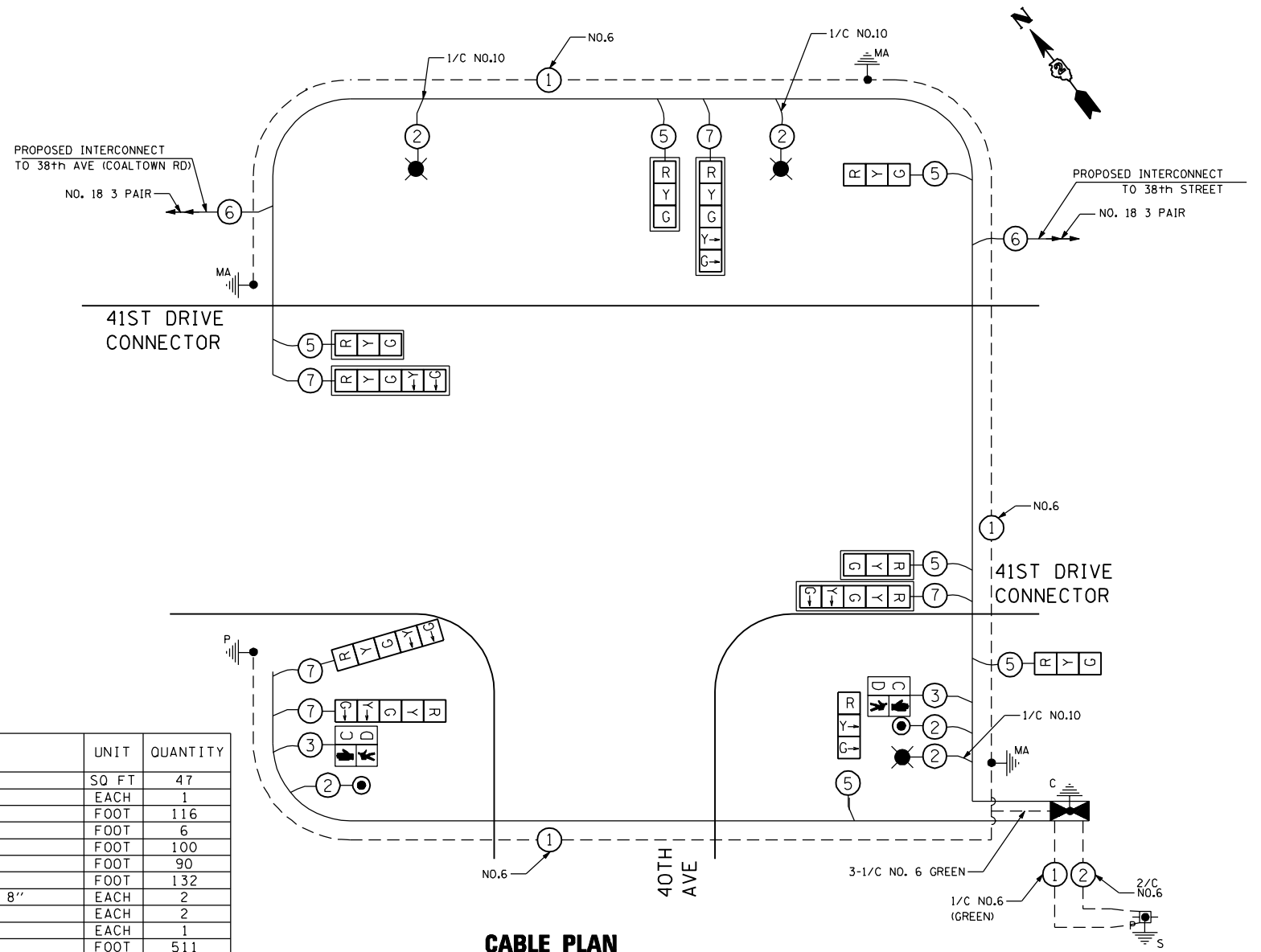


CABLE PLAN LEGEND

EXISTING	PROPOSED	
		12" (300mm) TRAFFIC SIGNAL SECTION
		12" (300mm) PEDESTRIAN SIGNAL SECTION
		PEDESTRIAN SIGNAL HEAD, INTERNATIONAL SYMBOL, WITH COUNTDOWN TIMER
		CONTROLLER CABINET
		SERVICE INSTALLATION
		VEHICLE DETECTOR, INDUCTION LOOP
		MAGNETIC DETECTOR
		EMERGENCY VEHICLE LIGHT DETECTOR
		CONFIRMATION BEACON
		PUSHBUTTON DETECTOR
		DENOTES NUMBER OF CONDUCTORS. ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED.
		SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED HEAD.
		GROUND ROD AT HANDHOLE, DOUBLE HANDHOLE, OR CONTROLLER
		GROUND ROD AT POST OR MAST ARM POLE
		GROUND ROD AT ELECTRIC SERVICE INSTALLATION
		GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)
		FIBER OPTIC CABLE IN CONDUIT NO. 62.5/125 2-MM12F & SM12F
		UNINTERRUPTIBLE POWER SUPPLY (UPS)
		PERFORMED LOOP DETECTION
		STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE



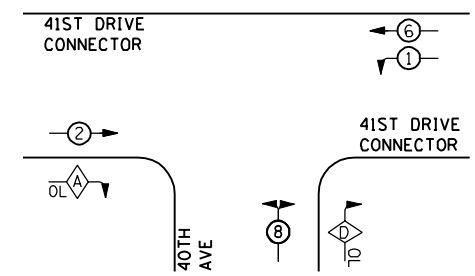
SCHEDULE OF QUANTITIES

ITEM	UNIT	QUANTITY
SIGN PANEL - TYPE 2	SQ FT	47
SERVICE INSTALLATION - POLE MOUNTED	EACH	1
UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 2" DIA.	FOOT	116
UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 2 1/2" DIA.	FOOT	6
UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 3" DIA.	FOOT	100
UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 4" DIA.	FOOT	90
CONDUIT EMBEDDED IN STRUCTURE, 2" DIA., PVC	FOOT	132
JUNCTION BOX, STAINLESS STEEL, EMBEDDED IN STRUCTURE, 12" X 12" X 8"	EACH	2
HANDHOLE, COMPOSITE CONCRETE	EACH	2
DOUBLE HANDHOLE, COMPOSITE CONCRETE	EACH	1
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	511
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 6	FOOT	45
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 2C	FOOT	186
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 3C	FOOT	200
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 5C	FOOT	647
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 7C	FOOT	720
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	55
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	316
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 24 FT.	EACH	2
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 46 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	4
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	20
CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	21
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	3
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	3
SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1
PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	6
PEDESTRIAN PUSH-BUTTON	EACH	2
HANDHOLE (SPECIAL)	EACH	2
WIRELESS VEHICLE DETECTION AND WARNING SYSTEM COMPLETE	EACH	1
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1

CABLE SLACK	(FEET) (m)	VERTICAL	(FEET) (m)
HANDHOLE	6.5 , (2.0)	ALL FOUNDATION	1.0 , (2.0)
DOUBLE HANDHOLE	13 , (4.0)	MAST ARM (1.) POLE	20'+L-2 = (6m+L-0.6m)
SIGNAL POST	2 , (1.0)		
CONTROLLER CAB.	1 , (0.5)	BRACKET MOUNTED	13 , (4.0)
FIBER OPTIC	13 , (4.0)	PED. PUSHBUTTON	4 , (1.2)
ELECTRIC SERVICE	1 , (0.5)	ELECTRIC SERVICE	13.5 , (4.1)
GROUND CABLE	1 , (0.5)	SERVICE TO GROUND	13. , (4.1)
		POST MOUNTED	6 , (1.8)

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS SIGNAL SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.

PROPOSED CONTROLLER SEQUENCE



LEGEND

	SINGLE ENTRY PHASE
	DUAL ENTRY PHASE
	OVERLAP
	PEDESTRIAN PHASE
	NUMBER REFERS TO ASSOCIATED PHASE

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
A	= 2	+ 8
D	= 8	+ 1

PHASE DESIGNATION DIAGRAM

DESIGNED - TVN	REVISED -
DRAWN - CJD	REVISED -
CHECKED - RPD	REVISED -
DATE - 3/11/2013	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

41ST DRIVE CONNECTOR AND 40TH AVENUE CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND SCHEDULE OF QUANTITIES

SCALE: 1=20 SHEET NO. 2 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
595	(142-1JR & 142-1HB)	ROCK ISLAND	507	295

CONTRACT NO. 64B84

2600 Warrenville Road, Suite 203, Downers Grove, IL 60515
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MILLENNIA PROFESSIONAL SERVICES