

STATE OF OHIO
DEPARTMENT OF HIGHWAYS

F-629(12)

PART I OF II
FOR PART II SEE AUG-29-2.78
S-SU-497(II)

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	F-629(12)	

AUGLAIZE COUNTY
AUG-29-1.04
AUG-33-2.71

1
635

CONVENTIONAL SIGNS

COUNTY LINE	_____
TOWNSHIP LINE	_____
SECTION LINE	_____
CORPORATION LINE	_____
PROPERTY LINE	_____
FENCE LINE	_____
CENTER LINE	_____
POLE LINE	_____
RAILROAD	_____
HEDGE	_____
DRAIN PIPE (NEW)	_____
DRAIN PIPE (OLD)	_____
GUARD RAIL (NEW)	_____
GUARD RAIL (OLD)	_____
TREES & STUMPS	_____
WORK LIMITS	_____
R/W WITH LIMITED ACCESS	_____
R/W WITHOUT LIMITED ACCESS	_____
EXISTING RIGHT OF WAY	_____
EXISTING & PROPOSED RIGHT-OF-WAY	_____

LINE DATA
SR. 29

BEGIN WORK STA. 53+00
BEGIN PROJECT STA. 55+00
END PROJECT - END WORK STA. 112+07.71
NET LENGTH OF PROJECT S.R. 29 5,707.71 Lin. Ft. or 1.081 Miles
NET LENGTH OF WORK S.R. 29 5,907.71 Lin. Ft. or 1.118 Miles

USR. 33

BEGIN WORK - BEGIN PROJECT - STA. 112+07.71 S.R. 29 BACK - STA. 143+03.21 USR. 33 AHEAD
END PROJECT STA. 330+00
END WORK STA. 331+50

Add Exist. USR. 33 - Sta. 105+00 to Sta. 178+00 = 7,300.00 Lin. Ft.
Add Lambert Rd. - Sta. 3+00 to Sta. 25+23.19 = 2,223.19 Lin. Ft.
Add Lambert Rd. Conn. - Sta. 10+27.38 to Sta. 14+00 = 372.62 Lin. Ft.
Add S.R. 11G - Sta. 42+35 to Sta. 85+00 = 4,265.00 Lin. Ft.
Add River Rd. Relocat. - Sta. 7+50 to Sta. 30+02.78 = 2,252.78 Lin. Ft.
Add River Rd. Connection at Sta. 18+76.65 on Prop. River Rd.
Sta. 17+78.74 to Sta. 22+00 = 421.26 Lin. Ft.
Add River Rd. Connection at Sta. 53+49.36 Prop. S.R. 11G
Sta. 42+50 to Sta. 46+46.20 = 396.20 Lin. Ft.

Add S.R. 6G Sta. 660+40 to Sta. 688+00 = 2,760.00 Lin. Ft.
NET LENGTH OF PROJECT USR. 33 18,696.79 Lin. Ft. or 3.541 Miles
NET LENGTH OF WORK USR. 33 18,846.79 Lin. Ft. or 3.569 Miles
GRAND TOTAL LENGTH OF PROJECT 24,404.50 Lin. Ft. or 4.622 Miles
GRAND TOTAL LENGTH OF WORK 44,745.55 Lin. Ft. or 8.474 Miles

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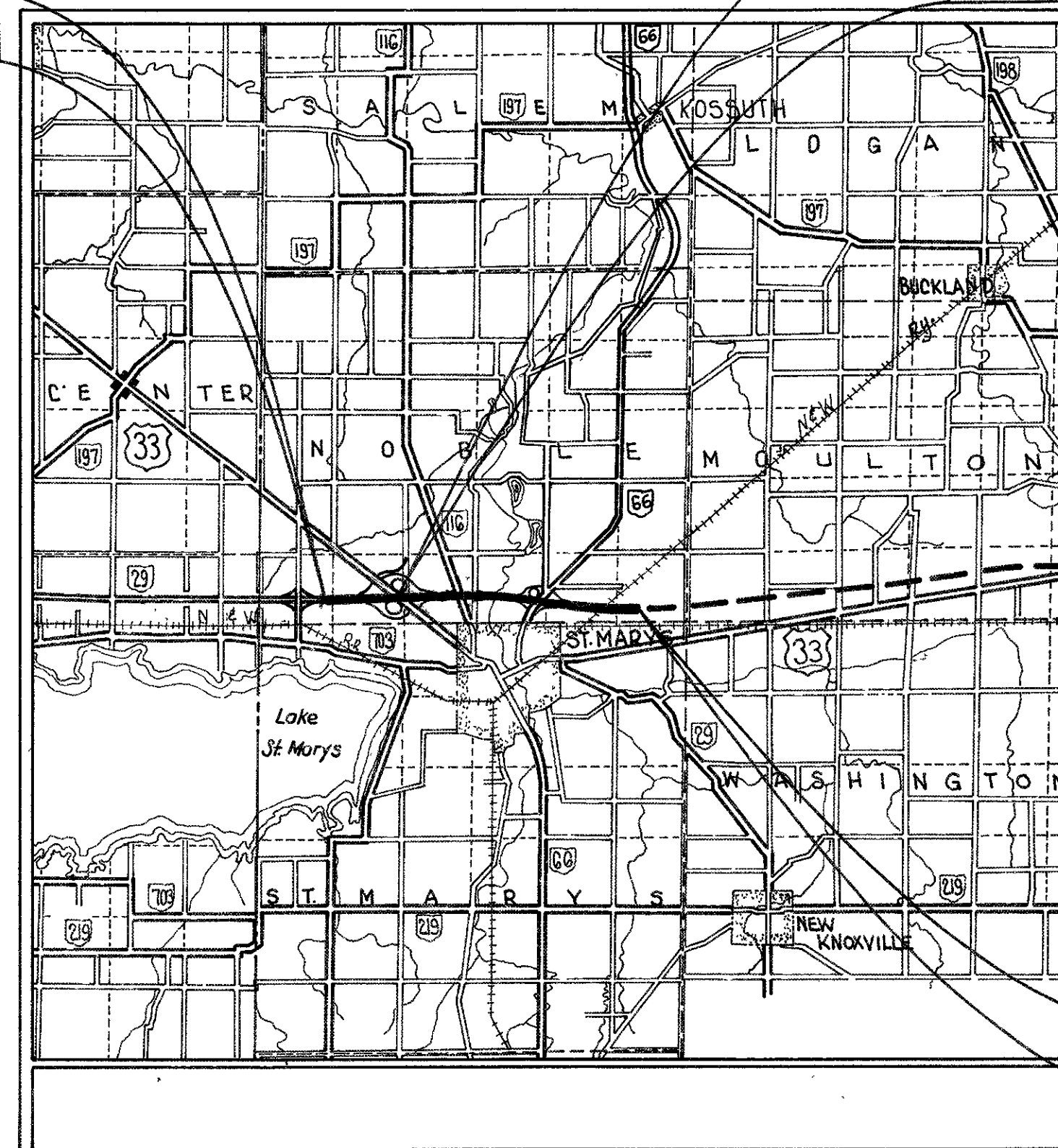
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NOTE: The following sheets have been deleted from these plans: 195-199; 205-206; 237-241; 465-467, 508, 511, 52, 598, 599 & 600

SUPPLEMENTAL SPECIFICATIONS			
Nº	DATE	Nº	DATE
SEE	PART II		

AUG-29-1.04
AUG-33-2.71
AUGLAIZE COUNTY
NOBLE TOWNSHIP
GRADE SEPARATION WITH N&W RY.
CITY OF ST. MARYS

BEGIN PROJECT SR. 29
STA. 55+00 SLM. 1.04



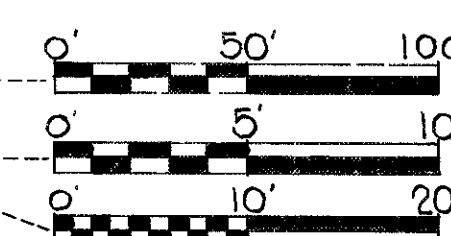
MAP 0 1 2 3 MILES

LOCATION MAP

PORTION TO BE IMPROVED
STATE HIGHWAYS
OTHER ROADS
DETOUR

PLAN
PROFILE HORIZONTAL
PROFILE VERTICAL
CROSS SECTIONS

SCALES



END PROJECT
SR. 29 STA. 107+07.71
BEGIN PROJECT
USR. 33 STA. 143+03.21

END PROJECT
STA. 330+00 SLM. 6.25

STANDARD DRAWINGS	
Nº	DATE
SEE PART II	

LIMITED ACCESS

THIS IMPROVEMENT IS ESPECIALLY DESIGNED FOR THROUGH TRAFFIC AND HAS BEEN DECLARED A LIMITED ACCESS HIGHWAY OR FREEWAY BY ACTION OF THE DIRECTOR OF HIGHWAYS IN ACCORDANCE WITH THE PROVISIONS OF SEC. 5511.02 OF THE REVISED CODE OF OHIO.

~1969 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 OF THE HIGHWAY TO TRAFFIC AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE SET FORTH ON THE PLANS AND ESTIMATES.

APPROVED
DATE 7-5-69 DIVISION DEPUTY DIRECTOR
Oliver M. Leppert

APPROVED
DATE 7-14-70 ENGINEER OF BRIDGES
C.H. Altrater

APPROVED
DATE 7-15-70 ENGINEER OF LOCATION & DESIGN
R.E. Gattlin

APPROVED
DATE 7-16-70 DEPUTY DIRECTOR OF DESIGN & CONSTRUCTION
George J. Shorpyu

APPROVED
DATE 7-24-70 DEPUTY DIRECTOR OF RIGHT OF WAY
T.H. Toward

APPROVED
DATE 7-27-70 DEPUTY DIRECTOR OF PLANNING & PROGRAMMING
Thomas M. Major

APPROVED
DATE 7-27-70 FIRST ASSISTANT DIRECTOR
F.W. Wilson

APPROVED
DATE 7-27-70 DIRECTOR OF HIGHWAYS
P.E. Mahan

DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
BUREAU OF PUBLIC ROADS

APPROVED:

DIVISION ENGINEER

DATE

MICROFILMED
JAN 17 1985

FILE AUGLAIZE COUNTY-29/33-1.04/2.71

NUMBER
DATE OF LETTING
CONTRACT Nº

LIGHTING NOTES

FED RD DIVISION	STATE	PROJECT	
2	OHIO		483 635

AUGLAIZE COUNTY
AUG. -29 ÷ 1.04
AUG. -33 ÷ 2.71

625.03 GENERAL: Electrical service will be furnished by: MIDWEST ELECTRIC CO., P.O. BOX 10, ST. MARYS, OHIO 45885

625.05 LIGHT POLES: As each pole is erected on its foundation the handhole cover and/or transformer base door shall be installed and closed to prevent dirt and debris from entering.

625.06 LIGHT POLE FOUNDATIONS: Where subsurface obstructions are encountered, the Engineer may require the Contractor to:

1. Remove the obstruction, or
2. Replace the excavated material and relocate the foundation as directed by the Engineer.

Also where solid rock is encountered, the remaining depth to be excavated may be decreased as directed by the Engineer to a maximum of 50 percent.

625.07 LUMINAIRES: Luminaires predominately illuminating a main line roadway shall be positioned perpendicularly thereto.

625.11, 713.09 PULL BOXES: Pull boxes shall be 18" diameter circular and the top projection above finished grade shall be 1" maximum in lieu of 1 1/2" minimum as shown on HL-3.

625.12 TRENCH: Without prior approval of the Engineer, excavations for trenches shall not exceed 12" (inches) in width

enclosed in plastic bags, by taping, or by other approved means until final connections are made. Payment for all protective sealing, taping, bagging, etc., both temporary and final shall be included in the bid price for the respective item involved.

713.11 LUMINAIRES FOR MERCURY LAMPS: 400 watt luminaires shall be equipped with integral 400 watt regulator ballast dual-voltage rated at 240/480 volts, and connected for 480 volts operation; and shall be General Electric, M400; M⁶ Graw-Edison, "Unistyle"; Westinghouse, OV-25; or other approved equal.

713.14 LAMPS FOR LUMINAIRES: Mercury lamps shall be General Electric, "Bonus Line"; Westinghouse, "Lifeguard"; Sylvania, "Rough Service"; or other approved equal.

713.15 CABLE CONNECTORS AND CONNECTOR KITS:

LAMP RATING FUSE RATING

1- 400 Watt 6- Amperes

713.19-713.20 SERVICE POLE AND CONTROL CENTER COMPONENTS: The fused safety disconnect switch and lighting contactor shall be 3 pole, 30 amp, 600 volt AC with single fuse clips. And shall be square DW939FA609A, Columbus Electric Works CEW17SS4630, TW/CO Engineering Co. T33030SS or approved equal.

Photoelectric cell and mounting bracket shall be Tork 2000 B w/mounting bracket, Fisher-Pierce 6660 w/mounting bracket, General Electric C402G200 w/ A99G5 mounting brackets, or approved equal.

625.13 - 713.04, 713.05, 713.06 AND 713.07 CONDUIT: All conduit shall be rigid ferrous metal Type II or Type III.

625.14 AND 625.15 CABLE AND DUCT-CABLE: All cables, except structure grounding system cable, entering an accessible enclosure such as a pull box, junction box, light pole base, device housing, etc., for the purpose of being terminated or connected to another cable shall be identified in such enclosure with the material or devices specified in 713.18. Payment for cable identification shall be included in the unit price bid for cable.

All cables shall be without splices between terminations, except that exothermically welded joints in structure grounding cable shall not be considered as splices for this purpose.

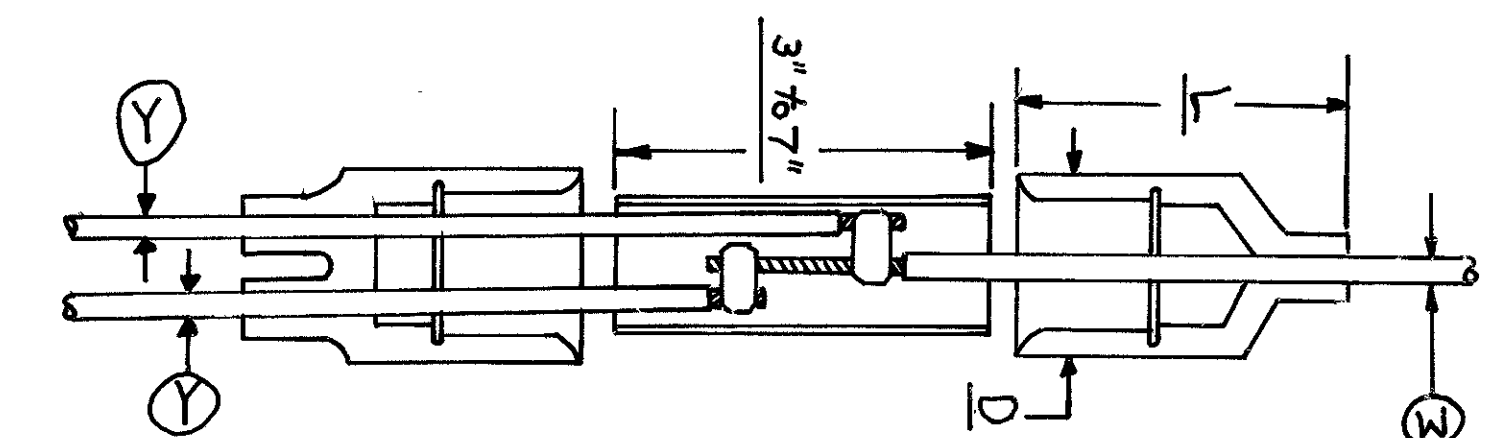
SEALING: Conduit and duct-cable terminals must be sealed as specified in 625.13 and 625.15 immediately upon completion of each individual installation. When the installation of conduit and duct-cable is intermittent, they shall be protected by temporary sealing or capping throughout the progress of the work. This may vary from overnight, between work days to extended periods of time when partial installations are left dormant before final completion.

Empty conduits shall be capped immediately after installation and remained capped until insertion of pull wire or cable. All cable connector kits and exposed cable ends shall be adequately protected by being

713.10 STRUCTURE JUNCTION BOXES: All junction boxes in structure parapets shall be OZ Cat. No YR161206, Thomas and Betts No 10998, Killark Type WBB or other approved equal.

Expansion fittings for conduit on structures shall be OZ Type AX or Spring City Type AF for 4 inch conduit movement

625.14 AND 625.25 METHOD OF MEASUREMENT, BASIS OF PAYMENT: Payment for junction boxes in Type "B" Raceway conduit on structures shall include the 2" diameter conduit shown on Junction Box Detail, Sh. 484. Installation of conduit under existing pavement, per lineal foot in place, and shall include excavation, drilling or jacking, labor, tools, equipment and cleanup as per 603.09; the conduit shall be paid for as per 625.24(b).

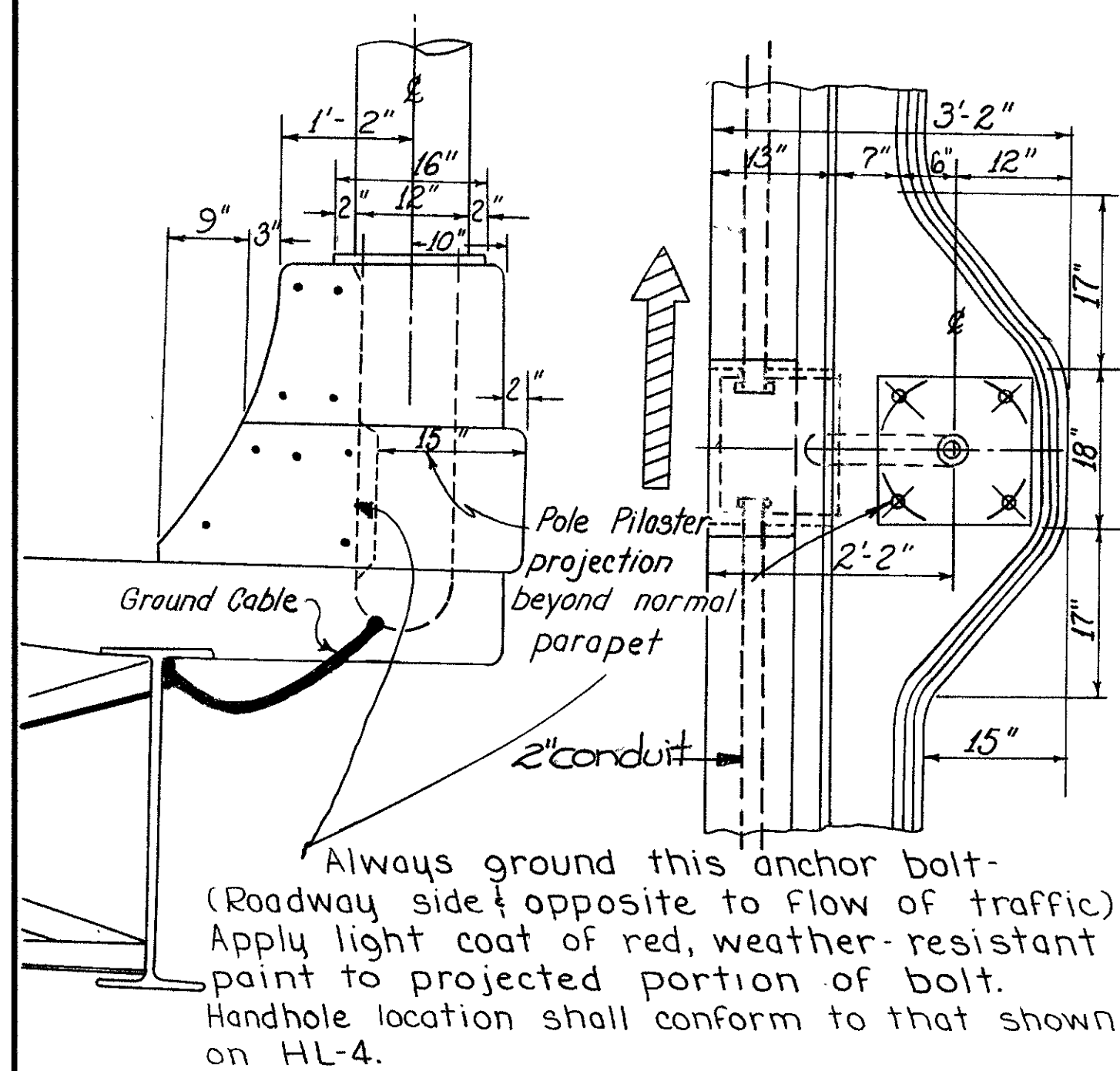


D	L	CABLE DIAMETER		SYMBOL FOR		AUG 600V CABLE	
		Min.	Max.	CO	WD	PER 713.02	
1 1/2	4 1/4	.330"	.430"	D	D	No. 6	No. 4
"	"	.420"	.525"	E	E	No. 2	No. 40
"	"	.575"	.725"	F	F	No. 1	No. 250 MCM
"	"	.775"	.925"	N.A.	N.A.	300 MCM	400 MCM
"	4 3/4	.975"	1.185"	N.A.	N.A.	300 MCM	400 MCM
"	4 3/4	1.175"	1.385"	N.A.	N.A.	600 MCM	750 MCM

N.A. = Not Available
⊙ Note: Both wires with symbol ⊙ must be of equal size for a given connection.

TYPE VII B CONNECTOR KIT

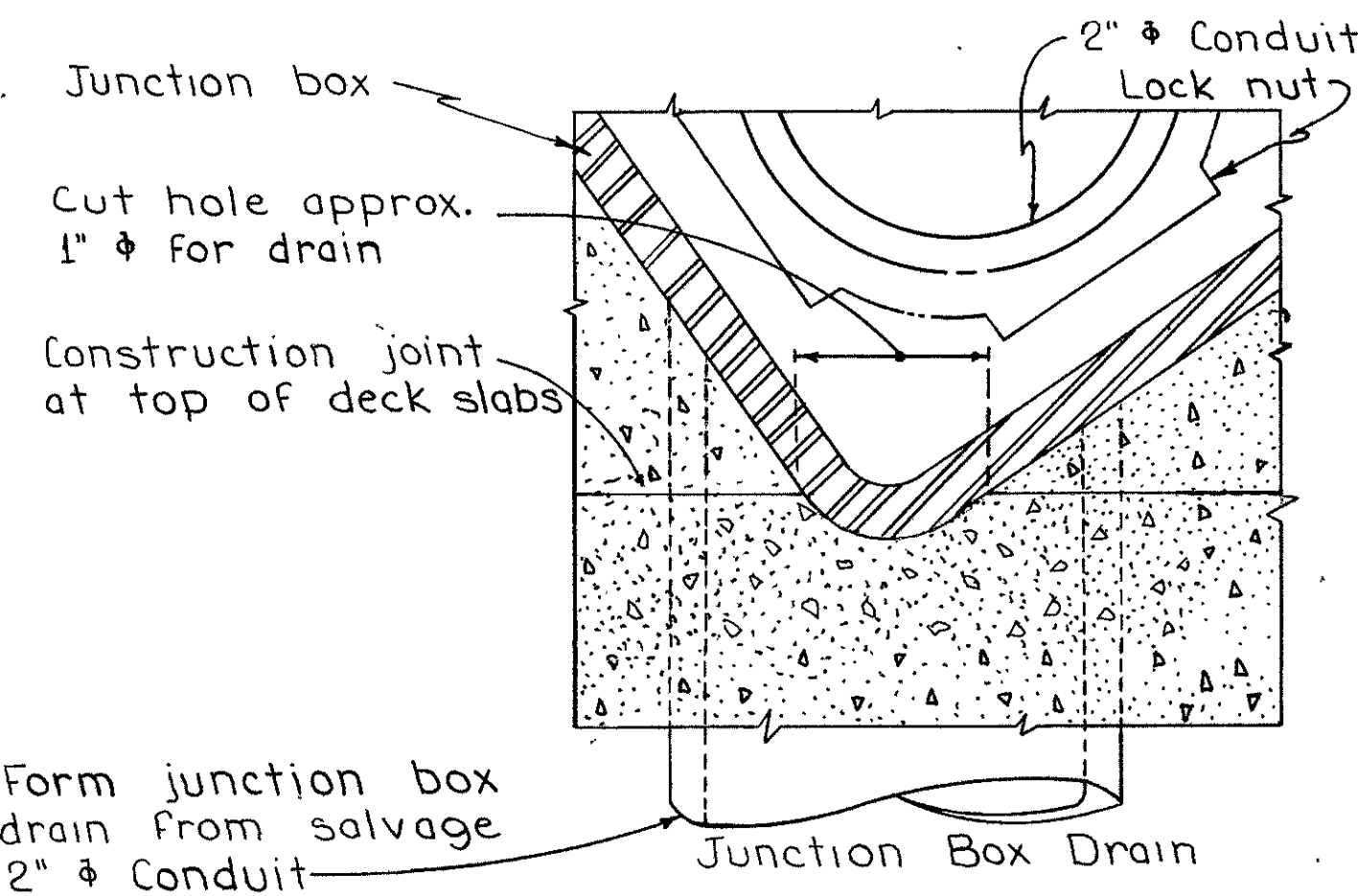
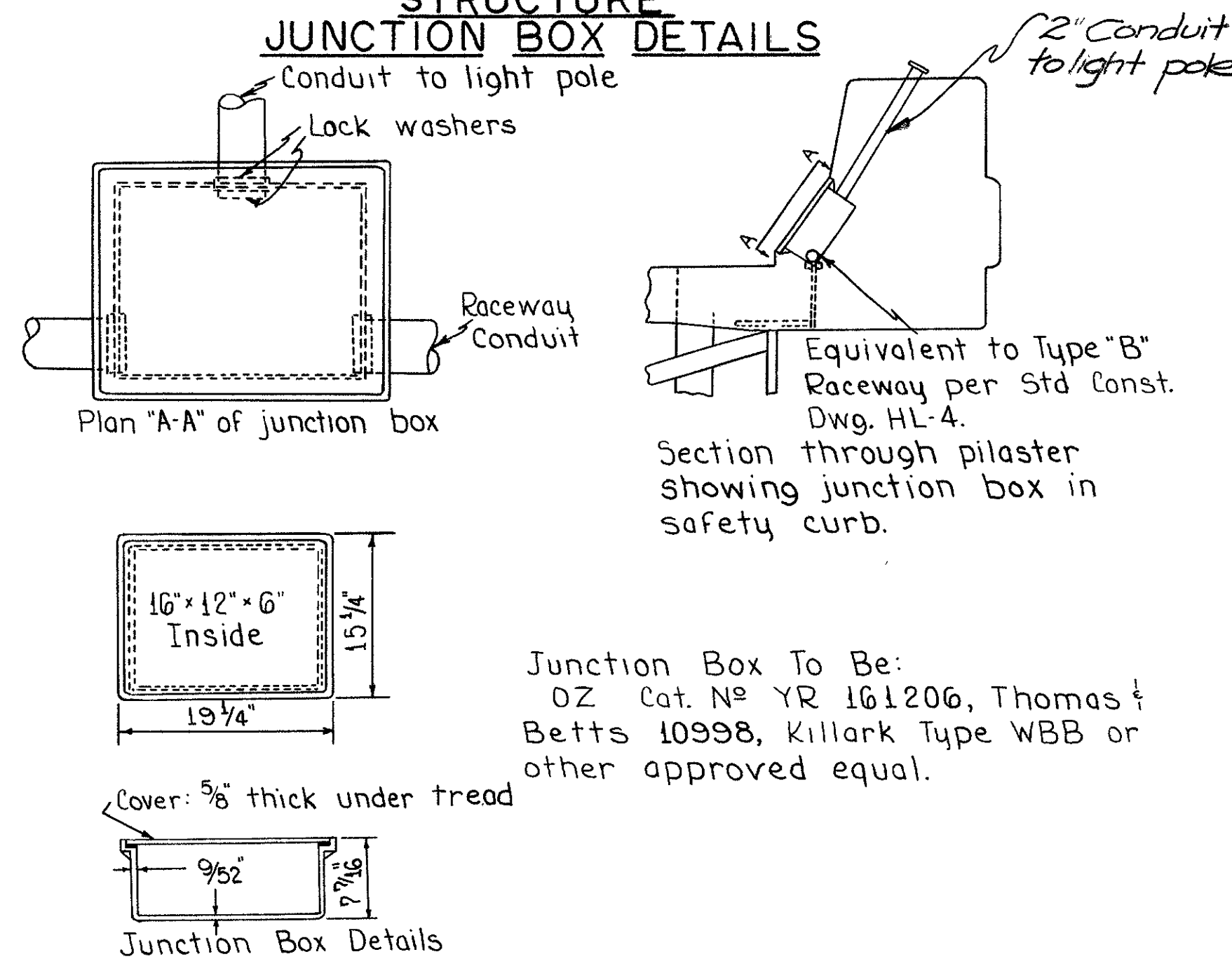
FOUNDATION FOR LIGHT POLES MOUNTED ON BRIDGES WITH SAFETY CURB



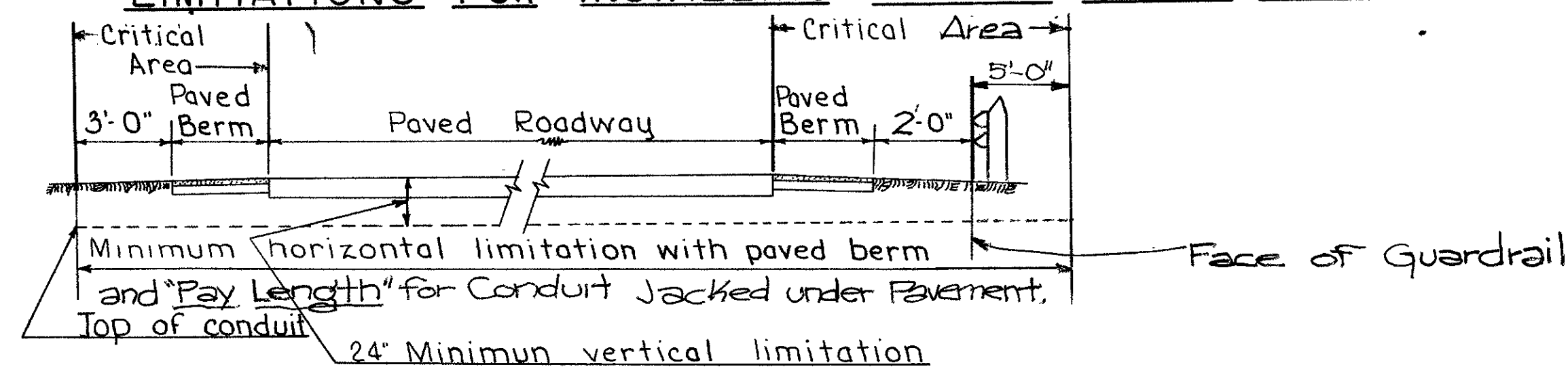
For Anchor Bolt dimensions see the
Mechanical Properties Table, Sheet 493.

LIGHTING DETAILS

STRUCTURE JUNCTION BOX DETAILS

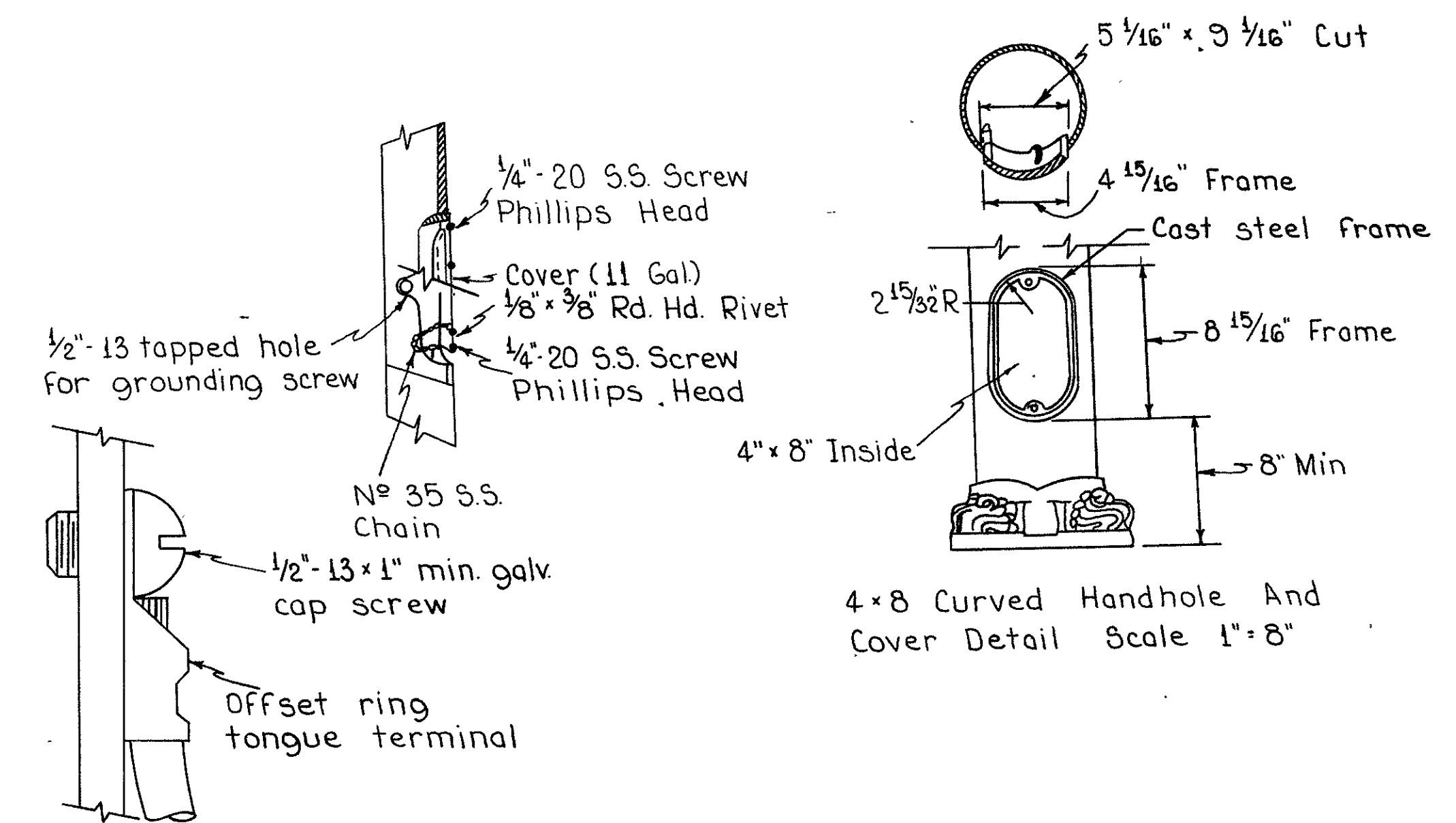


LIMITATIONS FOR INSTALLING CONDUIT UNDER EXIST. PAV'T.



Access (Push) pits or trenches for setting up drilling or jacking
equipment shall be located outside horizontal limitation. Conduit,
drills, jacks, etc. shall be kept below verticle limitation.
CRITICAL AREA: When undermining in this location provide steel $\frac{3}{4}$ " surface
plates, corrugated pipe sleeves, shoring or other approved means to
prevent cave-in.

4x8 CURVED HANDHOLE FRAME & COVER DETAIL



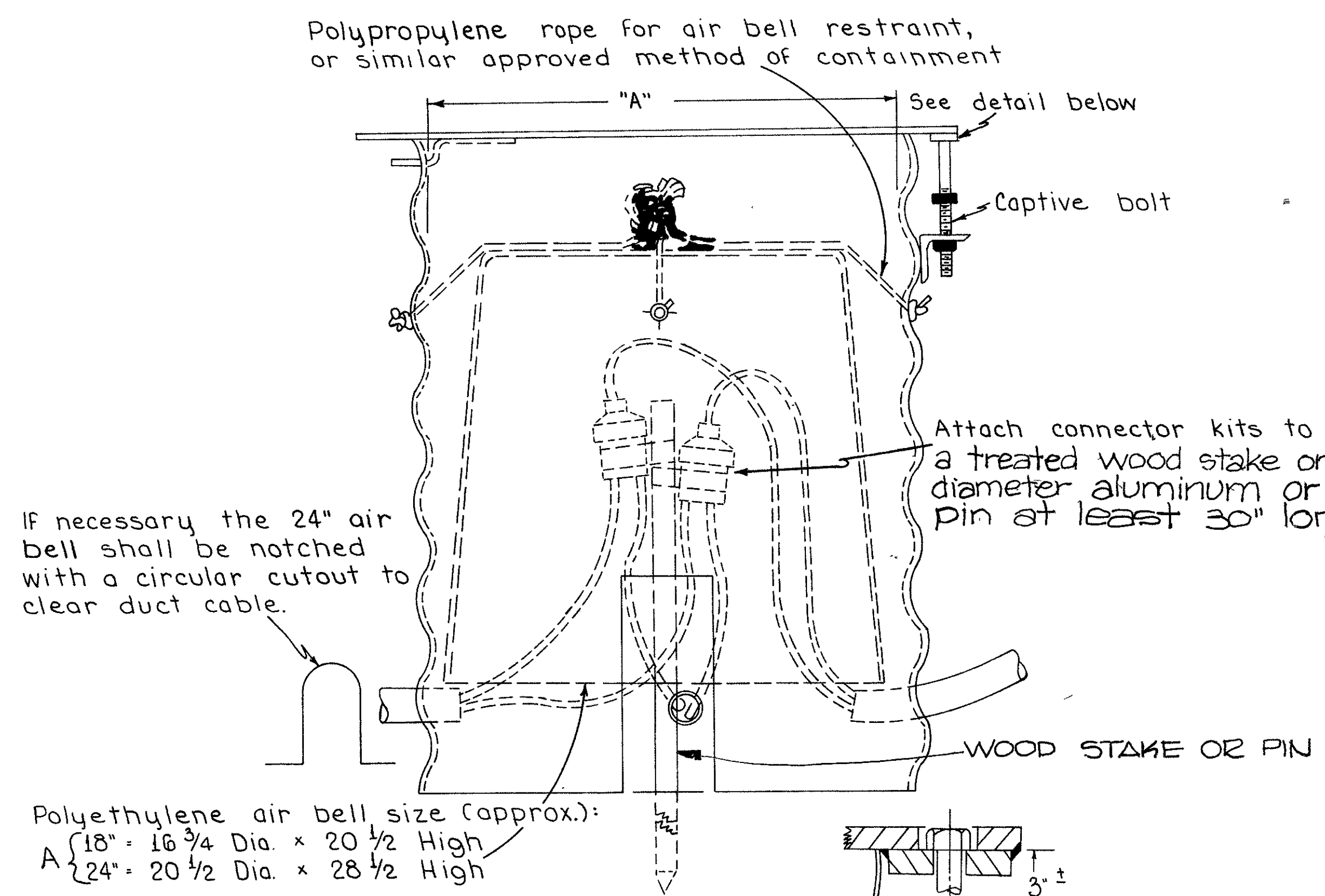
LIGHTING DETAILS

AUGLAIZE COUNTY
AUG. - 29 ÷ 1.04
AUG. - 33 ÷ 2.71

FED. RD. DIVISION	STATE	PROJECT
2	OHIO	

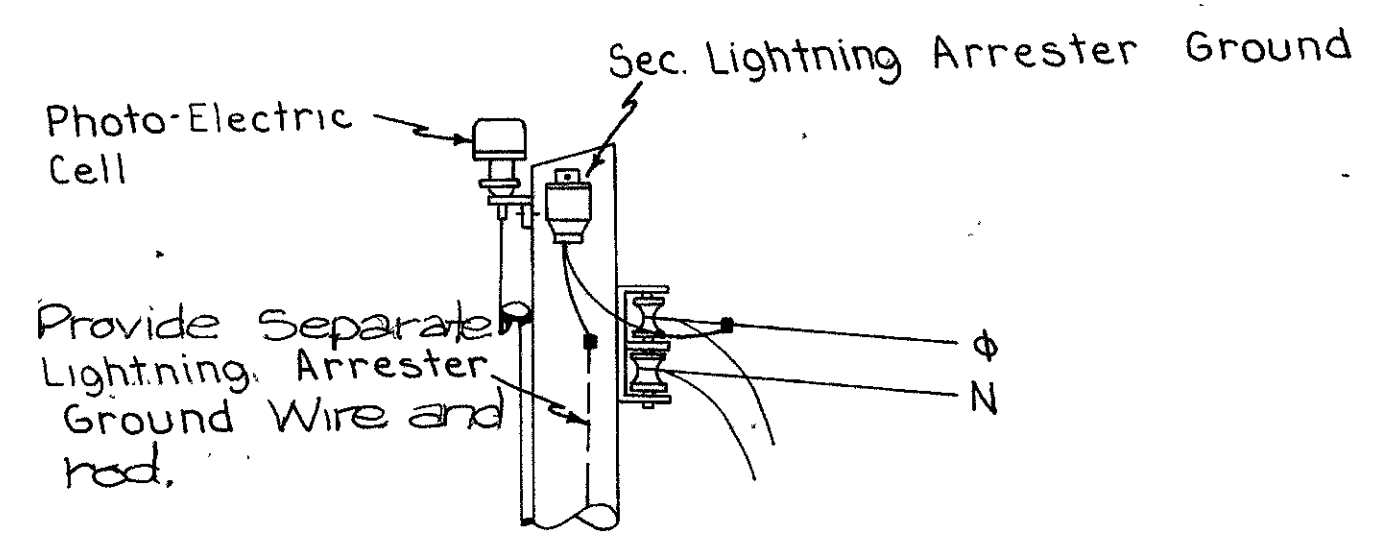
485
635

ASSEMBLY OF AIR BELL IN CORRUG. METAL PULL BOX COVER ATTACHMENT AND CONNECTOR KIT SUPPORT



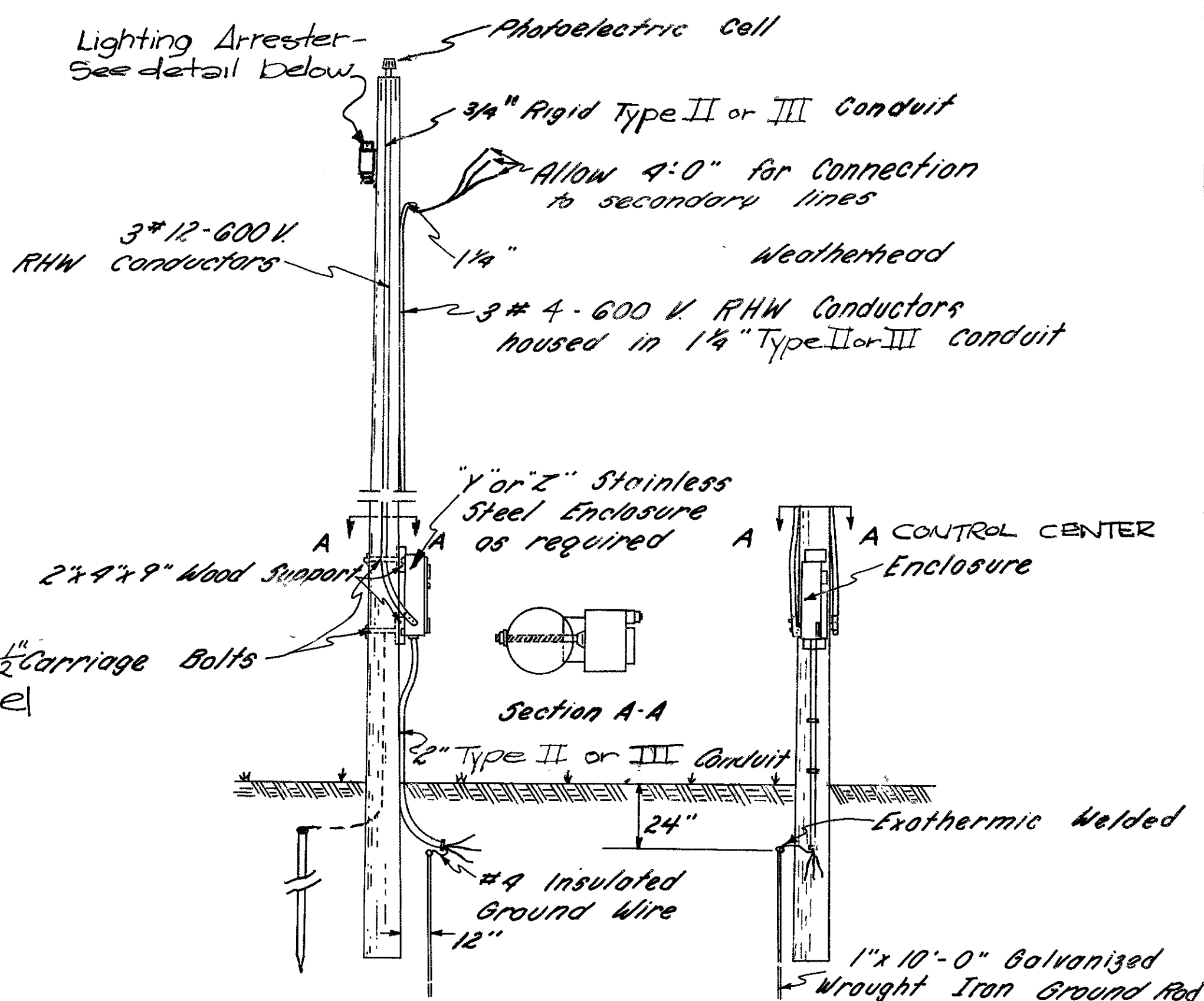
NOTE
The above method of pull box cover attachment, using a single bolt, shall be alternate to the two bolt attachment shown on std. construction drawing HL-3.

POLE MOUNTED LIGHTNING ARRESTER



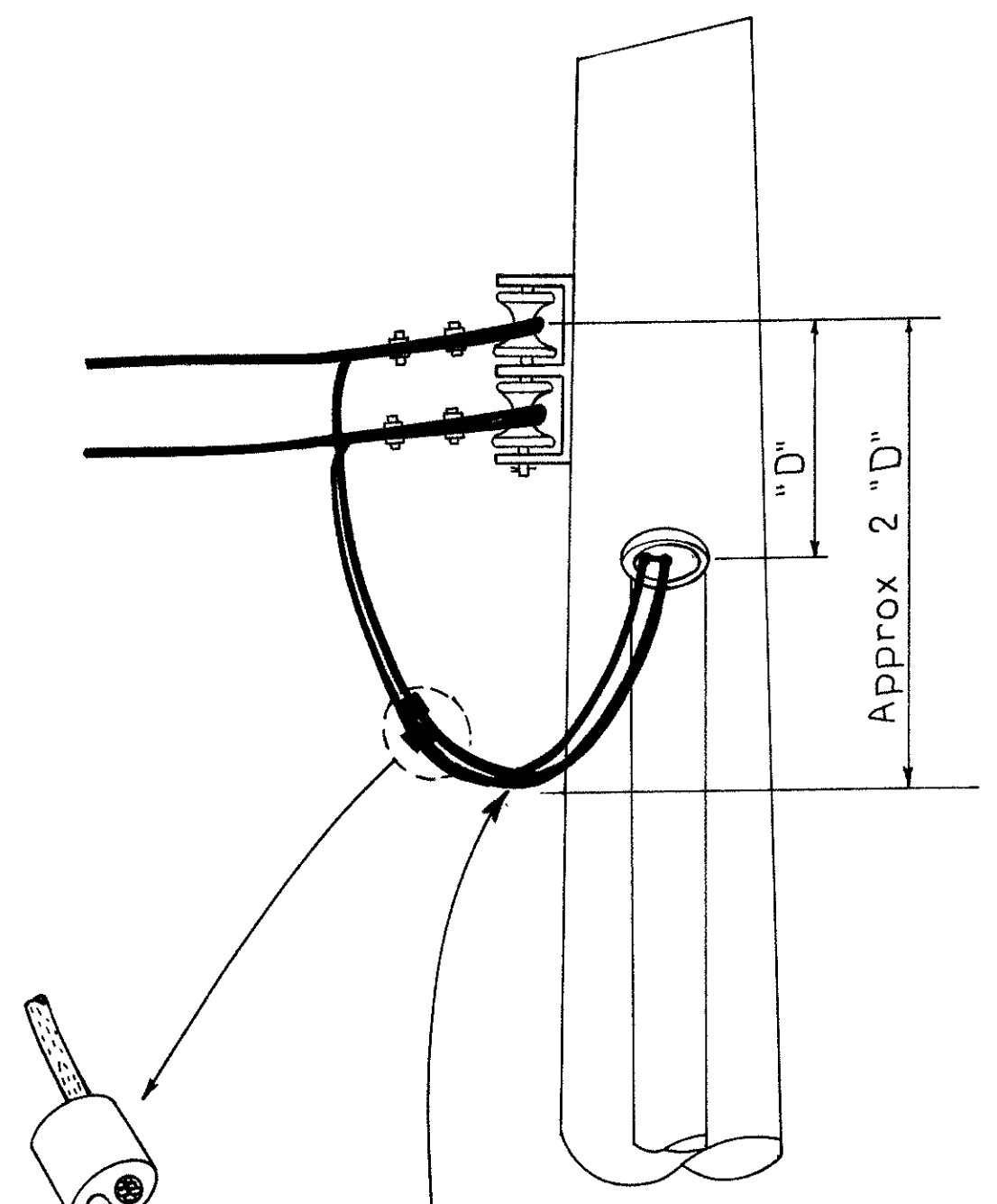
SECONDARY CIRCUIT

TYPICAL SERVICE POLE - No. 1 & No. 2

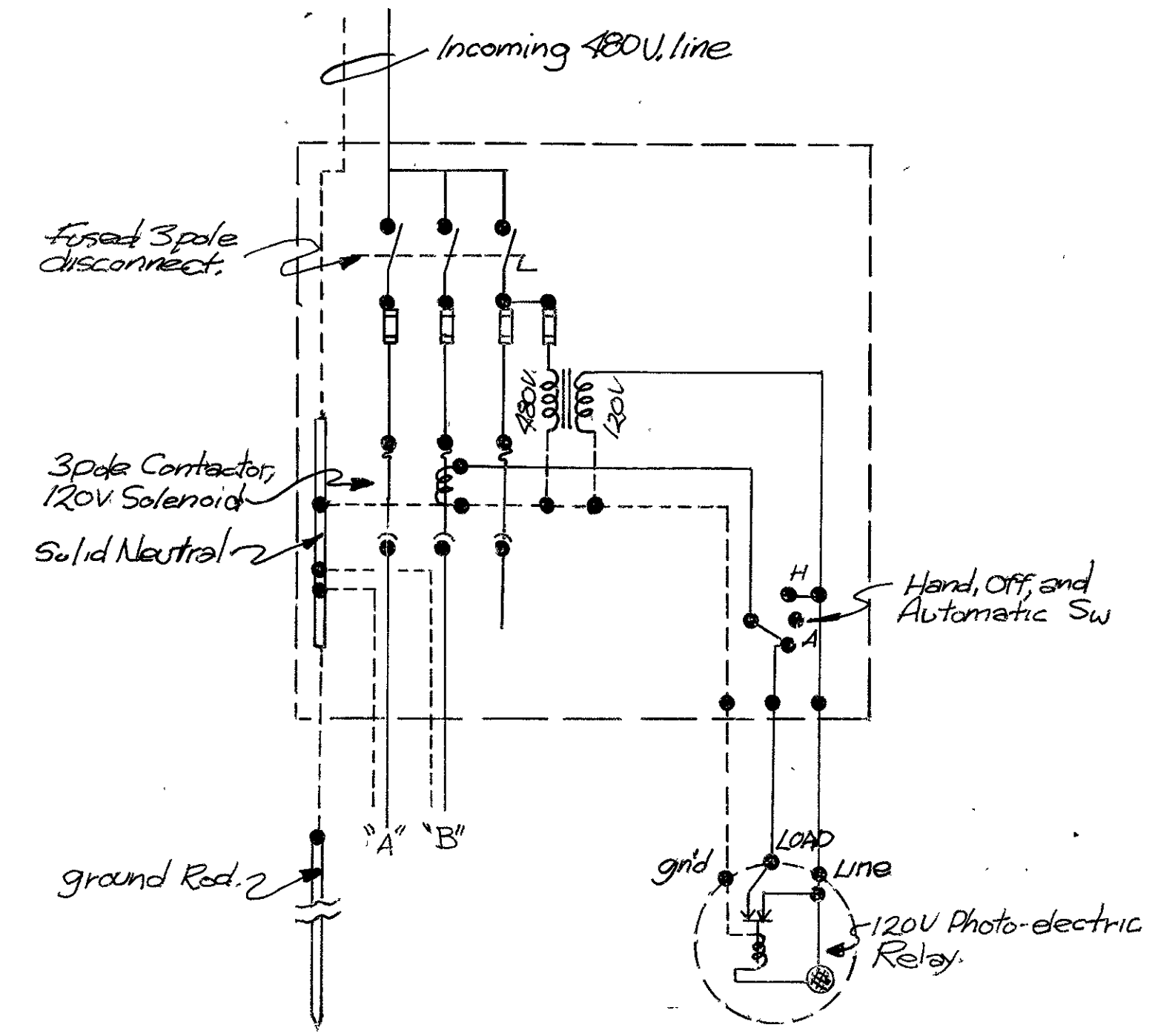


NOTE: Straps to be on 4'-0" centers; mounted with 1/4" x 2" cadmium plated wood screws (minimum). All hardware to be galvanized or cadmium plated.

SERVICE DROP DRIP LOOP



Typical compression connection before tape is applied. Notching of insulation not required.



Control Enclosure Wiring Diagram

AUGLAIZE COUNTY
 AUG. -29-1.04
 AUG. -33-2.71

NOTES

FOUNDATION: Foundations for light poles shall be poured in-place concrete (vibrated and spaded 5/109). Each foundation must meet minimum depths as specified, but additional depth may be required by the Engineer because of existing soil conditions. The 30" foundation (detailed hereon) shall be used for light poles having a bottom shaft diameter of more than 10" through 12". The 24" foundation (detailed on Standard Drawing HL-1) shall be used for all light poles having a bottom shaft diameter of 6.0" through 10". See HL-1 for Foundation depth. Rotate reinforcing bars to clear conduit.

Drainage grooves on foundation top, as detailed hereon, shall be required on all foundations even though they do not appear on Standard Drawing HL-1.

ALUMINUM TRANSFORMER BASES: All bases shall be cast from ASTM B-26 or B-108 Alloy SG 70A-T6.

Base AT-A shall be used with anchor base poles of 6" through 9.2" dia. inclusive, thru 34'-6" Mtg. Hgt. Base AT-B shall be used for anchor base poles above 10" through 12" diameter. Base AT-C shall be used for anchor base poles with bottom diameter 9" through 10".

The transformer bases shall be capable of resisting the following moments in foot pounds with load applied at a distance of 20' feet above the top of the base without collapsing or rupturing.

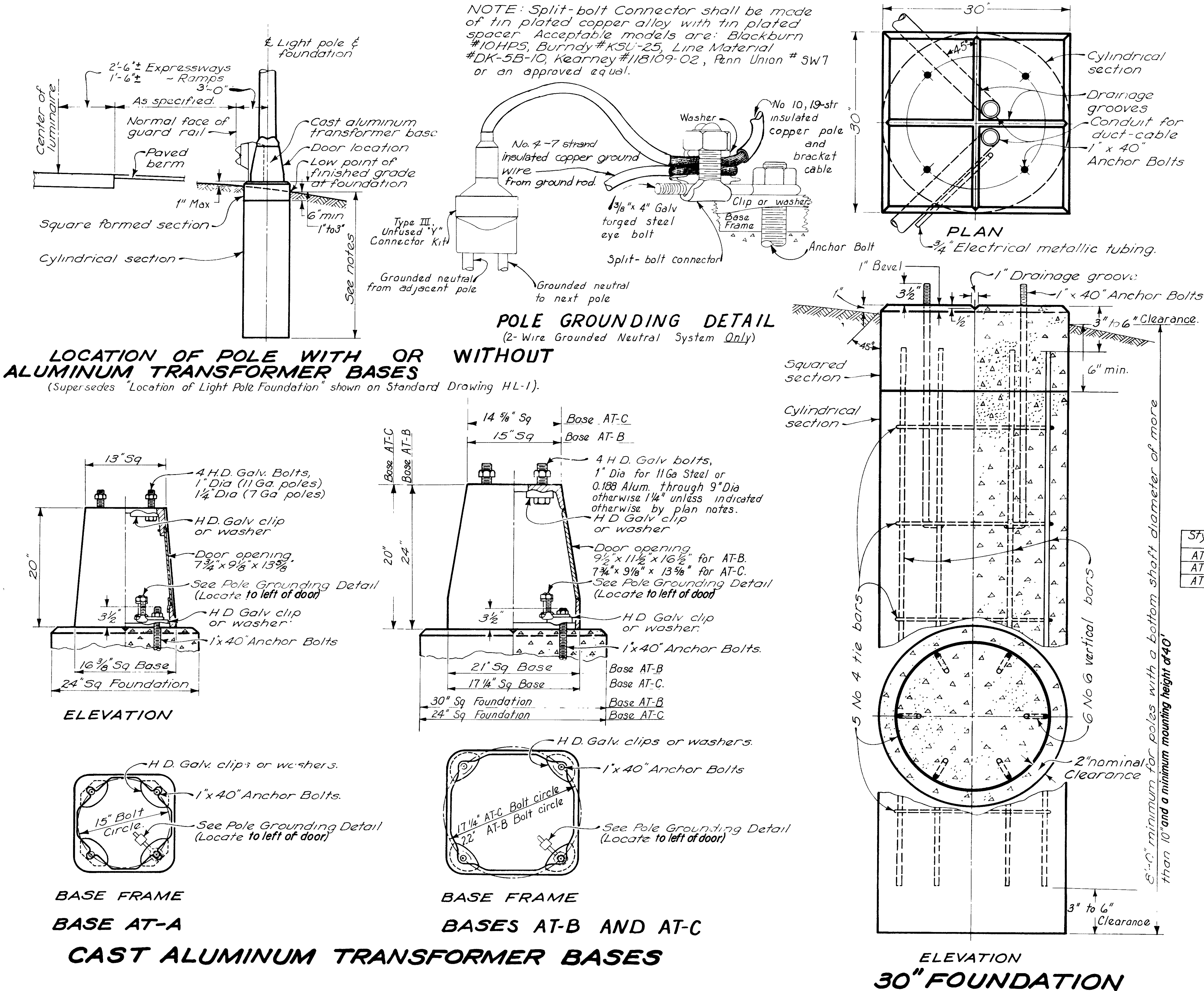
Style	Bolt Circle	Base Height	Moment-Foot Pounds	Arm Length
AT-A	15"	20"	37,000	15' Max
AT-C	17 1/4"	20"	56,000	10' to 25'
AT-B	22"	24"	52,000	10' to 25'

Both the bottom of the cast steel pole base and the top of the aluminum transformer base shall be coated or painted with a heavy film of zinc rich paint (Federal Specification TT-P-641-Type II) to reduce galvanic action between the two dissimilar metals.

PAYMENT: 30" Light Pole Foundations shall be paid for at the unit price bid per each foundation.

Aluminum base complete with hardware, zinc rich paint, and installation shall be included with ground-mounted poles for payment.

* AT-C Base can be used with 8" or 8 1/2" dia base poles, if desired, in order to reduce maintenance items.

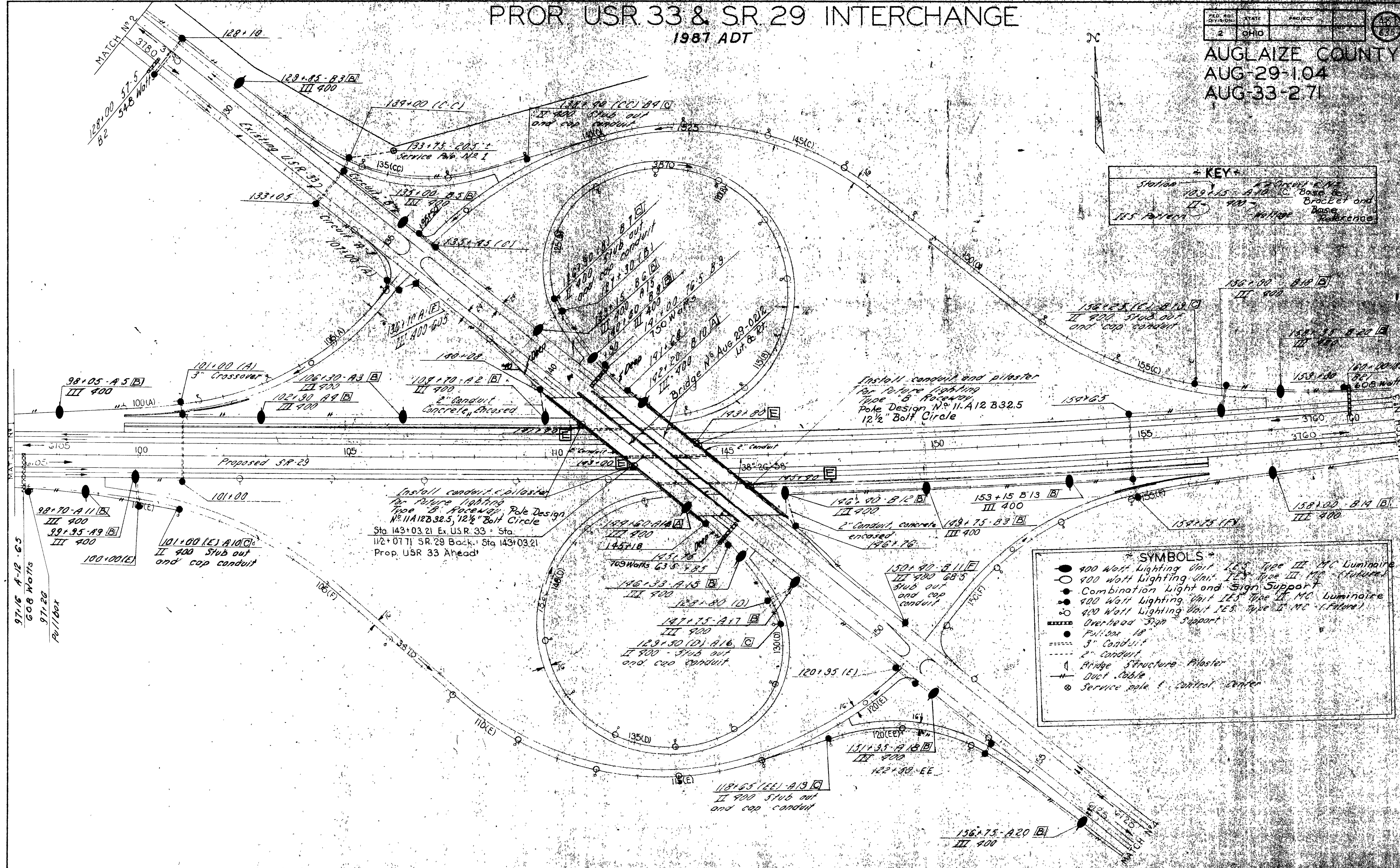


Revised: 7-1-69
 Revised: 1-24-69
 Revised: 5-16-68
 Issued: 11-6-67

PROR USR 33 & SR 29 INTERCHANGE 1987 ADT

FED. RD. DIVISION	STATE	PROJECT
2	OHIO	

AUGLAIZE COUNTY
AUG-29-104
AUG-33-271



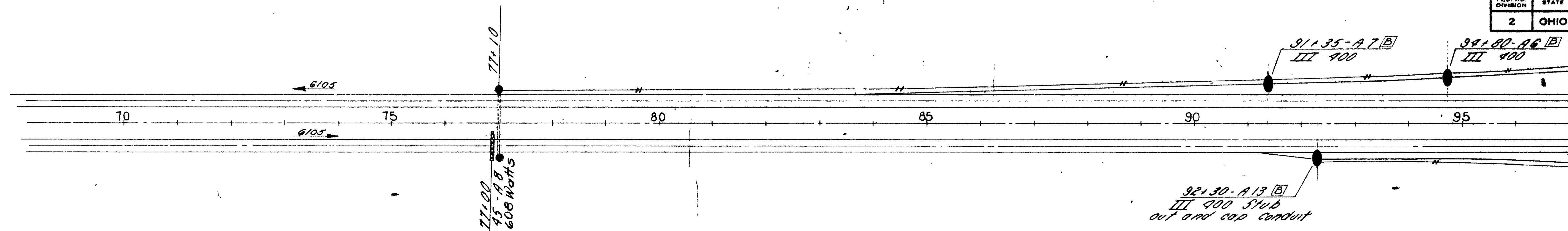
KEY	
Station	109+15 - A 10 (C) Base for Bracket and Base Reference
115+00	115+00

SYMBOLS	
●	400 Watt Lighting Unit 125 Type III MC Luminaire
○	400 Watt Lighting Unit 125 Type II MC Luminaire (Future)
●	Combination Light and Sign Support
●	400 Watt Lighting Unit 125 Type II MC Luminaire
○	400 Watt Lighting Unit 125 Type II MC Luminaire (Future)
—	Overhead Sign Support
●	Pullbox 18"
---	3" Conduit
---	2" Conduit
—	Bridge Structure Pilaster
—	Duct Cable
●	Service pole & Control Center

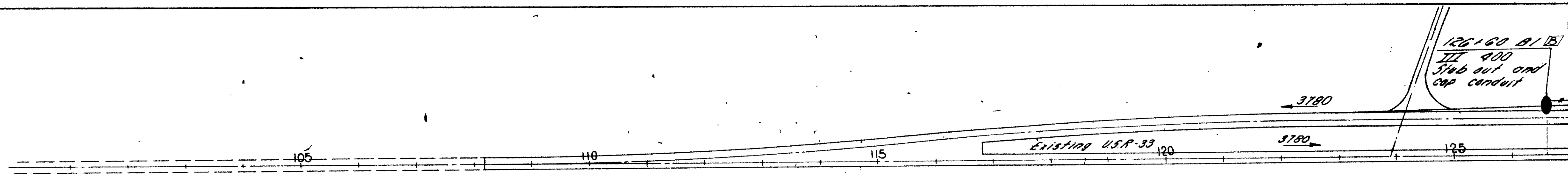
FED. RD. DIVISION	STATE	PROJECT
2	OHIO	

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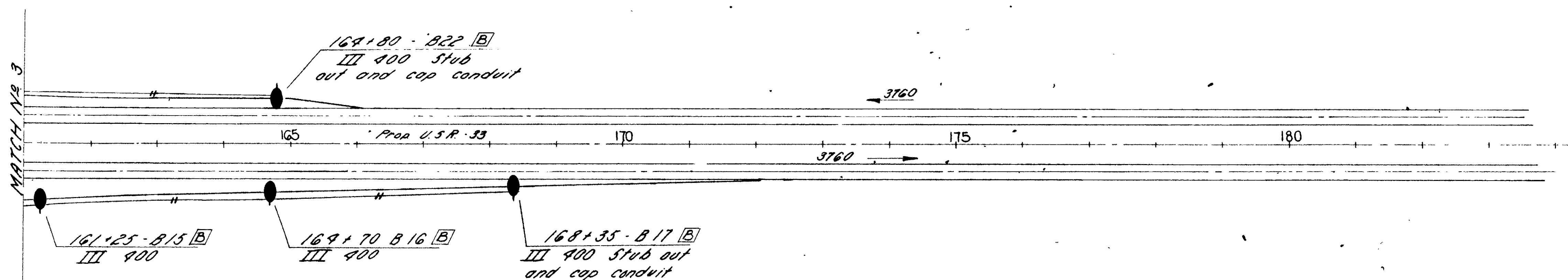
AUGLAIZE COUNTY
AUG-29-1.04
AUG-33-271



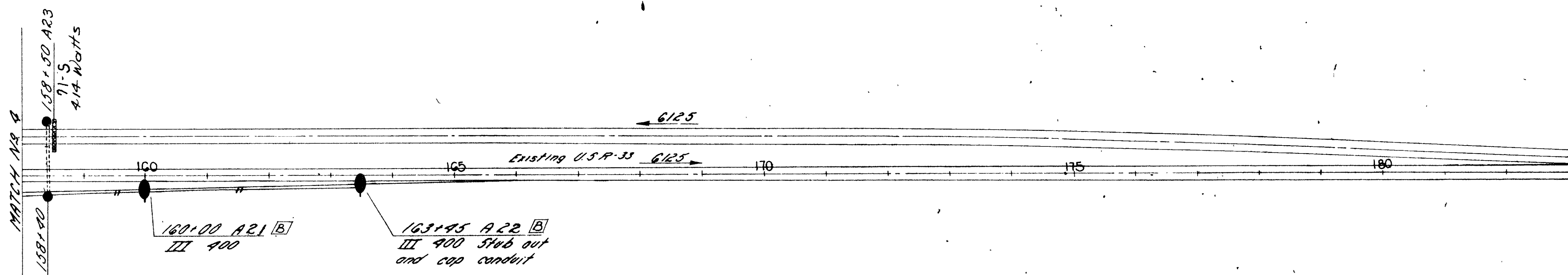
MATCH NO. 1



MATCH NO. 2



MATCH NO. 3




MATCH NO. 4

PROP. USR 33 & SR 29 INTERCHANGE

U.S.R.-33 / S.R.-29 INTERCHANGE LIGHTING QUANTITIES SUB-SUMMARY

AUG/AUG COUNT,
AUG. - 29 ÷ 1.04
AUG. - 33 ÷ 2.71

FED RD DIVISION	STATE	PROJECT	
2	OHIO		



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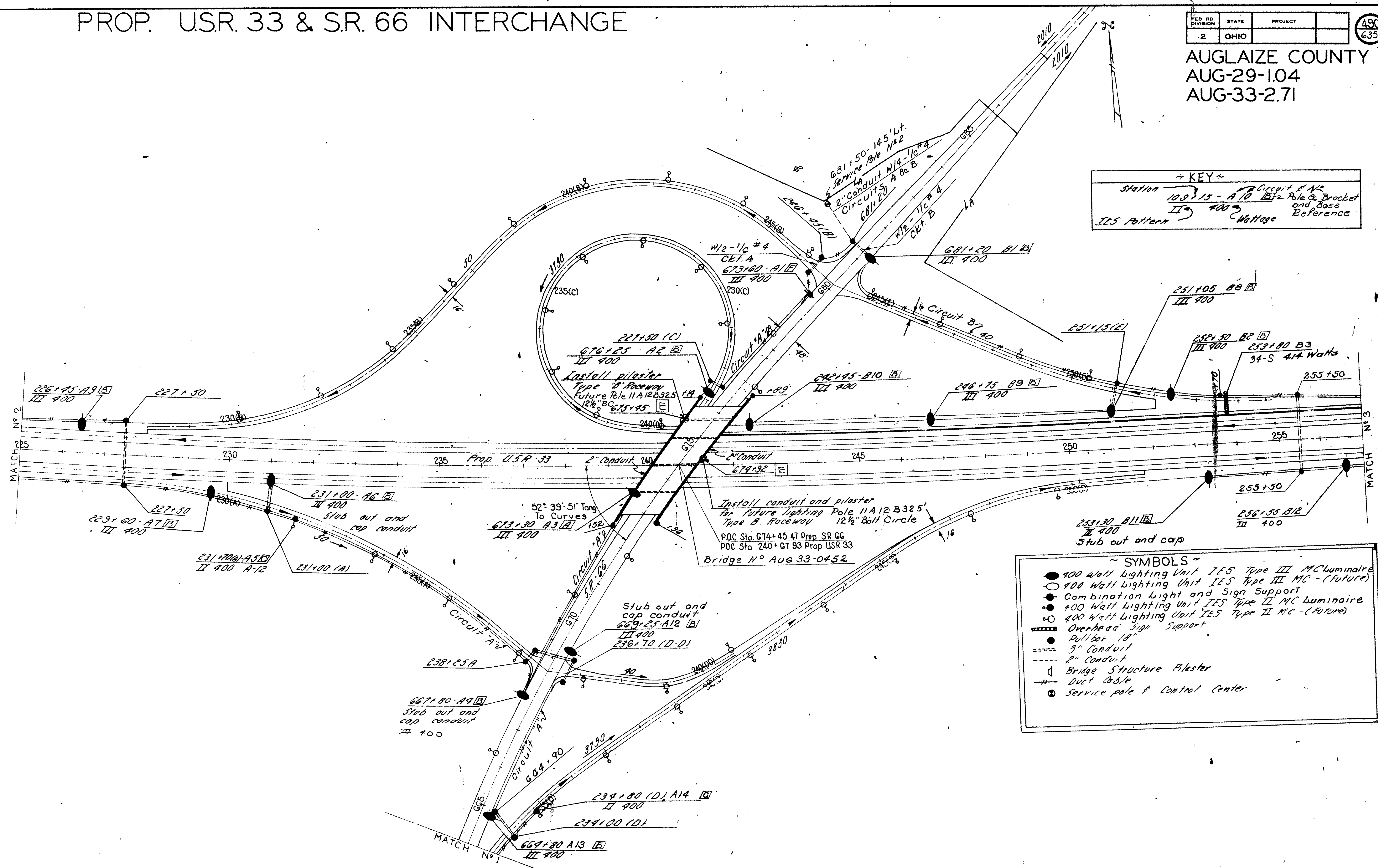
~ U.S.R-33/S.R-29 INTERCHANGE LIGHTING PLANS ~

10-7-68
8-14-69

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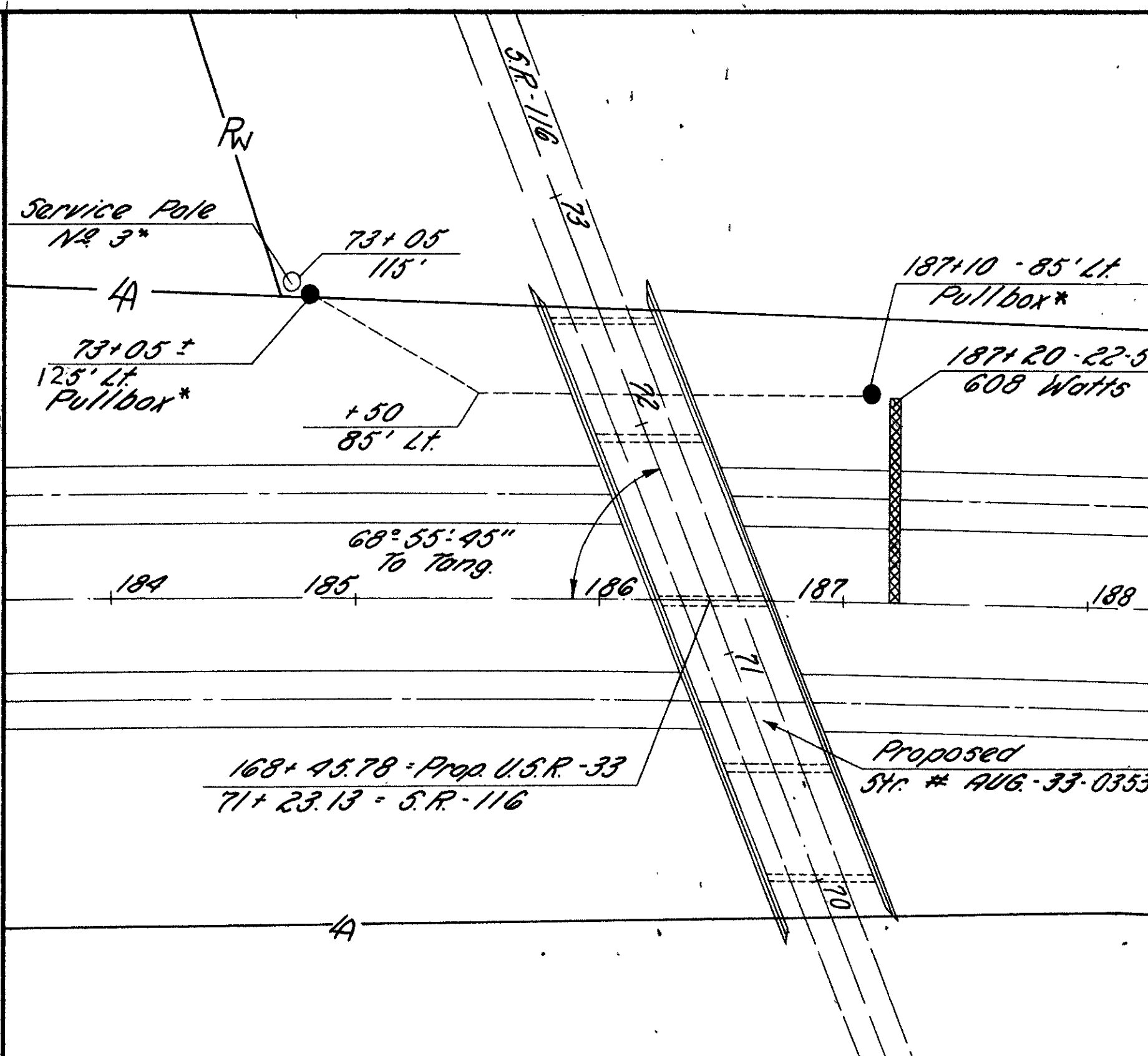
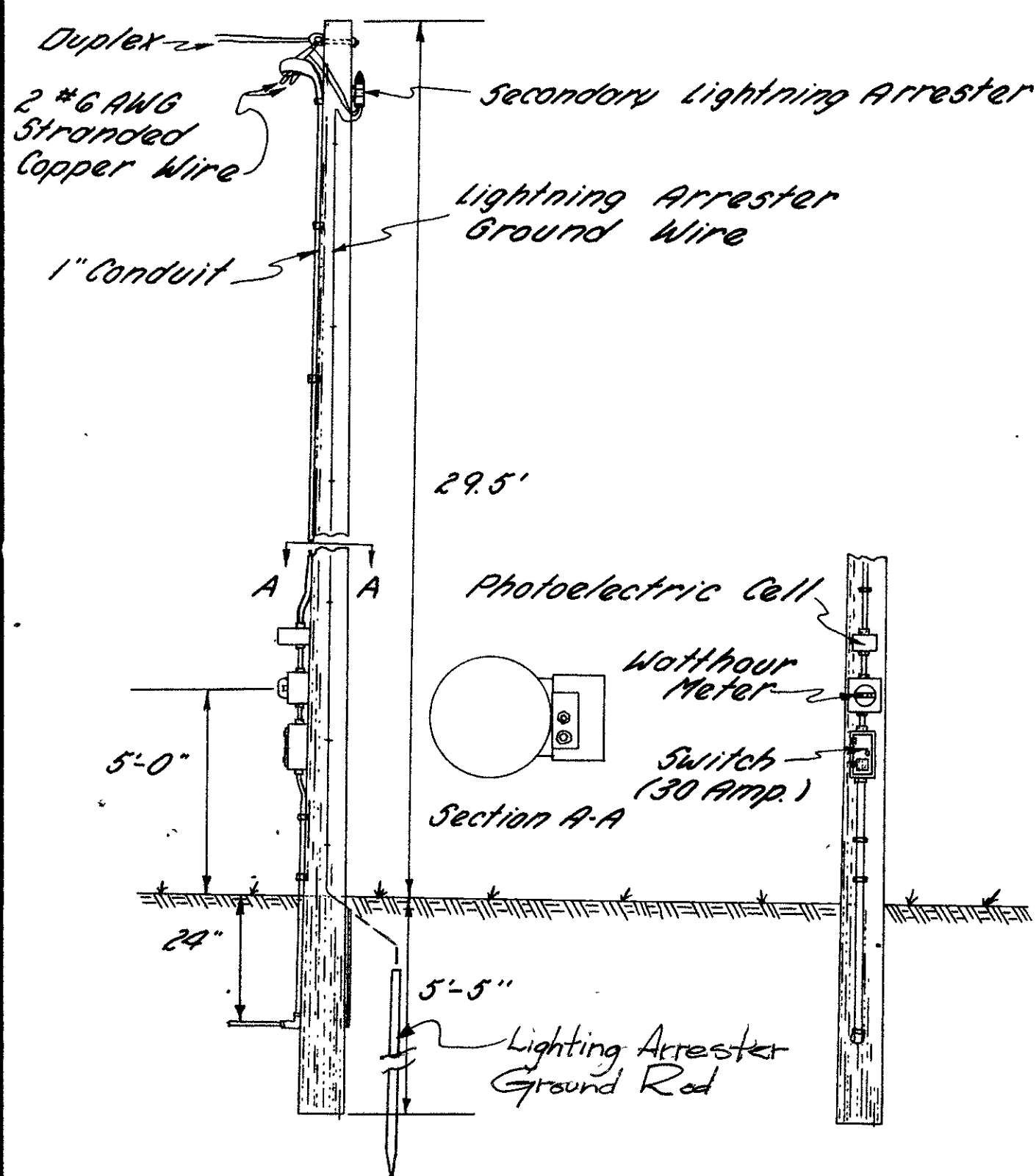
~ KEY ~

Station	Circuit #	Role & Bracket
10.9.15 - A10	100	Reference
II		
125 Pattern		



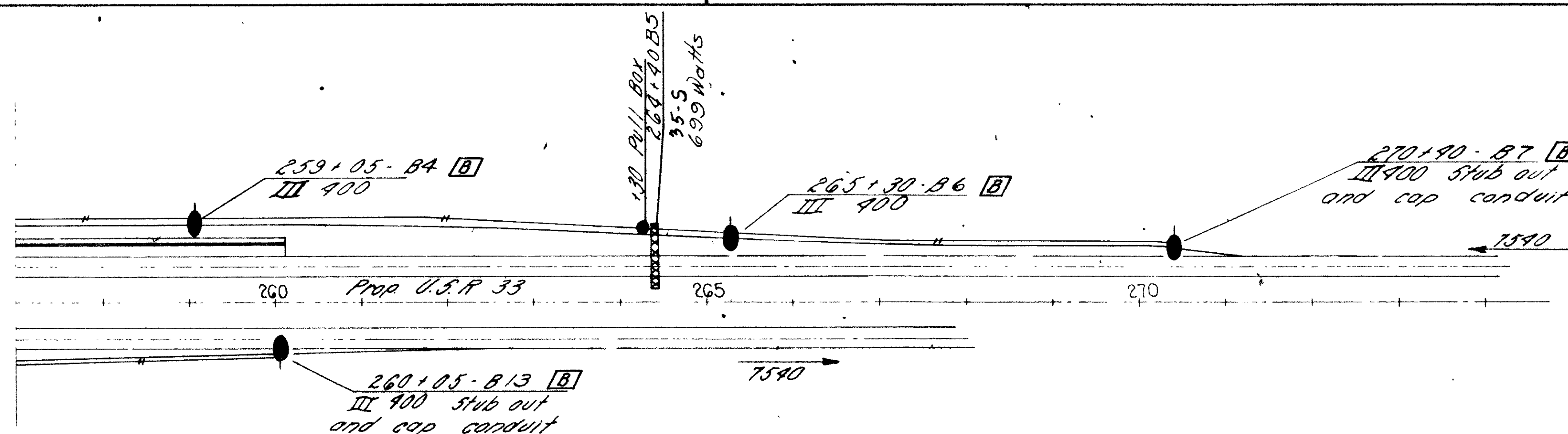
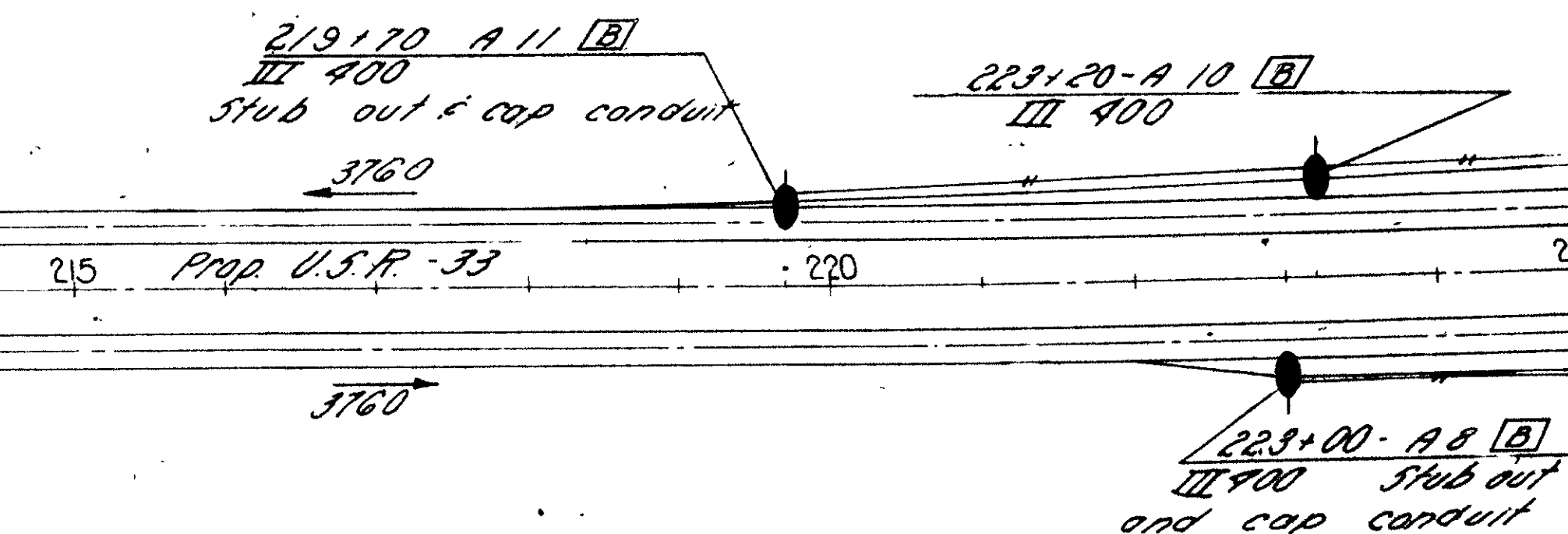
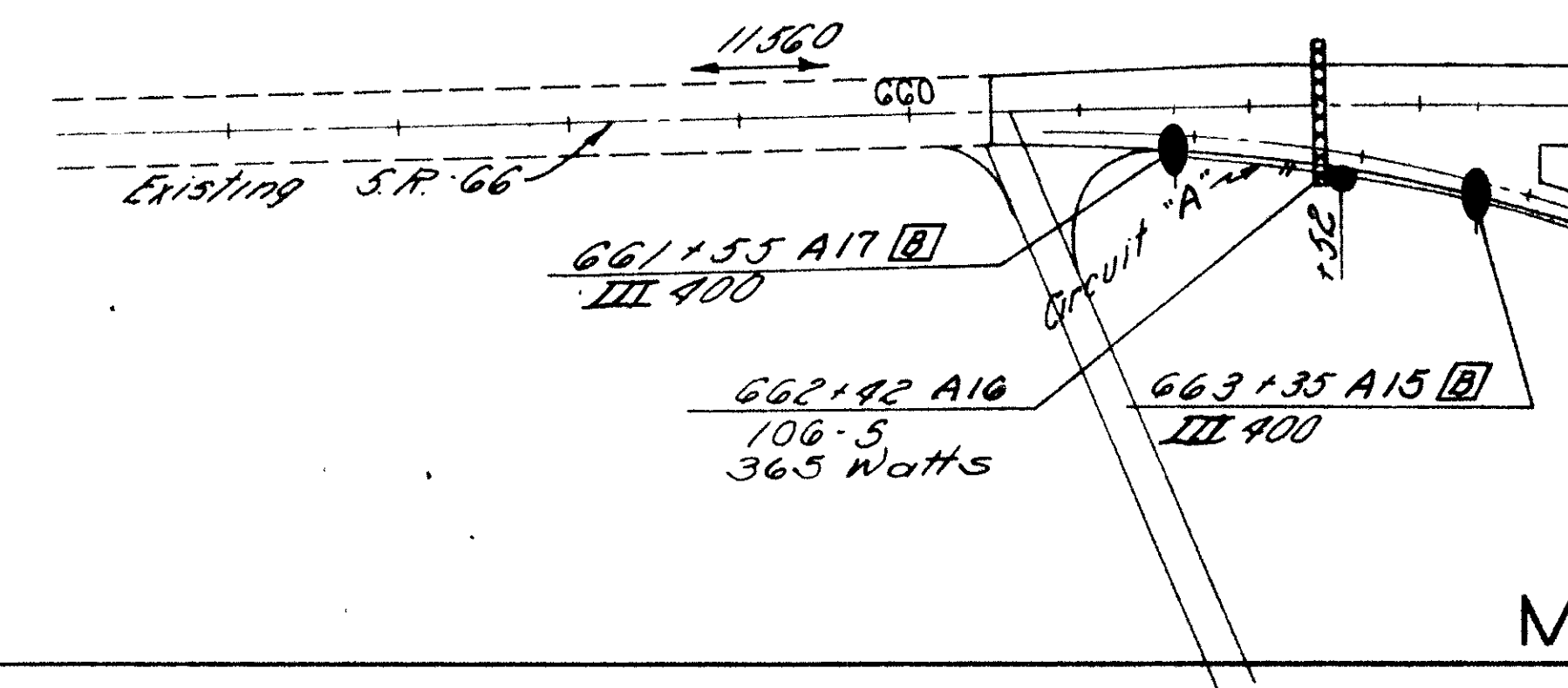
PROP. USR 33 & SR 66 INTERCHANGE

SERVICE POLE NO. 3



Quantities	Description
Lump	* Service Pole & Control Center No. 3
2	* Pullboxes (18" Round) 71309
245 Lin Ft	* Conduit Type II or III (2")
510 Lin Ft	* No. 4 AWG 600 Volt Dist. Circuit Cable
4	* Connector KIT Type I
2	* Ground Rods
245 Lin Ft	* Trench 24" Deep

**These Quantities are carried to and included in the Estimated Lighting Quantities on Sheet No. 493



FED RD DIVISION	STATE	PROJECT	
2	OHIO		

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~ U.S.R.-33/S.R.-66 INTERCHANGE LIGHTING PLANS ~

JSB
8-69
RLB
8-69

AUGLAIZE COUNTY
AUG - 29 - 1.04
AUG - 33 - 2.71

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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635

ESTIMATED LIGHTING QUANTITIES

ITEM	STRUCTURES			SUB TOTAL	ROADWAY			SUB TOTAL	GRAND TOTAL	UNIT	DESCRIPTION	TYPE CODE 6203	Reference Letter
	0412 0412 0432				SHEET NO.								
	SHEET NO.												
	489	489	492		489	492	491						
625					29	23		52	52	Each	Light pole	Design No 11AT15 B342	D
625					7	2		9	9	Each	Light pole	Design No 11AT10 B342	C
625	1	1	1	3					3	Each	Light pole	Design No 7A12B325	A
625					36	25		61	61	Each	Light Pole Foundation (24" x 6'-0" deep)		
625					2	1		3	3	Each	Lighting Bracket Arm - 15'-0"		F
625	1	1	1	3	32	25		57	60	Each	Luminaire Type III 400 Watt 713 11		
625					6	2		8	8	Each	Luminaire Type II 400 Watt 713 11		
625	1	1	1	3	38	26		64	67	Each	Mercury Vapor Lamp 400 Watt 713 14		
625					38	26	2	66	66	Each	Ground Rod		
625	1	1	1	3					3	Each	Bridge Structure Grounding System		
625					36	22	2	60	60	Each	Pull box ; Round 18" ; 713 09		
625					14,115	9147	245	23,507	23,507	Lin Ft	Trench (24" Deep)		
625	508	510	755	1773	110	110	245	465	2238	Lin Ft	Conduit ; 2" Type II or III ; 713 04		
625					150			150	150	Lin Ft	Conduit ; 2" Type II or III ; 713 04, Concrete Encased		
625					1257	714		1971	1971	Lin Ft	Conduit ; 3" Type II or III, 713 04		
625					42			42	42	Lin Ft	3" Conduit Type II or III Jacked under Pavement, as Per plan		
625	1056	1060	784	2900	3434	2882	510	6846	9746	Lin Ft	No 4 AWG 600 Volt distribution circuit cable		
625	90	90	90	270	3490	2400		5890	6160	Lin Ft	Pole and bracket cable No 10 AWG		
625					13190	8663		21,853	21,853	Lin Ft	Duct Cable 600 Volt 14" with (2) No 9 AWG 600 Volt Cables		
625			4	4	38	18	2	58	62	Each	Connector Kit - Type I		
625	1	1	1	3	38	26		64	67	Each	Connector Kit - Type II		
625	1	1	1	3	38	26		64	67	Each	Connector Kit - Type III		
625					34	22		56	56	Each	Connector Kit - Type III B		
625					Lump			Lump	Lump	Lump	Service Pole and Control Center - No 1		
625						Lump		Lump	Lump	Lump	Service Pole and Control Center - No 2		
625							Lump	Lump	Lump	Lump	Service Pole and Control Center - No 3		
625	6	6	6	18					18	Each	Light Pole Anchor "U" Bolt for Structures 713 01		
625	3	3	3	9					9	Each	Structure Junction Box - 16" x 12" x 6"		

MECHANICAL PROPERTIES for LIGHT POLES																	
Reference Letter	Pole Design Number	Shaft Size	Tower Incheff	Gauge	Foundation Anchor Bolts			Arm Length	Nominal Max. Height	Elastic Defl. Above 10' per 100 Lbs	At 4/3 of Yield Stress			At Yield Stress			Transformer Base Style
					Size	Dia Bolt Circle	Pal above Foundation				Load 18' down from top	Total Defl. Inches	Arm at Inches	Load 18' down from top	Total Defl. Inches	Arm at Inches	
A	7A12B325	9"x4.87" x29'-6"	14	7	1 1/2"x8.5"	12.5"	3"	12'	32.5	1.45	983	14.75	50	1474	24.01	2.64	None
B	11AT15B342	9"x4.87" x29'-6"	14	11	1"x40"	15"	3 1/2"	15'	34.2	2.16	659	14.73	50	9.89	24.00	2.64	AT-A
C	11AT10B342	8"x3.87" x29'-6"	14	11	1"x40"	15"	3 1/2"	10'	34.2	3.32	517	17.66	50	7.76	28.89	3.08	AT-A
E	for future Bridge Pole	14"x8.5" x12.5"			1 1/2"x8.5"	12.5"	3"										
F	Bracket Arm: Combination Sign	Light Pole									15'						

GENERAL SUMMARY

FED RD DIVISION	STATE	PROJECT	
2	OHIO		494 635

AUGLAIZE COUNTY
AUG-29-1.04
AUG-33-2.71

ITEM	SHEET NUMBER														ITEM	QUANT	UNIT	
	496	500	500A	511	524	528	529	531										
																		TRAFFIC CONTROL
G20					278										G20	278	Each	Delineator , Type "A-1" Post Mounted
G20					5										G20	5	Each	Delineator , Type "A-1" Bracket Mounted
G20					525										G20	525	Each	Delineator , Type "A-2" Post Mounted
G20					9										G20	9	Each	Delineator , Type "A-2" Bracket Mounted
G21								0.98							G21	0.98	Mile	4" Solid White Center Line
G21								34.93							G21	34.93	Miles	4" Edge Line
G21								0.40							G21	0.40	Mile	4" Lane Line and Center Line
G21								4.60							G21	4.60	Miles	6" Lane Line
G21								2.32							G21	2.32	Miles	6" Yellow Barrier Lines
G21								8809							G21	8809	Lin.Ft.	8" Channelizing Lines
G21						160									G21	160	Lin.Ft.	Stop Lines
G21								3094							G21	3094	Lin.Ft.	Broad Transverse Stripes
G21								7117							G21	7117	Lin.Ft.	Curb Marking
G21								0.06							G21	0.06	Mile	4" Yellow Barrier Line
Special							53								SPECIAL	53	Each	Raised Yellow Reflector Type Pavement Marker
815			1153.7	81											815	1234.7	Sq. Ft.	Sign Erection, Flat Sheet Type, as per plan
815			1378.3		2882										815	4260.3	Sq. Ft.	Sign Erection, Extru-Sheet Type, as per plan
815	350														815	350	Sq. Ft.	Interim Sign Covering
816			27.4	1.2											816	28.6	CuYds	Concrete for Sign Support Foundations (Ground Mounted)
816			778.5	39											816	817.5	Lin.Ft.	Structual Support, 4 Pound Drive Post
816			1047.5	96											816	1143.5	Lin.Ft.	Structual Support, 6 Pound Beam
816			381												816	381	Lin.Ft.	Structual Support, 8 Pound Beam
816			302												816	302	Lin.Ft.	Structual Support, Steel Beam, 10 WF 21
816				1											816	1	Each	Overhead Sign Support, N° 7.4, Design N°1, Span 63'-0"
816				1											816	1	Each	Overhead Sign Support, N° 7.4, Design N°1, Span 65'-0"
816				1											816	1	Each	Overhead Sign Support, N° 7.4, Design N°1, Span 71'-0"
816				2											816	2	Each	Overhead Sign Support, N° 7.4, Design N°1, Span 74'-0"
816				2											816	2	Each	Overhead Sign Support, N° 7.4, Design N°2, Span 84'-0"
816				1											816	1	Each	Overhead Sign Support, N° 7.4, Design N°3, Span 88'-0"
816				1											816	1	Each	Overhead Sign Support, N° 7.4, Design N°3, Span 90'-0"
816				1											816	1	Each	Overhead Sign Support, N° 7.4, Design N°4, Span 97'-0"
816				1											816	1	Each	Overhead Sign Support, N° 7.4, Design N°4, Span 109'-0"
816				3											816	3	Each	Overhead Sign Support, N° 12.24, Design N°4, 20' Arm, Modified Pole 29'-6"
816			14												816	14	Each	Breakaway Sign Support Connection
816			56												816	56	Lin.Ft.	Structual Support, 6 lb. Beam, as per plan
816					108										816	108	Cu.Yd.	Concrete for Overhead Sign Support Foundations
G25					14										G25	14	Each	Ground Rod
G25					4										G25	4	Each	Sign Ballast, Type "A"
G25					10										G25	10	Each	Sign Ballast, Type "B"
G25					3										G25	3	Each	Sign Ballast, Type "C"
G25					12										G25	12	Each	Sign Ballast, Type "D"
G25					19										G25	19	Each	72" Light Fixture with H.O. Lamp
G25					5										G25	5	Each	96" Light Fixture with H.O. Lamp
G25					12										G25	12	Each	72" Light Fixture with S.H.O. Lamp
G25					15										G25	15	Each	96" Light Fixture with S.H.O. Lamp
G25					1										G25	1	Each	0.50 K.V.A. 480/120 Volt Transformer, Type II
G25					3										G25	3	Each	0.75 K.V.A. 480/120 Volt Transformer, Type III
G25					7										G25	7	Each	1.00 K.V.A. 480/120 Volt Transformer, Type IV
G25					3										G25	3	Each	1.50 K.V.A. 480/120 Volt Transformer, Type V
G25					4										G25	4	Each	30 Ampere , Fusible, Disconnect Switch with Type Y Enclosure
G25					10										G25	10	Each	30 Ampere , Fusible, Disconnect Switch with Type Z Enclosure
G25					29										G25	29	Each	Sign Wired Complete
G25					14										G25	14	Each	Sign Service