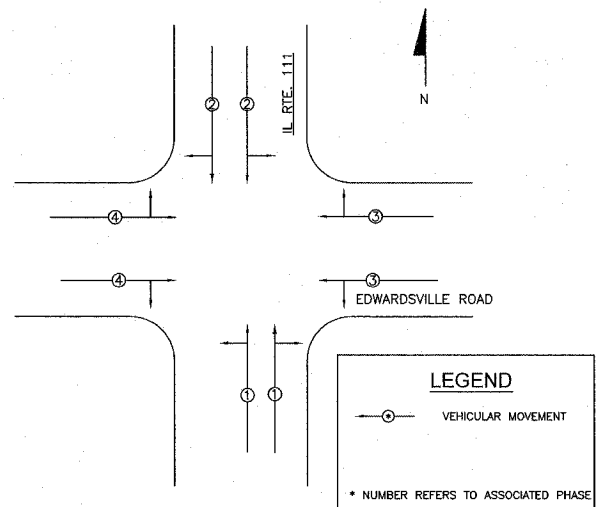


EXISTING/PROPOSED OPERATION								
PHASE $\phi$	1	2	3	4	5	6	7	8
MOVEMENT								
CONCURRENT MOVEMENT PERMITTED	NONE	NONE	NONE	NONE	NOT USED	NOT USED	NOT USED	NOT USED

**CABLE DIAGRAM LEGEND**

- ELECTRIC CABLE IN CONDUIT
- ELECTRIC CABLE IN CONDUIT (EXISTING)
- CABLE SPLICE
- 2/C INDICATES NUMBER OF CONDUCTORS IN CABLE
- TW SH TWISTED AND SHIELDED CABLE
- CD CALL DELAY
- 'E' EXISTING
- EXISTING SERVICE INSTALLATION



PHASE DESIGNATION DIAGRAM  
IL. RTE. 111 / EDWARDSVILLE ROAD

INTERSECTION OF IL. RTE. 111 / EDWARDSVILLE ROAD  
DETECTOR LOOP REQUIREMENTS AND CALCULATIONS

NO.	LOOP	PHASE	LOOP SIZE (FT.)	REQUIRED NO. OF TURNS	LEAD-IN LENGTH (FT.)	CALCULATED INDUCTANCE MICROHENRIES (-H)	CALCULATED RESISTANCE OHMS ( $\Omega$ )
1.	EASTBOUND RT.	4	6x50	3-6-3	145	817.9	2.3
2.	EASTBOUND THRU	4	6x50	3-6-3	140	816.8	2.3
3.	EASTBOUND THRU/LT.	4	6x50	3-6-3	150	819.0	2.3
4.	WESTBOUND RT.	3	6x40	3-6-3	141	667.0	2.0
5.	WESTBOUND THRU	3	6x50	3-6-3	138	816.4	2.3
6.	WESTBOUND THRU/LT.	3	6x50	3-6-3	150	819.0	2.3

**NOTES**

- ALL PEDESTRIAN SIGNAL HEADS SHALL HAVE 12-INCH L.E.D. INDICATIONS. ALL MOUNTING HARDWARE SHALL BE UNPAINTED ALUMINUM. ALL BOLTS, SCREWS, NUTS AND WASHERS SHALL BE STAINLESS STEEL. ANTI-SIEZE PASTE COMPOUND SHALL BE USED ON ALL MOUNTING HARDWARE FIELD CONNECTIONS.
- ALL TRAFFIC SIGNAL CABLES SHALL BE #14 AWG STRANDED COPPER, UNLESS OTHERWISE SPECIFIED, FIELD WIRES SHALL BE CONNECTED AT CONTROLLER OUTPUT TERMINALS USING ILSO SLU-55 CONNECTORS OR EQUIVALENT.
- IN FLASHING MODE, ALL VEHICULAR SIGNAL FACES SHALL FLASH RED.

REVISIONS


**SMS ENGINEERS**  
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EDWARDSVILLE ROAD  
PHASE II (FAU 8980)  
SECTION 05-00043-02-WF  
WOOD RIVER, ILLINOIS  
CABLE DIAGRAM

DWG. NO. Cable Diagram.dwg  
REF. BK. PG.  
JOB NO. 188-06  
DSN. BY: KW  
DWN. BY: AJT  
CHK. BY: CMB  
DATE: SEPT 28, 2006  
SCALE: HORZ: 1"=20'  
VERT: 1"=5'  
SHEET 23 OF 31