## STATE OF ILLINOIS

## DEPARTMENT OF TRANSPORTATION **DIVISION OF HIGHWAYS**

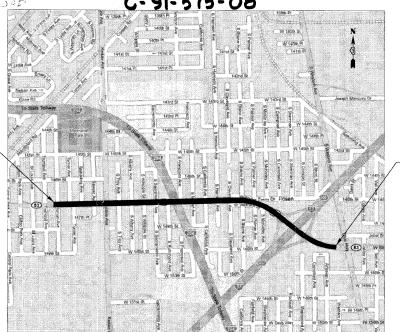
# PLANS FOR PROPOSED FEDERAL AID HIGHWAY

DISTRICT 1 **CONGESTION MITIGATION AIR QUALITY** FIBER OPTIC COMMUNICATIONS NETWORK

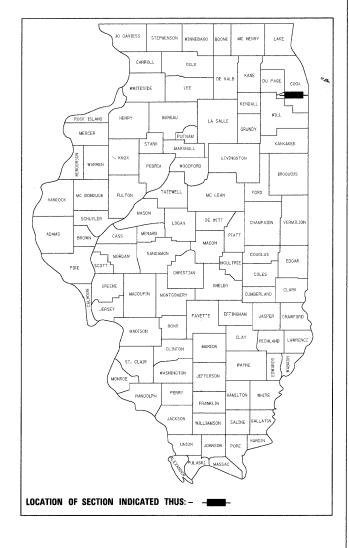
# IL. ROUTE 83 (147th STREET) FROM HOMAN AVENUE TO EAST OF I-57 RAMPS

F.A.U. ROUTE 1602 /IL 83 (147th ST.) **SECTION 2008-054 TS** PROJECT NO: CMM-1602(014) COOK COUNTY C- 91-575-08

END OF PROJECT



COOK 40 ILLINOIS CONTRACT NO. 60F06



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FOR INDEX OF SHEETS, SEE SHEET NO. 2

	IDOT STANDARDS
STD. No.	DESCRIPTION
000001-05	STANDARD SYMBOLS, ABBREVIATION AND PATTERNS
001006	DECIMAL OF AN INCH AND A FOOT
424001-05	CURB RAMPS FOR SIDEWALKS
606001-04	CONCRETE CURB TYPE B AND COMBINATION CONCRETE
000001 04	CURB AND GUTTER
606301-04	P.C. CONCRETE ISLANDS AND MEDIANS
606306-03	CORRUGATED P.C. CONCRETE MEDIAN
701006-03	OFF-RD OPERATIONS, 2L, 2W, 4.5 m (15') TO 600 mm (24")
	FROM PAVEMENT EDGE
701011-02	OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701101-02	OFF-RD OPERATIONS, MULTILANE, 4.5 m (15') TO 600 mm (24'
	FROM PAVEMENT EDGE
701301-03	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701501-05	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701601-06	URBAN LANE CLOSURE, MULTILANE 1W OR 2W
	NON-TRAVERSABLE MEDIAN
701606-06	URBAN LANE CLOSURE, MULTILANE 1W OR 2W
	MOUNTABLE MEDIAN
701701-06	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-04	LANE CLOSURE, MULTILANE, 1W OR 2W
	CROSSWALK OR SIDEWALK CLOSURE
701901-01	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS
814001-02	HANDHOLES
814006-02	DOUBLE HANDHOLES
857001-01	STANDARDS PHASE DESIGNATION DIAGRAMS
	AND PHASE SEQUENCES
862001-01	UNINTERRUPTABLE POWER SUPPLY (UPS)
873001-02	TRAFFIC SIGNAL GROUNDING & BONDING
877001-04	STEEL MAST ARM ASSEMBLY AND POLE
878001-07	CONCRETE FOUNDATION DETAILS
880001-01	SPAN WIRE MOUNTED SIGNALS AND
	BEACON INSTALLATION
880006-01	TRAFFIC SIGNAL MOUNTING DETAILS

PREPARED BY: Stan 7 murin Oil Dec. 1,2008

DETECTOR LOOP INSTALLATION

886001-01

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION 1-800-892-0123

**CONTRACT NO. 60F06** 

**BEGINNING OF PROJECT** 

CHRISTOPHER B. BURKE ENGINEERING LTD. PLAN SURVEYED.

STATE West Higgins Road, Suite 600

NOTE BOOK ALGANGY CHECKED.

NOTE BOOK ALGANGY CHECKED.

NO. CHECKED.

## **INDEX OF SHEETS**

1 2	TITLE SHEET INDEX OF SHEETS
3	SUMMARY OF QUANTITIES
4	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN IL. ROUTE 83 (147th ST.) AND HOMAN AVE.
5	TRAFFIC SIGNAL MODERNIZATION PLAN IL. ROUTE 83 (147th ST.) AND HOMAN AVE.
6	SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE IL. ROUTE 83 (147th ST.) AND HOMAN AVE.
7	TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN
8	IL. ROUTE 83 (147th ST.) AND KEDZIE AVE.  TEMPORARY CABLE PLAN, TEMPORARY PHASE DESIGNATION DIAGRAM AND TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE IL. ROUTE 83 (147th ST.) AND KEDZIE AVE.
9	TRAFFIC SIGNAL MODERNIZATION PLAN IL. ROUTE 83 (147th ST.) AND KEDZIE AVE.
10	SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE IL. ROUTE 83 (147th ST.) AND KEDZIE AVE.
11	TRAFFIC SIGNAL MODERNIZATION PLAN IL. ROUTE 83 (147th ST.) AND SACRAMENTO AVE.
12	SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE IL. ROUTE 83 (147th ST.) AND SACRAMENTO AVE.
13	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN IL. ROUTE 83 (147th ST.) AND HARRISON AVE.
14	TRAFFIC SIGNAL MODERNIZATION PLAN IL. ROUTE 83 (147th ST.) AND HARRISON AVE.
15	SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE IL. ROUTE 83 (147th ST.) AND HARRISON AVE.
16	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN  IL. ROUTE 83 (147th ST.) AND CLEVELAND AVE.
17	TRAFFIC SIGNAL MODERNIZATION PLAN IL. ROUTE 83 (147th ST.) AND CLEVELAND AVE.
18	SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE IL. ROUTE 83 (147th ST.) AND CLEVELAND AVE.
19	TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN  IL. ROUTE 83 (147th ST.) AND F.A. I-57 RAMPS "C" AND "D"
20	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN IL. ROUTE 83 (147th ST.) AND F.A. I-57 RAMPS
21	TEMPORARY CABLE PLAN AND TEMPORARY PHASE DESIGNATION DIAGRAM IL. ROUTE 83 (147th ST.) AND F.A. I-57 RAMPS "C" AND "D"
22	TRAFFIC SIGNAL MODERNIZATION PLAN IL. ROUTE 83 (147th ST.) AND F.A. I-57 RAMPS "C" AND "D"
23	SCHEDULE OF QUANTITIES, CABLE PLAN AND PHASE DESIGNATION DIAGRAM IL. ROUTE 83 (147th ST.) AND F.A. I-57 RAMPS "C" AND "D"
24	TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN IL. ROUTE 83 (147th ST.) AND F.A. I-57 RAMPS "A" AND "B"
25	TEMPORARY CABLE PLAN AND TEMPORARY PHASE DESIGNATION DIAGRAM IL. ROUTE 83 (147th ST.) AND F.A. I-57 RAMPS "A" AND "B"
26	TRAFFIC SIGNAL MODERNIZATION PLAN IL. ROUTE 83 (147th ST.) AND F.A. I-57 RAMPS "A" AND "B"
27	SCHEDULE OF QUANTITIES, CABLE PLAN AND PHASE DESIGNATION DIAGRAM IL. ROUTE 83 (147th ST.) AND F.A. I-57 RAMPS "A" AND "B"
8-30	INTERCONNECT PLAN
1-32	INTERCONNECT SCHEMATIC
3-34	MAST ARM MOUNTED STREET NAME SIGNS
5-38	DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAILS
39	DISTRICT 1 STANDARD TYPICAL PAVEMENT MARKINGS
40	ARTERIAL ROAD INFORMATION SIGN

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

	INDEX OF SI				F
ROUTE 83 (147th ST			OF I-57	RAMPS	1
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IES,00% SUMMARY OF QUANTIT 80/FED. 1007. 80 / FED. VILLAGE 201. STATE POSEN 80% FED. BOY. FED. 100% VILLAGE BOY. FED. 100% VILLAGE BOY. FED. VILLAGE 20% STATE POSEN

ZOY. STATE MIDLOTHIAN 20% STATE MIDLOTHIAN 20% STATE POSEN CONSTRUCTION TYPE C POSEN URBAN ILL Rte 83 (147th Street) @ Interconnect 4031-IF Homan I-57 Ramps I-57 Ramps Kedzie Sacramento Harrison Cleveland Avenue Avenue Avenue Avenue Avenue C&D A & B UNIT TOTAL Y031 1F Y031 3D \* Y031 1F Y031 3D \* Y031 1F Y031 3D \* Y031 1F Y031 3D \*\* Y031 1F Y031 3D \*\* Y031 1F Y031 3D \*\* ITEM Y031 1F Y031 1F 42400200 F TLAND CEMENT CONCRETE SIDEWALK 5 INCH SQ FT 3842 636 42400800 DETECTABLE WARNINGS SQ FT 431 117 44000600 SIDEWALK REMOVAL SQ FT 3796 636 144 1500 641 112 25 25 969 44001700 COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT
44003500 MEDIAN REMOVAL AND REPLACEMENT (SPECIAL)
67000400 ENGINEER'S FIELD OFFICE, TYPE A FOOT 472 76 140 SQ FT 256 218 38 CAL MO 1 0.125 1 0.125 0.125 0.125 0.125 0.125 0.125 LSUM 0.125 70102620 TRAFFIC CONTROL AND PROTECTION, STANDARD 701501 70102635 TRAFFIC CONTROL AND PROTECTION, STANDARD 701701 LSUM 0.125 0.125 0.125 LSUM 1 0.125 0.125 0.125 0.125 0.125 72000100 SIGN PANEL - TYPE 1 SQ FT 86 SQ FT 100 FOOT 390 25 25 163 25 25 78000400 THERMOPLASTIC PAVEMENT MARKING - LINE 6"
78000600 THERMOPLASTIC PAVEMENT MARKING - LINE 12" 227 102 8300400 THERMOPLASTIC PAVEMENT MARKING REMOVAL 
 SQ FT
 212

 FOOT
 5929
 283

 FOOT
 322
 34
 80 711 1000600 CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL 2705 433 478 81000700 CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEI 43 20 43 81000800 | CONDUIT IN TRENCH, 3" DIA., GALVANIZED STEEL FOOT 136 25 32 81001000 CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEE FOOT 263 10 FOOT 30 FOOT 2602 435 81001100 CONDUIT IN TRENCH, 5" DIA., GALVANIZED STEEL 10 10 242 10 304 81018500 CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL 81018900 CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL 637 378 854 FOOT 1517 234 230 244 236 195 81400100 HANDHOLE EACH 39 81400200 HEAVY-DUTY HANDHOLE EACH 10 81400300 DOUBLE HANDHOLE
81900200 TRENCH AND BACKFILL FOR ELECTRICAL WORK
85000200 MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
85700205 FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL
85700505 FULL-ACTUATED CONTROLLER IN EXISTING CABINET, SPECIAL EACH 2 872 FOOT 7164 2705 638 663 801 1047 1 EACH 6 1 1 EACH 86400100 TRANSCEIVER - FIBER OPTIC EACH 87301215 ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2 FOOT 2109 419 653 519 518 87301225 ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 30 FOOT 5572 1330 346 1094 1092 87301245 ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 50 87301255 ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 70 FOOT 12036 1603 1528 1579 1513 2918 2895 FOOT 2749 623 1089 180 1501 87301305 ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14. 1 PAIR FOOT 12469 1446 4212 87301805 ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 20 FOOT 1527 139 87502440 TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 F 87502480 TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 F FACH 1 EACH 87502500 TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT. 87700160 STEEL MAST ARM ASSEMBLY AND POLE, 24 FT. 87700170 STEEL MAST ARM ASSEMBLY AND POLE, 26 FT. EACH FACH EACH 87700180 STEEL MAST ARM ASSEMBLY AND POLE, 28 FT EACH 87700190 STEEL MAST ARM ASSEMBLY AND POLE, 30 FT EACH 87700210 STEEL MAST ARM ASSEMBLY AND POLE, 34 FT 87700220 STEEL MAST ARM ASSEMBLY AND POLE, 36 FT EACH 4 EACH 4 87700230 STEEL MAST ARM ASSEMBLY AND POLE, 38 FT EACH 1 87700250 STEEL MAST ARM ASSEMBLY AND POLE, 42 FT EACH 7700280 STEEL MAST ARM ASSEMBLY AND POLE 48 FT 87700290 STEEL MAST ARM ASSEMBLY AND POLE, 50 FT. FACH 87800150 | CONCRETE FOUNDATION, TYPE C FOOT 24 4 4 87800400 CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER 87800415 CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER 15 FOOT 240 60 87900200 DRILL EXISTING HANDHOLE EACH 1 EACH 53 88030020 SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED 8 88030050 SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED 88030100 SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED 88030110 SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED EACH 14 EACH 8 EACH 8 88030210 SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED

88102717 PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER

88102747 PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER EACH FACH 88200210 TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM EACH 61 12 88500100 INDUCTIVE LOOP DETECTOR EACH 16 88600100 DETECTOR LOOP, TYPE I 88800100 PEDESTRIAN PUSH-BUTTON FOOT 3435 337 549 889 549 574 EACH 22 4 89000100 PEDESTRIAN POSH-BUTTON
8900100 TEMPORARY TRAFFIC SIGNAL INSTALLATION
89501400 RELOCATE EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT
89501410 RELOCATE EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT
89502375 REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

(EXISTING) EACH EACH 89502380 REMOVE EXISTING HANDHOLE FACH 51 89502385 REMOVE EXISTING CONCRETE FOUNDATION EACH 49 X0322256 TEMPORARY INFORMATION SIGNING X0322925 ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 10 SQ FT 102.8 102.8 6536 FOOT 6536 X0325134 WIRELESS INTERCONNECT (COMPLETE) EACH 1 X0325705 RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2 EACH X0325737 TEMPORARY TRAFFIC SIGNAL TIMING EACH X8050015 | SERVICE INSTALLATION - POLE MOUNTED EACH 6 X8620020 UNINTERRUPTIBLE POWER SUPPLY
X8710020 FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM12F EACH 6 FOOT 6666 6666 X8730027 ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C
X8730250 ELECTRIC CABLE IN CONDUIT, NO. 20 3C, TWISTED, SHIELDED
XX000406 BRICK PAVER REMOVAL AND REPLACEMENT
20070600 7RAINESS FOOT 4319 FOOT 1170 552 820 514 642 798 993 356 346 240 228 • 100% OF THE COST SHALL BE PAID FOR BY THE VILLAGE OF MIDLOTHIAN \*\* 100% OF THE COST SHALL BE PAID FOR BY THE VILLAGE OF POSEN SPECIALTY MEMS

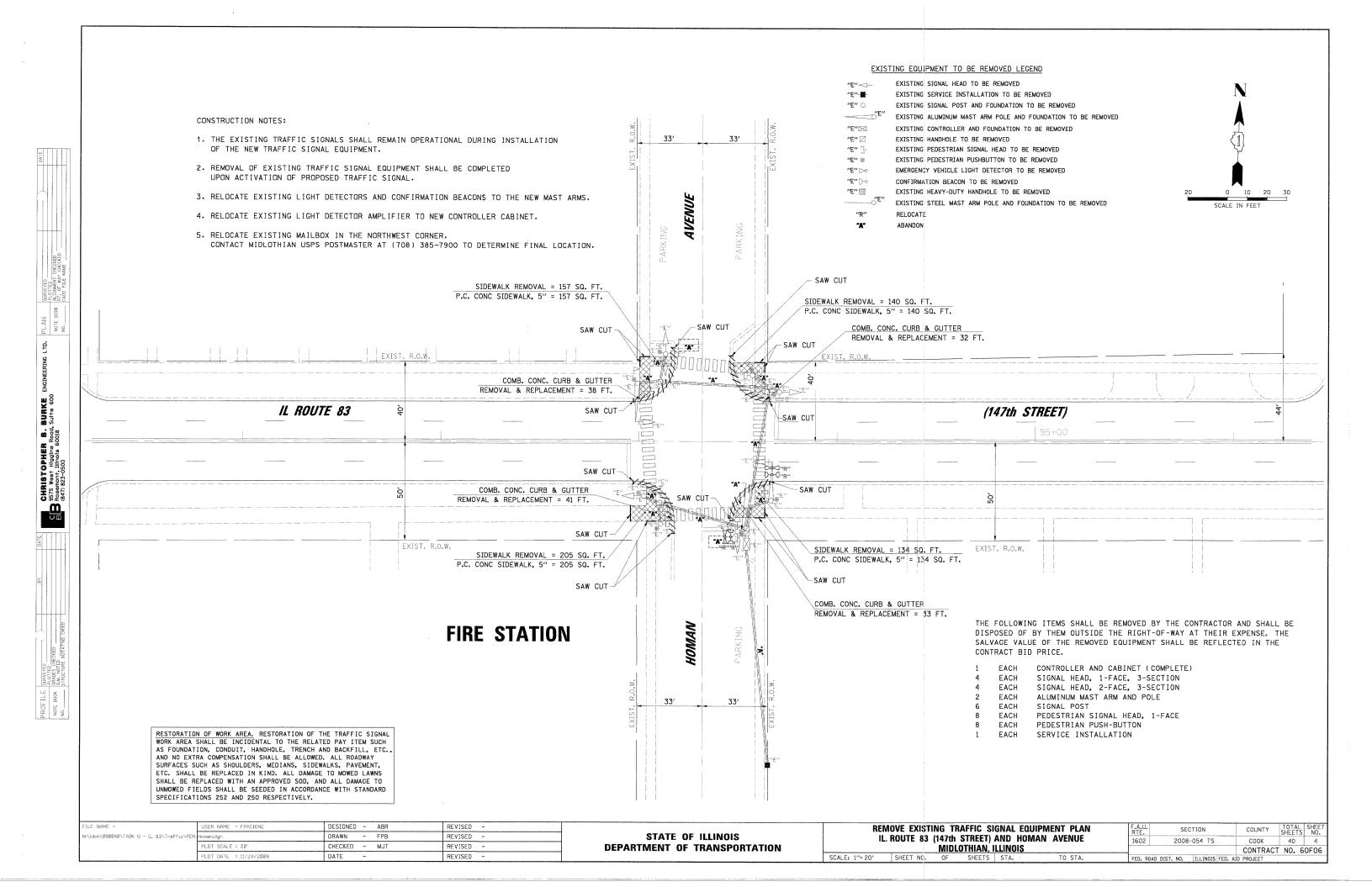
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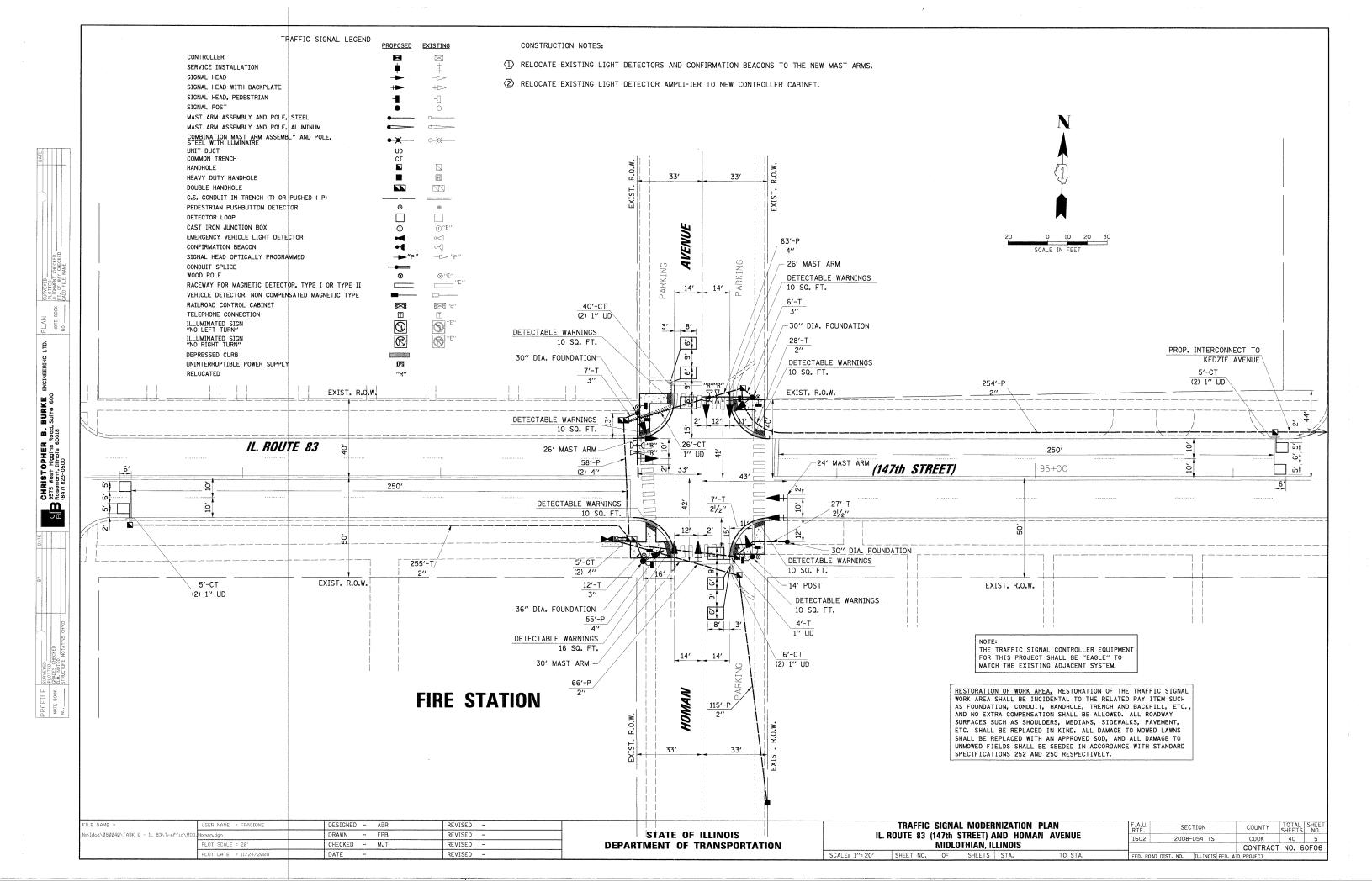
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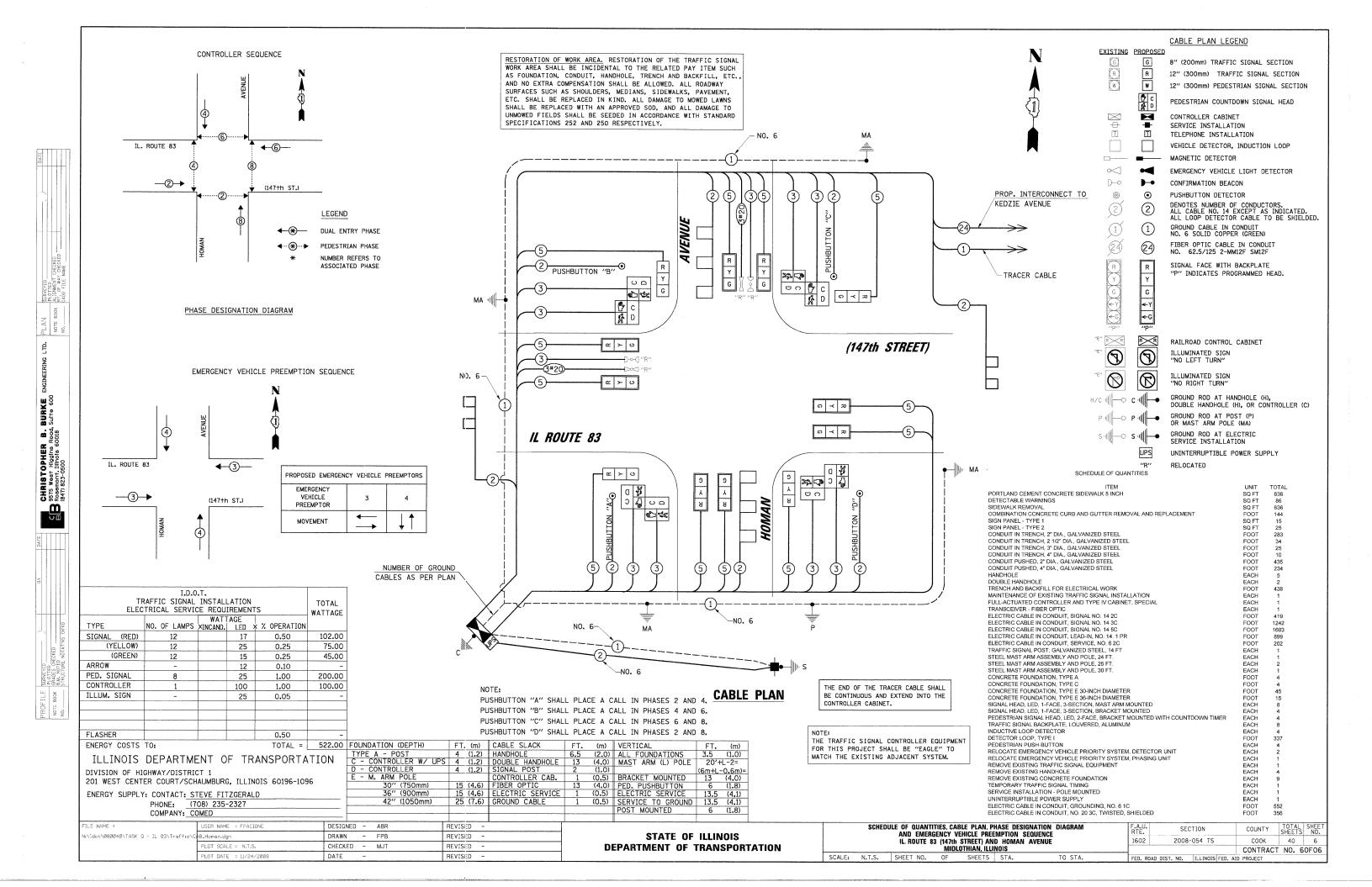
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

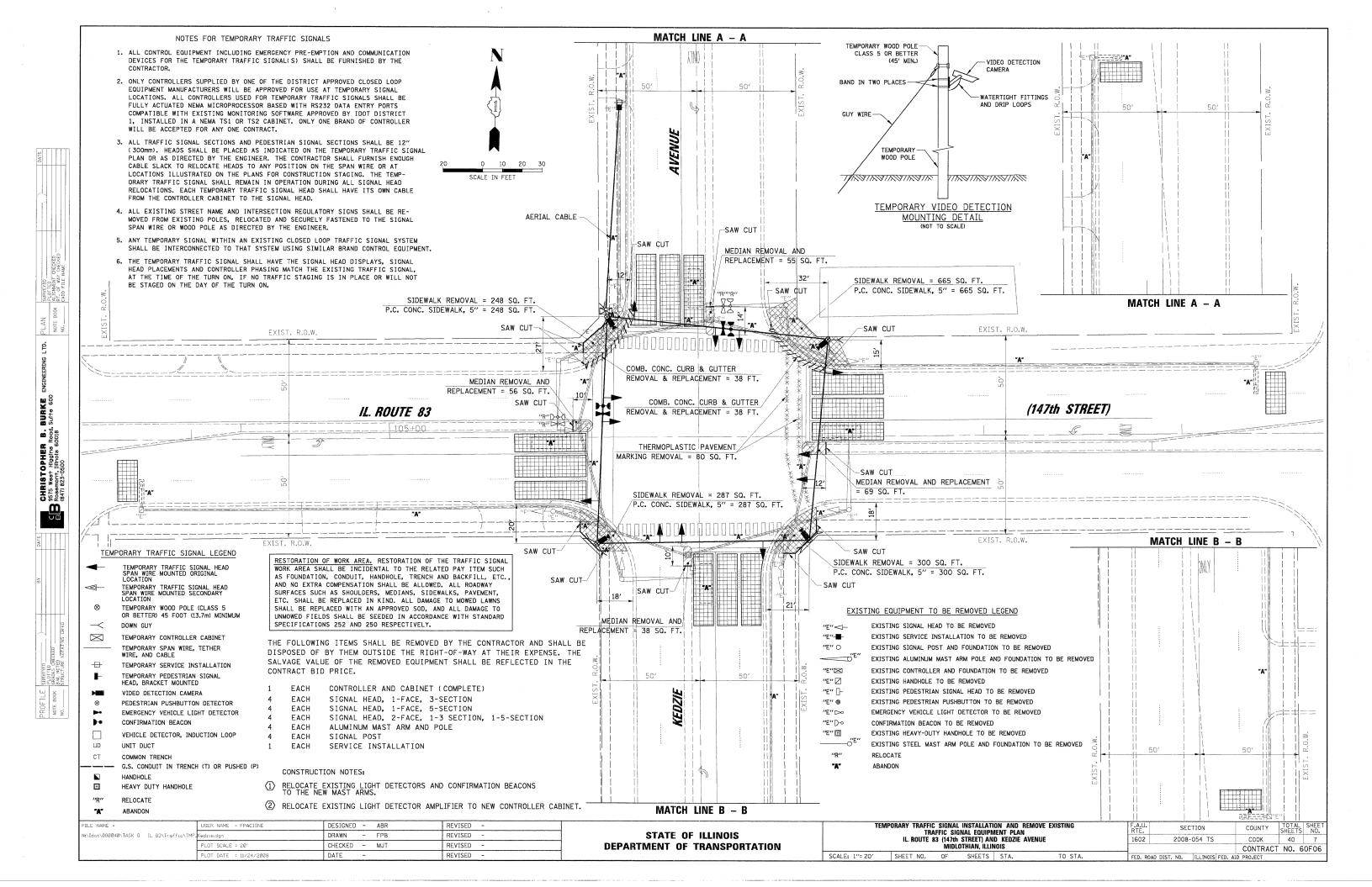
SUMMARY OF QUANTITIES IL. ROUTE 83 (147+h ST.) FROM HOMAN AVE. TO EAST OF I-57 RAMPS MIDLOTHIAN / POSEN, ILLINOIS SCALE: N.T.S. SHEET NO.

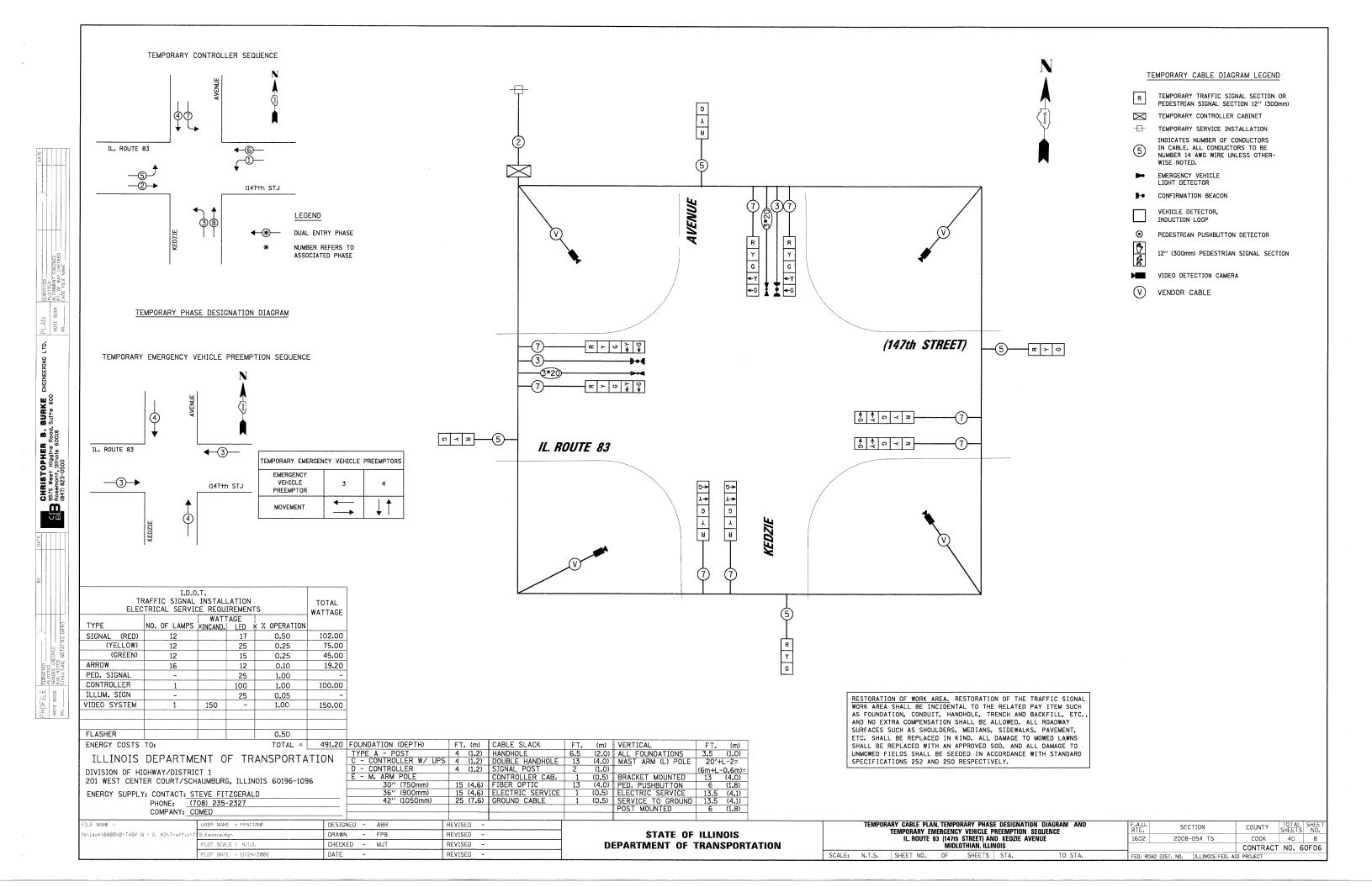
COUNTY TOTAL SHEE NO. SECTION COOK 1602 2008-054 TS 40 CONTRACT NO. 60F06 FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

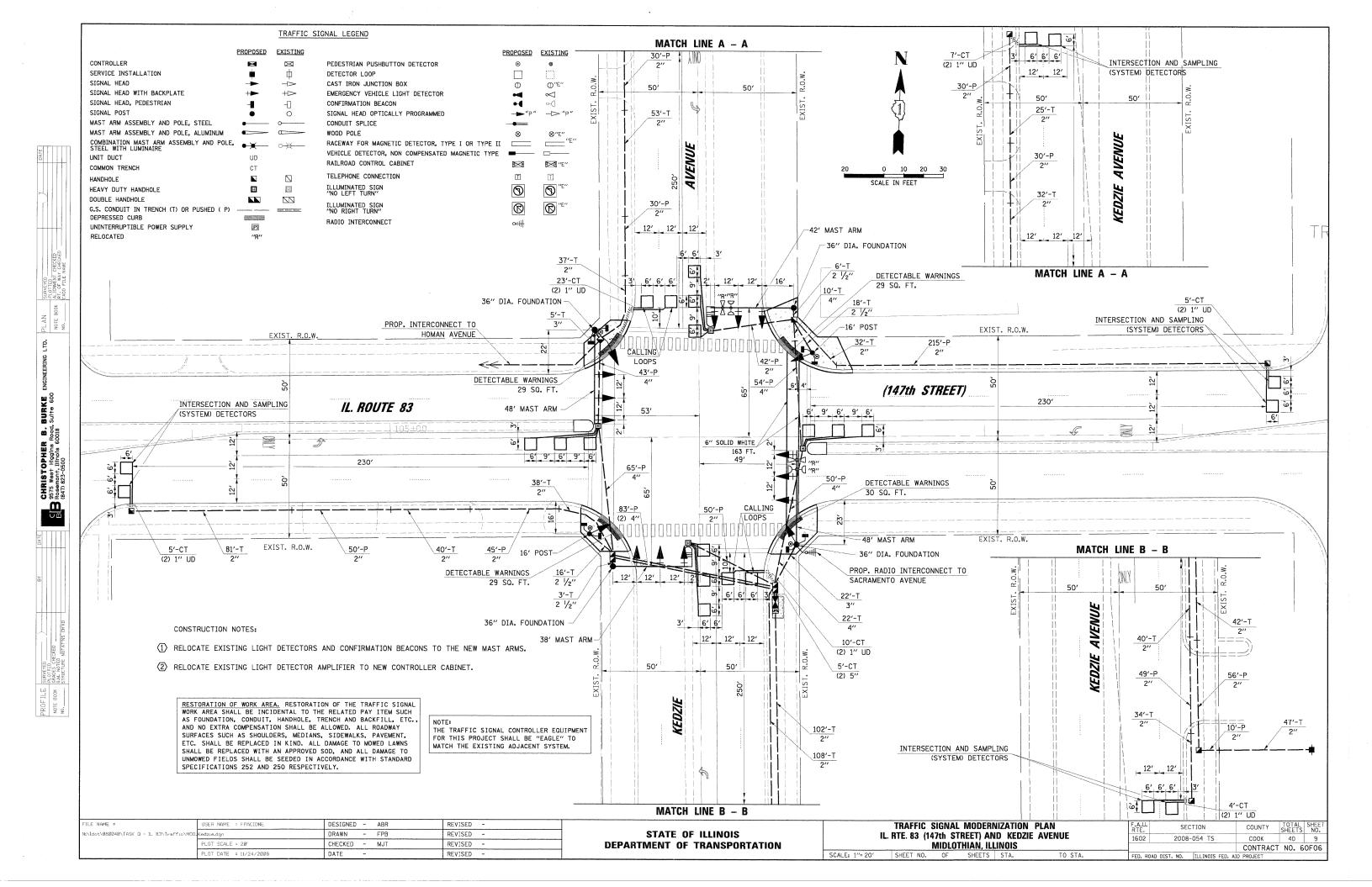


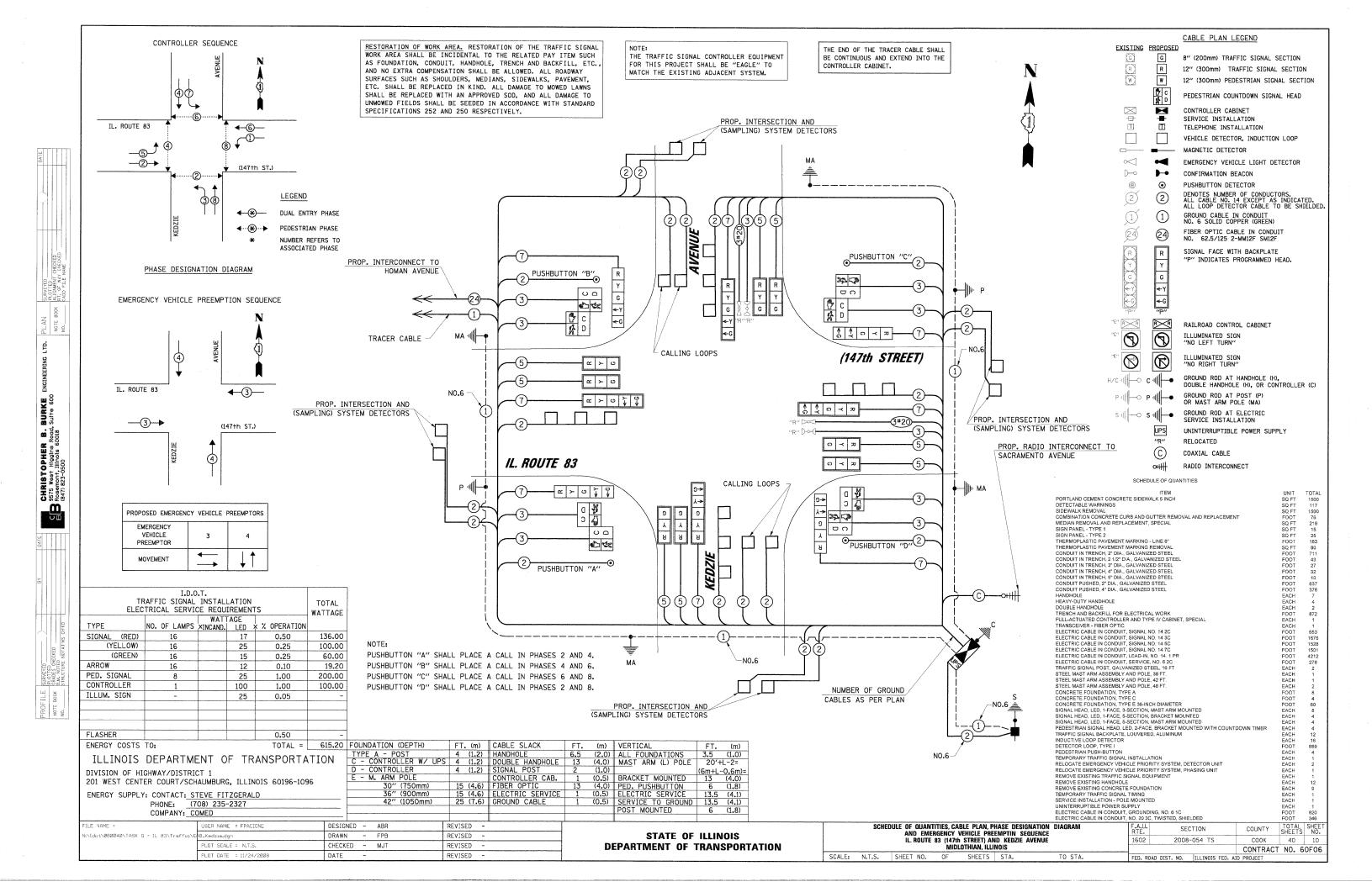


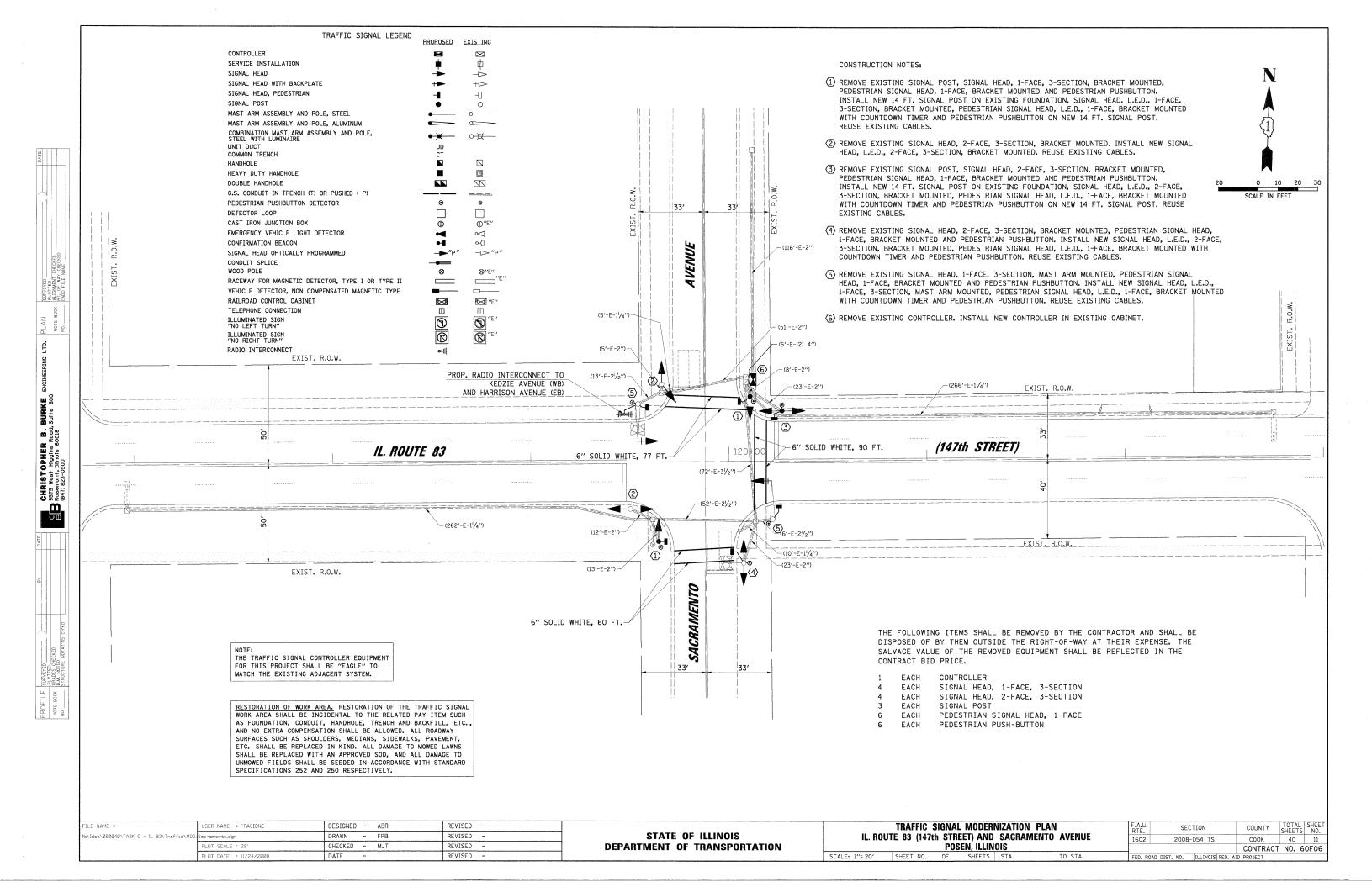


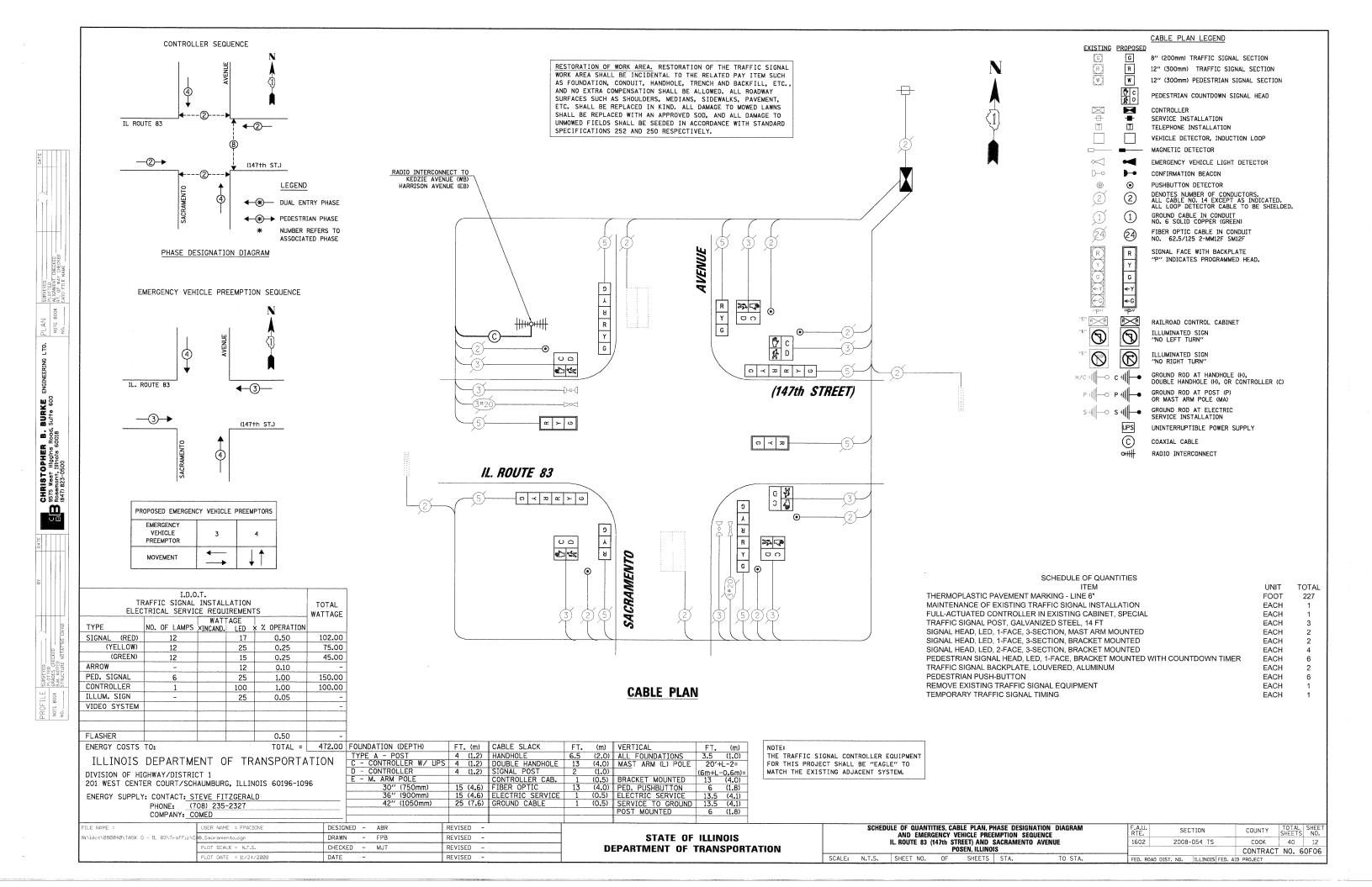


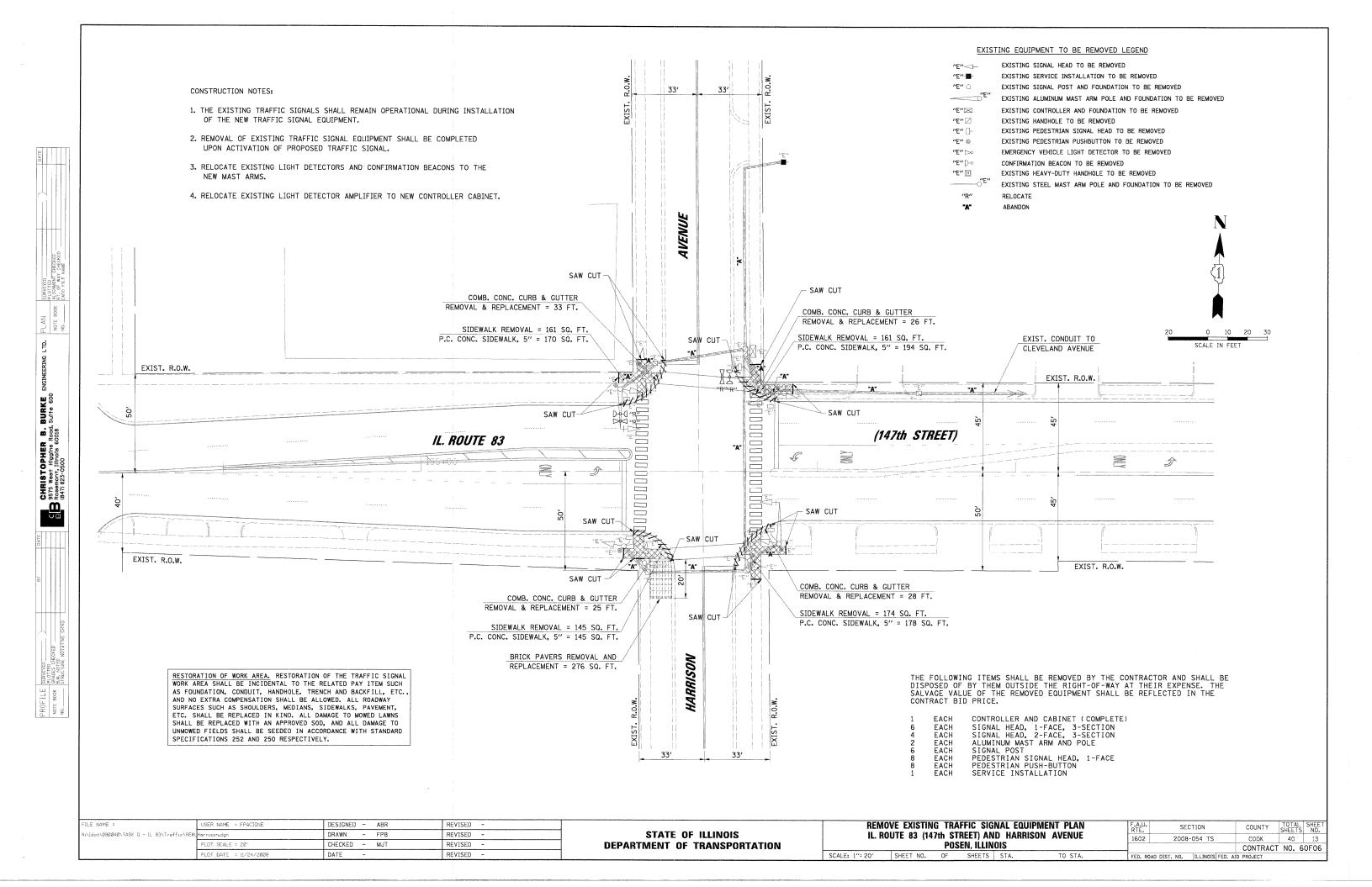


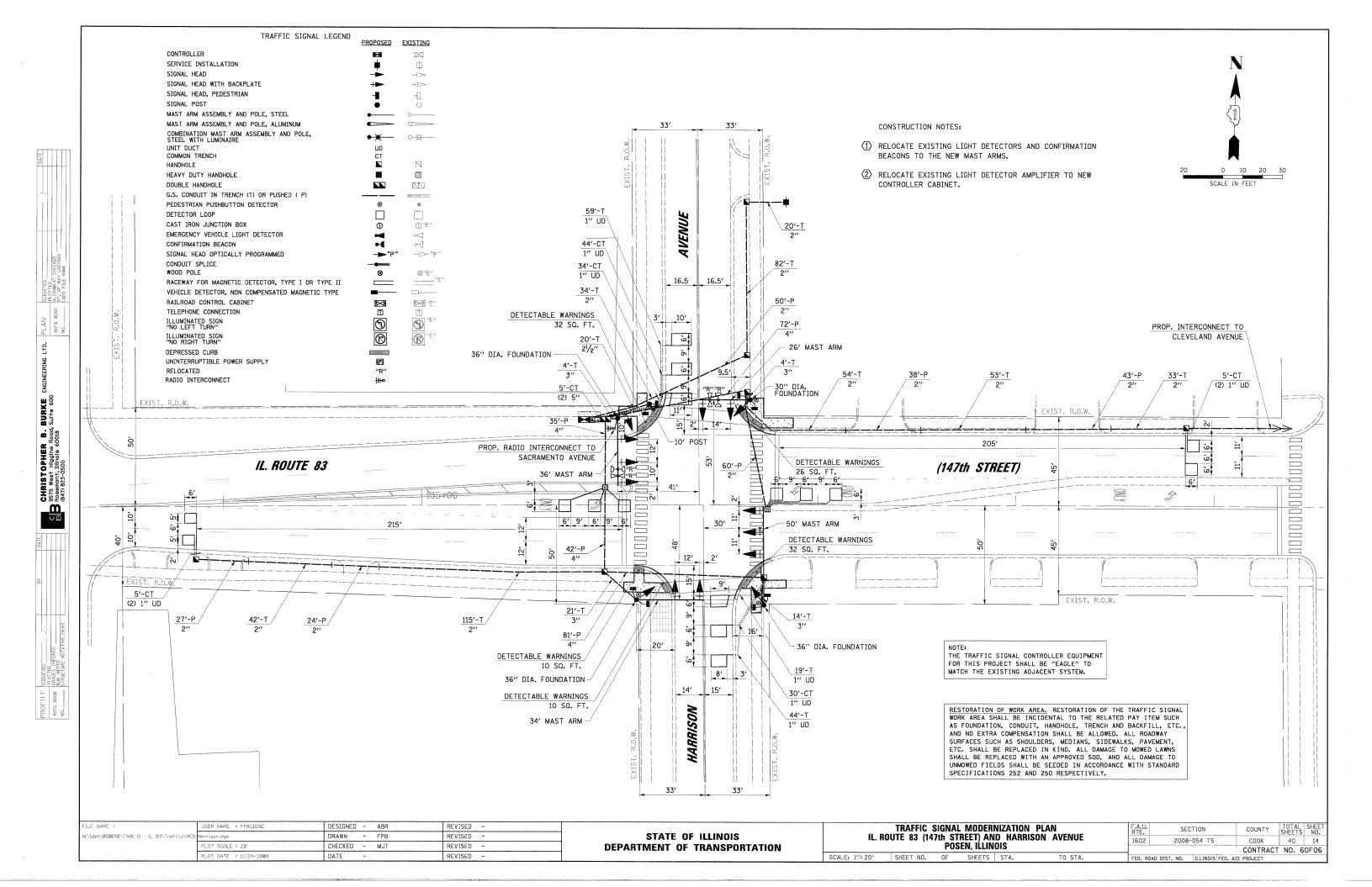


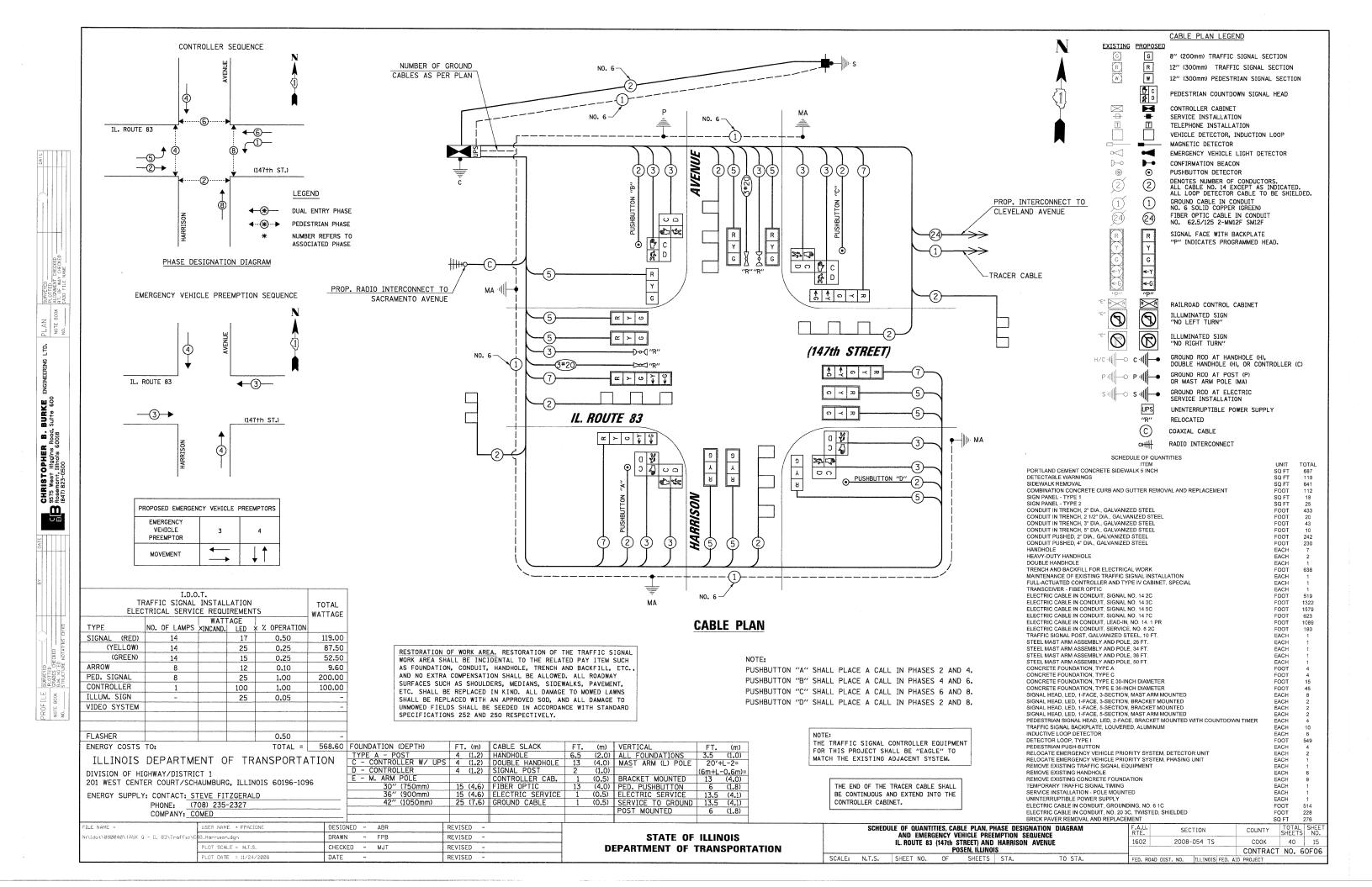


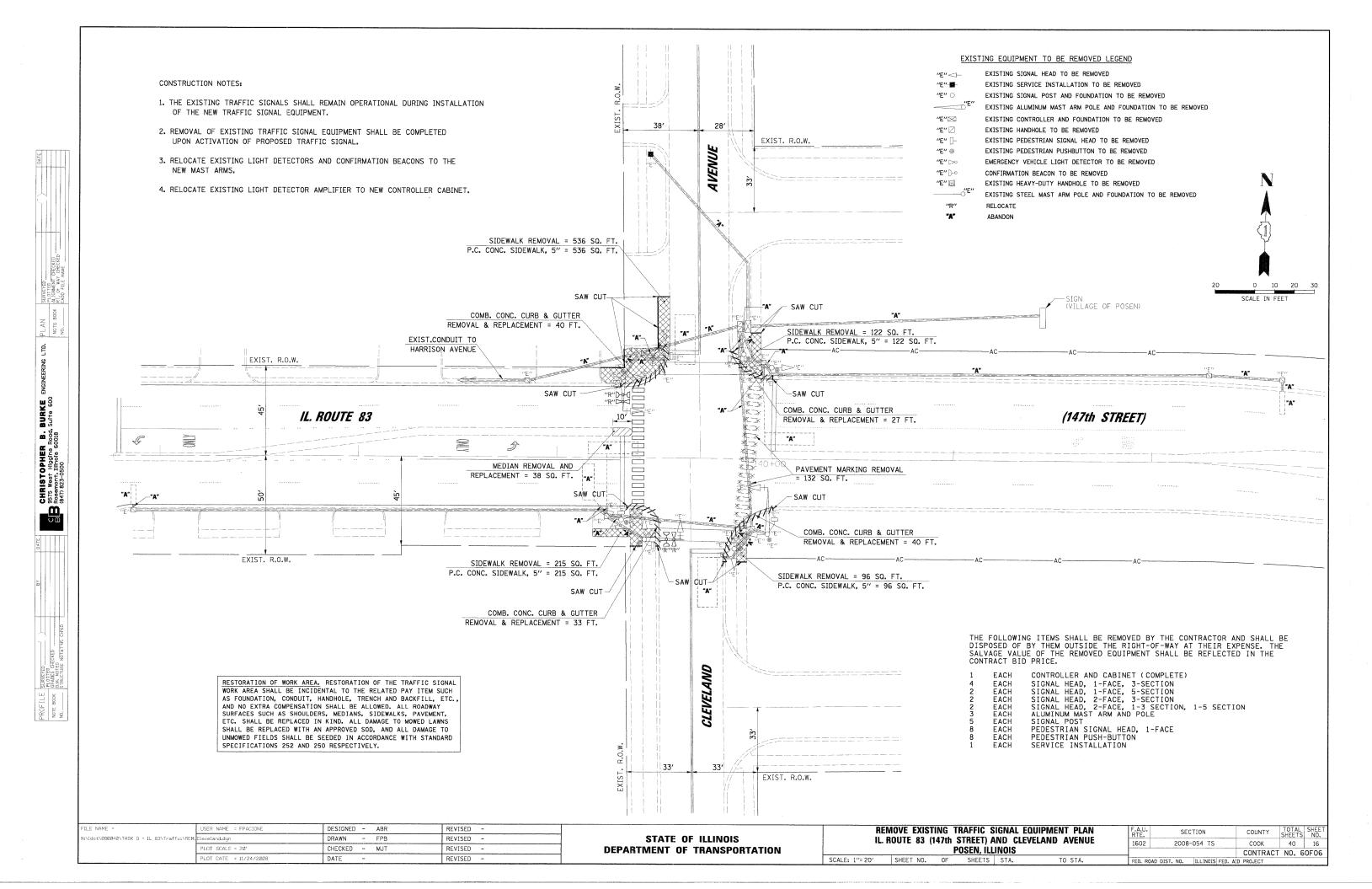


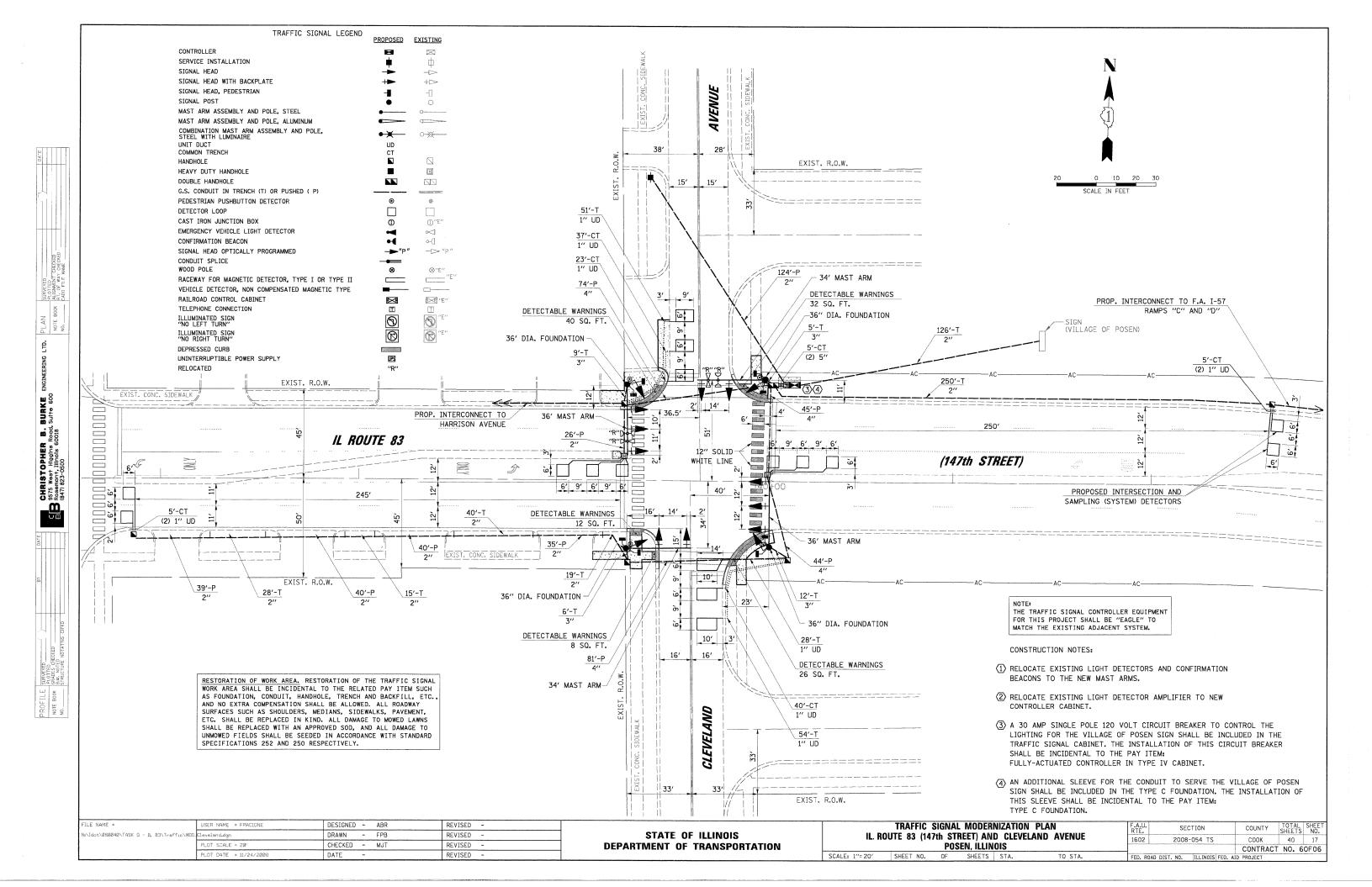


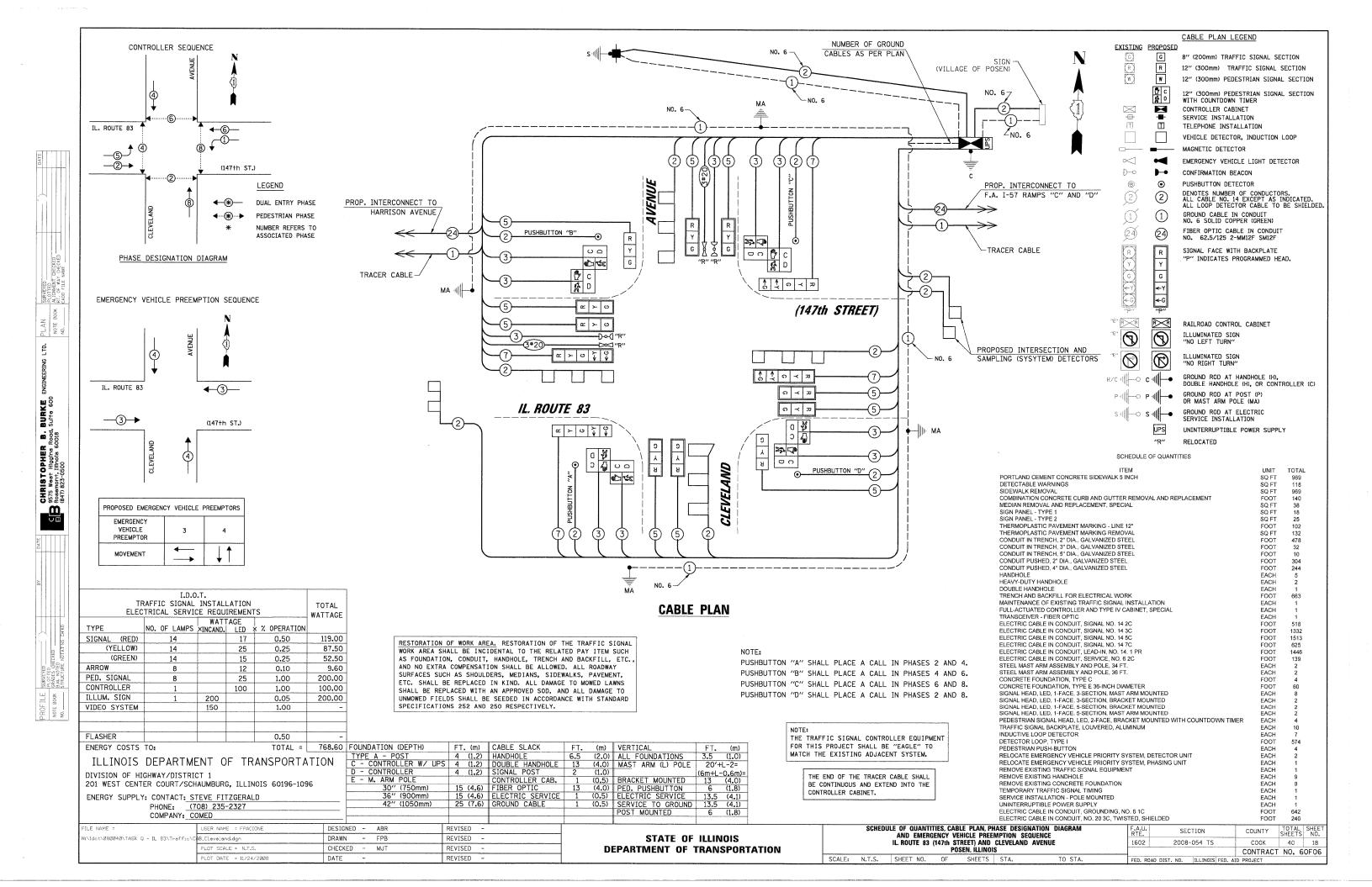


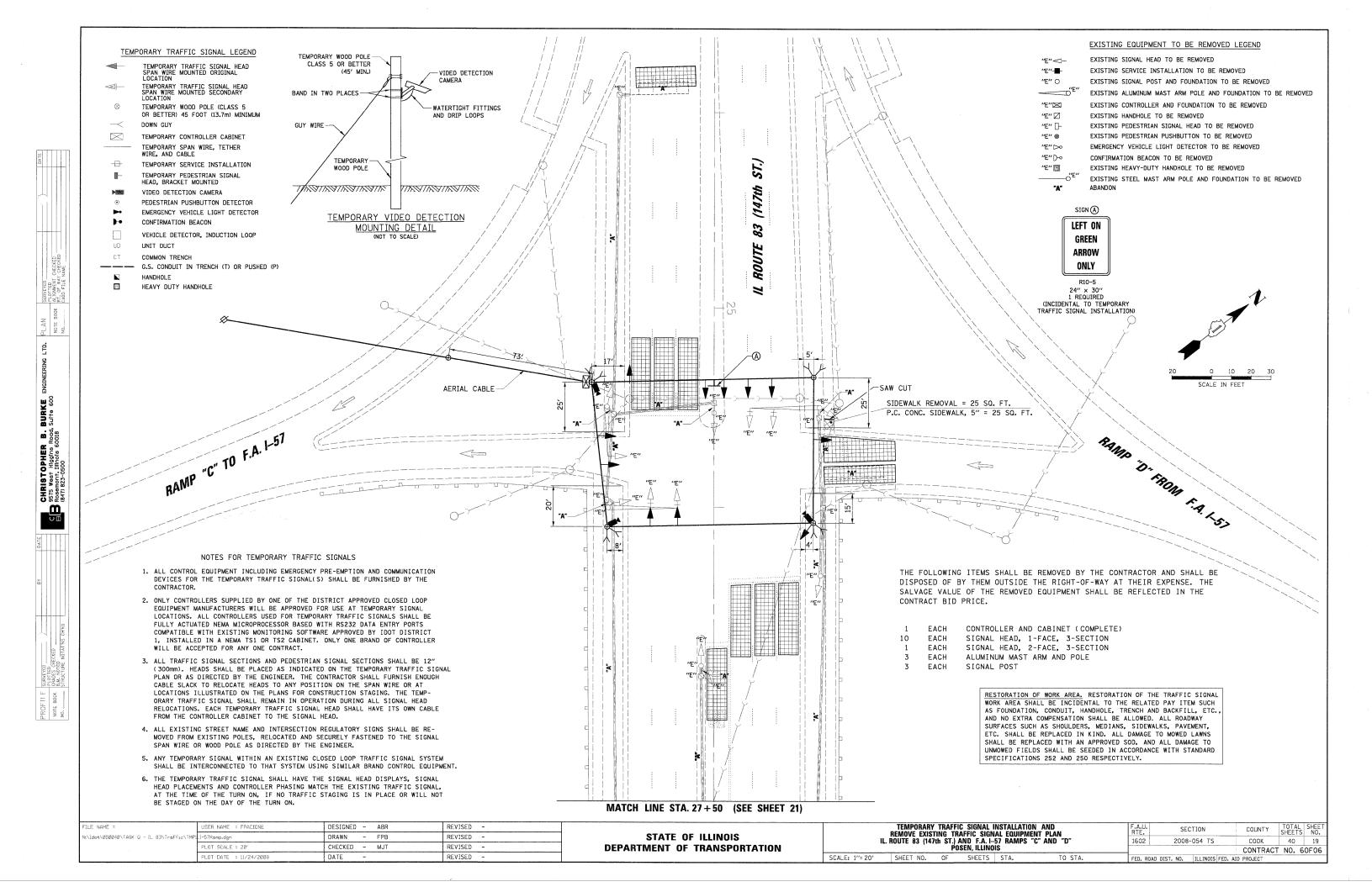


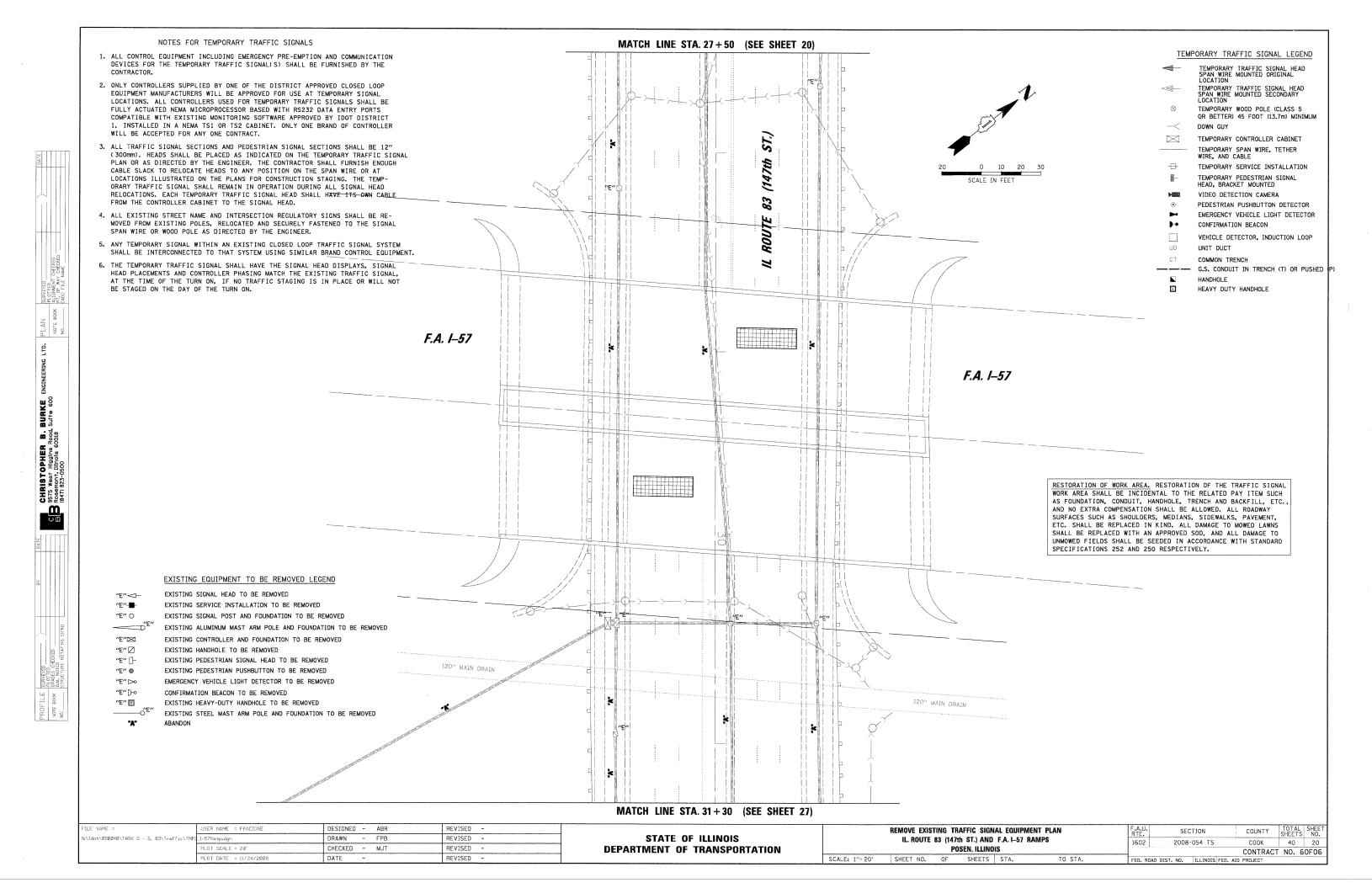


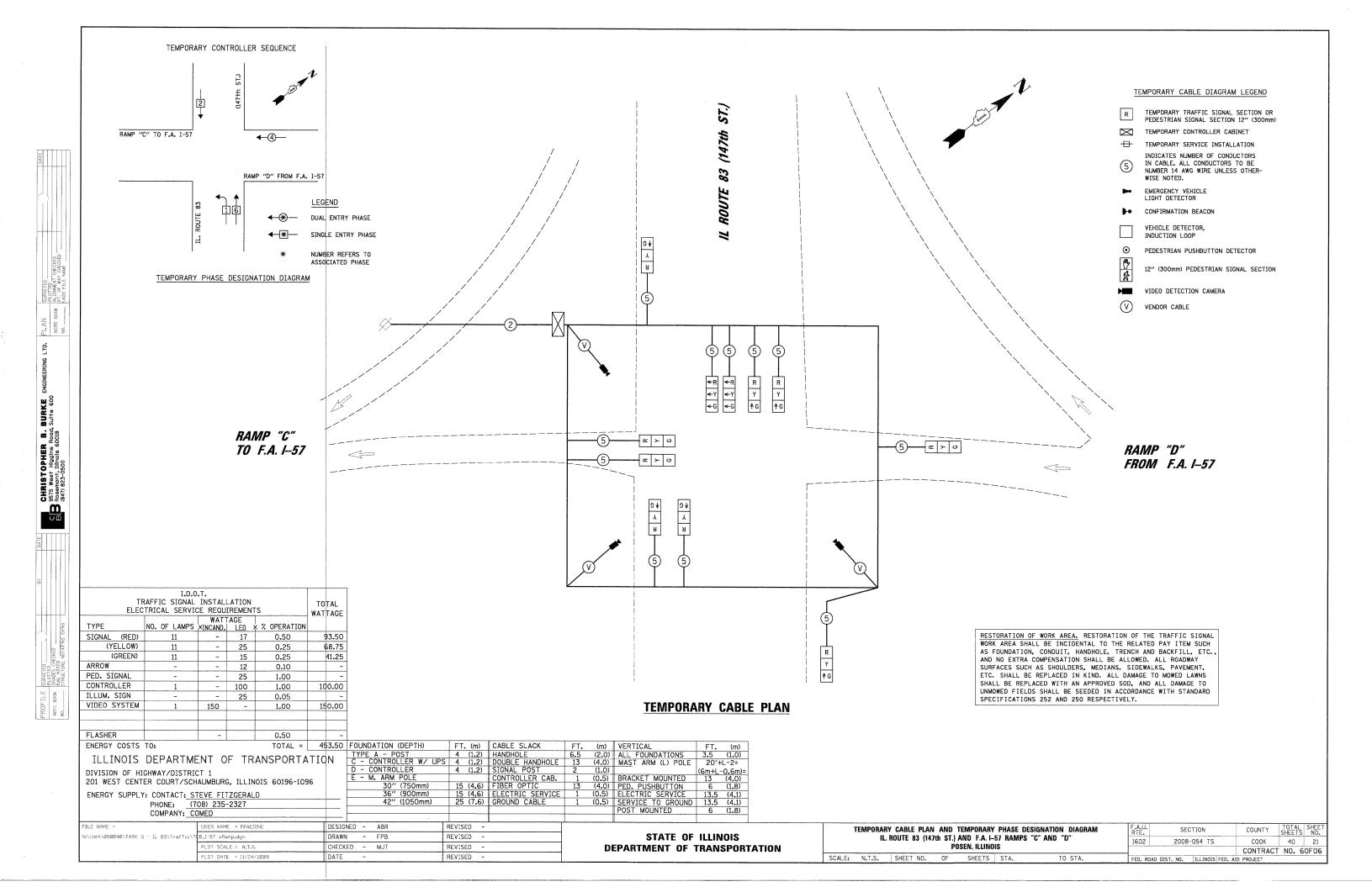


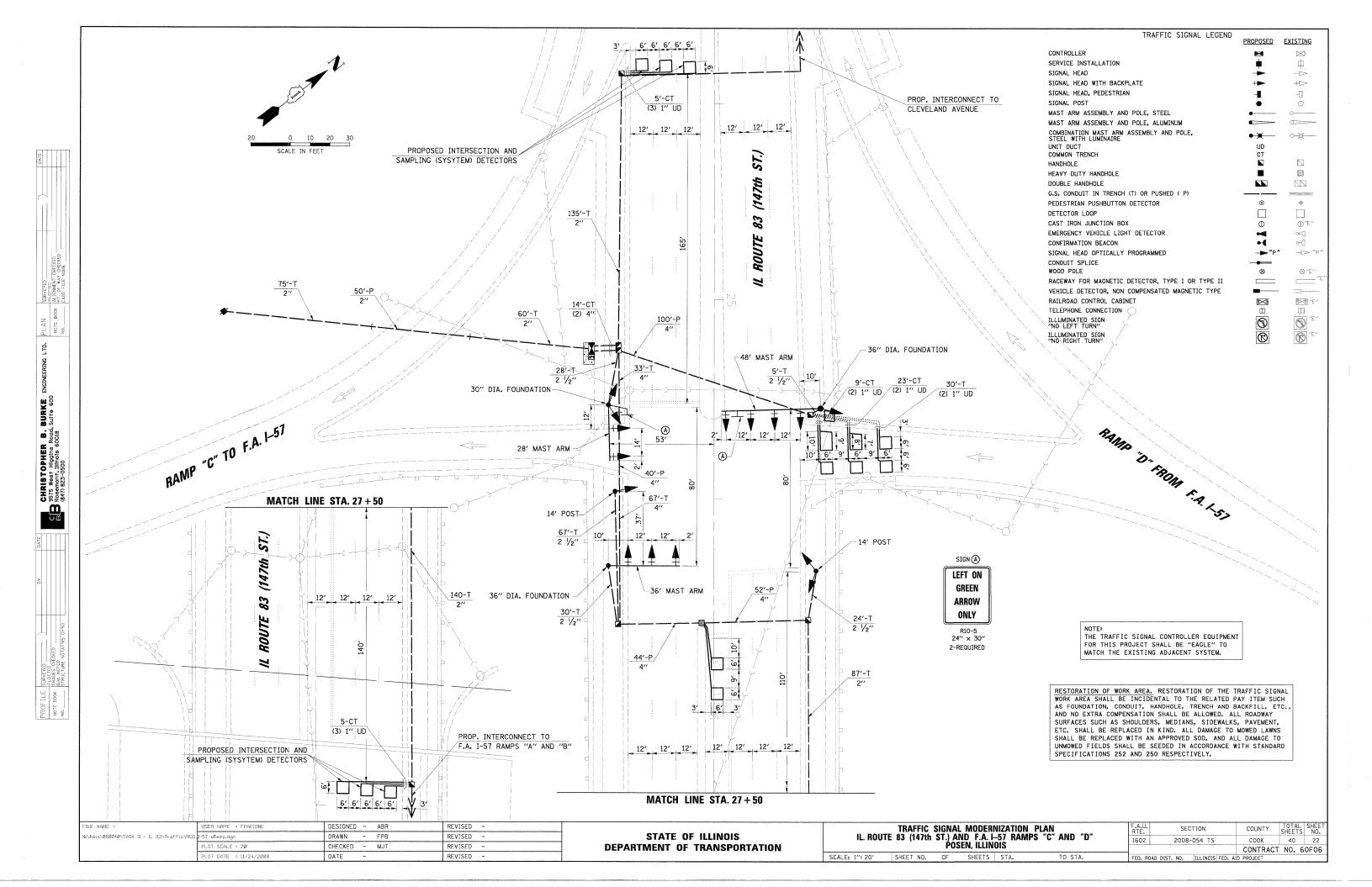


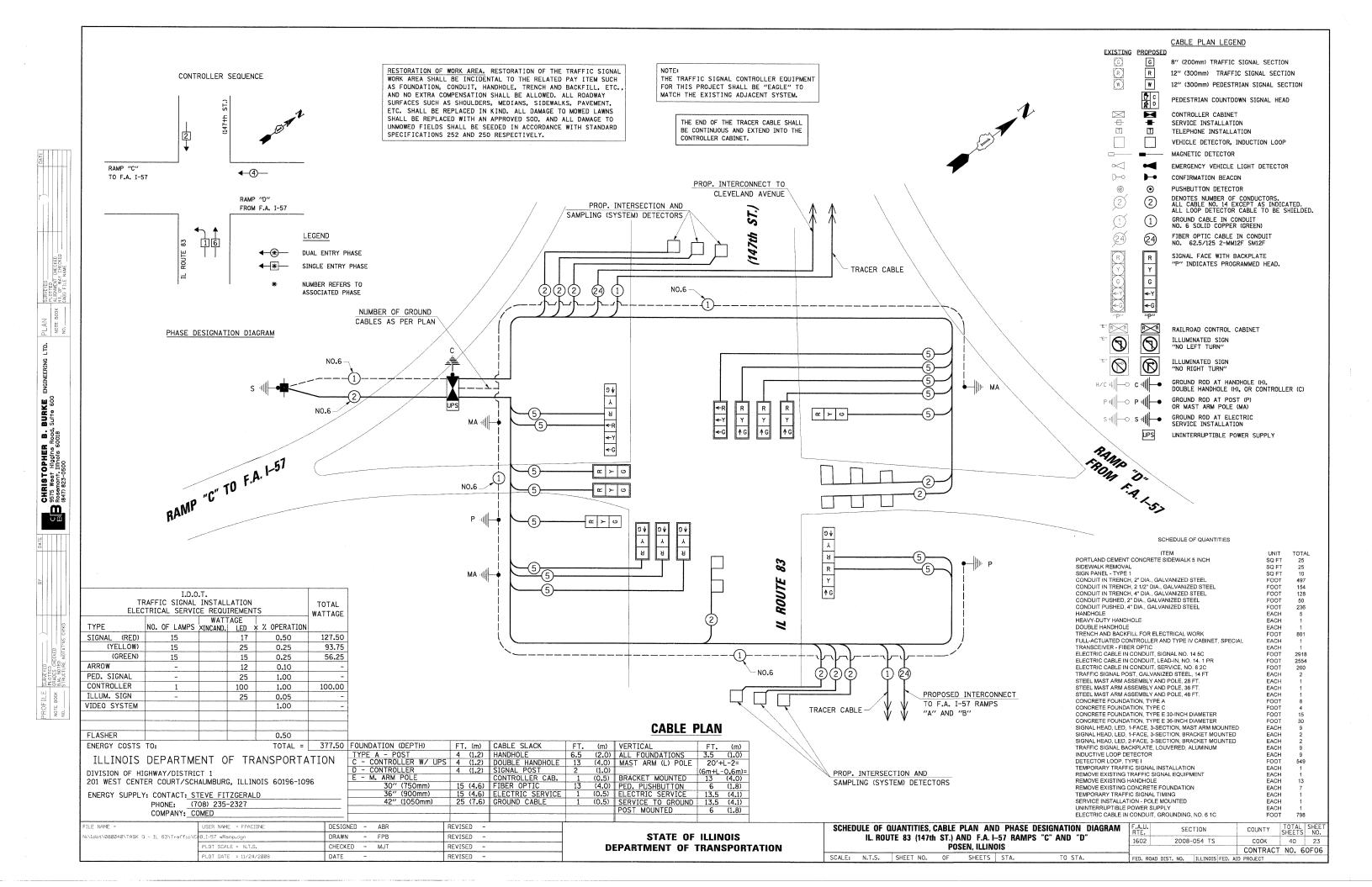


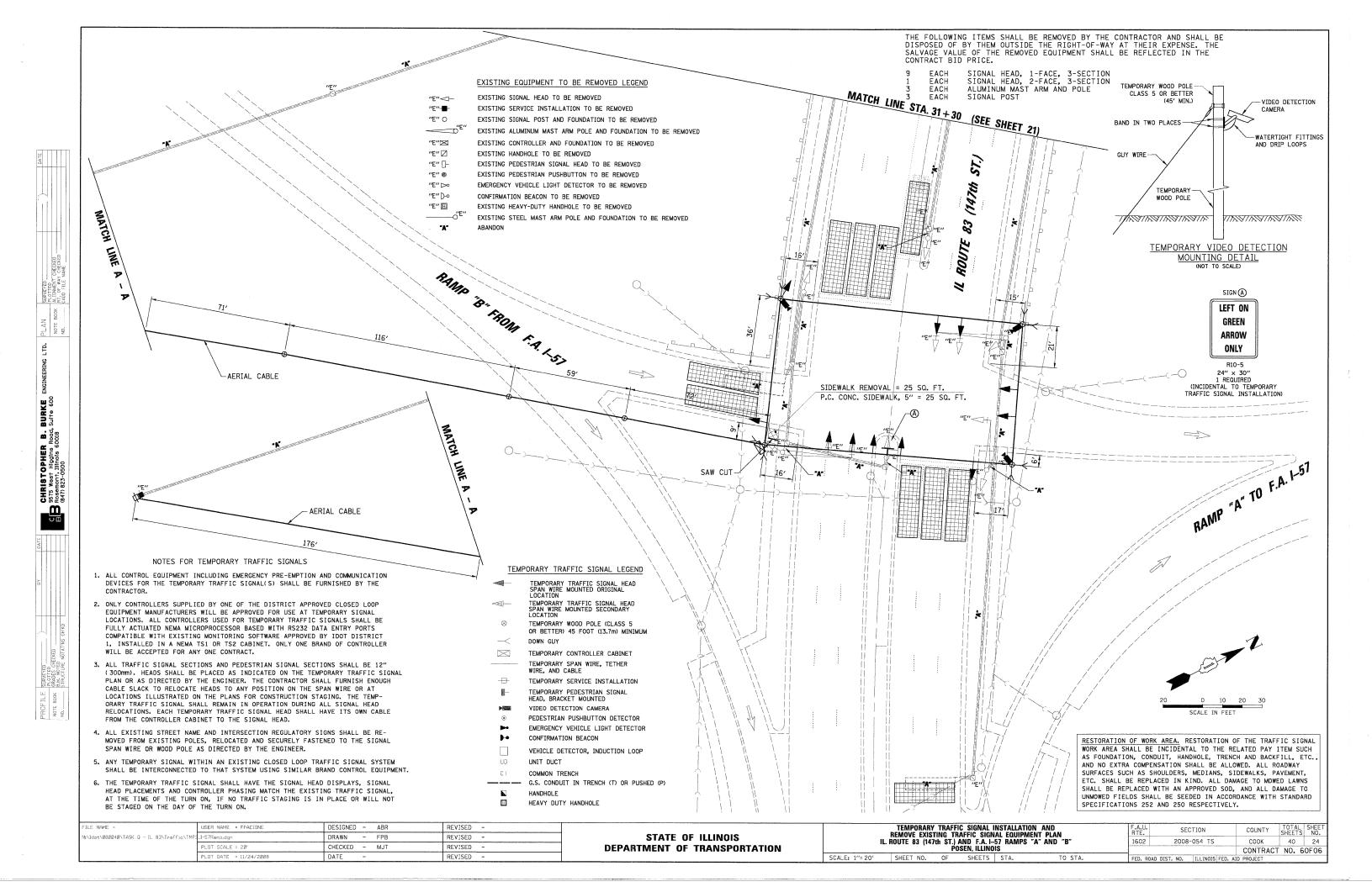


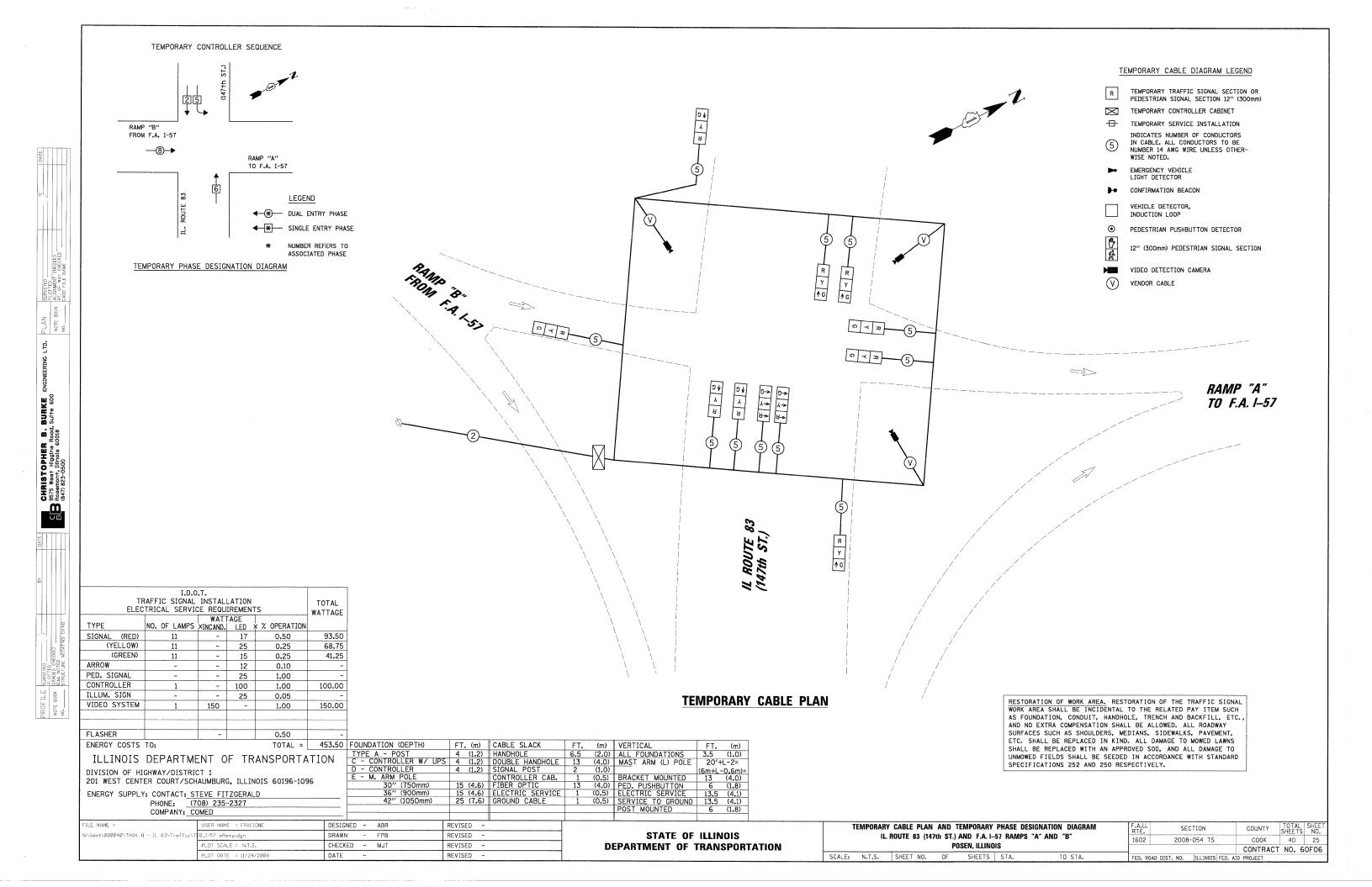


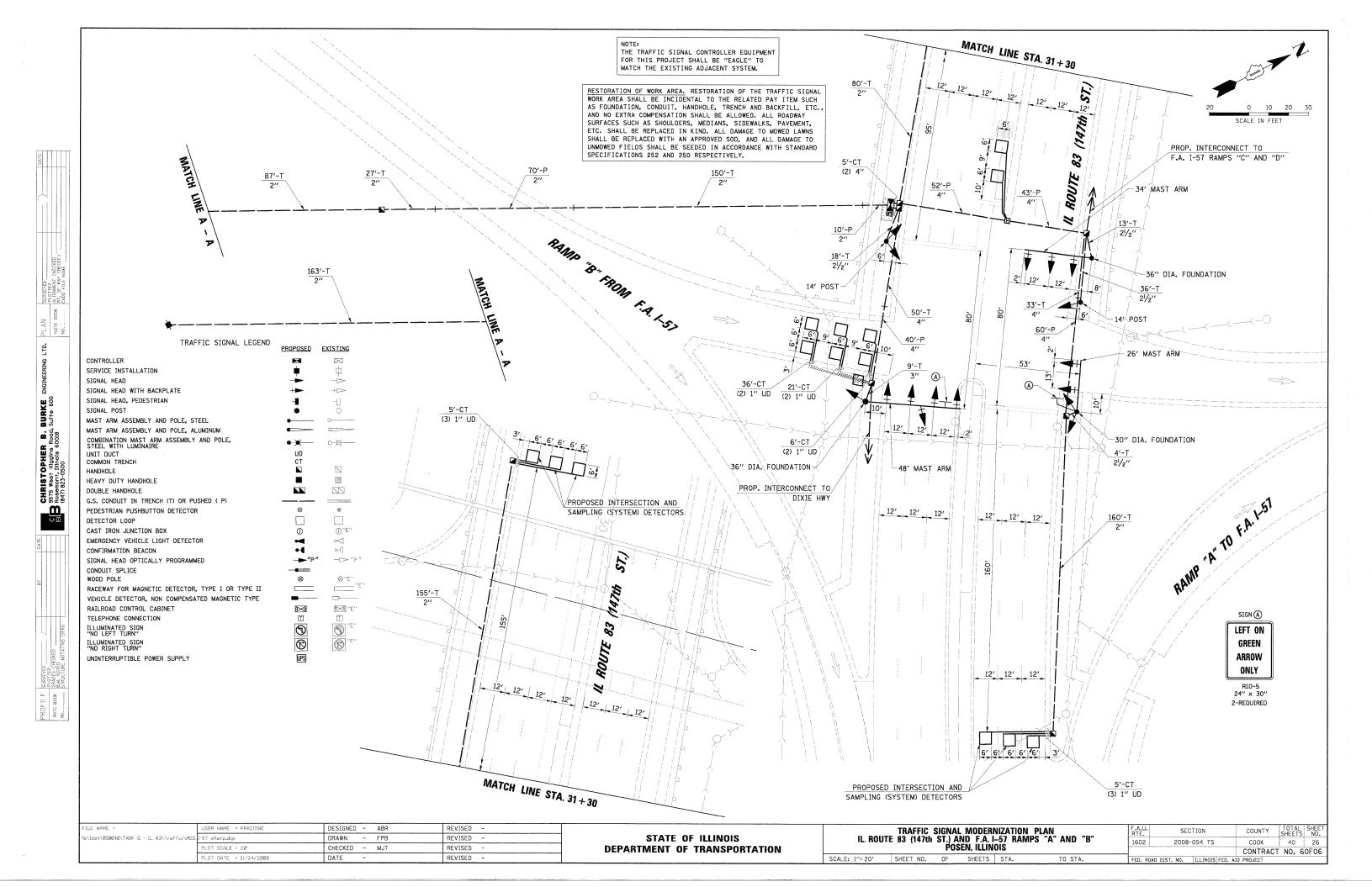


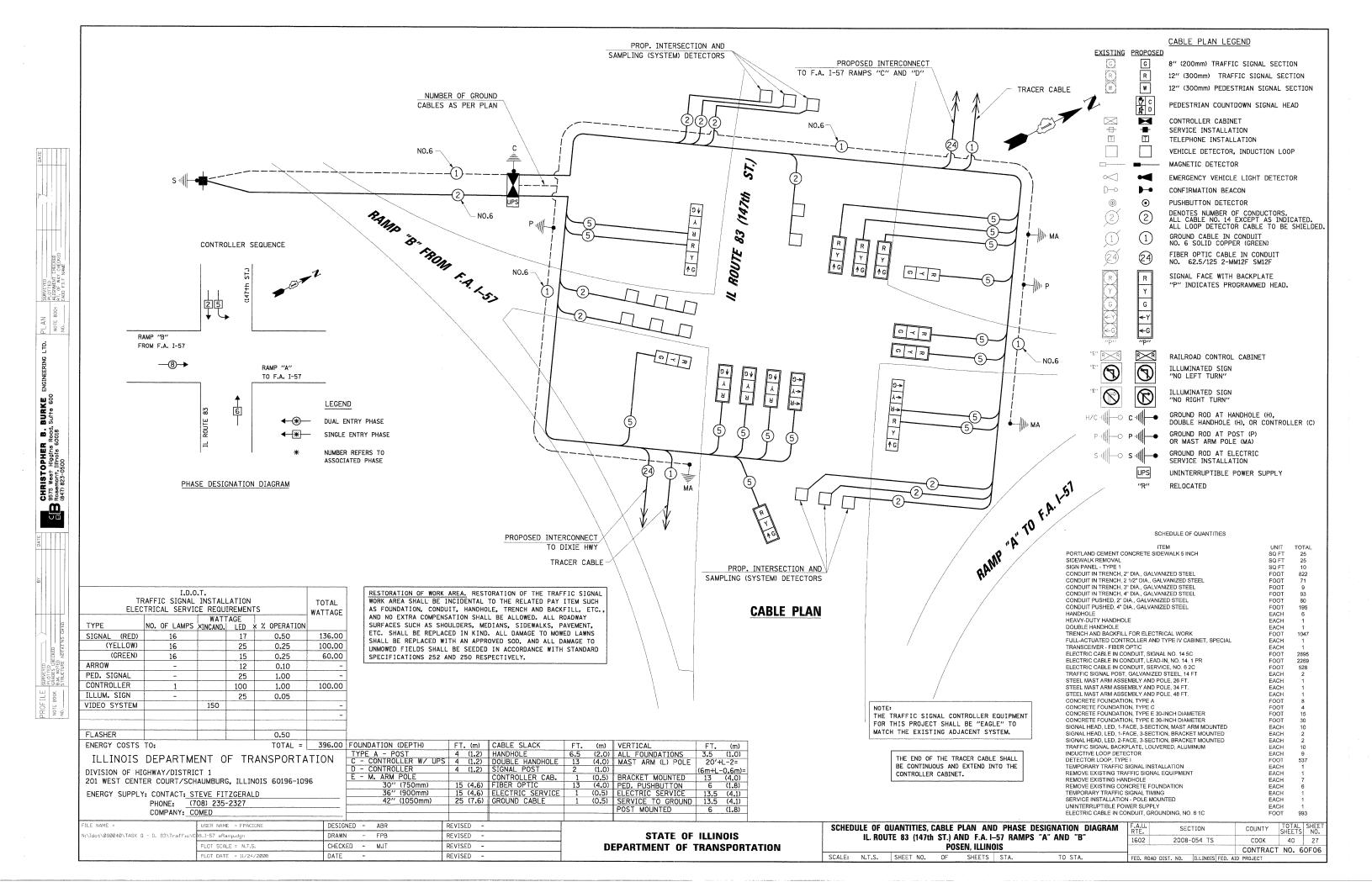


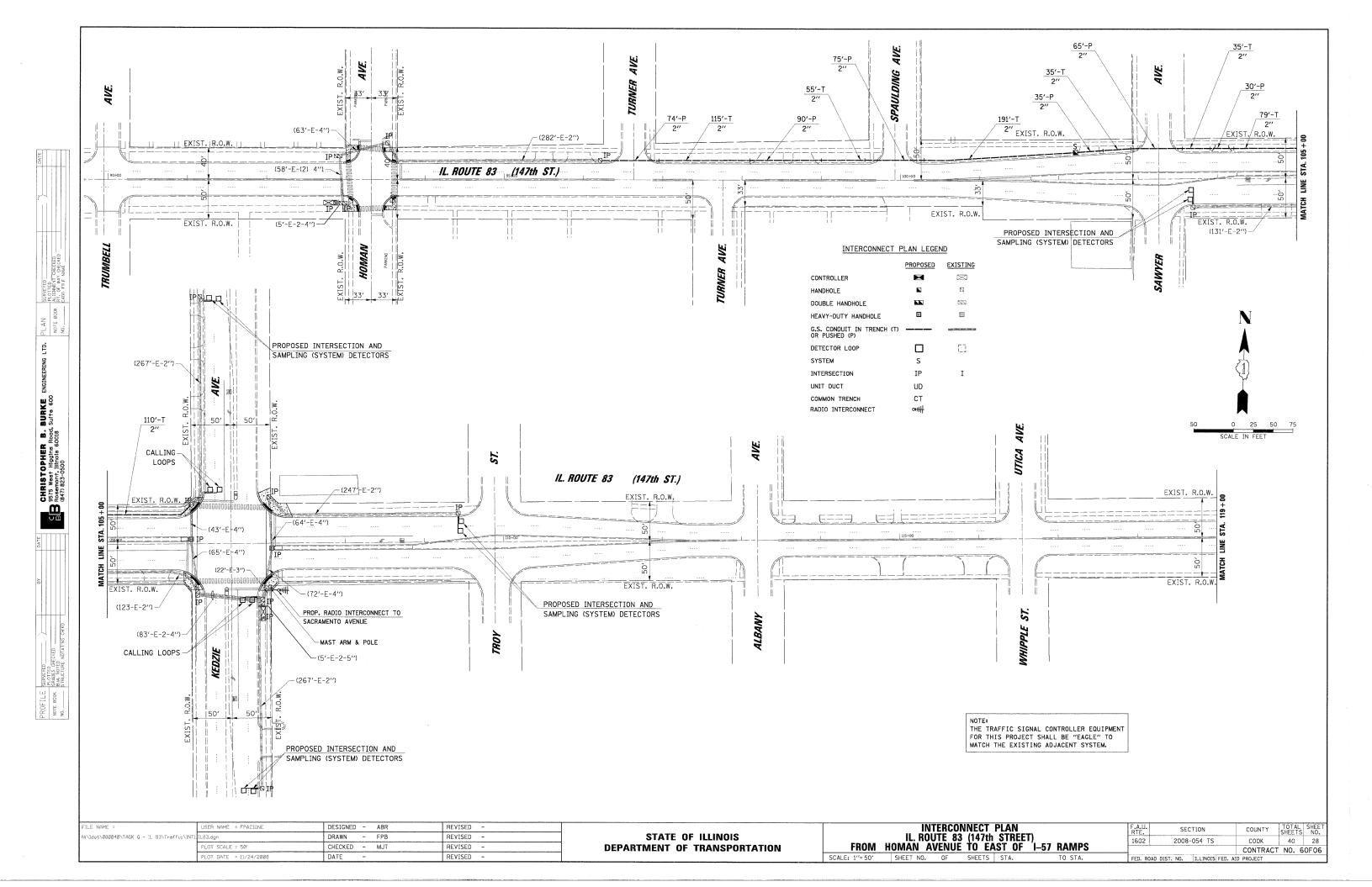


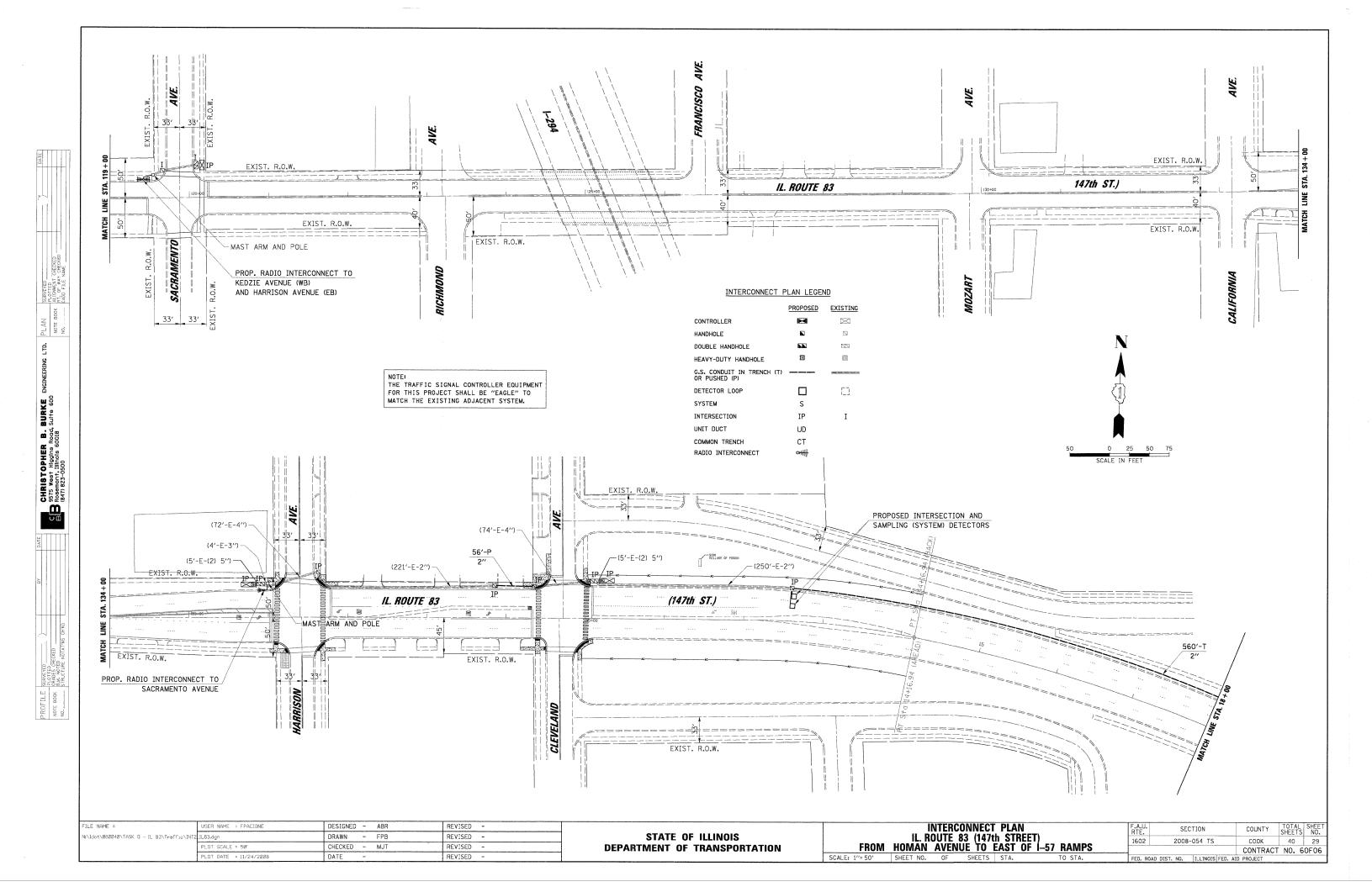


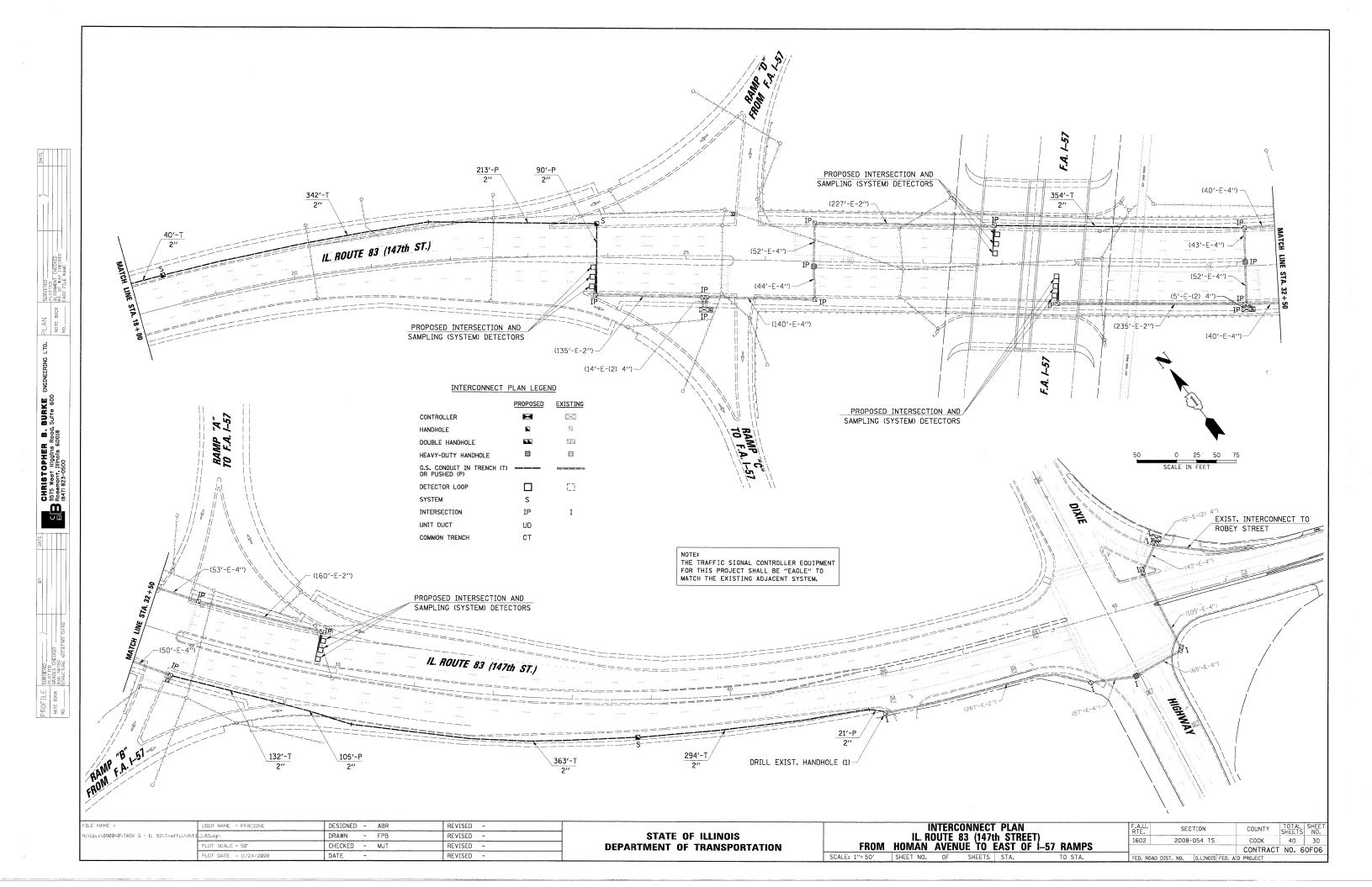


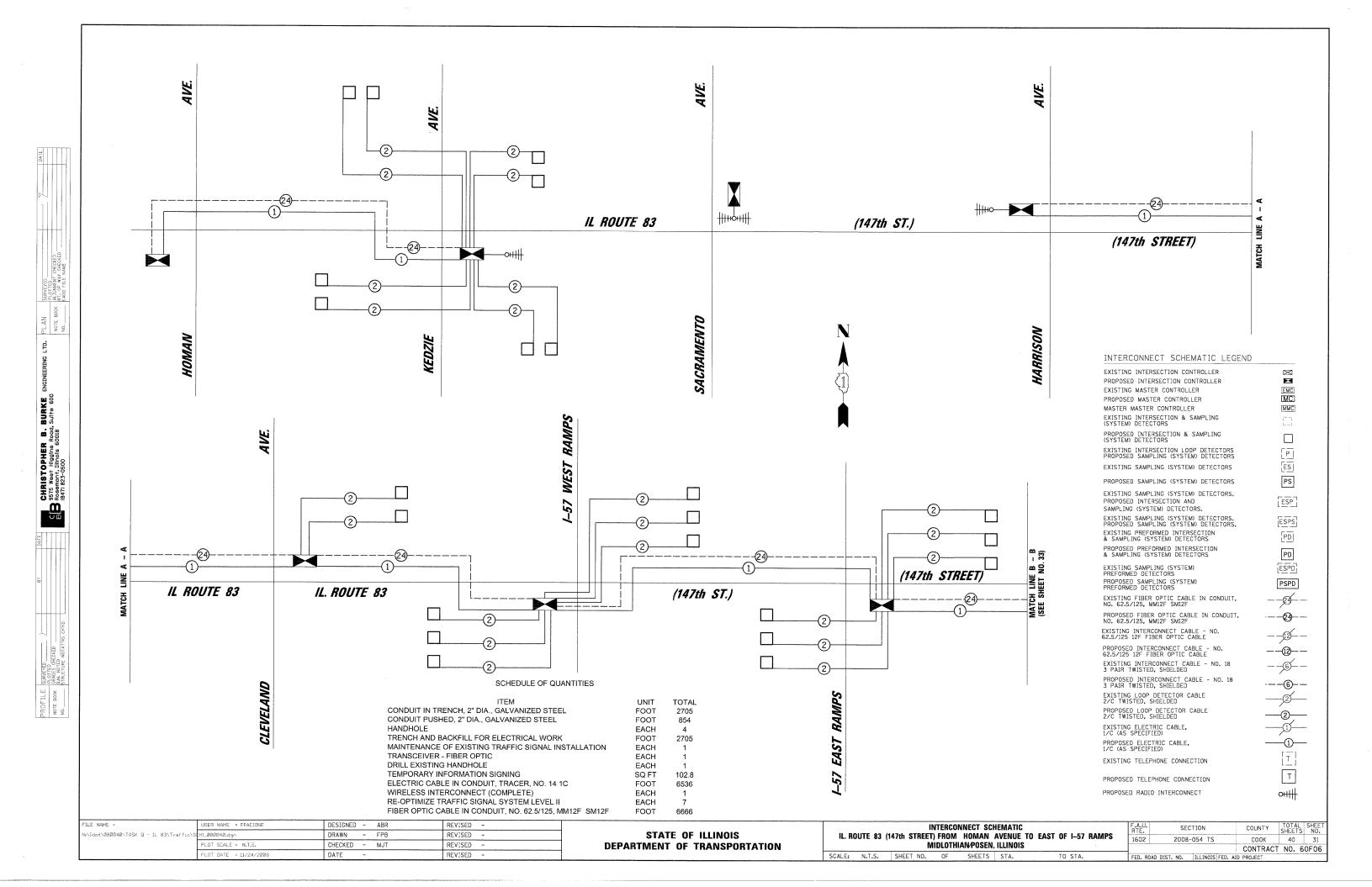


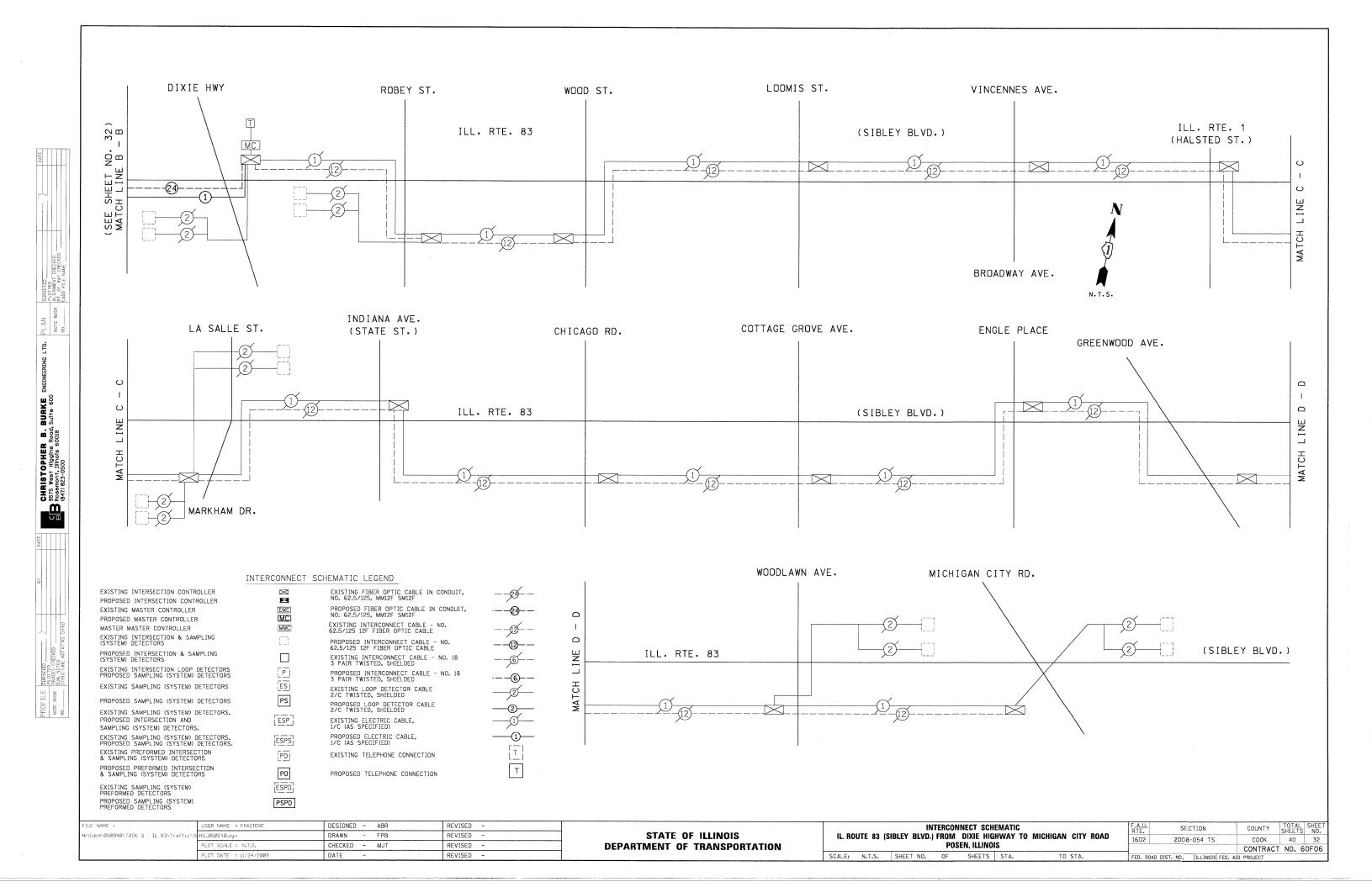


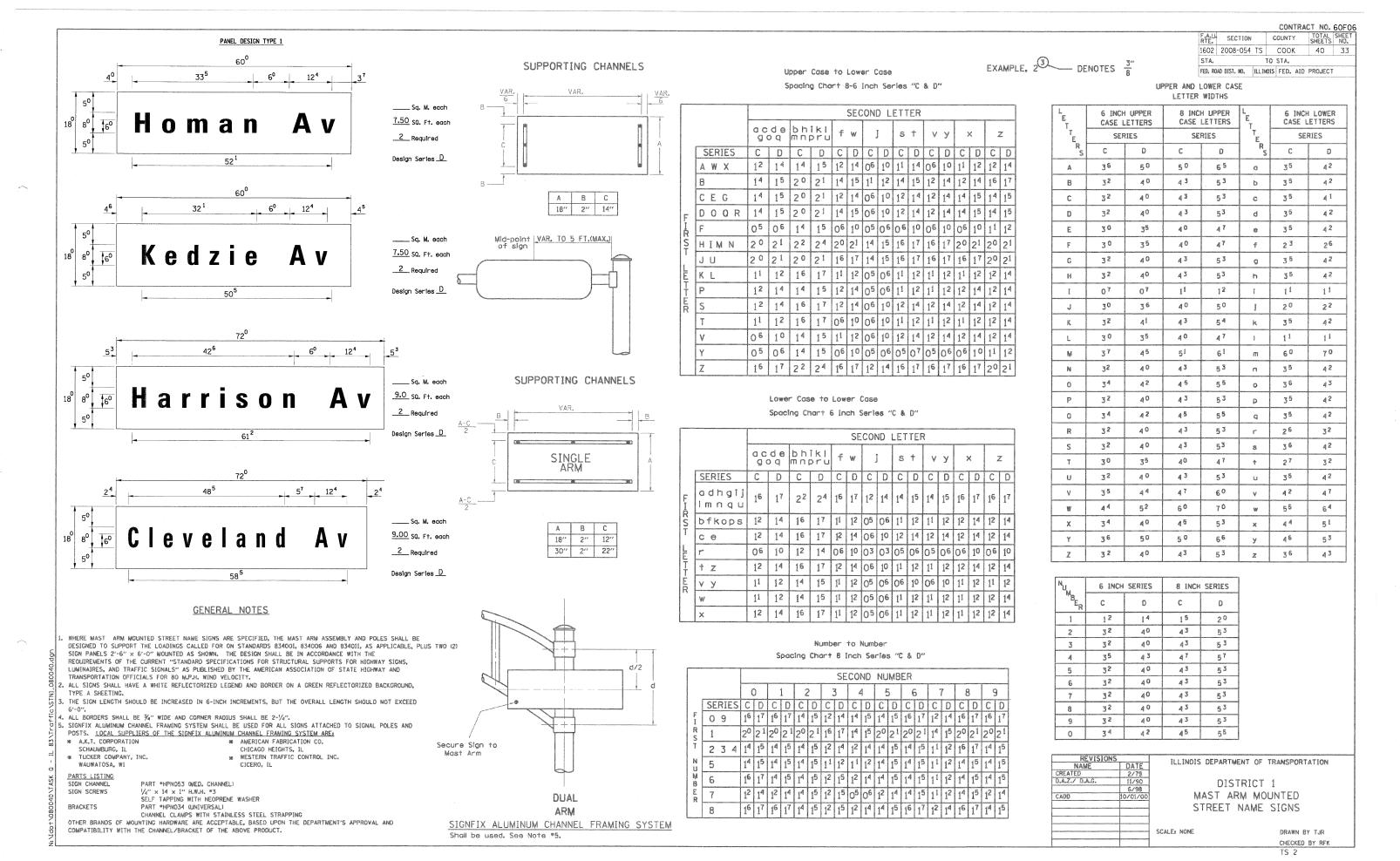


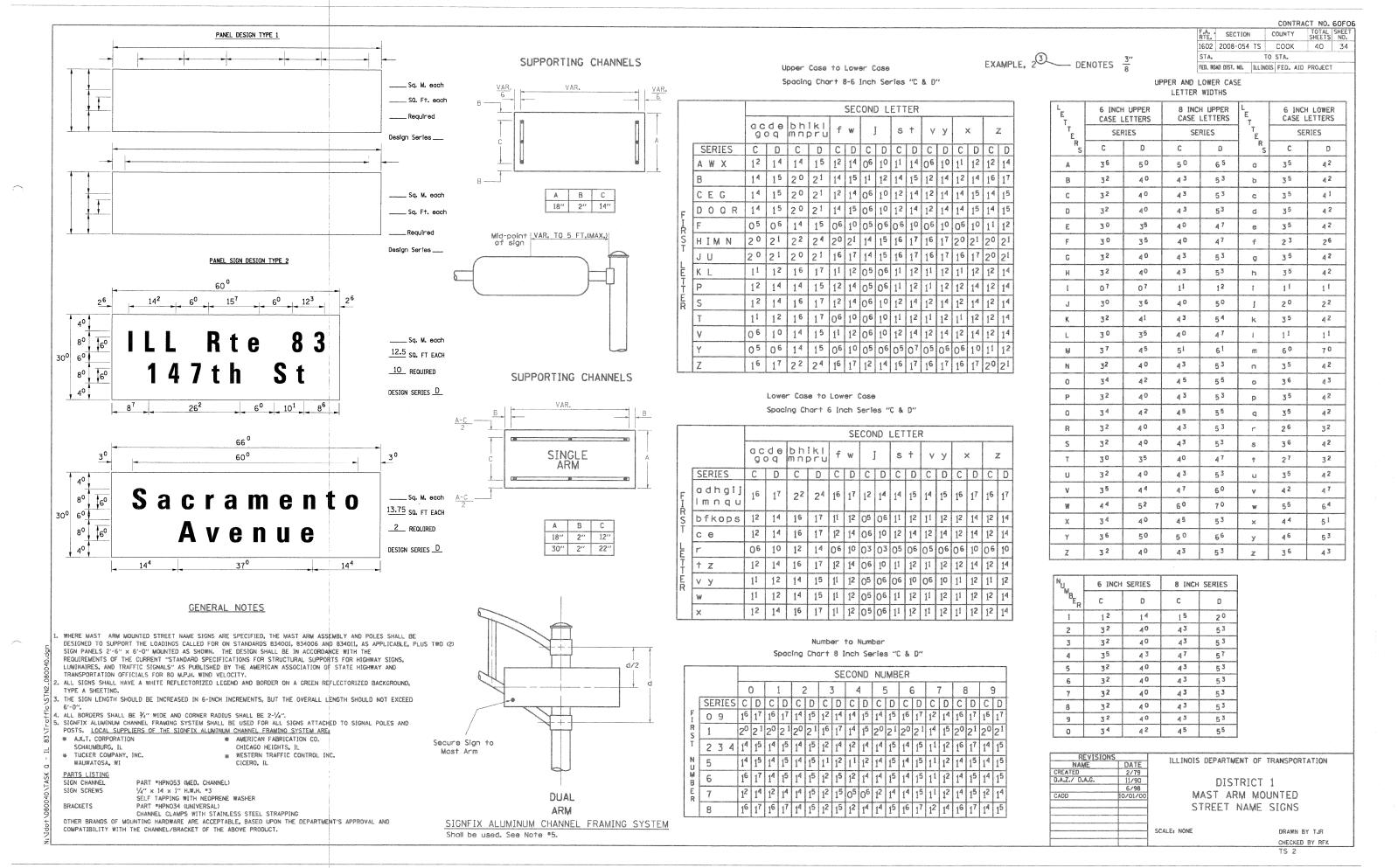






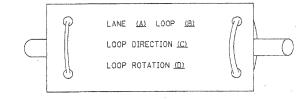






- EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE UNIT DUCT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). UNIT DUCT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.
- THE NUMBER OF LOOP TURNS SHALL BE AS RECOMMENDED BY THE AMPLIFIER MANUFACTURER.
  ALL ADJACENT SIDES OF THE LOOPS SHALL BE INSTALLED IN SUCH A WAY THAT THE CURRENT
  FLOW IS IN THE SAME DIRECTION TO REINFORCE ITS MAGNETIC FIELDS FOR SMALL VEHICLE
  DETECTION.
- 3. EACH LOOP LEAD-IN SHALL BE IDENTIFIED AND PERMANENTLY TAGGED IN THE HANDHOLE. EACH LEAD-IN CABLE TAG SHALL INDICATE THE LOCATION OF THE LOOP, LOOP ROTATION (CLOCKWISE/COUNTERCLOCKWISE), LOOP LEAD-IN DIRECTION (IN OR OUT), LOOP CABLE NUMBER AND LOCATION IN CABINET, AND NUMBER OF TURNS IN THE DETECTOR LOOPS IN WATER PROOF INK AS INDICATED ON THE DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAIL. THE CONTRACTOR SHALL MARK LOOP LOCATIONS ON RECORD DRAWINGS AND PRESENT TO THE ENGINEER AFTER FINAL INSPECTION. LOOPS SHALL BE MARKED BY LANE AND LOOP NUMBER. SEE DETAIL BELOW.
- 4. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.
- 5. IN ASPHALT PAVEMENT, LOOPS SHOULD BE PLACED IN THE BINDER AND DIVEHOLES MARKED AT THE CURB WITH A SAW-CUT. THE SAW-CUT SHALL BE CUT IN ACCORDANCE WITH LOCAL AND E.P.A. DUST CONTROL REQUIREMENTS. DETECTOR LOOP(S) SHALL NOT BE INSTALLED IN WET CONDITIONS AND THE SAW-CUTS MUST BE FREE OF DEBRIS AND RESIDUE SUCH AS DUST AND WATER WHICH IS TO BE ACHIEVED BY THE USE OF COMPRESSED AIR, WIRE BRUSHING AND HEAT DRYING ACCORDING TO SEALANT MANUFACTURER REQUIREMENTS. THE DETECTOR WIRE SHALL BE HELD IN PLACE BY THE USE OF FORM WEDGES. WEDGES SHALL BE SPACED NO MORE THAN 18" (450 mm) APART.
- 6. LOOP SPLICES SHALL BE SOLDERED USING A SOLDERING IRON. BLOW TORCHES OR OTHER DEVICES WHICH OXIDIZE COPPER CABLE SHALL NOT BE ALLOWED FOR SOLDERING OPERATIONS. SEE DETAIL BELOW RIGHT.
- 7. PREFORMED DETECTOR LOOPS SHALL BE USED, AS SHOWN ON THE PLANS, WHERE NEW CONCRETE PAVEMENT IS PROPOSED. THE INSTALLATION OF PREFORMED LOOPS SHALL BE IN ACCORDANCE WITH THE DISTRICT 1 SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.

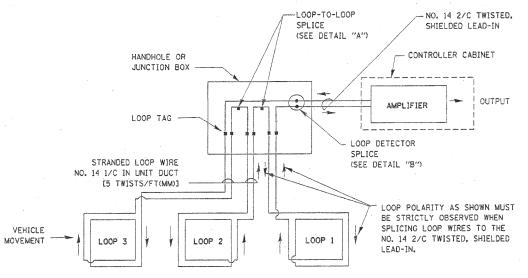
#### LOOP LEAD-IN CABLE TAG



- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP \*1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

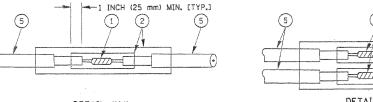
CONTRACT NO. 60F06

F.A.U.	SEC	TION		С	OUNT	4	SHEETS	SHEET NO.
1602	2008	-054	TS		COOL	<	40	35
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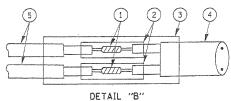


#### DETECTOR LOOP WIRING SCHEMATIC

- . LOOPS SHALL BE SPLICED IN SERIES.
- \* SAW-CUTS SHALL BE A MINIMUM WIDTH OF 5/16" (8 mm).
- SAW-CUT DEPTHS SHALL BE 3" (75 mm). IF IN CONCRETE, THE SAW-CUT DEPTH SHALL BE TO THE TOP OF THE REINFORCEMENT.
- \* LOOP CORNERS SHALL BE DRILLED WITH A 2" (50 mm) DIAMETER CORE.



DETAIL "A" LOOP-TO-LOOP SPLICE



LOOP-TO-CONTROLLER SPLICE

#### LOOP DETECTOR SPLICE

- (1) WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH.
- (2) WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.
- (3) WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGHT 6" (150 mm), UNDERWATER GRADE.
- (4) NO. 14 2/C TWISTED, SHIELDED CABLE.
- (5) LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.

			A 4 1310 A	real of the state	
REVISIONS NAME	DATE	ILLINOIS DEPARTM	ENT OF T	TRANSPORTATION	
		DIST	RICT C	NE	
		STANDARD	TRAFFI	C SIGNAL	
		DESIGN DETAILS			
		SCALE: VERT. NONE		DRAWN BY: RWP DESIGNED BY: DAD CHECKED BY: DAZ	
		DATE 1-01-02		SHEET 1 OF 4	

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#### NOTES:

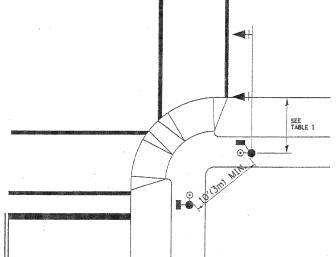
1. AT ACCESSIBLE PEDESTRIAN SIGNAL LOCATIONS WITH PEDESTRIAN ACTUATION. EACH PUSHBUTTON SHALL ACTIVATE BOTH THE WALK INTERVAL AND THE ACCESSIBLE PEDESTRIAN SIGNALS.

AT ACCESSIBLE PEDESTRIAN SIGNAL LOCATIONS, PUSHBUTTONS SHOULD CLEARLY INDICATE WHICH CROSSWALK SIGNAL IS ACTUATED BY EACH PUSHBUTTON. PUSHBUTTONS AND TACTILE ARROWS SHOULD HAVE HIGH VISUAL CONTRAST (SEE THE DEPARTMENT OF JUSTICE'S AMERICANS WITH DISABILITIES ACT STANDARDS FOR ACCESSIBLE DESIGN, 1991). TACTILE ARROWS SHOULD POINT IN THE SAME DIRECTION AS THE ASSOCIATED CROSSWALK. AT CORNERS OF SIGNALIZED LOCATIONS WITH ACCESSIBLE PEDESTRIAN SIGNALS WHERE PEDESTRIAN PUSHBUTTONS ARE PROVIDED, THE PUSHBUTTONS SHOULD BE SEPARATED BY THE DISTANCE OF AT LEAST 10 FT (3m). THIS ENABLES PEDESTRIANS WHO HAVE VISUAL DISABILITIES TO DISTINGUISH AND LOCATE THE APPROPRIATE PUSHBUTTON.

PUSHBUTTONS FOR ACCESSIBLE PEDESTRIAN SIGNALS SHOULD BE LOCATED AS FOLLOWS:

- A: ADJACENT TO A LEVEL ALL-WEATHER SURFACE TO PROVIDE ACCESS FROM A WHEELCHAIR, AND WHERE THERE IS AN ALL WEATHER SURFACE, WHEELCHAIR ACCESSIBLE ROUTE TO THE RAMP.
- B: WITHIN 5 FT (1.5m) OF THE CROSSWALK EXTENDED.
- C: WITHIN 10 FT (3m) OF THE EDGE OF CURB, SHOULDER, OR PAVEMENT.
- D: PARALLEL TO THE CROSSWALK TO BE USED (SEE MUTCD FIGURE 4E-2).
- E: NORMAL PEDESTRIAN PUSHBUTTON MOUNTING HEIGHT SHOULD BE 3.5 FT (1.05m) ABOVE ADJACENT SIDEWALK
- 2. PEDESTRIAN SIGNAL FACES SHALL BE MOUNTED WITH THE BOTTOM OF THE HOUSING NOT LESS THAN 8 FT (2.4m) NOR MORE THAN 10 FT (3.0m) ABOVE THE SIDEWALK LEVEL AND SO THERE IS A PEDESTRIAN INDICATION IN THE LINE OF PEDESTRIANS' VISION WHICH PERTAINS TO THE CROSSWALK BEING USED.
- 3. THE BOTTOM OF THE HOUSING OF A VEHICLE SIGNAL FACE, NOT MOUNTED OVER A ROADWAY, SHALL BE AT LEAST 10 FT (3.0m) BUT NOT MORE THAN 15 FT (4.5m) ABOVE THE SIDEWALK OR, ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE HIGHWAY IF NO SIDEWALKS EXIST.
- 4. THE BOTTOM OF THE HOUSING OF A VEHICLE SIGNAL FACE, MOUNTED OVER A ROADWAY, SHALL BE ACCORDING TO CURRENT STATE STANDARDS 877001 AND 877006. (16 FT (5m) MIN., 18 FT (5.5m) MAX., FROM HIGHEST POINT OF PAVEMENT)

PEDESTRIAN SIGNAL PUSHBUTTON



RECOMMENDED PUSHBUTTON LOCATIONS FOR ACCESSIBLE PEDESTRIAN SIGNALS SHALL BE IN ACCORDANCE WITH THE CURRENT MUTCD (SEE NOTE 1). TO MEET MUTCD REQUIREMENTS, PEDESTRIAN SIGNAL PUSHBUTTONS MAY HAVE TO BE MOUNTED ON A SEPARATE POST.

#### PEDESTRIAN SIGNAL POST

TRAFFIC SIGNAL MAST ARM AND POST

MAST ARM MOUNTED SIGNAL IN PROPOSED

& FUTURE SIDEWALK AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNAL AND

SEE TABLE I CURB, SHOULDER, OR EDGE OF PAVEMENT (SEE PLANS)

SEE TABLE I

PUSHBUTTON DETECTOR

2'(600 mm)

TYP.

5' (1.5m) MAX.\_

PEDESTRIAN SIGNAL HEAD AND PEDESTRIAN PUSHBUTTON DETECTOR LOCATION

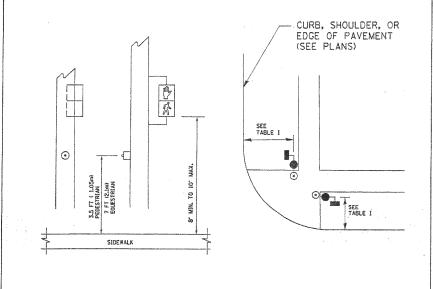


TABLE I

TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MIN. DIST. FROM BACK OF CURB)	SHOULDER/NON-CURBED AREA (MIN. DIST. FROM EDGE OF PAVEMENT)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2FT(0.6m), MINIMUM 10FT(3.0m)
TRAFFIC SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2FT(0.6m), MINIMUM 10FT(3.0m)
PEDESTRIAN SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2FT(0.6m), MINIMUM 10FT(3.0m)
PEDESTRIAN PUSHBUTTON	SEE NOTE 1	SEE NOTE 1

REVISIONS
NAME
DATE

DISTRICT 1

STANDARD TRAFFIC SIGNAL
DESIGN DETAILS

SCALE: VERT. NONE DESIGNED BY: DAD
HORIZ. NONE DESIGNED BY: DAD
DATE 1-01-02 SHEET 2 OF 4

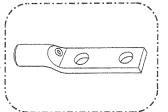
TSO

(847) 705-4139.

GROUNDING SYSTEM

#### TOTAL SHEET SHEETS NO. SECTION COUNTY 1602 2008-054 TS COOK 40 37 STA. TO STA. FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

- 1. THE GROUNDING SYSTEM SHALL CONSIST OF AN INSULATED CONDUCTOR TYPE XLP, NO. 6 A.W.G., STRANDED COPPER TO BE INSTALLED IN RACEWAYS. THE GROUNDING CABLE SHALL BE INSTALLED IN A CONTINUOUS MANNER AS SHOWN ON THE CABLE PLAN PROVIDED. ALL GROUNDING CONDUCTORS SHALL BE BONDED TO METAL ENCLOSURE (HANDHOLE, POST, MAST ARM, CONTROLLER, ETC.). GROUND ROD SHALL BE 3/4" DIA, x 10'-0" (20mm x 3.0m) LONG, COPPER CLAD, ONE GROUND ROD SHALL BE INSTALLED AT ALL POST FOUNDATIONS, POLE FOUNDATIONS, CONTROLLER CABINET FOUNDATION AND ELECTRICAL SERVICE INSTALLATION AS INDICATED ON THE CABLE PLAN. IF THERE ARE ANY SPECIAL CONDITIONS SUCH AS SUB-SURFACE CONDITIONS OR INSTALLATION PROBLEMS, THE RESIDENT ENGINEER SHALL BE NOTIFIED OR CONTACT THE BUREAU OF TRAFFIC. ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT ONE AT
- 2. THE NEUTRAL CONDUCTOR AND THE GROUND CONDUCTOR SHALL BE CONNECTED IN THE SERVICE INSTALLATION. AT NO OTHER POINT IN THE TRAFFIC SIGNAL SYSTEM SHALL THE NEUTRAL AND GROUND CONDUCTORS BE CONNECTED.
- 3. ALL EQUIPMENT GROUNDING CONDUCTORS SHALL TERMINATE AT THE GROUND BUS IN THE CONTROLLER CABINET.
- 4. THE CONTRACTOR SHALL PROVIDE A GROUND CABLE WITH CONNECTORS BETWEEN THE HANDHOLE COVER AND HANDHOLE FRAME.



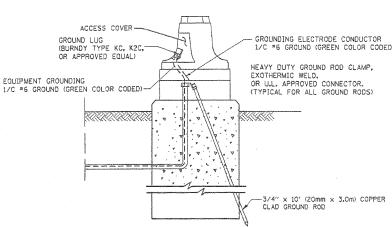
HEAVY-DUTY COMPRESSION TERMINAL (BURNDY TYPE YGHA OR APPROVED EQUAL)



3/4" (20mm) HEAVY-DUTY GROUND ROD CLAMP (BURNDY TYPE GRC OR APPROVED EUAL)

#### NOTES:

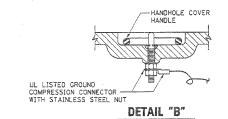
• ALL CLAMPS SHALL BE BRONZE OR COPPER, UL APPROVED. • GROUND CABLE SHALL BE LOOPED OVER HOOKS IN THE HANDHOLES 6.5' (2.0m) SLACK SHALL BE PROVIDED IN SINGLE HANDHOLES 13' (4.0m) OF SLACK SHALL BE PROVIDED IN DOUBLE HANDHOLES. 5' (1.4m) OF SLACK SHALL BE PROVIDED BETWEEN FRAME AND COVER.

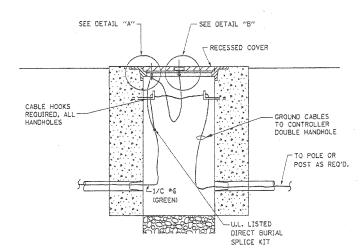


MAST ARM POLE / POST-GROUNDING DETAIL (NOT TO SCALE)

REVISIONS		THINOIS DEPARTMENT	OF TRANSPORTATION
NAME D	ATE	ILLINOIS DE ANTMENT	OF TRANSFORTATION
		DISTRI	ICT 1
		0.0111	.01
		STANDARD TRA	AFFIC SIGNAL
		DESIGN [	DETAILS
		SCALE: VERT. NONE	DRAWN BY: RWP DESIGNED BY: DAD
		DATE 1-01-02	CHECKED BY: DAZ SHEET 3 OF 4

- HANDHOLE COVER CAST CORNER FRAME WEB -UL LISTED GROUND -COMPRESSION CONNECTOR ANTI-COPROSION COMPOUND --SHALL BE APPLIED ON ALL BOLT/ CONNECTION ASSEMBLIES. DETAIL "A" -STAINLESS STEEL NUT AND 2 STAINLESS





### HANDHOLE COVER & FRAME - GROUNDING DETAIL

(NOT TO SCALE)

(2) 1/2"  $\times$  1 1/4" STAINLESS STEEL BOLT WITH SPLIT LOCK WASHER AND NYLON INSERT LOCKOUT WELDED TO  $\frac{1}{2}$ FRAME AND TO COVER, (TYPICAL) - EXISTING HANDHOLE GROUNDING CABLE

(NOT TO SCALE)

MOUNTING PLATE TOP & BOTTOM AS PER-

CABINET. SHEET ALUMINUM -

CONTINUOUS PIANO HINGE-

POLE MOUNTED SERVICE CABINET OUTSIDE

POWER INDICATOR LIGHT -INTERNALLY MOUNTED FOR-

GROUND MOUNTED SERVICE

DIMENSIONS L 6" x W 12" x H 14"

L (150mm) x W (300mm) x H (355mm)

FINISH GRADE-

(1)

TO GROUND ROD-

1/C #6 (GREEN)

ELECTRICAL SERVICE TO

TRAFFIC SIGNAL CONTROLLER -

3/4" (20mm) GALV. CONDUIT

(SEE ALL CABLE PLAN, FOR ALL CABLE SIZES)

ELECTRIC

UTILITY

ENCLOSURE

(ABOVE OR BELOW

2" (50mm)

GALY. CONDUIT

SERVICE INSTALLATION

**GROUND MOUNT** 

GROUND)

-PRESSURE

CONNECTOR, TYP.

10' (3.0m) MAX

SEE ELECTRICAL

PANEL DIAGRAM

CABINET BASE-

SERVICE

MANUFACTURER

FABRICATION

HEAVY DUTY COPPER COMPRESSION GROUNDING TERMINAL. (TYPICAL) FRAME AND COVER (PAID FOR SEPARATELY) **EXISTING HANDHOLE COVER & FRAME - GROUNDING DETAIL** 

**CABINET - BASE BOLT PATTERN** 

BOLT LOCATIONS

NOTES:

-PAGINCK FURNISHED BY

-1 1/4" (30mm) DIA. COUPLING

-SECONDARY ELECTRICAL

-1/C GROUND (GREEN COLOR CODED)

DOOR OPENING

13.75" (0.35m)

(413 mm) 16.25"

SERVICE BY UTILITY CO.

-STRAIN RELIEF COUPLING

-2/C (NEUTRAL-WHITE, PHASE-BLACK)

ELECTRICAL SERVICE - PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE) SERVICE INSTALLATION POLE MOUNT (SHOWN)

DOOR-

LOCK

CONTRACTOR, KEYED TO DISTRICT 1 REQUIREMENTS

-COMPRESSION LATCH, TYP. (2 MIN. REQ'D)

1. ELECTRIC SERVICE PANELS SHALL BE CONSTRUCTED TO U.L. STD 508.

TRAFFIC SIGNAL

CIRCUIT

NEUTRAL GROUND BUS BUS

BREAKER

CONTROLLER CABINET

INDUSTRIAL CONTROL PANEL, AND CARRY THE U.L. LABEL.

2. ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.

I.D.O.T. IDENTIFICATION DECALS SHALL BE MOUNTED TO FRONT OF DOORS OF ALL TYPES

-ELECTRICAL SERVICE

-CONDUIT BUSHINGS

SEE PANEL DIAGRAM, ABOVE

- SEE CABINET BASE, BELOW

1" CHAMFER, CONTINUOUS

-24" (0.60m), - 4' (1.2m) DEPTH SQUARE FOUNDATION

-3/4" x 10' (20mm x 3.0m) COPPER CLAD GROUND ROD

TO TRAFFIC SIGNAL CONTROLLER 2" (50mm) GALV. CONDUIT

-STANDOFF

DISCONNEC

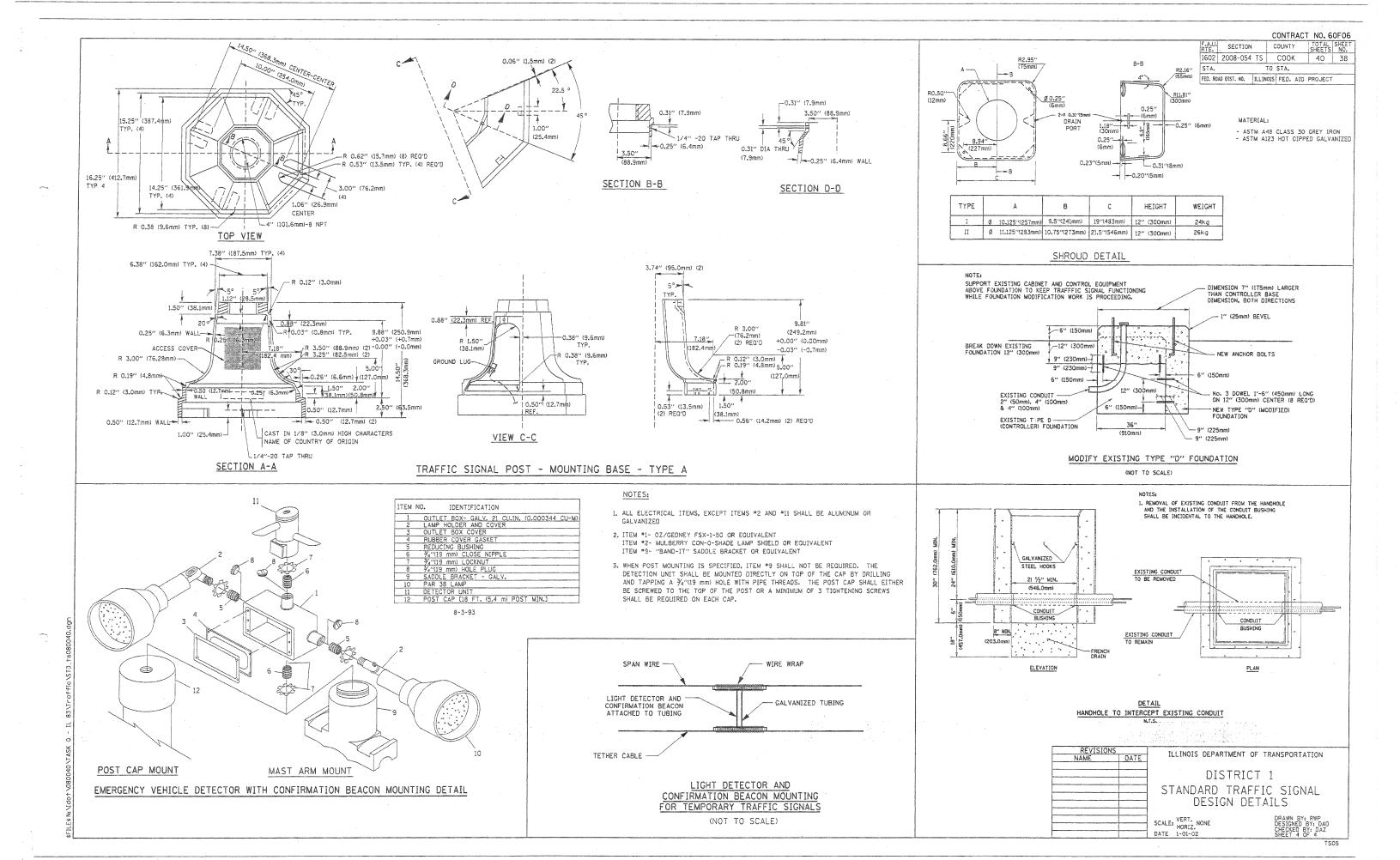
-15A. MAIN

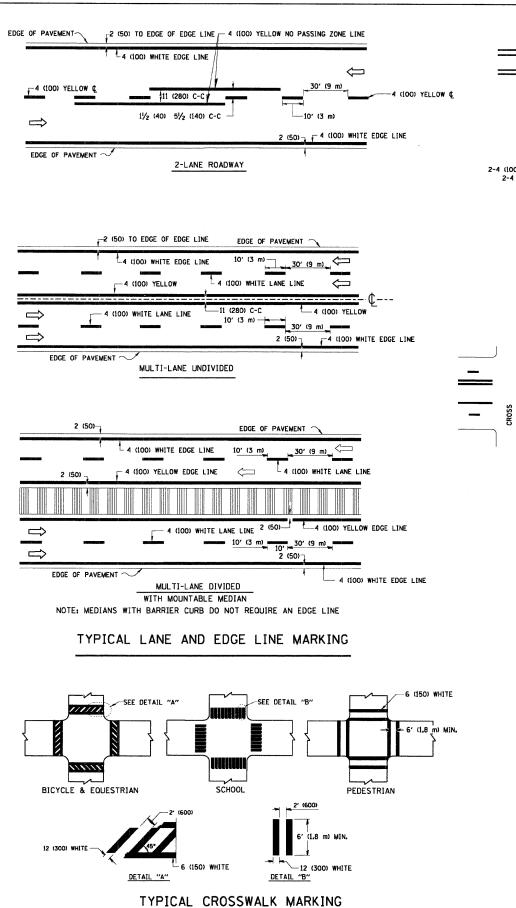
DISCONNECT

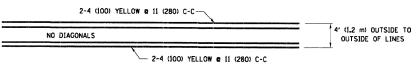
-PANELBOARD

FUSE, KLKR 1/4 A

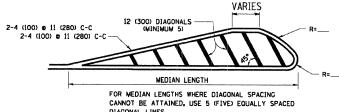
(NOT TO SCALE





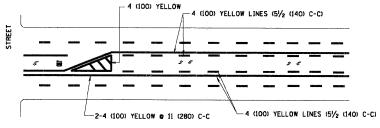


#### 4' (1.2 m) WIDE MEDIANS ONLY

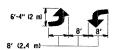


DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

#### MEDIANS OVER 4' (1.2 m) WIDE

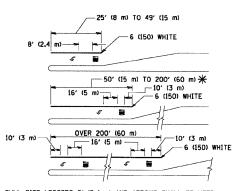


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

#### TYPICAL PAINTED MEDIAN MARKING



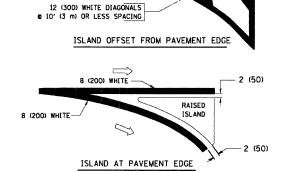
FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.  $\P$  AREA = 15.6 SO. FT. (1.5 m<sup>2</sup> ) ONLY AREA = 20.8 SO. FT. (1.9 m<sup>2</sup>)

\* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

#### TYPICAL TURN LANE MARKING

CONTRACT NO. 60F06 COUNTY TOTAL SHEET NO. RTE. SECTION 1602 2008-054 TS COOK FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT



8 (200) WHITE-

### TYPICAL ISLAND MARKING

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVEDED PAVEMENT	2 2 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 0 4 (100)	SOLID SOLID	YELLOW YELLOW	5½ (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION	SKIP-DASH AND SOLID	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE
	8' (2.4m) LEFT ARROW	IN PAIRS	WHITE	SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 % 6 (150) 12 (300) % 45° 12 (300) % 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (500) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1,2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS & 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES, "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m²) EACH "X"=54.0 SQ. FT. (5.0 m²)
SHOULDER DIAGONALS	12 (300) <b>c</b> 45°	SOLID	WHITE - RIGHT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

All dimensions are in inches (millimeters) unless otherwise shown.

REVISIONS				
NAME	DATE	ILLINO	S DEPARTMENT OF TRANSPORTATION	
EVERS	03-19-90			
T. RAMMACHER	10-27-94		DISTRICT ONE	
ALEX HOUSEH	10-09-96		DISTRICT ONE	
ALEX HOUSEH	10-17-96		TYPICAL PAVEMENT	
T. RAMMACHER	01-06-00	MARKINGS		
			MARKINGS	
		SCALE: NONE	DRAWN BY CADD	
	1	SCALL! NONE	DRAWN BY CADD	

DRAWN BY CADD CHECKED BY

RTE. SECTION 1602 2008-054 TS FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT 68 (1700) 54 (1350) (175) (175) ROAD WORK EXPECT DELAYS USE APPROPRIATE MONTH AND DATE FOR CONTRACT -1 (25) BLACK BORDER MIN. BEGINS XXX XX (2.1 58 (1450) NOTES: 1. USE BLACK LETTERING ON ORANGE BACKGROUND. 2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER. 3. ERECT SIGN (1) WITH INSTALLED PANEL (2) ONE WEEK PRIOR TO THE START OF CONSTRUCTION. 4. REMOVE PANEL 2 SOON AFTER THE START OF CONSTRUCTION. 5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION. 6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.) 7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS)
UNLESS OTHERWISE SHOWN. ILLINOIS DEPARTMENT OF TRANSPORTATION ARTERIAL ROAD INFORMATION SIGN

SCALE: NONE

DRAWN BY DESIGN CHECKED BY