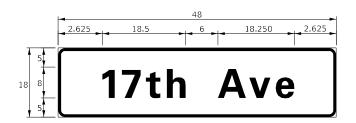
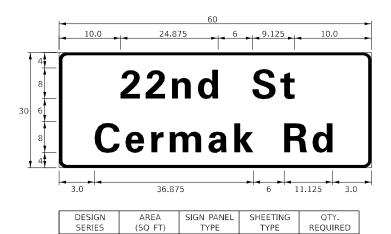


SIGN PANEL - TYPE 1 OR TYPE 2

ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE



DESIGN	AREA	SIGN PANEL	SHEETING	QTY.
SERIES	(SQ FT)	TYPE	TYPE	REQUIRED
D	6.0	1	ZZ	2



QTY. REQUIRED

ZZ

NOTE: FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION PLEASE SEE DISTRICT ONE MAST ARM MOUNTED STREET NAME SIGNS DETAIL.

AREA (SQ FT) 12.5

DESIGN SERIES

D

SCHEDULE OF QUANTITIES

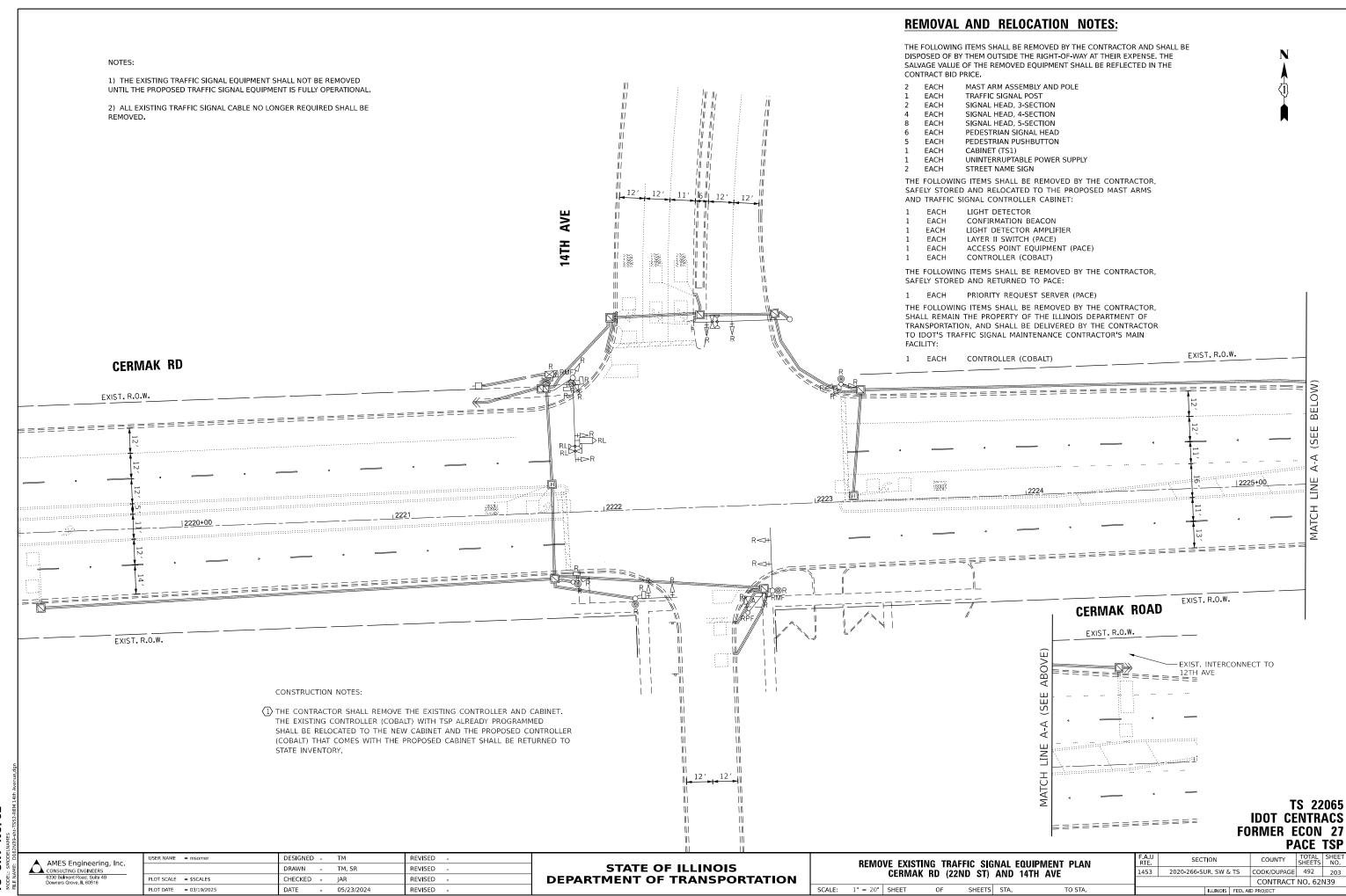
ITEM DESCRIPTION	UNITS	TOTAL QTY.
SIGN PANEL - TYPE 1	SQ FT	12
SIGN PANEL - TYPE 2	SQ FT	25
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	67
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	66
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	277
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1188
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1081
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1882
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1883
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	1406
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	40
STEEL MAST ARM ASSEMBLY AND POLE, 42 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 54 FT.	EACH	2
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 46 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	4
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	56
DRILL EXISTING HANDHOLE	EACH	7
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	8
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	8
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	8
PEDESTRIAN SIGNAL HEAD, L.E.D., 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	16
RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	2
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	2752
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REBUILD EXISTING HANDHOLE	EACH	2
REMOVE EXISTING CONCRETE FOUNDATION	EACH	4
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	356
OUTDOOR RATED NETWORK CABLE	FOOT	355
SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
REMOTE CONTROLLED VIDEO SYSTEM	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
PEDESTRIAN SIGNAL POST, 10 FT.	EACH	4
PEDESTRIAN SIGNAL POST, 5 FT.	EACH	2
FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	1
REMOVE AND REPLACE BATTERIES FOR UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8
CONCRETE FOUNDATION, TYPE A, 12-INCH DIAMETER	FOOT	24
LED SIGNAL FACE, LENS COVER	EACH	24
CENTRACS LICENSE EXPANSION	EACH	1
FIBER OPTIC INTERCONNECT CENTER, 48 PORT	EACH	1

* - 100% COST TO THE VILLAGE OF NORTH RIVERSIDE

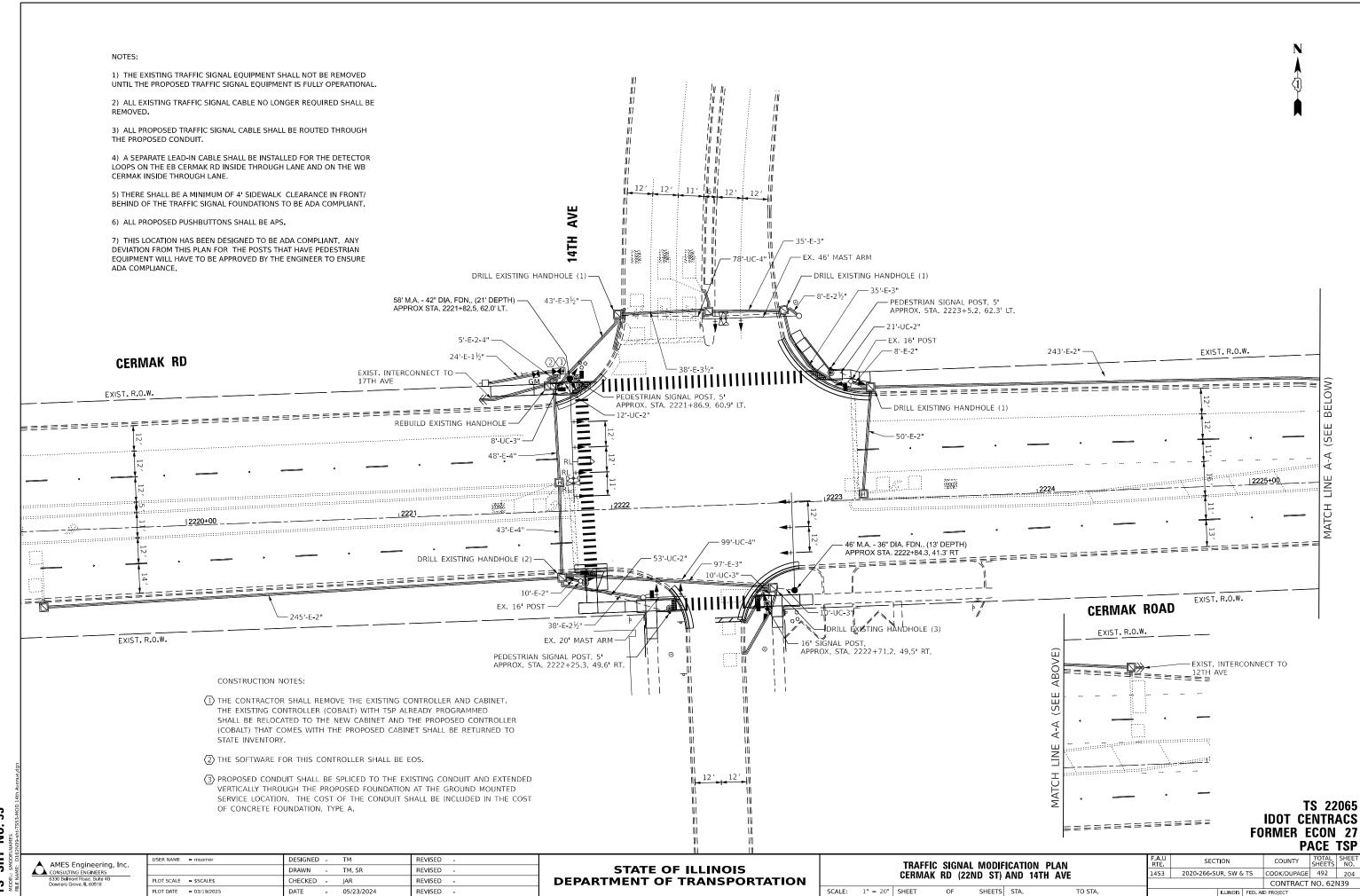
TS 3700 **IDOT CENTRACS** FORMER ECON 27

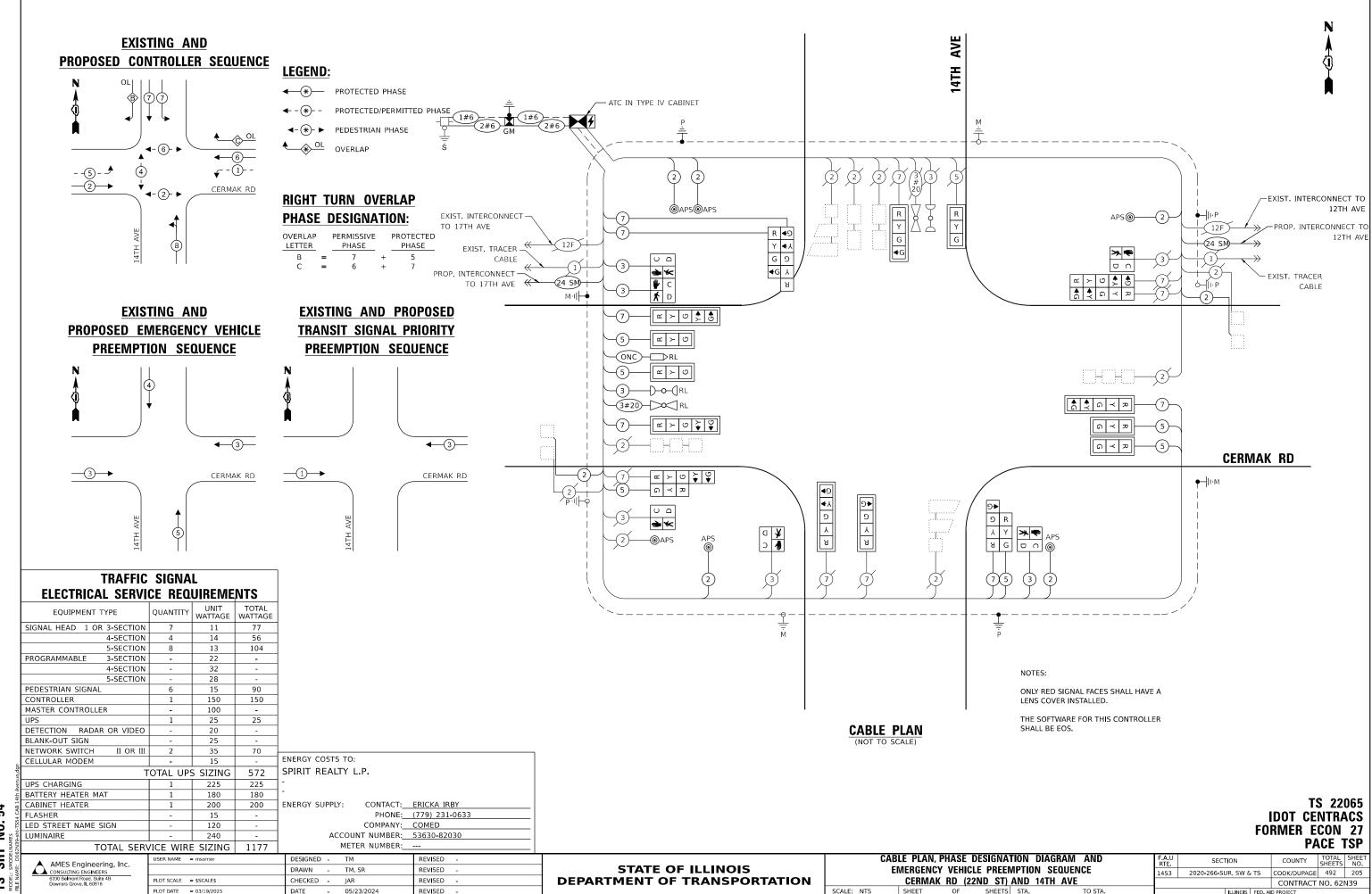
NO. 51 SHT AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Belmont Road, Suite 4B
Downers Grove, IL 60516

USER NAME = msomer	DESIGNED - TM	REVISED -
	DRAWN - TM, SR	REVISED -
PLOT SCALE = \$SCALE\$	CHECKED - JAR	REVISED -
PLOT DATE = 03/19/2025	DATE - 05/23/2024	REVISED -



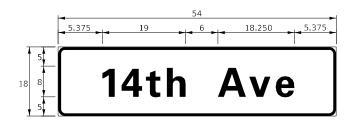
TS SHT NO. 52



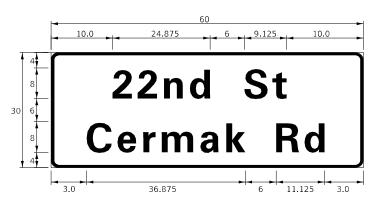


SIGN PANEL - TYPE 1 OR TYPE 2

ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE



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



DESIGN	AREA	SIGN PANEL	SHEETING	QTY.
SERIES	(SQ FT)	TYPE	TYPE	REQUIRED
D	12.5	2	ZZ	

NOTE: FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION PLEASE SEE DISTRICT ONE MAST ARM MOUNTED STREET NAME SIGNS DETAIL.

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
SIGN PANEL - TYPE 1	SQ FT	14
SIGN PANEL - TYPE 2	SQ FT	25
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	86
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	28
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	177
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	738
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	427
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1164
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	880
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	824
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	40
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	819
TRAFFIC SIGNAL POST, 16 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 46 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 58 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	4
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	13
CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	21
DRILL EXISTING HANDHOLE	EACH	7
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	5
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	4
PEDESTRIAN SIGNAL HEAD, L.E.D., 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	6
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	11
INDUCTIVE LOOP DETECTOR	EACH	2
RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	1
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	1580
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1360
REBUILD EXISTING HANDHOLE	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	3
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	77
<u> </u>	FOOT	75
OUTDOOR RATED NETWORK CABLE SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
·	EACH	
LAYER II (DATALINK) SWITCH		1
UPGRADE EXISTING CONTROLLER TO NTCIP SPECIAL	EACH	1
PEDESTRIAN SIGNAL POST, 5 FT.	EACH	
ADVANCED TRANSPORTATION CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
UNINTERRUPTABLE POWER SUPPLY AND CABINET, SPECIAL	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	6
CONCRETE FOUNDATION, TYPE A, 12-INCH DIAMETER	FOOT	12
LED SIGNAL FACE, LENS COVER	EACH	19
CENTRACS LICENSE EXPANSION	EACH	1
FIBER OPTIC INTERCONNECT CENTER, 48 PORT	EACH	1

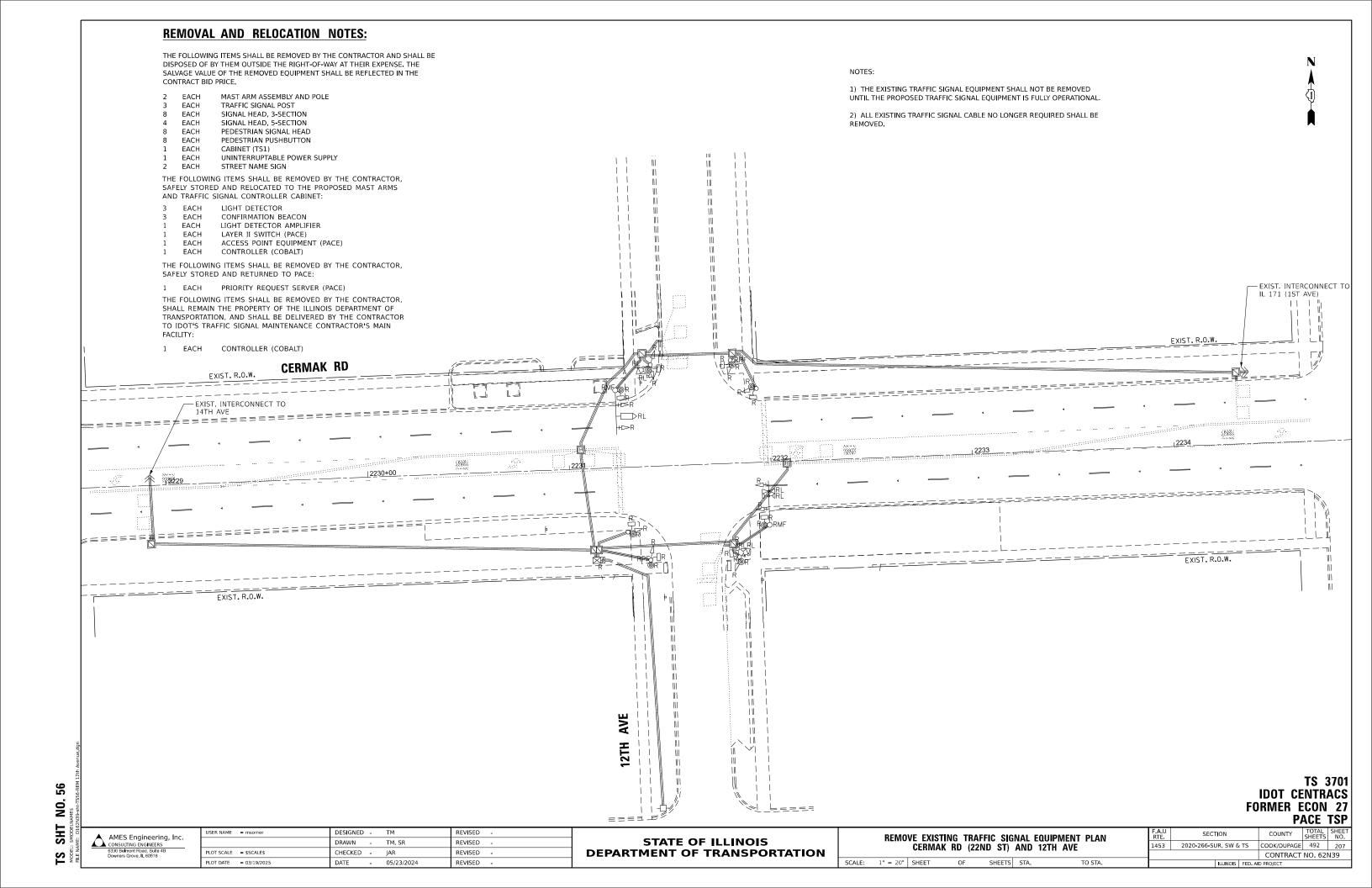
* - 100% COST TO VILLAGE OF RIVERSIDE

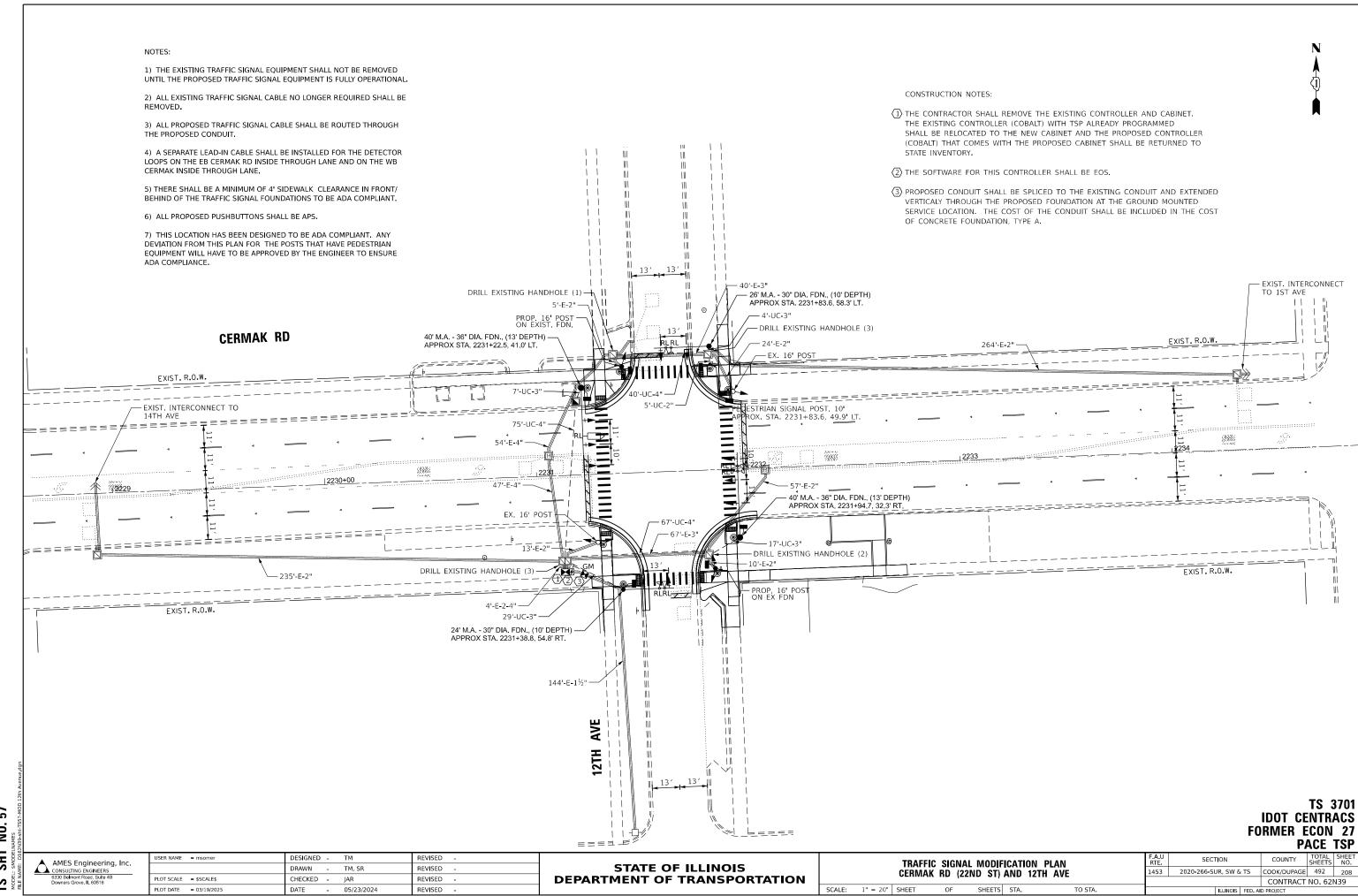
SCALE: NTS

TS 22065
IDOT CENTRACS
FORMER ECON 27
PACE TSP

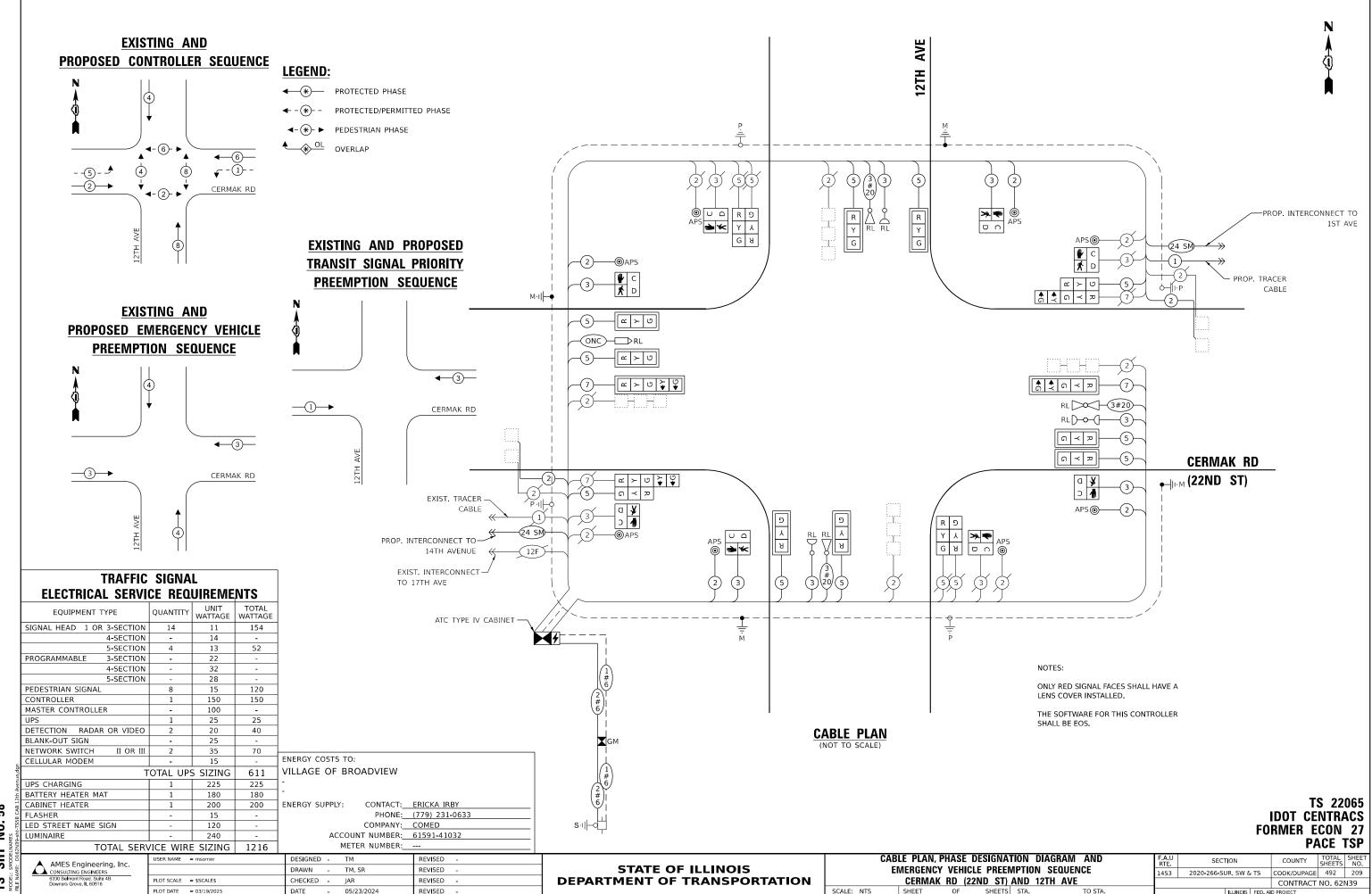
AMES Engineering, Inc. consulting engineers 6330 Belmont Road, Sulle 48 Downers Grove, It 805016

USER NAME = msomer	DESIGNED -	TM	REVISED -
	DRAWN -	TM, SR	REVISED -
PLOT SCALE = \$SCALE\$	CHECKED -	JAR	REVISED -
PLOT DATE = 03/19/2025	DATE -	05/23/2024	REVISED -



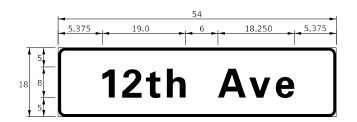


57 S. SHT

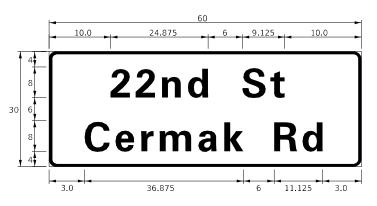


SIGN PANEL - TYPE 1 OR TYPE 2

ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE



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



DESIGN	AREA	SIGN PANEL	SHEETING	QTY.
SERIES	(SQ FT)	TYPE	TYPE	REQUIRED
D	12.5	2	ZZ	2

NOTE: FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION PLEASE SEE DISTRICT ONE MAST ARM MOUNTED STREET NAME SIGNS DETAIL.

SCHEDULE OF QUANTITIES

SIGN PANEL - TYPE 1 SIGN PANEL - TYPE 2 UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA. UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA. UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA. HANDHOLE MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION ELECTRIC CABLE IN CONDUIT, SIGNAL NO, 14 2C ELECTRIC CABLE IN CONDUIT, SIGNAL NO, 14 3C ELECTRIC CABLE IN CONDUIT, SIGNAL NO, 14 5C ELECTRIC CABLE IN CONDUIT, SIGNAL NO, 14 7C ELECTRIC CABLE IN CONDUIT, SERVICE, NO, 6 2C ELECTRIC CABLE IN CONDUIT, SERVICE, NO, 20 3/C ELECTRIC CABLE IN CONDUIT, SERVICE, NO, 20 3/C	SQ FT SQ FT FOOT FOOT EACH EACH FOOT FOOT FOOT FOOT FOOT FOOT FOOT FOO	14 25 5 5 77 182 1 1 495 1004 1527 344 716 40 392 2 1 1
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA. UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA. UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA. HANDHOLE MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C TRAFFIC SIGNAL POST, 16 FT. STEEL MAST ARM ASSEMBLY AND POLE, 24 FT. STEEL MAST ARM ASSEMBLY AND POLE, 26 FT. STEEL MAST ARM ASSEMBLY AND POLE, 40 FT. CONCRETE FOUNDATION, TYPE A CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER DRILL EXISTING HANDHOLE SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC INDUCTIVE LOOP DETECTOR RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT REMOVE ELECTRIC CABLE FROM CONDUIT REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	FOOT FOOT FOOT FOOT FOOT FOOT FOOT FOOT	5 57 182 1 1 495 1004 1527 344 716 40 392 2 1 1
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA. UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA. HANDHOLE MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 7C TRAFFIC SIGNAL POST, 16 FT. STEEL MAST ARM ASSEMBLY AND POLE, 24 FT. STEEL MAST ARM ASSEMBLY AND POLE, 26 FT. STEEL MAST ARM ASSEMBLY AND POLE, 40 FT. CONCRETE FOUNDATION, TYPE A CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER DRILL EXISTING HANDHOLE SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED PEDESTRIAN SIGNAL HEAD, L.E.D., 1-FACE, BRACKET MOUNTED PEDESTRIAN SIGNAL HEAD, L.E.D., 1-FACE, BRACKET MOUNTED INDUCTIVE LOOP DETECTOR RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	FOOT FOOT FOOT FOOT FOOT FOOT FOOT FOOT	57 182 1 1 495 1004 1527 344 716 40 392 2 1 1
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA. HANDHOLE HANDHOLE BLECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR ELECTRIC CABLE IN CONDUIT, EAD-IN, NO. 14 1 PAIR ELECTRIC CABLE IN CONDUIT, EAD-IN, NO. 14 1 PAIR ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 7C ELECTRIC CABLE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT REMOVE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	FOOT EACH FOOT FOOT FOOT FOOT FOOT EACH EACH EACH EACH FOOT FOOT FOOT FOOT FOOT FOOT FOOT FOO	182 1 1 495 1004 1527 344 716 40 392 2 1
HANDHOLE MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C ELECTRIC CABLE IN CONDUIT, EREVICE, NO. 6 2C ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C TRAFFIC SIGNAL POST, 16 FT. STEEL MAST ARM ASSEMBLY AND POLE, 24 FT. STEEL MAST ARM ASSEMBLY AND POLE, 26 FT. STEEL MAST ARM ASSEMBLY AND POLE, 40 FT. CONCRETE FOUNDATION, TYPE A CONCRETE FOUNDATION, TYPE A CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER DRILL EXISTING HANDHOLE SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED PEDESTRIAN SIGNAL HEAD, L.E.D., 1-FACE, BRACKET MOUNTED INDUCTIVE LOOP DETECTOR RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH EACH FOOT FOOT FOOT FOOT FOOT FOOT FOOT EACH EACH EACH EACH FOOT FOOT FOOT FOOT FOOT FOOT FOOT FOO	1 1 495 1004 1527 344 716 40 392 2 1 1
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C TRAFFIC SIGNAL POST, 16 FT. STEEL MAST ARM ASSEMBLY AND POLE, 24 FT. STEEL MAST ARM ASSEMBLY AND POLE, 26 FT. STEEL MAST ARM ASSEMBLY AND POLE, 40 FT. CONCRETE FOUNDATION, TYPE A CONCRETE FOUNDATION, TYPE B 3G-INCH DIAMETER CONCRETE FOUNDATION, TYPE B 3G-INCH DIAMETER DRILL EXISTING HANDHOLE SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED SIGNAL HEAD, LED, 1-FACE, S-SECTION, BRACKET MOUNTED SIGN	EACH FOOT FOOT FOOT FOOT FOOT FOOT EACH EACH EACH EACH FOOT FOOT FOOT FOOT FOOT FOOT FOOT FOO	1 495 1004 1527 344 716 40 392 2 1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR ELECTRIC CABLE IN CONDUIT, EAD-IN, NO. 14 1 PAIR ELECTRIC CABLE IN CONDUIT, EAD-IN, NO. 16 2C ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C TRAFFIC SIGNAL POST, 16 FT. STEEL MAST ARM ASSEMBLY AND POLE, 24 FT. STEEL MAST ARM ASSEMBLY AND POLE, 26 FT. STEEL MAST ARM ASSEMBLY AND POLE, 40 FT. CONCRETE FOUNDATION, TYPE A 30-INCH DIAMETER CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER DRILL EXISTING HANDHOLE SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED PEDESTRIAN SIGNAL HEAD, LE.D., 1-FACE, BRACKET MOUNTED INDUCTIVE LOOP DETECTOR RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	FOOT FOOT FOOT FOOT FOOT FOOT EACH EACH EACH FOOT FOOT FOOT FOOT FOOT FOOT FOOT FOO	495 1004 1527 344 716 40 392 2 1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C TRAFFIC SIGNAL POST, 16 FT. STEEL MAST ARM ASSEMBLY AND POLE, 24 FT. STEEL MAST ARM ASSEMBLY AND POLE, 26 FT. STEEL MAST ARM ASSEMBLY AND POLE, 40 FT. CONCRETE FOUNDATION, TYPE A CONCRETE FOUNDATION, TYPE A CONCRETE FOUNDATION, TYPE B 36-INCH DIAMETER DRILL EXISTING HANDHOLE SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC INDUCTIVE LOOP DETECTOR RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVE ELECTRIC CABLE FROM CONDUIT REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	FOOT FOOT FOOT FOOT EACH EACH EACH FOOT FOOT FOOT FOOT FOOT FOOT FOOT FOO	1004 1527 344 716 40 392 2 1 1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C TRAFFIC SIGNAL POST, 16 FT. STEEL MAST ARM ASSEMBLY AND POLE, 24 FT. STEEL MAST ARM ASSEMBLY AND POLE, 26 FT. STEEL MAST ARM ASSEMBLY AND POLE, 40 FT. CONCRETE FOUNDATION, TYPE A 30-INCH DIAMETER CONCRETE FOUNDATION, TYPE B 30-INCH DIAMETER CONCRETE FOUNDATION, TYPE B 36-INCH DIAMETER DRILL EXISTING HANDHOLE SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED PEDESTRIAN SIGNAL HEAD, L.E.D., 1-FACE, BRACKET MOUNTED TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC INDUCTIVE LOOP DETECTOR RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	FOOT FOOT FOOT EACH EACH EACH FOOT FOOT FOOT FOOT FOOT FOOT FOOT	1527 344 716 40 392 2 1 1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C TRAFFIC SIGNAL POST, 16 FT. STEEL MAST ARM ASSEMBLY AND POLE, 24 FT. STEEL MAST ARM ASSEMBLY AND POLE, 26 FT. STEEL MAST ARM ASSEMBLY AND POLE, 40 FT. CONCRETE FOUNDATION, TYPE A CONCRETE FOUNDATION, TYPE A CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER DRILL EXISTING HANDHOLE SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED PEDESTRIAN SIGNAL HEAD, L.E.D., 1-FACE, BRACKET MOUNTED TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC INDUCTIVE LOOP DETECTOR RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	FOOT FOOT FOOT EACH EACH EACH FOOT FOOT FOOT FOOT	344 716 40 392 2 1 1 2
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C TRAFFIC SIGNAL POST, 16 FT. STEEL MAST ARM ASSEMBLY AND POLE, 24 FT. STEEL MAST ARM ASSEMBLY AND POLE, 26 FT. STEEL MAST ARM ASSEMBLY AND POLE, 40 FT. CONCRETE FOUNDATION, TYPE A CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER DRILL EXISTING HANDHOLE SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED PEDESTRIAN SIGNAL HEAD, L.E.D., 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC INDUCTIVE LOOP DETECTOR RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	FOOT FOOT EACH EACH EACH EACH FOOT FOOT FOOT	716 40 392 2 1 1 2
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C TRAFFIC SIGNAL POST, 16 FT. STEEL MAST ARM ASSEMBLY AND POLE, 24 FT. STEEL MAST ARM ASSEMBLY AND POLE, 26 FT. STEEL MAST ARM ASSEMBLY AND POLE, 40 FT. CONCRETE FOUNDATION, TYPE A CONCRETE FOUNDATION, TYPE A CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER DRILL EXISTING HANDHOLE SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED PEDESTRIAN SIGNAL HEAD, L.E.D., 1-FACE, BRACKET MOUNTED WHEN THE SIGNAL HEAD, L.E.D., 1-FACE, BRACKET MOUNTED PEDESTRIAN SIGNAL HEAD, L.E.D., 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC INDUCTIVE LOOP DETECTOR RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	FOOT FOOT EACH EACH EACH EACH FOOT FOOT	40 392 2 1 1 2
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C IRAFFIC SIGNAL POST, 16 FT. STEEL MAST ARM ASSEMBLY AND POLE, 24 FT. STEEL MAST ARM ASSEMBLY AND POLE, 26 FT. STEEL MAST ARM ASSEMBLY AND POLE, 40 FT. CONCRETE FOUNDATION, TYPE A CONCRETE FOUNDATION, TYPE B 30-INCH DIAMETER CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER CONCRETE FOUNDATION, TYPE B 36-INCH DIAMETER CONCRETE FOUNDATION, MAST ARM MOUNTED SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED PEDESTRIAN SIGNAL HEAD, L.E.D., 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC NDUCTIVE LOOP DETECTOR RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT REMOVE ELECTRIC CABLE FROM CONDUIT REMOVE ELECTRIC CABLE FROM CONDUIT REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	FOOT EACH EACH EACH FOOT FOOT	392 2 1 1 2
TRAFFIC SIGNAL POST, 16 FT. STEEL MAST ARM ASSEMBLY AND POLE, 24 FT. STEEL MAST ARM ASSEMBLY AND POLE, 26 FT. STEEL MAST ARM ASSEMBLY AND POLE, 40 FT. CONCRETE FOUNDATION, TYPE A CONCRETE FOUNDATION, TYPE B 30-INCH DIAMETER CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER DRILL EXISTING HANDHOLE SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED PEDESTRIAN SIGNAL HEAD, L.E.D., 1-FACE, BRACKET MOUNTED TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC INDUCTIVE LOOP DETECTOR RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT REMOVE ELECTRIC CABLE FROM CONDUIT REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH EACH EACH FOOT FOOT	2 1 1 2
STEEL MAST ARM ASSEMBLY AND POLE, 24 FT. STEEL MAST ARM ASSEMBLY AND POLE, 26 FT. STEEL MAST ARM ASSEMBLY AND POLE, 40 FT. CONCRETE FOUNDATION, TYPE A CONCRETE FOUNDATION, TYPE B 30-INCH DIAMETER CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER CRILL EXISTING HANDHOLE SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED PEDESTRIAN SIGNAL HEAD, L.E.D., 1-FACE, BRACKET MOUNTED TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC NDUCTIVE LOOP DETECTOR RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT REMOVE ELECTRIC CABLE FROM CONDUIT REMOVE ELECTRIC CABLE FROM CONDUIT REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH EACH EACH FOOT FOOT	1 1 2
STEEL MAST ARM ASSEMBLY AND POLE, 24 FT. STEEL MAST ARM ASSEMBLY AND POLE, 26 FT. STEEL MAST ARM ASSEMBLY AND POLE, 40 FT. CONCRETE FOUNDATION, TYPE A CONCRETE FOUNDATION, TYPE B 30-INCH DIAMETER CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER CRILL EXISTING HANDHOLE SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED PEDESTRIAN SIGNAL HEAD, L.E.D., 1-FACE, BRACKET MOUNTED TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC NDUCTIVE LOOP DETECTOR RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT REMOVE ELECTRIC CABLE FROM CONDUIT REMOVE ELECTRIC CABLE FROM CONDUIT REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH EACH FOOT FOOT	1 2
STEEL MAST ARM ASSEMBLY AND POLE, 26 FT. STEEL MAST ARM ASSEMBLY AND POLE, 40 FT. CONCRETE FOUNDATION, TYPE A CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER DRILL EXISTING HANDHOLE SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED PEDESTRIAN SIGNAL HEAD, L.E.D., 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC INDUCTIVE LOOP DETECTOR RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT REMOVE ELECTRIC CABLE FROM CONDUIT REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH FOOT FOOT	2
STEEL MAST ARM ASSEMBLY AND POLE, 40 FT. CONCRETE FOUNDATION, TYPE A CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER CRILL EXISTING HANDHOLE SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED PEDESTRIAN SIGNAL HEAD, L.E.D., 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC INDUCTIVE LOOP DETECTOR RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT REMOVE ELECTRIC CABLE FROM CONDUIT REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH FOOT FOOT	2
CONCRETE FOUNDATION, TYPE A CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER DRILL EXISTING HANDHOLE SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED PEDESTRIAN SIGNAL HEAD, L.E.D., 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC INDUCTIVE LOOP DETECTOR RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT REMOVE ELECTRIC CABLE FROM CONDUIT REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	FOOT FOOT	
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER DRILL EXISTING HANDHOLE SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED PEDESTRIAN SIGNAL HEAD, L.E.D., 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC INDUCTIVE LOOP DETECTOR RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT REMOVE ELECTRIC CABLE FROM CONDUIT REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	FOOT	
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER DRILL EXISTING HANDHOLE SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED PEDESTRIAN SIGNAL HEAD, L.E.D., 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC INDUCTIVE LOOP DETECTOR RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT REMOVE ELECTRIC CABLE FROM CONDUIT REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT		20
DRILL EXISTING HANDHOLE SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED PEDESTRIAN SIGNAL HEAD, L.E.D., 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC INDUCTIVE LOOP DETECTOR RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT REMOVE ELECTRIC CABLE FROM CONDUIT REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	26
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED PEDESTRIAN SIGNAL HEAD, L.E.D., 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC INDUCTIVE LOOP DETECTOR RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT REMOVE ELECTRIC CABLE FROM CONDUIT REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT		9
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED PEDESTRIAN SIGNAL HEAD, L.E.D., 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC INDUCTIVE LOOP DETECTOR RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT REMOVE ELECTRIC CABLE FROM CONDUIT REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	8
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED PEDESTRIAN SIGNAL HEAD, L.E.D., 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC INDUCTIVE LOOP DETECTOR RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT REMOVE ELECTRIC CABLE FROM CONDUIT REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	6
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED PEDESTRIAN SIGNAL HEAD, L.E.D., 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC INDUCTIVE LOOP DETECTOR RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT REMOVE ELECTRIC CABLE FROM CONDUIT REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	2
PEDESTRIAN SIGNAL HEAD, L.E.D., 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC INDUCTIVE LOOP DETECTOR RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT REMOVE ELECTRIC CABLE FROM CONDUIT REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	2
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC INDUCTIVE LOOP DETECTOR RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT REMOVE ELECTRIC CABLE FROM CONDUIT REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVE EXISTING CONCRETE FOUNDATION	EACH	8
INDUCTIVE LOOP DETECTOR RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT REMOVE ELECTRIC CABLE FROM CONDUIT REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVE EXISTING CONCRETE FOUNDATION	EACH	10
RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT REMOVE ELECTRIC CABLE FROM CONDUIT REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVE EXISTING CONCRETE FOUNDATION	EACH	6
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT REMOVE ELECTRIC CABLE FROM CONDUIT REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVE EXISTING CONCRETE FOUNDATION	EACH	1
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT REMOVE ELECTRIC CABLE FROM CONDUIT REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVE EXISTING CONCRETE FOUNDATION	EACH	3
REMOVE ELECTRIC CABLE FROM CONDUIT REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVE EXISTING CONCRETE FOUNDATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVE EXISTING CONCRETE FOUNDATION	FOOT	1835
REMOVE EXISTING CONCRETE FOUNDATION	EACH	1000
	EACH	4
EMERGENOT VEHICLE I RIORITT STOTEM LINE GENGOR CABLE, NO. 20 3/6	FOOT	475
SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
OUTDOOR RATED NETWORK CABLE	FOOT	165
LAYER II (DATALINK) SWITCH	EACH	100
UPGRADE EXISTING CONTROLLER TO NTCIP SPECIAL	EACH	1
PEDESTRIAN SIGNAL POST, 10 FT.	EACH	1
ADVANCED TRANSPORTATION CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
JNINTERRUPTABLE POWER SUPPLY AND CABINET, SPECIAL	EACH	1
UNINTERRUPTABLE POWER SUPPLY AND CABINET, SPECIAL ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8
	FOOT	4
CONCRETE FOUNDATION, TYPE A, 12-INCH DIAMETER		
LED SIGNAL FACE, LENS COVER		18
CENTRACS LICENSE EXPANSION FIBER OPTIC INTERCONNECT CENTER. 48 PORT	EACH EACH	1 7

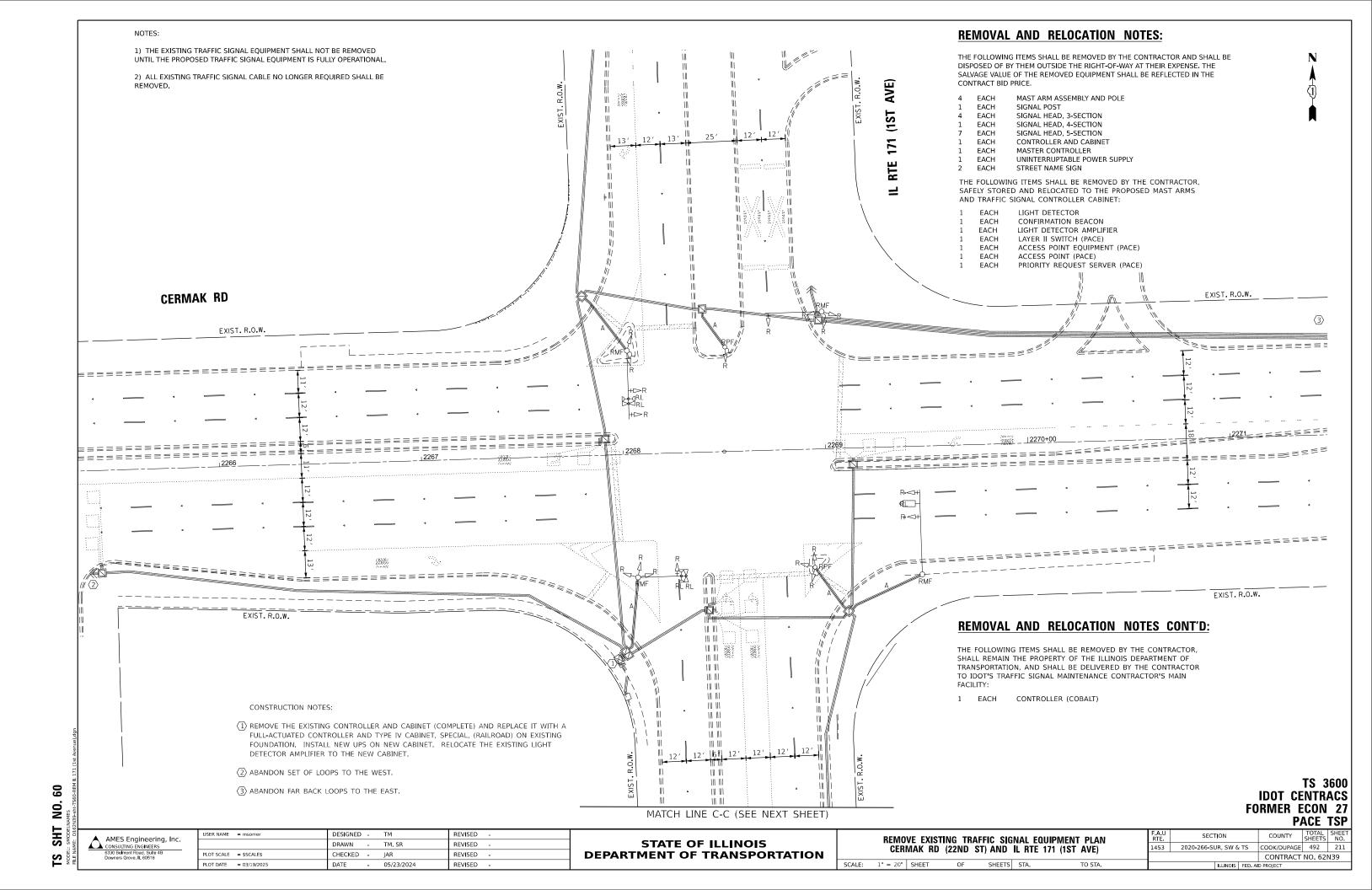
* - 100% COST TO VILLAGE OF BROADVIEW

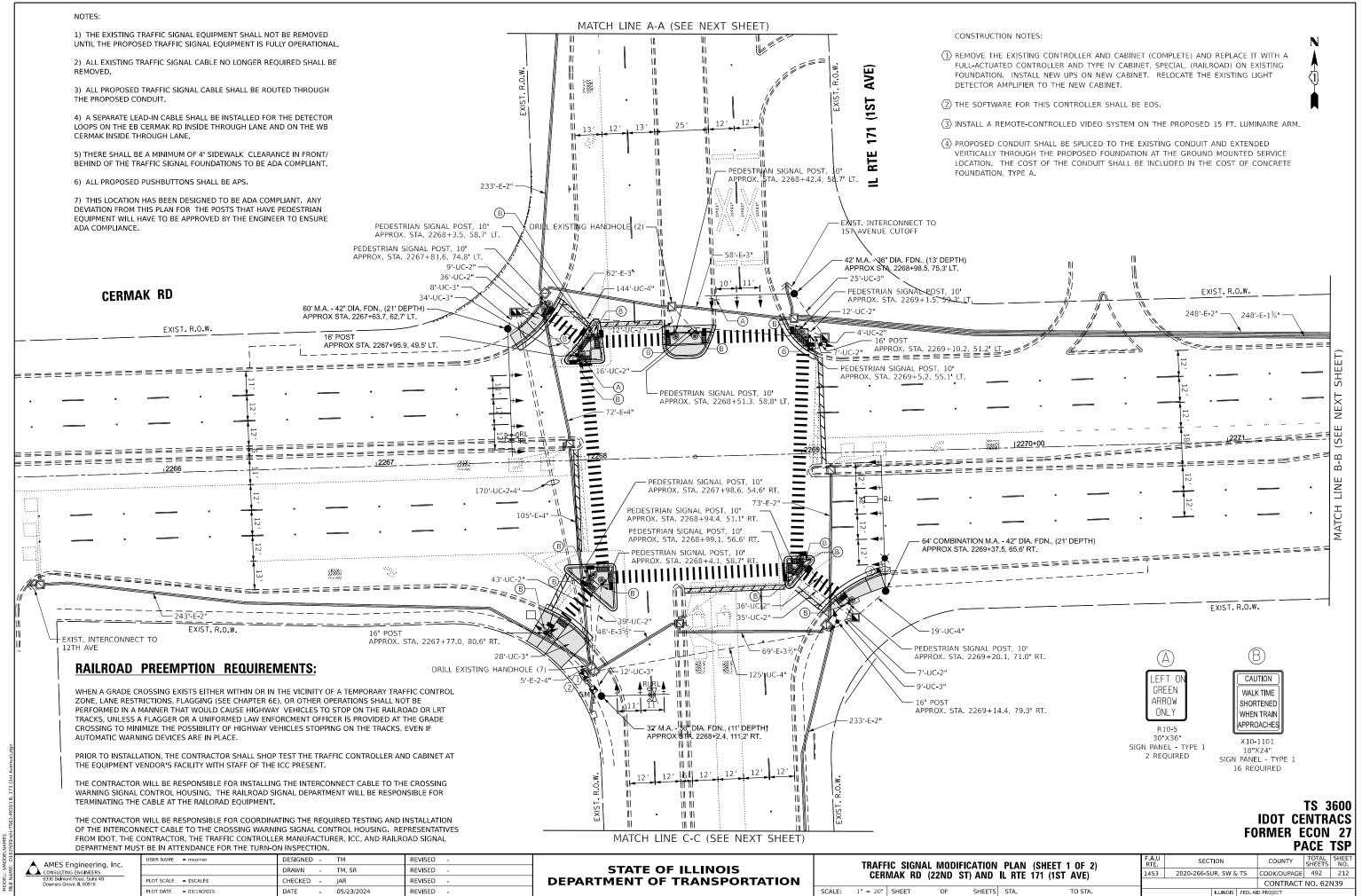
TS 22065
IDOT CENTRACS
FORMER ECON 27
PACE TSP

AMES Engineering, Inc. consulting engineers 6330 Belmont Road, Sulle 48 Downers Grove, It 805016

NO. 59

USER NAME = msomer	DESIGNED - TM	REVISED -
	DRAWN - TM, SR	REVISED -
PLOT SCALE = \$SCALE\$	CHECKED - JAR	REVISED -
PLOT DATE = 04/16/2025	DATE - 05/23/2024	REVISED -





AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Belmont Road, Suite 4B
Downers Grove, IL 60516

DESIGNED - TM REVISED DRAWN - TM, SR REVISED PLOT SCALE = \$SCALE\$ CHECKED - JAR REVISED -PLOT DATE = 03/19/2025 REVISED -DATE - 05/23/2024

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

171 (1ST AVE)

RTE

SECTION COUNTY 1453 2020-266-SUR, SW & TS COOK/DUPAGE 492 213 CONTRACT NO. 62N39

MATCH LINE C-C (SEE PREVIOUS SHEET) 111-111 111 111 111 111 AVE) 111 111 111 111 111 111 111 111 IL RTE 171 (1ST 10.01 111 111 111 111 111 111 111 111 111 111 111 111 111 111 111 111 111 111 - EXIST. INTERCONNECT TO 26TH STREET 111 111 111 111

MATCH LINE A-A (SEE PREVIOUS SHEET)

CERMAK RD -EXIST. INTERCONNECT TO 1ST AVE CUTOFF

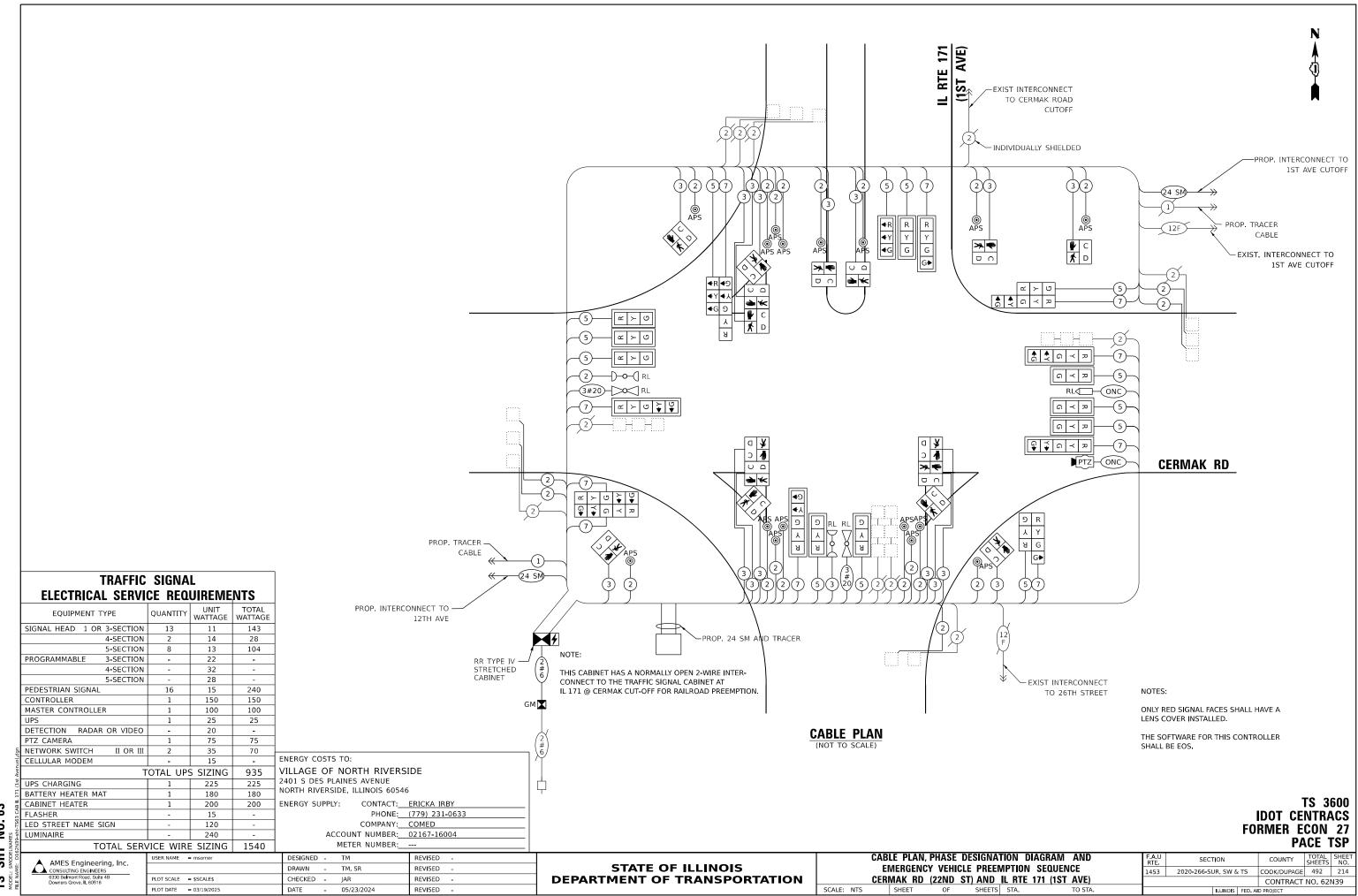
EXIST. R.O.W.

111 111

TRAFFIC SIGNAL MODIFICATION PLAN (SHEET 2 OF 2) CERMAK RD (22ND ST) AND IL RTE 171 (1ST AVE) OF SHEETS STA.

FORMER ECON 27 PACE TSP

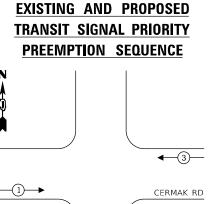
TS 3600 IDOT CENTRACS



S SHT NO. 63

SEQUENCE OF OPERATION

MOVEMENT	5		•	- 1	•	+ •	- ► 6 1	5- 2-		*		← - ← 2 - ←	6 6				OL \$	↑ ↑ 1 3 8 ▼				↑ 4	φŤ		_
PHASE		1 -	+ 5			1 + 6			2 + 5			2 -	+ 6				3 +	+ 8				4 -	+ 8		F L
INTERVAL	1	2	3	4	5	6	7	8	9	10	11	12	13A	13B	14	15	16A	16B	17A	17B	18	19	20A	20B	A S
CHANGE TO PHASE		1+6	2+5	2+6	Φ/	⊕/	2+6	Φ/	Φ/	2+6			4-	+8	θ/	Φ/	4-	+8	2-	+6			1- 2-	+5 +6 +5 +6	Н
CERMAK ROAD EB FAR RIGHT MAST ARM AND NEAR RIGHT SIGNAL	s R	R	R	R	R	R	R	G	G	G	G	G	Y	R	R G →	R G →	R Y →	R	R Y →	R	R	R	R	R	R
CERMAK ROAD EB MID MAST ARM SIGNALS	R	R	R	R	R	R	R	G	G	G	G	G	Υ	R	R	R	R	R	R	R	R	R	R	R	R
CERMAK ROAD EB END MAST ARM AND FAR LEFT SIGNALS		R ∢ -Y	R ∢ -G	R ← Y	R	R	R	G ∢ -G	G ∢ -G	G ∢ Y	G	G	Υ	R	R	R	R	R	R	R	R	R	R	R	R
CERMAK ROAD WE RIGHT MAST ARM SIGNALS	R	R	R	R	G	G	G	R	R	R	G	G	Y	R	R	R	R	R	R	R	R	R	R	R	R
CERMAK ROAD WE END MAST ARM AND FAR LEFT SIGNALS	1	R ← G	R ← Y	R ← Y	G ← G	G ← G	G ← Y	R	R	R	G	G	Y	R	R	R	R	R	R	R	R	R	R	R	R
IL RTE 171 (1ST AVENUE) FAR RIGHT AND NEAR RIGHT SIGNALS	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G G →	G G →	G	G	Υ	R	G	G	Y	R	R
IL RTE 171 (1ST AVENUE) NB MAST ARM SIGNAL	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	G	G	G	Υ	R	G	G	Y	R	R
IL RTE 171 (1ST AVENUE) NB MEDIAN AND FAR LEFT SIGNALS	∢ − R	← R	∢ R	∢ −R	∢ -R	∢ R	∢ R	← R	← R	∢ −R	← R	∢ -R	∢ −R	← R	∢ G	∢ -G	← Y	← R	← Y	∢ −R	∢ −R	∢ −R	← R	◆ R	← R
IL RTE 171 (1ST AVENUE) SB FAR RIGHT AND NEAR RIGHT SIGNALS	R G →	R Y →	R G →	R Y →	R	R	R	R G →	R G→	R Y →	R	R	R	R	R	R	R	R	R	R	G	G	Y	R	R
IL RTE 171 (:1ST AVENUE) SB MAST ARM AND FAR LEFT SIGNALS	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	G	Y	R	R
PEDESTRIAN SIGNALS CROSSING IL RTE 171 ON NORTH SIDE OF CERMAK ROAD	н	н	н	н	*Р	**FH	н	н	н	н	*Р	**FH	н	Н	Н	Н	Н	Н	Н	Н	Н	н	н	н	
PEDESTRIAN SIGNALS CROSSING IL RTE 171 ON SOUTH SIDE OF CERMAK ROAD	н	н	н	н	н	н	н	*Р	**FH	н	*Р	**FH	н	н	Н	Н	Н	Н	Н	Н	н	н	н	н	D A
PEDESTRIAN SIGNALS CROSSING CERMAK ROAD ON EAST SIDE OF IL RTE 171	н	Н	Н	Н	Н	Н	Н	Н	н	н	Н	Н	н	Н	*Р	**FH	Н	Н	Н	Н	*Р	**FH	н	н	R
PEDESTRIAN SIGNALS CROSSING CERMAK ROAD ON WEST SIDE OF IL RTE 171	н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	*Р	**FH	Н	Н	Н	Н	*Р	**FH	Н	н	



- * TO APPEAR ONLY UPON PUSHBUTTON ACTUATION
- ** FLASHING " IS TO TERMINATE AT THE COMPLETION

OF THE PEDESTRIAN INTERVAL CLEARANCE

THIS "OR FLASHING "INTERVAL MAY FINISH TIMING
IN THE BIDIRECTIONAL STRAIGHT THROUGH MOVEMENT IF
THE LEFT ARROW TIME IS NOT SUFFICIENT TO COMPLETE "TIME"
OR FLASHING "INTERVALS

P = ILLUMINATED PERSON = WALK FH = ILLUMINATED FLASHING HAND = FLASHING DON'T WALK

FH = ILLUMINATED FLASHING HAND = FLASHING DON'T WALK H = ILLUMINATED SOLID HAND = DON'T WALK

PHASE 2 AND 6 SHALL BE PLACED ON RECALL.

PHASE 1 ON OMITS PHASE 5.

PHASE 5 ON OMITS PHASE 1.

TS 3600 IDOT CENTRACS FORMER ECON 27 PACE TSP

COUNTY TOTAL SHEET NO.

COOK/DUPAGE 492 215

CONTRACT NO. 62N39

AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Belmont Road, Suite 4B
Downers Grove, IL 60516

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SEQUEN						NAL	PRIORITY		F.A.U RTE	SEC	LION	
			CE OF OP					1	1453	2020-266-SI	JR, SW &	TS
CEF	<u>IMAK RD</u>	(22ND :	ST) AND	IL RTE	171	(1ST	AVE)					
SCALE: NTS	SHEET	OF	SHEETS	STA.			TO STA.				ILLINOIS	FED. A

EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION

PEDESTRIAN SIGNALS CROSSING CERMAK ROAD ON WEST SIDE OF IL RTE 171

EINERGENCY VEHICLE PREEMPTIC) N	2EA	UEN	ILE	UF	UPE	:KA	ווטוי	1																	PREEMPTOR NUMBER 3	PREEMPTOR NUMBER 4	
CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER	1		5		5			8		8		11		11			14			14			18		18			CLEAR TO
EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	1A	1B	1C	1D	1E	1F	1G	1H	1,1	1K	1L	1M	1N	1P	1Q	1R	1S	1T	1U	1V	1W	1X	1Y	1Z	1AA	2	3	NORMAL SEQUENCE
CHANGE TO EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	2 OR 3	1C	2	1E	1F	3	1H	2	1K	1L	3	2	1P	1Q	3	15	1T	2	1V	1W	3	1Y	1Z	2	3			\Diamond
CERMAK ROAD EB FAR RIGHT MAST ARM AND NEAR RIGHT SIGNALS	R	R	R	R	R	R	G	G	G	Y	R	G	G	Y	R	R G →	R G →	R Y →	R G →	R Y →	R	R	R	R	R	G	R	\Diamond
CERMAK ROAD EB MID MAST ARM SIGNALS	R	R	R	R	R	R	G	G	G	Y	R	G	G	Y	R	R	R	R	R	R	R	R	R	R	R	G	R	\Diamond
CERMAK ROAD EB END MAST ARM AND FAR LEFT SIGNALS	R ← Y	R	R	R	R	R	G ∢ -G	G ← Y	G ← G	Y	R	G	G	Y	R	R	R	R	R	R	R	R	R	R	R	G	R	\Diamond
CERMAK ROAD WB RIGHT MAST ARM SIGNALS	R	G	G	G	Υ	R	R	R	R	R	R	G	G	Y	R	R	R	R	R	R	R	R	R	R	R	G	R	\Diamond
CERMAK ROAD WB END MAST ARM AND FAR LEFT SIGNALS	R ← Y	G ← G	G ← Y	G ← G	Υ	R	R	R	R	R	R	G	G	Y	R	R	R	R	R	R	R	R	R	R	R	G	R	\Diamond
IL RTE 171 (1ST AVENUE) NB FAR RIGHT AND NEAR RIGHT SIGNALS	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G G →	Y Y →	R	G G→	G Y →	G	G	Y	R	G	R	G	\Diamond
IL RTE 171 (1ST AVENUE) NB MAST ARM SIGNAL	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	Y	R	G	G	G	G	Y	R	G	R	G	\Diamond
IL RTE 171 (1ST AVENUE) NB MEDIAN AND FAR LEFT SIGNALS	← R	◆ R	← R	← R	← R	← R	← R	◆ R	← R	◆ R	← G	← Y	← R	← G	← Y	◆ R	← R	← R	◆ R	← R	∢ −R	∢ −R	\Diamond					
IL RTE 171 (1ST AVENUE) SB FAR RIGHT AND NEAR RIGHT SIGNALS	R Y →	R	R	R	R	R	R G →	R Y →	R G →	R Y →	R	R	R	R	R	G	Y	R	G	G	G	G	Υ	R	G	R	G	\Diamond
IL RTE 171 (:1ST AVENUE) SB MAST ARM AND FAR LEFT SIGNALS	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	Y	R	G	G	G	G	Y	R	G	R	G	\Diamond
PEDESTRIAN SIGNALS CROSSING IL RTE 171 ON NORTH SIDE OF CERMAK ROAD	н	FH	н	FH	Н	Н	н	н	н	н	Н	FH	FH	н	н	н	н	н	Н	н	н	Н	н	Н	Н	Н	Н	\Diamond
PEDESTRIAN SIGNALS CROSSING IL RTE 171 ON SOUTH SIDE OF CERMAK ROAD	Н	Н	Η	Н	Н	Н	FH	Н	FH	н	Н	FH	FH	н	н	Н	н	Н	Н	н	Ξ	Н	н	Н	Н	Н	Н	\Diamond
PEDESTRIAN SIGNALS CROSSING CERMAK ROAD ON EAST SIDE OF IL RTE 171	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	н	Н	н	Н	FH	Н	Н	FH	н	Н	FH	Н	Н	FH	Н	Н	\Diamond

EMERGENCY VEHICLE SEQUENCE SHALL PROVIDE THE PROPER CLEARANCE INTERVAL TO RESUME THE NORMAL SEQUENCE OF OPERATION OR PROPER CLEARANCE INTERVAL TO DISPLAY A DIFFERENT EMERGENCY INTERVAL AFTER EMERGENCY VEHICLE INTERVAL 2 OR 3 IS TERMINATED.

TS 3600 **IDOT CENTRACS** FORMER ECON 27 PACE TSP

AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Belmont Road, Suite 48
Downers Grove, IL 60516

USER NAME = msomer	DESIGNED - TM	REVISED -
	DRAWN - TM, SR	REVISED -
PLOT SCALE = \$SCALE\$	CHECKED - JAR	REVISED -
PLOT DATE = 03/19/2025	DATE - 05/23/2024	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

					ENCE OF OPERATION 171 (1ST AVE)
SCALE: NTS	SHEET	OF	SHEETS	STA.	TO STA.

RAILROAD PREEMPTION SEQUENCE OF OPERATION

PREEMPTOR PREEMPTOR PREEMPTOR NUMBER 3 NUMBER 4 NUMBER 2

												INCINE	SEK 3	NOME	3EK 4	NUMBER 2											
		5		8		1	11	:	14	1	18																
ON																											
ON												2	2	3	3												
1.	1 1 1	3 1	C 1E)	1E	1F	1G	1H	1.1	1K	1L	1 M	1 N	1P	10	2	3	4	5	6	7	8	9	10	11	12	CLEAR
	`														- 4									10			ТО
E 2	10	2	2 1E		2	1G	2	1 J	2	1L	2	1N	2	1Q	2	3	4	5									NORMAL SEQUENCE
-	R	F	R Y		R	Υ	R	R Y →	R	R	R	Y	R	R	R	R	R	R	G	G	G	Υ	R	R	R	R	\triangle
B F	R	F	Y		R	Υ	R	R	R	R	R	Υ	R	R	R	R	R	R	G	G	G	Y	R	R	R	R	Δ
		F	R Y		R	Υ	R	R	R	R	R	Υ	R	R	R	R	R	R	G ∢ -G	G ← Y	G	Y	R	R	R	R	Δ
VB F	Y	F	R R		R	Υ	R	R	R	R	R	Υ	R	R	R	R	R	R	R	R	G	Y	R	R	R	R	Δ
	l Y	F	R R		R	Υ	R	R	R	R	R	Υ	R	R	R	R	R	R	R	R	G	Y	R	R	R	R	
IB F	R	F	R R		R	R	R	Υ	R	Y	R	R	R	Υ	R	R	R	R	R	R	R	R	R	R	R	R	Δ
IB F	R	F	R		R	R	R	Υ	R	Υ	R	R	R	Υ	R	R	R	R	R	R	R	R	R	R	R	R	
IB ◀	R ←	R 🗲	- R ←	R 🖣	← R	← R	← R	← Y	← R	← R	← R	← R	← R	← R	← R	← R	← R	← R	← R	← R	← R	← R	← R	← G	← Y	← R	\triangle
		F			R	R	R	R	R	G	G	R	R	Υ	R	G	Y	R	R	R	R	R	R	R	R	R	\triangle
В	R	F	R		R	R	R	R	R	G	G	R	R	Υ	R	G	Υ	R	R	R	R	R	R	R	R	R	
H	FH	1 +	н н		Н	FH	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Δ
H	н	H	f FF	1	Н	FH	Н	н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	н	н	Δ
D F	Н	F	н н		Н	Н	Н	FH	Н	FH	Н	н	Н	н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Δ
D F	Н	١,	н н		Н	Н	Н	FH	н	FH	н	н	Н	н	н	Н	Н	Н	Н	Н	Н	Н	Н	н	н	н	
	ION 1/A EE 2 EB R EB R WB R WB R NB H AD H AD	1A 1E 1A 1E 2 10 EB R R EB R FY WB R Y WB R Y WB R Y WB R R H H H AD H H H AD AD	ION 1A 1B 1 CE 2 1C 2 EB R R F EB R R F WB R Y F WB R Y F WB R R F NB R R R R F NB R R R F NB R R R R F NB R R R R F NB R R R R R F NB R R R R R R NB R R R R R NB R R NB R R R NB R R NB R R NB R R R NB R NB R R NB	ION 1A 1B 1C 1E EB 2 1C 2 1E EB R R R Y EB R R R Y WB R Y R R WB R Y R R WB R Y R R WB R R R WB R R R R WB R R WB R R WB R R R WB R WB R WB R R WB R W	1A 1B 1C 1D EE 2 1C 2 1E EB R R R Y EB R R R Y WB R Y R R WB R Y R R WB R R R R WB R R R WB R WB R WB R R WB R	1A 1B 1C 1D 1E EE 2 1C 2 1E 2 EB R R R Y R EB R R R Y R EB R R R Y R WB R Y R R R WB R R R R WB R R R R R WB R WB R R R R WB R WB R R R R WB R WB R WB R R WB	ION 1A	ION 1A	1A 1B 1C 1D 1E 1F 1G 1H EE 2 1C 2 1E 2 1G 2 1J EB R R R Y R Y R R EB R R R R Y R Y R R EB R R R R Y R R Y R R WB R Y R R R R Y R R WB R Y R R R R R Y R R WB R Y R R R R R Y R R WB R Y R R R R R Y R R WB R Y R R R R R Y R R WB R Y R R R R R Y R R WB R Y R R R R R R Y R WB R Y R R R R R R R R WB R R R R R R R R R R WB R R R R R R R R R R WB R R R R R R R R R R SB R R R R R R R R R H H H H H H H H H H	ION 1A 1B 1C 1D 1E 1F 1G 1H 1J EE 2 1C 2 1E 2 1G 2 1J 2 EB R R R R Y R Y R R R EB R R R R Y R Y R R R EB R R R R Y R Y R R R WB R Y R R R Y R R R R WB R Y R R R R Y R R R WB R Y R R R R R R R R R R WB R Y R R R R R R R R R R WB R Y R R R R R R R R R WB R Y R R R R R R R R R WB R Y R R R R R R R R R WB R Y R R R R R R R R R WB R R R R R R R R R R R R NB R R R R R R R R R R R R NB R R R R R R R R R R R R NB R R R R R R R R R R R R NB R R R R R R R R R R R R NB R R R R R R R R R R R R SB R R R R R R R R R R R R H H H H H H H	ION 1A 1B 1C 1D 1E 1F 1G 1H 1J 1K CE 2 1C 2 1E 2 1G 2 1J 2 1L EB R R R Y R Y R <t< td=""><td>1A 1B 1C 1D 1E 1F 1G 1H 1J 1K 1L EE 2 1C 2 1E 2 1G 2 1J 2 1L 2 EB R R R R Y R Y R R R R R R EB R R R R Y R Y R R R R R R EB R R R R R Y R Y R R R R R R EB R R R R R R R R R R R R R R R R R EB R R R R R R R R R R R R R R R R R R WB R Y R R R R R R R R R R R R R R R WB R Y R R R R R R R R R R R R R R R WB R Y R R R R R R R R R R R R R R R WB R R R R R R R R R R R R R R R R R R WB R R R R R R R R R R R R R R R R R R R</td><td>1</td><td>1</td><td>1</td><td>10</td><td>10</td><td> 1</td><td> 1</td><td>10 1 5 8 11 14 18 22 3 11 1 14 18 12 3 11 1 15 18 11 14 18 12 3 11 1 14 18 12 3 11 1 14 18 12 3 11 1 14 18 12 3 11 1 14 18 12 3 11 1 14 18 12 3 11 1 14 18 12 3 11 1 14 18 12 3 11 1 14 18 12 3 11 1 14 18 12 3 12 3 3 14 5 3 15 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1</td><td> 1</td><td> 1</td><td> 1</td><td> 1</td><td> 1</td><td> 1</td><td> 1</td></t<>	1A 1B 1C 1D 1E 1F 1G 1H 1J 1K 1L EE 2 1C 2 1E 2 1G 2 1J 2 1L 2 EB R R R R Y R Y R R R R R R EB R R R R Y R Y R R R R R R EB R R R R R Y R Y R R R R R R EB R R R R R R R R R R R R R R R R R EB R R R R R R R R R R R R R R R R R R WB R Y R R R R R R R R R R R R R R R WB R Y R R R R R R R R R R R R R R R WB R Y R R R R R R R R R R R R R R R WB R R R R R R R R R R R R R R R R R R WB R R R R R R R R R R R R R R R R R R R	1	1	1	10	10	1	1	10 1 5 8 11 14 18 22 3 11 1 14 18 12 3 11 1 15 18 11 14 18 12 3 11 1 14 18 12 3 11 1 14 18 12 3 11 1 14 18 12 3 11 1 14 18 12 3 11 1 14 18 12 3 11 1 14 18 12 3 11 1 14 18 12 3 11 1 14 18 12 3 11 1 14 18 12 3 12 3 3 14 5 3 15 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	1	1	1	1	1	1

ARILROAD PREEMPTION SEQUENCE SHALL PROVIDE THE PROPER CLEARANCE INTERVAL TO RESUME THE NORMAL SEQUENCE OF OPERATIONS OR PROPER CLEARANCE INTERVAL TO DISPLAY AN EMERGENCY VEHICLE INTERVAL (IF APPLICABLE) AFTER RAILROAD PREEMPTION INTERVAL 2 IS TERMINATED.

TS 3600 IDOT CENTRACS FORMER ECON 27 PACE TSP

AMES Engineering, Inc.
6330 Belmont Road, Suite 4B Downers Grove, IL 60516

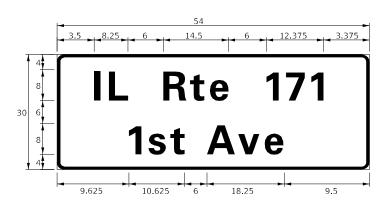
SHT NO. 66

USER NAME = msomer	DESIGNED	-	TM	REVISED -
	DRAWN	-	TM, SR	REVISED -
PLOT SCALE = \$SCALE\$	CHECKED	-	JAR	REVISED -
PLOT DATE = 03/19/2025	DATE	-	05/23/2024	REVISED -

SCALE: NTS

SIGN PANEL – TYPE 1 OR TYPE 2

ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE



DESIGN	AREA	SIGN PANEL	SHEETING	QTY.
SERIES	(SO FT)	TYPE	TYPE	REQUIRED
D	11.25	2	ZZ	2

NOTE: FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION PLEASE SEE DISTRICT ONE MAST ARM MOUNTED STREET NAME SIGNS DETAIL.

SCHEDULE OF QUANTITIES

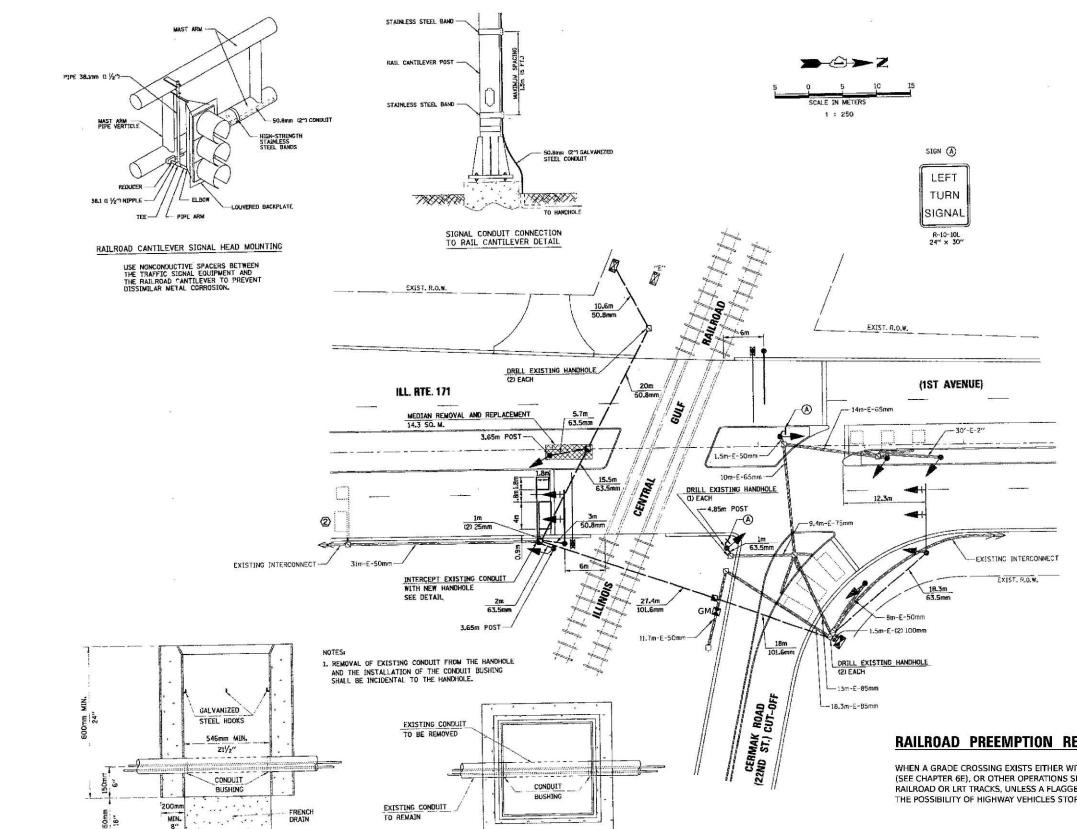
ITEM DESCRIPTION	UNITS	TOTAL QTY.
SIGN PANEL - TYPE 1	SQ FT	63
SIGN PANEL - TYPE 2	SQ FT	23
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	256
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	116
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	628
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
RAILROAD, FULL-ACTUATED CONTROLLER AND TYPE IV STRETCH CABINET, SPECIAL	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	3328
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	3847
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	3361
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	2181
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	2129
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	40
TRAFFIC SIGNAL POST, 16 FT.	EACH	4
STEEL MAST ARM ASSEMBLY AND POLE, 32 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 42 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 60 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 64 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	20
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	24
CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	42
DRILL EXISTING HANDHOLE	EACH	9
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	10
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	3
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	1
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	4
PEDESTRIAN SIGNAL HEAD, L.E.D., 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	16
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	15
INDUCTIVE LOOP DETECTOR	EACH	11
RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	2
· · · · · · · · · · · · · · · · · · ·	EACH	
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	FOOT	1 2200
REMOVE ELECTRIC CABLE FROM CONDUIT	EACH	3362
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT		1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	5
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	375
OUTDOOR RATED NETWORK CABLE	FOOT	440
SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
REMOTE CONTROLLED VIDEO SYSTEM	EACH	1
UPGRADE EXISTING CONTROLLER TO NTCIP SPECIAL	EACH	1
PEDESTRIAN SIGNAL POST, 10 FT.	EACH	11
LAYER III (NETWORK) SWITCH	EACH	1
UNINTERRUPTABLE POWER SUPPLY AND CABINET, SPECIAL	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	16
CONCRETE FOUNDATION, TYPE A, 12-INCH DIAMETER	FOOT	44
LED SIGNAL FACE, LENS COVER	EACH	23
CENTRACS LICENSE EXPANSION	EACH	1
FIBER OPTIC INTERCONNECT CENTER, 48 PORT	EACH	1

^{* - 100%} COST TO VILLAGE OF NORTH RIVERSIDE

TS 3600 IDOT CENTRACS FORMER ECON 27 PACE TSP

AMES Engineering, Inc. CONSULTING ENGINEERS 6300 Belmont Road; Sulte 48 Downers Grove, IL 609516

USER NAME = msomer	DESIGNED	-	TM	REVISED -
	DRAWN	-	TM, SR	REVISED -
PLOT SCALE = \$SCALE\$	CHECKED	-	JAR	REVISED -
PLOT DATE = 03/19/2025	DATE	-	05/23/2024	REVISED -



PLAN

NOTES:

- 1) THE EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL NOT BE REMOVED UNTIL THE PROPOSED TRAFFIC SIGNAL EQUIPMENT IS FULLY OPERATIONAL.
- 2) ALL EXISTING TRAFFIC SIGNAL CABLE NO LONGER REQUIRED SHALL BE REMOVED.
- 3) ALL PROPOSED TRAFFIC SIGNAL CABLE SHALL BE ROUTED THROUGH THE PROPOSED CONDUIT.

RAILROAD PREEMPTION REQUIREMENTS:

WHEN A GRADE CROSSING EXISTS EITHER WITHIN OR IN THE VICINITY OF A TEMPORARY TRAFFIC CONTROL ZONE, LANE RESTRICTIONS, FLAGGING (SEE CHAPTER 6E), OR OTHER OPERATIONS SHALL NOT BE PERFORMED IN A MANNER THAT WOULD CAUSE HIGHWAY VEHICLES TO STOP ON THE RAILROAD OR LRT TRACKS, UNLESS A FLAGGER OR UNIFORMED LAW ENFORCEMENT OFFICER IS PROVIDED AT THE GRADE CROSSING TO MINIMIZE THE POSSIBILITY OF HIGHWAY VEHICLES STOPPING ON TE TRACKS, EVEN IF AUTOMATIC WARNING DEVICES ARE IN PLACE.

> TS 3605 IDOT CENTRACS **FORMER ECON 27** PACE TSP

AMES Engineering, Inc.

DESIGNED - TM REVISED -USER NAME = msomer DRAWN SR REVISED CHECKED -TM REVISED PLOT SCALE = \$SCALE\$ PLOT DATE = 03/19/2025 DATE 01/14/20254 REVISED -

DETAIL

HANDHOLE TO INTERCEPT EXISTING CONDUIT N.T.S.

ELEVATION

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODIFICATION PLAN IL RTE 171 (1ST AVENUE AND CERMAK ROAD (22ND ST.) CUT-OFF SHEET 1 OF 1 SHEETS STA.

SECTION COUNTY 771 2020-266-SUR, SW & TS COOK, DUPAGE 492 219 CONTRACT NO. 62N39

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 5C	FOOT	175
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	40
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	125
CONCRETE FOUNDATION, TYPE A	FOOT	4
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	1
SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
LAYER JI (DATALINK) SWITCH	EACH	1
UPGRADE EXISTING CONTROLLER TO NTCIP SPECIAL	EACH	1
REMOVE AND REPLACE BATTERIES FOR UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	1
LED SIGNAL FACE, LENS COVER	EACH	12
CENTRACS LICENSE EXPANSION	EACH	1
FIBER OPTIC INTERCONNECT CENTER, 48 PORT	EACH	1
LED SIGNAL MODULE REPLACEMENT	EACH	11

F.A.P.	SECTION	COUN	TY	TOTAL SHEETS	SHEET NO.
		cod	К	6	3
STA.		TO STA.	AT .		
FED! ROAL	DIST. NO.	ILLINOIS	FED.	AID PROJE	CT



-(1st- - AVENUE) - - -

□ ONC 939

937-5

NOTES:

REMOVE AND REPLACE BATTERIES FOR UPS

1) SOFTWARE FOR THIS CONTROLLER SHALL BE ASC3.

CONSTRUCTION NOTES:

EXISTING INTERCONNECT TO 17TH ST

- $\ensuremath{\boxed{1}}$ Install New Layer II (datalink) switch and fiber optic interconnect CENTER. 48 PORT, IN EXISTING CABINET.
- 2 PACE TO INSTALL COBALT CONTROLLER IN EXISTING TS2 CABINET. LAYER II SWITCH (PACE), ACCESS POINT, AND PRIORITY REQUEST SERVER AT THIS

TRAFFIC SIGNAL **ELECTRICAL SERVICE REQUIREMENTS**

FEFOUNDATE OFFIAL	OF HER	OHILLINE	1110
EQUIPMENT TYPE	QUANTITY	UNIT WATTAGE:	TOTAL WATTAG
SIGNAL HEAD 1 OR 3-SECTION	12	11	132
4-SECTION		14	(=)
5-SECTION	350	13	(#1)
PROGRAMMABLE 3-SECTION	140	22	180
4-SECTION	===	32	(=)
5-SECTION	(#6	28	180
PEDESTRIAN SIGNAL		15	(=)
CONTROLLER	1	150	150
MASTER CONTROLLER	180	100	140
UPS	1	25	25
DETECTION RADAR OR VIDEO	1943	20	140
PTZ CAMERA	146	75	180
NETWORK SWITCH II OR III	2	35	70
CELLULAR MODEM	340	15	1=0
Т	OTAL UPS	SIZING	377
UPS CHARGING	1	225	225

TOTAL SERVICE WIRE SIZING

PLOT SCALE = \$SCALE\$

PLOT DATE = 03/19/2025

180

200

15

120

240

180

200

DESIGNED - IMM. MA

CHECKED - JANK, AS

- MS, MA, MD, SR

11/08/2024

DRAWN

ENERGY COSTS TO: VILLAGE OF NORTH RIVERSIDE 2401 S DES PLAINES AVENUE NORTH RIVERSIDE, ILLINOIS 60546 ENERGY SUPPLY: CONTACT: ERICKA IRBY PHONE: (779) 231-0633 COMPANY: COMED ACCOUNT NUMBER:

EX. INTERCONNECT TO TRAFFIC SIGNAL CABINET AT CERMAK RD FOR RR

INDIVIDUALLY SHIELDED -

(12F)

PREEMPTION

REVISED -

REVISED -

REVISED -

REVISED

ELECTRIC CABLE, RAILROAD NO. 14 3C

ILL. RTE. 171

EXIST. INTERCONNECT TO CERMAK RD (TO REMAIN

FOR PACE)

EX. COMED SERVICE DROP -

TS 3605 IDOT CENTRACS **FORMER ECON 27** PACE TSP

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

TTT

CABLE PLAN AND SCHEDULE OF QUANTITIES IL RTE 171 (1ST AVENUE AND CERMAK ROAD (22ND ST.) CUT-OFF SHEET 1 OF 1 SHEETS STA.

SECTION 771 2020-266-SUR, SW & TS COOK, DUPAGE 4492 219a CONTRACT NO. 62N39

BATTERY HEATER MAT

LED STREET NAME SIGN

AMES Engineering, Inc.

CABINET HEATER

FLASHER

UMINAIRE

SEQUENCE OF OPERATION

MOVEMENT	1		1	DL		7000	1 2			F
PHASE			1				2			A
INTERVAL		1	24	28	3	4A	4B	4C	4D	s
CHANGE TO			2	2				1		н
IST AVENUE (SOUTH OF TRACKS) ALL SIGNALS	N/B	R	R	R	G	Υ	R	R	R	R
IST AVENUE (NORTH OF TRACKS) ALL SIGNALS	N/B	R	R	R	G	G	G	Υ	R	R
IST AVENUE LEFT TURN SIGNALS	S/B	- G	- 4 Y	→R	⊸ R	→ R	⊸ R	→ R	R	-
CERMAK ROAD CUTOFF ALL SIGNALS	W/8	G+	Y -	R-	R -	R-	R►	R ►	R →	R →

RAILROAD PREEMPTION SEQUENCE OF OPERATION

					PREEMPTOR NUMBER 2				
CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER	Γ.	1		3					
RAILROAD PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	1A	1B	1 C	10	2	3	4	5	CLEAR TO NORMAL
CHANGE TO RAILROAD PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	1B	2	1D	2	3	4	5	i de	SEQUENCE
IST AVENUE (SOUTH OF TRACKS) N/B ALL SIGNALS	R	R	Y	R	R	R	R	R	Δ
1ST AVENUE (NORTH OF TRACKS) N/B ALL SIGNALS	R	R	G	G	G	Υ	R	R	Δ
1ST AVENUE S/B LEFT TURN SIGNALS	→ Y	⊸ R	→ R	⊸a-R	⊸ R	→ R	→ R	- - G	Δ
CERMAK ROAD CUTOFF W/8 ALL SIGNALS	Y-=	R ==	R -	R 🏎	R →	R -	R 🖚	G-	Δ
								HOLD	

A RAILROAD PREEMPTION SEQUENCE SHALL PROVIDE THE PROPER CLEARANCE INTERVAL TO RESUME THE NORMAL SEQUENCE OF OPERATION OR PROPER CLEARANCE INTERVAL IO DISPLAY AN EMERGENCY VEHICLE INTERVAL (IF APPLICABLE) AFIER RAILROAD PREEMPTION INTERVAL 5 IS TERMINATED.

TS 3605 IDOT CENTRACS FORMER ECON 27 PACE TSP

AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Beisnort Road, Suite 4B
Downers Grow, IL 89516

SHT NO. 70

USER NAME = msomer	DESIGNED	-	тм	REVISED	-
	DRAWN	-	SR	REVISED	-
PLOT SCALE = \$SCALE\$	CHECKED		тм	REVISED	-
PLOT DATE = 03/19/2025	DATE	-	01/14/20254	REVISED	-

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SEQUI	ENCE OF	OPEF	RATIO	ON AND	RAILROA	D PREEMPTION
IL RTE 171	(1ST AVE	NUE	ANI	CERMA	K ROAD	(22ND ST.) CUT-OFF
SCALE: NTS	SHEET	1	OF	1 SHEETS	STA.	TO STA.

CERMAK RD NOTES: - EXIST. INTERCONNECT TO DES PLAINES AVE 195'-E-2" **REMOVAL AND RELOCATION NOTES:** 1) A SEPARATE LEAD-IN CABLE SHALL BE INSTALLED FOR THE DETECTOR LOOPS ON THE EB CERMAK RD INSIDE THROUGH LANE AND ON THE WB CERMAK INSIDE THROUGH LANE. THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE 333 SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE. 1 EACH ELECTRIC SERVICE CERMAK RD - EXIST. INTERCONNECT TO IL RTE 171 (1ST AVE) 24'-E-1½" -EXIST. R.O.W. 17'-E-1⅓ EX. COMED SERVICE DROP - 99'-E-2" EX. 32' MAST ARM REMOVE AND REPLACE BATTERIES FOR UPS 61'-F-3½' \(\subseteq = \subseteq \frac{1}{2} \) EX. 14' POST - 55'-E-3" -EX. 32' MAST ARM EX. 18' POST — 15'-E-2" – 9'-E**-**2" 110'-E-2" -EX. 18' POST - 294'-E**-**2' 78'-E-1½" EXIST. R.O.W. CONSTRUCTION NOTES: $\langle 1 \rangle$ THE SOFTWARE FOR THIS CONTROLLER SHALL BE ASC3. **RAILROAD PREEMPTION REQUIREMENTS:** (2) PROPOSED CONDUIT SHALL BE SPLICED TO THE EXISTING CONDUIT AND EXTENDED VERTICALLY THROUGH THE PROPOSED WHEN A GRADE CROSSING EXISTS EITHER WITHIN OR IN THE VICINITY OF A TEMPORARY TRAFFIC CONTROL ZONE, LANE RESTRICTIONS, FLAGGING FOUNDATIONAT THE GROUND MOUNTED SERVICE LOCATION. (SEE CHAPTER 6E), OR OTHER OPERATIONS SHALL NOT BE PERFORMED IN A MANNER THAT WOULD CAUSE HIGHWAY VEHICLES TO STOP ON THE THE COST OF THE CONDUIT SHALL BE INCLUDED IN THE COST RAILROAD OR LRT TRACKS, UNLESS A FLAGGER OR UNIFORMED LAW ENFORCEMENT OFFICER IS PROVIDED AT THE GRADE CROSSING TO MINIMIZE OF CONCRETE FOUNDATION, TYPE A. THE POSSIBILITY OF HIGHWAY VEHICLES STOPPING ON TE TRACKS, EVEN IF AUTOMATIC WARNING DEVICES ARE IN PLACE. TS 11800 **IDOT CENTRACS** FORMER ECON 27 PACE TSP DESIGNED - TM REVISED SECTION COUNTY AMES Engineering, Inc. TRAFFIC SIGNAL MODIFICATION PLAN **STATE OF ILLINOIS** DRAWN TM. SR REVISED CERMAK RD (22ND ST) AND 1ST AVE CUTOFF 1453 2020-266-SUR, SW & TS COOK/DUPAGE 492 220a

DEPARTMENT OF TRANSPORTATION

SCALE: 1" = 20' SHEET

SHEETS STA.

CONTRACT NO. 62N39

TS SHT NO. 71

CHECKED -

DATE

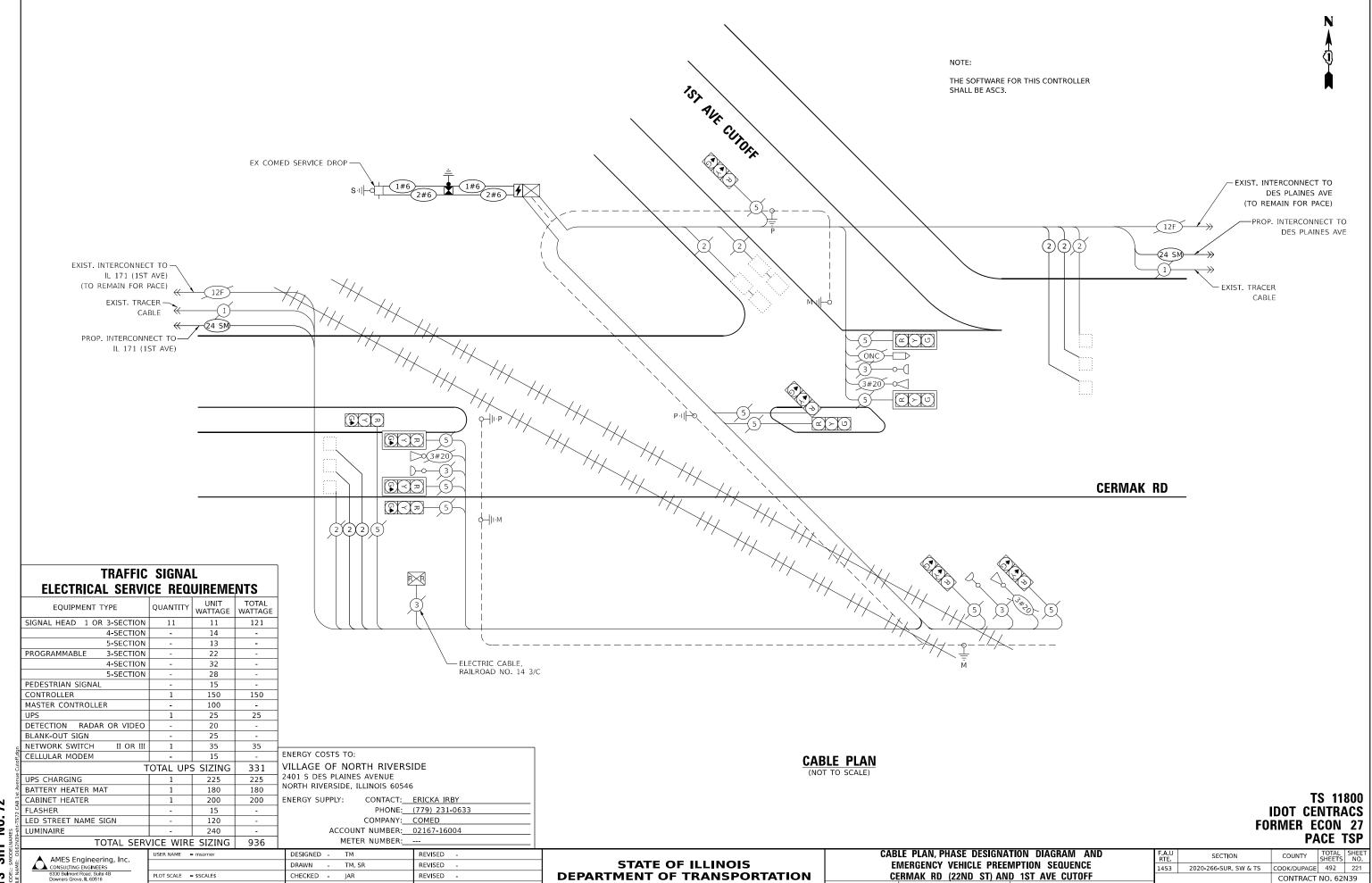
PLOT DATE = 03/19/2025

JAR

- 05/23/2024

REVISED

REVISED



S SHT NO. 72

PLOT DATE = 03/19/2025

DATE

- 05/23/2024

REVISED -

SEQUENCE OF OPERATION

MOVEMENT	2	—	6		4		
PHASE		2 + 6			4		F L
INTERVAL	1	2A	2B	3	4A	4B	A S
CHANGE TO PHASE		4	1		2+	-6	Н
CERMAK ROAD EB ALL SIGNALS	♦ G	Υ	R	R	R	R	R
CERMAK ROAD WB ALL SIGNALS	G	Υ	R	R	R	R	R
FIRST AVENUE CUTOFF SEB ALL SIGNALS	R	R	R	∢ -G	← Y	R	R

PHASE 2+6 SHALL BE PLACED ON RECALL.

EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION

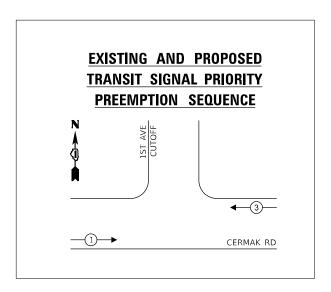
							PREEMPTOR	PREEMPTOR]
							NUMBER 3	NUMBER 4	
CHANGE FROM NORMAL SEQUENCE	1		1		3	3			CLEAR
OF OPERATIONS INTERVAL NUMBER			<u>.</u>						то
EMERGENCY VEHICLE PREEMPTION SEQUENCE	1A	1B	1C	1D	1E	1F	2	3	NORMAL
OF OPERATIONS INTERVAL NUMBER	17	10	10	10	1			,	SEQUENCE
CHANGE TO EMERGENCY VEHICLE PREEMPTION	2	1C	3	1E	2	3			\wedge
SEQUENCE OF OPERATIONS INTERVAL NUMBER		10	٥	16		٥			\vee
CERMAK ROAD EB		_	R	R	R	R		R	
ALL SIGNALS	G	'	11	11	10	11	G	IX.	\vee
CERMAK ROAD WB	G	_	R	R	R	R	G	R	
ALL SIGNALS	٥	'	I N	I N	I N		G	, n	
FIRST AVENUE CUTOFF SEB	R	R	R	4 −Y	R	4 -G	R	4 −G	
ALL SIGNALS	17	'\	'N	'	'\	•	``	•	

EMERGENCY VEHICLE SEQUENCE SHALL PROVIDE THE PROPER CLEARANCE INTERVAL TO RESUME THE NORMAL SEQUENCE OF OPERATIONS OR PROPER CLEARANCE INTERVAL TO DISPLAY A DIFFERENT EMERGENCY INTERVAL AFTER EMERGENCY VEHICLE INTERVAL 2 OR 3 IS TERMINATED.

RAILROAD PREEMPTION SEQUENCE OF OPERATION

				PREEN	1PTOR	PREEMPTOR	PREEMPTOR	
				NUME	BER 3	NUMBER 4	NUMBER 2	
CHANGE FROM NORMAL SEQUENCE		1	3					
OF OPERATIONS INTERVAL NUMBER		1	ر					
CHANGE FROM EMERGENCY VEHICLE PREEMPTION				2	,	3		
SEQUENCE OF OPERATIONS INTERVAL NUMBER					-	3		
RAILROAD PREEMPTION SEQUENCE	1A	1B	1C	1D	1E	1F	2	CLEAR
OF OPERATIONS INTERVAL NUMBER	1A	10	10	10	10	11	2	TO
CHANGE TO RAILROAD PREEMPTION SEQUENCE	1B	2	2	1E	2	2		NORMAL
OF OPERATIONS INTERVAL NUMBER	10			11		2		SEQUENCE
CERMAK ROAD EB & WB	Y	R	R	Υ	R	R	R	
ALL SIGNALS	'	11	11		11	, N	, N	
FIRST AVENUE CUTOFF SEB	R	R	4 -G	R	R	 G	 G	
ALL SIGNALS	'\	'`	, 0	11	-11	_ , 0	•	
							HOLD	
							HOLD	

ARILROAD PREEMPTION SEQUENCE SHALL PROVIDE THE PROPER CLEARANCE INTERVAL TO RESUME THE NORMAL SEQUENCE OF OPERATIONS OR PROPER CLEARANCE INTERVAL TO DISPLAY AN EMERGENCY VEHICLE INTERVAL (IF APPLICABLE) AFTER RAILROAD PREEMPTION INTERVAL 2 IS TERMINATED.



TS 11800 **IDOT CENTRACS** FORMER ECON 27 PACE TSP

AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Belmont Road, Suite 4B
Downers Grove, IL 60516

USER NAME = msomer	DESIGNED	-	TM	REVISED	-
	DRAWN	-	TM, SR	REVISED	-
PLOT SCALE = \$SCALE\$	CHECKED	-	JAR	REVISED	-
PLOT DATE = 03/19/2025	DATE	-	05/23/2024	REVISED	-

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

				<u>' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' </u>	IUL I	131
SEQUENCE OF OPERATION, EMERGENCY VI	EHICLE PREEMPTION SEQUENCE	F.A.U RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
OF OPERATION & FIRE STATION PREEMP		1453	2020-266-SUR, SW & TS	COOK/DUPAGE	492	222
CERMAK RD (22ND ST) AND	FIRST AVE CUTOFF			CONTRACT	NO. 621	139
SCALE: NTS SHEET OF SHEETS	STA. TO STA.		ILLINOIS FED. A	ID PROJECT		

CENTRACS LICENSE EXPANSION

LED SIGNAL MODULE REPLACEMENT

FIBER OPTIC INTERCONNECT CENTER, 48 PORT

SCHEDULE OF QUANTITIES

NO. 74 SHT

AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Belmont Road, Suite 4B
Downers Grove, IL 60516

DESIGNED - TM REVISED -DRAWN - TM, SR REVISED CHECKED - JAR REVISED -PLOT DATE = 03/19/2025 REVISED -DATE - 05/23/2024

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES CERMAK RD (22ND ST) AND 1ST AVE CUTOFF SHEET 1 OF 1 SHEETS STA.

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

 1453
 2020-266-SUR, SW & TS
 COOK/DUPAGE
 492
 223
 CONTRACT NO. 62N39

TOTAL QTY.

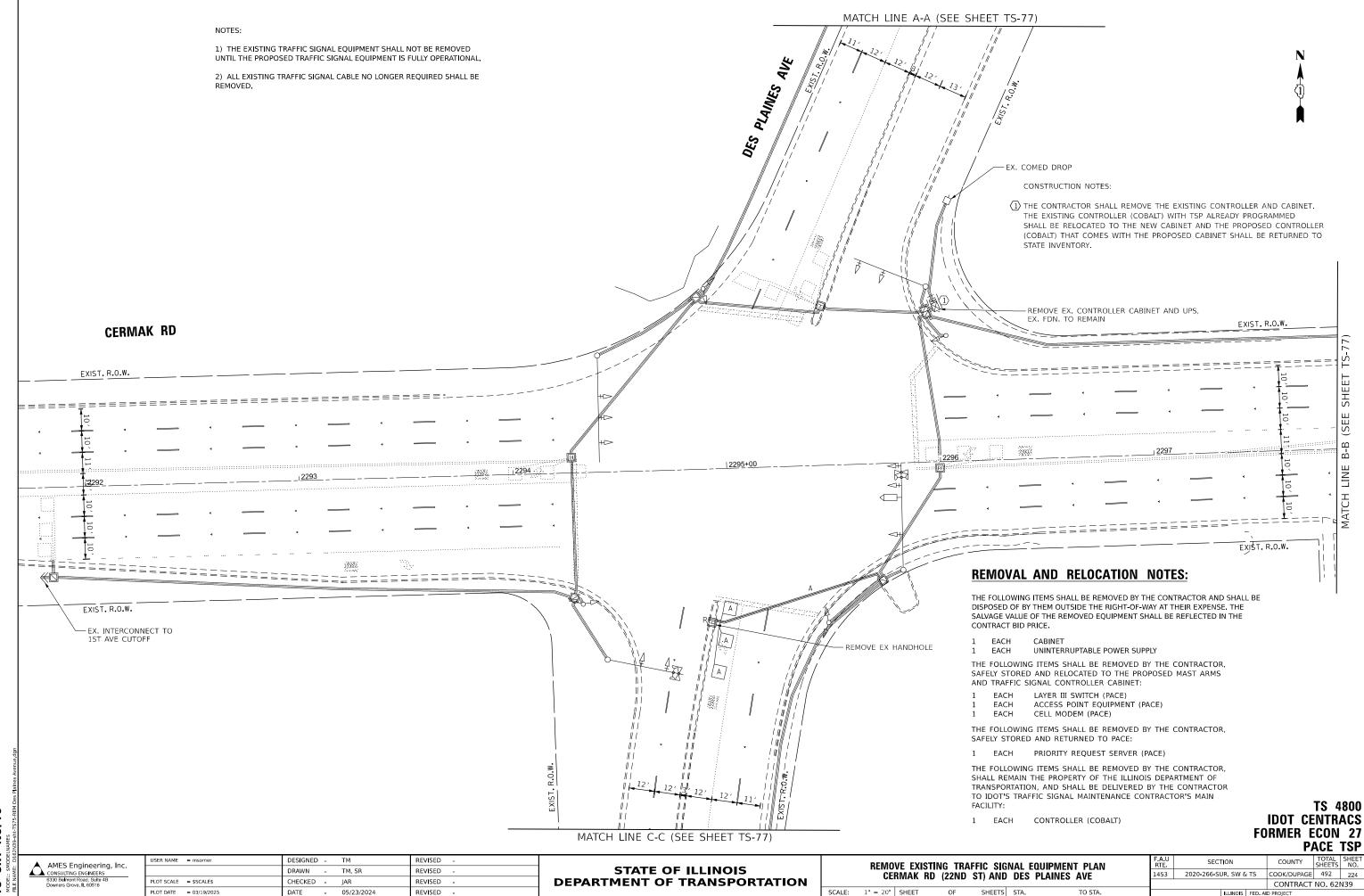
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EACH

EACH

EACH

TS 11800 IDOT CENTRACS FORMER ECON 27

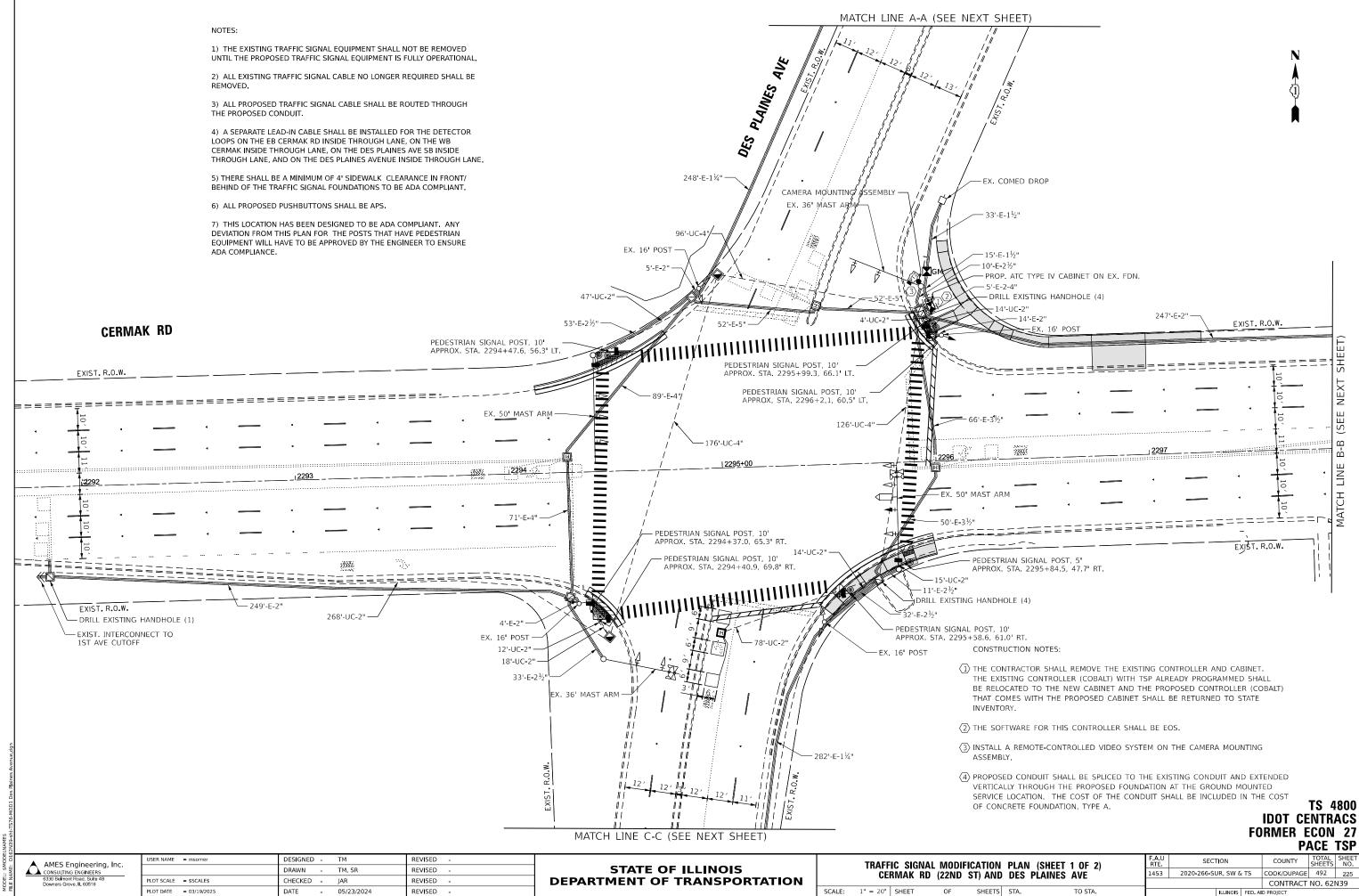


SHT

PLOT DATE = 03/19/2025

REVISED

- 05/23/2024



TS 4800 IDOT CENTRACS FORMER ECON 27 PACE TSP

AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Belmont Road, Sulte 4B
Downers Grove, IL 60516

SHT NO. 77

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODIFICATION PLAN (SHEET 2 OF 2) CERMAK RD (22ND ST) AND DES PLAINES AVE

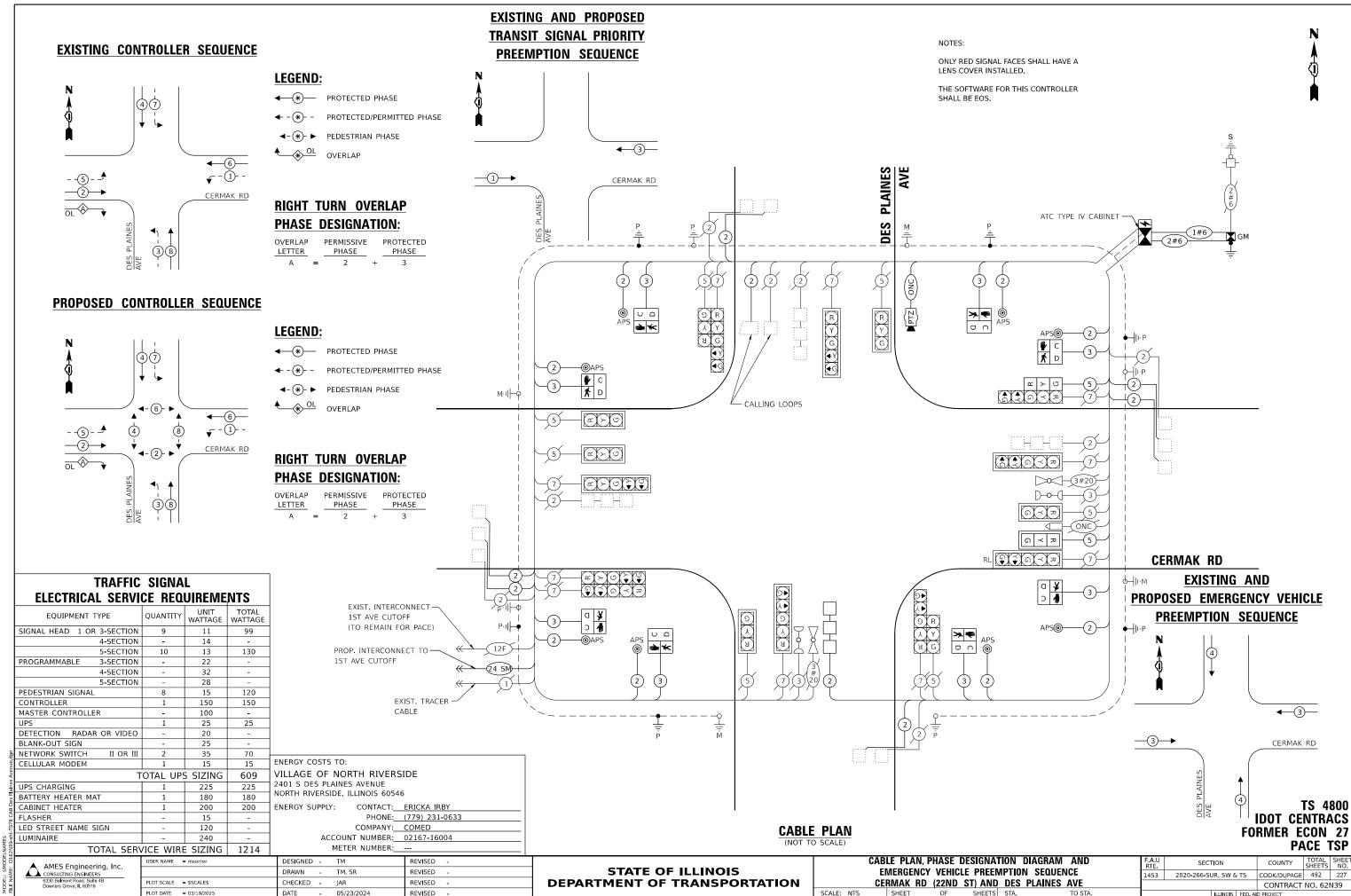
SCALE: 1" = 20' SHEET OF SHEETS STA. TO STA.

CERMAK RD

EXIST. R.O.W.

(SEE

B-B



SHT NO, 79 smodelnames me: Dig2n39-sht-TS79-STN Des Plaine

AMES Engineering, Inc. CONSULTING ENGINEERS 6330 Belmont Road, Suite 4B Downers Grove, IL 60516

USER NAME = msomer DESIGNED TM REVISED DRAWN TM, SR REVISED PLOT SCALE = \$SCALE\$ CHECKED JAR REVISED PLOT DATE = 03/19/2025 DATE 05/23/2024 REVISED

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES								
CERI	VIAK	RD	(22ND	S	T) AND	DES	PLAINES	AVE
	SHEE	T 1	OF	1	SHEETS	STA		TO STA.

CENTRACS LICENSE EXPANSION

SCALE: NTS

LED SIGNAL MODULE REPLACEMENT

FIBER OPTIC INTERCONNECT CENTER, 48 PORT

PACE TSP F.A.U RTE. SECTION COUNTY SHEETS NO. TOTAL SHEETS NO. 1453 2020-266-SUR, SW & TS COOK/DUPAGE 492 228 CONTRACT NO. 62N39

EACH

EACH

EACH

SCHEDULE OF QUANTITIES TOTAL ITEM DESCRIPTION QTY. UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA. FOOT 480 UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA. FOOT 409 HANDHOLE EACH HEAVY DUTY HANDHOLE EACH MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION EACH FOOT ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C 1498 ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C FOOT 1570 ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C FOOT 268 ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR FOOT 2452 ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C FOOT 40 ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C FOOT 1108 CONCRETE FOUNDATION, TYPE A FOOT 4 EACH DRILL EXISTING HANDHOLE 9 SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED EACH 1 SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED EACH 1 PEDESTRIAN SIGNAL HEAD, L.E.D., 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER EACH TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC EACH 1 FACH INDUCTIVE LOOP DETECTOR 15 DETECTOR LOOP, TYPE 1 FOOT 103 RELOCATE EXISTING SIGNAL HEAD EACH RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT EACH FOOT 240 REMOVE ELECTRIC CABLE IN CONDUIT REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT EACH REMOVE EXISTING HANDHOLE EACH FOOT OUTDOOR RATED NETWORK CABLE 80 SERVICE INSTALLATION, GROUND MOUNTED, METERED EACH REMOTE CONTROLLED VIDEO SYSTEM EACH LAYER II (DATALINK) SWITCH EACH EACH UPGRADE EXISTING CONTROLLER TO NTCIP SPECIAL PEDESTRIAN SIGNAL POST, 10 FT. EACH PEDESTRIAN SIGNAL POST, 5 FT. EACH ADVANCED TRANSPORTATION CONTROLLER AND TYPE IV CABINET, SPECIAL EACH UNINTERRUPTABLE POWER SUPPLY AND CABINET, SPECIAL EACH ACCESSIBLE PEDESTRIAN SIGNALS EACH 8 CONCRETE FOUNDATION, TYPE A, 12-INCH DIAMETER FOOT 28 EACH 19 LED SIGNAL FACE, LENS COVER CAMERA MOUNTING ASSEMBLY EACH

> TS 4800 IDOT CENTRACS FORMER ECON 27

NOTES:

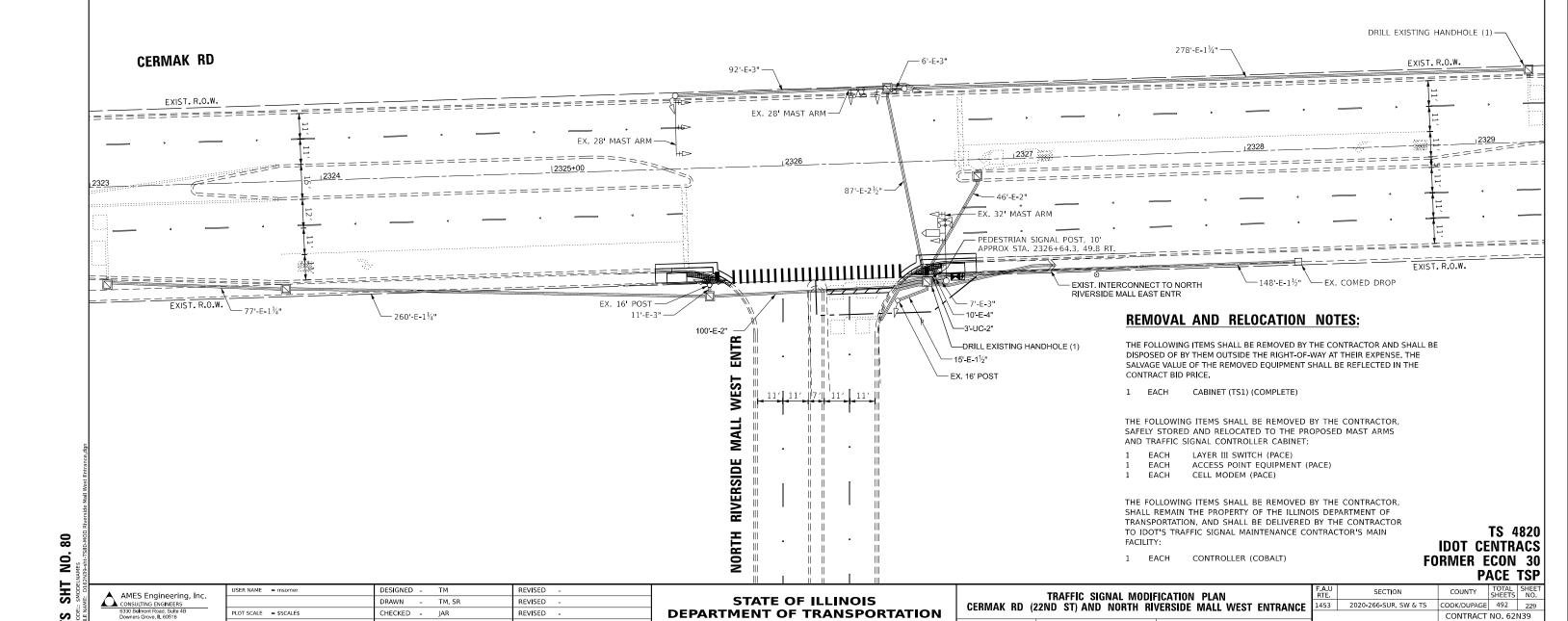
PLOT DATE = 03/19/2025

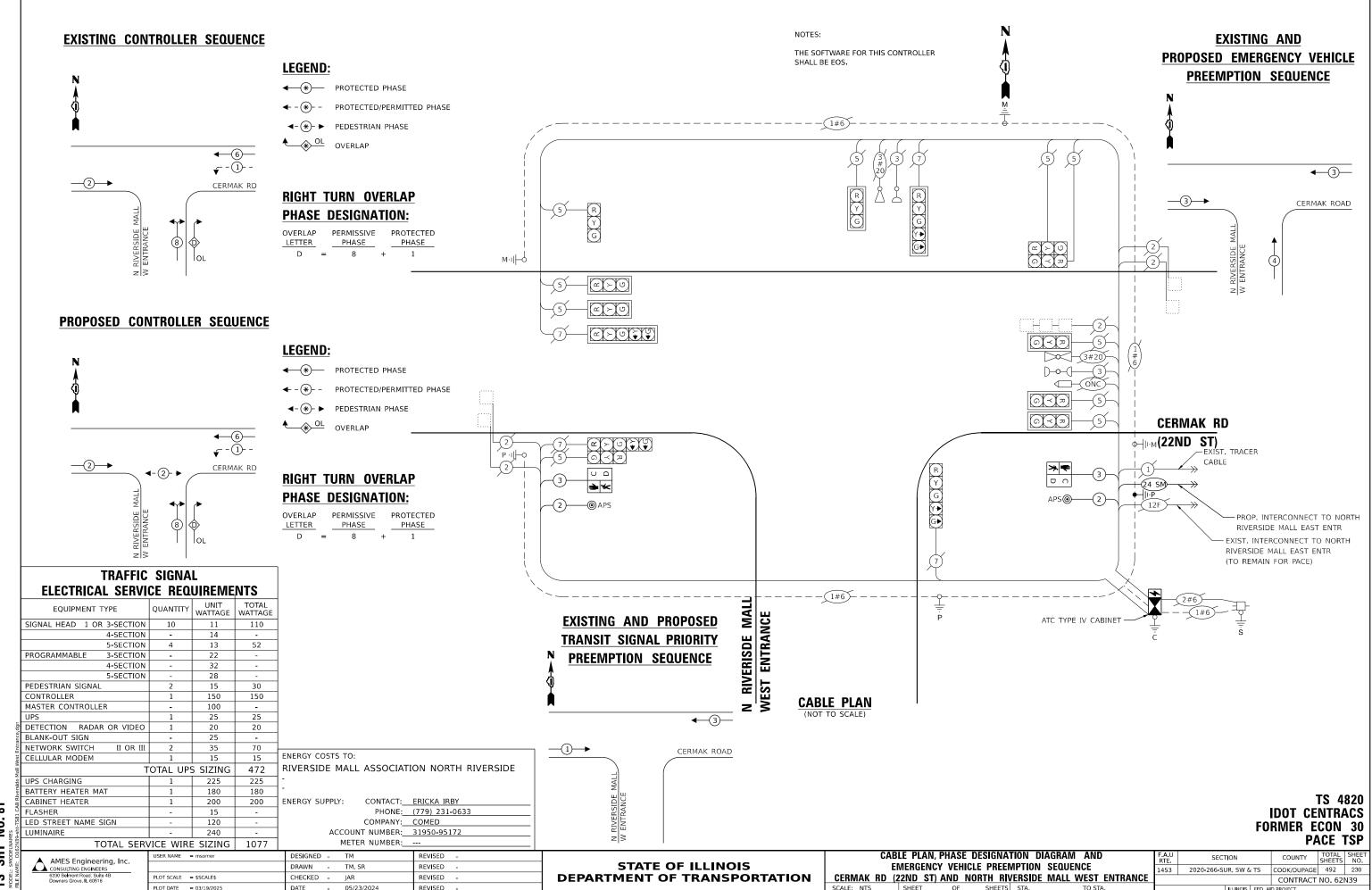
- 1) THE EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL NOT BE REMOVED UNTIL THE PROPOSED TRAFFIC SIGNAL EQUIPMENT IS FULLY OPERATIONAL,
- 2) ALL EXISTING TRAFFIC SIGNAL CABLE NO LONGER REQUIRED SHALL BE REMOVED,
- 3) THERE SHALL BE A MINIMUM OF 4' SIDEWALK CLEARANCE IN FRONT/ BEHIND OF THE TRAFFIC SIGNAL FOUNDATIONS TO BE ADA COMPLIANT.
- 4) ALL PROPOSED PUSHBUTTONS SHALL BE APS.
- 5) THIS LOCATION HAS BEEN DESIGNED TO BE ADA COMPLIANT. ANY DEVIATION FROM THIS PLAN FOR THE POSTS THAT HAVE PEDESTRIAN EQUIPMENT WILL HAVE TO BE APPROVED BY THE ENGINEER TO ENSURE ADA COMPLIANCE

CONSTRUCTION NOTES:

- (1) THE CONTRACTOR SHALL REMOVE THE EXISTING CONTROLLER AND CABINET.
 THE EXISTING CONTROLLER (COBALT) WITH TSP ALREADY PROGRAMMED
 SHALL BE RELOCATED TO THE NEW CABINET AND THE PROPOSED CONTROLLER
 (COBALT) THAT COMES WITH THE PROPOSED CABINET SHALL BE RETURNED TO
 STATE INVENTORY
- (2) THE SOFTWARE FOR THIS CONTROLLER SHALL BE EOS.

SHEETS STA.





SHT NO. 82

AMES Engineering, Inc. CONSULTING ENGINEERS 6330 Belmont Road, Suite 4B Downers Grove, IL 60516

DESIGNED - TM REVISED -DRAWN - TM, SR REVISED -PLOT SCALE = \$SCALE\$ CHECKED - JAR REVISED -PLOT DATE = 03/19/2025 DATE - 05/23/2024 REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES CERMAK RD (22ND ST) AND NORTH RIVERSIDE MALL WEST ENTRANCE SHEET 1 OF 1 SHEETS STA.

		IDOT CE RMER E		30 30
F.A.U RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1453	2020-266-SUR, SW & TS	COOK/DUPAGE	492	229
		CONTRACT	NO. 62	V39

SCHEDULE OF QUANTITIES

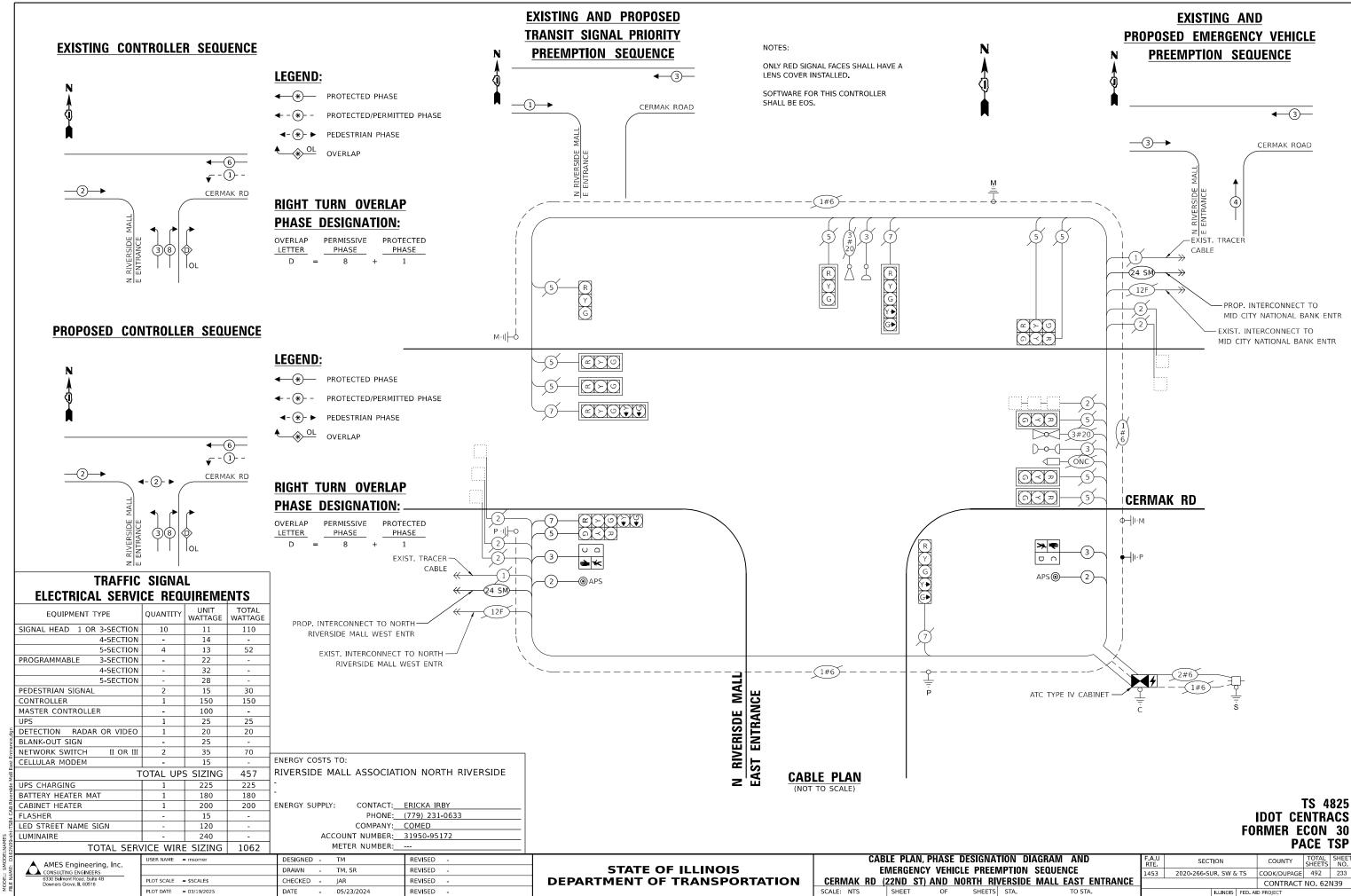
ITEM DESCRIPTION	UNITS	TOTAL QTY.
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.		3
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	178
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	193
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	16
CONCRETE FOUNDATION, TYPE A	FOOT	4
DRILL EXISTING HANDHOLE	EACH	1
PEDESTRIAN SIGNAL HEAD, L.E.D., 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2
LAYER II (DATALINK) SWITCH	EACH	1
UPGRADE EXISTING CONTROLLER TO NTCIP SPECIAL	EACH	1
PEDESTRIAN SIGNAL POST, 10'	EACH	1
ADVANCED TRANSPORTATION CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
UNINTERRUPTABLE POWER SUPPLY AND CABINET, SPECIAL	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	FOOT	2
CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	EACH	4
CENTRACS LICENSE EXPANSION	EACH	1
FIBER OPTIC INTERCONNECT CENTER, 48 PORT	EACH	1

REMOVAL AND RELOCATION NOTES: THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE CONSTRUCTION NOTES: EACH CABINET 1 THE CONTRACTOR SHALL REMOVE THE EXISTING CONTROLLER AND CABINET. UNINTERRUPTABLE POWER SUPPLY EACH THE EXISTING CONTROLLER (COBALT) WITH TSP ALREADY PROGRAMMED THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR, SHALL BE RELOCATED TO THE NEW CABINET AND THE PROPOSED CONTROLLER SAFELY STORED AND RELOCATED TO THE PROPOSED MAST ARMS (COBALT) THAT COMES WITH THE PROPOSED CABINET SHALL BE RETURNED TO AND TRAFFIC SIGNAL CONTROLLER CABINET: STATE INVENTORY. LAYER II SWITCH (PACE) ACCESS POINT EQUIPMENT (PACE) (2) THE SOFTWARE FOR THIS CONTROLLER SHALL BE EOS. EACH EACH CONTROLLER (COBALT) THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR, SHALL REMAIN THE PROPERTY OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION, AND SHALL BE DELIVERED BY THE CONTRACTOR TO IDOT'S TRAFFIC SIGNAL MAINTENANCE CONTRACTOR'S MAIN 1 EACH CONTROLLER (COBALT) EXIST. INTERCONNECT TO MID CITY NATIONAL BANK ENTR EX. 28' MAST ARM 285'-E-11/4" CERMAK RD (22ND ST) EXIST. R.O.W. 48'-E-3" EX. 28 MAST ARM -88'-E-2½" -PEDESTRIAN SIGNAL POST, 10' APPROX. STA. 2331+13.8, 49.6' RT. EXIST. R.O.W. 6'-E-1½" 71'-E-1½" - 6'-UC-2 111 111 -EXIST. INTERCONNECT TO NORTH RIVERSIDE MALL WEST ENTR - DRILL EXISTING HANDHOLE (1) NOTES: -12'-E-1¹/₂" 1) THE EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL NOT BE REMOVED -EX. 16' POST UNTIL THE PROPOSED TRAFFIC SIGNAL EQUIPMENT IS FULLY OPERATIONAL. 2) ALL EXISTING TRAFFIC SIGNAL CABLE NO LONGER REQUIRED SHALL BE MALL 3) THERE SHALL BE A MINIMUM OF 4' SIDEWALK CLEARANCE IN FRONT/ BEHIND OF THE TRAFFIC SIGNAL FOUNDATIONS TO BE ADA COMPLIANT. 11'|||||||||||| 12 4) ALL PROPOSED PUSHBUTTONS SHALL BE APS. RIVERSIDE 5) THIS LOCATION HAS BEEN DESIGNED TO BE ADA COMPLIANT. ANY DEVIATION FROM THIS PLAN FOR THE POSTS THAT HAVE PEDESTRIAN EQUIPMENT WILL HAVE TO BE APPROVED BY THE ENGINEER TO ENSURE ADA COMPLIANCE. 111 111 111-111 $\parallel \parallel \parallel \parallel$ NORTH 111 111 111 111 111.111 TS 4825 111.111 **IDOT CENTRACS** FORMER ECON 30 10.00 PACE TSP DESIGNED -REVISED SECTION COUNTY AMES Engineering, Inc. TRAFFIC SIGNAL MODIFICATION PLAN **STATE OF ILLINOIS** DRAWN TM. SR REVISED CERMAK RD (22ND ST) AND NORTH RIVERSIDE MALL EAST ENTRANCE 1453 2020-266-SUR, SW & TS | COOK/DUPAGE | 492 | 232 CHECKED -JAR REVISED **DEPARTMENT OF TRANSPORTATION** CONTRACT NO. 62N39 SCALE: 1" = 20' SHEET SHEETS STA. PLOT DATE = 03/19/2025 05/23/2024 REVISED DATE

83

<u>8</u>

SHT



NO. 85 SHT

AMES Engineering, Inc. CONSULTING ENGINEERS 6330 Belmont Road, Suite 4B Downers Grove, IL 60516

JSER NAME = msomer DESIGNED - TM REVISED -DRAWN - TM, SR REVISED -CHECKED - JAR REVISED -PLOT DATE = 03/19/2025 REVISED -DATE - 05/23/2024

SCHEDULE OF QUANTITIES 1453 2020-266-SUR, SW CERMAK RD (22ND ST) AND NORTH RIVERSIDE MALL EAST ENTRANCE SCALE: NTS SHEET 1 OF 1 SHEETS STA.

IDOT CENTRACS FORMER ECON 30 PACE TSP				
	COUNTY	TOTAL SHEETS	SHEET NO.	
& TS	COOK/DUPAGE	492	234	
	CONTRACT	NO 62	N39	

SECTION

ILLINOIS FED. AID PROJECT

TS 4825

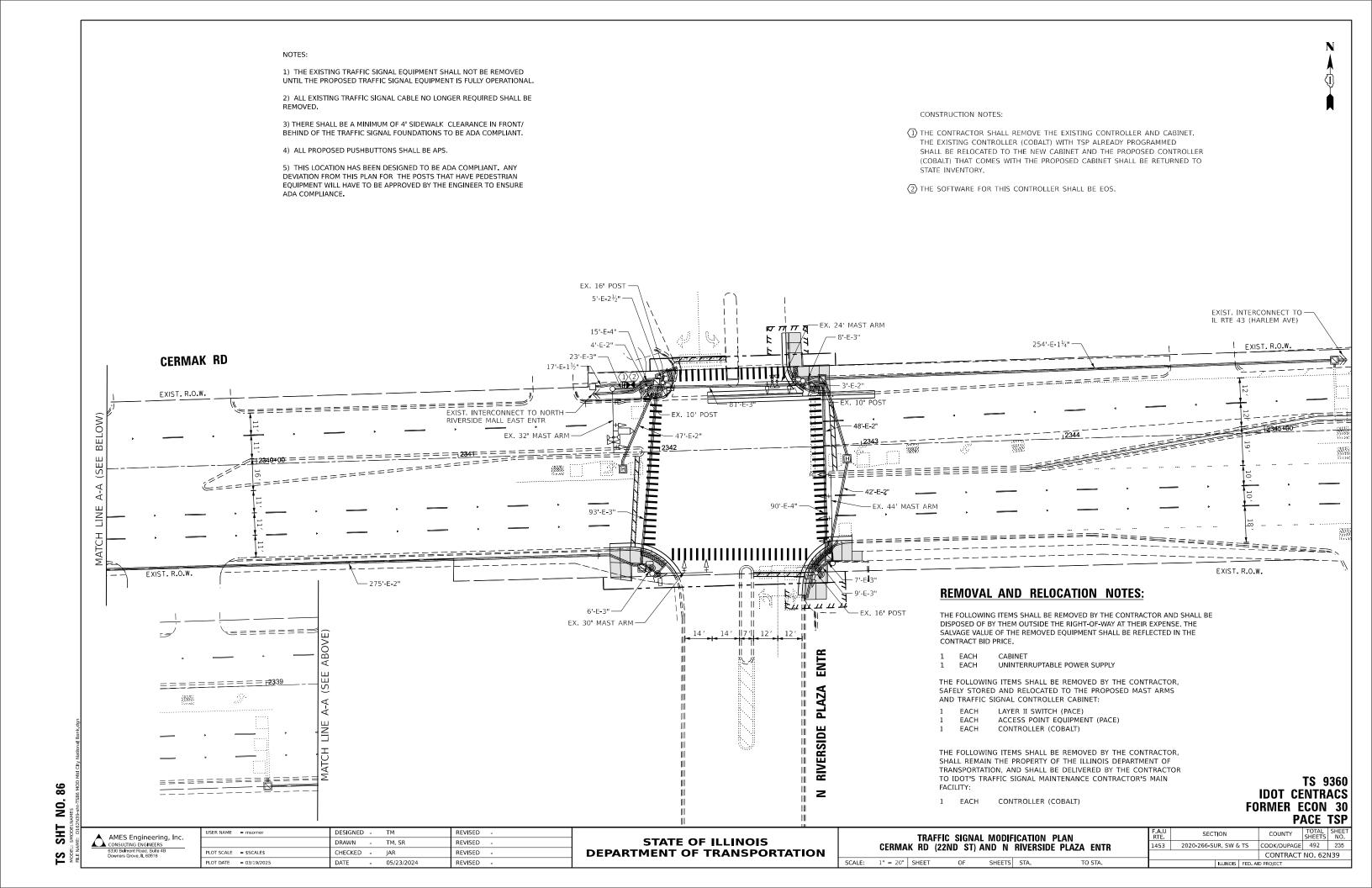
EACH

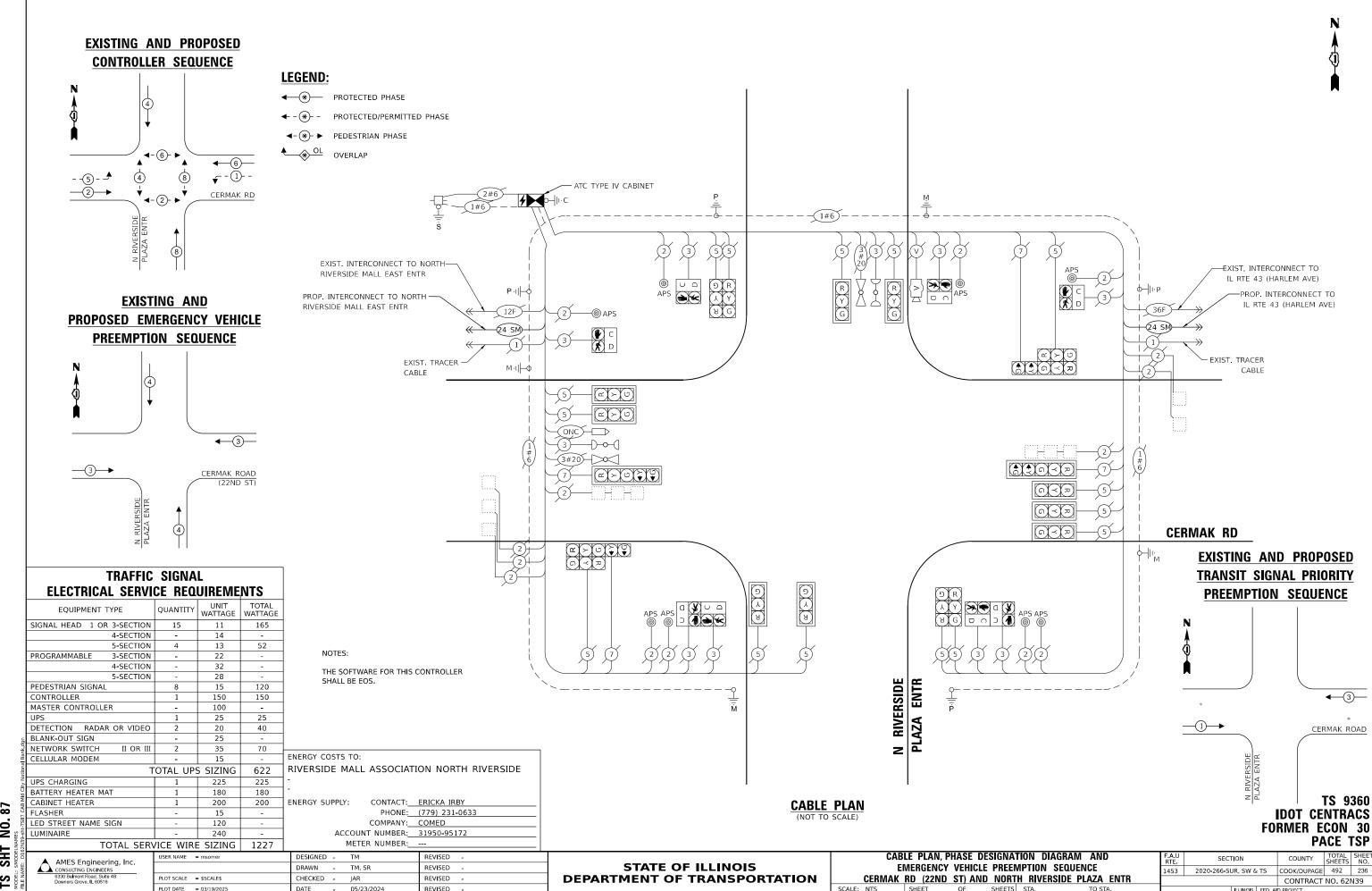
TOTAL QTY. ITEM DESCRIPTION UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA. FOOT MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION EACH FOOT ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C 183 ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C FOOT 201 ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C FOOT 24 FOOT 4 CONCRETE FOUNDATION, TYPE A DRILL EXISTING HANDHOLE EACH 1 PEDESTRIAN SIGNAL HEAD, L.E.D., 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER EACH REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT EACH EACH LAYER II (DATALINK) SWITCH UPGRADE EXISTING CONTROLLER TO NTCIP SPECIAL EACH PEDESTRIAN SIGNAL POST, 10 FT. EACH ADVANCED TRANSPORTATION CONTROLLER AND TYPE IV CABINET, SPECIAL EACH UNINTERRUPTABLE POWER SUPPLY AND CABINET, SPECIAL EACH ACCESSIBLE PEDESTRIAN SIGNALS EACH CONCRETE FOUNDATION, TYPE A, 12-INCH DIAMETER FOOT CENTRACS LICENSE EXPANSION EACH

FIBER OPTIC INTERCONNECT CENTER, 48 PORT

SCHEDULE OF QUANTITIES

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION





ITEM DESCRIPTION	UNITS	TOTAL QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
UPGRADE EXISTING CONTROLLER TO NTCIP SPECIAL	EACH	1
ADVANCED TRANSPORTATION CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
UNINTERRUPTABLE POWER SUPPLY AND CABINET, SPECIAL	EACH	1
CENTRACS LICENSE EXPANSION	EACH	1
FIBER OPTIC INTERCONNECT CENTER, 48 PORt	EACH	1

TS 9360 IDOT CENTRACS FORMER ECON 30 PACE TSP

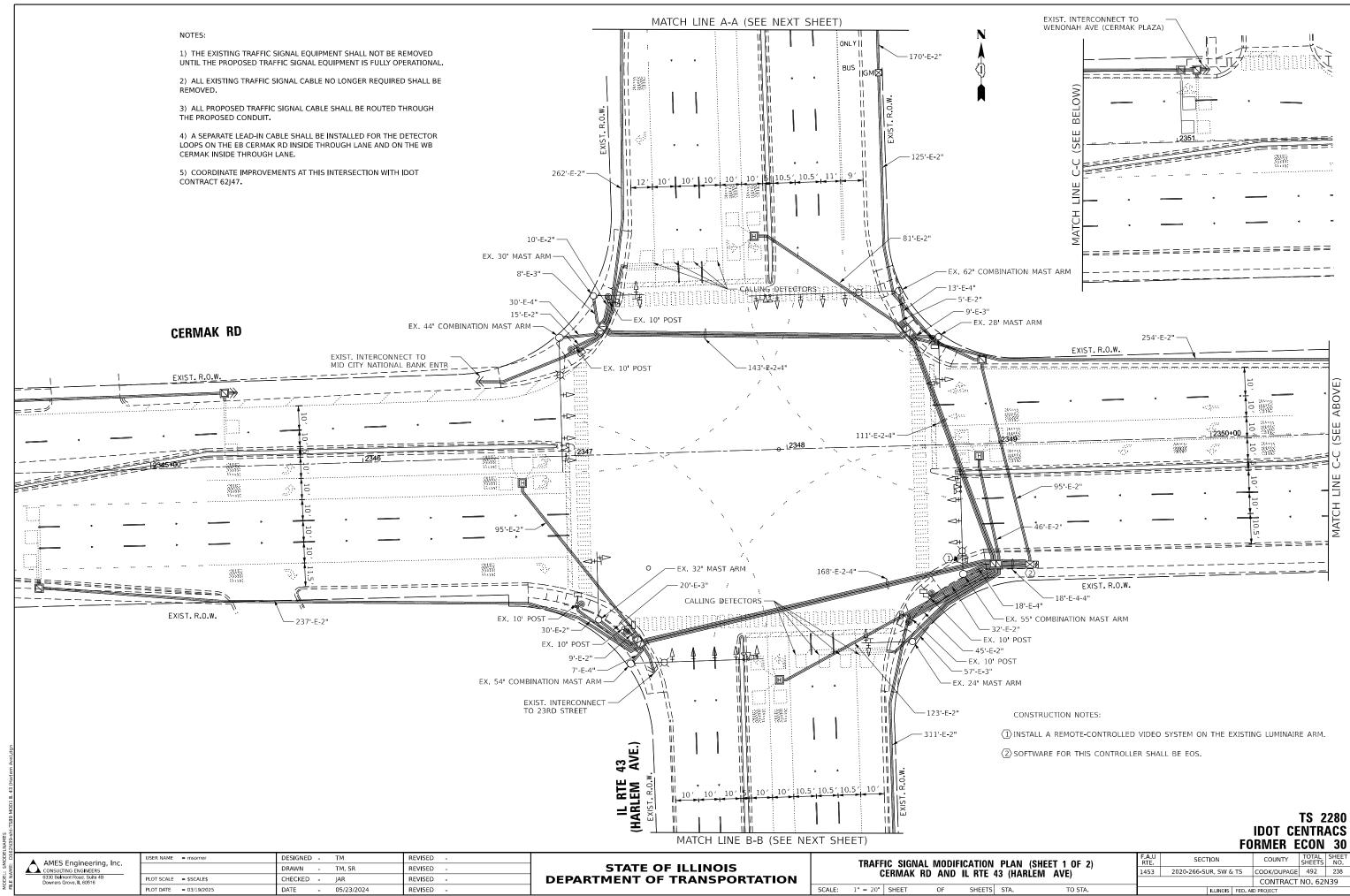
AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Belmont Road, Suite 4B
Downers Grove, IL 60516

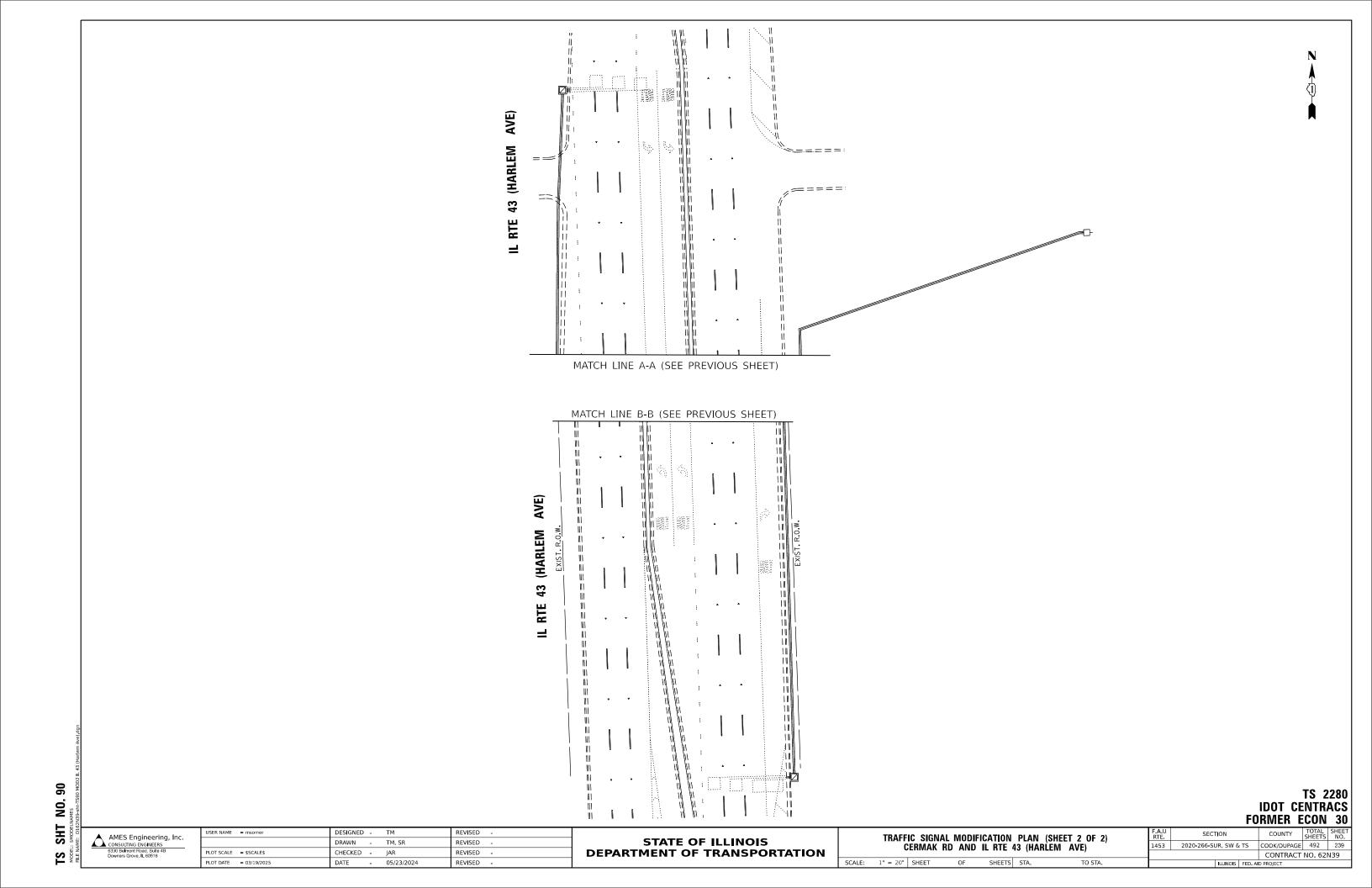
SHT NO. 88

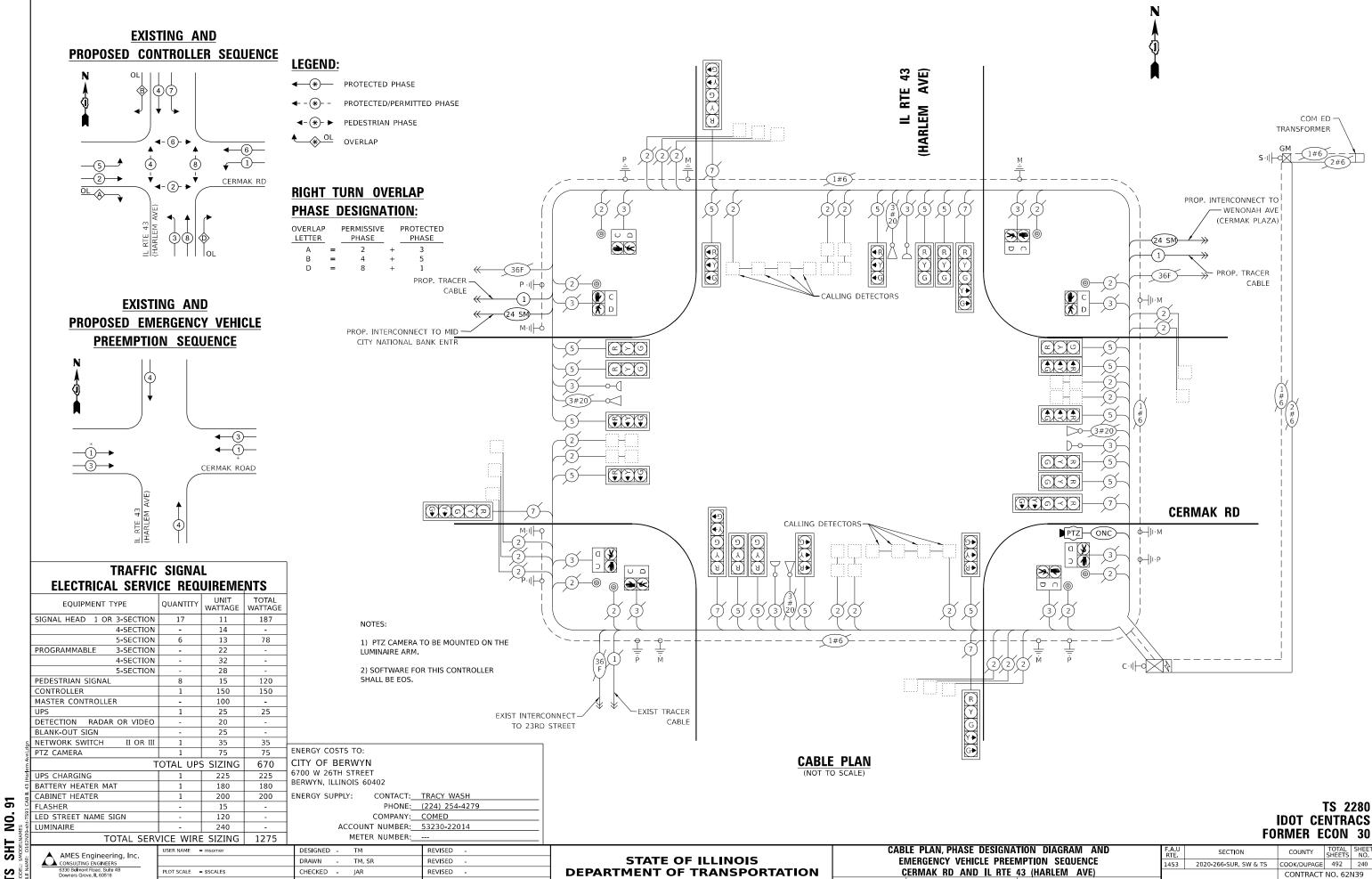
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES
CERMAK RD (22ND ST) AND N RIVERSIDE PLAZA ENTR

NTS SHEET 1 OF 1 SHEETS STA. TO STA.







PLOT DATE = 03/19/2025

DATE

- 05/23/2024

REVISED -

ITEM DESCRIPTION	UNITS	TOTAL QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
OUTDOOR RATED NETWORK CABLE	FOOT	101
REMOTE CONTROLLED VIDEO SYSTEM		1
UPGRADE EXISTING CONTROLLER TO NTCIP SPECIAL	EACH	1
LAYER III (NETWORK) SWITCH	EACH	1
CENTRACS LICENSE EXPANSION	EACH	1
FIBER OPTIC INTERCONNECT CENTER, 48 PORT	EACH	1

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TS 2280 IDOT CENTRACS FORMER ECON 30

AMES Engineering, Inc.

CONSULTING ENGINEERS

6330 Belmont Road, Suite 4B

Downers Grove, IL 60516

SHT NO. 92

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES
CERMAK RD AND IL RTE 43 (HARLEM AVE)

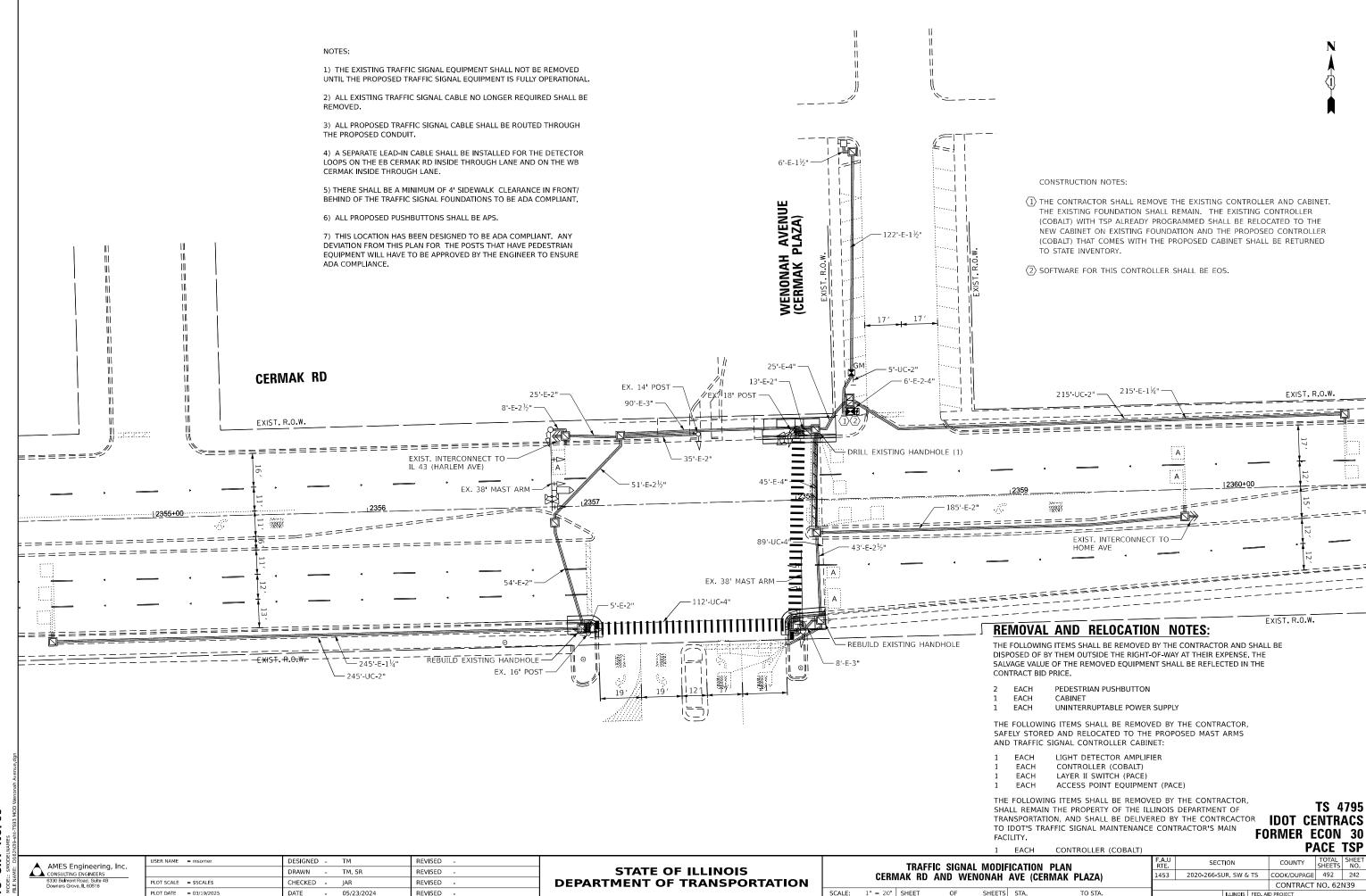
SHEET 1 OF 1 SHEETS STA. TO STA

SCALE: NTS

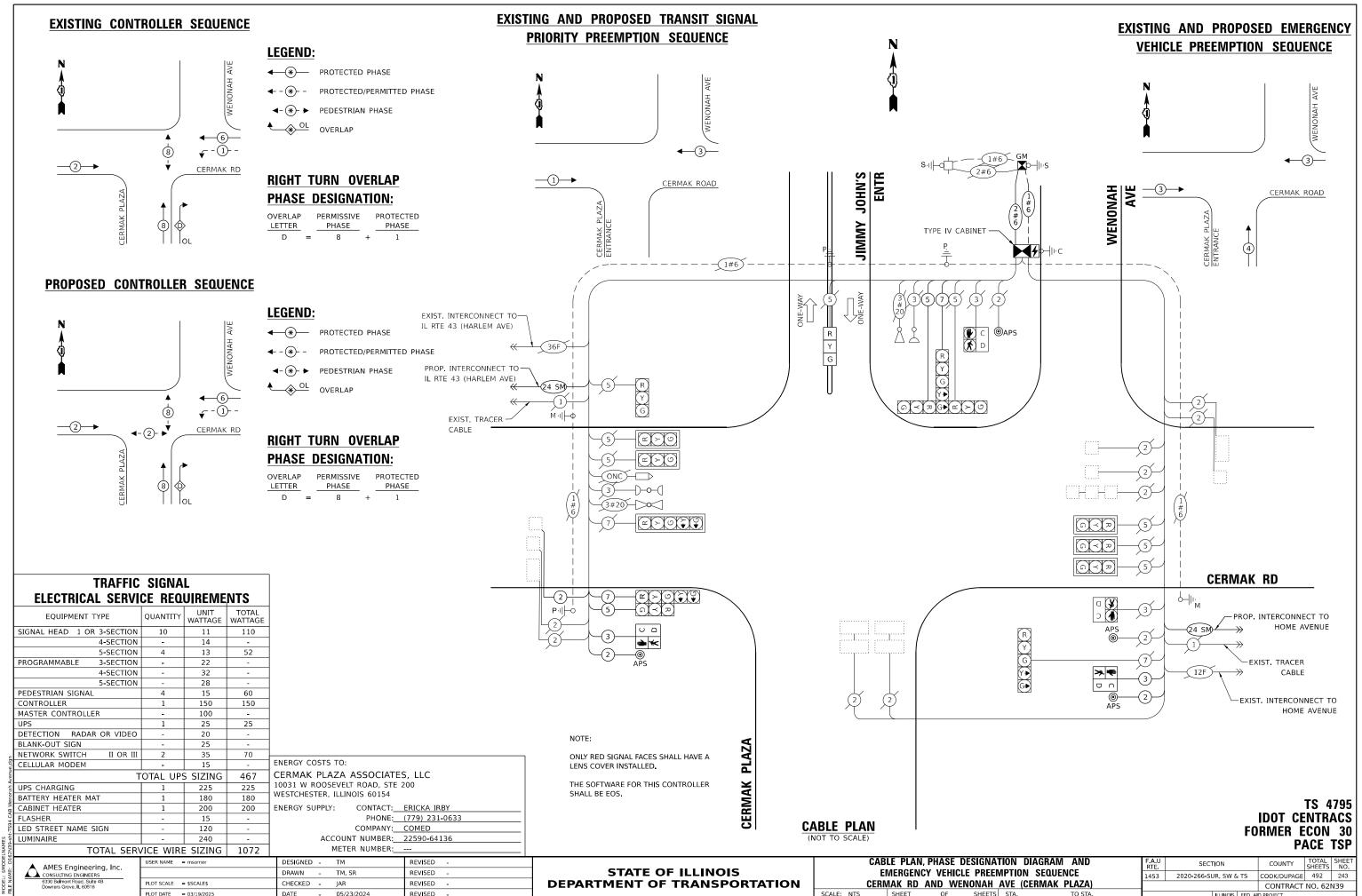
 F.A.U RTE.
 SECTION
 COUNTY SHEETS NO.
 TOTAL SHEETS NO.
 SHEET NO.

 1453
 2020-266-SUR, SW & TS
 COOK/DUPAGE
 492
 241

 CONTRACT NO. 62N39



TS SHT NO. 93



SHT NO. 95 : SMODELNAMES ME: D162N39-Sht-TS95-STN Wenonal

AMES Engineering, Inc. CONSULTING ENGINEERS 6330 Belmont Road: Sulte 4B Downers Grove, IL 60516

USER NAME = msomer DESIGNED TM REVISED DRAWN TM, SR REVISED PLOT SCALE = \$SCALE\$ CHECKED JAR REVISED PLOT DATE = 03/19/2025 DATE 05/23/2024 REVISED

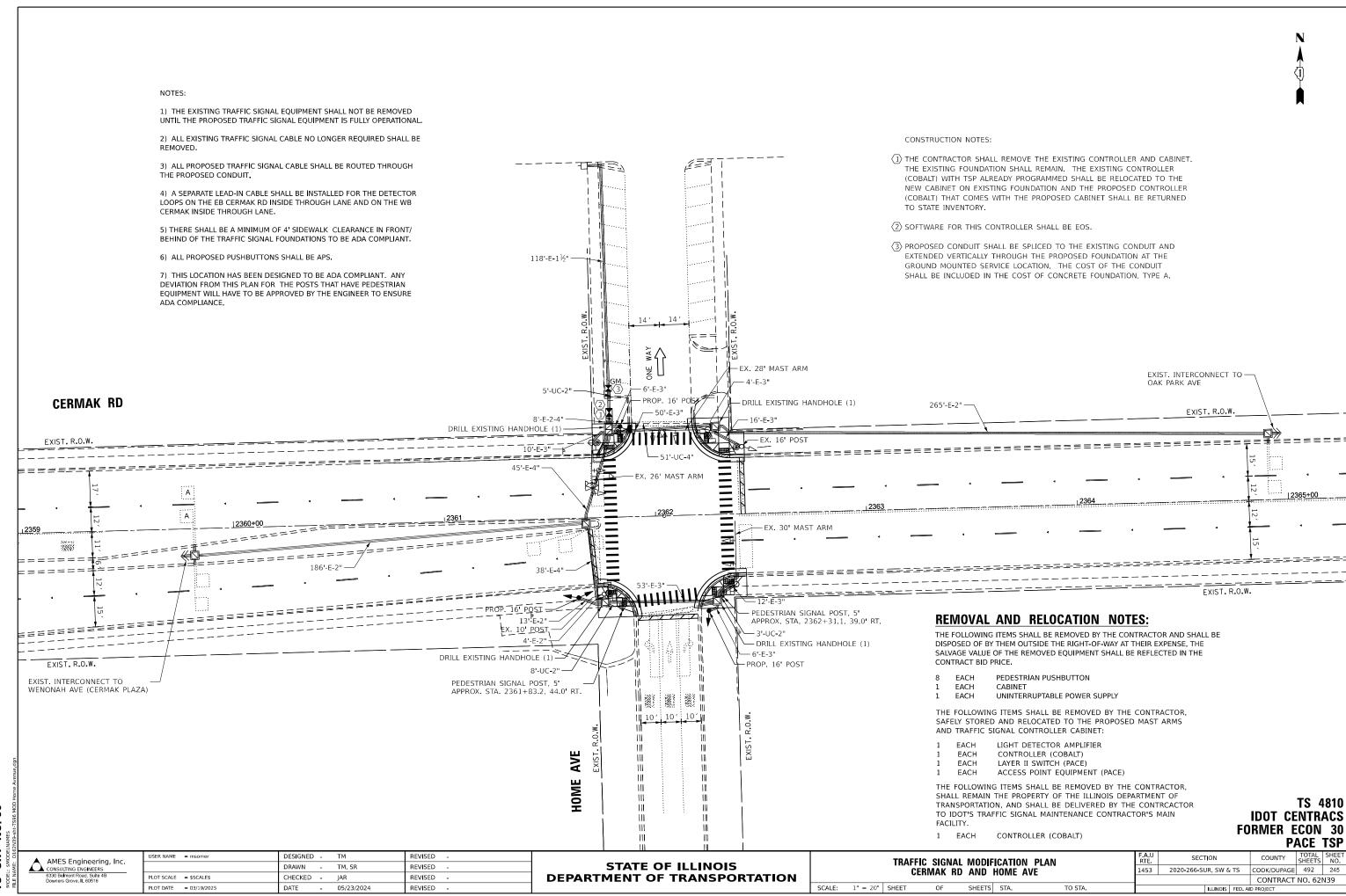
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES CERMAK RD AND WENONAH AVE (CERMAK PLAZA) SHEET 1 OF 1 SHEETS STA. TO STA.

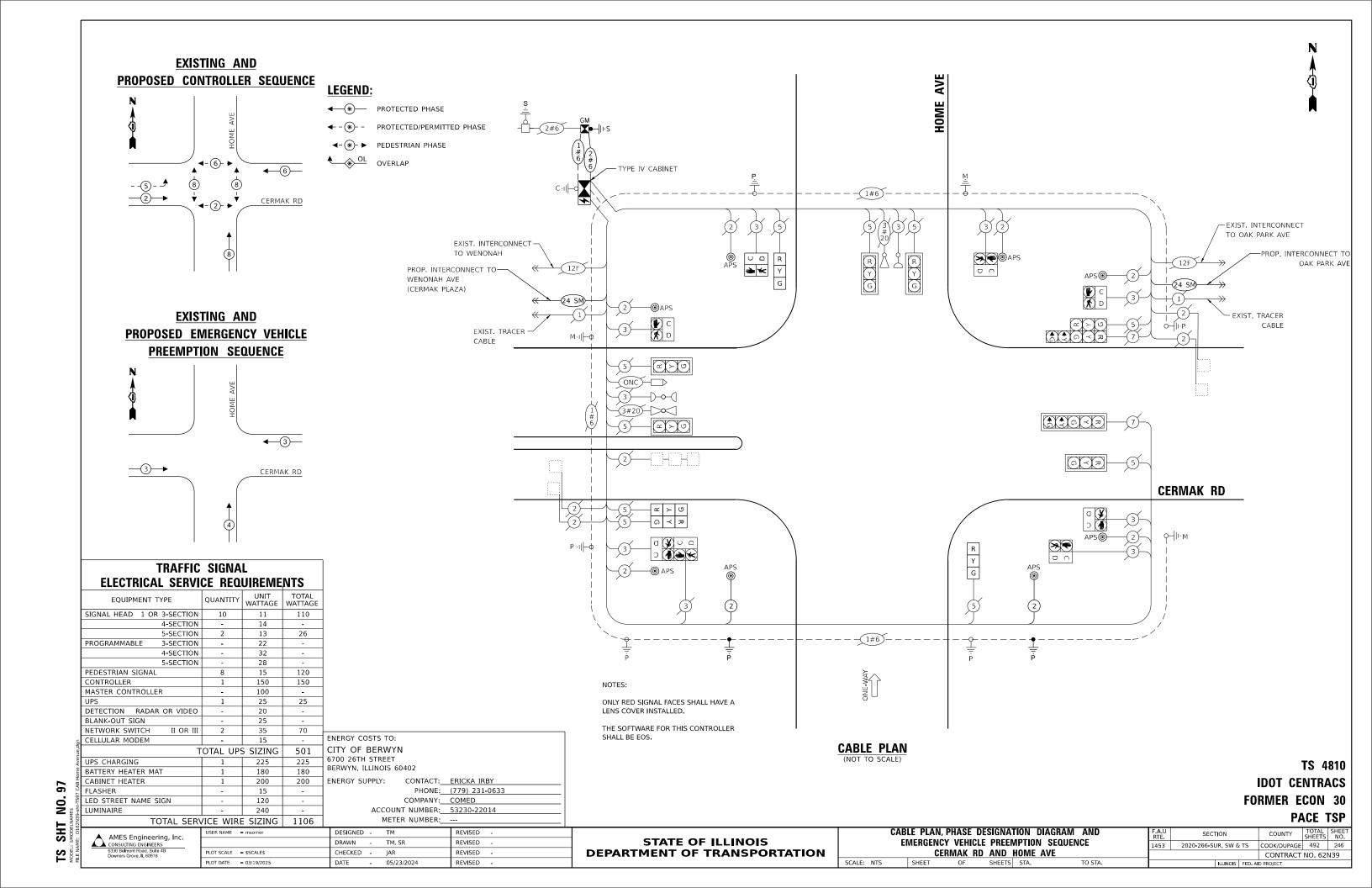
TS 4795 IDOT CENTRACS FORMER ECON 30 PACE TSP					30 30	
	F.A.U SECTION COUNTY TOTAL SHEET NO.					SHEET NO.
	1453	2020-266-SUR, SW &	: TS	COOK/DUPAGE	492	244
	CONTRACT NO. 62N39				N39	
		ILLINOIS	FED. AI	D PROJECT		

SCHEDULE OF QUANTITIES

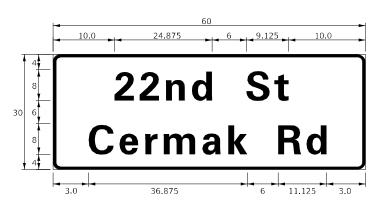
ITEM DESCRIPTION	UNITS	TOTAL QTY.
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	201
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	439
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	457
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	385
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	385
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	507
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	40
CONCRETE FOUNDATION, TYPE A	FOOT	4
DRILL EXISTING HANDHOLE	EACH	1
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1
PEDESTRIAN SIGNAL HEAD, L.E.D., 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2
INDUCTIVE LOOP DETECTOR	EACH	10
RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	385
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REBUILD EXISTING HANDHOLE	EACH	2
LAYER II (DATALINK) SWITCH	EACH	1
ADVANCED TRANSPORTATION CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
UNINTERRUPTABLE POWER SUPPLY AND CABINET, SPECIAL	EACH	1
SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	4
LED SIGNAL FACE, LENS COVER	EACH	14
CENTRACS LICENSE EXPANSION	EACH	1
FIBER OPTIC INTERCONNECT CENTER, 48 PORT	EACH	1
LED PEDESTRIAN SIGNAL MODULE REPLACEMENT	EACH	2
LED SIGNAL MODULE REPLACEMENT	EACH	13



S SHT NO. 96

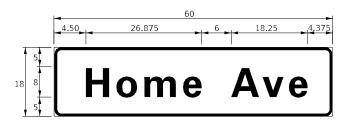


ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE



DESIGN	AREA	SIGN PANEL	SHEETING	QTY.
SERIES	(SQ FT)	TYPE	TYPE	REQUIRED
D	12.5	2	ZZ	

NOTE: FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION PLEASE SEE DISTRICT ONE MAST ARM MOUNTED STREET NAME



DESIGN	AREA	SIGN PANEL	SHEETING	QTY.
SERIES	(SQ FT)	TYPE	TYPE	REQUIRED
D	7.5	2	ZZ	2

NOTE: FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION
PLEASE SEE DISTRICT ONE MAST ARM MOUNTED STREET NAME
SIGNS DETAIL

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
SIGN PANEL - TYPE 1	SQ FT	15
SIGN PANEL - TYPE 2	SQ FT	13
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	11
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	51
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	337
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	40
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	262
TRAFFIC SIGNAL POST, 16 FT.	EACH	3
CONCRETE FOUNDATION, TYPE A	FOOT	4
DRILL EXISTING HANDHOLE	EACH	4
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	4
PEDESTRIAN SIGNAL HEAD, L.E.D., 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	1
INDUCTIVE LOOP DETECTOR	EACH	5
RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
UPGRADE EXISTING CONTROLLER TO NTCIP SPECIAL	EACH	1
PEDESTRIAN SIGNAL POST, 5 FT.	EACH	2
ADVANCED TRANSPORTATION CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
UNINTERRUPTABLE POWER SUPPLY AND CABINET, SPECIAL	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8
CONCRETE FOUNDATION, TYPE A, 12-INCH DIAMETER	FOOT	8
LED SIGNAL FACE, LENS COVER	EACH	12
CENTRACS LICENSE EXPANSION	EACH	1
FIBER OPTIC INTERCONNECT CENTER, 48 PORT	EACH	1
LED PEDESTRIAN SIGNAL MODULE REPLACEMENT	EACH	7
LED SIGNAL MODULE REPLACEMENT	EACH	8

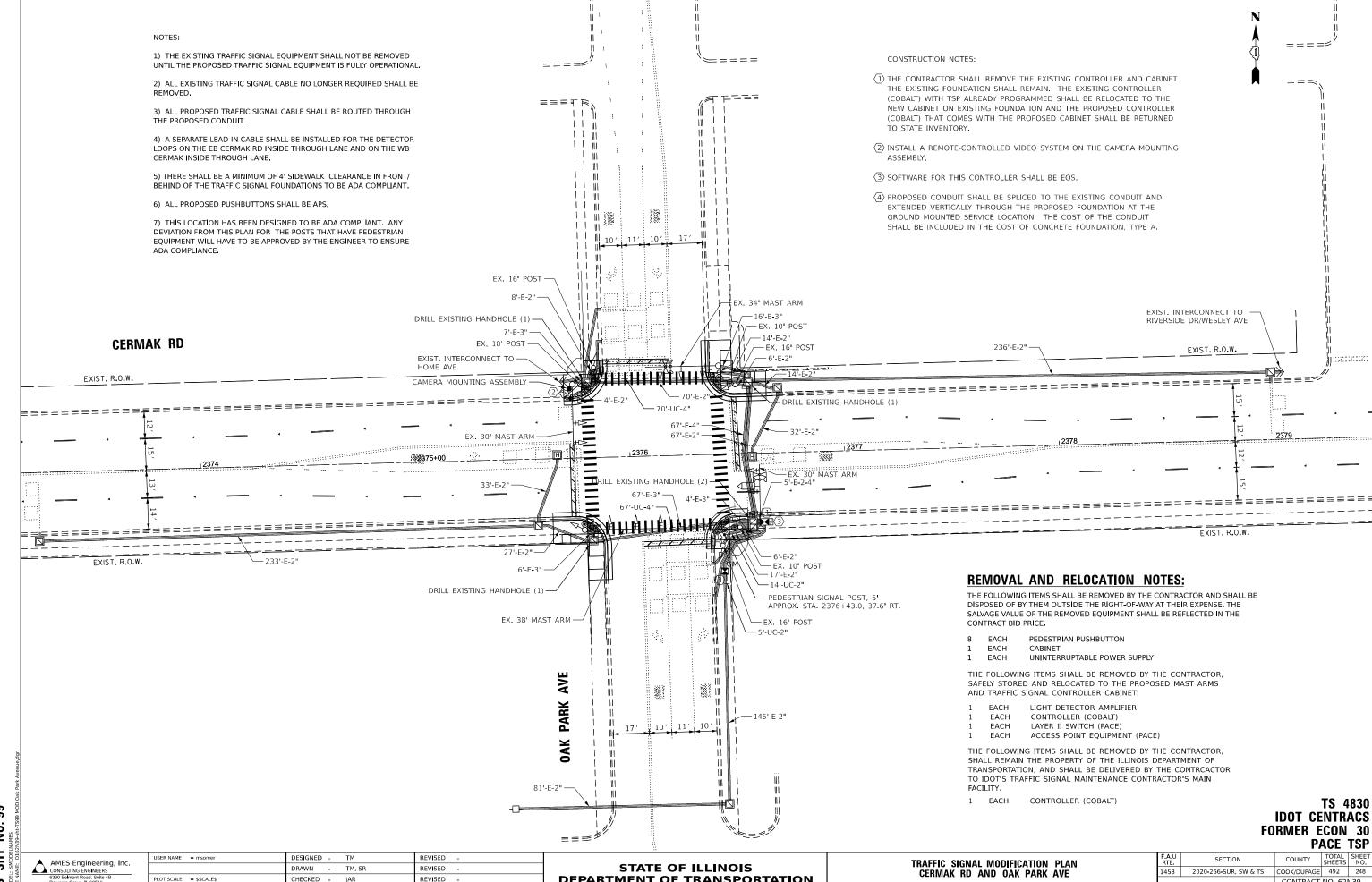
TS 4810 IDOT CENTRACS FORMER ECON 30 PACE TSP

: \$MODE	AMES Engineering, Ind
ODEL	6330 Belmont Road, Suite 4B
LE N/	Downers Grove, IL 60516

SHT NO. 98

USER NAME = msomer	DESIGNED - TM	REVISED -
	DRAWN - TM, SR	REVISED -
PLOT SCALE = \$SCALE\$	CHECKED - JAR	REVISED -
PLOT DATE = 03/19/2025	DATE - 05/23/2024	REVISED -

SCALE: NTS



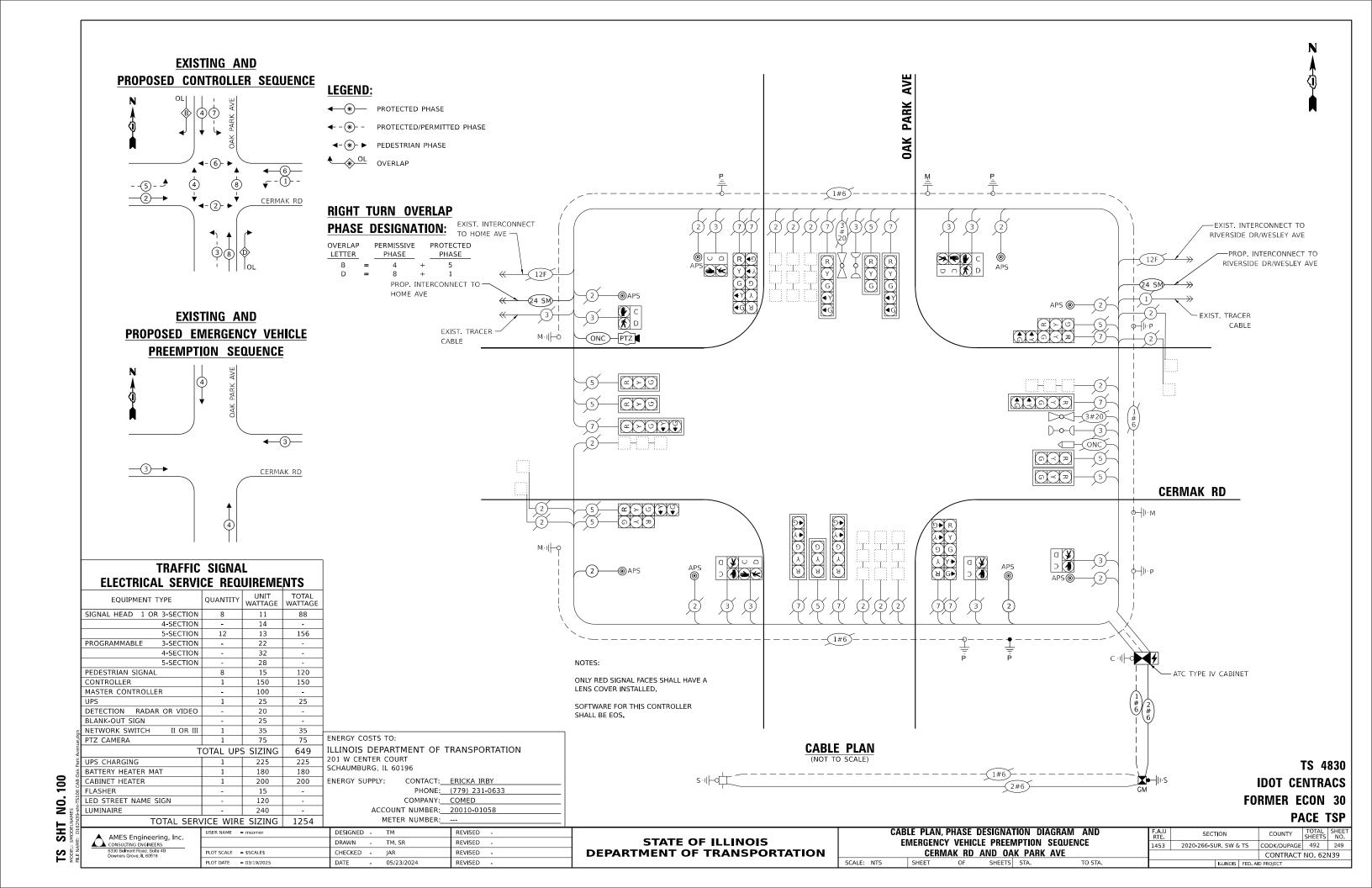
99 S. SHT

CHECKED -REVISED PLOT DATE = 03/19/2025 REVISED 05/23/2024

DEPARTMENT OF TRANSPORTATION

SCALE: 1" = 20' SHEET

CONTRACT NO. 62N39



ITEM DESCRIPTION	UNITS	TOTAL QTY.
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	14
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	137
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	151
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	40
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	27
CONCRETE FOUNDATION, TYPE A	FOOT	4
DRILL EXISTING HANDHOLE	EACH	5
INDUCTIVE LOOP DETECTOR	EACH	12
RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
OUTDOOR RATED NETWORK CABLE	FOOT	228
SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
REMOTE CONTROLLED VIDEO SYSTEM	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
UPGRADE EXISTING CONTROLLER TO NTCIP SPECIAL	EACH	1
PEDESTRIAN SIGNAL POST, 5'	EACH	1
ADVANCED TRANSPORTATION CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
UNINTERRUPTABLE POWER SUPPLY AND CABINET, SPECIAL	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8
CONCRETE FOUNDATION, TYPE A, 12-INCH DIAMETER	FOOT	4
LED SIGNAL FACE, LENS COVER	EACH	20
CAMERA MOUNTING ASSEMBLY	EACH	1
CENTRACS LICENSE EXPANSION	EACH	1
FIBER OPTIC INTERCONNECT CENTER, 48 PORT	EACH	1
LED PEDESTRIAN SIGNAL MODULE REPLACEMENT	EACH	8
LED SIGNAL MODULE REPLACEMENT	EACH	20

TS 4830 IDOT CENTRACS FORMER ECON 30 PACE TSP

AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Belmont Road, Suite 4B
Downers Grove, IL 60516

SHT NO. 101

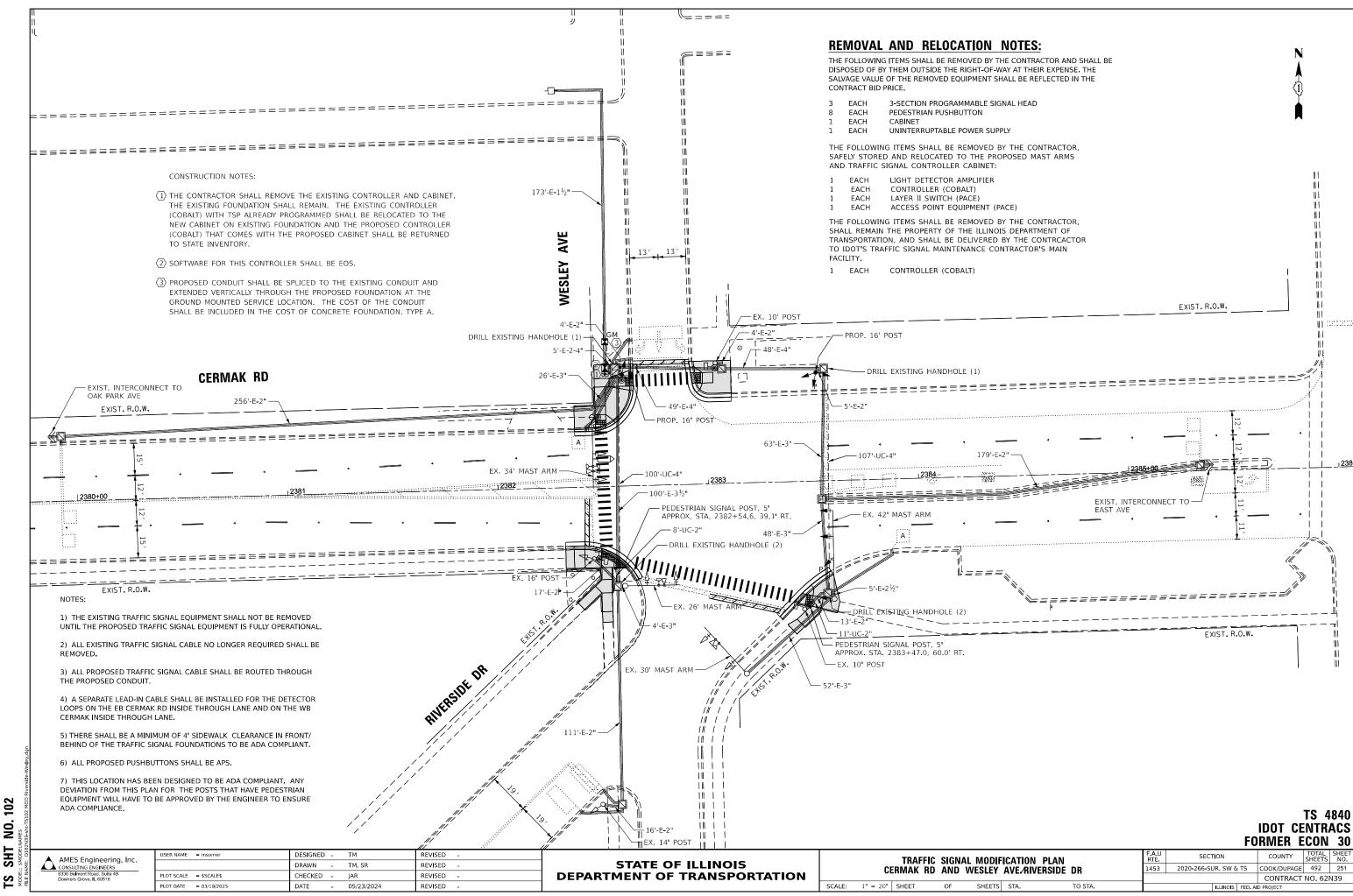
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES
CERMAK RD AND OAK PARK AVE

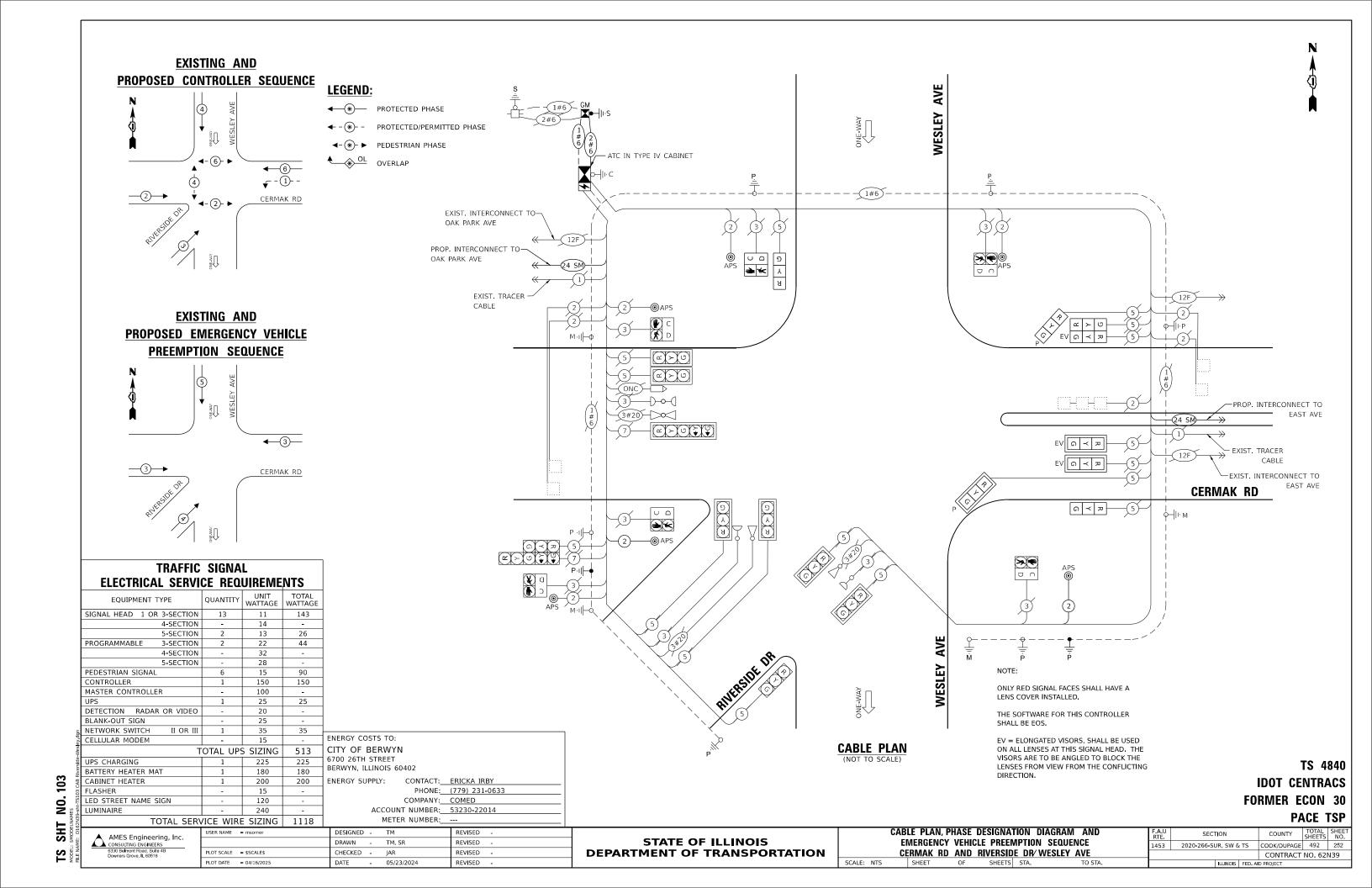
SHEET 1 OF 1 SHEETS STA.

TO STA.

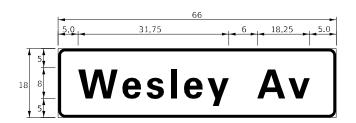
SCALE: NTS



SHT

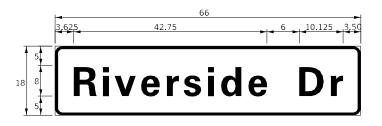


ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE



DESIGN	AREA	SIGN PANEL	SHEETING	QTY.
SERIES	(SQ FT)	TYPE	TYPE	REQUIRED
D	8.25	1	ZZ	3

NOTE: FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION PLEASE SEE DISTRICT ONE MAST ARM MOUNTED STREET NAME SIGNS DETAIL.



DESIGN	AREA	SIGN PANEL	SHEETING	QTY.
SERIES	(SO FT)	TYPE	TYPE	REOUIRED
D	8.25	1	ZZ	2

NOTE: FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION PLEASE SEE DISTRICT ONE MAST ARM MOUNTED STREET NAME SIGNS DETAIL.

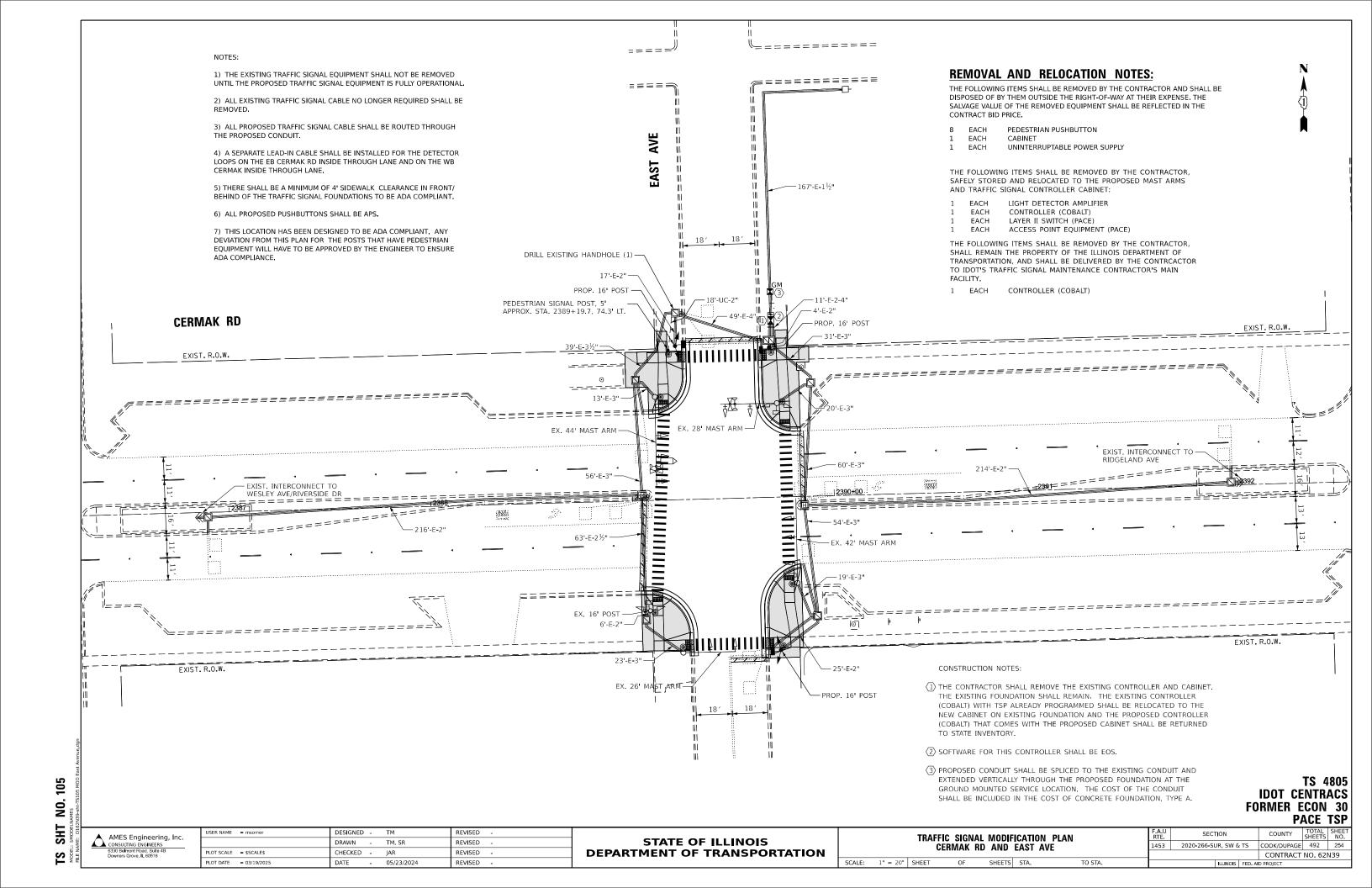
SCHEDULE OF QUANTITIES

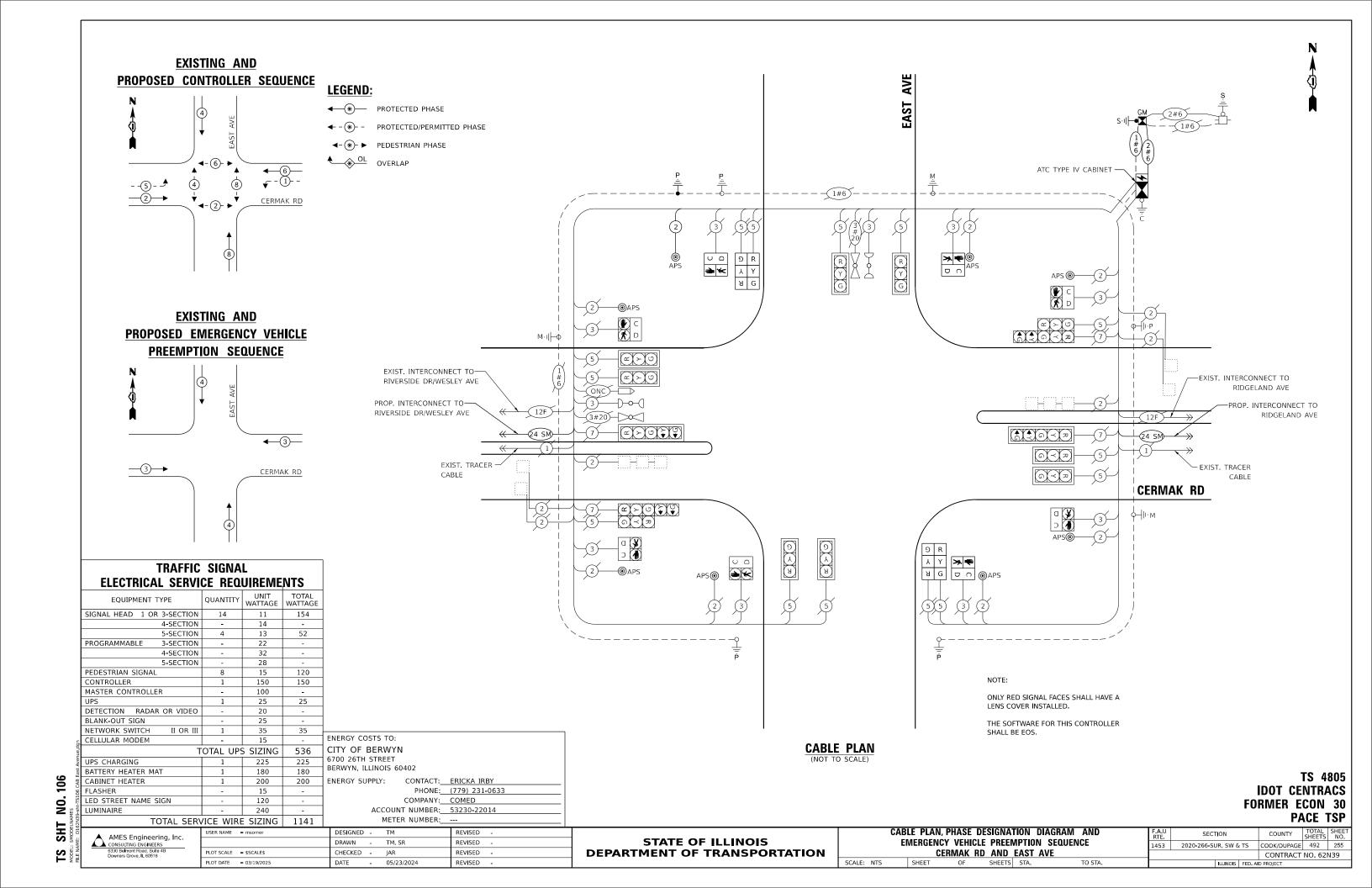
ITEM DESCRIPTION	UNITS	TOTAL QTY.
SIGN PANEL - TYPE 1	SQ FT	42
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	19
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	207
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	419
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	40
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	349
TRAFFIC SIGNAL POST, 16 FT.	EACH	2
CONCRETE FOUNDATION, TYPE A	FOOT	4
DRILL EXISTING HANDHOLE	EACH	6
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	2
OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1
OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	1
PEDESTRIAN SIGNAL HEAD, L.E.D., 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	1
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	3
INDUCTIVE LOOP DETECTOR	EACH	4
RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
UPGRADE EXISTING CONTROLLER TO NTCIP SPECIAL	EACH	1
PEDESTRIAN SIGNAL POST, 5 FT.	EACH	2
ADVANCED TRANSPORTATION CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
UNINTERRUPTABLE POWER SUPPLY AND CABINET, SPECIAL	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	6
CONCRETE FOUNDATION, TYPE A, 12-INCH DIAMETER	FOOT	8
LED SIGNAL FACE, VISOR HEATER	EACH	18
CENTRACS LICENSE EXPANSION	EACH	1
FIBER OPTIC INTERCONNECT CENTER, 48 PORT	EACH	1
LED PEDESTRIAN SIGNAL MODULE REPLACEMENT	EACH	5
LED SIGNAL MODULE REPLACEMENT	EACH	10
LENS SIGNAL FACE, ELONGATED VISOR	EACH	3

TS 4840
IDOT CENTRACS
FORMER ECON 30
PACE TSP

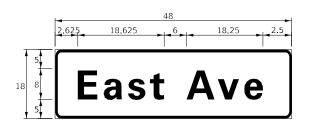
T NO. 104	\$MODELNAME\$ IE: D162N39-sht-TS104-STN Riv	
SHT	WE:	AMES Engineering, Inconsulting Engineers
လ	ODEL: LE NAI	6330 Belmont Road, Suite 4B Downers Grove, IL 60516

USER NAME = msomer	DESIGNED	-	TM	REVISED -	Ξ
	DRAWN	-	TM, SR	REVISED -	
PLOT SCALE = \$SCALE\$	CHECKED	-	JAR	REVISED -	
PLOT DATE = 03/19/2025	DATE	-	05/23/2024	REVISED -	



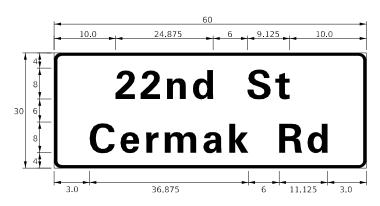


ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE



DESIGN	AREA	SIGN PANEL	SHEETING	QTY.
SERIES	(SQ FT)	TYPE	TYPE	REQUIRED
D	6.00	1	ZZ	

NOTE: FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION PLEASE SEE DISTRICT ONE MAST ARM MOUNTED STREET NAME SIGNS DETAIL.



DESIGN	AREA	SIGN PANEL	SHEETING	QTY.
SERIES	(SQ FT)	TYPE	TYPE	REQUIRED
D	12.5	2	ZZ	2

NOTE: FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION PLEASE SEE DISTRICT ONE MAST ARM MOUNTED STREET NAME SIGNS DETAIL

SCHEDULE OF QUANTITIES

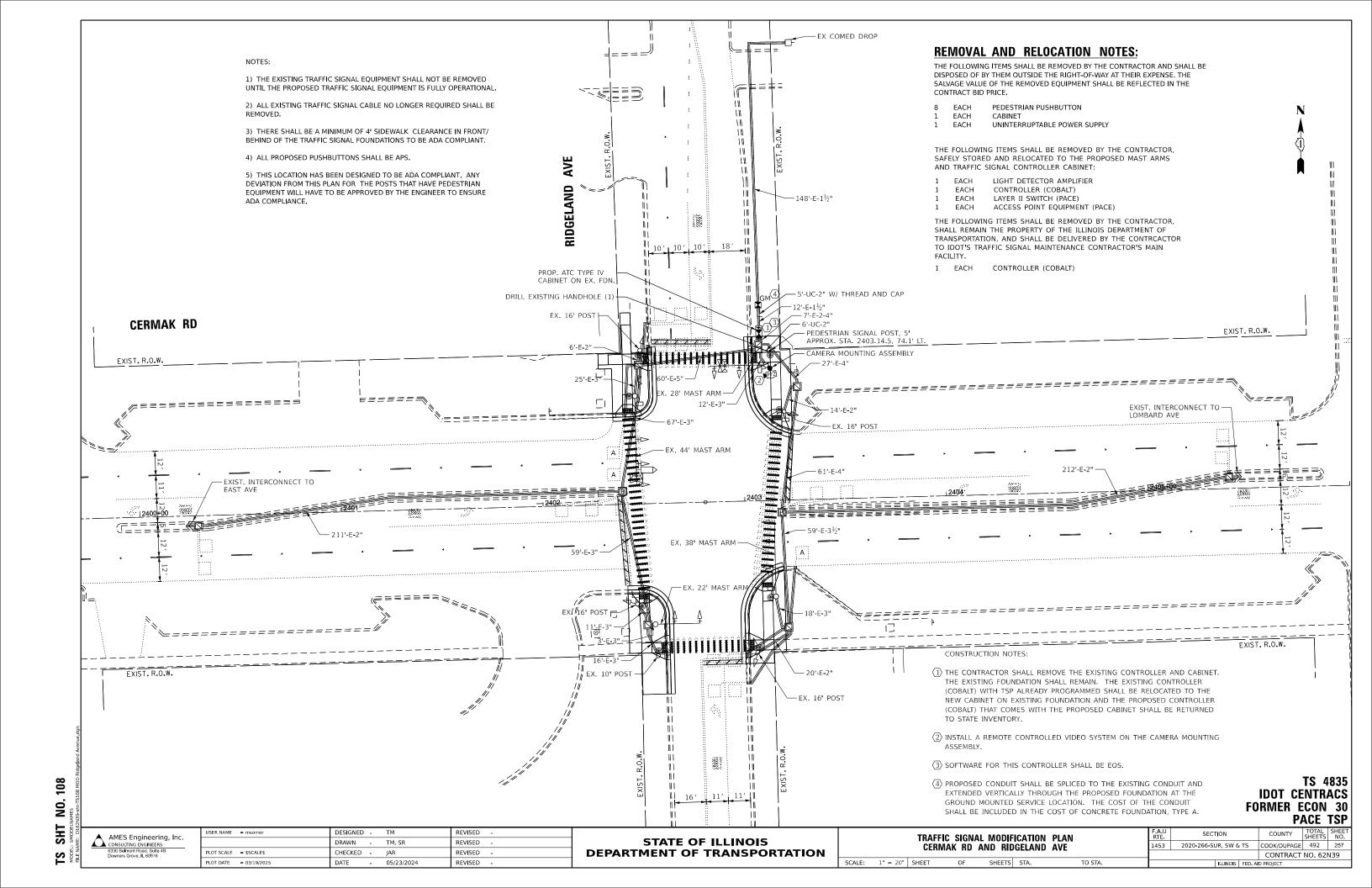
ITEM DESCRIPTION	UNITS	TOTAL QTY.
SIGN PANEL - TYPE 1	SQ FT	12
SIGN PANEL - TYPE 2	SQ FT	25
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	18
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	102
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	40
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	86
TRAFFIC SIGNAL POST, 16 FT.	EACH	3
CONCRETE FOUNDATION, TYPE A	FOOT	4
DRILL EXISTING HANDHOLE	EACH	1
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	4
PEDESTRIAN SIGNAL HEAD, L.E.D., 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	3
INDUCTIVE LOOP DETECTOR	EACH	6
RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
UPGRADE EXISTING CONTROLLER TO NTCIP SPECIAL	EACH	1
PEDESTRIAN SIGNAL POST, 5 FT.	EACH	1
ADVANCED TRANSPORTATION CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
UNINTERRUPTABLE POWER SUPPLY AND CABINET, SPECIAL	EACH	1
SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	FOOT	8
CONCRETE FOUNDATION, TYPE A, 12-INCH DIAMETER	EACH	4
LED SIGNAL FACE, LENS COVER	EACH	18
CENTRACS LICENSE EXPANSION	EACH	1
FIBER OPTIC INTERCONNECT CENTER, 48 PORT	EACH	1
LED PEDESTRIAN SIGNAL MODULE REPLACEMENT	EACH	5
LED SIGNAL MODULE REPLACEMENT	EACH	14

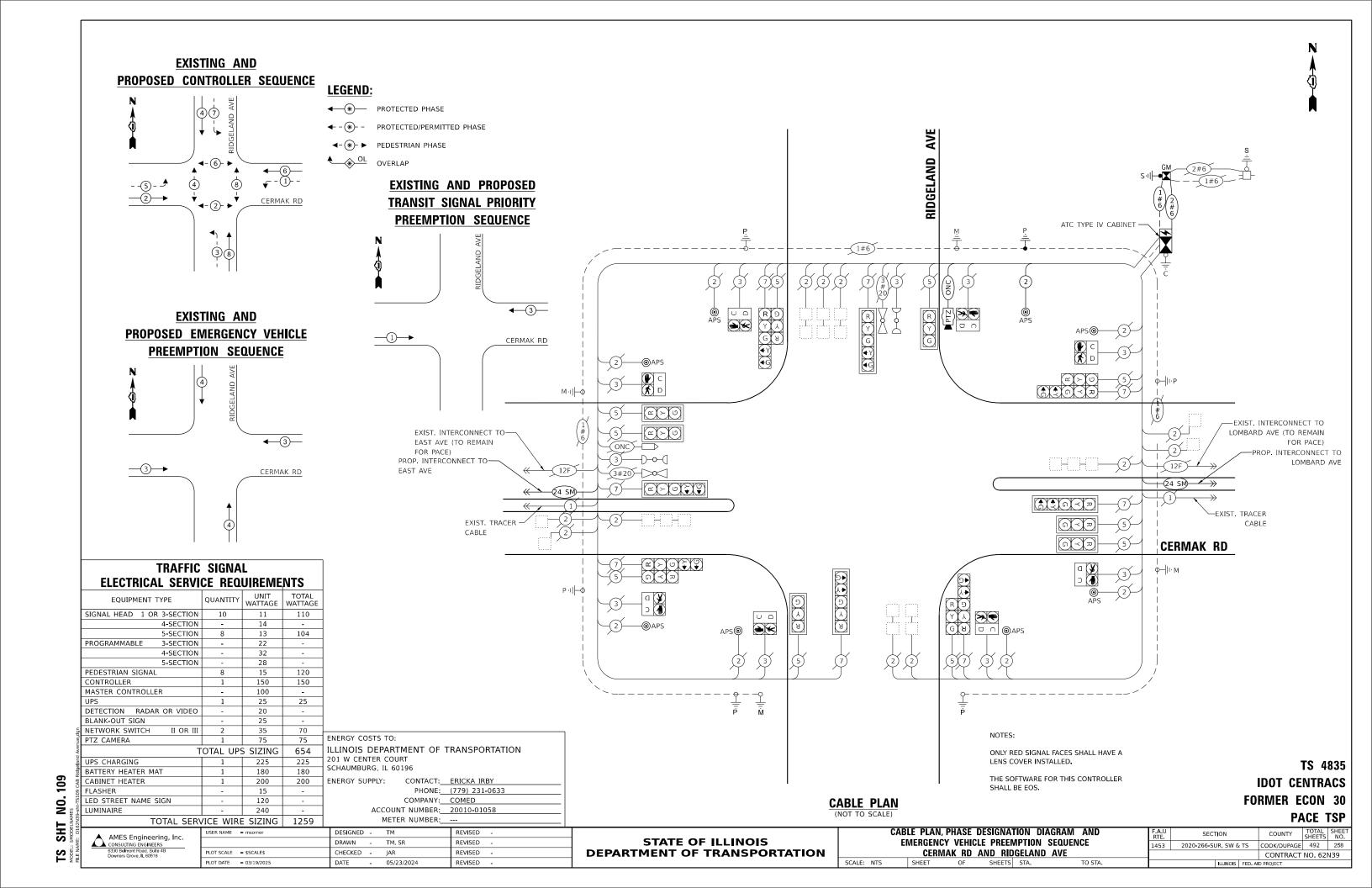
TS 4805 IDOT CENTRACS FORMER ECON 30 PACE TSP

F NO. 107	\$MODELNAME\$ E: D162N39-sht-TS107-STN Eas	
SHT	. 51	AMES Engineering, Inconsulting Engineers
လှ	ODEL:	6330 Belmont Road, Suite 4B Downers Grove, IL 60516

					_
USER NAME = msomer	DESIGNED	-	TM	REVISED -	
	DRAWN	-	TM, SR	REVISED -	
PLOT SCALE = \$SCALE\$	CHECKED	-	JAR	REVISED -	
PLOT DATE = 03/19/2025	DATE	-	05/23/2024	REVISED -	

SCALE: NTS





ITEM DESCRIPTION	UNITS	TOTAL QTY.
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	6
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 2C	FOOT	37
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	40
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	21
CONCRETE FOUNDATION, TYPE A	FOOT	4
DRILL EXISTING HANDHOLE	EACH	1
INDUCTIVE LOOP DETECTOR	EACH	6
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
OUTDOOR RATED NETWORK CABLE	FOOT	84
REMOTE CONTROLLED VIDEO SYSTEM	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
UPGRADE EXISTING CONTROLLER TO NTCIP SPECIAL	EACH	1
PEDESTRIAN SIGNAL POST, 5'	EACH	1
ADVANCED TRANSPORTATION CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
UNINTERRUPTABLE POWER SUPPLY AND CABINET, SPECIAL	EACH	1
SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8
CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	4
LED SIGNAL FACE, LENS COVER	EACH	18
CAMERA MOUNTING ASSEMBLY	EACH	1
CENTRACS LICENSE EXPANSION	EACH	1
FIBER OPTIC INTERCONNECT CENTER, 48 PORT	EACH	1
LED PEDESTRIAN SIGNAL MODULE REPLACEMENT	EACH	8
LED SIGNAL MODULE REPLACEMENT	EACH	18

TS 4835
IDOT CENTRACS
FORMER ECON 30
PACE TSP

COUNTY TOTAL SHEET NO.

TS COOK/DUPAGE 492 259
CONTRACT NO. 62N39
FED. AID PROJECT

AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Belmont Road, Suite 4B
Downers Grove, IL 60516

USER NAME = msomer	DESIGNED	-	TM	REVISED	-
	DRAWN	-	TM, SR	REVISED	-
PLOT SCALE = \$SCALE\$	CHECKED	-	JAR	REVISED	-
PLOT DATE = 03/19/2025	DATE	-	05/23/2024	REVISED	-

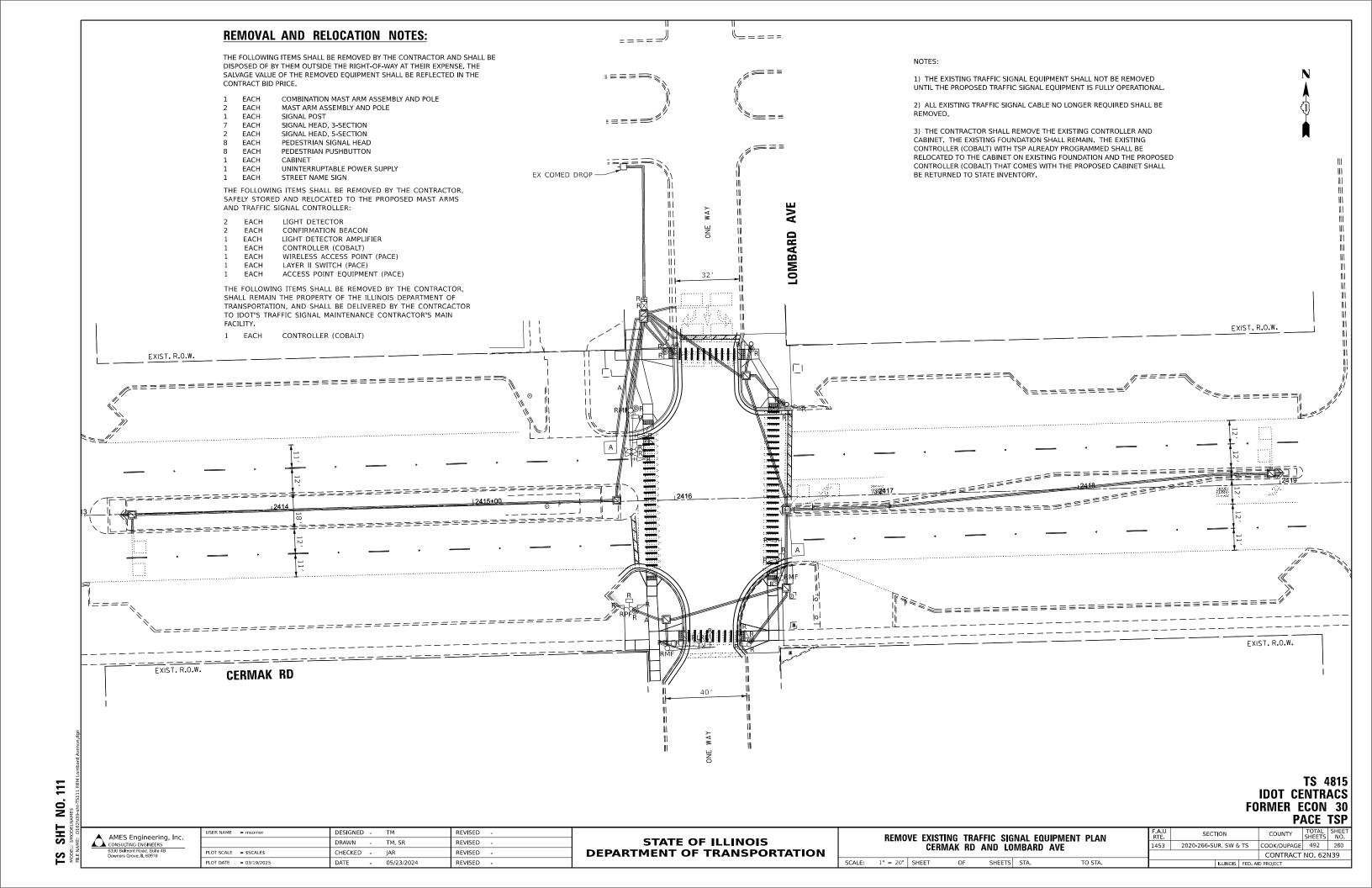
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

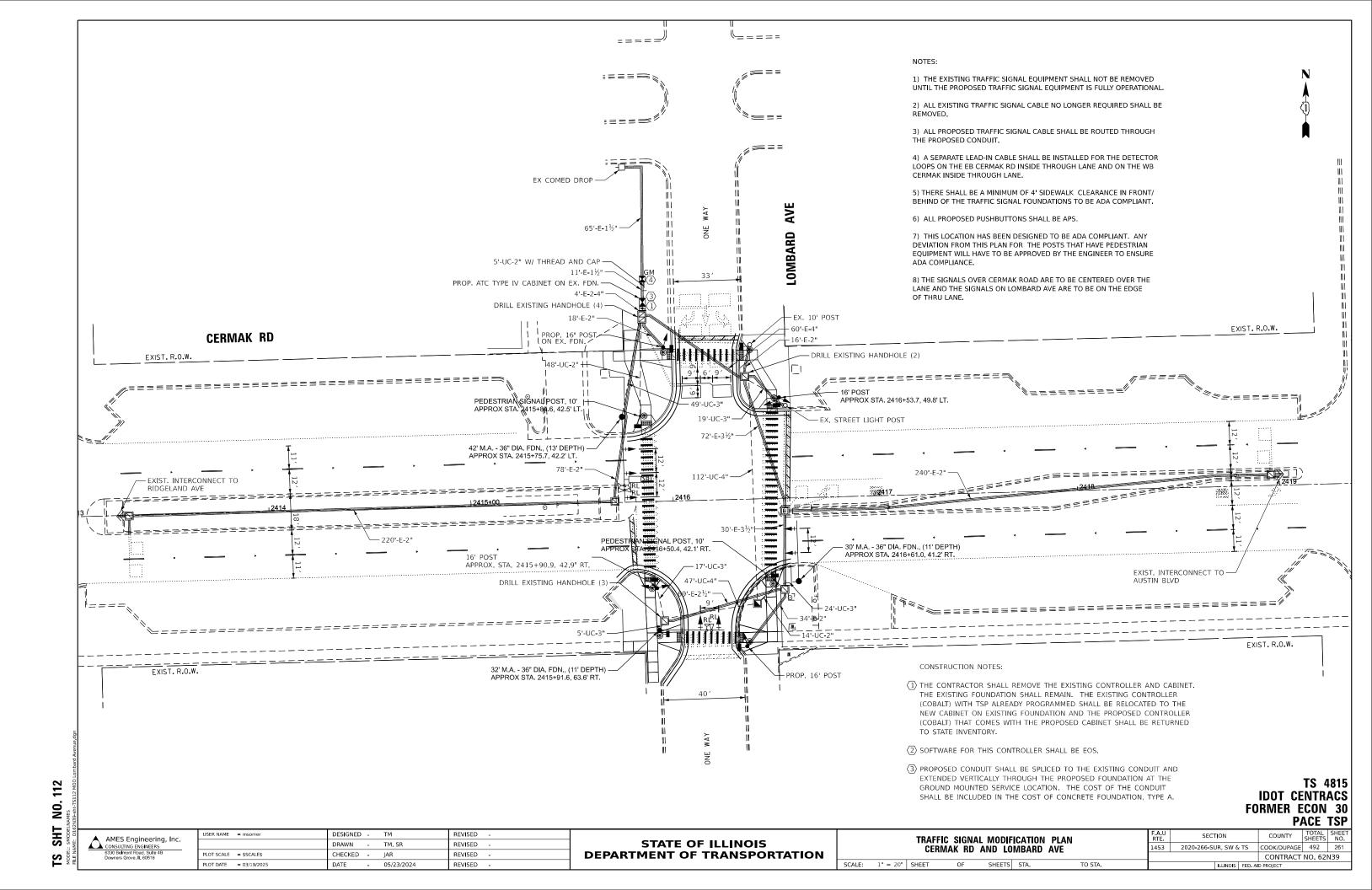
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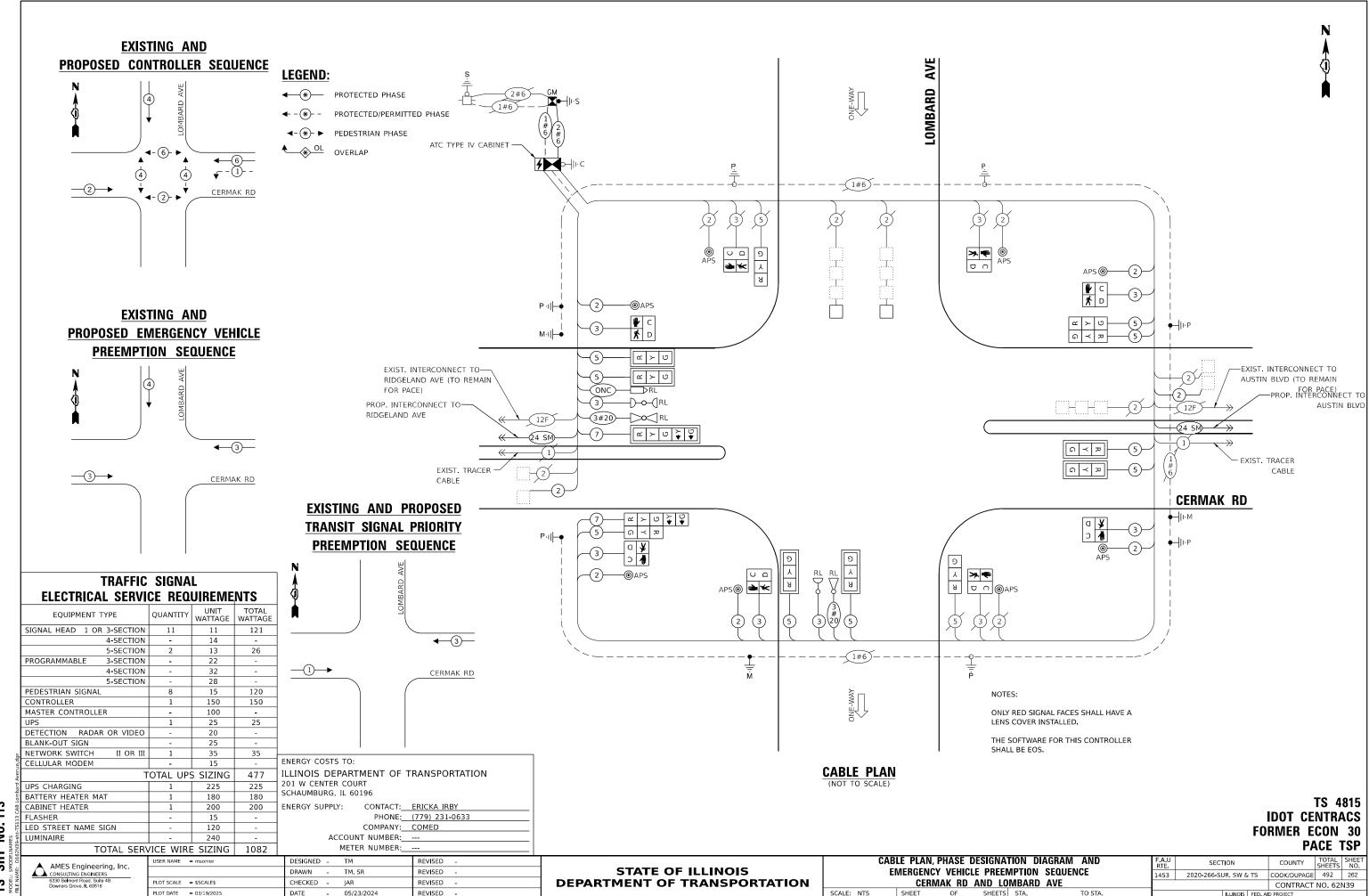
SCALE: NTS

F.A.U RTE	SECT	TION		COUNTY	TOTAL SHEETS	SH
1453	2020-266-SI	JR, SW &	COOK/DUPAGE	492	2	
				CONTRACT	NO. 621	139
		ILLINOIS	FED. AI	D PROJECT		

SHT NO. 110

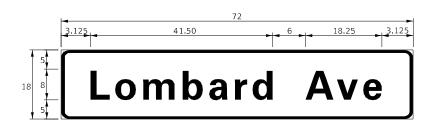




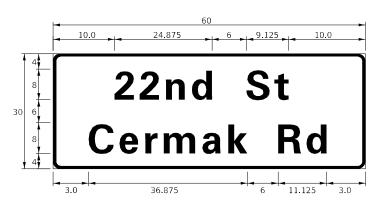


SHT NO. 113

ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE



DESIGN	AREA	SIGN PANEL	SHEETING	QTY.
SERIES	(SQ FT)	TYPE	TYPE	REQUIRED
D	9.00	1	ZZ	



DESIGN	AREA	SIGN PANEL	SHEETING	QTY.
SERIES	(SQ FT)	TYPE	TYPE	REQUIRED
D	12.5	2	ZZ	

NOTE: FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION PLEASE SEE DISTRICT ONE MAST ARM MOUNTED STREET NAME SIGNS DETAIL,

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
SIGN PANEL - TYPE 1	SQ FT	18
SIGN PANEL - TYPE 2	SQ FT	13
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	62
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	114
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	159
HANDHOLE	EACH	1
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1045
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1561
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1986
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	451
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	750
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	40
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	678
TRAFFIC SIGNAL POST, 16 FT.	EACH	4
STEEL MAST ARM ASSEMBLY AND POLE, 30 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 32 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 42 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	12
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	35
DRILL EXISTING HANDHOLE	EACH	9
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	6
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	5
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	1
PEDESTRIAN SIGNAL HEAD, L.E.D., 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	7
INDUCTIVE LOOP DETECTOR	EACH	5
DETECTOR LOOP, TYPE I	FOOT	81
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	2
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	2761
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	3
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	475
OUTDOOR RATED NETWORK CABLE	FOOT	118
SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
UPGRADE EXISTING CONTROLLER TO NTCIP SPECIAL	EACH	1
PEDESTRIAN SIGNAL POST, 10'	EACH	2
ADVANCED TRANSPORTATION CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
UNINTERRUPTABLE POWER SUPPLY AND CABINET, SPECIAL	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8
CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	8
LED SIGNAL FACE, LENS COVER	EACH	13
CENTRACS LICENSE EXPANSION	EACH	1
FIBER OPTIC INTERCONNECT CENTER, 48 PORT	EACH	1

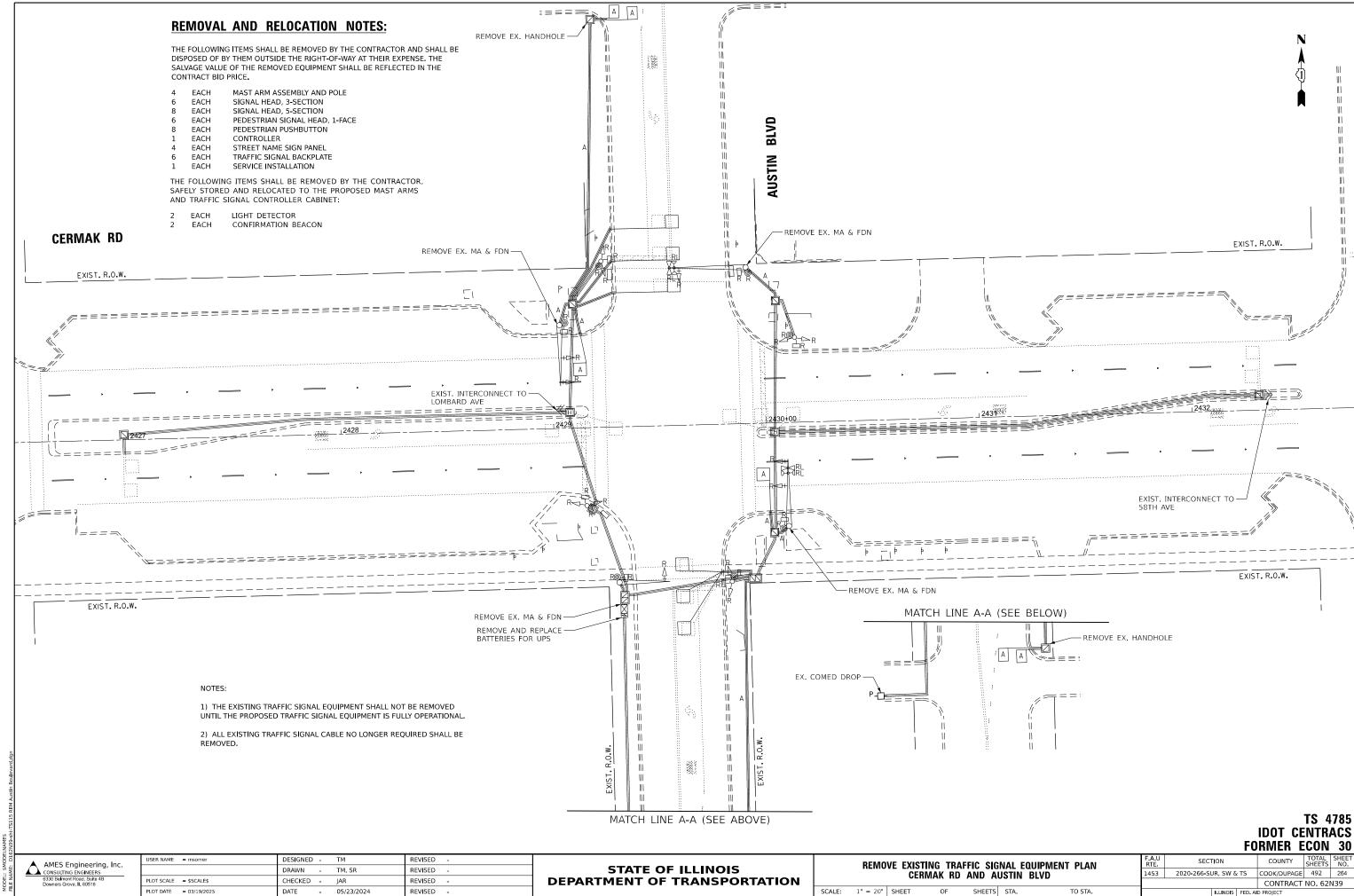
* - 100% COST TO TOWN OF CICERO

SCALE: NTS

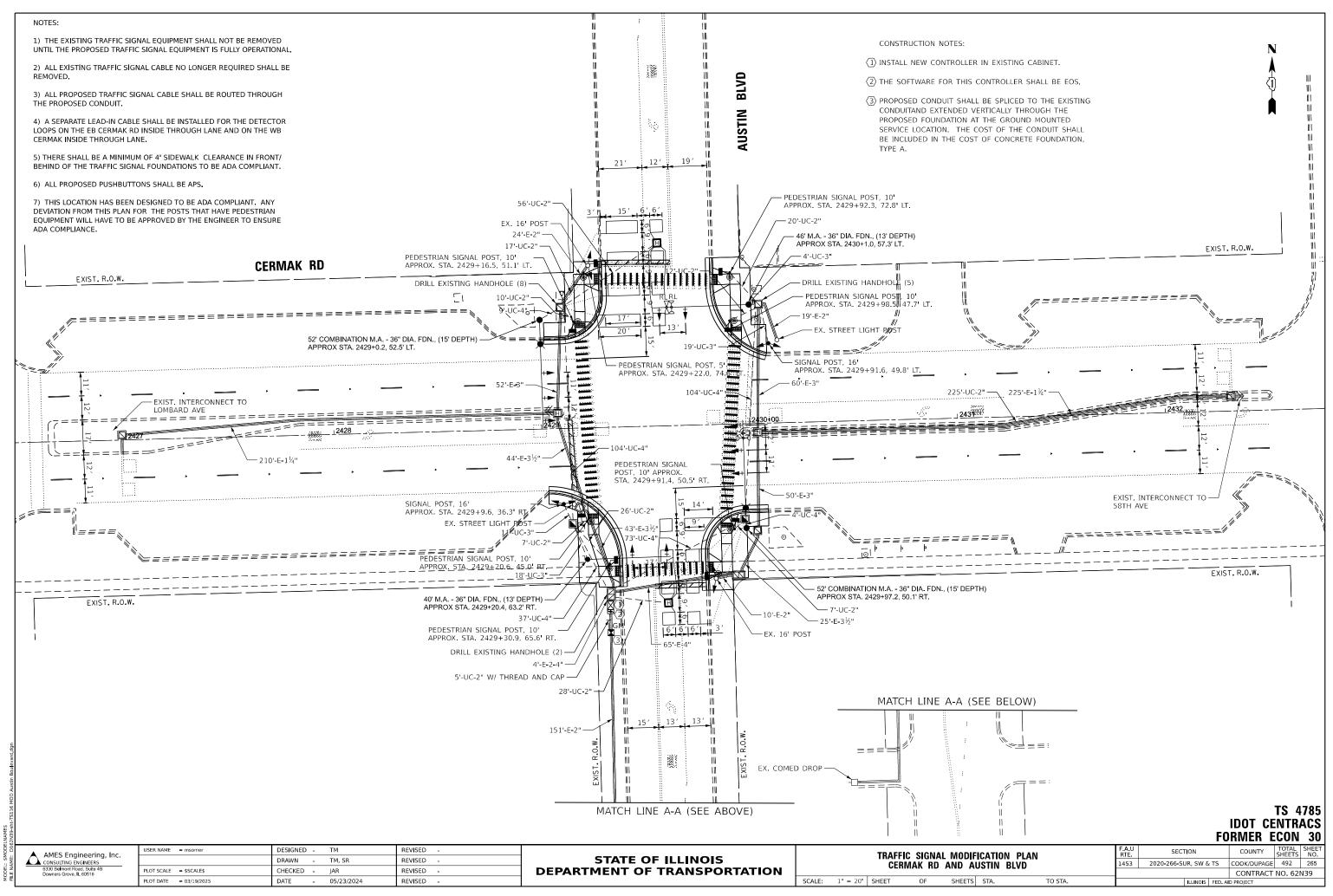
TS 4815 IDOT CENTRACS FORMER ECON 30 PACE TSP

AMES Engineering, Inc. consulting engineers 6330 Belmont Road, Sulle 48 Downers Grove, It 805016

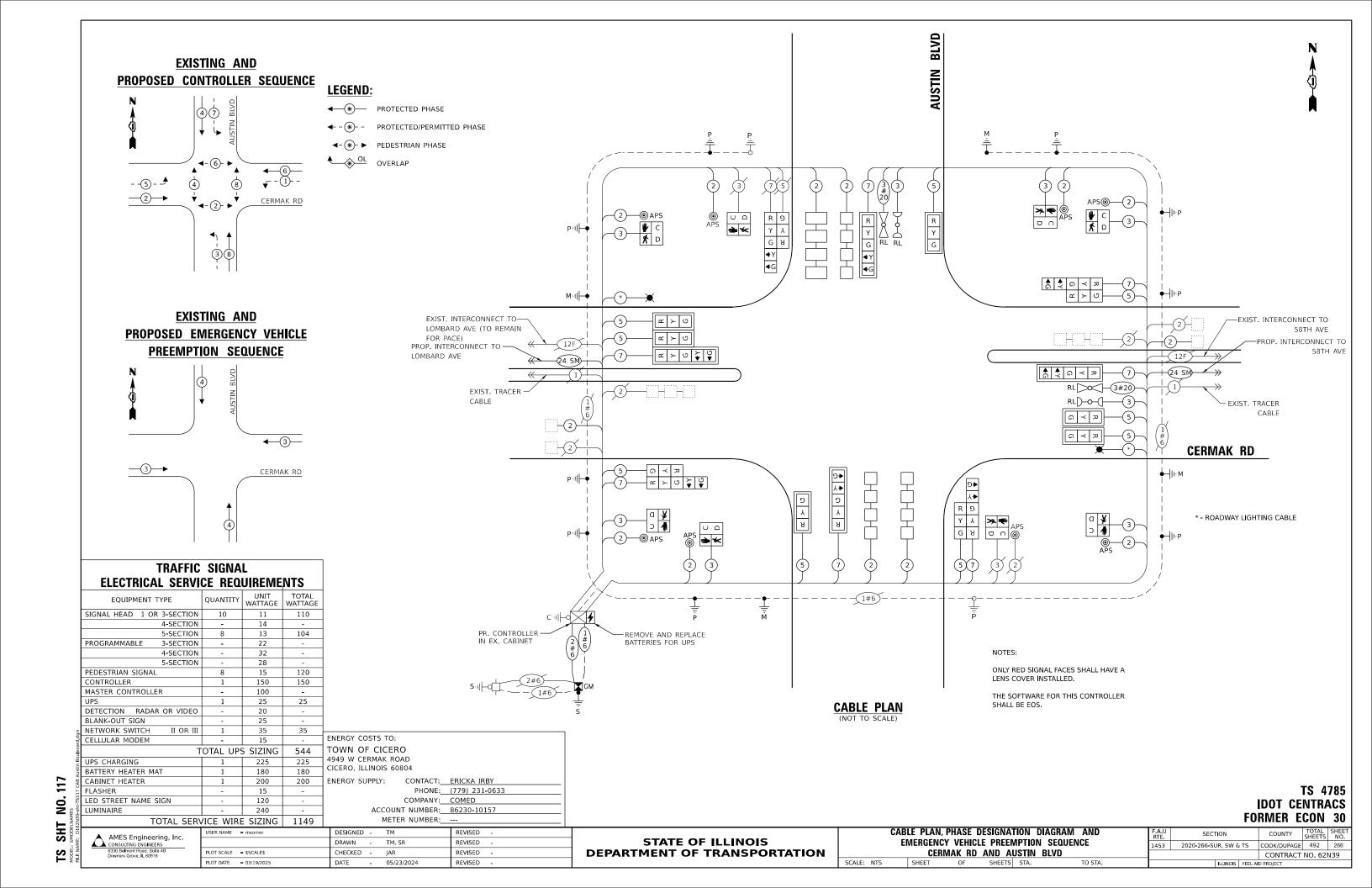
USER NAME = msomer	DESIGNED	-	TM	REVISED -
	DRAWN	-	TM, SR	REVISED -
PLOT SCALE = \$SCALE\$	CHECKED	-	JAR	REVISED -
PLOT DATE = 03/19/2025	DATE	-	05/23/2024	REVISED -



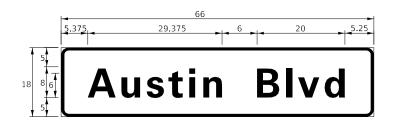
S SHT NO. 115



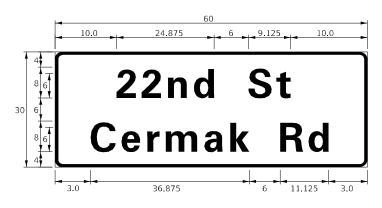
S SHT NO. 116



ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE



DESIGN	AREA	SIGN PANEL	SHEETING	QTY.
SERIES	(SQ FT)	TYPE	TYPE	REQUIRED
D	8.25	1	ZZ	



DESIGN	AREA	SIGN PANEL	SHEETING	QTY.
SERIES	(SQ FT)	TYPE	TYPE	REQUIRED
D	12.5	2	ZZ	2

NOTE: FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION PLEASE SEE DISTRICT ONE MAST ARM MOUNTED STREET NAME SIGNS DETAIL.

SCHEDULE OF QUANTITIES

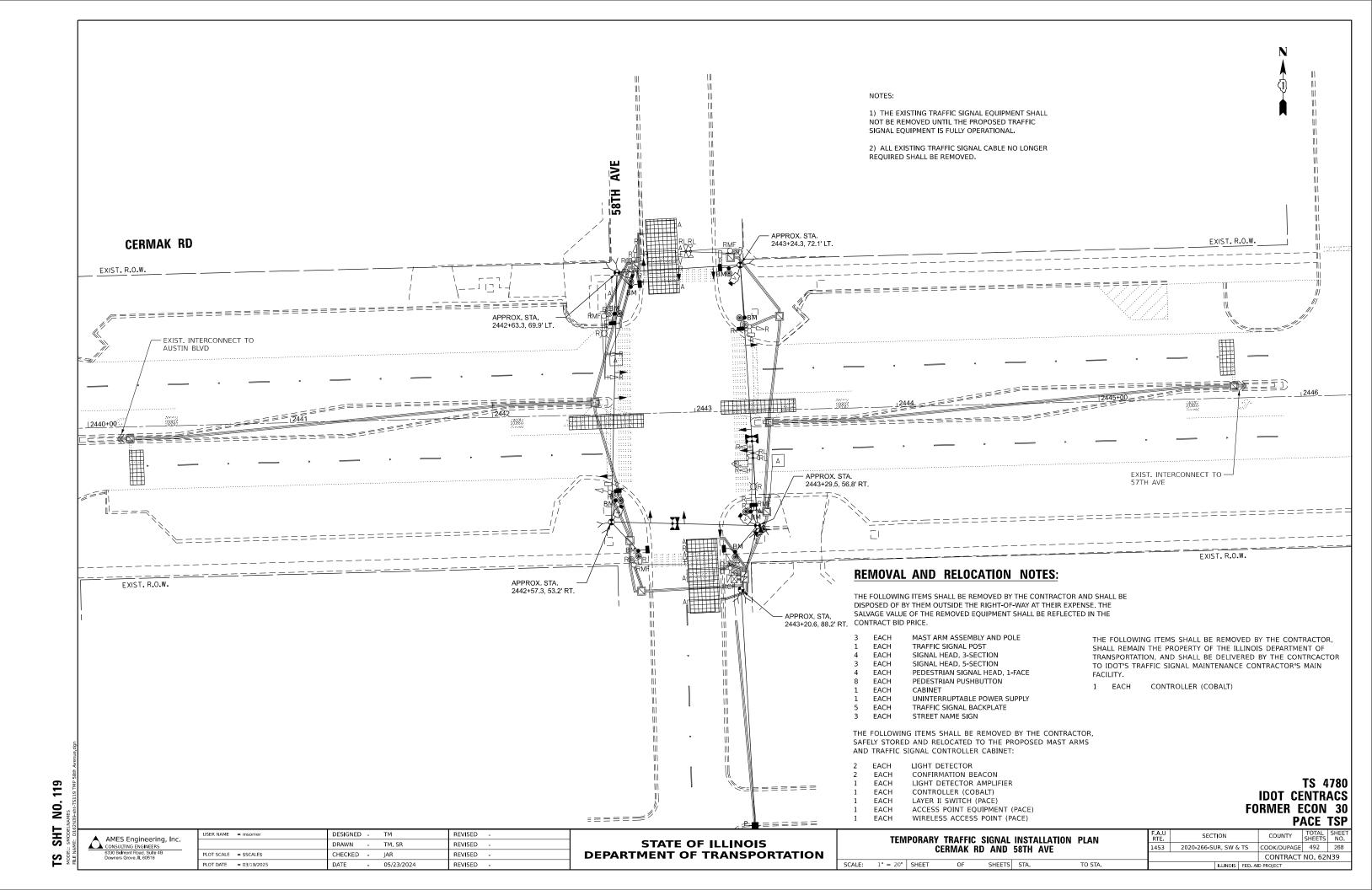
ITEM DESCRIPTION	UNITS	TOTAL QTY.
SIGN PANEL - TYPE 1	SQ FT	17
SIGN PANEL - TYPE 2	SQ FT	25
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	183
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	52
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	331
HANDHOLE	EACH	2
HEAVY-DUTY HANDHOLE	EACH	2
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1204
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1614
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1841
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1485
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1335
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	40
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	1836
TRAFFIC SIGNAL POST, 16 FT.	EACH	2
STEEL MAST ARM ASSEMBLY AND POLE, 40 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 46 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 52 FT.	EACH	2
CONCRETE FOUNDATION, TYPE A	FOOT	12
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	56
DRILL EXISTING HANDHOLE	EACH	15
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	6
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MODINTED SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	4
	EACH	8
PEDESTRIAN SIGNAL HEAD, L.E.D., 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	10
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	10
INDUCTIVE LOOP DETECTOR		
DETECTOR LOOP, TYPE I	FOOT	640
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	2
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	3016
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	4
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	555
SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
PEDESTRIAN SIGNAL POST, 10 FT.	EACH	6
PEDESTRIAN SIGNAL POST, 5 FT.	EACH	1
FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	1
REMOVE AND REPLACE BATTERIES FOR UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8
CONCRETE FOUNDATION, TYPE A, 12-INCH DIAMETER	FOOT	28
LED SIGNAL FACE, LENS COVER	EACH	18
CENTRACS LICENSE EXPANSION	EACH	1
FIBER OPTIC INTERCONNECT CENTER, 48 PORT	EACH	1

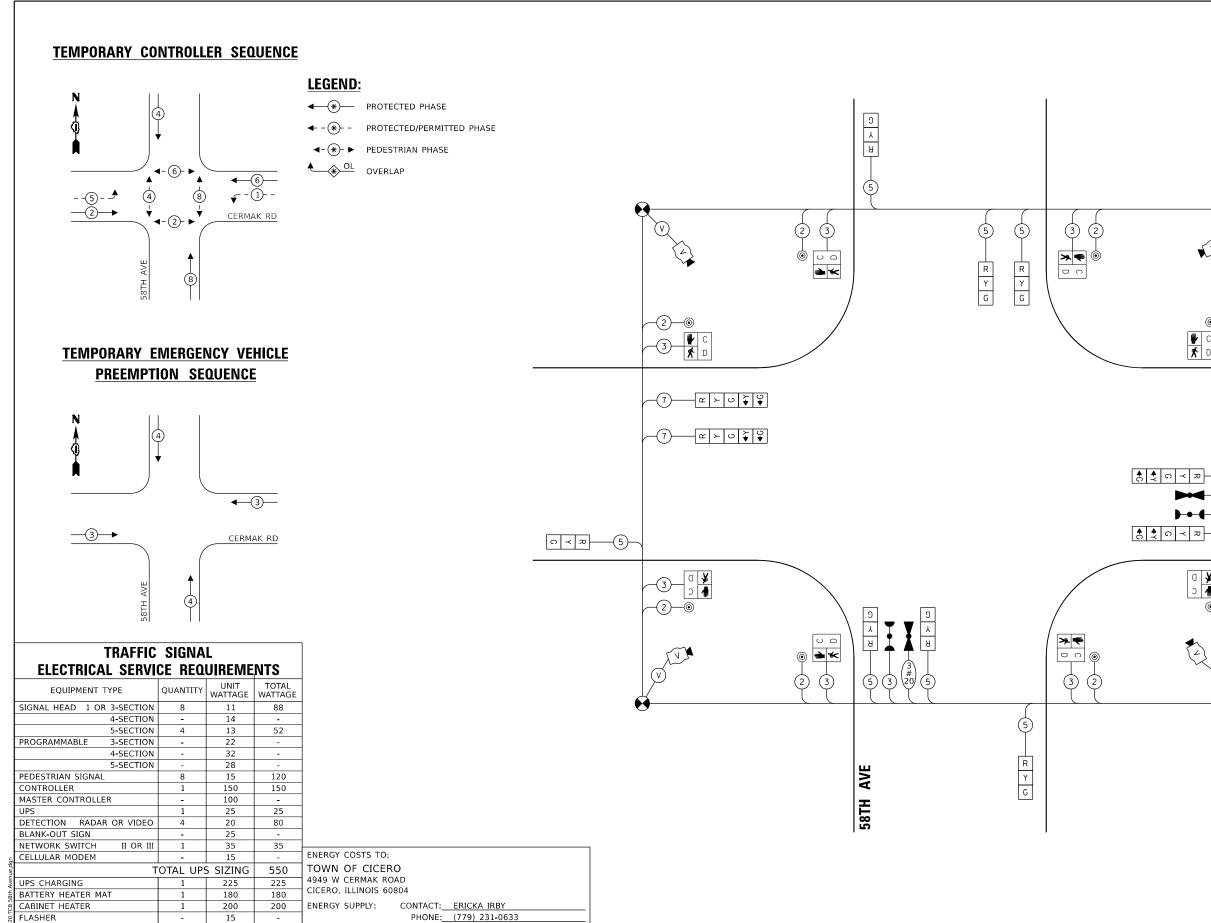
* - 100% COST TO TOWN OF CICERO

SCALE: NTS

TS 4785 IDOT CENTRACS FORMER ECON 30

NO. 118





COMPANY: COMED

REVISED -

REVISED -

REVISED -

REVISED -

ACCOUNT NUMBER: 66230-10157

METER NUMBER:__---

DESIGNED - TM

DRAWN - TM, SR

DATE - 05/23/2024

CHECKED - JAR

TS 4780 IDOT CENTRACS FORMER ECON 30 PACE TSP

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY CABLE PLAN, TEMPORARY PHASE DESIGNATION DIAGRAM
AND TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE
CERMAK RD AND 58TH AVE

CERMAK RD

LED STREET NAME SIGN

AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Belmont Road, Suite 4B
Downers Grove, IL 60516

LUMINAIRE

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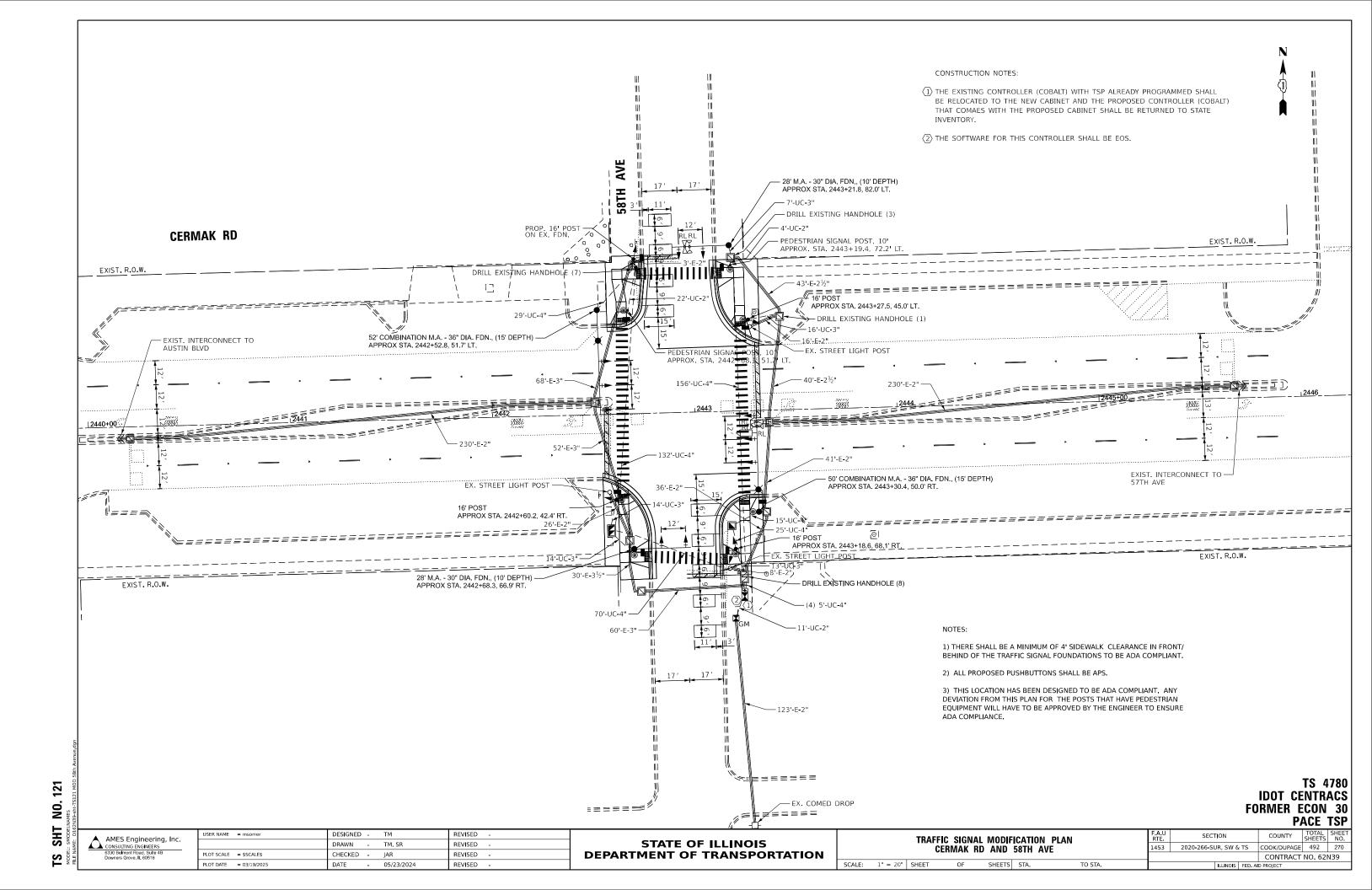
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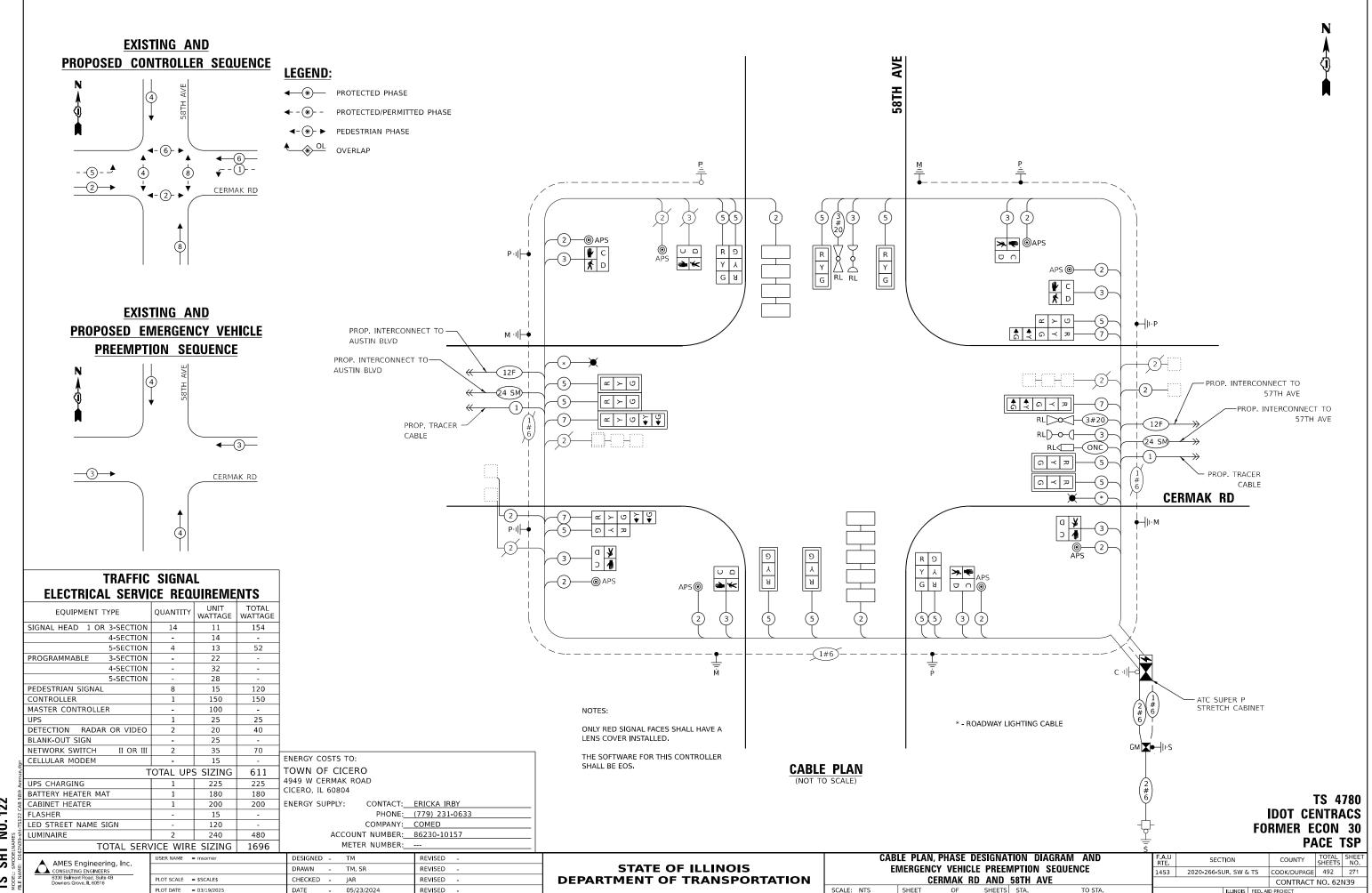
1155

TOTAL SERVICE WIRE SIZING

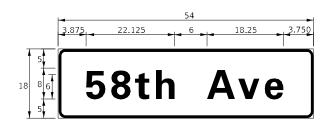
PLOT SCALE = \$SCALE\$

PLOT DATE = 03/19/2025

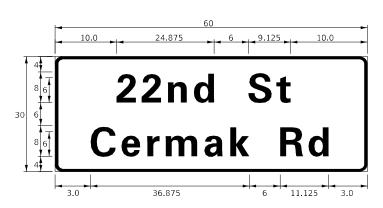




ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE



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



DESIGN	AREA	SIGN PANEL	SHEETING	QTY.
SERIES	(SQ FT)	TYPE	TYPE	REQUIRED
D	12.5	2	ZZ	2

NOTE: FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION PLEASE SEE DISTRICT ONE MAST ARM MOUNTED STREET NAME SIGNS DETAIL.

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOT. QT
SIGN PANEL - TYPE 1	SQ FT	14
SIGN PANEL - TYPE 2	SQ FT	25
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	37
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	64
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	447
HANDHOLE	EACH	1
DOUBLE HANDHOLE	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	112
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	156
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	262
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	88
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	105
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	40
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	140
TRAFFIC SIGNAL POST, 16 FT.	EACH	4
STEEL MAST ARM ASSEMBLY AND POLE, 28 FT.	EACH	2
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 50 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 52 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	16
CONCRETE FOUNDATION, TIPE A	FOOT	4
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	20
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	30
<u> </u>	EACH	19
DRILL EXISTING HANDHOLE SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	8
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	6
		2
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH EACH	2
PEDESTRIAN SIGNAL HEAD, L.E.D., 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	10
INDUCTIVE LOOP DETECTOR	EACH	6
DETECTOR LOOP, TYPE I	FOOT	34
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	2
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	327
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	3
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	368
OUTDOOR RATED NETWORK CABLE	FOOT	150
SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
UPGRADE EXISTING CONTROLLER TO NTCIP SPECIAL	EACH	1
PEDESTRIAN SIGNAL POST, 10 FT.	EACH	2
FULL-ACTUATED CONTROLLER AND TYPE SUPER P STRETCHED CABINET, SPECIAL	EACH	1
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8
CONCRETE FOUNDATION, TYPE A, 12-INCH DIAMETER	FOOT	8
LED SIGNAL FACE, LENS COVER	EACH	18
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1
CENTRACS LICENSE EXPANSION	EACH	1
FIBER OPTIC INTERCONNECT CENTER. 48 PORT	EACH	1

* - 100% COST TO TOWN OF CICERO

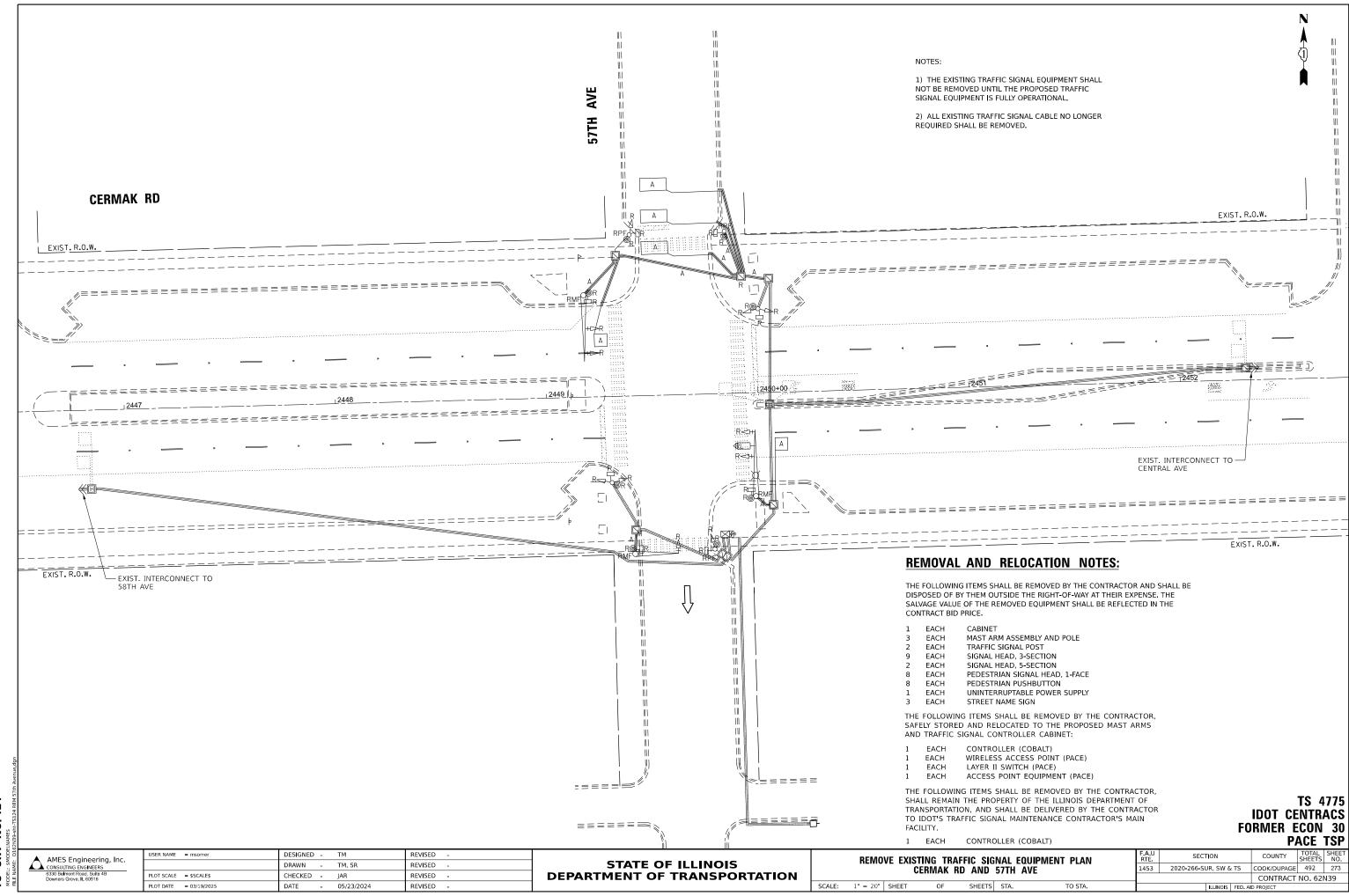
SCALE: NTS

TS 4780
IDOT CENTRACS
FORMER ECON 30
PACE TSP

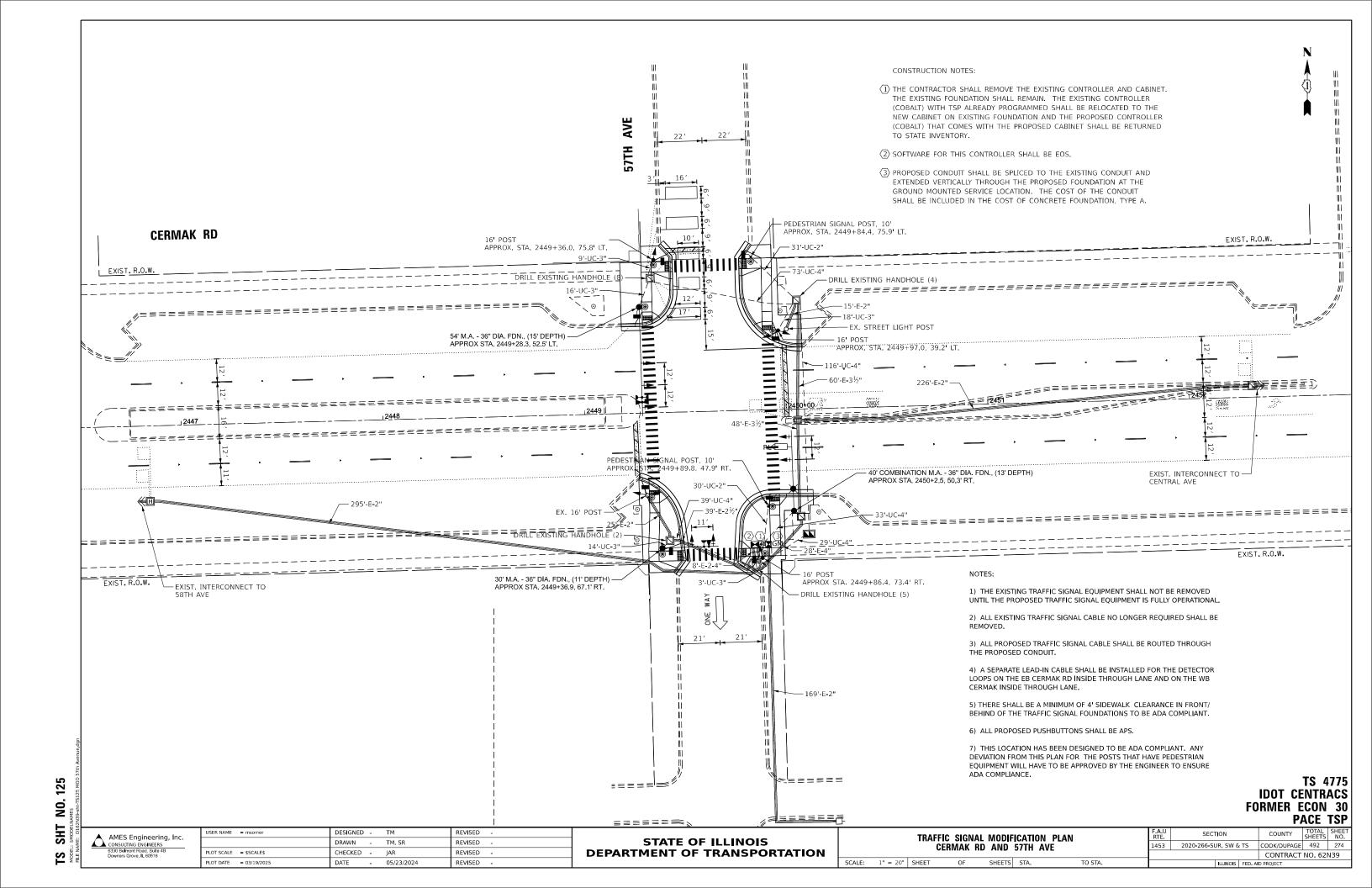
AMES Engineering, Inc. CONSULTING ENGINEERS

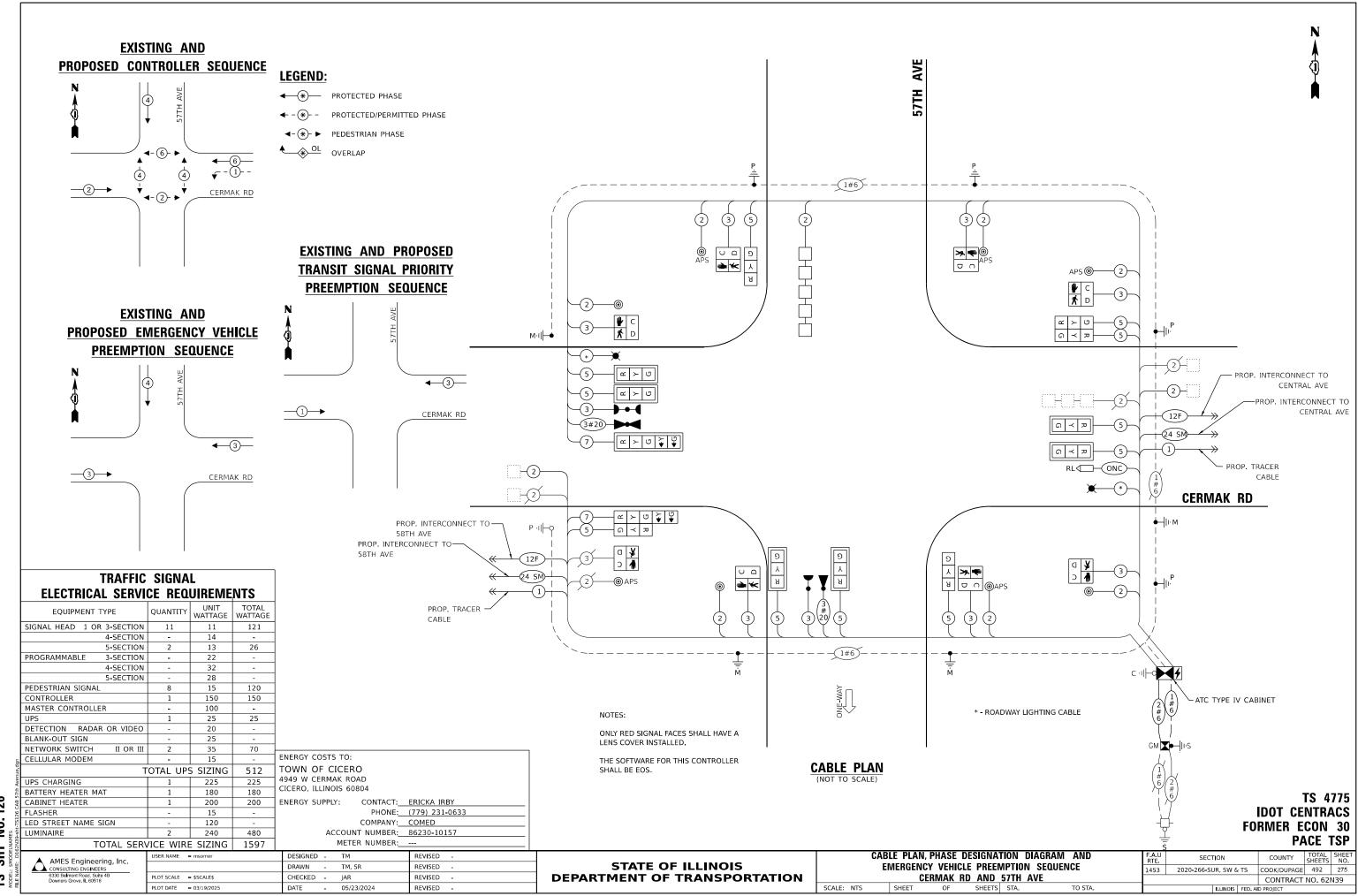
6330 Befront Road, Suite 4B
Downers Grove, IL 60516

USER NAME = msomer	DESIGNED -	TM	REVISED -
	DRAWN -	TM, SR	REVISED -
PLOT SCALE = \$SCALE\$	CHECKED -	JAR	REVISED -
PLOT DATE = 03/19/2025	DATE -	05/23/2024	REVISED -

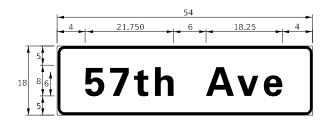


TS SHT NO. 124

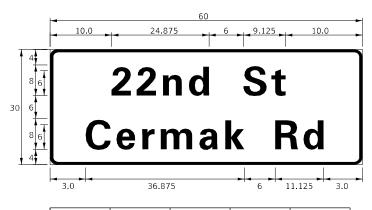




ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE



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



DESIGN AREA SIGN PANEL SHEETING QTY.
SERIES (SQ FT) TYPE TYPE REQUIRED
D 12.5 2 ZZ 1

NOTE: FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION PLEASE SEE DISTRICT ONE MAST ARM MOUNTED STREET NAME SIGNS DETAIL.

SCHEDULE OF QUANTITIES

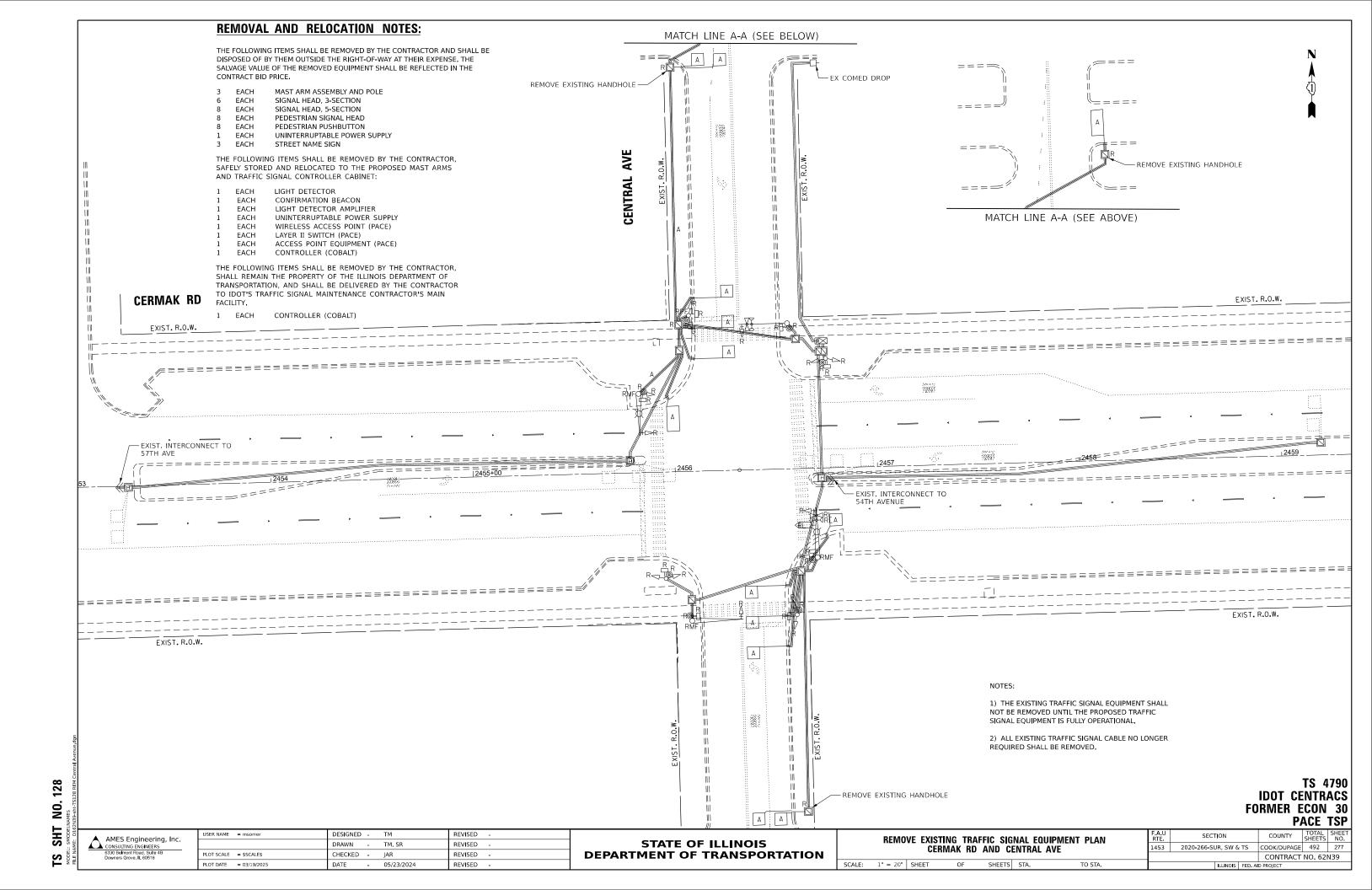
ITEM DESCRIPTION	UNITS	TOTAL QTY.
SIGN PANEL - TYPE 1	SQ FT	14
SIGN PANEL - TYPE 2	SQ FT	13
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	53
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	60
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	252
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1151
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1658
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1928
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	431
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	937
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	40
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	986
TRAFFIC SIGNAL POST, 16 FT.	EACH	3
STEEL MAST ARM ASSEMBLY AND POLE, 30 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 54 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 40 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	16
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	39
DRILL EXISTING HANDHOLE	EACH	14
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	6
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	5
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	1
PEDESTRIAN SIGNAL HEAD, L.E.D., 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	7
INDUCTIVE LOOP DETECTOR	EACH	5
DETECTOR LOOP, TYPE I	FOOT	208
LIGHT DETECTOR	EACH	2
LIGHT DETECTOR AMPLIFIER	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	2471
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	5
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	454
OUTDOOR RATED NETWORK CABLE	FOOT	106
SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
UPGRADE EXISTING CONTROLLER TO NTCIP SPECIAL	EACH	1
PEDESTRIAN SIGNAL POST, 10 FT,	EACH	2
ADVANCED TRANSPORTATION CONTROLLER AND TYPE IV CABINET. SPECIAL	EACH	1
UNINTERRUPTABLE POWER SUPPLY AND CABINET, SPECIAL	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8
CONCRETE FOUNDATION, TYPE A, 12-INCH DIAMETER	FOOT	8
LED SIGNAL FACE, LENS COVER	EACH	13
REBUILD EXISTING HANDHOLE TO DOUBLE HANDHOLE	EACH	13
	EACH	1
CENTRACS LICENSE EXPANSION	EACH	
FIBER OPTIC INTERCONNECT CENTER, 48 PORT	EACH	1

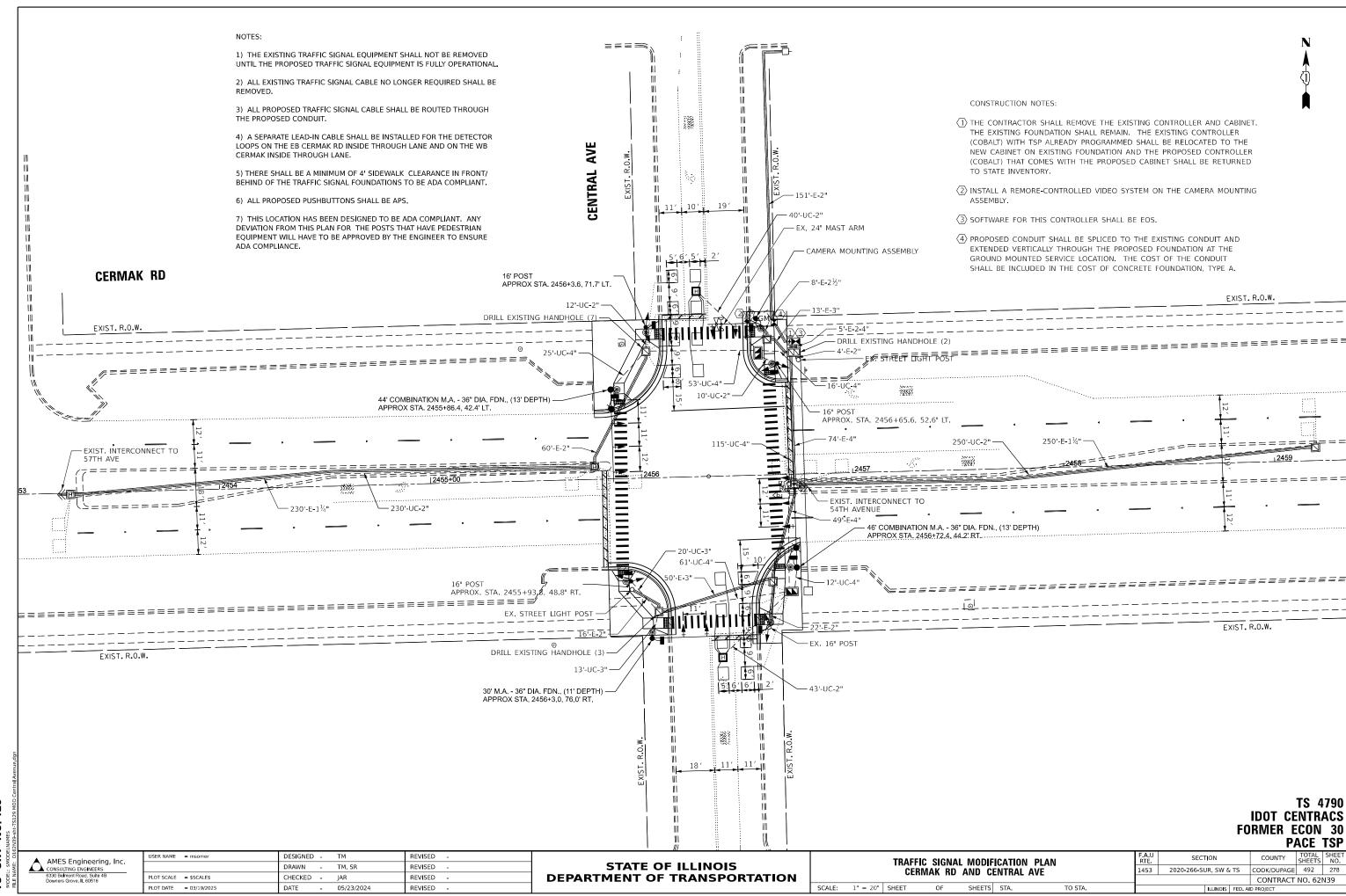
* - 100% COST TO TOWN OF CICERO

SCALE: NTS

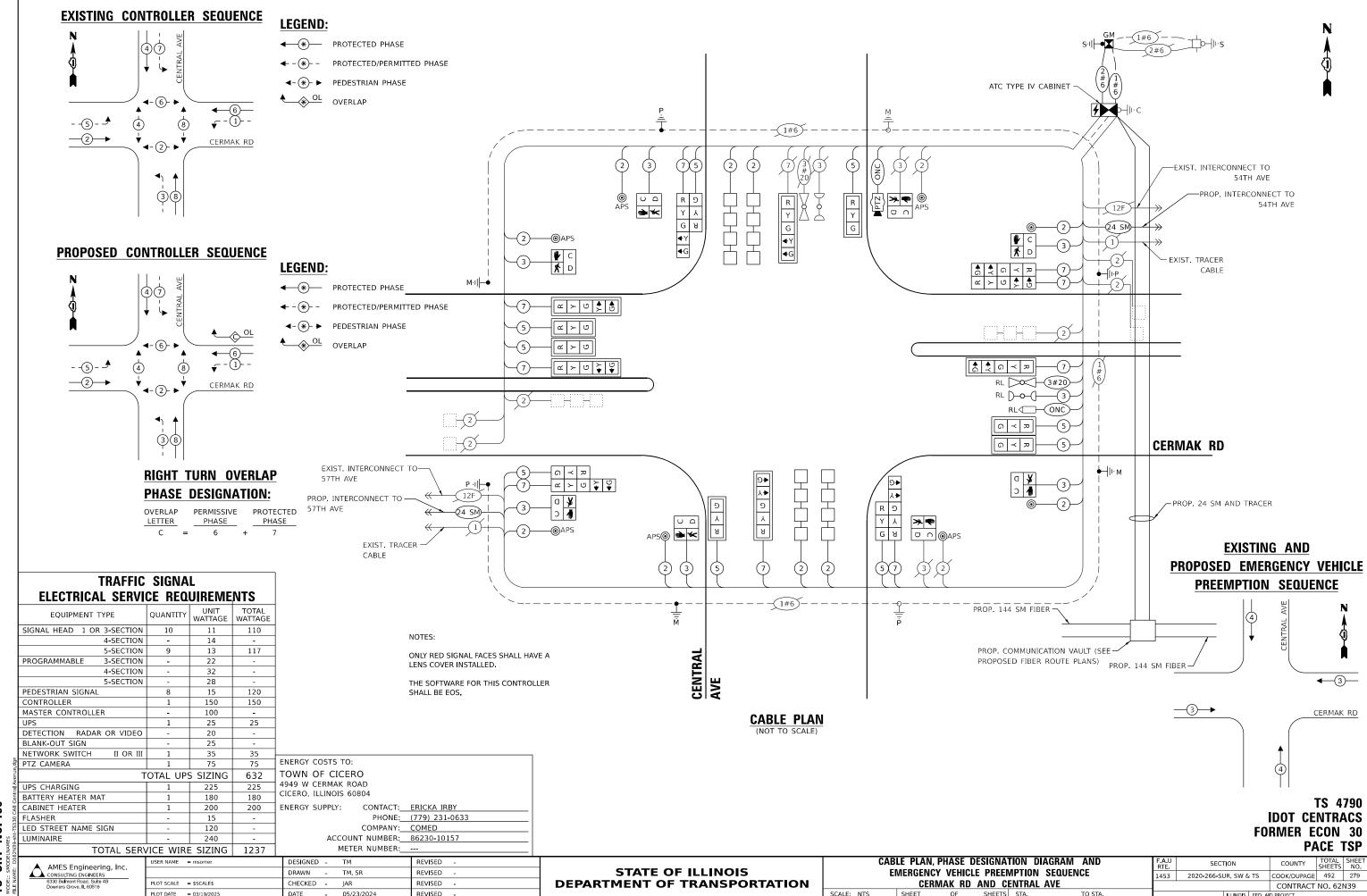
TS 4775 IDOT CENTRACS FORMER ECON 30

USER NAME = msomer	DESIGNED -	TM	REVISED -
	DRAWN -	TM, SR	REVISED -
PLOT SCALE = \$SCALE\$	CHECKED -	JAR	REVISED -
PLOT DATE = 03/19/2025	DATE -	05/23/2024	REVISED -

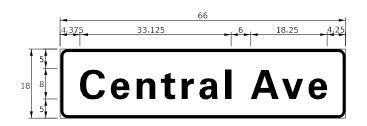




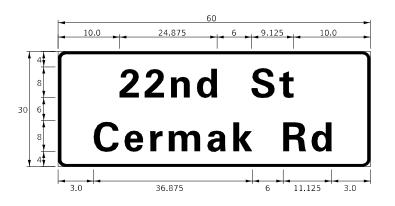
S SHT NO. 12



ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE



DESIGN	AREA	SIGN PANEL	SHEETING	QTY.
SERIES	(SQ FT)	TYPE	TYPE	REQUIRED
D	8.25	1	ZZ	2



SIGN PANEL SHEETING
TYPE TYPE DESIGN SERIES QTY. REQUIRED (SQ FT) D 12.5 ZZ

NOTE: FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION PLEASE SEE DISTRICT ONE MAST ARM

AREA

MOUNTED STREET NAME SIGNS DETAIL.

SCHEDULE OF QUANTITIES

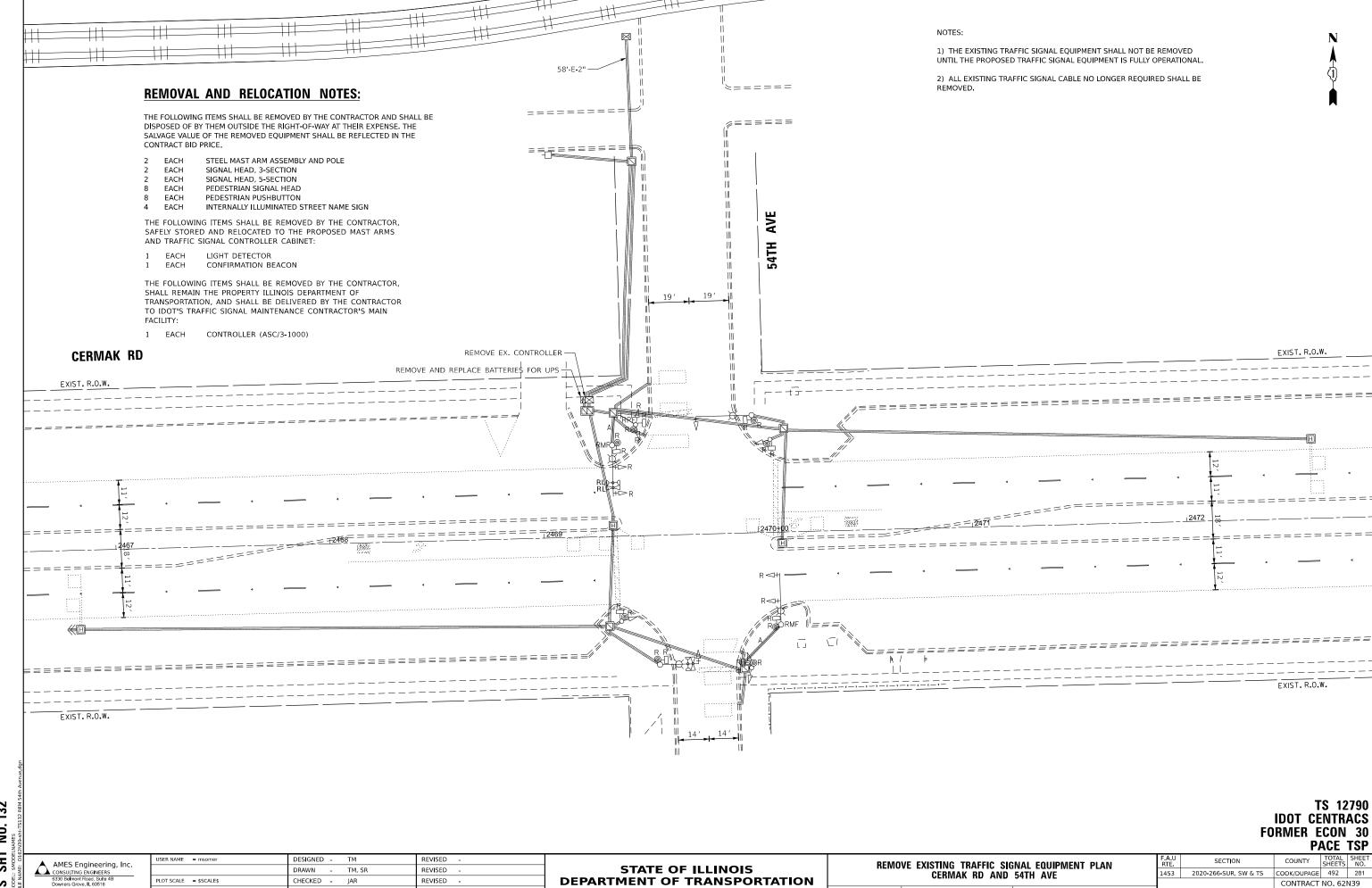
ITEM DESCRIPTION	UNITS	TOTAL QTY.
SIGN PANEL - TYPE 1	SQ FT	17
SIGN PANEL - TYPE 2	SQ FT	25
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	105
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	33
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	282
HEAVY-DUTY HANDHOLE	EACH	2
DOUBLE HANDHOLE	EACH	2
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	945
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1210
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1639
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1642
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	539
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	40
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	748
TRAFFIC SIGNAL POST, 16 FT.	EACH	3
STEEL MAST ARM ASSEMBLY AND POLE, 30 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 44 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 46 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	16
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	37
DRILL EXISTING HANDHOLE	EACH	12
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	6
SIGNAL HEAD, LED, 1-FACE, 3-SECTION BRACKET MOUNTED	EACH	3
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	5
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	5
PEDESTRIAN SIGNAL HEAD, L.E.D., 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	11
INDUCTIVE LOOP DETECTOR	EACH	8
DETECTOR LOOP, TYPE I	FOOT	527
RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	1
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	2740
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	4
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	211
OUTDOOR RATED NETWORK CABLE	FOOT	212
SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
REMOTE CONTROLLED VIDEO SYSTEM	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
UPGRADE EXISTING CONTROLLER TO NTCIP SPECIAL	EACH	1
ADVANCED TRANSPORTATION CONTROLLER AND TYPE IV CABINET. SPECIAL	EACH	1
UNINTERRUPTABLE POWER SUPPLY AND CABINET, SPECIAL	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8
LED SIGNAL FACE, LENS COVER	EACH	19
CAMERA MOUNTING ASSEMBLY	EACH	19
CENTRACS LICENSE EXPANSION	EACH	1
FIBER OPTIC INTERCONNECT CENTER, 48 PORT	EACH	1
IDEA OF HOLIVEROOMINEOT OCCUPANT ON THE STATE OF THE STAT	LAUIT	<u> </u>

^{* - 100%} COST TO TOWN OF CICERO

TS 4790 IDOT CENTRACS FORMER ECON 30

	DOEK NAME	= msomer
-		
	PLOT SCALE	= \$SCALE\$
	PLOT DATE	= 03/19/2025

USER NAME = msomer	DESIGNED - TM	REVISED -
	DRAWN - TM, SR	REVISED -
PLOT SCALE = \$SCALE\$	CHECKED - JAR	REVISED -
PLOT DATE = 03/19/2025	DATE - 05/23/2024	REVISED -
•		



SCALE: 1" = 20' SHEET

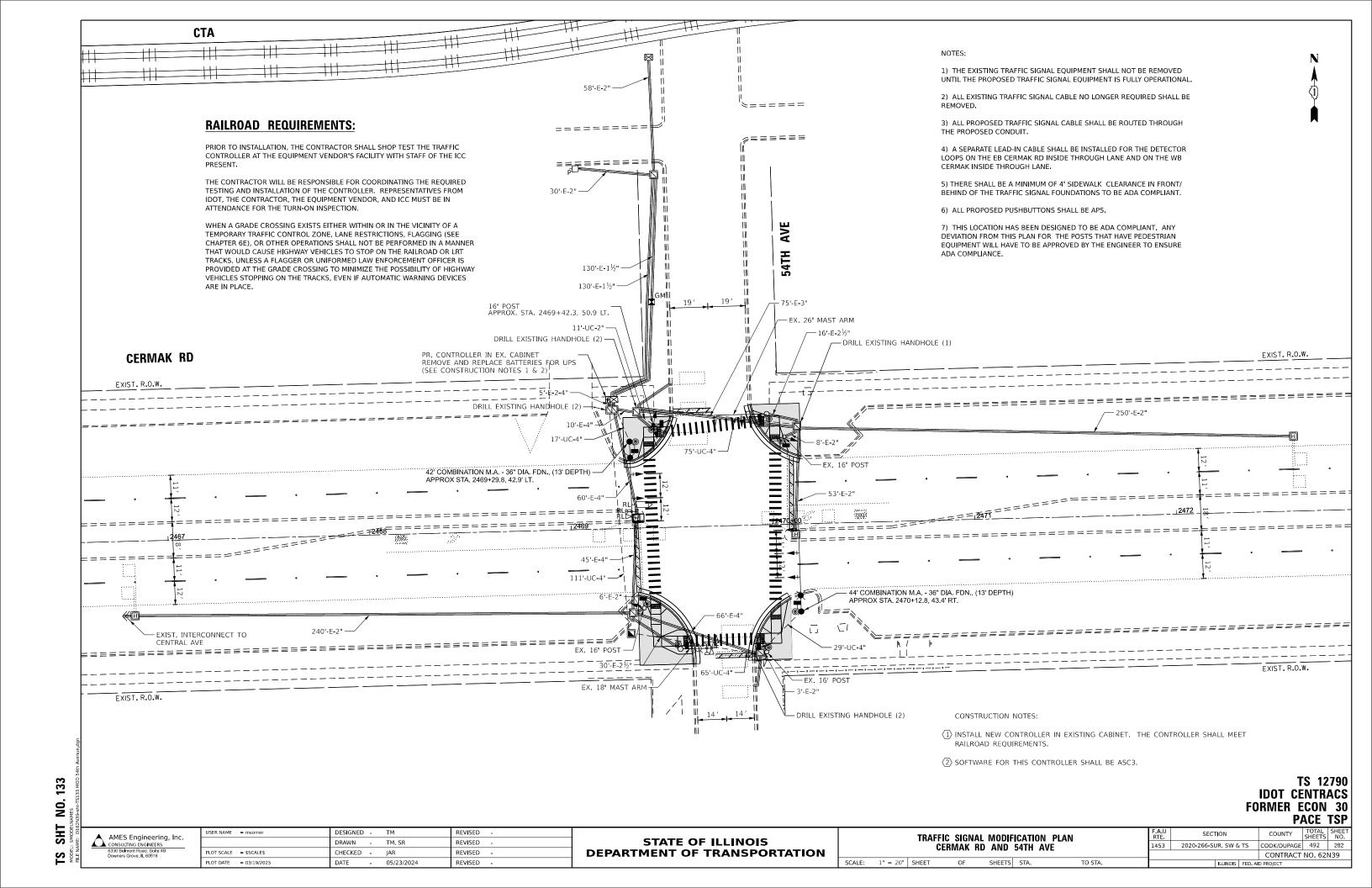
SHEETS STA.

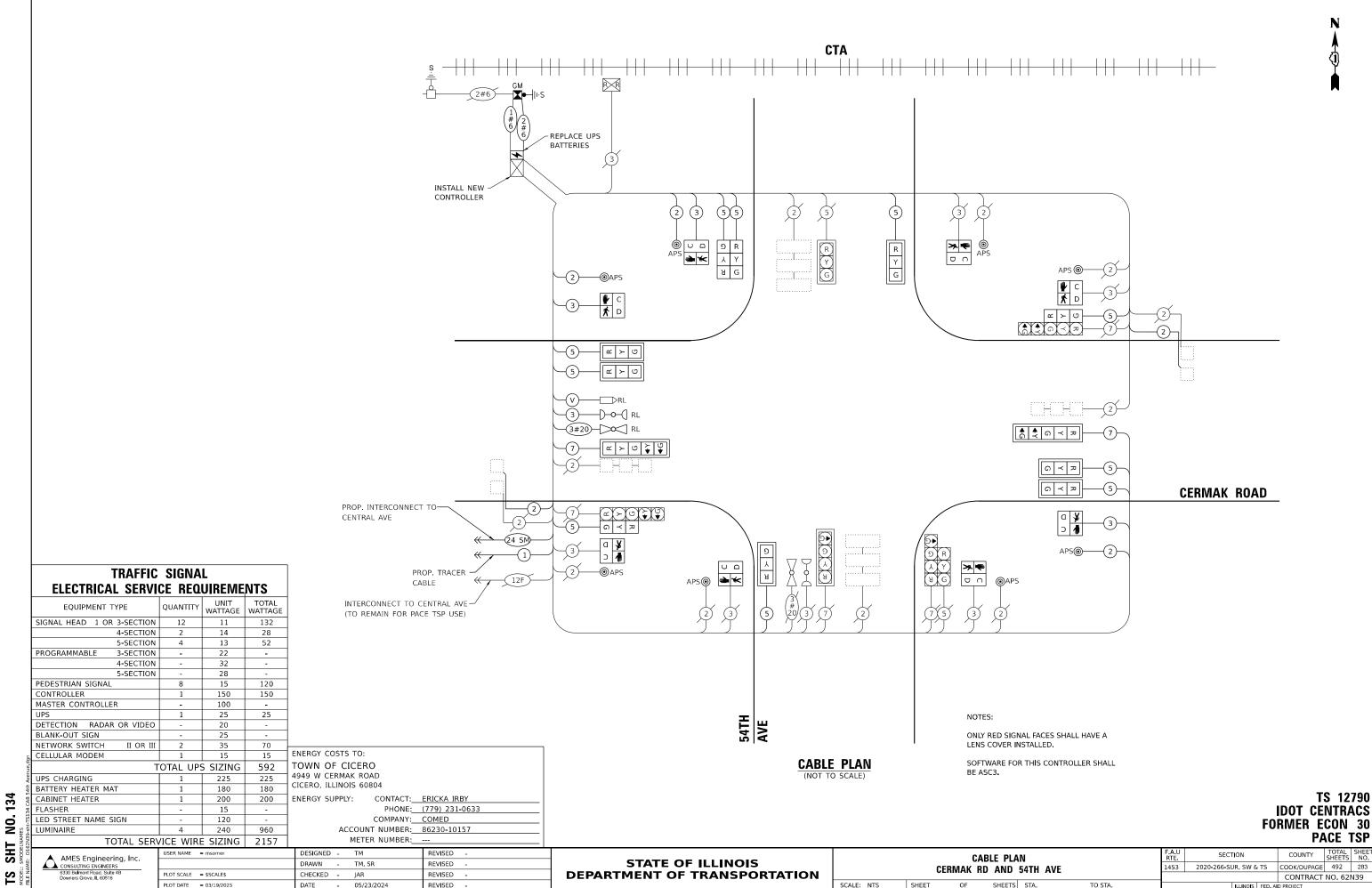
NO. 132 SHT

PLOT DATE = 03/19/2025

- 05/23/2024

REVISED -





SEQUENCE OF OPERATION

MOVEMENT		5 → √ 1			← − → ← 6 ← 1 5 → 1 2 → →			← − − ← 6 2 − − ←				↑ 4 ↑							
PHASE		1 -	+ 5			1 + 6			2 + 5			2 -	+ 6			4 -	⊦ 8		F L
INTERVAL	1	2	3	4	5	6	7	8	9	10	11	12	13A	13B	14	15	16A	16B	A S
CHANGE TO PHASE		1+6	2+5	2+6	Φ/	Φ/	2+6	θ/	0	2+6			4-	+8			1- 2-	+5 +6 +5 +6	Н
CERMAK ROAD EB END MAST ARM AND FAR LEFT SIGNALS	R ← G	R ← Y	R ← G	R ← Y	R	R	R	G ← G	G ← G	G ∢ -Y	G	G	Υ	R	R	R	R	R	R
CERMAK ROAD EB MID MAST ARM AND FAR RIGHT SIGNALS	R	R	R	R	R	R	R	G	G	G	G	G	Υ	R	R	R	R	R	R
CERMAK ROAD WB END MAST ARM AND FAR LEFT SIGNALS		R ← G	R ← Y	R ← Y	G ∢ -G	G ∢ -G	G ← Y	R	R	R	G	G	Υ	R	R	R	R	R	R
CERMAK ROAD WB MID MAST ARM AND FAR RIGHT SIGNALS	R	R	R	R	G	G	G	R	R	R	G	G	Υ	R	R	R	R	R	R
54TH AVENUE NB ALL SIGNALS	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	G	Y	R	R
54TH AVENUE SB END MAST ARM AND FAR LEFT SIGNALS	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	G	Y	R	R
54TH AVENUE SB NEAR RIGHT SIGNAL	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	G	Y	R	R
PEDESTRIAN SIGNALS CROSSING 54TH AVENUE ON NORTH SIDE OF CERMAK ROAD	Н	н	Н	н	*Р	**FH	Н	Н	Н	Н	*P	**FH	Н	Н	Н	Н	Н	Н	
PEDESTRIAN SIGNALS CROSSING 54TH AVENUE ON SOUTH SIDE OF CERMAK ROAD	Н	Н	Н	Н	Н	Н	Н	*Р	**FH	Н	*P	**FH	Н	Н	Н	Н	Н	Н	D A
PEDESTRIAN SIGNALS CROSSING CERMAK ROAD ON EAST SIDE OF 54TH AVENUE	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	н	Н	Н	Н	*Р	**FH	Н	Н	R K
PEDESTRIAN SIGNALS CROSSING CERMAK ROAD ON WEST SIDE OF 54TH AVENUE	Н	Н	Н	Н	н	Н	н	Н	Н	Н	Н	н	Н	Н	*Р	**FH	Н	Н	

- * TO APPEAR ONLY UPON PUSHBUTTON ACTUATION
- ** FLASHING " IS TO TERMINATE AT THE COMPLETION
 OF THE PEDESTRIAN INTERVAL CLEARANCE
- THIS " OR FLASHING " INTERVAL MAY FINISH TIMING
 IN THE BIDIRECTIONAL STRAIGHT THROUGH MOVEMENT IF
 THE LEFT ARROW TIME IS NOT SUFFICIENT TO COMPLETE " INTERVALS

P = ILLUMINATED PERSON = WALK
FH = ILLUMINATED FLASHING HAND = FLASHING DON'T WALK
H = ILLUMINATED SOLID HAND = DON'T WALK

PHASE 2 AND 6 SHALL BE PLACED ON RECALL.

PREEMPTOR PREEMPTOR

EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION

									=														NUMBER 3	NUMBER 4	
CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER	1		5		5		:	8		8		11		11			14		14						1
CHANGE FROM BUS PRIORITY SEQUENCE OF OPERATION INTERVAL NUMBER																				2		2			CLEAR TO
EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	1A	1B	1C	1D	1E	1F	1G	1Н	1J	1K	1L	1M	1N	1P	1Q	1R	15	1T	1U	1V	1W	1X	2	3	NORMAL SEQUENC
CHANGE TO EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	2 OR 3	1C	2	1E	1F	3	1H	2	1K	1L	3	2	1P	1Q	3	15	1T	2	3	2	1X	3			\Diamond
CERMAK ROAD EB END MAST ARM AND FAR LEFT SIGNALS	R ← Y	R	R	R	R	R	G ∢ -G	G ∢ −Y	G ∢ -G	Y	R	G	G	Y	R	R	R	R	R	G	Y	R	G	R	\Diamond
CERMAK ROAD EB MID MAST ARM AND FAR RIGHT SIGNALS	R	R	R	R	R	R	G	G	G	Y	R	G	G	Y	R	R	R	R	R	G	Y	R	G	R	\Diamond
CERMAK ROAD WB END MAST ARM AND FAR LEFT SIGNALS		G ← G	G ← Y	G ← G	Y	R	R	R	R	R	R	G	G	Y	R	R	R	R	R	G	Y	R	G	R	\Diamond
CERMAK ROAD WB MID MAST ARM AND FAR RIGHT SIGNALS	R	G	G	G	Y	R	R	R	R	R	R	G	G	Y	R	R	R	R	R	G	Y	R	G	R	\Diamond
54TH AVENUE NB ALL SIGNALS	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	Y	R	G	R	R	R	R	G	\Diamond
54TH AVENUE SB END MAST ARM AND FAR LEFT SIGNALS	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	Y	R	G	R	R	R	R	G	\Diamond
54TH AVENUE SB NEAR RIGHT SIGNAL	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	Y	R	G	R	R	R	R	G	\Diamond
PEDESTRIAN SIGNALS CROSSING 54TH AVENUE ON NORTH SIDE OF CERMAK ROAD	Н	FH	Н	FH	Н	Н	н	н	Н	Н	Н	FH	FH	н	Н	Н	Н	Н	Н	FH	FH	Н	Н	Н	\Diamond
PEDESTRIAN SIGNALS CROSSING 54TH AVENUE ON SOUTH SIDE OF CERMAK ROAD	Н	Н	Н	Н	Н	Н	FH	н	FH	Н	Н	FH	FH	н	Н	Н	Н	Н	Н	FH	FH	Н	Н	Н	\Diamond
PEDESTRIAN SIGNALS CROSSING CERMAK ROAD ON EAST SIDE OF 54TH AVENUE	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	FH	Н	Н	FH	Н	Н	Н	Н	Н	\Diamond
PEDESTRIAN SIGNALS CROSSING CERMAK ROAD ON WEST SIDE OF 54TH AVENUE	Н	Н	Н	Н	Н	Н	н	н	Н	Н	Н	н	Н	н	Н	FH	Н	Н	FH	н	н	Н	Н	Н	\Diamond

EMERGENCY VEHICLE SEQUENCE SHALL PROVIDE THE PROPER CLEARANCE INTERVAL TO RESUME THE NORMAL SEQUENCE OF OPERATION OR PROPER CLEARANCE INTERVAL TO DISPLAY A DIFFERENT EMERGENCY INTERVAL AFTER EMERGENCY VEHICLE INTERVAL 2 OR 3 IS TERMINATED.

TS 12790 IDOT CENTRACS FORMER ECON 30 PACE TSP

AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Belmont Road, Suite 4B
Downers Grove, IL 60516

USER NAME = msomer	DESIGNED	-	TM	REVISED	-
	DRAWN	-	TM, SR	REVISED	-
PLOT SCALE = \$SCALE\$	CHECKED	-	JAR	REVISED	-
PLOT DATE = 03/19/2025	DATE	-	05/23/2024	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

										IUL I	יטי
SEQUENCE (HICLE PREEMPTION	F.A.U RTE	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
				ERATION		1453	2020-266-SUR, SW & T	TS	COOK/DUPAGE	492	284
	CI	<u>ermak r</u>	<u>D AND</u>	54TH AVE					CONTRACT	NO. 621	N39
SCALE: NTS	SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS F	FED. AIC	PROJECT		

ARILROAD PREEMPTION SEQUENCE SHALL PROVIDE THE PROPER CLEARANCE INTERVAL TO RESUME THE NORMAL SEQUENCE OF OPERATIONS OR PROPER CLEARANCE INTERVAL TO DISPLAY AN EMERGENCY VEHICLE INTERVAL (IF APPLICABLE) AFTER RAILROAD PREEMPTION INTERVAL 5 IS TERMINATED.

BUS PRIORITY SEQUENCE OF OPERATION

CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER		1		5		8	1	. 1		14		BUS	CLEAR TO
BUS PREEMPTION SEQUENCE INTERVAL		1A	1B	1C	1D	1E	1F	1G	1H	1)	1K	INTERVAL	NORMAL SEQUENCE
CHANGE TO		2	1C	2	1E	2	1G	2	1)	1K	2	2	\Diamond
CERMAK ROAD END MAST ARM AND FAR LEFT SIGNALS	EB .	R → Y	R	R	G ← G	G ← Y	G	G	R	R	R	G	\Diamond
CERMAK ROAD FAR RIGHT SIGNAL	EB	R	R	R	G	G	G	G	R	R	R	G	\Diamond
CERMAK ROAD END MAST ARM AND FAR LEFT SIGNALS	WB .	R → Y	ى ♦	G ◆ Y	R	R	G	G	R	R	R	G	\Diamond
CERMAK ROAD FAR RIGHT SIGNAL	WB	R	G	G	R	R	G	G	R	R	R	G	\Diamond
54TH AVENUE ALL SIGNALS	NB	R	R	R	R	R	R	R	G	Υ	R	R	\Diamond
54TH AVENUE END MAST ARM AND FAR LEFT SIGNALS	SB	R	R	R	R	R	R	R	G	Υ	R	R	\Diamond
54TH AVENUE NEAR RIGHT SIGNAL	SB	R	R	R	R	R	R	R	G	Υ	R	R	\Diamond
PEDESTRIAN SIGNALS CROSSING 54TH AVENU ON NORTH SIDE OF CERMAK ROAD	JE	Ξ	Р	Р	Н	Н	Р	Р	Н	Н	Н	Р	\Diamond
PEDESTRIAN SIGNALS CROSSING 54TH AVENU ON SOUTH SIDE OF CERMAK ROAD	JE	Н	Н	Н	Р	Р	Р	Р	Н	Н	Н	Р	\Diamond
PEDESTRIAN SIGNALS CROSSING CERMAK ROA ON EAST SIDE OF 54TH AVENUE	AD	Н	Н	Н	Н	Н	Н	Н	FH	Н	Н	Н	\Diamond
PEDESTRIAN SIGNALS CROSSING CERMAK ROA ON WEST SIDE OF 54TH AVENUE	AD	Н	Ι	Ξ	Н	Н	Н	Н	FH	Н	Н	Н	\Diamond

BUS SEQUENCE SHALL PROVIDE THE PROPER CLEARANCE INTERVAL TO RESUME THE NORMAL SEQUENCE OF OPERATION.

TS 12790 IDOT CENTRACS FORMER ECON 30 PACE TSP

AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Belmont Road, Suite 4B
Downers Grove, IL 60516

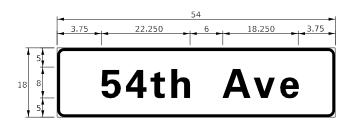
USER NAME = msomer	DESIGNED	-	TM	REVISED -
	DRAWN	-	TM, SR	REVISED -
PLOT SCALE = \$SCALE\$	CHECKED	-	JAR	REVISED -
PLOT DATE = 03/19/2025	DATE	-	05/23/2024	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

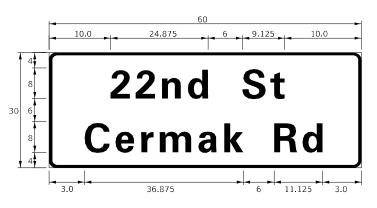
SCALE: NTS

					OF OPERATION	F.A.U RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ľ	4D BO				F OPERATION	1453	2020-266-SUR, SW & TS	COOK/DUPAGE	492	285
_		CERMAK	RD AND	54TH	AVE			CONTRACT	NO. 621	N39
	SHEET	OF	SHEETS	STA	TO STA		ILLINOIS SE	AID DROIFCE		

ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE



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



DESIGN	AREA	SIGN PANEL	SHEETING	QTY.
SERIES	(SQ FT)	TYPE	TYPE	REQUIRED
D	12.5	2	ZZ	2

NOTE: FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION PLEASE SEE DISTRICT ONE MAST ARM MOUNTED STREET NAME SIGNS DETAIL.

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
SIGN PANEL - TYPE 1	SQ FT	13.5
SIGN PANEL - TYPE 2	SQ FT	25
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	11
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	297
HANDHOLE	EACH	1
LUMINAIRE, LED, ROADWAY, OUPUT DESIGNATION H	EACH	2
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	346
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	463
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1511
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	391
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	758
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	40
TRAFFIC SIGNAL POST, 16 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 42 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 44 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	8
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	26
DRILL EXISTING HANDHOLE	EACH	7
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	6
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	2
PEDESTRIAN SIGNAL HEAD, L.E.D., 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	8
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	1615
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	2
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	91
SERVICE INSTALLATION, GROUND MOUNT, METERED	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	1
REMOVE AND REPLACE BATTERIES FOR UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8
LED SIGNAL FACE, LENS COVER	EACH	18
CENTRACS LICENSE EXPANSION	EACH	1
FIBER OPTIC INTERCONNECT CENTER, 48 PORT	EACH	1
LED SIGNAL MODULE REPLACEMENT	EACH	6

* - 100% COST TO TOWN OF CICERO

SCALE: NTS

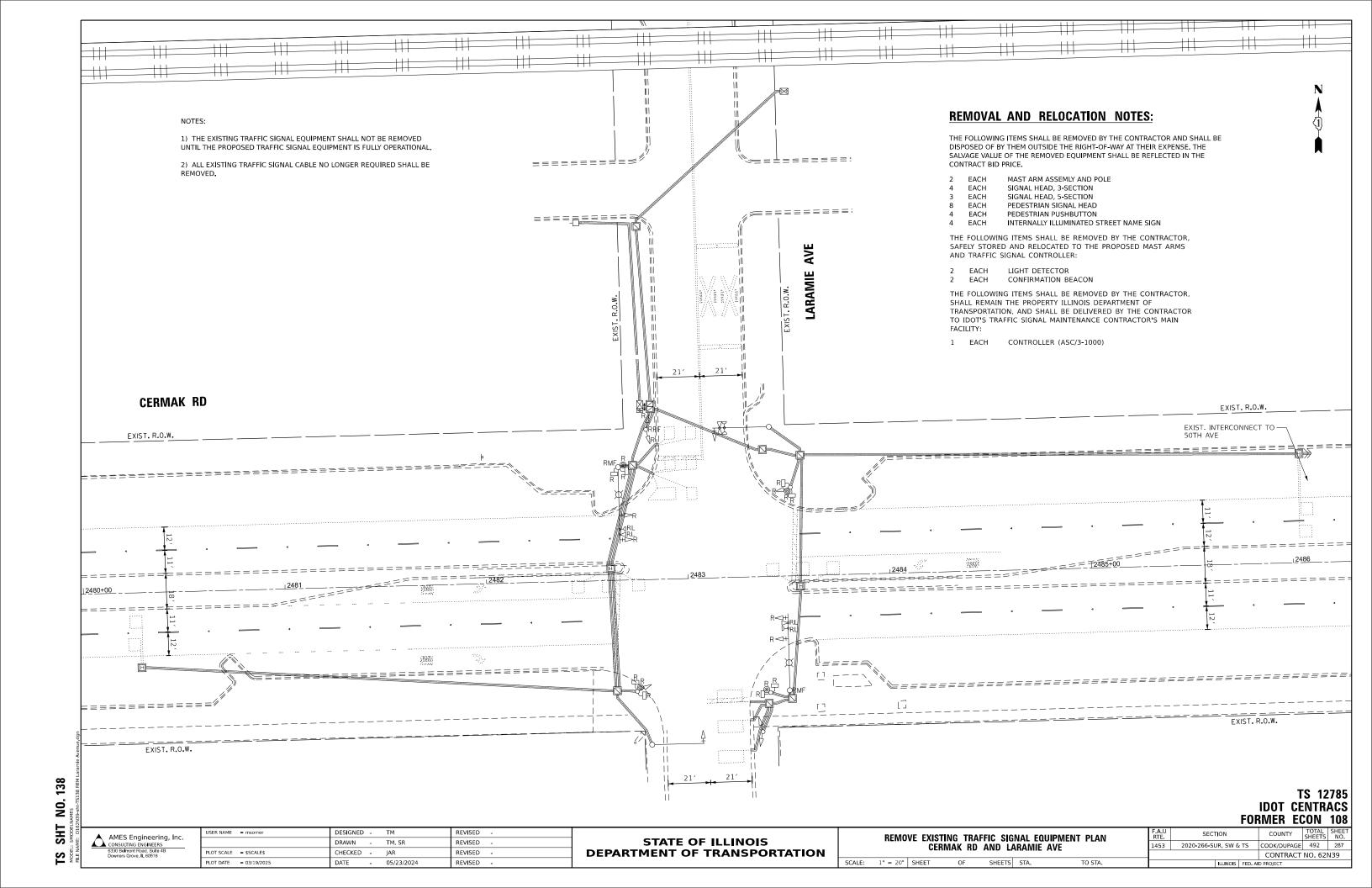
TS 12790 IDOT CENTRACS FORMER ECON 30

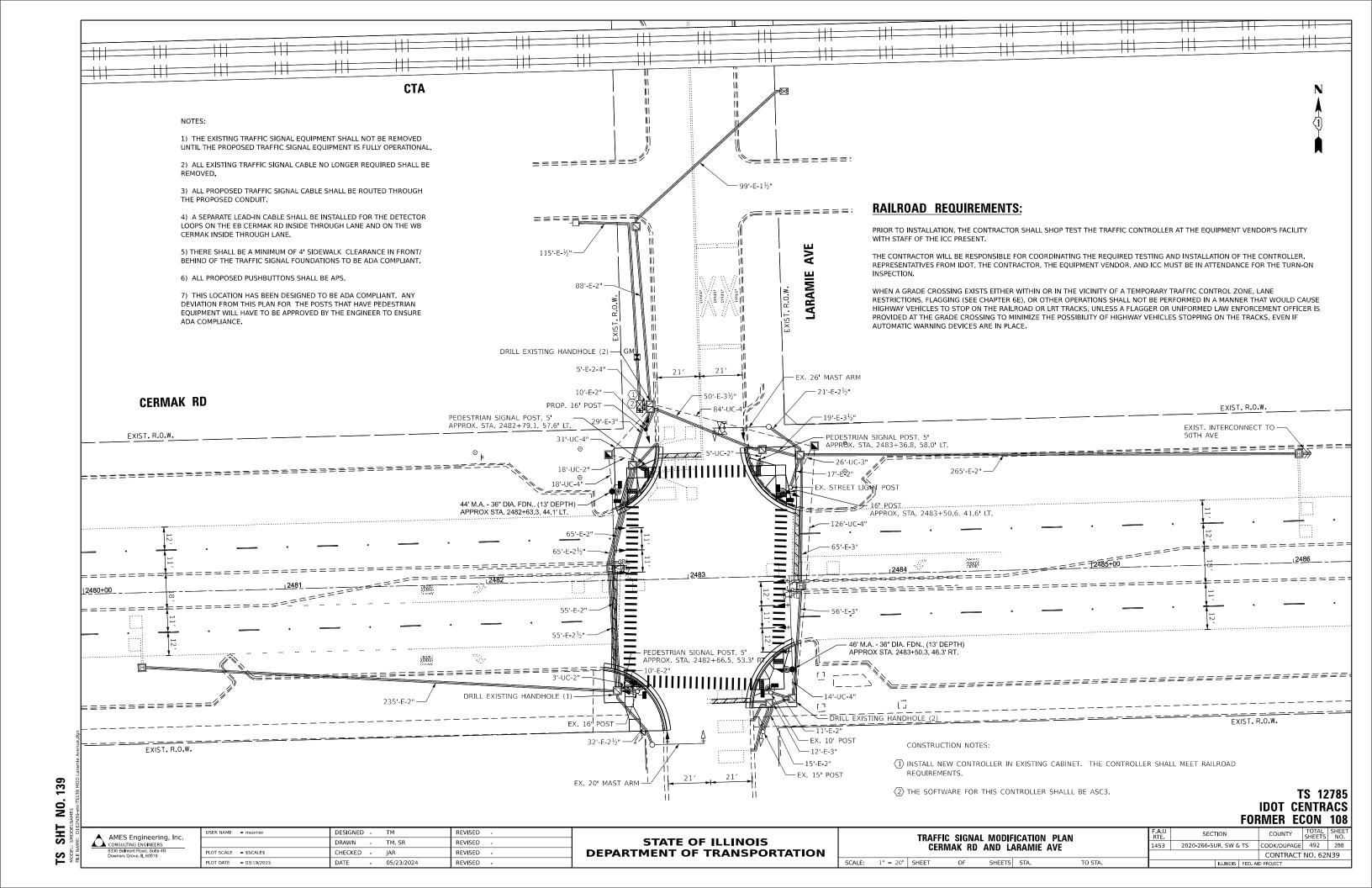
CONTRACT NO. 62N39

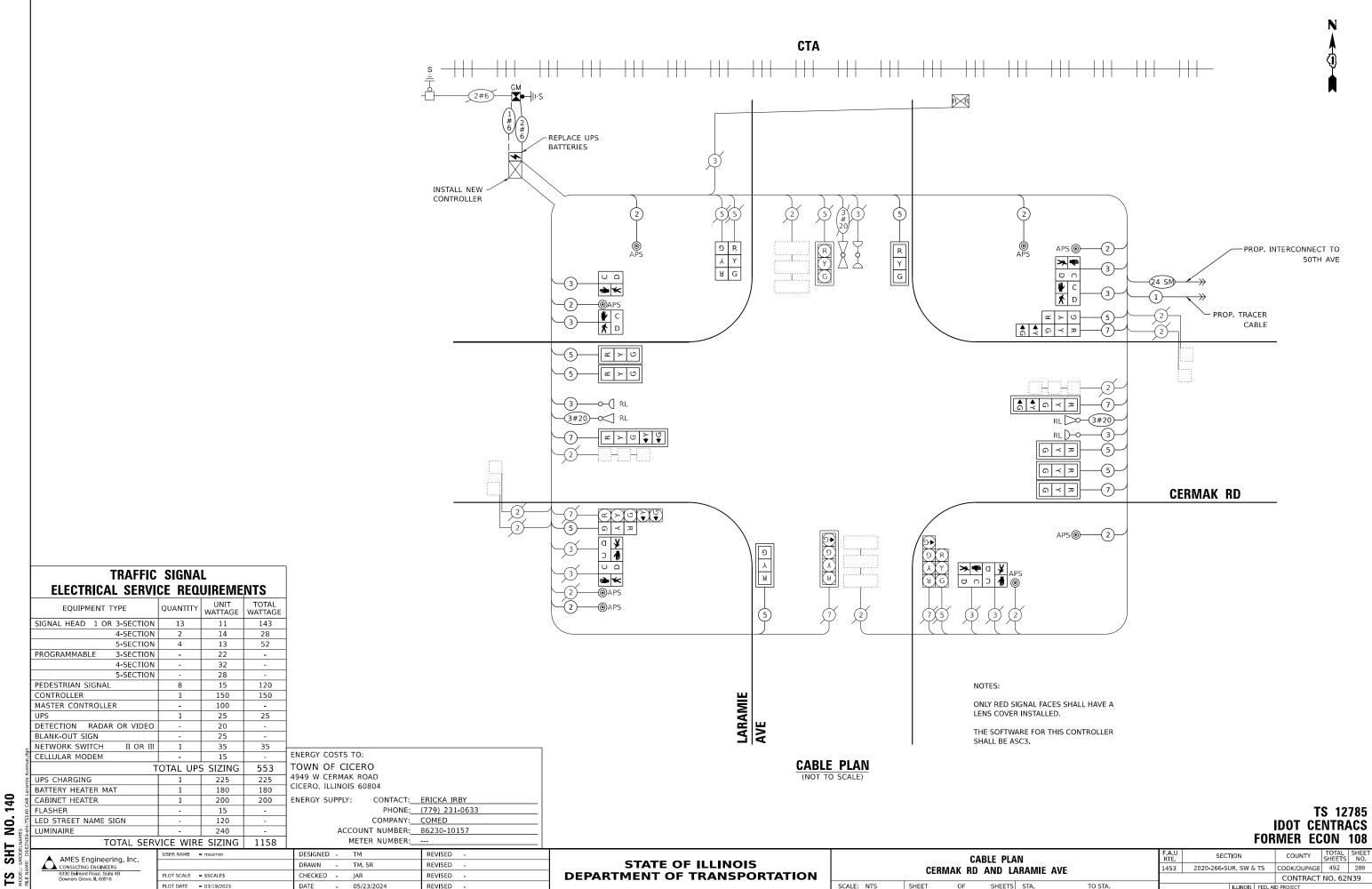
COUNTY

NO. 137 SHT AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Belmont Road, Suite 4B
Downers Grove, IL 60516

USER NAME = msomer	DESIGNED - TM	REVISED -
	DRAWN - TM, SR	REVISED -
PLOT SCALE = \$SCALE\$	CHECKED - JAR	REVISED -
PLOT DATE = 03/19/2025	DATE - 05/23/2024	REVISED -







REVISED -

DATE - 05/23/2024

SEQUENCE OF OPERATION

MOVEMENT	5		•	- 1	4		► 6 —1	5- 2- ▼	*	→		← - ← 2 - ← -	- ► - 6 - ►			▲ 4	↑ ↑ 8 ▼		
PHASE		1 -	+ 5			1 + 6			2 + 5			2 -	+ 6			4 +	⊦ 8		F L
INTERVAL	1	2	3	4	5	6	7	8	9	10	11	12	13A	13B	14	15	16A	16B	A S
CHANGE TO PHASE		1+6	2+5	2+6	Φ/	Φ/	2+6	Φ/	0	2+6			4-	+8			1- 2-	+5 +6 +5 +6	Н
CERMAK ROAD EB END MAST ARM AND FAR LEFT SIGNALS	R ∢ -G	R ← Y	R ∢ -G	R ← Y	R	R	R	G ← G	G ∢ -G	G ∢ -Y	G	G	Υ	R	R	R	R	R	R
CERMAK ROAD EB MID MAST ARM AND FAR RIGHT SIGNALS	R	R	R	R	R	R	R	G	G	G	G	G	Υ	R	R	R	R	R	R
CERMAK ROAD WB END MAST ARM AND FAR LEFT SIGNALS		R ← G	R ← Y	R ← Y	G ← G	G ∢ -G	G ← Y	R	R	R	G	G	Υ	R	R	R	R	R	R
CERMAK ROAD WB MID MAST ARM AND FAR RIGHT SIGNALS	R	R	R	R	G	G	G	R	R	R	G	G	Υ	R	R	R	R	R	R
LARAMIE AVENUE NB ALL SIGNALS	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	G	Υ	R	R
LARAMIE AVENUE SB END MAST ARM AND FAR LEFT SIGNALS	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	G	Υ	R	R
LARAMIE AVENUE SB NEAR RIGHT AND FAR RIGHT MAST ARM SIGNALS	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	G	Υ	R	R
PEDESTRIAN SIGNALS CROSSING LARAMIE AVENUE ON NORTH SIDE OF CERMAK ROAD	н	Н	Н	н	*P	**FH	н	Н	н	н	*Р	**FH	н	н	Н	н	Н	Н	
PEDESTRIAN SIGNALS CROSSING LARAMIE AVENUE ON SOUTH SIDE OF CERMAK ROAD	н	Н	Н	Н	Н	Н	Н	*P	**FH	Н	*P	**FH	Н	Н	Н	Н	Н	Н	D A
PEDESTRIAN SIGNALS CROSSING CERMAK ROAD ON EAST SIDE OF LARAMIE AVENUE	н	Н	Н	Н	н	Н	Н	н	н	н	н	Н	Н	Н	*Р	**FH	н	Н	R K
PEDESTRIAN SIGNALS CROSSING CERMAK ROAD ON WEST SIDE OF LARAMIE AVENUE	н	Н	Н	н	н	н	н	н	Н	Н	Н	Н	Н	Н	*Р	**FH	Н	Н	

- * TO APPEAR ONLY UPON PUSHBUTTON ACTUATION
- ** FLASHING " IS TO TERMINATE AT THE COMPLETION
 OF THE PEDESTRIAN INTERVAL CLEARANCE
- THIS " OR FLASHING " INTERVAL MAY FINISH TIMING
 IN THE BIDIRECTIONAL STRAIGHT THROUGH MOVEMENT IF
 THE LEFT ARROW TIME IS NOT SUFFICIENT TO COMPLETE " INTERVALS

P = ILLUMINATED PERSON = WALK
FH = ILLUMINATED FLASHING HAND = FLASHING DON'T WALK
H = ILLUMINATED SOLID HAND = DON'T WALK

PHASE 2 AND 6 SHALL BE PLACED ON RECALL.

EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION

CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER	1		5		5			8		8		11		11			14		14			CLEAR TO
EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	1A	1B	1C	1D	1E	1F	1G	1H	11	1K	1L	1M	1N	1P	1Q	1R	15	1T	10	2	3	NORMAL SEQUENCE
CHANGE TO EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	2 OR	1C	2	1E	1F	3	1H	2	1K	1L	3	2	1P	1Q	3	15	1T	2	3			\Diamond
CERMAK ROAD EB END MAST ARM AND FAR LEFT SIGNALS	R ← Y	R	R	R	R	R	G ∢ -G	G ← Y	G ← G	Y	R	G	G	Y	R	R	R	R	R	G	R	\Diamond
CERMAK ROAD EB MID MAST ARM AND FAR RIGHT SIGNALS	R	R	R	R	R	R	G	G	G	Y	R	G	G	Y	R	R	R	R	R	G	R	\Diamond
CERMAK ROAD WI END MAST ARM AND FAR LEFT SIGNALS		G ← G	G ← Y	G ∢ -G	Y	R	R	R	R	R	R	G	G	Y	R	R	R	R	R	G	R	\Diamond
CERMAK ROAD WI MID MAST ARM AND FAR RIGHT SIGNALS	B R	G	G	G	Y	R	R	R	R	R	R	G	G	Y	R	R	R	R	R	G	R	\Diamond
LARAMIE AVENUE NE	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	Υ	R	G	R	G	\Diamond
LARAMIE AVENUE SB END MAST ARM AND FAR LEFT SIGNALS	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	Υ	R	G	R	G	\Diamond
LARAMIE AVENUE SB NEAR RIGHT AND FAR RIGHT MAST ARM SIGNAL	l R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	Υ	R	G	R	G	\Diamond
PEDESTRIAN SIGNALS CROSSING LARAMIE AVENUE ON NORTH SIDE OF CERMAK ROAD	Н	FH	Н	FH	Н	Н	н	н	Н	Н	Н	FH	FH	Н	Н	Н	Н	Н	н	Н	Н	\Diamond
PEDESTRIAN SIGNALS CROSSING LARAMIE AVENUE ON SOUTH SIDE OF CERMAK ROAD	Н	Н	Н	Н	Н	Н	FH	Н	FH	Н	Н	FH	FH	Н	Н	Н	Н	Н	Н	Н	Н	\Diamond
PEDESTRIAN SIGNALS CROSSING CERMAK ROAD ON EAST SIDE OF LARAMIE AVENUE	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	FH	Н	Н	FH	Н	Н	\Diamond
PEDESTRIAN SIGNALS CROSSING CERMAK ROAD ON WEST SIDE OF LARAMIE AVENUE	н	Н	н	Н	Н	н	н	н	н	н	н	н	н	н	н	FH	н	н	FH	Н	Н	\Diamond

EMERGENCY VEHICLE SEQUENCE SHALL PROVIDE THE PROPER CLEARANCE INTERVAL TO RESUME THE NORMAL SEQUENCE OF OPERATION OR PROPER CLEARANCE INTERVAL TO DISPLAY A DIFFERENT EMERGENCY INTERVAL AFTER EMERGENCY VEHICLE INTERVAL 2 OR 3 IS TERMINATED.

TS 12785 IDOT CENTRACS FORMER ECON 108

AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Belmont Road, Suite 4B
Downers Grove, IL 60516

USER NAME = msomer	DESIGNED -	TM	REVISED	-
	DRAWN -	TM, SR	REVISED	-
PLOT SCALE = \$SCALE\$	CHECKED -	JAR	REVISED	-
PLOT DATE = 03/19/2025	DATE -	05/23/2024	REVISED	-

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

PREEMPTOR PREEMPTOR NUMBER 3 NUMBER 4

SEQUENCE OF OPERATION AND EMERGENCY VEHICLE PREEMPTION											
SEQUENCE OF OPERATION AND EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION											
	CEF	<u>RMAK RD</u>	AND LA	<u> AKAWIE</u>	AVE						
SCALE: NTS	SHEET	OF	SHEETS	STA.	TO STA.						

ON WEST SIDE OF 54TH AVENUE

RAILROAD PREEMPTION SEQUEN	ICE	0F	0PI	ERA	TION	1								PREEMPTOR NUMBER 2				
CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER	1		5		8	:	11	1	.4									
CHANGE FROM EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER										-	2	3	3					
RAILROAD PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	1A	1B	1C	1D	1E	1F	1G	1H	1,1	1K	1L	1M	1N	2	3	4	5	CLEAR TO
CHANGE TO RAILROAD PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	2	1C	2	1E	2	1G	2	11	2	1L	2	1N	2	3	4	5		NORMAL SEQUENCE
CERMAK ROAD EB END MAST ARM AND FAR LEFT SIGNALS	R ← Y	R	R	Υ	R	Υ	R	R	R	Y	R	R	R	R	R	R	G	\triangle
CERMAK ROAD EB MID MAST ARM AND FAR RIGHT SIGNALS	R	R	R	Y	R	Y	R	R	R	Y	R	R	R	R	R	R	G	Δ
CERMAK ROAD WB END MAST ARM AND FAR LEFT SIGNALS	R ← Y	Υ	R	R	R	Y	R	R	R	Y	R	R	R	R	R	R	G	Δ
CERMAK ROAD WB MID MAST ARM AND FAR RIGHT SIGNALS	R	Υ	R	R	R	Y	R	R	R	Y	R	R	R	R	R	R	G	\triangle
54TH AVENUE NB ALL SIGNALS	R	R	R	R	R	R	R	Υ	R	R	R	Y	R	R	R	R	R	\triangle
54TH AVENUE SB END MAST ARM AND FAR LEFT SIGNALS	R	R	R	R	R	R	R	G	G	R	R	G	G	G ← G	Y	R	R	\triangle
54TH AVENUE SB NEAR RIGHT AND FAR RIGHT MAST ARM SIGNALS	R	R	R	R	R	R	R	G	G	R	R	G	G	G	Y	R	R	Δ
PEDESTRIAN SIGNALS CROSSING 54TH AVENUE ON NORTH SIDE OF CERMAK ROAD	Н	FH	Н	Н	Н	FH	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Δ
PEDESTRIAN SIGNALS CROSSING 54TH AVENUE ON SOUTH SIDE OF CERMAK ROAD	Н	Н	Н	FH	Н	FH	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	\triangle
PEDESTRIAN SIGNALS CROSSING CERMAK ROAD ON EAST SIDE OF 54TH AVENUE	Н	Н	Н	Н	Н	Н	Н	FH	Н	Н	Н	Н	Н	Н	Н	Н	Н	\triangle
PEDESTRIAN SIGNALS CROSSING CERMAK ROAD								- FII										

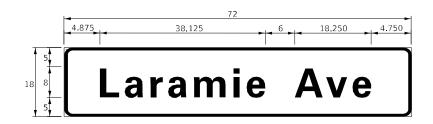
ARILROAD PREEMPTION SEQUENCE SHALL PROVIDE THE PROPER CLEARANCE INTERVAL TO RESUME THE NORMAL SEQUENCE OF OPERATIONS OR PROPER CLEARANCE INTERVAL TO DISPLAY AN EMERGENCY VEHICLE INTERVAL (IF APPLICABLE) AFTER RAILROAD PREEMPTION INTERVAL 5 IS TERMINATED.

TS 12785 IDOT CENTRACS FORMER ECON 108

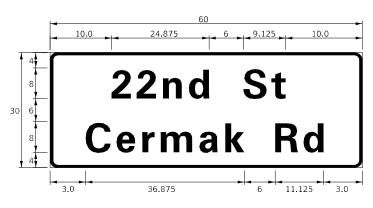
USER NAME = msomer	DESIGNED -	-	TM	REVISED	-
	DRAWN -	-	TM, SR	REVISED	-
PLOT SCALE = \$SCALE\$	CHECKED -		JAR	REVISED	-
PLOT DATE = 03/19/2025	DATE -	-	05/23/2024	REVISED	-

STATE	E OF ILLINOIS	
DEPARTMENT	OF TRANSPOR	TATION

ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE



DESIGN	AREA	SIGN PANEL	SHEETING	QTY.
SERIES	(SQ FT)	TYPE	TYPE	REQUIRED
D	9	1	ZZ	2



DESIGN	AREA	SIGN PANEL	SHEETING	QTY.
SERIES	(SQ FT)	TYPE	TYPE	REQUIRED
D	12.5	2	ZZ	2

NOTE: FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION PLEASE SEE DISTRICT ONE MAST ARM MOUNTED STREET NAME SIGNS DETAIL.

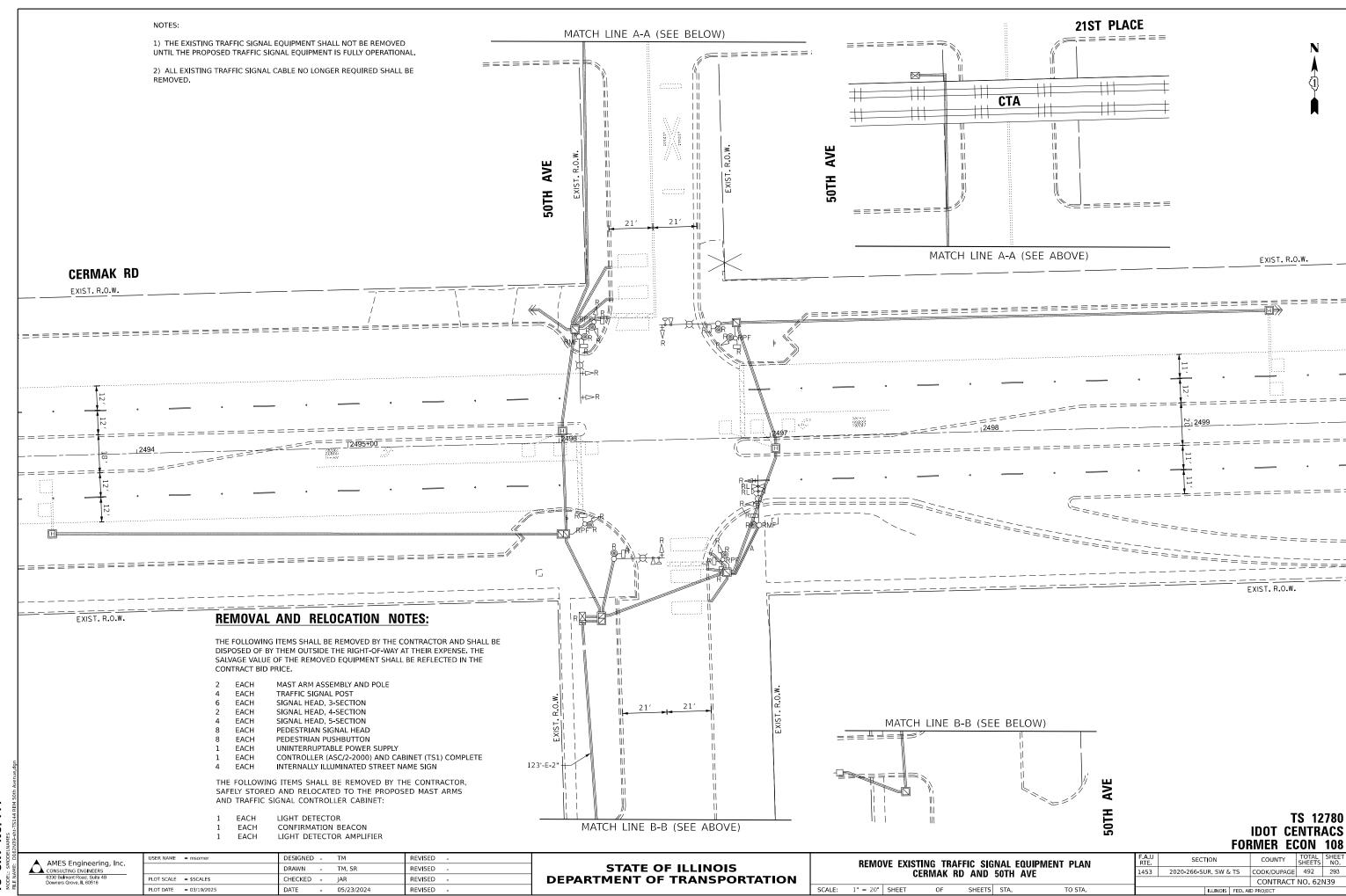
SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
SIGN PANEL - TYPE 1	SQ FT	18
SIGN PANEL - TYPE 2	SQ FT	25
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	26
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	26
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	273
HANDHOLE	EACH	2
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	871
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	944
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	2064
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	608
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	40
TRAFFIC SIGNAL POST, 16 FT.	EACH	2
STEEL MAST ARM ASSEMBLY AND POLE, 44 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 46 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	8
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	26
DRILL EXISTING HANDHOLE	EACH	5
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	7
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	2
PEDESTRIAN SIGNAL HEAD, L.E.D., 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	9
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	2
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	1660
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	2
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	445
SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
PEDESTRIAN SIGNAL POST, 5 FT.	EACH	3
FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	1
REMOVE AND REPLACE BATTERIES FOR UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8
CONCRETE FOUNDATION, TYPE A, 12-INCH DIAMETER	FOOT	12
LED SIGNAL FACE, LENS COVER	EACH	19
	EACH	
CENTRACS LICENSE EXPANSION		1
FIBER OPTIC INTERCONNECT CENTER, 48 PORT	EACH	1
LED SIGNAL MODULE REPLACEMENT	EACH	5

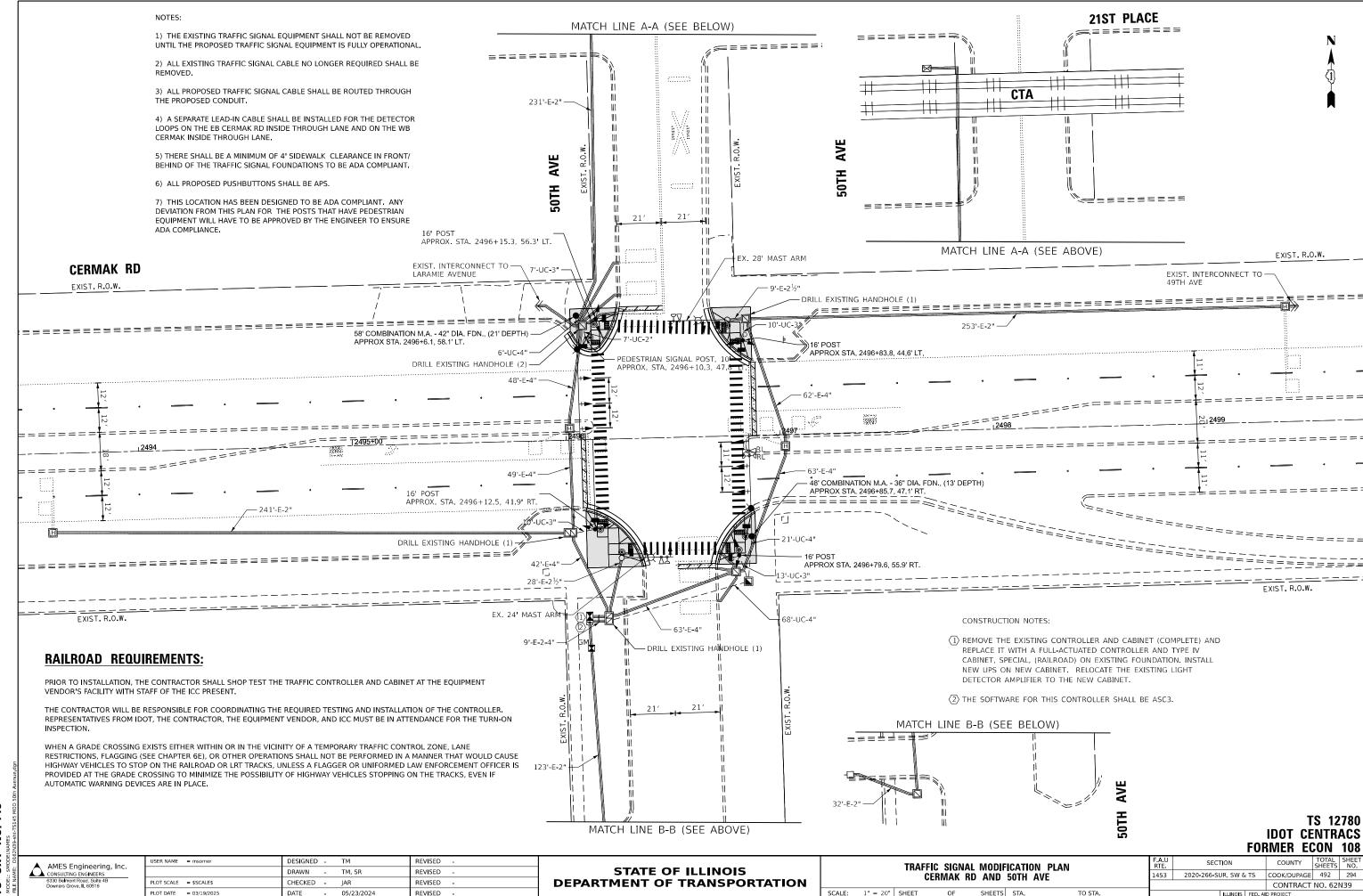
* - 100% COST TO TOWN OF CICERO

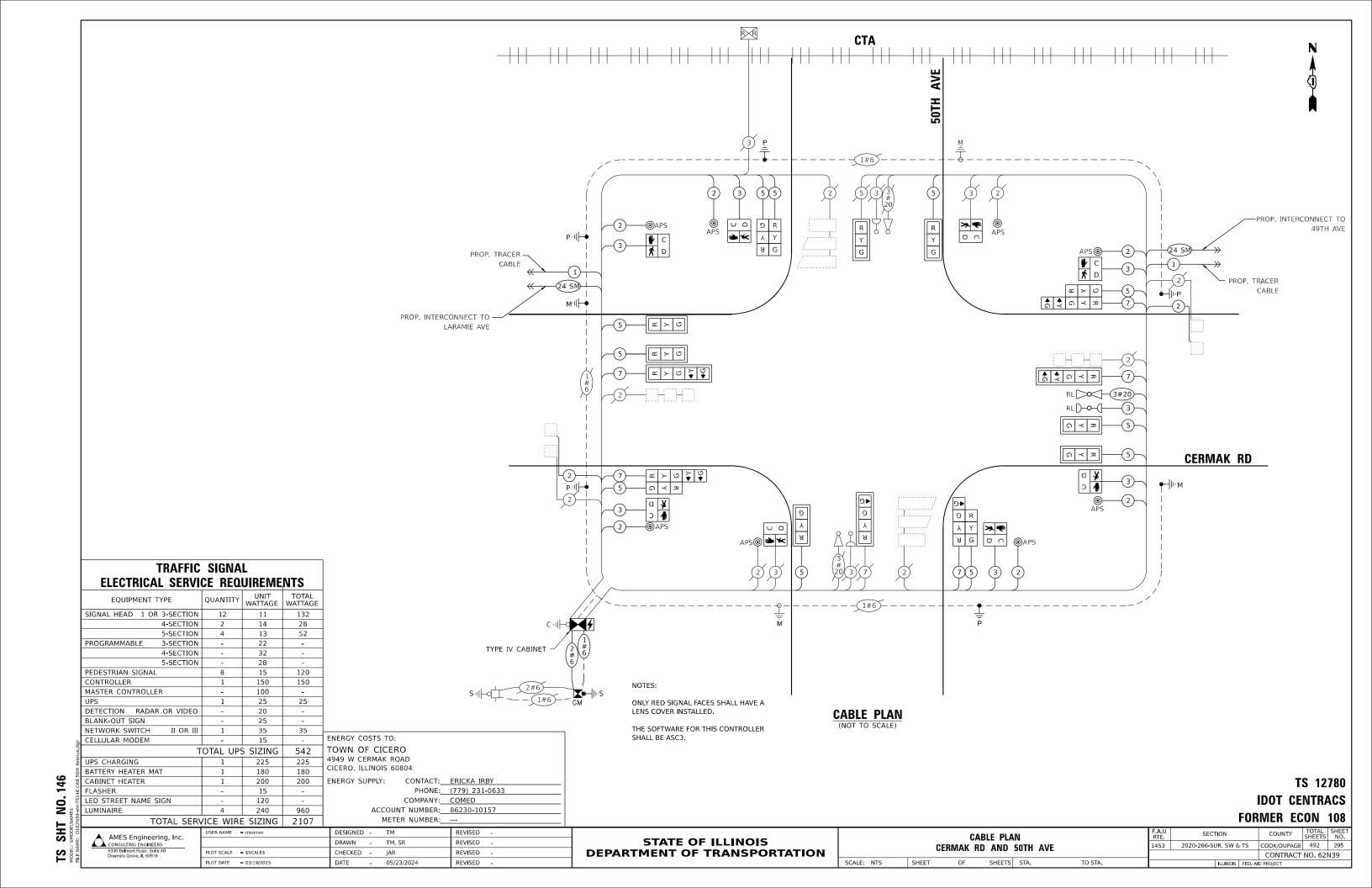
SCALE: NTS

TS 12785 IDOT CENTRACS FORMER ECON 108



TS SHT NO. 144





SEQUENCE OF OPERATION

MOVEMENT	5	5 → √ 1				← ▶			5			← - ← 2 - ← ← - ← -	- ► - 6 - ►		↑ 4				
PHASE		1 -	+ 5			1 + 6			2 + 5			2 -	- 6			4 -	⊦ 8		F L
INTERVAL	1	2	3	4	5	6	7	8	9	10	11	12	13A	13B	14	15	16A	16B	A S
CHANGE TO PHASE		1+6	2+5	2+6	Φ/	Φ/	2+6	θ/	Φ/	2+6			4-	+8			1- 2-	+5 +6 +5 +6	Н
CERMAK ROAD EB MID AND FAR RIGHT MAST ARM SIGNALS	R	R	R	R	R	R	R	G	G	G	G	G	Υ	R	R	R	R	R	R
CERMAK ROAD EB END MAST ARM AND FAR LEFT SIGNALS	R ← G	R ← Y	R ← G	R ← Y	R	R	R	G ← G	G ∢ -G	G ← Y	G	G	Υ	R	R	R	R	R	R
CERMAK ROAD WB MID AND FAR RIGHT MAST ARM SIGNALS	R	R	R	R	G	G	G	R	R	R	G	G	Υ	R	R	R	R	R	R
CERMAK ROAD WB END MAST ARM AND FAR LEFT SIGNALS		R ← G	R ← Y	R ← Y	G ← G	G ← G	G ← Y	R	R	R	G	G	Υ	R	R	R	R	R	R
50TH AVENUE NB ALL SIGNALS	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	G	Y	R	R
50TH AVENUE SB NEAR RIGHT SIGNAL	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	G	Y	R	R
50TH AVENUE SB END MAST ARM AND FAR LEFT SIGNALS	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	G	Y	R	R
PEDESTRIAN SIGNALS CROSSING 50TH AVENUE ON NORTH SIDE OF CERMAK ROAD	Н	н	Н	н	*P	**FH	н	Н	Н	Н	*P	**FH	Н	Н	Н	Н	Н	Н	
PEDESTRIAN SIGNALS CROSSING 50TH AVENUE ON SOUTH SIDE OF CERMAK ROAD	Н	Н	Н	Н	Н	Н	Н	*Р	**FH	Н	*P	**FH	Н	Н	Н	Н	Н	Н	D A
PEDESTRIAN SIGNALS CROSSING CERMAK ROAD ON EAST SIDE OF 50TH AVENUE	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	*P	**FH	Н	Н	R K
PEDESTRIAN SIGNALS CROSSING CERMAK ROAD ON WEST SIDE OF 50TH AVENUE	Н	Н	Н	Н	н	Н	Н	Н	Н	Н	Н	Н	н	Н	*Р	**FH	Н	Н	

- * TO APPEAR ONLY UPON PUSHBUTTON ACTUATION
- ** FLASHING " IS TO TERMINATE AT THE COMPLETION
 OF THE PEDESTRIAN INTERVAL CLEARANCE
- THIS " OR FLASHING " INTERVAL MAY FINISH TIMING
 IN THE BIDIRECTIONAL STRAIGHT THROUGH MOVEMENT IF
 THE LEFT ARROW TIME IS NOT SUFFICIENT TO COMPLETE " INTERVALS"

P = ILLUMINATED PERSON = WALK
FH = ILLUMINATED FLASHING HAND = FLASHING DON'T WALK
H = ILLUMINATED SOLID HAND = DON'T WALK

PHASE 2 AND 6 SHALL BE PLACED ON RECALL.

EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION

																				NUMBER 3	NUMBER 4	
CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER	1		5		5			8		8		11		11			14		14			CLEAR TO
EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	1A	1B	10	1D	1E	1F	1G	1H	1,1	1K	1L	1M	1N	1P	10	1R	15	1T	1U	2	3	NORMAL SEQUENCE
CHANGE TO EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	2 OR 3	1C	2	1E	1F	3	1H	2	1K	1L	3	2	1P	1Q	3	15	1T	2	3			\Diamond
CERMAK ROAD EB MID AND FAR RIGHT MAST ARM SIGNALS	R	R	R	R	R	R	G	G	G	Y	R	G	G	Y	R	R	R	R	R	G	R	\Diamond
CERMAK ROAD EB END MAST ARM AND FAR LEFT SIGNALS	R ← Y	R	R	R	R	R	G ← G	G ← Y	G ∢ -G	Y	R	G	G	Y	R	R	R	R	R	G	R	\Diamond
CERMAK ROAD WB MID AND FAR RIGHT MAST ARM SIGNALS	R	G	G	G	Υ	R	R	R	R	R	R	G	G	Y	R	R	R	R	R	G	R	\Diamond
CERMAK ROAD WB END MAST ARM AND FAR LEFT SIGNALS	R ← Y	G ∢ -G	G ← Y	G ∢ -G	Υ	R	R	R	R	R	R	G	G	Y	R	R	R	R	R	G	R	\Diamond
50TH AVENUE NB ALL SIGNALS	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	Y	R	G	R	G	\Diamond
50TH AVENUE SB NEAR RIGHT SIGNAL	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	Y	R	G	R	G	\Diamond
50TH AVENUE SB END MAST ARM AND FAR LEFT SIGNALS	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	Y	R	G	R	G	\Diamond
PEDESTRIAN SIGNALS CROSSING 50TH AVENUE ON NORTH SIDE OF CERMAK ROAD	н	FH	Н	FH	Н	н	н	н	Н	Н	Н	FH	FH	Н	Н	Н	н	Н	Н	Н	Н	\Diamond
PEDESTRIAN SIGNALS CROSSING 50TH AVENUE ON SOUTH SIDE OF CERMAK ROAD	н	н	Н	н	Н	Н	FH	н	FH	Н	Н	FH	FH	Н	Н	Н	н	Н	Н	Н	Н	\Diamond
PEDESTRIAN SIGNALS CROSSING CERMAK ROAD ON EAST SIDE OF 50TH AVENUE	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	FH	Н	Н	FH	Н	Н	\Diamond
PEDESTRIAN SIGNALS CROSSING CERMAK ROAD ON WEST SIDE OF 50TH AVENUE	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	FH	Н	Н	FH	Н	н	\Diamond

EMERGENCY VEHICLE SEQUENCE SHALL PROVIDE THE PROPER CLEARANCE INTERVAL TO RESUME THE NORMAL SEQUENCE OF OPERATION OR PROPER CLEARANCE INTERVAL TO DISPLAY A DIFFERENT EMERGENCY INTERVAL AFTER EMERGENCY VEHICLE INTERVAL 2 OR 3 IS TERMINATED.

TS 12780 IDOT CENTRACS FORMER ECON 108

AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Behron Road, Suite 4B
Downers Grove, IL 60516

USER NAME = msomer	DESIGNED	-	TM	REVISED	-
	DRAWN	-	TM, SR	REVISED	-
PLOT SCALE = \$SCALE\$	CHECKED	-	JAR	REVISED	-
PLOT DATE = 03/19/2025	DATE	-	05/23/2024	REVISED	-

PREEMPTOR PREEMPTOR

										NOM	DER 3	NUME	SER 4	MOMBER 2				
CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER	1		5		8	1	l 1	1	.4									
CHANGE FROM EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER										:	2	3	3					
RAILROAD PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	1A	1B	1C	1D	1E	1F	1G	1H	1 J	1K	1L	1M	1N	2	3	4	5	CLEAR TO
CHANGE TO RAILROAD PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	2	1C	2	1E	2	1G	2	1J	2	1L	2	1N	2	3	4	5		NORMAL SEQUENC
CERMAK ROAD EB MID AND FAR RIGHT MAST ARM SIGNALS	R	R	R	Υ	R	Y	R	R	R	Y	R	R	R	R	R	R	G	\triangle
CERMAK ROAD EB END MAST ARM AND FAR LEFT SIGNALS	R ← Y	R	R	Y	R	Y	R	R	R	Y	R	R	R	R	R	R	G	\triangle
CERMAK ROAD WB MID AND FAR RIGHT MAST ARM SIGNALS	R	Y	R	R	R	Υ	R	R	R	Y	R	R	R	R	R	R	G	\triangle
CERMAK ROAD WB END MAST ARM AND FAR LEFT SIGNALS	R ← Y	Y	R	R	R	Υ	R	R	R	Y	R	R	R	R	R	R	G	\triangle
50TH AVENUE NB ALL SIGNALS	R	R	R	R	R	R	R	Υ	R	R	R	Υ	R	R	R	R	R	\triangle
50TH AVENUE SB NEAR RIGHT SIGNAL	R	R	R	R	R	R	R	G	G	R	R	G	G	G	Υ	R	R	\triangle
50TH AVENUE SB END MAST ARM AND FAR LEFT SIGNALS	R	R	R	R	R	R	R	G	G	R	R	G	G	G ← G	Y	R	R	\triangle
PEDESTRIAN SIGNALS CROSSING 50TH AVENUE ON NORTH SIDE OF CERMAK ROAD	Н	FH	Н	Н	Н	FH	Н	Н	Н	Н	н	Н	Ι	Н	Н	Н	Н	\triangle
PEDESTRIAN SIGNALS CROSSING 50TH AVENUE ON SOUTH SIDE OF CERMAK ROAD	Н	Н	Н	FH	Н	FH	Н	Н	Н	Н	Н	Н	Ι	Н	Н	H	Η	\triangle
PEDESTRIAN SIGNALS CROSSING CERMAK ROAD ON EAST SIDE OF 50TH AVENUE	Н	Н	Н	Н	Н	Н	Н	FH	Н	Н	Н	Н	Ι	Н	Н	H	Η	\triangle
PEDESTRIAN SIGNALS CROSSING CERMAK ROAD ON WEST SIDE OF 50TH AVENUE	Н	Н	Н	Н	Н	Н	Н	FH	Н	Н	Н	Н	Н	Н	Н	Н	Н	Δ

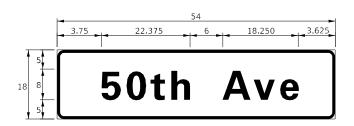
ARILROAD PREEMPTION SEQUENCE SHALL PROVIDE THE PROPER CLEARANCE INTERVAL TO RESUME THE NORMAL SEQUENCE OF OPERATIONS OR PROPER CLEARANCE INTERVAL TO DISPLAY AN EMERGENCY VEHICLE INTERVAL (IF APPLICABLE) AFTER RAILROAD PREEMPTION INTERVAL 5 IS TERMINATED.

TS 12780 IDOT CENTRACS FORMER ECON 108

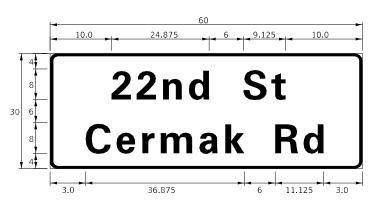
AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Belmont Road, Suite 4B
Downers Grove, IL 60516

USER NAME = msomer	DESIGNED - TM	REVISED -
	DRAWN - TM, SR	REVISED -
PLOT SCALE = \$SCALE\$	CHECKED - JAR	REVISED -
PLOT DATE = 03/19/2025	DATE - 05/23/2024	REVISED -

ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE



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



DESIGN	AREA	SIGN PANEL	SHEETING	QTY.
SERIES	(SQ FT)	TYPE	TYPE	REQUIRED
D	12.5	2	ZZ	2

NOTE: FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION PLEASE SEE DISTRICT ONE MAST ARM MOUNTED STREET NAME SIGNS DETAIL.

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
SIGN PANEL - TYPE 1	SQ FT	14
SIGN PANEL - TYPE 2	SQ FT	25
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	7
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	40
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	95
HANDHOLE	EACH	1
LUMINAIRE, LED, ROADWAY, OUPUT DESIGNATION H	EACH	2
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
RAILROAD, FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1026
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1224
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	2382
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1027
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	827
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	40
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	887
TRAFFIC SIGNAL POST, 16 FT.	EACH	4
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 48 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 58 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	20
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	13
CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	21
DRILL EXISTING HANDHOLE	EACH	5
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	7
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, WASTAKWI WOOM TED	EACH	5
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	1
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2
	EACH	2
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED		
PEDESTRIAN SIGNAL HEAD, L.E.D., 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	10
INDUCTIVE LOOP DETECTOR	EACH	6
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	3326
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	6
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	177
UNINTERRUPTABLE POWER SUPPLY AND CABINET, SPECIAL	EACH	1
SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
PEDESTRIAN SIGNAL POST, 10 FT.	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8
CONCRETE FOUNDATION, TYPE A, 12-INCH DIAMETER	FOOT	4
LED SIGNAL FACE, LENS COVER	EACH	18
CENTRACS LICENSE EXPANSION	EACH	1
FIBER OPTIC INTERCONNECT CENTER, 48 PORT	EACH	1

* - 100% COST TO TOWN OF CICERO

SCALE: NTS

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