

LOCATION MAP

DESIGN DESIGNATION

N/A

DESIGN EXCEPTIONS

NONE REQUIRED

ADA DESIGN WAIVERS

NONE REQUIRED



STATE OF OHIO DEPARTMENT OF TRANSPORTATION



INDEX

TITLE DISTR DISTR DISTR DISTR DISTR LIGH MOT GENE



	STANDARD	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				

Upgrade Lighting

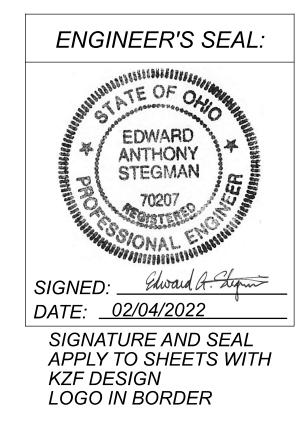
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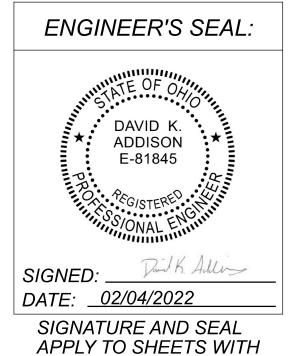
FY202

Lighting Optimization SE Ohio

D05 LIGHTING SUB-SUMMARY

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JOHNSON, MIRMIRAN, & THOMPSON INC. LOGO IN BORDER

NONE

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.

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

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.

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.

FEDERAL PROJECT NUMBER

NON-FEDERAL

RAILROAD INVOLVEMENT

PROJECT DESCRIPTION

EARTH DISTURBED AREAS

LIMITED ACCESS

2019 SPECIFICATIONS

Joson Z Stugen APPROVEL DATE _2/3/2022 DISTRICT 5 DEPUTY DIRECTOR

9 C 25 APPROVED. DATE 2/4/22 DISTRICT 6 DEPUTY DIRECTOR

APPROVED Wichs Holling

DATE 02/04/2022 DISTRICT 9 DEPUTY DIRECTOR

APPROVED Darla Miller

DATE 2/4/2022 DISTRICT 10 DEPUTY DIRECTOR

APPROVED. DATE2/4/2022 DISTRICT 11 DEPUTY DIRECTOR

APPROVED Sall Manages DATE 3/21/22 DIRECTOR, DEPARTMENT OF

TRANSPORTATION

DESIGN AG	IENCY								
SINGH + ASSOCIATES, INC CONSULTING ENGINEERS									
DESIGNER									
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L									
REV	IEWER								
	IEWER 01/07/22								
	01/07/22								
SG PROJECT I	01/07/22								
SG PROJECT I	01/07/22								

ITEM 625, REPAIR INTEGRAL LUMINAIRE LOWERING MECHANISM OF TOWER LIGHTING FIXTURE, AS PER PLAN (A) THIS ITEM SHALL CONSIST OF REPLACING GALVANIZED LOWERING CABLES WITH STAINLESS STEEL FOR HIGH MAST LIGHTING TOWERS WITH FUNCTIONAL LOWERING DEVICES AS IDENTIFIED IN THE PLANS OR BY DISTRICT PERSONNEL.

THE CONTRACTOR SHALL CONTACT HOLOPHANE FOR THE RECOMMENDED PROCEDURE TO REPLACE THE LOWERING CABLES EACH TOWER HAS THREE CABLES THAT WILL BE REPLACED. THE CONTRACTOR CREW LEADER SHALL BE PRESENT DURING ALL CABLE REPLACEMENTS INCLUDING THE REPLACEMENTS WITH A HOLOPHANE REPRESENTATIVE PRESENT.

AFTER INSTALLATION. THE LOWERING CABLES SHALL BE TESTED ACCORDING TO 625.19E WITH AN ODOT REPRESENTATIVE PRESENT. THE CONTRACTOR SHALL CORRECT ANY DEFICIENCIES FOUND DURING TESTING.

PAYMENT FOR THIS ITEM WILL BE MADE AT THE CONTRACT UNIT PRICE PER EACH TOWER AND SHALL INCLUDE ALL LABOR AND EQUIPMENT REQUIRED TO PERFORM THIS ITEM OF WORK AS DESCRIBED ABOVE.

ITEM 625, REPAIR INTEGRAL LUMINAIRE LOWERING MECHANISM OF TOWER LIGHTING FIXTURE, AS PER PLAN (B)

THIS ITEM SHALL CONSIST OF REPLACING GALVANIZED LOWERING CABLES WITH STAINLESS STEEL FOR HIGH MAST LIGHTING TOWERS WITH **NON-FUNCTIONAL** LOWERING DEVICES THAT WILL REQUIRE THE TOWER TO BE LAID DOWN IN ORDER TO REPLACE CABLES AS IDENTIFIED IN THE PLANS OR BY DISTRICT PERSONNEL.

ALL REQUIREMENTS STATED IN "ITEM 625, REPAIR INTEGRAL LUMINAIRE LOWERING MECHANISM OF TOWER LIGHTING FIXTURE. AS PER PLAN (A)" SHALL APPLY.

PAYMENT FOR THIS ITEM WILL BE MADE AT THE CONTRACT UNIT PRICE PER EACH TOWER AND SHALL INCLUDE ALL LABOR AND EQUIPMENT REQUIRED TO PERFORM THIS ITEM OF WORK AS DESCRIBED ABOVE.

ITEM 625 - LIGHTING. MISC.: HOLOPHANE FIELD REPRESENTATIVE THIS ITEM SHALL CONSIST OF THE PRESENCE OF A HOLOPHANE FIELD REPRESENTATIVE. THE HOLOPHANE FIELD REP SHALL BE PRESENT FOR THE FIRST TWO DAYS OF LOWERING CABLE REPLACEMENT. THE FIELD REP SHALL VERIFY THE PROPER PROCEDURE IS BEING FOLLOWED BY THE CONTRACTOR. PAYMENT FOR THIS ITEM SHALL BE MADE AT THE CONTRACT UNIT PRICE PER EACH DAY.

DISTRICT 5 (06/ERD/OT) - 20 HOUR DISTRICT 10 (09/ERD/OT) - 20 HOUR DISTRICT 11 (10/ERD/OT) - 20 HOUR

ITEM 625. LIGHTING. MISC.: TOWER LIFT CABLE INSPECTION AND LUBRICATION

THIS ITEM CONSISTS OF EXPOSING. INSPECTING. AND LUBRICATING A PARTICULARLY CORROSION-PRONE AREA OF CERTAIN HIGH MAST TOWER LIFT CABLES, EXPECIALLY THOSE THAT USE GALVANIZED LIFT CABLES THAT RUN THROUGH A GUIDE TUBE WHEN THEY PASS THROUGH THE HOLLOW AXIS OF THE CENTERING ARMS. THIS PARTICULAR METHOD OF LIFT CABLE CONSTRUCTION IS MOST COMMON IN HOLOPHANE BRAND LOWERING DEVICES. THE BRAND OF MANUFACTURE IS OFTEN PRESENTED ON A SMALL ALUMINUM TAG ATTACHED TO THE HOISTING WINCH GEARBOX.

THE CONTRACTOR MAY USE FACTORY-AUTHORIZED INSPECTION PROCEDURE, THE CONTRACTOR'S OWN ESTABLISHED AND DOCUMENTED INSPECTION PROCEDURE (WITH WRITTEN APPROVAL OF THE ENGINEER), OR THE WRITTEN PROCEDURE BELOW.

IT IS RECOMMENDED THAT THIS INSPECTION BE PERFORMED PRIOR TO INSTALLING NEW LED LUMINAIRES. IN CASE A SIGNIFICANT CABLE ISSUE IS FOUND AND THE ENGINEER DETERMINES THAT THE RING SHOULD NOT BE RAISED

BELOW IS THE ODOT OFFICE OF ROADWAY ENGINEERING RECOMMENDED INSPECTION PROCEDURE TO CHECK FOR CORROSION AND SECTION LOSS IN THE GUIDE TUBE PORTION OF GALVANIZED WIRE ROPE LIFT CABLES ON HOLOPHANE LOWERING DEVICES (TYPICALLY MODEL LD05). THIS INSPECTION PROCEDURE ALSO INCLUDES ROUTINE LIFT CABLE LUBRICATION GUIDANCE.

- REACHES A GOOD WORKING HEIGHT.
- 2 WORKING HEIGHT.
- 3. ROPE THE END LOOP COILS IF NECESSARY.
- 4. CAN BE PULLED DOWN BELOW THE RING.

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CABLES.

AΜ Upgrade Lighting

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1. LOWER THE DEVICE. STAND WELL BACK FROM THE TOWER BASE FOR SAFETY, IN CASE THE RING FALLS. THIS IS A GENERAL SAFETY REQUIREMENT FOR ALL HIGH MAST TOWER LD OPERATIONS. STOP LOWERING WHEN THE RING

CRIB UP THE DEVICE WITH A CAGE OR STILTS MADE FROM 2 X 4S. LARGE JACK STANDS. ETC. WITH THE RING AT A GOOD

AFTER THE RING IS CRIBBED. START ADDING SMALL AMOUNTS OF SLACK TO THE WIRE ROPE ASSEMBLY WHILE PULLING DOWN ON THE ENDS OF THE LIFT CABLES WHERE THE STRAND VISE IS ATTACHED. MAINTAIN CONSTANT TENSION IN THE LIFT CABLES. THIS IS BEST DONE WITH 2-3 HELPERS PULLING THE CABLES DOWN, OR POSSIBLY BY ATTACHING WEIGHTS TO WIRE

CONTINUE EXPOSING THE ENDS OF THE WIRE ROPE UNTIL THE ENTIRE PORTION THAT IS NORMALLY HIDDEN INSIDE THE AXIS OF THE GUIDE ARM MECHANISM IS EXPOSED. ABOUT 18-24 INCHES. BE AWARE THAT AT SOME POINT THE TRANSITION PLATE MAY HIT THE TOP OF THE TOWER. AT WHICH POINT NO MORE WIRE ROPE

KEEP A CLOSE EYE ON THE DRUM CABLE. IF THE DRUM CABLE STARTS TO GO SLACK, BE SURE TO PULL IT OUT OF THE DOOR AND MAINTAIN TENSION ON IT SO, THE ROLLS ON THE WINCH DRUM DO NOT LOOSEN OR GET CROSSED; THE WINDINGS ON THE DRUM SHOULD REMAIN NEAT AND TIGHTLY COILED.

6. SLIDE THE GUIDE TUBE UP TO EXPOSE THE PORTION OF WIRE ROPE NORMALLY INSIDE IT. THE TOP PORTION OF THE WIRE ROPE INSIDE THIS TUBE IS THE FOCUS OF THIS INSPECTION: A LOCATION SUBJECT TO CORROSION OF GALVANIZED LIFT

ITEM 625, LIGHTING, MISC.: TOWER LIFT CABLE INSPECTION AND LUBRICATION (CONT'D)

- 7. USE A STIFF. NYLON-BRISTLE BRUSH TO CLEAN ANY LOOSE SCALE FROM THE WIRE ROPE. A SMALL AMOUNT OF SURFACE CORROSION IS EXPECTED WITH GALVANIZED WIRE ROPES AND MAY BE IGNORED. CLEAN THE INSIDE OF THE GUIDE TUBE, PREFERABLY WITH COMPRESSED AIR. REPORT TO THE ENGINEER ANY SIGNIFICANT CORROSION. BROKEN WIRES. OR OTHER LOSS OF SECTION IN THE WIRE ROPE. A MARLINSPIKE (E.G., MCMASTER-CARR 3876T19) MAY BE USED TO SEPARATE THE STRANDS FOR CLOSE INSPECTION AT THE SUBJECT LOCATION. FOR REFERENCE, ODOT SPECS (725.21) CALL FOR WIRE ROPE COMPRISED OF 7 STRANDS OF 19 WIRES (7 X 19).
- 8. INSPECT ALL VISIBLE PORTIONS OF THE LIFT CABLES, NOT JUST THE NOTED LOCATION INSIDE THE GUIDE TUBE. REPORT TO THE ENGINEER ANY SIGNIFICANT CORROSION. BROKEN WIRES, OR OTHER LOSS OF SECTION IN THE WIRE ROPE. DO NOT RAISE THE LOWERING DEVICE IF THESE CONDITIONS ARE PRESENT. UNLESS AUTHORIZED TO DO SO BY THE ENGINEER. OR IF THE RING IS LOCATED IN AN AREA THAT IT WOULD PRESENT A HAZARD TO TRAFFIC IF LEFT IN THE LOWERED STATE.
- CLEAN AND LUBRICATE ALL ACCESSIBLE PORTIONS OF THE 9. LIFT CABLES AND DRUM CABLE, USE A LUBRICANT SUITABLE FOR APPLICATION TO WIRE ROPE (E.G., MCMASTER-CARR 1242K14). FOR A STANDING TOWER. TYPICALLY ONLY THE UPPER AND LOWER PORTIONS OF THE LIFT CABLES WILL BE ACCESSIBLE FOR LUBRICATION. BUT THE DRUM CABLE CAN USUALLY BE LUBRICATED ENTIRELY AS PART OF THE INSPECTION PROCEDURE.

PAYMENT FOR THIS ITEM WILL BE MADE AT THE CONTRACT UNIT PRICE PER EACH TOWER AND SHALL INCLUDE ALL LABOR AND EQUIPMENT REQUIRED TO PERFORM THIS ITEM OF WORK AS DESCRIBED ABOVE.

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ITEM 625. LIGHTING. MISC.: TOWER LIFT CABLE INSPECTION THIS ITEM CONSISTS OF EXPOSING AND INSPECTING HIGH MAST TOWER LIFT CABLES WHERE THEY PASS THROUGH THE HOLLOW AXIS OF THE CENTERING ARMS.

THE CONTRACTOR MAY USE FACTORY-AUTHORIZED INSPECTION PROCEDURE. THE CONTRACTOR'S OWN ESTABLISHED AND DOCUMENTED INSPECTION PROCEDURE (WITH WRITTEN APPROVAL OF THE ENGINEER), OR THE WRITTEN PROCEDURE BELOW.

IT IS RECOMMENDED THAT THIS INSPECTION BE PERFORMED PRIOR TO INSTALLING NEW LED LUMINAIRES. IN CASE A SIGNIFICANT CABLE ISSUE IS FOUND AND THE ENGINEER DETERMINES THAT THE RING SHOULD NOT BE RAISED.

LOWER THE DEVICE. STAND WELL BACK FROM THE TOWER BASE FOR SAFETY, IN CASE THE RING FALLS. THIS IS A GENERAL SAFETY REQUIREMENT FOR ALL HIGH MAST TOWER LD OPERATIONS. STOP LOWERING WHEN THE RING REACHES A GOOD WORKING HEIGHT.

CRIB UP THE DEVICE WITH A CAGE OR STILTS MADE FROM 2 X 4S. LARGE JACK STANDS. ETC. WITH THE RING AT A GOOD WORKING HEIGHT.

AFTER THE RING IS CRIBBED, START ADDING SMALL AMOUNTS OF SLACK TO THE WIRE ROPE ASSEMBLY WHILE PULLING DOWN ON THE ENDS OF THE LIFT CABLES WHERE THE STRAND VISE IS ATTACHED. MAINTAIN CONSTANT TENSION IN THE LIFT CABLES. THIS IS BEST DONE WITH 2-3 HELPERS PULLING THE CABLES DOWN. OR POSSIBLY BY ATTACHING WEIGHTS TO WIRE ROPE THE END LOOP COILS IF NECESSARY.

CONTINUE EXPOSING THE ENDS OF THE WIRE ROPE UNTIL THE ENTIRE PORTION THAT IS NORMALLY HIDDEN INSIDE THE AXIS OF THE GUIDE ARM MECHANISM IS EXPOSED. ABOUT 18-24 INCHES. BE AWARE THAT AT SOME POINT THE TRANSITION PLATE MAY HIT THE TOP OF THE TOWER. AT WHICH POINT NO MORE WIRE ROPE CAN BE PULLED DOWN BELOW THE RING.

KEEP A CLOSE EYE ON THE DRUM CABLE. IF THE DRUM CABLE STARTS TO GO SLACK, BE SURE TO PULL IT OUT OF THE DOOR AND MAINTAIN TENSION ON IT SO. THE ROLLS ON THE WINCH DRUM DO NOT LOOSEN OR GET CROSSED: THE WINDINGS ON THE DRUM SHOULD REMAIN NEAT AND TIGHTLY COILED.

SLIDE THE GUIDE TUBE UP TO EXPOSE THE PORTION OF WIRE ROPE NORMALLY INSIDE IT. THE TOP PORTION OF THE WIRE ROPE INSIDE THIS TUBE IS THE FOCUS OF THIS INSPECTION: A LOCATION SUBJECT TO CORROSION OF GALVANIZED LIFT CABLES.

USE A STIFF. NYLON-BRISTLE BRUSH TO CLEAN ANY LOOSE SCALE FROM THE WIRE ROPE. A SMALL AMOUNT OF SURFACE CORROSION IS EXPECTED WITH GALVANIZED WIRE ROPES AND MAY BE IGNORED. CLEAN THE INSIDE OF THE GUIDE TUBE, PREFERABLY WITH COMPRESSED AIR. REPORT TO THE ENGINEER ANY SIGNIFICANT CORROSION, BROKEN WIRES, OR OTHER LOSS OF SECTION IN THE WIRE ROPE.

8. INSPECT ALL VISIBLE PORTIONS OF THE LIFT CABLES. NOT JUST THE NOTED LOCATION INSIDE THE GUIDE TUBE. REPORT TO THE ENGINEER ANY SIGNIFICANT CORROSION. BROKEN WIRES, OR OTHER LOSS OF SECTION IN THE WIRE ROPE. DO NOT RAISE THE LOWERING DEVICE IF THESE CONDITIONS ARE PRESENT, UNLESS AUTHORIZED TO DO SO BY THE ENGINEER, OR IF THE RING IS LOCATED IN AN AREA THAT IT WOULD PRESENT A HAZARD TO TRAFFIC IF LEFT IN THE LOWERED STATE.

PAYMENT FOR THIS ITEM WILL BE MADE AT THE CONTRACT UNIT PRICE PER EACH TOWER AND SHALL INCLUDE ALL LABOR AND EQUIPMENT REQUIRED TO PERFORM THIS ITEM OF WORK AS DESCRIBED ABOVE.

DESIGN AGENCY

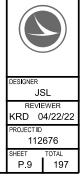


DESIGNER									
JS	JSL								
REVIE	REVIEWER								
KRD 0	4/22/22								
PROJECT ID									
112	676								
SHEET	TOTAL								
P.7A	197								

	SHEET NUM.							PART.									TTEM	ITEM	GRAND		DECONVERSION				
7		7A	8	10	11	12	13	14	14A	01/ERD/O T	02/ERD/O T	03/ERD/O T	04/ERD/O T	05/ERD/O T	06/ERD/C T	07/ERD/0 T	08/ERD/C T	09/ERD/C	0 10/ERD/O T	ITEM	EXT	TOTAL	UNIT	DESCRIPTION	SHEET NO.
																								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
18	7									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
2	4									3	18		2	1						625	26273	24	EACH	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN (FURNISH ONLY)	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	8
									102						10			49	43	625	50401	102	EACH	REPAIR INTEGRAL LUMINAIRE LOWERING MECHANISM OF TOWER LIGHTING FIXTURE, AS PER PLAN (A)	7A
									5						2			1	2	625	50401	5	EACH	REPAIR INTEGRAL LUMINAIRE LOWERING MECHANISM OF TOWER LIGHTING FIXTURE, AS PER PLAN (B)	7A
				805	2,861	35	238	180		805	2,861	35	238	180						625	75506	4,119	EACH	LUMINAIRE REMOVED	
				445	953		105	112		445	953		105	112						625	75507	1,615	EACH	LUMINAIRE REMOVED, AS PER PLAN	7
									12								12			625	98000	12	EACH	LIGHTING, MISC.: TOWER LIFT CABLE INSPECTION AND LUBRICATION	7A
									1,050							1,050				625	98000	1,050	EACH	LIGHTING, MISC.: TOWER LIFT CABLE INSPECTION	7A
		60													20			20	20	625	98700	60	HOUR	LIGHTING, MISC.: HOLOPHANE FIELD REPRESENTATIVE	7A
																								MAINTENANCE OF TRAFFIC	
			1,568							256	1,008	16	112	176						614	11110	1,568	HOUR	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE	
																								INCIDENTALS	
										LS	LS	LS	LS	LS						614	11000	LS		MAINTAINING TRAFFIC	
										LS	LS	LS	LS	LS						624	10000	LS		MOBILIZATION	

Lighting Upgrade FY2021 MODEL: Sheet PAPERSIZE: 17x11 (in.) DATE: 4/25/2022 TIME: 12:38:59 PM USER: jlut21 pw:Nohiodot-pw.bendley.com.chilodot-pw-02/Documents/01 Active Projects1_Statewide/Statewide/Statewide/

DESIGN AGENCY



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	LOCATION	SHEET NO.	DESCRIPTION	REPAIR INTEGRAL LUMINAIRE
	D05-01	15,18	I-70 AND S.R. 204/TAYLOR RD X-3,Q-11 (100')	
			CONTINGENCY (LOCATIONS TO BE PROVIDED BY DISTRICT)	
	D06	55-173	ALL TOWER LOCATIONS	
			US-35 AND S.R. 159	
	D09-56	174	A-1 TO A-6, B-1 TO B-6 (100')	
	D10-57	175-176	US-33 AND S.R. 78 B-1 TO B-8 (100')	
	<u> </u>	110 110		
	D10-63	181	I-77 AND S.R. 7	
			A-1 TO A-8, B-3,B-7 TO B-10 (110')	
			B-1, B-2 (120')	
	D10-65	183-185	S.R. 7 AND US-50/S.R. 339	
			A-A1 (80')	
			A-A6,D-B1,D-B3,D-B5 TO D-B7 (100')	
			A-A4,A-A5,A-A7,B-A2 TO B-A4,C-A1,C-A4,D-DB (110')	
			D-A1 (110')	
an			A-A2,A-A3,A-B1,A-B3,B-A1,C-A2,D-B4 (120') A-B2,D-B2 (130')	
(112676 LS006.dan			C-A3 (140')	
) FS(
12676				
ets/1	D11	186-197	ALL TOWER LOCATIONS WITH GALVANIZED CABLES (LOCATIONS TO BE PROVIDED BY DISTRICT)	
PM_USER: jlutz1 Statewide\112676\400-Engineering\Lighting\Sheets\	2 0 0			
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625	625	625	625					
REPAIR INTEGRAL LUMINAIRE LOWERING MECHANISM OF TOWER LIGHTING FIXTURE, AS PER PLAN (A)	REPAIR INTEGRAL LUMINAIRE LOWERING MECHANISM OF TOWER LIGHTING FIXTURE, AS PER PLAN (B)	LIGHTING MISC.: TOWER CABLE INSEPECTION AND LUBRICATION	LIGHTING MISC.: TOWER CABLE INSEPECTION					
EACH	EACH	EACH	EACH					
 10	2							
			1,050					
		12						
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13 2 1								
6								
9 7 2 1	1							
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102	5	12	1,050					

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			 	DESIGN AGENCY
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	 	 	 	REVIEWER
 	 		 	KRD 04/22/22
				PROJECT ID
				112676 SHEET TOTAL
				P.14A 197