

60A47

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	2005-058 TS	LAKE	23	1

D-91-058-06

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

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21. INTERCONNECT PLAN - SHEET 3 OF 4
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PLANS FOR PROPOSED  
FEDERAL AID HIGHWAY

DISTRICT 1

CONGESTION MITIGATION AIR QUALITY  
FIBER OPTIC COMMUNICATION NETWORK

F.A.P. 346 - U.S. ROUTE. 41

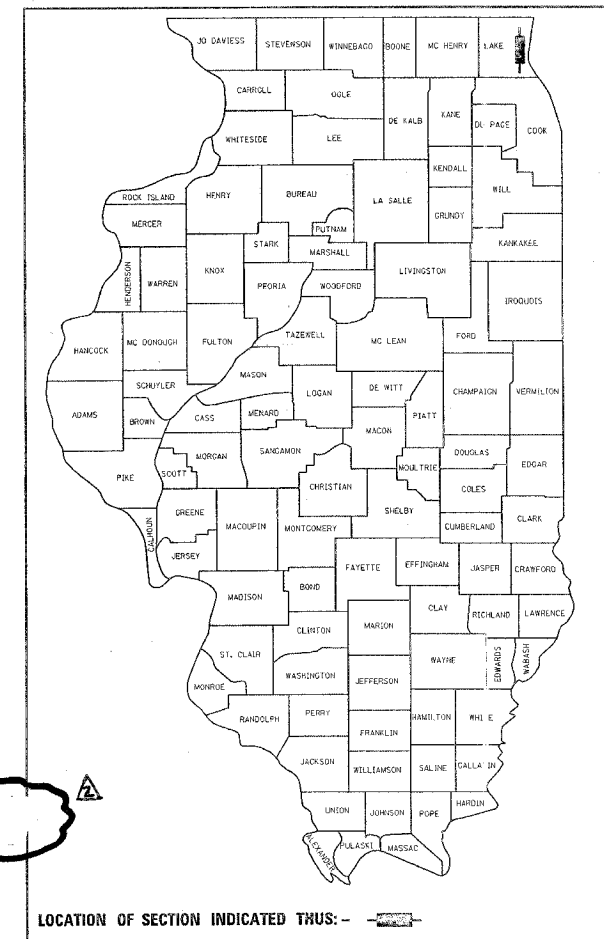
FROM

AMHURST PKWY. TO ILLINOIS ROUTE 137

SECTIONS 2005-058 TS

C-91-058-06

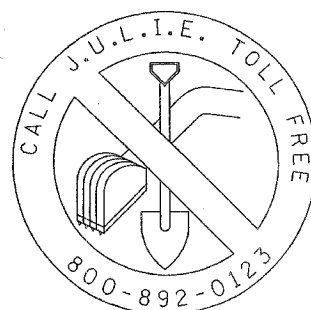
LAKE COUNTY



STANDARD DRAWINGS

701 006-02	701 011-01	701 101-01	701 301-02	702 001-06
424 001-04	720 001	81 3001-01	81 4001-01	81 4006
857 001	877 001-02	877 006-02	877 011-02	878 001-04
880 001	880 006	886 001		
701 201-02	701 316-03	701 321-08	701 406-04	701 501-03
701 502-01	701 606-04	701 601-04	701 701-04	701 801-03

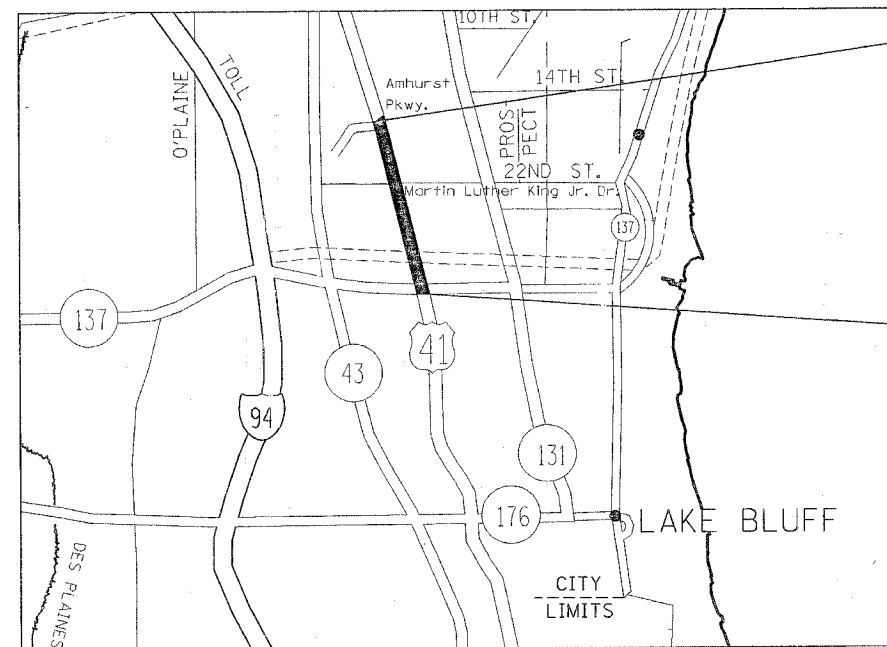
NOTE: STANDARD DRAWINGS REQUIRED (CIRCLED).



CONTRACT NO. 60A47

PREPARED BY: Steve Jamin 2/1/07  
TRAFFIC ENGINEER DATE

48 - HOURS BEFORE DIGGING



PROJECT BEGIN

PROJECT END



WAUKEGAN TOWNSHIP

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

SUBMITTED 2/8 20 07  
James M. O'Keefe, III  
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

March 23, 20 07  
Eric E. Hamill  
ENGINEER OF DESIGN AND ENVIRONMENT

March 23, 20 07  
Milton R. Seas, P.E.  
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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Rev. 4-18-07

Rev.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	2005-058-TS	LAKE	23	2
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

CONTRACT # 60A47

PERCENTAGES		LOCATION OF WORK		U.S. RTE. 41 & AMHURST PKWY.	U.S. RTE. 41 & 22ND STREET (M.L. KING JR. DRIVE)	U.S. RTE. 41 & IL. RTE 137	U.S. RTE. 41 FROM IL. RTE. 137 TO AMHURST PKWY. INTERCONNECT
SUMMARY OF TRAFFIC SIGNAL QUANTITIES				CONSTRUCTION CODE			
ITEM	UNIT	TOTAL	Y031 1F	Y031 1F	Y031 1F	Y031 1F	Y031 1F
67100100	MOBILIZATION	L SUM	1	0.30	0.30	0.10	0.30
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1	0.25	0.25	0.25	0.25
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	0.25	0.25	0.25	0.25
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1	0.25	0.25	0.25	0.25
81000600	CONDUIT IN TRENCH, 2" DIA. GALVANIZED STEEL	FOOT	6225				6225
81018500	CONDUIT PUSHED, 2" DIA. GALVANIZED STEEL	FOOT	235				235
81400200	HEAVY DUTY HANDHOLE	EACH	12				12
81900200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	6225				6225
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	3	1	1	1	
85700205	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET (SPECIAL)	EACH	1	1			
X0325706	RAILROAD, FULL-ACTUATED CONTROLLER AND TYPE IV CABINET (SPECIAL)	EACH	2		1	1	
86400100	TRANSCEIVER - FIBER OPTIC	EACH	3	1	1	1	
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3 C	FOOT	1567	580	987		
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	198	198			
87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	856		856		
X8730027	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1 C	FOOT	198	198			
X0322925	ELECTRIC CABLE IN CONDUIT, TRACER NO. 14 1 C	FOOT	8027.5				8027.5
X8710020	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125 MM12F & SM12F	FOOT	8079.5				8079.5
* X8730250	ELECTRIC CABLE IN CONDUIT NO. 20 3C, TWISTED, SHIELDED	FOOT	987		987		
87900200	DRILL EXISTING HANDHOLE	EACH	6				6
88200210	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	18	5	13		
88500100	INDUCTIVE LOOP DETECTOR	EACH	45	7	15	23	
* 88700200	LIGHT DETECTOR	EACH	4		4		
* 88700300	LIGHT DETECTOR AMPLIFIER	EACH	1		1		
* X0301023	CONFIRMATION BEACON	EACH	3	3			
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	183	183			
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	3	1	1	1	
88030020	SIGNAL HEAD, L.E.D., 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	15	4	11		
88030050	SIGNAL HEAD, L.E.D., 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	9	4	5		
88030100	SIGNAL HEAD, L.E.D., 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1	1			
88030110	SIGNAL HEAD, L.E.D., 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	3	1	2		
88030210	SIGNAL HEAD, L.E.D., 2-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1		1		
88030240	SIGNAL HEAD, L.E.D., 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	2		2		
88030310	SIGNAL HEAD, L.E.D., 3-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1	1			
X8050015	SERVICE INSTALLATION, POLE MOUNTED	EACH	1	1			
89100400	ILLUMINATED SIGN, L.E.D.	EACH	2		2		
X0325705	RE OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2	EACH	3				3
XX006661	UNINTERRUPTABLE POWER SUPPLY	EACH	3	1	1	1	
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	3	1	1	1	

\* COST TO BE PAID BY CITY OF NORTH CHICAGO  
Y031-30 (1001.CITY)

RESTORATION OF WORK AREA. RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEMS SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC., SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

Rev. 4-18-07

**MORRIS ENGINEERING, INC.**  
 5100 S. LINCOLN SUITE 100 LISLE, ILLINOIS 60532  
 PHONE: (630)271-0770 EMAIL: ECIVIL.COM

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**SUMMARY OF QUANTITIES**  
 U.S. RTE. 41  
 AMHURST PARKWAY TO  
 U.S. RTE. 137  
 SCALE: NTS  
 DATE: 1/31/07  
 DRAWN BY: PRT  
 DESIGNED BY: RKF  
 CHECKED BY: JVV