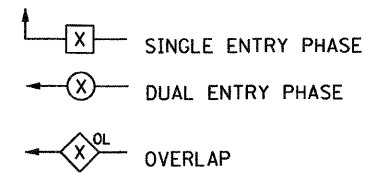


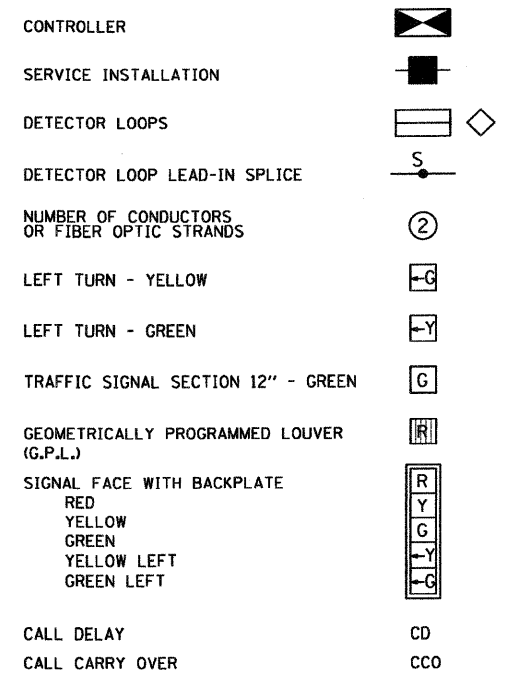
2 PHASE DESIGNATION DIAGRAM
N.T.S.

PHASE DESIGNATION LEGEND



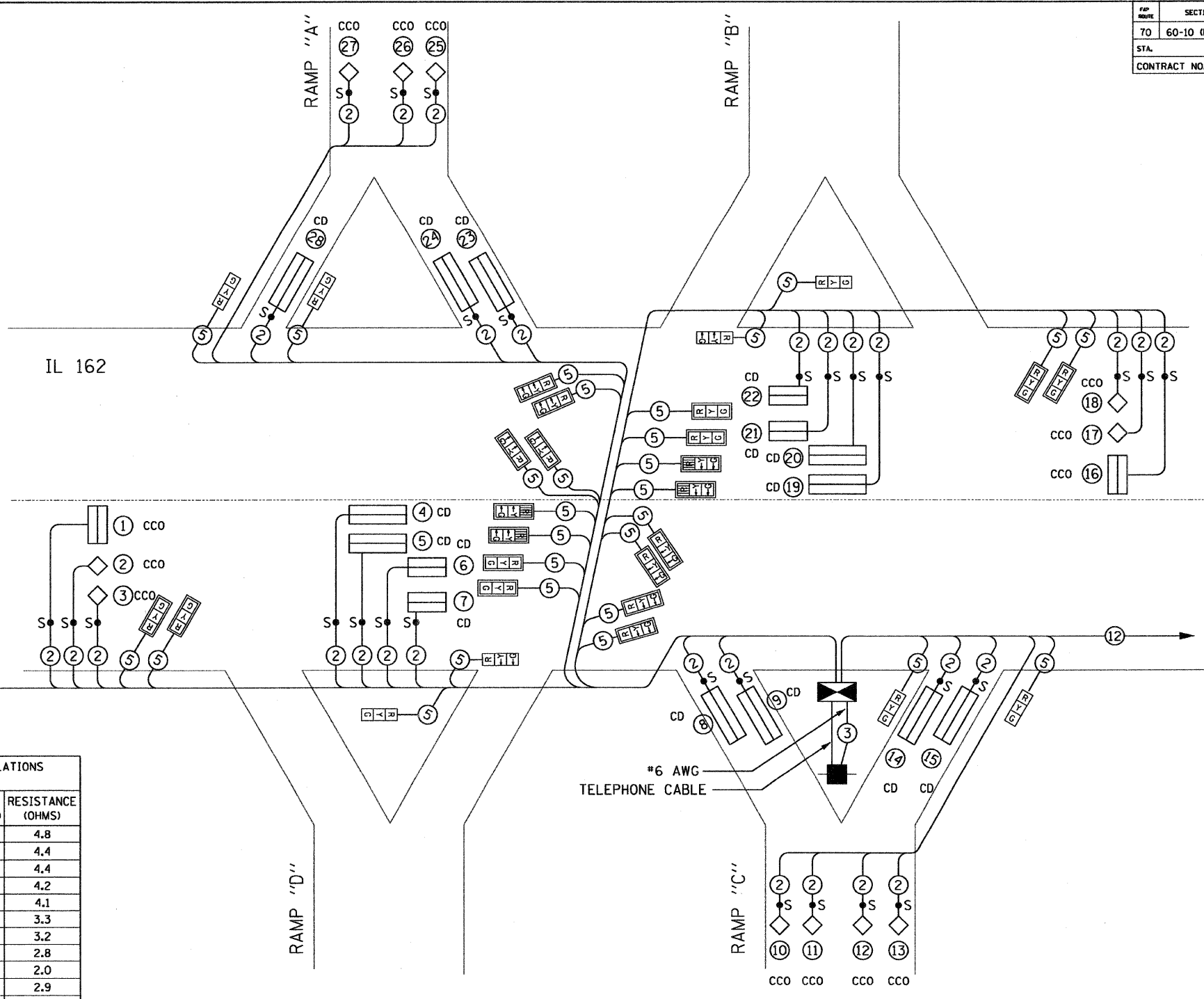
"X" NUMBER INDICATES ASSOCIATED PHASE

CABLE PLAN LEGEND



DETECTOR LOOP REQUIREMENTS AND CALCULATIONS IL-162 @ I-55/70 SPDI					
LOOP No.	+	LOOP SIZE	No. OF TURNS	INDUCTANCE (MICROHENRIES)	RESISTANCE (OHMS)
1	5	6'x15'	5	329	4.8
2	2	6'x6'	5	296	4.4
3	2	6'x6'	5	294	4.4
4	5	6'x50' 0	3-6-3	407	4.2
5	5	6'x50' 0	3-6-3	404	4.1
6	2	6'x20' 0	4-8-4	326	3.3
7	2	6'x20' 0	4-8-4	323	3.2
8	3	6'x50' 0	3-6-3	360	2.8
9	3	6'x30' 0	3-6-3	357	2.0
10	3	6'x6'	5	264	2.9
11	3	6'x6'	5	261	2.8
12	2	6'x6'	5	258	2.8
13	2	6'x6'	5	256	2.7
14	2	6'x50' 0	3-6-3	361	3.0
15	2	6'x50' 0	3-6-3	358	2.9
16	1	6'x15'	5	372	5.5
17	6	6'x6'	5	338	5.1
18	6	6'x6'	5	336	5.0
19	1	6'x50' 0	3-6-3	437	4.9
20	1	6'x50' 0	3-6-3	434	4.9
21	6	6'x20' 0	4-8-4	356	4.0
22	6	6'x20' 0	4-8-4	353	4.0
23	7	6'x50' 0	3-6-3	435	4.9
24	7	6'x30' 0	3-6-3	433	4.0
25	7	6'x6'	5	375	5.9
26	7	6'x6'	5	372	5.8
27	6	6'x6'	5	370	5.7
28	6	6'x50' 0	3-6-3	465	4.1

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



1 PROPOSED TRAFFIC SIGNALS CABLE PLAN
N.T.S.

PROPOSED SEQUENCE OF OPERATION								
PHASE	1	2	3	4	5	6	7	8
MOVMENT	↙	→	↗	↓	↑	←	↘	↑
CONCURRENT MOVEMENT PERMITTED	5 OR 6	5 OR 6	7	NONE	1 OR 2	1 OR 2	3	NONE

REVISIONS	
NAME	DATE

TS-06

ILLINOIS DEPARTMENT OF TRANSPORTATION
PROPOSED TRAFFIC SIGNALS
CABLE PLAN
IL 162 @ I-55/70 SPDI
FAI ROUTE 70
SECTION 60-10K-1, 60-10HB
MADISON COUNTY

DRAWN BY: RPJ CHECKED BY: A. OSHANA, P.E.

PLAN NO. 236-TS-06-Center_Cable.dwg
DATE 1/28/2009
BY Robert Swanson

XXXXXXX - IDOT IL 162 over I-55/70 revisions
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Robert Swanson