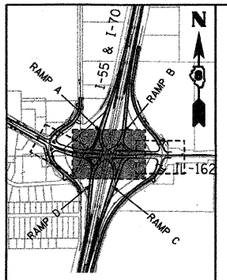
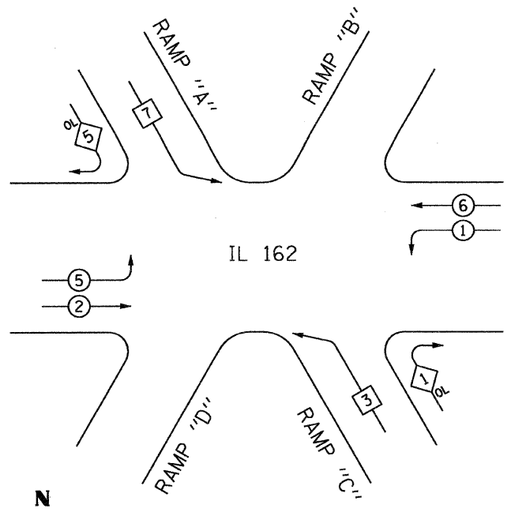
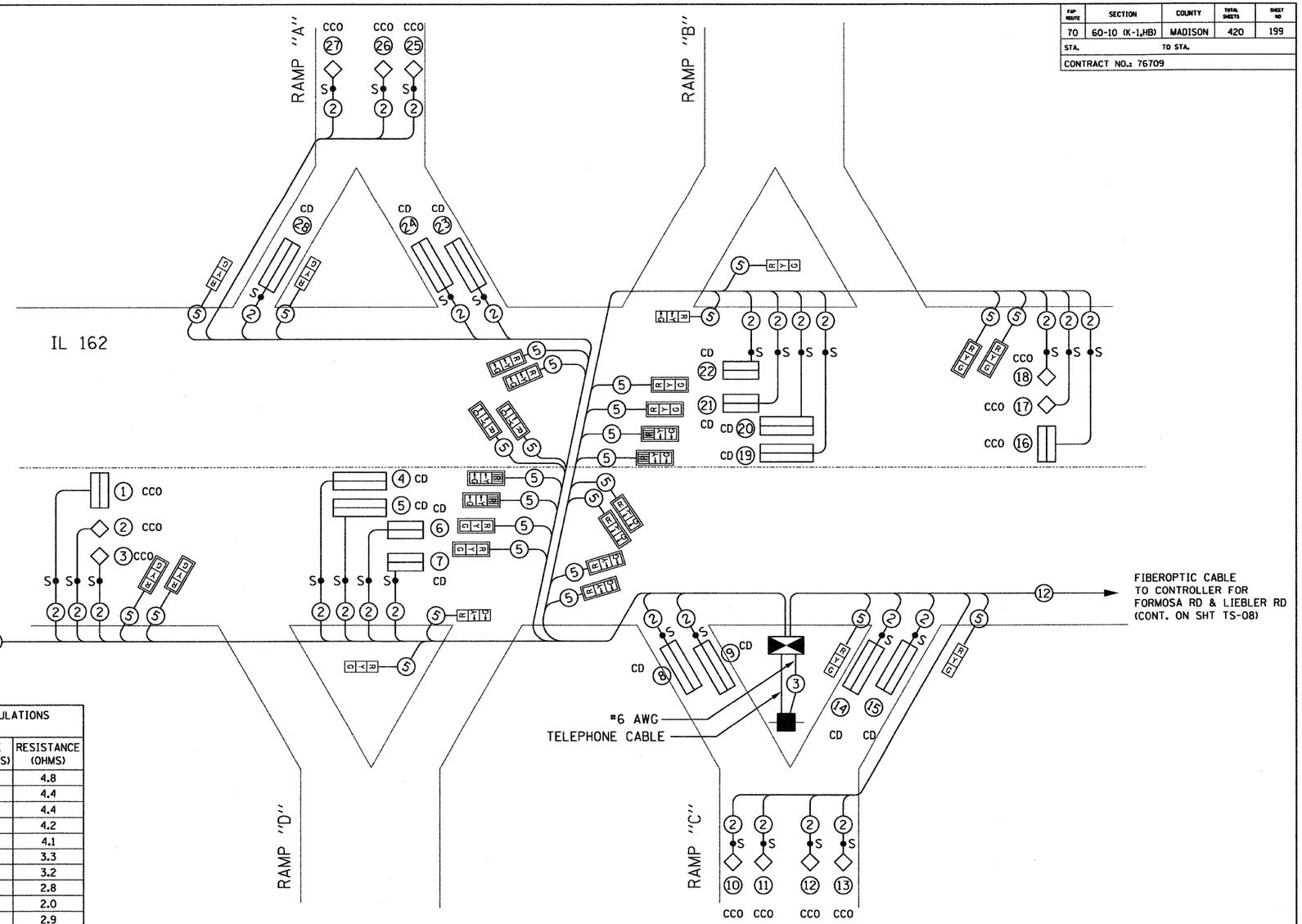
FAP ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
70	60-10 (K-1,HB)	MADISON	420	199
STA.		TO STA.		
CONTRACT NO.: 76709				



KEY PLAN



2 PHASE DESIGNATION DIAGRAM
N.T.S.



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

PHASE DESIGNATION LEGEND

- X — SINGLE ENTRY PHASE
- X — DUAL ENTRY PHASE
- X OL — OVERLAP

"X" NUMBER INDICATES ASSOCIATED PHASE

CABLE PLAN LEGEND

- CONTROLLER
- SERVICE INSTALLATION
- DETECTOR LOOPS
- DETECTOR LOOP LEAD-IN SPLICE — S
- NUMBER OF CONDUCTORS OR FIBER OPTIC STRANDS — 2
- LEFT TURN - YELLOW — G
- LEFT TURN - GREEN — Y
- TRAFFIC SIGNAL SECTION 12" - GREEN — G
- GEOMETRICALLY PROGRAMMED LOUVER (G.P.L.) — R
- SIGNAL FACE WITH BACKPLATE — R, Y, G, Y, G
  - RED
  - YELLOW
  - GREEN
  - YELLOW LEFT
  - GREEN LEFT
- CALL DELAY — CD
- CALL CARRY OVER — CCO

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' Q	3-6-3	407	4.2
5	5	6'x50' Q	3-6-3	404	4.1
6	2	6'x20' Q	4-8-4	326	3.3
7	2	6'x20' Q	4-8-4	323	3.2
8	3	6'x50' Q	3-6-3	360	2.8
9	3	6'x30' Q	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' Q	3-6-3	361	3.0
15	2	6'x50' Q	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' Q	3-6-3	437	4.9
20	1	6'x50' Q	3-6-3	434	4.9
21	6	6'x20' Q	4-8-4	356	4.0
22	6	6'x20' Q	4-8-4	353	4.0
23	7	6'x50' Q	3-6-3	435	4.9
24	7	6'x30' Q	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' Q	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

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

TS-06

REVISIONS	
NAME	DATE

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	SURVEYED	BY	DATE
NOTE BOOK NO.	ALIGNMENT CHECKED		
	PLAN PREPARED		
	PLAN FIELD VERIFIED		

XXXXX.XXX - IDOT IL 162 over I-55_70 revisions
236-TS-06-Center_Cable.dgn
1/28/2009
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Robert Swanson