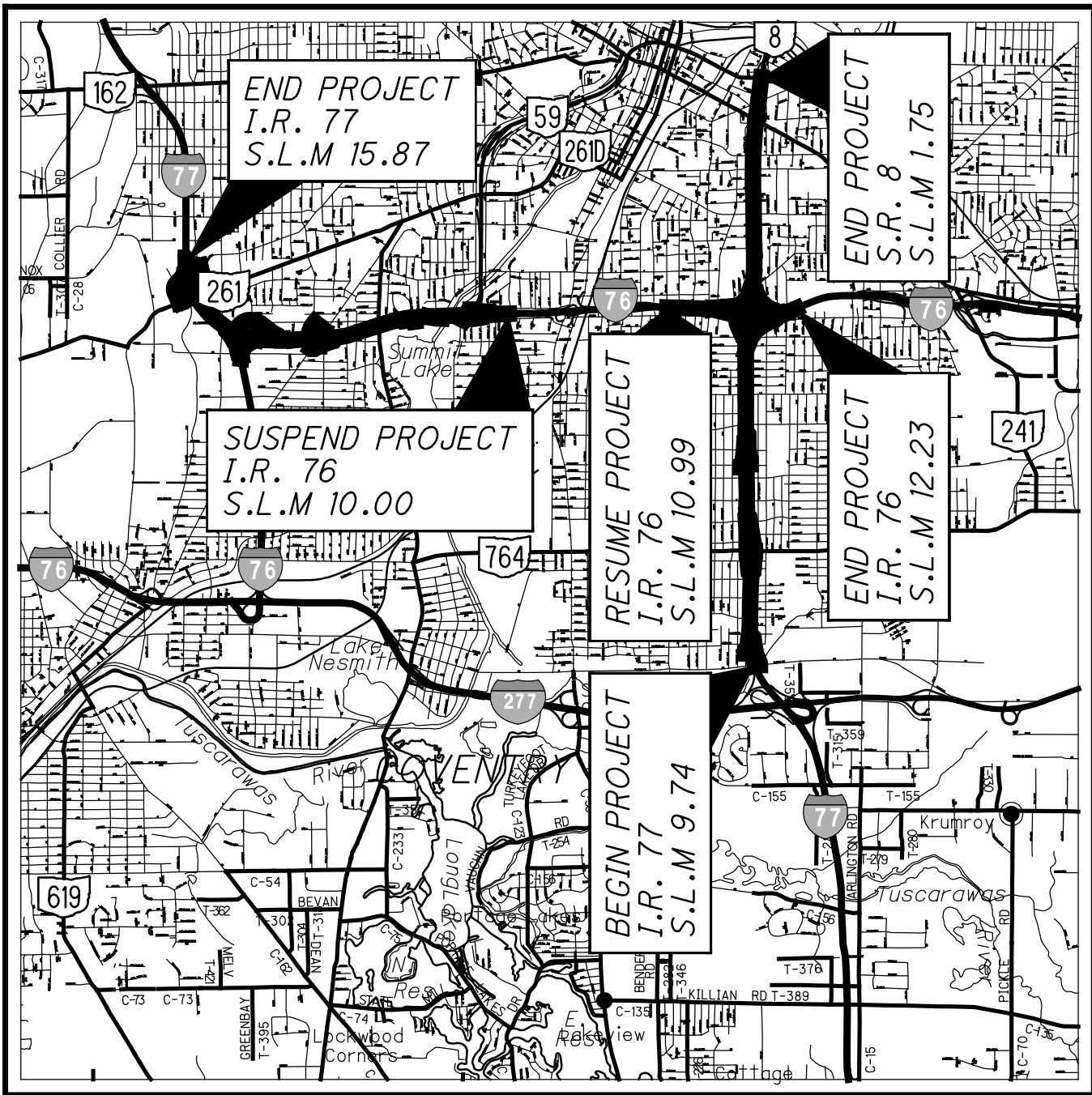


SUSER STATESTAMPS DATE: 9/10/2026 2:51:29 PM bschneider



LOCATION MAP

LATITUDE: 41° 03' 43" LONGITUDE: 81° 30' 17"



PORTION TO BE IMPROVED	
INTERSTATE HIGHWAY	
FEDERAL ROUTES	
STATE ROUTES	
COUNTY & TOWNSHIP ROADS	
OTHER ROADS	

DESIGN DESIGNATION

ROADWAY PLANS: SEE BU-19

NHS PROJECT

DESIGN EXCEPTIONS

N/A

RECORD DRAWING PLANS

BU-37A - LIGHTING I-76/I-77/SR-8 CENTRAL INTERCHANGE

The undersigned hereby confirms that, to the best of their knowledge, all known field modifications made after the Released for Construction plans were sealed by the Designer are included in these drawings.

RSS JV

Signed: [Signature]

Assistant Project Manager

Date: 9/17/2026

The undersigned hereby confirms that, to the best of their knowledge, all presented field changes have been included in the Record Drawings and the Designer concurs that the changes meet the design intent of the Contract.

Parsons Transportation Group, Inc.

Signed: [Signature]

Fernando Rodriguez
Design Project Manager

Date: September 17, 2026

UNDERGROUND UTILITIES

Contact Two Working Days
Before You Dig



OHIO811, 8-1-1, or 1-800-362-2764
(Non-members must be called directly)



PLAN PREPARED BY:

AMERICAN
STRUCTUREPOINT
INC.

2550 CORPORATE EXCHANGE DR, STE 300
COLUMBUS, OH 43231
TEL 614.901.2235 FAX 614.901.2236
www.structurepoint.com

ENGINEERS SEAL:

MODIFICATIONS TO LIGHTING
SHEETS 21,22,24,25,26,34,38



SIGNED: [Signature]
DATE: 4/6/2022

STATE OF OHIO
DEPARTMENT OF TRANSPORTATION
SUM-76-8.24
SUM-77-9.74
SUM-8-0.00
CITY OF AKRON
SUMMIT COUNTY

INDEX OF SHEETS:

TITLE SHEET	1
PID 101402 TITLE SHEET	2
PID 101402 LIGHTING NOTES	3-4
PID 101402 LIGHTING GEN SUM	5-6
PID 101402 LIGHTING SUBSUM	7-12
PID 101402 LIGHTING SCHEMATIC	13
PID 101402 LIGHTING PLANS	14-25
LIGHTING MODIFICATION - SR8	26
PID 101402 UNDERPASS LIGHTING	27-30
PID 101402 TOWER ELEVATION	31-33
PID 101402 WIRING DIAGRAM	34-35
PID 101402 BRIDGE LIGHTING DETAILS	36-39

FOR MOT, SEE BU-04, BU-05, BU-07
FOR STRUCTURES WORK, SEE BU-12 & BU-15
FOR SCHEMATIC PLAN & SURVEY CONTROL, SEE BU-19
FOR REMOVALS, SEE BU-27
FOR ROADWAY, SEE BU-33A, BU-33B CENTRAL INTERCHANGE
FOR TRAFFIC CONTROL, SEE BU-41
FOR FENCING PLANS, SEE BU-42

PROJECT DESCRIPTION

THE AKRON CENTRAL INTERCHANGE PROJECT (PID 102329) INCLUDES RECONSTRUCTION OF IR-76 EB/WB PAVEMENT FROM SLM 11.05 (IR-76) TO SLM (IR-76) FOR APPROX. 1.16 MILES OF MAINLINE WORK. THIS PROJECT ALSO INCLUDES REPLACEMENT OF TWO FREEWAY STRUCTURES (RAMP N AND RAMP Q) ON NEW ALIGNMENTS, WIDENING OF TWO EXISTING BRIDGES (IR-76 EB OVER BROWN STREET AND IR-76 WB OVER INMAN STREET), CONSTRUCTION OF A NEW PEDESTRIAN/MULTI-USE OVERPASS SPANNING SR-8, AND CONSTRUCTION OF NOISE BARRIERS AT THE PERIMETER OF THE INTERCHANGE. PORTIONS OF SR-9, LANE O AND LANE S ARE TO BE RESURFACED. THE EXISTING IR-76 WB TO INMAN STREET AND IR-77 SB TO LOVERS LANE WILL BE REMOVED PERMANENTLY, AS WELL AS THE EXISTING LAFOLLETTE STREET BRIDGE OVER SR-8 (SUM-77-1184).

BUILDABLE UNIT 37A DESCRIPTION

THIS BUILDABLE UNIT SHOW CONSTRUCTION OF PROPOSED LIGHTING AT CENTRAL INTERCHANGE ALONG IR-77/IR-76 AND SR-8. MAJORITY OF LIGHTING DESIGN PLANS ARE FROM THE SIGNED AND SEALED PLANS OF PID 101402. ANY MODIFICATIONS TO THAT DESIGN DUE TO CONSTRUCTION NEEDS ARE INCLUDED IN THIS BUILDABLE UNIT.

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 OHIO REVISED CODE.

2019 SPECIFICATIONS

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PLANS AND CHANGES LISTED IN THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.



BU-37A

LIGHTING

IR-76 / IR-77 / SR-8
Central Interchange

RFC PLANS
April 6, 2022

ISSUE RECORD:

NO.	DATE	DESCRIPTION
1	4/6/22	REVISED FROM SUM-76/77/8.24/9.74/0.00 (RFI-19)
2	11/7/24	JUNCTION BOX AND HIGH MAST TOWER REVISION
AB	5/21/24	SB SR8 CONDUIT REROUTE
AB	10/23/24	UNDERPASS LUMINAIRES MOVED
AB	10/30/24	CIRCUIT REROUTE SOUTH JOHNSTON ST
AB	3/02/26	CONDUIT AND CIRCUIT REROUTE

2026-09-10 - BU-37A - RECORD DRAWING PLANS

RAILROAD INVOLVEMENT

NONE

CONSTRUCTION PROJECT NO.

21-3000

PID NO.

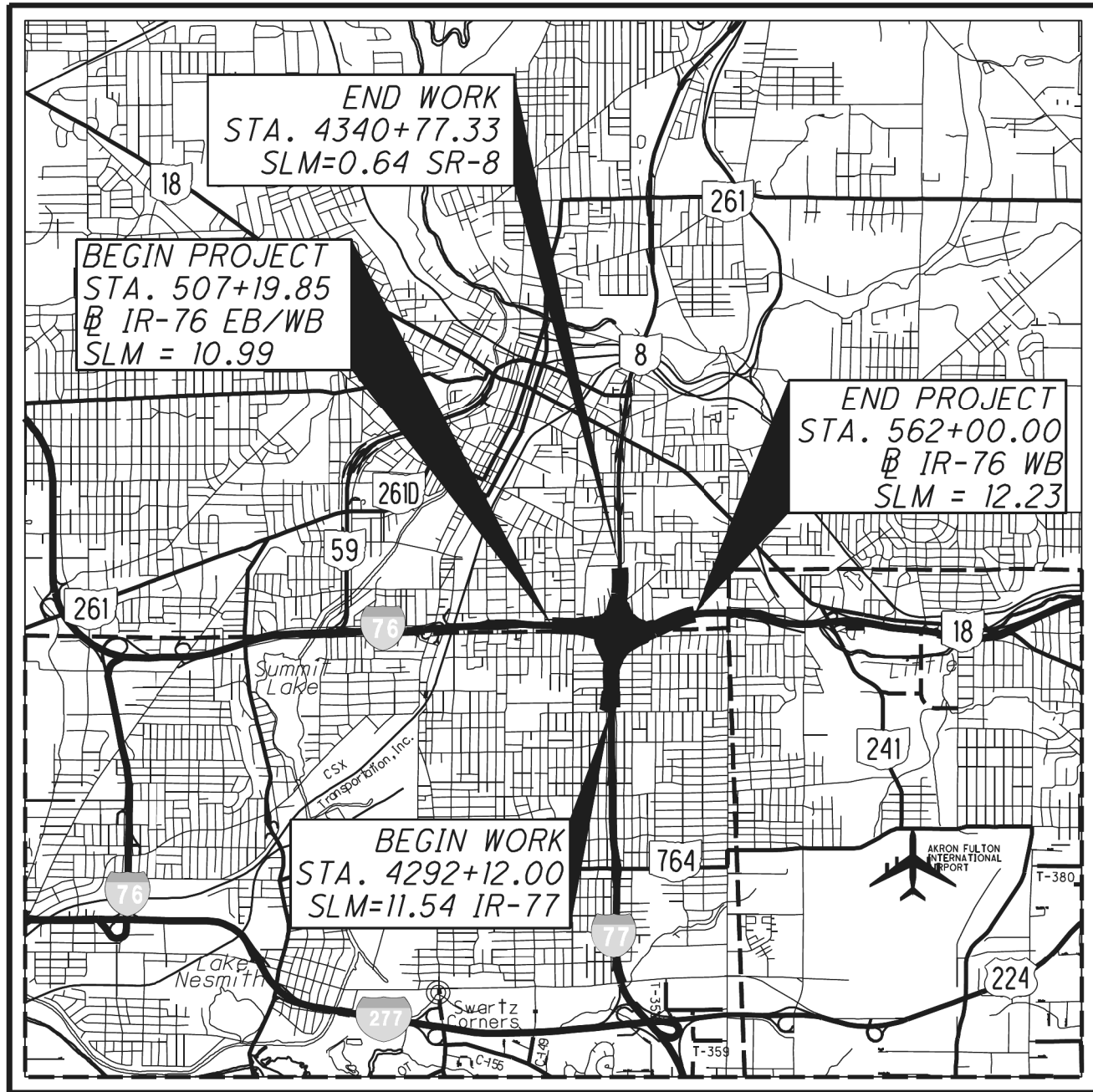
102329

FEDERAL PROJECT NO.

E180(428)

SUM-76 / 77 / 8 -
8.24 / 9.74 / 0.00

SUSER SPATES DATE TIME STAMPS FILE NAME C:\Users\jparsons\Documents\Ohio State\Documents\B-Akron Beltway Rehab\0 - Design\02329 Lighting\Sheets\BU-37A\02329_CT500_BU37A_Sheet 6/26/2026 4:03:45 PM bschneider



LOCATION MAP

LATITUDE: N 41°03' 43" LONGITUDE: W 81°30' 17"



PORTION TO BE IMPROVED -----
INTERSTATE HIGHWAY -----
FEDERAL ROUTES -----
STATE ROUTES -----
COUNTY & TOWNSHIP ROADS -----
OTHER ROADS -----

ENGINEERS SEAL:

RETAINING WALLS, NOISE WALLS, BRIDGE SHEETS:
442-446, 451-488, 495-529, 678, 682-686, 705-711, 715, 750-893, 935-950

STATE OF OHIO
THOMAS A. BOLTE
E-46045
REGISTERED PROFESSIONAL ENGINEER

SIGNED: Thomas A. Bolte
DATE: 6/1/2020

ENGINEERS SEAL:

NOISE WALLS SHEETS:
679-681, 687-704, 712-714

STATE OF OHIO
DENNIS FITZGERALD
E-70274
REGISTERED PROFESSIONAL ENGINEER

SIGNED: Dennis Fitzgerald
DATE: 6/1/2020

ENGINEERS SEAL:

RETAINING WALLS, BRIDGES SHEETS:
447-450, 489-494, 716-749, 894-934

STATE OF OHIO
NICHOLAS M. SAVAGE
E-84792
REGISTERED PROFESSIONAL ENGINEER

SIGNED: Nicholas M. Savage
DATE: 6/1/20

ENGINEERS SEAL:

LIGHTING SHEETS: 643-673

STATE OF OHIO
MARK J. HUNTER
E-56376
REGISTERED PROFESSIONAL ENGINEER

SIGNED: Mark J. Hunter
DATE: 6/1/20

ENGINEERS SEAL:

LIGHTING SHEETS: 674-677

STATE OF OHIO
ROBERTA J. CAMERUCA
#53781
REGISTERED PROFESSIONAL ENGINEER

SIGNED: Roberta J. Cameruca
DATE: 06/01/2020

SEE SHEET 2 FOR INDEX OF SHEETS

SEE SHEET 3 FOR DESIGN DESIGNATIONS AND EXCEPTIONS

UNDERGROUND UTILITIES
Contact Two Working Days
Before You Dig


Before You Dig

OHIO811, 8-1-1, or 1-800-362-2764
(Non-members must be called directly)

PLAN PREPARED BY:
BURGESS & NIPLE
5085 REED ROAD
COLUMBUS, OH 43220



STANDARD CONSTRUCTION DRAWINGS												SUPPLEMENTAL SPECIFICATIONS		SPECIAL PROVISIONS
BP-2.1	7/17/15	DM-1.1	7/21/17	I-2.1	1/15/16	A-1-69	7/19/02	HL-10.11	4/17/20	TC-7.65	7/20/18	TC-65.10	1/17/14	
BP-2.2	7/18/08	DM-1.2	1/18/13	I-2.2	1/15/16	AS-1-81	7/19/02	HL-10.12	1/20/17	TC-15.115	7/20/18	TC-65.11	7/21/17	800 10/16/20
BP-2.5	7/19/13	DM-2.1	1/18/13	I-2.3	1/15/16	AS-1-15	7/17/15	HL-10.13	4/17/20	TC-21.10	7/19/19	TC-71.10	1/19/18	807 4/17/20
BP-3.1	7/18/14	DM-3.1	1/18/13			AS-2-15	1/18/19	HL-10.31	4/17/20	TC-21.20	7/20/18	TC-72.20	7/20/18	809 1/17/20
BP-3.2	1/18/19	DM-4.1	7/20/18	MH-1.1	1/15/16			HL-20.11	4/17/20	TC-21.50	7/15/16			813 10/19/18
BP-5.1	1/18/19	DM-4.2	7/20/12	MH-1.2	1/15/16	EXJ-4-87	1/19/18	HL-20.13	4/17/20	TC-22.10	10/18/13			825 1/17/20
BP-6.1	7/19/13	DM-4.3	1/15/16					HL-20.21	1/19/18	TC-22.20	1/17/14			832 10/19/18
BP-7.1	7/20/18	DM-4.4	1/15/16	RM-1.1	7/18/14	GSD-1-19	1/18/19	HL-20.24	1/19/18	TC-41.10	7/19/13			837 7/19/19
BP-8.1	7/18/08			RM-4.1	1/17/20			HL-30.11	4/17/20					845 4/20/18
BP-8.2	1/18/19	F-1.1	7/19/13	RM-4.2	1/17/20	NBS-1-09	1-19-18	HL-30.21	4/17/20	TC-41.20	10/18/13			846 4/17/15
BP-9.1	1/18/19	F-3.1	7/19/13	RM-4.3	7/18/14			HL-30.22	4/17/20	TC-41.30	10/18/13			848 1/20/17
		F-3.2	7/18/14	RM-4.4	7/19/19	PCB-91	1/18/13	HL-30.41	4/17/20	TC-41.40	10/18/13			850 4/17/20
CB-1.1	7/19/19	F-3.3	7/19/13	RM-4.5	7/21/17			HL-40.10	1/20/17	TC-41.50	10/18/13			855 4/20/18
CB-2.1	7/20/18	F-3.4	7/19/13	RM-4.6	7/19/13	SBR-1-13	7/20/18	HL-50.21	4/17/20	TC-42.10	10/18/13			875 1/18/19
CB-2.2	7/20/18			RM-5.1	7/18/14	SBR-2-13	7/20/18	HL-60.11	7/21/17	TC-42.20	10/18/13			899 1/17/20
CB-2.3	1/15/16	MGS-1.1	1/19/18					HL-60.12	4/17/20					992 4/18/14
CB-3.1	1/15/16	MGS-2.1	1/19/18			SICD-1-96	7/18/14	HL-60.21	7/20/18	TC-51.11	1/15/16			
CB-3.2	1/15/16	MGS-3.1	1/19/18			SICD-2-14	7/18/14	HL-60.31	1/17/20	TC-51.12	1/15/16			
CB-3.3	1/15/16	MGS-3.2	1/18/13							TC-52.10	10/18/13			
CB-3.4	1/15/16	MGS-4.2	7/19/13			VPF-1-90	7/20/18			TC-52.20	7/20/18			
CB-4.2	1/18/13	MGS-4.3	1/18/13							TC-61.10	1/17/20			
		MGS-5.2	7/15/16							TC-61.30	7/19/19			
		MGS-5.3	7/15/16							TC-64.10	1/17/20			

APPROVED _____
DATE _____ DISTRICT DEPUTY DIRECTOR

APPROVED _____
DATE _____ DIRECTOR, DEPARTMENT OF TRANSPORTATION

PROJECT DESCRIPTION

THE AKRON CENTRAL INTERCHANGE PROJECT (PID 101402) INCLUDES RECONSTRUCTION OF IR-76 EB/WB PAVEMENT FROM SLM 11.05 (IR-76) TO SLM 12.21 (IR-76) FOR APPROX. 1.16 MILES OF MAINLINE WORK. THIS PROJECT ALSO INCLUDES REPLACEMENT OF TWO FREEWAY STRUCTURES (RAMP N AND RAMP O) ON NEW ALIGNMENTS, WIDENING OF TWO EXISTING BRIDGES (IR-76 EB OVER BROWN STREET AND IR-76 WB OVER INMAN STREET), CONSTRUCTION OF A NEW PEDESTRIAN/MULTI-USE OVERPASS SPANNING SR-8, AND CONSTRUCTION OF NOISE BARRIERS AT THE PERIMETER OF THE INTERCHANGE. PORTIONS OF SR-8, LANE O AND LANE S ARE TO BE RESURFACED. THE EXISTING IR-76 WB TO INMAN STREET AND IR-77 SB TO LOVERS LANE WILL BE REMOVED PERMANENTLY, AS WELL AS THE EXISTING LAFOLLETTE STREET BRIDGE OVER SR-8 (SUM-77-1184).

EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED AREA: 52.03 ACRES
ESTIMATED CONTRACTOR EARTH DISTURBED AREA: 1.0 ACRES
NOTICE OF INTENT EARTH DISTURBED AREA: 53.03 ACRES

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 OHIO REVISED CODE.

2019 SPECIFICATIONS

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PLANS AND CHANGES LISTED IN THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

MAINTENANCE OF TRAFFIC ENDORSEMENT

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL REQUIRE THE CLOSING OF TRAFFIC OF THE HIGHWAY AND THAT DETOURS WILL BE PROVIDED AS INDICATED IN SUPPLEMENTAL MAINTENANCE OF TRAFFIC DOCUMENTATION AS PROVIDED BY ODOT DISTRICT 4.

FEDERAL PROJECT NO.		PID NO.		CONSTRUCTION PROJECT NO.		RAILROAD INVOLVEMENT		RAILROAD INVOLVEMENT	
E160353		101402				SUM-76 / 77 / 8		SUM-76 / 77 / 8 -	
E180(428)		102329		21-3000		10.99 / 11.54 / 0.00 - RECORD DRAWING PLANS		8.24 / 9.74 / 0.00	
						1		2	
						1022		39	

ITEM 625 - POWER SERVICE, AS PER PLAN
IN ADDITION TO THE REQUIREMENTS OF THE SPECIFICATIONS, THE FOLLOWING IS ADDED. THE POWER SUPPLYING AGENCY FOR THIS PROJECT IS:
POWER COMPANY - OHIO EDISON COMPANY
ADDRESS - 1910 WEST MARKET STREET, BLDG 1, AKRON, OHIO 44313
PHONE NUMBER - 330-436-4055
CONTACT NAME - DAVID L. MILLER

THE CONTRACTOR SHALL COORDINATE WITH THE POWER COMPANY EARLY IN THE PROJECT, TO ARRANGE POWER SERVICE A MINIMUM OF SIX WEEKS PRIOR TO THE ENERGIZATION OF THE POWER SERVICE.

THE ENGINEER SHALL ENSURE THAT EACH POWER SERVICE ELECTRICAL ENERGY ACCOUNT IS IN THE NAME OF AND THAT THE BILLING ADDRESS IS TO THE MAINTAINING AGENCY NOTED IN THE PLANS. THIS SHALL BE DONE NOT ONLY FOR EACH NEW POWER SERVICE ESTABLISHED BY THIS PROJECT BUT ALSO FOR EACH EXISTING POWER SERVICE, SINCE THERE MAY BE A REASSIGNMENT OF THE RESPONSIBILITY FOR AN EXISTING SERVICE AS A RESULT OF THE WORK PERFORMED BY THIS PROJECT.

PAYMENT WILL BE MADE AT THE UNIT BID PRICE FOR EACH CMS ITEM 625, "POWER SERVICE, AS PER PLAN" WHICH SHALL BE FULL COMPENSATION FOR ALL LABOR, MATERIALS AND INCIDENTALS REQUIRED TO COMPLETE THIS ITEM IN A SATISFACTORY AND WORKMANLIKE MANNER.

ITEM 625 - LUMINAIRE, LOW (HIGH) MAST, SOLID STATE (LED), AS PER PLAN: TYPE V, 480 VOLT
THE LUMINAIRE SHALL BE 3000K CCT, 400 WATTS (EQUIVALENT). THE LUMINAIRE ARRAYS AND ASSOCIATED ILLUMINATION TEST AREAS SPECIFIED IN CMS 725.11 ARE HEREBY WAIVED. INSTEAD, THE LUMINAIRES FOR LOW-MAST LIGHTING SHALL MEET THE FOLLOWING REQUIREMENTS:

LUMINAIRES FOR HIGH MAST OR LOW MAST LIGHTING UNITS WITH SYMMETRIC DISTRIBUTION SHALL BE HOLOPHANE HMLD3-PK2-3K-HVOLT-H-AW (319 WATTS), GENERAL ELECTRIC "EVOLVE" ERHM-01-5-50-VM-7-30-N-I-4B-GRAY-R (445 WATTS), EATON-COOPER CELESTON CST-10-4-D-8-T5R (308 WATTS) OR EQUAL AS APPROVED BY THE ENGINEER.

PAYMENT WILL BE MADE AT THE UNIT PRICE BID UNDER CMS ITEM 625, "LUMINAIRE, LOW MAST, AS PER PLAN", WHICH SHALL BE FULL COMPENSATION FOR ALL LABOR, MATERIALS AND INCIDENTALS REQUIRED TO COMPLETE THIS ITEM IN A SATISFACTORY AND WORKMANLIKE MANNER.

ITEM 625 - LUMINAIRE, (BY TYPE), SOLID STATE (LED), AS PER PLAN: TYPE III, 480 VOLT
THE LUMINAIRE FOR HIGN MAST OR LOW MAST LIGHTING SHALL BE 3000K CCT, 400 WATTS (EQUIVALENT). THE LUMINAIRE ARRAYS AND ASSOCIATED ILLUMINATION TEST AREAS SPECIFIED IN CMS 725.11 ARE HEREBY WAIVED. INSTEAD, THE LUMINAIRES SHALL MEET THE FOLLOWING REQUIREMENTS:

LUMINAIRES WITH ASYMMETRIC DISTRIBUTION SHALL BE HOLOPHANE HMLD3-PK2-3K-HVOLT-H-M (319 WATTS), GENERAL ELECTRIC "EVOLVE" ERHM-01-5-40-GI-7-30-N-I-4B-GRAY-R (320 WATTS), EATON-COOPER CELESTON CST-10-4-D-8-T3 (308 WATTS) OR EQUAL AS APPROVED BY THE ENGINEER.

PAYMENT WILL BE MADE AT THE UNIT PRICE BID UNDER CMS ITEM 625, "LUMINAIRE, LOW MAST, AS PER PLAN", WHICH SHALL BE FULL COMPENSATION FOR ALL LABOR, MATERIALS AND INCIDENTALS REQUIRED TO COMPLETE THIS ITEM IN A SATISFACTORY AND WORKMANLIKE MANNER.

REMOVAL OF JUNCTION BOXES WITH BARRIER REMOVED
WHEN SECTIONS OF BARRIER ARE REMOVED, REMOVAL OF MEDIAN BARRIER JUNCTION BOXES WITHIN THAT SECTION SHALL BE CONSIDERED INCIDENTAL TO AND INCLUDED WITH REMOVAL OF THE BARRIER.

ITEM 625 - LUMINAIRE, UNDERPASS, SOLID STATE (LED), AS PER PLAN "A": TYPE VARIES, 480 VOLT
IN ADDITION TO THE REQUIREMENTS OF ODOT'S CONSTRUCTION AND MATERIALS SPECIFICATIONS, LUMINAIRES FOR UNDERPASS LIGHTING SHALL BE AS FOLLOWS: LUMINAIRES SHALL BE GE EVOLVE EWS3-5-B7-DI-30-I-GRAY-F (35 WATTS), EATON /COOPER GALLEON GWC-AF-01-LED-EI-SL3-AP-7030 (59 WATTS), HOLOPHANE W4GLED-10C1000-30K-T3S-480-SPD (39 WATTS), OR EQUAL AS APPROVED BY THE ENGINEER.

IES DISTRIBUTION OF THE LUMINAIRE SHALL BE AS SPECIFIED. LUMINAIRES SHALL BE WALL-MOUNT, THE THRU-WIRING REQUIREMENT OF 725.11.F BEING WAIVED FOR THIS UNDERPASS APPLICATION; TOP-ENTRY SHALL BE THE WIRING METHOD USED, UNLESS SHOWN OTHERWISE IN THE PLAN DETAILS.

LUMINAIRE LED DRIVERS SHALL BE COMPATIBLE WITH 480VAC INPUT AS SHOWN IN THE PLANS, MODULAR, HAVE THE MANUFACTURER NAME AND PART NUMBER CLEARLY MARKED ON THE DRIVER ENCLOSURE, AND SHALL CARRY A MINIMUM 5-YEAR REPLACEMENT WARRANTY. EACH LUMINAIRE SHALL INCLUDE AN INTEGRAL LINE FUSE.

THE LED EMITTER ASSEMBLY SHALL CARRY A MINIMUM 5-YEAR REPLACEMENT WARRANTY, 10-YEAR STANDARD MANUFACTURER LIMITED WARRANTY. THE LUMINAIRE ENCLOSURE SHALL BE RATED IP65, MINIMUM, AS PER IEC 60529, AND SHALL CARRY A MINIMUM 5-YEAR REPLACEMENT WARRANTY WITH 10-YEAR STANDARD MANUFACTURER LIMITED WARRANTY.

A WRITTEN WARRANTY STATEMENT, SPARE PARTS LIST, AND MANUAL FROM THE LED SUPPLIER SHALL BE SUPPLIED TO THE ENGINEER BEFORE LUMINAIRES SHALL BE ACCEPTED BY ODOT.

SURGE PROTECTION SHALL BE 10KV/5KA MINIMUM, PER ANSI C62.41.2, AND THE MODULAR PACKAGE SHALL BE CLEARLY MARKED WITH THE MANUFACTURER AND PART NUMBER. COLOR TEMPERATURE SHALL BE 3000K +/- 400K UNLESS APPROVED OTHERWISE BY THE ENGINEER.

PAYMENT SHALL BE MADE AT THE UNIT BID PRICE, UNDER CMS ITEM 625, "LUMINAIRE, UNDERPASS, AS PER PLAN: LED, TYPE III", (WITH TYPE III DISTRIBUTION) FOR EACH LUMINAIRE WHICH SHALL BE FULL COMPENSATION FOR ALL LABOR, MATERIAL AND INCIDENTALS REQUIRED TO COMPLETE THIS ITEM IN A SATISFACTORY AND WORKMANLIKE MANNER.

ITEM 625 - LUMINAIRE, UNDERPASS, SOLID STATE (LED), AS PER PLAN "B": TYPE VARIES, 480 VOLT
IN ADDITION TO THE REQUIREMENTS LISTED IN ITEM 625, LUMINAIRE, UNDERPASS, AS PER PLAN "A", LUMINAIRES FOR THIS ITEM SHALL BE AS FOLLOWS: LUMINAIRES SHALL BE GE EVOLVE EWNB-H-C4-7-30-I-N-GRAY-FR (70 WATTS), EATON/ COOPER GALLEON GWC-AF-01-LED-EI-TF4T-AP-7030 (59 WATTS) OR EQUAL AS APPROVED BY THE ENGINEER.

ITEM 625 - LUMINAIRE, CONVENTIONAL, SOLID STATE (LED), AS PER PLAN: TYPE III, 480 VOLT
THE LUMINAIRE SHALL BE 3000K CCT, 400 WATTS (EQUIVALENT). THE LUMINAIRE ARRAYS AND ASSOCIATED ILLUMINATION TEST AREAS SPECIFIED IN CMS 725.11 ARE HEREBY WAIVED. INSTEAD, THE LUMINAIRES FOR CONVENTIONAL LIGHTING SHALL MEET THE FOLLOWING REQUIREMENTS:

LUMINAIRES FOR CONVENTIONAL LIGHTING UNITS SHALL BE LEOTEK EC9-30M2-HV-WW-2-GY-700 (262 WATTS), GENERAL ELECTRIC "EVOLVE" ERL2-5-30-B3-30-X-GRAY (278 WATTS), EATON-COOPER NAVION NAV-AF-04-D-480-T2-10K-7030 (171 WATTS) OR EQUAL AS APPROVED BY THE ENGINEER.

PAYMENT WILL BE MADE AT THE UNIT PRICE BID UNDER CMS ITEM 625, "LUMINAIRE, CONVENTIONAL, AS PER PLAN", WHICH SHALL BE FULL COMPENSATION FOR ALL LABOR, MATERIALS AND INCIDENTALS REQUIRED TO COMPLETE THIS ITEM IN A SATISFACTORY AND WORKMANLIKE MANNER.

ITEM 625 - LIGHTING, MISC.: REMOVE UNDERPASS LIGHTING
THIS ITEM SHALL CONSIST OF THE REMOVAL OF AN EXISTING UNDERPASS LIGHTING SYSTEM. THE WORK SHALL INCLUDE REMOVAL OF THE DISCONNECT SWITCH, CONDUITS, FITTINGS, WIRING, FIXTURES AND ALL RELATED APPURTENANCES.

PAYMENT SHALL BE MADE AT THE UNIT BID PRICE, UNDER CMS ITEM 625, "LIGHTING, MISC.: REMOVE UNDERPASS LIGHTING" FOR EACH UNDERPASS WITH LIGHTING REMOVED, WHICH SHALL BE FULL COMPENSATION FOR ALL LABOR, MATERIAL AND INCIDENTALS REQUIRED TO COMPLETE THIS ITEM IN A SATISFACTORY AND WORKMANLIKE MANNER.

PADLOCKS AND KEYS
PADLOCKS FURNISHED FOR ODOT CONTROL CENTERS SHALL BE EITHER BRASS OR BRONZE, EQUAL TO MASTER NO. 4BKA OR WILSON BOHANNAN 660A, AND SHALL BE KEYED IN ACCORDANCE WITH CMS 631.06. PAYMENT SHALL BE INCLUDED IN THE BID FOR THE ITEMS BEING LOCKED.

EXISTING CABLE AND CONDUIT
THE LOCATION OF EXISTING CIRCUIT CABLE, AS SHOWN IN THIS PLAN, WERE APPROXIMATED FROM EXISTING DESIGN PLANS. PRIOR TO INITIATING ANY NEW TRENCHING, THE CONTRACTOR SHALL FIELD LOCATE ALL EXISTING CIRCUITS, AND VERIFY THE ASSUMED CIRCUIT INFORMATION.

IT IS ALSO ASSUMED THAT PROPOSED FOUNDATION LOCATIONS AND PROPOSED TRENCH LOCATIONS MAY IMPACT EXISTING CIRCUITS. IF CONSTRUCTION PROCEDURES WILL IMPACT ENERGIZATION OF AN EXISTING LIGHTING UNIT FOR MORE THAN TWENTY-FOUR HOURS, THEN TEMPORARY CIRCUITS SHALL BE PROVIDED, PER "ITEM 625 SPECIAL, MAINTAIN EXISTING LIGHTING". THE CONTRACTOR SHALL NOT ADJUST PROPOSED FOUNDATION OR TRENCH LOCATIONS, WITHOUT APPROVAL IN WRITING FROM THE ENGINEER.

EXISTING CIRCUITS WHICH HAVE BEEN ABANDONED, AS INDICATED IN THE PLAN (OR AS A RESULT OF THE FIELD REVIEW/CONFIRMATION), MAY BE ABANDONED IN PLACE OR REMOVED. REMOVED CIRCUIT CABLE SHALL BE DISPOSED OF BY THE CONTRACTOR. THE REMOVAL OR ABANDONMENT OF THESE CIRCUITS SHALL BE CONSIDERED INCIDENTAL TO THE VARIOUS LIGHTING BID ITEMS.

REMOVAL OF CIRCUITS IN EXISTING UNDERGROUND OR BARRIER CONDUITS TO BE REUSED: WORK IS INCLUDED UNDER ITEM 625, "CONDUIT CLEANED AND CABLES REMOVED".

ITEM 625 ARC FLASH CALCULATIONS AND LABEL
THE CONTRACTOR SHALL SATISFY THE REQUIREMENTS OF ODOT SUPPLEMENTAL SPECIFICATION 825 FOR THE CONTROL CENTERS. THE CONTRACTOR MAY BE ABLE TO OBTAIN LABELS FOR THE ODOT MAINTAINED INSTALLATIONS FROM THE ODOT SIGN SHOP, 1606 WEST BROAD ST., COLUMBUS, OH 43223, FOR NON-ODOT MAINTAINED INSTALLATIONS THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING THE LABEL MADE FROM "ENGINEER GRADE" SIGN SHEETING OR AN EQUIVALENT LABEL MATERIAL.

THE ODOT OFFICE OF ROADWAY ENGINEERING HAS AN EXCEL SPREADSHEET AVAILABLE UPON REQUEST, TO ASSIST WITH MAKING AND DOCUMENTING THE REQUIRED CALCULATIONS. METHOD OF MEASUREMENT SHALL BE AS PER 825.06. THE FOLLOWING QUANTITIES HAVE BEEN CARRIED TO THE SUMMARY.

ITEM 625 ARC FLASH CALCULATION AND LABEL: (CC-A AND CC-B) 2 EACH

REMOVAL OF LUMINAIRES WITH LIGHT POLES OR LIGHT TOWERS
REMOVAL OF THE LUMINAIRE SHALL BE CONSIDERED INCIDENTAL TO AND INCLUDED WITH REMOVAL OF LIGHT POLES (OR LIGHT TOWERS) WHICH ARE REMOVED.

ISSUE RECORD:		
NO.	DATE	DESCRIPTION

2026-09-10 - BU-37A - RECORD DRAWING PLANS

CALCULATED	MJH	CHECKED	KAE	CALCULATED	EMS	CHECKED	SMM
LIGHTING GENERAL NOTES				LIGHTING GENERAL NOTES			
SUM-76 / 77 / 8 10.99 / 11.54 / 0.00				SUM-76 / 77 / 8 - 8.24 / 9.74 / 0.00			
643 1022				3 39			

SHEET NUMBER FROM LIGHTING PLAN											PARTICIPATION			ITEM	ITEM EXT.	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
		643	646	647	648	649	650	651	668	675	09/IMS/PV	10/NHS/PV	11/IMS/BR						
			40	12	18						70			625	00470	70	EACH	OPTION A - LIGHTING	
			12	33	15	24					84			625	00480	84	EACH	CONNECTION, UNFUSED BOLTED	
			5		9						14			625	10494	14	EACH	CONNECTION, UNFUSED PERMANENT	
			9								9			625	10502	9	EACH	LIGHT POLE, LOW MAST: DESIGN ALM50	
				4	4	6					14			625	13200	14	EACH	LIGHT POLE (INSTALLATION ONLY)	644
																		LIGHT TOWER, BBBB100	
			5		9						14			625	14306	14	EACH	MEDIAN LIGHT POLE FOUNDATION, 10' DEEP	
			9								9			625	14600	9	EACH	LIGHT POLE FOUNDATION, MISC.: 10' DEEP, INSTALL WITH SOME MATERIAL SUPPLIED	644
				4	4	5					13			625	15200	13	EACH	LIGHT TOWER FOUNDATION, 36" X 25' DEEP	
						1					1			625	15700	1	EACH	LIGHT TOWER FOUNDATION, MISC.: MEDIAN FOUNDATION PER HL-20.24, 25' DEEP	644
			7635	4434	9150	3477					24,696			625	23200	24,696	FT	NO. 4 AWG 2400 VOLT DISTRIBUTION CABLE	
						921					921			625	23300	921	FT	NO. 2 AWG 2400 VOLT DISTRIBUTION CABLE	
			4410								4,410			625	23308	4,410	FT	DISTRIBUTION CABLE, MISC.: NO.4 AWG 2400, INSTALLATION ONLY	644
			3210	900	1350					5595	11,055			625	23400	11,055	FT	NO. 10 AWG POLE AND BRACKET CABLE	
			680	2446	354	1426					4,906			625	24320	4,906	FT	1½" DUCT CABLE WITH THREE NO. 4 AWG 2400 VOLT CABLES	
						303					303			625	24330	303	FT	1½" DUCT CABLE WITH THREE NO. 2 AWG 2400 VOLT CABLES	
											1525	1525		625	25100	1525	FT	CONDUIT, 1", 725.04	
											60	60		625	25104	60	FT	CONDUIT, 1", 725.051	
				84	138	9					231			625	25400	231	FT	CONDUIT, 2", 725.04	
			15	135	48	182					380			625	25500	380	FT	CONDUIT, 3", 725.04	
			73	226	294	123					716			625	25900	716	FT	CONDUIT, JACKED OR DRILLED: 3", 725.04	
			1352	878							2,230			625	25910	2,230	FT	CONDUIT CLEANED AND CABLES REMOVED	644
			10								10			625	26252	10	EACH	LUMINAIRE, CONVENTIONAL, SOLID STATE (LED): TYPE III, 480 VOLT	643
				4	4	4					12			625	26263	12	EACH	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN: TYPE III, 480 VOLT	643
				12	12	20					44			625	26263	44	EACH	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN: TYPE V, 480 VOLT	643
			14	6	9						29			625	26273	29	EACH	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN: TYPE V, 480 VOLT	643
				3		4					7			625	27503	7	EACH	LUMINAIRE, UNDERPASS, SOLID STATE (LED), AS PER PLAN "A": TYPE VARIES, 480 VOLT	643
				1							1			625	27503	1	EACH	LUMINAIRE, UNDERPASS, SOLID STATE (LED), AS PER PLAN "B": TYPE VARIES, 480 VOLT	643
										70	70			625	27551	70	FT	LUMINAIRE, DECORTIVE, AS PER PLAN: "BRI", LINEAR LED	674
										4	4			625	27551	4	FT	LUMINAIRE, DECORTIVE, AS PER PLAN: "BR2", INGROUND LED	674
			660	1955	1522	1856					5,993			625	29002	5,993	FT	TRENCH, 24" DEEP	
				2		2					4			625	29900	4	EACH	JUNCTION BOX	
										31	31			625	29901	31	EACH	JUNCTION BOX, AS PER PLAN	674
			1	6	8	5					20			625	30700	20	EACH	PULL BOX, 725.08, 18"	
			1	1	1						3			625	30706	3	EACH	PULL BOX, 725.08, 24"	
							18	19			37			625	31510	37	EACH	PULL BOX REMOVED	
			14	8	17	12					51			625	32000	51	EACH	GROUND ROD	
						5					5			625	33000	5	EACH	STRUCTURE GROUNDING SYSTEM	
			1		1						2			625	34001	2	EACH	POWER SERVICE, AS PER PLAN	643
										1	1			625	34001	1	FT	POWER SERVICE, AS PER PLAN "B"	674
			660	1955	1522	1856					5,993			625	36010	5,993	FT	UNDERGROUND WARNING/MARKING TAPE	
				2		1					3			625	37101	3	EACH	SERVICE TO UNDERPASS LIGHTING, AS PER PLAN	644
			2	4							6			625	39520	6	EACH	PULL BOX CLEANED	
											LS			SPECIAL	40000	LS		MAINTAIN EXISTING LIGHTING	644
							10	8			18			625	75350	18	EACH	LIGHT TOWER REMOVED	
							9	6			15			625	75400	15	EACH	LIGHT POLE REMOVED	
							9	6			15			625	75500	15	EACH	LIGHT POLE FOUNDATION REMOVED	
							2	14			16			625	75506	16	EACH	LUMINAIRE REMOVED	
							1	1			2			625	75510	2	EACH	POWER SERVICE REMOVED	
							10	8			18			625	75540	18	EACH	LIGHT TOWER FOUNDATION REMOVED	
			1								1			625	75800	1	EACH	DISCONNECT CIRCUIT	
		2									2			625	76000	2	EACH	ARC FLASH CALCULATIONS AND LABEL: (CC-A AND CC-B)	643
									1		1			625	98000	1	EACH	LIGHTING, MISC.: REPAIR UNDERPASS LIGHTING	644
							2	1			3			625	98000	3	EACH	LIGHTING, MISC.: REMOVE UNDERPASS LIGHTING	643

ISSUE RECORD:		
NO.	DATE	DESCRIPTION

REFERENCE NUMBER	SHEET NO.	SIDE	ROADWAY	STATION TO STATION	625																										CALCULATED	MJD CHECKED	KAE	
					CONNECTION, UNFUSED BOLTED	CONNECTION, UNFUSED PERMANENT	LIGHT TOWER, BBBB100	LIGHT TOWER FOUNDATION, 36" X 25' DEEP	NO. 4 AWG 2400 VOLT DISTRIBUTION CABLE	NO. 10 AWG POLE AND BRACKET CABLE	1½" DUCT CABLE WITH THREE NO. 4 AWG 2400 VOLT CABLES	CONDUIT, 2", 725.04	CONDUIT, 3", 725.04	CONDUIT, JACKED OR DRILLED: 3"	CONDUIT CLEANED AND CABLES REMOVED	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN: TYPE III	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN: TYPE V	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN: SYM., 480 VOLT	LUMINAIRE, UNDERPASS, SOLID STATE (LED), AS PER PLAN "A": TYPE VARIES, 480 VOLT	LUMINAIRE, UNDERPASS, SOLID STATE (LED), AS PER PLAN "B": TYPE VARIES, 480 VOLT	TRENCH, 24" DEEP	JUNCTION BOX	PULL BOX, 725.08, 18"	PULL BOX, 725.08, 24"	GROUND ROD	PLASTIC CAUTION TAPE	SERVICE TO UNDERPASS LIGHTING	PULL BOX CLEANED						
CIRCUIT "A2"					EACH	EACH	EACH	EACH	FT	FT	FT	FT	FT	FT	FT	EACH	EACH	EACH	EACH	EACH	FT	EACH	EACH	EACH	EACH	FT	EACH	FT						
L31	656	LT	LANE S	6344+18			1	1									4						2											
L31 TO L32		LT	LANE S	6344+18 TO 6344+34							36									26				2		26								
L32		LT	LANE S	6344+34		3														1						151								
L32 TO L33		LT	LANE S	6344+34 TO 6345+95							161									151						151								
L33		LT	LANE S	6345+95		3																						1						
L33 TO L34		L&R	LANE S	6345+95 TO 6346+04					171						47														1					
L34		RT	LANE S	6346+04		3													2								1	1						
L32 TO L35		L&R	LANE S	6344+34 TO 6344+34					156					42																				
L35	↓	RT	LANE S	6344+34		3														1														
L35 TO L36	656-662	RT	S-O	6344+34 TO 8314+48							395									385						385								
L36	662	RT	LANE O	8314+48			1	1									4						2			385								
L36 TO L37	662-657	R&L	O-T	8314+48 TO 7318+89							492									482						482								
L37	657	LT	RAMP T	7318+89		3																1												
L37 TO L38		L&R	RAMP T	7318+89 TO 7318+89					123						31																			
L38		RT	RAMP T	7318+89																		1												
L38 TO L39		RT	RAMP T	7318+89 TO 7320+08					378				121													121								
L39		RT	RAMP T	7320+08																			1											
L39 TO L11	↓	RT	RAMP T	7320+08 TO 7320+22					72				14								14					14								
L40	657	LT	EB I-76	547+69			1	1								4							2			476								
L40 TO L41		LT	EB I-76	547+69 TO 542+86							486									476						476								
L41		LT	EB I-76	542+86		3																1												
L41 TO L42		L&R	EB I-76	542+86 TO 542+86					222					64																				
L42		RT	EB I-76	542+86		3																1												
L43		RT	EB I-76	542+86 TO 542+93					51			7									7					7								
L44		RT	EB I-76	542+93			1	1									4						2											
L42 TO L37		R&L	76/T	542+93 TO 7318+89					297					89																				
L37 TO L11	↓	RT	RAMP T	7318+89 TO 7320+22							573																							
CIRCUIT "A3"																																		
L45	664	Ⓢ	SR 8	4336+62	✗					✗								✗																
L45 TO L46		Ⓢ	SR 8	4336+62 TO 4335+08					✗		✗				✗				✗															
L46		Ⓢ	SR 8	4335+08	✗					✗									✗															
L46 TO L47		Ⓢ	SR 8	4335+08 TO 4333+58					✗		✗				✗				✗															
L47		Ⓢ	SR 8	4333+58	✗					✗									✗															
L47 TO L48		Ⓢ	SR 8	4333+58 TO 4332+48					✗						✗																			
L48		Ⓢ	SR 8	4332+48		✗																							1					
L48 TO L49		Ⓢ	SR 8	4332+48 TO 4332+00					✗						✗																			
L49	↓	Ⓢ	SR 8	4332+00	✗					✗								✗																
L49 TO L50	664-663	Ⓢ	SR 8	4332+00 TO 4330+46					✗		✗				✗				✗															
L50	663	Ⓢ	SR 8	4330+46	✗					✗									✗															
L50 TO L51	663	Ⓢ	SR 8	4330+46 TO 4329+00					✗		✗				✗																			
L51	663	Ⓢ	SR 8	4329+00	✗					✗								✗																
L48 TO L52	664	Ⓢ/RT	SR 8	4332+48 TO 4332+48					240						70																			
L52	664	RT	SR 8	4332+48		3																							1					
L52 TO L53	664-663	RT	SR8-O	4332+48 TO 2545+18							303									293						293								
L53	663	RT	RAMP O	2545+18		3															1													
L53 TO L54	663	RT	RAMP O	2545+18 TO 2544+41					261			77																1						
L54	663	RT	RAMP O	2544+41		3													1	1		1					1							
TOTALS TO LIGHTING GENERAL SUMMARY					12	30	4	4	4434	900	2446	84	135	226	878	4	12	6	3	1	1955	2	6	1	8	1955	2	4						
																								SUM-76/77/8 10.99/11.54/0.00										647 1022

[illegible]

REFERENCE NUMBER	SHEET NO.	SIDE	ROADWAY	STATION	625										NOTES
						PULL BOX REMOVED	LIGHT TOWER REMOVED	LIGHT POLE REMOVED	LIGHT POLE FOUNDATION REMOVED	LUMINAIRE REMOVED	POWER SERVICE REMOVED	LIGHT TOWER FOUNDATION REMOVED	LIGHTING, MISC.: REMOVAL OF UNDERPASS LIGHTING		
						EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH		
R7-1	659	BARRIER	I-76	565+51						2					EXISTING POLE FTH 5-3
R7-2		BARRIER	I-76	568+52						2					EXISTING POLE FTH 5-4
R7-3		BARRIER	I-76	571+54						2					EXISTING POLE FTH 5-5
R7-4	↓	BARRIER	I-76	574+53						2					EXISTING POLE FTH 5-6
R8-1	660	BARRIER	I-77	4293+13				1	1						EXISTING POLE 2LAF-5
R8-2		BARRIER	I-77	4295+95				1	1						EXISTING POLE 2LAF-4
R8-3		LT	I-77	4296+68				1	1						EXISTING POLE 2LAF-6
R8-4		LT	I-77	4296+81		1									
R8-5	↓	LT	I-77	4297+18		1									
R9-1	661	LT	I-77	4298+25		1									
R9-2		LT	I-77	4304+09		1									
R9-3		LT	I-77	4305+20		1									
R9-4		LT	I-77	4307+35		1									
R9-5		LT	I-77	4307+28							1				CONTROL CENTER LAF
R9-6		LT	I-77	4308+77		1									
R9-7		RT	BURKHARDT	316+90			1					1			EXISTING TOWER 2LAF-8
R9-8		BARRIER	I-77	4298+85				1	1						EXISTING POLE 2LAF-3
R9-9		BARRIER	I-77	4301+86				1	1						EXISTING POLE 2LAF-2
R9-10	↓	BARRIER	I-77	4304+86				1	1						EXISTING POLE 2LAF-1
R10-1	662	LT	I-77	4310+97		1									
R10-2		LT	I-77	4311+37		1									
R10-3		LT	I-77	4312+15		1									
R10-4		LT	I-77	4314+57		1									
R10-5		LT	I-77	4314+58			1					1			EXISTING TOWER 1LAF-2
R10-6		LT	RAMP N	3333+00			1					1			EXISTING TOWER 1LAF-1
R10-7		RT	LANE O	8309+39			1					1			EXISTING TOWER 2LAF-17
R10-8	↓	RT	LANE O	8314+72			1					1			EXISTING TOWER FTH-3-2
R11-1	663	LT	I-77	4322+95			1					1			EXISTING TOWER 1LAF-9
R11-2		LT	I-77	4322+95		1									
R11-3		LT	I-77	4326+70		1									
R11-4		LT	I-77	VARIES									1		
R11-5		LT	I-77	4327+13		1									
R11-6		LT	I-77	4328+74		1									
R11-7		LT	I-77	4329+00		1									
R11-8		RT	RAMP O	2539+40			1					1			EXISTING TOWER FTH-3-8
R11-9		LT	RAMP O	2542+35			1					1			EXISTING TOWER FTH-3-9
R11-10		LT	RAMP O	2543+35		1									
R11-11		RT	RAMP O	2543+65		1									
R11-12		RT	RAMP O	2543+70		1									
R11-13		BARRIER	SR 8	4329+00						1					EXISTING POLE LAF-1-12
R11-14	↓	BARRIER	SR 8	4330+47						1					EXISTING POLE LAF-1-13
R12-1	664	BARRIER	SR 8	4332+00						1					EXISTING POLE LAF-1-14
R12-2		BARRIER	SR 8	4333+58						1					EXISTING POLE LAF-1-15
R12-2		BARRIER	SR 8	4335+08						1					EXISTING POLE LAF-1-16
R12-3	↓	BARRIER	SR 8	4336+63						1					EXISTING POLE LAF-1-17
TOTALS TO LIGHTING GENERAL SUMMARY						19	8	6	6	14	1	8	1		

LIGHTING SUBSUMMARY

SUM-76 / 77 / 8
10.99 / 11.54 / 0.00

651
1022

2026-09-10 - BU-37A - RECORD DRAWING PLANS

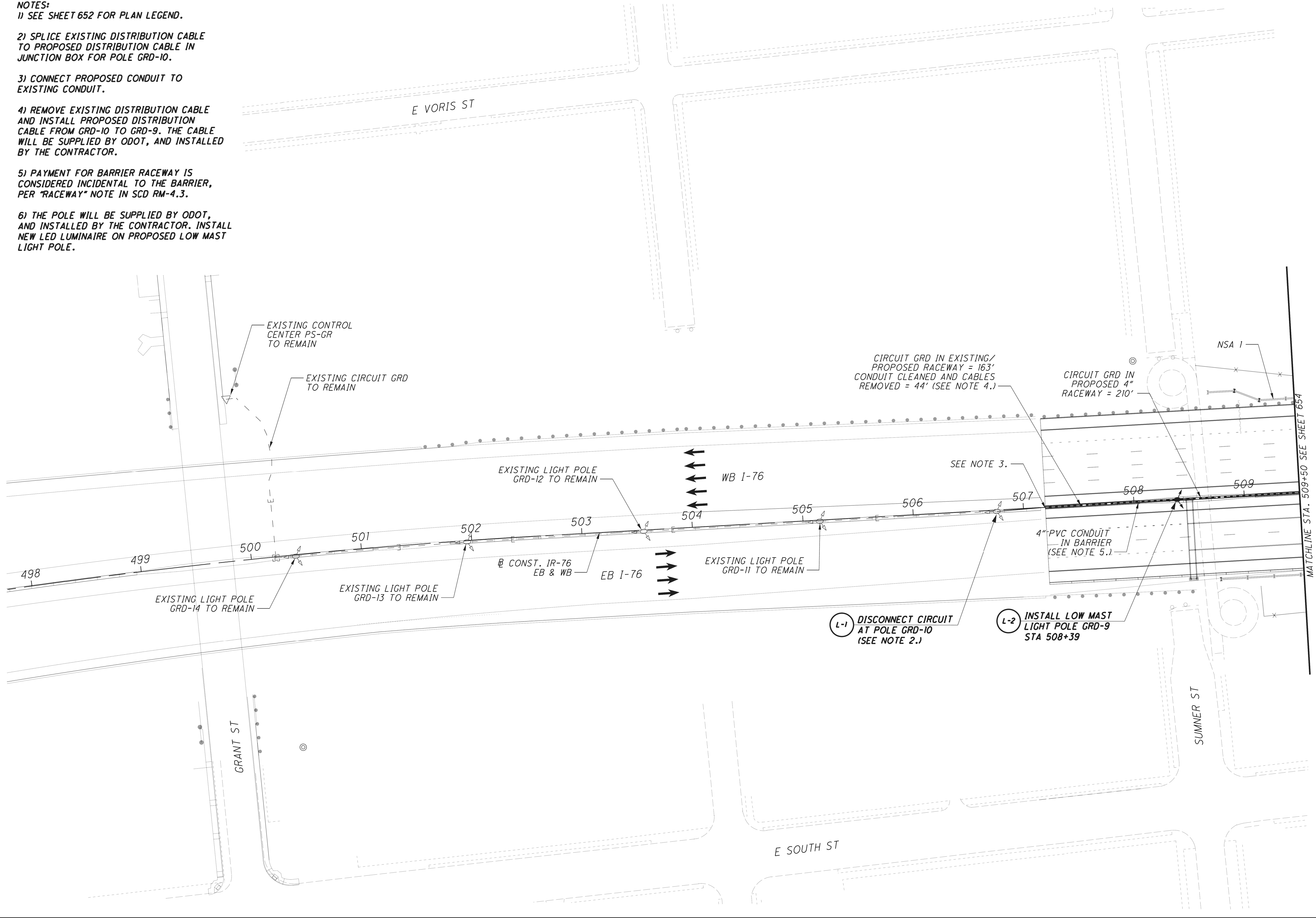
LIGHTING SUBSUMMARY

SUM-76 / 77 / 8 -
8.24 / 9.74 / 0.00

12
39

ISSUE RECORD:		
NO.	DATE	DESCRIPTION

- NOTES:
- 1) SEE SHEET 652 FOR PLAN LEGEND.
- 2) SPLICE EXISTING DISTRIBUTION CABLE TO PROPOSED DISTRIBUTION CABLE IN JUNCTION BOX FOR POLE GRD-10.
- 3) CONNECT PROPOSED CONDUIT TO EXISTING CONDUIT.
- 4) REMOVE EXISTING DISTRIBUTION CABLE AND INSTALL PROPOSED DISTRIBUTION CABLE FROM GRD-10 TO GRD-9. THE CABLE WILL BE SUPPLIED BY ODOT, AND INSTALLED BY THE CONTRACTOR.
- 5) PAYMENT FOR BARRIER RACEWAY IS CONSIDERED INCIDENTAL TO THE BARRIER, PER "RACEWAY" NOTE IN SCD RM-4.3.
- 6) THE POLE WILL BE SUPPLIED BY ODOT, AND INSTALLED BY THE CONTRACTOR. INSTALL NEW LED LUMINAIRE ON PROPOSED LOW MAST LIGHT POLE.



LIGHTING PLAN - IR-76
BEGIN PROJECT TO STA. 509+50

SUM-76 / 77 / 8
10.99 / 11.54 / 0.00

653
1022

2026-09-10 - BU-37A - RECORD DRAWING PLANS

SUM-76 / 77 / 8-
8.24 / 9.74 / 0.00

LIGHTING PLAN - IR-76

CALCULATED
EMS
CHECKED
SMM

CALCULATED
MJH
CHECKED
KAE

0

20

40

80

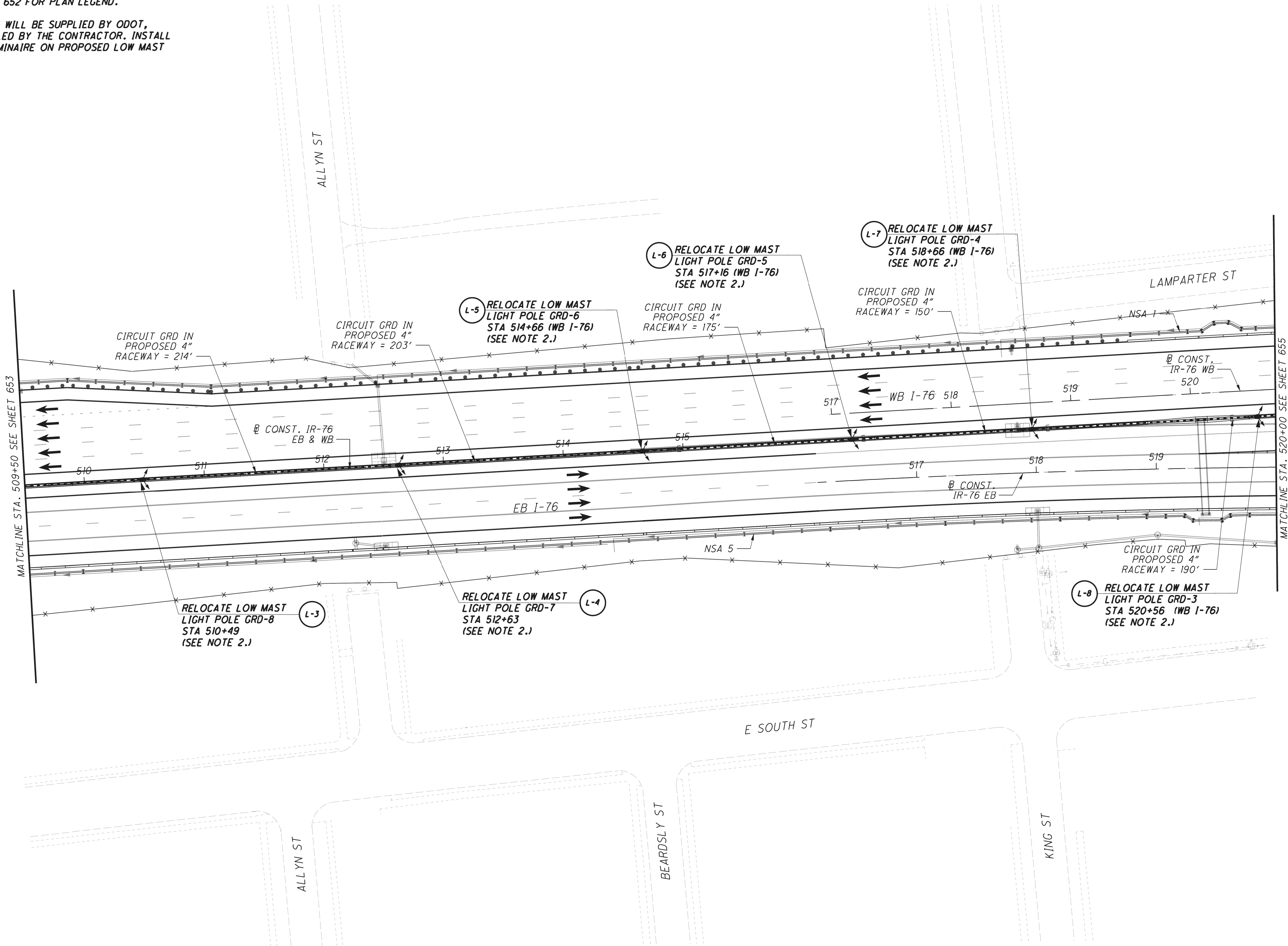
HORIZONTAL
SCALE IN FEET

ISSUE RECORD:		
NO.	DATE	DESCRIPTION

14
39

NOTES:
1) SEE SHEET 652 FOR PLAN LEGEND.

2) THE POLE WILL BE SUPPLIED BY ODOT,
AND INSTALLED BY THE CONTRACTOR. INSTALL
NEW LED LUMINAIRE ON PROPOSED LOW MAST
LIGHT POLE.



CALCULATED
MUH

CHECKED
KAE

0 20 40 80

HORIZONTAL
SCALE IN FEET

↑

N

LIGHTING PLAN - IR-76

STA. 509+50 (C/L) TO STA. 520+00 (EB)

SUM-76 / 77 / 8
10.99 / 11.54 / 0.00

654
1022

2026-09-10 - BU-37A - RECORD DRAWING PLANS

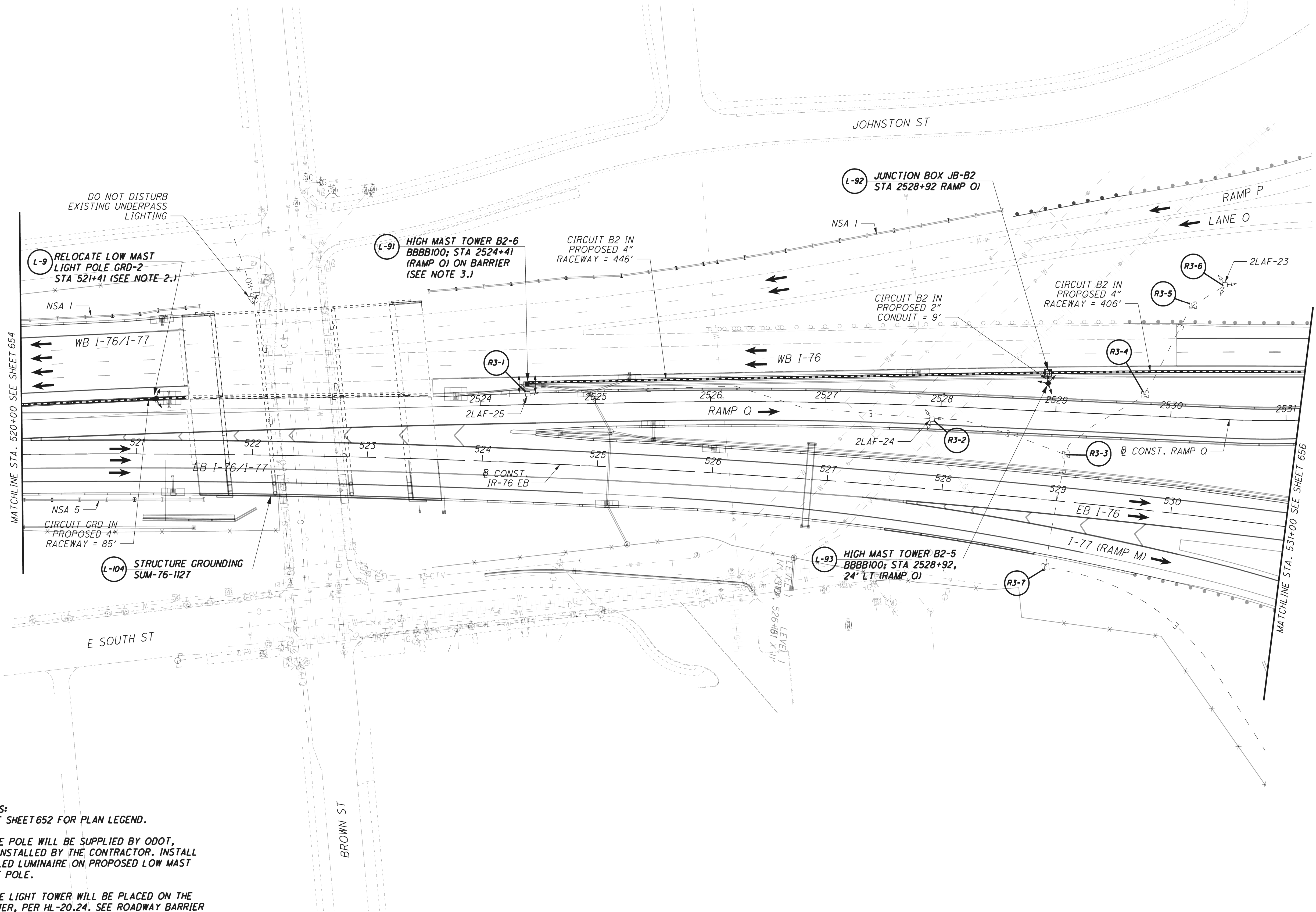
CALCULATED	EMS
	CHECKED
SMM	SMM

LIGHTING PLAN - IR-76

SUM-76 / 77 / 8-
8.24 / 9.74 / 0.00

15
39

NOTES:
1) SEE SHEET 652 FOR PLAN LEGEND.
2) THE POLE WILL BE SUPPLIED BY ODOT, AND INSTALLED BY THE CONTRACTOR. INSTALL NEW LED LUMINAIRE ON PROPOSED LOW MAST LIGHT POLE.
3) THE LIGHT TOWER WILL BE PLACED ON THE BARRIER, PER HL-20.24. SEE ROADWAY BARRIER DETAILS FOR ADDITIONAL INFORMATION.



LIGHTING PLAN - IR-76
STA. 520+00 TO STA. 531+00

SUM-76 / 77 / 8
10.99 / 11.54 / 0.00

655
1022

2026-09-10 - BU-37A - RECORD DRAWING PLANS

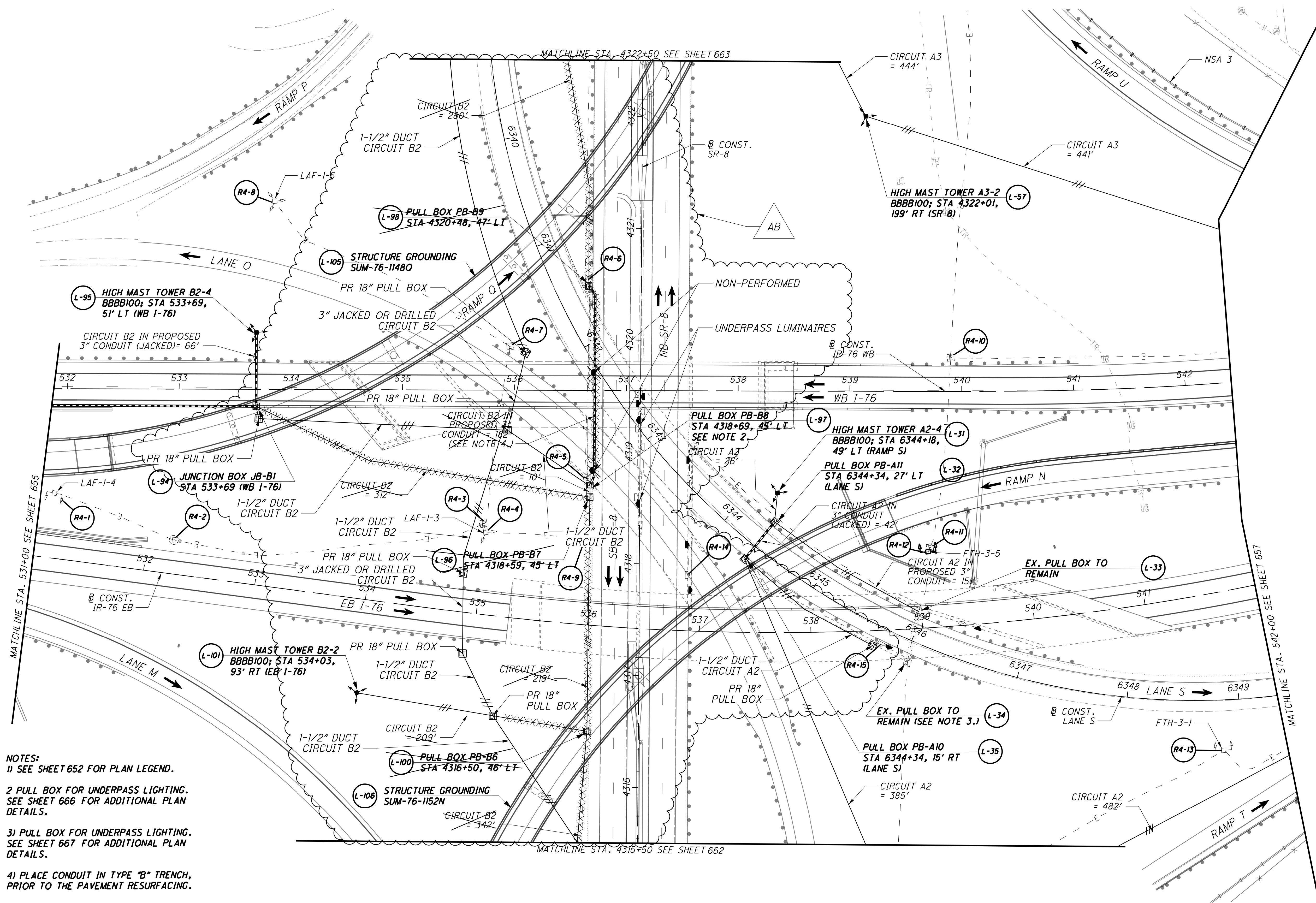
SUM-76 / 77 / 8 -
8.24 / 9.74 / 0.00

LIGHTING PLAN - IR-76



CALCULATED
EMS
CHECKED
SMM

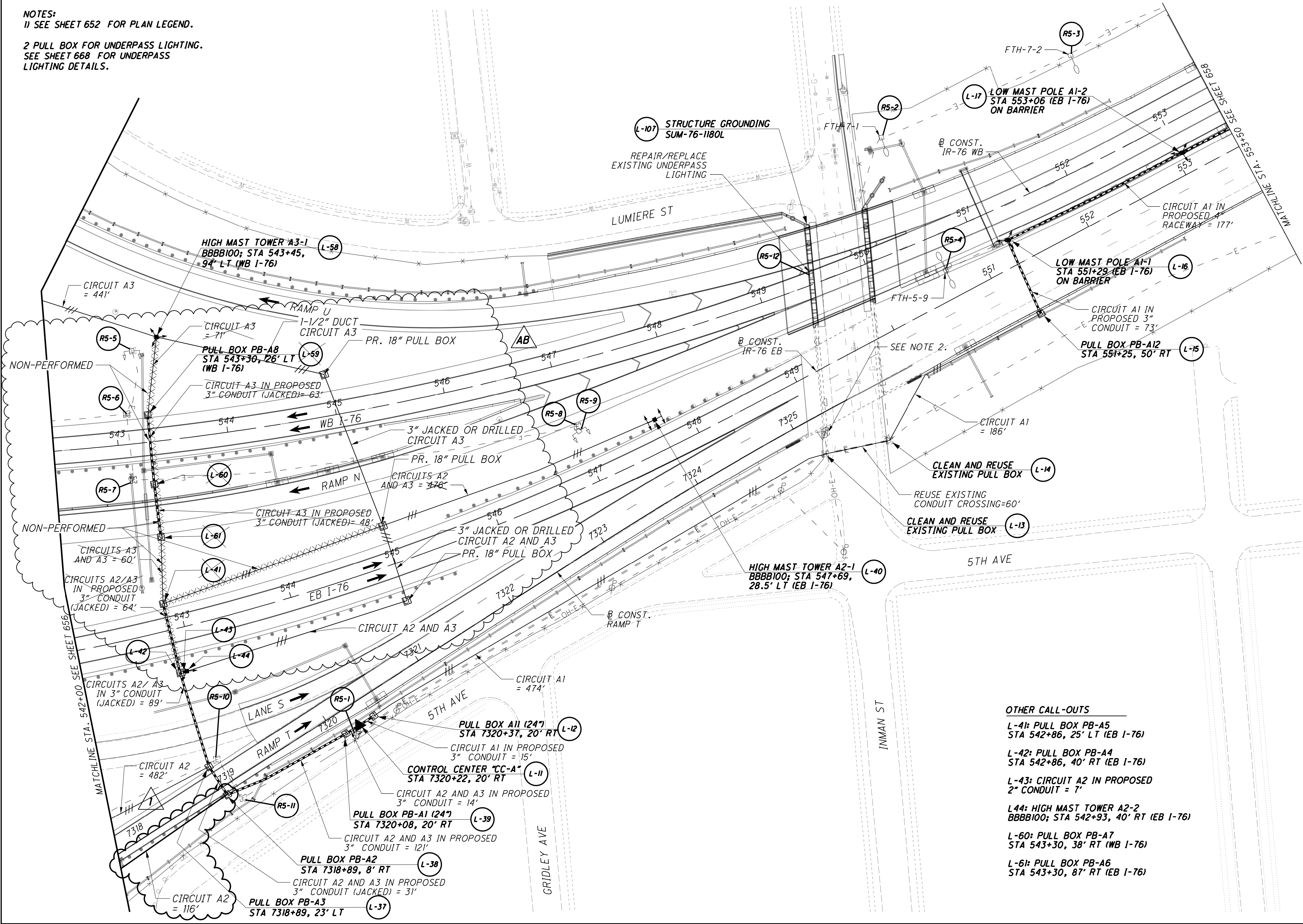
ISSUE RECORD:		
NO.	DATE	DESCRIPTION



ISSUE RECORD:		
NO.	DATE	DESCRIPTION
AB	5/21/24	SB SR8 CONDUIT REROUTE
AB	10/23/24	UNDERPASS LUMINAIRE MOVED

NOTES:
1) SEE SHEET 652 FOR PLAN LEGEND.

2 PULL BOX FOR UNDERPASS LIGHTING.
SEE SHEET 668 FOR UNDERPASS
LIGHTING DETAILS.



- OTHER CALL-OUTS
- L-41: PULL BOX PB-A5
STA 542+86, 25' LT (EB I-76)
 - L-42: PULL BOX PB-A4
STA 542+86, 40' RT (EB I-76)
 - L-43: CIRCUIT A2 IN PROPOSED
2" CONDUIT = 7'
 - L-44: HIGH MAST TOWER A2-2
BBBB100; STA 542+93, 40' RT (EB I-76)
 - L-60: PULL BOX PB-A7
STA 543+30, 38' RT (WB I-76)
 - L-61: PULL BOX PB-A6
STA 543+30, 87' RT (EB I-76)

ISSUE RECORD:		
NO.	DATE	DESCRIPTION
1	2/14/25	ADDITIONAL LIGHTING INFORMATION
AB	3/2/26	CONDUIT REROUTE

LIGHTING PLAN - IR-76
STA. 542+00 TO STA. 553+50

SUM-76 / 77 / 8
10.99 / 11.54 / 0.00

657
1022

2026-09-10 - BU-37A - RECORD DRAWING PLANS

SUM-76 / 77 / 8 -
8.24 / 9.74 / 0.00

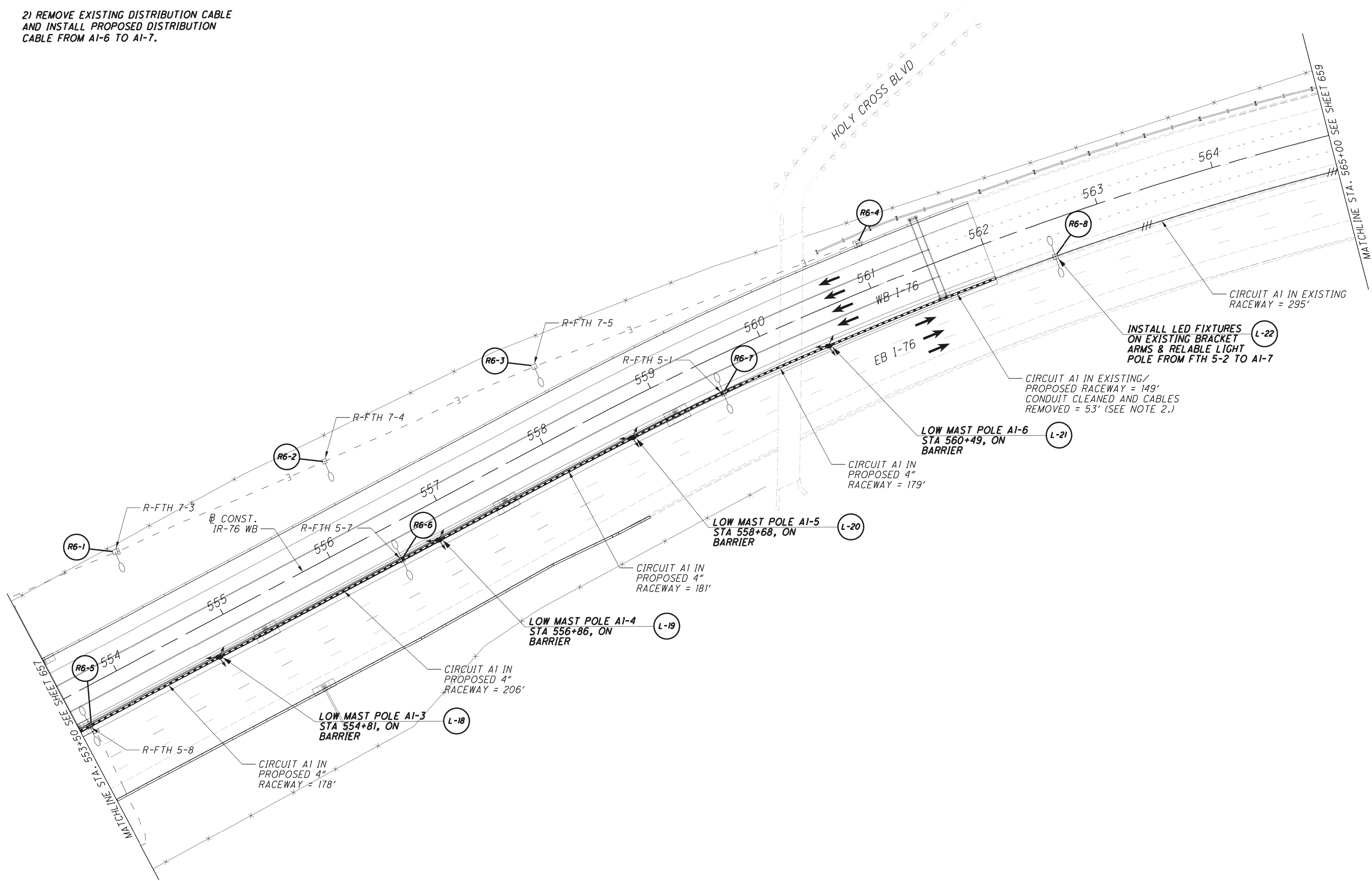
LIGHTING PLAN - IR-76

CALCULATED
EMS
CHECKED
SMM

18
39

NOTES:
1) SEE SHEET 652 FOR PLAN LEGEND.

2) REMOVE EXISTING DISTRIBUTION CABLE
AND INSTALL PROPOSED DISTRIBUTION
CABLE FROM AI-6 TO AI-7.



CALCULATED
MJH

CHECKED
KAE

0 20 40 80

HORIZONTAL
SCALE IN FEET

N

LIGHTING PLAN - IR-76
STA. 553+50 TO STA. 565+00

SUM-76 / 77 / 8
10.99 / 11.54 / 0.00

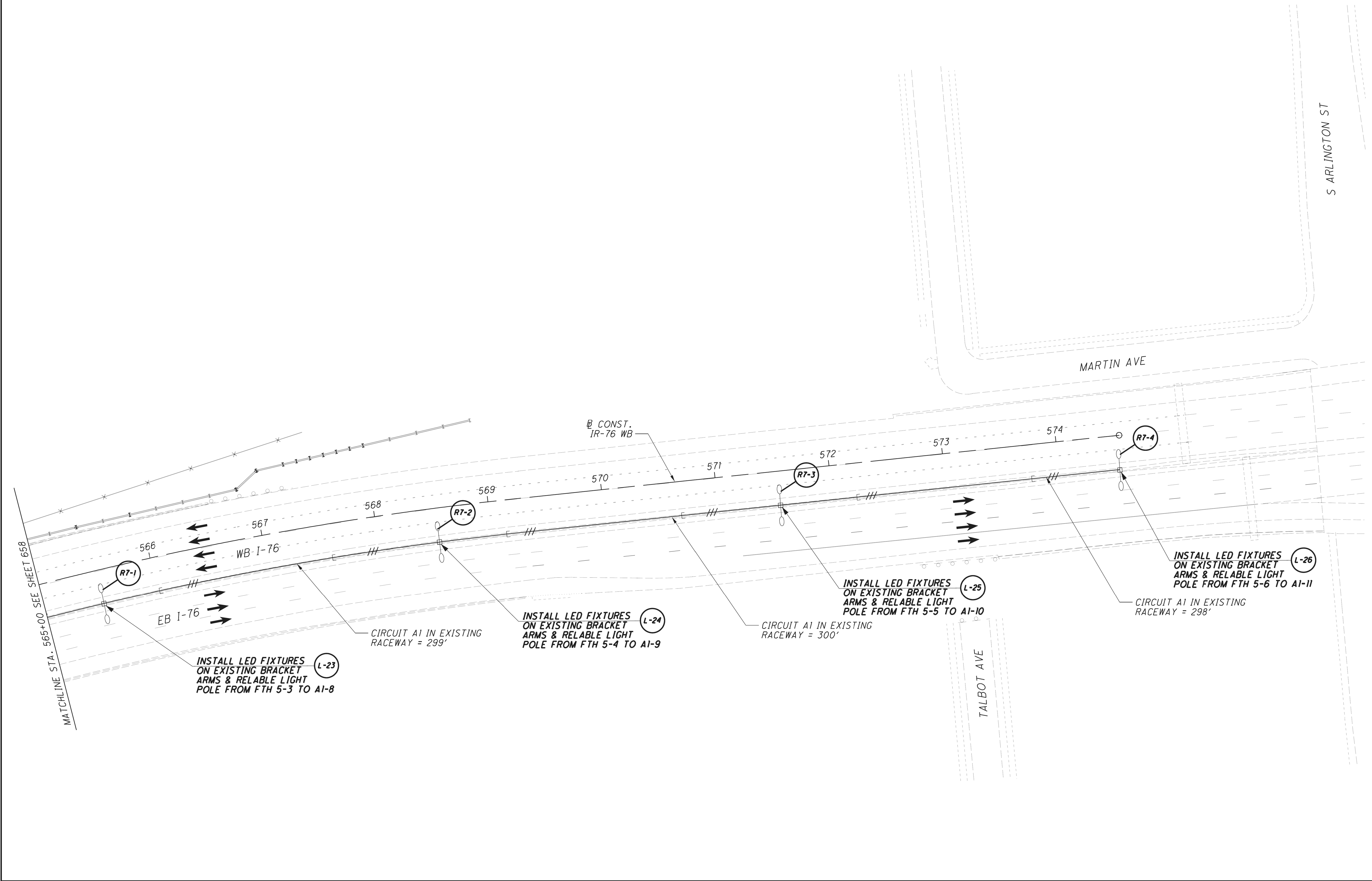
658
1022

2026-09-10 - BU-37A - RECORD DRAWING PLANS

19 39	SUM-76 / 77 / 8 - 8.24 / 9.74 / 0.00	CALCULATED	
		EMS	LIGHTING PLAN - IR-76
		CHECKED	
		SMM	

ISSUE RECORD:		
NO.	DATE	DESCRIPTION

NOTES:
1) SEE SHEET 652 FOR PLAN LEGEND.



659
1022

SUM-76 / 77 / 8
10.99 / 11.54 / 0.00

LIGHTING PLAN - IR-76
STA. 565+00 TO END PROJECT

CALCULATED
MJH

CHECKED
KAE

0 20 40 80
HORIZONTAL
SCALE IN FEET

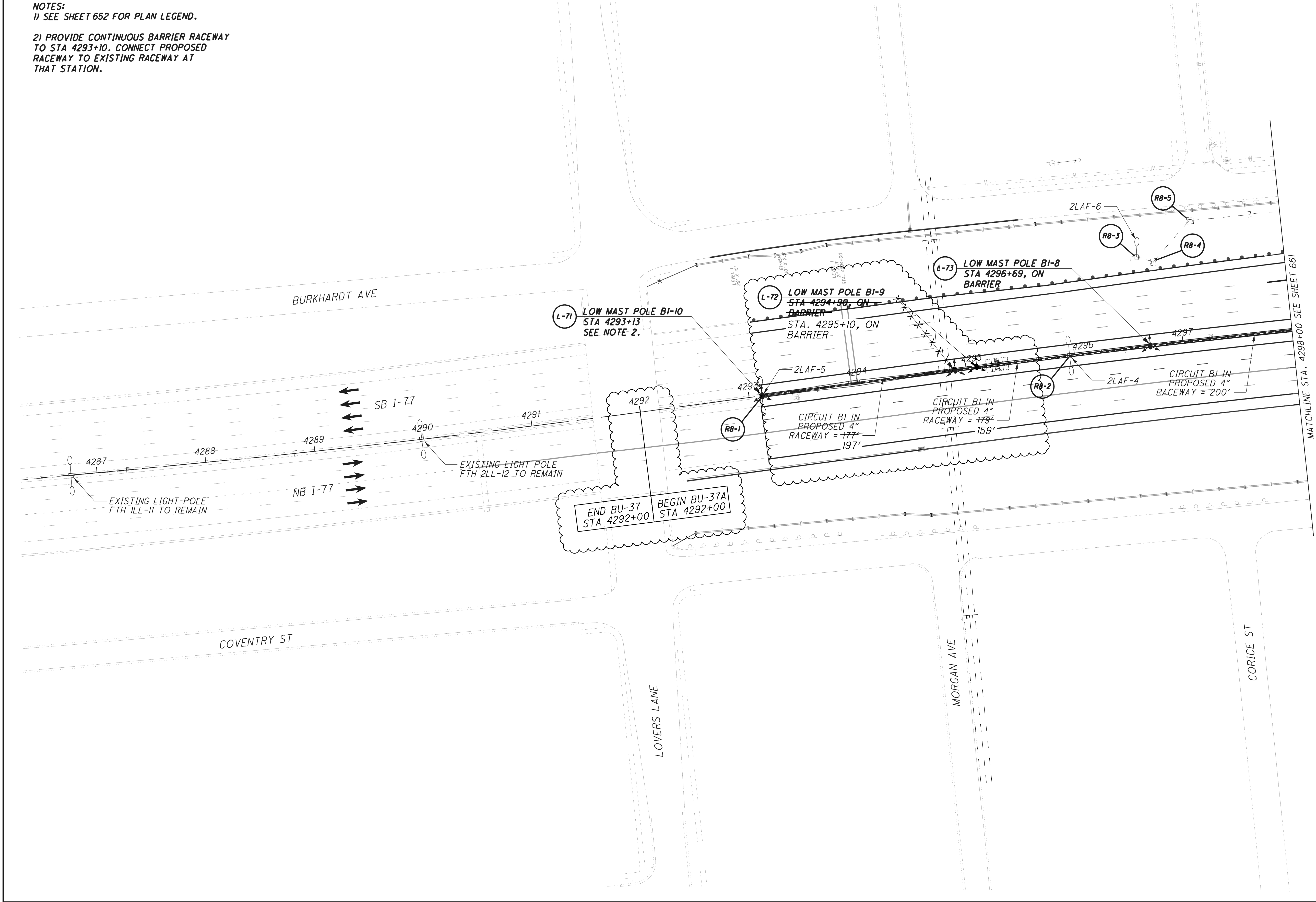
2026-09-10 - BU-37A - RECORD DRAWING PLANS

SUM-76 / 77 / 8- 8.24 / 9.74 / 0.00	LIGHTING PLAN - IR-76	
	CALCULATED EMS	CHECKED SMM

ISSUE RECORD:		
NO.	DATE	DESCRIPTION

NOTES:
1) SEE SHEET 652 FOR PLAN LEGEND.

2) PROVIDE CONTINUOUS BARRIER RACEWAY
TO STA 4293+10. CONNECT PROPOSED
RACEWAY TO EXISTING RACEWAY AT
THAT STATION.



660
1022

SUM-76 / 77 / 8
10.99 / 11.54 / 0.00

LIGHTING PLAN - IR-77
BEGIN WORK TO STA 4298+00

CALCULATED
MUH

CHECKED
KAE

CALCULATED
0
20
40
80
HORIZONTAL
SCALE IN FEET

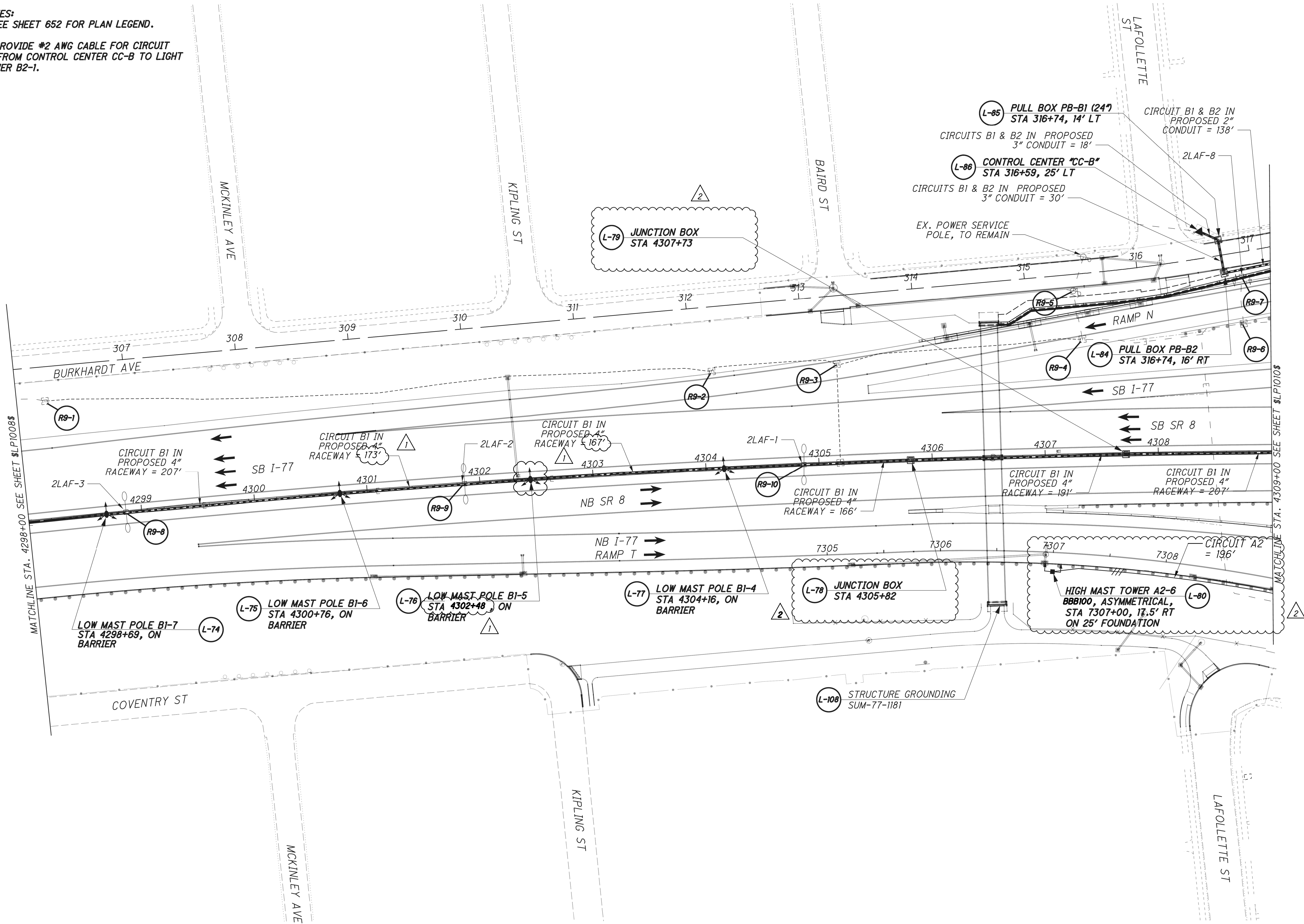
N

2026-09-10 - BU-37A - RECORD DRAWING PLANS

SUM-76 / 77 / 8- 8.24 / 9.74 / 0.00	LIGHTING PLAN - IR-77	
	CALCULATED	EMS
21 39		CHECKED SMM

ISSUE RECORD:		
NO.	DATE	DESCRIPTION
1	4/6/22	BUILDABLE UNIT MATCH LINE
1	2/7/22	RELOCATE L-72

NOTES:
1) SEE SHEET 652 FOR PLAN LEGEND.
2) PROVIDE #2 AWG CABLE FOR CIRCUIT B2 FROM CONTROL CENTER CC-B TO LIGHT TOWER B2-1.



LIGHTING PLAN - IR-77
STA. 4298+00 TO STA 4309+00

SUM-76/77
11.31/11.30

2026-09-10 - BU-37A - RECORD DRAWING PLANS

SUM-76/77/8-
8.24/9.74/0.00

LIGHTING PLAN - IR-77

ISSUE RECORD:		
NO.	DATE	DESCRIPTION
1	4/6/22	REVISED FROM SUM-76/77/8.24/9.74/0.00 (RFI-19)
2	11/7/24	JUNCTION BOX AND HIGH MAST TOWER REVISION

661
1022

CALCULATED

MJH

CHECKED

KAE

0

20

40

80

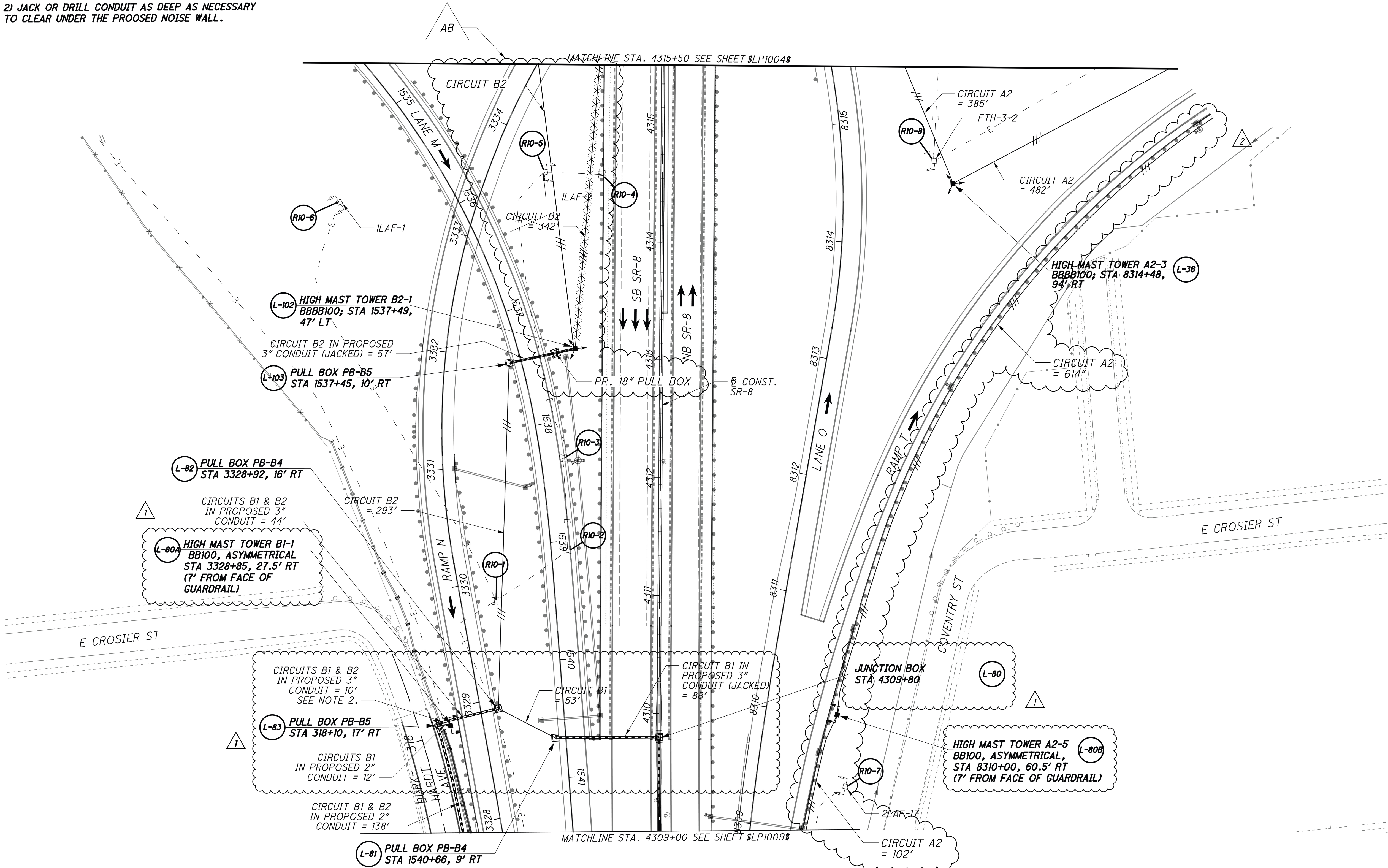
HORIZONTAL

SCALE IN FEET

N

CALCULATED
EMS
CHECKED
SMM

NOTES:
1) SEE SHEET 652 FOR PLAN LEGEND.
2) JACK OR DRILL CONDUIT AS DEEP AS NECESSARY
TO CLEAR UNDER THE PROPOSED NOISE WALL.



LIGHTING PLAN - IR-77
STA. 4309+00 TO STA 4315+50

SUM-76 / 77
11.31 / 11.30

662
1022

2026-09-10 - BU-37A - RECORD DRAWING PLANS

SUM-76 / 77 / 8-
8.24 / 9.74 / 0.00

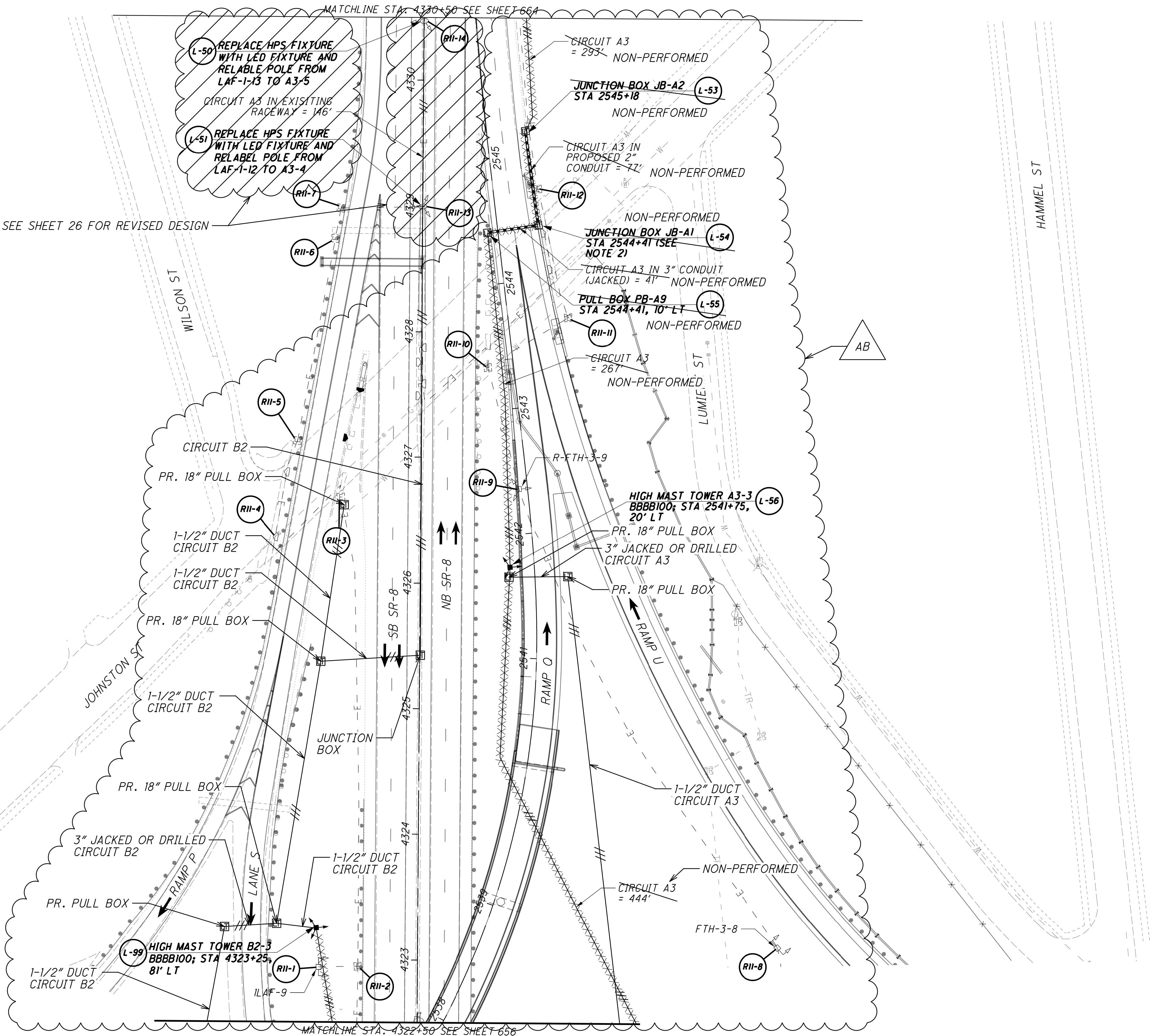
LIGHTING PLAN - IR-77

CALCULATED
EMS
CHECKED
SMM

ISSUE RECORD:		
NO.	DATE	DESCRIPTION
1	11/7/24	JUNCTION BOX AND HIGH MAST TOWER REVISION
2	2/14/24	ADDITIONAL LIGHTING INFORMATION
AB	5/21/24	SB SR8 CONDUIT REROUTE
AB	3/4/26	ADDED PULL BOX

23
39

NOTES:
1) SEE SHEET 652 FOR PLAN LEGEND.
2) PULL BOX FOR UNDERPASS LIGHTING.
SEE SHEET 665 FOR UNDERPASS
LIGHTING PLAN.



LIGHTING PLAN - SR-8
STA. 4322+50 TO STA 4330+50

SUM-76 / 77 / 8
10.99 / 11.54 / 0.00

663
1022

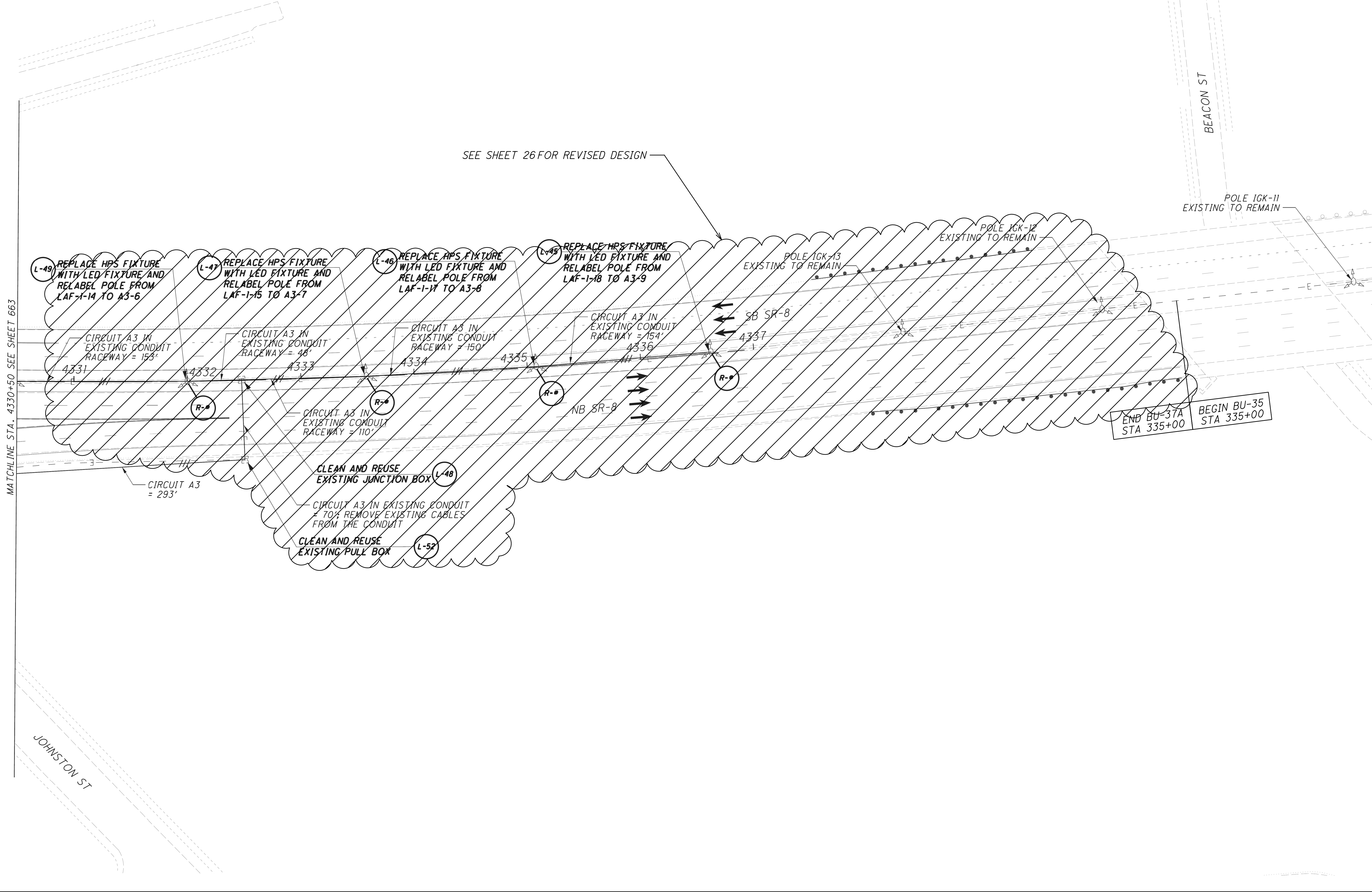
2026-09-10 - BU-37A - RECORD DRAWING PLANS

SUM-76 / 77 / 8-
8.24 / 9.74 / 0.00

LIGHTING PLAN - SR-8

ISSUE RECORD:		
NO.	DATE	DESCRIPTION
1	4/6/22	REVISED FROM SUM-76/77/8-8.24/9.97/0.00
AB	5/21/24	SB SR8 CONDUIT REROUTE
AB	10/30/24	CIRCUIT REROUTE SOUTH JOHNSTON ST.
AB	3/2/26	CIRCUIT REROUTE SOUTH JOHNSTON ST.

NOTES:
1) SEE SHEET 652 FOR PLAN LEGEND.



CALCULATED
MJH
CHECKED
KAE

0 20 40 80

HORIZONTAL
SCALE IN FEET

N

SUM-76 / 77 / 8
10.99 / 11.54 / 0.00

664
1022

LIGHTING PLAN - SR-8
STA. 4322+50 TO END WORK

2026-09-10 - BU-37A - RECORD DRAWING PLANS

ISSUE RECORD:		
NO.	DATE	DESCRIPTION
1	4/6/22	REVISED FROM SUM-76/77/8-8-24/9.74/0.00

SUM-76 / 77 / 8-
8.24 / 9.74 / 0.00

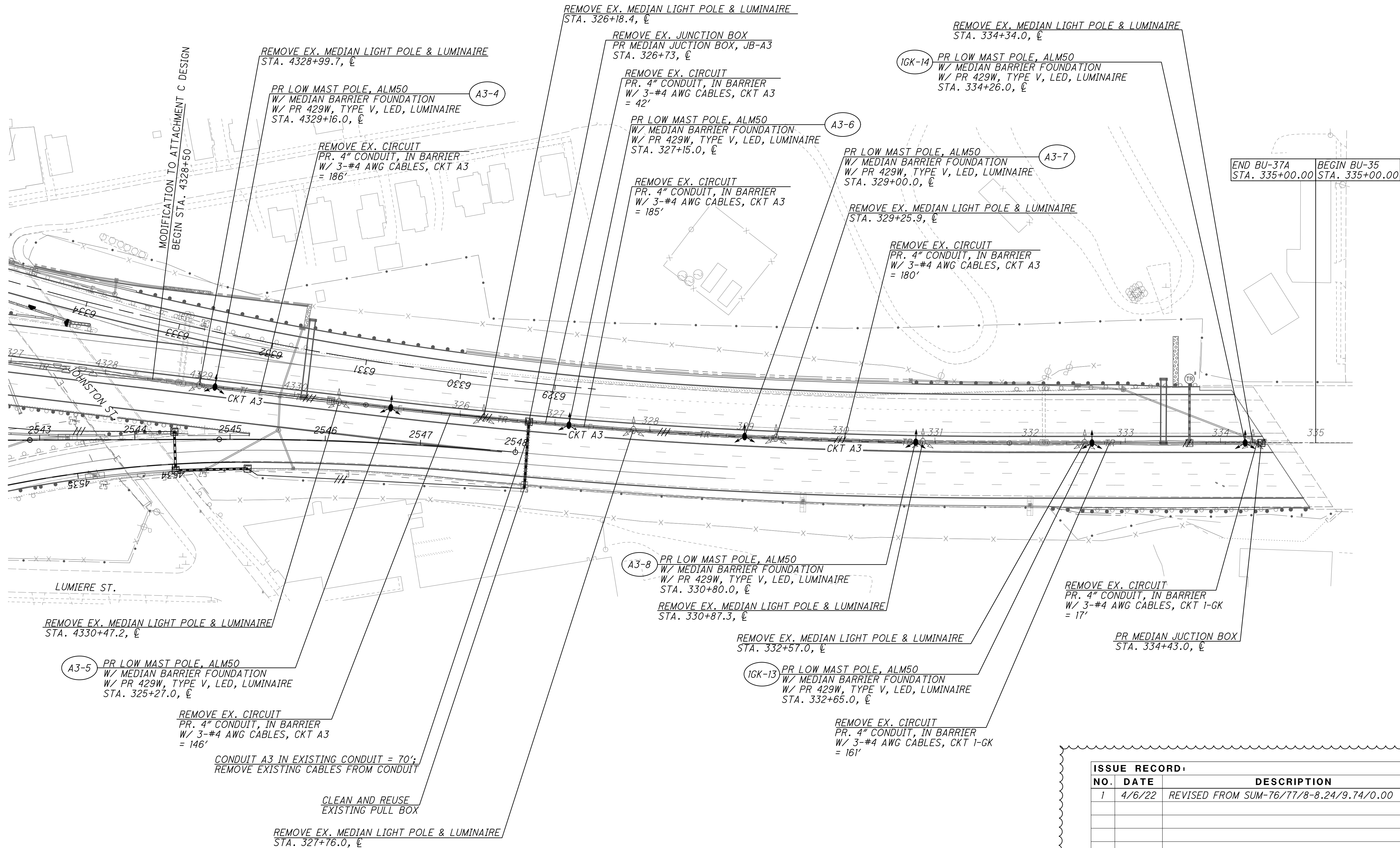
25
39

LIGHTING PLAN - SR-8

CALCULATED
EMS
CHECKED
SMM

SUSER
SPATES
D:\FILES\NAVAOP\MINI\parsons.com\Ohio State\Documents\VB-Akron Beltway Rehab\0 - Design\02329 Lighting\Sheets\BU-37A\02329_LP523.dgn Sheet 6/26/2026 4:25:00 PM bschneider

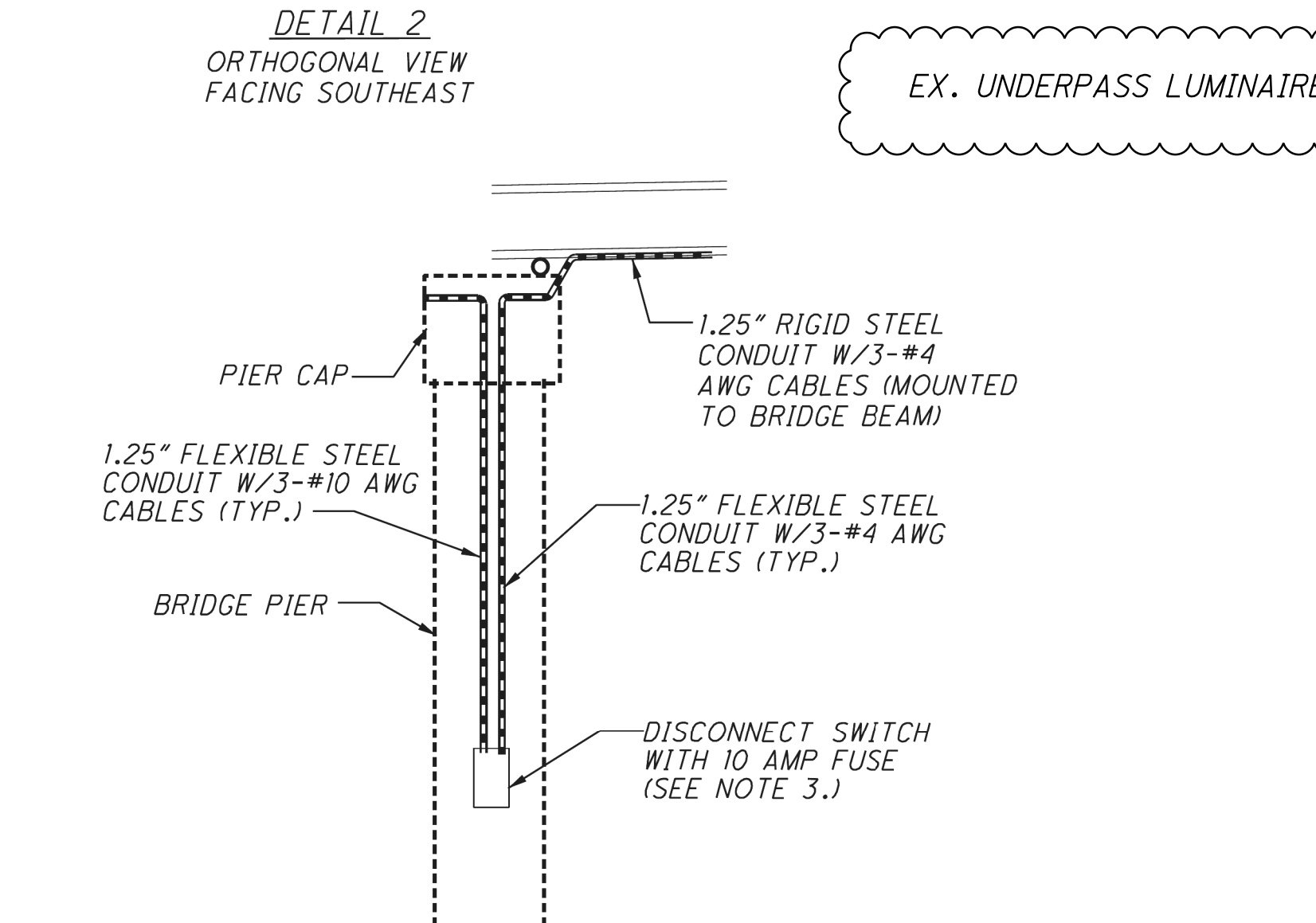
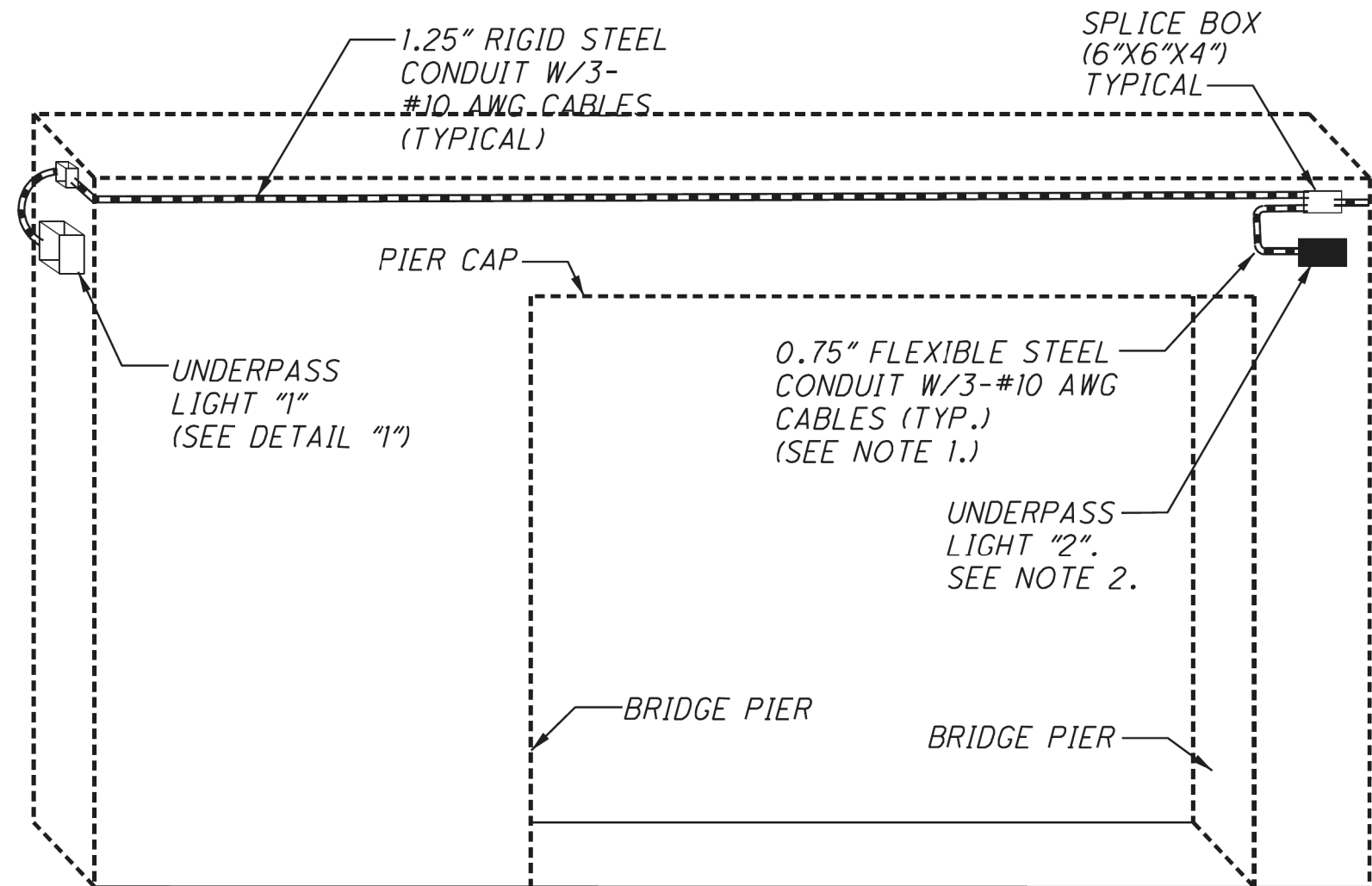
ALL LIGHTING WITHIN THE CENTRAL INTERCHANGE SHALL BE PER PLANS AND PROVISIONS
AS SHOWN IN ATTACHMENT C - SUM-76/77/8, 10.99/11.54/0.00 EXCEPT FOR IMPACTS TO
THE LIGHTING DESIGN DUE TO THE MEDIAN BARRIER REPLACEMENT AS SHOWN ON THIS SHEET.



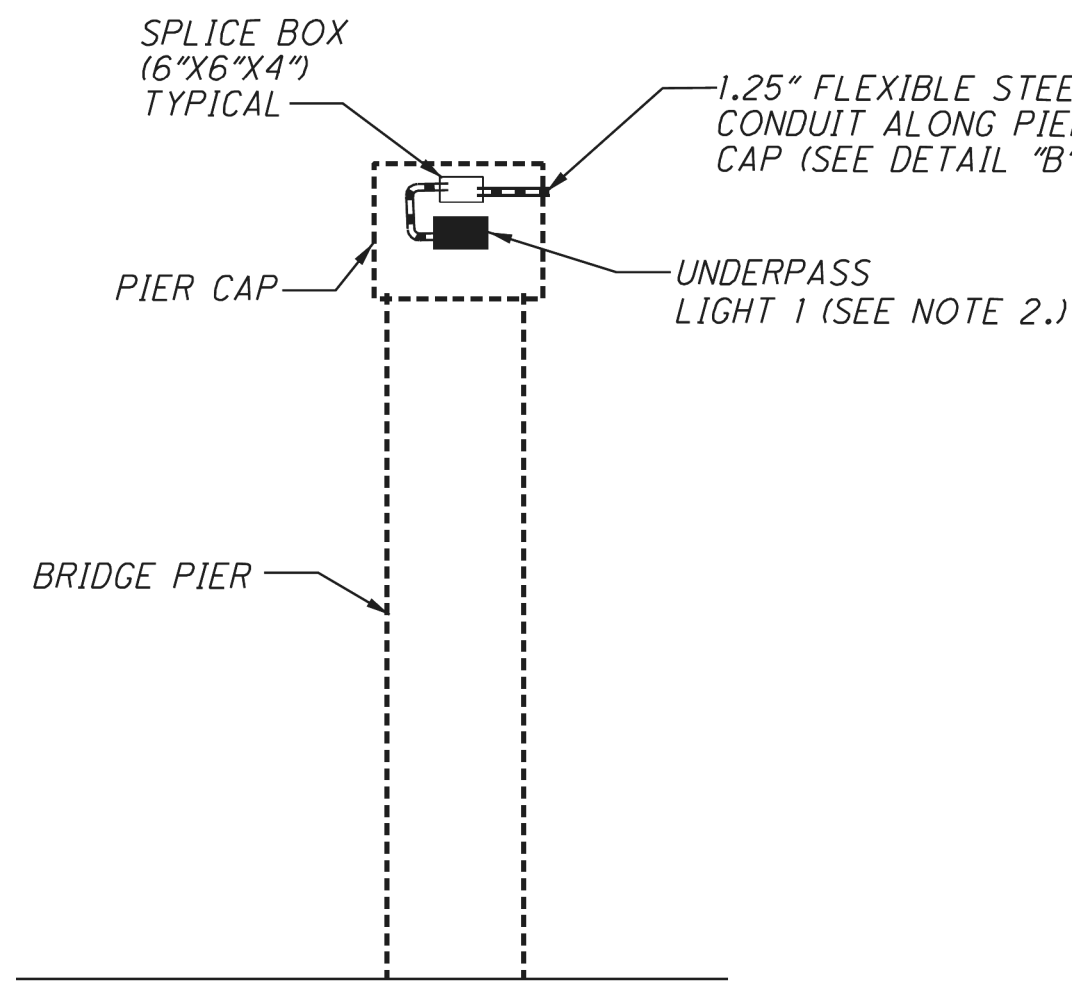
ISSUE RECORD:		
NO.	DATE	DESCRIPTION
1	4/6/22	REVISED FROM SUM-76/77/8-8.24/9.74/0.00

2026-09-10 BU-37A RECORD DRAWING PLANS

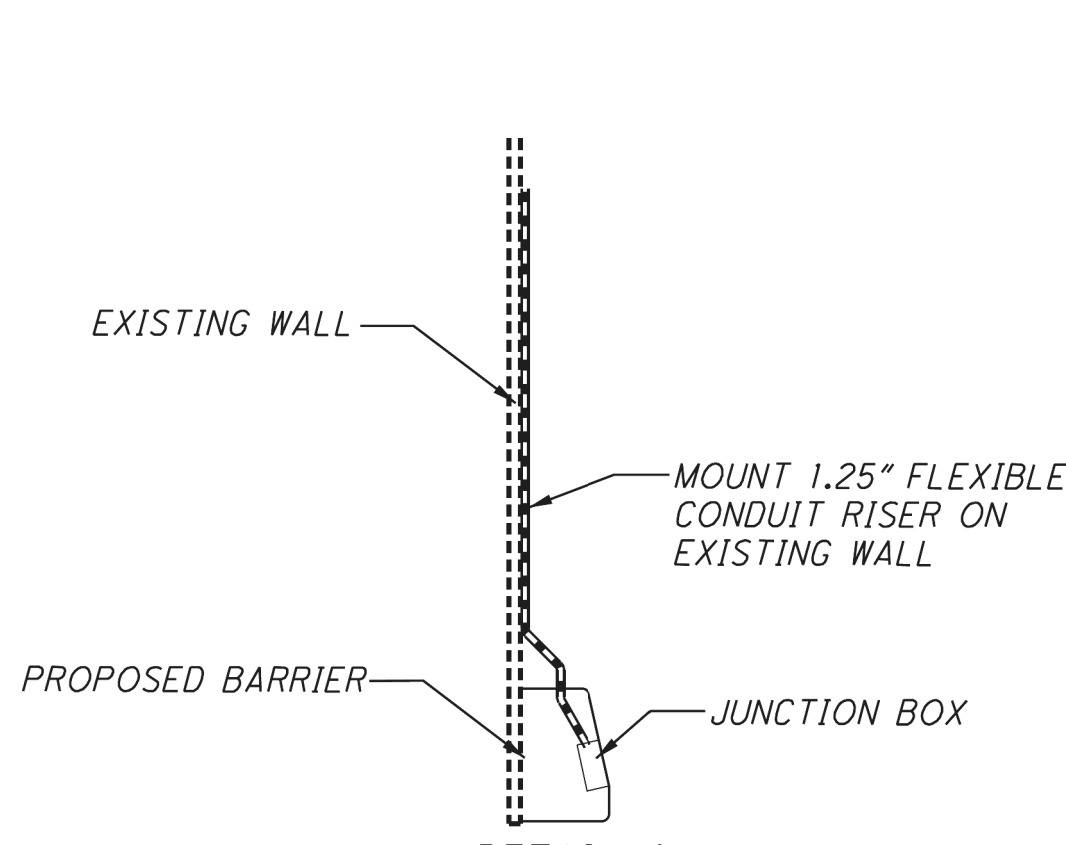
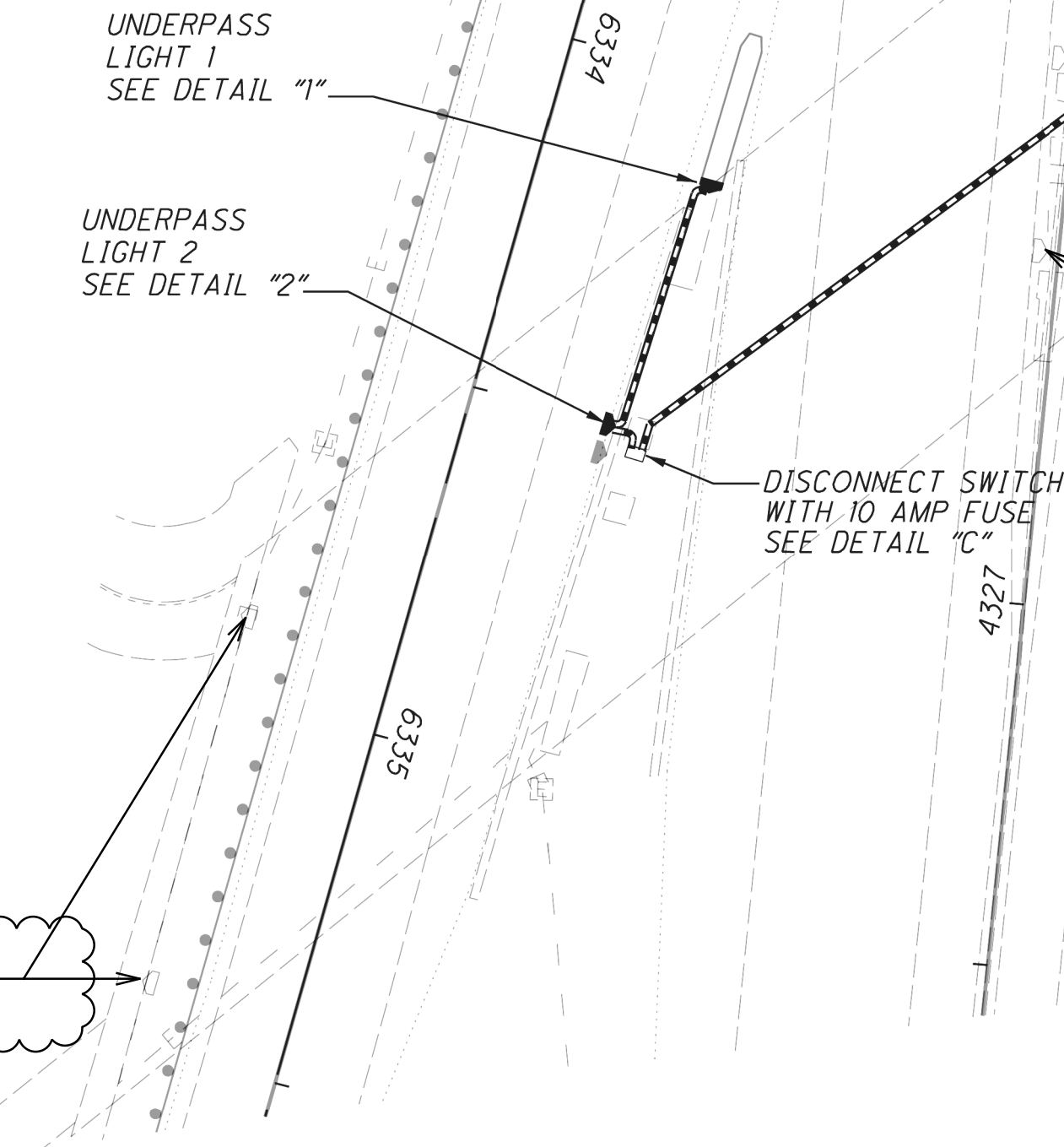
- NOTES:
- 1) PROVIDE 0.75" PVC-COATED (SEALTIGHT) FLEXIBLE STEEL CONDUIT FROM SPLICE BOX TO UNDERPASS LIGHTING FIXTURE.
- 2) MOUNT UNDERPASS LIGHTS 3' FROM THE TOP OF THE PIER CAP. MOUNT UNDERPASS LIGHT "1" IN THE CENTER OF THE PIER CAP. MOUNT UNDERPASS LIGHT "2" 3' FROM THE RIGHT EDGE OF THE PIER CAP.
- 3) MOUNT DISCONNECT SWITCH ON THE FACE OF THE PIER, FACING SOUTH.
- 4) LUMINAIRE FOR UNDERPASS LIGHT "1" SHALL BE "ITEM 625 LUMINAIRE, UNDERPASS, AS PER PLAN "A". LUMINAIRE FOR UNDERPASS LIGHT "2" SHALL BE "ITEM 625 LUMINAIRE, UNDERPASS, AS PER PLAN "B".
- 5) CONDUIT, WIRING, AND JUNCTION BOX SHALL BE CONSIDERED INCIDENTAL TO AND INCLUDED WITH "ITEM 625 SERVICE TO UNDERPASS LIGHTING".



DETAIL 3
FACING NORTH

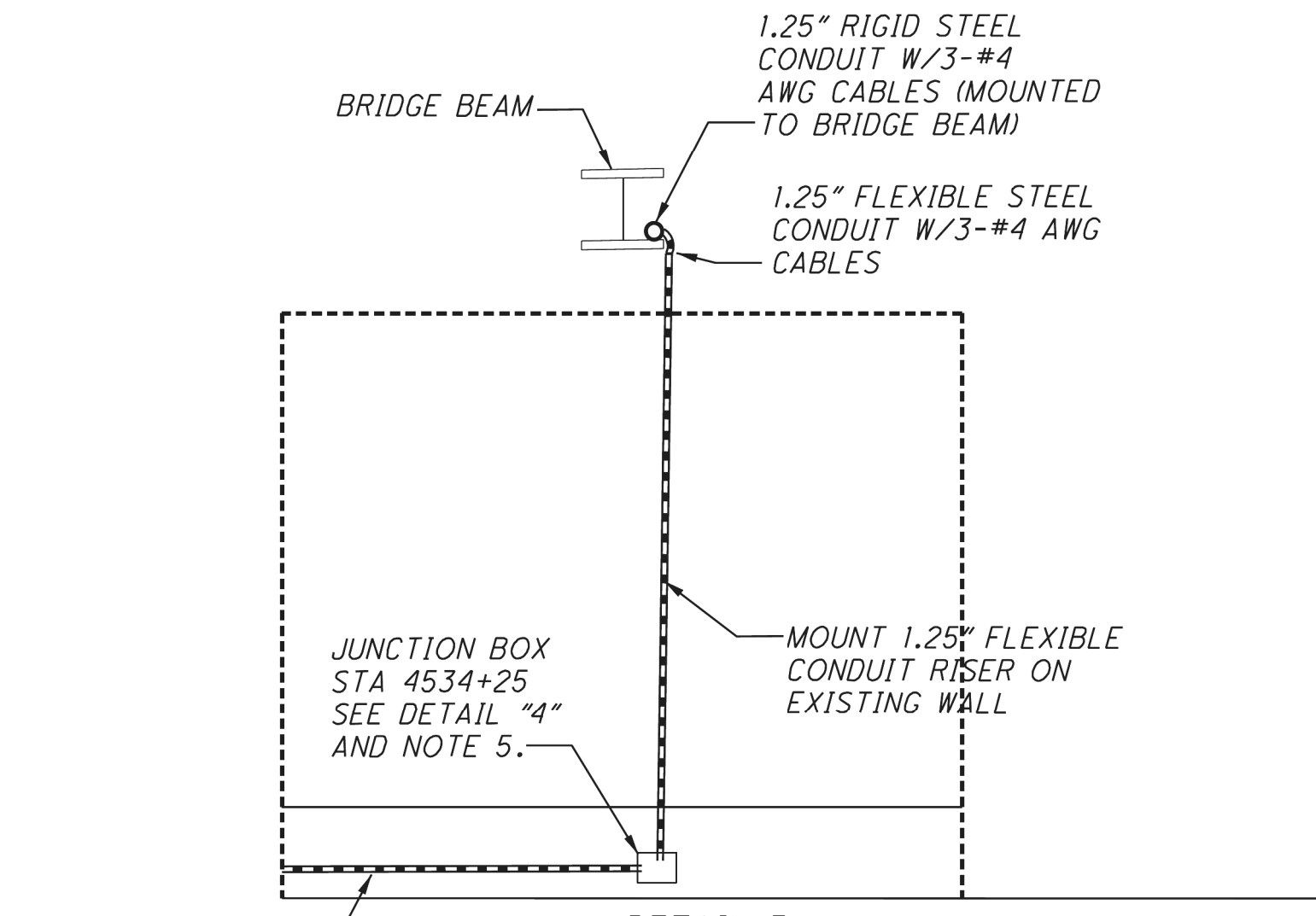


DETAIL 1
FACING SOUTH

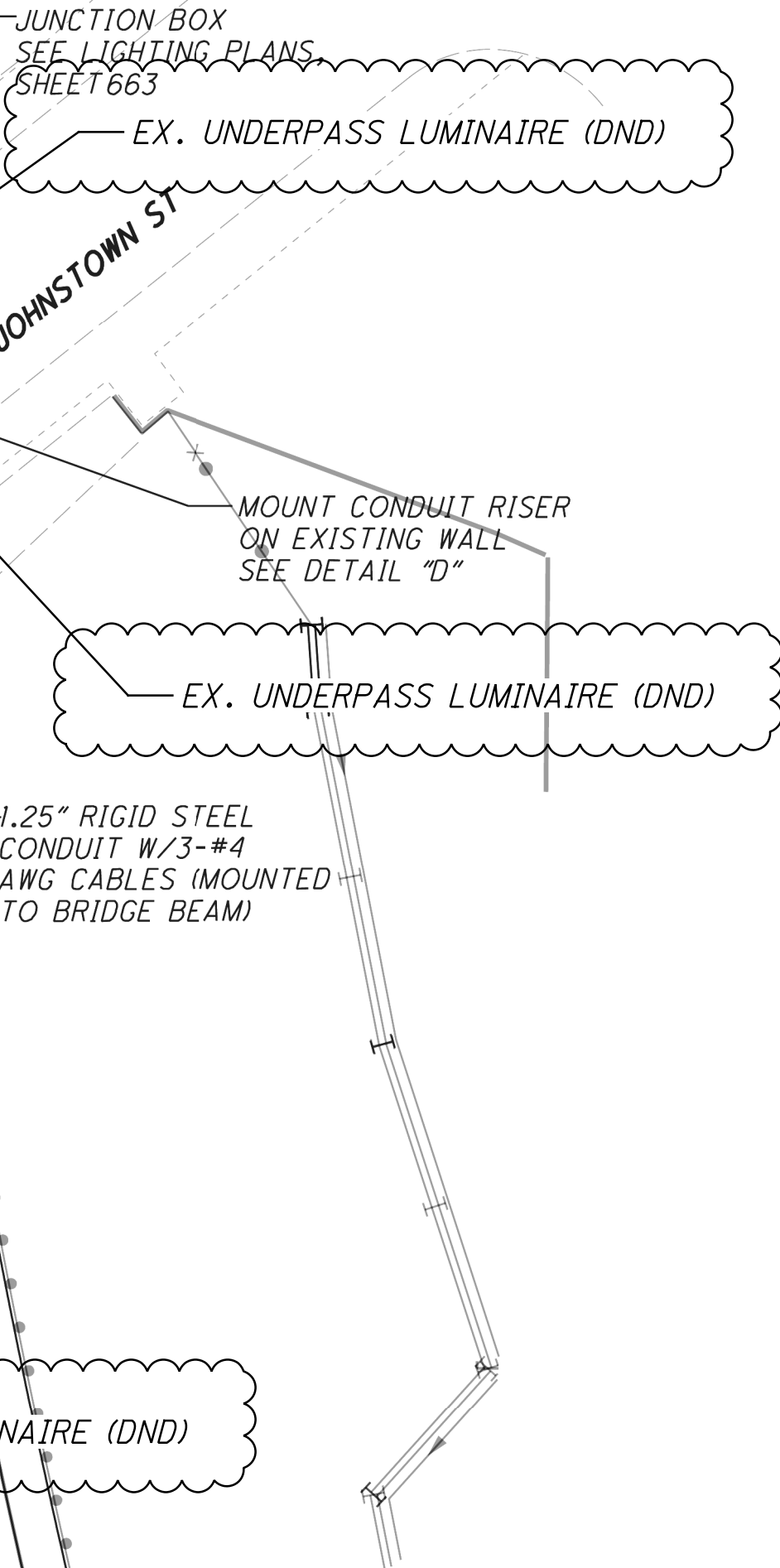


DETAIL 4
FACING SOUTH

2" CONDUIT WITH
(3)-#4 AWG CABLES
= 26' (SEE NOTE 5.)



DETAIL 5
FACING EAST



UNDERPASS LIGHTING PLAN
EB I-76 OVER LANE O

SUM-76/77/8
10.99/11.54/0.00

665
1022

2026-09-10 - BU-37A - RECORD DRAWING PLANS

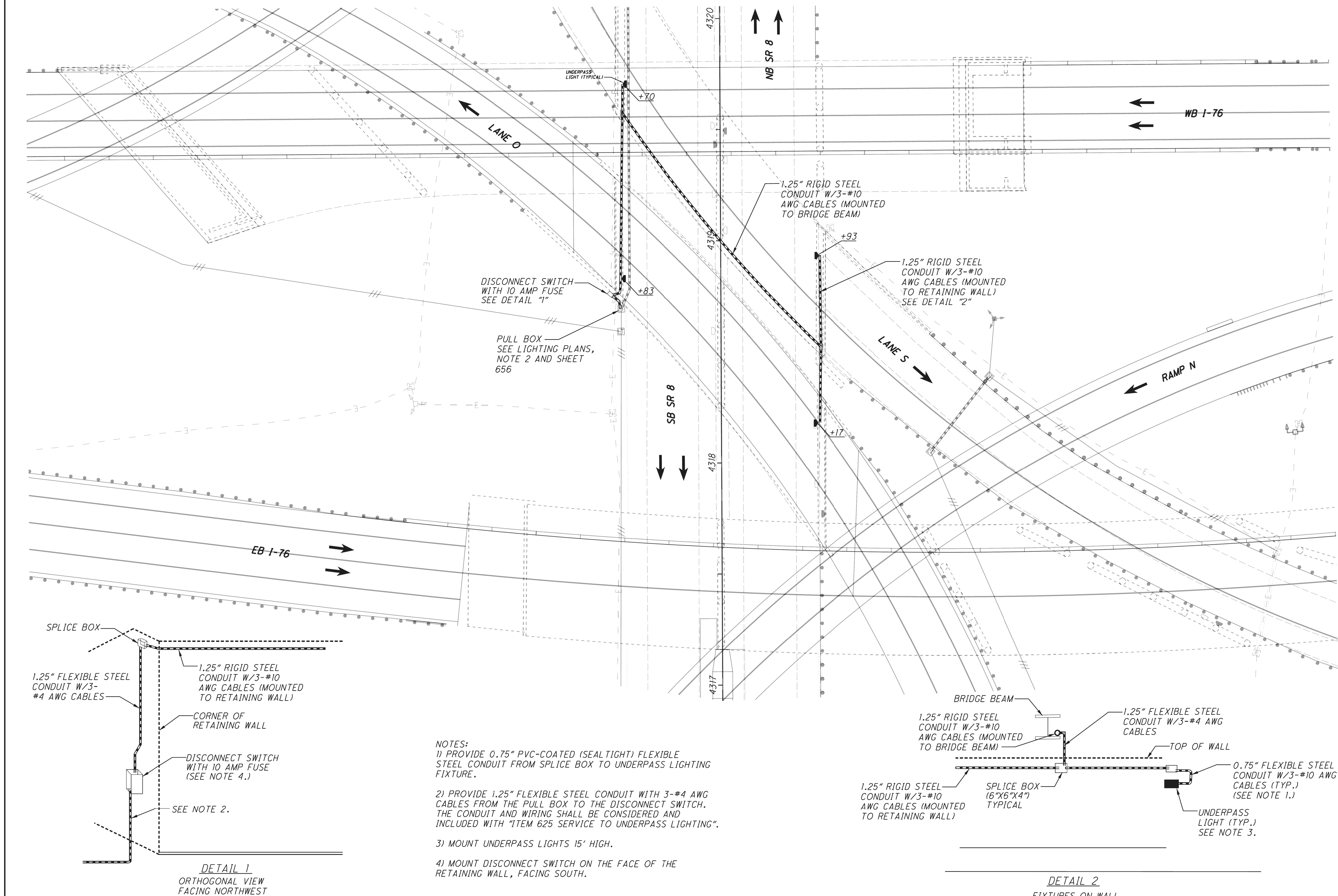
SUM-76/77/8 -
8.24/9.74/0.00

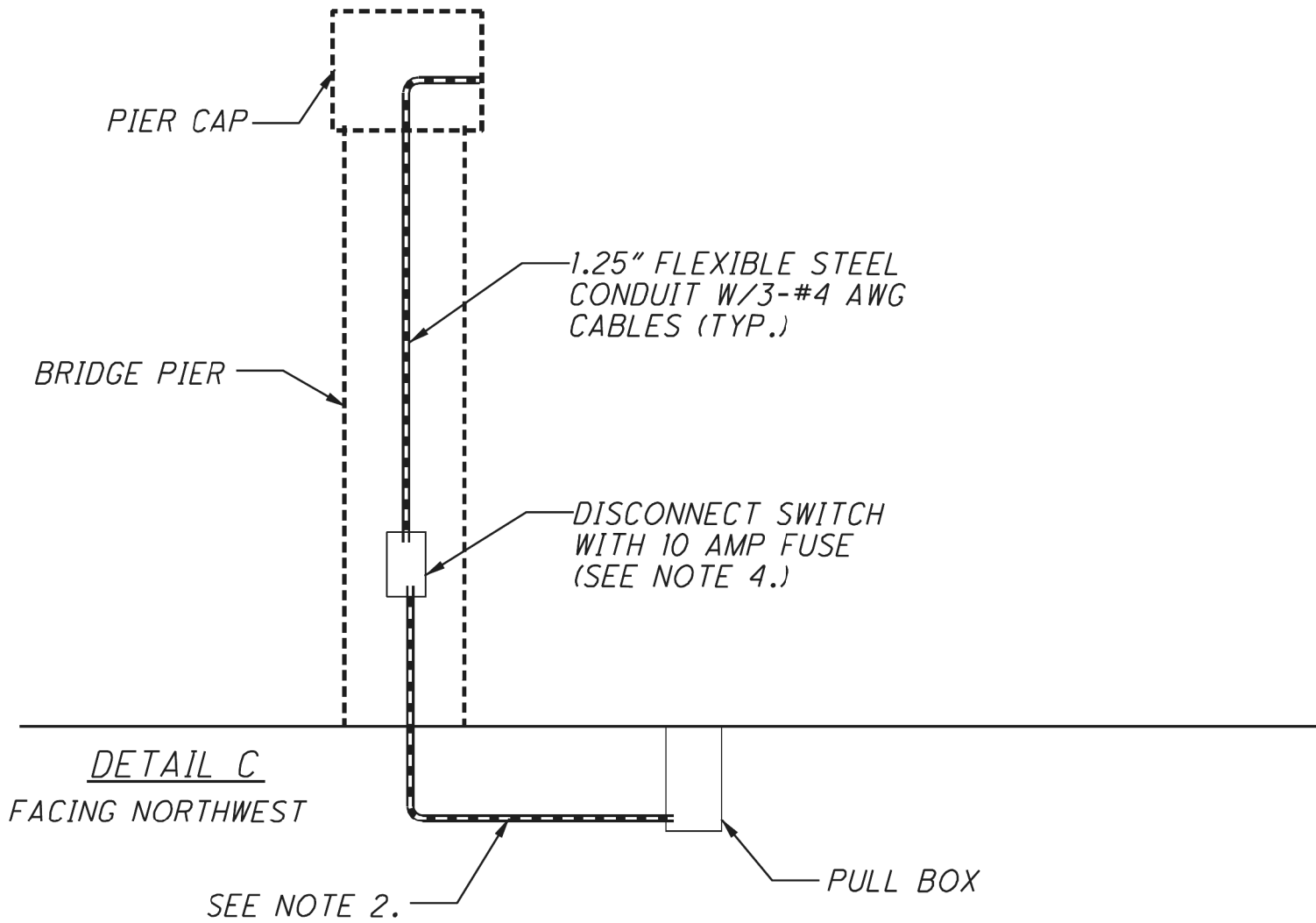
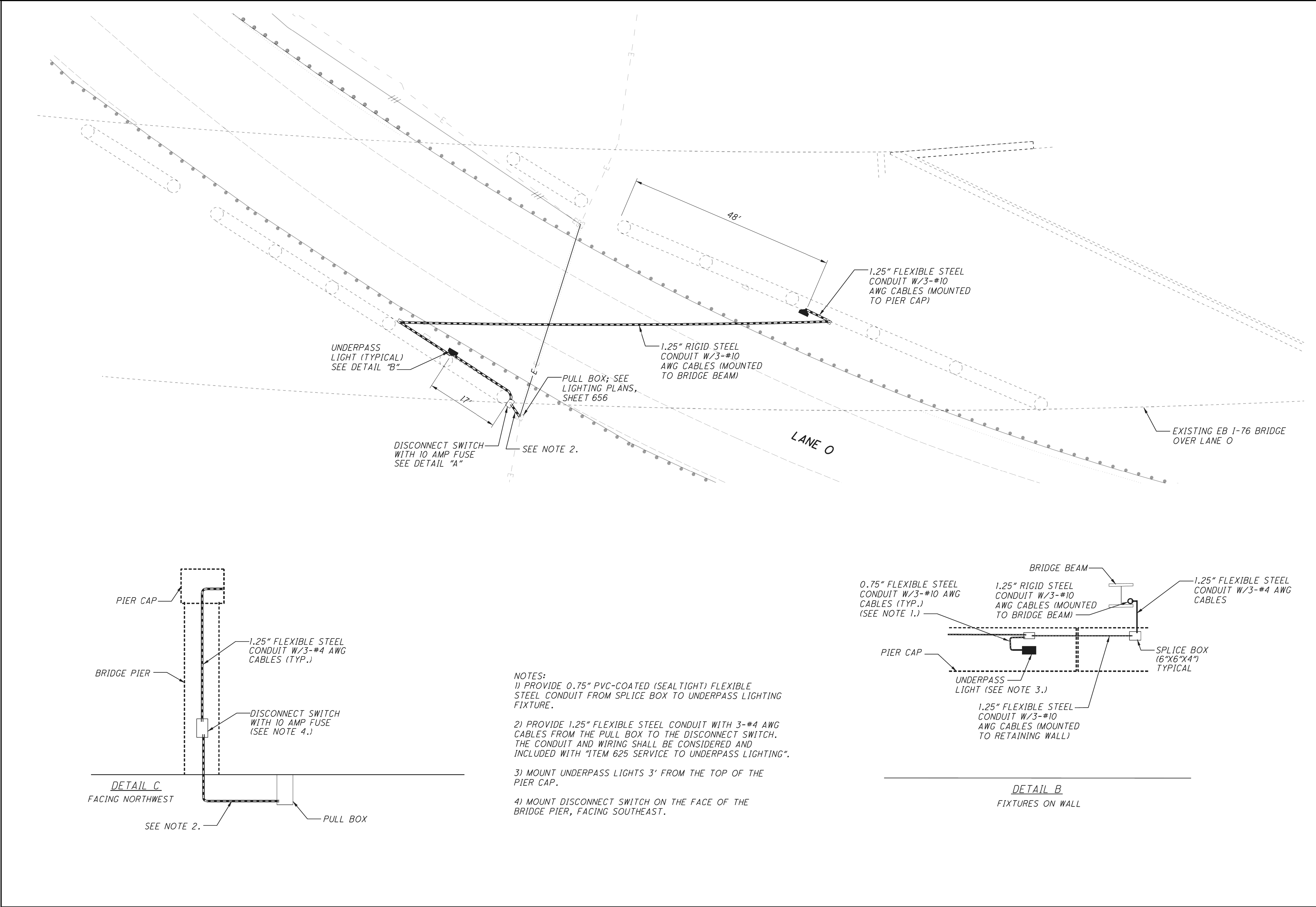
UNDERPASS DETAIL

CALCULATED
EMS
CHECKED
SMM

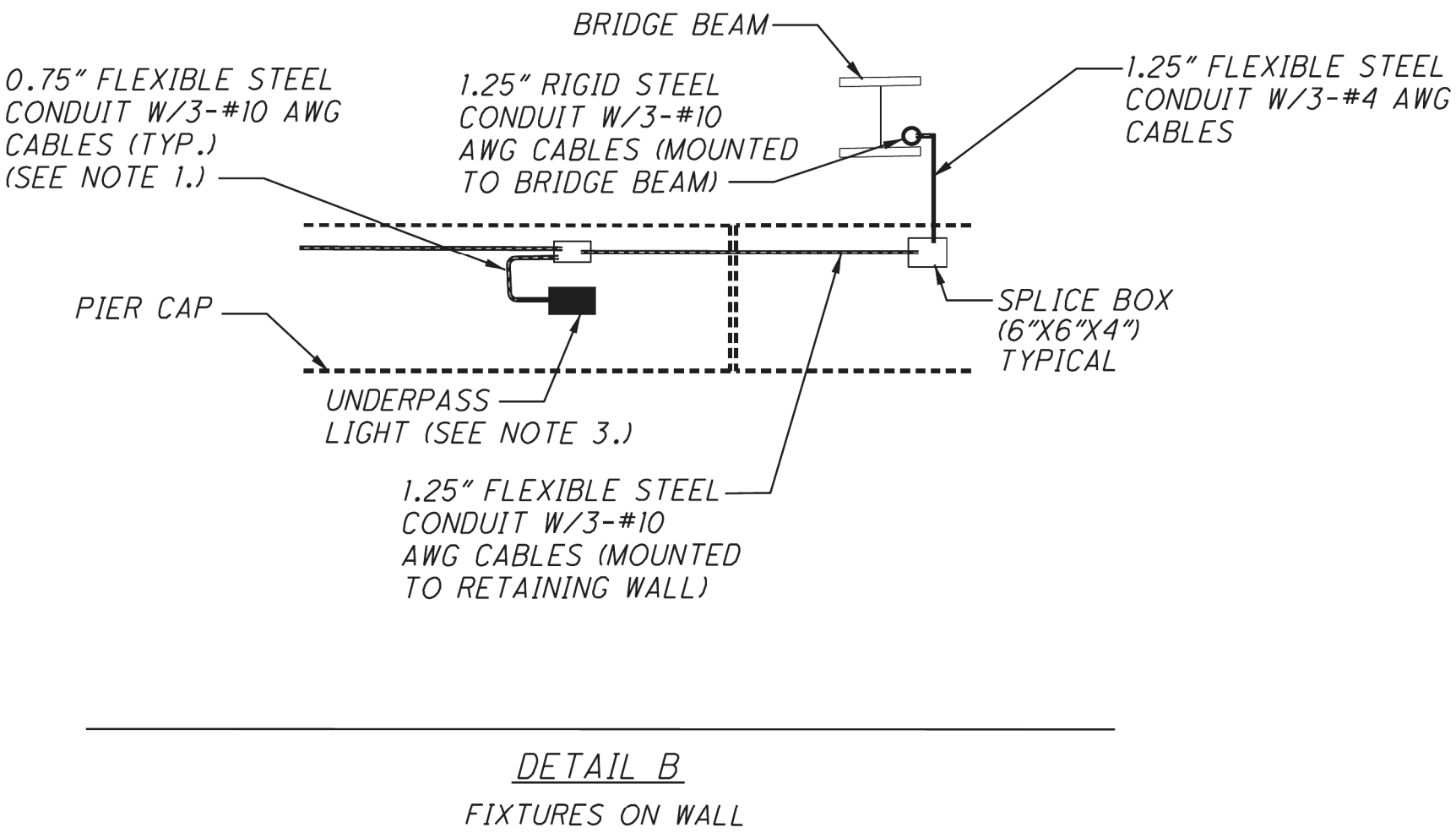
27
39

ISSUE RECORD:		
NO.	DATE	DESCRIPTION
2	4/26/22	ADD EX. LUMINAIRE ANNOTATION

[illegible]



- NOTES:
- 1) PROVIDE 0.75" PVC-COATED (SEALTIGHT) FLEXIBLE STEEL CONDUIT FROM SPLICE BOX TO UNDERPASS LIGHTING FIXTURE.
- 2) PROVIDE 1.25" FLEXIBLE STEEL CONDUIT WITH 3-#4 AWG CABLES FROM THE PULL BOX TO THE DISCONNECT SWITCH. THE CONDUIT AND WIRING SHALL BE CONSIDERED AND INCLUDED WITH "ITEM 625 SERVICE TO UNDERPASS LIGHTING".
- 3) MOUNT UNDERPASS LIGHTS 3' FROM THE TOP OF THE PIER CAP.
- 4) MOUNT DISCONNECT SWITCH ON THE FACE OF THE BRIDGE PIER, FACING SOUTHEAST.



ISSUE RECORD:		
NO.	DATE	DESCRIPTION

CALCULATED
MUH

CHECKED
KAE

0

5

10

20

HORIZONTAL
SCALE IN FEET

667

1022

SUM-76 / 77 / 8
10.99 / 11.54 / 0.00

UNDERPASS LIGHTING PLAN
EB I-76 OVER LANE O

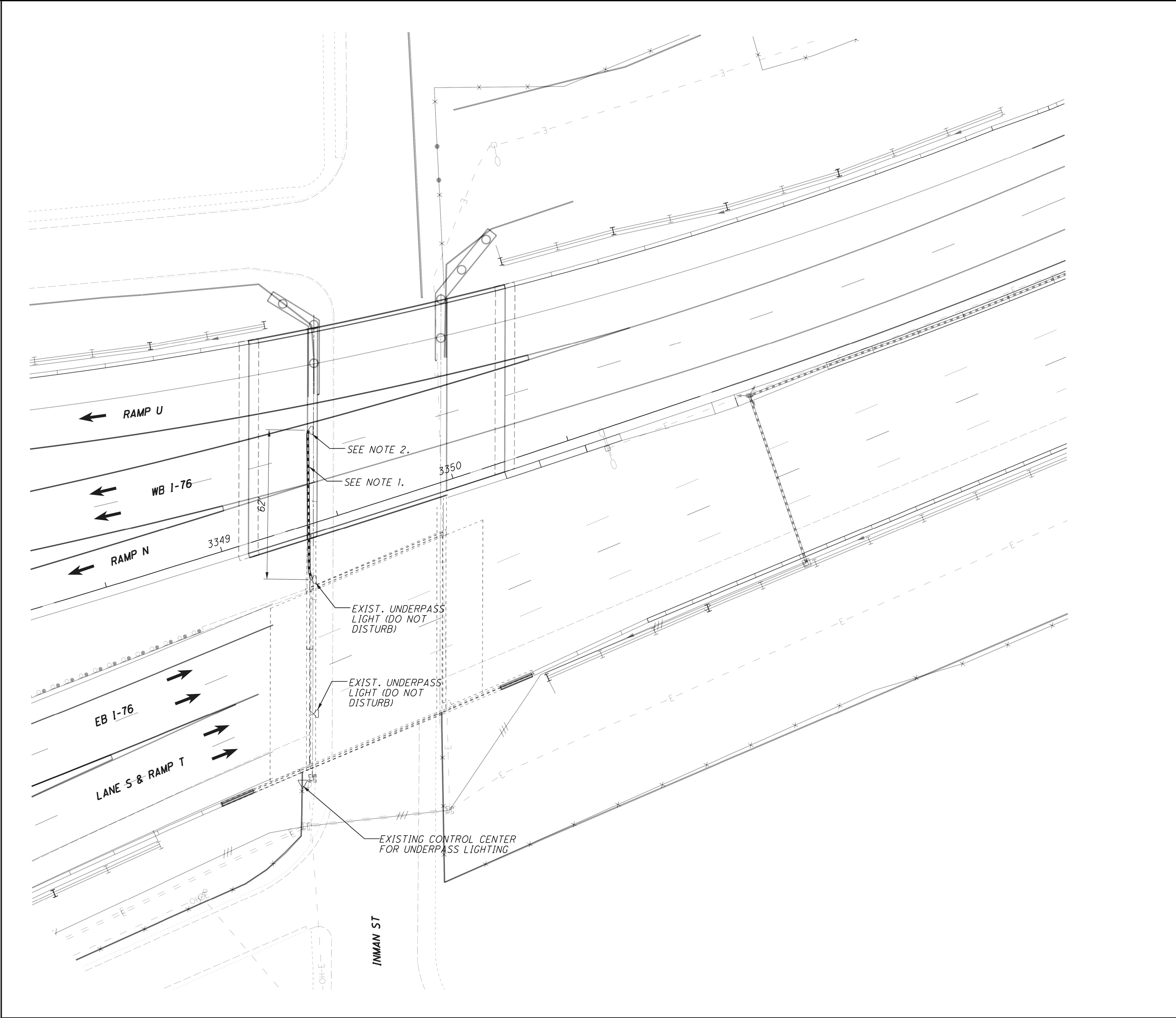
2026-09-10 - BU-37A - RECORD DRAWING PLANS

SUM-76 / 77 / 8-
8.24 / 9.74 / 0.00

UNDERPASS DETAIL

CALCULATED
EMS

CHECKED
SMM



NOTES:
1) RIGID STEEL CONDUIT, 1.5". PROVIDE NEW CONDUIT FROM JUNCTION BOX TO JUNCTION BOX. MOUNT PROPOSED CONDUIT TO BRIDGE ABUTMENT. EXISTING CABLE WHICH IS IN GOOD CONDITION MAY BE REUSED, WITH THE APPROVAL OF THE ENGINEER.
2) REMOVE EXISTING LUMINAIRE AND SPLICE BOX, AND REMOUNT SPLICE BOX AND FIXTURE TO PROPOSED BRIDGE ABUTMENT.
3) PAYMENT FOR THIS WORK SHALL BE MADE UNDER "ITEM 625 LIGHTING, MISC.: REPAIR UNDERPASS LIGHTING".

668
1022

SUM-76 / 77 / 8
10.99 / 11.54 / 0.00

UNDERPASS LIGHTING PLAN
INMAN STREET OVER I-76

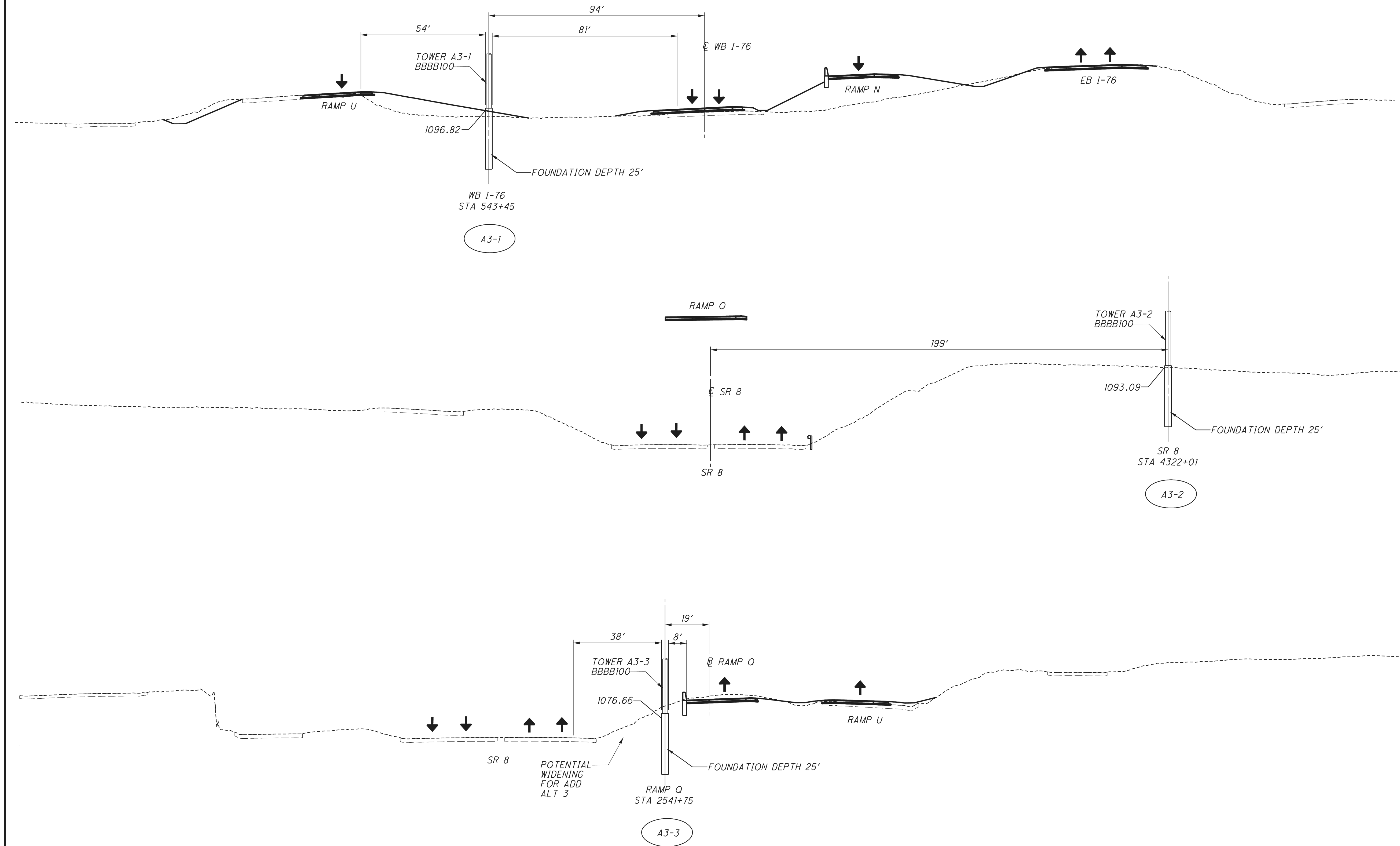
CALCULATED
MJK
CHECKED
KAE

0 10 20 40
HORIZONTAL
SCALE IN FEET

2

2026-09-10 - BU-37A - RECORD DRAWING PLANS

30 39	SUM-76 / 77 / 8- 8.24 / 9.74 / 0.00		UNDERPASS DETAIL		CALCULATED EMS
					CHECKED SMM

[illegible]

LIGHTING PLAN

TOWER ELEVATIONS - A3-1, A3-2, A3-3

SUM-76 / 77 / 8
10.99 / 11.54 / 0.00

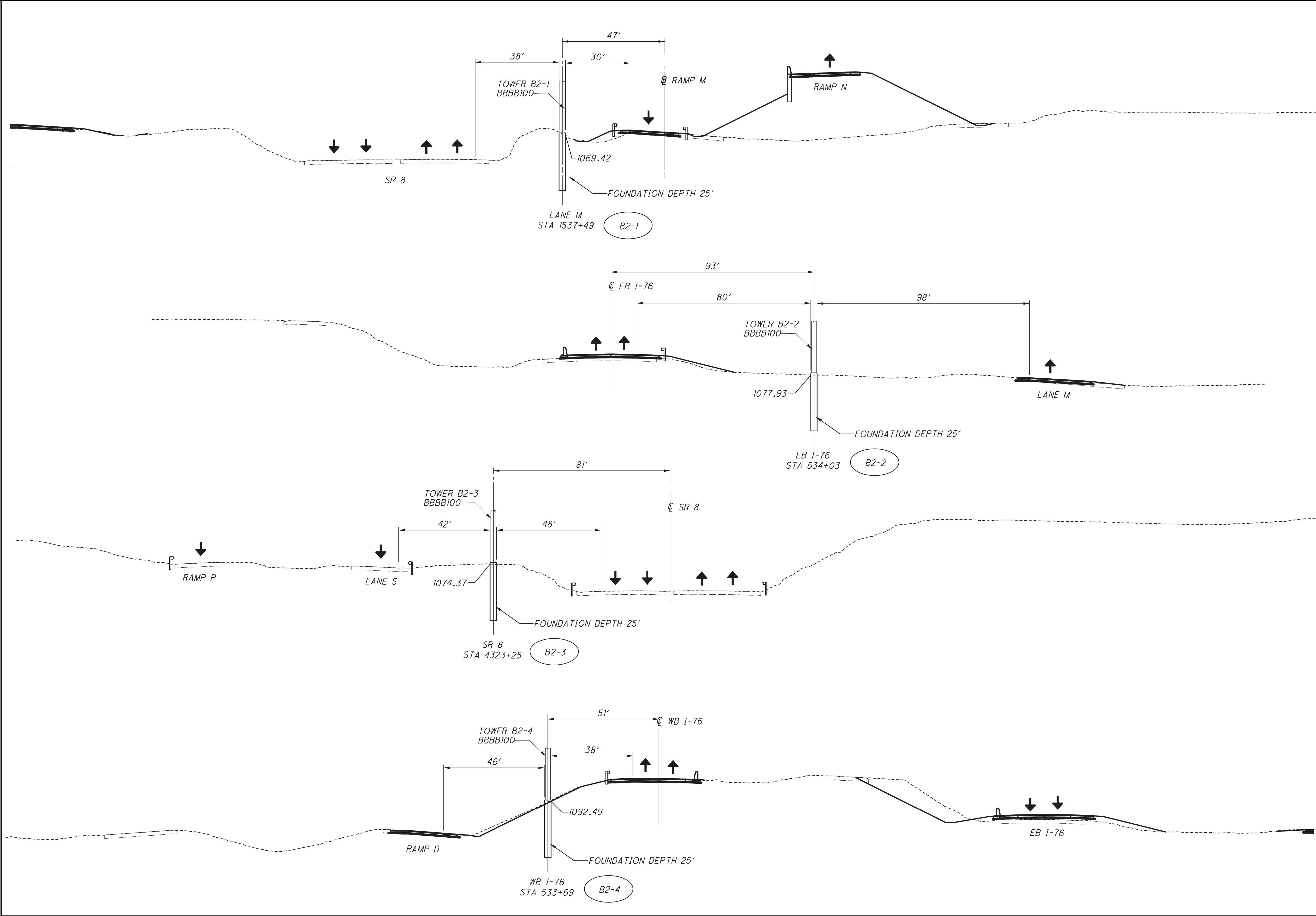
2026-09-10 - BU-37A - RECORD DRAWING PLANS

**SUM-76/77/8-
8.24/9.74/0.00**

TOWER ELEVATION

CALCULATED EMS	CHECKED SMM
-------------------	----------------

**SUM-76/77/8-
8.24/9.74/0.00**



CALCULATED
MUH

CHECKED
KAE

0

10

20

40

HORIZONTAL
SCALE IN FEET

LIGHTING PLAN

TOWER ELEVATIONS - B2-1, B2-2, B2-3, B2-4

SUM-76 / 77 / 8
10.99 / 11.54 / 0.00

671
1022

2026-09-10 - BU-37A - RECORD DRAWING PLANS

ISSUE RECORD:		
NO.	DATE	DESCRIPTION

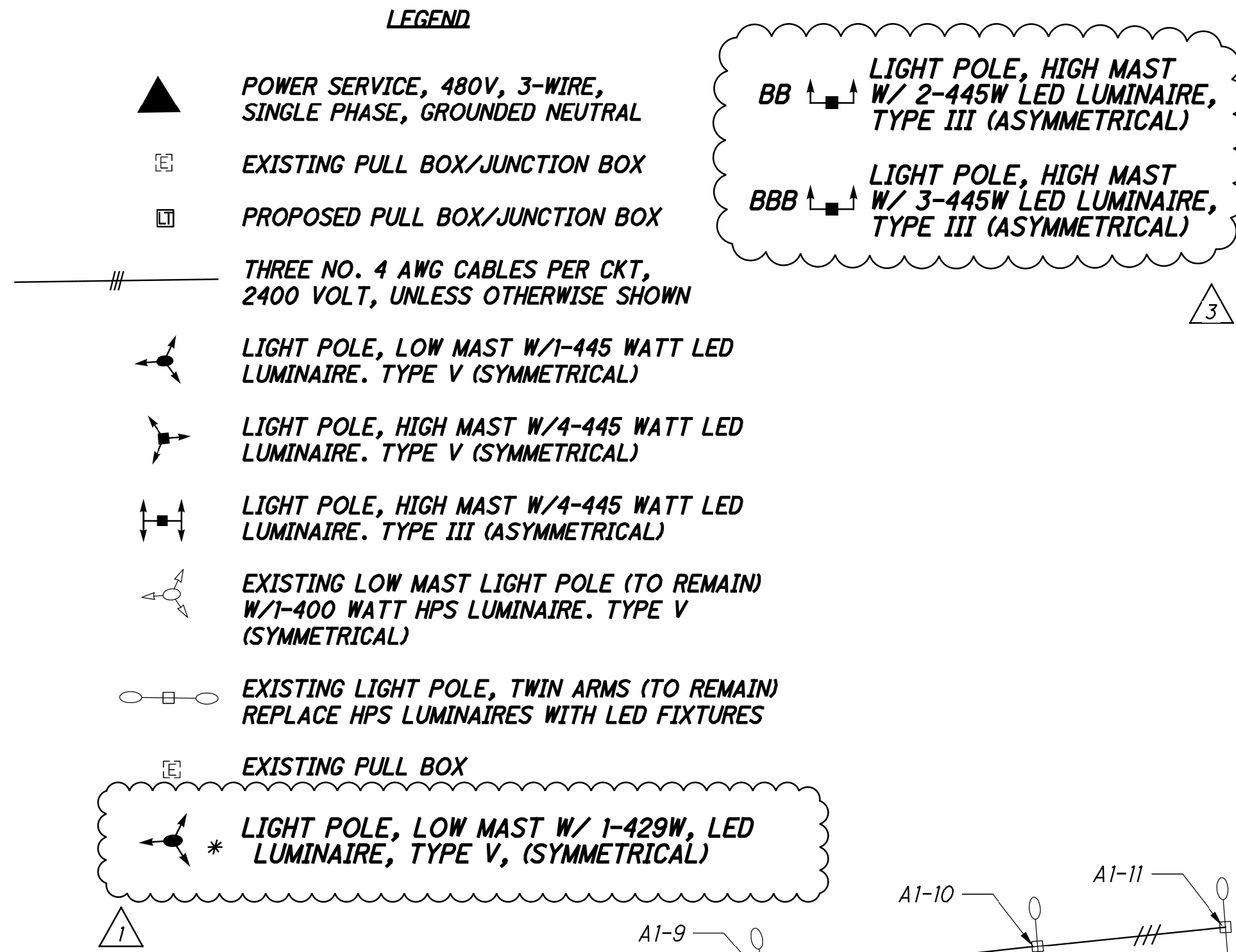
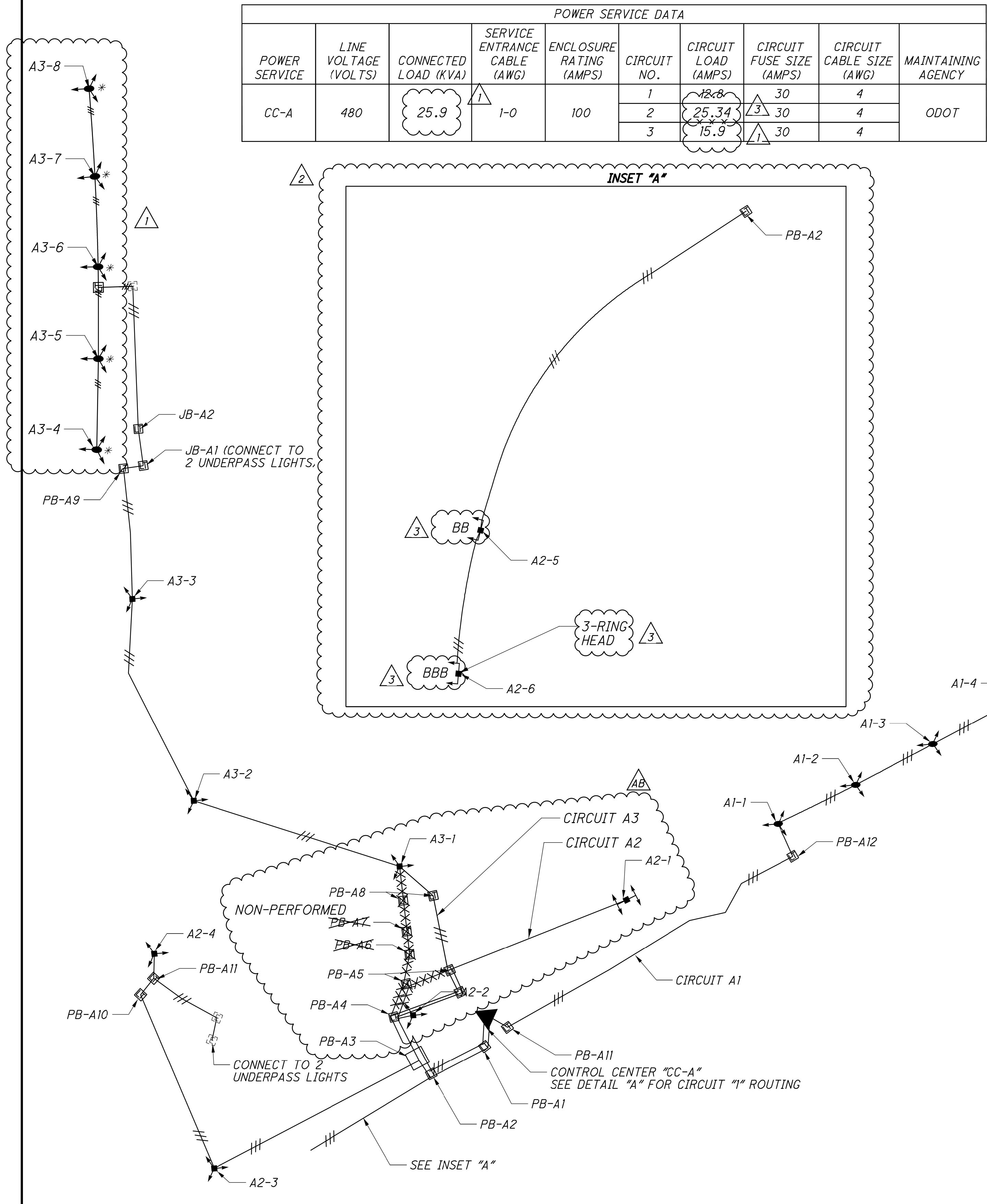
CALCULATED
EMS

CHECKED
SMM

TOWER ELEVATION

SUM-76 / 77 / 8 -
8.24 / 9.74 / 0.00

33
39

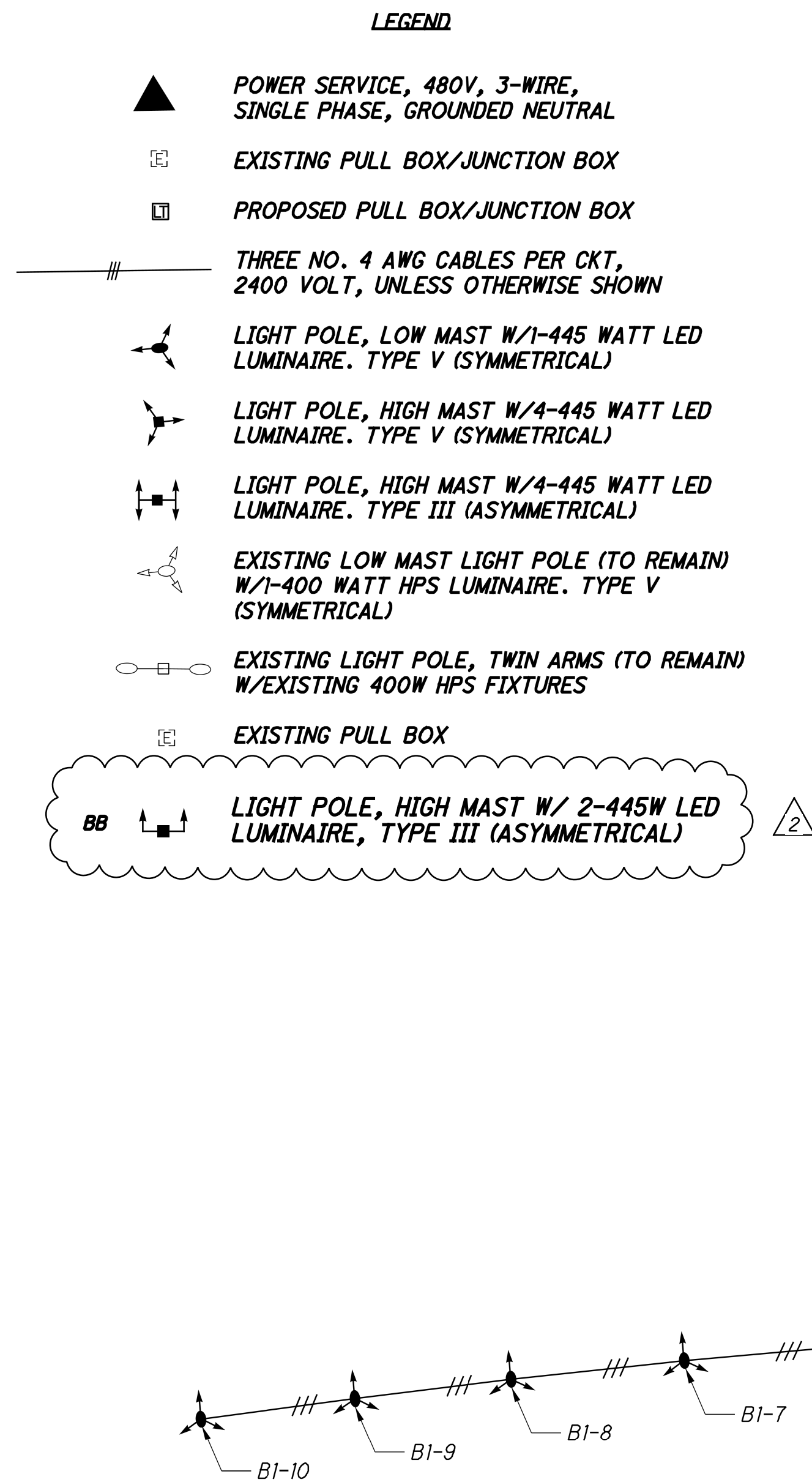


Voltage: 480 Wire Factor Used (Two - No. 4 AWG Wires): 0.62 ohms/mft/1000 Ckt: '3'

Section			Amperes		Ampere-Feet	AWG	Voltage Drop		% Drop	At Point
From	To	Design Feet	At Point	Accum.			In Section	Accum.		
A3-8	A3-7	190	0.89	0.89	170	4	0.11	14.85	3.09	A3-8
A3-7	A3-6	195	0.89	1.79	349	4	0.22	14.75	3.07	A3-7
A3-6	JB-A3	52	0.89	2.68	139	4	0.09	14.53	3.03	A3-6
A3-4	A3-5	196	0.89	0.89	175	4	0.11	14.73	3.07	A3-4
A3-5	JB-A3	156	0.89	1.79	279	4	0.17	14.62	3.05	A3-5
JB-A3	PB-EX	80	0.00	4.47	358	4	0.22	14.44	3.01	JB-A3
PB-EX	JB-A2	303	0.00	4.47	1,354	4	0.84	14.22	2.96	PB-EX
JB-A2	JB-A1	87	0.00	4.47	389	4	0.24	13.38	2.79	JB-A2
JB-A1	PB-A9	51	0.27	4.74	242	4	0.15	13.14	2.74	JB-A1
PB-A9	A3-3	277	0.00	4.74	1,312	4	0.81	12.99	2.71	PB-A9
A3-3	A3-2	454	3.71	8.45	3,834	4	2.38	12.18	2.54	A3-3
A3-2	A3-1	451	3.71	12.15	5,482	4	3.40	9.80	2.04	A3-2
A3-1	PB-A8	81	3.71	15.86	1,285	4	0.80	6.40	1.33	A3-1
PB-A8	PB-A7	73	0.00	15.86	1,158	4	0.72	5.61	1.17	PB-A8
PB-A7	PB-A6	58	0.00	15.86	920	4	0.57	4.89	1.02	PB-A7
PB-A6	PB-A5	70	0.00	15.86	1,110	4	0.69	4.32	0.90	PB-A6
PB-A5	PB-A4	74	0.00	15.86	1,174	4	0.73	3.63	0.76	PB-A5
PB-A4	PB-A3	99	0.00	15.86	1,570	4	0.97	2.90	0.60	PB-A4
PB-A3	PB-A2	41	0.00	15.86	650	4	0.40	1.93	0.40	PB-A3
PB-A2	PB-A1	131	0.00	15.86	2,078	4	1.29	1.52	0.32	PB-A2
PB-A1	CC-A	24	0.00	15.86	381	4	0.24	0.24	0.05	PB-A1
			SUM	15.86	AMPS PROPOSED LOAD			MAX %	3.09	
				7.61	Kva					

ISSUE RECORD:

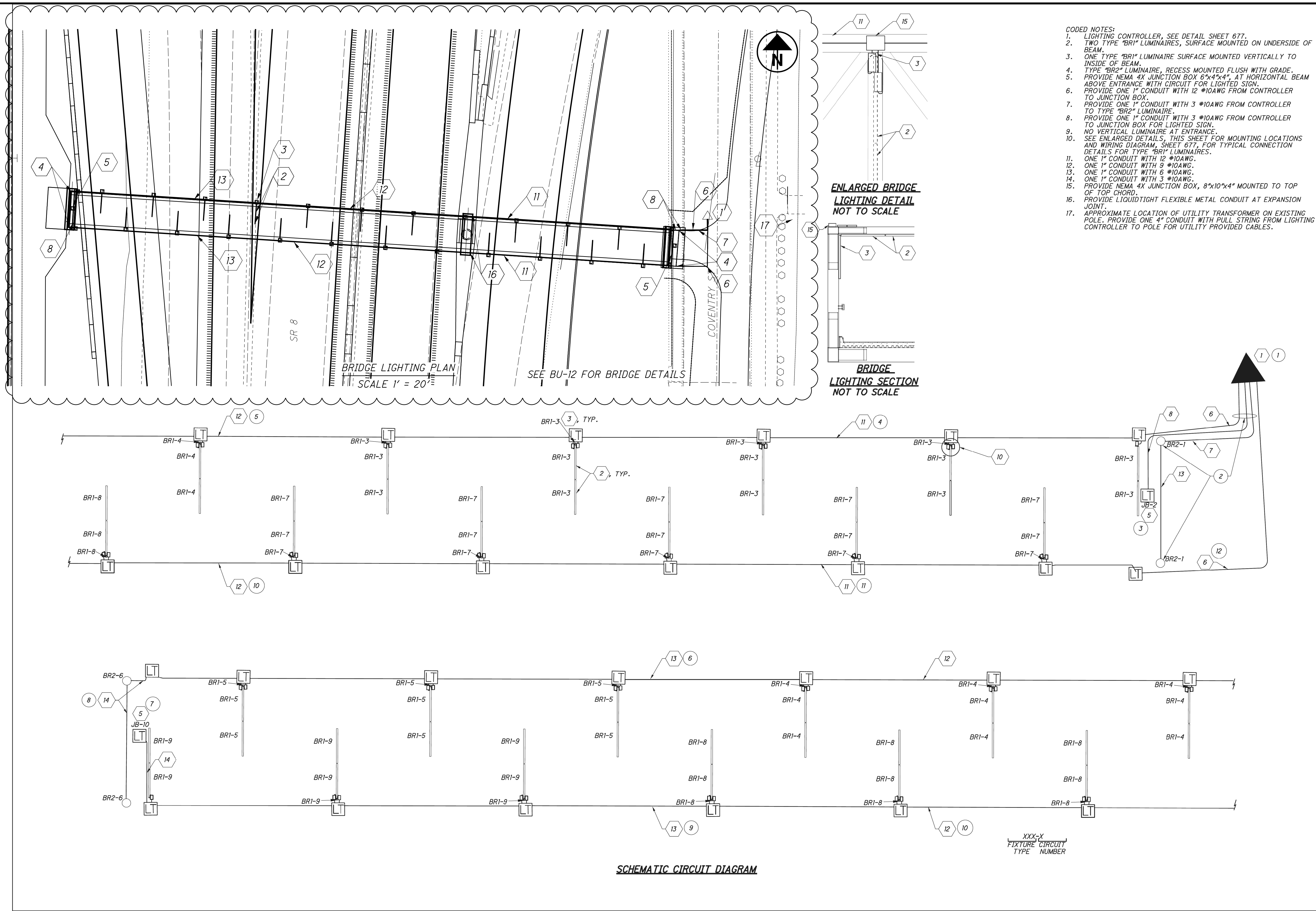
NO.	DATE	DESCRIPTION
1	4/6/22	REVISED FROM SUM-76/77/8-8.24/9.74/0.00
2	11/26/24	INSET "A" DETAIL REVISION
3	2/14/25	INSET "A" DETAIL REVISION 2
AB	2/23/26	CIRCUIT REROUTE



POWER SERVICE DATA									
POWER SERVICE	LINE VOLTAGE (VOLTS)	CONNECTED LOAD (KVA)	SERVICE ENTRANCE CABLE (AWG)	ENCLOSURE RATING (AMPS)	CIRCUIT NO.	CIRCUIT LOAD (AMPS)	CIRCUIT FUSE SIZE (AMPS)	CIRCUIT CABLE SIZE (AWG)	MAINTAINING AGENCY
CC-B	480	17.34	1-0	100	1	11.13	30	4	ODOT
					2	25.0	40	2	
					SPARE	-	-	-	

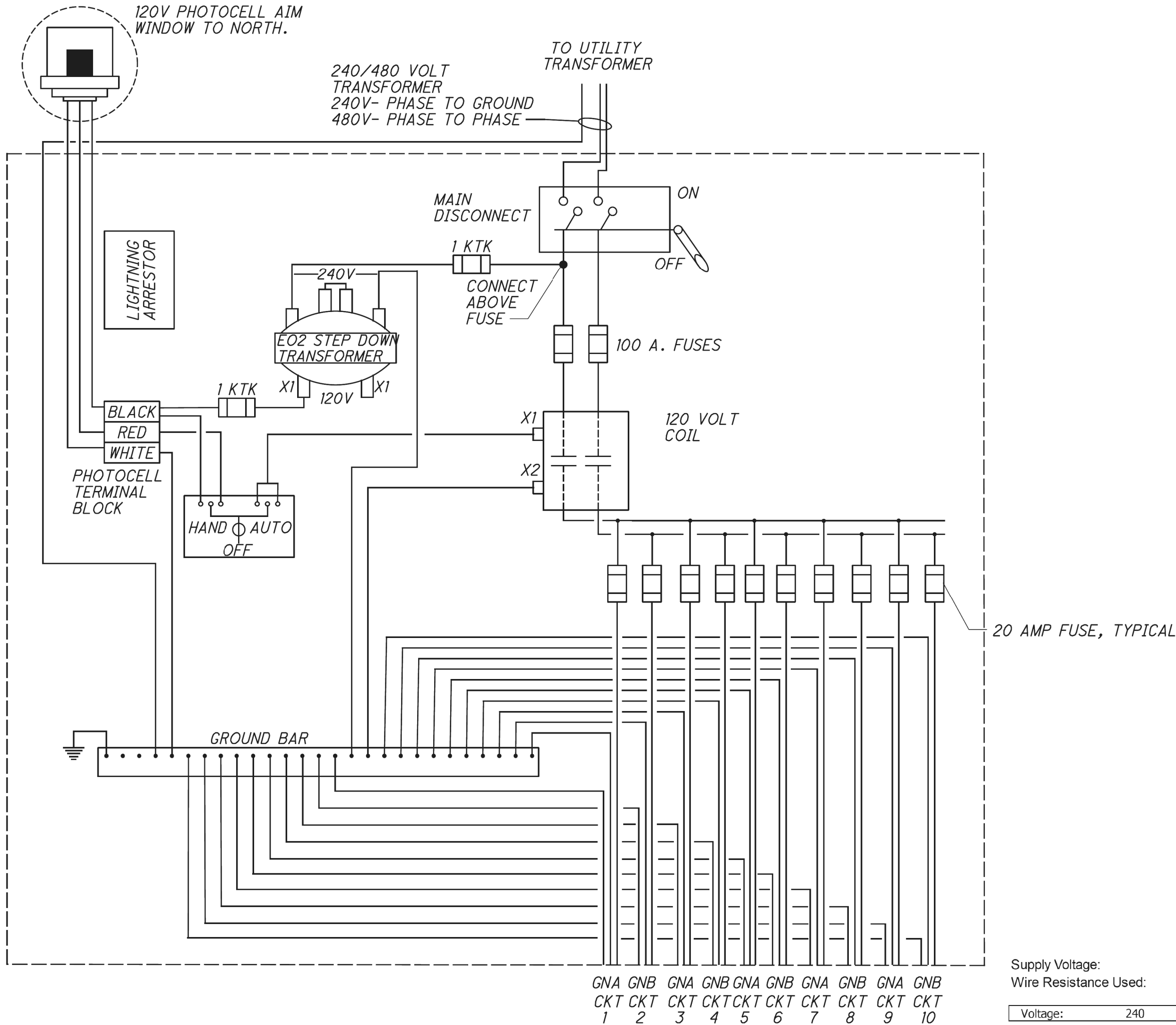
ISSUE RECORD:		
NO.	DATE	DESCRIPTION
1	11/7/24	LIGHTING PLAN WIRING REVISION
2	2/14/25	LIGHTING PLAN WIRING REVISION 2
AB	3/2/26	CIRCUIT REROUTE

[illegible]

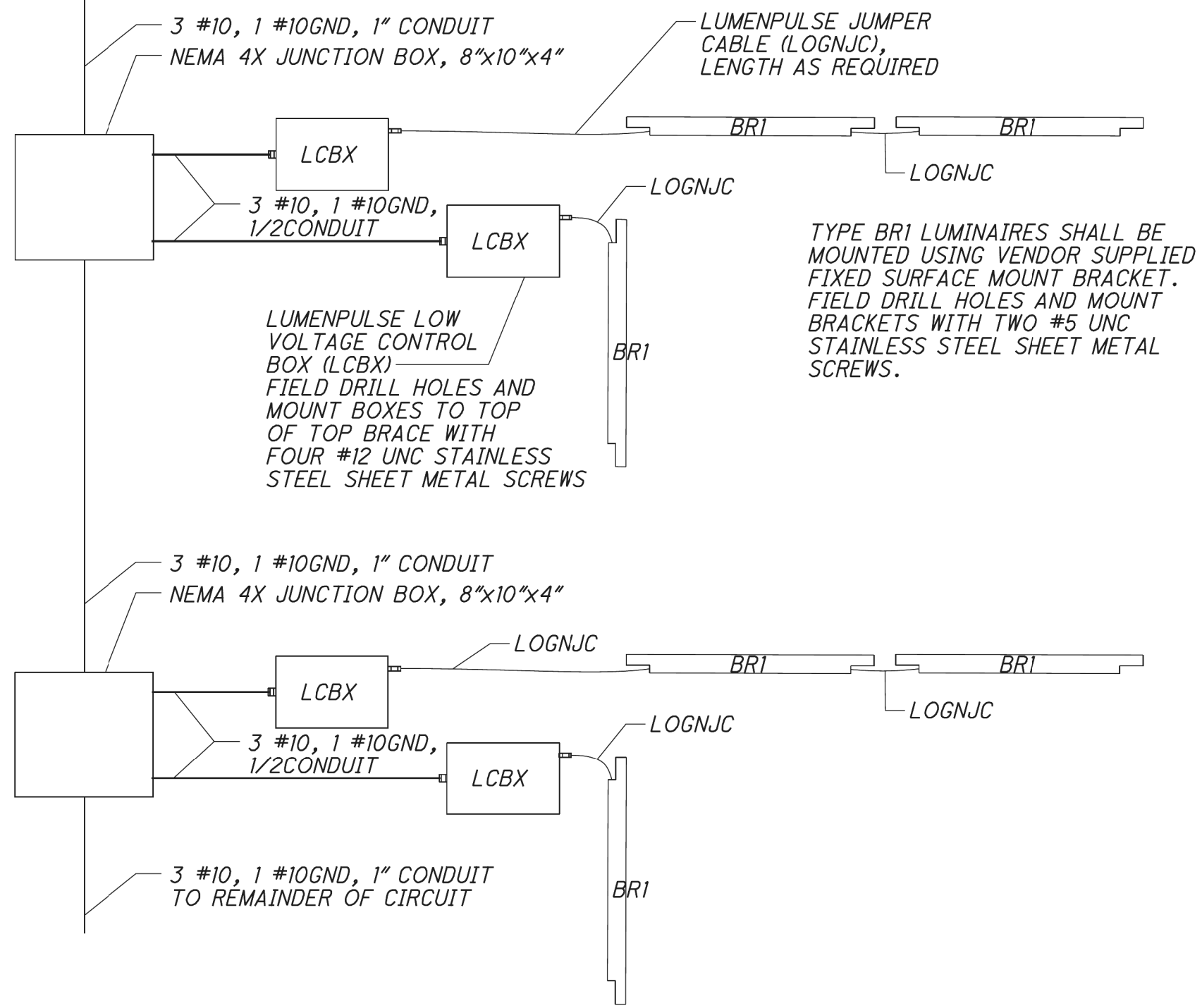


ISSUE RECORD:		
NO.	DATE	DESCRIPTION
1	4/6/22	REVISED FROM SUM-76/77/8-8.24/9/74/0.00

[illegible]



1 PROPOSED 240/480V 1Ø 3-WIRE WITH GROUND LIGHTING POWER SERVICE SCHEMATIC WIRING DIAGRAM
SCALE: NONE



2 TYPICAL WIRING DIAGRAM, TYPE "BR1" LUMINAIRES
SCALE: NONE

VOLTAGE DROP CALCULATIONS											
Supply Voltage:			240			No. of Wires for Calculation Purposes:			3		
Wire Resistance Used:			No.			10			AWG.		
Voltage:			240			Wire Factor Used (Two - No. 10 AWG Wires):			2.40		
									ohms/mft/1000		
Circuit	Section		Design Feet	Amperes		Ampere-Feet	AWG	Voltage Drop		% Drop	At Point
	From	To		At Point	Accum.			In Section	Accum.		
1	Cntrl	BR2-1-1	25	0.09	0.18	5	10	0.01	0.02	0.01	BR2-1-1
		BR2-1-2	20	0.09	0.09	2	10	0.00	0.00	0.00	BR2-1-2
2	Cntrl	JB-2	25	0.42	0.42	10	10	0.03	0.03	0.01	JB-2
		JB-3-1	40	0.00	0.47	19	10	0.04	0.10	0.04	JB-3-1
3	JB-3-1	LCBX-3-1	1	0.07	0.47	0	10	0.00	0.06	0.02	LCBX-3-1
	JB-3-1	JB-3-2	20	0.00	0.40	8	10	0.02	0.05	0.02	JB-3-2
	JB-3-2	LCBX-3-2	1	0.07	0.40	0	10	0.00	0.03	0.01	LCBX-3-2
	JB-3-2	LCBX-3-3	2	0.03	0.33	1	10	0.00	0.03	0.01	LCBX-3-3
	JB-3-2	JB-3-3	20	0.00	0.30	6	10	0.01	0.03	0.01	JB-3-3
	JB-3-3	LCBX-3-4	1	0.07	0.30	0	10	0.00	0.02	0.01	LCBX-3-4
	JB-3-3	LCBX-3-5	2	0.03	0.23	0	10	0.00	0.02	0.01	LCBX-3-5
	JB-3-3	JB-3-4	20	0.00	0.20	4	10	0.01	0.02	0.01	JB-3-4
	JB-3-4	LCBX-3-6	1	0.07	0.20	0	10	0.00	0.01	0.00	LCBX-3-6
	JB-3-4	LCBX-3-7	2	0.03	0.13	0	10	0.00	0.01	0.00	LCBX-3-7
	JB-3-4	JB-3-5	20	0.00	0.10	2	10	0.00	0.01	0.00	JB-3-5
	JB-3-5	LCBX-3-8	1	0.07	0.10	0	10	0.00	0.00	0.00	LCBX-3-8
	JB-3-5	LCBX-3-9	2	0.03	0.03	0	10	0.00	0.00	0.00	LCBX-3-9
4	Cntrl	JB-4-1	140	0.00	0.27	37	10	0.09	0.11	0.05	JB-4-1
		LCBX-4-1	1	0.07	0.27	0	10	0.00	0.02	0.01	LCBX-4-1
		JB-4-1	2	0.03	0.20	0	10	0.00	0.02	0.01	LCBX-4-2
		JB-4-1	20	0.00	0.17	3	10	0.01	0.02	0.01	JB-4-2
		LCBX-4-3	1	0.07	0.17	0	10	0.00	0.01	0.00	LCBX-4-3
		LCBX-4-4	2	0.03	0.10	0	10	0.00	0.01	0.00	LCBX-4-4
5	Cntrl	JB-4-2	20	0.00	0.07	1	10	0.00	0.01	0.00	JB-4-3
		LCBX-4-5	1	0.07	0.07	0	10	0.00	0.01	0.00	LCBX-4-5
		JB-5-1	220	0.00	0.27	59	10	0.14	0.16	0.07	JB-5-1
		LCBX-5-1	1	0.07	0.27	0	10	0.00	0.02	0.01	LCBX-5-1
		JB-5-1	2	0.00	0.20	0	10	0.00	0.02	0.01	LCBX-5-2
		JB-5-1	20	0.07	0.20	4	10	0.01	0.02	0.01	JB-5-2
		LCBX-5-3	1	0.03	0.13	0	10	0.00	0.01	0.00	LCBX-5-3
		LCBX-5-4	2	0.00	0.10	0	10	0.00	0.01	0.00	LCBX-5-4
6	Cntrl	JB-5-2	20	0.00	0.10	2	10	0.00	0.01	0.00	JB-5-3
		JB-5-3	1	0.07	0.10	0	10	0.00	0.00	0.00	LCBX-5-5
		LCBX-5-5	2	0.03	0.03	0	10	0.00	0.00	0.00	LCBX-5-5
		LCBX-5-6	2	0.03	0.03	0	10	0.00	0.00	0.00	LCBX-5-6
6	Cntrl	BR2-6-1	300	0.00	0.42	125	10	0.30	0.32	0.13	BR2-6-1
		BR2-6-2	20	0.42	0.42	8	10	0.02	0.02	0.01	BR2-6-2

VOLTAGE DROP CALCULATIONS (cont'd)											
Supply Voltage:			240			No. of Wires for Calculation Purposes:			3		
Wire Resistance Used:			No.			10			AWG.		
Voltage:			240			Wire Factor Used (Two - No. 10 AWG Wires):			2.40		
									ohms/mft/1000		
Circuit	Section		Design Feet	Amperes		Ampere-Feet	AWG	Voltage Drop		% Drop	At Point
	From	To		At Point	Accum.			In Section	Accum.		
7	Cntrl	JB-7-1	60	0.00	0.50	30	10	0.07	0.15	0.06	JB-7-1
		JB-7-1	15	0.00	0.50	8	10	0.02	0.08	0.03	JB-7-2
		LCBX-7-1	1	0.07	0.50	1	10	0.00	0.06	0.02	LCBX-7-1
		JB-7-2	2	0.03	0.43	1	10	0.00	0.06	0.02	LCBX-7-2
		JB-7-2	20	0.00	0.40	8	10	0.02	0.05	0.02	JB-7-3
		LCBX-7-3	1	0.07	0.40	0	10	0.00	0.03	0.01	LCBX-7-3
		JB-7-3	2	0.03	0.33	1	10	0.00	0.03	0.01	LCBX-7-4
		JB-7-4	20	0.00	0.30	6	10	0.01	0.03	0.01	JB-7-4
		LCBX-7-5	1	0.07	0.30	0	10	0.00	0.02	0.01	LCBX-7-5
		JB-7-4	2	0.03	0.23	0	10	0.00	0.02	0.01	LCBX-7-6
		JB-7-4	20	0.00	0.20	4	10	0.01	0.02	0.01	JB-7-5
		LCBX-7-7	1	0.07	0.20	0	10	0.00	0.01	0.00	LCBX-7-7
		JB-7-5	2	0.03	0.13	0	10	0.00	0.01	0.00	LCBX-7-8
		JB-7-5	20	0.00	0.10	2	10	0.00	0.01	0.00	JB-7-6
8	Cntrl	JB-8-1	175	0.00	0.27	47	10	0.11	0.13	0.06	JB-8-1
		LCBX-8-1	1	0.07	0.27	0	10	0.00	0.02	0.01	LCBX-8-1
		JB-8-1	2	0.03	0.20	0	10	0.00	0.02	0.01	LCBX-8-2
		JB-8-2	20	0.00	0.17	3	10	0.01	0.02	0.01	JB-8-2
		LCBX-8-3	1	0.07	0.17	0	10	0.00	0.01	0.00	LCBX-8-3
9	Cntrl	JB-8-2	2	0.03	0.10	0	10	0.00	0.01	0.00	LCBX-8-4
		JB-8-2	20	0.00	0.07	1	10	0.00	0.01	0.00	JB-8-3
		LCBX-8-5	1	0.07	0.07	0	10	0.00	0.01	0.00	LCBX-8-5
		JB-9-1	255	0.00	0.27	68	10	0.16	0.18	0.08	JB-9-1
9	Cntrl	LCBX-9-1	1	0.07	0.27	0	10	0.00	0.02	0.01	LCBX-9-1
		JB-9-1	2	0.00	0.20	0	10	0.00	0.02	0.01	LCBX-9-2
		JB-9-1	20	0.07	0.20	4	10	0.01	0.02	0.01	JB-9-2
		LCBX-9-3	1	0.03	0.13	0	10	0.00	0.01	0.00	LCBX-9-3
		JB-9-2	2	0.00	0.10	0	10	0.00	0.01	0.00	LCBX-9-4
		JB-9-2	20	0.00	0.10	2	10	0.00	0.01	0.00	JB-9-3
		LCBX-9-5	1	0.07	0.10	0	10	0.00	0.00	0.00	LCBX-9-5
		LCBX-9-6	2	0.03	0.03	0	10	0.00	0.00	0.00	LCBX-9-6
10	Cntrl	JB-10	305	0.42	0.42	127	10	0.31	0.31	0.13	JB-10

SUM-76 / 77 / 8
10.99 / 11.54 / 0.00

677
1022

BRIDGE LIGHTING DETAILS

CALCULATED
CMC
CHECKED
RJC

2026-09-10 - BU-37A - RECORD DRAWING PLANS

SUM-76 / 77 / 8 -
8.24 / 9.74 / 0.00

BRIDGE LIGHTING DETAILS

CALCULATED
EMS
CHECKED
SMM

ISSUE RECORD:

NO. DATE DESCRIPTION

39
39