SHEET NO.	INDEX OF SHEETS
1	COVER SHEET
2	SIGNATURE SHEET
3	INDEX OF SHEEETS, STANDARDS & GENERAL NOTES
4	SUMMARY OF QUANTITIES
5	SUMMARY OF QUANTITITES-CONTINUED
6–20	LIGHTING PLANS

STANDARDS:

701101-05 OFF ROAD OPERATION-MULTILANE-LESS THAN 15 FT TO EOP 701106-02 OFF ROAD OPERATION-MULTILANE-MORE THAN 15 FT AWAY 701400-08 APPROACH TO LANE CLOSURE -FREEWAY EXPRESSWAY 701406-10 LANE CLOSURE FREEWAY EXPRESSWAY -DAY OPERATION ONLY 701428-01 TRAFFIC CONTROL SETUP REMOVAL FREEWAY EXPRESSWAY 701456-03 PARTIAL EXIT RAMP CLOSURE FREEWAY EXPRESSWAY 701901-05 TRAFFIC CONTROL DEVICES 805001-01 ELECTRIC SERVICE INSTALLATION DETAILS 812001 RACEWAY EMBEDDED IN STRUCTURE 821101-01 LUMINAIRE WIRING DIAGRAM 825026-03 LIGHTING CONTROLLER BASE MOUNT 480V \$30006-03 LIGHT POLE ALUMINUM DAVIT ARM 830026 TEMPORARY ROADWAY LIGHTING 836001-02 LIGHT POLE FOUNDATION 838001 BREAKWAY DEVICES 830001-03 LIGHT POLE ALUMINUM MAST ARM)

GENERAL NOTES

WHERE STEEP SLOPE REDUCES MOUNTING HEIGHT BY MORE THAN 5 FEET, THE SETBACK SHALL BE REDUCED AS DIRECTED BY THE ENGINEER.

LIGHT POLES SHALL NOT BE LOCATED IN TREES. REDUCE SETBACK AS NEEDED TO PREVENT TREES FROM BLOCKING THE LIGHT AS DIRECTED BY THE ENGINEER.

ALL PROPOSED LIGHTING UNITS SHALL BE LABELED ACCORDING TO THE STANDARD SPECIFICATIONS, WITH POLE NUMBERS ATTACHED WITH STAINLESS STEEL BANDING. LIGHTING UNIT NUMBERING SHALL BE AS DIRECTED BY THE ENGINEER.

THE SIX (6) BEST EXISTING LIGHT POLES, ARMS AND TRANSFORMER BASES SHALL BE SALVAGED AND DELIVERED TO THE MT VERNON MAINTENANCE YARD TO THE ATTENTION OF SCOTT STOKES. THE REMAINING LIGHT POLES, ARMS, LUMINAIRES, TRANSFORMER BASES AND FOUNDATIONS SHALL BE REMOVED, AND ALL ASSOCIATED HARDWARE AND APPURTENANCES, SHALL NOT BE SALVAGED BUT SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF OFF SITE AT THE CONTRACTOR'S EXPENSE.

CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE ELECTRICAL WORK WITH OTHER TRADES.

CONTRACTOR SHALL INSTALL LIGHT POLES AT THE LOCATIONS INDICATED ON THE PLANS, MAINTAINING ADEQUATE CLEARANCE FROM OVERHEAD UTILITY LINES. CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY CLEARANCES PER THE NATIONAL ELECTRICAL SAFETY CODE AND/OR THE REQUIREMENTS OF THE UTILITY COMPANIES. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ALL CONFLICTS BETWEEN PROPOSED LIGHT POLE LOCATIONS AND UTILITY LINES. THE LOCATION OF BURIED AND ABOVE GROUND UTILITIES SHOWN ARE APPROXIMATE AND ARE SHOWN FOR INFORMATION ONLY. REROUTING, DISCONNECTION, RELOCATION, PROTECTION ETC., OF ANY UTILITIES MUST BE COORDINATED BETWEEN THE CONTRACTOR, UTILITY COMPANY, AND OWNER. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.

THE CONTRACTOR IS RESPONSIBLE FOR UNCOVERING OR HAND DIGGING AROUND UTILITIES AS NECESSARY. THE COST OF THIS WORK IS TO BE INCLUDED WITH THE APPLICABLE UNDERGROUND CONDUIT OR UNIT DUCT PAY ITEM

PROPOSED LIGHT POLES ARE TO BE INSTALLED AT A 20 FEET SETBACK FROM THE EDGE OF TRAVELED PAVEMENT (THE WHITE STRIPE) OR 5 FEET BEHIND THE GUARDRAIL UNLESS NOTED OTHERWISE ON THE PLANS. NO POLES TO BE INSTALLED IN THE FLOWLINE OF DITCH. POLE SETBACK TO BE INCREASED IF NECESSARY AS DIRECTED BY THE ENGINEER.

NO LIGHTING CIRCUIT OR PORTION THEREOF SHALL BE REMOVED FROM NIGHTTIME OPERATION WITHOUT APPROVAL OF THE ENGINEER.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE LIGHTING SYSTEM UNTIL IDOT HAS TAKEN ACCEPTANCE OF THE SYSTEM. ALL EXISTING CIRCUITS AND CABLES TO THE LIGHT POLES SHALL BE MAINTAINED AS NEEDED AND THIS WORK SHALL BE INCIDENTAL TO THE CONTRACT.

BREAKAWAY DEVICES SHALL NOT BE INSTALLED FOR POLES LOCATED BEHIND THE GUARDRAIL OR MOUNTED ON BRIDGE PARAPET WALLS.

UNDERGROUND COLLABLE NON-METALLIC CONDUIT SHALL BE SCHEDULE 80.

LIGHT POLE FOUNDATIONS SHALL BE INSTALLED PLUMB AND FLUSH WITH
THE PROPOSED GRADE AND SHALL MEET THE HEIGHT REQUIREMENTS OF ARTICLE
836.03 OF THE STANDARD SPECIFICATIONS. AFTER UNIT DUCT IS INSTALLED,
FOUNDATIONS SHALL BE FILLED WITH FINE AGGREGATE ACCORDING TO ARTICLE 836.03.
WASHERS USED TO INSTALL THE POLE SHALL BE LARGE ENOUGH TO FULLY COVER THE
SLOTTED HOLES IN THE POLE BASE PLATE. THE VOIDS ON THE BOTTOM SIDE OF THE
ALUMINUM POLE BASE MUST BE SEALED FROM RODENT ENTRY WITH STAINLESS STEEL SCREEN.

A Rev. 7-20-16

FILE NAME : Jockson	c DESIGNED ~	REVISED -			INDI	X OF SHEETS		RTE.	SECTION COUNTY TOTAL SHEET NO.
PHINICON TERMINATE CONTRACTOR OF THE PROPERTY	atrict 9\Prajects\785bDRAWWto\CADahoeta\Lightin		STATE OF ILLINOIS	HIGHWA	Y STANDA	ARDS AND GEI	NERAL NOTES	157/64	(41-3,41-3-1)L-1
PLOT SCALE × 189.888 Befoult PLOT DATE × 5/24/2	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	SCALE: SHEET	OF	SHEETS STA.	TO STA.	┪	CONTRACT NO. 78507

SUMMARY OF QUANTITIES

COUNTY:	Jefferson County (081)
ROUTE:	157/164
FUNDING:	90%FED 10% STATE
LOCATION:	URBAN

			LOCATION:	URBAN	
CODE	ITEM DESCRIPTION	UNIT	TOTAL	ROADWAY	
NUMBER			QUANTITY	0021	
67100100	MOBILIZATION	LSUM	1	1	
70100700	TRAFFIC CONTROL AND PROTECTION, STANDARD 701406	LSUM	1	1	
70100825	TRAFFIC CONTROL AND PROTECTION, STANDARD 701456	LSUM	1	1	
80400100	ELECTRIC SERVICE INSTALLATION	EACH	2	2	
81028750	UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 2" DIA.	FOOT	850	850	
81300550	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12" X 12" X 6"	EACH	8	8	
81603000	UNIT DUCT, 600V, 2-1C NO.8, 1/C NO.8 GROUND, (XLP-TYPE USE), 3/4" DIA. POLYETHYLENE	FOOT	8050	8050	
81603030	UNIT DUCT, 600V, 2-1C NO.4, 1/C NO.6 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE	FOOT	2200	2200	
81603040	UNIT DUCT, 600V, 2-1C NO.6, 1/C NO.8 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE	FOOT	19000	19000	
81702120	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 8	FOOT	160	160	
81702130	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 6	FOOT	480	480	
81702140	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 4	FOOT	320	320	
82500360	LIGHTING CONTROLLER, BASE MOUNTED, 480VOLT, 100AMP	EACH	2	2	
83010600	LIGHT POLE, ALUMINUM, 50 FT. M.H., 15 FT. (MAST ARM)	EACH	92	92	

FILE NAME > USER NAME * jacks umente\8007 Officea\District 9\Projects\785 OBANNts\ChOshente\Lighting sheetsidgn REVISED -PHI//ILOSIESSIDINTEG.: Ilinois-goviPWIDOT/ PLDT SCALE . 188.2000 '/ in. CHECKED -REVISED DATE REVISED -PLOT DATE . 5/5/2816

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES OF SHEETS STA. SHEET

TO STA.

SCALE

A Rev. 7.20-16 | CONTRACT NO. 78507 RTE 157/64 (41-3,41-3-1)(-1

NOTES

ALL SIGN LUNINAIRES IN PROJECT LIMITS SHALL BE REMOVED AS PER SPECIAL PROVISION AND AS DIRECTED BY THE ENGINEER.

ALL LIGHT POLES ARE SET BACK 20 FT FROM ACTIVE LANE (WHITE STRIPE) UNLESS OTHERWISE NOTED.

WHERE GUARDRAIL IS PRESENT, LIGHT POLES ARE SET BACK 5 FT BEHIND GUARDRAIL.

UNIT DUCT IS (2) UNLESS OTHERWISE NOTED.

FOR BRIDGE CROSSING CONDUIT SEE HIGHWAY STANDARD 812001.

DUCT TYPES

- () UNIT DUCT, 600V, 2-IC NO. 4, 1/C NO. 6 GROUND (XLP-TYPE USE) 1" DIA. POLYETHYLENE
- ② UNIT DUCT, 600V, 2-IC NO. 6, 1/C NO. 8 GROUND (XLP-TYPE USE) 1" DIA. POLYETHYLENE
- (3) UNIT DUCT, 600V, 2-IC NO. 8, 1/C NO. 8 GROUND (XLP-TYPE USE) 3/4" DIA. POLYETHYLENE

SPACING CONFIGURATION

PLOT SCALE + 100.0000 1/ in.

PLOT DATE + 6/24/2016

ROUTE 1-57/64 INTERCHANGE LUMINAIRE PERFORMANCE TABLE

GIVEN CONDITIONS

ROADWAY DATA	PAVEMENT WIDTH NUMBER OF LANES I.E.S. SURFACE CLASSIFICATION O-ZERO VALUE	7.3 m (24 FT.) 2 R3 .07
LIGHT POLE DATA	MOUNTING HEIGHT MAST ARM LENGTH POLE SET-BACK FROM EOP	50 FT. 15 FT. 20 FT
LUMINAIRE DATA	LAMP TYPE LAMP LUMENS I.E.S. VERTICAL DISTRIBUTION BUG RATING I.E.S. LATERAL DISTRIBUTION LUMEN DEPRECIATION DIRT DEPRECIATION EOUIPMENT FACTOR TOTAL LIGHT LOSS FACTOR	LED 20,000 (MIN,) MEDIUM U=0 TYPE III 0.90 0.80 0.95 0.684

NOTE:

LAYOUT DATA

- VARIATIONS FROM THE ABOVE SPECIFIED I.E.S. DISTRIBUTION PATTERN MAY BE REQUESTED AND ACCEPTANCE OF VARIATIONS WILL BE SUBJECT TO REVIEW BY THE ENGINEER BASED ON HOW WELL THE PERFORMANCE REQUIREMENTS ARE MET.
- 2. A LUMEN DEPRECIATION VALUE GREATER THAN 0.90 FOR LED LIGHT SOURCES SHALL BE BASED UPON I.E.S. LM-80 OR I.E.S. LM-84 AND I.E.S. TM-21 TEST REPORTS.

100 m (330 FT)

SINGLE SIDED

REVISED

REVISED

REVISED

REVISED -

PERFORMANCE REQUIREMENTS: THESE PERFORMANCE REQUIREMENTS SHALL BE THE MINIMUM ACCEPTABLE STANDARDS OF PHOTOMETRIC PERFORMANCE FOR THE LUMINAIRE, BASED ON THE GIVEN CONDITIONS LISTED ABOVE.

LUMINANCE

FILE NAME .

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AVERAGE LUMINANCE, L_{AVE} 0.4 Cd/m²(MIN)
UNIFORMITY RATIO, L_{AVE}/L_{MIN} 3.5:1 (MAX)
UNIFORMITY RATIO, L_{MAX}/L_{MIN} 6.0:1 (MAX)
MAX. VEILING LUMINANCE RATIO, L_V/L_{AVE} 0.5:1 (MAX)

DESIGNED -

CHECKED -

DATE

ents/1007 Offices/District 9/Projects/785PBRANNIA/C/Goharts/Lighting sheets.dgn

REMOVAL LEGEND

MR EXISTING LIGHTING UNIT TO BE REMOVED

EXISTING CONTROLLER TO BE REMOVED

-R EXISTING SERVICE TO BE REMOVED

PROPOSED ITEMS LEGEND

PROPOSED LIGHTING UNIT, 50' ALUMINUM POLE, 15 FT. DAVIT ARM, HORIZONTAL MOUNT LED. M-3-FULL CUTOFF, INSTALLED ON METAL FOUNDATIONS WITH BREAKWAY COUPLING DEVICES AND STAINLESS STEEL SCREEN.

PROPOSED UNDERGROUND CONDUIT, COILABLE NON-METALIC, 2 IN. DIA., LENGTH AS NOTED

PROPOSED UNIT DUCT, SIZED AS NOTED

PROPOSED LIGHTING CONTROLLER, BASE MOUNTED, 480V, 100A

JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE 300×300×150 (12"×12"×6")

ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE), SIZE AS NOTED.

PROPOSED ELECTRIC SERVICE INSTALLATION 240/480V 1 PHASE 3 WIRE.

A Rev. 7-20-16

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	I-57/64 TRI-LEVEL INTERCHANGE					F.A.I. RTE.	SECTION	COUNTY	SHEETS	SHEE NO.
	LIGHTING PLANS					157/64	(41-3,41-3-1)[-1	JEFFERSON	18	6
								CONTRACT	NO. 7	78276
	SCALE:	SHEET	OF		STA.	TO STA,		ILLINOIS FED. A	D PROJECT	

