03-05-2021 LETTING ITEM 142

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STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS: SEE SHEET 2 FOR INDEX OF SHEETS

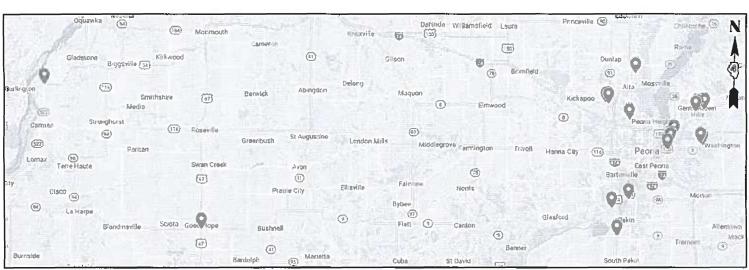
PROPOSED HIGHWAY PLANS

D4 SIGNAL INSTALLATION 2021 PROJECT NUMBER: HSIP-CNQN(639) VARIOUS ROUTES VARIOUS COUNTIES

C-94-011-21

HIGHWAY STANDARDS: SEE SHEET 2 FOR A LIST OF **APPLICABLE HIGHWAY STANDARDS**

PROJECT DESCRIPTION: INSTALLATION OF DILEMMA ZONE DETECTION AND LED LIGHTING AT VARIOUS SIGNALIZED INTERSECTIONS IN DISTRICT 4.



JOINT UTILITY LOCATION INFORMATION FOR EXCAVATORS 1-800-892-0123 OR 811

PROJECT ENGINEER: ERIC HOWALD (309) 671-4481 PROJECT MANAGER: BEN TELLEFSON (309) 671-4477

CATALOG NO. 036122-00D **CONTRACT NO. 68G06**

PRINTED	BY THE AUTHORITY
OF THE	STATE OF ILLINOIS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

* 21 + 1 = 22 TOTAL SHEETS

D-94-008-21

SUBMITTED Oct 16 20 20

LOCATION OF SECTION INDICATED THUS: --

NO COMMITMENTS HAVE BEEN MADE IN CONJUNCTION WITH THIS PROJECT.

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3	CONSTRUCTION NOTES
4-4A	SUMMARY OF QUANTITIES
5	SCHEDULE OF QUANTITIES
6	PROPOSED LED LUMINAIRE INSTALLATION DETAILS
7	EXISTING TRAFFIC SIGNAL PLANS: IL 116 - GERMANTOWN HILLS
8	PROPOSED TRAFFIC SIGNAL PLANS: IL 116 - GERMANTOWN HILLS
9	EXISTING TRAFFIC SIGNAL PLANS: IL 116 - EAST PEORIA
10	PROPOSED TRAFFIC SIGNAL PLANS: IL 116 - EAST PEORIA
11	EXISTING TRAFFIC SIGNAL PLANS: INTERSECTIONS ALONG US 24 & BUS 24 - WASHINGTON
12	PROPOSED TRAFFIC SIGNAL PLANS: INTERSECTIONS ALONG US 24 & BUS 24 - WASHINGTON
13	EXISTING TRAFFIC SIGNAL PLANS: IL 29 - PEKIN
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15	EXISTING TRAFFIC SIGNAL PLANS: INTERSECTIONS ALONG US 150 & IL 40 - PEORIA
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17	EXISTING TRAFFIC SIGNAL PLANS: US 24 & IL 9, US 34 & CARMAN, US 67 & IL 9 - VARIOUS COUNTIES
18	PROPOSED TRAFFIC SIGNAL PLANS: US 24 & IL 9, US 34 & CARMAN, US 67 & IL 9 - VARIOUS COUNTIES
19	US 150 EB FLASHER INSTALLATION
20	DILEMMA ZONE DETECTION SYSTEM INSTALLATION DETAIL
21	PROPOSED LED LUMINAIRE PERFORMANCE TABLE

	HIGHWAY STANDARDS
	000001-08 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001006	DECIMAL OF AN INCH AND OF A FOOT
-	LANE CLOSURE, 2L, 2W, DAY ONLY
	LANE CLOSURE, MULTILANE, FOR SPEEDS ≥ 45 MPH TO 55 MPH
701426-09	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS ≥ 45 MPH
701427-05	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS ≤ 40 MPH
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701901-08	TRAFFIC CONTROL DEVICES
821101-02	LUMINAIRE WIRING IN POLE
857001-01	STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES
873001-02	TRAFFIC SIGNAL GROUNDING & BONDING
880006-01	TRAFFIC SIGNAL MOUNTING DETAILS
886001-01	DETECTOR LOOP INSTALLATIONS
886006-01	TYPICAL LAYOUTS FOR DETECTION LOOPS
701001-02	OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5 m) AWAY

701106-02 OFF-RD OPERATIONS, MULTILANE, MORE THAN 15' (4.5 m) AWAY DESIGNED -REVISED USER NAME = hansontj DRAWN REVISED PLOT SCALE = 174.3861 / in. CHECKED REVISED DATE REVISED

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

701006-05 OFF-RD OPERATIONS, 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE

701101-05 OFF-RD OPERATIONS, MULTILANE, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE

COMMITMENTS, INDEX OF SHEETS, AND HIGHWAY STANDARDS SHEETS STA.

F.A. RTE. SECTION COUNTY TOTAL SHEETS NO.

VAR. D4 SIGNAL INSTALLATION 2021 VARIOUS 21 2 CONTRACT NO. 68G06

REV. 12/23/20 REV. 11/25/20

CONSTRUCTION NOTES

- 1. THE LOCATION OF ALL UTILITIES AND PRIVATELY OWNED FACILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO THE INSTALLATION OF ANY COMPONENTS.
- 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING EXISTING IDOT ELECTRICAL FACILITIES AT HIS/HER OWN EXPENSE IF REQUIRED. THE 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 CONTRACTOR SHALL PROVIDE ELECTRICAL CABLE SLACK IN ACCORDANCE WITH ARTICLE 873.03.
- 5. 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.
- 6. ALL SURPLUS MATERIALS SHALL BE DISPOSED OF IN ACCORDANCE WITH ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS.
- 7. 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 CONDUITS.
- 8. ALL TRAFFIC SIGNAL HEAD BRACKETS ARE TO BE GALVANIZED STEEL WITH A NATURAL FINISH.
- 9. ALL TRAFFIC SIGNAL SECTIONS SHALL HAVE 12" SINGLE LED LENSES.
- 10. THE RED SECTIONS OF THE SIGNAL HEADS SHARING THE SAME MAST ARM SHALL BE LEVEL WITH ONE ANOTHER AND MAINTAIN A 16 FT. MINIMUM CLEARANCE FROM THE HIGHEST POINT OF THE ROADWAY TO BOTTOM OF THE SIGNAL BACKPLATE.
- 11. ALL DETECTOR LOOPS SHALL UTILIZE A SEPARATE PAIR OF TWISTED/SHIELDED LEAD-IN CABLE.
- 12. ALL DETECTOR LOOPS SHALL BE INSTALLED IN THE CENTER OF THEIR RESPECTIVE TRAVEL LANES. THE ENGINEER OF TRAFFIC SHALL BE NOTIFIED FOR VERIFICATION OF DETECTOR PLACEMENT BEFORE INSTALLATION.
- 13. THE PROPOSED DETECTOR LOOPS SHALL BE CUT IN THE EXISTING PAVEMENT.
- 14. THE CONTRACTOR SHALL REMOVE THE EXISTING SIGNAL HEADS AND DISPOSE OF THEM OFF THE JOBSITE. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE BID PRICE FOR THE PROPOSED SIGNAL HEADS.
- 15. THE CONTRACTOR SHALL RE-USE THE EXISTING TRAFFIC SIGNAL CABLING. THE COST OF ANY ADDITIONAL JUMPER CABLING REQUIRED TO POWER THE ADDITIONAL RED SIGNAL HEADS SHALL BE INCLUDED IN THE BID PRICE FOR THE SIGNAL HEADS.
- 16. THE DILEMMA ZONE DETECTORS SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
- 17. THE VEHICLE VIDEO DETECTION SYSTEM SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
- 18. THE CONTRACTOR SHALL FURNISH AND INSTALL THE DILEMMA ZONE DETECTORS INCLUDING BRACKETING, HARDWARE, WIRING, TRAFFIC SIGNAL MODIFICATIONS, EQUIPMENT, ETC. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE BID PRICE FOR THE DILEMMA ZONE DETECTION SYSTEM.
- 19 REMOVAL OF EXISTING ITEMS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE BID PRICES FOR THE PROPOSED ITEMS.
- 20. THE TRAFFIC SIGNAL POST SHALL BE GROUNDED IN ACCORDANCE WITH NEC REQUIREMENTS. THIS WORK SHALL BE INCLUDED IN THE BID PRICE OF THE TRAFFIC SIGNAL POST.

USER NAME = hansontj	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 174.3861 ' / in.	CHECKED -	REVISED -
PLOT DATE = 10/16/2020	DATE -	REVISED -

1		
EV. 12/22/20	REV. 11/17/20	

CODE NO.			1	CONST. CODE	CONST. CODE	CONST. CODE	CONST. CODE	CONST. CODE	CONST. CODE	CONST. CODE	CONST. CODE	CONCT CODE		CONCT CODE	
CODE NO.						-						CONST. CODE	CONST. CODE	CONST. CODE	CONST. CODE
CODE NO.				0021	0021	0021	0021	0021	0021	0021	0021	0021	0021	0021	0021
CODE NO.				90% FEDERAL	90% FEDERAL	90% FEDERAL	90% FEDERAL	90% FEDERAL	90% FEDERAL	90% FEDERAL	90% FEDERAL	90% FEDERAL	90% FEDERAL	90% FEDERAL	90% FEDERAL
CODE NO.	ITEM DESCRIPTION	UNIT	TOTAL	5% STATE	10% STATE	6.7% STATE	5% STATE	6.7% STATE	0% STATE	5% STATE	10% STATE	5% STATE	0% STATE	10% STATE	10% STATE
	TIEM DESCRIPTION	ONII	QUANTITY	5% CITY	0% CITY	3.3% CITY	5% CITY	3.3% CITY	10% CITY	5% CITY	0% CITY	5% MEDINA TWNSHP	10% CITY	0% CITY	0% CITY
				GERMANTOWN HILLS	TAZEWELL CTY.	EAST PEORIA	EAST PEORIA	WASHINGTON	WASHINGTON	PEKIN	PEORIA CTY.	PEORIA CTY.	PEORIA	HENDERSON CTY.	MCDONOUGH CTY.
				3 INTERSECTIONS	3 INTERSECTIONS	2 INTERSECTIONS	1 INTERSECTION	1 INTERSECTION	1 INTERSECTION	1 INTERSECTION	3 INTERSECTIONS	1 INTERSECTION	2 INTERSECTIONS	1 INTERSECTION	1 INTERSECTION
,				URBAN	URBAN	URBAN	URBAN	URBAN	URBAN	URBAN	URBAN	URBAN	URBAN	URBAN	URBAN
67100100	MOBILIZATION	L SUM	1.0	0.15	0.15	0.10	0.05	0.05	0.05	0.05	0.15	0.05	0.05	0.05	0.05
07100100	PIODILIZATION	L 30141	1.0	0.13	0.15	0.10	0.05	0.05	0.03	0.05	0.15	0.05	0.03	0.03	0.03
72000200	SIGN PANEL - TYPE 2	SQ FT	16.0								16.0				8
							-								
81028350	UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	505.0								505.0				
81500120	GULFBOX JUNCTION, COMPOSITE CONCRETE	EACH	1.0								1.0	-			
01300120			110								210				
82110007	LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION G	EACH	24.0	12.0	3.0		4.0	3.0	4.0	2.0				4.0	4.0
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1930.0								1930.0		ļ		100
07301243	ELECTRIC CADLE IN CONDOTT, SIGNAL NO. 14 JC	1001	1930.0								1930.0				
87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	1684.5								1684.5				0
87502520	TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.	EACH	1.0								1.0				
87000200	DRILL EXISTING HANDHOLE	EACH	1.0								1.0				-
07900200	DNILL EXISTING HANDHOLL	LACIT	1.0		7		-				1.0	-	1		
88040020	SIGNAL HEAD, POLYCARBONATE, LED 1-FACE, 1-SECTION, BRACKET MOUNTED	EACH	2.0								2.0				
88200100	TRAFFIC SIGNAL BACKPLATE	EACH	2.0		ć		-				2.0				-
							- -								
88200510	TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	63.0	9.0	7.0		4.0	3.0	8.0	8.0		4.0	7.0	7.0	
	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED														
X 1400087	(SPECIAL)	EACH	2.0	2.0		1									
X 1400434	DILEMMA ZONE DETECTION SYSTEM	EACH	35.0	6.0	3.0	3.0	2.0	2.0	2.0	2.0	4.0	2.0	2.0	2.0	4.0
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1.0	0.15	0.15	0.10	0.05	0.05	0.05	0.05	0.15	0.05	0.05	0.05	0.05
X8140102	GROUND EXISTING HANDHOLE	EACH	3.0								3.0				
7.0110102	GROOME EXISTING TIMESTOCE	E/(C/I	3.0								3.0				
X8210402	LUMINAIRE MOUNTING BRACKET - SPECIAL	EACH	7.0	6.0-	2.0		3.0	2.0							
V0E 702.5	CHILL ACTUATED CONTROLLED IN EVICTING CASSIST	FACU	10.0		2.0	2.0	1.0			1.0	1.0	1.0	1.0	1.0	
X85/0215	FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	10.0		2.0	2.0	1.0			1.0	1.0	1.0	1.0	1.0	
X8860400	DETECTOR LOOP, SPECIAL	FOOT	164.0		164.0		-								
V00E0111	MODIEV EVICTING CONTROLLED AND CARINET	FACIL	1.0								1.0				
X8950114	MODIFY EXISTING CONTROLLER AND CABINET	EACH	1.0								1.0		i i		
Z0033072	VIDEO VEHICLE DETECTION SYSTEM	EACH	1.0										1.0		
															Ĩ
	CIALTY ITEM														

SUMMARY OF QUANTITIES

	l		
FINAL.UGIN			
Hoject	l		
20116	l		
DIFFILING			
PIGITS/00/00			
- 1119	l		
pureaus/bacub			
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Idnsie			
II/GEN/I			

			CONST. CO
			0021
			90% FEDER
CODE NO.	ITEM DESCRIPTION	UNIT	6.7% STAT
CODE NO.	TEN BESCH TON	01111	3.3% CITY
			PEORIA
			1 INTERSECT
			URBAN
			UNDAN
67100100	MOBILIZATION	L SUM	0.05
72000200	SIGN PANEL - TYPE 2	SQ FT	
81028350	UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	
81500120	GULFBOX JUNCTION, COMPOSITE CONCRETE	EACH	
82110007	LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION G	EACH	
02110007	EDPHINAINE, EED, NOADWAY, OUT OF DESIGNATION O	LACIT	
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	
		ļ	
87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	
87502520	TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.	EACH	
87900200	DRILL EXISTING HANDHOLE	EACH	
88040020	SIGNAL HEAD, POLYCARBONATE, LED 1-FACE, 1-SECTION, BRACKET MOUNTED	EACH	
88200100	TRAFFIC SIGNAL BACKPLATE	EACH	
88200510	TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	6.0
	,		
X1400087	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	(SPECIAL)	27.011	
X1400434	DILEMMA ZONE DETECTION SYSTEM	EACH	1.0
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	0.05
X8140102	GROUND EXISTING HANDHOLE	EACH	
X8210402	LUMINAIRE MOUNTING BRACKET - SPECIAL	EACH	
X8570215	FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	
X8860400	DETECTOR LOOP, SPECIAL	FOOT	
X8950114	MODIFY EXISTING CONTROLLER AND CABINET	EACH	
70330114	PRODUCT EXISTING CONTROLLER AND CADINET	LACII	
70022072	VIDEO VEHICLE DETECTION SYSTEM	EACH	1.0

^{*=} SPECIALTY ITEM

USER NAME = howalder	DESIGNED -	REVISED							F.A. RTF	SECTION	COUNTY	TOTAL SHEE SHEETS NO.
	DRAWN	REVISED	STATE OF ILLINOIS		SUMMA	ARY OF QUAI		VAR. D	04 SIGNAL INSTALLATION 2021	VARIOUS	21 4A	
PLOT SCALE = 174.3861 ' / in.	CHECKED -	REVISED	DEPARTMENT OF TRANSPORTATION						2000		CONTRAC	T NO. 68G06
PLOT DATE = 12/17/2020	DATE	REVISED -		SCALE:	SHEET OF .	SHEETS	STA	TO STA		ILLINOIS FED. AID	PROJECT	

			WOO	ODFORD COL	JNTY					TAZEWELL	DULE OF QUANT COUNTY	11123		Î			PEORIA	COUNTY			HENDERSON	MCDONOUGH
				MANTOWN H							WASHINGTON	.1	NORTH PEKIN	PEKIN	PEORIA CO	LINTY					COUNTY HENDERSON CTY.	COUNTY MCDONOUGH CT
ITEM DESCRIPTION	UNIT	TOTAL QTY.	IL 116 & WOODLAND	IL 116 &	IL 116 & ARBOR VITAE DR./ SCHMITT LN.	TAZEWELL COUNTY IL 116 & ACCESS RD. 8	EAST PEORIA IL 116 & CENTENNIAL DR.	IL 116 &	EAST PEORIA IL 116 & MARINERS WAY	US 24 (BOYD PKWY.) & CUMMINGS LN.	BUS 24/ IL 8 (MCCLUGAGE RD.) & BUS 24,	BUS 24/ IL 8 (MCCLUGAGE		IL 29 & MANITO RD./	US 150 (WAR MEMORIAL DR.) &	US 24 & IL 9	PEORIA US 150 EB FLASHER	IL 40 (KNOXVILLE AVE.) & WOODSIDE DR. MEDIA TWNSHP	PEORIA US 150 (WAR MEMORIAL DR.) & ACADEMIC DR.	PEORIA US 150 (WAR MEMORIAL DR.) & GLEN HOLLOW		US 67 & IL 9
FEDERAL/STATE/CITY COST	%		90/5/5	90/5/5	90/5/5	90/10/0	90/6.7/3.3	90/6.7/3.3	90/5/5	90/10/0	90/6.7/3.3	90/0/10	90/10/0	90/5/5	90/10/0	90/10/0	90/10/0	90/5/5	90/0/10	90/6.7/3.3	90/10/0	90/10/0
SIGN PANEL - TYPE 2	SQ FT	16.0															16.0				=	
UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	505.0															505.0					
GULFBOX JUNCTION, COMPOSITE CONCRETE	EACH	1.0															1.0					
LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION G	EACH	24.0	4.0	4.0	4.0	3.0			4.0		3.0	4.0		2.0							4.0	4.0
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1930.0															1930.0					
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	1684.5															1684.5					
TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.	EACH	1.0															1.0					
DRILL EXISTING HANDHOLE	EACH	1.0															1.0					
SIGNAL HEAD, POLYCARBONATE, LED 1-FACE, 1-SECTION, BRACKET MOUNTED	EACH	2.0															2.0					
TRAFFIC SIGNAL BACKPLATE	EACH	2.0								1							2.0					
TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	63.0	3.0	2.0	4.0	5.0			4.0		3.0	8.0	2.0	8.0				4.0	7.0	6.0	7.0	
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED (SPECIAL)	EACH	2.0			2.0																	
DILEMMA ZONE DETECTION SYSTEM	EACH	35.0	2.0	2.0	2.0	2.0	1.0	2.0	2.0		2.0	2.0	1.0	2.0	2.0	2.0		2.0	2.0	1.0	2.0	4.0
GROUND EXISTING HANDHOLE	EACH	3.0					. 1										3.0					
LUMINAIRE MOUNTING BRACKET - SPECIAL	EACH	7.0	2.0	2.0	2.0	2.0			3.0		2.0											
FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	10.0				1.0	1.0	1.0	1.0				1.0	1.0	1.0			1.0	1.0		1.0	
DETECTOR LOOP, SPECIAL	FOOT	164.0								164.0												
MODIFY EXISTING CONTROLLER AND CABINET	EACH	1.0															1.0					
VIDEO VEHICLE DETECTION SYSTEM	EACH	1.0																		1.0		

USER NAME = hansontj DESIGNED REVISED -DRAWN REVISED PLOT SCALE = 174.3861 / in. CHECKED :-REVISED PLOT DATE = 10/16/2020 DATE REVISED +

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE:

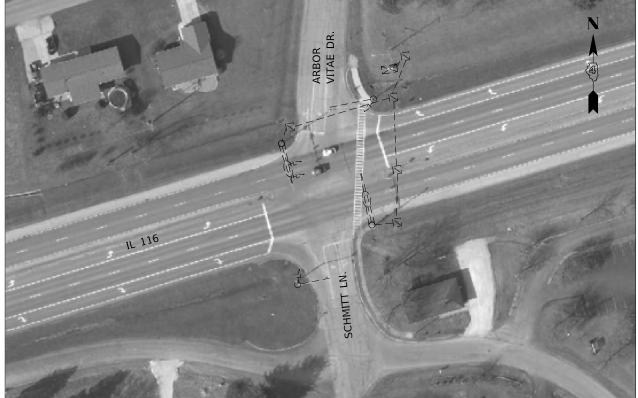
SCHEDULE OF QUANTITIES SHEET OF SHEETS STA. TO STA.

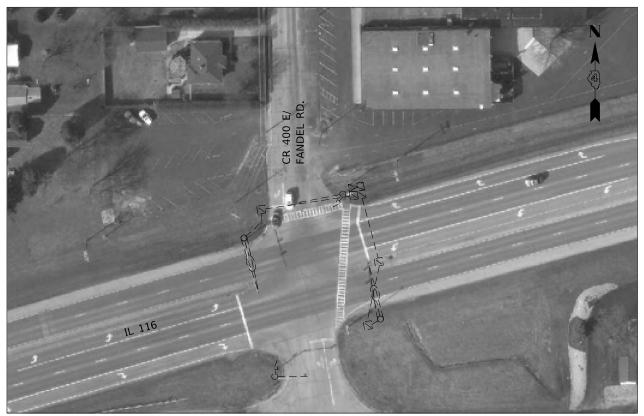
				PROPOSED LED LUI	MINAIRE INSTALLATION	DETAILS		
ROUTE	LOCATION	COUNTY	EX. LUMINAIRE VOLTAGE	EX. LUMINAIRE TYPE AND WATTAGE (LUMINAIRE QTY.)	PROP. LUMINAIRE TYPE	PROP. LUMINAIRE QTY.	LUMINAIRE MOUNTING BRACKET - SPECIAL QTY.	NOTES
IL 116	WOODLAND KNOLLS DR./ TEN MILE CREEK DR.	WOODFORD	240 V	HPS, 250W, TENON MOUNT (2)	LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION G	4.0	2.0	FURNISH TWO 1 FT. TWIN 90 DEGREE ARMS AND INSTALL ON EX. MAST ARMS. FURNISH AND INSTALL ALL NEW LUMINAIRE WIRING, ARRESTORS, FUSES, AND FUSEHOLDERS.
IL 116	CR 400 E/ FANDEL RD.	WOODFORD	240 V	HPS, 250W, TENON MOUNT (2)	LUMINAIRE, LED. ROADWAY, OUTPUT DESIGNATION G	4.0	2.0	FURNISH TWO 1 FT. TWIN 90 DEGREE ARMS AND INSTALL ON EX. MAST ARMS. FURNISH AND INSTALL ALL NEW LUMINAIRE WIRING, ARRESTORS, FUSES, AND FUSEHOLDERS.
IL 116	SCHMITT LN./ ARBOR VITAE DR.	WOODFORD	240 V	HPS, 250W, TENON MOUNT (2)	LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION G	4.0	2.0	FURNISH TWO 1 FT. TWIN 90 DEGREE ARMS AND INSTALL ON EX. MAST ARMS. FURNISH AND INSTALL ALL NEW LUMINAIRE WIRING, ARRESTORS, FUSES, AND FUSEHOLDERS.
IL 116	MARINERS WAY	TAZEWELL	240 V	HPS, 250W, TWIN-TENON MOUNT (2) TENON MOUNT (2)	LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION G	4.0	3.0	FURNISH ONE 1 FT. TWIN 90 DEGREE ARM AND TWO 1 FT. ARM AND INSTALL ON EX. MAST ARMS. FURNISH AND INSTALL ALL NEW LUMINAIRE WIRING, ARRESTORS, FUSES, AND FUSEHOLDERS.
IL 116	ACCESS RD. 8	TAZEWELL	240 V	HPS, 250W, TWIN-TENON MOUNT (2) TENON MOUNT (1)	LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION G	3.0	2.0	FURNISH ONE 1 FT. TWIN 90 DEGREE ARM AND ONE 1 FT. ARM AND INSTALL ON EX. MAST ARMS. FURNISH AND INSTALL ALL NEW LUMINAIRE WIRING, ARRESTORS, FUSES, AND FUSEHOLDERS.
BUS 24/ IL 8 (MCCLUGAGE RD.)	FREEDOM PKWY./ CENTENNIAL DR.	TAZEWELL	240 V	HPS, 250W, MAST ARM MOUNT (4)	LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION G	4.0		INSTALL NEW LUMINAIRE WIRING, ARRESTORS, FUSES, AND FUSEHOLDERS.
BUS 24/ IL 8 (MCCLUGAGE RD.)	BUS 24/ IL 8 (WASHINGTON RD.)	TAZEWELL	240 V	HPS, 250W, TWIN-TENON MOUNT (2) TENON MOUNT (1)	LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION G	3.0	2.0	FURNISH ONE 1 FT. TWIN 90 DEGREE ARM AND ONE 1 FT. ARM AND INSTALL ON EX. MAST ARMS. FURNISH AND INSTALL ALL NEW LUMINAIRE WIRING, ARRESTORS, FUSES, AND FUSEHOLDERS.
IL 29	MANITO RD./ POWERTON RD.	TAZEWELL	240 V	HPS, 250W, MAST ARM MOUNT (2)	LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION G	2.0		INSTALL NEW LUMINAIRE WIRING, ARRESTORS, FUSES, AND FUSEHOLDERS.
US 34	CARMAN RD.	HENDERSON	240 V	HPS, 250W, MAST ARM MOUNT (4)	LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION G	4.0		INSTALL NEW LUMINAIRE WIRING, ARRESTORS, FUSES, AND FUSEHOLDERS.
US 67	IL 9	MCDONOUGH	240 V	HPS, 250W, MAST ARM MOUNT (4)	LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION G	4.0		INSTALL NEW LUMINAIRE WIRING, ARRESTORS, FUSES, AND FUSEHOLDERS.

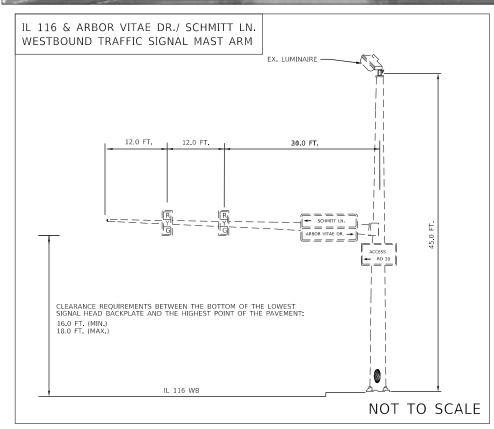
MODEL: Default

USER NAME = hansontj	DESIGNED -	REVISED -								F.A.	SECTION	COUNTY	TOTAL SE	HEET
	DRAWN -	REVISED -	STATE OF ILLINOIS		PROPOSED L	ED LUMI	NAIRE IN	STALLATI	ON DETAILS	VAR. D	4 SIGNAL INSTALLATION 2021	VARIOUS	21	6
PLOT SCALE = 174.3861 ' / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION									CONTRACT	r NO. 68G	06
PLOT DATE = 10/16/2020	DATE -	REVISED -		SCALE.	SHEET	OF	SHEETS	STA	TO STA		TILLINOIS EED AL	D PROJECT		-







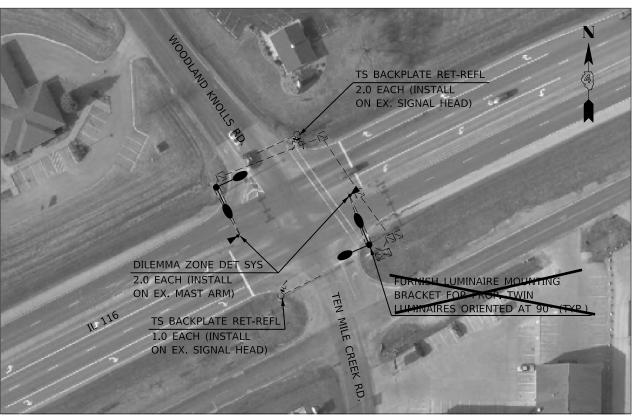


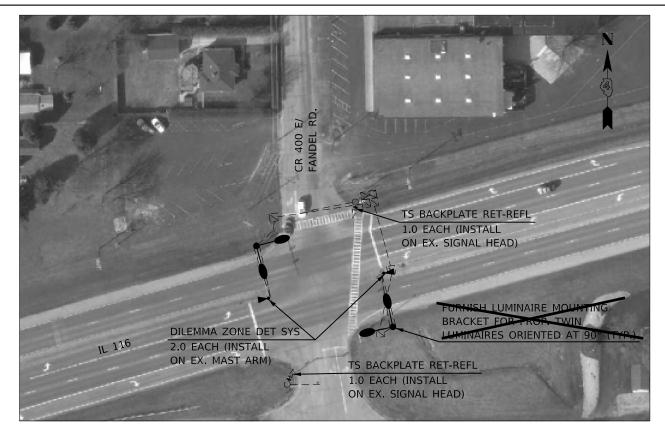
riangle EX. TRAFFIC SIGNAL CONTROLLER CABINET riangle EX. LUMINAIRE -- EX. CONDUIT

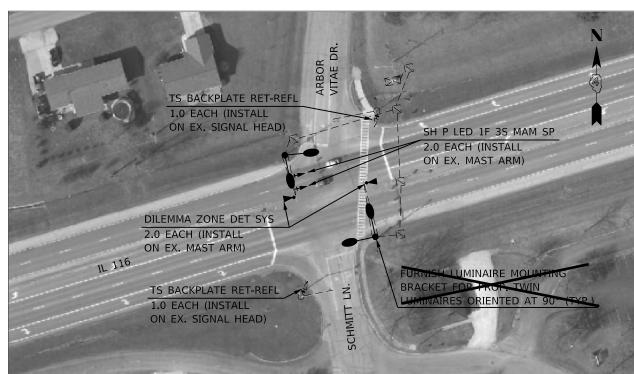
 $_{\Sigma} = -$ EX. COMBINATION MAST ARM +-> EX. SIGNAL HEAD

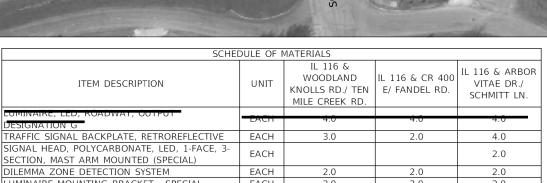
>--- EX. MAST ARM

USER NAME = hansontj	DESIGNED -	REVISED -			FXIST	ING TR	AFFIC SIGNAL PI	ΔNS	F.A. RTF	SECTION	COUNTY	TOTAL SHEET
	DRAWN -	REVISED -	STATE OF ILLINOIS	IL 116 – GERMANTOWN HILLS		VAR	D4 SIGNAL INSTALLATION 2021	VARIOUS	21 7			
PLOT SCALE = 174.3861 / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION		IL 1	16 – GI	EKINANTUVVIN HII	LL9			CONTRAC	T NO. 68G06
PLOT DATE = 10/16/2020	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS STA.	TO STA.		ILLINOIS FED. AII	D PROJECT	









IL 116 & ARBOR VITAE DR./ SCHMITT LN. WESTBOUND TRAFFIC SIGNAL MAST ARM 12.0 FT. 12.0 FT. SYSTEM (INSTALLED ON EX. MAST ARM AIMED WEST TO DETECT EB TRAFFIC) PROP. SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED (SPECIAL) (TYP.) CLEARANCE REQUIREMENTS BETWEEN THE BOTTOM OF THE LOWEST SIGNAL HEAD BACKPLATE AND THE HIGHEST POINT OF THE PAVEMENT: 16.0 FT. (MIN.) 18.0 FT. (MAX.) NOT TO SCALE

IL 116 & SCHMITT LN./ ARBOR VITAE DR. CONSTRUCTION NOTES:

- THE CONTRACTOR SHALL FURNISH AND INSTALL TWO SIGNAL HEADS ON THE WB MAST ARM AS SHOWN IN THE PLANS. THE LAYOUT OF THE SIGNAL HEADS SHALL BE AS FOLLOWS: TWO RED SIGNAL HEADS IN THE TOP ROW, ONE CENTERED YELLOW SIGNAL HEAD IN THE MIDDLE ROW, AND ONE CENTERED GREEN SIGNAL HEAD IN THE BOTTOM ROW, AS SHOWN IN THE DETAIL.
- THE CONTRACTOR SHALL REMOVE THE EXISTING SIGNAL HEADS AND DISPOSE OF THEM OFF THE JOBSITE. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT WILL BE INCLUDED IN THE BID PRICE FOR THE PROPOSED SIGNAL HEADS.
- THE CONTRACTOR SHALL RE-USE THE EXISTING TRAFFIC SIGNAL CABLING. THE COST OF ANY ADDITIONAL JUMPER CABLING REQUIRED TO POWER THE ADDITIONAL RED SIGNAL HEADS SHALL BE INCLUDED IN THE BID PRICE FOR THE SIGNAL HEADS.
- THE CONTRACTOR SHALL INSTALL RETROREFLECTIVE BACKPLATES ON THE PROPOSED SIGNAL HEADS.

TRAFFIC	SIGNAL	LEGEN

- |Z|EX. HANDHOLE
- □□ EX. DOUBLE HANDHOLE
- $_{}$ \equiv = EX. COMBINATION MAST ARM
- >--- EX. MAST ARM
- +L~ PROP. BACKPLATE ON EX. SIGNAL HEAD
- -- EX. CONDUIT

■ PROP. DILEMMA ZONE DETECTION SYSTEM

PROP. SIGNAL HEAD (SEE NOTE)

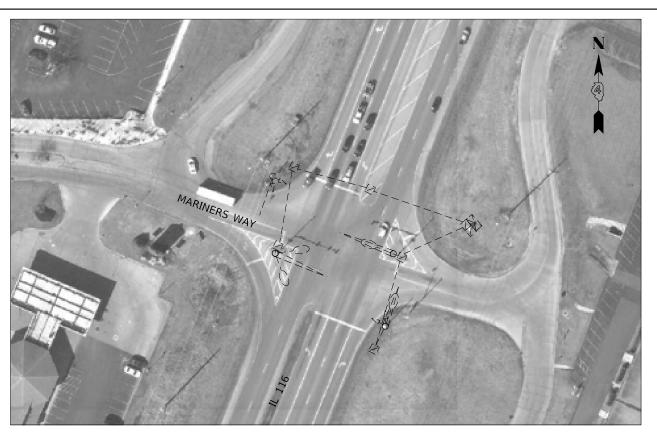
NOT TO SCALE

USER NAME = hansontj	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 174.3861 / in.	CHECKED -	REVISED -	
PLOT DATE = 10/16/2020	DATE -	REVISED -	

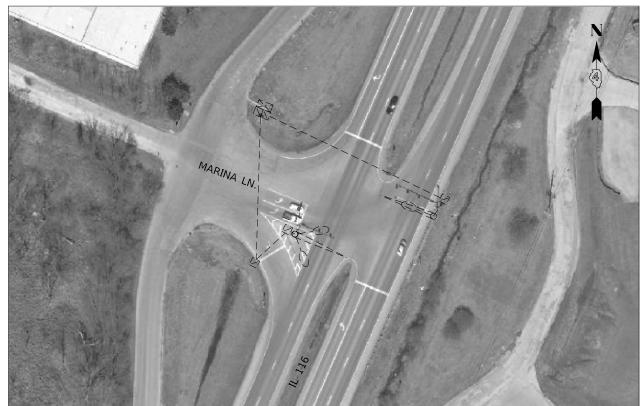
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

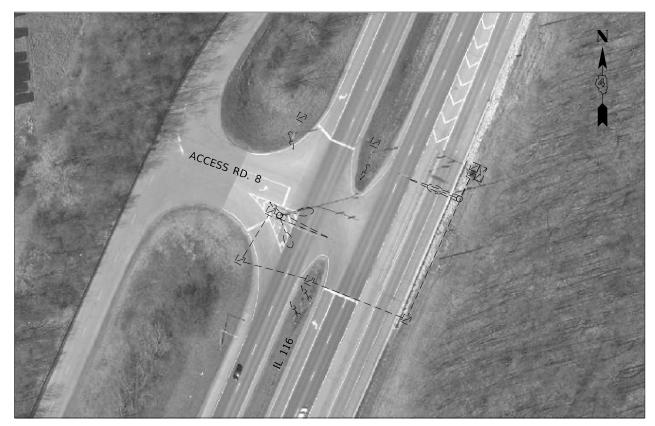
			TRAFFIC SIGNAL PLANS GERMANTOWN HILLS		
	SHEET	OF	SHEETS	STA.	TO S

λ ΓΕ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
٩R.	D4 SIGNAL INSTALLATION 2021	VARIOUS	21	8
		CONTRACT	NO 69	3606









VAR. D4 SIGNAL INSTALLATION 2021 VARIOUS 21 9

TO STA.

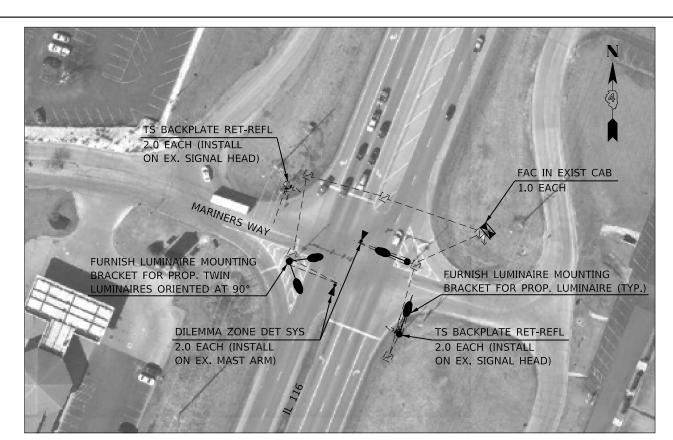
CONTRACT NO. 68G06

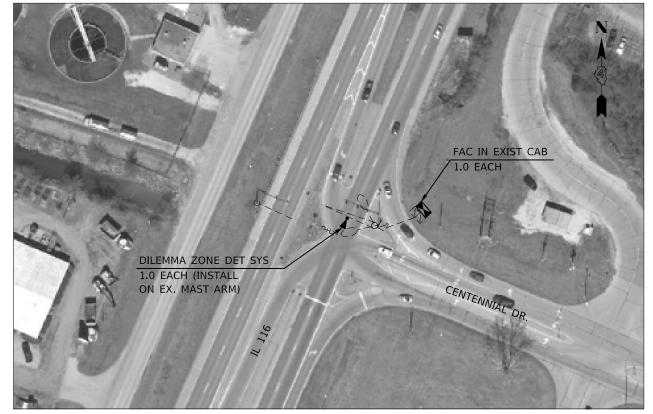
EX. TRAFFIC SIGNAL CONTROLLER CABINET \sim C EX. LUMINAIRE - EX. CONDUIT

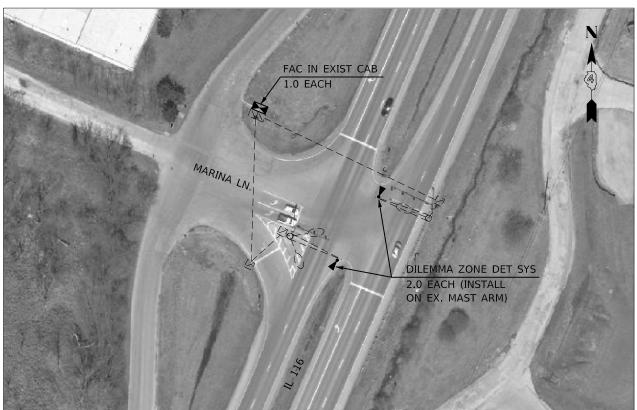
 \square EX. HANDHOLE \square = = - EX. COMBINATION MAST ARM

NS EX. DOUBLE HANDHOLE 5--- EX. MAST ARM

DESIGNED - REVISED - FXISTING TRAFFIC SIGNAL PLANS RTF. SECTION COUNTY SHEETS NO







TS BACKPLATE RET-REFL 1.0 EACH (INSTALL ON EX. SIGNAL HEAD) TS BACKPLATE RET-REFL 1.0 EACH (INSTALL ON EX. SIGNAL HEAD)	DILEMMA ZONE DET SYS 1.0 EACH (INSTALL ON EX. MAST ARM)
TS BACKPLATE RET-REFL ACCESS RD. 8 1.0 EACH (INSTALL	H7XCC INN EXMEST CCXXBS 11.00 EFXCH
ON EX. SIGNAL HEAD) FURNISH LUMINAIRE MOUNTING BRACKET FOR PROP. TWIN LUMINAIRES ORIENTED AT 90°	FURNISH LUMINAIRE MOUNTING BRACKET FOR PROP. LUMINAIRE
TS BACKPLATE RET-REFL 2.0 EACH (INSTALL ON EX. SIGNAL HEAD)	DILEMMA ZONE DET SYS 1.0 EACH (INSTALL ON EX. MAST ARM)

SCHEDULE OF MATERIALS						
ITEM DESCRIPTION	UNIT	IL 116 & MARINERS WAY	IL 116 & CENTENNIAL DR.	IL 116 & MARINA LN.	IL 116 & ACCESS RD. 8	
LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION G	EACH	4.0			3.0	
TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	4.0	2.0	5.0	5.0	
DILEMMA ZONE DETECTION SYSTEM	EACH	2.0	1.0	2.0	2.0	
LUMINAIRE MOUNTING BRACKET - SPECIAL	EACH	3.0			2.0	
FULL-ACTUATED CONTROLLER IN EXISTING	EACH	1.0	1.0	1.0	1.0	

I∑ EX. HANDHOLE □□ EX. DOUBLE HANDHOLE -- EX. CONDUIT

>- - EX. MAST ARM +L> PROP. BACKPLATE ON EX. SIGNAL HEAD

PROP. LED LUMINAIRE & LUMINAIRE MOUNTING BRACKET SPL

PROP. LED LUMINAIRE ON EX. STRUCTURE ■ PROP. DILEMMA ZONE DETECTION SYSTEM

PROP. TRAFFIC SIGNAL CONTROLLER IN EX. CABINET

NOT TO SCALE

USER NAME = hansontj	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 174.3861 / in.	CHECKED -	REVISED -	
PLOT DATE = 10/16/2020	DATE -	REVISED -	

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

PROPOSED TRAFFIC SIGNAL PLANS IL 116 — EAST PEORIA					
SCALE:	SHEET	OF	SHEETS	STA.	TO STA.

VAR. D4 SIGNAL INSTALLATION 2021 VARIOUS 21 10 CONTRACT NO. 68G06







EX. TRAFFIC SIGNAL CONTROLLER CABINET (>- <> EX. LUMINAIRE

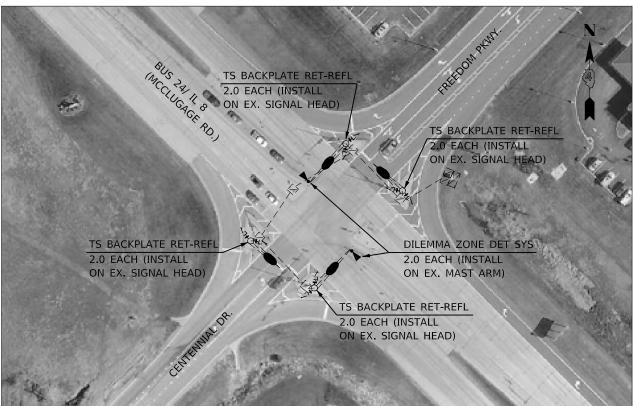
ET \sim C EX. LUMINAIRE - EX. CONDUIT = = - EX. COMBINATION MAST ARM $\stackrel{?}{\downarrow}$ EX. DETECTOR LOOP (6'X6') I∑ EX. HANDHOLE

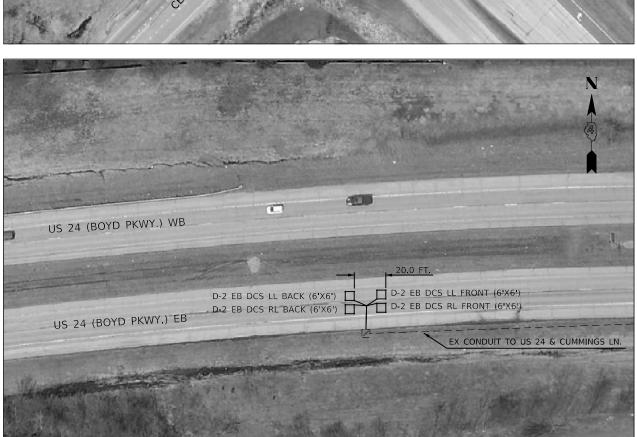
□□ EX. DOUBLE HANDHOLE >--- EX. MAST ARM

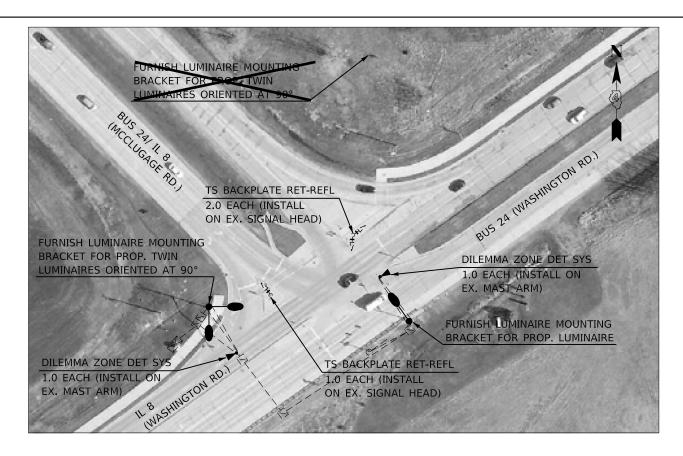
NOT TO SCALE

DESIGNED -REVISED EXISTING TRAFFIC SIGNAL PLANS
 RTE.
 SECTION
 COUNTY
 SHEETS
 NO.

 VAR.
 D4 SIGNAL INSTALLATION 2021
 VARIOUS
 21
 11
 STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION DRAWN REVISED -INTERSECTIONS ALONG US 24 & BUS 24 - WASHINGTON LOT SCALE = 174.3861 / in. CHECKED -REVISED CONTRACT NO. 68G06 SHEET OF SHEETS STA.







_	
	US 24 & CUMMINGS LN. DETECTOR LOOP CONSTRUCTION NOTES
Г	1. ALL DETECTOR LOOPS SHALL UTILIZE A SEPARATE PAIR OF TWISTED/ SHIELDED LEAD-IN CABLE.
- [2. ALL DETECTOR LOOPS SHALL BE INSTALLED IN THE CENTER OF THEIR RESPECTIVE TRAVEL LANES. THE ENGINEER OF TRAFFIC SHALL
	BE NOTIFIED FOR VERIFICATION OF DETECTOR PLACEMENT BEFORE INSTALLATION.
Γ.	3. THE PROPOSED DETECTOR LOOPS SHALL BE CUT IN THE EXISTING PAVEMENT.
4	4. THE FRONT EDGE OF THE FRONT DETECTOR LOOPS SHALL BE 20.0 FT. FROM THE FRONT EDGE OF THE REAR DETECTOR LOOPS.
П	5 REFER TO THE SPECIAL PROVISION FOR DETECTOR LOOP SPECIAL FOR ADDITIONAL INFORMATION

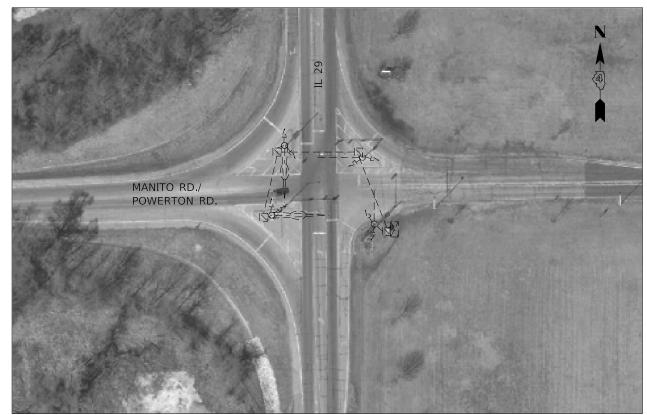
DETECTOR LOOP SCHEDULE					
US 24 (BOYD PKWY.) & CUMMINGS LN.					
DETECTOR LOOP	DETECTOR LOOP,				
	(INCLUDES LEAD-IN)	PHASE			
D-2 EB DCS LL BACK (6'X6')	44.0	2			
D-2 EB DCS RL BACK (6'X6')	38.0	2			
D-2 EB DCS LL FRONT (6'X6')	44.0	2			
D-2 EB DCS RL FRONT (6'X6')	38.0	2			

SCHEDULE OF MATERIALS						
ITEM DESCRIPTION		BUS 24/ IL 8 (MCCLUGAGE RD.) & FREEDOM PKWY./ CENTENNIAL DR.	BUS 24/ IL 8 (MCCLUGAGE RD.) & BUS 24/ IL 8 (WASHINGTON RD.)	US 24 (BOYD PKWY.) & CUMMINGS LN.		
LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION G	EACH	4.0	3.0			
TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	8.0	3.0			
DETECTOR LOOP, SPECIAL	FOOT			164.0		
DILEMMA ZONE DETECTION SYSTEM	EACH	2.0	2.0			

	EX. TRAFFIC SIGNAL CONTROLLER CABINE	T ~<>	EX. LUMINAIRE	\sim	PROP. LED LUMINAIRE ON EX. STRUCTURE
Z	EX. HANDHOLE	$\mathcal{T} = = -$	EX. COMBINATION MAST ARM	•••	PROP. LED LUMINAIRE & LUMINAIRE MOUNTING BRACKET SPI
122	EX. DOUBLE HANDHOLE	J-1 - 1 -	EX. MAST ARM	•	PROP. DILEMMA ZONE DETECTION SYSTEM
			EX. CONDUIT		PROP. DETECTOR LOOP, SPECIAL (6'X6')

USER NAME = hansontj	DESIGNED -	REVISED -			PROPOS	SED TR	RAFFIC SIGNAL F	PI ANS	F.A. BTE	SECTION	COUNTY	TOTAL SHEET
	DRAWN -	REVISED -	STATE OF ILLINOIS	INTERES			IS 24 & BUS 24		VAR.	D4 SIGNAL INSTALLATION 2021	VARIOUS	21 12
PLOT SCALE = 174.3861 / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	INTERSE	CHUNS AL	UNG U	15 24 & BUS 24	I – WASHINGTON			CONTRAC	T NO. 68G06
PLOT DATE = 10/16/2020	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS STA.	TO STA.		ILLINOIS FED. AI	D PROJECT	





EX. TRAFFIC SIGNAL CONTROLLER CABINET >- (> EX. LUMINAIRE -- EX. CONDUIT

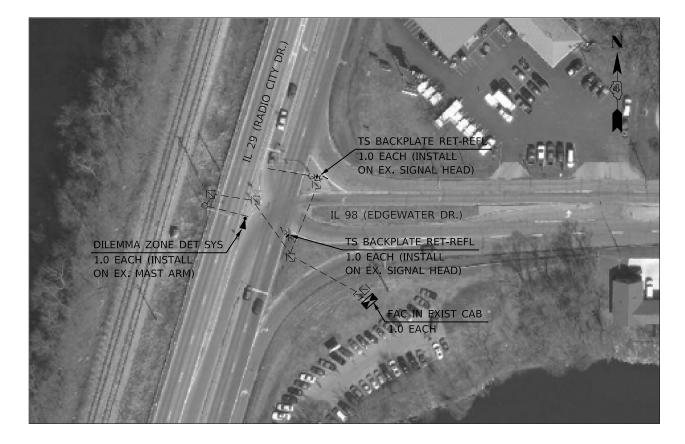
IS EX. HANDHOLE
ISS EX. DOUBLE HANDHOLE >--- EX. MAST ARM

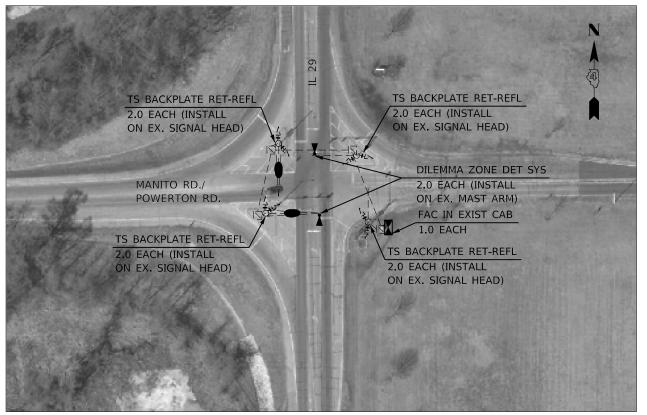
NOT TO SCALE

DESIGNED -REVISED -**EXISTING TRAFFIC SIGNAL PLANS**
 RTE.
 SECTION
 COUNTY
 SHEETS NO.

 VAR.
 D4 SIGNAL INSTALLATION 2021
 VARIOUS
 21
 13

 CONTRACT NO. 68G06
 STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION DRAWN -REVISED -IL 29 – PEKIN CHECKED -PLOT SCALE = 174.3861 / in. REVISED -DATE SHEET OF SHEETS STA. TO STA.





SCHEDULE OF MATERIALS											
ITEM DESCRIPTION	UNIT	IL 29 (RADIO CITY DR.) &	IL 29 & MANITO RD./								
TIEM DESCRIPTION	UNII	IL 98 (EDGEWATER DR.)	POWERTON RD.								
LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION G	EACH		2.0								
TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	2.0	8.0								
DILEMMA ZONE DETECTION SYSTEM	EACH	1.0	2.0								
FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	1.0	1.0								

> ← <> EX. LUMINAIRE

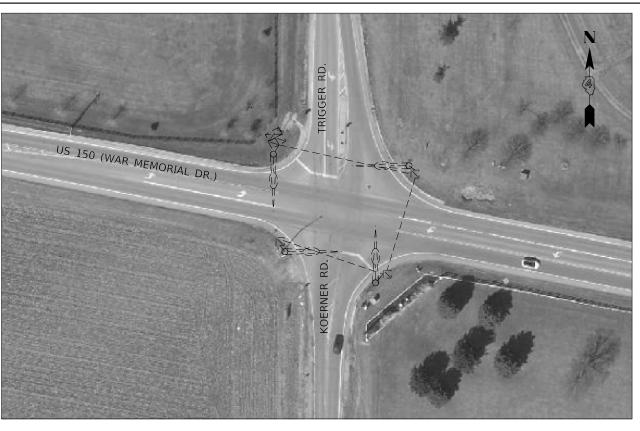
→ PROP. LED LUMINAIRE ON EX. STRUCTURE

I∑∑ EX. DOUBLE HANDHOLE

-- EX. CONDUIT

>- -- EX. MAST ARM

USER NAME = hansontj	DESIGNED -	REVISED -			PROPO	SFD TR	AFFIC S	GNAL PLANS	<u> </u>	F.A. RTF	SECTION	COUNTY	TOTAL S	HEET
	DRAWN -	REVISED -	STATE OF ILLINOIS		1 1101 0				o .	VAR	D4 SIGNAL INSTALLATION 2021	VARIOUS	21	14
PLOT SCALE = 174.3861 ' / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	IL 29 — PEKIN				CONTRACT NO.			NO. 68	306		
PLOT DATE = 10/16/2020	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS FED. AID	PROJECT		









EX. TRAFFIC SIGNAL CONTROLLER CABINET \sim C EX. LUMINAIRE -- EX. CONDUIT

 \square EX. HANDHOLE \square = - EX. COMBINATION MAST ARM

 USER NAME
 = hansontj
 DESIGNED
 REVISED

 DRAWN
 REVISED

 PLOT SCALE
 = 174.3861 ' / in.
 CHECKED
 REVISED

REVISED

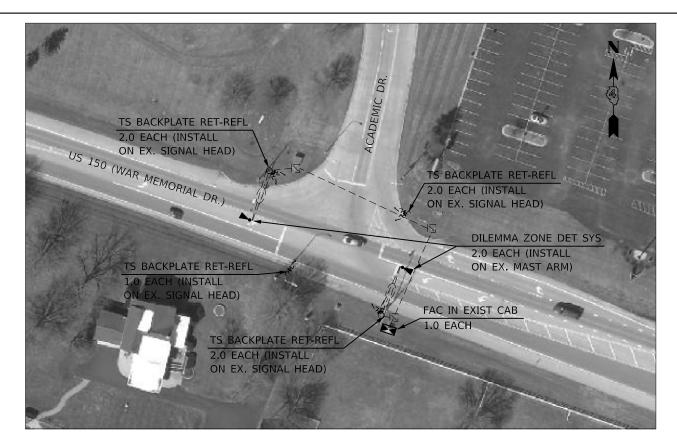
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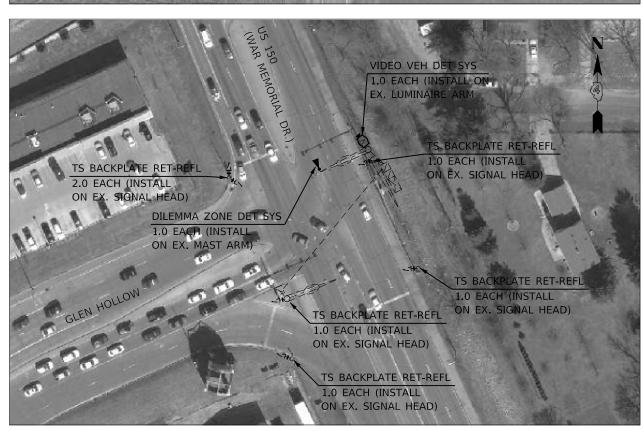
PLOT DATE = 10/16/2020

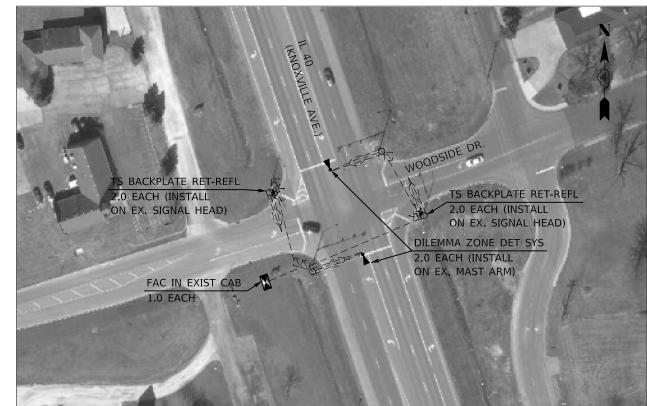
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING TRAFFIC SIGNAL PLANS
INTERSECTIONS ALONG US 150 & IL 40 — PEORIA

SHEET OF SHEETS STA. TO STA.







SCHEDULE OF MATERIALS											
ITEM DESCRIPTION	UNIT	US 150 (WAR MEMORIAL DR.) & KOERNER RD./ TRIGGER RD.	MEMORIAL DR.) &	US 150 (WAR MEMORIAL DR.) & GLEN HOLLOW RD.	IL 40 (KNOXVILLE AVE.) & WOODSIDE DR.						
TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH		7.0	6.0	4.0						
DILEMMA ZONE DETECTION SYSTEM	EACH	2.0	2.0	1.0	2.0						
FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	1.0	1.0		1.0						
VIDEO VEHICLE DETECTION SYSTEM	EACH			1.0							

EX. TRAFFIC SIGNAL CONTROLLER CABINET >— <> EX. LUMINAIRE

EX. HANDHOLE z = -

□□□ EX. DOUBLE HANDHOLE

 $_{\Sigma} = -$ EX. COMBINATION MAST ARM

>--- EX. MAST ARM
--- EX. CONDUIT

PROP. DILEMMA ZONE DETECTION SYSTEM

PROP. VEHICLE VIDEO DETECTION SYSTEM

PROP. TRAFFIC SIGNAL CONTROLLER IN EX. CABINET

NOT TO SCALE

USER NAME = hansontj	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 174.3861 / in.	CHECKED -	REVISED -	
PLOT DATE = 10/16/2020	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

 $|\sum$

PROPOSED TRAFFIC SIGNAL PLANS Intersections along US 150 & IL 40 — Peoria 





-- EX. CONDUIT

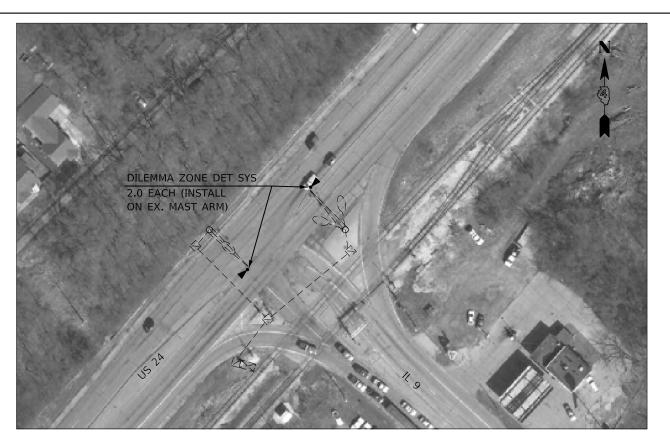
EX. TRAFFIC SIGNAL CONTROLLER CABINET >— (> EX. LUMINAIRE

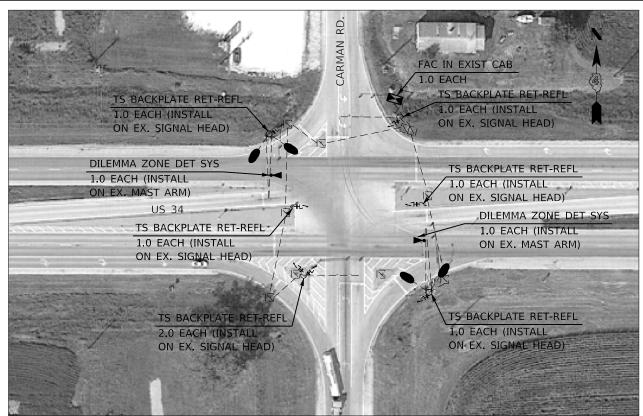
 \square EX. HANDHOLE \square = = - EX. COMBINATION MAST ARM

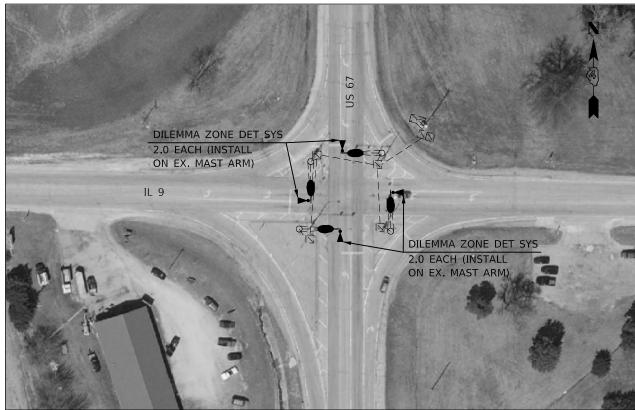
 $\square \square$ EX. DOUBLE HANDHOLE $\supset --$ EX. MAST ARM

NOT TO SCALE

DESIGNED -REVISED -SECTION EXISTING TRAFFIC SIGNAL PLANS STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION DRAWN -REVISED -VAR. D4 SIGNAL INSTALLATION 2021 VARIOUS 21 17 US 24 & IL 9, US 34 & CARMAN, US 67 & IL 9 - VARIOUS COUNTIES CHECKED -PLOT SCALE = 174.3861 / in. REVISED CONTRACT NO. 68G06 PLOT DATE = 10/16/2020 DATE SCALE: SHEET OF SHEETS STA.







SCHEDULE OF MATERIALS										
UNIT	US 24 & IL 9	US 34 & CARMAN RD.	US 67 & IL 9							
EACH		4.0	4.0							
EACH		7.0								
EACH	2.0	2.0	4.0							
EACH		1.0								
	UNIT EACH EACH EACH	UNIT US 24 & IL 9 EACH EACH EACH 2.0	UNIT US 24 & IL 9 US 34 & CARMAN RD. EACH 4.0 EACH 7.0 EACH 2.0 2.0							

EX. TRAFFIC SIGNAL CONTROLLER CABINET >- <> EX. LUMINAIRE

I∑ EX. HANDHOLE

□□ EX. DOUBLE HANDHOLE

>--- EX. MAST ARM

- — EX. CONDUIT

→ PROP. LED LUMINAIRE ON EX. STRUCTURE

PROP. TRAFFIC SIGNAL CONTROLLER

IN EX. CABINET

USER NAME = hansontj	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 174.3861 / in.	CHECKED -	REVISED -	
PLOT DATE = 10/16/2020	DATE -	REVISED -	



SCHEDULE OF MATERIALS		
ITEM DESCRIPTION	UNIT	US 150 EB FLASHER
SIGN PANEL - TYPE 2	SQ FT	16.0
UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	505.0
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1930.0
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	1684.5
TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.	EACH	1.0
GULFBOX JUNCTION, COMPOSITE CONCRETE	EACH	1.0
DRILL EXISTING HANDHOLE	EACH	1.0
SIGNAL HEAD, POLYCARBONATE, LED 1-FACE, 1-SECTION, BRACKET MOUNTED	EACH	2.0
TRAFFIC SIGNAL BACKPLATE	EACH	2.0
GROUND EXISTING HANDHOLE	EACH	3.0
MODIFY EXISTING CONTROLLER AND CABINET	EACH	1.0

EX. HANDHOLE

I∑∑ EX. DOUBLE HANDHOLE

- ENABLE THE OPERATION THE PROPOSED FLASHER BASED ON INPUT FROM THE PROPOSED DILEMMA ZONE DETECTION SYSTEM AND THE PROPOSED VEHICLE VIDEO DETECTION SYTEM (SHEET 16.) THIS WORK WILL BE PAID FOR BY THE BID PRICE FOR "MODIFY EXISTING CONTROLLER AND CABINET."
- THE TRAFFIC SIGNAL POST SHALL BE GROUNDED IN ACCORDANCE WITH NEC REQUIREMENTS. THIS WORK WILL BE INCLUDED IN THE BID PRICE OF THE TRAFFIC SIGNAL POST.

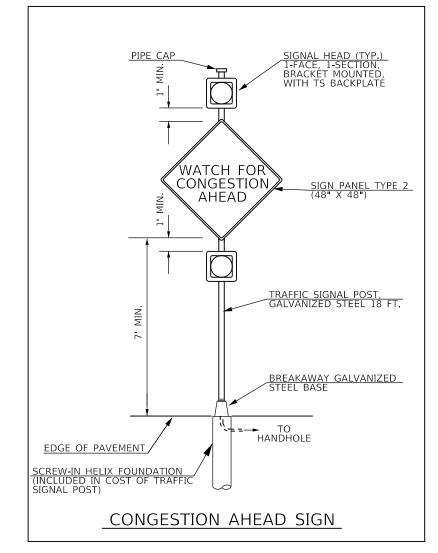
TRAFFIC SIGNAL LEGEND

PROP. GULFBOX JUNCTION, COMPOSITE CONCRETE

PROP. CONDUIT

PROP. FLASHER WITH BACKPLATE

PROP. TRAFFIC SIGNAL POST

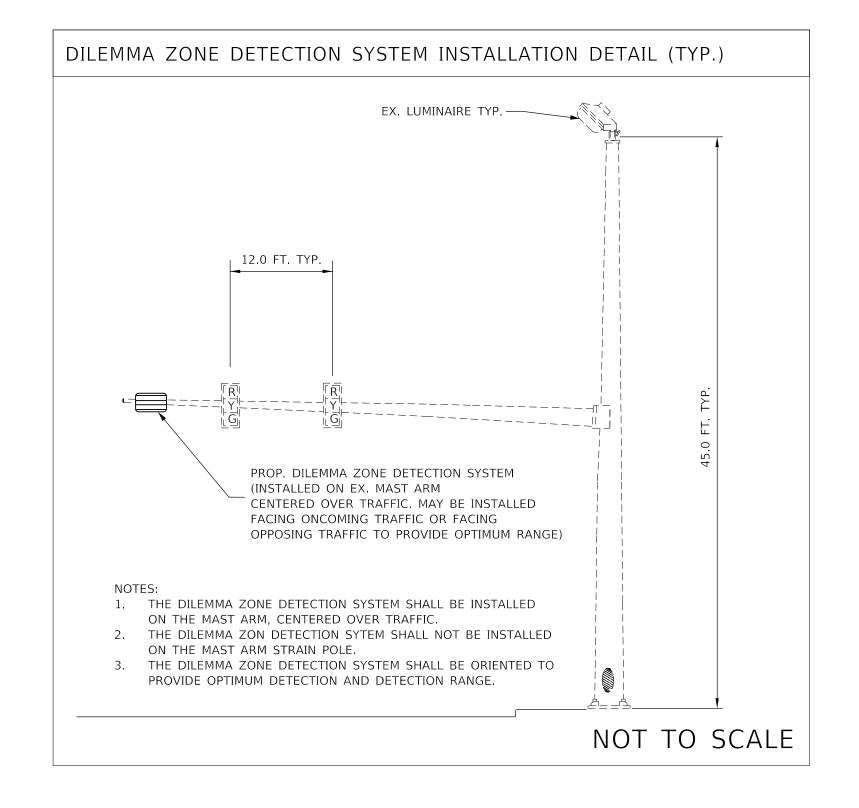


NOT TO SCALE

USER NAME = hansontj	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 174.3861 ' / in.	CHECKED -	REVISED -
PLOT DATE = 10/16/2020	DATE -	REVISED -

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

US 150 EB FLASHER INSTALLATION							SECTION	TOTAL SHEET NO.			
US 150 EB FLASHER INSTALLATION						VAR.	D4 SIGNAL INSTALLATION	2021	VARIOUS	21	19
									CONTRACT	NO. 68	3G06
	SHEET	OF	SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT					



USER NAME = hansontj	DESIGNED -	REVISED -							F.A.	SECTION	COUNTY	SHEET NO
	DRAWN -	REVISED -	STATE OF ILLINOIS	DILEMM	A ZONE DE	TECTIO	N SYSTEM INST <i>i</i>	ALLATION DETAIL	VAR.	D4 SIGNAL INSTALLATION 2021	VARIOUS	21 20
PLOT SCALE = 174.3861 ' / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION								CONTRAC	T NO. 68G06
PLOT DATE = 10/16/2020	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS STA.	TO STA.		ILLINOIS FED. AI	D PROJECT	

LED replacement for 250W HPS Horizontal Mount luminaire

GIVEN CONDITIONS

ROADWAY DATA	Lane Width	12 ft
	Number of Lanes (In One Direction Only)	3
	Median Width	0 ft
	I.E.S. Surface Classification	R3
	Q-Zero Value	.07
LIGHT POLE DATA	Mounting Height	45 ft
	Luminaire Overhang From Edge of Pavement (White Line)	0 ft
LUMINAIRE DATA	Luminaire Type	LED
	I.E.S. Vertical Distribution	Medium
	BUG Rating	U = 0
	I.E.S. Lateral Distribution	Type II or III
	Total Light Loss Factor	0.684
LAYOUT DATA	Spacing	160 ft
	Configuration	One Sided

NOTES:

1. Total light loss factor is the product of "Lumen Depreciation" (LLD) = 0.90, "Dirt Depreciation" (LDF) = 0.80, and "Equipment factors" (EF) = 0.95.

PERFORMANCE REQUIREMENTS

NOTE: These performance requirements shall be the acceptable standards of photometric performance for the luminaire, based on the given conditions listed above.

ILLUMINANCE	Average Illuminance, E _{AVE}	0.9 fc to 1.4 fc	
	Uniformity Ratio, EAVE/EMIN	≤ 3.0:1	
LUMINANCE	Average Luminance, LAVE	0.6 cd/m² to 0.9 cd/m²	
	Uniformity Ratio, LAVE/LMIN	≤ 3.5:1	
	Uniformity Ratio, L_{MAX}/L_{MIN}	≤ 6.0:1	
	Max. Veiling Luminance Ratio, Lv/Lave	< 0.3:1	

NOTES:

1. ILLUMINANCE AND LUMINANCE VALUES CAN BE ROUNDED TO ONE SIGNIFICANT DIGIT.

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	DRAWN -	REVISED -
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