

INDEX OF SHEETS

SEE SHEET 2 FOR INDEX OF SHEETS

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS**

**PROPOSED
HIGHWAY PLANS**

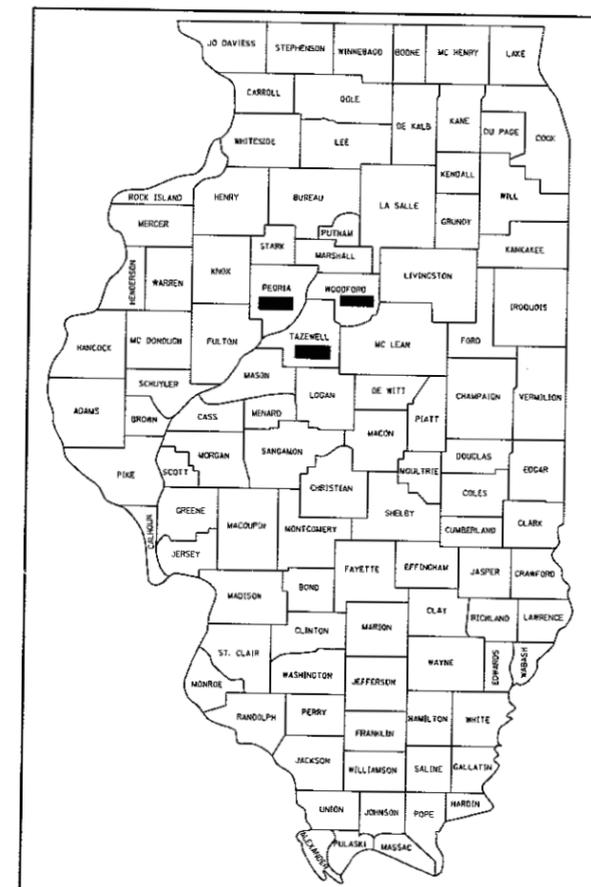
**VARIOUS ROUTES
SECTION D4 ELECTRICAL 2017
PEORIA, TAZEWELL, & WOODFORD COUNTIES**

C-94-022-17

RTE. VAR.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
D4 ELECTRICAL 2017		ILLINOIS	28	1

CONTRACT NO. 68D43
PEORIA, TAZEWELL, WOODFORD

D-94-009-17



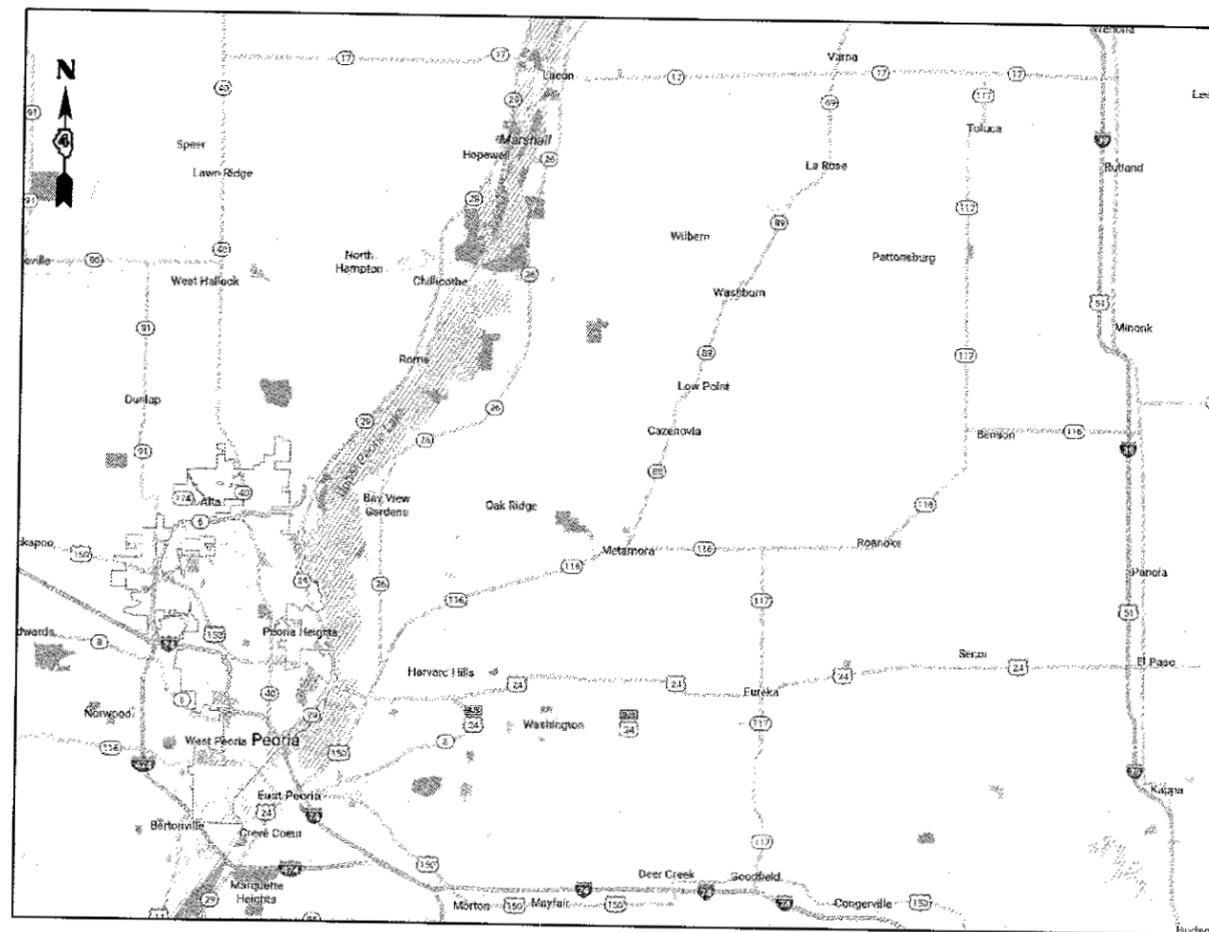
LOCATION OF SECTION INDICATED THUS: - [Black Box]

HIGHWAY STANDARDS

SEE SHEET 2 FOR A LIST OF APPLICABLE HIGHWAY STANDARDS

PROJECT DESCRIPTION

REPLACEMENT AND INSTALLATION OF TRAFFIC SIGNAL COMPONENTS AT VARIOUS LOCATIONS IN PEORIA, TAZEWELL, AND WOODFORD COUNTIES



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

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

CATALOG NO. 35433-00D
CONTRACT NO. 68D43

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED April 7 20 17
Kennel A. Ganneth
REGION THREE ENGINEER

May 12 20 17
Marion M. Addis, PE
ENGINEER OF DESIGN AND ENVIRONMENT

May 12 20 17
Ashe
DIRECTOR OF PROGRAM DEVELOPMENT 2

**PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS**

NO COMMITMENTS HAVE BEEN MADE IN CONJUNCTION WITH THIS PROJECT.

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11	PROPOSED TRAFFIC SIGNAL CABLE AND PHASE DIAGRAMS - US 24 (BOYD PARKWAY & CUMMINS), WASHINGTON
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23 - 25	PROPOSED FIBER OPTIC INTERCONNECT - IL 40 (KUMPF BLVD) FROM ADAMS STREET TO MARTIN LUTHER KING DRIVE
26	BATTERY BACKUP SYSTEM CABINET DETAIL
27	BATTERY BACKUP SYSTEM CABINET WIRING DIAGRAM
28	BATTERY BACKUP SYSTEM BLOCK AND BYPASS SWITCH DIAGRAMS

HIGHWAY STANDARDS	
STANDARD	APPLICATION
000001-06	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
001006	DECIMAL OF AN INCH AND OF A FOOT
701001-02	OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 4.5 M (15') AWAY
701006-05	OFF-ROAD OPERATIONS, 2L, 2W, 4.5 M (15') TO 600 MM (24") FROM PAVEMENT EDGE
701011-04	OFF-ROAD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701101-05	OFF-ROAD OPERATIONS, MULTILANE, 4.5 M (15') TO 600 MM (24") FROM PAVEMENT EDGE
701106-02	OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 4.5 (15') AWAY
701201-04	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS \geq 45 MPH
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701602-08	URBAN LANE CLOSURE, MULTILANE, 2W WITH BIDIRECTIONAL LEFT TURN LANE
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-06	TRAFFIC CONTROL DEVICES
857001-01	STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES
862001-01	UNINTERRUPTABLE POWER SUPPLY (UPS)
873001-02	TRAFFIC SIGNAL GROUNDING AND BONDING
877001-06	STEEL MAST ARM ASSEMBLY AND POLE 16' THROUGH 55'
877006-05	STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS
880006-01	TRAFFIC SIGNAL MOUNTING DETAILS

* PEORIA, TAZEWELL, WOODFORD

FILE NAME =	USER NAME = ka19bbr	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	COMMITMENTS, INDEX OF SHEETS, AND HIGHWAY STANDARDS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
68043 - Misc. Electrical Project (Final Plans 4-7-17).dgn		DRAWN -	REVISED -			VAR.	D4 TRAFFIC SIGNALS 2017	*	28	2	
	PLOT SCALE = 38.8588 / in.	CHECKED -	REVISED -			CONTRACT NO. 68043					
	PLOT DATE = 4/7/2017	DATE -	REVISED -			SCALE:	STA.	TO STA.	ILLINOIS FED. AID PROJECT		

CONSTRUCTION NOTES

1. EXISTING UTILITY LOCATION INFORMATION IS NOT SHOWN ON THE PLAN SHEETS. THE CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF ALL UTILITIES AND PRIVATELY OWNED FACILITIES PRIOR TO THE INSTALLATION OF ANY COMPONENTS. THE CONTRACTOR SHALL VERIFY EXISTING FIELD CONDITIONS AND TERRAIN PRIOR TO COMMENCING WORK ON THE PROJECT.
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 UNLESS SPECIFIED OTHERWISE.
5. ELECTRICAL CABLE WILL BE MEASURED FOR PAYMENT IN ACCORDANCE WITH ARTICLE 873.04.
6. ALL SURPLUS MATERIALS SHALL BE DISPOSED OF IN ACCORDANCE WITH ARTICLE 202.03 OF THE STANDARD SPECIFICATION.
7. ANY MAINTENANCE OF EXISTING ELECTRICAL FACILITIES WILL BE CONSIDERED EXTRA WORK IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.
8. THE EXISTING LIGHTING SHALL REMAIN IN OPERATION DURING THE INSTALLATION OF THE PROPOSED CONDUIT AND ELECTRIC CABLE.
9. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL ITEMS REQUIRED TO ATTACH THE CONDUITS AND JUNCTION BOXES TO THE STRUCTURE, INCLUDING, BUT NOT LIMITED TO UNI-STRUT, BRACKETS, SEAL-TITE, LBS, FITTINGS, HARDWARE, AND OTHER MISCELLANEOUS ITEMS. THESE ITEMS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE BID PRICE FOR THE CONDUIT ATTACHED TO STRUCTURE PAY ITEM.
10. CONDUIT ATTACHMENT BRACKETS SHALL BE INSTALLED AT 8 FT. SPACINGS (MAXIMUM) ON STRUCTURES.
11. THE CONTRACTOR SHALL GROUND ALL EXPOSED STEEL CONDUITS IN ACCORDANCE WITH NEC REQUIREMENTS. THE CONTRACTOR SHALL MAINTAIN THE CONTINUITY OF THE GROUND SYSTEM WHEN USING NON-METALLIC SEAL-TITE CONDUIT BY INSTALLING A #6 GROUNDING CONDUCTOR INSIDE THE SEAL-TITE AND BONDING THIS WIRE TO THE GALVANIZED STEEL CONDUITS AT EACH END. THE COST OF THIS WORK SHALL BE INCLUDED IN THE UNIT BID PRICE FOR THE PROPOSED CONDUIT.
12. ALL CONDUIT ATTACHMENT BRACKETS AND HARDWARE SHALL BE STAINLESS STEEL.
13. THE CONTRACTOR SHALL INSTALL THREAD LOCKER ON ALL ATTACHED CONDUIT THREADED CONNECTIONS TO PREVENT LOOSENING THROUGH VIBRATION.
14. THE CONTRACTOR SHALL REMOVE THE EXISTING COPPER INTERCONNECT CABLE ALONG IL 40 (KUMPF BLVD) FROM ADAMS STREET TO M.L. KING DRIVE AND DISPOSE OF IT OFF OF THE RIGHT OF WAY. THE COST OF THIS WORK SHALL BE INCLUDED IN THE COST OF THE PROPOSED FIBER OPTIC CABLE.
15. THE CONTRACTOR SHALL FURNISH AND INSTALL A 12 GA, STRANDED (EPR-TYPE RHW OR THHN) INSULATED TRACER CABLE IN ALL CONDUITS CONTAINING FIBER OPTIC CABLE. THE CABLE SHALL BE INSTALLED CONTINUOUS FROM CABINET TO CABINET AND LABELED INSIDE EACH CABINET WITH THE DIRECTION. THE COST OF THIS WORK SHALL BE INCLUDED IN THE COST OF THE PROPOSED FIBER OPTIC CABLE.
16. THE CONTRACTOR SHALL TERMINATE TWELVE MULTIMODE FIBERS FROM EACH CABLE END AT EACH EXISTING TRAFFIC SIGNAL CABINET. THE FIBERS SHALL BE LABELED IN EACH CABINET WITH THE CABLE DIRECTION, BUFFER TUBE COLOR, AND FIBER COLOR. THE COST OF THIS WORK SHALL BE INCLUDED IN THE COST OF THE PROPOSED FIBER OPTIC CABLE..

• PEORIA, TAZEWELL, WOODFORD

FILE NAME =	USER NAME = keithbr	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CONSTRUCTION NOTES	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
68043 - Misc. Electrical Project (Final Plans 4-7-17).dgn		DRAWN -	REVISED -			VAR.	D4 TRAFFIC SIGNALS 2017	*	28	3	
PLOT SCALE = 38.8588' / in.		CHECKED -	REVISED -			CONTRACT NO. 68D43					
PLOT DATE = 4/7/2017		DATE -	REVISED -			SCALE:	STA.	TO STA.	ILLINOIS FED. AID PROJECT		

URBAN
0021

SUMMARY OF QUANTITIES

PEORIA COUNTY

TAZEWELL COUNTY

WOODFORD COUNTY

CODE	ITEM DESCRIPTION	UNIT	TOTAL QTY.	CONST. TYPE	CONST. TYPE	CONST. TYPE	CONST. TYPE	CONST. TYPE	CONST. TYPE	CONST. TYPE	CONST. TYPE	CONST. TYPE	CONST. TYPE	CONST. TYPE
				CODE 0021 100% STATE 0% CITY SIGNALS AND LIGHTING URBAN	CODE 0021 90% STATE 10% CITY SIGNALS BARTONVILLE URBAN	CODE 0021 100% STATE 0% CITY SIGNALS PEORIA URBAN	CODE 0021 95% STATE 5% CITY SIGNALS PEORIA URBAN	CODE 0021 93.3% STATE 6.7% CITY SIGNALS PEORIA URBAN	CODE 0021 90% STATE 10% CITY SIGNALS PEORIA URBAN	CODE 0021 85% STATE 15% CITY SIGNALS PEORIA URBAN	CODE 0021 93.3% STATE 6.7% CITY SIGNALS EAST PEORIA URBAN	CODE 0021 90% STATE 10% CITY SIGNALS EAST PEORIA URBAN	CODE 0021 90% STATE 10% CITY SIGNALS WASHINGTON URBAN	CONST. TYPE CODE 0021 100% STATE 0% CITY OVERHEAD LIGHTING WENONA URBAN
67100100	MOBILIZATION	LSUM	1.0	0.10	0.10	0.10	0.05	0.05	0.25	0.02	0.03	0.15	0.05	0.10
81300550	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12" X 12" X 6"	EACH	6.0	6.0										
81702130	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 6	FOOT	864.0	864.0										
84200600	REMOVAL OF LIGHTING UNIT, NO SALVAGE	EACH	8.0											8.0
84200804	REMOVAL OF POLE FOUNDATION	EACH	8.0											8.0
84500110	REMOVAL OF LIGHTING CONTROLLER	EACH	1.0											1.0
84500120	REMOVAL OF ELECTRIC SERVICE INSTALLATION	EACH	1.0											1.0
84500130	REMOVAL OF LIGHTING CONTROLLER FOUNDATION	EACH	1.0											1.0
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 5C	FOOT	1617.0		530.0								1087.0	
87702191	STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 16 FT. AND 30 F	EACH	1.0		1.0									
87702900	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 34 FT.	EACH	1.0		1.0									
88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	4.0		4.0									
88030050	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	4.0		4.0									
88030070	SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	2.0										2.0	

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• PEORIA, TAZEWELL, WOODFORD

FILE NAME =	USER NAME = kschbr	DESIGNED -	REVISED -
68D43 - Misc. Electrical Project (Final Plans 4-7-17).dgn		DRAWN -	REVISED -
PLOT SCALE = 38,0568' / 1" =		CHECKED -	REVISED -
PLOT DATE = 4/7/2017		DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE:	STA.	TO STA.
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D4 TRAFFIC SIGNALS 2017		28	4
			CONTRACT NO. 68D43	
ILLINOIS FED. AID PROJECT				

REV

10/21/17

URBAN
002!

SUMMARY OF QUANTITIES				PEORIA COUNTY					TAZEWELL COUNTY					WOODFORD COUNTY
				CONST. TYPE CODE 0021 100% STATE 0% CITY SIGNALS AND LIGHTING URBAN	CONST. TYPE CODE 0021 90% STATE 10% CITY SIGNALS BARTONVILLE URBAN	CONST. TYPE CODE 0021 100% STATE 0% CITY SIGNALS PEORIA URBAN	CONST. TYPE CODE 0021 95% STATE 5% CITY SIGNALS PEORIA URBAN	CONST. TYPE CODE 0021 93.3% STATE 6.7% CITY SIGNALS PEORIA URBAN	CONST. TYPE CODE 0021 90% STATE 10% CITY SIGNALS PEORIA URBAN	CONST. TYPE CODE 0021 85% STATE 15% CITY SIGNALS PEORIA URBAN	CONST. TYPE CODE 0021 93.3% STATE 6.7% CITY SIGNALS EAST PEORIA URBAN	CONST. TYPE CODE 0021 90% STATE 10% CITY SIGNALS EAST PEORIA URBAN	CONST. TYPE CODE 0021 90% STATE 10% CITY SIGNALS WASHINGTON URBAN	CONST. TYPE CODE 0021 100% STATE 0% CITY OVERHEAD LIGHTING WENONA URBAN
CODE	ITEM DESCRIPTION	UNIT	TOTAL QTY.											
88030080	SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	2.0										2.0	
88200510	TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	12.0		8.0								4.0	
89500100	RELOCATE EXISTING SIGNAL HEAD	EACH	2.0										2.0	
89502210	MODIFY EXISTING CONTROLLER CABINET	EACH	1.0										1.0	
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1.0		1.0									
X0326885	VIDEO DETECTION SYSTEM	EACH	3.0			2.0			1.0					
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	LSUM	1.0		0.15	0.10	0.05	0.05	0.20	0.02	0.03	0.15	0.15	
X8110455	CONDUIT ATTACHED TO STRUCTURE, 1 1/4" DIA., STAINLESS STEEL	FOOT	210.0	210.0										
X8430100	REMOVE EXISTING CONDUIT ATTACHED TO STRUCTURE	FOOT	210.0	210.0										
X8710024	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM24F	FOOT	2814.0			2814.0								
Z0033068	TRAFFIC SIGNAL BATTERY BACKUP SYSTEM	EACH	20.0		1.0		1.0	2.0	9.0		1.00	5.0	1.0	
X1400236	REMOVE GROUT FROM EXISTING MAST ARM	EACH	65.0	2.0		2.0	5.0	6.0	46.0	4.0				
X1400237	INSTALL SCREEN ON EXISTING MAST ARM	EACH	108.0	5.0		4.0	5.0	9.0	81.0	4.0				

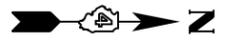
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• PEORIA, TAZEWELL, WOODFORD

FILE NAME =	USER NAME = kashbr	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES (CONTINUED)	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
68043 - Misc. Electrical Project (Final Plans 4-7-17).dgn	DRAWN -	REVISED -	VAR.			D4 TRAFFIC SIGNALS 2017	*		28	5
PLOT SCALE = 38.8988 1/ in.	CHECKED -	REVISED -								
PLOT DATE = 4/7/2017	DATE -	REVISED -				SCALE:	STA.	TO STA.	CONTRACT NO. 68043	

REV

EX. UTILITY POLE WITH TRANSFORMER
 EX. ELECTRICAL SERVICE FOR LIGHTING SYSTEM
 30'
 EX. LIGHTING CONTROLLER 240V PEDESTAL MOUNT (INSTALLED ON CONCRETE FOUNDATION)



EX. LIGHT POLE, 45 FT MH WITH 15 FT MAST ARM AND HPS LUMINAIRE INSTALLED ON CONCRETE FOUNDATION

IL 251 / IL 17 (CHESTNUT ST.)

BILL OF MATERIALS

ITEM DESCRIPTION	UNIT	TOTAL QTY.
REMOVAL OF LIGHTING UNIT, NO SALVAGE	EACH	8.0
REMOVAL OF POLE FOUNDATION	EACH	8.0
REMOVAL OF LIGHTING CONTROLLER	EACH	1.0
REMOVAL OF ELECTRIC SERVICE INSTALLATION	EACH	1.0
REMOVAL OF LIGHTING CONTROLLER FOUNDATION	EACH	1.0

THE CONTRACTOR SHALL REMOVE THE EXISTING CONTROLLER STAND PAD AND DISPOSE OF IT OFF OF THE RIGHT OF WAY IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS. THE COST OF THIS WORK SHALL BE INCLUDED IN THE UNIT BID PRICE FOR THE CONTROLLER FOUNDATION REMOVAL.

NOT TO SCALE

• PEORIA, TAZEVELL, WOODFORD

FILE NAME =	USER NAME = kesthbr	DESIGNED -	REVISED -
68D43 - Misc. Electrical Project (Final Plans 4-7-17).dgn		DRAWN -	REVISED -
	PLOT SCALE = 38.0588' / in.	CHECKED -	REVISED -
	PLOT DATE = 4/7/2017	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**REMOVAL OF EXISTING LIGHTING SYSTEM
 IL 17 & IL 251 - WENONA**

SCALE: _____ STA. _____ TO STA. _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D4 TRAFFIC SIGNALS 2017		28	6
			CONTRACT NO. 68D43	
ILLINOIS FED. AID PROJECT				



BILL OF MATERIALS		
ITEM DESCRIPTION	UNIT	TOTAL QTY.
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 5C	FOOT	530.0
STEEL MAST ARM ASSEMBLY AND POLE, 34 FT.	EACH	1.0
STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS,	EACH	1.0
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	4.0
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	4.0
TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	8.0
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1.0
TRAFFIC SIGNAL BATTERY BACKUP SYSTEM	EACH	1.0



TRAFFIC SIGNAL LEGEND

- EX. HANDHOLE
- EX. CONDUIT
- EX. PEDESTRIAN PUSHBUTTON
- EX. SIGNAL POST
- EX. CONTROLLER CABINET (SIGNAL)
- EX. PEDESTRIAN SIGNAL HEAD
- PROP. SIGNAL HEAD W/ BACKPLATE
- PROP. STL MAST ARM ASSEMBLY
- PROP. BATTERY BACKUP SYSTEM
- EX. SIGNAL COMPONENT TO BE REUSED AND RELOCATED

SCHEDULE OF MAST ARM ASSEMBLIES AND POSTS			
REF.	LOCATION	TYPE	LENGTH
MA-1	NE QUADRANT	S MAA & P DMA	30 FT.
MA-2	NE QUADRANT	S MAA & P DMA	16 FT.
MA-3	SW QUADRANT	S MAA & P	34 FT.
TS-1	SE QUADRANT	EXISTING	14 FT.
TS-2	NW QUADRANT	EXISTING	14 FT.

SCHEDULE OF TRAFFIC SIGNAL HEADS			
QTY.	UNIT	ITEM	LOCATION
2.0	EACH	SH, LED, 1F, 3-SEC, BM	4,7
5.0	EACH	SH, LED, 1F, 3-SEC, MAM	1,2,3,5,6
8.0	EACH	SIGNAL BACKPLATE, REFLECTIVE	1,2,3,4,5,6,7,8

• PEORIA, TAZEWELL, WOODFORD

FILE NAME =	USER NAME = keathbr	DESIGNED -	REVISED -
68D43 - Misc. Electrical Project (Final Plans 4-7-17).dgn		DRAWN -	REVISED -
	PLOT SCALE = 38.0588' / in.	CHECKED -	REVISED -
	PLOT DATE = 4/7/2017	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

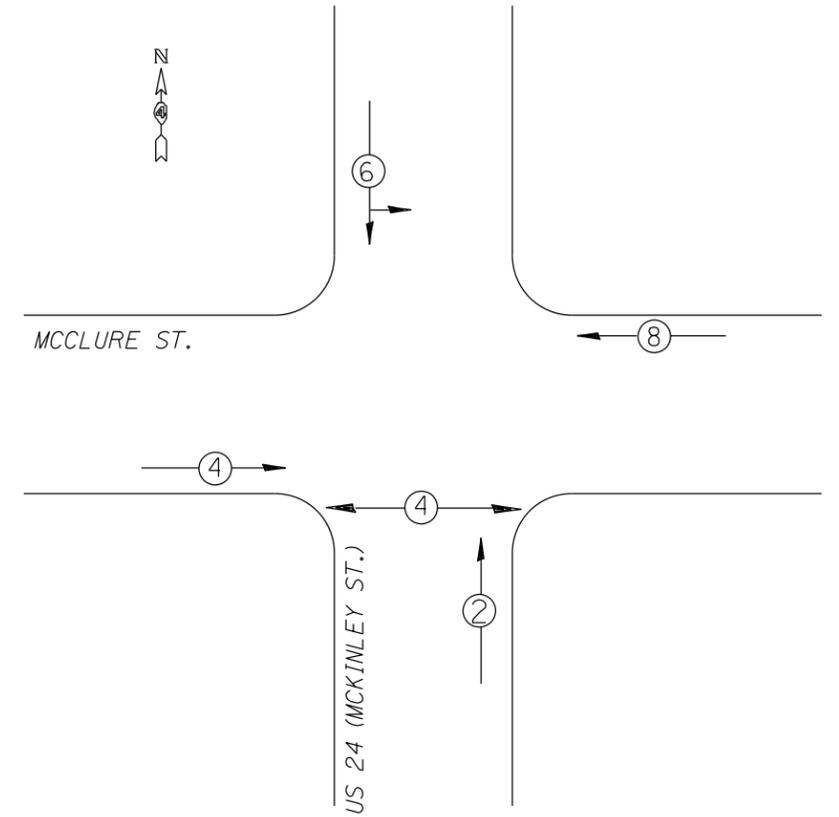
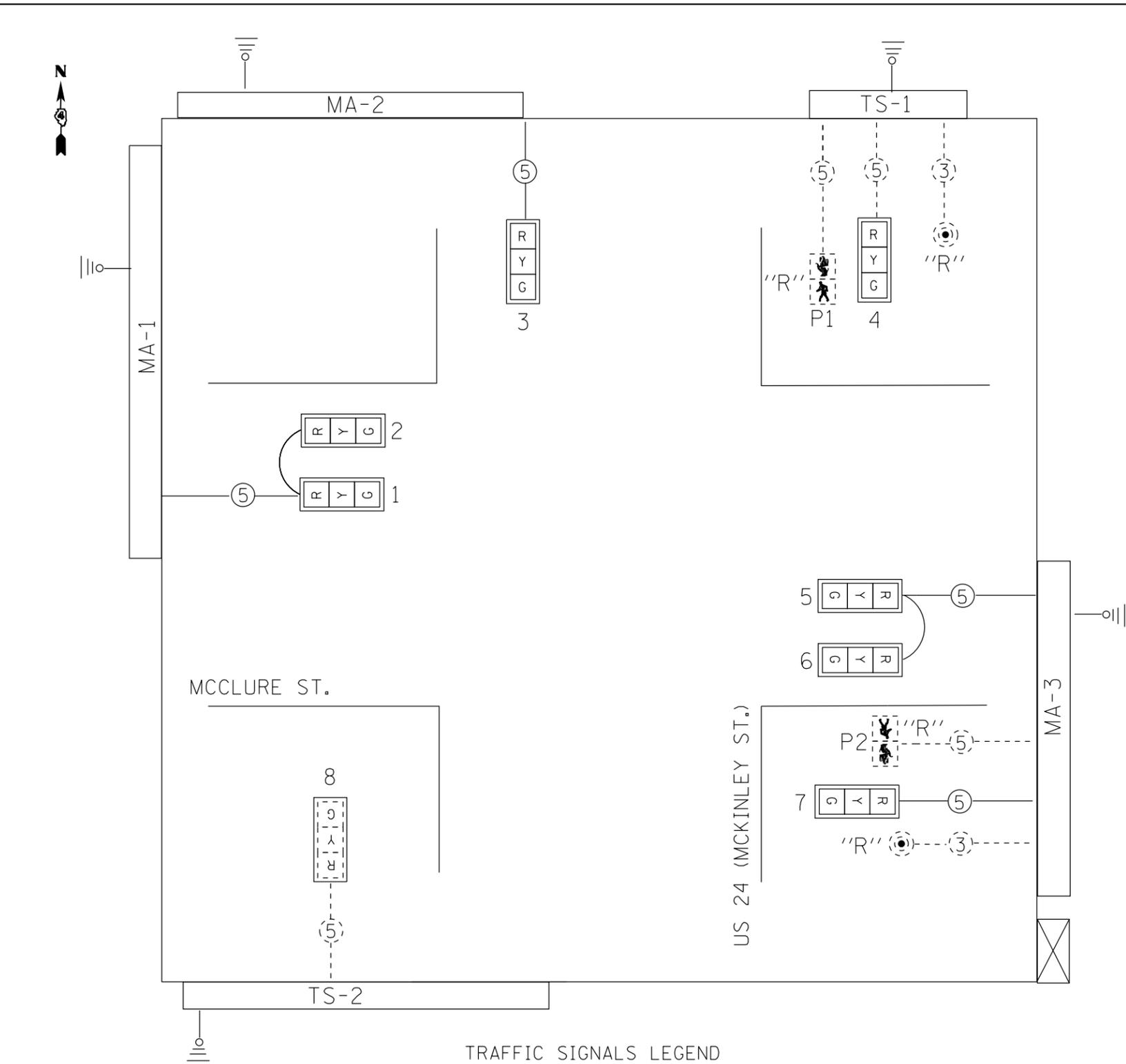
**PROPOSED TRAFFIC SIGNALS
US 24 (MCKINLEY) & MCCLURE - BARTONVILLE**

SCALE: STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D4 TRAFFIC SIGNALS 2017		28	7
			CONTRACT NO. 68D43	
ILLINOIS FED. AID PROJECT				

EXISTING AND PROPOSED PHASE DIAGRAM

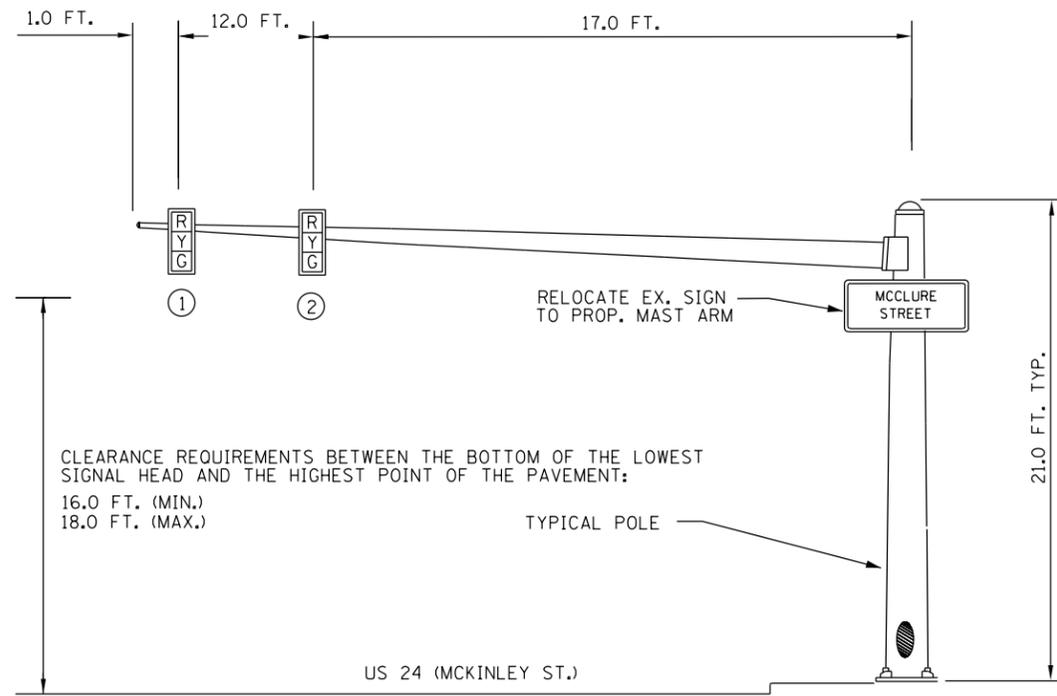
NAME OF INTERSECTION US 24 (MCKINLEY ST.) & MCCLURE ST.
 EXISTING CONTROLLER: ECONOLITE ASC/2S TS-2 TYPE 2 IN TYPE III
 CABINET, TS-1 BACKPANEL, 12 POSITION LOAD BAY



ALL TRAFFIC SIGNAL MAST ARMS, CONTROLLER CABINETS, HANDHOLES (LIDS AND FRAMES), AND EXPOSED METALLIC CONDUITS SHALL BE GROUNDED AND SAFETY BONDED IN ACCORDANCE WITH NEC REQUIREMENTS.

TRAFFIC SIGNALS LEGEND

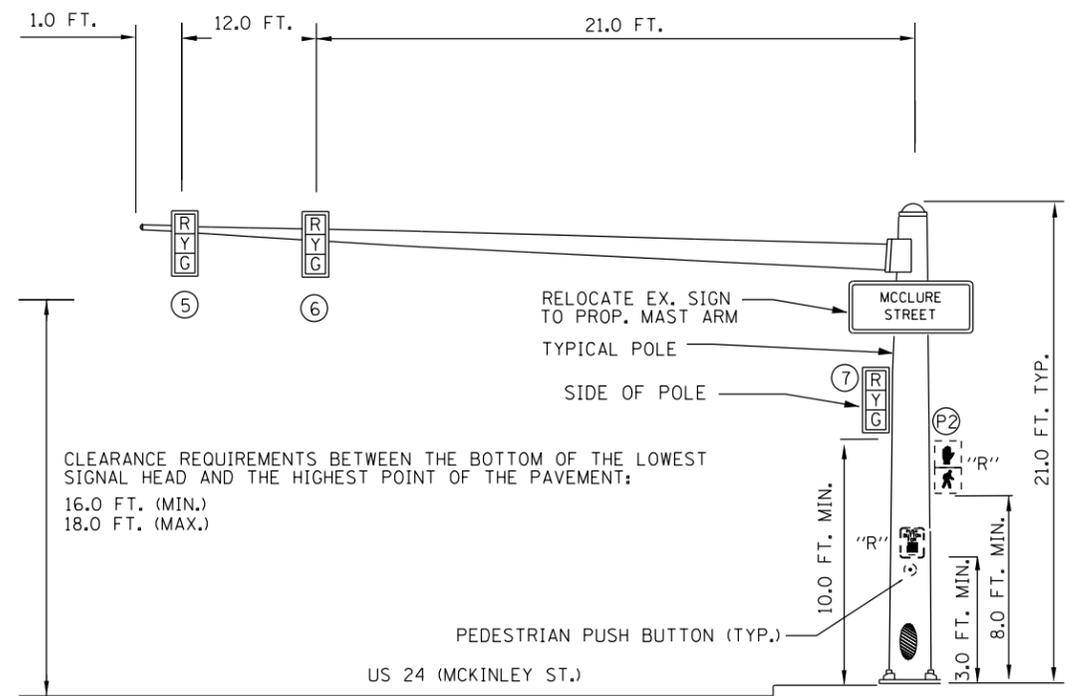
	EX. CONTROLLER (SIGNAL)		EX. GROUND/SAFETY BOND (RE-ESTABLISHED)
	PROP. 3 SEC. SIGNAL HEAD W/BACKPLATE		EX. 3/C NO. 14 SIGNAL CABLE
	EX. PEDESTRIAN SIGNAL HEAD (RELOCATED)		EX. 5/C NO. 14 SIGNAL CABLE
	EX. PEDESTRIAN PUSH-BUTTON (RELOCATED)		PROP. 5/C NO. 14 SIGNAL CABLE
"R"	EX. SIGNAL COMPONENT TO BE RELOCATED		



NORTHBOUND TRAFFIC SIGNAL

NORTHEAST CORNER OF US 24 (MCKINLEY ST.) & MCLURE ST.

MA-1 30'

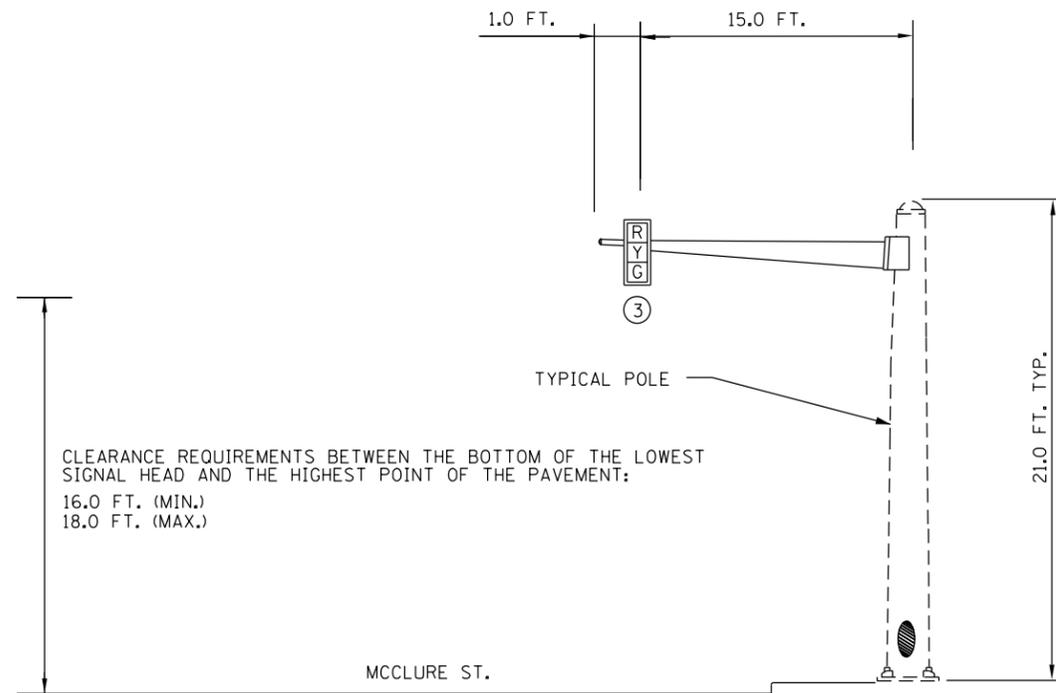


SOUTHBOUND TRAFFIC SIGNAL

SOUTHWEST CORNER OF US 24 (MCKINLEY ST.) & MCLURE ST.

MA-3 34'

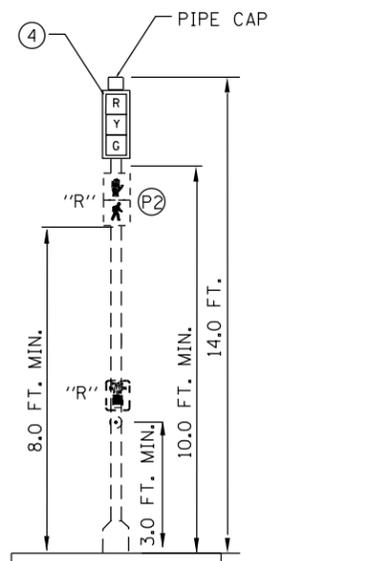
"R" INDICATES RELOCATED EX. SIGNAL COMPONENT



EASTBOUND TRAFFIC SIGNAL

NORTHEAST CORNER OF US 24 (MCKINLEY ST.) & MCLURE ST.

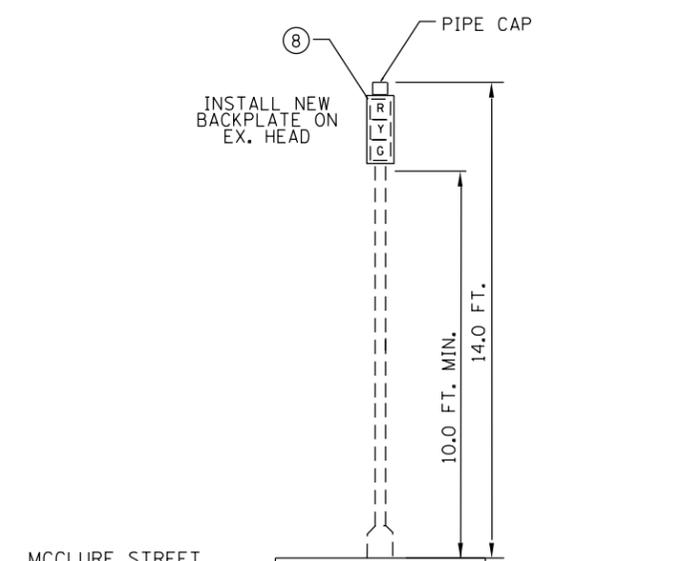
MA-2 16'



EASTBOUND TRAFFIC SIGNAL

NORTHWEST CORNER OF US 24 (MCKINLEY ST.) & MCLURE ST.

TS-1



WESTBOUND TRAFFIC SIGNAL

NORTHWEST CORNER OF US 24 (MCKINLEY ST.) & MCLURE ST.

TS-2

• PEORIA, TAZEWELL, WOODFORD

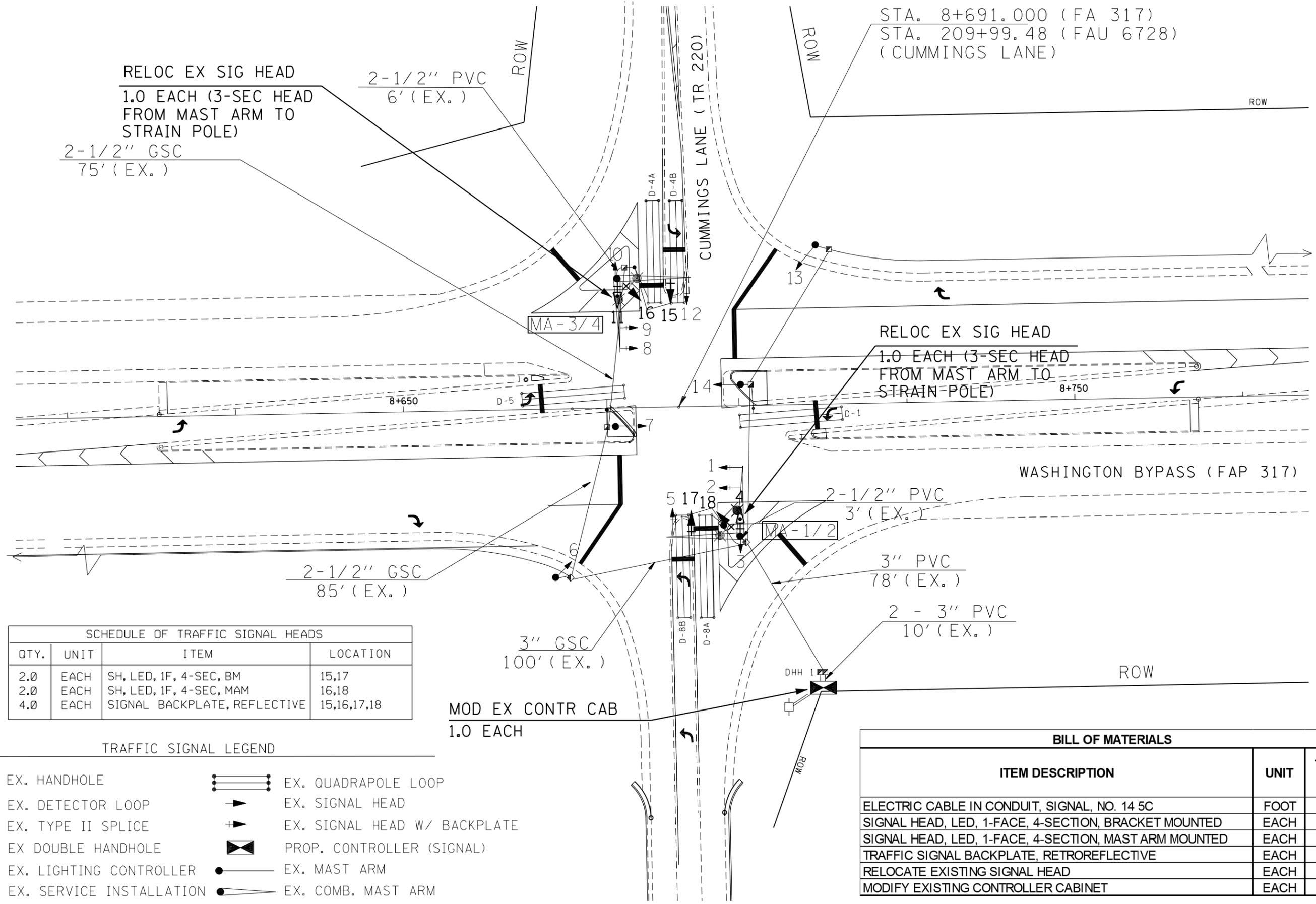
FILE NAME =	USER NAME = keathbr	DESIGNED -	REVISED -
68D43 - Misc. Electrical Project (Final Plans 4-7-17).dgn		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MAST ARM LOADING DETAIL
US 24 (MCKINLEY) & MCLURE - BARTONVILLE**

SCALE: STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D4 TRAFFIC SIGNALS 2017		28	9
			CONTRACT NO. 68D43	
ILLINOIS FED. AID PROJECT				



RELOC EX SIG HEAD
1.0 EACH (3-SEC HEAD
FROM MAST ARM TO
STRAIN POLE)
2-1/2" GSC
75' (EX.)

2-1/2" PVC
6' (EX.)

STA. 8+691.000 (FA 317)
STA. 209+99.48 (FAU 6728)
(CUMMINGS LANE)

RELOC EX SIG HEAD
1.0 EACH (3-SEC HEAD
FROM MAST ARM TO
STRAIN POLE)

2-1/2" GSC
85' (EX.)

2-1/2" PVC
3' (EX.)

3" PVC
78' (EX.)

2 - 3" PVC
10' (EX.)

3" GSC
100' (EX.)

MOD EX CONTR CAB
1.0 EACH

SCHEDULE OF TRAFFIC SIGNAL HEADS			
QTY.	UNIT	ITEM	LOCATION
2.0	EACH	SH, LED, 1F, 4-SEC, BM	15,17
2.0	EACH	SH, LED, 1F, 4-SEC, MAM	16,18
4.0	EACH	SIGNAL BACKPLATE, REFLECTIVE	15,16,17,18

TRAFFIC SIGNAL LEGEND

- EX. HANDHOLE
- EX. DETECTOR LOOP
- EX. TYPE II SPLICE
- EX DOUBLE HANDHOLE
- EX. LIGHTING CONTROLLER
- EX. SERVICE INSTALLATION
- EX. QUADRAPOLE LOOP
- EX. SIGNAL HEAD
- EX. SIGNAL HEAD W/ BACKPLATE
- PROP. CONTROLLER (SIGNAL)
- EX. MAST ARM
- EX. COMB. MAST ARM

BILL OF MATERIALS		
ITEM DESCRIPTION	UNIT	TOTAL QTY.
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 5C	FOOT	1087
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	2
TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	4
RELOCATE EXISTING SIGNAL HEAD	EACH	2
MODIFY EXISTING CONTROLLER CABINET	EACH	1

FILE NAME = 68D43 - Misc. Electrical Project (Final Plans 4-7-17).dgn	USER NAME = keathbr	DESIGNED -	REVISED -
PLOT SCALE = 38.0588' / in.	CHECKED -	DATE -	REVISED -
PLOT DATE = 4/7/2017	DATE -	REVISED -	REVISED -

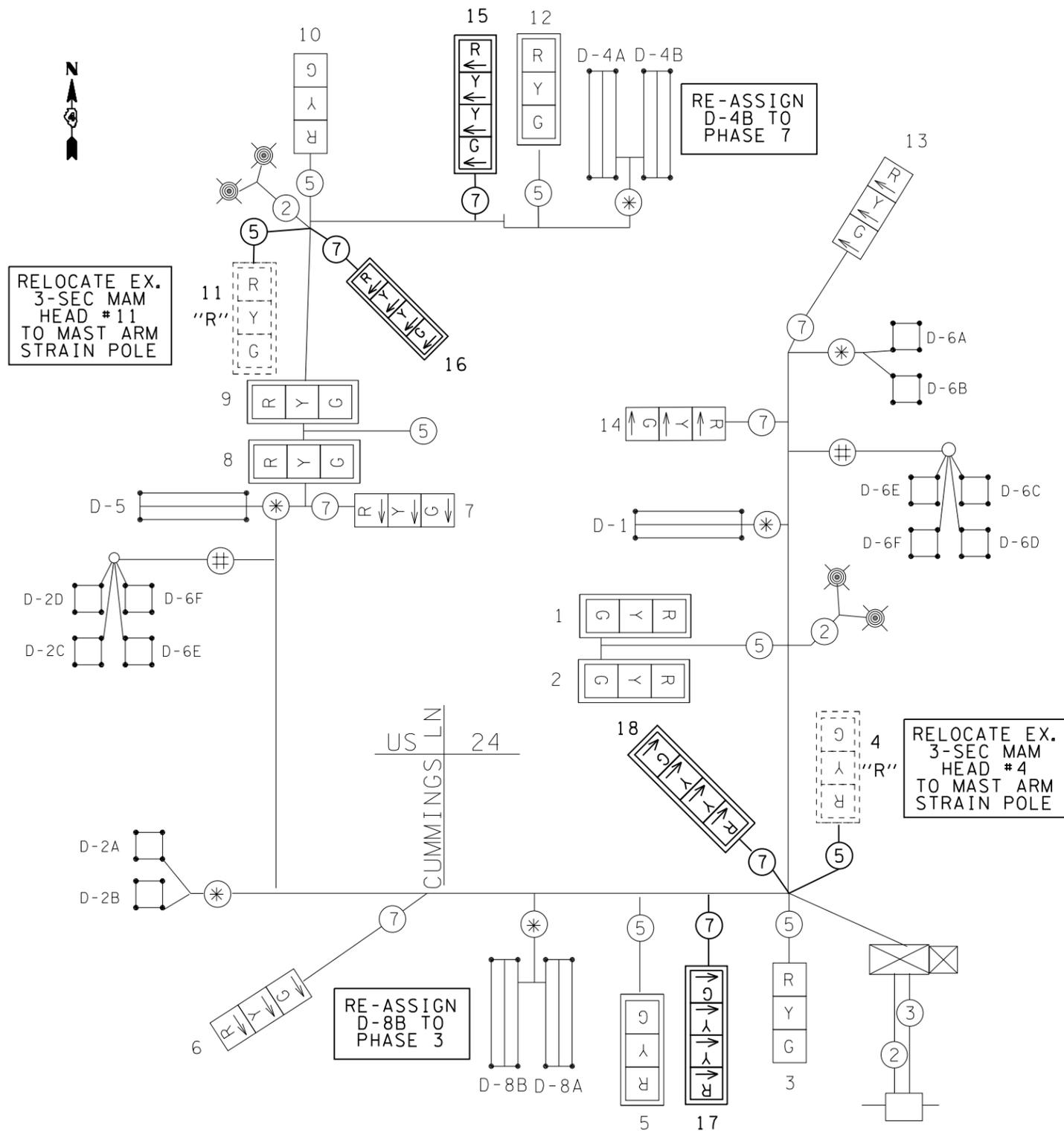
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED TRAFFIC SIGNALS
US 24 (BOYD PARKWAY) & CUMMINGS LANE - WASHINGTON

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D4 TRAFFIC SIGNALS 2017		28	10
CONTRACT NO. 68D43				

• PEORIA, TAZEWELL, WOODFORD

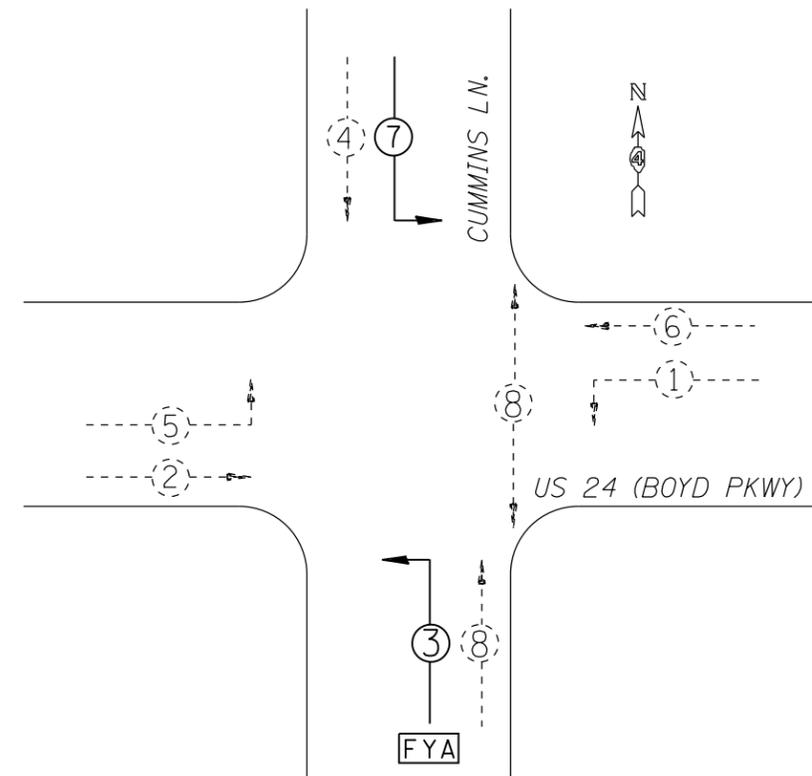
ILLINOIS FED. AID PROJECT



EXISTING AND PROPOSED PHASE DIAGRAM

NAME OF INTERSECTION US 24 (BOYD PKWY) & CUMMINS LN.

EXISTING CONTROLLER: NAZTEC 981 WITH D-CS MODULE
 TS-2 TYPE 1 IN TYPE IV CABINET, 16 POSITION TS-2 BACKPANEL



TRAFFIC SIGNALS LEGEND

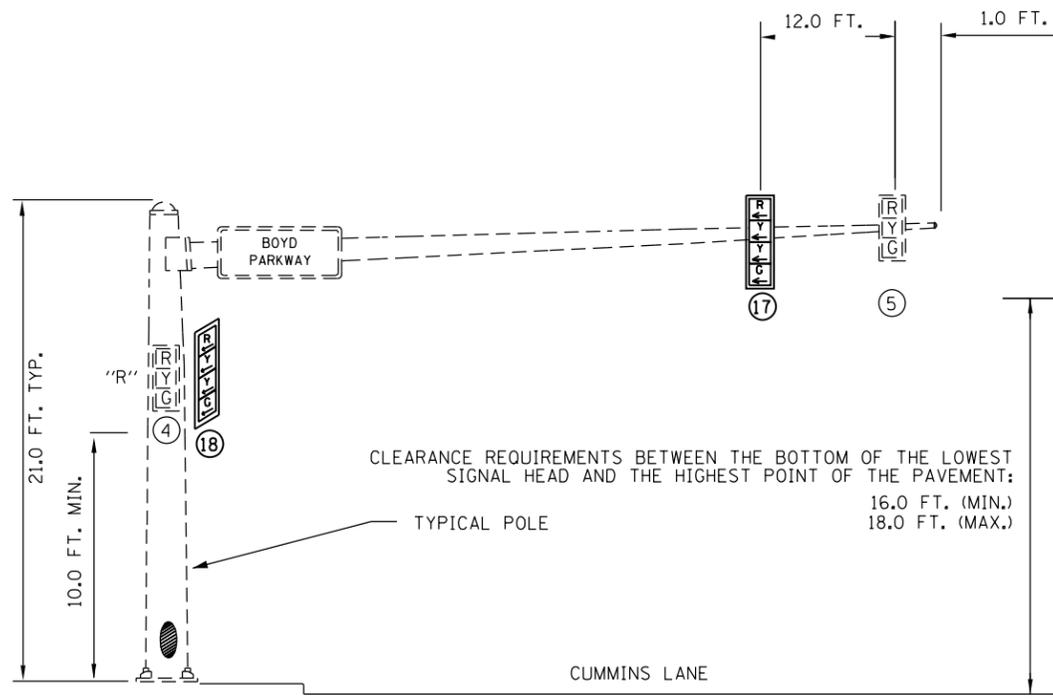
- EX. SIGNAL HEAD W/BACKPLATE EX. CONTROLLER (SIGNAL)
- EX. SIGNAL HEAD (RELOCATED) EX. TYPE II SPLICE
- EX. 3 PAIR NO. 18 TW/SH CABLE EX. #12 2/C TW/SH LEAD-IN CABLE
- "R" EX. SIGNAL COMPONENT TO BE RELOCATED
- PROP. SIGNAL HEAD W/BACKPLATE
- PROP. 5/C NO. 14 SIGNAL CABLE
- PROP. 7/C NO. 14 SIGNAL CABLE

• PEORIA, TAZEWELL, WOODFORD

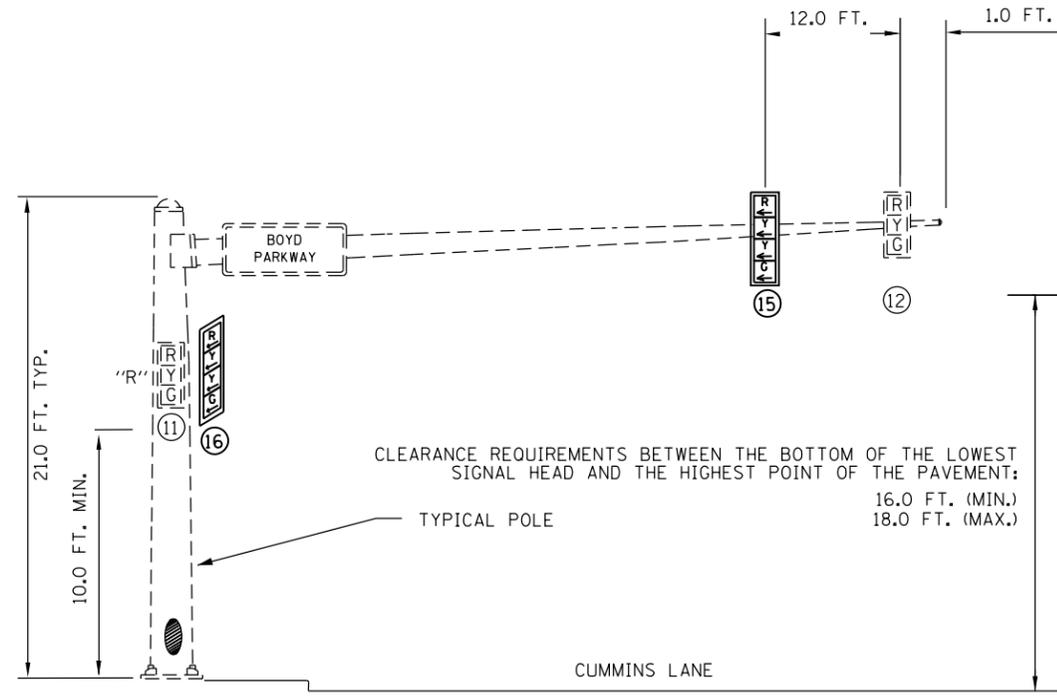
FILE NAME = 68D43 - Misc. Electrical Project (Final Plans 4-7-17).dgn	USER NAME = keathbr	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING AND PROPOSED CABLE AND PHASE DIAGRAMS US 24 (BOYD PARKWAY) & CUMMINS LANE - WASHINGTON	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE = 38.0588' / in.	CHECKED -	REVISIED -	VAR.			D4 TRAFFIC SIGNALS 2017	•	28	11	
PLOT DATE = 4/7/2017	DATE -	REVISIED -	CONTRACT NO. 68D43			ILLINOIS FED. AID PROJECT				

THE CONTRACTOR SHALL ADJUST THE EXISTING SIGNAL HEADS AS NEEDED TO MAINTAIN VERTICAL CLEARANCE REQUIREMENTS. THE COST OF THIS WORK SHALL BE INCLUDED IN THE COST OF THE PROPOSED TRAFFIC SIGNAL HEADS.

"R" INDICATES RELOCATED EX. SIGNAL COMPONENT



MA-1/2
SOUTHBOUND TRAFFIC SIGNAL
SOUTHEAST CORNER OF US 24 (BOYD PARKWAY) & CUMMINS LANE



MA-3/4
NORTHBOUND TRAFFIC SIGNAL
NORTHWEST CORNER OF US 24 (BOYD PARKWAY) & CUMMINS LANE

• PEORIA, TAZEWELL, WOODFORD

FILE NAME =	USER NAME = keathbr	DESIGNED -	REVISED -
68D43 - Misc. Electrical Project (Final Plans 4-7-17).dgn		DRAWN -	REVISED -
	PLOT SCALE = 38.0588' / in.	CHECKED -	REVISED -
	PLOT DATE = 4/7/2017	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAST ARM LOADING DETAIL
US 24 (BOYD PARKWAY) & CUMMINS LANE - WASHINGTON

SCALE: _____ STA. _____ TO STA. _____

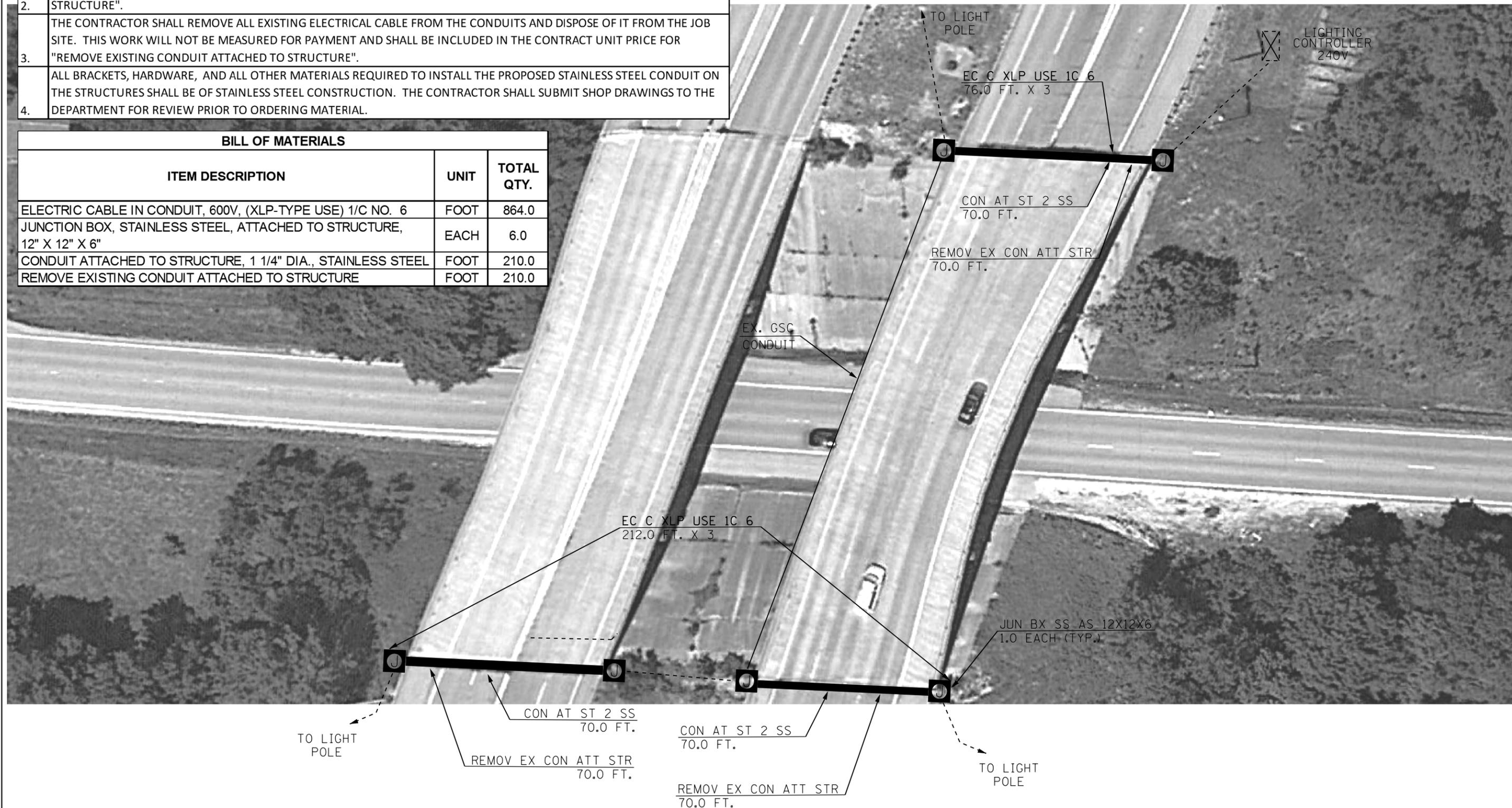
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D4 TRAFFIC SIGNALS 2017		28	12
			CONTRACT NO. 68D43	
ILLINOIS FED. AID PROJECT				

OVERHEAD LIGHTING NOTES

1. THE EXISTING LIGHTING SYSTEM SHALL REMAIN OPERATIONAL DURING CONSTRUCTION. THIS WORK SHALL BE INCLUDED IN THE COST OF THE PROPOSED WIRING.
2. THE CONTRACTOR SHALL REMOVE ALL UNUSED GALVANIZED STEEL CONDUIT, NON-METALLIC SEAL TIGHT, BRACKETS, AND HARDWARE FROM THE STRUCTURES AND DISPOSE OF THESE ITEMS FROM THE JOB SITE. THIS WORK WILL NOT BE MEASURED FOR PAYMENT AND SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR "REMOVE EXISTING CONDUIT ATTACHED TO STRUCTURE".
3. THE CONTRACTOR SHALL REMOVE ALL EXISTING ELECTRICAL CABLE FROM THE CONDUITS AND DISPOSE OF IT FROM THE JOB SITE. THIS WORK WILL NOT BE MEASURED FOR PAYMENT AND SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR "REMOVE EXISTING CONDUIT ATTACHED TO STRUCTURE".
4. ALL BRACKETS, HARDWARE, AND ALL OTHER MATERIALS REQUIRED TO INSTALL THE PROPOSED STAINLESS STEEL CONDUIT ON THE STRUCTURES SHALL BE OF STAINLESS STEEL CONSTRUCTION. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE DEPARTMENT FOR REVIEW PRIOR TO ORDERING MATERIAL.

BILL OF MATERIALS

ITEM DESCRIPTION	UNIT	TOTAL QTY.
ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE) 1/C NO. 6	FOOT	864.0
JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12" X 12" X 6"	EACH	6.0
CONDUIT ATTACHED TO STRUCTURE, 1 1/4" DIA., STAINLESS STEEL	FOOT	210.0
REMOVE EXISTING CONDUIT ATTACHED TO STRUCTURE	FOOT	210.0



NOT TO SCALE

• PEORIA, TAZEWELL, WOODFORD

FILE NAME = 68D43 - Misc. Electrical Project (Final Plans 4-7-17).dgn	USER NAME = keithbr	DESIGNED -	REVISED -
PLOT SCALE = 38.0568' / in.	CHECKED -	REVISIED -	REVISIED -
PLOT DATE = 4/7/2017	DATE -	REVISIED -	REVISIED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHTING CONDUIT REPAIR
I-474 OVER IL 8 EASTBOUND AND WESTBOUND STRUCTURES

SCALE: STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D4 TRAFFIC SIGNALS 2017		28	13
			CONTRACT NO. 68D43	
ILLINOIS FED. AID PROJECT				

PEORIA COUNTY	% OF MAINTENANCE RESPONSIBILITY			REMOVE GROUT FROM EXISTING MAST ARM		INSTALL SCREEN ON EXISTING MAST ARM	
	DEPARTMENT	LOCAL AGENCY	FUND CODE STATE / CITY	QTY.	LOCATIONS	QTY.	LOCATIONS
PEORIA							
US 24 (ADAMS) & GRISWOLD	67	33	67 / 33	2	EB, WB	2	EB, WB
US 24 (ADAMS) & KRAUSE	50	50	50 / 50	2	EB, WB	2	EB, WB
US 24 (ADAMS) & LIGONIER / NEVADA	50	50	50 / 50	2	EB, WB	2	EB, WB
US 24 (WASHINGTON) & CASS	50	50	50 / 50			1	SB
US 24 (WASHINGTON) & EDMUND	50	50	50 / 50			1	SB
US 24 (WASHINGTON) & HAMILTON	25	75	25 / 75	4	NB, SB, EB, WB	4	NB, SB, EB, WB
IL 29 (WASHINGTON) & I-74 RAMP G1 / EATON	100	0	100 / 0			1	SB
IL 29 (WASHINGTON) & IL 8 (MACARTHUR)	75	25	75 / 25	2	NB, SB	2	NB, SB
IL 29 (ADAMS) & ALEXANDER	50	50	50 / 50			2	EB, WB
IL 29 (ADAMS) & US 24 (JEFFERSON)	100	0	100 / 0	1	WB	1	WB
IL 29 (ADAMS) & SLOAN	50	50	50 / 50			1	EB
IL 29 (ADAMS) & SPRING	50	50	50 / 50	2	EB, WB	2	EB, WB
IL 29 (JEFFERSON) & ABINGTON (FOGELBURG)	50	50	50 / 50	3	NB, SB, WB	3	NB, SB, WB
IL 29 (JEFFERSON) & BRYAN	50	50	50 / 50	2	NB, SB	2	NB, SB
IL 29 (JEFFERSON) & SPRING	50	50	50 / 50	3	NB, SB, WB	3	NB, SB, WB
US 150 (WAR MEMORIAL) & BRANDYWINE / MEADOWBROOK	50	50	50 / 50	3	NB, EB, WB	4	NB, SB, EB, WB
US 150 (WAR MEMORIAL) & IL 40 (KNOXVILLE) (WEST LEG)	100	0	100 / 0	1	EB	1	EB
US 150 (WAR MEMORIAL) & GLEN HOLLOW	67	33	67 / 33			3	NB, EB, WB
US 150 (WAR MEMORIAL) & MONROE	50	50	50 / 50	1	NB	4	NB, SB, EB, WB
US 150 (WAR MEMORIAL) & PROSPECT	50	50	50 / 50	1	WB	3	SB, EB, WB
US 150 (WAR MEMORIAL) & SHERIDAN	50	50	50 / 50			3	NB, SB, EB
US 150 (WAR MEMORIAL) & BIG HOLLOW / WILLOW KNOLLS	50	50	50 / 50			4	NB, SB, EB, WB
US 150 (WAR MEMORIAL) & WISCONSIN / BOULEVARD	50	50	50 / 50			3	NB, EB, WB
IL 8 (MACARTHUR) & IL 116 (ADAMS)	75	25	75 / 25	3	NB, SB, EB	3	NB, SB, EB
IL 8 (MACARTHUR) & IL 116 (JEFFERSON)	50	50	50 / 50	3	SB, WB (2)	3	SB, WB (2)
IL 8 (MAIN) & FARMINGTON	67	33	67 / 33	2	EB, WB	2	EB, WB
IL 40 (KNOXVILLE) & DETWEILLER	50	50	50 / 50	2	NB, SB	4	NB, SB, EB, WB
IL 40 (KNOXVILLE) & GILES	50	50	50 / 50			3	NB, SB, WB
IL 40 (KNOXVILLE) & NEBRASKA	50	50	50 / 50			4	NB, SB, EB, WB
IL 40 (KNOXVILLE) & PIONEER PARKWAY	67	33	67 / 33	2	NB, SB	2	NB, SB
IL 40 (KNOXVILLE) & RICHMOND	50	50	50 / 50			2	NB, SB
IL 40 (KNOXVILLE) & THRUSH	50	50	50 / 50			1	SB
IL 8 (LINCOLN) & JEFFERSON	50	50	50 / 50	2	EB, WB	2	EB, WB
IL 116 (LINCOLN) & LARAMIE	50	50	50 / 50			1	EB
IL 40 (KUMPF) & JEFFERSON	50	50	50 / 50	2	NB, SB	2	NB, SB
IL 40 (KUMPF) & JOHN GWYNN	50	50	50 / 50	4	NB, SB, EB, WB	4	
IL 40 (KUMPF) & M. L. KING	50	50	50 / 50	2	SB, EB	2	SB, EB
IL 40 (KUMPF) & ROMEO B GARRETT / FIFTH	50	50	50 / 50	2	NB, EB	2	NB, EB
IL 40 (KUMPF) / GLENDALE & MAIN	50	50	50 / 50			1	WB
I-74 (WB RAMPS) & GALE	100	0	100 / 0			1	WB
IL 8 (WESTERN) & BRADLEY / ROHMAN	50	50	50 / 50	4	NB (2), SB (2)	4	NB (2), SB (2)
IL 8 (WESTERN) & M. L. LING	50	50	50 / 50	4	NB, SB, EB, WB	4	NB, SB, EB, WB
IL 8 (WESTERN) & MOSS	50	50	50 / 50	2	NB, SB	2	NB, SB
TOTALS				63		103	
PEORIA COUNTY							
IL 116 (PLANK) & MAXWELL	100	0	100 / 0			3	NB, SB, WB
FARMINGTON & MAXWELL	100	0	100 / 0	2	EB, WB	2	EB, WB
TOTALS				2		5	

BILL OF MATERIALS		
ITEM DESCRIPTION	UNIT	TOTAL QTY.
REMOVE GROUT FROM EXISTING MAST ARM	EACH	65.0
INSTALL SCREEN ON EXISTING MAST ARM	EACH	108.0

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PLOT SCALE = 38.0588' / in.	CHECKED -	REVISIED -	REVISIED -
PLOT DATE = 4/7/2017	DATE -	REVISIED -	REVISIED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REMOVAL OF GROUT AND INSTALLATION OF SCREEN
ON EXISTING MAST ARMS

SCALE: _____ STA. _____ TO STA. _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D4 TRAFFIC SIGNALS 2017		28	14
CONTRACT NO. 68D43				
ILLINOIS FED. AID PROJECT				

NOT TO SCALE
• PEORIA, TAZEWELL, WOODFORD

CONSTRUCTION NOTES

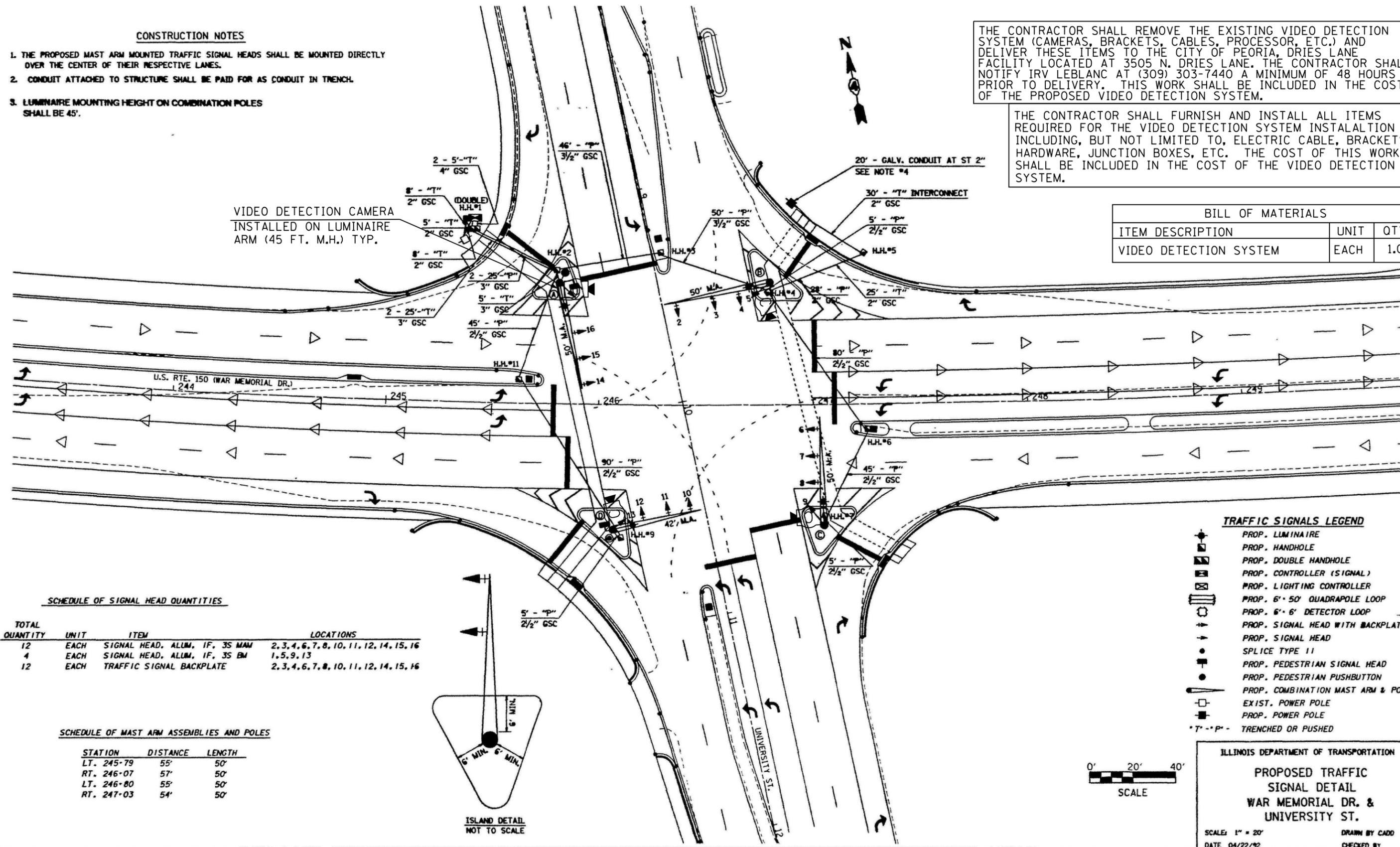
1. THE PROPOSED MAST ARM MOUNTED TRAFFIC SIGNAL HEADS SHALL BE MOUNTED DIRECTLY OVER THE CENTER OF THEIR RESPECTIVE LANES.
2. CONDUIT ATTACHED TO STRUCTURE SHALL BE PAID FOR AS CONDUIT IN TRENCH.
3. LUMINAIRE MOUNTING HEIGHT ON COMBINATION POLES SHALL BE 45'.

THE CONTRACTOR SHALL REMOVE THE EXISTING VIDEO DETECTION SYSTEM (CAMERAS, BRACKETS, CABLES, PROCESSOR, ETC.) AND DELIVER THESE ITEMS TO THE CITY OF PEORIA, DRIES LANE FACILITY LOCATED AT 3505 N. DRIES LANE. THE CONTRACTOR SHALL NOTIFY IRV LEBLANC AT (309) 303-7440 A MINIMUM OF 48 HOURS PRIOR TO DELIVERY. THIS WORK SHALL BE INCLUDED IN THE COST OF THE PROPOSED VIDEO DETECTION SYSTEM.

THE CONTRACTOR SHALL FURNISH AND INSTALL ALL ITEMS REQUIRED FOR THE VIDEO DETECTION SYSTEM INSTALLATION INCLUDING, BUT NOT LIMITED TO, ELECTRIC CABLE, BRACKETS, HARDWARE, JUNCTION BOXES, ETC. THE COST OF THIS WORK SHALL BE INCLUDED IN THE COST OF THE VIDEO DETECTION SYSTEM.

VIDEO DETECTION CAMERA INSTALLED ON LUMINAIRE ARM (45 FT. M.H.) TYP.

BILL OF MATERIALS		
ITEM DESCRIPTION	UNIT	QTY.
VIDEO DETECTION SYSTEM	EACH	1.0

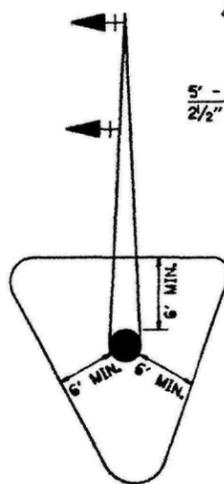


SCHEDULE OF SIGNAL HEAD QUANTITIES

TOTAL QUANTITY	UNIT	ITEM	LOCATIONS
12	EACH	SIGNAL HEAD, ALUM. 1F, 3S MAM	2, 3, 4, 6, 7, 8, 10, 11, 12, 14, 15, 16
4	EACH	SIGNAL HEAD, ALUM. 1F, 3S BM	1, 5, 9, 13
12	EACH	TRAFFIC SIGNAL BACKPLATE	2, 3, 4, 6, 7, 8, 10, 11, 12, 14, 15, 16

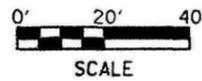
SCHEDULE OF MAST ARM ASSEMBLIES AND POLES

STATION	DISTANCE	LENGTH
LT. 245-79	55'	50'
RT. 246-07	57'	50'
LT. 246-80	55'	50'
RT. 247-03	54'	50'



TRAFFIC SIGNALS LEGEND

- ◻ PROP. LUMINAIRE
- ◻ PROP. HANDHOLE
- ◻ PROP. DOUBLE HANDHOLE
- ◻ PROP. CONTROLLER (SIGNAL)
- ◻ PROP. LIGHTING CONTROLLER
- ◻ PROP. 6' x 50' QUADRAPOLE LOOP
- ◻ PROP. 6' x 6' DETECTOR LOOP
- ◻ PROP. SIGNAL HEAD WITH BACKPLATE
- ◻ PROP. SIGNAL HEAD
- ◻ SPLICE TYPE II
- ◻ PROP. PEDESTRIAN SIGNAL HEAD
- ◻ PROP. PEDESTRIAN PUSHBUTTON
- ◻ PROP. COMBINATION MAST ARM & POLE
- ◻ EXIST. POWER POLE
- ◻ PROP. POWER POLE
- ◻ TRENCHED OR PUSHED

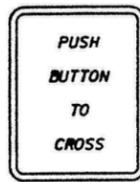


ILLINOIS DEPARTMENT OF TRANSPORTATION
PROPOSED TRAFFIC SIGNAL DETAIL
WAR MEMORIAL DR. & UNIVERSITY ST.
 SCALE: 1" = 20'
 DATE 04/22/92
 DRAWN BY CADD
 CHECKED BY

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
317 117-2-1-3,TS-2	PEORIA	63	33
STA.	TO STA.		

TRAFFIC SIGNALS LAYOUT
REVISE 01-28-02 SK

PEDESTRIAN CROSSING SIGN DETAIL

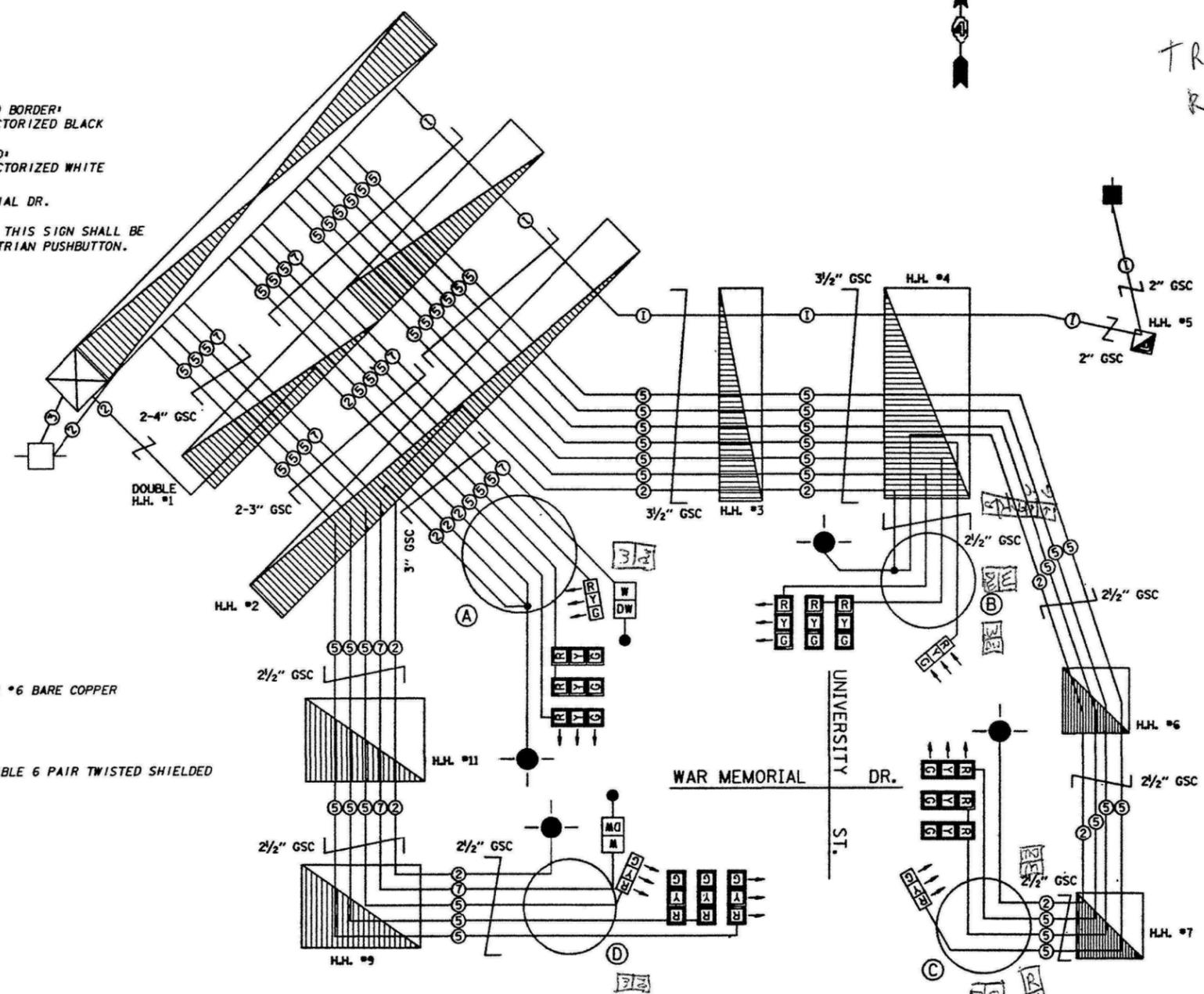


COLOR LEGEND AND BORDER*
NON-REFLECTORIZED BLACK

BACKGROUND*
NON-REFLECTORIZED WHITE

MAKE 2 EACH WITH WAR MEMORIAL DR.

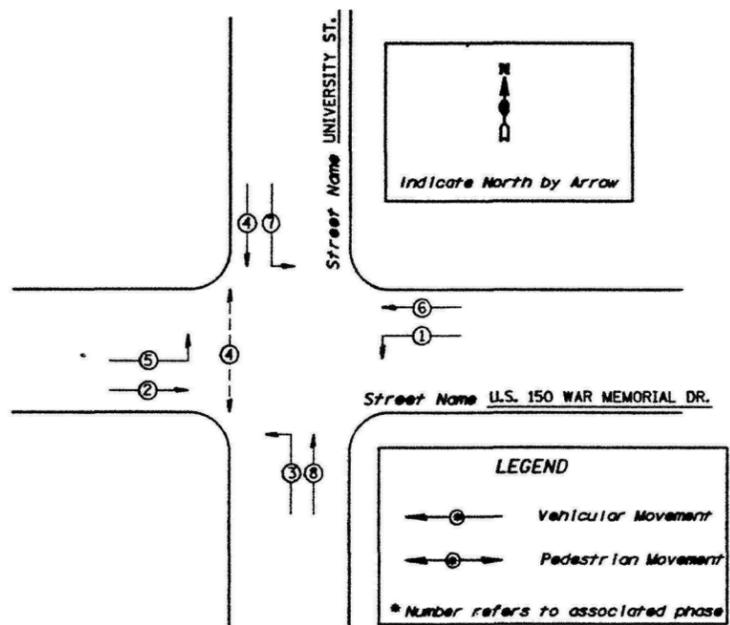
MATERIALS AND INSTALLATION OF THIS SIGN SHALL BE INCLUDED IN THE COST OF PEDESTRIAN PUSHBUTTON.



- ② PROPOSED 2/C *6 WITH 1/C *6 BARE COPPER
- ③ PROPOSED 3/C *6
- ⑤ PROPOSED 5/C *14
- ⑦ PROPOSED 7/C *14
- ① PROPOSED INTERCONNECT CABLE 6 PAIR TWISTED SHIELDED

Name of Intersection U.S. 150 WAR MEMORIAL DRIVE & UNIVERSITY ST.
Controller Specified FULL-ACTUATED CONTROLLER, STANDARD SEQUENCE

Referring to Standard 2393, the vehicular and pedestrian phases used are designated below:



PHASE DESIGNATION DIAGRAM

TRAFFIC SIGNAL LEGEND

- PROPOSED HANDHOLE
- ▣ PROPOSED DOUBLE HANDHOLE
- ▢ PROPOSED CONTROLLER (SIGNAL)
- PROPOSED TYPE II SPLICE
- ⊠ PROPOSED LIGHTING CONTROLLER
- ⊙ PROPOSED LUMINAIRE
- EXISTING SERVICE POLE
- ⊕ PROPOSED POWER POLE
- ⊙ PROPOSED SIGNAL HEAD
- ⊙ PROPOSED SIGNAL HEAD WITH BACKPLATE

CABLE NOTES

1. ALL TRAFFIC SIGNAL SECTIONS SHALL BE 12". ALL PROPOSED SIGNAL SECTIONS SHALL HAVE GLASS LENSES.
2. THE RED SECTIONS OF THE SIGNAL HEADS SHARING THE SAME MASTARM SHALL BE LEVEL WITH ONE ANOTHER.

FOR INFORMATION ONLY

ILLINOIS DEPARTMENT OF TRANSPORTATION
PROPOSED CABLE DIAGRAM
WAR MEMORIAL DR. & UNIVERSITY ST.

SCALE: NOT TO SCALE DRAWN BY CADD
DATE 04/21/92 CHECKED BY

FILE NAME = 68D43 - Misc. Electrical Project (Final Plans 4-7-17).dgn	USER NAME = keathbr	DESIGNED -	REVISIONS -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED VEHICLE VIDEO DETECTION SYSTEM US 150 (WAR MEMORIAL DRIVE) & UNIVERSITY STREET - PEORIA	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
PLOT SCALE = 38.0568' / in.	PLOT DATE = 4/7/2017	DRAWN -	REVISIONS -			VAR.	D4 TRAFFIC SIGNALS 2017			28	17
		CHECKED -	REVISIONS -			SCALE:	STA.	TO STA.	CONTRACT NO. 68D43		
		DATE -	REVISIONS -			ILLINOIS FED. AID PROJECT					

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(72-71R-3)	PEORIA	1360	337
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

TRAFFIC SIGNAL LEGEND

	PROPOSED	EXISTING
CONTROLLER		
SERVICE INSTALLATION		
SIGNAL HEAD		
SIGNAL HEAD WITH BACKPLATE		
SIGNAL HEAD, PEDESTRIAN		
SIGNAL POST		
COMBINATION MAST ARM ASSEMBLY AND POLE, STEEL		
HANDHOLE		
DOUBLE HANDHOLE		
PVC CONDUIT IN TRENCH OR PUSHED		
PEDESTRIAN PUSHBUTTON DETECTOR		
VIDEO CAMERA ASSEMBLY		
400 WATT, HPS, MC-III LUMINAIRE		

VIDEO DETECTION CAMERA
INSTALLED ON LUMINAIRE
ARM (45 FT. M.H.) TYP.

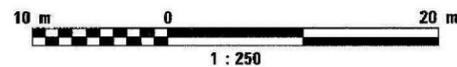
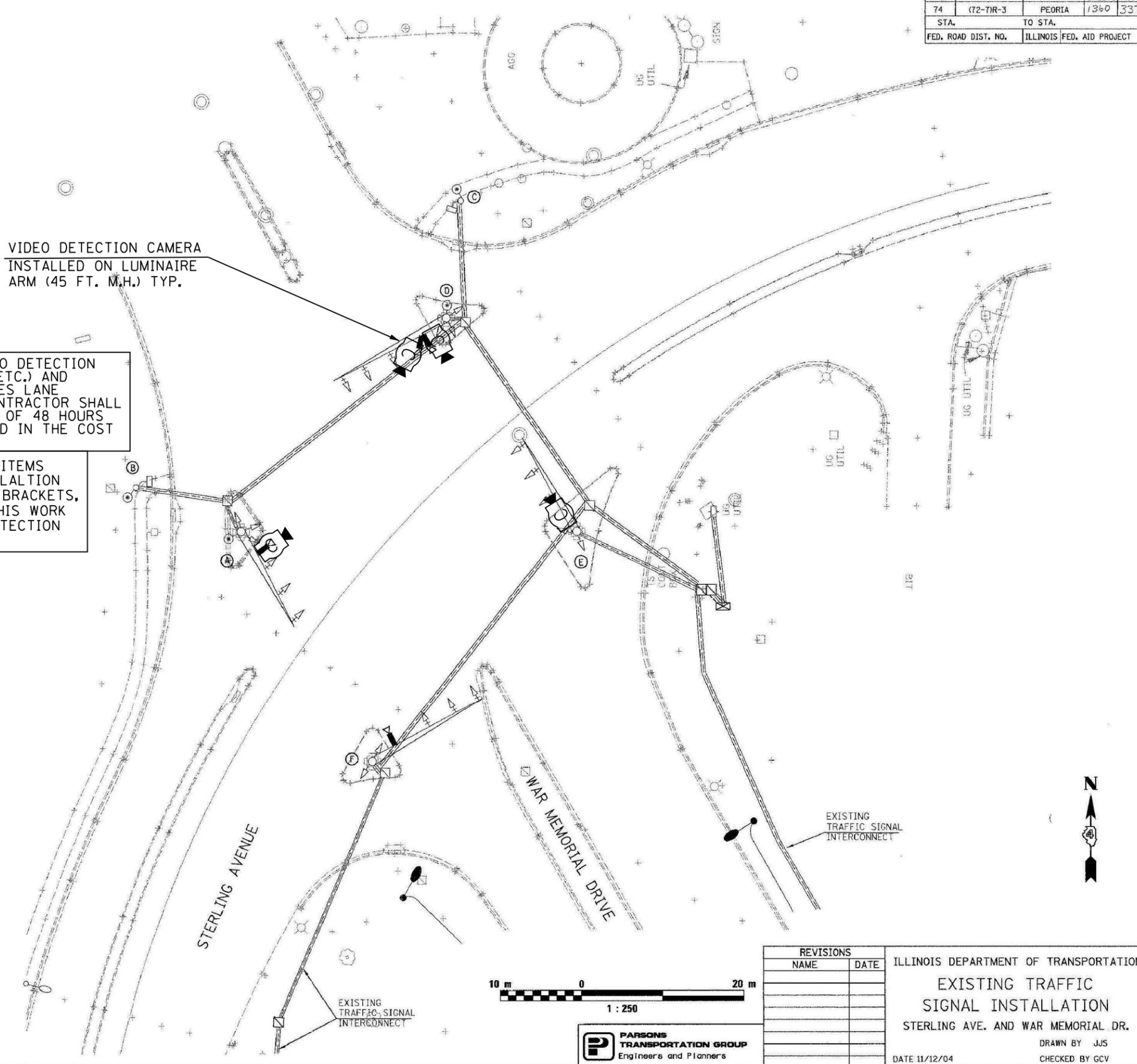
THE CONTRACTOR SHALL REMOVE THE EXISTING VIDEO DETECTION SYSTEM (CAMERAS, BRACKETS, CABLES, PROCESSOR, ETC.) AND DELIVER THESE ITEMS TO THE CITY OF PEORIA, DRIES LANE FACILITY LOCATED AT 3505 N. DRIES LANE. THE CONTRACTOR SHALL NOTIFY IRV LEBLANC AT (309) 303-7440 A MINIMUM OF 48 HOURS PRIOR TO DELIVERY. THIS WORK SHALL BE INCLUDED IN THE COST OF THE PROPOSED VIDEO DETECTION SYSTEM.

THE CONTRACTOR SHALL FURNISH AND INSTALL ALL ITEMS REQUIRED FOR THE VIDEO DETECTION SYSTEM INSTALATION INCLUDING, BUT NOT LIMITED TO, ELECTRIC CABLE, BRACKETS, HARDWARE, JUNCTION BOXES, ETC. THE COST OF THIS WORK SHALL BE INCLUDED IN THE COST OF THE VIDEO DETECTION SYSTEM.

BILL OF MATERIALS		
ITEM DESCRIPTION	UNIT	QTY.
VIDEO DETECTION SYSTEM	EACH	1.0

~~SCHEDULE OF SIGNAL HEAD
LED RETROFIT QUANTITIES~~

TOTAL QUANTITY	UNIT	ITEM
14	EACH	RED BALL
14	EACH	GREEN BALL
2	EACH	WALK/DON'T WALK
14	EACH	YELLOW BALL
8	EACH	YELLOW ARROW
14	EACH	GREEN ARROW
8	EACH	RED ARROW



PARSONS
TRANSPORTATION GROUP
Engineers and Planners

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
**EXISTING TRAFFIC
SIGNAL INSTALLATION**
STERLING AVE. AND WAR MEMORIAL DR.
DRAWN BY JJS
CHECKED BY GCV
DATE 11/12/04
PEORIA, TAZEWELL, WOODFORD

FILE NAME = 68D43 - Misc. Electrical Project (Final Plans 4-7-17).dgn	USER NAME = keathbr	DESIGNED -	REVISED -
PLOT SCALE = 38.0588' / in.		DRAWN -	REVISED -
PLOT DATE = 4/7/2017		CHECKED -	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

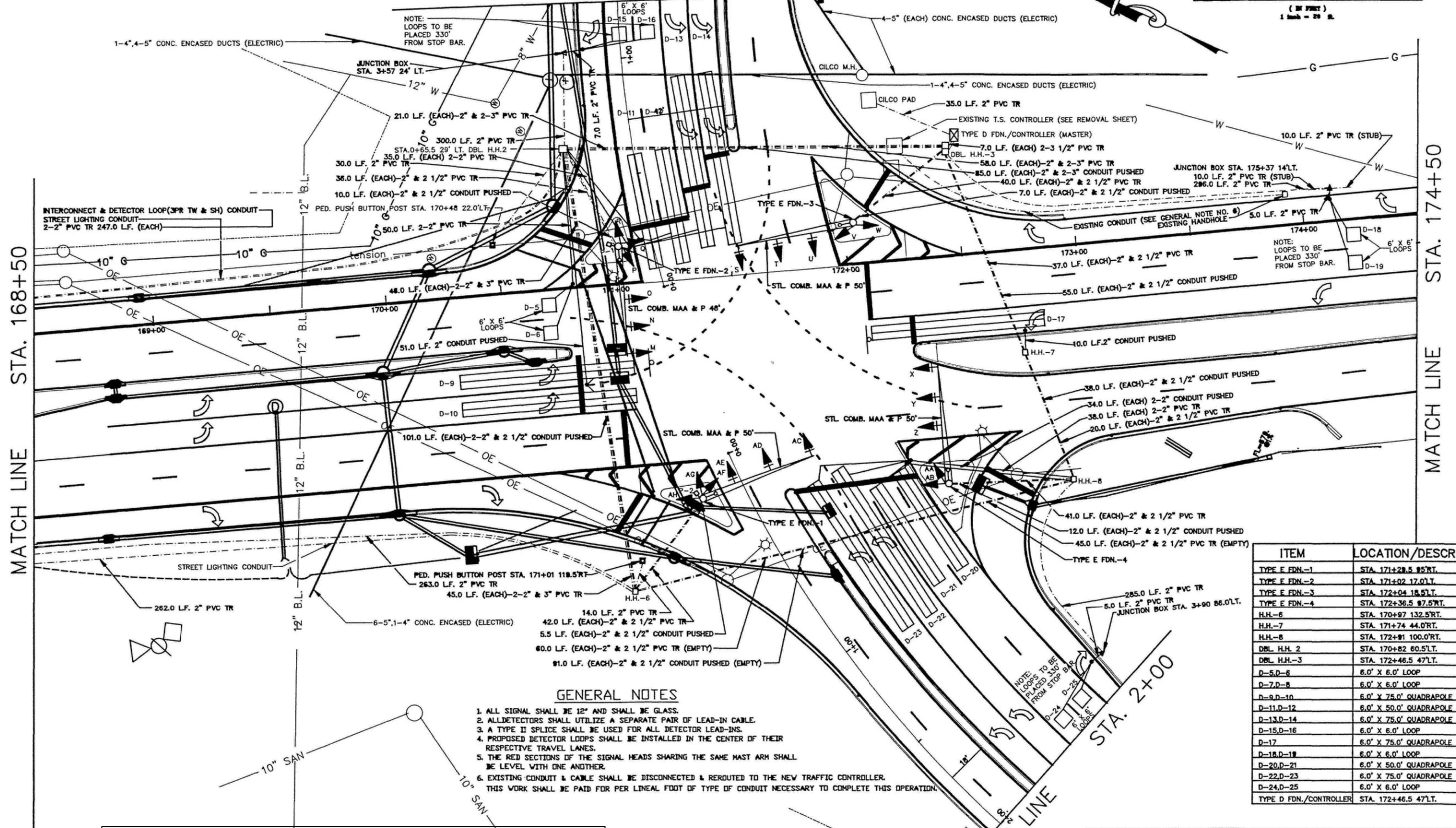
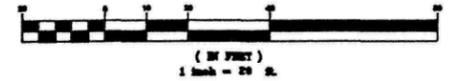
**PROPOSED VEHICLE VIDEO DETECTION SYSTEM
US 150 (WAR MEMORIAL DRIVE) & ALLEN RD /CHARTER OAK - PEORIA**
SCALE: STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D4 TRAFFIC SIGNALS 2017		28	18
			CONTRACT NO. 68D43	
ILLINOIS FED. AID PROJECT				

NOTE: SEE REMOVAL SHEET FOR REMOVAL ITEMS.

MATCH LINE STA. 1+25

GRAPHIC SCALE



- GENERAL NOTES**
1. ALL SIGNAL SHALL BE 12" AND SHALL BE GLASS.
 2. ALLEDTECTORS SHALL UTILIZE A SEPARATE PAIR OF LEAD-IN CABLE.
 3. A TYPE II SPLICE SHALL BE USED FOR ALL DETECTOR LEAD-INS.
 4. PROPOSED DETECTOR LOOPS SHALL BE INSTALLED IN THE CENTER OF THEIR RESPECTIVE TRAVEL LANES.
 5. THE RED SECTIONS OF THE SIGNAL HEADS SHARING THE SAME MAST ARM SHALL BE LEVEL WITH ONE ANOTHER.
 6. EXISTING CONDUIT & CABLE SHALL BE DISCONNECTED & REROUTED TO THE NEW TRAFFIC CONTROLLER. THIS WORK SHALL BE PAID FOR PER LINEAL FOOT OF TYPE OF CONDUIT NECESSARY TO COMPLETE THIS OPERATION.

ITEM	LOCATION/DESCRIPTION
TYPE E FDN.-1	STA. 171+28.5 95'RT.
TYPE E FDN.-2	STA. 171+02 17.0'LT.
TYPE E FDN.-3	STA. 172+04 18.5'LT.
TYPE E FDN.-4	STA. 172+36.5 87.5'RT.
H.H.-6	STA. 170+97 132.5'RT.
H.H.-7	STA. 171+74 44.0'RT.
H.H.-8	STA. 172+81 100.0'RT.
DBL H.H. 2	STA. 170+82 60.5'LT.
DBL H.H.-3	STA. 172+46.5 47'LT.
D-5,D-6	6.0' X 6.0' LOOP
D-7,D-8	6.0' X 6.0' LOOP
D-9,D-10	6.0' X 75.0' QUADRAPOLE LOOP
D-11,D-12	6.0' X 50.0' QUADRAPOLE LOOP
D-13,D-14	6.0' X 75.0' QUADRAPOLE LOOP
D-15,D-16	6.0' X 6.0' LOOP
D-17	6.0' X 75.0' QUADRAPOLE LOOP
D-18,D-19	6.0' X 6.0' LOOP
D-20,D-21	6.0' X 50.0' QUADRAPOLE LOOP
D-22,D-23	6.0' X 75.0' QUADRAPOLE LOOP
D-24,D-25	6.0' X 6.0' LOOP
TYPE D FDN./CONTROLLER	STA. 172+46.5 47'LT.

FOR INFORMATION ONLY

CONTACT J.U.L.I.E. @ 1-800-892-0123 BEFORE DIGGING.

CITY OF PEORIA
 PUBLIC WORKS DEPT. - ENGINEERING DIV.
 WAR MEMORIAL DR. WIDENING (SHERWOOD PL. TO SCENIC DR.)
 TRAFFIC SIGNAL - PLAN SHEET

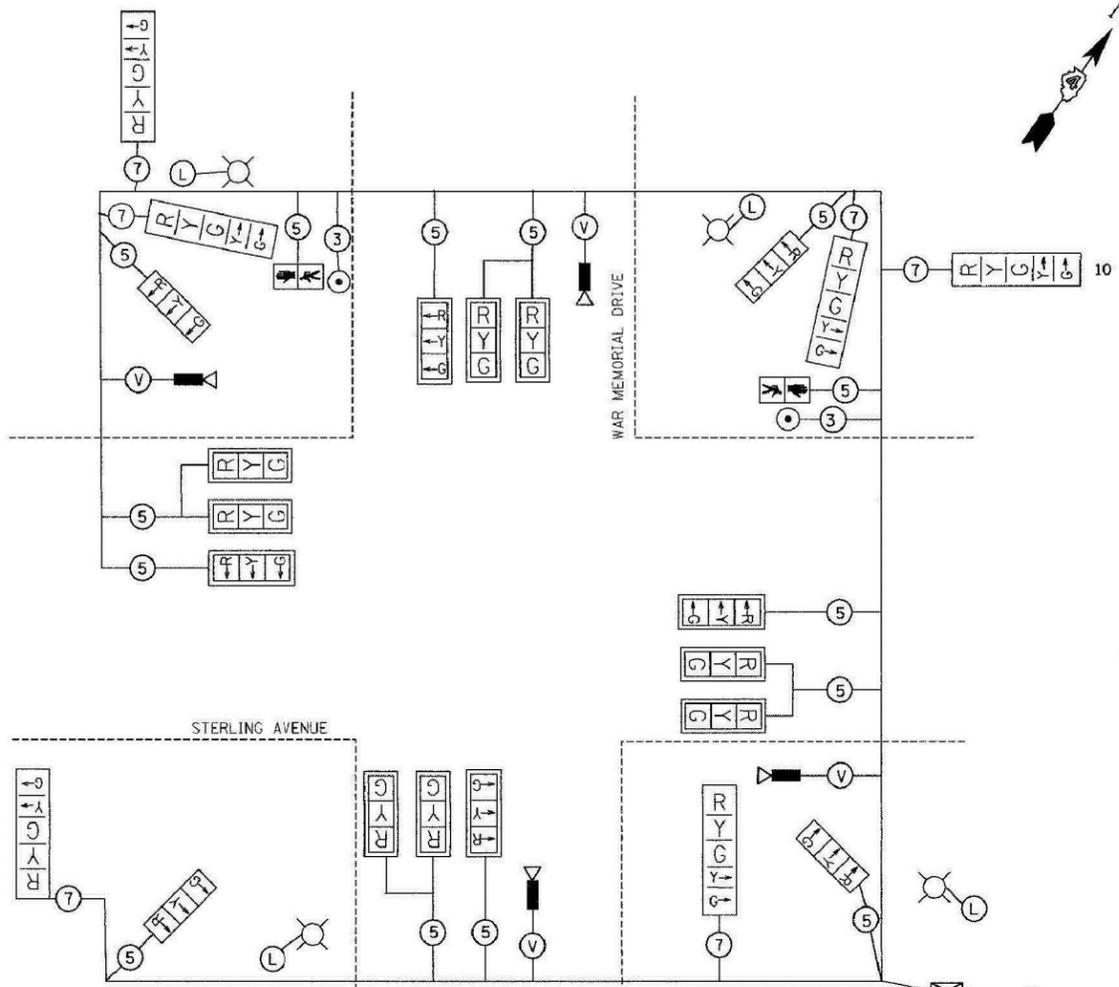
NOTES:
 PLOTTING SCALE: 1"=20'
 SURVEY BY: ZUMWALT & ASSOC. CHECKED BY: ARB
 DRAWN BY: MJT DATE: JUNE 1994
 CADD DWG FILE: (DCA)F:\WARM\WARGLENT.DWG CITY PROJECT NO: 401-193018 SHEET 30 OF 43 P.M. 897

FILE NAME = 68D43 - Misc. Electrical Project (Final Plans 4-7-17).dgn	USER NAME = keathbr	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED VEHICLE VIDEO DETECTION SYSTEM US 150 (WAR MEMORIAL DRIVE) & ALLEN RD /CHARTER OAK - PEORIA	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
PLOT SCALE = 38.0588 1/ in.	CHECKED -	REVISED -	VAR.			D4 TRAFFIC SIGNALS 2017			28	19	
PLOT DATE = 4/7/2017	DATE -	REVISED -									CONTRACT NO. 68D43
						SCALE:	STA.	TO STA.			ILLINOIS FED. AID PROJECT

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	172-71R-3	PEORIA	1360	338
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

PROPOSED TRAFFIC SIGNALS LEGEND

- ⊙ CABLE CONDUCTORS (ALL CABLES NO. 14, EXCEPT AS INDICATED)
- ←Y LEFT TURN YELLOW
- ←G LEFT TURN GREEN
- ⊙ PED PUSH BUTTON
- ▣ VIDEO DETECTION CAMERA
- ⊠ TRAFFIC CONTROLLER
- EXISTING SERVICE INSTALLATION
- PROPOSED SERVICE INSTALLATION
- ⊠ WALK/DON'T WALK SECTION
- RYG TRAFFIC SIGNAL W/BACKPLATE
- ⊗ EXISTING STREET LIGHTING LUMINAIRE
- Ⓛ LUMINAIRE CABLES (SEE LIGHTING PLANS FOR LIGHTING CABLING)
- Ⓢ SERVICE CABLES (600V XLP-TYPE USE 3-1/C NO.6)

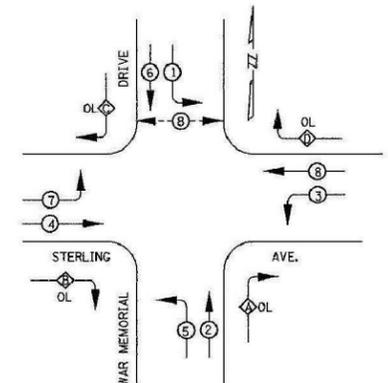


CABLE PLAN

Ⓢ CAMERA CABLE
 6 PAIRS, TWISTED REQUIRED
 3 PAIRS CONDUCTOR FOR POWER - 24VAC(AC+,AC-,GND)
 1 PAIR DATA
 1 PAIR COMPOSITE VIDEO
 1 PAIR DETECTOR DATA
 OVERALL SHIELD
 MINIMUM 16AWG (PAIRS)
 (TO BE INCLUDED IN THE BID PRICE FOR VEHICLE VIDEO DETECTION SYSTEM)

SCHEDULE OF QUANTITIES

DESCRIPTION	UNITS	Quantity	Sterling
LED SIGNAL FACE RETROFIT, RED BALL	EACH	14	
LED SIGNAL FACE RETROFIT, GREEN BALL	EACH	14	
LED SIGNAL FACE RETROFIT, WALK/DON'T WALK SPECIAL	EACH	2	
LED SIGNAL FACE RETROFIT, YELLOW BALL	EACH	14	
LED SIGNAL FACE RETROFIT, YELLOW ARROW	EACH	14	
LED SIGNAL FACE RETROFIT, GREEN ARROW	EACH	14	
LED SIGNAL FACE RETROFIT, RED ARROW	EACH	8	
VIDEO VEHICLE DETECTION SYSTEM (4 CAMERA)	LSUM	1	
BATTERY BACKUP SYSTEM WITH CABINET	LSUM	1	



EXISTING PHASE DESIGNATION DIAGRAM
 PROTECTED ONLY LEFT TURN PHASING
 WITH RIGHT TURN OVERLAPS

- LEGEND
- ⊙ VEHICULAR PHASE
 - ⊠ OVERLAP
 - ⊠ PEDESTRIAN PHASE
 - * NUMBER REFERS TO ASSOCIATED PHASE

FOR INFORMATION ONLY

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 EXISTING CABLE DIAGRAM
 STERLING AVE. AND WAR MEMORIAL DR.
 DRAWN BY JJS
 CHECKED BY GCV
 DATE 11/12/04
 • PEORIA, TAZEWELL, WOODFORD

FILE NAME = 68D43 - Misc. Electrical Project (Final Plans 4-7-17).dgn	DESIGNED -	REVISD -
USER NAME = keathbr	DRAWN -	REVISD -
PLOT SCALE = 38.0588' / in.	CHECKED -	REVISD -
PLOT DATE = 4/7/2017	DATE -	REVISD -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PROPOSED VEHICLE VIDEO DETECTION SYSTEM
 US 150 (WAR MEMORIAL DRIVE) & ALLEN RD /CHARTER OAK - PEORIA

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D4 TRAFFIC SIGNALS 2017		28	20
SCALE:		STA.	TO STA.	
		ILLINOIS FED. AID PROJECT		

CONTRACT NO. 68D43

LEGEND

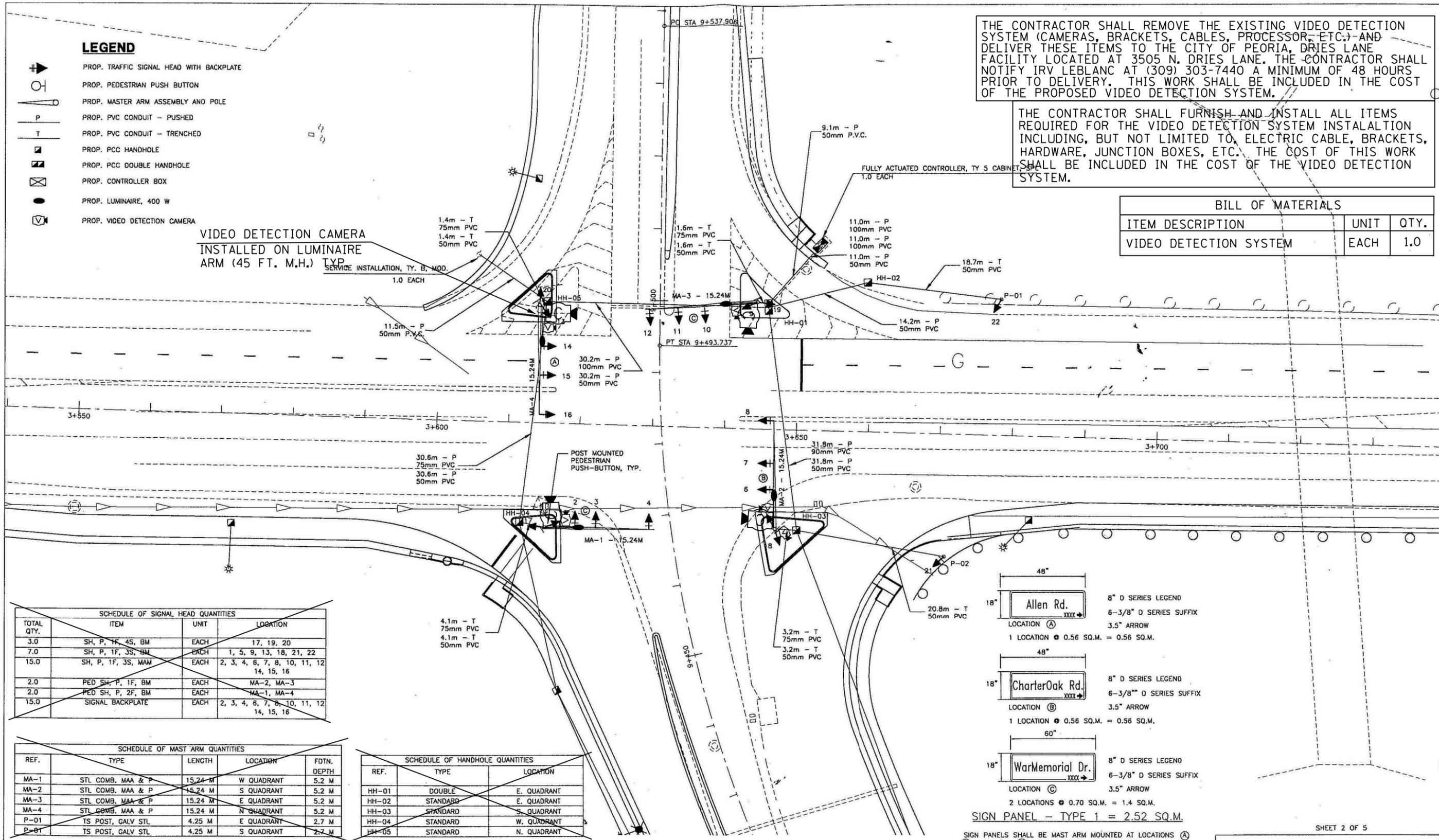
- PROP. TRAFFIC SIGNAL HEAD WITH BACKPLATE
- PROP. PEDESTRIAN PUSH BUTTON
- PROP. MASTER ARM ASSEMBLY AND POLE
- PROP. PVC CONDUIT - PUSHED
- PROP. PVC CONDUIT - TRENCHED
- PROP. PCC HANDHOLE
- PROP. PCC DOUBLE HANDHOLE
- PROP. CONTROLLER BOX
- PROP. LUMINAIRE, 400 W
- PROP. VIDEO DETECTION CAMERA

THE CONTRACTOR SHALL REMOVE THE EXISTING VIDEO DETECTION SYSTEM (CAMERAS, BRACKETS, CABLES, PROCESSOR, ETC.) AND DELIVER THESE ITEMS TO THE CITY OF PEORIA, DRIES LANE FACILITY LOCATED AT 3505 N. DRIES LANE. THE CONTRACTOR SHALL NOTIFY IRV LEBLANC AT (309) 303-7440 A MINIMUM OF 48 HOURS PRIOR TO DELIVERY. THIS WORK SHALL BE INCLUDED IN THE COST OF THE PROPOSED VIDEO DETECTION SYSTEM.

THE CONTRACTOR SHALL FURNISH AND INSTALL ALL ITEMS INCLUDING, BUT NOT LIMITED TO, ELECTRIC CABLE, BRACKETS, HARDWARE, JUNCTION BOXES, ETC. THE COST OF THIS WORK SHALL BE INCLUDED IN THE COST OF THE VIDEO DETECTION SYSTEM.

BILL OF MATERIALS		
ITEM DESCRIPTION	UNIT	QTY.
VIDEO DETECTION SYSTEM	EACH	1.0

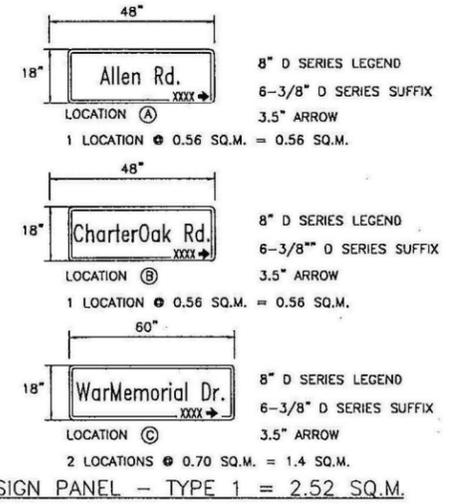
VIDEO DETECTION CAMERA
INSTALLED ON LUMINAIRE
ARM (45 FT. M.H.) TYP



SCHEDULE OF SIGNAL HEAD QUANTITIES			
TOTAL QTY.	ITEM	UNIT	LOCATION
3.0	SH, P, 1F, 4S, BM	EACH	17, 19, 20
7.0	SH, P, 1F, 3S, BM	EACH	1, 5, 9, 13, 18, 21, 22
15.0	SH, P, 1F, 3S, MAM	EACH	2, 3, 4, 6, 7, 8, 10, 11, 12, 14, 15, 16
2.0	PED SH, P, 1F, BM	EACH	MA-2, MA-3
2.0	PED SH, P, 2F, BM	EACH	MA-1, MA-4
15.0	SIGNAL BACKPLATE	EACH	2, 3, 4, 6, 7, 8, 10, 11, 12, 14, 15, 16

SCHEDULE OF MAST ARM QUANTITIES				
REF.	TYPE	LENGTH	LOCATION	FDTN. DEPTH
MA-1	STL COMB. MAA & P	15.24 M	W QUADRANT	5.2 M
MA-2	STL COMB. MAA & P	15.24 M	S QUADRANT	5.2 M
MA-3	STL COMB. MAA & P	15.24 M	E QUADRANT	5.2 M
MA-4	STL COMB. MAA & P	15.24 M	N QUADRANT	5.2 M
P-01	TS POST, GALV STL	4.25 M	E QUADRANT	2.7 M
P-02	TS POST, GALV STL	4.25 M	S QUADRANT	2.7 M

SCHEDULE OF HANDHOLE QUANTITIES		
REF.	TYPE	LOCATION
HH-01	DOUBLE	E. QUADRANT
HH-02	STANDARD	E. QUADRANT
HH-03	STANDARD	S. QUADRANT
HH-04	STANDARD	W. QUADRANT
HH-05	STANDARD	N. QUADRANT



SIGN PANELS SHALL BE MAST ARM MOUNTED AT LOCATIONS (A), (B), AND/OR (C) AS SHOWN ON TRAFFIC SIGNAL PLANS.
THE SUFFIX AND/OR NUMBER IS ONE HALF INCH ABOVE THE BOTTOM OF THE SIGN
THE STREET NAME IS 6" ABOVE THE BOTTOM OF THE SIGN
BORDER IS 1" WIDE
THE SHEETING IS HIGH INTENSITY WITH GREEN OVERLAY FILM

SHEET 2 OF 5

PROP. TRAFFIC SIGNAL DETAILS

CITY OF PEORIA
ENGINEERING DIVISION
419 FULTON ST.
PEORIA, IL 61602

REVISIONS			
NO.	DATE	DESCRIPTION	APPROVED
1	01/03	CITY OF PEORIA TRAFFIC MAINTENANCE COMMENTS	
2	05/03	IDOT TRAFFIC SIGNAL SYSTEMS COMMENTS	

DESIGNED - CWW
DRAWN - CWW
CHECKED - EEA
DATE - 05/02/03

Harding ESE
A MACTEC Company
ILLINOIS PROFESSIONAL DESIGN FIRM
LS/PE/SE, LICENSE #184-001138

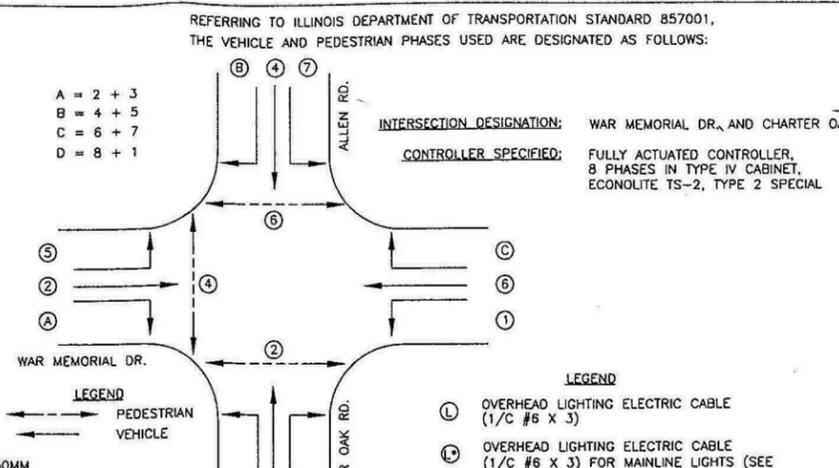
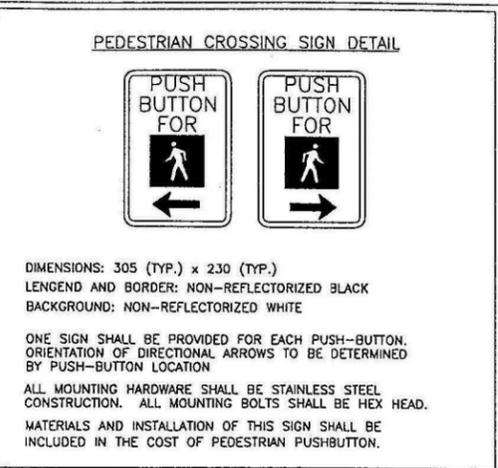
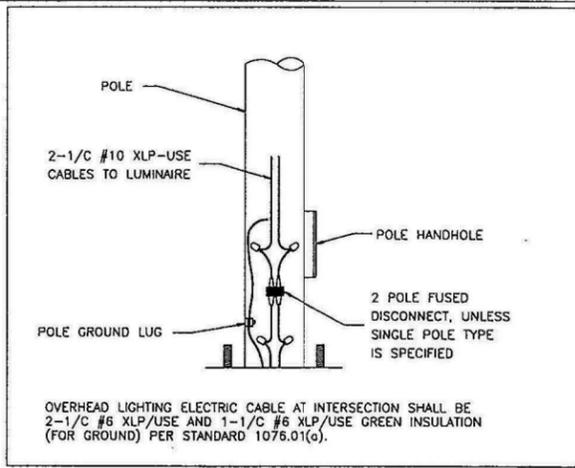
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED VEHICLE VIDEO DETECTION SYSTEM
US 150 (WAR MEMORIAL DRIVE) & GLEN /STERLING - PEORIA

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D4 TRAFFIC SIGNALS 2017		28	21

CONTRACT NO. 68D43
ILLINOIS FED. AID PROJECT

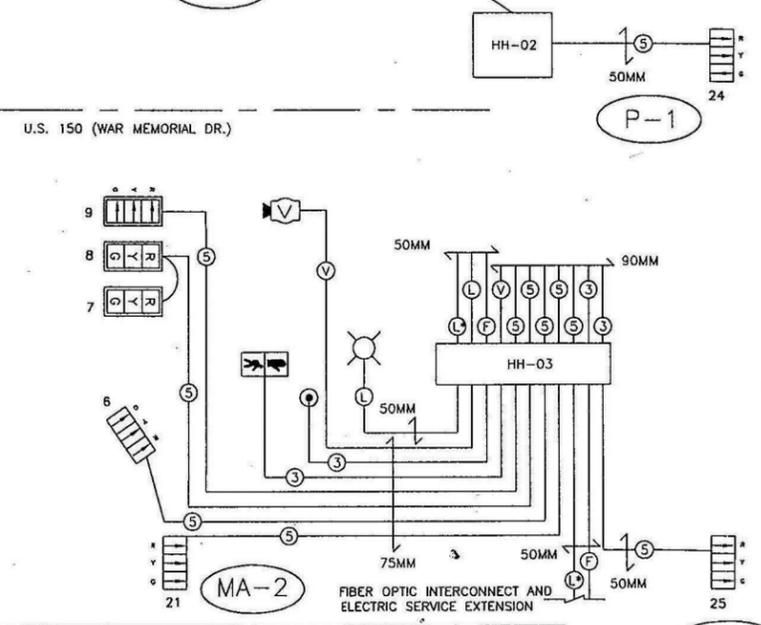
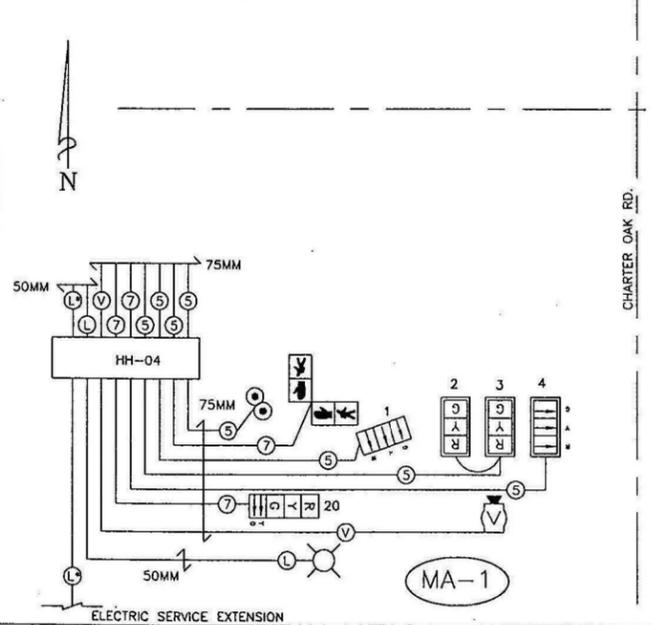
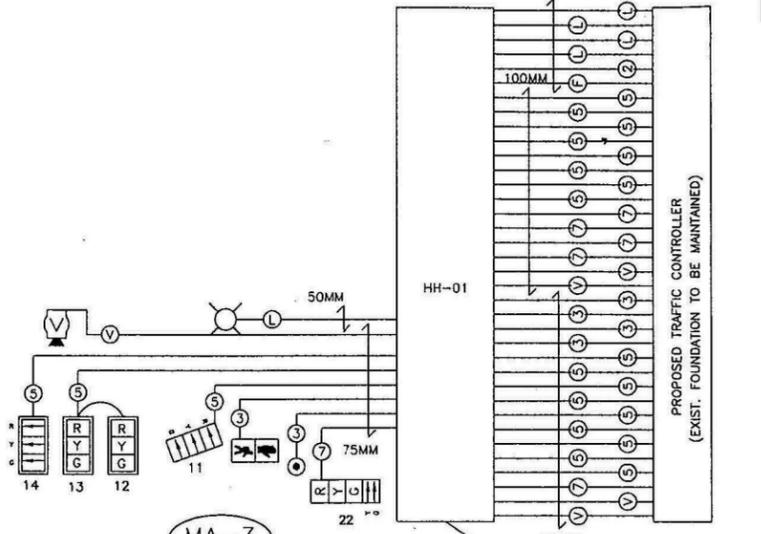
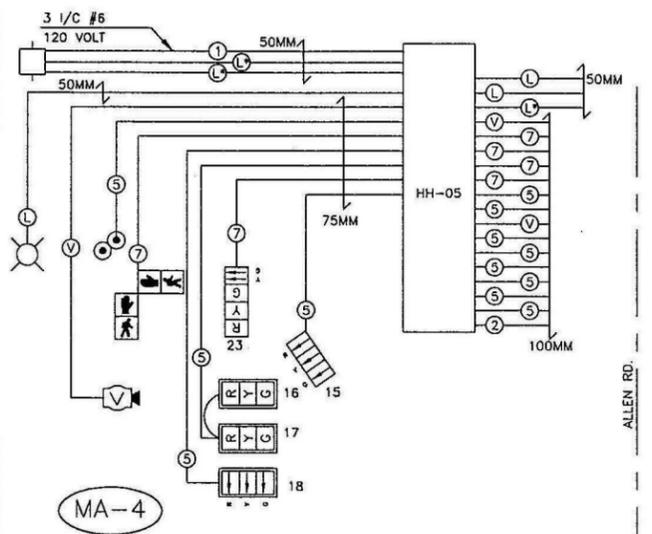
FILE NAME	USER NAME	DESIGNED	REVISED
68D43 - Misc. Electrical Project (Final Plans 4-7-17).dgn	keathbr	-	-
		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -



CONTROLLER SEQUENCE NOTES

IN FLASHING MODE, ALL VEHICULAR SIGNAL FACES SHALL FLASH RED AND ALL PEDESTRIAN SIGNAL FACES SHALL BE DARK.

- CONSTRUCTION NOTES**
- ALL PROPOSED TRAFFIC SIGNALS SHALL HAVE 300MM (12") LED SECTIONS.
 - THE RED SECTIONS OF THE SIGNAL HEADS SHARING THE SAME MASTARM SHALL BE LEVEL WITH ONE ANOTHER AND THE BOTTOM OF THE SIGNAL HEAD SHALL MAINTAIN A 4.88M (16") MINIMUM CLEARANCE ABOVE THE HIGHEST POINT OF THE ROADWAY.
 - THE PROPOSED MAST ARM MOUNTED TRAFFIC SIGNAL HEADS SHALL BE MOUNTED DIRECTLY OVER THE CENTER OF THEIR RESPECTIVE LANES.
 - ALL BRACKET MOUNTS AND ASSOCIATED PIPES ARE TO BE ALUMINUM, NATURAL FINISH.
 - COILABLE POLYETHYLENE DUCT MAY BE SUBSTITUTED FOR PVC CONDUIT PUSHED OR TRENCHED.
 - THE CONTRACTOR MAY ELECT TO PUSH A CONDUIT THAT IS SHOWN TO BE TRENCHED ON THE PLANS. THIS WORK WILL BE MEASURED FOR PAYMENT AND PAID FOR AS CONDUIT IN TRENCH OF THE TYPE AND SIZE SPECIFIED AND TRENCH AND BACKFILL FOR ELECTRICAL WORK.
 - THE LOCATION OF ALL UTILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO THE INSTALLATION OF ANY TRAFFIC SIGNAL COMPONENTS.
 - THE LOCATIONS FOR HANDHOLES AND MAST ARM FOUNDATIONS ARE PROVIDED FOR REFERENCE ONLY. THE ENGINEER OF TRAFFIC SHALL BE NOTIFIED FOR LOCATION APPROVAL AND VERIFICATIONS PRIOR TO INSTALLATION.
 - A TERMINAL BLOCK SHALL BE PROVIDED FOR EACH POLE WITH TWO OR MORE BRACKET MOUNTED SIGNAL HEADS. THE TERMINAL BLOCK SHALL CONTAIN SUFFICIENT TERMINALS TO ACCOMMODATE ALL ELECTRICAL FIXTURES ATTACHED TO THE MAST ARM AND STRAIN POLE.
 - PROPOSED HANDHOLES SHALL BE CAST-IN-PLACE CONCRETE HANDHOLES. NO PREFORMED HANDHOLES ARE ALLOWED. THIS WORK WILL BE PAID FOR AS "CONCRETE HANDHOLES."
 - THE HANDHOLE SHALL BE CONSTRUCTED SO THAT THE TOP OF FRAME WILL BE FLUSH WITH THE SURFACE OF THE MEDIAN OR GROUND.
 - ALL REMOVAL ITEMS SHALL BE DISPOSED OF OFF THE RIGHT-OF-WAY OR RETURNED TO THE CITY OF PEORIA AS DIRECTED BY THE ENGINEER.
 - THE EXISTING TRAFFIC SIGNALS SHALL REMAIN IN OPERATION DURING THE CONSTRUCTION OF THE PROPOSED TRAFFIC SIGNALS.
 - DURING NON-SIGNAL CONSTRUCTION, TRAFFIC WILL BE CONTROLLED BY TEMPORARY TRAFFIC SIGNALS HUNG ON AERIAL SPANS BETWEEN TEMPORARY WOODEN POLES. THE LOCATION OF THESE POLES HAVE BEEN SHOWN IN THIS SCHEMATIC, ALONG WITH THE POSITIONS OF CONSTRUCTION STAGING PHASE I TRAFFIC SIGNALS.
 - THE EQUIPMENT PROVIDING ELECTRICAL SERVICE TO THE EXISTING CONTROLLER SHALL BE MAINTAINED AND USED FOR THE TEMPORARY AND PROPOSED TRAFFIC SIGNALS.
 - THE TRAFFIC SIGNAL CONTROLLER SHALL BE ORIENTED SO THAT THE DOOR IS FACING AWAY FROM TRAFFIC.
 - LUMINAIRES SHALL BE 13.7M MOUNTING HEIGHT, WITH A 3.7M LUMINAIRE MAST ARM. FURNISH AND INSTALL A 20 AMP / 2 POLE, 240 VOLT, 10,000 AIC RATED CIRCUIT BREAKER FOR LIGHTING SERVICE IN CONTROLLER CABINET.
 - ALL SURPLUS MATERIALS SHALL BE DISPOSED OF IN ACCORDANCE WITH ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS.



US 150 & ALLEN RD SUMMARY OF TRAFFIC SIGNAL QUANTITIES

FULL-ACTUATED CONT. AND TY. V CAB. SPECIAL	EACH	1
CONCRETE HANDHOLE	EACH	4
CONCRETE DOUBLE HANDHOLE	EACH	1
SIGNAL HEADED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	12
SIGNAL HEADED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	7
SIGNAL HEADED, 2-FACE, 4-SECTION, BRACKET MOUNTED	EACH	3
PEDESTRIAN SIGNAL HEADED, 1-FACE, BRACKET MOUNTED	EACH	2
PEDESTRIAN SIGNAL HEADED, 2-FACE, BRACKET MOUNTED	EACH	2
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	15
PEDESTRIAN PUSH-BUTTON	EACH	6
REMOVE EXISTING TRAFFIC SIGNALS AND EQUIPMENT	EACH	1
CONDUIT IN TRENCH, 50MM, PVC	METER	49.8
CONDUIT IN TRENCH, 75MM, PVC	METER	10.3
PUSHED CONDUIT, 50mm, PVC	METER	129.3
PUSHED CONDUIT, 90mm, PVC	METER	31.8
PUSHED CONDUIT, 75mm, PVC	METER	30.6
PUSHED CONDUIT, 100mm, PVC	METER	52.2
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14, 3C	METER	175.8
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14, 5C	METER	980.7
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14, 7C	METER	299.6
FIBER OPTIC CABLE IN CONDUIT, 12F (6MM, 6M)	METER	49.8
ELECTRIC CABLE IN CONDUIT, XLP-TYPE USE, 1/C, #6	METER	1364.7
TRAFFIC SIGNAL POST, GALVANIZED STEEL, 4.25M	EACH	2
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 15.24M	EACH	4
CONCRETE FOUNDATION, TYPE D	METER	1.1
CONCRETE FOUNDATION, TYPE E, 750mm DIAMETER	METER	26.2
TRANSCEIVER, FIBER OPTIC	EACH	2
TRENCH AND BACKFILL FOR ELECTRICAL WORK	METER	60.1
VIDEO DETECTION SYSTEM, 5 CAMERA	EACH	1
LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT 400W	EACH	4
SERVICE INSTALLATION, TY. B (MODIFIED)	EACH	1
BATTERY BACKUP SYSTEM WITH CABINET EACH	EACH	1
MASTER CONTROLLER, SPECIAL	EACH	1
CONCRETE FOUNDATION, TYPE A	METER	1.8
LIGHTING CONTROLLER, PHOTOCCELL RELAY, INSTALL ONLY	EACH	1

FOR INFORMATION ONLY

REVISIONS

NO.	DATE	DESCRIPTION	APPROVED
1	01/03	CITY OF PEORIA TRAFFIC MAINTENANCE COMMENTS	
2	05/03	IDOT TRAFFIC SIGNAL SYSTEMS COMMENTS	

DESIGNED - CWV
 DRAWN - CWV
 CHECKED - FEA
 DATE - 07/21/03

Harding ESE
 A MACTEC Company
 ILLINOIS PROFESSIONAL DESIGN FIRM
 LS/PE/SE, LICENSE #184-001138

SHEET 3 OF 5

PROP. TRAFFIC CABLE DETAILS

CITY OF PEORIA
 ENGINEERING DIVISION
 419 FULTON ST.
 PEORIA, IL 61602

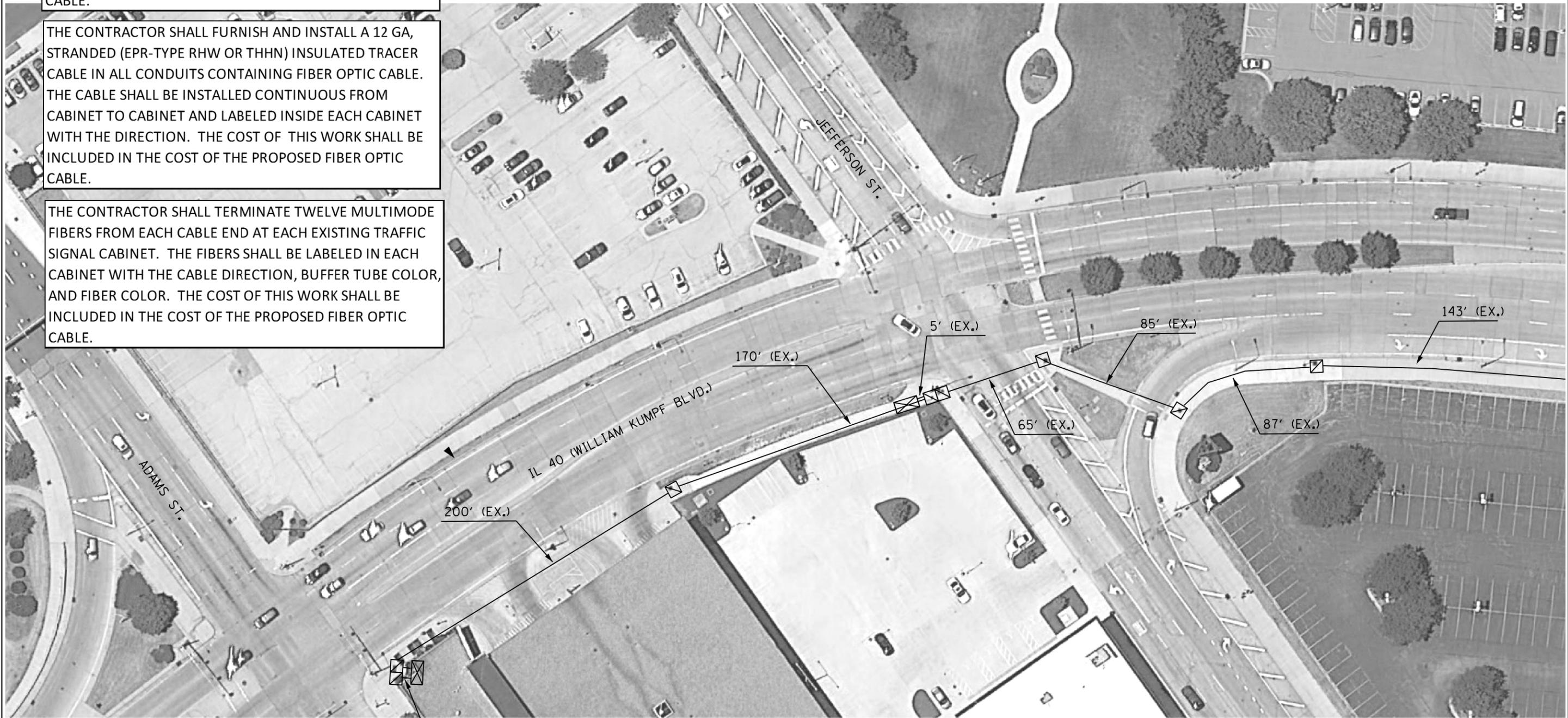
PEORIA, TAZEWELL, WOODFORD



THE CONTRACTOR SHALL REMOVE THE EXISTING COPPER INTERCONNECT CABLE ALONG IL 40 (KUMPF BLVD) FROM ADAMS STREET TO M.L. KING DRIVE AND DISPOSE OF IT OFF OF THE RIGHT OF WAY. THE COST OF THIS WORK SHALL BE INCLUDED IN THE COST OF THE PROPOSED FIBER OPTIC CABLE.

THE CONTRACTOR SHALL FURNISH AND INSTALL A 12 GA, STRANDED (EPR-TYPE RHW OR THHN) INSULATED TRACER CABLE IN ALL CONDUITS CONTAINING FIBER OPTIC CABLE. THE CABLE SHALL BE INSTALLED CONTINUOUS FROM CABINET TO CABINET AND LABELED INSIDE EACH CABINET WITH THE DIRECTION. THE COST OF THIS WORK SHALL BE INCLUDED IN THE COST OF THE PROPOSED FIBER OPTIC CABLE.

THE CONTRACTOR SHALL TERMINATE TWELVE MULTIMODE FIBERS FROM EACH CABLE END AT EACH EXISTING TRAFFIC SIGNAL CABINET. THE FIBERS SHALL BE LABELED IN EACH CABINET WITH THE CABLE DIRECTION, BUFFER TUBE COLOR, AND FIBER COLOR. THE COST OF THIS WORK SHALL BE INCLUDED IN THE COST OF THE PROPOSED FIBER OPTIC CABLE.



BILL OF MATERIALS		
ITEM DESCRIPTION	UNIT	TOTAL QTY.
FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM24F	FOOT	927.0

FILE NAME =	USER NAME = kesthbr	DESIGNED -	REVISED -
68D43 - Misc. Electrical Project (Final Plans 4-7-17).dgn		DRAWN -	REVISED -
	PLOT SCALE = 38.0588' / in.	CHECKED -	REVISED -
	PLOT DATE = 4/7/2017	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PROPOSED FIBER OPTIC INTERCONNECT CABLE IN EXISTING CONDUIT
IL 40 (WM KUMPF BLVD) FROM ADAMS ST TO ML KING DR - PEORIA**

• PEORIA, TAZEWELL, WOODFORD		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D4 TRAFFIC SIGNALS 2017				28	23
CONTRACT NO. 68D43						
ILLINOIS FED. AID PROJECT						

SCALE: _____ STA. _____ TO STA. _____



BILL OF MATERIALS		
ITEM DESCRIPTION	UNIT	TOTAL QTY.
FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM24F	FOOT	1049.0

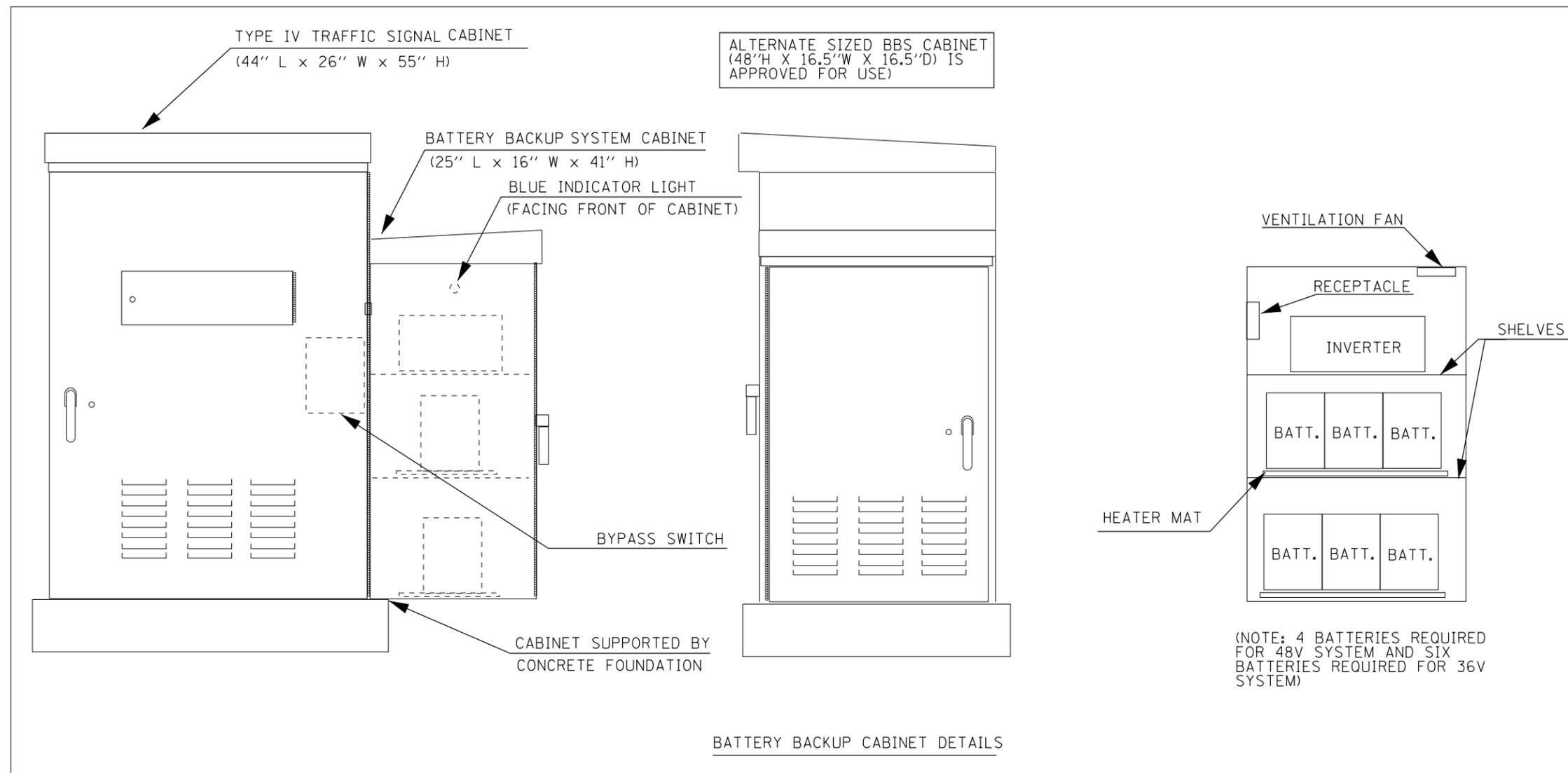
FILE NAME = 68D43 - Misc. Electrical Project (Final Plans 4-7-17).dgn	USER NAME = keathbr	DESIGNED -	REVISED -
PLOT SCALE = 38.0568' / in.	CHECKED -	REVISIED -	REVISIED -
PLOT DATE = 4/7/2017	DATE -	REVISIED -	REVISIED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PROPOSED FIBER OPTIC INTERCONNECT CABLE IN EXISTING CONDUIT
IL 40 (WM KUMPF BLVD) FROM ADAMS ST TO ML KING DR - PEORIA**

SCALE: _____ STA. _____ TO STA. _____

• PEORIA, TAZEWELL, WOODFORD		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D4 TRAFFIC SIGNALS 2017				28	25
				CONTRACT NO. 68D43		
ILLINOIS FED. AID PROJECT						



NOTES

1. THE BATTERY BACKUP SYSTEM CABINET SHALL BE A NEMA TYPE 3R CABINET WITH MINIMUM OUTSIDE DIMENSIONS OF 41" (H) X 25" (W) X 16" (D). THE CABINET SHALL BE EQUIPPED WITH A THREE POINT LATCHING MECHANISM, TWO SHELVES, THERMOSTATICALLY CONTROLLED VENTILATION FAN, AND A POWER RECEPTACLE. THE CABINET SHALL BE MOUNTED TO THE SIDE OF THE PROPOSED TYPE IV CABINET WITH THE BOTTOM OF THE CABINET SUPPORTED BY THE CONCRETE FOUNDATION.
2. ALL CABINET LIGHTS, HEATER STRIPS, VENTILATION FANS, AND SERVICE RECEPTACLES SHALL BE BYPASSED WHEN THE BATTERY BACKUP UNIT IS OPERATING IN BATTERY MODE.
3. THE BATTERY BACKUP UNITS CONTACTS SHALL BE WIRED TO PROVIDE LOCAL CONTROLLER ALARMS (AS AVAILABLE IN THE PROPOSED CABINETS).
4. THE BYPASS SWITCH SHALL BE AUTOMATIC AND SHALL BE INSTALLED IN THE BBS CABINET.

NOT TO SCALE

• PEORIA, TAZEWELL, WOODFORD

FILE NAME =	USER NAME = keithbr	DESIGNED -	REVISED -
68D43 - Misc. Electrical Project (Final Plans 4-7-17).dgn		DRAWN -	REVISED -
	PLOT SCALE = 38.0588' / in.	CHECKED -	REVISED -
	PLOT DATE = 4/7/2017	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

BATTERY BACKUP SYSTEM CABINET DETAIL

SCALE: _____ STA. _____ TO STA. _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D4 TRAFFIC SIGNALS 2017	•	28	26
			CONTRACT NO. 68D43	
ILLINOIS FED. AID PROJECT				

