DESIGN EXCEPTIONS

NONE REQUIRED

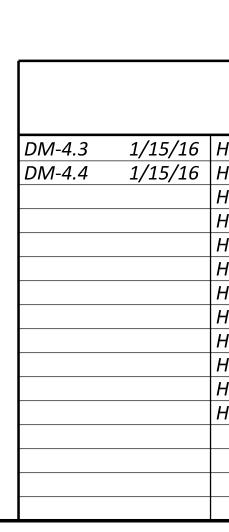
ADA DESIGN WAIVERS

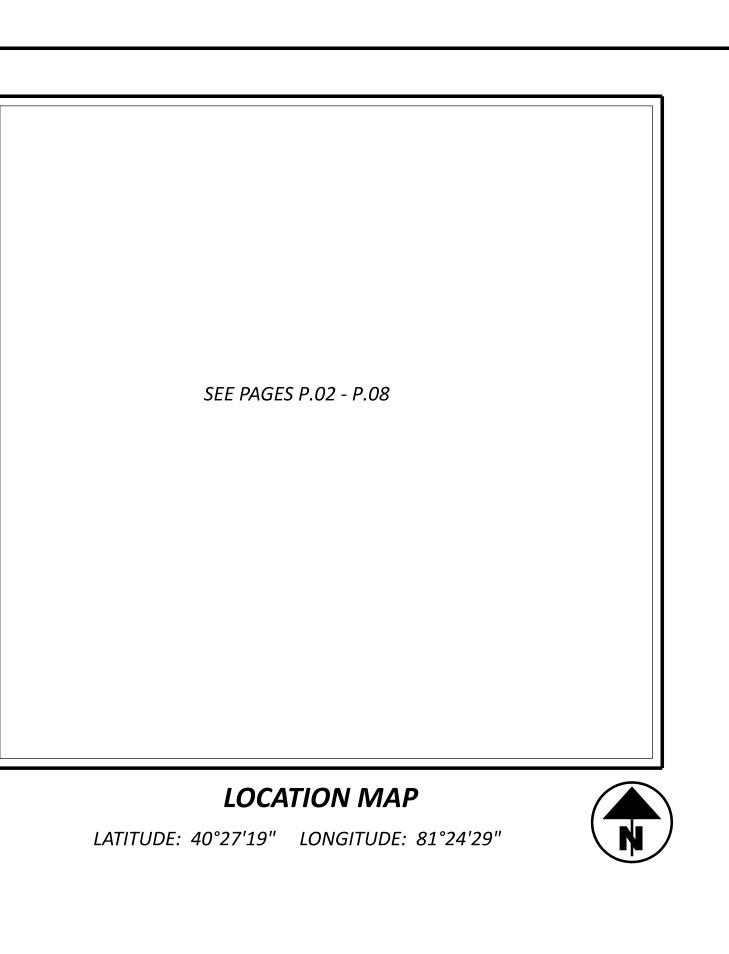
NONE REQUIRED



PLAN PREPARED BY: ODOT DISTRICT 11 ENGINEERING

	SPECIAL PROVISIONS	EMENTAL ICATIONS		STANDARD CONSTRUCTION DRAWINGS											
		1/17/25	800-2023		1/20/23	TC-21.21	7/19/19	MT-95.30	7/21/23	HL-10.12	1/15/16	DM-4.3			
		7/21/23	813		1/17/25	TC-22.10	7/19/19	MT-95.31	1/20/23	HL-10.13	1/15/16	DM-4.4			
		4/20/12	821		10/18/13	TC-41.20	4/19/19	MT-97.10	7/21/23	HL-20.11					
ENGI		7/19/24	825		10/18/13	TC-42.20	1/17/20	MT-98.10	1/17/25	HL-20.13					
		7/19/24	832		10/18/13	TC-52.10	1/17/20	MT-98.11	7/21/23	HL-30.11					
		4/16/21	913		1/15/21	TC-52.20	4/19/19	MT-98.20	4/17/20	HL-30.21					
		7/19/24	921		1/19/24	TC-81.11	1/17/20	MT-98.22	1/17/25	HL-30.22					
, X P					1/17/20	TC-83.10	1/17/20	MT-98.28	7/19/24	HL-40.10					
ix A					7/19/24	TC-83.20	7/17/20	MT-101.90	1/16/15	HL-50.11					
* PROKES					1/19/24	TC-84.20	1/17/20	MT-105.10	7/21/17	HL-60.11					
					10/18/13	TC-84.21			7/21/23	HL-60.12					
E PO									7/19/24	HL-60.31					
·															
· · ·															





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STATE OF OHIO DEPARTMENT OF TRANSPORTATION

D11-LG-FY2026

LIGHTING MAINTENANCE CONTRACT BELMONT, CARROLL, COLUMBIANA, HARRISON, HOLMES, JEFFERSON, AND TUSCARAWAS COUNTIES

INDEX OF SHEETS:

TITLE SHEET	P.01
LOCATION MAPS	P.02-P.08
GENERAL NOTES	P.09-P.18
GENERAL SUMMARY	P.19-P.20
LIGHTING INVENTORY	P.21-P.25
GENERAL NOTES (US 250 & SR 151 PARK AND RIDE)	P.26
SUB-SUMMARY (US 250 & SR 151 PARK AND RIDE)	P.27
LIGHTING PLAN (US 250 & SR 151 PARK AND RIDE)	P.28
GENERAL NOTES (JEF US 22/SR 7)	P.29
SUB-SUMMARY (JEF US 22/SR 7)	P.30

FEDERAL PROJECT NUMBER

NONE

DISTRICT-WIDE HIGHWAY LIGHTING AND MAINTENANCE CONTRACT. THIS PROJECT INCLUDES UPGRADING ALL REMAINING HIGH-PRESSURE SODIUM (HPS) FIXTURES IN DISTRICT 11 TO LIGHT EMITTING DIODES (LED) FIXTURES.

THIS PROJECT WILL ALSO INSTALL HIGHWAY LIGHTING AT THE US 250/SR 151 PARK & RIDE IN HARRISON COUNTY.

EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED AREA: 0.3 ACRES 0 ACRES ESTIMATED CONTRACTOR EARTH DISTURBED AREA: N/A (NOI NOT REQUIRED)* NOTICE OF INTENT EARTH DISTURBED AREA: *ROUTINÉ MAINTENANCE PROJECT

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.

2023 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 THESE IMPROVEMENTS WILL NOT REQUIRE THE CLOSING OF THE HIGHWAYS TO TRAFFIC AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH IN THE PLANS AND ESTIMATES.





NON-FEDERAL

RAILROAD INVOLVEMENT

PROJECT DESCRIPTION

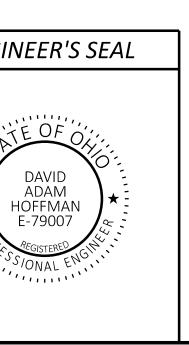
THIS PROJECT WILL ALSO REPLACE 14 MEDIAN-MOUNTED CONVENTIONAL LIGHT POLES ALONG JEF US 22/SR 7.

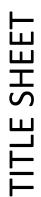
LIMITED ACCESS

homos & Coray

Thomas D. Corey District 11 Deputy Director

Pamela Boratyn Director, Department of Transportation









RESTORATION, CLEAN UP, AND DISPOSAL

THE CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS TO A CONDITION EQUAL TO THAT EXISTING BEFORE THE WORK WAS STARTED PER CMS 104.04.

THE CONTRACTOR SHALL CLEAN UP ANY BROKEN GLASSWARE FOUND BY HIS CREWS IN THE WORK AREA BY SWEEPING THE AREA FREE, AND DISPOSING OF THE BROKEN GLASS IN REGULAR RUBBISH DISPOSAL UNITS. ALL BROKEN CONCRETE SHALL BE DISPOSED OF BY THE CONTRACTOR PER CMS 105.17. THE COST OF RESTORATION AND CLEANUP IS INCIDENTAL TO ALL CONTRACT ITEMS.

ALL DEBRIS REMOVED FROM THE ROADSIDE BY THE CONTRACTOR SHALL BE DISPOSED OF PER CMS 105.17.

Removed Note "Item 631 – Disconnect Switch with Enclosure, Type X, As Per Plan"

HAZARDOUS MATERIALS

TRANSFORMERS, BALLASTS, AND CAPACITORS SHALL BE MARKED "NO PCB'S" IN ACCORDANCE WITH THE FEDERAL ENVIRONMENTAL PROTECTION AGENCY REGULATION 40 CFR 761. THE CONTRACTOR SHALL NOT USE ANY MATERIAL FURNISHED UNDER THIS CONTRACT WHICH CONTAINS POLYCHLORINATED BIPHENYLS (PCB'S).

UTILITIES

THERE ARE NO UNDERGROUND UTILITIES SHOWN ON THIS PLAN. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT THE OHIO UTILITIES PROTECTION SERVICE AS NEEDED.

ITEM 625 - LIGHTING, MINIMAL MAINTENANCE, AS PER PLAN

THE CONTRACTOR WILL TROUBLESHOOT LOCATIONS AT THE REQUEST OF THE ENGINEER, AND DETERMINE THE CORRECTIVE ACTION NEEDED. THIS ALSO INCLUDES DISCOVERY OF NEEDED REPAIRS BY THE CONTRACTOR WHEN AT A SPECIFIC LOCATION PERFORMING OTHER PROJECT WORK. A RECOMMENDATION SHALL BE PROVIDED IN WRITING (E-MAIL ACCEPTABLE), OR BY PHONE TO THE ENGINEER WHO WILL APPROVE THE REPAIR/REPLACEMENT ACTION. MINIMAL MAINTENANCE WILL INCLUDE ROUTINE MAINTENANCE NOT SEPARATELY ITEMIZED IN THE PLAN UNDER MAJOR MAINTENANCE, SUCH AS REPLACING PARTS WHICH ARE WORN, DEFECTIVE OR MISSING TO RESTORE THE LIGHTING SYSTEM BACK TO NORMAL OPERATION. EXAMPLES OF MINIMAL MAINTENANCE REPAIRS SHALL INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING:

LIGHTING FIXTURE LAMPS, GASKETS, HINGES AND LATCHES. REPLACEMENT OF THE ENTIRE LUMINAIRE IS UNDER MAJOR MAINTENANCE.

POLE OR ARM DAMAGE, DETERIORATION, MISSING HARDWARE OR POLE IDENTIFICATION NUMBERS. ALSO INCLUDED ÁRE HANDHOLE CÓVERS, POLE CAPS, ATTACHMENT HARDWARE AND ADJUSTING A POLE TO THE CORRECT PLUMB POSITIÓN. REPLACEMENT OF THE ENTIRE POLE OR ARM IS UNDER MAJOR MAINTENANCE.

FRANGIBLE BASE DAMAGE OR MISSING OR DAMAGED DOORS. REPLACEMENT OF THE ENTIRE FRANGIBLE BASE IS UNDER MAJOR MAINTENANCE.

FOUNDATIONS WITH VOIDS DUE TO EROSION SHALL BE BACKFILLED WITH ACCEPTABLE 4. MATERIAL, SLOPED AND SEEDED.

FUSES THAT ARE BLOWN, DISCONNECT SWITCH ENCLOSURES AND PULL APART CONNECTORS SHALL BE REPLACED WITH THÉ PROPER TYPE, VOLTAGE AND AMPERE RATING.

PHOTOCELLS WILL INCLUDE ADJUSTMENTS OR REPLACEMENTS. 6.

GROUNDING AND LIGHTNING PROTECTION REPAIRS, EXCLUDING REPLACING AND INSTALLING A GROUND ROD WHICH IS INCLUDED UNDER MAJOR MAINTENANCE.

CONTROL CENTER REPAIRS, INCLUDING REPLACEMENT OF PAD LOCKS AND KEYS. REPLACEMENT 8. OF THE ENTIRE CONTROL CENTÉR IS UNDER MAJOR MAINTENANCE.

PAYMENT FOR THIS WORK WILL BE MADE AT THE CONTRACT UNIT PRICE BID PER EACH MINIMAL MAINTENANCE REPAIR FOR WHICH WORK HAS BEEN APPROVED AND COMPLETED. THIS INCLUDES FURNISHING ALL LABOR, EQUIPMENT, MATERIAL, AND THE REMOVAL AND DISPOSAL OF MATERIAL FOR MAINTAINING AND REPAIRING THE LIGHTING SYSTEM AS DESCRIBED HEREIN FOR EACH MINIMAL MAINTENANCE REPAIR. IT IS ESTIMATED THAT 500 MINIMAL MAINTENANCE REPAIRS WILL BE NECESSARY DURING THE LIFE OF THIS CONTRACT. THIS QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY.

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ITEM 611 - 4" CONDUIT, TYPE E, AS PER PLAN

ENGINEER. REFERENCE IS MADE TO SCD HL-30.11 FOR DETAILS OF DRAINING PULL BOXES.

PAYMENT WILL BE AT THE CONTRACT UNIT BID PRICE PER FOOT.

THIS ITEM OF WORK SHALL CONSIST OF THE CONTRACTOR RESPONDING TO AN EMERGENCY CALL-OUT, ONLY WHEN NOTIFIED BY THE ENGINEER, WHEN THE EMERGENCY OCCURS DURING NON-REGULAR WORKING HOURS. SOME EXAMPLES OF A HAZARDOUS CONDITION THAT WOULD WARRANT AN EMERGENCY CALL-OUT OF THE CONTRACTOR WOULD BE A KNOCKDOWN THAT REQUIRED THE USE OF HEAVY EQUIPMENT TO REMOVE A POLE, OR AN ACCIDENT THAT WOULD REQUIRE A MAINTENANCE CREW TO REMOVE, AND/OR SECURE ELECTRICAL CIRCUITS.

THE CONTRACTOR SHALL FURNISH THE ENGINEER WITH A SINGLE TELEPHONE NUMBER WHERE THEY CAN BE CONTACTED 24 HOURS A DAY, 7 DAYS A WEEK. IN ADDITION, THE CONTRACTOR SHALL PROVIDE AND MAINTAIN A CELL PHONE FOR THE CONTRACTOR'S CREW FOREMAN. THE CELL PHONE SHALL BE WORN DURING REGULAR AND NON-REGULAR WORKING HOURS, AND THE CONTACT NUMBER SHALL BE LISTED WITH ENGINEER. THE CONTRACTOR'S RESPONSE TIME, FROM THE TIME OF NOTIFICATION UNTIL PERSONNEL ARRIVE AT THE EMERGENCY SITE, SHALL NOT EXCEED TWO (2) HOURS.

SHOULD THE CONTRACTOR FAIL TO MEET THIS REQUIREMENT, THE CONTRACTOR SHALL BE ASSESSED A DISINCENTIVE IN THE AMOUNT OF \$50 FOR EACH MINUTE OF RESPONSE TIME BEYOND THE **REQUIRED 2 HOURS.**

PAYMENT WILL BE MADE AT THE CONTRACT UNIT PRICE PER CALL OUT.

PERMITTED LANE CLOSURE SCHEDULE (PLCS) LANE CLOSURE(S) SHALL CONFORM TO THE PLCS. PUBLISHED PLCS INFORMATION CAN BE FOUND ON THE ODOT WEBSITE.

THE MONTHLY PUBLISHED SCHEDULES REQUIRED TO BE USED, FOR EACH PLCS SEGMENT WITHIN THE PROJECT AREA, ARE THOSE THAT COMPRISE THE CONSECUTIVE 12-MONTH PERIOD BEGINNING 15 MONTHS PRIOR TO THE MONTH AND YEAR OF SALE AND ENDING 4 MONTHS PRIOR TO THE MONTH AND YEAR OF SALE. THESE SAME 12 MONTHS APPLY FOR THE LIFE OF THE PROJECT AND SHALL BE APPLIED TO EACH RESPECTIVE MONTH OF CONSTRUCTION (MONTH OF LANE CLOSURES(S) SHALL MATCH MONTH OF PLCS USED). LANE CLOSURE(S) IN PLACE FOR MULTIPLE MONTHS SHALL ALWAYS COMPLY WITH THE CURRENT RESPECTIVE MONTH.

(FOR EXAMPLE: IF THE SALE DATE FOR THE PROJECT WAS MARCH OF 2021, THE MONTHLY PUBLISHED SCHEDULES FOR EACH APPLICABLE PLCS SEGMENT WOULD BE DECEMBER 2019 TO NOVEMBER 2020. IF THIS WAS A THREE-YEAR PROJECT, YEAR THREE WOULD STILL BE USING THE DECEMBER 2019 TO NOVEMBER 2020 MONTHLY SCHEDULES. IF THE PROJECT DESIRED TO CLOSE TWO LANES IN JUNE 2021, REFERENCE WOULD BE MADE TO THE JUNE 2020 SCHEDULE(S) FOR THE RESPECTIVE PLCS SEGMENT(S). IF THE SAME TWO LANES WERE DESIRED TO BE CLOSED AGAIN IN JULY 2021, REFERENCE WOULD BE MADE TO THE JULY 2020 SCHEDULE(S) FOR THE RESPECTIVE PLCS SEGMENT(S).)

MORE RESTRICTIVE CHANGES TO THE ALLOWABLE LANE CLOSURE HOURS ARE AT THE DISCRETION OF THE ENGINEER IN ORDER TO COMPLY WITH THE TRAFFIC MANAGEMENT IN WORK ZONES POLICY (21-008(P)) AND STANDARD PROCEDURE (123-001(SP)).

LESS RESTRICTIVE CHANGES TO THE ALLOWABLE LANE CLOSURE HOURS ARE SUBJECT TO THE TRAFFIC MANAGEMENT IN WORK ZONES POLICY (21-008(P)) AND STANDARD PROCEDURE (123-001(SP)) AND SHALL NOT BE IMPLEMENTED UNTIL, AND UNLESS, APPROVED BY THE PROPER ODOT AUTHORITY. **[EXISTING MOT EXCEPTIONS THAT HAVE ALREADY BEEN APPROVED IN ACCORDANCE TO THE TRAFFIC** MANAGEMENT IN WORK ZONES POLICY AND STANDARD PROCEDURE ARE DETAILED IN THE APPROVED MAINTENANCE OF TRAFFIC (MOT) POLICY EXCEPTION(S) PLAN NOTE.]

ALLOWABLE LANE CLOSURE HOURS FOR FACILITIES NOT COVERED BY THE PLCS, IF ANY, SHALL BE AS SPECIFIED ELSEWHERE IN THE PLANS.

THIS ITEM OF WORK SHALL CONSIST OF TRENCHING, FURNISHING MATERIALS, AND INSTALLING A 4 INCH CONDUIT, TYPE E UNDERDRAIN AT EXISTING OR NEW PULL BOXES AS DIRECTED BY THE

ITEM SPECIAL - EMERGENCY RESPONSE - KNOCKDOWN ROADWAY HAZARD AND/OR LIVE EXPOSED WIRE

DESIGN AGENCY



	ITEM 625 - LIGHTING MISC.: H.O.A. SWITCH	
	THIS ITEM OF WORK SHALL CONSIST OF REMOVING AND DISPOSING OF A DEF	ΞE
	AND FURNISHING AND INSTALLING A NEW SWITCH IN AN EXISTING CONTROL	С
	SHALL BE THREE (3) POSITION, "HAND-OFF-AUTOMATIC", WITH THE REQUIREI TERMINALS ENCLOSED. THIS ITEM OF WORK SHALL INCLUDE ALL NECESSARY	ט W
	OTHER MISCELLANEOUS ITEMS REQUIRED TO RETURN THE CONTROL CENTER	
	PAYMENT WILL BE MADE AT THE CONTRACT UNIT BID PRICE OF EACH.	
	ITEM 625 - LIGHTING MISC.: LOCATING AND MARKING UNDERGROUND WIRE	
	THIS ITEM OF WORK SHALL CONSIST OF THE CONTRACTOR LOCATING AND MA	٩F
	UNDERGROUND ELECTRICAL WIRE AT THE LOCATION SPECIFIED. THE CONTRA	
	LOCATION BY USING RED PAINT ON THE GROUND AND STAKES WITH RED TOP: BE ALL EQUIPMENT LABOR, MATERIALS AND INCIDENTALS REQUIRED TO PERF	
	THIS ITEM SHALL ALSO BE USED AT THE DIRECTION OF THE ENGINEER WHEN T	TL
	UNDERGROUND UTILITIES IS REQUIRED FOR SPECIAL PROJECTS AND AS SUPPL	
	BY DISTRICT TRAFFIC. THE CONTRACTOR SHALL USE THE ONLINE LOCATORLOG BROWSER FOR RECEIVING AND RESPONDING TO OUPS TICKETS AFTER MARKI	
	DONE WITHIN 48 HOURS OF RECEIVING THE TICKET.	111
	PAYMENT WILL BE MADE AT THE CONTRACT UNIT PRICE FOR AN HOUR OF TIM	ЛС
	FATIVILINT WILL BE WADE AT THE CONTRACT ON TPRICE FOR AN HOOR OF THE	/IL
	ITEM 625 - LIGHTING MISC.: DISCONNECT SWITCH, BY TYPE	ر ک
	THIS ITEM OF WORK SHALL CONSIST OF REMOVING AND DISPOSING OF A DEF	ΞE
	SWITCH, AND FURNISHING AND INSTALLING A NEW DISCONNECT SWITCH, BY	Ţ
	CONTRÓL CENTER, INCLUDING ALL NECESSARY WIRING, TESTING, AND OTHER REQUIRED TO RETURN THE CONTROL CENTER TO NORMAL OPERATION.	i P
	PAYMENT WILL BE MADE AT THE CONTRACT UNIT BID PRICE OF EACH.	
	ITEM 625 - POWER SERVICE, AS PER PLAN (A)	
	POWER SERVICE WILL CONFORM TO CMS SPECIFICATIONS 725.19 WITH EXCEP REQUIREMENTS FOR THE RETENTION OF PRESERVATIVE. THIS REQUIREMENT	
	LONG AS WOOD POLES MEET AEP STANDARD SPECIFICATIONS AND ARE APPRO	0
heets\112649_GN008.dgn	PAYMENT WILL BE AT THE CONTRACT UNIT PRICE PER EACH.	
GN0		
12649	ITEM 625 - DUCT CABLE, BY TYPE, AS PER PLAN	
eets\1	THIS ITEM OF WORK SHALL CONSIST OF FURNISHING AND INSTALLING DUCT O	
	INCLUDE ANY CONNECTOR KITS, SPLICE KITS, AND TESTING REQUIRED TO RET NORMAL OPERATION. THE CABLE INSULATION SHALL BE TESTED AT ALL NEW	U
Roadw	1000 VOLT MEGGER TO ASSURE THE CABLE AND SPLICES ARE ACCEPTABLE.	
in.) DATE: 6/24/2025 TIME: 4:14:40 PM USER: dhoffma1 odot-pw-02\Documents\01 Active Projects\District 11_D11\112649\400-Engineering\Roadway\S	PAYMENT WILL BE MADE AT THE CONTRACT UNIT BID PRICE PER FOOT.	
Engine	TAIMENT WILL DE MADE AT THE CONTRACT ONT DID TRICETERTOOT.	
\400-E	ITEM 625 - REPAIRING UNDERGROUND BREAK OF CABLE IN DUCT OR CONDUI	Т
12649	THIS ITEM OF WORK SHALL CONSIST OF EXCAVATING AND UNCOVERING A BRI	E/
a1 D11\1	IN CONDUIT, SPLICING THE BREAK OR SHORT WITH WATERPROOF SPLICE KITS RESTORING THE AREA. THE ENGINEER SHALL OBSERVE THE SPLICING AS IT IS	', /
lhoffm t 11∖_	RESTORING THE AREA. THE ENGINEER SHALL OBSERVE THE SPLICING AS IT IS REPAIR'S INTEGRITY.	U
DATE: 6/24/2025 TIME: 4:14:40 PM USER: dhoffma1 pw-02\Documents\01 Active Projects\District 11_D1		
PM U jects\	PAYMENT WILL BE MADE AT THE CONTRACT UNIT BID PRICE OF EACH.	
:14:40 ive Prc	ITEM 625 - LUMINAIRE, CONVENTIONAL, SOLID STATE (LED), AS PER PLAN (A)	
IME: 4 01 Acti	TTEIVI 025 - LUIVIINAIRE, CUNVENTIONAL, SULID STATE (LED), AS PER PLAN (A)	
025 TI ients\(THIS ITEM OF WORK CONSISTS OF INSTALLING A LUMINAIRE ON A LIGHT OR C	
/24/2(Jocum	THE POSITION INDICATED ON THE PLANS. FURNISH NEW MATERIALS AND EQU QUALITY, OF CURRENT DESIGN, AND FREE FROM DEFECTS. ENSURE THE LUMI	
ATE: 6 v-02\I	ALIGNED VERTICALLY AND HORIZONTALLY TO THE ROADWAY AS SPECIFIED. TH	ΗE
(in.) D, odot-pv	SHALL BE COOPER NAVEON NVN-AA-04-E-U-T2A. THE LUMINAIRES SHALL MEI SUPPLEMENTAL SPECIFICATIONS 813 AND 913.	ΕI
<u> </u>		
IZE: 34 ey.con	PAYMENT WILL BE MADE AT THE UNIT BID PRICE FOR EACH CMS ITEM 625, "LI CONVENTIONAL, SOLID STATE (LED),AS PER PLAN (A) FOR EACH LUMINAIRE W	U /H
\PERSI bentl€	CONVENTIONAL, SOLID STATE (LED), AS PER PLAN (A) FOR EACH LUMINAIRE W COMPENSATION FOR ALL LABOR, MATERIALS AND INCIDENTALS REQUIRED TO) (
eet P⁄ ot-pw.	A SATISFACTORY AND WORKMAŃLIKE MANNER.	
ODEL: Sheet PAPERSIZE: 34x22 v:\\ohiodot-pw.bentley.com:oh	THE CONTRACTOR SHALL INQUIRE ABOUT THE STATUS OF THE LUMINAIRE'S V	V
0 !:/	DISTRICT PRIOR TO REPLACEMENT TO DETERMINE PROPER PAYMENT.	

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ECTIVE H-O-A SWITCH, CENTER. THE SWITCH D RATING, AND THE WIRING, TESTING, AND TO NORMAL OPERATION.

RKING ALL CTOR WILL MARK THE ALSO INCLUDED WILL DRM THE ABOVE WORK.

HE LOCATION OF IED TO THE CONTRACTOR IX OUPS TICKET IG. MARKING SHALL BE

E.

mmmm

ECTIVE DISCONNECT TYPE, IN AN EXISTING MISCELLANEOUS ITEMS

TION TO THE WILL BE WAIVED AS OVED BY THE ENGINEER.

CABLE, AND SHALL ALSO URN THE CIRCUIT TO INSTALLATIONS WITH A

EAK OR SHORT OF CABLE , AND BACKFILLING AND DONE TO ENSURE THE

OMBINATION POLE AT JIPMENT OF FIRST NAIRE IS LEVEL AND E LUMINAIRE SUPPLIED

JMINAIRE, HICH SHALL BE FULL COMPLETE THIS ITEM IN

ARRANTY WITH THE

ITEM 625, LUMINAIRE, CONVENTIONAL, SOLID STATE (LED), LED REPLACEMENT EQUIVALENT TO HPS FIXTURE, AS PER PLAN

THE CONTRACTOR SHALL FURNISH AND INSTALL LIGHT EMITTING DIODE (LED) REPLACEMENT FIXTURES EQUIVALENT TO THE EXISTING HIGH PRESSURE SODIUM (HPS) FIXTURES AS SPECIFIED BELOW AND AS PER THE LOCATIONS ON SHEETS 21-24. FURNISH ACCEPTABLE FIXTURES MEETING SS 813 PER ODOT'S OFFICE OF ROADWAY ENGINEERING APPROVED LIST DATED 6/21/24 AND AS SPECIFIED BELOW FOR THE HPS FIXTURES SHOWN ON SHEET 21-24. ALL FIXTURES AT INTERSECTIONS AND INTERCHANGES ALONG FREEWAYS AND EXPRESSWAYS SHALL HAVE I.E.S. TYPE III HORIZONTAL DISTRIBUTION. ALL FIXTURES AT INTERSECTIONS ALONG CONVENTIONAL ROADWAYS SHALL HAVE I.E.S. TYPE II HORIZONTAL DISTRIBUTION. ALL FIXTURES SHALL HAVE A MEDIUM VERITICAL DISTRIBUTION. REMOVAL AND DISPOSAL OF THE EXISTING HPS FIXTURES IS INCLUDED IN THIS ITEM OF WORK. ALSO INCLUDED WILL BE ALL EQUIPMENT, LABOR, MATERIALS, AND INCIDENTALS REQUIRED TO PERFORM THE ABOVE WORK.

PAYMENT WILL BE MADE AT THE CONTRACT UNIT BID PRICE OF EACH.

Updated Note

CONVENTIONAL HPS FIXTURE WATTAGE	100 WATT							
EQUIVALENT LED FIXTURE LUMENS RANGE	4,000-5,000 LUMENS							
LED FIXTURE 1	GE EVOLVE PRODUCT FAMILY							
LED FIXTURE 2	AEL AUTOBAHN PRODUCT FAMILY							
LED FIXTURE 3	SIGNIFY/LUMEC ROADFOCUS LED FAMILY							
LED FIXTURE 4	COOPER NAVION OR VERDEON PRODUCT FAMILIES							
FIXTURE VOLTAGE	480 \	VOLT	240 \	/OLT				
DISTRIBUTION TYPE								
TOTAL QUANTITY		52		3				

CONVENTIONAL HPS FIXTURE WATTAGE	200 WATT							
EQUIVALENT LED FIXTURE LUMENS RANGE		Ç	9,500-11,00	0 LUMENS	5			
LED FIXTURE 1	GE EVOLVE PRODUCT FAMILY							
LED FIXTURE 2	AEL AUTOBAHN PRODUCT FAMILY							
LED FIXTURE 3	SIGNIFY/LUMEC ROADFOCUS LED FAMILY							
LED FIXTURE 4	COOPER NAVION OR VERDEON PRODUCT FAMILIES							
FIXTURE VOLTAGE	480 \	480 VOLT 240 VOLT			120 \	VOLT		
DISTRIBUTION TYPE	II	III	II	III	II			
TOTAL QUANTITY	20	817	33	189	20	1		

CONVENTIONAL HPS FIXTURE WATTAGE	400 WATT							
EQUIVALENT LED FIXTURE LUMENS RANGE	21,000-24,000 LUMENS							
LED FIXTURE 1	GE EVOLVE PRODUCT FAMILY							
LED FIXTURE 2	AEL AUTOBAHN PRODUCT FAMILY							
LED FIXTURE 3	SIGNIFY/LUMEC ROADFOCUS LED FAMILY							
LED FIXTURE 4	COOPER NAVION OR VERDEON PRODUCT FAMILIES							
FIXTURE VOLTAGE	480 VOLT							
DISTRIBUTION TYPE	III							
TOTAL QUANTITY	306							

1,000 WATT								
ļ	55,000-62,000 LUME	NS						
GE EVOLVE PRODUCT FAMILY								
AEL AU	JTOBAHN PRODUC	Γ FAMILY						
SIGNIFY/LUMEC ROADFOCUS LED FAMILY								
COOPER NAVIC	N OR VERDEON PR	ODUCT FAI	MILIES					
480 VOLT								
III								
38								
	GE E AEL AU SIGNIFY/LU COOPER NAVIO 480 VOLT III	GE EVOLVE PRODUCT F AEL AUTOBAHN PRODUCT SIGNIFY/LUMEC ROADFOCUS COOPER NAVION OR VERDEON PR 480 VOLT	AEL AUTOBAHN PRODUCT FAMILY SIGNIFY/LUMEC ROADFOCUS LED FAMILY COOPER NAVION OR VERDEON PRODUCT FAM 480 VOLT					

NOTES GENERAL

DESIGN AGENCY

ESIGNER

ROJECT ID

HEET

RDA

REVIEWER DAH 03/04/2

112649

P.16 30

TOTAL

	_											_		
				SHEET	NUMBER				PART.		ITEM	GRAND		
										ITEM		TOTAL	UNIT	DESCRIPTION
			P.12	P.13			P.27	P.30	01/SAF/21		EXT	TOTAL		
									82	625	98000	82	EACH	LIGHTING, MISC.: ANNUAL OPERATION AND INSPECTION OF TOWER LIGHTING DEVICES
									1	625	98000	1	EACH	LIGHTING, MISC.: DISCONNECT SWITCH WITH ENCLOSURE, 60 AMP
									1	625	98000	1	EACH	LIGHTING, MISC.: DISCONNECT SWITCH WITH ENCLOSURE, 100 AMP
									2	625	98000	2	EACH	LIGHTING, MISC.: DISCONNECT SWITCH, 30 AMP
									2	625	98000	2	EACH	LIGHTING, MISC.: DISCONNECT SWITCH, 60 AMP
										COF	08000	2		
									2	625 625	98000 98000	2	EACH EACH	LIGHTING, MISC.: DISCONNECT SWITCH, 100 AMP LIGHTING, MISC.: H.O.A. SWITCH
									1	625	98000	1	EACH	LIGHTING, MISC.: LIGHTNING ROD REPAIR
									3	625	98000	3	EACH	LIGHTING, MISC.: LIGHTNING SURGE ARRESTOR SYSTEM REPAIR
									3	625	98000	3	EACH	LIGHTING, MISC.: PHOTO-CELL TRANSFORMER, 0.75 kVA
										<u> </u>			54.011	
									10	625 625	98000 98000	2	EACH	LIGHTING, MISC.: REMOVE AND REERECT STANDING LIGHT POLE ON A NEW BASE
									1,500	625	98000	10 1,500	EACH FT	LIGHTING, MISC.: TOWER LIGHTING CONNECTORS LIGHTING, MISC.: REMOVING CABLE IN EXISTING DUCT OR CONDUIT
									100	625	98700	100	HOUR	LIGHTING, MISC.: LOCATING AND MARKING UNDERGROUND WIRE
									200	625	98700	200	HOUR	LIGHTING, MISC.: TROUBLESHOOTING UNDERGROUND AND ABOVE GROUND CIRCUITRY PROBLEM
														LIGHTING
														US 250 AND SR 151 PARK AND RIDE
							Q		8	625	00450	8	EACH	CONNECTION, FUSED PULL APART
							6		6	625	00430	6	EACH	CONNECTION, UNFUSED PERMANENT
							4		4	625	10490	4	EACH	LIGHT POLE, CONVENTIONAL, DESIGN AT8B32.5
							4		4	625	14000	4	EACH	LIGHT POLE FOUNDATION, 24" X 6' DEEP
							380		380	625	29000	380	FT	TRENCH
							224		224	C25	22400	224		
							324 420		324 420	625 625	23400 24320	324 420	FT FT	NO. 10 AWG POLE AND BRACKET CABLE 1-1/2" DUCT CABLE WITH THREE NO. 4 AWG 2400 VOLT CABLES
							4		4	625	26253	4	EACH	LUMINAIRE, CONVENTIONAL, SOLID STATE (LED), AS PER PLAN, IES-II-M, LED, 12073-14754 LUMENS
							1		1	625	30700	1	EACH	PULL BOX, 725.08, 18"
							5		5	625	32000	5	EACH	GROUND ROD
dgn														
5002.							1 380		1 380	625 625	34001 36010	1 380	EACH FT	POWER SERVICE, AS PER PLAN (B)
09 61							1		560 1	625	76000	1	EACH	UNDERGROUND WARNING/MARKING TAPE ARC FLASH CALCULATIONS AND LABEL, (U.S. 250 & S.R. 151 PARK AND RIDE)
11264							-		-	020	,	-		
eets														LIGHTING
, AS/ve														JEF US 22/SR 7
adwa								28	28	625	00470	28	EACH	CONNECTION, UNFUSED BOLTED
Jg\Rc								20	20	625	00470	20	EACH	CONNECTION, UNFUSED PERMANENT
Jeerii								14	14	625	10491	14	EACH	LIGHT POLE, CONVENTIONAL, AS PER PLAN, DESIGN A6BB45
Engi								1,428	1,428	625	23400	1,428	FT	NO. 10 AWG POLE AND BRACKET CABLE
/400-								6,543	6,543	625	24320	6,543	FT	1-1/2" DUCT CABLE WITH THREE NO. 4 AWG 2400 VOLT CABLES
2649								6 5 4 2	6 5 4 2	625	25040	6.540		
1/11								6,543 28	6,543 28	625 625	25910 26253	6,543 28	FT EACH	CONDUIT CLEANED AND CABLES REMOVED LUMINAIRE, CONVENTIONAL, SOLID STATE (LED), AS PER PLAN, IES-II-M, LED, 22000-25052 LUMENS
offma1 11\D1	J							14	14	625	32000	14	EACH	GROUND ROD
당 승								14	14	625	39520	14	EACH	PULL BOX CLEANED
USER: S\Distri								LS	LS	SPECIAL	62540000	LS		MAINTAIN EXISTING LIGHTING Discor
PM														Switch with Enclosure, 7
15:02 ve Pro								10	10	625	75400	10	EACH	LIGHT POLE REMOVED CMRI-100-480
E: 4:								20	20	625	75506	20	EACH	LUMINAIRE REMOVED
TIM s\01								Ζ	2	625	75801	2	EACH	DISCONNECT CIRCUIT, AS PER PLAN
4/2025 cument														MAINTENANCE OF TRAFFIC
5/24/ Docu				50					50	614	11110	50	HOUR	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE
DATE: 6/24 DW-02\Doc														
ot-pv														INCIDENTALS
2(in 2)			LS						LS	614	11000	LS		
2C 34x2 2om:c									LS	624	10000	LS		MOBILIZATION
-FY2026 ERSIZE: 34x22 (in.) entlev.com:ohiodot-	\ 							1						
G-F PAPERS														
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EL: Sh														
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		GENERAL SUMMARY
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	P.26	
"Power Service As Per Plan (C)"	P.26	
	P.29	
	P.29	
connect Switch, 30 AMPDisconnect	P.29	
e, Type X, As Per PlanBallast Type	1123	
	P.29	DESIGN AGENCY
		DESIGN AGENUT
	l	
		DESIGNER
		REVIEWER DAH 03/04/25
		PROJECT ID
		112649
		SHEET TOTAL
		P.20 30

ITEM 625 - POWER SERVICE, AS PER PLAN (B)

THE POWER SUPPLYING AGENCY FOR THE US 250 AND SR 151 PART OF THIS PROJECT IS:

AEP OHIO POWER COMPANY ATTN: CUSTOMER SERVICE CENTER 1-800-277-2177

POWER SERVICE AT THIS LOCATION SHALL BE AS PER CMS ITEM 625 AND SCD HL-40.10 WITH THE FOLLOWING EXCEPTIONS:

THE CONTRACTOR SHALL MEET WITH A REPRESENTATIVE FROM 1. THE POWER SUPPLY AGENCY TO CONFIRM HOW THE PROPOSED POWER SERVICE IS TO BE WIRED, HOOKED UP, AND ITS LOCATION.

2. ALL POWER SERVICES SHALL BE METERED. THE METER SHALL HAVE A LEVER OPERATED BYPASS.

THE CONTRACTOR SHALL CONTACT THE METER SECTION OF THE POWER COMPANY FOR INFORMATION REGARDING THE METER BASE INSTALLATION PRIOR TO ORDERING POLES. THE CONTRACTOR WILL BE **RESPONSIBLE FOR REQUESTING AND SCHEDULING ANY INSPECTIONS** THE POWER COMPANY MAY REQUIRE FOR THE POWER SERVICE HOOK UP. THE CONTRACTOR SHALL BE RESPONSIBLE TO CONTACT THE POWER COMPANY THREE MONTHS PRIOR FOR THE NEED TO HAVE THE ELECTRICAL SERVICE CONNECTION MADE. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR SPLICE POWER CABLE INTO THE POWER COMPANY'S CIRCUITS. THE NOMINAL VOLTAGE SUPPLIED SHALL BE:

120 / 240 VOLTS 1 φ 3W GROUNDED NEUTRAL

THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ANY NECESSARY PERMITS AND THE PAYING OF ALL FEES. THE CONTRACTOR SHALL PAY ALL POWER CHARGES UNTIL THE LIGHTING IS ACCEPTED BY THE MAINTAINING AGENCY.

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

UPON COMPLETION OF THE ABOVE WORK, CHARGES MADE BY THE POWER COMPANY AS PER CMS 625.15 SHALL BE REIMBURSED TO THE CONTRACTOR BY THE MAINTAINING AGENCY AS PER CMS 625.15.

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

Removed Note "Item 625 - Power -Service, As Per Plan (C)"

SURVEYING PARAMETERS

PRIMARY PROJECT CONTROL MONUMENTS GOVERN ALL POSITIONING ON ODOT PROJECTS. SEE THIS SHEET FOR A TABLE CONTAINING **PROJECT CONTROL INFORMATION.**

USE THE FOLLOWING PROJECT CONTROL, VERTICAL POSITIONING, AND HORIZONTAL POSITIONING PARAMETERS FOR ALL SURVEYING:

PROJECT CONTROL

POSITIONING METHOD: OHIO REAL TIME NETWORK (2011), RTK, AND DIFFERENTIAL LEVELING MONUMENT TYPE: TYPE A

VERTICAL POSTIONING

ORTHOMETRIC HEIGHT DATUM: NAVD 88 GEOID: GEOID 18

HORIZONTAL POSITIONING

REFERENCE FRAME: NAD 83 (2011 ADJ, 2010.0) ELLIPSOID: GRS 1980 MAP PROJECTION: TRANSVERSE MERCATOR COORDINATE SYSTEM: OHIO COUNTY COORDINATE SYSTEM HARRISON LDP

ORIGIN LATIITUDE: N 38° 57' 00" ORIGIN LONGTITUDE: E 278° 54' 00" FALSE NORTHING (m): 0 FALSE EASTING (m): 50000

*THE LOW DISTORTION PROJECTION (LDP) IS A LOCAL COUNTY PROJECTION DEVELOPED BY ODOT. THE DISTORTION BETWEEN GROUND AND GRID IS SO MINIMAL THAT THERE IS NO NEED FOR A SCALE FACTOR TO ADJUST BETWEEN GRID AND GROUND COORDINATES. CONTACT THE DISTRICT SURVEY DEPARTMENT FOR FURTHER INFORMATION OR QUESTIONS.

USE THE POSITIONING METHODS AND MONUMENT TYPE USED IN THE ORIGINAL SURVEY TO RESTORE ALL MONUMENTS RELATED TO PRIMARY PROJECT CONTROL THAT ARE DAMAGED OR DESTROYED BY CONSTRUCTION ACTIVITIES. RESTORE THE DAMAGED OR DESTROYED MONUMENTS IN ACCORDANCE WITH CMS 623.

UNITS ARE IN U.S. SURVEY FEET

_Updated Note

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ARCH FLASH CALCULATIONS AND LABEL, (U.S. 250 & S.R. 151 PARK AND RIDE)

THIS ITEM OF WORK SHALL CONSIST OF PERFORMING ARC FLASH CALCULATIONS AND APPLYING AN EXTERNAL LABEL AS DESCRIBED IN SUPPLEMENTAL SPECIFICATION 825. THIS WORK SHALL BE PERFORMED FOR EACH DISCONNECT SWITCH, SIGNAL, CABINET, AND UPS ENCLOSURE. THE LABEL USED SHALL BE ODOT VERSION A (PREFERRED). THE FOLLOWING INTERSECTION SHALL HAVE THE CALCULATIONS PERFORMED AND LABEL APPLIED:

U.S. 250 & S.R. 151 PARK AND RIDE

PAYMENT FOR ITEM 625 ARC FLASH CALCULATIONS AND LABEL, (U.S. 250 & S.R. 151 PARK AND RIDE) SHALL BE MADE FOR EACH LOCATION AND SHALL BE FULL COMPENSATION FOR ALL LABOR, EQUIPMENT, MATERIALS, AND INCIDENTALS REQUIRED TO COMPLETE THE WORK.

PAD LOCKS AND KEYS

PADLOCKS FURNISHED SHALL BE EITHER BRASS OR BRONZE, EQUAL TO MASTER NO. 4BKA OR WILSON BOHANNAN 660A, AND SHALL BE KEYED IN ACCORDANCE WITH C&MS 631.06. PAYMENT SHALL BE INCLUDED IN THE BID FOR THE ITEM(S) BEING LOCKED.

UNDERDRAINS FOR PULL BOXES

REFERENCE TRAFFIC SCD HL-30.11 FOR DETAILS ABOUT DRAINING PULL BOXES. UNDERDRAINS FOR PULL BOXES SHALL BE USED AS DIRECTED BY THE ENGINEER AND SHALL BE PROVIDED WHERE THE LENGTH REQUIRED FOR A SATISFACTORY OUTLET DOES NOT EXCEED 20 FEET. THE FOLLOWING ESTIMATED QUANTITY IS CARRIED TO THE GENERAL SUMMARY FOR THIS PURPOSE:

COOPERATION BETWEEN CONTRACTORS

THE CONTRACTORIS HEREBY ADVISED THAT PROJECT HAS-151-0.00, PID 114467 MAY BE UNDER CONSTRUCTION DURING THE SAME PERIOD THIS PROJECT IS BEING CONSTRUCTED. UPON AWARD OF THIS CONTRACT, THE CONTRACTORS SHALL NOTIFY THE ENGINEER AND THE OTHER CONTRACTOS OF THE EFFECTS OF THIS CONTRACT UPON THE HAS-151-0.00 PROJECT. THE CONTRACT SHALL COOPERATE WITH THE OTHER CONTRACTORS IN ACCORDANCE WITH SEC. 105.08 AND ARRANGE A MUTUALLY ACCEPTABLE WORK SCHEDULE, SUBJECT TO THE APPROVAL OF THE ENGINEER. ANY CONFLICTS BETWEEN CONTRACTORS INVOLVING WORK SCHEDULES, WORK AREAS OR COOPERATION WILL BE RESOLVED BY THE ENGINEER.

	HAS-250/151 PARK AND RIDE PID 112649													
POINT ID	NORTHING	EASTING	ELEVATION	CODE	DESCRIPTION	STATION	OFFSET	ALIGNMENT						
C800	525042.052	118930.498	869.82	CMONS	LEVELED	OFF CHAIN	OFF CHAIN	CL_EXRW_SR151						
C801	524152.128	119169.043	864.95	CMONS	LEVELED	1+92.75	712.80 RT	CL_EXRW_SR151						
C802	524861.484	119723.583	888.29	CMONS	LEVELED	7+56.52	21.68 RT	CL_EXRW_SR151						
CL1	524861.797	118965.065	N/A	РОТ		0+00.00	CL	CL_EXRW_SR151						
CL2	524869.361	119444.305	N/A	TS		4+79.30	CL	CL_EXRW_SR151						
CL3	524903.481	119842.065	N/A	SC		8+79.30	CL	CL_EXRW_SR151						

LUMINAIRES FOR CONVENTIONAL LIGHTING UNITS WITH AN IES II-M-SC DISTRIBUTION AND 12073 - 14754 LUMEN OUTPUT SHALL BE ONE OF THE FOLLOWING:

PAYMENT WILL BE MADE AT THE UNIT BID PRICE FOR EACH CMS ITEM 625, "LUMINAIRE, CONVENTIONAL, SOLID STATE (LED), IES-II-M, LED, 12073 - 14754 LUMENS. AS PER PLAN" FOR EACH LUMINAIRE WHICH SHALL BE FULL COMPENSATION FOR ALL LABOR, MATERIALS AND INCIDENTAL REQUIRED TO COMPLETE THIS ITEM IN A SATISFACTORY AND WORKMANLIKE MANNER.

ITEM 625 - LUMINAIRE, CONVENTIONAL, SOLID STATE (LED) , IES-II-M, LED, 12073-14754 LUMENS, AS PER PLAN

IN ADDITION TO THE REQUIREMENTS OF ODOT'S CONSTRUCTION AND MATERIAL SPECIFICATIONS, LUMINAIRES ARE CONVENTIONAL LIGHTING UNITS SHALL BE AS FOLLOWS:

- 1. ATBM-P20-MVOLT-R2-3K
- 2. SMX-96WiE-LL5-3070-T202
- 3. NVM-SA2D-730-U-T2
- 4. OR EQUAL, AS APPROVED BY THE ENGINEER

INTERM COMPLETION DATE

THIS PROJECT HAS AN INTERM COMPLETION DATE OF 06/01/2026 FOR ALL ASSOCIATED WORK FOR U.S. 250 & S.R. 151 PARK AND RIDE

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