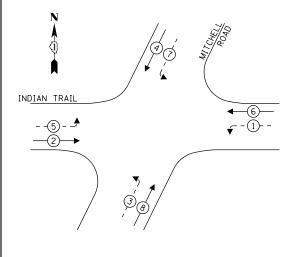
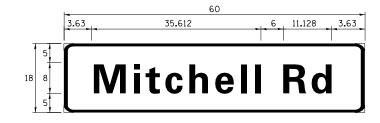
#### **EXISTING CONTROLLER SEQUENCE**



MA-1



DESIGN	AREA	SIGN PANEL	SHEETING	QTY.
SERIES	(SQ FT)	TYPE	TYPE	REQUIRED
D	7.5	1	ZZ	

SHALL BE MOUNTED ON THE MAST ARMS IN THE NORTHWEST AND SOUTHEAST CORNERS.

#### **LEGEND:**

**◆** PROTECTED PHASE

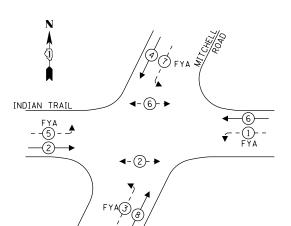
← -(\*)- - PROTECTED/PERMITTED PHASE

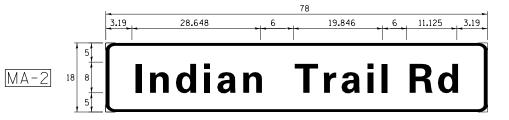
√
→
PEDESTRIAN PHASE

FYA FLASHING YELLOW LIGHT

◆ OL OVERLAP

#### PROPOSED CONTROLLER SEQUENCE

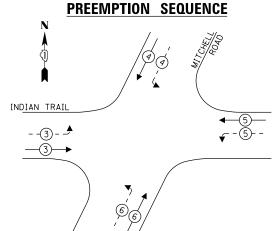


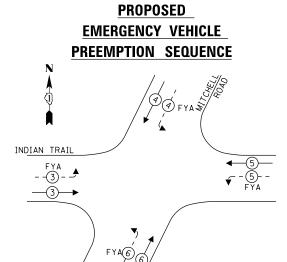


DESIGN	AREA	SIGN PANEL	SHEETING	QTY.
SERIES	(SQ FT)	TYPE	TYPE	REQUIRED
D	9.75	2	ZZ	2

SHALL BE MOUNTED ON THE MAST ARM IN SOUTHWEST AND NORTHEAST CORNERS.

# **EXISTING EMERGENCY VEHICLE**





# LIGHTING CABLE PLAN 240V LUMINAIRES

**EXISTING & PROPOSED** 

## **SCHEDULE OF QUANTITIES**

ITEM	UNIT	TOTAL
SIGN PANEL - TYPE 1	SQ FT	67.5
SIGN PANEL - TYPE 2	SQ FT	19.5
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	20.0
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	120.0
HANDHOLE	EA CH	1
UNIT DUCT, 600V, 5-1C NO.2, 1/C NO.4 GROUND, (XLP-TYPE USE), 2" DIA. POLYETHYLENE	FOOT	6
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EA CH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	771.0
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	857.5
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1,609.5
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1,804.0
ELECTRIC CABLE IN CONDUIT, COMMUNICATION NO. 16 3 PAIR	FOOT	928.0
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	955.5
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EA CH	1
STEEL MAST ARM ASSEMBLY AND POLE, 42 FT.	EA CH	1
STEEL MAST ARM ASSEMBLY AND POLE, 72 FT.	EA CH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 32 FT.	EA CH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 46 FT.	EA CH	1
CONCRETE FOUNDATION, TYPE A	FOOT	4.0
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	37.0
CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	25.0
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EA CH	6
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EA CH	4
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EA CH	4
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EA CH	4
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORWED PLASTIC	EA CH	4
TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EA CH	6
PEDESTRIAN PUSH-BUTTON	EA CH	4
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EA CH	1
RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT	EA CH	1
MODIFY EXISTING CONTROLLER	EACH	2
REVIOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EA CH	1
REBUILD EXISTING HANDHOLE	EA CH	5
REWOVE EXISTING HANDHOLE	EA CH	1
REWOVE EXISTING CONCRETE FOUNDATION	EA CH	5
CONDUIT SPLICE	EA CH	1
VIDEO DETECTION SYSTEM COMPLETE	EA CH	1
TEMPORARY TRAFFIC SIGNAL TIMING	EA CH	1

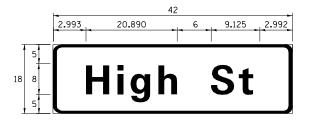
TS SHT NO. 13

HRGreen.com

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	USER NAME = jstrzal	DESIGNED	-	JCH	REVISED	- /	2	6/7/23
Irm		DRAWN	-	JCH	REVISED			_
	PLOT SCALE = 40.0000 / in.	CHECKED	-	JJS	REVISED	-		
	PLOT DATE = 6/7/2023	DATE	-		REVISED	-		

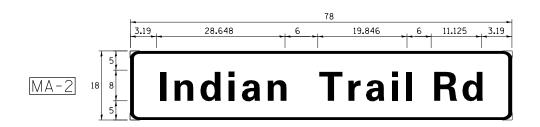
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

MAST ARM MOUNTED STREET NAME SIGNS	F.A.U. RTE	SECTION	COUNTY	TOTAL SHEETS
AND SCHEDULE OF QUANTITIES	1503	06-00260-02-PV	KANE	227
INDIAN TRAIL ROAD AT MITCHELL ROAD			CONTRACT	Г NO. 6
SHEET 17 OF 33 SHEETS STA. TO STA.		TILLINOIS FED A	ID PROJECT	



DESIGN	AREA	SIGN PANEL	SHEETING	QTY.
SERIES	(SQ FT)	TYPE	TYPE	REQUIRED
D	5. 25	1	ZZ	

SHALL BE MOUNTED ON THE MAST ARMS IN THE NORTHWEST AND SOUTHEAST CORNERS.



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL	SHEETING	QTY. REQUIRED
SENTES	(30 -17	TIFE	1111	KEGOIKED
D	9.75	2	ZZ	2

SHALL BE MOUNTED ON THE MAST ARM IN SOUTHWEST AND NORTHEAST CORNERS.

#### SCHEDULE OF QUANTITIES

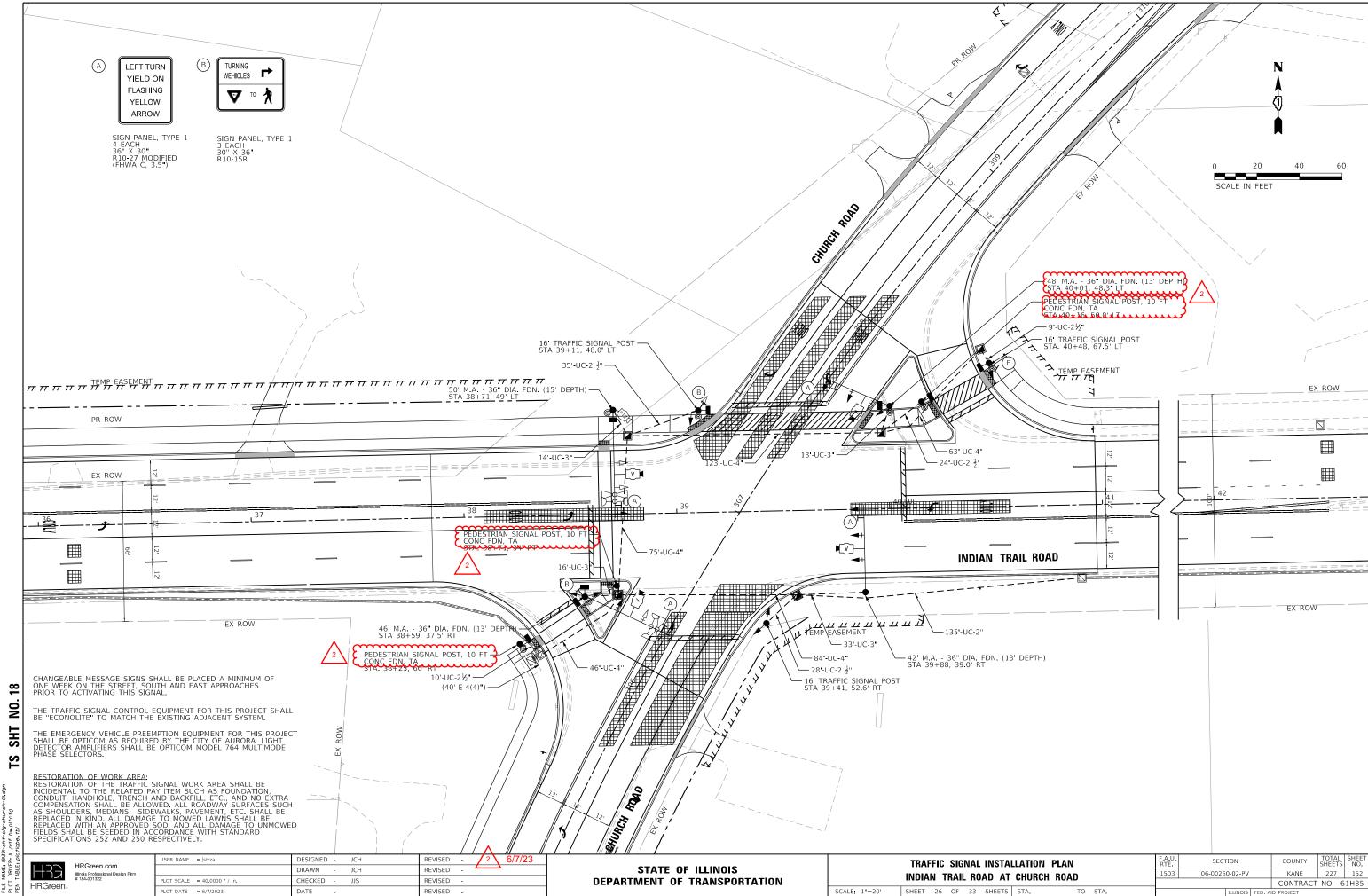


ITEM	UNIT	TOTAL
SIGN PANEL - TYPE 1	SQ FT	63.0
SIGN PANEL - TYPE2	SQ FT	19.5
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	27.0
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	59.0
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	86.0
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	326.0
HA NDHOLE	EACH	3
DOUBLE HANDHOLE	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	732.0
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1,421.
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1,829.
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1,855.
ELECTRIC CABLE IN CONDUIT, COMMUNICATION NO. 16 3 PAIR	FOOT	850.0
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	26.0
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	1,470.
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	3
STEEL MAST ARM ASSEMBLY AND POLE, 34 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 36 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 40 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 50 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	20.0
CONCRETE FOUNDATION, TYPE C	FOOT	4.0
CONCRETE FOUNDATION, TY PE E 36-INCH DIAMETER	FOOT	50.0
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	6
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	4
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	6
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	4
TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	6
LIGHT DETECTOR	EACH	2
LIGHT DETECTOR AMPLIFIER	EACH	1
PEDESTRIAN PUSH-BUTTON	EACH	6
ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED	FOOT	304.5
ETHERNET SWITCH	EACH	1
FULL-ACTUATED CONTROLLER AND TY PE SUPER P CABINET (SPECIAL)	EACH	1
CAT. 6 ETHERNET CABLE	FOOT	262.5
SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
PEDESTRIAN SIGNAL POST, 10 FT.	EACH	1
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
VIDEO DETECTION SYSTEM COMPLETE	EACH	1
CONDUIT SPLICE	EACH	1
INTERSECTION VIDEO TRAFFIC MONITORING SYSTEM WITH PTZ CAMERA	EACH	1

			$^{\prime}$	
USER NAME = jstrzal	DESIGNED - JCH	REVISED -	2	6/7/23
	DRAWN - JCH	REVISED -		7
PLOT SCALE = 40.0000 ' / in.	CHECKED - JJS	REVISED -		
PLOT DATE = 6/7/2023	DATE -	REVISED -		

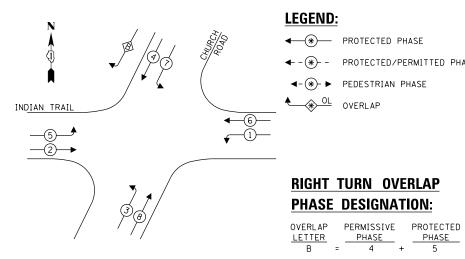
SCALE:

M							AME SIGNS	;	F.A.U. RTE	SEC <sup>-</sup>	ΓΙΟΝ		COUNTY	TOTAL SHEETS	SHEET NO.
					LE OF				1503	06-0026	0-02-PV		KANE	227	146
_	INDI	AN	IKA	IL K	UAU AI	HIGH	STREET						CONTRACT	NO. 6	1H85
	SHEET	20	OF	33	SHEETS	STA.	TO	STA.			ILLINOIS	FED. A	ID PROJECT		



HRG PROJECT NO. 1939/ HRG PROJ. CONTACT: FILE NAME. 1939'-sht'-sig-church-0.dg

#### **EXISTING CONTROLLER SEQUENCE**



#### **LEGEND**:

**◆ \* PROTECTED PHASE** 

← -(\*)- - PROTECTED/PERMITTED PHASE ◆- \*- PEDESTRIAN PHASE

♦ OL OVERLAP

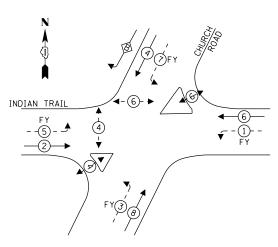


# 33.696 6 11.128 1,588 Church Rd

DESIGN	AREA	SIGN PANEL	SHEETING	QTY.
SERIES	(SQ FT)	TYPE	TYPE	REQUIRED
D	6.75	1	ZZ	2

SHALL BE MOUNTED ON THE MAST ARMS IN THE NORTHWEST AND SOUTHEAST CORNERS.

## PROPOSED CONTROLLER SEQUENCE



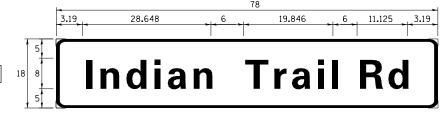
#### LEGEND:

**★**PROTECTED PHASE

← -(\*)- - PROTECTED/PERMITTED PHASE

√-(\*)- ► PEDESTRIAN PHASE OL OVERLAP

MA-2



	DESIGN	AREA	SIGN PANEL	SHEETING	QTY.
	SERIES	(SQ FT)	TYPE	TYPE	REQUIRED
Ī	D	9. 75	2	ZZ	2

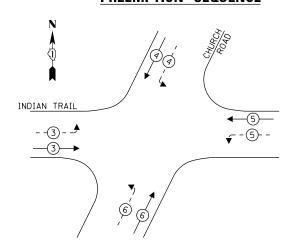
SHALL BE MOUNTED ON THE MAST ARM IN SOUTHWEST AND NORTHEAST CORNERS.

#### **SCHEDULE OF QUANTITIES**

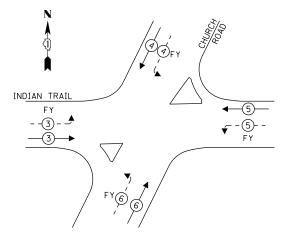


ITEM	UNIT	TOTAL
SIGN PANEL - TYPE 1	SQ FT	66.0
SIGN PANEL - TYPE 2	SQ FT	19.5
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FCOT	135.0
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FCOT	106.0
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FCOT	76.0
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FCOT	391.0
HANDHOLE	EACH	5
UNIT DUCT, 600V, 5-1C NO.2, 1/C NO.4 GROUND, (XLP-TYPE USE), 2" DIA. POLYETHYLENE	FOOT	12
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FCOT	1,636.5
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FCOT	2,142.5
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	2,539.0
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FCOT	2,232.0
ELECTRIC CABLE IN CONDUIT, COMMUNICATION NO. 16 3 PAIR	FCOT	980.0
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FCOT	2,110.0
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	3
STEEL MAST ARM ASSEMBLY AND POLE, 42 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 46 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 48 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 50 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	24.0
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	54.0
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	3
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	3
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	1
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	5
TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	6
PEDESTRIAN PUSH-BUTTON	EACH	8
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
WODIFY EXISTING CONTROLLER	EACH	1
REWOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REBUILD EXISTING HANDHOLE	EACH	1
REWOVE EXISTING HANDHOLE	EACH	8
REWOVE EXISTING CONCRETE FOUNDATION	EACH	6
ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED	FCOT	400.0
CAT. 6 ETHERNET CABLE	FCOT	190.5
PEDESTRIAN SIGNAL POST, 10 FT.	EACH	3
VIDEO DETECTION SY STEM COMPLETE	EACH	1
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1

### **EXISTING EMERGENCY VEHICLE** PREEMPTION SEQUENCE



## PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



HRGreen.	HRGreen.com Illinois Professional Design Firm # 184-001322

**TS SHT NO. 20** 

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SER NAME = jstrzal	DESIGNED - JCH	REVISED -	2	6/7/23
	DRAWN - JCH	REVISED -		7
OT SCALE = 40.0000 ' / in.	CHECKED - JJS	REVISED -		
OT DATE = 6/7/2023	DATE -	REVISED -		

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

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	F.A.U. RTE	SECT	ΓΙΟΝ	COUNTY	TOTAL SHEETS	SHEET NO.	
	1503	06-00260-02-PV			KANE	227	154
				CONTRACT	NO. 6	1H85	
ILLINOIS FED. AID PROJECT							