MICROFILMED
JUL 23 1985

STATE OF OHIO
DEPARTMENT OF TRANSPORTATION

CALCULATED BY Am DATE 6-27-79
CHECKED BY D. M DATE 4-22-80

MUS-70-10.80
GUE-70-3.17

OHIO | FHWA REGION 5 | FEDERAL PROJECT | 1 / 26

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OCT 19 1987

MUS-70-10.80
CITY OF ZANESVILLE
FALLS TOWNSHIP
MUSKINGUM COUNTY

GUE-70-3.17
WESTLAND TOWNSHIP
GUERNSEY COUNTY

LIMITED ACCESS

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

CONVENTIONAL SIGNS

County Line

Corporation Line or

Center Line 352 353

Utility Poles: Control Center △, Pull Box ■, Light ●

INDEX OF SHEETS

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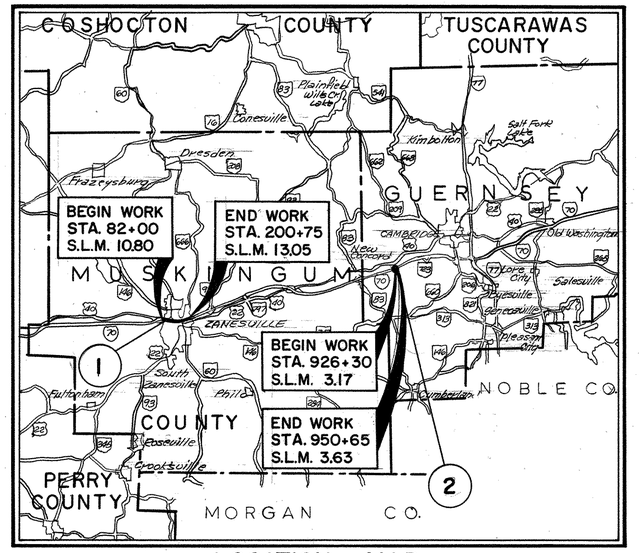
SHEET 25 IS DELETED



LOCATION MAP

SCALE IN MILES
0 6 12 18 24

Portion to be improved
State & Federal Routes

SCALES

Plan PART 1 0 100' 200' 400'

Plan PART 2 0 50' 100'

1979 SPECIFICATIONS

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

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

F-14

48 HOURS BEFORE YOU DIG CALL 1-800-362-2764 (614) 221-6704 OHIO UTILITIES PROTECTION SERVICE NON-MEMBERS MUST BE CALLED DIRECTLY

LINE DATA

Length of Project Parts 1, 2 — 0.00 Lin. Ft. or 0.000 Miles

Part 1 Zanesville MUS-70-10.80
- Begin Work Sta. 82+00
- End Work Sta. 200+75
- Length of Work 11875.00 Lin. Ft. or 2.249 Miles

Part 2 Weigh Station GUE-70-3.17
- Begin Work Sta. 926+30
- End Work Sta. 950+65
- Length of Work 2435.00 Lin. Ft. or 0.461 Mile

SUPPLEMENTAL SPECIFICATIONS		
839	11-25-70	

SUPPLEMENTAL PRINTS OF STANDARD CONSTRUCTION DRAWINGS					
HL-1	9-6-73	MC-3	6-1-73		
HL-2	7-27-73				
HL-3	7-27-73				
HL-8	1-21-76				
HL-9	3-22-77				
HL-10	6-1-79				
HL-12	4-6-73				
HL-15	1-21-76				
HL-16	4-6-73				

Approved Robert C. Reef
Date 4/24/80 District Deputy Director of Transportation

Approved
Date Engineer, Bureau of Bridges and Structural Design

Approved C. Clark Street
Date 4/29/80 Chief Engineer, Operations

Approved David S. Weir
Date 4-29-80 Director, Department of Transportation

Plan Prepared By:
DISTRICT NO. 5
OHIO DEPARTMENT OF TRANSPORTATION

DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED:

DIVISION ADMINISTRATOR DATE

Project: MUS-70-10.80 GUE-70-3.17
Date of Letting 19__, Contract No.

LD 0300 Rev. 11-1-78

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GENERAL NOTES

CALCULATED BY Rm DATE 6-27-79
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ESTIMATED QUANTITIES:

An estimated quantity of item 605, 4 inch shallow pipe underdrains is provided in the general summary for use as directed by the Engineer in providing positive drainage for pull boxes in fill areas. It is intended that all pull boxes in these areas be provided with such drainage, provided the length of under drain [illegible] cessary to obtain a satisfactory outfall does not exceed 20 feet approximately.

Any excavation, backfill, & connection of the underdrain to the pull box shall be incidental to this item.

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.

	Item 605 4" Shallow Pipe Underdrains Lin.Ft.
Part 1	600 *
Part 2	300
Total	900

* Any light base pull boxes which will contain cable splices shall also be drained.

ITEM 625 PULL BOX, CONCRETE, AS PER PLAN:

This item includes supplying and installing a pull box as per standard Drawing HL-10. This item also includes removing the existing pull box as per Item 202.

Payment shall be per each "Item 625 Pull Box, Concrete," as per plan.

ITEM 625 REPAIR OF LIGHT POLE FOUNDATION:

The work shall consist of repairing, where directed an existing concrete light pole foundation by furnishing and installing a steel bearing plate including four steel nuts with washers, as shown on sheet 3 and in accordance with applicable section of 519.06. Fifteen (15) each "Item 625 Repair of Light Pole Foundation" are included in the General Summary for this purpose. Quantities shall not be ordered unless directed by the Engineer.

Payment for this item shall be per each "Item 625 repair of Light Pole Foundation."

CONSTRUCTION PLANS:

Reference is hereby made to the following designated plans for former construction project portions of which cover areas included in this proposed improvement.

Copies of these plans are on file either at the District 5 Office of the Department of Transportation or at the Office of Administrator of Contract Sales, Columbus, Ohio

36' (60) MUS-40-10.65
294 (60) MUS-40-11.52
280 (61) MUS-40-11.78
276 (65) MUS-70-26.86 GUE-70-0.00
430 (76) MUS-70-19.94-13.05

CONTROL CENTERS & SERVICE POLES WORK REQUIRED:

All equipment, material, and wiring shall be per HL-15, HL-16, item 625 & sheet 3 as applicable.

Part 1 Zanesville

1A,B,C-C The existing control center shall be removed and a new control center shall be installed on the existing service pole, and reconnect exist ground rod.

2A,B,C,D-C The existing control center and service pole shall be removed & a new control center shall be installed on a new service pole located on the opposite side of the Right of Way Fence at sta. 264+00 Ramp E-90' Rt±.

5A,B,C-C The existing control center shall be removed and a new control center shall be installed on the existing service pole & reconnect ground rod.

8A,B-C No work Required.

9A,B-C The existing control center shall be removed and a new control center shall be installed on the existing service pole, and reconnect exist ground rod.

Part 2 Gue I-70 Weigh Station

1-C, 2-C The existing service pole and control center shall be removed and a new control center on a new service pole located at station 37+10, Ramp B-60' Lt. shall be installed.

All work on the Control Centers shall be included in one lump sum price bid for item 625 Control Centers.

TELEPHONE PULL BOXES:

The contractor shall supply and install the telephone pull boxes at the Weigh Station but the Telephone Company shall disconnect and reconnect the wiring in the pull boxes. Pull boxes shall be built as per std. Drwg. HL-10 and paid for as "Item 625 Pull box, Concrete, As Per Plan." (See Note this sheet.)

ITEM 625 REMOVE & REERECT LIGHT POLE:

This item shall include all labor, equipment and materials necessary to perform the following work:

The contractor shall disconnect the wiring and the anchor bolts and remove the light pole from its foundation. Care shall be taken not to damage the luminaire and exist AT-X Transformer Base.

After rewiring with pole and bracket cable the pole shall be reset on the existing AT-X transformer base. This item shall also include reconnecting the existing ground rod and providing the compression connector as shown on this sheet. The wiring at light pole foundations, pole and bracket cable and connector kits, are separate pay items.

Payment for this item shall be per each "Item 625 Remove & Reerect Light Pole."

ITEM 202 REMOVE SERVICE POLE:

This item shall include removing the service pole to at least a foot below the ground line and backfilling the hole. The pole shall become the property of the Contractor and be removed by him.

Payment shall be per each "Item 202 Remove Service Pole."

THE POWER SUPPLYING AGENCIES FOR THIS PROJECT ARE:

Part 1 Zanesville - Ohio Power Company
113 N 5th St. 614-452-5461
Zanesville, Ohio 43701

Part 2 Gue I-70 Weigh Station Gue-Mus Electric Co Operative Inc.
175 Liberty 614-826-7661
New Concord, Ohio 43762

Telephone service for the weigh station is provided by:

General Telephone Company
921 Steubenville Av. 614-439-5011
Cambridge, Ohio 43725

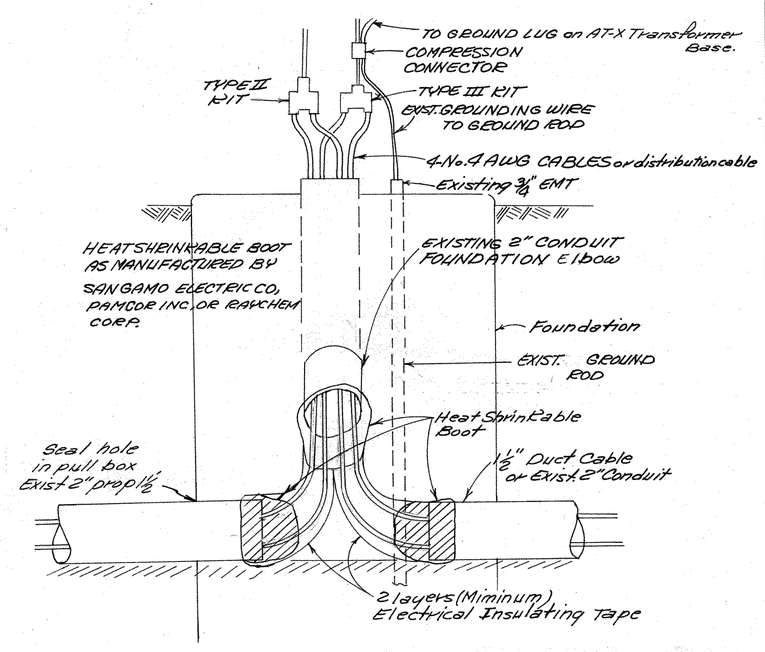
Voltage - Zanesville 240 Volts, GUE-70 - 480 Volts

ITEM 202 REMOVE CONTROL CENTER:

This item shall include removing the control center from the service pole and storing it on the job for removal by state forces. (The Ohio Power Company owns & shall pick up the control centers in Zanesville)

This item includes removing any accessoies as listed under Control Centers & Service Poles.

Payment for this item shall be per each Item 202 Remove Control Center.



ITEM SPECIAL WIRING AT LIGHT POLE FOUNDATION
(SEE GENERAL NOTE SHEET 4.)

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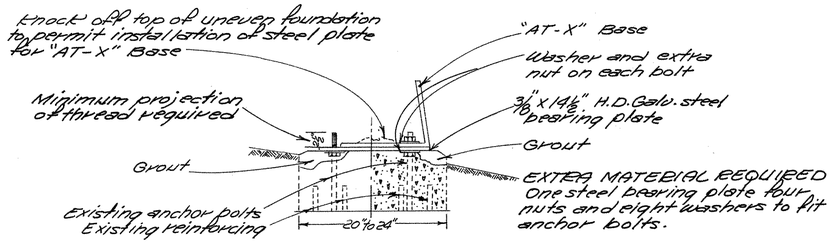
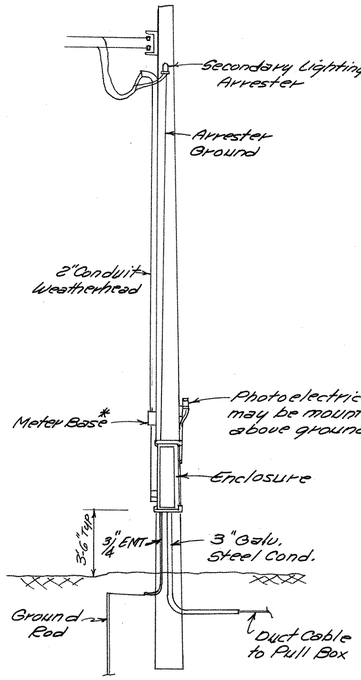
FOUNDATION
Where field inspection reveals that top of the existing light pole foundation has disintegrated proceed as follows:



ITEM 625 REPAIR OF LIGHT POLE FOUNDATION

See Note Sheet 2



For other details see std. Constr. drwg. HL-15, HL-16, & Sheet 2.

* Meter base may be left on existing pole with new disconnect switch replacing existing control center. See Control Centers & Service Poles sheet 2.

ITEM 625 CONTROL CENTER & SERVICE POLE

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ITEM SPECIAL WEIGH STATION SIGN REMOVAL:

This item shall include removing the bulb matrix mechanism from the aperture in the weigh station sign and storing it on the job for removal by State forces. The weigh station sign and supports shall not be disturbed.

Payment shall be per each Item Special Weigh Station Sign Removal.

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.

ITEM 614 MAINTAINING TRAFFIC:

Traffic shall be maintained as per drawing C-12 of the "Ohio Manual of Uniform Traffic Control Devices for Streets and Highways"

When the conduit under Ramp "O" at Underwood street in Zanesville is being located & extended, traffic shall be restricted to half width pavement and the shoulder.

Wing Barrier loades as per Standard Construction Drawing MC-3 shall be erected on the mainlines with OC-4 or OC-8 signs attached. All ramps and cross roads shall also be signed with OW-12B or OC-8 where applicable.

Payment shall be per lump sum Item 614 maintaining traffic.

ITEM SPECIAL WIRING AT LIGHT POLE FOUNDATION:

This item shall include supplying and installing the material detailed on sheet 2. The conductors shall be insulated from the duct-cables going into the foundation conduit ell's by the combination of heat shrinkable material and electrical insulating tape.

The No 4 AWG cable shall run continuously through the foundation ell and only the duct shall be spliced as shown. Connector Kits shall be a separate pay item.

Payment shall be per each Item Special Wiring at Light Pole Foundation.

ITEM SPECIAL WEIGH STATION SIGN:

DESCRIPTION

This specification details minimum standards for an electro-mechanical changeable message traffic control sign capable of displaying, upon operator command either an OPEN message or a CLOSED message. This sign shall be a component part of the sign system advising motorists of the open or closed status of a roadside Weigh Station.

DESIGN - GENERAL

The changeable message sign furnished under this specification shall be so designed as to be suitable for installation in such a position that both the OPEN or CLOSED message will appear in an aperture out in a larger sign face. Each sign shall be complete with two sign faces and electro-mechanical drive mechanism.

Sign legend change shall be accomplished by movement of hinged panels mounted on a vertical axis powered by the electro-mechanical drive mechanism, which shall be an integral part of each sign.

COMPONENT PARTS

SIGN BLANKS AND MOVABLE PANELS

The sign blank and movable panels shall be constructed of 6061-T6 aluminum with a minimum thickness of 0.125 inches. The blank and panels shall be degreased and etched or treated with a light, tightly amorphous chromate conversion coating free of any powdery residue. The sign blank and panels shall form an essentially plane surface measuring 24" high and 72" wide when the sign reads either OPEN or CLOSED. The existing weigh station sign apertures shall be enlarged under this item to accommodate the proposed changeable message sign.

SIGN FACE

The sign face (s) shall be fabricated with reflectorized sheeting conforming to the specification entitled "Encapsulated Lens Reflective Sheeting for Traffic Control Sign" ("SCOTCHLITE" Brand High Intensity Grade Reflective Sheeting). The sign face shall be 24" high and 72" wide. Background shall be green, and the legend and border shall be silver. Letter sizes shall be 15" high. Letter styles shall be Series D for OPEN legend, and series C for CLOSED legend. Border shall be 5/8" with 6" radius corners.

SIGN FRAME

The sign frame shall be of welded aluminum construction. It shall be constructed from .250" x 1.50" x 1.50" 6061-T6 aluminum angle. The sign frame shall be drilled with 3/8" holes to provide for the ready attachment of two mounting brackets to be located approximately 24" from either end of the sign and approximately midway between top and bottom of the sign.

MOUNTING BRACKETS

Each sign shall be equipped with two mounting brackets that will readily bolt to the sign frame and to the support structure with 5/16" bolts. The mounting brackets shall be of such a length so as to provide clearance between rearmost portion of the sign and a vertical plane.

WIRING MECHANISM

The wiring mechanism shall consist of a chain driven, cam driven, self-locking device with positive drive on both cycles with spring override. The motor shall be a magnetic brake, non-reversing gear reduction type, 115 V, 3 ampere, developing minimum torque of 300 inch pounds at 6-8 R.P.M.

The motor output shaft shall provide positive drive to at least 4 sprockets in both sprocket movement directions. Each sprocket shall drive one panel 180 degrees through a spiral torsion spring connection. The spring shall have tension at all times. All working parts shall be cadmium or nickel plated steel. Micro switch shall be 115 volt, 15 amp. single pole, double throw.

The operating mechanism shall be enclosed in a corrosion resistant box constructed of 3003-H-14 aluminum 0.125 inch thick with a housing cover of 3003-H-14 aluminum .060 thick. The motor shall be enclosed in a galvanized steel box positioned below the top panel and behind the sign blank.

OPERATING CONDITIONS

The sign shall weigh no more than 95 lbs. The sign shall operate on 115 V, 60 Hz, 3 amp. power. Sign mechanism shall not be damaged by forcing panels open or closed within normal 180° operating range.

Sign shall operate under all environmental conditions within a temperature range of -40°F to +150°F Heavy Ice or snow accumulations may temporarily obstruct panel movement to prevent sign operation, but shall not damage motor or drive mechanism.

Sign shall not normally require periodic lubrication, cleaning, or seasonal adjustment.

Potential sources are:
Downing Manufacturing Co.
4525 South 34 West Ave.
Tulsa, Oklahoma 74107
918-446-6239

Winks Matic Signal Co.
659 Miller Rd.
Avon Lake, Ohio 44012
216-933-2122

Tele-Spot Systems
521 5th Ave
New York, N.Y. 10017
212-687-0501

Payment shall be per each Item Special Weigh Station Sign

ITEM 625 CABLE SPLICING KIT:

The inline and "Wye" splicing kits shall be poured waterproof type and in accordance with applicable section of 713.15 and be able to withstand the Hi Pot-test described in Supplemental Specification 839.

ITEM 625 No 4 AWG, 600 VOLT DISTRIBUTION CABLE, AS PER PLAN:

This item shall include the removal of the existing cable and it satisfactory disposal as discribed under item 202.

Payment shall be per Lin. Ft. Item 625 No 4 AWG. 600 Volt distribution Cable, As Per Plan.

FIELD OFFICE:

The Contractor shall provide a suitable field office having a minimum of 300 sq. ft. of floor space.

STORAGE OF EQUIPMENT:

For safety purpose no equipment, material or private vehicles shall be parked or stored in the median or within thirty (30) feet of the outside edge of pavement unless behind guard rail.

MAINTAINING LIGHTS DURING NIGHT HOURS:

The electrical work shall be performed so that no more than one circuit will be out of service overnight at one time. Electrical power to the remainder of the circuits and lighted signs shall be maintained. Any temporary connections shall meet the National Electrical Safety Code. The cost of providing temporary wiring to accomplish this shall be included in the unit bid price of the respective items.

COORDINATION:

The electrical energy for this project is presently being supplied by The Ohio Power Co. 113 N 5th St. Zanesville, Ohio 43701. The Contractor should contact this Company before installing any light poles, trenching or control centers or related work so that he may coordinate his proposed activities with those of the Company and provide as little disruption to present service as possible. The Company may also assist the Contractor in location of existing buried lighting cable so that it might not be severed by the installation of cable, and other underground contruction features as noted elsewhere in the General Notes.

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ITEM	SHEET NUMBER 2	4	15	19	ITEM	QUANT.	UNIT	DESCRIPTION
								LIGHTING TYPE CODE Y030
625			25885	4935	625	30820	Lin.Ft.	Trench, 24" Deep
625			29317	4106	625	33423	Lin.Ft.	1½" Duct-Cable with 2 No. 4 AWG, 600-Volt Cables
625			16228	1728	625	17956	Lin.Ft.	No. 4 AWG, 600 Volt Distribution Cable, As Per Plan
625			Lump	Lump	625	Lump	Lump	Service Pole
625			Lump	Lump	625	Lump	Lump	Control Center
859				3669	859	3669	Lin.Ft.	Signal Cable, 4 Conductor No. 10 AWG
625				40	625	40	Each	Pull Box, Concrete, As Per Plan
625			1	3	625	4	Each	Ground Rod
625			100	34	625	134	Each	Cable Splicing Kit (Inline)
625			156	20	625	176	Each	Connector Kit, Type II
625			156	20	625	176	Each	Connector Kit, Type III
625			70	26	625	96	Each	Cable Splicing Kit WYE
625			5		625	5	Each	Type AT-X Transformer Base
625			156	20	625	176	Each	Remove & Reerect Light Pole
202			1	1	202	2	Each	Remove Service Pole
202			4	1	202	5	Each	Remove Control Center
605	900				605	900	Lin.Ft.	4" Shallow Pipe Underdrains
Spec.			156		Spec.	156	Each	Wiring at Light Pole Foundation
625	15				625	15	Each	Repair of Light Pole Foundation
625			14106	1700	625	15806	Lin.Ft.	No. 10 AWG, Pole and Bracket Cable
839					839	Lump	Lump	High Voltage Test
								TRAFFIC CONTROL
Spec.				2	Spec.	2	Each	Weigh Station Sign
Spec.				2	Spec.	2	Each	Weigh Station Sign Removal
614		Lump			614	Lump	Lump	Maintaining Traffic
619		Lump			619	Lump	Lump	Field Office
624					624	Lump	Lump	Mobilization

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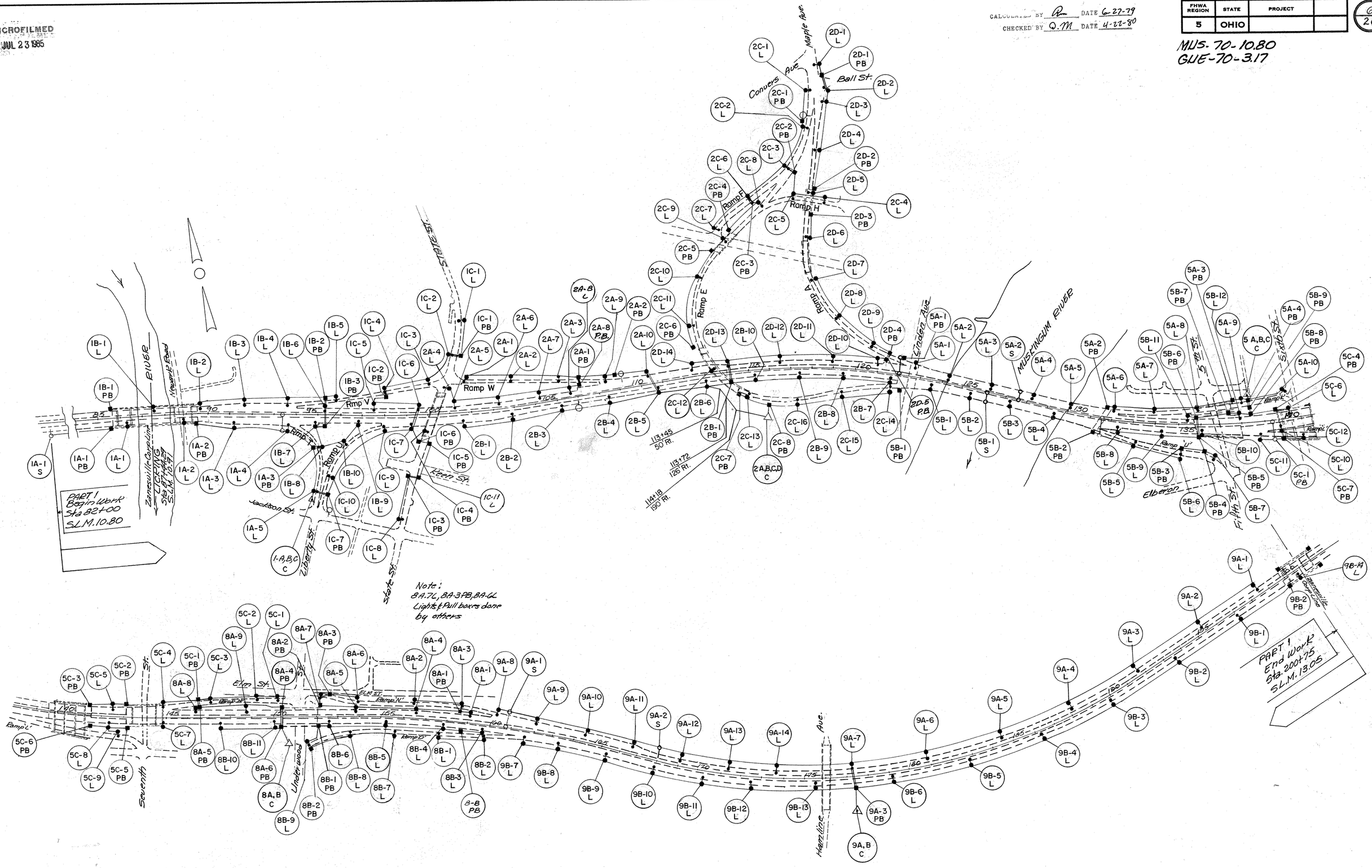

PART - I ZANESVILLE

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LIGHTING SUB - SUMMARY

ZANESVILLE

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Location	Mark	Side	Station to Station	Item 625									Item 202		Special	Item 625						
				Trench, 24" Deep	1½" Duct Cable with 2 №4 AWG 600 Volt Cables	№4 AWG, 600 Volt Distribution Cable, As Per Plan		Remove & Reerect Light Pole	Control Center		IAT-X Transformer Base			Remove Control Center	Wiring at Light Pole Foundation	Connector Kit Type —			Cable Splicing Kit		№10 AWG Pole & Bracket Cable
																	II	III	Inline	WYE	
				Lin. Ft.	Lin. Ft.	Lin. Ft.		Each	Lump		Each			Each	Each		Each	Each	Each	Each	Lin. Ft.
I-70	1A-1-S	Rt.	82+00																2		
			82+00 - 85+72	372	382																
I-70	1A-1-PB	Rt.	85+72																2		
			85+72 - 86+27			130															
I-70	1A-1 L	Rt.	86+27					1							1		1	1			95
			86+27 - 88+92			550															
I-70	1A-2 L	Rt.	88+92					1							1		1	1			95
			88+92 - 89+59			154															
I-70	1A-2PB	Rt	89+59																2		
			89+59 - 91+20	161	171																
I-70	1A-3L	Rt.	91+20					1							1		1	1			95
			91+20 - 3+60	240	260																
Ramp T	1A-9L	Rt.	3+60					1							1		1	1		2	95
			3+60 - 5+28	168	178																
Ramp T	1A-3PB	Rt.	5+28																2		
			5+28 - 7+50	222	464																
Ramp T	1A-5L	Rt.	7+50					1							1		1	1	2		85
			7+50 - 7+88	38	144																
Ramp T	1A, 8C-C	Rt.	7+88						Lump					1							
I-70	1B-1PB	Lt.	85+68																2		
			85+68 - 87+60			404															
I-70	1B-1L	Lt.	87+60					1							1		1	1			95
			87+60 - 89+60			420															
I-70	1B-2L	Lt.	89+60					1							1		1	1			95
			89+60 - 91+65	205	215																
I-70	1B-3L	Lt.	91+65					1							1		1	1			95
			91+65 - 8+40	190	200																
Ramp U	1B-4L	Rt.	8+40					1							1		1	1			95
			8+40 - 6+69	171	181																
Ramp V	1B-2PB	Rt.	6+69																	2	
Ramp V	1B-5L	Rt.	6+20					1							1		1	1			85
			6+20 - 6+69	49	59																
			6+69 - 95+35			80															
I-70	1B-6L	Lt.	95+35					1							1		1	1			95
			95+35 - 95+33			206															
I-70	1B-3PB	Rt.	95+33																2		
			95+33 - 95+07	26	36																
I-70	1B-7L	Rt.	95+07					1							1		1	1			95
			95+07 - 5+30	93	103																
Ramp T	1B-8L	Lt.	5+30					1							1		1	1		2	77
I-70	1B-9L	Rt.	96+93					1							1		1	1			95
			96+93 - 6+11	105	115																
Ramp U	1B-10L	Lt.	6+11					1							1		1	1			77
			6+11 - 5+30	113	123																
Ramp T	1A-3PB-1B-8L	Rt.&Lt.	5+30 - 5+28			80															
Blue St.	1C-1L	Rt.	63+35					1			1				1		1	1			85
			63+35 - 61+73	162	172																
Blue St.	1C-1PB	Rt.	61+73																2		
			61+73 - 61+75			112															
Blue St.	1C-2L	Lt.	61+75					1			1				1		1	1			85
			61+75 - 1+80	166	176																
Ramp U	1C-3L	Rt.	1+80					1							1		1	1			85
			1+80 - 4+00	220	230																
Ramp U	1C-4L	Rt.	4+00					1							1		1	1			85
Sub- Totals				2701	3209	2136		19	Lump		2			1	19		19	19	16	6	1709

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LIGHTING SUB - SUMMARY

ZANESVILLE

Location	Mark	Side	Station to Station	Item 625 Trench, 24" Deep	Item 625 1½" Duct Cable with 2 No. 4 AWG 600 Volt Cables	Item 625 No. 4 AWG, 600 Volt Distribution Cable, As Per Plan	Item 625 [illegible]	Item 625 Service Pole	Item 625 Control Center	Item 625 Ground Rod	Item 625 AT-X Transformer Base	Item 625 Remove & Reset Light Pole	Item 202 Remove Service Pole	Item 202 Remove Control Center	Special Wiring at Light Pole Foundation	Item 625 Connector Kit Type ___			Item 625 Cabe Splicing Kit			Item 625 No. 10 AWG Pole & Bracket Cable
																	II	III		Inline	W&E	
				Lin. Ft.	Lin. Ft.	Lin. Ft.		Lump	Lump	Each	Each	Each	Each	Each	Each		Each	Each		Each	Each	Lin. Ft.
			4+00 - 3+98			88																
Ramp U	1C-2PB	Lt.	3+98																	2		
			3+98 - 97+47	71	81																	
I-70	1C-5L	Lt.	97+47									1			1		1	1				95
			97+47 - 99+59	212	222																	
I-70	1C-6L	Lt.	99+59									1			1		1	1				95
			99+59 - 99+30			238																
I-70	1C-7L	Rt.	99+30									1			1		1	1			2	95
State St.	1C-8L	Lt.	53+70								1	1			1		1	1				85
			53+70 - 55+84	214	224																	
State St.	1C-3PB	Lt.	55+84																	2		
			55+84 - 55+84			116																
State St.	1C-4PB	Rt.	55+84																	2		
			55+84 - 57+49	165	175																	
State St.	1C-5PB	Rt.	57+49																	2		
			57+49 - 57+49			116																
State St.	1C-6PB	Lt.	57+49																		2	
			57+49 - 99+30	76	86																	
			99+30 - 7+95	136	146																	
Ramp U	1C-9L	Rt.	7+95									1			1		1	1				95
			7+95 - 9+30	365	375																	
Ramp U	1C-10L	Rt.	9+30									1			1		1	1				85
			9+30 - 7+50	84	94																	
Ramp T	1C-7PB	Lt.	7+50																		2	
			7+50 - 7+50			144																
State St.	1C-11L	Lt.	57+49 - 58+00			124						1			1		1	1				85
Ramp W	2A-1L	Rt.	18+16									1			1		1	1				85
			18+16 - 16+03	213	223																	
Ramp W	2A-2L	Rt.	16+03									1			1		1	1				85
			16+03 - 13+78	225	235																	
Ramp W	2A-3L	Rt.	13+78									1			1		1	1				85
			13+78 - 12+79	99	109																	
Ramp W	2A-1PB	Rt.	12+79																		2	
Blue Ave	2A-4L	Rt.	60+18									1			1		1	1				85
			60+18 - 101+25	77	87																	
I-70	2A-5L	Lt.	101+25									1			1		1	1				95
			101+25 - 103+23	198	208																	
I-70	2A-6L	Lt.	103+23									1			1		1	1				95
			103+23 - 105+21	198	208																	
I-70	2A-7L	Lt.	105+21									1			1		1	1				95
			105+21 - 107+19	198	218							1			1		1	1				95
I-70	2A-8L	Lt.	107+19																	2		
			107+19 - 12+79			108																
			12+79 - 11+52	127	137																	
Ramp W	2A-9L	Rt.	11+52									1			1		1	1				95
			11+52 - 109+15	69	79																	
I-70	2A-2PB	Lt.	109+15																		2	
			109+15 - 9+54	135	145																	
Ramp W	2A-10L	Rt.	9+54									1			1		1	1				95
			9+54 - 110+74			238																
			110+74 - 113+03	See Next Sheet 2B-5L to 2B-6L																		
			113+03 - 26+00	See Next Sheet 2B-6L to 2ABCD-C																		
Ramp E	2ABCD-C	Rt.	26+00 - 86' Rt.					Lump	Lump	1			1	1								
I-70	2B-1L	Rt.	101+60									1			1		1	1				95
			101+60 - 103+88	228	238																	
Sub - Totals				3090	3290	1172		Lump	Lump	1	1	18	1	1	18		18	18		10	10	1640

MICROFILMED
JUL 23 1985

CALCULATED BY Rm DATE 6-27-79
CHECKED BY DM DATE 4-22-80

FHWA REGION	STATE	PROJECT	
5	OHIO		

MUG-70-10.80
GUE-70-3.17

LIGHTING SUB-SUMMARY

ZANESVILLE

				Item 625									Item 202		Special	Item 625						
Location	Mark	Side	Station to Station	Trench, 24" Deep	1½" Duct Cable with 2 No.4 AWG 600 Volt Cables	No.4 AWG 600 Volt Distribution Cable, As Per Plan			Remove & Reerect Light Pole			Conduit 2" As Per Plan	Remove Service Pole	Remove Control Center	Wiring at Light Pole Foundation	Connector Kit Type ___			Cable Splicing Kit			No. 10 Pole & Bracket Cable
																	II	III		Inline	W&E	
				Lin. Ft.	Lin. Ft.	Lin. Ft.			Each						Each		Each	Each		Each	Each	Lin. Ft.
1-70	2B-2L	Rt.	103+88						1						1		1	1				95
			103+88 - 106+17	229	239																	
1-70	2B-3L	Rt.	106+17						1						1		1	1			2	95
			106+17 - 108+45	228	238																	
1-70	2B-4L	Rt.	108+45						1						1		1	1				95
			108+45 - 110+74	229	239																	
1-70	2B-5L	Rt.	110+74						1						1		1	1			2	95
			110+74 - 113+03	229	498																	
1-70	2B-6L	Rt.	113+03						1						1		1	1		4	2	95
1-70	2B-7L	Rt.	121+62						1						1		1	1				95
			121+62 - 119+52	210	220																	
1-70	2B-8L	Rt.	119+52						1						1		1	1				95
			119+52 - 117+42	210	220																	
1-70	2B-9L	Rt.	117+42						1						1		1	1				95
			117+42 - 115+32	210	220																	
1-70	2B-10L	Rt.	115+32						1						1		1	1				95
			115+32 - 114+14	118	128																	
1-70	2B-1PB	Rt.	114+14																	4		
			114+14 - 113+03	111	242																	
			113+03 - 26+00	372	1146																	
Ramp E	2C-1L	Rt.	7+95						1						1		1	1				77
			7+95 - 9+30	135	145																	
Ramp F	2C-1PB	Rt.	9+30																		2	
			9+30 - 10+06	76	86																	
Ramp F	2C-2L	Rt.	10+06						1						1		1	1				77
			10+06 - 12+00	194	204																	
Ramp F	2C-3L	Rt.	12+00						1						1		1	1			2	77
Ramp H	2C-4L	Rt.	11+14						1						1		1	1				85
			11+14 - 12+75	161	171																	
Ramp H	2C-5L	Rt.	12+75						1						1		1	1				85
			12+75 - 12+00	90	100																	
Ramp F	2C-2PB	Lt.	12+00																	2		
			12+00 - 12+00			126																
			12+00 - 14+10	210	220																	
Ramp F	2C-6L	Rt.	14+10						1						1		1	1			2	77
Ramp F	2C-7L	Rt.	16+20						1						1		1	1				77
			16+20 - 14+10	210	220																	
			14+10 - 14+10			64																
Ramp F	2C-3PB	Lt.	14+10																	2		
			14+10 - 14+12	29	39																	
Ramp E	2C-8L	Rt.	14+12						1						1		1	1				85
			14+12 - 15+61	149	159																	
Ramp E	2C-4PB	Rt.	15+61																	2		
			15+61 - 16+30			158																
Ramp E	2C-9L	Rt.	16+30						1						1		1	1				85
			16+30 - 17+52			264																
Ramp E	2C-5PB	Rt.	17+52																	2		
			17+52 - 18+52	100	110																	
Ramp E	2C-10L	Rt.	18+52						1						1		1	1				85
			18+52 - 20+72	220	230																	
Ramp E	2C-11L	Rt.	20+72						1						1		1	1				85
			20+72 - 21+75	103	113																	
Ramp E	2C-6PB	Rt.	21+75																	2		
			21+75 - 22+93			256																
Ramp E	2C-12L	Rt.	22+93						1						1		1	1				85
			22+93 - 24+69			372																
Sub-Totals				3823	5187	1240			21						21		21	21		18	12	1835

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FHWA REGION	STATE	PROJECT	
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MUS-70-10.80
GUE-70-3.17

LIGHTING SUB-SUMMARY

ZANESVILLE

				Item 625									Item 202		Special	Item 625						
Location	Mark	Side	Station to Station	Trench, 24" Deep	1½" Duct Cable with 2 No.4 AWG 600 Volt Cables	No.4 AWG 600 Volt Distribution Cable As Per Plan			Remove & Reerect Light Pole		AT-X Transformer Base				Wiring at Light Pole Foundation	Connector Tape ___		Kit	Cable Splicing Kit			No.10 Pole & Bracket Cable
																	II	III		Inline	WYE	
				Lin. Ft.	Lin. Ft.	Lin. Ft.			Each		Each				Each		Each	Each		Each	Each	Lin. Ft.
Ramp E	2C-7PB	Rt.	24+69																	2		
			24+69 - 25+12	43	53																	
Ramp E	2C-13L	Rt.	25+12						1						1		1	1				85
			25+12 - 26+03	91	101																	
Ramp E	2C-8PB	Rt.	26+03																		2	
Ramp E	2C-14L	Rt.	31+72						1						1		1	1				85
			31+72 - 29+51	221	231																	
Ramp E	2C-15L	Rt.	29+51						1						1		1	1				85
			29+51 - 27+32	219	229																	
Ramp E	2C-16L		27+32						1						1		1	1				85
			27+32 - 26+03	129	139																	
			26+03 - 26+00	119	129																	
Ramp A	2D-1L	Rt.	26+25						1		1				1		1	1				77
			26+25 - 25+57	68	78																	
Ramp A	2D-1PB	Rt.	25+57																	2		
			25+57 - 24+86			176																
Ramp A	2D-2L	Rt.	24+86						1		1				1		1	1				77
			24+86 - 23+90	96	106																	
Ramp A	2D-3L	Rt.	23+90						1						1		1	1				85
			23+90 - 21+84	206	216																	
Ramp A	2D-4L	Rt.	21+84						1						1		1	1				85
			21+84 - 20+14	170	180																	
Ramp A	2D-2PB	Rt.	20+14																	2		
			20+14 - 19+75			98																
Ramp A	2D-5L	Rt.	19+75						1						1		1	1				85
			19+75 - 18+82			206																
Ramp A	2D-3PB	Rt.	18+82																	2		
			18+82 - 17+72	110	120																	
Ramp A	2D-6L	Rt.	17+72						1						1		1	1				85
			17+72 - 15+66			432																
Ramp A	2D-7L	Rt.	15+66						1						1		1	1				85
			15+66 - 13+60	206	216																	
Ramp A	2D-8L	Rt.	13+60						1						1		1	1				85
			13+60 - 11+54	206	216																	
Ramp A	2D-9L	Rt.	11+54						1						1		1	1				85
			11+54 - 10+67	87	97																	
Ramp A	2D-4PB	Rt.	10+67																	2		
	2D-5PB		10+67 - 121+18	14	24	124														2		
I-70	2D-10L	Lt.	121+18						1						1		1	1				95
			121+18 - 118+93	225	235																	
I-70	2D-11L	Lt.	118+93						1						1		1	1				95
			118+93 - 116+52	241	251																	
I-70	2D-12L	Lt.	116+52						1						1		1	1				95
			116+52 - 114+14	238	248																	
I-70	2D-13L	Lt.	114+14						1						1		1	1			2	95
I-70	2D-14L	Lt.	112+49						1						1		1	1				95
			112+49 - 114+14	165	175																	
			114+14 - 114+14			206																
			114+14 - 113+03	See Sheet 9																		
			113+03 - 26+00	See Sheet 9																		
Sub-Totals				2854	3044	1242			18		2				18		18	18		12	4	1564

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FHWA REGION	STATE	PROJECT	
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MUS-70-10.80
GUE-70-3.17

LIGHTING SUB - SUMMARY

ZANESVILLE

				Item 625								Item 202		Special	Item 625					
Location	Mark	Side	Station to Station	Trench, 24" Deep	1½" Duct Cable with 2 No. 4 AWG 600 Volt Cables	No. 4 AWG 600 Volt Distribution Cable As Per Plan		Remove & Reerect Light Pole	Control Center		Conduit As Per Plan	Remove Light Pole	Remove Control Center	Wiring at Light Pole Foundation	Connector Kit Type ____			Cable Splicing Kit		No. 10 Pole & Bracket Cable
																II	III		Inline	WYE	
				Lin. Ft.	Lin. Ft.	Lin. Ft.		Each	Lump			Each	Each	Each		Each	Each		Each	Each	Lin. Ft.
1-70	5A-1PB	Lt.	122 + 17																2		
			122+17 - 122+50			86															
1-70	5A-1L	Lt.	122 + 50					1						1		1	1				95
			122+50 - 124+35			390															
1-70	5A-2L	Lt.	124 + 35					1						1		1	1				95
			124+35 - 126+30			410															
1-70	5A-3L	Lt.	126 + 30					1						1		1	1				95
			126+30 - 127+46			252															
1-70	5A-2S	Lt.	127 + 46																	2	
			127+46 - 128+25			178															
1-70	5A-4L	Lt.	128 + 25					1						1		1	1				95
			128+25 - 130+15			400															
1-70	5A-5L	Lt.	130 + 15					1						1		1	1				95
			130+15 - 131+74			338															
1-70	5A-2PB	Lt.	131 + 74																2		
			131+74 - 132+00	26	36																
1-70	5A-6L	Lt.	132 + 00					1						1		1	1				85
			132+00 - 12+14	194	204																
Ramp K	5A-7L	Rt.	12 + 14					1						1		1	1				85
			12+14 - 10+17	197	207																
Ramp K	5A-8L	Rt.	10 + 17					1						1		1	1				85
			10+17 - 8+75			304															
Ramp K	5A-3PB	Rt.	8 + 75																2		
			8+75 - 8+14	61	71																
Ramp K	5A-9L	Rt.	8 + 14					1						1		1	1				85
			8+14 - 7+78	36	46																
Ramp K	5A-4PB	Rt.	7 + 78																4	2	
Ramp K	5A-10L	Rt.	6 + 21					1						1		1	1				85
			6+21 - 7+78	159	169																
			7+78 - 7+78	64	222																
Ramp K	5ABC-C	Rt.	7+78 - 36' Rt.						Lump				1								
Ramp E	5B-1PB	Rt.	32+15																2		
			32+15 - 123+60			304															
1-70	5B-1L	Rt.	123 + 60					1						1		1	1				95
			123+60 - 125+35			370															
1-70	5B-2L	Rt.	125 + 35					1						1		1	1				95
			125+35 - 126+04			158															
1-70	5B-1S	Rt.	126 + 04																	2	
			126+04 - 127+25			262															
1-70	5B-3L	Rt.	127 + 25					1						1		1	1				95
			127+25 - 129+25			420															
1-70	5B-4L	Rt.	129 + 25					1						1		1	1				95
			129+25 - 11+24			390															
Ramp J	5B-2PB	Rt.	11 + 24																	2	
			11+24 - 13+24	200	210																
Ramp J	5B-5L	Rt.	13 + 24					1						1		1	1				85
			13+24 - 15+43	219	229																
Ramp J	5B-6L	Rt.	15 + 43					1						1		1	1				85
			15+43 - 15+43			98															
Ramp J	5B-3PB	Lt.	15 + 43																2		
			15+43 - 16+52	109	119																
Ramp J	5B-4PB	Lt.	16 + 52																	2	
Ramp J	5B-7L	Lt.	17 + 00					1						1		1	1				77
			17+00 - 16+52	48	58																
			16+52 - 136+28	78	88																
1-70	5B-5PB	Rt.	136 + 28																	2	
Sub - Totals				1391	1659	4360		17	Lump				1	17		17	17		14	12	1527

MICROFILMED
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FHWA REGION	STATE	PROJECT	
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MUS-70-10.80
GUE-70-3.17

LIGHTING SUB - SUMMARY

ZANESVILLE

				Item 625								Item 202		Special	Item 625						
Location	Mark	Side	Station to Station	Trench, 24" Deep	1½" Duct Cable with 2 No. 4 AWG 600 Volt Cables	No. 4 AWG 600 Volt Distribution Cable As Per Plan			Remove & Reerect Light Pole		Install 2" Steel Pole	Remove Pole Base	Remove Control Center	Wiring at Light Pole Foundation	Connector Kit Type ___			Cable Splicing Kit		No. 10 Pole & Bracket Cable
															I	II	III	Inline	WYE	
				Lin. Ft.	Lin. Ft.	Lin. Ft.			Each		Lump	Each	Each	Each		Each	Each	Each	Each	Lin. Ft.
I-70	5B-8L	Rt.	132 + 51						1					1		1	1			95
			132+51 - 134+47	196	206															
I-70	5B-9L	Rt.	134 + 47						1					1		1	1			95
			134+47 - 136+28	181	191															
I-70	5B-10L	Rt.	136 + 52						1					1		1	1			95
			136+52 - 136+28			68														
			136+28 - 136+06			216														
I-70	5B-6PB	Lt.	136 + 06																2	
I-70	5B-11L	Lt.	135 + 59						1					1		1	1			95
			135+59 - 136+06			114														
			136+06 - 137+45			298														
I-70	5B-7PB	Lt.	137 + 45															2		
			137+45 - 137+89	44	54															
I-70	5B-12L	Lt.	137 + 89						1					1		1	1			95
			137+89 - 138+42	53	63															
I-70	5B-8PB	Lt.	138 + 42															4		
			138+42 - 7+78	36	92															
Ramp K	5B-9PB	Lt.	7 + 78															4		
			7+78 - 7+78			172														
Ramp M	5C-1L	Rt.	8 + 75						1					1		1	1			77
			8+75 - 9+80	105	115															
Ramp M	5C-2L	Rt.	9 + 80						1					1		1	1			85
			9+80 - 12+00	220	230															
Ramp M	5C-3L	Rt.	12 + 00						1					1		1	1			85
			12+00 - 12+55	55	65															
Ramp M	5C-1PB	Rt.	12 + 55															2		
			12+55 - 14+21	166	176															
Ramp M	5C-4L	Rt.	14 + 21						1					1		1	1			85
			14+21 - 143+27			378														
I-70	5C-2PB	Lt.	143 + 27															2		
			143+27 - 16+51	80	90															
Ramp M	5C-5L	Rt.	16 + 51						1					1		1	1			85
			16+51 - 141+44	104	114															
I-70	5C-3PB	Lt.	141 + 44															2		
			141+44 - 140+20			268														
I-70	5C-6L	Lt.	140 + 20						1					1		1	1			95
			140+20 - 139+64			132														
I-70	5C-4PB	Lt.	139 + 64																2	
I-70	5C-7L	Rt.	144 + 85						1					1		1	1			95
			144+85 - 143+23			344														
I-70	5C-5PB	Rt.	143 + 23															2		
			143+23 - 142+33	90	100															
I-70	5C-8L	Rt.	142 + 33						1					1		1	1		2	95
Ramp L	5C-9L	Lt.	13 + 05						1					1		1	1			77
			13+05 - 142+33	86	96															
			142+33 - 141+53	80	90															
I-70	5C-6PB	Rt.	141 + 53															2		
			141+53 - 139+85			356														
I-70	5C-10L	Rt.	139 + 85						1					1		1	1		2	95
Ramp L	5C-11L	Rt.	8 + 64						1					1		1	1			95
			8+64 - 9+27	63	73															
Ramp L	5C-13PB	Rt.	9 + 27																2	
			9+27 - 9+89	62	72															
Ramp L	5C-7PB	Rt.	9 + 89																2	
			9+89 - 139+85			104														
			139+85 - 139+64			206														
			139+64 - 138+42	122	132															
Ramp L	5C-12L	Rt.	10+90 - 9+89			222			1					1		1	1			95
Sub-Totals				1743	1959	2878			17					17		17	17	20	12	1539

MICROFILMED
JUL 23 1985

LIGHTING SUB - SUMMARY

ZANESVILLE

CALCULATED BY Rm DATE 6-27-79
CHECKED BY D.M DATE 4-22-80

FHWA REGION	STATE	PROJECT	
5	OHIO		

13/26

MUS-70-10.80
GUE-70-3.17

Location	Mark	Side	Station to Station	Item 625 Trench, 24" Deep	Item 625 1½" Duct Cable with 2 No.4 AWG 600 Volt Cables	Item 625 No.4 AWG 600 Volt Distribution Cable, As Per Plan			Item 625 Remove & Reerect Light Pole			Item 202 Remove Existing Pole	Item 202 Remove Control Center	Special Wiring at Light Pole Foundation	Item 625 Connector Kit Type ___			Item 625 Cable Splicing Kit		Item 625 No.10 Pole & Bracket Cable
																II	III	Inline	WYE	
				Lin. Ft.	Lin. Ft.	Lin. Ft.			Each					Each		Each	Each	Each	Each	Lin. Ft.
I-70	8A-1L	Lt.	158+97						1					1		1	1			95
			158+97-11+50	40	50															
Ramp N	8A-1PB	Lt.	11 + 50																2	
Ramp N	8A-2L	Rt.	13 + 70						1					1		1	1			85
			11+52 - 13+70	218	228															
Ramp N	8A-3L	Rt.	11 + 52						1					1		1	1			85
			11+52 - 11+50			78														
			11+50 - 150+60	210	220															
Ramp N	8A-4L	Lt.	156 + 60						1					1		1	1			95
			156+60 - 153+85																	
I-70	8A-5L	Lt.	153 + 85			570			1					1		1	1			95
			153+85 - 152+06	179	189															
I-70	8A-2PB	Lt.	152 + 06																2	
			152+06 - 150+13			406														
I-70	8A-4PB	Lt.	150 + 13																2	
I-70	8A-8L	Lt.	146 + 15						1					1		1	1			95
			146+15 - 146+74			138														
Ramp M	8A-5PB	Lt.	146+74															2		
			12+55 - 148+70	238	248															
I-70	8A-9L	Lt.	148 + 70						1					1		1	1			95
			148+70 - 150+13	143	153															
			150+13 - 150+13			194														
I-70	8A-6PB	Rt.	150 + 13															2	2	
			150+13 - 0+73	88	196															
Ramp O	8B-1L	Rt.	7 + 80						1					1		1	1			85
			7+80 - 9+78	198	208															
Ramp O	8B-2L	Rt.	9 + 78						1					1		1	1			85
			9+78 - 159+75			74														
I-70	8B-3L	Rt.	159 + 75						1					1		1	1			95
			159+75 - 157+88	187	197															
I-70	8B-4L	Rt.	157 + 88						1					1		1	1			95
			157+88 - 155+10	278	288															
I-70	8B-5L	Rt.	155 + 10						1					1		1	1			95
			155+10 - 152+60	250	260															
I-70	8B-6L	Rt.	152 + 60						1					1		1	1			95
			152+60 - 152+06	54	64															
I-70	8B-1PB	Rt.	152 + 06																2	
Ramp O	8B-7L	Rt.	5 + 70						1					1		1	1			85
			5+70 - 3+60			440														
Ramp O	8B-8L	Rt.	3 + 60						1					1		1	1			85
			3+60 - 1+74			392														
Ramp O	8B-2PB	Rt.	1 + 74															2		
			1+74 - 1+70			106														
Ramp O	8B-9L	Lt.	1 + 70						1					1		1	1			77
			1+70 - 152+06	100	110															
			152+06 - 150+13			406														
I-70	8B-10L	Rt.	147 + 50						1					1		1	1			95
			147+50 - 150+05	255	265															
I-70	8B-11L	Rt.	150 + 05						1					1		1	1			95
			150+05 - 150+13	8	18															
Sub-Totals				2446	2694	2804			18					18		18	18		6	10	1632

MICROFILMED
JUL 2 1985

CALCULATED BY Pm DATE 6-27-79
CHECKED BY J.M DATE 4-22-80

FHWA REGION	STATE	PROJECT	
5	OHIO		

MUS-70-10.80
GUE-70-3.17

LIGHTING SUB-SUMMARY

ZANESVILLE

Location	Mark	Side	Station to Station	Item 625 Trench, 24" Deep	Item 625 1½" Duct Cable with 2 No. 4 AWG 600 Volt Cables	Item 625 No. 4 AWG 600 Volt Distribution Cable, As Per Plan	Item 625	Item 625 Remove & Reerect Light Pole	Item 625 Control Center	Item 625	Item 625	Item 202	Item 202 Remove Control Center	Special Wiring at Light Pole Foundation	Item 625 Connector Kit Type —	Item 625 Cable Splicing Kit II	Item 625 Cable Splicing Kit III	Item 625 Cable Splicing Kit	Item 625 Cable Splicing Kit Inline	Item 625 Cable Splicing Kit W YE	No. 10 AWG Pole & Bracket Cable
				Lin. Ft.	Lin. Ft.	Lin. Ft.		Lin. Ft.	Lump			Each	Each	Each		Each	Each		Each	Each	Lin. Ft.
1-70	9A-1L	Lt.	198 + 95					1						1		1	1				95
			198+95 - 195+35	360	370																
1-70	9A-2L	Lt.	195 + 35					1						1		1	1				95
			195+35 - 191+75	360	370																
1-70	9A-3L	Lt.	191 + 75					1						1		1	1				95
			191+75 - 188+15	360	370																
1-70	9A-4L	Lt.	188 + 15					1						1		1	1				95
			188+15 - 184+55	360	370																
1-70	9A-5L	Lt.	184 + 55					1						1		1	1				95
			184+55 - 180+95	360	370																
1-70	9A-6L	Lt.	180 + 95					1						1		1	1				95
			180+95 - 177+35	360	370																
1-70	9A-7L	Lt.	177 + 35					1						1		1	1			2	95
Ramp N	9A-8L	Rt.	9 + 70					1						1		1	1				95
			9+70 - 7+80	190	200																
Ramp N	9A-9L	Rt.	7 + 80					1						1		1	1				95
			7+80 - 164+55	238	248																
1-70	9A-10L	Lt.	164 + 55					1						1		1	1				95
			164+55 - 166+85	230	240																
1-70	9A-11L	Lt.	166 + 85					1						1		1	1				95
			166+85 - 169+15	230	240																
1-70	9A-12L	Lt.	169 + 15					1						1		1	1				95
			169+15 - 171+45	230	240																
1-70	9A-13L	Lt.	171 + 45					1						1		1	1				95
			171+45 - 173+75	230	240																
1-70	9A-14L	Lt.	173 + 75					1						1		1	1				95
			173+75 - 177+35	360	370																
			177+35 - 177+35			202															
1-70	9A-3PB	Rt.	177 + 35																2	2	
			177+35 - 177+35	148	316																
	9A,B-C		177+35 - 165' Rt.						Lump				1								
1-70	9B-14L	Rt.	200 + 75					1						1		1	1				95
			200+75 - 199+88			194															
1-70	9B-2PB	Rt.	199 + 88																2		
			199+88 - 197+10	278	288																
1-70	9B-1L	Rt.	197 + 10					1						1		1	1				95
			197+10 - 193+55	355	365																
1-70	9B-2L	Rt.	193 + 55					1						1		1	1				95
			193+55 - 189+95	360	370																
1-70	9B-3L	Rt.	189 + 95					1						1		1	1				95
			189+95 - 186+35	360	370																
1-70	9B-4L	Rt.	186 + 35					1						1		1	1				95
			186+35 - 182+75	360	370																
1-70	9B-5L	Rt.	182 + 75					1						1		1	1				95
			182+75 - 179+15	360	370																
1-70	9B-6L	Rt.	179 + 15					1						1		1	1				95
			179+15 - 177+35	180	190																
Ramp O	9B-7L	Rt.	11 + 70					1						1		1	1				95
			11+70 - 163+40	173	183																
1-70	9B-8L	Rt.	163 + 40					1						1		1	1				95
			163+40 - 165+70	230	240																
1-70	9B-9L	Rt.	165 + 70					1						1		1	1				95
Sub-Totals				6672	7060	396		24	Lump				1	24		24	24		4	4	2280

MICROFILMED
JUL 23 1985

CALCULATED BY [illegible] DATE 6-27-79
CHECKED BY D.M. DATE 4-22-80

FHWA REGION	STATE	PROJECT	
5	OHIO		

15
2.6

MUS-70-10.80
GUE-70-3.17

LIGHTING SUB-SUMMARY

ZANESVILLE

				Item 625									Item 202		Special	Item 625							
Location	Mark	Side	Station to Station	Trench, 24" Deep	1½" Duct Cable with 2 No.4 AWG 600 Volt Cables	No.4 AWG 600 Volt Distribution Cable As Per Plan		Service Pole	Control Center	Ground Rod	AT-X Transformer Base		Remove Service Pole	Remove Control Center	Wiring at Light Pole Foundation	Connector Kit Type ____ I	Connector Kit Type ____ II	Connector Kit Type ____ III		Cable Splicing Kit Inline	Cable Splicing Kit W YE	No. 10 AWG Pole & Bracket Cable	Remove & Reerect Light Pole
				Lin. Ft.	Lin. Ft.	Lin. Ft.		Lump	Lump	Each	Each		Each	Each	Each		Each	Each		Each	Each	Lin. Ft.	Each
			165+70 - 168+00	230	240																		
I-70	9B-10L	Rt.	168 + 00												1		1	1				95	1
			168+00 - 170+30	230	240																		
I-70	9B-11L	Rt.	170 + 30												1		1	1				95	1
			170+30 - 172+60	230	240																		
I-70	9B-12L	Rt.	172 + 60												1		1	1				95	1
			172+60 - 175+55	295	305																		
I-70	9B-13L	Rt.	175 + 55												1		1	1				95	1
			175+55 - 177+35	180	190																		
Sub-Totals This Sheet				1165	1215										4		4	4				380	4
Sub-Totals Carried from Sheet			7	2701	3209	2136			Lump		2			1	19		19	19		16	6	1709	19
Sub-Totals	"	"	" 8	3090	3290	1172		Lump	Lump	1	1		1	1	18		18	18		10	10	1640	18
Sub-Totals	"	"	" 9	3823	5187	1240									21		21	21		18	12	1835	21
Sub-Totals	"	"	" 10	2854	3044	1242					2				18		18	18		12	4	1564	18
Sub-Totals	"	"	" 11	1391	1659	4360			Lump					1	17		17	17		14	12	1527	17
Sub-Totals	"	"	" 12	1743	1959	2878									17		17	17		20	12	1539	17
Sub-Totals	"	"	" 13	2446	2694	2804									18		18	18		6	10	1632	18
Sub-Totals	"	"	" 14	6672	7060	396			Lump					1	24		24	24		4	4	2280	24
Totals Carried to General Summary				25,885	29,317	16,228		Lump	Lump	1	5		1	4	156		156	156		100	70	14,106	156

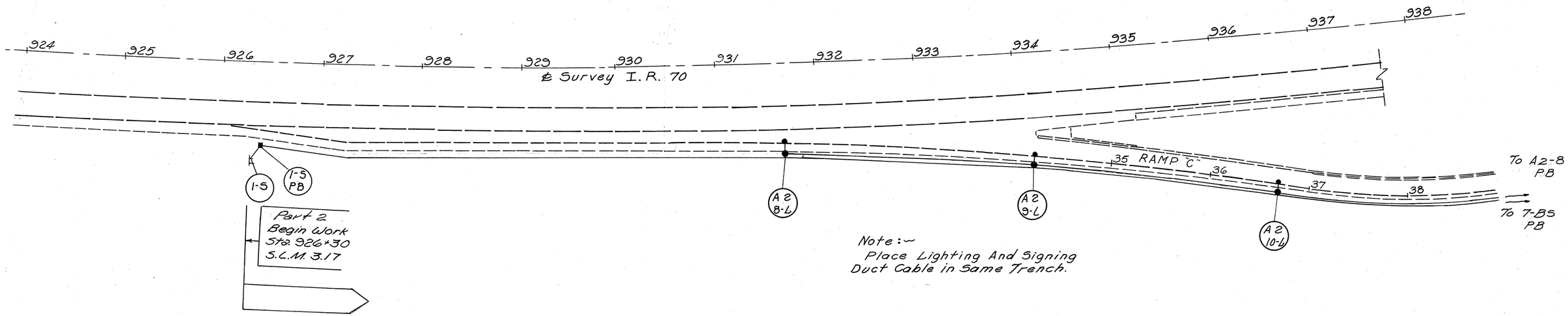
MICROFILMED
JUL 23 1985

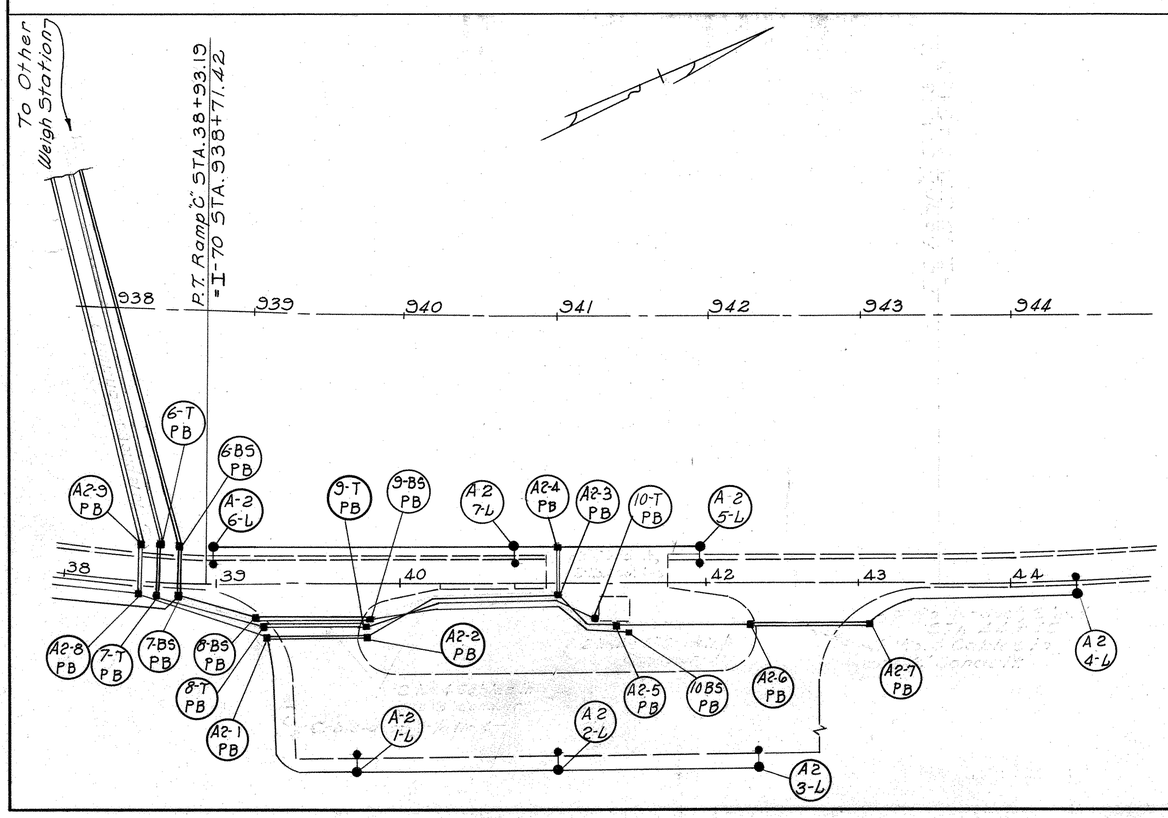
CALCULATED BY Rm DATE 6-27-79
CHECKED BY O.M. DATE 4-22-80

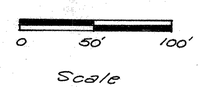
FHWA REGION	STATE	PROJECT	
5	OHIO		

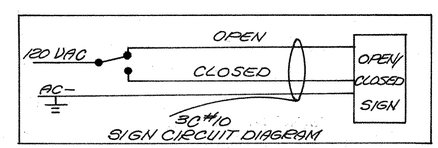
16
26

MUS-70-10.80
GUE-70-3.17









Sta. 926+30 Sht. 16 — 1-S

Sta. 950+65 Sht. 17 — 2-S

Part-2 GUE-I-70 Weigh Station E.B.

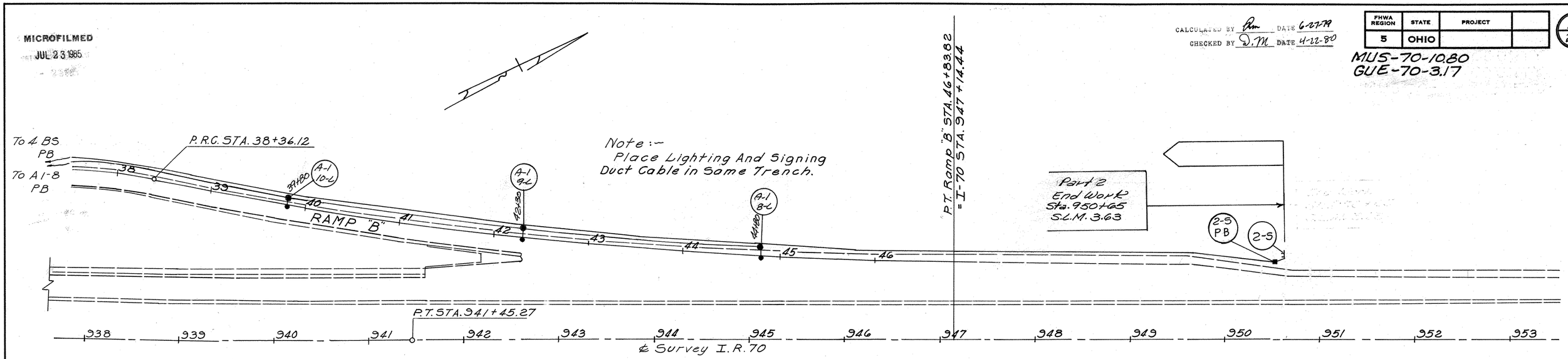
MICROFILMED
JUL 23 1985

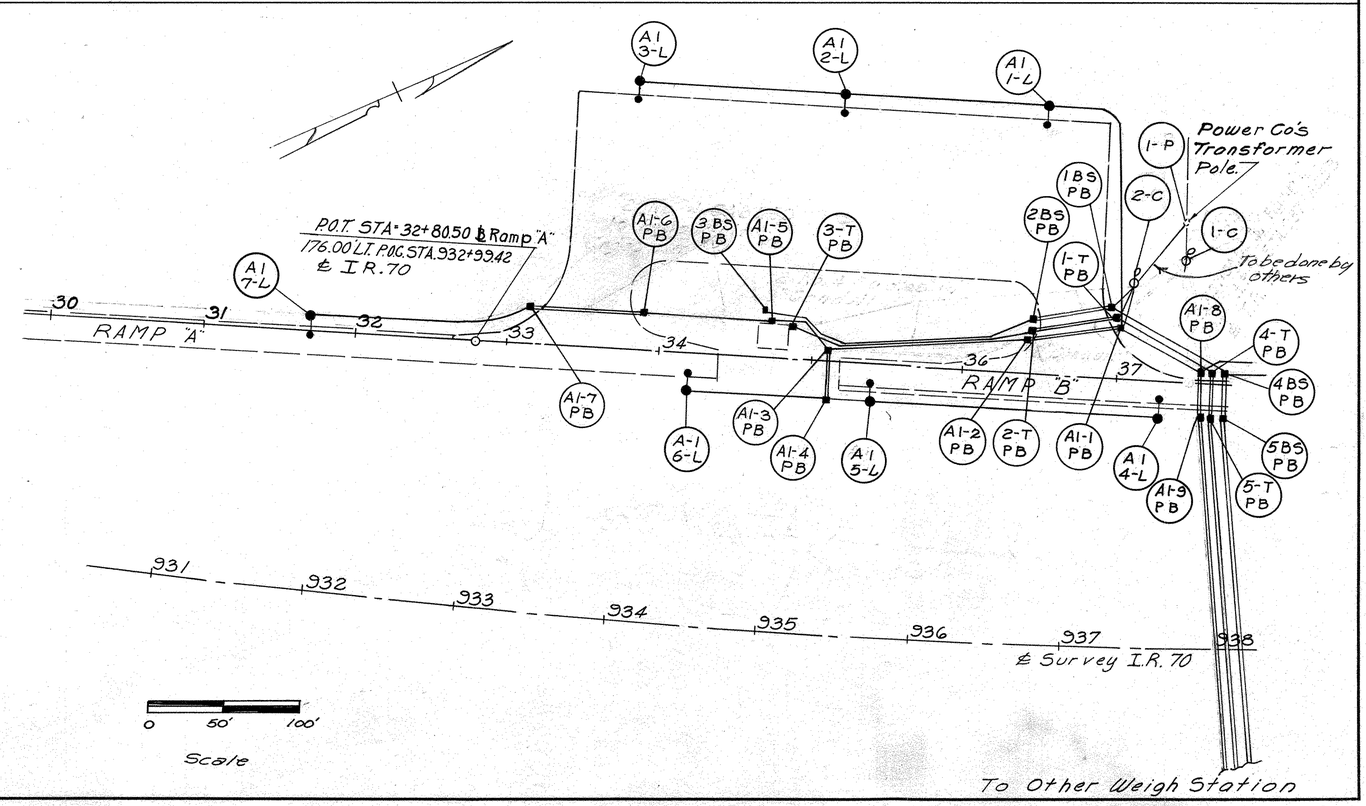
CALCULATED BY Rm DATE 6-27-79
CHECKED BY D.M. DATE 4-22-80

FHWA REGION	STATE	PROJECT	
5	OHIO		

17
26

MUS-70-10.80
GUE-70-3.17





Part - 2 GUE-I-70 Weigh Station W.B.

CALCULATED BY Dm DATE 6-27-79
CHECKED BY D.M. DATE 4-22-80

FHWA REGION	STATE	PROJECT	
5	OHIO		

18
26

MUS-70-10.80
GUE-70-3.17

LIGHTING SUB-SUMMARY

GUE-I-70 WEIGH STATION

Location	Mark	Side	Station to Station	Item 625 Trench 24" Deep	Item 625 1½" Duct Cable With 2 No. 4 AWG 600 Volt Cables	Item 625 No 4 AWG 600 Volt Distribution Cable As Per Plan		Item 625 Service Pole	Item 625 Control Center	Item 625 Pull Box, Concrete As Per Plan	Item 625 Remove & Reset Light Pole				Item 625 Connector Kit Type II.	Item 625 Connector Kit Type III.		Item 625 Cable Splicing Kit Inline	Item 625 Cable Splicing Kit WYE	Item 625 Ground Rod		Item 625 No. 10 AWG Pole & Bracket Cable
				Lin. Ft.	Lin. Ft.	Lin. Ft.		Lump	Lump	Each	Each				Each	Each		Each	Each	Each		Lin. Ft.
Ramp B	A1-3L	Lt.	33+76								1				1	1						85
			33+76-35+12	136	146																	
Ramp B	A1-2L	Lt.	35+12								1				1	1						85
			35+12-36+50	138	148																	
Ramp B	A1-1L	Lt.	36+50								1				1	1						85
			36+50-37+00	175	185																	
Ramp B	A1-1PB	Lt.	37+00							1									2			
			37+00-37+10	30		80																
Ramp B	2-C	Lt.	37+10 60' Lt.					Lump	Lump											1		
			37+00-36+40			150																
Ramp B	A1-2PB	Lt.	36+40							1								2				
			36+40-35+12	137	147																	
Ramp B	A1-3PB	Lt.	35+12							1									2			
			35+12-35+12			86																
Ramp B	A1-4PB	Rt.	35+12							1									2			
			35+12-34+75	50	60																	
Ramp B	A1-5PB	Lt.	34+75							1									2			
			34+75-33+89	86	96																	
Ramp B	A1-6PB	Lt.	33+89							1								2				
			33+89-33+15			168																
Ramp B	A1-7PB	Lt.	33+15							1								2				
			33+15-31+70.5	145	155																	
Ramp A	A1-7L	Lt.	31+70.5								1				1	1						85
Ramp B	A1-4L	Rt.	37+30								1				1	1						85
			37+30-35+40.5	190	200																	
Ramp B	A1-5L	Rt.	35+40.5								1				1	1						85
			35+40.5-35.12	29	39																	
			35+12-34+20.5	92	102																	
Ramp A	A1-6L	Rt.	34+20.5								1				1	1						85
			37+00-37+55	60	70																	
Ramp B	A1-8PB	Lt.	37+55							1									2			
			37+55-37+55			80																
Ramp B	A1-9PB	Rt.	37+55							1								2				
			37+55-38+50			660																
Ramp C	A2-9PB	Lt.	38+50							1								2				
			38+50-38+50			84																
Ramp C	A2-8PB	Rt.	38+50							1									2			
			38+50-39+30	90	100																	
Ramp C	A2-1PB	Rt.	39+30							1									2			
			39+30-39+90	130	140																	
Ramp C	A2-1L	Rt.	39+90								1				1	1						85
			39+90-41+02	112	122																	
Ramp C	A2-2L	Rt.	41+02								1				1	1						85
			41+02-42+35	133	143																	
Ramp D	A2-3L	Rt.	42+35								1				1	1						85
			39+30-40+00			160																
Ramp C	A2-2PB	Rt.	40+00							1								2				
			40+00-41+02	130	140																	
Ramp C	A2-3PB	Rt.	41+02							1									2			
			41+02-41+02			86																
Ramp C	A2-4PB	Lt.	41+02							1									2			
			41+02-940+75	27	37																	
I-70	A2-7L	Rt.	940+75								1				1	1						85
			940+75-938+98	200	210																	
I-70	A2-6L	Rt.	938+98								1				1	1						85
			41+02-941+95	93	103																	
I-70	A2-5L	Rt.	941+95								1				1	1						85
			41+02-41+42	45	55																	
Ramp C	A2-5PB	Rt.	41+42							1									2			
Sub-Totals				2,228	2398	1554		Lump	Lump	16	13				13	13		12	20	1		1105

MICROFILMED
JUL 23 1985

LIGHTING SUB-SUMMARY

GUE-I-70 WEIGH STATION

CALCULATED BY [illegible] DATE 6-27-79
CHECKED BY D.M. DATE 4-22-80

FHWA REGION	STATE	PROJECT	
5	OHIO		

MUS-70-10.80
GUE-70-3.17

Location	Mark	Side	Station to Station	Item 625 Trench 24" Deep	Item 625 1½" Duct Cable With 2 No 4 AWG 600 Volt Cables	Item 625 No 4 AWG 600 Volt Distribution Cable As Per Plan		Item 625 Service Pole	Item 625 Control Center	Item Special Pull Box, Concrete, As Per Plan	Item Special Weigh Station Sign	Item Special Weigh Station Sign Removal	Item 202 Remove Control Center	Item 202 Remove Service Pole	Item 625 Connector Kit Type			Item 625 Cable Splicing Kit		Item 625 Ground Rod		Item 625 No. 10 AWG Pole & Bracket Cable	859 Signal Cable, 4 Conductor No 10 AWG	625 Remove & Reerect Light Pole
																II.	III.		Inline	WYE				
				Lin. Ft.	Lin. Ft.	Lin. Ft.		Lump	Lump	Each	Each	Each	Each	Each		Each	Each		Each	Each	Each		Lin. Ft.	Lin. Ft.	Each
			41+42 - 42+30	88	98																				
Ramp D	A2-6PB	Rt.	42+30							1									2						
			42+30 - 43+07			174																			
Ramp D	A2-7PB	Rt.	43+07							1									2						
			43+07 - 44+45	135	145																				
Ramp D	A2-4L	Rt.	44+45													1	1						85		1
			38+50 - 36+70	180	190																				
Ramp C	A2-10L	Rt.	36+70													1	1						85		1
			36+70 - 34+20	250	260																				
Ramp C	A2-9L	Rt.	34+20													1	1						85		1
			34+20 - 31+70	250	260																				
Ramp C	A2-8L	Rt.	31+70													1	1						85		1
I-70	1-S	Rt.	926+30								1	1									1				
			926+30 - 926+40	10																				20	
I-70	1S-PB	Rt.	926+40							1									2						
			926+40 - 31+70	530																				540	
			31+70 - 38+75																					715	
Ramp C	7BS-PB	Rt.	38+75							1										2					
			38+75 - 39+27																					65	
Ramp C	8BS-PB	Rt.	39+27							1									2						
			39+27 - 40+00																					83	
Ramp C	9BS-PB	Rt.	40+00							1									2						
			40+00 - 41+50																					170	
Ramp C	10BS-PB	Rt.	41+50							1									2						
			38+75 - 38+75																					42	
Ramp C	6BS-PB	Lt.	38+75							1									2						
			38+75 - 37+70																					330	
Ramp B	5BS-PB	Rt.	37+70							1									2						
			37+70 - 37+70																					40	
Ramp B	4BS-PB	Lt.	37+70							1										2					
			37+70 - 36+95																					95	
Ramp B	1BS-PB	Lt.	36+95							1										2					
			36+95 - 36+45																					65	
Ramp B	2BS-PB	Lt.	36+45							1									2						
			36+45 - 34+70																					190	
	3BS-PB		34+70							1									2						
			36+95 - 37+10																					30	
			37+70 - 950+55	1254																				1264	
I-70	2S-PB	Lt.	950+55							1									2						
			950+55 - 950+65	10																				20	
I-70	2-S	Lt.	950+65								1	1									1				
Ramp B	8,9 & 10-L	Lt.	37+55 - 44+80		755											3	3						255		3
Ramp B	1T-PB	Lt.	37+00							1															
Ramp B	2T-PB	Lt.	36+40							1															
Ramp A	3T-PB	Lt.	34+90							1															
Ramp B	4T-PB	Lt.	37+63							1															
Ramp B	5T-PB	Rt.	37+63							1															
Ramp C	6T-PB	Lt.	38+62							1															
Ramp C	7T-PB	Rt.	38+62							1															
Ramp C	8T-PB	Rt.	39+30							1															
Ramp C	9T-PB	Rt.	40+00							1															
Ramp D	10T-PB	Rt.	41+28							1															
Ramp B	1-C	Lt.	37+40										1	1											1
Sub-Totals this Sheet				2707	1708	174				24	2	2	1	1		7	7		22	6	2		595	3669	7
Sub-Totals Sheet 18				2228	2398	1554		Lump	Lump	16						13	13		12	20	1		1105		13
Totals Carried to General Summary				4935	4106	1728		Lump	Lump	40	2	2	1	1		20	20		34	26	3		1700	3,669	20

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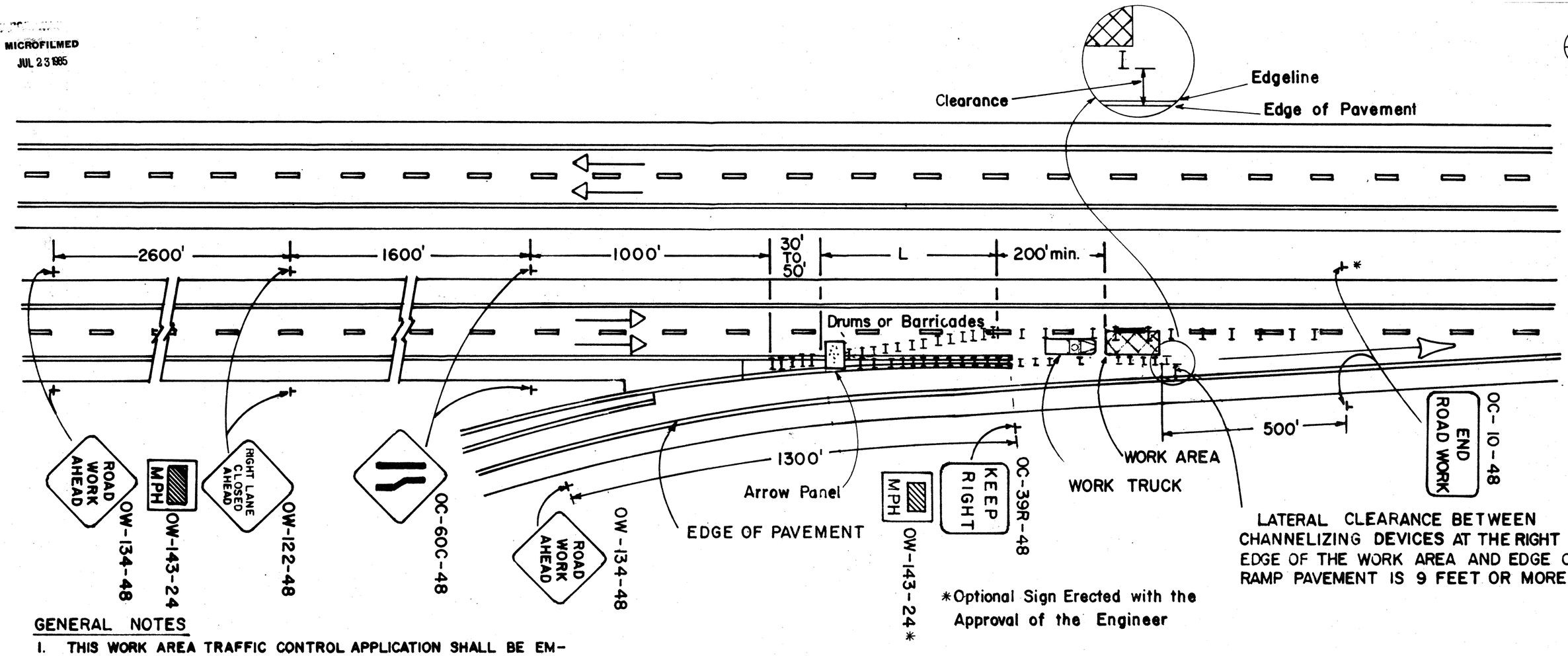

*Optional Sign Erected with the Approval of the Engineer

GENERAL NOTES

1. **THIS WORK AREA TRAFFIC CONTROL APPLICATION SHALL BE EMPLOYED WHEN THE LATERAL CLEARANCE BETWEEN THE CHANNELIZING DEVICES AT THE RIGHT EDGE OF THE WORK AREA AND THE EDGE OF THE RAMP PAVEMENT IS 9 FEET OR MORE. WHEN THE CLEARANCE IS LESS THAN 9 FEET, THE TRAFFIC CONTROL ON "LANE CLOSURE AT ENTRANCE RAMP: PLAN B" SHOULD BE USED, OR THE RAMP SHOULD BE CLOSED, OR ALLOWING RAMP TRAFFIC TO USE THE BERM SHOULD BE CONSIDERED PROVIDED THE OPERATION IS "SHORT" IN DURATION. WHEN THE RAMP IS CLOSED, APPROPRIATE DETOUR SIGNS SHALL BE PROVIDED.**

2. THIRTEEN (13) DRUMS OR BARRICADES SHALL BE USED TO FORM THE LANE TRANSITION TAPER IN ADVANCE OF THE WORK AREA. FIVE (5) CHANNELIZING DEVICES SHALL BE USED TO FORM THE TAPER ON THE SHOULDER. CONES, DRUMS, OR BARRICADES SHALL BE SPACED AT 50 FOOT CENTERS. CONES MAY BE SUBSTITUTED FOR BARRICADES OR **DRUMS FOR** THE LANE CLOSURES DURING DAYLIGHT HOURS ONLY.

3. RAMP SIGNS SHALL BE DUAL MOUNTED ON MULTILANE RAMPS.

4. THE FLASHING OR SEQUENCING ARROW PANEL SHALL BE IN ACCORDANCE WITH OMUTCD, SECTION 7G-8.

5. THE WORK TRUCK SHOWN AT THE BEGINNING OF THE WORK AREA SHALL BE IN PLACE AND UNOCCUPIED WHENEVER MEN ARE WORKING WITHIN THE WORK AREA. THIS TRUCK SHALL BE MOVED FROM THE PAVEMENT WHENEVER WORKMAN ARE NOT IN THE WORK AREA. OTHER PROTECTIVE DEVICES MAY BE USED IN LIEU OF WORK TRUCK SHOWN WHEN APPROVED BY THE ENGINEER. A TRUCK MOUNTED IMPACT ATTENUATOR MAY BE EMPLOYED.

6. TYPE C STEADY BURNING BARRICADE WARNING LIGHTS SHALL BE ERECTED ON DRUMS OR BARRICADES FOR NIGHT LANE CLOSURES. MAXIMUM SPACING SHALL BE 50' CENTER TO CENTER IN ADVANCE OF THE WORK AREA AND 200' CENTER TO CENTER WITHIN THE LIMITS OF THE WORK AREA.

7. TAPER FORMULAE:

   $L = S \times W$ FOR SPEEDS OF 45 OR MORE.
   $L = WS^2/60$ FOR SPEEDS OF 40 OR LESS.

   WHERE:

   L = MINIMUM LENGTH OF TAPER.
   S = NUMERICAL VALUE OF POSTED SPEED LIMIT PRIOR TO WORK OR 85 PERCENTILE SPEED.
   W = WIDTH OF OFFSET.

8. THE SPACINGS BETWEEN CONSTRUCTION AND MAINTENANCE SIGNS SHOWN ON THIS DETAIL MAY REQUIRE ADJUSTMENTS (INCREASES OR DECREASES) TO ASSURE THAT THEY ARE POSITIONED NO CLOSER TNAN 200 FEET TO EXISTING SIGNS AS DETERMINED BY THE ENGINEER.

OHIO DEPARTMENT OF TRANSPORTATION	
LANE CLOSURE AT ENTRANCE RAMP: PLAN A	DATE 8-3-79

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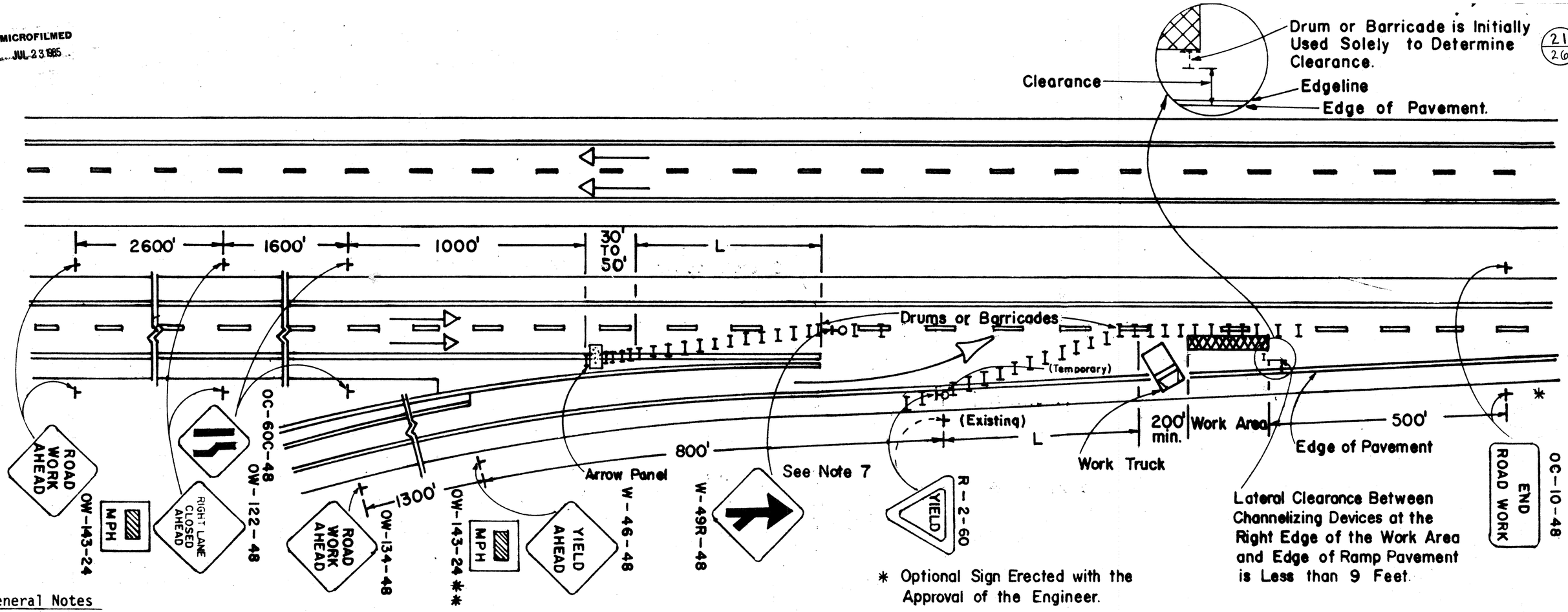

* Optional Sign Erected with the Approval of the Engineer.

General Notes

1. This work area traffic control application shall be employed when the lateral clearance between channelizing devices at the right edge of the work area and the edge of the ramp pavement is less than 9 feet. When the clearance is more than 9 feet, the traffic control on "Lane Closure at Entrance Ramp: Plan A" should be used, or the ramp should be closed. When the ramp is closed, appropriate detour signs shall be provided.

2. Thirteen (13) drums or barricades shall be used to form the lane transition taper in advance of the work area. Five (5) channelizing devices shall be used to form the taper on the shoulder. Cones, drums, or barricades shall be spaced at 50 foot centers. Cones may be substituted for barricades or drums for the lane closures during daylight hours only.

3. Ramp signs shall be dual mounted on multi-lane ramps. When the ramp is not long enough to allow placement as specified above, the signs may be spaced proportionately within the space available as determined by the Engineer (a 200' minimum spacing must be maintained).

4. The flashing or sequencing arrow panel shall be in accordance with OMUTCD, Section 7G-8.

5. The work truck shown at the beginning of the work area shall be in place and unoccupied whenever men are working within the work area. This truck shall be moved from the pavement whenever workmen are not in the work area. Other protective devices may be used in lieu of work truck shown when approved by the Engineer.

6. Type C steady burning barricade warning lights shall be erected on drums or barricades for night lane closures. Maximum spacing shall be 50' center to center in advance of the work area and 200' center to center within the limits of the work area.

7. It may be necessary to move the location of an existing Yield condition In these cases, the permanent R-2 sign installation shall be covered and the temporary installation shall be mounted upon a drive post which shall be banded to a drum with stainless steel strapping material or other techniques subject to the approval of the Engineer.

8. Taper Formulae:

   $L = S \times W$ for Speeds of 45 or more.
   $L = WS^2/60$ for Speeds 40 or less.

   Where:

   L = Minimum length of taper.
   S = Numerical value of posted speed limit prior to work or 85 percentile speed.
   W = Width of offset.

9. THE SPACINGS BETWEEN CONSTRUCTION AND MAINTENANCE SIGNS SHOWN ON THIS DETAIL MAY REQUIRE ADJUSTMENTS (INCREASES OR DECREASES) TO ASSURE THAT THEY ARE POSITIONED NO CLOSER THAN 200 FEET TO EXISTING SIGNS AS DETERMINED BY THE ENGINEER.

OHIO DEPARTMENT OF TRANSPORTATION

LANE CLOSURE AT ENTRANCE RAMP PLAN B	DATE 8-3-79

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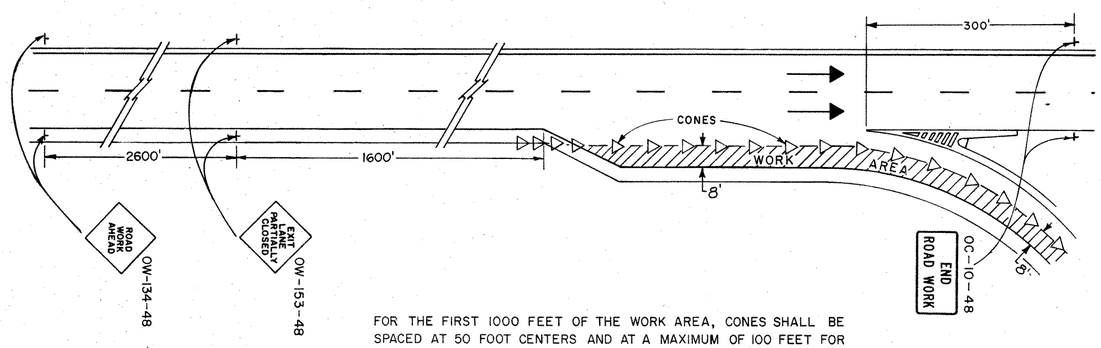
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		



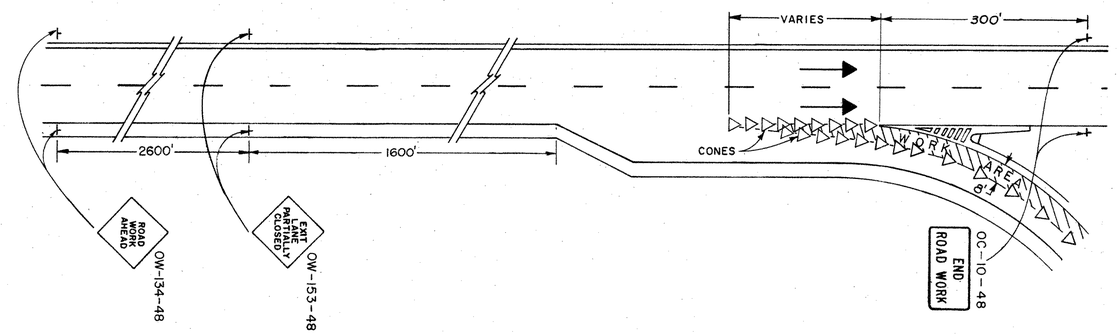
FOR THE FIRST 1000 FEET OF THE WORK AREA, CONES SHALL BE SPACED AT 50 FOOT CENTERS AND AT A MAXIMUM OF 100 FEET FOR THE BALANCE OF THE WORK AREA. ALL CONES SHALL BE A MINIMUM OF 36 INCHES IN HEIGHT.

RAMP TRAFFIC SHALL BE MAINTAINED AT ALL TIMES.

See sheet 26 when work can not be confined to 8" from the edge of pavement, leaving adequate pavement for traffic on ramp.

OHIO DEPARTMENT OF TRANSPORTATION	
TYPICAL LANE CLOSURE IN DECELERATION LANE AND RAMP - FOR CLOSING INSIDE PORTION OF CURVE	DATE 11/77

DES. STD. LIGHTING



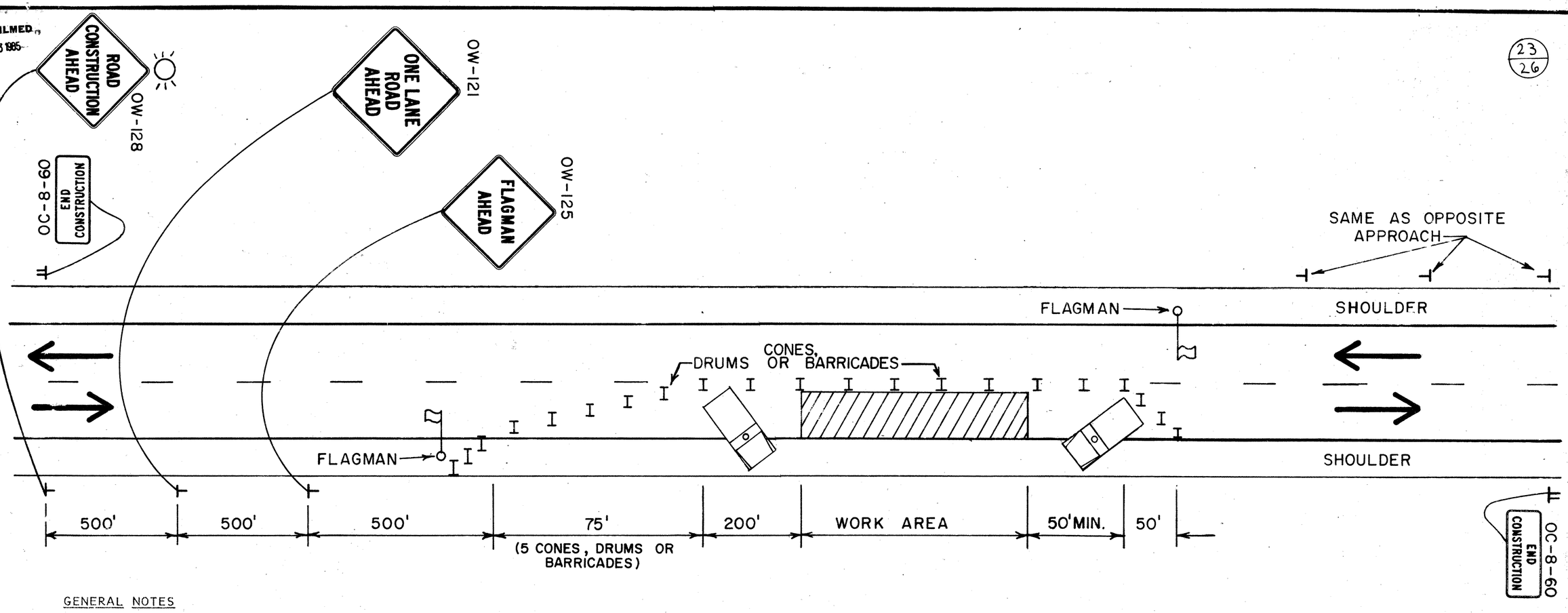
FOR THE FIRST 1000 FEET OF THE WORK AREA, CONES SHALL BE SPACED AT 50 FOOT CENTERS AND AT A MAXIMUM OF 100 FEET FOR THE BALANCE OF THE WORK AREA. ALL CONES SHALL BE A MINIMUM OF 36 INCHES IN HEIGHT.

RAMP TRAFFIC SHALL BE MAINTAINED AT ALL TIMES.

OHIO DEPARTMENT OF TRANSPORTATION	
TYPICAL LANE CLOSURE IN RAMP - FOR CLOSING OUTSIDE PORTION OF CURVE	DATE 11/77

DES. STD. LIGHTING

MICROFILMED
JUL 23 1985



GENERAL NOTES

1. FLAGMEN SHALL BE USED TO CONTROL TRAFFIC CONTINUOUSLY FOR AS LONG AS ONE LANE OPERATION IS IN EFFECT. FLAGMAN SHALL COMMUNICATE WITH EACH OTHER AT ALL TIMES AS DESCRIBED IN THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES IN THE SECTION "FLAGMAN CONTROL". FLAGMEN STATIONS SHALL BE ADEQUATELY ILLUMINATED FOR NIGHT-TIME OPERATIONS BY USE OF A 175 WATT MINIMUM LUMINAIRE.

2. CONES, DRUMS, OR BARRICADES SHALL BE SPACED AT 50 FOOT CENTERS FOR THE FIRST 1000 FEET OF THE WORK AREA AND AT A MAXIMUM OF 100 FEET FOR THE BALANCE OF THE WORK AREA. CONES MAY BE SUBSTITUTED FOR BARRICADES OR STEEL DRUMS FOR THE LANE CLOSURES DURING DAYLIGHT HOURS ONLY.

3. SEVERAL SMALL WORK SITES CLOSE TOGETHER SHALL BE COMBINED INTO ONE WORK AREA TO MAKE A CLOSURE NOT MORE THAN 2000 FEET LONG INCLUDING TAPERS. CLOSURES MORE THAN 2000 FEET MAY BE APPROVED BY THE ENGINEER. THE MINIMUM LENGTH BETWEEN CLOSURES SHALL BE 2000 FEET. ONLY ONE SIDE OF THE ROAD SHALL BE CLOSED IN ANY ONE WORK AREA.

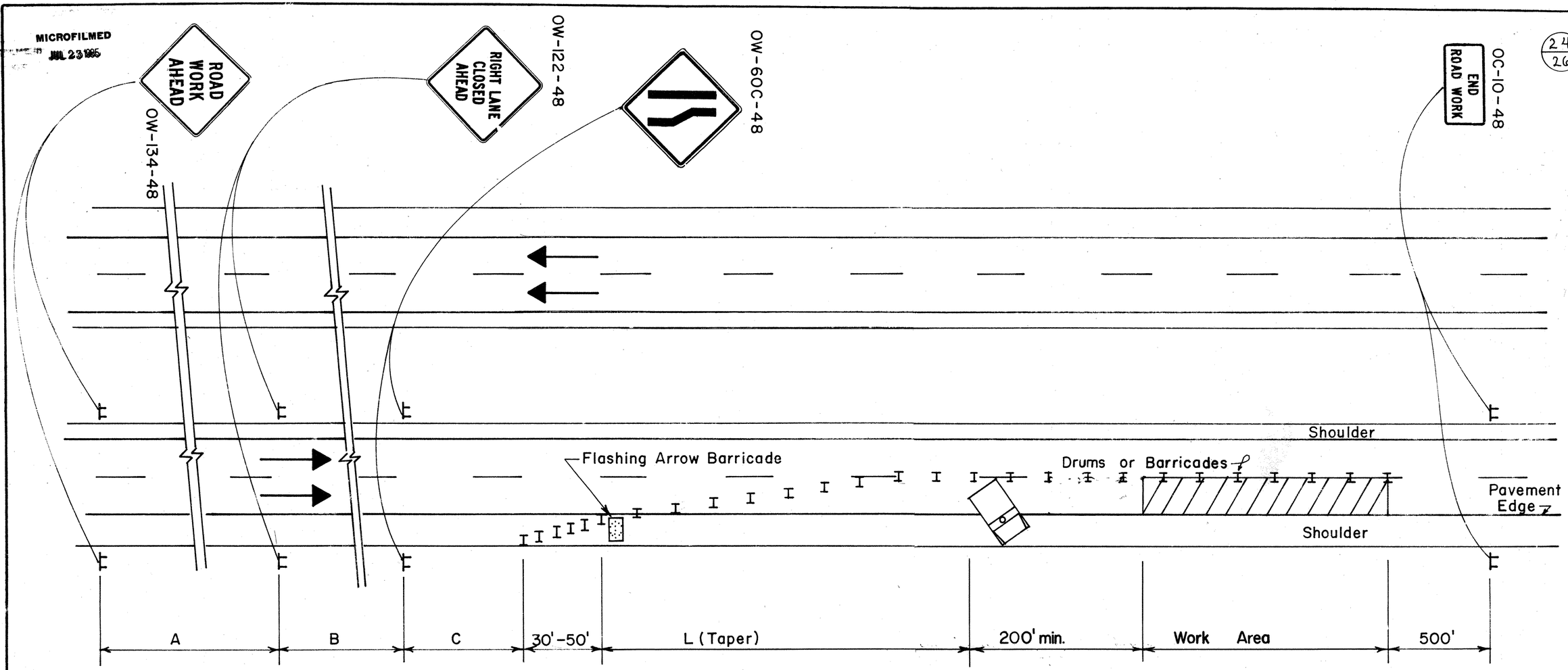
4. THE WORK TRUCKS SHOWN AT EACH END OF THE WORK AREA SHALL BE IN PLACE AND UNOCCUPIED WHENEVER MEN ARE WORKING WITHIN THE WORK AREA. THESE TRUCKS SHALL BE MOVED FROM THE PAVEMENT WHENEVER WORKMEN ARE NOT IN THE WORK AREA. OTHER PROTECTIVE DEVICES MAY BE USED IN LIEU OF THE WORK TRUCKS SHOWN WHEN APPROVED BY THE ENGINEER.

5. THE TYPE B HIGH INTENSITY BARRICADE WARNING LIGHT SHOWN ON THE ROAD CONSTRUCTION AHEAD SIGN, IS REQUIRED WHENEVER NIGHT LANE CLOSURE IS NECESSARY.

6. TYPE C STEADY BURNING BARRICADE WARNING LIGHTS SHALL BE ERECTED ON DRUMS OR BARRICADES FOR NIGHT LANE CLOSURES. MAXIMUM SPACING SHALL BE 50' CENTER TO CENTER IN ADVANCE OF THE WORK AREA AND 200' CENTER TO CENTER WITHIN THE WORK AREA.

OHIO DEPARTMENT OF TRANSPORTATION	
FLAGMEN CLOSING I LANE OF A 2 LANE HIGHWAY	DATE 4/77
DR. GBD CK. RLB	

MICROFILMED
JUL 23 1985



GENERAL NOTES

1. THIRTEEN (13) DRUMS OR BARRICADES SHALL BE USED TO FORM THE LANE TRANSITION TAPER IN ADVANCE OF THE WORK AREA. FIVE (5) CHANNELIZING DEVICES SHALL BE USED TO FORM THE TAPER ON THE SHOULDER. CONES, DRUMS, OR BARRICADES SHALL BE SPACED AT 50 FOOT CENTERS FOR THE FIRST 1000 FEET OF THE WORK AREA AND AT A MAXIMUM OF 100 FEET FOR THE BALANCE OF THE WORK AREA. CONES MAY BE SUBSTITUTED FOR THE BARRICADES OR STEEL DRUMS FOR THE LANE CLOSURES DURING DAYLIGHT HOURS ONLY.

2. WHEN WORK IS BEING PERFORMED IN THE LANE ADJACENT TO THE MEDIAN ON A DIVIDED HIGHWAY, "OW-123-48" SIGNS SHALL BE SUBSTITUTED FOR "OW-122-48" SIGNS AND THE OW-60D SIGNS SHALL BE SUBSTITUTED FOR THE OW-60C SIGNS.

3. THE WORK TRUCK SHOWN AT THE BEGINNING OF THE WORK AREA SHALL BE IN PLACE AND UNOCCUPIED WHENEVER MEN ARE WORKING WITHIN THE WORK AREA. THIS TRUCK SHALL BE MOVED FROM THE PAVEMENT WHENEVER WORKMEN ARE NOT IN THE WORK AREA. OTHER PROTECTIVE DEVICES MAY BE USED IN LIEU OF THE WORK TRUCK SHOWN WHEN APPROVED BY THE ENGINEER.

5. TYPE C STEADY BURNING BARRICADE WARNING LIGHTS SHALL BE ERECTED ON DRUMS OR BARRICADES FOR NIGHT LANE CLOSURES. MAXIMUM SPACING SHALL BE 50' CENTER TO CENTER IN ADVANCE OF THE WORK AREA AND 200' CENTER TO CENTER WITHIN THE LIMITS OF THE WORK AREA.

DISTANCE	A	B	C	L
URBAN	200	200	200	425
MAJOR STANDARD	500	500	500	600
FREEWAY AND EXPRESSWAY	2600	1600	1000	720

OHIO DEPARTMENT OF TRANSPORTATION

CLOSING ONE LANE OF A FOUR LANE DIVIDED HIGHWAY

DATE 7/77

DR. GRD CK. RLB.

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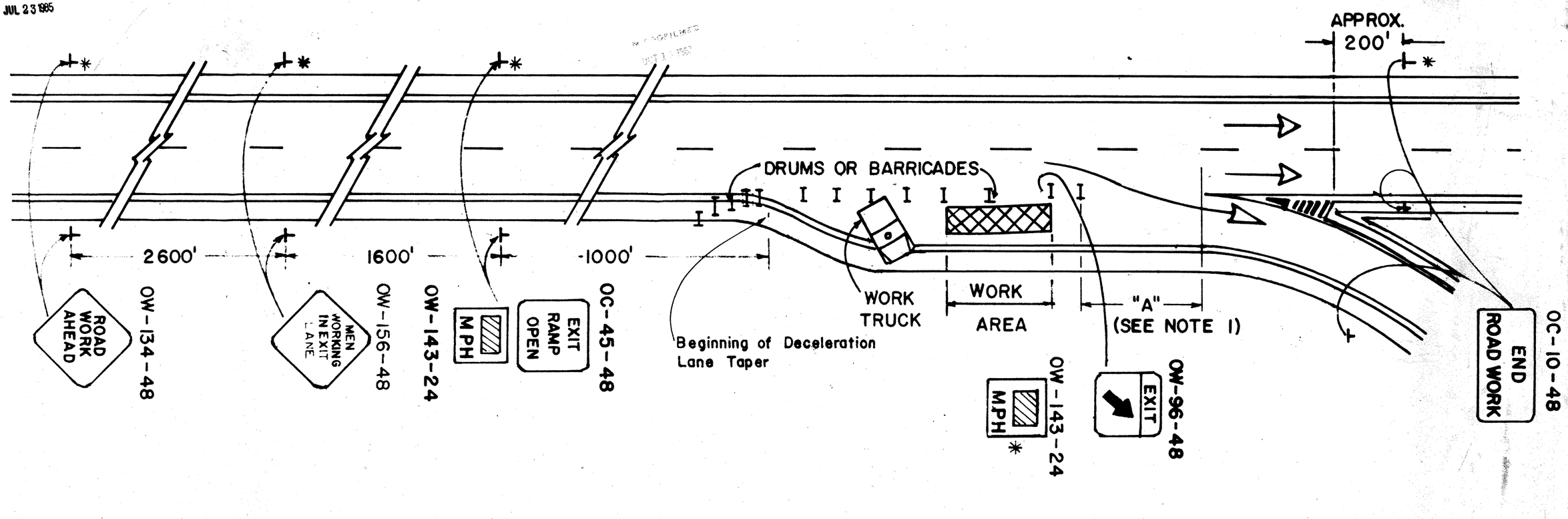
JUL 23 1985



*** OPTIONAL SIGN ERECTED WITH THE APPROVAL OF THE ENGINEER.**

GENERAL NOTES.

1. THIS WORK AREA TRAFFIC CONTROL APPLICATION SHALL ONLY APPLY WHEN THE DISTANCE "A" IS GREATER THAN 100'. WHEN DISTANCE "A" IS LESS THAN 100', THE RAMP SHALL BE CLOSED. WHEN THE RAMP IS CLOSED, THE TRAFFIC CONTROL SHALL INCLUDE DETOUR SIGNING FOR EXIT RAMP CLOSURES IN ACCORDANCE WITH OMUTCD.

2. DRUMS OR BARRICADES SHALL BE SPACED AT 50 FOOT CENTERS. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS FOR THE LANE CLOSURES DURING DAYLIGHT HOURS ONLY.

3. TYPE C STEADY BURNING BARRICADE WARNING LIGHTS SHALL BE ERECTED ON DRUMS OR BARRICADES FOR NIGHT LANE CLOSURES. MAXIMUM SPACING SHALL BE 50' CENTER TO CENTER IN ADVANCE OF THE WORK AREA AND 200' CENTER TO CENTER WITHIN THE LIMITS OF THE WORK AREA.

4. THE WORK TRUCK SHOWN AT THE BEGINNING OF THE WORK AREA SHALL BE IN PLACE AND UNOCCUPIED WHENEVER MEN ARE WORKING WITHIN THE WORK AREA. THIS TRUCK SHALL BE MOVED FROM THE PAVEMENT WHENEVER WORKMEN ARE NOT IN THE WORK AREA. OTHER PROTECTIVE DEVICES MAY BE USED IN LIEU OF THE WORK TRUCK SHOWN WHEN APPROVED BY THE ENGINEER.

5. THE SPACINGS BETWEEN CONSTRUCTION AND MAINTENANCE SIGNS SHOWN ON THIS DETAIL MAY REQUIRE ADJUSTMENTS (INCREASES OR DECREASES) TO ASSURE THAT THEY ARE POSITIONED NO CLOSER THAN 200 FEET TO EXISTING SIGNS AS DETERMINED BY THE ENGINEER.

6. See sheet 22 when work can be confined to 8" from the edge of pavement leaving adequate pavement for traffic on ramp.

OHIO DEPARTMENT OF TRANSPORTATION	
LANE CLOSURE IN DECELERATION LANE	DATE 8-3-79