

06-13-2025 LETTING ITEM 079

INDEX OF SHEETS:

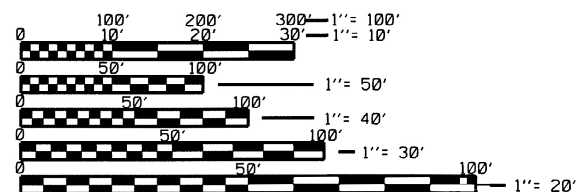
SEE SHEET 2 FOR INDEX OF SHEETS

HIGHWAY STANDARDS:

SEE SHEET 2 FOR A LIST OF
APPLICABLE HIGHWAY STANDARDS

PROJECT DESCRIPTION:

REMOVAL AND REPLACEMENT OF
TRAFFIC SIGNAL MAST ARM ON
US 24 & WESLEY RD. IN CREVE
COEUR



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD
ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT
CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS
ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.
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. 036590-000
CONTRACT NO. 68J79

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED
HIGHWAY PLANS

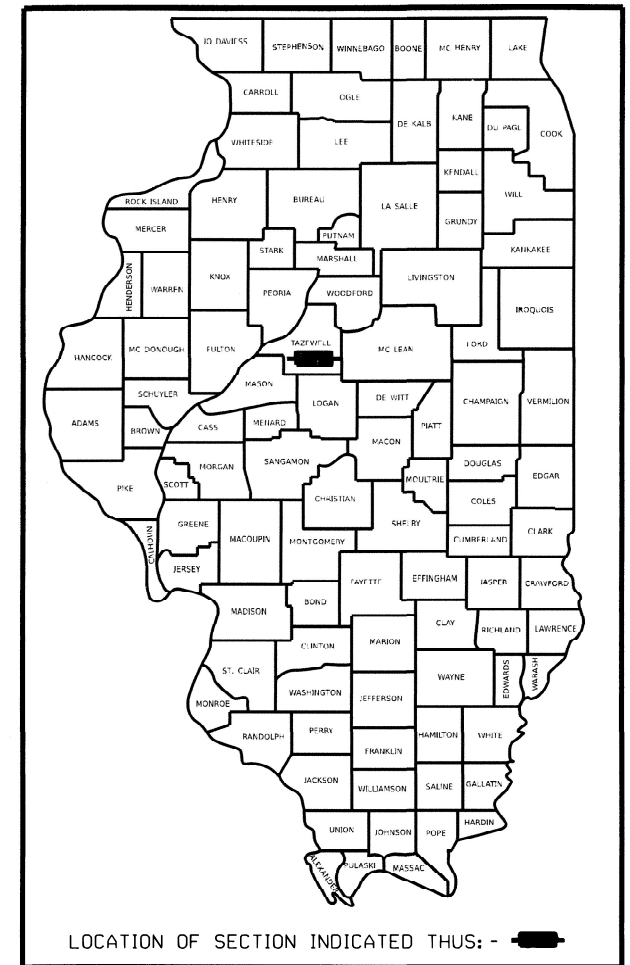
FAP 669 (IL 29)
SECTION: (11)TS-5
TAZEWELL COUNTY

C-94-014-25



F.A.P. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(11)TS-5	TAZEWELL	10	1
		ILLINOIS	CONTRACT NO. 68J79	

D-94-014-25



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED March 21 2025
[Signature]
REGIONAL ENGINEER
May 9 2025
[Signature]
ENGINEER OF DESIGN AND ENVIRONMENT
May 9 2025
[Signature]
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

INDEX OF SHEETS	
SHEET	DESCRIPTION
1	COVER SHEET
2	COMMITMENTS, INDEX OF SHEETS, HIGHWAY STANDARDS
3	CONSTRUCTION NOTES
4	SUMMARY OF QUANTITIES
5-6	EXISTING TRAFFIC SIGNAL PLANS - IL 29 & WESLEY RD.
7	EXISTING TRAFFIC SIGNALS - IL 29 & WESLEY RD.
8	PROPOSED TRAFFIC SIGNALS - IL 29 & WESLEY RD.
9	PROPOSED TRAFFIC SIGNAL CABLE AND PHASE DIAGRAMS - IL 29 & WESLEY RD.
10	TRAFFIC SIGNAL MAST ARM AND POST DETAILS

HIGHWAY STANDARDS	
000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001006	DECIMAL OF AN INCH & FOOT
701001-02	OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY
701006-05	OFF-ROAD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
701101-05	OFF-ROAD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE
701106-02	OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15' AWAY
701602-10	URBAN LANE CLOSURE, MULTILANE, 2W WITH BIDIRECTIONAL LEFT TURN LANE
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701901-10	TRAFFIC CONTROL DEVICES
857001-01	STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES
873001-02	TRAFFIC SIGNAL GROUNDING AND BONDING
877006-06	STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS
878001-11	CONCRETE FOUNDATION DETAILS
880006-01	TRAFFIC SIGNAL MOUNTING DETAILS

NO COMMITMENTS HAVE BEEN MADE IN CONJUNCTION WITH THIS PROJECT

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	USER NAME = trevor.hanson	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.
		DRAWN - _____	REVISED - _____						669	(11)TS-5	TAEWELL	10	2
		CHECKED - _____	REVISED - _____		CONTRACT NO. 68J79								
	PLOT DATE = 1/7/2025	DATE - _____	REVISED - _____		SCALE: _____	SHEET _____ OF _____ SHEETS	STA. _____ TO STA. _____	ILLINOIS FED. AID PROJECT					

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*= SPECIALTY ITEM

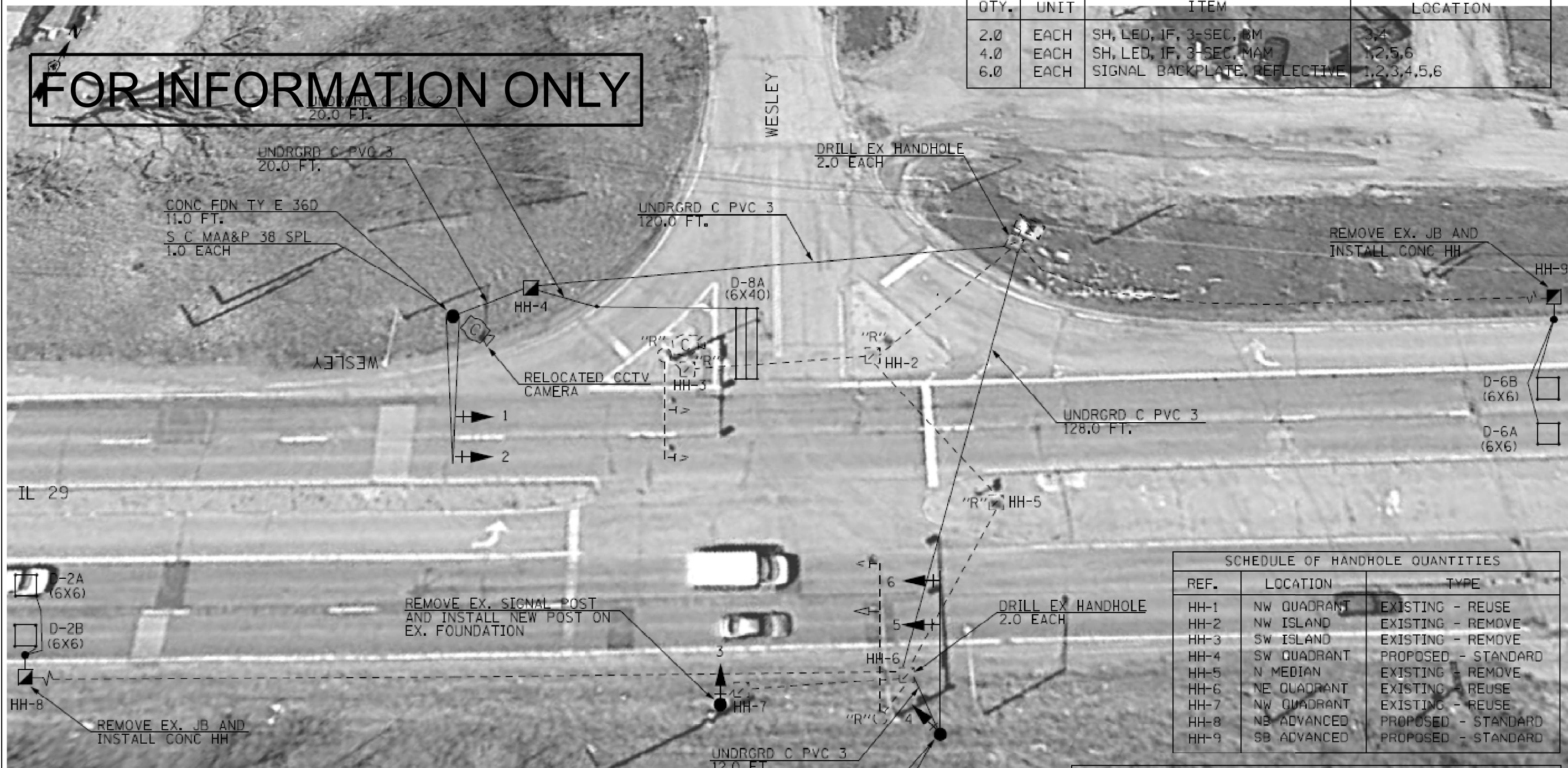
SUMMARY OF QUANTITIES				TAZEWELL COUNTY CONST. TYPE CODE 0021 (93.3% STATE/6.7% CITY) TRAFFIC SIGNALS CREVE COEUR URBAN
CODE	ITEM DESCRIPTION	UNIT	TOTAL QTY.	
67100100	MOBILIZATION	L SUM	1.0	1.0
* 72000100	SIGN PANEL - TYPE 1	SQ FT	5.0	5.0
81028340	UNDERGROUND CONDUIT, PVC, 1 1/2" DIA.	FOOT	12.0	12.0
81028370	UNDERGROUND CONDUIT, PVC, 3" DIA.	FOOT	15.0	15.0
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	474.0	474.0
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	275.5	275.5
87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	49.0	49.0
87702638	STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 40 FT. AND 48 FT.	EACH	1.0	1.0
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	3.0	3.0
87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	14.0	14.0
87900200	DRILL EXISTING HANDHOLE	EACH	2.0	2.0
88040070	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1.0	1.0
88040090	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	3.0	3.0
88040110	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	1.0	1.0
88040125	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 4-SECTION, MAST-ARM MOUNTED	EACH	1.0	1.0
88200510	TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	6.0	6.0
89501150	RELOCATE EXISTING TRAFFIC SIGNAL POST	EACH	1.0	1.0
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1.0	1.0
89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	2.0	2.0
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1.0	1.0
X8570226	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET (SPECIAL)	EACH	1.0	1.0
X8891011	VIDEO VEHICLE DETECTION SYSTEM, 3 CAMERA	EACH	1.0	1.0

	USER NAME = trevor.hanson	DESIGNED - _____	REVISED - _____	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES		F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - _____	REVISED - _____				669	(11)TS-5	TAZEWELL	10	4
	PLOT DATE = 1/7/2025	CHECKED - _____	REVISED - _____		SCALE: _____ SHEET _____ OF _____ SHEETS STA. _____ TO STA. _____		ILLINOIS FED. AID PROJECT CONTRACT NO. 68J79				

MAST ARMS FOR IL 29 SHALL BE LOCATED A MINIMUM OF 18 FT. FROM THE EDGE OF TRAVELLED WAY.

FOR INFORMATION ONLY

SCHEDULE OF TRAFFIC SIGNAL HEADS			
QTY.	UNIT	ITEM	LOCATION
2.0	EACH	SH, LED, 1F, 3-SEC, RM	3,4
4.0	EACH	SH, LED, 1F, 3-SEC, MAM	1,2,5,6
6.0	EACH	SIGNAL BACKPLATE, REFLECTIVE	1,2,3,4,5,6



SCHEDULE OF HANDHOLE QUANTITIES		
REF.	LOCATION	TYPE
HH-1	NW QUADRANT	EXISTING - REUSE
HH-2	NW ISLAND	EXISTING - REMOVE
HH-3	SW ISLAND	EXISTING - REMOVE
HH-4	SW QUADRANT	PROPOSED - STANDARD
HH-5	N MEDIAN	EXISTING - REMOVE
HH-6	NE QUADRANT	EXISTING - REUSE
HH-7	NW QUADRANT	EXISTING - REUSE
HH-8	NB ADVANCED	PROPOSED - STANDARD
HH-9	SB ADVANCED	PROPOSED - STANDARD

SCHEDULE OF SIGNAL POSTS AND MAST ARM ASSEMBLIES			
REF.	LOCATION	TYPE	LENGTH
MA-1	SW QUADRANT	S C MAA & P (SPL)	38 FT.
MA-2	NE QUADRANT	S MAA & P (SPL)	38 FT.
TS-1	NW QUADRANT	TS POST GALV	15 FT.

NOT TO SCALE
TRAFFIC SIGNALS
SHEET 2 OF 3

TRAFFIC SIGNAL LEGEND			
"R" EX. HANDHOLE TO BE REMOVED	PROP. HANDHOLE	PROP. DETECTOR LOOP (QUAD)	PROP. DETECTOR LOOP (6' X 6')
EX. HANDHOLE	PROP. CONDUIT	PROP. TRAFFIC SIGNAL HEAD	PROP. TRAFFIC SIGNAL HEAD W/ BACKPLATE
EX. CONDUIT	PROP. TRAFFIC SIGNAL POST	PROP. GROUND/SAFETY BOND OF EX STRUCTURE	PROP. STL COMB MAST ARM ASSEMBLY AND POLE (SPL)
EX. CONTROLLER CABINET (SIGNAL)	PROP. TRAFFIC SIGNAL HEAD W/ BACKPLATE	PROP. STL MAST ARM ASSEMBLY AND POLE (SPL)	
EX. ELECTRICAL SERVICE			
EX. TRAFFIC SIGNAL HEAD			
EX. TRAFFIC SIGNAL HEAD W/ BACKPLATE			
EX. STL MAST ARM ASSEMBLY AND POLE			

FILE NAME =	USER NAME =	DESIGNED -	REVISED -
PRJ68C59 - IL 29 & Wesley Traffic Signals	trevor.hanson	DRAWN -	REVISED -
Default	PLT SCALE = 48/835 1/2 3/4	CHECKED -	REVISED -
	PLT DATE = 5/7/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED TRAFFIC SIGNALS
IL 29 & WESLEY ROAD - EAST PEORIA

F&P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	11RS-11	TAZEWELL	10	5
CONTRACT NO. 68C59				

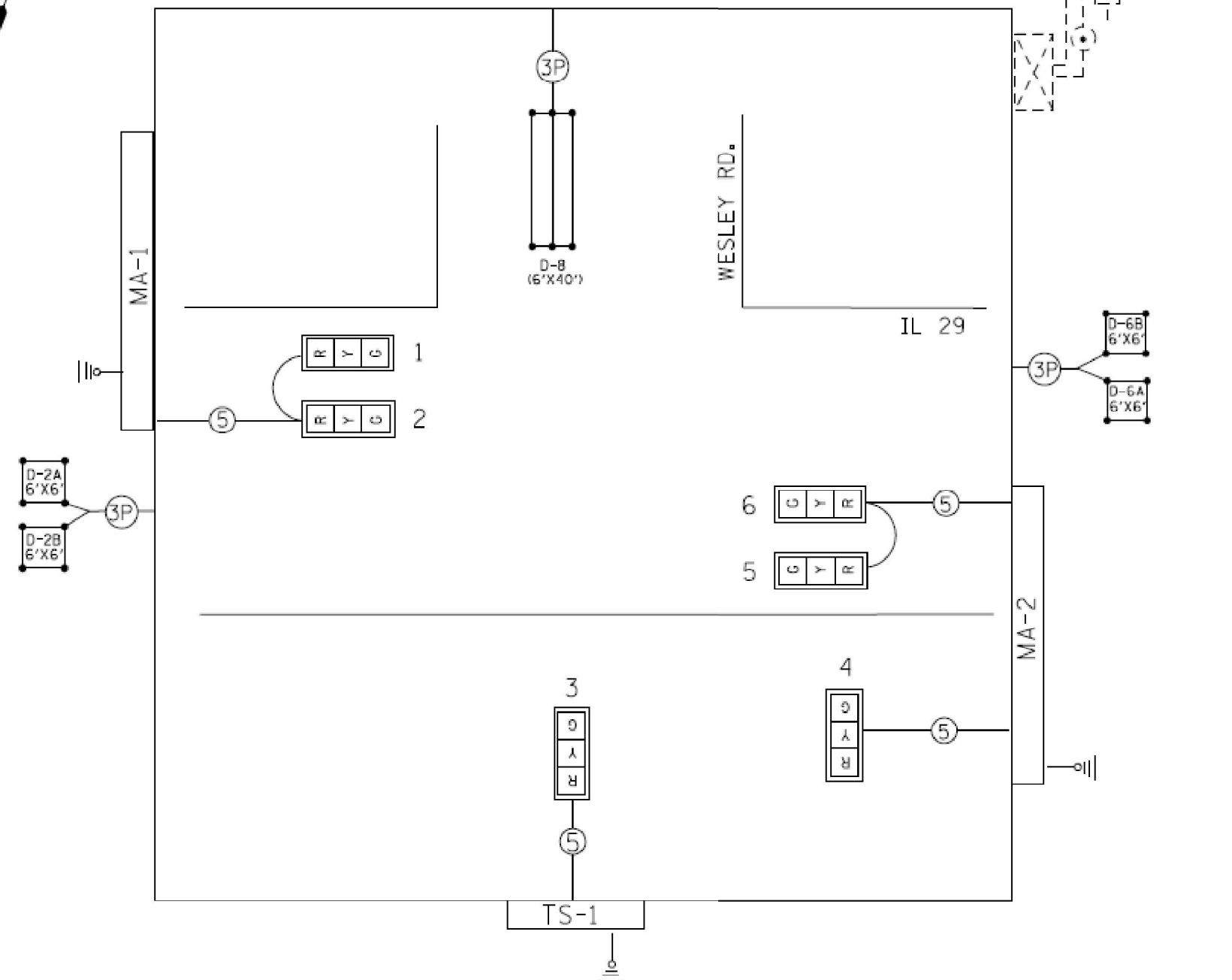
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING TRAFFIC SIGNAL PLANS
(FOR INFORMATION ONLY)

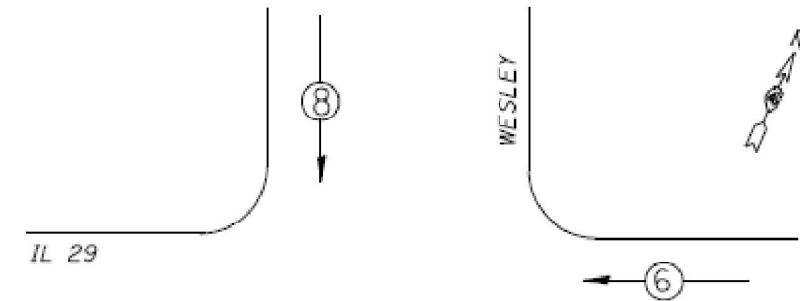
F&P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(11)TS-5	TAZEWELL	10	5
CONTRACT NO. 68J79				

FOR INFORMATION ONLY

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.



EXISTING AND PROPOSED PHASE DIAGRAM
NAME OF INTERSECTION IL 29 & WESLEY ROAD - EAST PEORIA
EXISTING CONTROLLER: ECONOLITE ASC/3-2100 (TS-2 TY 2)
IN TYPE IV TS-2 CABINET (16 POS.)




 VEHICULAR MOVEMENT
 * NUMBER REFERS TO ASSOCIATED PHASE

DETECTOR LOOP AND DETECTOR ASSIGNMENT SCHEDULE
IL 29 & WESLEY RD - EAST PEORIA

DETECTOR LOOP	TYPE	DETECTOR LOOP QTY.	DETECTOR LEAD-IN QTY.	ADJUST EX. LOOP RISER	ASSIGNED PHASE
D-2A	6' X 6' ADV	24	15	1	2
D-2B	6' X 6' ADV	24	6	1	2
D-6A	6' X 6' ADV	24	15	1	6
D-6B	6' X 6' ADV	24	6	1	6
D-8	6' X 40' QUAD	132	32	1	8
TOTAL:		228	74	5	

NOT TO SCALE
TRAFFIC SIGNALS
SHEET 3 OF 4

TRAFFIC SIGNALS LEGEND

	PROP. 3 SEC. SIGNAL HEAD W/BACKPLATE		5/C NO. 14 SIGNAL CABLE		PROP. DETECTOR LOOP (QUAD)		EX. CONTROLLER (SIGNAL)		EX. FIBER INTERCONNECT
	PROP. GROUND/SAFETY BOND		*18 3-PR DETECTOR LOOP CABLE		PROP. DETECTOR LOOP (6'X6')		EX. SERVICE INSTALLATION		EX. SERVICE CABLE (1/C #6)

FILE NAME = C:\Users\HWH\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.IE5\468C59-1L29\Wesley Road Signal Plans Revised 5-6-2015		USER NAME = hwholder	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED CABLE AND PHASE DIAGRAMS IL 29 & WESLEY ROAD - EAST PEORIA	F.A.P. RTE. 669	SECTION 11R5-11	COUNTY TAZEWELL	TOTAL SHEETS 6	SHEET NO. 59
PLOT SCALE = 480000' / 1 in.		CHECKED -	REVISED -	CONTRACT NO. 68C59							
PLOT DATE = 5/6/2015		DATE -	REVISED -	ILLINOIS FED. AID PROJECT							
SCALE: 1" = 480000'		SHEET 1	OF 6	SHEETS STA. 0+00			TO STA. 0+10				

USER NAME = trevor.hanson		DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING TRAFFIC SIGNAL PLANS (FOR INFORMATION ONLY)	F.A.P. RTE. 669	SECTION (11)TS-5	COUNTY TAZEWELL	TOTAL SHEETS 10	SHEET NO. 6
DRAWN -		REVISED -	CONTRACT NO. 68J79							
CHECKED -		REVISED -	ILLINOIS FED. AID PROJECT							
PLOT DATE = 1/7/2025		DATE -	REVISED -							

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BILL OF MATERIALS		
ITEM DESCRIPTION	UNIT	TOTAL QTY.
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1.0
REMOVE EXISTING CONCRETE FOUNDATION	EACH	2.0

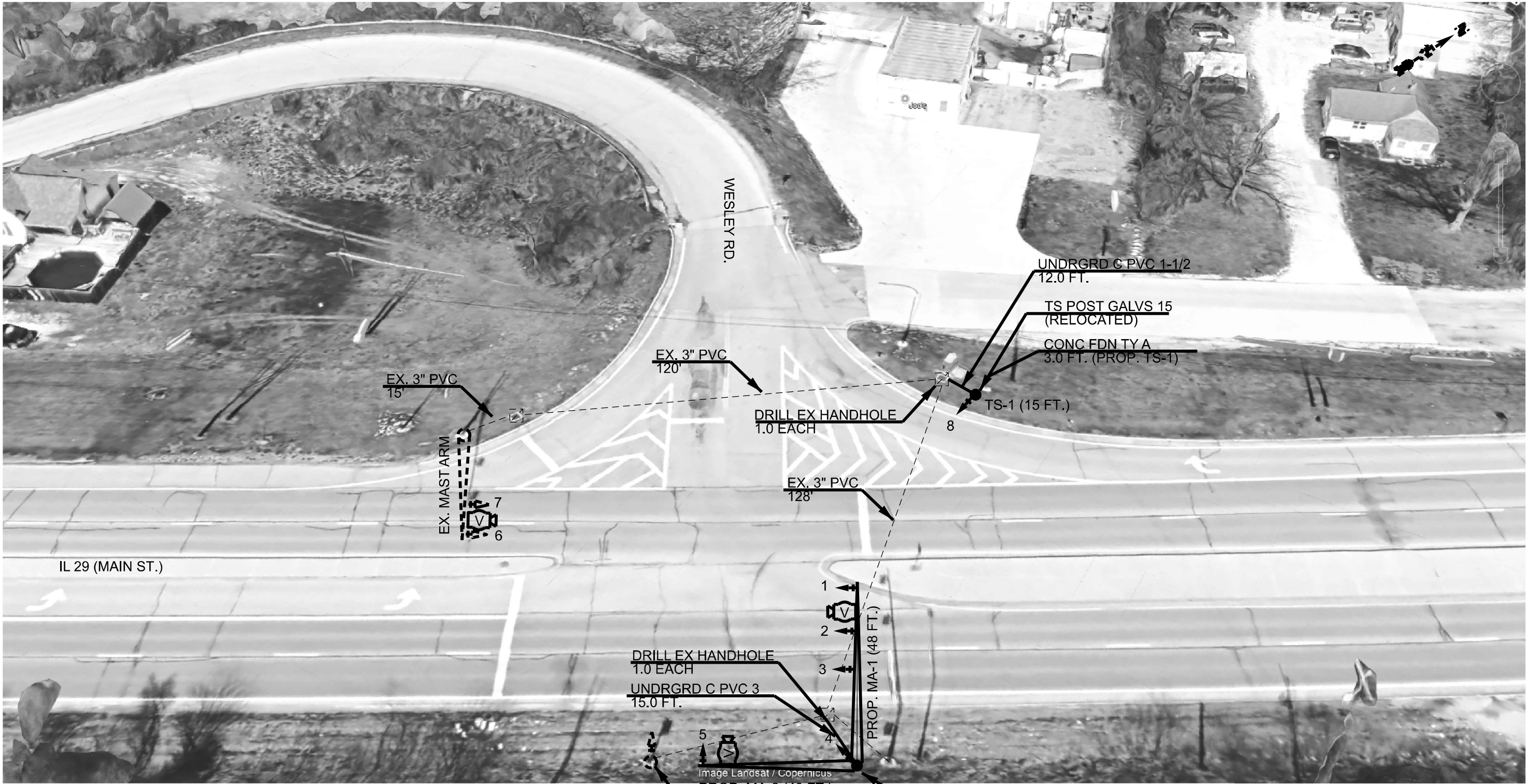
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT - 1.0 EACH
(INCLUDES ALL ITEMS LISTED BELOW:

STEEL MAST ARTM ASSEMBLY AND POLE - 1.0 EACH
SIGNAL HEAD, MAST ARM MOUNTED - 2.0 EACH
SIGNAL HEAD BRACKET MOUNTED - 1.0 EACH

THE CONTRACTOR SHALL DISPOSE OF ALL ITEMS OFF THE ROW AND REFLECT THE SALVAGE VALUE IN THE CONTRACT UNIT BID PRICE FOR THIS PAY ITEMS

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		DRAWN - _____	REVISED - _____						RTE.			SHEETS	NO.
		CHECKED - _____	REVISED - _____						669	{11}TS-5	TAZEWELL	10	7
	PLOT DATE = 1/7/2025	DATE - _____	REVISED - _____		SCALE: _____		SHEET _ OF _ SHEETS	STA. _____	TO STA. _____	CONTRACT NO. 68J79			ILLINOIS FED. AID PROJECT



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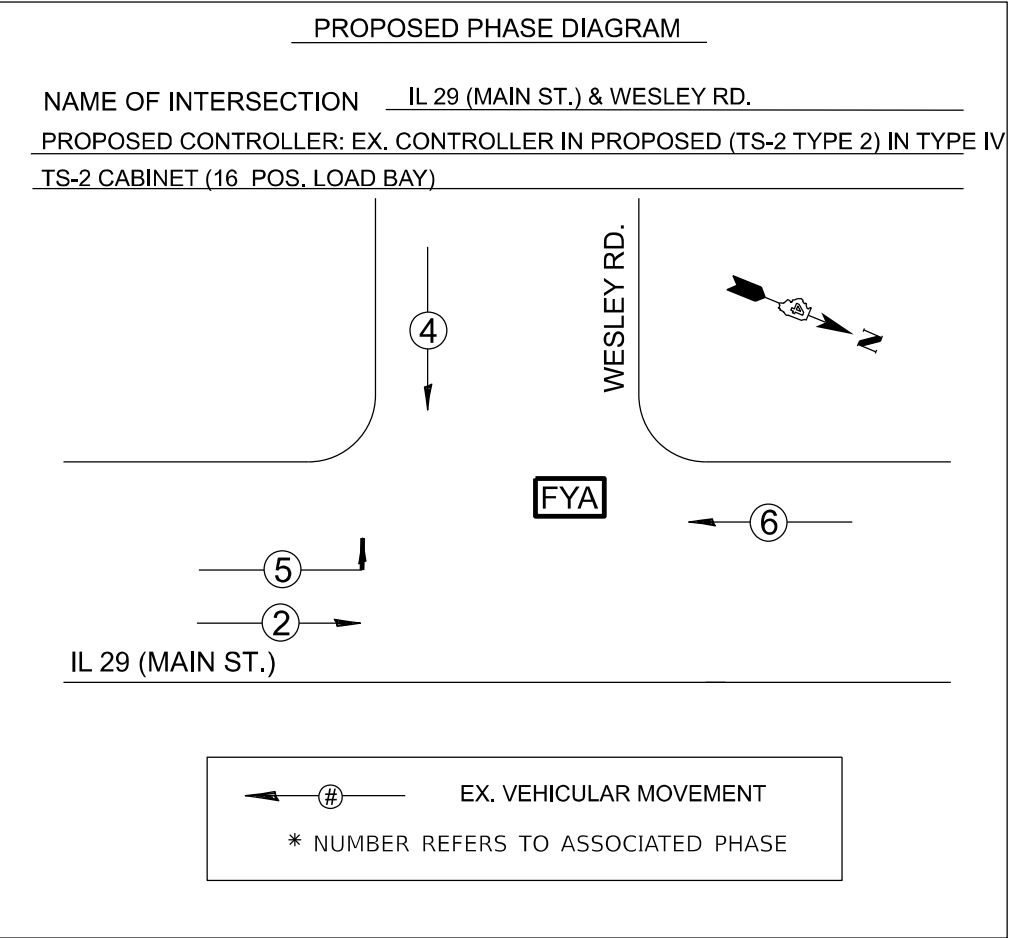
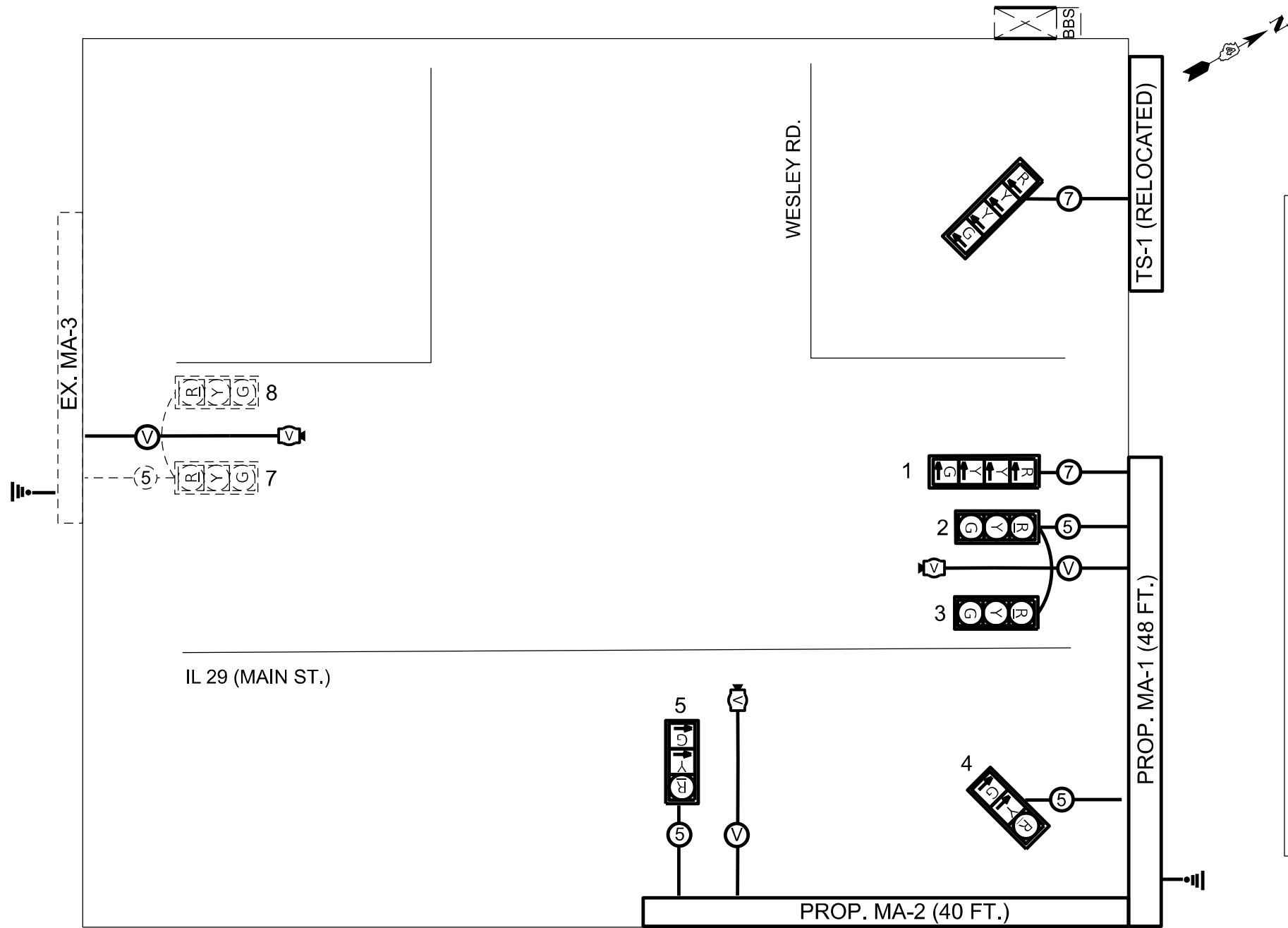
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		DRAWN - _____	REVISED - _____
		CHECKED - _____	REVISED - _____
	PLOT DATE = 1/7/2025	DATE - _____	REVISED - _____

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 29 & WESLEY RD. PROPOSED TRAFFIC SIGNALS			
SCALE: _____	SHEET _____	OF _____ SHEETS	STA. _____ TO STA. _____

F.A.P. RTE. 669	SECTION (11)TS-5	COUNTY TAEWELL	TOTAL SHEETS 10	SHEET NO. 8
CONTRACT NO. 68J79				
ILLINOIS FED. AID PROJECT				

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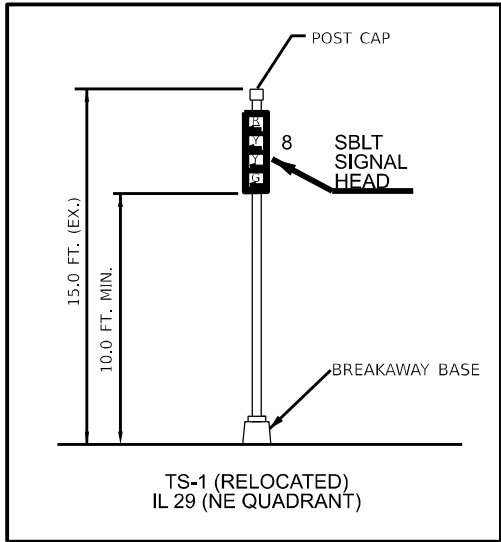
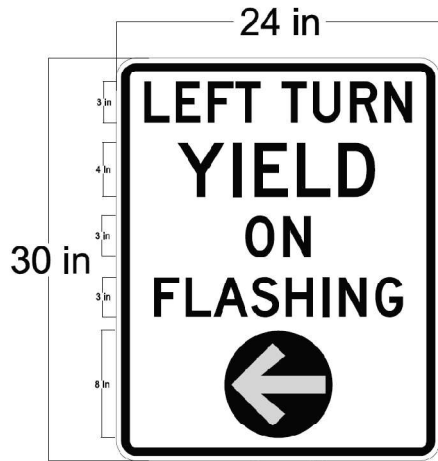
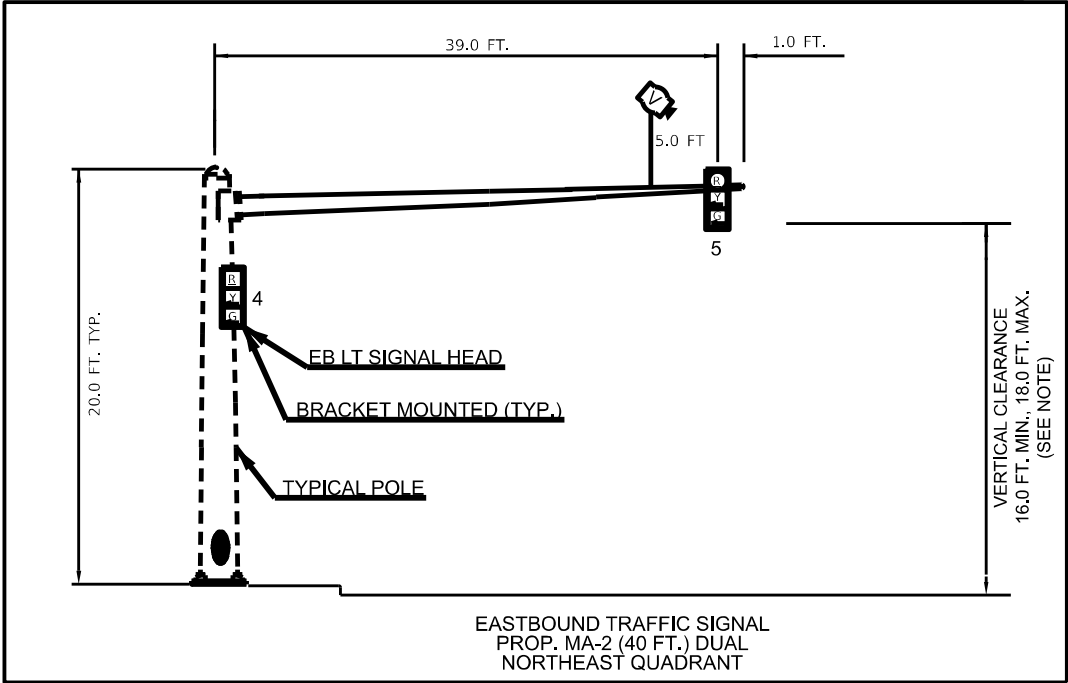
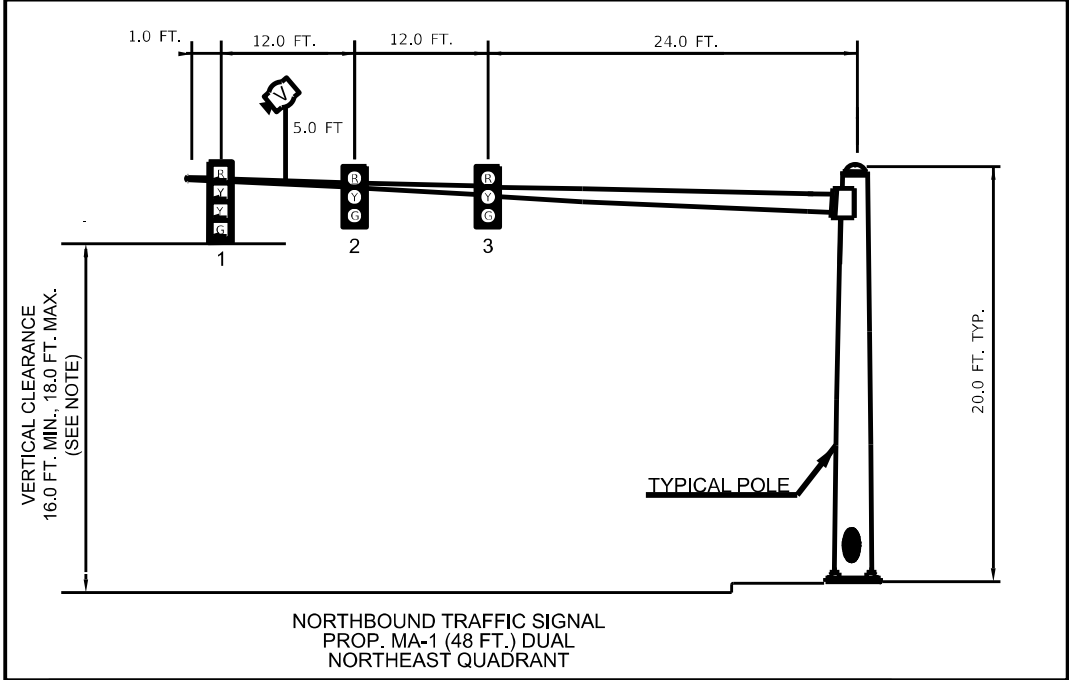


TRAFFIC SIGNALS LEGEND			
	EX. TRAFFIC SIGNAL CONTROLLER CABINET		PROP. 3-SECTION SIGNAL HEAD WITH BACKPLATE
	EX. BATTERY BACKUP SYSTEM		PROP. VIDEO DETECTION CAMERA
	EX. ELECTRIC SERVICE		PROP. 5/C NO. 14 SIGNAL CABLE
	EX. GROUND/SAFETY BOND		PROP. 3/C NO. 14 SIGNAL CABLE
	PROP. GROUND/SAFETY BOND		PROP. VIDEO DETECTION CABLE

NOT TO SCALE

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION				IL 29 & WESLEY RD. PROPOSED CABLE AND PHASE DIAGRAMS		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
USER NAME = trevor.hanson		DESIGNED - _____	REVISED - _____	SCALE: _____		669	(11)TS-5	TAZEWELL	10	9
DRAWN - _____		CHECKED - _____	REVISED - _____	SHEET _____ OF _____ SHEETS		CONTRACT NO. 68J79				
PLOT DATE = 1/7/2025		DATE - _____	REVISED - _____	STA. _____ TO STA. _____		ILLINOIS FED. AID PROJECT				

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- NOTES:
1. THE VERTICAL CLEARANCE REQUIREMENTS BETWEEN THE BOTTOM OF THE LOWEST SIGNAL HEAD BACKPLATE AND THE HIGHEST POINT OF THE PAVEMENT ARE AS FOLLOWS: 16.0 FT. MINIMUM AND 18.0 FT. MAXIMUM.
 2. ALL TRAFFIC SIGNAL SECTIONS SHALL HAVE 12" SINGLE RED LENSES.
 3. THE RED SECTIONS OF THE SIGNAL HEADS SHARING THE SAME MAST ARM SHALL BE LEVEL WITH ONE ANOTHER.
 4. THE CONTRACTOR SHALL RELOCATE ALL OTHER EXISTING SIGNS FROM THE REMOVED MAST ARMS AND TRAFFIC SIGNAL POSTS TO THE PROPOSED MAST ARMS AND TRAFFIC SIGNAL POSTS. THIS WORK WILL NOT BE PAID FOR SEPERATELY, BUT SHALL BE INCLUDED IN THE COST OF THE PROPOSED ITEMS.

NOT TO SCALE

	USER NAME = Irevor.hanson	DESIGNED - _____	REVISED - _____	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL 29 & WESLEY RD. MAST ARM AND SIGNAL POST DETAILS	F.A.P RTE.					SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - _____	REVISED - _____			669		(11)TS-5	TAZEWELL	10	10			
		CHECKED - _____	REVISED - _____											
	PLOT DATE = 1/7/2025	DATE - _____	REVISED - _____											
	SCALE: _____					SHEET _ OF _ SHEETS	STA. _____	TO STA. _____		CONTRACT NO. 68J79				
								ILLINOIS	FED. AID PROJECT					