STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION **DIVISION OF HIGHWAYS**

FOR INDEX OF SHEETS, SEE SHEET NO. 2

PLANS FOR PROPOSED FEDERAL AID HIGHWAY

DISTRICT 1 HIGHWAY SAFETY IMPROVEMENT PROJECT TRAFFIC SIGNAL MODERNIZATION **VARIOUS ROUTES** AT (8) VARIOUS SIGNALIZED INTERSECTIONS IN NORTH COOK COUNTY, ILLINOIS

> F.A.P. ROUTES 559,339 \$ 341 (IL 58, IL 62 \$ IL 72) **SECTION 2009-008 TS** PROJECT NO. C-91-318-09 COOK COUNTY PROJECT: HSIP-0005 (665)

Frequency States for States	Race Course	Mali Pa
William Rainey Harper College 62 Hum drove Records Core Fact	Cardinal Date Sunt	Arlington Heights
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Schaumberg Golf Course	1 100	
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For Run		
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	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
	CURB AND GUTTER
606301-04	P.C. CONCRETE ISLANDS AND MEDIANS
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
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
314001-02	HANDHOLES
314006-02	DOUBLE HANDHOLES
357001-01	STANDARDS PHASE DESIGNATION DIAGRAMS
	AND PHASE SEQUENCES
362001-01	UNINTERRUPTABLE POWER SUPPLY (UPS)
373001-02	TRAFFIC SIGNAL GROUNDING & BONDING
377001-04	STEEL MAST ARM ASSEMBLY AND POLE
378001-07	CONCRETE FOUNDATION DETAILS
200004 04	COAN MEDE MOUNTED CLOUM CAND EL ACURSO

880001-01 SPAN WIRE MOUNTED SIGNALS AND FLASHING BEACON INSTALLATION TRAFFIC SIGNAL MOUNTING DETAILS DETECTOR LOOP INSTALLATIONS

PREPARED BY: Steen Time

TRAFFIC ENGINEER

ILLINOIS REGISTRATION No. 062-045853 EXPIRATION DATE: 11-30-2009 PROFESSIONAL DESIGN FIRM No.: 184-001742

EXPIRATION DATE: 04:30-2009

J.U.L.I.E.

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION 1-800-892-0123 OR 811

\080040\Task S- EE Northwest Cook Safety\Traffic\CVR_60G04.dg

CONTRACT NO. 60G04

2009-008-TS C00K 41 ILLINOIS CONTRACT NO. 60G04



STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DEVINE M. O'Keef. OF
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER Charles Q. Dingusolife ENGINEER OF DESIGN AND ENVIRONMENT March 27, 2009 Christin M. Reed (D)

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

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	PLOT DATE = 1/26/2009	DATE ~	-		REVISED	

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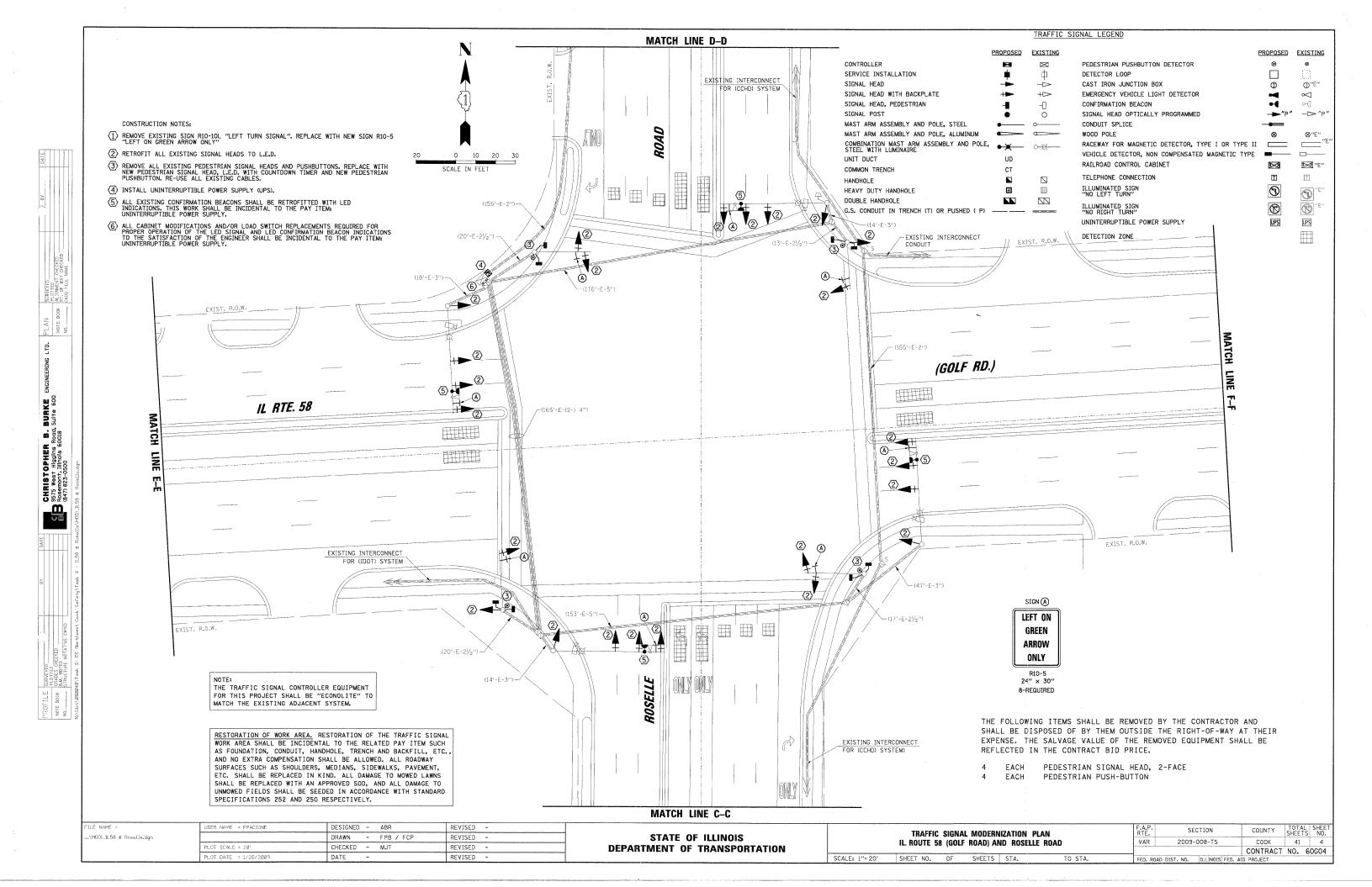
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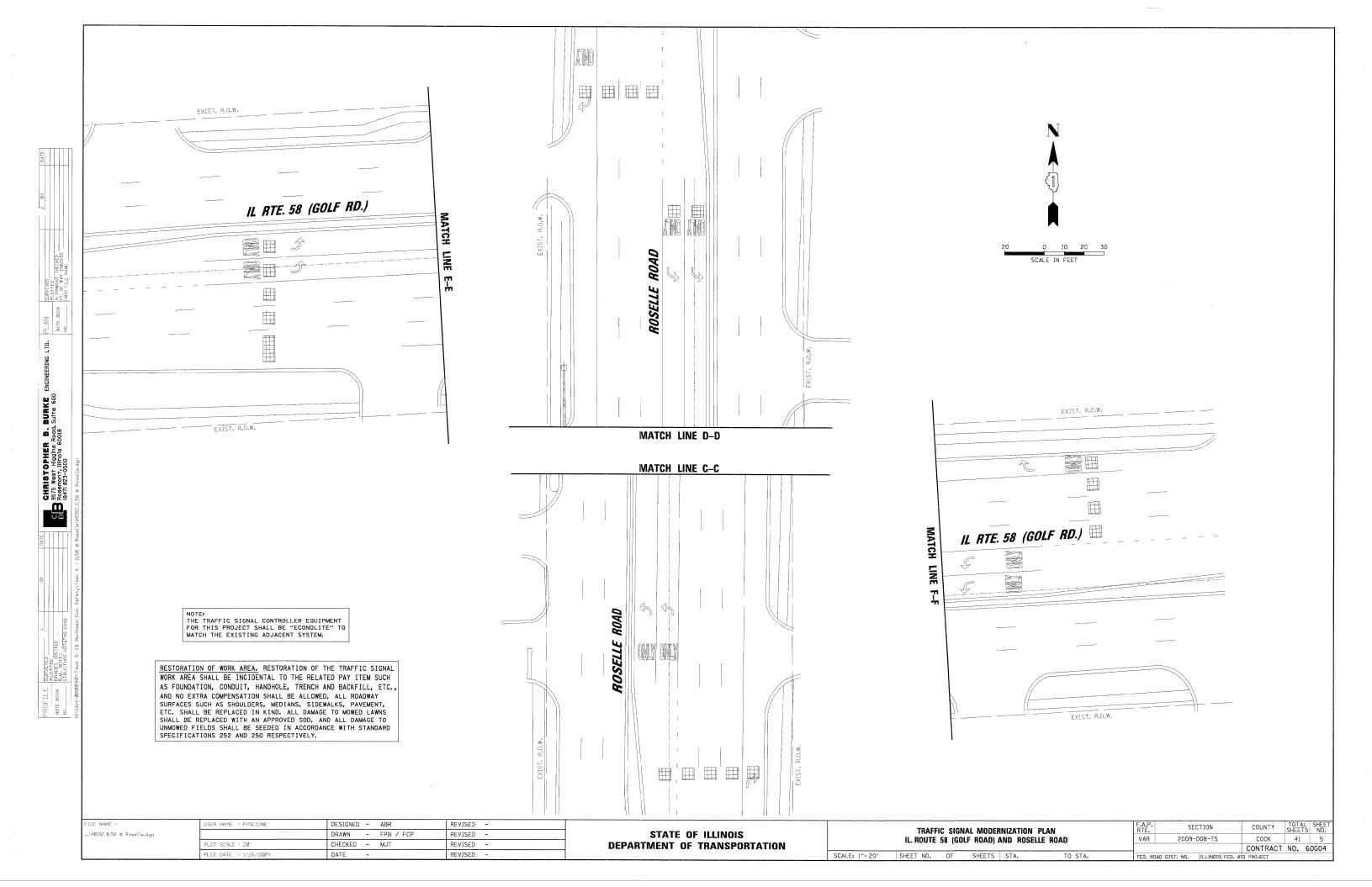
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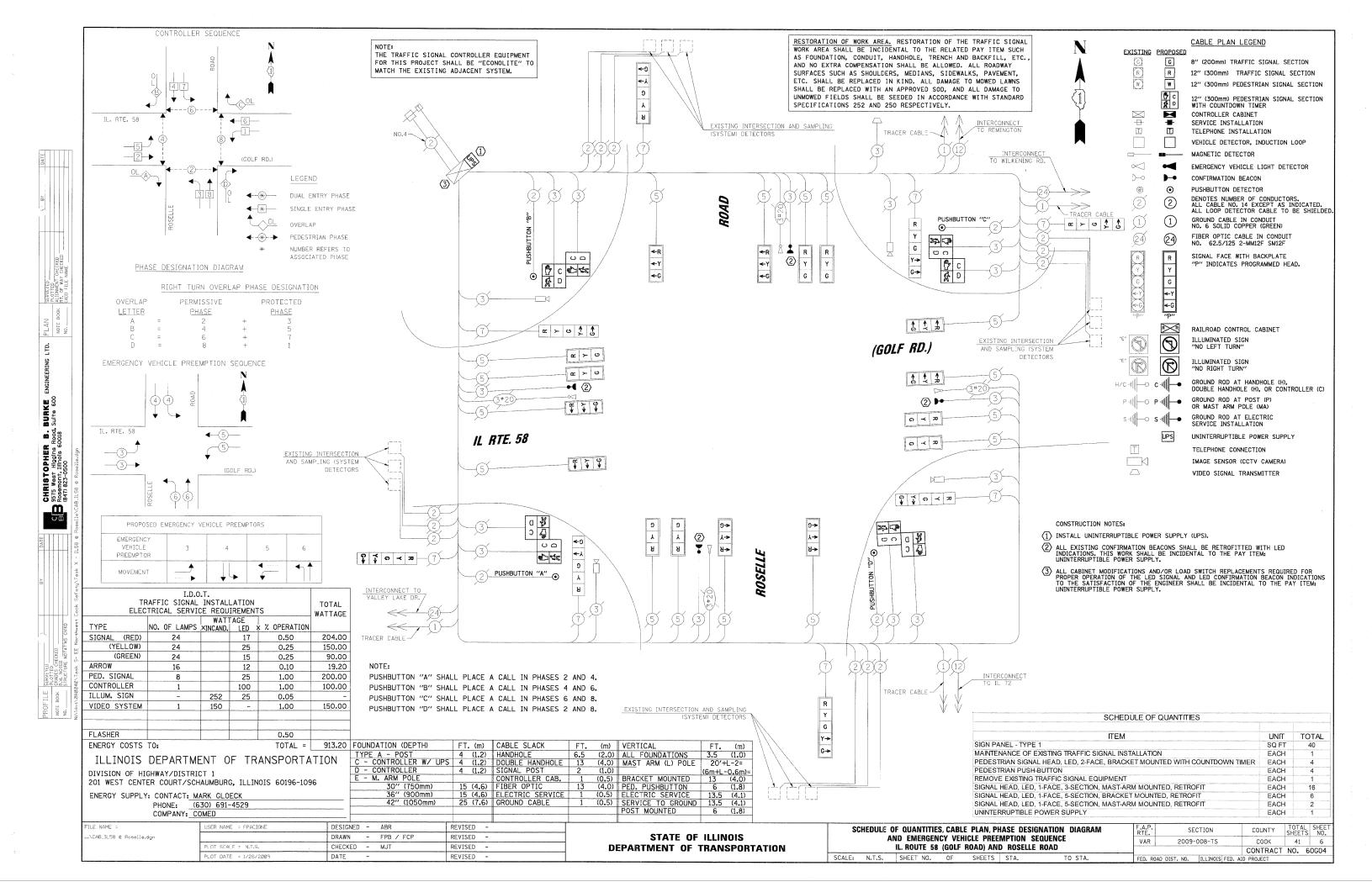
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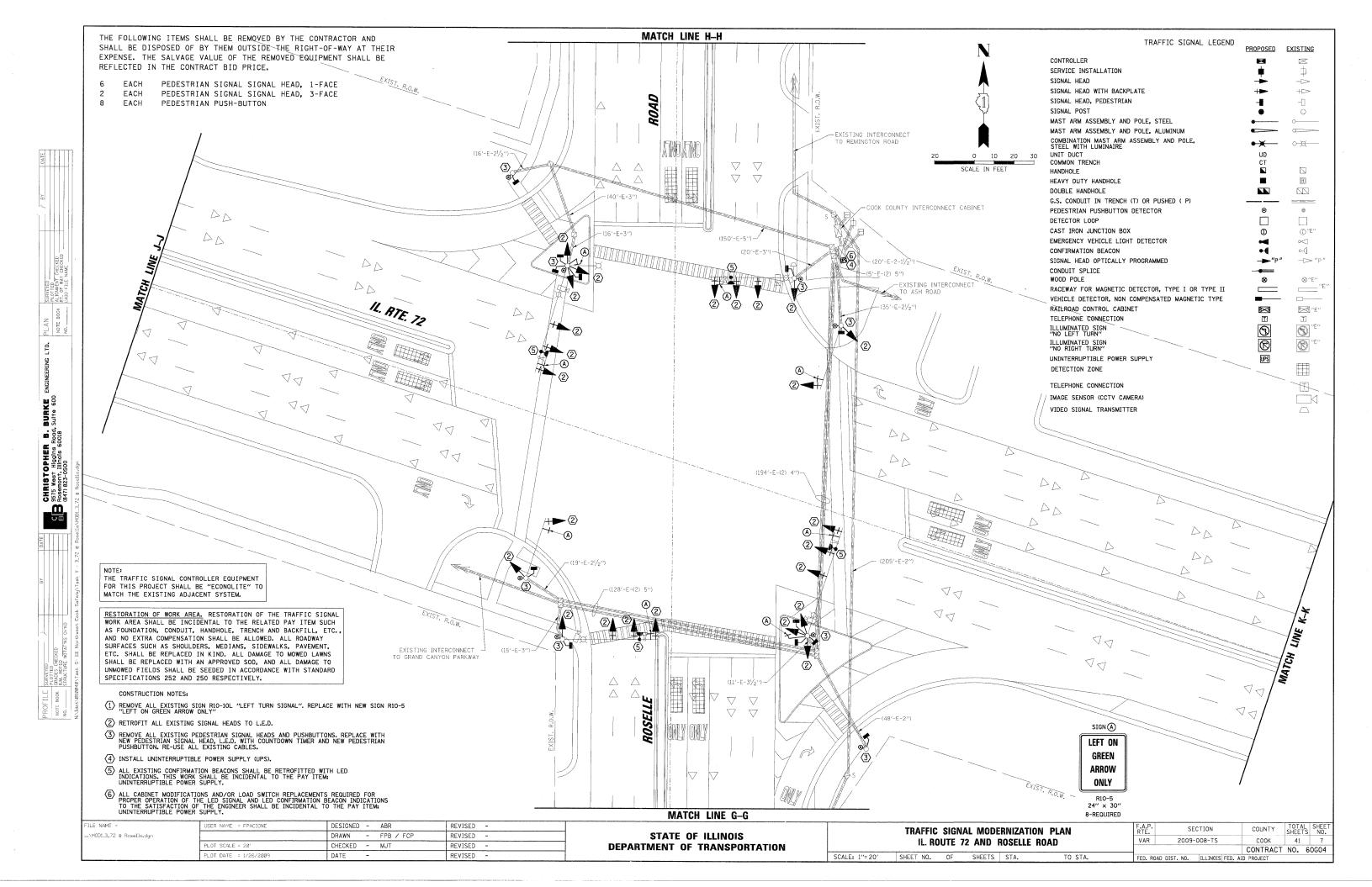
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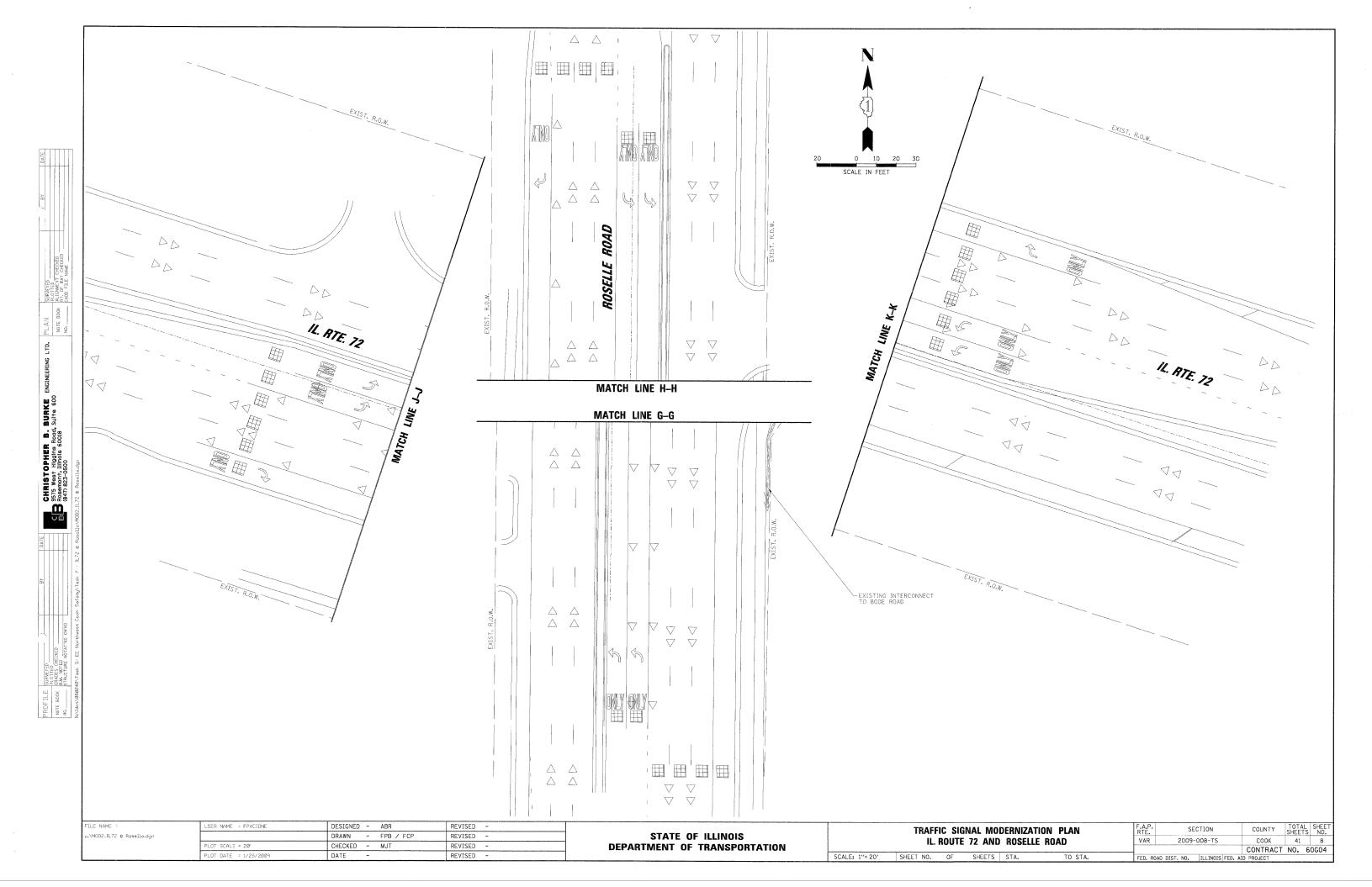
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			URBAN		58 @ I-290					III. Rte. 62 @	III. Rte. 72 @				
			I GIDAN		ntage Road/ or Parkway		8 @ I-290 tage Road	III. Rte. 58 @ Roselle Road		Arlington Heights Rd.	Arlington Heights Rd.	III. Rte. 58 @ Meacham Rd.	III. Rte. 72 @ Meacham Rd.	Interconnect	1
CODE NO.		UNIT	TOTAL	Y031 1F	Y031 3D *	Y031 1F	Y031 3D *	Y031 1F	Y031 1F	Y031 1F	Y031 1F	Y031 1F	Y031 1F		1
	SIDEWALK REMOVAL COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	SQ FT FOOT	250 30	250 30											1
	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	5	1		1		0.5	0.5	0.5	0.5	0.5	0.5		1
	MOBILIZATION TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1 1	0.11		0.11		0.11	0.11	0.11 0.11	0.11	0.11	0.11 0.11	0.12 0.12	1
70102630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	L SUM	1	0.33		0.33								0.34	1
	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701 TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1 1	0.11		0.11		0.11	0.11	0.11 0.17	0.11	0.11	0.11 0.16	0.12	1
· · · · · · · · · · · · · · · · · · ·	SIGN PANEL - TYPE 1	SQFT	218	18				40	40	40	40	0.11	40		1
	SIGN PANEL - TYPE 2 CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	SQ FT FOOT	62.5 2148	50 755		12.5 808								585	1
81000700	CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL	FOOT	55	12		43								000	1
	CONDUIT IN TRENCH, 3" DIA., GALVANIZED STEEL CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL	FOOT	159 40	22 40		137									1
81001100	CONDUIT IN TRENCH, 5" DIA., GALVANIZED STEEL	FOOT	20	10		10									1
	CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	674 495	230 257		444 238									1
81400100	HANDHOLE	EACH	10	6		4									1
	HEAVY-DUTY HANDHOLE DOUBLE HANDHOLE	EACH EACH	2 2	1		1 1					,				1
81900200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	2615	934		1096								585	1
	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH EACH	8 2	1		1		1	1	11	1	1	1	2	1
86400100	TRANSCEIVER - FIBER OPTIC	EACH	2	1		1									1
87301215 87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	217 1921		603		1087				217 231				
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	5235	2459	003	2776	1001				201				4
87301255 87301305	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	682 5307	682 2609		2698									
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	745	373		372									1
87502480 87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT. TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH EACH	4 1	2		2									1
87502520	TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.	EACH	<u> </u>			1									i
87700220 87700250	STEEL MAST ARM ASSEMBLY AND POLE, 36 FT. STEEL MAST ARM ASSEMBLY AND POLE, 42 FT.	EACH EACH	3 2	1 1		2									ĺ
87700280	STEEL MAST ARM ASSEMBLY AND POLE, 48 FT.	EACH	1	1		1					<u> </u>				ĺ
87800100 87800150	CONCRETE FOUNDATION, TYPE A CONCRETE FOUNDATION, TYPE C	FOOT	28	16 4		12									Í
87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	90	45		45									ĺ
87900200 88030020	DRILL EXISTING HANDHOLE SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH EACH	30	9		9							12	1	f
88030050	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	7	2		5				· · · · · · · · · · · · · · · · · · ·			12		
88030080 88030230	SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-4 SECTION, BRACKET MOUNTED	EACH EACH	2	2											1 0 9
88030320	SIGNAL HEAD, LED, 3-FACE, 1-3 SECTION, 2-5 SECTION BRACKET MOUNTED	EACH	4						***				4		\ \frac{1}{2}
	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER		17					4	6	1 3	2	4	4		/
X0326269	PEDESTRIAN SIGNAL HEAD, LED, 3-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	9					4	2	1	1	4	2		2 9
	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM INDUCTIVE LOOP DETECTOR	EACH EACH	32 19	11		9							12		
88600100	DETECTOR LOOP, TYPE I	FOOT	1441	919		522									
	PEDESTRIAN PUSH-BUTTON TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH EACH	36	1		1	****	4	8	5	3	8	8		3 9
89501400	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	7		3	F	4								7
	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT REMOVE ELECTRIC CABLE FROM CONDUIT	EACH FOOT	2 1526		11		1							1526	,
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	8	1		1		1	1	1	1	1	1	1020	
	REMOVE EXISTING HANDHOLE REMOVE EXISTING CONCRETE FOUNDATION	EACH EACH	17	9 10	-	8 7									(4) /
XX004440	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT	EACH	2							11	1 1)
	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED, RETROFIT SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED, RETROFIT	EACH EACH	66 15					16 6	14	12	12	12			ĺ
XX004443	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED, RETROFIT	EACH	2					2							1
X8803040	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED, RETROFIT	EACH EACH	5							1 2	3	-			ı
X8803050	SIGNAL HEAD, LED, 3-FACE, 1-3 SECTION, 2-5 SECTION, BRACKET MOUNTED, RETROFIT	EACH	7						2	1		4			l
XX004913 X0325705	REMOVE FIBER OPTIC CABLE FROM CONDUIT REOPTIMIZE'SIGNAL SYSTEM LEVEL 2 \[\textit{TRAFFIC} \]	FOOT	1526 2											1526 2	l
X0322256	TEMPORARY INFORMATION SIGNING	SQ FT	51.4											51.4	
	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C TEMPORARY TRAFFIC SIGNAL TIMING.	FOOT	3102 2	1		1								3102	ı
X8050010	SERVICE INSTALLATION - GROUND MOUNTED	EACH	2	1		1	~~.								ı
	UNINTERRUPTIBLE POWER SUPPLY FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM12F	EACH FOOT	8 3180	1		1		1	1	1	1	1	1	3180	l
X8730027	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	1677	804		873								0100	ı
X8730250	ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED **X* Specialty Hems	FOOT	1690		603		1087								The state of the s
Tuess	NAME = FPACIONE DESIGNED - ABR REVISED -								.v	MADV OF OUT	MTITIES		TEAR		
USER	DESIGNED - ABR REVISED - DRAWN - FPB / FCP REVISED -		-	S	TATE OF ILL	INOIS		VARIO	SUM US ROUTES AT (MARY OF QUAI 8) VARIOUS SIG		RSECTIONS	F.A.P. RTE. VAR	SECTION 2009-008-TS	COUN
<u> </u>	SCALE = N.T.S. CHECKED - MJT REVISED -				ENT OF TRA				NORTH	COOK COUNTY	, ILLINOIS		VAR	5003-000-12	CONTR
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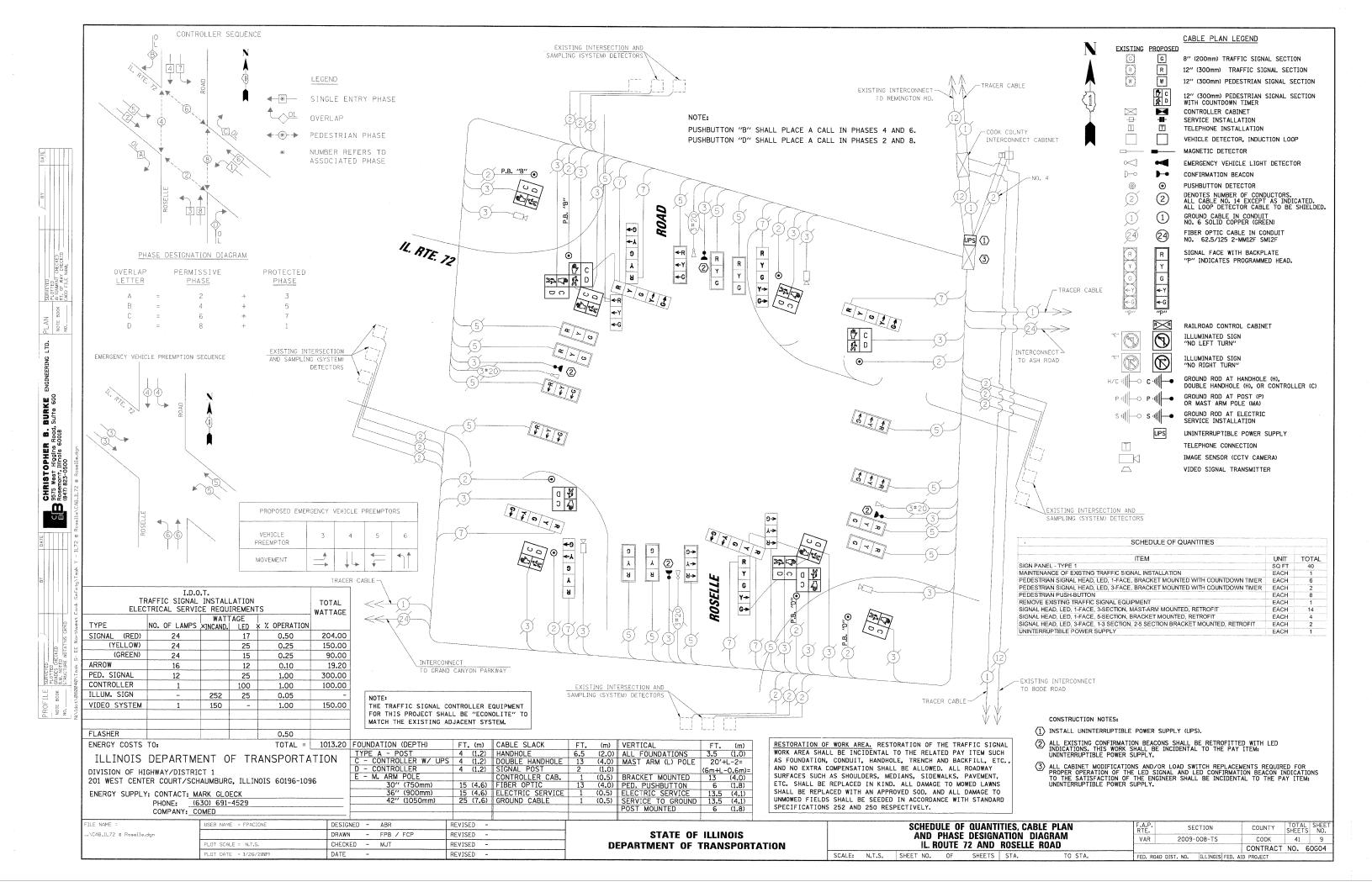


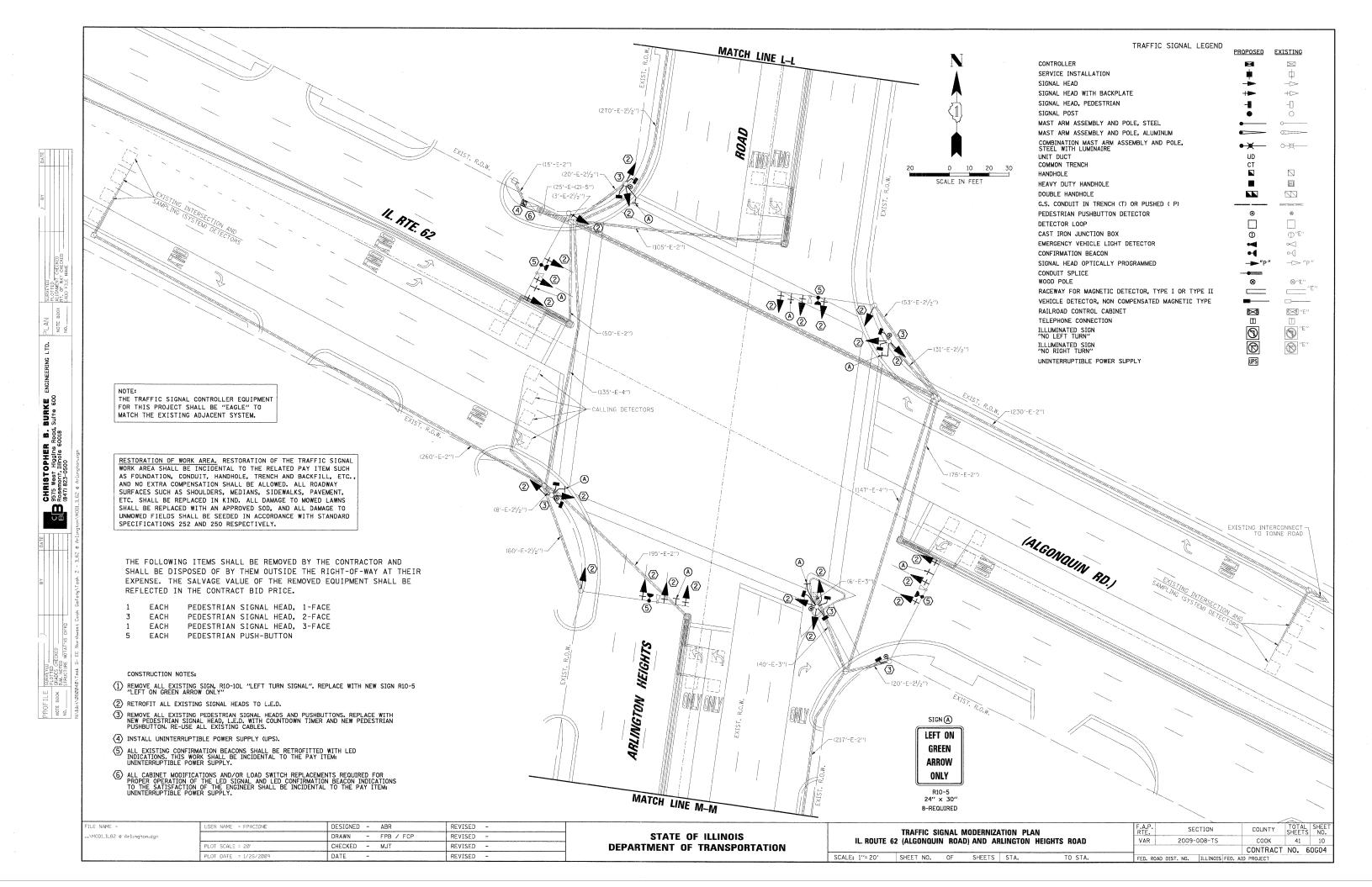


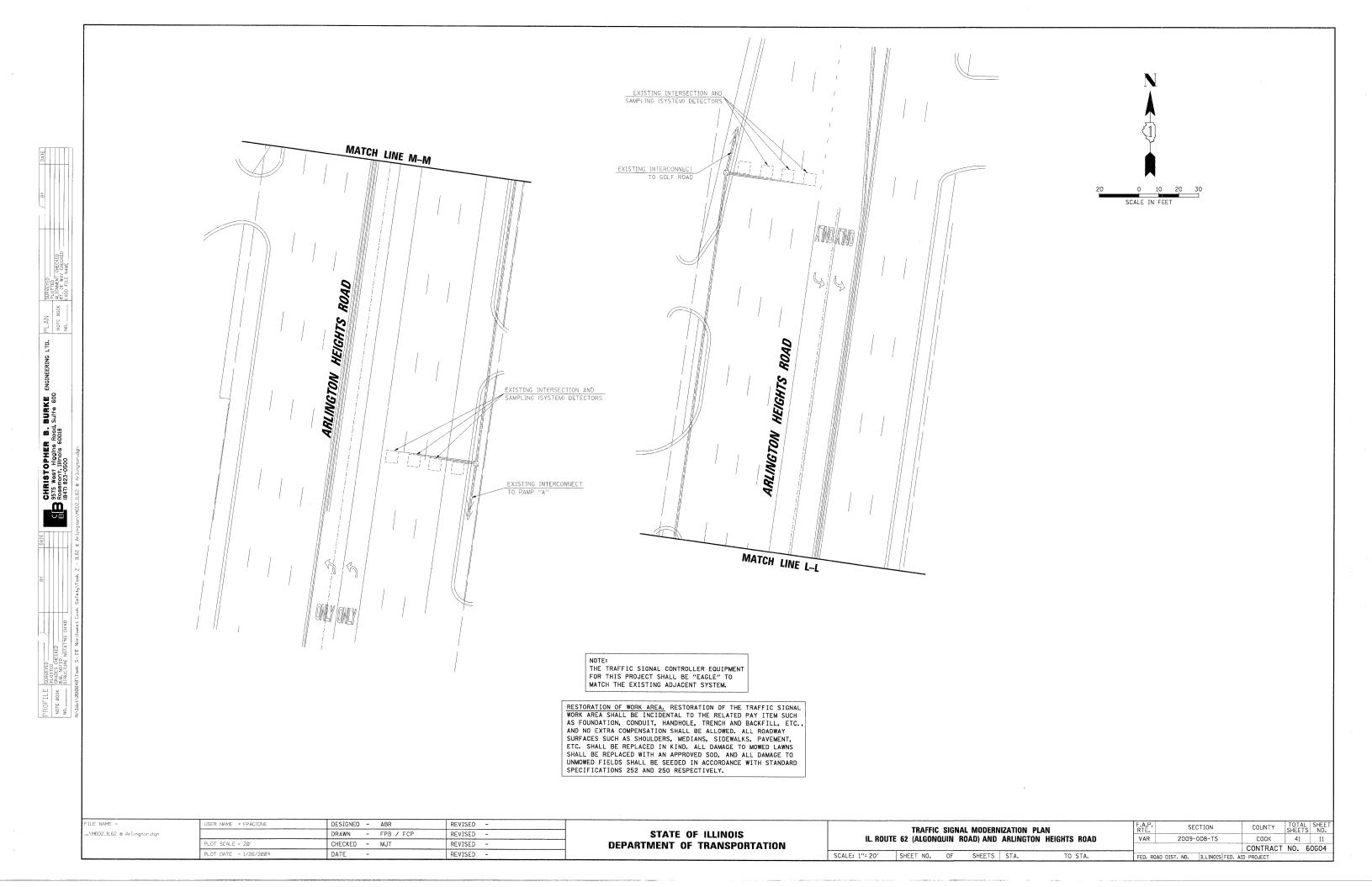


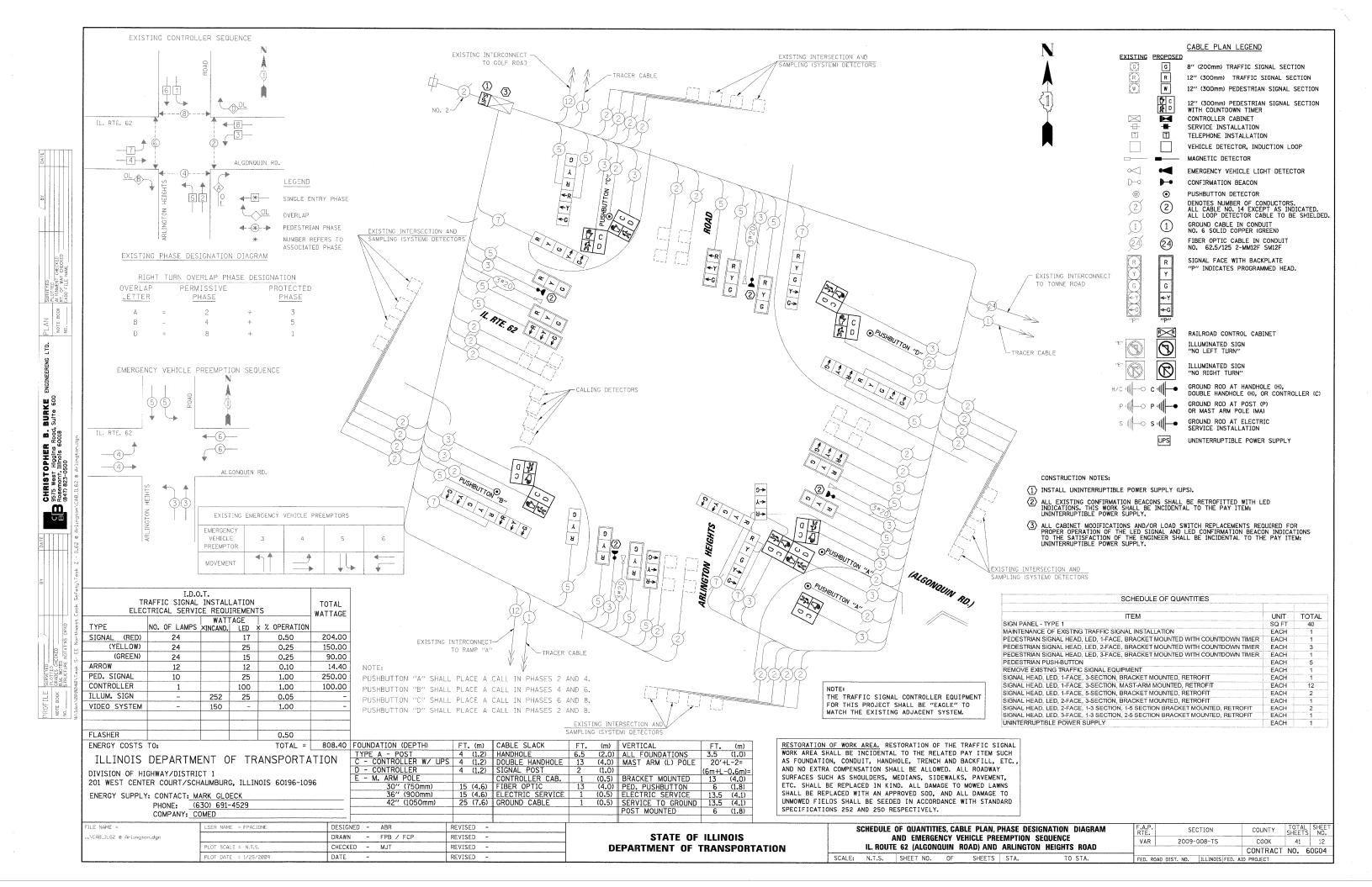


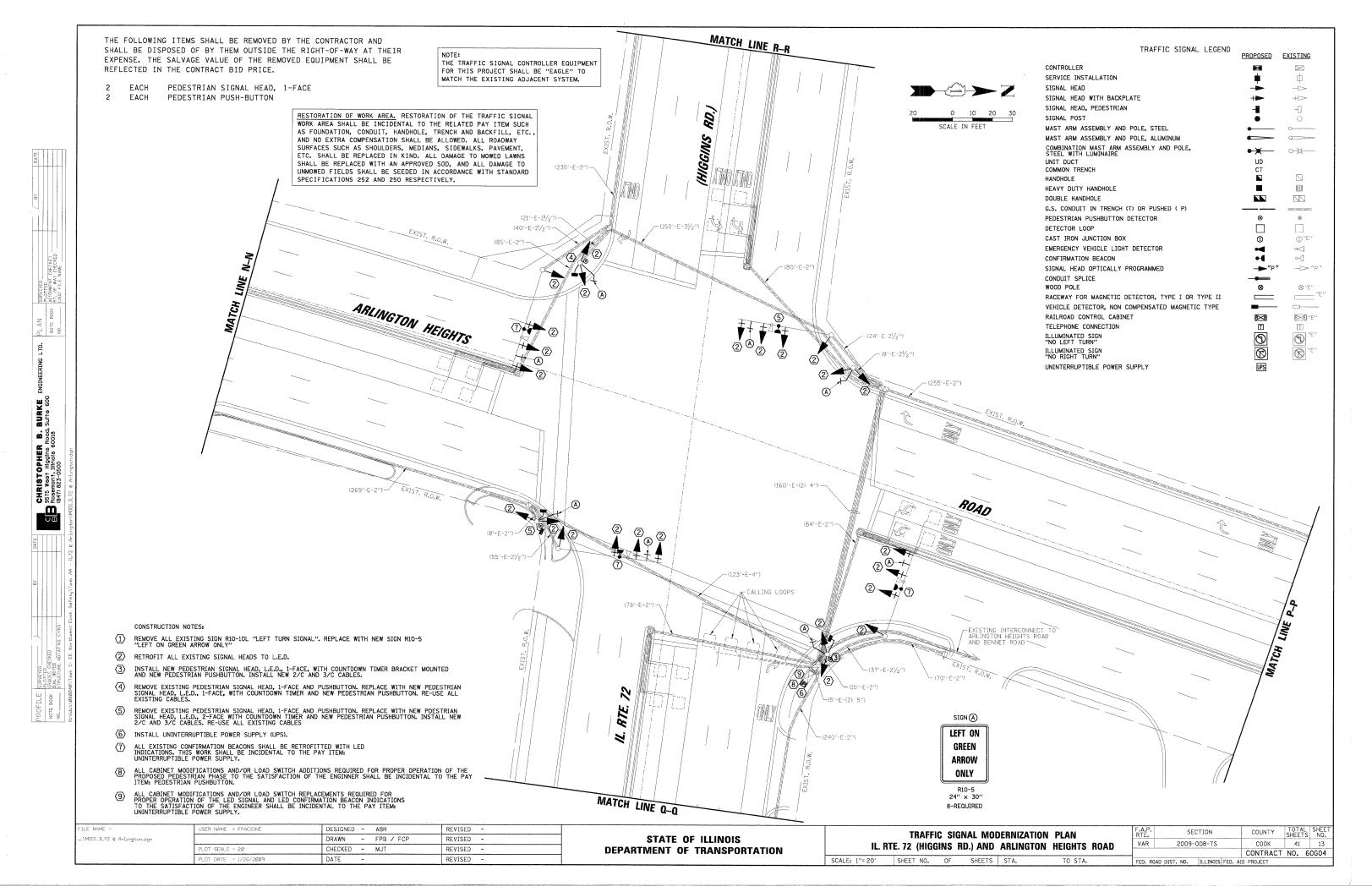


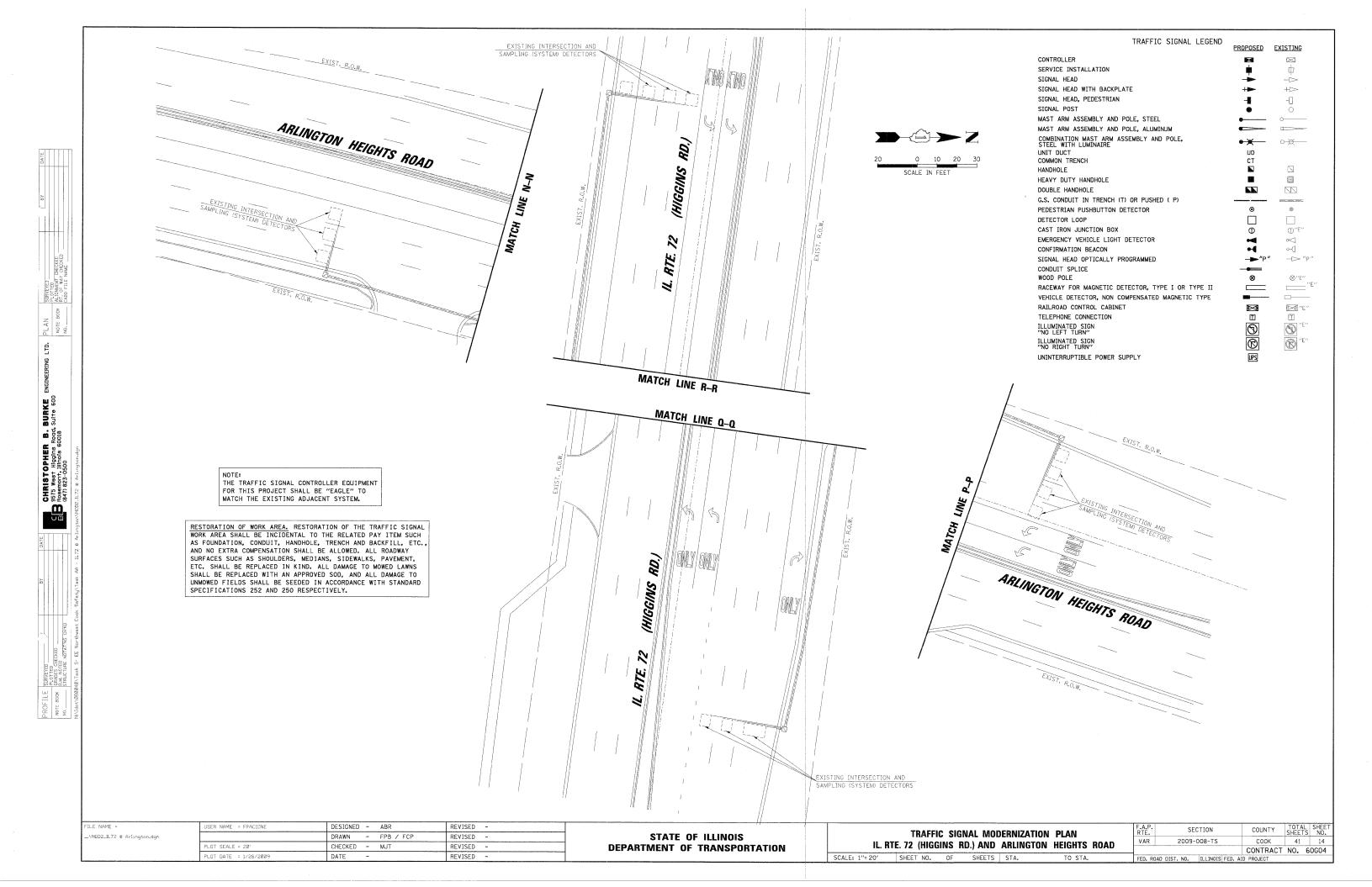


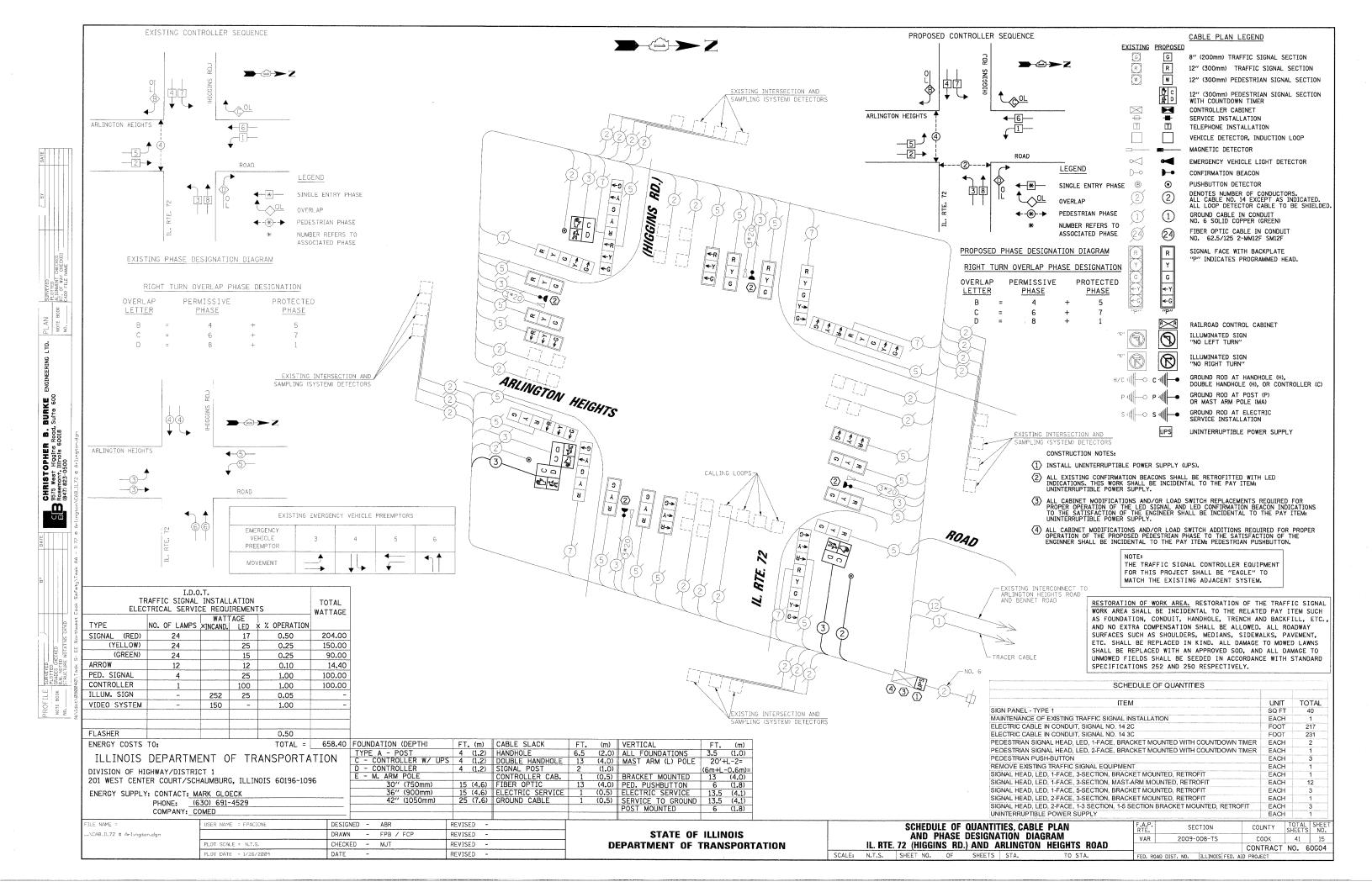


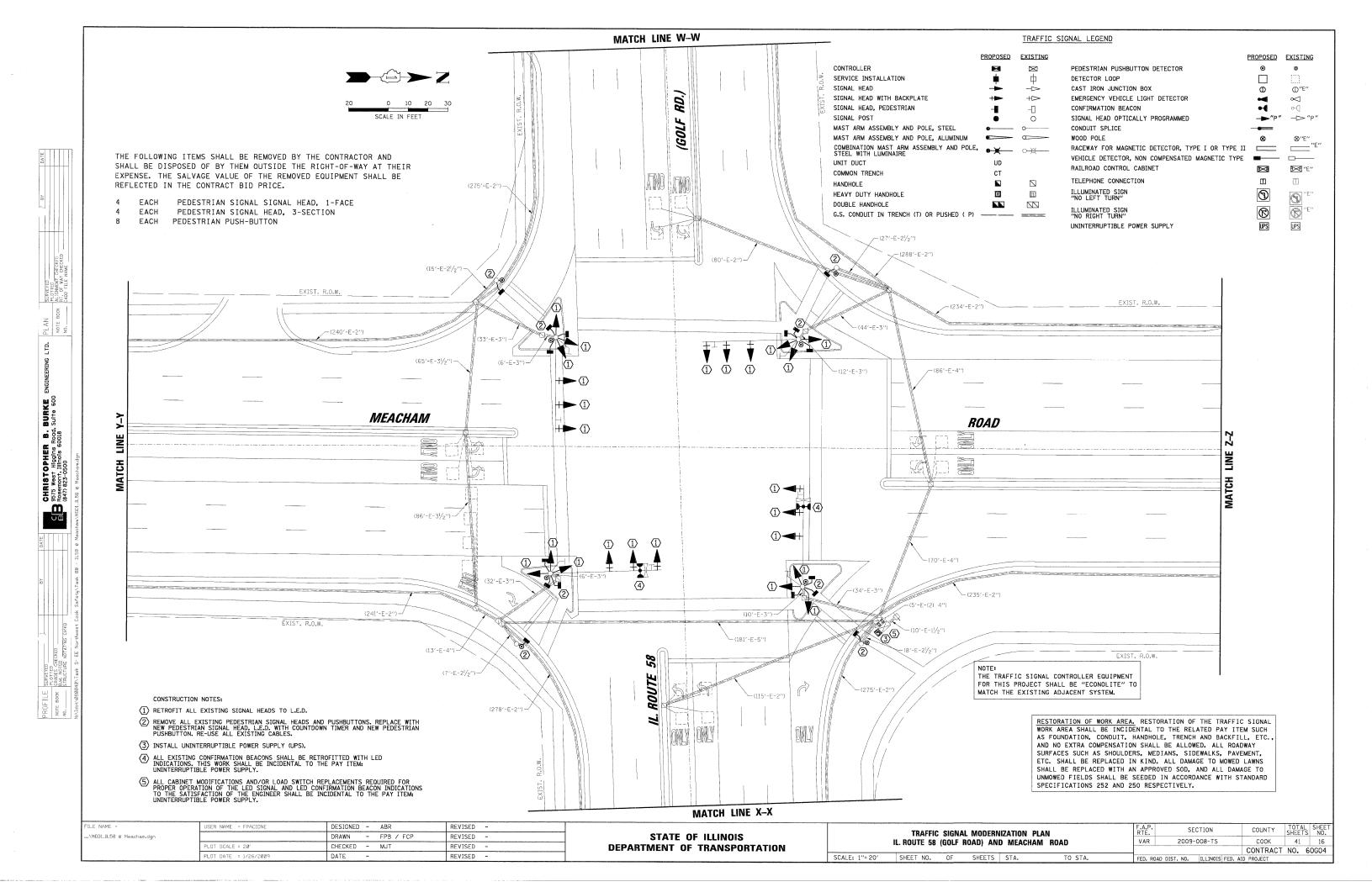


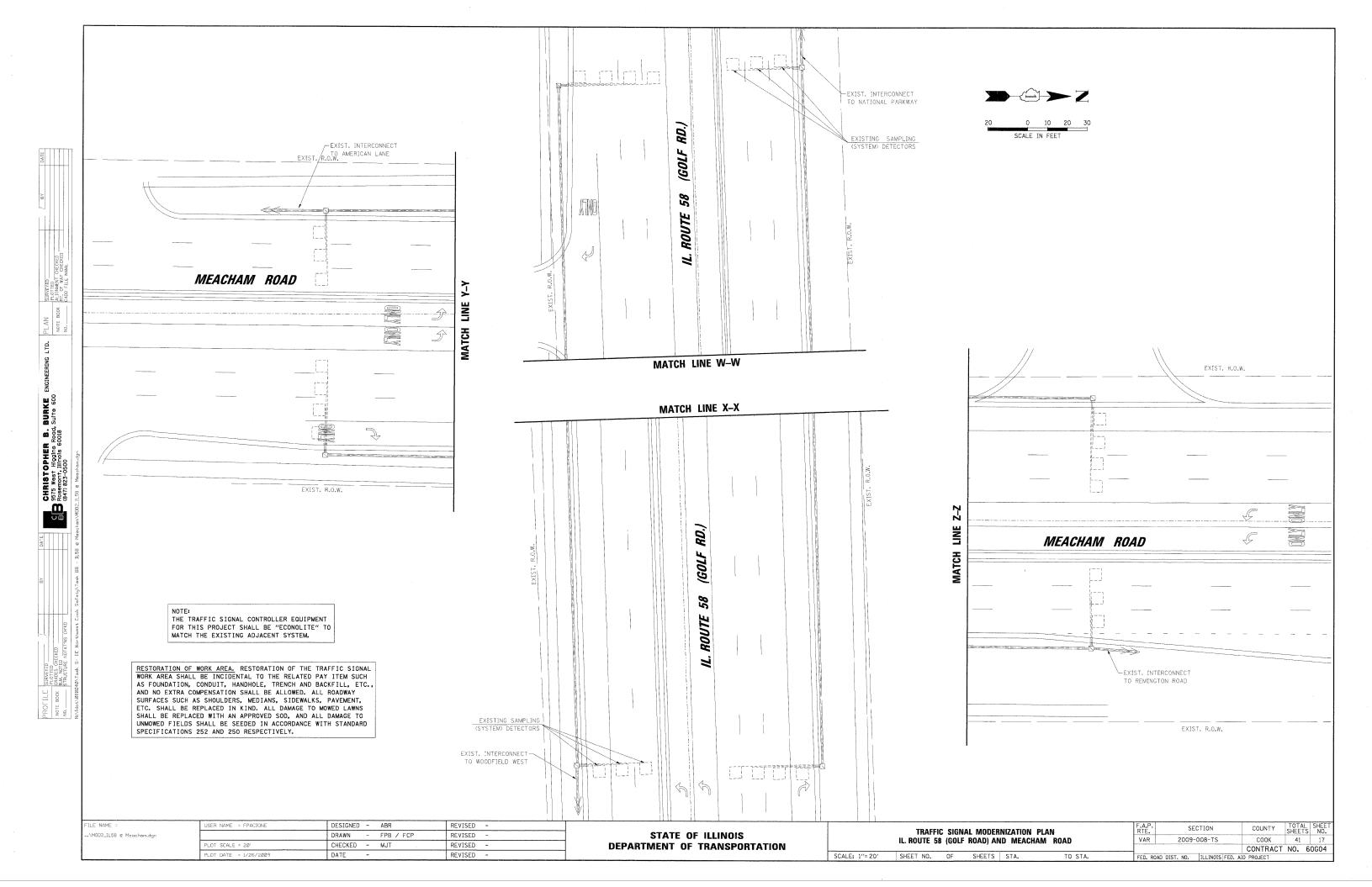


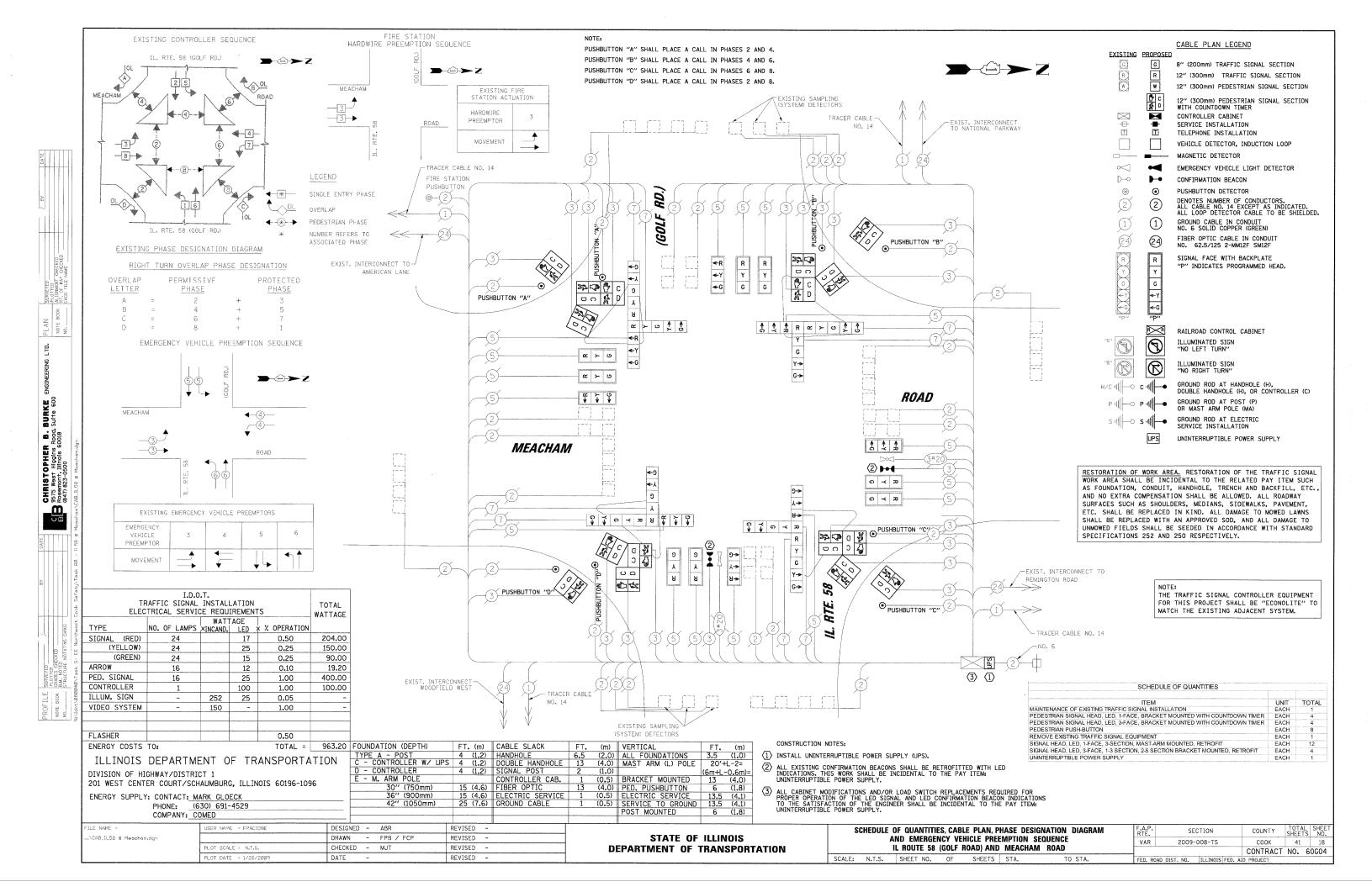


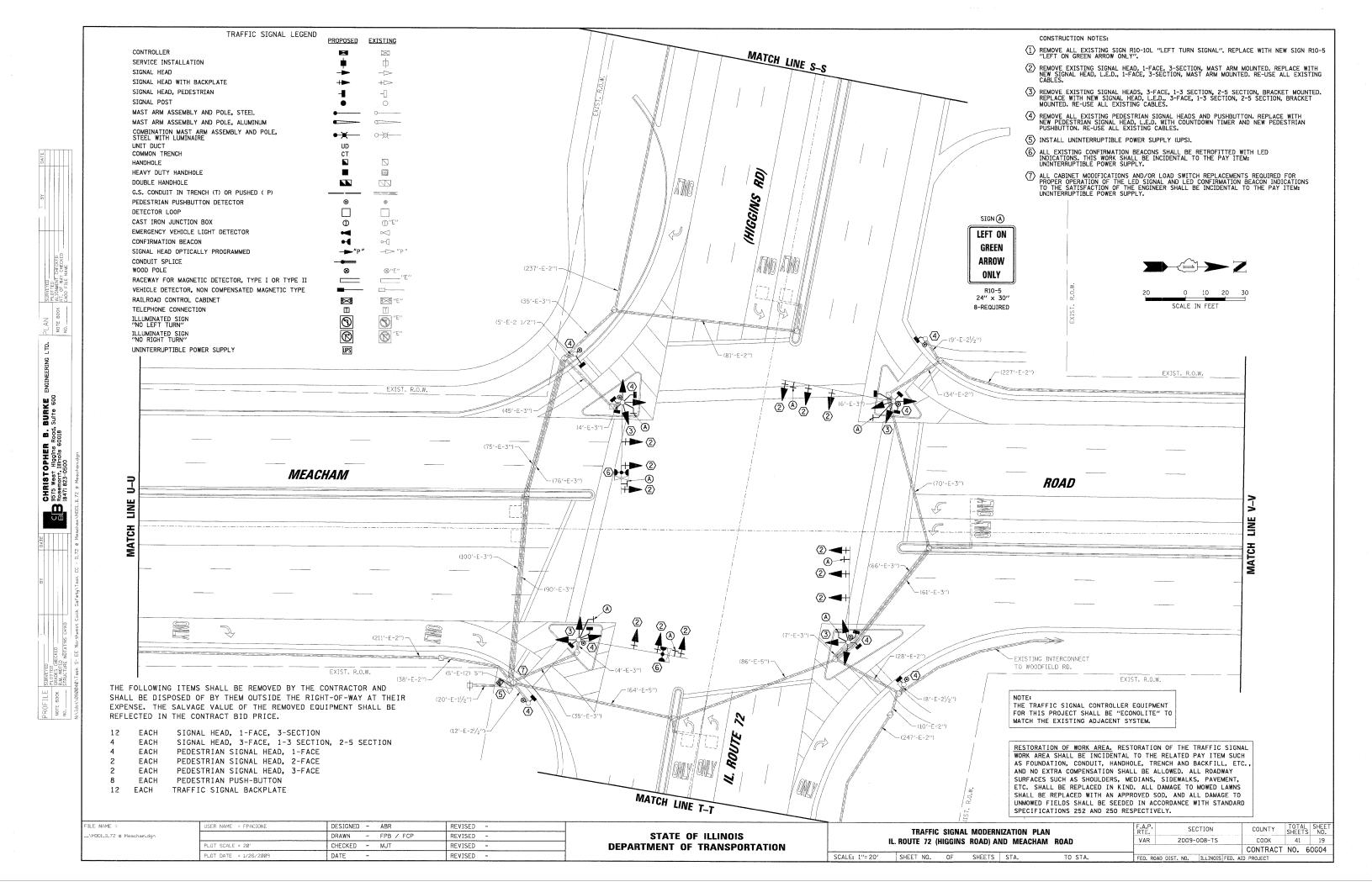


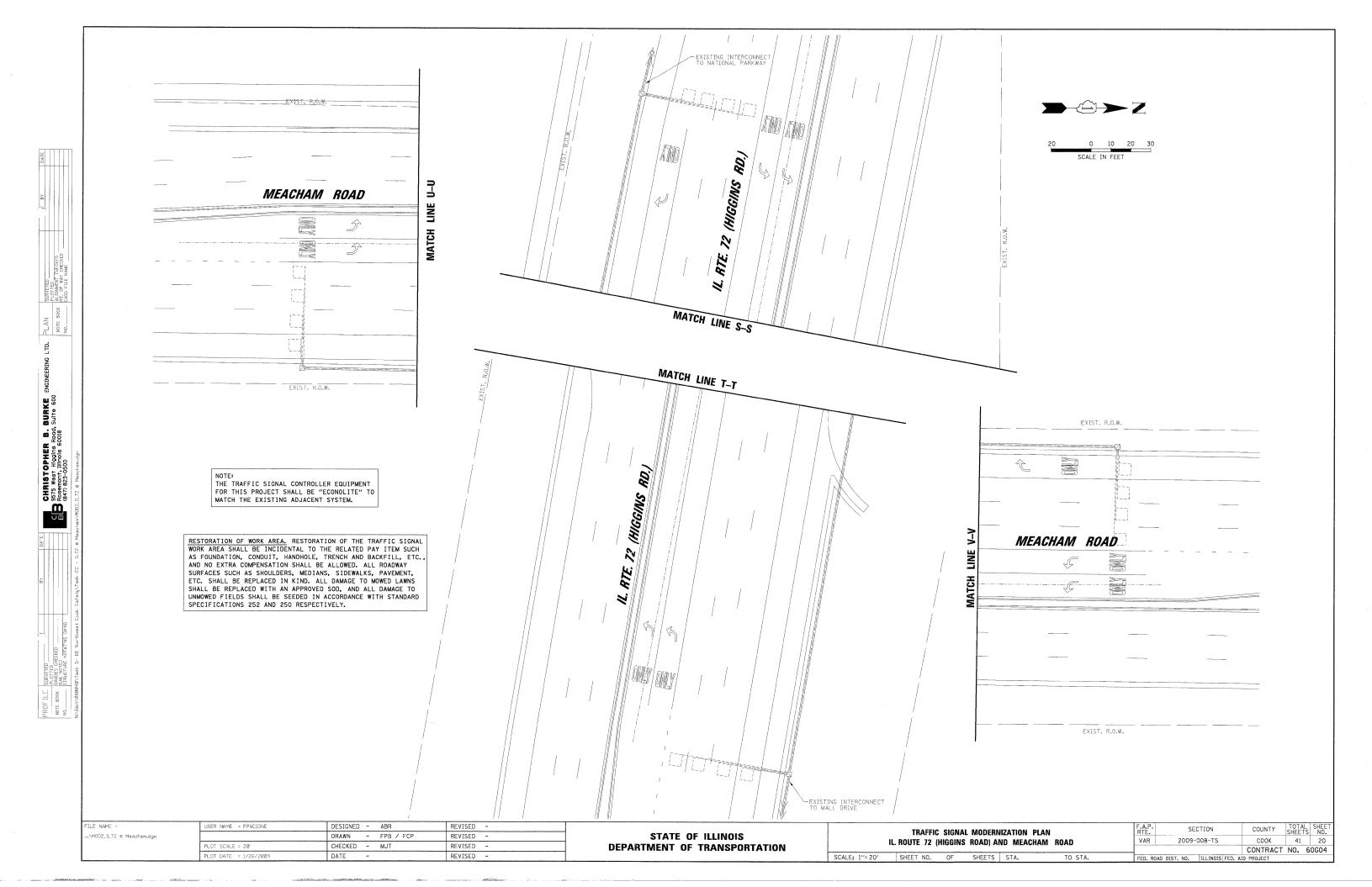


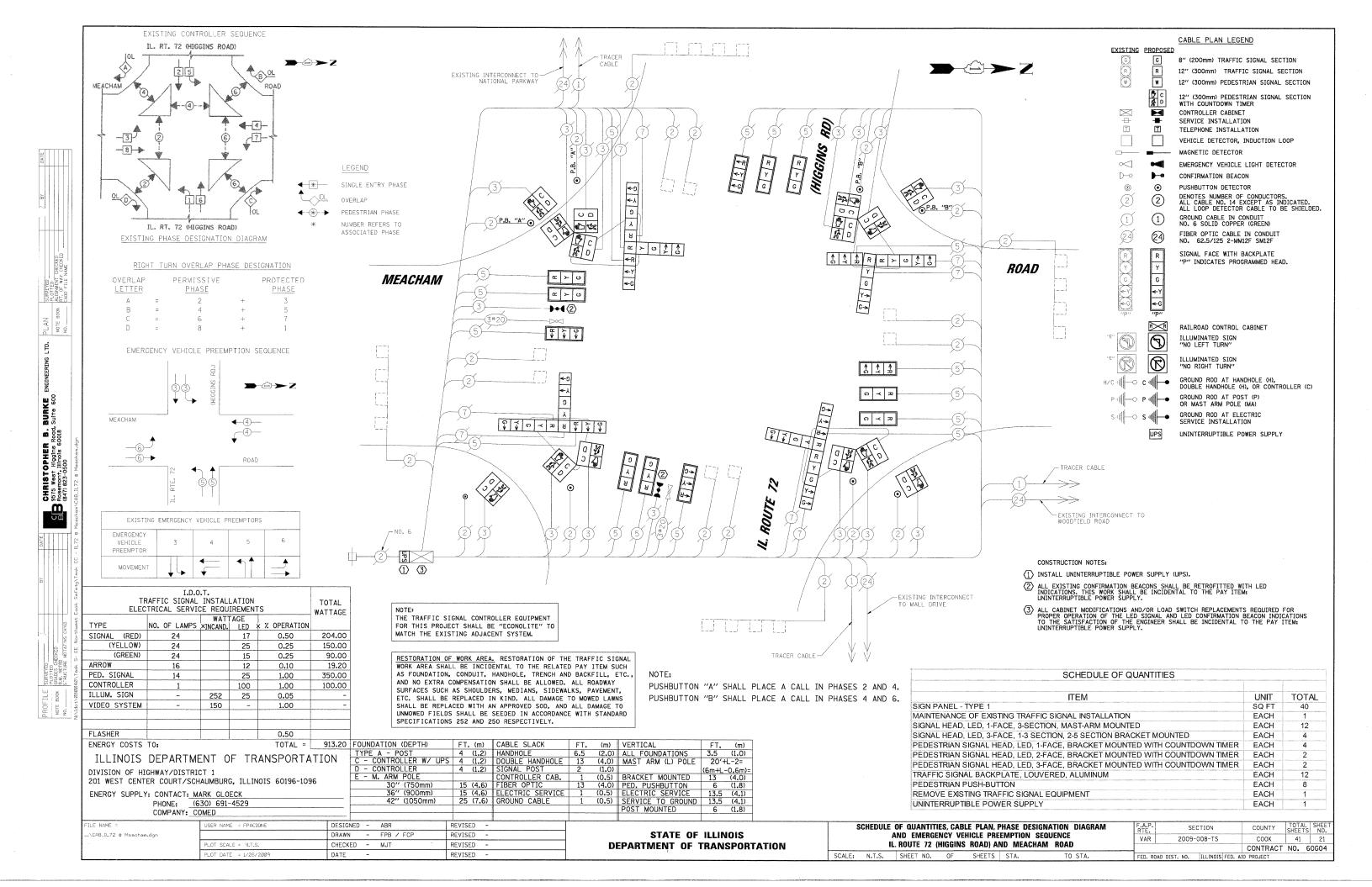


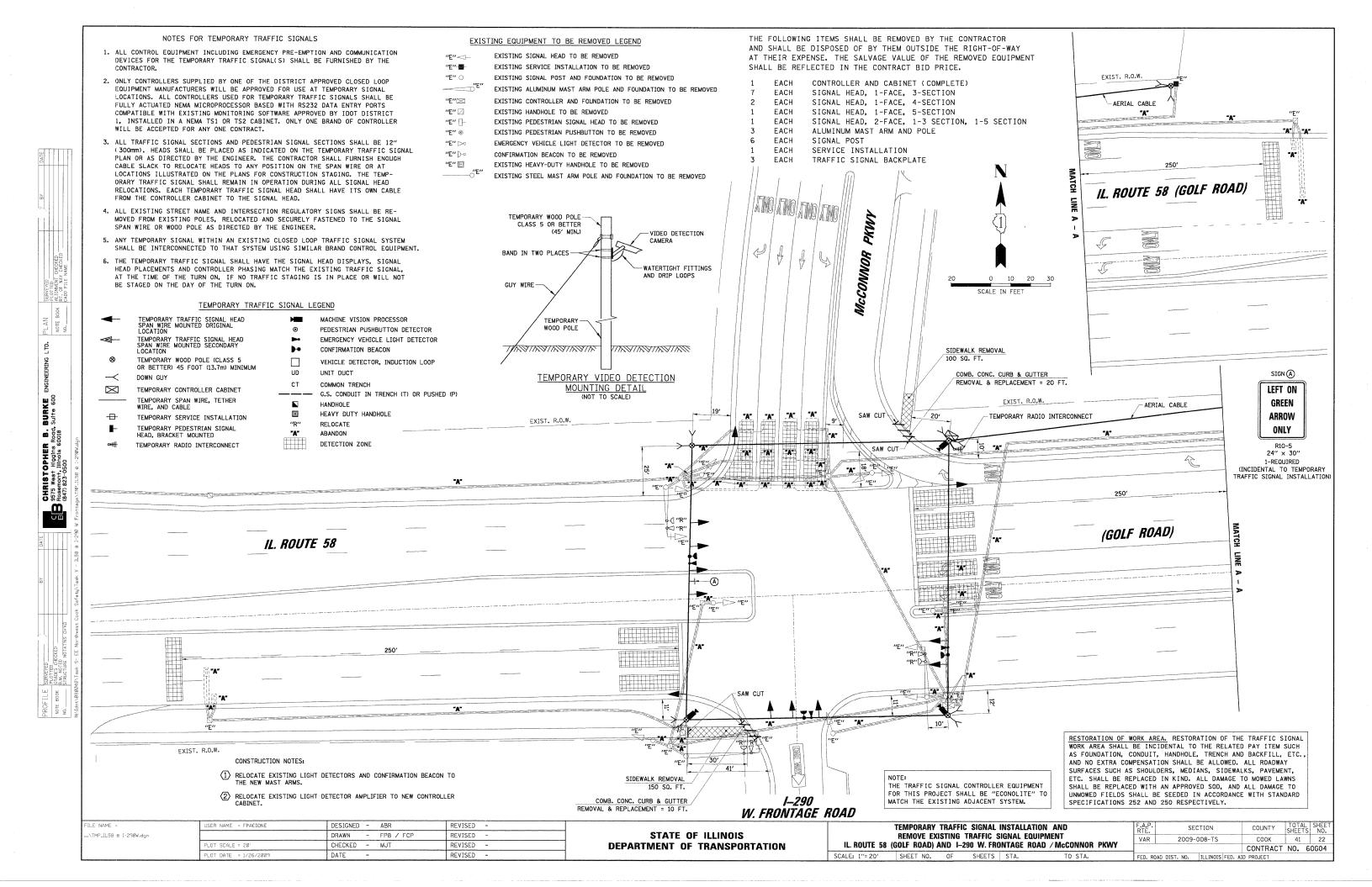


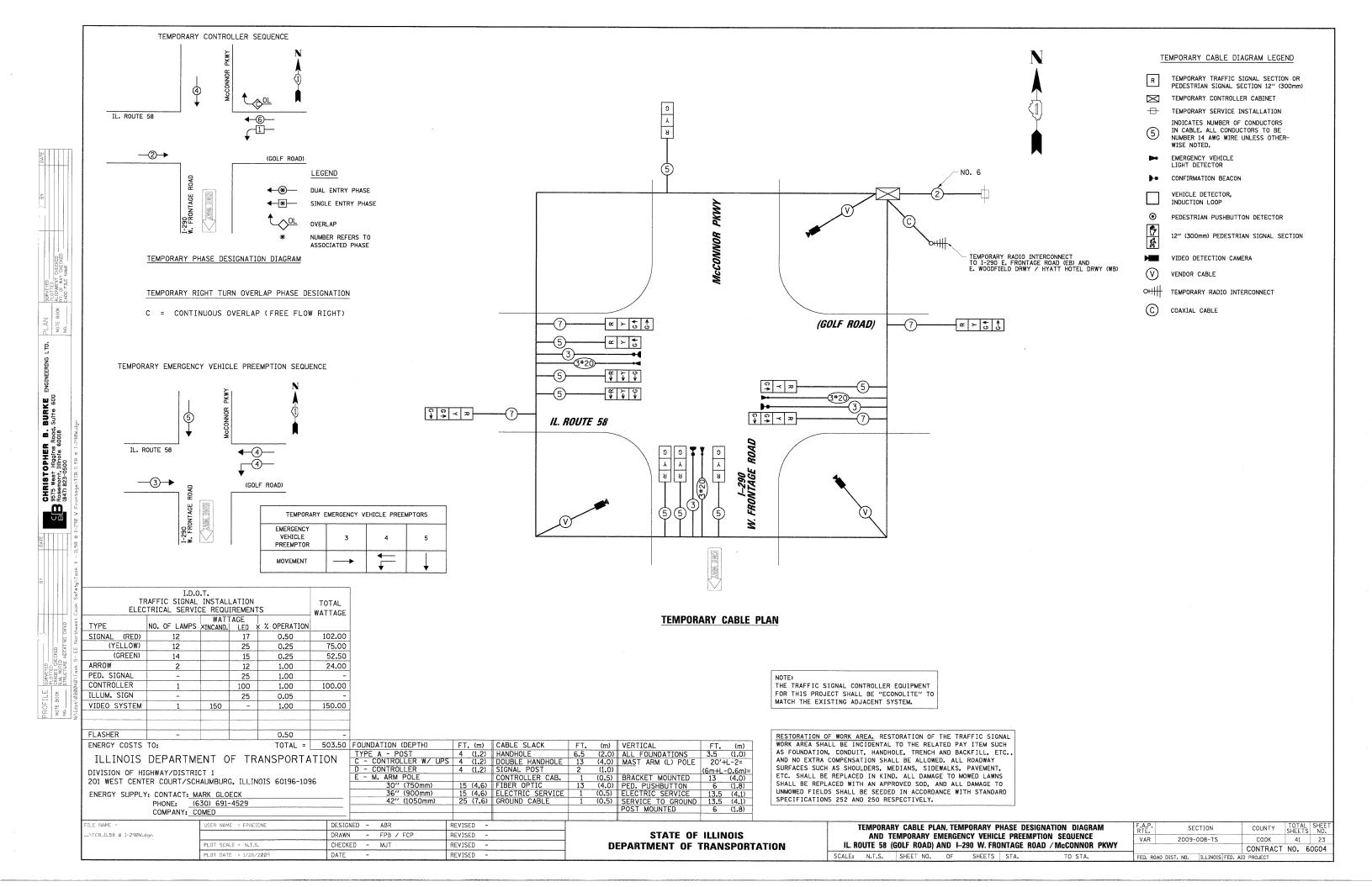


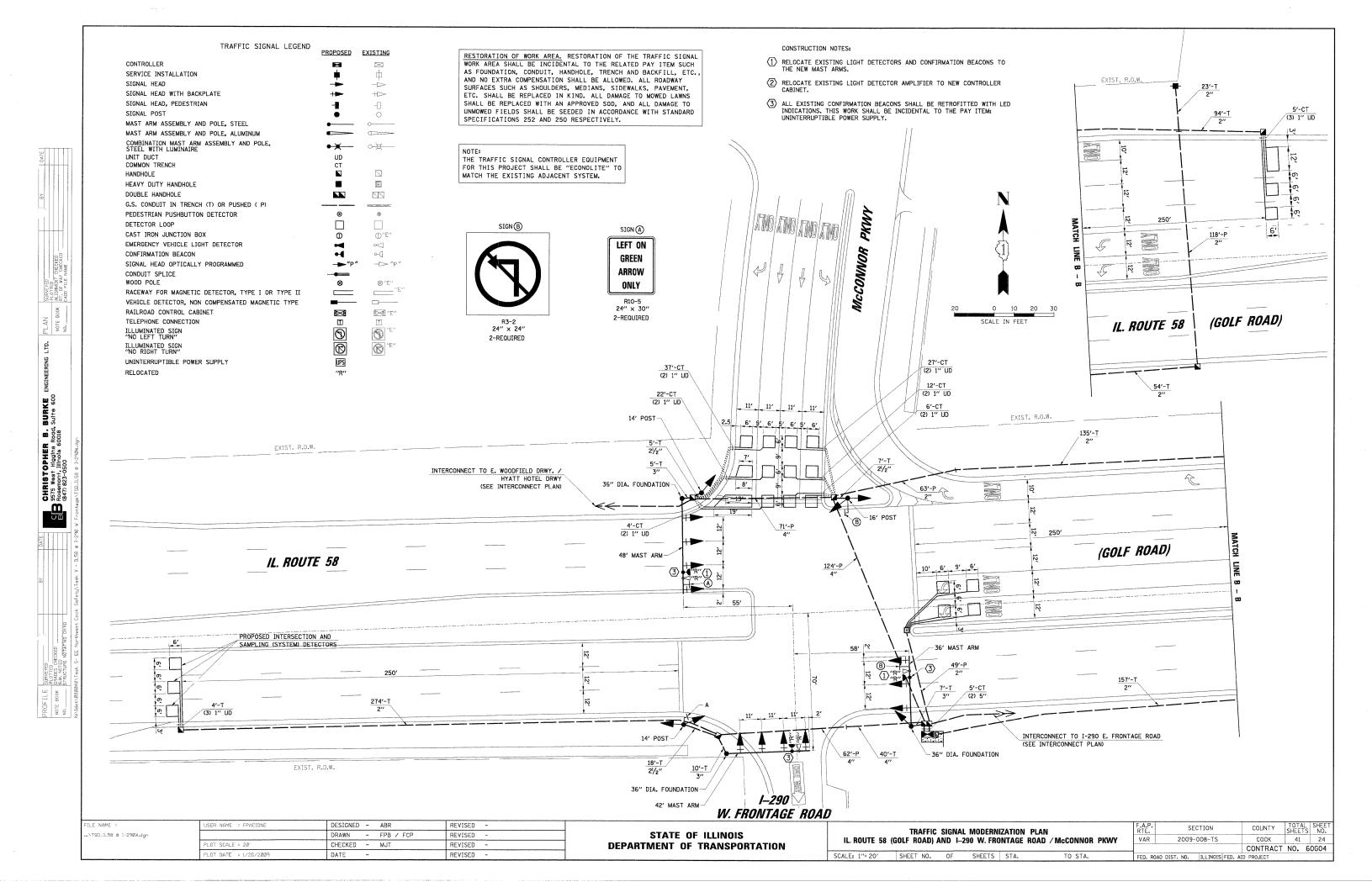


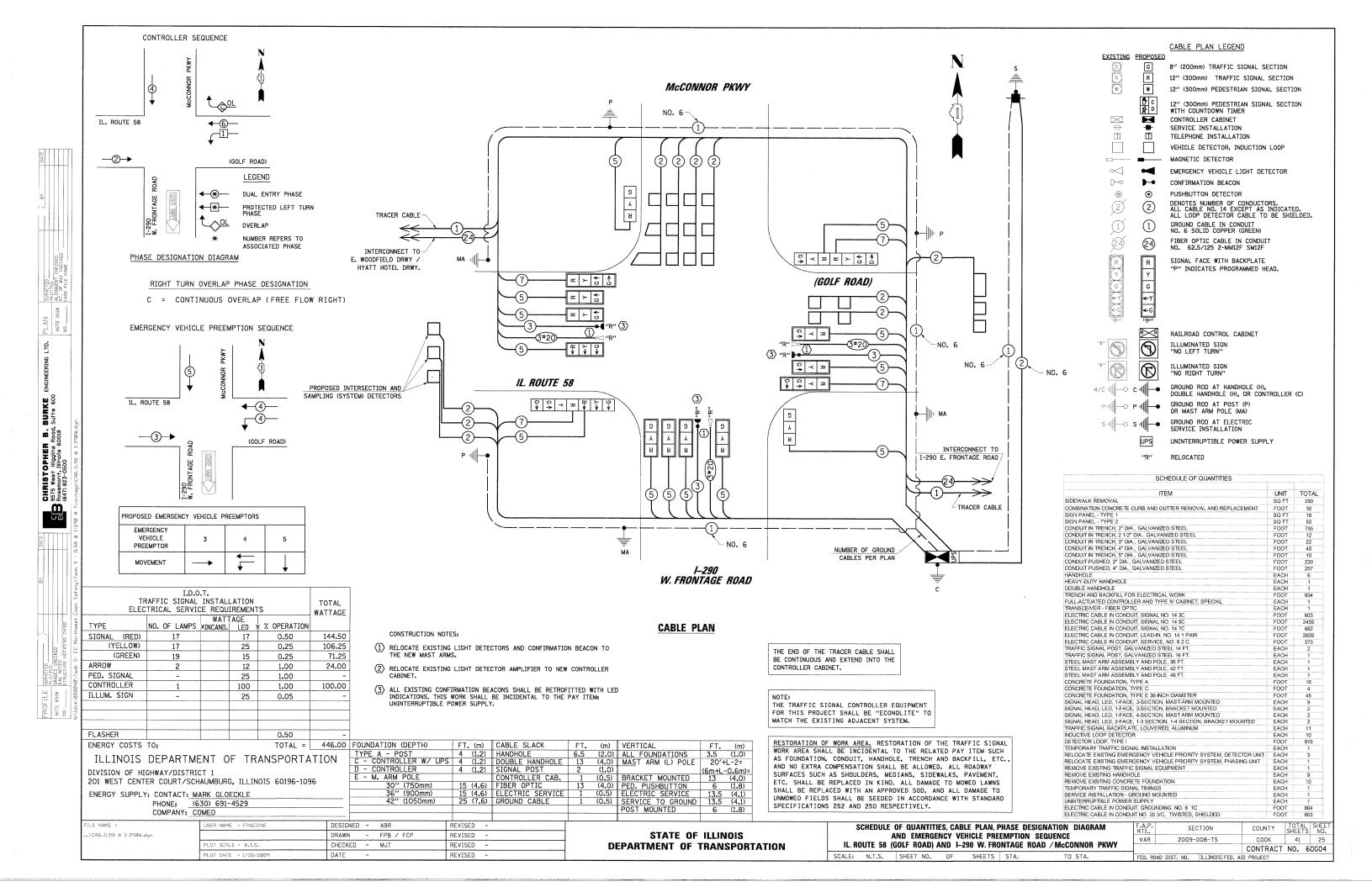


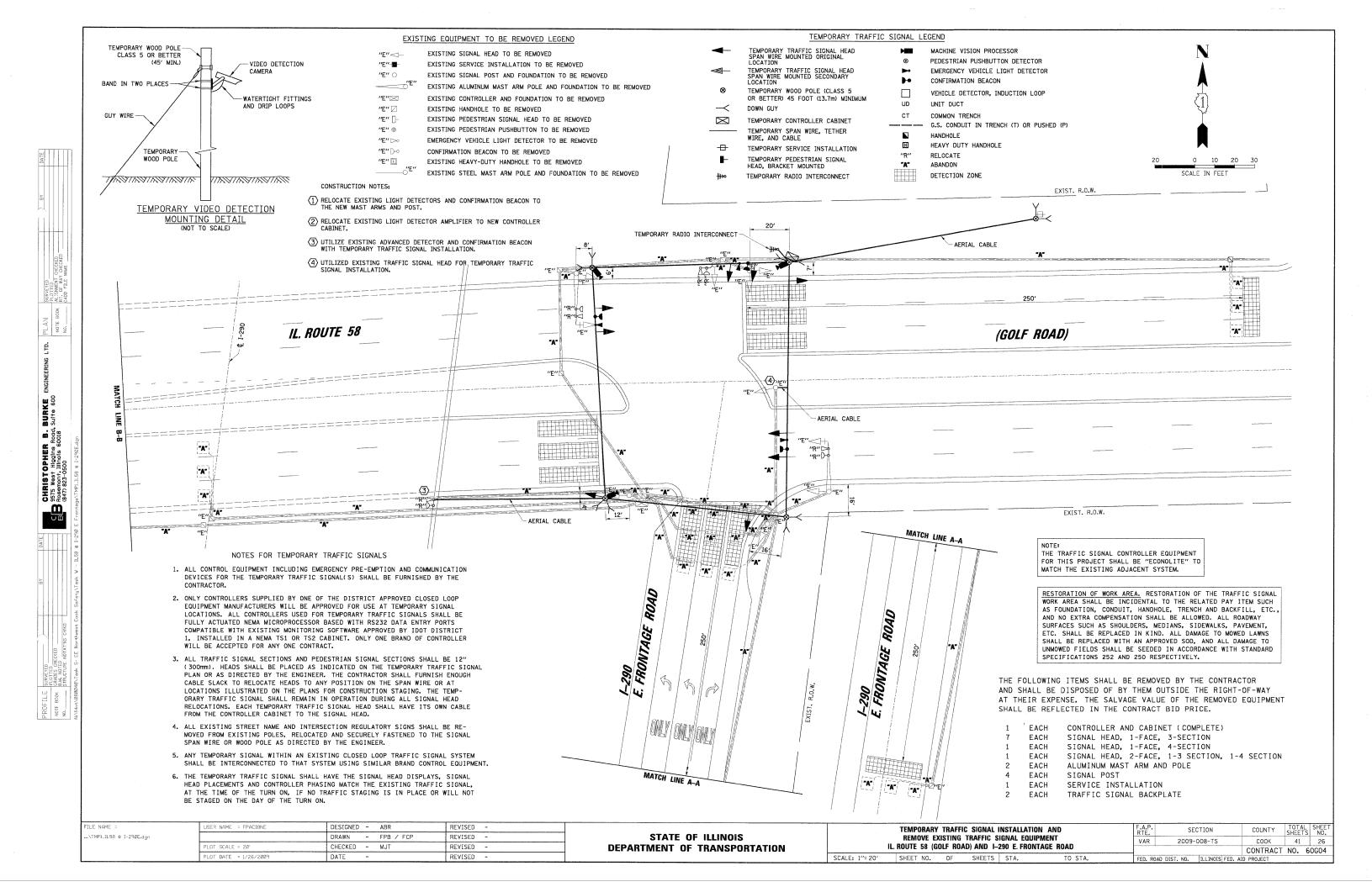


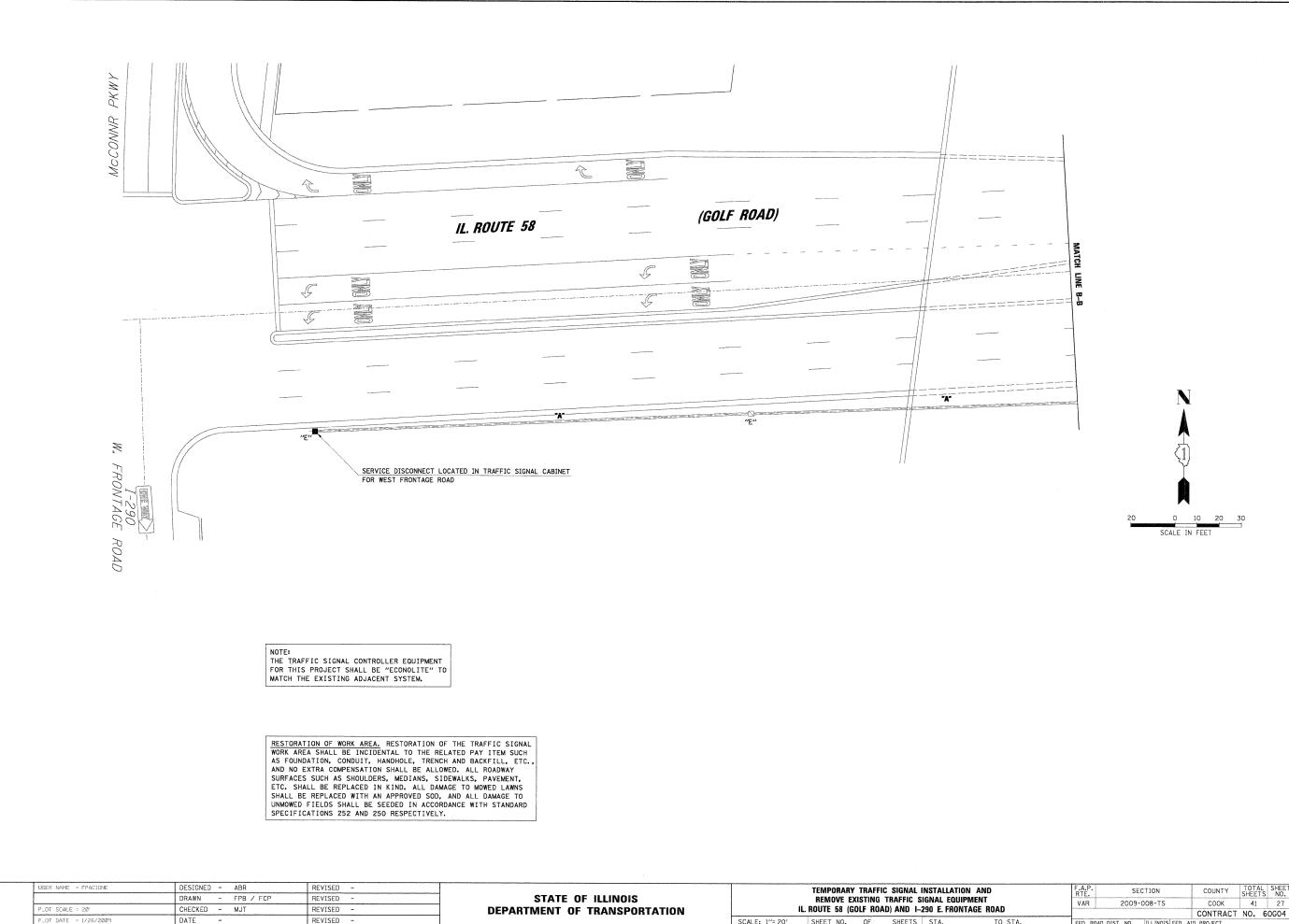










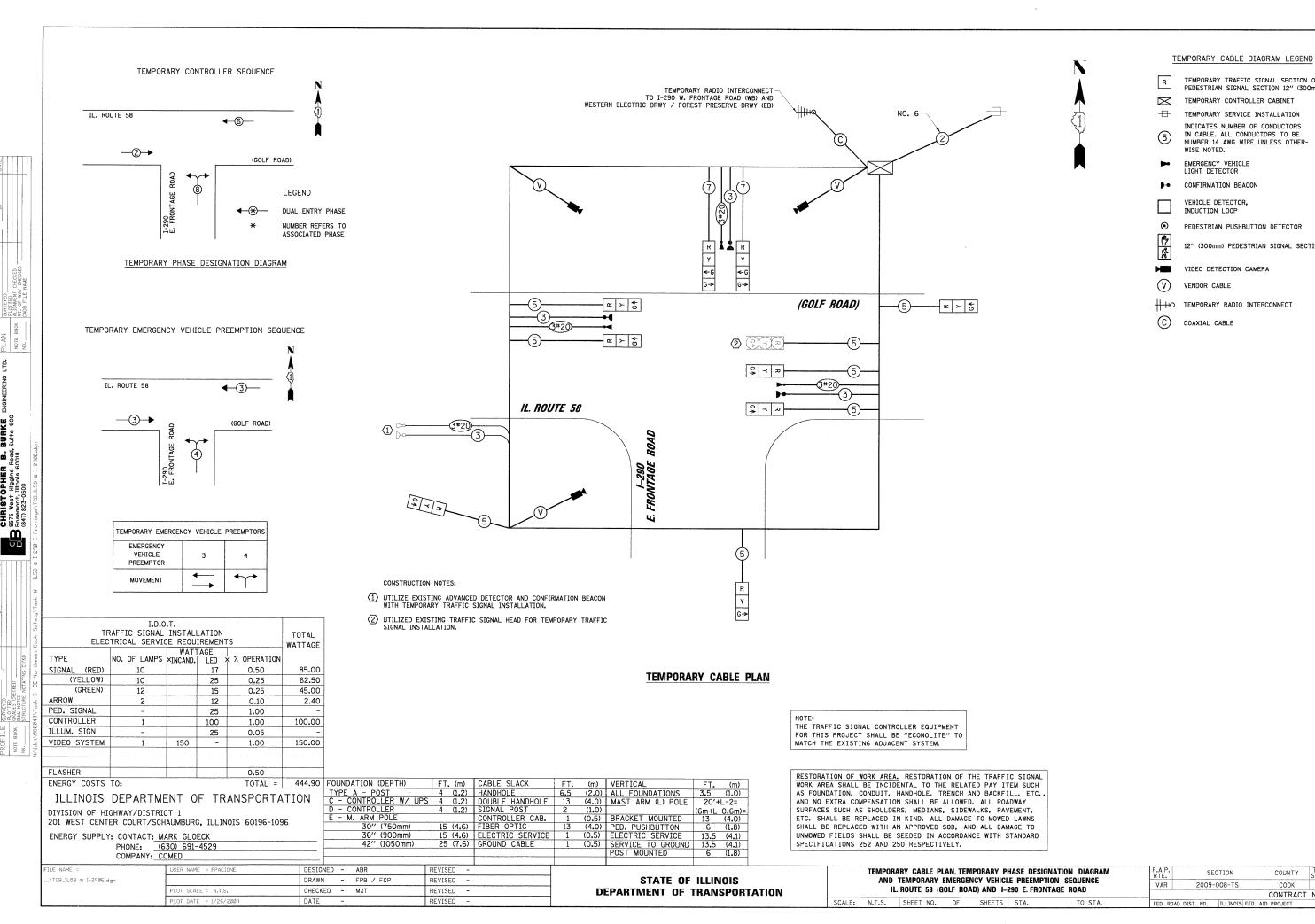


SCALE: 1"= 20' SHEET NO. OF SHEETS STA.

CHRISTOPHER B. BURKE

FILE NAME =

..\TMP2_IL58 @ I-290E.dgn



TEMPORARY TRAFFIC SIGNAL SECTION OR PEDESTRIAN SIGNAL SECTION 12" (300mm)

TEMPORARY CONTROLLER CABINET

TEMPORARY SERVICE INSTALLATION

INDICATES NUMBER OF CONDUCTORS IN CABLE. ALL CONDUCTORS TO BE NUMBER 14 AWG WIRE UNLESS OTHER-

PEDESTRIAN PUSHBUTTON DETECTOR

12" (300mm) PEDESTRIAN SIGNAL SECTION

EMERGENCY VEHICLE LIGHT DETECTOR

VEHICLE DETECTOR,

VIDEO DETECTION CAMERA

SECTION

2009-008-TS

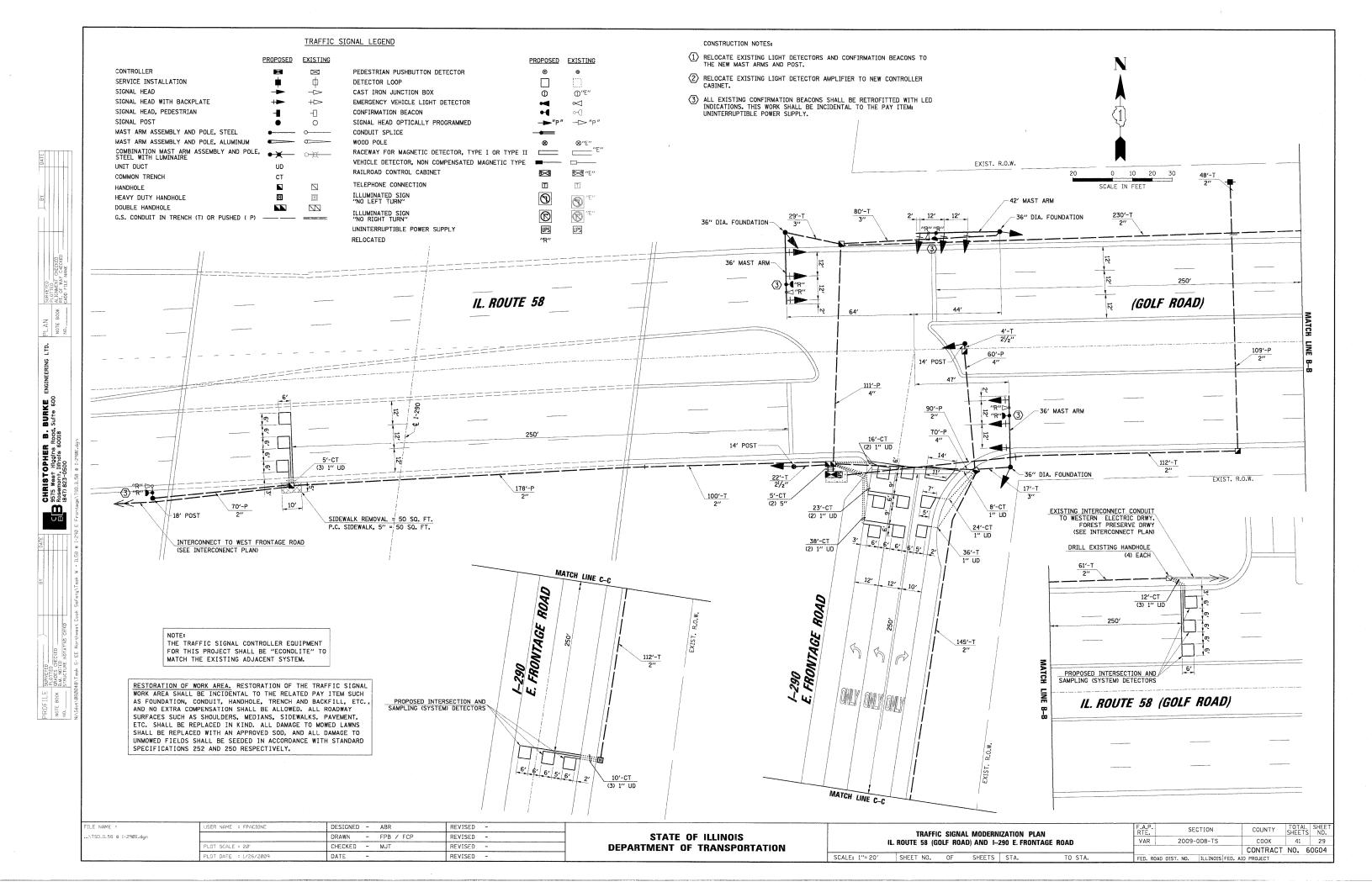
COUNTY | TOTAL SHEE

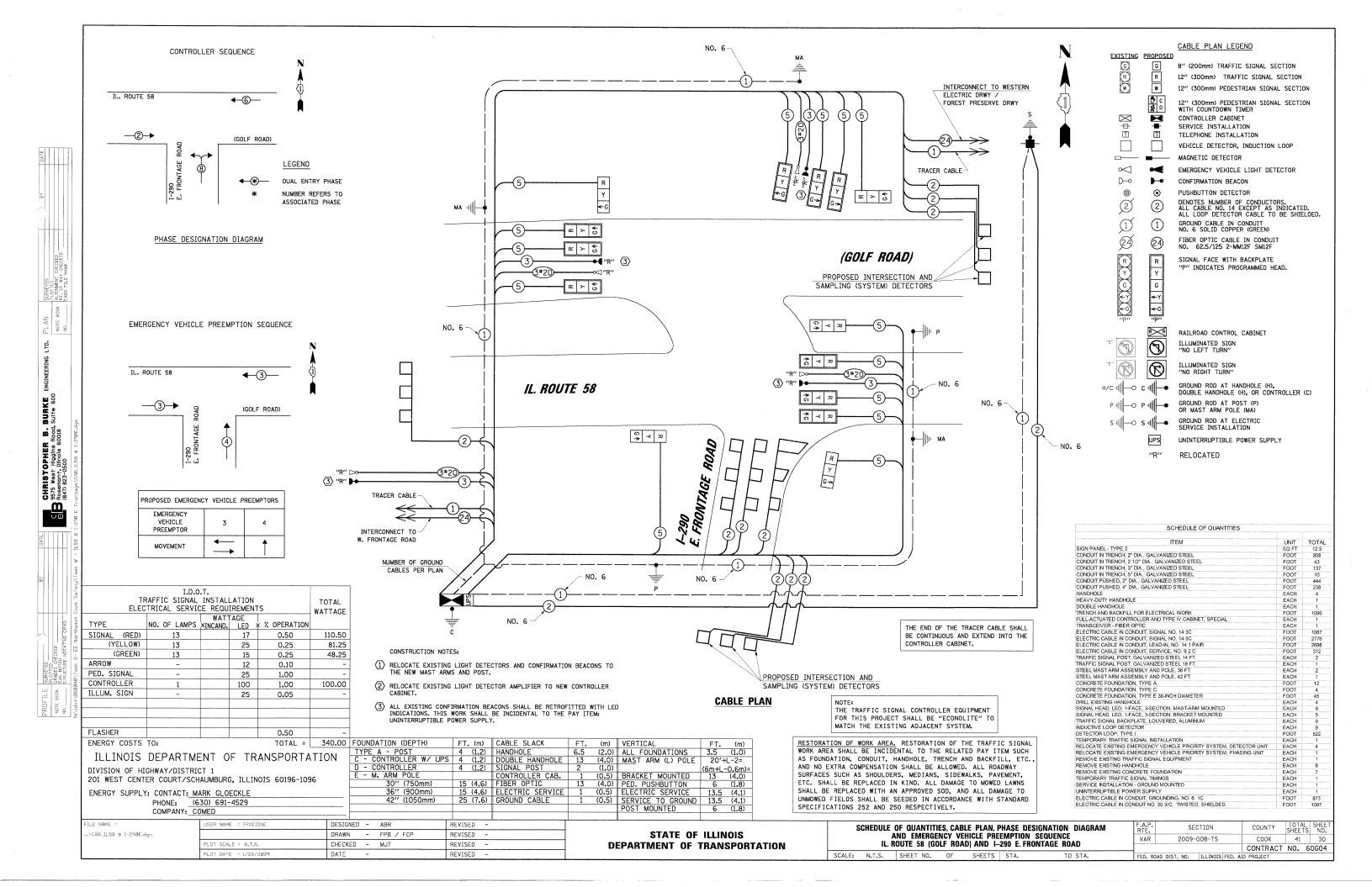
CONTRACT NO. 60G04

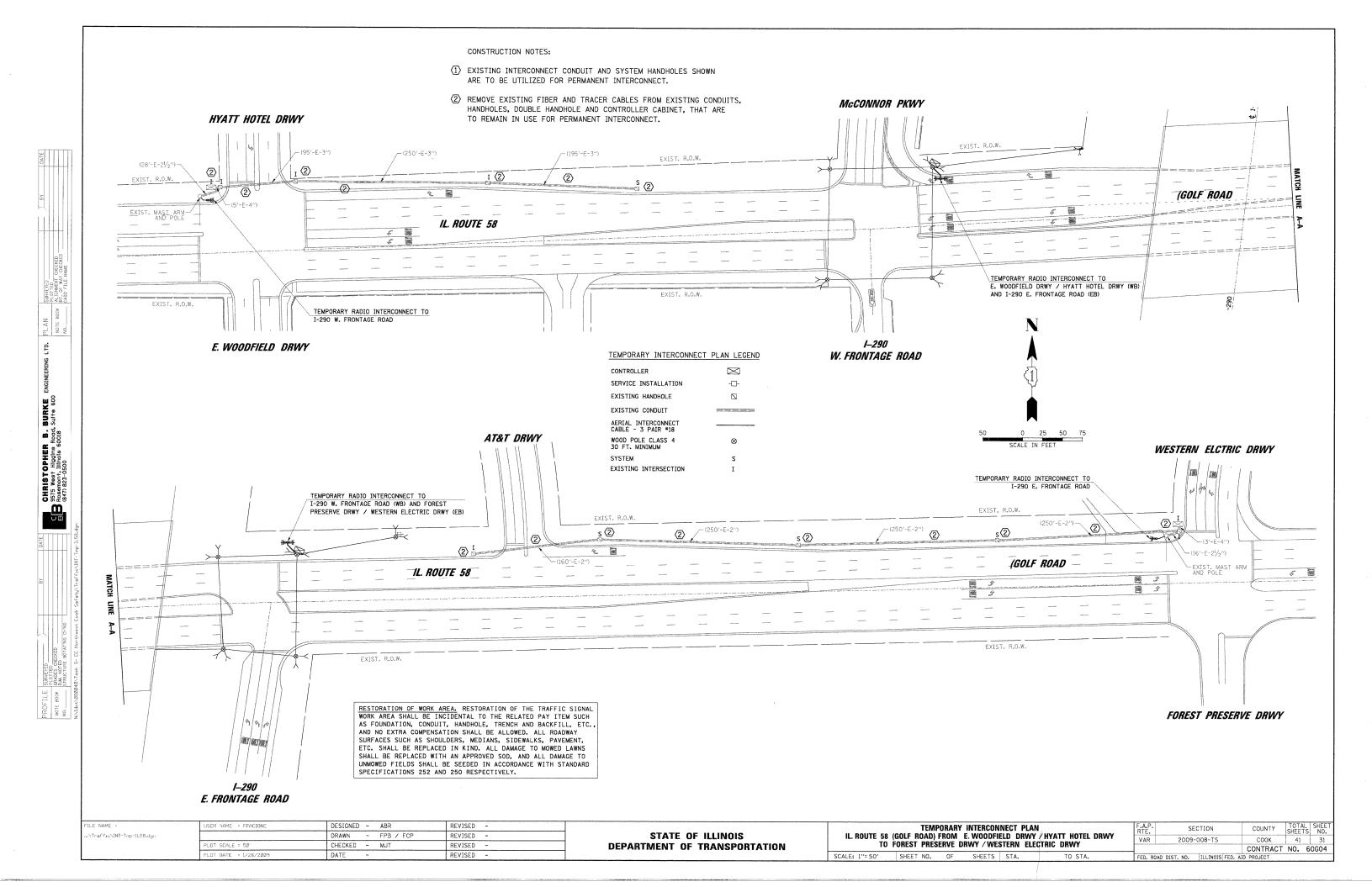
COOK

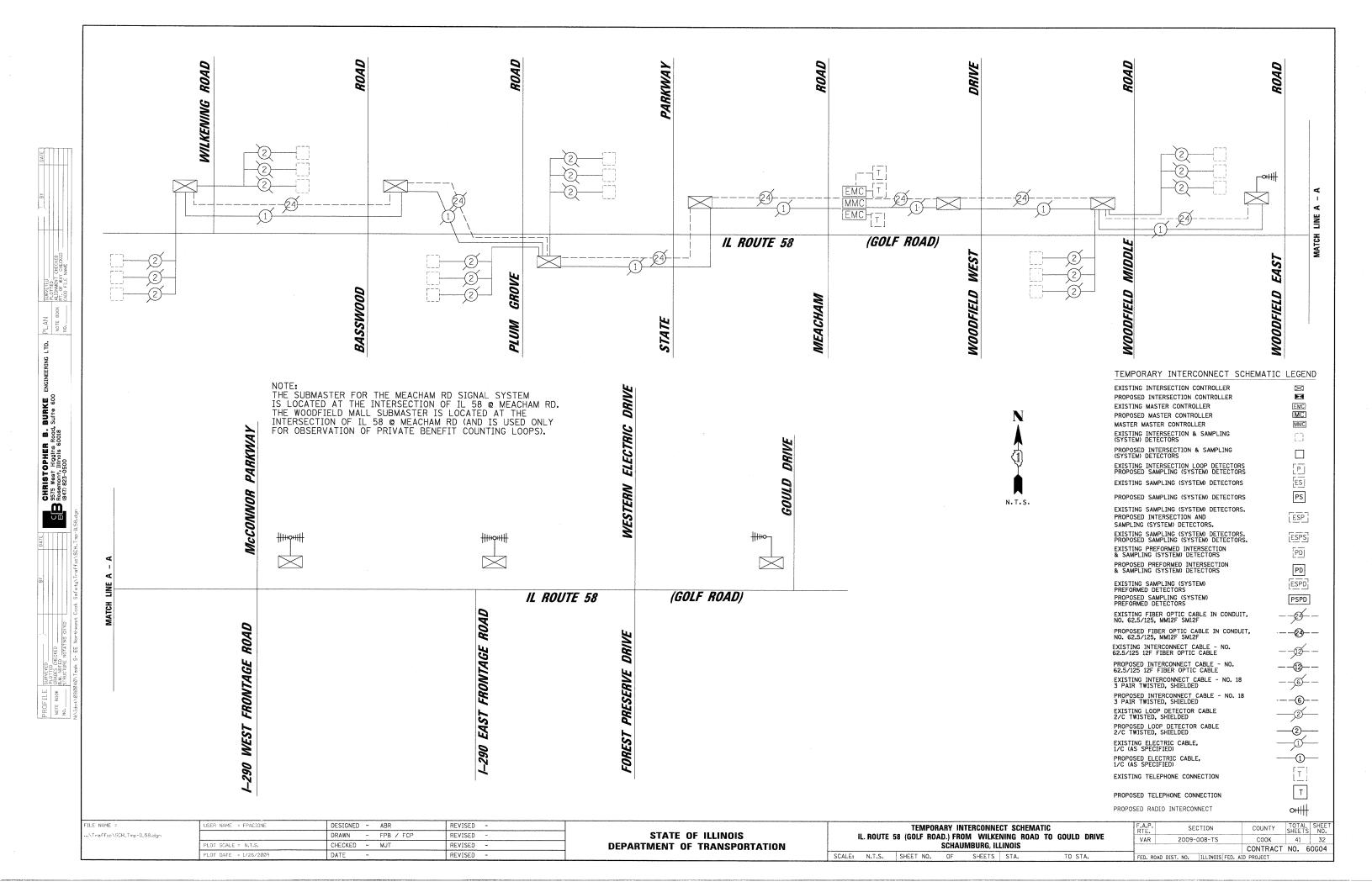
INDUCTION LOOP

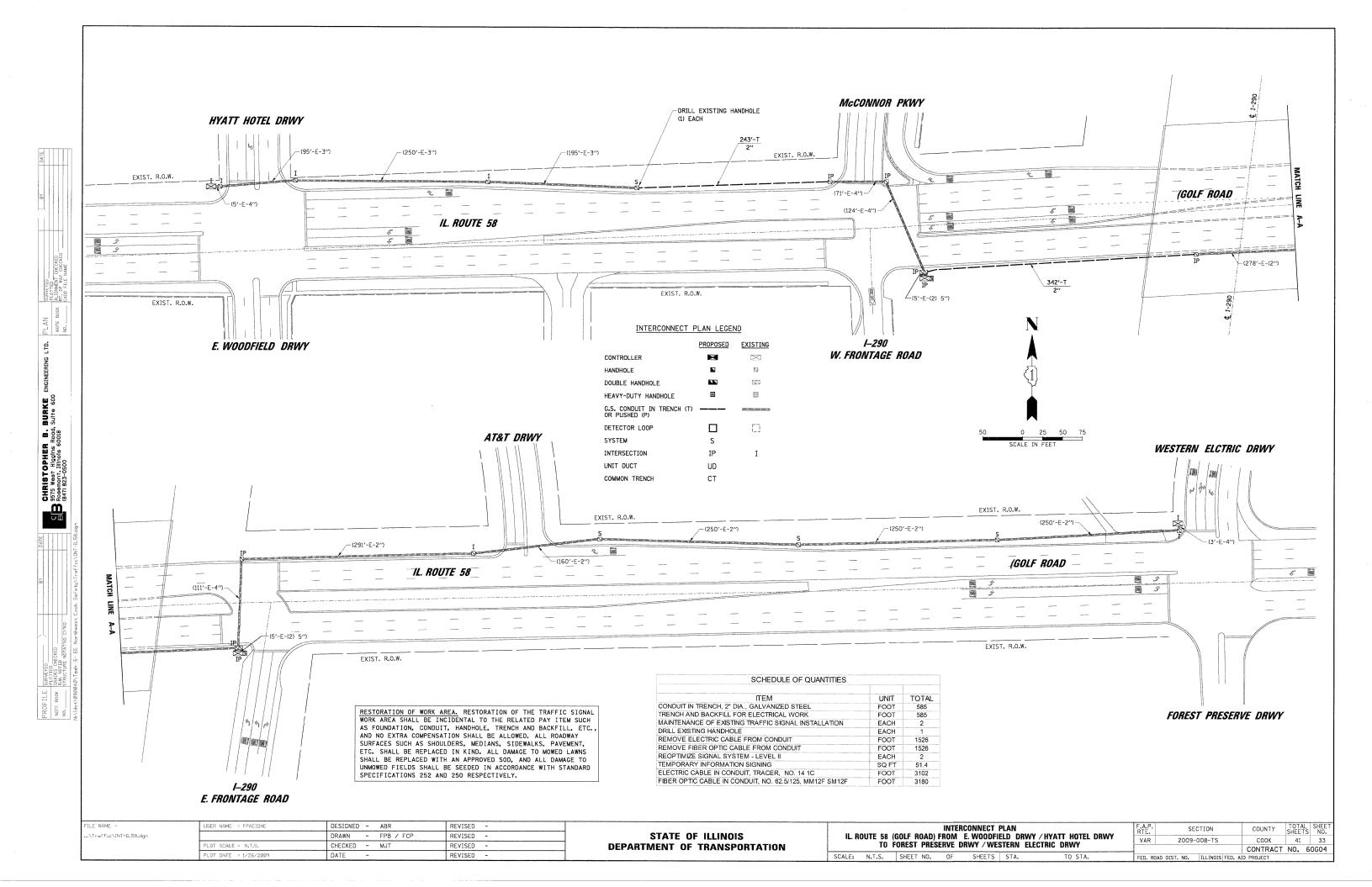
VENDOR CABLE

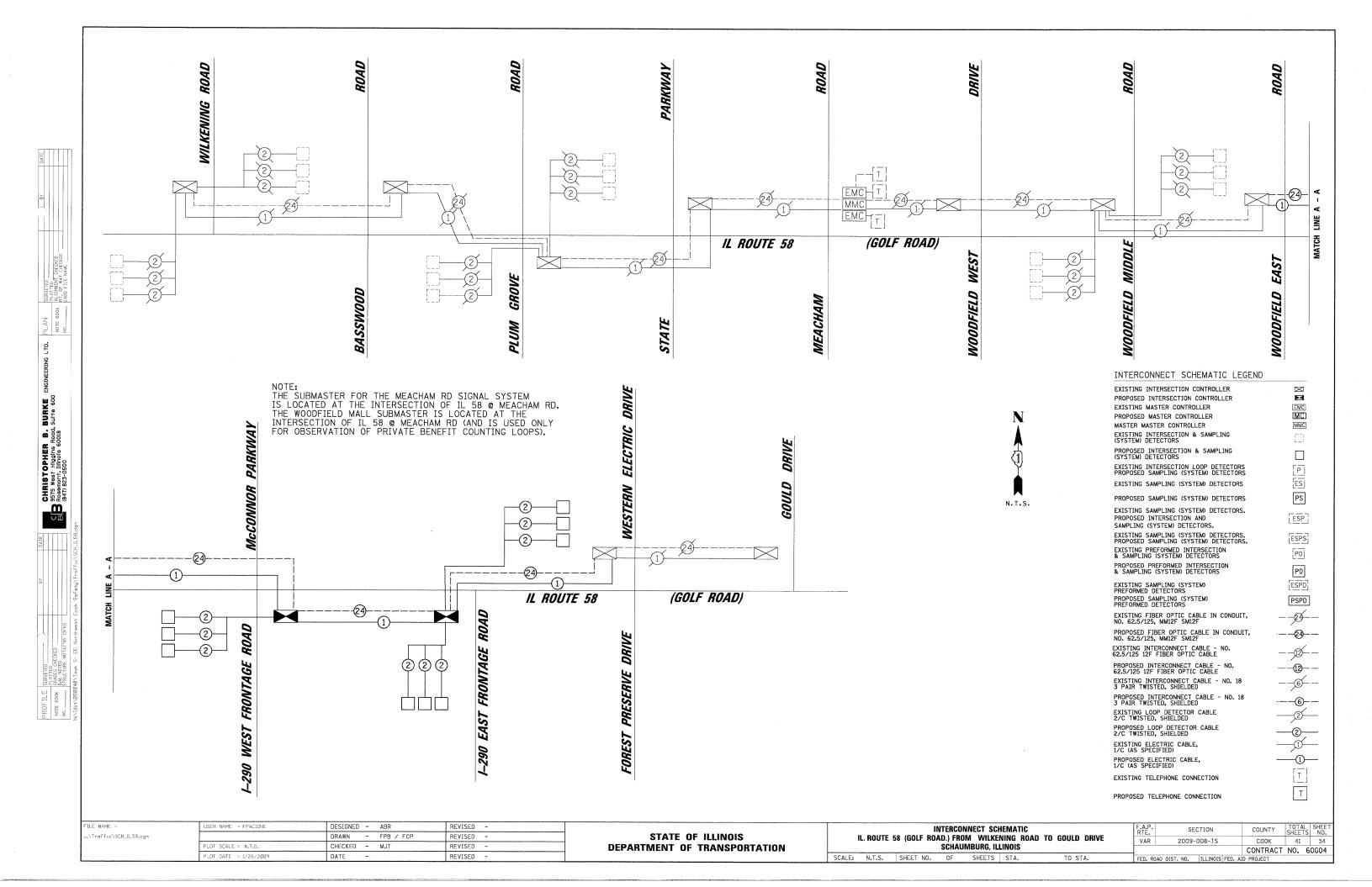


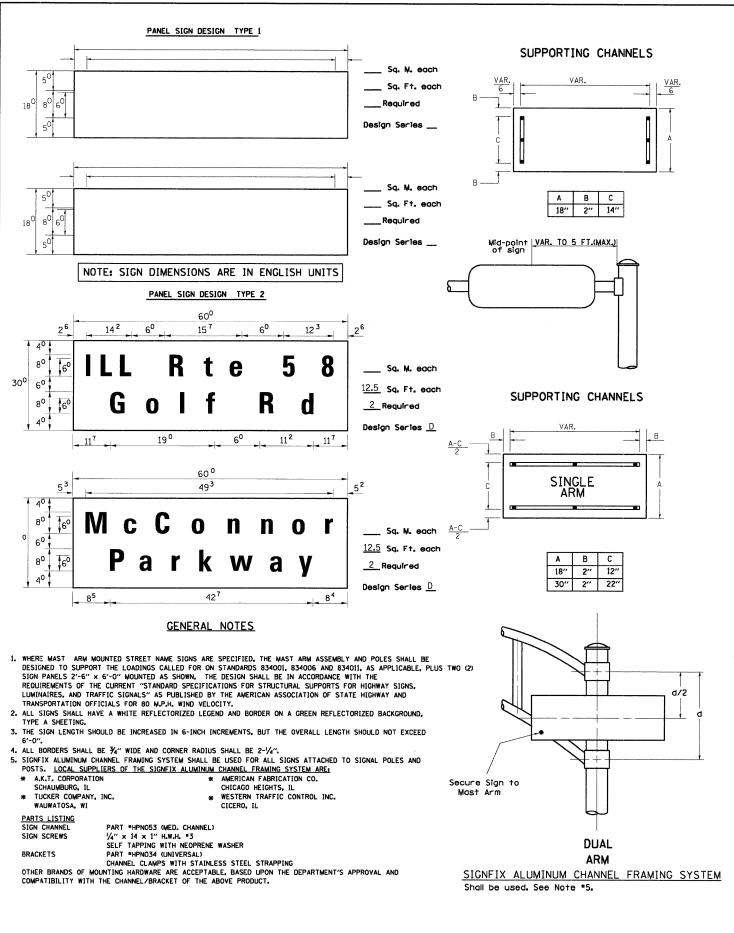












Upper Case to Lower Case

Spacing Chart 8-6 Inch Series "C & D"

EXAMPLE, 2^{3} DENOTES $\frac{3}{8}$

UPPER AND LOWER CASE LETTER WIDTHS

		SECOND LETTER														
		d e o q	b h m n i		f	w		j		†	٧	У	×		z	
SERIES	С	D	С	D	С	D	С	D	С	D	С	D	С	D	С	D
A W X	12	14	14	15	12	14	06	10	11	14	06	10	11	12	12	14
В	14	15	20	21	14	15	11	12	14	15	12	14	12	14	16	17
CEG	14	15	20	21	12	14	06	10	12	14	12	14	14	15	14	15
D 0 0 R	14	15	20	21	14	15	06	10	12	14	12	14	14	15	14	15
F	05	06	14	15	Oe	10	05	06	06	10	06	10	06	10	11	12
HIMN	20	21	22	24	20	2 ¹	14	15	16	17	16	17	20	21	20	21
JU	2 0	21	20	21	16	17	14	15	16	17	16	17	16	17	20	21
K L	11	12	16	17	11	12	05	06	11	12	11	12	11	12	12	14
Р	12	14	14	15	12	14	05	06	11	12	11	12	12	14	12	14
S	12	14	16	17	12	14	06	10	12	14	12	14	12	14	12	14
T	11	12	16	17	06	10	06	10	1 ¹	12	11	12	11	12	12	14
٧	06	10	14	15	11	12	06	10	12	14	12	14	12	14	12	14
Υ	05	06	14	15	06	10	05	06	05	07	05	06	06	10	11	12
Z	16	17	22	24	16	17	12	14	16	17	16	17	16	17	20	21

Lower Case to Lower Case

Spacing Chart 6 Inch Series "C & D"

							SE	CO	ND	LET	TEF	₹					
			d e	b h m n i		f	w		i	s	†	V	У	,	<	;	Z
	SERIES	C	Ω	С	D	С	D	С	D	С	D	С	D	С	D	С	D
FIRST	adhgij Imnqu	16	17	22	24	16	17	12	14	14	15	14	15	16	17	16	17
Š	bfkops	12	14	16	17	11	12	05	06	1 ¹	12	11	12	12	14	12	14
T	се	12	14	16	17	12	14	06	10	12	14	12	14	12	14	12	14
E	г	06	10	12	14	06	10	03	03	05	06	05	06	06	10	06	10
JEIT-ER	† Z	12	14	16	17	12	14	06	10	11	12	11	12	12	14	12	14
Ė	νу	11	12	14	15	11	12	05	06	06	10	06	10	11	12	11	12
"	w	11	12	14	15	11	12	05	06	11	12	11	12	11	12	12	14
	×	12	14	16	17	11	12	05	06	11	12	11	12	11	12	12	14

Number to Number Spacing Chart 8 Inch Series "C & D"

			L							SE	CO	ND	NL	ΙMΒ	ER							
				0		1	2	2	-	3	-	4	į	 5	(5	-	7		3	9	9
	SE	RIES	C	D	C	D	C	D	С	D	С	D	С	D	С	D	С	D	С	D	С	D
F	0	9	16	17	16	17	14	15	12	14	14	15	14	1 ⁵	16	17	12	14	16	17	16	17
R	1		20	2	20	21	20	21	16	17	14	15	20	21	20	21	14	15	20	21	20	21
T	2	3 4	14	15	14	15	14	15	12	14	12	14	14	15	14	15	11	12	16	17	14	15
N	5		14	15	14	15	14	15	11	12	11	12	14	15	14	15	11	12	14	15	14	15
₩ B	6		16	17	14	15	14	15	12	15	12	14	14	15	14	15	11	12	14	15	14	15
E R	7		12	14	12	14	14	1 ⁵	12	15	05	06	12	14	14	15	11	12	14	15	12	14
	8		16	17	16	17	14	15	12	15	12	14	14	1 ⁵	16	17	12	14	16	17	14	15

L E T		UPPER		H UPPER LETTERS	L E T		LOWER
E T E R S	SER	RIES	SE	RIES	E T E R S	SEI	RIES
R S	С	D	С	D	R S	С	D
A	36	50	50	6 ⁵	a	35	42
В	32	40	43	53	р	3 ⁵	42
С	32	40	43	53	С	35	41
D	32	40	43	53	d	35	42
Ε	30	35	40	47	е	35	42
F	30	35	40	47	f	2 3	26
G	32	40	4 3	53	g	35	42
Н	3 ²	40	43	53	h	35	42
I	07	07	11	12	t	11	11
J	30	36	40	50	I	20	22
К	32	41	43	54	k	35	42
L	30	35	40	47	I	11	11
M	3 7	45	51	61	m	60	70
N	32	40	43	5 3	n	35	42
0	34	42	45	5 ⁵	0	36	43
Р	32	40	43	53	P	35	42
0	34	42	45	55	q	35	42
R	32	40	43	53	r	26	32
s	32	40	43	53	s	36	42
Т	30	35	40	47	+	27	32
U	32	40	43	53	U	35	42
ν	35	44	47	60	٧	42	47
w	44	52	60	70	w	55	64
х	34	40	45	53	×	44	5 ¹
Y	36	50	50	66	У	46	53
Z	32	40	43	53	z	36	43
L			·····				

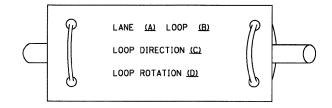
U.	6 INCH	SERIES	8 INCH	SERIES
NU _{MBER}	С	D	С	D
1	12	14	15	20
2	32	40	43	53
3	32	40	43	53
4	35	43	47	57
5	32	40	43	53
6	32	40	43	53
7	32	40	43	53
8	32	40	43	53
9	3 ²	40	43	53
0	34	42	45	55

FILE NAME =	USER NAME = gaglianobt	DESIGNED -	REVISED - DAZ/DAG 11-90		DIGTRICT CALL	F.A.P. SECTION	COUNTY TOTAL SHEET SHEETS NO.
W:\diststd\22x34\tsØ2.dgn		DRAWN - T.J.R.	REVISED - 06-98	STATE OF ILLINOIS	DISTRICT ONE	VAR 2009-008-TS	COOK 41 35
	PLOT SCALE = 50.0000 '/ IN.	CHECKED - R.F.K.	REVISED - 10-01-00	DEPARTMENT OF TRANSPORTATION	MAST ARM MOUNTED STREET NAME SIGNS	TS-02	CONTRACT NO. 60G04
	PLOT DATE = 1/4/2008	DATE - 02-79	REVISED -		SCALE: SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. A	

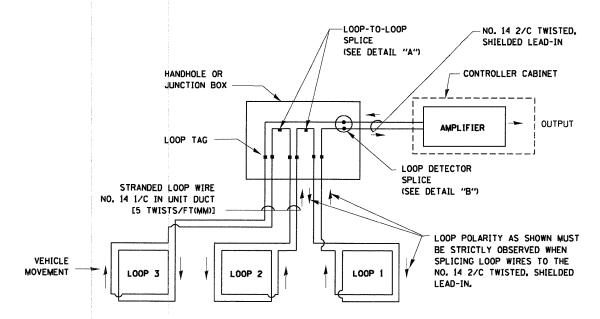
LOOP DETECTOR NOTES

- 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.
- 2. 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

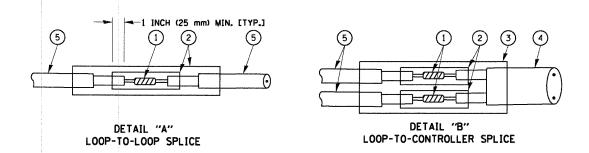


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP *1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.



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.



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.

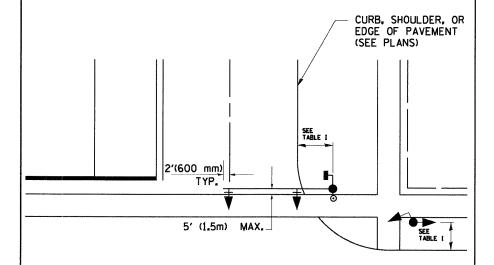
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1	W:\diststd\22x34\tsØ6.dgn		DRAWN	-	R.W.P.	REVISED	- BUR. TRAFFIC 01-01-02
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L		PLOT DATE ≈ 1/4/2008	DATE	-	05-30-00	REVISED	-

STATE	0F	ILLINOIS	
DEPARTMENT ()F	TRANSPORTATION	

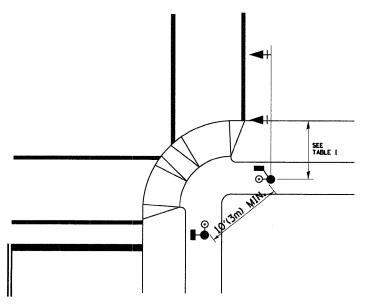
٦	***************************************	DISTRICT ON	IE	· · · · · · · · · · · · · · · · · · ·	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEE NO.
		STANDARD TRAFFIC SIGNAL	DECICN D	TAHE	VAR	2009-008-TS	COOK	41	36
i		SIMIDAND INAFFIC SIGNAL		T\$05	CONTRACT	NO.600	304		
	SCALE: NONE	SHEET NO. 1 OF 4 SHEETS	FED. ROAL	D DIST. NO. 1 ILLINOIS FED.	AID PROJECT				

TRAFFIC SIGNAL MAST ARM AND POST

MAST ARM MOUNTED SIGNAL IN PROPOSED & FUTURE SIDEWALK AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNAL AND PUSHBUTTON DETECTOR



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.

NOTES:

 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
- 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 POST

PEDESTRIAN SIGNAL HEAD AND PEDESTRIAN PUSHBUTTON DETECTOR LOCATION

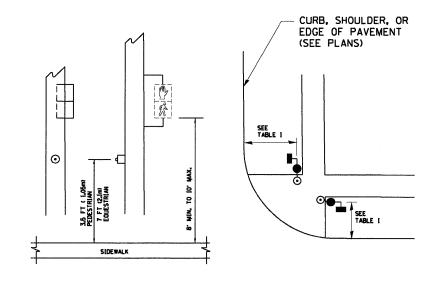


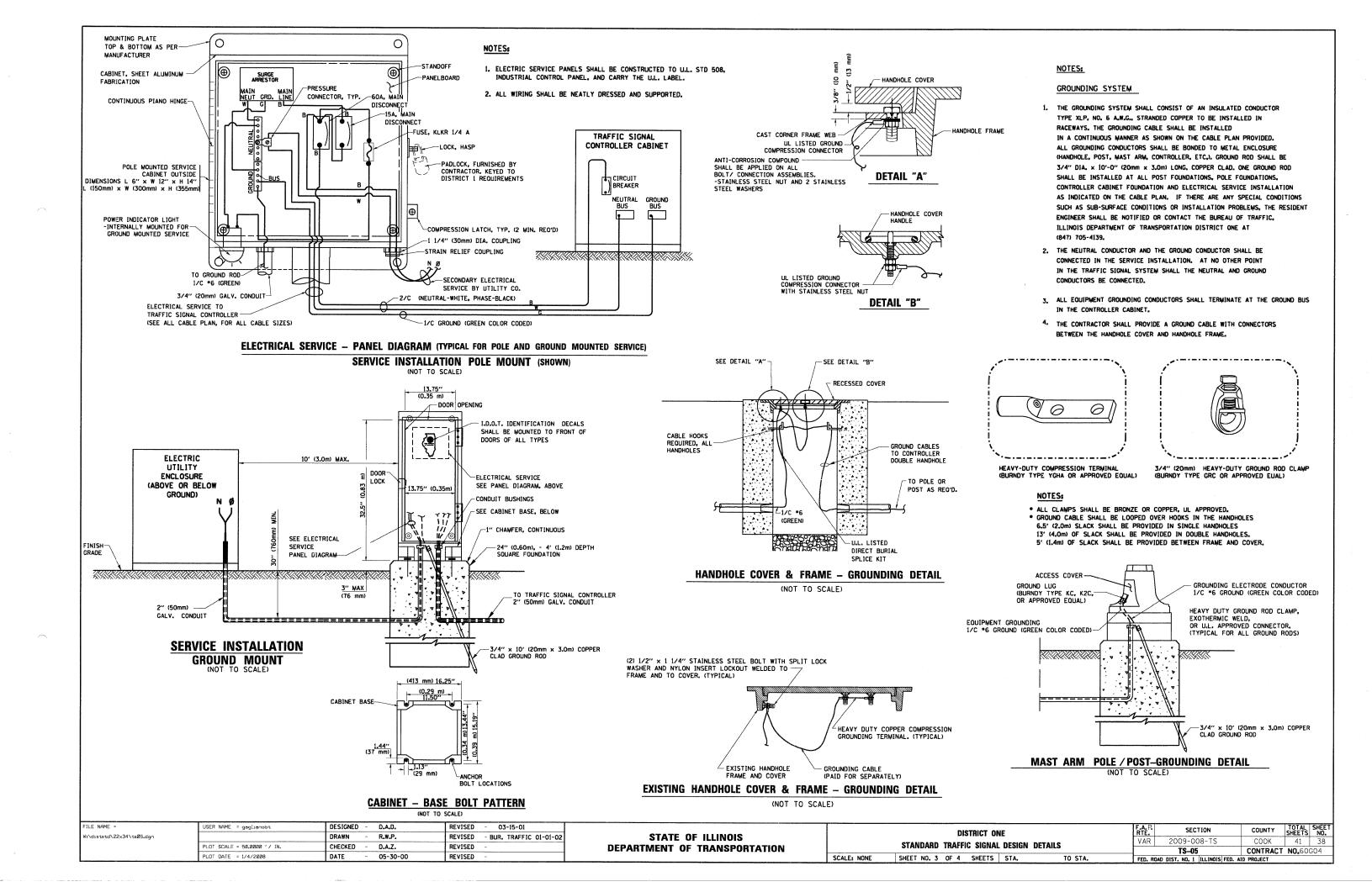
TABLE I

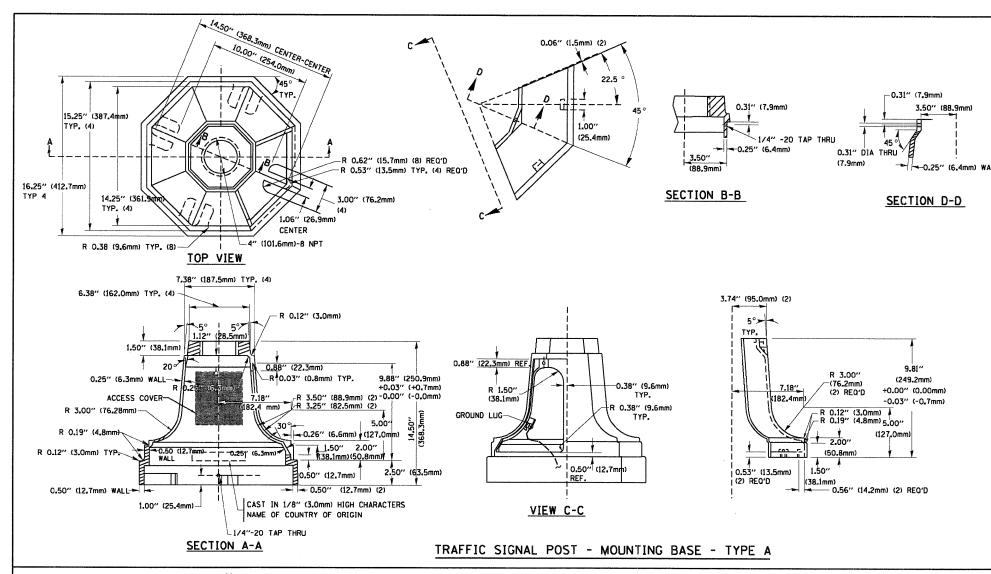
TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MIN. DIST. FROM BACK OF CURB)	SHOULDER/NON-CURBED AREA (MIN. DIST. FROM EDGE OF PAVEMENT)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2FT(0.6m), MINIMUM 10FT(3.0m)
TRAFFIC SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2FT(0.6m),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

L			
FILE NAME =	USER NAME = gaglianobt	DESIGNED - D.A.D.	REVISED - BUR, TRAFFIC 01-01-02
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	PLOT SCALE = 50.0000 '/ IN.	CHECKED - D.A.Z.	REVISED -
	PLOT DATE = 1/4/2008	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

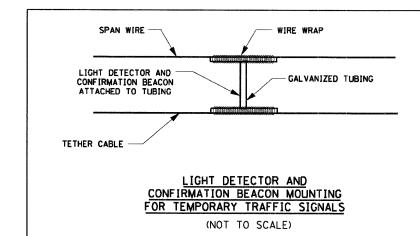
		DIS	TRICT ON	ΙE		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	STANDARD	TOACCI	C SIGNAL	DECICN	DETAILS	VAR	2009-008-TS	COOK	41	37
	SIANDAND	INALL	. SIGIVAL	DESIGN	DETAILS		TS-05	CONTRACT	NO.600	G04
SCALE: NONE	SHEET NO. 2	OF 4	SHEETS	STA.	TO STA.	FED. RO	AD DIST. NO. 1 ILLINOIS FED. A	ID PROJECT		



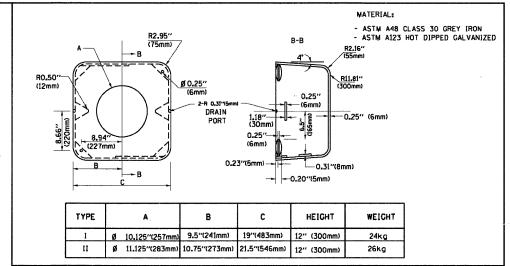


NOTES:

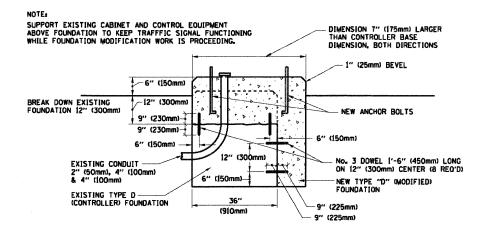
- ALL ELECTRICAL ITEMS, EXCEPT ITEMS *2 AND *11 SHALL BE ALUMINUM OR GALVANIZED
- 2. ITEM *1- OZ/GEDNEY FSX-1-50 OR EQUIVALENT
 ITEM *2- MULBERRY CON-0-SHADE LAMP SHIELD OR EQUIVALENT
 ITEM *9- "BAND-IT" SADDLE BRACKET OR EQUIVALENT
- 3. WHEN POST MOUNTING IS SPECIFIED, ITEM *9 SHALL NOT BE REQUIRED. THE DETECTION UNIT SHALL BE MOUNTED DIRECTLY ON TOP OF THE CAP BY DRILLING AND TAPPING A \(\frac{1}{2}''(19 mm) HOLE WITH PIPE THREADS. THE POST CAP SHALL EITHER BE SCREWED TO THE TOP OF THE POST OR A MINIMUM OF 3 TIGHTENING SCREWS SHALL BE REQUIRED ON EACH CAP.



SCALE: NONE

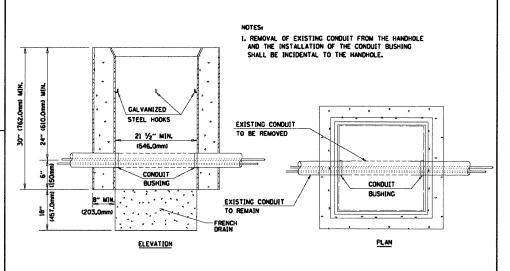


SHROUD DETAIL



MODIFY EXISTING TYPE "D" FOUNDATION

(NOT TO SCAL



HANDHOLE TO INTERCEPT EXISTING CONDUIT

3 4	8-3-93
	5 2
	6
12	
	9
N	10
POST CAP MOUNT	MAST ARM MOUNT
EMERGENCY VEHICLE DETECTOR WITH	CONFIRMATION BEACON MOUNTING DETAIL

ITEM NO.

IDENTIFICATION

REDUCING BUSHING

14"(19 mm) CLOSE NIPPLE

14"(19 mm) LOCKNUT

4"(19 mm) HOLE PLUG SADDLE BRACKET - GALV, PAR 38 LAMP

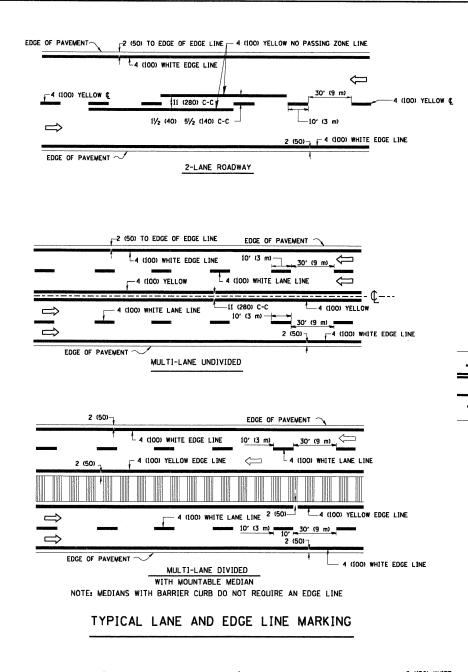
DETECTOR UNIT POST CAP [18 FT. (5.4 m) POST MIN.]

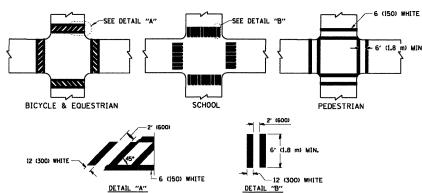
OUTLET BOX- GALV. 21 CU,IN, (0,000344 CU-M) LAMP HOLDER AND COVER OUTLET BOX COVER RUBBER COVER GASKET

FILE NAME =	USER NAME = gaglianobt	DESIGNED - D.A.D.	REVISED - BUR.TRAFFIC 03-15-01
Wi\diststd\22x34\tsØ5.dgn		DRAWN - R.W.P.	REVISED - BUR.TRAFFIC 11-12-01
	PLOT SCALE = 50.0000 '/ IN.	CHECKED - D.A.Z.	REVISED - BUR.TRAFFIC 01-01-02
l .	PLOT DATE = 1/4/2008	DATE - 05-30-00	PEVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

			DIS	STRICT ON	IE		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEE NO.
							VAR	2009-008-TS	COOK	41	39
_	STANDARD TRAFFIC SIGNAL DESIGN DETAILS							TS-05	CONTRACT	NO.60	G04
	SHEET NO. 4	OF	4	SHEETS	STA.	TO STA.	FED. RO.	AD DIST. NO. 1 ILLINOIS FED. A	ID PROJECT		





TYPICAL CROSSWALK MARKING

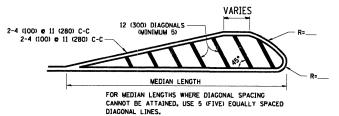
2-4 (100) YELLOW • 11 (280) C-C

NO DIAGONALS

4' (1,2 m) OUTSIDE TO OUTSIDE OF LINES

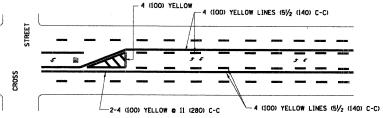
2-4 (100) YELLOW • 11 (280) C-C

4' (1.2 m) WIDE MEDIANS ONLY

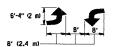


DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))
75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h))
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

MEDIANS OVER 4' (1.2 m) WIDE

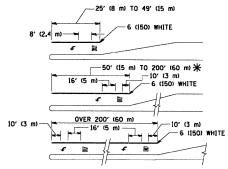


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR.
ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING



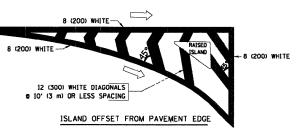
FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.

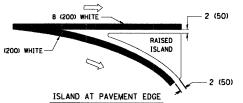
† AREA = 15.6 SQ. FT. (1.5 m²) DNLY AREA = 20.8 SQ. FT. (1.9 m²)

* 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





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 8 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 e 4 (100)	SOLID SOLID	YELLOW YELLOW	5½ (140) C-C FROM SKIP-DASH CENTERLINE 11 1280) C-C ONIT 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' (GOO) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOL 1D	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 0 4 (100) EACH DIRECTION	SKIP-DASH AND SOLID	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH: 51/2 (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 & EDUESTRIAN) 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' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' 11.2 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 e 4 (100) WITH 12 (300) DIAGONALS e 45° NO DIAGONALS USED FOR	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
	4' (1.2 m) WIDE MEDIANS		ONE WAT TRAFFIC	
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 0F: "R"=3.6 SQ. FT. (0.33 m²) EACH "X"=54.0 SQ. FT. (5.0 m²)
SHOULDER DIAGONALS	12 (300) e 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	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))

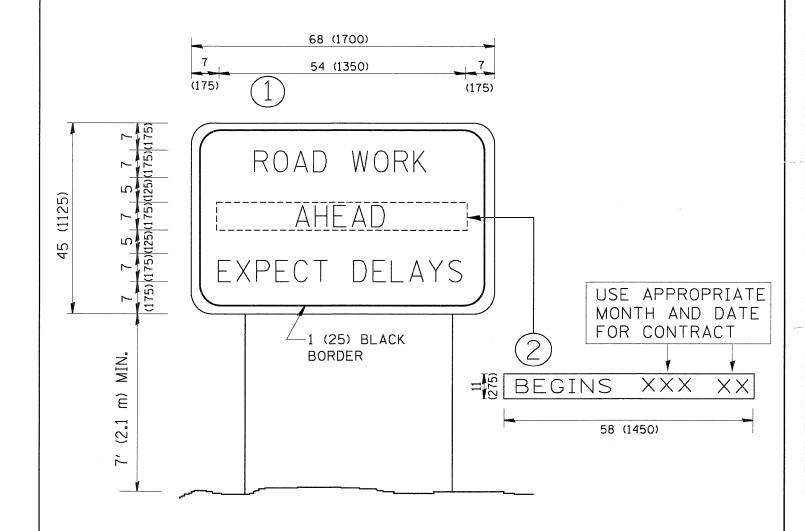
FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

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

FILE NAME =	USER NAME = gaglianobt	DESIGNED - EVERS	REVISED -T. RAMMACHER 10-	27-94
Wi\diststd\22x34\tol3.dgn		DRAWN -	REVISED -A. HOUSEH 10-09-9	36
	PLOT SCALE = 50.000 '/ IN.	CHECKED -	REVISED - A. HOUSEH 10-17-9	96
	PLOT DATE = 1/4/2008	DATE - 03-19-90	REVISED - T. RAMMACHER 01-	06-00

STATE	OF	ILLINOIS	
DEPARTMENT	0F	TRANSPORTATION	

DISTRICT ONE						F.A RTÉ.	SECTION	COUNTY	TOTAL	SHEET NO.
TYDICAL DAVEMENT MADVINCE					VAR	2009-008-TS	COOK	41	40	
TYPICAL PAVEMENT MARKINGS							TC-13	CONTRACT	NO. 6	0G04
SCALE: NONE	SHEET NO. 1	OF 1	SHEETS	STA.	TO STA.	FED. RO	AD DIST. NO. 1 ILLINOIS FED. A	D PROJECT		



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.

FILE NAME =	USER NAME = gaglianobt	DESIGNED -	REVISED - R. MIRS 09-15-97		ARTERIAL DOAD	F.A. SECTION	COUNTY TOTAL SHEET NO.
W:\diststd\22x34\to22.dgn		DRAWN -	REVISED - R. MIRS 12-11-97	STATE OF ILLINOIS	ARTERIAL ROAD	VAR 2009-008-TS	COOK 41 41
	PLOT SCALE = 50.000 '/ IN.	CHECKED -	REVISED -T. RAMMACHER 02-02-99	DEPARTMENT OF TRANSPORTATION	INFORMATION SIGN	TC-22	CONTRACT NO. 60G04
	PLOT DATE = 1/4/2008	DATE ~	REVISED - C. JUCIUS 01-31-07		SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED.	