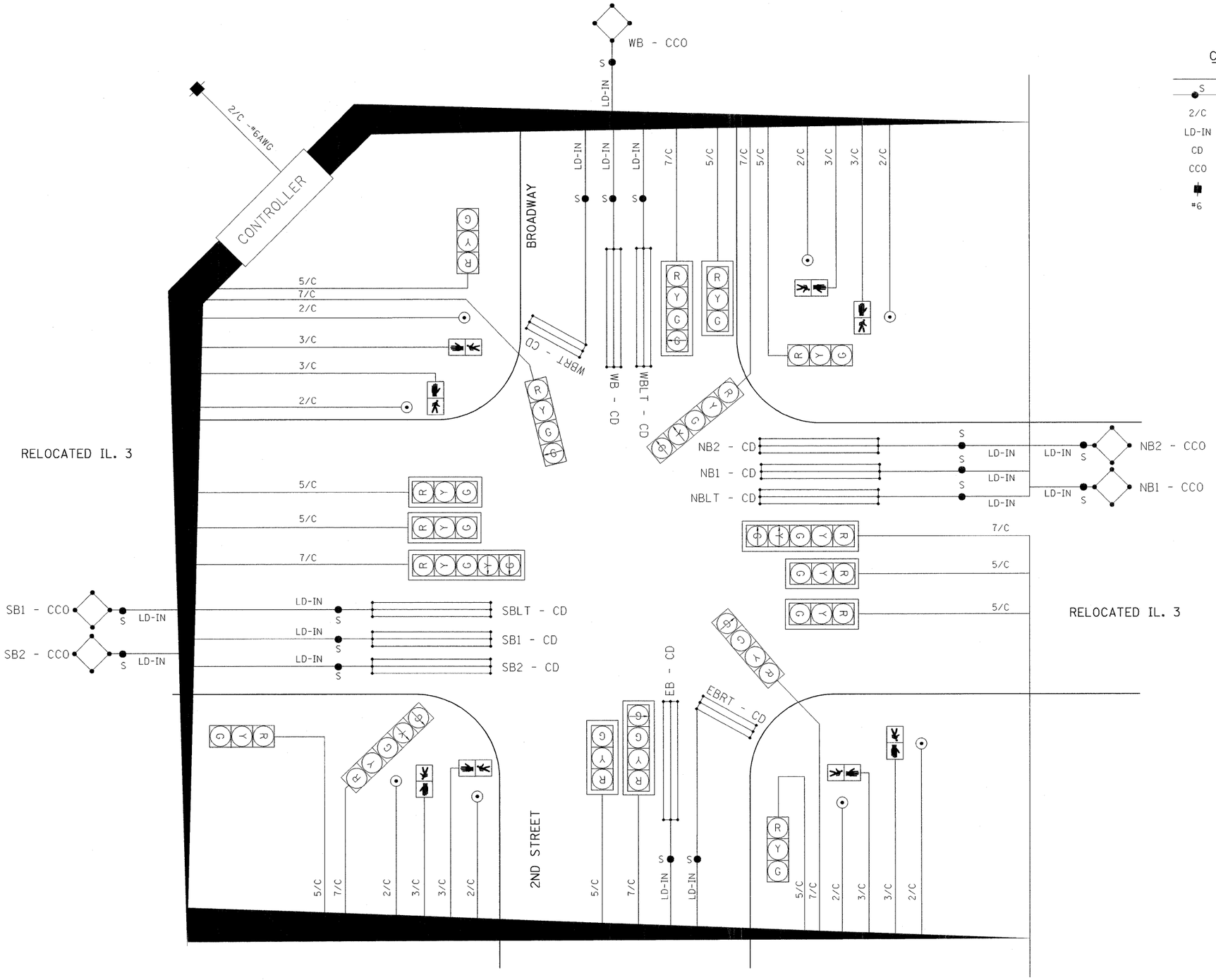

CABLE DIAGRAM LEGEND

———	ELECTRIC CABLE IN CONDUIT
—●S—	CABLE SPLICE (SEE GENERAL NOTES)
2/C	INDICATES NUMBER OF CONDUCTORS IN CABLE
LD-IN	ELECTRIC CABLE LEAD-IN, 1 PAIR
CD	CALL DELAY (SEE GENERAL NOTES)
CCO	CALL CARRY OVER (SEE GENERAL NOTES)
	SERVICE INSTALLATION
#6	INDICATES AMERICAN WIRE GAUGE (AWG) SIZE 6 CONDUCTORS (SEE GENERAL NOTES)

DETECTOR LOOP REQUIREMENTS AND CALCULATIONS FOR RELOCATED RTE 3 AND BROADWAY/SECOND.

LOOP	PHASE (Ø)	LOOP SIZE(FT)	REQUIRED # OF TURNS	CALCULATED INDUCTANCE MICROHENRIES (μH)	CALCULATED RESISTANCE OHMS (Ω)
NB1 - CCO	2	6' x 6'	6	338	2.26
NB2 - CCO	2	6' x 6'	6	338	2.26
NBLT - CD	5	6' x 50'	3	820	2.37
NB1 - CD	2	6' x 50'	3	820	2.37
NB2 - CD	2	6' x 50'	3	820	2.37
WB - CCO	3	6' x 6'	6	297	1.31
WB - CD	3	6' x 50'	3	803	1.97
WBRT - CD	3	6' x 20'	3	353	1.07
WBLT - CD	3	6' x 50'	3	803	1.97
EB - CD	4	6' x 50'	3	831	2.62
EBRT - CD	4	6' x 20'	6	381	1.72
SB1 - CCO	6	6' x 6'	6	352	2.56
SB2 - CCO	6	6' x 6'	6	352	2.56
SBLT - CD	1	6' x 50'	3	818	2.32
SB1 - CD	6	6' x 50'	3	818	2.32
SB2 - CD	6	6' x 50'	3	818	2.32

THE ABOVE VALUES ARE CALCULATED OF COMBINED LOOP AND LEAD-IN INDUCTANCE AND RESISTANCE. ACTUAL MEASURED VALUES SHOULD BE WITHIN +/- 20% OF THESE VALUES.

CABLE DIAGRAM

FILE NAME = r3nsig005_new.dgn	USER NAME = weavenlg	DESIGNED - A. KAHN	REVISED -
		DRAWN - A. KAHN	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - E. WISE	REVISED -
	PLOT DATE = 02/02/2009	DATE - 02/06/2009	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE DIAGRAM
RELOCATED IL 3 AND BROADWAY / 2ND ST

SCALE: NONE | SHEET NO. 5 OF 6 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
788	520-2-2	MADISON	173	121
		CONTRACT NO. 76633		

FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT