STATE OF OHIO
DEPARTMENT OF HIGHWAYS

SUM - 8 - 14.06

CITIES OF AKRON & CUYAHOGA FALLS
SUMMIT COUNTY

FED. RD.	STATE	PROJECT	
2	OHIO	U-19 (10)	

1/465

SUM. - 8 - 14.06

Sheets 271, 272, 278, 280, 292, 293, 297, 316, 327, 331, 332, & 333 revised 6-23-72 EBL
Added sheets 303A, 303B, 303C, 303D, 303E, 303F, 303G 303H, 303I, 303J, 303K, 303L 1-30-73 JDR
Revised sheets 316, 324, 325 1-30-73 JDR

Sheets 1X to 63X inclusive, 56AX, 57AX, & 61AX of 63 added 4-24-73 C.W.

U - 19 (10)

Sheets 303A, 303B, 303F, 303L Revised, Sheet 303G Deleted, 303M & 303N Added 4-24-73 J.D.R.

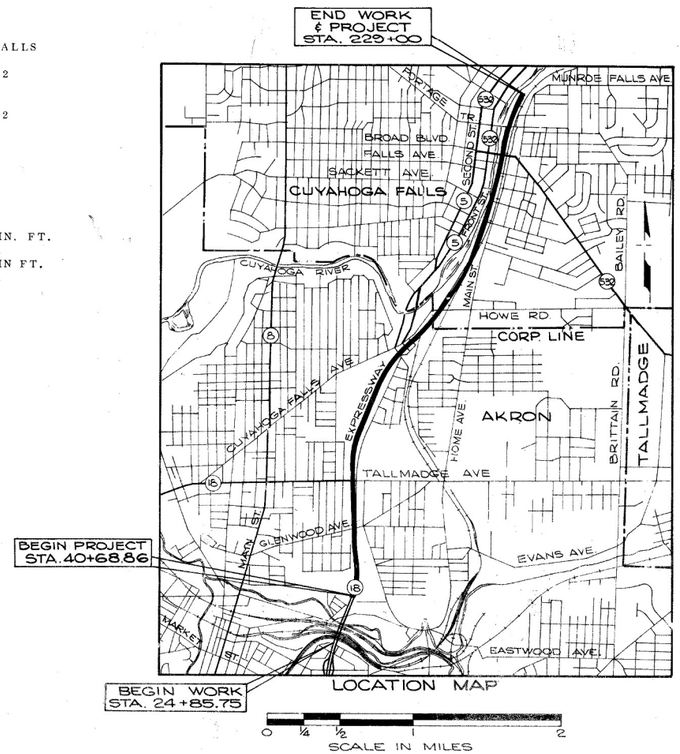
LIMITED ACCESS

This improvement is especially designed for through traffic and has been declared a Limited Access or Freeway by action of the Director of Highways in accordance with the provisions of Section 5511.02 of the Revised Code of Ohio.

CONVENTIONAL SIGNS

State Line
County Line
Township Line
Section Line
Center Line
Corporation Line
Fence Line
Guard Rail (existing)
Guard Rail (proposed)
Steam Railroad
Power Poles
Telephone Poles
Trees or Stumps (existing)

See Sheet 21 For Additional Symbols Used In This Plan



LOCATION MAP

LINE DATA

	AKRON	CUYAHOGA FALLS
BEGIN WORK S.R. 8	24 + 85.75	149 + 13.52
END WORK S.R. 8	149 + 13.52	229 + 80
BEGIN PROJECT S.R. 8	40 + 68.86	149 + 13.52
END PROJECT S.R. 8	149 + 13.52	229 + 00
EQUATION: 40 + 68.50 BK = 40 + 68.86 AHD. DEDUCT FOR EQUATION (FROM WORK ONLY)	0.36 LIN. FT.	
LENGTH OF WORK	12,427.41 LIN FT. 2.353 MI.	8,066.48 LIN. FT. 1.527 MI.
LENGTH OF PROJECT	10,844.66 LIN FT. 2.053 MI.	7986.48 LIN FT. 1.512 MI.

NET LENGTH OF WORK = 20,493.89 LIN. FT., 3.881 MI.

NET LENGTH OF PROJECT = 18,831.14 LIN. FT., 3.566 MI.

INDEX

*PROFILES OF OHIO EDISON SPUR (LINES A & B)

1971 SPECIFICATIONS
U-19(10)

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

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

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

Approved _____
Date _____ Division Deputy Director

Approved _____
Date 10-22-71 Engineer of Bridges

Approved _____
Date 10-26-71 Engineer of Location and Design

Approved _____
Date _____ Deputy Director of Design and Construction

Approved _____
Date _____ Deputy Director of Right of Way

Approved _____
Date 11-11-71 Deputy Director of Planning and Programming

Approved _____
Date _____ First Assistant Director

Approved _____
Date 11-11-71 Director of Highways

Plan _____ = 50'
Profile: Horizontal _____ = 50'
Profile: Vertical _____ = 5'
Cross Sections _____ = 10'

Portion to be improved
State Roads (3)
Other Roads

PREPARED AND RECOMMENDED BY
DALTON-DALTON ASSOCIATES, INC.
AKRON OHIO CLEVELAND

File No. | Summit County Sum-8-14.06
Date of Letting _____ 19___
Contract No. _____

SUPPLEMENTAL PRINTS OF STANDARD CONSTRUCTION DRAWINGS

AS-1-67	6-12-69	CB 2-3 & 2-4	6-1-65	GR-3	11-9-71	I-1	G-1-65	MH-1	10-1-68
BP-1	G-1-65	F-1	3-10-69	GR-4	11-9-71	I-2A	6-6-69	MH-1A	10-1-68
BP-2	12-1-68	F-3	3-10-69	GR-5	1-1-71	L-1	G-1-65	MH-2	10-1-68
BP-3	1-1-71	F-2	1-1-71	GR-6	1-1-71			MH-2A	10-1-68
BP-4	1-1-71	F-5	3-10-69	HW-E	G-1-65	I-2	6-6-69	BP-9	1-1-71
BP-5	1-1-71					MC-1	6-13-68		
BP-7	1-1-66			HL-1	11-1-65	MC-3	6-20-69	BR-1-65 Sh. 1 & 2	11-24-65
CB-2-2-A & B	G-1-65	FAC 1-1	4-20-71	HL-2	11-1-65	MC-4	6-13-69	RB-1-55	2-2-59
CB-3	G-1-65	FAC 1-2	4-20-71	HL-3	11-1-65	MC-5	G-1-65	SD-1-69 Sh. 1, 2, 3 & 4	6-12-69
CB-3A	G-1-65			HL-4	1-1-66	MC-7	10-1-68		
CB-5	9-1-69	GR-2A	1-1-71	CB-458A	6-6-68				
CB-6	G-1-65	GR-2B	11-9-71						

SUPPLEMENTAL SPECIFICATIONS

801	1-1-69	939	12-15-69
808	1-1-71		
1001	1-1-69		
814	1-1-69		
815	1-1-69		
816	1-1-69		
835	11-25-70		
934	1-1-69		
806	1-1-69		
927	1-1-71		
836	1-1-71		
941	11-25-70		
932	1-1-69		

DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED:

DIVISION ENGINEER _____ DATE

Rev. 3-16-72 Rev. 1-18-72

QUANTITY SUMMARY

LIGHTING AND P&F SIGNAL

FED.RD.	STATE	PROJECT	
	OHIO		

354 465

SUM.-8-14.06

* SUBTOTAL AKRON - 25% STATE - 75%

7221 Ahead
6706 Back

■ 50% Akron & 50% Project
▲ 33 1/3% Akron & 66 2/3% Project

QUANTITY CALCULATIONS BY E.D.R.
CHECKED BY J.J.M.

LINE No	ROADWAY 356	357	358	359	360	361	362	363	SUBTOTAL AKRON 100%	*355 SU5 124	362 SUM8 1578	ROADWAY 356	357	358	359	360	361	362	363	SUBTOTAL AKRON STATE FEDERAL	STRUCTURES SUM8 1622	SUM8 1729	SUM8 1744	SUM8 1745	ROADWAY 363 364 365	8A	366 367	368	369 370	371	SUBTOTAL CUY. FALLS STATE FEDERAL	PROJECT GRAND TOTAL	ITEM	UNIT	DESCRIPTION	Project Total 6706	7221
1													13	9	8	11	6			47												47	625	EACH	STEEL LIGHT POLE, DESIGN 11AT 25B 41.7	44	3
2												1		3	1					5												5	625	EACH	STEEL LIGHT POLE, DESIGN 11AT 20B 41.7	5	
3												9			6	2				17												17	625	EACH	STEEL LIGHT POLE, DESIGN 11AT 18B 41.7	17	
4																							1	1							2	2	625	EACH	STEEL LIGHT POLE, DESIGN 7A 12B 32.5		2
5																	3	6	1	10					5	1	10	6	5	4	31	41	625	EACH	STEEL LIGHT POLE, DESIGN 11A 12BB 40		41
6																		2	2	4					1	-1	4	3	1	1	9	13	625	EACH	STEEL LIGHT POLE, DESIGN 11AT 15B 34.2		13
7																	10		2	12					14		5	3	11	4	37	49	625	EACH	STEEL LIGHT POLE, DESIGN 11AT 12B 34.2		49
8																										-1		2	7		8	8	625	EACH	STEEL LIGHT POLE, DESIGN 11A 12B 32.5		8
9													5	8	4					17												17	625	EACH	STEEL LIGHT POLE, DESIGN 11AT 10B 34.2		17
10																													1		1	1	625	EACH	STEEL LIGHT POLE, DESIGN 11AT 8B 34.2		1
11																													3		3	3	625	EACH	8'-0" BRACKET ARM, AS PER PLAN		3
12													2	2			1			5			1		5	-1			1		6	11	625	EACH	12'-0" BRACKET ARM, AS PER PLAN	4	7
13																									1				1		2	2	625	EACH	18'-0" BRACKET ARM, AS PER PLAN		2
14																										1					1	1	625	EACH	6'-0" BRACKET ARM, AS PER PLAN		1
15													5	8	4		10	2	4	33					15	-1	9	6	12	5	46	79	625	EACH	LIGHT POLE FOUNDATION, 24" X 6' DEEP	17	62
16												10	13	12	15	13	6			69												66	625	EACH	LIGHT POLE FOUNDATION, 24" X 8' DEEP	66	3
17																	3	6	1	10					5	1	10	6	5	4	31	41	625	EACH	LIGHT POLE FOUNDATION, 14' BARRIER MEDIAN SECTION		41
18	2	2	2	2	2	4	2		16																							16	625	EACH	CALL BOX FOUNDATION, P&F SIGNAL, AS PER PLAN	13	3
19												10	13	12	15	13	12	12	2	89					10	2	20	12	10	8	62	151	625	EACH	LUMINAIRES, TYPE III 700 WATT, 713.11	66	85
20										21			2	2			2			6					9	-1			5		13	40	625	EACH	LUMINAIRES, TYPE III 400 WATT, 713.11	25	15
21													5	8	4		9	2	4	32			2	1	12	6	9	8	18	5	62	94	625	EACH	LUMINAIRES, TYPE II 400 WATT, 713.11	17	77
22																	6			6	8	10			21	3					21	27	625	EACH	LUMINAIRES, ASYMMETRIC 250 WATT, 713.13		27
23												10	13	12	15	13	12	12	2	89					10	2	20	12	10	8	62	151	625	EACH	LAMPS, 700 WATT, 713.15	66	85
24										21			7	10	4		11	2	4	38			2	1	12	6	9	8	18	5	62	121	625	EACH	LAMPS, 400 WATT, 713.15	42	79
25																		6		6	8	10				3					21	27	625	EACH	LAMPS, 250 WATT, 713.15		27
26																									9	-1			5		13	13	625	EACH	LAMPS, 400 WATT, WHITE, 713.15		13
27																									4	8			5	2	19	19	625	EACH	GLARE SHIELDS, 713.11		19
28																											2				2	2	625	EACH	SPECIAL MEDIAN BARRIER PULLBOX, AS PER PLAN		2
29	2	2	2	2	2	4	2		16			10	18	20	19	13	15	8	5	112					20	3	19	14	25	9	90	218	625	EACH	GROUND RODS, 713.16	96	122
30										2		1	5	8	4	2	5	6	1	30					13	-5	5	2	13	3	31	69	625	EACH	PULL BOXES, 18", 713.09 WITH AIR BELL	26	43
31										6			3	3	3		4			13					4				7		11	30	625	EACH	PULL BOXES, 24", 713.09 WITH AIR BELL	15	15
32	4	9	5	8	6	9	5	2	52																							52	625	EACH	PULL BOXES, 36", 713.09 WITHOUT AIR BELL	37	15
33										2			2	7	6			1	2	22					4	-2	4		4	1	11	35	625	EACH	MARKERS FOR CABLE OR CONDUIT	12	16
34					220		645	27	892	160		1635	1420	1903	914	1303	1442	510	615	9742					3080	692	2433	1110	3080	1180	10,211	21,005	625	L. F.	TRENCH, 24" DEEP, 1-Duct	7,355	13,450
35		50	205						255		155	115	275	200	75	145	370	145	170	1550							289				289	2194	625	L. F.	CONDUIT, 4" 713.04 TYPE III	1220	974
36										160			400	300	186		375	315	95	1671					655	60	125		1015	65	1920	3,751	625	L. F.	CONDUIT, 3" 713.04 TYPE III	1046	2705
37											160									160	227	190	210	155		435		443	1435		3095	3,255	625	L. F.	CONDUIT, 2" 713.04 TYPE III		3255
38													90	90						180					60						60	240	625	L. F.	CONCRETE ENCASEMENT FOR CONDUITS	180	60
39												115	190	40	60	145	80			630												630	625	L. F.	CONDUIT JACKING	550	80
40	935	2355	1508	3210	1740	2335	1345	175	14,003																							14003	625	L. F.	CONDUIT, 4" POLYVINYL CHLORIDE, AS PER PLAN	10,453	3,550
41										7110	760		1080	760	630		3754	6126	516	13,626	870	470	450	300	8326	1206	7006	3832	8284	3520	34,264	55,000	625	L. F.	CABLE, #4 AWG, 600 VOLT, SECONDARY CLASS, 713.02	10340	44,660
42																	726			726		230						228	3288		3,746	4,472	625	L. F.	CABLE, #2 AWG, 600 VOLT, SECONDARY CLASS, 713.02		4472
43										1680		1214	2088	2462	2268	1714	2280	1144	538	13718			90	90	2728	316	2432	1658	3082	1088	11,504	26,902	625	L. F.	CABLE, #10 AWG, 600 VOLT, POLE AND BRACKET, 713.02	11841	15,061
44												2670	4245	3553	4504	2948	3757	660	538	22,875					2505	-332	2131	1175	2337	1180	8996	31,871	625	L. F.	UNIT TYPE DUCT-CABLE WITH 2 #4 AWG CABLES, 713.03	12515	13,356
45																	495			495												495	625	L. F.	UNIT TYPE DUCT-CABLE WITH 2 #2 AWG CABLES, 713,03		495
46										4	2	2	18	6	6		14	20	2	70	4				52	-8	8	2	58	4	120	194	625	EACH	CONNECTOR KIT TYPE I	38	156
47										21		10	20	22	19	13	17	2	4	107			2	1	21	1	9	8	25	5	72	200	625	EACH	CONNECTOR KIT TYPE II	108	92
48										21		10	20	22	19	13	17	2	4	107			2	1	21	1	9	8	25	5	72	200	625	EACH	CONNECTOR KIT TYPE III	108	92
49											4		8	10	4	2	6	6		40	4				16	4	2	2	20	2	50	90	625	EACH	CONNECTOR KIT TYPE VII B	28	62
50																									8		4				12	12	625	EACH	CONNECTOR KIT TYPE VII C		12
51																	6	12	2	20					10	2	20	12	10	8	62	82	625	EACH	CONNECTOR KIT TYPE IX CU		82
52													LUMP							LUMP												LUMP	625	LUMP	SERVICE POLE "GW" (GLENWOOD) and Control Center	LUMP	
53										LUMP																						LUMP	625	LUMP	CONTROL CENTER "AE" (ADAM EAST) (PAD MOUNTED)	LUMP	
54										LUMP																						LUMP	625	LUMP	PRIMARY SERVICE TO CONTROL CENTER "AE"	LUMP	
55										LUMP																						LUMP	625	LUMP	CONTROL CENTER "AW" (ADAM WEST) (PAD MOUNTED)	LUMP	
56										LUMP																						LUMP	625	LUMP	PRIMARY SERVICE TO CONTROL CENTER "AW"	LUMP	
57													LUMP							LUMP												LUMP	625	LUMP	SERVICE POLE "PW" (PARKVIEW) and Control Center	LUMP	
58																										1					1	1	625	EACH	10'-0" BRACKET ARM, AS PER PLAN		1
59																										3					3	3	625	EACH	STEEL LIGHT POLE DESIGN 11A 6B 10B 32.5		3
60												935	1900	1525	2170	1500	1440	680	150												■ 10,300	625	Lin. Ft.	Common Trench 24" Deep, 4"-12" Wide, 2-Ducts, as per plan	8330	1970
61													430	100	600		580														▲ 1,710	625	Lin. Ft.	Common Trench 24" Deep, 13"-18" Wide, 3 or more Ducts as per plan	1130	580
62														LUMP						LUMP												LUMP	625	LUMP	CONTROL CENTER "TE" (TALLMADGE) (PAD MOUNTED)	LUMP	
63														LUMP						LUMP												LUMP	625	LUMP	PRIMARY SERVICE TO CONTROL CENTER "TE"	LUMP	
64															LUMP					LUMP												LUMP	625	LUMP	CONTROL CENTER "GB" (GORGE I) (PAD MOUNTED)	LUMP	
65															LUMP					LUMP												LUMP	625	LUMP	PRIMARY SERVICE TO CONTROL CENTER "GB"	LUMP	
66																LUMP				LUMP												LUMP	625	LUMP	CONTROL CENTER "GO" (GORGE II) (PAD MOUNTED)		LUMP
67																LUMP				LUMP												LUMP	625	LUMP	PRIMARY SERVICE TO CONTROL CENTER "GO"		LUMP
68																									LUMP					LUMP	LUMP	625	LUMP	CONTROL CENTER "HO" (NO. 2 AT HOWE)		LUMP
69																													LUMP		LUMP	LUMP	625	LUMP	CONTROL CENTER "BR" (BROAD I) (PAD MOUNTED)		LUMP
70																										Lump					Lump	Lump	625	Lump	SERVICE TO UNDERPASS LIGHTING STR No. SUM-8-1743, AS PER PLAN		LUMP
71																										6					6	6	625	EACH	LIGHT POLE ANCHOR BOLTS (1" x 78" U)		6
72																																				
73																				Lump											Lump	LUMP	625	LUMP	TEMPORARY LIGHTING, AS PER PLAN	Lump	Lump
74											LUMP									LUMP												LUMP	625	LUMP	SERVICE TO UNDERPASS LIGHT, STRU. NO. 1578, AS PER PLAN	LUMP	
75																					LUMP										LUMP	LUMP	625	LUMP	SERVICE TO UNDERPASS LIGHTING, STRU. No. 1622, AS PER PLAN		LUMP
76																						LUMP									LUMP	LUMP	625	LUMP	SERVICE TO UNDERPASS LIGHTING, STRU. No. 1729, AS PER PLAN		LUMP
77										1										1												1	625	EACH	STRUCTURE GROUND SYSTEM, STRUCTURE # SUM 8-1578	1	
78																					1				1						1	1	625	EACH	STRUCTURE GROUND SYSTEM, STRUCTURE # SUM 8-1622		1
79																						1			1						1	1	625	EACH	STRUCTURE GROUND SYSTEM, STRUCTURE # SUM 8-1729		1
80																							1		1						1	1	625	EACH	STRUCTURE GROUND SYSTEM, STRUCTURE # SUM 8-1743		1
81																								1	1						1	1	625	EACH	STRUCTURE GROUND SYSTEM, STRUCTURE # SUM 8-1745		1
82												2								2	2	3	1	1		8		2			17	19	625	EACH	STRUCTURE JUNCTION BOX, 16" X 12" X 6", 713.10 WITH COVER	2	17
83													2		5			4		11												11	625	EACH	GROUNDING OF HIGHWAY R/W FENCE, AS PER PLAN	7	4
84																							2	2		4		4	14		26	26	625	EACH	LIGHT POLE ANCHOR BOLTS (1 1/4" x 78" "U")		26
85										LUMP	LUMP	LUMP	LUMP	LUMP	LUMP	LUMP	LUMP	LUMP	LUMP	LUMP	LUMP	LUMP	LUMP	LUMP	LUMP	LUMP	LUMP	LUMP	LUMP	LUMP	LUMP	LUMP	LUMP	839	LUMP	HIGH VOLTAGE TEST	LUMP	LUMP

Rev. 3-16-72 Rev. 1-14-72

REVISED 4-26-71 JJM

FED. RD.	STATE	PROJECT	
2	OHIO		

355
465

SUM-8-14.06

STA. 24+06 -114' LT.
EXIST. SERVICE POLE
CKT. E-43

CONTROL CENTER "AW" *
55' LT. STA. 24+25

* SEE CONTROL CENTER DETAIL
SHT. NO. 383

ADAMS ST.

STA. 23+46
EXIST. LIGHT POLE

STA. 24+16.5
EXIST. LIGHT POLE

STA. 24+07 -107' RT.
EXIST. SERVICE POLE
CKT. E-44

(EXIST) AERIAL

CONTROL CENTER "AG" *
82' RT. STA. 24+19

MATCH LINE STA 24+75

STA. 25+01 M.L.
R/P EXIST. LUMINAIRE
43 AW (1)

STA. 25+98
R/P EXIST. LUMINAIRE
43 AW (2)

STA. 27+66
R/P EXIST. LUMINAIRE
43 AW (3)

STA. 29+43
R/P EXIST. LUMINAIRE
43 AW (4)

STA. 31+23
R/P EXIST. LUMINAIRE
43 AW (5)

STA. 32+85
R/P EXIST. LUMINAIRE
43 AW (6)

STA. 34+61
R/P EXIST. LUMINAIRE
43 AW (7)

EXISTING 3"-713.05 CONDUIT

STA. 36+19
R/P EXIST. LUMINAIRE
43 AW (8)

STA. 38+00
R/P EXIST. LUMINAIRE
43 AW (9)

STA. 39+74
R/P EXIST. LUMINAIRE
43 AW (10)

CANAL

RIVER

CUYAHOGA

LITTLE

P & O

STRUCTURE "SU-5-124

MATCH LINE STA. 40+00

MATCH LINE STA 24+75

Begin Work Sta 24+85.15

STA. 23+01
R/P EXIST.
44 AE (1) LUMINAIRE

STA. 26+80
R/P EXIST.
44 AE (2) LUMINAIRE

STA. 28+50
R/P EXIST.
44 AE (3) LUMINAIRE

STA. 30+37
R/P EXIST.
44 AE (4) LUMINAIRE

EXISTING 3" 713.05 CONDUIT

STA. 32+10
R/P EXIST.
44 AE (5) LUMINAIRE

STA. 33+74
R/P EXIST.
44 AE (6) LUMINAIRE

STA. 35+47
R/P EXIST.
44 AE (7) LUMINAIRE

STA. 37+13
R/P EXIST.
44 AE (8) LUMINAIRE

STA. 38+86
R/P EXIST.
44 AE (9) LUMINAIRE

ON EXIST. POLES	(1)	REPLACE EXIST. LUMINAIRE WITH 400 WATT MERCURY VAPOR - TYPE III DISTRIBUTION
40' M.H. MIN.		LIGHT POLE AND LUMINAIRE W/DUAL BRACKET ARMS. 700 WATT MERCURY VAPOR - TYPE III DISTRIBUTION.
40' M.H. MIN.		LIGHT POLE AND LUMINAIRE W/SINGLE BRACKET ARM. 700 WATT MERCURY VAPOR - TYPE III DISTRIBUTION.
32.5' M.H. MIN.		LIGHT POLE AND LUMINAIRE W/SINGLE BRACKET ARM. 400 WATT MERCURY VAPOR - TYPE II DISTRIBUTION.
32.5' M.H. MIN.		LIGHT POLE AND LUMINAIRE W/SINGLE BRACKET ARM. 400 WATT MERCURY VAPOR - TYPE III DISTRIBUTION.
15' M.H. MAX.		UNDERPASS LUMINAIRE. 250 WATT - ASYMETRIC DISTRIBUTION.
		NOTCH BACK SLOPE FOR PLAN FOUNDATION OFFSET AND EXCAVATE FOR MINIMUM MOUNTING HEIGHT.
		INDICATES GLARE SHIELD

LEGENDS

8' ARM
G.5'$_{\wedge}$8BR(4) OFFSET AND LIGHT POLE IDENTIFICATION:
THE FIRST NUMBER (G.5') INDICATES THE OFFSET FROM EDGE OF PAVEMENT. THE NUMBER (8) INDICATES THE CIRCUIT NUMBER. THE LETTERS (BR) IDENTIFIES THE CONTROL CENTER. THE NUMBER (4) INDICATES THE POLE NUMBER WITHIN THE CIRCUIT.
$_{\wedge}$ (8') BRACKET ARM LENGTH

DUCT CABLE.

CONDUIT

4" PVC CONDUIT FOR P & F SIGNAL

4" 713.04 CONDUIT FOR P & F SIGNAL

18" CIRCULAR 713.09 PULL BOX

CONDUIT OR CABLE MARKER.

16" X 12" X 6" STRUCTURE JUNCTION BOX.

GUARDRAIL.

LIGHTING CONTROL CENTER

CANTILEVER SIGN

OVERHEAD SIGN

24" CIRCULAR 713.09 PULL BOX

P & F. SIGNAL PULL BOX

P & F. SIGNAL FOUNDATION

EXISTING DRAINAGE — PROPOSED STRUCTURES

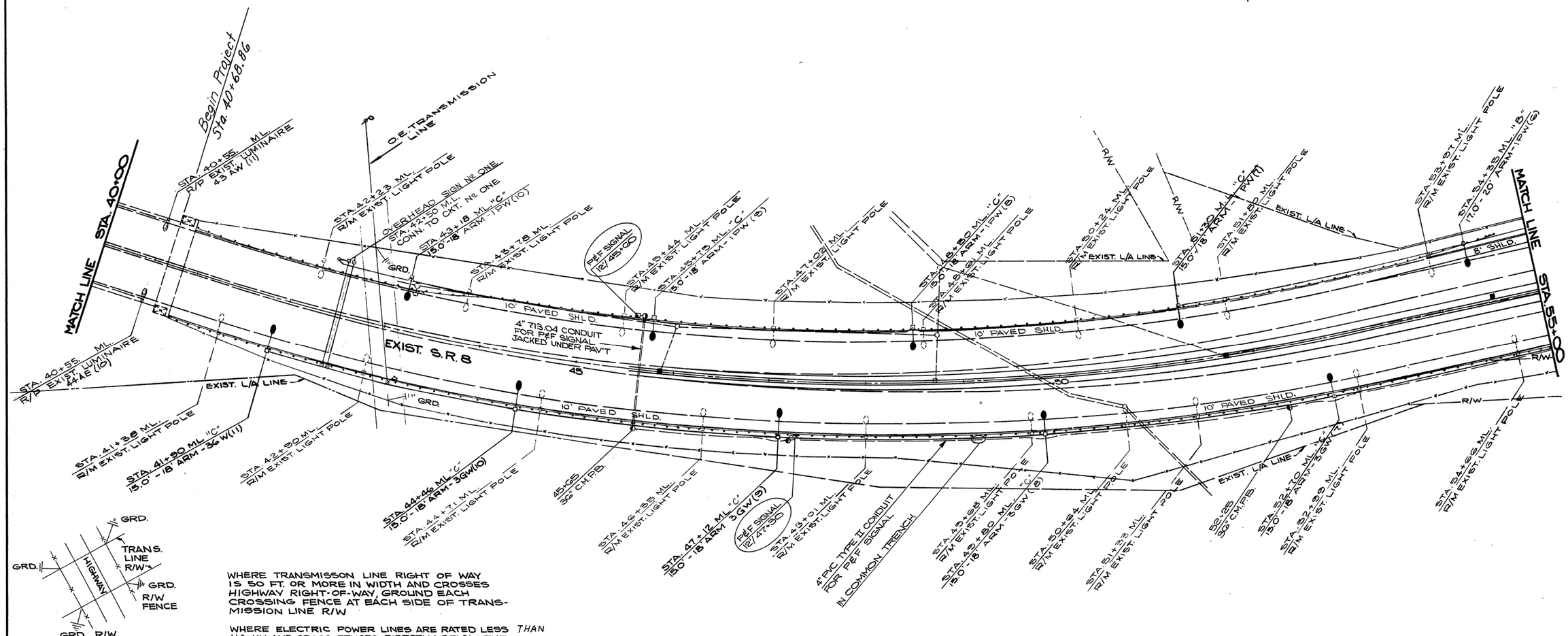
GRAPHIC SCALE
0 50 100 150 200

STA. 24+00 to STA. 40+00
LIGHTING PLAN Rev. 1-18-72

FED. RD.	STATE	PROJECT	
2	OHIO		

SUM-8-14.06

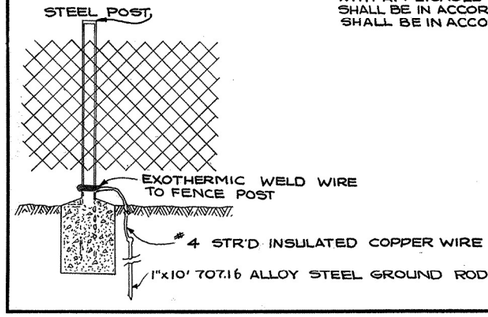
356
465



WHERE TRANSMISSON LINE RIGHT OF WAY IS 50 FT. OR MORE IN WIDTH AND CROSSES HIGHWAY RIGHT-OF-WAY, GROUND EACH CROSSING FENCE AT EACH SIDE OF TRANSMISSION LINE R/W

WHERE ELECTRIC POWER LINES ARE RATED LESS THAN 110 KV AND CROSS FENCES, DIRECTLY BELOW THE POINT WHERE ELECTRIC LINES CROSS.

INSTALLATION SHALL BE MADE IN ACCORDANCE WITH APPLICABLE PROVISIONS OF 625.10, TESTING SHALL BE IN ACCORDANCE WITH 625.22. PAYMENT SHALL BE IN ACCORDANCE WITH 625.24(h) AND 625.25



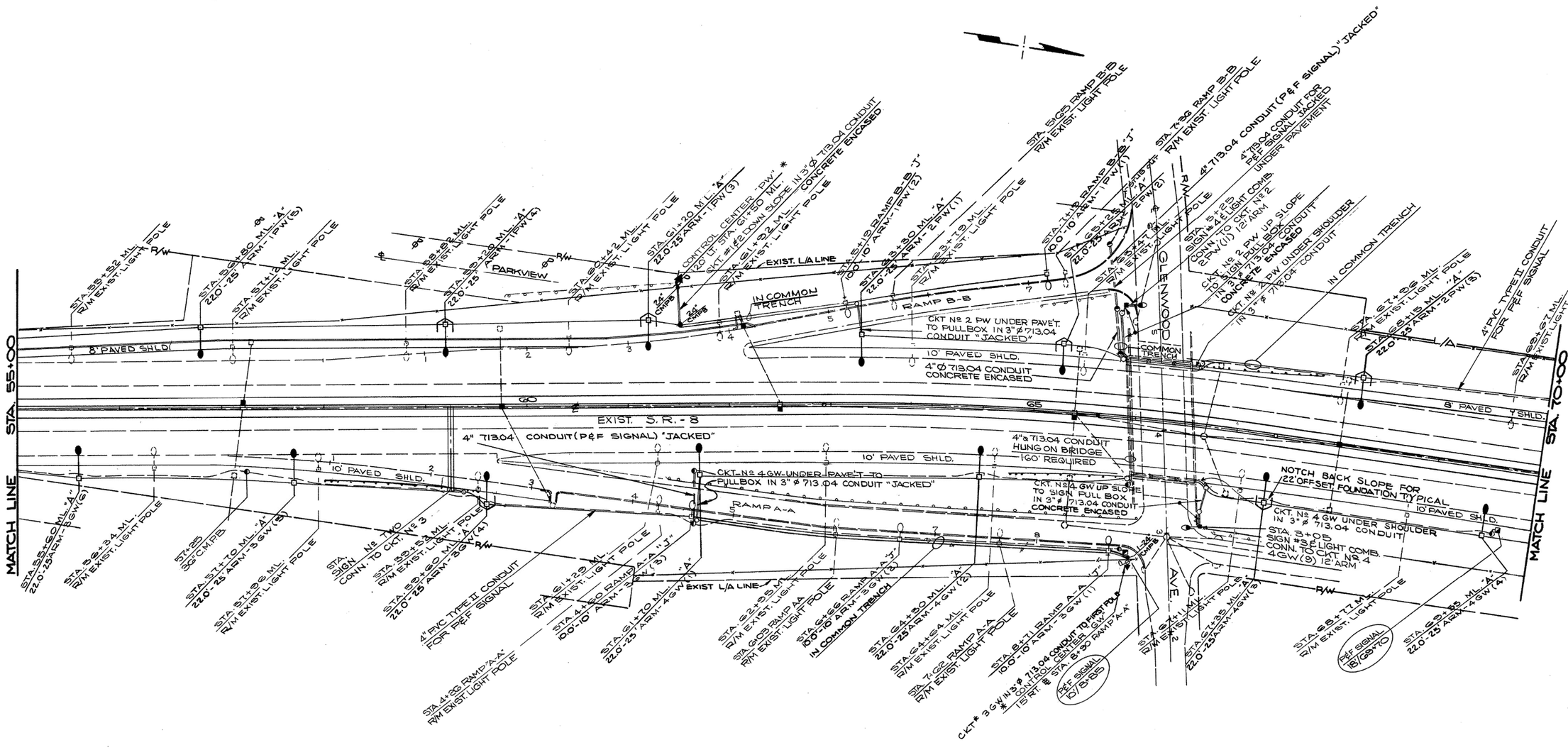
GRAPHIC SCALE
0 50 100 150 200

STA. 40+00 to STA. 55+00
LIGHTING PLAN Rev. 1-18-72

FED. RD.	STATE	PROJECT	
2	OHIO		

357
465

SUM-8-14.06



* SEE CONTROL CENTER DETAIL SHEET Nº. 382

GRAPHIC SCALE
0 50 100 150 200

STA. 55+00 to STA. 70+00
LIGHTING PLAN

FED. RD.	STATE	PROJECT	
2	OHIO		

372
465

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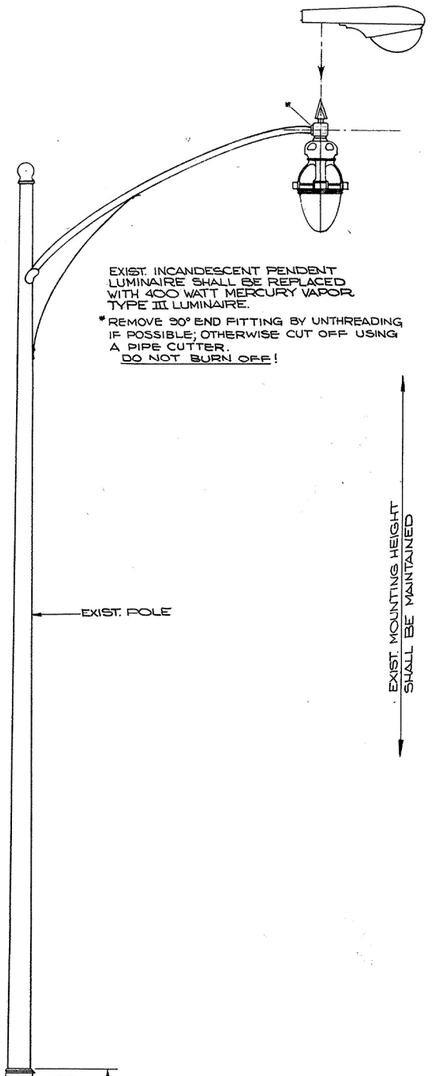
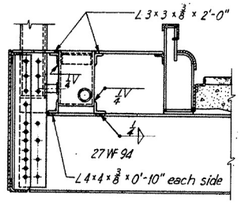
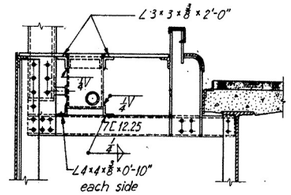


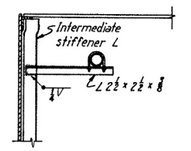
LIGHTING STANDARD
Scale: ½" = 1'-0"
21 INSTALLED



GIRDER SPANS

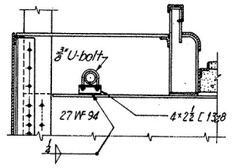


TRUSS SPANS

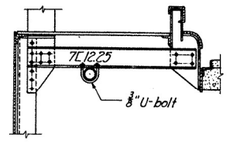


CONDUIT SUPPORTS BETWEEN HANDRAIL POSTS

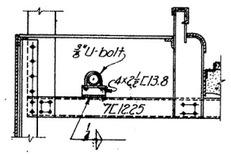
JUNCTION BOX SUPPORTS
Scale: ½" = 1'-0"



GIRDER SPANS AT FLOORBEAMS

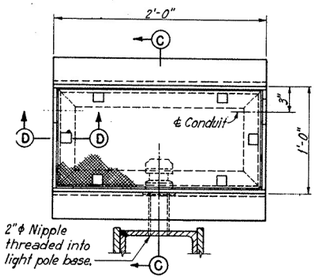


GIRDER SPANS BETWEEN FLOORBEAMS

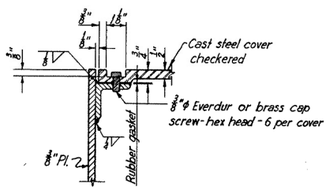


TRUSS SPANS

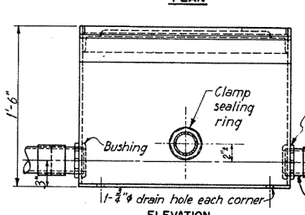
INTERMEDIATE CONDUIT SUPPORTS
Scale: ½" = 1'-0"



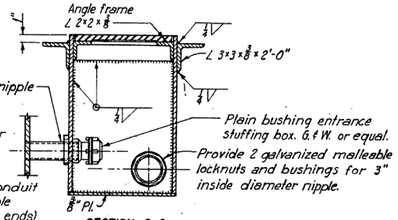
PLAN



SECTION D-D
Scale: 3" = 1'-0"

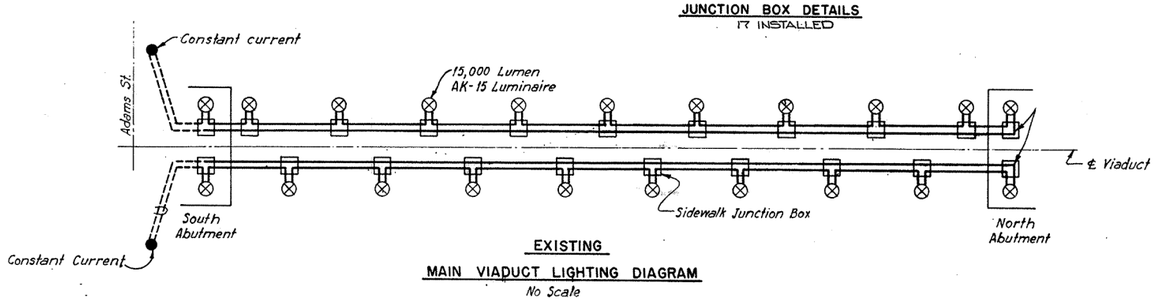


ELEVATION
Scale: 1½" = 1'-0"



SECTION C-C
Scale: 1½" = 1'-0"

JUNCTION BOX DETAILS
17 INSTALLED



EXISTING
MAIN VIADUCT LIGHTING DIAGRAM
No Scale

NOTES:

THE ALIGNMENT OF THE CONDUIT CHANGES GRADUALLY FROM THE EAST JUNCTION BOX AT EACH END OF THE SUPERSTRUCTURE TO MATCH THE CONDUIT IN THE ABUTMENTS.

ALL JUNCTION BOXES ARE GALVANIZED.

THERE IS ONE JUNCTION BOX AT EACH LIGHT POLE.

CONDUIT IS SUPPORTED AT EACH SIDEWALK SUPPORT AND MIDWAY BETWEEN.

CONDUIT SUPPORTS ARE GALVANIZED.

CONDUIT EXPANSION COUPLINGS ARE LOCATED AT A MAXIMUM OF 40 FEET APART AND AT EACH ROADWAY JOINT.

THE LIGHTING STANDARDS WERE MADE AIR TIGHT BETWEEN JUNCTION BOXES AND LUMINARIE. FINAL CAP, BRACKET ATTACHMENTS, BASES, ETC. WERE GASKETED OR OTHERWISE SEALED.

CONDUITS ARE 3" O ASBESTOS-CEMENT PIPE.

ALL NOTES WERE ACCORDING TO PLAN,

PAVEMENT FOR REMOVAL OF OLD LUMINAIRES & WIRING SHALL BE INCLUDED IN THE COST OF THE NEW LUMINAIRES & NEW WIRING AS PER PLAN.

EXISTING LIGHTING
SU 5 124

161

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2	OHIO		

388A 425

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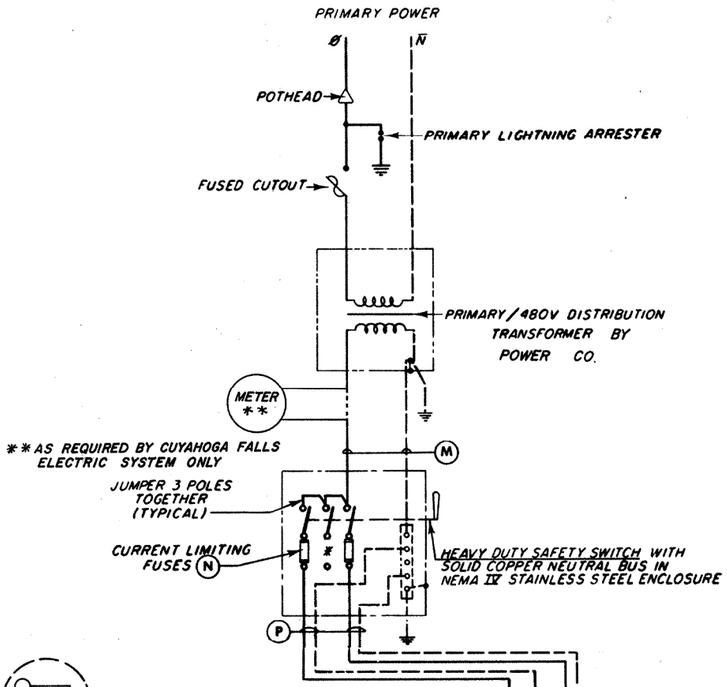
CONTROL CENTER SCHEDULE

Ⓜ WIRE	HEAVY DUTY SAFETY SWITCH	Ⓝ FUSE	Ⓟ WIRE	METER	Ⓡ FUSED DISCONNECT	CONTACTOR OR TRANSFORMER	CIRCUIT R.L.	CIRCUIT NO.	Ⓢ FUSE	Ⓠ	Ⓤ WIRE
2"2 AWG 600V (713.02)	"AW" 3 POLE 60 AMP (713.19)	60A	2"2 AWG 600V (713.02)	N/R	3 POLE 30 AMP (713.20) "1"	30 AMP CONTACTOR	A	N/R			3"10 AWG TO PHOTO-CELL ON TRANS. ENCLOSURE
							B	43	25A		
							C	N/R			
2"2 AWG 600V (713.02)	"AE" 3 POLE 60 AMP (713.19)	60A	2"2 AWG 600V (713.02)	N/R	3 POLE 30 AMP (713.20) "1"	30 AMP CONTACTOR	A	N/R			3"10 AWG TO PHOTO-CELL ON TRANS. ENCLOSURE
							B	44	25A		
							C	N/R			
2"2 AWG 600V (713.02)	"PW" 3 POLE 60 AMP (713.19)			N/R	3 POLE 30 AMP (713.20) "1"	30 AMP CONTACTOR	A	1	30A		3"10 AWG TO PHOTO-CELL ON SERVICE POLE
							B	N/R			
							C	2	30A		
2"2 AWG 600V (713.02)	"GW" 3 POLE 60 AMP (713.19)			N/R	3 POLE 30 AMP (713.20) "1"	30 AMP CONTACTOR	A	3	30A		3"10 AWG TO PHOTO-CELL ON SERVICE POLE
							B	N/R			
							C	4	30A		
2"2 AWG 600V. (713.02)	"TE" 3 POLE 60 AMP (713.19)	60A	2"2 AWG 600V. (713.02)	N/R	3 POLE 30 AMP (713.20) "1"	30 AMP CONTACTOR	A	5	30A		3"10 AWG TO PHOTO-CELL ON POLE #5TE(1)
							B	N/R			
							C	6	30A		
2"2 AWG 600V (713.02)	"GB" 3 POLE 60 AMP (713.19)	60A	2"2 AWG 600V (713.02)	N/R	3 POLE 30 AMP (713.20) "1"	30 AMP CONTACTOR	A	7	30A		3"10 AWG TO PHOTO-CELL ON POLE #8 GW*(1)
							B	N/R			
							C	8	30A		
2"2 AWG 600V (713.02)	"GO" 3 POLE 60 AMP (713.19)	60A	2"2 AWG 600V (713.02)	N/R	3 POLE 30 AMP (713.20) "1"	30 AMP CONTACTOR	A	9	30A		3"10 AWG TO PHOTO-CELL ON POLE #9 GO (1)
							B	N/R			
							C	10	30A		
		60A	2"2 AWG 600V (713.02)	N/R	3 POLE 30 AMP (713.20) "2"	60 AMP CONTACTOR	D	11	50A		
							E	N/R			
							F	12	50A		



TRAFFIC SIGNAL SERVICE CENTER

SEE TRAFFIC CONTROL FOR LOCATION AND PAYMENT

REQUIRED ONLY AT CONTROL CENTER "HO" & "BR"

TYPICAL LIGHTING CONTROL CENTER "2"

TYPICAL LIGHTING CONTROL CENTER "1"

CONTROL CENTER SCHEDULE

Ⓜ WIRE	HEAVY DUTY SAFETY SWITCH	Ⓝ FUSE	Ⓟ WIRE	METER	Ⓡ FUSED DISCONNECT	CONTACTOR OR TRANSFORMER	CIRCUIT R.L.	CIRCUIT NO.	Ⓢ FUSE	Ⓠ	Ⓤ WIRE
	"HO" EXISTING (SUM.8-16-24)	EXIST.	EXIST.	EXIST.	EXIST. "1"	EXIST.	A	13	EXIST.		EXIST.
							B				
							C	14	40A		
		60A	2"2 AWG 600V (713.02)	EXIST.	3 POLE 60 AMP (713.20) "2"	60 AMP CONTACTOR	D	16	30A		
							E	17	50A		
							F	18	45A		
		35A	2"2 AWG 600V (713.02)	EXIST.	3 POLE 30 AMP (713.19)	5 KVA. TRANS-FORMER					
							G	T	30A	10A	
2"2 AWG 600V (713.02)	"BR" 3 POLE 100 AMP (713.19)	60A	2"2 AWG 600V (713.02)	ON WIRE "M"	3 POLE 60 AMP (713.20) "1"	60 AMP CONTACTOR	A	20	60A		3"10 AWG TO PHOTO CELL ON POLE #21 BR (1)
							B	21	30A		
							C	22	30A		
		60A	2"2 AWG 600V (713.02)		3 POLE 60 AMP (713.20)	60 AMP CONTACTOR	D	23	30A		
							E	24	60A		
							F	25	25A		
		35A	2"2 AWG 600V (713.02)		3 POLE 30 AMP (713.19)	5 KVA TRANS-FORMER					
							G	T	30A	10A	

CONTROL CENTER WIRING DIAGRAM

REVISED 4-26-71 JJM

FED. RD.	STATE	PROJECT	
2	OHIO		

383B 4.05

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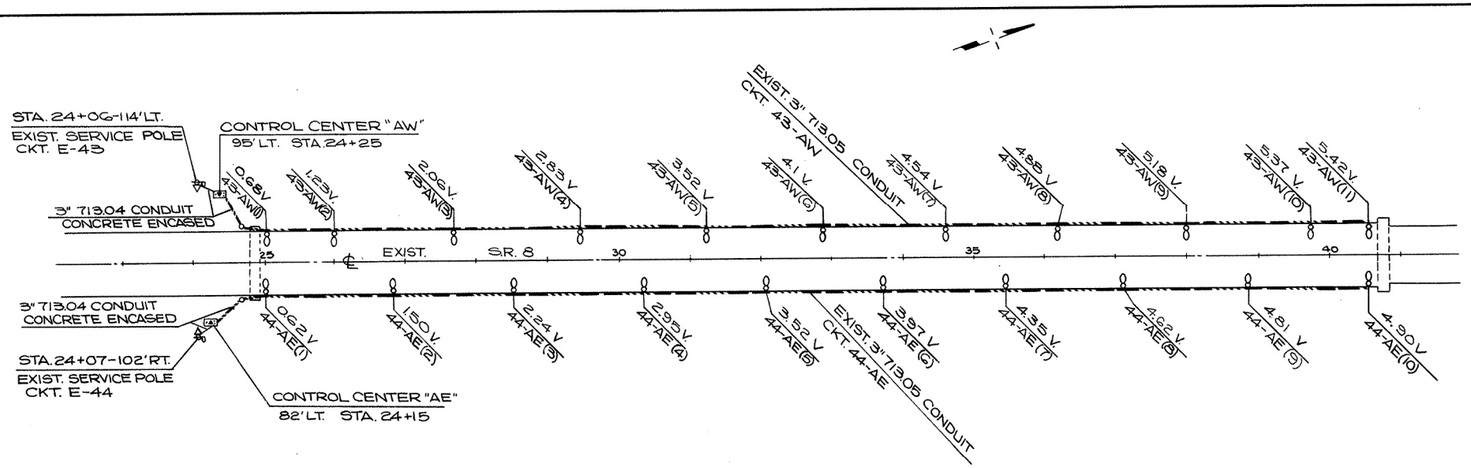
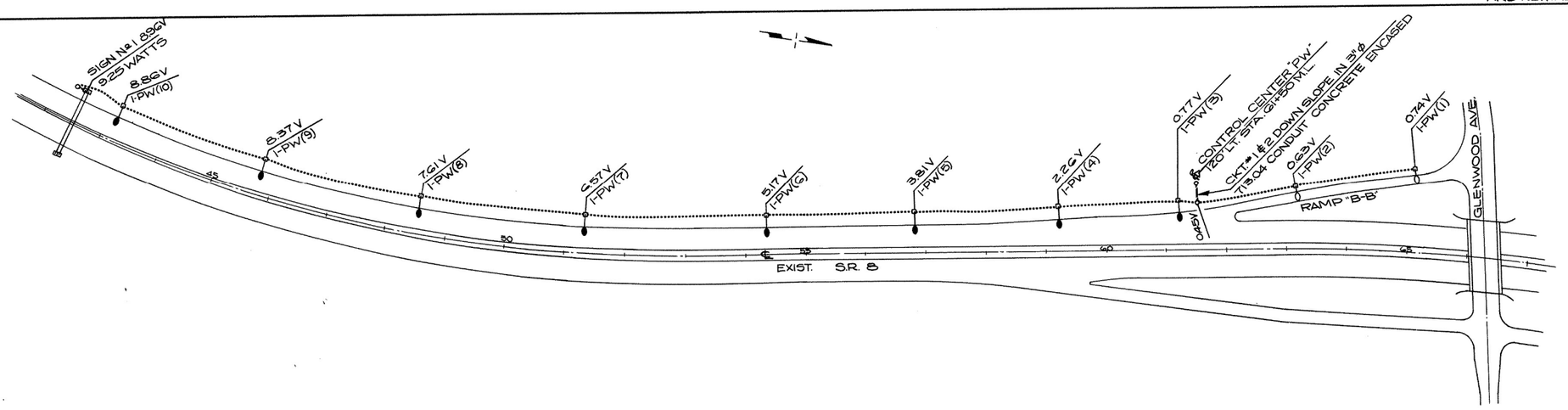


CIRCUIT Nº 43-AW
PLAN SHEET Nº 355 & 356
CONNECTED LOAD 5.28 KVA
VOLTAGE DROP 5.02 V

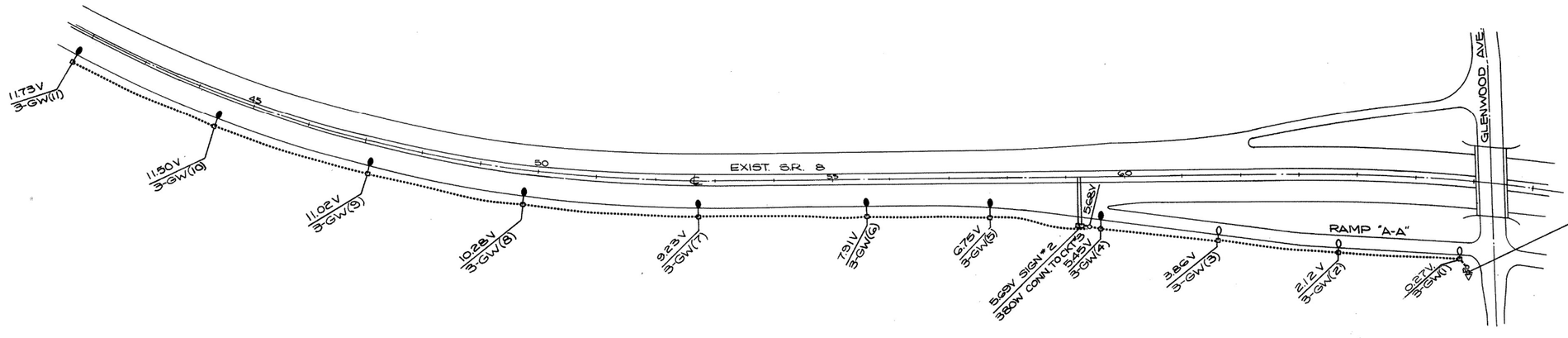
CIRCUIT Nº 44-AE
PLAN SHEET Nº 355 & 356
CONNECTED LOAD 4.8 KVA
VOLTAGE DROP 4.57 V

USE #4 AWG 713.02 ELECTRIC CABLE IN EXISTING 3" 713.05 CONDUIT AND REWIRE POLE & BRACKET WITH #10 AWG



CIRCUIT Nº 1 PW
PLAN SHEET Nº 356 & 357
CONNECTED LOAD 8.4 KVA
VOLTAGE DROP 8.9 GV

USE #4 AWG 713.02 ELECTRIC CABLE THROUGHOUT AND #10 AWG POLE & BRACKET CABLE



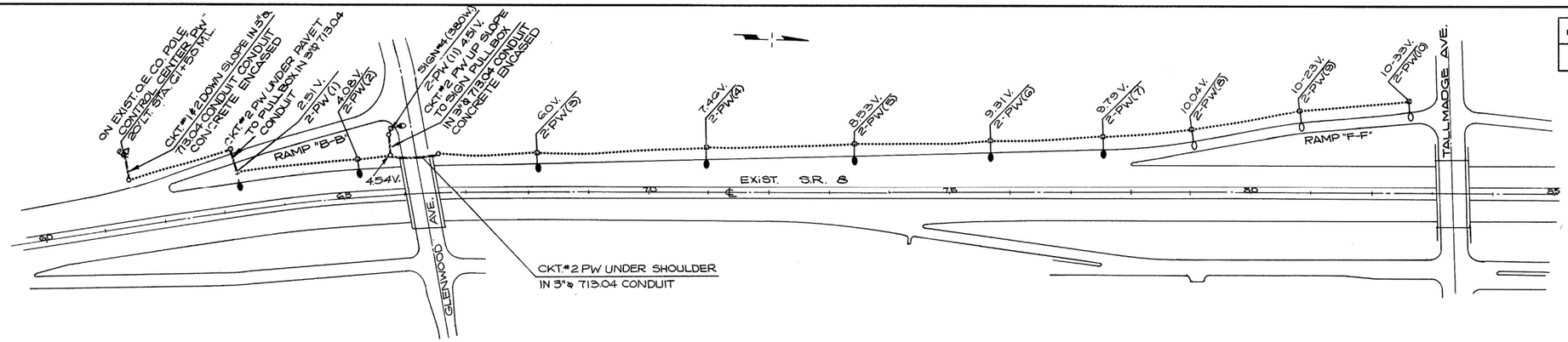
CKT #3-GW IN 3" ø 713.04 CONDUIT TO FIRST POLE CONTROL CENTER "GW" 15' RT. ℄ STA. 8+90 RAMP "A-A"

USE #4 AWG 713.02 ELECTRIC CABLE THROUGHOUT AND #10 AWG POLE & BRACKET CABLE

CIRCUIT Nº 3 GW
PLAN SHEET Nº 356 & 357
CONNECTED LOAD 8.5 KVA
VOLTAGE DROP 11.73 V

CIRCUIT DIAGRAMS

REVISED 4-26-71 BY E.D.R.



FED. RD.	STATE	PROJECT	
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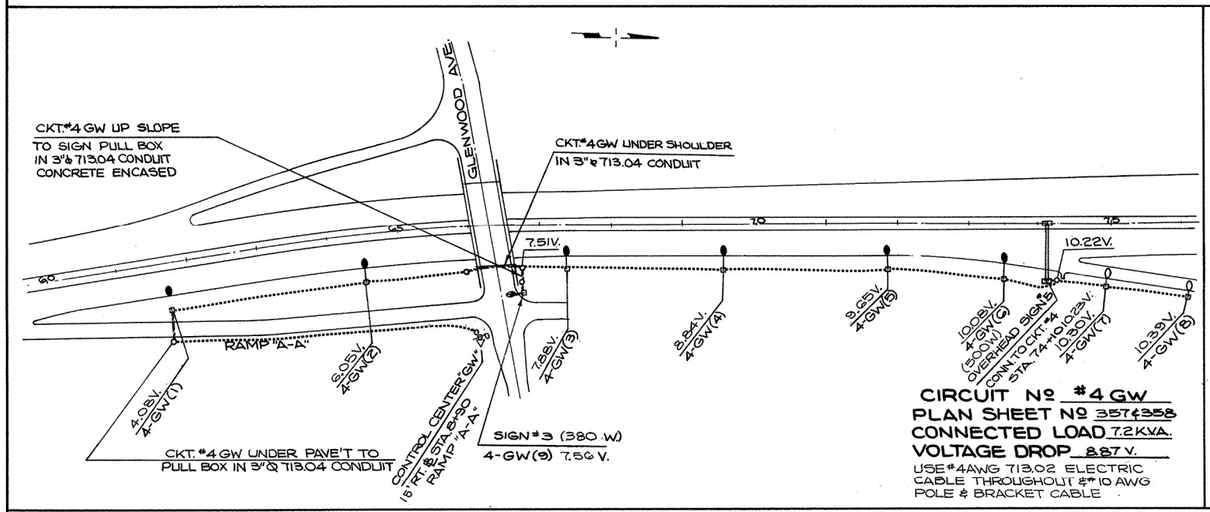
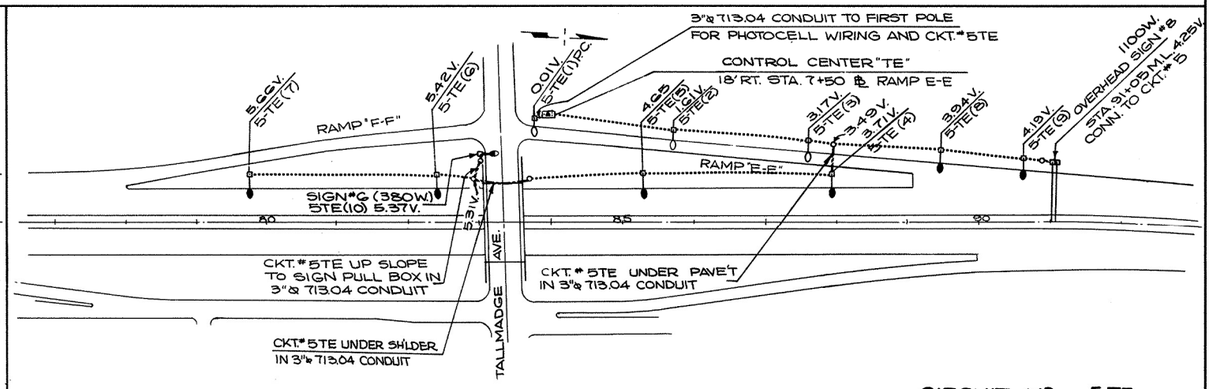
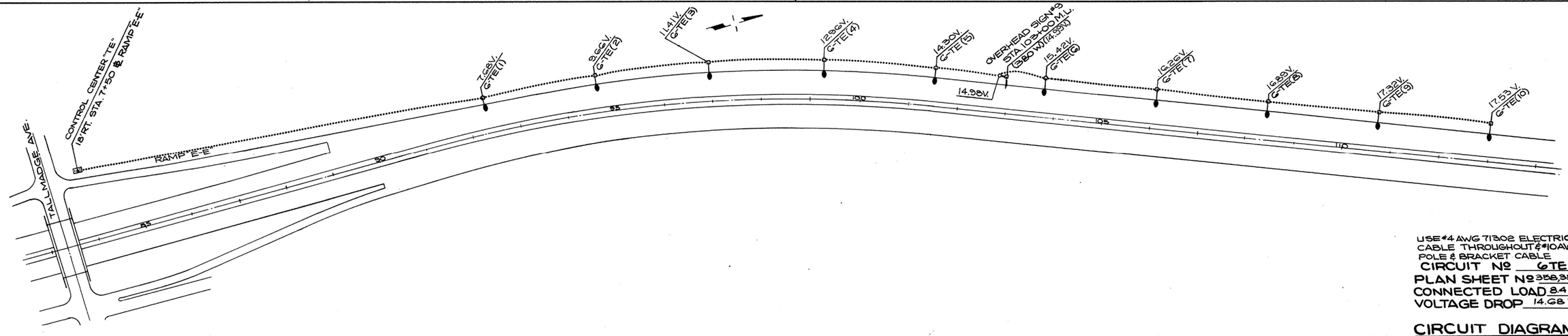
CIRCUIT Nº 2PW
PLAN SHEET Nº 357 & 358
CONNECTED LOAD 7.9 K.V.A.
VOLTAGE DROP 10.33 V.
USE #4 AWG 713.02 ELECTRIC CABLE THROUGHOUT & #10 AWG POLE & BRACKET CABLE



CIRCUIT Nº #4 GW
PLAN SHEET Nº 357 & 358
CONNECTED LOAD 7.2 K.V.A.
VOLTAGE DROP 8.87 V.
USE #4 AWG 713.02 ELECTRIC CABLE THROUGHOUT & #10 AWG POLE & BRACKET CABLE



CIRCUIT Nº 5TE
PLAN SHEET Nº 358 & 359
CONNECTED LOAD 8.1 K.V.A.
VOLTAGE DROP 5.66 V.
USE #4 AWG 713.02 ELECTRIC CABLE THROUGHOUT & #10 AWG POLE & BRACKET CABLE



USE #4 AWG 71302 ELECTRIC CABLE THROUGHOUT & #10 AWG POLE & BRACKET CABLE.
CIRCUIT Nº 6TE
PLAN SHEET Nº 358, 359 & 360
CONNECTED LOAD 8.4 K.V.A.
VOLTAGE DROP 14.68 V.

CIRCUIT DIAGRAMS

REVISED 4-26-71 BY E.D.R.