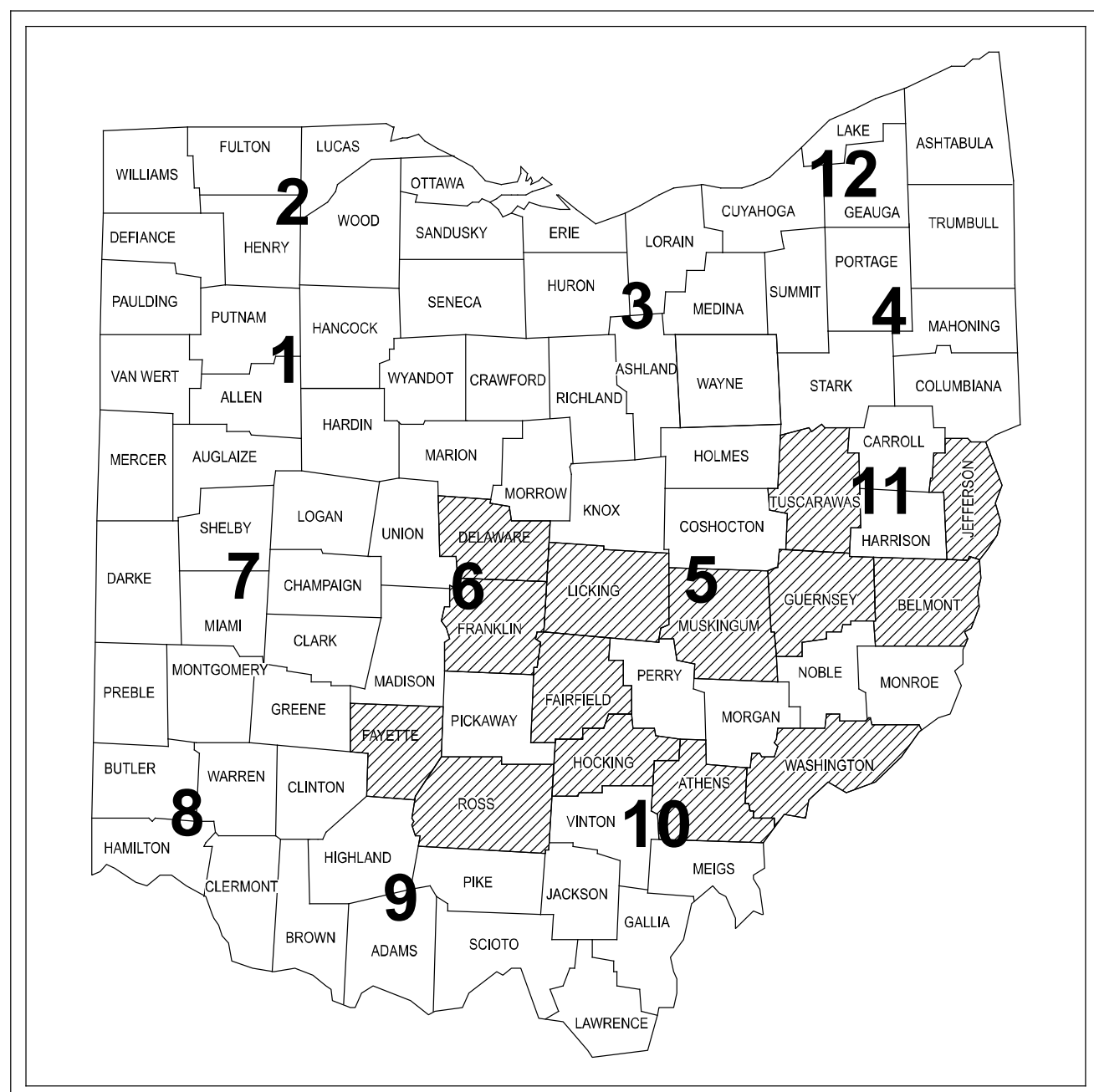


STATE OF OHIO DEPARTMENT OF TRANSPORTATION

Lighting Optimization SE Ohio

FAIRFIELD, FAYETTE, LICKING, GUERNSEY, MUSKINGHAM
FRANKLIN, ROSS, HOCKING, ATHENS, WASHINGTON
BELMONT, JEFFERSON, AND TUSCARWARWAS COUNTIES



LOCATION MAP

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FEDERAL PROJECT NUMBER

NON-FEDERAL

RAILROAD INVOLVEMENT

NONE

PROJECT DESCRIPTION

LIGHTING OPTIMIZATION AND UPGRADES FOR HIGH MAST AND LOW MAST LIGHTING UNITS IN DISTRICTS 5, 6, 9, 10, & 11. PROPOSED UPGRADES INCLUDE REPLACEMENT OF HIGH PRESSURE SODIUM FIXTURES WITH LED FIXTURES AND, IN SOME INSTANCES, REDUCING THE NUMBER OF FIXTURES REQUIRED ON HIGH MAST UNITS.

EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED AREA: N/A (MAINTENANCE)
ESTIMATED CONTRACTOR EARTH DISTURBED AREA: N/A (MAINTENANCE)
NOTICE OF INTENT EARTH DISTURBED AREA: NOI NOT REQUIRED

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.

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.

DESIGN DESIGNATION

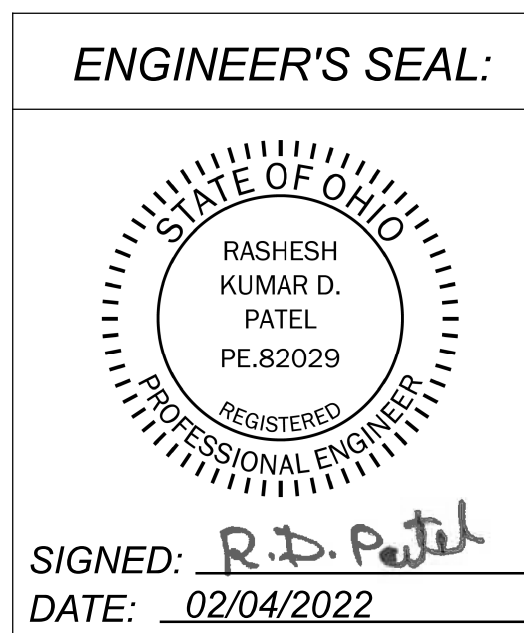
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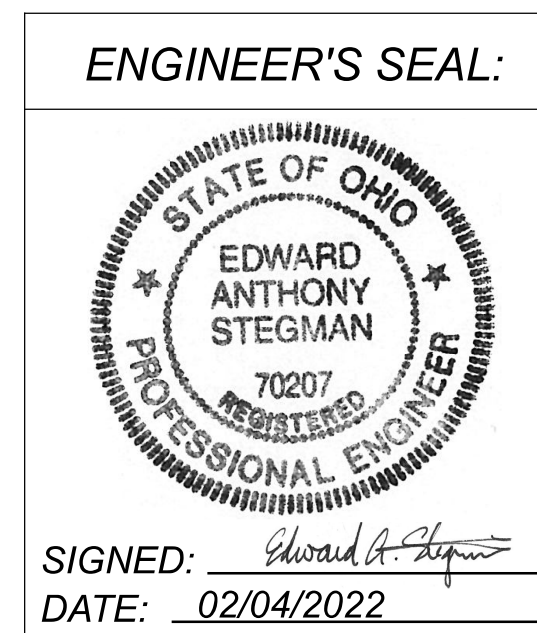
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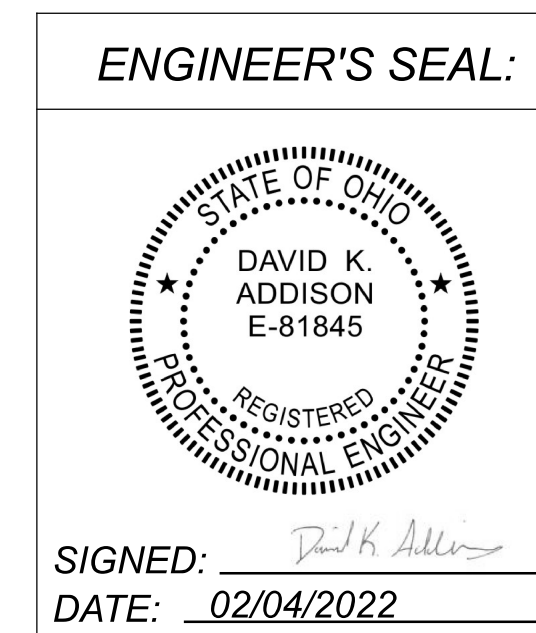
NONE REQUIRED



SIGNATURE AND SEAL APPLY TO SHEETS WITH SINGH & ASSOCIATES LOGO IN BORDER



SIGNATURE AND SEAL APPLY TO SHEETS WITH KZF DESIGN LOGO IN BORDER



SIGNATURE AND SEAL APPLY TO SHEETS WITH JOHNSON, MIRMIRAN, & THOMPSON INC. LOGO IN BORDER

APPROVED: *Jason Z. Stuyver*
DATE: 2/3/2022 DISTRICT 5 DEPUTY DIRECTOR

APPROVED: *GC*
DATE: 2/4/22 DISTRICT 6 DEPUTY DIRECTOR

APPROVED: *Michael J. ...*
DATE: 02/04/2022 DISTRICT 9 DEPUTY DIRECTOR

APPROVED: *Darla Miller*
DATE: 2/4/2022 DISTRICT 10 DEPUTY DIRECTOR

APPROVED: *Thomas D. Coay*
DATE: 2/4/2022 DISTRICT 11 DEPUTY DIRECTOR

APPROVED: *Jackie ...*
DATE: 3/21/22 DIRECTOR, DEPARTMENT OF TRANSPORTATION

STANDARD CONSTRUCTION DRAWINGS				SUPPLEMENTAL SPECIFICATIONS	SPECIAL PROVISIONS
HL-10.31	4/17/20			800	1/21/22
MT-95.30	7/19/19			813	10/19/18
MT-95.31	7/19/19			821	4/20/12
MT-95.32	4/19/19			832	10/19/18
MT-95.45	1/17/20			913	4/16/21
MT-95.60	4/19/19			921	4/20/12
MT-95.61	4/19/19				
MT-98.10	1/17/20				
MT-98.11	1/17/20				
MT-98.20	4/19/19				
MT-98.22	1/17/20				
MT-98.28	1/17/20				
MT-105.10	1/17/20				

UNDERGROUND UTILITIES
Contact Two Working Days Before You Dig

OHIO811.org
Before You Dig

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

LIGHTING TITLE SHEET

DESIGN AGENCY



DESIGNER

VN

REVIEWER

SG 01/07/22

PROJECT ID

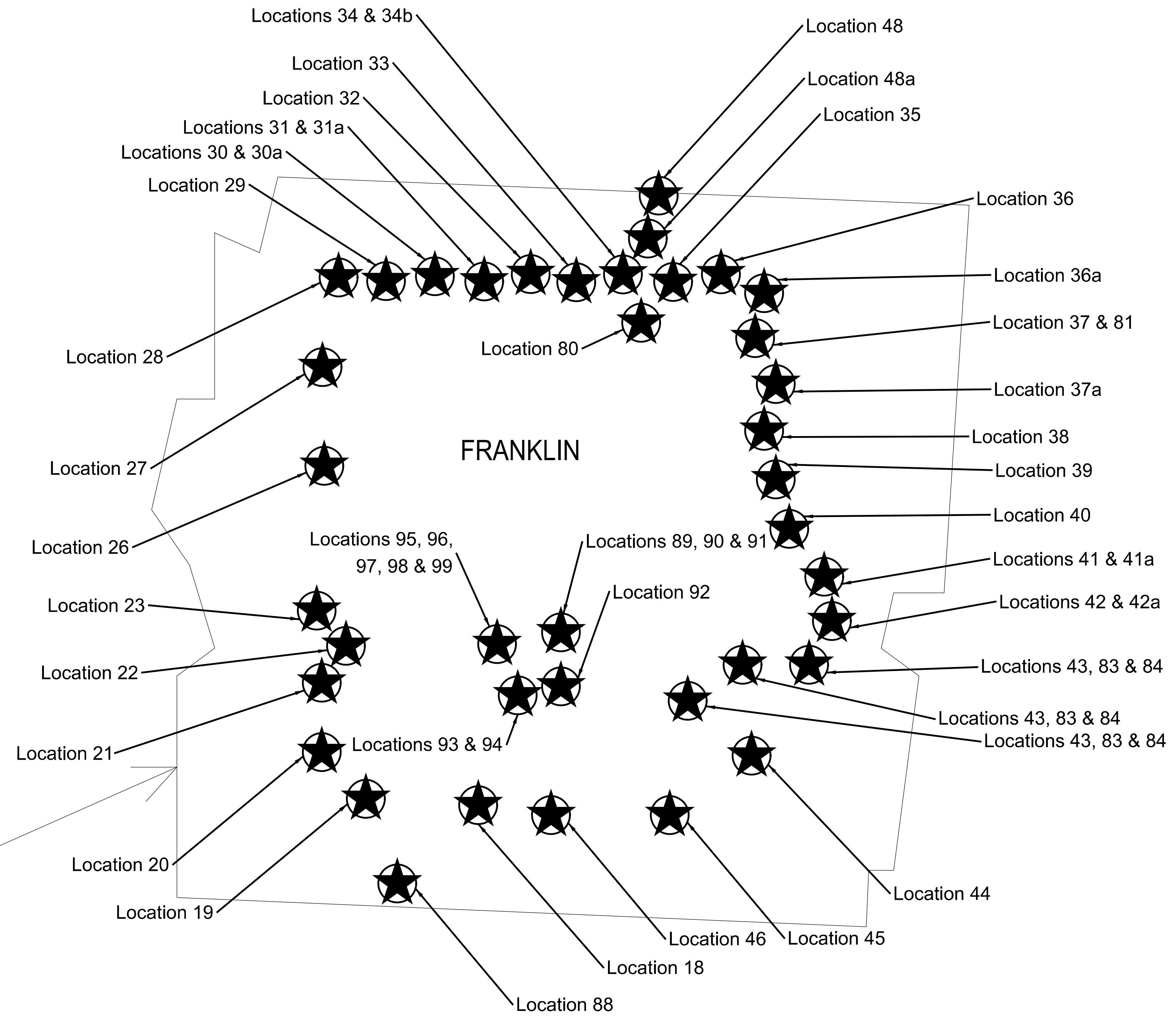
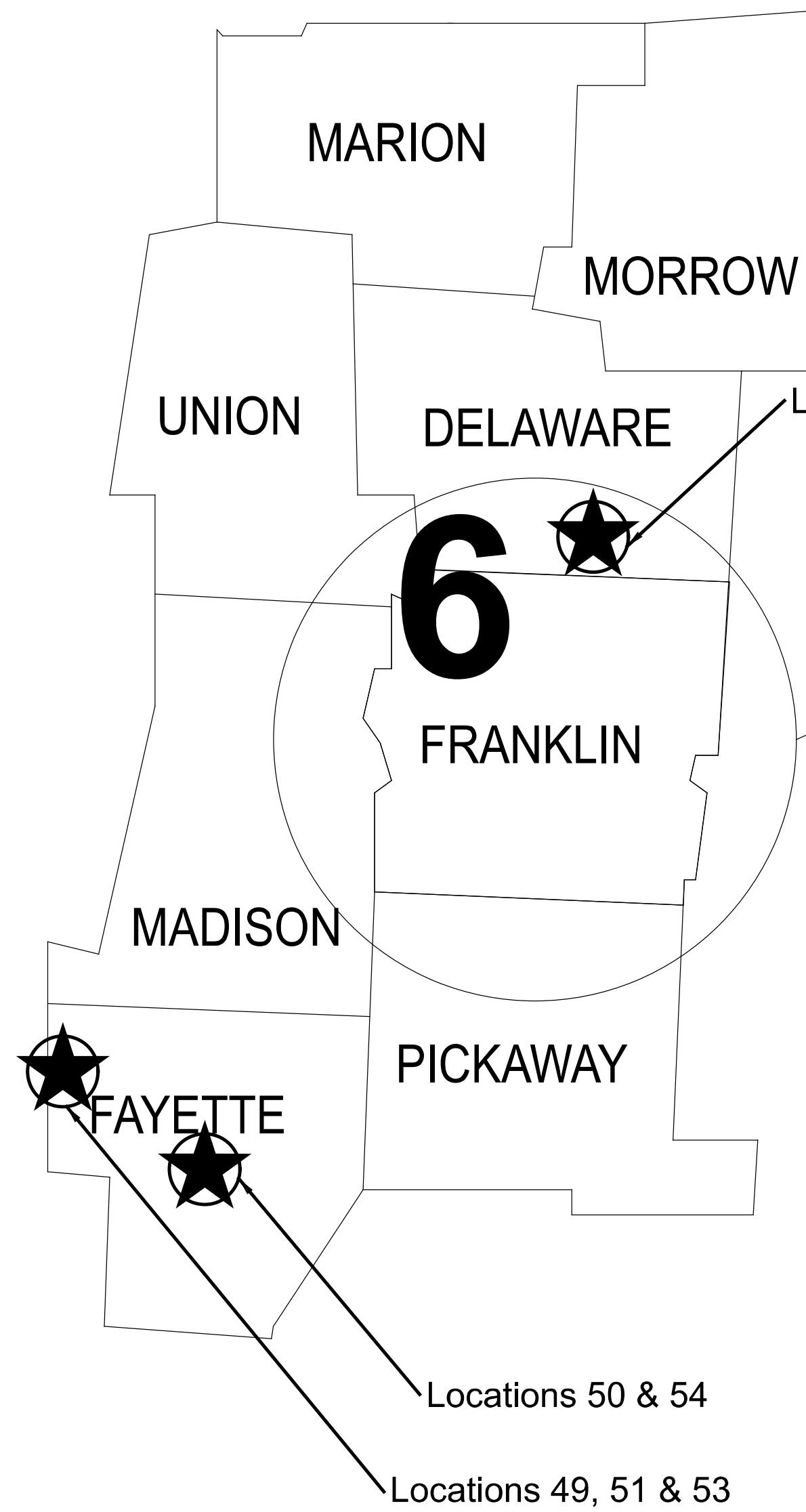
112676

SHEET TOTAL

P.1 197

Lighting Upgrade FY2021

MODEL: Sheet PAPER: 34x22 (in.) DATE: 2/4/2022 TIME: 3:40:06 PM USER: vnuñez pvc:\ohiodot-pw-bentley.com\ohiodot-pw-02\Documents\01 Active Projects_Statewide\Statewide\112676\6401-Engineering_Lighting\Sheets\112676_GT001.dgn



DESIGN AGENCY	
SINGH SINGH + ASSOCIATES INC CONSULTING ENGINEERS	
DESIGNER	
VN	
REVIEWER	
SG 03/11/22	
PROJECT ID	
112676	
SHEET	TOTAL
P.3	197

LUMINAIRE - HIGH MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 70-80K LUMENS 480V

SOLID STATE (LED) LUMINAIRES FOR HIGH MAST LIGHTING UNITS WITH TYPE V DISTRIBUTION SHALL BE 3000K COLOR TEMPERATURE.

GE: *MODEL: ERHM02_80VW730
HOLOPHANE: *MODEL: HMLLED3_PK4_30K

* OR EQUAL AS APPROVED BY THE ENGINEER.

LUMINAIRE - HIGH MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 60-69K LUMENS 480V

SOLID STATE (LED) LUMINAIRES FOR HIGH MAST LIGHTING UNITS WITH TYPE V DISTRIBUTION SHALL BE 3000K COLOR TEMPERATURE.

GE: *MODEL: ERHM02_60VW730
HOLOPHANE: *MODEL: HMLLED3 PK3 30K

* OR EQUAL AS APPROVED BY THE ENGINEER.

LUMINAIRE - HIGH MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 70-80K LUMENS 480V

SOLID STATE (LED) LUMINAIRES FOR HIGH MAST LIGHTING UNITS WITH TYPE III/IV DISTRIBUTION SHALL BE 3000K COLOR TEMPERATURE.

GE: *MODEL: ERHM02_70C3730
HOLOPHANE: *MODEL: HMLLED3 PK4 30K

* OR EQUAL AS APPROVED BY THE ENGINEER.

LUMINAIRE - HIGH MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 60-69K LUMENS 480V

SOLID STATE (LED) LUMINAIRES FOR HIGH MAST LIGHTING UNITS WITH TYPE V DISTRIBUTION SHALL BE 3000K COLOR TEMPERATURE.

GE: *MODEL: ERHM02_70C3730
HOLOPHANE: *MODEL: HMLLED3 PK4 30K

* OR EQUAL AS APPROVED BY THE ENGINEER.

LUMINAIRE - HIGH MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 50-59K LUMENS 480V

SOLID STATE (LED) LUMINAIRES FOR HIGH MAST LIGHTING UNITS WITH TYPE V DISTRIBUTION SHALL BE 3000K COLOR TEMPERATURE.

GE: *MODEL: ERHM02_60C3730
HOLOPHANE: *MODEL: HMLLED3 PK3 30K

* OR EQUAL AS APPROVED BY THE ENGINEER.

LUMINAIRE - LOW MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 42-47K LUMENS 480V

SOLID STATE (LED) LUMINAIRES FOR HIGH MAST LIGHTING UNITS WITH TYPE V DISTRIBUTION SHALL BE 3000K COLOR TEMPERATURE.

GE: *MODEL: ERHM02_50VW730
HOLOPHANE: *MODEL: HMLLED3 PK2 30K

* OR EQUAL AS APPROVED BY THE ENGINEER.

LUMINAIRE - LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 42-47K LUMENS 480V

SOLID STATE (LED) LUMINAIRES FOR HIGH MAST LIGHTING UNITS WITH TYPE V DISTRIBUTION SHALL BE 3000K COLOR TEMPERATURE.

GE: *MODEL: ERHM02_50VW730
HOLOPHANE: *MODEL: HMLLED3_PK2_30K

* OR EQUAL AS APPROVED BY THE ENGINEER.

LUMINAIRE - LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 60-69K LUMENS 480V

SOLID STATE (LED) LUMINAIRES FOR HIGH MAST LIGHTING UNITS WITH TYPE III/IV DISTRIBUTION SHALL BE 3000K COLOR TEMPERATURE.

GE: *MODEL: ERHM02_60VW730
HOLOPHANE: *MODEL: HMLLED3 PK3 30K

* OR EQUAL AS APPROVED BY THE ENGINEER.

LUMINAIRE - LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 33-41K LUMENS 480V

SOLID STATE (LED) LUMINAIRES FOR HIGH MAST LIGHTING UNITS WITH TYPE III/IV DISTRIBUTION SHALL BE 3000K COLOR TEMPERATURE.

GE: *MODEL: ERHM02_40C3730
HOLOPHANE: *MODEL: HMLLED3 PK2 30K

* OR EQUAL AS APPROVED BY THE ENGINEER.

LUMINAIRE - LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 28-32K LUMENS 480V

SOLID STATE (LED) LUMINAIRES FOR HIGH MAST LIGHTING UNITS WITH TYPE III/IV DISTRIBUTION SHALL BE 3000K COLOR TEMPERATURE.

GE: *MODEL: ERHM02_30C3730
HOLOPHANE: *MODEL: HMLLED3 PK1 30K

* OR EQUAL AS APPROVED BY THE ENGINEER.

LUMINAIRE - LOW MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 60-69K LUMENS 480V

SOLID STATE (LED) LUMINAIRES FOR HIGH MAST LIGHTING UNITS WITH TYPE V DISTRIBUTION SHALL BE 3000K COLOR TEMPERATURE.

GE: *MODEL: ERHM02_60VW730
HOLOPHANE: *MODEL: HMLLED3 PK3 30K

* OR EQUAL AS APPROVED BY THE ENGINEER.

LUMINAIRE REMOVED, AS PER PLAN

FOR EXISTING LUMINAIRES BEING REMOVED AND NOT REPLACED WITH A NEW LUMINAIRE OR COUNTERWEIGHT, THE CONTRACTOR SHALL REMOVE THE TENON AND ALL EXISTING WIRING FROM THE LUMINAIRE TO THE JUNCTION BOX. THE CONTRACTOR SHALL PLUG THE PUNCH OUT HOLE IN THE JUNCTION BOX WITH A RUBBER GROMMET TO SEAL THE JUNCTION BOX WHERE THE WIRE WAS LOCATED. THE WORK SHALL BE INCIDENTAL TO THE PAY ITEM 625, LUMINAIRE REMOVED, AS PER PLAN.

IF THE DISTRICT REQUESTS OR TENON IS NON-REMOVABLE (I.E. WELDED), THIS ITEM MAY BE NON-PERFORMED WITH THE CONTRACTOR LEAVING THE TENON AND BALLAST AS STATED IN "ITEM 625, LUMINAIRE MISC.: LUMINAIRE GLASS, REFLECTOR, AND SOCKET REMOVED". ALL QUANTITIES WILL BE ADJUSTED, AS DIRECTED BY THE ENGINEER.

GENERAL NOTE

ADJUSTMENTS OF TENONS (REMOVABLE ONLY) TO PLACE SYSTEM IN BALANCE PER HL-10.31 OR MANUFACTURER RECOMMENDATIONS IS INCIDENTAL TO INSTALLATION OF THE LUMINAIRE

EXISTING LED LUMINAIRES OR NON-FUNCTIONING LOWERING DEVICES

IF THE CONTRACTOR ENCOUNTERS LIGHT TOWERS/POLES WITH EXISTING LED LUMINAIRES, NON-FUNCTIONING LOWERING DEVICES, OR TOWERS/POLES INADVERTENTLY LOCATED INSIDE ANOTHER ACTIVE CONSTRUCTION SITE, THE SITUATION SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND DISTRICT LIGHTING PERSONAL BEFORE REPLACING ANY LUMINAIRES. AS DIRECTED BY THE ENGINEER, IF THE DISTRICT ELECTS TO NOT REPLACE, THE LED LUMINAIRE SHALL BE TURNED OVER TO THE DISTRICT AS "FURNISHED ONLY".

THE FOLLOWING PAY ITEMS SHALL BE USED FOR WORK AS DESCRIBED ABOVE AS WELL AS FOR ANY LIGHT TOWERS THAT ARE UNABLE TO BE LOWERED.

ITEM 625, LUMINAIRE, HIGH MAST SOLID STATE (LED) (FURNISH ONLY) – 187 EACH
ITEM 625, LUMINAIRE, LOW MAST SOLID STATE (LED) (FURNISH ONLY) – 24 EACH**LOWERING RINGS RAISED WHEN CONTRACTOR NOT ON SITE**

LOWERING RINGS ON HIGH MAST TOWERS LOCATED WITHIN 100 FEET OF THE TRAVELED LANES MUST BE RETURNED TO THE ELEVATED AND LOCKED POSITION BEFORE CONTRACTOR LEAVES THE SITE (E.G., OVERNIGHT AFTER CEASING WORK FOR THE DAY). RINGS FURTHER THAN 100 FEET MAY BE LEFT NEAR THE GROUND IF SAFELY PROPPED WITH A TEMPORARY CAGE, WHICH TYPICALLY IS CONSTRUCTED OF 2 X 4 WOOD BOARDS AND SPREADERS PLACED ON THE GROUND. SUCH CAGES SHOULD ALSO BE USED WHENEVER THE CONTRACTOR IS WORKING UNDER THE RING.

ITEM 625-LUMINAIRE MISC.: LUMINAIRE GLASS, REFLECTOR, AND SOCKET REMOVED

THIS ITEM CONSISTS OF REMOVING THE LOWER PORTION OF AN EXISTING HPS LUMINAIRE WHILE LEAVING THE BALLAST ENCLOSURE IN PLACE TO SERVE AS A COUNTERWEIGHT ON A LOWERING DEVICE RING WHEN UPGRADING ONE OR MORE OF THE EXISTING HPS LUMINAIRES TO SOLID-STATE (LED).

REMOVE THE GLASS (REFRACTOR), REFLECTOR, LAMP, LAMP SOCKET, LAMP SOCKET WIRES AND ANY OTHER PARTS THAT MAY PROTRUDE THROUGH THE BOTTOM OF THE BALLAST ENCLOSURE. REMOVE OR DISCONNECT THE TAP WIRING FROM THE JUNCTION BOX TO EACH HPS LUMINAIRE AND CAP EACH TAP WIRE WITH A WIRE NUT AND WRAP IN UL-LISTED ELECTRICAL TAPE.

LEAVE THE EXISTING BALLAST ENCLOSURE IN PLACE TO SERVE AS A COUNTERWEIGHT. DO NOT REMOVE THE BALLAST OR ANY INTERNAL PARTS FROM THE BALLAST ENCLOSURE. SEAL ANY OPENINGS CREATED IN THE BOTTOM OF THE BALLAST ENCLOSURE CREATED TO PREVENT INSECT AND BIRD ACCESS. USE SILICONE CAULK AND/OR LIGHTWEIGHT POLYMER PLUGS ("PUSH-PENNIES") TO FILL ANY ACCESS HOLES IN THE BOTTOM OF THE BALLAST ENCLOSURE. DO NOT FILL OPENINGS LARGER THAN 1/4-INCH WITH CAULK ALONE.

ANY MATERIAL REMOVED FROM THIS ITEM BECOMES THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF PROPERLY OFF SITE.

PAYMENT SHALL BE MADE AT THE UNIT PRICE BID OF EACH FOR ITEM 625-LUMINAIRE MISC.: LUMINAIRE GLASS, REFLECTOR, AND SOCKET REMOVED WHICH SHALL BE FULL COMPENSATION FOR ALL LABOR, MATERIALS AND INCIDENTALS NECESSARY TO COMPLETE THIS ITEM OF WORK.

CONTINGENCY QUANTITIES

THE CONTRACTOR SHALL NOT ORDER MATERIALS OR PERFORM WORK FOR THE ITEMS DESIGNATED BY PLAN NOTE TO BE USED "AS DIRECTED BY THE ENGINEER" UNLESS AUTHORIZED BY THE ENGINEER. THE ACTUAL WORK LOCATIONS AND QUANTITIES USED FOR SUCH ITEMS SHALL BE INCORPORATED INTO THE FINAL CHANGE ORDER GOVERNING COMPLETION OF THE PROJECT.

DESIGN AGENCY

SINGH
SINGH & ASSOCIATES, INC.
CONSULTING ENGINEERS

DESIGNER

VN

REVIEWER

SG 03/11/22

PROJECT ID

112676

SHEET TOTAL

P.7 197

MODEL: Sheet PAPER SIZE: 34x22 (in.) DATE: 3/14/2022 TIME: 12:43:11 PM USER: vnunez
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ITEM 614, MAINTAINING TRAFFIC

A MINIMUM OF TWO LANES OF TRAFFIC IN EACH DIRECTION SHALL BE MAINTAINED AT ALL TIMES ON 4-LANE ROADWAYS EXCLUDING THE CLOSURE TIMES STATED IN THE LANE VALUE CONTRACT TABLE BELOW.

A MINIMUM OF ONE LANE OF TRAFFIC IN EACH DIRECTION SHALL BE MAINTAINED AT ALL TIMES ON 2-LANE ROADWAYS.

ALL INTERCHANGE RAMPS SHALL REMAIN OPEN AND TRAFFIC MAINTAINED DURING CONSTRUCTION.

LANE VALUE CONTRACT TABLE

LOCATION	CRITICAL WORK: TIME WHEN ONE (1) LANE MAY BE CLOSED	TIME UNIT	DISINCENTIVE (\$ PER TIME UNIT)
ALL 4-LANE ROUTES	HTTP://PLCM.DOT.STATE.OH.US	15 MIN.	\$2,500

THE PERMITTED CLOSURE TIMES LISTED IN THE LANE VALUE CONTRACT TABLE ABOVE WILL BE IN EFFECT 14 CALENDAR DAYS PRIOR TO THE BID LETTING DATE FOR THIS PROJECT. NO WORK WITHIN ACTIVE TRAVEL LANES OR WHICH WILL SLOW TRAFFIC IS PERMITTED AT ANY OTHER TIMES.

LENGTH AND DURATION OF LANE CLOSURES AND RESTRICTIONS SHALL BE AT THE APPROVAL OF THE ENGINEER. IT IS THE INTENT TO MINIMIZE THE IMPACT TO THE TRAVELING PUBLIC. LANE CLOSURES OR RESTRICTIONS OVER SEGMENTS OF THE PROJECT, IN WHICH NO WORK IS ANTICIPATED WITHIN A REASONABLE TIME FRAME, AS DETERMINED BY THE ENGINEER, SHALL NOT BE PERMITTED. THE LEVEL OF UTILIZATION OF MAINTENANCE OF TRAFFIC DEVICES SHALL BE COMMENSURATE WITH THE WORK IN PROGRESS.

THE CONTRACTOR WILL HAVE ON SITE AND IN WORKING AND OR SUITABLE CONDITION; ALL EQUIPMENT, TOOLS, LABORERS, LEO'S, TRAFFIC CONTROL DEVICES AND INCIDENTALS NECESSARY TO EFFICIENTLY PERFORM THE CLOSURE BEFORE INITIALIZING THE LANE CLOSURE.

ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH CMS 614 AND OTHER APPLICABLE PORTIONS OF THE SPECIFICATIONS, AS WELL AS THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC, UNLESS SEPARATELY ITEMIZED IN THE PLAN.

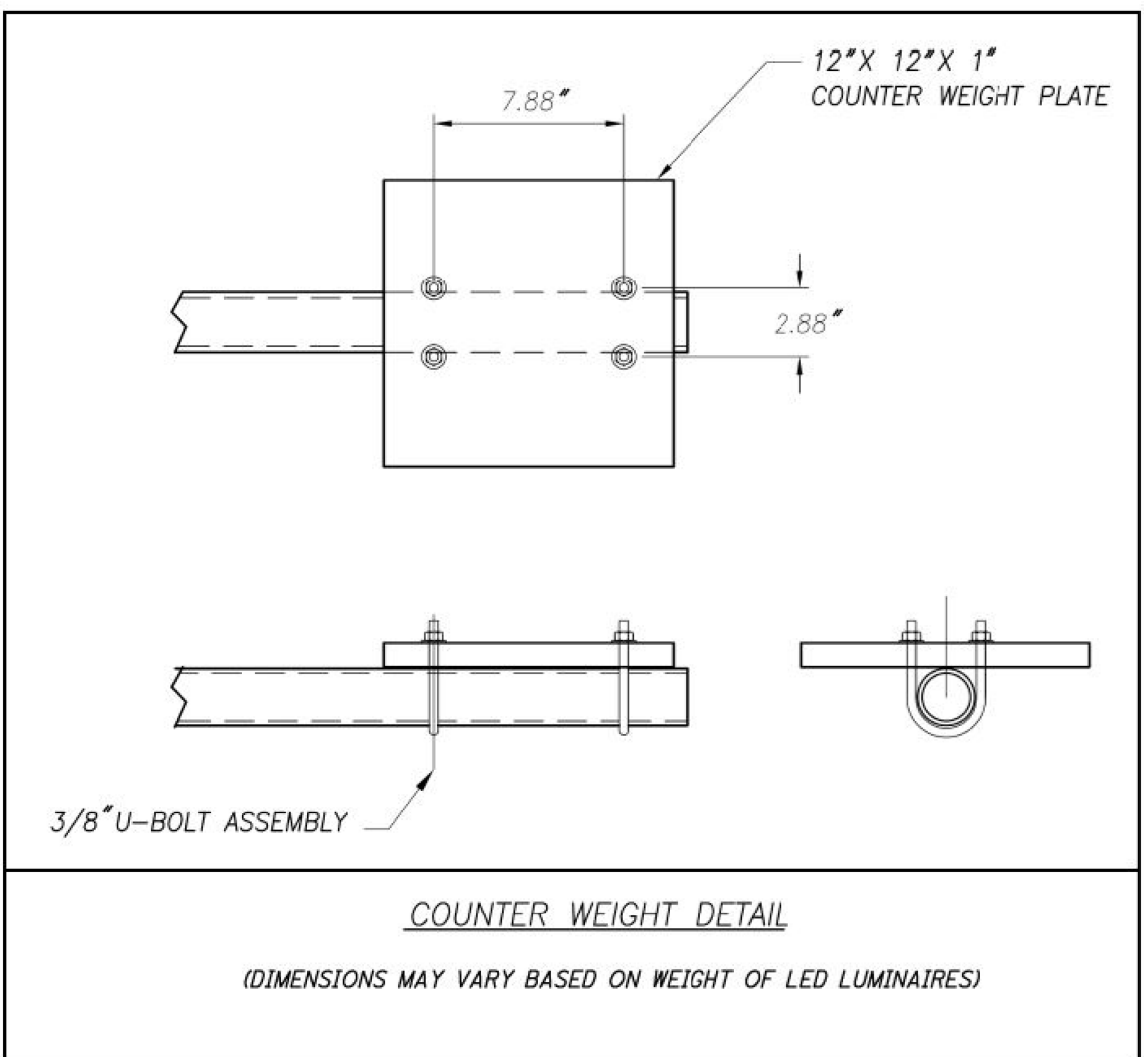
LUMINAIRE MISC.: COUNTERWEIGHT, HIGH MAST, AS PER PLAN

ANY LIGHT TOWERS/POLES THE CONTRACTOR ENCOUNTERS THAT CANNOT BE ADEQUATELY BALANCED USING THE METHOD OF LEAVING THE BALLAST ENCLOSURE IN PLACE, AS DESCRIBED ELSEWHERE IN THESE PLANS, BRING THIS TO THE ATTENTION OF THE ENGINEER. AS DIRECTED BY THE ENGINEER, INSTALL COUNTERWEIGHTS AS RECOMMENDED BY THE LUMINAIRE RING MANUFACTURER OR AN APPROVED EQUAL.

WHERE ITEMIZED IN THIS PLAN, COUNTERWEIGHTS SHALL BE FABRICATED AND SUPPLIED PER THE DETAILS SHOWN BELOW. THE CONTRACTOR SHALL VERIFY THE WEIGHT OF THE PROPOSED LED LUMINAIRES THAT ARE TO BE INSTALLED TO PROPERLY SIZE THE COUNTERWEIGHTS THAT ARE TO BE ADDED TO THE LUMINAIRE MOUNTING TENONS.

FOR EXISTING LUMINAIRES BEING REMOVED AND NOT REPLACED WITH A NEW LUMINAIRE BUT WILL HAVE A COUNTERWEIGHT INSTALLED IF INDICATED IN THE PLANS, THE CONTRACTOR SHALL KEEP THE TENON BUT REMOVE ALL EXISTING WIRING FROM THE LUMINAIRE TO THE JUNCTION BOX. THE TENON WILL BE CAPPED WITH A GALVANIZED STEEL PIPE CAP, THREADED OR SET-SCREW SECURED. THE CONTRACTOR SHALL PLUG THE PUNCH OUT HOLE IN THE JUNCTION BOX WITH A RUBBER GROMMET TO SEAL THE JUNCTION BOX WHERE THE WIRE WAS LOCATED.

THE FOLLOWING PAY ITEM SHALL BE USED FOR WORK AS DESCRIBED ABOVE.
 ITEM 625, LUMINAIRE, MISC.: COUNTERWEIGHT, HIGH MAST, AS PER PLAN – 85 EACH



LANES OPEN DURING HOLIDAYS OR SPECIAL EVENTS

NO WORK SHALL BE PERFORMED AND ALL EXISTING LANES OF ROUTES LISTED IN THE LANE VALUE CONTRACT TABLE SHALL BE OPENED TO TRAFFIC DURING THE FOLLOWING DESIGNATED HOLIDAYS:

EASTER, MEMORIAL DAY, FOURTH OF JULY, LABOR DAY, THANKSGIVING, CHRISTMAS, AND NEW YEARS

THE PERIOD OF TIME THAT THE LANES ARE TO BE OPEN DEPENDS ON THE DAY OF THE WEEK ON WHICH THE HOLIDAY OR EVENT FALLS.

THE FOLLOWING SCHEDULE SHALL BE USED TO DETERMINE THIS PERIOD:

DAY OF WEEK	TIME ALL LANES MUST BE OPEN TO TRAFFIC
SUNDAY	12:00N FRIDAY THROUGH 6:00AM MONDAY
MONDAY	12:00N FRIDAY THROUGH 6:00AM TUESDAY
TUESDAY	12:00N MONDAY THROUGH 6:00AM WEDNESDAY
WEDNESDAY	12:00N TUESDAY THROUGH 6:00AM THURSDAY
THURSDAY	12:00N WEDNESDAY THROUGH 6:00AM FRIDAY
THURSDAY THANKSGIVING	6:00AM WEDNESDAY THROUGH 6:00AM MONDAY
FRIDAY	12:00N THURSDAY THROUGH 6:00AM MONDAY
SATURDAY	12:00N FRIDAY THROUGH 6:00AM MONDAY

NOTIFICATION OF ROAD CLOSURE OR RESTRICTION

THE CONTRACTOR WILL ADVISE THE PROJECT ENGINEER A MINIMUM OF TWENTY-ONE (21) DAYS PRIOR TO THE FOLLOWING: THE START OF CONSTRUCTION ACTIVITIES, LANE RESTRICTIONS, LANE CLOSURES, AND OR ROAD CLOSURES. THE PROJECT ENGINEER WILL FORWARD THIS INFORMATION TO THE FOLLOWING:

DISTRICT PUBLIC INFORMATION OFFICER(S) (PIO) BY EMAIL
 D05.PIO@DOT.STATE.OH.US D06.PIO@DOT.STATE.OH.US
 D09.PIO@DOT.STATE.OH.US D10.PIO@DOT.STATE.OH.US
 D11.PIO@DOT.STATE.OH.US

CENTRAL OFFICE SPECIAL HAUL PERMITS SECTION BY FAX AT (614) 728-4099 OR EMAIL AT HAULING.PERMITS@DOT.STATE.OH.US

THE PIO WILL, IN TURN, NOTIFY THE PUBLIC, THE LOCAL EMERGENCY SERVICES, AFFECTED SCHOOLS AND BUSINESSES, AND ANY OTHER IMPACTED LOCAL PUBLIC AGENCY OF ANY OF THE ABOVE- MENTIONED ITEMS, VIA MEDIA SOURCES.

ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE

USE OF LAW ENFORCEMENT OFFICERS (LEOS) BY CONTRACTORS OTHER THAN THE USES SPECIFIED IN THIS NOTE WILL NOT BE PERMITTED AT PROJECT COST. LEOS SHOULD NOT BE USED WHERE THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (OMUTCD) INTENDS THAT FLAGGERS BE USED.

IN ADDITION TO THE REQUIREMENTS OF C&MS 614 AND THE OMUTCD, A UNIFORMED LEO WITH AN OFFICIAL PATROL CAR (CAR WITH TOP-MOUNTED EMERGENCY FLASHING LIGHTS AND COMPLETE MARKINGS OF THE APPROPRIATE LAW ENFORCEMENT AGENCY) SHOULD BE PROVIDED FOR CONTROLLING TRAFFIC FOR THE FOLLOWING TASKS, AS DIRECTED BY THE ENGINEER:

- FOR LANE CLOSURES: DURING INITIAL SET-UP PERIODS, TEAR DOWN PERIODS, SUBSTANTIAL SHIFTS OF A CLOSURE POINT OR WHEN NEW LANE CLOSURE ARRANGEMENTS ARE INITIATED.

A LEO AND PATROL CAR AS STATED ABOVE SHALL BE USED FOR ALL NIGHT WORK IN LOCATIONS SHOWN IN THE LANE VALUE CONTRACT TABLE.

IN GENERAL, LEOS SHOULD BE POSITIONED AT THE POINT OF LANE RESTRICTION OR ROAD CLOSURE AND TO MANUALLY CONTROL TRAFFIC MOVEMENTS THROUGH INTERSECTIONS IN WORK ZONES.

LEOS SHOULD NOT FORGO THEIR TRAFFIC CONTROL RESPONSIBILITIES TO APPREHEND MOTORISTS FOR ROUTINE TRAFFIC VIOLATIONS. HOWEVER, IF A MOTORIST'S ACTIONS ARE CONSIDERED TO BE RECKLESS, THEN PURSUIT OF THE MOTORIST IS APPROPRIATE.

THE LEOS WORK AT THE DIRECTION OF THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR SECURING THE SERVICES OF THE LEOS AND COMMUNICATING THE INTENTIONS OF THE PLANS WITH RESPECT TO DUTIES OF THE LEOS. THE ENGINEER SHALL HAVE FINAL CONTROL OVER THE LEOS' DUTIES AND PLACEMENT, AND WILL RESOLVE ANY ISSUES THAT MAY ARISE BETWEEN THE TWO PARTIES.

THE LEO SHALL REPORT IN TO THE CONTRACTOR PRIOR TO THE START OF THE SHIFT TO RECEIVE INSTRUCTIONS REGARDING SPECIFIC WORK ASSIGNMENTS DURING HIS/HER SHIFT. THE LEO IS EXPECTED TO STAY AT THE PROJECT SITE FOR THE ENTIRE DURATION OF HIS/HER SHIFT. THE LEO SHALL REPORT TO THE CONTRACTOR AT THE END OF HIS/HER SHIFT. ONCE THE LEO HAS COMPLETED THE DUTIES DESCRIBED ABOVE AND STILL HAS TIME REMAINING ON HIS/HER SHIFT, THE LEO MAY BE ASKED TO PATROL THROUGH THE WORK ZONE (WITH FLASHING LIGHTS OFF) OR BE PLACED AT A LOCATION TO DETER MOTORISTS FROM SPEEDING. SHOULD IT BE NECESSARY TO LEAVE THE PROJECT SITE, THE LEO SHALL NOTIFY THE ENGINEER. THE CONTRACTOR SHALL PROVIDE THE LEO WITH A TWO-WAY COMMUNICATION DEVICE WHICH SHALL BE RETURNED TO THE CONTRACTOR AT THE END OF HIS/HER SHIFT.

LAW ENFORCEMENT OFFICERS (WITH PATROL CAR) REQUIRED BY THE TRAFFIC MAINTENANCE TASKS ABOVE SHALL BE PAID FOR ON A UNIT PRICE (HOURLY) BASIS UNDER ITEM 614, LAW ENFORCEMENT OFFICER (WITH PATROL CAR) FOR ASSISTANCE.

THE HOURS PAID SHALL INCLUDE MINIMUM SHOW-UP TIME REQUIRED BY THE LAW ENFORCEMENT AGENCY INVOLVED.

ANY ADDITIONAL COSTS (ADMINISTRATIVE OR OTHERWISE) INCURRED BY THE CONTRACTOR TO OBTAIN THE SERVICES OF A LEO ARE INCLUDED WITH THE BID UNIT PRICE FOR ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE.

ITEM 614 LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE

DISTRICT 5 - 256 HOURS
 DISTRICT 6 - 1008 HOURS
 DISTRICT 9 - 16 HOURS
 DISTRICT 10 - 112 HOURS
 DISTRICT 11 - 176 HOURS

DESIGN AGENCY



DESIGNER
VN

REVIEWER
SG 03/11/22

PROJECT ID
112676


SHEET TOTAL
P.8 197

Lighting Upgrade FY2021

MODEL: Sheet PAPER SIZE: 34x22 (in.) DATE: 3/14/2022 TIME: 9:07:10 AM USER: vnumez
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SHEET NUM.							PART.					ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
7	8	10	11	12	13	14	01 / ERD / OT	02 / ERD / OT	03 / ERD / OT	04 / ERD / OT	05 / ERD / OT						
LIGHTING																	
		555	1 504	18	118	102	555	1,504	18	118	102	625	26263	2,297	EACH	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN, SYMETRICAL, 70-80K LUMENS, 480V	7
		12			3		12			3		625	26263	15	EACH	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN, SYMETRICAL, 60-69K LUMENS, 480V	7
		122	876	17	82	71	122	876	17	82	71	625	26263	1,168	EACH	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN, ASYMETRICAL, 70-80K LUMENS, 480V	7
		40	149				40	149				625	26263	189	EACH	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN, ASYMETRICAL, 60-69K LUMENS, 480V	7
		26					26					625	26263	26	EACH	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN, ASYMETRICAL, 50-59K LUMENS, 480V	7
187							38	127	2	11	9	625	26263	187	EACH	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN(FURNISH ONLY)	7
			177					177				625	26273	177	EACH	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN, SYMETRICAL, 60-69K LUMENS, 480V	7
		4	149		35	7	4	149		35	7	625	26273	195	EACH	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN, SYMETRICAL, 42-47K LUMENS, 480V	7
		5	3				5	3				625	26273	8	EACH	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN, SYMETRICAL, 37-42K LUMENS, 480V	7
		31	11				31	11				625	26273	42	EACH	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN, ASYMETRICAL, 42-47K LUMENS, 480V	7
		10	13				10	13				625	26273	23	EACH	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN, ASYMETRICAL, 28-32K LUMENS, 480V	7
24							3	18		2	1	625	26273	24	EACH	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN(FURNISH ONLY)	7
		445	953		105	112	445	953		105	112	625	75507	1,615	EACH	LUMINAIRE REMOVED, AS PER PLAN	7
		805	2 861	35	238	180	805	2,861	35	238	180	625	75506	4,119	EACH	LUMINAIRE REMOVED	7
		302	1 611	37	94	21	302	1,611	37	94	21	625	27600	2,065	EACH	LUMINAIRE, MISC.: LUMINAIRE GLASS, REFLECTOR, AND SOCKET REMOVED	7
		13	65	2	4	1	13	65	2	4	1	625	27600	85	EACH	LUMINAIRE, MISC.: COUNTERWEIGHT, HIGH MAST, AS PER PLAN	8
MAINTENANCE OF TRAFFIC																	
	1,568						256	1,008	16	112	176	614	11110	1,568	HOURLY	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE	8
INCIDENTALS																	
							LS	LS	LS	LS	LS	624	10000	LS		MOBILIZATION	8
							LS	LS	LS	LS	LS	614	11000	LS		MAINTAINING TRAFFIC	8

GENERAL SUMMARY

DESIGN AGENCY

 DESIGNER: VN
 REVIEWER: SG 03/11/22
 PROJECT ID: 112676
 SHEET: P.9 TOTAL: 197

Lighting Upgrade FY2021

MODEL: Sheet PAPER SIZE: 34x22 (in.) DATE: 3/14/2022 TIME: 9:05:23 AM USER: vnumez
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LOCATION	SHEET NO.	DESCRIPTION	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625						
			EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED	LUMINAIRE REMOVED, AS PER PLAN	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN, SYMMETRICAL, 70-80K LUMENS, 480V	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN, SYMMETRICAL, 60-69K LUMENS, 480V	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN, ASYMMETRICAL, 70-80K LUMENS, 480V	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN, ASYMMETRICAL, 60-69K LUMENS, 480V	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN, ASYMMETRICAL, 50-59K LUMENS, 480V	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN, SYMMETRICAL, 42-47K LUMENS, 480V	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN, ASYMMETRICAL, 42-47K LUMENS, 480V	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN, SYMMETRICAL, 37-42K LUMENS, 480V	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN, ASYMMETRICAL, 28-32K LUMENS, 480V	LUMINAIRE MISC.: LUMINAIRE GLASS, REFLECTOR, AND SOCKET REMOVED								
			EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH									
D05-01, 02		I-70 AND SR 204/TAYLOR RD	182	96	66	70	-	16	-	-	-	-	-	-	-	10	20						
D05-03		I-70 AND SR 37	64	32	22	22	-	10	-	-	-	-	-	-	-	-	10						
D05-04		I-70 AND SR 79	124	62	44	44	-	18	-	-	-	-	-	-	-	-	18						
D05-05		I-70 REST AREA	76	38	12	-	12	-	-	26	-	-	-	-	-	-	26						
D05-06		I-70 AND SR 13	76	38	30	18	-	-	20	-	-	-	-	-	-	-	8						
D05-07		US-33 AND CARROLL INTCHG	93	64	21	23	-	6	-	-	4	31	-	-	-	-	8						
D05-08		US-33 AND COL. LANCASTER RD	72	36	12	12	-	24	-	-	-	-	-	-	-	-	24						
D05-09		US-33 AND SR-188	80	40	18	18	-	22	-	-	-	-	-	-	-	-	22						
D05-10		US-33 AND US-22	76	38	18	18	-	-	20	-	-	-	-	-	-	-	20						
D05-11		US-33 AND TARKLIN ROAD	117	61	56	56	-	-	-	-	-	-	5	-	-	-	-						
D05-12		SR 161 AND SR 310	84	42	24	42	-	-	-	-	-	-	-	-	-	-	18						
D05-13		I-70 AND SR 209	68	34	30	30	-	4	-	-	-	-	-	-	-	-	4						
D05-14		I-70 AND I-77	202	101	45	101	-	-	-	-	-	-	-	-	-	-	56						
D05-15		I-77 AND US 22	68	33	17	19	-	14	-	-	-	-	-	-	-	-	16						
D05-16		SR 161 AND SR 37	108	50	24	42	-	8	-	-	-	-	-	-	-	-	26						
D05-17		I-70 AND US-40	72	40	6	40	-	-	-	-	-	-	-	-	-	-	26						
TOTALS CARRIED TO GENERAL SUMMARY			0.00	0.00	1562	805	445	555	12	122	40	26	4	31	5	0	10	302	0	0	0	0	0

D05 LIGHTING SUB-SUMMARY

DESIGN AGENCY	SINGH <small>SINGH + ASSOCIATES INC. CONSULTING ENGINEERS</small>
DESIGNER	
REVIEWER	VN
PROJECT ID	SG 03/11/22
SHEET	112676
TOTAL	P.10 197

Lighting Upgrade FY2021

MODEL: Sheet PAPER SIZE: 34x22 (in.) DATE: 3/14/2022 TIME: 9:11:31 AM USER: vnuwez
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LOCATION	SHEET NO.	DESCRIPTION	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625					
			EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED	LUMINAIRE REMOVED, AS PER PLAN	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN, SYMMETRICAL, 70-80K LUMENS, 480V	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN, SYMMETRICAL, 60-69K LUMENS, 480V	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN, ASYMMETRICAL, 70-80K LUMENS, 480V	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN, ASYMMETRICAL, 60-69K LUMENS, 480V	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN, ASYMMETRICAL, 50-59K LUMENS, 480V	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN, SYMMETRICAL, 42-47K LUMENS, 480V	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN, SYMMETRICAL, 60-69K LUMENS, 480V	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN, ASYMMETRICAL, 42-47K LUMENS, 480V	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN, SYMMETRICAL, 37-42K LUMENS, 480V	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN, ASYMMETRICAL, 28-32K LUMENS, 480V	LUMINAIRE MISC.: LUMINAIRE GLASS, REFLECTOR, AND SOCKET REMOVED								
			EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH					
D06-18		I-270 AND I-71	154	88	0	77	-	11	-	-	-	-	-	-	-	-	-	-	63					
D06-19		I-270 AND USR 62	76	38	6	6	-	32	-	-	-	-	-	-	-	-	-	-	32					
D06-20		I-270 AND GEORGESVILLE RD	64	41	-	8	-	33	-	-	-	-	-	-	-	-	-	-	23					
D06-21		I-270 AND US-40/ W BROAD RD	86	52	3	18	-	34	-	-	-	-	-	-	-	-	-	-	31					
D06-22		70 AND I-70 - BROAD RD TO I-70	19	19	-	-	-	-	-	-	19	-	-	-	-	-	-	-	-	-				
D06-23		I-270 AND I-70 W	240	127	9	28	-	-	-	97	-	2	-	-	-	-	-	-	-	104				
D06-23a		I-70-I-270 TO HILLARD ROME RD	29	29	29	-	-	-	-	-	29	-	-	-	-	-	-	-	-	-				
D06-26		I-270 AND CEMETERY RD	118	59	3	3	-	56	-	-	-	-	-	-	-	-	-	-	56					
D06-27		I-270 AND TUTTLE BLVD	48	24	12	12	-	12	-	-	-	-	-	-	-	-	-	-	12					
D06-28		I-270 AND US-33	152	95	3	43	-	-	-	52	-	-	-	-	-	-	-	-	54					
D06-29		I-270 AND SAWMILL	58	52	-	6	-	-	-	-	-	46	-	-	-	-	-	-	6					
D06-30		I-270 AND SR-315	91	47	-	36	-	-	-	-	-	-	11	-	-	-	-	-	44					
D06-30a		I-270 - SAWMILL TO SR-315	45	44	-	3	-	-	-	-	-	45	-	-	-	-	-	-	1					
D06-31		I-270 AND SR-315	147	79	57	66	-	8	-	-	5	-	-	-	-	-	-	-	11					
D06-32		I-270 AND US-23	170	90	75	90	-	-	-	-	-	-	-	-	-	-	-	-	5					
D06-33		I-270 - US-23 TO I-71	32	28	3	6	-	-	-	-	-	22	-	-	-	-	-	-	1					
D06-34		I-270 AND I-71	191	99	-	28	-	68	-	-	-	-	-	-	3	-	-	-	92					
D06-34b		I-71 - I-270 TO SR-161	32	32	32	-	-	-	-	32	-	-	-	-	-	-	-	-	-					
D06-35		I-270 AND CLEVELAND	126	55	6	33	-	26	-	-	-	-	-	-	-	-	-	-	65					
D06-36		I-270 AND SR-3	91	51	-	6	-	34	-	-	-	11	-	-	-	-	-	-	40					
D06-36a		I-270 - SR-3 TO SR-161	54	32	18	22	-	-	-	-	-	10	-	-	-	-	-	-	4					
D06-37		I-270 AND SR-161	178	97	68	85	-	-	-	-	12	-	-	-	-	-	-	-	18					
D06-37a		I-161-I-270 TO BUENOS AIRES BL	78	39	39	39	-	-	-	-	-	-	-	-	-	-	-	-	39					
D06-38		I-270 AND MORSE	104	52	36	42	-	10	-	-	-	-	-	-	-	-	-	-	16					
D06-39		I-270 AND EASTON	84	44	36	44	-	-	-	-	-	-	-	-	-	-	-	-	4					
D06-39a		I-270 AND AGLER	96	48	48	48	-	-	-	-	-	-	-	-	-	-	-	-	-					
D06-40		I-270 AND I-670	292	145	33	27	-	118	-	-	-	-	-	-	-	-	-	-	114					
D06-41		I-270 AND E BROAD	132	48	-	34	-	18	-	-	-	-	-	-	-	-	-	-	80					
D06-41a		I-270 - BROAD TO MAIN	116	37	-	-	-	37	-	-	-	-	-	-	-	-	-	-	79					
D06-42		I-270 AND E MAIN	146	54	-	34	-	20	-	-	-	-	-	-	-	-	-	-	92					
D06-42a		I-270 - MAIN TO LIVINGSTON	56	30	-	-	-	30	-	-	-	-	-	-	-	-	-	-	26					
D06-44		I-270 AND US-33 E	174	85	-	44	-	41	-	-	-	-	-	-	-	-	-	-	80					
D06-45		I-270 AND ALUM CREEK	33	33	3	3	-	30	-	-	-	-	-	-	-	-	-	-	30					
D06-46		I-270 AND US-23 S	88	88	10	38	-	50	-	-	-	-	-	-	-	-	-	-	52					
D06-47		I-71 AND US-36	36	36	12	12	-	24	-	-	-	-	-	-	-	-	-	-	24					
D06-48		I-71 AND GEMINI/POLARIS	101	68	3	63	-	-	-	-	-	5	-	-	-	-	-	-	30					
D06-48a		I-71 - I-270 TO SR-750	60	50	12	12	-	-	-	-	-	38	-	-	-	-	-	-	10					
D06-49		I-71 AND SR-435	76	38	18	18	-	20	-	-	-	-	-	-	-	-	-	-	20					
D06-50		I-71 AND PALMER	6	6	-	-	-	-	-	-	6	-	-	-	-	-	-	-	-					
D06-51		US-35 AND SR-435 E	44	28	12	14	-	2	-	-	12	-	-	-	-	-	-	-	4					
D06-53		US-35 AND SR-435	82	44	24	33	-	-	-	-	11	-	-	-	-	-	-	-	14					
D06-54		US-35 AND US-62	70	37	9	17	-	18	-	-	-	-	-	-	-	-	-	-	24					
D06-77		I-70 AND HILLARD ROME RD	126	63	63	63	-	-	-	-	-	-	-	-	-	-	-	-	-					
D06-80		I-71 AND SR-161	52	28	24	24	-	-	-	-	4	-	-	-	-	-	-	-	-					
D06-81		SR-161 AND SUNBURY RD	84	42	42	42	-	-	-	-	-	-	-	-	-	-	-	-	-					
D06-84		I-70 AND SR-317	45	45	27	27	-	18	-	-	-	-	-	-	-	-	-	-	18					
D06-85		I-70 AND JAMES RD	44	44	30	30	-	14	-	-	-	-	-	-	-	-	-	-	14					
D06-86		ND COLLEGE AVE / SOUTHEAST	32	32	6	6	-	26	-	-	-	-	-	-	-	-	-	-	26					
D06-88		I-71 AND SR-665	57	57	57	57	-	-	-	-	-	-	-	-	-	-	-	-	-					
D06-89		I-670 AND I-71	194	104	27	68	-	36	-	-	-	-	-	-	-	-	-	-	63					
D06-90		I-71 AND I-670	66	37	3	27	-	-	-	-	10	-	-	-	-	-	-	-	26					
D06-91		I-670 - PARK ST TO 4TH ST	4	4	-	-	-	-	-	-	4	-	-	-	-	-	-	-	-					
D06-95		I-670 AND US-33	103	49	16	17	-	30	-	-	-	-	-	-	-	-	-	-	38					
D06-96		SR-315 AND US-33	68	33	15	17	-	16	-	-	-	-	-	-	-	-	-	-	20					
D06-97		I-670 - PARK ST TO NEIL AVE	66	35	24	28	-	4	-	-	3	-	-	-	-	-	-	-	7					
TOTALS CARRIED TO GENERAL SUMMARY			0.00	0.00	5016	2861	953	1504	0	876	149	0	149	177	11	3	0	13	1612	0	0	0	0	

DESIGN AGENCY	
SINGH SINGH & ASSOCIATES INC. CONSULTING ENGINEERS	
DESIGNER	VN
REVIEWER	SG 03/11/22
PROJECT ID	112676
SHEET	P.11
TOTAL	197


D06 LIGHTING SUB-SUMMARY

Lighting Upgrade FY2021

MODEL: Sheet PAPER SIZE: 34x22 (in.) DATE: 3/14/2022 TIME: 9:15:45 AM USER: vnumez
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REF NO.	SHEET NO.	STATION TO STATION	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625						
			EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED	LUMINAIRE REMOVED, AS PER PLAN	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN, SYMMETRICAL, 70-80K LUMENS, 480V	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN, SYMMETRICAL, 60-69K LUMENS, 480V	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN, ASYMMETRICAL, 70-80K LUMENS, 480V	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN, ASYMMETRICAL, 60-69K LUMENS, 480V	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN, ASYMMETRICAL, 50-59K LUMENS, 480V	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN, SYMMETRICAL, 42-47K LUMENS, 480V	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN, ASYMMETRICAL, 42-47K LUMENS, 480V	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN, SYMMETRICAL, 37-42K LUMENS, 480V	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN, ASYMMETRICAL, 28-32K LUMENS, 480V	LUMINAIRE MISC.: LUMINAIRE GLASS, REFLECTOR, AND SOCKET REMOVED									
			EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH										
D10-57		US-33 AND SR-78	32	16	0	4	-	12	-	-	-	-	-	-	-	-	-	-	16					
D10-58		US-33 AND RICHLAND RD	72	36	6	6	-	30	-	-	-	-	-	-	-	-	-	-	30					
D10-59		US-33 AND SR 328	6	3	3	-	3	-	-	-	-	-	-	-	-	-	-	-	-					
D10-62		US-33 AND TR-346	40	22	0	6	-	16	-	-	-	-	-	-	-	-	-	-	18					
D10-63		I-77 AND SR-7	82	41	33	35	-	6	-	-	-	-	-	-	-	-	-	-	8					
D10-64		TORCH ROAD REST AREA	18	18	-	-	-	-	-	-	18	-	-	-	-	-	-	-	-					
D10-65		SR-7 AND US-50	187	102	63	67	-	18	-	-	17	-	-	-	-	-	-	-	22					
TOTALS CARRIED TO GENERAL SUMMARY			0	0	437	238	105	118	3	82	0	0	35	0	0	0	0	94	0	0	0	0	0	0

DESIGN AGENCY



SINGH + ASSOCIATES INC.
CONSULTING ENGINEERS

DESIGNER: VN
 REVIEWER: SG
 PROJECT ID: 112676
 SHEET TOTAL: P.13 | 197

D10 LIGHTING SUB-SUMMARY

Lighting Upgrade FY2021

MODEL: Sheet PAPER: 34x22 (in.) DATE: 3/14/2022 TIME: 9:17:52 AM USER: vnumez
 p:\1\hobdod-pw.berlley.com\hobdod-pw-02\Documents\01 Active Projects\Statewide\Statewide\112676\01-Engineering_Singh\Associates\Lighting\Sheets\112676_LS005.dgn

REF NO.	SHEET NO.	STATION TO STATION	625																					
			EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED	LUMINAIRE REMOVED, AS PER PLAN	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN, SYMMETRICAL, 70-80K LUMENS, 480V	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN, SYMMETRICAL, 60-69K LUMENS, 480V	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN, ASYMMETRICAL, 70-80K LUMENS, 480V	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN, ASYMMETRICAL, 60-69K LUMENS, 480V	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN, ASYMMETRICAL, 50-59K LUMENS, 480V	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN, SYMMETRICAL, 42-47K LUMENS, 480V	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN, ASYMMETRICAL, 42-47K LUMENS, 480V	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN, SYMMETRICAL, 37-42K LUMENS, 480V	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN, ASYMMETRICAL, 28-32K LUMENS, 480V	LUMINAIRE MISC.: LUMINAIRE GLASS, REFLECTOR, AND SOCKET REMOVED									
			EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH						
D11-66,67		I-70 WB & EB REST AREA	60	30	30	18	-	12	-	-	-	-	-	-	-	-	-	-						
D11-68		I-70 AND SR 9	7	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
D11-69		I-70 AND MALL RD	14	14	-	-	-	14	-	-	-	-	-	-	-	-	-	-						
D11-70		I-70 AND BANFIELD RD	6	6	-	-	-	6	-	-	-	-	-	-	-	-	-	-						
D11-71		I-70 AND I-470	6	6	-	-	-	6	-	-	-	-	-	-	-	-	-	-						
D11-72		I-470 AND SR 7	80	40	40	40	-	-	-	-	-	-	-	-	-	-	-	-						
D11-73,74		US-22 AND SR 7 OVERLAP	46	23	9	9	-	14	-	-	-	-	-	-	-	-	-	-						
D11-75		US-22 AND SR 7	40	21	6	6	-	15	-	-	-	-	-	-	-	-	-	-						
D11-76		I-77 AND US 36	66	33	27	29	-	4	-	-	-	-	-	-	-	-	-	-						
TOTALS CARRIED TO GENERAL SUMMARY			0.00	0.00	325	180	112	102	0	71	0	0	7	0	0	0	0	21	0	0	0	0	0	

D11 LIGHTING SUB-SUMMARY

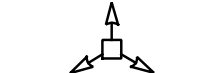
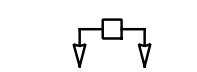
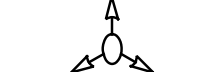
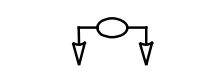
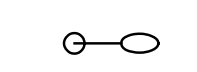


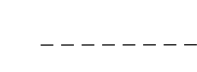
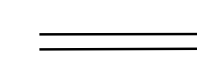

DESIGN AGENCY	
SINGH <small>SINGH & ASSOCIATES, INC. CONSULTING ENGINEERS</small>	
DESIGNER	VN
REVIEWER	SG 03/11/22
PROJECT ID	112676
SHEET	P.14
TOTAL	197

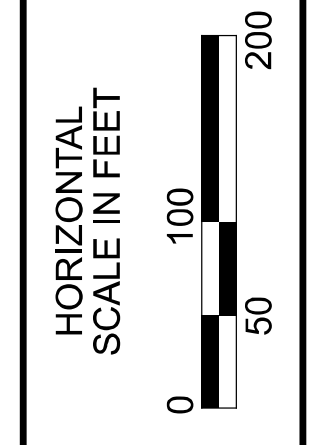
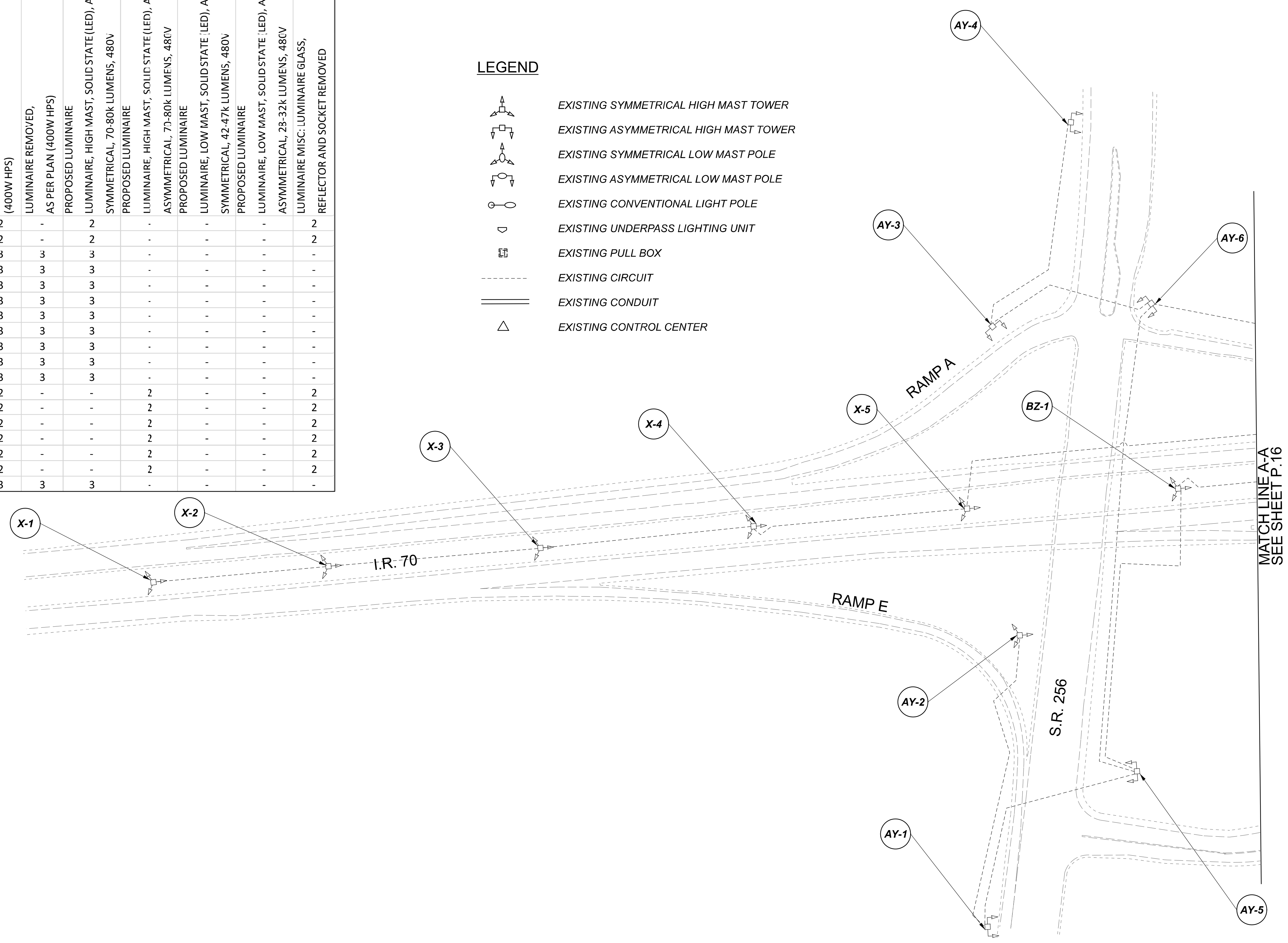
D05-Lighting Upgrade FY2021

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POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN	SYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN	ASYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN	SYMMETRICAL, 42-47k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN	ASYMMETRICAL, 28-32k LUMENS, 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
X-1	4	2	-	2	-	-	-	-	-	-	-	-	-	-	-	2
X-2	4	2	-	2	-	-	-	-	-	-	-	-	-	-	-	2
X-3	6	3	3	3	-	-	-	-	-	-	-	-	-	-	-	-
X-4	6	3	3	3	-	-	-	-	-	-	-	-	-	-	-	-
X-5	6	3	3	3	-	-	-	-	-	-	-	-	-	-	-	-
BZ-1	6	3	3	3	-	-	-	-	-	-	-	-	-	-	-	-
BZ-2	6	3	3	3	-	-	-	-	-	-	-	-	-	-	-	-
BZ-3	6	3	3	3	-	-	-	-	-	-	-	-	-	-	-	-
BZ-4	6	3	3	3	-	-	-	-	-	-	-	-	-	-	-	-
BZ-5	6	3	3	3	-	-	-	-	-	-	-	-	-	-	-	-
AZ-8	6	3	3	3	-	-	-	-	-	-	-	-	-	-	-	-
AZ-7	4	2	-	-	2	-	-	2	-	-	-	-	-	-	-	2
AZ-6	4	2	-	-	2	-	-	2	-	-	-	-	-	-	-	2
AY-7	4	2	-	-	2	-	-	2	-	-	-	-	-	-	-	2
AY-6	4	2	-	-	2	-	-	2	-	-	-	-	-	-	-	2
AY-5	4	2	-	-	2	-	-	2	-	-	-	-	-	-	-	2
AY-3	4	2	-	-	2	-	-	2	-	-	-	-	-	-	-	2
AY-2	6	3	3	3	-	-	-	-	-	-	-	-	-	-	-	-

LEGEND

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER



Lighting Plan - Locations 1 & 2
 I-70 and S.R. 256

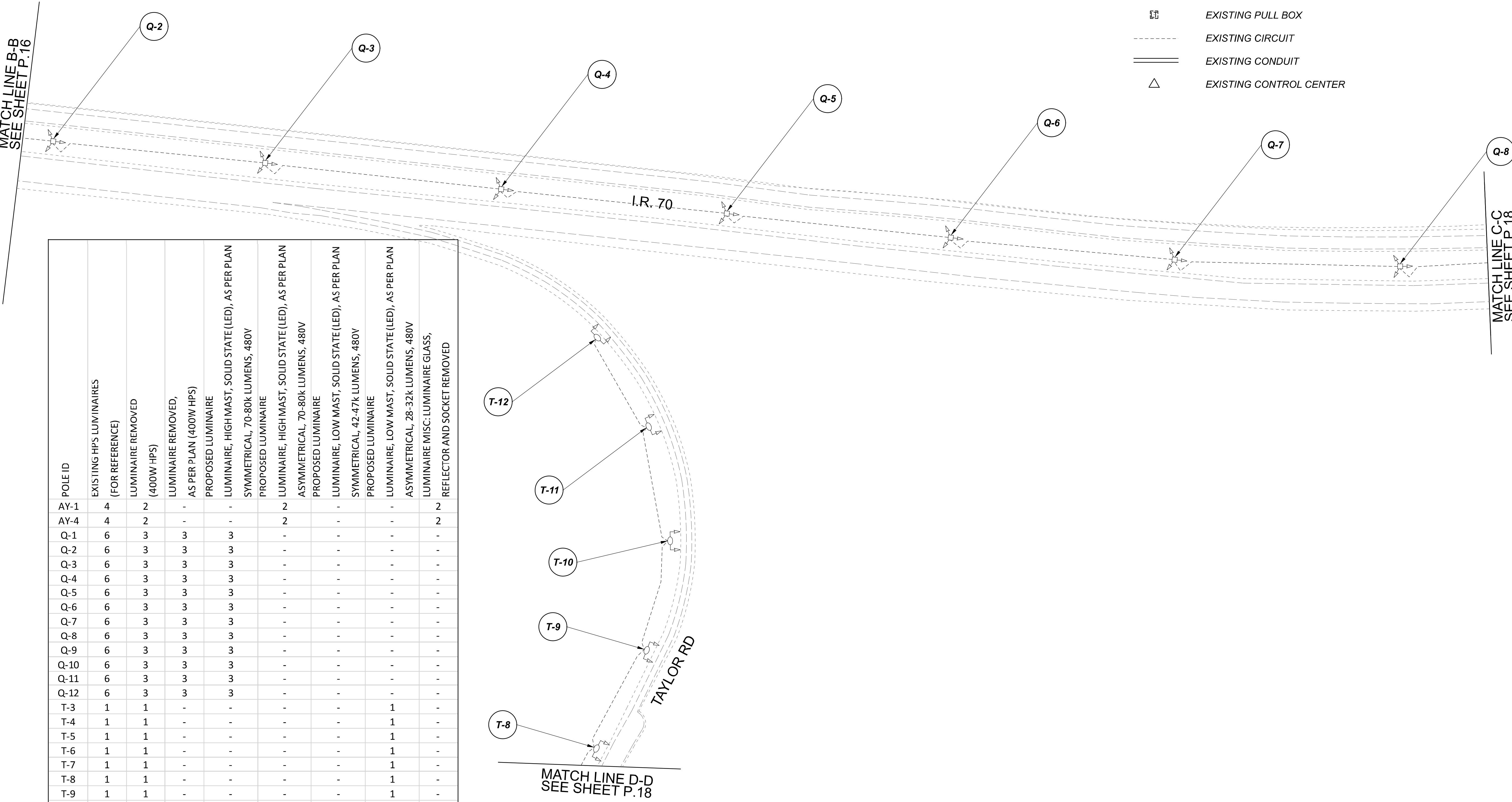
DESIGN AGENCY	
SINGH SINGH + ASSOCIATES, INC. CONSULTING ENGINEERS	
DESIGNER	
VN	
REVIEWER	
SG 03/11/22	
PROJECT ID	
112676	
SUBSET	TOTAL
1	4
SHEET	TOTAL
P.15	197

D05-Lighting Upgrade FY2021

MODEL Sheet PAPER SIZE: 34x22 (in.) DATE: 3/10/2022 TIME: 11:41 PM USER: vnunez
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MATCH LINE B-B
SEE SHEET P.16

POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE	LUMINAIRE, HIGHMAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, HIGHMAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 42-47k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 28-32k LUMENS, 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
AY-1	4	2	-	-	-	2	-	-	-	-	2	-
AY-4	4	2	-	-	-	2	-	-	-	-	2	-
Q-1	6	3	3	-	-	-	-	-	-	-	-	-
Q-2	6	3	3	3	-	-	-	-	-	-	-	-
Q-3	6	3	3	3	-	-	-	-	-	-	-	-
Q-4	6	3	3	3	-	-	-	-	-	-	-	-
Q-5	6	3	3	3	-	-	-	-	-	-	-	-
Q-6	6	3	3	3	-	-	-	-	-	-	-	-
Q-7	6	3	3	3	-	-	-	-	-	-	-	-
Q-8	6	3	3	3	-	-	-	-	-	-	-	-
Q-9	6	3	3	3	-	-	-	-	-	-	-	-
Q-10	6	3	3	3	-	-	-	-	-	-	-	-
Q-11	6	3	3	3	-	-	-	-	-	-	-	-
Q-12	6	3	3	3	-	-	-	-	-	-	-	-
T-3	1	1	-	-	-	-	-	-	-	-	1	-
T-4	1	1	-	-	-	-	-	-	-	-	1	-
T-5	1	1	-	-	-	-	-	-	-	-	1	-
T-6	1	1	-	-	-	-	-	-	-	-	1	-
T-7	1	1	-	-	-	-	-	-	-	-	1	-
T-8	1	1	-	-	-	-	-	-	-	-	1	-
T-9	1	1	-	-	-	-	-	-	-	-	1	-
T-10	1	1	-	-	-	-	-	-	-	-	1	-
T-11	1	1	-	-	-	-	-	-	-	-	1	-
T-12	1	1	-	-	-	-	-	-	-	-	1	-



LEGEND

- EXISTING SYMMETRICAL HIGH MAST TOWER
- EXISTING ASYMMETRICAL HIGH MAST TOWER
- EXISTING SYMMETRICAL LOW MAST POLE
- EXISTING ASYMMETRICAL LOW MAST POLE
- EXISTING CONVENTIONAL LIGHT POLE
- EXISTING UNDERPASS LIGHTING UNIT
- EXISTING PULL BOX
- EXISTING CIRCUIT
- EXISTING CONDUIT
- EXISTING CONTROL CENTER



Lighting Plan - Locations 1 & 2
I-70 and S.R. 256/204A (Taylor Rd)

DESIGN AGENCY



DESIGNER
VN

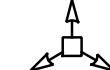
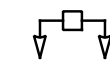
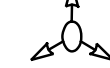
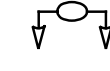
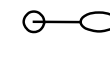


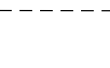
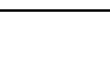
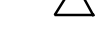
REVIEWER
SG 03/11/22

PROJECT ID
112676

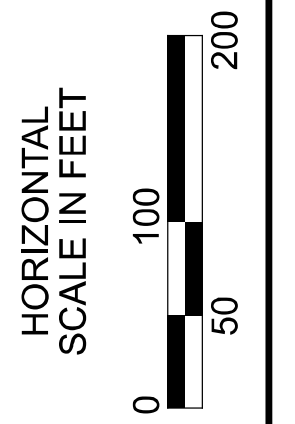
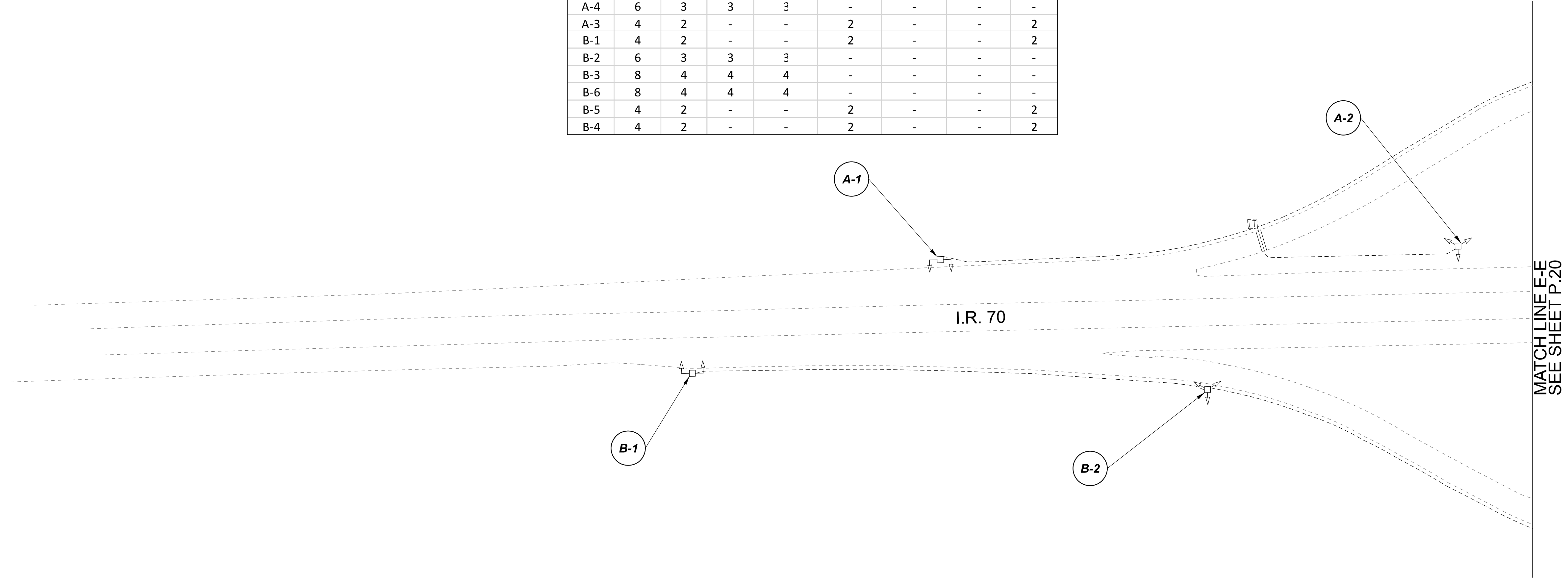
SUBSET TOTAL
3 4

SHEET TOTAL
P.17 197

LEGEND

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER

POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 42-47k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 28-32k LUMENS, 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
A-1	4	2	-	-	-	-	2	-	-	-	-	2
A-2	8	4	4	4	-	-	-	-	-	-	-	-
A-5	8	4	4	4	-	-	-	-	-	-	-	-
A-4	6	3	3	3	-	-	-	-	-	-	-	-
A-3	4	2	-	-	-	2	-	-	-	-	-	2
B-1	4	2	-	-	-	2	-	-	-	-	-	2
B-2	6	3	3	3	-	-	-	-	-	-	-	-
B-3	8	4	4	4	-	-	-	-	-	-	-	-
B-6	8	4	4	4	-	-	-	-	-	-	-	-
B-5	4	2	-	-	-	2	-	-	-	-	-	2
B-4	4	2	-	-	-	2	-	-	-	-	-	2



Lighting Plan - Location 3
I-70 and S.R. 37











DESIGN AGENCY	
SINGH <small>SINGH + ASSOCIATES, INC. CONSULTING ENGINEERS</small>	
DESIGNER	
VN	
REVIEWER	
SG 03/11/22	
PROJECT ID	
112676	
SUBSET	TOTAL
1	2
SHEET	TOTAL
P.19	197

MATCH LINE E-E
SEE SHEET P.20

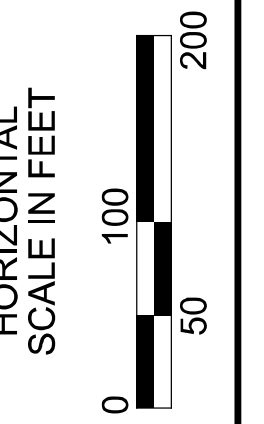
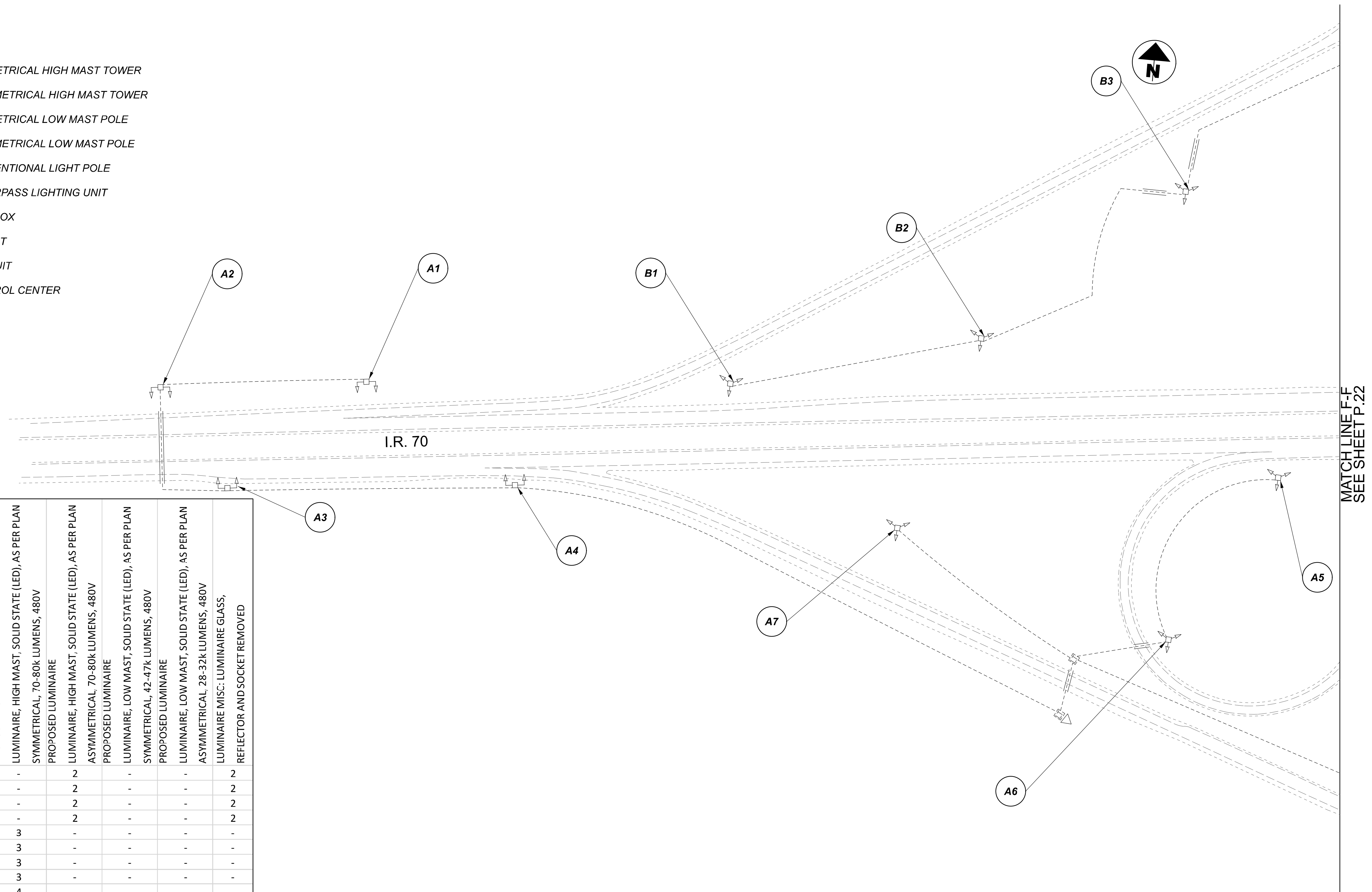
D05-Lighting Upgrade FY2021

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LEGEND

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER

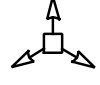
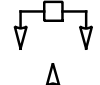
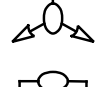

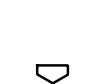

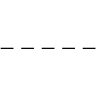
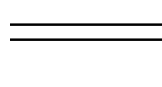


POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 42-47k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 28-32k LUMENS, 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
A-1	4	2	-	-	-	2	-	-	-	-	2	-
A-2	4	2	-	-	-	2	-	-	-	-	2	-
A-3	4	2	-	-	-	2	-	-	-	-	2	-
A-4	4	2	-	-	-	2	-	-	-	-	2	-
A-5	6	3	3	3	-	-	-	-	-	-	-	-
A-6	6	3	3	3	-	-	-	-	-	-	-	-
A-7	6	3	3	3	-	-	-	-	-	-	-	-
A-8	6	3	3	3	-	-	-	-	-	-	-	-
A-9	8	4	4	4	-	-	-	-	-	-	-	-
B-1	8	4	4	4	-	-	-	-	-	-	-	-
B-2	6	3	3	3	-	-	-	-	-	-	-	-
B-3	6	3	3	3	-	-	-	-	-	-	-	-
B-4	6	3	3	3	-	-	-	-	-	-	-	-
B-5	6	3	3	3	-	-	-	-	-	-	-	-
B-6	6	3	3	3	-	-	-	-	-	-	-	-
C-1	6	3	3	3	-	-	-	-	-	-	-	-
C-2	6	3	3	3	-	-	-	-	-	-	-	-
C-3	6	3	3	3	-	-	-	-	-	-	-	-
C-4	4	2	-	-	-	2	-	-	-	-	2	-
C-5	4	2	-	-	-	2	-	-	-	-	2	-
C-6	4	2	-	-	-	2	-	-	-	-	2	-
C-7	4	2	-	-	-	2	-	-	-	-	2	-
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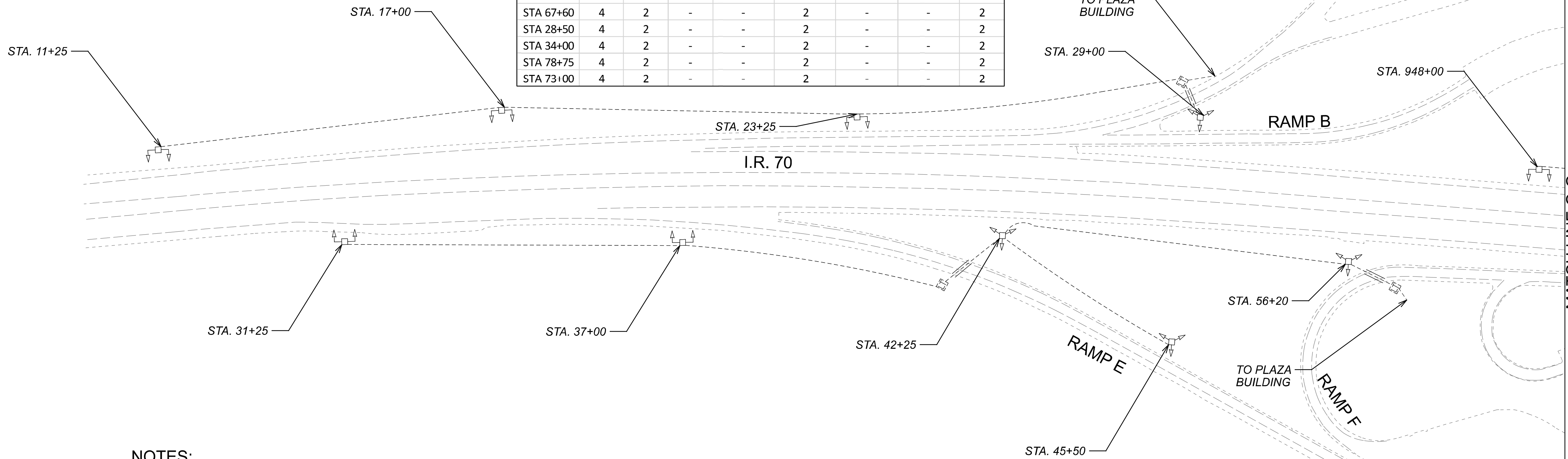


Lighting Plan - Location 4
 I-70 and S.R. 79

DESIGN AGENCY	
SINGH SINGH + ASSOCIATES, INC. CONSULTING ENGINEERS	
DESIGNER	
VN	
REVIEWER	
SG 03/11/22	
PROJECT ID	
112676	
SUBSET	TOTAL
1	2
SHEET	
P.21	
TOTAL	
197	

LEGEND

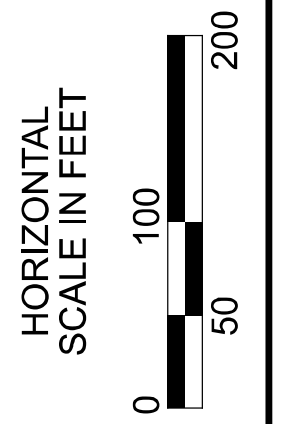
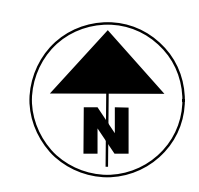
-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER



POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN	SYMMETRICAL, 60-69k LUMENS, 480V PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN	ASYMMETRICAL, 50-59k LUMENS, 480V PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN	SYMMETRICAL, 42-47k LUMENS, 480V PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN	ASYMMETRICAL, 28-32k LUMENS, 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
STA 17+00	4	2	-	-	2	-	-	-	-	-	-	2	2
STA 23+25	4	2	-	-	2	-	-	-	-	-	-	-	2
STA 37+00	4	2	-	-	2	-	-	-	-	-	-	-	2
STA 42+25	6	3	3	3	-	-	-	-	-	-	-	-	-
STA 45+50	6	3	3	3	-	-	-	-	-	-	-	-	-
STA 11+25	4	2	-	-	2	-	-	-	-	-	-	-	2
STA 31+25	4	2	-	-	2	-	-	-	-	-	-	-	2
STA 29+00	6	3	3	3	-	-	-	-	-	-	-	-	-
STA 953+75	4	2	-	-	2	-	-	-	-	-	-	-	2
STA 948+00	4	2	-	-	2	-	-	-	-	-	-	-	2
STA 56+20	6	3	3	3	-	-	-	-	-	-	-	-	-
STA 61+90	4	2	-	-	2	-	-	-	-	-	-	-	2
STA 67+60	4	2	-	-	2	-	-	-	-	-	-	-	2
STA 28+50	4	2	-	-	2	-	-	-	-	-	-	-	2
STA 34+00	4	2	-	-	2	-	-	-	-	-	-	-	2
STA 78+75	4	2	-	-	2	-	-	-	-	-	-	-	2
STA 73+00	4	2	-	-	2	-	-	-	-	-	-	-	2

NOTES:

- NO INFORMATION ON THE LIGHT POLE TAGS ARE AVAILABLE FROM THE RECORD DRAWINGS (PROJ. 770-2003-074_I70/LICKING COUNTY REST AREA). THEREFORE STATION CALLOUTS ARE PROVIDED ON THE PLAN TO CROSS-REFERENCE WITH THE TABLE SHOWN ON THIS SHEET.













Lighting Plan - Location 5
I-70 Rest Area

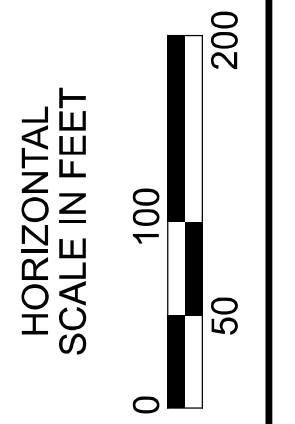
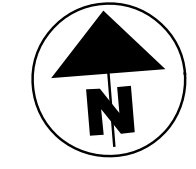
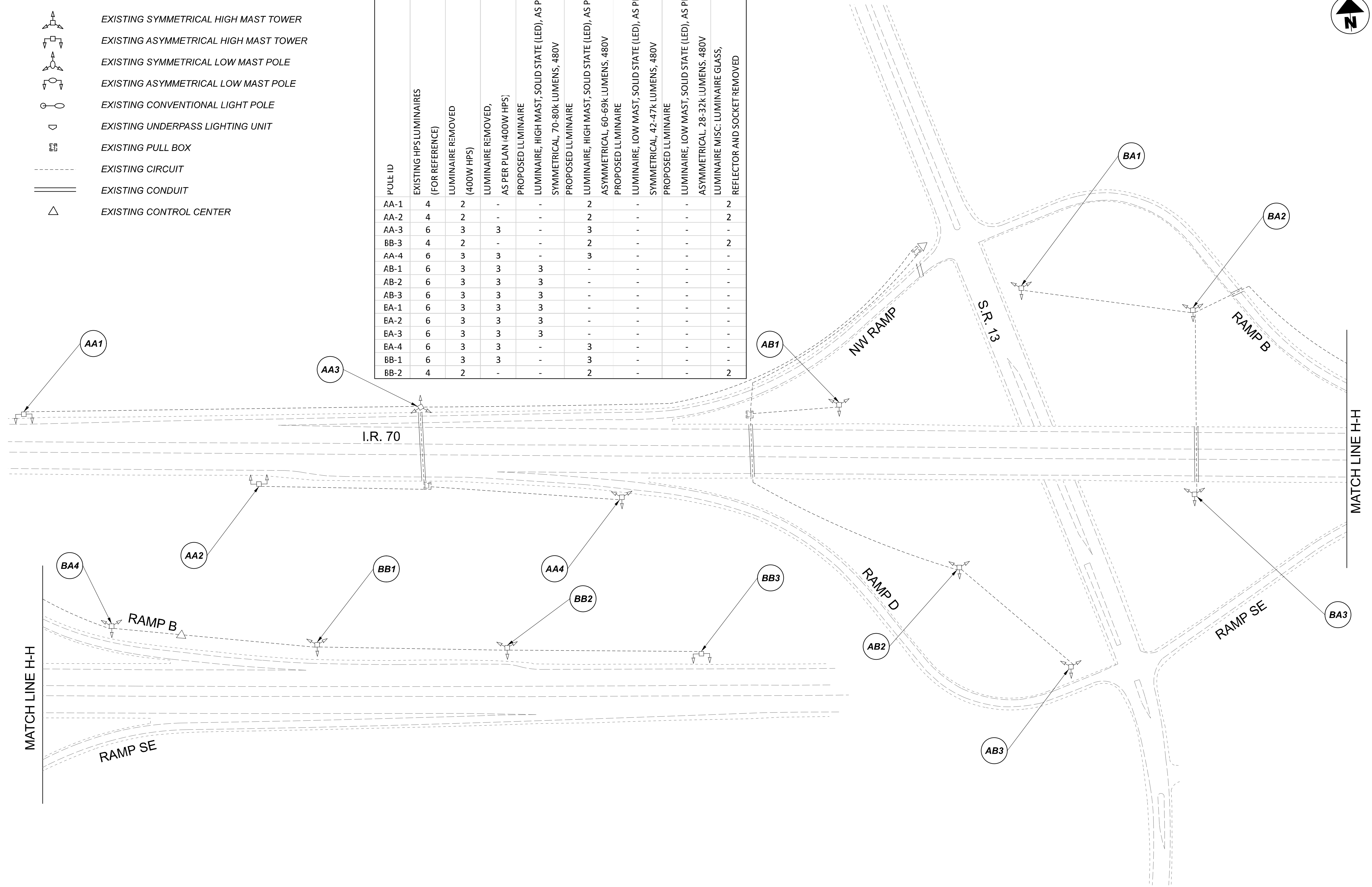
DESIGN AGENCY	
SINGH SINGH & ASSOCIATES, INC. CONSULTING ENGINEERS	
DESIGNER	
VN	
REVIEWER	
SG 03/11/22	
PROJECT ID	
112676	
SUBSET	TOTAL
1	2
SHEET	TOTAL
P.23	197

MATCH LINE G-G
SEE SHEET P.24

LEGEND

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER

POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 70-80K LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 60-69K LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 28-32K LUMENS, 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
AA-1	4	2	-	-	-	2	-	-	-	2
AA-2	4	2	-	-	-	2	-	-	-	2
AA-3	6	3	3	-	-	3	-	-	-	-
BB-3	4	2	-	-	-	2	-	-	-	2
AA-4	6	3	3	-	-	3	-	-	-	-
AB-1	6	3	3	3	-	-	-	-	-	-
AB-2	6	3	3	3	-	-	-	-	-	-
AB-3	6	3	3	3	-	-	-	-	-	-
EA-1	6	3	3	3	-	-	-	-	-	-
EA-2	6	3	3	3	-	-	-	-	-	-
EA-3	6	3	3	3	-	-	-	-	-	-
EA-4	6	3	3	-	-	3	-	-	-	-
BB-1	6	3	3	-	-	3	-	-	-	-
BB-2	4	2	-	-	-	2	-	-	-	2



Lighting Plan - Location 6
I-70 and S.R. 13

DESIGN AGENCY	
SINGH SINGH & ASSOCIATES, INC. CONSULTING ENGINEERS	
DESIGNER	
VN	
REVIEWER	
SG 03/11/22	
PROJECT ID	
112676	
SUBSET	TOTAL
1	1
SHEET	TOTAL
P.25	197


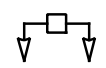
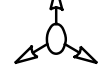
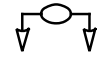
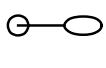


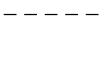
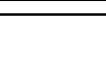
D05-Lighting Upgrade FY2021

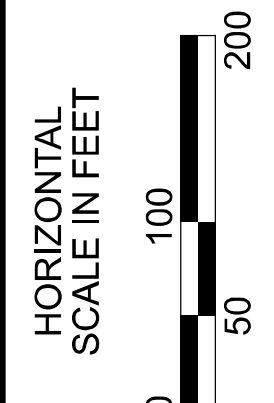
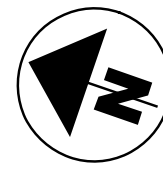
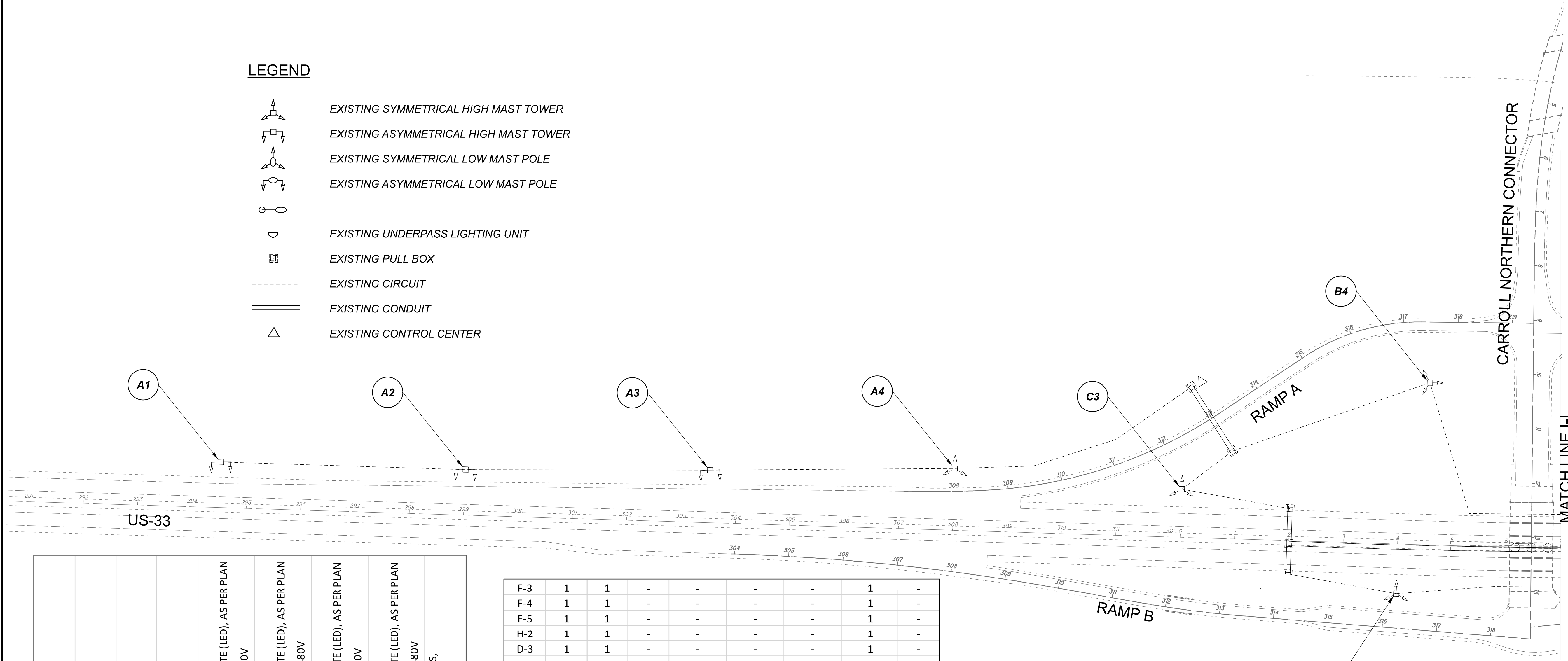
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POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 42-47k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 42-47k LUMENS, 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
A-1	4	2	-	-	-	2	-	-	-	-	2	-
A-2	4	2	-	-	-	2	-	-	-	-	2	-
A-3	4	2	-	-	-	2	-	-	-	-	2	-
A-4	6	3	3	3	-	-	-	-	-	-	-	-
C-3	6	3	3	3	-	-	-	-	-	-	-	-
C-2	6	3	3	3	-	-	-	-	-	-	-	-
C-1	6	3	3	3	-	-	-	-	-	-	-	-
B-4	6	3	3	3	-	-	-	-	-	-	-	-
B-3	6	3	3	3	-	-	-	-	-	-	-	-
B-2	6	3	3	3	-	-	-	-	-	-	-	-
B-1	4	2	-	2	-	-	-	-	-	-	2	-
F-1	1	1	-	-	-	1	-	-	-	-	-	-
D-1	1	1	-	-	-	1	-	-	-	-	-	-
D-2	1	1	-	-	-	1	-	-	-	-	-	-
F-2	1	1	-	-	-	1	-	-	-	-	-	-

F-3	1	1	-	-	-	-	1	-
F-4	1	1	-	-	-	-	1	-
F-5	1	1	-	-	-	-	1	-
H-2	1	1	-	-	-	-	1	-
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D-4	1	1	-	-	-	-	1	-
D-5	1	1	-	-	-	-	1	-
D-6	1	1	-	-	-	-	1	-
H-1	1	1	-	-	-	-	1	-
H-2	1	1	-	-	-	-	1	-
G-10	1	1	-	-	-	-	1	-
G-9	1	1	-	-	-	-	1	-
G-8	1	1	-	-	-	-	1	-
G-7	1	1	-	-	-	-	1	-
G-6	1	1	-	-	-	-	1	-
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E-10	1	1	-	-	-	-	1	-
E-11	1	1	-	-	-	-	1	-

LEGEND

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER

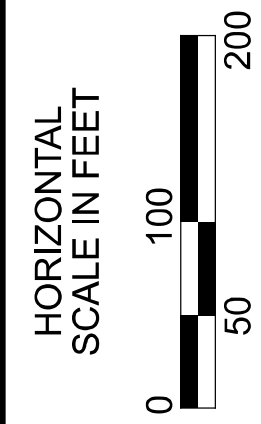
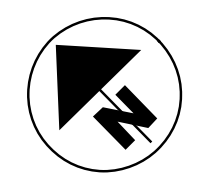
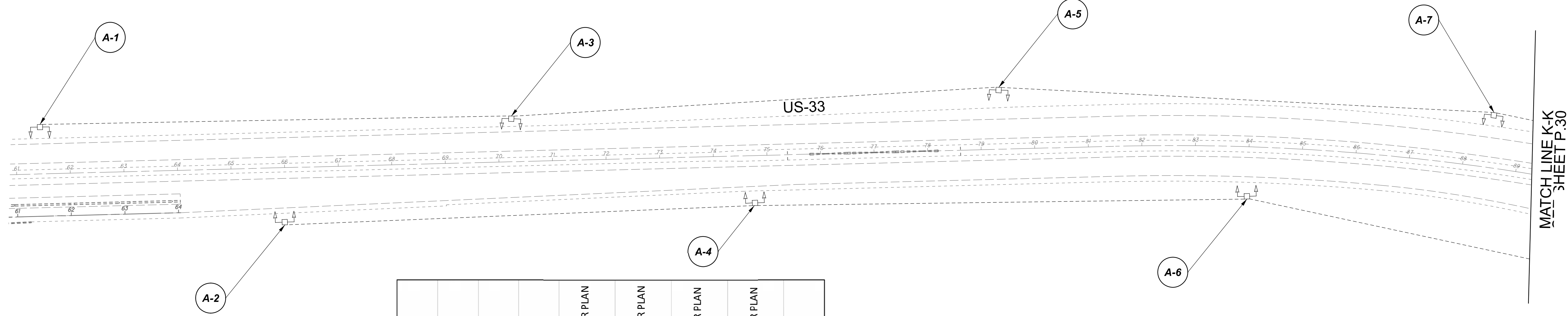


Lighting Plan - Location 7
 US-33 and Carroll Interchange

DESIGN AGENCY	
SINGH SINGH + ASSOCIATES INC. CONSULTING ENGINEERS	
DESIGNER	
VN	
REVIEWER	
SG 03/11/22	
PROJECT ID	
112676	
SUBSET	TOTAL
1	3
SHEET	
P.26	197

D05-Lighting Upgrade FY2021

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POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 42-47k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 28-32k LUMENS, 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
A-1	4	2	-	-	-	2	-	-	-	-	2	2
A-2	4	2	-	-	-	2	-	-	-	-	2	2
A-3	4	2	-	-	-	2	-	-	-	-	2	2
A-4	4	2	-	-	-	2	-	-	-	-	2	2
A-5	4	2	-	-	-	2	-	-	-	-	2	2
A-6	4	2	-	-	-	2	-	-	-	-	2	2
A-7	4	2	-	-	-	2	-	-	-	-	2	2
A-8	4	2	-	-	-	2	-	-	-	-	2	2
A-9	4	2	-	-	-	2	-	-	-	-	2	2
A-10	6	3	3	3	-	-	-	-	-	-	-	-
A-11	4	2	-	-	-	2	-	-	-	-	2	2
B-1	6	3	3	3	-	-	-	-	-	-	-	-
B-2	6	3	3	3	-	-	-	-	-	-	-	-
B-3	6	3	3	3	-	-	-	-	-	-	-	-
B-4	4	2	-	-	-	2	-	-	-	-	2	2
B-5	4	2	-	-	-	2	-	-	-	-	2	2

Lighting Plan - Location 8
 US-33 and Columbus Lancaster Road

DESIGN AGENCY
SINGH
 SINGH + ASSOCIATES, INC.
 CONSULTING ENGINEERS

DESIGNER
 VN

REVIEWER
 SG 03/11/22

PROJECT ID
 112676

SUBSET	TOTAL
1	2


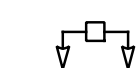
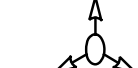
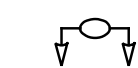
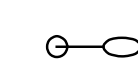



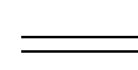

SHEET	TOTAL
P.29	197

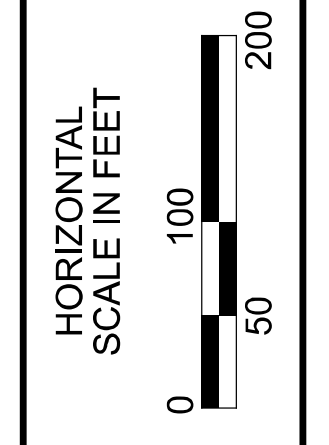
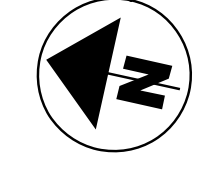
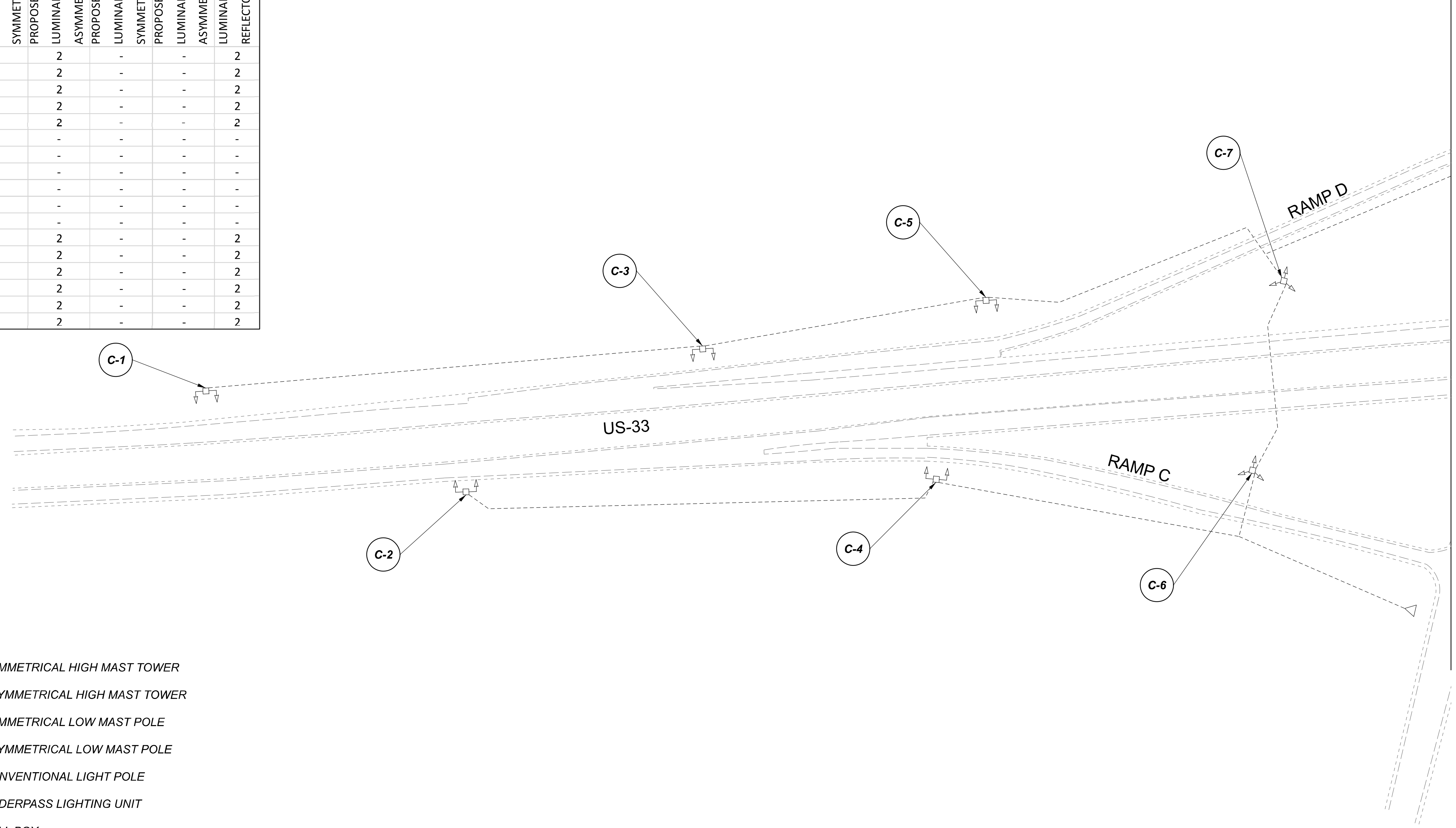
D05-Lighting Upgrade FY2021

MODEL SHEET PAPER SIZE: 34x22 (in.) DATE: 3/10/2022 TIME: 11:07 PM USER: vnuvez
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POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 42-47k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 28-32k LUMENS, 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
C-1	4	2	-	-	-	2	-	-	-	-	-	2
C-2	4	2	-	-	-	2	-	-	-	-	-	2
C-3	4	2	-	-	-	2	-	-	-	-	-	2
C-4	4	2	-	-	-	2	-	-	-	-	-	2
C-5	4	2	-	-	-	2	-	-	-	-	-	2
C-6	6	3	3	3	3	-	-	-	-	-	-	-
C-7	6	3	3	3	3	-	-	-	-	-	-	-
C-8	6	3	3	3	3	-	-	-	-	-	-	-
D-1	6	3	3	3	3	-	-	-	-	-	-	-
D-2	6	3	3	3	3	-	-	-	-	-	-	-
D-3	6	3	3	3	3	-	-	-	-	-	-	-
D-4	4	2	-	-	-	2	-	-	-	-	-	2
D-5	4	2	-	-	-	2	-	-	-	-	-	2
D-6	4	2	-	-	-	2	-	-	-	-	-	2
D-7	4	2	-	-	-	2	-	-	-	-	-	2
D-8	4	2	-	-	-	2	-	-	-	-	-	2
D-9	4	2	-	-	-	2	-	-	-	-	-	2

LEGEND

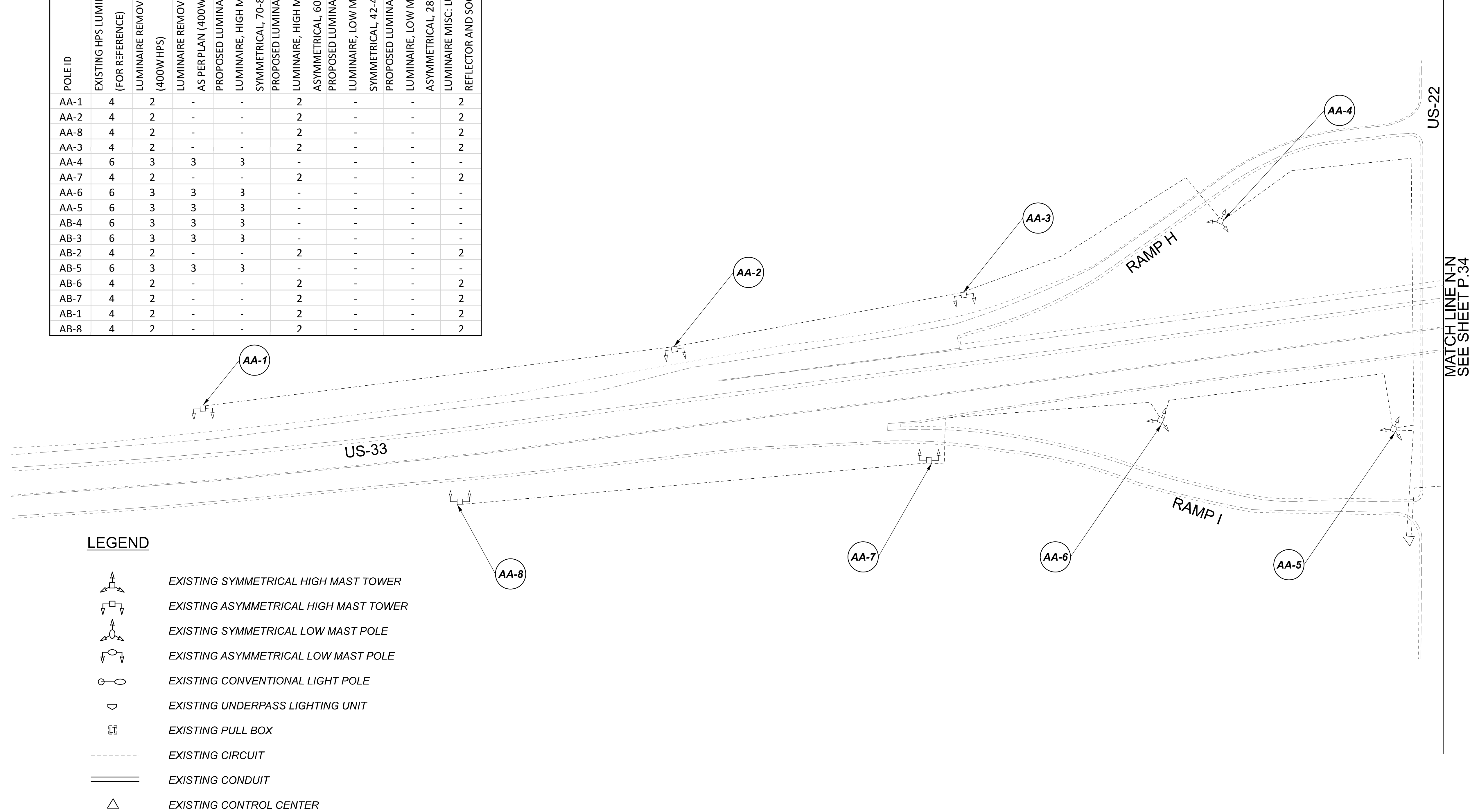
-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER



Lighting Plan - Location 9
US-33 and S.R. 188

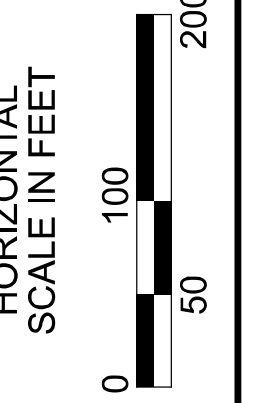
DESIGN AGENCY	
SINGH SINGH + ASSOCIATES, INC. CONSULTING ENGINEERS	
DESIGNER	
VN	
REVIEWER	
SG 03/11/22	
PROJECT ID	
112676	
SUBSET	TOTAL
1	2
SHEET	TOTAL
P.31	197

POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 60-69k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 42-47k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 28-32k LUMENS, 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
AA-1	4	2	-	-	-	2	-	-	-	-	2	-
AA-2	4	2	-	-	-	2	-	-	-	-	2	-
AA-8	4	2	-	-	-	2	-	-	-	-	2	-
AA-3	4	2	-	-	-	2	-	-	-	-	2	-
AA-4	6	3	3	3	-	-	-	-	-	-	-	-
AA-7	4	2	-	-	-	2	-	-	-	-	2	-
AA-6	6	3	3	3	-	-	-	-	-	-	-	-
AA-5	6	3	3	3	-	-	-	-	-	-	-	-
AB-4	6	3	3	3	-	-	-	-	-	-	-	-
AB-3	6	3	3	3	-	-	-	-	-	-	-	-
AB-2	4	2	-	-	-	2	-	-	-	-	2	-
AB-5	6	3	3	3	-	-	-	-	-	-	-	-
AB-6	4	2	-	-	-	2	-	-	-	-	2	-
AB-7	4	2	-	-	-	2	-	-	-	-	2	-
AB-1	4	2	-	-	-	2	-	-	-	-	2	-
AB-8	4	2	-	-	-	2	-	-	-	-	2	-



LEGEND

- EXISTING SYMMETRICAL HIGH MAST TOWER
- EXISTING ASYMMETRICAL HIGH MAST TOWER
- EXISTING SYMMETRICAL LOW MAST POLE
- EXISTING ASYMMETRICAL LOW MAST POLE
- EXISTING CONVENTIONAL LIGHT POLE
- EXISTING UNDERPASS LIGHTING UNIT
- EXISTING PULL BOX
- EXISTING CIRCUIT
- EXISTING CONDUIT
- EXISTING CONTROL CENTER



Lighting Plan - Location 10
US-33 and US-22

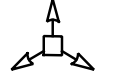
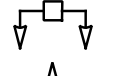
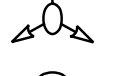



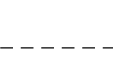
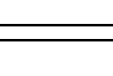


DESIGN AGENCY	
SINGH <small>SINGH + ASSOCIATES, INC. CONSULTING ENGINEERS</small>	
DESIGNER	
VN	
REVIEWER	
SG 03/11/22	
PROJECT ID	
112676	
SUBSET	TOTAL
1	2
SHEET	TOTAL
P.33	197

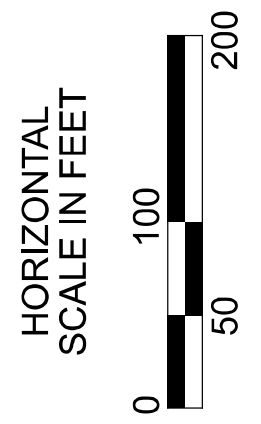
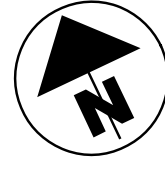
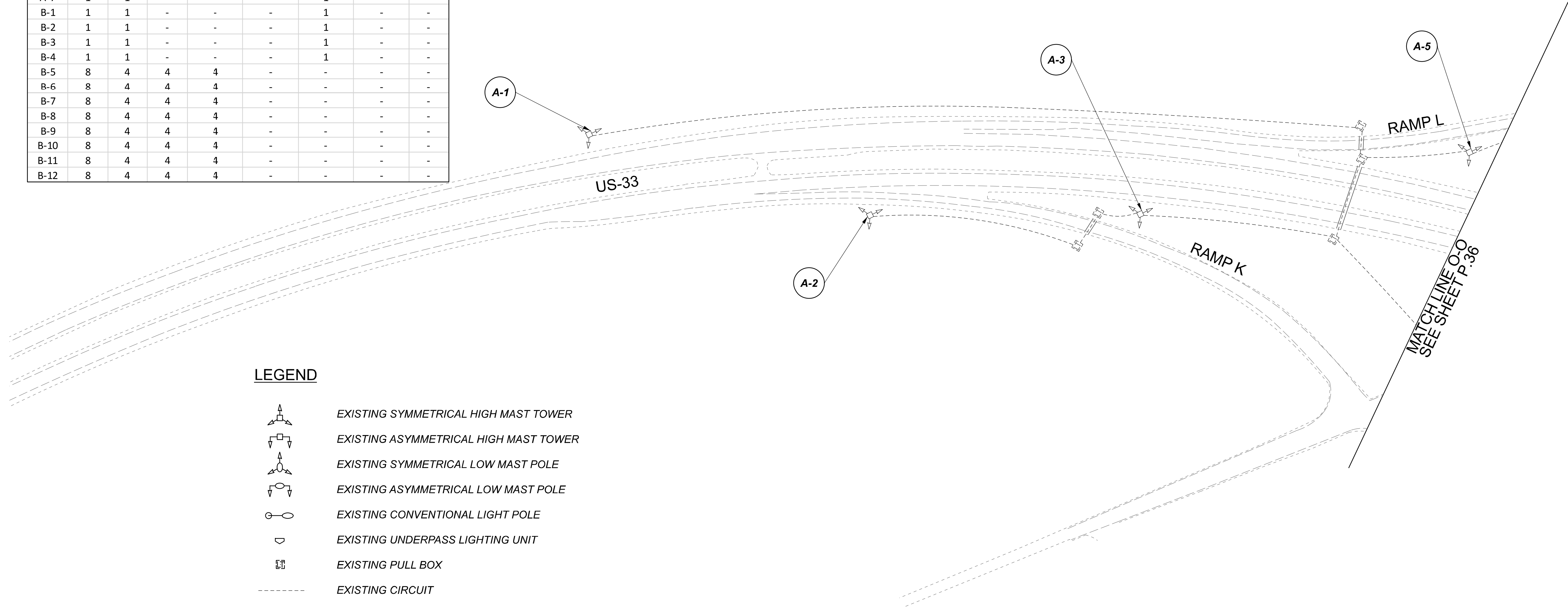
D05-Lighting Upgrade FY2021

MODEL SHEET PAPER SIZE: 34x22 (in.) DATE: 3/10/2022 TIME: 11:53 PM USER: vnunez
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POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE	LUMINAIRE, HIGH M/AST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, HIGH M/AST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 37-42k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 28-32k LUMENS, 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
A-1	8	4	4	4								
A-2	8	4	4	4								
A-3	8	4	4	4								
A-4	8	4	4	4								
A-5	8	4	4	4								
A-6	8	4	4	4								
A-7	1	1	-	-				1				
B-1	1	1	-	-				1				
B-2	1	1	-	-				1				
B-3	1	1	-	-				1				
B-4	1	1	-	-				1				
B-5	8	4	4	4								
B-6	8	4	4	4								
B-7	8	4	4	4								
B-8	8	4	4	4								
B-9	8	4	4	4								
B-10	8	4	4	4								
B-11	8	4	4	4								
B-12	8	4	4	4								

LEGEND

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER



Lighting Plan - Location 11
 US-33 and Tarklin Road

DESIGN AGENCY



DESIGNER

VN

REVIEWER

SG 03/11/22

PROJECT ID

112676

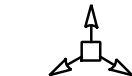
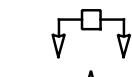
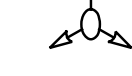



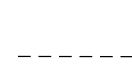
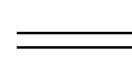
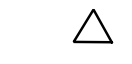

SUBSET TOTAL

1 3

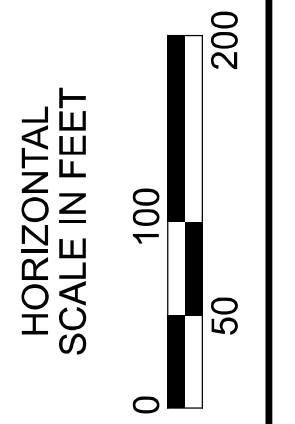
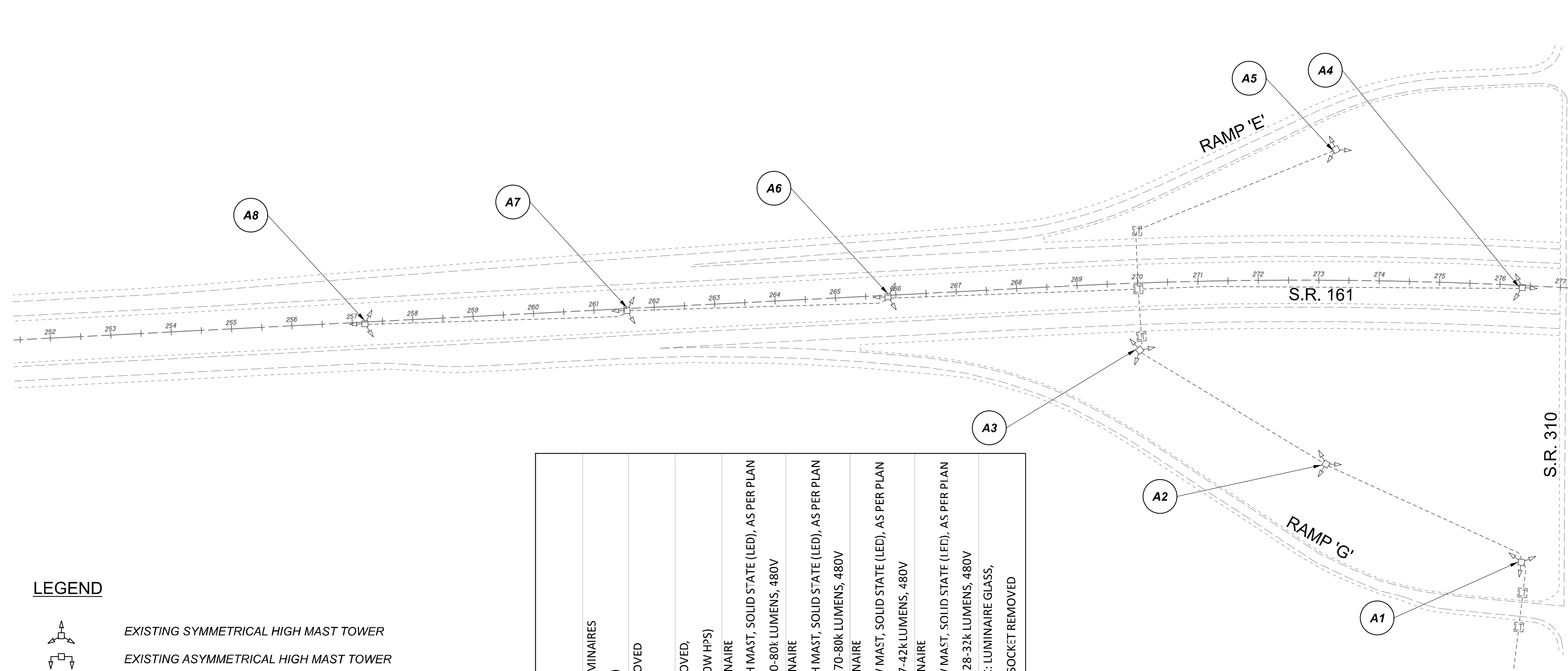
SHEET TOTAL

P.35 197

LEGEND

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER

POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN	SYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN	ASYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN	SYMMETRICAL, 37-42k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN	ASYMMETRICAL, 28-32k LUMENS, 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
A8	4	2	-	2	-	-	-	-	-	-	-	-	-	-	-	2
A7	4	2	-	2	-	-	-	-	-	-	-	-	-	-	-	2
A6	4	2	-	2	-	-	-	-	-	-	-	-	-	-	-	2
A5	4	2	-	2	-	-	-	-	-	-	-	-	-	-	-	2
A4	6	3	3	3	-	-	-	-	-	-	-	-	-	-	-	-
A3	6	3	3	3	-	-	-	-	-	-	-	-	-	-	-	-
A2	6	3	3	3	-	-	-	-	-	-	-	-	-	-	-	-
A1	6	3	3	3	-	-	-	-	-	-	-	-	-	-	-	-
B1	6	3	3	3	-	-	-	-	-	-	-	-	-	-	-	-
B2	6	3	3	3	-	-	-	-	-	-	-	-	-	-	-	-
B3	6	3	3	3	-	-	-	-	-	-	-	-	-	-	-	-
B4	4	2	-	2	-	-	-	-	-	-	-	-	-	-	-	2
B5	6	3	3	3	-	-	-	-	-	-	-	-	-	-	-	-
B6	4	2	-	2	-	-	-	-	-	-	-	-	-	-	-	2
B7	4	2	-	2	-	-	-	-	-	-	-	-	-	-	-	2
B8	4	2	-	2	-	-	-	-	-	-	-	-	-	-	-	2
B9	4	2	-	2	-	-	-	-	-	-	-	-	-	-	-	2



Lighting Plan - Location 12
 S.R. 161 and S.R. 310

DESIGN AGENCY	
SINGH SINGH & ASSOCIATES, INC. CONSULTING ENGINEERS	
DESIGNER	
VN	
REVIEWER	
SG 03/11/22	
PROJECT ID	
112676	
SUBSET	TOTAL
1	2
SHEET	
P.38	
TOTAL	
197	

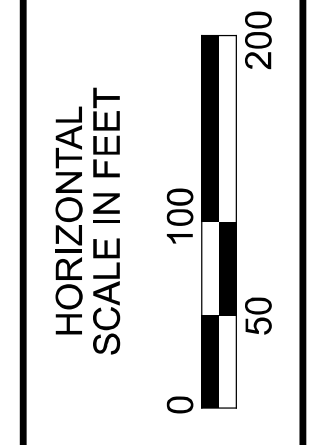
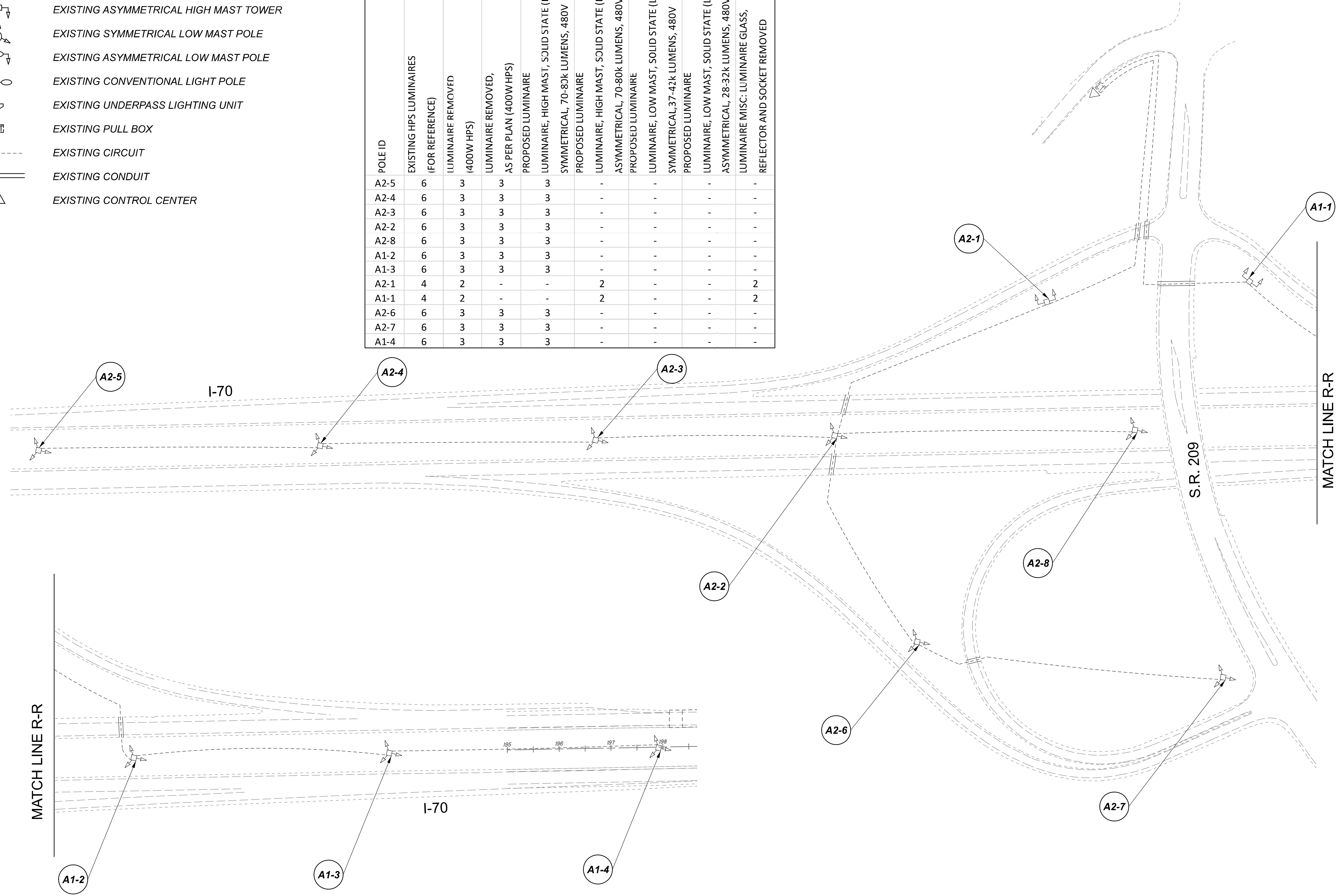
D05-Lighting Upgrade FY2021

MODEL Sheet PAPER SIZE 34x22 (in.) DATE: 3/10/2022 TIME: 10:41 PM USER: vrluniez
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LEGEND

- EXISTING SYMMETRICAL HIGH MAST TOWER
- EXISTING ASYMMETRICAL HIGH MAST TOWER
- EXISTING SYMMETRICAL LOW MAST POLE
- EXISTING ASYMMETRICAL LOW MAST POLE
- EXISTING CONVENTIONAL LIGHT POLE
- EXISTING UNDERPASS LIGHTING UNIT
- EXISTING PULL BOX
- EXISTING CIRCUIT
- EXISTING CONDUIT
- EXISTING CONTROL CENTER


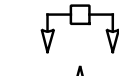
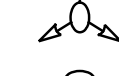
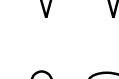



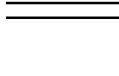
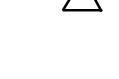

POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 70-80k LUMENS, 480V	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 70-80k LUMENS, 480V	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 37-42k LUMENS, 480V	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 28-32k LUMENS, 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
A2-5	6	3	3	3	-	-	-	-	-
A2-4	6	3	3	3	-	-	-	-	-
A2-3	6	3	3	3	-	-	-	-	-
A2-2	6	3	3	3	-	-	-	-	-
A2-8	6	3	3	3	-	-	-	-	-
A1-2	6	3	3	3	-	-	-	-	-
A1-3	6	3	3	3	-	-	-	-	-
A2-1	4	2	-	-	2	-	-	2	-
A1-1	4	2	-	-	2	-	-	2	-
A2-6	6	3	3	3	-	-	-	-	-
A2-7	6	3	3	3	-	-	-	-	-
A1-4	6	3	3	3	-	-	-	-	-



Lighting Plan - Location 13
 I-70 and S.R. 209

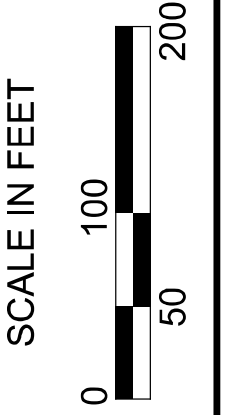
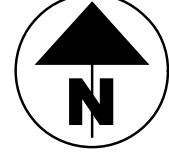
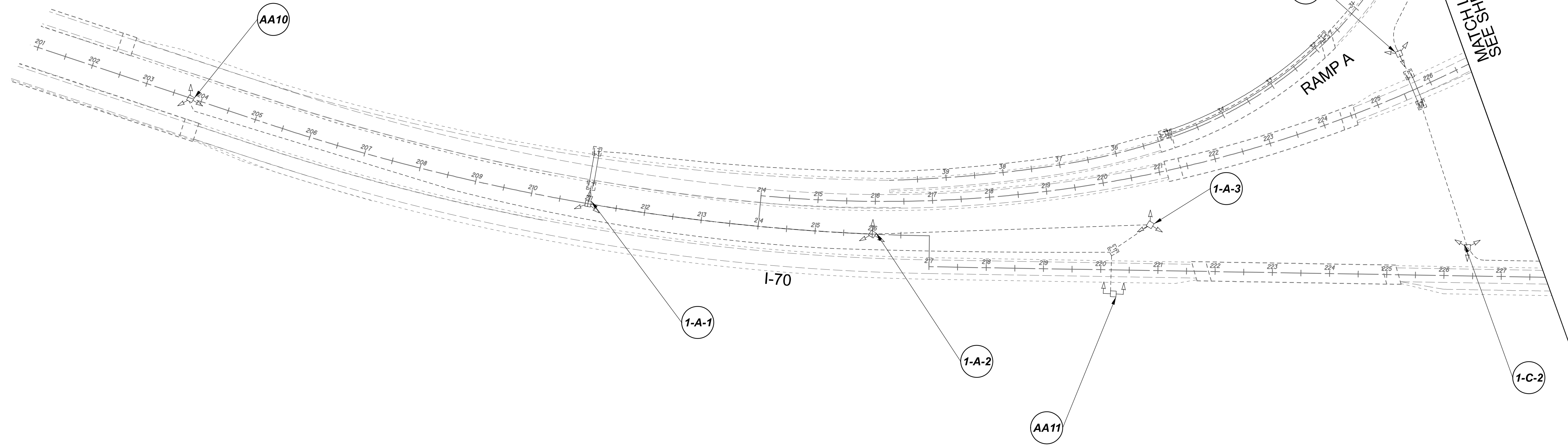
DESIGN AGENCY	
SINGH SINGH + ASSOCIATES, INC. CONSULTING ENGINEERS	
DESIGNER	
VN	
REVIEWER	
SG 03/11/22	
PROJECT ID	
112676	
SUBSET	TOTAL
1	1
SHEET	TOTAL
P.40	197

LEGEND

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER

POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN	SYMMETRICAL, 70-80k LUMENS, 480V PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN	ASYMMETRICAL, 70-80k LUMENS, 480V PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN	SYMMETRICAL, 42-47k LUMENS, 480V PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN	ASYMMETRICAL, 28-32k LUMENS, 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
AA-10	6	3	3	3	3	-	-	-	-	-	-	-	-
AA-11	4	2	-	2	-	-	-	-	-	-	-	-	2
1-A-1	6	3	3	3	-	-	-	-	-	-	-	-	-
1-A-2	6	3	3	3	-	-	-	-	-	-	-	-	-
1-A-3	6	3	3	3	-	-	-	-	-	-	-	-	-
1-C-4	4	2	-	2	-	-	-	-	-	-	-	-	2
1-C-3	4	2	-	2	-	-	-	-	-	-	-	-	2
1-C-2	4	2	-	2	-	-	-	-	-	-	-	-	2
1-C-1	4	2	-	2	-	-	-	-	-	-	-	-	2
1-B-5	4	2	-	2	-	-	-	-	-	-	-	-	2
1-B-6	4	2	-	2	-	-	-	-	-	-	-	-	2
2-E-6	4	2	-	2	-	-	-	-	-	-	-	-	2
2-E-5	4	2	-	2	-	-	-	-	-	-	-	-	2
2-E-4	6	3	3	3	-	-	-	-	-	-	-	-	-
2-F-4	4	2	-	2	-	-	-	-	-	-	-	-	2
2-F-1	4	2	-	2	-	-	-	-	-	-	-	-	2

2-E-3	4	2	-	2	-	-	-	-	-	-	-	-	2
2-E-2	6	3	3	3	-	-	-	-	-	-	-	-	-
2-E-1	6	3	3	3	-	-	-	-	-	-	-	-	-
1-C-5	6	3	3	3	-	-	-	-	-	-	-	-	-
1-C-6	4	2	-	2	-	-	-	-	-	-	-	-	2
1-C-7	4	2	-	2	-	-	-	-	-	-	-	-	2
1-B-2	4	2	-	2	-	-	-	-	-	-	-	-	2
1-B-1	4	2	-	2	-	-	-	-	-	-	-	-	2
1-B-3	4	2	-	2	-	-	-	-	-	-	-	-	2
1-C-8	4	2	-	2	-	-	-	-	-	-	-	-	2
1-D-6	6	3	3	3	-	-	-	-	-	-	-	-	-
1-D-1	4	2	-	2	-	-	-	-	-	-	-	-	2
1-D-2	4	2	-	2	-	-	-	-	-	-	-	-	2
1-D-3	6	3	3	3	-	-	-	-	-	-	-	-	-
1-D-4	4	2	-	2	-	-	-	-	-	-	-	-	2
1-D-5	4	2	-	2	-	-	-	-	-	-	-	-	2
1-R-4	4	2	-	2	-	-	-	-	-	-	-	-	2
1-B-7	4	2	-	2	-	-	-	-	-	-	-	-	2
2-F-5	4	2	-	2	-	-	-	-	-	-	-	-	2
2-F-3	6	3	3	3	-	-	-	-	-	-	-	-	-
2-F-2	4	2	-	2	-	-	-	-	-	-	-	-	2
2-G-2	6	3	3	3	-	-	-	-	-	-	-	-	-
2-G-3	6	3	3	3	-	-	-	-	-	-	-	-	-
2-G-1	6	3	3	3	-	-	-	-	-	-	-	-	-
2-H-1	4	2	-	2	-	-	-	-	-	-	-	-	2
2-F-6	4	2	-	2	-	-	-	-	-	-	-	-	2
2-H-4	6	3	3	3	-	-	-	-	-	-	-	-	-
2-H-3	6	3	3	3	-	-	-	-	-	-	-	-	-
2-H-2	4	2	-	2	-	-	-	-	-	-	-	-	2



Lighting Plan - Location 14
I-70 and I-77

DESIGN AGENCY

SINGH
SINGH & ASSOCIATES, INC.
CONSULTING ENGINEERS

DESIGNER
VN

REVIEWER
SG 03/11/22

PROJECT ID
112676

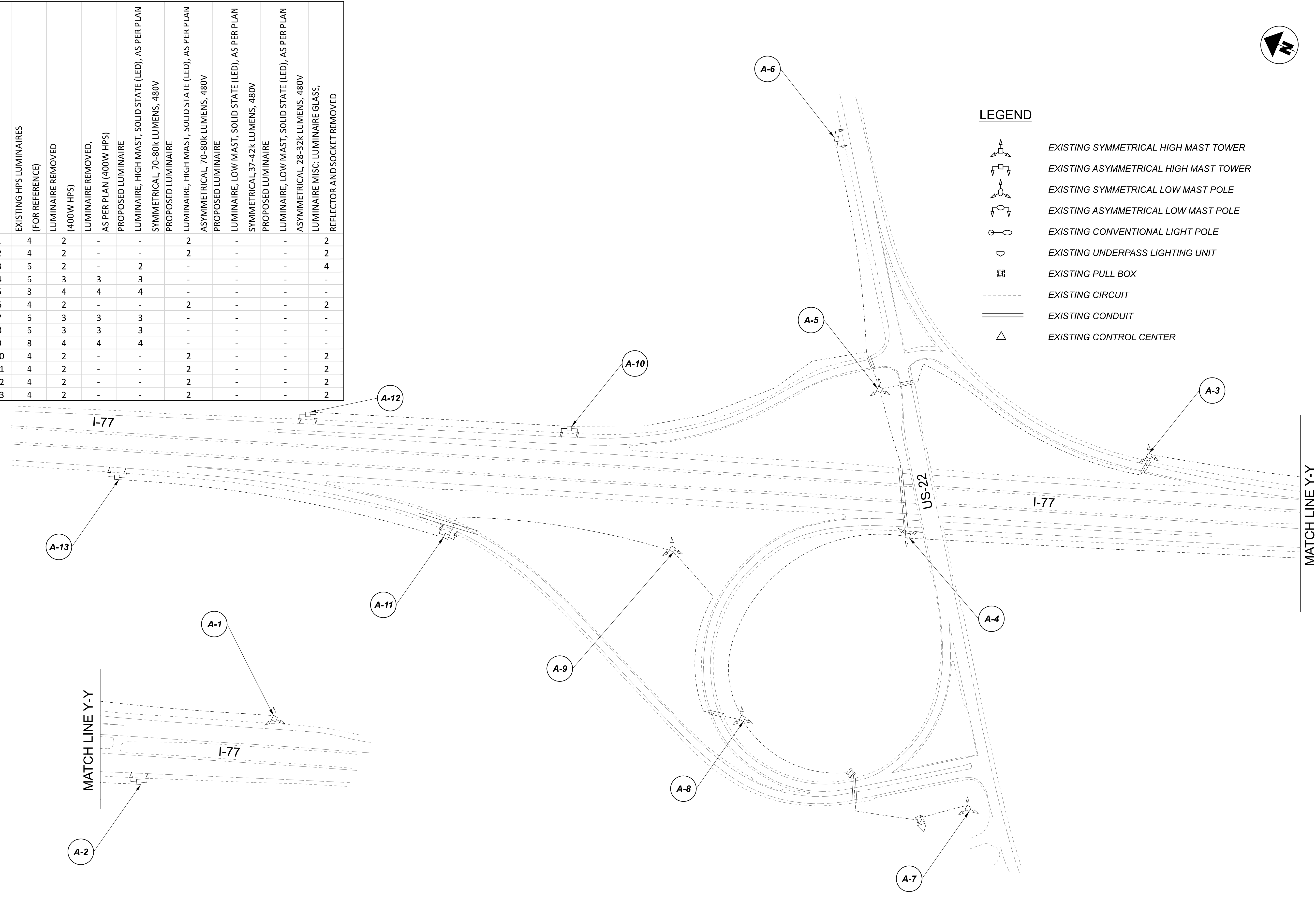
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SHEET	TOTAL
P.41	197

D05-Lighting Upgrade FY2021

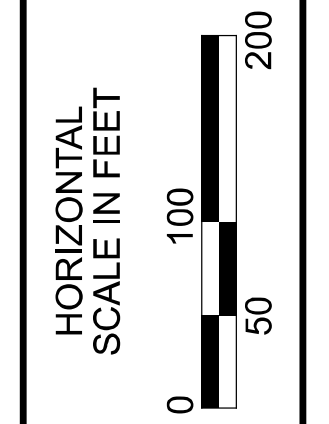
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POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 37-42k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 28-32k LUMENS, 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
A-1	4	2	-	-	-	2	-	-	-	-	-	2
A-2	4	2	-	-	-	2	-	-	-	-	-	2
A-3	6	2	-	2	-	-	-	-	-	-	-	4
A-4	6	3	3	3	-	-	-	-	-	-	-	-
A-5	8	4	4	4	-	-	-	-	-	-	-	-
A-6	4	2	-	-	-	2	-	-	-	-	-	2
A-7	6	3	3	3	-	-	-	-	-	-	-	-
A-8	6	3	3	3	-	-	-	-	-	-	-	-
A-9	8	4	4	4	-	-	-	-	-	-	-	-
A-10	4	2	-	-	-	2	-	-	-	-	-	2
A-11	4	2	-	-	-	2	-	-	-	-	-	2
A-12	4	2	-	-	-	2	-	-	-	-	-	2
A-13	4	2	-	-	-	2	-	-	-	-	-	2



LEGEND

- EXISTING SYMMETRICAL HIGH MAST TOWER
- EXISTING ASYMMETRICAL HIGH MAST TOWER
- EXISTING SYMMETRICAL LOW MAST POLE
- EXISTING ASYMMETRICAL LOW MAST POLE
- EXISTING CONVENTIONAL LIGHT POLE
- EXISTING UNDERPASS LIGHTING UNIT
- EXISTING PULL BOX
- EXISTING CIRCUIT
- EXISTING CONDUIT
- EXISTING CONTROL CENTER



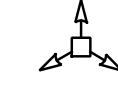
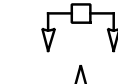
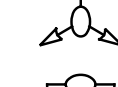



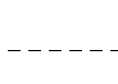
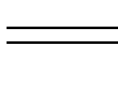
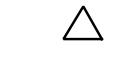

Lighting Plan - Location 15
 I-77 and US-22

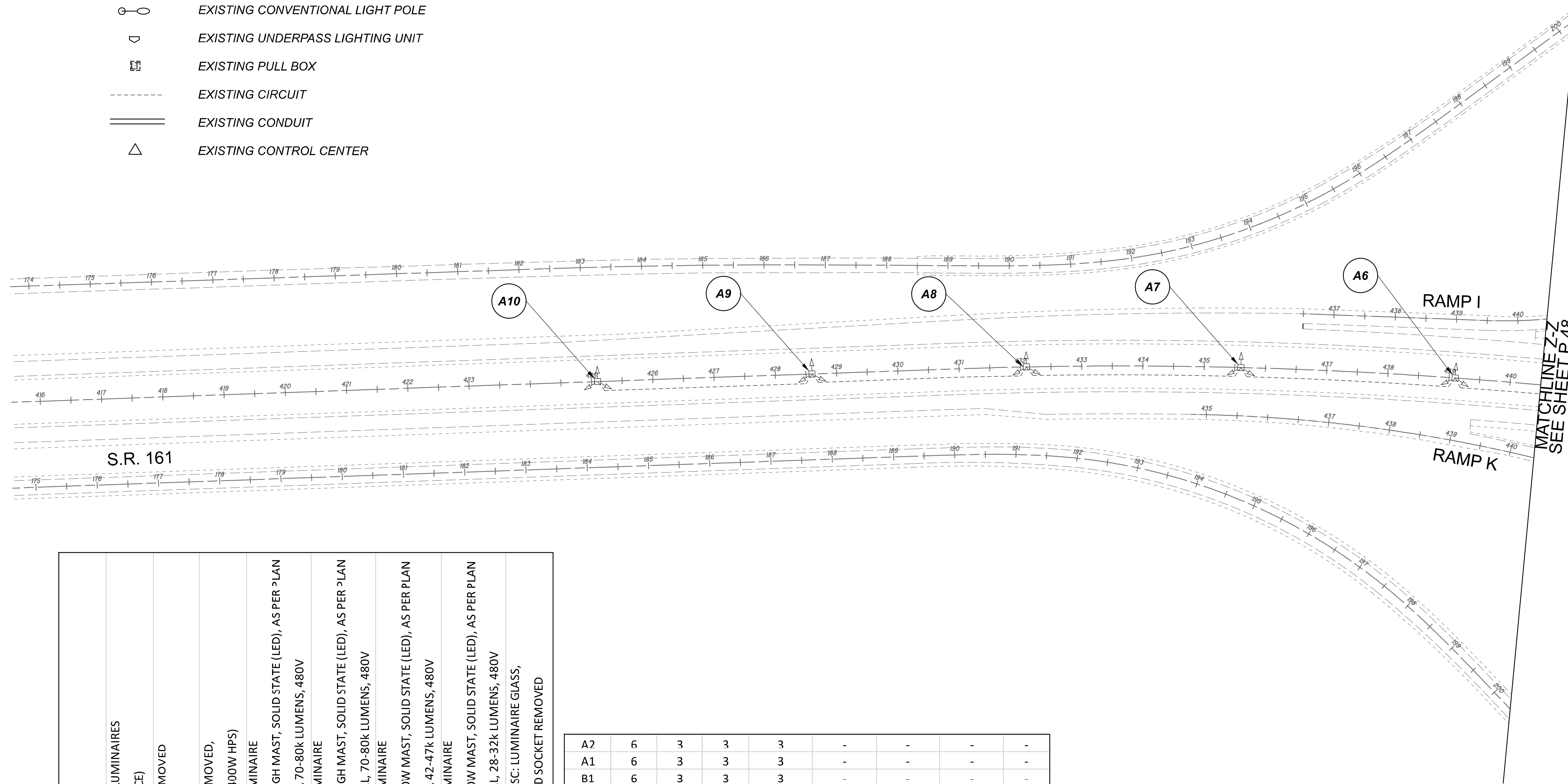
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SINGH SINGH & ASSOCIATES, INC. CONSULTING ENGINEERS	
DESIGNER	
VN	
REVIEWER	
SG 03/11/22	
PROJECT ID	
112676	
SUBSET	TOTAL
1	1
SHEET	TOTAL
P.46	197

D05-Lighting Upgrade FY2021

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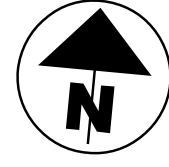
LEGEND

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER



POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 42-47k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 28-32k LUMENS, 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
A10	4	2	-	2	-	-	-	-	-	-	-	2
A9	4	2	-	2	-	-	-	-	-	-	-	2
A8	4	2	-	2	-	-	-	-	-	-	-	2
A7	4	2	-	2	-	-	-	-	-	-	-	2
A6	6	2	-	-	2	-	-	-	-	-	-	4
A5	6	2	-	-	2	-	-	-	-	-	-	4
A4	6	3	3	3	-	-	-	-	-	-	-	-
A3	6	3	3	3	-	-	-	-	-	-	-	-

A2	5	3	3	3	-	-	-	-	-	-	-	-
A1	6	3	3	3	-	-	-	-	-	-	-	-
B1	6	3	3	3	-	-	-	-	-	-	-	-
B2	6	3	3	3	-	-	-	-	-	-	-	-
B3	6	3	3	3	-	-	-	-	-	-	-	-
B4	6	3	3	3	-	-	-	-	-	-	-	-
B5	6	2	-	-	2	-	-	-	-	-	-	4
B6	6	2	-	-	2	-	-	-	-	-	-	4
B7	4	2	-	2	-	-	-	-	-	-	-	2
B8	4	2	-	2	-	-	-	-	-	-	-	2
B9	4	2	-	2	-	-	-	-	-	-	-	2
B10	4	2	-	2	-	-	-	-	-	-	-	2
B11	4	2	-	2	-	-	-	-	-	-	-	2




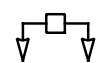
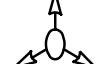
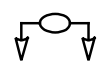
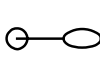



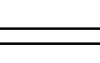

Lighting Plan - Location 16
 S.R. 161 and S.R. 37

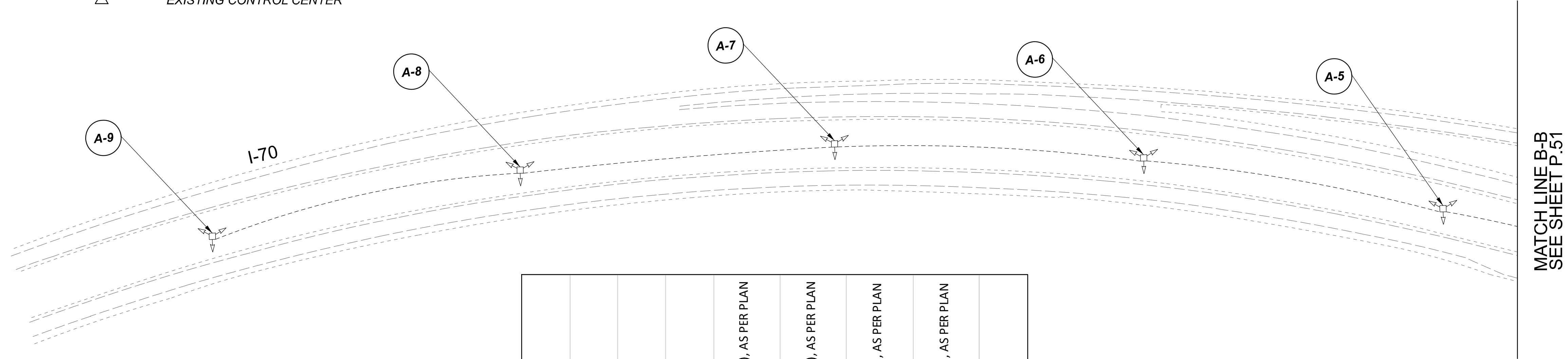
DESIGN AGENCY	
SINGH SINGH + ASSOCIATES, INC. CONSULTING ENGINEERS	
DESIGNER	
VN	
REVIEWER	
SG 03/11/22	
PROJECT ID	
112676	
SUBSET	TOTAL
1	3
SHEET	
P.47	
TOTAL	
197	

D05-Lighting Upgrade FY2021

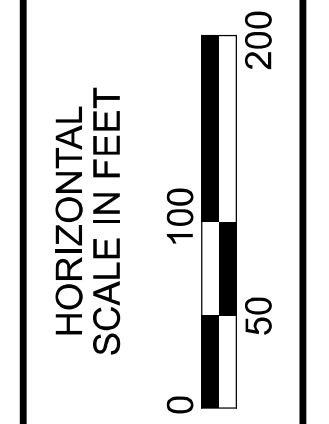
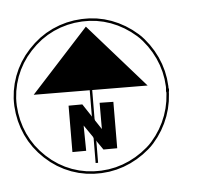
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LEGEND

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER



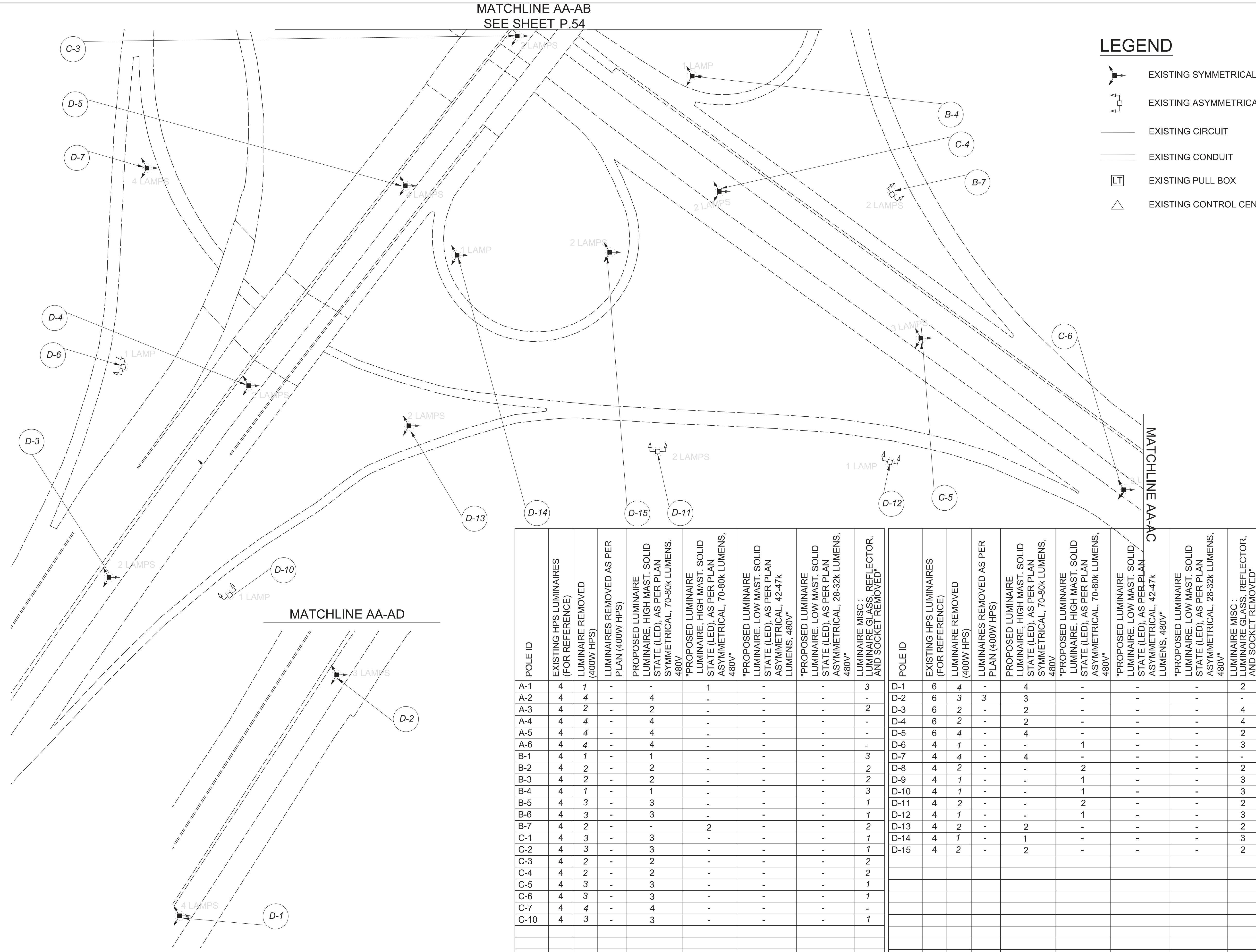
POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN	SYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN	ASYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN	SYMMETRICAL, 37-42k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN	ASYMMETRICAL, 28-32k LUMENS, 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
A-9	4	2	-	2	-	-	-	-	-	-	-	-	-	-	-	2
A-8	4	2	-	2	-	-	-	-	-	-	-	-	-	-	-	2
A-7	4	2	-	2	-	-	-	-	-	-	-	-	-	-	-	2
A-6	4	2	-	2	-	-	-	-	-	-	-	-	-	-	-	2
A-5	4	2	-	2	-	-	-	-	-	-	-	-	-	-	-	2
A-4	6	3	3	3	-	-	-	-	-	-	-	-	-	-	-	-
A-3	6	4	-	4	-	-	-	-	-	-	-	-	-	-	-	2
A-2	6	4	-	4	-	-	-	-	-	-	-	-	-	-	-	2
A-1	6	4	-	4	-	-	-	-	-	-	-	-	-	-	-	2
B-1	6	4	-	4	-	-	-	-	-	-	-	-	-	-	-	2
B-2	6	3	3	3	-	-	-	-	-	-	-	-	-	-	-	-
B-3	4	2	-	2	-	-	-	-	-	-	-	-	-	-	-	2
B-4	4	2	-	2	-	-	-	-	-	-	-	-	-	-	-	2
B-5	4	2	-	2	-	-	-	-	-	-	-	-	-	-	-	2
B-6	4	2	-	2	-	-	-	-	-	-	-	-	-	-	-	2



Lighting Plan - Location 17
I-70 and US-40

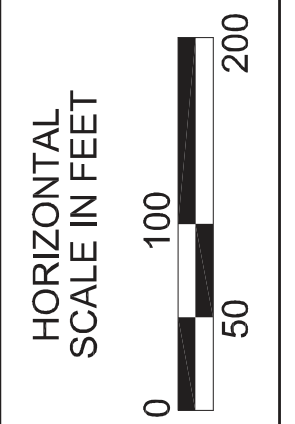
DESIGN AGENCY	SINGH SINGH & ASSOCIATES, INC. CONSULTING ENGINEERS	
DESIGNER	VN	
REVIEWER	SG 03/11/22	
PROJECT ID	112676	
SUBSET	TOTAL	
1	3	
SHEET	TOTAL	
P.50	197	

MATCH LINE B-B
SEE SHEET P.51



LEGEND

- EXISTING SYMMETRICAL HIGH MAST TOWER
- EXISTING ASYMMETRICAL HIGH MAST TOWER
- EXISTING CIRCUIT
- EXISTING CONDUIT
- EXISTING PULL BOX
- EXISTING CONTROL CENTER



POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRES REMOVED AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 70-80k LUMENS, 480V	"PROPOSED LUMINAIRE LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 70-80k LUMENS, 480V"	"PROPOSED LUMINAIRE LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 42-47k LUMENS, 480V"	"PROPOSED LUMINAIRE LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 28-32k LUMENS, 480V"	LUMINAIRE MISC : LUMINAIRE GLASS, REFLECTOR, AND SOCKET REMOVED"
A-1	4	1	-	-	-	1	-	3
A-2	4	4	-	4	-	-	-	-
A-3	4	2	-	2	-	-	-	2
A-4	4	4	-	4	-	-	-	-
A-5	4	4	-	4	-	-	-	-
A-6	4	4	-	4	-	-	-	-
B-1	4	1	-	1	-	-	-	3
B-2	4	2	-	2	-	-	-	2
B-3	4	2	-	2	-	-	-	2
B-4	4	1	-	1	-	-	-	3
B-5	4	3	-	3	-	-	-	1
B-6	4	3	-	3	-	-	-	1
B-7	4	2	-	-	2	-	-	2
C-1	4	3	-	3	-	-	-	1
C-2	4	3	-	3	-	-	-	1
C-3	4	2	-	2	-	-	-	2
C-4	4	2	-	2	-	-	-	2
C-5	4	3	-	3	-	-	-	1
C-6	4	3	-	3	-	-	-	1
C-7	4	4	-	4	-	-	-	-
C-10	4	3	-	3	-	-	-	1
D-1	6	4	-	4	-	-	-	2
D-2	6	3	3	3	-	-	-	-
D-3	6	2	-	2	-	-	-	4
D-4	6	2	-	2	-	-	-	4
D-5	6	4	-	4	-	-	-	2
D-6	4	1	-	-	1	-	-	3
D-7	4	4	-	4	-	-	-	-
D-8	4	2	-	-	2	-	-	2
D-9	4	1	-	-	1	-	-	3
D-10	4	1	-	-	1	-	-	3
D-11	4	2	-	-	2	-	-	2
D-12	4	1	-	-	1	-	-	3
D-13	4	2	-	2	-	-	-	2
D-14	4	1	-	1	-	-	-	3
D-15	4	2	-	2	-	-	-	2

POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRES REMOVED AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 70-80k LUMENS, 480V	"PROPOSED LUMINAIRE LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 70-80k LUMENS, 480V"	"PROPOSED LUMINAIRE LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 42-47k LUMENS, 480V"	LUMINAIRE MISC : LUMINAIRE GLASS, REFLECTOR, AND SOCKET REMOVED"
D-1	6	4	-	4	-	-	-
D-2	6	3	3	3	-	-	-
D-3	6	2	-	2	-	-	-
D-4	6	2	-	2	-	-	-
D-5	6	4	-	4	-	-	-
D-6	4	1	-	-	1	-	-
D-7	4	4	-	4	-	-	-
D-8	4	2	-	-	2	-	-
D-9	4	1	-	-	1	-	-
D-10	4	1	-	-	1	-	-
D-11	4	2	-	-	2	-	-
D-12	4	1	-	-	1	-	-
D-13	4	2	-	2	-	-	-
D-14	4	1	-	1	-	-	-
D-15	4	2	-	2	-	-	-

Lighting Plan - Locations D06-18
I-270 and I-71

DESIGN AGENCY



DESIGNER
DT

REVIEWER
ES 03/11/22

PROJECT ID
112676

SUBSET	TOTAL
1	2

SHEET	TOTAL
P.53	197

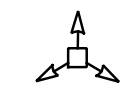
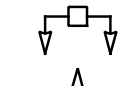
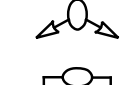
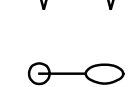






D06-Lighting Upgrade FY2021

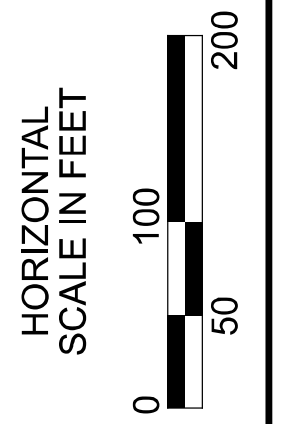
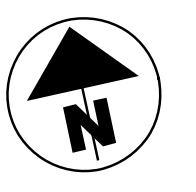
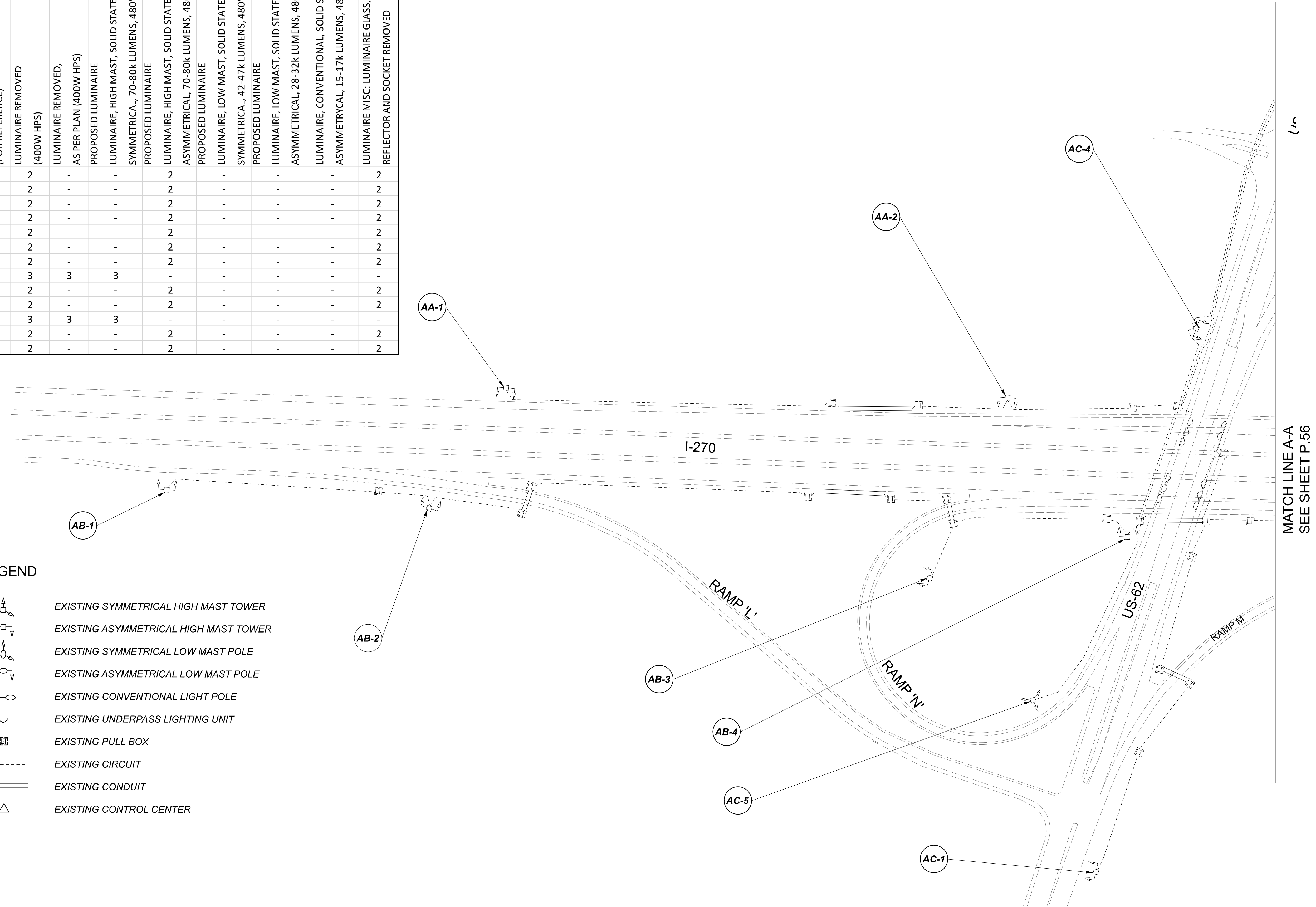
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POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 42-47k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 28-32k LUMENS, 480V	LUMINAIRE, CONVENTIONAL, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 15-17k LUMENS, 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
AA1	4	2	-	-	-	2	-	-	-	-	-	-	2
AA2	4	2	-	-	-	2	-	-	-	-	-	-	2
AA3	4	2	-	-	-	2	-	-	-	-	-	-	2
AA4	4	2	-	-	-	2	-	-	-	-	-	-	2
AA5	4	2	-	-	-	2	-	-	-	-	-	-	2
AA6	4	2	-	-	-	2	-	-	-	-	-	-	2
AC1	4	2	-	-	-	2	-	-	-	-	-	-	2
AC2	6	3	3	3	-	-	-	-	-	-	-	-	-
AC3	4	2	-	-	-	2	-	-	-	-	-	-	2
AC4	4	2	-	-	-	2	-	-	-	-	-	-	2
AC5	6	3	3	3	-	-	-	-	-	-	-	-	-
AB1	4	2	-	-	-	2	-	-	-	-	-	-	2
AB2	4	2	-	-	-	2	-	-	-	-	-	-	2

AB3	4	2	-	-	-	2	-	-	-	-	-	-	2
AB4	4	2	-	-	-	2	-	-	-	-	-	-	2
AB6	4	2	-	-	-	2	-	-	-	-	-	-	2
AB7	4	2	-	-	-	2	-	-	-	-	-	-	2
AB8	4	2	-	-	-	2	-	-	-	-	-	-	2

LEGEND

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER



Lighting Plan - Location 19
I-270 and I-71

DESIGN AGENCY	
SINGH SINGH + ASSOCIATES, INC. CONSULTING ENGINEERS	
DESIGNER	VN
REVIEWER	SG 03/11/22
PROJECT ID	112676
SUBSET	TOTAL
1	2
SHEET	TOTAL
P.55	197


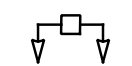

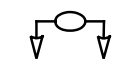
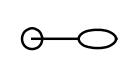


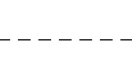
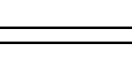

MATCH LINE A-A
SEE SHEET P.56

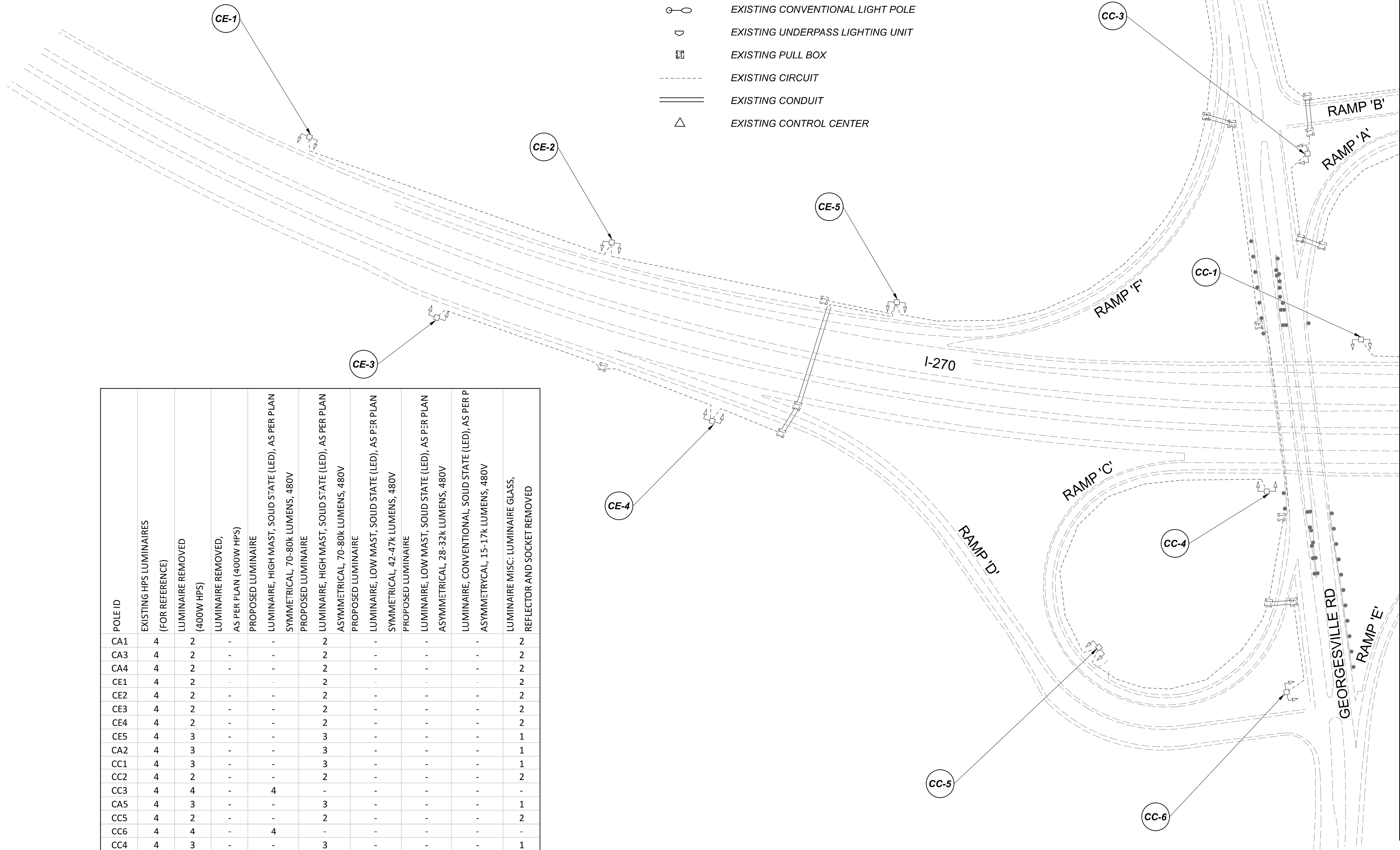
D06-Lighting Upgrade FY2021

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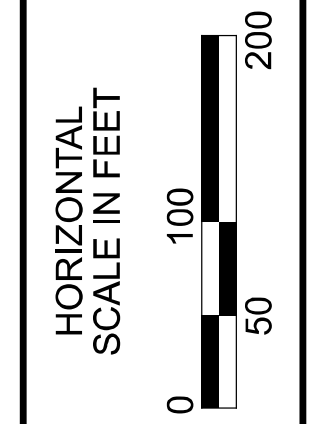
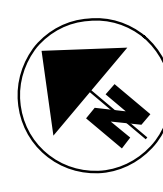
POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN	SYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN	ASYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN	SYMMETRICAL, 42-47k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN	ASYMMETRICAL, 28-32k LUMENS, 480V	LUMINAIRE, CONVENTIONAL, SOLID STATE (LED), AS PER PLAN	ASYMMETRICAL, 15-17k LUMENS, 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
CA1	4	2	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	2
CA3	4	2	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	2
CA4	4	2	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	2
CE1	4	2	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	2
CE2	4	2	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	2
CE3	4	2	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	2
CE4	4	2	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	2
CE5	4	3	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	1
CA2	4	3	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	1
CC1	4	3	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	1
CC2	4	2	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	2
CC3	4	4	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-
CA5	4	3	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	1
CC5	4	2	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	2
CC6	4	4	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-
CC4	4	3	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	1

LEGEND

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER



MATCH LINE B-B
SEE SHEET P.58



Lighting Plan - Location 20
I-270 and Georgesville Road

DESIGN AGENCY	
SINGH SINGH + ASSOCIATES, INC. CONSULTING ENGINEERS	
DESIGNER	
VN	
REVIEWER	
SG 03/11/22	
PROJECT ID	
112676	
SUBSET	TOTAL
1	2
SHEET	
P.57	
TOTAL	
197	











D06-Lighting Upgrade FY2021

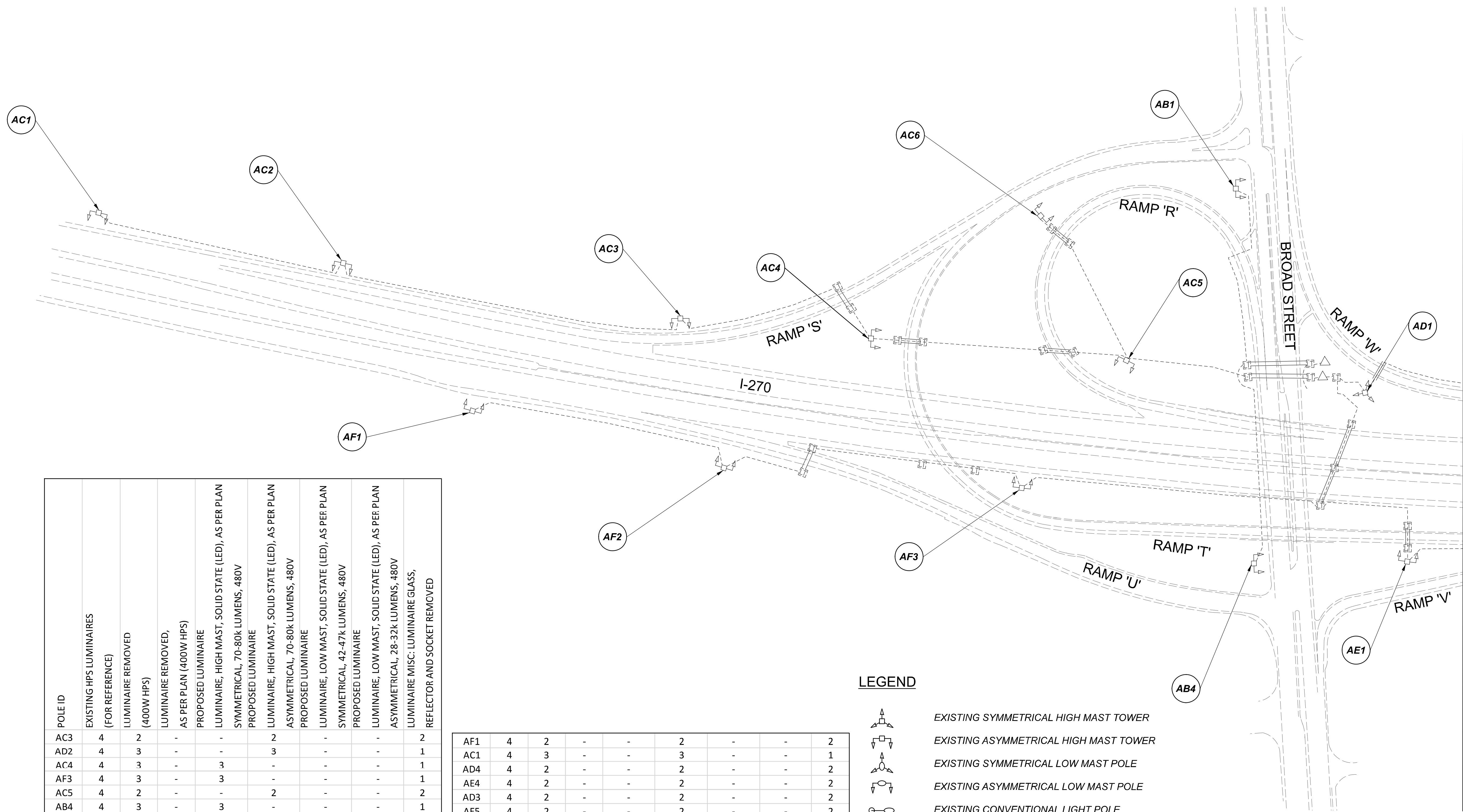
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POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 42-47k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 28-32k LUMENS, 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
AC3	4	2	-	-	-	2	-	-	-	-	2	-
AD2	4	3	-	-	-	3	-	-	-	-	1	-
AC4	4	3	-	3	-	-	-	-	-	-	1	-
AF3	4	3	-	3	-	-	-	-	-	-	1	-
AC5	4	2	-	-	-	2	-	-	-	-	2	-
AB4	4	3	-	3	-	-	-	-	-	-	1	-
AE1	4	3	-	-	-	3	-	-	-	-	1	-
AE2	4	2	-	-	-	2	-	-	-	-	2	-
AE3	4	2	-	-	-	2	-	-	-	-	2	-
AD5	4	2	-	-	-	2	-	-	-	-	2	-
AD1	6	3	3	3	-	-	-	-	-	-	-	-
AB1	4	3	-	3	-	-	-	-	-	-	1	-
AC6	4	3	-	3	-	-	-	-	-	-	1	-
AF2	4	2	-	-	-	2	-	-	-	-	2	-
AC2	4	3	-	-	-	3	-	-	-	-	1	-

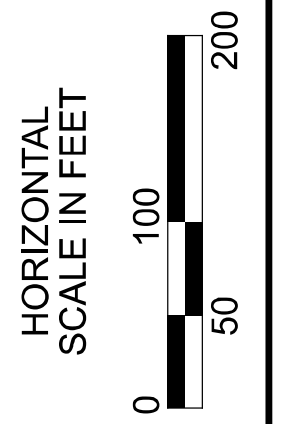
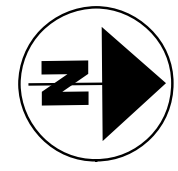
AF1	4	2	-	-	2	-	-	2
AC1	4	3	-	-	3	-	-	1
AD4	4	2	-	-	2	-	-	2
AE4	4	2	-	-	2	-	-	2
AD3	4	2	-	-	2	-	-	2
AE5	4	2	-	-	2	-	-	2

LEGEND

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER



MATCH LINE C-C
SEE SHEET P.60



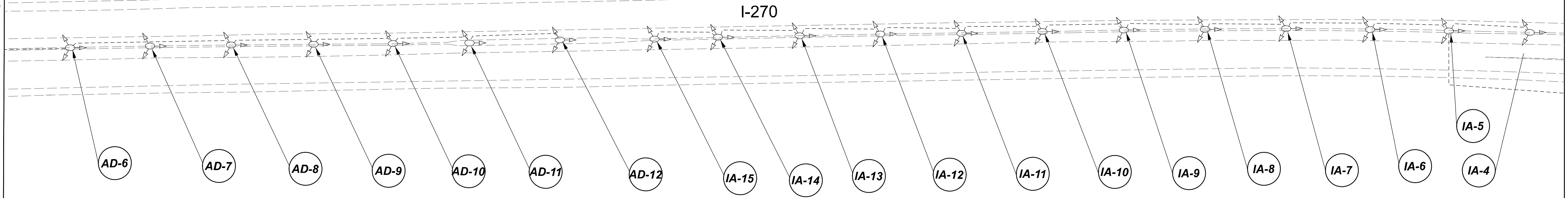
Lighting Plan - Location 21
I-270 and US-40

DESIGN AGENCY	
SINGH SINGH & ASSOCIATES, INC. CONSULTING ENGINEERS	
DESIGNER	VN
REVIEWER	SG 03/11/22
PROJECT ID	112676
SUBSET	TOTAL
1	2
SHEET	TOTAL
P.59	197

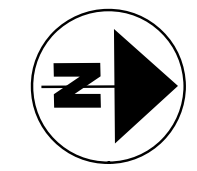
D06-Lighting Upgrade FY2021

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MATCH LINE D-D
SEE SHEET P.60



MATCH LINE E-E
SEE SHEET P.62



POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 42-47k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 28-32k LUMENS, 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
AD-6	1	1	-	-	-	-	-	1	-	-	-	-
AD-7	1	1	-	-	-	-	-	1	-	-	-	-
AD-8	1	1	-	-	-	-	-	1	-	-	-	-
AD-9	1	1	-	-	-	-	-	1	-	-	-	-
AD-10	1	1	-	-	-	-	-	1	-	-	-	-
AD-11	1	1	-	-	-	-	-	1	-	-	-	-
AD-12	1	1	-	-	-	-	-	1	-	-	-	-
IA-15	1	1	-	-	-	-	-	1	-	-	-	-
IA-14	1	1	-	-	-	-	-	1	-	-	-	-
IA-13	1	1	-	-	-	-	-	1	-	-	-	-
IA-12	1	1	-	-	-	-	-	1	-	-	-	-
IA-11	1	1	-	-	-	-	-	1	-	-	-	-
IA-10	1	1	-	-	-	-	-	1	-	-	-	-
IA-9	1	1	-	-	-	-	-	1	-	-	-	-
IA-8	1	1	-	-	-	-	-	1	-	-	-	-
IA-7	1	1	-	-	-	-	-	1	-	-	-	-
IA-6	1	1	-	-	-	-	-	1	-	-	-	-
IA-5	1	1	-	-	-	-	-	1	-	-	-	-
IA-4	1	1	-	-	-	-	-	1	-	-	-	-


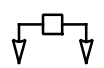

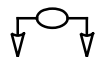
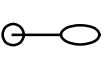


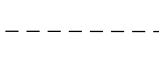
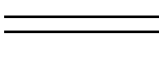

LEGEND

- EXISTING SYMMETRICAL HIGH MAST TOWER
- EXISTING ASYMMETRICAL HIGH MAST TOWER
- EXISTING SYMMETRICAL LOW MAST POLE
- EXISTING ASYMMETRICAL LOW MAST POLE
- EXISTING CONVENTIONAL LIGHT POLE
- EXISTING UNDERPASS LIGHTING UNIT
- EXISTING PULL BOX
- EXISTING CIRCUIT
- EXISTING CONDUIT
- EXISTING CONTROL CENTER

Lighting Plan - Location 22
I-270 - US-40 to I-70

DESIGN AGENCY	
SINGH SINGH + ASSOCIATES, INC. CONSULTING ENGINEERS	
DESIGNER	
VN	
REVIEWER	
SG 03/11/22	
PROJECT ID	
112676	
SUBSET	TOTAL
1	1
SHEET	TOTAL
P.61	197

LEGEND

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER

POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 60-69k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 60-69k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 42-47k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 28-32k LUMENS, 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
H-2	4	3	-	-	-	3	-	-	-	-	-	1
H-1	4	2	-	-	-	2	-	-	-	-	-	2
A-2	4	3	-	-	-	3	-	-	-	-	-	1
B-1	4	2	-	-	-	2	-	-	-	-	-	2
A-3	4	3	-	-	-	3	-	-	-	-	-	1
B-2	4	2	-	-	-	2	-	-	-	-	-	2
B-3	4	2	-	-	-	2	-	-	-	-	-	2

C-9	6	3	3	3	-	-	-	-	-	-	-	-
G-6	6	2	-	2	-	-	-	-	-	-	-	4
C-8	6	2	-	2	-	-	-	-	-	-	-	4
C-7	6	3	3	3	-	-	-	-	-	-	-	-
G-5	6	3	3	3	-	-	-	-	-	-	-	-
G-4	4	2	-	2	-	-	-	-	-	-	-	2
C-6	4	2	-	-	2	-	-	-	-	-	-	2
C-5	4	2	-	-	2	-	-	-	-	-	-	2
C-4	4	2	-	-	2	-	-	-	-	-	-	2
C-2	4	2	-	-	2	-	-	-	-	-	-	2
C-3	4	2	-	-	2	-	-	-	-	-	-	2
C-1	4	2	-	-	2	-	-	-	-	-	-	2
A-1	4	2	-	-	2	-	-	-	-	-	-	2
E-1	4	2	-	-	2	-	-	-	-	-	-	2
D-1	4	2	-	2	-	-	-	-	-	-	-	2
E-2	4	2	-	-	2	-	-	-	-	-	-	2
D-2	4	2	-	-	2	-	-	-	-	-	-	2
D-9	4	2	-	2	-	-	-	-	-	-	-	2
D-10	4	2	-	2	-	-	-	-	-	-	-	2
D-4	4	2	-	-	2	-	-	-	-	-	-	2
D-7	4	3	-	3	-	-	-	-	-	-	-	1
D-8	4	3	-	-	3	-	-	-	-	-	-	1
D-3	4	2	-	-	2	-	-	-	-	-	-	2
D-6	4	2	-	-	2	-	-	-	-	-	-	2
F-5	4	2	-	-	2	-	-	-	-	-	-	2
F-6	4	2	-	2	-	-	-	-	-	-	-	2
G-3	4	2	-	-	2	-	-	-	-	-	-	2

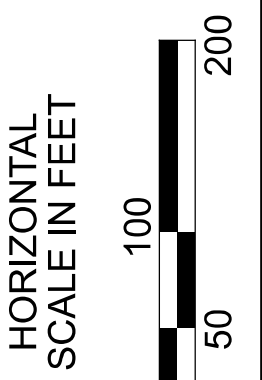
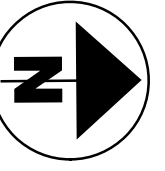
G-2	4	2	-	-	-	2	-	-	-	-	-	2
G-1	4	2	-	-	-	2	-	-	-	-	-	2
F-4	4	2	-	-	-	2	-	-	-	-	-	2
F-3	4	2	-	-	-	2	-	-	-	-	-	2
F-2	4	2	-	-	-	2	-	-	-	-	-	2
F-1	4	3	-	-	-	3	-	-	-	-	-	1
B-10	4	3	-	-	-	3	-	-	-	-	-	1
B-9	4	2	-	-	-	2	-	-	-	-	-	2
B-8	4	2	-	-	-	2	-	-	-	-	-	2
B-7	4	2	-	-	2	-	-	-	-	-	-	2
B-6	4	2	-	-	-	2	-	-	-	-	-	2
B-5	4	2	-	-	-	2	-	-	-	-	-	2
B-4	4	2	-	-	-	2	-	-	-	-	-	2
F-7	4	2	-	-	-	2	-	-	-	-	-	2
E-7	4	2	-	-	-	2	-	-	-	-	-	2
E-8	4	2	-	-	-	2	-	-	-	-	-	2
E-9	4	2	-	-	-	2	-	-	-	-	-	2
E-6	4	3	-	-	-	3	-	-	-	-	-	1
E-5	4	2	-	-	-	2	-	-	-	-	-	2
E-4	4	2	-	-	-	2	-	-	-	-	-	2
E-3	4	2	-	-	-	2	-	-	-	-	-	2
D-5	4	2	-	-	-	2	-	-	-	-	-	2
D-11	4	2	-	-	-	2	-	-	-	-	-	2
C1-1	1	1	-	-	-	-	-	-	-	1	-	-
C1-2	1	1	-	-	-	-	-	-	-	1	-	-

MATCH LINE E-E
SEE SHEET P.61

MATCH LINE F-F
SEE SHEET P.63

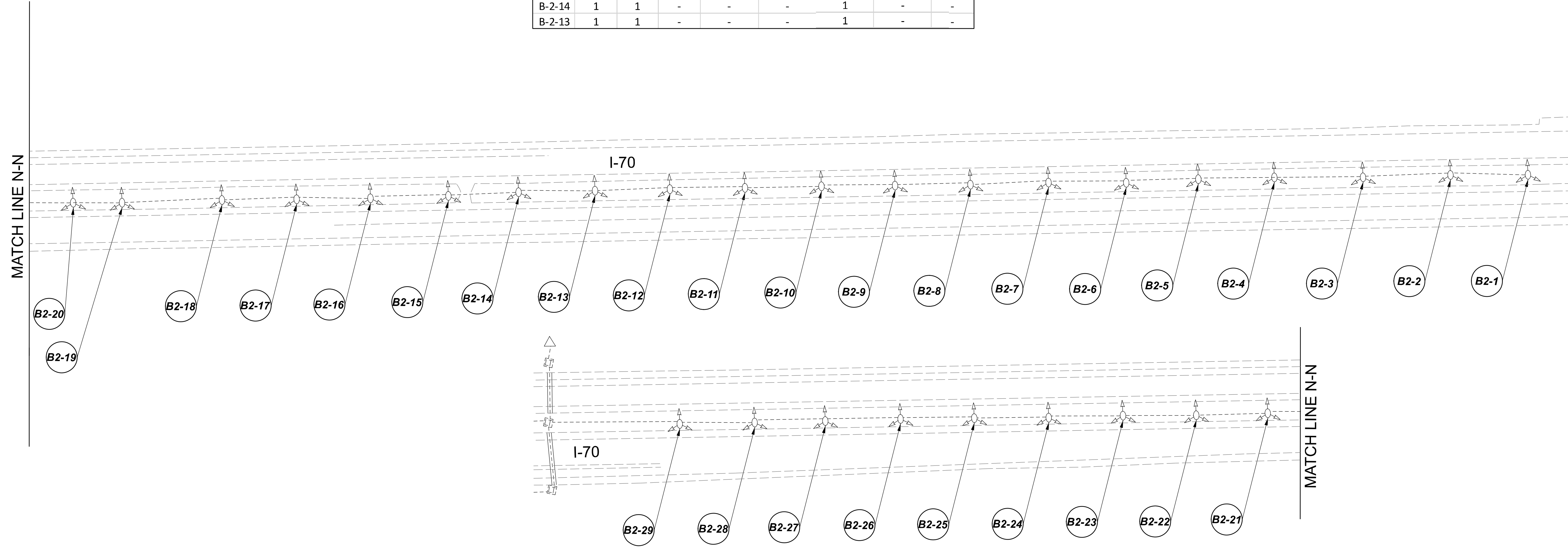
MATCH LINE H-H
SEE SHEET P.64

MATCH LINE E-E
SEE SHEET P.64



Lighting Plan - Location 23
I-270 and I-70

DESIGN AGENCY	
SINGH SINGH + ASSOCIATES, INC. CONSULTING ENGINEERS	
DESIGNER	
VN	
REVIEWER	
SG 03/11/22	
PROJECT ID	
112676	
SUBSET	TOTAL
1	3
SHEET	
P.62	TOTAL 197



LEGEND

- EXISTING SYMMETRICAL HIGH MAST TOWER
- EXISTING ASYMMETRICAL HIGH MAST TOWER
- EXISTING SYMMETRICAL LOW MAST POLE
- EXISTING ASYMMETRICAL LOW MAST POLE
- EXISTING CONVENTIONAL LIGHT POLE
- EXISTING UNDERPASS LIGHTING UNIT
- EXISTING PULL BOX
- EXISTING CIRCUIT
- EXISTING CONDUIT
- EXISTING CONTROL CENTER

POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN	SYMMETRICAL, 70-80k LUMENS, 480V PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN	ASYMMETRICAL, 70-80k LUMENS, 480V PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN	SYMMETRICAL, 42-47k LUMENS, 480V PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN	ASYMMETRICAL, 37-42k LUMENS, 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
B-2-29	1	1	-	-	-	-	-	1	-	-	-	-	-
B-2-28	1	1	-	-	-	-	-	1	-	-	-	-	-
B-2-27	1	1	-	-	-	-	-	1	-	-	-	-	-
B-2-26	1	1	-	-	-	-	-	1	-	-	-	-	-
B-2-25	1	1	-	-	-	-	-	1	-	-	-	-	-
B-2-24	1	1	-	-	-	-	-	1	-	-	-	-	-
B-2-23	1	1	-	-	-	-	-	1	-	-	-	-	-
B-2-22	1	1	-	-	-	-	-	1	-	-	-	-	-
B-2-21	1	1	-	-	-	-	-	1	-	-	-	-	-
B-2-20	1	1	-	-	-	-	-	1	-	-	-	-	-
B-2-19	1	1	-	-	-	-	-	1	-	-	-	-	-
B-2-18	1	1	-	-	-	-	-	1	-	-	-	-	-
B-2-17	1	1	-	-	-	-	-	1	-	-	-	-	-
B-2-16	1	1	-	-	-	-	-	1	-	-	-	-	-
B-2-15	1	1	-	-	-	-	-	1	-	-	-	-	-
B-2-14	1	1	-	-	-	-	-	1	-	-	-	-	-
B-2-13	1	1	-	-	-	-	-	1	-	-	-	-	-

B-2-12	1	1	-	-	-	-	-	1	-	-	-	-	-
B-2-11	1	1	-	-	-	-	-	1	-	-	-	-	-
B-2-10	1	1	-	-	-	-	-	1	-	-	-	-	-
B-2-9	1	1	-	-	-	-	-	1	-	-	-	-	-
B-2-8	1	1	-	-	-	-	-	1	-	-	-	-	-
B-2-7	1	1	-	-	-	-	-	1	-	-	-	-	-
B-2-6	1	1	-	-	-	-	-	1	-	-	-	-	-
B-2-5	1	1	-	-	-	-	-	1	-	-	-	-	-
B-2-4	1	1	-	-	-	-	-	1	-	-	-	-	-
B-2-3	1	1	-	-	-	-	-	1	-	-	-	-	-
B-2-2	1	1	-	-	-	-	-	1	-	-	-	-	-
B-2-1	1	1	-	-	-	-	-	1	-	-	-	-	-



Lighting Plan - Location 23a
 I-70 - Hillard Rome Road to I-270

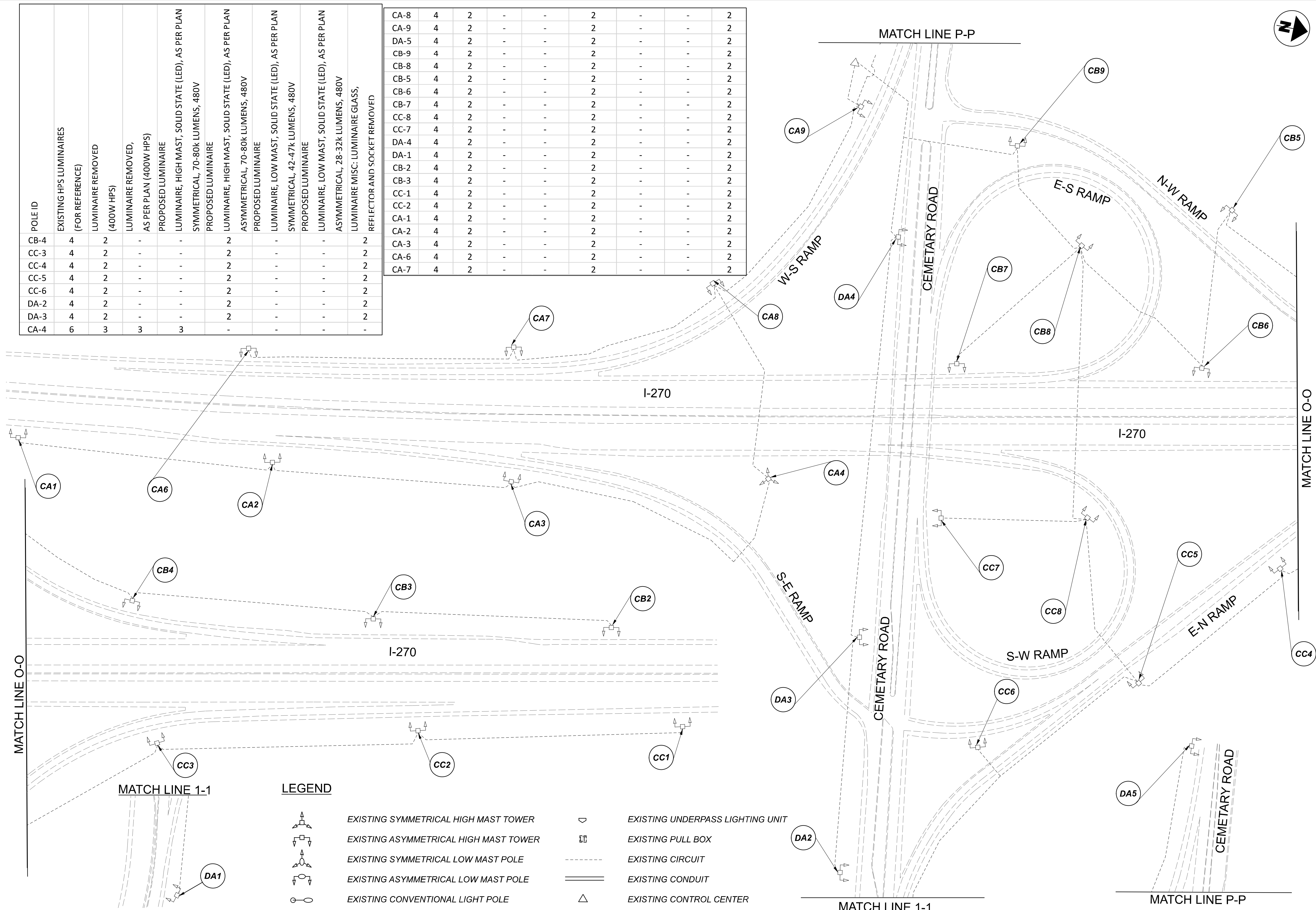
DESIGN AGENCY	
SINGH SINGH + ASSOCIATES, INC. CONSULTING ENGINEERS	
DESIGNER	
VN	
REVIEWER	
SG 03/11/22	
PROJECT ID	
112676	
SUBSET	TOTAL
3	1
SHEET	TOTAL
P.65	197

D06-Lighting Upgrade FY2021

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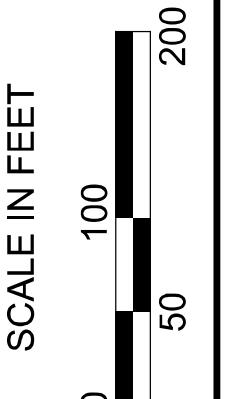
POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 42-47k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 28-32k LUMENS, 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
CB-4	4	2	-	-	-	2	-	-	-	-	2	-
CC-3	4	2	-	-	-	2	-	-	-	-	2	-
CC-4	4	2	-	-	-	2	-	-	-	-	2	-
CC-5	4	2	-	-	-	2	-	-	-	-	2	-
CC-6	4	2	-	-	-	2	-	-	-	-	2	-
DA-2	4	2	-	-	-	2	-	-	-	-	2	-
DA-3	4	2	-	-	-	2	-	-	-	-	2	-
CA-4	6	3	3	3	-	-	-	-	-	-	-	-

CA-8	4	2	-	-	-	2	-	-	-	-	2	-
CA-9	4	2	-	-	-	2	-	-	-	-	2	-
DA-5	4	2	-	-	-	2	-	-	-	-	2	-
CB-9	4	2	-	-	-	2	-	-	-	-	2	-
CB-8	4	2	-	-	-	2	-	-	-	-	2	-
CB-5	4	2	-	-	-	2	-	-	-	-	2	-
CB-6	4	2	-	-	-	2	-	-	-	-	2	-
CB-7	4	2	-	-	-	2	-	-	-	-	2	-
CC-8	4	2	-	-	-	2	-	-	-	-	2	-
CC-7	4	2	-	-	-	2	-	-	-	-	2	-
DA-4	4	2	-	-	-	2	-	-	-	-	2	-
DA-1	4	2	-	-	-	2	-	-	-	-	2	-
CB-2	4	2	-	-	-	2	-	-	-	-	2	-
CB-3	4	2	-	-	-	2	-	-	-	-	2	-
CC-1	4	2	-	-	-	2	-	-	-	-	2	-
CC-2	4	2	-	-	-	2	-	-	-	-	2	-
CA-1	4	2	-	-	-	2	-	-	-	-	2	-
CA-2	4	2	-	-	-	2	-	-	-	-	2	-
CA-3	4	2	-	-	-	2	-	-	-	-	2	-
CA-6	4	2	-	-	-	2	-	-	-	-	2	-
CA-7	4	2	-	-	-	2	-	-	-	-	2	-



LEGEND

- EXISTING SYMMETRICAL HIGH MAST TOWER
- EXISTING ASYMMETRICAL HIGH MAST TOWER
- EXISTING SYMMETRICAL LOW MAST POLE
- EXISTING ASYMMETRICAL LOW MAST POLE
- EXISTING CONVENTIONAL LIGHT POLE
- EXISTING UNDERPASS LIGHTING UNIT
- EXISTING PULL BOX
- EXISTING CIRCUIT
- EXISTING CONDUIT
- EXISTING CONTROL CENTER



Lighting Plan - Location 26
I-270 and Cemetery Road

DESIGN AGENCY

SINGH
SINGH & ASSOCIATES, INC.
CONSULTING ENGINEERS

DESIGNER

VN

REVIEWER

SG 03/11/22

PROJECT ID

112676

SUBSET TOTAL

1 1


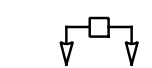
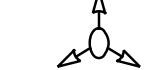
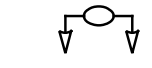
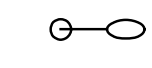

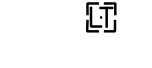
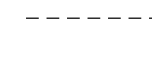

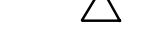
SHEET TOTAL

P.66 197

D06-Lighting Upgrade FY2021

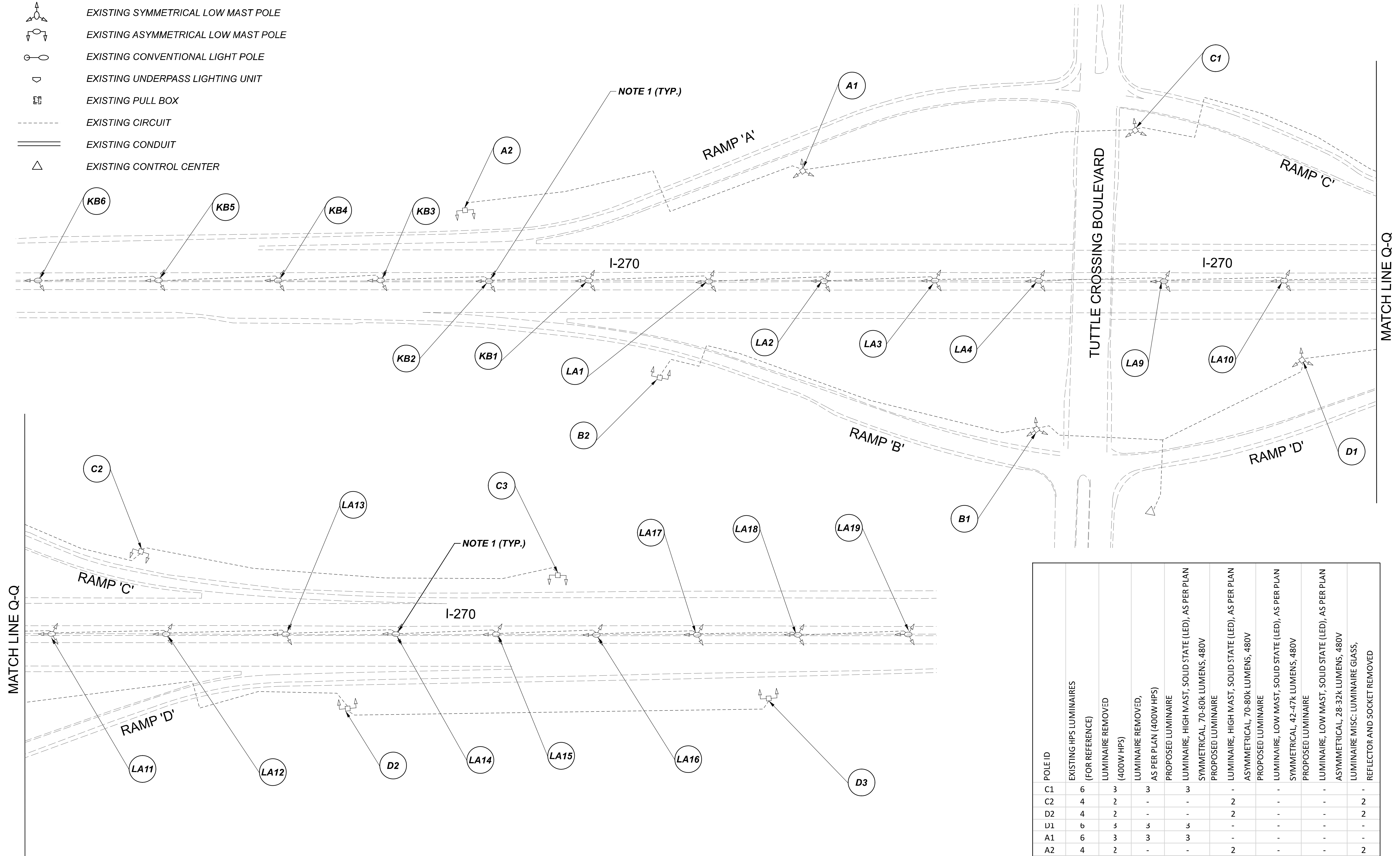
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LEGEND

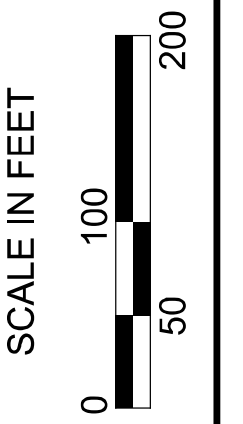
-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER

NOTES:

1. EXISTING MEDIAN MOUNTED LIGHT POLES ARE LED, NO WORK NEEDED.



POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 42-47k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 28-32k LUMENS, 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
C1	6	3	3	3	-	-	-	-	-	-	-	-
C2	4	2	-	-	-	2	-	-	-	-	-	2
D2	4	2	-	-	-	2	-	-	-	-	-	2
U1	6	3	3	3	-	-	-	-	-	-	-	-
A1	6	3	3	3	-	-	-	-	-	-	-	-
A2	4	2	-	-	-	2	-	-	-	-	-	2
B2	4	2	-	-	-	2	-	-	-	-	-	2
B1	6	3	3	3	-	-	-	-	-	-	-	-
C3	4	2	-	-	-	2	-	-	-	-	-	2
D3	4	2	-	-	-	2	-	-	-	-	-	2



Lighting Plan - Location 27
 I-270 and Tuttle Boulevard

DESIGN AGENCY

SINGH
 SINGH + ASSOCIATES, INC.
 CONSULTING ENGINEERS

DESIGNER

VN

REVIEWER

SG 03/11/22

PROJECT ID

112676

SUBSET TOTAL

1 1

SHEET TOTAL

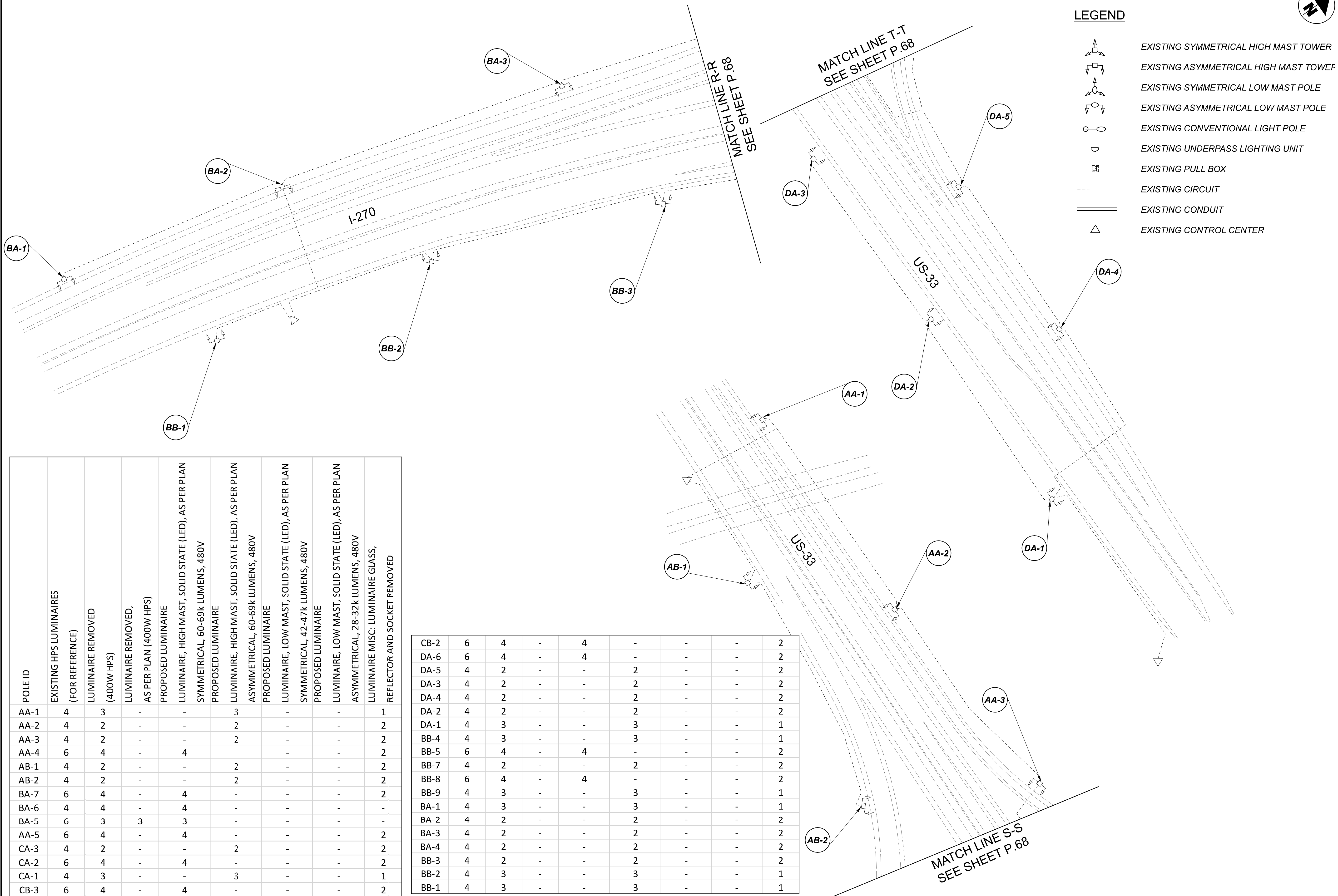
P.67 197

D06-Lighting Upgrade FY2021

MODEL SHEET PAPER SIZE 34x22 (in.) DATE 3/10/2022 TIME 12:44:29 PM USER vnunez
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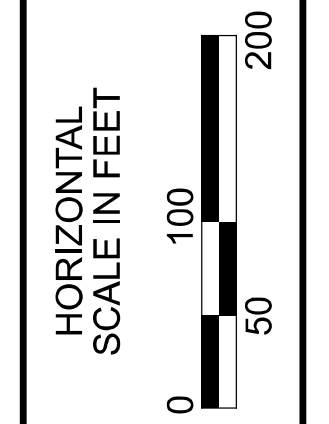
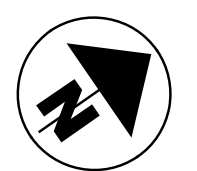
POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 60-69k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 60-69k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 42-47k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 28-32k LUMENS, 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
AA-1	4	3	-	-	3	-	-	-	-	-	-	1
AA-2	4	2	-	-	2	-	-	-	-	-	-	2
AA-3	4	2	-	-	2	-	-	-	-	-	-	2
AA-4	6	4	-	4	-	-	-	-	-	-	-	2
AB-1	4	2	-	-	2	-	-	-	-	-	-	2
AB-2	4	2	-	-	2	-	-	-	-	-	-	2
BA-7	6	4	-	4	-	-	-	-	-	-	-	2
BA-6	4	4	-	4	-	-	-	-	-	-	-	-
BA-5	6	3	3	3	-	-	-	-	-	-	-	-
AA-5	6	4	-	4	-	-	-	-	-	-	-	2
CA-3	4	2	-	-	2	-	-	-	-	-	-	2
CA-2	6	4	-	4	-	-	-	-	-	-	-	2
CA-1	4	3	-	-	3	-	-	-	-	-	-	1
CB-3	6	4	-	4	-	-	-	-	-	-	-	2

CB-2	6	4	-	4	-	-	-	2
DA-6	6	4	-	4	-	-	-	2
DA-5	4	2	-	-	2	-	-	2
DA-3	4	2	-	-	2	-	-	2
DA-4	4	2	-	-	2	-	-	2
DA-2	4	2	-	-	2	-	-	2
DA-1	4	3	-	-	3	-	-	1
BB-4	4	3	-	-	3	-	-	1
BB-5	6	4	-	4	-	-	-	2
BB-7	4	2	-	-	2	-	-	2
BB-8	6	4	-	4	-	-	-	2
BB-9	4	3	-	-	3	-	-	1
BA-1	4	3	-	-	3	-	-	1
BA-2	4	2	-	-	2	-	-	2
BA-3	4	2	-	-	2	-	-	2
BA-4	4	2	-	-	2	-	-	2
BB-3	4	2	-	-	2	-	-	2
BB-2	4	3	-	-	3	-	-	1
BB-1	4	3	-	-	3	-	-	1



LEGEND

- EXISTING SYMMETRICAL HIGH MAST TOWER
- EXISTING ASYMMETRICAL HIGH MAST TOWER
- EXISTING SYMMETRICAL LOW MAST POLE
- EXISTING ASYMMETRICAL LOW MAST POLE
- EXISTING CONVENTIONAL LIGHT POLE
- EXISTING UNDERPASS LIGHTING UNIT
- EXISTING PULL BOX
- EXISTING CIRCUIT
- EXISTING CONDUIT
- EXISTING CONTROL CENTER



Lighting Plan - Location 28
I-270 and US-33

DESIGN AGENCY	
SINGH SINGH + ASSOCIATES, INC. CONSULTING ENGINEERS	
DESIGNER	
VN	
REVIEWER	
SG 03/11/22	
PROJECT ID	
112676	
SUBSET	TOTAL
2	2
SHEET	TOTAL
P.69	197

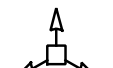
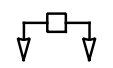
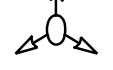




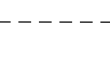
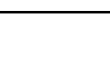
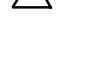
D06-Lighting Upgrade FY2021

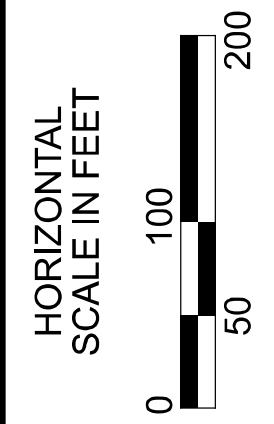
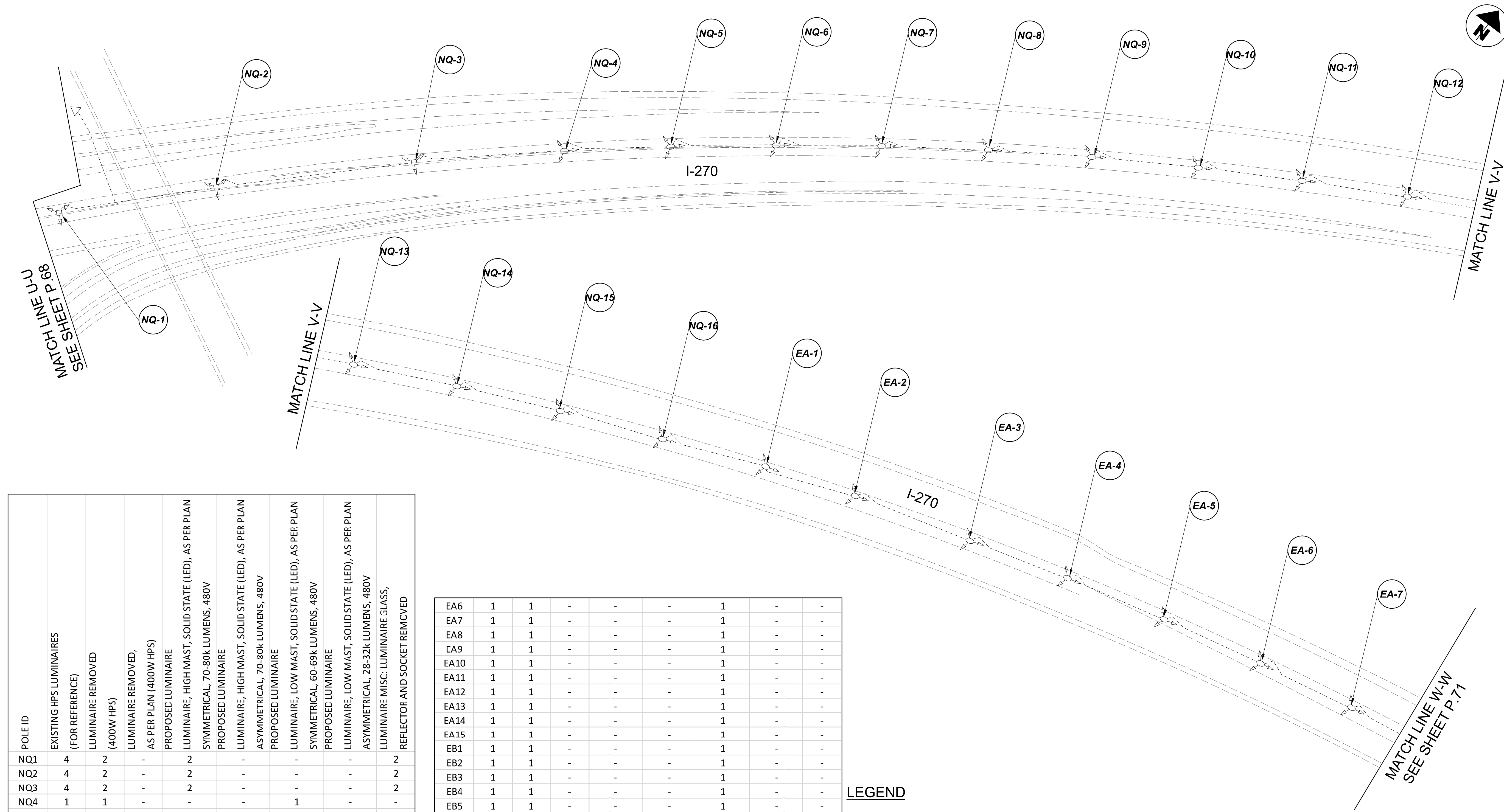
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POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE	LUMINAIRE: HIGH MAST, SOLID STATE (LED), AS PER PLAN	SYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE: HIGH MAST, SOLID STATE (LED), AS PER PLAN	ASYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE: LOW MAST, SOLID STATE (LED), AS PER PLAN	SYMMETRICAL, 60-69k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE: LOW MAST, SOLID STATE (LED), AS PER PLAN	ASYMMETRICAL, 28-32k LUMENS, 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
NQ1	4	2	-	2	-	-	-	-	-	-	1	-	-	-	2	
NQ2	4	2	-	2	-	-	-	-	-	-	1	-	-	-	2	
NQ3	4	2	-	2	-	-	-	-	-	-	1	-	-	-	2	
NQ4	1	1	-	-	-	-	-	-	-	-	1	-	-	-	-	
NQ5	1	1	-	-	-	-	-	-	-	-	1	-	-	-	-	
NQ6	1	1	-	-	-	-	-	-	-	-	1	-	-	-	-	
NQ7	1	1	-	-	-	-	-	-	-	-	1	-	-	-	-	
NQ8	1	1	-	-	-	-	-	-	-	-	1	-	-	-	-	
NQ9	1	1	-	-	-	-	-	-	-	-	1	-	-	-	-	
NQ10	1	1	-	-	-	-	-	-	-	-	1	-	-	-	-	
NQ11	1	1	-	-	-	-	-	-	-	-	1	-	-	-	-	
NQ12	1	1	-	-	-	-	-	-	-	-	1	-	-	-	-	
NQ13	1	1	-	-	-	-	-	-	-	-	1	-	-	-	-	
NQ14	1	1	-	-	-	-	-	-	-	-	1	-	-	-	-	
NQ15	1	1	-	-	-	-	-	-	-	-	1	-	-	-	-	
NQ16	1	1	-	-	-	-	-	-	-	-	1	-	-	-	-	
EA1	1	1	-	-	-	-	-	-	-	-	1	-	-	-	-	
EA2	1	1	-	-	-	-	-	-	-	-	1	-	-	-	-	
EA3	1	1	-	-	-	-	-	-	-	-	1	-	-	-	-	
EA4	1	1	-	-	-	-	-	-	-	-	1	-	-	-	-	
EA5	1	1	-	-	-	-	-	-	-	-	1	-	-	-	-	

EA6	1	1	-	-	-	-	1	-	-
EA7	1	1	-	-	-	-	1	-	-
EA8	1	1	-	-	-	-	1	-	-
EA9	1	1	-	-	-	-	1	-	-
EA10	1	1	-	-	-	-	1	-	-
EA11	1	1	-	-	-	-	1	-	-
EA12	1	1	-	-	-	-	1	-	-
EA13	1	1	-	-	-	-	1	-	-
EA14	1	1	-	-	-	-	1	-	-
EA15	1	1	-	-	-	-	1	-	-
EB1	1	1	-	-	-	-	1	-	-
EB2	1	1	-	-	-	-	1	-	-
EB3	1	1	-	-	-	-	1	-	-
EB4	1	1	-	-	-	-	1	-	-
EB5	1	1	-	-	-	-	1	-	-
EB6	1	1	-	-	-	-	1	-	-
EB7	1	1	-	-	-	-	1	-	-
EB8	1	1	-	-	-	-	1	-	-
EB9	1	1	-	-	-	-	1	-	-
EB10	1	1	-	-	-	-	1	-	-
EB11	1	1	-	-	-	-	1	-	-
EB12	1	1	-	-	-	-	1	-	-
EB13	1	1	-	-	-	-	1	-	-
EB14	1	1	-	-	-	-	1	-	-
EB15	1	1	-	-	-	-	1	-	-
EB16	1	1	-	-	-	-	1	-	-
EB17	1	1	-	-	-	-	1	-	-
EB18	1	1	-	-	-	-	1	-	-

LEGEND

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER



Lighting Plan - Location 29
I-270 and Sawmill Road

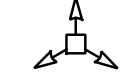
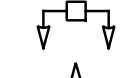
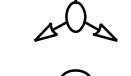
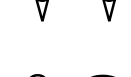






DESIGN AGENCY	
SINGH SINGH & ASSOCIATES, INC. CONSULTING ENGINEERS	
DESIGNER	
VN	
REVIEWER	
SG 03/11/22	
PROJECT ID	
112676	
SUBSET	TOTAL
1	2
SHEET	
P.70	
TOTAL	
197	

D06-Lighting Upgrade FY2021

MODEL SHEET PAPER SIZE: 34x22 (in.) DATE: 3/10/2022 TIME: 12:55:38 PM USER: vnunez
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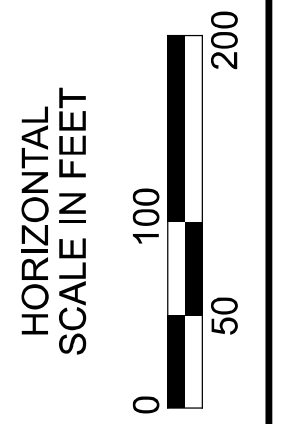
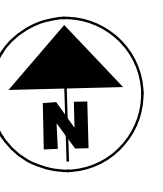
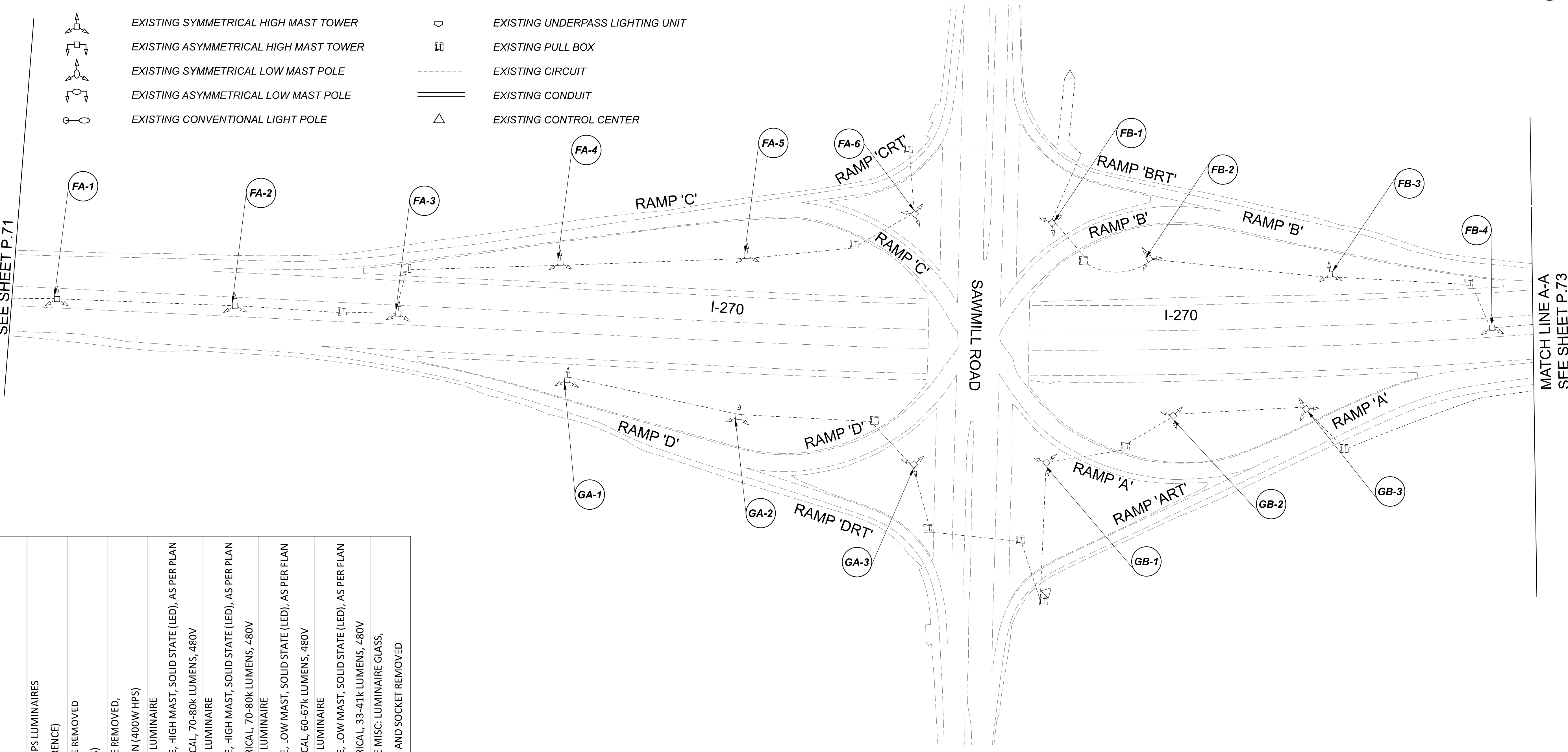
MATCH LINE Y-Y
SEE SHEET P.71

LEGEND

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER

POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 70-80k LUMENS, 480V	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 60-67k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 33-41k LUMENS, 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
FA1	4	2	-	2	-	-	-	-	-	-	2
FA2	4	2	-	2	-	-	-	-	-	-	2
FA3	4	2	-	2	-	-	-	-	-	-	2
FA4	4	2	-	2	-	-	-	-	-	-	2
FA5	4	2	-	2	-	-	-	-	-	-	2
FA6	6	2	-	2	-	-	-	-	-	-	4
GA1	4	2	-	2	-	-	-	-	-	-	2
GA2	4	2	-	2	-	-	-	-	-	-	2
GA3	6	2	-	2	-	-	-	-	-	-	4
FB1	6	2	-	2	-	-	-	-	-	-	4
FB2	4	2	-	2	-	-	-	-	-	-	2
FB3	4	2	-	2	-	-	-	-	-	-	2
FB4	4	2	-	2	-	-	-	-	-	-	2
FB5	4	2	-	2	-	-	-	-	-	-	2

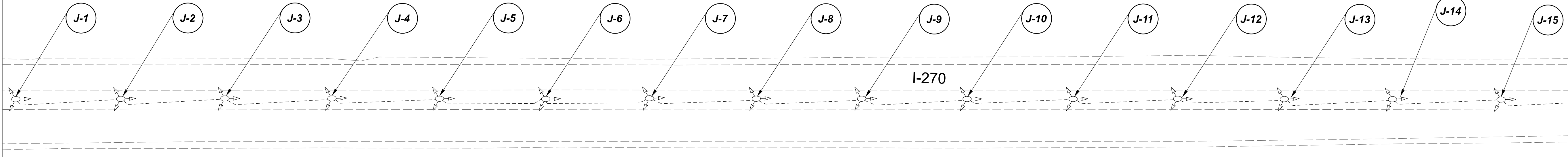
FB6	4	2	-	2	-	-	-	-	-	2
GB1	6	2	-	2	-	-	-	-	-	4
GB2	4	2	-	2	-	-	-	-	-	2
GB3	4	2	-	2	-	-	-	-	-	2
GB4	1	1	-	-	-	-	1	-	-	-
GB5	1	1	-	-	-	-	1	-	-	-
GB6	1	1	-	-	-	-	1	-	-	-
GB7	1	1	-	-	-	-	1	-	-	-
GB8	1	1	-	-	-	-	1	-	-	-
GB9	1	1	-	-	-	-	1	-	-	-
GB10	1	1	-	-	-	-	1	-	-	-
GB11	1	1	-	-	-	-	1	-	-	-
GB12	1	1	-	-	-	-	1	-	-	-
GB13	1	1	-	-	-	-	1	-	-	-
GB14	1	1	-	-	-	-	1	-	-	-



Lighting Plan - Location 30
I-270 - Sawmill Road to S.R. 315

DESIGN AGENCY	
SINGH SINGH & ASSOCIATES, INC. CONSULTING ENGINEERS	
DESIGNER	
VN	
REVIEWER	
SG 03/11/22	
PROJECT ID	
112676	
SUBSET	TOTAL
1	2
SHEET	TOTAL
P.72	197

MATCH LINE B-B
SEE SHEET P.73

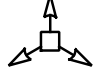
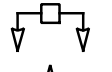
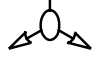

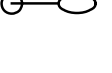


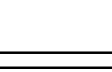




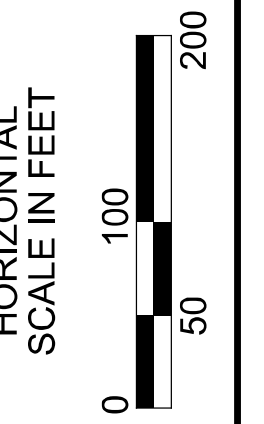
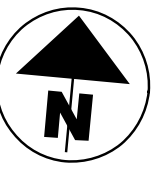
MATCH LINE C-C
SEE SHEET P.75

POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400/750W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN	SYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN	ASYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN	SYMMETRICAL, 60-69k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN	ASYMMETRICAL, 28-32k LUMENS, 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
J-1	1	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-
J-2	1	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-
J-3	1	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-
J-4	1	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-
J-5	1	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-
J-6	1	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-
J-7	1	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-
J-8	1	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-
J-9	1	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-
J-10	1	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-
J-11	1	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-
J-12	1	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-
J-13	1	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-
J-14	1	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-
J-15	1	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-
J-16	1	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-
J-17	1	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-
J-18	1	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-
J-19	1	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-
J-20	1	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-

J-21	1	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-
J-22	1	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-
J-23	1	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-
J-24	1	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-
J-25	1	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-
J-26	1	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-
J-27	1	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-
J-28	1	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-
J-29	1	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-
A-1	1	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-
A-3	1	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-
A-5	1	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-
A-7	1	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-
A-9	1	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-
A-11	1	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-
A-13	1	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-
A-15	1	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-
A-17	1	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-
A-19	1	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-
A-21	1	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-
A-23	1	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-
A-25	4	3	-	-	-	3	-	-	-	-	-	-	-	-	-	1

LEGEND

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER



Lighting Plan - Location 30a
I-270 - Sawmill Rd to SR-315

DESIGN AGENCY



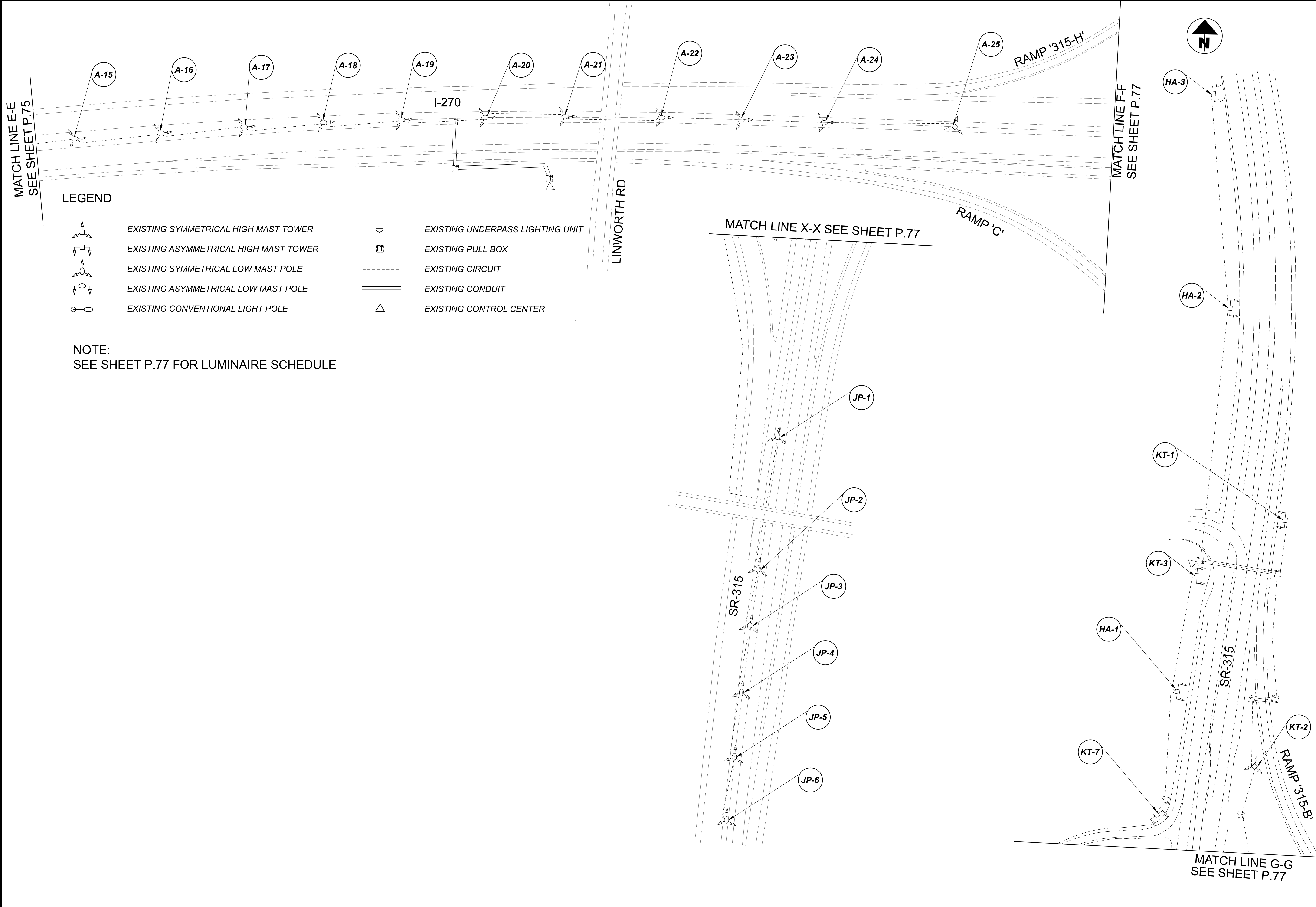
DESIGNER
VN

REVIEWER
SG 03/11/22

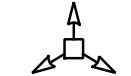

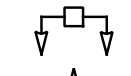

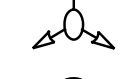
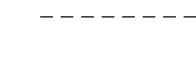

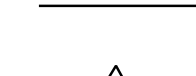


PROJECT ID
112676

SUBSET	TOTAL
0	0

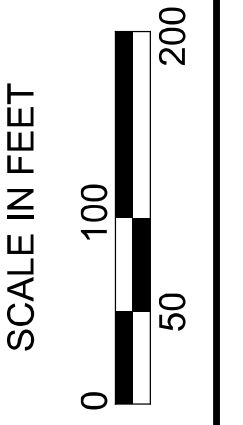
SHEET	TOTAL
P.74	197



LEGEND

- | | | | |
|---|---------------------------------------|---|----------------------------------|
|  | EXISTING SYMMETRICAL HIGH MAST TOWER |  | EXISTING UNDERPASS LIGHTING UNIT |
|  | EXISTING ASYMMETRICAL HIGH MAST TOWER |  | EXISTING PULL BOX |
|  | EXISTING SYMMETRICAL LOW MAST POLE |  | EXISTING CIRCUIT |
|  | EXISTING ASYMMETRICAL LOW MAST POLE |  | EXISTING CONDUIT |
|  | EXISTING CONVENTIONAL LIGHT POLE |  | EXISTING CONTROL CENTER |

NOTE:
 SEE SHEET P.77 FOR LUMINAIRE SCHEDULE



Lighting Plan - Location 30a
 I-270 - Sawmill Rd to SR-315

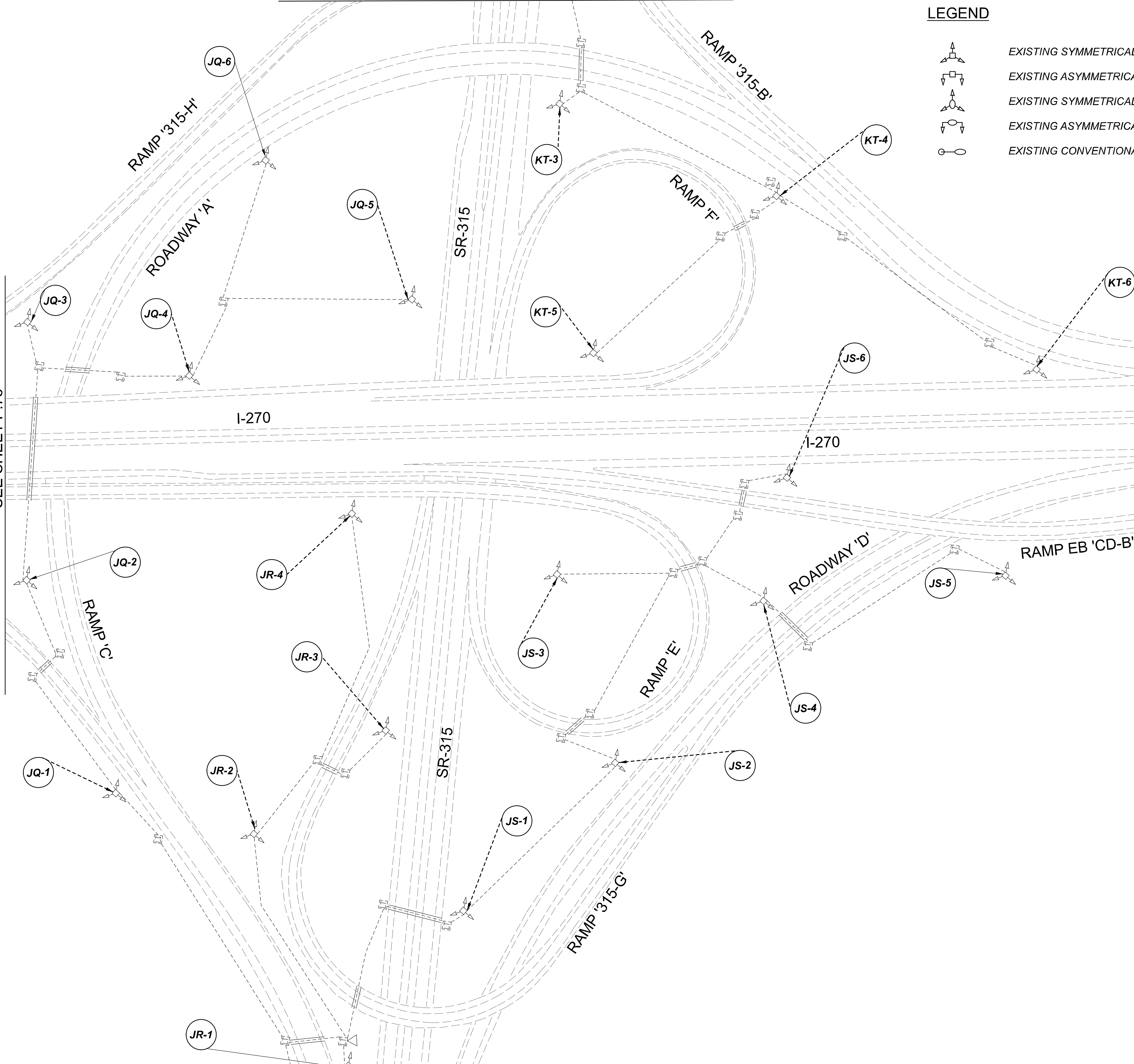
DESIGN AGENCY	
SINGH SINGH & ASSOCIATES, INC. CONSULTING ENGINEERS	
DESIGNER	
VN	
REVIEWER	
SG 03/11/22	
PROJECT ID	
112676	
SUBSET	TOTAL
0	0
SHEET	TOTAL
P.76	197

D06-Lighting Upgrade FY2021

MODEL SHEET PAPER SIZE: 11x17 (in) DATE: 3/10/2022 TIME: 12:56:50 PM USER: vnunez
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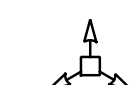
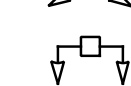
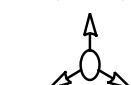
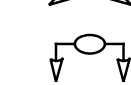
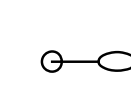
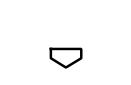

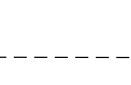
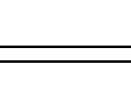

MATCH LINE F-F
SEE SHEET P.76

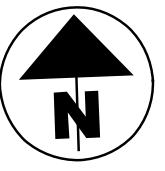
MATCH LINE G-G SEE SHEET P.76



MATCH LINE X-X SEE SHEET P.76

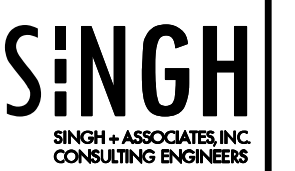
LEGEND

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER



POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN	SYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN	ASYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN	SYMMETRICAL, 42-47k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN	ASYMMETRICAL, 28-32k LUMENS, 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
JR-1	6	3	3	3												
JR-2	6	3	3	3												
JR-3	6	3	3	3												
JR-4	6	3	3	3												
JS-1	6	3	3	3												
JS-2	6	3	3	3												
JS-3	6	3	3	3												
JS-4	4	3	-	3												1
JS-5	4	3	-	3												1
JS-6	6	3	3	3												
JQ-1	4	3	-	3												1
JQ-2	6	3	3	3												
JQ-3	6	3	3	3												
JQ-4	6	3	3	3												
JQ-5	6	3	3	3												
JQ-6	6	3	3	3												
KT-1	4	2	-	-	2											2
KT-2	6	3	3	3												
KT-3	6	3	3	3												
KT-4	6	3	3	3												
KT-5	6	3	3	3												
KT-6	6	3	3	3												
KT-7	4	2	-	-	2											2
JR-3	6	3	3	3												
JP-1	6	3	3	3												
JP-2	1	1	-	-							1					
JP-3	1	1	-	-							1					
JP-4	1	1	-	-							1					
JP-5	1	1	-	-							1					
JP-6	1	1	-	-							1					
HA2	4	2	-	-	2											2
HA3	4	2	-	-	2											2

Lighting Plan - Location 31
I-270 and S.R. 315

DESIGN AGENCY

 SINGH + ASSOCIATES, INC.
 CONSULTING ENGINEERS

DESIGNER
VN

REVIEWER
SG 03/11/22

PROJECT ID
112676

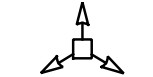
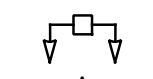
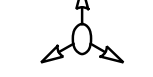
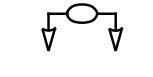
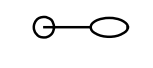


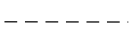
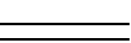

SUBSET	TOTAL
1	1

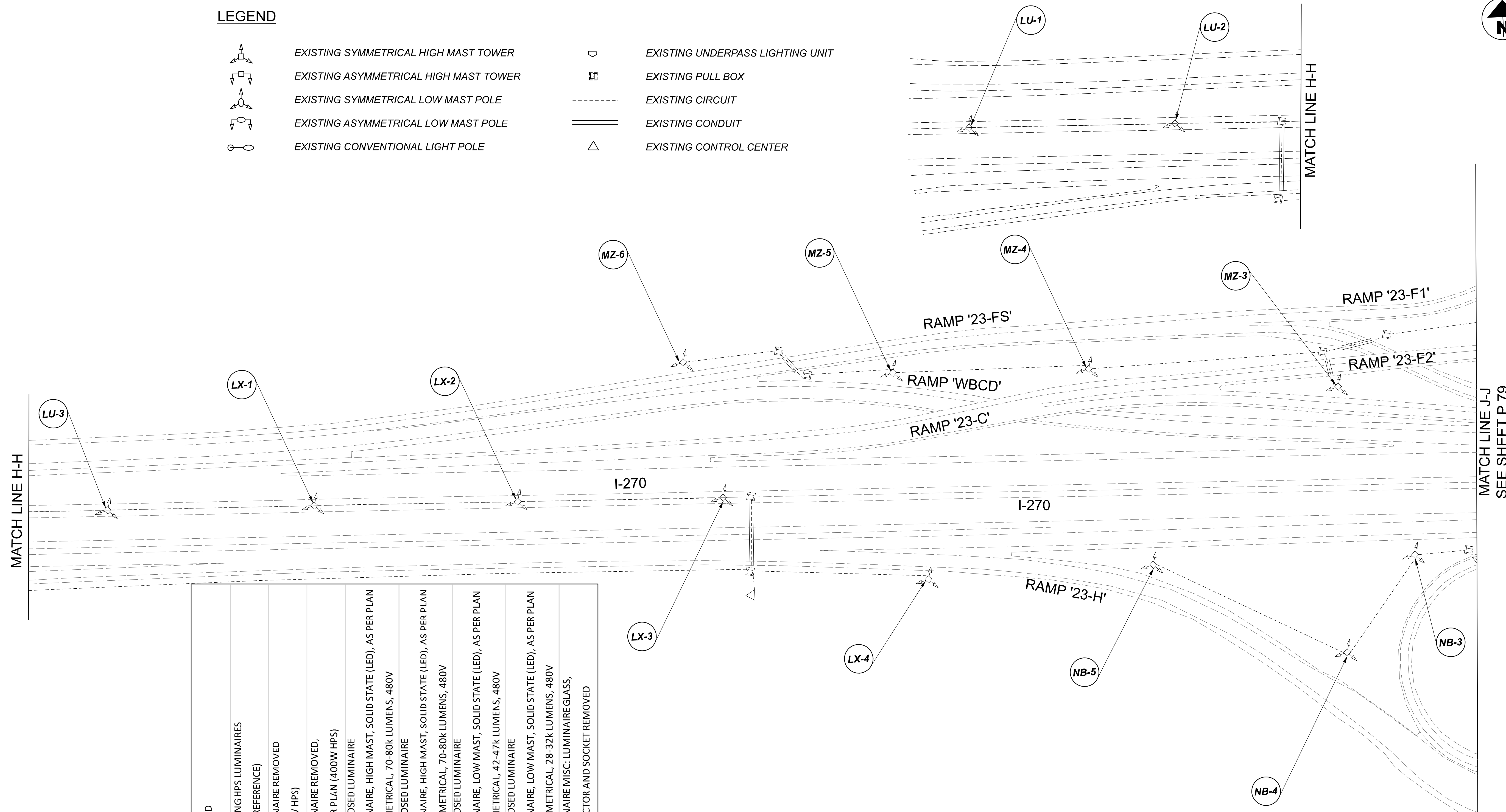
SHEET	TOTAL
P.77	197

D06-Lighting Upgrade FY2021

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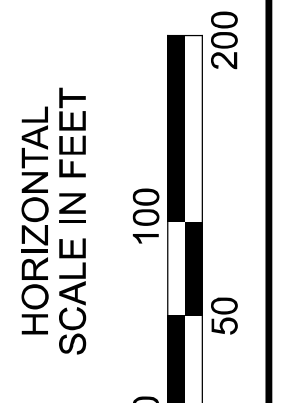
LEGEND

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER



POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 42-47k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 28-32k LUMENS, 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
LU-1	6	3	3	3								
LU-2	6	3	3	3								
LU-3	6	3	3	3								
LX-1	6	3	3	3								
LX-2	6	3	3	3								
LX-3	6	3	3	3								
LX-4	4	3	-	3								1
MV-1	6	3	3	3								
MV-2	6	3	3	3								
MV-3	6	3	3	3								
MV-4	6	3	3	3								
MY-1	6	3	3	3								
MY-2	6	3	3	3								
MY-3	6	3	3	3								
MY-4	6	3	3	3								

MZ-1	6	3	3	3	-	-	-	-
MZ-2	6	3	3	3	-	-	-	-
MZ-3	6	3	3	3	-	-	-	-
MZ-4	6	3	3	3	-	-	-	-
MZ-5	6	3	3	3	-	-	-	-
MZ-6	4	3	-	3	-	-	-	1
NB-1	6	3	3	3	-	-	-	-
NB-2	6	3	3	3	-	-	-	-
NB-3	4	3	-	3	-	-	-	1
NB-4	4	3	-	3	-	-	-	1
NB-5	6	3	3	3	-	-	-	-
NA-1	6	3	3	3	-	-	-	-
NA-2	4	3	-	3	-	-	-	1
NA-3	6	3	3	3	-	-	-	-
H6	6	3	3	3	-	-	-	-



Lighting Plan - Location 32
I-270 and US-23

DESIGN AGENCY
SINGH
 SINGH + ASSOCIATES, INC.
 CONSULTING ENGINEERS

DESIGNER
VN

REVIEWER
SG 03/11/22

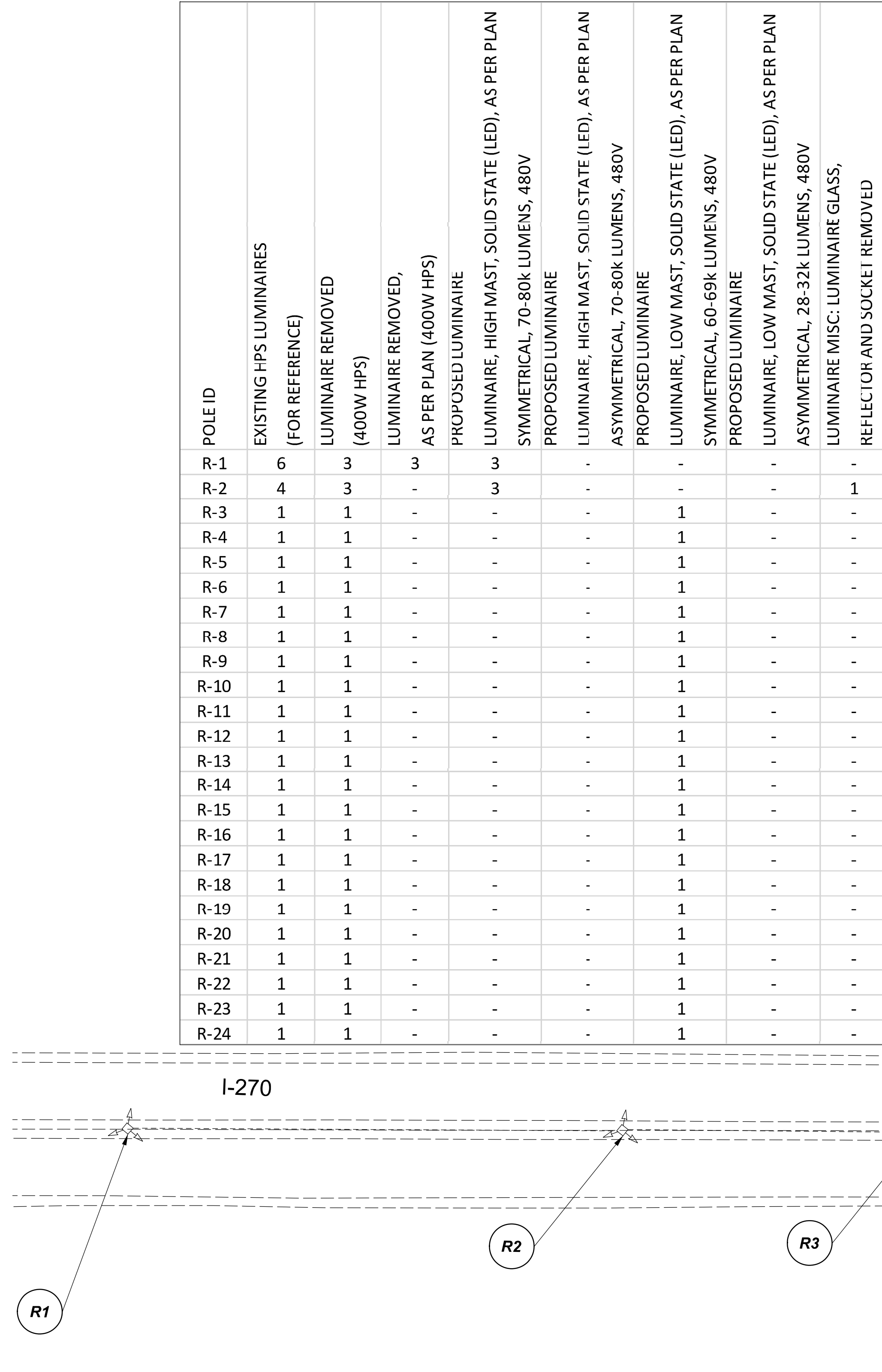
PROJECT ID
112676

SUBSET	TOTAL
1	2

SHEET	TOTAL
P.78	197

D06-Lighting Upgrade FY2021

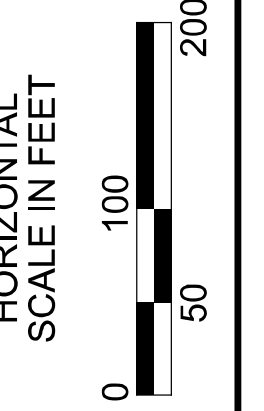
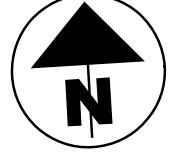
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POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN	SYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN	ASYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN	SYMMETRICAL, 60-69k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN	ASYMMETRICAL, 28-32k LUMENS, 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
R-1	6	3	3	3	3											
R-2	4	3	-	3												1
R-3	1	1	-							1						
R-4	1	1	-							1						
R-5	1	1	-							1						
R-6	1	1	-							1						
R-7	1	1	-							1						
R-8	1	1	-							1						
R-9	1	1	-							1						
R-10	1	1	-							1						
R-11	1	1	-							1						
R-12	1	1	-							1						
R-13	1	1	-							1						
R-14	1	1	-							1						
R-15	1	1	-							1						
R-16	1	1	-							1						
R-17	1	1	-							1						
R-18	1	1	-							1						
R-19	1	1	-							1						
R-20	1	1	-							1						
R-21	1	1	-							1						
R-22	1	1	-							1						
R-23	1	1	-							1						
R-24	1	1	-							1						

LEGEND

- EXISTING SYMMETRICAL HIGH MAST TOWER
- EXISTING ASYMMETRICAL HIGH MAST TOWER
- EXISTING SYMMETRICAL LOW MAST POLE
- EXISTING ASYMMETRICAL LOW MAST POLE
- EXISTING CONVENTIONAL LIGHT POLE
- EXISTING UNDERPASS LIGHTING UNIT
- EXISTING PULL BOX
- EXISTING CIRCUIT
- EXISTING CONDUIT
- EXISTING CONTROL CENTER



Lighting Plan - Location 33
 I-270 - US-23 to I-71

MATCH LINE L-L
 SEE SHEET P.81

DESIGN AGENCY

SINGH
 SINGH + ASSOCIATES, INC.
 CONSULTING ENGINEERS

DESIGNER
 VN

REVIEWER
 SG 03/11/22

PROJECT ID
 112676

SUBSET	TOTAL
1	2

SHEET	TOTAL
P.80	197

D06-Lighting Upgrade FY2021

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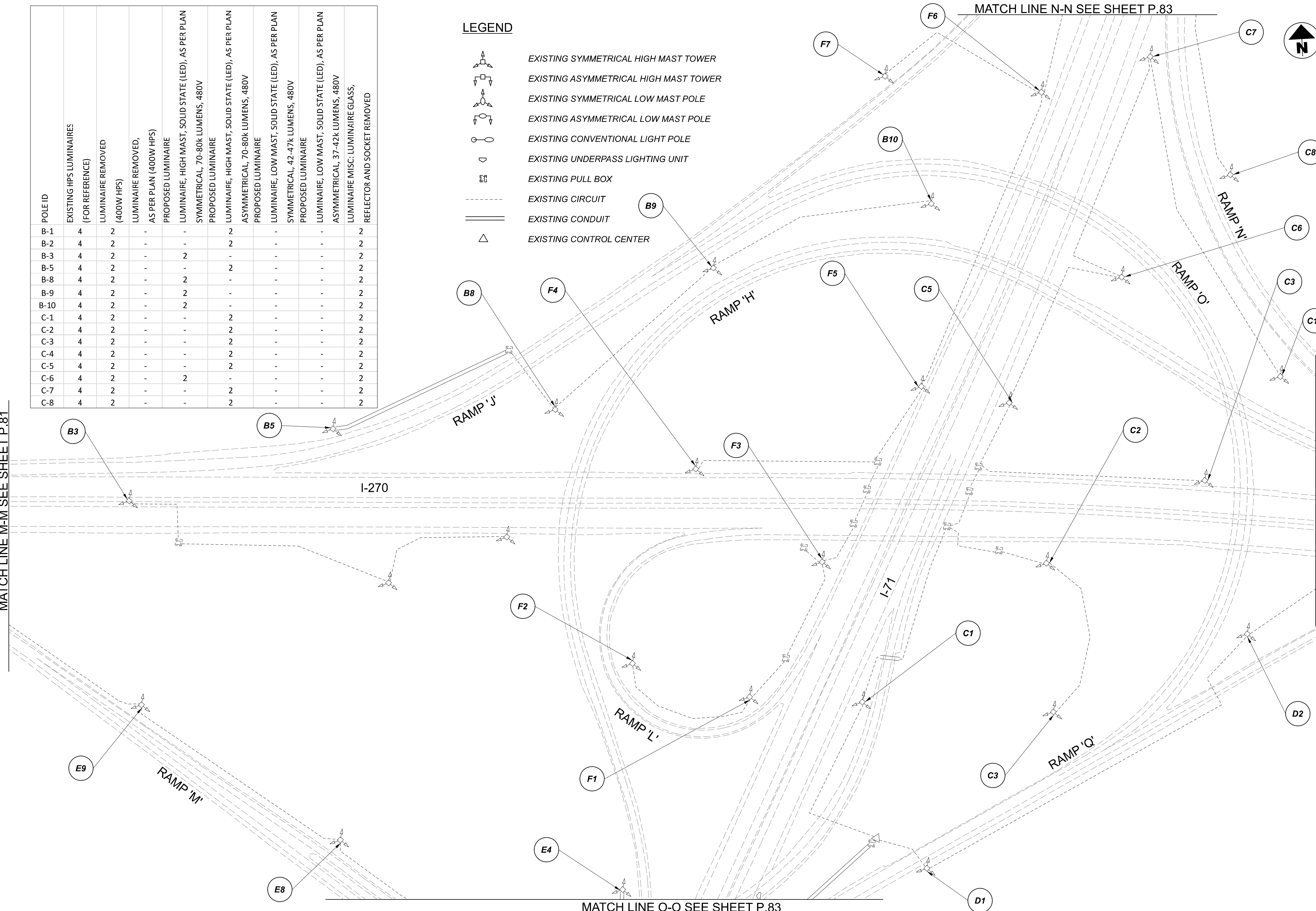
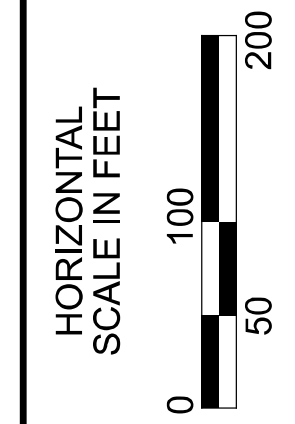
MATCH LINE M-M SEE SHEET P.81

POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 42-47k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 37-42k LUMENS, 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
B-1	4	2	-	-	-	2	-	-	-	-	2	2
B-2	4	2	-	-	-	2	-	-	-	-	2	2
B-3	4	2	-	-	2	-	-	-	-	-	2	2
B-5	4	2	-	-	2	-	-	-	-	-	2	2
B-8	4	2	-	-	2	-	-	-	-	-	2	2
B-9	4	2	-	-	2	-	-	-	-	-	2	2
B-10	4	2	-	-	2	-	-	-	-	-	2	2
C-1	4	2	-	-	-	2	-	-	-	-	2	2
C-2	4	2	-	-	-	2	-	-	-	-	2	2
C-3	4	2	-	-	-	2	-	-	-	-	2	2
C-4	4	2	-	-	-	2	-	-	-	-	2	2
C-5	4	2	-	-	-	2	-	-	-	-	2	2
C-6	4	2	-	-	2	-	-	-	-	-	2	2
C-7	4	2	-	-	-	2	-	-	-	-	2	2
C-8	4	2	-	-	-	2	-	-	-	-	2	2

LEGEND

- EXISTING SYMMETRICAL HIGH MAST TOWER
- EXISTING ASYMMETRICAL HIGH MAST TOWER
- EXISTING SYMMETRICAL LOW MAST POLE
- EXISTING ASYMMETRICAL LOW MAST POLE
- EXISTING CONVENTIONAL LIGHT POLE
- EXISTING UNDERPASS LIGHTING UNIT
- EXISTING PULL BOX
- EXISTING CIRCUIT
- EXISTING CONDUIT
- EXISTING CONTROL CENTER

MATCH LINE N-N SEE SHEET P.83



MATCH LINE P-P SEE SHEET P.83

MATCH LINE O-O SEE SHEET P.83











Lighting Plan - Location 34
I-270 and I-71

DESIGN AGENCY	
SINGH SINGH + ASSOCIATES, INC. CONSULTING ENGINEERS	
DESIGNER	
VN	
REVIEWER	
SG 03/11/22	
PROJECT ID	
112676	
SUBSET	TOTAL
1	2
SHEET	
P.82	TOTAL
	197

MATCH LINE P-P SEE SHEET P.82

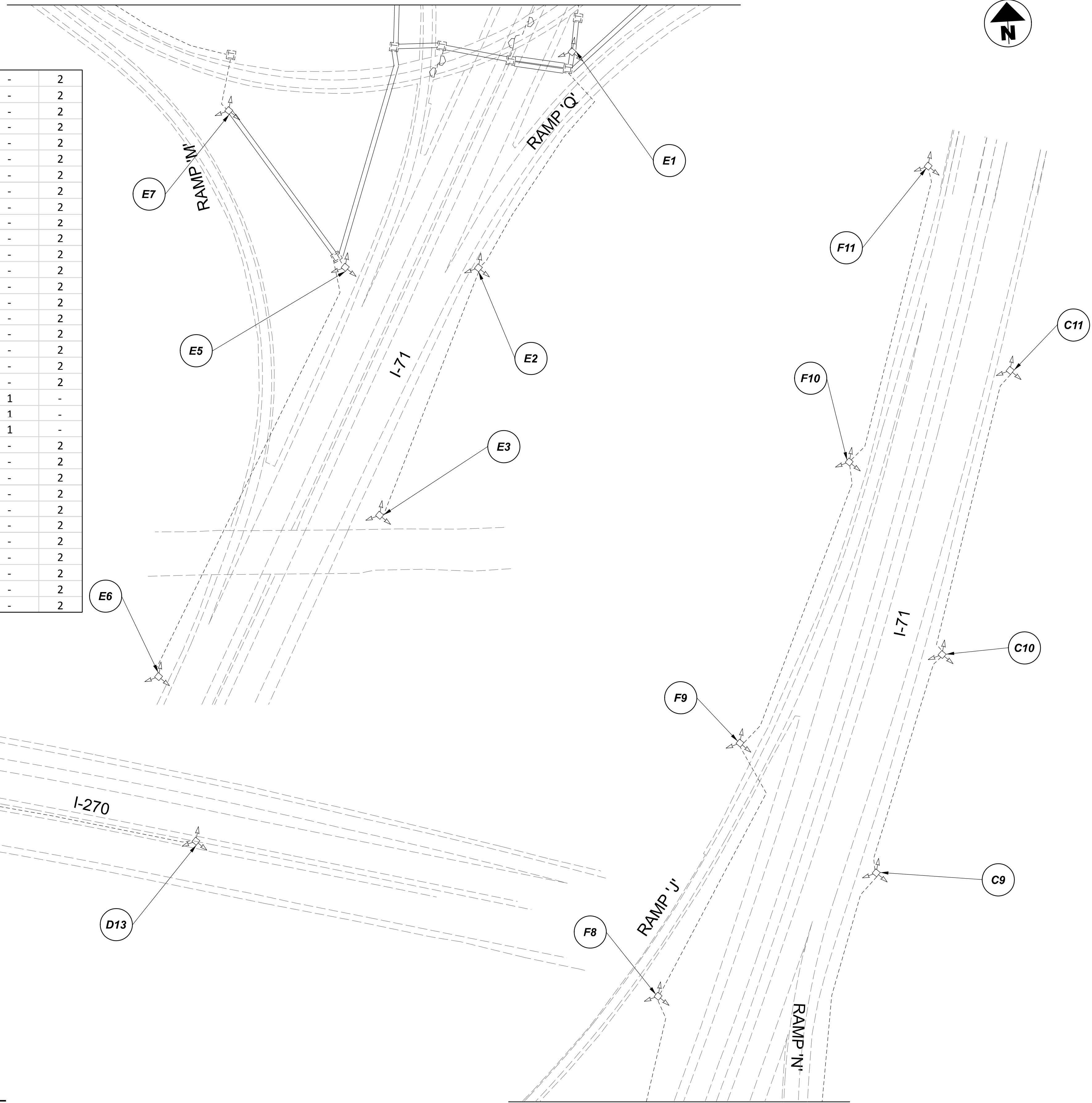
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C-11	4	2	-	-	2	-	-	2
C-12	4	2	-	2	-	-	-	2
D-1	4	2	-	-	2	-	-	2
D-2	4	2	-	2	-	-	-	2
D-3	4	2	-	2	-	-	-	2
D-12	6	4	-	4	-	-	-	2
D-13	6	4	-	4	-	-	-	2
D-19	4	2	-	-	2	-	-	2
E-1	4	2	-	-	2	-	-	2
E-2	4	2	-	-	2	-	-	2
E-3	4	2	-	-	2	-	-	2
E-4	4	2	-	-	2	-	-	2
E-5	4	2	-	-	2	-	-	2
E-6	4	2	-	-	2	-	-	2
E-7	4	2	-	2	-	-	-	2
E-8	4	2	-	-	2	-	-	2
E-9	4	2	-	-	2	-	-	2
E-10	4	2	-	-	2	-	-	2
E-11	1	1	-	-	-	-	1	-
E-12	1	1	-	-	-	-	1	-
E-13	1	1	-	-	-	-	1	-
F-1	4	2	-	-	2	-	-	2
F-2	4	2	-	-	2	-	-	2
F-3	4	2	-	-	2	-	-	2
F-4	4	2	-	-	2	-	-	2
F-5	4	2	-	-	2	-	-	2
F-6	4	2	-	-	2	-	-	2
F-7	4	2	-	-	2	-	-	2
F-8	4	2	-	2	-	-	-	2
F-9	4	2	-	-	2	-	-	2
F-10	4	2	-	-	2	-	-	2
F-11	4	2	-	-	2	-	-	2

LEGEND

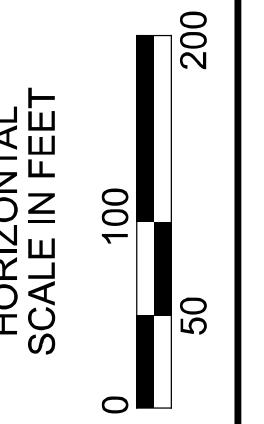
-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER

NOTE:
SEE SHEET P.82 FOR LUMINAIRE SCHEDULE

MATCH LINE O-O
SEE SHEET P.82



MATCH LINE N-N SEE SHEET P.82

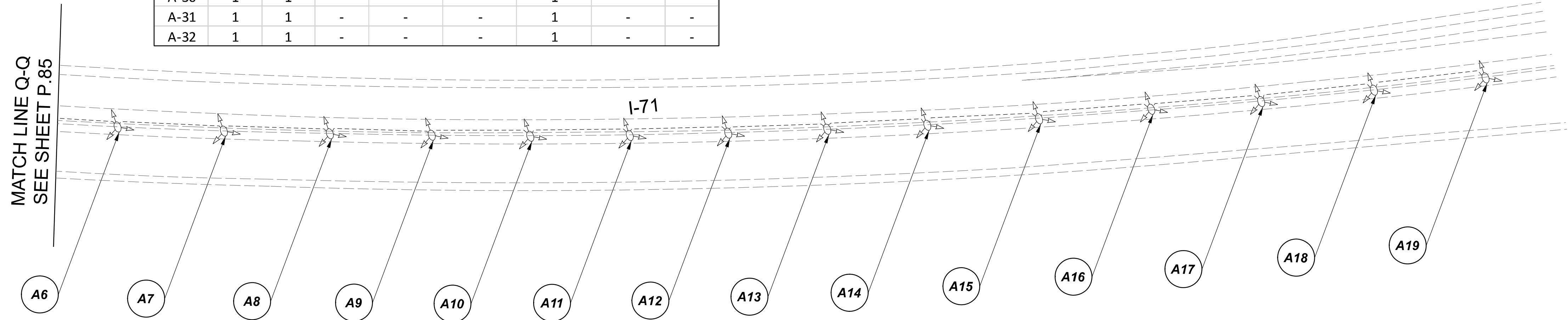


Lighting Plan - Location 34
I-270 and I-71

DESIGN AGENCY	
SINGH SINGH & ASSOCIATES, INC. CONSULTING ENGINEERS	
DESIGNER	VN
REVIEWER	SG 03/11/22
PROJECT ID	112676
SUBSET	TOTAL
2	2
SHEET	TOTAL
P.83	197

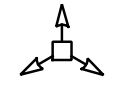
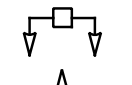
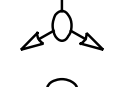




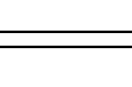


D06-Lighting Upgrade FY2021

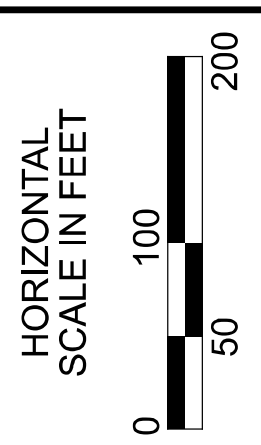
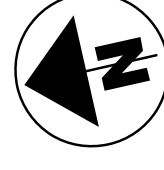
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POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 60-70k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 42-47k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 37-42k LUMENS, 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
A-1	1	1	-	-	-	-	-	1	-	-	-	-
A-2	1	1	-	-	-	-	-	1	-	-	-	-
A-3	1	1	-	-	-	-	-	1	-	-	-	-
A-4	1	1	-	-	-	-	-	1	-	-	-	-
A-5	1	1	-	-	-	-	-	1	-	-	-	-
A-6	1	1	-	-	-	-	-	1	-	-	-	-
A-7	1	1	-	-	-	-	-	1	-	-	-	-
A-8	1	1	-	-	-	-	-	1	-	-	-	-
A-9	1	1	-	-	-	-	-	1	-	-	-	-
A-10	1	1	-	-	-	-	-	1	-	-	-	-
A-11	1	1	-	-	-	-	-	1	-	-	-	-
A-12	1	1	-	-	-	-	-	1	-	-	-	-
A-13	1	1	-	-	-	-	-	1	-	-	-	-
A-14	1	1	-	-	-	-	-	1	-	-	-	-
A-15	1	1	-	-	-	-	-	1	-	-	-	-
A-16	1	1	-	-	-	-	-	1	-	-	-	-
A-17	1	1	-	-	-	-	-	1	-	-	-	-
A-18	1	1	-	-	-	-	-	1	-	-	-	-
A-19	1	1	-	-	-	-	-	1	-	-	-	-
A-20	1	1	-	-	-	-	-	1	-	-	-	-
A-21	1	1	-	-	-	-	-	1	-	-	-	-
A-22	1	1	-	-	-	-	-	1	-	-	-	-
A-23	1	1	-	-	-	-	-	1	-	-	-	-
A-24	1	1	-	-	-	-	-	1	-	-	-	-
A-25	1	1	-	-	-	-	-	1	-	-	-	-
A-26	1	1	-	-	-	-	-	1	-	-	-	-
A-27	1	1	-	-	-	-	-	1	-	-	-	-
A-28	1	1	-	-	-	-	-	1	-	-	-	-
A-29	1	1	-	-	-	-	-	1	-	-	-	-
A-30	1	1	-	-	-	-	-	1	-	-	-	-
A-31	1	1	-	-	-	-	-	1	-	-	-	-
A-32	1	1	-	-	-	-	-	1	-	-	-	-

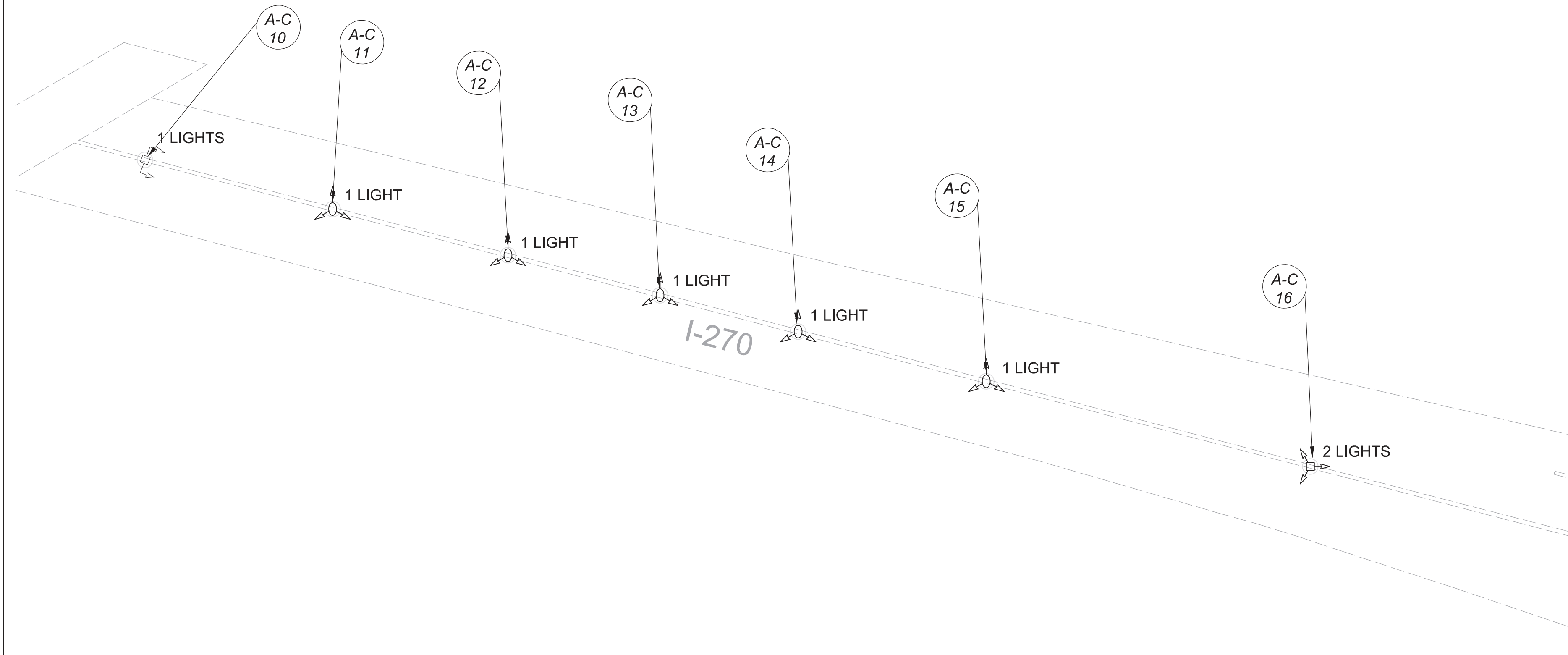
LEGEND

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER



Lighting Plan - Location 34b
I-71 - I-270 to S.R. 161

DESIGN AGENCY	
SINGH SINGH & ASSOCIATES, INC. CONSULTING ENGINEERS	
DESIGNER	
VN	
REVIEWER	
SG 03/11/22	
PROJECT ID	
112676	
SUBSET	TOTAL
1	2
SHEET	TOTAL
P.84	197



MATCHLINE BA-BB
SEE SHEET P.87

LEGEND

- EXISTING SYMMETRICAL HIGH MAST TOWER
- EXISTING ASYMMETRICAL HIGH MAST TOWER
- EXISTING SYMMETRICAL LOW MAST POLE
- EXISTING ASYMMETRICAL LOW MAST POLE
- EXISTING CONVENTIONAL LIGHT POLE
- EXISTING UNDERPASS LIGHTING UNIT
- EXISTING PULL BOX
- EXISTING CIRCUIT
- EXISTING CONDUIT
- EXISTING CONTROL CENTER

POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRES REMOVED AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE LUMINAIRE: HIGH MAST. SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 70-80k LUMENS, 480V	"PROPOSED LUMINAIRE LUMINAIRE, HIGH MAST. SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 70-80k LUMENS, 480V"	"PROPOSED LUMINAIRE LUMINAIRE, LOW MAST. SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 42-47k LUMENS, 480V"	"PROPOSED LUMINAIRE LUMINAIRE, LOW MAST. SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 28-32k LUMENS, 480V"	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR, AND SOCKET REMOVED"	EXISTING LUMINAIRE LUMINAIRE, LOW MAST TO REMAIN
A-C-10	-	-	-	-	-	-	-	-	1
A-C-11	-	-	-	-	-	-	-	-	1
A-C-12	-	-	-	-	-	-	-	-	1
A-C-13	-	-	-	-	-	-	-	-	1
A-C-14	-	-	-	-	-	-	-	-	1
A-C-15	-	-	-	-	-	-	-	-	1
A-C-16	6	2	-	2	-	-	-	4	-
A-8	4	1	-	-	1	-	-	3	-
A-9	4	2	-	-	2	-	-	2	-
A-10	4	2	-	-	2	-	-	2	-
A-11	4	2	-	-	2	-	-	2	-
A-12	4	2	-	-	2	-	-	2	-
B-9	4	2	-	-	2	-	-	2	-
B-10	4	2	-	-	2	-	-	2	-
B-11	6	4	-	2	-	-	-	4	-
B-12	6	3	3	3	-	-	-	-	-
B-13	4	2	-	2	-	-	-	2	-
B-M-1	6	4	-	4	-	-	-	2	-
B-M-2	4	4	-	4	-	-	-	-	-
B-M-3	-	-	-	-	-	-	-	-	1
B-M-4	-	-	-	-	-	-	-	-	1
B-M-5	-	-	-	-	-	-	-	-	1
C-8	6	2	-	-	2	-	-	4	-
C-9	4	1	-	-	1	-	-	3	-
C-10	4	2	-	2	-	-	-	2	-
C-11	4	2	-	2	-	-	-	2	-
C-12	6	1	-	-	1	-	-	5	-
D-8	4	1	-	-	1	-	-	3	-
D-9	4	1	-	-	1	-	-	3	-
D-10	4	2	-	-	2	-	-	2	-
D-11	6	3	3	3	-	-	-	-	-
D-12	4	2	-	-	2	-	-	2	-
E-1	4	1	-	-	1	-	-	3	-
E-2	4	2	-	2	-	-	-	2	-
E-3	4	2	-	2	-	-	-	2	-
E-4	4	2	-	-	2	-	-	2	-
E-5	4	1	-	-	1	-	-	3	-
E-6	4	2	-	2	-	-	-	2	-



Lighting Plan - Locations D06-35
I-270 and Cleveland

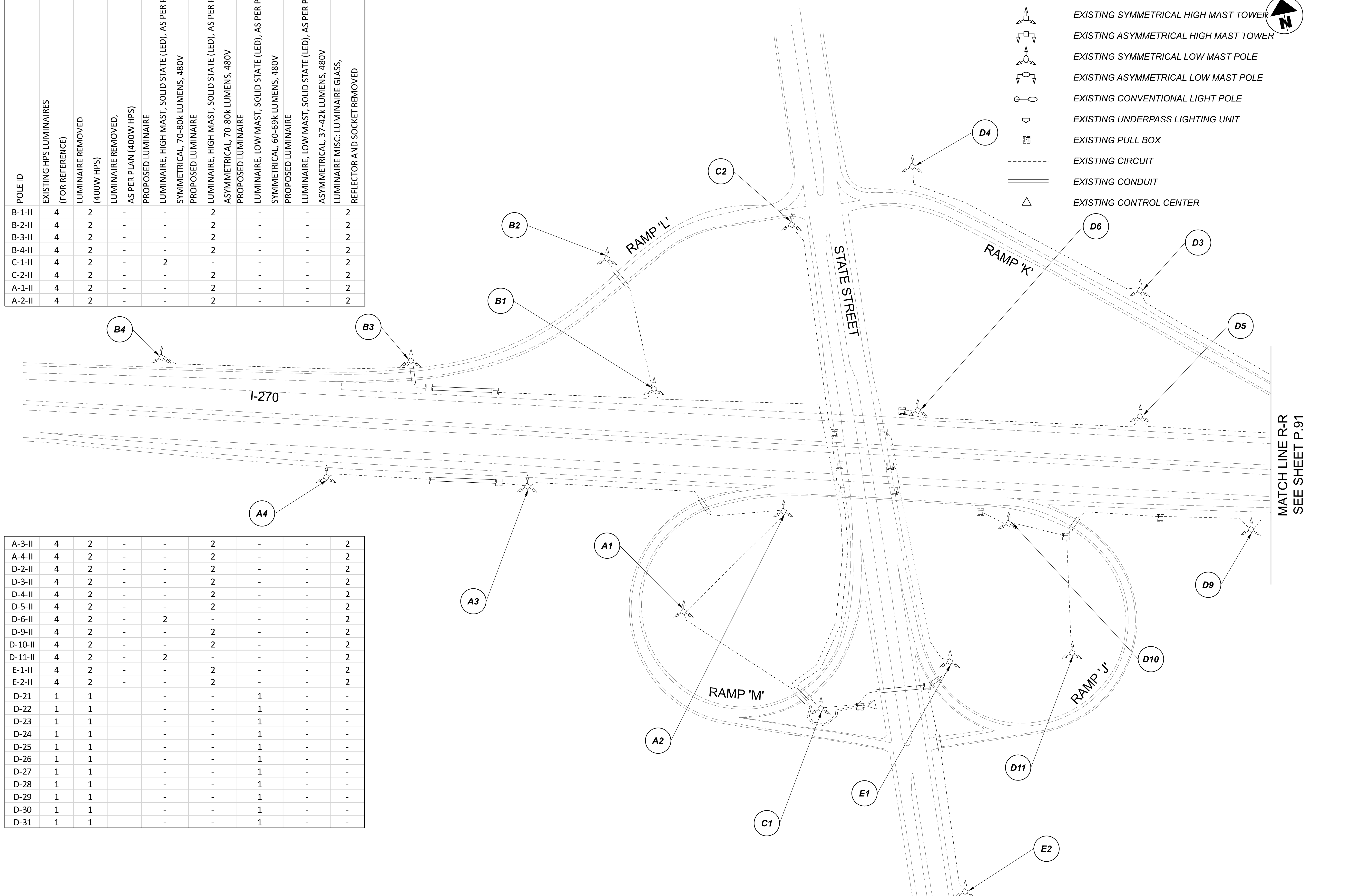
DESIGN AGENCY	
KZF DESIGN Designing Better Futures	
DESIGNER	
DT	
REVIEWER	
ES 03/11/22	
PROJECT ID	
112676	
SUBSET	TOTAL
1	4
SHEET	TOTAL
P.86	197

D06-Lighting Upgrade FY2021

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A-3-II	4	2	-	-	2	-	-	2
A-4-II	4	2	-	-	2	-	-	2
D-2-II	4	2	-	-	2	-	-	2
D-3-II	4	2	-	-	2	-	-	2
D-4-II	4	2	-	-	2	-	-	2
D-5-II	4	2	-	-	2	-	-	2
D-6-II	4	2	-	2	-	-	-	2
D-9-II	4	2	-	-	2	-	-	2
D-10-II	4	2	-	-	2	-	-	2
D-11-II	4	2	-	2	-	-	-	2
E-1-II	4	2	-	-	2	-	-	2
E-2-II	4	2	-	-	2	-	-	2
D-21	1	1	-	-	-	1	-	-
D-22	1	1	-	-	-	1	-	-
D-23	1	1	-	-	-	1	-	-
D-24	1	1	-	-	-	1	-	-
D-25	1	1	-	-	-	1	-	-
D-26	1	1	-	-	-	1	-	-
D-27	1	1	-	-	-	1	-	-
D-28	1	1	-	-	-	1	-	-
D-29	1	1	-	-	-	1	-	-
D-30	1	1	-	-	-	1	-	-
D-31	1	1	-	-	-	1	-	-

POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 60-69k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 37-42k LUMENS, 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
B-1-II	4	2	-	-	-	2	-	-	-	-	2	2
B-2-II	4	2	-	-	-	2	-	-	-	-	2	2
B-3-II	4	2	-	-	-	2	-	-	-	-	2	2
B-4-II	4	2	-	-	-	2	-	-	-	-	2	2
C-1-II	4	2	-	-	2	-	-	-	-	-	2	2
C-2-II	4	2	-	-	-	2	-	-	-	-	2	2
A-1-II	4	2	-	-	-	2	-	-	-	-	2	2
A-2-II	4	2	-	-	-	2	-	-	-	-	2	2



MATCH LINE R-R
SEE SHEET P.91

Lighting Plan - Location 36
I-270 and S.R. 3

HORIZONTAL SCALE IN FEET
0 50 100 200

DESIGN AGENCY
SINGH
SINGH + ASSOCIATES, INC.
CONSULTING ENGINEERS

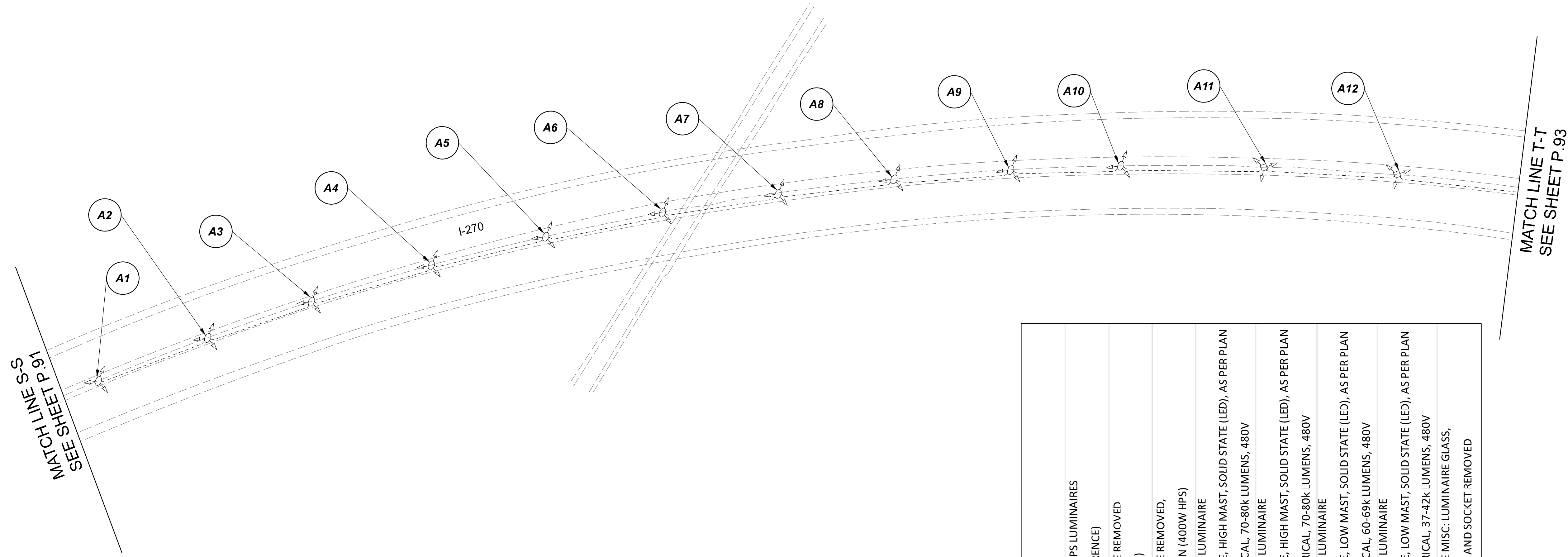
DESIGNER
VN

REVIEWER
SG 03/11/22

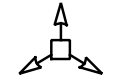
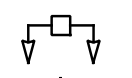
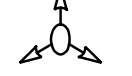
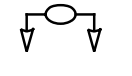
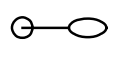


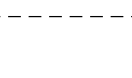
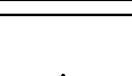

PROJECT ID
112676

SUBSET	TOTAL
1	2

SHEET	TOTAL
P.90	197

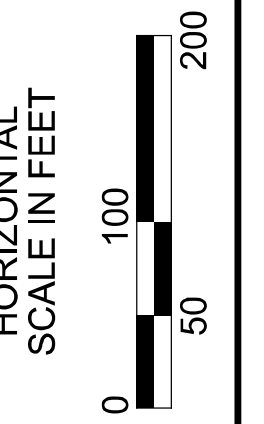


LEGEND

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER

POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 60-69k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 37-42k LUMENS, 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
A-1	1	1	-	-	-	-	-	1	-	-	-	-
A-2	1	1	-	-	-	-	-	1	-	-	-	-
A-3	1	1	-	-	-	-	-	1	-	-	-	-
A-4	1	1	-	-	-	-	-	1	-	-	-	-
A-5	1	1	-	-	-	-	-	1	-	-	-	-
A-6	1	1	-	-	-	-	-	1	-	-	-	-
A-7	1	1	-	-	-	-	-	1	-	-	-	-
A-8	1	1	-	-	-	-	-	1	-	-	-	-
A-9	1	1	-	-	-	-	-	1	-	-	-	-
A-10	1	1	-	-	-	-	-	1	-	-	-	-
A-11	4	2	-	2	-	-	-	-	-	-	2	-
A-12	4	2	-	2	-	-	-	-	-	-	2	-
A-13	6	3	3	3	-	-	-	-	-	-	-	-
B-1	6	3	3	3	-	-	-	-	-	-	-	-
B-2	6	3	3	3	-	-	-	-	-	-	-	-
B-3	6	3	3	3	-	-	-	-	-	-	-	-
B-4	6	3	3	3	-	-	-	-	-	-	-	-
B-5	6	3	3	3	-	-	-	-	-	-	-	-

MATCH LINE T-T
SEE SHEET P.93



Lighting Plan - Location 36a
I-270 - S.R. 3 to S.R. 161

DESIGN AGENCY



DESIGNER

VN

REVIEWER

SG 03/11/22

PROJECT ID

112676

SUBSET TOTAL

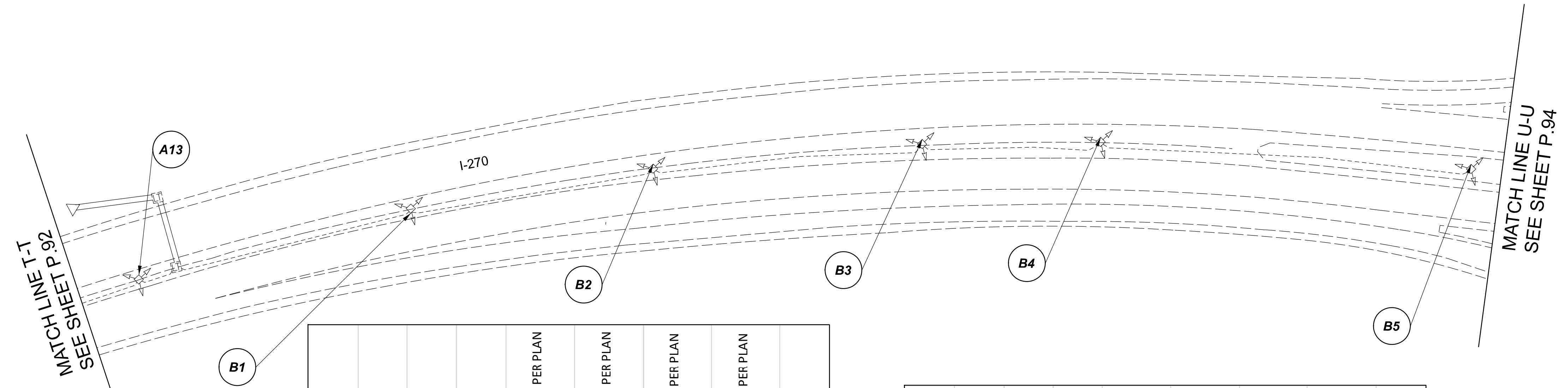
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SHEET TOTAL

P.92 197

D06-Lighting Upgrade FY2021

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LEGEND

- EXISTING SYMMETRICAL HIGH MAST TOWER
- EXISTING ASYMMETRICAL HIGH MAST TOWER
- EXISTING SYMMETRICAL LOW MAST POLE
- EXISTING ASYMMETRICAL LOW MAST POLE
- EXISTING CONVENTIONAL LIGHT POLE
- EXISTING UNDERPASS LIGHTING UNIT
- EXISTING PULL BOX
- EXISTING CIRCUIT
- EXISTING CONDUIT
- EXISTING CONTROL CENTER

POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 42-47k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 37-42k LUMENS, 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
C1	6	3	3	3	3	-	-	-	-	-	-	-
C2	4	2	-	2	2	-	-	-	-	-	-	2
C3	6	3	3	3	3	-	-	-	-	-	-	-
C4	6	3	3	3	3	-	-	-	-	-	-	-
C5	6	3	3	3	3	-	-	-	-	-	-	-
D1	1	1	-	-	-	-	-	1	-	-	-	-
D2	1	1	-	-	-	-	-	1	-	-	-	-
D3	1	1	-	-	-	-	-	1	-	-	-	-
D4	1	1	-	-	-	-	-	1	-	-	-	-
D5	1	1	-	-	-	-	-	1	-	-	-	-
D6	1	1	-	-	-	-	-	1	-	-	-	-
D7	1	1	-	-	-	-	-	1	-	-	-	-
D8	1	1	-	-	-	-	-	1	-	-	-	-
D9	1	1	-	-	-	-	-	1	-	-	-	-
D10	1	1	-	-	-	-	-	1	-	-	-	-

D11	1	1	-	-	-	-	-	1	-	-	-	-
D12	1	1	-	-	-	-	-	1	-	-	-	-
E1	6	3	3	3	-	-	-	-	-	-	-	-
E2	6	3	3	3	-	-	-	-	-	-	-	-
E3	4	2	-	2	-	-	-	-	-	-	-	2
E4	6	3	3	3	-	-	-	-	-	-	-	-
E5	6	3	3	3	-	-	-	-	-	-	-	-
E6	4	2	-	2	-	-	-	-	-	-	-	2
E7	6	3	3	3	-	-	-	-	-	-	-	-
F1	6	3	3	3	-	-	-	-	-	-	-	-
F2	6	3	3	3	-	-	-	-	-	-	-	-
F3	6	3	3	3	-	-	-	-	-	-	-	-
F4	6	3	3	3	-	-	-	-	-	-	-	-
F5	6	4	-	4	-	-	-	-	-	-	-	2
G1	6	4	-	4	-	-	-	-	-	-	-	2
G2	6	3	3	3	-	-	-	-	-	-	-	-
G3	6	3	3	3	-	-	-	-	-	-	-	-
G4	6	3	3	3	-	-	-	-	-	-	-	-
H1	6	3	3	3	-	-	-	-	-	-	-	-
H2	4	2	-	2	-	-	-	-	-	-	-	2
H3	6	3	3	3	-	-	-	-	-	-	-	-
H4	6	3	3	3	-	-	-	-	-	-	-	-
HH1	4	2	-	2	-	-	-	-	-	-	-	2
HH2	4	2	-	2	-	-	-	-	-	-	-	2
HH3	4	2	-	2	-	-	-	-	-	-	-	2
HH4	6	3	3	3	-	-	-	-	-	-	-	-
HH5	6	3	3	3	-	-	-	-	-	-	-	-

HORIZONTAL SCALE IN FEET
 0 50 100 200

Lighting Plan - Location 36a
 I-270 - S.R. 3 to S.R. 161

DESIGN AGENCY
 SINGH + ASSOCIATES, INC. CONSULTING ENGINEERS

DESIGNER
 VN

REVIEWER
 SG 03/11/22

PROJECT ID
 112676

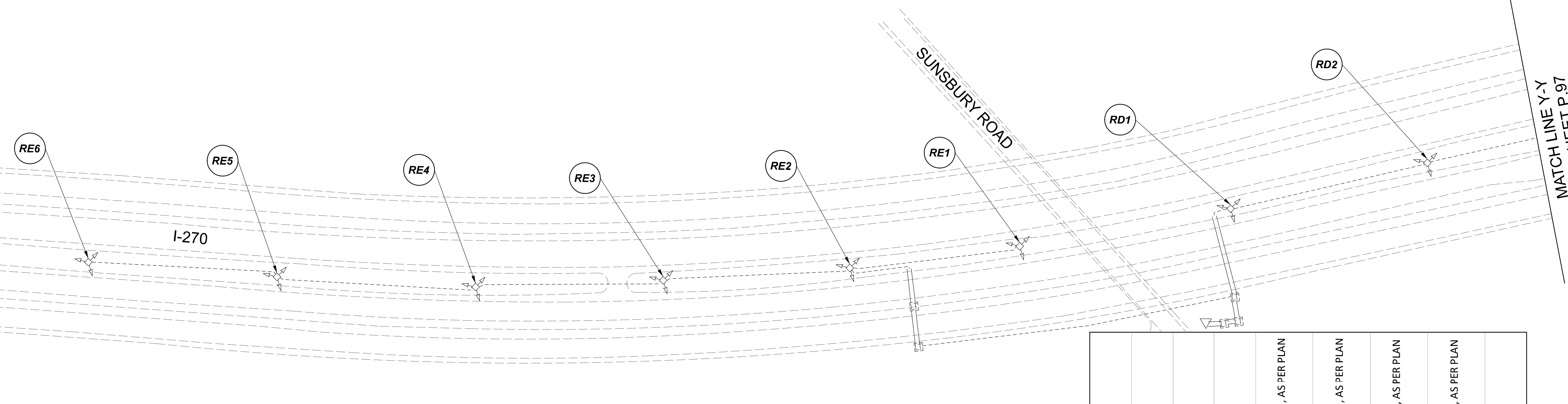
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2	2

SHEET	TOTAL
P.93	197

D06-Lighting Upgrade FY2021

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MATCH LINE X-X
SEE SHEET P.95

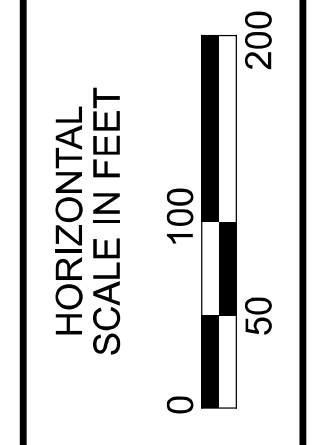
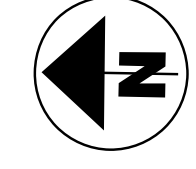


LEGEND

- EXISTING SYMMETRICAL HIGH MAST TOWER
- EXISTING ASYMMETRICAL HIGH MAST TOWER
- EXISTING SYMMETRICAL LOW MAST POLE
- EXISTING ASYMMETRICAL LOW MAST POLE
- EXISTING CONVENTIONAL LIGHT POLE
- EXISTING UNDERPASS LIGHTING UNIT
- EXISTING PULL BOX
- EXISTING CIRCUIT
- EXISTING CONDUIT
- EXISTING CONTROL CENTER

POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 42-47k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 37-42k LUMENS, 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
RF-1	6	3	3	3	3							
RE-2	6	3	3	3	3							
RE-3	6	3	3	3	3							
RE-4	6	3	3	3	3							
RE-5	6	3	3	3	3							
RE-6	6	3	3	3	3							
RD-1	6	3	3	3	3							
RD-2	6	3	3	3	3							
RD-3	6	3	3	3	3							
RD-4	6	3	3	3	3							
RD-5	6	3	3	3	3							
RD-6	6	3	3	3	3							
RD-7	6	3	3	3	3							

MATCH LINE Y-Y
SEE SHEET P.97



Lighting Plan - Location 37a
I-270 - S.R. 161 to Morse Road

DESIGN AGENCY
 SINGH + ASSOCIATES, INC. CONSULTING ENGINEERS

DESIGNER
VN

REVIEWER
SG 03/11/22

PROJECT ID
112676

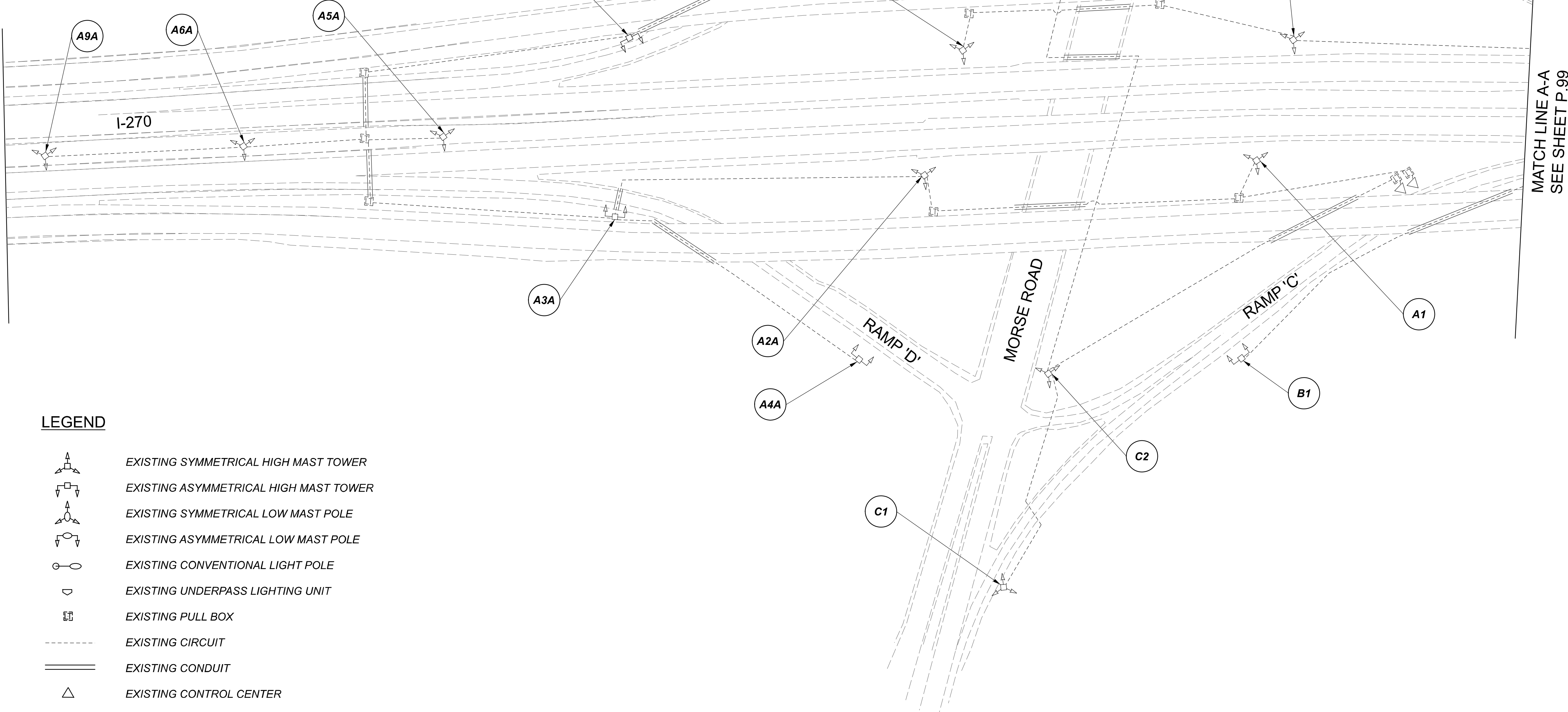
SUBSET	TOTAL
1	2

SHEET	TOTAL
P.96	197

MATCH LINE Z-Z
SEE SHEET P.97

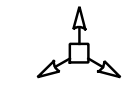
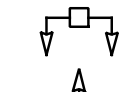
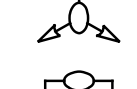
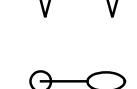


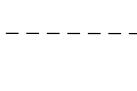
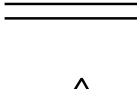
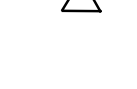

POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN	SYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN	ASYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN	ASYMMETRICAL, 37-42k LUMENS, 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
A1	6	3	3	3	-	-	-	-	-	-	-	-	-
A2	6	3	3	3	-	-	-	-	-	-	-	-	-
A3A	4	2	-	-	2	-	-	-	-	-	-	2	-
A4	4	2	-	-	2	-	-	-	-	-	-	2	-
A5A	6	3	3	3	-	-	-	-	-	-	-	-	-
A6A	6	3	3	3	-	-	-	-	-	-	-	-	-

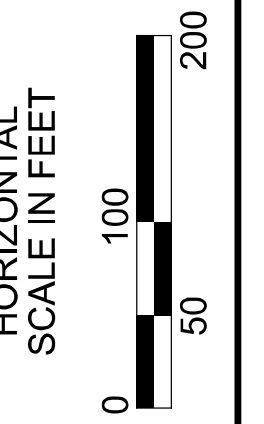
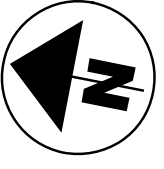
A7A	4	2	-	2	-	-	-	2	-	-	-	-	2
A8	4	2	-	-	2	-	-	-	-	-	-	-	2
A9A	6	3	3	3	-	-	-	-	-	-	-	-	-
B1	4	2	-	-	2	-	-	-	-	-	-	-	2
B2A	4	2	-	2	-	-	-	-	-	-	-	-	2
B3A	6	3	3	3	-	-	-	-	-	-	-	-	-
B4A	6	3	3	3	-	-	-	-	-	-	-	-	-
B5A	6	3	3	3	-	-	-	-	-	-	-	-	-
B/A	4	2	-	2	-	-	-	-	-	-	-	2	-
B8	4	2	-	-	2	-	-	-	-	-	-	2	-
B9	6	3	3	3	-	-	-	-	-	-	-	-	-
B10	6	3	3	3	-	-	-	-	-	-	-	-	-
C2	6	3	3	3	-	-	-	-	-	-	-	-	-
C3	6	3	3	3	-	-	-	-	-	-	-	-	-
C1	6	3	3	3	-	-	-	-	-	-	-	-	-



MATCH LINE A-A
SEE SHEET P.99

LEGEND

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER



Lighting Plan - Location 38
I-270 and Morse Road

DESIGN AGENCY



DESIGNER

VN

REVIEWER

SG 03/11/22

PROJECT ID

112676

SUBSET TOTAL

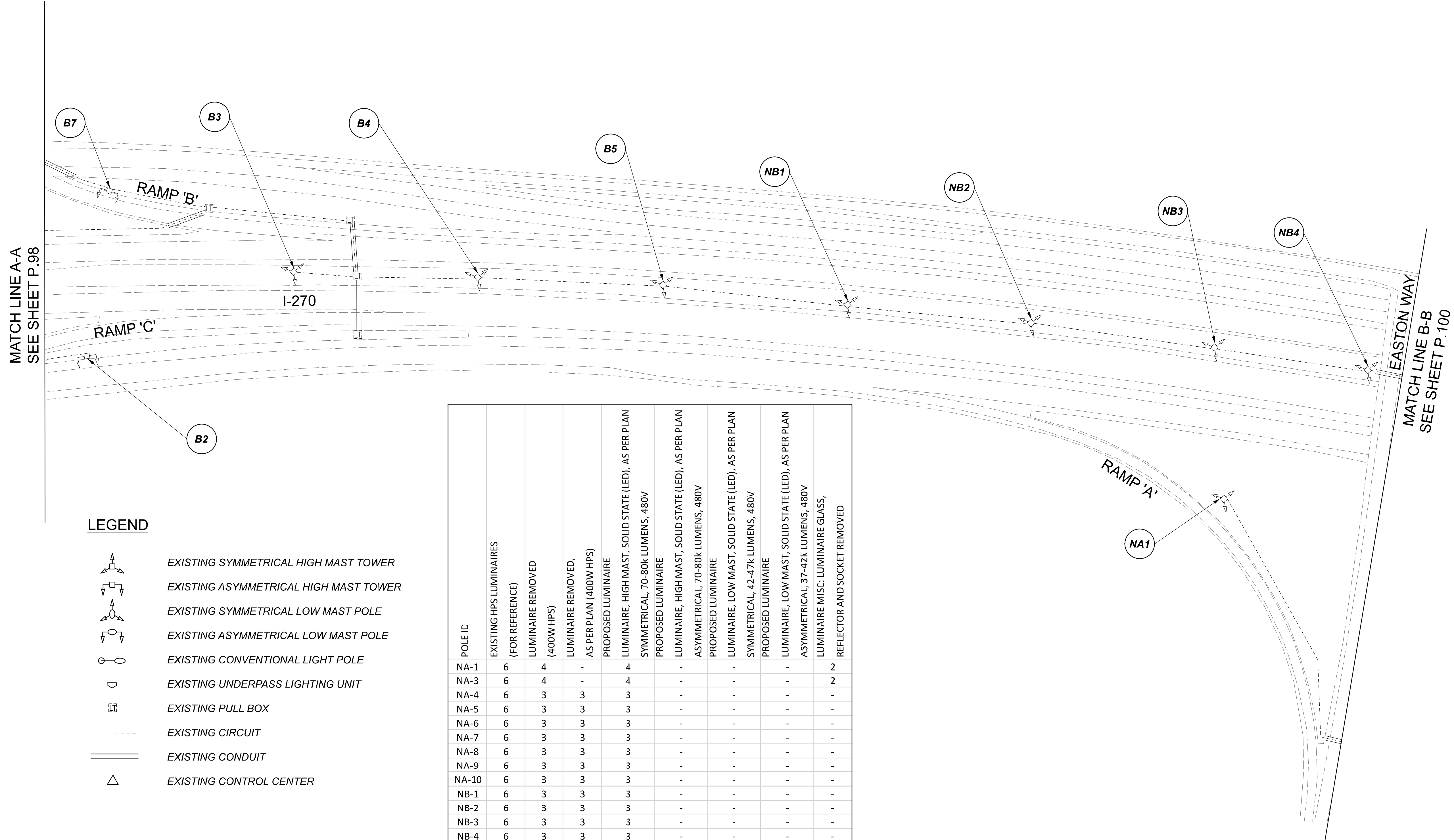
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SHEET TOTAL

P.98 197

D06-Lighting Upgrade FY2021

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LEGEND

- EXISTING SYMMETRICAL HIGH MAST TOWER
- EXISTING ASYMMETRICAL HIGH MAST TOWER
- EXISTING SYMMETRICAL LOW MAST POLE
- EXISTING ASYMMETRICAL LOW MAST POLE
- EXISTING CONVENTIONAL LIGHT POLE
- EXISTING UNDERPASS LIGHTING UNIT
- EXISTING PULL BOX
- EXISTING CIRCUIT
- EXISTING CONDUIT
- EXISTING CONTROL CENTER

POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 42-47k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 37-42k LUMENS, 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
NA-1	6	4	-	4	-	-	-	-	-	-	-	2
NA-3	6	4	-	4	-	-	-	-	-	-	-	2
NA-4	6	3	3	3	-	-	-	-	-	-	-	-
NA-5	6	3	3	3	-	-	-	-	-	-	-	-
NA-6	6	3	3	3	-	-	-	-	-	-	-	-
NA-7	6	3	3	3	-	-	-	-	-	-	-	-
NA-8	6	3	3	3	-	-	-	-	-	-	-	-
NA-9	6	3	3	3	-	-	-	-	-	-	-	-
NA-10	6	3	3	3	-	-	-	-	-	-	-	-
NB-1	6	3	3	3	-	-	-	-	-	-	-	-
NB-2	6	3	3	3	-	-	-	-	-	-	-	-
NB-3	6	3	3	3	-	-	-	-	-	-	-	-
NB-4	6	3	3	3	-	-	-	-	-	-	-	-
NB-5	6	3	3	3	-	-	-	-	-	-	-	-

DESIGN AGENCY



DESIGNER
VN

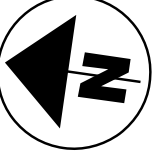
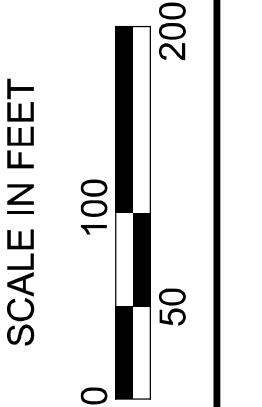
REVIEWER
SG 03/11/22

PROJECT ID
112676

SUBSET	TOTAL
1	2

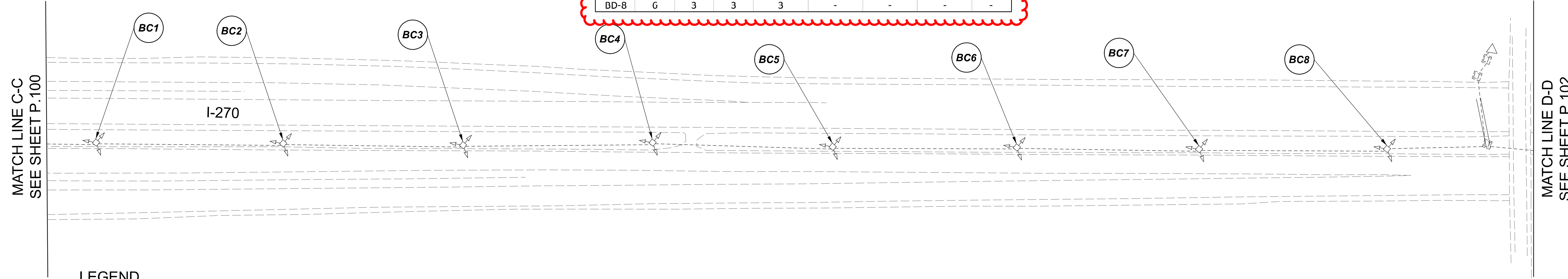
SHEET	TOTAL
P.99	197

Lighting Plan - Location 39
I-270 and Easton Way


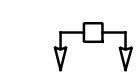

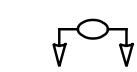
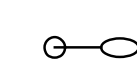


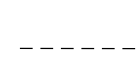
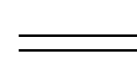



D06-Lighting Upgrade FY2021

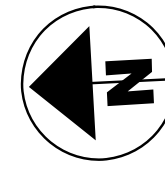
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LEGEND

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER

POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 42-47k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 37-42k LUMENS, 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
BC-1	6	3	3	3								
BC-2	6	3	3	3								
BC-3	6	3	3	3								
BC-4	6	3	3	3								
BC-5	6	3	3	3								
BC-6	6	3	3	3								
BC-7	6	3	3	3								
BC-8	6	3	3	3								
BD-1	6	3	3	3								
BD-2	6	3	3	3								
BD-3	6	3	3	3								
BD-4	6	3	3	3								
BD-5	6	3	3	3								
BD-6	6	3	3	3								
BD-7	6	3	3	3								
BD-8	6	3	3	3								



Lighting Plan - Location 39a
 I-270 - Easton Way to I-670

DESIGN AGENCY



DESIGNER

VN

REVIEWER

SG 03/11/22

PROJECT ID

112676

SUBSET TOTAL

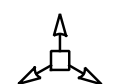
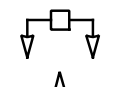
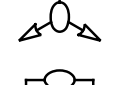
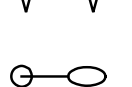


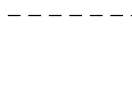



1 2

SHEET TOTAL

P.101 197

MATCH LINE E-E
SEE SHEET P.102

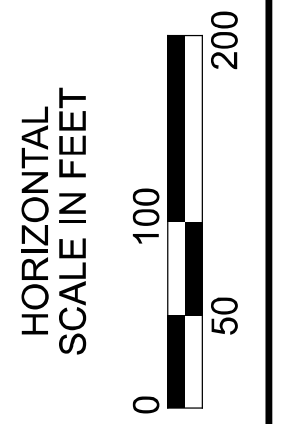
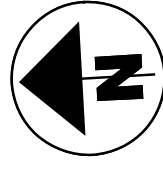
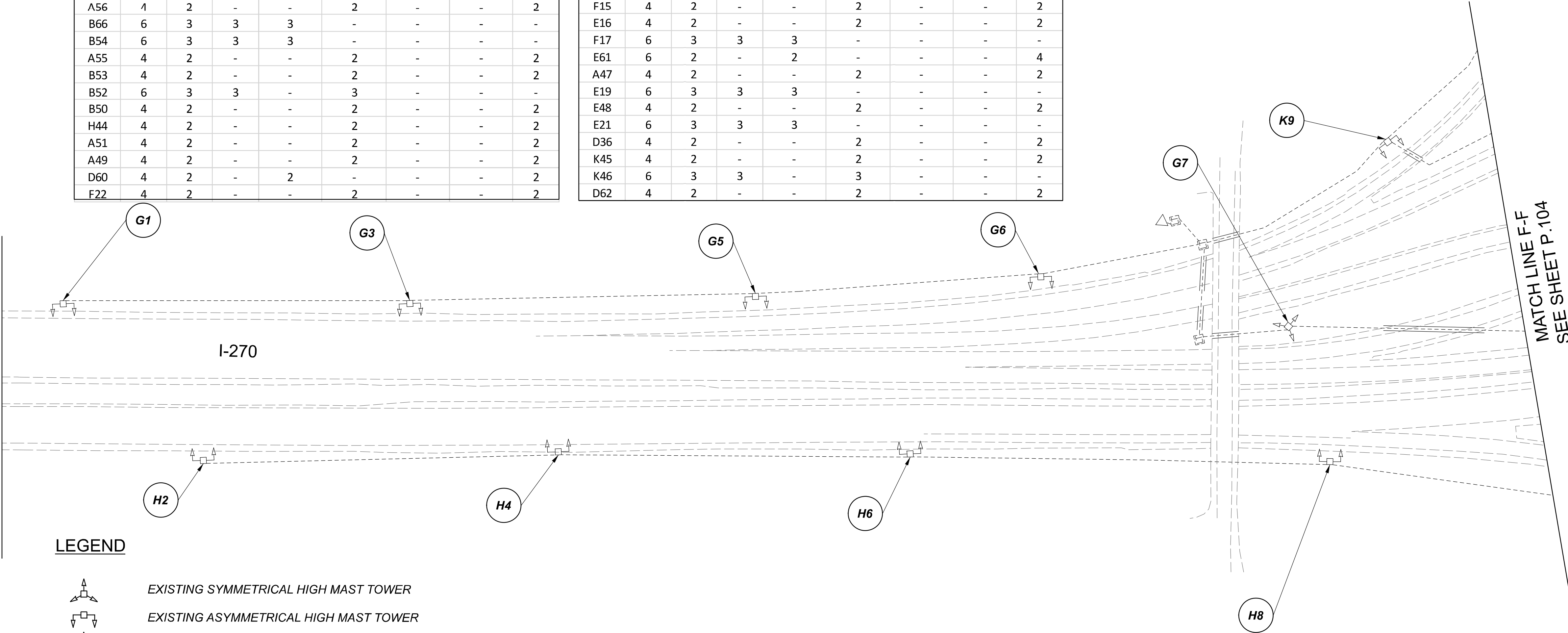
LEGEND

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER

POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN	SYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN	ASYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN	SYMMETRICAL, 37-42k LUMENS, 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
B68	4	2	-	-	2	-	2	-	-	2	-	-	2
A57	4	2	-	-	2	-	-	-	-	-	-	-	2
B67	4	2	-	-	2	-	-	-	-	-	-	-	2
A56	4	2	-	-	2	-	-	-	-	-	-	-	2
B66	6	3	3	3	-	-	-	-	-	-	-	-	-
B54	6	3	3	3	-	-	-	-	-	-	-	-	-
A55	4	2	-	-	2	-	-	-	-	-	-	-	2
B53	4	2	-	-	2	-	-	-	-	-	-	-	2
B52	6	3	3	-	3	-	-	-	-	-	-	-	-
B50	4	2	-	-	2	-	-	-	-	-	-	-	2
H44	4	2	-	-	2	-	-	-	-	-	-	-	2
A51	4	2	-	-	2	-	-	-	-	-	-	-	2
A49	4	2	-	-	2	-	-	-	-	-	-	-	2
D60	4	2	-	2	-	-	-	-	-	-	-	-	2
F22	4	2	-	-	2	-	-	-	-	-	-	-	2

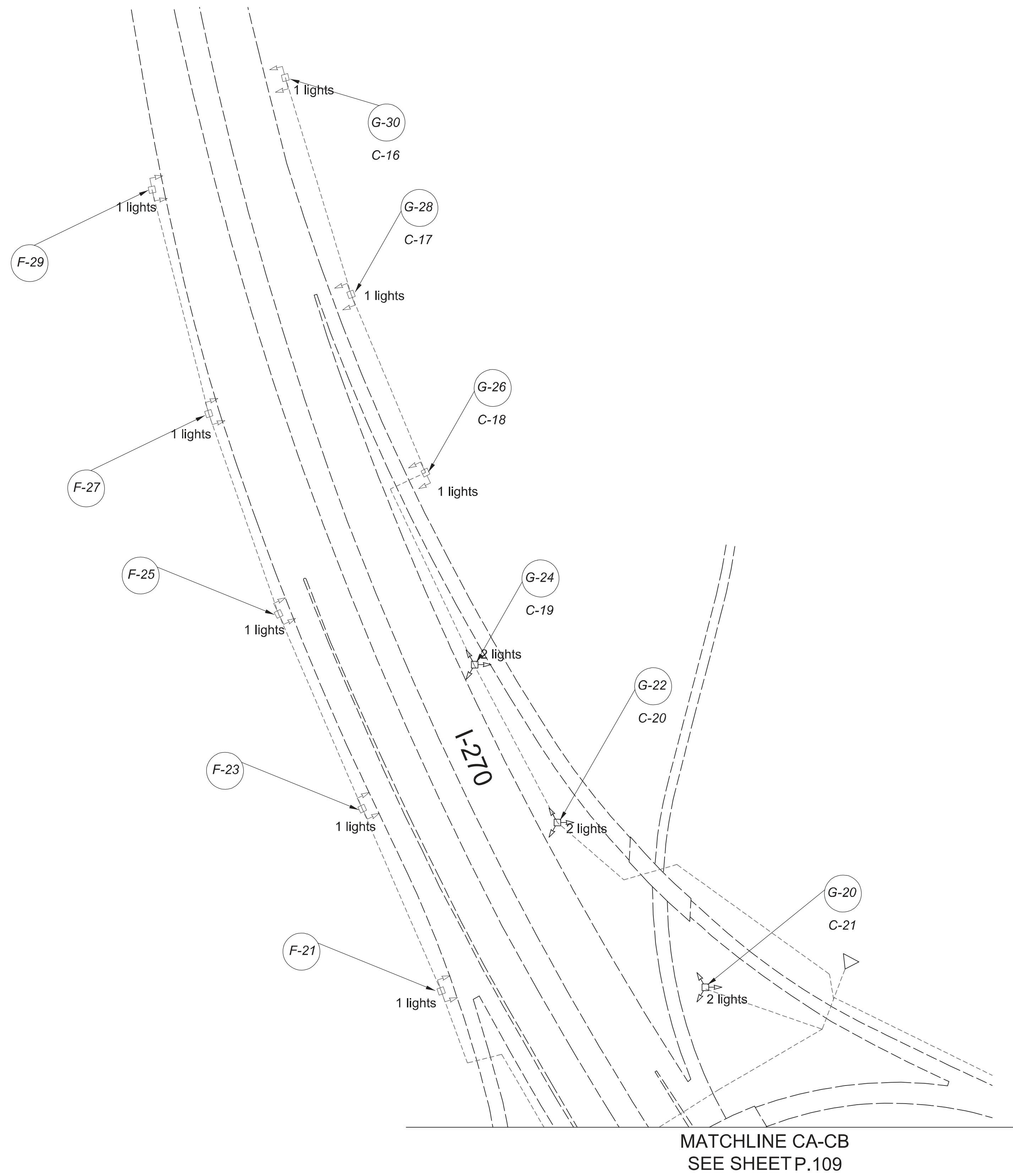
E23	4	2	-	-	2	-	-	-	-	2	-	-	2
D24	4	2	-	2	-	-	-	-	-	-	-	-	2
F25	4	2	-	-	2	-	-	-	-	-	-	-	2
E26	4	2	-	-	2	-	2	-	-	-	-	-	2
F27	4	2	-	2	-	-	-	-	-	-	-	-	2
E28	4	2	-	-	2	-	-	-	-	-	-	-	2
F29	4	2	-	2	-	-	-	-	-	-	-	-	2
E30	4	2	-	-	2	-	-	-	-	-	-	-	2
D31	4	2	-	-	2	-	-	-	-	-	-	-	2
E32	4	2	-	-	2	-	-	-	-	-	-	-	2
D33	4	2	-	-	2	-	-	-	-	-	-	-	2
K34	4	2	-	-	2	-	-	-	-	-	-	-	2
I40	4	2	-	-	2	-	-	-	-	-	-	-	2
I41	4	2	-	-	2	-	-	-	-	-	-	-	2
G10	4	2	-	2	-	-	-	-	-	-	-	-	2
G12	4	2	-	-	2	-	-	-	-	-	-	-	2
C13	4	2	-	-	2	-	-	-	-	-	-	-	2
E30 / H11	4	2	-	-	2	-	-	-	-	-	-	-	2
C58	6	3	3	-	3	-	-	-	-	-	-	-	-
I43	6	3	3	-	3	-	-	-	-	-	-	-	-
I42	4	2	-	-	2	-	-	-	-	-	-	-	2
F15	4	2	-	-	2	-	-	-	-	-	-	-	2
E16	4	2	-	-	2	-	-	-	-	-	-	-	2
F17	6	3	3	3	-	-	-	-	-	-	-	-	-
E61	6	2	-	2	-	-	-	-	-	-	-	-	4
A47	4	2	-	-	2	-	-	-	-	-	-	-	2
E19	6	3	3	3	-	-	-	-	-	-	-	-	-
E48	4	2	-	-	2	-	-	-	-	-	-	-	2
E21	6	3	3	3	-	-	-	-	-	-	-	-	-
D36	4	2	-	-	2	-	-	-	-	-	-	-	2
K45	4	2	-	-	2	-	-	-	-	-	-	-	2
K46	6	3	3	-	3	-	-	-	-	-	-	-	-
D62	4	2	-	-	2	-	-	-	-	-	-	-	2

F18	6	3	3	-	3	-	-	-	-	-	-	-	-
F20	6	3	3	-	3	-	-	-	-	-	-	-	-
K35	4	2	-	-	2	-	-	-	-	-	-	-	2
K37	4	2	-	-	2	-	-	-	-	-	-	-	2
K39	4	2	-	-	2	-	-	-	-	-	-	-	2
D65	4	2	-	-	2	-	-	-	-	-	-	-	2
D38	4	2	-	-	2	-	-	-	-	-	-	-	2
G1	4	2	-	-	2	-	-	-	-	-	-	-	2
G3	4	2	-	-	2	-	-	-	-	-	-	-	2
G5	4	2	-	-	2	-	-	-	-	-	-	-	2
G6	4	2	-	-	2	-	-	-	-	-	-	-	2
G7	4	2	-	-	2	-	-	-	-	-	-	-	2
H2	4	2	-	-	2	-	-	-	-	-	-	-	2
H44	4	2	-	-	2	-	-	-	-	-	-	-	2
H6	4	2	-	-	2	-	-	-	-	-	-	-	2
H8	4	2	-	-	2	-	-	-	-	-	-	-	2
K9	4	2	-	-	2	-	-	-	-	-	-	-	2
I14	4	2	-	-	2	-	-	-	-	-	-	-	2
XX1	4	2	-	-	2	-	-	-	-	-	-	-	2



Lighting Plan - Location 40
I-270 and I-670

DESIGN AGENCY	
SINGH SINGH & ASSOCIATES, INC. CONSULTING ENGINEERS	
DESIGNER	
VN	
REVIEWER	
SG 03/11/22	
PROJECT ID	
112676	
SUBSET	TOTAL
1	5
SHEET	
P.103	TOTAL 197



LEGEND

- EXISTING SYMMETRICAL HIGH MAST TOWER
- EXISTING ASYMMETRICAL HIGH MAST TOWER
- EXISTING SYMMETRICAL LOW MAST POLE
- EXISTING ASYMMETRICAL LOW MAST POLE
- EXISTING CONVENTIONAL LIGHT POLE
- EXISTING UNDERPASS LIGHTING UNIT
- EXISTING PULL BOX
- EXISTING CIRCUIT
- EXISTING CONDUIT
- EXISTING CONTROL CENTER



POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRES REMOVED AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 70-80k LUMENS, 480V	"PROPOSED LUMINAIRE LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 70-80k LUMENS, 480V"	"PROPOSED LUMINAIRE LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 42-47k LUMENS, 480V"	"PROPOSED LUMINAIRE LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 28-32k LUMENS, 480V" "LUMINAIRE MISC. :	LUMINAIRE MISC. : LUMINAIRE GLASS, REFLECTOR, AND SOCKET REMOVED"
B-9	3	2	-	-	2	-	-	1
B-11	5	2	-	2	-	-	-	3
B-13	5	2	-	2	-	-	-	3
B-15	5	2	-	2	-	-	-	3
B-32	5	1	-	1	-	-	-	4
B-33	5	1	-	-	1	-	-	4
C-8	3	2	-	-	2	-	-	1
C-10	3	1	-	1	-	-	-	2
C-12	5	1	-	-	1	-	-	4
C-14	5	2	-	2	-	-	-	3
C-16	5	2	-	2	-	-	-	3
C-34	5	2	-	2	-	-	-	3
D-36	5	2	-	2	-	-	-	3
D-37	5	2	-	2	-	-	-	3
D-47	4	2	-	-	2	-	-	2
E-38	4	2	-	-	2	-	-	2
F-17	5	2	-	2	-	-	-	3
F-19	5	2	-	2	-	-	-	3
F-21	3	1	-	-	1	-	-	2
F-23	3	1	-	-	1	-	-	2
F-25	3	1	-	-	1	-	-	2
F-27	3	1	-	-	1	-	-	2
F-29	3	1	-	-	1	-	-	2
F-31	5	2	-	2	-	-	-	3
G-18	5	2	-	2	-	-	-	3
G-20	5	2	-	2	-	-	-	3
G-22	3	2	-	2	-	-	-	1
G-24	3	2	-	2	-	-	-	1
G-26	3	1	-	-	1	-	-	2
G-28	3	1	-	-	1	-	-	2
G-30	3	1	-	-	1	-	-	2
G-35	5	2	-	2	-	-	-	3

Lighting Plan - Locations D06-41
I-270 and East Broad

DESIGN AGENCY



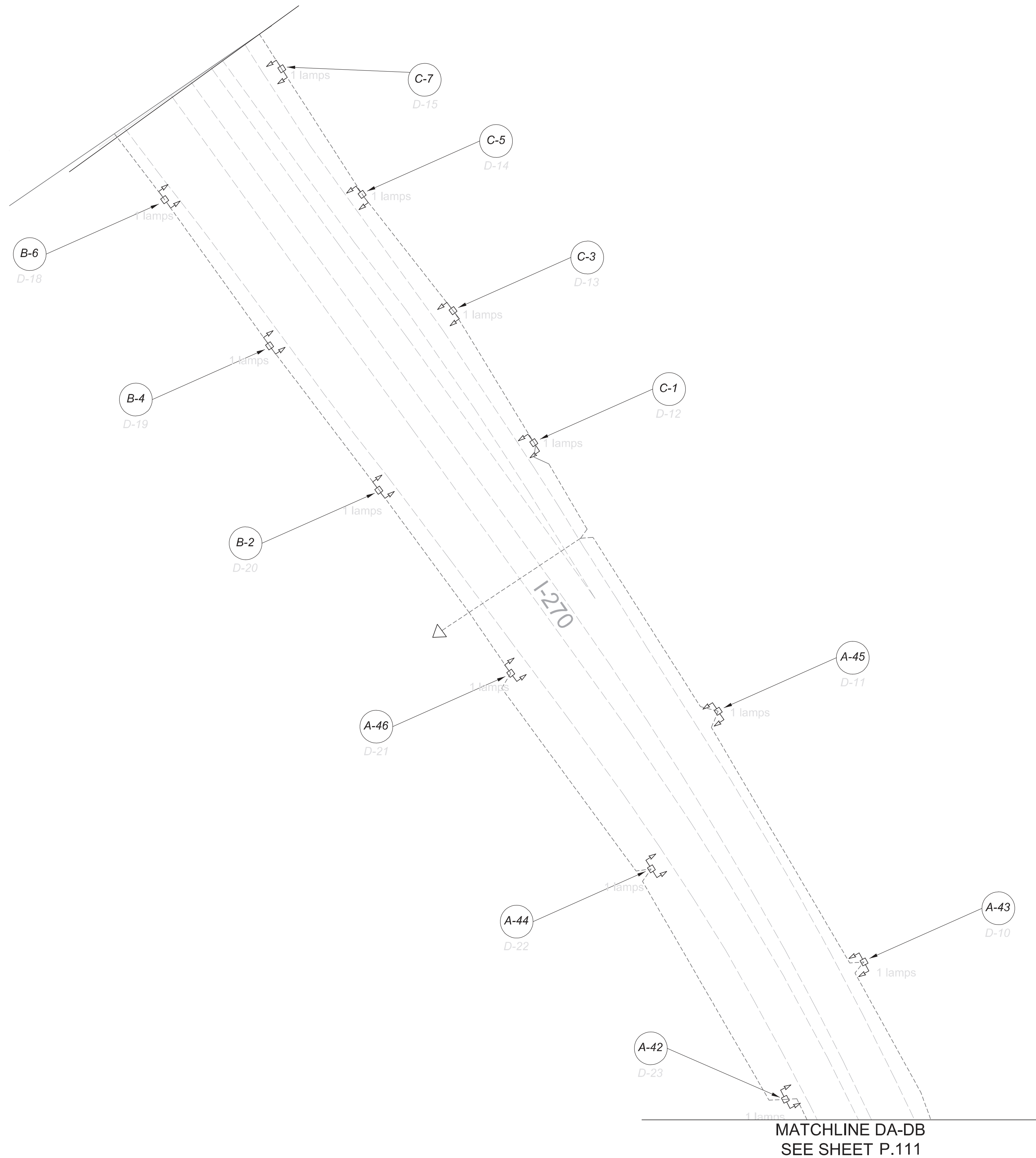
DESIGNER
DT

REVIEWER
ES 03/11/22

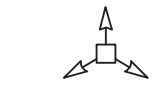
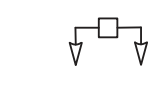






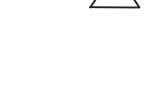

PROJECT ID
112676

SUBSET	TOTAL
1	2

SHEET	TOTAL
P.108	197

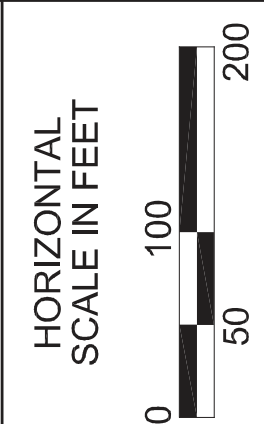


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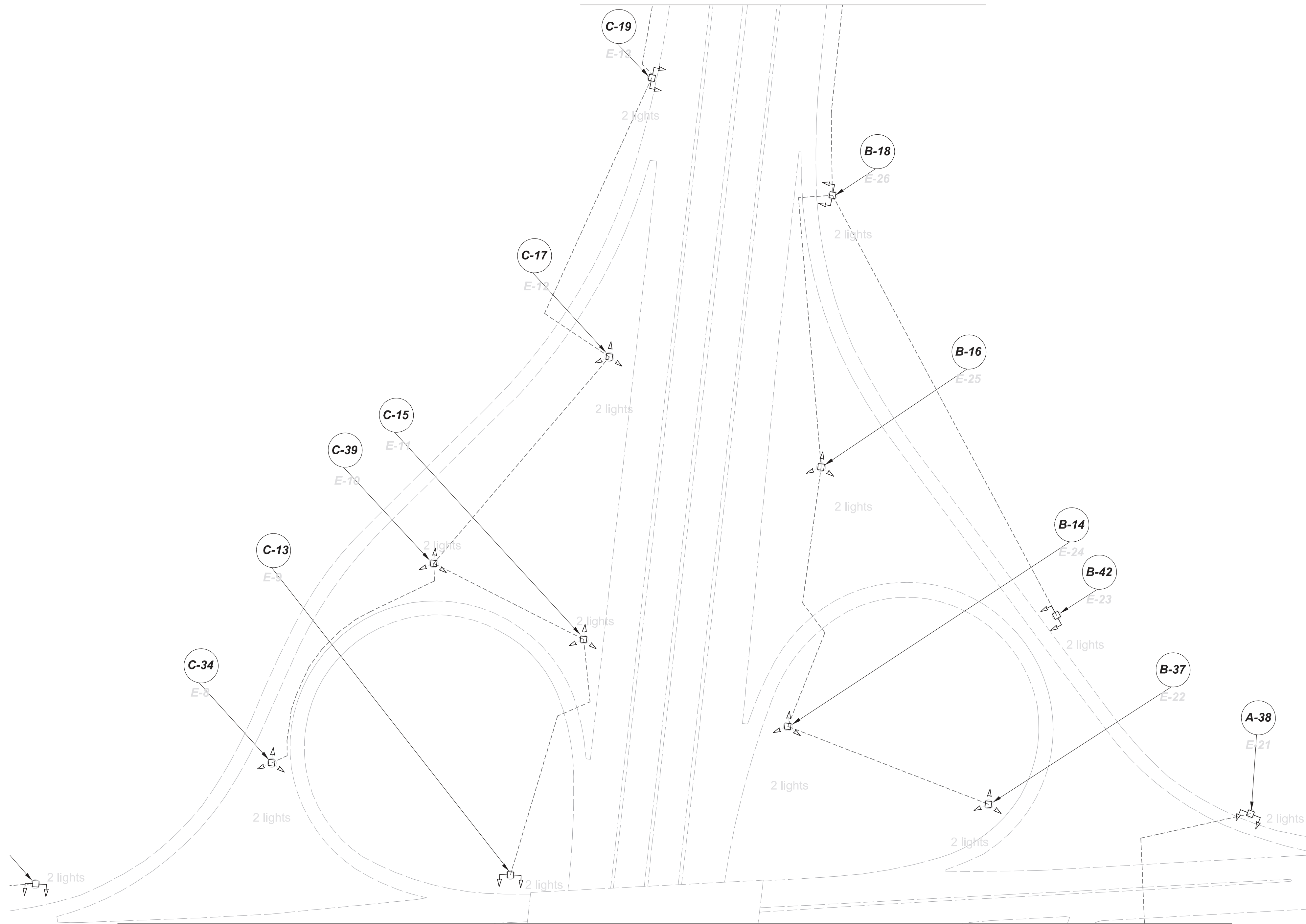
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-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER

POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRES REMOVED AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 70-80k LUMENS, 480V	"PROPOSED LUMINAIRE LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 70-80k LUMENS, 480V"	"PROPOSED LUMINAIRE LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 42-47k LUMENS, 480V"	"PROPOSED LUMINAIRE LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 28-32k LUMENS, 480V"	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR, AND SOCKET REMOVED"
A-40	4	1	-	-	1	-	-	3
A-41	4	1	-	-	1	-	-	3
A-42	4	1	-	-	1	-	-	3
A-43	4	1	-	-	1	-	-	3
A-44	4	1	-	-	1	-	-	3
A-45	4	1	-	-	1	-	-	3
A-46	4	1	-	-	1	-	-	3
B-2	3	1	-	-	1	-	-	2
B-4	3	1	-	-	1	-	-	2
B-6	3	1	-	-	1	-	-	2
B-9	3	2	-	-	2	-	-	1
B-18	4	3	-	-	3	-	-	1
B-21	4	1	-	-	1	-	-	3
B-23	4	1	-	-	1	-	-	3
B-25	4	1	-	-	1	-	-	3
B-27	4	1	-	-	1	-	-	3
B-29	4	1	-	-	1	-	-	3
B-31	4	1	-	-	1	-	-	3
B-45	4	1	-	-	1	-	-	3
C-1	3	1	-	-	1	-	-	2
C-3	3	1	-	-	1	-	-	2
C-5	3	1	-	-	1	-	-	2
C-7	3	1	-	-	1	-	-	2
C-8	4	2	-	-	2	-	-	2
C-19	4	3	-	-	3	-	-	1
C-20	4	1	-	-	1	-	-	3
C-22	4	1	-	-	1	-	-	3
C-24	4	1	-	-	1	-	-	3
C-26	4	1	-	-	1	-	-	3
C-28	4	1	-	-	1	-	-	3
C-30	4	1	-	-	1	-	-	3

Lighting Plan - Locations D06-41a
I-270 and Broad to Main

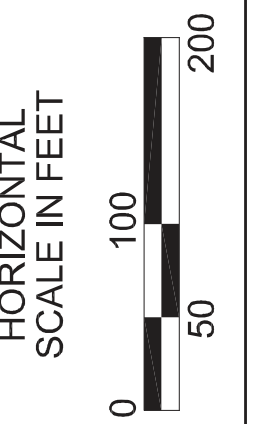


DESIGN AGENCY	
KZF SIGMA Designing Better Futures	
DESIGNER	
DT	
REVIEWER	
ES 03/11/22	
PROJECT ID	
112676	
SUBSET	TOTAL
1	3
SHEET	TOTAL
P.110	197



LEGEND

- EXISTING SYMMETRICAL HIGH MAST TOWER
- EXISTING ASYMMETRICAL HIGH MAST TOWER
- EXISTING SYMMETRICAL LOW MAST POLE
- EXISTING ASYMMETRICAL LOW MAST POLE
- EXISTING CONVENTIONAL LIGHT POLE
- EXISTING UNDERPASS LIGHTING UNIT
- EXISTING PULL BOX
- EXISTING CIRCUIT
- EXISTING CONDUIT
- EXISTING CONTROL CENTER



POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRES REMOVED AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 42-47k LUMENS, 480V	PROPOSED LUMINAIRE LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 28-32k LUMENS, 480V	LUMINAIRE MISC.: LUMINAIRE GLASS, REFLECTOR, AND SOCKET REMOVED
A-38	4	2	-	-	2	-	-	2
B-14	6	2	-	2	-	-	-	4
B-16	6	2	-	2	-	-	-	4
B-18	6	2	-	-	2	-	-	4
B-37	6	2	-	2	-	-	-	4
B-42	4	2	-	-	2	-	-	2
C-13	4	2	-	2	-	-	-	2
C-15	6	2	-	2	-	-	-	4
C-17	6	2	-	2	-	-	-	4
C-19	4	2	-	-	2	-	-	2
C-34	6	2	-	2	-	-	-	4
C-39	6	2	-	2	-	-	-	4
D-32	6	2	-	-	2	-	-	4
E-8	6	2	-	-	2	-	-	4
E-10	6	2	-	2	-	-	-	4
E-12	6	2	-	2	-	-	-	4
E-33	6	2	-	-	2	-	-	4
E-35	4	2	-	2	-	-	-	2
E-40	6	2	-	2	-	-	-	4
F-7	6	2	-	-	2	-	-	4
F-9	6	2	-	2	-	-	-	4
F-11	6	2	-	2	-	-	-	4
F-36	6	2	-	2	-	-	-	4
F-41	6	2	-	2	-	-	-	4
F-44	4	2	-	2	-	-	-	4
J-43	4	2	-	-	2	-	-	2
K-31	4	2	-	-	2	-	-	2

MATCHLINE EA-EB
SEE SHEET P.114

Lighting Plan - Locations D06-42
I-270 and East Main

DESIGN AGENCY



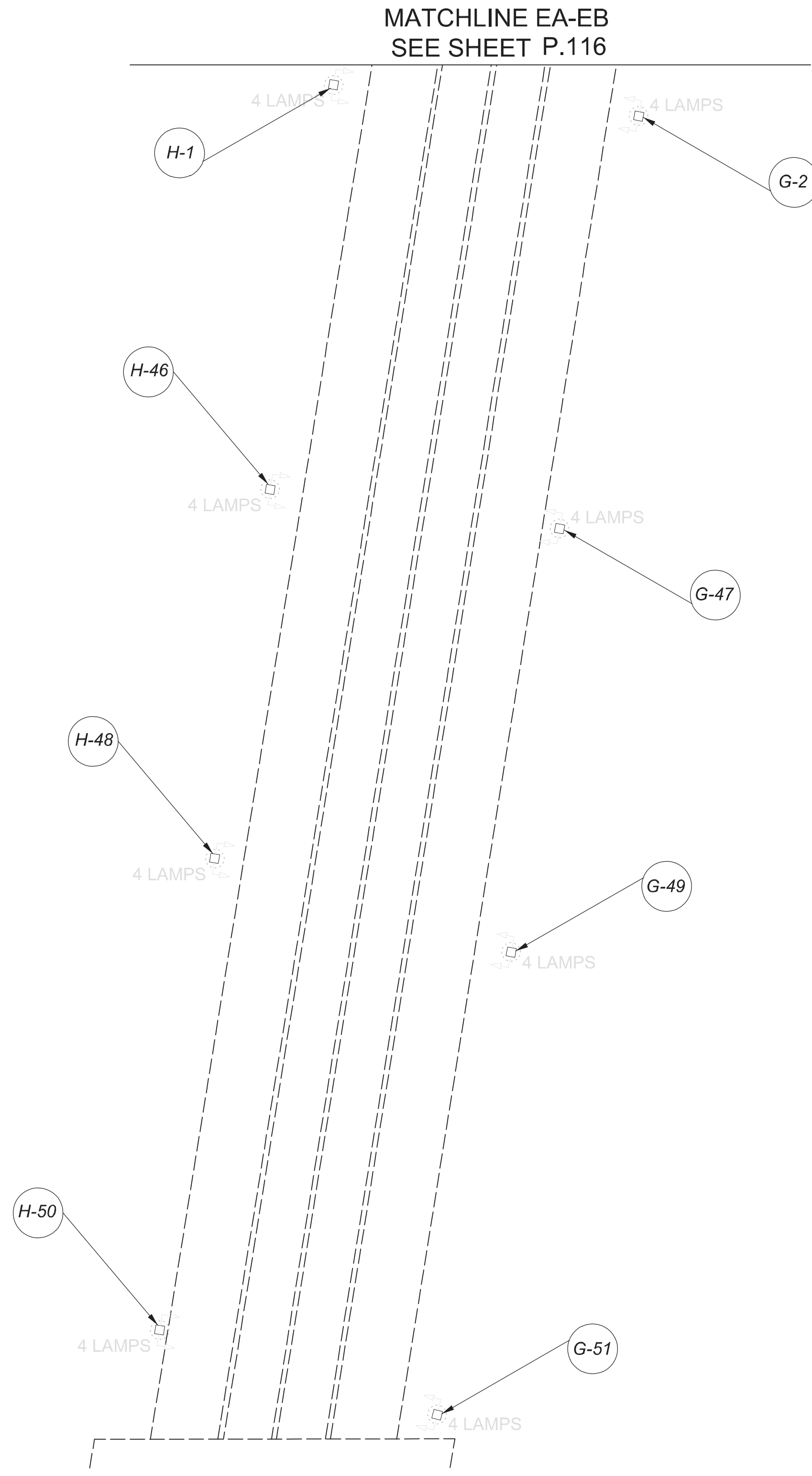
DESIGNER
DT

REVIEWER
ES 03/11/22

PROJECT ID
112676

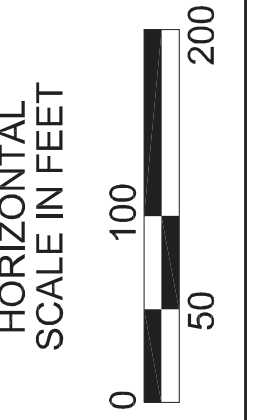
SUBSET	TOTAL
1	2

SHEET	TOTAL
P.113	197



LEGEND

- EXISTING SYMMETRICAL HIGH MAST TOWER
- EXISTING ASYMMETRICAL HIGH MAST TOWER
- EXISTING CABLE
- EXISTING CONDUIT
- EXISTING PULL BOX
- EXISTING CONTROL CENTER



POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRES REMOVED AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 70-80k LUMENS, 480V	"PROPOSED LUMINAIRE LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 70-80k LUMENS, 480V"	"PROPOSED LUMINAIRE LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 42-47k LUMENS, 480V"	"PROPOSED LUMINAIRE LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 28-32k LUMENS, 480V"	LUMINAIRE MISC : LUMINAIRE GLASS, REFLECTOR, AND SOCKET REMOVED"
F-8	4	3	-	-	3	-	-	1
F-7	4	3	-	-	3	-	-	1
G-2	4	2	-	-	2	-	-	2
G-4	4	2	-	-	2	-	-	2
G-5	4	2	-	-	2	-	-	2
G-47	4	2	-	-	2	-	-	2
G-49	4	2	-	-	2	-	-	2
G-51	4	2	-	-	2	-	-	2
H-1	4	2	-	-	2	-	-	2
H-3	4	2	-	-	2	-	-	2
H-6	4	2	-	-	2	-	-	2
H-46	4	2	-	-	2	-	-	2
H-48	4	2	-	-	2	-	-	2
H-50	4	2	-	-	2	-	-	2

**Lighting Plan - Locations D06-42a
I-170 and Main to Livingston**

DESIGN AGENCY



DESIGNER
DT

REVIEWER
ES 03/11/22







PROJECT ID
112676

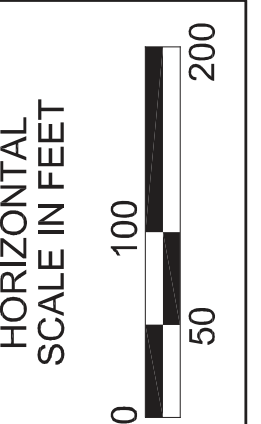
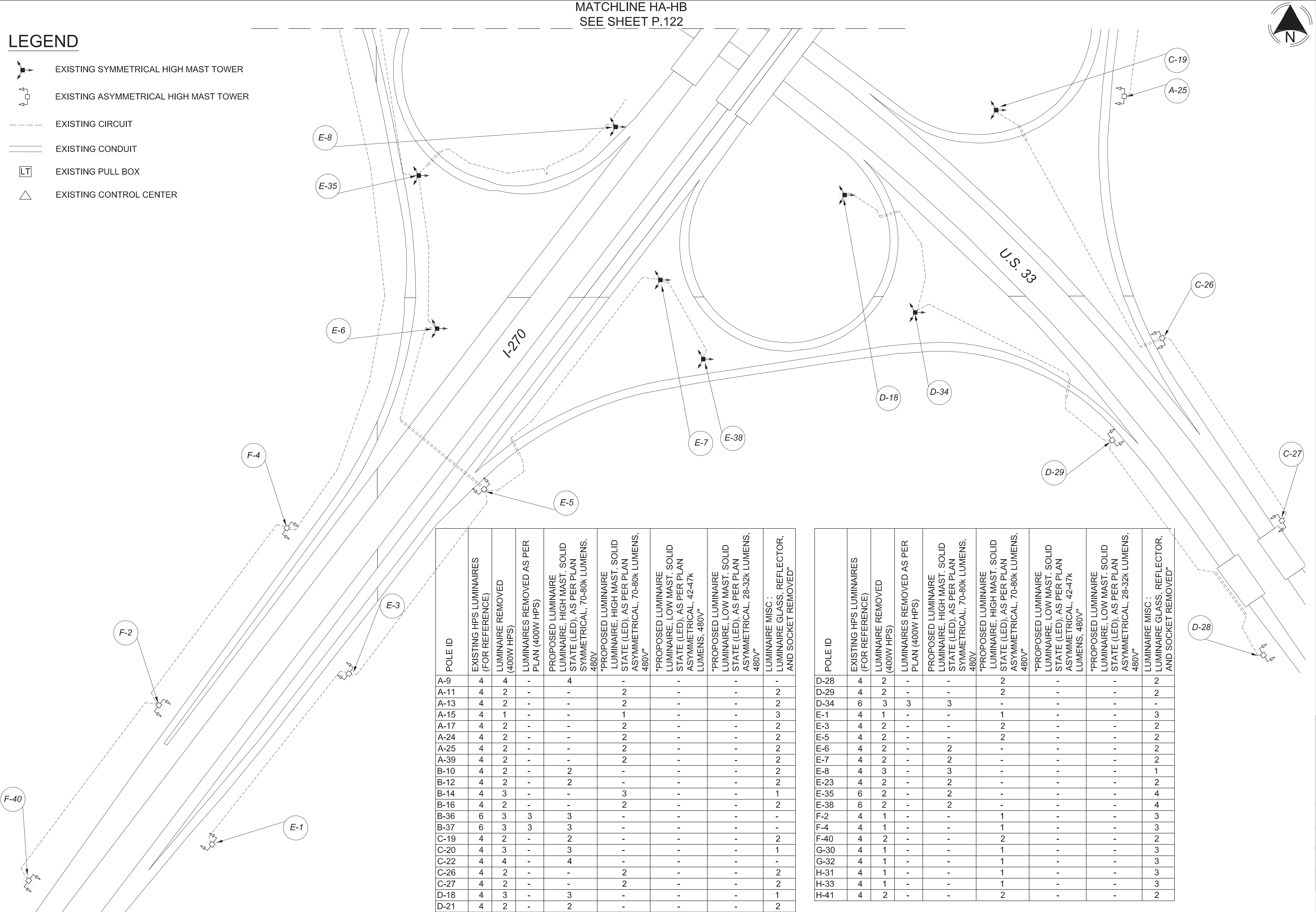
SUBSET	TOTAL
1	2

SHEET	TOTAL
P.115	197

MATCHLINE HA-HB
SEE SHEET P.122

LEGEND

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING PULL BOX
-  EXISTING CONTROL CENTER



POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 70-80k LUMENS, 480V	"PROPOSED LUMINAIRE LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 70-80k LUMENS, 480V"	"PROPOSED LUMINAIRE LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 42-47k LUMENS, 480V"	"PROPOSED LUMINAIRE LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 28-32k LUMENS, 480V"	LUMINAIRE MISC : LUMINAIRE GLASS, REFLECTOR, AND SOCKET REMOVED"
A-9	4	4	-	4	-	-	-	-
A-11	4	2	-	-	2	-	-	2
A-13	4	2	-	-	2	-	-	2
A-15	4	1	-	-	1	-	-	3
A-17	4	2	-	-	2	-	-	2
A-24	4	2	-	-	2	-	-	2
A-25	4	2	-	-	2	-	-	2
A-39	4	2	-	-	2	-	-	2
B-10	4	2	-	2	-	-	-	2
B-12	4	2	-	2	-	-	-	2
B-14	4	3	-	-	3	-	-	1
B-16	4	2	-	-	2	-	-	2
B-36	6	3	3	3	-	-	-	-
B-37	6	3	3	3	-	-	-	-
C-19	4	2	-	2	-	-	-	2
C-20	4	3	-	3	-	-	-	1
C-22	4	4	-	4	-	-	-	-
C-26	4	2	-	-	2	-	-	2
C-27	4	2	-	-	2	-	-	2
D-18	4	3	-	3	-	-	-	1
D-21	4	2	-	2	-	-	-	2

POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 70-80k LUMENS, 480V	"PROPOSED LUMINAIRE LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 70-80k LUMENS, 480V"	"PROPOSED LUMINAIRE LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 42-47k LUMENS, 480V"	"PROPOSED LUMINAIRE LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 28-32k LUMENS, 480V"	LUMINAIRE MISC : LUMINAIRE GLASS, REFLECTOR, AND SOCKET REMOVED"
D-28	4	2	-	-	2	-	-	2
D-29	4	2	-	-	2	-	-	2
D-34	6	3	3	3	-	-	-	-
E-1	4	1	-	-	1	-	-	3
E-3	4	2	-	-	2	-	-	2
E-5	4	2	-	-	2	-	-	2
E-6	4	2	-	2	-	-	-	2
E-7	4	2	-	2	-	-	-	2
E-8	4	3	-	3	-	-	-	1
E-23	4	2	-	2	-	-	-	2
E-35	6	2	-	2	-	-	-	4
E-38	6	2	-	2	-	-	-	4
F-2	4	1	-	-	1	-	-	3
F-4	4	1	-	-	1	-	-	3
F-40	4	2	-	-	2	-	-	2
G-30	4	1	-	-	1	-	-	3
G-32	4	1	-	-	1	-	-	3
H-31	4	1	-	-	1	-	-	3
H-33	4	1	-	-	1	-	-	3
H-41	4	2	-	-	2	-	-	2

Lighting Plan - Locations D06-44
I-270 and East Broad

DESIGN AGENCY



DESIGNER
DT

REVIEWER
ES 03/11/22

PROJECT ID
112676

SUBSET	TOTAL
2	2

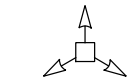
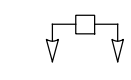
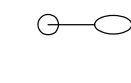
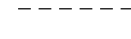

SHEET	TOTAL
P.121	197

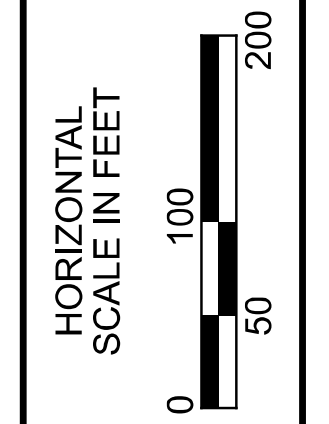
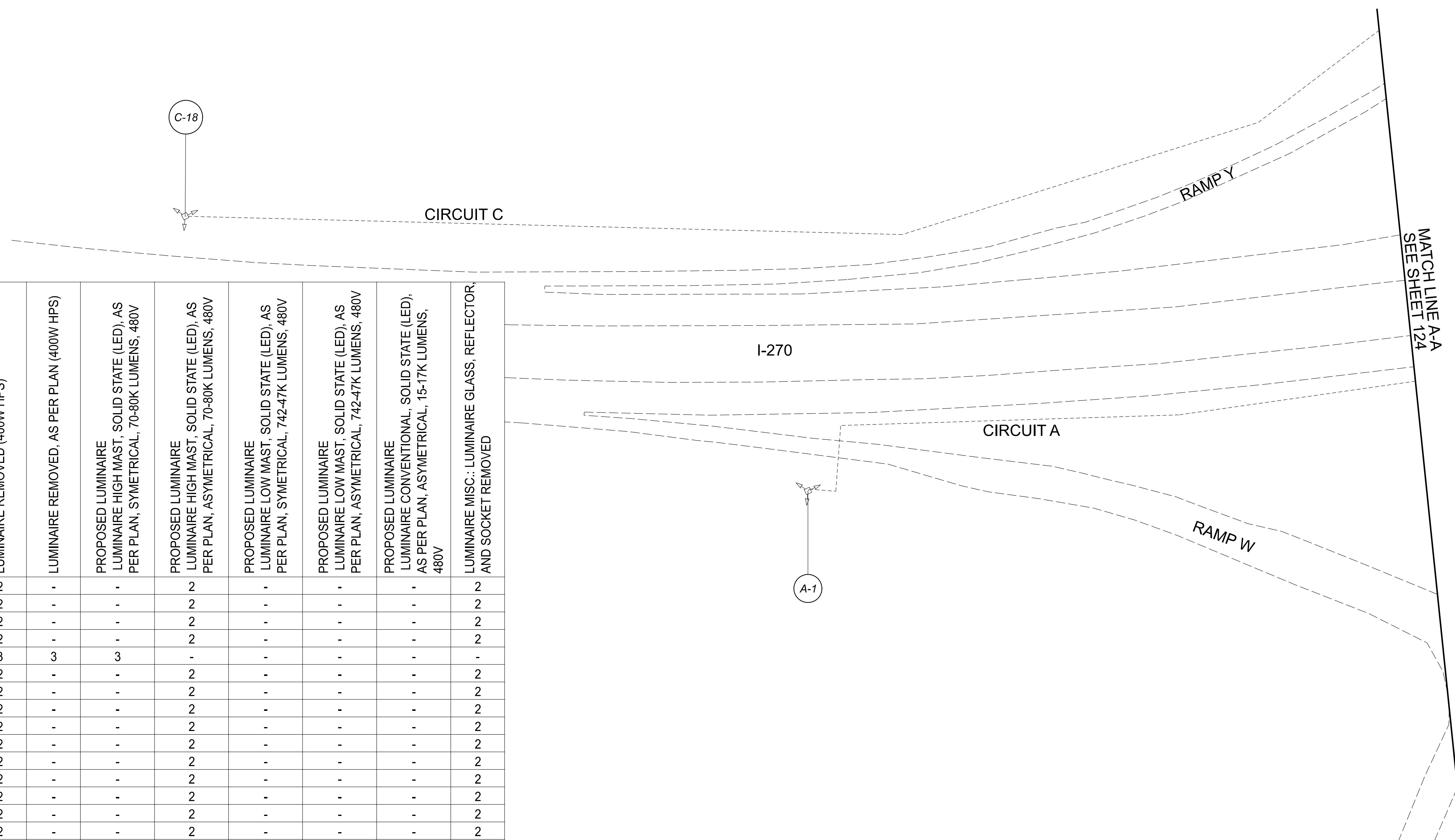
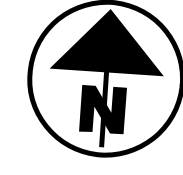
D06 Lighting Upgrade FY2021

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POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE LUMINAIRE HIGH MAST, SOLID STATE (LED), AS PER PLAN, SYMETRICAL, 70-80K LUMENS, 480V	PROPOSED LUMINAIRE LUMINAIRE HIGH MAST, SOLID STATE (LED), AS PER PLAN, ASYMETRICAL, 70-80K LUMENS, 480V	PROPOSED LUMINAIRE LUMINAIRE LOW MAST, SOLID STATE (LED), AS PER PLAN, SYMETRICAL, 742-47K LUMENS, 480V	PROPOSED LUMINAIRE LUMINAIRE LOW MAST, SOLID STATE (LED), AS PER PLAN, ASYMETRICAL, 742-47K LUMENS, 480V	PROPOSED LUMINAIRE LUMINAIRE CONVENTIONAL, SOLID STATE (LED), AS PER PLAN, ASYMETRICAL, 15-17K LUMENS, 480V	LUMINAIRE MISC.: LUMINAIRE GLASS, REFLECTOR, AND SOCKET REMOVED
A-1	4	2	-	-	2	-	-	-	2
A-9	4	2	-	-	2	-	-	-	2
A-11	4	2	-	-	2	-	-	-	2
B-6	4	2	-	-	2	-	-	-	2
B-8	6	3	3	3	-	-	-	-	-
B-10	4	2	-	-	2	-	-	-	2
B-12	4	2	-	-	2	-	-	-	2
B-17	4	2	-	-	2	-	-	-	2
C-4	4	2	-	-	2	-	-	-	2
C-13	4	2	-	-	2	-	-	-	2
C-14	4	2	-	-	2	-	-	-	2
C-15	4	2	-	-	2	-	-	-	2
C-16	4	2	-	-	2	-	-	-	2
C-18	4	2	-	-	2	-	-	-	2
C-X1	4	2	-	-	2	-	-	-	2
C-X2	4	2	-	-	2	-	-	-	2

LEGEND

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING CABLE
-  EXISTING CONTROL CENTER



Lighting Plan - Location D06-45
 I-270 and Alum Creek Dr.

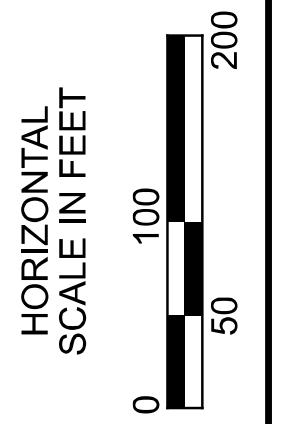
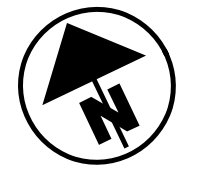
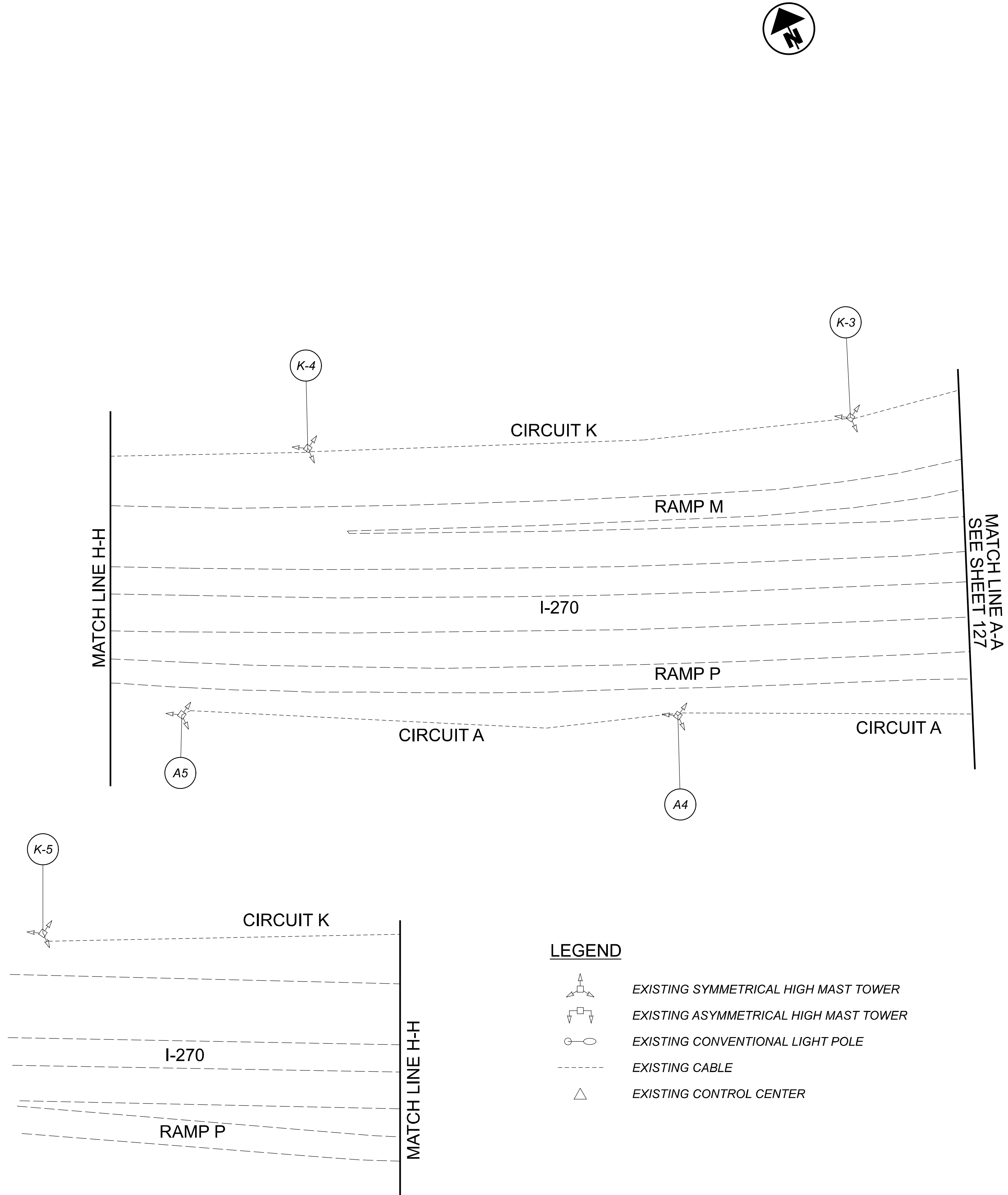
DESIGN AGENCY

 2800 Corporate Exchange Drive, Suite 250
 Columbus, OH 43231

DESIGNER
 DA
 REVIEWER
 RJM 03/11/22
 PROJECT ID
 112676
 SHEET TOTAL
 123 197

D06 Lighting Upgrade FY2021

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POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE LUMINAIRE HIGH MAST, SOLID STATE (LED), AS PER PLAN, SYMETRICAL, 70-80K LUMENS, 480V	PROPOSED LUMINAIRE LUMINAIRE HIGH MAST, SOLID STATE (LED), AS PER PLAN, ASYMETRICAL, 70-80K LUMENS, 480V	PROPOSED LUMINAIRE LUMINAIRE LOW MAST, SOLID STATE (LED), AS PER PLAN, SYMETRICAL, 742-47K LUMENS, 480V	PROPOSED LUMINAIRE LUMINAIRE LOW MAST, SOLID STATE (LED), AS PER PLAN, ASYMETRICAL, 742-47K LUMENS, 480V	PROPOSED LUMINAIRE LUMINAIRE CONVENTIONAL, SOLID STATE (LED), AS PER PLAN, ASYMETRICAL, 15-17K LUMENS, 480V	LUMINAIRE MISC.: LUMINAIRE GLASS, REFLECTOR, AND SOCKET REMOVED
BA1	6	3	3	3	-	-	-	-	-
A2	4	4	-	4	-	-	-	-	-
A3	4	2	-	-	2	-	-	-	2
A4	4	2	-	-	2	-	-	-	2
A5	4	2	-	-	2	-	-	-	2
A6	4	4	-	4	-	-	-	-	-
B1	4	4	-	4	-	-	-	-	-
B2	4	4	-	4	-	-	-	-	-
B3	4	4	-	4	-	-	-	-	-
B4	4	2	-	-	2	-	-	-	2
B5	4	2	-	-	2	-	-	-	2
B6	4	2	-	-	2	-	-	-	2
C1	4	2	-	-	2	-	-	-	2
C2	4	4	-	4	-	-	-	-	-
C3	4	2	-	-	2	-	-	-	2
E1	4	2	-	-	2	-	-	-	2
E2	4	2	-	-	2	-	-	-	2
E3	4	2	-	-	2	-	-	-	2
F-1	4	4	-	4	-	-	-	-	-
F-2	4	2	-	-	2	-	-	-	2
H-1	4	4	-	4	-	-	-	-	-
H-2	8	2	4	-	2	-	-	-	2
H-3	6	2	-	-	2	-	-	-	4
K-1	6	3	3	3	-	-	-	-	-
K-2	4	2	-	-	2	-	-	-	2
K-3	4	2	-	-	2	-	-	-	2
K-4	4	2	-	-	2	-	-	-	2
K-5	4	2	-	-	2	-	-	-	2
K-6	4	2	-	-	2	-	-	-	2
K-7	4	2	-	-	2	-	-	-	2
M-1	4	2	-	-	2	-	-	-	2
M-2	4	2	-	-	2	-	-	-	2
M-3	4	2	-	-	2	-	-	-	2
M-4	4	2	-	-	2	-	-	-	2
M-5	4	2	-	-	2	-	-	-	2



Lighting Plan - Location D06-46
I-270 and US-23

DESIGNER		DA
REVIEWER		RJM 03/11/22
PROJECT ID		112676
SHEET	TOTAL	126 197

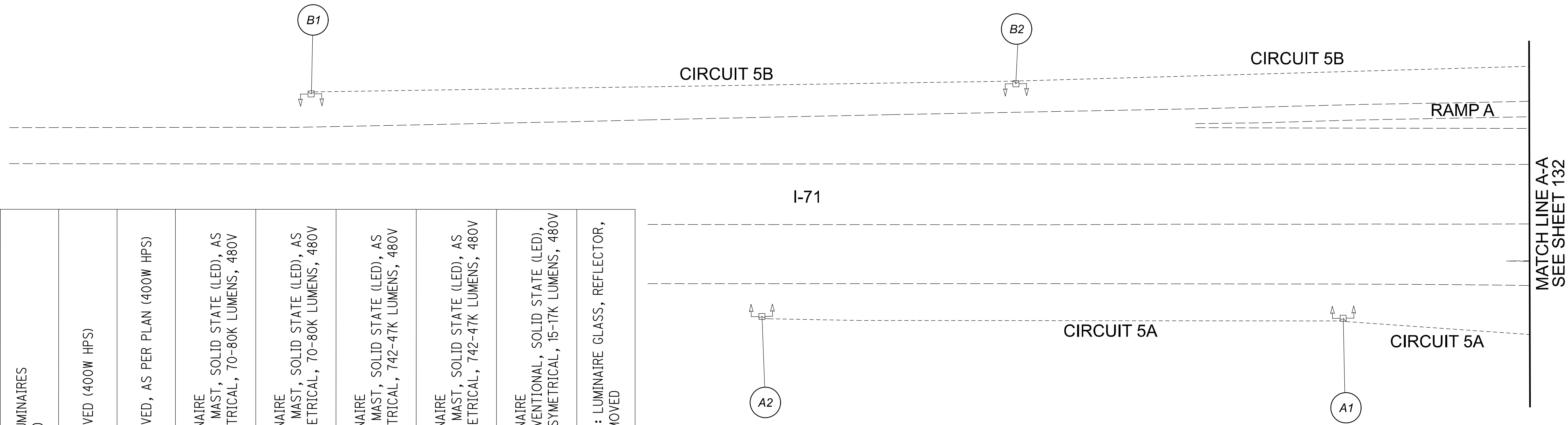
DESIGN AGENCY

 2800 Corporate Exchange Drive, Suite 250
 Columbus, OH 43231






D06 Lighting Upgrade FY2021

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 pw: \ohiodot-pw.bentley.com\ohiodot-pw-02\Documents\0 Active Projects\Statewide\112676\402-Engineering-JMT\Lighting\Sheets\112676_LP009.dgn

POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE LUMINAIRE HIGH MAST, SOLID STATE (LED), AS PER PLAN, SYMMETRICAL, 70-80K LUMENS, 480V	PROPOSED LUMINAIRE LUMINAIRE HIGH MAST, SOLID STATE (LED), AS PER PLAN, ASYMMETRICAL, 70-80K LUMENS, 480V	PROPOSED LUMINAIRE LUMINAIRE LOW MAST, SOLID STATE (LED), AS PER PLAN, SYMMETRICAL, 742-47K LUMENS, 480V	PROPOSED LUMINAIRE LUMINAIRE LOW MAST, SOLID STATE (LED), AS PER PLAN, ASYMMETRICAL, 742-47K LUMENS, 480V	PROPOSED LUMINAIRE LUMINAIRE CONVENTIONAL, SOLID STATE (LED), AS PER PLAN, ASYMMETRICAL, 15-17K LUMENS, 480V	LUMINAIRE MISC.: LUMINAIRE GLASS, REFLECTOR, AND SOCKET REMOVED
A1	4	2	-	-	2	-	-	-	2
A2	4	2	-	-	2	-	-	-	2
A3	4	2	-	-	2	-	-	-	2
A4	6	3	3	3	-	-	-	-	-
A5	6	3	3	3	-	-	-	-	-
A6	4	2	-	-	2	-	-	-	2
A7	4	2	-	-	2	-	-	-	2
A8	4	2	-	-	2	-	-	-	2
B1	4	2	-	-	2	-	-	-	2
B2	4	2	-	-	2	-	-	-	2
B3	4	2	-	-	2	-	-	-	2
B4	6	3	3	3	-	-	-	-	-
B5	6	3	3	3	-	-	-	-	-
B6	4	2	-	-	2	-	-	-	2
B7	4	2	-	-	2	-	-	-	2
B8	4	2	-	-	2	-	-	-	2



LEGEND

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING CABLE
-  EXISTING CONTROL CENTER

Lighting Plan - Location D06-47
I-71 and US-36



DESIGN AGENCY

 2800 Corporate Exchange Drive, Suite 250
 Columbus, OH 43231

DESIGNER
DA

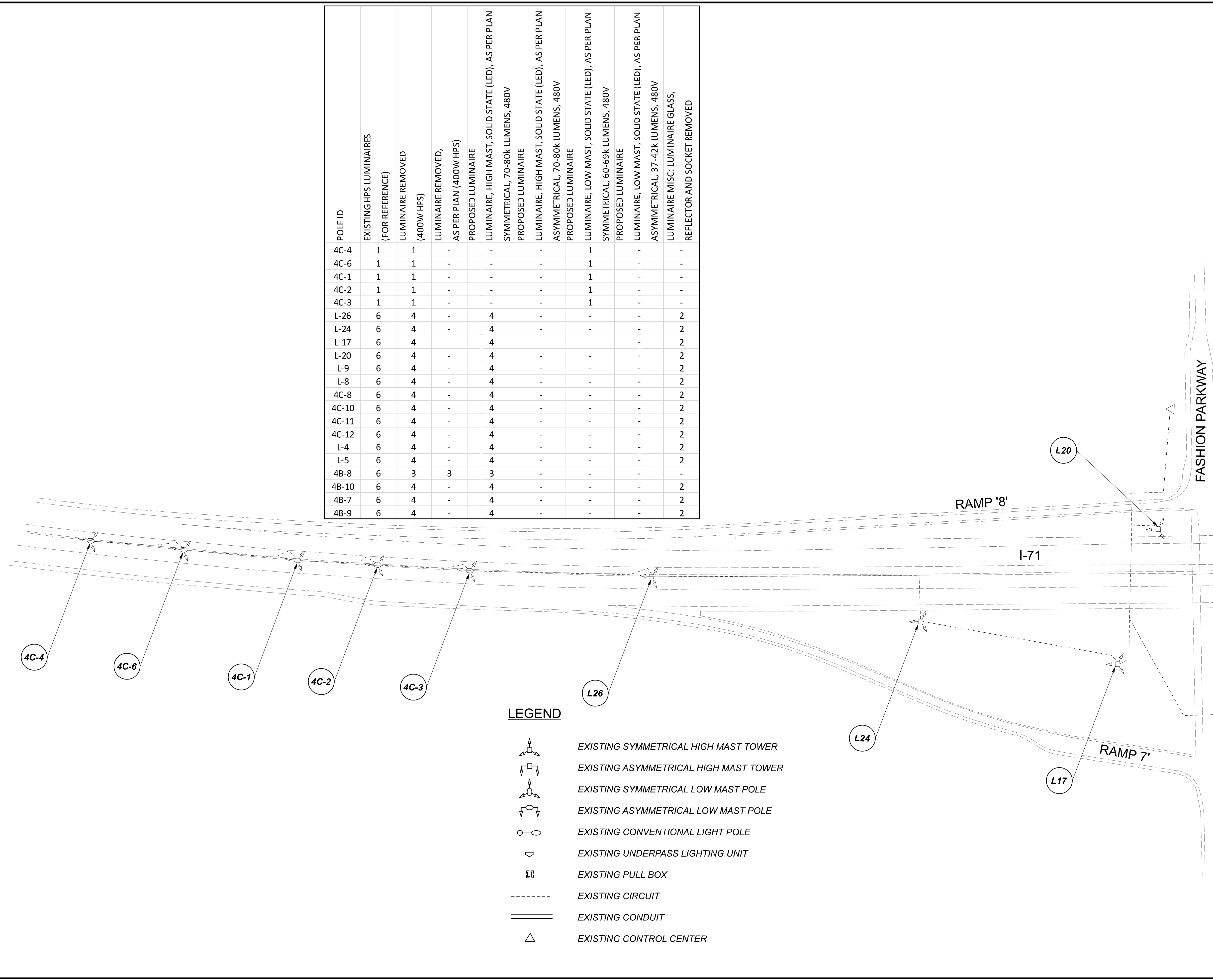
REVIEWER
RJM 03/11/22

PROJECT ID
112676

SHEET TOTAL
131 197

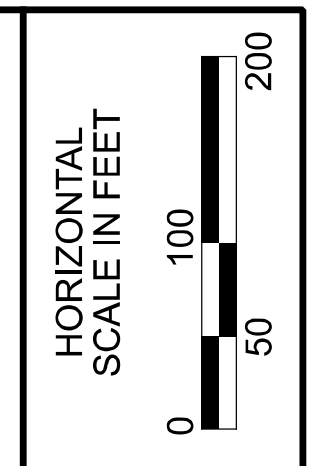
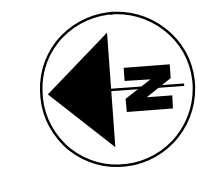
D06-Lighting Upgrade FY2021

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POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 60-69k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 37-42k LUMENS, 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
4C-4	1	1	-	-	-	-	-	1	-	-	-	-
4C-6	1	1	-	-	-	-	-	1	-	-	-	-
4C-1	1	1	-	-	-	-	-	1	-	-	-	-
4C-2	1	1	-	-	-	-	-	1	-	-	-	-
4C-3	1	1	-	-	-	-	-	1	-	-	-	-
L-26	6	4	-	4	-	-	-	-	-	-	-	2
L-24	6	4	-	4	-	-	-	-	-	-	-	2
L-17	6	4	-	4	-	-	-	-	-	-	-	2
L-20	6	4	-	4	-	-	-	-	-	-	-	2
L-9	6	4	-	4	-	-	-	-	-	-	-	2
L-8	6	4	-	4	-	-	-	-	-	-	-	2
4C-8	6	4	-	4	-	-	-	-	-	-	-	2
4C-10	6	4	-	4	-	-	-	-	-	-	-	2
4C-11	6	4	-	4	-	-	-	-	-	-	-	2
4C-12	6	4	-	4	-	-	-	-	-	-	-	2
L-4	6	4	-	4	-	-	-	-	-	-	-	2
L-5	6	4	-	4	-	-	-	-	-	-	-	2
4B-8	6	3	3	3	-	-	-	-	-	-	-	-
4B-10	6	4	-	4	-	-	-	-	-	-	-	2
4B-7	6	4	-	4	-	-	-	-	-	-	-	2
4B-9	6	4	-	4	-	-	-	-	-	-	-	2

- LEGEND**
- EXISTING SYMMETRICAL HIGH MAST TOWER
 - EXISTING ASYMMETRICAL HIGH MAST TOWER
 - EXISTING SYMMETRICAL LOW MAST POLE
 - EXISTING ASYMMETRICAL LOW MAST POLE
 - EXISTING CONVENTIONAL LIGHT POLE
 - EXISTING UNDERPASS LIGHTING UNIT
 - EXISTING PULL BOX
 - EXISTING CIRCUIT
 - EXISTING CONDUIT
 - EXISTING CONTROL CENTER



Lighting Plan - Location 48
I-70 and Gemini Place

DESIGN AGENCY	
SINGH SINGH + ASSOCIATES, INC. CONSULTING ENGINEERS	
DESIGNER	
VN	
REVIEWER	
SG 03/11/22	
PROJECT ID	
112676	
SUBSET	TOTAL
1	3
SHEET	
P.134	
TOTAL	
197	

MATCH LINE J-J
SEE SHEET P.135

D06-Lighting Upgrade FY2021


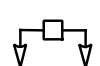
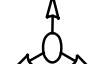
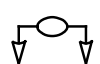
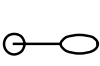



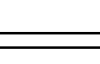

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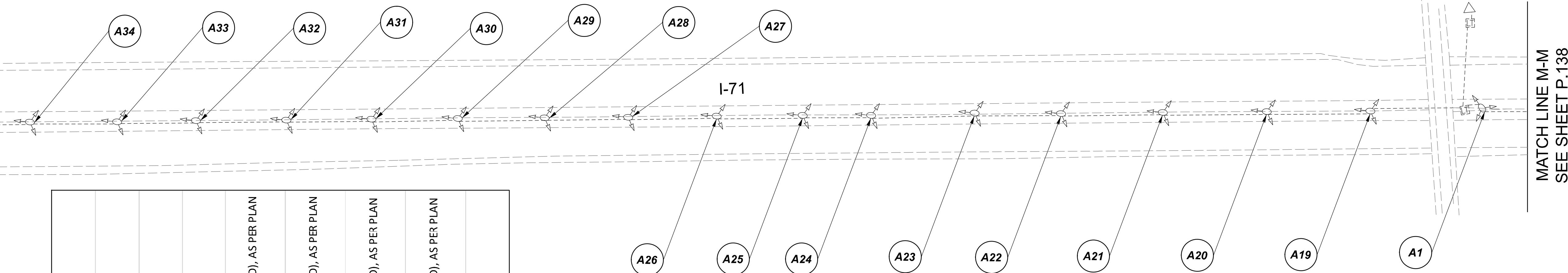
MATCH LINE L-L
SEE SHEET P.136

POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 60-69k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 37-42k LUMENS, 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
4B-6	6	4	-	4	-	-	-	-	-	-	2	-
4B-5	4	2	-	2	-	-	-	-	-	-	2	-
4B-4	4	2	-	2	-	-	-	-	-	-	2	-
4B-3	4	2	-	2	-	-	-	-	-	-	2	-
4B-2	4	2	-	2	-	-	-	-	-	-	2	-
A-1	1	1	-	-	-	-	1	-	-	-	-	-
A-2	1	1	-	-	-	-	1	-	-	-	-	-
A-3	1	1	-	-	-	-	1	-	-	-	-	-
A-4	1	1	-	-	-	-	1	-	-	-	-	-
A-5	1	1	-	-	-	-	1	-	-	-	-	-
A-6	1	1	-	-	-	-	1	-	-	-	-	-
A-7	1	1	-	-	-	-	1	-	-	-	-	-
A-8	1	1	-	-	-	-	1	-	-	-	-	-
A-9	1	1	-	-	-	-	1	-	-	-	-	-
A-10	1	1	-	-	-	-	1	-	-	-	-	-

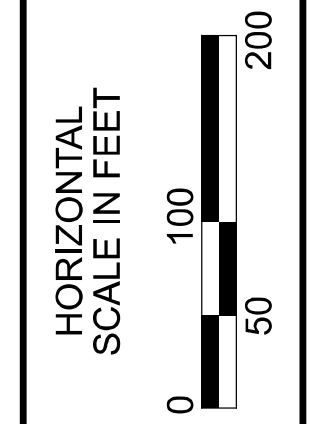
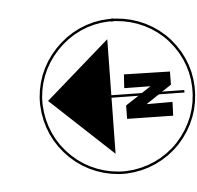
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A-12	1	1	-	-	-	1	-	-
A-13	1	1	-	-	-	1	-	-
A-14	1	1	-	-	-	1	-	-
A-15	1	1	-	-	-	1	-	-
A-16	1	1	-	-	-	1	-	-
A-17	1	1	-	-	-	1	-	-
A-18	1	1	-	-	-	1	-	-
A-19	1	1	-	-	-	1	-	-
A-20	1	1	-	-	-	1	-	-
A-21	1	1	-	-	-	1	-	-
A-22	1	1	-	-	-	1	-	-
A-23	1	1	-	-	-	1	-	-
A-24	1	1	-	-	-	1	-	-
A-25	1	1	-	-	-	1	-	-
A-26	1	1	-	-	-	1	-	-
A-27	1	1	-	-	-	1	-	-
A-28	1	1	-	-	-	1	-	-
A-29	1	1	-	-	-	1	-	-
A-30	1	1	-	-	-	1	-	-
A-31	1	1	-	-	-	1	-	-
A-32	1	1	-	-	-	1	-	-
A-33	1	1	-	-	-	1	-	-
A-34	1	1	-	-	-	1	-	-
A-35	1	1	-	-	-	1	-	-
A-36	1	1	-	-	-	1	-	-
A-37	1	1	-	-	-	1	-	-
A-38	1	1	-	-	-	1	-	-

LEGEND

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER




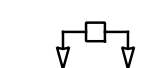

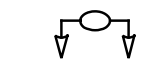
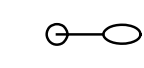
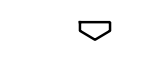

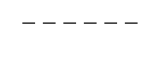
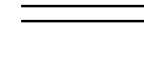
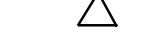
MATCH LINE M-M
SEE SHEET P.138



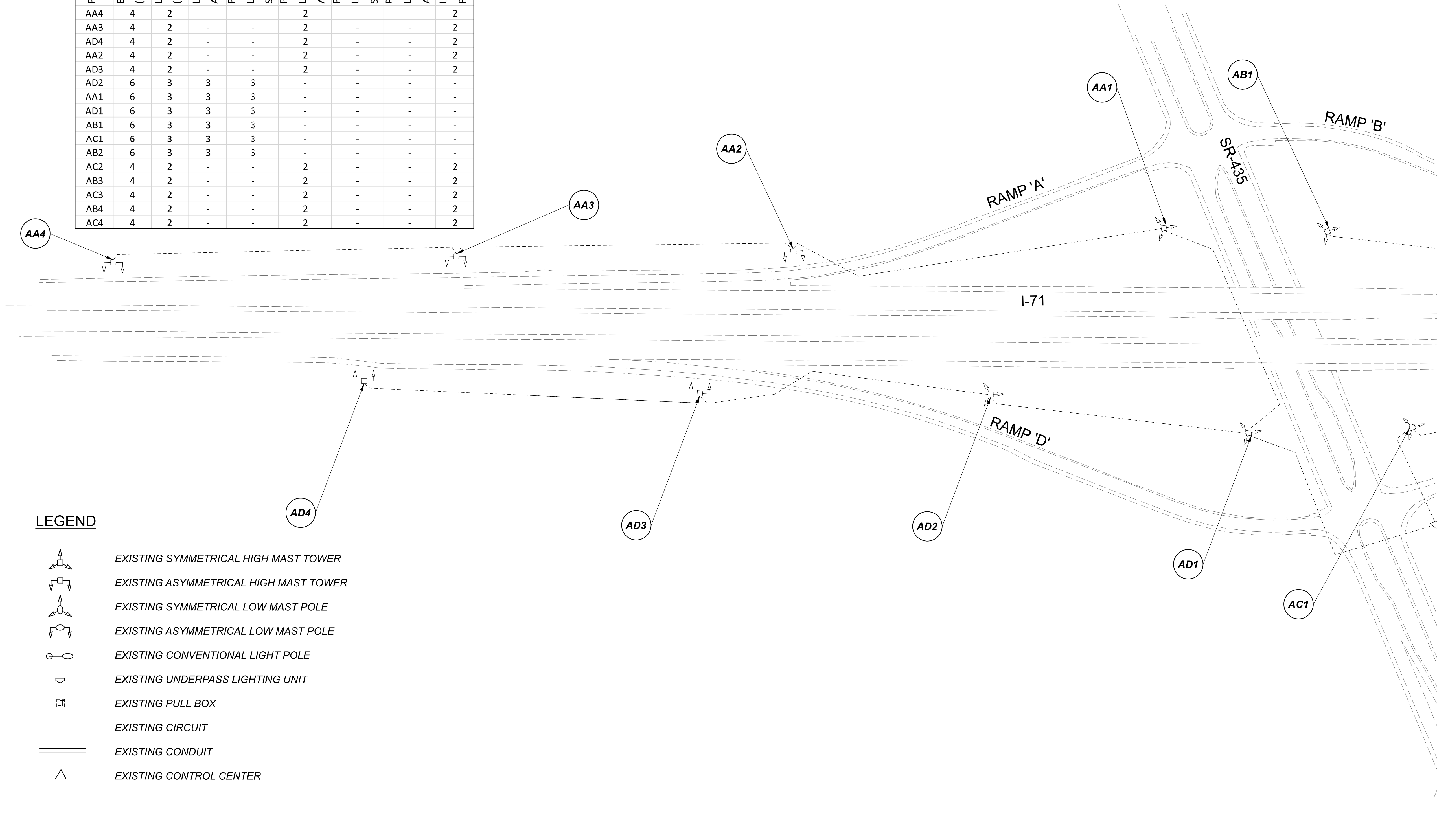
Lighting Plan - Location 48a
I-71 - I-270 to Polaris Parkway

DESIGN AGENCY	
SINGH SINGH & ASSOCIATES, INC. CONSULTING ENGINEERS	
DESIGNER	
VN	
REVIEWER	
SG 03/11/22	
PROJECT ID	
112676	
SUBSET	TOTAL
1	2
SHEET	
P.137	197

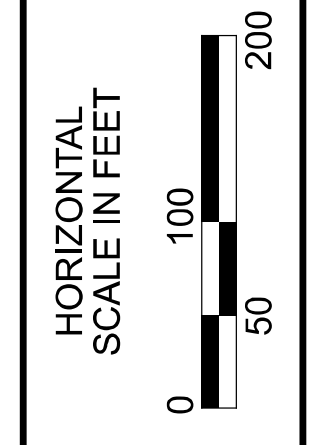
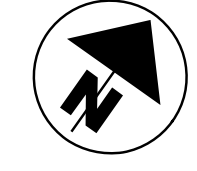
LEGEND

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER

POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 42-47k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 37-42k LUMENS, 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
AA4	4	2	-	-	-	-	-	-	-	-	-	2
AA3	4	2	-	-	-	-	-	-	-	-	-	2
AD4	4	2	-	-	-	-	-	-	-	-	-	2
AA2	4	2	-	-	-	-	-	-	-	-	-	2
AD3	4	2	-	-	-	-	-	-	-	-	-	2
AD2	6	3	3	3	3	-	-	-	-	-	-	-
AA1	6	3	3	3	3	-	-	-	-	-	-	-
AD1	6	3	3	3	3	-	-	-	-	-	-	-
AB1	6	3	3	3	3	-	-	-	-	-	-	-
AC1	6	3	3	3	3	-	-	-	-	-	-	-
AB2	6	3	3	3	3	-	-	-	-	-	-	-
AC2	4	2	-	-	-	-	-	-	-	-	-	2
AB3	4	2	-	-	-	-	-	-	-	-	-	2
AC3	4	2	-	-	-	-	-	-	-	-	-	2
AB4	4	2	-	-	-	-	-	-	-	-	-	2
AC4	4	2	-	-	-	-	-	-	-	-	-	2



MATCH LINE N-N
SEE SHEET P.140













Lighting Plan - Location 49
I-71 and S.R. 435

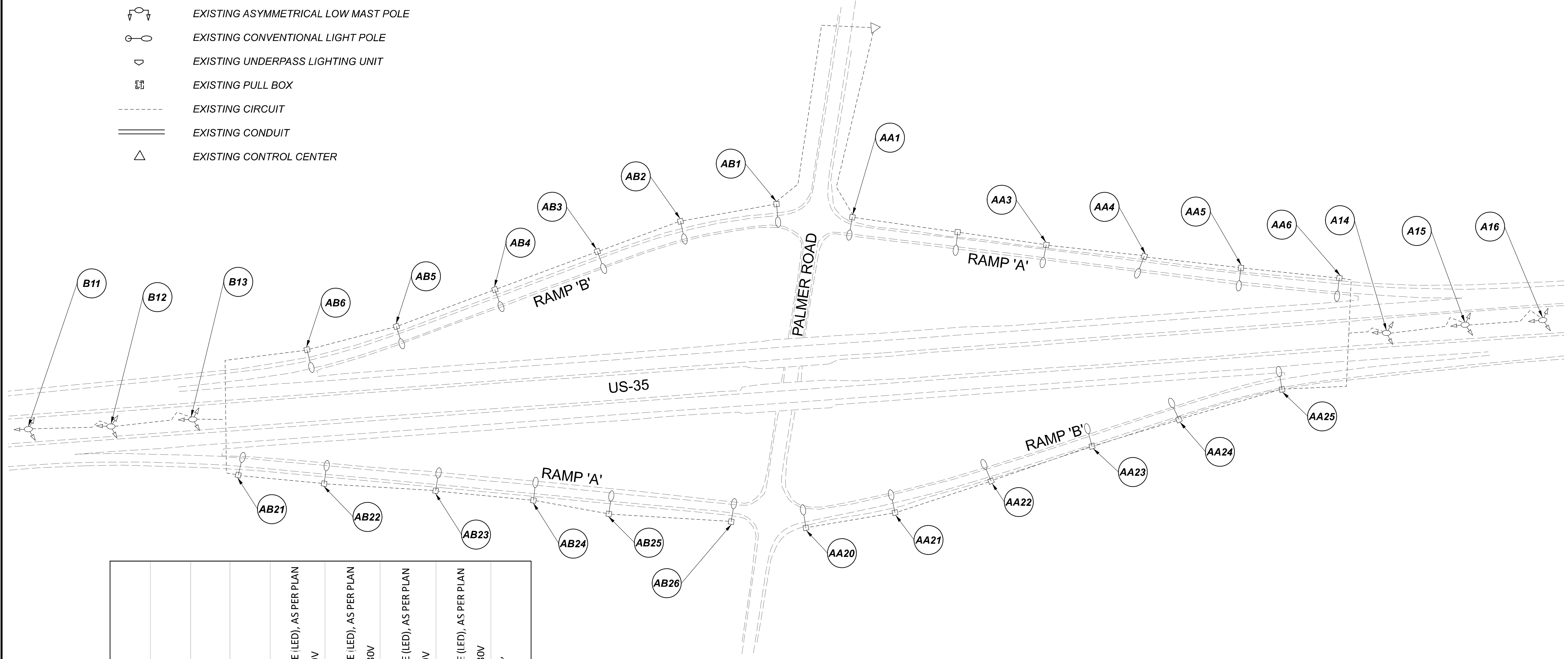
DESIGN AGENCY	
SINGH SINGH & ASSOCIATES, INC. CONSULTING ENGINEERS	
DESIGNER	
VN	
REVIEWER	
SG 03/11/22	
PROJECT ID	
112676	
SUBSET	TOTAL
1	2
SHEET	
P.139	
TOTAL	
197	

D06-Lighting Upgrade FY2021

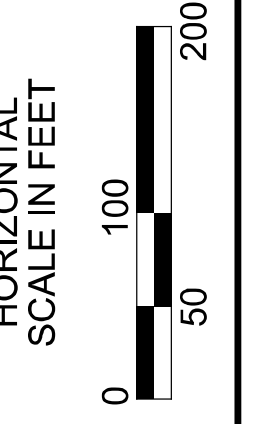
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LEGEND

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER



POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 42-47k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 37-42k LUMENS, 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
B11	1	1	-	-	-	-	-	-	1	-	-	-
B12	1	1	-	-	-	-	-	-	1	-	-	-
B13	1	1	-	-	-	-	-	-	1	-	-	-
A14	1	1	-	-	-	-	-	-	1	-	-	-
A15	1	1	-	-	-	-	-	-	1	-	-	-
A16	1	1	-	-	-	-	-	-	1	-	-	-



Lighting Plan - Location 50
 S.R. 35 and Palmer Road

DESIGN AGENCY



DESIGNER
VN

REVIEWER
SG 03/11/22

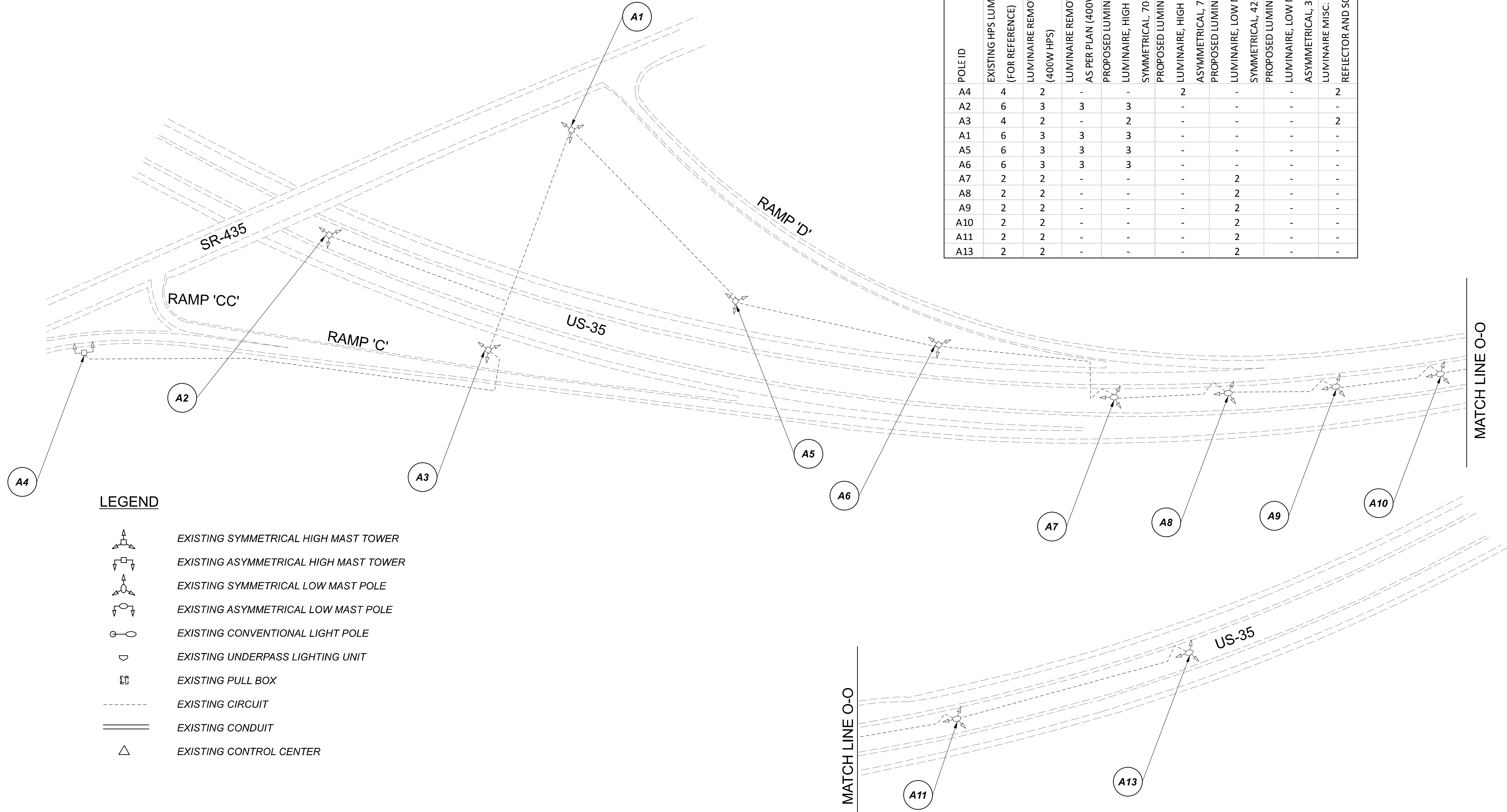
PROJECT ID
112676

SUBSET	TOTAL
1	1

SHEET	TOTAL
P. 141	197

D06-Lighting Upgrade FY2021

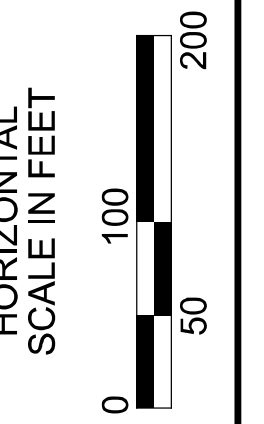
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LEGEND

- EXISTING SYMMETRICAL HIGH MAST TOWER
- EXISTING ASYMMETRICAL HIGH MAST TOWER
- EXISTING SYMMETRICAL LOW MAST POLE
- EXISTING ASYMMETRICAL LOW MAST POLE
- EXISTING CONVENTIONAL LIGHT POLE
- EXISTING UNDERPASS LIGHTING UNIT
- EXISTING PULL BOX
- EXISTING CIRCUIT
- EXISTING CONDUIT
- EXISTING CONTROL CENTER

POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 42-47k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 37-42k LUMENS, 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
A4	4	2	-	-	-	2	-	-	-	-	-	2
A2	6	3	3	3	-	-	-	-	-	-	-	-
A3	4	2	-	2	-	-	-	-	-	-	-	2
A1	6	3	3	3	-	-	-	-	-	-	-	-
A5	6	3	3	3	-	-	-	-	-	-	-	-
A6	6	3	3	3	-	-	-	-	-	-	-	-
A7	2	2	-	-	-	-	-	2	-	-	-	-
A8	2	2	-	-	-	-	-	2	-	-	-	-
A9	2	2	-	-	-	-	-	2	-	-	-	-
A10	2	2	-	-	-	-	-	2	-	-	-	-
A11	2	2	-	-	-	-	-	2	-	-	-	-
A13	2	2	-	-	-	-	-	2	-	-	-	-



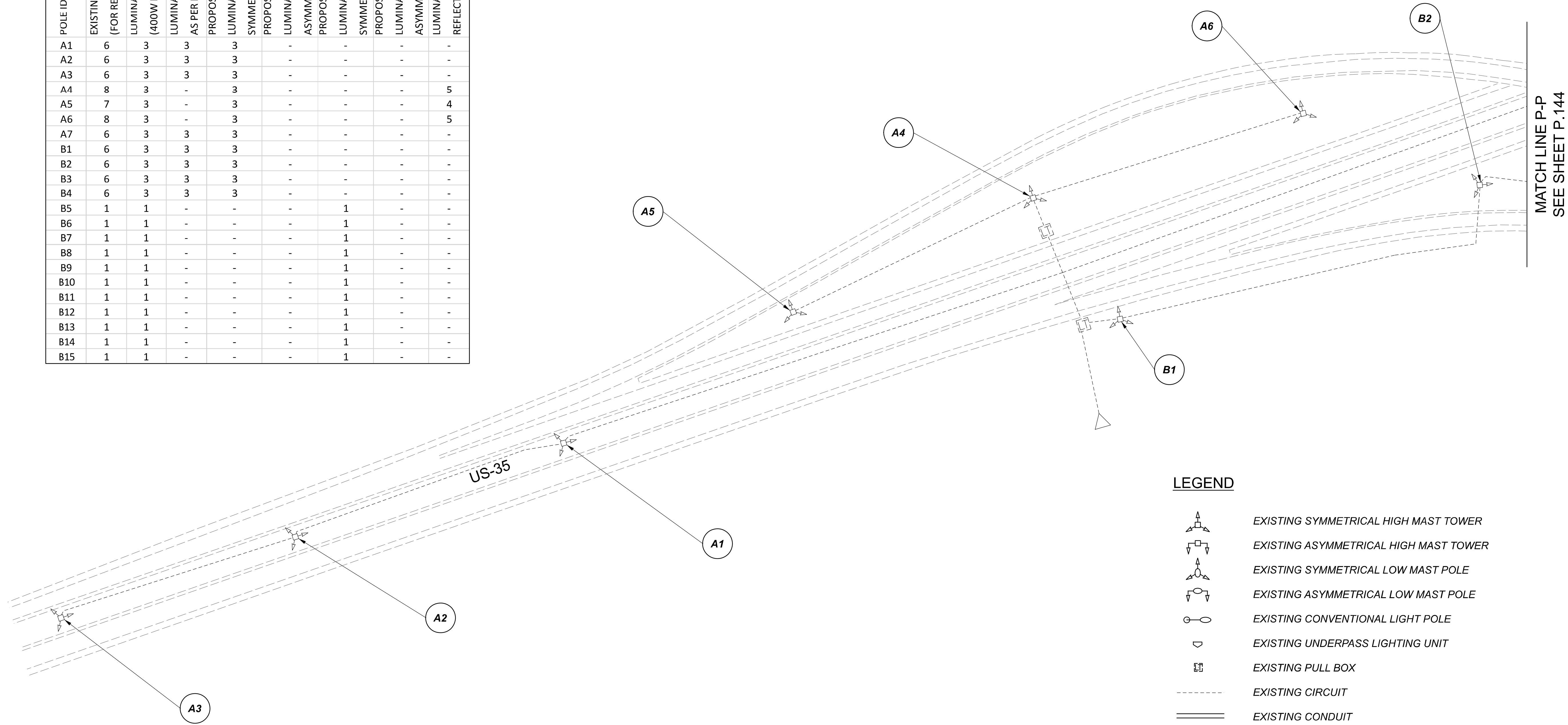
Lighting Plan - Location 51
 US-35 and S.R. 435 East

DESIGN AGENCY	
SINGH SINGH + ASSOCIATES, INC. CONSULTING ENGINEERS	
DESIGNER	
VN	
REVIEWER	
SG 03/11/22	
PROJECT ID	
112676	
SUBSET	TOTAL
1	1
SHEET	TOTAL
P.142	197











D06-Lighting Upgrade FY2021

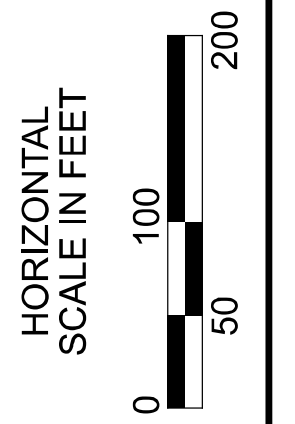
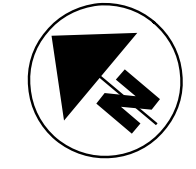
MODEL Sheet PAPER SIZE 34x22 (in.) DATE: 3/10/2022 TIME: 12:46:55 PM USER: vruinez
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POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 70-80k LUMENS, 48CV	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 42-47k LUMENS, 48CV	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 37-42k LUMENS, 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
A1	6	3	3	3								
A2	6	3	3	3								
A3	6	3	3	3								
A4	8	3	3	3								5
A5	7	3	-	3								4
A6	8	3	-	3								5
A7	6	3	3	3								
B1	6	3	3	3								
B2	6	3	3	3								
B3	6	3	3	3								
B4	6	3	3	3								
B5	1	1	-	-					1			
B6	1	1	-	-					1			
B7	1	1	-	-					1			
B8	1	1	-	-					1			
B9	1	1	-	-					1			
B10	1	1	-	-					1			
B11	1	1	-	-					1			
B12	1	1	-	-					1			
B13	1	1	-	-					1			
B14	1	1	-	-					1			
B15	1	1	-	-					1			



LEGEND

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER




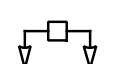

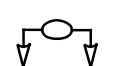
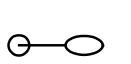



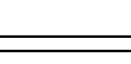

Lighting Plan - Location 53
 US-35 and S.R. 435 West

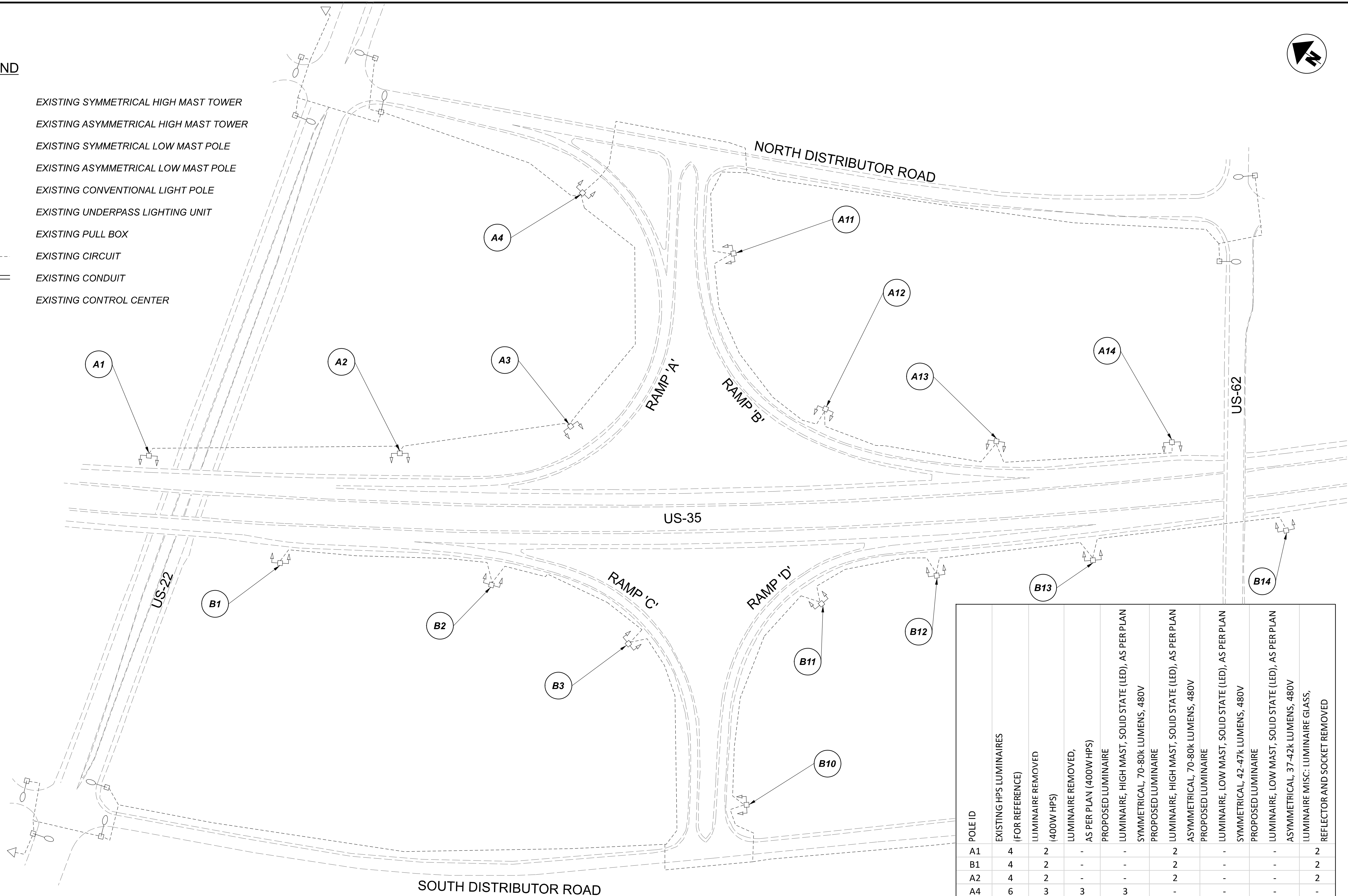
DESIGN AGENCY	
SINGH SINGH & ASSOCIATES, INC. CONSULTING ENGINEERS	
DESIGNER	
VN	
REVIEWER	
SG 03/11/22	
PROJECT ID	
112676	
SUBSET	TOTAL
1	2
SHEET	
P.143	197

D06-Lighting Upgrade FY2021

MODEL SHEET PAPER SIZE: 34x22 (in.) DATE: 3/10/2022 TIME: 13:58:49 PM USER: vmlunez
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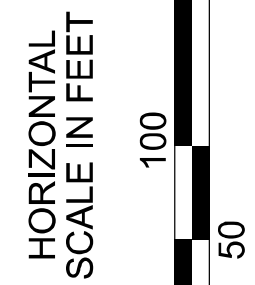
LEGEND

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER



B12	4	2	-	-	2	-	-	2
A14	4	2	-	-	2	-	-	2
B13	4	2	-	-	2	-	-	2
B14	4	2	-	-	2	-	-	2

POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 42-47k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 37-42k LUMENS, 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
A1	4	2	-	-	-	2	-	-	-	-	-	2
B1	4	2	-	-	-	2	-	-	-	-	-	2
A2	4	2	-	-	-	2	-	-	-	-	-	2
A4	6	3	3	3	-	-	-	-	-	-	-	-
A3	4	2	-	2	-	-	-	-	-	-	-	2
B2	4	2	-	-	-	2	-	-	-	-	-	2
B3	4	4	-	2	-	-	-	-	-	-	-	2
A11	6	3	3	3	-	-	-	-	-	-	-	-
A12	4	2	-	2	-	-	-	-	-	-	-	2
A13	4	2	-	-	-	2	-	-	-	-	-	2
B10	6	3	3	3	-	-	-	-	-	-	-	-
B11	4	2	-	2	-	-	-	-	-	-	-	2



Lighting Plan - Location 54
US-35 and US-62

DESIGN AGENCY



DESIGNER

VN

REVIEWER

SG 03/11/22

PROJECT ID

112676

SUBSET TOTAL

1 1

SHEET TOTAL

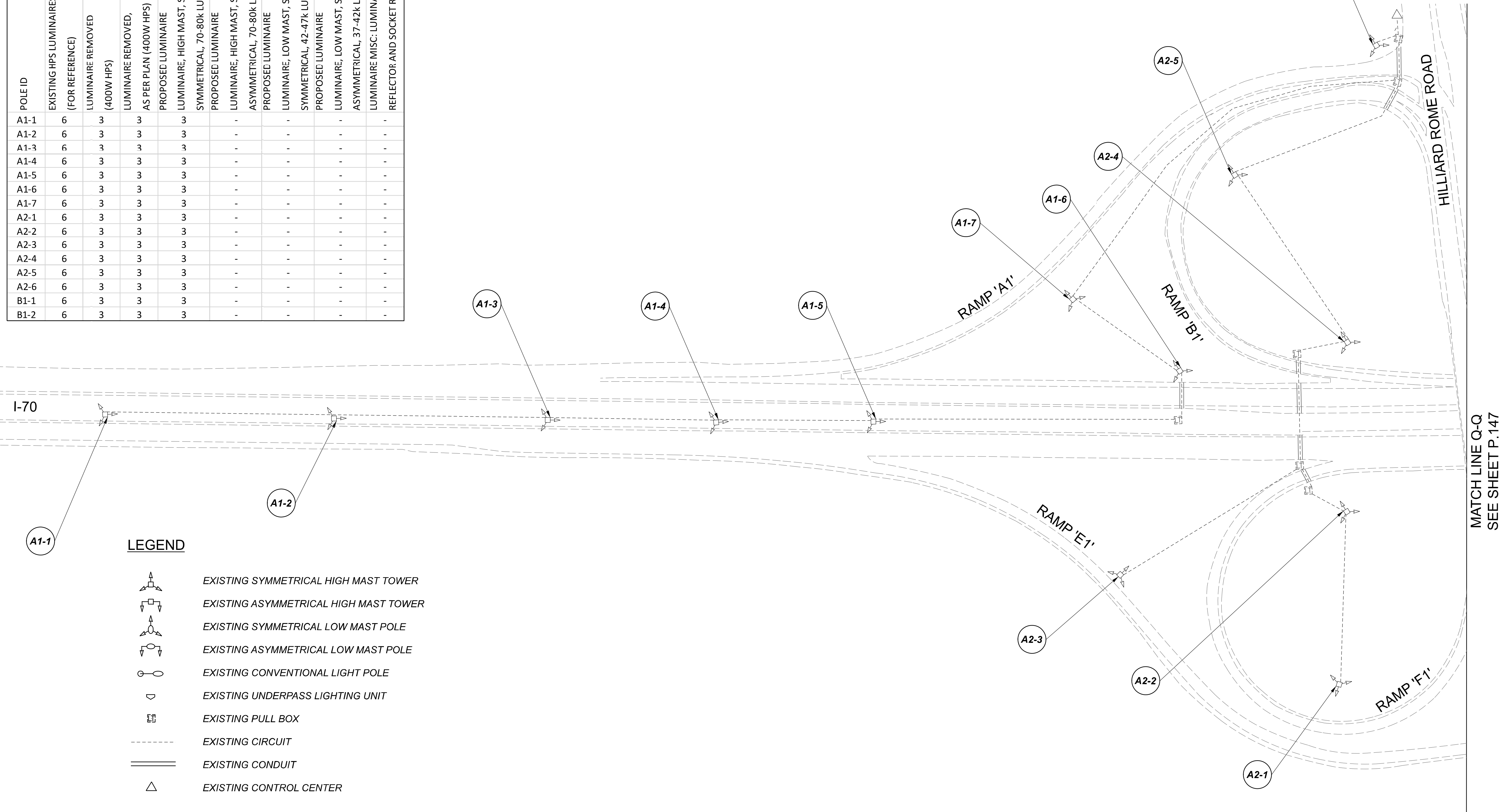
P.145 197

D06-Lighting Upgrade FY2021

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POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN	SYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN	ASYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN	SYMMETRICAL, 42-47k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN	ASYMMETRICAL, 37-42k LUMENS, 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
A1-1	6	3	3	3	3											
A1-2	6	3	3	3	3											
A1-3	6	3	3	3	3											
A1-4	6	3	3	3	3											
A1-5	6	3	3	3	3											
A1-6	6	3	3	3	3											
A1-7	6	3	3	3	3											
A2-1	6	3	3	3	3											
A2-2	6	3	3	3	3											
A2-3	6	3	3	3	3											
A2-4	6	3	3	3	3											
A2-5	6	3	3	3	3											
A2-6	6	3	3	3	3											
B1-1	6	3	3	3	3											
B1-2	6	3	3	3	3											

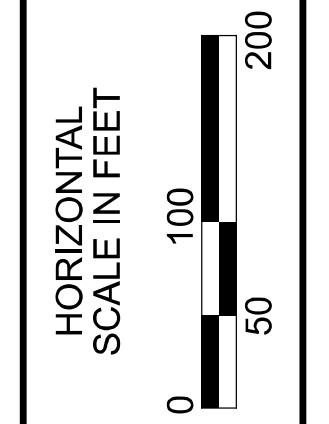
B1-3	6	3	3	3	-	-	-	-	-
B1-4	6	3	3	3	-	-	-	-	-
B3-1	6	3	3	3	-	-	-	-	-
B3-2	6	3	3	3	-	-	-	-	-
B3-3	6	3	3	3	-	-	-	-	-
B3-4	6	3	3	3	-	-	-	-	-



LEGEND

- EXISTING SYMMETRICAL HIGH MAST TOWER
- EXISTING ASYMMETRICAL HIGH MAST TOWER
- EXISTING SYMMETRICAL LOW MAST POLE
- EXISTING ASYMMETRICAL LOW MAST POLE
- EXISTING CONVENTIONAL LIGHT POLE
- EXISTING UNDERPASS LIGHTING UNIT
- EXISTING PULL BOX
- EXISTING CIRCUIT
- EXISTING CONDUIT
- EXISTING CONTROL CENTER

MATCH LINE Q-Q
SEE SHEET P.147

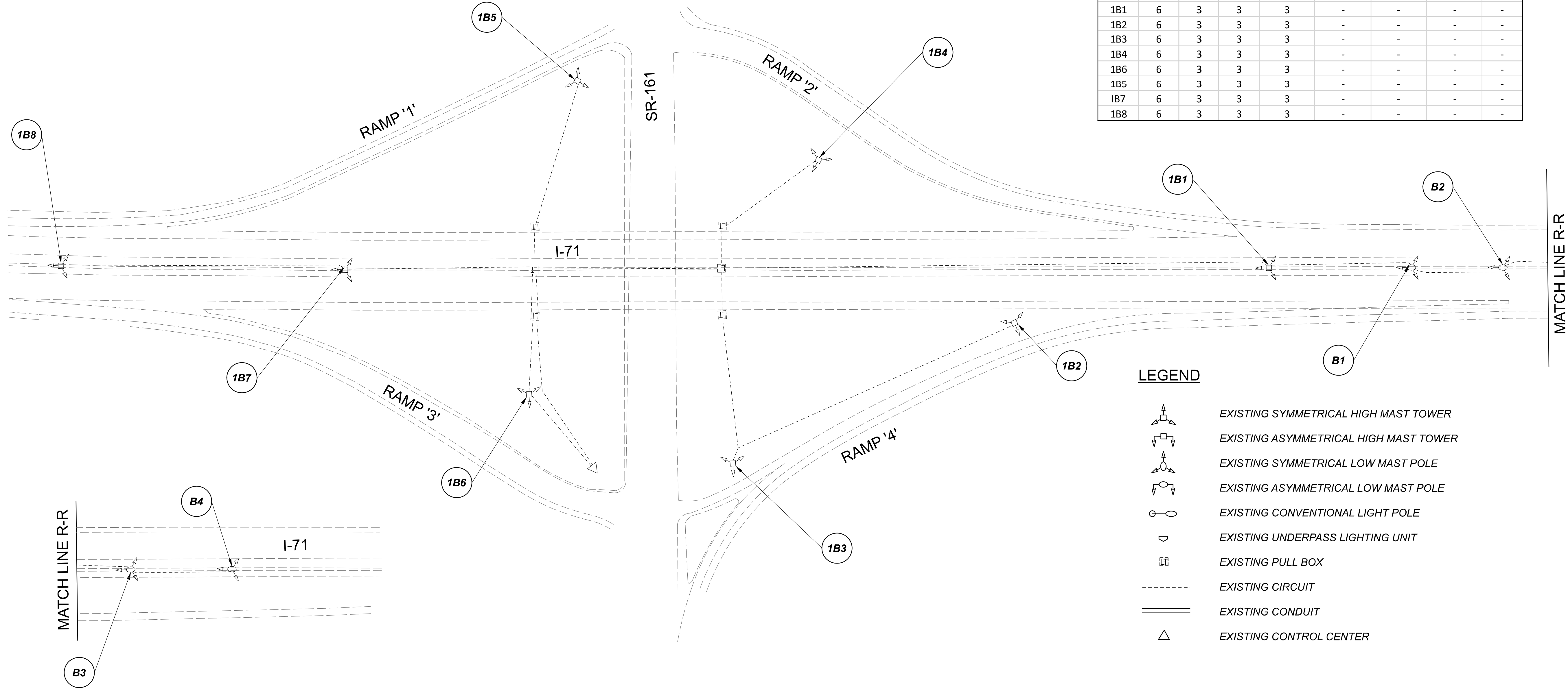


Lighting Plan - Location 77
I-70 and Hilliard Rome Road

DESIGN AGENCY	
SINGH SINGH & ASSOCIATES, INC. CONSULTING ENGINEERS	
DESIGNER	
VN	
REVIEWER	
SG 03/11/22	
PROJECT ID	
112676	
SUBSET	TOTAL
1	2
SHEET	
P.146	
TOTAL	
197	

D06-Lighting Upgrade FY2021

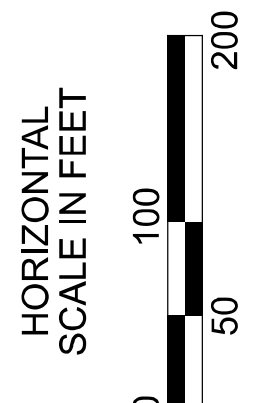
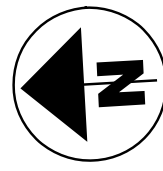
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POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 42-47k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 37-42k LUMENS, 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
B-4	1	1	-	-	-	-	-	-	1	-	-	-
B-3	1	1	-	-	-	-	-	-	1	-	-	-
B-2	1	1	-	-	-	-	-	-	1	-	-	-
B-1	1	1	-	-	-	-	-	-	1	-	-	-
1B1	6	3	3	3	-	-	-	-	-	-	-	-
1B2	6	3	3	3	-	-	-	-	-	-	-	-
1B3	6	3	3	3	-	-	-	-	-	-	-	-
1B4	6	3	3	3	-	-	-	-	-	-	-	-
1B6	6	3	3	3	-	-	-	-	-	-	-	-
1B5	6	3	3	3	-	-	-	-	-	-	-	-
1B7	6	3	3	3	-	-	-	-	-	-	-	-
1B8	6	3	3	3	-	-	-	-	-	-	-	-

LEGEND


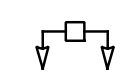
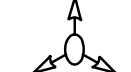
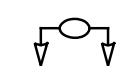
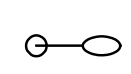


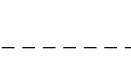
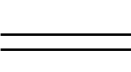

- EXISTING SYMMETRICAL HIGH MAST TOWER
- EXISTING ASYMMETRICAL HIGH MAST TOWER
- EXISTING SYMMETRICAL LOW MAST POLE
- EXISTING ASYMMETRICAL LOW MAST POLE
- EXISTING CONVENTIONAL LIGHT POLE
- EXISTING UNDERPASS LIGHTING UNIT
- EXISTING PULL BOX
- EXISTING CIRCUIT
- EXISTING CONDUIT
- EXISTING CONTROL CENTER



Lighting Plan - Location 80
I-71 and S.R. 161

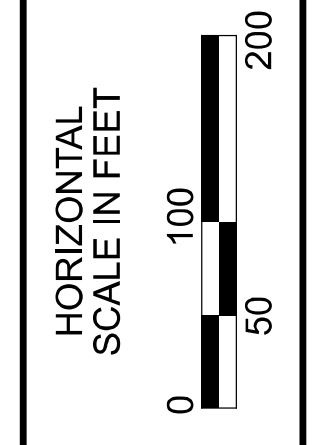
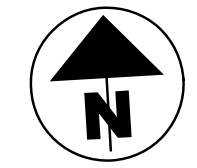
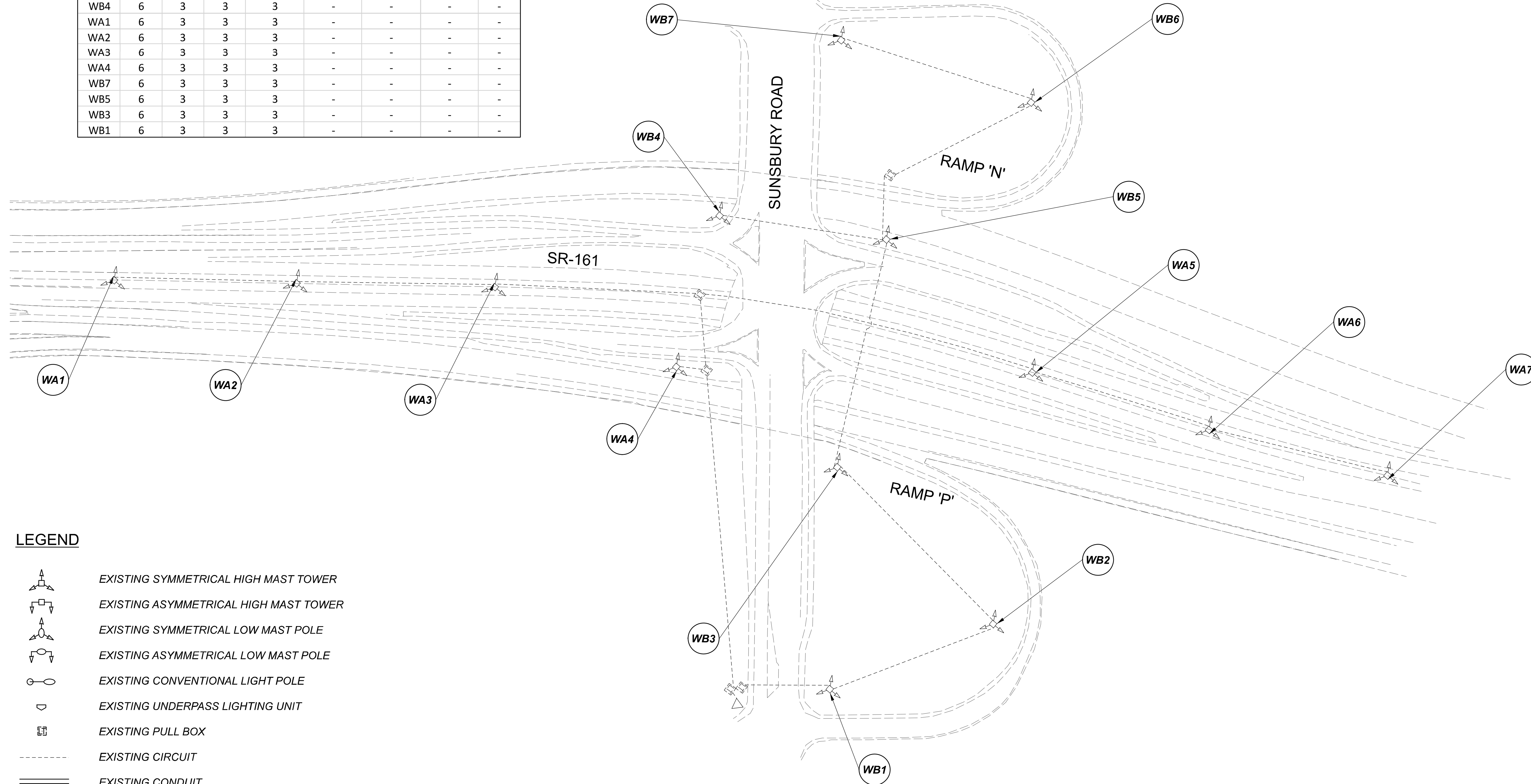
DESIGN AGENCY	
SINGH SINGH & ASSOCIATES, INC. CONSULTING ENGINEERS	
DESIGNER	
VN	
REVIEWER	
SG 03/11/22	
PROJECT ID	
112676	
SUBSET	TOTAL
1	1
SHEET	TOTAL
P.148	197

LEGEND

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER

POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN	SYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN	ASYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN	SYMMETRICAL, 42-47k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN	ASYMMETRICAL, 37-42k LUMENS, 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
WB4	6	3	3	3	3											
WA1	6	3	3	3												
WA2	6	3	3	3												
WA3	6	3	3	3												
WA4	6	3	3	3												
WB7	6	3	3	3												
WB5	6	3	3	3												
WB3	6	3	3	3												
WB1	6	3	3	3												

WB2	6	3	3	3												
WB6	6	3	3	3												
WA5	6	3	3	3												
WA6	6	3	3	3												
WA7	6	3	3	3												








Lighting Plan - Location 81
 S.R. 161 and South Sunsbury Road

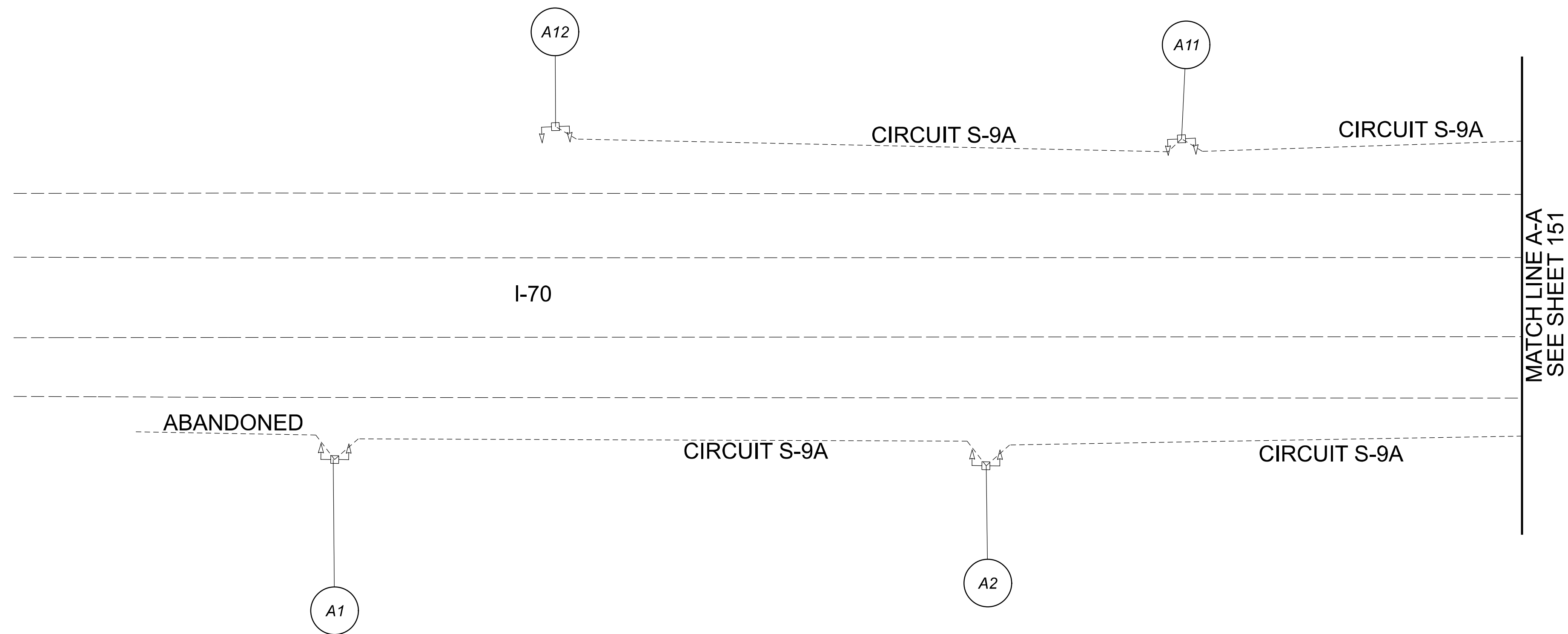
DESIGN AGENCY	
SINGH SINGH & ASSOCIATES, INC. CONSULTING ENGINEERS	
DESIGNER	
VN	
REVIEWER	
SG 03/11/22	
PROJECT ID	
112676	
SUBSET	TOTAL
1	1
SHEET	TOTAL
P.149	197

Lighting Upgrade FY2021

MODEL: 112676_LP12 PAPER SIZE: 34x22 (in.) DATE: 3/11/2022 TIME: 9:46:58 AM USER: DAddison
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LEGEND

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING CABLE
-  EXISTING CONTROL CENTER



Lighting Plan - Location D06-83
 I-70 and Brice Rd.

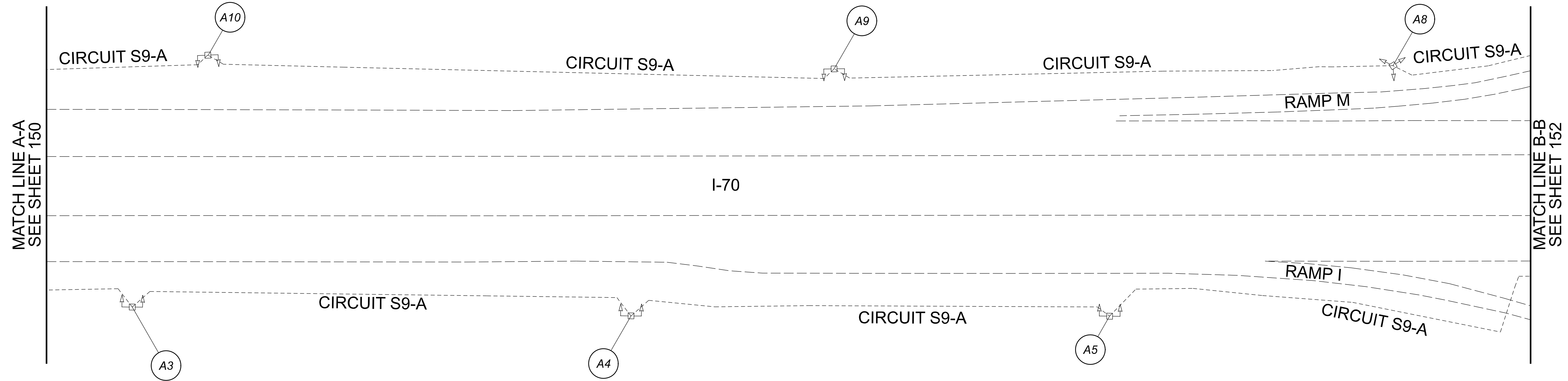


DESIGNER	DA
REVIEWER	RJM
DATE	03/11/22
PROJECT ID	112676
SHEET	150
TOTAL	197

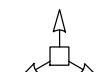
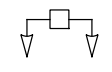
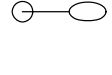


*THIS SHEET INCLUDED FOR REFERENCE ONLY. EXISTING LIGHTING TO BE CONVERTED TO LED BY OTHERS.

D06 Lighting Upgrade FY2021

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LEGEND

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING CABLE
-  EXISTING CONTROL CENTER

*THIS SHEET INCLUDED FOR REFERENCE ONLY. EXISTING LIGHTING TO BE CONVERTED TO LED BY OTHERS.

Lighting Plan - Location D06-83
 I-70 and Brice Rd.

DESIGN AGENCY



DESIGNER

DA

REVIEWER

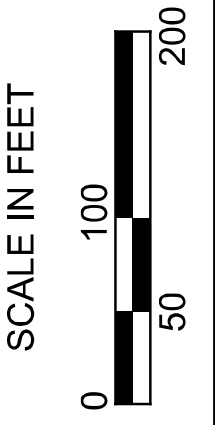
RJM 03/11/22

PROJECT ID

112676

SHEET TOTAL

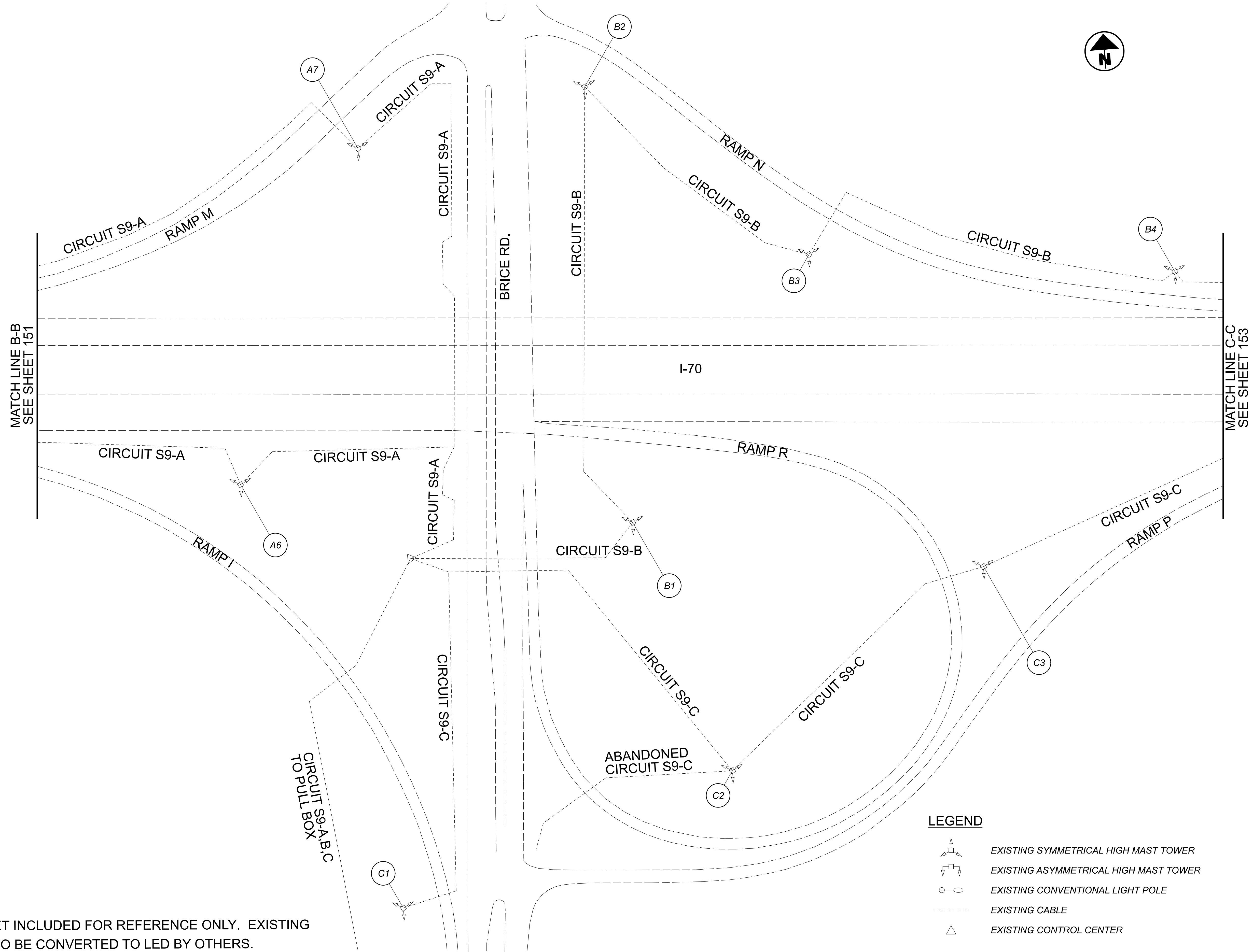
151 197



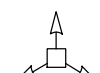
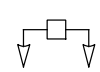
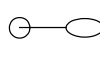
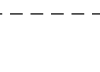
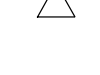
D06 Lighting Upgrade FY2021

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 pw: \\ohiodot-pw.bentley.com\ohiodot-pw-02\Documents\0 Active Projects\Statewide\Statewide\Lighting\Sheets\112676_LP014.dgn

*THIS SHEET INCLUDED FOR REFERENCE ONLY. EXISTING LIGHTING TO BE CONVERTED TO LED BY OTHERS.



LEGEND

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING CABLE
-  EXISTING CONTROL CENTER

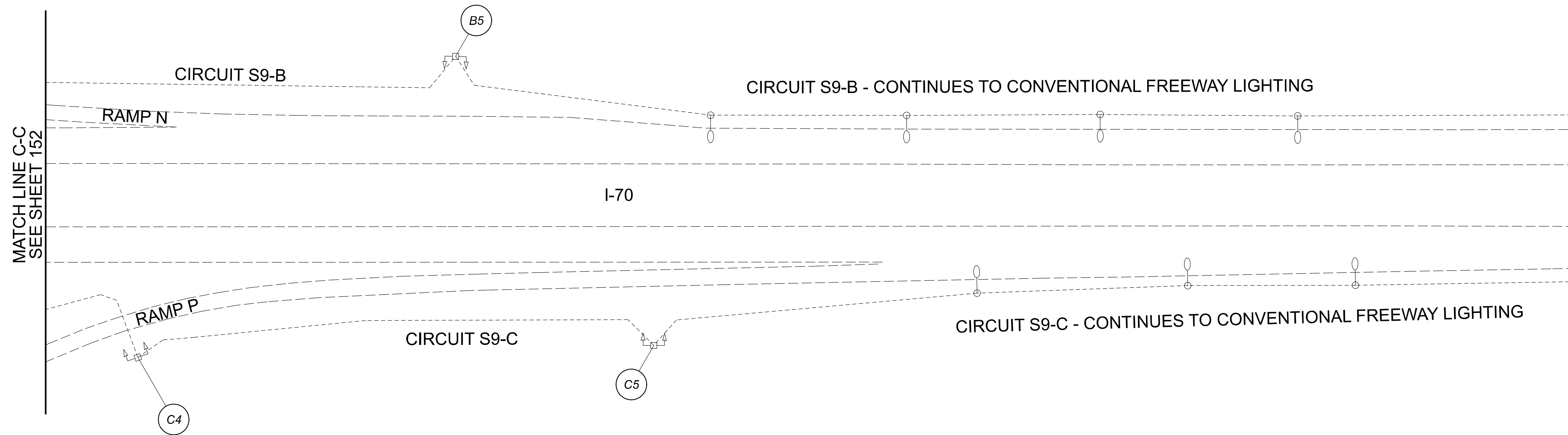
Lighting Plan - Location D06-83
 I-70 and Brice Rd.

DESIGN AGENCY

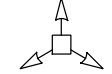
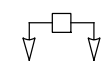
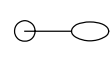
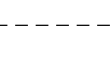

 2800 Corporate Exchange Drive, Suite 250,
 Columbus, OH 43231

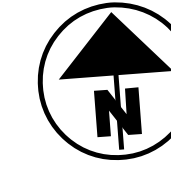
DESIGNER
 DA
 REVIEWER
 RJM 03/11/22
 PROJECT ID
 112676

SHEET	TOTAL
152	197



LEGEND

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING CABLE
-  EXISTING CONTROL CENTER



Lighting Plan - Location D06-83
I-70 and Brice Rd.



DESIGN AGENCY	
JMT	
2800 Corporate Exchange Drive, Suite 250 Columbus, OH 43231	
DESIGNER	
DA	
REVIEWER	
RJM 03/11/22	
PROJECT ID	
112676	
SHEET	TOTAL
153	197

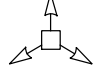
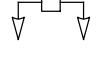



*THIS SHEET INCLUDED FOR REFERENCE ONLY. EXISTING LIGHTING TO BE CONVERTED TO LED BY OTHERS.

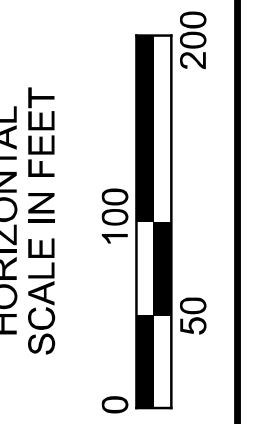
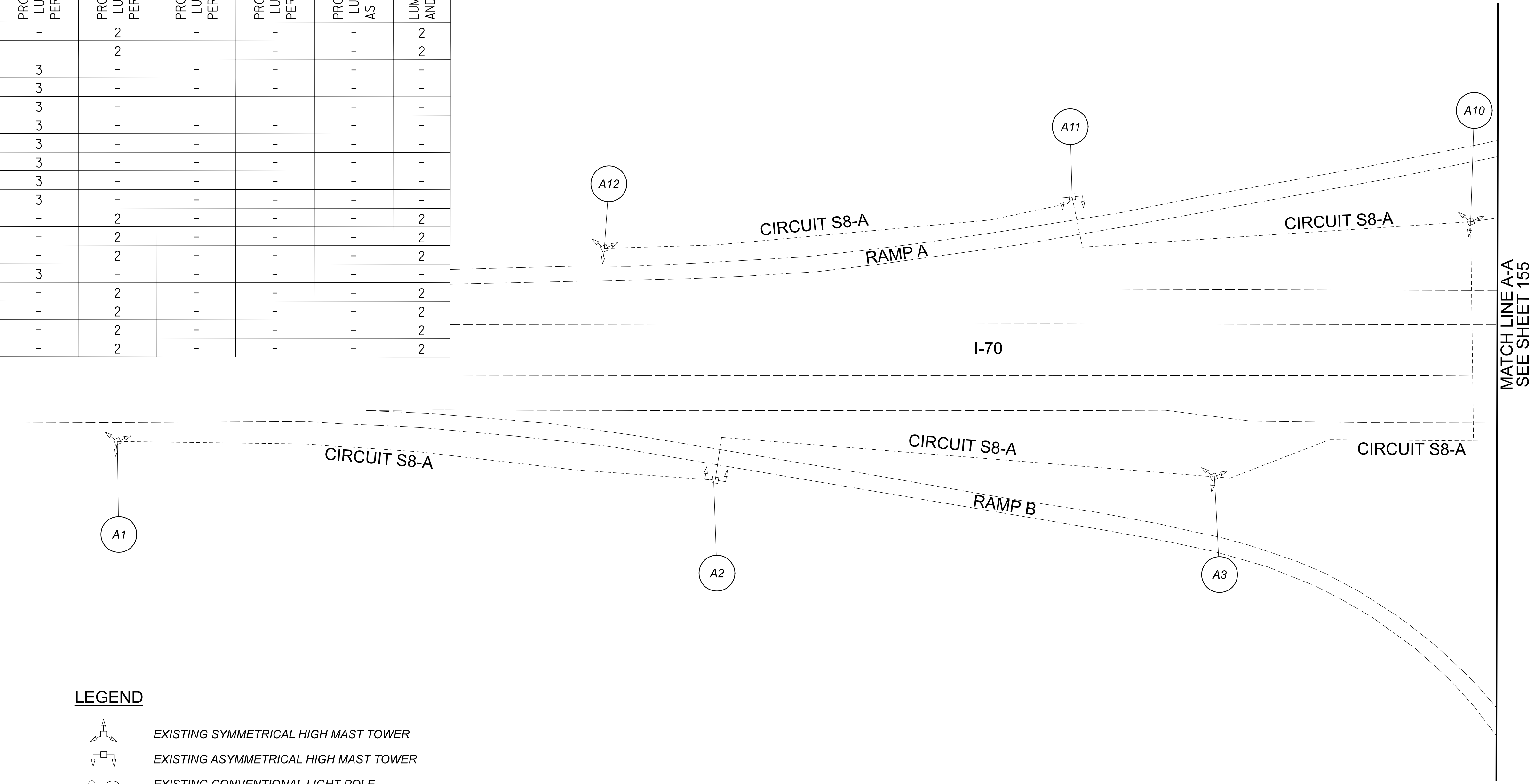
D06 Lighting Upgrade FY2021

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POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE LUMINAIRE HIGH MAST, SOLID STATE (LED), AS PER PLAN, SYMMETRICAL, 70-80K LUMENS, 480V	PROPOSED LUMINAIRE LUMINAIRE HIGH MAST, SOLID STATE (LED), AS PER PLAN, ASYMMETRICAL, 70-80K LUMENS, 480V	PROPOSED LUMINAIRE LUMINAIRE LOW MAST, SOLID STATE (LED), AS PER PLAN, SYMMETRICAL, 742-47K LUMENS, 480V	PROPOSED LUMINAIRE LUMINAIRE LOW MAST, SOLID STATE (LED), AS PER PLAN, ASYMMETRICAL, 742-47K LUMENS, 480V	PROPOSED LUMINAIRE LUMINAIRE CONVENTIONAL, SOLID STATE (LED), AS PER PLAN, ASYMMETRICAL, 15-17K LUMENS, 480V	LUMINAIRE MISC.: LUMINAIRE GLASS, REFLECTOR, AND SOCKET REMOVED
A1	4	2	-	-	2	-	-	-	2
A2	4	2	-	-	2	-	-	-	2
A3	6	3	3	3	-	-	-	-	-
A4	6	3	3	3	-	-	-	-	-
A5	6	3	3	3	-	-	-	-	-
A6	6	3	3	3	-	-	-	-	-
A7	6	3	3	3	-	-	-	-	-
A8	6	3	3	3	-	-	-	-	-
A9	6	3	3	3	-	-	-	-	-
A10	6	3	3	3	-	-	-	-	-
A11	4	2	-	-	2	-	-	-	2
A12	4	2	-	-	2	-	-	-	2
B1	4	2	-	-	2	-	-	-	2
B2	6	3	3	3	-	-	-	-	-
B3	4	2	-	-	2	-	-	-	2
B4	4	2	-	-	2	-	-	-	2
B24	4	2	-	-	2	-	-	-	2
B25	4	2	-	-	2	-	-	-	2

LEGEND

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING CABLE
-  EXISTING CONTROL CENTER



Lighting Plan - Location D06-84
I-70 and SR-317 (Hamilton Rd.)

DESIGN AGENCY

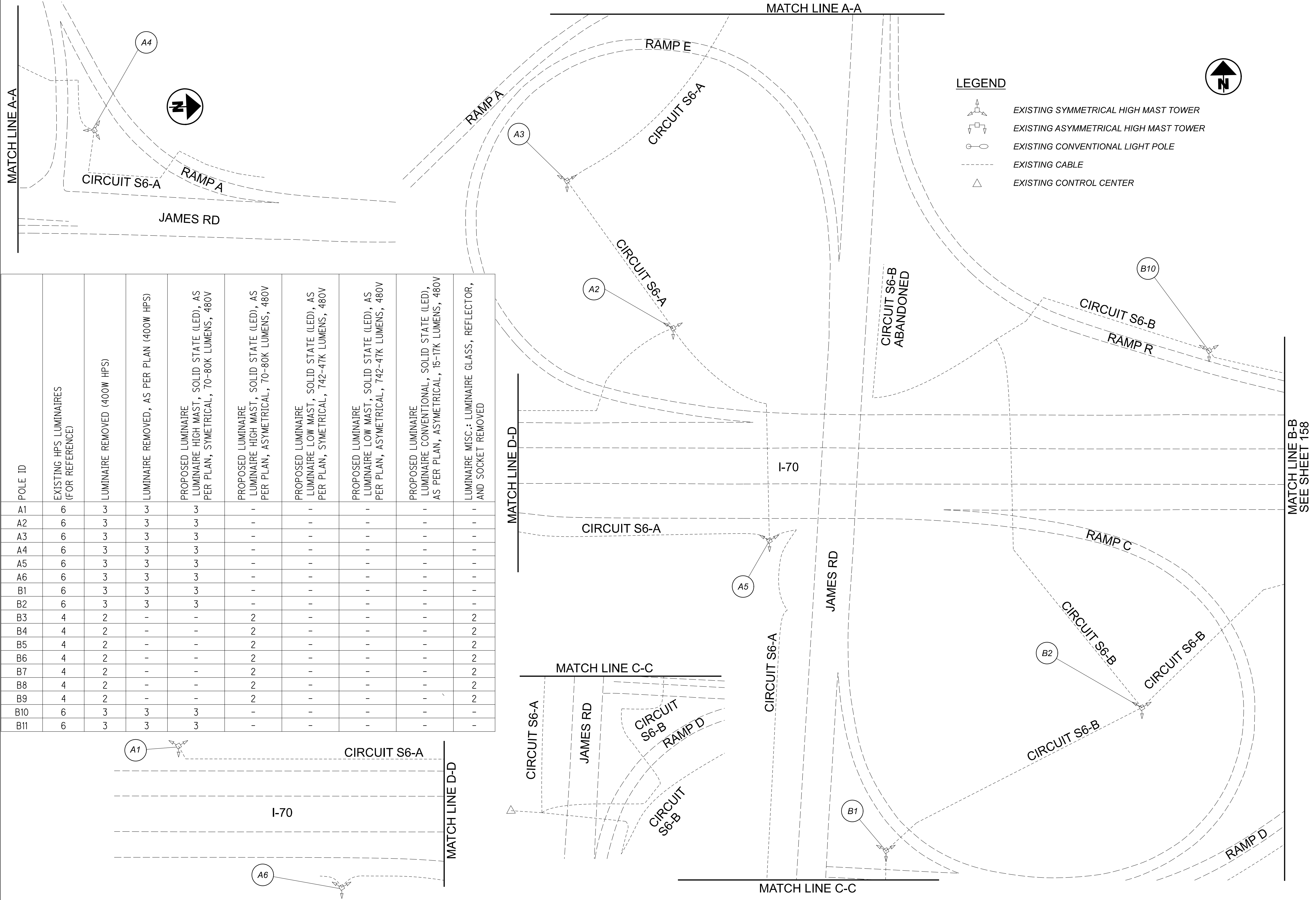
 2800 Corporate Exchange Drive, Suite 250
 Columbus, OH 43231

DESIGNER	DA
REVIEWER	RJM
DATE	03/11/22
PROJECT ID	112676
SHEET	154
TOTAL	197

D06 Lighting Upgrade FY2021

MODEL: 112676_LF019 PAPER: 34x22 (in.) DATE: 3/11/2022 TIME: 9:48:54 AM USER: DAddison
 pw: \ohiodot-pw.bentley.com\ohiodot-pw-02\Documents\0 Active Projects\Statewide\112676_402-Engineering_JMT\Lighting\Sheets\112676_LP020.dgn

POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE LUMINAIRE HIGH MAST, SOLID STATE (LED), AS PER PLAN, SYMMETRICAL, 70-80K LUMENS, 480V	PROPOSED LUMINAIRE LUMINAIRE HIGH MAST, SOLID STATE (LED), AS PER PLAN, ASYMMETRICAL, 70-80K LUMENS, 480V	PROPOSED LUMINAIRE LUMINAIRE LOW MAST, SOLID STATE (LED), AS PER PLAN, SYMMETRICAL, 742-47K LUMENS, 480V	PROPOSED LUMINAIRE LUMINAIRE LOW MAST, SOLID STATE (LED), AS PER PLAN, ASYMMETRICAL, 742-47K LUMENS, 480V	PROPOSED LUMINAIRE LUMINAIRE CONVENTIONAL, SOLID STATE (LED), AS PER PLAN, ASYMMETRICAL, 15-17K LUMENS, 480V	LUMINAIRE MISC.: LUMINAIRE GLASS, REFLECTOR, AND SOCKET REMOVED
A1	0	3	3	3	-	-	-	-	-
A2	0	3	3	3	-	-	-	-	-
A3	0	3	3	3	-	-	-	-	-
A4	0	3	3	3	-	-	-	-	-
A5	0	3	3	3	-	-	-	-	-
A6	0	3	3	3	-	-	-	-	-
B1	0	3	3	3	-	-	-	-	-
B2	0	3	3	3	-	-	-	-	-
B3	4	2	-	-	2	-	-	-	2
B4	4	2	-	-	2	-	-	-	2
B5	4	2	-	-	2	-	-	-	2
B6	4	2	-	-	2	-	-	-	2
B7	4	2	-	-	2	-	-	-	2
B8	4	2	-	-	2	-	-	-	2
B9	4	2	-	-	2	-	-	-	2
B10	6	3	3	3	-	-	-	-	-
B11	6	3	3	3	-	-	-	-	-



Lighting Plan - Location D06-85
I-70 and James Rd.

MATCH LINE B-B
SEE SHEET 158

HORIZONTAL SCALE IN FEET
0 50 100 200






DESIGN AGENCY	
2800 Corporate Exchange Drive, Suite 250 Columbus, OH 43231	
DESIGNER	DA
REVIEWER	RJM 03/11/22
PROJECT ID	112676
SHEET	TOTAL
157	197

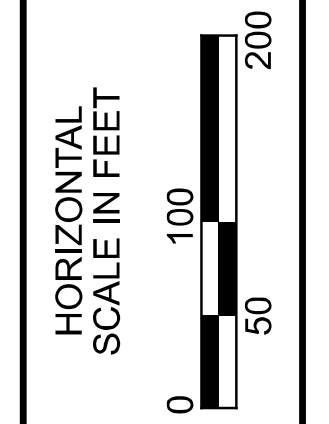
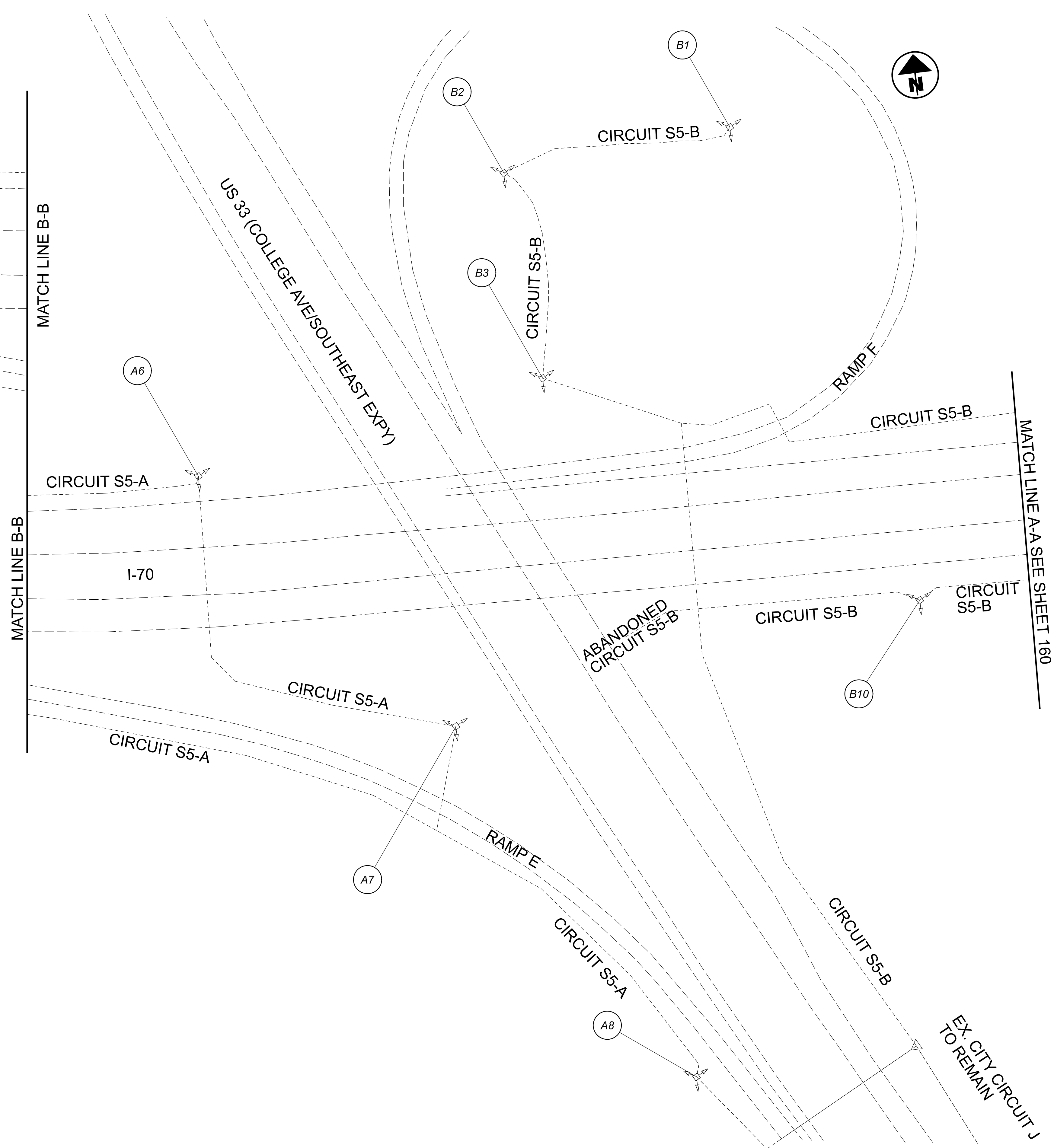
D06 Lighting Upgrade FY2021

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 pw: \ohiodot-pw.bentley.com\ohiodot-pw-02\Documents\0 Active Projects\Statewide\Statewide\Lighting\Lighting\Sheets\112676_LP022.dgn


POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE LUMINAIRE HIGH MAST, SOLID STATE (LED), AS PER PLAN, SYMETRICAL, 70-80K LUMENS, 480V	PROPOSED LUMINAIRE LUMINAIRE HIGH MAST, SOLID STATE (LED), AS PER PLAN, ASYMETRICAL, 70-80K LUMENS, 480V	PROPOSED LUMINAIRE LUMINAIRE LOW MAST, SOLID STATE (LED), AS PER PLAN, SYMETRICAL, 742-47K LUMENS, 480V	PROPOSED LUMINAIRE LUMINAIRE LOW MAST, SOLID STATE (LED), AS PER PLAN, ASYMETRICAL, 742-47K LUMENS, 480V	PROPOSED LUMINAIRE LUMINAIRE CONVENTIONAL, SOLID STATE (LED), AS PER PLAN, ASYMETRICAL, 15-17K LUMENS, 480V	LUMINAIRE MISC.: LUMINAIRE GLASS, REFLECTOR, AND SOCKET REMOVED
A5	4	2	-	-	2	-	-	-	2
A6	4	2	-	-	2	-	-	-	2
A7	6	3	3	3	-	-	-	-	-
A8	4	2	-	-	2	-	-	-	2
A9	4	2	-	-	2	-	-	-	2
B1	4	2	-	-	2	-	-	-	2
B2	4	2	-	-	2	-	-	-	2
B3	4	2	-	-	2	-	-	-	2
B4	4	2	-	-	2	-	-	-	2
B5	4	2	-	-	2	-	-	-	2
B6	4	2	-	-	2	-	-	-	2
B7	4	2	-	-	2	-	-	-	2
B8	4	2	-	-	2	-	-	-	2
B9	4	2	-	-	2	-	-	-	2
B10	6	3	3	3	-	-	-	-	-

LEGEND

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING CABLE
-  EXISTING CONTROL CENTER



Lighting Plan - Location D06-86
 I-70 and US-33 (College Ave/Southeast Expy)

DESIGN AGENCY

 2800 Corporate Exchange Drive, Suite 251
 Columbus, OH 43231

DESIGNER
 DA

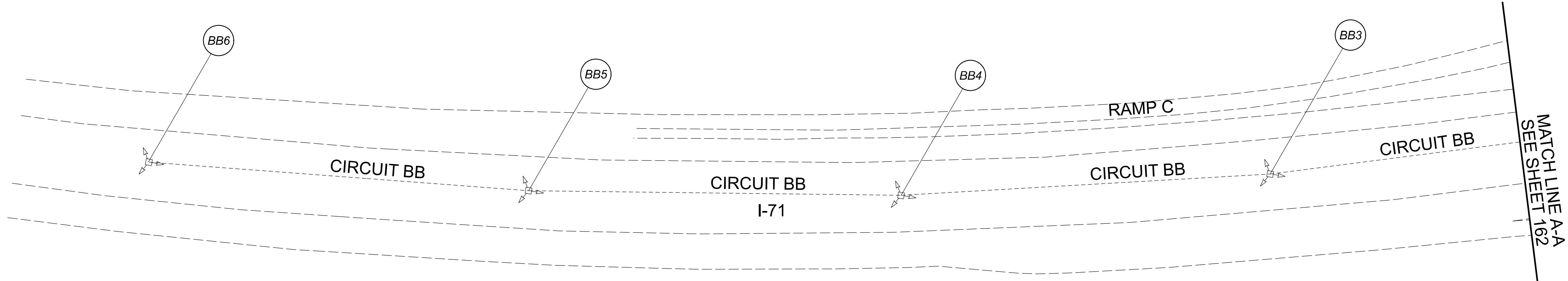
REVIEWER
 RJM 03/11/22

PROJECT ID
 112676

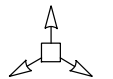
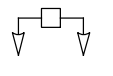
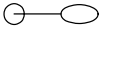


SHEET TOTAL
 159 197

D06 Lighting Upgrade FY2021

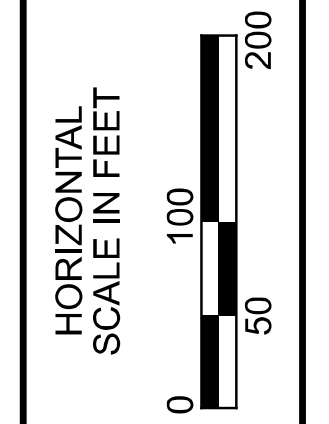
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 pw: \ohiodot-pw.bentley.com\ohiodot-pw-02\Documents\0 Active Projects\Statewide\12676\402-Engineering-JMT\Lighting\Sheets\12676_LP024.dgn



LEGEND

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING CABLE
-  EXISTING CONTROL CENTER

POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE LUMINAIRE HIGH MAST, SOLID STATE (LED), AS PER PLAN, SYMMETRICAL, 70-80K LUMENS, 480V	PROPOSED LUMINAIRE LUMINAIRE HIGH MAST, SOLID STATE (LED), AS PER PLAN, ASYMETRICAL, 70-80K LUMENS, 480V	PROPOSED LUMINAIRE LUMINAIRE LOW MAST, SOLID STATE (LED), AS PER PLAN, SYMMETRICAL, 742-47K LUMENS, 480V	PROPOSED LUMINAIRE LUMINAIRE LOW MAST, SOLID STATE (LED), AS PER PLAN, ASYMETRICAL, 742-47K LUMENS, 480V	PROPOSED LUMINAIRE LUMINAIRE CONVENTIONAL, SOLID STATE (LED), AS PER PLAN, ASYMETRICAL, 15-17K LUMENS, 480V	LUMINAIRE MISC.: LUMINAIRE GLASS, REFLECTOR, AND SOCKET REMOVED
BA1	6	3	3	3	-	-	-	-	-
BA2	6	3	3	3	-	-	-	-	-
BA3	6	3	3	3	-	-	-	-	-
BB1	6	3	3	3	-	-	-	-	-
BB2	6	3	3	3	-	-	-	-	-
BB3	6	3	3	3	-	-	-	-	-
BB4	6	3	3	3	-	-	-	-	-
BB5	6	3	3	3	-	-	-	-	-
BB6	6	3	3	3	-	-	-	-	-
CA1	6	3	3	3	-	-	-	-	-
CA2	6	3	3	3	-	-	-	-	-
CA3	6	3	3	3	-	-	-	-	-
CA4	6	3	3	3	-	-	-	-	-
CA5	6	3	3	3	-	-	-	-	-
CB1	6	3	3	3	-	-	-	-	-
CB2	6	3	3	3	-	-	-	-	-
CB3	6	3	3	3	-	-	-	-	-
CB4	6	3	3	3	-	-	-	-	-
CB5	6	3	3	3	-	-	-	-	-



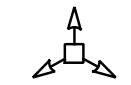
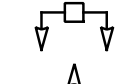
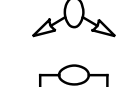
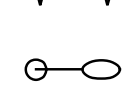






Lighting Plan - Location D06-88
 I-71 and SR-665 (London-Groveport Rd.)

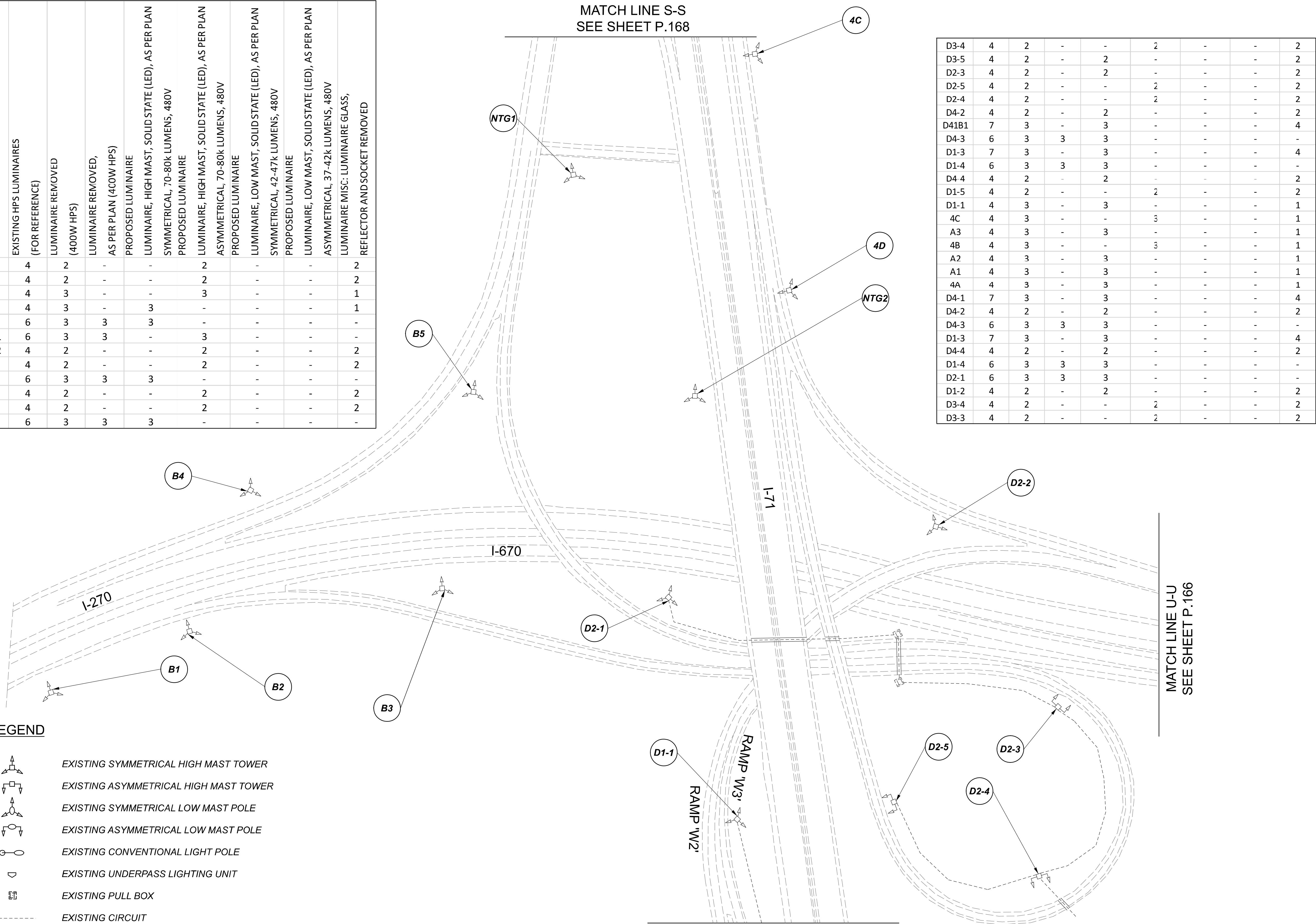


DESIGNER	DA
REVIEWER	RJM
DATE	03/11/22
PROJECT ID	112676
SHEET	161
TOTAL	197

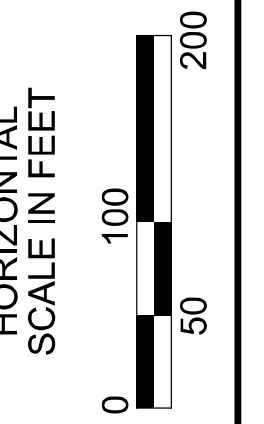
POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN	SYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN	ASYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN	SYMMETRICAL, 42-47k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN	ASYMMETRICAL, 37-42k LUMENS, 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
B1	4	2	-	-	-	-	-	-	-	-	-	-	-	-	-	2
B2	4	2	-	-	-	-	-	-	-	-	-	-	-	-	-	2
B4	4	3	-	-	-	-	-	-	-	-	-	-	-	-	-	1
B3	4	3	-	3	-	-	-	-	-	-	-	-	-	-	-	1
B5	6	3	3	3	-	-	-	-	-	-	-	-	-	-	-	-
NTG1	6	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-
NTG2	4	2	-	-	-	-	-	-	-	-	-	-	-	-	-	2
4D	4	2	-	-	-	-	-	-	-	-	-	-	-	-	-	2
D2-2	6	3	3	3	-	-	-	-	-	-	-	-	-	-	-	-
D3-1	4	2	-	-	-	-	-	-	-	-	-	-	-	-	-	2
D3-2	4	2	-	-	-	-	-	-	-	-	-	-	-	-	-	2
D3-6	6	3	3	3	-	-	-	-	-	-	-	-	-	-	-	-

LEGEND

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER



D3-4	4	2	-	-	2	-	-	-	2
D3-5	4	2	-	2	-	-	-	-	2
D2-3	4	2	-	2	-	-	-	-	2
D2-5	4	2	-	-	2	-	-	-	2
D2-4	4	2	-	-	2	-	-	-	2
D4-2	4	2	-	2	-	-	-	-	2
D41B1	7	3	-	3	-	-	-	-	4
D4-3	6	3	3	3	-	-	-	-	-
D1-3	7	3	-	3	-	-	-	-	4
D1-4	6	3	3	3	-	-	-	-	-
D4-4	4	2	-	2	-	-	-	-	2
D1-5	4	2	-	-	2	-	-	-	2
D1-1	4	3	-	3	-	-	-	-	1
4C	4	3	-	-	3	-	-	-	1
A3	4	3	-	3	-	-	-	-	1
4B	4	3	-	-	3	-	-	-	1
A2	4	3	-	3	-	-	-	-	1
A1	4	3	-	3	-	-	-	-	1
4A	4	3	-	3	-	-	-	-	1
D4-1	7	3	-	3	-	-	-	-	4
D4-2	4	2	-	2	-	-	-	-	2
D4-3	6	3	3	3	-	-	-	-	-
D1-3	7	3	-	3	-	-	-	-	4
D4-4	4	2	-	2	-	-	-	-	2
D1-4	6	3	3	3	-	-	-	-	-
D2-1	6	3	3	3	-	-	-	-	-
D1-2	4	2	-	2	-	-	-	-	2
D3-4	4	2	-	-	2	-	-	-	2
D3-3	4	2	-	-	2	-	-	-	2



Lighting Plan - Location 89
I-670 and I-71

DESIGN AGENCY



DESIGNER
VN

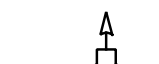
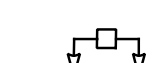
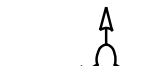
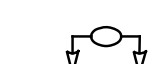
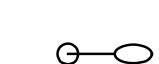
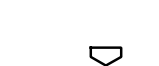


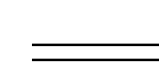
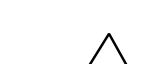
REVIEWER
SG 03/11/22

PROJECT ID
112676

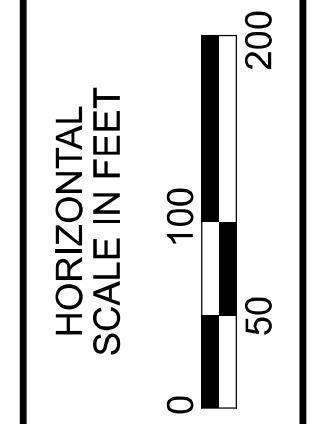
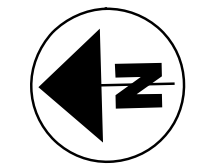
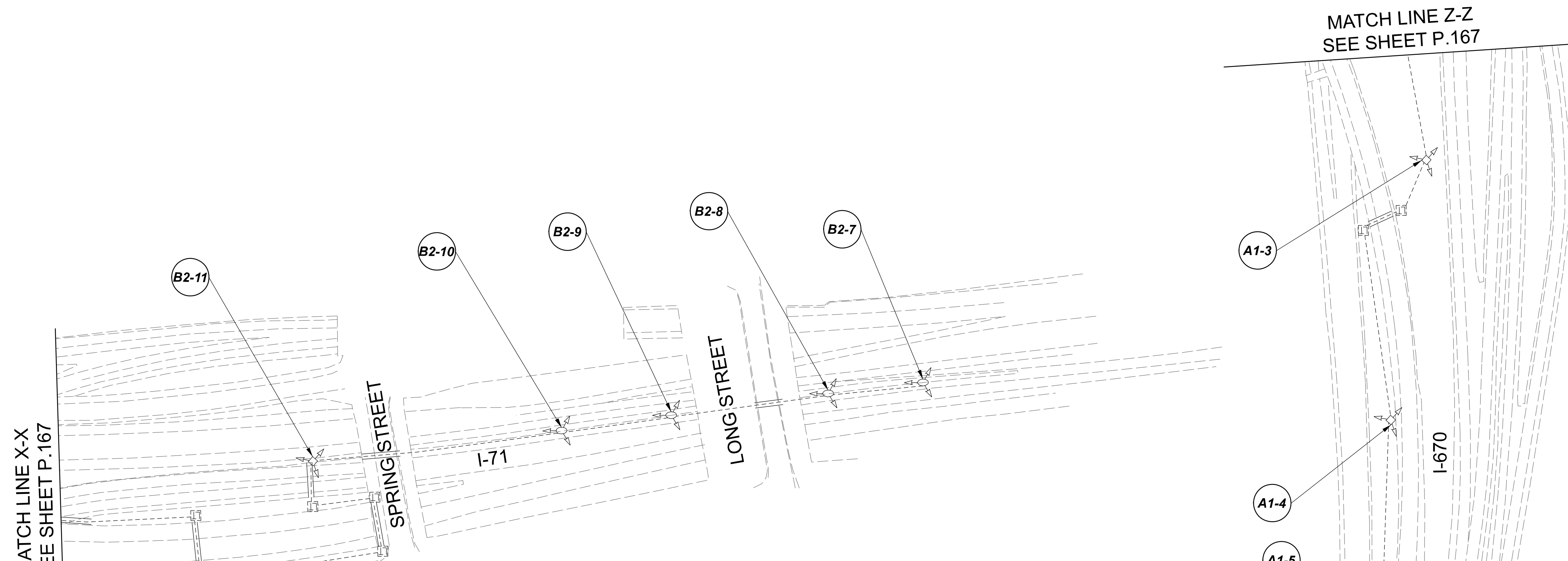
SUBSET	TOTAL
1	2

SHEET	TOTAL
P.165	197

LEGEND

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER

POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 42-47k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 37-42k LUMENS, 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
B2-7	1	1	-	-	-	-	-	1	-	-	-	-
B2-8	1	1	-	-	-	-	-	1	-	-	-	-
B2-9	1	1	-	-	-	-	-	1	-	-	-	-
B2-10	1	1	-	-	-	-	-	1	-	-	-	-
B2-11	7	3	-	3	-	-	-	-	-	-	-	4
B1-3	7	3	-	3	-	-	-	-	-	-	-	4
B1-2	7	3	-	3	-	-	-	-	-	-	-	4
B3-1	7	3	-	3	-	-	-	-	-	-	-	4
A2-4	1	1	-	-	-	-	-	1	-	-	-	-
A2-3	1	1	-	-	-	-	-	1	-	-	-	-
A2-2	1	1	-	-	-	-	-	1	-	-	-	-
A2-1	1	1	-	-	-	-	-	1	-	-	-	-
A1-5	1	1	-	-	-	-	-	1	-	-	-	-
A1-6	1	1	-	-	-	-	-	1	-	-	-	-
A1-4	4	3	-	3	-	-	-	-	-	-	-	1
A1-3	7	3	-	3	-	-	-	-	-	-	-	4
A1-2	6	3	3	3	-	-	-	-	-	-	-	-
A1-1	4	3	-	3	-	-	-	-	-	-	-	1
B1-1	7	3	-	3	-	-	-	-	-	-	-	4



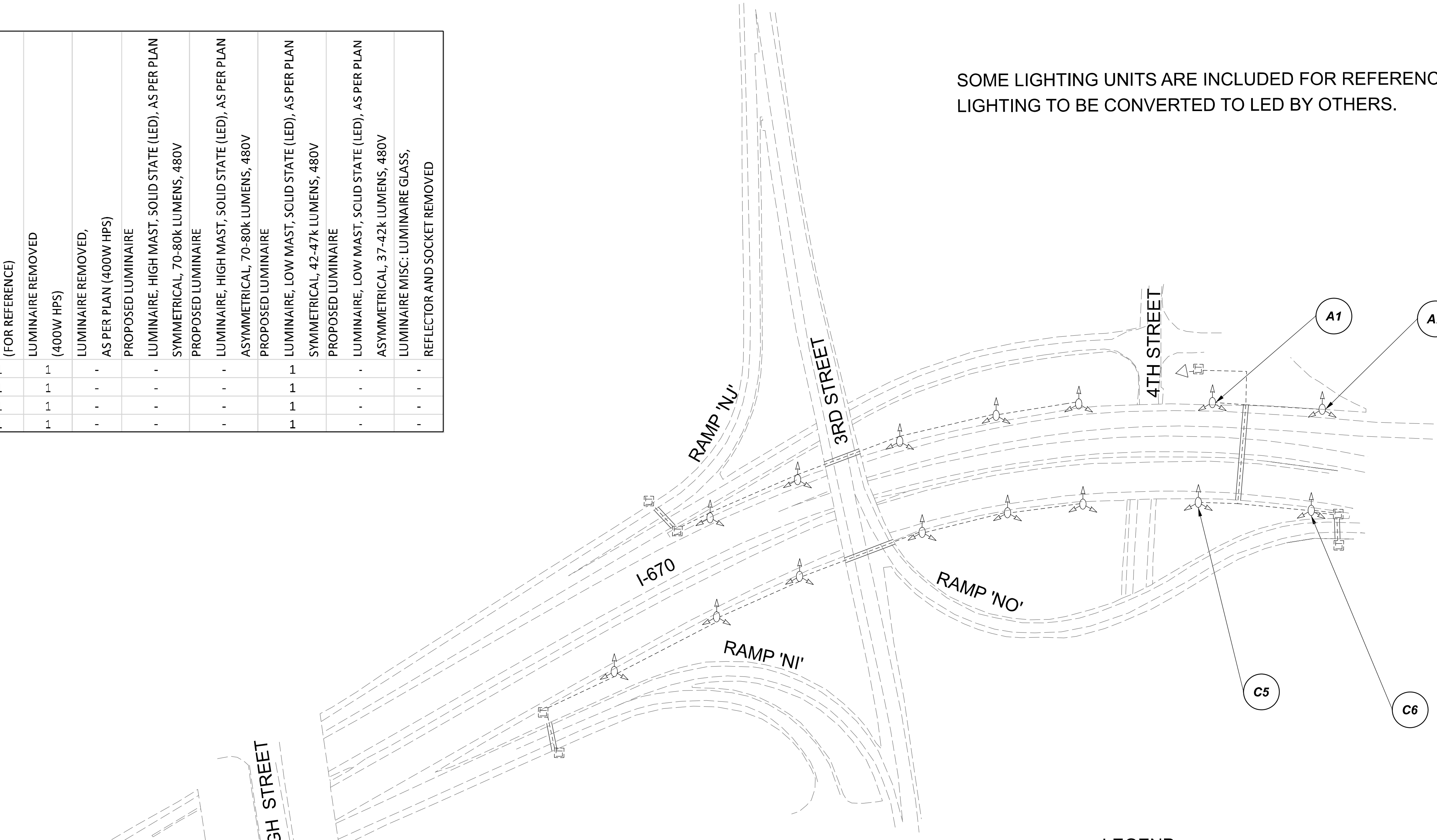
Lighting Plan - Location 90
I-71 and I-670

DESIGN AGENCY	
SINGH SINGH + ASSOCIATES, INC. CONSULTING ENGINEERS	
DESIGNER	
VN	
REVIEWER	
SG 03/11/22	
PROJECT ID	
112676	
SUBSET	TOTAL
2	2
SHEET	TOTAL
P.168	197

D06-Lighting Upgrade FY2021

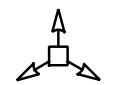
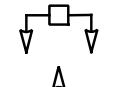
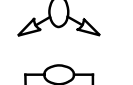
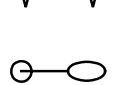


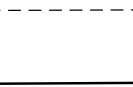



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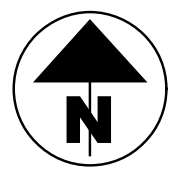
POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 42-47k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 37-42k LUMENS, 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
A1	1	1	-	-	-	-	-	-	1	-	-	-
A2	1	1	-	-	-	-	-	-	1	-	-	-
C5	1	1	-	-	-	-	-	-	1	-	-	-
C6	1	1	-	-	-	-	-	-	1	-	-	-



SOME LIGHTING UNITS ARE INCLUDED FOR REFERENCE ONLY.
 LIGHTING TO BE CONVERTED TO LED BY OTHERS.

LEGEND


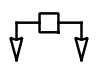
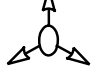
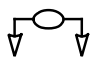
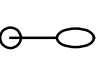


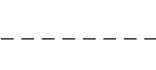
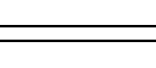

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER

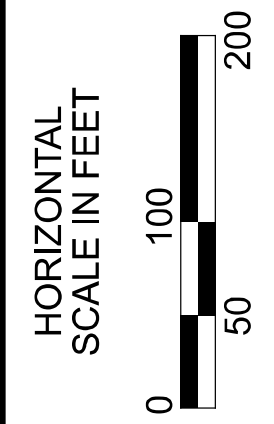
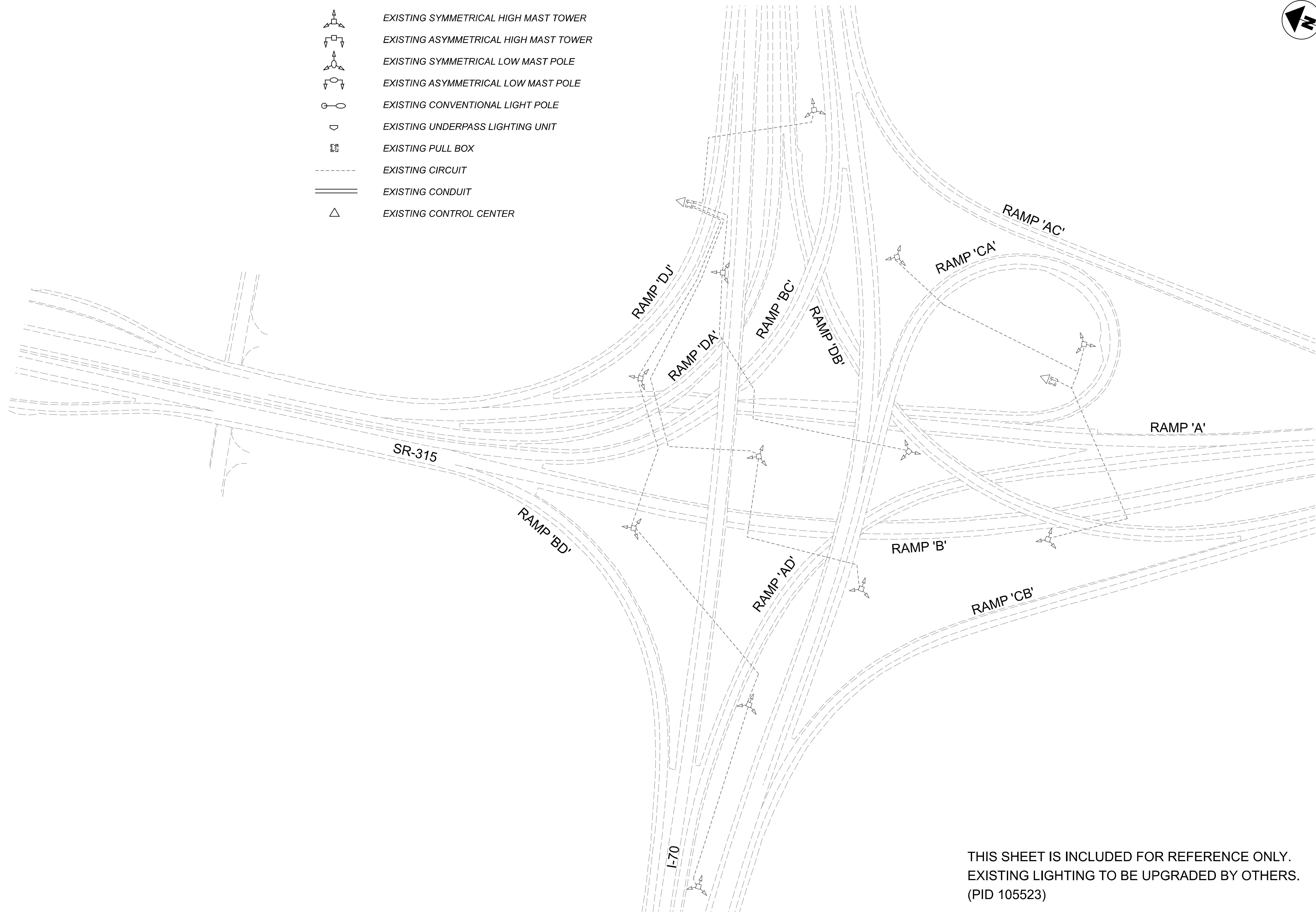


Lighting Plan - Location 91
 I-670 - Park Street to North 4th Street

DESIGN AGENCY	
SINGH SINGH + ASSOCIATES, INC. CONSULTING ENGINEERS	
DESIGNER	
VN	
REVIEWER	
SG 03/11/22	
PROJECT ID	
112676	
SUBSET	TOTAL
1	1
SHEET	TOTAL
P.169	197

LEGEND

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER



Lighting Plan - Location 93
 I-71 and S.R. 315

THIS SHEET IS INCLUDED FOR REFERENCE ONLY.
 EXISTING LIGHTING TO BE UPGRADED BY OTHERS.
 (PID 105523)

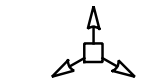
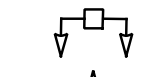
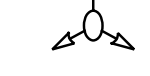




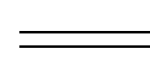


DESIGN AGENCY	
SINGH SINGH & ASSOCIATES, INC. CONSULTING ENGINEERS	
DESIGNER	
VN	
REVIEWER	
SG 03/11/22	
PROJECT ID	
112676	
SUBSET	TOTAL
1	1
SHEET	TOTAL
P.170	197

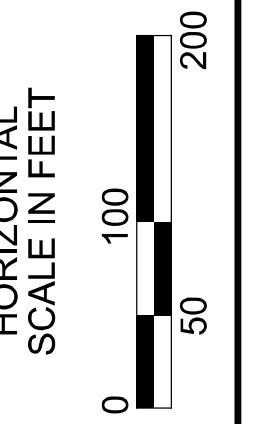
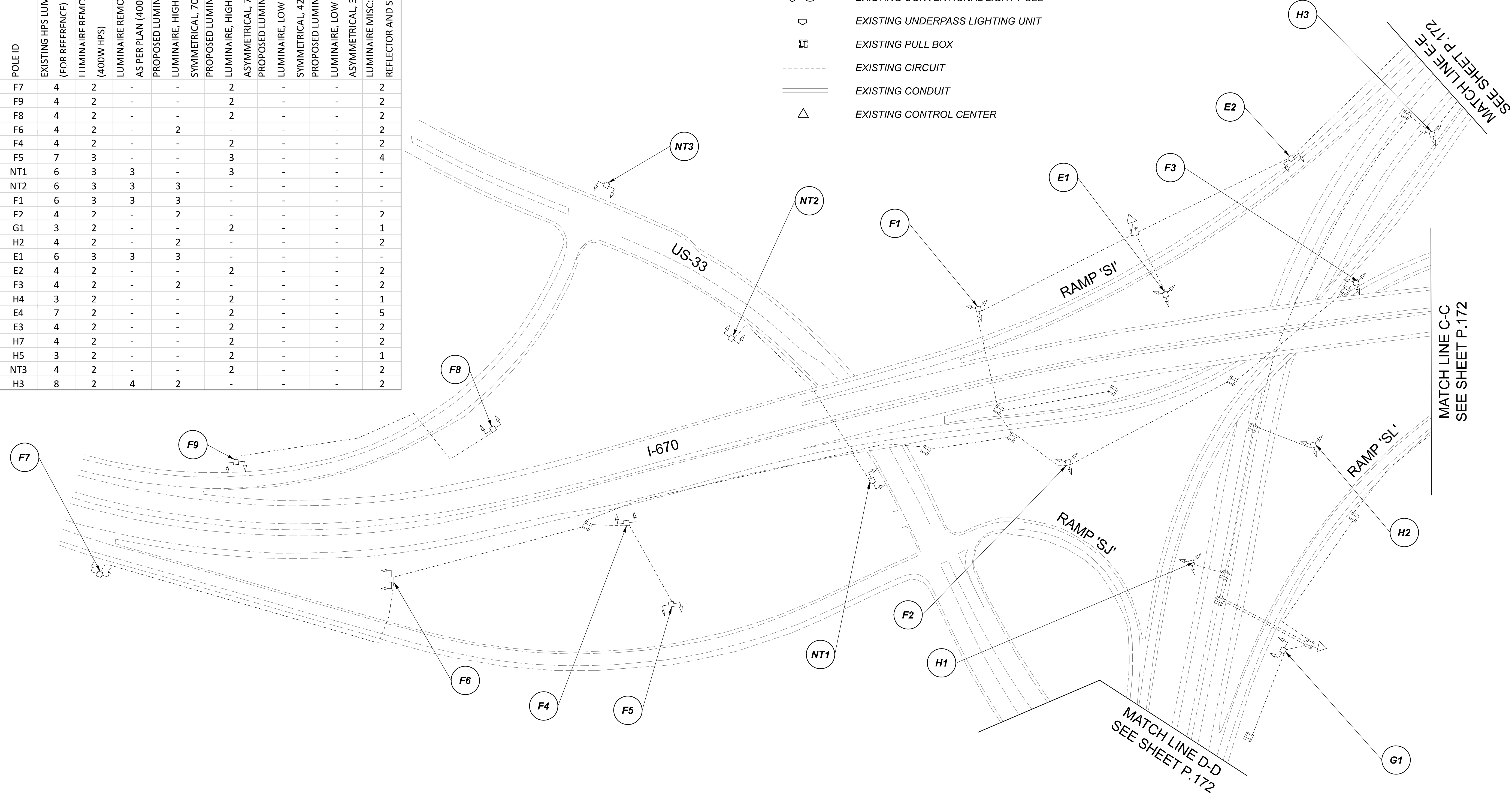
D06-Lighting Upgrade FY2021

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POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 42-47k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 37-42k LUMENS, 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
F7	4	2	-	-	-	2	-	-	-	-	2	2
F9	4	2	-	-	-	2	-	-	-	-	2	2
F8	4	2	-	-	-	2	-	-	-	-	2	2
F6	4	2	-	2	-	-	-	-	-	-	2	2
F4	4	2	-	-	-	2	-	-	-	-	2	2
F5	7	3	-	-	-	3	-	-	-	-	4	4
NT1	6	3	3	-	-	3	-	-	-	-	-	-
NT2	6	3	3	3	-	-	-	-	-	-	-	-
F1	6	3	3	3	-	-	-	-	-	-	-	-
F2	4	2	-	2	-	-	-	-	-	-	2	2
G1	3	2	-	-	-	2	-	-	-	-	1	1
H2	4	2	-	2	-	-	-	-	-	-	2	2
E1	6	3	3	3	-	-	-	-	-	-	-	-
E2	4	2	-	-	-	2	-	-	-	-	2	2
F3	4	2	-	2	-	-	-	-	-	-	2	2
H4	3	2	-	-	-	2	-	-	-	-	1	1
E4	7	2	-	-	-	2	-	-	-	-	5	5
E3	4	2	-	-	-	2	-	-	-	-	2	2
H7	4	2	-	-	-	2	-	-	-	-	2	2
H5	3	2	-	-	-	2	-	-	-	-	1	1
NT3	4	2	-	-	-	2	-	-	-	-	2	2
H3	8	2	4	2	-	-	-	-	-	-	2	2

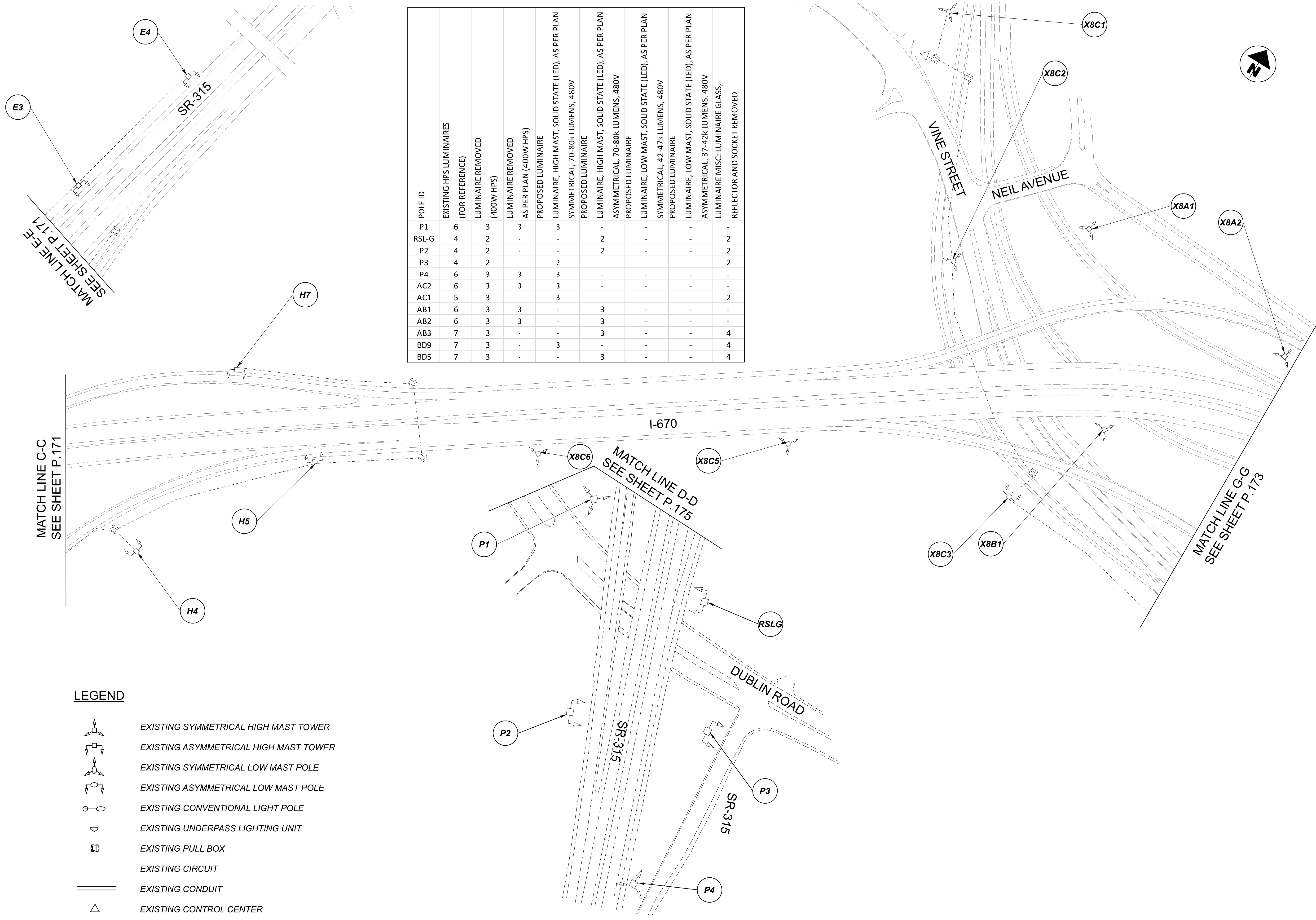
LEGEND

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER


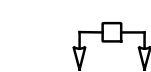

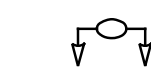
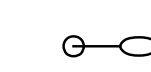
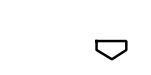

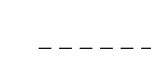
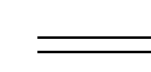



Lighting Plan - Location 95
 I-671 and US-33

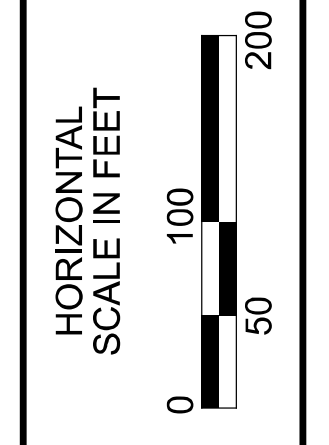
DESIGN AGENCY	
SINGH SINGH & ASSOCIATES, INC. CONSULTING ENGINEERS	
DESIGNER	
VN	
REVIEWER	
SG 03/11/22	
PROJECT ID	
112676	
SUBSET	TOTAL
1	1
SHEET	
P.171	TOTAL 197



LEGEND

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER

POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 42-47k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 37-42k LUMENS, 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
P1	6	3	3	3	-	-	-	-	-	-	-	-
RSL-G	4	2	-	-	-	2	-	-	-	-	2	-
P2	4	2	-	-	-	2	-	-	-	-	2	-
P3	4	2	-	2	-	-	-	-	-	-	2	-
P4	6	3	3	3	-	-	-	-	-	-	-	-
AC2	6	3	3	3	-	-	-	-	-	-	-	-
AC1	5	3	-	3	-	-	-	-	-	-	2	-
AB1	6	3	3	-	-	3	-	-	-	-	-	-
AB2	6	3	3	-	-	3	-	-	-	-	-	-
AB3	7	3	-	-	-	3	-	-	-	-	4	-
BD9	7	3	-	3	-	-	-	-	-	-	4	-
BD5	7	3	-	-	-	3	-	-	-	-	4	-

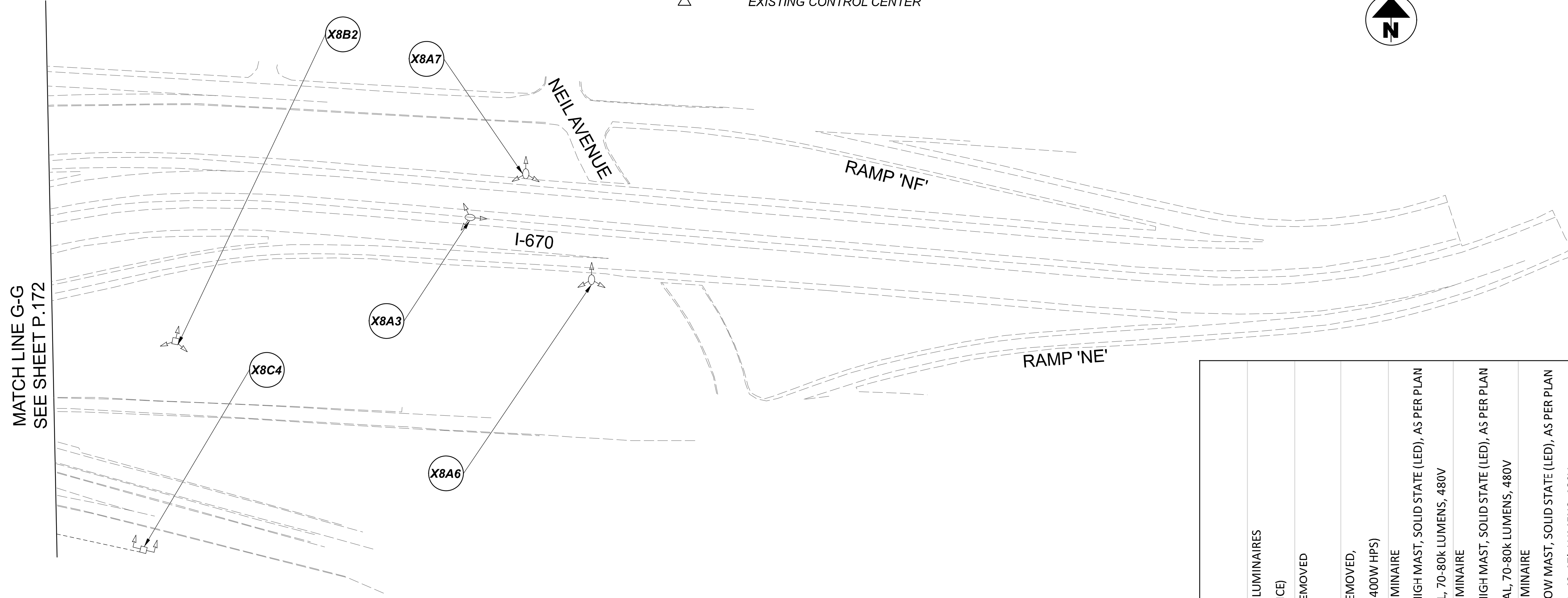


Lighting Plan - Location 96
 S.R. 315 and US-33

DESIGN AGENCY	
SINGH SINGH & ASSOCIATES, INC. CONSULTING ENGINEERS	
DESIGNER	
VN	
REVIEWER	
SG 03/11/22	
PROJECT ID	
112676	
SUBSET	TOTAL
1	1
SHEET	TOTAL
P.172	197

D06-Lighting Upgrade FY2021

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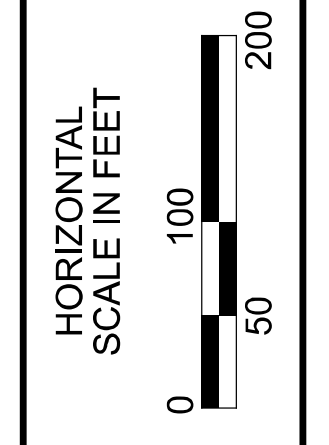


LEGEND

- EXISTING SYMMETRICAL HIGH MAST TOWER
- EXISTING ASYMMETRICAL HIGH MAST TOWER
- EXISTING SYMMETRICAL LOW MAST POLE
- EXISTING ASYMMETRICAL LOW MAST POLE
- EXISTING CONVENTIONAL LIGHT POLE
- EXISTING UNDERPASS LIGHTING UNIT
- EXISTING PULL BOX
- EXISTING CIRCUIT
- EXISTING CONDUIT
- EXISTING CONTROL CENTER



POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 42-47k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 37-42k LUMENS, 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
X8A3	1	1	-	-	-	-	-	1	-	-	-	-
X8A7	1	1	-	-	-	-	-	1	-	-	-	-
X8A6	1	1	-	-	-	-	-	1	-	-	-	-
X8C6	8	4	4	4	4	-	-	-	-	-	-	-
X8C5	8	4	4	4	4	-	-	-	-	-	-	-
X8C4	4	2	-	-	-	2	-	-	-	-	2	-
X8C3	4	2	-	-	-	2	-	-	-	-	2	-
X8C2	6	3	3	3	3	-	-	-	-	-	-	-
X8B1	6	3	3	3	3	-	-	-	-	-	-	-
X8B2	8	4	4	4	4	-	-	-	-	-	-	-
X8A1	6	3	3	3	3	-	-	-	-	-	-	-
X8A2	6	3	3	3	3	-	-	-	-	-	-	-
X8C1	7	4	-	-	4	-	-	-	-	-	-	3

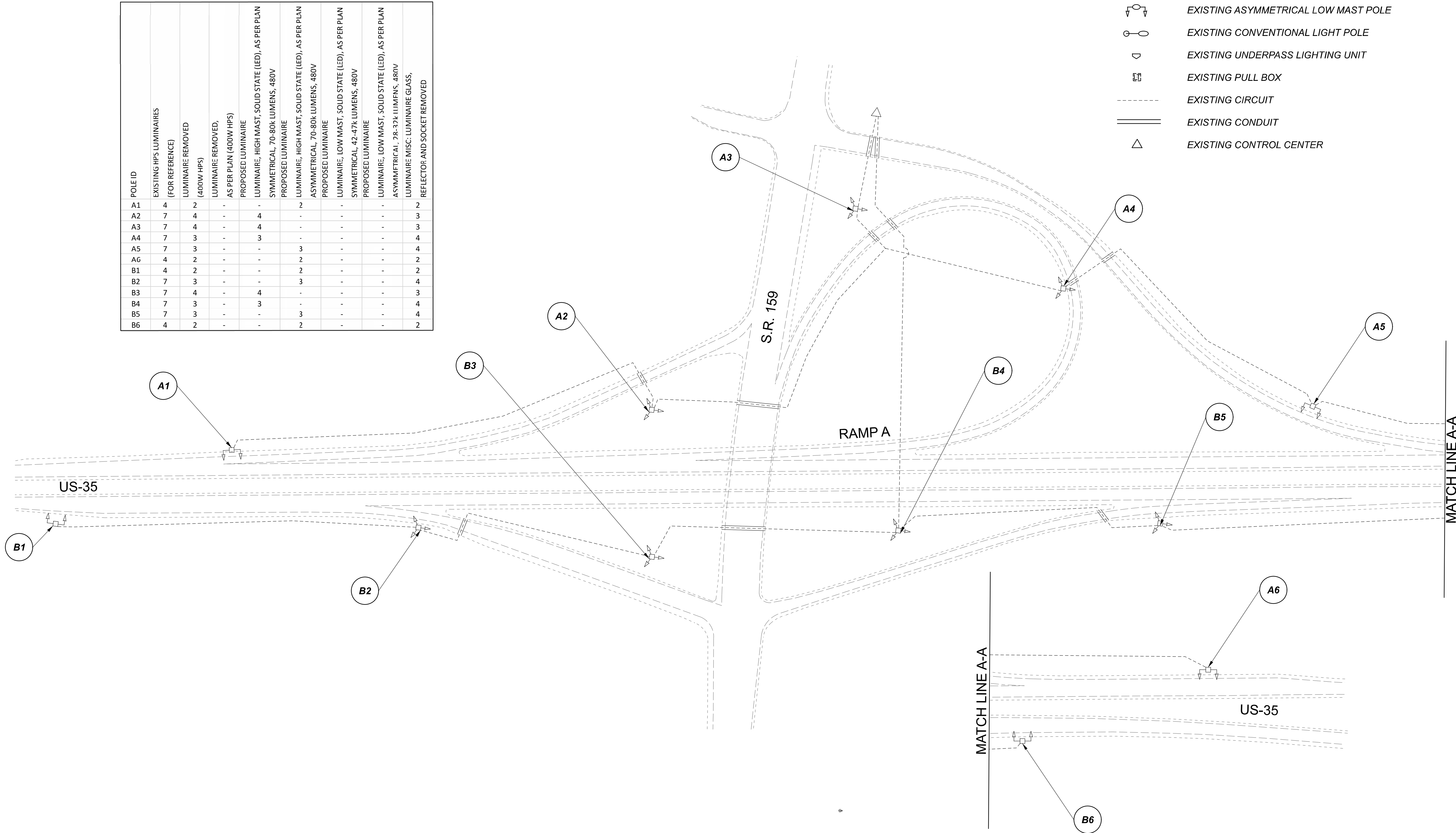


Lighting Plan - Location 97
I-670 - Park Street to Neil Avenue

DESIGN AGENCY	
SINGH SINGH & ASSOCIATES, INC. CONSULTING ENGINEERS	
DESIGNER	
VN	
REVIEWER	
SG 03/11/22	
PROJECT ID	
112676	
SUBSET	TOTAL
1	1
SHEET	TOTAL
P.173	197

D09-Lighting Upgrade FY2021

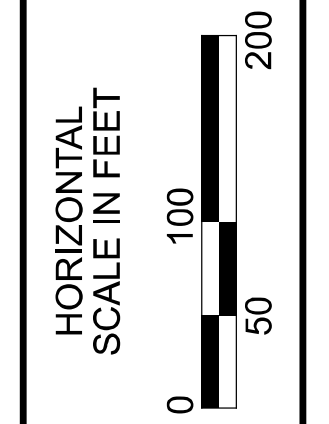
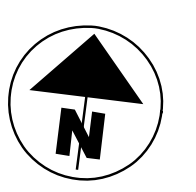
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POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN	SYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN	ASYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN	SYMMETRICAL, 42-47k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN	ASYMMETRICAL, 28-32k LUMENS, 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
A1	4	2	-	-	-	-	2	-	-	-	-	-	-	-	-	2
A2	7	4	-	-	4	-	3	-	-	-	-	-	-	-	-	3
A3	7	4	-	-	4	-	-	-	-	-	-	-	-	-	-	3
A4	7	3	-	-	3	-	-	-	-	-	-	-	-	-	-	4
A5	7	3	-	-	-	3	-	-	-	-	-	-	-	-	-	4
A6	4	2	-	-	-	2	-	-	-	-	-	-	-	-	-	2
B1	4	2	-	-	-	2	-	-	-	-	-	-	-	-	-	2
B2	7	3	-	-	-	3	-	-	-	-	-	-	-	-	-	4
B3	7	4	-	-	4	-	-	-	-	-	-	-	-	-	-	3
B4	7	3	-	-	3	-	-	-	-	-	-	-	-	-	-	4
B5	7	3	-	-	3	-	-	-	-	-	-	-	-	-	-	4
B6	4	2	-	-	-	2	-	-	-	-	-	-	-	-	-	2

LEGEND

- EXISTING SYMMETRICAL HIGH MAST TOWER
- EXISTING ASYMMETRICAL HIGH MAST TOWER
- EXISTING SYMMETRICAL LOW MAST POLE
- EXISTING ASYMMETRICAL LOW MAST POLE
- EXISTING CONVENTIONAL LIGHT POLE
- EXISTING UNDERPASS LIGHTING UNIT
- EXISTING PULL BOX
- EXISTING CIRCUIT
- EXISTING CONDUIT
- EXISTING CONTROL CENTER











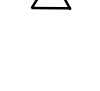

Lighting Plan - Location 56
US-35 and SR-159

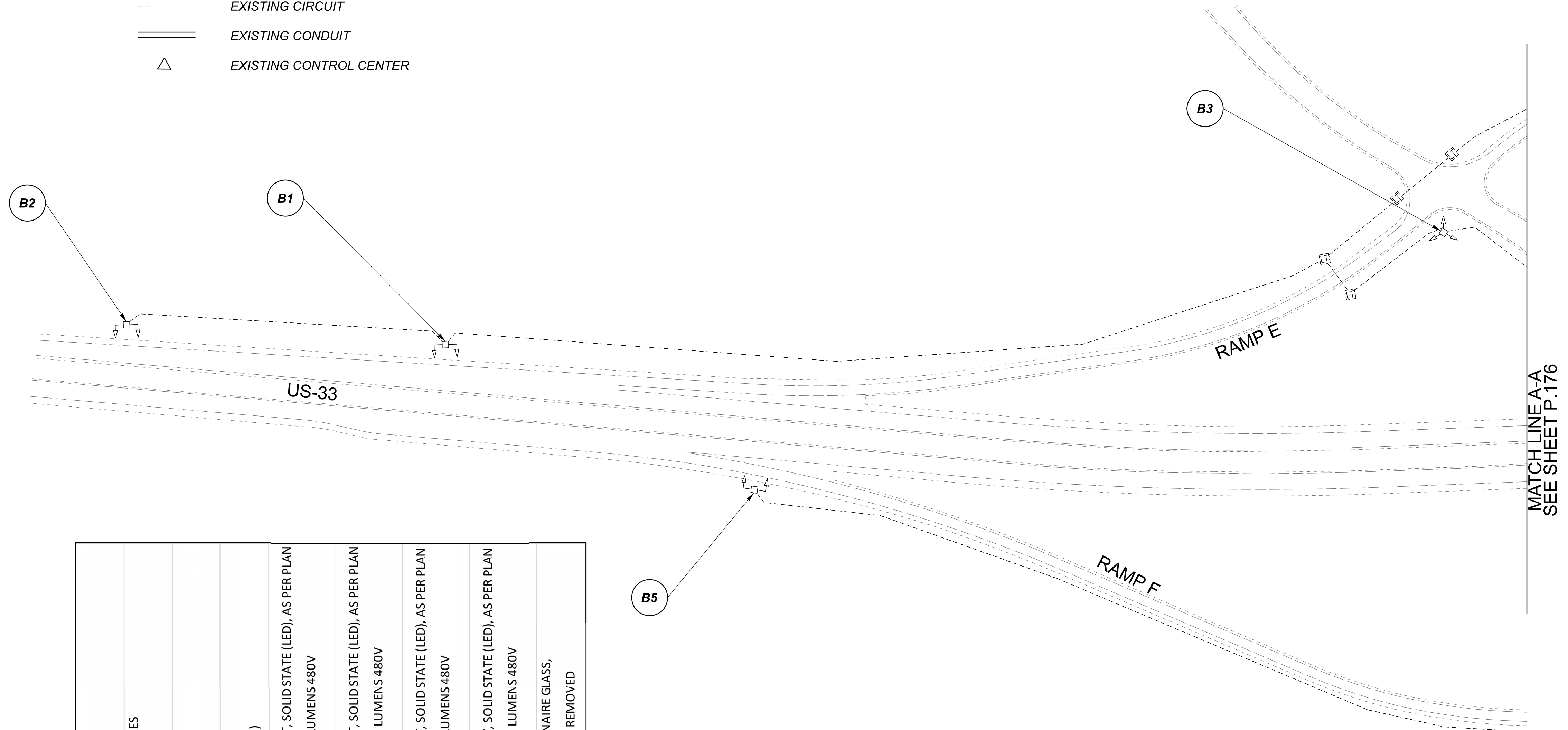
DESIGN AGENCY	
SINGH SINGH + ASSOCIATES, INC. CONSULTING ENGINEERS	
DESIGNER	
VN	
REVIEWER	
SG 03/11/22	
PROJECT ID	
112676	
SUBSET	TOTAL
1	1
SHEET	TOTAL
P.174	197

D10-Lighting Upgrade FY2021

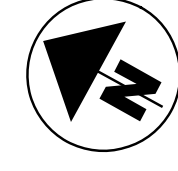
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LEGEND

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER



POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	LUMINAIRE - HIGH MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 70-80K LUMENS 480V	LUMINAIRE - HIGH MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 70-80K LUMENS 480V	LUMINAIRE - LOW MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 42-47K LUMENS 480V	LUMINAIRE - LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 28-32K LUMENS 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
B-4	4	2	-	2	-	-	-	2
B-3	4	2	-	2	-	-	-	2
B-1	4	2	-	-	2	-	-	2
B-2	4	2	-	-	2	-	-	2
B-5	4	2	-	-	2	-	-	2
B-8	4	2	-	-	2	-	-	2
B-6	4	2	-	-	2	-	-	2
B-7	4	2	-	-	2	-	-	2



Lighting Plan - Location 57
 US-33 and SR-78

DESIGN AGENCY



DESIGNER
VN

REVIEWER
SG 03/11/22

PROJECT ID
112676

SUBSET	TOTAL
1	2


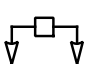
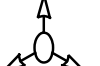
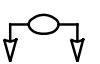
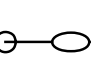



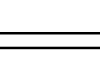

SHEET	TOTAL
P.175	197

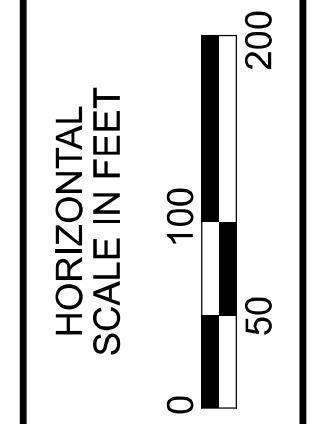
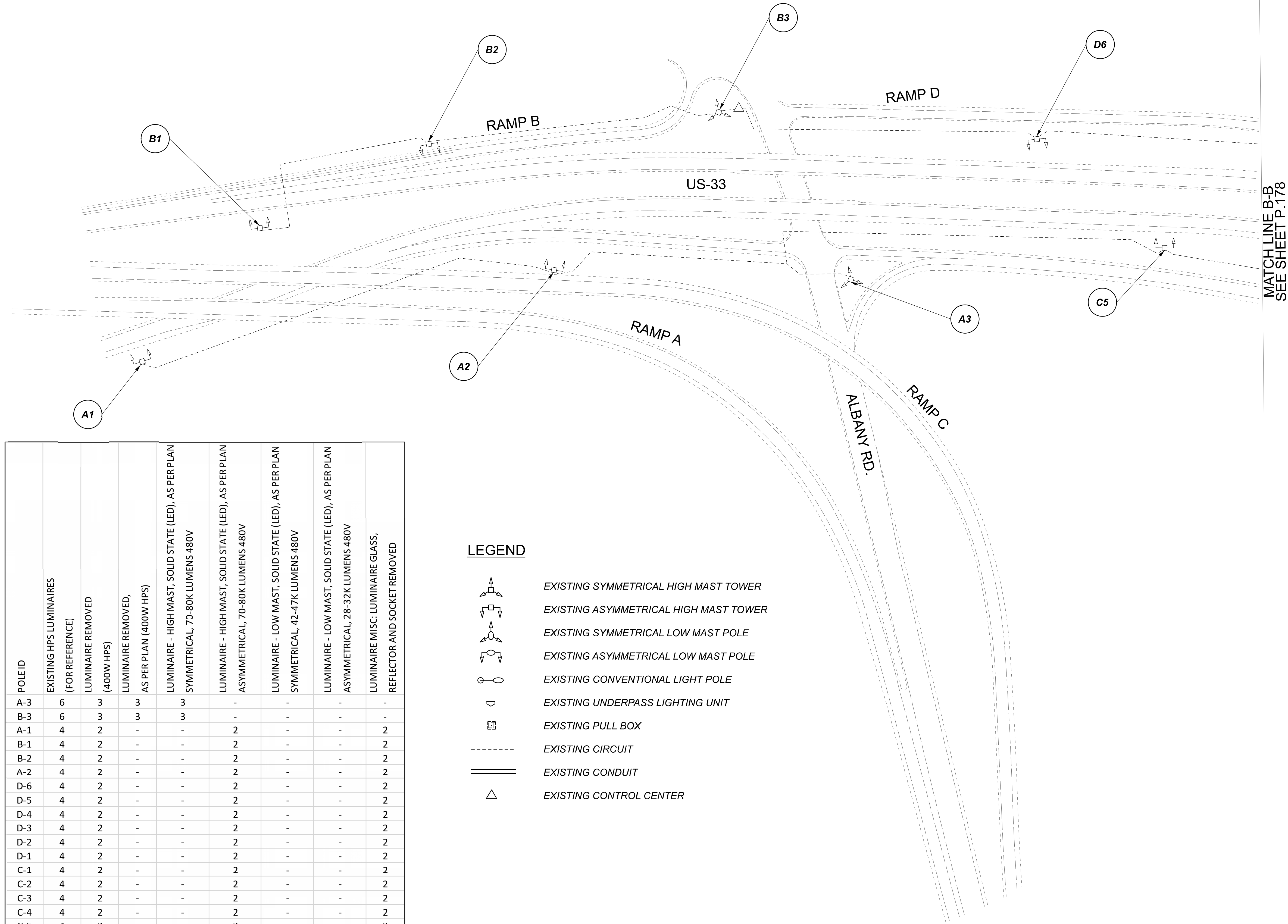
D10-Lighting Upgrade FY2021

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POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	LUMINAIRE - HIGH MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 70-80K LUMENS 480V	LUMINAIRE - HIGH MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 70-80K LUMENS 480V	LUMINAIRE - LOW MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 42-47K LUMENS 480V	LUMINAIRE - LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 28-32K LUMENS 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
A-3	6	3	3	3	-	-	-	-
B-3	6	3	3	3	-	-	-	-
A-1	4	2	-	-	2	-	-	2
B-1	4	2	-	-	2	-	-	2
B-2	4	2	-	-	2	-	-	2
A-2	4	2	-	-	2	-	-	2
D-6	4	2	-	-	2	-	-	2
D-5	4	2	-	-	2	-	-	2
D-4	4	2	-	-	2	-	-	2
D-3	4	2	-	-	2	-	-	2
D-2	4	2	-	-	2	-	-	2
D-1	4	2	-	-	2	-	-	2
C-1	4	2	-	-	2	-	-	2
C-2	4	2	-	-	2	-	-	2
C-3	4	2	-	-	2	-	-	2
C-4	4	2	-	-	2	-	-	2
C-5	4	2	-	-	2	-	-	2

LEGEND

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER



Lighting Plan - Location 58
 US-33 and Richland Road

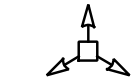
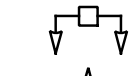
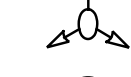



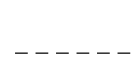
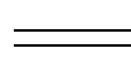
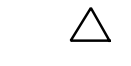

DESIGN AGENCY	
SINGH SINGH & ASSOCIATES, INC. CONSULTING ENGINEERS	
DESIGNER	
VN	
REVIEWER	
SG 03/11/22	
PROJECT ID	
112676	
SUBSET	TOTAL
1	2
SHEET	TOTAL
P.177	197

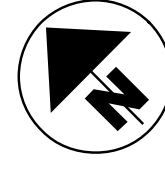
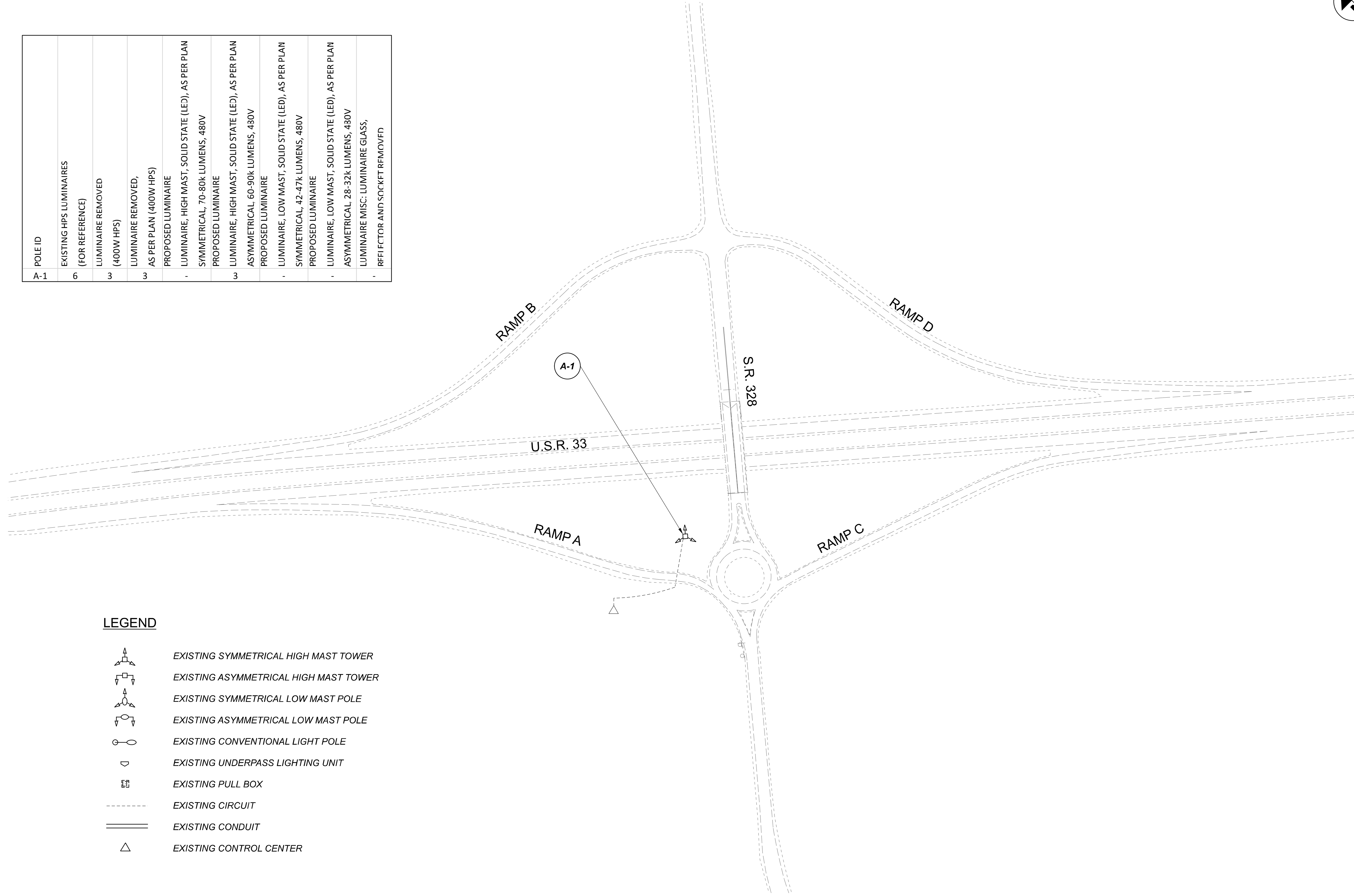
D10-Lighting Upgrade FY2021

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POLE ID	
A-1	EXISTING HPS LUMINAIRES (FOR REFERENCE)
3	LUMINAIRE REMOVED (400W HPS)
3	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)
	PROPOSED LUMINAIRE
1	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 70-80k LUMENS, 480V
3	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 60-90k LUMENS, 480V
	PROPOSED LUMINAIRE
1	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 42-47k LUMENS, 480V
	PROPOSED LUMINAIRE
1	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 28-32k LUMENS, 480V
	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED

LEGEND

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER



Lighting Plan - Location 59
 US-33 and S.R. 328

DESIGN AGENCY



DESIGNER
 VN

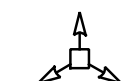
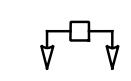
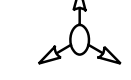
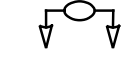
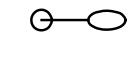
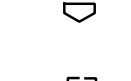

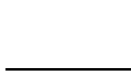


REVIEWER
 SG 03/11/22

PROJECT ID
 112676

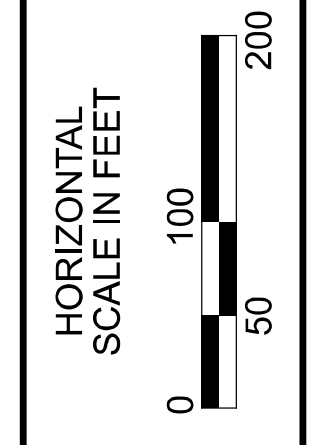
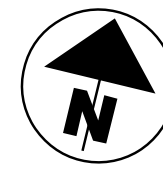
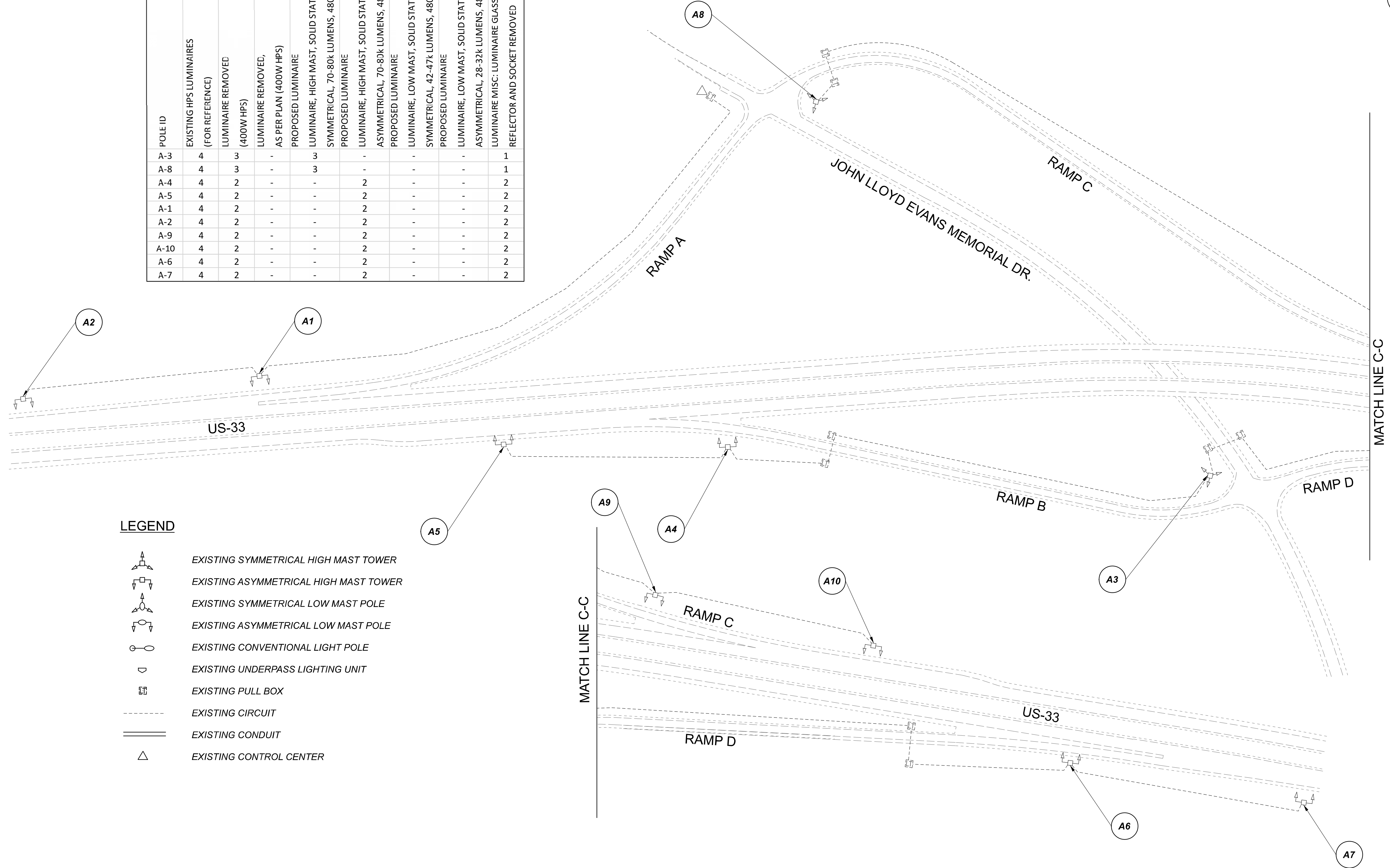
SUBSET	TOTAL
1	1

SHEET	TOTAL
P.179	197

LEGEND

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER

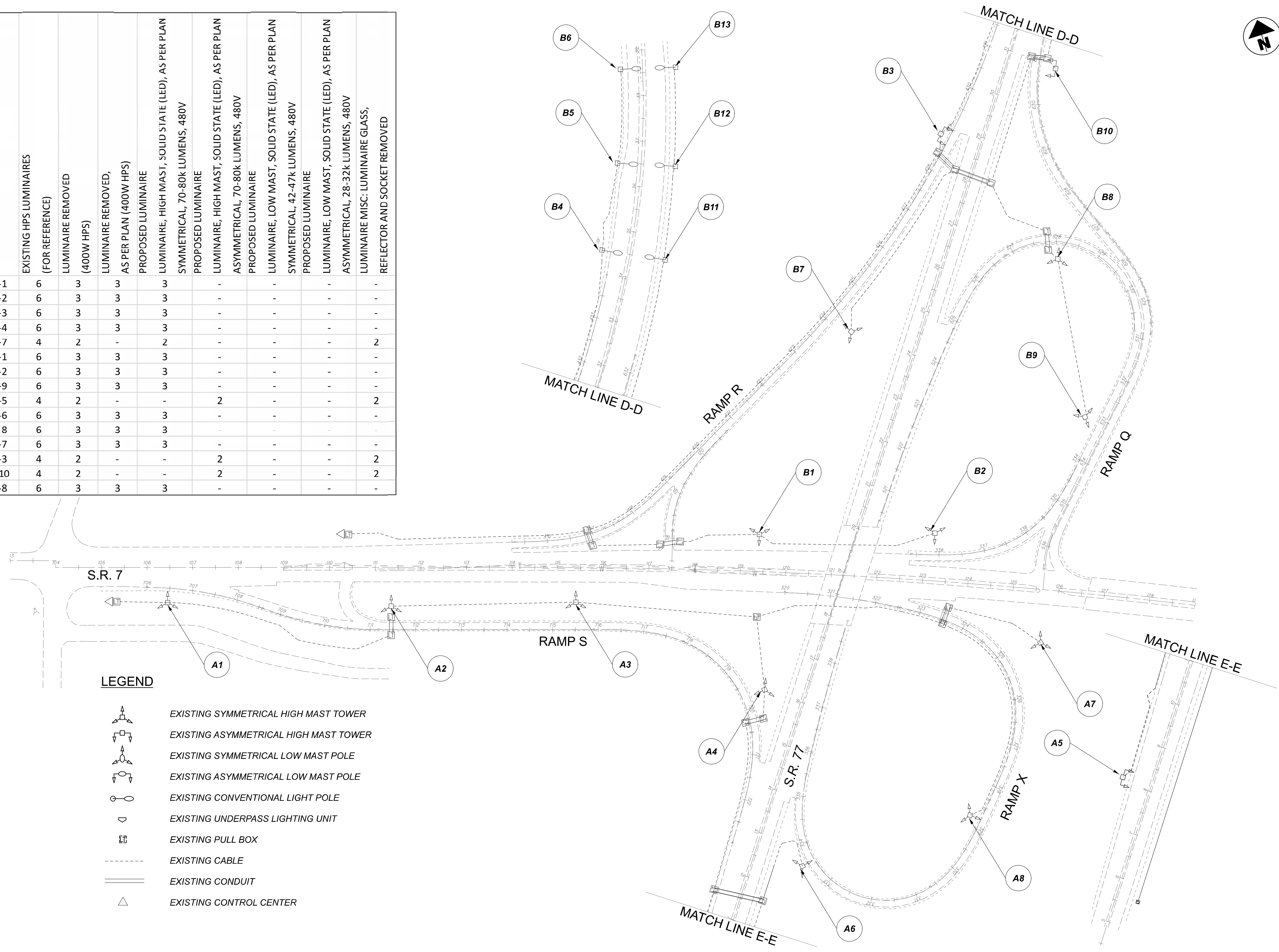
POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 42-47k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 28-32k LUMENS, 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
A-3	4	3	-	3	-	-	-	-	-	-	-	1
A-8	4	3	-	3	-	-	-	-	-	-	-	1
A-4	4	2	-	-	2	-	-	-	-	-	-	2
A-5	4	2	-	-	2	-	-	-	-	-	-	2
A-1	4	2	-	-	2	-	-	-	-	-	-	2
A-2	4	2	-	-	2	-	-	-	-	-	-	2
A-9	4	2	-	-	2	-	-	-	-	-	-	2
A-10	4	2	-	-	2	-	-	-	-	-	-	2
A-6	4	2	-	-	2	-	-	-	-	-	-	2
A-7	4	2	-	-	2	-	-	-	-	-	-	2



Lighting Plan - Location 62
 US-33 and TR 346

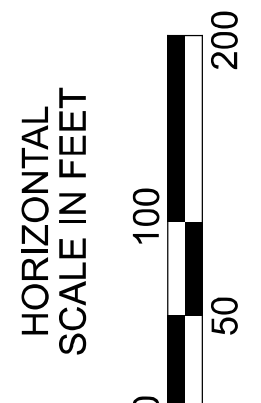
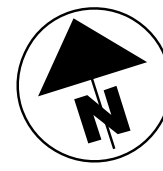
DESIGN AGENCY	
SINGH SINGH + ASSOCIATES, INC. CONSULTING ENGINEERS	
DESIGNER	
VN	
REVIEWER	
SG 03/11/22	
PROJECT ID	
112676	
SUBSET	TOTAL
1	1
SHEET	TOTAL
P.180	197

POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN	SYMMETRICAL, 70-80K LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN	ASYMMETRICAL, 70-80K LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN	ASYMMETRICAL, 28-32k LUMENS, 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
A-1	6	3	3		3								
A-2	6	3	3		3								
A-3	6	3	3		3								
A-4	6	3	3		3								
A-7	4	2	-		2							2	
B-1	6	3	3		3								
B-2	6	3	3		3								
B-9	6	3	3		3								
A-5	4	2	-			2							2
A-6	6	3	3		3								
A-8	6	3	3		3								
B-7	6	3	3		3								
B-3	4	2	-			2							2
B-10	4	2	-			2							2
B-8	6	3	3		3								



LEGEND

- EXISTING SYMMETRICAL HIGH MAST TOWER
- EXISTING ASYMMETRICAL HIGH MAST TOWER
- EXISTING SYMMETRICAL LOW MAST POLE
- EXISTING ASYMMETRICAL LOW MAST POLE
- EXISTING CONVENTIONAL LIGHT POLE
- EXISTING UNDERPASS LIGHTING UNIT
- EXISTING PULL BOX
- EXISTING CABLE
- EXISTING CONDUIT
- EXISTING CONTROL CENTER

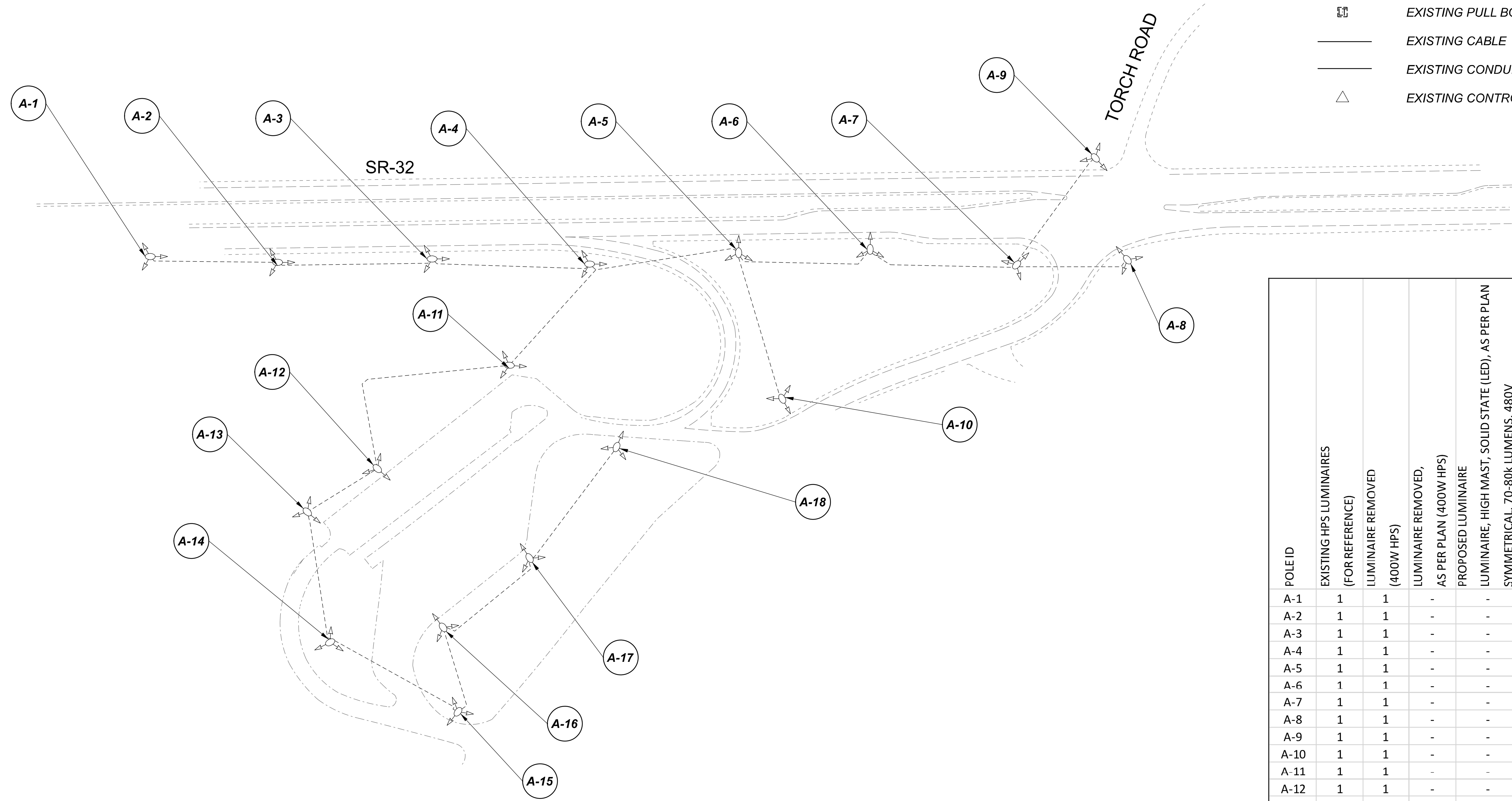


Lighting Plan - Location 63
I-77 and SR-7

DESIGN AGENCY	
SINGH SINGH & ASSOCIATES, INC. CONSULTING ENGINEERS	
DESIGNER	VN
REVIEWER	SG 03/11/22
PROJECT ID	112676
SUBSET	TOTAL
1	1
SHEET	TOTAL
P.181	197

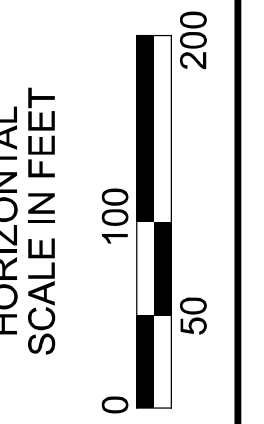
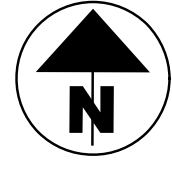
D10-Lighting Upgrade FY2021

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LEGEND

- EXISTING SYMMETRICAL HIGH MAST TOWER
- EXISTING ASYMMETRICAL HIGH MAST TOWER
- EXISTING SYMMETRICAL LOW MAST POLE
- EXISTING ASYMMETRICAL LOW MAST POLE
- EXISTING CONVENTIONAL LIGHT POLE
- EXISTING UNDERPASS LIGHTING UNIT
- EXISTING PULL BOX
- EXISTING CABLE
- EXISTING CONDUIT
- EXISTING CONTROL CENTER



POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 42-47k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 28-32k LUMENS, 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
A-1	1	1	-	-	-	-	-	-	1	-	-	-
A-2	1	1	-	-	-	-	-	-	1	-	-	-
A-3	1	1	-	-	-	-	-	-	1	-	-	-
A-4	1	1	-	-	-	-	-	-	1	-	-	-
A-5	1	1	-	-	-	-	-	-	1	-	-	-
A-6	1	1	-	-	-	-	-	-	1	-	-	-
A-7	1	1	-	-	-	-	-	-	1	-	-	-
A-8	1	1	-	-	-	-	-	-	1	-	-	-
A-9	1	1	-	-	-	-	-	-	1	-	-	-
A-10	1	1	-	-	-	-	-	-	1	-	-	-
A-11	1	1	-	-	-	-	-	-	1	-	-	-
A-12	1	1	-	-	-	-	-	-	1	-	-	-
A-13	1	1	-	-	-	-	-	-	1	-	-	-
A-14	1	1	-	-	-	-	-	-	1	-	-	-
A-15	1	1	-	-	-	-	-	-	1	-	-	-
A-16	1	1	-	-	-	-	-	-	1	-	-	-
A-17	1	1	-	-	-	-	-	-	1	-	-	-
A-18	1	1	-	-	-	-	-	-	1	-	-	-

Lighting Plan - Location 64
Torch Road Rest Area

DESIGN AGENCY



DESIGNER
VN

REVIEWER
SG 03/11/22

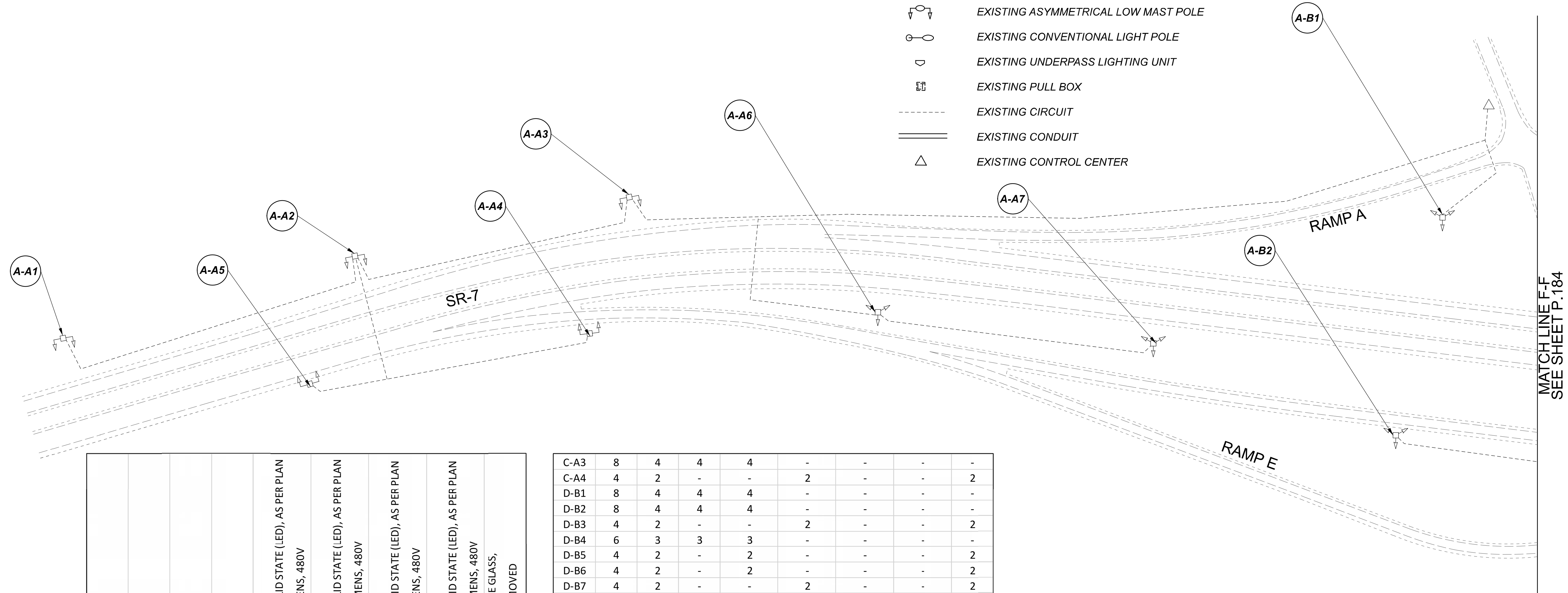
PROJECT ID
112676

SUBSET	TOTAL
1	1

SHEET	TOTAL
P.182	197

D10-Lighting Upgrade FY2021

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POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 70-80k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 42-47k LUMENS, 480V	PROPOSED LUMINAIRE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 28-32k LUMENS, 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
A-A1	4	2	-	-	2	-	-	-	-	-	2	-
A-A2	4	2	-	-	2	-	-	-	-	-	2	-
A-A3	4	2	-	-	2	-	-	-	-	-	2	-
A-A4	4	2	-	-	2	-	-	-	-	-	2	-
A-A5	4	2	-	-	2	-	-	-	-	-	2	-
A-A6	8	4	4	4	-	-	-	-	-	-	-	-
A-A7	8	4	4	4	-	-	-	-	-	-	-	-
A-B1	8	4	4	4	-	-	-	-	-	-	-	-
A-B2	8	4	4	4	-	-	-	-	-	-	-	-
A-B3	8	4	4	4	-	-	-	-	-	-	-	-
B-A1	8	4	4	4	-	-	-	-	-	-	-	-
B-A2	8	4	4	4	-	-	-	-	-	-	-	-
B-A3	8	4	4	4	-	-	-	-	-	-	-	-
B-A4	8	4	4	4	-	-	-	-	-	-	-	-
C-A1	8	4	4	4	-	-	-	-	-	-	-	-
C-A2	8	4	4	4	-	-	-	-	-	-	-	-

C-A3	8	4	4	4	-	-	-	-	-	-	-	-
C-A4	4	2	-	-	2	-	-	-	-	-	2	-
D-B1	8	4	4	4	-	-	-	-	-	-	-	-
D-B2	8	4	4	4	-	-	-	-	-	-	-	-
D-B3	4	2	-	-	2	-	-	-	-	-	2	-
D-B4	6	3	3	3	-	-	-	-	-	-	-	-
D-B5	4	2	-	2	-	-	-	-	-	-	2	-
D-B6	4	2	-	2	-	-	-	-	-	-	2	-
D-B7	4	2	-	-	2	-	-	-	-	-	2	-
D-B8	4	2	-	-	2	-	-	-	-	-	2	-
D-A1	8	4	4	4	-	-	-	-	-	-	-	-
D-A2	1	1	-	-	-	1	-	-	-	-	-	-
D-A3	1	1	-	-	-	1	-	-	-	-	-	-
D-A4	1	1	-	-	-	1	-	-	-	-	-	-
D-A5	1	1	-	-	-	1	-	-	-	-	-	-
D-A6	1	1	-	-	-	1	-	-	-	-	-	-
D-A7	1	1	-	-	-	1	-	-	-	-	-	-
D-A8	1	1	-	-	-	1	-	-	-	-	-	-
D-A9	1	1	-	-	-	1	-	-	-	-	-	-
D-A10	1	1	-	-	-	1	-	-	-	-	-	-
D-A11	1	1	-	-	-	1	-	-	-	-	-	-
D-A12	1	1	-	-	-	1	-	-	-	-	-	-
C-A5	1	1	-	-	-	1	-	-	-	-	-	-
C-A6	1	1	-	-	-	1	-	-	-	-	-	-
C-A7	1	1	-	-	-	1	-	-	-	-	-	-
C-A8	1	1	-	-	-	1	-	-	-	-	-	-
C-A9	1	1	-	-	-	1	-	-	-	-	-	-
C-A10	1	1	-	-	-	1	-	-	-	-	-	-

HORIZONTAL SCALE IN FEET
 0 50 100 200

Lighting Plan - Location 65
 SR-7 and US-50 / SR-339

DESIGN AGENCY
SINGH
 SINGH & ASSOCIATES, INC.
 CONSULTING ENGINEERS

DESIGNER
 VN

REVIEWER
 SG 03/11/22

PROJECT ID
 112676


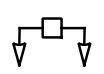

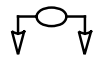
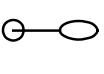



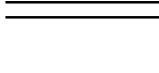

SUBSET	TOTAL
1	3

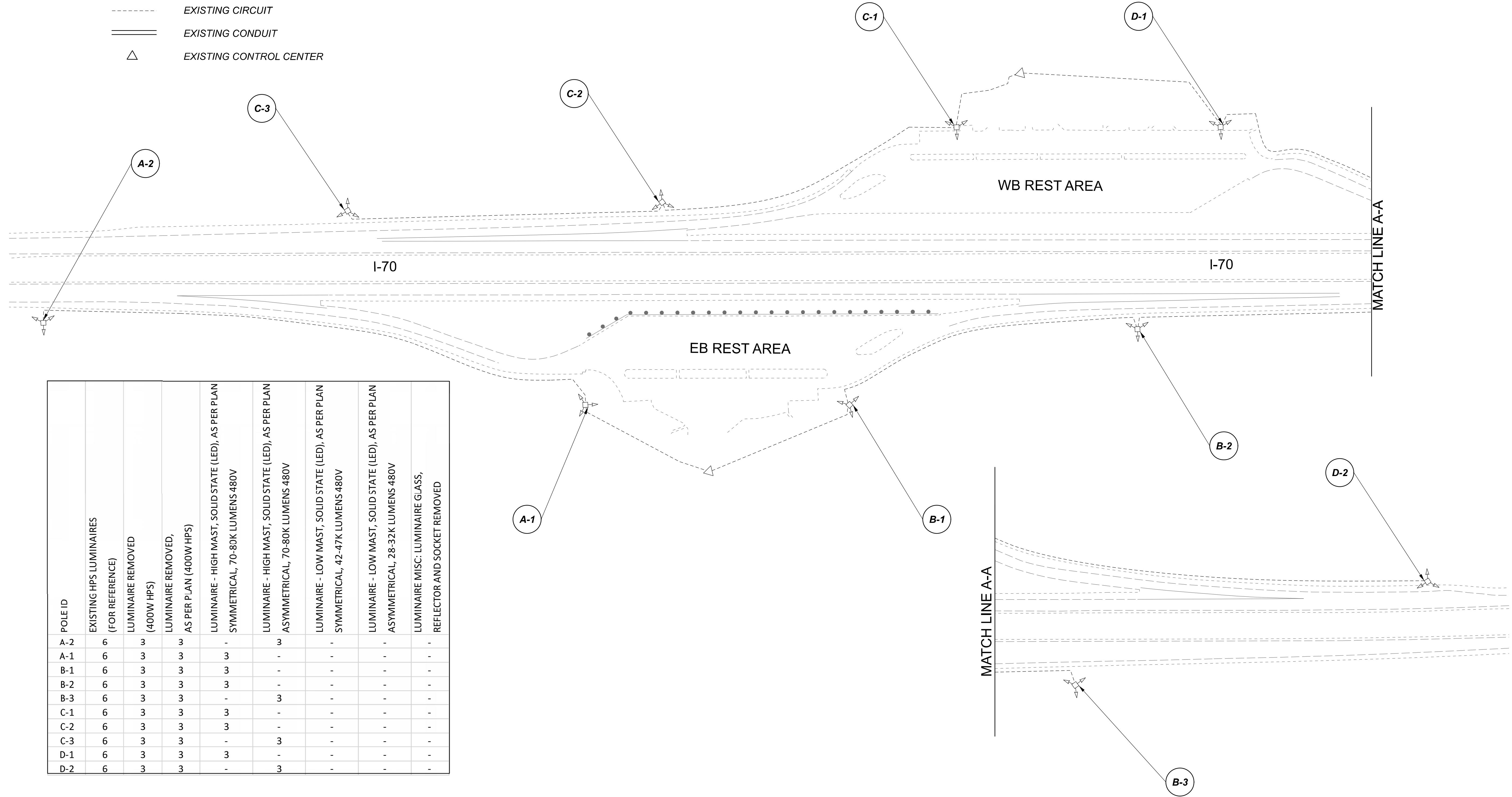
SHEET	TOTAL
P.183	197

D11-Lighting Upgrade FY2021

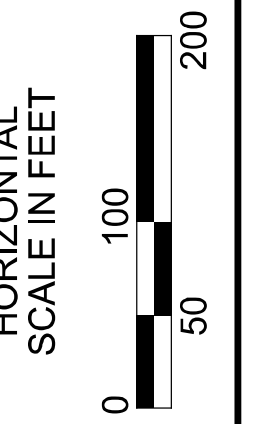
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LEGEND

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER



POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	LUMINAIRE - HIGH MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 70-80K LUMENS 480V	LUMINAIRE - HIGH MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 70-80K LUMENS 480V	LUMINAIRE - LOW MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 42-47K LUMENS 480V	LUMINAIRE - LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 28-32K LUMENS 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
A-2	6	3	3	-	-	-	-	-
A-1	6	3	3	3	-	-	-	-
B-1	6	3	3	3	-	-	-	-
B-2	6	3	3	3	-	-	-	-
B-3	6	3	3	-	3	-	-	-
C-1	6	3	3	3	-	-	-	-
C-2	6	3	3	3	-	-	-	-
C-3	6	3	3	-	3	-	-	-
D-1	6	3	3	3	-	-	-	-
D-2	6	3	3	-	3	-	-	-













Lighting Plan - Locations 66 & 67
 I-70 WB & EB Rest Area

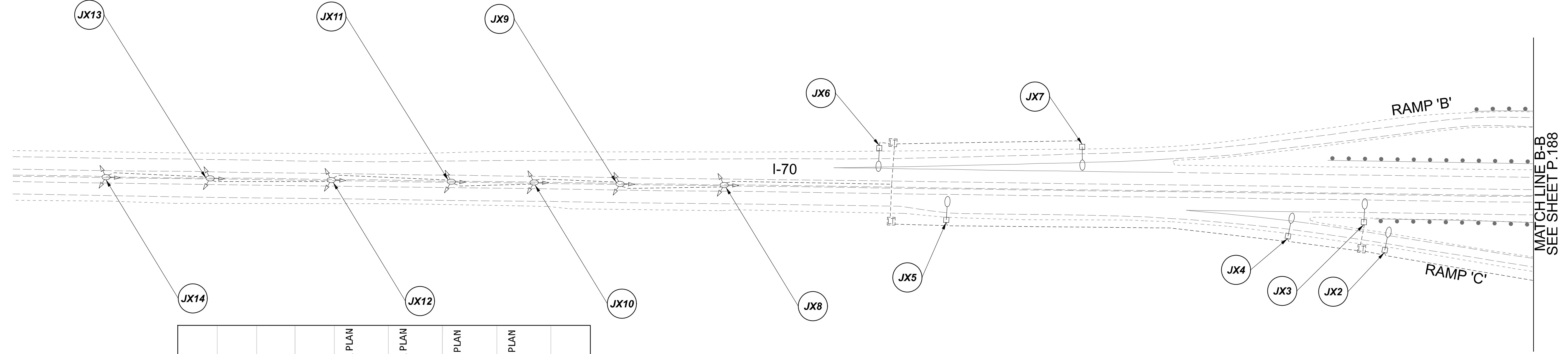
DESIGN AGENCY	
SINGH SINGH & ASSOCIATES, INC. CONSULTING ENGINEERS	
DESIGNER	
VN	
REVIEWER	
SG 03/11/22	
PROJECT ID	
112676	
SUBSET	TOTAL
1	1
SHEET	TOTAL
P.186	197

D11-Lighting Upgrade FY2021

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LEGEND

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER



POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	LUMINAIRE - HIGH MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 70-80K LUMENS 480V	LUMINAIRE - HIGH MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 70-80K LUMENS 480V	LUMINAIRE - LOW MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 42-47K LUMENS 480V	LUMINAIRE - LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 28-32K LUMENS 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
JX14	1	1	-	-	-	1	-	-
JX13	1	1	-	-	-	1	-	-
JX12	1	1	-	-	-	1	-	-
JX11	1	1	-	-	-	1	-	-
JX10	1	1	-	-	-	1	-	-
JX9	1	1	-	-	-	1	-	-
JX8	1	1	-	-	-	1	-	-

Lighting Plan - Location 68
I-70 and S.R. 9

HORIZONTAL SCALE IN FEET
0 50 100 200

DESIGN AGENCY

SINGH
SINGH + ASSOCIATES, INC.
CONSULTING ENGINEERS

DESIGNER: VN

REVIEWER: SG 03/11/22

PROJECT ID: 112676

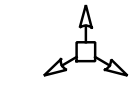
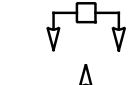
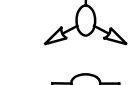




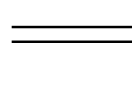


SUBSET	TOTAL
1	2

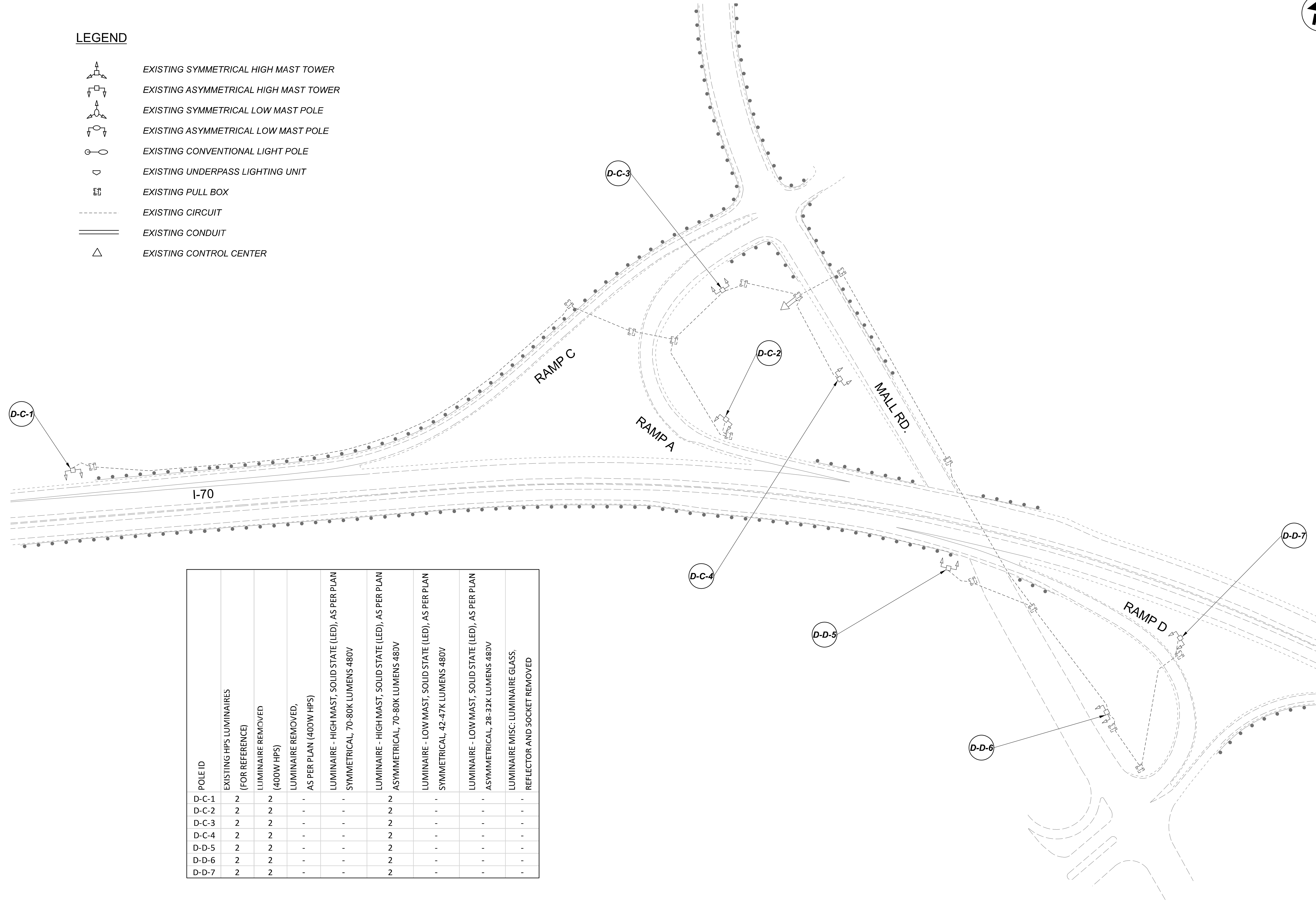
SHEET	TOTAL
P.187	197

D11-Lighting Upgrade FY2021

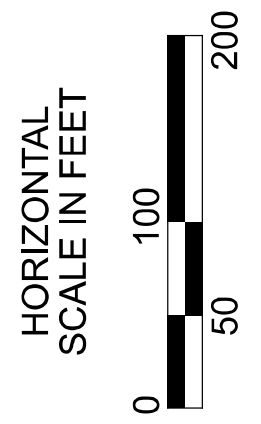
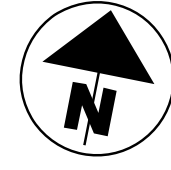
MODEL SHEET PAPER SIZE: 34x22 (in.) DATE: 3/10/2022 TIME: 14:32:41 PM USER: vnlunez
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LEGEND

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER



POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	LUMINAIRE - HIGH MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 70-80K LUMENS 480V	LUMINAIRE - HIGH MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 70-80K LUMENS 480V	LUMINAIRE - LOW MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 42-47K LUMENS 480V	LUMINAIRE - LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 28-32K LUMENS 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
D-C-1	2	2	-	-	2	-	-	-
D-C-2	2	2	-	-	2	-	-	-
D-C-3	2	2	-	-	2	-	-	-
D-C-4	2	2	-	-	2	-	-	-
D-D-5	2	2	-	-	2	-	-	-
D-D-6	2	2	-	-	2	-	-	-
D-D-7	2	2	-	-	2	-	-	-



Lighting Plan - Location 69
I-70 and Mall Road

DESIGN AGENCY



DESIGNER
VN


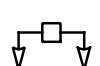

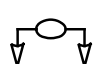
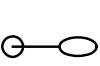


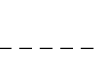
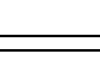

REVIEWER
SG 03/11/22

PROJECT ID
112676

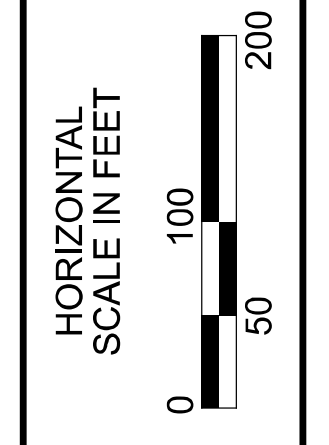
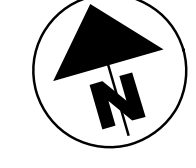
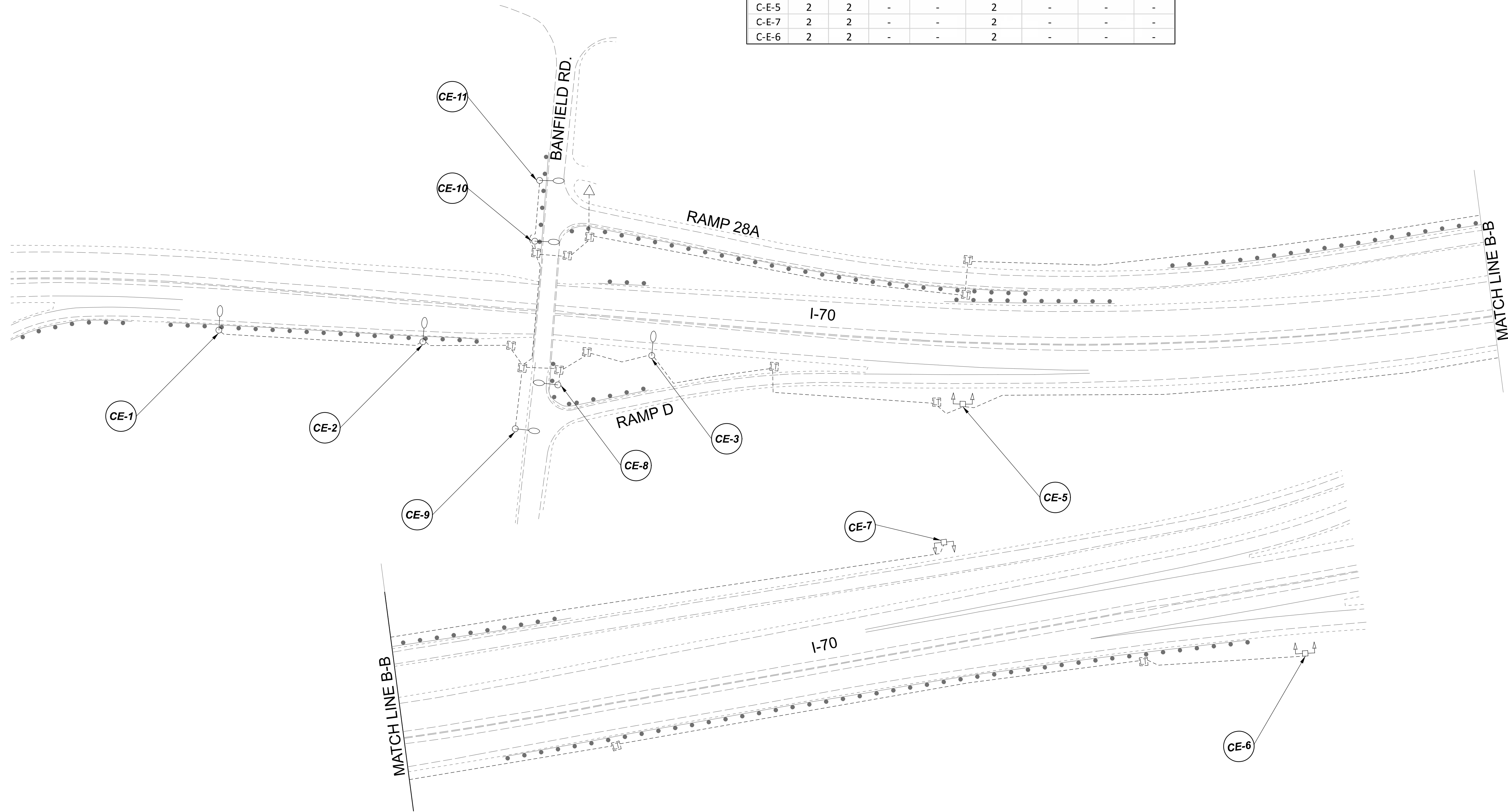
SUBSET	TOTAL
1	1

SHEET	TOTAL
P.189	197

LEGEND

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER








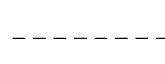
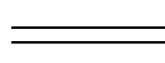

POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	LUMINAIRE - HIGH MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 70-80K LUMENS 480V	LUMINAIRE - HIGH MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 70-80K LUMENS 480V	LUMINAIRE - LOW MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 42-47K LUMENS 480V	LUMINAIRE - LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 28-32K LUMENS 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
C-E-5	2	2	-	-	2	-	-	-
C-E-7	2	2	-	-	2	-	-	-
C-E-6	2	2	-	-	2	-	-	-



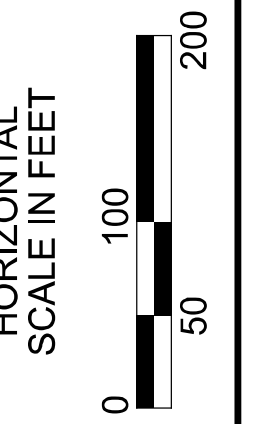
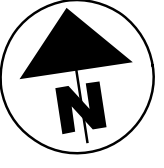
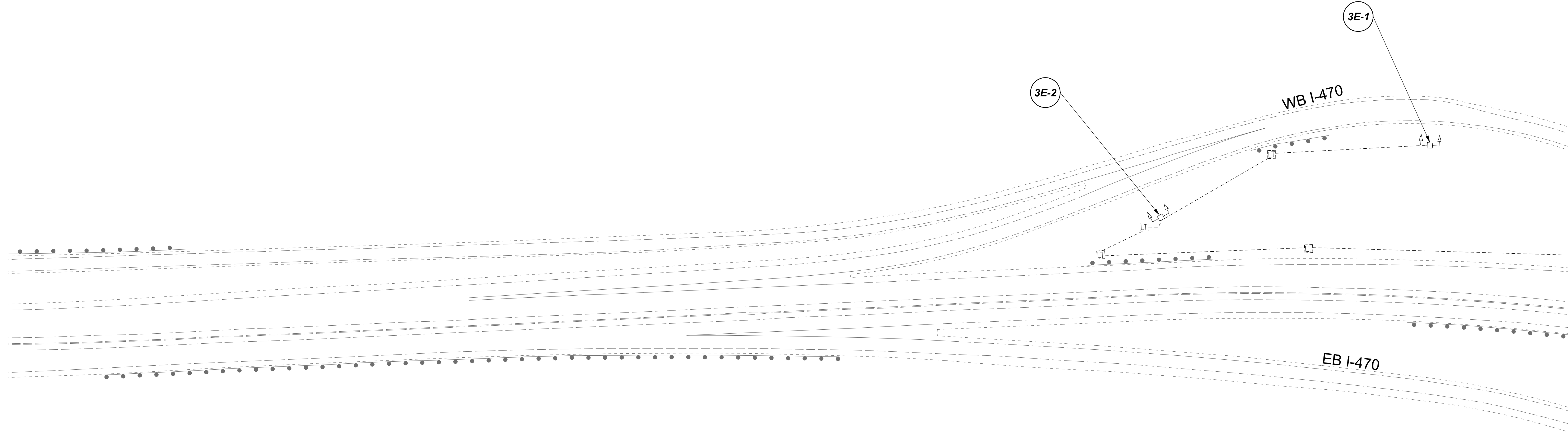
Lighting Plan - Location 70
 I-70 and Banfield Road

DESIGN AGENCY	
SINGH SINGH & ASSOCIATES, INC. CONSULTING ENGINEERS	
DESIGNER	
VN	
REVIEWER	
SG 03/11/22	
PROJECT ID	
112676	
SUBSET	TOTAL
1	1
SHEET	
P.190	
TOTAL	
197	

LEGEND

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER

POLE ID	LUMINAIRE REMOVED 1000W HPS	LUMINAIRE - HIGH MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 70-80K LUMENS 480V	LUMINAIRE - HIGH MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 70-80K LUMENS 480V	LUMINAIRE - LOW MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 42-47K LUMENS 480V	LUMINAIRE - LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 28-32K LUMENS 480V	LUMINAIRE GLASS, REFLECTOR, AND SOCKET REMOVED
3-E-1	2	-	2	-	-	-
3-E-2	2	-	2	-	-	-
3-E-3	2	-	2	-	-	-



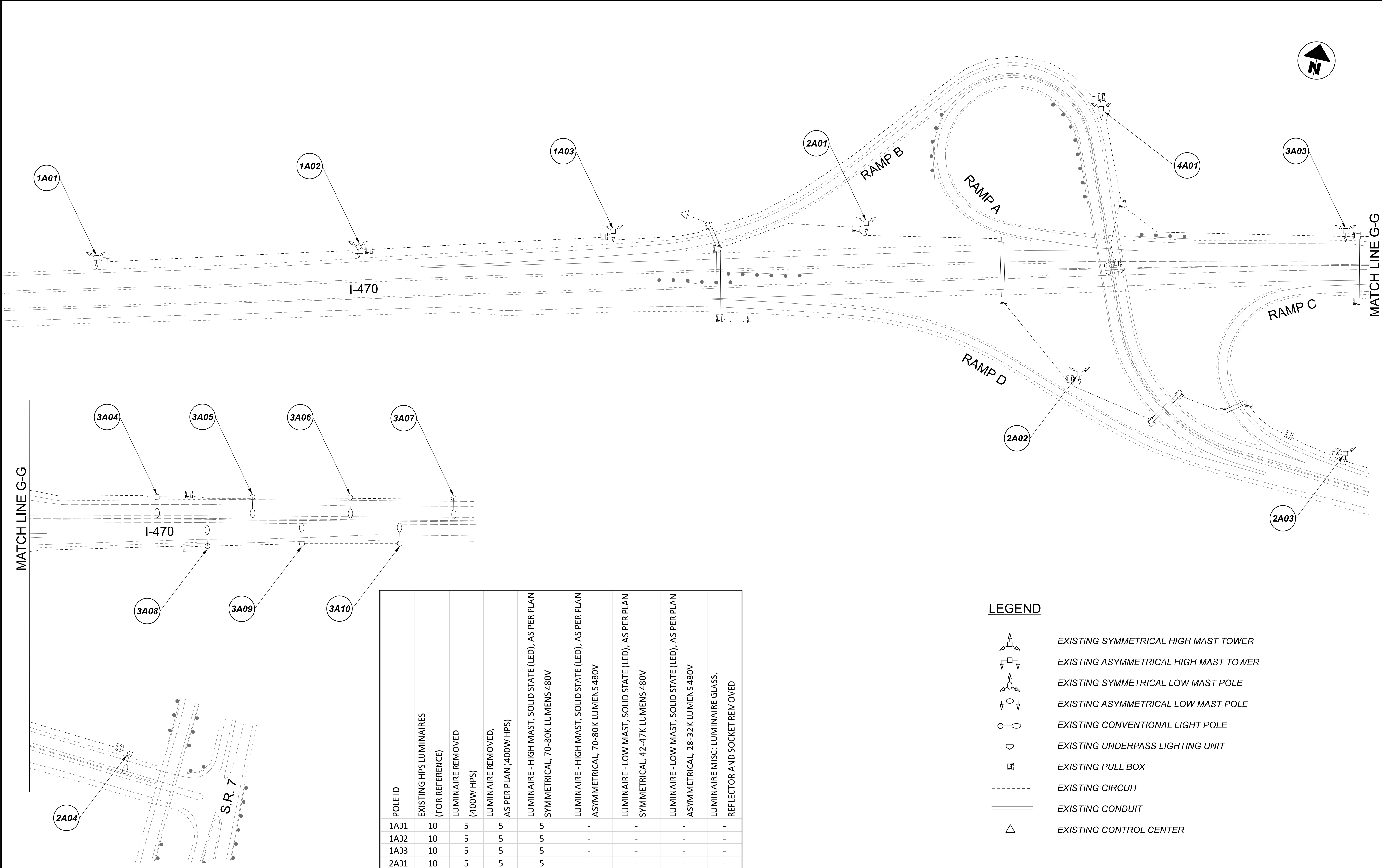
MATCHLINE D-D
SEE SHEET P.192

Lighting Plan - Location 71
I-70 and I-470

DESIGN AGENCY	
SINGH <small>SINGH + ASSOCIATES, INC. CONSULTING ENGINEERS</small>	
DESIGNER	
VN	
REVIEWER	
SG 03/11/22	
PROJECT ID	
112676	
SUBSET	TOTAL
1	3
SHEET	TOTAL
P.191	197

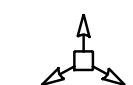
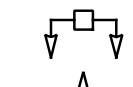
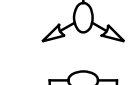
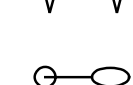






D11-Lighting Upgrade FY2021

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POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	LUMINAIRE - HIGH MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 70-80K LUMENS 480V	LUMINAIRE - HIGH MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 70-80K LUMENS 480V	LUMINAIRE - LOW MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 42-47K LUMENS 480V	LUMINAIRE - LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 28-32K LUMENS 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
1A01	10	5	5	5	-	-	-	-
1A02	10	5	5	5	-	-	-	-
1A03	10	5	5	5	-	-	-	-
2A01	10	5	5	5	-	-	-	-
4A01	10	5	5	5	-	-	-	-
2A02	10	5	5	5	-	-	-	-
3A03	10	5	5	5	-	-	-	-
2A03	10	5	5	5	-	-	-	-

LEGEND

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER

Lighting Plan - Location 72
I-470 and S.R. 7

DESIGN AGENCY

 SINGH + ASSOCIATES, INC.
 CONSULTING ENGINEERS

DESIGNER
VN

REVIEWER
SG 03/11/22

PROJECT ID
112676

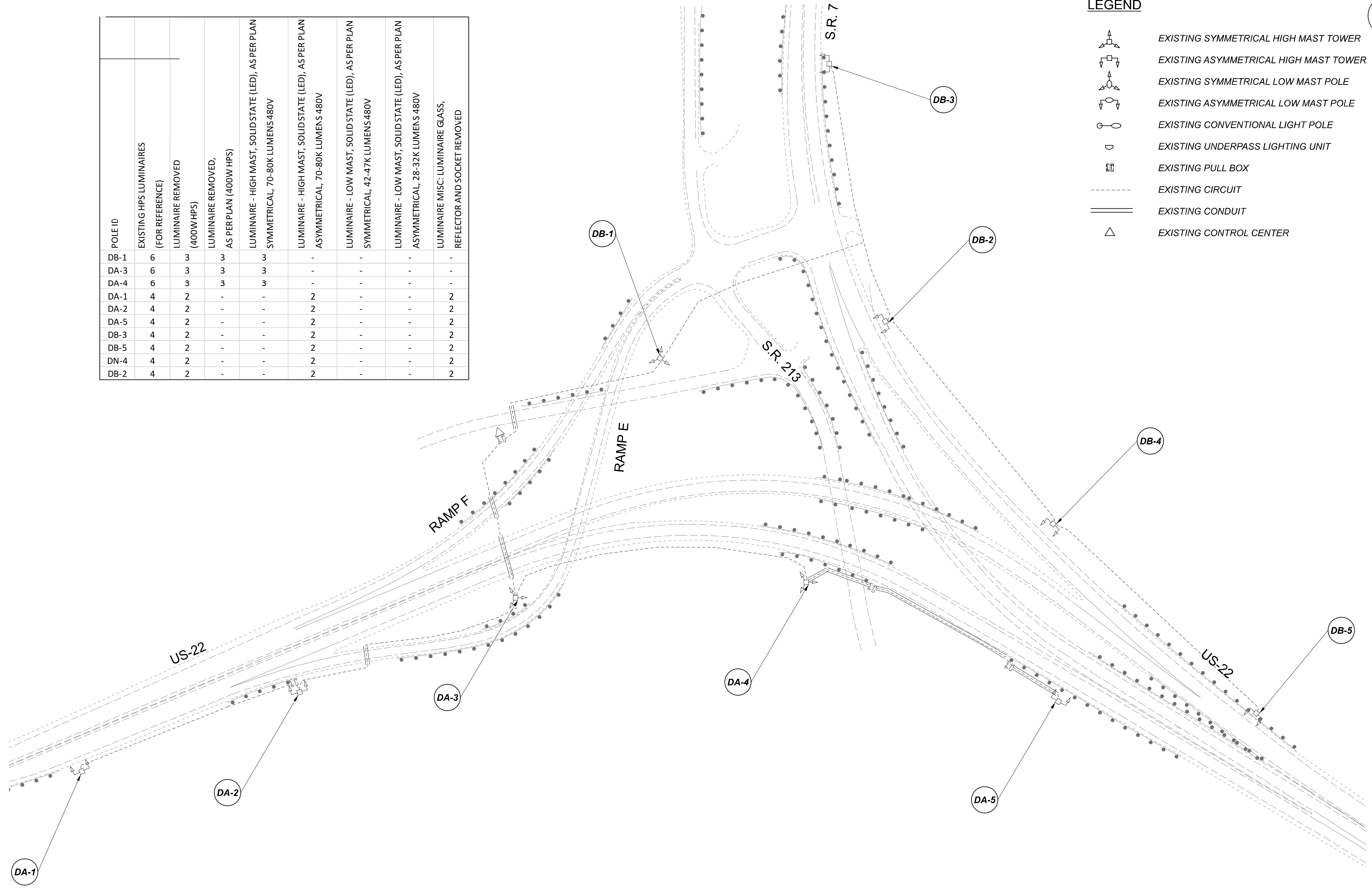
SUBSET	TOTAL
1	1

SHEET	TOTAL
P.194	197

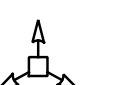
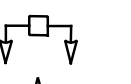
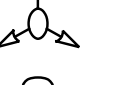
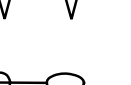






D11-Lighting Upgrade FY2021

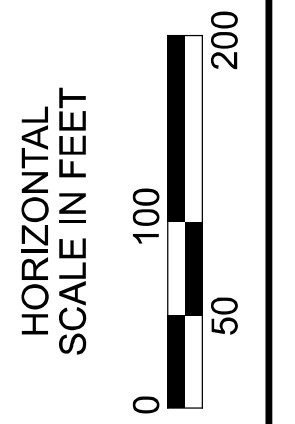
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POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	LUMINAIRE - HIGH MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 70-80K LUMENS 480V	LUMINAIRE - HIGH MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 70-80K LUMENS 480V	LUMINAIRE - LOW MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 42-47K LUMENS 480V	LUMINAIRE - LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 28-32K LUMENS 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
DB-1	6	3	3	3	-	-	-	-
DA-3	6	3	3	3	-	-	-	-
DA-4	6	3	3	3	-	-	-	-
DA-1	4	2	-	-	2	-	-	2
DA-2	4	2	-	-	2	-	-	2
DA-5	4	2	-	-	2	-	-	2
DB-3	4	2	-	-	2	-	-	2
DB-5	4	2	-	-	2	-	-	2
DN-4	4	2	-	-	2	-	-	2
DB-2	4	2	-	-	2	-	-	2



LEGEND

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER



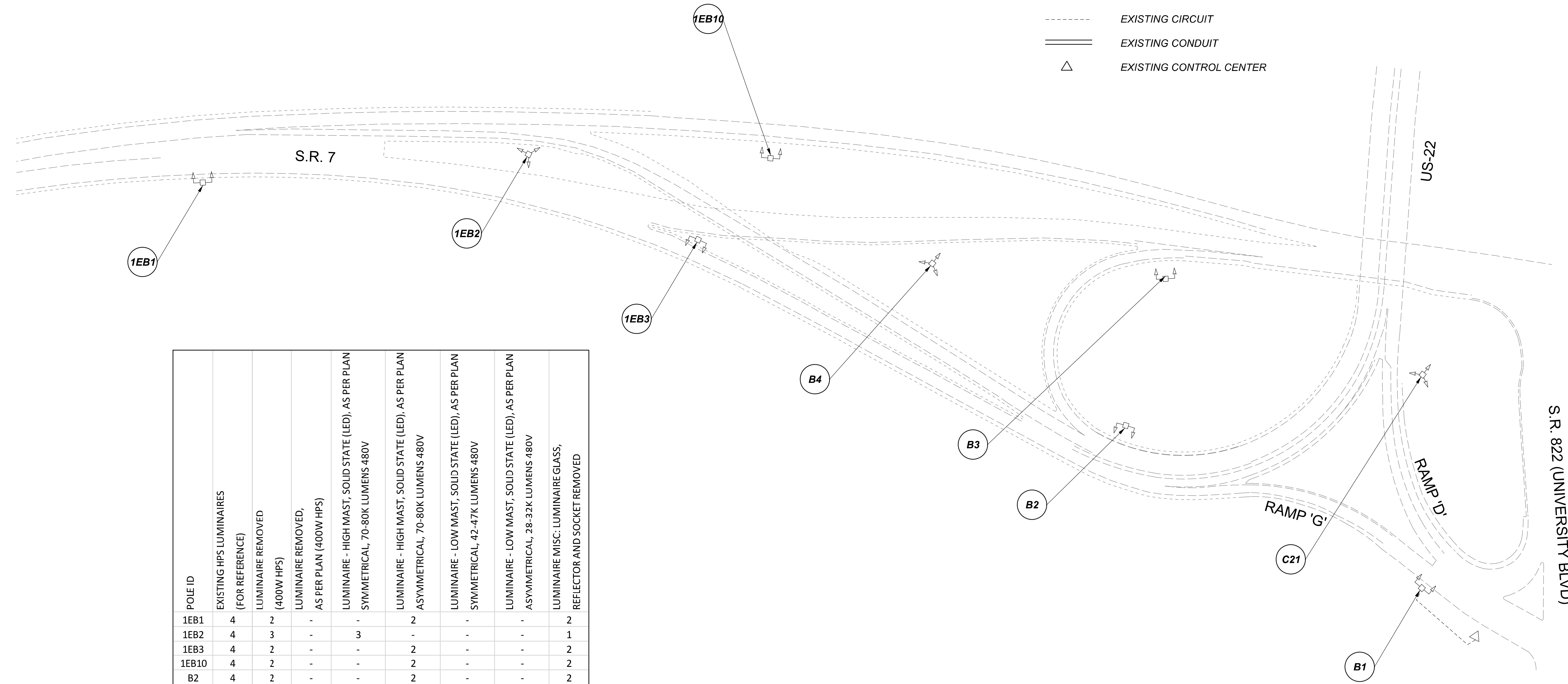
Lighting Plan - Locations 73 & 74
 US-22 and S.R. 7 Overlap

DESIGN AGENCY	
SINGH SINGH & ASSOCIATES, INC. CONSULTING ENGINEERS	
DESIGNER	
VN	
REVIEWER	
SG 03/11/22	
PROJECT ID	
112676	
SUBSET	TOTAL
1	1
SHEET	TOTAL
P.195	197

D11-Lighting Upgrade FY2021

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POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	LUMINAIRE - HIGH MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 70-80K LUMENS 480V	LUMINAIRE - HIGH MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 70-80K LUMENS 480V	LUMINAIRE - LOW MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 42-47K LUMENS 480V	LUMINAIRE - LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 28-32K LUMENS 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
1EB1	4	2	-	-	-	-	-	2
1EB2	4	3	-	3	-	-	-	1
1EB3	4	2	-	-	2	-	-	2
1EB10	4	2	-	-	2	-	-	2
B2	4	2	-	-	2	-	-	2
B3	4	2	-	-	2	-	-	2
B4	6	3	3	3	-	-	-	-
B1	4	2	-	-	2	-	-	2
C21	6	3	3	-	3	-	-	-



DESIGN AGENCY

SINGH
 SINGH + ASSOCIATES, INC.
 CONSULTING ENGINEERS

DESIGNER
 VN

REVIEWER
 SG 03/11/22

PROJECT ID
 112676

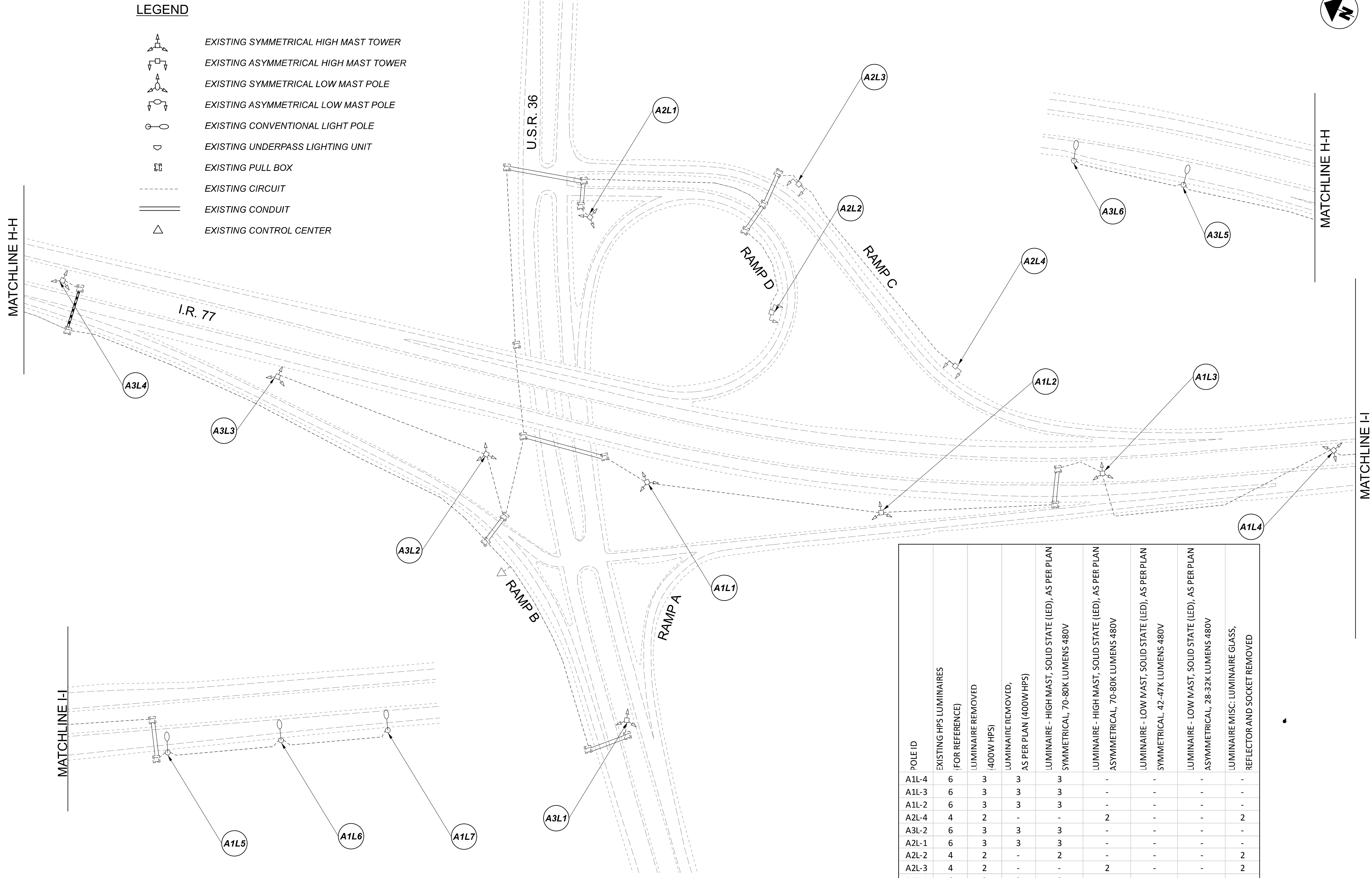
SUBSET	TOTAL
1	1

SHEET	TOTAL
P.196	197


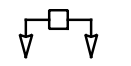
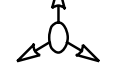
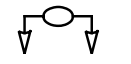
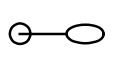


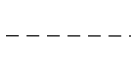
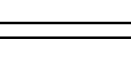

Lighting Plan - Location 75
 US-22 and S.R. 7 (Veterans Memorial Bridge)

D11-Lighting Upgrade FY2021

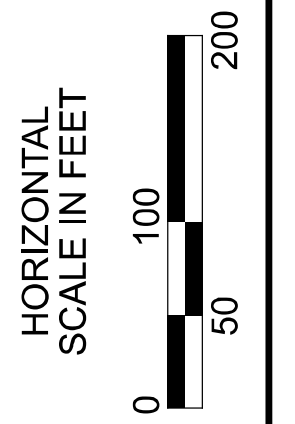
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LEGEND

-  EXISTING SYMMETRICAL HIGH MAST TOWER
-  EXISTING ASYMMETRICAL HIGH MAST TOWER
-  EXISTING SYMMETRICAL LOW MAST POLE
-  EXISTING ASYMMETRICAL LOW MAST POLE
-  EXISTING CONVENTIONAL LIGHT POLE
-  EXISTING UNDERPASS LIGHTING UNIT
-  EXISTING PULL BOX
-  EXISTING CIRCUIT
-  EXISTING CONDUIT
-  EXISTING CONTROL CENTER

POLE ID	EXISTING HPS LUMINAIRES (FOR REFERENCE)	LUMINAIRE REMOVED (400W HPS)	LUMINAIRE REMOVED, AS PER PLAN (400W HPS)	LUMINAIRE - HIGH MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 70-80K LUMENS 480V	LUMINAIRE - HIGH MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 70-80K LUMENS 480V	LUMINAIRE - LOW MAST, SOLID STATE (LED), AS PER PLAN SYMMETRICAL, 42-47K LUMENS 480V	LUMINAIRE - LOW MAST, SOLID STATE (LED), AS PER PLAN ASYMMETRICAL, 28-32K LUMENS 480V	LUMINAIRE MISC: LUMINAIRE GLASS, REFLECTOR AND SOCKET REMOVED
A1L-4	6	3	3	3	-	-	-	-
A1L-3	6	3	3	3	-	-	-	-
A1L-2	6	3	3	3	-	-	-	-
A2L-4	4	2	-	-	2	-	-	2
A3L-2	6	3	3	3	-	-	-	-
A2L-1	6	3	3	3	-	-	-	-
A2L-2	4	2	-	2	-	-	-	2
A2L-3	4	2	-	-	2	-	-	2
A1L-1	6	3	3	3	-	-	-	-
A3L-1	6	3	3	3	-	-	-	-
A3L-3	6	3	3	3	-	-	-	-
A3L-4	6	3	3	3	-	-	-	-



Lighting Plan - Location 76
I-77 and US-36

DESIGN AGENCY	
SINGH SINGH & ASSOCIATES, INC. CONSULTING ENGINEERS	
DESIGNER	
VN	
REVIEWER	
SG 03/11/22	
PROJECT ID	
112676	
SUBSET	TOTAL
1	1
SHEET	TOTAL
P.197	197