

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 404	(90-12)L	TAZEWELL	11	1
ILLINOIS CONTRACT NO. 68G64				

D-94-066-21

11-5-2021 LETTING ITEM 041

INDEX OF SHEETS

SEE SHEET 2 FOR INDEX OF SHEETS

HIGHWAY STANDARDS

SEE SHEET 2 FOR A LIST OF APPLICABLE HIGHWAY STANDARDS

PROJECT DESCRIPTION

REMOVE AND REPLACE EXISTING HIGH MAST LIGHT TOWER, LUMINAIRES, AND CONCRETE FOUNDATION ON RIVERFRONT DR. SPUR, EAST OF WASHINGTON ST. IN EAST PEORIA.

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811

PROJECT ENGINEER: TREVOR HANSON (309) 671-4474
PROJECT MANAGER: BEN TELLEFSON (309) 671-4477
CATALOG NO. 36250-00D
CONTRACT NO. 68G64

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY PLANS**

FAP 404 (RIVERFRONT DRIVE SPUR)

SECTION (90-12)L
TAZEWELL COUNTY

NHPP-JFEI(182)

C-94-087-21



RIVERFRONT DR. SPUR
HIGH MAST LIGHT TOWER



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED August 12, 2021
James G. James
REGION THREE ENGINEER

October 1, 2021
[Signature]
ENGINEER OF DESIGN AND ENVIRONMENT

October 1, 2021
Stephen M. [Signature]
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

INDEX OF SHEETS	
SHEET	DESCRIPTION
1	COVER SHEET
2	INDEX OF SHEETS, HIGHWAY STANDARDS, AND COMMITMENTS
3	CONSTRUCTION NOTES
4	STATUS OF UTILITIES
5	SUMMARY OF QUANTITIES
6	SCHEDULE OF QUANTITIES
7	EXISTING LIGHTING PLANS & REMOVAL ITEMS
8	PROPOSED LIGHTING PLANS
9	SOIL BORING LOG
10	LUMINAIRE PERFORMANCE TABLE
11	TRAFFIC CONTROL DETAIL

HIGHWAY STANDARDS	
STANDARD	APPLICATION
000001-08	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
001006	DECIMAL OF AN INCH AND OF A FOOT
701001-02	OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY
701006-05	OFF-ROAD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701456-05	PARTIAL EXIT RAMP CLOSURE FREEWAY/ EXPRESSWAY
701901-08	TRAFFIC CONTROL DEVICES
821101-02	LUMINAIRE WIRING IN POLE
835001-01	LIGHT TOWER
837001-05	LIGHT TOWER FOUNDATION

NO COMMITMENTS HAVE BEEN MADE IN CONJUNCTION WITH THIS PROJECT.

MODEL: Default
FILE NAME: C:\common\GEN\Transfer - Bureau\86G64 - Final Plans\86G64 EP Light Tower (08-11-21).dgn

USER NAME = hansonj	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 30226.0352' / in.	CHECKED -	REVISED -
PLOT DATE = 8/11/2021	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

INDEX OF SHEETS, HIGHWAY STANDARDS, AND COMMITMENTS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
404	(90-12)L	TAZEWELL	11	2
CONTRACT NO.			68G64	
ILLINOIS FED. AID PROJECT				

CONSTRUCTION NOTES

1. THE LOCATION OF ALL UTILITIES AND PRIVATELY OWNED FACILITIES SHALL BE FIELD VERIFIED BY THE GENERAL CONTRACTOR PRIOR TO THE INSTALLATION OF ANY COMPONENTS.
2. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING EXISTING IDOT ELECTRICAL FACILITIES AT HIS/HER OWN EXPENSE IF REQUIRED. THE GENERAL CONTRACTOR SHALL ALSO BE LIABLE FOR ANY DAMAGE TO IDOT FACILITIES RESULTING FROM INACCURATE LOCATING.
3. ELECTRICAL WORK SHALL CONFORM WITH NATIONAL, STATE, AND LOCAL CODES.
4. THE LOCATION OF THE PROPOSED LIGHT TOWER IS PROVIDED FOR REFERENCE ONLY. THE ENGINEER OF TRAFFIC SHALL BE NOTIFIED FOR LOCATION VERIFICATION BEFORE INSTALLATION.
5. ALL HIGHWAY LIGHTING STRUCTURES SHALL BE BONDED IN ACCORDANCE WITH NEC REQUIREMENTS. THIS WORK SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR THE PROPOSED LIGHT TOWER AND SHALL INCLUDE ALL LABOR, EQUIPMENT, AND MATERIALS (INCLUDING CLAMPS, HARDWARE, ELECTRICAL CABLE, AND ALL OTHER ITEMS REQUIRED TO BOND THE STRUCTURES.)
6. THE CONTRACTOR SHALL PROVIDE ELECTRICAL CABLE SLACK IN ACCORDANCE WITH ARTICLE 873.03.
7. POTHOLING TO LOCATE EXISTING UNDERGROUND UTILITIES SHALL BE INCLUDED IN THE CONTRACT BID PRICE FOR THE LIGHT TOWER FOUNDATION.
8. ALL SURPLUS MATERIALS SHALL BE DISPOSED OF IN ACCORDANCE WITH ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS.
9. THE CONTRACTOR IS RESPONSIBLE FOR THE COST OF UNCOVERING OR HAND DIGGING AROUND UTILITIES AS NECESSARY. THIS COST OF THIS WORK SHALL BE INCLUDED IN THE UNIT PRICES FOR THE LIGHT TOWER FOUNDATION.
10. THE CONTRACTOR SHALL VERIFY FIELD CONDITIONS PRIOR TO BIDDING. THERE WILL BE NO ADDITIONAL COMPENSATION PAID FOR CLAIMS THAT ARISE FROM A FAILURE TO FULLY INVESTIGATE EXISTING FIELD CONDITIONS.
11. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF THE EXISTING LIGHTING SYSTEM AS SHOWN IN THE PLANS (HIGH MAST LIGHT TOWER, CONCRETE FOUNDATIONS, LUMINAIRES, WIRING, ETC.) THIS WORK SHALL BE INCLUDED IN THE UNIT BID PRICE FOR "REMOVE EXISTING LIGHTING SYSTEM."
12. THE CONTRACTOR SHALL FURNISH AND INSTALL NEW FUSEHOLDERS, FUSES, SURGE ARRESTORS, AND LUMINAIRE WIRING INSIDE THE POLE. THE COST OF THIS WORK SHALL BE INCLUDED IN THE PRICE OF THE PROPOSED LUMINAIRES.
13. THE CONTRACTOR SHALL DISPOSE OF THE EXISTING HIGH MAST LIGHT TOWER, CONCRETE FOUNDATION, LUMINAIRES, WIRING, ETC. OFF THE JOB SITE. THE SALVAGE COST OF THESE ITEMS SHALL BE INCLUDED IN THE BID PRICES FOR "REMOVE EXISTING LIGHTING SYSTEM."
14. THE CONTRACTOR SHALL REMOVE THE EXISTING CONCRETE LIGHT TOWER FOUNDATION IN ACCORDANCE WITH ARTICLE 895.05 OF THE STANDARD SPECIFICATIONS. THE COST OF THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE FOR "REMOVAL OF TOWER FOUNDATION."
15. THE CONTRACTOR SHALL AIM THE PROPOSED LIGHT TOWER LUMINAIRES TO MATCH THE EXISTING.
16. THE PROPOSED LIGHT TOWER SHALL BE FULLY OPERATIONAL BEFORE THE EXISTING LIGHT TOWER IS REMOVED TO PREVENT INTERRUPTION TO ROADWAY LIGHTING.
17. THE PROPOSED LIGHT TOWER AND FOUNDATION SHALL BE INSTALLED WITHIN 10 FT. OF THE EXISTING LIGHT TOWER. VERIFICATION OF LOCATION SHALL BE REQUIRED BY THE ENGINEER OF TRAFFIC PRIOR TO INSTALLATION.
18. THE EXISTING CONDUIT AND WIRING SHALL BE RE-USED AND EXTENDED TO THE PROPOSED LIGHT TOWER.
19. THE CONTRACTOR SHALL PROVIDE PROTECTION TO THE EXISTING LIGHTING CIRCUIT CABLES AND CONDUIT TO PREVENT DAMAGE WHILE REMOVING THE EXISTING LIGHT TOWER FOUNDATION. THE CONTRACTOR SHALL INSTALL THE PROPOSED JUNCTION BOX OVER THE EXISTING LIGHT TOWER FOUNDATION CONDUITS AND EXTEND THE CIRCUIT TO THE PROPOSED LIGHT TOWER.
20. THE CONTRACTOR SHALL FURNISH AND INSTALL NEW ELECTRICAL CABLING FROM THE PROPOSED JUNCTION BOX INTO THE BASE OF THE PROPOSED LIGHT TOWER. THE PROPOSED ELECTRICAL CABLES SHALL MATCH THE SIZE AND TYPE OF THE EXISTING CABLES. THE COST OF THIS WORK SHALL BE INCLUDED IN THE COST OF THE PROPOSED LIGHT TOWER.
21. COILABLE POLYETHYLENE DUCT MAY BE SUBSTITUTED FOR PVC PUSHED OR TRENCHED.
22. THE CONTRACTOR SHALL INSTALL A NEW LIGHT TOWER DESIGNATION LABEL CONSISTING OF DIAMOND GRADE REFLECTIVE SHEETING. THE COST OF THIS WORK SHALL BE INCLUDED IN THE BID PRICE OF THE PROPOSED LIGHT TOWER.

MODEL: Default
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USER NAME = hansonj	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CONSTRUCTION NOTES			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE = 30226.0352' / in.	CHECKED -	REVISED -					404	(90-12)L	TAZEWELL	11	3
PLOT DATE = 8/11/2021	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.	ILLINOIS FED. AID PROJECT

CONTRACT NO. 68G64

NO KNOWN THIRD PARTY UTILITIES WITHIN THE PROJECT AREA

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PLOT DATE = 8/11/2021	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

STATUS OF UTILITIES	
SCALE:	SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
404	(90-12)L	TAZEWELL	11	4
CONTRACT NO.			68G64	
ILLINOIS FED. AID PROJECT				

SUMMARY OF QUANTITIES				TAZEWELL COUNTY
				CONST. TYPE CODE 0021 80% FEDERAL 20% STATE URBAN
CODE	ITEM DESCRIPTION	UNIT	TOTAL QTY.	
67100100	MOBILIZATION	L SUM	1.0	1.0
81028350	UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	10.0	10.0
82110016	LUMINAIRE, LED, HIGHMAST, OUTPUT DESIGNATION I	EACH	6.0	6.0
83502400	LIGHT TOWER, 100 FT. MOUNTING HEIGHT, LUMINAIRE MT. - 6	EACH	1.0	1.0
83700300	LIGHT TOWER FOUNDATION, 48" DIAMETER	FOOT	15.5	15.5
X0325541	REMOVE EXISTING LIGHTING SYSTEM	L SUM	1.0	1.0
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1.0	1.0
X8130110	JUNCTION BOX (SPECIAL)	EACH	1.0	1.0
X8420510	REMOVAL OF TOWER FOUNDATION	EACH	1.0	1.0

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	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
404	(90-12)L	TAZEWELL	11	5
CONTRACT NO.			68G64	
ILLINOIS FED. AID PROJECT				

SCHEDULE OF QUANTITIES			TAZEWELL COUNTY
ITEM DESCRIPTION	UNIT	TOTAL QTY.	RIVERFRONT DR. SPUR
MOBILIZATION	L SUM	1.0	1.0
UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	10.0	10.0
LUMINAIRE, LED, HIGHMAST, OUTPUT DESIGNATION I	EACH	6.0	6.0
LIGHT TOWER, 100 FT. MOUNTING HEIGHT, LUMINAIRE MT. - 6	EACH	1.0	1.0
LIGHT TOWER FOUNDATION, 48" DIAMETER	FOOT	15.5	15.5
REMOVE EXISTING LIGHTING SYSTEM	L SUM	1.0	1.0
TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1.0	1.0
JUNCTION BOX (SPECIAL)	EACH	1.0	1.0
REMOVAL OF TOWER FOUNDATION	EACH	1.0	1.0

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES			
SCALE:	SHEET	OF	SHEETS
	STA.		TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
404	(90-12)L	TAZEWELL	11	6
			CONTRACT NO. 68G64	
		ILLINOIS FED. AID PROJECT		



BILL OF MATERIALS		
DESCRIPTION	UNIT	QTY.
REMOVE EXISTING LIGHTING SYSTEM	L SUM	1.0
REMOVAL OF TOWER FOUNDATION	EACH	1.0

REMOVE EXISTING LIGHTING SYSTEM - QTY. 1.0 LUMP SUM
 (INCLUDES ALL ITEMS LISTED BELOW)
 THE FOLLOWING ITEMS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR OFF OF THE RIGHT-OF-WAY:

QTY.	ITEM
1.0	TOWER LIGHTING STRUCTURE, COMPLETE WITH 6 HIGH MAST LUMINAIRES

NOTES:

1. REMOVAL ITEMS ARE LABELED "R."
2. THE EXISTING CONDUIT AND ELECTRICAL CABLES SHALL REMAIN AND BE RE-USED FOR THE PROPOSED DESIGN.
3. THE EXISTING HIGH MAST LIGHT TOWER CONCRETE FOUNDATION SHALL BE A PARTIAL REMOVAL IN ACCORDANCE WITH ARTICLE 895.05.

LEGEND

- EXISTING LIGHT TOWER, 100 FT. M.H. 6 LUMINAIRE ON EXISTING TOWER FOUNDATION
- EXISTING CONDUIT
- EXISTING LIGHT POLE
- EXISTING HANDHOLE
- EXISTING ITS CAMERA POLE
- EXISTING ITS CCTV CAMERA

NOT TO SCALE

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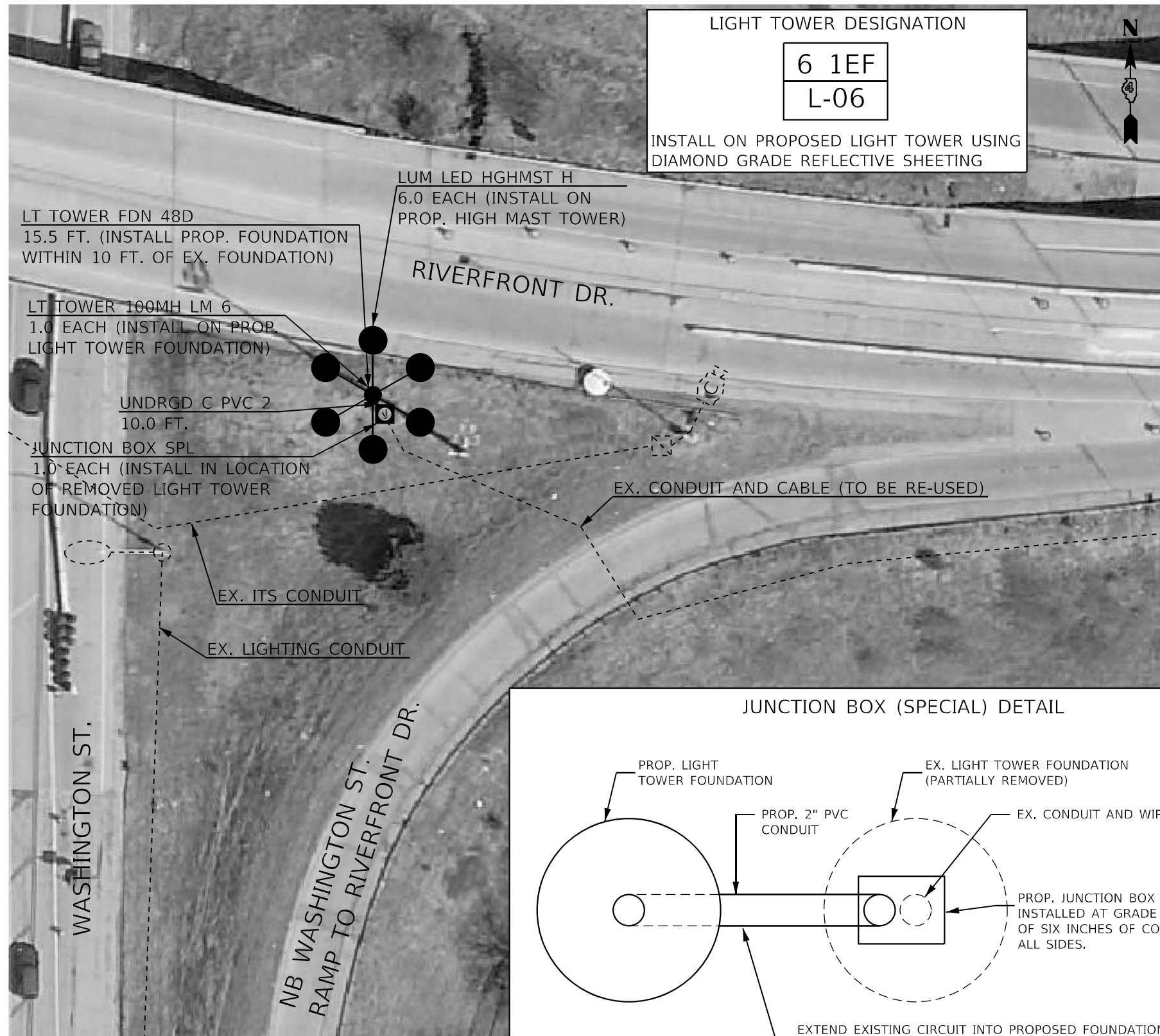
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PLOT DATE = 8/11/2021	DATE -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

EXISTING LIGHTING PLANS & REMOVAL ITEMS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
404	(90-12)JL	TAZEWELL	11	7
CONTRACT NO. 68G64			ILLINOIS FED. AID PROJECT	



LIGHT TOWER DESIGNATION

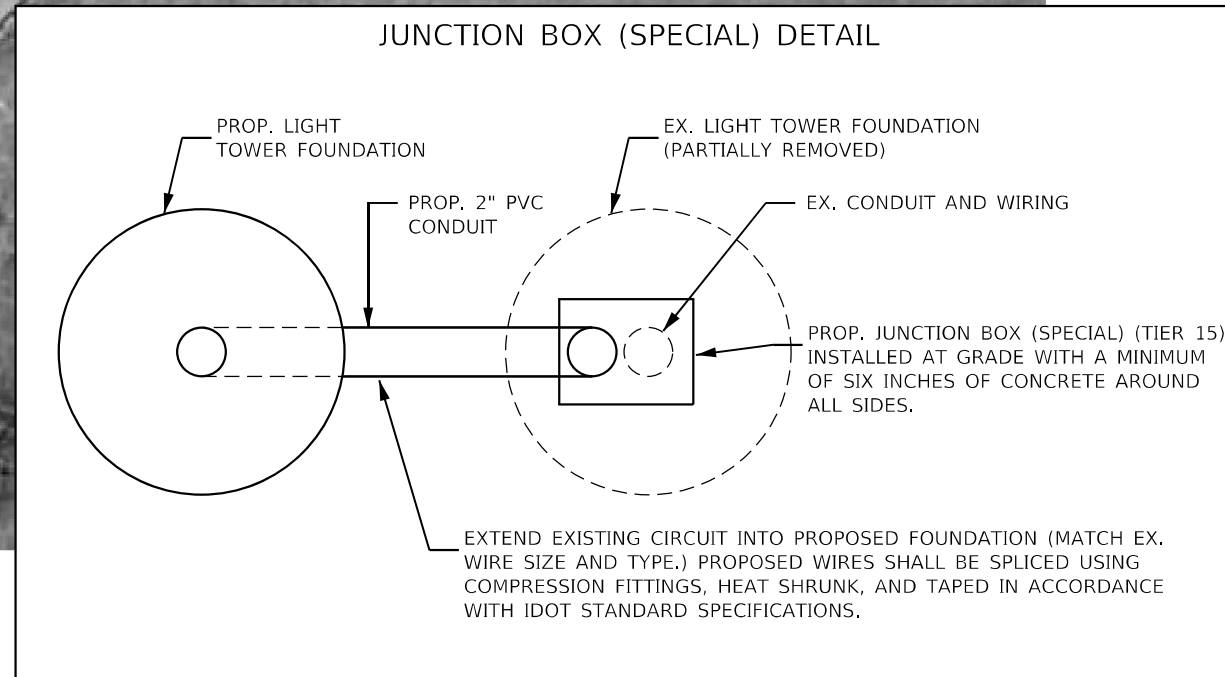
6 1EF
L-06

INSTALL ON PROPOSED LIGHT TOWER USING DIAMOND GRADE REFLECTIVE SHEETING

BILL OF MATERIALS		
DESCRIPTION	UNIT	QTY.
UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	10.0
LUMINAIRE, LED, HIGHMAST, OUTPUT DESIGNATION I	EACH	6.0
LIGHT TOWER, 100 FT. MOUNTING HEIGHT, LUMINAIRE MT. - 6	EACH	1.0
LIGHT TOWER FOUNDATION, 48" DIAMETER	FOOT	15.5
JUNCTION BOX (SPECIAL)	EACH	1.0

NOTES:

1. THE PROPOSED LIGHT TOWER AND FOUNDATION SHALL BE INSTALLED WITHIN 10 FT. OF THE EXISTING LIGHT TOWER. VERIFICATION OF LOCATION SHALL BE REQUIRED BY THE ENGINEER OF TRAFFIC PRIOR TO INSTALLATION.
2. THE PROPOSED LIGHT TOWER SHALL BE FULLY OPERATIONAL BEFORE THE EXISTING LIGHT TOWER IS REMOVED TO PREVENT INTERRUPTION TO ROADWAY LIGHTING.
3. THE EXISTING CONDUIT AND WIRING SHALL BE RE-USED AND EXTENDED TO THE PROPOSED LIGHT TOWER.
4. THE CONTRACTOR SHALL PROVIDED PROTECTION TO THE EXISTING LIGHTING CIRCUIT CABLES AND CONDUIT TO PREVENT DAMAGE WHILE REMOVING THE EXISTING LIGHT TOWER FOUNDATION. THE CONTRACTOR SHALL INSTALL THE PROPOSED JUNCTION BOX OVER THE EXISTING LIGHT TOWER FOUNDATION CONDUITS AND EXTEND THE CIRCUIT TO THE PROPOSED LIGHT TOWER.
5. THE CONTRACTOR SHALL INSTALL 2" PVC CONDUIT BETWEEN THE PROPOSED JUNCTION BOX AND THE PROPOSED LIGHT TOWER FOUNDATION.
6. THE CONTRACTOR SHALL FURNISH AND INSTALL NEW ELECTRICAL CABLING FROM THE PROPOSED JUNCTION BOX INTO THE BASE OF THE PROPOSED LIGHT TOWER. THE PROPOSED ELECTRICAL CABLES SHALL MATCH THE SIZE AND TYPE OF THE EXISTING CABLES. THE COST OF THIS WORK SHALL BE INCLUDED IN THE COST OF THE PROPOSED LIGHT TOWER.



LEGEND	
	PROPOSED LIGHT TOWER, 100 FT. M.H. 6 LUMINAIRE ON PROPOSED LIGHT TOWER FOUNDATION 48" DIA.
----	EXISTING CONDUIT
—	PROPOSED CONDUIT
	PROPOSED JUNCTION BOX (SPECIAL)
- - - - -	EXISTING LIGHT POLE
	EXISTING HANDHOLE
	EXISTING ITS CAMERA POLE
	EXISTING ITS CCTV CAMERA

NOT TO SCALE

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PROPOSED LIGHTING PLANS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
404	(90-12)J	TAZEWELL	11	8
CONTRACT NO. 68G64			ILLINOIS FED. AID PROJECT	



SOIL BORING LOG

ROUTE FAI 74 (I-74) DESCRIPTION Structure Boring for High Mast Light Tower LOGGED BY AT (Rubino)

SECTION 90-12 LOCATION Riverfront Drive Spur, East Peoria, SEC. 32, TWP. 26N, RNG. 4W, 3rd PM, Latitude 40.6780, Longitude -89.5881

COUNTY Tazewell DRILLING METHOD HSA HAMMER TYPE Automatic

STRUCT. NO. Station	D E P T H (ft)	B L O W S (/6")	U C S Qu (tsf)	M O I S T (%)	Surface Water Elev. <u>None</u> ft	D E P T H (ft)	B L O W S (/6")	U C S Qu (tsf)	M O I S T (%)
Ground Surface Elev. <u>470.00</u> ft					Stream Bed Elev. _____ ft				
BORING NO. <u>LTB-01</u> Station _____ Offset _____					Groundwater Elev.: First Encounter/Not encountered _____ ft Upon Completion _____ ft After _____ Hrs. _____ ft				
TOPSOIL, brown	469.50					449.50			
SILT, trace roots, light gray, medium dense		3			SANDY CLAY LOAM, gray and black, medium stiff		4		
		4		14			2	0.8	15
		7					9	P	7
	467.00					447.00			
SILTY CLAY LOAM, trace gravel, brown and gray, stiff		3			SAND, fine, black, very dense		24		
		6	1.7	14			21		10
		5	S				31		
		-5					-25		
		3				444.00			
		3	1.0	15	SILTY CLAY, with sand lenses, trace gravel, dark brown and black, with coal pieces, hard		1		
		3	S				2	6.3	19
		3					3		
	462.00				LOAM, with brick and wood and coal pieces, trace gravel, black, medium dense		6		25
SILTY LOAM, trace gravel, gray, loose		4		15			5		
		4				440.00	-30		
		-10			End of Boring				
	459.00								
CLAY LOAM, trace gravel, gray, very stiff		3							
		3	2.5	18					
		4	P						
	457.00								
CLAY LOAM, some gravel, brown, moist, very stiff		4							
		5	3.0	13					
		7	P				-35		
		-15							
	454.00								
SILTY CLAY LOAM, trace to some gravel, brown and gray, stiff to very stiff		3							
		4	1.0	15					
		6	B						
		2							
		5	2.3	14					
		7	B				-40		
		-20							

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

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SOIL BORING LOG

SCALE: SHEET OF SHEETS STA. TO STA.

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404	(90-12)L	TAZEWELL	11	9
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Luminaire Performance Table



Project

Date	Contract Number	Section Number	County
08/18/21	68G64	(90-12)L	Tazewell
Marked Route Number		Municipality	
FAP 404			

Roadway

Lane Width	# of Lanes	Median Width	I.E.S. Surface Classification	Q-Zero Value
12	2	N/A	R3	0.07

Structure

Mounting Height	Arm Length	Set-Back	Number of Luminaires (Highmast & Sign Lighting Only)
100 ft	3 ft	50 ft	6, same direction

Luminaire

Description	I.E.S. Transverse Distribution	I.E.S. Lateral Distribution	
Luminaire, LED, Highmast, Output Desig H	Type III	Short/Medium	
Total Light Loss Factor (LLF)	B-U-G Rating	Shields	Dimming Protocol
0.7	U = 0	No	0 - 10V

Layout

Spacing (to Nearest 5 ft)	Configuration (Opposite, Staggered, 1 Sided, or Median)
600 ft	1 Sided

Performance

Average Illuminance, E_{AVE} (fc)	Uniformity Ratio, E_{AVE}/E_{MIN}		
1.3	3.0		
Average Luminance, L_{AVE} (cd/m ²)	Uniformity Ratio, L_{AVE}/L_{MIN}	Uniformity Ratio, L_{MAX}/L_{MIN}	Veiling Luminance Ratio, L_V/L_{AVE}
N/A	N/A	N/A	0.3

Light Trespass

Distance to ROW (behind pole)	Max. Horizontal Illuminance at ROW, E_H	Max. Vertical Illuminance at ROW, E_V
N/A	N/A	N/A

Notes

- Set-Back is from Edge of Pavement (white line) except for sign luminaires when it is vertical and horizontal distance from the sign to the luminaire.
- Lighting calculations shall be performed with all luminaires oriented toward and perpendicular to the roadway.
- Total Light Loss Factor (LLF) = the product of "Lumen Maintenance" (LLD) = 0.9, "Dirt Depreciation" (LDD) = 0.8, and "Equipment Factors" (EF) = 0.95.
- Performance requirements shall be the minimum acceptable standards of photometric performance for the luminaire, based on the given conditions listed above.
- Lighting calculations shall be performed in one direction only.
- Compliance with performance criteria shall be held to one significant digit.
- Initial lumens of the proposed luminaire may vary from the values specified in the table given in Article 1067.06 of the BDE Special Provision Luminaire, LED.

Printed 08/18/21

BDE 5630 (04/10/19)

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

LUMINAIRE PERFORMANCE TABLE

SCALE: SHEET OF SHEETS STA. TO STA.

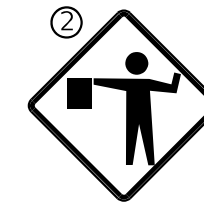
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
404	(90-12)L	TAZEWELL	11	10
CONTRACT NO.			68G64	
ILLINOIS FED. AID PROJECT				



ROAD CONSTRUCTION AHEAD SIGN (W20-1103(0)-48) AND FLAGGER SIGN (W20-7(O)-48) REQUIRED FOR INTERMITTENT TRAFFIC STOPS ON RIVERFRONT DR. SPUR.



W20-1103(0)-48



(W20-7(O)-48)

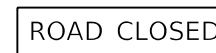
TRAFFIC CONTROL HIGHWAY STANDARDS

- 701001-02 OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY
- 701006-05 OFF-ROAD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
- 701901-08 TRAFFIC CONTROL DEVICES

NOTES:

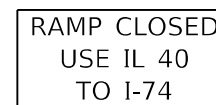
1. ALL LANE CLOSURES, INCLUDING RAMP CLOSURE AND INTERMITTENT TRAFFIC STOPS, SHALL BE LIMITED TO 8:30AM TO 3:00PM
2. ONE CHANGEABLE MESSAGE SIGN SHALL BE INSTALLED AT THE RIVERFRONT DR. RAMP ENTRANCE A MINIMUM OF 7 DAYS PRIOR TO THE RAMP CLOSURE, INDICATING THE DATES OF CLOSURE.
3. WHEN FLAGGER PRESENT FOR INTERMITTENT TRAFFIC STOPS ON RIVERFRONT DR. SPUR, ROAD CONSTRUCTION AHEAD SIGN (W20-1103(0)-48) AND FLAGGER SIGN (W20-7(O)-48) ARE REQUIRED.
4. ALL TRAFFIC CONTROL REQUIRED FOR THIS CONTRACT SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE BID PRICE FOR THE LUMP SUM "TRAFFIC CONTROL AND PROTECTION, (SPECIAL)."

ONE TYPE III BARICADE WITH THE FOLLOWING SIGN:



RAMP CLOSED VIA BARRELS SPACED 10 FT. APART

ONE CHANGEABLE MESSAGE SIGN (MINIMUM 7 DAYS PRIOR TO RAMP CLOSURE, DURING RAMP CLOSURE)



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL DETAIL

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
404	(90-12)L	TAZEWELL	11	11
CONTRACT NO.			68G64	
ILLINOIS FED. AID PROJECT				

USER NAME = hansonj	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 30226.0352" / in.	CHECKED -	REVISED -
PLOT DATE = 8/11/2021	DATE -	REVISED -