requirements of 604.

CONCRETE Cast in place to be class 'C' shall be as set forth under 499 and 511.

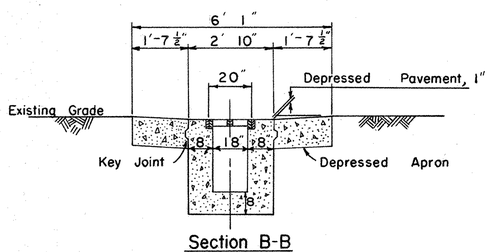
DEPRESSED APRON shall be of 9" thick class 'C' concrete. Payment for all labor and material required to construct the apron shall be included in the cost of the trench drain.

THE UNIT BID PRICE per Lin. Ft. for item Special Trench Drain, shall constitute full compensation for the furnishing of all labor, equipment, material and small tools and performing the excavating, forming, concreting installing the casting and backfilling.

FOR ADDITIONAL DETAILS of catch basin see Standard Drawing CB-6.



Section A-A



Section B-B

MODIFIED NO. 6 CATCH BASIN AND TRENCH BASIN

Not to scale

LINE SHEET

	BY	DATE
SURVEYED		
PLOTTED	D.203I	6/8/21
INKED		
DESIGNED		
QUANTITIES		
CHECKED BY		DATE

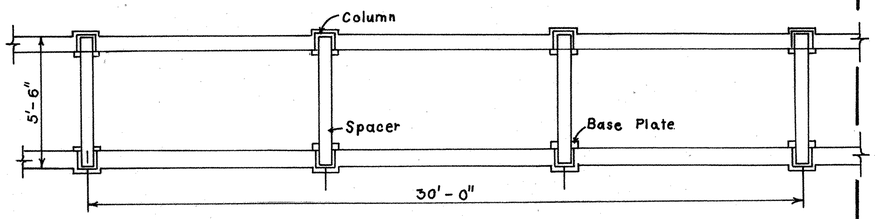
TRENCH DRAIN DETAIL

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

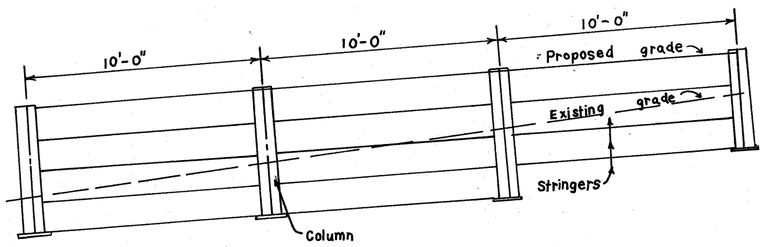
TRU-422-(14.70)-(16.38)

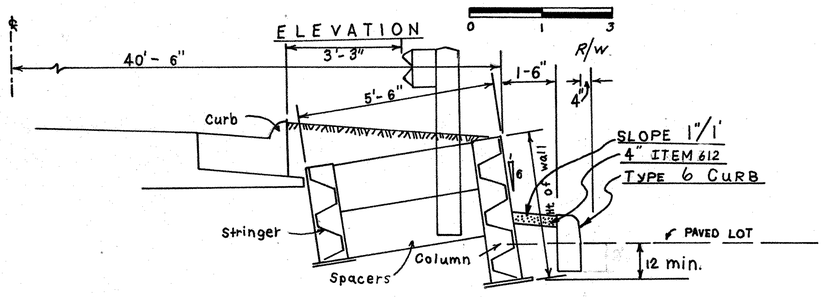
147
216

BIN TYPE RETAINING WALL
TYPICAL DETAILS

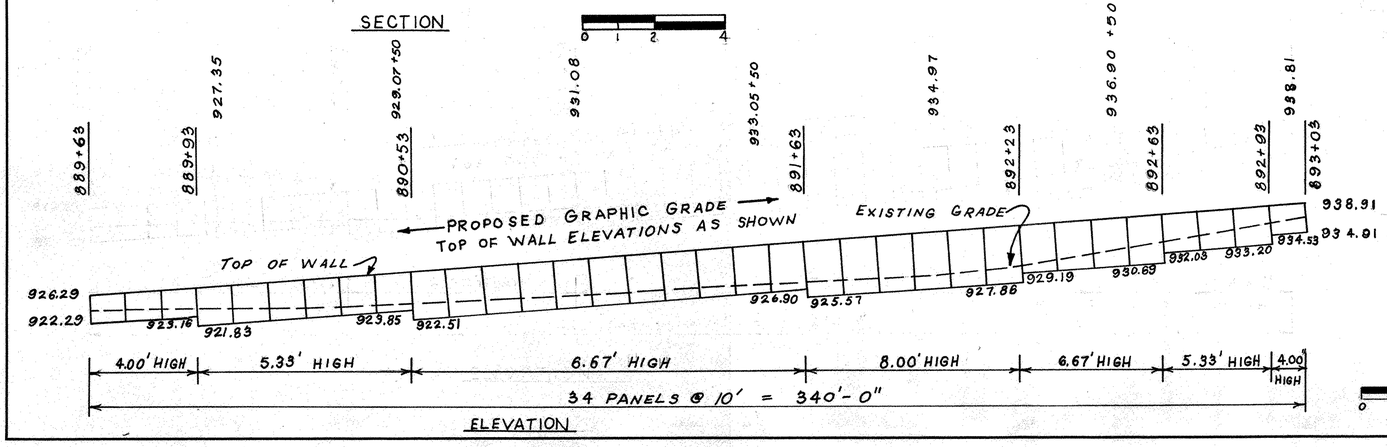


PLAN Scale: 0 1 2

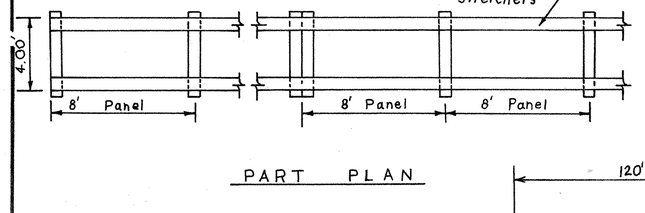




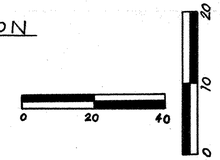
SECTION 0 1 2 4

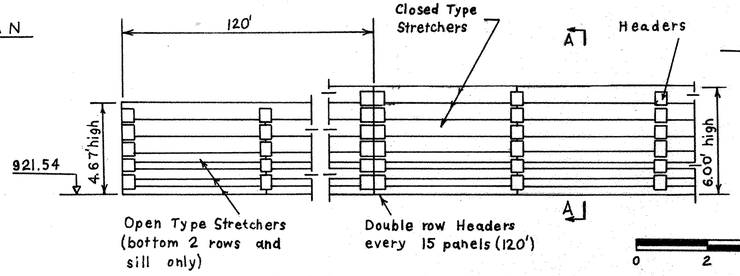


ELEVATION

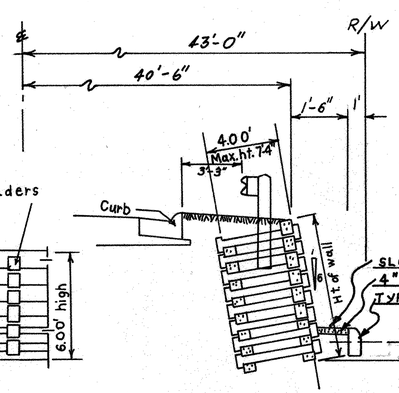


PART PLAN





PART ELEVATION



SECTION A-A
NOT TO SCALE

NOTE:
"CONTRACTOR MAY ELECT TO USE ITEM 610 CELLULAR RETAINING WALL (CONCRETE) SHOP DRAWINGS SHALL BE PROVIDED AND APPROVED BY THE CENTRAL OFFICE BRIDGE BUREAU BEFORE WORK IS STARTED ON THE RETAINING WALL.

ESTIMATED QUANTITY
FACIAL AREA
BIN TYPE 2120.2 ft.²

ITEM 610 CELLULAR RETAINING WALL (METAL)
TYPICAL DETAILS

	BY	DATE
SURVEYED	L. A.	6-22-71
PLOTTED	W. H.	6-15-71
INKED	W. H.	6-15-71
DESIGNED	R. L. M.	6-17-71
QUANTITIES	R. L. M.	6-17-71
CHECKED BY		
DATE		

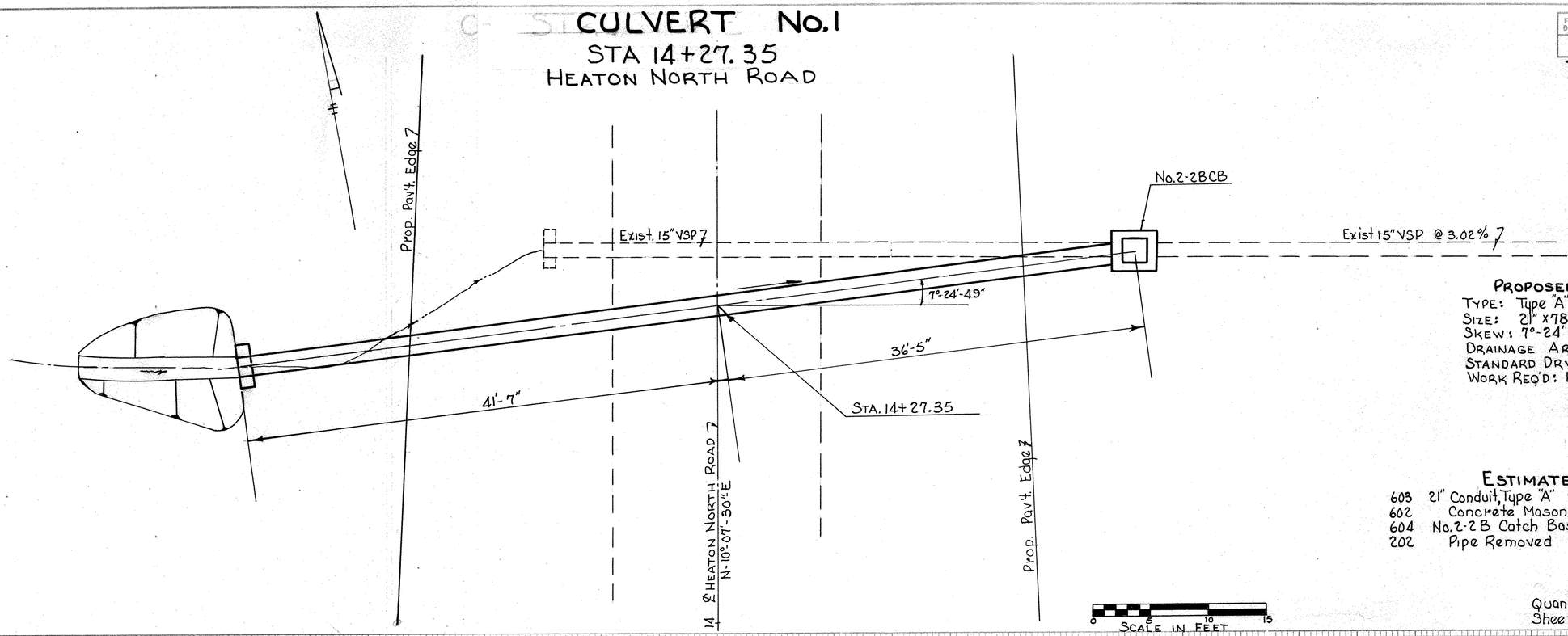
ITEM 610 - RETAINING WALLS

FED. RD DIVISION	STATE	PROJECT		
2	OHIO			

148
216

TRU-422 -(14.70)-(16.38)

CULVERT No.1
STA 14+27.35
HEATON NORTH ROAD



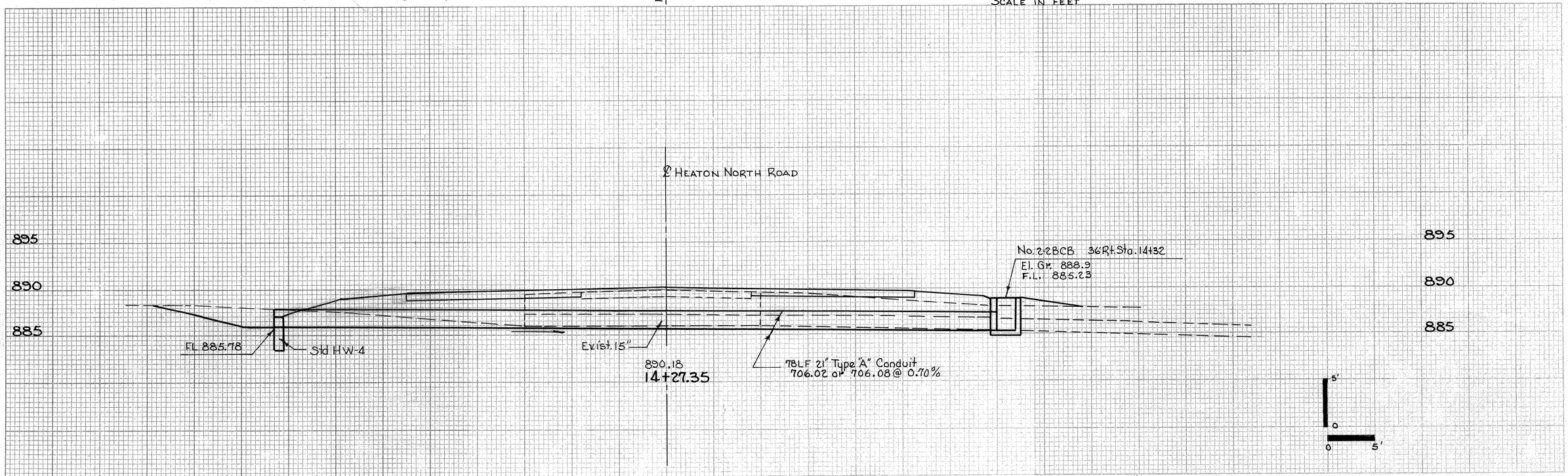
PROPOSED CULVERT DATA

TYPE: Type "A" Conduit 706.02 or 706.08
SIZE: 21" x78'-0"
SKEW: 7°-24'-49" R.F.
DRAINAGE AREA 15.8Ac. Q_{10} 17cfs
STANDARD DRWGS: HW-4 & 2-2B CB
WORK REQ'D: Remove Existing 15"VSP and replace with 78L.F. x21" Conduit with Std HW-4 End wall on Lt. and No 2-2 B C.B. on Rt.

ESTIMATED QUANTITIES

603	21" Conduit, Type "A" 706.02 or 706.08	78 Lin.Ft.
602	Concrete Masonry	0.39 Cu.Yds
604	No.2-2B Catch Basin	1 Each
202	Pipe Removed	50 Lin.Ft.

Quantities Carried to Table on Sheet No. 153



C-1 CULVERT DETAILS

LINE SHEET	BY	DATE	CHECKED BY	DATE
SURVEYED				
PLOTTED				
INKED	KW	4-9-71	NED	5-21
DESIGNED	WCH	2-22-71	NED	3-71
QUANTITIES	WCH	2-22-71		

FED. RD. DIVISION	STATE	PROJECT	FISCAL YEAR
2	OHIO		

149
216

TRU-422 -(14.70) - (16.38)

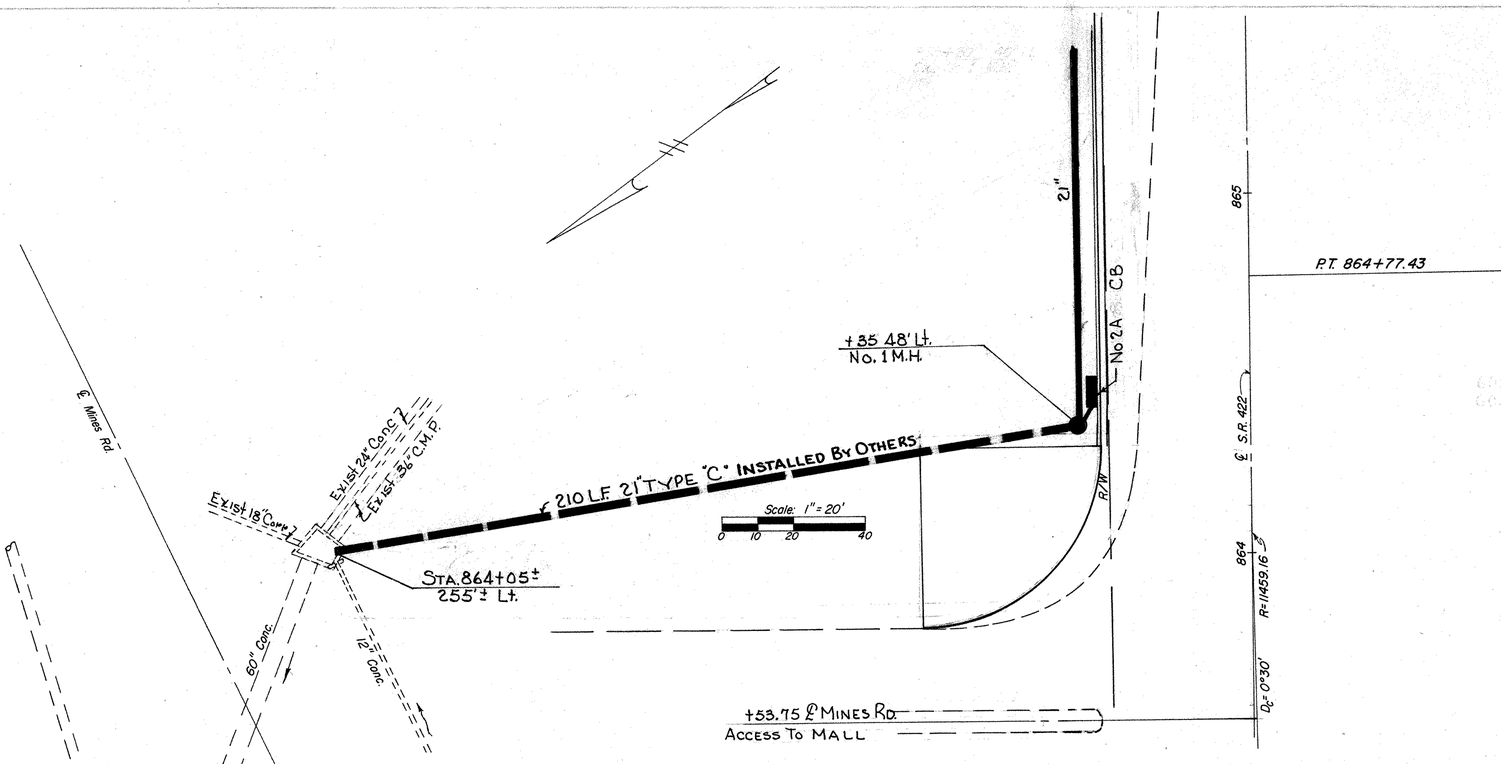
TRU-422 (13.31-13.70)

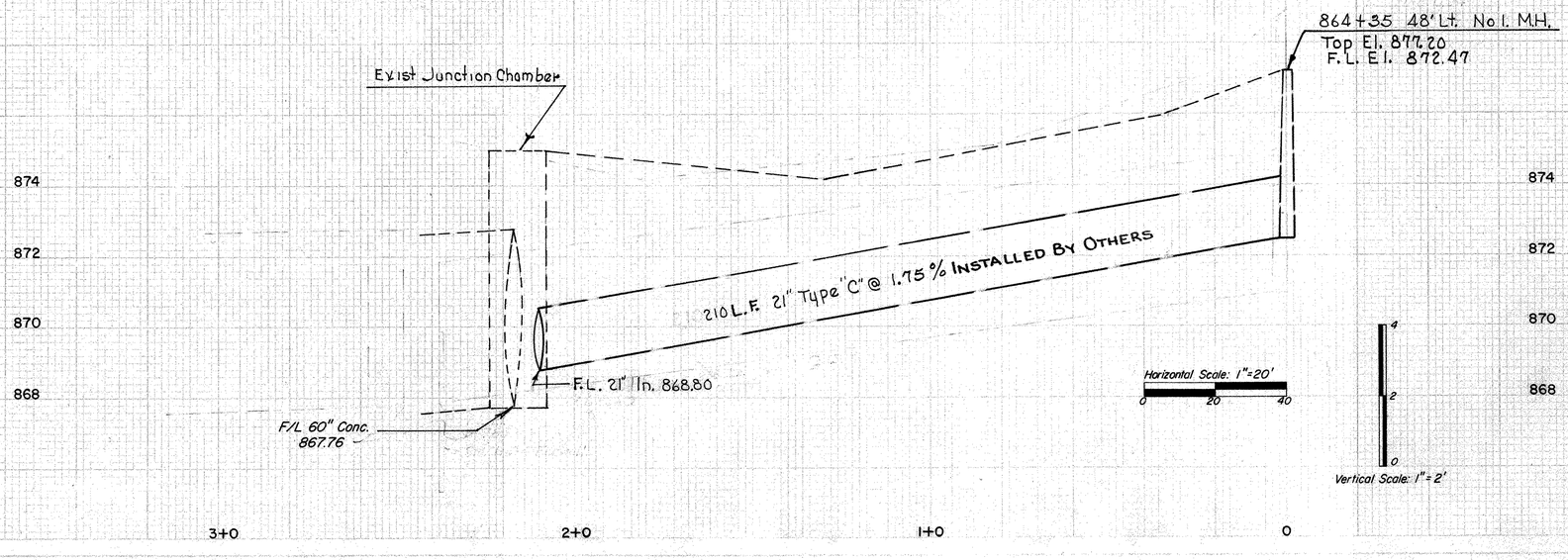
ESTIMATED QUANTITIES

605 [illegible] LF

622 [illegible] LF

LINE SHEET	BY	DATE	CHECKED BY	DATE
SURVEYED				
PLOTTED				
INKED	KM	4-6-71		
DESIGNED	HCM	1-27-70	NED	
QUANTITIES	HCM	1-27-70	NED	
	HCM	11-9-70		
	HCM	12-2-70		





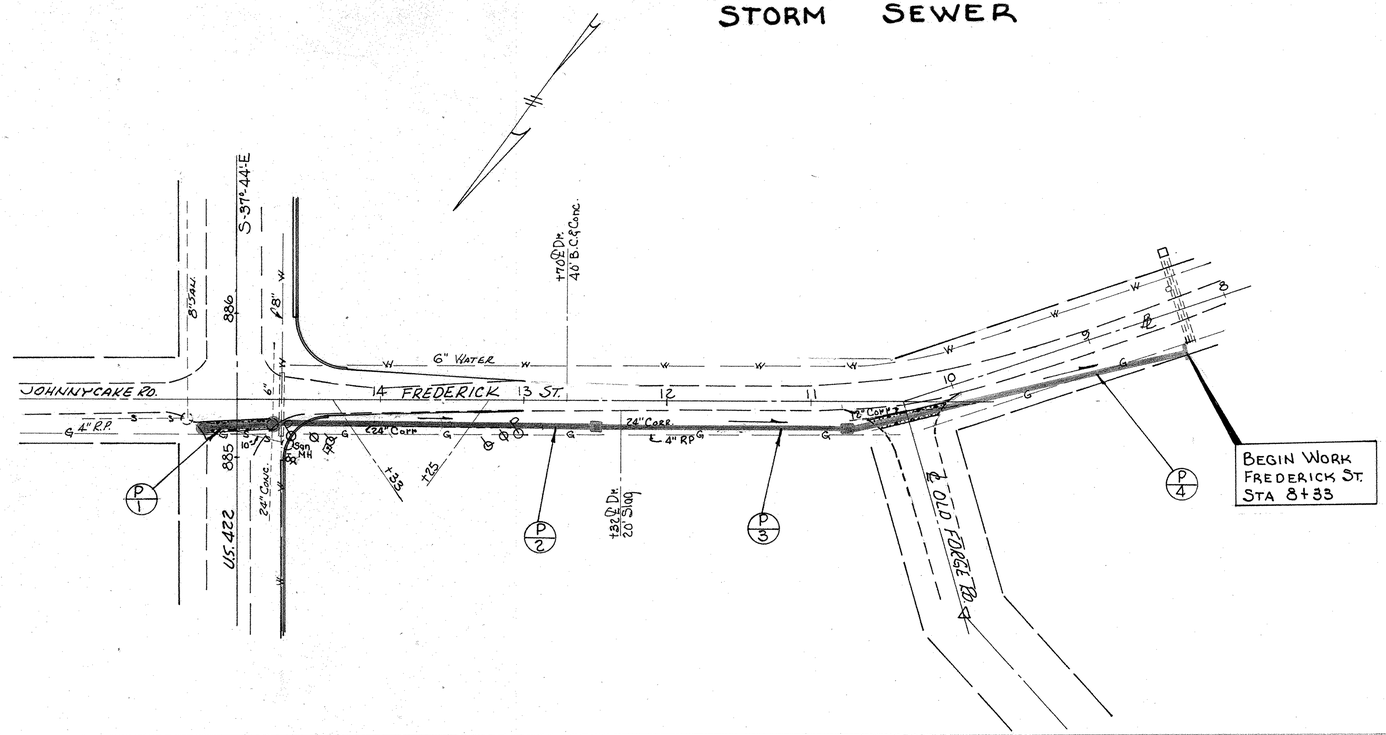
MINES ROAD DRAINAGE DETAILS

FREDERICK STREET
STORM SEWER

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

150
216

TRU-422-(14.70)-(16.38)

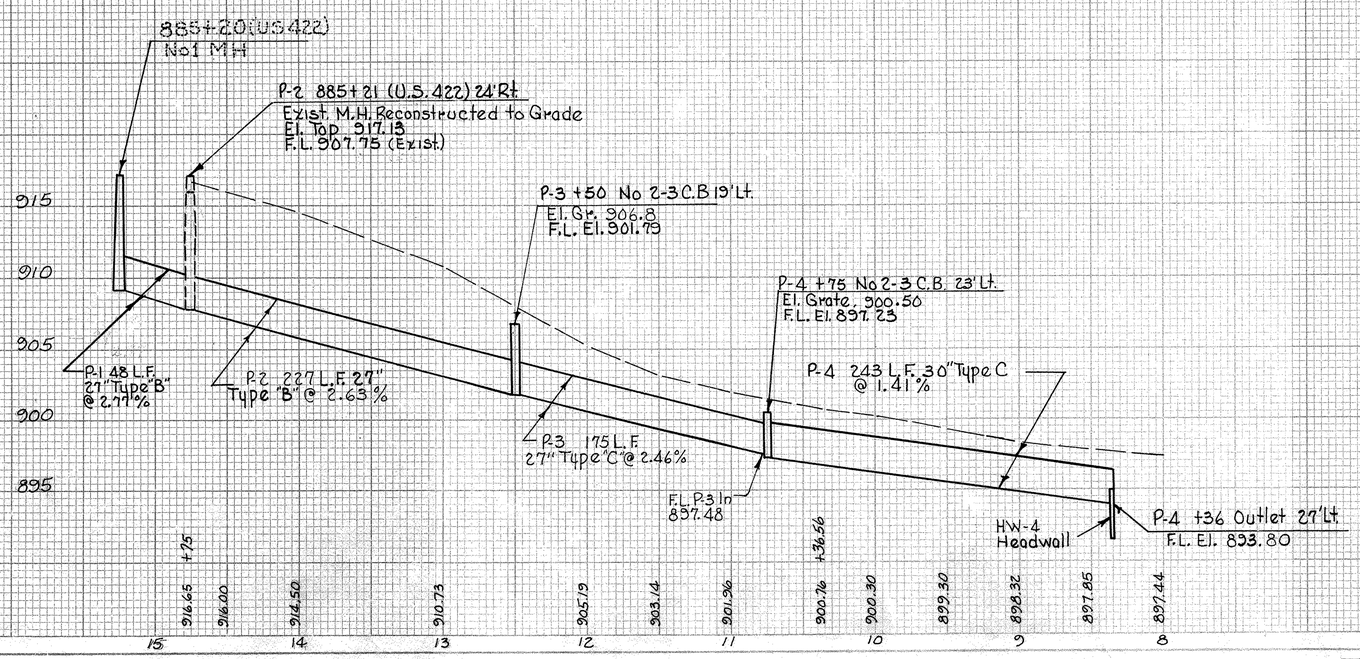


ESTIMATED QUANTITIES

603	27" Type "B" Conduit	275 L.F.
603	30" Type "C" Conduit	243 L.F.
604	Standard No. 2-3 Catch Basin	2 Eq.
604	Manhole Reconstructed to Grade	1 Eq.
602	Masonry	0.60 C.Y.
603	27" Type "C" Conduit *	175 L.F.
305	Portland Cement Concrete Base	71 S.Y.

* 706.01 ES, 906.02 Cl. II, 706.08 E.S. or 707.13

Quantities Carried to Table on Sheet No. 153



STORM SEWER DETAIL FREDERICK ST.

SURVEYED	BY	DATE
PLOTTED	FML	6-10-71
INKED	KW	
DESIGNED	WCH	
QUANTITIES	WCH	

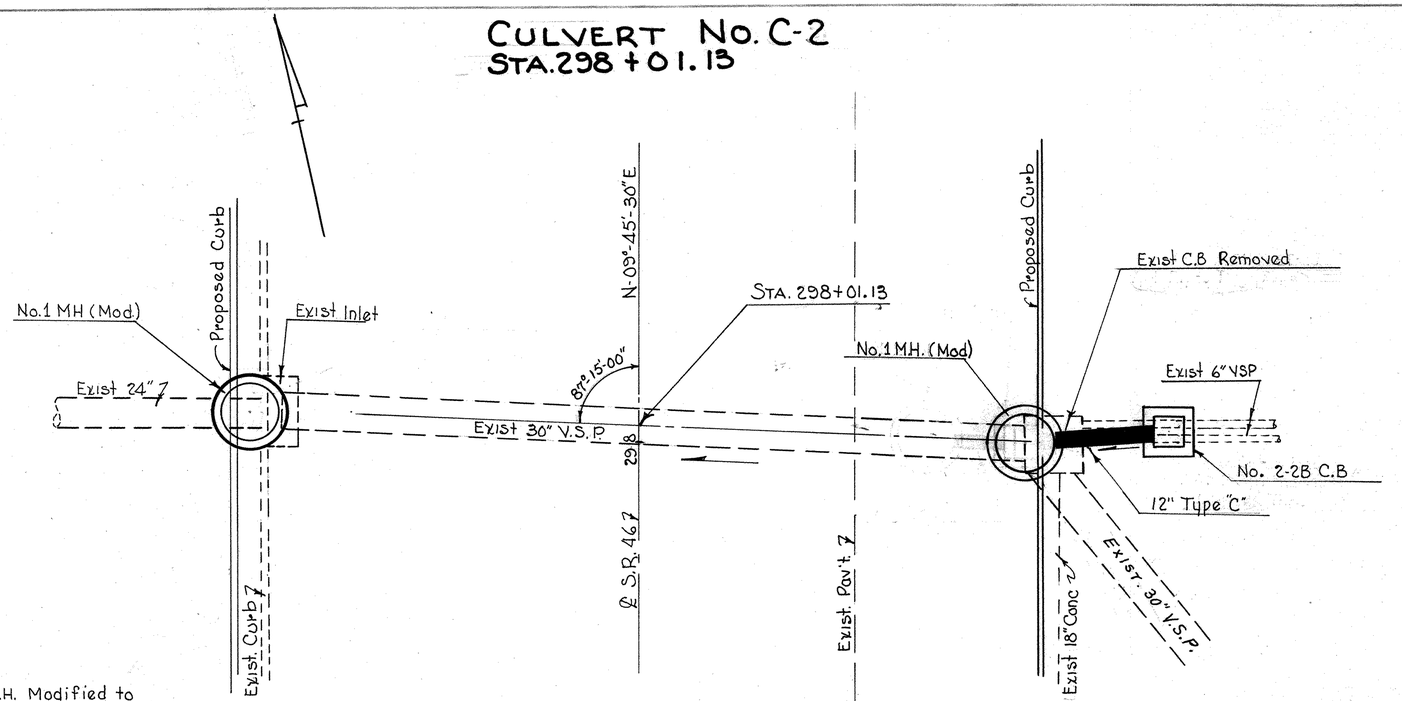
CHECKED BY: NED NED

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

151
216

TRU-422-(14.70)-(16.38)

CULVERT No. C-2
STA. 298 + 01.13



Note: No.1 M.H. Modified to Accomodate the Use of a No.6 Catch Basin Frame and Grate Lt. & Rt.

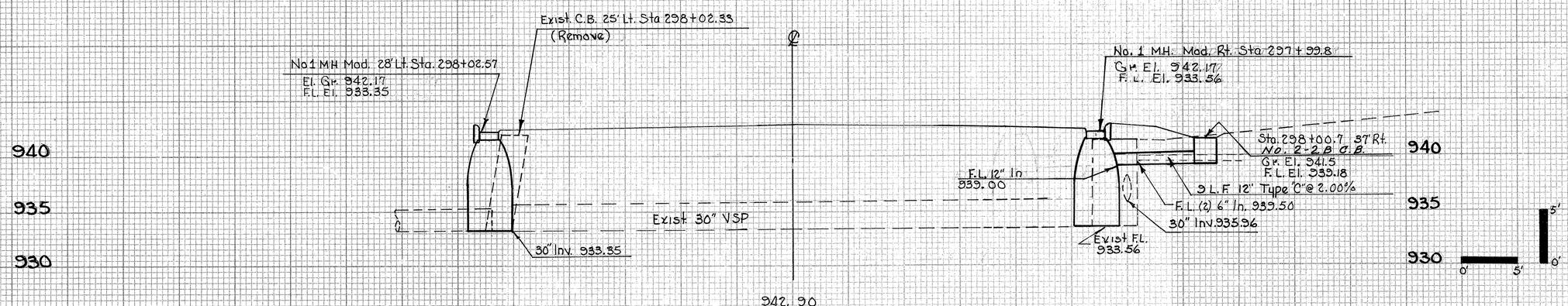
ESTIMATED QUANTITIES

202	Catch Basin Removed	2 Each
604	No.1 Man Hole, Modified	2 Each
603	12" Conduit Type "C"	9 Lin Ft.
604	No. 2-2B Catch Basin	1 Each

Quantities Carried to Table on Sheet No 153.

Note: Connect Existing Pipes To Proposed Manhole Sta. 297+99.8 Rt Cost to be Included in Price Bid For Item 604 Manhole Modified.

0 5 10 15 20
SCALE



942.90
298+01.13
CROSS OVER PROFILE

50 40 30 20 10 0 10 20 30 40

C-2 DRAINAGE DETAIL S.R.46

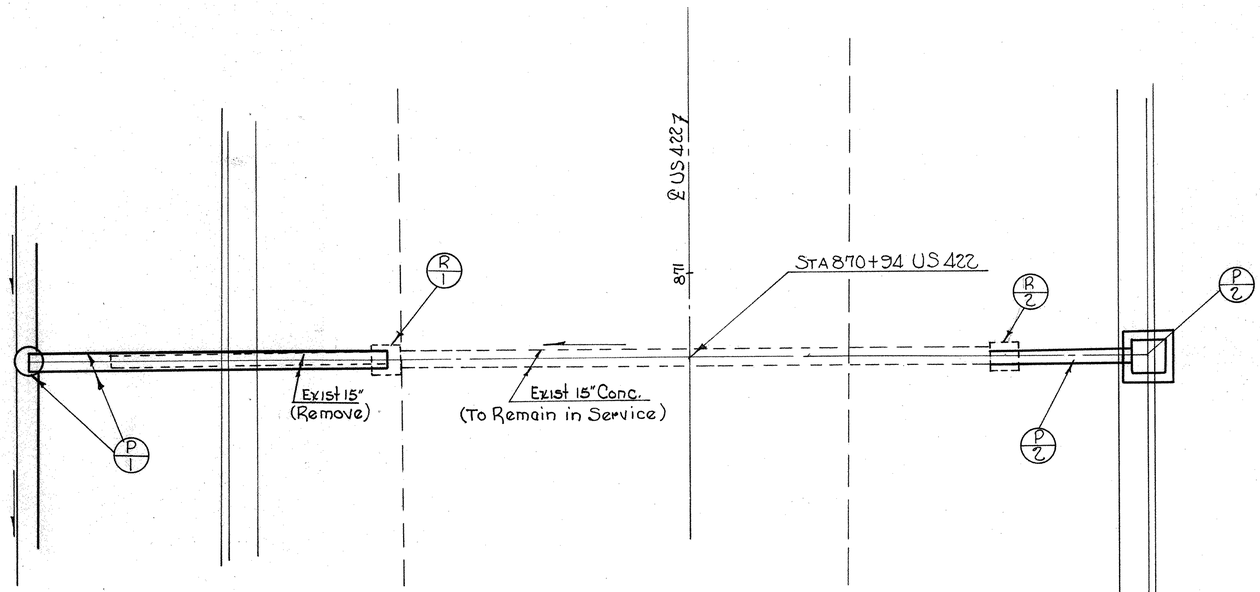
LINE SHEET	DATE	CHECKED BY	DATE
SURVEYED	2-10-71	CK	
PLOTTED	6-5-71	KW	6-8-71
INKED	3-22-71	WS	
DESIGNED		W.C.H.	
QUANTITIES			

CULVERT No. C-2
STA. 870 + 94

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

152
216

TRU-422-(14.70)-(16.38)

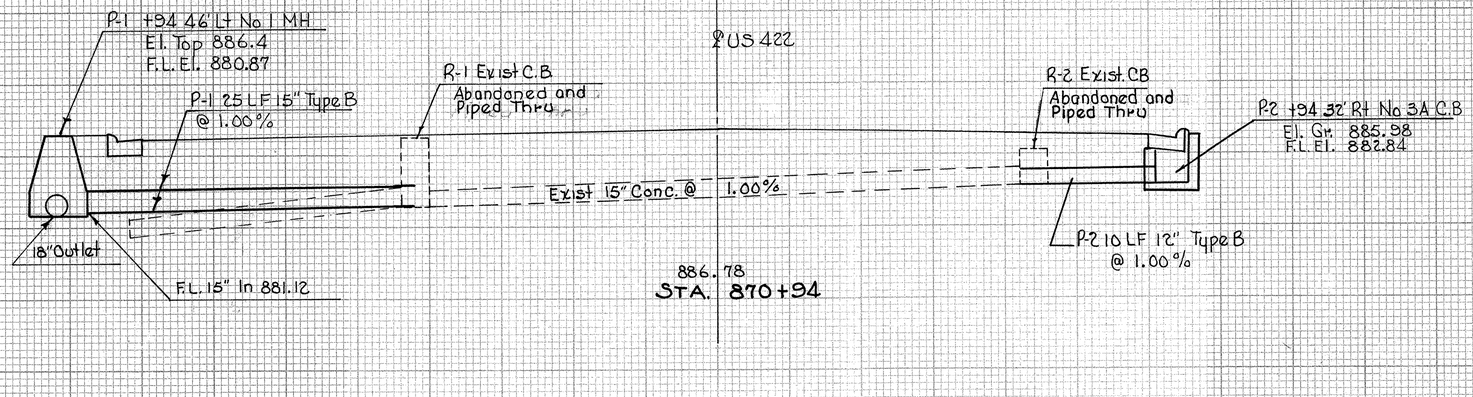


SCALE
0 5 10 20

ESTIMATED QUANTITIES

MARK	STATION	SIDE	603 Conduit Type "B" 12" L.F.	603 Conduit Type "B" 15" L.F.	604 No 1 MH Ea.	604 No 3A C.B. Ea.	202 C.B. Aband. Ea.
P-1	870+94	Lt.		25	1		
P-2	870+94	Rt.	10			1	
R-1	870+94	Lt.					1
R-2	870+94	Rt.					1
	TOTALS		10	25	1	1	2

Quantities carried to Table on Sheet No. 153.



SCALES
5 0 5

C-3 DRAINAGE DETAILS STA. 870+94

LINE SHEET

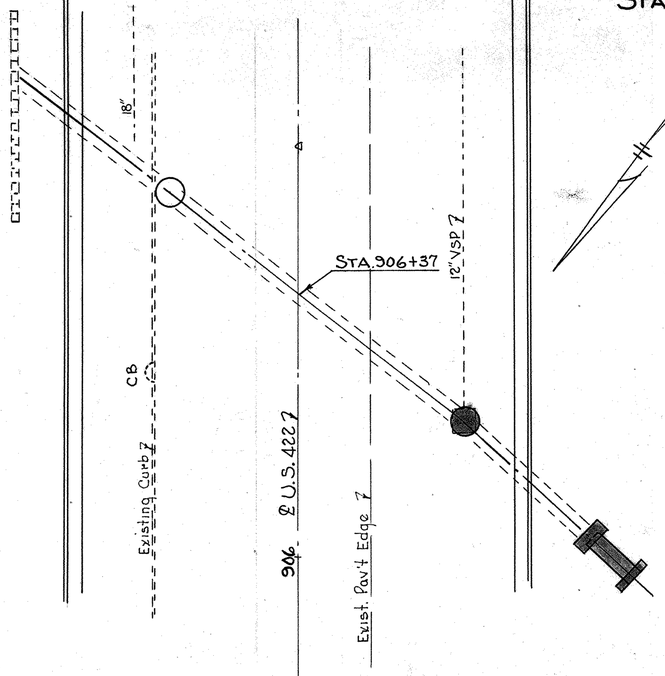
	BY	DATE
SURVEYED		
PLANS	KW	4/14/11
DRAWN	WCH	1/27/11
DESIGNED	NED	1/27/11
QUANTITIES	WCH	1/24/11
CHECKED	NED	4-3-11
DATE		4-3-11

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

153
216

TRU-422-(14.70)-(16.38)

CULVERT No. C-4
STA. 906 + 37



ESTIMATED QUANTITIES

603	30" Conduit Type "A" 706.02	8 L.F.
604	No.1 Manhole	1 Ea.
602	Concrete Masonry	1.04 C.Y.

WORK REQ'D: Build 30" Pipe Extension with Conc. Collar and Std. HW-4 Headwall. Build Std No.1 M.H. 23' Rt of Sta. 906+19.

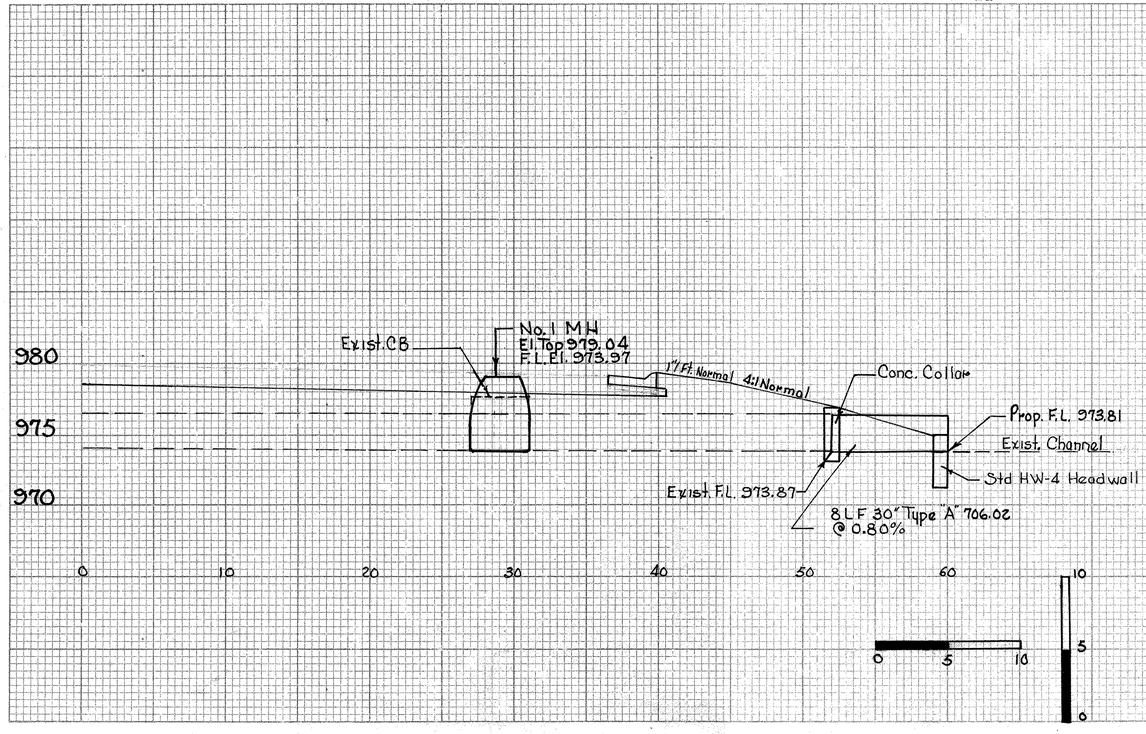
Quantities Carried to Table.

0 5 10 20 30
SCALE IN FEET

STRUCTURES 20' SPAN & UNDER

MARK		STATION	DRAINAGE AREA ACRES	Q c.f.s.	603 CONDUIT TYPE "A" 706.02 33" L.F.	603 CONDUIT TYPE "B" 12" L.F.	TYPE "B" 15" L.F.	TYPE "B" 27" L.F.	603 CONDUIT TYPE "C" 12" L.F.	TYPE "C" ★27" L.F.	TYPE "C" 30" L.F.	603 CONDUIT TYPE "A" 706.02 or 706.08 21" L.F.	TYPE "A" 706.02 30" L.F.	604 No. 2-2B C.B. Eq.	No. 2-3 C.B. Eq.	No 3-A. C.B. Eq.	604 No 1 M.H. Eq.	No. 1 M.H. Mod. Eq.	M.H. Recons. to Grd. Eq.	305 Part. Cem. Conc. Base S.Y.	602 Conc. Masonry C.Y.	202 CB Remd. Eq.	202 CB Aban. Eq.	202 Pipe Remd Under 24" L.F.	DETAIL SHEET No.
C-1		14+27.35 HEATON NORTH	15.8	17								78		1							0.39			50	148
		MINES RD.																							149
		9+65 to 15+25 FREDERICK ST.						275		175	243				2				1	71	0.60				150
C-2		298+01.13 S.R. 46							9					1				2				2			151
C-3		870+94				10	25									1	1						2		152
C-4		906+37											8				1				1.04				153
C-5		300+39.70 S.R. 46			6																1.17				155
TOTALS TO RECAP					6	10	25	275	9	175	243	78	8	2	2	1	2	2	1	71	3.20	2	2	50	

★706.01 E.S., 706.02, or 707.13 706.08 E.S.



C-4 DRAINAGE DETAIL

LINE & GRADE SHEET

BY	DATE
FML	11-70
KW	4-12-71
WCH	

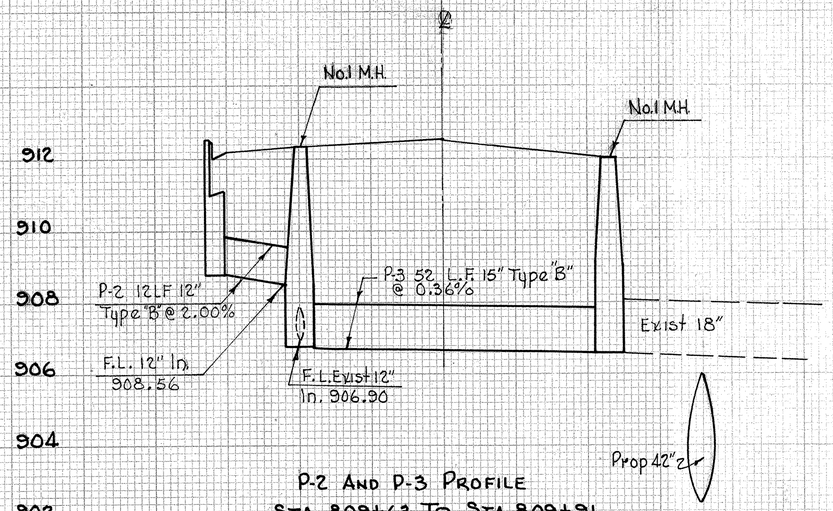
STARTED NED 4-71
PLOTTED
RECHECKED
DESIGNED
QUANTITIES

FED. NO. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

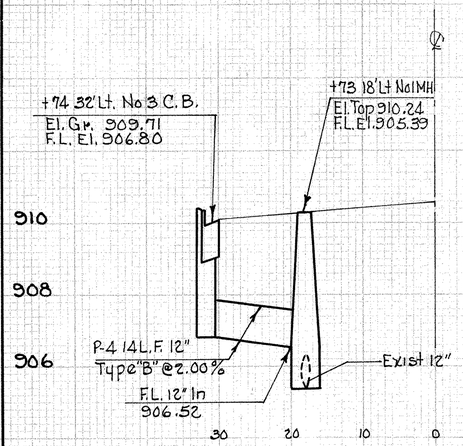
154
216

TRU-422-(14.70)-(16.38)

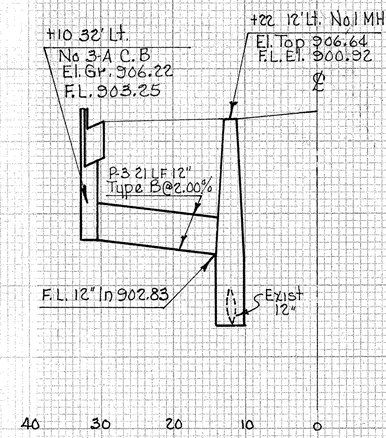
LINE SHEET	BY	DATE	CHECKED BY	DATE
SURVEYED	K.W.	3-9-69		
PLOTTED	K.W.	5-26-71		
INKED	W.C.H.		NED	
DESIGNED	W.C.H.		NED	
QUANTITIES	W.C.H.			



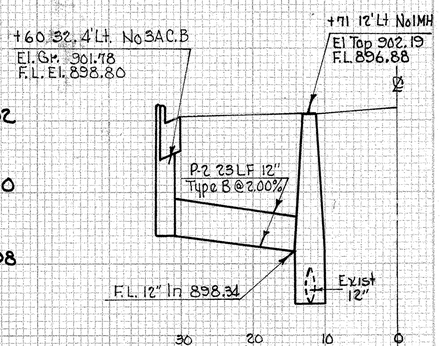
P-2 AND P-3 PROFILE
STA 809+63 TO STA 809+91



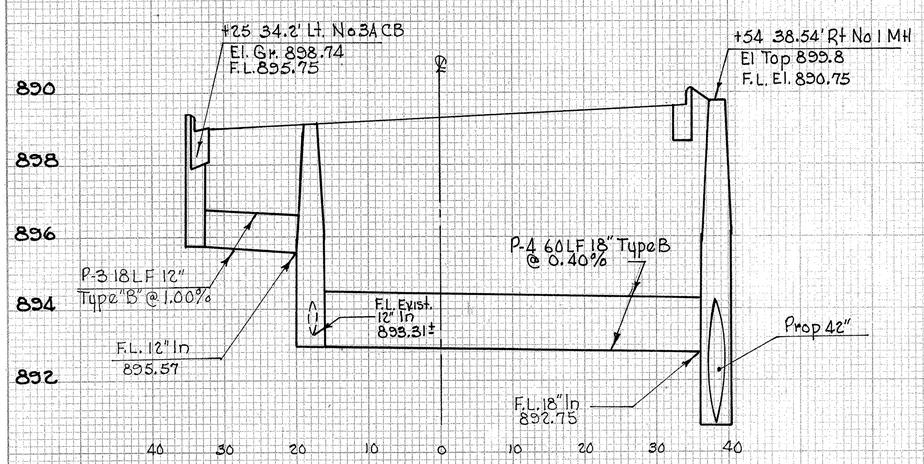
P-2 PROFILE
STA 812+74



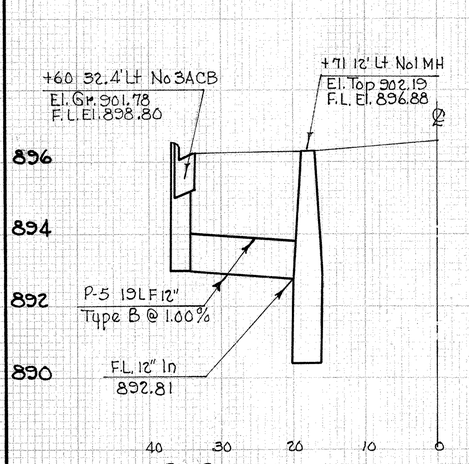
P-3 PROFILE
STA. 815+10 TO STA. 815+22



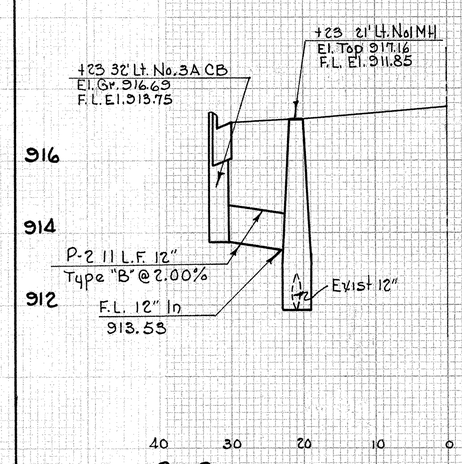
P-2 PROFILE
STA. 817+60 TO STA. 817+71



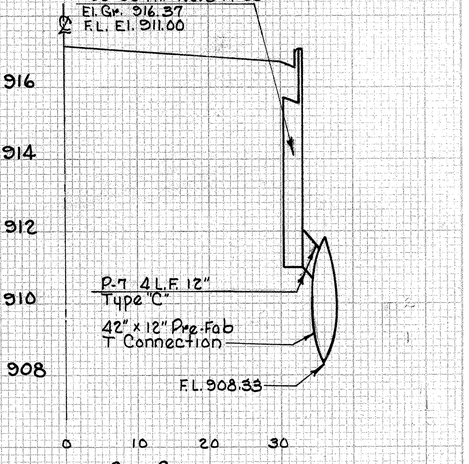
P-3 & P-4 CROSS OVER PROFILE
STA 819+25 TO STA 819+54



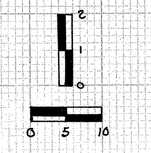
P-5 PROFILE
STA 821+10 TO STA 821+20



P-2 PROFILE
STA. 804+23



P-7 PROFILE
STA 804+65



SCALES

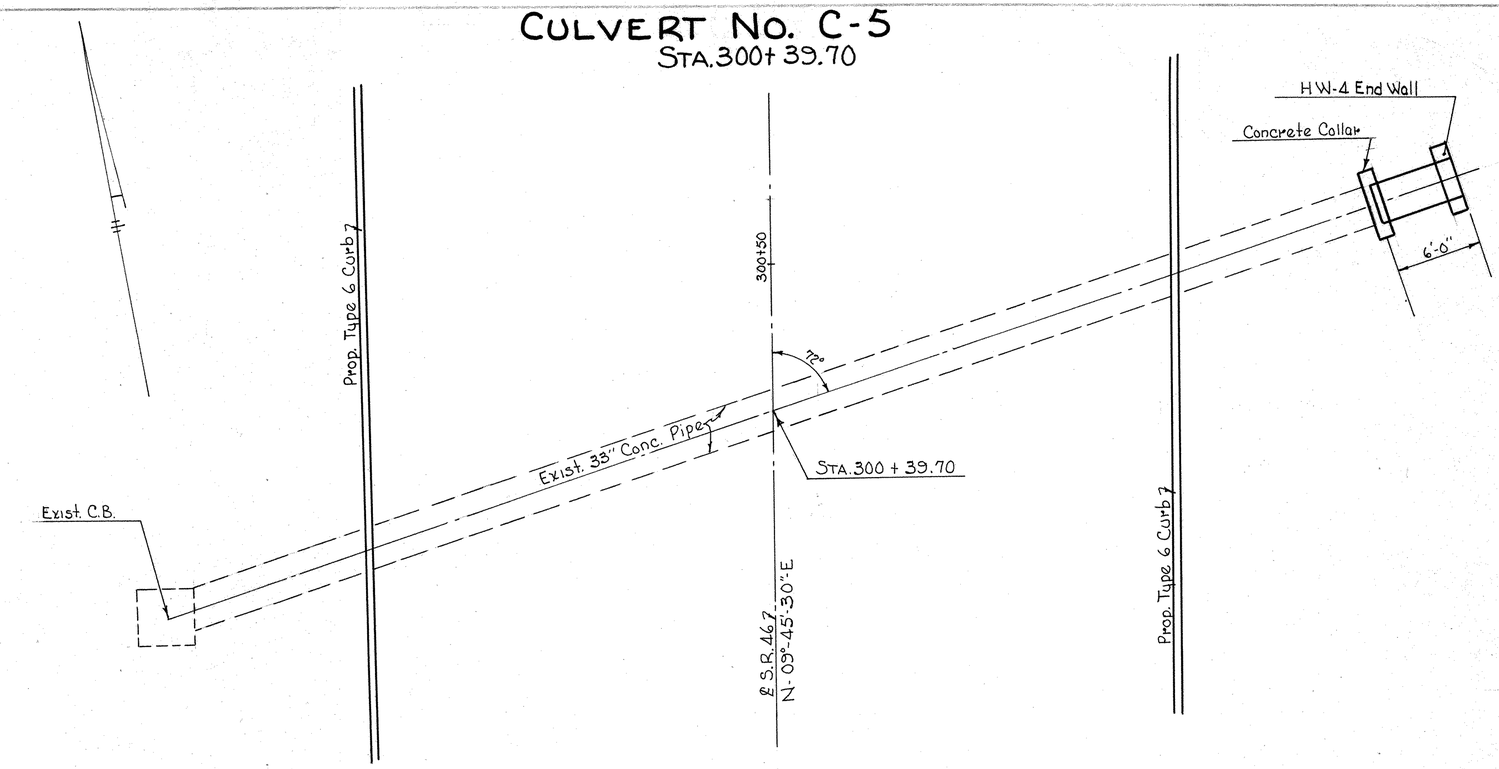
CROSS OVER DETAILS

CULVERT No. C-5
STA. 300+39.70

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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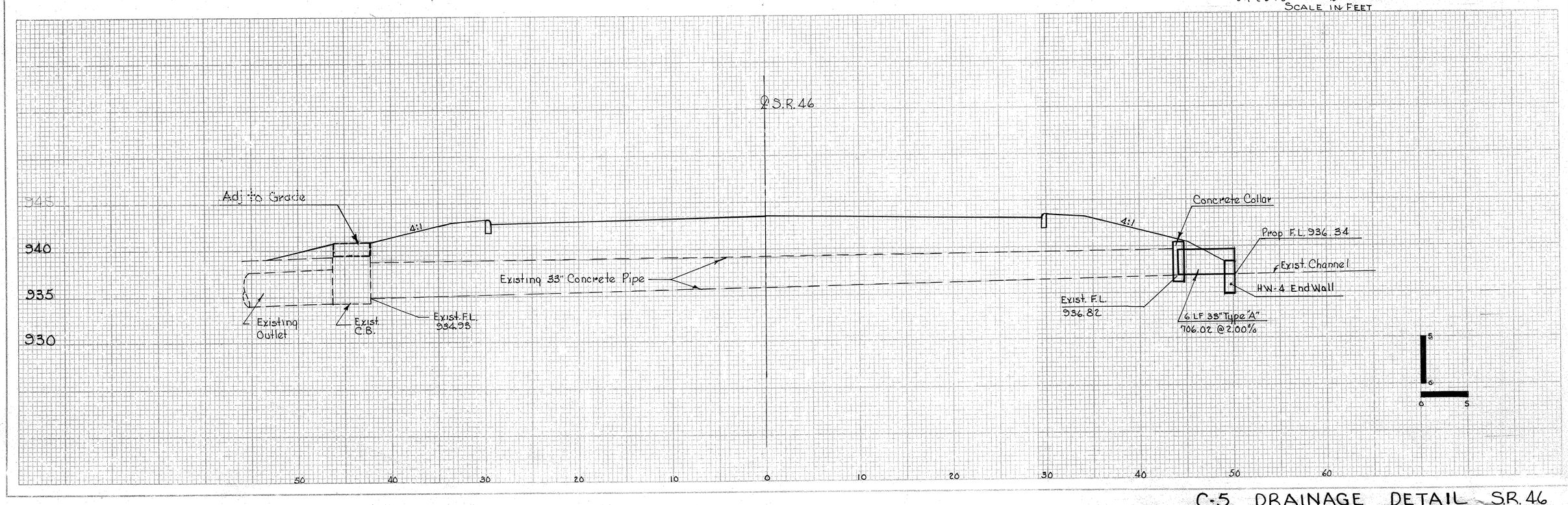


ESTIMATED QUANTITIES

603	33" Conduit Type "A" 706.02	6 L.F.
602	Concrete Masonry	1.17 C.Y.

Quantities Carried to Table on Sheet No. 153

SCALE IN FEET
0 1 2 3 4 5 10 15 20



C-5 DRAINAGE DETAIL SR. 46

LINE SHEET

BY	DATE	CHECKED BY	DATE
SURVEYED			
SUBMITTED			
DRAWN	K.W.H.	J.R.S.	8-17-71
TRACED	W.C.H.	R.E.D.	8-14-71
DESIGNED	W.C.H.	R.E.D.	8-14-71
QUANTITIES			

TRAFFIC CONTROL
GENERAL SUMMARY

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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* 100% State

ITEM	F-522 (27) 161A	161	158	159	160	172	173	174	175	176	177	178	179	180	181	182
202	*Lump															
621						0.23	0.26	0.20	0.17	0.25	0.55	0.15	0.25			
621						3356	3600	2800	2314	6058	3391	2453	4620			
621						137			41	107	93	134				
621						60		35	88	266	536	322				
621						143				2318		92	90			
621						0.18	0.26	0.19	0.14		0.25	0.10	0.24			
621												0.08				
621																8.00
815			288.8	439.5	249.0											
815			0													
816				31.57	23.6											
816			6.24													
816			748													
816					1											
816					1											
816					1											
816				1	1											
816																
816				2												
816				1												
816				2												
816				1												
816					1											
816				1												
816					1											
816				1												
816				1												
815		200														
816				2												

ITEM	T-4005(6) 161	182	160	158	159	171	172	173	174	175	176	177	178	179	180	181
621									0.05	0.09			0.09	0.05	0.07	0.15
621									620	1030			1218	600	2514	4868
621									45	48			90		67	76
621									538	900			915		676	977
621																208
621													0.02	0.04		
621															0.17	0.21
621		2.00														
815			165.0	199.1	45.0	180										
815				48.0												
816			23.6		3.93											
816				4.71												
816				590												
816						1										
816																
816						2										
816						1										
816																
816						1										
816																
816																
816																
816																
816																
815		100														
816																

SUB TOTAL F-522 (27)	SUB TOTAL T-4005(6)	ITEM	QUANT.	UNIT	DESCRIPTION TYPE CODE 6203
*Lump	—	202	*Lump	Lump	Removal of Existing Sign Installations, As Per Plan
2.06	0.50	621	2.56	Mile	4" Lane Line (Broken) White
28,592	10,850	621	39,442	Lin. Ft.	4" Barrier Line Yellow
512	326	621	838	Lin. Ft.	24" Stop Line White
1,307	4,006	621	5,313	Lin. Ft.	8" Channelizing Line White
2,643	208	621	2,851	Lin. Ft.	24" Transverse Stripe Yellow
1.36	0.06	621	1.42	Mile	4" Lane Line (Broken) Yellow
0.08	0.38	621	0.46	Mile	4" Edge Line White
8.00	2.00	621	10.00	Mile	Temporary 4" Lane Line
977.3	589.1	815	1566.4	S.F.	Sign Erection, Flat Sheet Type
0	48.0	815	48	S.F.	Sign Erection, Extru Sheet Type
55.17	27.53	816	82.7	C.Y.	Concrete For Overhead Sign Support Foundations
6.24	4.71	816	10.95	C.Y.	Concrete For Ground Mounted Sign Support Foundations
748	590	816	1338	L.F.	Structural Support, 41b. Post
1	0	816	1	Ea.	Span Wire Overhead Sign Support (70'-0" Span)
1	1	816	2	Ea.	" " " " " (74'-0" Span)
1	0	816	1	Ea.	" " " " " (76-0" Span)
2	2	816	4	Ea.	" " " " " (77'-0" Span)
0	1	816	1	Ea.	" " " " " (78'-0" Span)
2	0	816	2	Ea.	" " " " " (78'-6" Span)
1	0	816	1	Ea.	" " " " " (79'-0" Span)
2	1	816	3	Ea.	" " " " " (80'-0" Span)
1	0	816	1	Ea.	" " " " " (81'-0" Span)
1	0	816	1	Ea.	" " " " " (82'-0" Span)
1	0	816	1	Ea.	" " " " " (83'-0" Span)
1	0	816	1	Ea.	" " " " " (84'-6" Span)
0	1	816	1	Ea.	" " " " " (87'-0" Span)
1	0	816	1	Ea.	" " " " " (95'-0" Span)
1	0	816	1	Ea.	" " " " " (96'-6" Span)
200	100	815	300	S.F.	Interim Covering of Signs
2	0	816	2	Ea.	Span Wire Mounted Sign Attachment, As Per Plan

TRAFFIC CONTROL
GENERAL SUMMARY

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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ITEM	F-522(27) 161E	F-522(27) 162	F-522(27) 164	T-4005(6) 161E	T-4005(6) 163	T-4005(6) 165	SUB-TOTAL F-522(27)	SUB-TOTAL T-4005(6)	ITEM	QUANT.	UNIT	DESCRIPTION
												TYPE CODE 6203
816		2	4		4	2	6	6	816	12	Each	Signal Strain Pole (Type 13) 12" x 7.80" x 30' 3 Gage
816						1	0	1	816	1	Each	Signal Strain Pole 12" x 30', 0 Gage
816		4.66	9.32		9.32	7.50	13.98	16.82	816	30.80	C.Y.	Concrete for Signal Support Foundation
816			0.72		1.10	0.72	0.72	1.82	816	2.54	C.Y.	Concrete For Signal Controller Foundation
625		1					1	0	625	1	Each	Signal Controller Cabinet (04.3 C.F.) Pole Mounted
625			1			1	1	1	625	2	Each	Signal Controller Cabinet (07.7 C.F.)
625					1		0	1	625	1	Each	Signal Controller Cabinet (38.0 C.F.)
625			1				1	0	625	1	Each	Signal Controller (2 Phase semi-actiwated) Including interconnect equipment, installation only
625						1	0	1	625	1	Each	Signal Controller (3 Phase semi-activated) Including interconnect equipment, installation only
625					1		0	1	625	1	Each	Signal Controller (8 Phase Full Activated) installation only
625		1	2		9	8	3	17	625	20	Each	Loop Detector Amplifier
625		42	90		525	805	132	1330	625	1462	L.F.	" " Pavement Cutting
625		135	205		1165	1500	340	2665	625	3005	L.F.	" " Wire No. 14 AWG, RHW or RWW Type
625		40	450		2130	2390	490	4520	625	5010	L.F.	" " Lead in cable, No. 14 AWG, 2/c Twisted Pair, Shielded
625		317	290		355	205	607	560	625	1167	L.F.	Messenger Wire, 7 Strand (3/8") with Accessories
625		2	5		5	4	7	9	625	16	Each	Ground Rod
625		6	8		14	6	14	20	625	34	Each	Traffic Signal Head, 3 Section, 12" Lens, One Way
625						3	0	3	625	3	Each	" " " , " " " " Two "
625		6	8		14	8	14	22	625	36	Each	Covering of Traffic Signal Heads
625		180	120		410	210	300	620	625	920	L.F.	Signal Cable 5/c No. 14 AWG IMSA 19-1-67
625		90	210		500	280	300	780	625	1080	L.F.	" " 8/c " " " " "
625		2	1		2	2	3	4	625	7	Each	Cable Support Assembly
625		80	50		50	50	130	100	625	230	L.F.	Power Cable 3/c No. 8 AWG Stranded RHW or RHW Type (Weatherproof) As per plan
625		350					350	0	625	350	L.F.	Interconnect Cable 3/c No. 14 AWG IMSA 19-1-67
625			3725			215	3725	215	625	3940	L.F.	" " 4/c No. 14 " " "
625			180		300	360	180	660	625	840	L.F.	Conduit 3" 713.04 Type II or III
625		32	3910		740	880	3942	1620	625	5562	L.F.	Conduit 1½" 713.04 Type II or III
625	90			330			90	330	625	420	L.F.	Conduit Jacked Under Pavement, As Per Plan
625		32	3910		740	880	3942	1620	625	5562	L.F.	Trench
625		1	8		12	8	9	20	625	29	Each	Pull Box 18" Circular 713.09
625		1	1		1	1	2	2	625	4	Each	Maintenance of Existing Signal Installation, as per plan
202		1	1		1	1	2	2	202	4	Each	Removal of Existing Signal Installation, as per plan

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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TRU-422-(14.70)-(1638)

SUB-SUMMARY: GROUND-MOUNTED REGULATORY, WARNING AND GUIDE SIGNS, ETC.

STATION	LOCATION	REFERENCE SHEET No.	CODE NUMBER	SIGN SIZE (INCHES)	NET SIGN AREA (Sq. Ft.)	DESCRIPTION 815 SIGN ERECTION FLAT SHEET TYPE F-S.F	815 SIGN ERECTION FLAT SHEET TYPE T-S.F	815 SIGN ERECTION EXTRU SHEET TYPE Sq. Ft.	816 * CONCRETE FOR GROUND MOUNTED SIGN SUPPORT FOUNDATIONS F-C.Y.	816 * CONCRETE FOR GROUND MOUNTED SIGN SUPPORT FOUNDATIONS T-C.Y	816 ★ STRUCTURAL SUPPORT- 4 lb. Drive Post ** F-L.F	816 ★ STRUCTURAL SUPPORT- 4 lb. Drive Post ** T-L.F
774+57.60	U.S.R.422		N-1-40	40 X 20	5.6	5.6			.24		28.0	
775+00			R-69-24	24 X 30	5.0	5.0			.12		14.5	
776+60			R-1-30	30 X 30	5.3	5.3			.12		14.5	
777+44			R-9-24	24 X 30	5.0	5.0			.12		14.5	
778+50			R-10-24	24 X 30	5.0	5.0			.12		14.5	
779+01			W-26-36	36 X 36	9.0	9.0			.12		15.5	
780+00			R-69-24	24 X 30	5.0	5.0			.12		14.5	
780+35			R-69-24	24 X 30	5.0	5.0			.12		14.5	
782+52			R-1-30	30 X 30	5.3	5.3			.12		14.5	
784+52			R-69-24	24 X 30	5.0	5.0			.12		14.5	
785+00			W-26-36	36 X 36	9.0	9.0			.12		15.5	
788+52			R-69-24	24 X 30	5.0	5.0			.12		14.5	
789+00			R-69-24	24 X 30	5.0	5.0			.12		14.5	
793+00			R-69-24	24 X 30	5.0	5.0			.12		14.5	
794+00			R-69-24	24 X 30	5.0	5.0			.12		14.5	
797+50			R-10-24	24 X 30	5.0	5.0			.12		14.5	
799+03			R-69-24	24 X 30	5.0	5.0			.12		14.5	
801+76			R-69-24	24 X 30	5.0	5.0			.12		14.5	
802+00			R-10-24	24 X 30	5.0	5.0			.12		14.5	
803+50			R-69-24	24 X 30	5.0	5.0			.12		14.5	
806+50			R-69-24	24 X 30	5.0	5.0			.12		14.5	
810+05			W-47-36	36 X 36	9.0	9.0			.12		15.5	
810+84			R-69-24	24 X 30	5.0	5.0			.12		14.5	
812+00			R-10-24	24 X 30	5.0	5.0			.12		14.5	
813+50			R-69-24	24 X 30	5.0	5.0			.12		14.5	
815+00			R-69-24	24 X 30	5.0	5.0			.12		14.5	
816+25			W-47-48	48 X 48	16.0		16.0			.15		17.75
818+89			R-69-24	24 X 30	5.0		5.0			.12		14.5
819+00			R-69-24	24 X 30	5.0		5.0			.12		14.5
820+00			R-10-24	24 X 30	5.0		5.0			.12		14.5
822+40			R-32R-30	30 X 30	6.3		6.3			.12		15.0
823+50			M-37-40-24	24 X12	2.0		2.0					
			M-1-24	24 X24	4.0		4.0			.12		15.0
824+70			R-32R-30	30 X 30	6.3		6.3			.12		15.0
827+00			M-1-24	24 X24	4.0		4.0					
			M-38-39-24	24 X12	2.0		2.0			.12		15.0
828+50			R-10-24	24 X30	5.0		5.0			.12		14.5
829+50			R-69-24	24 X30	5.0		5.0			.12		14.5
830+84			R-32R-30	30 X30	6.3		6.3			.12		15.0
832+34			R-1-30	30 X30	5.3	5.3			.12		14.5	
834+24			R-69-24	24 X30	5.0	5.0			.12		14.5	
835+50			W-47-36	36 X 36	9.0	9.0			.12		15.5	
837+50			R-10-24	24 X30	5.0	5.0			.12		14.5	
838+10			R-69-24	24 X30	5.0	5.0			.12		14.5	
838+50			R-69-24	24 X30	5.0	5.0			.12		14.5	
841+25			R-10-24	24 X30	5.0	5.0			.12		14.5	
842+50			R-69-24	24 X30	5.0	5.0			.12		14.5	
843+25			R-69-24	24 X30	5.0	5.0			.12		14.5	
865+00			W-75-36	36 X 36	9.0	9.0			.12		15.5	
867+80			R-10-24	24 X30	5.0	5.0			.12		14.5	
868+50			R-10-24	24 X30	5.0	5.0			.12		14.5	
878+10			W-47-36	36 X 36	9.0	9.0			.12		15.5	
881+00 L			R-10-24	24 X30	5.0	5.0			.12		14.5	
881+00 R			R-10-24	24 X30	5.0	5.0			.12		14.5	
887+50			R-32R-30	30 X30	6.3	6.3			.12		15.0	
889+50			R-10-24	24 X30	5.0	5.0			.12		14.5	

STATION	LOCATION	REFERENCE SHEET No.	CODE NUMBER	SIGN SIZE (INCHES)	NET SIGN AREA (Sq. Ft.)	DESCRIPTION 815 SIGN ERECTION FLAT SHEET TYPE F-S.F	815 SIGN ERECTION FLAT SHEET TYPE T-S.F	815 SIGN ERECTION EXTRU SHEET TYPE F-S.F	815 SIGN ERECTION EXTRU SHEET TYPE T-S.F	816 * CONCRETE FOR GROUND MOUNTED SIGN SUPPORT FOUNDATIONS F-C.Y.	816 * CONCRETE FOR GROUND MOUNTED SIGN SUPPORT FOUNDATIONS T-C.Y.	816 ★ STRUCTURAL SUPPORT- 4 lb. Drive Post ** F-L.F	816 ★ STRUCTURAL SUPPORT- 4 lb. Drive Post ** T-L.F	816 F-L.F	816 T-L.F
889+70	U.S.R.422		M-2-24	24 X 24	4.0		4.0								
			M-17-24	24 X 12	2.0		2.0				.12		15.0		
893+08			R-32R-30	30 X 30	6.3		6.3				.12		15.0		
893+20			M-37-40-24	24 X 12	2.0		2.0								
			M-1-24	24 X 24	4.0		4.0				.12		15.0		
893+76			D-2-72	72 X 24	12.0				12.0		.24		28.0		
895+10			D-2-72	72 X 24	12.0				12.0		.24		28.0		
895+40			D-2-72	72 X 24	12.0				12.0		.24		28.0		
895+44			D-2-72	72 X 24	12.0				12.0		.24		28.0		
895+75			R-32R-30	30 X 30	6.3		6.3				.12		15.0		
896+01			M-1-24	24 X 24	4.0		4.0								
			M-38-39-24	24 X 12	2.0		2.0				.12		15.0		
900+00			R-10-24	24 X 30	5.0		5.0				.12		14.5		
901+25			M-17-24	24 X 12	2.0		2.0								
			M-2-24	24 X 24	4.0		4.0			.12			15.0		
907+00			R-10-24	24 X 30	5.0	5.0				.12		14.5			
907+40			R-10-24	24 X 30	5.0	5.0				.12		14.5			
913+00			W-53-36	36 X 36	9.0	9.0				.12		15.5			
916+25			R-10-24	24 X 30	5.0	5.0				.12		14.5			
917+00			R-10-24	24 X 30	5.0	5.0				.12		14.5			
918+00			W-60 -36	36 X 36	9.0	9.0				.12		15.5			
8+88	Heaton-North Road		W-60 -36	36 X 36	9.0		9.0				.12		15.5		
12+00			W-60 -36	36 X 36	9.0		9.0				.12		15.5		
287+80	S.R. 46		M-1-24	24 X 24	4.0		4.0								
			M-17-24	24 X 12	2.0		2.0				.12		15.0		
289+00			R-10-24	24 X 30	5.0		5.0				.12		14.5		
289+45			R-10-24	24 X 30	5.0		5.0				.12		14.5		
292+65			W-60 -36	36 X 36	9.0		9.0				.12		15.5		
295+38			M-38-24	24 X 12	2.0		2.0								
			M-2-24	24 X 24	4.0		4.0				.12		15.0		
297+30			M-2-24	24 X 24	4.0		4.0								
301+17			M-37-24	24 X 12	2.0		2.0				.12		15.0		
301+17			W-60C-36	36 X 36	9.0		9.0				.12		15.5		
306+70			R-10-24	24 X 30	5.0		5.0				.12		14.5		
306+73			M-17-24	24 X 12	2.0		2.0								
			M-1-24	24 X 24	4.0		4.0				.12		15.0		
826+25	U.S.R.422		N-1-40	40×20	5.6		5.6				.24		28.0		
829+50	U.S.R.422		R-69-24	24×30	5.0		5.0				.12		14.5		
853+33	U.S.R.422		W-60-36	36×36	9.0	9.0				.12		15.5			
SHEET TOTAL						288.8	199.1	0	48.0	6.24	4.71	748	5875		

★ Mounting height shall be 7' unless designated by ✱. Those so designated shall have a mounting height of 5'.
** Embed post in concrete, 12" in diameter and 48" deep
** Includes one foot slope allowance
T = T-4005(6) FUNDS
F = F-522(27) FUNDS

LINE SHEET

	BY	DATE	CHECKED BY	DATE
SURVEYED				
PLOTTED				
INKED				
DESIGNED				
QUANTITIES				

BRUNING 44-560 10943

SUB-SUMMARY: GROUND MOUNTED SIGNS U.S.R. 422, S.R. 46 & Heaton-North Rd.

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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TRU-422-(14.70)-(16.38)

SUB-SUMMARY: OVERHEAD SIGNS, SUPPORTS AND LOCATIONS

STATION	LOCATION	REFERENCE SHEET NO.	SIGN CODE NO.	SIGN SIZE	ACTUAL SIGN AREA	815 SIGN ERECTION FLATSHEET TYPE F-SQ.FT.	815 SIGN ERECTION FLATSHEET TYPE T-SQ.FT.	816 FOUNDATION CONCRETE CLASS C	816 STRAIN POLES 26 FT. 3 GAUGE	816 STRAIN POLES 28 FT. 3 GAUGE	816 SPAN WIRE OVERHEAD SIGN SUPPORT SPAN LENGTH	DISTANCE FROM ℄ STRAIN POLE TO FRONT FACE CURB LEFT	DISTANCE FROM ℄ STRAIN POLE TO FRONT FACE CURB RIGHT	EDGE OF PAVEMENT ELEVATION LEFT B	EDGE OF PAVEMENT ELEVATION RIGHT C	TOP OF FOUNDATION ELEVATION LEFT A	TOP OF FOUNDATION ELEVATION RIGHT D	BOTTOM OF FOUNDATION ELEVATION LEFT E	BOTTOM OF FOUNDATION ELEVATION RIGHT F	STRAIN POLE ℄ OFFSETS FROM ℄ U.S.R.422 LEFT	STRAIN POLE ℄ OFFSETS FROM ℄ U.S.R.422 RIGHT	STRAIN POLE ℄ OFFSETS FROM ℄ HEATON – NORTH RD. LEFT	STRAIN POLE ℄ OFFSETS FROM ℄ HEATON – NORTH RD. RIGHT	STRAIN POLE ℄ OFFSETS FROM S. R. 46 ℄ LEFT	STRAIN POLE ℄ OFFSETS FROM S. R. 46 ℄ RIGHT	Pave't. Width FACE TO FACE CURB	Shoulder Width LEFT	Shoulder Width RIGHT	Grd. Line El. at Fnd. Lt.	GRD. LINE EL. AT FND. Rt.	BIG SPAN WIRE MOUNTED SIGN ATTACHMENT AS PER PLAN EACH
				INCHES	SQ. FT.	F-SQ.FT.	T-SQ.FT.	CU.YDS.	EA.	EA.	FT.-IN.	FT.-IN.	FT.-IN.	FEET	FEET	FEET	FEET	FEET	FEET	FT.-IN.	FT.-IN.	FT.-IN.	FT.-IN.	FT.-IN.	FT.-IN.	Ft. In.	Ft. In.	Ft. In.			
776+31	U.S.R. 422		R-29A-30	30 X 36	7.5	7.5		3.93	2		79-0 F	5-0	10-6	974.42	974.41	975.25	975.60	967.75	968.10	36-6	42-6					63-6			974.7	975.1	
			R-30A-30	30 X 36	7.5	7.5																								
800+10	U.S.R. 422		R-29A-30	30 X 36	7.5	7.5		3.93		2	80-0 F	6-6	9-6	919.83	919.83	920.33	919.83	912.83	912.33	38-6	41-6					64-0			919.8	919.3	
			R-30A-30	30 X 36	7.5	7.5																								
			R-50-36	36 X 48	12.0	12.0																								
			R-50-36	36 X 48	12.0	12.0																								
			R-30A-30	30 X 36	7.5	7.5																								
			R-29A-30	30 X 36	7.5	7.5																								
821+90	U.S.R. 422		R-29A-30	30 X 36	7.5	7.5		3.93	2		96-6 F	11-6	13-0	895.11	895.90	894.90	895.20	887.40	887.70	47-6	49-0					72-0			894.4	894.7	
			R-30A-30	30 X 36	7.5	7.5																								
			R-49-36	36 x 60	15.0	15.0																								
			R-26A-30	30 X 36	7.5	7.5																								
			R-30A-30	30 X 36	7.5	7.5																								
			R-30A-30	30 X 36	7.5	7.5																								
			R-27A-30	30 X 36	7.5	7.5																								
827+75	U.S.R. 422		R-27A-30	30 X 36	7.5		7.5	3.93		2	95-0 T	11-6	9-6	882.39	882.74	881.50	882.74	874.00	875.24	59-6	35-6					74-0			881.0	882.2	
			R-30A-30	30 X 36	7.5		7.5																							
			R-30A-30	30 X 36	7.5		7.5																							
			R-26A-30	30 X 36	7.5		7.5																							
			R-30A-30	30 X 36	7.5		7.5																							
			R-29A-30	30 X 36	7.5		7.5																							
833+69	U.S.R. 422		R-29A-30	30 X 36	7.5	7.5		3.93		2	81-0 F	7-0	10-0	872.03	872.22	872.36	872.25	864.86	864.75	45-0	36-0					64-0			871.8	871.7	
			R-30A-30	30 X 36	7.5	7.5																								
			R-26A-30	30 X 36	7.5	7.5																								
			R-49-36	36 X 60	15.0	15.0																								
			R-30A-30	30 X 36	7.5	7.5																								
			R-29A-30	30 X 36	7.5	7.5																								
845+40	U.S.R. 422		R-29A-30	30 X 36	7.5	7.5		1.96	1		77-0 F	5-6	Existing	868.35		868.70		861.20		43-0	34-0					65-0			868.2		
			R-30A-30	30 X 36	7.5	7.5																								
			R-26A-30	30 X 36	Existing																										
			R-30A-30	30 X 36	7.5	7.5																								
			R-29A-30	30 X 36	7.5	7.5																								
852+68	U.S.R. 422		R-29A-30	30 X 36	7.5	7.5		Existing																		73-0					1
			R-28A-30	30 X 36	7.5	7.5																									1
			R-26A-30	30 X 36	Existing																										
			R-30A-30	30 X 36	Existing																										
			R-30A-30	30 X 36	Existing																										
866+45	U.S.R. 422		R-27A-30	30 X 36	7.5	7.5		3.93		2	83-0 F	3-0	6-0	880.17	880.32	881.00	880.50	873.50	873.00	45-0	38-0					74-0			880.5	880.0	
			R-30A-30	30 X 36	7.5	7.5																								
			R-30A-30	30 X 36	7.5	7.5																								
			R-30A-30	30 X 36	7.5	7.5																								
			R-29A-30	30 X 36	7.5	7.5																								
874+00			R-27A-30	30 X 36	7.5	7.5		2.10*	2		78-6 F	1-6	3-0	890.56	890.72	891.75	891.50	883.75	883.50	43-6	35-0					74-0			891.5	891.0	
			R-30A-30	30 X 36	7.5	7.5																								
			R-30A-36	36 X 48	12.0	12.0																								
			R-50-36(2)	36 X 48	24.0	24.0																								
			R-30A-30	30 X 36	7.5	7.5																								
			R-29A-30	30 X 36	7.5	7.5																								
882+50	U.S.R. 422		R-29A-30	30 X 36	7.5	7.5		3.93		2	78-6 F	5-0	9-6	912.81	911.87	913.00	911.53	905.50	904.03	37-0	41-6					64-0			912.5	911.0	
			R-30A-30	30 X 36	7.5	7.5																								
			R-50-36	36 X 48	12.0	12.0																								
			R-50-36	30 X 36	7.5	7.5																								
			R-30A-30	30 X 36	7.5	7.5																								
			R-29A-30	30 X 36	7.5	7.5																								
887+80	U.S.R. 422		R-29A-30	30 X 36	7.5	7.5		3.93	2		80-0 F	5-9	3-0	922.20	922.12	923.45	922.70	915.95	915.20	39-0	41-0					71-3			922.9	922.2	
			R-30A-30	30 X 36	7.5	7.5																								
			R-49-36	30 X 36	7.5	7.5																								
			R-30A-30	30 X 36	7.5	7.5																								
			R-30A-30	30 X 36	7.5	7.5																								
			R-51-36	36X60	15.0	15.0																								
			SHEET TOTAL			439.5	45.0	31.57-F 3.93-T																							2-F 0-T

* 24" Diameter Foundation Lt. & Rt.

For Locations of Dimensions A, B, C, D, E, & F See Sheet 171

T= T-4005(6)
F= F-522(27)

LINE SHEET

	BY	DATE	CHECKED BY	DATE
SURVEYED				
PLOTTED				
INKED				
DESIGNED				
QUANTITIES				

BRUNING 44-560 10943

SUB-SUMMARY: OVERHEAD SIGN SUPPORTS U.S.R. 422, S.R. 46 & Heaton-North Rd.

SUB-SUMMARY: OVERHEAD SIGNS, SUPPORTS AND LOCATIONS

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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TRU-422-(14.70)-(16.38)

STATION	LOCATION	REFERENCE SHEET NO.	SIGN CODE NO.	SIGN SIZE	ACTUAL SIGN AREA	815 SIGN ERECTION FLATSHEET TYPE		816 FOUNDATION CONCRETE CLASS C	STRAIN POLES 26 FT. 3 GAUGE	STRAIN POLES 28 FT. 3 GAUGE	816 SPAN WIRE OVERHEAD SIGN SUPPORT SPAN LENGTH	DISTANCE FROM ℄ STRAIN POLE TO FRONT FACE CURB LEFT	DISTANCE FROM ℄ STRAIN POLE TO FRONT FACE CURB RIGHT	EDGE OF PAVEMENT ELEVATION LEFT B	EDGE OF PAVEMENT ELEVATION RIGHT C	TOP OF FOUNDATION ELEVATION LEFT A	TOP OF FOUNDATION ELEVATION RIGHT D	BOTTOM OF FOUNDATION ELEVATION LEFT E	BOTTOM OF FOUNDATION ELEVATION RIGHT F	STRAIN POLE ℄ OFFSETS FROM ℄ U.S.R.422 LEFT	STRAIN POLE ℄ OFFSETS FROM ℄ U.S.R.422 RIGHT	STRAIN POLE ℄ OFFSETS FROM ℄ HEATON – NORTH RD. LEFT	STRAIN POLE ℄ OFFSETS FROM ℄ HEATON – NORTH RD. RIGHT	STRAIN POLE ℄ OFFSETS FROM S.R. 46 ℄ LEFT	STRAIN POLE ℄ OFFSETS FROM S.R. 46 ℄ RIGHT	Pave't. Width Face To Face Curb	Shoulder Width LEFT	Shoulder Width RIGHT	Grd. Line El. at Fnd. Lt.	Grd. Line El. at Fnd. Rt.
				INCHES	SQ. FT.	F-SQ. FT.	T-SQ. FT.	CU. YDS.	EA.	EA.	FT.-IN.	FT.-IN.	FT.-IN.	FEET	FEET	FEET	FEET	FEET	FEET	FT.-IN	FT.-IN.	FT.-IN.	FT.-IN.	FT.-IN.	FT.-IN.	Ft. In.	Ft. In.	Ft. In.		
887+80	U.S.R. 422		R-27A-30	30 X 36	7.5	7.5																							
891+55	U.S.R. 422		R-29A-30	30 X 36	7.5	7.5		3.93	2		76-0 F	3-9	4-3	933.39	933.39	934.20	933.90	926.70	926.40	37-9	38-3					68-0			933.7	933.4
			R-30A-30	30 X 36	7.5	7.5																							
			R-26A-30	30 X 36	7.5	7.5																							
			R-26A-30	30 X 36	7.5	7.5																							
			R-30A-30	30 X 36	7.5	7.5																							
			R-30A-30	30 X 36	7.5	7.5																							
			R-27A-30	30 X 36	7.5	7.5																							
897+80	U.S.R. 422		R-27A-30	30 X 36	7.5		7.5	3.93		2	80-0 T	3-7	5-3	956.37	956.60	957.03	957.25	949.53	949.74	46-0	34-0					71-2			956.5	956.7
			R-30A-30	30 X 36	7.5		7.5																						
			R-30A-30	30 X 36	7.5		7.5																						
			R-26A-30	30 X 36	7.5		7.5																						
			R-30A-30	30 X 36	7.5		7.5																						
			R-29A-30	30 X 36	7.5		7.5																						
908+75	U.S.R. 422		R-29A-30	30 X 36	7.5	7.5		3.93		2	74-0	4-6	5-6	987.10	987.10	987.68	987.50	980.18	980.00	36-6	37-6					64-0			987.1	987.0
			R-30A-30	30 X 36	7.5	7.5																							
			R-50-36	36 X 48	12.0	12.0																							
			R-50-36	36 X 48	12.0	12.0																							
			R-30A-30	30 X 36	7.5	7.5																							
			R-29A-30	30 X 36	7.5	7.5																							
919+00	U.S.R. 422		R-29A-30	30 X 36	7.5	7.5		3.93		2	77-0 F	6-6	6-6	1031.27	1031.27	1032.70	1031.44	1025.20	1023.94	38-6	38-6					64-0			1032.2	1030.9
			R-30A-30	30 X 36	7.5	7.5																							
			R-49-36 / R-51-36	36×60(2)	15.0 / 15.0	15.0 / 15.0																							
8+84	Heaton-North Rd.		R-26A-30	30 X 36	7.5		7.5	3.93			74-0 T	9-0	9-0	885.82	885.82	888.50	886.80	881.00	879.30			54-0	20-0			56-0			888.0	886.3
			R-30A-30	30 X 36	7.5		7.5																						
			R-27A-30	30 X 36	7.5		7.5																						
13+73	Heaton-North Rd.		R-27A-30	30 X 36	7.5		7.5	3.93		2	87-0 T	14-6	16-6	889.29	889.29	890.50	888.50	883.00	881.00			42-6	44-6			56-0			890.0	888.0
			R-30A-30	30 X 36	7.5		7.5																						
			R-26A-30	30 X 36	7.5		7.5																						
29+20	S.R. 46		R-26A-30	30 X 36	7.5		7.5	3.93		2	77-0 T	11-6	10-6	935.95	935.97	935.00	939.50	927.50	932.00					39-0	38-0	55-0			934.5	939.0
			R-30A-30	30 X 36	7.5		7.5																						
			R-29A-30	30 X 36	7.5		7.5																						
300+15	S.R. 46		R-29A-30	30 X 36	7.5		7.5	3.93		2	77-0 T	12-0	9-0	942.70	942.70	941.50	944.50	934.00	937.00					40-0	37-0	56-0			941.0	944.0
			R-30A-30	30 X 36	7.5		7.5																						
			R-26A-30	30 X 36	7.5		7.5																						
778+17	U.S.R. 442		R-51-36	36×60	15.0	15.0		3.93	2		70-0 F	4-3"	1-9"	966.80	966.96	968.35	968.85	960.85	961.35	36-3	33-9					64-0			967.9	968.4
			R-49-36	36×60	15.0	15.0																							
			R-30-30	30×36	7.5	7.5																							
			R-30A-30	30×36	7.5	7.5																							
819+00	U.S.R. 442		R-51-36	36×60	15.0	15.0		3.93		2	82-0 F	4'-0"	10'-0"	889.33	900.53	900.00	900.10	892.50	892.60	38'-0"	44'-0"					68-0			899.5	899.6
864+70	U.S.R. 442		R-49-36	36×60	15.0	15.0		3.93	2		84-6 F	2-6	8-0	877.85	878.01	879.00	878.10	871.50	870.60	44'-6"	40'-0"					74-0			878.5	877.6
			R-51-36	36×60	15.0	15.0																							
899+80	U.S.R. 442		R-49-36	36×60	15.0		15.0	3.93	2		78'-0" T	2-6	3'-8"	961.45	961.49	962.60	962.90	955.10	955.40	43'-0"	35'-0"					71-10			962.1	962.4
			R-51-36	36×60	15.0		15.0																						
					SHEET TOTALS	249 -F	165 -T	23.6-U 23.6-T																						

For Location of Dimensions A, B, C, D, E & F See Sheet 171

T = T-4005(6)

F = F-522(27)

LINE SHEET

	BY	DATE	CHECKED BY	DATE
SURVEYED				
PLOTTED				
INKED				
DESIGNED				
QUANTITIES				

SUB-SUMMARY: OVERHEAD SIGN SUPPORTS U.S.R. 422, S.R. 46 & Heaton-North Rd.

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

TRU-422-(14.70-16.38)

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TRAFFIC CONTROL NOTES

614 TEMPORARY SIGNS AND SUPPORTS FOR MAINTAINING TRAFFIC

THE FOLLOWING REQUIREMENTS SHALL BE ADHERED TO REGARDING MATERIALS AND PLACEMENT OF SIGNS TO BE FURNISHED, INSTAILED, MAINTAINED, AND SUBSEQUENTLY REMOVED BY THE CONTRACTOR IN ACCORDANCE WITH THE PLANS.

SIGNS SHALL BE ALUMINUM SHEET OR PLYWOOD TYPE WITH REFLECTIVE SHEETING IN ACCORDANCE WITH SUPPLEMENTAL SPECIFICATION 815. SIGN MATERIAL SHALL CONFORM WITH THE FOLLOWING SCHEDULE:

INDIVIDUAL SIGN AREA	MATERIAL
LESS THAN 10 SQ. FT.	0.060 ALUM. SHEET
10-16 SQ. FT.	0.080 ALUM. SHEET
16-20 SQ. FT.	0.100 ALUM. SHEET
OVER 20 SQ. FT.	3/4" INCH PLYWOOD

THE CONTRACTOR SHALL HAVE THE OPTION OF FURNISHING EXTRUSHEET ALUMINUM PANELS AS A SUBSTITUTE FOR PLYWOOD.

ALL SUPPORTS FOR GROUND MOUNTED SIGNS NOT ERECTED ON DRUMS OR OVERPASS MOUNTED SHALL BE STEEL CHANNEL TYPE, DRIVEN TO A MINIMUM DEPTH OF 5 FEET. SIGNS SHALL HAVE 1, 2, OR 3 SEPARATE SUPPORTS IN ACCORDANCE WITH THE FOLLOWING SCHEDULE:

TOTAL SIGN ASSEMBLY AREA (SQ.FT.)	SUPPORT TYPE SIGN LENGTH (HORIZ.)		
	4 FT. OR LESS	4-10 FT.	11 FT. OR MORE
10 OR LESS	1-4 LB. POST	2-3 LB. POST	—
10-20	1-6 LB. BEAM	2-4 LB. POST	—
21-40	—	2-6 LB. BEAM	3-6 LB. BEAM
41-75	—		3-8 LB. BEAM

SUPPORTS FOR GROUND MOUNTED SIGNS GREATER THAN 75 SQ. FT. IN AREA SHALL BE AS DIRECTED BY THE ENGINEER.

MOUNTING HEIGHT AND LATERAL PLACEMENT OF TEMPORARY SIGNS SHALL BE IN ACCORDANCE WITH FIGURES S-2 AND S-3 (PAGES 14 AND 15) OF THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

STANDARDS AND SIGN LAYOUTS FOR TEMPORARY SIGNS ARE AVAILABLE FROM THE OFFICE OF HIGHWAY DESIGN SERVICES, 25 SOUTH FRONT STREET, COLUMBUS OHIO, 43215.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF ALL TEMPOARY SIGNS AND SUPPORTS WHEN NO LONGER NEEDED, AND HE SHALL RESTORE EACH SIGN SITE TO ITS ORIGINAL CONDITION.

ALL SIGNS AND SUPPORTS FURNISHED, ERECTED, MAINTAINED AND REMOVED BY THE CONTRACTOR SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

BASIS OF PAYMENT FOR THE ABOVE DESCRIBED WORK SHALL BE INCLUDED IN THE LUMP SUM ITEM OF WORK FOR ITEM 614, MAINTAINING TRAFFIC.

815 SIGN ERECTION, EXTRUSHEET OR FLAT SHEET TYPE

THE CONTRACTOR SHALL ERECT SIGN PANELS AS INDICATED ON THE SCHEMATIC SIGNING PLAN SHEET NUMBER(S) 172 - 181. THE PANELS WILL BE FURNISHED BY OTHERS AND SHALL BE MOUNTED ON THE BRACKETS OR BEAM SUPPORTS PROVIDED IN THE PLANS.

ALL SIGN MATERIAL AND ACCESSORIES WILL BE FURNISHED AND TRANSPORTED BY OTHERS TO A DELIVERY POINT DESIGNATED BY THE CONTRACTOR ON OR NEAR THE SUBJECT PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE HANDLING, PROTECTION AND STORAGE OF THE SIGN PANELS AND ACCESSORIES FROM THE TIME OF UNLOADING BY OTHERS AT THE DELIVERY POINT.

LARGE GUIDE SIGNS (OVER 8 FEET IN HEIGHT) MAY BE DELIVERED IN TWO PARTS. WORK SHALL ALSO CONSIST OF ASSEMBLY OF THESE PANELS INCLUDING ATTACHMENT OF DEMOUNTABLE SIGN LEGEND, WHERE NECESSARY, AND ERECTION OF SIGNS IN CONFORMANCE WITH THE SCHEMATIC SIGN PLAN.

THE CONTRACTOR SHALL SUBMIT, IN THREE COPIES, A SCHEDULE FOR SIGN ERECTION TO THE ENGINEER AT LEAST 120 CALENDAR DAYS PRIOR TO THE START OF ANY SCHEDULED ERECTION WORK. THE SCHEDULE SHALL INCLUDE PROPOSED DATES, SIGN NUMBERS, AND DELIVERY POINT. THE ENGINEER WILL FURNISH COPIES OF THE SCHEDULE TO THE DIVISION TRAFFIC ENGINEER AND TO THE ENGINEER OF DESIGN SERVICES, 25 SOUTH FRONT STREET, COLUMBUS, OHIO, 43215.

THE PRICE BID PER SQUARE FOOT FOR "ITEM 815, SIGN ERECTION, BY TYPE", SHALL INCLUDE PAYMENT FOR ALL NECESSARY EQUIPTMENT, LABOR AND TOOLS TO STORE, ASSEMBLE, AND ERECT THE SIGNS AS SPECIFIED.

815 INTERIM COVERING FOR SIGNS

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING AN INTERIM COVER AND ATTACHMENT MATERIALS FOR SIGNS SO INDICATED IN THE PLANS OR AS DIRECTED BY THE ENGINEER. THIS ITEM SHALL ALSO INCLUDE THE SUBSEQUENT REMOVAL OF COVERS WHEN DIRECTED BY THE ENGINEER.

MATERIAL FOR COVERING SHALL BE PLASTIC COATED BURLAP BLANKETS IN CONFERENCE WITH 705.06.

THE ENGINEER SHALL APPROVE THE METHOD PROPOSED FOR ATTACHING INTERIM COVERS TO SIGNS PRIOR TO INSTALLATION OF COVERS.

WORK SHALL INCLUDE ALL NECESSARY MATERIAL, HARDWARE, LABOR, AND EQUIPMENT REQUIRED TO PERFORM THE REQUIRED ITEM OF WORK.

THE BASIS OF PAYMENT SHALL BE INTERIM COVERING FOR SIGNS, PER SQUARE FOOT.

IN ADDITION TO THE 0.0 SQ. FT. REFERRED TO IN THE PLANS, AN ADDITIONAL QUANTITY OF * 300 SQ. FT. FOR ITEM 815, INTERIM COVERING FOR SIGNS, HAVE BEEN INCLUDED TO COVER SIGNS AS DIRECTED BY THE ENGINEER.

* F-522(27) = 200 S.F. & T-4005(6) = 100 S.F.

EXISTING SIGNS

EXISTING SIGNS LOCATED WITHIN THE ROADWORK AREAS WHICH ARE NECESSARY FOR INTERIM OR PERMANENT TRAFFIC CONTROL SHALL BE REMOVED AND RE-ERECTED IN LOCATIONS INDICATED BY THE PLANS OR AS APPROVED BY THE ENGINEER. STOP SIGNS WILL BE MAINTAINED AT ALL TIMES WHILE TRAFFIC IS MAINTAINED. THE COST OF REMOVAL, RE-ERECTED AND SUBSEQUENT REMOVAL IF REQUIRED SHALL BE CONSIDERED A SUBSIDIARY WORK ITEM, THE COST OF WHICH SHALL BE INCLUDED IN THE PRICE BID FOR THE ROADWAY WORK ITEMS. THE SIGNS WHICH ARE TO BE RE-ERECTED ON THE BERMS SHALL BE LOCATED WITH THE CENTER LINE OF SUPPORT ON THE P.I. OF THE SHOULDER.

SIGN LOCATIONS

ALL SIGNS SHALL BE PLACED NORMAL TO THE ROADWAY ON WHICH THEY ARE STATIONED UNLESS OTHERWISE NOTED ON THE PLANS.

816 CONCRETE FOUNDATIONS, FOR SIGN SUPPORTS

PAYMENT FOR THIS ITEM SHALL BE BASED ON PLAN DIMENSIONS (OR DEMENSIONS AS MODIFIED BY THE ENGINEER IN LIEU OF PLAN QUANTITIES) AS REQUIRED IN SUPPLEMENTAL SPECIFICATION 816.

PAYMENT FOR REINFORCING STEEL AND INSTALLATION ONLY OF CONDUIT ELLS SHALL BE INCLUDED IN THE COST OF CONCRETE FOUNDATIONS FOR OVERHEAD SIGN SUPPORTS. CONCRETE SHALL BE CLASS "C".

BASIS OF PAYMENT SHALL BE AS FOLLOWS:

1. CONCRETE FOR OVERHEAD SIGN SUPPORT FOUNDATIONS, PER CUBIC YARD.
2. CONCRETE FOR GROUND MOUNTED SIGN SUPPORT FOUNDATIONS, PER CUBIC YARD.

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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TRAFFIC CONTROL NOTES

816 ROCK EXCAVATION

WHERE SOLID ROCK IS ENCOUNTERED IN EXCAVATION FOR SIGN SUPPORT FOUNDATIONS, THE DEPTH TO BE EXCAVATED BELOW ROCK SURFACE MAY BE DECREASED AS DIRECTED BY THE ENGINEER TO A MAXIMUM OF THIRTYFIVE (35) PERCENT OF DEPTH SPECIFIED IN THE PLANS.

CONSTRUCTION LAYOUT STAKES FOR SIGNS & TRAFFIC SIGNALS

THE CONTRACTOR SHALL STAKE OUT ALL SIGNS AND TRAFFIC SIGNAL SUPPORTS IN ACCORDANCE WITH SUPPLEMENTAL SPECIFICATION 816 PRIOR TO INSTALLATION OF ANY FOUNDATIONS OR SUPPORTS.

AFTER STAKEOUT THE CONTRACTOR SHALL NOTIFY THE ENGINEER A MINIMUM OF SEVEN (7) DAYS IN ADVANCE OF SCHEDULED WORK. SUPPORT LOCATIONS FOR EACH SUPPORT WILL BE FIELD CHECKED AND APPROVED BY THE ENGINEER WHO SHALL COORDINATE WITH THE DIVISION AND OR CITY TRAFFIC ENGINEER PRIOR TO PROCEEDING WITH CONSTRUCTION WORK REQUIRED.

IF BOTH MAJOR AND MINOR TYPE SUPPORTS ARE INCLUDED WITHIN THE PROJECT IT WILL BE PERMISSIBLE TO PERFORM THE CONSTRUCTION STAKE-OUT AND FIELD INSPECTION IN TWO (2) STAGES, ONE FOR MAJOR SUPPORTS AND ONE FOR MINOR SUPPORTS.

COST FOR THIS ITEM OF WORK WILL BE INCLUDED IN THE ITEM "CONSTRUCTION LAYOUT STAKES (SEE NOTE IN PROPOSAL).

816 STRUCTURAL SUPPORTS, 4 POUND POSTS

THE 4 POUND POST AND HARDWARE SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A-123 AND A-153 RESPECTIVELY. ALL FABRICATION SHALL BE COMPLETED PRIOR TO GALVANIZING.

QUANTITIES FOR ITEM 816 "STRUCTURAL SUPPORTS, 4 POUND POSTS, 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 SEPARATE PAY ITEM.

202 REMOVAL OF EXISTING SIGN INSTALLATIONS, AS PER PLAN

THIS WORK SHALL CONSIST OF THE REMOVAL OF ALL EXISTING SIGN INSTALLATIONS ON MAIN ROADWAY, RAMPS AND APPROACH ROADWAYS WITHIN WORK LIMITS OF THIS PROJECT.

WORK SHALL ALSO INCLUDE REMOVAL OF SIGN SUPPORTS AND FOUNDATIONS AS REQUIRED IN SECTION 202.

ALL SIGNS, SUPPORTS, AND ACCESSORIES REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND BE DISPOSED OF BY HIM.

TO ASSURE MAINTENANCE OF ADEQUATE TRAFFIC CONTROL AT ALL TIMES, NO SIGNS ARE TO BE REMOVED WITHOUT THE APPROVAL OF THE ENGINEER.

PAYMENT FOR REMOVAL OF EXISTING SIGNS SHALL INCLUDE ALL NECESSARY LABOR AND EQUIPMENT REQUIRED TO PERFORM THE REQUIRED WORK AS INDICATED ABOVE.

1. BASIS OF PAYMENT SHALL BE AS FOLLOWS:

REMOVAL OF EXISTING SIGN INSTALLATIONS AS PER PLAN AT THE CONTRACT LUMP SUM PRICE.

816 SPAN WIRE OVERHEAD SIGN SUPPORTS

THIS ITEM SHALL INCLUDE THE FURNISHING AND INSTALLING OF STRAIN POLES, MESSENGER WIRE, HEAVY DUTY STEEL CLAMPS, GUY GRIPS, BULL RINGS, THIMBLES, SIGN HANGERS, SIGN BRACES AND THE FURNISHING OF ANCHOR BOLTS FOR THE SIGN SUPPORT FOUNDATIONS AS DETAILED IN THE PLANS.

MESSENGER WIRE SHALL BE GALVANIZED OR COPPER CLAD.

PAYMENT SHALL BE AT THE CONTRACT UNIT PRICE BID FOR EACH SPAN WIRE OVERHEAD SIGN SUPPORT, BY TYPE AND THE SPAN LENGTH, WHICH SHALL INCLUDE ALL LABOR, MATERIAL AND EQUIPMENT REQUIRED FOR THE COMPLETE ITEM OF WORK.

816 SPAN WIRE MOUNTED SIGN ATTACHMENT, AS PER PLAN.

THIS ITEM OF WORK SHALL CONSIST OF THE FURNISHING AND INSTALLATION OF A STEEL ANGLE, SPAN WIRE MOUNTING BRACKET, AND HARDWARE AS DETAILED ON SHEET 170.

BASIS OF PAYMENT SHALL BE AT THE CONTRACT BID PRICE PER EACH SPAN WIRE MOUNTED SIGN ATTACHMENT, AS PER PLAN WHICH PRICE SHALL INCLUDE ALL LABOR, MATERIAL, EQUIPMENT AND INCIDENTALS NECESSARY TO PERFORM THE REQUIRED ITEM OF WORK.

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 APPROVE EQUAL MATERIALS MAY BE FURNISHED.

CERTIFICATION AND APPROVAL OF SIGN SUPPORT & SIGN LIGHTING ITEMS.

THE CONTRACTOR SHALL SUBMIT THROUGH PROPER CHANNELS THE DRAWINGS, INFORMATION AND SAMPLES AS REQUIRED BELOW:

A. 8 COPIES OF SHOP DRAWINGS AND MATERIAL LISTS FOR APPROVAL:
   1. OVERHEAD SIGN SUPPORTS
   2. BREAKAWAY SIGN SUPPORTS
   3. SIGN LIGHTING AND SIGNAL ITEMS
   *
B. 8 COPIES OF CATALOG CUTS DESCRIPTIONS OF SAMPLES OF FABRICATORS STANDARD ITEMS AS SHOWN IN THE PLANS OR THEIR EQUALS FOR APPROVAL OF THEIR USE.
C. CERTIFICATIONS AND/OR SAMPLES FOR ALL MATERIAL WHICH HAVE BEEN APPROVED ABOVE UNDER "A" AND "B".
D. APPROVAL OF ITEMS UNDER "A" AND "B" SHALL BE IN THE HAND OF THE CONTRACTOR PRIOR TO ANY PURCHASE OR INSTALLATION.
E. CERTIFICATIONS OF SAMPLES UNDER "C" MUST BE IN HAND AND APPROVED PRIOR TO CONTRACT COMPLETION.

* IF APPLICABLE
   4. SIGN FACE COPY LAYOUTS.
   5. SIGN PANELS AND ACCESSORIES.

INTERIM BARRELS, AS PER PLAN

THIS WORK SHALL CONSIST OF FURNISHING AND PLACEMENT OF 55 GALLON BARRELS AS SPECIFIED PER PLAN.

THE BARRELS SHALL BE PAINTED ORANGE AND HALF FILLED WITH GRANULAR MATERIAL. IN ADDITION TO PAINTING REQUIREMENTS, AN 8" BAND OF WHITE REFLECTORIZED SHEETING SHALL BE PROVIDED AROUND THE CIRCUMFERENCE OF EACH BARREL AT THE TOP. REFLECTORIZATION AND APPLICATION OF THE SHEETING SHALL BE IN ACCORDANCE WITH SUPPLEMENTAL SPECIFICATION 815.

FOR DRAINAGE OF STEEL DRUMS, 4 EACH ONE-HALF INCH (1/2") DIAMETER HOLES SHALL BE PROVIDED ON THE CIRCULAR SURFACE NEAR THE BOTTOM OF EACH DRUM.

THE QUANTITY FURNISHED AND INSTALLED WILL BE PAID FOR AS PART OF ITEM 614 MAINTAINING TRAFFIC AND SHALL BE FULL COMPENSATION FOR FURNISHING AND INSTALLING BARRELS INCLUDING PAINTING, REFLECTORIZED SHEETING, GRANULAR MATERIAL AND NECESSARY LABOR AND EQUIPMENT.

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TRAFFIC SIGNAL NOTES

1. GENERAL

A. SCOPE OF WORK

THE CONTRACTOR SHALL INSTALL TRAFFIC SIGNALS AT THE INTERSECTIONS SHOWN IN THE PLANS. THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY SO THAT THE TRAFFIC SIGNALS WILL BE COMPLETE, ACCEPTED AND READY FOR SERVICE.

B. GENERAL

ANY ITEMS OF LABOR, MATERIALS, AND EQUIPMENT REQUIRED, BUT NOT SHOWN AS A SEPARATE PAY ITEM IN THE PROPOSAL SHALL BE FURNISHED AND INSTALLED AS INCIDENTAL TO THE CONTRACT.

THE REFERENCE TO ANY NAME, MAKE AND MODEL NUMBER IS INTENDED TO BE DESCRIPTIVE AND NOT RESTRICTIVE AND IS TO INDICATE TO BIDDERS THE DESIGN THAT WILL BE ACCEPTABLE. BIDS ON OTHER NAMES, MAKES AND NUMBERS WILL BE CONSIDERED. BEFORE ANY EQUIPMENT IS ORDERED OR INSTALLATION OF A TRAFFIC SIGNAL SYSTEM IS BEGUN, A COMPLETE SCHEDULE OF MATERIALS AND EQUIPMENT SHALL BE SUBMITTED TO AND APPROVED BY THE ENGINEER. THE SCHEDULE SHALL INCLUDE EIGHT (8) SETS OF CATALOG CUTS, DIAGRAMS, DRAWINGS, BROCHURES, DATA SHEETS,MANUFACTURER'S CERTIFICATES OF COMPLIANCE OR OTHER DESCRIPTIVE DATA AS MAY BE REQUIRED AND SHALL INCLUDE COMPLETE DESCRIPTIVE DATA ON THE SIGNALS, WIRING DIAGRAMS, COMPLETE CABLE DESCRIPTIONS, TEST DATA, MAKE AND CAPACITY OF ALL APPARATUS. THE CONTRACTOR SHALL IDENTIFY THE ITEM ON EACH SHEET AND SHALL MARK ALL PRINTS "RECORD DRAWING". ONE COPY WILL BE RETURNED MARKED "APPROVED", IF FOUND SATISFACTORY. IN THE EVENT ANY ITEMS OF MATERIAL OR EQUIPMENT CONTAINED IN THE SCHEDULE FAIL TO COMPLY WITH THE SPECIFICATION REQUIREMENTS, SUCH ITEMS WILL BE REJECTED.

ALL MATERIALS AND EQUIPMENT FURNISHED UNDER THESE SPECIFICATIONS SHALL BE NEW, FIRST QUALITY, OF THE LATEST DESIGN, AND FREE FROM DEFECT AND POOR WORKMANSHIP.

ALL MAJOR ITEMS OF EQUIPMENT SUCH AS CONTROLLERS, SIGNALS, DETECTORS, POLES, TYPES OF CABLES, ETC, SHALL BE OF THE SAME MANUFACTURE AND SAME TYPE IN ORDER TO ASSURE UNIFORMITY, INTERCHANGEABILITY OF COMPONENTS, SINGLE RESPONSIBILITY AND MOST SATISFACTORY SERVICE.

11. SIGNAL SPECIFICATIONS

A. INSTALLATION

1. THE CONTRACTOR SHALL CONFORM TO THE NATIONAL ELECTRIC CODE AND THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS IN PERFORMING CONTRACT WORK. HE SHALL OBSERVE THE REGULATIONS OF UTILITIES IN THE AREA OF THEIR EQUIPMENT AND EXERCISE DUE CAUTION IN CONSTRUCTION WORK NEAR THEIR FACILITIES.

2. PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL CONTACT ALL UTILITIES HAVING INSTALLATIONS IN THE AREA TO SECURE AND AFFIRM DATA ON UTILITY LOCATIONS. THESE AGENCIES AND UTILITIES SHALL BE NOTIFIED AT LEAST 24 HOURS PRIOR TO ANY EXCAVATION IN AREAS CONTAINING THEIR INSTALLATIONS.

3. THE CONTRACTOR SHALL INSTALL THE POWER TO THE CONTROLLER CABINET AND PROVIDE 120/240 VOLTS, 30 AMP SERVICE AS REQUIRED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ARRANGING AND PROVIDING THE POWER IN THE MANNER SHOWN IN THE PLANS THROUGH THE OHIO EDISON COMPANY OR THE CITY OF NILES ELECTRICAL DEPARTMENT. THE COST OF OBTAINING THE POWER SHALL BE INCLUDED IN THE BID PRICE FOR "POWER CABLE WITH ACCESSORIES".

4. TRAFFIC SIGNAL CABLE SHALL ENTER THE CONTROLLER CABINETS AND RUN CONTINUOUSLY FROM SIGNAL HEAD TO SIGNAL HEAD WITHOUT SPLICES. PRESSURE TYPE CONNECTORS WILL BE USED TO MAKE CONNECTIONS INSIDE THE CONTROLLER CABINET. CABLE ENTRANCES SHALL BE PROTECTED BY A SUITABLE WEATHER HEAD AND DRIP LOOP WHEN ENTERING TRAFFIC FIXTURES.

5. ALL WIRES IN THE CONTROLLER CABINET SHALL BE LABELED, NEATLY LASHED AND FASTENED TO THE CABINET WITH CLAMPS. THIS SHALL INCLUDE WIRES TO THE DETECTORS, SIGNAL HEADS, PEDESTRIAN UNITS, INTERCONNECT EQUIPMENT AND ALL MISCELLANEOUS EQUIPMENT.

6. ALL SPLICES IN PULL BOXES SHALL BE OF THE WEATHER-PROOF POURED TYPE.

7. ALL CURRENT CARRYING WIRES SHALL BE COPPER UNLESS OTHERWISE SPECIFIED.

8. NO SPLICES SHALL BE PERMITTED IN ANY ELECTRICAL CONDUCTOR WITH THE EXCEPTION OF DETECTOR LOOP WIRE TO DETECTOR LEAD-IN CABLE SPLICES IN PULL BOXES.

B. EQUIPMENT

ALL EQUIPMENT SHALL BE FURNISHED WITH TWO WIRING DIAGRAMS, SERVICE MANUAL AIND INSTRUCTIONS ON INSTALLATION AND MAINTENANCE.

METHOD OF MEASUREMENT

SUPPLEMENTING ITEM 625.24, LINEAR MEASUREMENTS FOR PAYMENT OF VARIOUS TRAFFIC SIGNAL BID ITEMS SHALL BE MADE AS FOLLOWS:

1. SIGNAL CABLE, POWER CABLE, INTERCONNECT CABLE, LOOP DETECTOR LEAD IN CABLE, SERVICE CABLE

THE LENGTH MEASURED HORIZONTALLY FROM CENTER TO CENTER OF PULLBOXES, POLES, FOUNDATIONS, OR SIGNAL HEADS; PLUS THE FOLLOWING:

1. FIVE FEET PER EACH PULLBOX, POLE, TERMINATION AT CONTROLLER OR SIGNAL HEAD TO ALLOW FOR SLACK AND SPLICING OF LEADS.
2. THE LENGTH MEASURED VERTICALLY FROM TRENCH BOTTOM TO POLE OUTLET OR MAST ARM ATTACHMENT ON VERTICAL RUNS.

MULTIPLIERS AS CONTAINED IN 625.24 PARAGRAPH (C) AND (E) SHALL NOT BE USED FOR MULTI CONDUCTOR CABLES COVERED IN THIS NOTE.

2. LOOP DETECTOR WIRE

MEASURED HORIZONTALLY FROM CENTER LINE OF PULLBOX TO PAVEMENT EDGE, TO LOOP THROUGH LOOP SAWSLOTS FOR THE NUMBER OF TURNS REQUIRED AND THENCE RETURNING TO THE PULLBOX, PLUS FIVE FEET AT EACH END TO ALLOW FOR SLACK AND SPLICES.

3. LOOP DETECTOR PAVEMENT CUTTING

MEASURED ALONG THE SAWCUT FROM OUTSIDE EDGE OF PAVEMENT OR CURB TO LOOP AND AROUND THE LOOP, USING THE RECTANGULAR PERIMITER DIMENSIONS SHOWN ON THE PLANS OR DIRECTED BY THE ENGINEER BUT NOT INCLUDING CHAMFER CUTS AT LOOP CORNERS.

4. MESSENGER WIRE WITH ACCESSORIES

MEASURED HORIZONTALLY FROM CENTER TO CENTER OF POLE TO POLE; OR BULLRING (AERIAL CORNER) TO POLE; OR BULLRING TO BULLRING; BUT NOT INCLUDING ANY ADDITIONAL MESSENGER REQUIRED FOR ATTACHMENT OF MESSENGER TO POLES, BULLRINGS OR STRAIN INSULATORS BY WRAPPING OR BENDING

MARKING OF CABLE

ALL CABLES SHALL BE MARKED OR TAGGED AT ALL PULL BOXES, SIGNAL SUPPORTS, AND CONTROLLERS WITH TAG, SO AS TO BE INDIVIDUALLY IDENTIFIED.

THE TAG SHALL BE NOT LESS THAN 0.031" THICK COPPER, BRASS OR PLASTIC, AND SHALL BE EMBOSSED OR ENGRAVED WITH LETTERS OR NUMBERS OF NOT LESS THAN 1/4" HIGH. IT SHALL BE SECURELY ATTACHED WITH AN AWG #14 COPPER WIRE. MARKINGS SHALL CONSIST OF THE FOLLOWING OR VARIATIONS THEREOF; GROUND, GRD.; PHASE A, Ø A; COMMON, COM; PHASE A DETECTOR, DET-A; POWER, AC+ OR AC-; ETC. PAYMENT FOR THIS WORK SHALL BE INCIDENTAL TO THE INSTALLATION OF THE VARIOUS CABLES.

816 CONSTRUCTION LAYOUT STAKES FOR SIGNS AND TRAFFIC SIGNALS

THE CONTRACTOR SHALL STAKE OUT ALL SIGNS AND TRAFFIC SIGNAL SUPPORTS IN ACCORDANCE WITH SUPPLEMENTAL SPECIFICATION 816 PRIOR TO INSTALLATION OF ANY FOUNDATIONS OR SUPPORTS.
AFTER STAKEOUT THE CONTRACTOR SHALL NOTIFY THE ENGINEER A MINIMUM OF SEVEN (7) DAYS IN ADVANCE OF SCHEDULED WORK. SUPPORT LOCATIONS FOR EACH SUPPORT WILL BE FIELD CHECKED AND APPROVED BY THE ENGINEER WHO SHALL COORDINATE WITH THE DIVISION AND/OR CITY TRAFFIC ENGINEER PRIOR TO PROCEEDING WITH CONSTRUCTION WORK REQUIRED.
IF BOTH MAJOR AND MINOR TYPE SUPPORTS ARE INCLUDED WITH THE PROJECT IT WILL BE PERMISSIBLE TO PERFORM THE CONSTRUCTION STAKE-OUT AND FIELD INSPECTION IN TWO (2) STAGES, ONE FOR MAJOR SUPPORTS AND ONE FOR MINOR SUPPORTS.
COST OF THIS ITEM OF WORK WILL BE INCIDENTAL TO THE VARIOUS 816 ITEMS OF WORK CONTAINED IN THE PROJECT.

RESTORATION OF DISTURBED AREAS

THE CONTRACTOR SHALL REPLACE ALL MEDIAN PAVEMENT, SEEDED AND SODDED AREAS, PAVED SHOULDERS, AND ALL OTHER DISTURBED SURFACES TO A CONDITION EQUAL TO THAT EXISTING BEFORE THE WORK WAS STARTED. ALL REPLACEMENTS SHALL BE DONE IN ACCORDANCE WITH THE PERTINENT SPECIFICATION ITEMS AND AS DIRECTED BY THE ENGINEER. PAYMENT FOR ALL RESTORATION WORK, INCLUDING MATERIALS, EQUIPMENT, LABOR, INCIDENTALS AND DISPOSAL OF ALL SURPLUS MATERIALS, SHALL BE INCLUDED IN THE UNIT PRICES BID FOR VARIOUS ITEMS.

TESTING OF TRAFFIC SIGNALS

THE CONTRACTOR SHALL FURNISH ALL PERSONNEL, EQUIPMENT AND APPLIANCES REQUIRED TO SUCCESSFULLY TEST THE COMPLETED INSTALLATIONS.

THE CONTRACTOR SHALL TEST AND DEMONSTRATE TO THE SATISFACTION OF THE ENGINEER OR HIS AUTHORIZED REPRESENTATIVE, THAT THE CIRCUITS ARE PROPERLY CONNECTED, CONTINUOUS AND FREE FROM SHORT CIRCUITS, CROSSES AND UNSPECIFIED GROUNDS, AND THAT THEY ARE CONNECTED IN ACCORDANCE WITH THE WIRING INSTRUCTIONS AND THAT EACH CIRCUIT IS OPERABLE CORRECTLY AND INDEPENDENTLY OF ANY OTHER CIRCUIT.

THE CONTRACTOR SHALL TEST EACH UNGROUNDED CIRCUIT AND SPARE WIRES TERMINATING AT THE TRAFFIC CONTROLLER CABINET FOR RESISTANCE TO GROUND. THIS RESISTANCE TO GROUND SHALL BE NOT LESS THAN TEN (10) MEGOHMS. THE CONTRACTOR SHALL FURNISH A COMPLETE REPORT OF ALL MEGOHM READINGS OF EACH CIRCUIT AND SPARE CONDUCTORS IN CABLES APPEARING AT THE CONTROLLER BASE. THE GROUND ROD AT THE TRAFFIC CONTROLLER SHALL HAVE A RESISTANCE OF NOT MORE THAN 15 OHMS TO GROUND.

AFTER ALL CIRCUITS AND SPARE CONDUCTORS HAVE BEEN TESTED THE CONTRACTOR WILL INSTALL THE TRAFFIC CONTROLLER AND CONNECT THE FIELD WIRING TO THE TERMINAL CONTACTS OF THE TRAFFIC CONTROLLER. THE COMPLETED INSTALLATION SHALL OPERATE CONTINUOUSLY FOR A PERIOD OF ONE WEEK WITHOUT INTERRUPTION OR FAILURE ATTRIBUTABLE TO POOR WORKMANSHIP OR DEFECTIVE MATERIAL PRIOR TO ACCEPTANCE AND AFTER ANY DEFECTIVE PARTS HAVE BEEN REPLACED AND ALL FAULTS CORRECTED.

THE CONTRACTOR SHALL HAVE THE RESPONSIBILITY OF CORRECTING MALFUNCTIONS OF THE INSTALLATION. POWER FOR THE TEST WILL BE FURNISHED FROM THE SERVICE INSTALLED AS A PART OF THIS CONTRACT. THE COST OF THE POWER TO CONDUCT THE TEST WILL BE BORNE BY THE CONTRACTOR. COST OF CONDUCTING TESTS BY THE CONTRACTOR SHALL BE INCLUDED IN THE BID PRICE FOR THE ITEM TESTED.

625 TRAFFIC SIGNAL HEADS, BY TYPE

THIS WORK SHALL CONSIST OF FURNISHING AND INSTALLING VEHICULAR TRAFFIC SIGNAL HEADS OF THE TYPE AND SIZE SHOWN ON THE PLANS AND INSTALLING THEM AS SHOWN ON THE DETAIL SHEET NO. 160 AND AS HEREIN SPECIFIED.

ALL TRAFFIC SIGNALS SHALL MEET THE LATEST ITE (INSTITUTE OF TRAFFIC ENGINEERS) STANDARDS FOR "ADJUSTABLE FACE TRAFFIC CONTROL SIGNAL HEAD STANDARDS". THE TRAFFIC SIGNALS SHALL ALSO MEET THE FOLLOWING REQUIREMENTS:

1. ~~EIGHT (8")~~ TWELVE (12") TRAFFIC SIGNAL SECTIONS SHALL BE INSTALLED WITH A COMBINATION TUNNEL TYPE HOOD ~~EIGHT (8")~~ TWELVE (12") INCHES LONG, WITH AN OPEN SLOT AT THE BOTTOM OF THE HOOD.
2. REFLECTORS SHALL BE HIGHLY POLISHED (ALZAK, SILVERED GLASS) TYPE.
3. ALL TRAFFIC SIGNALS SHALL BE ARRANGED FOR SPAN WIRE MOUNTING.
4. GLASS LENSES, NUMBER AND SIZE, SHALL BE AS INDICATED ON THE INTERSECTION DRAWING. THESE LENSES SHALL MEET THE LATEST ITE STANDARDS FOR LENSES.
5. ALL SIGNAL OPTICAL UNITS SHALL PRODUCE STANDARD (ITE DEFINITION) LIGHT DISTRIBUTIONS.

TRAFFIC SIGNAL NOTES

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625 TRAFFIC SIGNAL HEADS, BY TYPE (CONT'D)

6. ALL TRAFFIC SIGNALS AND SIGNAL SERVICE ENTRANCE FIXTURES SHALL BE PAINTED ACCORDING TO THE FOLLOWING:

   FINISH ON BODY OF SIGNAL, OUTSIDE OF HOOD, DOORS AND SERVICE ENTRANCE FIXTURE - FEDERAL YELLOW, FINISH ON INSIDE OF HOOD - FLAT BLACK.

   PAINT REQUIREMENTS:
   1ST COAT (ALL SURFACES) - EPON OXIDE BAKING PRIMER, FEDERAL SPEC, TT-P-636,
   2ND COAT (ALL SURFACES) - MEDIUM GRAY ALKYD UREA EXTERIOR BAKING ENAMEL,
   FEDERAL SPEC, TT-E-480B
   3RD COAT (YELLOW SURFACE) - FEDERAL YELLOW ALKYD UREA EXTERIOR BAKING ENAMEL,
   FEDERAL SPEC, TT-E-489B, COLOR 13538
   3RD COAT (FLAT BLACK SURFACES) - ALKYD UREA BLACK SNYTHETIC, HEAT-RESISTING GLYCERYL PHTHALATE TYPE 4, INSTRUMENT BLACK, MILITARY SPEC, E-5557.

7. STAINLESS STEEL LATCHING DEVICES AND SPAN WIRE HANGERS SHALL NOT BE PAINTED.

8. BALANCE ADJUSTORS SHALL BE INSTALLED IF NECESSARY TO MAINTAIN THE TRAFFIC SIGNALS IN A VERTICAL POSITION.

9. TRAFFIC SIGNAL HEAD, 3 SECTION 12" LENSE, TWO-WAY

   A COMPLETED TWO-WAY THREE-SECTION TRAFFIC SIGNAL ASSEMBLY SHALL CONSIST OF THE FOLLOWING COMPONENT PARTS FOR SPAN WIRE MOUNTING:

   A. GALVANIZED SPAN WIRE HANGER FOR MESSENGER WIRE
   B. BALANCE ADJUSTOR
   C. 1-1/2" SERVICE ENTRANCE HEAD WITH GALVANIZED NIPPLE
   ~~D. TWELVE (12) TERMINAL DISCONNECT HANGER~~
   E. 1-1/2" GALVANIZED LOCK NUTS
   F. 1-1/2" DIAMETER TOP BRACKET ASSEMBLY
   G. BOTTOM BRACKET ASSEMBLY
   H. TWO, TWELVE INCH, (12") THREE-SECTION TRAFFIC SIGNAL INCLUDING RED, YELLOW AND GREEN LENSES WITH ALL REQUIRED COMPONENTS TO LOCK THE SIGNALS IN PLACE AND PROVIDE A WATER AND DUST TIGHT INSTALLATION.
   I. ALL OTHER INCIDENTALS NECESSARY TO MAKE THE ASSEMBLY COMPLETE.

   TRAFFIC SIGNAL HEAD, 3 SECTION 12" LENSE, ONE-WAY

   A COMPLETED ~~ONE~~-WAY THREE SECTION, TRAFFIC SIGNAL ASSEMBLY SHALL CONSIST OF THE FOLLOWING CONPONENT PARTS FOR SPAN WIRE MOUNTING:

   A. SPAN WIRE HANGER WITH VARIABLE LENGTH 1½" GALVANIZED DROP PIPE
   B. BALANCE ADJUSTER
   C. 1-1/2" GALVANIZED LOCK NUTS
   D. 1-1/2" DIAMETER TOP BRACKET ASSEMBLY
   E. 1½" SERVICE ENTRANCE HEAD WITH GALVANIZED NIPPLE
   ~~ONE(1)~~ TWELVE (12) INCH, THREE SECTION TRAFFIC SIGNALS INCLUDING RED, YELLOW AND GREEN LENSES WITH ALL REQUIRED COMPONENTS TO LOCK THE SIGNALS IN PLACE AND PROVIDE A WATER AND DUST TIGHT INSTALLATION.
   ALL OTHER INCIDENTALS NECESSARY TO MAKE THE ASSEMBLY COMPLETE.

10. THE CONTRACTOR SHALL FURNISH AND INSTALL A TRAFFIC SIGNAL LAMP IN EACH TRAFFIC SIGNAL SECTION. SIGNAL LAMPS SHALL CONFORM TO THE REQUIREMENTS OF "A STANDARD FOR TRAFFIC SIGNAL LAMPS" AS APPROVED BY THE INSTITUTE OF TRAFFIC ENGINEERS (ITE) BOARD OF DIRECTION ON DECEMBER 26, 1967 WITH THE FOLLOWING EXCEPTIONS AND QUALIFICATIONS:

    A. BRASS SCREW BASES SHALL BE REQUIRED

10. (CONT'D)

    B. LAMP SIZES SHALL BE AS FOLLOWS:

	WATTS	RATED LIFE HOURS	LIGHT CENTER LENGTH
1. 12" DIAMETER RED, GREEN, GREEN ARROW	150	6000	3"
2. 12" DIAMETER YELLOW	69	6000	3"
3. 8" DIAMETER RED, GREEN, GREEN ARROW	121	6000	2-7/16"
4. 8" DIAMETER YELLOW	69	6000	2-7/16"

    LAMPS SHALL BE INSTALLED WITH THE OPEN PORTION OF THE FILAMENT IN THE UPWARD POSITION.

    COST OF FURNISHING AND INSTALLING LAMPS SHALL BE INCLUDED IN THE BID PRICE FOR EACH ITEM REQUIRING LAMPS.

11. SIGNALS SHALL BE INSTALLED SUCH THAT THE LOWEST POINT OF THE SIGNAL IS SIXTEEN (16) TO SEVENTEEN (17) FEET ABOVE THE PAVEMENT SURFACE.

    PAYMENT FOR ITEM 625 "TRAFFIC SIGNALS" WILL BE MADE AT THE CONTRACT UNIT PRICE FOR EACH SIGNAL ASSEMBLY (BY TYPE) MOUNTED IN PLACE, TESTED AND ACCEPTED.

    SIGNAL CONTROLLER, BY TYPE, INSTALLATION ONLY

    SIGNAL CONTROL EQUIPMENT OF THE TYPE SPECIFIED IN THE PLANS SHALL BE FURNISHED BY THE STATE ASSEMBLED AND PREWIRED IN THE SIGNAL CONTROL CABINET TO BE INSTALLED ON THE PROJECT BY THE CONTRACTOR.

    THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER BY LETTER (IN QUADRUPLICATE) 90 DAYS PRIOR TO THE DESIRED DELIVERY DATE OF THE PREWIRED CABINET. THE DISTRIBUTION OF THE FOUR LETTER COPIES SHALL BE: (1) PROJECT ENGINEER, (2) DIVISION TRAFFIC ENGINEER, (3) OFFICE OF DESIGN SERVICES, 25 SOUTH FRONT STREET, COLUMBUS, OHIO (4) BUREAU OF TRAFFIC, ELECTRICAL SECTION 450 EAST TOWN STREET, COLUMBUS, OHIO. THE NOTIFICATION SHALL CONTAIN THE FOLLOWING: LOCATION TO WHICH CABINET IS TO BE DELIVERED ON PROJECT SITE, DATE OF DELIVERY (CABINET WILL BE DELIVERED BETWEEN 8:00 A.M. AND 5:00 P.M. OF THE DAY SPECIFIED EXCEPT SATURDAYS, SUNDAYS AND HOLIDAYS). THE CABINET SUPPLIED AS A PART OF THIS CONTRACT SHALL BE AVAILABLE FOR PICK-UP BY THE STATE AT THE SAME LOCATION AND TIME. THE CONTRACTOR SHALL FURNISH ALL LABOR AND EQUIPMENT REQUIRED TO UNLOAD AND LOAD THE CABINETS.

    THE CONTRACTOR SHALL MOUNT THE CONTROLLER WITH CABINET ON ITS FOUNDATION AND MAKE THE NECESSARY FIELD WIRING CONNECTIONS TO PROVIDE A SIGNAL CONTROLLER COMPLETE AND OPERABLE IN ACCORDANCE WITH THE SIGNAL OPERATION SHOWN IN THE PLANS.

    THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE CONTROLLER AND EQUIPMENT FROM THE TIME OF DELIVERY BY THE STATE FOR INSTALLATION.

    PAYMENT FOR ITEM 625 "SIGNAL CONTROLLER, BY TYPE, INSTALLATION ONLY" SHALL BE MADE AT THE CONTRACT UNIT PRICE FOR EACH SIGNAL CONTROLLER INSTALLED WHICH PRICE SHALL INCLUDE ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY FOR THE COMPLETE ITEM OF WORK.

    625 SIGNAL CONTROLLER CABINET (04.3 CU.FT.)

    THE CABINET SHALL BE CLEAN-CUT IN DESIGN AND APPEARANCE AND SHALL CONFORM TO THE FOLLOWING:

    IT SHALL BE MADE OF DIE CAST ALUMINUM ALLOY WITH A WALL THICKNESS OF APPROXIMATELY ONE-QUARTER INCH AND MINIMUM OF 18,000 PSI YIELD STRENGTH.

    THE MINIMUM USABLE INSIDE DIMENSIONS SHALL BE HEIGHT 30", WIDTH 19" AND DEPTH 13".

    IT SHALL CONTAIN AT LEAST 4.3 CUBIC FEET OF USABLE VOLUME.

    HINGED DOOR SHALL BE PROVIDED ON THE FRONT OF THE CABINET WHICH SHALL INCLUDE SUBSTANTIALLY THE FULL AREA OF THE FRONT OF THE CABINET.

625 SIGNAL CONTROLLER CABINET (04.3 CU. FT.) (CONT'D)

ALL DOORS SHALL BE FULLY GASKETED WITH ELASTOMERIC GASKETING MATERIAL SO THAT WHEN CLOSED THEY SHALL FIT CLOSELY TO THE GASKETING MATERIAL, MAKING THE CABINET WEATHER RESISTANT AND DUST TIGHT. ONE POINT LATCHING SHALL BE PROVIDED FOR THIS PURPOSE.

THE DOOR SHALL BE PROVIDED WITH LOCK COVERED BY A WEATHERPROOF TAB AND TWO KEYS FOR BOTH THE DOOR AND THE POLICE PANEL DOOR. THERE SHALL BE AT LEAST ONE SINGLE POSITION BAR DOOR STOP AT 120°.

THE DOOR PINS SHALL BE GREASE-LUBRICATED AND FABRICATED OF A NON-CORRODING STEEL MATERIAL.

THE BOTTOM INTAKE VENTILATOR SHALL BE SCREENED AND MECHANICALLY BAFFLED TO PROTECT THE INTERIOR OF CABINET AGAINST INSECTS, RAIN AND THE INSERTION OF FOREIGN OBJECTS. VENTILATOR SHALL NOT PRESENT ANY OBJECTIONABLE PROTRUSION TO OUTER SURFACE OF CABINET.

THE CABINET SHALL CONTAIN TWO CAST METAL OR PLYWOOD (1/2") SHELVES FOR SUPPORT OF TRAFFIC SIGNAL CONTROL EQUIPMENT. THE SHELVES SHALL BE ADJUSTABLE ON A MINIMUM OF 1-1/2" CENTERS FROM A MINIMUM OF 10" FROM THE TOP OF THE CABINET TO THE BOTTOM OF THE CABINET.

CABINET SHALL BE EQUIPPED WITH TOP VENTILATING FAN OF 15 CFM CAPACITY CONTROLLED BY A THERMOSTAT STARTING AT 120°F, AND STOPPING AT 100°F.

THE CABINET SHALL BE EQUIPPED WITH A POLICE PANEL DOOR AND THE FOLLOWING EQUIPMENT:

1 EACH THYRECTOR (PROVIDING STEADY STATE INPUT VOLTAGE OF 150 RMS OR 210 PEAK, AND PROVIDING A MAXIMUM CURRENT OF 3 AMPS AT .001 SEC. PULSE AT 60 HZ) FOR LIGHTNING PROTECTION OF TRAFFIC CONTROL EQUIPMENT FOR CONNECTING ACROSS THE LINE AFTER THE FUSE AND BEFORE FLASHER FILTERS, MOUNTED USING 150V MINIMUM BREAKDOWN INSULATED HOLLOW RIVIT USING #8 32 SCREW.

10 EACH 12 WIRE TERMINAL BLOCKS (PENN UNION #6012, MARATHON #6012 OR APPROVED EQUAL).

2 EACH 4 PDT 10 AMPERE 250 VOLT A.C. SWITCH (CUTLER-HAMMER #7693, CARLING ELECTRIC IL 253 OR APPROVED EQUAL).

1 EACH GROUND BUS BAR WITH 15 GROUND TERMINAL POINTS.

THE OUTGOING TRAFFIC CONTROL SIGNAL CIRCUITS SHALL BE OF THE SAME POLARITY AS THE LINE SIDE OF THE POWER SUPPLY; THE COMMON RETURN OF THE SIGNAL CIRCUIT SHALL BE OF THE SAME POLARITY AS THE GROUND SIDE OF THE POWER SUPPLY.

THE GROUNDED SIDE OF THE POWER SUPPLY SHALL BE GROUNDED TO THE CONTROLLER CABINET IN AN APPROVED MANNER.

A FLEXIBLE PLASTIC OR OTHER INSULATING MATERIAL IS TO BE MOUNTED WITH SHEET METAL SCREWS TO COVER SWITCH TERMINALS ON POLICE PANEL.

MOUNTING FACILITIES SHALL BE: 2 EACH PAINTED FULL CIRCLE MOUNTING BANDS FOR WOOD OR STEEL POLE MOUNTING, (EAGLE SIGNAL CO. UL 24, CROUSE HINDS CO. HL 8842, OR EQUAL) ~~OR A 4 INCH NOMINAL DIAMETER (4 1/2" OD) SLIP FITTER ON THE BOTTOM SURFACE, FOR MOUNTING ON STANDARD 4 INCH PIPE PEDESTAL, AS REQUIRED ON THE PLANS.~~

ALL CASE PIECES SHALL BE CLEAN, SMOOTH AND FREE FROM FLAWS, CRACKS, BLOWHOLES AND OTHER IMPERFECTIONS.

THE CABINET AND FAN HOUSING SHALL BE PRIME COATED AND SHALL BE FINISHED WITH TWO COATS OF YELLOW ENAMEL PAINT USING FEDERAL STANDARD 595 COLOR #136 E.

PAYMENT FOR ITEM 625 "SIGNAL CONTROLLER CABINET, 04.3 CF" SHALL BE AT THE UNIT PRICE BID PER EACH COMPLETE (IN PLACE) WITH ALL ACCESSORIES AND MOUNTING FACILITIES.

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625 CONTROLLER CABINET 07.7 CU. FT.

THE CABINET SHALL BE CLEAN-CUT IN DESIGN AND APPEARANCE AND SHALL CONFORM TO THE FOLLOWING:

IT SHALL BE MADE OF DIE CAST ALUMINUM ALLOY WITH A WALL THICKNESS OF APPROXIMATELY ONE-QUARTER INCH AND MINIMUM OF 18,000 PSI YIELD STRENGTH.

THE MINIMUM INSIDE DIMENSIONS SHALL BE: HEIGHT 38", WIDTH 28" AND DEPTH 12-7/16".

THE CABINET SHALL CONTAIN AT LEAST 7.7 CUBIC FEET OF USABLE VOLUME.

HINGED DOOR, WITH POLICE PANEL, SHALL BE PROVIDED ON THE FRONT OF THE CABINET WHICH SHALL INCLUDE SUBSTANTIALLY THE FULL AREA OF THE FRONT OF THE CABINET.

ALL DOORS SHALL BE FULLY GASKETED WITH ELASTOMERIC GASKETING MATERIAL SO THAT WHEN CLOSED THEY SHALL FIT CLOSELY TO THE GASKETING MATERIAL, MAKING THE CABINET WEATHER RESISTANT AND DUST TIGHT. THREE POINT LATCHING SHALL BE PROVIDED FOR THIS PURPOSE.

THE DOOR SHALL BE PROVIDED WITH A LOCK WITH PERMANENT TYPE LUBRICATION AND A WEATHERPROOF TAB AND FURNISHED WITH TWO KEYS FOR BOTH THE DOOR AND POLICE PANEL.

AN ELBOW VENT SHALL BE MOUNTED ON BOTH SIDES OF THE CABINET BASE AND SHALL BE MECHANICALLY SCREENED AND BAFFLED TO PROTECT AGAINST RAIN, DUST AND ALL TYPES OF FOREIGN OBJECTS.

THERE SHALL BE ONE BAR DOOR STOP AT APPROXIMATELY 135°.

THE DOOR PINS, RECESSED TO PREVENT BREAK AND ENTRY, SHALL BE GREASE-LUBRICATED AND FABRICATED OF A NON-CORRODING MATERIAL.

CABINET SHALL CONTAIN TWO CAST METAL OR PLYWOOD (3/4") SHELVES FOR THE SUPPORT OF TRAFFIC CONTROL EQUIPMENT. THE SHELVES SHALL BE ADJUSTABLE ON A MINIMUM OF 1-1/2" CENTERS FROM A MINIMUM OF 10" FROM THE TOP OF THE CABINET TO THE BOTTOM OF THE CABINET.

THE CABINET SHALL BE EQUIPPED WITH A POLICE PANEL DOOR AND THE FOLLOWING EQUIPMENT:

1 EACH THYRECTOR (PROVIDING STEADY STATE INPUT VOLTAGE OF 150 RMS OR 210 PEAK, AND PROVIDING A MAXIMUM CURRENT OF 5 AMPS AT .001 SEC. PULSE AT 60 HZ), FOR LIGHTNING PROTECTION OF TRAFFIC CONTROL EQUIPMENT FOR CONNECTION ACROSS THE LINE AFTER THE FUSES AND BEFORE FLASHER FILTER MOUNTED USING 150 V MINIMUM BREAKDOWN INSULATED HOLLOW RIVIT USING #8-32 SCREW.

10 EACH 12 WIRE TERMINAL BLOCKS (PENN UNION #6012 MARATHON #6012 OR APPROVED EQUAL).

3 EACH 4 PDT 10 AMPERE 250 V. A.C. SWITCH (CUTLER-HAMMER #7693, CARLING ELECTRIC IL 253 OR APPROVED EQUAL).

1 EACH GROUND BUS BAR WITH 15 GROUND TERMINAL POINTS.

THE OUTGOING TRAFFIC CONTROL SIGNAL CIRCUITS SHALL BE OF THE SAME POLARITY AS THE LINE SIDE OF THE POWER SUPPLY; THE COMMON RETURN OF THE SIGNAL CIRCUIT SHALL BE OF THE SAME POLARITY AS THE GROUND SIDE OF THE POWER SUPPLY.

THE GROUNDED SIDE OF THE POWER SUPPLY SHALL BE GROUNDED TO THE CONTROLLER CABINET IN AN APPROVED MANNER.

THE CABINET SHALL BE BASE MOUNTED AND FURNISHED WITH TWO 3/4" X 16" ANCHOR BOLTS FOR KEYING TO A CONCRETE FOUNDATION. A DRAWING SHOWING PROPER CONSTRUCTION OF THE CABINET FOUNDATION AND METHOD OF MOUNTING THE CABINET SHALL BE FURNISHED WITH THE CABINET BASE.

THE CABINET SHALL BE EQUIPPED WITH A TOP MOUNTED VENTILATING FAN 134 C.F.M. AT 0.160" OF WATER STATIC PRESSURE. SEPARATE ADJUSTABLE THERMOSTAT.

ALL CAST PIECES SHALL BE CLEAN, SMOOTH, AND FREE FROM FLAWS, CRACKS, BLOWHOLES AND OTHER IMPERFECTIONS.

625 CONTROLLER CABINET 07.7 CU.FT. (CONT'D)

AN ACCEPTABLE FLEXIBLE PLASTIC OR OTHER INSULATING MATERIAL IS TO BE MOUNTED WITH SHEET METAL SCREWS TO COVER SWITCH TERMINALS ON THE POLICE PANEL.

THE CABINET AND FAN HOUSING SHALL BE PRIME COATED AND SHALL BE FINISHED WITH TWO COATS OF YELLOW ENAMEL PAINT USING FEDERAL STANDARD 595 COLOR #13655.

PAYMENT FOR ITEM 625 SIGNAL CONTROLLER CABINET, 07.7 C.F. SHALL BE AT THE UNIT PRICE BID PER EACH, COMPLETE (IN PLACE), WITH ALL ACCESSORIES AND ANCHOR BOLTS FURNISHED.

625 CONTROLLER CABINET (38.00 CU. FT.)

THE CABINET SHALL BE CLEAN-CUT IN DESIGN AND APPEARANCE AND SHALL CONFORM TO THE FOLLOWING:

IT SHALL BE MADE OF 14 GUAGE COPPER BEARING STEEL. IT SHALL BE OF ALL WELD CONSTRUCTION.

THE MINIMUM USABLE INSIDE DIMENSIONS SHALL BE HEIGHT 72", WIDTH 37" AND DEPTH 24".

THE CABINET SHALL CONTAIN AT LEAST 38.0 CUBIC FEET OF USABLE VOLUME.

HINGED DOOR, WITH POLICE PANEL, SHALL BE PROVIDED ON THE FRONT OF THE CABINET WHICH SHALL INCLUDE SUBSTANTIALLY THE FULL AREA OF THE FRONT OF THE CABINET.

ALL DOORS SHALL BE FULLY GASKETED WITH ELASTOMERIC GASKETING MATERIAL SO THAT WHEN CLOSED THEY SHALL FIT CLOSELY TO THE GASKETING MATERIAL, MAKING THE CABINET WEATHER RESISTANT AND DUST TIGHT. THREE POINT LATCHING SHALL BE PROVIDED FOR THIS PURPOSE.

THE DOOR SHALL BE PROVIDED WITH A LOCK COVERED BY A WEATHER-PROOF TAB AND BOTH THE DOOR LOCK AND THE POLICE PANEL SHALL BE PROVIDED WITH TWO KEYS.

AN ELBOW VENT SHALL BE MOUNTED ON BOTH SIDES OF THE CABINET BASE AND SHALL BE MECHANICALLY SCREENED AND BAFFLED TO PROTECT AGAINST RAIN, DUST AND ALL TYPES OF FOREIGN OBJECTS.

THERE SHALL BE A DOOR STOP AT APPROXIMATELY 90° AND ONE AT 120°.

THE DOOR PINS SHALL BE GREASE LUBRICATED AND FABRICATED OF A NON-CORRODING MATERIAL.

CABINET SHALL CONTAIN FIVE METAL SHELVES FOR SUPPORT OF TRAFFIC SIGNAL CONTROL EQUIPMENT. THE SHELVES SHALL BE FULL WIDTH OF CABINET AND SHALL BE ADJUSTABLE ON A MINIMUM OF 1-1/2" CENTERS FROM A MINIMUM OF 10" FROM THE TOP OF THE CABINET TO THE BOTTOM OF THE CABINET.

CABINET SHALL BE EQUIPPED WITH SIX 3-1/2" KNOCK OUTS LOCATED ALONG A REMOVABLE COVER LOCATED AT THE BOTTOM REAR OF THE CABINET.

THE CABINET SHALL BE EQUIPPED WITH A POLICE PANEL DOOR AND THE FOLLOWING EQUIPMENT:

1 EACH SUITABLE LIGHTNING ARRESTER TO PROTECT TRAFFIC CONTROL EQUIPMENT FOR CONNECTING ACROSS THE LINE AFTER THE FUSE AND BEFORE FLASHER FILTERS, MOUNTED USING 150 VOLT MINIMUM BREAKDOWN INSULATED HOLLOW RIVIT USING #8-32 SCREWS.

10 EACH 12 WIRE TERMINAL BLOCK (PENN UNION #6012 OR MARATHON #6012 OR APPROVED EQUAL).

3 EACH 4 PDT 10 AMPERE 250 VOLT A.C. SWITCH (CUTLER-HAMMER #7665 KA, CARLING ELECTRIC IL 253 OR APPROVED EQUAL).

1 EACH GROUND BUS BAR WITH 15 GROUND TERMINAL POINTS.

THE CABINET SHALL BE BASE MOUNTED AND FURNISHED WITH FOUR 3/4" X 16" ANCHOR BOLTS FOR KEYING TO A CONCRETE FOUNDATION. A DRAWING SHOWING PROPER CONSTRUCTION OF THE CABINET FOUNDATION AND METHOD OF MOUNTING THE CABINET SHALL BE FURNISHED.

THE CABINET SHALL BE EQUIPPED WITH A TOP MOUNTED VENTILATING FAN 134 C. F. M. AT 0.160" OF WATER STATIC PRESSURE AND WITH A SEPARATE ADJUSTABLE THERMOSTAT.

625 CONTROLLER CABINET (38.00 CU. FT.) CONT'D)

THE OUTGOING TRAFFIC CONTROL SIGNAL CIRCUITS SHALL BE OF THE SAME POLARITY AS THE LINE SIDE OF THE POWER SUPPLY; THE COMMON RETURN OF THE SIGNAL CIRCUIT SHALL BE OF THE SAME POLARITY AS THE GROUND SIDE OF THE POWER SUPPLY.

THE GROUNDED SIDE OF THE POWER SUPPLY SHALL BE GROUNDED TO THE CONTROLLER CABINET IN AN APPROVED MANNER.

ALL CAST PIECES SHALL BE CLEAN, SMOOTH AND FREE FROM FLAWS, CRACKS, BLOWHOLES AND OTHER IMPERFECTIONS.

AN ACCEPTABLE FLEXIBLE PLASTIC OR OTHER INSULATING MATERIAL TO BE MOUNTED WITH SHEET METAL SCREWS TO COVER SWITCHES ON THE POLICE PANEL.

THE CABINET AND FAN HOUSING SHALL BE PRIME COATED AND SHALL BE FINISHED WITH TWO COATS OF YELLOW ENAMEL PAINT USING FEDERAL STANDARD 595, COLOR 13655.

PAYMENT FOR ITEM 625 SIGNAL CONTROLLER CABINET, 38.00 CU. FT. SHALL BE AT THE UNIT PRICE BID PER EACH, COMPLETE (IN PLACE) WITH ALL ACCESSORIES AND ANCHOR BOLTS FURNISHED.

LOOP DETECTOR AMPLIFIER

THE LOOP DETECTOR AMPLIFIER IS AN ELECTRONIC DEVICE THAT WILL DETECT THE PRESENCE OR MOTION OF A MASS OF METAL. THIS DETECTION IS ACCOMPLISHED BY THE PASSAGE OF A CAR OVER A WIRE LOOP IMBEDDED IN THE ROADWAY.

THE AMPLIFIER SHALL CONFORM TO THE FOLLOWING:

1. THE DETECTOR SHALL OPERATE SATISFACTORY AT ANY TEMPERATURE BETWEEN -30°F AND +165°F.
2. THE OPERATING VOLTAGE SHALL BE 115 VOLT, 60 CYCLE.
3. THE INTERNAL CIRCUITRY SHALL BE INCORPORATED INTO PRINTED CIRCUIT BOARD ASSEMBLIES.
4. THE DETECTOR DESIGN SHALL INCLUDE A FIXED FREQUENCY CRYSTAL WHICH WILL GENERATE A SINE WAVE FORM OF SIGNAL.
5. NO EXTERNAL EQUIPMENT SHALL BE NECESSARY FOR INSTALLATION, TUNING OR SENSITIVITY ADJUSTMENTS.
6. VARIOUS TYPES OF OUTPUTS SHALL BE AVAILABLE INCLUDING PULSE AND PRESENCE. THESE OUTPUTS SHALL BE AVAILABLE BY SWITCHING FROM ONE TO THE OTHER WITHOUT CHANGING ANY INTERNAL PARTS.
7. ALL TRANSITORS, CRYSTALS, AND RELAYS SHALL BE OF THE PLUG-IN TYPE TO FACILITATE REPLACEMENT.
8. THE AMPLIFIER AND POWER SUPPLY SHALL BE CAPABLE OF DRIVING SEVERAL LOOPS FROM THE ONE SOURCE. THE AMPLIFIER SHALL BE CAPABLE OF DETECTING VEHICLES IN A TOTAL AREA OF UP TO 400 SQ. FT. AND SHALL PROPERLY FUNCTION WITH LEAD-IN LENGTHS TOTALING UP TO 750 FEET.

THE ABOVE TYPES OF LOOP DETECTOR AMPLIFIERS AND POWER SUPPLY SHALL BE AUTOMATIC SIGNAL NO. LD-1 OR LD-2 DECATUR NO. L.S.M.H. OR AUTOMATIC CONTROL EQUIPMENT MODEL LD-100 OR APPROVED EQUAL.

PAYMENT FOR ITEM 625 "LOOP DETECTOR AMPLIFIER" WILL BE MADE AT THE CONTRACT UNIT PRICE FOR EACH DETECTOR AMPLIFIER, COMPLETELY WIRED AND INSTALLED IN CONTROLLER CABINET.

625 SIGNAL CABLE #14 AWG, BY TYPE

TRAFFIC SIGNAL CABLE SHALL BE WEATHERPROOF AND SHALL CONSIST OF THE NUMBER OF CONDUCTORS AS SPECIFIED ON THE PLANS. ALL CONDUCTORS SHALL BE AWG #14. CABLES SHALL BE INSULATED, JACKETED, RATED 600 VOLTS FOR USE IN UNDERGROUND CONDUIT OR AS AERIAL CABLE SUPPORTED BY A MESSENGER. IT SHALL BE COLOR CODED AND IN EVERY RESPECT FOLLOW THE INTERNATIONAL MUNICIPAL SIGNAL ASSOCIATION SPECIFICATION NUMBER 19-1-1967. WIRES MAY BE SOLID OR STRANDED.

PAYMENT FOR ITEM 625 "TRAFFIC SIGNAL CABLE #14 AWG" WILL BE MADE AT THE CONTRACT UNIT PRICE PER LINEAL FOOT BY TYPE, IN PLACE, COMPLETED AND ACCEPTED, INCLUDING WIRING, TERMINALS, CONNECTIONS, TESTING, AND ALL INCIDENTALS NECESSARY.

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625 INTERCONNECT CABLE/C #14 AWG IMSA 19-1-67

INTERCONNECT CABLE SHALL BE WEATHERPROOF AND SHALL CONSIST OF THE NUMBER OF CONDUCTORS AS SPECIFIED ON THE PLANS. ALL CONDUCTORS SHALL BE A.W.G. #14. CABLES SHALL BE INSULATED, JACKETED, RATED AT 600 VOLTS FOR USE IN UNDERGROUND CONDUIT OR AS AERIAL CABLE SUPPORTED BY A MESSENGER. IT SHALL BE COLOR CODED AND IN EVERY RESPECT FOLLOW THE INTERNATIONAL MUNICIPAL SIGNAL ASSOCIATION SPECIFICATION NUMBER (19-1-67). CONDUCTORS MAY BE SOLID OR STRANDED.

PAYMENT FOR ITEM 625 "INTERCONNECT CABLE CONDUCTOR #14 AWG" WILL BE MADE AT THE LINEAL PRICE BID PER LINEAL FOOT, IN PLACE, COMPLETED, AND ACCEPTED INCLUDING WIRING, TERMINALS, CONNECTIONS, SPLICING, TESTING AND ALL INCIDENTALS NECESSARY.

POWER CABLE 3/C #8 AWG - RHW (OR RHW TYPE) STRANDED

POWER CABLE SHALL BE WEATHERPROOF AND SHALL BE 3 CONDUCTOR AWG #8 RHW (OR RHW TYPE) STRANDED COPPER. POWER CABLE SHALL BE INSTALLED FROM THE CONTROLLER CABINET THROUGH THE APPROPRIATE CONDUIT, SIGNAL POLE, AND WEATHERHEAD. IT SHALL BE ATTACHED BY THE OHIO EDISON COMPANY OR THE CITY OF NILES LIGHT DEPARTMENT POWER COMPANY TO THE SERVICE CABLE WITH PRESSURE CONNECTORS COVERED WITH MASTIC INSULATION. THREE SINGLE CONDUCTORS #8 RHW WIRES MAY BE SUBSTITUTED; HOWEVER, PAYMENT WILL BE BASED UPON THE EQUIVALENT LENGTH OF A 3 CONDUCTOR CABLE.

PAYMENT FOR ITEM 625 "POWER CABLE" WILL BE MADE AT THE CONTRACT UNIT PRICE PER LINEAL FOOT, IN PLACE, COMPLETE AND ACCEPTED, INCLUDING WIRING, TERMINALS, CONNECTIONS, TESTING, AND ALL INCIDENTALS NECESSARY AND SHALL ALSO INCLUDE ANY COSTS INCURRED TO ARRANGE THE SERVICE INSTALLATION BY THE ABOVE NAMED POWER COMPANY OR THE CITY IN CONFORMANCE WITH THE PLANS.

LOOP DETECTOR WIRE AND LEAD-IN CABLE

LOOP DETECTOR WIRE SHALL CONSIST OF SINGLE CONDUCTOR, INSULATED, NO. 14 AWG RHW/ OR RHW TYPE 600 V. STRANDED COPPER WIRE, AND BE INSTALLED IN ACCORDANCE WITH THE TYPICAL LOOP DETECTOR DETAIL. EACH WIRE LOOP SHALL CONSIST OF THE NUMBER OF TURNS AS REQUIRED BY THE MANUFACTURER OF THE LOOP DETECTOR. THE LOOP WIRE SHALL RUN CONTINUOUSLY TO THE ADJACENT PULL BOX WHERE IT SHALL BE SPLICED TO THE LOOP DETECTOR LEAD-IN CABLE.

PAYMENT FOR ITEM 625 "LOOP DETECTOR WIRE" WILL BE MADE AT THE CONTRACT UNIT PRICE PER LINEAL FOOT IN PLACE FOR #14 DETECTOR WIRE AND SHALL INCLUDE DETECTOR WIRE, INSTALLATION, JACKET, CONDUIT FROM ROADWAY EDGE TO PULLBOX SPLICE AND ALL INCIDENTALS NECESSARY TO COMPLETE THE INSTALLATION. THE ESTIMATED QUANTITIES OF LOOP DETECTOR WIRE SHOWN ON THE PLANS IS BASED ON AN ANTICIPATED REQUIRED NUMBER OF TURNS. PAYMENT WILL BE BASED ON THE ACTUAL LINEAL FEET INSTALLED AS THIS IS CONTROLLED BY THE DETECTOR MANUFACTURER'S REQUIREMENTS FOR LOOPS.

PAYMENT FOR ITEM 625 "LOOP DETECTOR LEAD-IN CABLE" WILL BE MADE AT THE CONTRACT UNIT PRICE PER LINEAL FOOT IN PLACE FOR #14 AWG 2 COND, POLYETHYLENE INSULATED, TWISTED PAIR, SHIELDED AND JACKETED CABLE, INCLUDING SOLDERED WATERPROOF POURED SPLICE.

625 CABLE SUPPORT ASSEMBLY

A CABLE SUPPORT ASSEMBLY SHALL BE INSTALLED FOR EACH GROUP OF CABLES PASSING THROUGH EACH WIRE OUTLET NEAR THE TOP OF POLE, IT SHALL BE ATTACHED TO THE "J" HOOK AS SHOWN IN THE PLANS AND SHALL CONSIST OF THE FOLLOWING MAJOR ITEMS:

1. ONE PIECE OF THREE STRAND COPPER-CLAD MESSENGER, LENGTH AS REQUIRED.
2. TWO HOT-DIPPED GALVANIZED THIMBLES.
3. TWO #6 SPLIT BOLT CONNECTORS.
4. ONE BRONZE OR STAINLESS STEEL CABLE GRIP WITH SINGLE "U" EYE BALE.
5. ALL OTHER MISCELLANEOUS ITEMS THAT MAY BE NECESSARY TO MAKE THE ASSEMBLY COMPLETE.

625 CABLE SUPPORT ASSEMBLY (CONT'D)

THE MESSENGER SHALL BE 0.164 INCHES IN DIAMETER CONSISTING OF THREE STRANDS OF 0.075 INCH COPPER-COVERED STEEL WIRES TWISTED IN THE FORM OF A CABLE. GUY THIMBLES SHALL BE GROOVED TO FIT THE GUY STRAND AND BENT TO THE PROPER RADIUS TO PREVENT THE STRAND FROM BEING SHARPLY BENT. THE CABLE GRIP SHALL HAVE A SINGLE "U" EYE BALE. THE GRIPS SHALL BE OF THE PROPER SIZE TO FIT THE CABLE AND SHALL HAVE A MINIMUM RATED BREAKING STRENGTH OF 250 LBS.

THE GRIP SHALL BE EITHER THE "CLOSED", OR "SPLIT WITH ROD" TYPE.

PAYMENT FOR ITEM 625 "CABLE SUPPORT ASSEMBLY" WILL BE MADE AT THE CONTRACT UNIT PRICE EACH, COMPLETELY ASSEMBLED IN PLACE AND ACCEPTED.

LOOP DETECTOR PAVEMENT CUTTING

LOOP DETECTOR PAVEMENT CUTTING SHALL CONSIST OF A 1-1/4 INCH OR 2 INCH X 1/4 INCH WIDE SAW CUT IN ACCORDANCE WITH TYPICAL LOOP DETECTOR INSTALLATION DETAIL. THE SAW CUT SHALL BE FILLED WITH A JOINT SEALER AFTER THE WIRE HAS BEEN INSTALLED. THE JOINT SEALER SHALL BE AS SPECIFIED ON SHEET NO. 168-A.

PAYMENT FOR ITEM 625 "LOOP DETECTOR PAVEMENT CUTTING" WILL BE MADE AT THE CONTRACT UNIT PRICE PER LINEAL FOOT FOR SAW CUTTING AND TREATMENT INCLUDING JOINT SEALER.

625 GROUND RODS

THIS ITEM OF WORK SHALL CONSIST OF FURNISHING AND INSTALLING GROUND ROD AND CABLE AS DETAILED AND SPECIFIED ON SHEET NO. 168.

THE CABLE SHALL BE EXOTHERMICALLY WELDED TO THE TOP OF THE GROUND ROD.

BASIS OF PAYMENT FOR THIS ITEM SHALL BE AT CONTRACT UNIT PRICE PER EACH, WHICH SHALL INCLUDE ALL LABOR, MATERIALS AND EQUIPMENT REQUIRED TO COMPLETE THIS ITEM OF WORK.

ITEM 625 - CONDUIT JACKED UNDER PAVEMENT, AS PER PLAN

THIS ITEM SHALL CONSIST OF INSTALLING CONDUIT OF THE SIZE OR SIZES INDICATED UNDER EXISTING PAVEMENT AND CONTIGUOUS SHOULDERS BY AN APPROVED METHOD SUCH AS "DRILLING" OR "JACKING".

THE CONTRACTOR SHALL PLACE THE CONDUIT WITH THE LEAST AMOUNT OF DISTURBANCE TO THE EXISTING PAVEMENT, SUBBASE, BERM PAVEMENT, OR SHOULDERS OF THE ROADWAY. ALL PUSH PITS OR ANY NECESSARY EXCAVATIONS SHALL BE BACKFILLED AND RESTORED IN ACCORDANCE WITH 625.0L. MEASUREMENT OF THE CONDUIT SHALL BE THE ACTUAL AMOUNT OF LINEAL FEET INSTALLED UNDER PAVEMENT AND SHOULDERS, MEASURED IN PLACE, AS ACCEPTED BY THE ENGINEER. THE UNIT PRICE BID FOR ITEM 625 "CONDUIT JACKED UNDER PAVEMENT, AS PER PLAN" SHALL BE FULL COMPENSATION FOR EXCAVATION, DRILLING OR JACKING, BACKFILLING, COMPACTION, RESTORATION, AND ALL LABOR, MATERIAL, EQUIPMENT, AND INCIDENTALS NECESSARY TO COMPLETE THE WORK AS SPECIFIED. A QUANTITY OF 420 L.F. HAS BEEN INCLUDED FOR USE AS DIRECTED BY THE ENGINEER.

625 WEATHERHEAD AND CONDUIT RISER

THE WEATHERHEAD AND CONDUIT RISER SHALL PROVIDE A WIRING RACEWAY FOR SIGNAL CABLE FROM THE CONTROLLER TO THE OVERHEAD SPAN WIRE.

THE WEATHERHEAD AND CONDUIT RISER SHALL CONSIST OF A WEATHERHEAD, TWO (2) INCH CONDUIT, TWO (2) INCH CONDUIT FITTINGS AND ELLS, AND STAINLESS STEEL STRAPS AS SHOWN IN DETAIL _____ ON PAGE _____.

THE WEATHERHEAD SHALL BE CAST ALUMINUM OR GALVANIZED CAST FERROUS METAL AND SHALL PREVENT ENTRY OF WATER INTO THE CONDUIT.

614 MAINTENANCE OF EXISTING SIGNAL INSTALLATION

THE EXISTING TRAFFIC SIGNAL (S) SHALL BE KEPT IN OPERATION UNTIL THE NEW SIGNAL IS OPERATIONAL. IF EXISTING ITEMS ARE TO BE INCORPORATED INTO THE NEW SIGNAL, SUCH ITEMS SHALL NOT BE REINSTALLED UNTIL ALL OTHER NEW WORK WHICH CAN BE DONE PRIOR TO THE RELOCATION WORK IS COMPLETED. AT THIS TIME, THE EXISTING SIGNAL MAY BE TURNED OFF. WHEN NOT IN OPERATION, SIGNAL HEADS SHALL BE BAGGED. WHEN NO SIGNAL IS IN OPERATION, AT THE LOCATION, TRAFFIC SHALL BE MAINTAINED THROUGH THE USE OF (STOP SIGNS; POLICE OFFICERS).

SIGNAL CONTROL OF THE INTERSECTION SHALL NOT BE INTERRUPTED DURING THE HOURS OF _____AM TO _____AM AND _____PM TO _____PM ON WEEKDAYS. SIGNALS SHALL BE INOPERATIVE NO LONGER THAN SIX HOURS.

PAYMENT WILL BE INCLUDED IN THE LUMP SUM PRICE BID FOR "ITEM 614, MAINTENANCE OF TRAFFIC".

202 REMOVAL OF EXISTING SIGNAL INSTALLATION

IN ACCORDANCE WITH STANDARD SPECIFICATION 202, THIS ITEM SHALL INCLUDE THE REMOVAL OF THE SIGNAL HEADS, CONTROLLER, STRAIN POLES, POLE FOUNDATIONS CABLES, MESSENGER WIRES, AND ALL OTHER PORTIONS OF THE EXISTING TRAFFIC SIGNAL WHICH ARE NOT TO BE REUSED IN THE NEW INSTALLATION.

WITH THE EXCEPTION OF ITEMS TO BE RELOCATED AND INCORPORATED INTO THE NEW INSTALLATIONS OR WHOSE REMOVAL IS OTHER WISE NECESSARY TO PERMIT THE INSTALLATION OF THE NEW SIGNAL EQUIPMENT, NO ITEM SHALL BE REMOVED UNTIL THE NEW INSTALLATION IS IN FULL OPERATION UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

THE CONTRACTOR SHALL CAREFULLY REMOVE AND STORE WITHIN THE RIGHT OF WAY, ALL TRAFFIC CONTROL EQUIPMENT AND APPURTENANCES. THE EQUIPMENT SHALL BECOME THE PROPERTY OF THE CITY OF NILES.

THE CONTRACTOR SHALL NOTIFY THE LIGHT DEPARTMENT OF THE CITY OF NILES 24 HOURS BEFORE REMOVAL OF ANY ITEMS.

PAYMENT FOR "ITEM 202, REMOVAL OF EXISTING SIGNAL INSTALLATION" WILL BE MADE AT THE UNIT PRICE BID PER EACH INTERSECTION WHEREIN EXISTING SIGNAL EQUIPMENT IS TO BE REMOVED.

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625 COVERING OF TRAFFIC SIGNAL HEADS

ALL TRAFFIC SIGNAL HEADS, BOTH VEHICULAR AND PEDESTRIAN, ERECTED AT LOCATIONS WHERE TRAFFIC WILL BE MAINTAINED PRIOR TO ENERGIZING OF THE SIGNAL, SHALL BE COVERED.

THE COVERING SHALL BE PLASTIC COATED BURLAP BLANKETS AS PER ITEM 705.06, THEY SHALL BE FIRMLY ATTACHED AND COMPLETELY COVER THE SIGNAL HEAD WITHOUT DAMAGE TO THE HEAD. THE COVERING SHALL BE MAINTAINED IN PLACE AT ALL TIMES WHILE TRAFFIC IS USING THE AREA AND THE SIGNAL IS NOT IN OPERATION.

PAYMENT SHALL BE AT THE UNIT PRICE BID PER EACH FOR ITEM 625 "COVERING OF TRAFFIC SIGNAL HEADS" WHICH SHALL BE FULL COMPENSATION FOR ALL LABOR, MATERIALS AND EQUIPMENT REQUIRED TO ERECT, MAINTAIN AND REMOVE THE COVERING.

816 CONCRETE FOR CONTROLLER AND PEDESTAL FOUNDATION

CONTROLLER AND PEDESTAL FOUNDATIONS SHALL BE CONSTRUCTED AS SHOWN IN THE PLAN. THE CONTRACTOR SHALL STAKE THE LONGITUDINAL AND LATERAL LOCATION AND ELEVATION OF THE TOP OF EACH FOUNDATION SUBJECT TO THE APPROVAL OF THE ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER ELEVATION, OFFSET AND LEVELED EACH FOUNDATION. EXCAVATIONS SHALL BE MADE TO THE DIMENSIONS SHOWN ON THE PLANS. WHERE SUB-SURFACE OBSTRUCTIONS ARE ENCOUNTERED, THE ENGINEER MAY REQUIRE THE CONTRACTOR TO REMOVE THE OBSTRUCTION OR TO REPLACE THE EXCAVATED MATERIAL AND RELOCATE THE FOUNDATION. IF CAVING OF THE EXCAVATION OCCURS, THE CONTRACTOR SHALL EXCAVATE TO THE SPECIFIED DEPTH, MAINTAINING THE SIDEWALLS AS NEARLY VERTICAL AS POSSIBLE. NO PAYMENT SHALL BE MADE FOR ANY EXCAVATION OR CONCRETE USED IN EXCESS OF THE PLANNED QUANTITIES.

PORTLAND CEMENT CONCRETE SHALL BE USED AND SHALL CONFORM WITH CLASS "C" OF THE CURRENT CONSTRUCTION OF MATERIAL SPECIFICATIONS PREPARED BY THE DEPARTMENT OF HIGHWAYS OF THE STATE OF OHIO. THE CONCRETE SHALL BE PLACED AGAINST UNDISTURBED SOIL OR COMPACTED EMBANKMENT. THE FOUNDATION SHALL HAVE ANCHOR BOLTS AND CONDUIT ACCURATELY HELD IN POSITION WITH A TEMPLET WHEN CONCRETE IS POURED. FORMS SHALL BE USED FOR THE UPPER PORTION OF ALL FOUNDATIONS AND NO BACKFILLING SHALL BE PERMITTED FROM THE BOTTOM TO WITHIN 6 INCHES BELOW GROUND LEVEL.

CONCRETE FOR SERVICE STEP IN FRONT OF CONTROLLER AS SHOWN IN DETAIL ON SHEET NO. 166 WILL BE INCLUDED IN THE ABOVE DESCRIBED CONCRETE.

PAYMENT OF ITEM 816 "CONCRETE FOR CONTROLLER AND PEDESTAL FOUNDATION" SHALL BE MADE PER CUBIC YARD FOR EACH FOUNDATION CONSTRUCTED IN ACCORDANCE WITH THE TYPICAL FOUNDATION DETAILS AND SHALL INCLUDE CONCRETE, EXCAVATION AND BACKFILL.

816 ROCK EXCAVATION

WHERE SOLID ROCK IS ENCOUNTERED IN EXCAVATION FOR SIGN SUPPORT FOUNDATIONS, THE DEPTH TO BE EXCAVATED BELOW ROCK SURFACE MAY BE DECREASED AS DIRECTED BY THE ENGINEER TO A MAXIMUM OF THIRTY FIVE (35) PERCENT OF DEPTH SPECIFIED IN THE PLANS.

816 CONCRETE FOR SIGNAL SUPPORT FOUNDATIONS

PAYMENT FOR THIS ITEM SHALL BE BASED ON PLAN DIMENSIONS (OR DIMENSIONS AS MODIFIED BY THE ENGINEER IN LIEU OF PLAN QUANTITIES) AS REQUIRED IN SUPPLEMENTAL SPECIFICATION 816.

PAYMENT FOR REINFORCING STEEL AND INSTALLATION ONLY OF ANCHOR BOLTS AND CONDUIT ELLS SHALL BE INCLUDED IN THE COST OF CONCRETE FOR SIGNAL SUPPORT FOUNDATIONS. CONCRETE SHALL BE CLASS "C".

BASIS OF PAYMENT SHALL BE PER CUBIC YARD FOR ITEM 816 "CONCRETE FOR SIGNAL SUPPORT FOUNDATIONS".

MESSENGER WIRE 7 - STRAND (BY SIZE) WITH ACCESSORIES

MESSENGER WIRE SHALL BE UTILITY GRADE GALVANIZED STEEL AS PER ASTM A-363-65. IT SHALL CONSIST OF SEVEN STRAND (3/8" NOMINAL DIAMETER WITH A BREAKING LOAD OF 11,500LBS.). GALVANIZED STEEL LASHING RODS SHALL BE USED TO SUSPEND THE SIGNAL CABLE FROM THE MESSENGER WIRE, TIGHTLY SECURED. WET-PORCELAIN STRAIN INSULATORS (600 VOLT), GUY CLAMPS, AND GALVANIZED PERFORMED GUY GRIP DEAD ENDS, THIMBLES, AND BULL RINGS (WHEN REQUIRED) WITH A RATED LOADING STRENGTH EQUAL TO OR GREATER THAN THE BREAKING LOAD OF THE MESSENGER WIRE SHALL BE INSTALLED AS SHOWN ON THE PLANS AND/OR SPECIFIED BY THE ENGINEER. THE MESSENGER WIRE SHALL BE INSTALLED SO THAT THE ENTIRE LOAD OF THE SIGNAL EQUIPMENT WILL NOT CAUSE SAG TO EXCEED A MAXIMUM OF 5% OR A MINIMUM OF 3% OF THE SPAN.

PAYMENT FOR ITEM 625 "MESSENGER WIRE (BY SIZE) 7 STRAND WITH ACCESSORIES" WILL BE MADE AT THE CONTRACT UNIT PRICE PER LINEAL FOOT (MEASURED TO CENTER OF POLE OR AERIAL CORNERS) COMPLETELY ASSEMBLED IN ACCORDANCE WITH THE TYPICAL SIGNAL INSTALLATION DETAILS AND SHALL INCLUDE MESSENGER WIRE, LASHING RODS, STRAIN INSULATORS, PREFORMED GUY GRIPS, THIMBLES, GUY CLAMPS, AND AERIAL CORNER BULL RINGS, AS DESCRIBED ABOVE AND SHOWN ON THE DETAILS ON SHEET NO. 167.

DESIGN INFORMATION

7 STRAND - UTILITY GRADE

NOMINAL SIZE	GALVANIZED ASTM-A-363-65	ALUMINUM CLAD ASTM-A-474-68	COPPER CLAD ASTM-A-460-68	
	BREAKING LOAD	BREAKING LOAD	BREAKING LOAD	DIAMETER
5/16"	6,000 #	6,000 #	6,000 #	0.237"
3/8"	11,500	11,500	8,000	0.276"
7/16"	18,000	18,000	10,000	0.303"
1/2"	25,000	25,000	12,000	0.345"
			16,000	0.386"
5/8"	N-A-UTILITY GRADE	N-A-UTILITY GRADE	18,000	0.414"
			20,000	0.438"

VOID

THE ABOVE MATERIALS, (COPPER OR ALUMINUM CLAD) MAY BE SUBSTITUTED IF THE MAINTAINING AGENCY SPECIFICALLY REQUESTS - THE DESCRIPTION FOR THE HARDWARE SHALL ALSO BE REVISED TO A COMPATABLE MATERIAL.

THE SIZE OF THE WIRE SHOULD BE REVISED, ACCORDING TO THE TABLE ABOVE, IF REQUIRED FOR INCREASED OR DECREASED STRENGTH. WHEN WIRE SIZES ARE REVISED, SPAN WIRE CLAMPS FOR SIGNALS AND SIGNS SHOULD BE REVISED, IF NECESSARY TO FIT.

WORKING STRENGTH = 60% OF BREAKING LOAD.

816 SIGNAL STRAIN POLE BY SIZE

THIS ITEM OF WORK SHALL CONSIST OF FURNISHING AND ERECTION OF POLES AS SHOWN AND SPECIFIED IN THE PLANS.

SHAFTS SHALL BE TAPERED TUBES.

EACH POLE SHALL BE GALVANIZED AND INCLUDE THE FURNISHING OF ANCHOR BOLTS, TYPE III RIGID FERROUS METAL 3" CONDUIT ELL AND A 3/4" ELECTRICAL METALLIC TUBING ELL FOR GROUNDING LEAD FOR INSTALLATION IN FOUNDATIONS PLUS HANDHOLE WITH COVER, "J" HOOK, POLE CLAMP, AND CABLE SERVICE ENTRANCE WITH BLIND HALF-COUPLING FOR EACH POLE IN ACCORDANCE WITH DETAILS ON SHEET NO. 167 & 168.

THE POLES SHALL BE INSTALLED AND ADJUSTED TO THE PROPER RAKE SO THAT THE WEIGHT OF THE SIGNAL INSTALLATION WILL NOT CAUSE THE POLES TO BE OFF VERTICAL ALIGNMENT BY MORE THAN 1%.

BASIS OF PAYMENT SHALL BE AT THE CONTRACT BID PRICE PER EACH 816 SIGNAL STRAIN POLE, BY SIZE, INCLUDING ALL LABOR, MATERIAL, EQUIPMENT AND INCIDENTALS RELATED TO THIS ITEM OF WORK.

202 REMOVAL OF EXISTING SIGNAL INSTALLATION

THE REMOVAL OF THE EXISTING SIGNAL INSTALLATIONS SHALL BE MADE IN COOPERATION WITH THE STATE'S SIGNAL CREWS AND AT THE DIRECTION OF THE ENGINEER.

NO ITEM SHALL BE REMOVED UNTIL THE NEW INSTALLATION IS IN FULL OPERATION UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

THE CONTRACTOR SHALL NOTIFY THE DIVISION SIGNAL OFFICE AT THE TIME THAT THE REMOVAL OF ITEMS ON THE EXISTING SIGNAL MAY BE PERFORMED. ITEMS OF AN SALVAGABLE NATURE WILL THEN BE REMOVED AND STORED BY OTHERS. THE CONTRACTOR WILL BE EXPECTED TO COOPERATE IN THIS OPERATION BY PROVIDING NECESSARY LIFTING EQUIPMENT IN REGARDS TO STRAIN POLE REMOVAL AND DISPOSING OF ALL ITEMS NOT TO BE SALVAGED.

THE CONTRACTOR SHALL NOTIFY THE DIVISION SIGNAL PERSONNEL SEVEN (7) DAYS PRIOR TO THE REMOVAL SO THAT ALL WORK CAN BE COORDINATED IN THIS MATTER.

PAYMENT FOR "ITEM 202, REMOVAL OF EXISTING SIGNAL INSTALLATION" WILL BE MADE AT THE UNIT PRICE BID PER EACH INTERSECTION AND SHALL INCLUDE THE PAYMENT FOR ALL EQUIPMENT, LABOR AND MATERIALS REQUIRED TO ASSIST THE DIVISION SIGNAL CREWS IN THE SALVAGABLE ITEMS, AND THE REMOVAL AND DISPOSAL OF ALL REMAINING ITEMS THAT ARE NOT TO BE SALVAGED BY STATE FORCES.

625 MAINTENANCE OF EXISTING SIGNAL INSTALLATION

THE EXISTING TRAFFIC SIGNAL SHALL BE KEPT IN OPERATION UNTIL THE NEW SIGNAL IS IN OPERATION, EITHER BY THE COMPLETE USAGE OF THE EXISTING EQUIPMENT AND/OR IN COMBINATION WITH THE NEW SIGNAL EQUIPMENT.

WHEN NOT IN OPERATION SIGNAL HEADS (NEW OR EXISTING) SHALL BE BAGGED. DURING THE TRANSFER PERIOD OR ANY PERIOD WHEN THERE IS NO SIGNAL IN OPERATION TRAFFIC SHALL BE MAINTAINED THROUGH THE USE OF POLICE OFFICERS PROVIDED BY THE CONTRACTOR.

SIGNAL DOWN TIME FOR THE TRANSFER AND/OR ANY INTERRUPTION OF OPERATION SHALL BE A MAXIMUM OF TWO (2) HOURS BETWEEN 9:00 A.M. AND 11:00 A.M. OR 1:00 P.M. AND 3:00 P.M.

THIS ITEM SHALL CONSIST OF MAINTAINING THE EXISTING SIGNAL SYSTEM DURING THE PERIODS THAT THE NEW CONSTRUCTION AFFECTS THE EXISTING OPERATION AND WILL REMAIN UNTIL THE EXISTING SIGNAL IS NO LONGER REQUIRED FOR TRAFFIC CONTROL.

THE ITEM WILL THEN CONSIST OF MAINTAINING THE NEW SIGNAL TO THE SATISFACTION OF THE ENGINEER, OPERATING ON A FIXED TIME CYCLING PHASEING UNTIL SUCH TIME THAT THE PAVEMENT LOOP DETECTORS AND OTHER RELATIVE EQUIPMENT ARE COMPLETED AND WIRED INTO THE CONTROLLER PHASEING FOR THE INTERSECTION INVOLVED.

THE BASIS OF PAYMENT FOR THIS ITEM WILL BE AT THE UNIT PRICE BID PER EACH FOR THE PROPER COMPLIANCE OF THE CONTRACTOR OF THE PROCEEDURE OUTLINED ABOVE AND WILL COVER ALL PAYMENT FOR LABOR, EQUIPMENT AND MATERIALS REQUIRED TO COMPLETE THIS ITEM.

BRUNING 44-560 10943

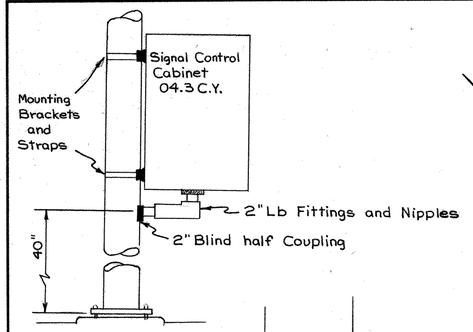
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

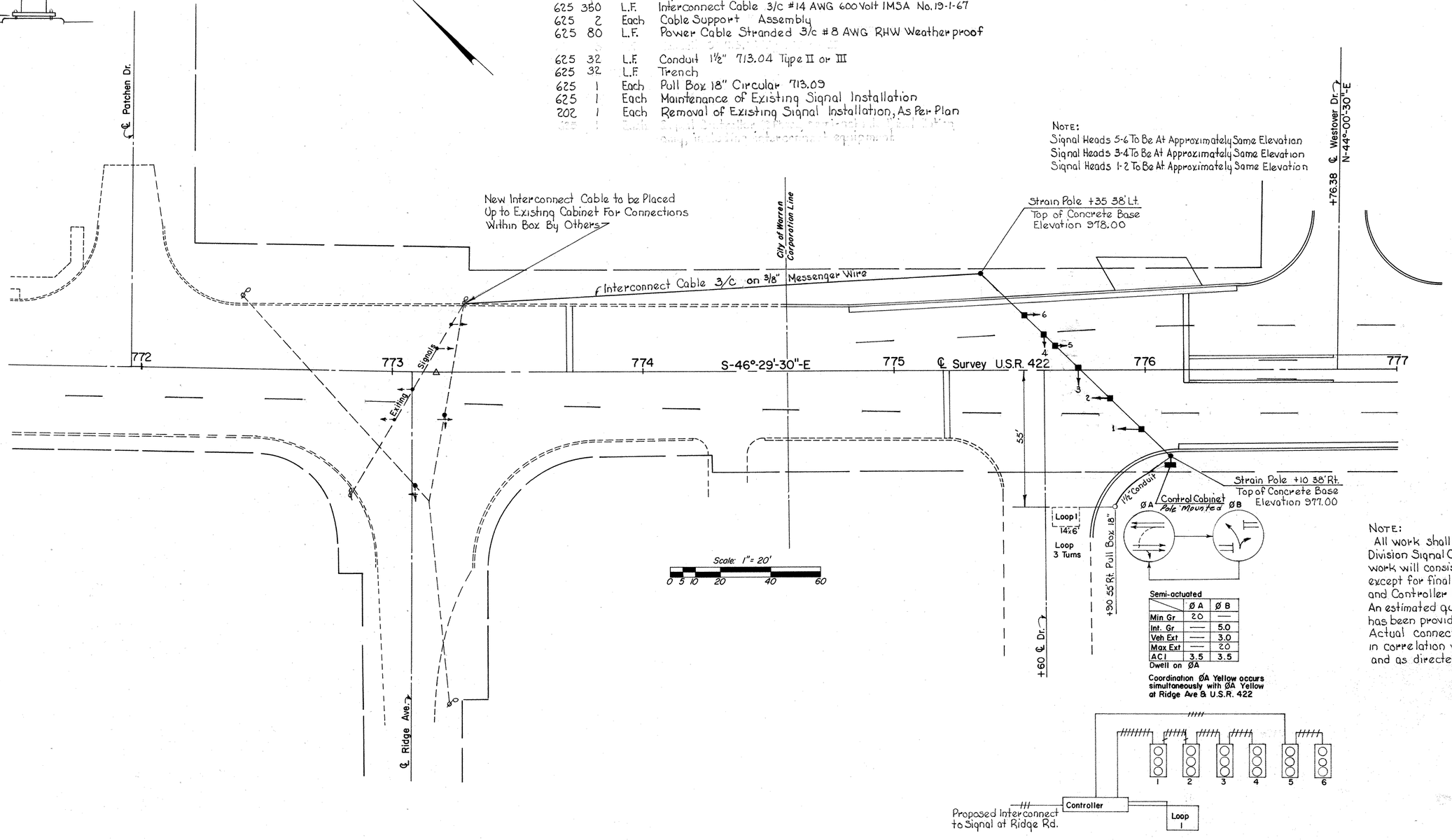
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TRU-422-(14.70)-(16.38)

ESTIMATED QUANTITIES

816	2	Each	Signal Strain Pole (Type 13) 12"x7.80", 3 gage With Type E Cable Entrance
816	4.66	C.Y.	Concrete For Signal Support Foundation
625	1	Each	Signal Control Cabinet (04.3 Cubic Feet)
625	1	Each	Loop Detector Amplifier
625	42	L.F.	Loop Detector Pavement Cutting
625	135	L.F.	Loop Detector Wire Stranded 1/c #14 Awg THW or RHW (RWW Type)
625	40	L.F.	Loop Detector Lead-in Cable 3/c #14 AWG. U.F.
625	317	L.F.	Messenger Wire, 7-Strand With Accessories, As Per Plan
625	2	Each	Ground Rod
625	6	Each	Traffic Signal Head, 3 Section, 12 Lenses, One Way
625	180	L.F.	Signal Cable 5/c #14 AWG. 600 Volt IMSA No. 19-1-67
625	90	L.F.	Signal Cable 8/c #14 AWG. 600 Volt IMSA No. 19-1-67
625	350	L.F.	Interconnect Cable 3/c #14 AWG 600 Volt IMSA No. 19-1-67
625	2	Each	Cable Support Assembly
625	80	L.F.	Power Cable Stranded 3/c #8 AWG RHW Weatherproof
625	32	L.F.	Conduit 1½" 713.04 Type II or III
625	32	L.F.	Trench
625	1	Each	Pull Box 18" Circular 713.09
625	1	Each	Maintenance of Existing Signal Installation
202	1	Each	Removal of Existing Signal Installation, As Per Plan





	Ø A	Ø B
Min Gr	2.0	—
Int. Gr	—	5.0
Veh Ext	—	3.0
Max Ext	—	2.0
ACI	3.5	3.5

NOTE:
Signal Heads 5-6 To Be At Approximately Same Elevation
Signal Heads 3-4 To Be At Approximately Same Elevation
Signal Heads 1-2 To Be At Approximately Same Elevation

NOTE:
All work shall be correlated with the Division Signal Crews. The new signal work will consist of all work completed except for final Interconnect Connection and Controller Placement by others. An estimated quantity of power cable has been provided for Current Source. Actual connection will be determined in correlation with the Power Company and as directed by the Engineer.

LINE SHEET	BY	DATE
SURVEYED		
PLOTTED	KVW	10-14-71
INKED	JBD	10-15-71
DESIGNED	JBD	10-15-71
QUANTITIES		
CHECKED BY		
DATE		

BRUNING 44-560 10943

SIGNAL INSTALLATION for RIDGE AVE. & HILL'S DEPT. STORE U.S.R. 422

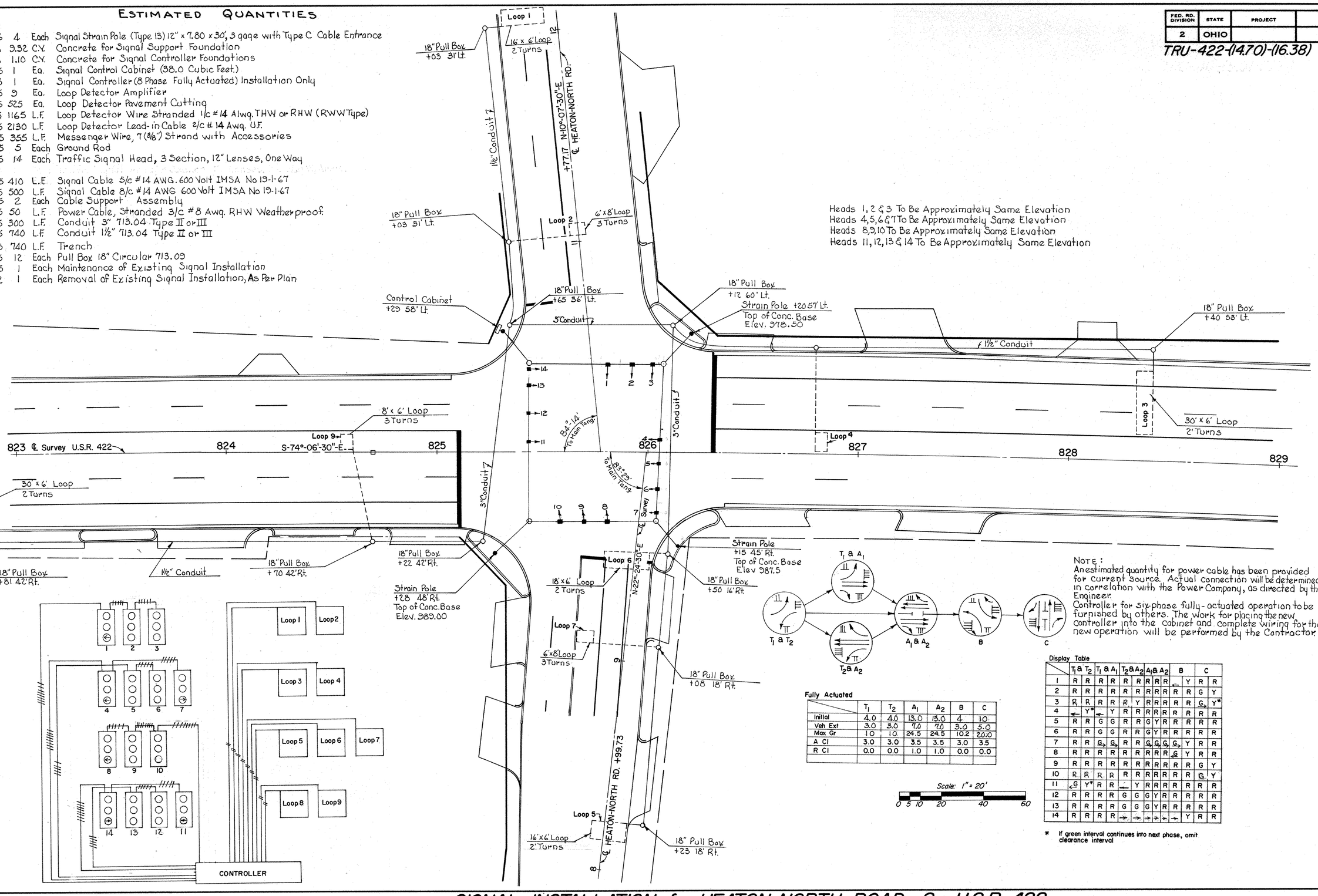
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

TRU-422-(14.70)-(16.38)

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ESTIMATED QUANTITIES

816	4	Each	Signal Strain Pole (Type 13) 12" x 7.80 x 30', 3 gage with Type C Cable Entrance
816	9.32	C.Y.	Concrete for Signal Support Foundation
816	1.10	C.Y.	Concrete for Signal Controller Foundations
625	1	Ea.	Signal Control Cabinet (38.0 Cubic Feet.)
625	1	Ea.	Signal Controller (8 Phase Fully Actuated) Installation Only
625	9	Ea.	Loop Detector Amplifier
625	525	Ea.	Loop Detector Pavement Cutting
625	1165	L.F.	Loop Detector Wire Stranded 1/c #14 Alwg. THW or RHW (RWW Type)
625	2130	L.F.	Loop Detector Lead-in Cable 2/c #14 Awg. U.F.
625	355	L.F.	Messenger Wire, 7 (3/8") Strand with Accessories
625	5	Each	Ground Rod
625	14	Each	Traffic Signal Head, 3 Section, 12" Lenses, One Way
625	410	L.F.	Signal Cable 5/c #14 AWG. 600 Volt IMSA No 19-1-67
625	500	L.F.	Signal Cable 8/c #14 AWG 600 Volt IMSA No 19-1-67
625	2	Each	Cable Support Assembly
625	50	L.F.	Power Cable, Stranded 3/c #8 Awg. RHW Weatherproof
625	300	L.F.	Conduit 3" 713.04 Type II or III
625	740	L.F.	Conduit 1½" 713.04 Type II or III
625	740	L.F.	Trench
625	12	Each	Pull Box 18" Circular 713.09
625	1	Each	Maintenance of Existing Signal Installation
202	1	Each	Removal of Existing Signal Installation, As Per Plan



NOTE:
An estimated quantity for power cable has been provided for current source. Actual connection will be determined in correlation with the Power Company, as directed by the Engineer.
Controller for six-phase fully-actuated operation to be furnished by others. The work for placing the new controller into the cabinet and complete wiring for the new operation will be performed by the Contractor.

Fully Actuated

	T_1	T_2	A_1	A_2	B	C
Initial	4.0	4.0	13.0	13.0	4	10
Veh Ext	3.0	3.0	7.0	7.0	3.0	5.0
Max Gr	10	10	24.5	24.5	10.2	20.0
A Cl	3.0	3.0	3.5	3.5	3.0	3.5
R Cl	0.0	0.0	1.0	1.0	0.0	0.0

Scale: 1" = 20'
0 5 10 20 40 60

Display Table

	T_1 & T_2	T_1 & A_1	T_2 & A_2	A_1 & A_2	B		C	
1	R R	R R	R R	R R	R	←	Y	R R
2	R R	R R	R R	R R	R R	R	G	Y
3	R R	R R	R Y	R R	R R	G→	Y*	
4	← Y*	← Y	R R	R R	R R	R	R	R
5	R R	G G	R R	G Y	R R	R	R	R
6	R R	G G	R R	G Y	R R	R	R	R
7	R R	G→ G→	R R	G G G G→	Y	R	R	
8	R R	R R	R R	R R	R R	G	Y	R R
9	R R	R R	R R	R R	R R	R	G	Y
10	R R	R R	R R	R R	R R	R	G	Y
11	← G	Y* R	R ←	Y R	R R	R	R	R
12	R R	R R	G G	G Y	R R	R	R	R
13	R R	R R	G G	G Y	R R	R	R	R
14	R R	R R	→ →	→ →	→	Y	R	R

* If green interval continues into next phase, omit clearance interval

LINE SHEET	BY	DATE
SURVEYED		
PLOTTED	KW	10-18-71
INKED	SBD	10-15-71
DESIGNED	JBD	
QUANTITIES		
CHECKED BY		
DATE		

BRUNING 44-560 10943

SIGNAL INSTALLATION for HEATON-NORTH ROAD & U.S.R. 422

ESTIMATED QUANTITIES

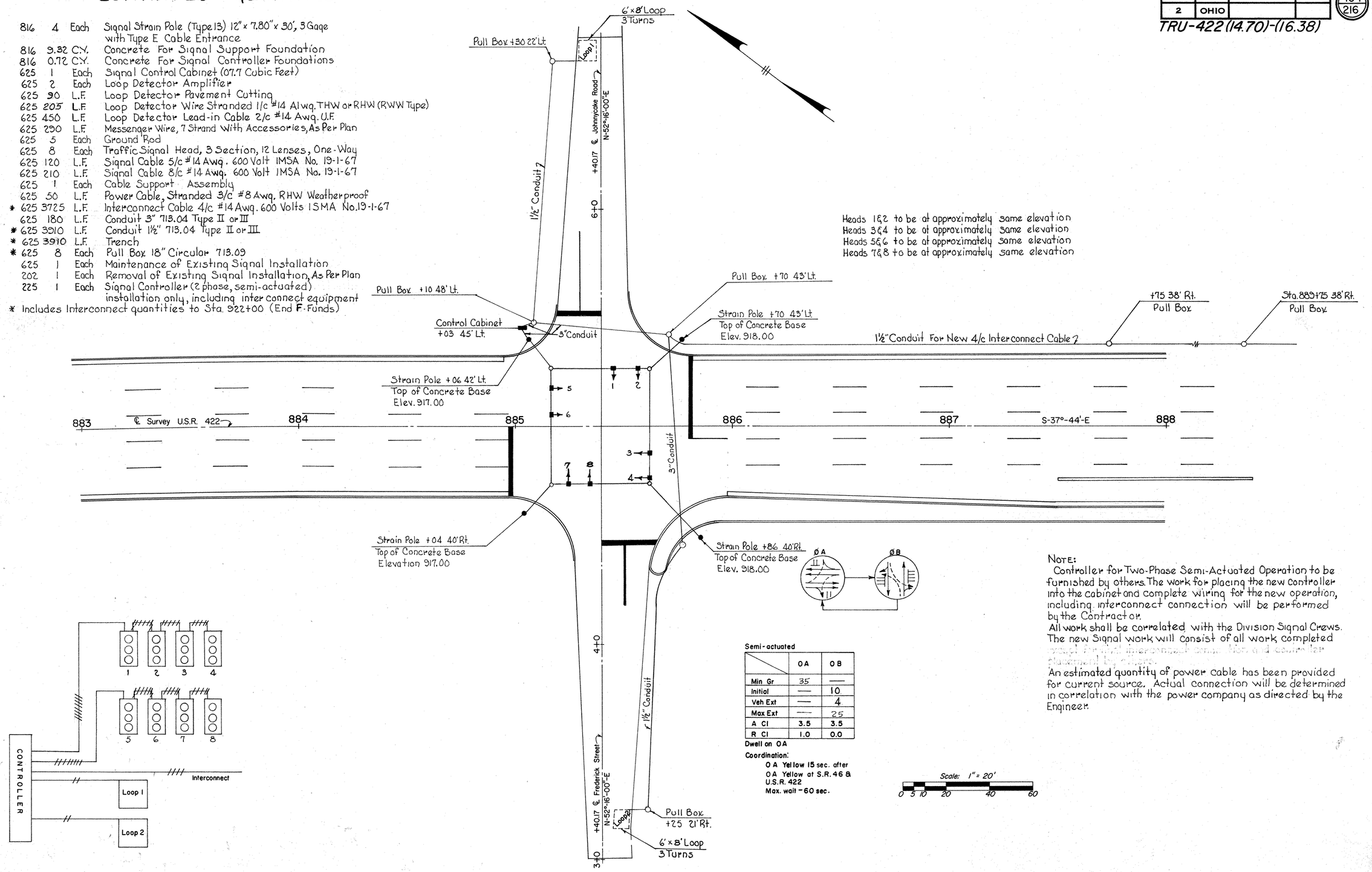
816	4	Each	Signal Strain Pole (Type 13) 12" x 7.80" x 30', 3 Gage with Type E Cable Entrance
816	9.32	C.Y.	Concrete For Signal Support Foundation
816	0.72	C.Y.	Concrete For Signal Controller Foundations
625	1	Each	Signal Control Cabinet (107.7 Cubic Feet)
625	2	Each	Loop Detector Amplifier
625	90	L.F.	Loop Detector Pavement Cutting
625	205	L.F.	Loop Detector Wire Stranded 1/c #14 Awg. THW or RHW (RWW Type)
625	450	L.F.	Loop Detector Lead-in Cable 2/c #14 Awg. U.F.
625	290	L.F.	Messenger Wire, 7 Strand With Accessories, As Per Plan
625	5	Each	Ground Rod
625	8	Each	Traffic Signal Head, 3 Section, 12 Lenses, One-Way
625	120	L.F.	Signal Cable 5/c #14 Awg. 600 Volt IMSA No. 19-1-67
625	210	L.F.	Signal Cable 8/c #14 Awg. 600 Volt IMSA No. 19-1-67
625	1	Each	Cable Support Assembly
625	50	L.F.	Power Cable, Stranded 3/c #8 Awg. RHW Weatherproof
* 625	3725	L.F.	Interconnect Cable 4/c #14 Awg. 600 Volts ISMA No. 19-1-67
625	180	L.F.	Conduit 3" 713.04 Type II or III
* 625	3910	L.F.	Conduit 1½" 713.04 Type II or III
* 625	3910	L.F.	Trench
* 625	8	Each	Pull Box 18" Circular 713.09
625	1	Each	Maintenance of Existing Signal Installation
202	1	Each	Removal of Existing Signal Installation, As Per Plan
225	1	Each	Signal Controller (2 phase, semi-actuated) installation only, including interconnect equipment

* Includes Interconnect quantities to Sta. 922+00 (End F-Funds)

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

164
216

TRU-422 (14.70)-(16.38)



Semi-actuated

	ØA	ØB
Min Gr	35	—
Initial	—	10
Veh Ext	—	4
Max Ext	—	25
A Cl	3.5	3.5
R Cl	1.0	0.0

Dwell on ØA

Coordination:
ØA Yellow 15 sec. after ØA Yellow at S.R. 46 & U.S.R. 422
Max. wait - 60 sec.

Scale: 1" = 20'
0 5 10 20 40 60

NOTE:
Controller for Two-Phase Semi-Actuated Operation to be furnished by others. The work for placing the new controller into the cabinet and complete wiring for the new operation, including interconnect connection will be performed by the Contractor.
All work shall be correlated with the Division Signal Crews. The new Signal work will consist of all work completed except for the interconnect cable, fibre and source for current by others.
An estimated quantity of power cable has been provided for current source. Actual connection will be determined in correlation with the power company as directed by the Engineer.

LINE SHEET

	BY	DATE
SURVEYED		
PLOTTED	KW	10-13-71
TRACED	JBD	10-14-71
CHECKED		
BRUSHED	JBD	10-14-71
QUANTITIES		

BRUNING 44-560 10943

SIGNAL INSTALLATION for FREDERICK ST.-JOHNNYCAKE RD. & U.S.R. 422

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

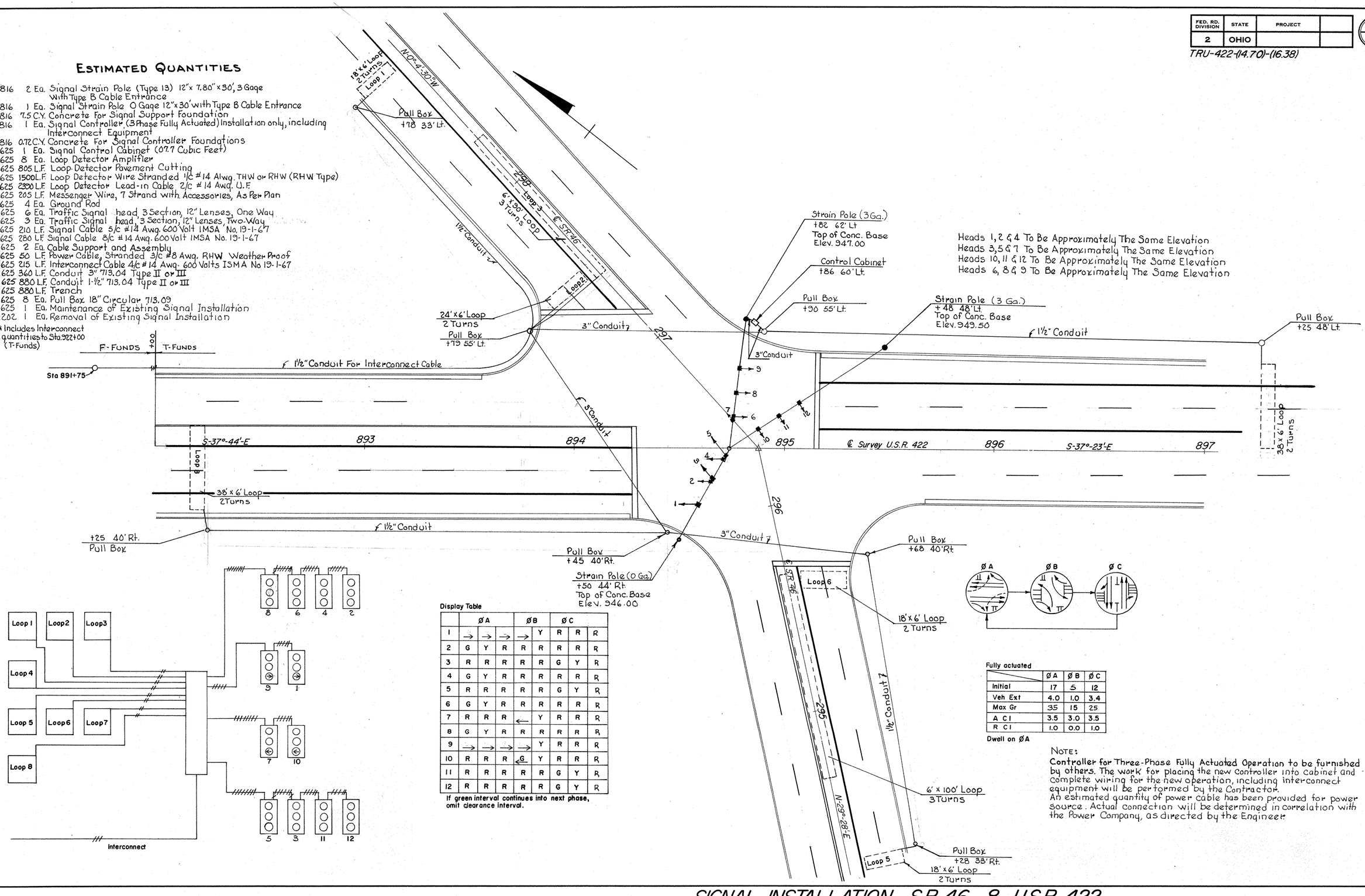
165
216

TRU-422-(14.70)-(16.38)

ESTIMATED QUANTITIES

816 2 Ea. Signal Strain Pole (Type 13) 12"x 7.80" x 30', 3 Gage with Type B Cable Entrance
816 1 Ea. Signal Strain Pole 0 Gage 12"x 30' with Type B Cable Entrance
816 7.5 C.Y. Concrete For Signal Support Foundation
816 1 Ea. Signal Controller, (3 Phase Fully Actuated) Installation only, including Interconnect Equipment
816 0.72 C.Y. Concrete For Signal Controller Foundations
625 1 Ea. Signal Control Cabinet (107.7 Cubic Feet)
625 8 Ea. Loop Detector Amplifier
625 805 L.F. Loop Detector Pavement Cutting
625 1500 L.F. Loop Detector Wire Stranded 1/C #14 Awg. THW or RHW (RHW Type)
625 2350 L.F. Loop Detector Lead-in Cable 2/C #14 Awg. U.F.
625 205 L.F. Messenger Wire, 7 Strand with Accessories, As Per Plan
625 4 Ea. Ground Rod
625 6 Ea. Traffic Signal Head, 3 Section, 12" Lenses, One Way
625 3 Ea. Traffic Signal Head, 3 Section, 12" Lenses, Two-Way
625 210 L.F. Signal Cable 5/C #14 Awg. 600 Volt IMSA No. 19-1-67
625 280 L.F. Signal Cable 8/C #14 Awg. 600 Volt IMSA No. 19-1-67
625 2 Ea. Cable Support and Assembly
625 50 L.F. Power Cable, Stranded 3/C #8 Awg. RHW Weather Proof
* 625 215 L.F. Interconnect Cable 4/C #14 Awg. 600 Volts ISMA No. 19-1-67
625 360 L.F. Conduit 3" 713.04 Type II or III
* 625 880 L.F. Conduit 1-1/2" 713.04 Type II or III
* 625 880 L.F. Trench
625 8 Ea. Pull Box 18" Circular 713.09
625 1 Ea. Maintenance of Existing Signal Installation
202 1 Ea. Removal of Existing Signal Installation

* Includes Interconnect quantities to Sta. 922+00 (T-Funds)



Display Table

	ØA			ØB		ØC		
1	→	→	→	→	Y	R	R	R
2	G	Y	R	R	R	R	R	R
3	R	R	R	R	R	G	Y	R
4	G	Y	R	R	R	R	R	R
5	R	R	R	R	R	G	Y	R
6	G	Y	R	R	R	R	R	R
7	R	R	R	←	Y	R	R	R
8	G	Y	R	R	R	R	R	R
9	→	→	→	→	Y	R	R	R
10	R	R	R	G	Y	R	R	R
11	R	R	R	R	R	G	Y	R
12	R	R	R	R	R	G	Y	R

If green interval continues into next phase, omit clearance interval.

Fully actuated

	ØA	ØB	ØC
Initial	17	5	12
Veh Ext	4.0	1.0	3.4
Max Gr	35	15	25
A C1	3.5	3.0	3.5
R C1	1.0	0.0	1.0

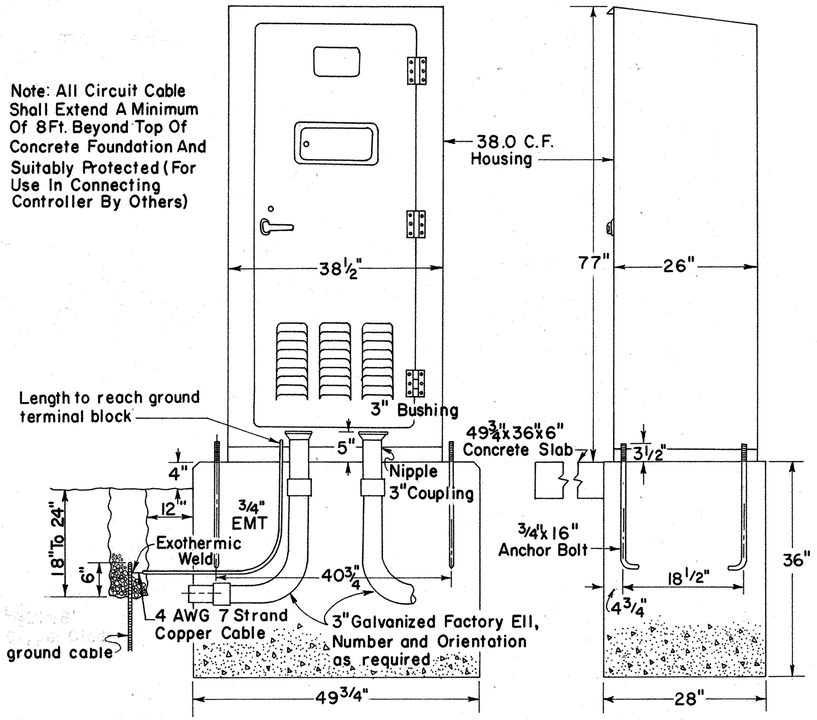
Dwell on ØA

NOTE:
Controller for Three-Phase Fully Actuated Operation to be furnished by others. The work for placing the new controller into cabinet and complete wiring for the new operation, including interconnect equipment will be performed by the Contractor.
An estimated quantity of power cable has been provided for power source. Actual connection will be determined in correlation with the Power Company, as directed by the Engineer.

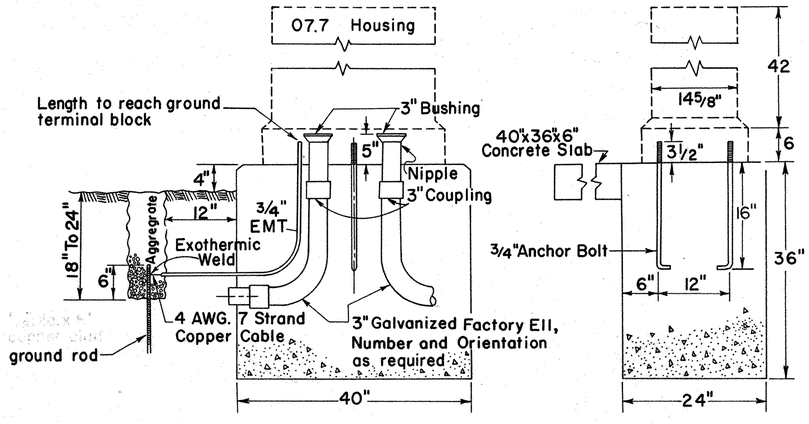
LINE SHEET

	BY	DATE	CHECKED BY	DATE
SURVEYED				
DRAWED	KW	10-18-71		
DESIGNED	J&D	10-16-71		
QUANTITIES	J&D	10-16-71		

SIGNAL INSTALLATION S.R. 46 & U.S.R. 422



CONTROLLER CAB. 38.0 C.F. FNDN., GROUND ROD, AND CONDUIT PLACEMENT DETAILS



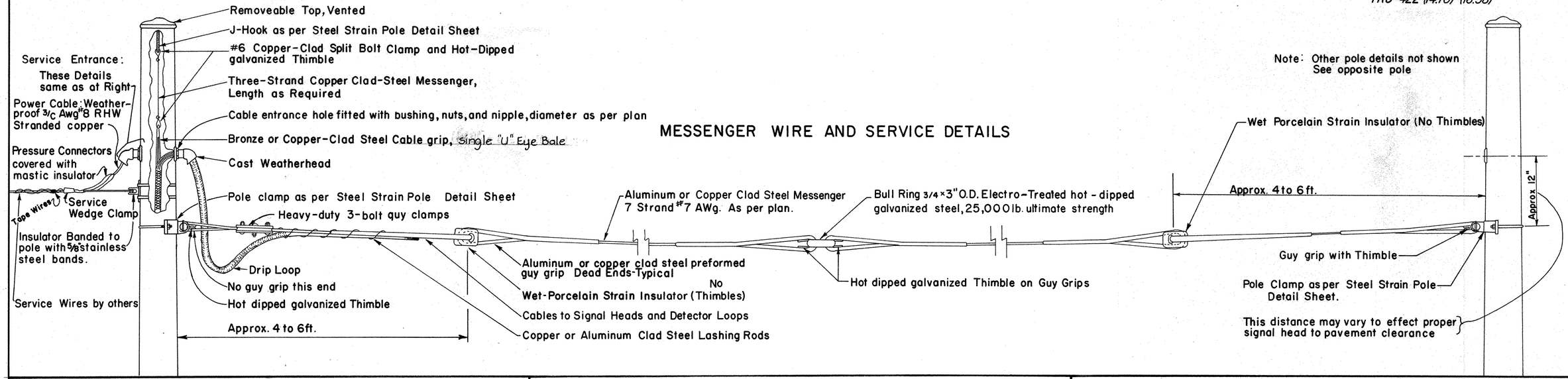
CONTROLLER CAB. 7.7 C.F. FNDN., GROUND ROD, AND CONDUIT PLACEMENT DETAILS

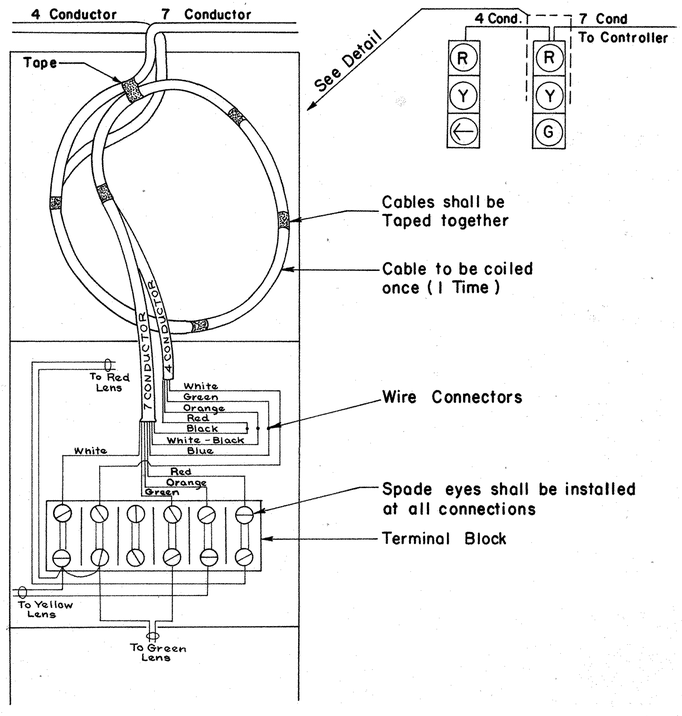
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2	OHIO		

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216

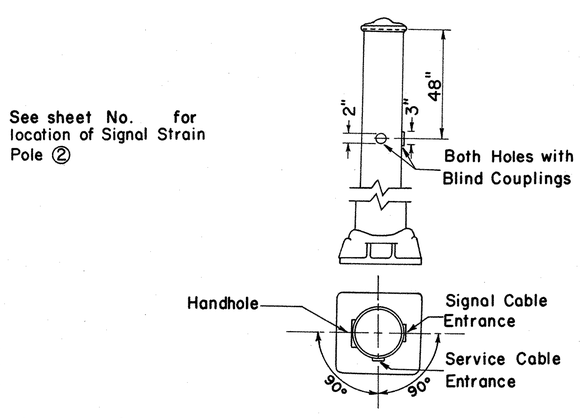
TRU-422-(14.70)-(16.38)

MESSENGER WIRE AND SERVICE DETAILS

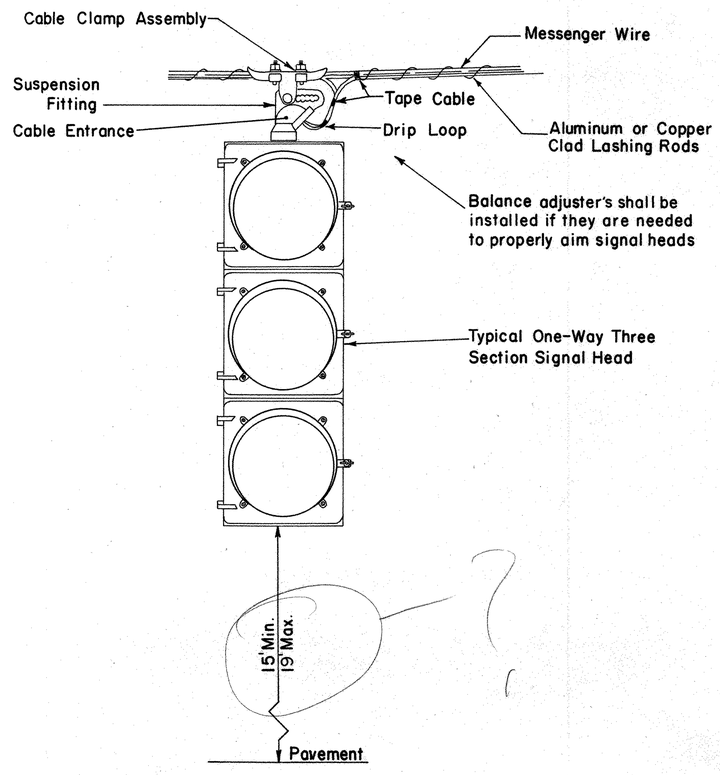




7 CONDUCTOR "IN" 4 CONDUCTOR "OUT" WIRING HOOKUP



CABLE ENTRANCE LOCATION DETAIL FOR SIGNAL STRAIN POLE ② (on sheet no.)



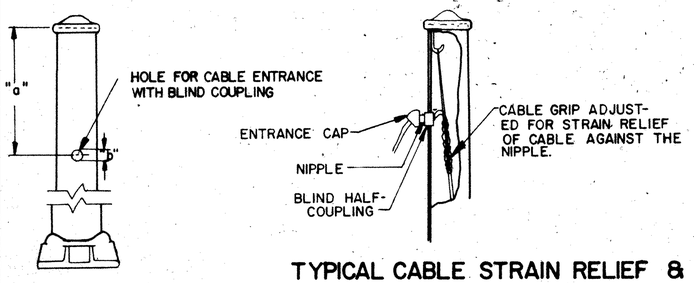
SIGNAL HEAD SUSPENSION DETAIL

TRAFFIC SIGNAL DETAILS

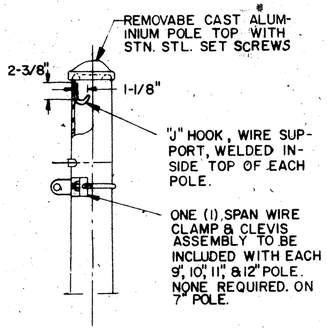
FED. RD. DIVISION	STATE	PROJECT	
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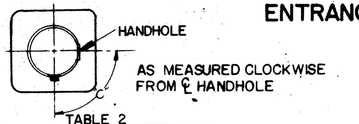
TRU-422-(14.70)-(16.38)



TYPICAL CABLE STRAIN RELIEF & ENTRANCE CAP DETAILS

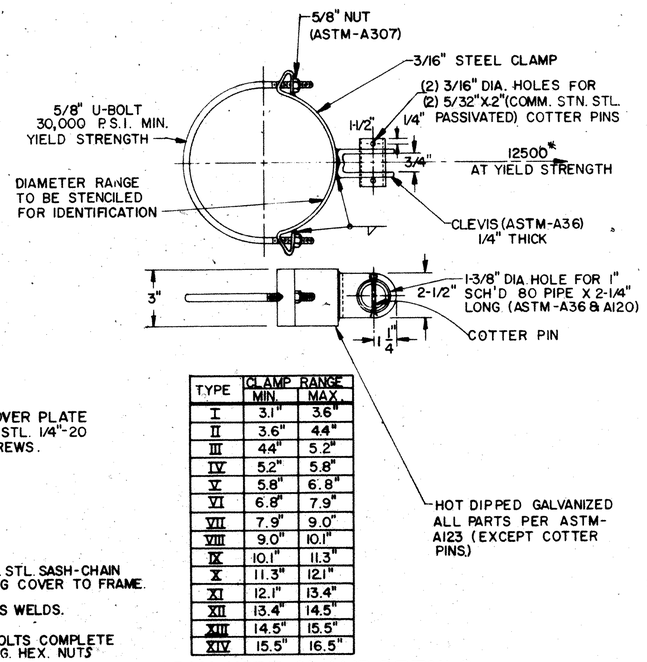


POLE TOP DETAILS



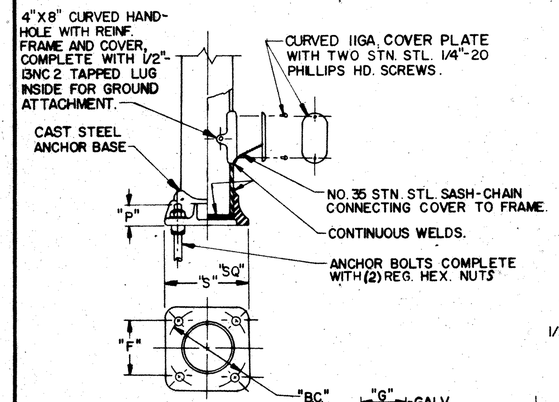
CONFIG.	"a"	"b"	"c"
A	30"	2"	90°
B	30"	2"	180°
C	30"	2"	270°
D	48"	2"	90°
E	48"	2"	180°
F	48"	2"	270°
G	NO HOLE REQUIRED		

CABLE ENTRANCE LOCATION DETAIL



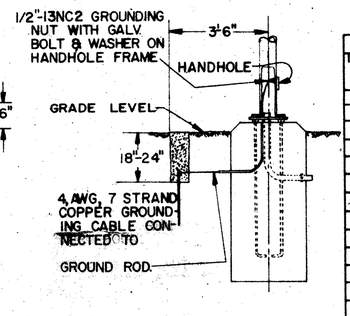
TYPE	CLAMP RANGE MIN	CLAMP RANGE MAX
I	3.1"	3.6"
II	3.6"	4.4"
III	4.4"	5.2"
IV	5.2"	5.8"
V	5.8"	6.8"
VI	6.8"	7.9"
VII	7.9"	9.0"
VIII	9.0"	10.1"
IX	10.1"	11.3"
X	11.3"	12.1"
XI	12.1"	13.4"
XII	13.4"	14.5"
XIII	14.5"	15.5"
XIV	15.5"	16.5"

SPAN WIRE CLAMP DETAILS

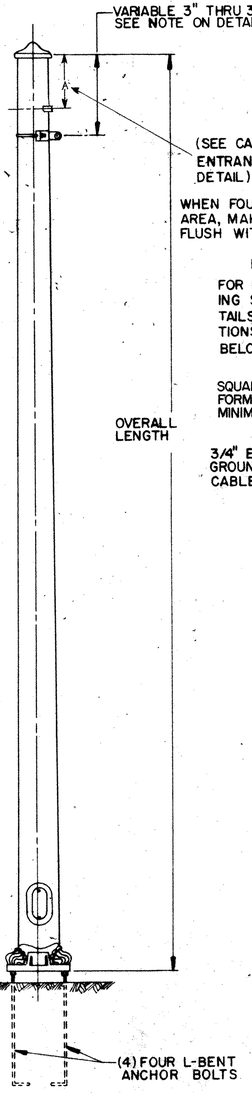


POLE DIA.	ANCHOR BASE DATA "BC."	"F"	"S"	"P"	ANCHOR BOLT DATA SIZE	"L"	"T"	"G"
7"	10"	7 1/16	10 1/2"	2 1/4"	H/4" X 48"	42"	8"	10"
9"	12-1/2"	8-7/8"	12-3/4"	3"	H/2" X 60"	54"	9"	11"
10"	13-1/2"	9-9/16"	14-1/8"	3-3/8"	H/2" X 60"	54"	9"	11"
11"	15"	10-5/8"	15-5/8"	3-5/8"	1-3/4" X 90"	84"	9"	11"
12"	16"	11-5/16"	17"	4"	1-3/4" X 90"	84"	9"	11"

TYPICAL HANDHOLE, ANCHOR BASE & ANCHOR BOLT DETAILS



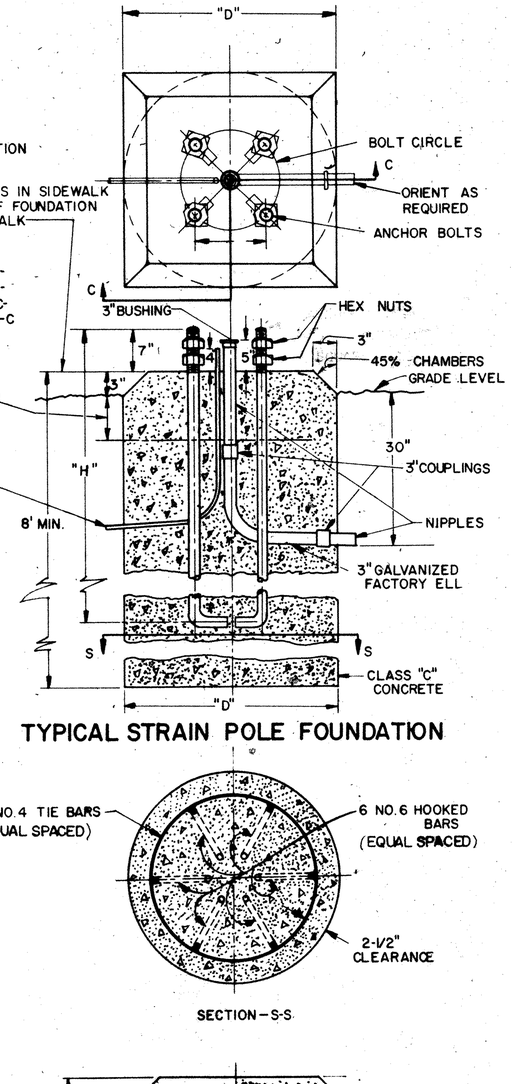
TYPICAL GROUND ROD DETAIL



STEEL STRAIN POLE

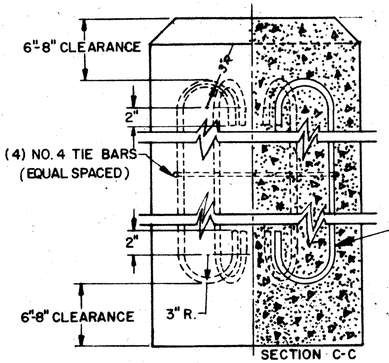
TYPE	BASE DIA.	TOP DIA.	OVERALL LENGTH	WALL THICKNESS	DESIGN DATA FOR TRANSVERSE LOAD AT 18" DOWN FROM TOP ELAS. DEFL. RATE	ULT. AT YIELD STRENGTH	"H"	"D"
1	7.0"	4.20"	20.0'	(3 GA.) .250"	.59"/100#	2135#	42"	24"
2	9.0"	6.36"	26.0'		.64"/100#	2730#	54"	24"
3	10.0"	6.36"			.44"/100#	3400#	54"	24"
4	11.0"	7.36"			.32"/100#	4140#	84"	30"
5	12.0"	8.36"			.24"/100#	4960#	84"	36"
6	9.0"	5.08"	28.0'		.84"/100#	2520#	54"	24"
7	10.0"	6.08"			.54"/100#	3140#	54"	24"
8	11.0"	7.08"			.41"/100#	3850#	84"	30"
9	12.0"	8.08"			.31"/100#	4590#	84"	36"
10	9.0"	4.80"	30.0'		.110"/100#	2350#	54"	24"
11	10.0	5.80"			.74"/100#	2920#	54"	24"
12	11.0"	6.80"			.53"/100#	3560#	84"	30"
13	12.0	7.80"			.39"/100#	4260#	84"	36"

STRAIN POLE TYPES



TYPICAL STRAIN POLE FOUNDATION

SECTION - S-S



SECTION C-C

TYPICAL REINFORCING STEEL SECTIONS

NOTES:

MATERIAL SPECIFICATIONS

1. TAPERED TUBES (S.A.E.-1020 STEEL PROCESSED TO MINIMUM YIELD STRESS OF 55,000 P.S.I.
2. CAST ANCHOR BASE & HANDHOLE FRAME - ASTM-A27-GRADE 65-35.
3. HANDHOLE COVER PLATE - 11GA. STEEL SAE-1015
4. CAST ALUMINUM POLE TOP - ALUMINUM ALLOY 43
5. SPAN WIRE CLAMP - LOW ALLOY, HIGH STRENGTH STEEL ASTM-A242 - OR 375, LOAD PRODUCING DISTORTION 12,500 LBS. DIRECT TENSION
6. ALL BOLTS & NUTS LESS THAN 5/8" DIA. PASSIVATED STAINLESS STEEL AISI-300 SERIES - COMMERCIAL GRADE.
7. ALL OTHER NUTS & BOLTS 5/8" DIA. & OVER - ASTM-A307 AND GALVANIZED IN ACCORDANCE WITH-ASTM-A153
8. ANCHOR BASE & U-BOLTS - HIGH STRENGTH STEEL - MINIMUM YIELD STRESS 55,000 LBS. SQ. IN. - MIN. ULTIMATE 90,000 P.S.I.
9. WELDING ROD - ASTM-A233 - CLASS E60XX OR 70XX.
10. GALVANIZING - WHEN SPECIFIED ASTM-A123.

TRAFFIC SIGNAL POLE FOUNDATIONS

THE CONTRACTOR SHALL STAKE THE LONGITUDINAL AND LATERAL LOCATION, AND THE ELEVATION OF THE TOP OF EACH FOUNDATION SUBJECT TO THE APPROVAL OF THE ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER ELEVATION, OFFSET, AND LEVEL OF EACH FOUNDATION. THE FOUNDATION LOCATIONS MAY BE CHANGED AS DIRECTED BY THE ENGINEER, IN CASE OF SLOPE OR SUBSURFACE DIFFICULTIES.

EXCAVATION SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF ITEM 503. EXCAVATION SHALL BE TO THE DIMENSIONS SHOWN ON THE PLANS, AND SHALL BE PERFORMED BY MEANS OF AN EARTH AUGER OF THE SPECIFIED DIA. UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

WHERE SUBSURFACE OBSTRUCTIONS ARE ENCOUNTERED, THE ENGINEER MAY REQUIRE THE CONTRACTOR TO REMOVE THE OBSTRUCTION OR TO REPLACE THE EXCAVATED MATERIAL AND RELOCATE THE FOUNDATION.

IF CAVING OF THE EXCAVATION OCCURS, THE CONTRACTOR SHALL EXCAVATE THE SPECIFIED DEPTH MAINTAINING THE THE SIDES AS NEARLY VERTICAL AS POSSIBLE. NO PAYMENT SHALL BE MADE FOR ANY EXCAVTION, CONCRETE, OR REINFORCING STEEL USED IN EXCESS OF THE PLAN QUANTITES.

CONCRETE, CLASS C, SHALL BE PLACED IN ACCORDANCE WITH THE REQUIREMENTS OF ITEM 511, AND SHALL BE PLACED AGAINST UNDISTURBED SOIL OR COMPACTED EMBANKMENT. STEEL REINFORCEMENT BARS, WHERE REQUIRED, SHALL BE POSITIONED AS SHOWN ON THE PLANS AND PLACED IN ACCORDANCE WITH ITEM 509.

CYLINDRICAL ANCHOR BASE TYPE FOUNDATIONS FOR TRAFFIC SIGNAL POLES SHALL HAVE ANCHOR BOLTS AND CONDUIT ACCURATELY HELD IN POSITION WITH A TEMPLET WHILE CONCRETE IS PLACED. FORMS SHALL BE USED FOR THE UPPER PORTIONS OF ALL FOUNDATIONS AND NO BACKFILLING SHALL BE PERMITTED FROM THE BOTTOM TO SIX INCHES BELOW THE GRADE LEVEL. NO GROUTING OF CONCRETE SHALL BE PERMITTED BETWEEN THE FOUNDATION TOP AND THE POLE BASE.

TRAFFIC SIGNAL POLE

WHERE A WIRE ENTRANCE IS REQUIRED, THE SERVICE ENTRANCE HEAD SHALL BE LOCATED APPROXIMATELY 12" BELOW SPAN WIRE CLAMP.

GROUND ROD

GROUND ROD SHALL BE IN ACCORDANCE WITH TYPICAL GROUND ROD DETAIL AND TESTED IN ACCORDANCE WITH 625.22 "CONSTRUCTION AND MATERIAL SPECIFICATIONS."

BUREAU OF TRAFFIC

OHIO DEPARTMENT OF HIGHWAYS

STEEL STRAIN POLE & FOUNDATION DETAILS

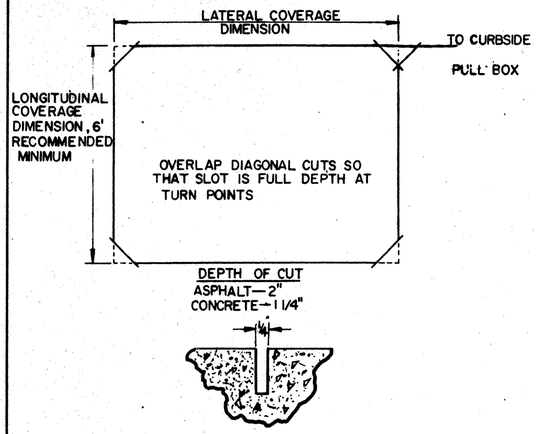
APPROVED _____

ENGINEER OF TRAFFIC

FED. RD DIVISION	STATE	PROJECT	
2	OHIO		

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SOLID LINES SHOW SAW CUTS USED TO ACCOMODATE ROADWAY WIRE LOOP. DOTTED LINES SHOW UNUSED SAW CUTS.

FIGURE 1
TYPICAL LOOP SLOT CONSTRUCTION

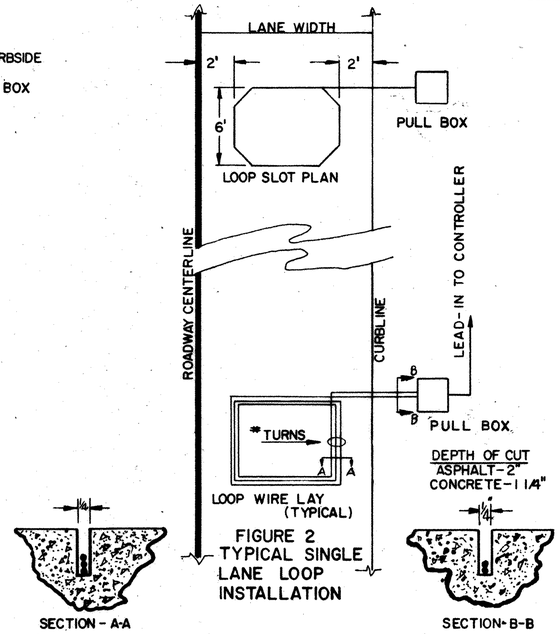


FIGURE 2
TYPICAL SINGLE LANE LOOP INSTALLATION

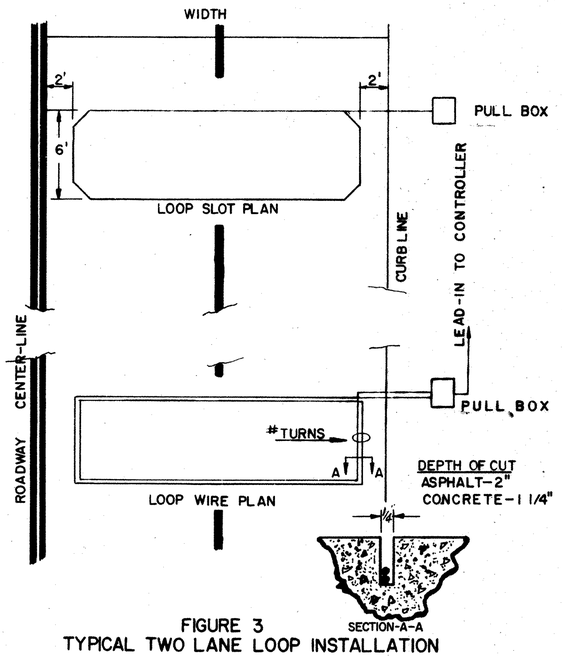


FIGURE 3
TYPICAL TWO LANE LOOP INSTALLATION

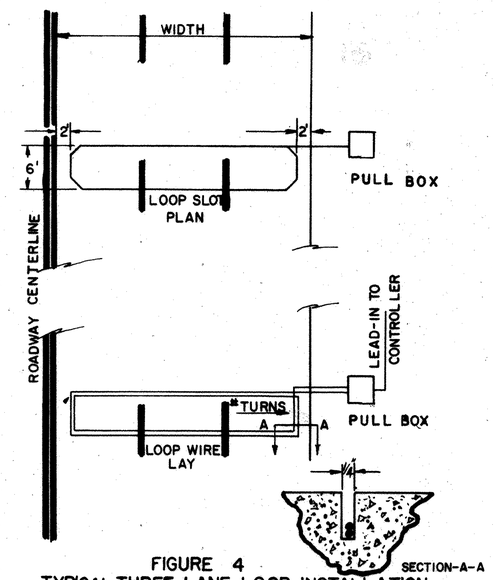


FIGURE 4
TYPICAL THREE LANE LOOP INSTALLATION

TABLE-1 ROADWAY LOOP CONSTRUCTION

LOOP PERIMETER	NO. OF TURNS
UP TO 40 FEET	3
40 TO 160 FEET	2
160 AND UP	1

MAINTAIN 6' MINIMUM DIMENSION IN DIRECTION OF TRAVEL.

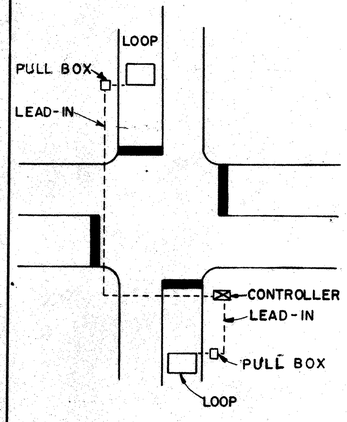
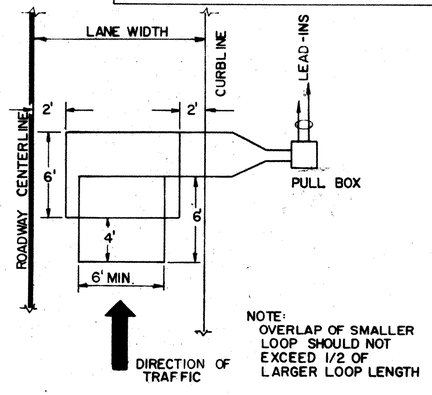


FIGURE 5
TYPICAL LEAD-IN DETAIL



NOTE:
OVERLAP OF SMALLER LOOP SHOULD NOT EXCEED 1/2 OF LARGER LOOP LENGTH

FIGURE 6
TYPICAL DIRECTIONAL DETECTION LOOP INSTALLATION (OVERLAPPED)

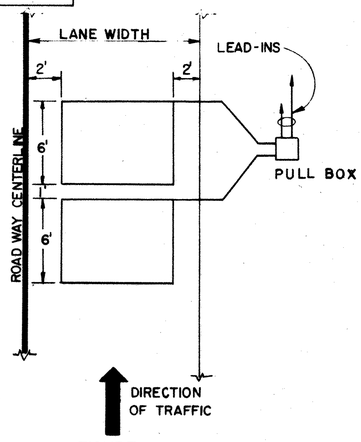
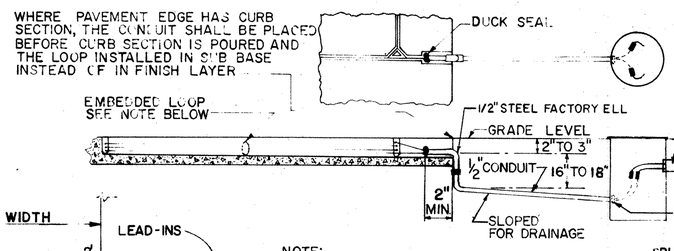


FIGURE 7
TYPICAL DIRECTIONAL DETECTION LOOP INSTALLATION (ADJACENT)



NOTE:
IT IS EXTREMELY IMPORTANT THAT THE SAWED SLOT BE THOROUGHLY CLEANED AND COMPLETELY DRY BEFORE APPLYING SLOT SEALER

SPLICE TO LEAD IN CABLE BY SOLDERING AND APPLYING WATERPROOF SPLICING KIT

FIGURE 8
INTERFACE BETWEEN EMBEDDED LOOP AND ROAD SIDE PULL BOX

ROADWAY LOOP INSTALLATION

THE ROADWAY WIRE LOOP IS POSITIONED IN THE PAVEMENT IN A SAWED SLOT THAT OUTLINES THE REQUIRED DETECTION AREA. THE SLOT SHOULD BE 1/4" WIDE AND FROM 1 1/4" TO 2" DEEP. IN THE IDEAL INSTALLATION, RIGHT ANGLE TURNS SHOULD BE CHAMFERED TO PREVENT SHARP BENDS OF WIRE (SEE FIG. 1). THE SLOT MUST BE BRUSHED AND BLOWN CLEAN OF ALL LOOSE MATERIAL. THE LOOP WIRE MUST BE CAREFULLY PUSHED INTO THE SLOT WITH A BLUNT STICK TO AVOID DAMAGING ITS INSULATION. RESISTANCE OF THE WIRE LOOP TO GROUND SHOULD BE CHECKED AFTER THE WIRE IS PLACED IN THE SLOT, BOTH BEFORE AND AFTER THE SLOT IS SEALED. THIS IS ESPECIALLY IMPORTANT IF THE ROADWAY WIRE LOOP IS SPLICED TO LEAD-IN CABLE AT CURBSIDE JUNCTION BOX; A RESISTANCE OF LESS THAN 10 MEGOHMS INDICATES A FAULTY SPLICE OR WIRE INSTALLATION WHICH MUST BE CORRECTED BEFORE THE ROADWAY LOOP IS SEALED IN PLACE.

SEALING

A FLEXIBLE EMBEDDING SEALANT NO. 491-H.P. MANUFACTURED BY EUCLID CHEMICAL CO. OF CLEVELAND, OHIO OR SP-10 MANUFACTURED BY BAIRD DYNAMICS COMPANY OF BRIDGEPORT, CONNECTICUT OR EQUIVALENT. SHALL BE MIXED ACCORDING TO DIRECTIONS, POURED INTO THE SAW SLOTS AND LEFT UNDISTURBED UNTIL CURED INTO A SOLID MASS.

DEPTH OF CUT
ASPHALT — 2"
CONCRETE — 1 1/4"

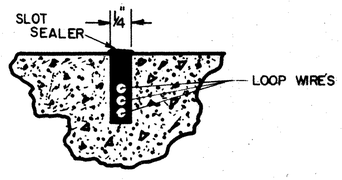


FIGURE 9
TYPICAL SLOT SEALING DETAIL

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OHIO DEPARTMENT OF HIGHWAYS

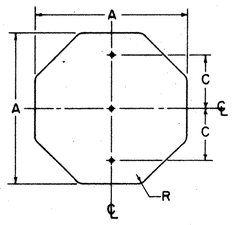
EMBEDDED VEHICLE DETECTOR LOOP DETAILS

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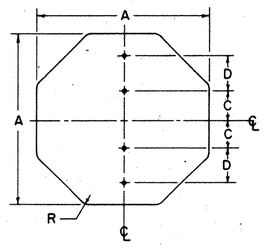
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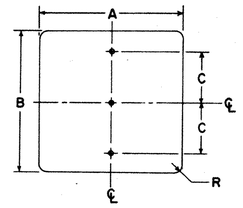
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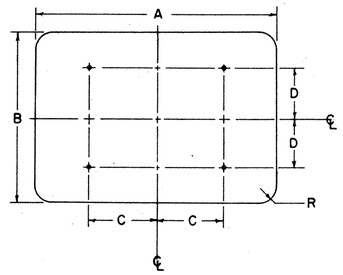
A	C	R	GAUGE
30	8	1 1/2	.080
36	8	1 1/2	.080



A	C	D	R	GAUGE
48	8	10	1 1/2	.100

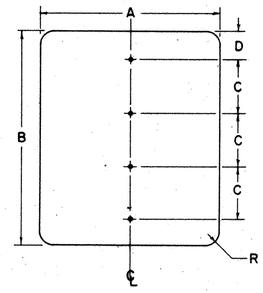


A	B	C	R	GAUGE
24	30	8	1 1/2	.063
24	48	15	1 1/2	.100
30	36	11	1 1/2	.080
30	42	12	1 1/2	.080
36	36	11	1 1/2	.080
36	42	15	1 1/2	.080
36	48	15	1 1/2	.080
48	24	10	3	.100
48	36	13	3	.100

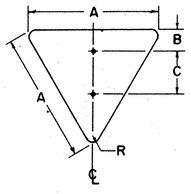


A	B	C	D	R	GAUGE
48	48	22	16	3	.100
48	60	22	22	3	.100

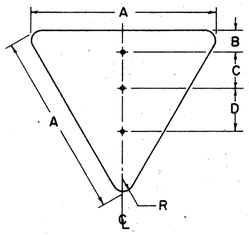
SPEED LIMIT SIGNS ON TWO [redacted]



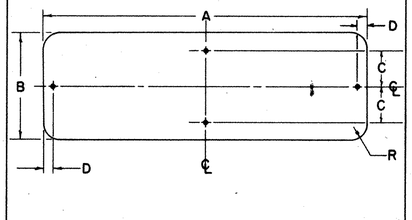
A	B	C	D	R	GAUGE
48	48	12	6	3	.100
48	60	15	7 1/2	3	.100



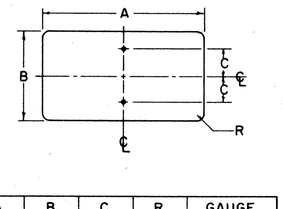
A	B	C	R	GAUGE
36	3	16	2 1/2	.080



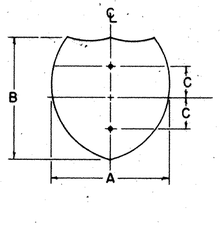
A	B	C	D	R	GAUGE
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60	5	10	15	4	.100



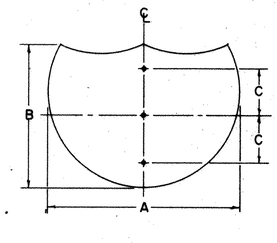
A	B	C	D	R	GAUGE
36	12	4	1	1 1/2	.080
72	12	—	16	1 1/2	.100
60	[redacted]	—	13	1 1/2	.100



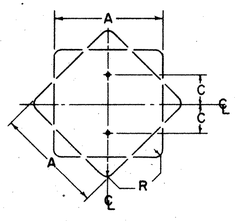
A	B	C	R	GAUGE
12	6	1 1/2	1 1/2	.063
20	15	6	1 1/2	.063
24	12	4 1/2	1 1/2	.063
24	18	7 1/2	1 1/2	.063
8	26	8	1	.063
36	18	7 1/2	1 1/2	.080



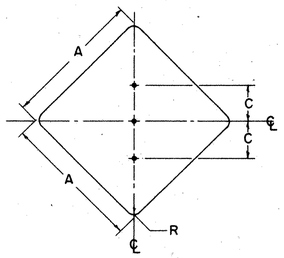
A	B	C	GAUGE
24	24	8	.063
30	24	8	.080



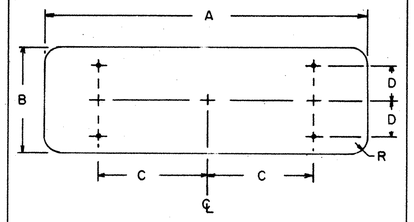
A	B	C	GAUGE
36	36	11	.080
48	36	11	.100



A	C	R	GAUGE
18	7 1/2	1 1/2	.063
24	8	1 1/2	.063
30	8	1 1/2	.080

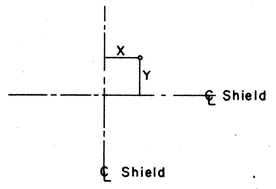


A	C	R	GAUGE
36	12	1 1/2	.080
48	14	3	.100



A	B	C	D	R	GAUGE
72	18	20	6	1 1/2	.100
72	24	20	8	1 1/2	.100
60	30	17	10	1 1/2	.100
96	18	27	6	1 1/2	.100

Location of holes on "Demountable Shields" (attached to guide signs)



SIZE	NO. HOLES	X	Y
(26) 24X24	4	7	7
30X24	4	8	8
(39) 36X36	4	10	10
		0	10
48X36	6	15	10

For notes on fastening see drawing for miscellaneous "Signing Items" sheet.

NOTES:

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SHOWN.

MATERIAL

FLAT SIGN BLANKS SHALL BE FURNISHED IN ALUMINUM ALLOY 6061-T6, (ASTM-B209, GSIIA-T6) WITH MILL FINISH.

BOLT HOLES

THE BOLT HOLES SHALL BE 3/8" IN DIAMETER, AND MAY BE DRILLED, BLANKED OR PUNCHED TO FINISHED SIZE.

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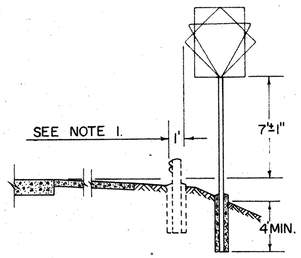
SIGN BLANK DETAILS

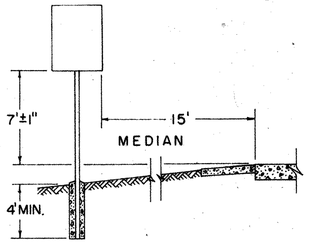
SBD

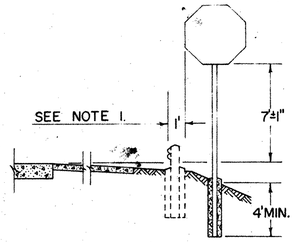
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5-10-68
10-1-68
5-27-69
6-18-69

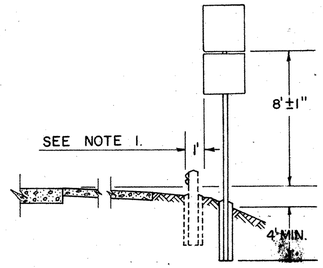
APPROVED_____
ENGINEER OF TRAFFIC

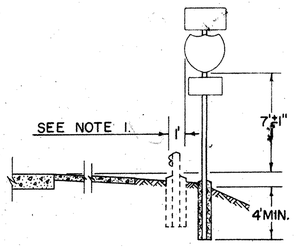
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2	OHIO			

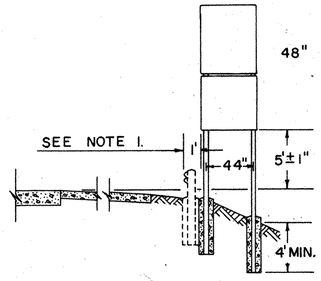


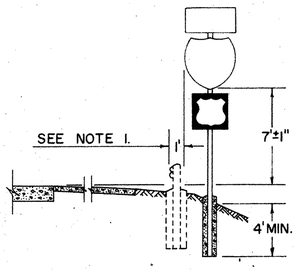


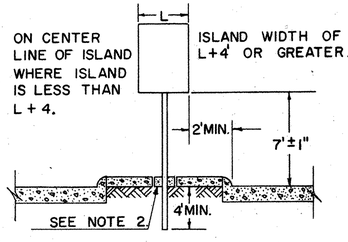


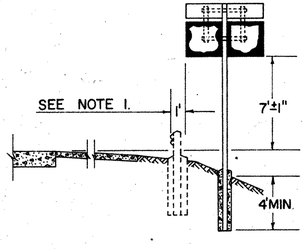


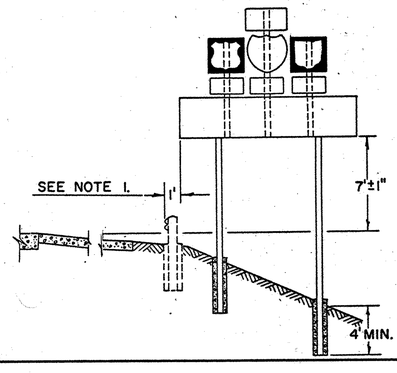


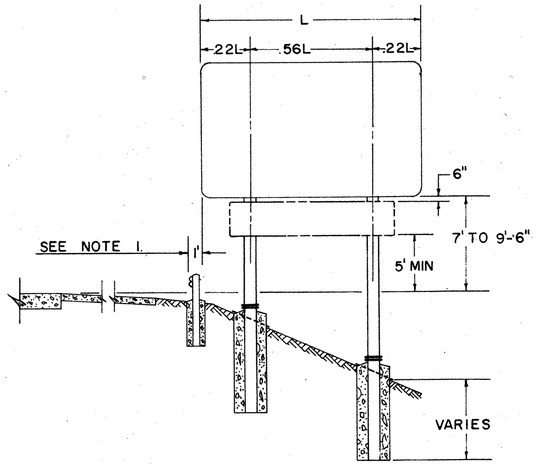


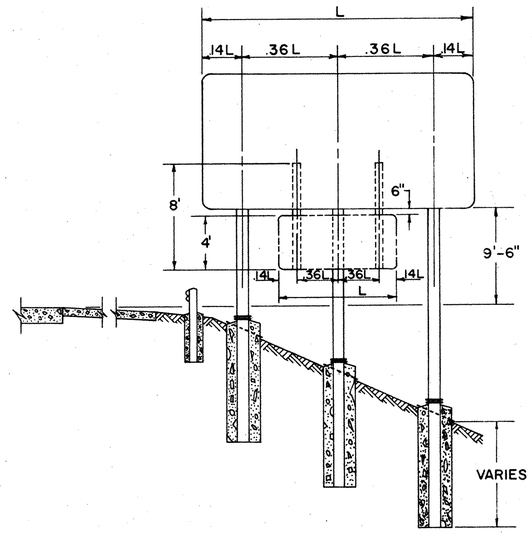


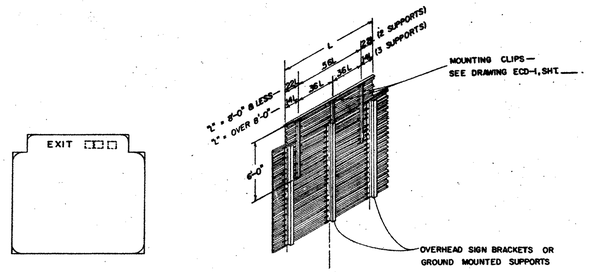




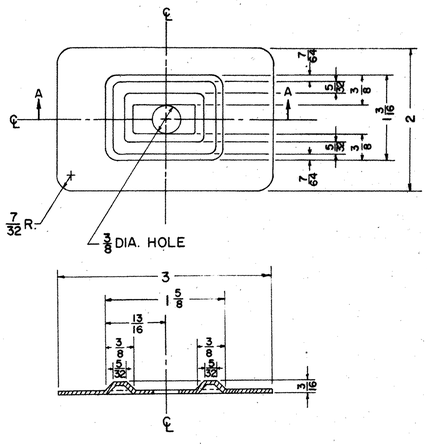








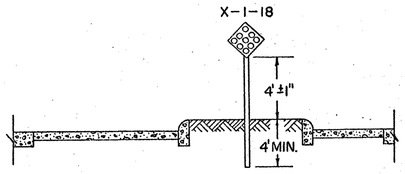
"EXIT" SIGN ATTACHMENT DETAIL



SECTION AA

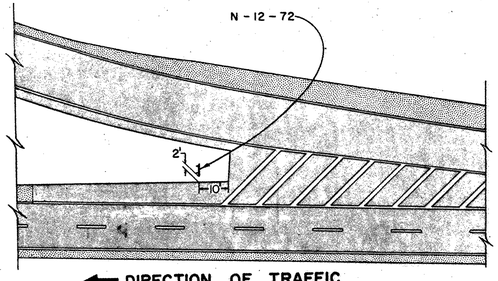
NOTE:
THE PLATE IS SYMMETRICAL ABOUT EITHER CENTERLINE.
METAL SHALL BE 16 GAUGE STEEL.
ALL DIMENSIONS ARE IN INCHES.

BEARING PLATE DETAIL



SIGN SUPPORT SPACING

L=FT	2 SUPPORTS		3 SUPPORTS		L=FT	2 SUPPORTS		3 SUPPORTS	
	.22	.56	.14	.36		.22	.56	.14	.36
5.0	1.10	2.80	0.70	1.80	17.0	3.74	9.52	2.38	6.12
6.0	1.32	3.36	0.84	2.16	18.0	3.96	10.08	2.52	6.48
7.0	1.54	3.92	0.98	2.52	19.0	4.18	10.64	2.66	6.84
8.0	1.76	4.48	1.12	2.88	20.0			2.80	7.20
9.0	1.98	5.04	1.26	3.24	21.0			2.94	7.56
10.0	2.20	5.60	1.40	3.60	22.0			3.08	7.92
11.0	2.42	6.16	1.54	3.96	23.0			3.22	8.28
12.0	2.64	6.72	1.68	4.32	24.0			3.36	8.64
13.0	2.86	7.28	1.82	4.68	25.0			3.50	9.00
14.0	3.08	7.84	1.96	5.04	26.0			3.64	9.36
15.0	3.30	8.40	2.10	5.40	27.0			3.78	9.72
16.0	3.52	8.96	2.24	5.76	28.0			3.92	10.08



DIRECTION OF TRAFFIC

NOTES

1. THE NEAR EDGE OF ALL MAIN LINE SIGNS, EXCEPT GORE INSTALLATIONS, SHALL BE LOCATED ONE FOOT (1') BACK OF GUARD RAIL FACE. THIS DIMENSION SHALL BE DETERMINED BY ROADWAY TYPICAL SECTION & USED WHETHER OR NOT GUARD RAIL IS PRESENT.

ON RAMPS THE NEAR EDGE OF SIGNS SHALL BE LOCATED ONE FOOT (1') BACK OF GUARD RAIL FACE. THIS DIMENSION WILL BE DETERMINED AND USED AS FOR MAIN LINE ABOVE.

ON APPROACHES THE NEAR EDGE OF SIGNS SHALL BE

(A) ONE FOOT (1') BEHIND EXISTING GUARD RAIL

(B) TWO FEET (2') FROM THE EDGE OF PAVED OR TRAVELED SHOULDER WITH A MINIMUM OF 6' FROM EDGE OF ROADWAY PAVEMENT.

2. POSTS PLACED IN CONCRETE MEDIANS SHALL BE INSTALLED BY DRIVING THROUGH A 6" SLEEVE OR CORE DRILLED HOLE. THE HOLE SHALL BE FILLED WITH ASPHALT OR PORTLAND CONCRETE AFTER THE POST IS IN THE PROPER POSITION.

3. HORIZONTAL BACK BRACING SHALL ALWAYS BE MOUNTED ON THE FRONT FLANGE OF THE SUPPORT EXCEPT WHERE SIGNS ARE MOUNTED BACK TO BACK. BACK BRACING SHALL NEVER EXTEND ABOVE TOP EDGE OF UPPERMOST SIGN PLATE AND SHALL BE ATTACHED TO SUPPORTS USING 5/16" GALVANIZED STEEL BOLTS.

4. SCREWS, NUTS, AND WASHERS FOR SIGN ERECTION SHALL BE ALUMINUM EXCEPT AS NOTED ABOVE. 5/16" TRUSS HEAD SLOTTED MACHINE SCREWS WITH HEX. NUTS PLAIN AND LOCKWASHERS SHALL BE USED. PLAIN WASHERS SHALL BE 5/16" "WIDE", USED ON SIGN FACE ONLY.

5. SIGN INSTALLATIONS SHALL BE PLACED SO THAT SUPPORTS ARE NOT PLACED IN DRAINAGE DITCHES.

6. HORIZONTAL CLEARANCES SHOWN PERTAIN TO NON-CURBED SECTIONS. SECTIONS WITH UNMOUNTABLE CURB SHALL HAVE A HORIZONTAL CLEARANCE OF 2'-0" MINIMUM FROM THE CURB FACE TO THE SIGN EDGE.

7. VERTICAL AND HORIZONTAL CLEARANCE BETWEEN SIGNS ON ONE ASSEMBLY SHALL BE A MAXIMUM OF 2" AND A MINIMUM OF 1".

8. GALVANIZED STEEL BEARING PLATES SHALL BE INCLUDED BETWEEN ALL SHEET ALUMINUM SIGNS ATTACHED TO VERTICAL SUPPORTS AT EACH SIGN BOLT LOCATION.

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TYPICAL PLACEMENT OF SIGNS

TPS-1

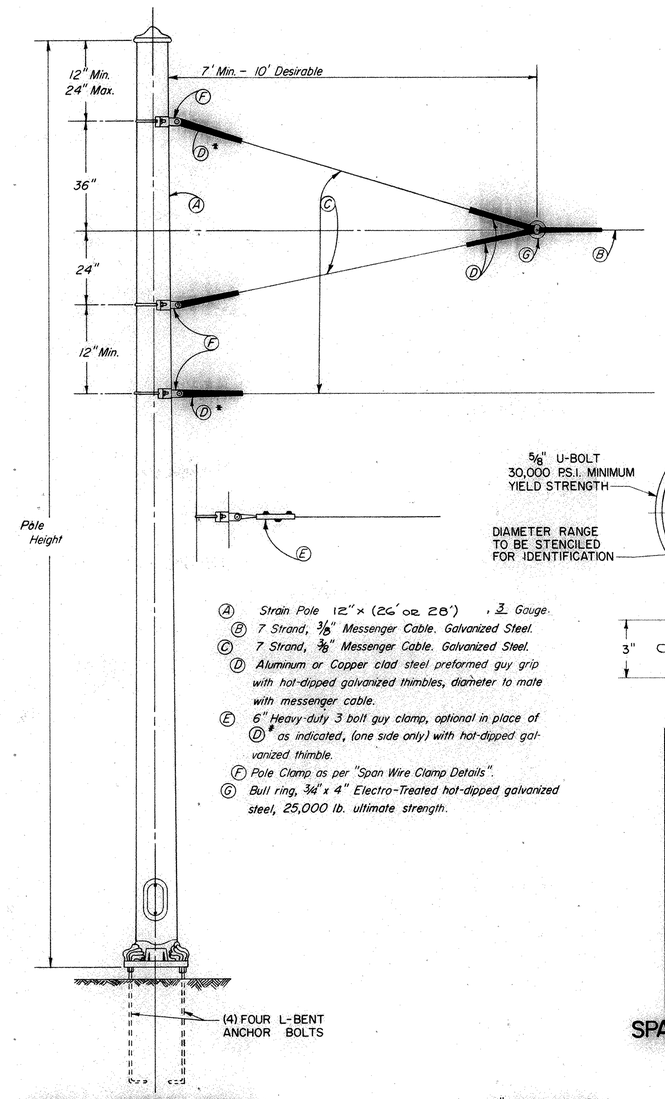
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ENGINEER OF TRAFFIC

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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216

TRU-422-(14.70)-(16.38)

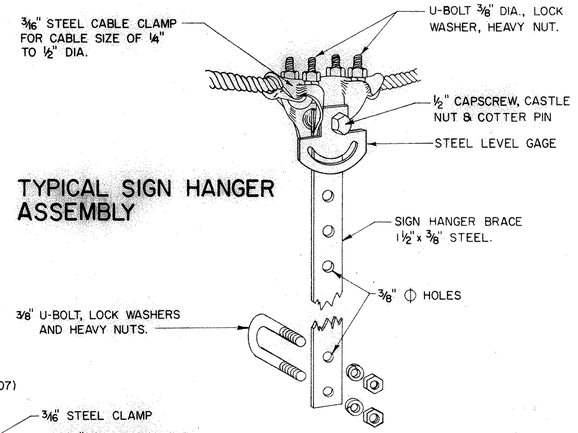


(A) Strain Pole 12" x (26' or 28') , 3 Gauge.
(B) 7 Strand, 3/8" Messenger Cable. Galvanized Steel.
(C) 7 Strand, 3/8" Messenger Cable. Galvanized Steel.
(D) Aluminum or Copper clad steel preformed guy grip with hot-dipped galvanized thimbles, diameter to mate with messenger cable.
(E) 6" Heavy-duty 3 bolt guy clamp, optional in place of (D)* as indicated, (one side only) with hot-dipped galvanized thimble.
(F) Pole Clamp as per "Span Wire Clamp Details".
(G) Bull ring, 3/4" x 4" Electro-Treated hot-dipped galvanized steel, 25,000 lb. ultimate strength.

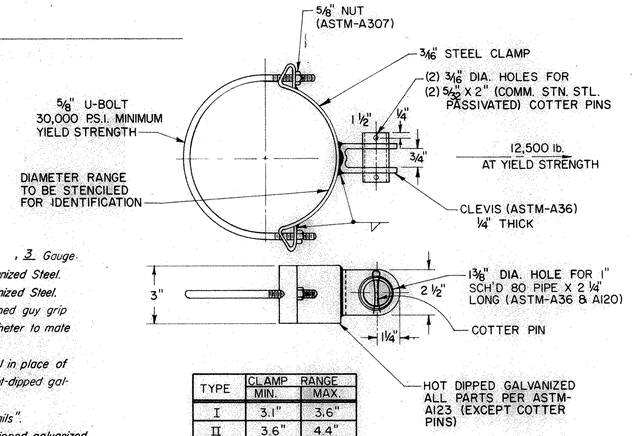
STEEL STRAIN POLE

TYPE	BASE DIA.	TOP DIA.	OVERALL LENGTH	WALL THICKNESS	DESIGN DATA FOR TRANSVERSE LOAD AT 18" DOWN FROM TOP		"H"	"D"
					ELAST. DEFL. RATE	LOAD AT YIELD STRENGTH		
1	7.0"	4.20"	20.0'	3 GA. (.250")	.59"/100 lb.	2135 lb.	42"	24"
2	9.0"	5.36"	26.0'		.64"/100 lb.	2730 lb.	54"	24"
3	10.0"	6.36"			.44"/100 lb.	3400 lb.	54"	24"
4	11.0"	7.36"			.32"/100 lb.	4140 lb.	84"	30"
5	12.0"	8.36"			.24"/100 lb.	4960 lb.	84"	36"
6	9.0"	5.08"	28.0'		.84"/100 lb.	2520 lb.	54"	24"
7	10.0"	6.08"			.54"/100 lb.	3140 lb.	54"	24"
8	11.0"	7.08"			.41"/100 lb.	3830 lb.	84"	30"
9	12.0"	8.08"			.31"/100 lb.	4590 lb.	84"	36"
10	9.0"	4.80"	30.0'		1.10"/100 lb.	2350 lb.	54"	24"
11	10.0"	5.80"			.74"/100 lb.	2920 lb.	54"	24"
12	11.0"	6.80"			.53"/100 lb.	3560 lb.	84"	30"
13	12.0"	7.80			.39"/100 lb.	4260 lb.	84"	36"

STRAIN POLE TYPES

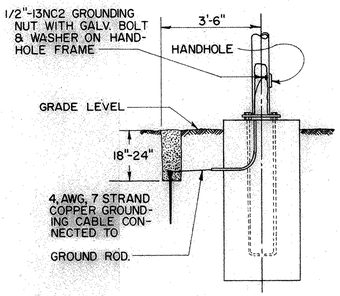


TYPICAL SIGN HANGER ASSEMBLY

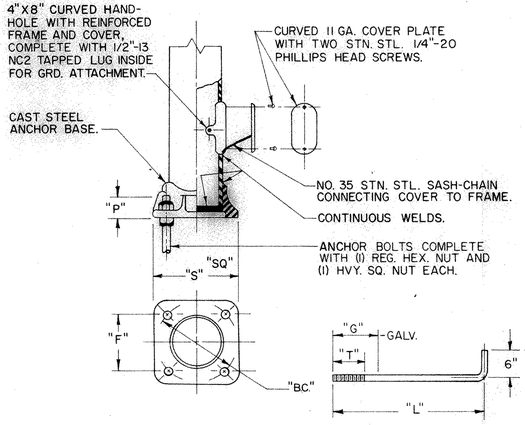


TYPE	CLAMP RANGE MIN.	MAX.
I	3.1"	3.6"
II	3.6"	4.4"
III	4.4"	5.2"
IV	5.2"	5.8"
V	5.8"	6.8"
VI	6.8"	7.9"
VII	7.9"	9.0"
VIII	9.0"	10.1"
IX	10.1"	11.3"
X	11.3"	12.1"
XI	12.1	13.4"
XII	13.4"	14.5"
XIII	14.5"	15.5"
XIV	15.5"	16.5"

SPAN WIRE CLAMP DETAILS



TYPICAL GROUND ROD DETAIL



ANCHOR BASE DATA					ANCHOR BOLT DATA			
POLE DIA.	"B.C."	"F"	"S"	"P"	SIZE	"L"	"T"	"G"
7"	10"	7-1/16"	10-1/2"	2-1/4"	1-1/4" x 48"	42"	8"	10"
9"	12-1/2"	8-7/8"	12-3/4"	3"	1-1/2" x 60"	54"	9"	11"
10"	13-1/2"	9-9/16"	14-1/8"	3-3/8"	1-1/2" x 60"	54"	9"	11"
11"	15"	10-5/8"	15-5/8"	3-5/8"	1-3/4" x 90"	84"	9"	11"
12"	16"	11-5/16"	17"	4"	1-3/4" x 90"	84"	9"	11"

TYPICAL HANDHOLE, ANCHOR BASE & ANCHOR BOLT DETAILS

NOTES:

MATERIAL SPECIFICATIONS

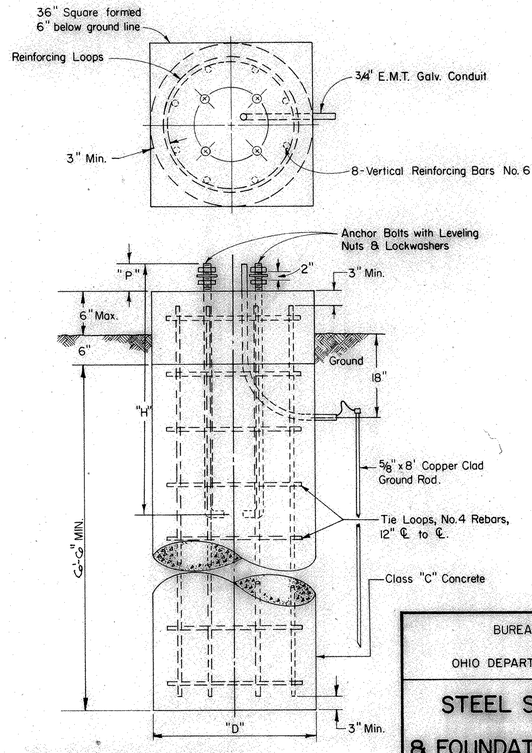
1. Tapered Tubes - S.A.E.-1020 STEEL PROCESSED TO MINIMUM YIELD STRESS OF 55,000 P.S.I.
2. Cast Anchor Base & Handhole frame - ASTM-A27 - Grade 65-35.
3. Handhole Cover Plate - 11 ga. Steel S.A.E.-1015.
4. Cast Aluminum Pole Top - Aluminum Alloy 43.
5. Span Wire Clamp - Low Alloy, High Strength Steel ASTM-A242 - or 375, load distortion 12,500 lbs. direct tension.
6. All bolts & nuts less than 5/8" dia. passivated stainless steel AISI-300 series, commercial grade.
7. All other nuts & bolts 5/8" & over - ASTM-A307 and galvanized in accordance with ASTM-A153.
8. Anchor base & U-bolts - high strength steel - minimum yield stress 55,000 lbs./sq. in. Minimum ultimate - 90,000 p.s.i.
9. Welding rod - ASTM-A233 - Class E60XX or 70XX.
10. Galvanizing, when specified, ASTM-A123.

GROUND ROD

Ground rod shall be in accordance with typical ground rod detail and tested in accordance with 625.22 "Construction and Material Specifications."

EXPANSION MATERIAL - 1" x 4"

The cost of furnishing and placing the Expansion Material (705.03) shall be included in the unit price bid for Item 816 "Concrete Foundations for Sign Supports".



FOUNDATION DETAILS (MODIFIED)

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OHIO DEPARTMENT OF HIGHWAYS

STEEL STRAIN POLE & FOUNDATION DETAILS

APPROVED _____

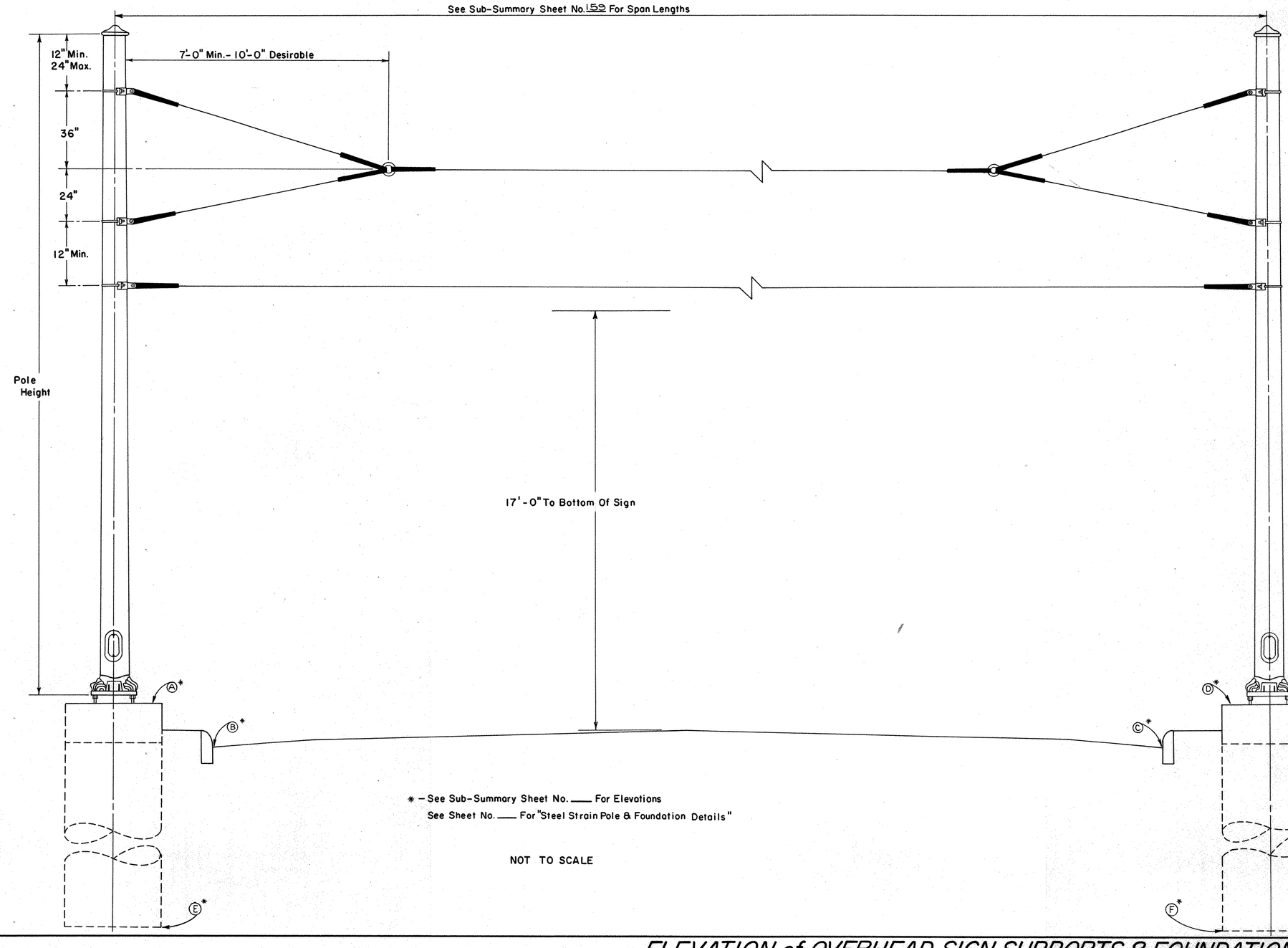
ENGINEER OF TRAFFIC

BRUNING 44-560 10943

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216

TRU-422-(14.70)-(16.38)



* – See Sub-Summary Sheet No. ___ For Elevations
See Sheet No. ___ For "Steel Strain Pole & Foundation Details"

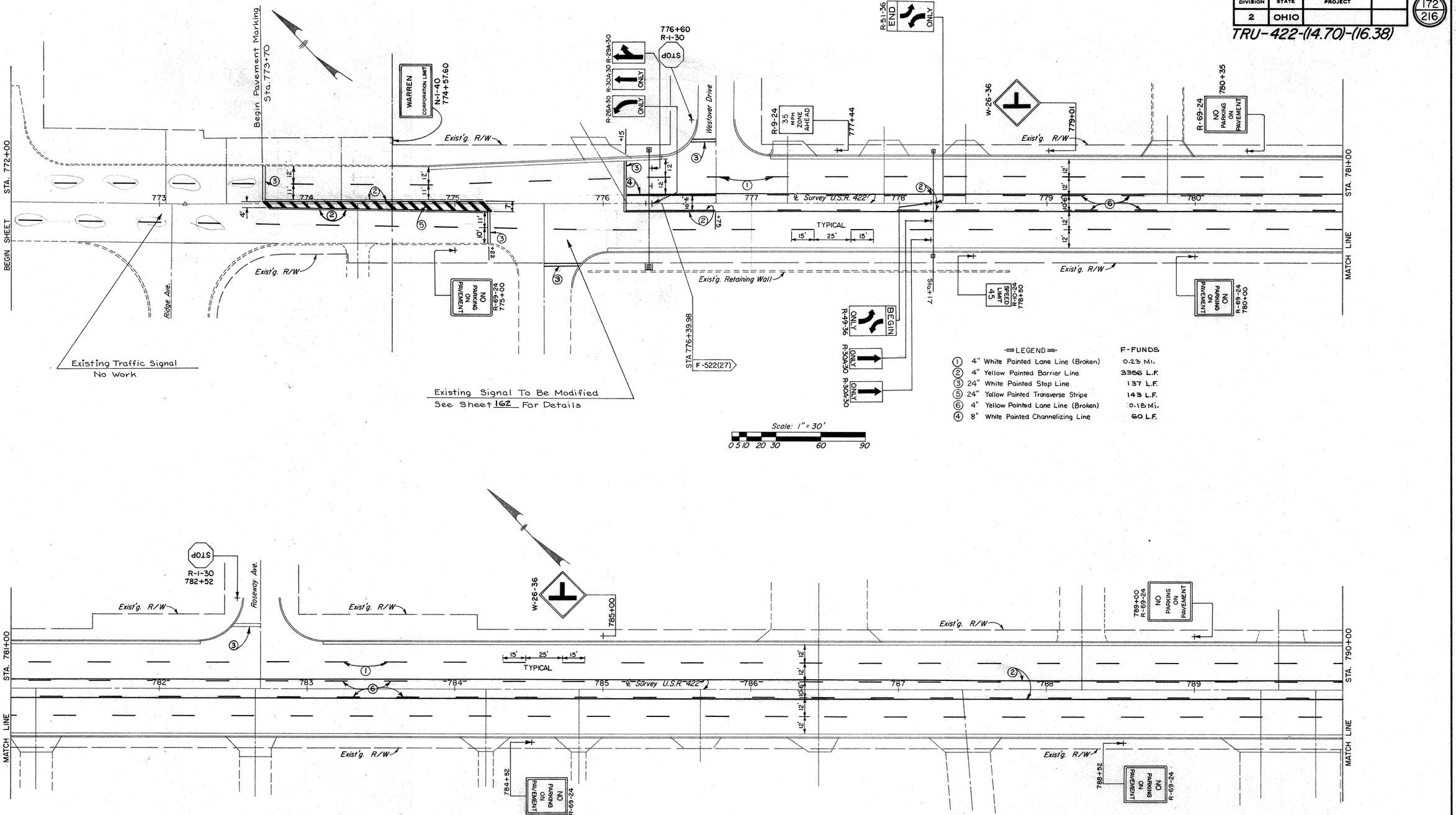
NOT TO SCALE

ELEVATION of OVERHEAD SIGN SUPPORTS & FOUNDATIONS

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

TRU-422-(14.70)-(16.38)

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LINE SHEET	BY	DATE	CHECKED BY	DATE
SURVEYED				
PLOTTED	A.H.A.	11-5-70		
INKED				
DESIGNED	A.H.A.	4-22-71	F.J.	10-18-71
QUANTITIES	W.H.	10-15-71		

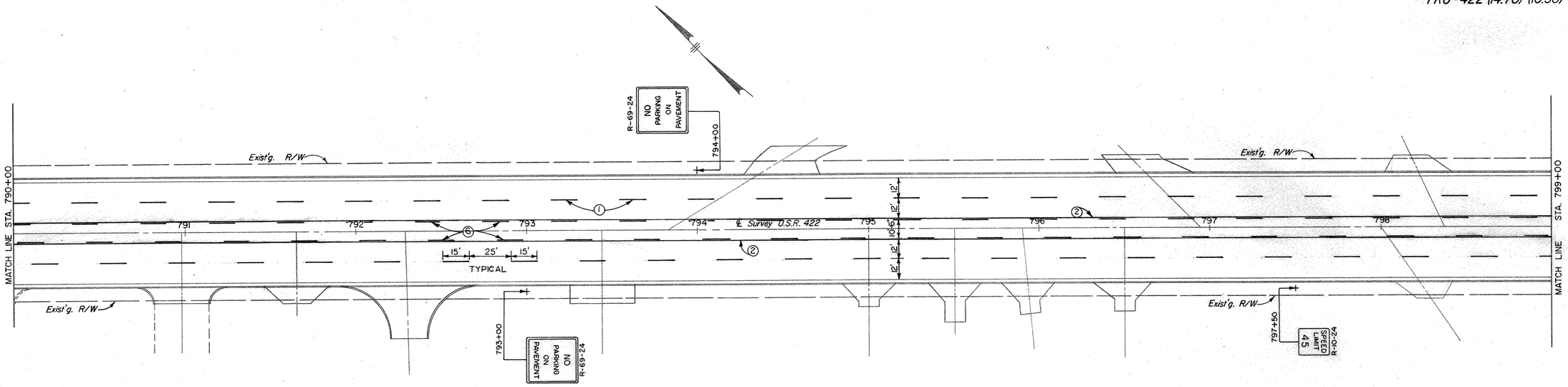
BRUNING 44-560 10943

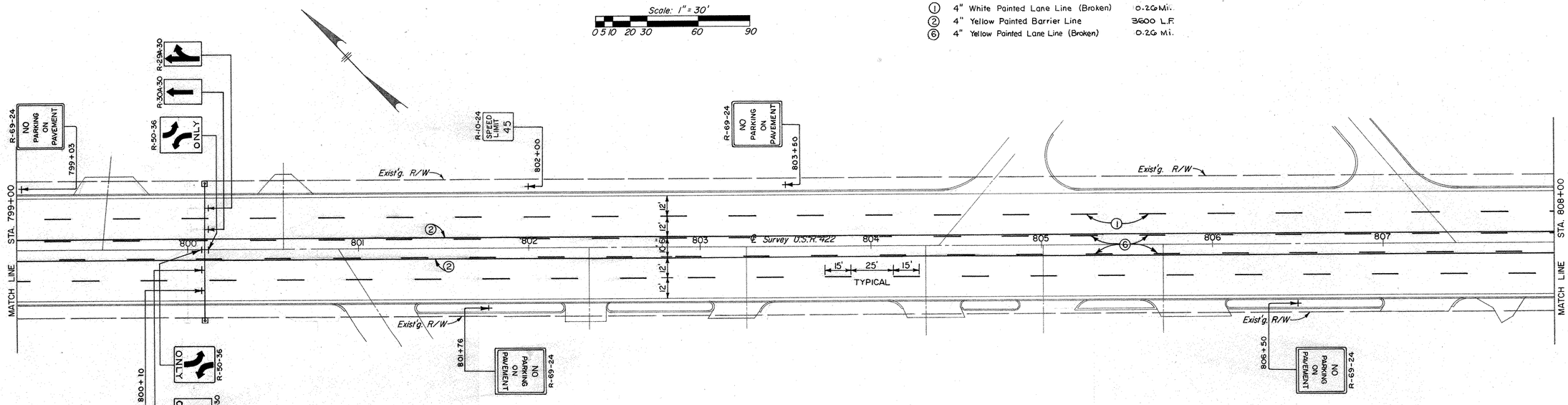
TRAFFIC CONTROL DETAILS Sta. 772+00 to Sta. 790+00 U.S.R. 422

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

TRU-422-(14.70)-(16.38)

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LINE SHEET	BY	DATE
SURVEYED	A.M.R.	11-2-70
PLOTTED		
INKED	A.H.A.	4-23-71
DESIGNED	W.H.	10-15-71
QUANTITIES		10-18-71
CHECKED BY	F.J.	
DATE		

BRUNING 44-560 10943

TRAFFIC CONTROL DETAILS Sta. 790+00 to 808+00 U.S.R. 422

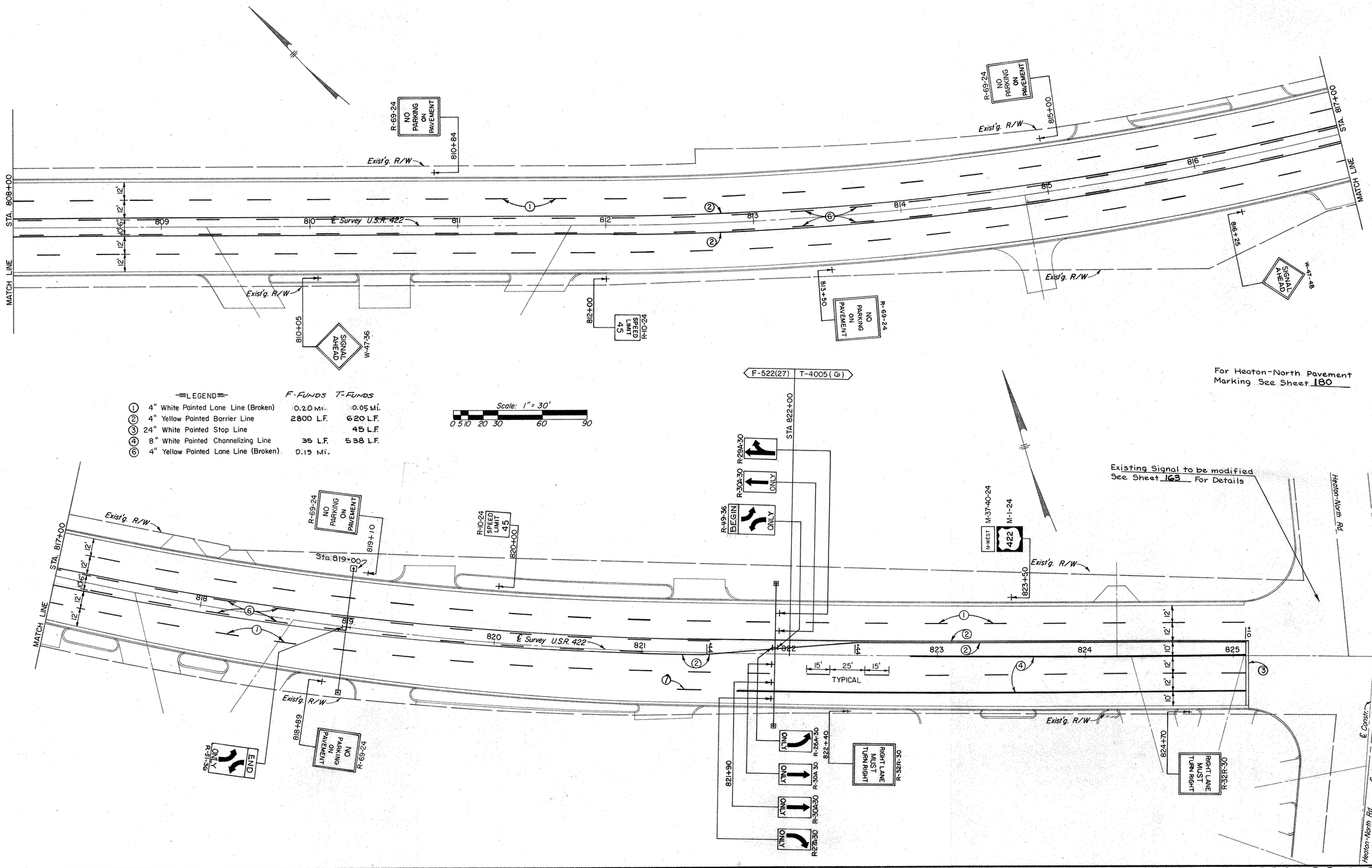
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

TRU-422-(14.70)-(16.38)

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LINE SHEET	BY	DATE	CHECKED BY	DATE
SURVEYED	A.M.A.	10-22-70	F.J.	10-18-71
PLOTTED	A.M.A.	4-27-71		
LINKED	A.H.A.	4-27-71		
DESIGNED	V. H.	10-15-71		
QUANTITIES				

BRUNING 44560 10943



LEGEND

		F-FUNDS	T-FUNDS
(1)	4" White Painted Lane Line (Broken)	0.20 Mi.	0.05 Mi.
(2)	4" Yellow Painted Barrier Line	2800 L.F.	620 L.F.
(3)	24" White Painted Stop Line		45 L.F.
(4)	8" White Painted Channelizing Line	35 L.F.	538 L.F.
(6)	4" Yellow Painted Lane Line (Broken)	0.19 Mi.	

For Heaton-North Pavement Marking See Sheet 180

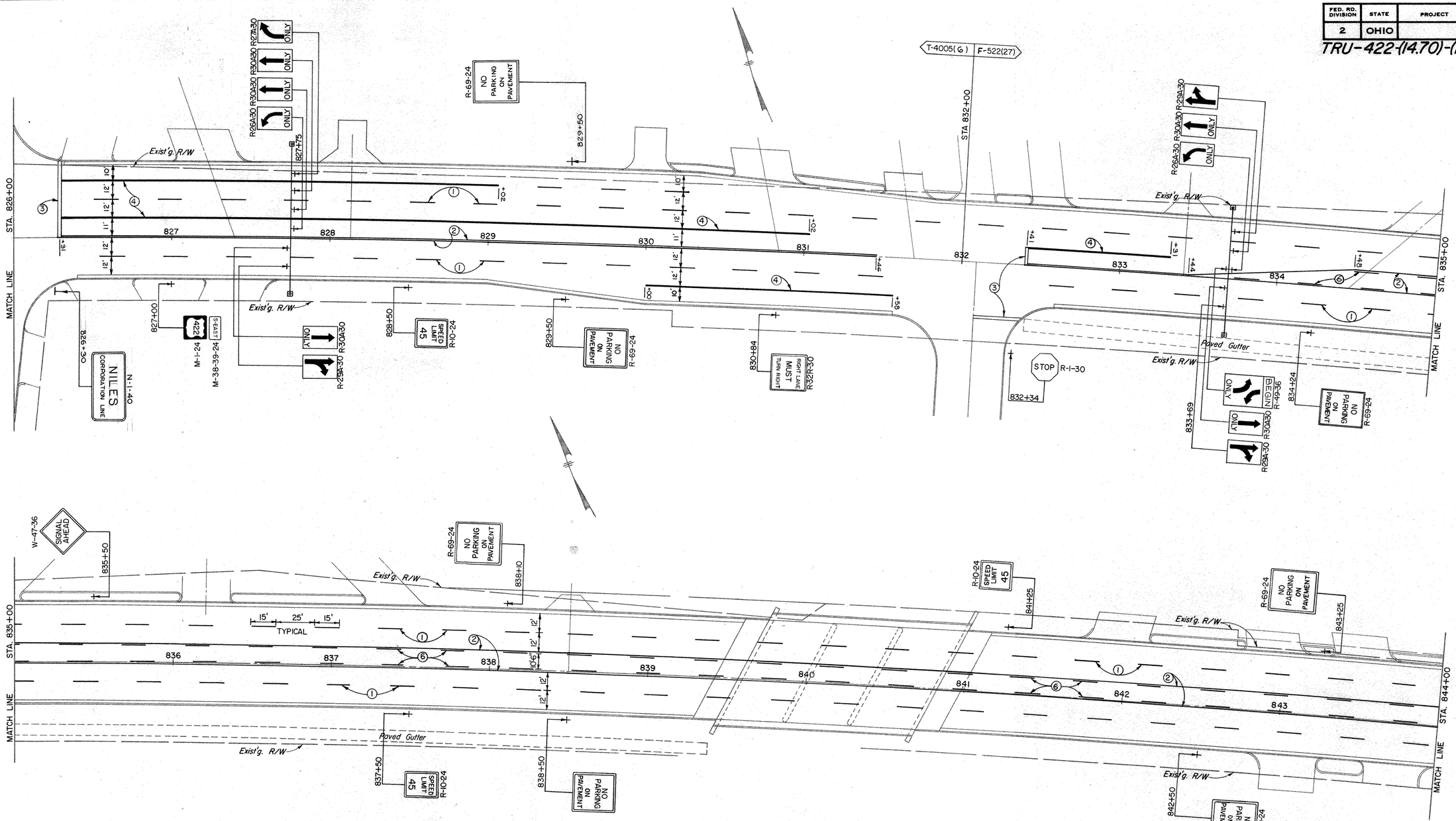
Existing Signal to be modified See Sheet 163 For Details

TRAFFIC CONTROL DETAILS Sta. 808+00 to Sta. 826+00 U.S.R. 422

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

TRU-422-(14.70)-(16.38)

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LEGEND		F-FUNDS	T-FUNDS
①	4" White Painted Lane Line (Broken)	0.17 Mi.	0.09 Mi.
②②	4" Yellow Painted Barrier Line	2314 L.F.	1030 L.F.
③	24" White Painted Stop Line	41 L.F.	48 L.F.
④	8" White Painted Channelizing Line	88 L.F.	900 L.F.
⑥	4" Yellow Painted Lane Line (Broken)	0.14 Mi.	

Scale: 1" = 30'
0 5 10 20 30 60 90

LINE SHEET	BY	DATE	CHECKED BY	DATE
SURVEYED	A.H.A.	10-19-70		
PLOTTED		9-30-71		
INKED	A.H.A.	6-27-72		
DESIGNED	A.H.A.	10-17-72	W.H.	10-17-72
QUANTITIES	W.H.	10-17-72		10-17-72

BRUNING 44-560 10943

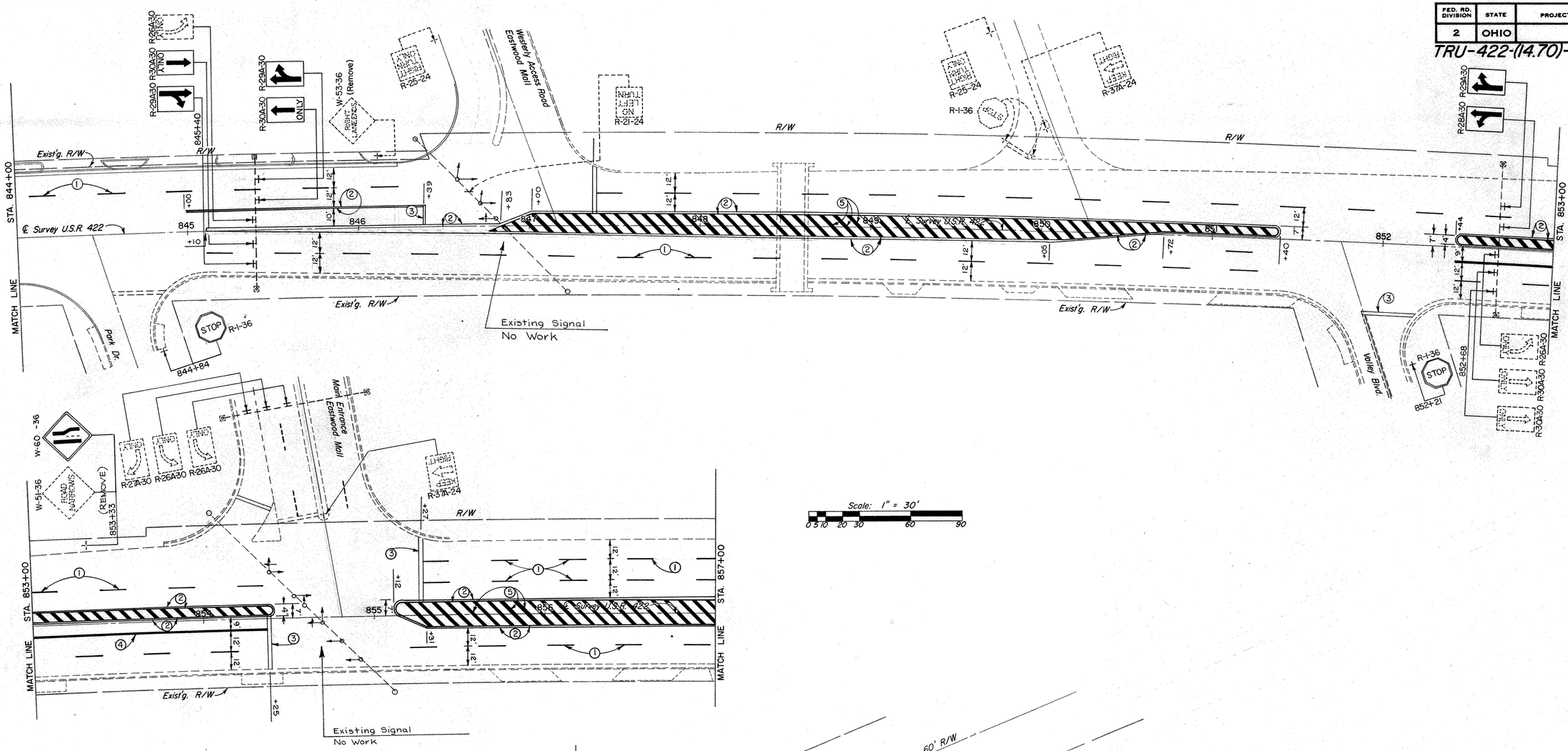
TRAFFIC CONTROL DETAILS Sta. 826+00 to Sta. 844+00 U.S.R. 422

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

TRU-422-(14.70)-(16.38)

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LINE SHEET			
	BY	DATE	CHECKED BY	DATE
SURVEYED	G.S.C.	3-28-68		
PLOTTED	A.H.A.	9-29-71		
INKED	A.H.A.	2-10-71		
DESIGNED	A.H.A.	10-15-71	W. H.	10-17-71
QUANTITIES	F.J.	10-15-71		



Scale: 1" = 30'
0 5 10 20 30 60 90

LEGEND

		F-FUNDS
①	4" White Painted Lane Line (Broken)	0.25 Mi.
②	4" Yellow Painted Barrier Line	6058 L.F.
③	24" White Painted Stop Line	107 L.F.
④	8" White Painted Channelizing Line	266 L.F.
⑤	24" Yellow Painted Transverse Stripe	2318 L.F.

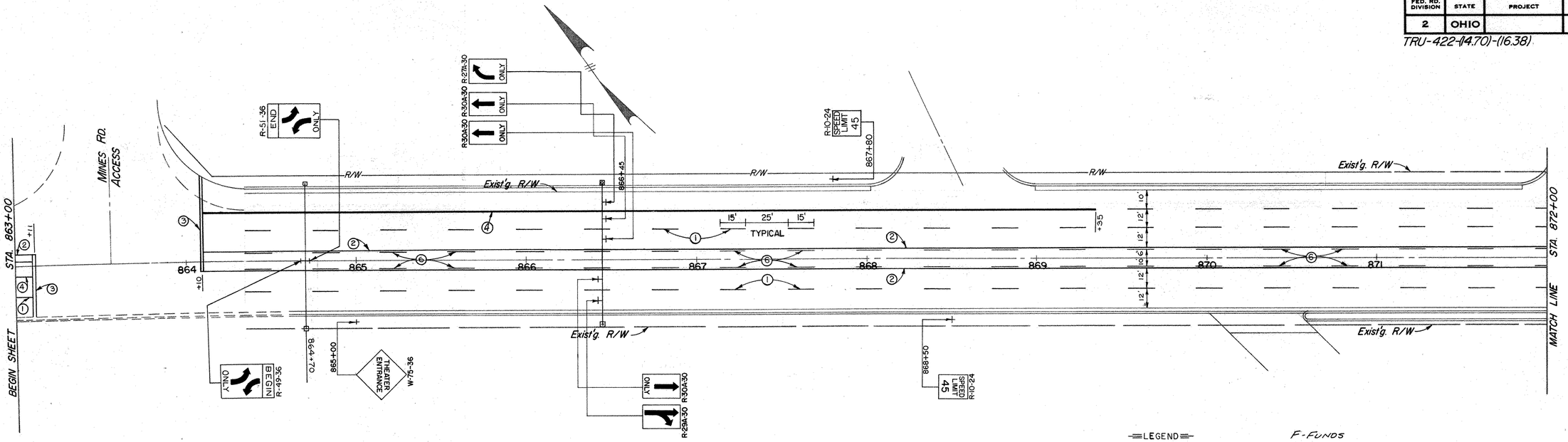
BRUNING 44-560 10943

TRAFFIC CONTROL DETAILS EASTWOOD MALL AREA Sta. 844+00 to Sta. 863+00 U.S.R. 422

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

TRU-422-(14.70)-(16.38)

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LINE SHEET	BY	DATE	CHECKED BY	DATE
SURVEYED	F.M.L.	JULY 1970	R.S.	9-23-70
PLOTTED	A.H.A.	10-6-70	J.S.	10-14-70
INKED	A.H.A.	8-18-70	L.S.	9-8-70
DESIGNED	A.H.A.	10-15-70	L.S.	9-8-70
QUANTITIES	W.H.	10-15-70	F.S.	10-19-70

BRUNING 44-560 10943

TRAFFIC CONTROL DETAILS Sta. 863+00 to Sta. 881+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

TRU-422-(14.70)-(16.38)

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LINE SHEET	BY	DATE	CHECKED BY	DATE
ENGINEER	F.M.L.	7-10-70		
CHIEF	A.H.G.	10-6-70		
DESIGNED	A.H.G.	9-14-70	R.S.	9-23-70
QUANTITIES	W.H.	10-15-71	F.J.	10-14-71

End Pavement Marking Sta. 16+83

Match Line Sta. 16+25

Johnnycake Rd

Exist'g. R/W

R/W

STA. 881+00

MATCH LINE

882 ℄ U.S.R. 422

883 884 885 886 887 888 ℄ U.S.R. 422 889

STA. 890+00

14-0 Frederick St.

R-50-36 R-30A-30 R-29A-30 ONLY

R-49-36 BEGIN ONLY

R-10-24 SPEED LIMIT 45

R-32R-30 RIGHT LANE MUST TURN RIGHT

R-51-36 R-27A-30 R-30A-30 R-30A-30 ONLY END

M-2-24 46 JCT M-17-24

Scale: 1" = 30'

0 5 10 20 30 60 90

LEGEND

1. 4" White Painted Lane Line (Broken)
2. 4" Yellow Painted Barrier Line
3. 24" White Painted Stop Line
4. 8" White Painted Channelizing Line
6. 4" Yellow Painted Lane Line (Broken)
7. 4° Edge Line White
5. 24" Transverse Stripe Yellow

	F-Funds	T-Funds
1	0.15 Mi.	0.09 Mi.
2	2453 L.F.	1218 L.F.
3	134 L.F.	90 L.F.
4	322 L.F.	915 L.F.
6	0.10 Mi.	0.02 Mi.
7	0.08 Mi.	
5	92 L.F.	

Begin Pavement Marking Sta. 13+00

Exist'g. R/W

298 S.R. 46 N 09°-45'-30" E

297

F-522(27) T-4005(G)

STA 892+00

R-30A-30 R-29A-30 ONLY

R-26A-30

M-37-40-24 N-WEST 422 M-1-24

D-2-72 NORTH 46 SOUTH 893+76

893+20

891 892 ℄ U.S.R. 422 893 S-37°-44'-E 894 895 896 ℄ U.S.R. 422 S-37°-23'-E 897

STA. 899+00

895+10 D-2-72 N-WEST S-EAST 422 R-32R-30 RIGHT LANE MUST TURN RIGHT 895+75

15' 25' 15' TYPICAL

R-26A-30 R-30A-30 R-30A-30 R-27A-30 ONLY

R-30A-30 R-29A-30 ONLY

R-32R-30 RIGHT LANE MUST TURN RIGHT 893+08

R-27A-30 R-30A-30 R-30A-30 R-26A-30 ONLY

891+55

For S.R. 46 Pavement Marking See Sheet 181

Existing Signal To Be Modified See Sheet 165 For Detail

296 ℄ S.R. 46 N 39°-28'-E

295

895+44 895+10 D-2-72 N-WEST S-EAST 422 M-1-24 M-38-39-24

D-2-72 NORTH 46 SOUTH 895+40

897+80

R-30A-30 R-29A-30 ONLY

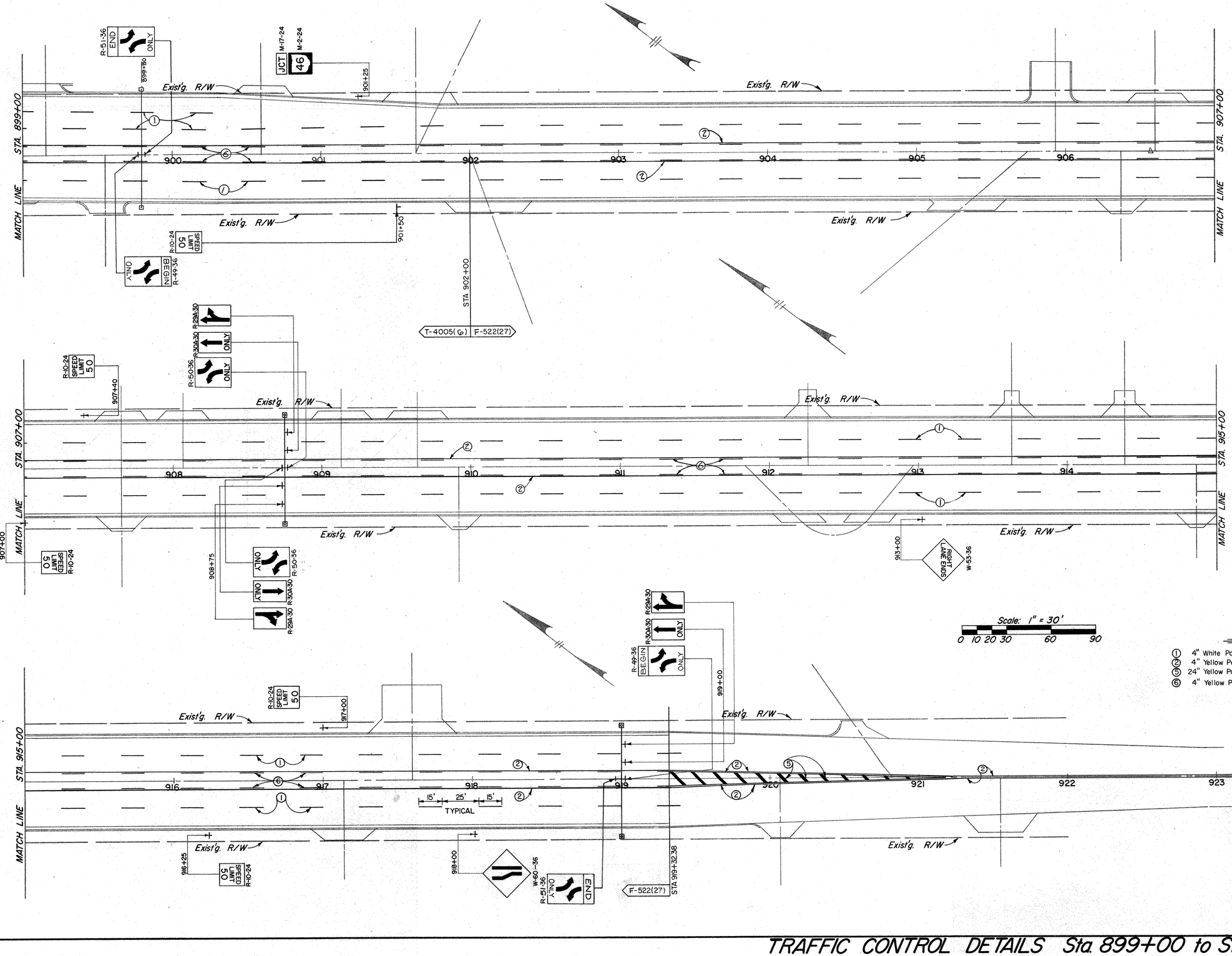
BRUNING 44-560 10943

TRAFFIC CONTROL DETAILS Sta. 881+00 to Sta. 899+00 U.S.R. 422

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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TRU-422-(14.70)-(16.38)



LEGEND

		F-FUNDS	T. FUNDS
①	4" White Painted Lane Line (Broken)	0.25 Mi.	0.05 Mi.
②	4" Yellow Painted Barrier Line	4620 L.F.	600 L.F.
⑤	24" Yellow Painted Transverse Stripe	90 L.F.	
⑥	4" Yellow Painted Lane Line (Broken)	0.24 Mi.	0.04 Mi.

LINE SHEET	BY	DATE	CHECKED BY	DATE
SURVEYED		JULY 1970		
PLOTTED	F.M.L.	10-5-70		
LINKED	A.H.A.	8-24-70	R.S.	9-23-70
DESIGNED	A.H.A.	10-15-71	F.S.	10-14-71
QUANTITIES	W.H.			

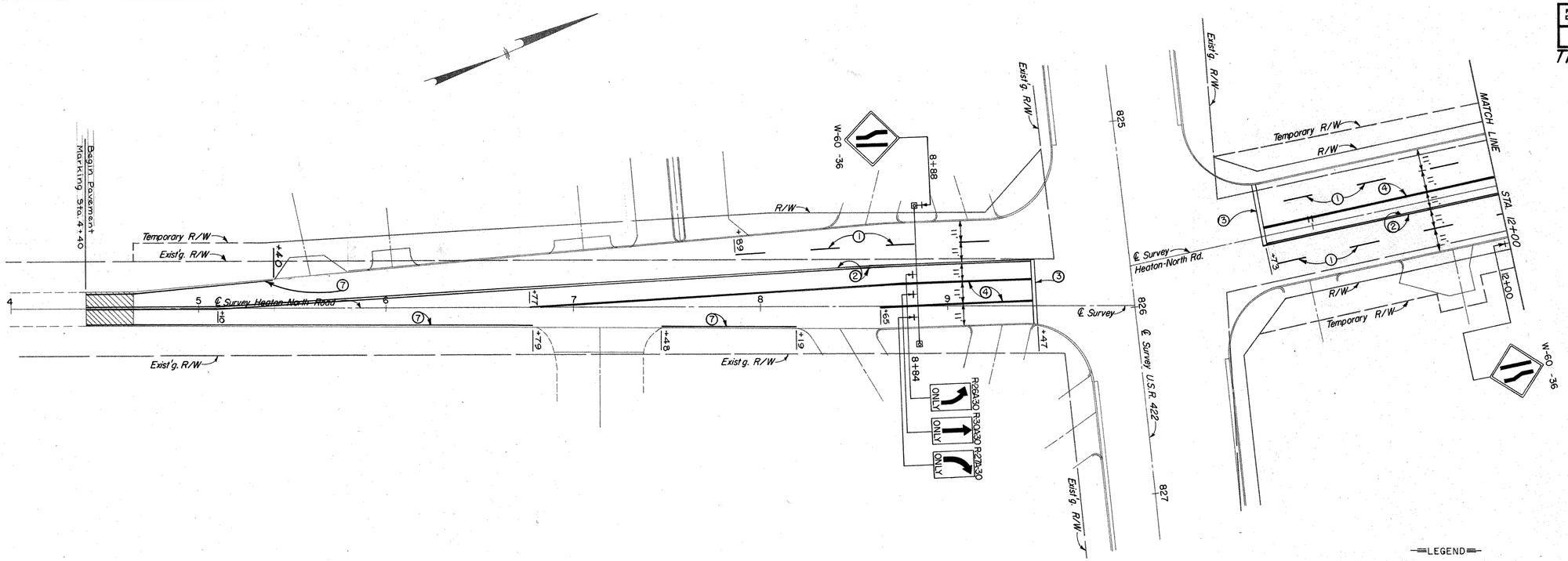
BRUNING 44-560 10943

TRAFFIC CONTROL DETAILS Sta. 899+00 to Sta. 923+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

TRU-422-(14.70)-(16.38)

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—LEGEND—

		T-FUNDS
①	4" White Painted Lane Line (Broken)	0.07 Mi.
②	4" Yellow Painted Barrier Line	2514 L.F.
③	24" White Painted Stop Line	67 L.F.
④	8" White Painted Channelizing Line	676 L.F.
⑦	4" White Painted Edge Line	0.17 Mi.

LINE SHEET	BY	DATE	CHECKED BY	DATE
SURVEYED	A.H.A.	12-9-70		
PLOTTED	A.H.A.	9-23-71		
INKED	A.H.A.	7-15-71		
DESIGNED	A.H.A.	10-19-71	F.J.	10-19-71
QUANTITIES	W.N.	10-19-71		

BRUNING 44-560 10943

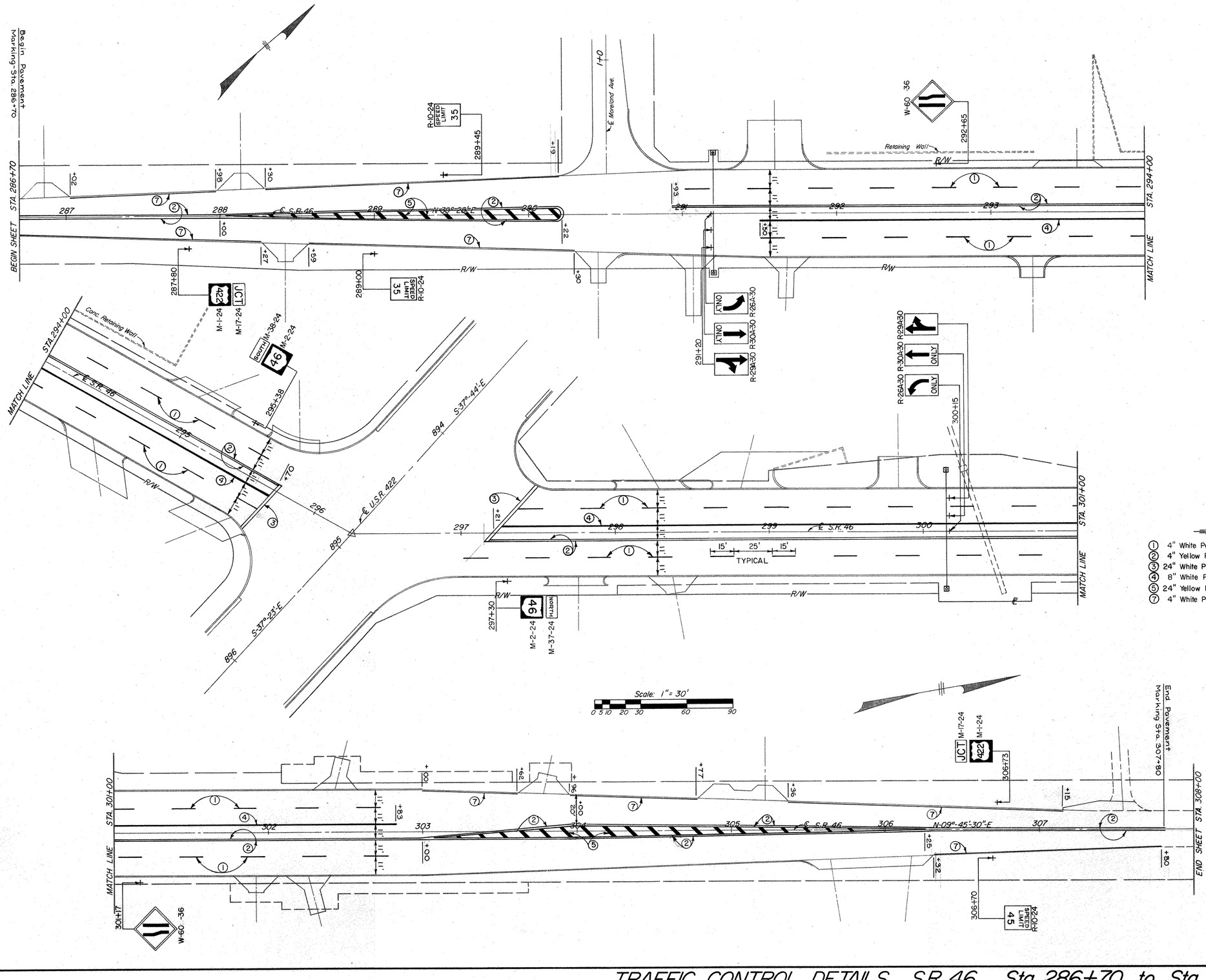
TRAFFIC CONTROL DETAILS Sta. 4+00 to Sta. 21+00 Heaton-North Road

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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216

TRU-422-(14.70)-(16.38)

LINE SHEET	BY	DATE	CHECKED BY	DATE
SURVEYED				
PLOTTED	FML	July 1970		
INKED	AHA	6-11-71		
DESIGNED	A.H.A.	7-15-71		
QUANTITIES	W.H.	10-15-71	F.J.	10-18-71



LEGEND

		T-FUNDS
(1)	4" White Painted Lane Line (Broken)	0.15 Mi.
(2)	4" Yellow Painted Barrier Line	4868 L.F.
(3)	24" White Painted Stop Line	76 L.F.
(4)	8" White Painted Channelizing Line	977 L.F.
(5)	24" Yellow Painted Transverse Stripe	208 L.F.
(7)	4" White Painted Edge Line	0.21 Mi.

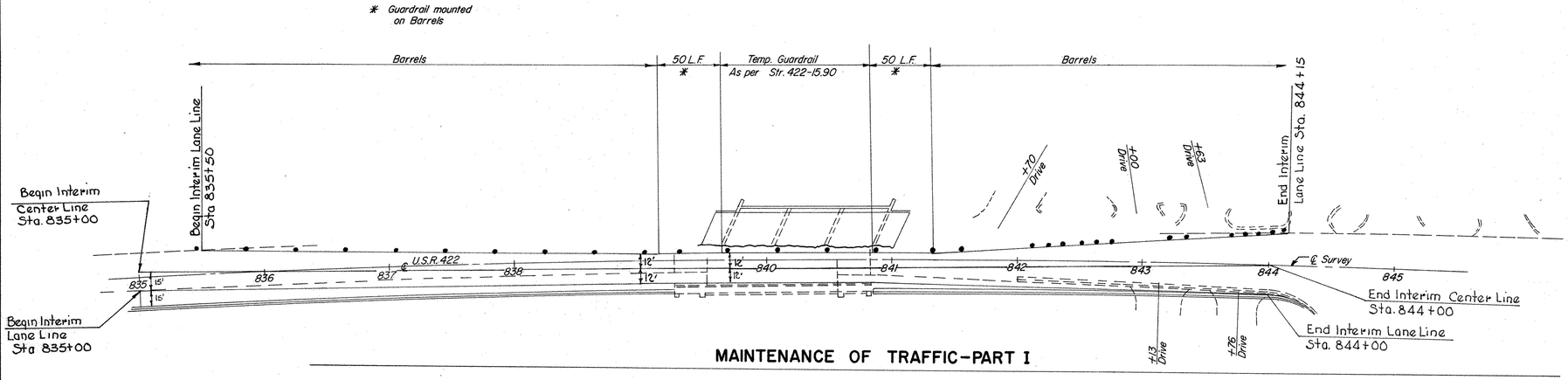
TRAFFIC CONTROL DETAILS S.R. 46 Sta. 286+70 to Sta. 308+00

BRUNING 44-560 10943

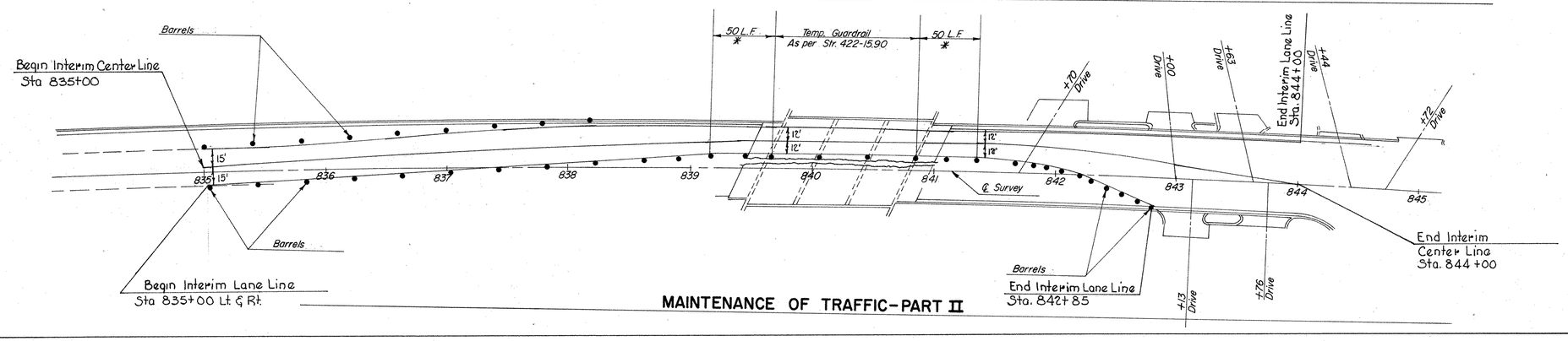
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

TRU-422-(14.70)-(16.38)

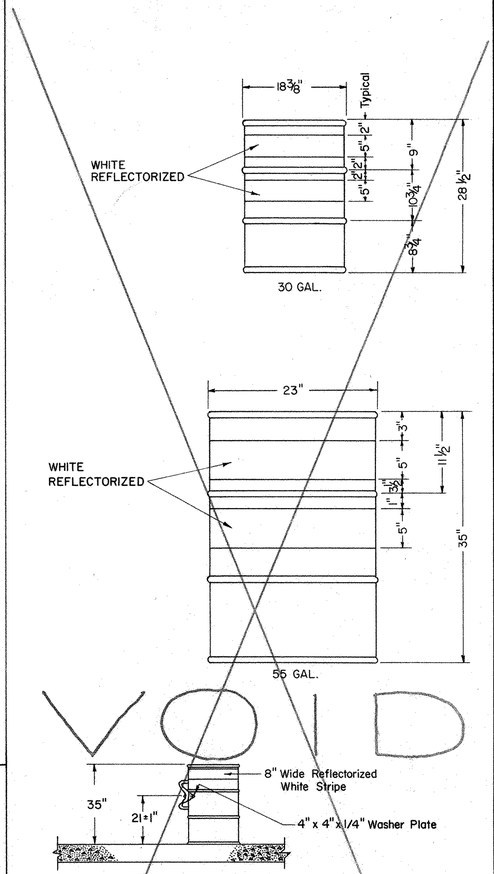
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MAINTENANCE OF TRAFFIC-PART I



MAINTENANCE OF TRAFFIC-PART II



DRUM REFLECTORIZATION

NOTES:

1. Drums shall be painted with Yellow Equipment Enamel in accordance with Section 514.
2. Drums used at night, without guardrail, shall have at least two 5" wide white circumferential stripes reflectorized with glass beads (712.05) used at a rate of six (6) pounds per 100 sq. ft. of surface or reflective sheeting (SUPPLEMENTAL SPEC. 815), or high quality reflective paint approved by the Engineer.
3. When used with guardrail at night, drums shall be 55 gallon and have one eight (8) inch reflectorized stripe above the guardrail.
4. Drums may be approximately 1/2 filled with granular material and provided with four weep holes approximately 1/2" in diameter equally spaced about 1" above the bottom.

SUMMARY OF QUANTITIES

Temporary Beam Rail	200 L.F.
Interim Pavement Marking, Edge Line	0.65 Mile
Interim Pavement Marking, 4", Solid Yellow Center Line	0.34 Mile
INTERIM BARRELS, AS PER PLAN	200 EACH

NOTE: Above quantities included in Item 614, Maintaining Traffic and are for information only.

GENERAL NOTES

621 INTERIM PAVEMENT MARKING LIMITS

Although Interim Pavement Marking Limits are located on this sheet, limits may be revised by the Engineer to fit the field conditions.

621 INTERIM PAVEMENT MARKING, BY TYPE

This work shall consist of the furnishing and installation of interim removable markings as specified herein and shown on the plans.

1. MATERIAL

Material shall consist of a backing coated with a pressure sensitive adhesive and a weather and traffic resistant reflective white or yellow colored surface and additional requirements as follows:

A. REFLECTION- the white and yellow striping material shall be reflex-reflective, reflecting white or yellow respectively and shall be readily visible when viewed with automobile headlights at night.
B. ADHESIVE- the striping material shall have a precoated pressure-sensitive adhesive which shall not require a liner for protection from contamination, pre-adhesion or blocking within the roll as delivered.
C. CONFORMABILITY- the striping material shall be thin, flexible, formable and, following application, shall remain conformed to the texture of the pavement surface.
D. REMOVABILITY- the striping material backing shall permit removal without requiring sand-blasting, solvent or grinding methods.
E. DURABILITY- the striping material applied in accordance with recommended procedures shall be weather resistant and show no appreciable fading, lifting or shrinkage prior to the completion of this project.
F. GENERAL- the striping material as supplied shall be of good appearance, free from cracks and edges shall be true, straight and unbroken. The striping material shall be supplied in rolls and there shall be no more than 3 splices per 60 yards of length.

The striping material shall be prepared for delivery in standard commercial containers so constructed as to insure acceptance by the carrier and prevent damage during proper shipment and storage.

The Contractor shall store the material in a cool, dry location where temperature will not exceed 100° F, prior to application of marking on roadway surfaces.

2. ROAD SURFACE PREPARATION

The road surface must be clean and dry, free of oils and grease, dust or dirt. All surfaces must be primed.

Concrete pavement shall be surface treated in accordance with Section 621.04. Surface shall then be generously flushed with clean water and allowed to dry thoroughly prior to application of primer and interim markings.

3. PRIMING

Method of priming shall be as approved by the Engineer. The Contractor shall submit a proposal for type of priming to be used. Cost for priming surfaces shall be incidental to the cost of various items included in Item 615, Temporary Roads, as per plan.

4. APPLICATION

Interim lines shall be applied to the road surface with a roller type applicator and rolled immediately afterwards by a rubber-tired roller with approximate single wheel load between one thousand (1000) and two thousand (2000) pounds.

5. LOCATION

The locations of interim pavement marking shall be as directed by the Engineer and shall be used in conjunction with Part I & II of the Maintenance of Traffic for Str. 422-15.90.

6. BASIS OF PAYMENT

Cost of furnishing, installation of interim pavement marking and removal of pavement marking shall be included in Item 614 Maintaining Traffic.

TEMPORARY PAVEMENT MARKINGS

During construction of new pavement on the expressway 4" Lane Lines shall be maintained while the various pavement courses are applied. Temporary 4" Lane Lines shall be applied in accordance with Item 621 within 48 Hours of any reconstructed section of expressway pavement following base or finished pavement course construction.
The following estimated quantity of Temporary 4" Lane Lines is carried to the General Summary for this purpose.

F-522(27) 8.00 MILES
T-4005(6) 2.00 MILES

Traffic shall be maintained during application of Temporary Pavement Markings in accordance with the Ohio Manual of Uniform Traffic Control Devices (See Figures C-14 and C-15)

Basis of payment shall be at the Contract Bid Price per Temporary 4" Lane Lines including all labor, materials, equipment and incidentals necessary to maintain traffic and furnish and place the necessary markings.

LINE SHEET	BY	DATE	CHECKED BY	DATE
SURVEYED				
PLOTTED				
INKED	A.H.A.	9-10-71		
DESIGNED	F.J.U.	9-10-71		
QUANTITIES	F.J.U.	9-10-71		

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	F-522(27) T-4005(6)	

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TRU-422-(14.70)(16.38)

MICROFILMED
APR 16 1979
RECORDATION

SHADOWS

FRAME BARN

SHADOWS

SHADOWS

GILLBOA RD.

MOSQUITO CREEK

1.2 mi± S.E. Warren

1 STORY BRICK BLDG.

EXISTING BRIDGE DATA
TYPE: Deck plate girder
SPAN: 100'-0" clear
ROADWAY: 41'-0" / 2-5'-0" sidewalks
SKEW: none
LOADING: H-15-33
WIDEN: 1937
CONDITION:
superstructure good
substructure poor

℄ CURVE DATA
P.I. STA. 844+93.74
△ = 20°-02'-30" R.T.
D = 0°-30'
R = 11459.16'
L = 4008.34'
T = 2024.85'
E = 177.46'

Transition 2:1 to 3:1 at all four corners.

Elev. 854.0±

25°

8" Water

36'-0"

24'-0"

8" Water

8" Casing

TO WARREN 1.23 MI.

TO GIRARD 3.39 MI.

End Approach Slab
Sta. 839+57.95

Begin Approach Slab
Sta. 840+82.05

℄ Construction

℄ Survey
R=11,459.16

Exist. curb

64'-0" ℄ Curbs

DRAIN

Future 12" Water Line

End 12" Water Line

12"

Drainage Area = 132.0 Sq. Mi.
97.5 Sq. Mi. Regulated by Mosquito Creek Reservoir
34.5 Sq. Mi. Un-regulated

1988 Design traffic = 32,650 A.D.T.

Q_{10} = 1,870 c.f.s. (Estimated)
Q_{25} = 2,700 c.f.s. (Estimated)

Clears 10yr. H.W. 4.1' ±

Earthwork limits shown are schematic. Actual slopes shall conform to plan cross sections.

Bridge Limits = 124.10'

S.to 839+57.95

Sta. 840+82.05

-0.39%

BRICK BLDG.

SHADOWS

PROPOSED STRUCTURE

TYPE: Prestressed non-composite box beams with capped pile substructure
SPANS: 41.0'-41.0'-41.0'
ROADWAY: 64'-0" ℄ 2-4' Sidewalks
LOADING: HS 20-44
SKEW: 25° L.F.
SURFACE COURSE: 2½" Asphalt Concrete
APPROACH SLABS: AS-1-67 (15' long) Modified
ALIGNMENT: 0°-30' curve right
SUPERELEVATION: None

Proposed graphic and given grade along ℄ construction

Graphic Grade

Exist. 8" water

14" Cast-in-place reinforced concrete piles
Estimated Pile Lengths
Rear Abutment = 30'
Rear Pier = 35'
Forward Pier = 40'
Forward Abutment = 40'

Future 12" water

Normal water Elev. 859.7 ±
Elev. 862.9

Assumed 10yr. H.W. Elev. 864.5±

Elev. 868.2±

July 1959 Flood
Elev. 865.5 Assumed 20yr.

2:1(Norm)

2:1(Norm)

Excavate channel thru structure to Elev. 854.0±

Elev. 867.6±

Graphic grade

Elev. 862.3

Future 12" water

Provide 601.05 Slope Protection, both abutments

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES

1/12

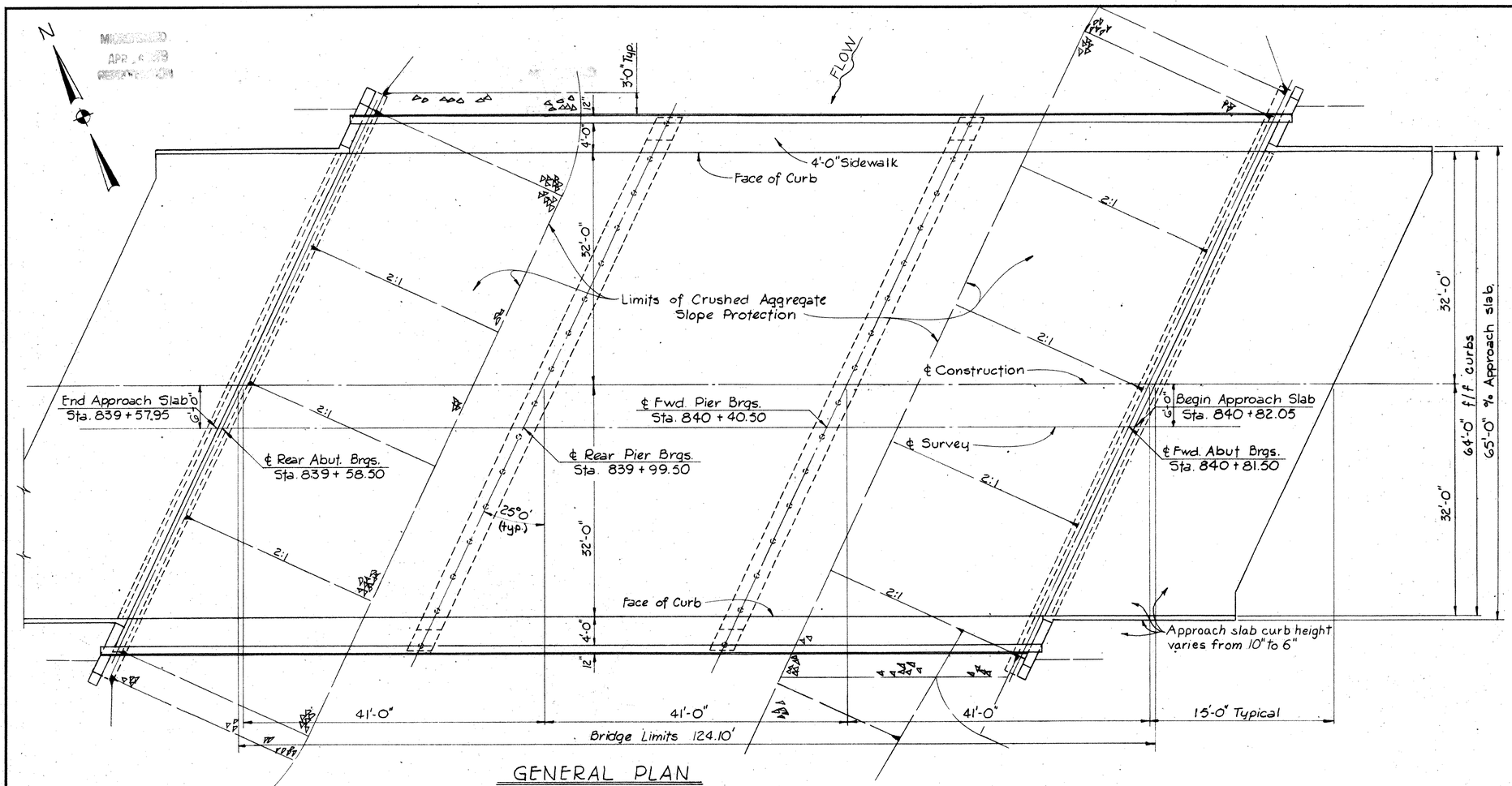
SITE PLAN

BRIDGE NO. TRU-422-1590
OVER MOSQUITO CREEK
TRUMBULL CO. USR 422

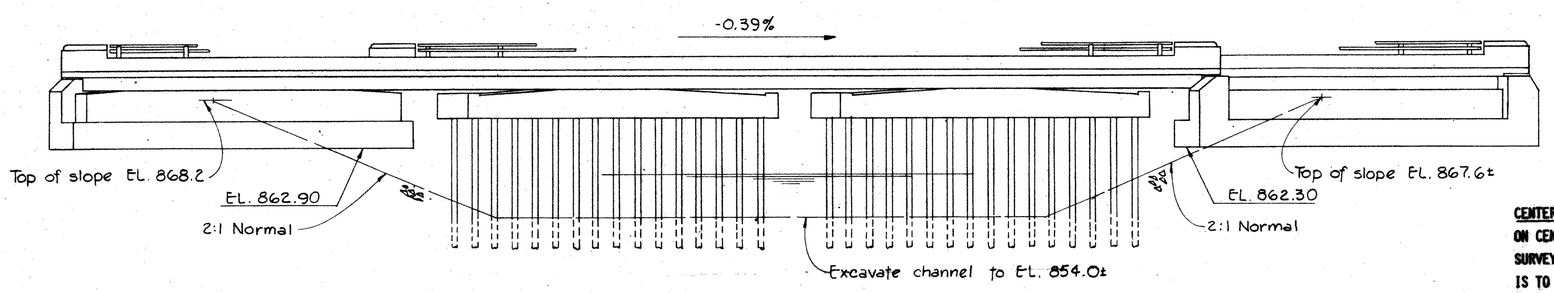
SEC.
STA. 839+57.59
SCALE 1"=20' (Horz) 1"=10" (Vert) 840+82.05

PRESENT TOPOGRAPHY		PROPOSED WORK			
SURVEYED	DRAWN	DESIGNED	DRAWN	CHECKED	REVIEWED
AERIAL SURVEY	AERIAL SURVEY	N.J.B.	N.J.B.	D.H.S.	G.E.A.

BFG 9-30-71



GENERAL PLAN



(Not all piles shown)

ELEVATION

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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TRU-422-(14.70)(16.38)

CONSTRUCTION PROCEDURE:

1. ERECT TEMPORARY GUARDRAIL ON EXISTING STRUCTURE AND ESTABLISH TWO-WAY TRAFFIC.
2. REMOVE PORTIONS OF EXISTING STRUCTURE NOTED UNDER FIRST STAGE CONSTRUCTION.
3. ERECT ABUTMENTS AND PIERS AS NOTED UNDER FIRST STAGE CONSTRUCTION AND PLACE BEAMS 1 THRU 8.
4. BEFORE PLACING SIDEWALK SLAB AND PERMANENT RAILING LAY 2 1/2" ASPHALT CONCRETE WEARING SURFACE AS NOTED UNDER FIRST STAGE CONSTRUCTION.
5. ITEMS 6 THRU 8 SHALL BE PERFORMED WHEN TRAFFIC DENSITY IS AT A MINIMUM. THE WORK SHALL BE PERFORMED EXPEDITIOUSLY TO MINIMIZE DELAY.
6. REMOVE TEMPORARY RAILING ON EXISTING STRUCTURE.
7. RELOCATE TEMPORARY RAILING ON BEAM 8 AS PER PLAN.
8. ESTABLISH TWO-WAY TRAFFIC ON FIRST STAGE CONSTRUCTION.
9. REMOVE REMAINING PORTIONS OF EXISTING STRUCTURE
10. ERECT ABUTMENTS AND PIERS AS NOTED UNDER SECOND STAGE. CONSTRUCTION AND PLACE BEAMS 9 THRU 19.
11. BEFORE ERECTION OF SIDEWALK, ESTABLISH ONE-WAY TRAFFIC AND PLACE 2 1/2" ASPHALT CONCRETE WEARING SURFACE.
12. ESTABLISH TWO-WAY TRAFFIC.
13. ERECT SIDEWALK AND PERMANENT RAILING, REMOVE TEMPORARY RAILING ON BEAM 8.
14. COMPLETE PROJECT.

BEAM ERECTION:

FIRST STAGE CONSTRUCTION MAY BEGIN WITH THE BEAM LINE 8 OR 2. IF ERECTION IS BEGUN WITH BEAM LINE 2, THAT BEAM SHALL BE PLACED WITH ITS FASCIA 28'-0" PLUS FIT UP NORMAL TO CENTERLINE CONSTRUCTION IN ORDER THAT THE CENTER BEAM MAY BE CENTERED AS NEARLY AS POSSIBLE ON THE CENTERLINE CONSTRUCTION. FINAL LOCATION OF EACH BEARING SHALL BE WITH RESPECT TO THE ACTUAL JOINT LOCATION. FIT UP IS ESTIMATED AT 3/8" PER BEAM JOINT. THE SECOND STAGE OF CONSTRUCTION IS SIMILAR TO THE FIRST STAGE.

CENTER LINE OF CONSTRUCTION IS ON A 6' OFFSET TO THE CHORD ON CENTER LINE OF SURVEY. THIS CHORD ON CENTER LINE OF SURVEY IS MEASURED BETWEEN ABUTMENT BEARINGS. THE BRIDGE IS TO BE BUILT PARALLEL TO CENTER LINE OF CONSTRUCTION.

ASPHALT CONCRETE SURFACE COURSE SHALL CONSIST OF A VARIABLE THICKNESS OF 403 AND A 1 1/4" THICKNESS OF 404. THE 403 SHALL BE PLACED IN TWO OPERATIONS. THE FIRST COURSE SHALL BE OF 1 1/4" UNIFORM THICKNESS. THE SECOND COURSE SHALL BE FEATHERED TO PLACE THE SURFACE PARALLEL TO AND 1 1/4" BELOW FINAL SURFACE ELEVATION.

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
DIVISION OF DESIGN AND CONSTRUCTION
BUREAU OF BRIDGES

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GENERAL PLAN & ELEVATION

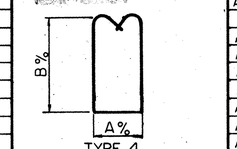
BRIDGE NO. TRU-422-1590
OVER MOSQUITO CREEK

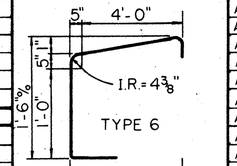
DESIGNED	DRAWN	TRACED	CHECKED	REVISED DATE	REVISED
JAM	BEB		WCK	BFG 9-30-71	

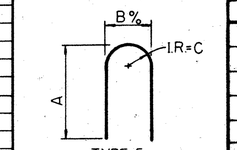
REINFORCING STEEL LIST

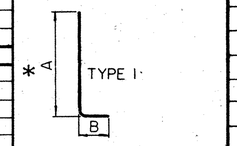
MARK	NO. REAR	NO. FWD	NO. TOTAL	LENGTH	WEIGHT	DIMENSIONS TYPE	A	B	C	D	E
SUPERSTRUCTURE											
S501	-	-	216	5'-2"	1164	4	8"	1'-10"	-	-	-
S502	-	-	64	6'-5"	0	S	-	-	-	-	-
S503	-	-	24	13'-2"	0	S	-	-	-	-	-
S504	-	-	16	16'-2"	0	S	-	-	-	-	-
S506	-	-	12	6'-4"	79	4	8"	2'-5"	-	-	-
S507	-	-	8	6'-7"	0	6	SEE BENDING DIAGRAM				
S508	-	-	8	7'-11"	0	2	4'-8"	2'-10"	8"	-	-
S509	-	-	8	4'-8"	0	S	-	-	-	-	-
S510	-	-	12	3'-3"	0	5	1'-6"	6½"	5¼"	-	-
S511	-	-	40	30'-0"	1251	S	-	-	-	-	-
S512	-	-	12	17'-0"	213	S	-	-	-	-	-
S513	-	-	10	13'-6"	141	S	-	-	-	-	-
S514	-	-	500	4'-9"	2477	S	-	-	-	-	-
S601	-	-	2	30'-6"	92	S	-	-	-	-	-
S602	-	-	4	21'-6"	129	S	-	-	-	-	-
0 INCLUDED WITH RAILING FOR PAYMENT											
REPLACEMENT BARS											
RE1001	-	-	1	8'-2"	-	S	-	-	-	-	-
RE901	-	-	1	7'-10"	-	S	-	-	-	-	-
RE801	-	-	1	7'-6"	-	S	-	-	-	-	-
RE601	-	-	1	6'-11"	-	S	-	-	-	-	-
RE501	-	-	1	6'-7"	-	S	-	-	-	-	-
RE401	-	-	1	6'-3"	-	S	-	-	-	-	-
PIERS											
P1001	8	8	16	20'-0"	1377	S	-	-	-	-	-
P1002	2	2	4	22'-10"	393	S	-	-	-	-	-
P1003	2	2	4	29'-6"	508	S	-	-	-	-	-
P1004	2	2	4	24'-0"	413	S	-	-	-	-	-
P1005	2	2	4	28'-6"	491	S	-	-	-	-	-
P901	8	8	16	20'-0"	1088	S	-	-	-	-	-
P902	2	2	4	22'-2"	301	S	-	-	-	-	-
P903	2	2	4	27'-5"	373	S	-	-	-	-	-
P904	2	2	4	21'-5"	291	S	-	-	-	-	-
P905	2	2	4	28'-2"	383	S	-	-	-	-	-
P501	150	150	300	7'-3"	2269	2	2'-8"	2'-5"	2'-5"	-	-
P502	4	4	8	7'-7"	63	2	3'-0"	2'-5"	2'-5"	-	-
P503	8	8	16	6'-11"	115	2	3'-0"	3'-2"	1'-0"	-	-
P401	64	64	128	5'-4"	456	2	1'-9"	1'-11"	1'-11"	-	-
BEAMS											
B601	-	-	416	4'-2"	‡	1	3'-10"	6"	-	-	-
‡ INCLUDED WITH PRESTRESSED CONCRETE BRIDGE MEMBERS FOR PAYMENT											
B501	-	-	120	22'-1"	‡	S	-	-	-	-	-
B502	-	-	504	22'-1"	‡	S	-	-	-	-	-
B503	-	-	416	3'-4"	‡	3	2'-4"	1'-0"	4"	-	-
B401	-	-	491	4'-10"	‡	7	2'-7"	7"	3"	9"	-
B402	-	-	477	4'-10"	‡	7	2'-7"	1'-7"	3"	3"	-
B403	-	-	491	4'-4"	‡	2	2'-7"	1'-0"	1'-0"	-	-
B404	-	-	3220	5'-6"	‡	2	3'-7"	1'-1"	1'-1"	-	-
B405	-	-	244	5'-3"	‡	2	2'-8"	1'-5"	1'-5"	-	-
B406	-	-	112	4'-2"	‡	2	3'-1"	8"	8"	-	-
B407	-	-	112	3'-6"	‡	2	2'-5"	8"	8"	-	-
B408	-	-	112	2'-8"	‡	2	1'-7"	8"	8"	-	-
B409	-	-	112	2'-1"	‡	2	1'-0"	8"	8"	-	-
B410	-	-	252	4'-0"	‡	S	-	-	-	-	-
B411	-	-	224	4'-8"	‡	2	3'-7"	8"	8"	-	-
B412	-	-	80	3'-8"	‡	2	2'-7"	8"	8"	-	-
B413	-	-	40	3'-2"	‡	2	2'-1"	8"	8"	-	-
B414	-	-	40	2'-7"	‡	2	1'-6"	8"	8"	-	-
B415	-	-	40	1'-10"	‡	2	9"	8"	8"	-	-
B416	-	-	90	3'-0"	‡	S	-	-	-	-	-
B417	-	-	56	2'-11"	‡	2	1'-0"	1'-1"	1'-1"	-	-
B418	-	-	20	4'-7"	‡	2	2'-8"	1'-1"	1'-1"	-	-
B419	-	-	20	3'-11"	‡	2	2'-0"	1'-1"	1'-1"	-	-
B420	-	-	20	3'-4"	‡	2	1'-5"	1'-1"	1'-1"	-	-
B421	-	-	20	2'-8"	‡	2	9"	1'-1"	1'-1"	-	-
B422	-	-	56	3'-8"	‡	2	1'-9"	1'-1"	1'-1"	-	-
B423	-	-	56	5'-1"	‡	2	3'-2"	1'-1"	1'-1"	-	-
B424	-	-	56	4'-5"	‡	2	2'-6"	1'-1"	1'-1"	-	-
B425	-	-	60	0'-6"	‡	S	-	-	-	-	-
ABUTMENTS											
A1001	8	8	16	24'-9"	1704	S	-	-	-	-	-
A1002	4	4	8	35'-5"	1219	S	-	-	-	-	-

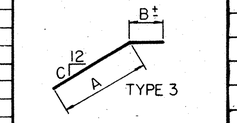
BENDING DIAGRAMS

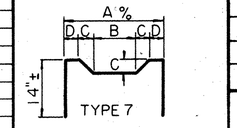












* MAY BE BENT BEFORE OR AFTER CASTING INTO BEAMS.

MARK	NO. REAR	NO. FWD	NO. TOTAL	LENGTH	WEIGHT	DIMENSIONS TYPE	A	B	C	D	E
ABUTMENTS CONTINUED											
A801	8	8	16	26'-0"	1111	S	-	-	-	-	-
A802	4	4	8	42'-11"	917	S	-	-	-	-	-
A501	8	8	16	25'-6"	426	S	-	-	-	-	-
A502	4	4	8	42'-0"	350	S	-	-	-	-	-
A503	8	8	16	24'-0"	401	S	-	-	-	-	-
A504	4	4	8	35'-5"	296	S	-	-	-	-	-
A505	12	12	24	6'-4"	159	S	-	-	-	-	-
A506	2	2	4	8'-1"	34	S	-	-	-	-	-
A507	2	2	4	8'-0"	33	S	-	-	-	-	-
A508	2	2	4	8'-2"	34	3	7'-0"	1'-2"	5⅛"	-	-
A509	2	2	4	8'-2"	34	3	6'-6"	1'-8"	5⅝"	-	-
A510	4	4	8	10'-0"	83	S	-	-	-	-	-
A511	132	132	264	6'-7"	1813	2	2'-8"	2'-1"	2'-1"	-	-
A512	112	112	224	5'-0"	1168	S	-	-	-	-	-
A513	49	49	98	4'-7"	468	2	1'-8"	1'-7"	1'-7"	-	-
A514	7	7	14	5'-1"	74	2	2'-2"	1'-7"	1'-7"	-	-
A515	4	4	8	6'-8"	56	S	-	-	-	-	-
A516	4	4	8	6'-11"	58	S	-	-	-	-	-
A517	4	4	8	7'-2"	60	S	-	-	-	-	-
A518	6	6	12	3'-9"	47	S	-	-	-	-	-
A519	7	7	14	8'-7"	125	2	1'-0"	3'-11"	3'-11"	-	-
A401	52	52	104	5'-4"	370	2	1'-9"	1'-11"	1'-11"	-	-
A402	8	8	16	4'-9"	51	2	2'-2"	1'-5"	1'-5"	-	-

ESTIMATED QUANTITIES

ITEM	TOTAL	UNIT	DESCRIPTION	ABUTS.	PIERS	SUPER.	GENL.		
202	LUMP	SUM	STRUCTURE REMOVED				LUMP		
403	34	CU.YD.	ASPHALT CONCRETE (60-70)			34			
404	32	CU.YD.	ASPHALT CONCRETE (60-70)			32			
503	197	CU.YD.	UNCLASSIFIED EXCAVATION	197					
505	LUMP	SUM	TEST PILE				LUMP		
507	2,110	LIN.FT.	14" CAST-IN-PLACE REINFORCED CONCRETE PILES	910	1,200				
509	25,158	LB.	REINFORCING STEEL	11,091	8,521	5546			
510	72	LIN.FT.	DOWEL HOLES AT 1'-0" EACH	24	48				
511	41	CU.YD.	CLASS C CONCRETE SUPERSTRUCTURE			41			
511	61	CU.YD.	CLASS C CONCRETE, PIER CAPS		61				
511	107	CU.YD.	CLASS C CONCRETE, ABUTMENTS	107					
512	903	SQ.YD.	TYPE B WATERPROOFING-MODIFIED			903			
512	8	LIN.FT.	PREMOLDED SEALING STRIP	8					
515	15	EACH	PRESTRESSED CONCRETE BRIDGE MEMBER: PBB17-36			15			
515	42	EACH	PRESTRESSED CONCRETE BRIDGE MEMBER: PBB17-48			42			
516	87	SQ.FT.	1/2" THICK ELASTOMERIC BEARING PADS, 50 HARDNESS	29	58				
516	160	SQ.FT.	1/2" PREFORMED EXPANSION JOINT FILLER	40	120				
516	90	LIN.FT.	2 1/16" X 2 3/16" NEOPRENE JOINT SEALER	30		60			
517	255	LIN.FT.	RAILING (CONCRETE PARAPET WITH DOUBLE PIPE RAIL)			255			
518	43	CU.YD.	POROUS BACKFILL	43					
601	661	SQ.YD.	CRUSHED AGGREGATE SLOPE PROTECTION	661					
606	124.10	LIN.FT.	TEMPORARY GUARD RAIL FURNISHED, CONSTRUCTED, REUSED, AND REMOVED AS PER PLAN WITH STEEL POSTS AND BOLTS			124.10			
808	41	UNIT	CHEMICAL ADMIXTURE FOR CONCRETE, TYPE A, B, D			41			

BAR SIZE IS INDICATED IN THE BAR MARK. THE FIRST DIGIT WHERE THREE DIGITS ARE USED, AND THE FIRST TWO DIGITS WHERE FOUR DIGITS ARE USED INDICATE THE BAR SIZE NUMBER. FOR EXAMPLE, A701 IS A NO. 7 SIZE BAR AND A1014 IS A NO. 10 SIZE.

GENERAL NOTES

REFERENCE SHALL BE MADE TO STANDARD DRAWING DBR-1-71 DATED 1-1-71 AND DR-2-67 REV. 1-1-71, AND TO SUPPLEMENTAL SPECIFICATIONS 808 DATED 1-1-71, 836 DATED 1-1-71.

DESIGN SPECIFICATIONS: THIS STRUCTURE CONFORMS TO "STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY OFFICIALS 1969, INCLUDING THE OHIO "SUPPLEMENT" TO THESE SPECIFICATIONS.

DESIGN DATA:
- DESIGN LOADING HS20-44
- CONCRETE, PRESTRESSED CONCRETE BEAMS - UNIT
- STRESS 2200 PSI COMPRESSION
- 222 PSI TENSION

CONCRETE, CLASS C- UNIT STRESS 1200 PSI FOR SUPERSTRUCTURE, 1333 PSI FOR SUBSTRUCTURE

PRESTRESSING STRANDS ASTM A416 F'_s = 268,000 PSI
WORKING LOAD STRESS = 0.60 F'_s

REINFORCING STEEL ASTM A615, A616, OR A617 - UNIT STRESS 20,000 P.S.I. IF BARS IN ACCORDANCE WITH ASTM A616 ARE PROVIDED THEY SHALL BE SUBJECT TO BEND TESTS AS PER AASHO DESIGNATION M42-70.

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GENERAL NOTES CONTINUED

BEAM SEAT REINFORCING: SPECIAL CARE SHALL BE TAKEN IN PLACING THE REINFORCING STEEL IN THE VICINITY OF THE BEAM SEAT TO AVOID INTERFERENCE WITH DRILLING OF THE ANCHOR DOWEL HOLES.

TRANSVERSE TIE RODS SHALL BE 1" DIAMETER STEEL RODS OF A36 STEEL, THREADED BOTH ENDS AND WITH NUT AND WASHER AT BOTH ENDS. THREADS MAY BE CUT OR ROLLED. IF ROLLED THREADS ARE USED, MINIMUM DIAMETER OF ROD AT ROOT OF THREADS SHALL BE 0.838". TENSION MAY BE APPLIED BY A TORQUE OF APPROXIMATELY 250 FOOT-POUNDS. AFTER THE TIE RODS ARE TIGHTENED THE RECESS IN THE OUTSIDE BEAMS SHALL BE FILLED WITH NON-SHRINKING MORTAR OF THE SAME COLOR AS THE BEAMS.

NON-SHRINKING MORTAR SHALL BE MADE WITH PORTLAND CEMENT AND AN APPROVED ADDITIVE OR WITH AN APPROVED PROPRIETARY PRODUCT.

GALVANIZING: ALL ANCHOR BOLTS, STUDS, INSERTS, TIE RODS, NUTS AND WASHERS SHALL BE GALVANIZED PER 711.02

ANCHOR DOWELS: THE BEAM ENDS TO BE ANCHORED SHALL BE INDICATED ON THE PROJECT PLANS. ANCHOR DOWEL HOLES AND PRESTRESSING STRANDS SHALL BE LOCATED TO AVOID MUTUAL INTERFERENCE. THE LATERAL SPACING OF THE HOLES IN THE BEAM SHALL BE SUCH THAT THE ANCHOR DOWELS EITHER CLEAR THE ELASTOMERIC BEARING PADS OR ARE LOCATED TO PROVIDE 1" MINIMUM CLEARANCE FROM THE EDGE OF THE PAD TO THE 2" DIAMETER HOLE IN THE PAD.

ANCHOR DOWELS SHALL BE NO. 6 DEFORMED REINFORCING BARS. AFTER TENSIONING OF THE TRANSVERSE TIE RODS THE DOWEL HOLES SHALL BE DRILLED 12" INTO THE ABUTMENT AND PIER SEATS AND DOWELS INSTALLED. WHERE A FIXED CONDITION IS SPECIFIED THE DOWELS SHALL BE INSTALLED PER 510, WITH THE NON-SHRINKING MORTAR ALSO FILLING THE HOLES IN THE BEAM. WHERE EXPANSION PROVISION IS SPECIFIED THE HOLES IN THE SEAT AND THE HOLES IN THE BEAM SHALL BE FILLED WITH JOINT SEALER.

COST OF INSTALLING ANCHOR DOWELS SHALL BE INCLUDED WITH ITEM 515 FOR PAYMENT.

MORTARING OF SHEAR KEYS: AFTER THE TRANSVERSE TIE RODS HAVE BEEN TIGHTENED SHEAR KEYS SHALL BE FILLED WITH NON-SHRINK MORTAR. BEFORE MORTARING, THE ROUGHENED KEYWAY SURFACES SHALL BE WETTED, BUT NO FREE WATER SHALL BE ALLOWED TO REMAIN IN THE KEYWAYS. MORTAR SHALL BE PLACED INTO THE KEYWAYS IN A MANNER THAT INSURES COMPLETE AND SOLID FILLING. PAYMENT INCLUDED IN SUPERSTRUCTURE CONCRETE.

PILES SHALL BE DRIVEN TO A MINIMUM BEARING CAPACITY OF 35 TONS PER PILE FOR EACH SUB-STRUCTURE UNIT.

TYPE "B" WATERPROOFING MODIFIED: SHALL BE IN ACCORDANCE WITH SECTION 512 OF THE "CONSTRUCTION AND MATERIAL SPECIFICATIONS," EXCEPT AS MODIFIED. AFTER THE DECK IS PRIMED ALL JOINTS AND IRREGULARITIES IN THE BEAMS SHALL BE FILLED WITH ASPHALT CEMENT SEC. 702.01 (70-85). BEFORE THE FIRST MOPPING, AN EXTRA PLY OF FABRIC SHALL BE LAID OVER THE JOINTS EXTENDING AT LEAST 9" ON EACH SIDE OF THE JOINTS. THE MEMBRANE SHALL THEN BE MOPPED ON TOP OF THIS EXTRA PLY ALLOWING THE UNDERSIDE TO REMAIN LOOSE WHICH ALLOWS FOR MOVEMENT IN THE JOINT. PLACING OF WATERPROOFING SHALL BEGIN AT THE EDGE OF THE DECK AND SHALL PROGRESS TOWARD THE CENTER. ASPHALT CONCRETE PAVING OPERATIONS SHALL BE CARRIED OUT IN A MANNER THAT WILL NOT DISPLACE OR OTHERWISE DAMAGE THE COMPLETED WATERPROOFING.

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
DIVISION OF DESIGN AND CONSTRUCTION
BUREAU OF BRIDGES

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REINFORCING STEEL LIST, GENERAL NOTES, AND ESTIMATED QUANTITIES
BRIDGE NO. TRU-422-1590
OVER MOSQUITO CREEK
TRUMBULL COUNTY

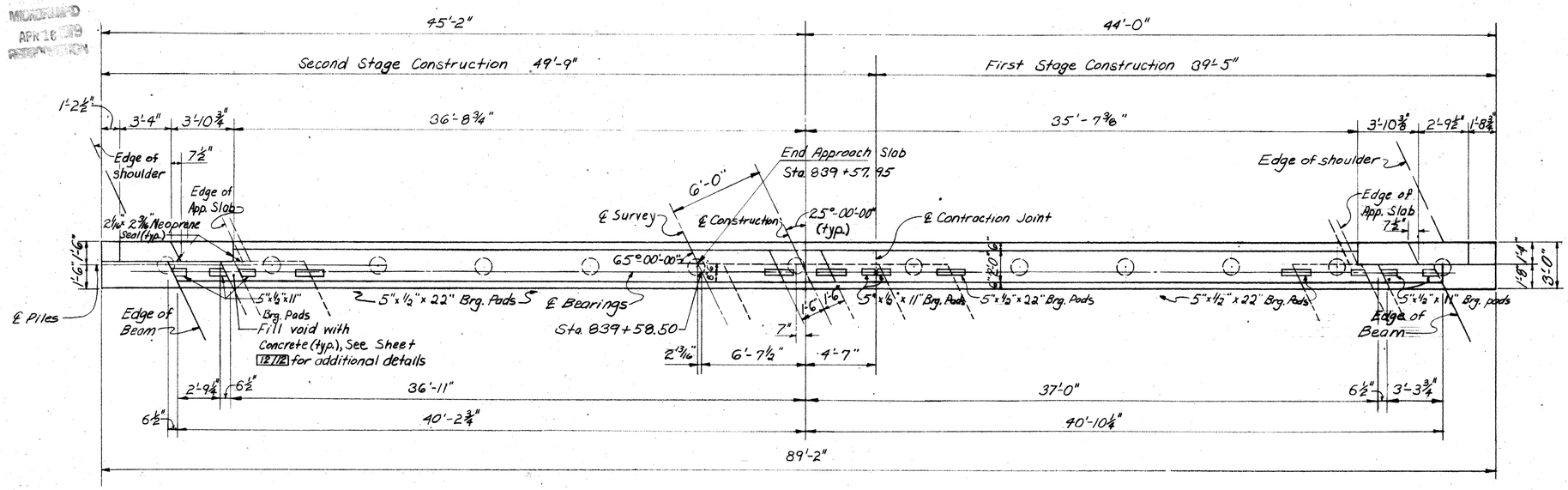
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
JAM	GFJ		9-28-71 WCK	BFG	9-30-71	

MICROFILMED APR 16 19[illegible] ABUTMENT

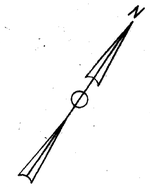
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

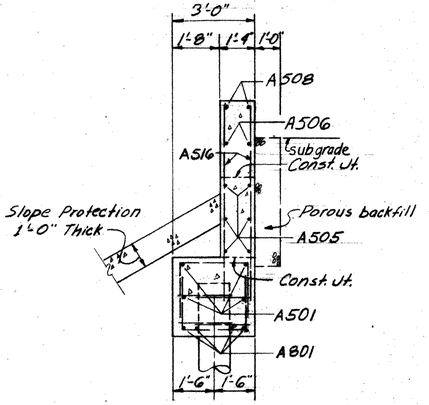
TRU-422-(14.70)(16.38)

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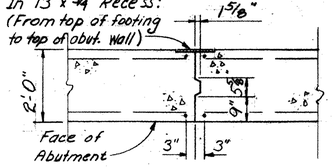


ABUTMENT PLAN



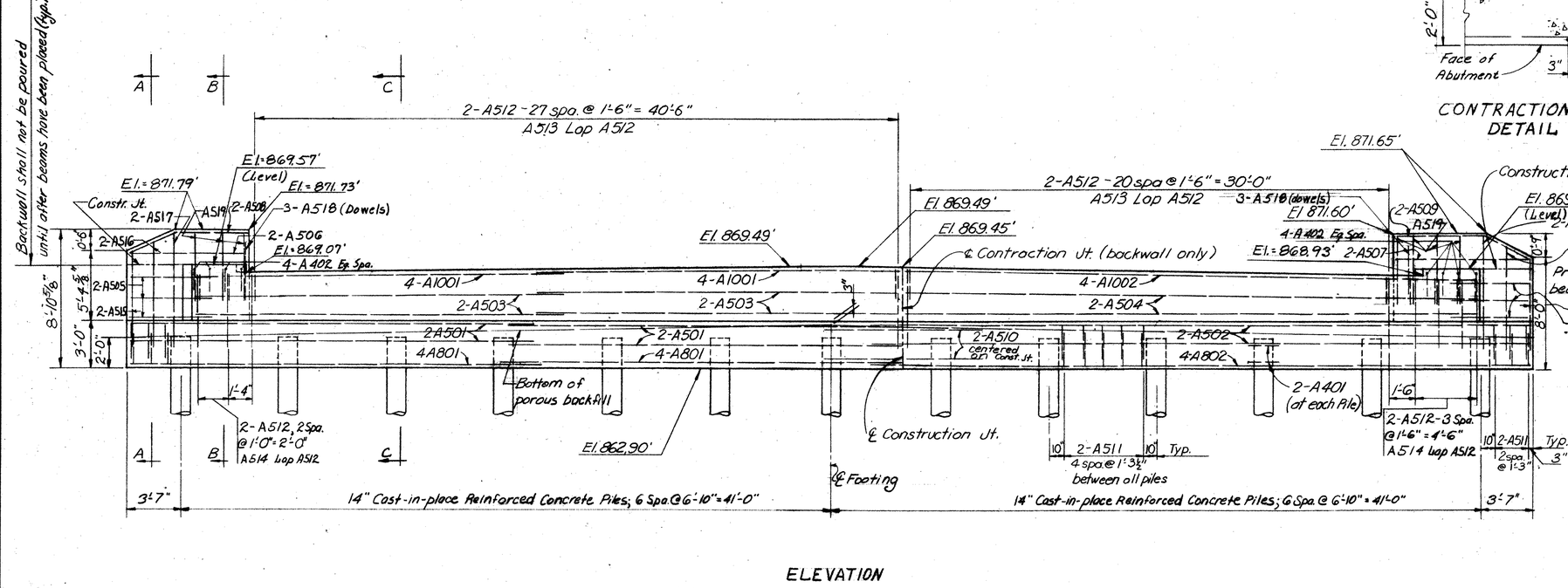


SECTION A-A

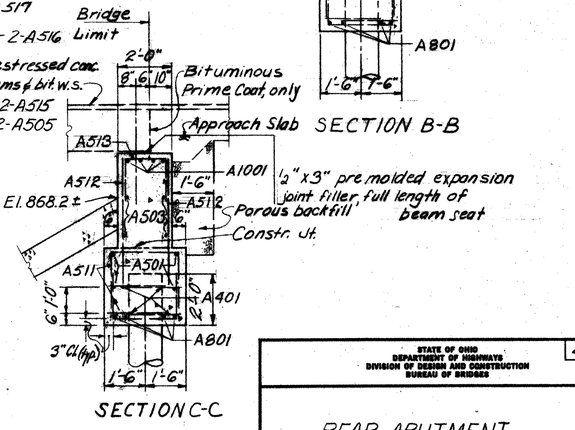


CONTRACTION JOINT DETAIL

SECTION B-B



ELEVATION



SECTION C-C

POROUS BACKFILL shall extend upward to the plane of the subgrade, and laterally to the surface of the embankment slopes.

BEAM ANCHOR AND BEARING DETAILS are shown on Superstructure Details Sheets 8/12 9/12

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
DIVISION OF DESIGN AND CONSTRUCTION
BUREAU OF BRIDGES

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REAR ABUTMENT

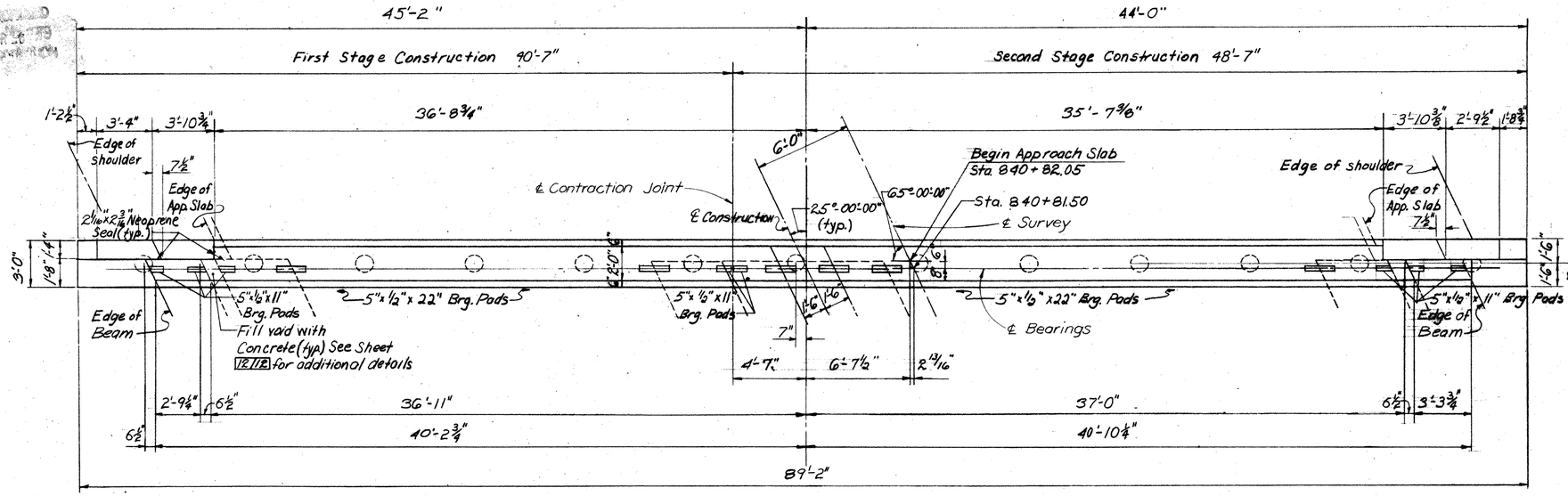
BRIDGE NO. TRU-422-1590
OVER MOSQUITO CREEK

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
J.A.M.	J.A.M.		W.C.K.	B.F.G.	9-30-71	

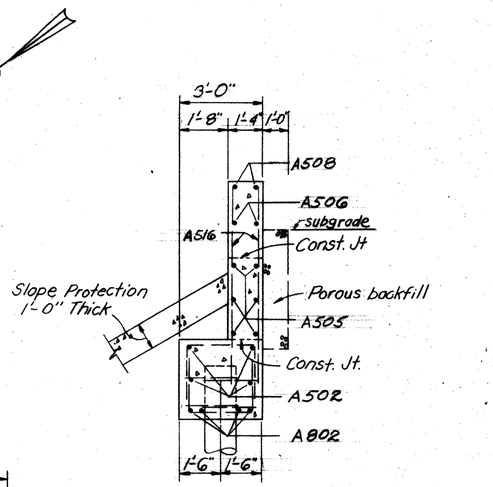
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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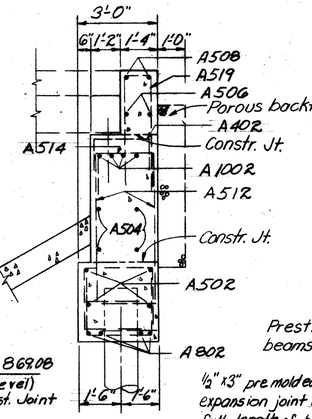
TRU-422-(14.70)(16.38)



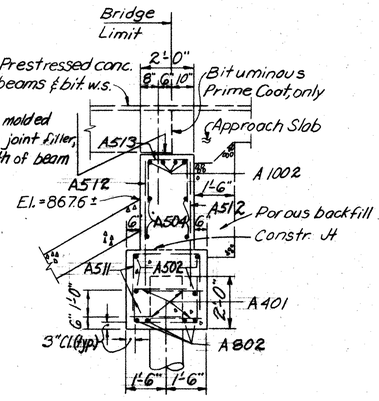
ABUTMENT PLAN



SECTION A-A

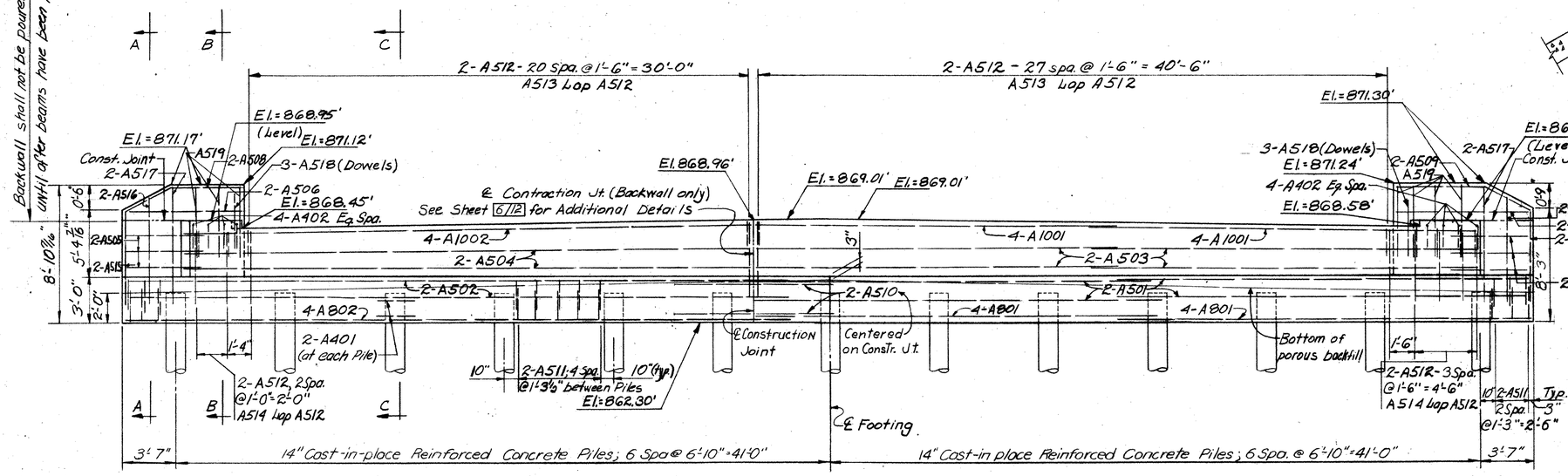


SECTION B-B



SECTION C-C

Backwall shall not be poured until after beams have been placed (typ.)



ELEVATION

POROUS BACKFILL shall extend upward to the plane of the subgrade, and laterally to the surface of the embankment slopes.

BEAM ANCHOR AND BEARING DETAILS are shown on Superstructure Details Sheets 8/12 & 9/12.

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
DIVISION OF DESIGN AND CONSTRUCTION
BUREAU OF BRIDGES

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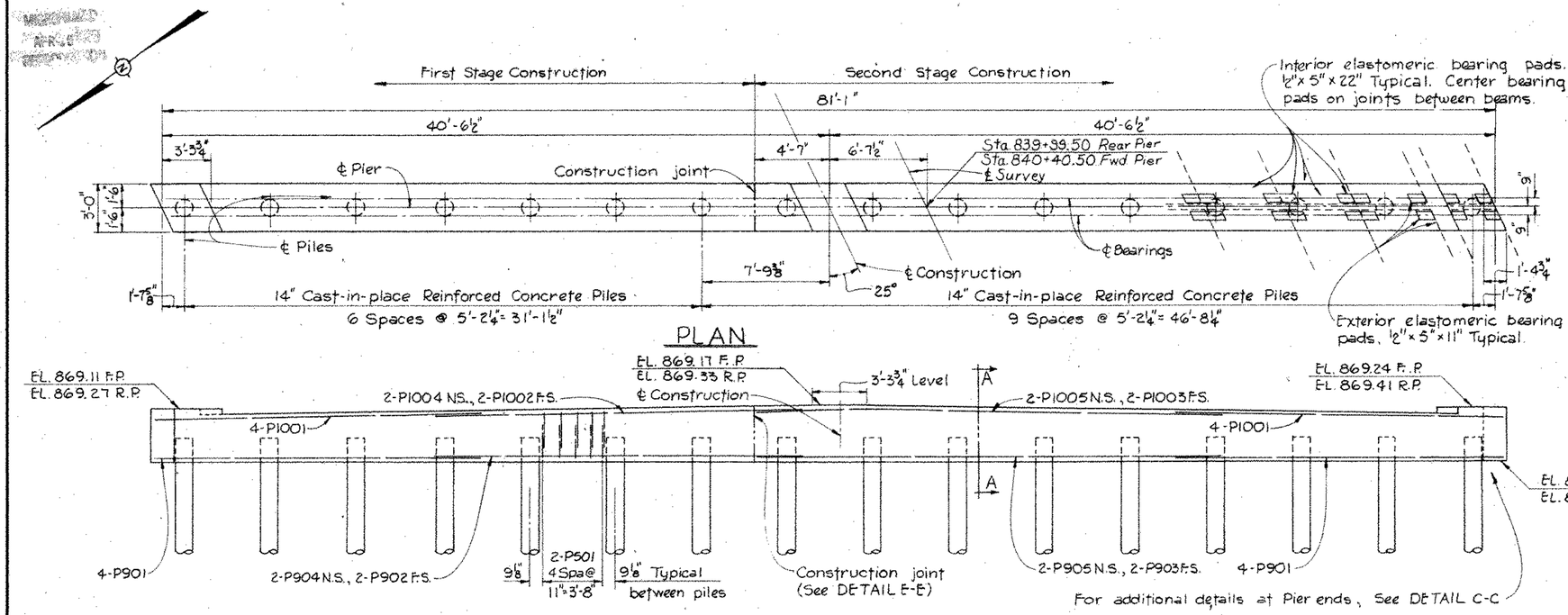
FORWARD ABUTMENT

BRIDGE NO. TRU-422-1590
OVER MOSQUITO CREEK

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
J.A.M.	T.G.C.		W.C.K.	B.F.G.	9-30-71	

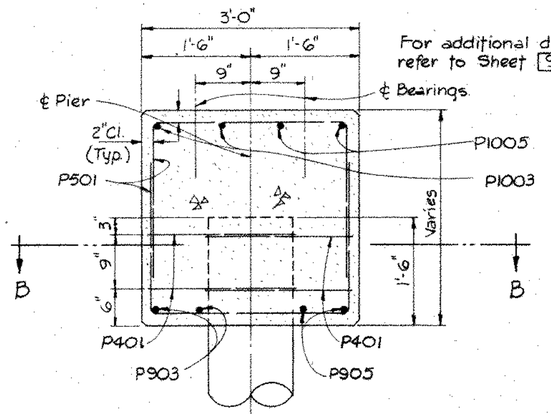
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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PLAN

ELEVATION

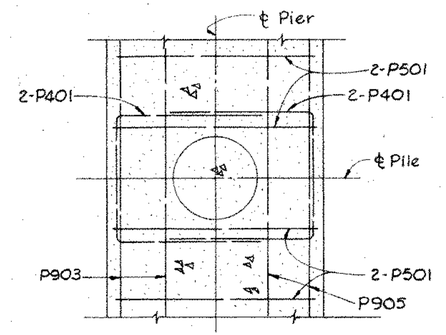


For additional details, refer to Sheet 9 / 12

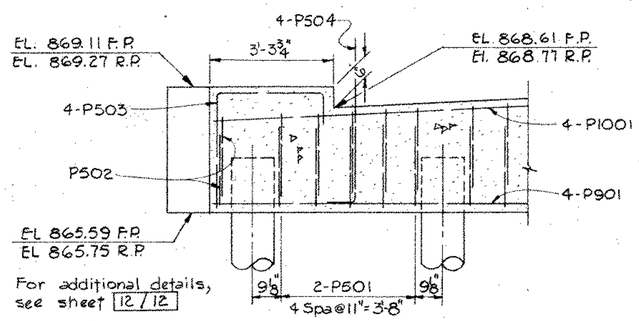
SECTION A-A

DETAIL C-C

DETAIL E-E

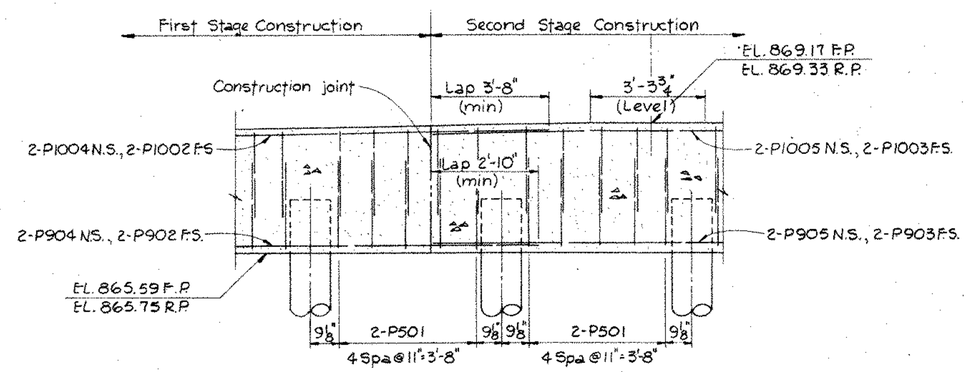


SECTION B-B



For additional details, see sheet 12 / 12

SECTION D-D



SECTION F-F

LEGEND:
- N.S. Denotes near side
- F.S. Denotes far side
- R.P. Denotes Rear Pier
- F.P. Denotes Forward Pier

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
DIVISION OF DESIGNS AND CONSTRUCTION
BUREAU OF BRIDGES

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PIER DETAILS

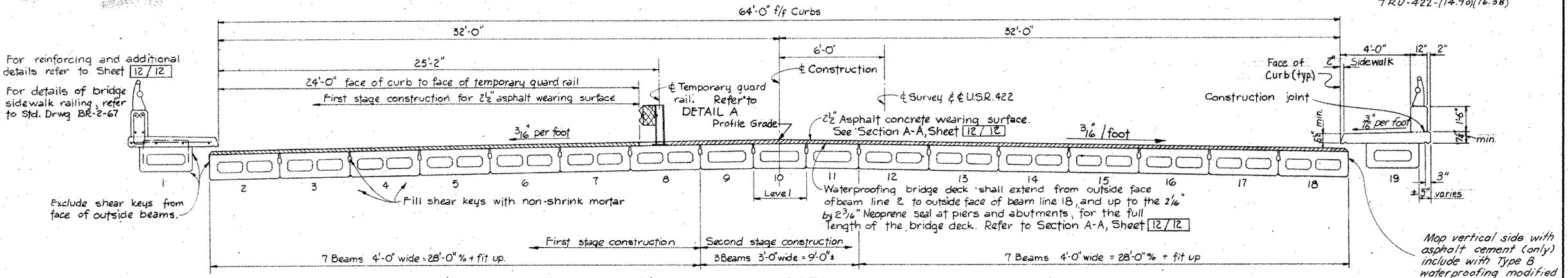
BRIDGE NO. TRU-422-1590
OVER MOSQUITO CREEK

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
JAM	B.E.B.		W.C.K.	B.F.G.	9-30-71	

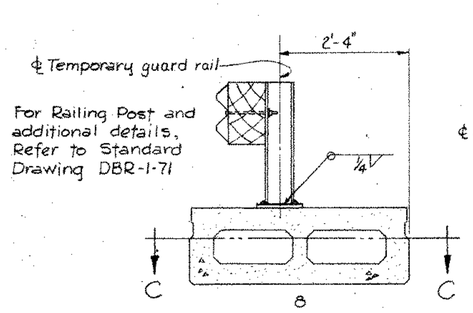
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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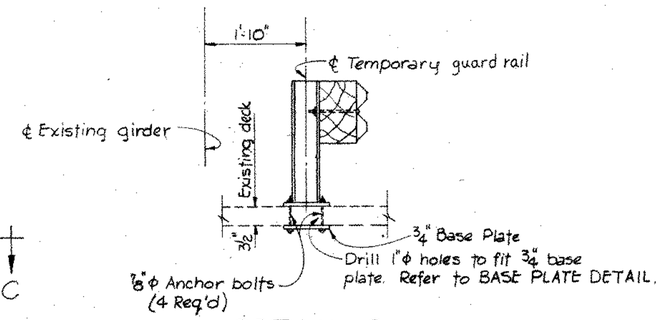
TRU-422-(14.70)(16.38)



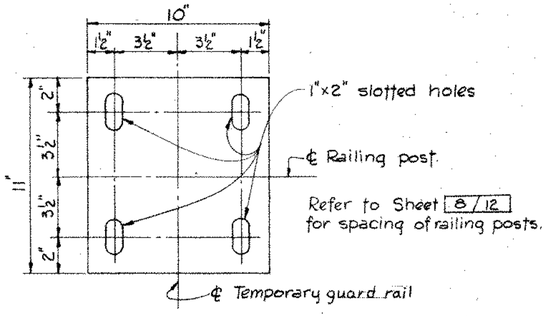
TYPICAL TRANSVERSE SECTION



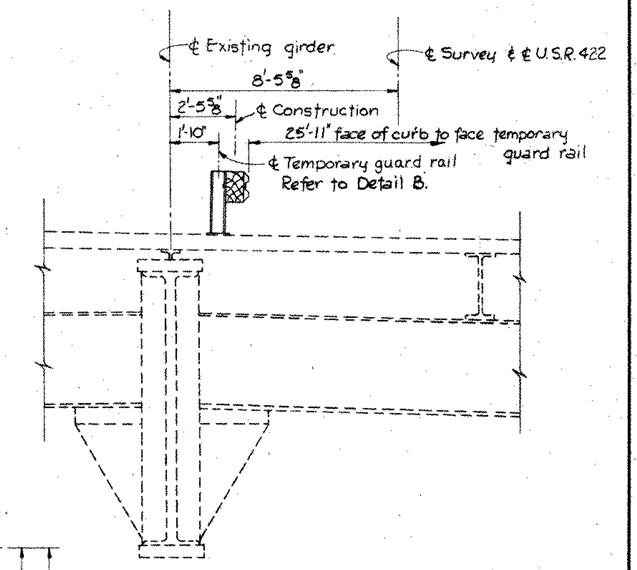
DETAIL A



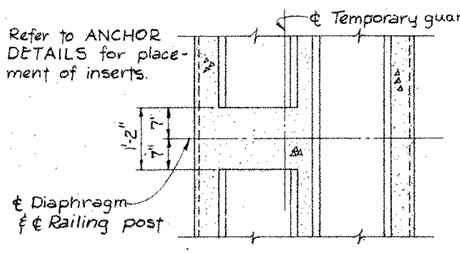
DETAIL B



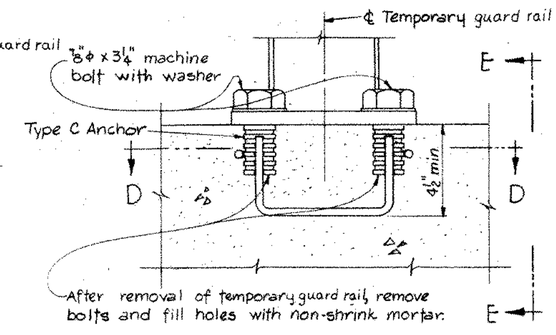
¾" BASE PLATE DETAIL



PART SECTION

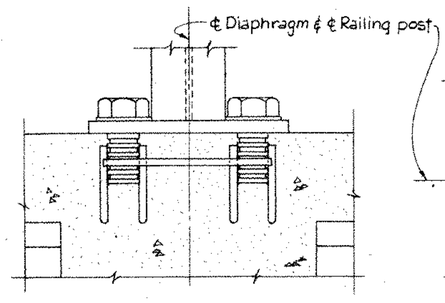


SECTION C-C

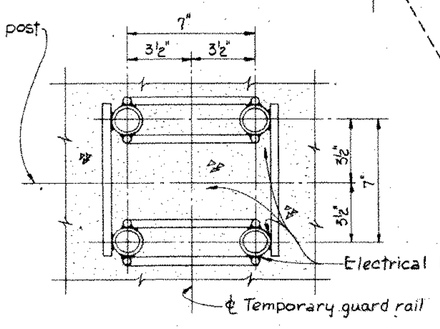


INSERT DETAILS

(Inserts for temporary guard rail anchors included with PBB 17-48 for payment).



VIEW E-E



SECTION D-D

ANCHOR DETAILS

Anchor inserts of a type different from that shown will be permitted if approved by the Director.

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
DIVISION OF DESIGN AND CONSTRUCTION
BUREAU OF BRIDGES

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SUPERSTRUCTURE DETAILS

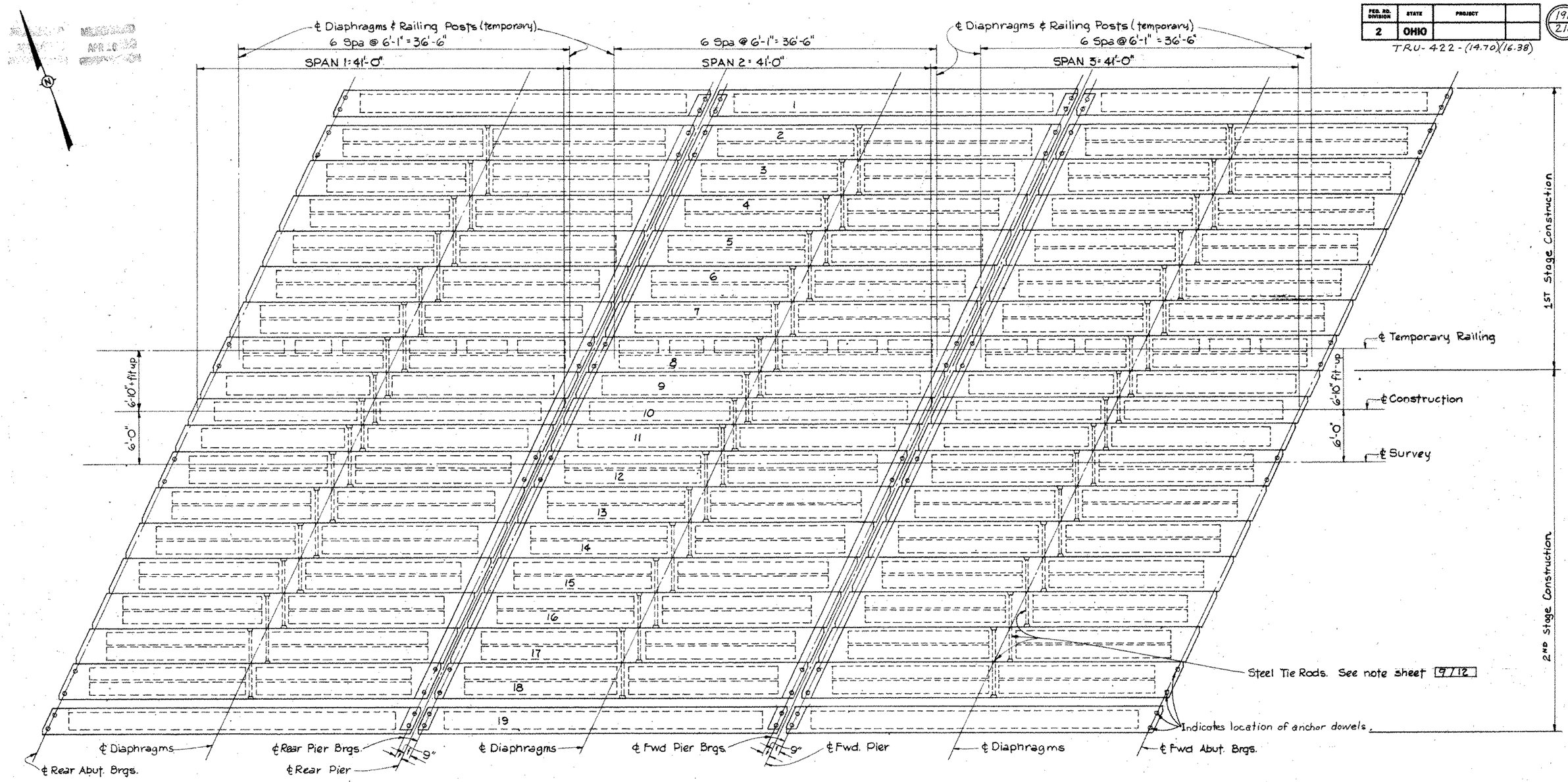
BRIDGE NO. TRU-422-1590
OVER MOSQUITO CREEK

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
JAM	BEB		WCK	BFG	9-30-71	

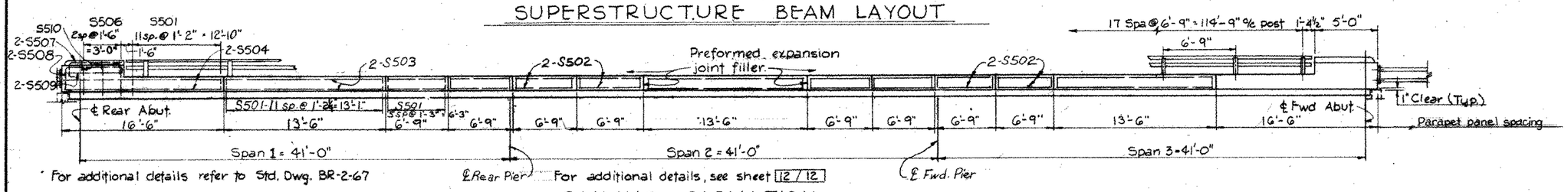
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

TRU-422-(14.70)(16.38)

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SUPERSTRUCTURE BEAM LAYOUT



* For additional details refer to Std. Dwg. BR-2-67

For additional details, see sheet 12/12

RAILING ELEVATION

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
DIVISION OF DESIGN AND CONSTRUCTION
BUREAU OF BRIDGES

8/12

SUPERSTRUCTURE DETAILS

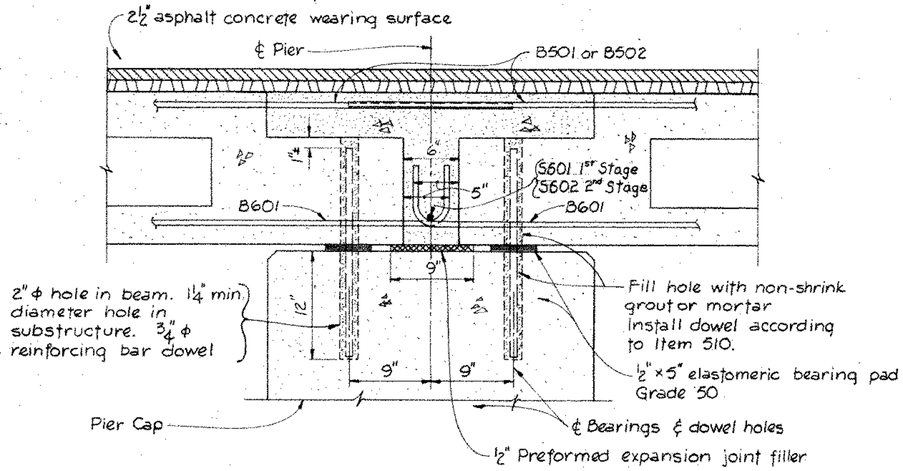
BRIDGE NO. TRU-422-1590
OVER MOSQUITO CREEK

DESIGNED	DRAWN	TRACED	CHECKED	REVISED DATE	REVISED
JAM	BEB		WCK	BFG 9-30-71	

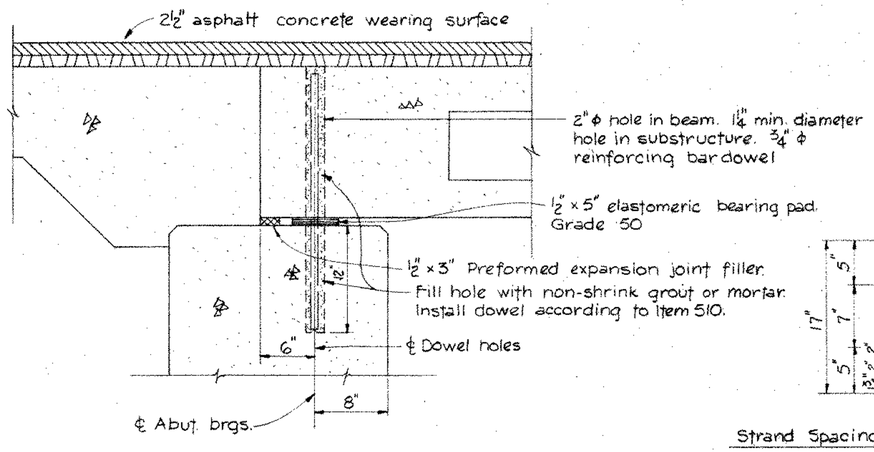
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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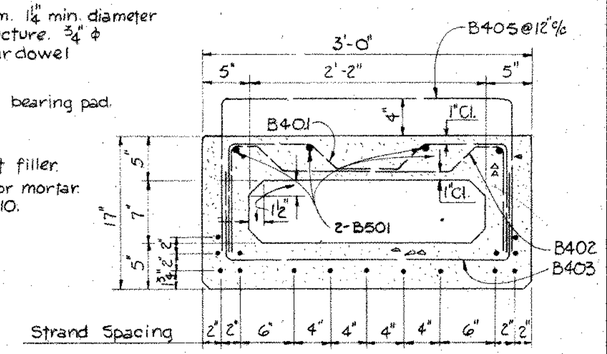
TRU-422-(14.70)(16.38)



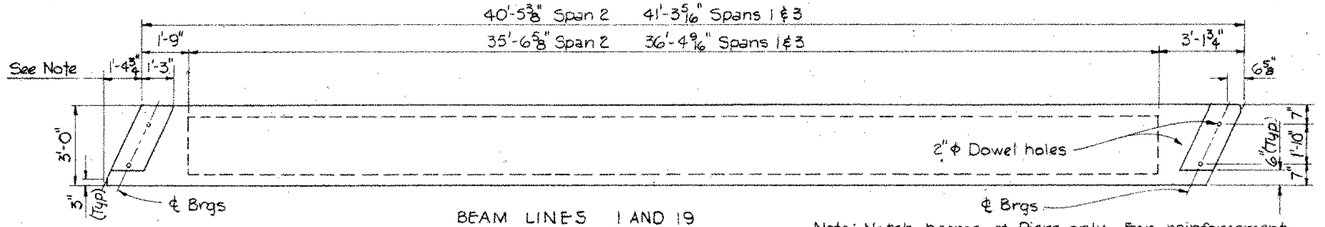
TYPICAL SECTION AT PIER



TYPICAL SECTION AT ABUTMENTS



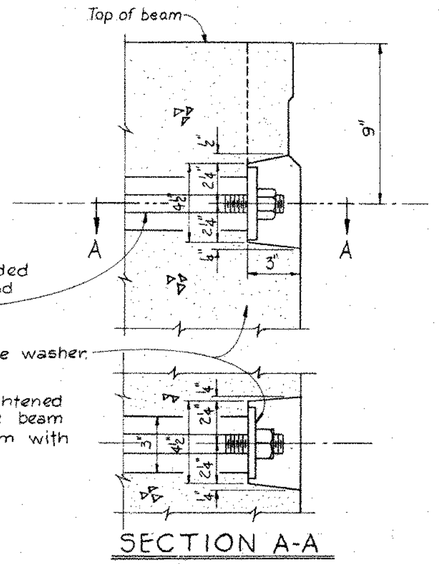
BEAM LINES 1 AND 19
PBB-36



BEAM LINES 1 AND 19
PLAN OF PBB-36

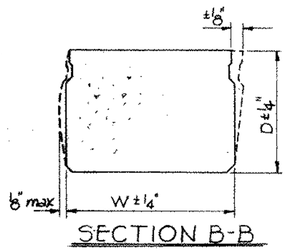
Note: Notch beams at Piers only. For reinforcement of beam ends at Abuts., see details sheet 11/12, for reinforcement at Piers, see details sheet 10/12

Access holes shall be provided as required to permit placement of washers and nuts unless the contractor elects to thread beams over rods projecting from beams previously placed. When used, holes shall be the same shape as recesses shown in Section A-A.



SECTION A-A

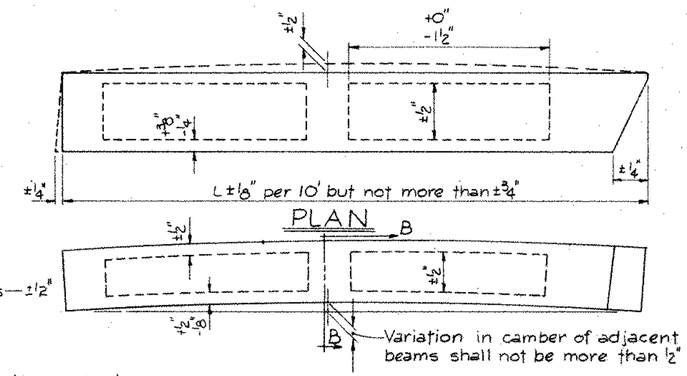
END DETAILS OF
TRANSVERSE TIE ROD ANCHORAGE



SECTION B-B

Additional Tolerances

Position of holes for anchor dowels and tie rods ——— ±½"
Position of lifting inserts ——— ±6"
Center of gravity of strand group ——— ±¼"
Position of stirrup bars ——— ±1"



Dimensional variation in excess of the tolerances shown may be cause for rejection of the member. Generally, the dimensions should be well within the tolerance limit.

DETAILS OF BEAM DIMENSIONAL TOLERANCES

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
DIVISION OF DESIGN AND CONSTRUCTION
BUREAU OF BRIDGES

9/12

SUPERSTRUCTURE DETAILS

BRIDGE NO. TRU-422-1590
OVER MOSQUITO CREEK

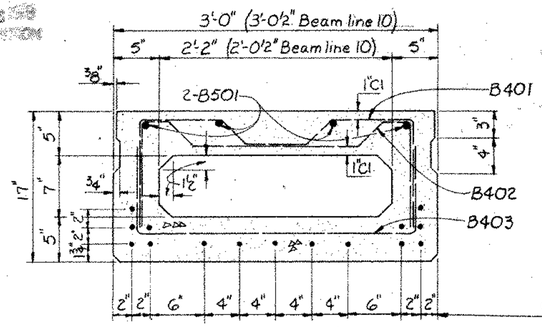
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
JAM	BEB		WCK	BFG	9-30-71	

RECEIVED
APR 16 '58
HIGHWAY DEPARTMENT

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

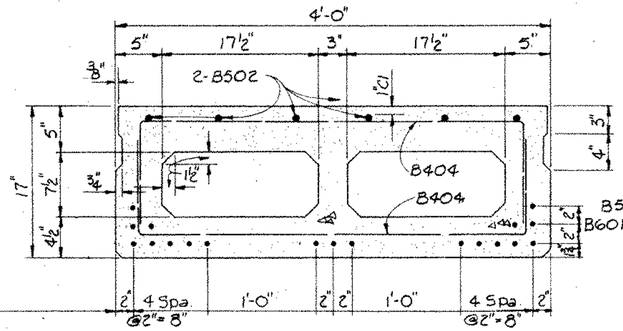
193
216

TRU-422-(14.70)(16.38)



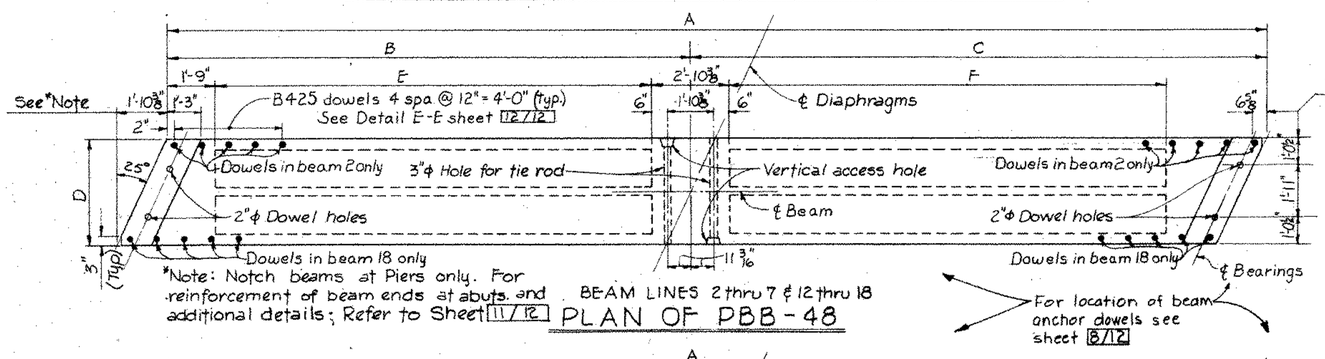
BEAM LINE 9, 10, & 11
PBB-36

{Strand Spacing}



BEAM LINES 2 thru 8 & 12 thru 18
PBB-48

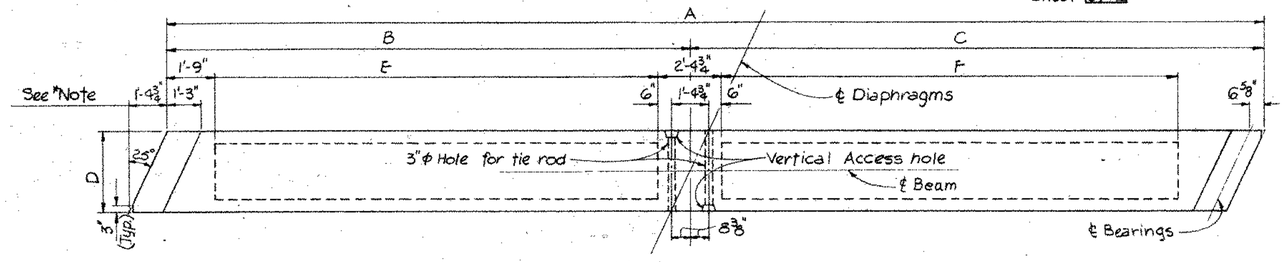
TYPICAL SECTION FOR PRESTRESSED BOX BEAMS



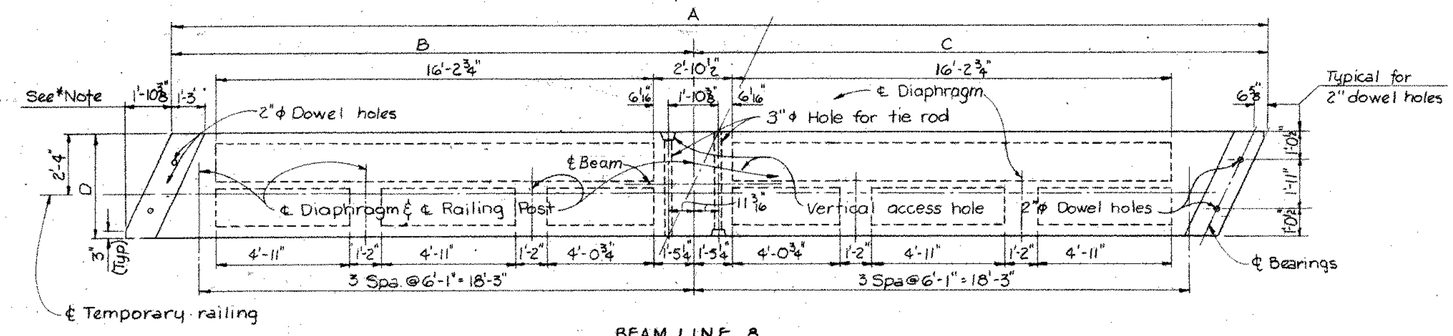
*Note: Notch beams at Piers only. For reinforcement of beam ends at abuts. and additional details; Refer to Sheet 11/12

BEAM LINES 2 thru 7 & 12 thru 18
PLAN OF PBB-48

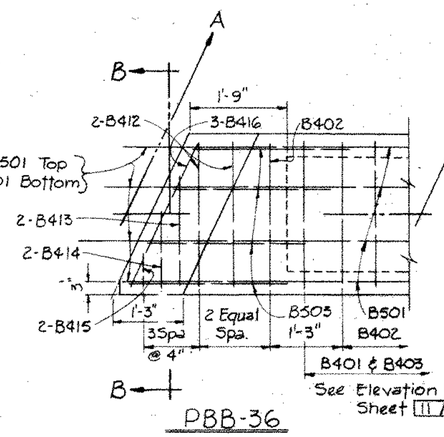
For location of beam anchor dowels see sheet 8/12



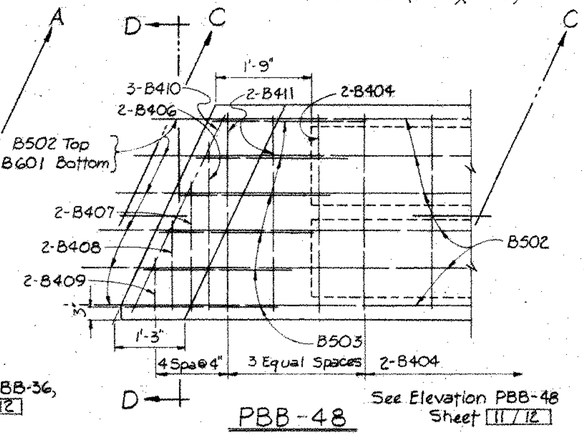
BEAM LINES 9, 10, & 11
PLAN OF PBB-36



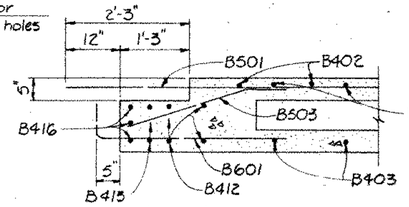
BEAM LINE 8
PLAN OF PBB-48



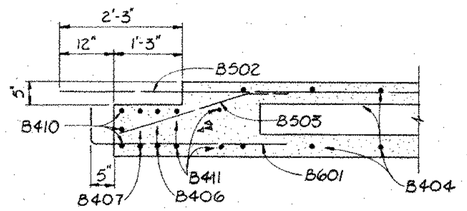
PBB-36



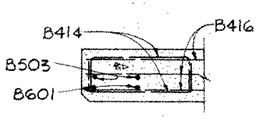
PBB-48



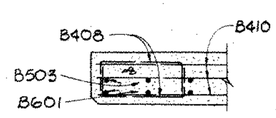
SECTION A-A



SECTION C-C



SECTION B-B



SECTION D-D

DETAILS AND REINFORCEMENT OF BEAM ENDS AT PIERS

TABLE OF DIMENSIONS

DIMENSION	PBB-48		PBB-36	
	SPAN 2	SPAN 1 & 3	SPAN 2	SPAN 1 & 3
A	40'-5 3/8"	41'-3 5/16"	40'-5 3/8"	41'-3 5/16"
B	19'-3½"	19'-8 7/16"	19'-6¼"	19'-11¼"
C	21'-1 7/8"	21'-6 7/8"	20'-11 7/8"	21'-4 1/16"
D	4'-0"	4'-0"	3'-0"	3'-0"
E	16'-1¼"	16'-6¼"	16'-6 7/8"	16'-11 7/8"
F	16'-1¼"	16'-6¼"	16'-6 7/8"	16'-11 7/8"

PRESTRESSED CONCRETE BOX BEAMS: MINIMUM CONCRETE STRENGTH AT 28 DAYS = 5500 PSI. MINIMUM CONCRETE STRENGTH AT RELEASE OF PRESTRESS = 4,000 PSI. PRESTRESSING STRANDS SHALL BE 1/2" UNCOATED SEVEN WIRE STRESS - RELIEVED STRAND, 268,000 PSI, WITH AN INITIAL TENSION OF 28,900 POUNDS PER STRAND.

BEAMS 2, 18 REQUIRE ONLY ONE DIAPHRAGM. SEE SHEET 8/12. THE DIAPHRAGM WHICH IS NOT REQUIRED MAY BE OMITTED.

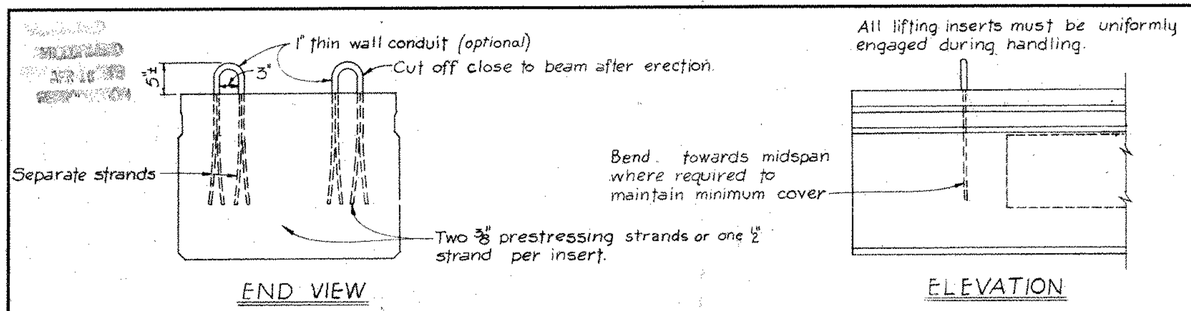
STATE OF OHIO
DEPARTMENT OF HIGHWAYS
DIVISION OF DESIGN AND CONSTRUCTION
BUREAU OF BRIDGES

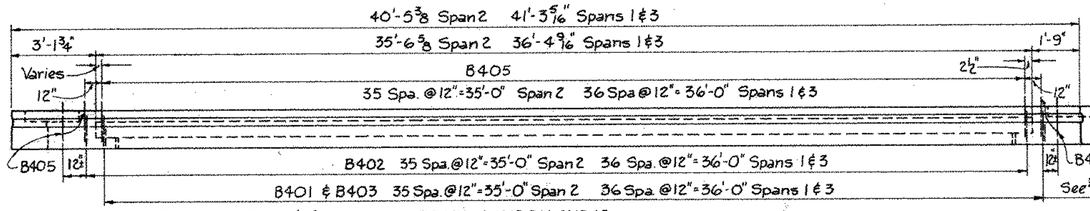
10/12

SUPERSTRUCTURE DETAILS

BRIDGE NO. TRU-422-1590
OVER MOSQUITO CREEK

DESIGNED	DRAWN	TRACED	CHECKED	REVISED	DATE	REVISED
JAM	BEB		WCK	BFG	9-30-71	

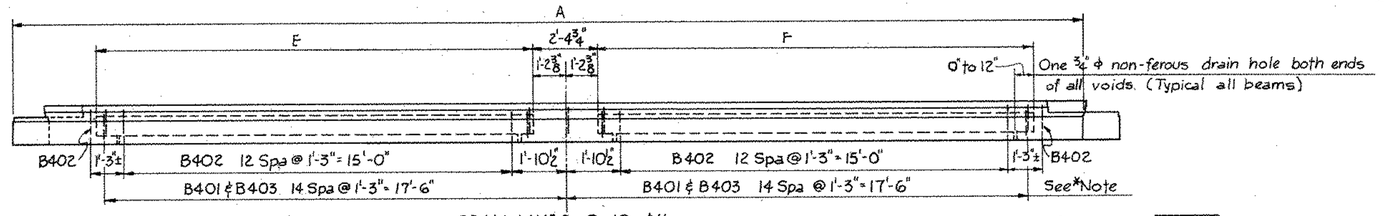




*Note: Notch beams at Piers only. For reinforcement at Abuts, see details, for reinforcement at Piers, see details, sheet 10/12

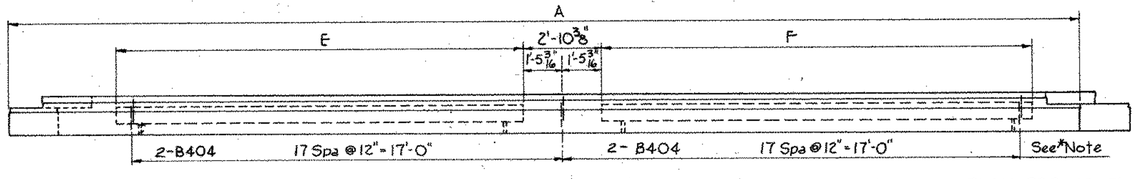
BEAM LINES 1 AND 19
ELEVATION PBB-36

For additional details see PLAN PBB-36, Sheet 9/12



BEAM LINES 9, 10, & 11
ELEVATION PBB-36

For additional details see PLAN PBB-36, Sheet 10/12



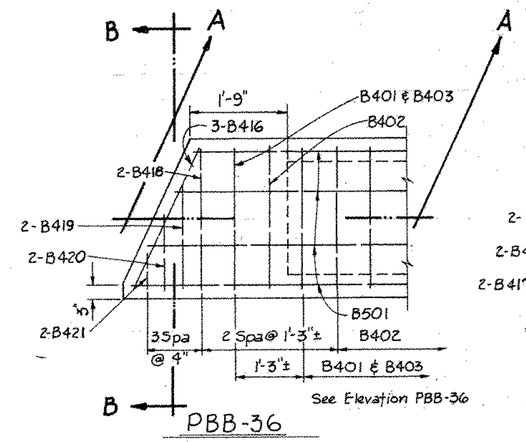
BEAM LINES 2 thru 8 & 12 thru 18
ELEVATION PBB-48

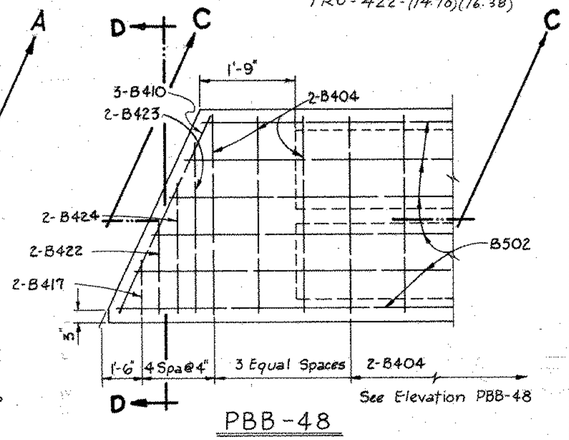
For additional details see PLAN PBB-48, Sheet 10/12

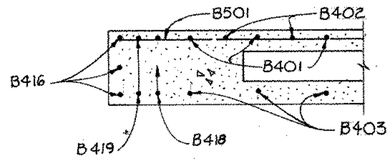
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

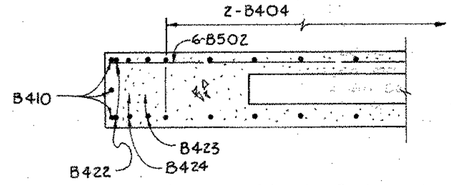
194/216

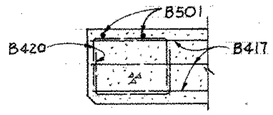
TRU-422-(14.70)(16.38)

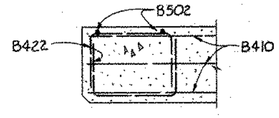












DETAILS AND REINFORCEMENT OF BEAM ENDS AT ABUTMENTS

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
DIVISION OF DESIGN AND CONSTRUCTION
BUREAU OF BRIDGES

11/12

SUPERSTRUCTURE DETAILS

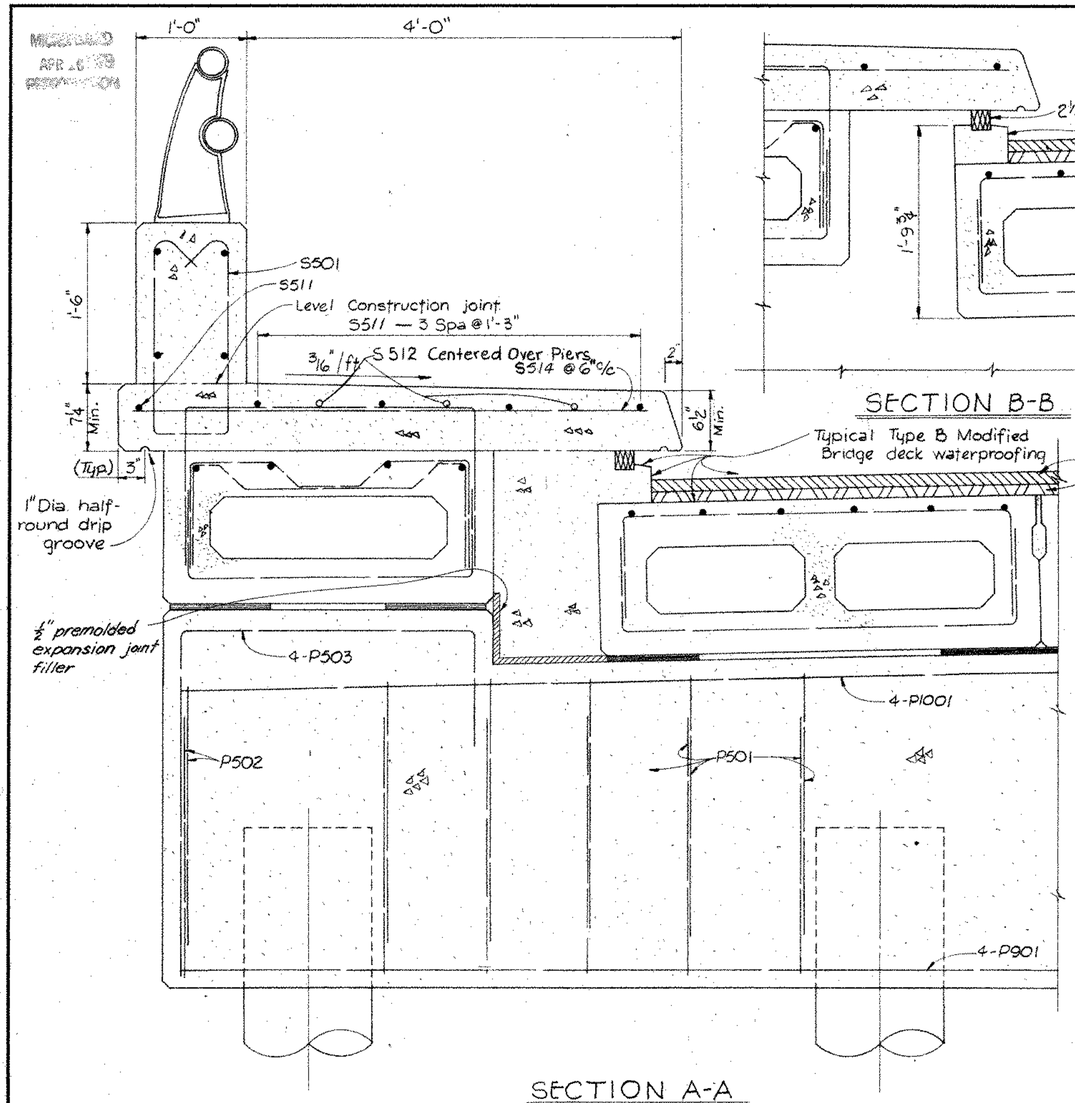
BRIDGE NO. TRU-422-1590
OVER MOSQUITO CREEK

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
JAM	B.E.B.		WCK	BFG	9-30-71	

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

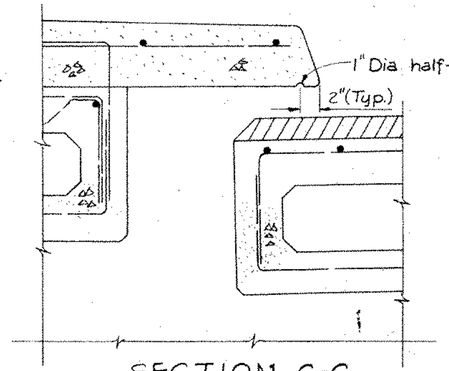
195/216

TRU-422-(14.70)(16.38)

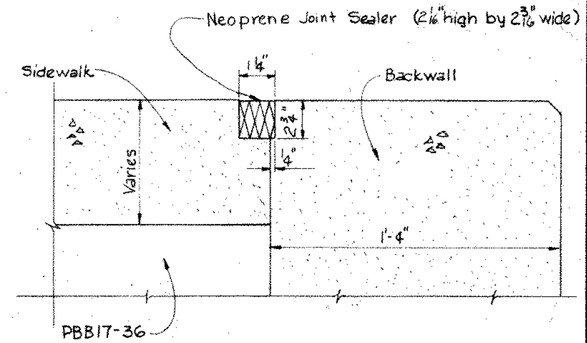


SECTION A-A

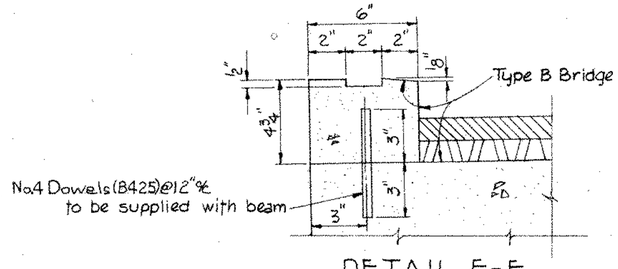
SECTION B-B



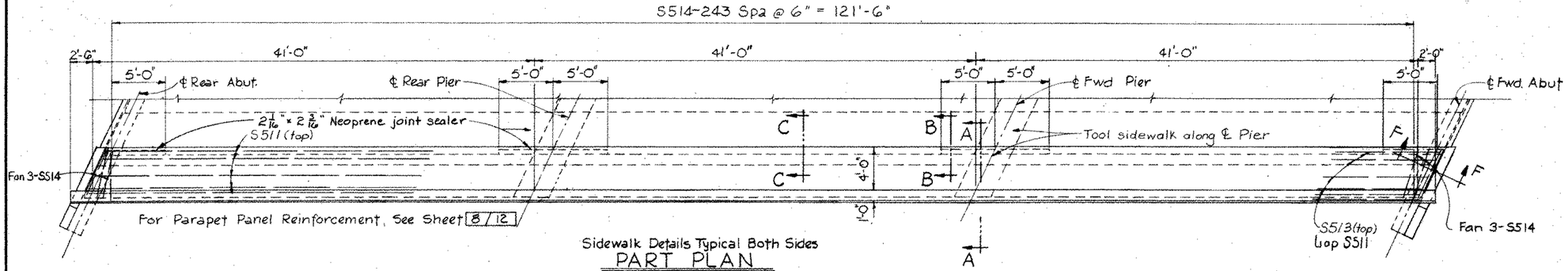
SECTION C-C



SECTION F-F



DETAIL E-E



Sidewalk Details Typical Both Sides

PART PLAN

Note: Neoprene joint sealer shall be accordance with 705.11.

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
DIVISION OF DESIGN AND CONSTRUCTION
BUREAU OF BRIDGES

12/12

SUPERSTRUCTURE DETAILS

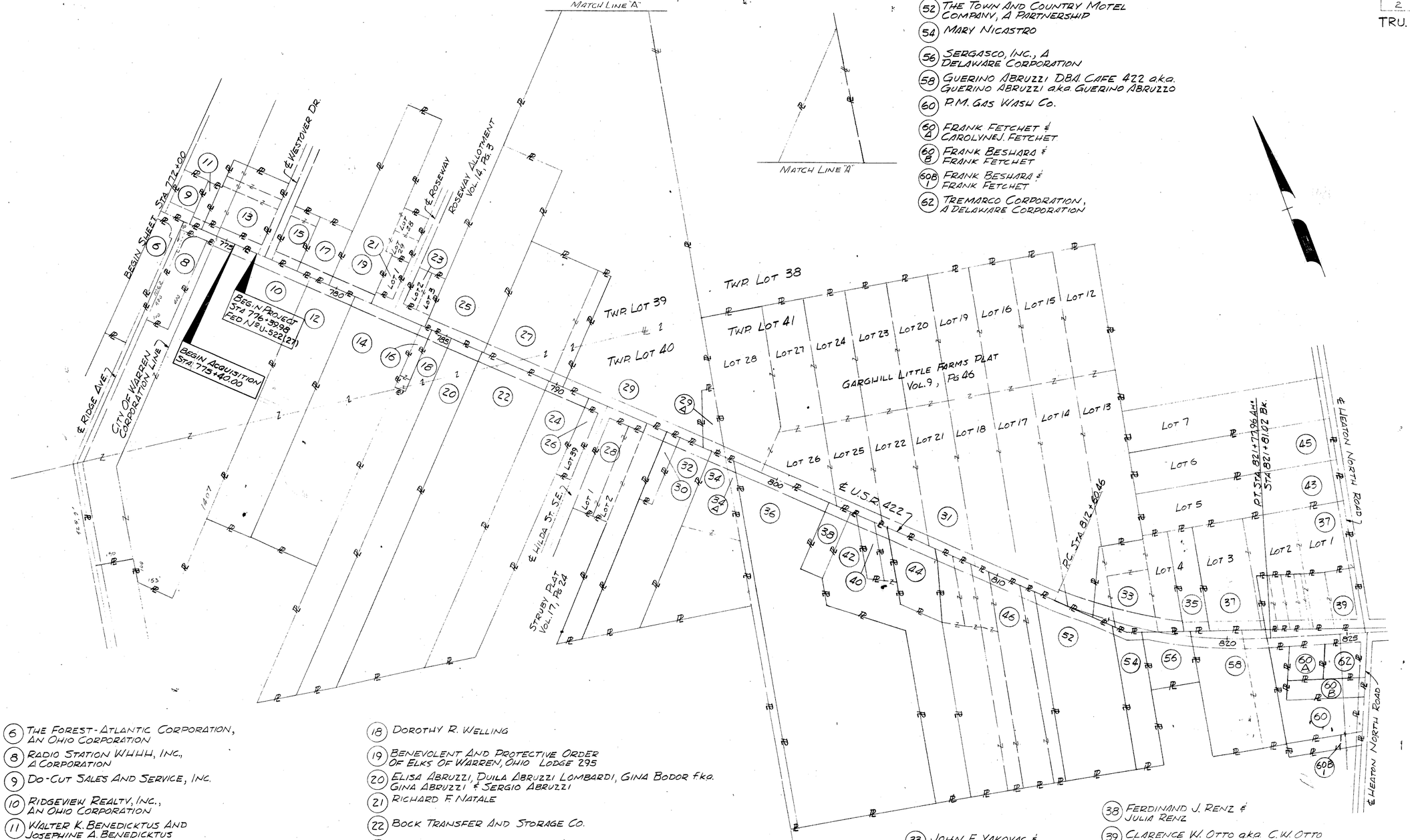
BRIDGE NO. TRU-422-1590
OVER MOSQUITO CREEK

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
JAM	BEB		WCK	BFG	9-30-71	

FED. RD DIVISION	STATE	PROJECT	
2	OHIO		

TRU.-422-14.67

2
22



(6) THE FOREST-ATLANTIC CORPORATION, AN OHIO CORPORATION

(8) RADIO STATION WHHH, INC., A CORPORATION

(9) DO-CUT SALES AND SERVICE, INC.

(10) RIDGEVIEW REALTY, INC., AN OHIO CORPORATION

(11) WALTER K. BENEDICKTUS AND JOSEPHINE A. BENEDICKTUS

(12) A & M DEVELOPMENT, INC.

(13) ROBERT C. LEWIS AND CAROLYN A. SIDDALL

(14) G. BRIAN SHEEHE AND ESTHER L. SHEEHE

(15) PAT FINELLI & MARY FINELLI, OWNERS MACK L. ROZZANO & FRANCES C. ROZZANO, HOLDERS OF LAND CONTRACT

(16) DANIEL MC GRAVEY & BERNICE MC GRAVEY

(17) JOHN A. GRIMA & JOSEPH N. GRIMA

(18) DOROTHY R. WELLING

(19) BENEVOLENT AND PROTECTIVE ORDER OF ELKS OF WARREN, OHIO LODGE 295

(20) ELISA ABRUZZI, DUILA ABRUZZI LOMBARDI, GINA BODOR f.k.a. GINA ABRUZZI & SERGIO ABRUZZI

(21) RICHARD F. NATALE

(22) BOCK TRANSFER AND STORAGE CO.

(23) DONALD J. FITCH

(24) AMERICO PESIGNE & ESTHER PESIGNE

(25) MOTOR EXPRESS, INC., AN OHIO CORPORATION

(26) WILLIAM HANLEY & JULES C. PASSELL A GENERAL PARTNERSHIP

(27) WAYNE C. GREENWOOD, JR.

(28) HILDA DEVELOPMENT AND REALTY CORPORATION, AN OHIO CORPORATION

(29) THE HARRY WINTER CONSTRUCTION CO., AN OHIO CORPORATION & ALBERT TUBER

(29A) MAX E. PEARLSTEIN, JANYCE B. PEARLSTEIN, AARON HANK & EMIL HANK

(30) RAYMOND GERALD HARDMAN & MARY T. HARDMAN

(31) THE PINEVIEW MEMORIAL PARK ASSOCIATION, A CORPORATION

(32) JOSEPH SARKIES

(33) JOHN E. YAKOVAC & JAMES R. SODA

(34) JOHN IACOZILI & MARY IACOZILI

(34A) ANTHONY PARISI, SARAH PARISI & F.J. STRUB

(35) CHARLES SFERRA, SAMUEL PETKOVICH & SAMUEL D'AGATI

(36) JOSEPH J. COMPARATO

(37) J.J.D. INC., AN OHIO CORPORATION

(38) FERDINAND J. RENZ & JULIA RENZ

(39) CLARENCE W. OTTO a.k.a. C.W. OTTO & MARY C. OTTO

(40) ANGELO HAIDARIS, JOHN BELLAS & GUS KOUPAS

(42) SARKIES ENTERPRISES, INC., AN OHIO CORPORATION

(43) ANTHONY CIMINERO & NELLIE CIMINERO

(44) MARK FIGETAKIS

(45) MYRON E. DAUM & FERN DAUM

(46) CESIDIA FIORE ET. AL.

(52) THE TOWN AND COUNTRY MOTEL COMPANY, A PARTNERSHIP

(54) MARY NICASTRO

(56) SERGASCO, INC., A DELAWARE CORPORATION

(58) GUERINO ABRUZZI DBA CAFE 422 a.k.a. GUERINO ABRUZZI a.k.a. GUERINO ABRUZZO

(60) P.M. GAS WASH CO.

(60A) FRANK FETCHET & CAROLYNE J. FETCHET

(60B) FRANK BESHARA & FRANK FETCHET

(60B1) FRANK BESHARA & FRANK FETCHET

(62) TREMARCO CORPORATION, A DELAWARE CORPORATION

REVISED NAME PARCEL 42 & 60A AND REVISED BEGIN PROJECT & ACQUISITION FLAGS 7-28-71

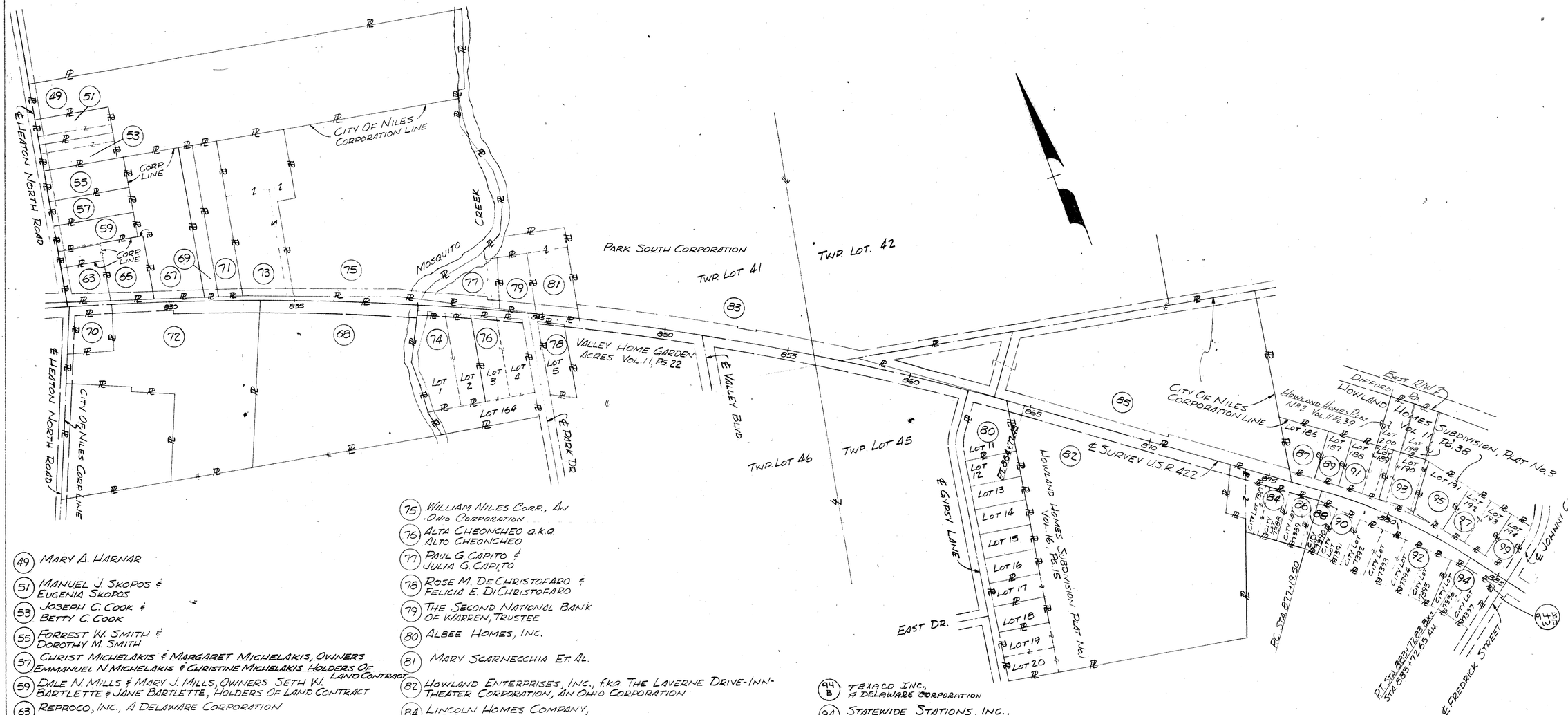
SCALE IN FEET
100 50 0 100 200 400

PROPERTY MAP
SHEET 1 OF 3

	FED. RD. DIVISION	STATE	PROJECT	
	2	OHIO		

TRU-422-14.67

3/22



(49) MARY A. HARNAR

(51) MANUEL J. SKOPOS & EUGENIA SKOPOS

(53) JOSEPH C. COOK & BETTY C. COOK

(55) FORREST W. SMITH & DOROTHY M. SMITH

(57) CHRIST MICHELAKIS & MARGARET MICHELAKIS, OWNERS EMMANUEL N. MICHELAKIS & CHRISTINE MICHELAKIS, HOLDERS OF LAND CONTRACT

(59) DALE N. MILLS & MARY J. MILLS, OWNERS SETH W. BARTLETTE & JANE BARTLETTE, HOLDERS OF LAND CONTRACT

(63) REPROCO, INC., A DELAWARE CORPORATION

(65) HARRY S. KEFFALOS & MARRY KEFFALOS

(67) CERNI MOTOR SALES, INC.

(68) THIRD WARREN CORP, AN OHIO CORPORATION

(69) JOHN CERNI & CHARLES CERNI

(70) THE SUN OIL COMPANY OF PENNSYLVANIA, A PENNSYLVANIA CORPORATION

(71) THOMAS G. HAIDARIS, GEORGE G. HAIDARIS & ANGELO HAIDARIS

(72) NILES ASSOCIATES, AN OHIO LIMITED PARTNERSHIP

(73) RAYMOND E. LONSWAY

(74) HAROLD E. HAUGHTON & LILLIAN R. HAUGHTON

(75) WILLIAM NILES CORP., AN OHIO CORPORATION

(76) ALTA CHEONCHEO a.k.a. ALTO CHEONCHEO

(77) PAUL G. CAPITO & JULIA G. CAPITO

(78) ROSE M. DE CHRISTOFARO & FELICIA E. DICHRISTOFARO

(79) THE SECOND NATIONAL BANK OF WARREN, TRUSTEE

(80) ALBEE HOMES, INC.

(81) MARY SCARNECCHIA ET. AL.

(82) HOWLAND ENTERPRISES, INC., fka. THE LAVERNE DRIVE-INN-THEATER CORPORATION, AN OHIO CORPORATION

(84) LINCOLN HOMES COMPANY, A PENNSYLVANIA CORPORATION

(85) ROMAR, INC.

(86) CHARLES P. LAMONGE & THOMAS J. MATASH

(87) CARMEN DELLATRECCHIA

(88) TRUMBULL INVESTMENT CO., INC., AN OHIO CORPORATION

(89) JAMES BERNARD, JR.

(90) RICHARD J. SKIFFEY & ROSE RAE SKIFFEY

(91) TRUMBULL NEW THEATRE, INC.

(92) FRED C. MORRIS & CLYDE H. FISHER

(93) JOSEPH A. GILMOUR

(94B) TEXACO INC., A DELAWARE CORPORATION

(94) STATEWIDE STATIONS, INC., A DELAWARE CORPORATION

(95) THEODORE L. SWARTZ & MARGARET L. SWARTZ

(97) ESTHER D. LEVY

(99) ELIZABETH JONES

REV. NAME PCL 75 5-8-73
ADDED 94WD 5-28-72
REVISED NAME PCL 70 3-30-72
REVISED NAME PCL. 57 11-22-71
REVISED NAME PARCEL 53 - 9-29-71
REVISED NAME PARCEL 55 7-28-71
REVISED RS PCL 91-WD 4-23-73

SCALE IN FEET

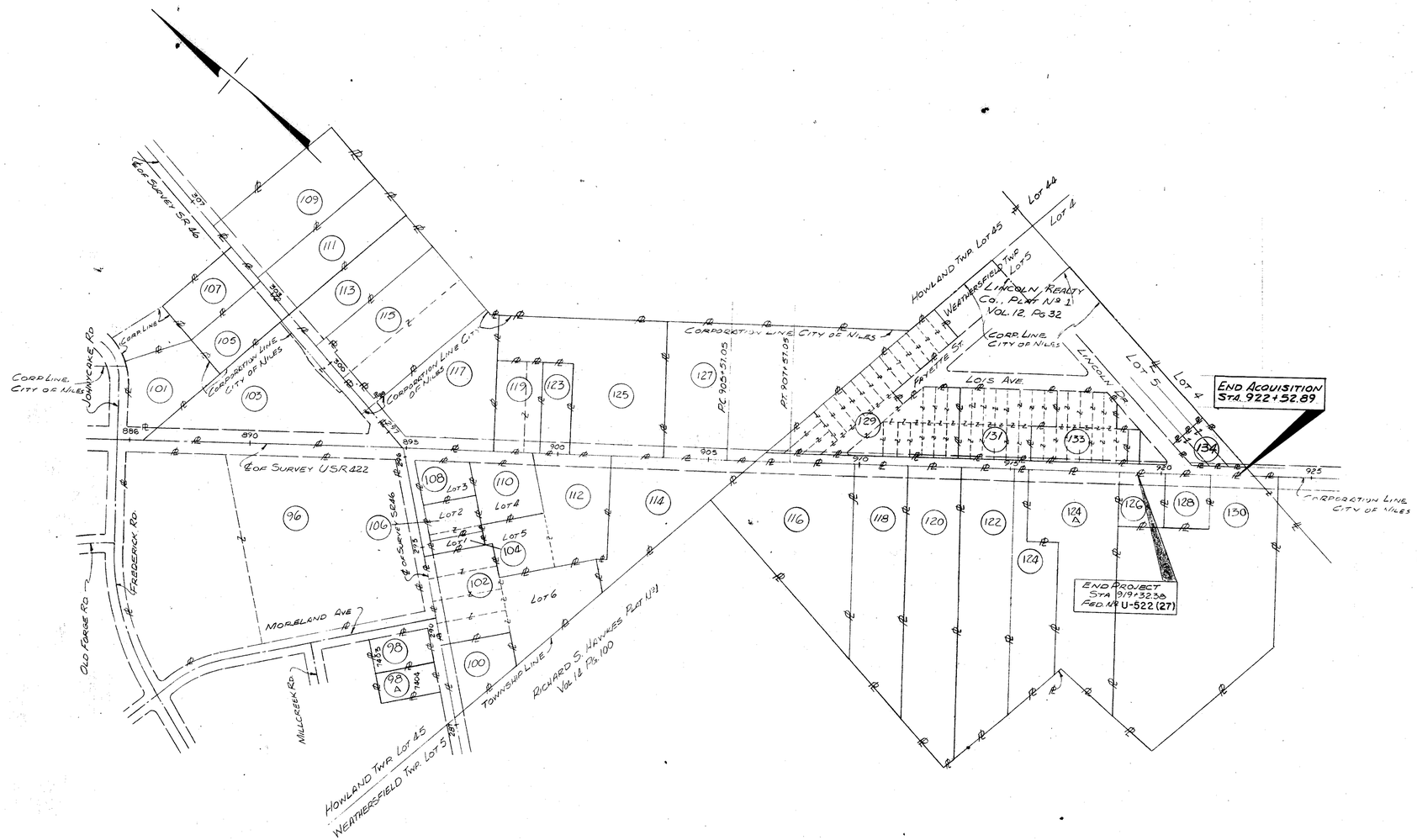
100 50 0 200 400

PROPERTY MAP
SHEET 2 OF 3

	FED. RD. DIVISION	STATE	PROJECT	
	2	OHIO		

TRU 422-1467

4
22



(96) C.R. PROPERTIES, INC., AN OHIO CORPORATION

(98) KHEVA T. GHISEA aka. KHEVA TANASE GHISEA

(98A) RONALD E. LEONARD & JANE E. LEONARD

(100) JOHN KOVACS & HELEN M. KOVACS

(101) SHANNON GROUP, AN OHIO PARTNERSHIP

(102) HERSCHEL H. BUCHANAN

(103) LULA GENTITHES

(104) CITY OF NILES, OHIO

(105) CHARLE H. BENDIG & MARJORIE A. BENDIG

(106) RICHARD S. HAWKES

(107) FRED H. LAW

(108) THE STANDARD OIL COMPANY AN OHIO CORPORATION

(109) SALLY E. SUDA

(110) THE I.E.R. COMPANY, AN OHIO CORPORATION

(111) SALLY J. TENNEY

(112) THE NILES-WARREN MOTOR LODGE, INC. AN OHIO CORPORATION

(113) ROSARIO BASILE

(114) PAYLESS STATIONS, INC., A KENTUCKY CORPORATION

(115) LAWRENCE W. JOLLEY

(116) M. & M. MOTELS, INCORPORATED, AN OHIO CORPORATION

(117) THE COMPARATO REALTY COMPANY

(118) GEORGE W. GALES & EDITH M. GALES

(119) FRANKLYN REALTY COMPANY, AN OHIO CORPORATION

(120) JULIA A. HOWE

(122) EUGENE B. KEHN

(123) Z.R. WEST, INC., A DELAWARE CORPORATION

(124) TONY A. MARR & FANNIE M. MARR

(124A) TONY MARR, PAUL MARR & ROCCO CONSTANTION

(125) PAUL A. GUARNIERI & BERNARD W. ROSENBERG

(126) LOIS DELUCIA

(127) HOLLIDAY INN WARREN-NILES, OHIO, INC. AN OHIO CORPORATION

(128) FULLY R. SPAIN

(129) RICHARD F. ALBERINI aka RICHARD ALBERINI & GILDA R. ALBERINI aka GILDA ROSE ALBERINI

(130) GREEN ACRES, INC.

(131) ANDREW P. MALLIN & MARGARET W. MALLIN

(133) MICHAEL LESTER aka MICHAEL E. LESTER & CONNA A. LESTER FKA CONNA NAN SCHULTZ

(134) JOHN SLIWINSKI ET. AL.

SCALE IN FEET
200 100 0 200 400

PROPERTY MAP
SHEET 3 OF 3

SUMMARY OF ADDITIONAL RIGHT OF WAY REQUIRED

FEDERAL PROJECT NUMBERS:
"F" (PRIMARY) = F-522(27)
"T" (TOPICS) = T-4005(6)

STATE JOB NO.	FED. RD. DIVISION	STATE	PROJECT
	2	OHIO	F-522(27) T-4005(6)

TRU.-422-14.67

5/22

TOTAL NO. OWNERS- 94 TOTAL NO. COMPLETE TAKES- 0 TOTAL OWNERS WITH STRUCTURES INVOLVED- 0

PARCEL NO.	OWNER	DEED RECORD BOOK	DEED RECORD PAGE	DEED RECORD DATE	DEED AREA	TOTAL PRO	GROSS TAKE	PRO IN TAKE	NET TAKE	NET RES. LT.	NET RES. RT.	BLDG'S TO BE ACQ'D	SHEET No.	TYPE FUNDS	REMARKS
1 To 5	NOT USED														
6	THE FOREST-ATLANTIC CORPORATION, AN OHIO CORPORATION	744	698		156,629 S.F.	7,218 S.F.	NO TAKE	—	NO TAKE				14		
7	NOT USED														
8	RADIO STATION WHHH, INC., A CORPORATION	791	1143		40,000 S.F.	1,198 S.F.	NO TAKE	—	NO TAKE				14		
9	DO-CUT SALES AND SERVICE, INC.	909	677		21,780 S.F.	2,146 S.F.	NO TAKE	—	NO TAKE				14		
10	RIDGEVIEW REALTY, INC., AN OHIO	748	813		16.53 Ac.	0.39 Ac.	0.01 Ac (255 S.F.)	—	0.01 Ac (255 S.F.)	—	16.13 Ac.	No	14		
10-T	CORPORATION						0.10 Ac.	—	0.10 Ac.				14		DRIVE AND GRADING
11	WALTER K. BENEDICKTUS AND JOSEPHINE A. BENEDICKTUS	813	616		10,634 S.F.	1,928 S.F.							14		
12-T	A. & M. DEVELOPMENT, INC.	881	344		5.00 Ac.	0.18 Ac.	0.02 Ac.	—	0.02 Ac.	—	4.82 Ac.	No	14		GRADING
13-S	ROBERT C. LEWIS & CAROLYN A. SIDDALL	751	481		80,289 S.F.	7,568 S.F.	174 S.F.	—	174 S.F.			No	14	FUND-F	SEWER
13-T							350 S.F.	—	350 S.F.				14		DRIVE
14-T	G. BRIAN SHEEHE AND ESTHER L. SHEEHE	876	905		7.50 Ac.	0.28 Ac.	0.04 Ac.	—	0.04 Ac.	—	7.22 Ac.	No	14		DRIVE AND GRADING
14-T-1							0.01 Ac. (150 S.F.)		0.01 Ac. (150 S.F.)				14		DRIVE
15	PAT FINELLI AND MARY FINELLI, OWNERS; MACK L. ROZZANO AND FRANCES C. ROZZANO, HOLDERS OF LAND CONTRACT	813	802		0.64 Ac.	0.10 Ac.	NO TAKE		NO TAKE				14		DRIVE. (L.C. VOL. 904, PG. 382)
													14		DRIVE
16-WA	DANIEL McGARVEY AND BERNICE McGARVEY	378 367	278 573		0.28 Ac.	0.04 Ac.							14		DRIVE
17-WA	JOHN A. GRIMA AND JOSEPH N. GRIMA	859	1134		0.82 Ac.	0.13 Ac.							14		DRIVE
18-WA	DOROTHY R. WELLING	400	31		4.72 Ac.	0.08 Ac.							14		DRIVE
19-WA	BENEVOLENT AND PROTECTIVE ORDER OF ELKS OF WARREN, OHIO LODGE 295	"SEE REMARKS"			3.61 Ac.	0.17 Ac.							14		DRIVE VOL. 905, PG. 930; VOL. 836, PG. 282; VOL. 802, PG. 949; VOL. 791, PG. 653
															DEED AREA INCLUDES SUB-LOTS 28 & 29 OF THE ROSEWAY ALLOTMENT, VOL. 14, PG. 3
20 PR	ELISA ABRUZZI, DUILA ABRUZZI LOMBARDI,	805	158		5.00 Ac.	0.12 Ac.	0.04 Ac.		0.04 Ac.		4.88 Ac.		14		PR FOR DRIVE
	GINA BODOR, FKA GINA ABRUZZI AND SERGIO ABRUZZI	774	208										14		"
21	RICHARD F. NATALE	757 806	543 242		15,468 S.F.	—	NO TAKE	—	NO TAKE				14		SUB-LOT 1 ROSEWAY ALLOTMENT, VOL. 14, PG. 3

COMPLETION DATE

DATE	REVISION DESCRIPTION
7-28-71	DELETED PARCELS 11-WD & 18-WD & CHANGED DEED RECORD PAGE PARCEL 13
8-18-71	DELETED PARCELS 15-WA, 18A-WA 20-WA & 20A-WA
8-24-71	REVISED AREA - 14T
11-4-71	CHANGED PARCEL 14-WA TO 14-T-1
11-30-72	Changed Pcl 20 to 20PR
12-12-72	ADDED PR AREA PCL. 20PR

SURVEYED	DRAWN BY	DESIGN	CHECKED	SUPERVISED

LD 0305
4-1-68

SUMMARY OF ADDITIONAL RIGHT OF WAY REQUIRED

STATE JOB NO.	FED. RD. DIVISION	STATE	PROJECT	
	2	OHIO		

TRU-422-1467

6/22

PARCEL NO.	OWNER	DEED RECORD BOOK	DEED RECORD PAGE	DEED RECORD DATE	DEED AREA	TOTAL PRO	GROSS TAKE	PRO IN TAKE	NET TAKE	NET RES. LT.	NET RES. RT.	BLDG'S TO BE ACQ'D	SHEET No.	TYPE FUNDS	REMARKS
22-WA	Bock Transfer and Storage Co.	726	39		10.00Ac.	0.28Ac.							14		Drive
22A-WA													14		Drive
23	Donald J. Fitch	826	461		20,160S.F.	———	No Take	———	No Take				14		Sub-Lots 2 & 3 Roseway Allotment, Vol. 14, Pg. 3
24-PR	Americo Pesigne and Esther Pesigne	503	619		5.00Ac.	0.16Ac.	0.02 Ac.		0.02 Ac.		4.84 Ac.		14		PR for Drive
24A-PR													14		"
25	Motor Express, Inc., an Ohio Corporation	897	873		5.00Ac.	0.24Ac.	No Take	———	No Take				14		
26-WD	William Hanley and Jules C. Passell,	882	287		22,440S.F.	———	50 S.F.	———	50 S.F.	———	22,390S.F.	No	14		Sub-Lot 39 Struby Plat, Vol. 17, Pg. 24
26-SA	a General Partnership														*Owners Compensated for Flooding & Ponding of Water to their Business by "Special Waiver of Damage" Dated 4-30-74
27	Wayne C. Greenwood, Jr.	889 892	766 1122		4.13Ac.	0.33Ac.	No Take	———	No Take				14		
28-WD	Hilda Development and Realty Corporation,	"See Remarks"			155,509S.F.	4000S.F.	50 S.F.	———	50 S.F.	———	151,459S.F.	No	14		Sub-Lots 1 & 2 Struby Plat, Vol. 17, Pg. 24 (Deed Record - Vol. 893, Pg. 124, Vol. 681,
	an Ohio Corporation														Pg. 373, Vol. 665, Pg. 45, Vol. 911, Pg. 705, Vol. 911, Pg. 703, Vol. 884 Pg. 467)
29-T	The Harry Winter Construction Co, an	905	1131		22.19Ac	0.58Ac.	0.14Ac.	———	0.14Ac.	21.61 Ac.	———	No	14, 15		Drives and Grading
	Ohio Corporation and Albert Tuber	907	798												
29A-WA	Max E. Pearlstein, Janyce B. Pearlstein,	916	714		0.50Ac.	0.09Ac.							15		Drive
	Aaron Hank and Emil Hank														
30WA	Raymond Gerald Hardman and Mary T. Hardman	854	341		0.41Ac.	0.06Ac.	0.01Ac.	———	0.01Ac.	———	0.35Ac.	No	14		Drive
31-T	The Pineview Memorial Park Association,	383	150		1,799,899S.F.	68,389S.F.	1000 S.F.	———	1000 S.F.	1,731,510S.F.	———	No	15		Drive Part of Sub Lots 13 & 14, All of Sub-Lots 12, 15 thru 27 Incl.
31A-T	a Corporation	383	128				708 S.F.	———	708 S.F.				15		Drive of the Garghill Little Farms Plat, Vol. 9, Pg. 46
31B-T		383	88				302 S.F.	———	302 S.F.				15		Grading
31A-WA		383	77										15		Drive
31B-WA													15		Drive
31C-WA													15		Drive
32	Joseph Sarkies	918	565		3.24Ac.	0.13Ac.	(253S.F.) 0.01Ac.	———	(253S.F.) 0.01Ac.	———	3.10Ac.	No	15		
32-T	"						0.03Ac.	———	0.03Ac.				14, 15		Drives & Grading
33-WA	John E. Yakovac and James R. Soda	"See Remarks"			128,888S.F.	22,651S.F.							15		Drive Part of Sub-Lots 4, 13 & 14 Garghill Little Farms Plat, Vol. 9, Pg. 46
33A-WA													15		Drive (Deed Record - Vol. 875, Pg. 627, Vol. 875, Pg. 624, Vol. 875, Pg. 619, Vol. 830, Pg. 394)
34	John Iacozili and Mary Iacozili	782	1131		4.29Ac	0.07Ac.	(253S.F.) 0.01Ac.	———	(205S.F.) 0.01Ac.	———	4.21Ac.	No	15		
34-T	" " " "						0.01Ac.	———	0.01Ac.				15		Grading
34A	Anthony Parisi, Sarah Parisi and	215	366		1.07Ac.	0.03Ac.	No Take		No Take				15		
	F.J. Strub	598	544												

FEE-FUNDS

COMPLETION DATE					
DATE	REVISION DESCRIPTION				
7-28-71	Revised Deed Record Page Pcls. 22 & 29				
8-24-71	Added 28WA				
9-7-71	Corrected Pcl. 30-T to 30WA				
10-5-71	Deleted Pcl. 34A-WA				
11-18-71	Deleted Pcls. 26WA, 28WA, 31A & B-WA				
11-30-72	Changed Pcl 29WA to 29PR & 29A-WA to 29A-T ~~Added SA Pcl 26 S-3-74~~				
12-12-72	Added PR Area Pcl. 24PR				
SURVEYED	DRAWN BY	DESIGN	CHECKED	SUPERVISED	

LD 0305
4-1-68

SUMMARY OF ADDITIONAL RIGHT OF WAY REQUIRED

STATE JOB NO.	FED. RD. DIVISION	STATE	PROJECT	
	2	OHIO		

TRU-422-14.67

7 / 22

PARCEL NO.	OWNER	DEED RECORD BOOK	PAGE	DATE	DEED AREA	TOTAL PRO	GROSS TAKE	PRO IN TAKE	NET TAKE	NET RES. LT.	NET RES. RT.	BLDG'S TO BE ACQ'D	SHEET No.	TYPE FUNDS	REMARKS
35-WA	CHARLES SFERRA, SAMUEL PETKOVICH AND	807	454		45,738 S.F.	3,049 S.F.							15	F	DRIVE PART OF SUB-LOT 4, GARGHILL LITTLE FARMS PLAT VOL. 9, PG. 46
	SAMUEL D'AGATI														
36	JOSEPH J. COMPARATO	891	18		15.12 Ac.	0.39 Ac.	(25 S.F.) 0.01 Ac.	———	(25 S.F.) 0.01 Ac	———	14.72 Ac.	No	15	F	
36-T							0.06 Ac	———	0.06 Ac				15	F	DRIVE AND GRADING
36-WA													15	F	DRIVE
37-WD	J.J.D. INC., AN OHIO CORPORATION	"SEE REMARKS"			215,622 S.F.	15,681 S.F.	11,360 S.F.	7,096 S.F.	4,264 S.F.	195,677 S.F.	———	No	20	T	VOL. 850, PG. 114.0, VOL. 840, PG. 342, VOL. 800, PG. 946 PART OF SUB-LOTS 1 & 2 AND
37-T	" " " " "						2988 S.F.	———	2988 S.F.				20	T	DRIVE AND GRADING ALL OF SUB-LOT 3, GARGHILL LITTLE FARMS PLAT, VOL 9, PG 46
														F	
38-WA	FERDINAND J. RENZ AND JULIA RENZ	842	700		0.69 Ac.	0.09 Ac.							15	F	DRIVE
39-WD	ESTATE OF CLARENCE W. OTTO AKA C.W. OTTO, DECEASED AND	"SEE REMARKS"			93,218 S.F.	16,117 S.F.	9,339 S.F.	7,008 S.F.	2,331 S.F.	74,770 S.F.	———	No	16.20	T	VOL 471, PG. 42, VOL 447, PG. 117, VOL. 432, PG 453, VOL. 432, PG 452, VOL. 386, PG. 500, VOL. 386, PG. 579
39-T	MARY C OTTO						2,268 S.F.	———	2,268 S.F.				16.20	T	GRADING PART OF SUB-LOTS 1 & 2, GARGHILL LITTLE FARMS PLAT, VOL. 9, PG. 46
40-WA	ANGELO HAIDARIS, JOHN BELLAS AND GUS KOUPAS	"SEE REMARKS"			0.45 Ac.	0.08 Ac.							15	F	DRIVE VOL. 906, PG. 823; VOL. 906, PG. 821; VOL. 805, PG. 271
40A-WA	" " " " " "														DRIVE
41	NOT USED														
42A-WA	SARKIES ENTERPRISES, INC.,	817	1082		5.11 Ac.	0.08 Ac.		———					15	F	DRIVE
	AN OHIO CORPORATION													F	
43 WD	ANTHONY CIMINERO AND NELLIE CIMINERO	900	905		148,757 S.F.	4,375 S.F.	5,466 S.F.	4,375 S.F.	1,091 S.F.	143,291 S.F.	———	No	20	T	SUB-LOT 5 GARGHILL LITTLE FARMS PLAT, VOL 9, PG. 46
														F	
44-WA	MARK FIGETAKIS	920	924		1.20 Ac.	0.20 Ac.							15	F	DRIVE
44A-WA													15	F	DRIVE
45	MYRON E. DAUM AND FERN DAUM	435	123		148,757 S.F.	4,375 S.F.	NO TAKE	———	NO TAKE				20	T	SUB-LOT 6, GARGHILL LITTLE FARMS PLAT, VOL. 9, PG. 46
46-T	CESIDIA FIORE ET. AL	"SEE BELOW"			8.39 Ac	0.41 Ac.	0.14 Ac.	———	0.14 Ac.	———	7.98 Ac.	No	15	F	DRIVES AND GRADING
47-48	NOT USED														
49	MARY A. HARNAR	502 383	270 158		12.54 Ac.	0.08 Ac.	NO TAKE	———	NO TAKE				20	T	
50	NOT USED														
51	MANUEL J. SKOPOS AND EUGENIA SKOPOS	818	700		0.72 Ac.	0.06 Ac.	NO TAKE	———	NO TAKE				20	T	
52-T	THE TOWN AND COUNTRY MOTEL COMPANY,	868	971		4.88 Ac.	0.32 Ac.	0.11 Ac.	———	0.11 Ac.	———	4.56 Ac.	No	15	F	DRIVE AND GRADING
	A PARTNERSHIP														

PCL 46-T ET. AL. OWNERS AND DEED RECORD

CESIDIA FIORE, GIULIO M. FIORE, LETIZIA FIORE, MARIO V FIORE, GAETANO PRINCIPI, AKA GAETANO PRINCIEPE, AKA GAETANO PRINCE, ANGELINE PRINCIPI, AKA ANGELINA PRINCIPI, AKA ANGELINA PRINCE, & GABRIELE P FIORE;
LAWRENCE PRINCE & GEORGE PRINCE, TRUSTEES
VOL. 849, PG. 382; VOL. 859, PG. 772; VOL. 821, PG. 988; VOL. 749, PG. 318; VOL. 577, PG. 144; VOL. 577, PG. 143; VOL. 498, PG. 281; VOL. 491, PG. 629; VOL. 566, PG. 216; VOL. 495, PG. 583

TYPE OF FUNDS
F = PRIMARY
T = TOPICS

COMPLETION DATE

DATE	REVISION DESCRIPTION
7-28-71	REVISED NAME PARCELS 42 & 46
8-20-71	DELETED PCL 37A-T & 43-T, REVISED TBA & RESIDUE FOR PCL 37-WD
9-10-71	REVISED FUNDING
11-1-71	REVISED TBA PCL 37-T & TBA & LEFT RESIDUE PCL 37-WD
	REVISED DEED AREA PCLS. 42A & 40 DELETED PCL 42 ADDED PCL 40-AWA
2-14-71	NAME REVISION PCL 39

SURVEYED	DRAWN BY	DESIGN	CHECKED	SUPERVISED

LD 0305
4-1-68

SUMMARY OF ADDITIONAL RIGHT OF WAY REQUIRED

STATE JOB NO.	FED. RD. DIVISION	STATE	PROJECT	
	2	OHIO		

TRU-422-14.67

B 22

PARCEL NO.	OWNER	DEED RECORD BOOK	PAGE	DATE	DEED AREA	TOTAL PRO	GROSS TAKE	PRO IN TAKE	NET TAKE	NET RES. LT.	NET RES. RT.	BLDG'S TO BE ACQ'D	SHEET Nº.	TYPE FUNDS	REMARKS
53-WD	JOSEPH C. COOK & BETTY C. COOK	930	550		0.72Ac.	0.06Ac.	0.07Ac.	0.06Ac	0.01Ac.	———	0.65Ac.	No	20	T	
54	MARY NICASTRO	406	42		1.57Ac.	0.11Ac.	NO TAKE	———	NO TAKE				15,	F	
55-WD	FORREST W. SMITH AND DOROTHY M. SMITH	436	240		0.93Ac.	0.07Ac	0.09Ac.	0.07Ac	0.02Ac.	———	0.84Ac	No	20	T	
55-T							0.05Ac.	———	0.05Ac.				20	T	DRIVE AND GRADING
56	SERGASCO, INC., A DELAWARE CORPORATION	799	863		1.05Ac.	0.22Ac.	NO TAKE		NO TAKE				15		
57-WD	CHRIST MICHELAKIS AND MARGARET MICHELAKIS, OWNERS	926 925	901 874		0.75Ac.	0.06Ac.	0.09Ac.	0.06Ac	0.03Ac.	———	0.66 Ac.	No	20	T	
57-T	EMMANUEL N. MICHELAKIS & CHRISTINE MICHELAKIS, HOLDERS OF LAND CONTRACT						0.06Ac.	———	0.06Ac.				20	T	DRIVES AND GRADING
58-PR	GUERINO ABRUZZI DBA CAFE 422, AKA GUERINO	880	1118		3.60Ac.	0.39Ac	0.09 Ac.		0.09Ac.		3.21 Ac.		15,16		PR FOR DRIVE
	ABRUZZI, AKA GUERINO ABRUZZO	520 447	198 522												
59-WD	DALE N. MILLS AND MARY J. MILLS, OWNERS,	599	324		0.77Ac.	0.06Ac.	0.08Ac.	0.06Ac	0.02Ac.	———	0.69Ac.	No.	20	T	L.C. VOL. 63, PG. 265
59-T	SETH W. BARTLETTE AND JANE BARTLETTE,	419	235				0.02Ac	———	0.02Ac.				20	T	DRIVE AND GRADING
	HOLDERS OF LAND CONTRACT														
60-WD	P.M. GAS WASH CO.	920	1015		639465.F.	———	511 S.F.	———	511 S.F.	———	61,961 S.F.	No	16	T	
60-WD-1							1,474 S.F.	———	1,474 S.F.				20	T	
60-T							344 S.F.	———	344 S.F.				16	T	GRADING
60-T-1							415 S.F.	———	415 S.F.				20	T	DRIVE & RECONNECT EXISTING CATCH BASIN
60A-WD	FRANK FETCHET AND CAROLYNE J. FETCHET	842	1107		22,500SF	———	751 S.F.	———	751 S.F.	———	21,749 S.F.	No	16	T	
60A-T							751 S.F.	———	751 S.F.				16	T	DRIVES AND GRADING
60B-WD	FRANK BESHARA AND FRANK FETCHET	749 748	34 78		26,013SF	2,014 S.F.	3,343 SF	2,014 SF	1,329SF	22,670 SF	———	No	20	T	
60B-T							966 S.F.		966 S.F.				20	T	DRIVE
60B-WD1	FRANK BESHARA AND FRANK FETCHET	749 748	34 78		16,174 SF	1,280 S.F.	1,664 S.F.	1,280 S.F.	384 SF	14,510 SF	———	No	20	T	
61	NOT USED														
62-WD	TREMARCO CORPORATION, A DELAWARE	677	91		22,500SF	———	4,630 S.F.	———	4,630 S.F.	———	17,870 S.F.	No	16,20	T	
62-T	CORPORATION						3,060 S.F.	———	3,060 S.F.				16.20	T	DRIVES AND GRADING
63-WD	REPROCO, INC., A DELAWARE CORPORATION	888	450		0.61Ac	0.18Ac.	0.24Ac	0.18Ac	0.06Ac	0.37Ac	———	No	16,20	T	
63-AWA	" " "						0.06Ac.	———	0.06Ac.				16,20	T	DRIVES AND GRADING
63-WA	" " "												16,20	T	REMOVAL OF OVERHANG
64	NOT USED														

ADDED PR AREA PL 58PR 12-12-72
CHANGED PCL 58 TO 58PR 1-10-72
REVISED NAME PCLS 57, 1-22-71
DELETED PARCELS 56-T & 58-T 11-8-71

TYPE OF FUNDS
F = PRIMARY
T = TOPICS

COMPLETION DATE

DATE	REVISION DESCRIPTION
7-28-71	REVISED NAME PARCELS 55 & 60A
8-20-71	ADDED PCL 60-T-1, REVISED T/BA FOR PCLS. 55-T, 59-T & 63-T
9-10-71	REVISED FUNDING
9-16-71	REVISED NAME PCL 57 WD, T
9-29-71	REVISED NAME, VOL & PG PCL 53 WD
10-12-71	CORRECTED AREA OF T/BA & RESIDUE PCL 62 WD
10-22-71	CONVERTED 63-T TO 63 AWA per GUEBOK 10-22-71

SURVEYED	DRAWN BY	DESIGN	CHECKED	SUPERVISED	

LD 0305
4-1-68

SUMMARY OF ADDITIONAL RIGHT OF WAY REQUIRED

STATE JOB NO.	FED. RD. DIVISION	STATE	PROJECT	
	2	OHIO		

TRU-422-1467

9/22

TOTAL NO. OWNERS-

PARCEL NO.	OWNER	DEED RECORD BOOK	PAGE	DATE	DEED AREA	TOTAL PRO	GROSS TAKE	PRO IN TAKE	NET TAKE	NET RES. LT.	NET RES. RT.	BLDG'S TO BE ACQ'D	SHEET NO.	TYPE FUNDS	REMARKS
65-WD	HARRY S KEFFALOS AND MARY	816	64		1.49Ac	0.16Ac.	0.17 Ac.	0.12Ac.	0.05Ac.	1.26 Ac.		No	16	T	HARRY KEFFALOS, SR LIFE ESTATE IN 1.21 Ac VOL. 816 Pg. 64
65A-WD	KEFFALOS	822	379				0.06Ac.	0.04Ac.	0.02Ac.				20	T	
65 T							0.04Ac.		0.04Ac				16	T	DRIVE AND GRADING
65A-T							0.03Ac.		0.03Ac.				20	T	DRIVE AND GRADING
66	NOT USED														
67	CERNI MOTOR SALES, INC.	879	1057		126,324SF	5,974SF		———		117,968 SF	———	No	16		
67-WD	" " " "						8,356 S.F.	5,974 S.F.	2,382 S.F.				16	T	
68-WD	THIRD WARREN CORP, AN OHIO CORPORATION	875	847		383,502SF	31,806SF	47,626S.F.	31,806S.F.	15,820SF.	———	335,876SF	No	16	F	
69-T	JOHN CERNI AND CHARLES CERNI	886	479		35,545SF	1,638S.F.	565S.F.	———	565 S.F	33,592S.F.	———	No	16	T	DRIVE AND GRADING B&P LEASE TO CERNI MOTOR SALES, INC VOL 80 PG. 617
69-WD	" " " " " "						1,953 S.F.	1,638 S.F.	315 SF				16	T	
70-S	THE SUN OIL COMPANY, OF PENNSYLVANIA, A	753	406		22,500SF	———	751 S.F.	———	751 S.F.	———	22,500SF	No	16,20	T	SEWER
70-T	PENNSLYVANIA CORPORATION						754 S.F.	———	754 S.F				16,20	T	GRADING
71-T	THOMAS G. HAIDARIS, GEORGE G. HAIDARIS AND ANGELO HAIDARIS	752	832		63,336SF	2,973SF	1,447S.F.	———	1,447S.F	60,363SF	———	No	16	F	DRIVES & GRADING
72-QC	NILES ASSOCIATES, AN OHIO LIMITED	890	99		370,652SF	30,812SF	27,891S.F.	27,197S.F.	694S.F.	———	339,146SF	No	16	T	
72-S	PARTNERSHIP						762 SF	———	762 S.F.				'6	T	SEWER
72-T							4,495S.F.	———	4,495S.F.				16	T	DRIVE AND GRADING
73WA	RAYMOND E LONSWAY	679 927	32 729		154,017SF	6,104S.F.							16	F	DRIVE
74-T	HAROLD E HAUGHTON AND LILLIAN R. HAUGHTON	843	116		33,600SF	———	2,153SF	———	2,153SF	———	33,600SF	No	16	F	GRADING SUB-LOTS 1&2 VALLEY HOME GARDEN ACRES, VOL. 11, PG. 22
75-S	WILLIAM NILES CORP., AN OHIO CORPORATION	959	65		477,997S.F.	15,631S.F.	918S.F.	———	918SF	462,368SF.	———	No	16	F	
75-T							2,069 S.F.		2,069 S.F.				16	F	GRADING
76-T	ALTA CHEONCHEO AKA ALTO CHEONCHEO	"SEE REMARKS"			105,959SF	2,087S.F.	1,665S.F.	———	1,665SF	———	103,852SF	No	16,17	F	DRIVE AND GRADING VOL. 719, PG 601, VOL. 408, PG. 39, VOL. 392, PG. 231, VOL. 394 PG. 26 SUB-LOTS 3, 4 & 164 VALLEY HOME GARDEN ACRES, VOL. 11, PG. 22
77	PAUL G CAPITO AND JULIA G. CAPITO	756	235		25,091SF	11,380SF	504 SF	———	504 SF	13,207	———	No	16	F	
77-T							4807 S.F.	———	4807 S.F				16	F	GRADING
78	ROSE M. DECHRISTOFARO AND FELICIA E. DICHRISTOFARO	857	480		23,523SF	1353 SF	NO TAKE		NO TAKE				17	F	PART OF SUB LOT 5 VALLEY HOME GARDEN ACRES, VOL. 11, PG. 22
79	THE SECOND NATIONAL BANK OF WARREN,	883	991		30,230SF	5,540SF	1,445S.F.	———	1,445S.F	23,245SF	———	No	16,17	F	
79-T	TRUSTEE						502S.F.	———	502S.F.				16,17	F	DRIVE

TYPE OF FUNDS

T= TOPICS

5-8-73 REV NAME PCL 75-S

2-14-73 REV. 72WD TO 72 &C R.S.

COMPLETION DATE					
DATE	REVISION DESCRIPTION				
8-20-71	ADDED PCL 75-T				
9-8-71	ADDED PARCEL 73WA				
9-10-71	REVISED FUNDING				
9-27-71					
10-8-71	DELETED PCL 67-T ADDED 67WA				
11-1-71	REVISED T.B.A. PCL. 77-T				
3-29-72	REVISED NAME PCL 70				
SURVEYED	DRAWN BY	DESIGN	CHECKED	SUPERVISED	

LD 0305
4-1-68

SUMMARY OF ADDITIONAL RIGHT OF WAY REQUIRED

STATE JOB NO.	FED. AID DIVISION	STATE	PROJECT
	2	OHIO	

10/22

PARCEL NO.	OWNER	DEED RECORD BOOK	DEED RECORD PAGE	DEED RECORD DATE	DEED AREA	TOTAL PRO	GROSS TAKE	PRO IN TAKE	NET TAKE	NET RES. LT.	NET RES. RT.	BLDG'S TO BE ACQ'D	SHEET Nº	TYPE FUNDS	REMARKS
80	ALBEE HOMES, INC.	669	451		39,040 S.F.	—	No Take		No Take				17		
81	MARY SCARNECCHIA ET AL.				68,389 S.F.	7,344 S.F.	613 S.F.		613 S.F.	60,432 S.F.					
81-T	" " "	"SEE BELOW"					402 S.F.	—	402 S.F.		—	No	17		LEASED TO STANDARD OIL COMPANY, VOL. 83, PG. 884, VOL. 84, PG. 122; VOL. 84, PG. 368; VOL. 83, PG. 881; VOL. 84, 119; VOL. 84, PG. 365 DRIVES & GRADING
81-A-T	" " "						520 S.F.		520 S.F.						
82-T	HOWLAND ENTERPRISES, INC. FKA THE	737 905	583 676		799,313 S.F.	36,959 S.F.	8,871 S.F.	—	8,871 S.F.	—	762,339 S.F.	No	17, 18		DRIVES AND GRADING. DEED AREA INCLUDES CITY LOTS 7383, 7385 AND 7386
82	LAVERNE DRIVE-IN-THEATER CORPORATION,	888 888	295 293				15 S.F.	—	15 S.F.				17		
	AN OHIO CORPORATION	530	588												
83-T	PARK SOUTH CORPORATION	858	26				1,937 S.F.		1,937 S.F.			No.	17		DRIVE
84-WA	LINCOLN HOMES COMPANY, A	771	284		58,130 S.F.	2,521 S.F.							17		DRIVE
84A-WA	PENNSYLVANIA CORPORATION												17		DRIVE
85-WD	ROMAR, INC.	919	959		548,419 S.F.	81,579 S.F.	60,215 S.F.	52,975 S.F.	7,240 S.F.	459,600 S.F.	—	No	17, 18		DEED AREA CALCULATED - SEE NOTE "A"
85-S							2,189 S.F.	—	2,189 S.F.				17		SEWER
85-T							8069 S.F.		8069 S.F.				17, 18		GRADING AND DRIVES
86-T	CHARLES P. LAMONGE AND THOMAS J. MATASH	861	230		20,000 S.F.	—	1,252 S.F.	—	1,252 S.F.	—	20,000 S.F.	NO	18		CITY LOT 7389, FORMERLY SUB-LOT 23 HOWLAND HOMES SUBDIVISION, PLAT 3, VOL. 11, PG. 38 DRIVES
87	CARMEN DELLATRECCHIA	780	780		30,165 S.F.	—	No Take	—	No Take				18		SUB-LOT 186, HOWLAND HOMES SUBDIVISION, PLAT Nº 3, VOL. 11, PG. 38
88-T	TRUMBULL INVESTMENT CO., INC., AN OHIO CORPORATION	770	542		17,151 S.F.	—	870 S.F.	—	870 S.F.	—	17,151 S.F.	No	18		CITY LOT 7390, FORMERLY SUB-LOT 24, HOWLAND HOMES SUBDIVISION, PLAT Nº 3, VOL. 11, PG. 38 DRIVE
89-T	JAMES BERNARD, JR.	884	319		20,018 S.F.	—	1,307 S.F.	—	1,307 S.F.	20,018 S.F.	—	No	18		DRIVE AND GRADING. SUB-LOT 187 HOWLAND HOMES SUBDIVISION, PLAT Nº 3, VOL. 11, PG. 38
90	RICHARD J. SKIFFEY AND ROSE RAE SKIFFEY	841 833	188 628		20,000 S.F.	—	No Take		No Take				18		CITY LOT 7391, FORMERLY SUB-LOT 25, HOWLAND HOMES SUBDIVISION, PLAT Nº 3, VOL. 11, PG. 38
91-WD	TRUMBULL NEW THEATRE, INC.	746	874		78,231 S.F.	14 S.F.	316 S.F.	14 S.F.	302 S.F.	77,915 S.F.	—	No	18		ALL OF SUB-LOT 188, PART OF SUB-LOT 189, HOWLAND HOMES SUBDIVISION, PLAT Nº 3
91-T		635	232				2,307 S.F.		2,307 S.F.				18		DRIVE AND GRADING VOL. 11, PG. 38
92-T	FRED C. MORRIS AND CLYDE H. FISHER	820 810	481 723		80,000 S.F.	—	275 S.F.	—	275 S.F.	—	80,000 S.F.	No	18		CITY LOTS 7392, 7393, 7394, 7395, FORMERLY SUB-LOTS 26, 27, 28, 29 HOWLAND HOMES SUBDIVISION, PLAT Nº 3, VOL. 11, PG. 38
		713	1												
93-WD	JOSEPH A. GILMOUR	800	1058		32,319 S.F.	1,189 S.F.	70 S.F.	61 S.F.	9 S.F.	31,121 S.F.	—	No	18		ALL OF SUB-LOT 190, PART OF SUB-LOTS 189 & 191 HOWLAND HOMES SUBDIVISION
93-T		835	374				675 S.F.	—	675 S.F.				18		DRIVE & GRADING PLAT Nº 3, VOL. 11, PG. 38
94-T	STATEWIDE STATIONS, INC., A DELAWARE CORPORATION	817	1140		37,312 S.F.		497 S.F.	—	497 S.F.	—	37,312 S.F.	NO	18		CITY LOTS 7396, 7397 FORMERLY SUB-LOTS 30, 31, HOWLAND HOMES DRIVE AND GRADING SUBDIVISIONS PLAT Nº 3, VOL. 11, PG. 38
94A-T							2315 S.F.	—	2315 S.F.				18		GRADING
94B-WD	TEXACO INC., A DELAWARE CORPORATION	944	685		50 S.F.		50 S.F.	—	50 S.F.	—	—	No	18		CITY LOT 7397
95-WA	THEODORE L. SWARTZ AND MARGARET L. SWARTZ	815	435		32,072 S.F.	231 S.F.							18		DRIVE PART OF SUB-LOT 191 HOWLAND HOMES SUBDIVISIONS, PLAT Nº 3, VOL. 11, PG. 38

F-FUNDS

PCL. 81 ETAL OWNERS AND DEED RECORD

MARY SCARNECCHIA; IRENE SCARNECCHIA; PALMER C. SCARNECCHIA; GILBERT SCARNECCHIA; MARGARET S. MAHAN; GLORIA FOGARTY

VOL. 902, PG. 146; VOL. 898, PG. 639; VOL. 657, PG. 19; VOL. 361, PG. 494

NOTE "A"
DEED AREA FOR PCL 85 CALCULATED FROM THE EXISTING EASTERLY R/W LINE OF MINES RD. RELOCATION TO THE GRANTOR'S EASTERLY PL.

REV. DEED AREA & REVISE PCL. 94-WD 4-23-73

COMPLETION DATE

DATE	REVISION DESCRIPTION
7-28-71	ADDED VOL. & PGS. PARCEL 83
8-23-71	REVISED NAME VOL. & PG. PARCEL 83-T
10-14-71	DELETED PCL. 87-T
10-18-71	ADDED PCL. 82 REVISED AREA PCL 82-T
11-16-71	REVISED T.B.A. PCL 81 & ADDED PCLS. 81-T & A
5-23-72	REVISED 94WD TO 94BWD (OUTSALE)

SURVEYED	DRAWN BY	DESIGN	CHECKED	QUANTITIES

LD 0305
4-1-69

SUMMARY OF ADDITIONAL RIGHT OF WAY REQUIRED

112

STATE JOB NO.	FED. RD. DIVISION	STATE	PROJECT	
	2	OHIO		

11/22

PARCEL NO.	OWNER	DEED RECORD BOOK	PAGE	DATE	DEED AREA	TOTAL PRO	GROSS TAKE	PRO IN TAKE	NET TAKE	NET RES. LT.	NET RES. RT.	BLDG'S TO BE ACQ'D	SHEET Nº.	TYPE FUNDS	REMARKS
96-WD	C. R. PROPERTIES, INC., AN OHIO	794	272		577,300 S.F.	—	3,193 S.F.	—	3,193 S.F.	—	573,633 S.F.	No	18 & 19	T	
96A-WD	CORPORATION	902	871				312 S.F.	—	312 S.F.				19, 21	T	
96B-WD		785	712				162 S.F.	—	162 S.F.				21	T	
								—							
96-T							11,167 S.F.	—	11,167 S.F.				18 & 19	T	DRIVE AND WORKING SPACE
96AT							7,349 S.F.	—	7,349 S.F.				19, 21	T	DRIVES AND GRADING
97-WD	ESTHER D. LEVY	632	41		40,360 S.F.	—	1,693 S.F.	—	1,693 SF	38,667 S.F.	—	No	18	F	SUB-LOTS 192, 193, HOWLAND HOMES SUBDIVISION, PLAT Nº 3, VOL. 11, PG. 38
97-T							752 S.F.	—	752 SF				18	F	
98-T	KHEVA T. GHISEA aka KHEVA TANASE	562	416		23,000 S.F.	—	805 S.F.	—	805 S.F.	23,000 S.F.	—	No	21	T	GRADING CITY LOT 7403, FORMERLY SUB-LOT 44, HOWLAND HOMES SUBDIVISION
	GHISEA	928	43												PLAT Nº 3, VOL. 11, PG. 38
98A-T	RONALD E. LEONARD AND JANE E. LEONARD	855	487		20,000 S.F.	—	700 S.F.	—	700 S.F.	20,000 S.F.	—	No	21	T	DRIVE AND GRADING CITY LOT 7404, FORMERLY SUB-LOT 45, HOWLAND
															HOMES SUBDIVISION, PLAT Nº 3, VOL. 11, PG. 38
99 WD	ELIZABETH JONES	825 / 702	1082 / 17		19,788 S.F.	—	225 S.F.	—	225 S.F.	19,563 S.F.	—	No	18	F	SUB-LOT 194, HOWLAND HOMES SUBDIVISION, PLAT Nº 3, VOL. 11, PG. 38
99-T	"						1125 S.F.		1125 S.F.				18	F	GRADING
99-S	"						150 S.F.		150 S.F.				18	F	SEWER EASEMENT
100-WD	JOHN KOVACS AND HELEN M. KOVACS	644 / 383	345 / 54		40,270 S.F.	6,919 S.F.	7,762 S.F.	6,919 S.F.	843 S.F.	—	32,508 S.F.	No	21	T	
101-WD	SHANNON GROUP, AN OHIO PARTNERSHIP	924	856		58,418 S.F.	—	50 SF	—	50 SF.	58,368 S.F.	—	No	18	F	SUB-LOT 231, HOWLAND HOMES SUBDIVISION, PLAT Nº 3, VOL. 11, PG. 38
101-T							1005 S.F.		1005 S.F				18	F	GRADING
102-WD	HERSCHEL H. BUCHANAN	858	1038		134,918 S.F.	9,000 S.F.	10,536 S.F.	9,000 S.F.	1,536 S.F.	—	124,382 S.F.	No	21	T	SUB-LOT 6, RICHARD S. HAWKES PLAT No. 1 VOL. 14, PG. 100
102-T							3,961 S.F.		3,961 S.F.				21	T	DRIVES & GRADING
103-WA	LULA GENTITHES	596	221		174,240 S.F.	53,650 S.F.							18	T	DRIVE
103-A-WA													18	T	DRIVE
103-B-WA													19, 21	T	DRIVE & GRADING
103-C-WA													21	T	DRIVE
104-WD	CITY OF NILES, OHIO	639	176		7,875 S.F.	—	225 S.F.	—	225 S.F.	—	7,650 S.F.	No	21	T	SUB-LOT 1, RICHARD S. HAWKES PLAT No. 1 VOL. 14, PG 100
104-T							225 S.F.		225 S.F.				21	T	GRADING
105-T	CHARLE H. BENDIG & MARJORIE A. BENDIG	865	28		44,997 S.F.	4,950 S.F.	1457 SF		1,457 S.F.	40,047 S.F.	—	No	21	T	DRIVE & GRADING
106-WD	RICHARD S. HAWKES	677	69		21,000 S.F.	—	600 S.F.	—	600 S.F.	—	20,400 S.F.	No	19, 21	T	SUB-LOT 2 & PART OF SUBLOT 5, RICHARD S. HAWKES PLAT No. 1 VOL. 14, PG. 100
106-T							1,200 S.F.		1,200 S.F.				19, 21	T	DRIVE & GRADING
107	FRED H. LAW	SEE	REMARKS		45,900 S.F.	5,049 S.F.	NO TAKE		NO TAKE				21	T	VOL. 826, PG. 938 ; VOL. 826, PG. 936 ; VOL. 826, PG. 933 ; VOL. 833, PG. 956 ; VOL. 833, PG. 954
108-WD	THE STANDARD OIL COMPANY,	708	238		22,708 S.F.	—	947 S.F.	—	947 S.F.	—	21,761 S.F.	No	19, 21	T	SUB-LOT 3, RICHARD S. HAWKES PLAT No. 1 VOL. 14, PG. 100
108-T	AN OHIO CORPORATION						3,508 S.F.		3,508 S.F.				19, 21	T	DRIVE & GRADING

TYPE OF FUNDS
F = PRIMARY
T = TOPICS

COMPLETION DATE

DATE	REVISION DESCRIPTION
7-28-71	ADDED DEED VOL. PG. PARCEL 100
8-26-71	REVISED NAME PCL 101
9-10-71	REVISED FUNDING
9-29-71	CONVERTED "Ts" to WA's Pcl. 96 per Gusjak
3-19-73	REVISE PCL 99 WD TO 99 WD, S & T
	REV. T.B.A.'S REV. PCLS 96AWA & 96WA TO "Ts" 11-27-73

SURVEYED	DRAWN BY	DESIGN	CHECKED	SUPERVISED

LD 0305
4-1-68

SUMMARY OF ADDITIONAL RIGHT OF WAY REQUIRED

STATE JOB NO	FED. PROJ. NO	STATE	ROUTE
	X	OHIO	

TRU 422 - 14.67

12/22

PARCEL NO.	OWNER	DEED RECORD BOOK	DEED RECORD PAGE	DEED RECORD DATE	DEED AREA	TOTAL PRO	GROSS TAKE	PRO IN TAKE	NET TAKE	NET RES. L.T.	NET RES. R.T.	BLDG'S TO BE ACQ'D	SHEET NO	TYPE FUNDS	REMARKS
109	Sally E. Suda	881	795		115,948 S.F.	7,509 S.F.	No Take		No Take				21	T	
110	The I.E.R. Company, An Ohio Corporation	635	215		40,395 S.F.	———	No Take		No Take				19	T	Sub-Lot 4, Richard S. Hawkes Plat No. 1 Vol. 14, Pg 100
111-T	Sally J. Tenney	711	260		81,520 S.F.	5280 S.F.	1488 S.F.		1488 S.F.	———	76,240 S.F.	No	21	T	Drive & Grading
112	The Niles-Warren Motor Lodge, Inc., An Ohio Corporation	757	551		109,862 S.F.	9753 S.F.	No Take		No Take				19	T	Part Of Sub-Lot 5, Richard S. Hawkes Plat No. 1 Vol. 14, Pg. 100
113-WA	Rosario Basile	730	330		70,524 S.F.	4560 S.F.							21	T	Drive
113-A-WA													21	T	Work Space
114-S	Payless Stations, Inc.,	675	278		105,589 S.F.	18,076 S.F.	86 S.F.		86 S.F.	———	87,513 S.F.	No	19	F	
114-A-WA	A Kentucky Corporation	892	408										19	F	Drive
115-WD	Lawrence W. Jolley	861	1051		127,586 S.F.	———	1,365 S.F.	———	1,365 S.F.	———	126,221 S.F.	No	19,21	T	
115-T							975 S.F.		975 S.F.				19,21	T	Drive & Grading
115-S							250 S.F.		250 S.F.				21	T	Sewer
116-S	M & M Motels, Incorporated,	600	156		174,240 S.F.	13,982 S.F.	147 S.F.		147 S.F.	———	160,258 S.F.	No	19	F	
116-WA	An Ohio Corporation												19	F	Drives
117-WD	The Comparato Realty Company	856	628		126,760 S.F.	17,160 S.F.	20,500 S.F.	17,160 S.F.	3340 S.F.	106,260 S.F.	———	No	19,21	T	
117-T							763 S.F.		763 S.F.				19,21	T	Work Space
117-A-T							1,603 S.F.		1,603 S.F.				19,21	T	Work Space & Drive
118-WA	George W. Gales & Edith M. Gales	421	590		128,938 S.F.	7000 S.F.							19	F	Drive
119-WD	Franklyn Realty Company,	924	748		45,000 S.F.	6,001 S.F.	7,154 S.F.	6,001 S.F.	1153 S.F.	37,846 S.F.	———	No	19	T	
119-T	An Ohio Corporation	832	1121				917 S.F.		917 S.F.				19	T	Drives
120	Julia A. Howe	834	910		161,172 S.F.	7,000 S.F.	No Take		No Take				19		
121	Not Used														
122 WA	Eugene B. Kehn	509/450	44/232		154,963 S.F.	7,000 S.F.							19	F	Drive
123-WD	Z.D. West , Inc., A Delaware Corporation	939	569		30,000 S.F.	4,000 S.F.	4,649 S.F.	4,000 S.F.	649 S.F.	25,351 S.F.	———	No	19	T	
124	Tony A. Marr & Fannie M. Marr	748/550	9/383		88,557 S.F.	1,906 S.F.	No Take		No Take				19	F	
														F	
124-A	Tony Marr, Paul Marr & Rocco Constantino	550	383		255,193 S.F.	14,000 S.F.	No Take		No Take				19,20		

TYPE OF FUNDS
F= PRIMARY
T= TOPICS

DATE	REVISION DESCRIPTION
7-28-71	Added Deed Vol & Pg Parcel 114 Deleted Vol 1 Pg Parcel 123
8-25-71	Added Parcels 120 WA & 122 WA
9-10-71	Revised Funding
11-12-71	Deleted Pcl 120 WA
1-5-72	Revised Name Pcl 123 WD
3-1-73	Revised Area of Take Pcl. 115

COMPLETION DATE

LD 0305
4-1-69

SUMMARY OF ADDITIONAL RIGHT OF WAY REQUIRED

STATE JOB NO.	FED. RD. DIVISION	STATE	PROJECT	
	2	OHIO		

13
22

PARCEL NO.	OWNER	DEED RECORD BOOK	DEED RECORD PAGE	DEED RECORD DATE	DEED AREA	TOTAL PRO	GROSS TAKE	PRO IN TAKE	NET TAKE	NET RES. LT.	NET RES. RT.	BLDG'S TO BE ACQ'D	SHEET NO.	TYPE FUNDS	REMARKS
125	PAUL A. GUARNIERI &	776	495		178,519 S.F.	12,416 S.F.	426 S.F.		426 S.F.	165,677 S.F.	———	No	19	T	
125-WA	BERNARD W. ROSENBERG												19	T	DRIVE
125-A-WA													19	T	DRIVES
126	LOUIS DELUCIA	785	259		27,000 S.F.	6,000 S.F.	NO TAKE		NO TAKE				20	F	
127-WA	HOLLIDAY INN WARREN-NILES OHIO INC., AN OHIO CORPORATION	818	447		246,114 S.F.	13,162 S.F.							19	F	DRIVE & GRADING
128	FULLY R. SPAIN	679	569		27,000 S.F.	6,000 S.F.	NO TAKE		NO TAKE				20	F	
129-T	RICHARD F. ALBERINI aka. RICHARD ALBERINI &	SEE	REMARKS		147,217 S.F.	———	1,771 S.F.		1,771 S.F.	147,217 S.F.	———	No	19	F	DRIVE & GRADING VOL. 868, PG. 1041 ; VOL. 848, PG. 1104 ; VOL. 773, PG. 417 ;
129-WA	GILDA R. ALBERINI aka. GILDA ROSE ALBERINI												19	F	RECONNECT EXISTING PIPE VOL. 768, PG. 87 ; VOL. 750, PG. 927 ; VOL. 849, PG. 354 SUB-LOTS 20 THRU 42 ; 49 THRU 52 AND PART OF 76 IN THE LINCOLN REALTY COMPANY PLAT NO. 1 VOL. 12, PG. 32
130	GREEN ACRES, INC.	834 834	344 346		350,418 S.F.	9,000 S.F.	NO TAKE		NO TAKE				20	F	
131	ANDREW P. MALLIN & MARGARET W. MALLIN	SEE	REMARKS		67,200 S.F.	———	NO TAKE		NO TAKE				19		VOL. 920, PG. 949 ; VOL. 807, PG. 667 ; VOL. 498, PG. 483 ; VOL. 696, PG. 389 ; VOL. 671, PG. 91 ; VOL. 559, PG. 268 SUB-LOTS 14 THRU 19 AND 53 THRU 60 IN THE LINCOLN REALTY COMPANY PLAT NO. 1 VOL. 12, PG. 32
132	NOT USED														
133-T	MICHAEL LESTER aka. MICHAEL E. LESTER & CONNA A. LESTER f.k.a. CONNA NAN SCHULTZ	877 855 854 817	579 181 915 422		69,369 S.F.	———	3,701 S.F.		3,701 S.F.	69,369 S.F.	———	No	19 & 20	F	DRIVE & GRADING SUB-LOTS 5 THRU 13 AND 61 THRU 65 IN THE LINCOLN REALTY COMPANY PLAT NO. 1 VOL. 12, PG. 32
134-T	JOHN SLIWINSKI ET. AL.	896	125		17,816 S.F.	1,641 S.F.	1,641 S.F.		1,641 S.F.	16,175 SF	———	No	20	F	GRADING

PARCEL 134-T ET. AL. OWNERS
JOHN SLIWINSKI
DANIEL W. TITI
RAY TRAVAGLINI
SANDY B. PETRUSO
NICK CRISTO

TYPE OF FUNDS
F = PRIMARY
T = TOPICS

COMPLETION DATE	
DATE	REVISION DESCRIPTION
8-18-71	ADDED PCL. 134-T
9-10-71	REVISED FUNDING
11-1-71	DELETED PCL. 131-T
11-12-71	REVISED PCL 125WD to 125 EASEMENT

SURVEYED	DRAWN BY	DESIGN	CHECKED	SUPERVISED

LD 0305
4-1-68

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

TRU.-422-14.67

14/22

BY	DATE	CHECKED BY	DATE
EA	10-6-69	KW	6-17-70
Solomon	3-17-70		
Solomon	6-22-70		

LINE SHEET

SURVEYED
PLOTTED
INKED
DESIGNED
QUANTITIES

Changed R/W 20 Ft. to 24PR, 24AM to 24PR, 24A to 24PR & Changed Drives on Pcl. 20 & 24 11-30-72

DEF. STA. 773+17.76
Δ=1°17'Lt.

BEGIN SHEET STA. 772+00

MATCH LINE STA. 784+00

MATCH LINE STA. 784+00

END SHEET STA. 796+00

TRUMBULL COUNTY
HOWLAND TOWNSHIP
T-4N R-3W
LOT 39

TRUMBULL COUNTY
HOWLAND TOWNSHIP
T-4-N, R-3-W
LOT 39

TRUMBULL COUNTY
HOWLAND TOWNSHIP
T-4-N, R-3-W
LOT 40

BENEVOLENT & PROTECTIVE ORDER OF ELKS OF WARREN OHIO, LODGE 2295

ROSEWAY ALLOTMENT
LOT 1 | LOT 2 | LOT 3

DONALD J. FITCH
NO TAKE

RICHARD F. NATALE
NO TAKE

THE FOREST ATLANTIC CORPORATION

DO-CUT SALES & SERVICE, INC.
NO TAKE

RADIO STATION WHHH, INC.

WALTER K. BENEDICTUS & JOSEPHINE A. BENEDICTUS

ROBERT C. LEWIS & CAROLYN A. SIDDALL

PAT FINELLI & MARY FINELLI, OWNERS
MACK L. ROZZANO & FRANCES C. ROZZANO, HOLDERS OF LAND CONTRACT

JOHN N. GRIMA & JOSEPH N. GRIMA

RIDGEVIEW REALTY, INC.
AN OHIO CORPORATION

A & M DEVELOPMENT, INC.

G. BRIAN SHEEHE & ESTHER L. SHEEHE

Ridgeview Plaza Shopping Center

MOTOR EXPRESS, INC.,
AN OHIO CORPORATION

WAYNE C. GREENWOOD JR.

THE HARRY WINTER CONSTRUCTION CO.,
AN OHIO CORPORATION & ALBERT TUBER

ELISA ABRUZZI, DUILA ABRUZZI LOMBARDI, GINA BODOR f.k.a. GINA ABRUZZI & SERGIO ABRUZZI

DOROTHY R. WELLING

DANIEL McGARVEY & BERNICE McGARVEY

BOCK TRANSFER & STORAGE COMPANY

AMERICO PISEGNE & ESTHER PISEGNE

HILDA DEVELOPMENT & REALTY CORPORATION, AN OHIO CORPORATION

WILLIAM HANLEY & JULES C. PASSELL, A GENERAL PARTNERSHIP

RAYMOND GERALD HARDMAN & MARY T. HARDMAN

BEGIN ACQUISITION STA. 775+40.00

BEGIN PROJECT STA. 776+39.98
FED. NO. U-522 (27)

EXISTING SEWER EASEMENT LINE

EXISTING 10' EASEMENT TO TRUMBULL COUNTY VOL. 791, PG. 653

EXISTING EASEMENT TO TRUMBULL COUNTY VOL. 799 PG. 332

NOTE: THE CONC. RETAINING WALL IN PCL. 10-T NOT TO BE DISTURBED: SIGN AT STA. 777+00 - RT. & ENTRANCE POLE AT STA. 776 RT. NOT TO BE DISTURBED

NOTE: SIGN NOT TO BE DISTURBED

NOTE: LIGHT NOT TO BE DISTURBED

(13/S) T.B.A. 174 S.F.

(13/T) T.B.A. 350 S.F. DRIVEWAY

(10) T.B.A. 0.01 Ac. (25 S.F.)

(10/T) T.B.A. 0.10 Ac. DRIVE & GRADING

(12/T) T.B.A. 0.02 Ac. GRADING

(14/T) T.B.A. 0.04 Ac. DRIVE & GRADING

(14/T-1) DRIVE T.B.A. 0.01 Ac. (1503 S.F.)

(29/T) T.B.A. 0.14 Ac. SLOPING & DRIVES

(28/WD) T.B.A. 50 S.F.

(26/WD) T.B.A. 50 S.F.

(24/PR) DRIVE T.B.A. 0.02 Ac.

(20/PR) DRIVE T.B.A. 0.04 Ac.

(15) DRIVE NO TAKE

(17/WA) DRIVE

(19/WA) DRIVE

(16/WA) NO TAKE

(6) NO TAKE

(8) NO TAKE

(9) NO TAKE

(11) NO TAKE

(23) NO TAKE

(25) NO TAKE

(27) NO TAKE

(21) NO TAKE

(18/WA) DRIVE

(22/WA) DRIVE

(22A/WA) DRIVE

(24A/PR) DRIVE

(30/WA) DRIVE

(32/T)

(33/T)

(34/T)

PARCEL 14-T
1. S46°29'30"E ~ 102.00'
2. S43°30'30"W ~ 32.00'
3. N46°29'30"W ~ 40.00'
4. N43°30'30"E ~ 27.00'
5. N46°29'30"W ~ 62.00'
6. N43°30'30"E ~ 5.00'

PARCEL 14-T-1
1. S46°29'30"E ~ 30.00'
2. S43°30'30"W ~ 5.00'
3. N46°29'30"W ~ 30.00'
4. N43°30'30"E ~ 5.00'

NOTE. THE FOLLOWING LISTED PARCELS SHOWN ON THIS SHEET, HAVE GRANTED SEWER EASEMENTS TO TRUMBULL COUNTY. SAID EASEMENTS BEING A STRIP OF LAND 57 FEET IN WIDTH, MEASURED AT RIGHT ANGLES FROM THE ℄ OF R/W OF USR 422.

PCL. NO.	EASEMENT RECORDING DATA
10	VOL. 764, PG. 1023
12-T	VOL. 784, PG. 881
14-T	VOL. 753, PG. 504
16-WA	VOL. 746, PG. 630
18-WA	VOL. 751, PG. 543
20-WA	VOL. 746, PG. 348
22-WA	VOL. 743, PG. 39
24-WA	VOL. 746, PG. 351
26-WD	VOL. 745, PG. 474
28-WD	VOL. 748, PG. 884 & VOL. 745, PG. 910
30-T	VOL. 743, PG. 120
32-T	VOL. 743, PG. 129

*(26/SA) NOTE: OWNERS COMPENSATED FOR FLOODING AND PONDING OF WATER TO THEIR BUSINESS by "SPECIAL WAIVER OF DAMAGE," DATED 4-3-74

"U" FUNDS

SEE R/W SHEET 22 FOR BEARINGS & DISTANCES

ADDED PCL 26-SA - 5-3-74	
ADDED PR AREAS PCLS. 20-PR & 24-PR	12-12-72
DELETED PCLS. 26-WA, 28-WA, A-WA & B-WA	11-18-71
REVISED TAKE PCL 11-WD	6-17-71
ADDED EXISTING EASEMENTS FOR PARCELS TO THIS RIGHT OF THE ℄	6-18-71
REVISED BEGIN PROJECT & ACQUISITION FLAGS AND DELETED PARCELS 11-WD & 13-WD	7-28-71
DELETED PCLS 15-WA, 15-AWA, 20-WA & 20-A-WA	8-18-71
REVISED AREA PCL 14-T, ADDED PCL 28-WA & CHANGED PCL 30T TO 30-WA	8-23-71
CHANGED PARCEL 14-WA TO 14-T-1 & ADDED BRG & DIST. TO PCLS 14-T & 14-T-1	11-2-71
Completion Date	

SCALE IN FEET
50 25 0 50 100

BRUNING 44-560 10943

RIGHT OF WAY SHEET STA. 772+00 TO STA. 796+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	U-522(27)	

TRU.-422-14.67

15
22

TRUMBULL COUNTY
HOWLAND TOWNSHIP
T-4N R-3W
LOT 41

GARGHILL LITTLE FARMS PLAT
VOL. 9, PG. 46

29 T — TBA 0.14 Ac.
DRIVES & GRADING
THE HARRY WINTER CONSTRUCTION CO., AN OHIO CORPORATION AND ALBERT TUBER

29 WA — DRIVE
MAX E. PEARLSTEIN, JANYCE B. PEARLSTEIN, AARON HANK AND EMIL HANK

31 — THE PINEVIEW MEMORIAL PARK ASSOCIATION, A CORPORATION

Cemetery

BEGIN SHEET STA. 796+00

MATCH LINE STA. 808+00

Lot 41 / Lot 40 / Lot 28 / Lot 26 / Lot 25 / Lot 22 / Lot 21

Conc. Blk. Bldg.

Construction Limits

Exist. R/W

S.46°-29'-30"E. 803 ℄ U.S. 422

TO Deep Curb

Overhead Sign

Sign Not To Be Disturbed

See Detail "A"

See Detail "B"

Note: Sign not to be Disturbed

Drive F. J. Strube

Lot 41 / Lot 40 Sarah Parish

Existing Sewer Easement to Trumbull County Vol. 830, Pg. 1027

Existing Sewer Easement, 57 Feet in Width, To Trumbull County, Vol. 743, Pg. 129

Existing Sewer Easement, 57 Feet in Width, To Trumbull County, Vol. 731, Pg. 214

32 T — TBA 0.01 Ac. (25 S.F.)
32 T — TBA 0.03 Ac. DRIVES & GRADING
JOSEPH SARKIES

34 — TBA 0.01 Ac. (25 S.F.)
34 T — TBA 0.01 Ac. GRADING
JOHN IACOZILI AND MARY IACOZILI

36 T — TBA 0.01 Ac. (25 S.F.)
36 T — TBA 0.06 Ac. DRIVE & GRADING
36 WA — DRIVE
JOSEPH J. COMPARATO

38 WA — DRIVE
FERDINAND J. RENZ AND JULIA RENZ

40 WA — DRIVE

42 A WA — DRIVE

44 WA — DRIVE

44 A WA — DRIVE

MARK FIGETAKIS

ANGELO HAIDARG, JOHN BELLAS & GUS KOUPAS

15'± Bldg. Set Back

Sarkies Enterprises, Inc.

Dead Water Line

Phone Booth

Sign

Bldg

Scale in Feet: 50 25 0 50 100

31 T — DRIVE TBA 1,000 S.F.

31 A T — DRIVE TBA 708 S.F.

46 T — TBA 0.14 Ac. CESIDA FIORE ET AL

"DETAIL A" NOT TO SCALE

32 — TBA 0.01 Ac. (25 S.F.)
JOSEPH SARKIES

34 — TBA 0.01 Ac. (25 S.F.)
JOHN IACOZILI & MARY IACOZILI

"DETAIL B" NOT TO SCALE

36 — TBA 0.01 Ac. (25 S.F.)
JOSEPH J. COMPARATO

TRUMBULL COUNTY
HOWLAND TOWNSHIP
T-4N R-3W
LOT 41

EXIST. CURVE DATA
Δ = 27°37' Lt.
D = 3°00'
T = 469.41'
L = 920.56'
E = 56.84'
R = 1909.86'

GARGHILL LITTLE FARMS PLAT
VOL. 9, PG. 46

31 — THE PINEVIEW MEMORIAL PARK ASSOCIATION, A CORPORATION

Cemetery

MATCH LINE STA. 808+00

Lot 18 / Lot 17 / Lot 14 / Lot 13 / Lot 4 / Lot 3 / Lot 21

T.S. Sta. 810+51.40

P.C. Sta. 812+60.46

S.C. Sta. 813+51.40

John E. Yakovac and James R. Soda

Charles Sferra, Samuel Petkovich and Samuel D'Agati

J. J. D. Inc., an Ohio Corporation

Construction Limits

Exist. R/W

S.46°-29'-30"E.

℄ of Const. 2 / ℄ of R/W US 422

Sign Not To Be Damaged

Light Not To Be Disturbed

Bit. Conc. Parking Area. Note: Planter Box With Sign Not To Be Disturbed

Chain Link Fence

1½ Sty. Fr. El Rio Rest.

2½ Sty. Fr. Rest.

Service Station

Tele. Booth

Hse.

Guerino Abruzzi DBA Cafe 422, AKA Guerino Abruzzi, AKA Guerino Abruzzo

Sergasco, Inc., A Delaware Corporation

Mary Nicastro

Scale in Feet: 50 25 0 50 100

46 T — TBA 0.14 Ac. DRIVES & GRADING
CESIDA FIORE ET AL

52 T — TBA 0.11 Ac. DRIVE & GRADING
THE TOWN AND COUNTRY MOTEL COMPANY, A PARTNERSHIP

54 — NO TAKE

56 — NO TAKE

58 PR — T.B.A. 0.09 Ac.

33 WA — DRIVE

35 WA — DRIVE

37 — J. J. D. INC., AN OHIO CORPORATION

"U" FUNDS

CONSTRUCTION CURVE DATA
P.I. Sta. 817+29.87

Δ = 27°37'00" Lt.	D_s = 4°00'00"
Δ_c = 19°37'00"	D_c = 1°19'59"
D_c = 2°40'00"	L.T. = 200.04'
R_c = 2,148.59'	S.T. = 100.04'
L_c = 735.69'	L.C. = 299.93'
L_s = 300.00'	E_s = 65.73'
T_s = 678.47'	k = 149.97'
X_c = 299.84	p = 1.74'
Y_c = 6.98'	

Added PR Area Pcl. 58 PR	12-13-72
Deleted Drive At Sta. 819+57 Lt.	1-25-72
Added Drive At Sta. 819+75 Lt.	
Deleted Pcls. 56-T & 58-T	11-18-71
Added Parcel 40 A-WA - Deleted Pcl. 42	11-12-71
Deleted Drive At Sta. 803+43 - Rt. Added	
Drives At Sta. 802+75 & 803+61 - Rt.	
Deleted Pcl. 34 A-WA	10-5-71
Completion Date	

LINE SHEET	BY	DATE	CHECKED BY	DATE
SURVEYED	Salomon	3-25-70	K.W.	6-22-70
PLOTTED	Salomon	6-24-70		
INKED				
DESIGNED				
QUANTITIES				

Changed Pcl. 58 PR 11-30-72
Changed Drives Pcl. 58 11-30-72

BRUNING 44-560 10943

RIGHT OF WAY SHEET STA. 796+00 TO STA. 820+00

FED. RD DIVISION	STATE	PROJECT	
2	OHIO	U-522(27)	

TRU.-422-14.67

16/22

TRUMBULL COUNTY
HOWLAND TOWNSHIP
T-4N R-3W
LOT 41

J.J.D., INC. AN OHIO CORPORATION (37) LOT 3

(39) ESTATE OF CLARENCE W. OTTO aka C.W. OTTO & MARY C. OTTO (Decd.)

GARGHILL LITTLE FARMS PLAT Vol. 9, Pg. 46 LOT 2

HARRY S. KEFFALOS & MARY KEFFALOS (65A) (65A-WD)

EASEMENT TO REPROCO, INC. V. 792, P. 641

CITY OF NILES - CORP. LIMITS

REPROCO, INC., A DELAWARE CORPORATION (63) (63-WA) (63-AWA)

DURATION OF WORK LESS THAN 60 DAYS

CERNI MOTOR SALES, INC. (67-WD) (67-T)

JOHN CERNI & CHARLES CERNI

THOMAS G. HAIDARIS, GEORGE G. HAIDARIS & ANGELO HAIDARIS

NILES ASSOCIATES, AN OHIO LIMITED PARTNERSHIP (72-QC) (72-S) (72-T)

TREMARCO CORPORATION, A DELAWARE CORPORATION (62-T)

SUN OIL COMPANY OF PENNSYLVANIA, A PENNSYLVANIA CORPORATION (70-S) (70-T)

CITY OF NILES CORPORATION LIMITS

GUERINO ABRUZZI dba CAFE 422 aka GUERINO ABRUZZI aka GUERINO ABRUZZO (58-PR) T.B.A. 0.09 Ac.

FRANK FETCHET & CAROLYN J. FETCHET

PM GAS WASH CO.

BEGIN SHEET STA. 820+00

MATCH LINE STA. 832+00

EXIST. R/W 7

CONSTRUCTION LIMITS

EXIST. R/W 2

R/W

Bit. Conc. Parking Area

30' INGRESS & EGRESS EASEMENT TO FRANK FETCHET & CAROLYN J. FETCHET Vol. 842 Pg. 1107

CURVE DATA

P.I. STA. 844+93.94
Δ = 20°-02'-30" RT
D = 0°-30'
R = 11459.16'
L = 4008.34'
T = 2024.85
E = 177.46

TBA 0.054 Ac. PRO 0.042 Ac. TOTAL 0.17 Ac. (65) (65-WD) (65-T)

T.B.A. 0.094 Ac. DRIVE & GRADING

EXISTING CURVE DATA

Δ = 27°37' Lt.
D = 3°00'
T = 469.41'
L = 920.56'
E = 56.84'
R = 1909.86'

CONSTRUCTION CURVE DATA

P.I. STA. 817+29.87
Δ = 27°37' Lt.
Dc = 19°37' Lt.
Rc = 2148.59'
Lc = 735.62'
Ls = 300'
Ts = 678.47'
Xc = 299.85'
Yc = 6.98'
θs = 4°00'
L.T. = 200.05'
S.T. = 100.05'
L.C. = 299.93'
Es = 65.73'
K = 149.98'
P = 1.74'

STA Ⓑ = 825+77.12 - U.S.R. 422 10+00 ℄ R/W HEATON N. RD.

STA Ⓐ = 825+99.73 - U.S.R. 422 10+00 ℄ R/W HEATON N. RD.

(60-WD) T.B.A. 511 Sq. Ft.
(60-T) T.B.A. 344 Sq. Ft. DRIVE & GRADING
(60A-WD) T.B.A. 751 Sq. Ft.
(60A-T) T.B.A. 751 Sq. Ft. GRADING
(62-WD) T.B.A. 4630 Sq. Ft.
(62-T) T.B.A. 3060 Sq. Ft. DRIVES & GRADING
(69-WD) T.B.A. 565 S.F. DRIVE & GRADING.
(71-T) T.B.A. 1,447 S.F. DRIVES & GRADING.
(69-WD) T.B.A. 315 S.F. PRO. 1638 S.F. TOTAL 1953 S.F.

NOTE: SEE SH. 19 FOR BRGS. & DISTS.

NOTE: FOR DETAILS OF PARCELS 39, 63 & 65A SEE SHEET NO. 20

NOTE: FOR BEARINGS & DISTANCES OF PARCELS SEE SHEET NO. 22

SCALE IN FEET
50 25 0 50 100

DELETED DRIVE AT STA. 821+41 Lt., ADDED DRIVES AT 820+50 Lt & 821+41 Lt. 1-25-72

Salomon	3-26-70	K.W.
Salomon	6-29-70	
Name Revised Pcl. 39	12-14-71	

TRUMBULL COUNTY
HOWLAND TOWNSHIP
T-4N R-3W
LOT 41
CITY OF NILES

RAYMOND E. LONSWAY (73-WA) DRIVE

WILLIAM NILES CORP., AN OHIO CORPORATION (75-S) T.B.A. 918 S.F. (75-T) T.B.A. 2069 S.F. GRADING

THOMAS G. HAIDARIS, GEORGE G. HAIDARIS & ANGELO HAIDARIS (71-T)

EXISTING R/W 7

R/W

Bit. Conc. ParKing Area

EASEMENT TO CITY OF NILES, OHIO FOR SANITARY SEWER

(68-WD) TBA 15,820 S.F. PRO 31,806 S.F. CONT. 47,626 S.F.

30' EASEMENT TO BUCKEYE PIPE LINE COMPANY VOL. 683, PG. 57 & VOL. 507, PG. 554

THIRD WARREN CORP., AN OHIO CORPORATION

NOTE: ALL PARCELS ARE "U" FUNDS EXCEPT PARCELS 39-WD, 39-T, 60-WD, 60-T, 60A-WD, 60A-T, 62-WD, 62-T, 63-WD, 63-T, 63-WA, 65-WD, 65-T, 65AWD, 65D-T, 67-WD, 67-T, 69-WD, 69-T, 70-S, 70-T, 72-WD, 72-S & 72-T WHICH ARE "T" FUNDS

CURVE DATA

P.I. STA. 844+93.94
Δ = 20°-02'-30"
D = 0°-30'
R = 11459.16'
L = 4008.34'
T = 2024.85
E = 177.46

(77) T.B.A. 504 S.F.
(77-T) T.B.A. 4807 S.F. DRIVES & GRADING

THE SECOND NATIONAL BANK OF WARREN, TRUSTEE

PAUL G. CAPITO & JULIA G. CAPITO

(79) TBA 1,445 S.F. PRO 5,540 S.F.
(79-T) TBA 502 S.F. DRIVES & GRADING

(74-T) TBA 2,153 S.F. GRADING

HAROLD E. HAUGHTON & LILLIAN R. HAUGHTON

(76-T) TBA 1,665 S.F. DRIVE & GRADING

ALTA CHEONCHEO aka ALTO CHEONCHEO

LOT 1 LOT 2 LOT 3 LOT 4

VALLEY HOME GARDEN ACRES VOL. 11, PG. 22

MATCH LINE STA. 832+00

END SHEET STA. 844+00

EXIST. R/W

PROPOSED R/W

℄ HEATON - NORTH RD. (CLI 54)

℄ CONSTRUCTION

DETAIL "A" NO SCALE

SCALE IN FEET
50 25 0 50 100

PARCEL 70 NAME REVISION 3-29-72

DELETED PCLS. 58-T & 67-T	11-19-71
ADDED EASEMENT TO BUCKEYE PIPE LINE CO. PCLS. 75-T & 68	11-11-71
ADDED ℄ & DIST & REVISED T.B.A. PCL. 77-T	11-1-71
CONVERTED PCL. 63-T TO 63AWA per Guzak 10-22-71	
DELETED PCL. 67-T & ADDED PCL. 67WA	10-8-71
REVISED FUNDING	9-19-71
ADDED PARCEL 73WA	9-7-71
ADDED PCL. 63-WA	6-17-71
Completion Date	

Rev. 72WD to 72 QC, R.F. 3-14-73
Added PR AREA, Rev. to 58-PR 12-13-72
Changed Parcel 58 to 58-PR 11-30-72
Deleted Drives Pcl. 58-T & Pcl. 62-T 2-15-72
Added Sanitary Sewer Easement Pcl. 68 1-3-72

Rev. Name Pcl. 75-S 5-9-73

BRUNING 44-560 10945

RIGHT OF WAY SHEET STA. 820+00 TO STA. 844+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

TRU.- 422 - 14.67

17
22

TRUMBULL COUNTY
HOWLAND TOWNSHIP
T-4N R-3W
LOT 41
CITY OF NILES

CURVE DATA
P.I. STA 844+93.94
Δ = 20°-02'-30"
D = 0°-30'
R = 11459.16'
L = 4008.34'
T = 2024.85'
E = 177.46'

BEGIN SHEET STA. 844+00

MARY SCARNECCHIA ET AL
FOR DETAILS OF PARCELS
81, T+A-T SEE DETAIL "A"

S 74°-06'30"E Δ S 54°-04'-E

60' EASEMENT FOR INGRESS & EGRESS V. 842, P. 806

TO East Wood Mall

83 T — TBA 1.937 S.F. DRIVE

83 — EAST WOOD MALL
PARK SOUTH CORPORATION

846+40 50'LT.
846+95 90'LT.
846+95 55'LT.

Car Wash
844+61.77 50.00 LT.
844+68.95 40.00 LT.
Steel Post
Steel Post
SEE DETAIL "A"

79 — 81 T — 81 — 81 A-T

EXISTING R/W

845 846 847 848 849 850 851 852 853 854 855

℄ U.S. 422

M.H. C. 12"
Bit. Conc.
Traffic Signal Pole
Sign Marker
Stone Block Bldg. Arby's
78 No Take
Walk
2-St. Br. Bldg.
76 T
Alta Cheoncheo aka Alto Cheoncheo
Lot 4
Rose M. DeChristofaro & Felicia E. DiChristofaro
Lot 5
S 8°-56'-30" W 155.00'
Suspend Work Sta. 846+98

EXISTING R/W — EXISTING R/W — Valley Blvd.

LOT 41 — LOT 46 — LOT 42

MATCH LINE STA. 856+00

81 T.B.A. 613 S.F.
81 T — T.B.A. 402 S.F. DRIVE & GRADING
81 AT — T.B.A. 520 S.F. DRIVE & GRADING

DETAIL "A" NOT TO SCALE

845+60 50'LT.
845+60 43'LT.
844+61.77 50'LT.
845+20 50'LT.
845+37 43'LT.
845+43 43'LT.
846+38.34 50'LT.
846+38.78 48.54 LT.
846+39.76 40'LT.
846+41.38 40.00 LT.
I.P. Fnd. & Used
846+46.07 24.63 LT.
846+21.14 25.45 LT.
846+30 43'LT.
845+37 43'LT.
845+43 43'LT.
+20 43'LT.
+63.79 43'LT.
846+65 40'LT.
R/W
EXIST. R/W
℄ OF SURVEY
847

SCALE IN FEET
50 25 0 50 100

TRUMBULL COUNTY
HOWLAND TOWNSHIP
T-4N R-3W
LOT 42
CITY OF NILES

CURVE DATA
P.I. STA 844+93.94
Δ = 20°-02'-30"
D = 0°-30'
R = 11459.16'
L = 4008.34'
T = 2024.85'
E = 177.46'

MATCH LINE STA. 856+00

LOT 42 — LOT 45 — LOT 46

Mines Rd. — EXISTING R/W — EXISTING R/W

℄ U.S. 422

857 858 859 860 861 862 863 864 865 866 867

8" San Sewer — M.H. — M.H.

EXISTING R/W

℄ SURVEY U.S. 422
EXISTING R/W
R/W
864+62.50 40'Rt.
864+62.50 43'Rt.
864+77.50 40'Rt.
864+77.50 43'Rt.
82
DETAIL "C" NO SCALE

TRUMBULL COUNTY
HOWLAND TOWNSHIP
T-4-N, R-3-W
LOT 45
CITY OF NILES

MATCH LINE "A-A"

35' 35'
EXISTING R/W
Mines Rd. RELOCATED
EXIST. 24" CONC. PIPE BY OTHERS
EXIST. R/W
Mines Rd. ACCESS TO East Wood Mall
863+89.14 90'LT.
863+89.10 80'LT.
I.P. Fnd.
I.P. F&U
863+88.76 0.54'LT.
864+20.26 55.14 LT.
864+29.86 50'LT.
864+39.93 50'LT.
85 S
85 T
85 WD
M.H.
EXIST. 36"?
EXISTING 36"?
SEE DETAIL "B"
SEE DETAIL "C"
R/W
EXISTING R/W
C.B.
S.G.
OVERHEAD SIGN
S 54°-04'-E.
R=11459.16'
EXISTING R/W
Q Hyd.
Sign
82 T.B.A. 15 S.F.
82 T
TBA 8,871 S.F. DRIVES & GRADING
EXIST. R/W
GYPSY LANE
30' 30'
EXIST. R/W
80
ALBEE HOMES, INC. No Take
864+40 40.00 Rt.
864+77.43 40.00 Rt.
864+77.43 50 Rt.
P.T. 864+77.43
ROMAR, INC.
HOWLAND ENTERPRISES, INC., fka. THE LAVERNE DRIVE-IN-THEATER CORPORATION, AN OHIO CORPORATION
END SHEET STA. 868+00

85 WD TBA 7,240 S.F.
PRO 52,975 S.F.
CONT 60,215 S.F.
85 T TBA 8069 S.F. DRIVES & GRADING
85 S TBA 2,189 S.F.
NOTE: 505 S.F. OF 85-T OVERLAPS 85-S

863+99.12 264.42 LT.
864+08.37 268.85 LT.
MINES RD.
EXIST. R/W
EXIST. 60"?
EXIST. JUNCTION CHAMBER
EXIST. 12"
EXIST. 24"
EXIST. 36"?
MATCH LINE "A-A"

864+70 55 Lt.
85 T
864+70 50 Lt.
R/W
864+80 50 Lt.
85 WD
R/W
R/W
EXISTING R/W
℄ OF SURVEY US 422
S 54°04'00"E
867
DETAIL "B" NOT TO SCALE

SEE R/W SHEET 22 FOR BEARINGS & DISTANCES

"U" FUNDS

SCALE IN FEET
50 25 0 50 100

	BY	DATE
SURVEYED		
PLOTTED	Solomon	3-19-70
INKED	Solomon	6-23-70
DESIGNED		
QUANTITIES		

LINE SHEET — CHECKED BY: KW — DATE: 6-23-70

Added Pcl. 82 Revised Area Pcl. 82-T &	10-18-71
Added Overhead Sign At Sta. 864+70	
Revised Pcl. 81 & Added 81-T & A-T	11-16-71
Completion Date	

BRUNING 44-560 10943

RIGHT OF WAY SHEET STA. 844+00 TO STA. 868+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

TRU. 422 14.67

18
22

TRUMBULL COUNTY
HOWLAND TOWNSHIP
T-4N R-3W
LOT 45
CITY OF NILES

ROMAR, INC.

(85 WD) TBA 7,240 S.F.
PRO 52,975 S.F.
CONT. 60,215 S.F.

(85 T) TBA 8069 S.F.
DRIVES & GRADING

HOWLAND HOMES SUBDIVISION, PLAT No 3, VOL. 11, PG. 38

CARMEN DELLATRECCHIA
LOT 186
1 Sty Brick Motel
NO TAKE

LOT 187
JAMES BERNARD

TRUMBULL NEW THEATRE, INC.
LOT 188
LOT 189
LOT 190
JOSEPH A. GILMOUR

(91 WD) TBA 302 S.F.
PRO. 14 S.F.
CONT 316 S.F.

(91 T) TBA 2,307 S.F.
DRIVE & GRADING
1-Sty Brick T.N.T. Playhouse

NOTE: SEE DETAIL FOR P.CL. 91-WD

(89 T) TBA 1,307.5 F.
DRIVE & GRADING
1-Sty Conc. Bldg.

(87) NO TAKE
Pond
Evgrs
3" Pine
Maple
Elm

SEE DETAIL "B" FOR PCL. 93-WD

(93 WD) TBA 9 SF.
PRO 61 S.F.
CONT 70 S.F.

(93 T) TBA 675 S.F.
GRADING

NOTE: DRIVE TO THE LEFT OF ℄ STA. 880+42 TO BE ABANDONED

BEGIN SHEET STA. 868+00

MATCH SHEET STA. 880+00

(85 T) SEE DETAIL "C"

Bituminous Concrete Curb

EXIST. 36" ℄ M.H.

EXIST. 8" ℄ SAN.

EXIST. 12" ℄ STORM

R/W

EXISTING R/W

Bit. Conc. Curb

EXIST. R/W

Overhead Sign

℄ U.S. 422 S.54°-04'-E.

℄ OF CONSTRUCTION

℄ OF R/W

(82 T) T.B.A. 8,871 S.F.
DRIVES & GRADING

NOTE: PLANTER NOT TO BE DAMAGED

PLANTER

EXIST. DR.

(84 WA) (84 T) DRIVE

LINCOLN HOMES COMPANY, A PENNSYLVANIA CORPORATION
LOT 21 CITY LOT 7387
LOT 22 CITY LOT 7388

1½ Sty Fr. Hse.
1½ Sty Brick House
1½ Sty wood & Brick House
Brick Bldg. Car Wash
Gas meter
Sign

(86 T) TBA 1,252 S.F.
DRIVES
NOTE: LIGHTS & TREE IN "T" NOT TO BE DISTURBED
CHARLES P. LAMONICA & THOMAS J. MATASH
LOT 23 CITY LOT 7389

(88 T) T.B.A. 870 S.F.
DRIVE
NOTE: SIGNS IN "T" NOT TO BE DISTURBED

(90) NO TAKE
RICHARD J. SKIFFEY & ROSE RAE SKIFFEY
LOT 25 CITYLOT 7391

FRED C. MORRIS & CLYDE H. FISHER
LOT 26 City Lot 7392

Swim Pool

HOWLAND INTERPRISES, INC. f.k.a.
THE LAVERNE DRIVE-IN- THEATER CORPORATION,
AN OHIO CORPORATION

TRUMBULL INVESTMENT CO., INC., AN OHIO CORPORATION
LOT 24 CITY LOT 7390

(A/W Owen) P.C. 877+19.50

P.C. 876+76.56

P.C. 879+61.46

P.C. 879+47.10

P.C. 879+27.63

P.C. 879+07.70

P.C. 878+87.77

P.C. 878+68.27

P.C. 878+48.27

P.C. 878+27.63

P.C. 878+07.70

P.C. 877+87.77

P.C. 877+68.27

P.C. 877+48.27

P.C. 877+27.63

P.C. 877+07.70

P.C. 876+87.77

P.C. 876+68.27

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P.C. 876+07.70

P.C. 875+87.77

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P.C. 875+27.63

P.C. 875+07.70

P.C. 874+87.77

P.C. 874+68.27

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P.C. 874+07.70

P.C. 873+87.77

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P.C. 871+07.70

P.C. 870+87.77

P.C. 870+68.27

P.C. 870+48.27

P.C. 870+27.63

P.C. 870+07.70

P.C. 869+87.77

P.C. 869+68.27

P.C. 869+48.27

P.C. 869+27.63

P.C. 869+07.70

P.C. 868+87.77

P.C. 868+68.27

P.C. 868+48.27

P.C. 868+27.63

P.C. 868+07.70

P.C. 867+87.77

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P.C. 866+87.77

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P.C. 866+07.70

P.C. 865+87.77

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P.C. 839+27.63

P.C. 839+07.70

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P.C. 838+68.27

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P.C. 836+27.63

P.C. 836+07.70

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P.C. 835+68.27

P.C. 835+48.27

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P.C. 828+07.70

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P.C. 747+48.27

P.C. 747+27.63

P.C. 747+07.70

P.C. 746+87.77

P.C. 746+68.27

P.C. 746+48.27

P.C. 746+27.63

P.C. 746+07.70

P.C. 745+87.77

P.C. 745+68.27

P.C. 745+48.27

P.C. 745+27.63

P.C. 745+07.70

P.C. 744+87.77

P.C. 744+68.27

P.C. 744+48.27

P.C. 744+27.63

P.C. 744+07.70

P.C. 743+87.77

P.C. 743+68.27

P.C. 743+48.27

P.C. 743+27.63

P.C. 743+07.70

P.C. 742+87.77

P.C. 742+68.27

P.C. 742+48.27

P.C. 742+27.63

P.C. 742+07.70

P.C. 741+87.77

P.C. 741+68.27

P.C. 741+48.27

P.C. 741+27.63

P.C. 741+07.70

P.C. 740+87.77

P.C. 740+68.27

P.C. 740+48.27

P.C. 740+27.63

P.C. 740+07.70

P.C. 739+87.77

P.C. 739+68.27

P.C. 739+48.27

P.C. 739+27.63

P.C. 739+07.70

P.C. 738+87.77

P.C. 738+68.27

P.C. 738+48.27

P.C. 738+27.63

P.C. 738+07.70

P.C. 737+87.77

P.C. 737+68.27

P.C. 737+48.27

P.C. 737+27.63

P.C. 737+07.70

P.C. 736+87.77

P.C. 736+68.27

P.C. 736+48.27

P.C. 736+27.63

P.C. 736+07.70

P.C. 735+87.77

P.C. 735+68.27

P.C. 735+48.27

P.C. 735+27.63

P.C. 735+07.70

P.C. 734+87.77

P.C. 734+68.27

P.C. 734+48.27

P.C. 734+27.63

P.C. 734+07.70

P.C. 733+87.77

P.C. 733+68.27

P.C. 733+48.27

P.C. 733+27.63

P.C. 733+07.70

P.C. 732+87.77

P.C. 732+68.27

P.C. 732+48.27

P.C. 732+27.63

P.C. 732+07.70

P.C. 731+87.77

P.C. 731+68.27

P.C. 731+48.27

P.C. 731+27.63

P.C. 731+07.70

P.C. 730+87.77

P.C. 730+68.27

P.C. 730+48.27

P.C. 730+27.63

P.C. 730+07.70

P.C. 729+87.77

P.C. 729+68.27

P.C. 729+48.27

P.C. 729+27.63

P.C. 729+07.70

P.C. 728+87.77

P.C. 728+68.27

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P.C. 725+07.70

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P.C. 724+07.70

P.C. 723+87.77

P.C. 723+68.27

P.C. 723+48.27

P.C. 723+27.63

P.C. 723+07.70

P.C. 722+87.77

P.C. 722+68.27

P.C. 722+48.27

P.C. 722+27.63

P.C. 722+07.70

P.C. 721+87.77

P.C. 721+68.27

P.C. 721+48.27

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P.C. 721+07.70

P.C. 720+87.77

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P.C. 720+48.27

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P.C. 720+07.70

P.C. 719+87.77

P.C. 719+68.27

P.C. 719+48.27

P.C. 719+27.63

P.C. 719+07.70

P.C. 718+87.77

P.C. 718+68.27

P.C. 718+48.27

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P.C. 713+07.70

P.C. 712+87.77

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P.C. 711+27.63

P.C. 711+07.70

P.C. 710+87.77

P.C. 710+68.27

P.C. 710+48.27

P.C. 710+27.63

P.C. 710+07.70

P.C. 709+87.77

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P.C. 700+87.77

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P.C. 617+07.70

P.C. 616+87.77

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P.C. 616+07.70

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

TRU. 422 1467

19/22

BEGIN SHEET STA. 892+00

MATCH LINE STA. 904+00

DEF. STA. 894+87.92 Δ=0°-21'-00" RT.

THE COMPARATO REALTY COMPANY

(117 WD) TBA 3,340 S.F. PRO 11,160 S.F. CONT 20,500 S.F.

(117 T) TBA 763 S.F. WORKING SPACE

(117 A-T) TBA 1,603 S.F. WORKING SPACE & DRIVE

FRANKLYN REALTY COMPANY, AN OHIO CORPORATION

(119 WD) TBA 1,153 S.F. PRO 6,001 S.F. CONT. 7,154 S.F.

(119 T) TBA 917 S.F. DRIVES

Z.D. WEST, INC. A DELAWARE CORPORATION

(123 WD) TBA 649 S.F. CONT 4,649 S.F.

TRUMBULL COUNTY
HOWLAND TOWNSHIP
LOT 45
T-4N R-3W

PAUL A. GUARNIERI & BERNARD W. ROSENBERG

(125) T.B.A. 426 S.F.

(125 WA) DRIVE

(125 WA) DRIVES

(62 T) SEE SHEET NO. 16

(13) S 74°06'30" E ~ 49.87'
(12) R = 11,414.16', ARC L = 39.77'
CHD. L. = 39.77' CHD. BRG. = S 74°00'31" E
(11) R = 30.00', ARC L = 49.32'
CHD. L. = 43.95' CHD. BRG. = S 26°48'30" E
(10) S 20°17'31" W ~ 28.21'
(9) N 67°35'30" W ~ 9.15'
(8) S 20°17'31" W ~ 6.00'
(7) S 67°35'30" E ~ 9.15'
(6) S 20°17'31" W ~ 17.01'
(5) S 17°40'48" W ~ 60.66'
(15) N 74°05'30" E ~ 25.16'
(16) N 22°24'30" E ~ 113.83'
(17) N 08°30'54" W ~ 28.45'
(18) N 74°00'31" E ~ 39.75'
(19) N 74°06'30" W ~ 50.44'
(20) N 22°23'30" E ~ 5.03'

SCALE IN FEET
50 25 0 50 100

NOTE: FOR DETAILS OF PARCELS 96A-WD, 96A-WA, 103B-WA, 106-WD, 106-T, 108-WD, 108-T, 115-WD & 115-T, SEE R/W SHEET 21.

C.R. PROPERTIES, INC., AN OHIO CORPORATION

(96 WD) TBA 3,193 S.F.

(96 T) TBA 11,167 S.F. DRIVE & WORKING SPACE

THE STANDARD OIL COMPANY, AN OHIO CORPORATION

LOT 2

LOT 3

LOT 4

(106 T) RICHARD S. HAWKES

(106 WD) RICHARD S. HAWKES

(110) NO TAKE
THE I.E.R. COMPANY, AN OHIO CORPORATION

(112) NO TAKE
THE NILES-WARREN MOTOR LODGE, INC., AN OHIO CORPORATION

PAYLESS STATIONS, INC., A KENTUCKY CORPORATION

(114 S)

RICHARD S. HAWKES PLAT No 1, VOL. 14, PG. 100

TRUMBULL COUNTY
HOWLAND TOWNSHIP
T-4N R-3W
LOT

TRUMBULL COUNTY
WEATHERSFIELD TOWNSHIP
T-3N R-3W
LOT

LINCOLN REALTY COMPANY PLAT No 1
VOL. 12 PG. 32

ANDREW P. MALLIN & MARGARET W. MALLIN

RICHARD E. ALBERINI a.k.a. RICHARD ALBERINI & GILDA R. ALBERINI a.k.a. GILDA ROSE ALBERINI

HOLIDAY INN WARREN-NILES OHIO, INC., AN OHIO CORPORATION

CURVE DATA
P.I. STA. 906+57.05
Δ = 0°-20'-00" LT.
D = 0°-10'
R = 34377.48
T = 100.00'
L = 200.00'
E = 0.15

P.C. STA. 905+57.05

P.T. STA. 907+57.05

(127 WA) DRIVE & GRADING
Note: Light & Flag Poles & Conc. Curb Not To Be Disturbed

(129 WA)

(129 T) T.B.A. 177 S.F. DRIVE & GRADING

(131) NO TAKE

(133 T)

(114 WA)

(114 S) T.B.A. 863 S.F.

(116 S) T.B.A. 147 S.F.

(116 WA) DRIVES

(118 WA) DRIVE

(122 WA) DRIVE

GEORGE W. GALES & EDITH M. GALES

JULIA A. HOWE

EUGENE B. KEHN

M & M MOTELS, INC., AN OHIO CORPORATION

TONY A. MARR & FANNIE M. MARR

(124 A) NO TAKE

(124) NO TAKE

END SHEET STA. 916+00

NOTE: ALL PARCELS ARE U FUNDS EXCEPT PARCELS 96-WD, 96A-WD, 96-WA-96A-WA, 103B-WA, 106-WD, 106-T 108-WD, 108-T, 115-WD, 115-T, 117-WD, 117-T, 117A-T, 119-WD, 119-T, 123-WD, 123-T, 125 125-WA & 125A-WA WHICH ARE T FUNDS

SEE R/W SHEET 22 FOR BEARINGS & DISTANCES

SCALE IN FEET
50 25 0 50 100

REVISED R/W PCL. 115	3-1-73
ADDED PARCELS 120 WA & 122 WA	8-25-71
REVISED FUNDING	9-10-71
CONVERTED "T's to WA's PCL. 96 PER CRAJAIC	9-29-71
ADDED NOTE ABOUT SIGN PCL 117A-T	11-1-71
DELETED PCL 131-T	11-1-71
DELETED PCL 120 WA	11-12-71
REVISED 125 WD TO 125 EASEMENT	11-12-71
REVISED NAME PCL 123 WD	1-5-72
COMPLETION DATE	

ADDED BRGS. & DISTS. PCL. 62T 1/29/74
11-27-73 REV. PCL 96 WA TO "T"

LINE SHEET	BY	DATE
SURVEYED	R.S.	3-21-70
PLOTTED	R.S.	7-15-70
INKED		
DENOTED		
QUANTITIES		

CHECKED BY: M.K.M. 7-6-70

BRUNING 44.560 10943

RIGHT OF WAY SHEET STA. 892+00 TO STA. 916+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

TRU.-422-14.67

20/22

LINCOLN REALTY CO. PLAT No. 1
VOL. 12 PG. 32

DEF. STA. 922+92.38
Δ = 0°-04'-00" LT.

TRUMBULL COUNTY
WEATHERSFIELD TOWNSHIP
LOT 4
T-3N R-3W

BEGIN SHEET STA. 916+00

END SHEET STA. 928+00

LINCOLN DRIVE 50'
EXISTING R/W

CORPORATION LIMITS CITY OF NILES

MICHAEL E. LESTER & CONNA A. LESTER aka CONNA NAN LESTER fka CONNA NAN SCHULTZ

(133 T) TBA 3701 S.F. DRIVE & GRADING

JOHN SLIWINSKI ET. AL.

(134 T) TBA 1641 S.F. GRADING

CONSTRUCTION LIMITS

OVERHEAD SIGN

EXISTING R/W

S. 37°-43'-E.

℄ U.S. 422

S. 37°-47'-E. CORP LIMITS CITY OF NILES

END PROJECT
STA 919+32.38
FED Nº. U-522(27)

END ACQUISITION
STA. 922+52.89

(124A) NO TAKE
TONY MARR, PAUL MARR & ROCCO CONSTANTINO

(126) NO TAKE
LOUIS DELUCIA

(128) NO TAKE
FULLY R. SPAIN

(130) NO TAKE
GREEN ACRES, INC.

TRUMBULL COUNTY
WEATHERSFIELD TOWNSHIP
LOT 5 T.3-N, R.3-W
CITY OF NILES

U-FUNDS

SCALE IN FEET
50 25 0 50 100

(39 T)
A-N 71°35'30"W - 18.70'
B-N 56°45'40"E - 27.47'
C-N 10°07'30"E - 195.88'
D-S 79°19'30"E - 10.00'
3-S 10°07'30"W - 195.79'
4-S 38°07'03"W - 24.42'

(37 T)
4-S 79° 52'30"E - 10.00'
5-S 10°07'30"W - 39.00'
6-N 79°52'30"W - 2.00'
7-S 10°07'30"W - 6.00'
8-S 79°52'30"E - 2.00'
9-S 10°07'30"W - 96.55'
11-N 79°19'30"W - 10.00'
12-N 10°07'30"E - 31.46'
13-N 79°52'30"W - 10.00'
14-N 10°07'30"E - 95.00'
15-N 03°54'40"W - 20.61'
16-N 25°22'48"E - 57.01'
17-S 10°07'30"W - 60.00'

(63 WD) TBA 0.01Ac. PRO 0.06Ac. CONT 0.07Ac.

(55 WD) TBA 0.02Ac. PRO 0.07Ac. CONT. 0.09Ac.

(55 T) TBA 0.05Ac. DRIVE & GRADING

(57 WD) TBA 0.03Ac. PRO 0.06Ac. CONT 0.09Ac.

(57 T) TBA 0.06Ac. DRIVES & GRADING

(59 WD) TBA 0.02Ac. PRO 0.06Ac. CONT 0.08Ac.

(59 T) TBA 0.02Ac. DRIVE & GRADING

(63 WD) TBA 0.06Ac. PRO. 0.18Ac. CONT 0.24Ac.

(63 AWA) TBA 0.06Ac. DRIVES & GRADING.

(63 WA) REMOVAL OF OVERHANG.

(59 T)
③ N10°07'30"E - 105.00'
⑤ S80°31'30"E - 10.00'
⑥ S10°07'30"W - 105.00'
⑦ N80°31'30"W - 10.00'

(60-B WD) T.B.A. 1329 S.F. P.R.O. 2014 S.F. TOTAL 3343 S.F.

(60-B T) T.B.A. 966 S.F. DRIVE & GRADING

(65 A WD) TBA 0.02Ac. PRO 0.04Ac. CONT 0.06Ac.

(65 A-T) TBA 0.03Ac. DRIVE & GRADING.

STA Ⓐ = 825+77.12 U.S.R. 422 = 10+00 ℄ R/W HEATON N. RD.
STA Ⓑ = 825+99.73 U.S.R. 422 = 10+00 ℄ R/W HEATON N. RD.

TRUMBULL COUNTY
HOWLAND TOWNSHIP
LOT 41
T-4N R-3W

GARGHILL LITTLE FARMS PLAT VOL. 9 PG. 46

LINE SHEET

BY	DATE	CHECKED BY	DATE
SURVEYED	Salomon	5-6-70	M.K.M.	7-14-70
PLOTTED	Salomon	7-20-70		
INKED				
DESIGNED				
QUANTITIES				

CONVERTED PCL 63-T TO 63WA PER GUIDANCE 10-22-71
REVISED NAME PCL 57 11-21-71
REVISED R/W LINE PCL 57WD 11-11-71
ADDED 864 & DIST. TO PCL 59-T 11-19-71
ADDED GAS TANKS PCL 62-T 2-15-72

P.M. GAS WASH CO.
(60 WD-1) TBA 1,474 S.F.
(60 T-1) TBA 4155 S.F.
DAVE & RECONNER'S EXISTING C.B.

FRANK BESHARA & FRANK FETCHET

TREMARCO CORPORATION, A DELAWARE CORPORATION

NOTE: FOR DETAILS OF PARCELS 62-WD & 62-T SEE SHEET Nº. 16

ESTATE OF CLARENCE W. OTTO AKA C.W. OTTO, Decd. & MARY C. OTTO

(39 WD) TBA 2,331 S.F. PRO 7008 S.F. CONT. 9,339 S.F.

(39 T) TBA 2688 S.F. GRADING

DURATION OF WORK: 60 DAYS
P.C. STA 824+69.09

J.J.D. INC., AN OHIO CORPORATION

(37 WD) TBA 4,264 S.F. PRO 7,096 S.F. CONT 11,360 S.F.

(37 T) TBA 2,988 S.F. DRIVE & GRADING
FOR BRG. & DIST: SEE ABOVE!

ANTHONY CIMINERO & NELLIE CIMINERO

(43 WD) TBA 1,091 S.F. PRO 4,375 S.F. CONT 5,466 S.F.

(45) NO TAKE
MYRON E. DAUM & FERN DAUM

(49) NO TAKE
MARY A. HARNAR

(51) NO TAKE
MANUEL J. SKOPOS & EUGENIA SKOPOS

JOSEPH C. COOK & BETTY C. COOK

FORREST W. SMITH & DOROTHY M. SMITH

THIRD WARREN CORP., AN OHIO CORPORATION

NILES ASSOCIATES, AN OHIO LIMITED PARTNERSHIP

THE SUN OIL CO. OF PENNSYLVANIA A PENNSYLVANIA CORPORATION

HARRY S. KEFFALOS & MARY KEFFALOS

DALE N. MILLS & MARY J. MILLS, OWNERS, SETH W. BARTLETTE & JANE BARTLETTE, HOLDERS OF LAND CONTRACT

CHRIST MICHELAKIS & MARGARET MICHELAKIS, OWNERS EMMANUEL N. MICHELAKIS & CHRISTINE MICHELAKIS, HOLDERS OF LAND CONTRACT

NOTE: FOR DETAILS OF PARCELS 70-ST SEE R/W SHEET 16

EASEMENT TO REDROCO, INC. FOR INGRESS & EGRESS

CORPORATION LIMITS CITY OF NILES

SEE R/W SHT. 16 FOR PCL. 65-WD

BEGIN WORK STA 4+40

END WORK STA 18+25

NAME REVISION PCL TO 3-29-72

SCALE IN FEET
50 25 0 50 100

FOR BEARINGS & DISTANCES SEE R/W SHEET 22

T.-FUNDS

REVISED DRIVE PARCEL 59-T	6-4-71
ADDED PCL 63-WA	6-17-71
DELETED PCLS 48-T, 37A-T, REVISED TBA'S ALL SHTS. & PCL. 55-T, 59-T, 63-T, ADDED PCL 60-T-1	8-20-71
ADDED BRGS. & DISTANCES for PCL 39-T 11-29-71	8-20-71
REVISED FUNDING	9-10-71
CORRECTED STATIONING TO 84+03.19 P/I 60BT	9-14-71 J.R.T.
REVISED NAME PCL 57WDT	9-16-71 G.A.S.
REVISED NAME PCL 53WD	9-29-71
Completion Date	

BRUNING 44-560 10943

RIGHT OF WAY SHEET STA. 916+00 TO STA. 928+00 & HEATON NORTH RO

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

TRU.-422-14.67

21
22

BEGIN SHEET STA. 285+00

HOWLAND HOMES PLAT No 3
Vol. 11, Pg. 38

KHEVA T. GHISEA aka. KHEVA TANASE GHISEA

CITY LOT 7404 — LOT 46 — LOT 45 — RONALD E. LEONARD & JANE E. LEONARD

CITY LOT 7403 — LOT 44

C.R. PROPERTIES, INC., AN OHIO CORPORATION

SCALE IN FEET
50 25 0 50 100

96 WD — T.B.A. 312 S.F.
96 WD — T.B.A. 162 S.F.
96 A/T — T.B.A. 7349 S.F. DRIVES & GRADING
98 T — T.B.A. 805 S.F. GRADING
98 A/T — T.B.A. 700 S.F. DRIVE & GRADING

NOTE: SIGN in PCL. 96A-T NOT TO BE DAMAGED.
NOTE: BRICK BLDG. NOT TO BE DAMAGED.

1-Sty. Fr. House — 1-Sty. Fr. House — Gar. — 1-Sty. Brick Bldg. — 1-Sty Brick (Shell)

EXISTING R/W 7 — EXISTING R/W 7 — EXISTING R/W 7

℄ S.R. 46 — N-39°-28'-E

℄ MORELAND AVE. — N 5°32' W EXIST. R/W 18.00

290+81.60 51' Lt. — N39°28'E 18.00 — 290+81.60 33' Lt. — EXIST. R/W 25.45' — 290+99.60 33' Lt. — ℄ S.R. 46

TBA 162 m²

DETAIL "A" No Scale

JOHN KOVACS & HELEN M. KOVACS
100 WD — T.B.A. 843 S.F. PRO. 691.9 S.F. TOTAL 7762 S.F.

S 80°02' W 0.E +25.70

HERSCHEL H. BUCHANAN

TRUMBULL COUNTY
HOWLAND TOWNSHIP
LOT 45
T-4N R-3W

CITY OF NILES, OHIO

102 WD — T.B.A. 1536 S.F. PRO. 9000 S.F. TOTAL 10,536 S.F.
102 T — T.B.A. 3,961 S.F. DRIVES & GRADING

RICHARD S. HAWKES

20' RESERVATION FOR INGRESS AND EGRESS

LOT 1 — LOT 2 — PART OF LOT 5

RICHARD S. HAWKES PLAT No 1 Vol. 14, Pg 100

THE STANDARD OIL COMPANY, AN OHIO CORPORATION

LOT 3 — Tele & Sons Garage

N 50°32' W — EXIST. R/W

S-37°-23'-E 896

S-37°-44'-E 894 — ℄ U.S. 422

Retain Wall 7

1-Sty Brick Shell

894+14.49 40' Rt.
894+23.26 40' Rt.
294+78 50' Lt.
294+78 40' Lt.
295+64.70 40' Lt.
Ch. Brg. N 0°52'E Ch. 62.59 Arc 61.37 Rad. 50°
℄ R/W
S 37°23'E 39.91'
EXISTING R/W 7 ℄ N-39°-28'-E 39.91'
295+54.70 33' Lt.
894+63.17 - 40' Rt. ℄ 422 = 295+94.61 - 33' Lt. - ℄ 46

295 ℄ S.R. 46 7 N-39°-28'-E 296

T.B.A. 947 S.F.
294+29.84 30' Rt.
(N39°28'E - 150.20' (150'D))
EXISTING R/W 7 — R/W — N39°28'E 117.32'
295+47.36 35' Rt.
+29.84 35' Rt.
℄ EXIST. R/W
T.B.A. 3508 S.F.
THE STANDARD OIL COMPANY AN OHIO CORPORATION
NOT TO BE DISTURBED
R=125.01' Arc=59.17' Ch=59.01' Ch Brg S 88°57'30"E
+28.07 - 40' Rt. ℄ 422 +80.04 - 30' Rt. ℄ 46
+29.65 - 65.69' Rt.
895+64.72 - 40' Rt. - ℄ 422
295+71.70 - 65.69' Rt. - ℄ 46

DETAIL "B" - No Scale ℄ S.R. 46
293+09.84 30' Rt.
293+29.84 30' Rt.
293+09.84 35' Rt.
293+29.84 35' Rt.
+29.84 40' Rt.
+29.84 45' Rt.
EXIST R/W
20' RESERVATION FOR INGRESS & EGRESS

DELETED PCL. 96 CWD, REV. LIMITS OF PCL. 96 BWD & BWA. REVISED LOCATION OF PCL. 102 WD: PER RELOCATION OF OVERHEAD SIGN FROM STA. 291+20 TO STA. 290+89.

DETAIL "C" No Scale ℄ S.R. 46
EXISTING R/W
290+86 35' Rt.
290+92 35' Rt.
R/W
290+86 41' Rt.
290+92 41' Rt.

"T" FUNDS
106 WD — T.B.A. 600 S.F.
106 T — T.B.A. 12.00 S.F. DRIVE & GRADING
104 WD — T.B.A. 225 S.F.
104 T — T.B.A. 225 S.F. GRADING

END SHEET STA. 308+00

SEE DETAIL "A"
SEE DETAIL "B"
SEE DETAIL "C"

OVERHEAD SIGN

Willow — Maple — Pine — Oak — Cherry — Elm — Evgrs — Shrubs — Apple — Crab Apple — Gas Meters — High Voltage Box — Gas Vault — Curb Inlet — Catch Basin — Manhole — Guard Rail

Retain Wall 7 — Retain Wall 6 — Sign Mh. — Sign Not To Be Disturbed

+3.00 Dr. 6" Bit. Conc. — +4.00 Dr. 10" Slag — +4.00 Dr. 12" Bit. Conc. — +5.00 Dr. 15" Bit. Conc. — +6.00 Dr. 18" Bit. Conc. — +7.00 Dr. 24" Bit. Conc. — +10.00 Dr. 36" Bit. Conc. — +4.00 Dr. 31" Brick — +4.00 Dr. 31" Brick Conc. — +4.00 Dr. 10" Conc. — +4.00 Dr. 12" Conc. — +5.00 Dr. 15" Conc. — +6.00 Dr. 18" Conc. — +7.00 Dr. 24" Conc. — +10.00 Dr. 36" Conc.

Tele Pole — Tele Pole & Guy — Tele Pole & Anchor — Light Pole — Power Pole — Power Pole & Guy — Power Pole & Anchor — Power Pole & Transformer

1-Sty Conc. Block Service Sta. & Barber Shop

C.R. PROPERTIES, INC., AN OHIO CORPORATION

96 — 1-Sty Brick (Shell) — 1-Sty Conc Blk Bldg — 1-Sty Brick Red Barn — 1-Sty Brick House — 1-Sty. Fr. Bldg. Firestone

THE COMPARATO REALTY COMPANY

SEE R/W SHEET No 19 FOR DETAILS OF THESE PARCELS.

CITY OF NILES CORPORATION LINE

CHARLES H. BENDIG & MARJORIE A. BENDIG
105 T — T.B.A. 1457 S.F. DRIVE & GRADING

FRED H. LAW
107 — No Take

LULA GENTITHES
103 WA — DRIVES & GRADING
105 WA — DRIVE
EXIST. CLASS I EASE. V591, P401

LAWRENCE W. JOLLEY
115 T — T.B.A. 975 S.F. DRIVE & GRADING
115 WD — T.B.A. 1365 S.F.
115 S — T.B.A. 250 S.F.

ROSARIO BASILE
113 WA — WORK SPACE
113 WA — DRIVE

SALLY J. TENNEY
111 T — T.B.A. 1488 S.F. DRIVE & GRADING
109 — No Take
SALLY E. SUDA

TRUMBULL COUNTY
HOWLAND TOWNSHIP
LOT 45
T-4N, R-3W

NOTE: 2 SPRUCE TREES NOT TO BE DISTURBED
NOTE: 2 CRAB APPLE TREES NOT TO BE DISTURBED

SEE R/W SHEET 22 FOR BEARINGS & DISTANCES

SCALE IN FEET
50 25 0 50 100

ADDED PCL 115-S, REVISED LOCATION OF	8-23-71
PCLS 96 CWD & 102 WD	
REVISED NAME PARCEL 98-T	8-24-71
REVISED FUNDING	9-10-71
CONVERTED "T's to "WA's PCL 96 per Cusiak	9-29-71
ADDED 2 SIGNS & LIGHT POLE PCL 96 AWD	10-19-71
REVISED R/W & AREA OF TAKE PCL 115	3-1-73
REV. 96 AWA TO 96 AT & REV. T.B.A.	11-27-73
Completion Date	

RIGHT OF WAY SHEET STA. 286+00 TO STA. 308+00 S.R. 46

LINE SHEET

BY	DATE	CHECKED BY	DATE
		M.K.M.	
R.S.	3-21-70		

SURVEYED
PLOTTED
INKED
DESIGNED
QUANTITIES

BRUNING 44-560 10943

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

TRU. 422-14.67

22/22

10
1. S46°29'30"E ~ 5.00'
2. S43°30'30"W ~ 5.00'
3. N46°29'30"W ~ 5.00'
4. N43°30'30"E ~ 5.00'

115 S
1. S9°45'30"W ~ 25.03'
2. N80°24'30"E ~ 10.00'
3. N9°45'30"E ~ 24.97'
4. S79°59'30"W ~ 10.00'

13 WD
1. N46°29'30"W ~ 70.66'
2. N43°57'30"E ~ 5.00'
3. S46°29'30"E ~ 70.64'
4. S43°44'30"W ~ 5.00'

13 S
1. S46°29'30"E ~ 34.73'
2. N44°00'30"E ~ 5.00'
3. N46°29'30"W ~ 34.77'
4. S43°30'30"W ~ 5.00'

26 WD
1. S46°29'30"E ~ 10.00'
2. S42°05'00"W ~ 10.00'
3. N02°11'56"W ~ 14.32'

28 WD
1. N42°05'00"E ~ 10.00'
2. S46°29'30"E ~ 10.00'
3. S87°47'06"W ~ 13.97'

39 WD
1. N10°07'30"E ~ 254.09'(C)
2. N79°19'30"W ~ 35.00'
3. S10°07'30"W ~ 195.79'
4. S38°07'03"W ~ 24.42'
5. S16°10'16"W ~ 30.02'
6. S71°35'30"E ~ 50.15'

37 WD
1. N10°07'30"E ~ 284.09'
2. N80°31'30"W ~ 45.00'
3. S10°07'30"W ~ 141.69'
4. N79°52'30"W ~ 10.00'
5. S10°07'30"W ~ 39.00'
6. S79°52'30"E ~ 2.00'
7. S10°07'30"W ~ 6.00'
8. N79°52'30"W ~ 2.00'
9. S10°07'30"E ~ **96.55'**
10. S79°**19**'30"E ~ **35.00'**

REVISE PCL. 99 WD TO 99 WD, S & T 3-19-73

79 T
1. N25°10'16"E ~ 10.00'
2. R=11,519.16' Arc=50.26'
   CH=50.26' CH. BRG=S64°42'14"E
3. S25°25'16"W ~ 10.00'
4. R=11,509.16' Arc=50.22'
   CH=50.22' CH. BRG.=N64°42'14"W

43 WD
1. N10°07'30"E ~ 175.00'(D)
2. N80°31'30"W ~ 25.00'
3. S14°27'36"W ~ 132.30'
4. S10°07'30"W ~ 43.20'
5. S80°31'30"E ~ 35.00'

63 WD
1. N10°07'30"E ~ 137.81'(D)
2. S80°31'30"E ~ 35.00'
3. S10°07'30"W ~ 81.33'
4. S31°35'09"E ~ 37.26'
5. R=11,514.16', Arc L.=116.02',
   CHD L.=116.02', CHD BRG.=S73°00'36"E
6. S10°07'30"W ~ 40.67'
7. N71°35'30"W ~ 176.85'(D)

53 WD
1. N10°07'30"E ~ 105.00'(D)
2. S80°31'30"E ~ 25.00'
3. S10°07'30"W ~ 35.00'
4. S 6°02'09"W ~ 70.12'
5. N80°31'30"W ~ 30.00'

55 WD
1. N10°07'30"E ~ 125.14'(Meas.& Used) 125.00'(D)
2. S80°31'30"E ~ 30.00'
3. S 7° 41' 26"W ~ 117.65'
4. S79°52'30"E ~ 5.00'
5. S10°07'30"W ~ 7.49'
6. N80°31'30"W ~ 40.00'

57 WD
1. N10°07'30"E ~ 100.23'(Meas.& Used) 100.00'(D)
2. S80°31'30"E ~ 40.00'
3. S10°07'30"W ~ 7.51'
4. N79°52'30"W ~ 5.00'
5. S10°07'30"W ~ 49.00'
6. S79°52'30"E ~ 3.00'
7. S10°07'30"W ~ 6.00'
8. N79°52'30"W ~ 3.00'
9. S10°07'30"W ~ 37.77'
10. N80°31'30"W ~ 35.00'

59 WD
1. N10°07'30"E ~ 105.00'(D)
2. S80°31'30"E ~ 35.00'
3. S10°07'30"W ~ 105.00'
4. N80°31'30"W ~ 35.00'

65 WD
1. N10°07'30"E ~ 48.70'
2. S72°38'42"E ~ 32.73'
3. S17°26'10"W ~ 8.00'
4. S72°13'42"E ~ 144.84'
5. S10°07'30"W ~ 42.83'
6. N71°35'30"W ~ 176.83'(D)

65 A WD
1. N10°07'30"E ~ 70.00'(D)
2. S80°31'30"E ~ 35.00'
3. S10°07'30"W ~ 70.00'
4. N80°31'30"W ~ 35.00'

60 WD
1. S74°06'30"E ~ 85.75'
2. S22°23'30"W ~ 5.03'
3. N74°06'30"W ~ 76.66'
4. S15°53'30"W ~ 10.00'
5. N74°06'30"W ~ 6.96'
6. N9°57'30"E ~ 15.08'

60 A WD
1. S74°06'30"E ~ 150.16'(Calc.& Used) 150.00'(D)
2. S22°23'30"W ~ 5.03'
3. N74°06'30"W ~ 150.16'
4. N22°23'30"E ~ 5.03'

62 WD
1. S74°06'30"E ~ 49.30'
2. R=11,419.16' Arc L.=100.86'
   Chd L.=100.86' Chd Brg=S73°51'19"E
3. S22°24'30"W ~ 149.16'(Calc & Used) 150'(D)
4. N74°05'30"W ~ 20.13'
5. N17°40'48"E ~ 60.66'
6. N20°17'31"E ~ 17.01'
7. N67°35'30"W ~ 9.37'
8. N20°17'31"E ~ 6.00'
9. S67°35'30"E ~ 9.15'
10. N20°17'31"E ~ 28.21'
11. R=30' Arc L.=49.32'
    Chd L.=43.95' Chd. Brg=N26°48'30"W
12. R=11,414.16' Arc L.=39.77'
    Chd L.=39.77' Chd Brg.=N74°00'31"W
13. N74°06'30"W ~ 49.87'
14. N22°23'30"E ~ 5.03'

60-B WD
1. S22°24'30"W ~ 80.51'(D) 80.54'(M&U)
2. N74°05'30"W ~ 38.25'
3. N17°23'30"E ~ 80.05'
4. S74°05'30"E ~ 45.29'

60-B WD-1
1. S22°24'30"W ~ 51.20'(D)
2. N80°01'30"W ~ 30.72'
3. N16°42'29"E ~ 50.34'
4. S80°01'30"E ~ 35.84'

60 WD-1
1. N80°01'30"W ~ 10.24'
2. N22°24'30"E ~ 111.38'
3. N16°58'05"E ~ 31.64'
4. S74°05'30"E ~ 13.08'
5. S22°24'30"W ~ 142.15'(D&M)

68 WD
1. R=11,459.16' Arc L=638.88'
   Chd Brg=S68°01'26"E Chd L.=638.80'
2. S28°47'00"W ~ 75.31'
3. R=11,384.16' Arc L=630.52'
   Chd. Brg=N68°02'52"E Chd L=630.44'
4. N22°24'30"E ~ 75.05'

70 S
1. R=11,419.16' Arc L=150.00'
   Chd.Brg=S72°58'26"E Chd.L=150.00'
2. S17°01'30"W ~ 5.00'
3. R=11,414.16' Arc L=150.47'
   Chd.Brg=N72°58'30"W Chd.L=150.47'
4. N22°24'30"E ~ 5.00'

72 WD
1. R=11,459.16' Arc L=595.56'(596.56 D)
   Chd.Brg.=S71°06'36"E Chd.L=595.49'
2. S22°24'30"W ~ 50.03'
3. R=11,409.16' Arc L=363.19'
   Chd Brg=N70°32'31"W Chd L=363.17'
4. N71°24'23"W ~ 18.89'
5. N65°58'15"W ~ 100.11'
6. R=11,419.16' Arc L=128.28'
   Chd. Brg=N72°16'32"W Chd L=128.28'
7. N17°01'30"E ~ 40.00'

72 S
1. R=11,419.16' Arc L=128.28'
   Chd.Brg=S72°16'32"E Chd.L=128.28'
2. S65°58'15"E ~ 48.96'
3. R=11,414.16' Arc L=176.89'
   Chd.Brg=N72°09'12"W Chd L=176.89'
4. N17°01'30"E ~ 5.00'

77
1. R=11,499.16', Arc L=51.16'
   Chd. Brg=N64°58'50"W Arc L=51.16
2. N 24°53'31"E ~ 10.00'
3. R=11,509.16' Arc L=49.66'
   Chd. Brg.=S64°59'04"E, Chd 49.66'
4. S16°21'06"W ~ 10.12'

79
1. R=11,499.16', Arc L=145.02'
   Chd Brg. N64°29'32"W, Chd. L=145.02'
2. N16°21'06"E ~ 10.12'
3. R=11,509.16', Arc L=143.80'
   Chd. Brg. S64°30'10"E, Chd L=143.80'
4. S 9°45'16"W ~ 10.41'

81
1. N09°45'16"E ~ 3.12'
2. RAD=11,502.16' Arc=73.50'
   CH=73.50' CH. BRG=S63°57'06"E
3. N26°13'53"E ~ 3.00'
4. RAD=11,505.16' Arc=6.02'
   CH=6.02' CH. BRG=S63°45'13"E
5. S26°15'41"W ~ 3.00'
6. RAD=11,502.16' Arc=87.33'
   CH=87.33' CH. BRG=S63°31'16"E
7. N76°47'06"E ~ 10.91'
8. S09°45'16"W ~ 1.53'
9. RAD=17.90' Arc=8.63'
   CH=8.55' CH. BRG=S23°33'49"W
10. RAD=11,499.16' Arc=175.22'
    CH=175.22' CH. BRG.=N63°41'39"W

85 S
1. R=11,509.16', AL=10.11', CHL=10.11',
   CHB N54°16'46"W
2. N27°20'59"E ~ 216.68'
3. S 79° 30' 30"E ~ 10.44'
4. S 27° 20'59"W ~ 221.18'

125
1. S34°57'52"E ~ 142.16'
4. N37°23'00"W ~ 142.03'
5. N52°37'00"E ~ 6.00'

99 T
1. S37°44'00"E ~ 60.00'
2. S11° 10' 06"E ~ 33.54'
3. N37°44'00"W ~ 90.00'
4. S52°16'00"W ~ 15.00'

85 WD
1. N 54°04'00"W ~ 1208.12'(C&U) 1209.65'(D)
2. N 35°44' 30"E ~ 79.66'
3. S 5°23'51"E ~ 39.72'
4. R=11,509.16' AL=62.70', CHL = 62.70'
   CHD B = S 54°13'22"E
5. S 54°04'00"E ~ 192.57'
6. N 25°56'00"E ~ 3.00'
7. S 54°04'00"E ~ 10.00'
8. S 25°56'00"W ~ 3.00'
9. S 54°04'00"E ~ 240.00'
10. N 25°56'00"E ~ 3.00'
11. S 54°04'00"E ~ 10.00'
12. S 25°56'00"W ~ 3.00'
13. S 54°04'00"E ~ 641.48'
14. S 9°00'30"W ~ 56.08'

91 WD
1. R=2,331.83', Arc L=105.38', Chd. L=105.37',
   Chd. Brg N 49°38'04" W
2. N 39°04'15"E ~ 3.00'
3. R=2,334.83', Arc L=105.21', Chd. L=105.20'
   Chd. Brg. S49°38'18"E
4. S 35°56'00"W ~ 3.02'

93 WD
1. R=2,331.83', Arc L=21.81', Chd. L=21.81',
   Chd Brg. N 48°04'20"W
2. N 35°56'00"E ~ 3.02'
3. R=2,334.83', Arc L=13.44', Chd. L=13.44'
   Chd. Brg. S 48°10'57"E
4. S 54°04'00"E ~ 8.75'
5. S 42°11'45"W ~ 3.94'

94 WD
1. S 52°16'00"W ~ 10.00'
2. N 7°16'00"E ~ 14.14'
3. S 37°44'00"E ~ 10.00'

96 WD
1. S 37°44'00"E ~ 769.83'
2. S 52°16'00"W ~ 3.00'
3. N 37°44'00"W ~ 4 37.00'
4. S 52°16'00"W ~ 2.00'
5. N 37°44'00"W ~ 3 13.00'
6. N 85°42'11"W ~ 29.62'
7. N 52°16'00"E ~ 27.00'

97 WD
1. N 37°44'00"W ~ 37.52'(C) ~ 37.02'(D)
2. R=2,331.83', Arc L=163.21(D) 162.92(C)&(M),
   Chd L=162.88', Chd. Brg. N39°44'05"W
3. S46°10'31"E ~ 101.14'
4. S41°04'02"E ~ 100.43'
5. S52°16'00"W ~ 15.00'

99 WD
1. S 37°44'00"E ~ 30.00'
2. N 52° 16' 00"E ~ 15.00'
3. N 11° 10' 06"W ~ 33.54'

99 S
1. S37°44'00"E ~ 10.00'
2. N52°16'00"E ~ 15.00'
3. N37°44'00"W ~ 10.00'
4. S 52°16'00"W ~ 15.00'

100 WD
1. N 80°02'40"W ~ 34.47'
2. N 39°28'00"E ~ 240.18(D) 239.14(C&U)
3. S 50°32'00"E ~ 35.00'
4. S 39°28'00"W ~ 114.84
5. S 42°08'03"~107.44'

101 WD
1. N 52°16'00"E ~ 10'
2. S 7°16'00"W ~ 14.14'
3. N 37°44'00"W ~ 10.00'

65 A-T
1. N10°07'30"E ~ 70.00'
2. S80°31'30"E ~ 10.00'
3. S10°07'30"W ~ 42.34'
4. S79°52'30"E ~ 15.00'
5. S10°07'30"W ~ 27.49'
6. N80°31'30"W ~ 25.00'

67 WD
1. N10°07'30"E ~ 42.83'
2. S71°20'50"E ~ 199.28'
3. S10°07'30"W ~ 41.97'
4. N71°35'30"W ~ 200(D) 199.14' M&U

69 WD
1. N10°07'30"E ~ 41.97'
2. S60°00'55"E ~ 57.45'
3. S10°07'30"W ~ 30.32'
4. N71°35'30"W ~ 53.66(D) 54.60 M&U

75 S
1. N49°21'38"E ~ 50.00'
2. S40°38'22"E ~ 20.00'
3. S49°21'38"W ~ 41.29'
4. N62°57'29"W ~ 21.62'

102 WD
1. N39°28'00"E ~ 300'(D)
2. S 50°32'00"E ~ 35.00'
3. S 39°28'W ~ 172.84'
4. N 50°32'W ~ 6.00'
5. S 39°28'W ~ 6.00'
6. N 50°32'W ~ 6.00'
7. S 39°28'W ~ 121.16'
8. N 50°32'W ~ 35.00'

104 WD
1. N39°28'E ~ 45'(D)
2. S 50°32'E ~ 5.00'
3. S 39°28'W ~ 45.00'
4. N 50°32'W ~ 5.00'

106 WD
1. N 39°28'E ~ 120'(D)
2. S 50°32'E ~ 5.00'
3. S 39°28'W ~ 120.00'
4. N 50°32'W ~ 5.00'

115 WD
1. N 09°45'30"E ~ 195.00'
2. S 80°14'30"E ~ 7.00'
3. S 09°45'30"W ~ 195.00'
4. N 80°14'30"W ~ 7.00

117 WD
1. S79°59'30"E ~ 33.00'
2. S09°45'30"W ~ 101.19'
3. S14°21'27"E ~ 61.69'
4. S36°49'49"E ~ 267.95'
5. S52°37'00"W ~ 48.41'
6. N37°23'00"W ~ 300'(D) 300.02' C&U
7. N09°45'30"E ~ 173.2'(D)

82
1. RAD=11,419.16' Arc=5.00'
   Chd=5.00' Chd Brg=S56°06'14"E
2. S35°54'31"W ~ 3.00'
3. RAD=11,416.16' Arc=5.00'
   Chd=5.00' Chd Brg=N54°06'14"W
4. N35°53'01"E ~ 3.00'

77 T
1. N62°38'01"E ~ 32.06'
2. R=11,534.16' Arc=54.35'
   CH=54.35' CH. BRG=S66°05'20"E
3. S57°41'51"E ~ 71.13'
4. R=11,524.16' Arc=65.37'
   CH=65.37' CH. BRG=S65°26'29"E
5. S24°43'16"W ~ 5.00'
6. R=11,519.16' Arc=82.48'
   CH=82.48' CH. BRG=S65°04'25"E
7. S16°21'06"W ~ 10.11'
8. R=11,509.16' Arc=293.89'
   CH=293.88' CH. BRG=N65°35'05"W

69 T
5. N10°07'30"E ~ 5.06'
6. S70°43'09"E ~ 54.73'
7. S10°07'30"W ~ 15.87'
8. N60°00'55"W ~ 57.45'

65 T
1. N17°26'10"E ~ 8.00'
2. N77°21'14"E ~ 13.95'
3. S72°23'29"E ~ 45.27'
4. S17°43'16"W ~ 5.00'
5. S72°03'52"E ~ 86.26'
6. S10°07'30"W ~ 10.04'
7. N72°13'42"W ~ 144.84'

114 S
1. S37°23'00"E ~ 11.07'
2. N80°02'00"W ~ 15.52'
3. N09°58'00"E ~ 7.50'
4. S80°02'00"E ~ 7.38'

116 S
1. N80°02'00"W ~ 23.66'
2. N09°58'00"E ~ 7.50'
3. S80°02'00"E ~ 15.52'
4. S37°23'00"E ~ 11.07'

119 WD
1. S36°49'49"E ~ 150.03'
2. S52°37'00"W ~ 46.97'
3. N37°23'00"W ~ 150'(D) 150.02' C&U
4. N52°37'00"E ~ 48.41'

123 WD
1. S36°49'49"E ~ 100.01'
2. S52°37'00"W ~ 46.00'
3. N37°23'00"W ~ 100'(D) 100.01' C&U
4. N52°37'00"E ~ 46.97'

Revised Brg. & Distances Pcl. 115 3-1-73
Revised 94 WD to 94 BWD per outsale 1-23-72
Rev. Distances Pcl 102 WD- 3-3-72

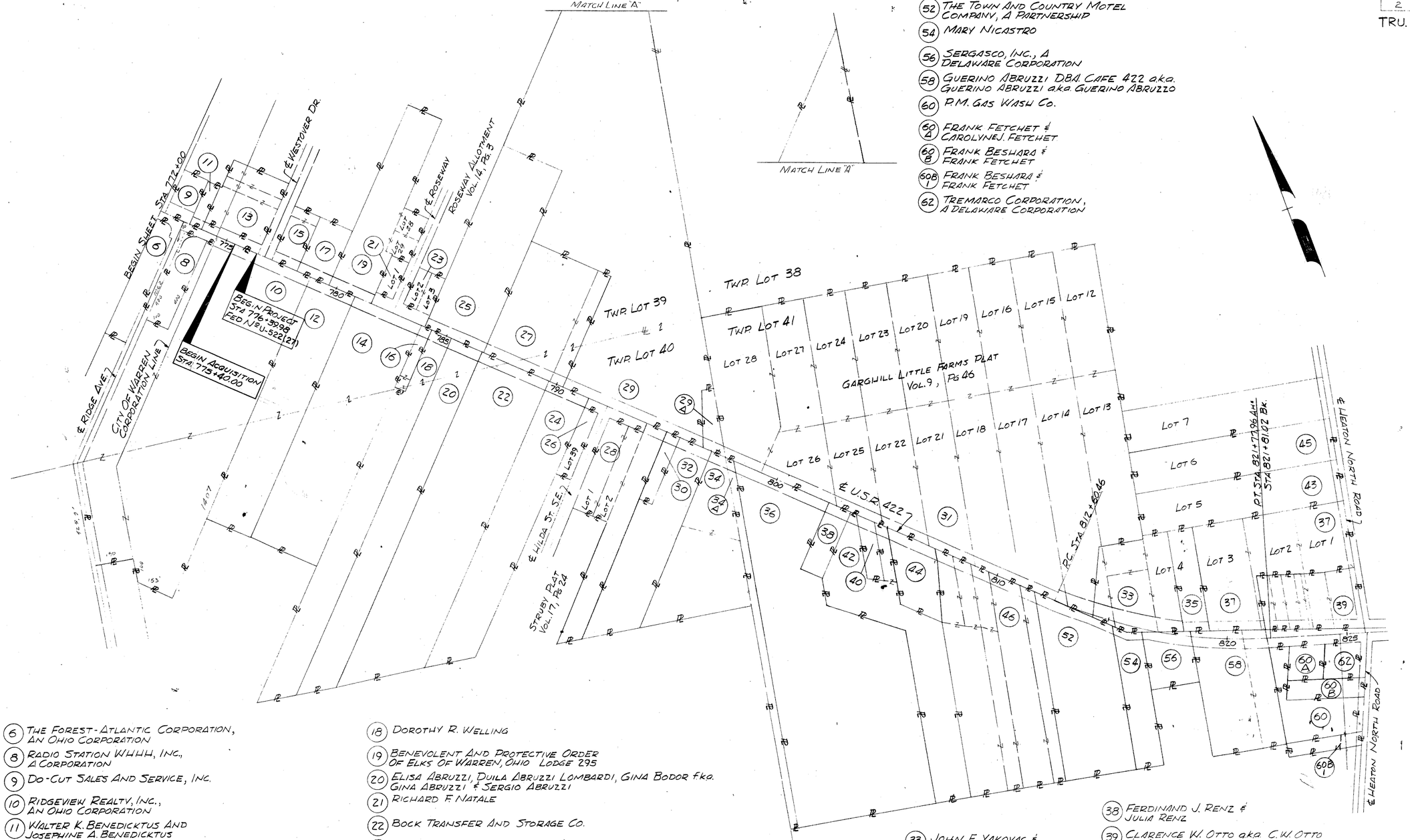
Revised Brg & Dist. Parcel 37 WD	8-20-71
Added Pcl. 115-S	8-23-71
Added Parcel 82	10-18-71
Revised Distances Pcl's 57 WD & 37 WD	11-1-71
Added Parcel 77-T	11-1-71
Revised Pcl 125 WD to 125 Easement	11-12-71
Revised Brgs. & Dist. Pcl. 81	11-16-71
Added Brg & Dist. Pcls. 79-T, 65-T, A-T & 69-T	11-19-71
Completion Date	

BRUNING 44-560 10943

FED. RD DIVISION	STATE	PROJECT	
2	OHIO		

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(6) THE FOREST-ATLANTIC CORPORATION, AN OHIO CORPORATION

(8) RADIO STATION WHHH, INC., A CORPORATION

(9) DO-CUT SALES AND SERVICE, INC.

(10) RIDGEVIEW REALTY, INC., AN OHIO CORPORATION

(11) WALTER K. BENEDICKTUS AND JOSEPHINE A. BENEDICKTUS

(12) A & M DEVELOPMENT, INC.

(13) ROBERT C. LEWIS AND CAROLYN A. SIDDALL

(14) G. BRIAN SHEEHE AND ESTHER L. SHEEHE

(15) PAT FINELLI & MARY FINELLI, OWNERS MACK L. ROZZANO & FRANCES C. ROZZANO, HOLDERS OF LAND CONTRACT

(16) DANIEL MC GRAVEY & BERNICE MC GRAVEY

(17) JOHN A. GRIMA & JOSEPH N. GRIMA

(18) DOROTHY R. WELLING

(19) BENEVOLENT AND PROTECTIVE ORDER OF ELKS OF WARREN, OHIO LODGE 295

(20) ELISA ABRUZZI, DUILA ABRUZZI LOMBARDI, GINA BODOR f.k.a. GINA ABRUZZI & SERGIO ABRUZZI

(21) RICHARD F. NATALE

(22) BOCK TRANSFER AND STORAGE CO.

(23) DONALD J. FITCH

(24) AMERICO PESIGNE & ESTHER PESIGNE

(25) MOTOR EXPRESS, INC., AN OHIO CORPORATION

(26) WILLIAM HANLEY & JULES C. PASSELL A GENERAL PARTNERSHIP

(27) WAYNE C. GREENWOOD, JR.

(28) HILDA DEVELOPMENT AND REALTY CORPORATION, AN OHIO CORPORATION

(29) THE HARRY WINTER CONSTRUCTION CO., AN OHIO CORPORATION & ALBERT TUBER

(29A) MAX E. PEARLSTEIN, JANYCE B. PEARLSTEIN, AARON HANK & EMIL HANK

(30) RAYMOND GERALD HARDMAN & MARY T. HARDMAN

(31) THE PINEVIEW MEMORIAL PARK ASSOCIATION, A CORPORATION

(32) JOSEPH SARKIES

(33) JOHN E. YAKOVAC & JAMES R. SODA

(34) JOHN IACOZILI & MARY IACOZILI

(34A) ANTHONY PARISI, SARAH PARISI & F.J. STRUB

(35) CHARLES SFERRA, SAMUEL PETKOVICH & SAMUEL D'AGATI

(36) JOSEPH J. COMPARATO

(37) J.J.D. INC., AN OHIO CORPORATION

(38) FERDINAND J. RENZ & JULIA RENZ

(39) CLARENCE W. OTTO a.k.a. C.W. OTTO & MARY C. OTTO

(40) ANGELO HAIDARIS, JOHN BELLAS & GUS KOUPAS

(42) SARKIES ENTERPRISES, INC., AN OHIO CORPORATION

(43) ANTHONY CIMINERO & NELLIE CIMINERO

(44) MARK FIGETAKIS

(45) MYRON E. DAUM & FERN DAUM

(46) CESIDIA FIORE ET. AL.

(52) THE TOWN AND COUNTRY MOTEL COMPANY, A PARTNERSHIP

(54) MARY NICASTRO

(56) SERGASCO, INC., A DELAWARE CORPORATION

(58) GUERINO ABRUZZI DBA CAFE 422 a.k.a. GUERINO ABRUZZI a.k.a. GUERINO ABRUZZO

(60) P.M. GAS WASH CO.

(60A) FRANK FETCHET & CAROLYNE J. FETCHET

(60B) FRANK BESHARA & FRANK FETCHET

(60B1) FRANK BESHARA & FRANK FETCHET

(62) TREMARCO CORPORATION, A DELAWARE CORPORATION

REVISED NAME PARCEL 42 & 60A AND REVISED BEGIN PROJECT & ACQUISITION FLAGS 7-28-71

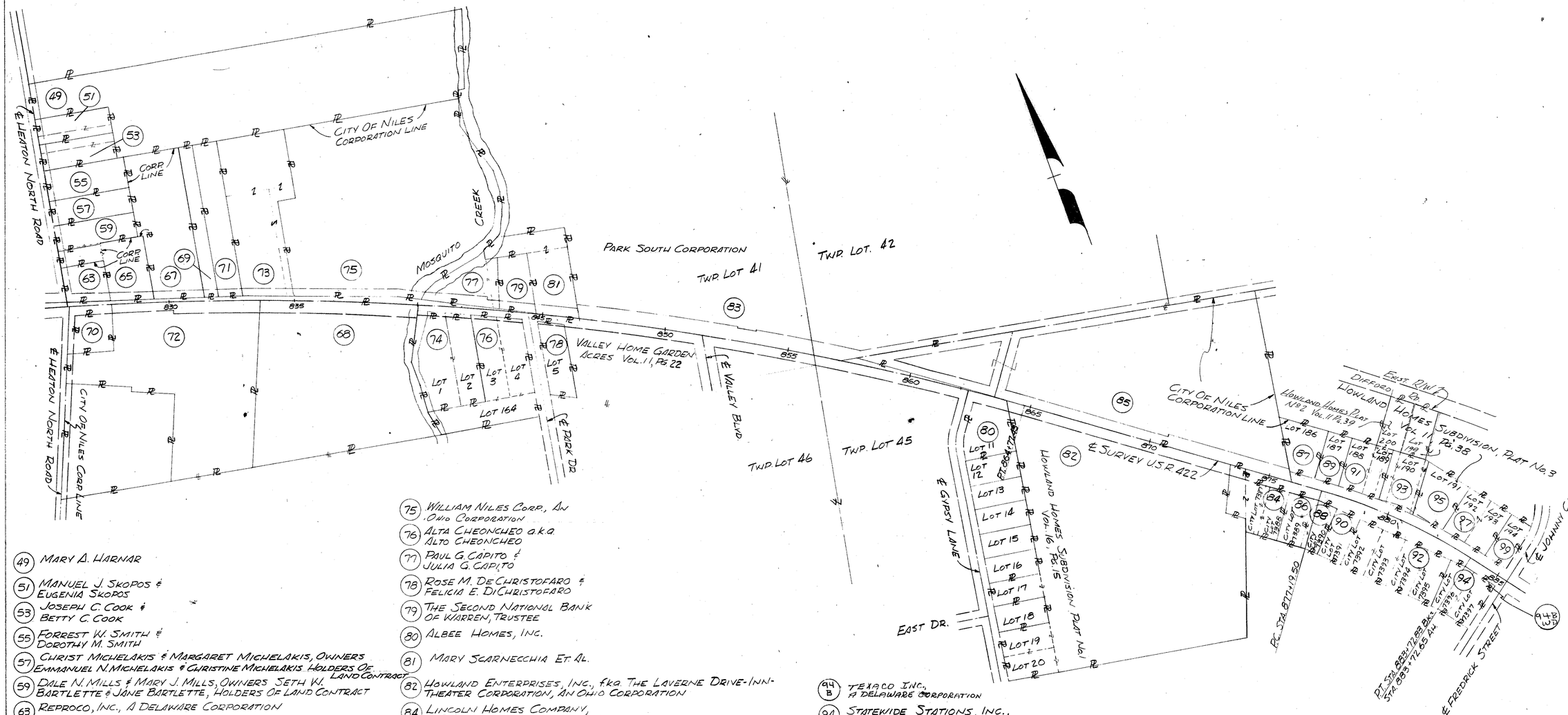
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PROPERTY MAP
SHEET 1 OF 3

	FED. RD. DIVISION	STATE	PROJECT	
	2	OHIO		

TRU-422-14.67

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(49) MARY A. HARNAR

(51) MANUEL J. SKOPOS & EUGENIA SKOPOS

(53) JOSEPH C. COOK & BETTY C. COOK

(55) FORREST W. SMITH & DOROTHY M. SMITH

(57) CHRIST MICHELAKIS & MARGARET MICHELAKIS, OWNERS EMMANUEL N. MICHELAKIS & CHRISTINE MICHELAKIS, HOLDERS OF LAND CONTRACT

(59) DALE N. MILLS & MARY J. MILLS, OWNERS SETH W. BARTLETTE & JANE BARTLETTE, HOLDERS OF LAND CONTRACT

(63) REPROCO, INC., A DELAWARE CORPORATION

(65) HARRY S. KEFFALOS & MARRY KEFFALOS

(67) CERNI MOTOR SALES, INC.

(68) THIRD WARREN CORP, AN OHIO CORPORATION

(69) JOHN CERNI & CHARLES CERNI

(70) THE SUN OIL COMPANY OF PENNSYLVANIA, A PENNSYLVANIA CORPORATION

(71) THOMAS G. HAIDARIS, GEORGE G. HAIDARIS & ANGELO HAIDARIS

(72) NILES ASSOCIATES, AN OHIO LIMITED PARTNERSHIP

(73) RAYMOND E. LONSWAY

(74) HAROLD E. HAUGHTON & LILLIAN R. HAUGHTON

(75) WILLIAM NILES CORP., AN OHIO CORPORATION

(76) ALTA CHEONCHEO a.k.a. ALTO CHEONCHEO

(77) PAUL G. CAPITO & JULIA G. CAPITO

(78) ROSE M. DE CHRISTOFARO & FELICIA E. DICHRISTOFARO

(79) THE SECOND NATIONAL BANK OF WARREN, TRUSTEE

(80) ALBEE HOMES, INC.

(81) MARY SCARNECCHIA ET. AL.

(82) HOWLAND ENTERPRISES, INC., fka. THE LAVERNE DRIVE-INN-THEATER CORPORATION, AN OHIO CORPORATION

(84) LINCOLN HOMES COMPANY, A PENNSYLVANIA CORPORATION

(85) ROMAR, INC.

(86) CHARLES P. LAMONGE & THOMAS J. MATASH

(87) CARMEN DELLATRECCHIA

(88) TRUMBULL INVESTMENT CO., INC., AN OHIO CORPORATION

(89) JAMES BERNARD, JR.

(90) RICHARD J. SKIFFEY & ROSE RAE SKIFFEY

(91) TRUMBULL NEW THEATRE, INC.

(92) FRED C. MORRIS & CLYDE H. FISHER

(93) JOSEPH A. GILMOUR

(94B) TEXACO INC., A DELAWARE CORPORATION

(94) STATEWIDE STATIONS, INC., A DELAWARE CORPORATION

(95) THEODORE L. SWARTZ & MARGARET L. SWARTZ

(97) ESTHER D. LEVY

(99) ELIZABETH JONES

REV. NAME PCL 75 5-8-73
ADDED 94WD 5-28-72
REVISED NAME PCL 70 3-30-72
REVISED NAME PCL. 57 11-22-71
REVISED NAME PARCEL 53 - 9-29-71
REVISED NAME PARCEL 55 7-28-71
REVISED RS PCL 91-WD 4-23-73

SCALE IN FEET

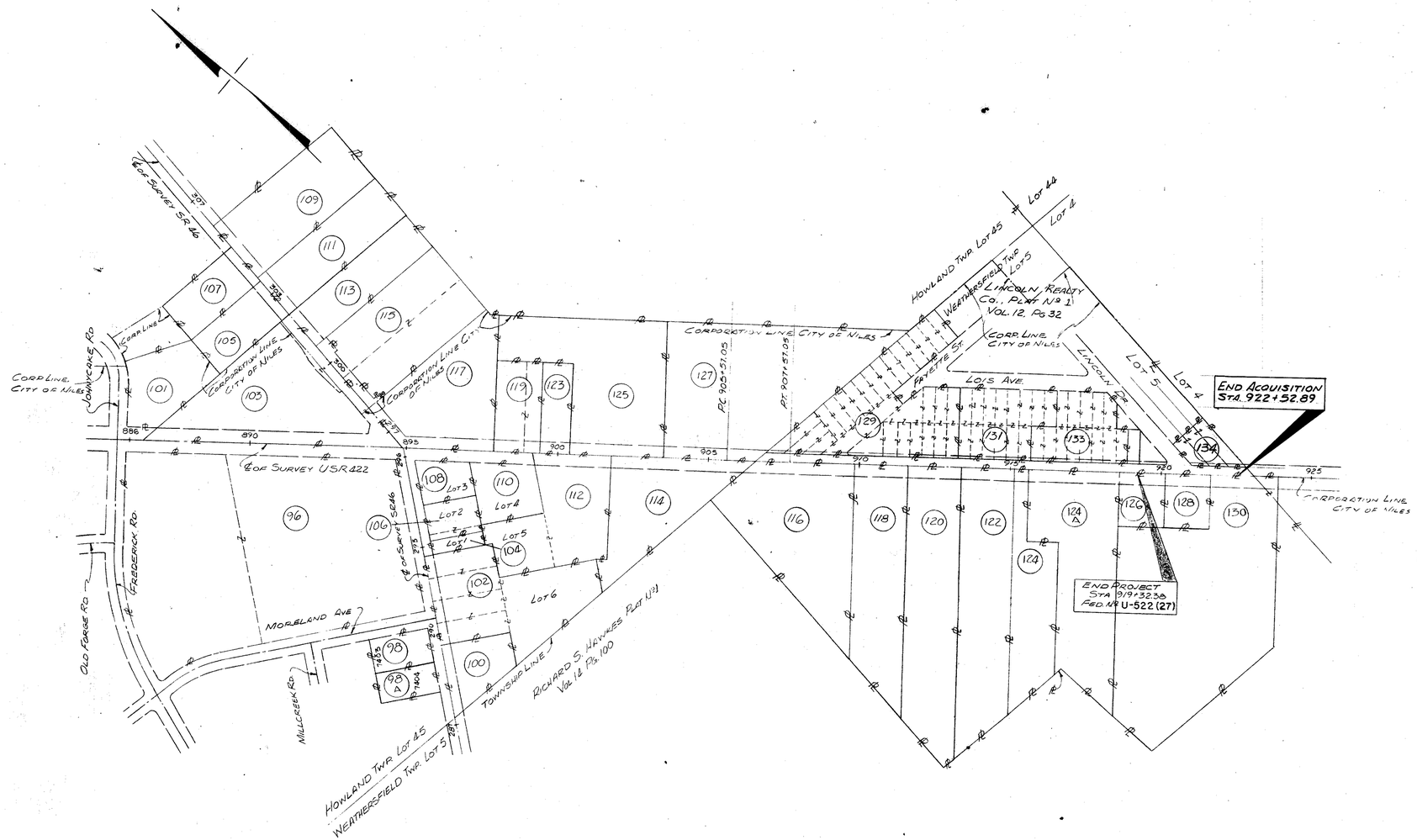
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PROPERTY MAP
SHEET 2 OF 3

	FED. RD. DIVISION	STATE	PROJECT	
	2	OHIO		

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(96) C.R. PROPERTIES, INC., AN OHIO CORPORATION

(98) KHEVA T. GHISEA aka. KHEVA TANASE GHISEA

(98A) RONALD E. LEONARD & JANE E. LEONARD

(100) JOHN KOVACS & HELEN M. KOVACS

(101) SHANNON GROUP, AN OHIO PARTNERSHIP

(102) HERSCHEL H. BUCHANAN

(103) LULA GENTITHES

(104) CITY OF NILES, OHIO

(105) CHARLE H. BENDIG & MARJORIE A. BENDIG

(106) RICHARD S. HAWKES

(107) FRED H. LAW

(108) THE STANDARD OIL COMPANY AN OHIO CORPORATION

(109) SALLY E. SUDA

(110) THE I.E.R. COMPANY, AN OHIO CORPORATION

(111) SALLY J. TENNEY

(112) THE NILES-WARREN MOTOR LODGE, INC. AN OHIO CORPORATION

(113) ROSARIO BASILE

(114) PAYLESS STATIONS, INC., A KENTUCKY CORPORATION

(115) LAWRENCE W. JOLLEY

(116) M. & M. MOTELS, INCORPORATED, AN OHIO CORPORATION

(117) THE COMPARATO REALTY COMPANY

(118) GEORGE W. GALES & EDITH M. GALES

(119) FRANKLYN REALTY COMPANY, AN OHIO CORPORATION

(120) JULIA A. HOWE

(122) EUGENE B. KEHN

(123) Z.R. WEST, INC., A DELAWARE CORPORATION

(124) TONY A. MARR & FANNIE M. MARR

(124A) TONY MARR, PAUL MARR & ROCCO CONSTANTION

(125) PAUL A. GUARNIERI & BERNARD W. ROSENBERG

(126) LOIS DELUCIA

(127) HOLLIDAY INN WARREN-NILES, OHIO, INC. AN OHIO CORPORATION

(128) FULLY R. SPAIN

(129) RICHARD F. ALBERINI aka RICHARD ALBERINI & GILDA R. ALBERINI aka GILDA ROSE ALBERINI

(130) GREEN ACRES, INC.

(131) ANDREW P. MALLIN & MARGARET W. MALLIN

(133) MICHAEL LESTER aka MICHAEL E. LESTER & CONNA A. LESTER FKA CONNA NAN SCHULTZ

(134) JOHN SLIWINSKI ET. AL.

SCALE IN FEET
200 100 0 200 400

PROPERTY MAP
SHEET 3 OF 3

SUMMARY OF ADDITIONAL RIGHT OF WAY REQUIRED

FEDERAL PROJECT NUMBERS:
"F" (PRIMARY) = F-522(27)
"T" (TOPICS) = T-4005(6)

STATE JOB NO.	FED. RD. DIVISION	STATE	PROJECT
	2	OHIO	F-522(27) T-4005(6)

TRU.-422-14.67

5/22

TOTAL NO. OWNERS- 94 TOTAL NO. COMPLETE TAKES- 0 TOTAL OWNERS WITH STRUCTURES INVOLVED- 0

PARCEL NO.	OWNER	DEED RECORD BOOK	DEED RECORD PAGE	DEED RECORD DATE	DEED AREA	TOTAL PRO	GROSS TAKE	PRO IN TAKE	NET TAKE	NET RES. LT.	NET RES. RT.	BLDG'S TO BE ACQ'D	SHEET No.	TYPE FUNDS	REMARKS
1 To 5	NOT USED														
6	THE FOREST-ATLANTIC CORPORATION, AN OHIO CORPORATION	744	698		156,629 S.F.	7,218 S.F.	NO TAKE	—	NO TAKE				14		
7	NOT USED														
8	RADIO STATION WHHH, INC., A CORPORATION	791	1143		40,000 S.F.	1,198 S.F.	NO TAKE	—	NO TAKE				14		
9	DO-CUT SALES AND SERVICE, INC.	909	677		21,780 S.F.	2,146 S.F.	NO TAKE	—	NO TAKE				14		
10	RIDGEVIEW REALTY, INC., AN OHIO	748	813		16.53 Ac.	0.39 Ac.	0.01 Ac (255 S.F.)	—	0.01 Ac (255 S.F.)	—	16.13 Ac.	No	14		
10-T	CORPORATION						0.10 Ac.	—	0.10 Ac.				14		DRIVE AND GRADING
11	WALTER K. BENEDICKTUS AND JOSEPHINE A. BENEDICKTUS	813	616		10,634 S.F.	1,928 S.F.							14		
12-T	A. & M. DEVELOPMENT, INC.	881	344		5.00 Ac.	0.18 Ac.	0.02 Ac.	—	0.02 Ac.	—	4.82 Ac.	No	14		GRADING
13-S	ROBERT C. LEWIS & CAROLYN A. SIDDALL	751	481		80,289 S.F.	7,568 S.F.	174 S.F.	—	174 S.F.			No	14	FUND-F	SEWER
13-T							350 S.F.	—	350 S.F.				14		DRIVE
14-T	G. BRIAN SHEEHE AND ESTHER L. SHEEHE	876	905		7.50 Ac.	0.28 Ac.	0.04 Ac.	—	0.04 Ac.	—	7.22 Ac.	No	14		DRIVE AND GRADING
14-T-1							0.01 Ac. (150 S.F.)		0.01 Ac. (150 S.F.)				14		DRIVE
15	PAT FINELLI AND MARY FINELLI, OWNERS; MACK L. ROZZANO AND FRANCES C. ROZZANO, HOLDERS OF LAND CONTRACT	813	802		0.64 Ac.	0.10 Ac.	NO TAKE		NO TAKE				14		DRIVE. (L.C. VOL. 904, PG. 382)
													14		DRIVE
16-WA	DANIEL McGARVEY AND BERNICE McGARVEY	378 367	278 573		0.28 Ac.	0.04 Ac.							14		DRIVE
17-WA	JOHN A. GRIMA AND JOSEPH N. GRIMA	859	1134		0.82 Ac.	0.13 Ac.							14		DRIVE
18-WA	DOROTHY R. WELLING	400	31		4.72 Ac.	0.08 Ac.							14		DRIVE
19-WA	BENEVOLENT AND PROTECTIVE ORDER OF ELKS OF WARREN, OHIO LODGE 295	"SEE REMARKS"			3.61 Ac.	0.17 Ac.							14		DRIVE VOL. 905, PG. 930; VOL. 836, PG. 282; VOL. 802, PG. 949; VOL. 791, PG. 653
															DEED AREA INCLUDES SUB-LOTS 28 & 29 OF THE ROSEWAY ALLOTMENT, VOL. 14, PG. 3
20 PR	ELISA ABRUZZI, DUILA ABRUZZI LOMBARDI,	805	158		5.00 Ac.	0.12 Ac.	0.04 Ac.		0.04 Ac.		4.88 Ac.		14		PR FOR DRIVE
	GINA BODOR, FKA GINA ABRUZZI AND SERGIO ABRUZZI	774	208										14		"
21	RICHARD F. NATALE	757 806	543 242		15,468 S.F.	—	NO TAKE	—	NO TAKE				14		SUB-LOT 1 ROSEWAY ALLOTMENT, VOL. 14, PG. 3

COMPLETION DATE

DATE	REVISION DESCRIPTION
7-28-71	DELETED PARCELS 11-WD & 18-WD & CHANGED DEED RECORD PAGE PARCEL 13
8-18-71	DELETED PARCELS 15-WA, 18A-WA 20-WA & 20A-WA
8-24-71	REVISED AREA - 14T
11-4-71	CHANGED PARCEL 14-WA TO 14-T-1
11-30-72	Changed Pcl 20 to 20PR
12-12-72	ADDED PR AREA PCL. 20PR

SURVEYED	DRAWN BY	DESIGN	CHECKED	SUPERVISED

LD 0305
4-1-68

SUMMARY OF ADDITIONAL RIGHT OF WAY REQUIRED

STATE JOB NO.	FED. RD. DIVISION	STATE	PROJECT	
	2	OHIO		

TRU-422-1467

6/22

PARCEL NO.	OWNER	DEED RECORD BOOK	DEED RECORD PAGE	DEED RECORD DATE	DEED AREA	TOTAL PRO	GROSS TAKE	PRO IN TAKE	NET TAKE	NET RES. LT.	NET RES. RT.	BLDG'S TO BE ACQ'D	SHEET No.	TYPE FUNDS	REMARKS
22-WA	Bock Transfer and Storage Co.	726	39		10.00Ac.	0.28Ac.							14		Drive
22A-WA													14		Drive
23	Donald J. Fitch	826	461		20,160S.F.	———	No Take	———	No Take				14		Sub-Lots 2 & 3 Roseway Allotment, Vol. 14, Pg. 3
24-PR	Americo Pesigne and Esther Pesigne	503	619		5.00Ac.	0.16Ac.	0.02 Ac.		0.02 Ac.		4.84 Ac.		14		PR for Drive
24A-PR													14		"
25	Motor Express, Inc., an Ohio Corporation	897	873		5.00Ac.	0.24Ac.	No Take	———	No Take				14		
26-WD	William Hanley and Jules C. Passell,	882	287		22,440S.F.	———	50 S.F.	———	50 S.F.	———	22,390S.F.	No	14		Sub-Lot 39 Struby Plat, Vol. 17, Pg. 24
26-SA	a General Partnership														*Owners Compensated for Flooding & Ponding of Water to their Business by "Special Waiver of Damage" Dated 4-30-74
27	Wayne C. Greenwood, Jr.	889 892	766 1122		4.13Ac.	0.33Ac.	No Take	———	No Take				14		
28-WD	Hilda Development and Realty Corporation,	"See Remarks"			155,509S.F.	4000S.F.	50 S.F.	———	50 S.F.	———	151,459S.F.	No	14		Sub-Lots 1 & 2 Struby Plat, Vol. 17, Pg. 24 (Deed Record - Vol. 893, Pg. 124, Vol. 681,
	an Ohio Corporation														Pg. 373, Vol. 665, Pg. 45, Vol. 911, Pg. 705, Vol. 911, Pg. 703, Vol. 884 Pg. 467)
29-T	The Harry Winter Construction Co, an	905	1131		22.19Ac	0.58Ac.	0.14Ac.	———	0.14Ac.	21.61 Ac.	———	No	14, 15		Drives and Grading
	Ohio Corporation and Albert Tuber	907	798												
29A-WA	Max E. Pearlstein, Janyce B. Pearlstein,	916	714		0.50Ac.	0.09Ac.							15		Drive
	Aaron Hank and Emil Hank														
30WA	Raymond Gerald Hardman and Mary T. Hardman	854	341		0.41Ac.	0.06Ac.	0.01Ac.	———	0.01Ac.	———	0.35Ac.	No	14		Drive
31-T	The Pineview Memorial Park Association,	383	150		1,799,899S.F.	68,389S.F.	1000 S.F.	———	1000 S.F.	1,731,510S.F.	———	No	15		Drive Part of Sub Lots 13 & 14, All of Sub-Lots 12, 15 thru 27 Incl.
31A-T	a Corporation	383	128				708 S.F.	———	708 S.F.				15		Drive of the Garghill Little Farms Plat, Vol. 9, Pg. 46
31B-T		383	88				302 S.F.	———	302 S.F.				15		Grading
31A-WA		383	77										15		Drive
31B-WA													15		Drive
31C-WA													15		Drive
32	Joseph Sarkies	918	565		3.24Ac.	0.13Ac.	(253S.F.) 0.01Ac.	———	(253S.F.) 0.01Ac.	———	3.10Ac.	No	15		
32-T	"						0.03Ac.	———	0.03Ac.				14, 15		Drives & Grading
33-WA	John E. Yakovac and James R. Soda	"See Remarks"			128,888S.F.	22,651S.F.							15		Drive Part of Sub-Lots 4, 13 & 14 Garghill Little Farms Plat, Vol. 9, Pg. 46
33A-WA													15		Drive (Deed Record - Vol. 875, Pg. 627, Vol. 875, Pg. 624, Vol. 875, Pg. 619, Vol. 830, Pg. 394)
34	John Iacozili and Mary Iacozili	782	1131		4.29Ac	0.07Ac.	(253S.F.) 0.01Ac.	———	(205S.F.) 0.01Ac.	———	4.21Ac.	No	15		
34-T	" " " "						0.01Ac.	———	0.01Ac.				15		Grading
34A	Anthony Parisi, Sarah Parisi and	215	366		1.07Ac.	0.03Ac.	No Take		No Take				15		
	F.J. Strub	598	544												

FEE-FUNDS

COMPLETION DATE					
DATE	REVISION DESCRIPTION				
7-28-71	Revised Deed Record Page Pcls. 22 & 29				
8-24-71	Added 28WA				
9-7-71	Corrected Pcl. 30-T to 30WA				
10-5-71	Deleted Pcl. 34A-WA				
11-18-71	Deleted Pcls. 26WA, 28WA, 31A & B-WA				
11-30-72	Changed Pcl 29WA to 29PR & 29A-WA to 29A-T ~~Added SA Pcl 26 S-3-74~~				
12-12-72	Added PR Area Pcl. 24PR				
SURVEYED	DRAWN BY	DESIGN	CHECKED	SUPERVISED	

LD 0305
4-1-68

SUMMARY OF ADDITIONAL RIGHT OF WAY REQUIRED

STATE JOB NO.	FED. RD. DIVISION	STATE	PROJECT	
	2	OHIO		

TRU-422-14.67

7 / 22

PARCEL NO.	OWNER	DEED RECORD BOOK	PAGE	DATE	DEED AREA	TOTAL PRO	GROSS TAKE	PRO IN TAKE	NET TAKE	NET RES. LT.	NET RES. RT.	BLDG'S TO BE ACQ'D	SHEET No.	TYPE FUNDS	REMARKS
35-WA	CHARLES SFERRA, SAMUEL PETKOVICH AND	807	454		45,738 S.F.	3,049 S.F.							15	F	DRIVE PART OF SUB-LOT 4, GARGHILL LITTLE FARMS PLAT VOL. 9, PG. 46
	SAMUEL D'AGATI														
36	JOSEPH J. COMPARATO	891	18		15.12 Ac.	0.39 Ac.	(25 S.F.) 0.01 Ac.	———	(25 S.F.) 0.01 Ac	———	14.72 Ac.	No	15	F	
36-T							0.06 Ac	———	0.06 Ac				15	F	DRIVE AND GRADING
36-WA													15	F	DRIVE
37-WD	J.J.D. INC., AN OHIO CORPORATION	"SEE REMARKS"			215,622 S.F.	15,681 S.F.	11,360 S.F.	7,096 S.F.	4,264 S.F.	195,677 S.F.	———	No	20	T	VOL. 850, PG. 114.0, VOL. 840, PG. 342, VOL. 800, PG. 946 PART OF SUB-LOTS 1 & 2 AND
37-T	" " " " "						2988 S.F.	———	2988 S.F.				20	T	DRIVE AND GRADING ALL OF SUB-LOT 3, GARGHILL LITTLE FARMS PLAT, VOL 9, PG 46
														F	
38-WA	FERDINAND J. RENZ AND JULIA RENZ	842	700		0.69 Ac.	0.09 Ac.							15	F	DRIVE
39-WD	ESTATE OF CLARENCE W. OTTO AKA C.W. OTTO, DECEASED AND	"SEE REMARKS"			93,218 S.F.	16,117 S.F.	9,339 S.F.	7,008 S.F.	2,331 S.F.	74,770 S.F.	———	No	16.20	T	VOL 471, PG. 42, VOL 447, PG. 117, VOL. 432, PG 453, VOL. 432, PG 452, VOL. 386, PG. 500, VOL. 386, PG. 579
39-T	MARY C OTTO						2,268 S.F.	———	2,268 S.F.				16.20	T	GRADING PART OF SUB-LOTS 1 & 2, GARGHILL LITTLE FARMS PLAT, VOL. 9, PG. 46
40-WA	ANGELO HAIDARIS, JOHN BELLAS AND GUS KOUPAS	"SEE REMARKS"			0.45 Ac.	0.08 Ac.							15	F	DRIVE VOL. 906, PG. 823; VOL. 906, PG. 821; VOL. 805, PG. 271
40A-WA	" " " " " "														DRIVE
41	NOT USED														
42A-WA	SARKIES ENTERPRISES, INC.,	817	1082		5.11 Ac.	0.08 Ac.		———					15	F	DRIVE
	AN OHIO CORPORATION													F	
43 WD	ANTHONY CIMINERO AND NELLIE CIMINERO	900	905		148,757 S.F.	4,375 S.F.	5,466 S.F.	4,375 S.F.	1,091 S.F.	143,291 S.F.	———	No	20	T	SUB-LOT 5 GARGHILL LITTLE FARMS PLAT, VOL 9, PG. 46
														F	
44-WA	MARK FIGETAKIS	920	924		1.20 Ac.	0.20 Ac.							15	F	DRIVE
44A-WA													15	F	DRIVE
45	MYRON E. DAUM AND FERN DAUM	435	123		148,757 S.F.	4,375 S.F.	NO TAKE	———	NO TAKE				20	T	SUB-LOT 6, GARGHILL LITTLE FARMS PLAT, VOL. 9, PG. 46
46-T	CESIDIA FIORE ET. AL	"SEE BELOW"			8.39 Ac	0.41 Ac.	0.14 Ac.	———	0.14 Ac.	———	7.98 Ac.	No	15	F	DRIVES AND GRADING
47-48	NOT USED														
49	MARY A. HARNAR	502 383	270 158		12.54 Ac.	0.08 Ac.	NO TAKE	———	NO TAKE				20	T	
50	NOT USED														
51	MANUEL J. SKOPOS AND EUGENIA SKOPOS	818	700		0.72 Ac.	0.06 Ac.	NO TAKE	———	NO TAKE				20	T	
52-T	THE TOWN AND COUNTRY MOTEL COMPANY,	868	971		4.88 Ac.	0.32 Ac.	0.11 Ac.	———	0.11 Ac.	———	4.56 Ac.	No	15	F	DRIVE AND GRADING
	A PARTNERSHIP														

PCL 46-T ET. AL. OWNERS AND DEED RECORD

CESIDIA FIORE, GIULIO M. FIORE, LETIZIA FIORE, MARIO V FIORE, GAETANO PRINCIPI, AKA GAETANO PRINCIEPE, AKA GAETANO PRINCE, ANGELINE PRINCIPI, AKA ANGELINA PRINCIPI, AKA ANGELINA PRINCE, & GABRIELE P FIORE;
LAWRENCE PRINCE & GEORGE PRINCE, TRUSTEES
VOL. 849, PG. 382; VOL. 859, PG. 772; VOL. 821, PG. 988; VOL. 749, PG. 318; VOL. 577, PG. 144; VOL. 577, PG. 143; VOL. 498, PG. 281; VOL. 491, PG. 629; VOL. 566, PG. 216; VOL. 495, PG. 583

TYPE OF FUNDS
F = PRIMARY
T = TOPICS

COMPLETION DATE

DATE	REVISION DESCRIPTION
7-28-71	REVISED NAME PARCELS 42 & 46
8-20-71	DELETED PCL 37A-T & 43-T, REVISED TBA & RESIDUE FOR PCL 37-WD
9-10-71	REVISED FUNDING
11-1-71	REVISED TBA PCL 37-T & TBA & LEFT RESIDUE PCL 37-WD
	REVISED DEED AREA PCLS. 42A & 40 DELETED PCL 42 ADDED PCL 40-AWA
2-14-71	NAME REVISION PCL 39

SURVEYED	DRAWN BY	DESIGN	CHECKED	SUPERVISED

LD 0305
4-1-68

SUMMARY OF ADDITIONAL RIGHT OF WAY REQUIRED

STATE JOB NO.	FED. RD. DIVISION	STATE	PROJECT	
	2	OHIO		

TRU-422-14.67

B 22

PARCEL NO.	OWNER	DEED RECORD BOOK	PAGE	DATE	DEED AREA	TOTAL PRO	GROSS TAKE	PRO IN TAKE	NET TAKE	NET RES. LT.	NET RES. RT.	BLDG'S TO BE ACQ'D	SHEET Nº.	TYPE FUNDS	REMARKS
53-WD	JOSEPH C. COOK & BETTY C. COOK	930	550		0.72Ac.	0.06Ac.	0.07Ac.	0.06Ac	0.01Ac.	———	0.65Ac.	No	20	T	
54	MARY NICASTRO	406	42		1.57Ac.	0.11Ac.	NO TAKE	———	NO TAKE				15,	F	
55-WD	FORREST W. SMITH AND DOROTHY M. SMITH	436	240		0.93Ac.	0.07Ac	0.09Ac.	0.07Ac	0.02Ac.	———	0.84Ac	No	20	T	
55-T							0.05Ac.	———	0.05Ac.				20	T	DRIVE AND GRADING
56	SERGASCO, INC., A DELAWARE CORPORATION	799	863		1.05Ac.	0.22Ac.	NO TAKE		NO TAKE				15		
57-WD	CHRIST MICHELAKIS AND MARGARET MICHELAKIS, OWNERS	926 925	901 874		0.75Ac.	0.06Ac.	0.09Ac.	0.06Ac	0.03Ac.	———	0.66 Ac.	No	20	T	
57-T	EMMANUEL N. MICHELAKIS & CHRISTINE MICHELAKIS, HOLDERS OF LAND CONTRACT						0.06Ac.	———	0.06Ac.				20	T	DRIVES AND GRADING
58-PR	GUERINO ABRUZZI DBA CAFE 422, AKA GUERINO	880	1118		3.60Ac.	0.39Ac	0.09 Ac.		0.09Ac.		3.21 Ac.		15,16		PR FOR DRIVE
	ABRUZZI, AKA GUERINO ABRUZZO	520 447	198 522												
59-WD	DALE N. MILLS AND MARY J. MILLS, OWNERS,	599	324		0.77Ac.	0.06Ac.	0.08Ac.	0.06Ac	0.02Ac.	———	0.69Ac.	No.	20	T	L.C. VOL. 63, PG. 265
59-T	SETH W. BARTLETTE AND JANE BARTLETTE,	419	235				0.02Ac	———	0.02Ac.				20	T	DRIVE AND GRADING
	HOLDERS OF LAND CONTRACT														
60-WD	P.M. GAS WASH CO.	920	1015		639465.F.	———	511 S.F.	———	511 S.F.	———	61,961 S.F.	No	16	T	
60-WD-1							1,474 S.F.	———	1,474 S.F.				20	T	
60-T							344 S.F.	———	344 S.F.				16	T	GRADING
60-T-1							415 S.F.	———	415 S.F.				20	T	DRIVE & RECONNECT EXISTING CATCH BASIN
60A-WD	FRANK FETCHET AND CAROLYNE J. FETCHET	842	1107		22,500SF	———	751 S.F.	———	751 S.F.	———	21,749 S.F.	No	16	T	
60A-T							751 S.F.	———	751 S.F.				16	T	DRIVES AND GRADING
60B-WD	FRANK BESHARA AND FRANK FETCHET	749 748	34 78		26,013SF	2,014 S.F.	3,343 SF	2,014 SF	1,329SF	22,670 SF	———	No	20	T	
60B-T							966 S.F.		966 S.F.				20	T	DRIVE
60B-WD1	FRANK BESHARA AND FRANK FETCHET	749 748	34 78		16,174 SF	1,280 S.F.	1,664 S.F.	1,280 S.F.	384 SF	14,510 SF	———	No	20	T	
61	NOT USED														
62-WD	TREMARCO CORPORATION, A DELAWARE	677	91		22,500SF	———	4,630 S.F.	———	4,630 S.F.	———	17,870 S.F.	No	16,20	T	
62-T	CORPORATION						3,060 S.F.	———	3,060 S.F.				16.20	T	DRIVES AND GRADING
63-WD	REPROCO, INC., A DELAWARE CORPORATION	888	450		0.61Ac	0.18Ac.	0.24Ac	0.18Ac	0.06Ac	0.37Ac	———	No	16,20	T	
63-AWA	" " "						0.06Ac.	———	0.06Ac.				16,20	T	DRIVES AND GRADING
63-WA	" " "												16,20	T	REMOVAL OF OVERHANG
64	NOT USED														

ADDED PR AREA PL 58PR 12-12-72
CHANGED PCL 58 TO 58PR 1-10-72
REVISED NAME PCLS 57, 1-22-71
DELETED PARCELS 56-T & 58-T 11-8-71

TYPE OF FUNDS
F = PRIMARY
T = TOPICS

COMPLETION DATE

DATE	REVISION DESCRIPTION
7-28-71	REVISED NAME PARCELS 55 & 60A
8-20-71	ADDED PCL 60-T-1, REVISED T/BA FOR PCLS. 55-T, 59-T & 63-T
9-10-71	REVISED FUNDING
9-16-71	REVISED NAME PCL 57 WD, T
9-29-71	REVISED NAME, VOL & PG PCL 53 WD
10-12-71	CORRECTED AREA OF T/BA & RESIDUE PCL 62 WD
10-22-71	CONVERTED 63-T TO 63 AWA per GUEBOK 10-22-71

SURVEYED	DRAWN BY	DESIGN	CHECKED	SUPERVISED	

LD 0305
4-1-68

SUMMARY OF ADDITIONAL RIGHT OF WAY REQUIRED

STATE JOB NO.	FED. RD. DIVISION	STATE	PROJECT	
	2	OHIO		

TRU-422-1467

9/22

TOTAL NO. OWNERS-

PARCEL NO.	OWNER	DEED RECORD BOOK	PAGE	DATE	DEED AREA	TOTAL PRO	GROSS TAKE	PRO IN TAKE	NET TAKE	NET RES. LT.	NET RES. RT.	BLDG'S TO BE ACQ'D	SHEET NO.	TYPE FUNDS	REMARKS
65-WD	HARRY S KEFFALOS AND MARY	816	64		1.49Ac	0.16Ac.	0.17 Ac.	0.12Ac.	0.05Ac.	1.26 Ac.		No	16	T	HARRY KEFFALOS, SR LIFE ESTATE IN 1.21 Ac VOL. 816 Pg. 64
65A-WD	KEFFALOS	822	379				0.06Ac.	0.04Ac.	0.02Ac.				20	T	
65 T							0.04Ac.		0.04Ac				16	T	DRIVE AND GRADING
65A-T							0.03Ac.		0.03Ac.				20	T	DRIVE AND GRADING
66	NOT USED														
67	CERNI MOTOR SALES, INC.	879	1057		126,324SF	5,974SF		———		117,968 SF	———	No	16		
67-WD	" " " "						8,356 S.F.	5,974 S.F.	2,382 S.F.				16	T	
68-WD	THIRD WARREN CORP, AN OHIO CORPORATION	875	847		383,502SF	31,806SF	47,626S.F.	31,806S.F.	15,820SF.	———	335,876SF	No	16	F	
69-T	JOHN CERNI AND CHARLES CERNI	886	479		35,545SF	1,638S.F.	565S.F.	———	565 S.F	33,592S.F.	———	No	16	T	DRIVE AND GRADING B&P LEASE TO CERNI MOTOR SALES, INC VOL 80 PG. 617
69-WD	" " " " " "						1,953 S.F.	1,638 S.F.	315 SF				16	T	
70-S	THE SUN OIL COMPANY, OF PENNSYLVANIA, A	753	406		22,500SF	———	751 S.F.	———	751 S.F.	———	22,500SF	No	16,20	T	SEWER
70-T	PENNSLYVANIA CORPORATION						754 S.F.	———	754 S.F				16,20	T	GRADING
71-T	THOMAS G. HAIDARIS, GEORGE G. HAIDARIS AND ANGELO HAIDARIS	752	832		63,336SF	2,973SF	1,447S.F.	———	1,447S.F	60,363SF	———	No	16	F	DRIVES & GRADING
72-QC	NILES ASSOCIATES, AN OHIO LIMITED	890	99		370,652SF	30,812SF	27,891S.F.	27,197S.F.	694S.F.	———	339,146SF	No	16	T	
72-S	PARTNERSHIP						762 SF	———	762 S.F.				'6	T	SEWER
72-T							4,495S.F.	———	4,495S.F.				16	T	DRIVE AND GRADING
73WA	RAYMOND E LONSWAY	679 927	32 729		154,017SF	6,104S.F.							16	F	DRIVE
74-T	HAROLD E HAUGHTON AND LILLIAN R. HAUGHTON	843	116		33,600SF	———	2,153SF	———	2,153SF	———	33,600SF	No	16	F	GRADING SUB-LOTS 1&2 VALLEY HOME GARDEN ACRES, VOL. 11, PG. 22
75-S	WILLIAM NILES CORP., AN OHIO CORPORATION	959	65		477,997S.F.	15,631S.F.	918S.F.	———	918SF	462,368SF.	———	No	16	F	
75-T							2,069 S.F.		2,069 S.F.				16	F	GRADING
76-T	ALTA CHEONCHEO AKA ALTO CHEONCHEO	"SEE REMARKS"			105,959SF	2,087S.F.	1,665S.F.	———	1,665SF	———	103,852SF	No	16,17	F	DRIVE AND GRADING VOL. 719, PG 601, VOL. 408, PG. 39, VOL. 392, PG. 231, VOL. 394 PG. 26 SUB-LOTS 3, 4 & 164 VALLEY HOME GARDEN ACRES, VOL. 11, PG. 22
77	PAUL G CAPITO AND JULIA G. CAPITO	756	235		25,091SF	11,380SF	504 SF	———	504 SF	13,207	———	No	16	F	
77-T							4807 S.F.	———	4807 S.F				16	F	GRADING
78	ROSE M. DECHRISTOFARO AND FELICIA E. DICHRISTOFARO	857	480		23,523SF	1353 SF	NO TAKE		NO TAKE				17	F	PART OF SUB LOT 5 VALLEY HOME GARDEN ACRES, VOL. 11, PG. 22
79	THE SECOND NATIONAL BANK OF WARREN,	883	991		30,230SF	5,540SF	1,445S.F.	———	1,445S.F	23,245SF	———	No	16,17	F	
79-T	TRUSTEE						502S.F.	———	502S.F.				16,17	F	DRIVE

TYPE OF FUNDS

T= TOPICS

5-8-73 REV NAME PCL 75-S

2-14-73 REV. 72WD TO 72 &C R.S.

COMPLETION DATE					
DATE	REVISION DESCRIPTION				
8-20-71	ADDED PCL 75-T				
9-8-71	ADDED PARCEL 73WA				
9-10-71	REVISED FUNDING				
9-27-71					
10-8-71	DELETED PCL 67-T ADDED 67WA				
11-1-71	REVISED T.B.A. PCL. 77-T				
3-29-72	REVISED NAME PCL 70				
SURVEYED	DRAWN BY	DESIGN	CHECKED	SUPERVISED	

LD 0305
4-1-68

SUMMARY OF ADDITIONAL RIGHT OF WAY REQUIRED

STATE JOB NO.	FED. AID DIVISION	STATE	PROJECT
	2	OHIO	

10/22

PARCEL NO.	OWNER	DEED RECORD BOOK	DEED RECORD PAGE	DEED RECORD DATE	DEED AREA	TOTAL PRO	GROSS TAKE	PRO IN TAKE	NET TAKE	NET RES. LT.	NET RES. RT.	BLDG'S TO BE ACQ'D	SHEET Nº	TYPE FUNDS	REMARKS
80	ALBEE HOMES, INC.	669	451		39,040 S.F.	—	No Take		No Take				17		
81	MARY SCARNECCHIA ET AL.				68,389 S.F.	7,344 S.F.	613 S.F.		613 S.F.	60,432 S.F.					
81-T	" " "	"SEE BELOW"					402 S.F.	—	402 S.F.		—	No	17		LEASED TO STANDARD OIL COMPANY, VOL. 83, PG. 884, VOL. 84, PG. 122; VOL. 84, PG. 368; VOL. 83, PG. 881; VOL. 84, 119; VOL. 84, PG. 365 DRIVES & GRADING
81-A-T	" " "						520 S.F.		520 S.F.						
82-T	HOWLAND ENTERPRISES, INC. FKA THE	737 905	583 676		799,313 S.F.	36,959 S.F.	8,871 S.F.	—	8,871 S.F.	—	762,339 S.F.	No	17, 18		DRIVES AND GRADING. DEED AREA INCLUDES CITY LOTS 7383, 7385 AND 7386
82	LAVERNE DRIVE-IN-THEATER CORPORATION,	888 888	295 293				15 S.F.	—	15 S.F.				17		
	AN OHIO CORPORATION	530	588												
83-T	PARK SOUTH CORPORATION	858	26				1,937 S.F.		1,937 S.F.			No.	17		DRIVE
84-WA	LINCOLN HOMES COMPANY, A	771	284		58,130 S.F.	2,521 S.F.							17		DRIVE
84A-WA	PENNSYLVANIA CORPORATION												17		DRIVE
85-WD	ROMAR, INC.	919	959		548,419 S.F.	81,579 S.F.	60,215 S.F.	52,975 S.F.	7,240 S.F.	459,600 S.F.	—	No	17, 18		DEED AREA CALCULATED - SEE NOTE "A"
85-S							2,189 S.F.	—	2,189 S.F.				17		SEWER
85-T							8069 S.F.		8069 S.F.				17, 18		GRADING AND DRIVES
86-T	CHARLES P. LAMONGE AND THOMAS J. MATASH	861	230		20,000 S.F.	—	1,252 S.F.	—	1,252 S.F.	—	20,000 S.F.	NO	18		CITY LOT 7389, FORMERLY SUB-LOT 23 HOWLAND HOMES SUBDIVISION, PLAT 3, VOL. 11, PG. 38 DRIVES
87	CARMEN DELLATRECCHIA	780	780		30,165 S.F.	—	No Take	—	No Take				18		SUB-LOT 186, HOWLAND HOMES SUBDIVISION, PLAT Nº 3, VOL. 11, PG. 38
88-T	TRUMBULL INVESTMENT CO., INC., AN OHIO CORPORATION	770	542		17,151 S.F.	—	870 S.F.	—	870 S.F.	—	17,151 S.F.	No	18		CITY LOT 7390, FORMERLY SUB-LOT 24, HOWLAND HOMES SUBDIVISION, PLAT Nº 3, VOL. 11, PG. 38 DRIVE
89-T	JAMES BERNARD, JR.	884	319		20,018 S.F.	—	1,307 S.F.	—	1,307 S.F.	20,018 S.F.	—	No	18		DRIVE AND GRADING. SUB-LOT 187 HOWLAND HOMES SUBDIVISION, PLAT Nº 3, VOL. 11, PG. 38
90	RICHARD J. SKIFFEY AND ROSE RAE SKIFFEY	841 833	188 628		20,000 S.F.	—	No Take		No Take				18		CITY LOT 7391, FORMERLY SUB-LOT 25, HOWLAND HOMES SUBDIVISION, PLAT Nº 3, VOL. 11, PG. 38
91-WD	TRUMBULL NEW THEATRE, INC.	746	874		78,231 S.F.	14 S.F.	316 S.F.	14 S.F.	302 S.F.	77,915 S.F.	—	No	18		ALL OF SUB-LOT 188, PART OF SUB-LOT 189, HOWLAND HOMES SUBDIVISION, PLAT Nº 3
91-T		635	232				2,307 S.F.		2,307 S.F.				18		DRIVE AND GRADING VOL. 11, PG. 38
92-T	FRED C. MORRIS AND CLYDE H. FISHER	820 810	481 723		80,000 S.F.	—	275 S.F.	—	275 S.F.	—	80,000 S.F.	No	18		CITY LOTS 7392, 7393, 7394, 7395, FORMERLY SUB-LOTS 26, 27, 28, 29 HOWLAND HOMES SUBDIVISION, PLAT Nº 3, VOL. 11, PG. 38
		713	1												
93-WD	JOSEPH A. GILMOUR	800	1058		32,319 S.F.	1,189 S.F.	70 S.F.	61 S.F.	9 S.F.	31,121 S.F.	—	No	18		ALL OF SUB-LOT 190, PART OF SUB-LOTS 189 & 191 HOWLAND HOMES SUBDIVISION
93-T		835	374				675 S.F.	—	675 S.F.				18		DRIVE & GRADING PLAT Nº 3, VOL. 11, PG. 38
94-T	STATEWIDE STATIONS, INC., A DELAWARE CORPORATION	817	1140		37,312 S.F.		497 S.F.	—	497 S.F.	—	37,312 S.F.	NO	18		CITY LOTS 7396, 7397 FORMERLY SUB-LOTS 30, 31, HOWLAND HOMES DRIVE AND GRADING SUBDIVISIONS PLAT Nº 3, VOL. 11, PG. 38
94A-T							2315 S.F.	—	2315 S.F.				18		GRADING
94B-WD	TEXACO INC., A DELAWARE CORPORATION	944	685		50 S.F.		50 S.F.	—	50 S.F.	—	—	No	18		CITY LOT 7397
95-WA	THEODORE L. SWARTZ AND MARGARET L. SWARTZ	815	435		32,072 S.F.	231 S.F.							18		DRIVE PART OF SUB-LOT 191 HOWLAND HOMES SUBDIVISIONS, PLAT Nº 3, VOL. 11, PG. 38

F-FUNDS

PCL. 81 ETAL OWNERS AND DEED RECORD

MARY SCARNECCHIA; IRENE SCARNECCHIA; PALMER C. SCARNECCHIA; GILBERT SCARNECCHIA; MARGARET S. MAHAN; GLORIA FOGARTY

VOL. 902, PG. 146; VOL. 898, PG. 639; VOL. 657, PG. 19; VOL. 361, PG. 494

NOTE "A"
DEED AREA FOR PCL 85 CALCULATED FROM THE EXISTING EASTERLY R/W LINE OF MINES RD. RELOCATION TO THE GRANTOR'S EASTERLY PL.

REV. DEED AREA & REVISE PCL. 94-WD 4-23-73

COMPLETION DATE

DATE	REVISION DESCRIPTION
7-28-71	ADDED VOL. & PGS. PARCEL 83
8-23-71	REVISED NAME VOL. & PG. PARCEL 83-T
10-14-71	DELETED PCL. 87-T
10-18-71	ADDED PCL. 82 REVISED AREA PCL 82-T
11-16-71	REVISED T.B.A. PCL 81 & ADDED PCLS. 81-T & A
5-23-72	REVISED 94WD TO 94BWD (OUTSALE)

SURVEYED	DRAWN BY	DESIGN	CHECKED	QUANTITIES

LD 0305
4-1-69

SUMMARY OF ADDITIONAL RIGHT OF WAY REQUIRED

112

STATE JOB NO.	FED. RD. DIVISION	STATE	PROJECT	
	2	OHIO		

11/22

PARCEL NO.	OWNER	DEED RECORD BOOK	PAGE	DATE	DEED AREA	TOTAL PRO	GROSS TAKE	PRO IN TAKE	NET TAKE	NET RES. LT.	NET RES. RT.	BLDG'S TO BE ACQ'D	SHEET Nº.	TYPE FUNDS	REMARKS
96-WD	C. R. PROPERTIES, INC., AN OHIO	794	272		577,300 S.F.	—	3,193 S.F.	—	3,193 S.F.	—	573,633 S.F.	No	18 & 19	T	
96A-WD	CORPORATION	902	871				312 S.F.	—	312 S.F.				19, 21	T	
96B-WD		785	712				162 S.F.	—	162 S.F.				21	T	
								—							
96-T							11,167 S.F.	—	11,167 S.F.				18 & 19	T	DRIVE AND WORKING SPACE
96AT							7,349 S.F.	—	7,349 S.F.				19, 21	T	DRIVES AND GRADING
97-WD	ESTHER D. LEVY	632	41		40,360 S.F.	—	1,693 S.F.	—	1,693 SF	38,667 S.F.	—	No	18	F	SUB-LOTS 192, 193, HOWLAND HOMES SUBDIVISION, PLAT Nº 3, VOL. 11, PG. 38
97-T							752 S.F.	—	752 SF				18	F	
98-T	KHEVA T. GHISEA aka KHEVA TANASE	562	416		23,000 S.F.	—	805 S.F.	—	805 S.F.	23,000 S.F.	—	No	21	T	GRADING CITY LOT 7403, FORMERLY SUB-LOT 44, HOWLAND HOMES SUBDIVISION
	GHISEA	928	43												PLAT Nº 3, VOL. 11, PG. 38
98A-T	RONALD E. LEONARD AND JANE E. LEONARD	855	487		20,000 S.F.	—	700 S.F.	—	700 S.F.	20,000 S.F.	—	No	21	T	DRIVE AND GRADING CITY LOT 7404, FORMERLY SUB-LOT 45, HOWLAND
															HOMES SUBDIVISION, PLAT Nº 3, VOL. 11, PG. 38
99 WD	ELIZABETH JONES	825 / 702	1082 / 17		19,788 S.F.	—	225 S.F.	—	225 S.F.	19,563 S.F.	—	No	18	F	SUB-LOT 194, HOWLAND HOMES SUBDIVISION, PLAT Nº 3, VOL. 11, PG. 38
99-T	"						1125 S.F.		1125 S.F.				18	F	GRADING
99-S	"						150 S.F.		150 S.F.				18	F	SEWER EASEMENT
100-WD	JOHN KOVACS AND HELEN M. KOVACS	644 / 383	345 / 54		40,270 S.F.	6,919 S.F.	7,762 S.F.	6,919 S.F.	843 S.F.	—	32,508 S.F.	No	21	T	
101-WD	SHANNON GROUP, AN OHIO PARTNERSHIP	924	856		58,418 S.F.	—	50 SF	—	50 SF.	58,368 S.F.	—	No	18	F	SUB-LOT 231, HOWLAND HOMES SUBDIVISION, PLAT Nº 3, VOL. 11, PG. 38
101-T							1005 S.F.		1005 S.F				18	F	GRADING
102-WD	HERSCHEL H. BUCHANAN	858	1038		134,918 S.F.	9,000 S.F.	10,536 S.F.	9,000 S.F.	1,536 S.F.	—	124,382 S.F.	No	21	T	SUB-LOT 6, RICHARD S. HAWKES PLAT No. 1 VOL. 14, PG. 100
102-T							3,961 S.F.		3,961 S.F.				21	T	DRIVES & GRADING
103-WA	LULA GENTITHES	596	221		174,240 S.F.	53,650 S.F.							18	T	DRIVE
103-A-WA													18	T	DRIVE
103-B-WA													19, 21	T	DRIVE & GRADING
103-C-WA													21	T	DRIVE
104-WD	CITY OF NILES, OHIO	639	176		7,875 S.F.	—	225 S.F.	—	225 S.F.	—	7,650 S.F.	No	21	T	SUB-LOT 1, RICHARD S. HAWKES PLAT No. 1 VOL. 14, PG 100
104-T							225 S.F.		225 S.F.				21	T	GRADING
105-T	CHARLE H. BENDIG & MARJORIE A. BENDIG	865	28		44,997 S.F.	4,950 S.F.	1457 SF		1,457 S.F.	40,047 S.F.	—	No	21	T	DRIVE & GRADING
106-WD	RICHARD S. HAWKES	677	69		21,000 S.F.	—	600 S.F.	—	600 S.F.	—	20,400 S.F.	No	19, 21	T	SUB-LOT 2 & PART OF SUBLOT 5, RICHARD S. HAWKES PLAT No. 1 VOL. 14, PG. 100
106-T							1,200 S.F.		1,200 S.F.				19, 21	T	DRIVE & GRADING
107	FRED H. LAW	SEE	REMARKS		45,900 S.F.	5,049 S.F.	NO TAKE		NO TAKE				21	T	VOL. 826, PG. 938 ; VOL. 826, PG. 936 ; VOL. 826, PG. 933 ; VOL. 833, PG. 956 ; VOL. 833, PG. 954
108-WD	THE STANDARD OIL COMPANY,	708	238		22,708 S.F.	—	947 S.F.	—	947 S.F.	—	21,761 S.F.	No	19, 21	T	SUB-LOT 3, RICHARD S. HAWKES PLAT No. 1 VOL. 14, PG. 100
108-T	AN OHIO CORPORATION						3,508 S.F.		3,508 S.F.				19, 21	T	DRIVE & GRADING

TYPE OF FUNDS
F = PRIMARY
T = TOPICS

COMPLETION DATE

DATE	REVISION DESCRIPTION
7-28-71	ADDED DEED VOL. PG. PARCEL 100
8-26-71	REVISED NAME PCL 101
9-10-71	REVISED FUNDING
9-29-71	CONVERTED "Ts" to WA's Pcl. 96 per Gusjak
3-19-73	REVISE PCL 99 WD TO 99 WD, S & T
	REV. T.B.A.'S REV. PCLS 96AWA & 96WA TO "Ts" 11-27-73

SURVEYED	DRAWN BY	DESIGN	CHECKED	SUPERVISED

LD 0305
4-1-68

SUMMARY OF ADDITIONAL RIGHT OF WAY REQUIRED

STATE JOB NO	FED. PROJ. NO	STATE	ROUTE
	X	OHIO	

TRU 422 - 14.67

12/22

PARCEL NO.	OWNER	DEED RECORD BOOK	DEED RECORD PAGE	DEED RECORD DATE	DEED AREA	TOTAL PRO	GROSS TAKE	PRO IN TAKE	NET TAKE	NET RES. L.T.	NET RES. R.T.	BLDG'S TO BE ACQ'D	SHEET NO	TYPE FUNDS	REMARKS
109	Sally E. Suda	881	795		115,948 S.F.	7,509 S.F.	No Take		No Take				21	T	
110	The I.E.R. Company, An Ohio Corporation	635	215		40,395 S.F.	———	No Take		No Take				19	T	Sub-Lot 4, Richard S. Hawkes Plat No. 1 Vol. 14, Pg 100
111-T	Sally J. Tenney	711	260		81,520 S.F.	5280 S.F.	1488 S.F.		1488 S.F.	———	76,240 S.F.	No	21	T	Drive & Grading
112	The Niles-Warren Motor Lodge, Inc., An Ohio Corporation	757	551		109,862 S.F.	9753 S.F.	No Take		No Take				19	T	Part Of Sub-Lot 5, Richard S. Hawkes Plat No. 1 Vol. 14, Pg. 100
113-WA	Rosario Basile	730	330		70,524 S.F.	4560 S.F.							21	T	Drive
113-A-WA													21	T	Work Space
114-S	Payless Stations, Inc.,	675	278		105,589 S.F.	18,076 S.F.	86 S.F.		86 S.F.	———	87,513 S.F.	No	19	F	
114-A-WA	A Kentucky Corporation	892	408										19	F	Drive
115-WD	Lawrence W. Jolley	861	1051		127,586 S.F.	———	1,365 S.F.	———	1,365 S.F.	———	126,221 S.F.	No	19,21	T	
115-T							975 S.F.		975 S.F.				19,21	T	Drive & Grading
115-S							250 S.F.		250 S.F.				21	T	Sewer
116-S	M & M Motels, Incorporated,	600	156		174,240 S.F.	13,982 S.F.	147 S.F.		147 S.F.	———	160,258 S.F.	No	19	F	
116-WA	An Ohio Corporation												19	F	Drives
117-WD	The Comparato Realty Company	856	628		126,760 S.F.	17,160 S.F.	20,500 S.F.	17,160 S.F.	3340 S.F.	106,260 S.F.	———	No	19,21	T	
117-T							763 S.F.		763 S.F.				19,21	T	Work Space
117-A-T							1,603 S.F.		1,603 S.F.				19,21	T	Work Space & Drive
118-WA	George W. Gales & Edith M. Gales	421	590		128,938 S.F.	7000 S.F.							19	F	Drive
119-WD	Franklyn Realty Company,	924	748		45,000 S.F.	6,001 S.F.	7,154 S.F.	6,001 S.F.	1153 S.F.	37,846 S.F.	———	No	19	T	
119-T	An Ohio Corporation	832	1121				917 S.F.		917 S.F.				19	T	Drives
120	Julia A. Howe	834	910		161,172 S.F.	7,000 S.F.	No Take		No Take				19		
121	Not Used														
122 WA	Eugene B. Kehn	509/450	44/232		154,963 S.F.	7,000 S.F.							19	F	Drive
123-WD	Z.D. West , Inc., A Delaware Corporation	939	569		30,000 S.F.	4,000 S.F.	4,649 S.F.	4,000 S.F.	649 S.F.	25,351 S.F.	———	No	19	T	
124	Tony A. Marr & Fannie M. Marr	748/550	9/383		88,557 S.F.	1,906 S.F.	No Take		No Take				19	F	
														F	
124-A	Tony Marr, Paul Marr & Rocco Constantino	550	383		255,193 S.F.	14,000 S.F.	No Take		No Take				19,20		

TYPE OF FUNDS
F= PRIMARY
T= TOPICS

DATE	REVISION DESCRIPTION
7-28-71	Added Deed Vol & Pg Parcel 114 Deleted Vol 1 Pg Parcel 123
8-25-71	Added Parcels 120 WA & 122 WA
9-10-71	Revised Funding
11-12-71	Deleted Pcl 120 WA
1-5-72	Revised Name Pcl 123 WD
3-1-73	Revised Area of Take Pcl. 115

COMPLETION DATE

LD 0305
4-1-69

SUMMARY OF ADDITIONAL RIGHT OF WAY REQUIRED

STATE JOB NO.	FED. RD. DIVISION	STATE	PROJECT	
	2	OHIO		

13
22

PARCEL NO.	OWNER	DEED RECORD BOOK	DEED RECORD PAGE	DEED RECORD DATE	DEED AREA	TOTAL PRO	GROSS TAKE	PRO IN TAKE	NET TAKE	NET RES. LT.	NET RES. RT.	BLDG'S TO BE ACQ'D	SHEET NO.	TYPE FUNDS	REMARKS
125	PAUL A. GUARNIERI &	776	495		178,519 S.F.	12,416 S.F.	426 S.F.		426 S.F.	165,677 S.F.	———	No	19	T	
125-WA	BERNARD W. ROSENBERG												19	T	DRIVE
125-A-WA													19	T	DRIVES
126	LOUIS DELUCIA	785	259		27,000 S.F.	6,000 S.F.	NO TAKE		NO TAKE				20	F	
127-WA	HOLLIDAY INN WARREN-NILES OHIO INC., AN OHIO CORPORATION	818	447		246,114 S.F.	13,162 S.F.							19	F	DRIVE & GRADING
128	FULLY R. SPAIN	679	569		27,000 S.F.	6,000 S.F.	NO TAKE		NO TAKE				20	F	
129-T	RICHARD F. ALBERINI aka. RICHARD ALBERINI &	SEE	REMARKS		147,217 S.F.	———	1,771 S.F.		1,771 S.F.	147,217 S.F.	———	No	19	F	DRIVE & GRADING VOL. 868, PG. 1041 ; VOL. 848, PG. 1104 ; VOL. 773, PG. 417 ;
129-WA	GILDA R. ALBERINI aka. GILDA ROSE ALBERINI												19	F	RECONNECT EXISTING PIPE VOL. 768, PG. 87 ; VOL. 750, PG. 927 ; VOL. 849, PG. 354 SUB-LOTS 20 THRU 42 ; 49 THRU 52 AND PART OF 76 IN THE LINCOLN REALTY COMPANY PLAT NO. 1 VOL. 12, PG. 32
130	GREEN ACRES, INC.	834 834	344 346		350,418 S.F.	9,000 S.F.	NO TAKE		NO TAKE				20	F	
131	ANDREW P. MALLIN & MARGARET W. MALLIN	SEE	REMARKS		67,200 S.F.	———	NO TAKE		NO TAKE				19		VOL. 920, PG. 949 ; VOL. 807, PG. 667 ; VOL. 498, PG. 483 ; VOL. 696, PG. 389 ; VOL. 671, PG. 91 ; VOL. 559, PG. 268 SUB-LOTS 14 THRU 19 AND 53 THRU 60 IN THE LINCOLN REALTY COMPANY PLAT NO. 1 VOL. 12, PG. 32
132	NOT USED														
133-T	MICHAEL LESTER aka. MICHAEL E. LESTER & CONNA A. LESTER f.k.a. CONNA NAN SCHULTZ	877 855 854 817	579 181 915 422		69,369 S.F.	———	3,701 S.F.		3,701 S.F.	69,369 S.F.	———	No	19 & 20	F	DRIVE & GRADING SUB-LOTS 5 THRU 13 AND 61 THRU 65 IN THE LINCOLN REALTY COMPANY PLAT NO. 1 VOL. 12, PG. 32
134-T	JOHN SLIWINSKI ET. AL.	896	125		17,816 S.F.	1,641 S.F.	1,641 S.F.		1,641 S.F.	16,175 SF	———	No	20	F	GRADING

PARCEL 134-T ET. AL. OWNERS
JOHN SLIWINSKI
DANIEL W. TITI
RAY TRAVAGLINI
SANDY B. PETRUSO
NICK CRISTO

TYPE OF FUNDS
F = PRIMARY
T = TOPICS

COMPLETION DATE	
DATE	REVISION DESCRIPTION
8-18-71	ADDED PCL. 134-T
9-10-71	REVISED FUNDING
11-1-71	DELETED PCL. 131-T
11-12-71	REVISED PCL 125WD to 125 EASEMENT

SURVEYED	DRAWN BY	DESIGN	CHECKED	SUPERVISED

LD 0305
4-1-68

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

TRU.-422-14.67

14/22

BY	DATE	CHECKED BY	DATE
EA	10-6-69	KW	6-17-70
Solomon	3-17-70		
Solomon	6-22-70		

LINE SHEET

SURVEYED
PLOTTED
INKED
DESIGNED
QUANTITIES

Changed R/W 20 Ft. to 24PR, 24AM to 24PR, 24A to 24PR & Changed Drives on Pcl. 20 & 24 11-30-72

DEF. STA. 773+17.76
Δ=1°17'Lt.

BEGIN SHEET STA. 772+00

MATCH LINE STA. 784+00

MATCH LINE STA. 784+00

END SHEET STA. 796+00

TRUMBULL COUNTY
HOWLAND TOWNSHIP
T-4N R-3W
LOT 39

TRUMBULL COUNTY
HOWLAND TOWNSHIP
T-4-N, R-3-W
LOT 39

TRUMBULL COUNTY
HOWLAND TOWNSHIP
T-4-N, R-3-W
LOT 40

BENEVOLENT & PROTECTIVE ORDER OF ELKS OF WARREN OHIO, LODGE 2295

ROSEWAY ALLOTMENT
LOT 1 | LOT 2 | LOT 3

DONALD J. FITCH
NO TAKE

RICHARD F. NATALE
NO TAKE

THE FOREST ATLANTIC CORPORATION

DO-CUT SALES & SERVICE, INC.
NO TAKE

RADIO STATION WHHH, INC.

WALTER K. BENEDICTUS & JOSEPHINE A. BENEDICTUS

ROBERT C. LEWIS & CAROLYN A. SIDDALL

PAT FINELLI & MARY FINELLI, OWNERS
MACK L. ROZZANO & FRANCES C. ROZZANO, HOLDERS OF LAND CONTRACT

JOHN N. GRIMA & JOSEPH N. GRIMA

RIDGEVIEW REALTY, INC.
AN OHIO CORPORATION

A & M DEVELOPMENT, INC.

G. BRIAN SHEEHE & ESTHER L. SHEEHE

Ridgeview Plaza Shopping Center

MOTOR EXPRESS, INC.,
AN OHIO CORPORATION

WAYNE C. GREENWOOD JR.

THE HARRY WINTER CONSTRUCTION CO.,
AN OHIO CORPORATION & ALBERT TUBER

ELISA ABRUZZI, DUILA ABRUZZI LOMBARDI, GINA BODOR f.k.a. GINA ABRUZZI & SERGIO ABRUZZI

DOROTHY R. WELLING

DANIEL McGARVEY & BERNICE McGARVEY

BOCK TRANSFER & STORAGE COMPANY

AMERICO PISEGNE & ESTHER PISEGNE

HILDA DEVELOPMENT & REALTY CORPORATION, AN OHIO CORPORATION

WILLIAM HANLEY & JULES C. PASSELL, A GENERAL PARTNERSHIP

RAYMOND GERALD HARDMAN & MARY T. HARDMAN

BEGIN ACQUISITION STA. 775+40.00

BEGIN PROJECT STA. 776+39.98
FED. NO. U-522 (27)

EXISTING SEWER EASEMENT LINE

EXISTING 10' EASEMENT TO TRUMBULL COUNTY VOL. 791, PG. 653

EXISTING EASEMENT TO TRUMBULL COUNTY VOL. 799 PG. 332

NOTE: THE CONC. RETAINING WALL IN PCL. 10-T NOT TO BE DISTURBED: SIGN AT STA. 777+00 - RT. & ENTRANCE POLE AT STA. 776 RT. NOT TO BE DISTURBED

NOTE: SIGN NOT TO BE DISTURBED

NOTE: LIGHT NOT TO BE DISTURBED

(13/S) T.B.A. 174 S.F.

(13/T) T.B.A. 350 S.F. DRIVEWAY

(10) T.B.A. 0.01 Ac. (25 S.F.)

(10/T) T.B.A. 0.10 Ac. DRIVE & GRADING

(12/T) T.B.A. 0.02 Ac. GRADING

(14/T) T.B.A. 0.04 Ac. DRIVE & GRADING

(14/T-1) DRIVE T.B.A. 0.01 Ac. (1503 S.F.)

(29/T) T.B.A. 0.14 Ac. SLOPING & DRIVES

(28/WD) T.B.A. 50 S.F.

(26/WD) T.B.A. 50 S.F.

(24/PR) DRIVE T.B.A. 0.02 Ac.

(20/PR) DRIVE T.B.A. 0.04 Ac.

(15) DRIVE NO TAKE

(17/WA) DRIVE

(19/WA) DRIVE

(16/WA) NO TAKE

(6) NO TAKE

(8) NO TAKE

(9) NO TAKE

(11) NO TAKE

(23) NO TAKE

(25) NO TAKE

(27) NO TAKE

(21) NO TAKE

(18/WA) DRIVE

(22/WA) DRIVE

(22A/WA) DRIVE

(24A/PR) DRIVE

(30/WA) DRIVE

(32/T)

(33/T)

(34/T)

PARCEL 14-T
1. S46°29'30"E ~ 102.00'
2. S43°30'30"W ~ 32.00'
3. N46°29'30"W ~ 40.00'
4. N43°30'30"E ~ 27.00'
5. N46°29'30"W ~ 62.00'
6. N43°30'30"E ~ 5.00'

PARCEL 14-T-1
1. S46°29'30"E ~ 30.00'
2. S43°30'30"W ~ 5.00'
3. N46°29'30"W ~ 30.00'
4. N43°30'30"E ~ 5.00'

NOTE. THE FOLLOWING LISTED PARCELS SHOWN ON THIS SHEET, HAVE GRANTED SEWER EASEMENTS TO TRUMBULL COUNTY. SAID EASEMENTS BEING A STRIP OF LAND 57 FEET IN WIDTH, MEASURED AT RIGHT ANGLES FROM THE ℄ OF R/W OF USR 422.

PCL. NO.	EASEMENT RECORDING DATA
10	VOL. 764, PG. 1023
12-T	VOL. 784, PG. 881
14-T	VOL. 753, PG. 504
16-WA	VOL. 746, PG. 630
18-WA	VOL. 751, PG. 543
20-WA	VOL. 746, PG. 348
22-WA	VOL. 743, PG. 39
24-WA	VOL. 746, PG. 351
26-WD	VOL. 745, PG. 474
28-WD	VOL. 748, PG. 884 & VOL. 745, PG. 910
30-T	VOL. 743, PG. 120
32-T	VOL. 743, PG. 129

*(26/SA) NOTE: OWNERS COMPENSATED FOR FLOODING AND PONDING OF WATER TO THEIR BUSINESS by "SPECIAL WAIVER OF DAMAGE," DATED 4-3-74

"U" FUNDS

SEE R/W SHEET 22 FOR BEARINGS & DISTANCES

ADDED PCL 26-SA - 5-3-74	
ADDED PR AREAS PCLS. 20-PR & 24-PR	12-12-72
DELETED PCLS. 26-WA, 28-WA, A-WA & B-WA	11-18-71
REVISED TAKE PCL 11-WD	6-17-71
ADDED EXISTING EASEMENTS FOR PARCELS TO THIS RIGHT OF THE ℄	6-18-71
REVISED BEGIN PROJECT & ACQUISITION FLAGS AND DELETED PARCELS 11-WD & 13-WD	7-28-71
DELETED PCLS 15-WA, 15-AWA, 20-WA & 20-A-WA	8-18-71
REVISED AREA PCL 14-T, ADDED PCL 28-WA & CHANGED PCL 30T TO 30-WA	8-23-71
CHANGED PARCEL 14-WA TO 14-T-1 & ADDED BRG & DIST. TO PCLS 14-T & 14-T-1	11-2-71
Completion Date	

SCALE IN FEET
50 25 0 50 100

BRUNING 44-560 10943

RIGHT OF WAY SHEET STA. 772+00 TO STA. 796+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	U-522(27)	

TRU.-422-14.67

15
22

TRUMBULL COUNTY
HOWLAND TOWNSHIP
T-4N R-3W
LOT 41

GARGHILL LITTLE FARMS PLAT
VOL. 9, PG. 46

29 T — TBA 0.14 Ac.
DRIVES & GRADING
THE HARRY WINTER CONSTRUCTION CO., AN OHIO CORPORATION AND ALBERT TUBER

29 WA — DRIVE
MAX E. PEARLSTEIN, JANYCE B. PEARLSTEIN, AARON HANK AND EMIL HANK

31 — THE PINEVIEW MEMORIAL PARK ASSOCIATION, A CORPORATION

Cemetery

BEGIN SHEET STA. 796+00

MATCH LINE STA. 808+00

Lot 41 / Lot 40 / Lot 28 / Lot 26 / Lot 25 / Lot 22 / Lot 21

Conc. Blk. Bldg.

Construction Limits

Exist. R/W

S.46°-29'-30"E. 803 ℄ U.S. 422

TO Deep Curb

Overhead Sign

Sign Not To Be Disturbed

See Detail "A"

See Detail "B"

Note: Sign not to be Disturbed

Drive F. J. Strube

Lot 41 / Lot 40 Sarah Parish

Existing Sewer Easement to Trumbull County Vol. 830, Pg. 1027

Existing Sewer Easement, 57 Feet in Width, To Trumbull County, Vol. 743, Pg. 129

Existing Sewer Easement, 57 Feet in Width, To Trumbull County, Vol. 731, Pg. 214

32 T — TBA 0.01 Ac. (25 S.F.)
32 T — TBA 0.03 Ac. DRIVES & GRADING
JOSEPH SARKIES

34 — TBA 0.01 Ac. (25 S.F.)
34 T — TBA 0.01 Ac. GRADING
JOHN IACOZILI AND MARY IACOZILI

36 T — TBA 0.01 Ac. (25 S.F.)
36 T — TBA 0.06 Ac. DRIVE & GRADING
36 WA — DRIVE
JOSEPH J. COMPARATO

38 WA — DRIVE
FERDINAND J. RENZ AND JULIA RENZ

40 WA — DRIVE

42 A WA — DRIVE

44 WA — DRIVE

44 A WA — DRIVE

MARK FIGETAKIS

ANGELO HAIDARG, JOHN BELLAS & GUS KOUPAS

15'± Bldg. Set Back

Sarkies Enterprises, Inc.

Dead Water Line

Phone Booth

Sign

Bldg

Scale in Feet: 50 25 0 50 100

31 T — DRIVE TBA 1,000 S.F.

31 A T — DRIVE TBA 708 S.F.

46 T — TBA 0.14 Ac. CESIDA FIORE ET AL

"DETAIL A" NOT TO SCALE

32 — TBA 0.01 Ac. (25 S.F.)
JOSEPH SARKIES

34 — TBA 0.01 Ac. (25 S.F.)
JOHN IACOZILI & MARY IACOZILI

"DETAIL B" NOT TO SCALE

36 — TBA 0.01 Ac. (25 S.F.)
JOSEPH J. COMPARATO

TRUMBULL COUNTY
HOWLAND TOWNSHIP
T-4N R-3W
LOT 41

EXIST. CURVE DATA
Δ = 27°37' Lt.
D = 3°00'
T = 469.41'
L = 920.56'
E = 56.84'
R = 1909.86'

GARGHILL LITTLE FARMS PLAT
VOL. 9, PG. 46

31 — THE PINEVIEW MEMORIAL PARK ASSOCIATION, A CORPORATION

Cemetery

MATCH LINE STA. 808+00

Lot 18 / Lot 17 / Lot 14 / Lot 13 / Lot 4 / Lot 3 / Lot 21

T.S. Sta. 810+51.40

P.C. Sta. 812+60.46

S.C. Sta. 813+51.40

John E. Yakovac and James R. Soda

Charles Sferra, Samuel Petkovich and Samuel D'Agati

J. J. D. Inc., an Ohio Corporation

Construction Limits

Exist. R/W

S.46°-29'-30"E.

℄ of Const. 2 / ℄ of R/W US 422

Sign Not To Be Damaged

Light Not To Be Disturbed

Bit. Conc. Parking Area. Note: Planter Box With Sign Not To Be Disturbed

Chain Link Fence

1½ Sty. Fr. El Rio Rest.

2½ Sty. Fr. Rest.

Service Station

Tele. Booth

Hse.

Guerino Abruzzi DBA Cafe 422, AKA Guerino Abruzzi, AKA Guerino Abruzzo

Sergasco, Inc., A Delaware Corporation

Mary Nicastro

Scale in Feet: 50 25 0 50 100

46 T — TBA 0.14 Ac. DRIVES & GRADING
CESIDA FIORE ET AL

52 T — TBA 0.11 Ac. DRIVE & GRADING
THE TOWN AND COUNTRY MOTEL COMPANY, A PARTNERSHIP

54 — NO TAKE

56 — NO TAKE

58 PR — T.B.A. 0.09 Ac.

33 WA — DRIVE

35 WA — DRIVE

37 — J. J. D. INC., AN OHIO CORPORATION

"U" FUNDS

CONSTRUCTION CURVE DATA
P.I. Sta. 817+29.87

Δ = 27°37'00" Lt.	D_s = 4°00'00"
Δ_c = 19°37'00"	D_c = 1°19'59"
D_c = 2°40'00"	L.T. = 200.04'
R_c = 2,148.59'	S.T. = 100.04'
L_c = 735.69'	L.C. = 299.93'
L_s = 300.00'	E_s = 65.73'
T_s = 678.47'	k = 149.97'
X_c = 299.84	p = 1.74'
Y_c = 6.98'	

Added PR Area Pcl. 58 PR	12-13-72
Deleted Drive At Sta. 819+57 Lt.	1-25-72
Added Drive At Sta. 819+75 Lt.	
Deleted Pcls. 56-T & 58-T	11-18-71
Added Parcel 40 A-WA - Deleted Pcl. 42	11-12-71
Deleted Drive At Sta. 803+43 - Rt. Added	
Drives At Sta. 802+75 & 803+61 - Rt.	
Deleted Pcl. 34 A-WA	10-5-71
Completion Date	

LINE SHEET	BY	DATE	CHECKED BY	DATE
SURVEYED	Salomon	3-25-70	K.W.	6-22-70
PLOTTED	Salomon	6-24-70		
INKED				
DESIGNED				
QUANTITIES				

Changed Pcl. 58 PR 11-30-72
Changed Drives Pcl. 58 11-30-72

BRUNING 44-560 10943

RIGHT OF WAY SHEET STA. 796+00 TO STA. 820+00

FED. RD DIVISION	STATE	PROJECT	
2	OHIO	U-522(27)	

TRU.-422-14.67

16/22

TRUMBULL COUNTY
HOWLAND TOWNSHIP
T-4N R-3W
LOT 41

J.J.D., INC. AN OHIO CORPORATION (37) LOT 3

(39) ESTATE OF CLARENCE W. OTTO aka C.W. OTTO & MARY C. OTTO (Decd.)

GARGHILL LITTLE FARMS PLAT Vol. 9, Pg. 46 LOT 2

HARRY S. KEFFALOS & MARY KEFFALOS (65A) (65A-WD)

EASEMENT TO REPROCO, INC. V. 792, P. 641

CITY OF NILES - CORP. LIMITS

REPROCO, INC., A DELAWARE CORPORATION (63) (63-WA) (63-AWA)

DURATION OF WORK LESS THAN 60 DAYS

CERNI MOTOR SALES, INC. (67-WD) (67-T)

JOHN CERNI & CHARLES CERNI

THOMAS G. HAIDARIS, GEORGE G. HAIDARIS & ANGELO HAIDARIS

NILES ASSOCIATES, AN OHIO LIMITED PARTNERSHIP (72-QC) (72-S) (72-T)

TREMARCO CORPORATION, A DELAWARE CORPORATION (62-T)

SUN OIL COMPANY OF PENNSYLVANIA, A PENNSYLVANIA CORPORATION (70-S) (70-T)

CITY OF NILES CORPORATION LIMITS

GUERINO ABRUZZI dba CAFE 422 aka GUERINO ABRUZZI aka GUERINO ABRUZZO (58-PR) T.B.A. 0.09 Ac.

FRANK FETCHET & CAROLYN J. FETCHET

PM GAS WASH CO.

BEGIN SHEET STA. 820+00

MATCH LINE STA. 832+00

EXIST. R/W

CONSTRUCTION LIMITS

EASEMENT NORTH RD.

EATON RD.

Bit. Conc. Parking Area

I-Sty. Tile Drive-in

I-Sty. Conc. Block Sunoco

I-Sty. Brick Bldg.

2-Sty. Fr. Hse.

Phillips 66 Station

Curb Cut

Sta. 821+71.96 Ahd. = Sta. 821+81.02 Bk.

P.T. Sta. 821+77.96 Ahd. = Sta. 821+81.02 Bk.

P.C. Sta. 824+69.09

Sta. 823+81.02 Bk. = Sta. 823+87.09 Ahd.

CURVE DATA
P.I. STA. 844+93.94
Δ = 20°-02'-30" RT
D = 0°-30'
R = 11459.16'
L = 4008.34
T = 2024.85
E = 177.46

TBA 0.054 AC. PRO. 0.012 AC. TOTAL 0.17 AC. (65-WD) (65-T)

TBA 0.094 AC. DRIVE & GRADING

TBA 2382 S.F. PRO. 5974 S.F. TOTAL 8356 S.F.

TBA 2,153 S.F. GRADING

TBA 4,495 S.F. DRIVE & GRADING

TBA 762 S.F.

TBA 694 S.F. PRO 21,197 S.F. CONT 27,891 S.F.

STA (B) = 825+77.12 - U.S.R. 422 10+00 ℄ R/W HEATON N. RD.

STA (A) = 825+99.73 - U.S.R. 422 10+00 ℄ R/W HEATON N. RD.

(60-WD) T.B.A. 511 Sq. Ft.

(60-T) T.B.A. 344 Sq. Ft. DRIVE & GRADING

(60A-WD) T.B.A. 751 Sq. Ft.

(60A-T) T.B.A. 751 Sq. Ft. GRADING

(62-WD) T.B.A. 4630 Sq. Ft.

(62-T) T.B.A. 3060 Sq. Ft. DRIVES & GRADING

(69-WD) T.B.A. 565 S.F.

(69-T) T.B.A. 1,447 S.F. DRIVES & GRADING

(71-T) T.B.A. 315 S.F. PRO. 1638 S.F. TOTAL 1953 S.F.

NOTE: SEE SH. 19 FOR BRGS. & DISTS.

NOTE: FOR DETAILS OF PARCELS 39, 63 & 65A SEE SHEET NO. 20

NOTE: FOR BEARINGS & DISTANCES OF PARCELS SEE SHEET NO. 22

SCALE IN FEET
50 25 0 50 100

EXISTING CURVE DATA
Δ = 27°37' Lt.
D = 3°00'
T = 469.41'
L = 920.56'
E = 56.84'
R = 1909.86'

CONSTRUCTION CURVE DATA
P.I. STA. 817+29.87
Δ = 27°37' Lt.
Δc = 19°37' Lt.
Dc = 2°40'
Rc = 2148.59'
Lc = 735.62'
Ls = 300'
Ts = 678.47'
Xc = 299.85'
Yc = 6.98'
θs = 4°00'
L.T. = 200.05'
S.T. = 100.05'
L.C. = 299.93'
Es = 65.73'
K = 149.98'
P = 1.74'

DELETED DRIVE AT STA. 821+41 Lt.; ADDED DRIVES AT 820+50 Lt & 821+41 Lt. 1-25-72

Salomon 3-26-70 K.W.
Salomon 6-29-70 6-23-70
Name Revised Pcl. 39 12-14-71

RAYMOND E. LONSWAY (73-WA) DRIVE

WILLIAM NILES CORP., AN OHIO CORPORATION

TRUMBULL COUNTY
HOWLAND TOWNSHIP
T-4N R-3W
LOT 41
CITY OF NILES

CURVE DATA
P.I. STA. 844+93.94
Δ = 20°-02'-30"
D = 0°-30'
R = 11459.16
L = 4008.34
T = 2024.85
E = 177.46

(75-S) T.B.A. 918 S.F.

(75-T) T.B.A. 2069 S.F. GRADING

THOMAS G. HAIDARIS, GEORGE G. HAIDARIS & ANGELO HAIDARIS (71-T) (73-WA)

EXISTING R/W

PROPOSED R/W

CURB CONSTRUCTION

Elms, Oaks

Paved Gutter

Bit. Conc. Parking Area

+09 & Dr. 40' Conc.

+40 & Dr. 11' Gravel

+41 & Dr. 14' Gravel

+20 & Dr.

Oak Grove Cemetery

EASEMENT TO CITY OF NILES, OHIO FOR SANITARY SEWER

(68-WD) TBA 15,820 S.F. PRO 31,806 S.F. CONT. 47,626 S.F.

30' EASEMENT TO BUCKEYE PIPE LINE COMPANY VOL. 683, PG. 57 & VOL. 507, PG. 554

THIRD WARREN CORP., AN OHIO CORPORATION

NOTE: ALL PARCELS ARE "U" FUNDS EXCEPT PARCELS 39-WD, 39-T, 60-WD, 60-T, 60A-WD, 60A-T, 62-WD, 62-T, 63-WD, 63-T, 63-WA, 65-WD, 65-T, 65AWD, 65D-T, 67-WD, 67-T, 69-WD, 69-T, 70-S, 70-T, 72-WD, 72-S & 72-T WHICH ARE "T" FUNDS

(77) T.B.A. 504 S.F.

(77-T) T.B.A. 4807 S.F. DRIVES & GRADING

THE SECOND NATIONAL BANK OF WARREN, TRUSTEE

PAUL G. CAPITO & JULIA G. CAPITO

(79) TBA 1,445 S.F. PRO 5,540 S.F.

(79-T) TBA 502 S.F. DRIVES & GRADING

HAROLD E. HAUGHTON & LILLIAN R. HAUGHTON

ALTA CHEONCHEO aka ALTO CHEONCHEO

(76-T) TBA 1,665 S.F. DRIVE & GRADING

(74-T) TBA 2,153 S.F. GRADING

LOT 1 LOT 2 LOT 3 LOT 4

VALLEY HOME GARDEN ACRES VOL. 11, PG. 22

MATCH LINE STA. 832+00

END SHEET STA. 844+00

DETAIL "A" NO SCALE

SCALE IN FEET
50 25 0 50 100

PARCEL 70 NAME REVISION 3-29-72

DELETED PCLS. 58-T & 67-T	11-19-71
ADDED EASEMENT TO BUCKEYE PIPE LINE CO. PCLS. 75-T & 68	11-11-71
ADDED BR. & DIST. & REVISED T.B.A. PCL. 77-T	11-1-71
CONVERTED PCL. 63-T TO 63AWA per Guzak 10.8.	10-22-71
DELETED PCL. 67-T & ADDED PCL. 67WA	10-8-71
REVISED FUNDING	9-19-71
ADDED PARCEL 73WA	9-7-71
ADDED PCL. 63-WA	6-17-71
Completion Date	

Rev. 72WD to 72 QC R.F. 3-14-73
Added PR AREA PCL 58 PR 12-13-72
Changed PR/58PR to 58 PR 11-30-72
Changed Drives PCL 58 11-30-72
Added Gas Tanks PCL 62-T 2-15-72
Added Sanitary Sewer Easement PCL 68 1-3-72

Rev Name PCL 75-S 5-9-73

BRUNING 44-560 10945

RIGHT OF WAY SHEET STA. 820+00 TO STA. 844+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

TRU.- 422 - 14.67

17
22

TRUMBULL COUNTY
HOWLAND TOWNSHIP
T-4N R-3W
LOT 41
CITY OF NILES

CURVE DATA
P.I. STA 844+93.94
Δ = 20°-02'-30"
D = 0°-30'
R = 11459.16'
L = 4008.34'
T = 2024.85'
E = 177.46'

BEGIN SHEET STA. 844+00

MARY SCARNECCHIA ET AL
FOR DETAILS OF PARCELS
81, T+A-T SEE DETAIL "A"

S 74°-06'30"E Δ S 54°-04'-E

60' EASEMENT FOR INGRESS & EGRESS V. 842, P. 806

TO East Wood Mall

83 T — TBA 1.937 S.F. DRIVE

83 — EAST WOOD MALL
PARK SOUTH CORPORATION

846+40 50'LT.
846+95 90'LT.
846+95 55'LT.

Car Wash
844+61.77 50.00 LT.
844+68.95 40.00 LT.
Steel Post
Steel Post
SEE DETAIL "A"

79 — 81 T — 81 — 81 A-T

EXISTING R/W

845 846 847 848 849 850 851 852 853 854 855

℄ U.S. 422

M.H. C. 12"
Bit. Conc.
Traffic Signal Pole
Sign Marker
Stone Block Bldg. Arby's
78 No Take
Walk
2-St. Br. Bldg.
76 T
Alta Cheoncheo aka Alto Cheoncheo
Lot 4
Rose M. DeChristofaro & Felicia E. DiChristofaro
Lot 5
S 8°-56'-30" W 155.00'
Suspend Work Sta. 846+98

EXISTING R/W — EXISTING R/W — Valley Blvd.

LOT 41 — LOT 46 — LOT 42

MATCH LINE STA. 856+00

81 T.B.A. 613 S.F.
81 T — T.B.A. 402 S.F. DRIVE & GRADING
81 AT — T.B.A. 520 S.F. DRIVE & GRADING

DETAIL "A" NOT TO SCALE

845+60 50'LT.
845+60 43'LT.
844+61.77 50'LT.
845+20 50'LT.
845+37 43'LT.
845+43 43'LT.
846+38.34 50'LT.
846+38.78 48.54 LT.
846+39.76 40'LT.
846+41.38 40.00 LT.
I.P. Fnd. & Used
846+46.07 24.63 LT.
846+21.14 25.45 LT.
846+30 43'LT.
845+37 43'LT.
845+43 43'LT.
+20 43'LT.
+63.79 43'LT.
846+65 40'LT.
R/W
EXIST. R/W
℄ OF SURVEY
847

SCALE IN FEET
50 25 0 50 100

TRUMBULL COUNTY
HOWLAND TOWNSHIP
T-4N R-3W
LOT 42
CITY OF NILES

CURVE DATA
P.I. STA 844+93.94
Δ = 20°-02'-30"
D = 0°-30'
R = 11459.16'
L = 4008.34'
T = 2024.85'
E = 177.46'

MATCH LINE STA. 856+00

LOT 42 — LOT 45 — LOT 46

Mines Rd. — EXISTING R/W — EXISTING R/W

℄ U.S. 422

857 858 859 860 861 862 863 864 865 866 867

8" San Sewer — M.H. — M.H.

EXISTING R/W

℄ SURVEY U.S. 422
EXISTING R/W
R/W
864+62.50 40'Rt.
864+62.50 43'Rt.
864+77.50 40'Rt.
864+77.50 43'Rt.
82
DETAIL "C" NO SCALE

TRUMBULL COUNTY
HOWLAND TOWNSHIP
T-4-N, R-3-W
LOT 45
CITY OF NILES

MATCH LINE "A-A"

35' 35'
EXISTING R/W
Mines Rd. RELOCATED
EXIST. 24" CONC. PIPE BY OTHERS
EXIST. R/W
Mines Rd. ACCESS TO East Wood Mall
863+89.14 90'LT.
863+89.10 80'LT.
I.P. Fnd.
I.P. F&U
863+88.76 0.54'LT.
864+20.26 55.14 LT.
864+29.86 50'LT.
864+39.93 50'LT.
85 S
85 T
85 WD
M.H.
EXIST. 36"?
EXISTING 36"?
SEE DETAIL "B"
SEE DETAIL "C"
R/W
EXISTING R/W
C.B.
S.G.
OVERHEAD SIGN
S 54°-04'-E.
R=11459.16'
EXISTING R/W
Q Hyd.
Sign
82 T.B.A. 15 S.F.
82 T
TBA 8,871 S.F. DRIVES & GRADING
EXIST. R/W
GYPSY LANE
30' 30'
EXIST. R/W
80
ALBEE HOMES, INC. No Take
864+40 40.00 Rt.
864+77.43 40.00 Rt.
864+77.43 50 Rt.
P.T. 864+77.43
ROMAR, INC.
HOWLAND ENTERPRISES, INC., fka. THE LAVERNE DRIVE-IN-THEATER CORPORATION, AN OHIO CORPORATION
END SHEET STA. 868+00

85 WD TBA 7,240 S.F.
PRO 52,975 S.F.
CONT 60,215 S.F.
85 T TBA 8069 S.F. DRIVES & GRADING
85 S TBA 2,189 S.F.
NOTE: 505 S.F. OF 85-T OVERLAPS 85-S

863+99.12 264.42 LT.
864+08.37 268.85 LT.
MINES RD.
EXIST. R/W
EXIST. 60"?
EXIST. JUNCTION CHAMBER
EXIST. 12"
EXIST. 24"
EXIST. 36"?
MATCH LINE "A-A"

864+70 55 Lt.
85 T
864+70 50 Lt.
R/W
864+80 50 Lt.
85 WD
R/W
R/W
EXISTING R/W
℄ OF SURVEY US 422
S 54°04'00"E
867
DETAIL "B" NOT TO SCALE

SEE R/W SHEET 22 FOR BEARINGS & DISTANCES

"U" FUNDS

SCALE IN FEET
50 25 0 50 100

	BY	DATE
SURVEYED		
PLOTTED	Solomon	3-19-70
INKED	Solomon	6-23-70
DESIGNED		
QUANTITIES		

LINE SHEET — CHECKED BY: KW — DATE: 6-23-70

Added Pcl. 82 Revised Area Pcl. 82-T &	10-18-71
Added Overhead Sign At Sta. 864+70	
Revised Pcl. 81 & Added 81-T & A-T	11-16-71
Completion Date	

BRUNING 44-560 10943

RIGHT OF WAY SHEET STA. 844+00 TO STA. 868+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

TRU. 422 14.67

18
22

TRUMBULL COUNTY
HOWLAND TOWNSHIP
T-4N R-3W
LOT 45
CITY OF NILES

ROMAR, INC.

(85 WD) TBA 7,240 S.F.
PRO 52,975 S.F.
CONT. 60,215 S.F.

(85 T) TBA 8069 S.F.
DRIVES & GRADING

HOWLAND HOMES SUBDIVISION, PLAT No 3, VOL. 11, PG. 38

CARMEN DELLATRECCHIA
LOT 186
1 Sty Brick Motel
NO TAKE

LOT 187
JAMES BERNARD

TRUMBULL NEW THEATRE, INC.
LOT 188
LOT 189
LOT 190
JOSEPH A. GILMOUR

(91 WD) TBA 302 S.F.
PRO. 14 S.F.
CONT 316 S.F.

(91 T) TBA 2,307 S.F.
DRIVE & GRADING
1-Sty Brick T.N.T. Playhouse

NOTE: SEE DETAIL FOR P.CL. 91-WD

(89 T) TBA 1,307.5 F.
DRIVE & GRADING
1-Sty Conc. Bldg.

(87) NO TAKE
Pond
Evgrs
3" Pine
Maple
Elm

SEE DETAIL "B" FOR PCL. 93-WD

(93 WD) TBA 9 SF.
PRO 61 S.F.
CONT 70 S.F.

(93 T) TBA 675 S.F.
GRADING

NOTE: DRIVE TO THE LEFT OF ℄ STA. 880+42 TO BE ABANDONED

BEGIN SHEET STA. 868+00

MATCH SHEET STA. 880+00

(85 T) SEE DETAIL "C"

Bituminous Concrete Curb

EXIST. 36" ℄ M.H.

EXIST. 8" ℄ SAN.

EXIST. 12" ℄ STORM

R/W

EXISTING R/W

Bit. Conc. Curb

EXIST. R/W

Overhead Sign

℄ U.S. 422 S.54°-04'-E.

℄ OF CONSTRUCTION

℄ OF R/W

(82 T) T.B.A. 8,871 S.F.
DRIVES & GRADING

NOTE: PLANTER NOT TO BE DAMAGED

PLANTER

EXIST. DR.

(84 WA) (84 T) DRIVE

LINCOLN HOMES COMPANY, A PENNSYLVANIA CORPORATION
LOT 21 CITY LOT 7387
LOT 22 CITY LOT 7388

1½ Sty Fr. Hse.
1½ Sty Brick House
1½ Sty wood & Brick House
Brick Bldg. Car Wash
Gas meter
Sign

(86 T) TBA 1,252 S.F.
DRIVES
NOTE: LIGHTS & TREE IN "T" NOT TO BE DISTURBED
CHARLES P. LAMONICA & THOMAS J. MATASH
LOT 23 CITY LOT 7389

(88 T) T.B.A. 870 S.F.
DRIVE
NOTE: SIGNS IN "T" NOT TO BE DISTURBED

(90) NO TAKE
RICHARD J. SKIFFEY & ROSE RAE SKIFFEY
LOT 25 CITYLOT 7391

FRED C. MORRIS & CLYDE H. FISHER
LOT 26 City Lot 7392

Swim Pool

HOWLAND INTERPRISES, INC. f.k.a.
THE LAVERNE DRIVE-IN- THEATER CORPORATION,
AN OHIO CORPORATION

TRUMBULL INVESTMENT CO., INC., AN OHIO CORPORATION
LOT 24 CITY LOT 7390

(A/W Owen) P.C. 877+19.50

P.C. 876+76.56

P.C. 879+61.46

P.C. 879+47.10

P.C. 879+27.63

P.C. 879+07.70

P.C. 878+87.77

P.C. 878+68.27

P.C. 878+48.27

P.C. 878+27.63

P.C. 878+07.70

P.C. 877+87.77

P.C. 877+68.27

P.C. 877+48.27

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P.C. 877+07.70

P.C. 876+87.77

P.C. 876+68.27

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P.C. 876+07.70

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P.C. 874+87.77

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P.C. 874+07.70

P.C. 873+87.77

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P.C. 870+07.70

P.C. 869+87.77

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P.C. 850+87.77

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P.C. 849+87.77

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P.C. 841+87.77

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P.C. 840+87.77

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P.C. 821+07.70

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P.C. 812+27.63

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P.C. 811+87.77

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P.C. 809+27.63

P.C. 809+07.70

P.C. 808+87.77

P.C. 808+68.27

P.C. 808+48.27

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P.C. 807+87.77

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P.C. 807+07.70

P.C. 806+87.77

P.C. 806+68.27

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P.C. 806+27.63

P.C. 806+07.70

P.C. 805+87.77

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P.C. 805+07.70

P.C. 804+87.77

P.C. 804+68.27

P.C. 804+48.27

P.C. 804+27.63

P.C. 804+07.70

P.C. 803+87.77

P.C. 803+68.27

P.C. 803+48.27

P.C. 803+27.63

P.C. 803+07.70

P.C. 802+87.77

P.C. 802+68.27

P.C. 802+48.27

P.C. 802+27.63

P.C. 802+07.70

P.C. 801+87.77

P.C. 801+68.27

P.C. 801+48.27

P.C. 801+27.63

P.C. 801+07.70

P.C. 800+87.77

P.C. 800+68.27

P.C. 800+48.27

P.C. 800+27.63

P.C. 800+07.70

P.C. 799+87.77

P.C. 799+68.27

P.C. 799+48.27

P.C. 799+27.63

P.C. 799+07.70

P.C. 798+87.77

P.C. 798+68.27

P.C. 798+48.27

P.C. 798+27.63

P.C. 798+07.70

P.C. 797+87.77

P.C. 797+68.27

P.C. 797+48.27

P.C. 797+27.63

P.C. 797+07.70

P.C. 796+87.77

P.C. 796+68.27

P.C. 796+48.27

P.C. 796+27.63

P.C. 796+07.70

P.C. 795+87.77

P.C. 795+68.27

P.C. 795+48.27

P.C. 795+27.63

P.C. 795+07.70

P.C. 794+87.77

P.C. 794+68.27

P.C. 794+48.27

P.C. 794+27.63

P.C. 794+07.70

P.C. 793+87.77

P.C. 793+68.27

P.C. 793+48.27

P.C. 793+27.63

P.C. 793+07.70

P.C. 792+87.77

P.C. 792+68.27

P.C. 792+48.27

P.C. 792+27.63

P.C. 792+07.70

P.C. 791+87.77

P.C. 791+68.27

P.C. 791+48.27

P.C. 791+27.63

P.C. 791+07.70

P.C. 790+87.77

P.C. 790+68.27

P.C. 790+48.27

P.C. 790+27.63

P.C. 790+07.70

P.C. 789+87.77

P.C. 789+68.27

P.C. 789+48.27

P.C. 789+27.63

P.C. 789+07.70

P.C. 788+87.77

P.C. 788+68.27

P.C. 788+48.27

P.C. 788+27.63

P.C. 788+07.70

P.C. 787+87.77

P.C. 787+68.27

P.C. 787+48.27

P.C. 787+27.63

P.C. 787+07.70

P.C. 786+87.77

P.C. 786+68.27

P.C. 786+48.27

P.C. 786+27.63

P.C. 786+07.70

P.C. 785+87.77

P.C. 785+68.27

P.C. 785+48.27

P.C. 785+27.63

P.C. 785+07.70

P.C. 784+87.77

P.C. 784+68.27

P.C. 784+48.27

P.C. 784+27.63

P.C. 784+07.70

P.C. 783+87.77

P.C. 783+68.27

P.C. 783+48.27

P.C. 783+27.63

P.C. 783+07.70

P.C. 782+87.77

P.C. 782+68.27

P.C. 782+48.27

P.C. 782+27.63

P.C. 782+07.70

P.C. 781+87.77

P.C. 781+68.27

P.C. 781+48.27

P.C. 781+27.63

P.C. 781+07.70

P.C. 780+87.77

P.C. 780+68.27

P.C. 780+48.27

P.C. 780+27.63

P.C. 780+07.70

P.C. 779+87.77

P.C. 779+68.27

P.C. 779+48.27

P.C. 779+27.63

P.C. 779+07.70

P.C. 778+87.77

P.C. 778+68.27

P.C. 778+48.27

P.C. 778+27.63

P.C. 778+07.70

P.C. 777+87.77

P.C. 777+68.27

P.C. 777+48.27

P.C. 777+27.63

P.C. 777+07.70

P.C. 776+87.77

P.C. 776+68.27

P.C. 776+48.27

P.C. 776+27.63

P.C. 776+07.70

P.C. 775+87.77

P.C. 775+68.27

P.C. 775+48.27

P.C. 775+27.63

P.C. 775+07.70

P.C. 774+87.77

P.C. 774+68.27

P.C. 774+48.27

P.C. 774+27.63

P.C. 774+07.70

P.C. 773+87.77

P.C. 773+68.27

P.C. 773+48.27

P.C. 773+27.63

P.C. 773+07.70

P.C. 772+87.77

P.C. 772+68.27

P.C. 772+48.27

P.C. 772+27.63

P.C. 772+07.70

P.C. 771+87.77

P.C. 771+68.27

P.C. 771+48.27

P.C. 771+27.63

P.C. 771+07.70

P.C. 770+87.77

P.C. 770+68.27

P.C. 770+48.27

P.C. 770+27.63

P.C. 770+07.70

P.C. 769+87.77

P.C. 769+68.27

P.C. 769+48.27

P.C. 769+27.63

P.C. 769+07.70

P.C. 768+87.77

P.C. 768+68.27

P.C. 768+48.27

P.C. 768+27.63

P.C. 768+07.70

P.C. 767+87.77

P.C. 767+68.27

P.C. 767+48.27

P.C. 767+27.63

P.C. 767+07.70

P.C. 766+87.77

P.C. 766+68.27

P.C. 766+48.27

P.C. 766+27.63

P.C. 766+07.70

P.C. 765+87.77

P.C. 765+68.27

P.C. 765+48.27

P.C. 765+27.63

P.C. 765+07.70

P.C. 764+87.77

P.C. 764+68.27

P.C. 764+48.27

P.C. 764+27.63

P.C. 764+07.70

P.C. 763+87.77

P.C. 763+68.27

P.C. 763+48.27

P.C. 763+27.63

P.C. 763+07.70

P.C. 762+87.77

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P.C. 761+07.70

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P.C. 760+07.70

P.C. 759+87.77

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P.C. 755+07.70

P.C. 754+87.77

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P.C. 754+27.63

P.C. 754+07.70

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P.C. 753+27.63

P.C. 753+07.70

P.C. 752+87.77

P.C. 752+68.27

P.C. 752+48.27

P.C. 752+27.63

P.C. 752+07.70

P.C. 751+87.77

P.C. 751+68.27

P.C. 751+48.27

P.C. 751+27.63

P.C. 751+07.70

P.C. 750+87.77

P.C. 750+68.27

P.C. 750+48.27

P.C. 750+27.63

P.C. 750+07.70

P.C. 749+87.77

P.C. 749+68.27

P.C. 749+48.27

P.C. 749+27.63

P.C. 749+07.70

P.C. 748+87.77

P.C. 748+68.27

P.C. 748+48.27

P.C. 748+27.63

P.C. 748+07.70

P.C. 747+87.77

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P.C. 747+07.70

P.C. 746+87.77

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P.C. 746+48.27

P.C. 746+27.63

P.C. 746+07.70

P.C. 745+87.77

P.C. 745+68.27

P.C. 745+48.27

P.C. 745+27.63

P.C. 745+07.70

P.C. 744+87.77

P.C. 744+68.27

P.C. 744+48.27

P.C. 744+27.63

P.C. 744+07.70

P.C. 743+87.77

P.C. 743+68.27

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P.C. 743+27.63

P.C. 743+07.70

P.C. 742+87.77

P.C. 742+68.27

P.C. 742+48.27

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P.C. 742+07.70

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P.C. 740+48.27

P.C. 740+27.63

P.C. 740+07.70

P.C. 739+87.77

P.C. 739+68.27

P.C. 739+48.27

P.C. 739+27.63

P.C. 739+07.70

P.C. 738+87.77

P.C. 738+68.27

P.C. 738+48.27

P.C. 738+27.63

P.C. 738+07.70

P.C. 737+87.77

P.C. 737+68.27

P.C. 737+48.27

P.C. 737+27.63

P.C. 737+07.70

P.C. 736+87.77

P.C. 736+68.27

P.C. 736+48.27

P.C. 736+27.63

P.C. 736+07.70

P.C. 735+87.77

P.C. 735+68.27

P.C. 735+48.27

P.C. 735+27.63

P.C. 735+07.70

P.C. 734+87.77

P.C. 734+68.27

P.C. 734+48.27

P.C. 734+27.63

P.C. 734+07.70

P.C. 733+87.77

P.C. 733+68.27

P.C. 733+48.27

P.C. 733+27.63

P.C. 733+07.70

P.C. 732+87.77

P.C. 732+68.27

P.C. 732+48.27

P.C. 732+27.63

P.C. 732+07.70

P.C. 731+87.77

P.C. 731+68.27

P.C. 731+48.27

P.C. 731+27.63

P.C. 731+07.70

P.C. 730+87.77

P.C. 730+68.27

P.C. 730+48.27

P.C. 730+27.63

P.C. 730+07.70

P.C. 729+87.77

P.C. 729+68.27

P.C. 729+48.27

P.C. 729+27.63

P.C. 729+07.70

P.C. 728+87.77

P.C. 728+68.27

P.C. 728+48.27

P.C. 728+27.63

P.C. 728+07.70

P.C. 727+87.77

P.C. 727+68.27

P.C. 727+48.27

P.C. 727+27.63

P.C. 727+07.70

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P.C. 724+48.27

P.C. 724+27.63

P.C. 724+07.70

P.C. 723+87.77

P.C. 723+68.27

P.C. 723+48.27

P.C. 723+27.63

P.C. 723+07.70

P.C. 722+87.77

P.C. 722+68.27

P.C. 722+48.27

P.C. 722+27.63

P.C. 722+07.70

P.C. 721+87.77

P.C. 721+68.27

P.C. 721+48.27

P.C. 721+27.63

P.C. 721+07.70

P.C. 720+87.77

P.C. 720+68.27

P.C. 720+48.27

P.C. 720+27.63

P.C. 720+07.70

P.C. 719+87.77

P.C. 719+68.27

P.C. 719+48.27

P.C. 719+27.63

P.C. 719+07.70

P.C. 718+87.77

P.C. 718+68.27

P.C. 718+48.27

P.C. 718+27.63

P.C. 718+07.70

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P.C. 716+07.70

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P.C. 714+87.77

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P.C. 714+07.70

P.C. 713+87.77

P.C. 713+68.27

P.C. 713+48.27

P.C. 713+27.63

P.C. 713+07.70

P.C. 712+87.77

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P.C. 712+48.27

P.C. 712+27.63

P.C. 712+07.70

P.C. 711+87.77

P.C. 711+68.27

P.C. 711+48.27

P.C. 711+27.63

P.C. 711+07.70

P.C. 710+87.77

P.C. 710+68.27

P.C. 710+48.27

P.C. 710+27.63

P.C. 710+07.70

P.C. 709+87.77

P.C. 709+68.27

P.C. 709+48.27

P.C. 709+27.63

P.C. 709+07.70

P.C. 708+87.77

P.C. 708+68.27

P.C. 708+48.27

P.C. 708+27.63

P.C. 708+07.70

P.C. 707+87.77

P.C. 707+68.27

P.C. 707+48.27

P.C. 707+27.63

P.C. 707+07.70

P.C. 706+87.77

P.C. 706+68.27

P.C. 706+48.27

P.C. 706+27.63

P.C. 706+07.70

P.C. 705+87.77

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P.C. 705+48.27

P.C. 705+27.63

P.C. 705+07.70

P.C. 704+87.77

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P.C. 704+48.27

P.C. 704+27.63

P.C. 704+07.70

P.C. 703+87.77

P.C. 703+68.27

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P.C. 703+27.63

P.C. 703+07.70

P.C. 702+87.77

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P.C. 702+48.27

P.C. 702+27.63

P.C. 702+07.70

P.C. 701+87.77

P.C. 701+68.27

P.C. 701+48.27

P.C. 701+27.63

P.C. 701+07.70

P.C. 700+87.77

P.C. 700+68.27

P.C. 700+48.27

P.C. 700+27.63

P.C. 700+07.70

P.C. 699+87.77

P.C. 699+68.27

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P.C. 699+07.70

P.C. 698+87.77

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P.C. 660+07.70

P.C. 659+87.77

P.C. 659+68.27

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P.C. 658+87.77

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P.C. 656+87.77

P.C. 656+68.27

P.C. 656+48.27

P.C. 656+27.63

P.C. 656+07.70

P.C. 655+87.77

P.C. 655+68.27

P.C. 655+48.27

P.C. 655+27.63

P.C. 655+07.70

P.C. 654+87.77

P.C. 654+68.27

P.C. 654+48.27

P.C. 654+27.63

P.C. 654+07.70

P.C. 653+87.77

P.C. 653+68.27

P.C. 653+48.27

P.C. 653+27.63

P.C. 653+07.70

P.C. 652+87.77

P.C. 652+68.27

P.C. 652+48.27

P.C. 652+27.63

P.C. 652+07.70

P.C. 651+87.77

P.C. 651+68.27

P.C. 651+48.27

P.C. 651+27.63

P.C. 651+07.70

P.C. 650+87.77

P.C. 650+68.27

P.C. 650+48.27

P.C. 650+27.63

P.C. 650+07.70

P.C. 649+87.77

P.C. 649+68.27

P.C. 649+48.27

P.C. 649+27.63

P.C. 649+07.70

P.C. 648+87.77

P.C. 648+68.27

P.C. 648+48.27

P.C. 648+27.63

P.C. 648+07.70

P.C. 647+87.77

P.C. 647+68.27

P.C. 647+48.27

P.C. 647+27.63

P.C. 647+07.70

P.C. 646+87.77

P.C. 646+68.27

P.C. 646+48.27

P.C. 646+27.63

P.C. 646+07.70

P.C. 645+87.77

P.C. 645+68.27

P.C. 645+48.27

P.C. 645+27.63

P.C. 645+07.70

P.C. 644+87.77

P.C. 644+68.27

P.C. 644+48.27

P.C. 644+27.63

P.C. 644+07.70

P.C. 643+87.77

P.C. 643+68.27

P.C. 643+48.27

P.C. 643+27.63

P.C. 643+07.70

P.C. 642+87.77

P.C. 642+68.27

P.C. 642+48.27

P.C. 642+27.63

P.C. 642+07.70

P.C. 641+87.77

P.C. 641+68.27

P.C. 641+48.27

P.C. 641+27.63

P.C. 641+07.70

P.C. 640+87.77

P.C. 640+68.27

P.C. 640+48.27

P.C. 640+27.63

P.C. 640+07.70

P.C. 639+87.77

P.C. 639+68.27

P.C. 639+48.27

P.C. 639+27.63

P.C. 639+07.70

P.C. 638+87.77

P.C. 638+68.27

P.C. 638+48.27

P.C. 638+27.63

P.C. 638+07.70

P.C. 637+87.77

P.C. 637+68.27

P.C. 637+48.27

P.C. 637+27.63

P.C. 637+07.70

P.C. 636+87.77

P.C. 636+68.27

P.C. 636+48.27

P.C. 636+27.63

P.C. 636+07.70

P.C. 635+87.77

P.C. 635+68.27

P.C. 635+48.27

P.C. 635+27.63

P.C. 635+07.70

P.C. 634+87.77

P.C. 634+68.27

P.C. 634+48.27

P.C. 634+27.63

P.C. 634+07.70

P.C. 633+87.77

P.C. 633+68.27

P.C. 633+48.27

P.C. 633+27.63

P.C. 633+07.70

P.C. 632+87.77

P.C. 632+68.27

P.C. 632+48.27

P.C. 632+27.63

P.C. 632+07.70

P.C. 631+87.77

P.C. 631+68.27

P.C. 631+48.27

P.C. 631+27.63

P.C. 631+07.70

P.C. 630+87.77

P.C. 630+68.27

P.C. 630+48.27

P.C. 630+27.63

P.C. 630+07.70

P.C. 629+87.77

P.C. 629+68.27

P.C. 629+48.27

P.C. 629+27.63

P.C. 629+07.70

P.C. 628+87.77

P.C. 628+68.27

P.C. 628+48.27

P.C. 628+27.63

P.C. 628+07.70

P.C. 627+87.77

P.C. 627+68.27

P.C. 627+48.27

P.C. 627+27.63

P.C. 627+07.70

P.C. 626+87.77

P.C. 626+68.27

P.C. 626+48.27

P.C. 626+27.63

P.C. 626+07.70

P.C. 625+87.77

P.C. 625+68.27

P.C. 625+48.27

P.C. 625+27.63

P.C. 625+07.70

P.C. 624+87.77

P.C. 624+68.27

P.C. 624+48.27

P.C. 624+27.63

P.C. 624+07.70

P.C. 623+87.77

P.C. 623+68.27

P.C. 623+48.27

P.C. 623+27.63

P.C. 623+07.70

P.C. 622+87.77

P.C. 622+68.27

P.C. 622+48.27

P.C. 622+27.63

P.C. 622+07.70

P.C. 621+87.77

P.C. 621+68.27

P.C. 621+48.27

P.C. 621+27.63

P.C. 621+07.70

P.C. 620+87.77

P.C. 620+68.27

P.C. 620+48.27

P.C. 620+27.63

P.C. 620+07.70

P.C. 619+87.77

P.C. 619+68.27

P.C. 619+48.27

P.C. 619+27.63

P.C. 619+07.70

P.C. 618+87.77

P.C. 618+68.27

P.C. 618+48.27

P.C. 618+27.63

P.C. 618+07.70

P.C. 617+87.77

P.C. 617+68.27

P.C. 617+48.27

P.C. 617+27.63

P.C. 617+07.70

P.C. 616+87.77

P.C. 616+68.27

P.C. 616+48.27

P.C. 616+27.63

P.C. 616+07.70

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

TRU. 422 1467

19/22

BEGIN SHEET STA. 892+00

MATCH LINE STA. 904+00

DEF. STA. 894+87.92 Δ=0°-21'-00" RT.

THE COMPARATO REALTY COMPANY

(117 WD) TBA 3,340 S.F. PRO 11,160 S.F. CONT 20,500 S.F.

(117 T) TBA 763 S.F. WORKING SPACE

(117 A-T) TBA 1,603 S.F. WORKING SPACE & DRIVE

FRANKLYN REALTY COMPANY, AN OHIO CORPORATION

(119 WD) TBA 1,153 S.F. PRO 6,001 S.F. CONT. 7,154 S.F.

(119 T) TBA 917 S.F. DRIVES

Z.D. WEST, INC. A DELAWARE CORPORATION

(123 WD) TBA 649 S.F. CONT 4,649 S.F.

TRUMBULL COUNTY
HOWLAND TOWNSHIP
LOT 45
T-4N R-3W

PAUL A. GUARNIERI & BERNARD W. ROSENBERG

(125) T.B.A. 426 S.F.

(125 WA) DRIVE

(125 WA) DRIVES

(62 T) SEE SHEET NO. 16

(13) S 74°06'30" E ~ 49.87'
(12) R = 11,414.16', ARC L = 39.77'
CHD. L. = 39.77' CHD. BRG. = S 74°00'31" E
(11) R = 30.00', ARC L = 49.32'
CHD. L. = 43.95' CHD. BRG. = S 26°48'30" E
(10) S 20°17'31" W ~ 28.21'
(9) N 67°35'30" W ~ 9.15'
(8) S 20°17'31" W ~ 6.00'
(7) S 67°35'30" E ~ 9.15'
(6) S 20°17'31" W ~ 17.01'
(5) S 17°40'48" W ~ 60.66'
(15) N 74°05'30" E ~ 25.16'
(16) N 22°24'30" E ~ 113.83'
(17) N 08°30'54" W ~ 28.45'
(18) N 74°00'31" E ~ 39.75'
(19) N 74°06'30" W ~ 50.44'
(20) N 22°23'30" E ~ 5.03'

SCALE IN FEET
50 25 0 50 100

NOTE: FOR DETAILS OF PARCELS 96A-WD, 96A-WA, 103B-WA, 106-WD, 106-T, 108-WD, 108-T, 115-WD & 115-T, SEE R/W SHEET 21.

C.R. PROPERTIES, INC., AN OHIO CORPORATION

(96 WD) TBA 3,193 S.F.

(96 T) TBA 11,167 S.F. DRIVE & WORKING SPACE

THE STANDARD OIL COMPANY, AN OHIO CORPORATION

LOT 2

LOT 3

LOT 4

(106 T) RICHARD S. HAWKES

(106 WD) RICHARD S. HAWKES

(110) NO TAKE
THE I.E.R. COMPANY, AN OHIO CORPORATION

(112) NO TAKE
THE NILES-WARREN MOTOR LODGE, INC., AN OHIO CORPORATION

PAYLESS STATIONS, INC., A KENTUCKY CORPORATION

(114 S)

RICHARD S. HAWKES PLAT No 1, VOL. 14, PG. 100

TRUMBULL COUNTY
HOWLAND TOWNSHIP
T-4N R-3W
LOT

TRUMBULL COUNTY
WEATHERSFIELD TOWNSHIP
T-3N R-3W
LOT

LINCOLN REALTY COMPANY PLAT No 1
VOL. 12 PG. 32

ANDREW P. MALLIN & MARGARET W. MALLIN

RICHARD E. ALBERINI a.k.a. RICHARD ALBERINI & GILDA R. ALBERINI a.k.a. GILDA ROSE ALBERINI

HOLIDAY INN WARREN-NILES OHIO, INC., AN OHIO CORPORATION

CURVE DATA
P.I. STA. 906+57.05
Δ = 0°-20'-00" LT.
D = 0°-10'
R = 34377.48
T = 100.00'
L = 200.00'
E = 0.15

P.C. STA. 905+57.05

P.T. STA. 907+57.05

(127 WA) DRIVE & GRADING
Note: Light & Flag Poles & Conc. Curb Not To Be Disturbed

(129 WA)

(129 T) T.B.A. 177 S.F. DRIVE & GRADING

(131) NO TAKE

(133 T)

(114 WA)

(114 S) T.B.A. 863 S.F.

(116 S) T.B.A. 147 S.F.

(116 WA) DRIVES

(118 WA) DRIVE

(122 WA) DRIVE

GEORGE W. GALES & EDITH M. GALES

JULIA A. HOWE

EUGENE B. KEHN

M & M MOTELS, INC., AN OHIO CORPORATION

TONY A. MARR & FANNIE M. MARR

(124 A) NO TAKE

(124) NO TAKE

END SHEET STA. 916+00

NOTE: ALL PARCELS ARE U FUNDS EXCEPT PARCELS 96-WD, 96A-WD, 96-WA-96A-WA, 103B-WA, 106-WD, 106-T 108-WD, 108-T, 115-WD, 115-T, 117-WD, 117-T, 117A-T, 119-WD, 119-T, 123-WD, 123-T, 125 125-WA & 125A-WA WHICH ARE T FUNDS

SEE R/W SHEET 22 FOR BEARINGS & DISTANCES

SCALE IN FEET
50 25 0 50 100

REVISED R/W PCL. 115	3-1-73
ADDED PARCELS 120 WA & 122 WA	8-25-71
REVISED FUNDING	9-10-71
CONVERTED "T's to WA's PCL. 96 PER CRAJAIC	9-29-71
ADDED NOTE ABOUT SIGN PCL 117A-T	11-1-71
DELETED PCL 131-T	11-1-71
DELETED PCL 120 WA	11-12-71
REVISED 125 WD TO 125 EASEMENT	11-12-71
REVISED NAME PCL 123 WD	1-5-72
COMPLETION DATE	

ADDED BRGS. & DISTS. PCL. 62T 1/29/74
11-27-73 REV. PCL 96 WA TO "T"

LINE SHEET	BY	DATE
SURVEYED	R.S.	3-21-70
PLOTTED	R.S.	7-15-70
INKED		
DENOTED		
QUANTITIES		

CHECKED BY: M.K.M. 7-6-70

BRUNING 44.560 10943

RIGHT OF WAY SHEET STA. 892+00 TO STA. 916+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

TRU.-422-14.67

20/22

LINCOLN REALTY CO. PLAT No. 1
VOL. 12 PG. 32

DEF. STA. 922+92.38
Δ = 0°-04'-00" LT.

TRUMBULL COUNTY
WEATHERSFIELD TOWNSHIP
LOT 4
T-3N R-3W

BEGIN SHEET STA. 916+00

END SHEET STA. 928+00

LINCOLN DRIVE 50'
EXISTING R/W

CORPORATION LIMITS CITY OF NILES

MICHAEL E. LESTER & CONNA A. LESTER aka CONNA NAN LESTER fka CONNA NAN SCHULTZ

(133 T) TBA 3701 S.F. DRIVE & GRADING

JOHN SLIWINSKI ET. AL.

(134 T) TBA 1641 S.F. GRADING

CONSTRUCTION LIMITS

OVERHEAD SIGN

EXISTING R/W

S. 37°-43'-E.

℄ U.S. 422

S. 37°-47'-E. CORP LIMITS CITY OF NILES

END PROJECT
STA 919+32.38
FED Nº. U-522(27)

END ACQUISITION
STA. 922+52.89

(124A) NO TAKE
TONY MARR, PAUL MARR & ROCCO CONSTANTINO

(126) NO TAKE
LOUIS DELUCIA

(128) NO TAKE
FULLY R. SPAIN

(130) NO TAKE
GREEN ACRES, INC.

TRUMBULL COUNTY
WEATHERSFIELD TOWNSHIP
LOT 5 T.3-N, R.3-W
CITY OF NILES

U-FUNDS

SCALE IN FEET
50 25 0 50 100

(39 T)
A-N 71°35'30"W - 18.70'
B-N 56°45'40"E - 27.47'
C-N 10°07'30"E - 195.88'
D-S 79°19'30"E - 10.00'
3-S 10°07'30"W - 195.79'
4-S 38°07'03"W - 24.42'

(37 T)
4-S 79° 52'30"E - 10.00'
5-S 10°07'30"W - 39.00'
6-N 79°52'30"W - 2.00'
7-S 10°07'30"W - 6.00'
8-S 79°52'30"E - 2.00'
9-S 10°07'30"W - 96.55'
11-N 79°19'30"W - 10.00'
12-N 10°07'30"E - 31.46'
13-N 79°52'30"W - 10.00'
14-N 10°07'30"E - 95.00'
15-N 03°54'40"W - 20.61'
16-N 25°22'48"E - 57.01'
17-S 10°07'30"W - 60.00'

(63 WD) TBA 0.01Ac. PRO 0.06Ac. CONT 0.07Ac.

(55 WD) TBA 0.02Ac. PRO 0.07Ac. CONT. 0.09Ac.

(55 T) TBA 0.05Ac. DRIVE & GRADING

(57 WD) TBA 0.03Ac. PRO 0.06Ac. CONT 0.09Ac.

(57 T) TBA 0.06Ac. DRIVES & GRADING

(59 WD) TBA 0.02Ac. PRO 0.06Ac. CONT 0.08Ac.

(59 T) TBA 0.02Ac. DRIVE & GRADING

(63 WD) TBA 0.06Ac. PRO. 0.18Ac. CONT 0.24Ac.

(63 AWA) TBA 0.06Ac. DRIVES & GRADING.

(63 WA) REMOVAL OF OVERHANG.

(59 T)
③ N10°07'30"E - 105.00'
⑤ S80°31'30"E - 10.00'
⑥ S10°07'30"W - 105.00'
⑦ N80°31'30"W - 10.00'

(60-B WD) T.B.A. 1329 S.F. P.R.O. 2014 S.F. TOTAL 3343 S.F.

(60-B T) T.B.A. 966 S.F. DRIVE & GRADING

(65 A WD) TBA 0.02Ac. PRO 0.04Ac. CONT 0.06Ac.

(65 A-T) TBA 0.03Ac. DRIVE & GRADING.

STA Ⓐ = 825+77.12 U.S.R. 422 = 10+00 ℄ R/W HEATON N. RD.
STA Ⓑ = 825+99.73 U.S.R. 422 = 10+00 ℄ R/W HEATON N. RD.

TRUMBULL COUNTY
HOWLAND TOWNSHIP
LOT 41
T-4N R-3W

GARGHILL LITTLE FARMS PLAT VOL. 9 PG. 46

LINE SHEET

BY	DATE	CHECKED BY	DATE
SURVEYED	Salomon	5-6-70	M.K.M.	7-14-70
PLOTTED	Salomon	7-20-70		
INKED				
DESIGNED				
QUANTITIES				

CONVERTED PCL 63-T TO 63WA PER GUIDANCE 10-22-71
REVISED NAME PCL 57 11-21-71
REVISED R/W LINE PCL 57WD 11-11-71
ADDED 864 & DIST. TO PCL 59-T 11-19-71
ADDED GAS TANKS PCL 62-T 2-15-72

P.M. GAS WASH CO.
(60 WD-1) TBA 1,474 S.F.
(60 T-1) TBA 4155 S.F.
DAVE & RECONNER'S EXISTING C.B.

FRANK BESHARA & FRANK FETCHET

TREMARCO CORPORATION, A DELAWARE CORPORATION

NOTE: FOR DETAILS OF PARCELS 62-WD & 62-T SEE SHEET Nº. 16

ESTATE OF CLARENCE W. OTTO AKA C.W. OTTO, Decd. & MARY C. OTTO

(39 WD) TBA 2,331 S.F. PRO 7008 S.F. CONT. 9,339 S.F.

(39 T) TBA 2688 S.F. GRADING

DURATION OF WORK: 60 DAYS
P.C. STA 824+69.09

J.J.D. INC., AN OHIO CORPORATION

(37 WD) TBA 4,264 S.F. PRO 7,096 S.F. CONT 11,360 S.F.

(37 T) TBA 2,988 S.F. DRIVE & GRADING
FOR BRG. & DIST: SEE ABOVE!

ANTHONY CIMINERO & NELLIE CIMINERO

(43 WD) TBA 1,091 S.F. PRO 4,375 S.F. CONT 5,466 S.F.

(45) NO TAKE
MYRON E. DAUM & FERN DAUM

(49) NO TAKE
MARY A. HARNAR

(51) NO TAKE
MANUEL J. SKOPOS & EUGENIA SKOPOS

JOSEPH C. COOK & BETTY C. COOK

FORREST W. SMITH & DOROTHY M. SMITH

THIRD WARREN CORP., AN OHIO CORPORATION

NILES ASSOCIATES, AN OHIO LIMITED PARTNERSHIP

THE SUN OIL CO. OF PENNSYLVANIA A PENNSYLVANIA CORPORATION

HARRY S. KEFFALOS & MARY KEFFALOS

DALE N. MILLS & MARY J. MILLS, OWNERS, SETH W. BARTLETTE & JANE BARTLETTE, HOLDERS OF LAND CONTRACT

CHRIST MICHELAKIS & MARGARET MICHELAKIS, OWNERS EMMANUEL N. MICHELAKIS & CHRISTINE MICHELAKIS, HOLDERS OF LAND CONTRACT

NOTE: FOR DETAILS OF PARCELS 70-ST SEE R/W SHEET 16

EASEMENT TO REDROCO, INC. FOR INGRESS & EGRESS

CORPORATION LIMITS CITY OF NILES

SEE R/W SHT. 16 FOR PCL. 65-WD

BEGIN WORK STA 4+40

END WORK STA 18+25

NAME REVISION PCL TO 3-29-72

SCALE IN FEET
50 25 0 50 100

FOR BEARINGS & DISTANCES SEE R/W SHEET 22

T.-FUNDS

REVISED DRIVE PARCEL 59-T	6-4-71
ADDED PCL 63-WA	6-17-71
DELETED PCLS 48-T, 37A-T, REVISED TBA'S ALL SHTS. & PCL. 55-T, 59-T, 63-T, ADDED PCL 60-T-1	8-20-71
ADDED BRGS. & DISTANCES for PCL 39-T 11-29-71	8-20-71
REVISED FUNDING	9-10-71
CORRECTED STATIONING TO 84+03.19 P/I 60BT	9-14-71 J.R.T.
REVISED NAME PCL 57WDT	9-16-71 G.A.S.
REVISED NAME PCL 53WD	9-29-71
Completion Date	

BRUNING 44-560 10943

RIGHT OF WAY SHEET STA. 916+00 TO STA. 928+00 & HEATON NORTH RO

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

TRU.-422-14.67

21
22

BEGIN SHEET STA. 285+00

HOWLAND HOMES PLAT No 3
Vol. 11, Pg. 38

KHEVA T. GHISEA aka. KHEVA TANASE GHISEA

CITY LOT 7404 — LOT 46 — LOT 45 — RONALD E. LEONARD & JANE E. LEONARD

CITY LOT 7403 — LOT 44

C.R. PROPERTIES, INC., AN OHIO CORPORATION

SCALE IN FEET
50 25 0 50 100

96 WD — T.B.A. 312 S.F.
96 WD — T.B.A. 162 S.F.
96 A/T — T.B.A. 7349 S.F. DRIVES & GRADING
98 T — T.B.A. 805 S.F. GRADING
98 A/T — T.B.A. 700 S.F. DRIVE & GRADING

NOTE: SIGN in PCL. 96A-T NOT TO BE DAMAGED.
NOTE: BRICK BLDG. NOT TO BE DAMAGED.

1-Sty. Fr. House — 1-Sty. Fr. House — Gar. — 1-Sty. Brick Bldg. — 1-Sty Brick (Shell)

EXISTING R/W 7 — EXISTING R/W 7 — EXISTING R/W 7

℄ S.R. 46 — N-39°-28'-E

℄ MORELAND AVE. — N 5°32' W EXIST. R/W 18.00

290+81.60 51' Lt. — N39°28'E 18.00 — 290+81.60 33' Lt. — EXIST. R/W 25.45' — 290+99.60 33' Lt. — ℄ S.R. 46

TBA 162 m²

DETAIL "A" No Scale

JOHN KOVACS & HELEN M. KOVACS
100 WD — T.B.A. 843 S.F. PRO. 691.9 S.F. TOTAL 7762 S.F.

S 80°02' W 0.E +25.70

HERSCHEL H. BUCHANAN

TRUMBULL COUNTY
HOWLAND TOWNSHIP
LOT 45
T-4N R-3W

CITY OF NILES, OHIO

102 WD — T.B.A. 1536 S.F. PRO. 9000 S.F. TOTAL 10,536 S.F.
102 T — T.B.A. 3,961 S.F. DRIVES & GRADING

RICHARD S. HAWKES

20' RESERVATION FOR INGRESS AND EGRESS

LOT 1 — LOT 2 — PART OF LOT 5

RICHARD S. HAWKES PLAT No 1 Vol. 14, Pg 100

THE STANDARD OIL COMPANY, AN OHIO CORPORATION

LOT 3 — Tele & Sons Garage

N 50°32' W — EXIST. R/W

S-37°-23'-E 896

S-37°-44'-E 894 — ℄ U.S. 422

Retain Wall 7

1-Sty Brick Shell

894+14.49 40' Rt.
894+23.26 40' Rt.
294+78 50' Lt.
294+78 40' Lt.
295+64.70 40' Lt.
Ch. Brg. N 0°52'E Ch. 62.59 Arc 61.37 Rad. 50°
℄ R/W
S 37°23'E 39.91'
EXISTING R/W 7 ℄ N-39°-28'-E 39.91'
295+54.70 33' Lt.
894+63.17 - 40' Rt. ℄ 422 = 295+94.61 - 33' Lt. - ℄ 46

295 ℄ S.R. 46 7 N-39°-28'-E 296

T.B.A. 947 S.F.
294+29.84 30' Rt.
(N39°28'E - 150.20' (150'D))
EXISTING R/W 7 — R/W — N39°28'E 117.32'
295+47.36 35' Rt.
+29.84 35' Rt.
℄ EXIST. R/W
T.B.A. 3508 S.F.
THE STANDARD OIL COMPANY AN OHIO CORPORATION
NOT TO BE DISTURBED
R=125.01' Arc=59.17' Ch=59.01' Ch Brg S 88°57'30"E
+28.07 - 40' Rt. ℄ 422 +80.04 - 30' Rt. ℄ 46
+29.65 - 65.69' Rt.
895+64.72 - 40' Rt. - ℄ 422
295+71.70 - 65.69' Rt. - ℄ 46

DETAIL "B" - No Scale ℄ S.R. 46
293+09.84 30' Rt.
293+29.84 30' Rt.
293+09.84 35' Rt.
293+29.84 35' Rt.
+29.84 40' Rt.
+29.84 45' Rt.
EXIST R/W
20' RESERVATION FOR INGRESS & EGRESS

DELETED PCL. 96 CWD, REV. LIMITS OF PCL. 96 BWD & BWA. REVISED LOCATION OF PCL. 102 WD: PER RELOCATION OF OVERHEAD SIGN FROM STA. 291+20 TO STA. 290+89.

DETAIL "C" No Scale ℄ S.R. 46
EXISTING R/W
290+86 35' Rt.
290+92 35' Rt.
R/W
290+86 41' Rt.
290+92 41' Rt.

"T" FUNDS
106 WD — T.B.A. 600 S.F.
106 T — T.B.A. 12.00 S.F. DRIVE & GRADING
104 WD — T.B.A. 225 S.F.
104 T — T.B.A. 225 S.F. GRADING

END SHEET STA. 308+00

SEE DETAIL "A"
SEE DETAIL "B"
SEE DETAIL "C"

OVERHEAD SIGN

Willow — Maple — Pine — Oak — Cherry — Elm — Evgrs — Shrubs — Apple — Crab Apple — Gas Meters — High Voltage Box — Gas Vault — Curb Inlet — Catch Basin — Manhole — Guard Rail

Retain Wall 7 — Retain Wall 6 — Sign Mh. — Sign Not To Be Disturbed

+3.00 Dr. 6" Bit. Conc. — +4.00 Dr. 10" Slag — +4.00 Dr. 12" Bit. Conc. — +5.00 Dr. 15" Bit. Conc. — +6.00 Dr. 18" Bit. Conc. — +7.00 Dr. 24" Bit. Conc. — +10.00 Dr. 36" Bit. Conc. — +4.00 Dr. 31" Brick — +4.00 Dr. 31" Brick Conc. — +4.00 Dr. 10" Conc. — +4.00 Dr. 12" Conc. — +5.00 Dr. 15" Conc. — +6.00 Dr. 18" Conc. — +7.00 Dr. 24" Conc. — +10.00 Dr. 36" Conc.

Tele Pole — Tele Pole & Guy — Tele Pole & Anchor — Light Pole — Power Pole — Power Pole & Guy — Power Pole & Anchor — Power Pole & Transformer

1-Sty Conc. Block Service Sta. & Barber Shop

C.R. PROPERTIES, INC., AN OHIO CORPORATION

96 — 1-Sty Brick (Shell) — 1-Sty Conc Blk Bldg — 1-Sty Brick Red Barn — 1-Sty Brick House — 1-Sty. Fr. Bldg. Firestone

THE COMPARATO REALTY COMPANY

SEE R/W SHEET No 19 FOR DETAILS OF THESE PARCELS.

CITY OF NILES CORPORATION LINE

CHARLES H. BENDIG & MARJORIE A. BENDIG
105 T — T.B.A. 1457 S.F. DRIVE & GRADING

FRED H. LAW
107 — No Take

LULA GENTITHES
103 WA — DRIVES & GRADING
105 WA — DRIVE
EXIST. CLASS I EASE. V591, P401

LAWRENCE W. JOLLEY
115 T — T.B.A. 975 S.F. DRIVE & GRADING
115 WD — T.B.A. 1365 S.F.
115 S — T.B.A. 250 S.F.

ROSARIO BASILE
113 WA — WORK SPACE
113 WA — DRIVE

SALLY J. TENNEY
111 T — T.B.A. 1488 S.F. DRIVE & GRADING
109 — No Take
SALLY E. SUDA

TRUMBULL COUNTY
HOWLAND TOWNSHIP
LOT 45
T-4N, R-3W

NOTE: 2 SPRUCE TREES NOT TO BE DISTURBED
NOTE: 2 CRAB APPLE TREES NOT TO BE DISTURBED

SEE R/W SHEET 22 FOR BEARINGS & DISTANCES

SCALE IN FEET
50 25 0 50 100

ADDED PCL 115-S, REVISED LOCATION OF	8-23-71
PCLS 96 CWD & 102 WD	
REVISED NAME PARCEL 98-T	8-24-71
REVISED FUNDING	9-10-71
CONVERTED "T's to "WA's PCL 96 per Cusiak	9-29-71
ADDED 2 SIGNS & LIGHT POLE PCL 96 AWD	10-19-71
REVISED R/W & AREA OF TAKE PCL 115	3-1-73
REV. 96 AWA TO 96 AT & REV. T.B.A.	11-27-73
Completion Date	

RIGHT OF WAY SHEET STA. 286+00 TO STA. 308+00 S.R. 46

LINE SHEET

BY	DATE	CHECKED BY	DATE
		M.K.M.	
R.S.	3-21-70		

SURVEYED
PLOTTED
INKED
DESIGNED
QUANTITIES

BRUNING 44-560 10943

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

TRU. 422-14.67

22/22

10
1. S46°29'30"E ~ 5.00'
2. S43°30'30"W ~ 5.00'
3. N46°29'30"W ~ 5.00'
4. N43°30'30"E ~ 5.00'

115 S
1. S9°45'30"W ~ 25.03'
2. N80°24'30"E ~ 10.00'
3. N9°45'30"E ~ 24.97'
4. S79°59'30"W ~ 10.00'

13 WD
1. N46°29'30"W ~ 70.66'
2. N43°57'30"E ~ 5.00'
3. S46°29'30"E ~ 70.64'
4. S43°44'30"W ~ 5.00'

13 S
1. S46°29'30"E ~ 34.73'
2. N44°00'30"E ~ 5.00'
3. N46°29'30"W ~ 34.77'
4. S43°30'30"W ~ 5.00'

26 WD
1. S46°29'30"E ~ 10.00'
2. S42°05'00"W ~ 10.00'
3. N02°11'56"W ~ 14.32'

28 WD
1. N42°05'00"E ~ 10.00'
2. S46°29'30"E ~ 10.00'
3. S87°47'06"W ~ 13.97'

39 WD
1. N10°07'30"E ~ 254.09'(C)
2. N79°19'30"W ~ 35.00'
3. S10°07'30"W ~ 195.79'
4. S38°07'03"W ~ 24.42'
5. S16°10'16"W ~ 30.02'
6. S71°35'30"E ~ 50.15'

37 WD
1. N10°07'30"E ~ 284.09'
2. N80°31'30"W ~ 45.00'
3. S10°07'30"W ~ 141.69'
4. N79°52'30"W ~ 10.00'
5. S10°07'30"W ~ 39.00'
6. S79°52'30"E ~ 2.00'
7. S10°07'30"W ~ 6.00'
8. N79°52'30"W ~ 2.00'
9. S10°07'30"E ~ **96.55'**
10. S79°**19**'30"E ~ **35.00'**

REVISE PCL. 99 WD TO 99 WD, S & T 3-19-73

79 T
1. N25°10'16"E ~ 10.00'
2. R=11,519.16' Arc=50.26'
   CH=50.26' CH. BRG=S64°42'14"E
3. S25°25'16"W ~ 10.00'
4. R=11,509.16' Arc=50.22'
   CH=50.22' CH. BRG.=N64°42'14"W

43 WD
1. N10°07'30"E ~ 175.00'(D)
2. N80°31'30"W ~ 25.00'
3. S14°27'36"W ~ 132.30'
4. S10°07'30"W ~ 43.20'
5. S80°31'30"E ~ 35.00'

63 WD
1. N10°07'30"E ~ 137.81'(D)
2. S80°31'30"E ~ 35.00'
3. S10°07'30"W ~ 81.33'
4. S31°35'09"E ~ 37.26'
5. R=11,514.16', Arc L.=116.02',
   CHD L.=116.02', CHD BRG.=S73°00'36"E
6. S10°07'30"W ~ 40.67'
7. N71°35'30"W ~ 176.85'(D)

53 WD
1. N10°07'30"E ~ 105.00'(D)
2. S80°31'30"E ~ 25.00'
3. S10°07'30"W ~ 35.00'
4. S 6°02'09"W ~ 70.12'
5. N80°31'30"W ~ 30.00'

55 WD
1. N10°07'30"E ~ 125.14'(Meas.& Used) 125.00'(D)
2. S80°31'30"E ~ 30.00'
3. S 7° 41' 26"W ~ 117.65'
4. S79°52'30"E ~ 5.00'
5. S10°07'30"W ~ 7.49'
6. N80°31'30"W ~ 40.00'

57 WD
1. N10°07'30"E ~ 100.23'(Meas.& Used) 100.00'(D)
2. S80°31'30"E ~ 40.00'
3. S10°07'30"W ~ 7.51'
4. N79°52'30"W ~ 5.00'
5. S10°07'30"W ~ 49.00'
6. S79°52'30"E ~ 3.00'
7. S10°07'30"W ~ 6.00'
8. N79°52'30"W ~ 3.00'
9. S10°07'30"W ~ 37.77'
10. N80°31'30"W ~ 35.00'

59 WD
1. N10°07'30"E ~ 105.00'(D)
2. S80°31'30"E ~ 35.00'
3. S10°07'30"W ~ 105.00'
4. N80°31'30"W ~ 35.00'

65 WD
1. N10°07'30"E ~ 48.70'
2. S72°38'42"E ~ 32.73'
3. S17°26'10"W ~ 8.00'
4. S72°13'42"E ~ 144.84'
5. S10°07'30"W ~ 42.83'
6. N71°35'30"W ~ 176.83'(D)

65 A WD
1. N10°07'30"E ~ 70.00'(D)
2. S80°31'30"E ~ 35.00'
3. S10°07'30"W ~ 70.00'
4. N80°31'30"W ~ 35.00'

60 WD
1. S74°06'30"E ~ 85.75'
2. S22°23'30"W ~ 5.03'
3. N74°06'30"W ~ 76.66'
4. S15°53'30"W ~ 10.00'
5. N74°06'30"W ~ 6.96'
6. N9°57'30"E ~ 15.08'

60 A WD
1. S74°06'30"E ~ 150.16'(Calc.& Used) 150.00'(D)
2. S22°23'30"W ~ 5.03'
3. N74°06'30"W ~ 150.16'
4. N22°23'30"E ~ 5.03'

62 WD
1. S74°06'30"E ~ 49.30'
2. R=11,419.16' Arc L.=100.86'
   Chd L.=100.86' Chd Brg=S73°51'19"E
3. S22°24'30"W ~ 149.16'(Calc & Used) 150'(D)
4. N74°05'30"W ~ 20.13'
5. N17°40'48"E ~ 60.66'
6. N20°17'31"E ~ 17.01'
7. N67°35'30"W ~ 9.37'
8. N20°17'31"E ~ 6.00'
9. S67°35'30"E ~ 9.15'
10. N20°17'31"E ~ 28.21'
11. R=30' Arc L.=49.32'
    Chd L.=43.95' Chd. Brg=N26°48'30"W
12. R=11,414.16' Arc L.=39.77'
    Chd L.=39.77' Chd Brg.=N74°00'31"W
13. N74°06'30"W ~ 49.87'
14. N22°23'30"E ~ 5.03'

60-B WD
1. S22°24'30"W ~ 80.51'(D) 80.54'(M&U)
2. N74°05'30"W ~ 38.25'
3. N17°23'30"E ~ 80.05'
4. S74°05'30"E ~ 45.29'

60-B WD-1
1. S22°24'30"W ~ 51.20'(D)
2. N80°01'30"W ~ 30.72'
3. N16°42'29"E ~ 50.34'
4. S80°01'30"E ~ 35.84'

60 WD-1
1. N80°01'30"W ~ 10.24'
2. N22°24'30"E ~ 111.38'
3. N16°58'05"E ~ 31.64'
4. S74°05'30"E ~ 13.08'
5. S22°24'30"W ~ 142.15'(D&M)

68 WD
1. R=11,459.16' Arc L=638.88'
   Chd Brg=S68°01'26"E Chd L.=638.80'
2. S28°47'00"W ~ 75.31'
3. R=11,384.16' Arc L=630.52'
   Chd. Brg=N68°02'52"E Chd L=630.44'
4. N22°24'30"E ~ 75.05'

70 S
1. R=11,419.16' Arc L=150.00'
   Chd.Brg=S72°58'26"E Chd.L=150.00'
2. S17°01'30"W ~ 5.00'
3. R=11,414.16' Arc L=150.47'
   Chd.Brg=N72°58'30"W Chd.L=150.47'
4. N22°24'30"E ~ 5.00'

72 WD
1. R=11,459.16' Arc L=595.56'(596.56 D)
   Chd.Brg.=S71°06'36"E Chd.L=595.49'
2. S22°24'30"W ~ 50.03'
3. R=11,409.16' Arc L=363.19'
   Chd Brg=N70°32'31"W Chd L=363.17'
4. N71°24'23"W ~ 18.89'
5. N65°58'15"W ~ 100.11'
6. R=11,419.16' Arc L=128.28'
   Chd. Brg=N72°16'32"W Chd L=128.28'
7. N17°01'30"E ~ 40.00'

72 S
1. R=11,419.16' Arc L=128.28'
   Chd.Brg=S72°16'32"E Chd.L=128.28'
2. S65°58'15"E ~ 48.96'
3. R=11,414.16' Arc L=176.89'
   Chd.Brg=N72°09'12"W Chd L=176.89'
4. N17°01'30"E ~ 5.00'

77
1. R=11,499.16', Arc L=51.16'
   Chd. Brg=N64°58'50"W Arc L=51.16
2. N 24°53'31"E ~ 10.00'
3. R=11,509.16' Arc L=49.66'
   Chd. Brg.=S64°59'04"E, Chd 49.66'
4. S16°21'06"W ~ 10.12'

79
1. R=11,499.16', Arc L=145.02'
   Chd Brg. N64°29'32"W, Chd. L=145.02'
2. N16°21'06"E ~ 10.12'
3. R=11,509.16', Arc L=143.80'
   Chd. Brg. S64°30'10"E, Chd L=143.80'
4. S 9°45'16"W ~ 10.41'

81
1. N09°45'16"E ~ 3.12'
2. RAD=11,502.16' Arc=73.50'
   CH=73.50' CH. BRG=S63°57'06"E
3. N26°13'53"E ~ 3.00'
4. RAD=11,505.16' Arc=6.02'
   CH=6.02' CH. BRG=S63°45'13"E
5. S26°15'41"W ~ 3.00'
6. RAD=11,502.16' Arc=87.33'
   CH=87.33' CH. BRG=S63°31'16"E
7. N76°47'06"E ~ 10.91'
8. S09°45'16"W ~ 1.53'
9. RAD=17.90' Arc=8.63'
   CH=8.55' CH. BRG=S23°33'49"W
10. RAD=11,499.16' Arc=175.22'
    CH=175.22' CH. BRG.=N63°41'39"W

85 S
1. R=11,509.16', AL=10.11', CHL=10.11',
   CHB N54°16'46"W
2. N27°20'59"E ~ 216.68'
3. S 79° 30' 30"E ~ 10.44'
4. S 27° 20'59"W ~ 221.18'

125
1. S34°57'52"E ~ 142.16'
4. N37°23'00"W ~ 142.03'
5. N52°37'00"E ~ 6.00'

99 T
1. S37°44'00"E ~ 60.00'
2. S11° 10' 06"E ~ 33.54'
3. N37°44'00"W ~ 90.00'
4. S52°16'00"W ~ 15.00'

85 WD
1. N 54°04'00"W ~ 1208.12'(C&U) 1209.65'(D)
2. N 35°44' 30"E ~ 79.66'
3. S 5°23'51"E ~ 39.72'
4. R=11,509.16' AL=62.70', CHL = 62.70'
   CHD B = S 54°13'22"E
5. S 54°04'00"E ~ 192.57'
6. N 25°56'00"E ~ 3.00'
7. S 54°04'00"E ~ 10.00'
8. S 25°56'00"W ~ 3.00'
9. S 54°04'00"E ~ 240.00'
10. N 25°56'00"E ~ 3.00'
11. S 54°04'00"E ~ 10.00'
12. S 25°56'00"W ~ 3.00'
13. S 54°04'00"E ~ 641.48'
14. S 9°00'30"W ~ 56.08'

91 WD
1. R=2,331.83', Arc L=105.38', Chd. L=105.37',
   Chd. Brg N 49°38'04" W
2. N 39°04'15"E ~ 3.00'
3. R=2,334.83', Arc L=105.21', Chd. L=105.20'
   Chd. Brg. S49°38'18"E
4. S 35°56'00"W ~ 3.02'

93 WD
1. R=2,331.83', Arc L=21.81', Chd. L=21.81',
   Chd Brg. N 48°04'20"W
2. N 35°56'00"E ~ 3.02'
3. R=2,334.83', Arc L=13.44', Chd. L=13.44'
   Chd. Brg. S 48°10'57"E
4. S 54°04'00"E ~ 8.75'
5. S 42°11'45"W ~ 3.94'

94 WD
1. S 52°16'00"W ~ 10.00'
2. N 7°16'00"E ~ 14.14'
3. S 37°44'00"E ~ 10.00'

96 WD
1. S 37°44'00"E ~ 769.83'
2. S 52°16'00"W ~ 3.00'
3. N 37°44'00"W ~ 4 37.00'
4. S 52°16'00"W ~ 2.00'
5. N 37°44'00"W ~ 3 13.00'
6. N 85°42'11"W ~ 29.62'
7. N 52°16'00"E ~ 27.00'

97 WD
1. N 37°44'00"W ~ 37.52'(C) ~ 37.02'(D)
2. R=2,331.83', Arc L=163.21(D) 162.92(C)&(M),
   Chd L=162.88', Chd. Brg. N39°44'05"W
3. S46°10'31"E ~ 101.14'
4. S41°04'02"E ~ 100.43'
5. S52°16'00"W ~ 15.00'

99 WD
1. S 37°44'00"E ~ 30.00'
2. N 52° 16' 00"E ~ 15.00'
3. N 11° 10' 06"W ~ 33.54'

99 S
1. S37°44'00"E ~ 10.00'
2. N52°16'00"E ~ 15.00'
3. N37°44'00"W ~ 10.00'
4. S 52°16'00"W ~ 15.00'

100 WD
1. N 80°02'40"W ~ 34.47'
2. N 39°28'00"E ~ 240.18(D) 239.14(C&U)
3. S 50°32'00"E ~ 35.00'
4. S 39°28'00"W ~ 114.84
5. S 42°08'03"~107.44'

101 WD
1. N 52°16'00"E ~ 10'
2. S 7°16'00"W ~ 14.14'
3. N 37°44'00"W ~ 10.00'

65 A-T
1. N10°07'30"E ~ 70.00'
2. S80°31'30"E ~ 10.00'
3. S10°07'30"W ~ 42.34'
4. S79°52'30"E ~ 15.00'
5. S10°07'30"W ~ 27.49'
6. N80°31'30"W ~ 25.00'

67 WD
1. N10°07'30"E ~ 42.83'
2. S71°20'50"E ~ 199.28'
3. S10°07'30"W ~ 41.97'
4. N71°35'30"W ~ 200(D) 199.14' M&U

69 WD
1. N10°07'30"E ~ 41.97'
2. S60°00'55"E ~ 57.45'
3. S10°07'30"W ~ 30.32'
4. N71°35'30"W ~ 53.66(D) 54.60 M&U

75 S
1. N49°21'38"E ~ 50.00'
2. S40°38'22"E ~ 20.00'
3. S49°21'38"W ~ 41.29'
4. N62°57'29"W ~ 21.62'

102 WD
1. N39°28'00"E ~ 300'(D)
2. S 50°32'00"E ~ 35.00'
3. S 39°28'W ~ 172.84'
4. N 50°32'W ~ 6.00'
5. S 39°28'W ~ 6.00'
6. N 50°32'W ~ 6.00'
7. S 39°28'W ~ 121.16'
8. N 50°32'W ~ 35.00'

104 WD
1. N39°28'E ~ 45'(D)
2. S 50°32'E ~ 5.00'
3. S 39°28'W ~ 45.00'
4. N 50°32'W ~ 5.00'

106 WD
1. N 39°28'E ~ 120'(D)
2. S 50°32'E ~ 5.00'
3. S 39°28'W ~ 120.00'
4. N 50°32'W ~ 5.00'

115 WD
1. N 09°45'30"E ~ 195.00'
2. S 80°14'30"E ~ 7.00'
3. S 09°45'30"W ~ 195.00'
4. N 80°14'30"W ~ 7.00

117 WD
1. S79°59'30"E ~ 33.00'
2. S09°45'30"W ~ 101.19'
3. S14°21'27"E ~ 61.69'
4. S36°49'49"E ~ 267.95'
5. S52°37'00"W ~ 48.41'
6. N37°23'00"W ~ 300'(D) 300.02' C&U
7. N09°45'30"E ~ 173.2'(D)

82
1. RAD=11,419.16' Arc=5.00'
   Chd=5.00' Chd Brg=S56°06'14"E
2. S35°54'31"W ~ 3.00'
3. RAD=11,416.16' Arc=5.00'
   Chd=5.00' Chd Brg=N54°06'14"W
4. N35°53'01"E ~ 3.00'

77 T
1. N62°38'01"E ~ 32.06'
2. R=11,534.16' Arc=54.35'
   CH=54.35' CH. BRG=S66°05'20"E
3. S57°41'51"E ~ 71.13'
4. R=11,524.16' Arc=65.37'
   CH=65.37' CH. BRG=S65°26'29"E
5. S24°43'16"W ~ 5.00'
6. R=11,519.16' Arc=82.48'
   CH=82.48' CH. BRG=S65°04'25"E
7. S16°21'06"W ~ 10.11'
8. R=11,509.16' Arc=293.89'
   CH=293.88' CH. BRG=N65°35'05"W

69 T
5. N10°07'30"E ~ 5.06'
6. S70°43'09"E ~ 54.73'
7. S10°07'30"W ~ 15.87'
8. N60°00'55"W ~ 57.45'

65 T
1. N17°26'10"E ~ 8.00'
2. N77°21'14"E ~ 13.95'
3. S72°23'29"E ~ 45.27'
4. S17°43'16"W ~ 5.00'
5. S72°03'52"E ~ 86.26'
6. S10°07'30"W ~ 10.04'
7. N72°13'42"W ~ 144.84'

114 S
1. S37°23'00"E ~ 11.07'
2. N80°02'00"W ~ 15.52'
3. N09°58'00"E ~ 7.50'
4. S80°02'00"E ~ 7.38'

116 S
1. N80°02'00"W ~ 23.66'
2. N09°58'00"E ~ 7.50'
3. S80°02'00"E ~ 15.52'
4. S37°23'00"E ~ 11.07'

119 WD
1. S36°49'49"E ~ 150.03'
2. S52°37'00"W ~ 46.97'
3. N37°23'00"W ~ 150'(D) 150.02' C&U
4. N52°37'00"E ~ 48.41'

123 WD
1. S36°49'49"E ~ 100.01'
2. S52°37'00"W ~ 46.00'
3. N37°23'00"W ~ 100'(D) 100.01' C&U
4. N52°37'00"E ~ 46.97'

Revised Brg. & Distances Pcl. 115 3-1-73
Revised 94 WD to 94 BWD per outsale 1-23-72
Rev. Distances Pcl 102 WD- 3-3-72

Revised Brg & Dist. Parcel 37 WD	8-20-71
Added Pcl. 115-S	8-23-71
Added Parcel 82	10-18-71
Revised Distances Pcl's 57 WD & 37 WD	11-1-71
Added Parcel 77-T	11-1-71
Revised Pcl 125 WD to 125 Easement	11-12-71
Revised Brgs. & Dist. Pcl. 81	11-16-71
Added Brg & Dist. Pcls. 79-T, 65-T, A-T & 69-T	11-19-71
Completion Date	

BRUNING 44-560 10943

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600 - 12 - 68

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DIVISION OF

TRUMBULL COUNTY
TRU-422-(14.70)(16.38)
F-522(27)
T-4005(6)

1/2
1/4

GEOLOGY OF THE SITE

THE STRUCTURE SITE IS LOCATED ON THE BROAD FLOODPLAIN OF MOSQUITO CREEK, IN AN AREA WHERE DEEP VALLEY FILL AND ALLUVIUM OVERLIE SHALE AND SILTSTONE BEDROCK, OF MISSISSIPPIAN AGE.

EXPLORATION

THE EXPLORATION CONSISTED OF TWO DRIVE SAMPLE-CORE BORINGS AND FOUR DRIVE ROD PENETRATION TESTS, MADE BETWEEN JUNE 30 AND JULY 16, 1970.

INVESTIGATIONAL FINDINGS

BORINGS DISCLOSED SLOPING BEDROCK SURFACE, ENCOUNTERED AT 40-FOOT DEPTH, ELEVATION 831 FEET, IN THE REAR PORTION OF THE STRUCTURE SITE, AND AT 55-FOOT DEPTH, ELEVATION 815 FEET, IN THE FORWARD PORTION, IS OVERLAIN BY MEDIUM-DENSE TO VERY DENSE GRAVELLY SANDY SILTS, OCCASIONALLY CONTAINING VARIOUS AMOUNTS OF ORGANIC MATERIAL AND COBBLES. THE BORINGS WERE TERMINATED AT 55 AND 65-FOOT DEPTHS, ELEVATIONS 816 AND 805 FEET, AFTER PENETRATING 10 AND 15 FEET BELOW BEDROCK SURFACE.

THE ROD SOUNDINGS ENCOUNTERED GRADUALLY INCREASING RESISTANCE TO PENETRATION WITH INCREASING DEPTH, AND WERE TERMINATED UPON ENCOUNTER WITH NEAR-REFUSAL AND REFUSAL TO PENETRATION AT 37 TO 46-FOOT DEPTHS, ELEVATIONS 833 TO 821 FEET, CONSIDERED TO BE IN VERY DENSE MATERIALS, AS REVEALED BY THE BORINGS.

NO FREE WATER OBSERVATIONS WERE MADE IN ANY OF THE ROD SOUNDING HOLES.

LEGEND

- Auger Boring Location - Plan View.
- Press and / or Drive Sample and / or Core Boring Location - Plan View.
- Drive Rod Penetration Resistance Sounding Location - Plan View.
- Capped Pile
- Footing
- Footing on Pile
- TR — Top of Rock
- Horizontal Bar on Boring Log Indicates the Depth the Sample Was Taken.
- X/Y — Figures Beside the Boring Log in Profile Indicate the Number of Blows for Standard Penetration Test.
  - X = Number of Blows for First 6 inches.
  - Y = Number of Blows for Second 6 inches.
- Drive Rod Penetration Resistance Sounding Log - Profile
- Casing
- Resistance "R" < 10,000 lbs.
- Resistance "R" > 10,000 lbs.
- Z — Indicates Final Measurement of Penetration, in Inches.
- W — Indicates Free Water Elevation.
- Indicates Static Water Elevation.

SYMBOLS OF ROCK TYPES

- Coal
- Weathered Siltstone, Mudstone, or Claystone
- Siltstone, Mudstone, or Claystone
- Weathered Shale
- Shale
- Boulders or Cobbles
- Weathered Sandstone
- Sandstone
- Leached Dolomite
- Dolomite
- Leached Limestone
- Limestone

GENERAL INFORMATION

Drive Rod Penetration Sounding Tests

Drive rod penetration resistance tests constitute driving a 1.315-inch diameter steel rod, with a 45° cone point, into the ground, using a 122-pound drop-hammer with a free fall of five feet. At one or two-foot depth intervals, a measurement is taken to determine the amount of penetration achieved in three hammer drops. This reading is converted to an empirical value for capacity "R", in thousands of pounds (which is a measure of both the point resistance and frictional resistance on the rod), by using charts prepared by the Ohio Department of Highways, Bureau of Bridges, on the basis of correlation study of rod penetration with past performance of pile driving. For interpretation, a graph is prepared by plotting the value "R" against the depth at which the reading was taken, and connecting the plotted points. The curve so obtained reflects the density of subsurface materials in a manner that can be readily compared with data from similar tests at other locations on the structure site. From this comparison, the overall uniformity of subsurface condition may be evaluated.

Drive Sample Borings - Drive-Press Sample Borings

Drive sample borings are made by means of a rotary-type drill rig, employing a 2" O.D., 1-3/8" I.D. sampler, at 2-1/2 and / or 5-foot depth intervals, driven by means of a 140 - pound drop-hammer with a free fall of 30 inches. The number of blows required to drive the sampler 12 inches is considered the standard penetration test.

Drive-press sample borings are made by means of a rotary-type drill rig, employing a 2" O.D., 1-3/8" I.D. drive sampler, and 3" O.D. thin-wall press sampler. The press sampler is advanced by continuous uniform pressure, applied by the drill rig.

The boring log sheets show a graphic plot of the information obtained, including depth and elevation of the sample, number of blows for the standard penetration tests in two 6-inch increments, depth of press samples, field sample number, sample description - based on laboratory tests and the Casagrande AC classification system-and gradation, plasticity, and moisture content determinations. Results of strength and consolidation testing, if performed, appear on separate enclosures.

At depths where materials are bouldery or gravelly to the extent that the sampler can not be driven, a wash sample is procured for visual classification, in order to determine the general character of the material. These samples are not considered sufficiently representative to warrant laboratory testing.

Particle Size Definitions

Boulders	Cobbles	Gravel	Coarse Sand	Fine Sand	Silt	Clay
12"	3"	2.0mm (No. 10 sieve)	0.42mm (No. 40 sieve)	0.074mm (No. 200 sieve)	0.005mm	

NOTE: Information shown by this subsurface investigation was obtained solely for the use in establishing design controls for the project. The State of Ohio does not guarantee the accuracy of this data and it is not to be construed as a part of the plans governing construction of the project.

OHIO DEPARTMENT OF HIGHWAYS
TESTING LABORATORY
1620 WEST BROAD STREET, COLUMBUS, OHIO 43223

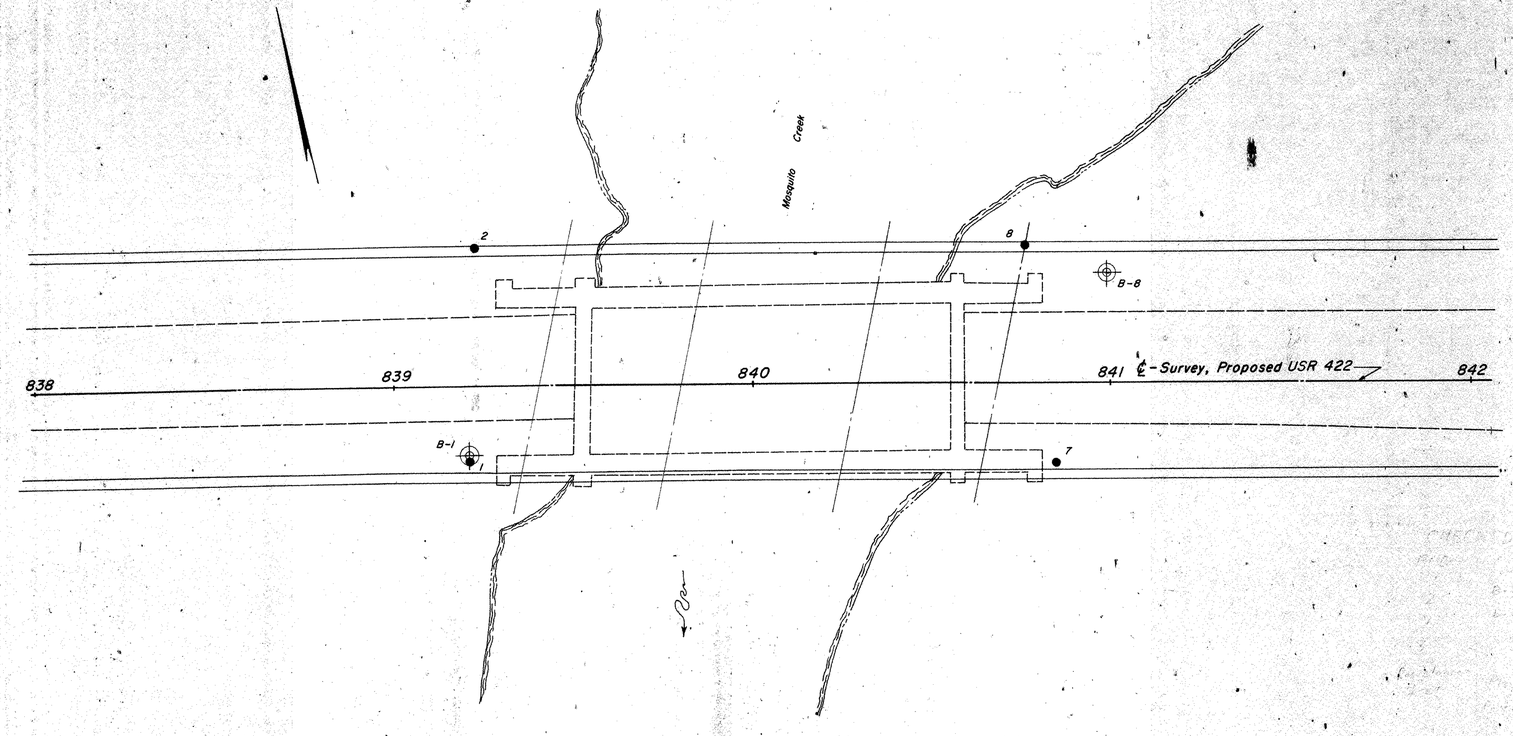
STRUCTURE FOUNDATION INVESTIGATION
BRIDGE NO. TRU-422-1590
OVER MOSQUITO CREEK
SEC. TRU-422-14.67

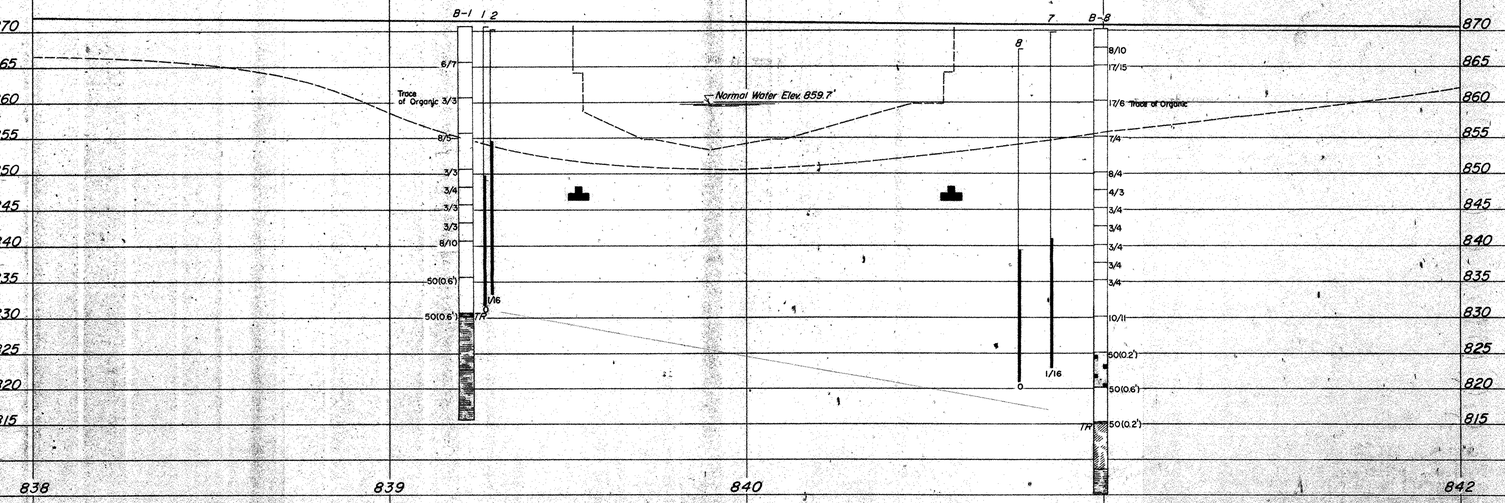
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R. D. R.	G. P. H.	8/3/70

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1000 - 12- 69

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TRU-422-(14.70) 2/4
(16.38)





VERT. SCALE 1" = 10'
HORIZ. SCALE: 1" = 20'

OHIO DEPARTMENT OF HIGHWAYS
TESTING LABORATORY
1600 WEST BROAD STREET, COLUMBUS, OHIO 43223

STRUCTURE FOUNDATION INVESTIGATION

BRIDGE NO. TRU-422-1590
OVER MOSQUITO CREEK

SEC. TRU-422-14.67

PLAN AND PROFILE

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L. L. L.	R. D. R.	G. P. H.	8/3/70

TE - 122
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DESIGN

TRU-422-(14.70)
(16.38)

LOG OF BORING

Date Started 7-15-70 | Sampler Type SS | Dia 1 3/8" | Water Elev. —
Date Completed 7-16-70 | Casing: Length 40' | Dia 3 1/2"
Boring No. B-1 | Station & Offset 839+21, 19' Rt. (Rear Abutment) | Surface Elev. 870.8'

Elev.	Depth	Std. Pen. (N)	Rec. ft.	Loss ft.	Description	Sample No.	% Agg.	% C.S.	% F.S.	% Silt	% Clay	L.L.	P.I.	W.C.	SHTL Class.
870.8	0														
	2														
865.8	4														
	6	6/7			Brownish-Gray Gravelly Sandy Clay	1	21	10	17	22	30	27	11	14	A-6a
860.8	8														
	10	3/3			Gray Sandy Silt, Trace of Organic	2	13	8	18	30	31	29	10	23	A-4a
855.8	12														
	14														
	16	8/5			Gray Silt and Clay	3	0	6	19	14	61	28	13	29	A-6a
850.8	18														
	20	3/3			Gray Silt and Clay	4	0	0	1	28	71	30	11	28	A-6a
848.3	22														
	24	3/4			Gray Silty Clay	5	3	1	1	20	75	37	20	25	A-6b
845.8	26	3/3			Gray Clay	6	0	0	1	16	83	42	24	39	A-7-6
843.3	28														
	30	3/3			Gray Silty Clay	7	0	0	1	29	70	34	16	27	A-6b
840.8	32	8/10			Gray Gravelly Silt	8	23	5	7	39	26	20	8	14	A-4a
835.8	34														
	36	50 (0.6')			Brown Gravelly Silt	9	27	5	8	39	21	NP	NP	10	A-4a
830.8	38														
	40	50 (0.4')			TOP OF ROCK Gray Weathered Shale	10	35	2	3	33	25	36	19	10	Visual
	42		3.0	2.0											
	44														
	46				Shale, gray, firm, arenaceous with some gray, firm, fine-sandstone intervals, and thick clay seams between 45' and 50', broken and jointed. Core Loss 39%.											
	48		1.8	3.2											
	50														
	52		4.6	0.4											
815.8	54				BOTTOM OF BORING										

LOG OF BORING

Date Started 7-14-70 | Sampler Type SS | Dia 1 3/8" | Water Elev. —
Date Completed 7-15-70 | Casing: Length 50' | Dia 3 1/2"
Boring No. B-8 | Station & Offset 840+99, 30' Lt. (Forward Abutment) | Surface Elev. 870.2'

Elev.	Depth	Std. Pen. (N)	Rec. ft.	Loss ft.	Description	Sample No.	% Agg.	% C.S.	% F.S.	% Silt	% Clay	L.L.	P.I.	W.C.	SHTL Class.
870.2	0														
	2														
867.7	4	8/10			Brownish-Gray Sandy Silt	1	0	13	24	36	27	NP	NP	16	A-4a
865.2	6	17/15			Brown Sandy Clay	2	14	8	16	26	36	26	11	23	A-6a
	8														
860.2	10	17/6			Brownish-Gray Silty Gravelly Sand, Trace of Organic	3	26	13	30	16	15	NP	NP	51	A-2-4
	12														
	14														
855.2	16	7/4			Gray Silty Sand	4	0	1	62	21	16	NP	NP	21	A-4a
850.2	18														
	20	8/4			Gray Silty Sand	5	13	24	41	9	13	NP	NP	19	A-3a
847.7	22	4/3			Gray Silty Clay	6	5	9	1	16	69	36	17	31	A-6b
845.2	24	3/4			Gray Silty Clay	7	0	1	0	32	67	38	19	26	A-6b
842.7	26	3/4			Gray Silty Clay	8	0	1	0	30	69	34	16	25	A-6b
840.2	28	3/4			Gray Silty Clay	9	0	0	0	26	74	38	16	34	A-6b
837.7	30	3/4			Gray Silty Clay	10	0	0	0	17	83	39	16	27	A-6b
835.2	32	3/4			Gray Silty Clay	11	0	0	0	11	89	43	16	30	A-7-6
830.2	34														
	36														
	38														
	40	10/11			Gray Sandy Gravelly Silt	12	36	7	15	28	14	NP	NP	16	A-4a
	42														
825.2	44														
	46	50 (0.2')			No Sample Recovered - Cobbles(Driller's Det.)		V	I	S	U	A	L			
820.2	48														
	50	50 (0.6')			Gray Gravelly Sandy Silt	13	17	5	15	41	22	NP	NP	12	A-4a
	52														
815.2	54	50 (0.2')			TOP OF ROCK Gray Weathered Shale	14	43	6	5	22	24	27	8	11	Visual
815.0	56														
	58		4.3	0.7	Siltstone, gray, firm with some thin intervals of gray fine-grained sandstone, broken and jointed. Core Loss 11%.										
	60														
808.7	62		5.0	0.0	Shale, gray, firm, arenaceous, broken. No Core Loss.										
805.2	64				BOTTOM OF BORING										

OHIO DEPARTMENT OF HIGHWAYS
TESTING LABORATORY
1620 WEST BROAD STREET, COLUMBUS 23, OHIO

STRUCTURE FOUNDATION INVESTIGATION
BRIDGE NO. TRU-422-1590
OVER MOSQUITO CREEK
SEC. TRU-422-14.67

BORING DATA

TYPED BY	CHECKED BY, REVIEWED BY	DATE
S. A. J.	R. D. R. G. P. H.	8/3/70

Test Location No. ____
Station & Offset ____
Surface Elev. ____ Water Elev. ____
Piling ____
Hammer ____
Formula ____
Reference ____
Rod Condition ____

B76 B72 B68 B64 B60 B56 B52 B48 B44 B40 B36 B32 B28 B24 B20

10 20 30 40 50 60 70 80 90 100
Capacity "R" in Thousands of Pounds

Test Location No. ____
Station & Offset ____
Surface Elev. ____ Water Elev. ____
Piling ____
Hammer ____
Formula ____
Reference ____
Rod Condition ____

10 20 30 40 50 60 70 80 90 100
Capacity "R" in Thousands of Pounds

Test Location No. ____
Station & Offset ____
Surface Elev. ____ Water Elev. ____
Piling ____
Hammer ____
Formula ____
Reference ____
Rod Condition ____

10 20 30 40 50 60 70 80 90 100
Capacity "R" in Thousands of Pounds

Test Location No. ____
Station & Offset ____
Surface Elev. ____ Water Elev. ____
Piling ____
Hammer ____
Formula ____
Reference ____
Rod Condition ____

10 20 30 40 50 60 70 80 90 100
Capacity "R" in Thousands of Pounds

Test Location No. 1
Station & Offset B39+21.21'RT REAR ABUTMENT
Surface Elev. B71.2 Water Elev. ____
Piling ____
Hammer ____
Formula ____
Reference ____
Rod Condition GOOD

TEST ROD

B68 B64 B60 B56 B52 B48 B44 B40 B36 B32 B28 B24 B20

10 20 30 40 50 60 70 80 90 100
Capacity "R" in Thousands of Pounds

Test Location No. 2
Station & Offset B39+23.38'LT REAR ABUTMENT
Surface Elev. B70.3 Water Elev. ____
Piling ____
Hammer ____
Formula ____
Reference ____
Rod Condition GOOD

TEST ROD

10 20 30 40 50 60 70 80 90 100
Capacity "R" in Thousands of Pounds

Test Location No. 7
Station & Offset B20+85.22'RT FORWARD ABUTMENT
Surface Elev. B69.8 Water Elev. ____
Piling ____
Hammer ____
Formula ____
Reference ____
Rod Condition GOOD

TEST ROD

10 20 30 40 50 60 70 80 90 100
Capacity "R" in Thousands of Pounds

Test Location No. 8
Station & Offset B40+16.38'LT FORWARD ABUTMENT
Surface Elev. B67.4 Water Elev. ____
TRU-422-(14.70)(16.38) 4/4
Piling ____
Hammer ____
Formula ____
Reference ____
Rod Condition GOOD

TEST ROD

10 20 30 40 50 60 70 80 90 100
Capacity "R" in Thousands of Pounds

4/4

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

STRUCTURE FOUNDATION INVESTIGATION
BRIDGE NO. TRU-422-1590
OVER MOSQUITO CREEK
SEC. TRU-422-1467

DRIVE ROD PENETRATION RESISTANCE DATA

PLOTTED BY	CHECKED BY	REVIEWED BY	DATE
R. C.	R. D. R.	G. P. H.	8/3/70

TE - 1 1 8
600 - 12 - 68

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TRUMBULL COUNTY
TRU-422-(14.70)(16.38)
F-522(27)
T-4005(6)

1/2
1/4

GEOLOGY OF THE SITE

THE STRUCTURE SITE IS LOCATED ON THE BROAD FLOODPLAIN OF MOSQUITO CREEK, IN AN AREA WHERE DEEP VALLEY FILL AND ALLUVIUM OVERLIE SHALE AND SILTSTONE BEDROCK, OF MISSISSIPPIAN AGE.

EXPLORATION

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INVESTIGATIONAL FINDINGS

BORINGS DISCLOSED SLOPING BEDROCK SURFACE, ENCOUNTERED AT 40-FOOT DEPTH, ELEVATION 831 FEET, IN THE REAR PORTION OF THE STRUCTURE SITE, AND AT 55-FOOT DEPTH, ELEVATION 815 FEET, IN THE FORWARD PORTION, IS OVERLAIN BY MEDIUM-DENSE TO VERY DENSE GRAVELLY SANDY SILTS, OCCASIONALLY CONTAINING VARIOUS AMOUNTS OF ORGANIC MATERIAL AND COBBLES. THE BORINGS WERE TERMINATED AT 55 AND 65-FOOT DEPTHS, ELEVATIONS 816 AND 805 FEET, AFTER PENETRATING 10 AND 15 FEET BELOW BEDROCK SURFACE.

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NO FREE WATER OBSERVATIONS WERE MADE IN ANY OF THE ROD SOUNDING HOLES.

LEGEND

- Auger Boring Location - Plan View.
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- Sandstone
- Leached Dolomite
- Dolomite
- Leached Limestone
- Limestone

GENERAL INFORMATION

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TESTING LABORATORY
1620 WEST BROAD STREET, COLUMBUS, OHIO 43223

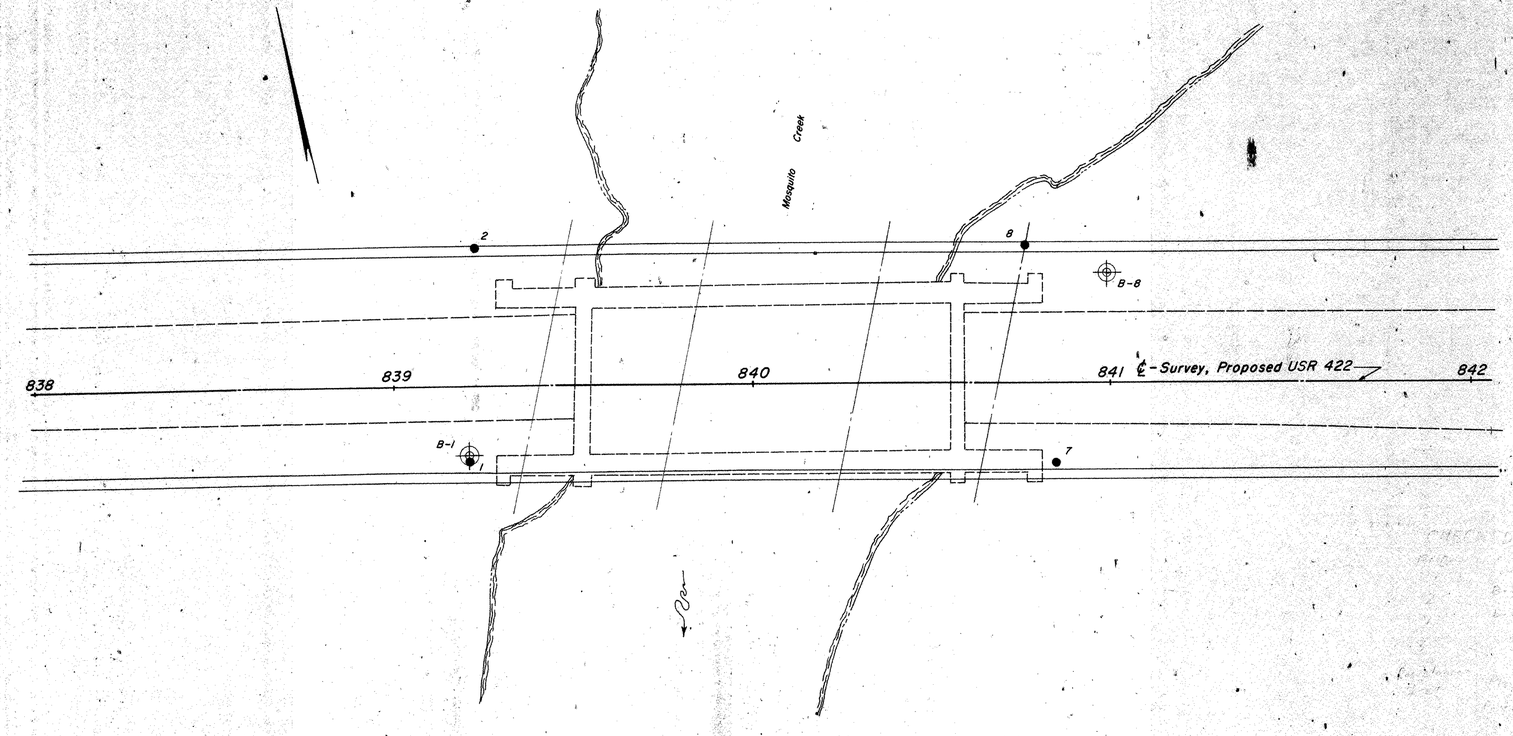
STRUCTURE FOUNDATION INVESTIGATION
BRIDGE NO. TRU-422-1590
OVER MOSQUITO CREEK
SEC. TRU-422-14.67

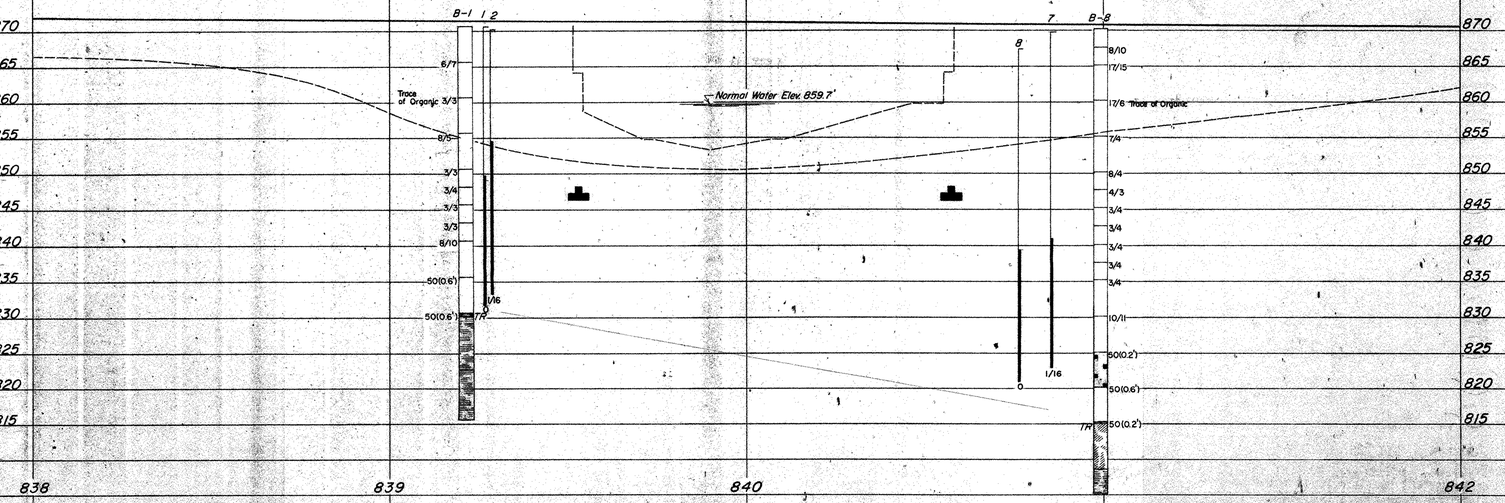
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TR. - 19
1000 - 12- 69

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APR 20 1970
DIVISION OF HIGHWAYS

TRU-422-(14.70) 2/4
(16.38)





VERT. SCALE 1" = 10'
HORIZ. SCALE: 1" = 20'

OHIO DEPARTMENT OF HIGHWAYS
TESTING LABORATORY
1600 WEST BROAD STREET, COLUMBUS, OHIO 43223

STRUCTURE FOUNDATION INVESTIGATION

BRIDGE NO. TRU-422-1590
OVER MOSQUITO CREEK

SEC. TRU-422-14.67

PLAN AND PROFILE

DRAWN BY	CHECKED BY	REVIEWED BY	DATE
L. L. L.	R. D. R.	G. P. H.	8/3/70

TE - 122
600 - 4 - 66

RECEIVED
APR 16 '79
DESIGN

TRU-422-(14.70)
(16.38)

LOG OF BORING

Date Started 7-15-70 | Sampler Type SS | Dia 1 3/8" | Water Elev. —
Date Completed 7-16-70 | Casing: Length 40' | Dia 3 1/2"
Boring No. B-1 | Station & Offset 839+21, 19' Rt. (Rear Abutment) | Surface Elev. 870.8'

Elev.	Depth	Std. Pen. (N)	Rec. ft.	Loss ft.	Description	Sample No.	% Agg.	% C.S.	% F.S.	% Silt	% Clay	L.L.	P.I.	W.C.	SHTL Class.
870.8	0														
	2														
865.8	4														
	6	6/7			Brownish-Gray Gravelly Sandy Clay	1	21	10	17	22	30	27	11	14	A-6a
860.8	8														
	10	3/3			Gray Sandy Silt, Trace of Organic	2	13	8	18	30	31	29	10	23	A-4a
855.8	12														
	14														
	16	8/5			Gray Silt and Clay	3	0	6	19	14	61	28	13	29	A-6a
850.8	18														
	20	3/3			Gray Silt and Clay	4	0	0	1	28	71	30	11	28	A-6a
848.3	22														
	24	3/4			Gray Silty Clay	5	3	1	1	20	75	37	20	25	A-6b
845.8	26	3/3			Gray Clay	6	0	0	1	16	83	42	24	39	A-7-6
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	30	3/3			Gray Silty Clay	7	0	0	1	29	70	34	16	27	A-6b
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830.8	38														
	40	50 (0.4')			TOP OF ROCK Gray Weathered Shale	10	35	2	3	33	25	36	19	10	Visual
	42		3.0	2.0											
	44														
	46				Shale, gray, firm, arenaceous with some gray, firm, fine-sandstone intervals, and thick clay seams between 45' and 50', broken and jointed. Core Loss 39%.											
	48		1.8	3.2											
	50														
	52		4.6	0.4											
815.8	54				BOTTOM OF BORING										

LOG OF BORING

Date Started 7-14-70 | Sampler Type SS | Dia 1 3/8" | Water Elev. —
Date Completed 7-15-70 | Casing: Length 50' | Dia 3 1/2"
Boring No. B-8 | Station & Offset 840+99, 30' Lt. (Forward Abutment) | Surface Elev. 870.2'

Elev.	Depth	Std. Pen. (N)	Rec. ft.	Loss ft.	Description	Sample No.	% Agg.	% C.S.	% F.S.	% Silt	% Clay	L.L.	P.I.	W.C.	SHTL Class.
870.2	0														
	2														
867.7	4	8/10			Brownish-Gray Sandy Silt	1	0	13	24	36	27	NP	NP	16	A-4a
865.2	6	17/15			Brown Sandy Clay	2	14	8	16	26	36	26	11	23	A-6a
	8														
860.2	10	17/6			Brownish-Gray Silty Gravelly Sand, Trace of Organic	3	26	13	30	16	15	NP	NP	51	A-2-4
	12														
	14														
855.2	16	7/4			Gray Silty Sand	4	0	1	62	21	16	NP	NP	21	A-4a
850.2	18														
	20	8/4			Gray Silty Sand	5	13	24	41	9	13	NP	NP	19	A-3a
847.7	22	4/3			Gray Silty Clay	6	5	9	1	16	69	36	17	31	A-6b
845.2	24	3/4			Gray Silty Clay	7	0	1	0	32	67	38	19	26	A-6b
842.7	26	3/4			Gray Silty Clay	8	0	1	0	30	69	34	16	25	A-6b
840.2	28	3/4			Gray Silty Clay	9	0	0	0	26	74	38	16	34	A-6b
837.7	30	3/4			Gray Silty Clay	10	0	0	0	17	83	39	16	27	A-6b
835.2	32	3/4			Gray Silty Clay	11	0	0	0	11	89	43	16	30	A-7-6
830.2	34														
	36														
	38														
	40	10/11			Gray Sandy Gravelly Silt	12	36	7	15	28	14	NP	NP	16	A-4a
	42														
825.2	44														
	46	50 (0.2')			No Sample Recovered - Cobbles(Driller's Det.)		V	I	S	U	A	L			
820.2	48														
	50	50 (0.6')			Gray Gravelly Sandy Silt	13	17	5	15	41	22	NP	NP	12	A-4a
	52														
815.2	54	50 (0.2')			TOP OF ROCK Gray Weathered Shale	14	43	6	5	22	24	27	8	11	Visual
815.0	56														
	58		4.3	0.7	Siltstone, gray, firm with some thin intervals of gray fine-grained sandstone, broken and jointed. Core Loss 11%.										
	60														
808.7	62		5.0	0.0	Shale, gray, firm, arenaceous, broken. No Core Loss.										
805.2	64				BOTTOM OF BORING										

OHIO DEPARTMENT OF HIGHWAYS
TESTING LABORATORY
1620 WEST BROAD STREET, COLUMBUS 23, OHIO

STRUCTURE FOUNDATION INVESTIGATION
BRIDGE NO. TRU-422-1590
OVER MOSQUITO CREEK
SEC. TRU-422-14.67

BORING DATA

TYPED BY	CHECKED BY, REVIEWED BY	DATE
S. A. J.	R. D. R. G. P. H.	8/3/70

Test Location No. ____
Station & Offset ____
Surface Elev. ____ Water Elev. ____
Piling ____
Hammer ____
Formula ____
Reference ____
Rod Condition ____

B76 B72 B68 B64 B60 B56 B52 B48 B44 B40 B36 B32 B28 B24 B20

10 20 30 40 50 60 70 80 90 100
Capacity "R" in Thousands of Pounds

Test Location No. ____
Station & Offset ____
Surface Elev. ____ Water Elev. ____
Piling ____
Hammer ____
Formula ____
Reference ____
Rod Condition ____

10 20 30 40 50 60 70 80 90 100
Capacity "R" in Thousands of Pounds

Test Location No. ____
Station & Offset ____
Surface Elev. ____ Water Elev. ____
Piling ____
Hammer ____
Formula ____
Reference ____
Rod Condition ____

10 20 30 40 50 60 70 80 90 100
Capacity "R" in Thousands of Pounds

Test Location No. ____
Station & Offset ____
Surface Elev. ____ Water Elev. ____
Piling ____
Hammer ____
Formula ____
Reference ____
Rod Condition ____

10 20 30 40 50 60 70 80 90 100
Capacity "R" in Thousands of Pounds

Test Location No. 1
Station & Offset B39+21.21'RT REAR ABUTMENT
Surface Elev. B71.2 Water Elev. ____
Piling ____
Hammer ____
Formula ____
Reference ____
Rod Condition GOOD

TEST ROD

B68 B64 B60 B56 B52 B48 B44 B40 B36 B32 B28 B24 B20

10 20 30 40 50 60 70 80 90 100
Capacity "R" in Thousands of Pounds

Test Location No. 2
Station & Offset B39+23.38'LT REAR ABUTMENT
Surface Elev. B70.3 Water Elev. ____
Piling ____
Hammer ____
Formula ____
Reference ____
Rod Condition GOOD

TEST ROD

10 20 30 40 50 60 70 80 90 100
Capacity "R" in Thousands of Pounds

Test Location No. 7
Station & Offset B20+85.22'RT FORWARD ABUTMENT
Surface Elev. B69.8 Water Elev. ____
Piling ____
Hammer ____
Formula ____
Reference ____
Rod Condition GOOD

TEST ROD

10 20 30 40 50 60 70 80 90 100
Capacity "R" in Thousands of Pounds

Test Location No. 8
Station & Offset B40+16.38'LT FORWARD ABUTMENT
Surface Elev. B67.4 Water Elev. ____
TRU-422-(14.70)(16.38) 4/4
Piling ____
Hammer ____
Formula ____
Reference ____
Rod Condition GOOD

TEST ROD

10 20 30 40 50 60 70 80 90 100
Capacity "R" in Thousands of Pounds

4/4

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

STRUCTURE FOUNDATION INVESTIGATION
BRIDGE NO. TRU-422-1590
OVER MOSQUITO CREEK
SEC. TRU-422-1467

DRIVE ROD PENETRATION RESISTANCE DATA

PLOTTED BY	CHECKED BY	REVIEWED BY	DATE
R. C.	R. D. R.	G. P. H.	8/3/70