

OHIO DEPARTMENT OF TRANSPORTATION CUY-LG-FY2021

DISTRICT LIGHTING MAINTENANCE AND REPAIR

2019 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.

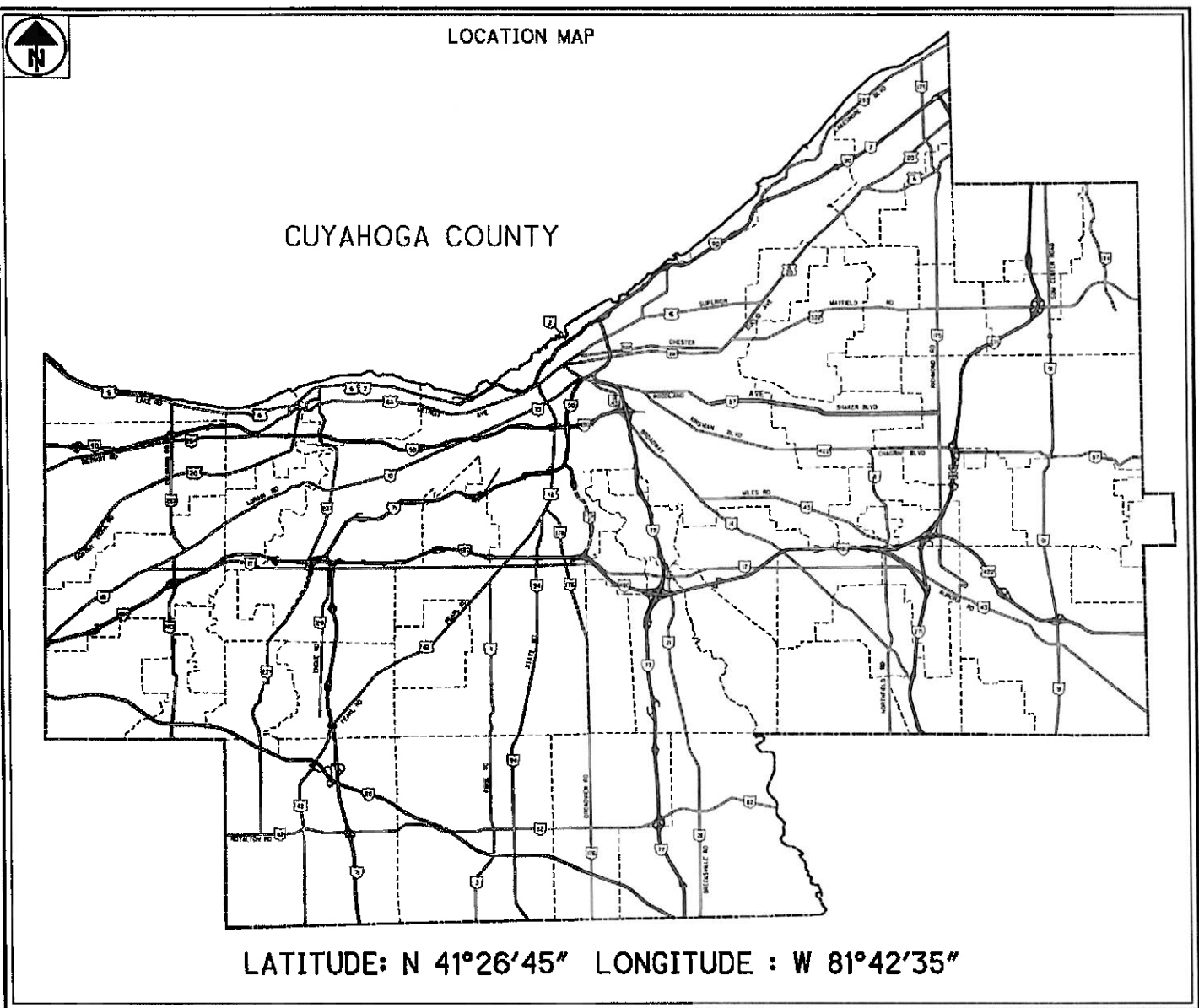
I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL NOT REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES.

Approved *JLR*
District Deputy Director
Date 1/26/21

Approved _____
Director, Department of
Date _____ Transportation

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NPDES PERMIT REQUIREMENTS:

PROJECT EARTH DISTURBED AREA = N/A (MAINTENANCE PROJECT)
ESTIMATED CONTRACTOR EARTH DISTURBED AREA = N/A (MAINTENANCE PROJECT)
NOTICE OF INTENT DISTURBED AREA = N/A (MAINTENANCE PROJECT)

UNDERGROUND UTILITIES

PLAN PREPARED BY:
**OHIO DEPARTMENT OF TRANSPORTATION
DISTRICT 12
PLANNING & ENGINEERING**

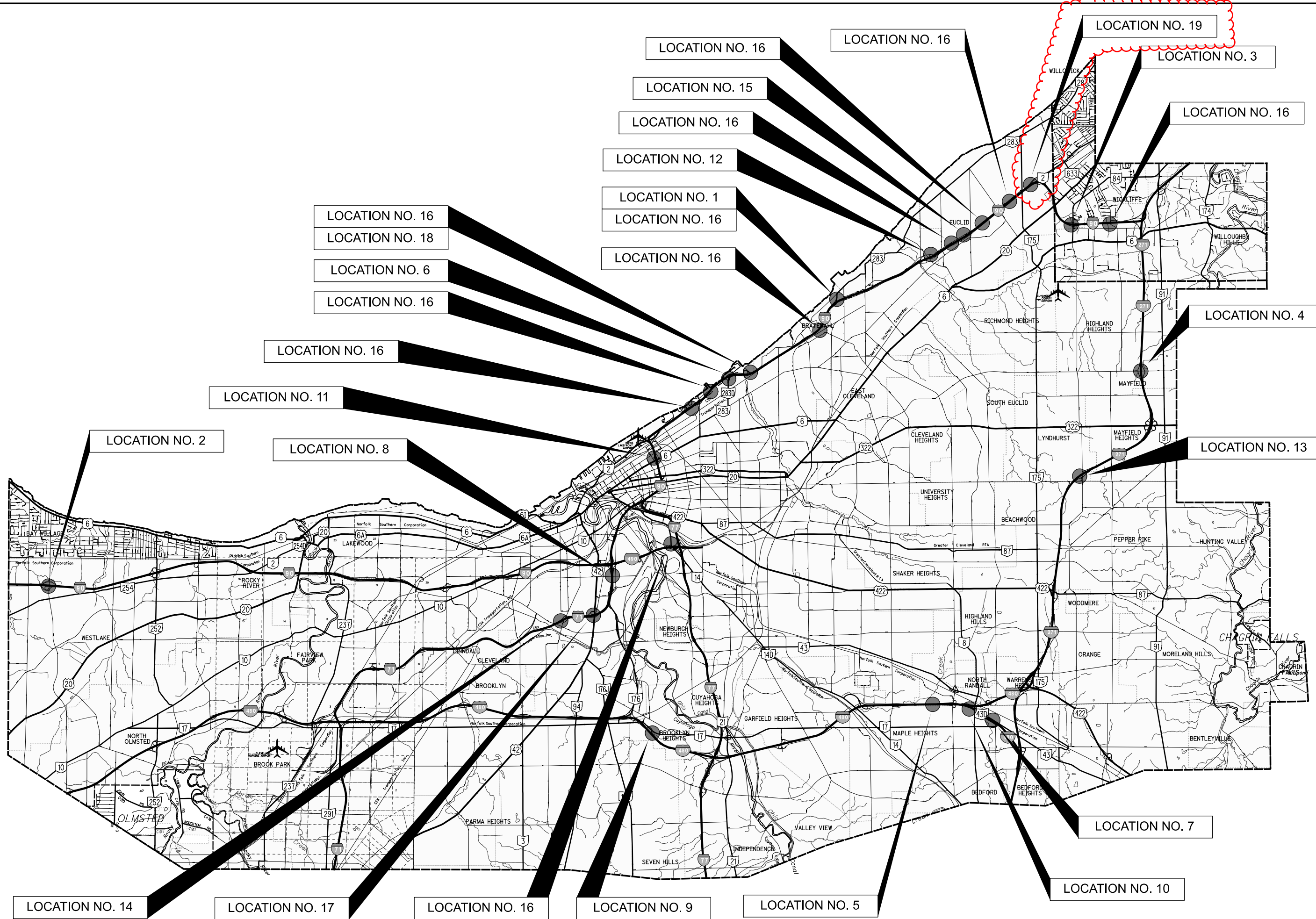
STANDARD DRAWINGS						SUPPLEMENTAL SPECIFICATIONS	
F-3.2	7-18-14	HL-30.22	4-17-20	MT-95.45	1-17-20	800	1-15-21
		HL-40.20	7-17-20	MT-95.50	7-21-17	813	10-19-18
HL-10.11	4-17-20	HL-60.11	7-21-17	MT-98.10	1-17-20	821	4-20-12
HL-10.12	1-20-17	HL-60.12	4-17-20	MT-98.11	1-17-20	832	10-19-18
HL-10.13	4-17-20	HL-60.21	7-20-18	MT-98.20	4-19-19	921	4-20-12
HL-10.31	4-17-20	HL-60.31	1-17-20	MT-98.22	1-17-20		
HL-20.11	7-17-20			MT-98.28	1-17-20		
HL-20.21	1-19-18	MT-95.30	7-19-19	MT-105.10	1-17-20		
HL-30.11	7-17-20	MT-95.31	7-19-19				
HL-30.21	1-17-14	MT-95.32	4-19-19				

ENGINEERS SEAL:

SIGNED: *Eric M. Kallio*
DATE: 01-26-2021

FEDERAL PROJECT NO. NON FEDERAL
RAILROAD INVOLVEMENT NONE
TITLE SHEET
DESIGN AGENCY
DESIGNER FLK
REVIEWER FLK 10/15/20
PROJECT ID 103299
SHEET TOTAL P.1 45

CUY-LG-FY2021
 MODEL: Sheet1 PAPER SIZE: (7x11 in.) DATE: 1/17/2021 TIME: 10:32:22 AM USER: hromopka
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LOCATION NO. 14

LOCATION NO. 17

LOCATION NO. 16

LOCATION NO. 9

LOCATION NO. 5

LOCATION NO. 10

LOCATION NO. 7

LOCATION NO. 13

LOCATION NO. 4

LOCATION NO. 3

LOCATION NO. 16

LOCATION NO. 16

LOCATION NO. 1
LOCATION NO. 16

LOCATION NO. 12

LOCATION NO. 16

LOCATION NO. 15

LOCATION NO. 16

LOCATION NO. 16

LOCATION NO. 16

LOCATION NO. 6

LOCATION NO. 18

LOCATION NO. 16

LOCATION NO. 11

LOCATION NO. 8


LOCATION NO. 2

DESIGN AGENCY	
DESIGNER	FLK
REVIEWER	FLK 10/15/20
PROJECT ID	103299
SHEET	TOTAL
P.2	45

LOCATION MAP

SHEET NUM.											PART.	ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE SHEET NO.
4	6	7	8			11	12	13	14		01/NFP/OT	EXT	TOTAL				
ROADWAY																	
LS									2		LS	201	11000	LS		CLEARING AND GRUBBING	
											2	202	75704	2	EACH	REMOVAL OF EXISTING CONTROL CENTER AND FOUNDATION	
2											2	607	61201	2	EACH	GATE, TYPE CLT, AS PER PLAN	4
EROSION CONTROL																	
											1,000	832	30000	1,000	EACH	EROSION CONTROL	
LIGHTING																	
						29		10			39	625	00450	39	EACH	CONNECTION, FUSED PULL APART	
						29		2			31	625	00460	31	EACH	CONNECTION, UNFUSED PULL APART	
						44		43			87	625	00480	87	EACH	CONNECTION, UNFUSED PERMANENT	
						11		6			17	625	10490	17	EACH	LIGHT POLE, CONVENTIONAL, AT10B34	
						4					4	625	10490	4	EACH	LIGHT POLE, CONVENTIONAL, AT20B41	
						1					1	625	12300	1	EACH	LIGHT TOWER, BBB110	
						1					1	625	12950	1	EACH	LIGHT TOWER, BBBB70	
						1					3	625	13000	3	EACH	LIGHT TOWER, BBBB80	
								2			1	625	13100	1	EACH	LIGHT TOWER, BBBB90	
								1			1	625	13250	1	EACH	LIGHT TOWER, BBBB70	
						3					3	625	13400	3	EACH	LIGHT TOWER, BBBB100	
						1		1			2	625	13440	2	EACH	LIGHT TOWER, BBBB100	
						1		1			2	625	13500	2	EACH	LIGHT TOWER, MISC.: REPLACE LUMINAIRE LOWERING DEVICE	4
						1		1			2	625	13500	2	EACH	LIGHT TOWER, MISC.: REPLACE HOISTING CABLE AND WINCH CABLE	4
						11		6			17	625	14000	17	EACH	LIGHT POLE FOUNDATION, 24" X 6' DEEP	
						4					4	625	14100	4	EACH	LIGHT POLE FOUNDATION, 24" X 8' DEEP	
						3					3	625	15000	3	EACH	LIGHT TOWER FOUNDATION, 36" X 15' DEEP	
						4					6	625	15100	6	EACH	LIGHT TOWER FOUNDATION, 36" X 20' DEEP	
								2			1	625	15200	1	EACH	LIGHT TOWER FOUNDATION, 36" X 25' DEEP	
								1			2	625	15300	2	EACH	LIGHT TOWER FOUNDATION, 36" X 30' DEEP	
						8,009		2,060			10,069	625	23200	10,069	FT	NO. 4 AWG 2400 VOLT DISTRIBUTION CABLE	
								1,950			1,950	625	23300	1,950	FT	NO. 2 AWG 2400 VOLT DISTRIBUTION CABLE	
						1,490		720			2,210	625	23400	2,210	FT	NO. 10 AWG POLE AND BRACKET CABLE	
						3,288		400			3,688	625	24100	3,688	FT	1-1/2" DUCT CABLE WITH TWO NO. 4 AWG 2400 VOLT CABLES	
								700			700	625	24300	700	FT	1-1/2" DUCT CABLE WITH TWO NO. 2 AWG 2400 VOLT CABLES	
								535			535	625	24320	535	FT	1-1/2" DUCT CABLE WITH THREE NO. 4 AWG 2400 VOLT CABLES	
						170		705			875	625	25500	875	FT	CONDUIT, 3", 725.04	
							3,577		115		3,692	625	25910	3,692	FT	CONDUIT CLEANED AND CABLES REMOVED	
							4		4		8	625	26252	8	EACH	LUMINAIRE, CONVENTIONAL, SOLID STATE (LED), 480 VOLT	
							58		16		74	625	27520	74	EACH	REMOVAL OF LUMINAIRE AND REERECTION	
											5,178	625	29002	5,178	FT	TRENCH, 24" DEEP	
							11		6		17	625	30700	17	EACH	PULL BOX, 725.08, 18"	
									6		6	625	30706	6	EACH	PULL BOX, 725.08, 24"	
							11		4		15	625	31510	15	EACH	PULL BOX REMOVED	
							31		14		45	625	32000	45	EACH	GROUND ROD	
									11		11	625	34001	11	EACH	POWER SERVICE, AS PER PLAN	5
							1		1		2	625	35020	2	EACH	RE-ERECT EXISTING LIGHT TOWER	
							3,288		1,890		5,178	625	36010	5,178	FT	UNDERGROUND WARNING/MARKING TAPE	
							9		3		12	625	75350	12	EACH	MAINTAIN EXISTING LIGHTING	5, 6
											12	625	75350	12	EACH	LIGHT TOWER REMOVED	
							15		6		21	625	75401	21	EACH	LIGHT POLE REMOVED, AS PER PLAN	6
							15		6		21	625	75500	21	EACH	LIGHT POLE FOUNDATION REMOVED	
									12		12	625	75510	12	EACH	POWER SERVICE REMOVED	
							6		2		8	625	75540	8	EACH	LIGHT TOWER FOUNDATION REMOVED	
							2		2		4	625	75541	4	EACH	LIGHT TOWER FOUNDATION REMOVED, AS PER PLAN	6
									1		1	625	75800	1	EACH	DISCONNECT CIRCUIT	
LS									1		LS	625	98200	LS		LIGHTING, MISC.: TEST CIRCUITS	6
											1	631	85302	1	EACH	DISCONNECT SWITCH WITH ENCLOSURE, 30 AMP	

GENERAL SUMMARY


DESIGN AGENCY

 DESIGNER
 REVIEWER
 PROJECT ID
 SHEET TOTAL
 P.9 | 45

SHEET NUM.

4	6	7	8	11	12	13	14	PART.	ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE SHEET NO.
								01/NFP/OT		EXT	TOTAL			
			150					150	614	11110	150	HOUR	MAINTENANCE OF TRAFFIC LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE	
		100						100	630	97800	100	SF	SIGNING, MISC.: ADDITIONAL SIGNS, GROUND MOUNTED, AS DIRECTED BY THE ENGINEER	7
													INCIDENTALS	
								LS	614	11000	LS		MAINTAINING TRAFFIC	
								LS	624	10000	LS		MOBILIZATION	

GENERAL SUMMARY

DESIGN AGENCY



DESIGNER
FLK


REVIEWER
FLK 01/07/21

PROJECT ID
103299

SHEET TOTAL
P.10 | 45


LOCATION NO.	CIRCUIT	NEW POLE NUMBER	STATION TO STATION	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625			
				CONNECTION, FUSED PULL APART	CONNECTION, UNFUSED PULL APART	CONNECTION, UNFUSED PERMANENT	LIGHT POLE, CONVENTIONAL, AT10B34	LIGHT POLE, CONVENTIONAL, AT20B41	LIGHT TOWER, BBB110	LIGHT TOWER, BBBB70	LIGHT TOWER, BBBB80	LIGHT TOWER, BBBBBB70	LIGHT TOWER, BBBBBB100	LIGHT TOWER, BBBBBB100	LIGHT TOWER, MISC.: REPLACE LUMINAIRE LOWERING MECHANISM	LIGHT TOWER, MISC.: REPLACE HOISTING CABLES AND WINCH CABLE	LIGHT POLE FOUNDATION, 24" X 6' DEEP	LIGHT POLE FOUNDATION, 24" X 8' DEEP	LIGHT TOWER FOUNDATION, 36" X 15' DEEP	LIGHT TOWER FOUNDATION, 36" X 20' DEEP	LIGHT TOWER FOUNDATION, 36" X 30' DEEP	LIGHT TOWER FOUNDATION, 36" X 30' DEEP	LIGHT TOWER, BBBB90	NO. 4 AWG 2400 VOLT DISTRIBUTION CABLE	NO. 2 AWG 2400 VOLT DISTRIBUTION CABLE	NO. 10 AWG POLE AND BRACKET CABLE	1-1/2" DUCT CABLE WITH TWO NO. 4 AWG 2400 VOLT CABLES	1-1/2" DUCT CABLE WITH TWO NO. 2 AWG 2400 VOLT CABLES	1-1/2" DUCT CABLE WITH THREE NO. 4 AWG 2400 VOLT CABLES	LIGHT TOWER FOUNDATION, 36" X 25' DEEP	CONDUIT, 3", 725.04
				EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	FT	FT	FT	FT	FT	FT	EACH	FT		
9	AE	AE10	34+44 (SR-17) 79+71 (RAMP E-G)	2			1								1																
		AE9	79+71 81+72	2			1								1																
		AE8	81+72 83+76	2		3	1								1																
		AE7	83+76	2			1								1																
10	AN		LANE S-95/S-96																												
	AR	AAR6				4																500				450			240		
11	STC2		4+20 5+55			2																				145					
		STC2-11	5+55 6+60	1	1		1								1									90		145					
		STC2-12	6+60	1	1		1								1									90							
12	NEF1		273+50																												
		NEF1-2				2																									
13	WBR	WBR4	603+60																												
14	2DEN2		957+70																												
		2DEN2-1																													
15	VIL2		327+95 327+40 327+40 325+65			2 2																									
16	M		2+20 IR-90 WB																												
	MCL		MCELHATTEN AVE.			8																									
	VIV		N. LAKELAND BLVD. WB																												
	ARM		N. LAKELAND BLVD. WB																												
	VIL		N. LAKELAND BLVD. WB																												
	RK		11+00 ROCKEFELLER RD.				6																								
	BRO		SR-14 (BROADWAY AVE.)/E. 37TH ST.																												
	D		S. MARGINAL RD. EB																												
	E		DICK GODDARD WAY			4																									
	D		99+95 IR-90 EB																												
17	SCR		IR-71 SB/W.25TH			8																									
18	FA		IR-90 EB/MLK JR DR.			2								1													110				
19	BEN2		IR-90/SR-2																												
TOTALS CARRIED TO GENERAL SUMMARY				10	2	43	6								2																

LIGHTING SUBSUMMARY

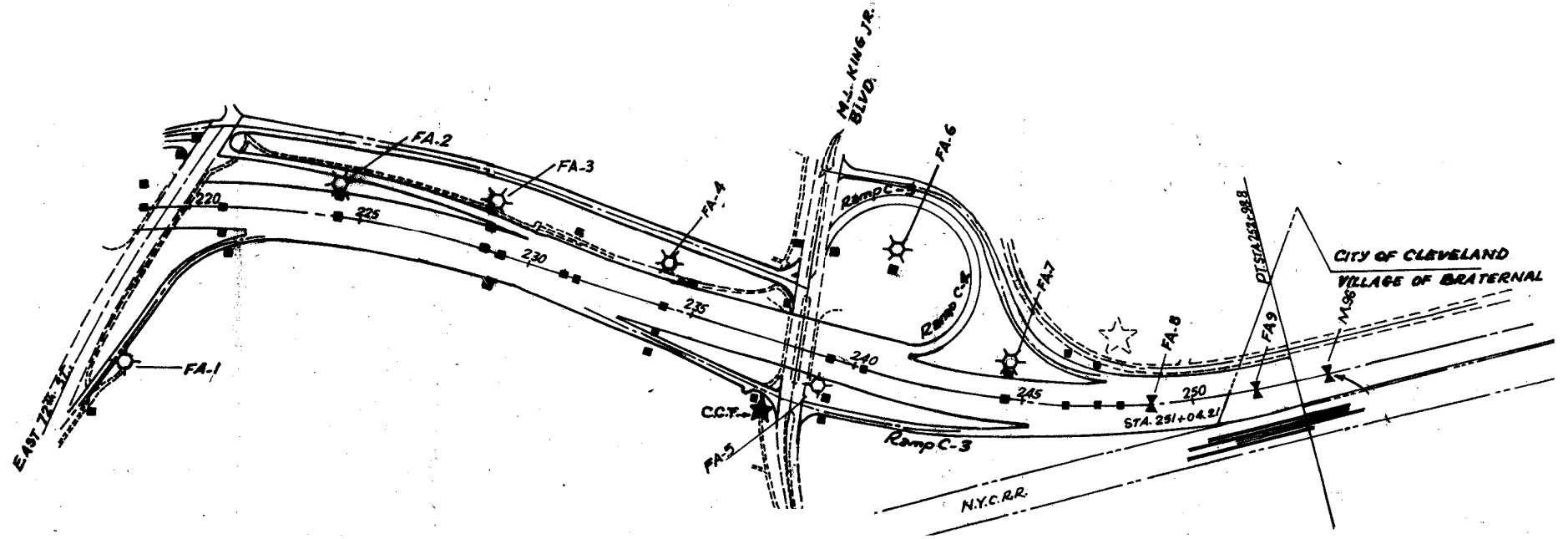
DESIGN AGENCY

 DESIGNER
 FLK
 REVIEWER
 FLK 11/06/20
 PROJECT ID
 103299
 SHEET TOTAL
 P.13 45

LOCATION NO.	CIRCUIT	NEW POLE NUMBER	STATION TO STATION	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	631	202
				CONDUIT CLEANED AND CABLES REMOVED	LUMINAIRE, CONVENTIONAL, SOLID STATE (LED), AS PER PLAN	REMOVAL OF LUMINAIRE AND REERECTION	TRENCH, 24" DEEP	PULL BOX, 725.08, 18"	PULL BOX, 725.08, 24"	PULL BOX REMOVED	GROUND ROD	POWER SERVICE, AS PER PLAN	RE-ERECT EXISTING LIGHT TOWER	UNDERGROUND WARNING/MARKING TAPE	LIGHT TOWER REMOVED	LIGHT POLE REMOVED, AS PER PLAN	LIGHT POLE FOUNDATION REMOVED	POWER SERVICE REMOVED	LIGHT TOWER FOUNDATION REMOVED	LIGHT TOWER FOUNDATION REMOVED, AS PER PLAN	DISCONNECT CIRCUIT	DISCONNECT SWITCH WITH ENCLOSURE, 30 AMP	REMOVAL OF EXISTING CONTROL CENTER AND FOUNDATION		
				FT	EACH	EACH	FT	EACH	EACH	EACH	EACH	EACH	FT	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH
9	AE	AE10	34+44 (SR-17) 79+71 (RAMP E-G)		1		100				1			100		1	1								
		AE9	79+71 81+72		1		200				1			200		1	1								
		AE8	81+72 83+76		1		205				1			205		1	1								
		AE7	83+76		1						1					1	1								
10	AN		LANE S-95/S-96																						
	AR	AAR6					350	2						350									1		
11	STC2		4+20 5+55				135	1						135											
		STC2-11	5+55 6+60			1	105				1			105		1	1								
		STC2-12	6+60		1						1					1	1								
12	NEF1		273+50																						
		NEF1-2		15		4	15				2			15									1		
13	WBR	WBR4	603+60			6										1									
14	2DEN2		957+70																						
		2DEN2-1				4					2													1	
15	VIL2		327+95 327+40 327+40 325+65				55 175	1 1			1 1			55 175											
16	M		2+20 IR-90 WB																						
	MCL		MCELHATTEN AVE.				200			2				200											
	VIV		N. LAKELAND BLVD. WB																						
	ARM		N. LAKELAND BLVD. WB																						
	VIL		N. LAKELAND BLVD. WB																						
	RK		11+00 ROCKEFELLER RD.	100																					
	BRO		SR-14 (BROADWAY AVE.)/E. 37TH ST.																						
	D		S. MARGINAL RD. EB																						
	E		DICK GODDARD WAY				50			1				50											
	D		99+95 IR-90 EB																						
17	SCR		IR-71 SB/W.25TH				200			2	1			200											
18	FA		IR-90 EB/MLK JR DR.				100			1	1	2		100										1	
19	BEN2		IR-90/SR-2									2													
TOTALS CARRIED TO GENERAL SUMMARY				115	4	16	1890	6	6	4	14		11	1	1890	3	6	6	12		2	2	1	1	2

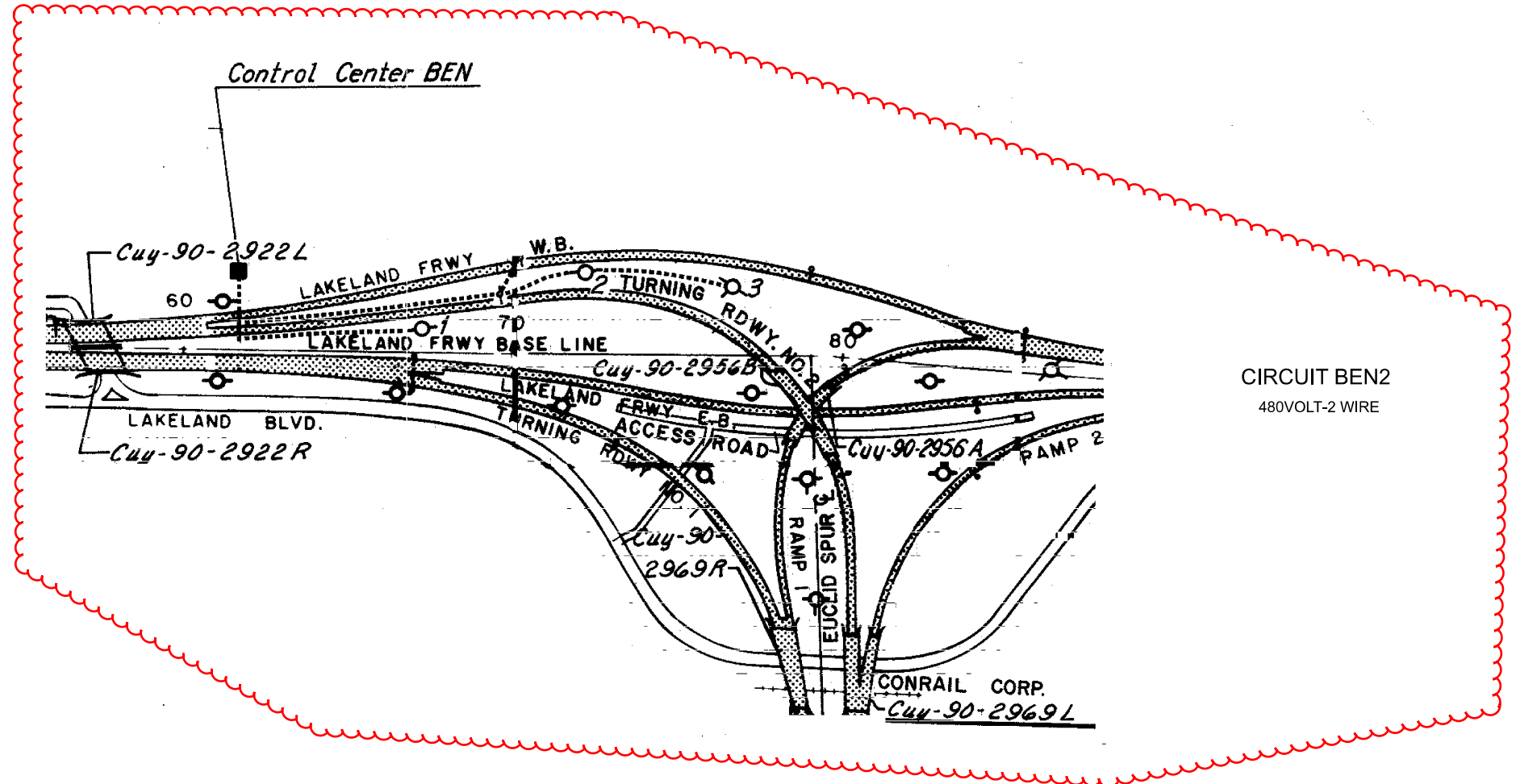
LIGHTING SUBSUMMARY

DESIGN AGENCY

 DESIGNER
 FLK
 REVIEWER
 FLK 11/06/20
 PROJECT ID
 103299
 SHEET TOTAL
 P.14 45

CIRCUIT FA
480VOLT-2 WIRE

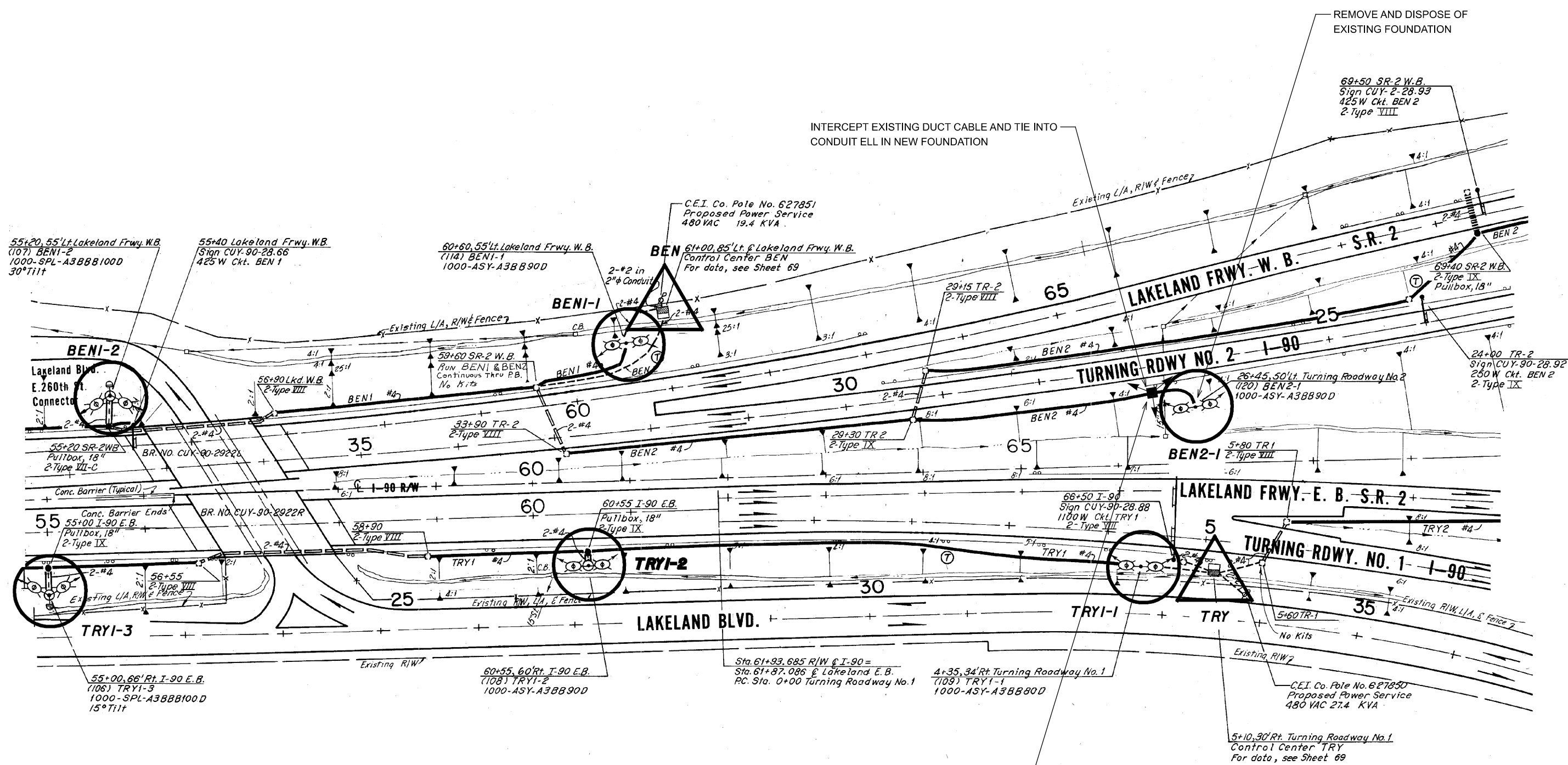


Control Center BEN



CIRCUIT BEN2
480VOLT-2 WIRE

DESIGN AGENCY	
DESIGNER	FLK
REVIEWER	FLK
PROJECT ID	103299
SUBSET	TOTAL
0	0
SHEET	TOTAL
P.21	45



INTERCEPT EXISTING DUCT CABLE AND TIE INTO CONDUIT ELL IN NEW FOUNDATION

REMOVE AND DISPOSE OF EXISTING FOUNDATION

LOCATE NEW TOWER (BEN2-1) AND FOUNDATION 10'+/- WEST FROM EXISTING TOWER

CONTRACTOR TO INSTALL FOUNDATION AND TOWER READY TO RECEIVE LUMINAIRES. ODOT FORCES TO INSTALL HPS LUMINAIRES.

PROPOSED WORK:
 1. REMOVE AND DISPOSE OF EXISTING LIGHT TOWER FOUNDATION.
 2. INSTALL NEW LIGHT TOWER ON NEW FOUNDATION.

CUY-LG-FY2021
 MODEL: Sheet PAPER SIZE: 11x17 (in.) DATE: 4/30/2021 TIME: 8:47:11 AM USER: fkonopka
 pw:\ohlodot-pw\bentley.com\ohlodot-pw-02\Documents\01 Active Projects\Lighting\Lighting Sheets\103299_LP024.dgn

LOCATION NO. 19
 IR-90 AT SR-2 INTERCHANGE

DESIGN AGENCY	FLK
DESIGNER	FLK
REVIEWER	FLK 10/27/20
PROJECT ID	103299
SHEET	P.44A
TOTAL	45