

GENERAL NOTES:

- ALL NEW CONDUIT, UNIT DUCTS, DIRECT BURIAL CABLE, AND APPURTENANCES ARE INDICATED DIAGRAMMATICALLY ON THE DRAWINGS. THE ACTUAL LOCATIONS IN THE FIELD ARE TO BE SURVEYED AND STAKED BY THE CONTRACTOR. THESE LOCATIONS SHALL MEET WITH APPROVAL OF THE ENGINEER PRIOR TO INSTALLATION AND CONSTRUCTION.
- THE ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE IDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND ASSOCIATED SUPPLEMENTAL SPECIFICATIONS. ELECTRICAL WORK IN THE AREA UNDER TOLLWAY JURISDICTION SHALL BE ALSO BE IN ACCORDANCE WITH THE TOLLWAY SUPPLEMENTAL SPECIFICATIONS (TOLLWAY SUPPLEMENTAL SPECIFICATIONS GOVERN OVER IDOT STANDARD AND SUPPLEMENTAL SPECIFICATIONS).
- THE CONTRACTOR SHALL FURNISH AND INSTALL LUMINAIRE LAMPS IN ACCORDANCE WITH THE SUPPLIER'S RECOMMENDATIONS AND IN ACCORDANCE WITH THE SPECIFICATIONS. ALL LUMINAIRES SHALL BE ORIENTED WITH THE OPTICS PERPENDICULAR TO THE ROADWAY UNLESS OTHERWISE INDICATED OR DIRECTED BY THE ENGINEER. THE COST OF THIS WORK AND MATERIAL SHALL BE INCLUDED IN THE APPLICABLE LUMINAIRE PAY ITEM.
- CONDUITS AND UNIT DUCTS SHALL BE INSTALLED AT A MINIMUM 30 INCHES DEPTH BELOW GRADE AND POSITIONED IN THE FIELD TO AVOID CONFLICT WITH ROADWAY UNDER DRAINS AND OTHER EXISTING AND PROPOSED UTILITIES. THE CONTRACTOR SHALL INCREASE DEPTH OF UNIT DUCT AND CONDUIT AS REQUIRED AT NO ADDITIONAL COST. THE CONTRACTOR SHALL COORDINATE RACEWAY DEPTH WITH THE ELECTRICAL DETAILS AND THE ENGINEER.
- WHERE THE CONTRACTOR'S EXCAVATION MEETS AN OBSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER FOR DIRECTION IN WRITING PRIOR TO EXCAVATION. THE CONTRACTOR SHALL RESTORE ANY DAMAGE TO EXISTING SYSTEMS OR UTILITIES AND REMOVE EXISTING OBSTRUCTIONS AND FOUNDATIONS TO THE SATISFACTION OF THE ENGINEER. THIS WORK SHALL BE PAID ACCORDING TO 109.04(B) OF THE IDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION.
- WHEREVER THE TEMPORARY AERIAL CABLE IS REQUIRED TO CROSS AN EXISTING AND/OR PROPOSED ROADWAY, THE CONTRACTOR SHALL MAINTAIN A MINIMUM OF 20 FEET OF VERTICAL CLEARANCE OVER THE ROADWAY AT ALL TIMES.

HIGHWAY STANDARD

- 814001-02 HANDHOLES
- 825011-02 LIGHTING CONTROLLER PEDESTAL MOUNTED, 240V
- 830021 LIGHT POLE STEEL TENON TOP
- 836001-01 LIGHT POLE FOUNDATION

TEMPORARY LIGHTING NOTES:

ROCKTON RD GENERAL NOTES:

- ONLY THE POLES IDENTIFIED TO BE ACTIVE IN EACH STAGE SHALL BE CONNECTED TO THE CONTROLLER DURING THAT STAGE.
- CONTRACTOR TO LOCATE ALL EXISTING CONDUITS PRIOR TO INSTALLING TEMPORARY LIGHTING.
- CONTRACTOR TO VERIFY CIRCUITRY OF EXISTING LIGHTING PRIOR TO ALTERING THE EXISTING CONTROLLER OR INSTALLATION OF TEMPORARY LIGHTING.

ROCKTON ROAD ENTRANCE RAMP:

STAGE 1A:

- TEMPORARY RAMP BEING CONSTRUCTED DURING PHASE.
- TRAFFIC ON EXISTING RAMP ALIGNMENT AND EXISTING LIGHTING TO REMAIN IN PLACE.
- INSTALL TEMPORARY LIGHTING TO BE CONNECTED TO NEW 60A,120/240V, SINGLE PHASE CONTROLLER ADJACENT TO EXISTING CONTROLLER.
- INSTALL PROPOSED UNIT DUCT AND CONDUIT FROM THE CONTROLLER TO HANDHOLE (FOR CROSSING UNDER I-90) AT EAST SIDE OF ENTRANCE RAMP.
- CONNECT TEMPORARY LIGHTING TO HANDHOLE (FOR CROSSING UNDER I-90) AND GO AERIALY TO PROPOSED TEMPORARY LIGHT POLES.
- TEMPORARY LIGHTING TO BE READY, BUT NOT ACTIVATED, PRIOR TO BEGINNING OF STAGE 1B.

STAGE 1B:

- WHEN THE TRAFFIC IS MOVED TO THE TEMPORARY RAMP, TURN OFF THE EXISTING LIGHTS FOR THE ENTRANCE RAMP AND ACTIVATE THE TEMPORARY LIGHTING.
- PROPOSED LIGHTING TO BE INSTALLED DURING THIS STAGE AND OPERATIONAL, BUT NOT ACTIVATED, PRIOR TO BEGINNING STAGE 2A.

STAGE 2A:

- WHEN TRAFFIC IS MOVED TO PROPOSED RAMP, ACTIVATE THE PROPOSED LIGHTING AND REMOVE THE TEMPORARY LIGHTING.

ROCKTON ROAD EXIT RAMP:

STAGE 1A:

- TRAFFIC IS ON EXISTING RAMP ALIGNMENT AND EXISTING LIGHTING TO REMAIN IN PLACE.
- INSTALL TEMPORARY LIGHTING TO BE CONNECTED TO NEW 60A,120/240V, SINGLE PHASE CONTROLLER ADJACENT TO EXISTING CONTROLLER.
- INSTALL PROPOSED UNIT DUCT AND CONDUIT FROM THE CONTROLLER TO HANDHOLE (FOR CROSSING UNDER I-90) AT WEST SIDE OF EXIT RAMP.
- CONNECT TEMPORARY LIGHTING TO HANDHOLE (FOR CROSSING UNDER I-90) AND GO AERIALY TO PROPOSED TEMPORARY LIGHT POLES.
- TEMPORARY LIGHTING TO BE READY, BUT NOT ACTIVATED, PRIOR TO BEGINNING OF STAGE 1B.

TEMPORARY LIGHTING NOTES (CONT.):

STAGE 1B:

- TRAFFIC IS ON EXISTING RAMP ALIGNMENT.
- WHEN TEMPORARY LIGHTING IS ACTIVATED FOR ROCKTON ROAD ENTRANCE RAMP, ACTIVATE THE TEMPORARY LIGHTING FOR ROCKTON ROAD EXIT RAMP SO THAT EXISTING CONTROLLER CAN BE REMOVED FROM SERVICE.
- TEMPORARY RAMP IS TO BE CONSTRUCTED DURING THIS STAGE.

STAGE 2A & 2B:

- TRAFFIC IS TO BE MOVED TO TEMPORARY RAMP.
- TEMPORARY LIGHTING TO REMAIN IN PLACE THROUGHOUT STAGES.
- PROPOSED LIGHTING IS BEING INSTALLED DURING THESE STAGES AND READY FOR ACTIVATION PRIOR TO STAGE 3.

STAGE 3:

- WHEN TRAFFIC IS MOVED TO PROPOSED ALIGNMENT OF RAMP, ACTIVATE THE PROPOSED LIGHTING AND REMOVE THE TEMPORARY LIGHTING

RAMP "C":

GENERAL NOTES:

- ONLY THE POLES IDENTIFIED TO BE ACTIVE IN EACH STAGE SHALL BE CONNECTED TO THEIR RESPECTIVE CONTROLLER DURING THAT STAGE.
- CONTRACTOR TO LOCATE ALL EXISTING CONDUITS PRIOR TO INSTALLING TEMPORARY LIGHTING.
- CONTRACTOR TO VERIFY CIRCUITRY OF EXISTING LIGHTING PRIOR TO ALTERING THE EXISTING CONTROLLER OR INSTALLATION OF TEMPORARY LIGHTING.
- VISITOR CENTER IS TO BE CLOSED DURING CONSTRUCTION.

STAGE 1A:

- TRAFFIC IS ON EXISTING RAMP ALIGNMENT UNTIL TEMPORARY LIGHTING IS INSTALLED NEAR VISITOR CENTER FOR THIS STAGE.
- THE EXISTING LIGHTING TO REMAIN IN PLACE AND OPERATIONAL AT RAMP C.
- TIE TEMPORARY LIGHTING NEAR VISITOR CENTER INTO VISITOR CENTER EXISTING LIGHTING CIRCUIT FOR POLES 1 THROUGH 5.
- EXISTING POLES 1 THROUGH 5 OF THE VISITOR CENTER LIGHTING SHALL BE DISCONNECTED PRIOR TO ACTIVATING THE TEMPORARY LIGHTING.
- INSTALL TEMPORARY LIGHTING FOR STAGE 1B.
- RAMP C TEMPORARY LIGHTING TO BE CONNECTED TO EXISTING CIRCUIT. DO CONNECT TEMPORARY LIGHTING TO CONTROLLER #2 UNTIL POLES 24 THROUGH 26 OF RAMP C HAVE BEEN DISCONNECTED FROM THE CONTROLLER.
- TEMPORARY LIGHTING TO BE IN PLACE AND READY FOR ACTIVATION PRIOR TO BEGINNING OF STAGE 1B.
- VISITOR CENTER LIGHT POLES 1 THROUGH 3 ARE TO BE RELOCATED DURING STAGES 1A AND 1B.

STAGE 1B:

- WHEN THE TRAFFIC IS MOVED TO THE TEMPORARY RAMP, DISCONNECT EXISTING LIGHT POLES NOS. 24 THROUGH 26 AND ACTIVATE THE TEMPORARY LIGHTING.
- POLES NOS. 24 AND 25 ARE TO BE RELOCATED AND INSTALLED DURING THIS STAGE AND READY FOR ACTIVATION, BUT NOT ACTIVATED, PRIOR TO BEGINNING STAGE 2A.
- REMOVE TEMPORARY LIGHTING NEAR THE VISITOR CENTER.

STAGE 2A:

- WHEN TRAFFIC IS MOVED TO PROPOSED RAMP, DISCONNECT THE STAGE 1B RAMP C TEMPORARY LIGHTING AND RECONNECT LIGHT POLE NOS. 24 THROUGH 26.
- REMOVE THE RAMP C TEMPORARY LIGHTING.

RAMP "B":

STAGES 1A & 1B:

- TRAFFIC IS ON EXISTING RAMP ALIGNMENT AND EXISTING LIGHTING TO REMAIN IN PLACE UNTIL TEMPORARY LIGHTING CAN BE INSTALLED DURING STAGE 2A.
- TEMPORARY LIGHTING TO BE INSTALLED BUT NOT ACTIVATED IN STAGE 1.

STAGE 2A:

- TEMPORARY LIGHTING TO BE CONNECTED TO EXISTING CIRCUIT IN STAGE 2A.
- EXISTING POLES 18, 19, 20 AND 23 OF RAMP B ARE TO BE DISCONNECTED FROM THE CONTROLLER IN THIS STAGE AND TEMPORARY POLES TB-1 THROUGH 5 ARE TO BE CONNECTED TO THE CONTROLLER AFTER THE IDENTIFIED EXISTING POLES HAVE BEEN DISCONNECTED FROM THE CONTROLLER.
- WHEN TRAFFIC IS MOVED TO INSIDE ALIGNMENT, THE TEMPORARY LIGHTING SHALL BE ACTIVATED.
- PROPOSED LIGHTING IS BEING INSTALLED DURING STAGES 2A AND 2B, READY FOR ACTIVATION PRIOR TO STAGE 3.

STAGE 2B:

- TEMPORARY LIGHTING FOR THIS STAGE CONSISTS OF EXISTING POLES 16, 17, 21, 22 AND 23 AND TEMPORARY LIGHT POLES TB-1 THROUGH TB-3, TB-6 AND TB-7.
- TEMPORARY LIGHT POLES TB-4 AND TB-5 WILL BE DISCONNECTED FROM THE CONTROLLER PRIOR TO ACTIVATING THE STAGE 2B TEMPORARY LIGHTING.
- REMOVE TEMPORARY LIGHT POLES TB-4 AND TB-5.

STAGE 3:

- WHEN TRAFFIC IS MOVED TO PROPOSED ALIGNMENT OF RAMP, DISCONNECT THE STAGE 2B TEMPORARY LIGHTING FROM THE CONTROLLER AND ACTIVATE THE PROPOSED LIGHTING.
- REMOVE THE TEMPORARY LIGHTING.

LEGEND

- 1 UNIT DUCT, 600V, 2-1C NO.6, 1/C NO.6 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE
- 2 UNIT DUCT, 600V, 2-1C NO.2, 1/C NO.2 GROUND, (XLP-TYPE USE), 1/4" DIA. POLYETHYLENE
- 3 UNIT DUCT, 600V, 4-1C NO.2, 1/C NO.4 GROUND, (XLP-TYPE USE), 1/2" DIA. POLYETHYLENE
- 4 AERIAL CABLE, 2-1/C NO.2 WITH MESSENGER WIRE
- 5 AERIAL CABLE, 4-1/C NO.2/0 WITH MESSENGER WIRE
- 6 AERIAL CABLE, 4-1/C NO.2 WITH MESSENGER WIRE
- 7 AERIAL CABLE, 2-1/C NO.6 WITH MESSENGER WIRE
- 8 UNIT DUCT, WITH 4-1/C NO.2 AND 1/C NO.8 GROUND, 600V (XLP-TYPE USE) 2" DIA. CNC
- 9 AERIAL CABLE, 2-1/C NO.2/0 WITH MESSENGER WIRE
- 10 UNIT DUCT, 600V, 2-1C NO.4, 1/C NO.4 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE
- 11 UNIT DUCT, 600V 2-1C NO.8, 1C NO.8 GROUND, (XLP-TYPE USE) 2" DIA. CNC
- 12 UNIT DUCT, WITH 2-1/C NO. 2 AND 1/C NO. 8 GROUND, 600V (XLP-TYPE USE), 2" DIA. CNC
- EXISTING LIGHT POLE TO REMAIN (UNLESS NOTED OTHERWISE)
- EXISTING LIGHTING CONTROLLER
- PROPOSED LIGHTING CONTROLLER
- TEMPORARY WOOD POLE, 40 FT, CLASS 4 (UNLESS NOTED OTHERWISE)
- PROPOSED HAND HOLE
- PROPOSED TEMPORARY LIGHT POLE, WOOD, 45 FT MH WITH (1) 250W HPS VAPOR MM FIXTURE (UNLESS NOTED OTHERWISE)
- PROPOSED TEMPORARY BREAKAWAY POLE 45 FT M.H. TENON MOUNT WITH 250W HPS MM FIXTURE (UNLESS NOTED OTHERWISE)
- PROPOSED LIGHT POLE, WEATHERING STEEL, 45 FT. M.H., TENON MOUNT WITH (1) 250W HPS VAPOR MM FIXTURE
- PROPOSED LIGHT POLE, WEATHERING STEEL, 45 FT. M.H., TENON MOUNT WITH (1) 400W HPS VAPOR MM FIXTURE
- PROPOSED TEMPORARY LIGHT POLE, WOOD, 45 FT MH, WITH (1) 400W HPS VAPOR FIXTURE, 8 FEET MAST ARM

SCHEDULE OF QUANTITIES

PAY ITEM	DESCRIPTION	UNIT	TOTAL
80300100	LOCATING UNDERGROUND CABLE	FOOT	4,755
81028390	UNDERGROUND CONDUIT, PVC, 4" DIA.	FOOT	325
81200270	CONDUIT EMBEDDED IN STRUCTURE, 4" DIA., PVC	FOOT	374
81400100	HANDHOLE	EACH	2
81603025	UNIT DUCT, 600V, 2-1C NO.4, 1/C NO.4 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE	FOOT	1,259
81603035	UNIT DUCT, 600V, 2-1C NO.6, 1/C NO.6 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE	FOOT	2,576
81603065	UNIT DUCT, 600V, 2-1C NO.2, 1/C NO.2 GROUND, (XLP-TYPE USE), 1/4" DIA. POLYETHYLENE	FOOT	2,315
81603095	UNIT DUCT, 600V, 4-1C NO.2, 1/C NO.4 GROUND, (XLP-TYPE USE), 1/2" DIA. POLYETHYLENE	FOOT	904
81800190	AERIAL CABLE, 2-1/C NO. 2 WITH MESSENGER WIRE	FOOT	265
81800400	AERIAL CABLE, 4-1/C NO. 2 WITH MESSENGER WIRE	FOOT	385
82103900	LUMINAIRE, SODIUM VAPOR, MULTI-MOUNT, 250 WATT	EACH	26
82104000	LUMINAIRE, SODIUM VAPOR, MULTI-MOUNT, 400 WATT	EACH	4
82500330	LIGHTING CONTROLLER, PEDESTAL MOUNTED, 240VOLT, 60AMP	EACH	1
83062730	LIGHT POLE, WEATHERING STEEL, 45 FT. M.H., TENON MOUNT	EACH	30
83600300	LIGHT POLE FOUNDATION, 30" DIAMETER	FOOT	195
83800650	BREAKAWAY DEVICE, COUPLING WITH STAINLESS STEEL SCREEN	EACH	120
84100110	REMOVAL OF TEMPORARY LIGHTING UNIT	EACH	61
84200500	REMOVAL OF LIGHTING UNIT, SALVAGE	EACH	20
84200804	REMOVAL OF POLE FOUNDATION	EACH	20
84400105	RELOCATE EXISTING LIGHTING UNIT	EACH	1
84500110	REMOVAL OF LIGHTING CONTROLLER	EACH	1
X8950130	MODIFY EXISTING LIGHTING CONTROLLER	EACH	1
#2000241	TEMPORARY LIGHTING SYSTEM, LOCATION 1	L SUM	1
#2000242	TEMPORARY LIGHTING SYSTEM, LOCATION 2	L SUM	1
#2000243	TEMPORARY LIGHTING SYSTEM, LOCATION 3	L SUM	1
#2000244	TEMPORARY LIGHTING SYSTEM, LOCATION 4	L SUM	1
#2000245	TEMPORARY LIGHTING SYSTEM, LOCATION 5	L SUM	1
JS814001	HANDHOLE, TOLLWAY	EACH	5
JS816031	UNIT DUCT, WITH 2-1/C NO. 2 AND 1/C NO. 8 GROUND, 600V (XLP-TYPE USE), 2" DIA. CNC	FOOT	2,392
JS816034	UNIT DUCT, WITH 2-1/C NO. 8 AND 1/C NO. 8 GROUND, 600V (XLP-TYPE USE), 2" DIA. CNC	FOOT	762
JS816035	UNIT DUCT, WITH 4-1/C NO. 2 AND 1C NO. 8 GROUND, 600V (XLP-TYPE USE), 2" DIA. CNC	FOOT	387
JS819001	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	2,086
JS821003	TEMPORARY LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 400 WATT	EACH	4
JS821014	SIGN LUMINAIRE, 85 WATT INDUCTION	EACH	10
JS823001	SIGN STRUCTURE WIRING, OVERHEAD SIGN	EACH	2
JS823003	SIGN STRUCTURE WIRING, BRIDGE MOUNTED SIGN	EACH	1
JS830027	TEMPORARY WOOD POLE, 50 FT., CLASS 4	EACH	7
JS842080	REMOVAL OF EXISTING LIGHTING UNIT, SALVAGE	EACH	3
JS842090	REMOVAL OF SIGN LUMINAIRE	EACH	10
JS842105	POLE FOUNDATION, REMOVED	EACH	2
JS846001	MAINTAIN LIGHTING SYSTEM	L SUM	1

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