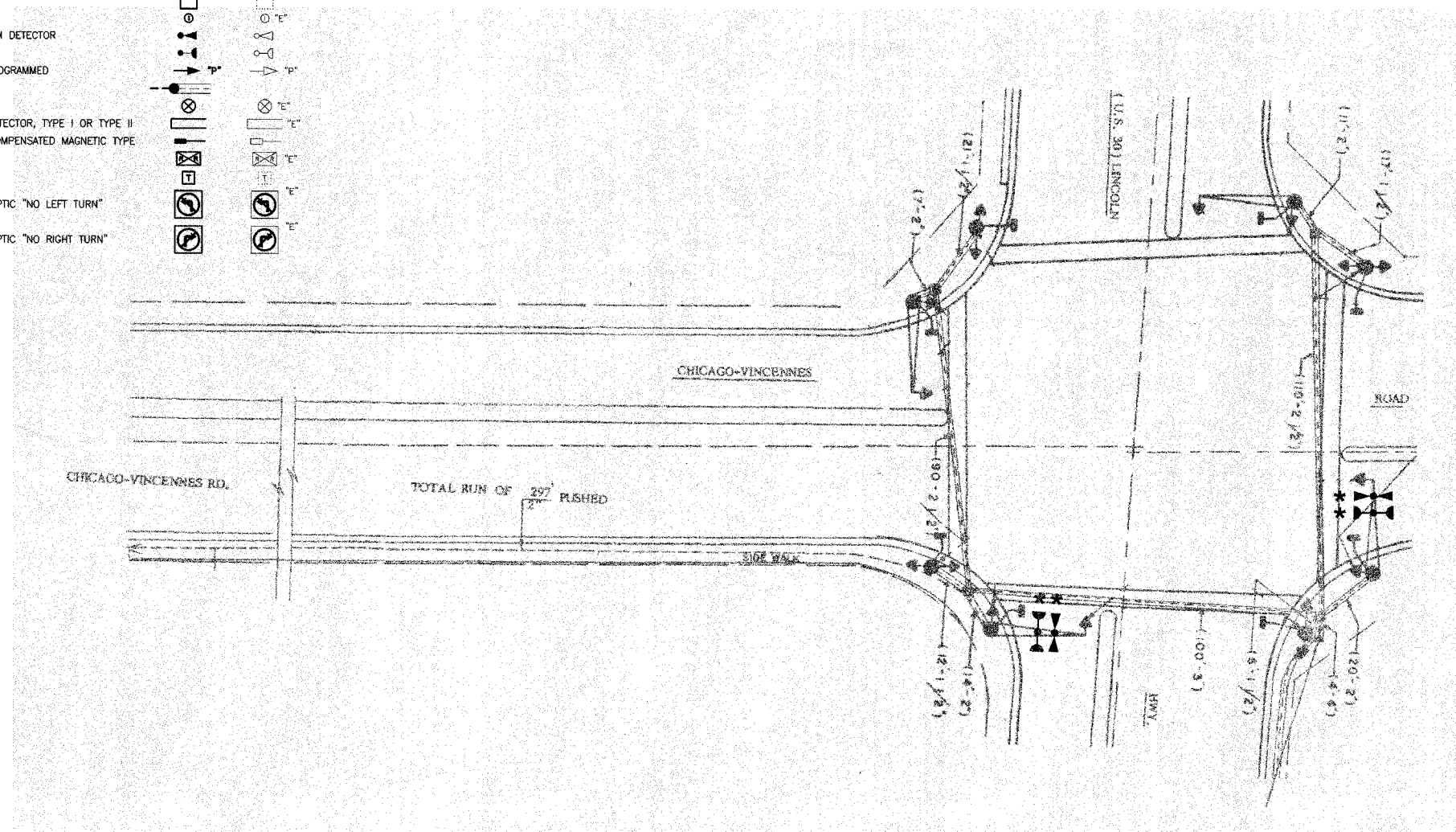
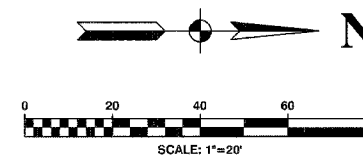
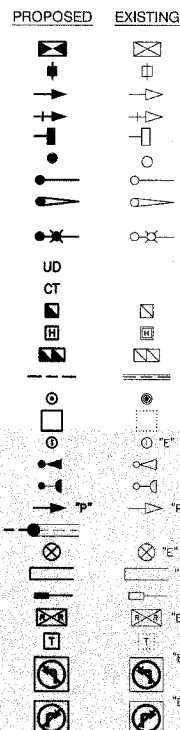


F. A. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00146-00-TL	COOK	273	101
STA.		TO STA.		
FED. ROAD DIST. NO.	BLK/NO.	FED. AID PROJECT		

CONTRACT NO. 63003

TRAFFIC SIGNAL LEGEND

- CONTROLLER
- SERVICE INSTALLATION
- SIGNAL HEAD
- SIGNAL HEAD WITH BACKPLATE
- SIGNAL HEAD, PEDESTRIAN
- SIGNAL POST
- MAST ARM ASSEMBLY AND POLE, STEEL
- MAST ARM ASSEMBLY AND POLE, ALUMINUM
- COMBINATION MAST ARM ASSEMBLY AND POLE STEEL WITH LUMINAIRE
- UNIT DUCT
- COMMON TRENCH
- HANDHOLE
- HEAVY DUTY HANDHOLE
- DOUBLE HANDHOLE
- G.S. CONDUIT IN GROUND
- PEDESTRIAN PUSHBUTTON DETECTOR
- DETECTOR LOOP
- CAST IRON JUNCTION BOX
- EMERGENCY VEHICLE SYSTEM DETECTOR
- CONFIRMATION BEACON
- SIGNAL HEAD OPTICALLY PROGRAMMED
- CONDUIT SPLICE
- WOOD POLE
- RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II
- VEHICLE DETECTOR, NON COMPENSATED MAGNETIC TYPE
- RAILROAD CONTROL CABINET
- TELEPHONE CONNECTION
- ILLUMINATED SIGN, FIBER OPTIC "NO LEFT TURN"
- ILLUMINATED SIGN, FIBER OPTIC "NO RIGHT TURN"



NOTES

- *1. THIS PLAN IS FOR THE PURPOSE OF INSTALLING EMERGENCY VEHICLE PREEMPTION EQUIPMENT AS SHOWN PER PLAN INDICATED IN THE SCHEDULE OF QUANTITIES. ALL OTHER EQUIPMENT SHOWN SHALL BE DISREGARDED.

* PLANS MODIFIED BY ROBINSON ENGINEERING, LTD

REVISIONS	
NAME	DATE
* ADDED EV PREEMPTION	01/02/08

CITY OF CHICAGO HEIGHTS
LOCATION NO. 42

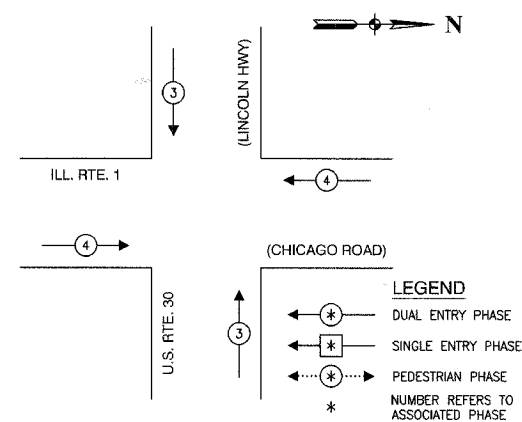
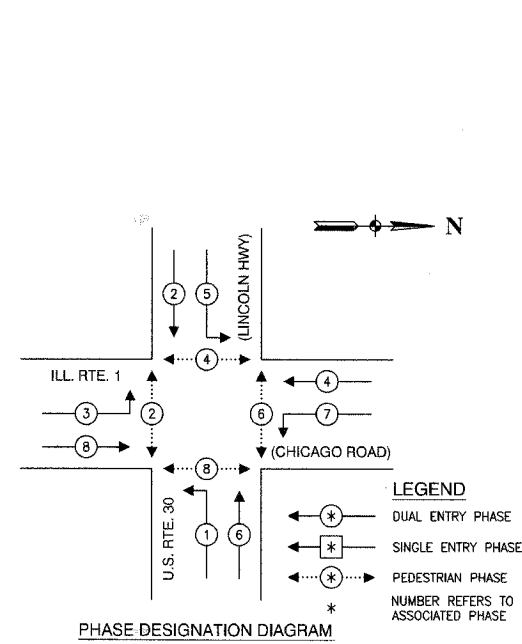
ILLINOIS DEPARTMENT OF TRANSPORTATION
PROPOSED EMERGENCY VEHICLE PREEMPTION
ROUTE 30 (LINCOLN HIGHWAY) & CHICAGO RD

SCALE: VERT. _____
HORIZ. _____
DATE _____ DRAWN BY _____
CHECKED BY _____

ROBINSON ENGINEERING, LTD.
1700 SOUTH PARK AVENUE SOUTH HOLLAND, ILLINOIS 60473
(708) 331-8100 FAX (708) 331-8888
ILLINOIS DESIGN FIRM REGISTRATION NO. 18401126

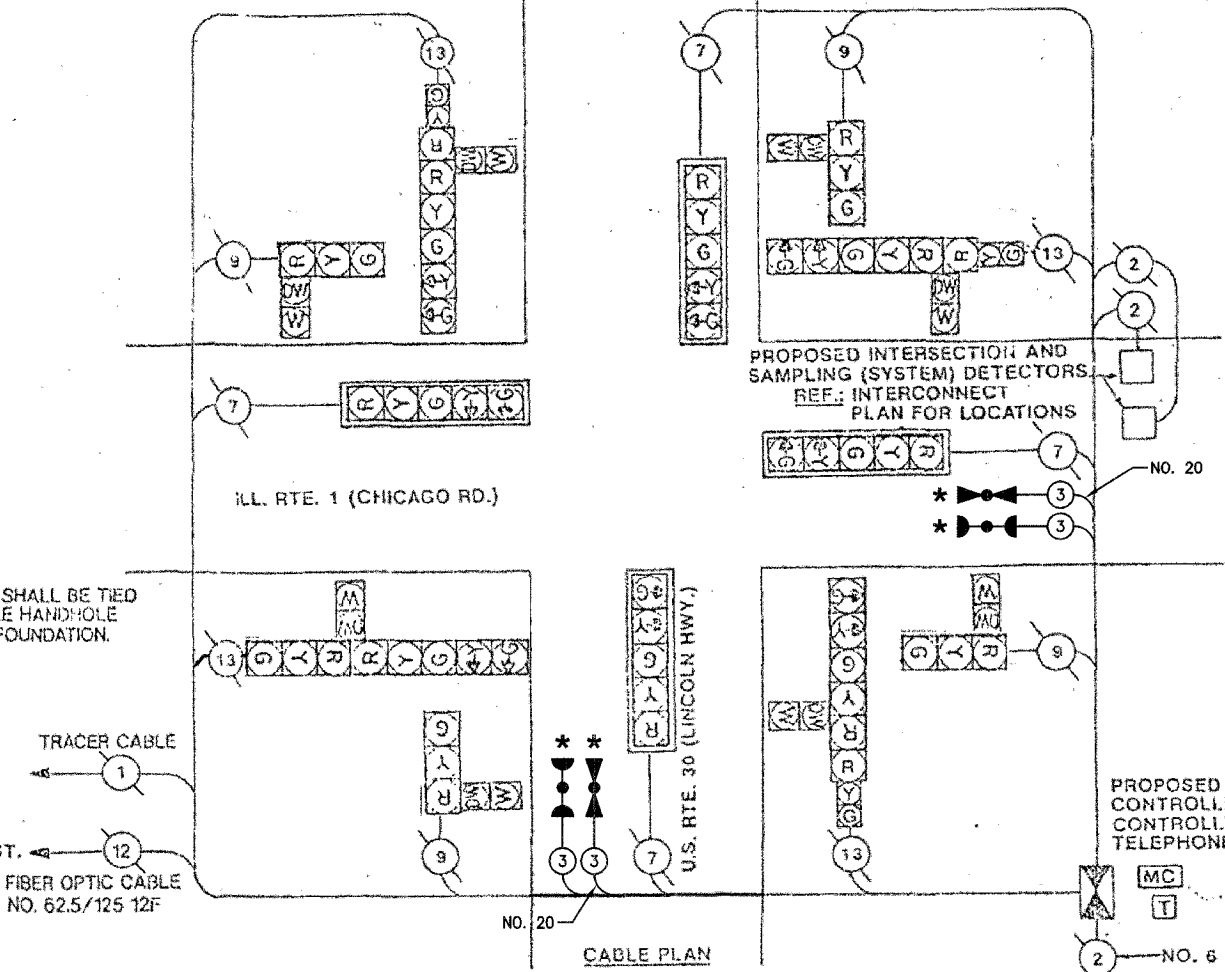
F. A. SHEET NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00146-00-TL	COOK	273	102
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 63003



PEDESTRIAN

THE END OF THE TRACER CABLE SHALL BE TIED TO A CABLE HOOK IN THE DOUBLE HANDHOLE CLOSEST TO THE CONTROLLER FOUNDATION.



CABLE PLAN LEGEND

EXISTING	PROPOSED	DESCRIPTION
[Symbol]	[Symbol]	8" TRAFFIC SIGNAL SECTION
[Symbol]	[Symbol]	12" TRAFFIC SIGNAL SECTION
[Symbol]	[Symbol]	12" PEDESTRIAN SIGNAL SECTION
[Symbol]	[Symbol]	12" PEDESTRIAN SIGNAL SECTION
[Symbol]	[Symbol]	CONTROLLER CABINET
[Symbol]	[Symbol]	SERVICE INSTALLATION
[Symbol]	[Symbol]	TELEPHONE CONNECTION
[Symbol]	[Symbol]	MAGNETIC DETECTOR
[Symbol]	[Symbol]	EMERGENCY VEHICLE LIGHT DETECTOR
[Symbol]	[Symbol]	CONFIRMATION BEACON
[Symbol]	[Symbol]	PUSHBUTTON DETECTOR
[Symbol]	[Symbol]	VEHICLE DETECTOR, INDUCTION LOOP
[Symbol]	[Symbol]	DENOTES NUMBER OF CONDUCTORS. ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED.
[Symbol]	[Symbol]	SIGNAL FACE WITH BACKPLATE
[Symbol]	[Symbol]	"P" INDICATES PROGRAMMED HEAD
[Symbol]	[Symbol]	RAILROAD CONTROL CABINET
[Symbol]	[Symbol]	ILLUMINATED SIGN, FIBER OPTIC "NO LEFT TURN"
[Symbol]	[Symbol]	ILLUMINATED SIGN, FIBER OPTIC "NO RIGHT TURN"
[Symbol]	[Symbol]	H/C GROUND ROD AT HANDHOLE, DOUBLE HANDHOLE, OR CONTROLLER
[Symbol]	[Symbol]	P GROUND ROD AT POST OR MAST ARM POLE
[Symbol]	[Symbol]	S GROUND ROD AT ELECTRIC SERVICE INSTALLATION

SCHEDULE OF QUANTITIES

PAY ITEM	UNIT	QUANTITY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	276
LIGHT DETECTOR	EACH	2
LIGHT DETECTOR AMPLIFIER	EACH	1
ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED	FOOT	276

NOTE

* 1. THIS PLAN IS FOR THE PURPOSE OF INSTALLING EMERGENCY VEHICLE PREEMPTION EQUIPMENT AS SHOWN PER PLAN INDICATED IN THE SCHEDULE OF QUANTITIES. ALL OTHER EQUIPMENT SHOWN SHALL BE DISREGARDED.

* PLANS MODIFIED BY ROBINSON ENGINEERING, LTD

REVISIONS	
NAME	DATE
ADDED EV PREEMPTION	01/02/08

CITY OF CHICAGO HEIGHTS LOCATION NO. 42

ILLINOIS DEPARTMENT OF TRANSPORTATION

PROPOSED EMERGENCY VEHICLE PREEMPTION CABLE PLAN, PHASE DESIGNATION DIAGRAM & SCHEDULE OF QUANTITIES
ROUTE 30 (LINCOLN HIGHWAY) & CHICAGO RD

SCALE: VERT. _____
HORIZ. _____

DATE _____ DRAWN BY _____
CHECKED BY _____

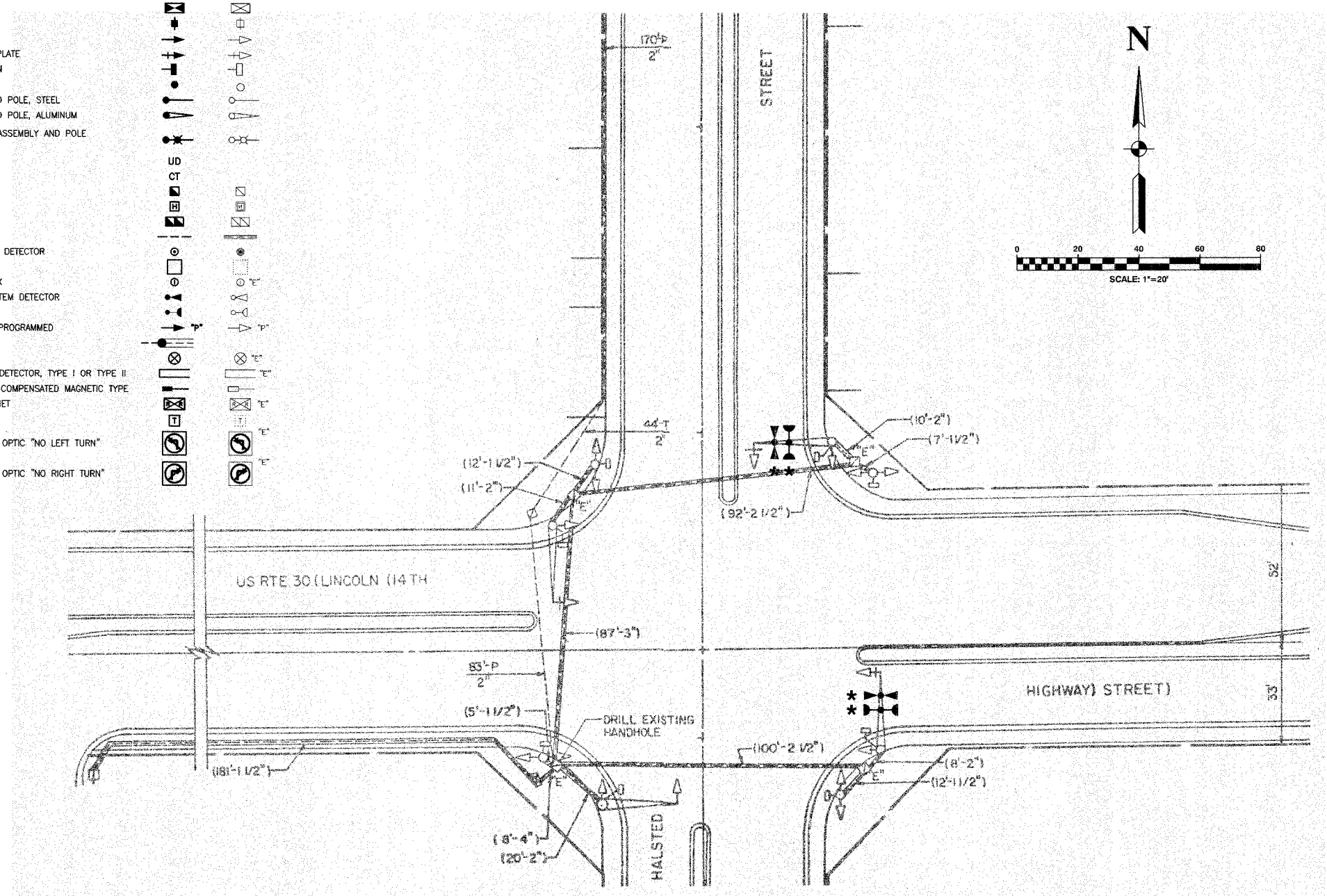
ROBINSON ENGINEERING, LTD.
17000 SOUTH PARK AVENUE SOUTH HOLLAND, ILLINOIS 60473
(708) 531-4210 FAX (708) 531-5826
ILLINOIS DESIGN FIRM REGISTRATION NO. 164001126

F. A. SHEET NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00146-00-TL	COOK	273	103
STA.		TO STA.		
FED. ROAD DIST. NO.	ELAVOR	FED. AID PROJECT		

CONTRACT NO. 63003

TRAFFIC SIGNAL LEGEND

	PROPOSED	EXISTING
CONTROLLER		
SERVICE INSTALLATION		
SIGNAL HEAD		
SIGNAL HEAD WITH BACKPLATE		
SIGNAL HEAD, PEDESTRIAN		
SIGNAL POST		
MAST ARM ASSEMBLY AND POLE, STEEL		
MAST ARM ASSEMBLY AND POLE, ALUMINUM		
COMBINATION MAST ARM ASSEMBLY AND POLE STEEL WITH LUMINAIRE		
UNIT DUCT		
COMMON TRENCH		
HANDHOLE		
HEAVY DUTY HANDHOLE		
DOUBLE HANDHOLE		
G.S. CONDUIT IN GROUND		
PEDESTRIAN PUSHBUTTON DETECTOR		
DETECTOR LOOP		
CAST IRON JUNCTION BOX		
EMERGENCY VEHICLE SYSTEM DETECTOR		
CONFIRMATION BEACON		
SIGNAL HEAD OPTICALLY PROGRAMMED		
CONDUIT SPLICE		
WOOD POLE		
RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II		
VEHICLE DETECTOR, NON COMPENSATED MAGNETIC TYPE		
RAILROAD CONTROL CABINET		
TELEPHONE CONNECTION		
ILLUMINATED SIGN, FIBER OPTIC "NO LEFT TURN"		
ILLUMINATED SIGN, FIBER OPTIC "NO RIGHT TURN"		



NOTES

* 1. THIS PLAN IS FOR THE PURPOSE OF INSTALLING EMERGENCY VEHICLE PREEMPTION EQUIPMENT AS SHOWN PER PLAN INDICATED IN THE SCHEDULE OF QUANTITIES. ALL OTHER EQUIPMENT SHOWN SHALL BE DISREGARDED.

CITY OF CHICAGO HEIGHTS
LOCATION NO. 43

* PLANS MODIFIED BY
ROBINSON ENGINEERING, LTD

REVISIONS	
NAME	DATE
* ADDED EV PREEMPTION	01/02/08

ILLINOIS DEPARTMENT OF TRANSPORTATION

PROPOSED EMERGENCY VEHICLE PREEMPTION
ROUTE 30 (LINCOLN HIGHWAY) & HALSTED STREET

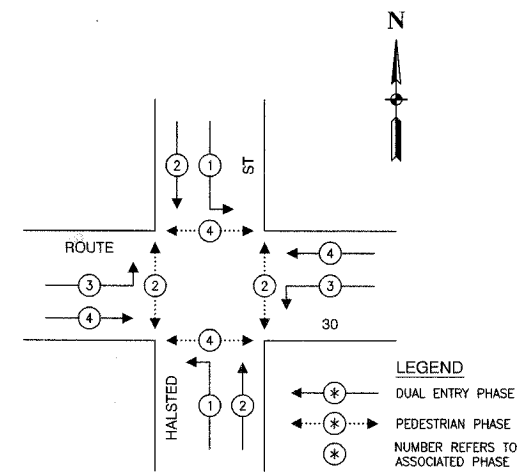
SCALE: VERT. _____
HORIZ. _____
DATE _____ DRAWN BY _____
CHECKED BY _____

F. A. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00146-00-TL	COOK	273	104
STA.	TO STA.			
FED. ROAD DIST. NO.	PLANES	FED. AID PROJECT		

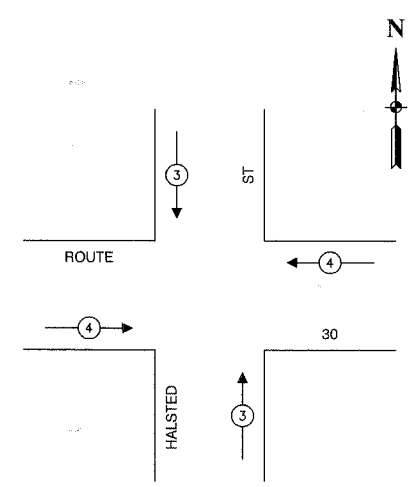
CONTRACT NO. 63003

CABLE PLAN LEGEND

- | | | |
|----------|----------|---|
| EXISTING | PROPOSED | |
| | | 8" TRAFFIC SIGNAL SECTION |
| | | 12" TRAFFIC SIGNAL SECTION |
| | | 12" PEDESTRIAN SIGNAL SECTION |
| | | 12" PEDESTRIAN SIGNAL SECTION |
| | | CONTROLLER CABINET |
| | | SERVICE INSTALLATION |
| | | TELEPHONE CONNECTION |
| | | MAGNETIC DETECTOR |
| | | EMERGENCY VEHICLE LIGHT DETECTOR |
| | | CONFIRMATION BEACON |
| | | PUSHBUTTON DETECTOR |
| | | VEHICLE DETECTOR, INDUCTION LOOP |
| | | DENOTES NUMBER OF CONDUCTORS. ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED. |
| | | SIGNAL FACE WITH BACKPLATE |
| | | "P" INDICATES PROGRAMMED HEAD |
| | | RAILROAD CONTROL CABINET |
| | | ILLUMINATED SIGN, FIBER OPTIC "NO LEFT TURN" |
| | | ILLUMINATED SIGN, FIBER OPTIC "NO RIGHT TURN" |
| | | H/C GROUND ROD AT HANDHOLE, DOUBLE HANDHOLE, OR CONTROLLER |
| | | P GROUND ROD AT POST OR MAST ARM POLE |
| | | S GROUND ROD AT ELECTRIC SERVICE INSTALLATION |

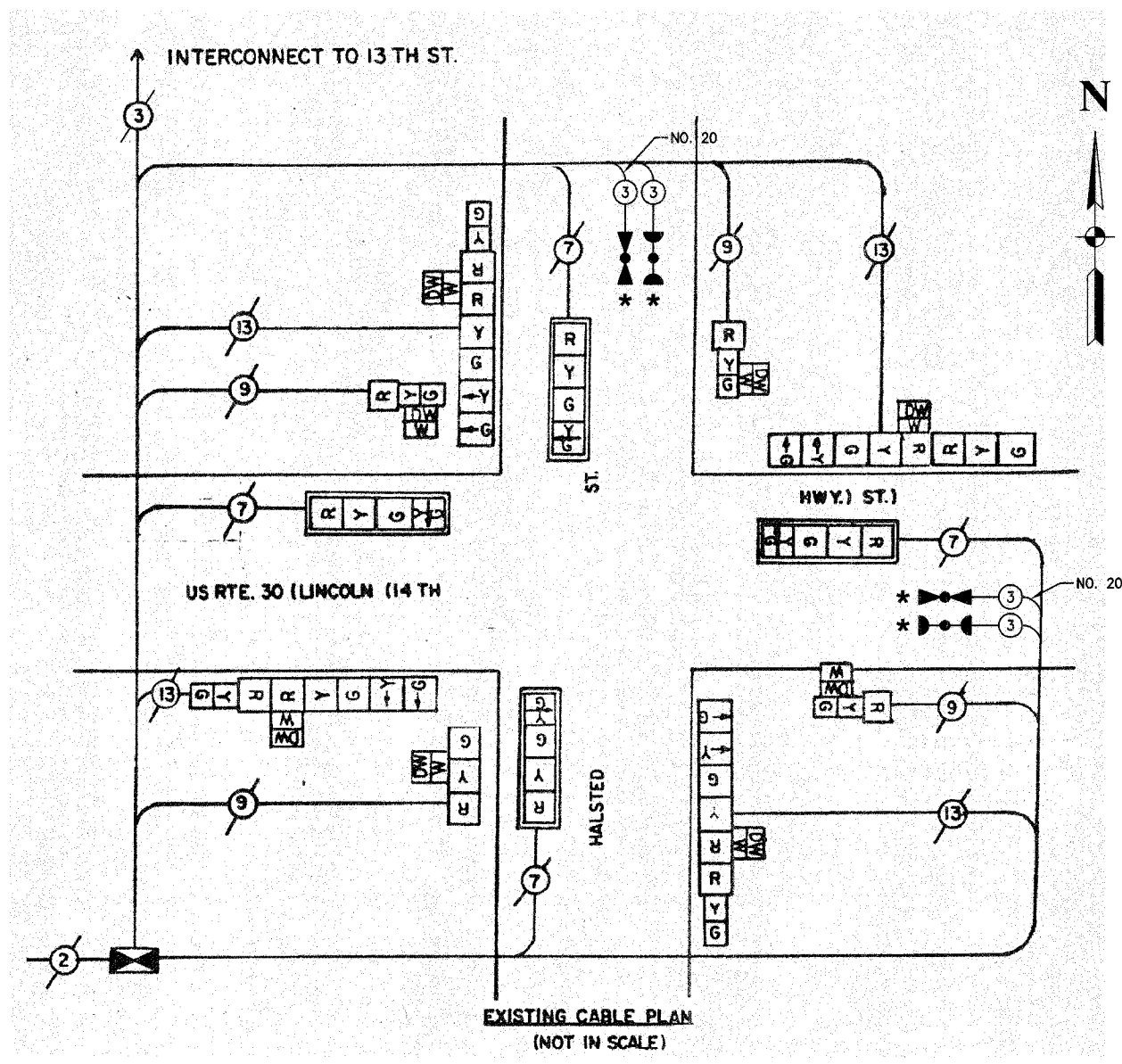


PHASE DESIGNATION DIAGRAM



EMERGENCY VEHICLE PREEMPTION SEQUENCE

PROPOSED EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	↓	←



EXISTING CABLE PLAN (NOT IN SCALE)

SCHEDULE OF QUANTITIES		
PAY ITEM	UNIT	QUANTITY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	456
LIGHT DETECTOR	EACH	2
LIGHT DETECTOR AMPLIFIER	EACH	1
ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED	FOOT	456

NOTE

* 1. THIS PLAN IS FOR THE PURPOSE OF INSTALLING EMERGENCY VEHICLE PREEMPTION EQUIPMENT AS SHOWN PER PLAN INDICATED IN THE SCHEDULE OF QUANTITIES. ALL OTHER EQUIPMENT SHOWN SHALL BE DISREGARDED.

* PLANS MODIFIED BY ROBINSON ENGINEERING, LTD

REVISIONS	
NAME	DATE
* ADDED EV PREEMPTION	01/02/06

CITY OF CHICAGO HEIGHTS
LOCATION NO. 43

ILLINOIS DEPARTMENT OF TRANSPORTATION

PROPOSED EMERGENCY VEHICLE PREEMPTION CABLE PLAN, PHASE DESIGNATION DIAGRAM & SCHEDULE OF QUANTITIES
ROUTE 30 (LINCOLN HIGHWAY) & HALSTED STREET

SCALE: VERT. _____ DRAWN BY _____
HORIZ. _____ CHECKED BY _____
DATE _____

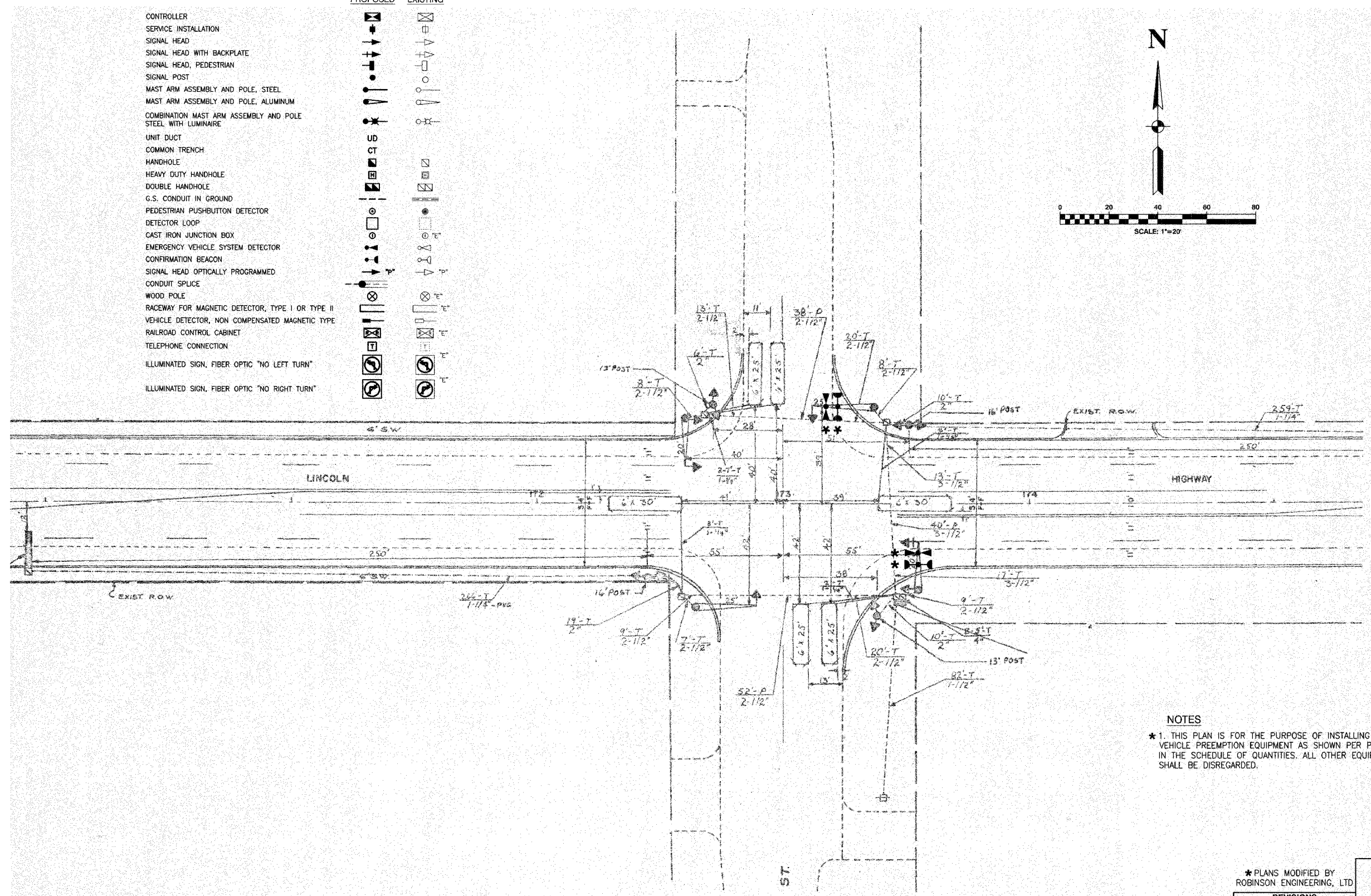
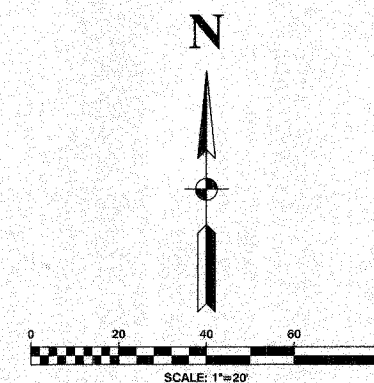
ROBINSON ENGINEERING, LTD.
1700 SOUTH PARK AVENUE SOUTH HOLLAND, ILLINOIS 60473
(708) 381-8700 FAX (708) 381-8888
ILLINOIS DESIGN FIRM REGISTRATION NO. 184001126

F. A. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00146-00-TL	COOK	273	105
STA.		TO STA.		
FED. ROAD DIST. NO.	LANES	FED. AID PROJECT		

CONTRACT NO. 63003

TRAFFIC SIGNAL LEGEND

	PROPOSED	EXISTING
CONTROLLER		
SERVICE INSTALLATION		
SIGNAL HEAD		
SIGNAL HEAD WITH BACKPLATE		
SIGNAL HEAD, PEDESTRIAN		
SIGNAL POST		
MAST ARM ASSEMBLY AND POLE, STEEL		
MAST ARM ASSEMBLY AND POLE, ALUMINUM		
COMBINATION MAST ARM ASSEMBLY AND POLE STEEL WITH LUMINAIRE		
UNIT DUCT		
COMMON TRENCH		
HANDHOLE		
HEAVY DUTY HANDHOLE		
DOUBLE HANDHOLE		
G.S. CONDUIT IN GROUND		
PEDESTRIAN PUSHBUTTON DETECTOR		
DETECTOR LOOP		
CAST IRON JUNCTION BOX		
EMERGENCY VEHICLE SYSTEM DETECTOR		
CONFIRMATION BEACON		
SIGNAL HEAD OPTICALLY PROGRAMMED		
CONDUIT SPLICE		
WOOD POLE		
RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II		
VEHICLE DETECTOR, NON COMPENSATED MAGNETIC TYPE		
RAILROAD CONTROL CABINET		
TELEPHONE CONNECTION		
ILLUMINATED SIGN, FIBER OPTIC "NO LEFT TURN"		
ILLUMINATED SIGN, FIBER OPTIC "NO RIGHT TURN"		



NOTES
 * 1. THIS PLAN IS FOR THE PURPOSE OF INSTALLING EMERGENCY VEHICLE PREEMPTION EQUIPMENT AS SHOWN PER PLAN INDICATED IN THE SCHEDULE OF QUANTITIES. ALL OTHER EQUIPMENT SHOWN SHALL BE DISREGARDED.

CITY OF CHICAGO HEIGHTS
 LOCATION NO. 44

* PLANS MODIFIED BY
 ROBINSON ENGINEERING, LTD

REVISIONS	
NAME	DATE
* ADDED EV PREEMPTION	01/02/08

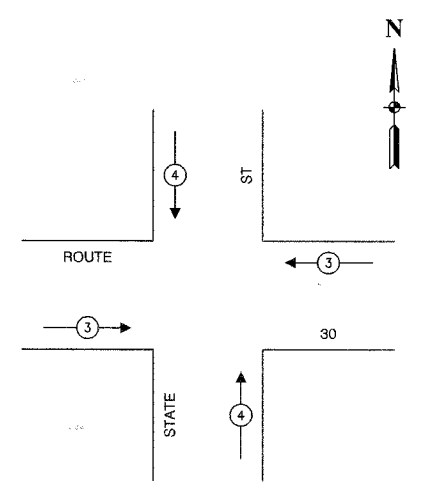
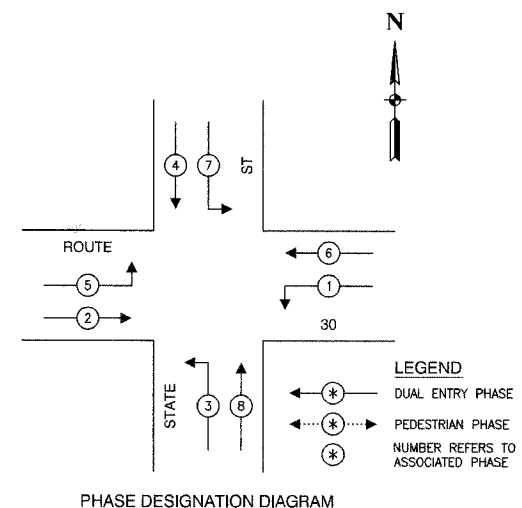
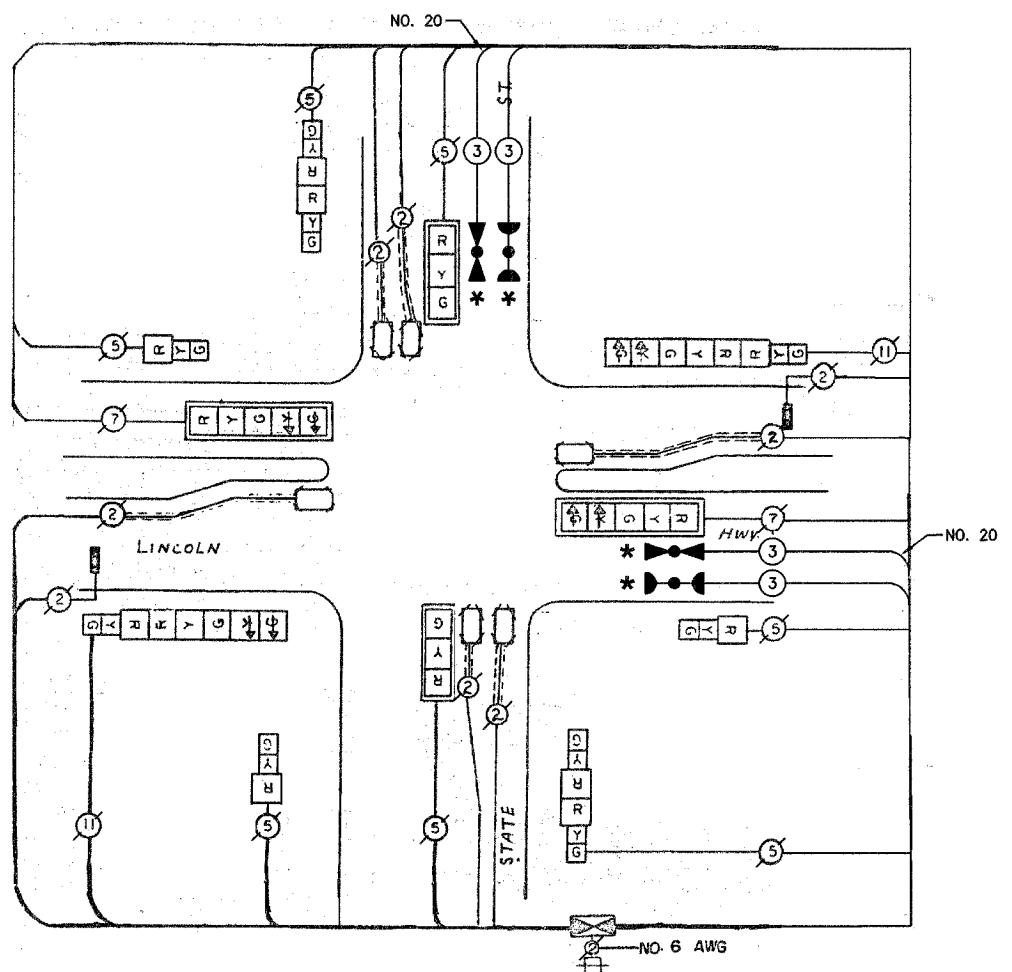
ILLINOIS DEPARTMENT OF TRANSPORTATION
 PROPOSED EMERGENCY VEHICLE PREEMPTION
 ROUTE 30 (LINCOLN HIGHWAY) & STATE STREET

SCALE: VERT. _____
 HORIZ. _____
 DATE _____ DRAWN BY _____
 CHECKED BY _____

F. A. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00146-00-TL	COOK	273	106
STA.	TO STA.			
FED. ROAD DIST. NO.	KLINGS	FED. AID PROJECT		

CONTRACT NO. 63003

CABLE PLAN LEGEND	
EXISTING	PROPOSED
	8" TRAFFIC SIGNAL SECTION
	12" TRAFFIC SIGNAL SECTION
	12" PEDESTRIAN SIGNAL SECTION
	12" PEDESTRIAN SIGNAL SECTION
	CONTROLLER CABINET
	SERVICE INSTALLATION
	TELEPHONE CONNECTION
	MAGNETIC DETECTOR
	EMERGENCY VEHICLE LIGHT DETECTOR
	CONFIRMATION BEACON
	PUSHBUTTON DETECTOR
	VEHICLE DETECTOR, INDUCTION LOOP
	2 DENOTES NUMBER OF CONDUCTORS. ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED.
	SIGNAL FACE WITH BACKPLATE
	"P" INDICATES PROGRAMMED HEAD
	RAILROAD CONTROL CABINET
	ILLUMINATED SIGN, FIBER OPTIC "NO LEFT TURN"
	ILLUMINATED SIGN, FIBER OPTIC "NO RIGHT TURN"
	H/C GROUND ROD AT HANDHOLE, DOUBLE HANDHOLE, OR CONTROLLER
	P GROUND ROD AT POST OR MAST ARM POLE
	S GROUND ROD AT ELECTRIC SERVICE INSTALLATION



EMERGENCY VEHICLE PREEMPTION SEQUENCE

PROPOSED EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	← →	↑ ↓

SCHEDULE OF QUANTITIES		
PAY ITEM	UNIT	QUANTITY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	224
LIGHT DETECTOR	EACH	2
LIGHT DETECTOR AMPLIFIER	EACH	1
ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED	FOOT	224

NOTE

* 1. THIS PLAN IS FOR THE PURPOSE OF INSTALLING EMERGENCY VEHICLE PREEMPTION EQUIPMENT AS SHOWN PER PLAN INDICATED IN THE SCHEDULE OF QUANTITIES. ALL OTHER EQUIPMENT SHOWN SHALL BE DISREGARDED.

* PLANS MODIFIED BY ROBINSON ENGINEERING, LTD

REVISIONS	
NAME	DATE
ADDED EV PREEMPTION	01/02/08

CITY OF CHICAGO HEIGHTS LOCATION NO. 44

ILLINOIS DEPARTMENT OF TRANSPORTATION

PROPOSED EMERGENCY VEHICLE PREEMPTION CABLE PLAN, PHASE DESIGNATION DIAGRAM & SCHEDULE OF QUANTITIES ROUTE 30 (LINCOLN HIGHWAY) & STATE STREET

SCALE: VERT. _____ HORIZ. _____ DATE _____ DRAWN BY _____ CHECKED BY _____

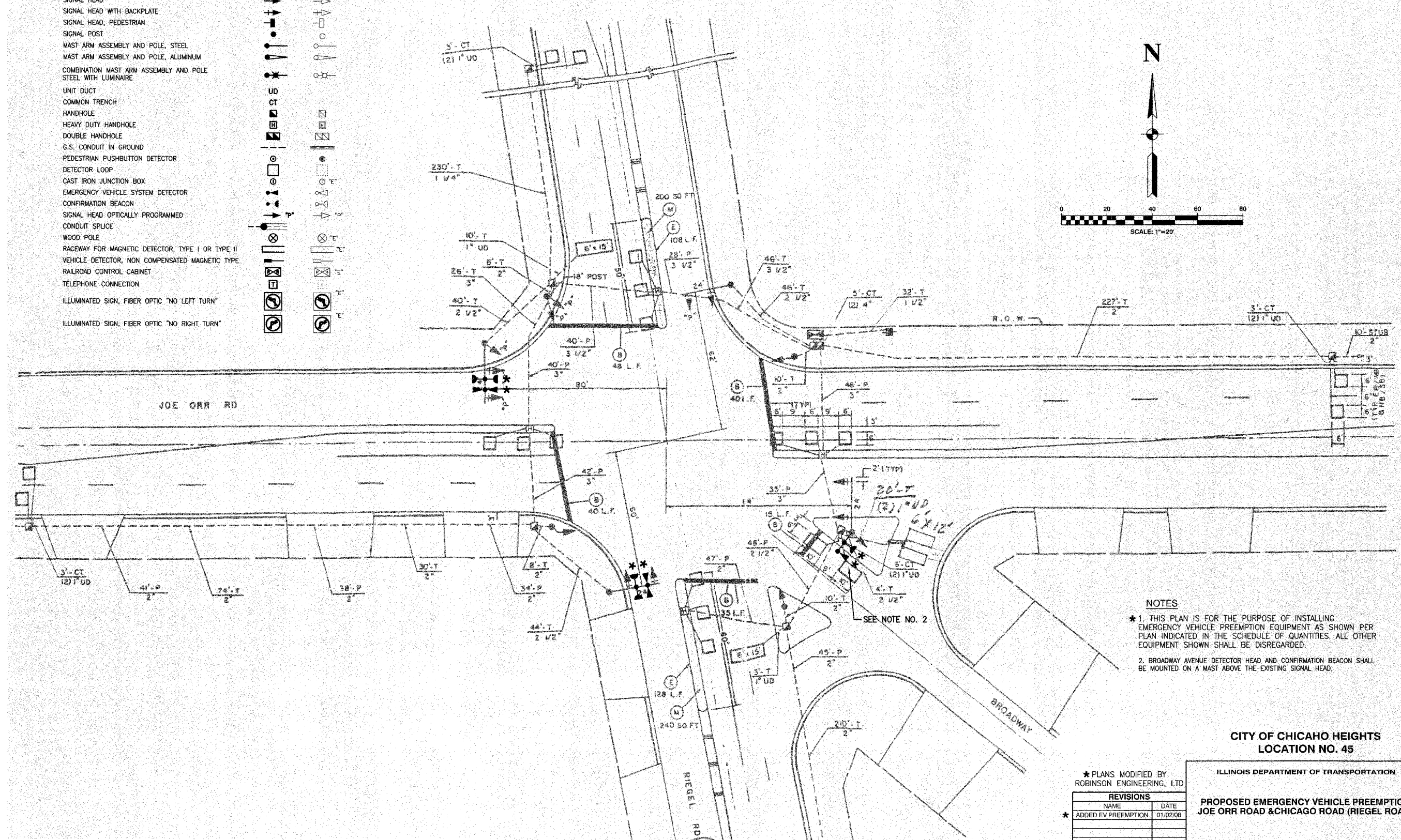
ROBINSON ENGINEERING, LTD.
1700 SOUTH PARK AVENUE SOUTH HOLLAND, ILLINOIS 60473
(708) 331-6100 FAX (708) 251-1625
ILLINOIS DESIGN FIRM REGISTRATION NO. 184021125

F.A. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00146-00-TL	COOK	273	107
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 63003

TRAFFIC SIGNAL LEGEND

	PROPOSED	EXISTING
CONTROLLER		
SERVICE INSTALLATION		
SIGNAL HEAD		
SIGNAL HEAD WITH BACKPLATE		
SIGNAL HEAD, PEDESTRIAN		
SIGNAL POST		
MAST ARM ASSEMBLY AND POLE, STEEL		
MAST ARM ASSEMBLY AND POLE, ALUMINUM		
COMBINATION MAST ARM ASSEMBLY AND POLE STEEL WITH LUMINAIRE		
UNIT DUCT		
COMMON TRENCH		
HANDHOLE		
HEAVY DUTY HANDHOLE		
DOUBLE HANDHOLE		
G.S. CONDUIT IN GROUND		
PEDESTRIAN PUSHBUTTON DETECTOR		
DETECTOR LOOP		
CAST IRON JUNCTION BOX		
EMERGENCY VEHICLE SYSTEM DETECTOR		
CONFIRMATION BEACON		
SIGNAL HEAD OPTICALLY PROGRAMMED		
CONDUIT SPLICE		
WOOD POLE		
RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II		
VEHICLE DETECTOR, NON COMPENSATED MAGNETIC TYPE		
RAILROAD CONTROL CABINET		
TELEPHONE CONNECTION		
ILLUMINATED SIGN, FIBER OPTIC "NO LEFT TURN"		
ILLUMINATED SIGN, FIBER OPTIC "NO RIGHT TURN"		



- NOTES
- * 1. THIS PLAN IS FOR THE PURPOSE OF INSTALLING EMERGENCY VEHICLE PREEMPTION EQUIPMENT AS SHOWN PER PLAN INDICATED IN THE SCHEDULE OF QUANTITIES. ALL OTHER EQUIPMENT SHOWN SHALL BE DISREGARDED.
 - 2. BROADWAY AVENUE DETECTOR HEAD AND CONFIRMATION BEACON SHALL BE MOUNTED ON A MAST ABOVE THE EXISTING SIGNAL HEAD.

CITY OF CHICAGO HEIGHTS
LOCATION NO. 45

* PLANS MODIFIED BY
ROBINSON ENGINEERING, LTD

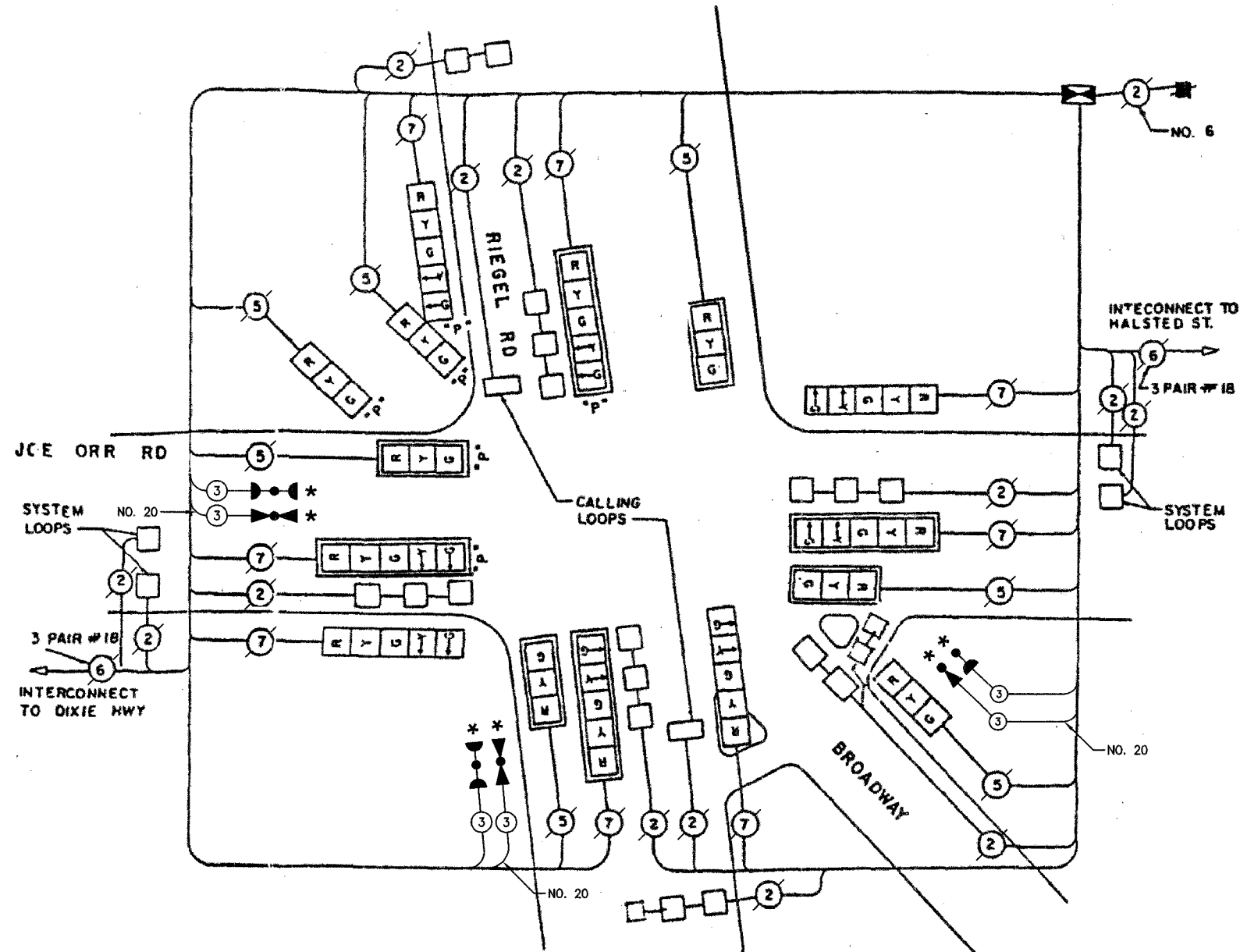
REVISIONS	
NAME	DATE
* ADDED EV PREEMPTION	01/02/06

ILLINOIS DEPARTMENT OF TRANSPORTATION
**PROPOSED EMERGENCY VEHICLE PREEMPTION
JOE ORR ROAD & CHICAGO ROAD (RIEGEL ROAD)**

SCALE: VERT. _____
HORIZ. _____
DATE _____ DRAWN BY _____
CHECKED BY _____

F. A. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00146-00-TL	COOK	273	108
STA.	TO STA.			
FED. ROAD DIST. NO.	ALTERN.	FED. RD PROJECT		

CONTRACT NO. 63003



CABLE PLAN LEGEND

- | EXISTING | PROPOSED | |
|----------|----------|---|
| | | 8" TRAFFIC SIGNAL SECTION |
| | | 12" TRAFFIC SIGNAL SECTION |
| | | 12" PEDESTRIAN SIGNAL SECTION |
| | | 12" PEDESTRIAN SIGNAL SECTION |
| | | CONTROLLER CABINET |
| | | SERVICE INSTALLATION |
| | | TELEPHONE CONNECTION |
| | | MAGNETIC DETECTOR |
| | | EMERGENCY VEHICLE LIGHT DETECTOR |
| | | CONFIRMATION BEACON |
| | | PUSHBUTTON DETECTOR |
| | | VEHICLE DETECTOR, INDUCTION LOOP |
| | | DENOTES NUMBER OF CONDUCTORS. ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED. |
| | | SIGNAL FACE WITH BACKPLATE |
| | | "P" INDICATES PROGRAMMED HEAD |
| | | RAILROAD CONTROL CABINET |
| | | ILLUMINATED SIGN, FIBER OPTIC "NO LEFT TURN" |
| | | ILLUMINATED SIGN, FIBER OPTIC "NO RIGHT TURN" |
| | | H/C GROUND ROD AT HANDHOLE, DOUBLE HANDHOLE, OR CONTROLLER |
| | | P GROUND ROD AT POST OR MAST ARM POLE |
| | | S GROUND ROD AT ELECTRIC SERVICE INSTALLATION |

CABLE PLAN

SCHEDULE OF QUANTITIES

PAY ITEM	UNIT	QUANTITY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	736
LIGHT DETECTOR	EACH	3
LIGHT DETECTOR AMPLIFIER	EACH	1
ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED	FOOT	736

NOTE

* 1. THIS PLAN IS FOR THE PURPOSE OF INSTALLING EMERGENCY VEHICLE PREEMPTION EQUIPMENT AS SHOWN PER PLAN INDICATED IN THE SCHEDULE OF QUANTITIES. ALL OTHER EQUIPMENT SHOWN SHALL BE DISREGARDED.

CITY OF CHICAGO HEIGHTS
LOCATION NO. 45

ILLINOIS DEPARTMENT OF TRANSPORTATION
PROPOSED EMERGENCY VEHICLE PREEMPTION
CABLE PLAN & SCHEDULE OF QUANTITIES
JOE ORR ROAD & CHICAGO ROAD (RIEGEL ROAD)

* PLANS MODIFIED BY
ROBINSON ENGINEERING, LTD

REVISIONS	
NAME	DATE
* ADDED EV PREEMPTION	01/02/08

SCALE: VERT. _____
HORIZ. _____
DATE _____ DRAWN BY _____
CHECKED BY _____

ROBINSON ENGINEERING, LTD.
17000 SOUTH PARK AVENUE SOUTH HOLLAND, ILLINOIS 60473
708.331.4700 FAX 708.331.0828
ILLINOIS DESIGN FIRM REGISTRATION NO. 184201126

F. A. SHEET NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00146-00-TL	COOK	273	109
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 63003

EXISTING SEQUENCE OF OPERATION

MOVEMENT	5 → 1				5 → 2				← 6 1				← 6 2				3		4 ↑ 8		7		FLASH					
PHASE	1+5				2+5				1+6				2+6				3		4+8		7							
INTERVAL	1	2	3	4	5	6A	6B	7A	7B	8	9	10A	10B	11A	11B	12	13	14A	14B	15	16	17		18A	18B	19	20A	20B
CHANGE TO		2+5	1+6	2+6 3 4+8 7		1+6 3 4+8 7		1+5	2+6			2+5 3 4+8 7		1+5	2+6			3 7 4+8			1+5 2+5 1+6 2+6 4+8 7			1+5 2+5 1+6 2+6 7			1+5 2+5 1+6 2+6 7	
JOE ORR ROAD E/B END MAST ARM AND FAR LEFT SIGNALS	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	
JOE ORR ROAD E/B FAR RIGHT SIGNAL	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	
JOE ORR ROAD W/B END MAST ARM AND FAR LEFT SIGNALS	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	
JOE ORR ROAD W/B FAR RIGHT SIGNAL	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	
RIEGAL ROAD S/B END MAST ARM AND FAR LEFT SIGNALS	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	
RIEGAL ROAD S/B FAR RIGHT SIGNAL	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	
RIEGAL ROAD N/B END MAST ARM AND FAR LEFT SIGNALS	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	
RIEGAL ROAD N/B FAR RIGHT SIGNAL	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	
BROADWAY AVENUE ALL SIGNALS	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	

- NOTE
- * 1. THIS PLAN IS FOR THE PURPOSE OF INSTALLING EMERGENCY VEHICLE PREEMPTION EQUIPMENT AS SHOWN PER PLAN INDICATED IN THE SCHEDULE OF QUANTITIES. ALL OTHER EQUIPMENT SHOWN SHALL BE DISREGARDED.
 - 2. EMERGENCY VEHICLE SEQUENCE SHALL PROVIDE PROPER CLEARANCE TO RESUME THE NORMAL SEQUENCE OF OPERATION OR PROPER CLEARANCE INTERVAL TO DISPLAY A DIFFERENT EMERGENCY VEHICLE INTERVAL AFTER EMERGENCY VEHICLE INTERVALS 3, 4, OR 5 ARE TERMINATED.
 - 3. ALL RED INTERVALS FOLLOW PREEMPTION OF OPPOSING PHASES.

PROPOSED EMERGENCY VEHICLE PREEMPTOR SEQUENCE OF OPERATION

NORMAL PHASE	1		5		9		13		15		17		19		PREEMPTOR NO. 3	PREEMPTOR NO. 4	PREEMPTOR NO. 5	CLEARANCE TO NORMAL SEQUENCE									
INTERVAL	1A	1B	1C	1D	1E	1F	1G	1H	1J	1K	1L	1M	1N	1P	1Q	1R	1S	1T	1U	3	4	5					
CHANGE TO	1B	3,4 OR 5	3	1E	4 OR 5	3	1H	4 OR 5	3	1L	4 OR 5	1N	3,4 OR 5	4	1R	3 OR 5	5	1U	3 OR 4								
JOE ORR ROAD E/B END MAST ARM AND FAR LEFT SIGNALS	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
JOE ORR ROAD E/B FAR RIGHT SIGNAL	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
JOE ORR ROAD W/B END MAST ARM AND FAR LEFT SIGNALS	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
JOE ORR ROAD W/B FAR RIGHT SIGNAL	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
RIEGAL ROAD S/B END MAST ARM AND FAR LEFT SIGNALS	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
RIEGAL ROAD S/B FAR RIGHT SIGNAL	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
RIEGAL ROAD N/B END MAST ARM AND FAR LEFT SIGNALS	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
RIEGAL ROAD N/B FAR RIGHT SIGNAL	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
BROADWAY AVENUE ALL SIGNALS	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R

CITY OF CHICAGO HEIGHTS
LOCATION NO. 45

* PLANS MODIFIED BY
ROBINSON ENGINEERING, LTD

REVISIONS	
NAME	DATE
* ADDED EV PREEMPTION	01/02/08

ILLINOIS DEPARTMENT OF TRANSPORTATION

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION
JOE ORR ROAD & CHICAGO ROAD (RIEGEL ROAD)

SCALE: VERT. DRAWN BY BEK
 HORIZ. CHECKED BY MRS

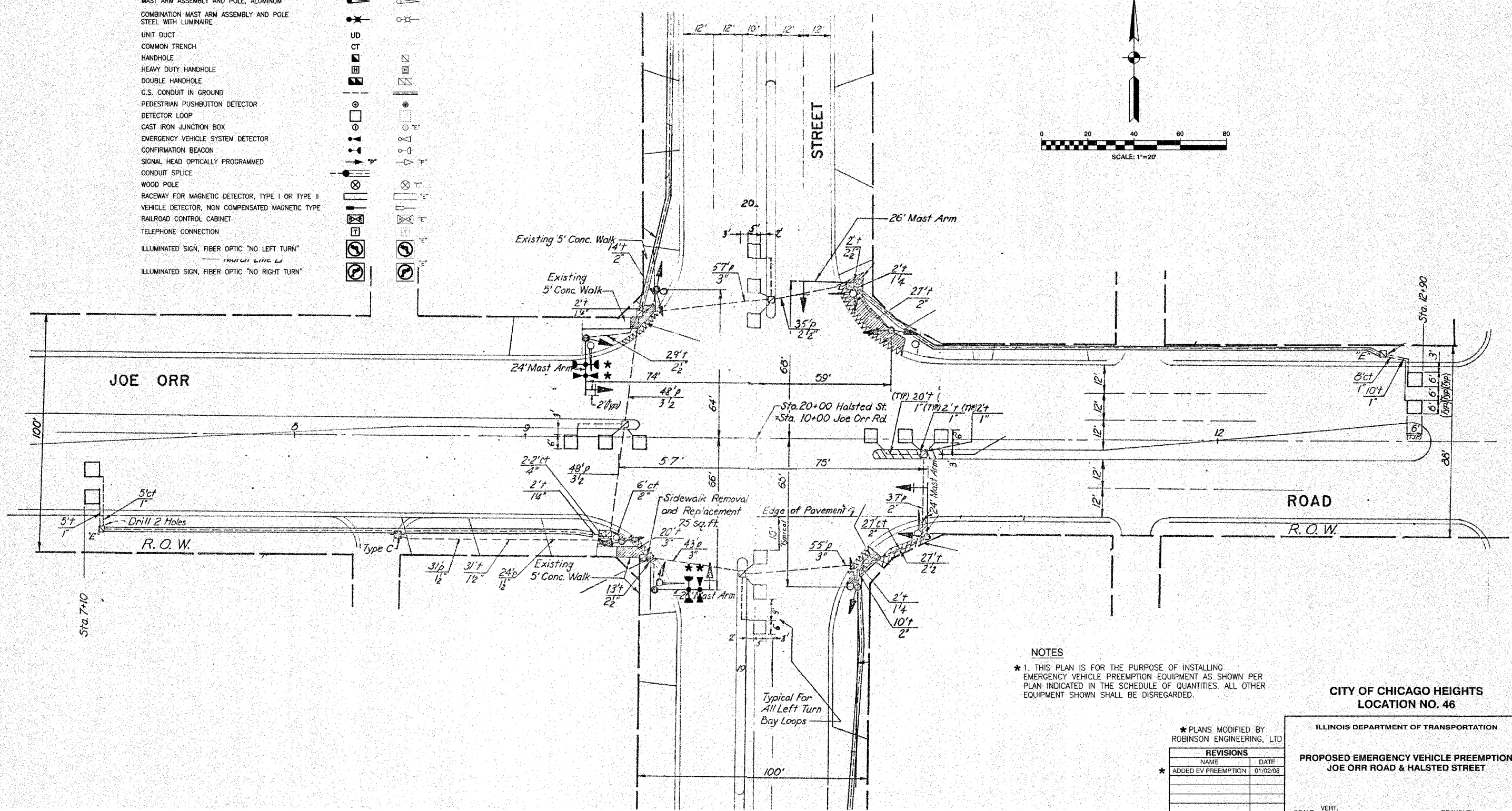
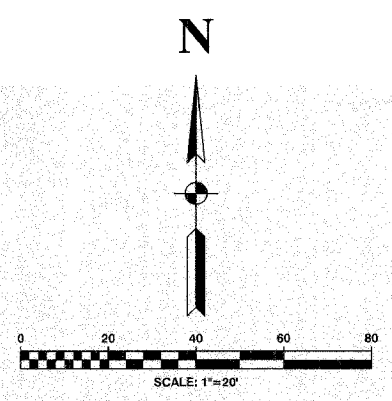
DATE

F. A. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00146-00-TL	COOK	273	110
STA.		TO STA.		
FED. ROAD DIST. NO.	ALINOS	FED. AID PROJECT		

CONTRACT NO. 63003

TRAFFIC SIGNAL LEGEND

	PROPOSED	EXISTING
CONTROLLER		
SERVICE INSTALLATION		
SIGNAL HEAD		
SIGNAL HEAD WITH BACKPLATE		
SIGNAL HEAD, PEDESTRIAN		
SIGNAL POST		
MAST ARM ASSEMBLY AND POLE, STEEL		
MAST ARM ASSEMBLY AND POLE, ALUMINUM		
COMBINATION MAST ARM ASSEMBLY AND POLE STEEL WITH LUMINAIRE		
UNIT DUCT		
COMMON TRENCH		
HANDHOLE		
HEAVY DUTY HANDHOLE		
DOUBLE HANDHOLE		
G.S. CONDUIT IN GROUND		
PEDESTRIAN PUSHBUTTON DETECTOR		
DETECTOR LOOP		
CAST IRON JUNCTION BOX		
EMERGENCY VEHICLE SYSTEM DETECTOR		
CONFIRMATION BEACON		
SIGNAL HEAD OPTICALLY PROGRAMMED		
CONDUIT SPLICE		
WOOD POLE		
RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II		
VEHICLE DETECTOR, NON COMPENSATED MAGNETIC TYPE		
RAILROAD CONTROL CABINET		
TELEPHONE CONNECTION		
ILLUMINATED SIGN, FIBER OPTIC "NO LEFT TURN"		
ILLUMINATED SIGN, FIBER OPTIC "NO RIGHT TURN"		



NOTES
 * 1. THIS PLAN IS FOR THE PURPOSE OF INSTALLING EMERGENCY VEHICLE PREEMPTION EQUIPMENT AS SHOWN PER PLAN INDICATED IN THE SCHEDULE OF QUANTITIES. ALL OTHER EQUIPMENT SHOWN SHALL BE DISREGARDED.

CITY OF CHICAGO HEIGHTS
 LOCATION NO. 46

* PLANS MODIFIED BY ROBINSON ENGINEERING, LTD

REVISIONS	
NAME	DATE
* ADDED EV PREEMPTION	01/02/08

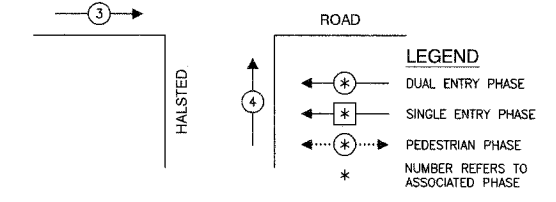
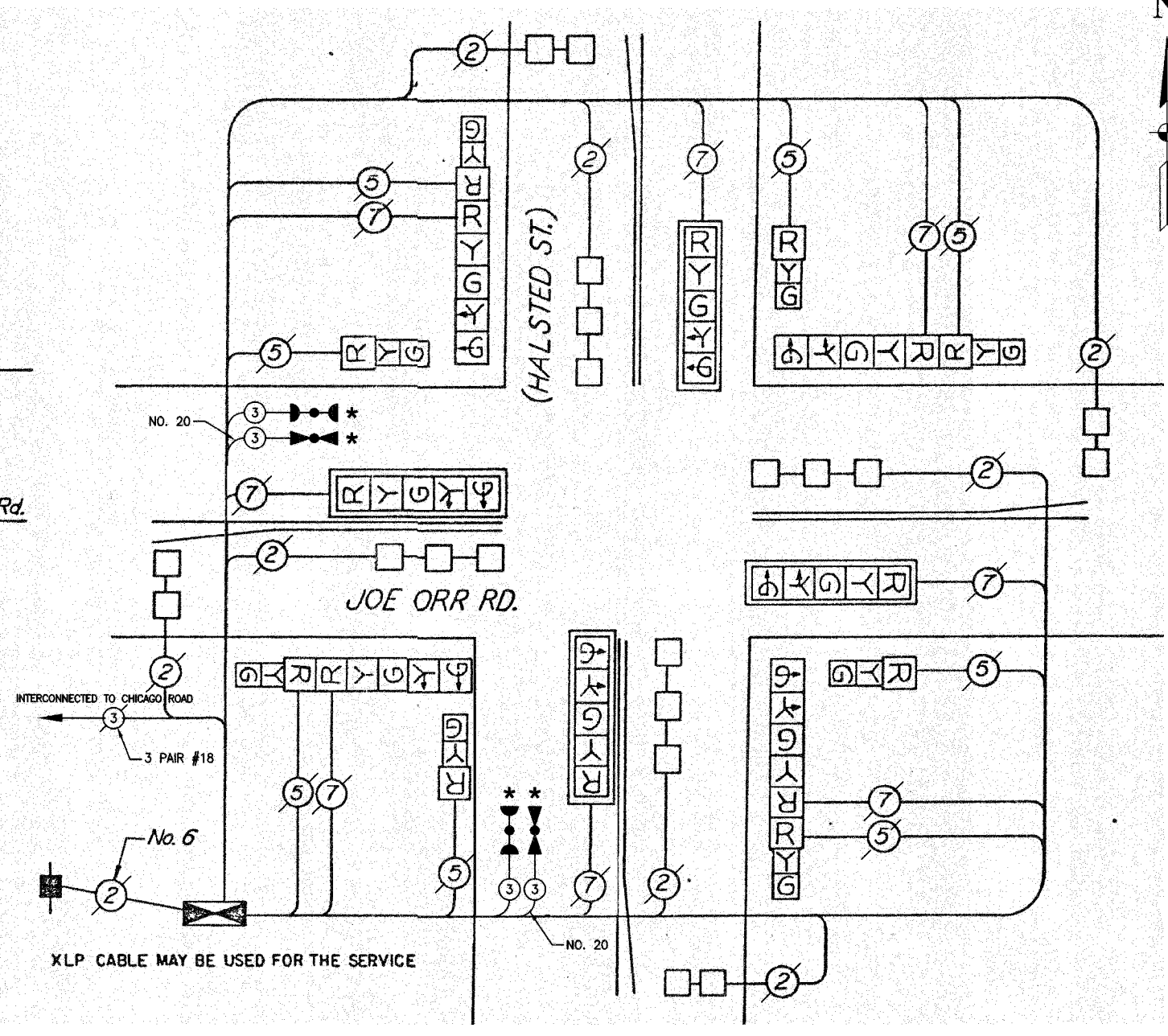
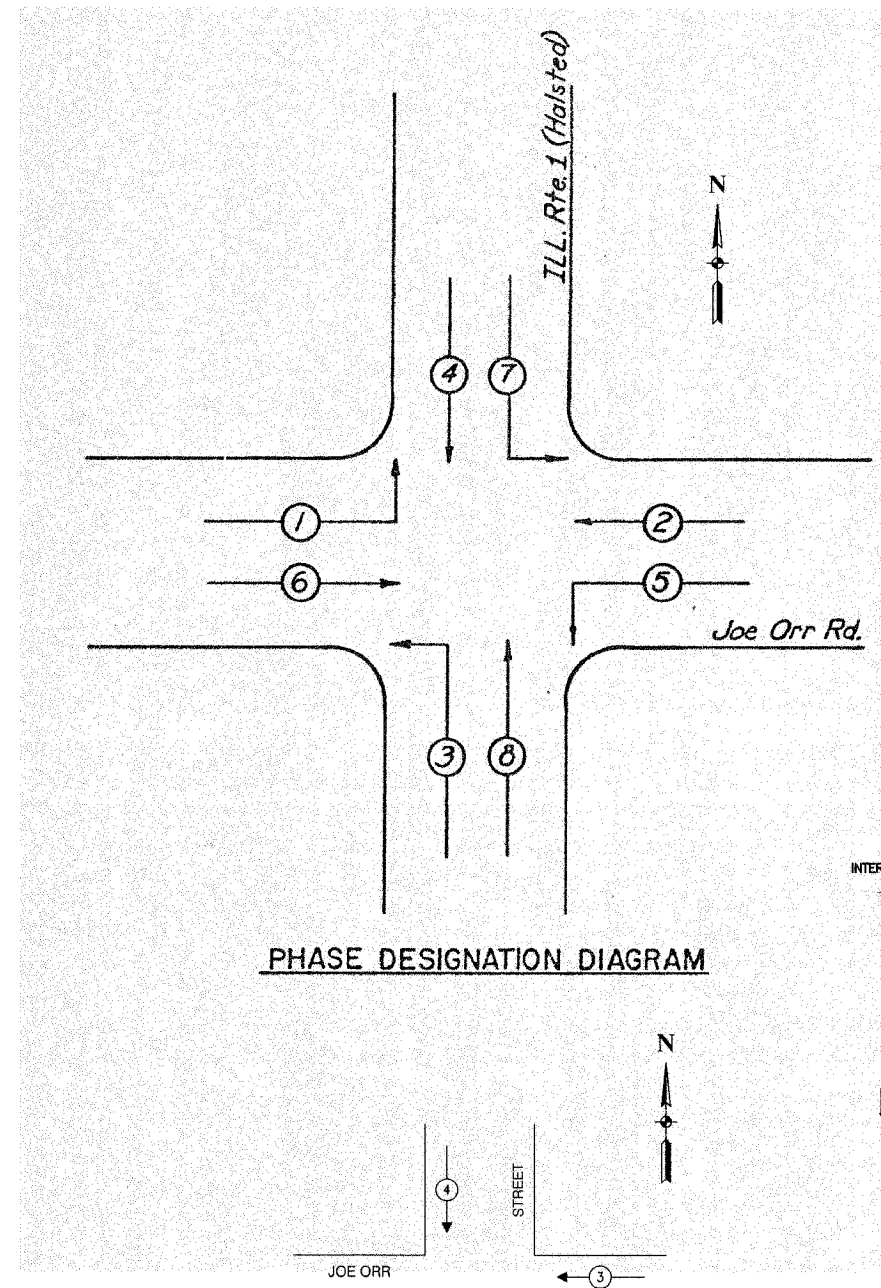
ILLINOIS DEPARTMENT OF TRANSPORTATION	
PROPOSED EMERGENCY VEHICLE PREEMPTION JOE ORR ROAD & HALSTED STREET	
SCALE: VERT. _____	DRAWN BY _____
HORIZ. _____	CHECKED BY _____
DATE _____	

F. A. SHEET NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00146-00-TL	COOK	273	111
STA.	TO STA.			
FED. ROAD DIST. NO.	MARKS	FED. AID PROJECT		

CONTRACT NO. 63003

CABLE PLAN LEGEND

- | | | |
|--|--|---|
| | | 8" TRAFFIC SIGNAL SECTION |
| | | 12" TRAFFIC SIGNAL SECTION |
| | | 12" PEDESTRIAN SIGNAL SECTION |
| | | 12" PEDESTRIAN SIGNAL SECTION |
| | | CONTROLLER CABINET |
| | | SERVICE INSTALLATION |
| | | TELEPHONE CONNECTION |
| | | MAGNETIC DETECTOR |
| | | EMERGENCY VEHICLE LIGHT DETECTOR |
| | | CONFIRMATION BEACON |
| | | PUSHBUTTON DETECTOR |
| | | VEHICLE DETECTOR, INDUCTION LOOP |
| | | DENOTES NUMBER OF CONDUCTORS.
ALL CABLE NO. 14 EXCEPT AS INDICATED.
ALL LOOP DETECTOR CABLE TO BE SHIELDED. |
| | | SIGNAL FACE WITH BACKPLATE
"P" INDICATES PROGRAMMED HEAD |
| | | RAILROAD CONTROL CABINET |
| | | ILLUMINATED SIGN, FIBER OPTIC
"NO LEFT TURN" |
| | | ILLUMINATED SIGN, FIBER OPTIC
"NO RIGHT TURN" |
| | | GROUND ROD AT HANDHOLE,
DOUBLE HANDHOLE, OR CONTROLLER |
| | | GROUND ROD AT POST OR MAST ARM POLE |
| | | GROUND ROD AT ELECTRIC SERVICE INSTALLATION |



PROPOSED EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	← →	↑ ↓

SCHEDULE OF QUANTITIES		
PAY ITEM	UNIT	QUANTITY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	313
LIGHT DETECTOR	EACH	2
LIGHT DETECTOR AMPLIFIER	EACH	1
ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED	FOOT	313

NOTE

* 1. THIS PLAN IS FOR THE PURPOSE OF INSTALLING EMERGENCY VEHICLE PREEMPTION EQUIPMENT AS SHOWN PER PLAN INDICATED IN THE SCHEDULE OF QUANTITIES. ALL OTHER EQUIPMENT SHOWN SHALL BE DISREGARDED.

* PLANS MODIFIED BY ROBINSON ENGINEERING, LTD

REVISIONS	
NAME	DATE
* ADDED EV PREEMPTION	01/02/08

CITY OF CHICAGO HEIGHTS
LOCATION NO. 46

ILLINOIS DEPARTMENT OF TRANSPORTATION

PROPOSED EMERGENCY VEHICLE PREEMPTION
CABLE PLAN, PHASE DESIGNATION DIAGRAM &
SCHEDULE OF QUANTITIES
JOE ORR ROAD & HALSTED STREET

SCALE: VERT. _____
HORIZ. _____

DATE: _____ DRAWN BY: _____
CHECKED BY: _____

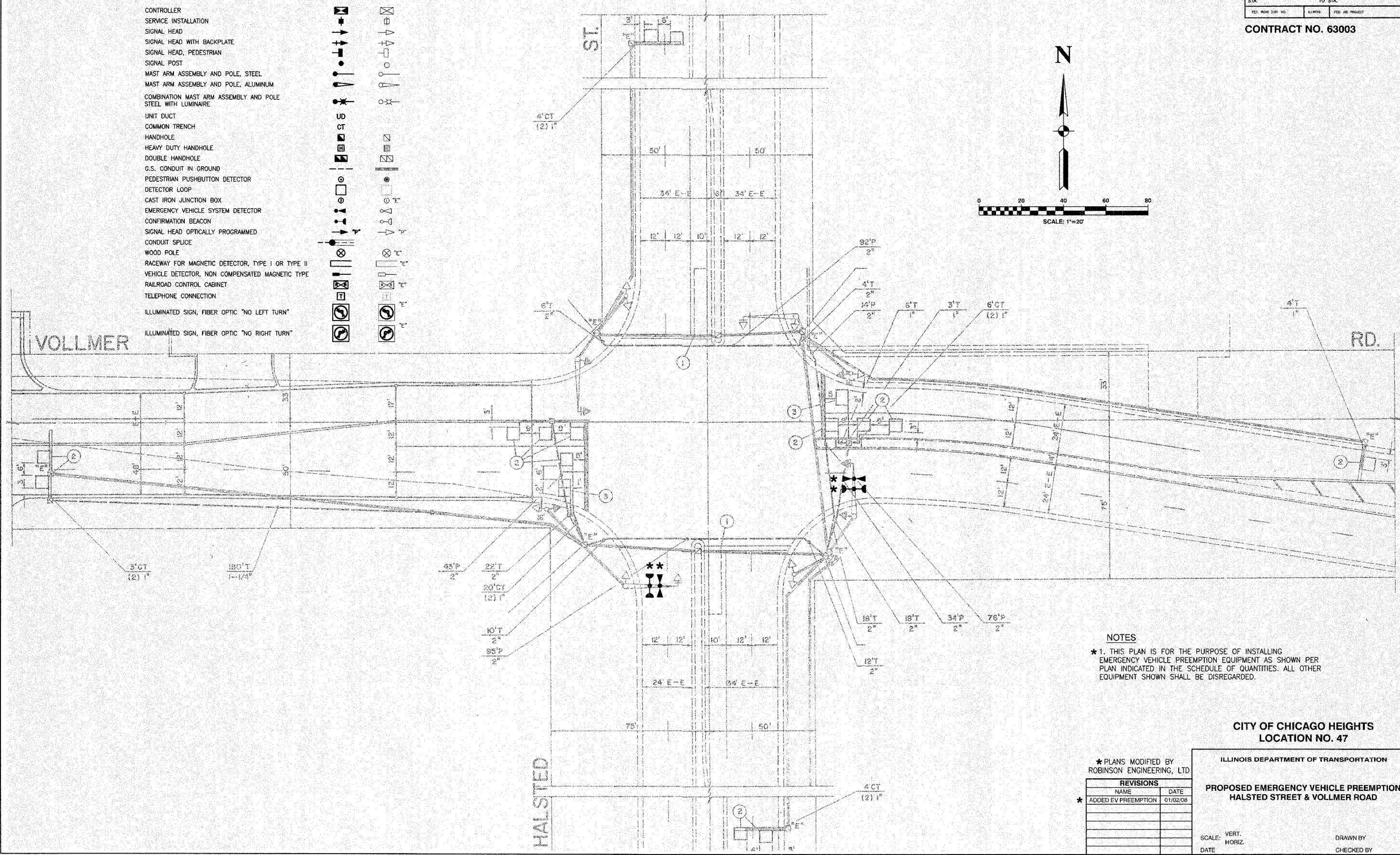
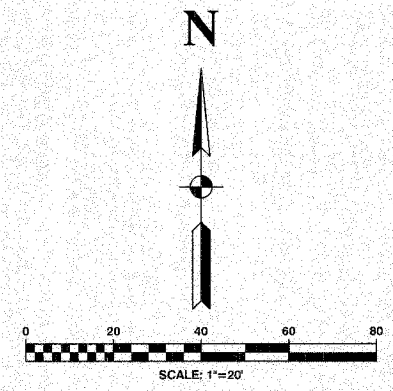
ROBINSON ENGINEERING, LTD.
1700 SOUTH PARK AVENUE SOUTH HOLLAND, ILLINOIS 60473
TEL: 708-470-1000 FAX: 708-231-5888
ILLINOIS DESIGN FIRM REGISTRATION NO. 164021-136

F. A. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00146-00-TL	COOK	273	112
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 63003

TRAFFIC SIGNAL LEGEND

- | | | |
|---|----------|----------|
| | PROPOSED | EXISTING |
| CONTROLLER | | |
| SERVICE INSTALLATION | | |
| SIGNAL HEAD | | |
| SIGNAL HEAD WITH BACKPLATE | | |
| SIGNAL HEAD, PEDESTRIAN | | |
| SIGNAL POST | | |
| MAST ARM ASSEMBLY AND POLE, STEEL | | |
| MAST ARM ASSEMBLY AND POLE, ALUMINUM | | |
| COMBINATION MAST ARM ASSEMBLY AND POLE STEEL WITH LUMINAIRE | | |
| UNIT DUCT | | |
| COMMON TRENCH | | |
| HANDHOLE | | |
| HEAVY DUTY HANDHOLE | | |
| DOUBLE HANDHOLE | | |
| G.S. CONDUIT IN GROUND | | |
| PEDESTRIAN PUSHBUTTON DETECTOR | | |
| DETECTOR LOOP | | |
| CAST IRON JUNCTION BOX | | |
| EMERGENCY VEHICLE SYSTEM DETECTOR | | |
| CONFIRMATION BEACON | | |
| SIGNAL HEAD OPTICALLY PROGRAMMED | | |
| CONDUIT SPLICE | | |
| WOOD POLE | | |
| RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II | | |
| VEHICLE DETECTOR, NON COMPENSATED MAGNETIC TYPE | | |
| RAILROAD CONTROL CABINET | | |
| TELEPHONE CONNECTION | | |
| ILLUMINATED SIGN, FIBER OPTIC "NO LEFT TURN" | | |
| ILLUMINATED SIGN, FIBER OPTIC "NO RIGHT TURN" | | |



NOTES
 * 1. THIS PLAN IS FOR THE PURPOSE OF INSTALLING EMERGENCY VEHICLE PREEMPTION EQUIPMENT AS SHOWN PER PLAN INDICATED IN THE SCHEDULE OF QUANTITIES. ALL OTHER EQUIPMENT SHOWN SHALL BE DISREGARDED.

CITY OF CHICAGO HEIGHTS
 LOCATION NO. 47

* PLANS MODIFIED BY
 ROBINSON ENGINEERING, LTD

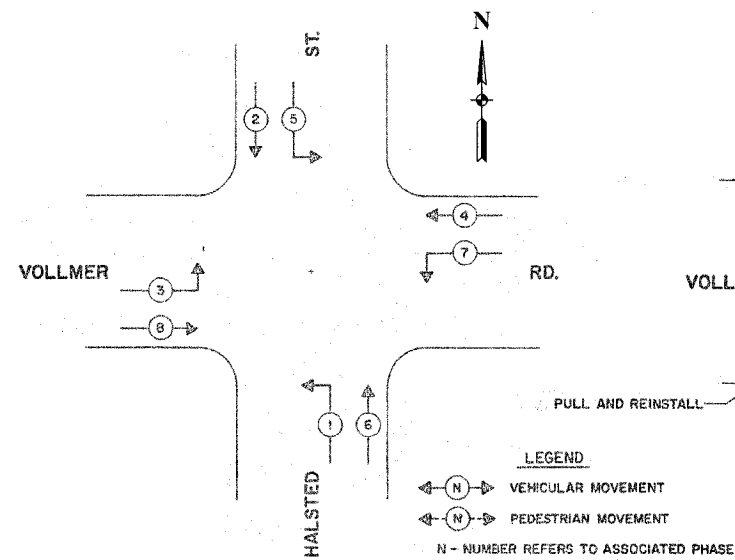
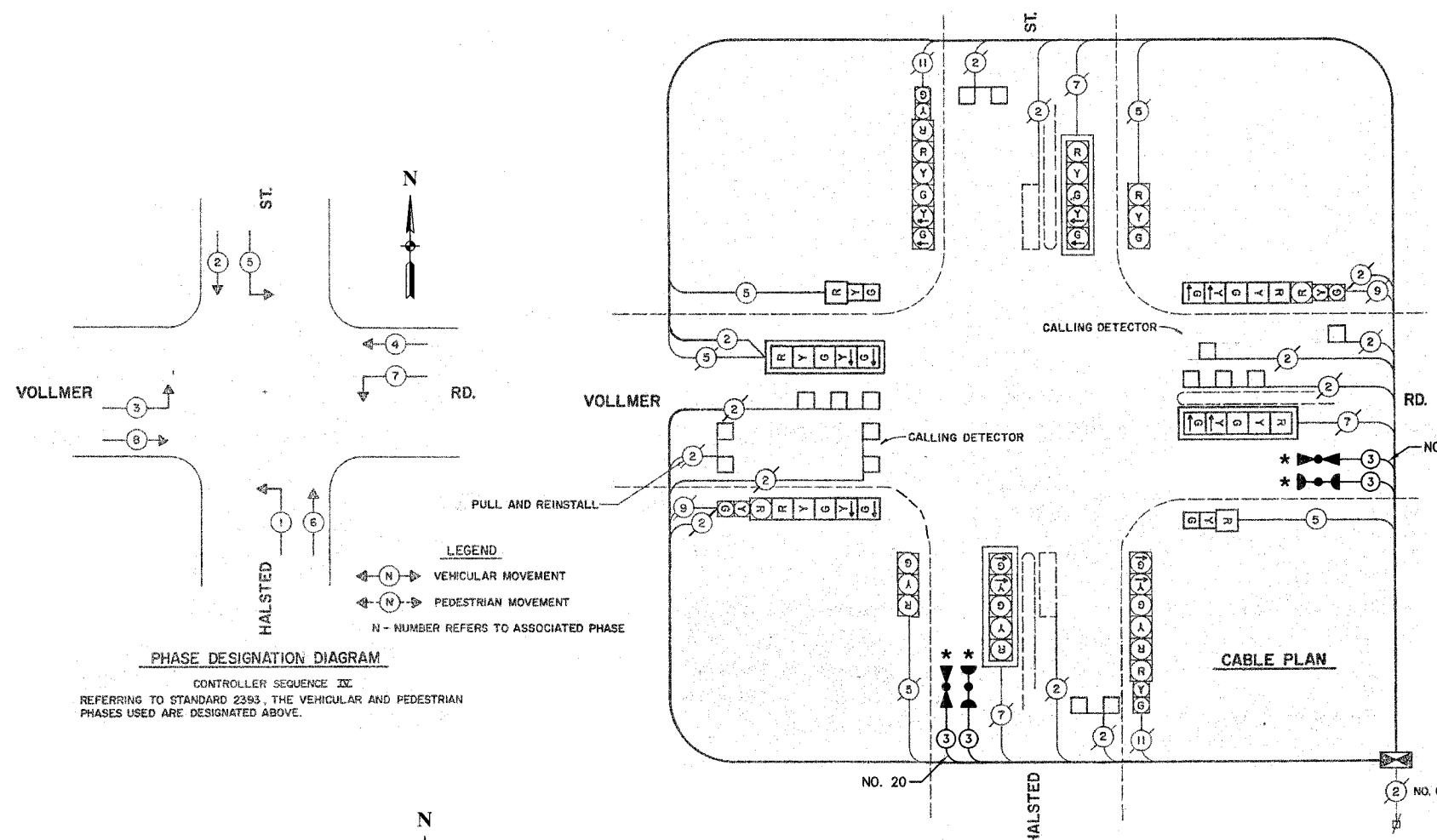
REVISIONS	
NAME	DATE
* ADDED EV PREEMPTION	01/02/08

ILLINOIS DEPARTMENT OF TRANSPORTATION
 PROPOSED EMERGENCY VEHICLE PREEMPTION
 HALSTED STREET & VOLLMER ROAD

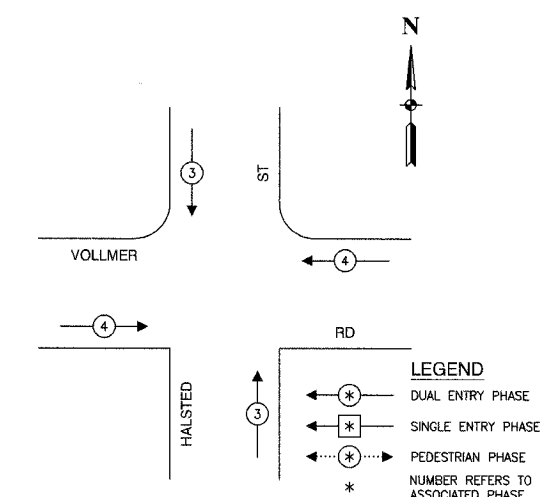
SCALE: VERT. _____
 HORIZ. _____
 DATE _____ DRAWN BY _____
 CHECKED BY _____

F. A. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00146-00-TL	COOK	273	113
STA.	TO STA.			
FED. ROAD DIST. NO.	ALINES	FED. AID PROJECT		

CONTRACT NO. 63003



PHASE DESIGNATION DIAGRAM
 CONTROLLER SEQUENCE III
 REFERRING TO STANDARD 2393, THE VEHICULAR AND PEDESTRIAN PHASES USED ARE DESIGNATED ABOVE.



EMERGENCY VEHICLE PREEMPTION SEQUENCE

PROPOSED EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	↓	←

EXISTING	PROPOSED	
		8" TRAFFIC SIGNAL SECTION
		12" TRAFFIC SIGNAL SECTION
		12" PEDESTRIAN SIGNAL SECTION
		12" PEDESTRIAN SIGNAL SECTION
		CONTROLLER CABINET
		SERVICE INSTALLATION
		TELEPHONE CONNECTION
		MAGNETIC DETECTOR
		EMERGENCY VEHICLE LIGHT DETECTOR
		CONFIRMATION BEACON
		PUSHBUTTON DETECTOR
		VEHICLE DETECTOR, INDUCTION LOOP
		DENOTES NUMBER OF CONDUCTORS. ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED.
		SIGNAL FACE WITH BACKPLATE
		"P" INDICATES PROGRAMMED HEAD
		RAILROAD CONTROL CABINET
		ILLUMINATED SIGN, FIBER OPTIC "NO LEFT TURN"
		ILLUMINATED SIGN, FIBER OPTIC "NO RIGHT TURN"
H/C		GROUND ROD AT HANDHOLE, DOUBLE HANDHOLE, OR CONTROLLER
P		GROUND ROD AT POST OR MAST ARM POLE
S		GROUND ROD AT ELECTRIC SERVICE INSTALLATION

SCHEDULE OF QUANTITIES		
PAY ITEM	UNIT	QUANTITY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	315
LIGHT DETECTOR	EACH	2
LIGHT DETECTOR AMPLIFIER	EACH	1
ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED	FOOT	315

NOTE
 * 1. THIS PLAN IS FOR THE PURPOSE OF INSTALLING EMERGENCY VEHICLE PREEMPTION EQUIPMENT AS SHOWN PER PLAN INDICATED IN THE SCHEDULE OF QUANTITIES. ALL OTHER EQUIPMENT SHOWN SHALL BE DISREGARDED.

* PLANS MODIFIED BY
 ROBINSON ENGINEERING, LTD

REVISIONS	
NAME	DATE
ADDED EV PREEMPTION	01/02/08

**CITY OF CHICAGO HEIGHTS
 LOCATION NO. 47**

ILLINOIS DEPARTMENT OF TRANSPORTATION

**PROPOSED EMERGENCY VEHICLE PREEMPTION
 CABLE PLAN, PHASE DESIGNATION DIAGRAM &
 SCHEDULE OF QUANTITIES
 HALSTED STREET & VOLLMER ROAD**

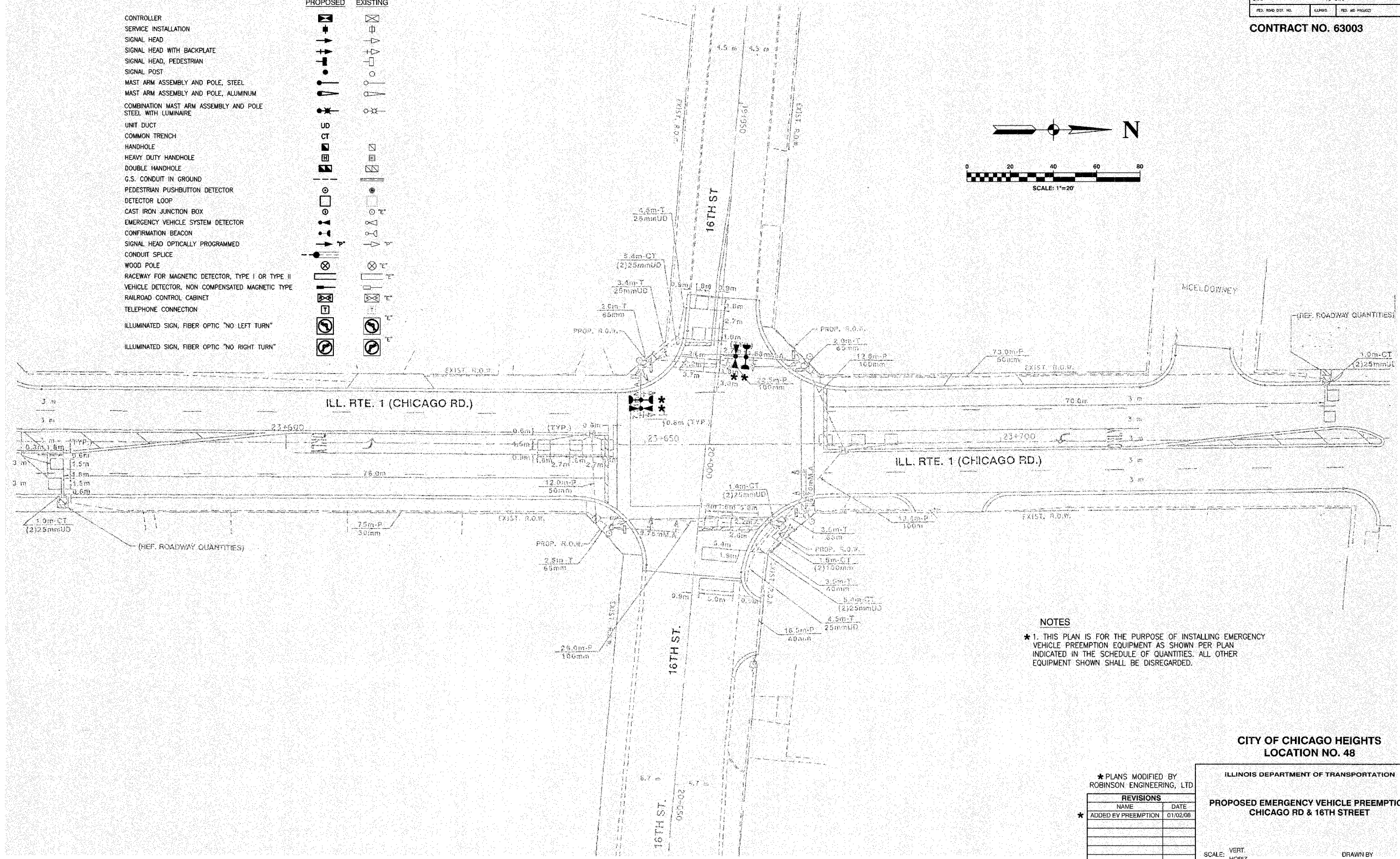
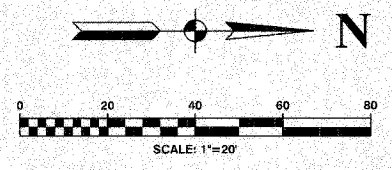
SCALE: VERT. _____ DRAWN BY _____
 HORIZ. _____ CHECKED BY _____
 DATE _____

F.A. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00148-00-TL	COOK	273	114
STA.		TO STA.		
FED. ROAD DIST. NO.	ALPHABETIC	FED. AID PROJECT		

CONTRACT NO. 63003

TRAFFIC SIGNAL LEGEND

- | | | |
|---|----------|----------|
| | PROPOSED | EXISTING |
| CONTROLLER | | |
| SERVICE INSTALLATION | | |
| SIGNAL HEAD | | |
| SIGNAL HEAD WITH BACKPLATE | | |
| SIGNAL HEAD, PEDESTRIAN | | |
| SIGNAL POST | | |
| MAST ARM ASSEMBLY AND POLE, STEEL | | |
| MAST ARM ASSEMBLY AND POLE, ALUMINUM | | |
| COMBINATION MAST ARM ASSEMBLY AND POLE STEEL WITH LUMINAIRE | | |
| UNIT DUCT | | |
| COMMON TRENCH | | |
| HANDHOLE | | |
| HEAVY DUTY HANDHOLE | | |
| DOUBLE HANDHOLE | | |
| G.S. CONDUIT IN GROUND | | |
| PEDESTRIAN PUSHBUTTON DETECTOR | | |
| DETECTOR LOOP | | |
| CAST IRON JUNCTION BOX | | |
| EMERGENCY VEHICLE SYSTEM DETECTOR | | |
| CONFIRMATION BEACON | | |
| SIGNAL HEAD OPTICALLY PROGRAMMED | | |
| CONDUIT SPLICE | | |
| WOOD POLE | | |
| RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II | | |
| VEHICLE DETECTOR, NON COMPENSATED MAGNETIC TYPE | | |
| RAILROAD CONTROL CABINET | | |
| TELEPHONE CONNECTION | | |
| ILLUMINATED SIGN, FIBER OPTIC "NO LEFT TURN" | | |
| ILLUMINATED SIGN, FIBER OPTIC "NO RIGHT TURN" | | |



NOTES
 * 1. THIS PLAN IS FOR THE PURPOSE OF INSTALLING EMERGENCY VEHICLE PREEMPTION EQUIPMENT AS SHOWN PER PLAN INDICATED IN THE SCHEDULE OF QUANTITIES. ALL OTHER EQUIPMENT SHOWN SHALL BE DISREGARDED.

CITY OF CHICAGO HEIGHTS
 LOCATION NO. 48

* PLANS MODIFIED BY
 ROBINSON ENGINEERING, LTD

REVISIONS	
NAME	DATE
* ADDED EV PREEMPTION	01/02/08

ILLINOIS DEPARTMENT OF TRANSPORTATION
 PROPOSED EMERGENCY VEHICLE PREEMPTION
 CHICAGO RD & 16TH STREET

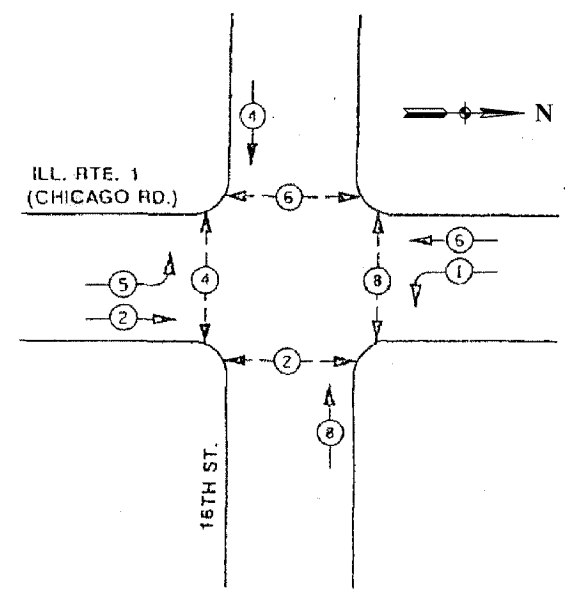
SCALE: VERT. _____
 HORIZ. _____
 DATE _____ DRAWN BY _____
 CHECKED BY _____

ROBINSON ENGINEERING, LTD.
 17000 SOUTH PARK AVENUE SOUTH HOLLAND, ILLINOIS 60473
 (708) 321-6700 FAX (708) 321-3008
 ILLINOIS DESIGN FIRM REGISTRATION NO. 18-001125

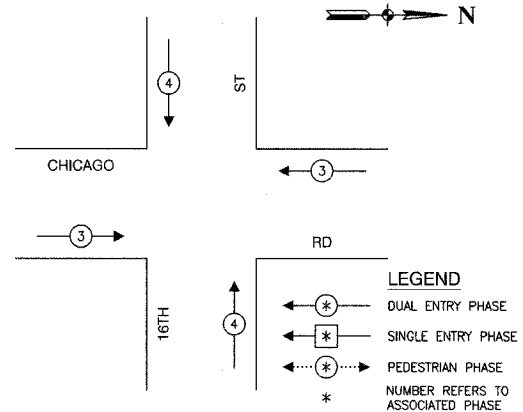
F. A. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00146-00-TL	COOK	273	115
STA.	TO STA.			
FED. ROAD DIST. NO.	ELONGS	FED. AID PROJECT		

CONTRACT NO. 63003

CONTROLLER SEQUENCE
 REFERRING TO STANDARD 857001, THE VEHICULAR AND PEDESTRIAN PHASES USED ARE DESIGNATED BELOW.

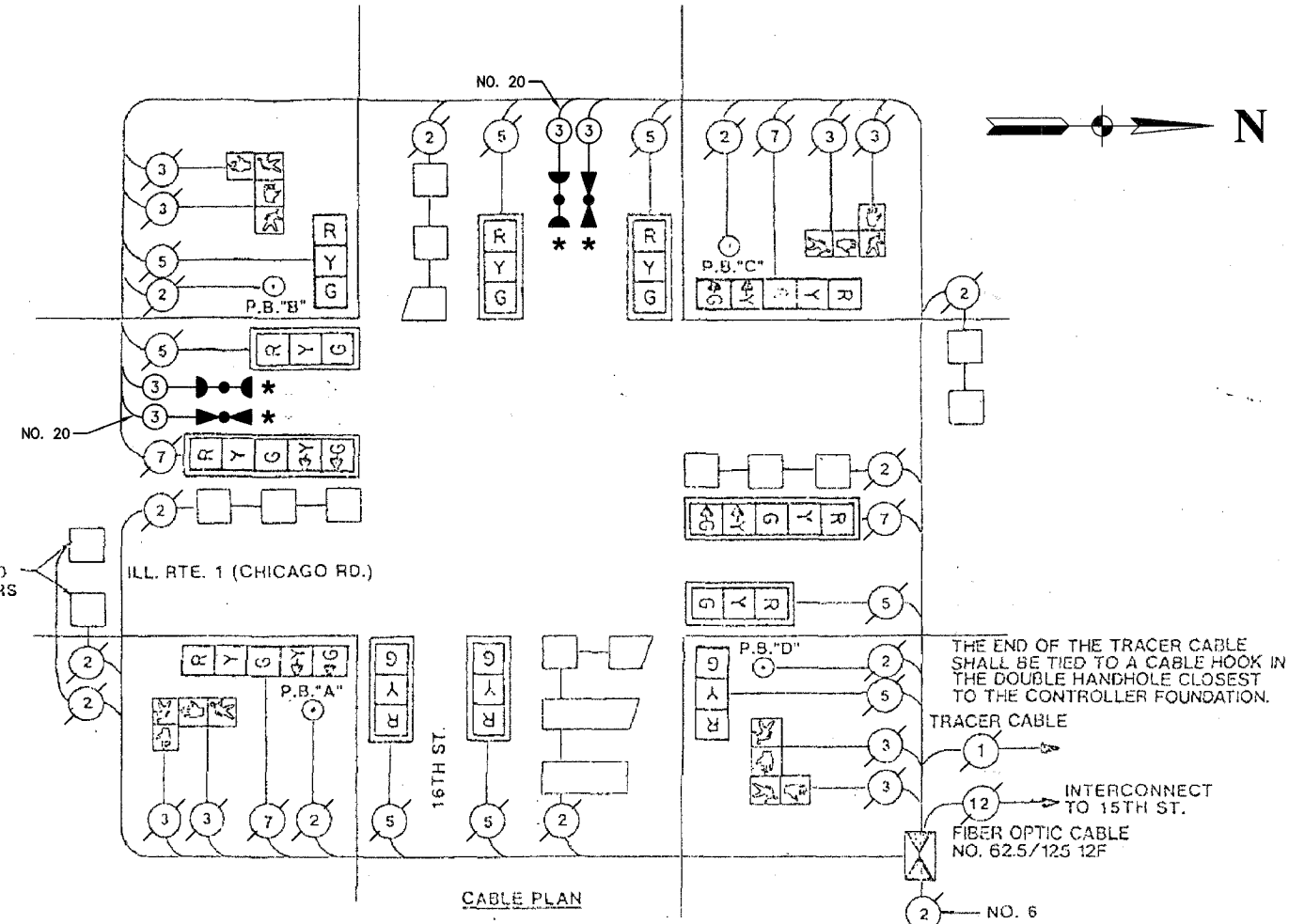


PHASE DESIGNATION DIAGRAM
 DUAL ENTRY - ALL LEGS
 PROTECTED/PERMITTED LEFT TURN PHASING



EMERGENCY VEHICLE PREEMPTION SEQUENCE

PROPOSED EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	← →	↑ ↓



NOTE:
 PUSHBUTTON "A" SHALL PLACE A CALL IN PHASES 2 AND 4
 PUSHBUTTON "B" SHALL PLACE A CALL IN PHASES 4 AND 6
 PUSHBUTTON "C" SHALL PLACE A CALL IN PHASES 6 AND 8
 PUSHBUTTON "D" SHALL PLACE A CALL IN PHASES 2 AND 8

SCHEDULE OF QUANTITIES		
PAY ITEM	UNIT	QUANTITY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	454
LIGHT DETECTOR	EACH	2
LIGHT DETECTOR AMPLIFIER	EACH	1
ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED	FOOT	454

NOTE
 * 1. THIS PLAN IS FOR THE PURPOSE OF INSTALLING EMERGENCY VEHICLE PREEMPTION EQUIPMENT AS SHOWN PER PLAN INDICATED IN THE SCHEDULE OF QUANTITIES. ALL OTHER EQUIPMENT SHOWN SHALL BE DISREGARDED.

EXISTING	PROPOSED	
		8" TRAFFIC SIGNAL SECTION
		12" TRAFFIC SIGNAL SECTION
		12" PEDESTRIAN SIGNAL SECTION
		12" PEDESTRIAN SIGNAL SECTION
		CONTROLLER CABINET
		SERVICE INSTALLATION
		TELEPHONE CONNECTION
		MAGNETIC DETECTOR
		EMERGENCY VEHICLE LIGHT DETECTOR
		CONFIRMATION BEACON
		PUSHBUTTON DETECTOR
		VEHICLE DETECTOR, INDUCTION LOOP
		DENOTES NUMBER OF CONDUCTORS. ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED.
		SIGNAL FACE WITH BACKPLATE
		"P" INDICATES PROGRAMMED HEAD
		RAILROAD CONTROL CABINET
		ILLUMINATED SIGN, FIBER OPTIC "NO LEFT TURN"
		ILLUMINATED SIGN, FIBER OPTIC "NO RIGHT TURN"
		H/C GROUND ROD AT HANDHOLE, DOUBLE HANDHOLE, OR CONTROLLER
		P GROUND ROD AT POST OR MAST ARM POLE
		S GROUND ROD AT ELECTRIC SERVICE INSTALLATION

CITY OF CHICAGO HEIGHTS
 LOCATION NO. 48

ILLINOIS DEPARTMENT OF TRANSPORTATION
 PROPOSED EMERGENCY VEHICLE PREEMPTION CABLE PLAN, PHASE DESIGNATION DIAGRAM & SCHEDULE OF QUANTITIES
 CHICAGO ROAD & 16TH STREET

* PLANS MODIFIED BY ROBINSON ENGINEERING, LTD.

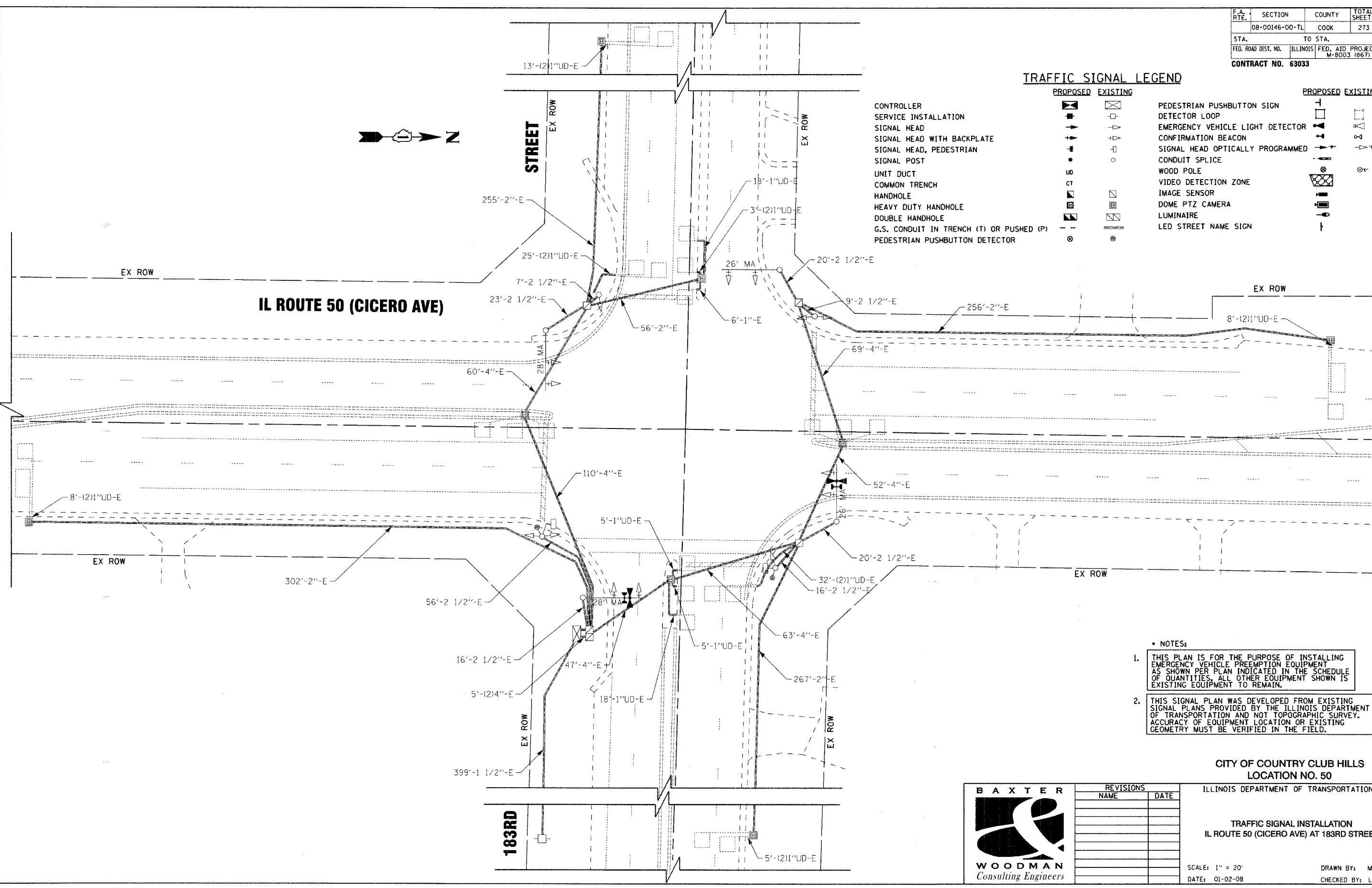
REVISIONS	
NAME	DATE
* ADDED EV PREEMPTION	01/02/08

SCALE: VERT. _____
 HORIZ. _____
 DATE _____ DRAWN BY _____
 CHECKED BY _____

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00146-00-TL	COOK	273	118
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	M-8003 (867)	
CONTRACT NO. 63033				

TRAFFIC SIGNAL LEGEND

	PROPOSED	EXISTING		PROPOSED	EXISTING
CONTROLLER			PEDESTRIAN PUSHBUTTON SIGN		
SERVICE INSTALLATION			DETECTOR LOOP		
SIGNAL HEAD			EMERGENCY VEHICLE LIGHT DETECTOR		
SIGNAL HEAD WITH BACKPLATE			CONFIRMATION BEACON		
SIGNAL HEAD, PEDESTRIAN			SIGNAL HEAD OPTICALLY PROGRAMMED		
SIGNAL POST			CONDUIT SPLICE		
UNIT DUCT			WOOD POLE		
COMMON TRENCH			VIDEO DETECTION ZONE		
HANDHOLE			IMAGE SENSOR		
HEAVY DUTY HANDHOLE			DOMED PTZ CAMERA		
DOUBLE HANDHOLE			LUMINAIRE		
G.S. CONDUIT IN TRENCH (T) OR PUSHED (P)			LED STREET NAME SIGN		
PEDESTRIAN PUSHBUTTON DETECTOR					



- NOTES:
1. THIS PLAN IS FOR THE PURPOSE OF INSTALLING EMERGENCY VEHICLE PREEMPTION EQUIPMENT AS SHOWN PER PLAN INDICATED IN THE SCHEDULE OF QUANTITIES. ALL OTHER EQUIPMENT SHOWN IS EXISTING EQUIPMENT TO REMAIN.
 2. THIS SIGNAL PLAN WAS DEVELOPED FROM EXISTING SIGNAL PLANS PROVIDED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION AND NOT TOPOGRAPHIC SURVEY. ACCURACY OF EQUIPMENT LOCATION OR EXISTING GEOMETRY MUST BE VERIFIED IN THE FIELD.

CITY OF COUNTRY CLUB HILLS
LOCATION NO. 50

ILLINOIS DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL INSTALLATION
IL ROUTE 50 (CICERO AVE) AT 183RD STREET

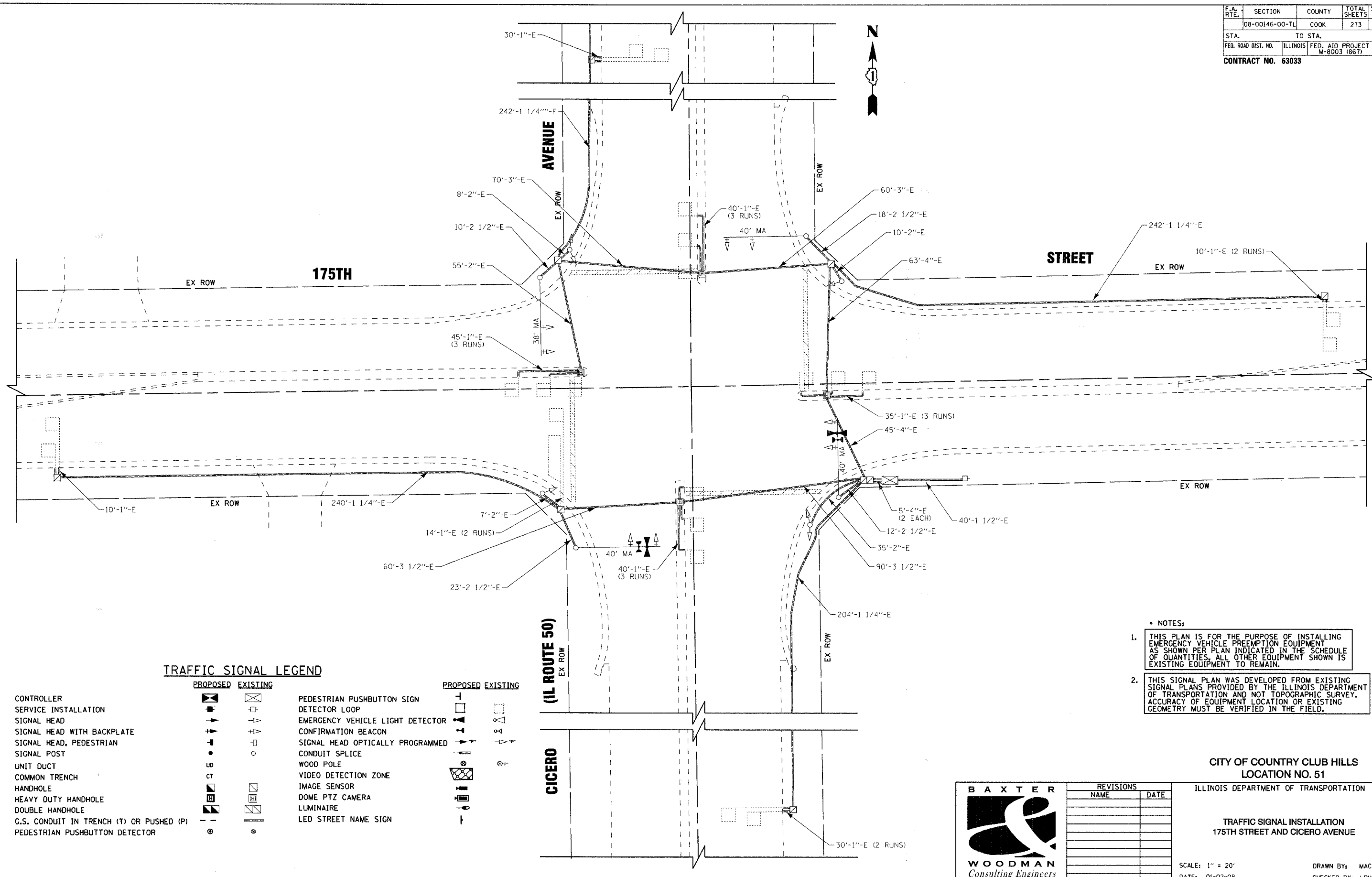
SCALE: 1" = 20'
DATE: 01-02-08
DRAWN BY: MAC
CHECKED BY: LDH



REVISIONS	
NAME	DATE

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 STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 LICENSE NO. 08-000071 - EXPIRES 12/31/2009
 PROJECT NO. 08-00146-00-TL-118
 DATE: 01-02-08

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00146-00-TL	COOK	273	120
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	M-8003 (867)	
CONTRACT NO. 63033				



TRAFFIC SIGNAL LEGEND

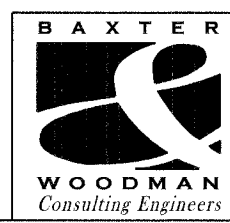
PROPOSED		EXISTING		PROPOSED		EXISTING	
CONTROLLER			PEDESTRIAN PUSHBUTTON SIGN			DETECTOR LOOP	
SERVICE INSTALLATION			EMERGENCY VEHICLE LIGHT DETECTOR			CONFIRMATION BEACON	
SIGNAL HEAD			SIGNAL HEAD OPTICALLY PROGRAMMED			CONDUIT SPLICE	
SIGNAL HEAD WITH BACKPLATE			WOOD POLE			VIDEO DETECTION ZONE	
SIGNAL HEAD, PEDESTRIAN			IMAGE SENSOR			LED STREET NAME SIGN	
SIGNAL POST							
UNIT DUCT							
COMMON TRENCH							
HANDHOLE							
HEAVY DUTY HANDHOLE							
DOUBLE HANDHOLE							
G.S. CONDUIT IN TRENCH (T) OR PUSHED (P)							
PEDESTRIAN PUSHBUTTON DETECTOR							

- NOTES:**
- THIS PLAN IS FOR THE PURPOSE OF INSTALLING EMERGENCY VEHICLE PREEMPTION EQUIPMENT AS SHOWN PER PLAN INDICATED IN THE SCHEDULE OF QUANTITIES. ALL OTHER EQUIPMENT SHOWN IS EXISTING EQUIPMENT TO REMAIN.
 - THIS SIGNAL PLAN WAS DEVELOPED FROM EXISTING SIGNAL PLANS PROVIDED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION AND NOT TOPOGRAPHIC SURVEY. ACCURACY OF EQUIPMENT LOCATION OR EXISTING GEOMETRY MUST BE VERIFIED IN THE FIELD.

CITY OF COUNTRY CLUB HILLS
LOCATION NO. 51

ILLINOIS DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL INSTALLATION
175TH STREET AND CICERO AVENUE



REVISIONS	
NAME	DATE

SCALE: 1" = 20'
DATE: 01-02-08

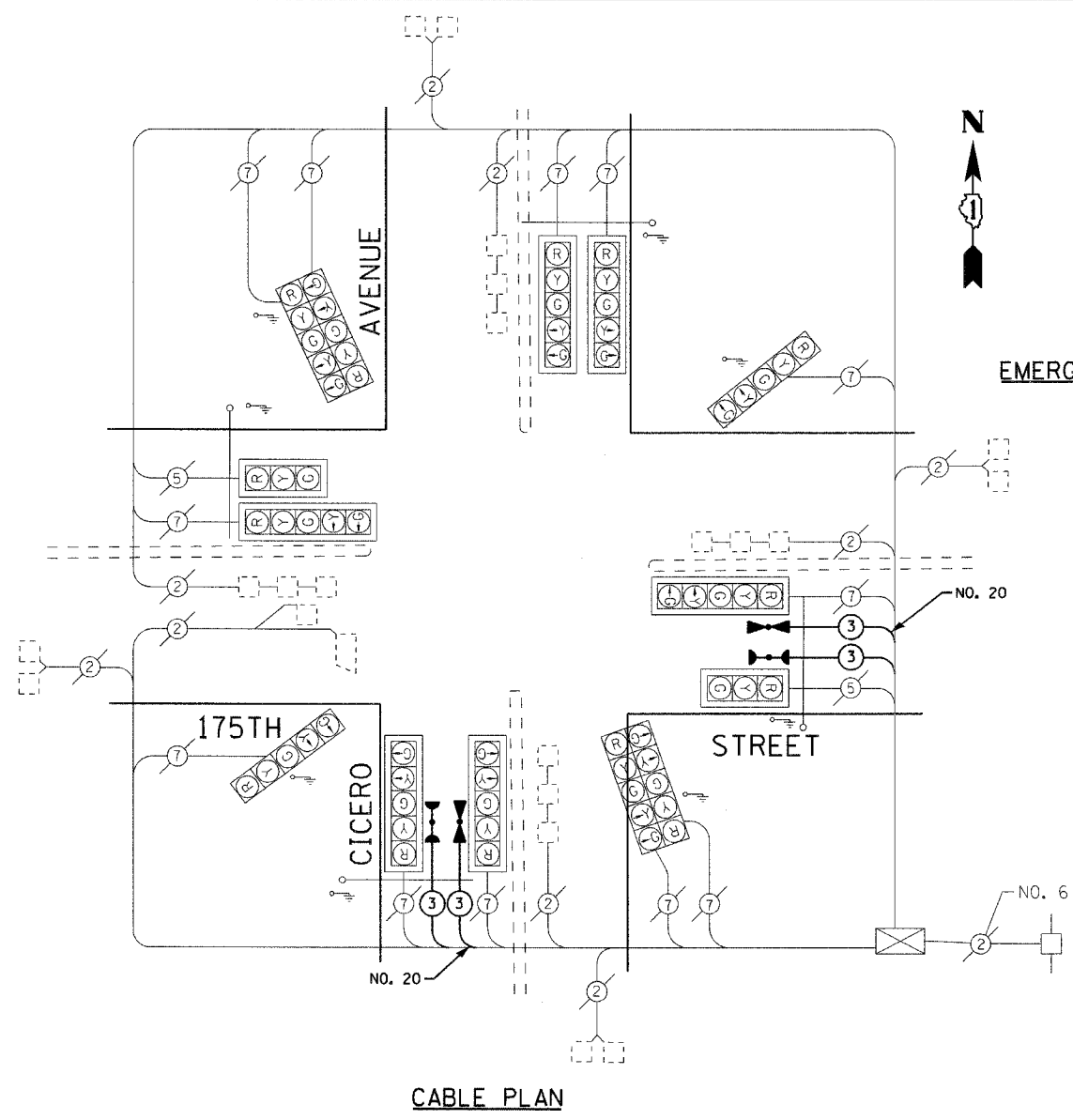
DRAWN BY: MAC
CHECKED BY: LDH

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 STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 LICENSE NO. 184-000277 - EXPIRES 4/30/2009
 PROJECT: 175TH ST AND CICERO AVENUE TRAFFIC SIGNALS
 SHEET: 120 OF 273

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00146-00-TL	COOK	273	121
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	M-8003 (867)	
CONTRACT NO. 63033				

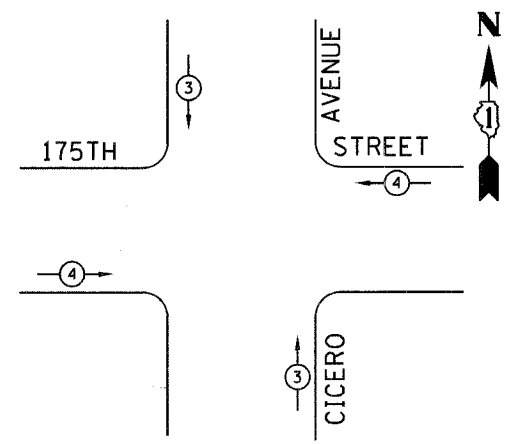
CABLE PLAN LEGEND

- | EXISTING | PROPOSED | |
|----------|----------|--|
| | | 8" (200mm) TRAFFIC SIGNAL SECTION |
| | | 12" (300mm) TRAFFIC SIGNAL SECTION |
| | | 12" (300mm) PEDESTRIAN SIGNAL SECTION |
| | | 12" (300mm) PEDESTRIAN SIGNAL SECTION |
| | | CONTROLLER CABINET |
| | | SERVICE INSTALLATION |
| | | TELEPHONE CONNECTION |
| | | VEHICLE DETECTOR, INDUCTION LOOP |
| | | MAGNETIC DETECTOR |
| | | EMERGENCY VEHICLE LIGHT DETECTOR |
| | | CONFIRMATION BEACON |
| | | PUSHBUTTON DETECTOR |
| | | DENOTES NUMBER OF CONDUCTORS. ALL EXISTING CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED. |
| | | GROUND CABLE IN CONDUIT, NO. 6 SOLID COPPER (GREEN) |
| | | FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125 2-MM12F SMI2F |
| | | SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED HEAD |
| | | RAILROAD CONTROL CABINET |
| | | ILLUMINATED SIGN, NO LEFT TURN |
| | | ILLUMINATED SIGN, NO RIGHT TURN |
| | | GROUND CABLE IC NO.6 |
| | | GROUND ROD AT HANDHOLE (H), DOUBLE HANDHOLE (H), OR CONTROLLER (C) |
| | | GROUND ROD AT POST (P), OR MAST ARM POLE (MA) |
| | | GROUND ROD AT ELECTRIC SERVICE INSTALLATION |
| | | LUMINARE |



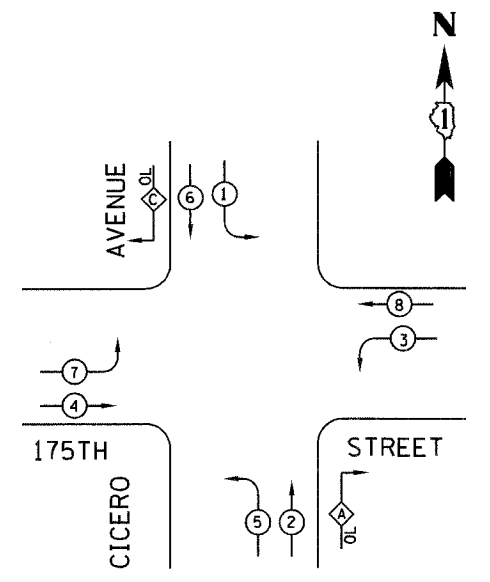
CABLE PLAN

EMERGENCY VEHICLE PREEMPTION SEQUENCE



PROPOSED EMERGENCY VEHICLE PREEMPTION		
EMERGENCY VEHICLE PREEMPTION	3	4
MOVEMENT	↑	→

CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE	DISPLAY
A	= 2 + 3	- 2	
C	= 6 + 7	- 6	

LEGEND

- DUAL ENTRY PHASE
- SINGLE ENTRY PHASE
- OVERLAP
- PEDESTRIAN PHASE
- NUMBER REFERS TO ASSOCIATED PHASE

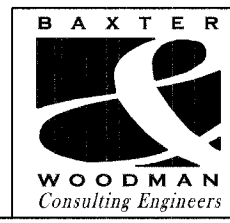
SCHEDULE OF QUANTITIES

PAY ITEM	UNIT	QUANTITY
ELECTRIC CABLE IN CONDUIT, NO. 20 3/C, TWISTED SHIELDED	FOOT	376
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 3C	FOOT	376
LIGHT DETECTOR	EACH	2
LIGHT DETECTOR AMPLIFIER	EACH	1
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1

CITY OF COUNTRY CLUB HILLS
LOCATION NO. 51

ILLINOIS DEPARTMENT OF TRANSPORTATION
CABLE PLAN,
EMERGENCY VEHICLE PREEMPTION
SEQUENCE OF OPERATION,
PHASE DESIGNATION DIAGRAM &
TRAFFIC SIGNAL SEQUENCE OF OPERATIONS
175TH STREET & CICERO AVENUE

SCALE: NONE
DATE: 01-02-08
DRAWN BY: MAC
CHECKED BY: LDH



REVISIONS	
NAME	DATE

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 LICENSE NO. 08-000121 - EXPIRES 4/30/2009
 PROJECT NO. 08-00146-00-TL
 DRAWING NO. 121

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00146-00-TL	COOK	273	122
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	M-8003 (867)	
CONTRACT NO. 63033				

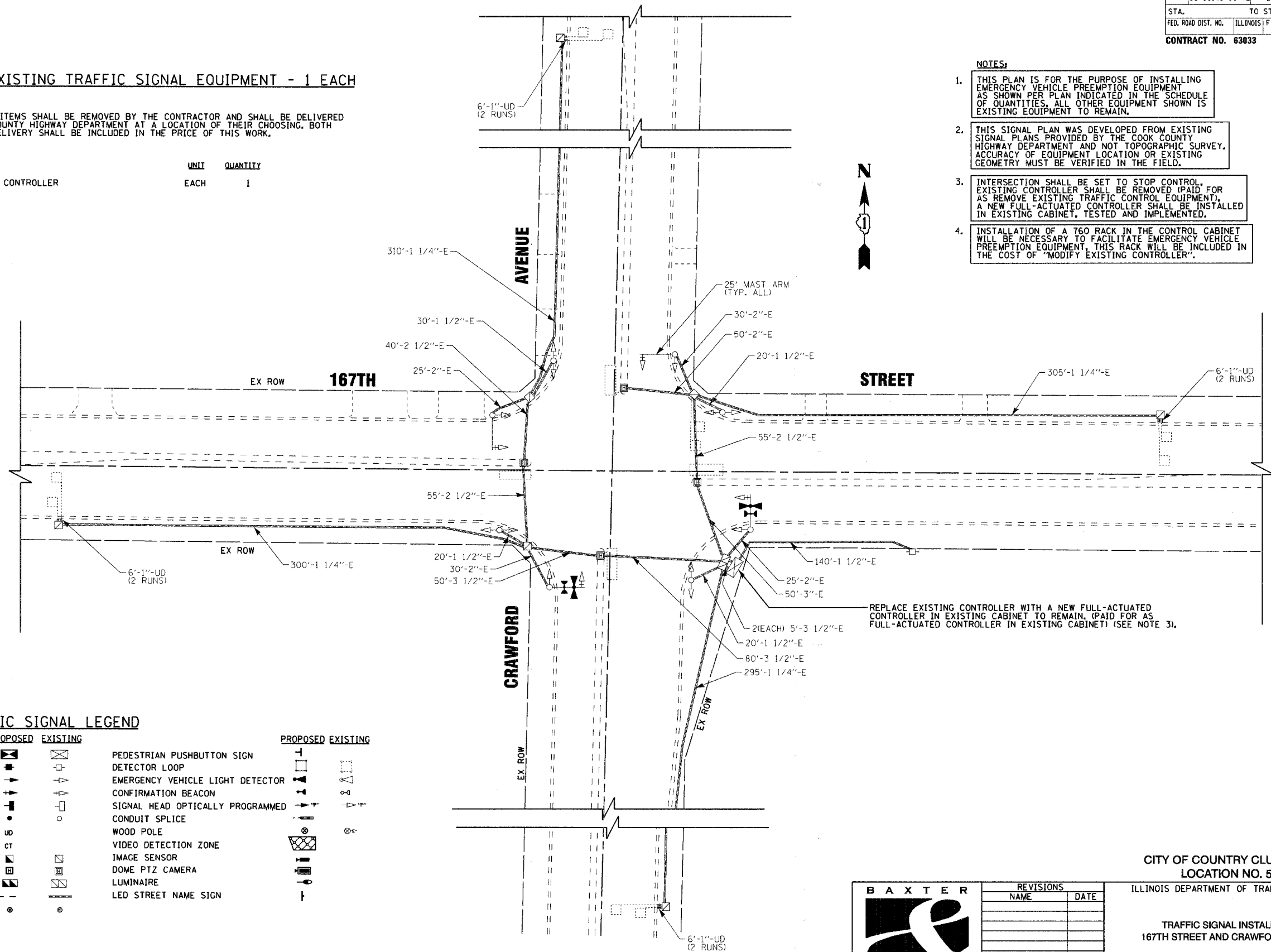
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT - 1 EACH

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DELIVERED TO THE COOK COUNTY HIGHWAY DEPARTMENT AT A LOCATION OF THEIR CHOOSING. BOTH REMOVAL AND DELIVERY SHALL BE INCLUDED IN THE PRICE OF THIS WORK.

PAY ITEM	UNIT	QUANTITY
EXISTING ASC-8 CONTROLLER	EACH	1

NOTES:

- THIS PLAN IS FOR THE PURPOSE OF INSTALLING EMERGENCY VEHICLE PREEMPTION EQUIPMENT AS SHOWN PER PLAN INDICATED IN THE SCHEDULE OF QUANTITIES. ALL OTHER EQUIPMENT SHOWN IS EXISTING EQUIPMENT TO REMAIN.
- THIS SIGNAL PLAN WAS DEVELOPED FROM EXISTING SIGNAL PLANS PROVIDED BY THE COOK COUNTY HIGHWAY DEPARTMENT AND NOT TOPOGRAPHIC SURVEY. ACCURACY OF EQUIPMENT LOCATION OR EXISTING GEOMETRY MUST BE VERIFIED IN THE FIELD.
- INTERSECTION SHALL BE SET TO STOP CONTROL. EXISTING CONTROLLER SHALL BE REMOVED (PAID FOR AS REMOVE EXISTING TRAFFIC CONTROL EQUIPMENT). A NEW FULL-ACTUATED CONTROLLER SHALL BE INSTALLED IN EXISTING CABINET, TESTED AND IMPLEMENTED.
- INSTALLATION OF A 760 RACK IN THE CONTROL CABINET WILL BE NECESSARY TO FACILITATE EMERGENCY VEHICLE PREEMPTION EQUIPMENT. THIS RACK WILL BE INCLUDED IN THE COST OF "MODIFY EXISTING CONTROLLER".



TRAFFIC SIGNAL LEGEND

	PROPOSED	EXISTING		PROPOSED	EXISTING
CONTROLLER	[Symbol]	[Symbol]	PEDESTRIAN PUSHBUTTON SIGN	[Symbol]	[Symbol]
SERVICE INSTALLATION	[Symbol]	[Symbol]	DETECTOR LOOP	[Symbol]	[Symbol]
SIGNAL HEAD	[Symbol]	[Symbol]	EMERGENCY VEHICLE LIGHT DETECTOR	[Symbol]	[Symbol]
SIGNAL HEAD WITH BACKPLATE	[Symbol]	[Symbol]	CONFIRMATION BEACON	[Symbol]	[Symbol]
SIGNAL HEAD, PEDESTRIAN	[Symbol]	[Symbol]	SIGNAL HEAD OPTICALLY PROGRAMMED	[Symbol]	[Symbol]
SIGNAL POST	[Symbol]	[Symbol]	CONDUIT SPLICE	[Symbol]	[Symbol]
UNIT DUCT	[Symbol]	[Symbol]	WOOD POLE	[Symbol]	[Symbol]
COMMON TRENCH	[Symbol]	[Symbol]	VIDEO DETECTION ZONE	[Symbol]	[Symbol]
HANDHOLE	[Symbol]	[Symbol]	IMAGE SENSOR	[Symbol]	[Symbol]
HEAVY DUTY HANDHOLE	[Symbol]	[Symbol]	DOME PTZ CAMERA	[Symbol]	[Symbol]
DOUBLE HANDHOLE	[Symbol]	[Symbol]	LUMINAIRE	[Symbol]	[Symbol]
G.S. CONDUIT IN TRENCH (T) OR PUSHED (P)	[Symbol]	[Symbol]	LED STREET NAME SIGN	[Symbol]	[Symbol]
PEDESTRIAN PUSHBUTTON DETECTOR	[Symbol]	[Symbol]			



REVISIONS	
NAME	DATE

CITY OF COUNTRY CLUB HILLS
LOCATION NO. 52

ILLINOIS DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL INSTALLATION
167TH STREET AND CRAWFORD AVENUE

SCALE: NONE
DATE: 01-02-08

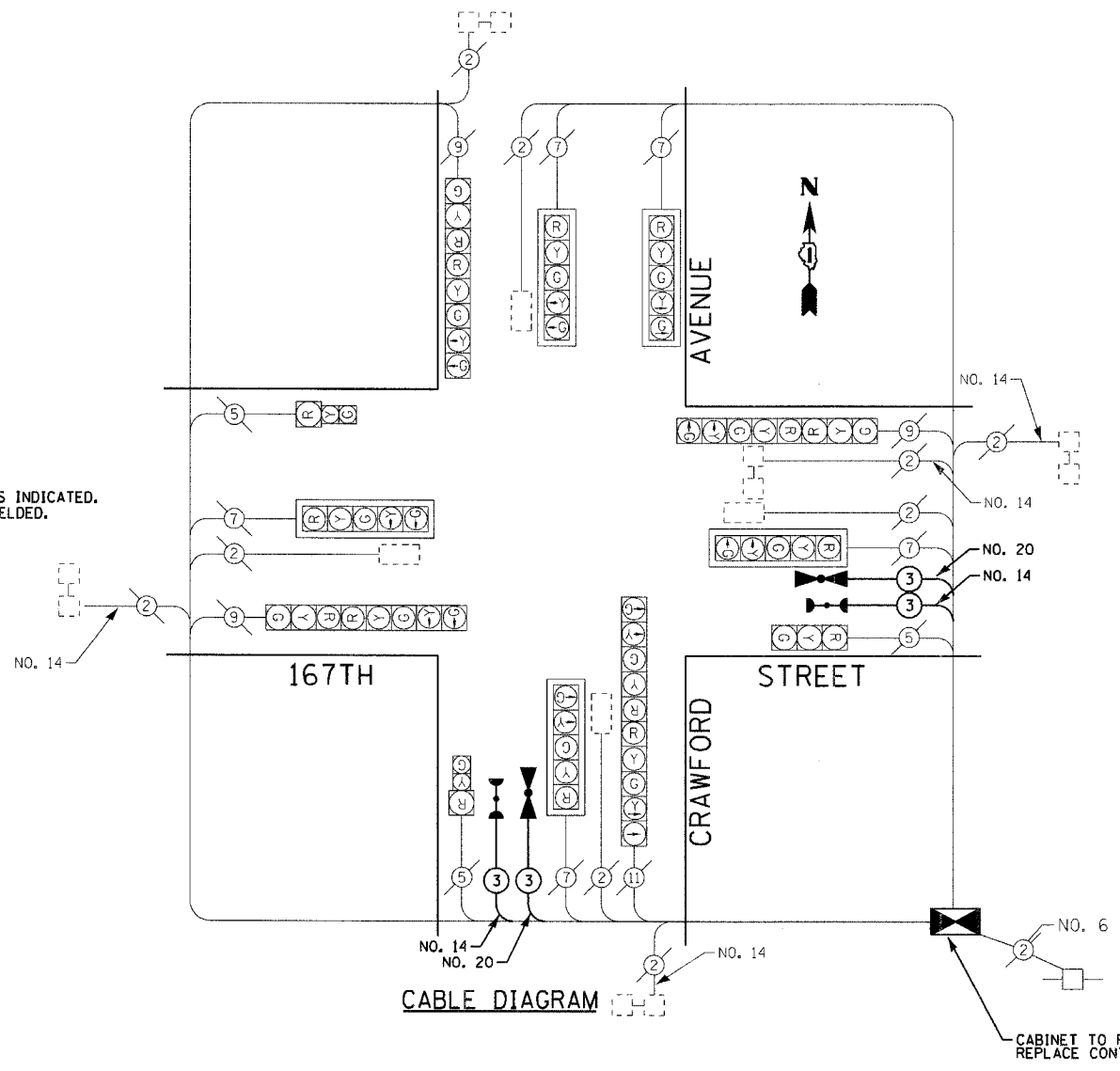
DRAWN BY: MAC
CHECKED BY: LDH

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 STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 LICENSE NO. 084-00021 - EXPIRES 12/31/2008
 PROJECT NO. 08-00146-00-TL-122
 DRAWING NO. 122-001

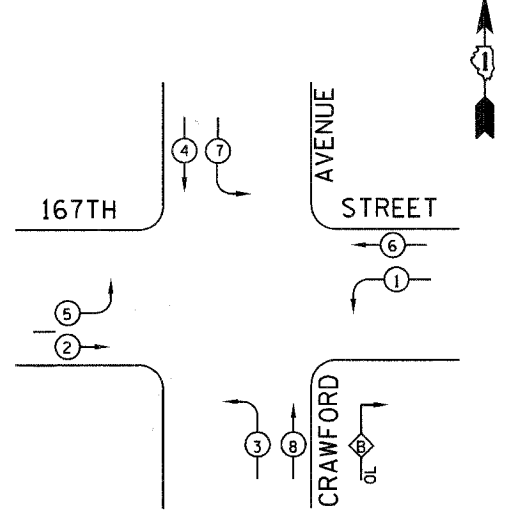
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00146-00-TL	COOK	273	123
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	M-8003 (867)	
CONTRACT NO. 63033				

CABLE PLAN LEGEND

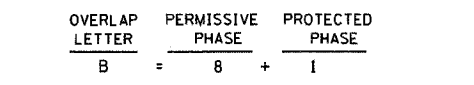
- | | |
|--|---|
| | 8" (200mm) TRAFFIC SIGNAL SECTION |
| | 12" (300mm) TRAFFIC SIGNAL SECTION |
| | 12" (300mm) PEDESTRIAN SIGNAL SECTION |
| | 12" (300mm) PEDESTRIAN SIGNAL SECTION |
| | CONTROLLER CABINET |
| | SERVICE INSTALLATION |
| | TELEPHONE CONNECTION |
| | VEHICLE DETECTOR, INDUCTION LOOP |
| | MAGNETIC DETECTOR |
| | EMERGENCY VEHICLE LIGHT DETECTOR |
| | CONFIRMATION BEACON |
| | PUSHBUTTON DETECTOR |
| | ② DENOTES NUMBER OF CONDUCTORS. ALL EXISTING CABLE NO. 12 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED. |
| | ① GROUND CABLE IN CONDUIT, NO. 6 SOLID COPPER (GREEN) |
| | ② FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125 2-MM12F SMI2F |
| | SIGNAL FACE WITH BACKPLATE "P" INDICATES PROGRAMMED HEAD |
| | RAILROAD CONTROL CABINET |
| | ILLUMINATED SIGN, "NO LEFT TURN" |
| | ILLUMINATED SIGN, "NO RIGHT TURN" |
| | GROUND CABLE 1C NO. 6 |
| | H/C GROUND ROD AT HANDHOLE (H), DOUBLE HANDHOLE (H), OR CONTROLLER (C) |
| | P GROUND ROD AT POST (P), OR MAST ARM POLE (MA) |
| | S GROUND ROD AT ELECTRIC SERVICE INSTALLATION |
| | L LUMINAIRE |



CONTROLLER SEQUENCE



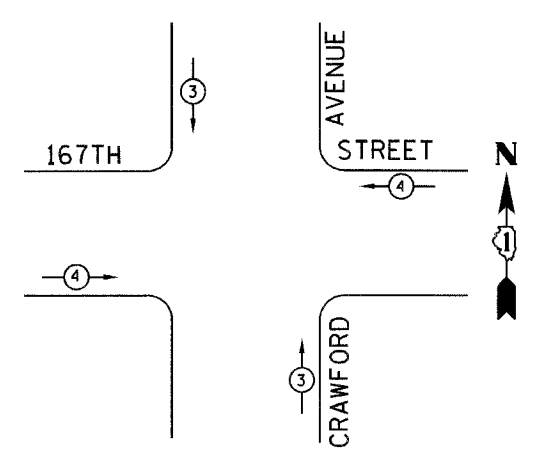
PHASE DESIGNATION DIAGRAM



LEGEND

- DUAL ENTRY PHASE
- SINGLE ENTRY PHASE
- OVERLAP
- PEDESTRIAN PHASE
- NUMBER REFERS TO ASSOCIATED PHASE

EMERGENCY VEHICLE PREEMPTION SEQUENCE



PROPOSED EMERGENCY VEHICLE PREEMPTION		
EMERGENCY VEHICLE PREEMPTION	3	4
MOVEMENT	↑	→

EXISTING TRAFFIC SIGNAL SEQUENCE OF OPERATIONS

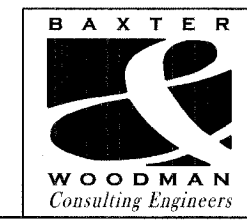
MOVEMENT PHASE	Ax/A1				Ay/A2				Ax/Ay				A1/A2		Bx/B1			By/B2				Bx/By			B1/B2		F L A S H						
	Ax/Ay	A1/A2	By/B2	OTHER	Ax/Ay	A1/A2	OTHER	OTHER	Ax/Ay	Ay/A2	By/B2	OTHER	①	Bx/By	B1/B2	OTHER	A1/Ax	Bx/By	B1/B2	OTHER	Bx/By	By/B2	OTHER	②									
INTERVAL	1	2a	2b	2c	2d	3	4a	4b	4c	5	6a	6b	6c	6d	7	8a	9	10a	10b	10c	11	12a	12b	12c	12d	13	14a	14b	14c	15	16a		
167TH ST. W.B. NEAR AND FAR RIGHT	G	Y	G	Y	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
167TH ST. W.B. MAST ARM AND FAR LEFT	G	Y	G	Y	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
167TH ST. E.B. NEAR AND FAR RIGHT	R	R	R	R	R	G	Y	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
167TH ST. E.B. MAST ARM AND FAR LEFT	R	R	R	R	R	G	Y	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
CRAWFORD AVE. S.B. NEAR AND FAR RIGHT	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
CRAWFORD AVE. S.B. MAST ARM AND FAR LEFT	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
CRAWFORD AVE. N.B. NEAR AND FAR RIGHT	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
CRAWFORD AVE. N.B. MAST ARM AND FAR LEFT	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R

- ① PHASE A1/A2 SHALL NOT BE ABLE TO CHANGE TO PHASE Ax/A1 NOR Ay/A2
- ② PHASE B1/B2 SHALL NOT BE ABLE TO CHANGE TO PHASE Bx/B1 NOR By/A2

SCHEDULE OF QUANTITIES

PAY ITEM	UNIT	QUANTITY
ELECTRIC CABLE IN CONDUIT, NO. 20 3/C, TWISTED SHIELDED	FOOT	338
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 3C	FOOT	338
LIGHT DETECTOR	EACH	2
LIGHT DETECTOR AMPLIFIER	EACH	1
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	1
MODIFY EXISTING CONTROLLER	EACH	1

CITY OF COUNTRY CLUB HILLS LOCATION NO. 52



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

CABLE PLAN, EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION, PHASE DESIGNATION DIAGRAM & TRAFFIC SIGNAL SEQUENCE OF OPERATIONS 167TH ST AND CRAWFORD AVE

SCALE: NONE DRAWN BY: MAC
DATE: 01-02-08 CHECKED BY: LDH

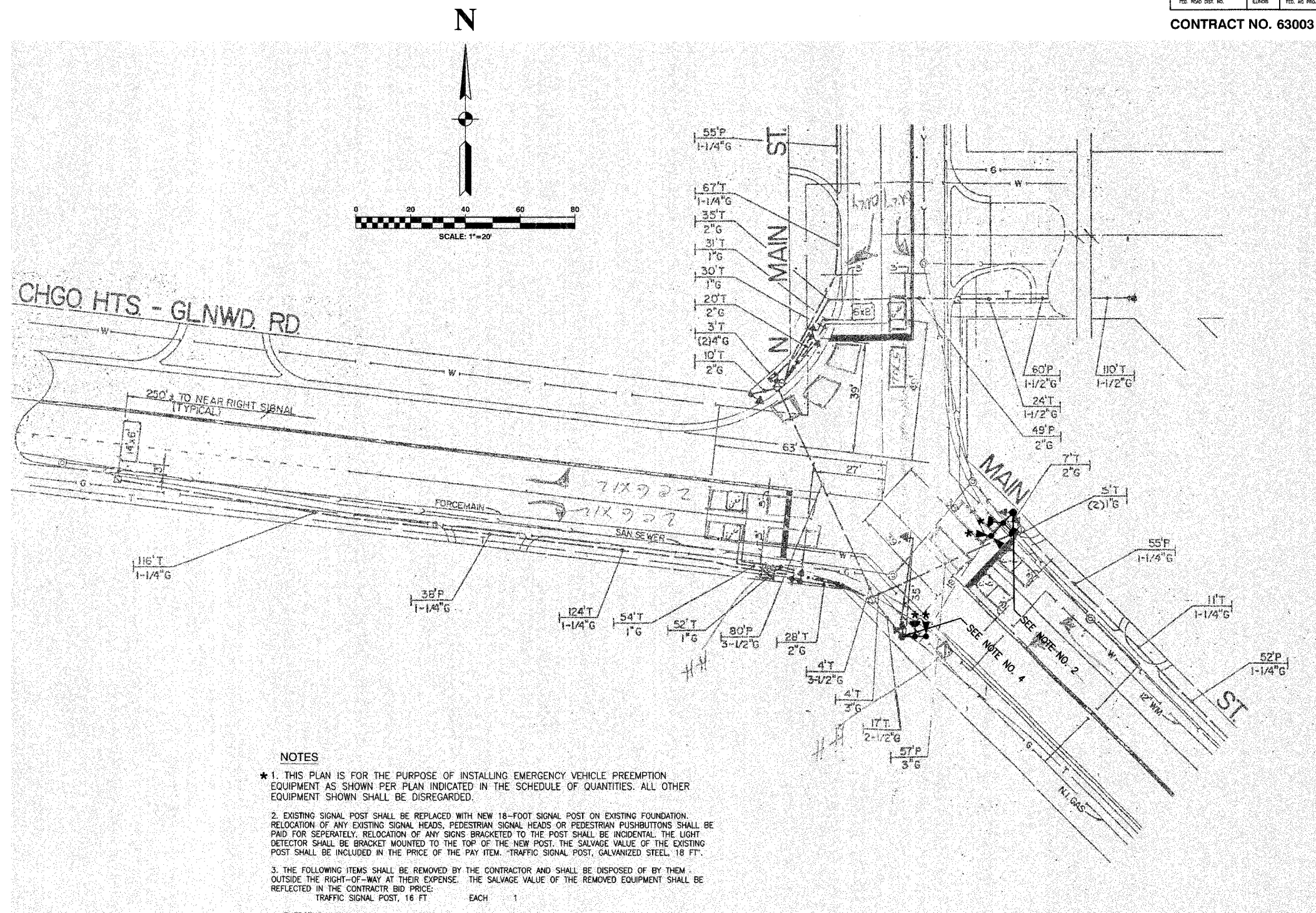
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F. A. SHEET	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00146-00-TL	COOK	273	124
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 63003

TRAFFIC SIGNAL LEGEND

- | | | |
|---|----------|----------|
| | PROPOSED | EXISTING |
| CONTROLLER | | |
| SERVICE INSTALLATION | | |
| SIGNAL HEAD | | |
| SIGNAL HEAD WITH BACKPLATE | | |
| SIGNAL HEAD, PEDESTRIAN | | |
| SIGNAL POST | | |
| MAST ARM ASSEMBLY AND POLE, STEEL | | |
| MAST ARM ASSEMBLY AND POLE, ALUMINUM | | |
| COMBINATION MAST ARM ASSEMBLY AND POLE STEEL WITH LUMINAIRE | | |
| UNIT DUCT | | |
| COMMON TRENCH | | |
| HANDHOLE | | |
| HEAVY DUTY HANDHOLE | | |
| DOUBLE HANDHOLE | | |
| G.S. CONDUIT IN GROUND | | |
| PEDESTRIAN PUSHBUTTON DETECTOR | | |
| DETECTOR LOOP | | |
| CAST IRON JUNCTION BOX | | |
| EMERGENCY VEHICLE SYSTEM DETECTOR | | |
| CONFIRMATION BEACON | | |
| SIGNAL HEAD OPTICALLY PROGRAMMED | | |
| CONDUIT SPLICE | | |
| WOOD POLE | | |
| RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II | | |
| VEHICLE DETECTOR, NON COMPENSATED MAGNETIC TYPE | | |
| RAILROAD CONTROL CABINET | | |
| TELEPHONE CONNECTION | | |
| ILLUMINATED SIGN, FIBER OPTIC "NO LEFT TURN" | | |
| ILLUMINATED SIGN, FIBER OPTIC "NO RIGHT TURN" | | |



NOTES

- * 1. THIS PLAN IS FOR THE PURPOSE OF INSTALLING EMERGENCY VEHICLE PREEMPTION EQUIPMENT AS SHOWN PER PLAN INDICATED IN THE SCHEDULE OF QUANTITIES. ALL OTHER EQUIPMENT SHOWN SHALL BE DISREGARDED.
2. EXISTING SIGNAL POST SHALL BE REPLACED WITH NEW 18-FOOT SIGNAL POST ON EXISTING FOUNDATION. RELOCATION OF ANY EXISTING SIGNAL HEADS, PEDESTRIAN SIGNAL HEADS OR PEDESTRIAN PUSHBUTTONS SHALL BE PAID FOR SEPERATELY. RELOCATION OF ANY SIGNS BRACKETED TO THE POST SHALL BE INCIDENTAL. THE LIGHT DETECTOR SHALL BE BRACKET MOUNTED TO THE TOP OF THE NEW POST. THE SALVAGE VALUE OF THE EXISTING POST SHALL BE INCLUDED IN THE PRICE OF THE PAY ITEM. TRAFFIC SIGNAL POST, GALVANIZED STEEL, 18 FT.
3. THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACTR BID PRICE:
TRAFFIC SIGNAL POST, 16 FT EACH 1
4. EMERGENCY VEHICLE SYSTEM DETECTOR AND CONFIRMATION BEACON SHALL BE MOUNTED AS SHOWN ON THE MAST ARM INDICATED.

VILLAGE OF GLENWOOD
LOCATION NO. 53

* PLANS MODIFIED BY
ROBINSON ENGINEERING, LTD

REVISIONS	
NAME	DATE
* ADDED EV PREEMPTION	01/02/08
NEW 18' POST	

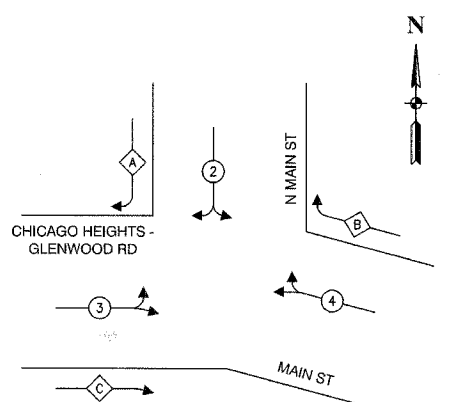
ILLINOIS DEPARTMENT OF TRANSPORTATION
**PROPOSED EMERGENCY VEHICLE PREEMPTION
MAIN STREET & NORTH MAIN STREET &
CHICAGO HEIGHTS-GLENWOOD ROAD**

SCALE: VERT.
HORIZ.
DATE _____ DRAWN BY _____
CHECKED BY _____

ROBINSON ENGINEERING, LTD.
17000 SOUTH PARK AVENUE SOUTH HOLLAND, ILLINOIS 60478
(708) 251-6500 FAX (708) 581-9608
ILLINOIS DESIGN FIRM REGISTRATION NO. 184001128

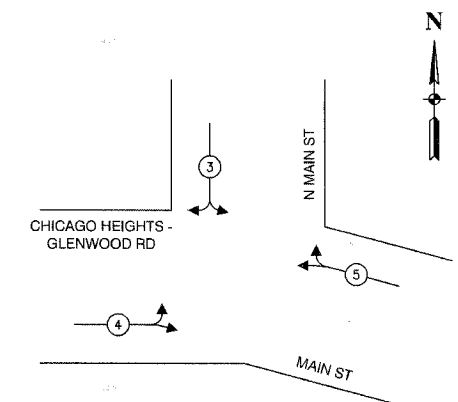
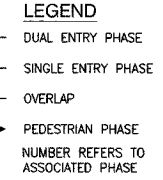
F.A. REC.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00146-00-TL	COOK	273	125
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 63003



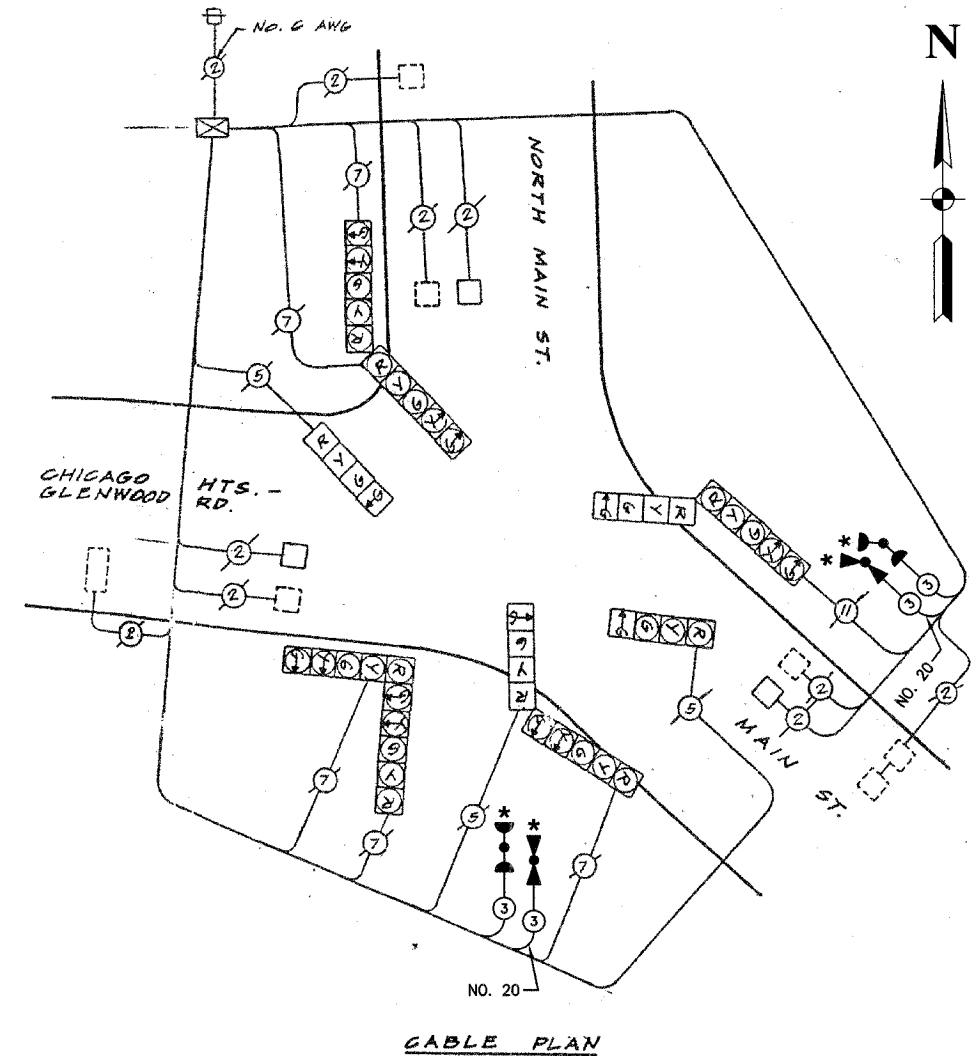
OVERLAP	PERMISSIVE	PROTECTED	DISPLAY
A =	2	+	3 - 2
B =	4	+	2 - 4
C =	3	+	4 - 3

PHASE DESIGNATION DIAGRAM



EMERGENCY VEHICLE PREEMPTION SEQUENCE

PROPOSED EMERGENCY VEHICLE PREEMPTORS			
EMERGENCY VEHICLE PREEMPTOR	3	4	5
MOVEMENT			



CABLE PLAN

EXISTING	PROPOSED	
		8" TRAFFIC SIGNAL SECTION
		12" TRAFFIC SIGNAL SECTION
		12" PEDESTRIAN SIGNAL SECTION
		12" PEDESTRIAN SIGNAL SECTION
		CONTROLLER CABINET
		SERVICE INSTALLATION
		TELEPHONE CONNECTION
		MAGNETIC DETECTOR
		EMERGENCY VEHICLE LIGHT DETECTOR
		CONFIRMATION BEACON
		PUSHBUTTON DETECTOR
		VEHICLE DETECTOR, INDUCTION LOOP
		DENOTES NUMBER OF CONDUCTORS. ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED.
		SIGNAL FACE WITH BACKPLATE "P" INDICATES PROGRAMMED HEAD
		RAILROAD CONTROL CABINET
		ILLUMINATED SIGN, FIBER OPTIC "NO LEFT TURN"
		ILLUMINATED SIGN, FIBER OPTIC "NO RIGHT TURN"
		GROUND ROD AT HANDHOLE, DOUBLE HANDHOLE, OR CONTROLLER
		GROUND ROD AT POST OR MAST ARM POLE
		GROUND ROD AT ELECTRIC SERVICE INSTALLATION

SCHEDULE OF QUANTITIES		
PAY ITEM	UNIT	QUANTITY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	348
TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.	EACH	1
LIGHT DETECTOR	EACH	2
LIGHT DETECTOR AMPLIFIER	EACH	1
RELOCATE EXISTING SIGNAL HEAD	EACH	2
REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	FOOT	15
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED	FOOT	348

NOTE
 * 1. THIS PLAN IS FOR THE PURPOSE OF INSTALLING EMERGENCY VEHICLE PREEMPTION EQUIPMENT AS SHOWN PER PLAN INDICATED IN THE SCHEDULE OF QUANTITIES. ALL OTHER EQUIPMENT SHOWN SHALL BE DISREGARDED.

* PLANS MODIFIED BY ROBINSON ENGINEERING, LTD

REVISIONS	
NAME	DATE
* ADDED EV PREEMPTION NEW 18" POST	01/02/08

VILLAGE OF GLENWOOD
 LOCATION NO. 53

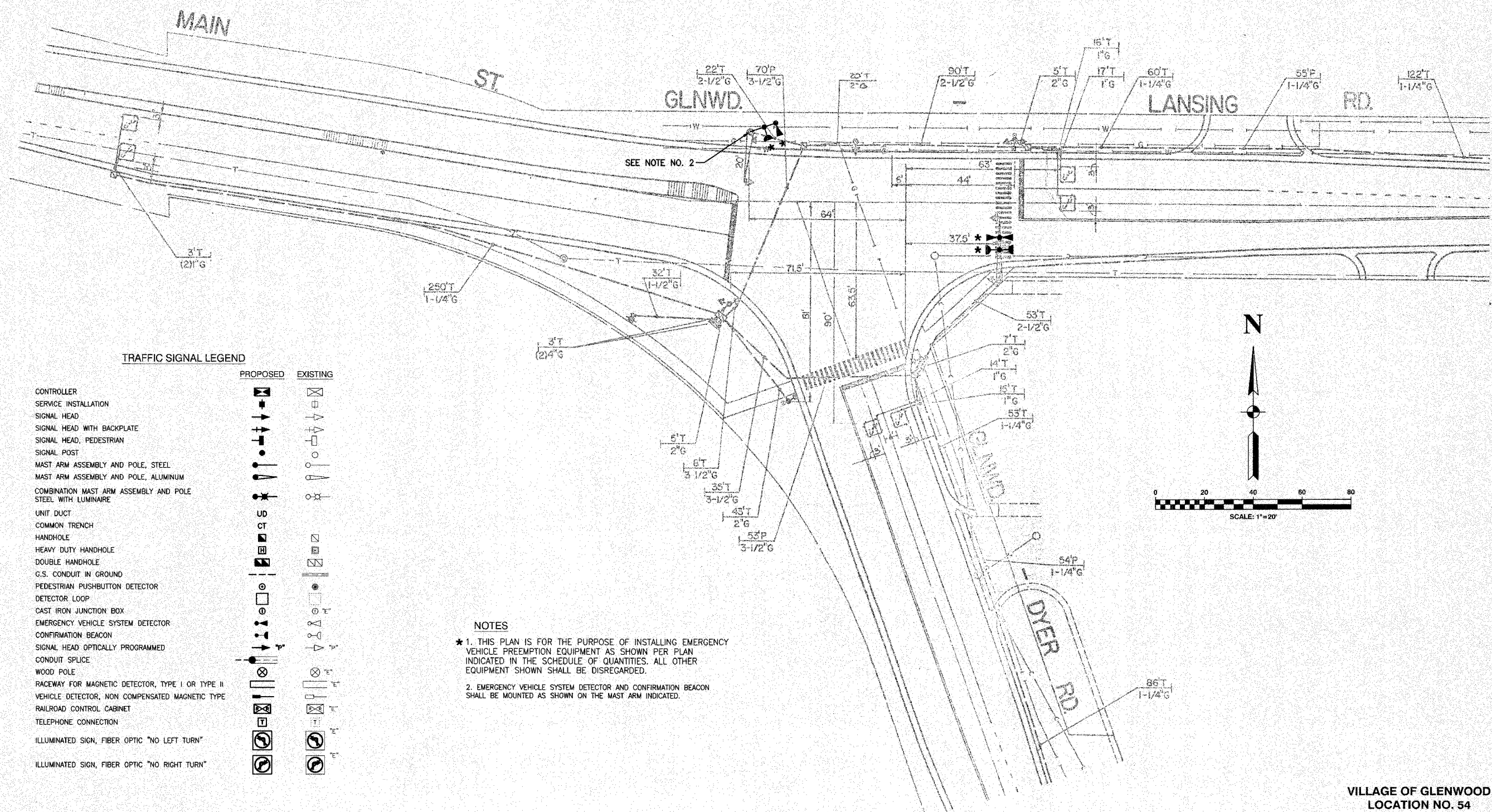
ILLINOIS DEPARTMENT OF TRANSPORTATION
 PROPOSED EMERGENCY VEHICLE PREEMPTION CABLE PLAN, PHASE DESIGNATION DIAGRAM & SCHEDULE OF QUANTITIES
 MAIN STREET & NORTH MAIN STREET & CHICAGO HEIGHTS GLENWOOD ROAD

SCALE: VERT. _____
 HORIZ. _____

DATE _____ DRAWN BY _____
 CHECKED BY _____

F. A. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00146-00-TL	COOK	273	126
STA.	TO STA.			
FED. ROAD DIST. NO.	LINE	FED. PROJ. NO.		

CONTRACT NO. 63003

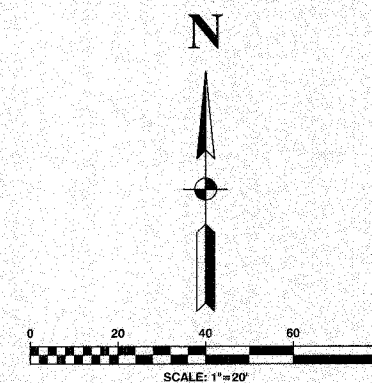


TRAFFIC SIGNAL LEGEND

	PROPOSED	EXISTING
CONTROLLER	[Symbol]	[Symbol]
SERVICE INSTALLATION	[Symbol]	[Symbol]
SIGNAL HEAD	[Symbol]	[Symbol]
SIGNAL HEAD WITH BACKPLATE	[Symbol]	[Symbol]
SIGNAL HEAD, PEDESTRIAN	[Symbol]	[Symbol]
SIGNAL POST	[Symbol]	[Symbol]
MAST ARM ASSEMBLY AND POLE, STEEL	[Symbol]	[Symbol]
MAST ARM ASSEMBLY AND POLE, ALUMINUM	[Symbol]	[Symbol]
COMBINATION MAST ARM ASSEMBLY AND POLE STEEL WITH LUMINAIRE	[Symbol]	[Symbol]
UNIT DUCT	[Symbol]	[Symbol]
COMMON TRENCH	[Symbol]	[Symbol]
HANDHOLE	[Symbol]	[Symbol]
HEAVY DUTY HANDHOLE	[Symbol]	[Symbol]
DOUBLE HANDHOLE	[Symbol]	[Symbol]
G.S. CONDUIT IN GROUND	[Symbol]	[Symbol]
PEDESTRIAN PUSHBUTTON DETECTOR	[Symbol]	[Symbol]
DETECTOR LOOP	[Symbol]	[Symbol]
CAST IRON JUNCTION BOX	[Symbol]	[Symbol]
EMERGENCY VEHICLE SYSTEM DETECTOR	[Symbol]	[Symbol]
CONFIRMATION BEACON	[Symbol]	[Symbol]
SIGNAL HEAD OPTICALLY PROGRAMMED	[Symbol]	[Symbol]
CONDUIT SPLICE	[Symbol]	[Symbol]
WOOD POLE	[Symbol]	[Symbol]
RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II	[Symbol]	[Symbol]
VEHICLE DETECTOR, NON COMPENSATED MAGNETIC TYPE	[Symbol]	[Symbol]
RAILROAD CONTROL CABINET	[Symbol]	[Symbol]
TELEPHONE CONNECTION	[Symbol]	[Symbol]
ILLUMINATED SIGN, FIBER OPTIC "NO LEFT TURN"	[Symbol]	[Symbol]
ILLUMINATED SIGN, FIBER OPTIC "NO RIGHT TURN"	[Symbol]	[Symbol]

NOTES

- * 1. THIS PLAN IS FOR THE PURPOSE OF INSTALLING EMERGENCY VEHICLE PREEMPTION EQUIPMENT AS SHOWN PER PLAN INDICATED IN THE SCHEDULE OF QUANTITIES. ALL OTHER EQUIPMENT SHOWN SHALL BE DISREGARDED.
- 2. EMERGENCY VEHICLE SYSTEM DETECTOR AND CONFIRMATION BEACON SHALL BE MOUNTED AS SHOWN ON THE MAST ARM INDICATED.



VILLAGE OF GLENWOOD
LOCATION NO. 54

* PLANS MODIFIED BY
ROBINSON ENGINEERING, LTD

REVISIONS	
NAME	DATE
* ADDED EV PREEMPTION	01/02/08

ILLINOIS DEPARTMENT OF TRANSPORTATION

PROPOSED EMERGENCY VEHICLE PREEMPTION
MAIN STREET & GLENWOOD-LANSING ROAD &
GLENWOOD-DYER ROAD

SCALE: VERT. _____
HORIZ. _____
DATE _____ DRAWN BY _____
CHECKED BY _____

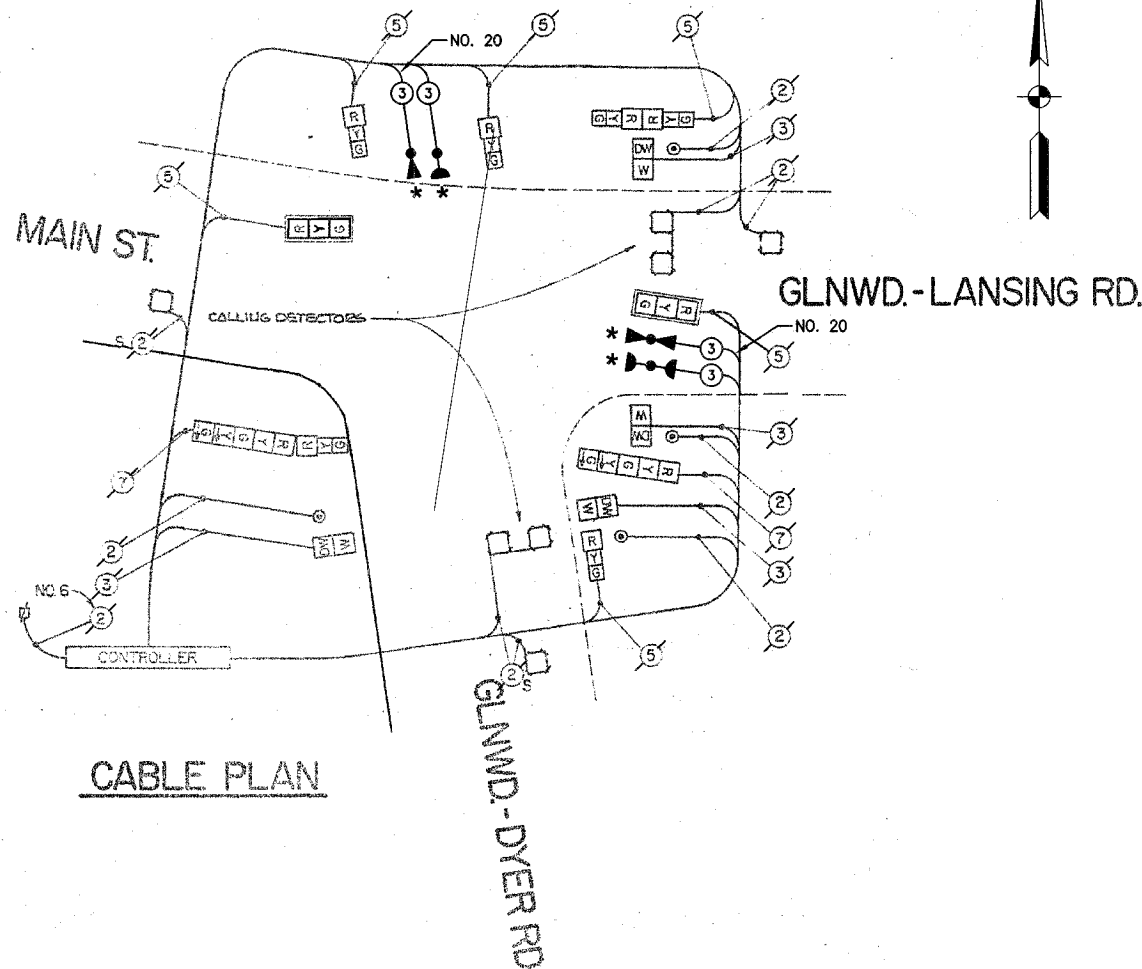
ROBINSON ENGINEERING, LTD.
17000 SOUTH PARK AVENUE SOUTH HOLLAND, ILLINOIS 60478
(708) 351-6100 FAX (708) 351-9408
ILLINOIS DESIGN FIRM REGISTRATION NO. 16401126

P.A. SHEET	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

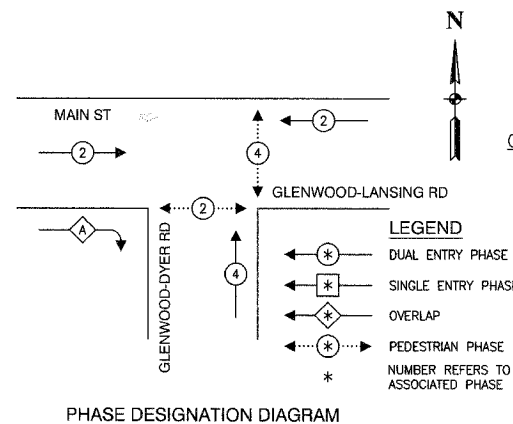
CONTRACT NO. 63003

CABLE PLAN LEGEND

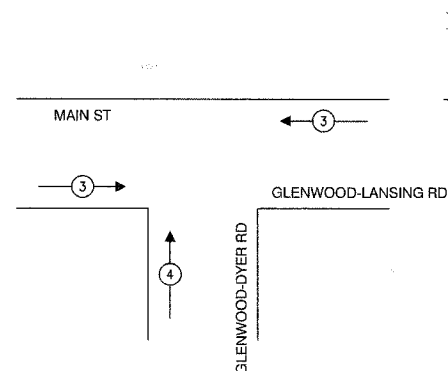
EXISTING	PROPOSED	
		8" TRAFFIC SIGNAL SECTION
		12" TRAFFIC SIGNAL SECTION
		12" PEDESTRIAN SIGNAL SECTION
		12" PEDESTRIAN SIGNAL SECTION
		CONTROLLER CABINET
		SERVICE INSTALLATION
		TELEPHONE CONNECTION
		MAGNETIC DETECTOR
		EMERGENCY VEHICLE LIGHT DETECTOR
		CONFIRMATION BEACON
		PUSHBUTTON DETECTOR
		VEHICLE DETECTOR, INDUCTION LOOP
		DENOTES NUMBER OF CONDUCTORS. ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED.
		SIGNAL FACE WITH BACKPLATE "P" INDICATES PROGRAMMED HEAD
		RAILROAD CONTROL CABINET
		ILLUMINATED SIGN, FIBER OPTIC "NO LEFT TURN"
		ILLUMINATED SIGN, FIBER OPTIC "NO RIGHT TURN"
		GROUND ROD AT HANDHOLE, DOUBLE HANDHOLE, OR CONTROLLER
		GROUND ROD AT POST OR MAST ARM POLE
		GROUND ROD AT ELECTRIC SERVICE INSTALLATION



CABLE PLAN



$$\frac{\text{OVERLAP}}{A} = \frac{\text{PERMISSIVE}}{2} + \frac{\text{PROTECTED}}{4} - \frac{\text{DISPLAY}}{2}$$



EMERGENCY VEHICLE PREEMPTION SEQUENCE

PROPOSED EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	←	↑

SCHEDULE OF QUANTITIES

PAY ITEM	UNIT	QUANTITY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	366
LIGHT DETECTOR	EACH	2
LIGHT DETECTOR AMPLIFIER	EACH	1
ELECTRIC CABLE IN CONDUIT NO. 20 3/C TWISTED, SHIELDED	FOOT	366

NOTE

* 1. THIS PLAN IS FOR THE PURPOSE OF INSTALLING EMERGENCY VEHICLE PREEMPTION EQUIPMENT AS SHOWN PER PLAN INDICATED IN THE SCHEDULE OF QUANTITIES. ALL OTHER EQUIPMENT SHOWN SHALL BE DISREGARDED.

* PLANS MODIFIED BY ROBINSON ENGINEERING, LTD

REVISIONS	
NAME	DATE
* ADDED EV PREEMPTION	01/02/08

VILLAGE OF GLENWOOD LOCATION NO. 54

ILLINOIS DEPARTMENT OF TRANSPORTATION

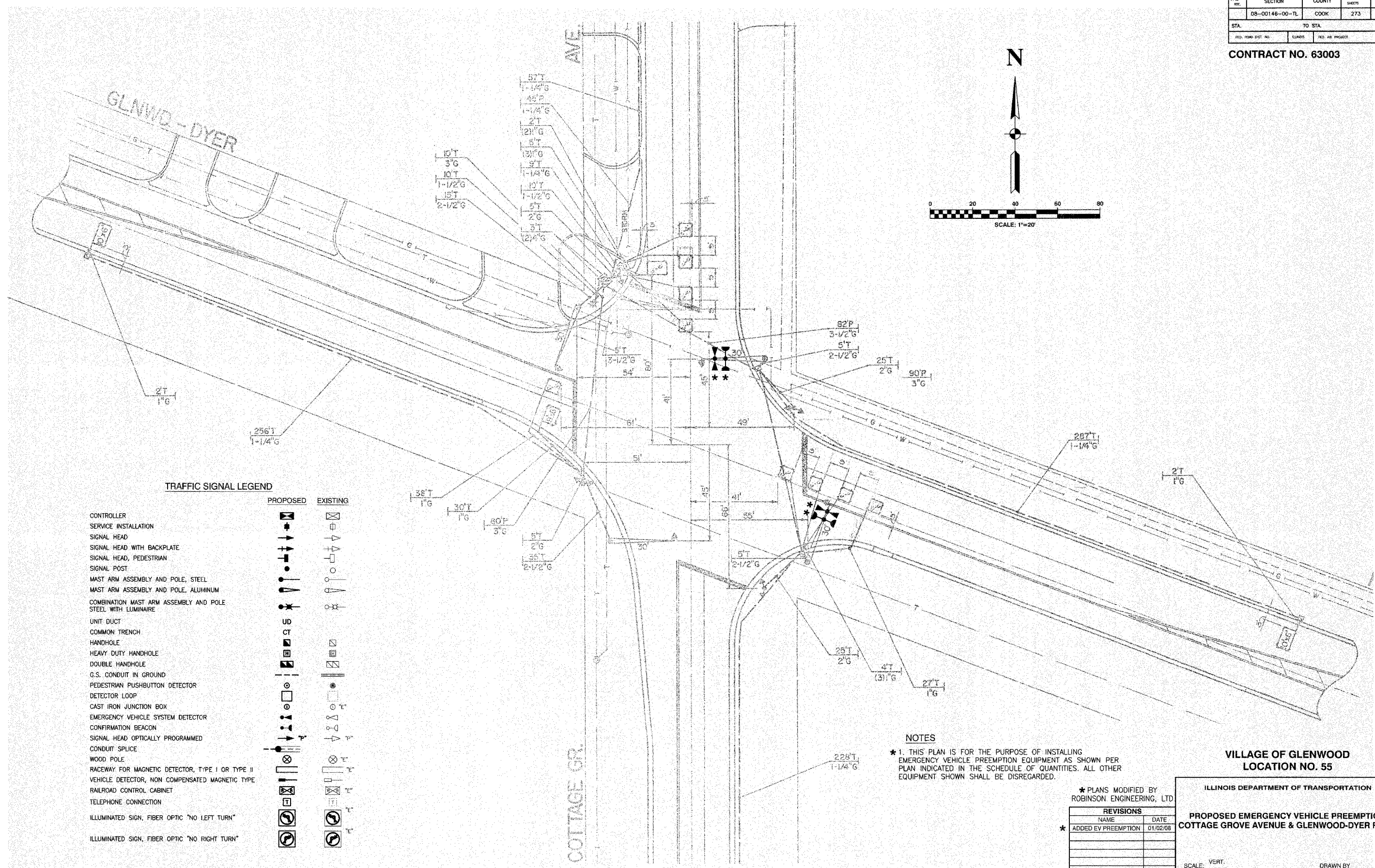
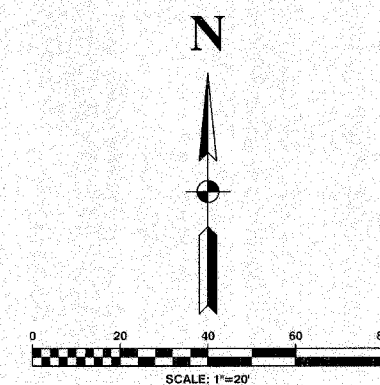
PROPOSED EMERGENCY VEHICLE PREEMPTION CABLE PLAN, PHASE DESIGNATION DIAGRAM & SCHEDULE OF QUANTITIES
MAIN STREET & GLENWOOD-LANSING ROAD & GLENWOOD-DYER ROAD

SCALE: VERT. _____ DRAWN BY _____
HORIZ. _____ CHECKED BY _____
DATE _____

ROBINSON ENGINEERING, LTD.
17000 SOUTH PARK AVENUE SOUTH HOLLAND, ILLINOIS 60413
(708) 381-0700 FAX (708) 381-0608
ILLINOIS DESIGN FIRM REGISTRATION NO. 184001128

F. A. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00146-00-TL	COOK	273	128
STA.	TO STA.			
FED. ROAD DIST. NO.	LANDS	FED. AID PROJECT		

CONTRACT NO. 63003



TRAFFIC SIGNAL LEGEND

	PROPOSED	EXISTING
CONTROLLER	[Symbol]	[Symbol]
SERVICE INSTALLATION	[Symbol]	[Symbol]
SIGNAL HEAD	[Symbol]	[Symbol]
SIGNAL HEAD WITH BACKPLATE	[Symbol]	[Symbol]
SIGNAL HEAD, PEDESTRIAN	[Symbol]	[Symbol]
SIGNAL POST	[Symbol]	[Symbol]
MAST ARM ASSEMBLY AND POLE, STEEL	[Symbol]	[Symbol]
MAST ARM ASSEMBLY AND POLE, ALUMINUM	[Symbol]	[Symbol]
COMBINATION MAST ARM ASSEMBLY AND POLE STEEL WITH LUMINAIRE	[Symbol]	[Symbol]
UNIT DUCT	[Symbol]	[Symbol]
COMMON TRENCH	[Symbol]	[Symbol]
HANDHOLE	[Symbol]	[Symbol]
HEAVY DUTY HANDHOLE	[Symbol]	[Symbol]
DOUBLE HANDHOLE	[Symbol]	[Symbol]
G.S. CONDUIT IN GROUND	[Symbol]	[Symbol]
PEDESTRIAN PUSHBUTTON DETECTOR	[Symbol]	[Symbol]
DETECTOR LOOP	[Symbol]	[Symbol]
CAST IRON JUNCTION BOX	[Symbol]	[Symbol]
EMERGENCY VEHICLE SYSTEM DETECTOR	[Symbol]	[Symbol]
CONFIRMATION BEACON	[Symbol]	[Symbol]
SIGNAL HEAD OPTICALLY PROGRAMMED	[Symbol]	[Symbol]
CONDUIT SPLICE	[Symbol]	[Symbol]
WOOD POLE	[Symbol]	[Symbol]
RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II	[Symbol]	[Symbol]
VEHICLE DETECTOR, NON COMPENSATED MAGNETIC TYPE	[Symbol]	[Symbol]
RAILROAD CONTROL CABINET	[Symbol]	[Symbol]
TELEPHONE CONNECTION	[Symbol]	[Symbol]
ILLUMINATED SIGN, FIBER OPTIC "NO LEFT TURN"	[Symbol]	[Symbol]
ILLUMINATED SIGN, FIBER OPTIC "NO RIGHT TURN"	[Symbol]	[Symbol]

NOTES
 * 1. THIS PLAN IS FOR THE PURPOSE OF INSTALLING EMERGENCY VEHICLE PREEMPTION EQUIPMENT AS SHOWN PER PLAN INDICATED IN THE SCHEDULE OF QUANTITIES. ALL OTHER EQUIPMENT SHOWN SHALL BE DISREGARDED.

**VILLAGE OF GLENWOOD
 LOCATION NO. 55**

* PLANS MODIFIED BY
 ROBINSON ENGINEERING, LTD

REVISIONS	
NAME	DATE
* ADDED EV PREEMPTION	01/02/08

ILLINOIS DEPARTMENT OF TRANSPORTATION
**PROPOSED EMERGENCY VEHICLE PREEMPTION
 COTTAGE GROVE AVENUE & GLENWOOD-DYER ROAD**

SCALE: VERT. _____
 HORIZ. _____

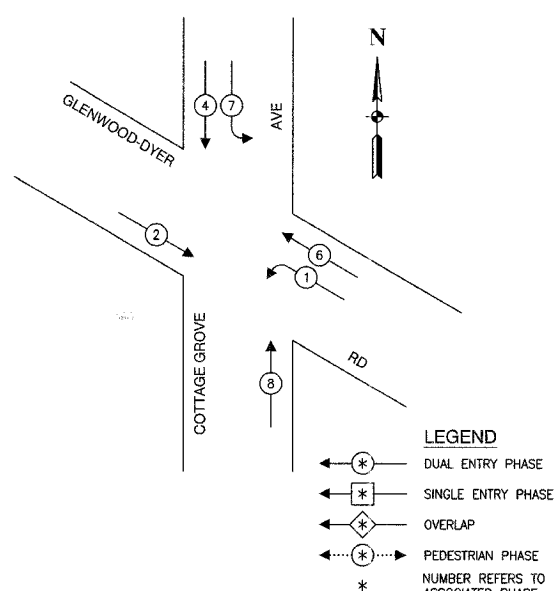
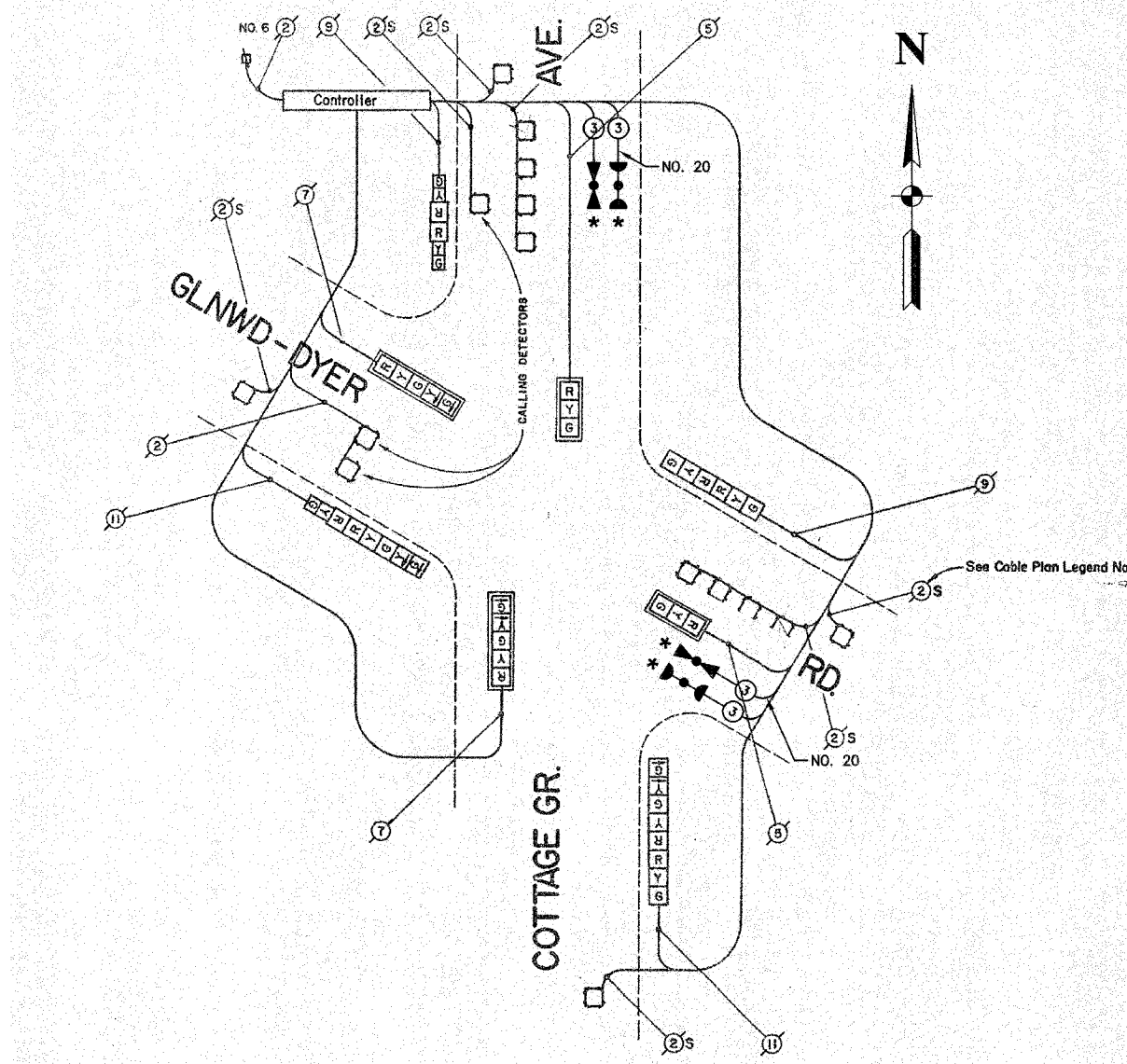
DATE _____ DRAWN BY _____
 CHECKED BY _____

F.A. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00146-00-TL	COOK	273	129
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 63003

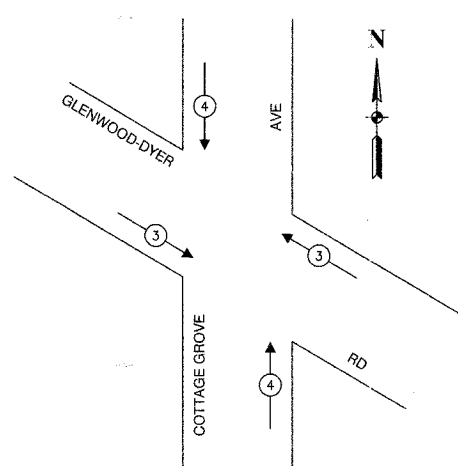
CABLE PLAN LEGEND

EXISTING	PROPOSED	
		8" TRAFFIC SIGNAL SECTION
		12" TRAFFIC SIGNAL SECTION
		12" PEDESTRIAN SIGNAL SECTION
		12" PEDESTRIAN SIGNAL SECTION
		CONTROLLER CABINET
		SERVICE INSTALLATION
		TELEPHONE CONNECTION
		MAGNETIC DETECTOR
		EMERGENCY VEHICLE LIGHT DETECTOR
		CONFIRMATION BEACON
		PUSHBUTTON DETECTOR
		VEHICLE DETECTOR, INDUCTION LOOP
		2 DENOTES NUMBER OF CONDUCTORS. ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED.
		SIGNAL FACE WITH BACKPLATE
		"P" INDICATES PROGRAMMED HEAD
		RAILROAD CONTROL CABINET
		ILLUMINATED SIGN, FIBER OPTIC "NO LEFT TURN"
		ILLUMINATED SIGN, FIBER OPTIC "NO RIGHT TURN"
		H/C GROUND ROD AT HANDHOLE, DOUBLE HANDHOLE, OR CONTROLLER
		P GROUND ROD AT POST OR MAST ARM POLE
		S GROUND ROD AT ELECTRIC SERVICE INSTALLATION



LEGEND
 ←*→ DUAL ENTRY PHASE
 ←*→ SINGLE ENTRY PHASE
 ←*→ OVERLAP
 ←*→ PEDESTRIAN PHASE
 * NUMBER REFERS TO ASSOCIATED PHASE

EMERGENCY VEHICLE PREEMPTION SEQUENCE



EMERGENCY VEHICLE PREEMPTION SEQUENCE

PROPOSED EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT		

SCHEDULE OF QUANTITIES		
PAY ITEM	UNIT	QUANTITY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	425
LIGHT DETECTOR	EACH	2
LIGHT DETECTOR AMPLIFIER	EACH	1
ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED	FOOT	425

NOTE
 * 1. THIS PLAN IS FOR THE PURPOSE OF INSTALLING EMERGENCY VEHICLE PREEMPTION EQUIPMENT AS SHOWN PER PLAN INDICATED IN THE SCHEDULE OF QUANTITIES. ALL OTHER EQUIPMENT SHOWN SHALL BE DISREGARDED.

* PLANS MODIFIED BY ROBINSON ENGINEERING, LTD

REVISIONS	
NAME	DATE
* ADDED EV PREEMPTION	01/02/08

VILLAGE OF GLENWOOD
 LOCATION NO. 55

ILLINOIS DEPARTMENT OF TRANSPORTATION

PROPOSED EMERGENCY VEHICLE PREEMPTION CABLE PLAN, PHASE DESIGNATION DIAGRAM & SCHEDULE OF QUANTITIES
 COTTAGE GROVE AVENUE & GLENWOOD-DYER ROAD

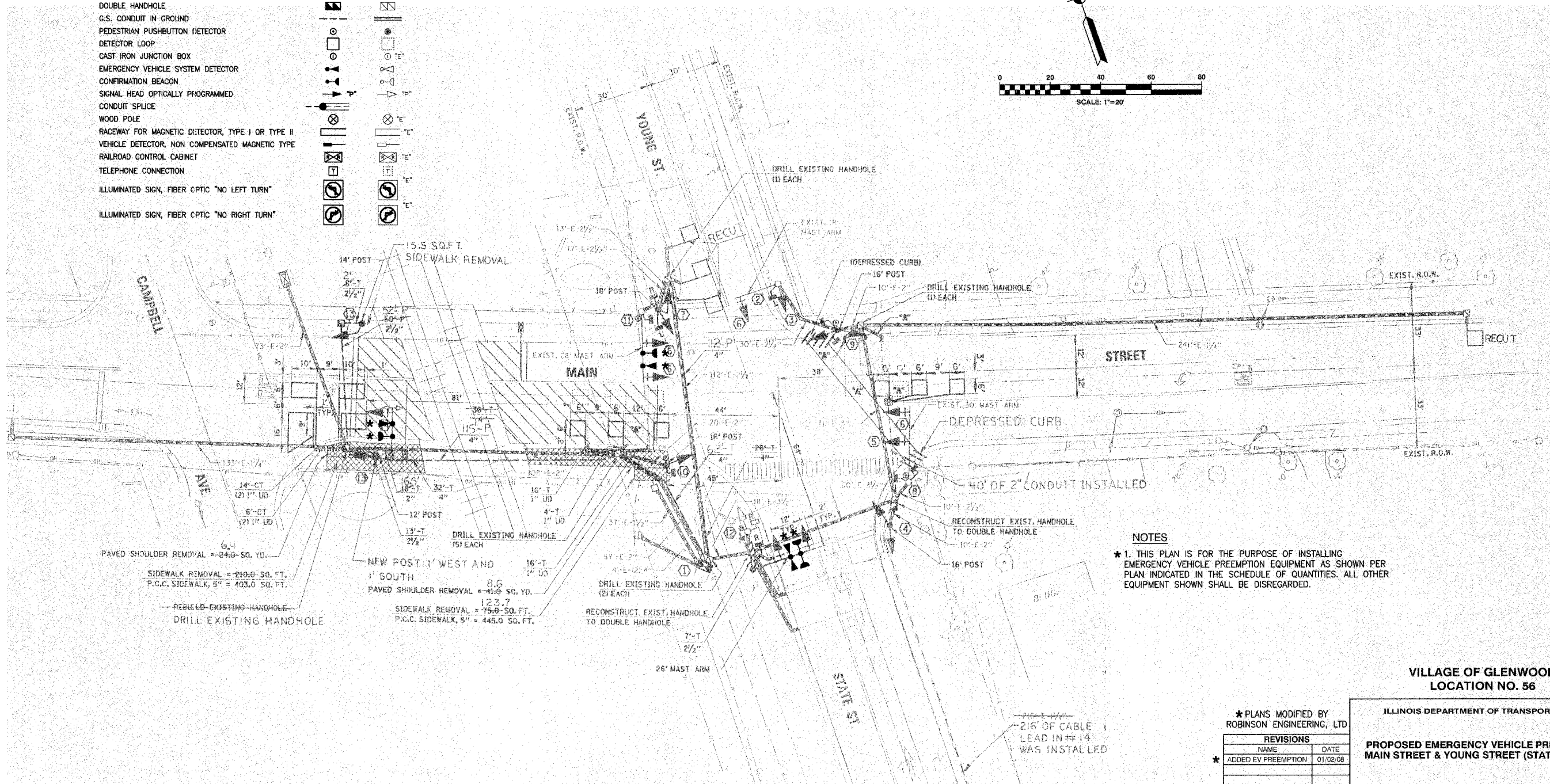
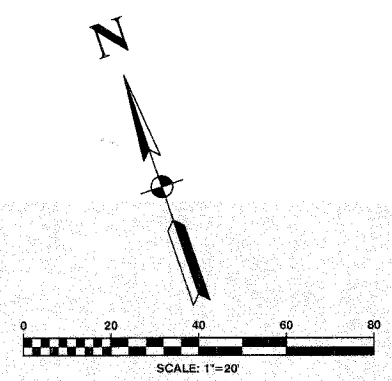
SCALE: VERT. _____ DRAWN BY _____
 HORIZ. _____ CHECKED BY _____
 DATE _____

F. A. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00148-00-TL	COOK	273	130
STA.	TO STA.			
FED. ROAD DIST. NO.	UNPOS	FED. AID PROJECT		

CONTRACT NO. 63003

TRAFFIC SIGNAL LEGEND

	PROPOSED	EXISTING
CONTROLLER		
SERVICE INSTALLATION		
SIGNAL HEAD		
SIGNAL HEAD WITH BACKPLATE		
SIGNAL HEAD, PEDESTRIAN		
SIGNAL POST		
MAST ARM ASSEMBLY AND POLE, STEEL		
MAST ARM ASSEMBLY AND POLE, ALUMINUM		
COMBINATION MAST ARM ASSEMBLY AND POLE STEEL WITH LUMINAIRE		
UNIT DUCT		
COMMON TRENCH		
HANDHOLE		
HEAVY DUTY HANDHOLE		
DOUBLE HANDHOLE		
G.S. CONDUIT IN GROUND		
PEDESTRIAN PUSHBUTTON DETECTOR		
DETECTOR LOOP		
CAST IRON JUNCTION BOX		
EMERGENCY VEHICLE SYSTEM DETECTOR		
CONFIRMATION BEACON		
SIGNAL HEAD OPTICALLY PROGRAMMED		
CONDUIT SPLICE		
WOOD POLE		
RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II		
VEHICLE DETECTOR, NON COMPENSATED MAGNETIC TYPE		
RAILROAD CONTROL CABINET		
TELEPHONE CONNECTION		
ILLUMINATED SIGN, FIBER OPTIC "NO LEFT TURN"		
ILLUMINATED SIGN, FIBER OPTIC "NO RIGHT TURN"		



NOTES
 * 1. THIS PLAN IS FOR THE PURPOSE OF INSTALLING EMERGENCY VEHICLE PREEMPTION EQUIPMENT AS SHOWN PER PLAN INDICATED IN THE SCHEDULE OF QUANTITIES. ALL OTHER EQUIPMENT SHOWN SHALL BE DISREGARDED.

VILLAGE OF GLENWOOD
 LOCATION NO. 56

* PLANS MODIFIED BY
 ROBINSON ENGINEERING, LTD

REVISIONS	
NAME	DATE
* ADDED EV PREEMPTION	01/02/08

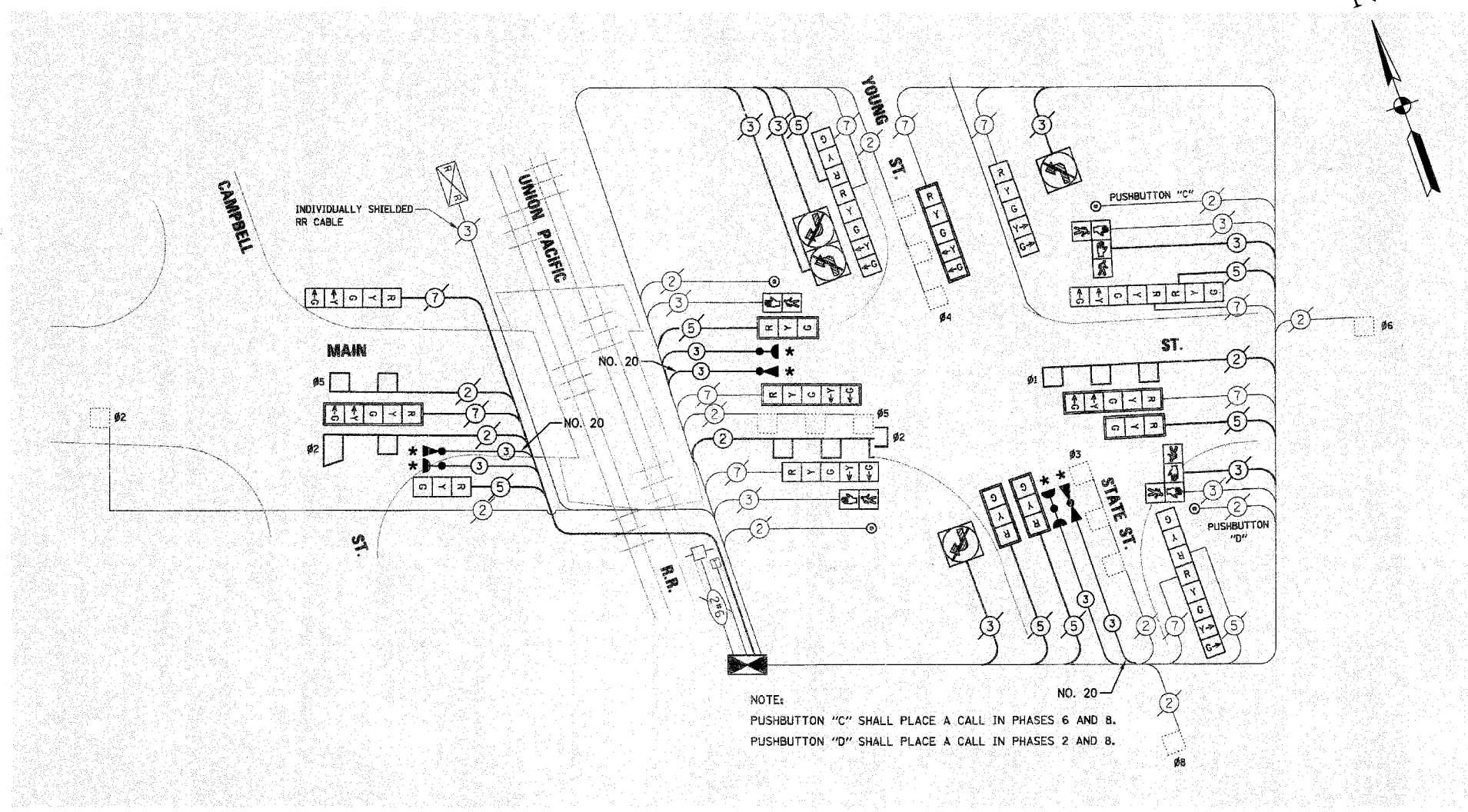
ILLINOIS DEPARTMENT OF TRANSPORTATION

PROPOSED EMERGENCY VEHICLE PREEMPTION
 MAIN STREET & YOUNG STREET (STATE STREET)

SCALE: VERT. _____
 HORIZ. _____
 DATE _____ DRAWN BY _____
 CHECKED BY _____

F. A. SHEET	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00146-00-TL	COOK	273	131
STA.	TO STA.			
FED. ROAD DIST. NO.	ALIGNED	FED. AID PROJECT		

CONTRACT NO. 63003



EXISTING	PROPOSED	
		8" TRAFFIC SIGNAL SECTION
		12" TRAFFIC SIGNAL SECTION
		12" PEDESTRIAN SIGNAL SECTION
		12" PEDESTRIAN SIGNAL SECTION
		CONTROLLER CABINET
		SERVICE INSTALLATION
		TELEPHONE CONNECTION
		MAGNETIC DETECTOR
		EMERGENCY VEHICLE LIGHT DETECTOR
		CONFIRMATION BEACON
		PUSHBUTTON DETECTOR
		VEHICLE DETECTOR, INDUCTION LOOP
		DENOTES NUMBER OF CONDUCTORS. ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED.
		SIGNAL FACE WITH BACKPLATE "T" INDICATES PROGRAMMED HEAD
		RAILROAD CONTROL CABINET
		ILLUMINATED SIGN, FIBER OPTIC "NO LEFT TURN"
		ILLUMINATED SIGN, FIBER OPTIC "NO RIGHT TURN"
		GROUND ROD AT HANDHOLE, DOUBLE HANDHOLE, OR CONTROLLER
		GROUND ROD AT POST OR MAST ARM POLE
		GROUND ROD AT ELECTRIC SERVICE INSTALLATION

PAY ITEM	UNIT	QUANTITY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	580
LIGHT DETECTOR	EACH	3
LIGHT DETECTOR AMPLIFIER	EACH	1
ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED	FOOT	580

NOTE
 * 1. THIS PLAN IS FOR THE PURPOSE OF INSTALLING EMERGENCY VEHICLE PREEMPTION EQUIPMENT AS SHOWN PER PLAN INDICATED IN THE SCHEDULE OF QUANTITIES. ALL OTHER EQUIPMENT SHOWN SHALL BE DISREGARDED.

VILLAGE OF GLENWOOD
 LOCATION NO. 56

ILLINOIS DEPARTMENT OF TRANSPORTATION

PROPOSED EMERGENCY VEHICLE PREEMPTION CABLE PLAN
 SCHEDULE OF QUANTITIES
 MAIN STREET & YOUNG STREET (STATE STREET)

* PLANS MODIFIED BY
 ROBINSON ENGINEERING, LTD.

REVISIONS	
NAME	DATE
ADDED EV PREEMPTION	01/02/08

SCALE: VERT. _____
 HORIZ. _____

DATE _____ DRAWN BY _____
 CHECKED BY _____

ROBINSON ENGINEERING, LTD.
 7020 SOUTH PARK AVENUE, SOUTH HOLLAND, ILLINOIS 60470
 (708) 231-8700 FAX (708) 351-9000
 ILLINOIS DESIGN PROFESSIONAL REGISTRATION NO. 134621 02

F. A. REC.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00146-00-TL	COOK	273	133
STA.		TO STA.		
FED. ROAD DIST. NO.	ALIGNS	FED. RD PROJECT		

CONTRACT NO. 63003

PROPOSED RAILROAD PEREEMPTION SEQUENCE OF OPERATION


CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER	RAILROAD PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER																		CLEARANCE TO NORMAL SEQUENCE	
	1A	1B	1C	1D	1E	1F	1G	1H	1J	1K	1L	1P	1Q	1R	1S	1T	1U	1V		
CHANGE FROM EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	2																		3	
CHANGE TO RAILROAD PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	2	1C	2	1E	2	1G	2	1J	2	1L	2	1Q	2	1Q	2	3	4	5		
MAIN ST (WEST OF TRACKS) CANTILEVER & NEAR LEFT SIGNALS	E/B	R	R	R	Y	R	Y	R	R	R	R	Y	R	R	R	R	R	R		
MAIN ST (WEST OF TRACKS) NEAR RIGHT SIGNAL	E/B	R	R	R	Y	R	Y	R	R	R	R	Y	R	R	R	R	R	R		
MAIN ST (EAST OF TRACKS) END MAST ARM & FAR LEFT SIGNALS	E/B	R	R	R	G	G	G	R	R	R	R	Y	R	R	R	G	Y	R		
MAIN ST (EAST OF TRACKS) FAR RIGHT SIGNAL	E/B	R	R	R	G	G	G	R	R	R	R	Y	R	R	R	G	Y	R		
MAIN ST END MAST ARM AND FAR LEFT SIGNALS	W/B	R	Y	R	R	R	Y	R	R	R	R	Y	R	R	R	R	R	R		
MAIN ST NEAR RIGHT & FAR RIGHT SIGNALS	W/B	R	Y	R	R	R	Y	R	R	R	R	Y	R	R	R	R	R	R		
STATE/YOUNG ST END MAST ARM AND FAR LEFT SIGNALS	N/B	R	R	R	R	R	R	Y	R	Y	R	R	R	Y	R	R	R	R		
STATE/YOUNG ST NEAR RIGHT & FAR RIGHT SIGNALS	N/B	R	R	R	R	R	R	Y	R	Y	R	R	R	Y	R	R	R	R		
STATE/YOUNG ST ALL SIGNALS	S/B	R	R	R	R	R	R	R	R	R	R	Y	R	R	R	R	R	R		
PEDESTRIAN SIGNALS CROSSING MAIN ST EAST SIDE OF STATE/YOUNG ST		H	H	H	H	H	H	H	FH	H	FH	H	H	H	H	H	H	H		
PEDESTRIAN SIGNALS CROSSING STATE ST NORTH SIDE OF MAIN ST		H	FH	H	H	H	FH	H	H	H	H	H	H	H	H	H	H	H		
PEDESTRIAN SIGNALS CROSSING STATE ST SOUTH SIDE OF MAIN ST		H	H	H	FH	H	FH	H	H	H	H	H	H	H	H	H	H	H		
INTERNALLY ILLUMINATED NO LEFT TURN SIGN		NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT		
INTERNALLY ILLUMINATED NO RIGHT TURN SIGN		NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT		

◇ EMERGENCY VEHICLE SEQUENCE SHALL PROVIDE PROPER CLEARANCE TO RESUME THE NORMAL SEQUENCE OF OPERATION OR PROPER CLEARANCE INTERVAL TO DISPLAY A DIFFERENT EMERGENCY VEHICLE INTERVAL AFTER FIRE PREEMPTION (IF APPLICABLE) OR EMERGENCY VEHICLE INTERVALS 3, 4, OR 5 IS TERMINATED.

NOTES

- P = ILLUMINATED PERSON = WALK
- FH = ILLUMINATED FLASHING HAND = FLASHING DON'T WALK
- H = ILLUMINATED SOLID HAND = DON'T WALK
- * - "P" SHALL APPEAR ONLY UPON PUSHBUTTON ACTIVATION.
- ** - "FH" SHALL TERMINATE AT THE COMPLETION OF THE PEDESTRIAN CLEARANCE INTERVAL.

NRT = "NO RIGHT TURN" OR 

NLT = "NO LEFT TURN" OR 

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION

CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER	EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER																		CLEARANCE TO NORMAL SEQUENCE
	1A	1B	1C	1D	1E	1F	1G	1H	1J	1K	1L	1M	1N	1P	1Q	1R	1S	1T	
CHANGE TO EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	1B	1C	1D	3 OR 4	3	1G	4	1J	1K	3	1M	1N	1P	4	3	1S	1T	1U	
MAIN ST (WEST OF TRACKS) CANTILEVER & NEAR LEFT SIGNALS	E/B	R	R	R	R	R	R	G	Y	G	G	Y	R	R	R	G	Y	R	
MAIN ST (WEST OF TRACKS) NEAR RIGHT SIGNAL	E/B	R	R	R	R	R	R	G	G	G	Y	R	R	R	G	Y	R	R	
MAIN ST (EAST OF TRACKS) END MAST ARM & FAR LEFT SIGNALS	E/B	R	R	R	R	R	R	G	G	G	Y	R	G	G	G	Y	R	R	
MAIN ST (EAST OF TRACKS) FAR RIGHT SIGNAL	E/B	R	R	R	R	R	R	G	G	G	Y	R	G	G	G	Y	R	R	
MAIN ST END MAST ARM AND FAR LEFT SIGNALS	W/B	R	R	R	R	G	Y	R	R	R	R	R	R	G	G	G	Y	R	
MAIN ST NEAR RIGHT & FAR RIGHT SIGNALS	W/B	R	R	R	R	G	Y	R	R	R	R	R	R	G	G	G	Y	R	
STATE/YOUNG ST END MAST ARM AND FAR LEFT SIGNALS	N/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	Y	
STATE/YOUNG ST NEAR RIGHT & FAR RIGHT SIGNALS	N/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	Y	
STATE/YOUNG ST ALL SIGNALS	S/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	Y	
PEDESTRIAN SIGNALS CROSSING MAIN ST EAST SIDE OF STATE/YOUNG ST		H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	
PEDESTRIAN SIGNALS CROSSING STATE ST NORTH SIDE OF MAIN ST		H	H	H	H	**FH	H	**FH	H	H	**FH	H	H	**FH	H	H	H	H	
PEDESTRIAN SIGNALS CROSSING STATE ST SOUTH SIDE OF MAIN ST		H	H	H	H	H	H	**FH	**FH	H	**FH	H	H	**FH	H	H	H	H	
INTERNALLY ILLUMINATED NO LEFT TURN SIGN		OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	
INTERNALLY ILLUMINATED NO RIGHT TURN SIGN		OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	

◇ EMERGENCY VEHICLE SEQUENCE SHALL PROVIDE PROPER CLEARANCE TO RESUME THE NORMAL SEQUENCE OF OPERATION OR PROPER CLEARANCE INTERVAL TO DISPLAY A DIFFERENT EMERGENCY VEHICLE INTERVAL AFTER FIRE PREEMPTION (IF APPLICABLE) OR EMERGENCY VEHICLE INTERVALS 3, 4, OR 5 IS TERMINATED.

VILLAGE OF GLENWOOD LOCATION NO. 56

* PLANS MODIFIED BY ROBINSON ENGINEERING, LTD.

REVISIONS	
NAME	DATE
ADDED EV PREEMPTION	01/02/08

ILLINOIS DEPARTMENT OF TRANSPORTATION

PROPOSED EMERGENCY VEHICLE PREEMPTION RAILROAD PREEMPTION SEQUENCE OF OPERATION

EVP SEQUENCE OF OPERATION

MAIN STREET & YOUNG STREET (STATE STREET)

SCALE: VERT. _____

HORIZ. _____

DATE _____

DRAWN BY _____

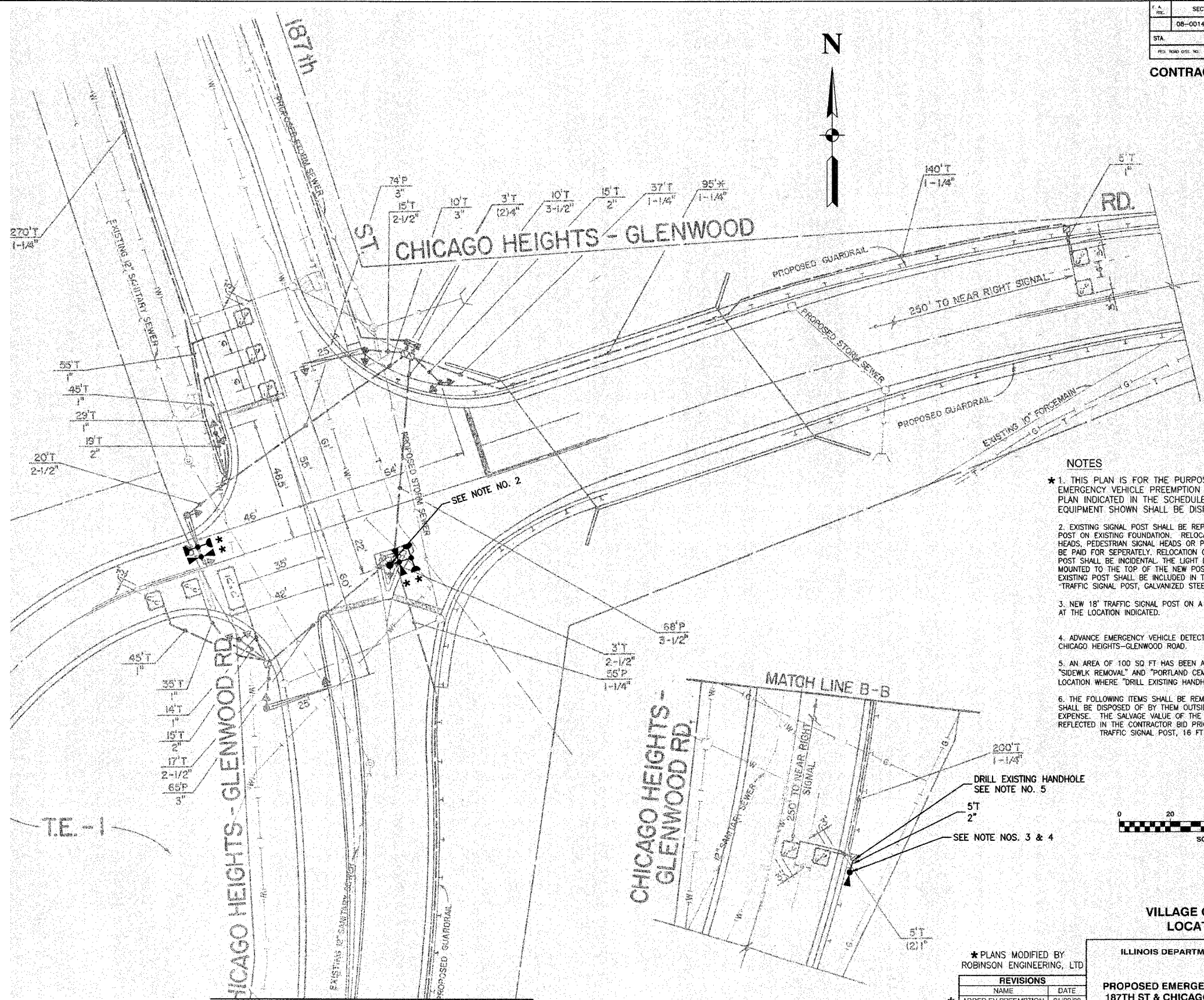
CHECKED BY _____

F.A. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00146-00-TL	COOK	273	134
STA.	TO STA.			
FED. ROAD DIST. NO.	CLASS.	FED. RD. PROJECT		

CONTRACT NO. 63003

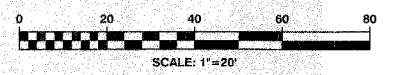
TRAFFIC SIGNAL LEGEND

	PROPOSED	EXISTING
CONTROLLER		
SERVICE INSTALLATION		
SIGNAL HEAD		
SIGNAL HEAD WITH BACKPLATE		
SIGNAL HEAD, PEDESTRIAN		
SIGNAL POST		
MAST ARM ASSEMBLY AND POLE, STEEL		
MAST ARM ASSEMBLY AND POLE, ALUMINUM		
COMBINATION MAST ARM ASSEMBLY AND POLE STEEL WITH LUMINAIRE		
UNIT DUCT		
COMMON TRENCH		
HANDHOLE		
HEAVY DUTY HANDHOLE		
DOUBLE HANDHOLE		
G.S. CONDUIT IN GROUND		
PEDESTRIAN PUSHBUTTON DETECTOR		
DETECTOR LOOP		
CAST IRON JUNCTION BOX		
EMERGENCY VEHICLE SYSTEM DETECTOR		
CONFIRMATION BEACON		
SIGNAL HEAD OPTICALLY PROGRAMMED		
CONDUIT SPLICE		
WOOD POLE		
RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II		
VEHICLE DETECTOR, NON COMPENSATED MAGNETIC TYPE		
RAILROAD CONTROL CABINET		
TELEPHONE CONNECTION		
ILLUMINATED SIGN, FIBER OPTIC "NO LEFT TURN"		
ILLUMINATED SIGN, FIBER OPTIC "NO RIGHT TURN"		



NOTES

- * 1. THIS PLAN IS FOR THE PURPOSE OF INSTALLING EMERGENCY VEHICLE PREEMPTION EQUIPMENT AS SHOWN PER PLAN INDICATED IN THE SCHEDULE OF QUANTITIES. ALL OTHER EQUIPMENT SHOWN SHALL BE DISREGARDED.
- 2. EXISTING SIGNAL POST SHALL BE REPLACED WITH NEW 18-FOOT SIGNAL POST ON EXISTING FOUNDATION. RELOCATION OF ANY EXISTING SIGNAL HEADS, PEDESTRIAN SIGNAL HEADS OR PEDESTRIAN PUSHBUTTONS SHALL BE PAID FOR SEPARATELY. RELOCATION OF ANY SIGNS BRACKETED TO THE POST SHALL BE INCIDENTAL. THE LIGHT DETECTOR SHALL BE BRACKET MOUNTED TO THE TOP OF THE NEW POST. THE SALVAGE VALUE OF THE EXISTING POST SHALL BE INCLUDED IN THE PRICE OF THE PAY ITEM. "TRAFFIC SIGNAL POST, GALVANIZED STEEL, 18 FT."
- 3. NEW 18' TRAFFIC SIGNAL POST ON A CONCRETE FOUNDATION, TYPE "A" AT THE LOCATION INDICATED.
- 4. ADVANCE EMERGENCY VEHICLE DETECTOR HEAD FOR NORTHBOUND CHICAGO HEIGHTS-GLENWOOD ROAD.
- 5. AN AREA OF 100 SQ FT HAS BEEN ASSUMED FOR THE PAY ITEMS "SIDEWALK REMOVAL" AND "PORTLAND CEMENT SIDEWALK, 5 INCH" AT EACH LOCATION WHERE "DRILL EXISTING HANDHOLE" OCCURS.
- 6. THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACTOR BID PRICE:
 TRAFFIC SIGNAL POST, 16 FT. EACH 1



VILLAGE OF GLENWOOD
LOCATION NO. 57

ILLINOIS DEPARTMENT OF TRANSPORTATION

PROPOSED EMERGENCY VEHICLE PREEMPTION
187TH ST & CHICAGO HEIGHTS-GLENWOOD RD

* PLANS MODIFIED BY
ROBINSON ENGINEERING, LTD

REVISIONS	
NAME	DATE
* ADDED EV PREEMPTION NEW 18' POSTS	01/02/08

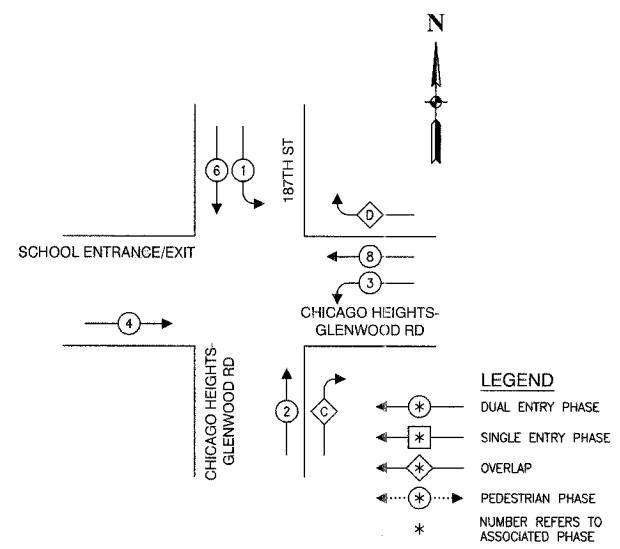
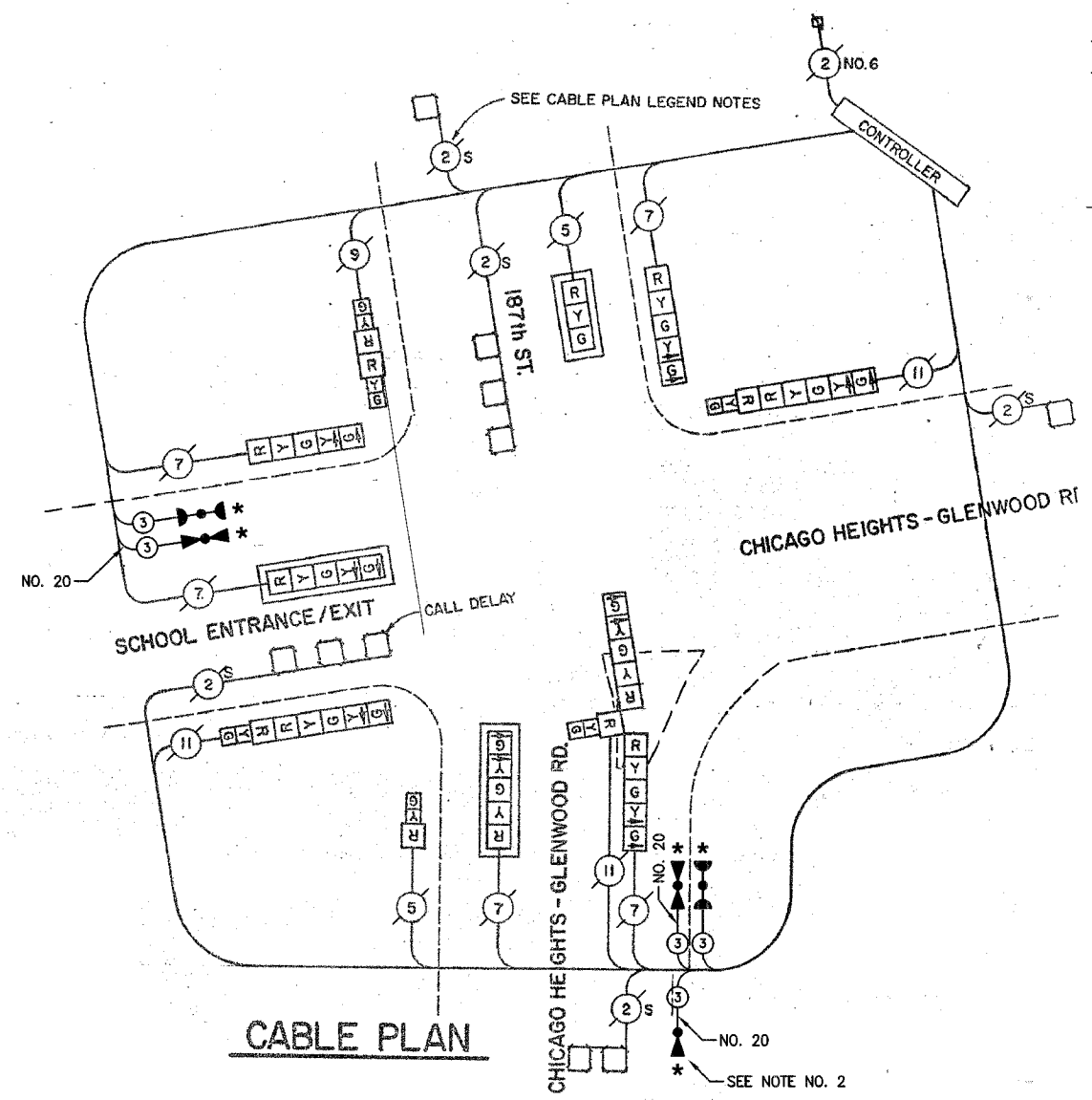
SCALE: VERT.
HORIZ.
DATE: DRAWN BY
CHECKED BY

F. A. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00146-00-TL	COOK	273	135
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

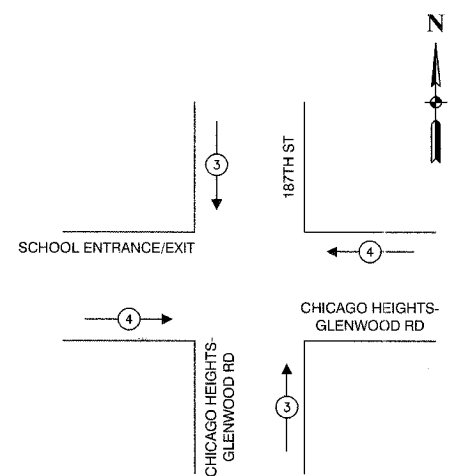
CONTRACT NO. 63003

CABLE PLAN LEGEND

EXISTING	PROPOSED	
		8" TRAFFIC SIGNAL SECTION
		12" TRAFFIC SIGNAL SECTION
		12" PEDESTRIAN SIGNAL SECTION
		12" PEDESTRIAN SIGNAL SECTION
		CONTROLLER CABINET
		SERVICE INSTALLATION
		TELEPHONE CONNECTION
		MAGNETIC DETECTOR
		EMERGENCY VEHICLE LIGHT DETECTOR
		CONFIRMATION BEACON
		PUSHBUTTON DETECTOR
		VEHICLE DETECTOR, INDUCTION LOOP
		2 DENOTES NUMBER OF CONDUCTORS. ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED.
		SIGNAL FACE WITH BACKPLATE "P" INDICATES PROGRAMMED HEAD
		RAILROAD CONTROL CABINET
		ILLUMINATED SIGN, FIBER OPTIC "NO LEFT TURN"
		ILLUMINATED SIGN, FIBER OPTIC "NO RIGHT TURN"
		H/C GROUND ROD AT HANDHOLE, DOUBLE HANDHOLE, OR CONTROLLER
		P GROUND ROD AT POST OR MAST ARM POLE
		S GROUND ROD AT ELECTRIC SERVICE INSTALLATION



OVERLAP	PERMISSIVE	PROTECTED	DISPLAY
C = 2	+ 3	- 2	
D = 8	+ 1	- 8	



EMERGENCY VEHICLE PREEMPTION SEQUENCE

PROPOSED EMERGENCY VEHICLE PREEMPTORS:		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	↓	↑
	←	→

SCHEDULE OF QUANTITIES		
PAY ITEM	UNIT	QUANTITY
PORTLAND CEMENT CONCRETE SIDEWALK 6 INCH	SQ FT	100
SIDEWALK REMOVAL	SQ FT	100
CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	5
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	297
TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.	EACH	2
CONCRETE FOUNDATION, TYPE A	EACH	4
DRILL EXISTING HANDHOLE	EACH	1
LIGHT DETECTOR	EACH	3
LIGHT DETECTOR AMPLIFIER	EACH	1
RELOCATE EXISTING SIGNAL HEAD	EACH	3
REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	FOOT	30
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED SHIELDED	FOOT	575

NOTE

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2. ADVANCE EMERGENCY VEHICLE DETECTOR HEAD FOR NORTHBOUND CHICAGO HEIGHTS-GLENWOOD ROAD. SEE TRAFFIC SIGNAL PLAN FOR DETAILS.

* PLANS MODIFIED BY ROBINSON ENGINEERING, LTD

REVISIONS	
NAME	DATE
NEW 18" POSTS	01/02/06

VILLAGE OF GLENWOOD
LOCATION NO. 57

ILLINOIS DEPARTMENT OF TRANSPORTATION

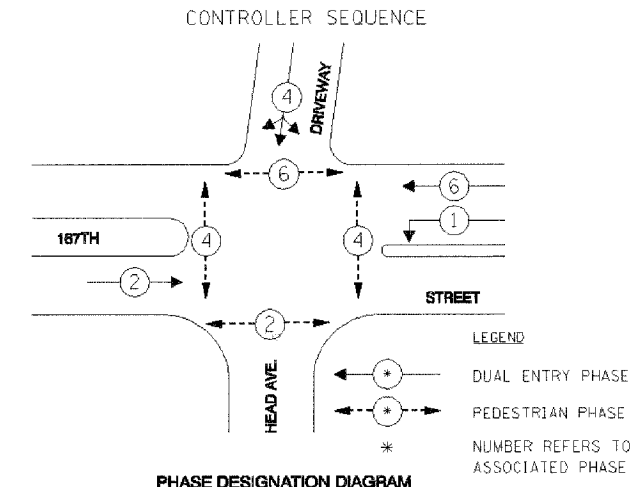
PROPOSED EMERGENCY VEHICLE PREEMPTION
CABLE PLAN, PHASE DESIGNATION DIAGRAM &
SCHEDULE OF QUANTITIES
187TH ST & CHICAGO HEIGHTS-GLENWOOD RD

SCALE: VERT. HORIZ.
DATE: DRAWN BY: CHECKED BY:

ROBINSON ENGINEERING, LTD.
1700 SOUTH PARK AVENUE SOUTH HOLLAND, ILLINOIS 60473
(708) 551-4700 FAX (708) 251-0848
ILLINOIS DESIGN FIRM REGISTRATION NO. 194001261

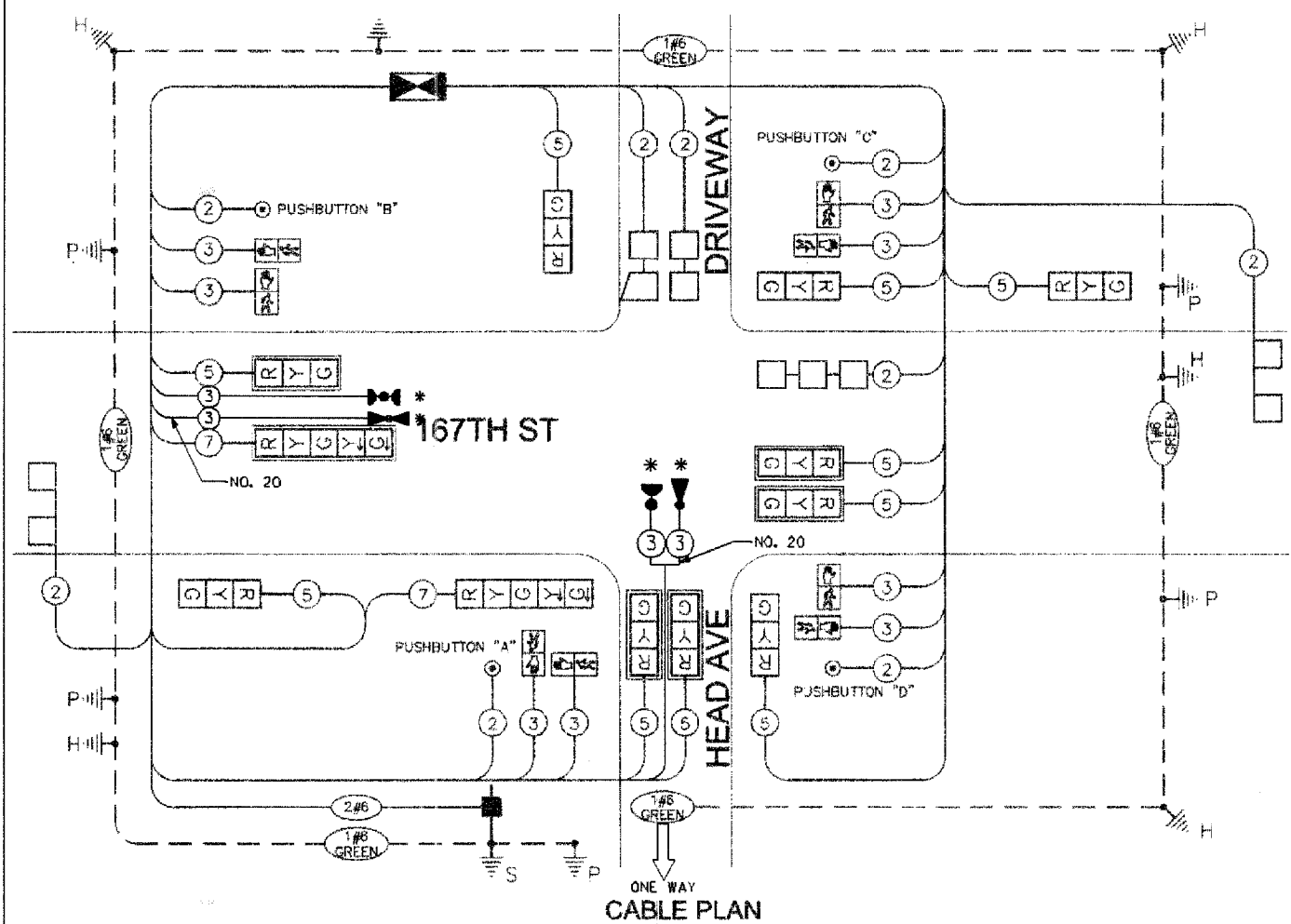
RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
08-000146-00-TL		COOK		137
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 63003				

CABLE PLAN LEGEND	PROPOSED	EXISTING
TRAFFIC SIGNAL CONTROLLER		
EXISTING TRAFFIC SIGNAL CONTROLLER		
INTERSECTION & SAMPLING (SYSTEM) DETECTORS		
TRAFFIC SIGNAL CABLE NUMBER		
LOOP DETECTOR CABLE		
TRAFFIC SIGNAL DETAIL WALK SYMBOL		
TRAFFIC SIGNAL DETAIL BACKPLATE		
TRAFFIC SIGNAL DETAIL LEFT TURN GREEN		
TRAFFIC SIGNAL DETAIL LEFT TURN YELLOW		
TRAFFIC SIGNAL DETAIL WALK DW LETTERS		
TRAFFIC SIGNAL PRIORITY VEHICLE DETECTOR		
TRAFFIC SIGNAL CONFIRMATION BEACON		
TRAFFIC SIGNAL PEDESTRIAN PUSH BUTTON		
TELEPHONE CONNECTION		
GROUNDING SYSTEM CONNECTION		



EMERGENCY VEHICLE PREEMPTION SEQUENCE

PROPOSED EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	→	↓



SCHEDULE OF QUANTITIES

PAY ITEM	UNIT	QUANTITY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	320
LIGHT DETECTOR	EACH	2
LIGHT DETECTOR AMPLIFIER	EACH	1
ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED	FOOT	320

NOTE
 * THIS PLAN IS FOR THE PURPOSE OF INSTALLING EMERGENCY VEHICLE PREEMPTION EQUIPMENT AS SHOWN PER PLAN INDICATED IN THE SCHEDULE OF QUANTITIES. ALL OTHER EQUIPMENT SHOWN SHALL BE DISREGARDED.

Globetrotters®
 Engineering Corporation
 ENGINEERS ARCHITECTS
 300 South Wacker Drive
 Chicago, Illinois 60606

REVISIONS

NAME	DATE
ADDED EV PREEMPTION	01/02/08

**VILLAGE OF HAZEL CREST
 LOCATION NO. 58**

ILLINOIS DEPARTMENT OF TRANSPORTATION
 PROPOSED EMERGENCY VEHICLE PREEMPTION
 CABLE PLAN, PHASE DESIGNATION DIAGRAM &
 SCHEDULE OF QUANTITIES
 167TH STREET & HEAD AVENUE
 HAZEL CREST, ILLINOIS

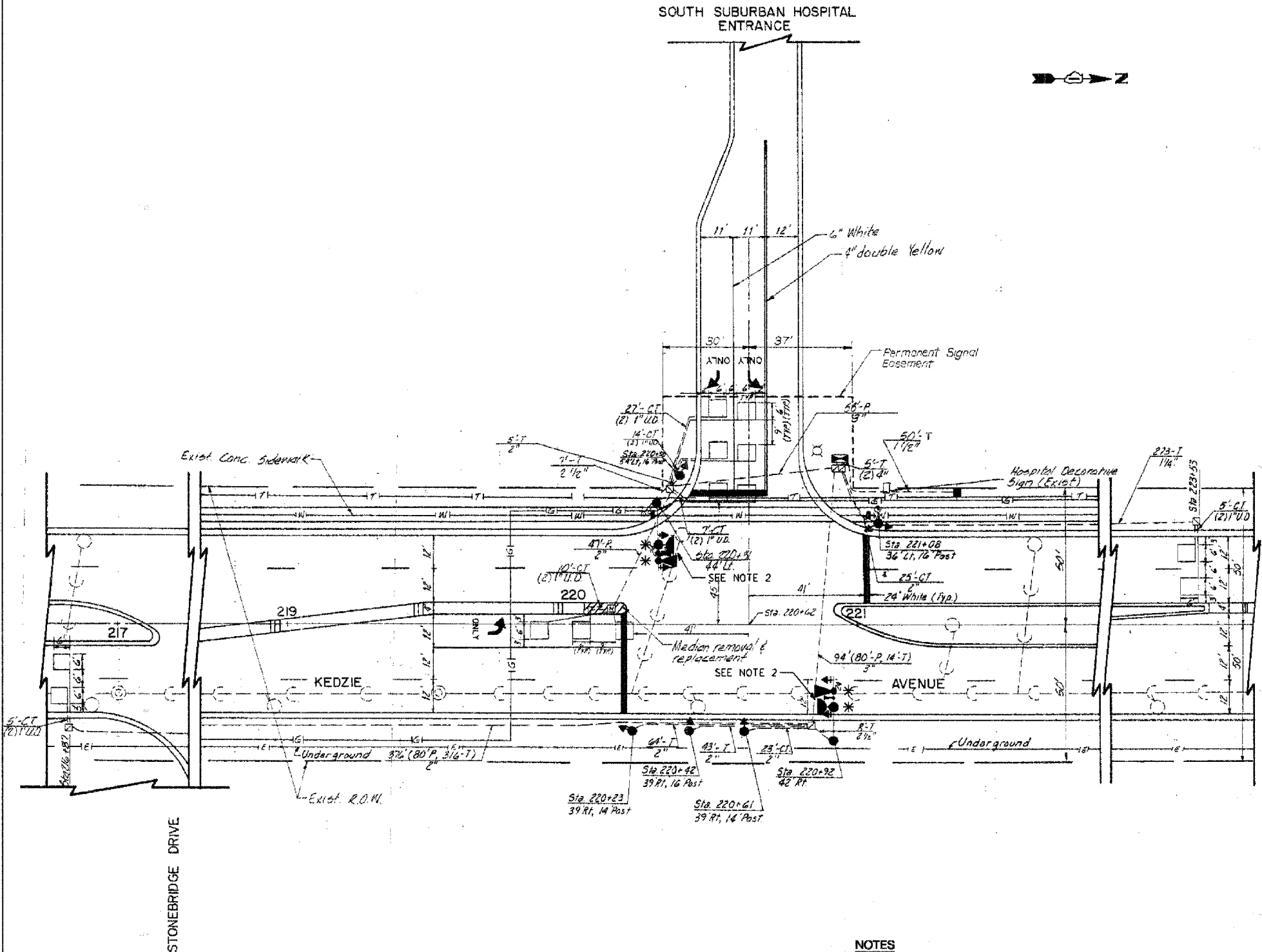
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 HORIZ. N.T.S.

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 CHECKED BY CT

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-000146-00-TL	COOK		138
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 63003				

TRAFFIC SIGNALS LEGEND

TRAFFIC SIGNAL CONTROLLER		"E"	
TRAFFIC SIGNAL WOOD POLE		"E"	
TRAFFIC SIGNAL VEHICLE DETECTOR MAGNETIC			
TRAFFIC SIGNAL CLOSED CIRCUIT TV			
TRAFFIC SIGNAL VIDEO DETECTOR			
TRAFFIC SIGNAL COMBINATION MAST ARM			
TRAFFIC SIGNAL STEEL MAST			
TRAFFIC SIGNAL POST			
TRAFFIC SIGNAL TEMPORARY SIGNAL HEAD			
TRAFFIC SIGNAL HEAD			
TRAFFIC SIGNAL HEAD WITH BACKPLATE			
TRAFFIC SIGNAL SERVICE INSTALLATION			
TRAFFIC SIGNAL PRIORITY VEHICLE DETECTOR			
TRAFFIC SIGNAL CONFIRMATION BEACON			
TRAFFIC SIGNAL PEDESTRIAN SIGNAL HEAD		"E"	
TRAFFIC SIGNAL PEDESTRIAN PUSH BUTTON			
TRAFFIC SIGNAL JUNCTION BOX		"E"	
TRAFFIC SIGNAL HEAVY DUTY HANDHOLE		"E"	
TRAFFIC SIGNAL HANDHOLE			
TRAFFIC SIGNAL DOUBLE HANDHOLE			
TRAFFIC SIGNAL DETECTOR LOOP			
TRAFFIC SIGNAL DETECTOR RACEWAY			
TRAFFIC SIGNAL CONDUIT SPLICE			
TRAFFIC SIGNAL UNDERGROUND CABLE			
TRAFFIC SIGNAL UNDERGROUND CONDUIT			



NOTES

- * 1. THIS PLAN IS FOR THE PURPOSE OF INSTALLING EMERGENCY VEHICLE PREEMPTION EQUIPMENT AS SHOWN PER PLAN INDICATED IN THE SCHEDULE OF QUANTITIES. ALL OTHER EQUIPMENT SHOWN SHALL BE DISREGARDED.
- 2. EXISTING LIGHT DETECTORS, LIGHT TRANSMITTERS, AND LIGHT DETECTOR AMPLIFIER REMOVED, TO BE RETURNED TO THE VILLAGE OF HAZEL CREST PUBLIC WORKS DEPARTMENT.

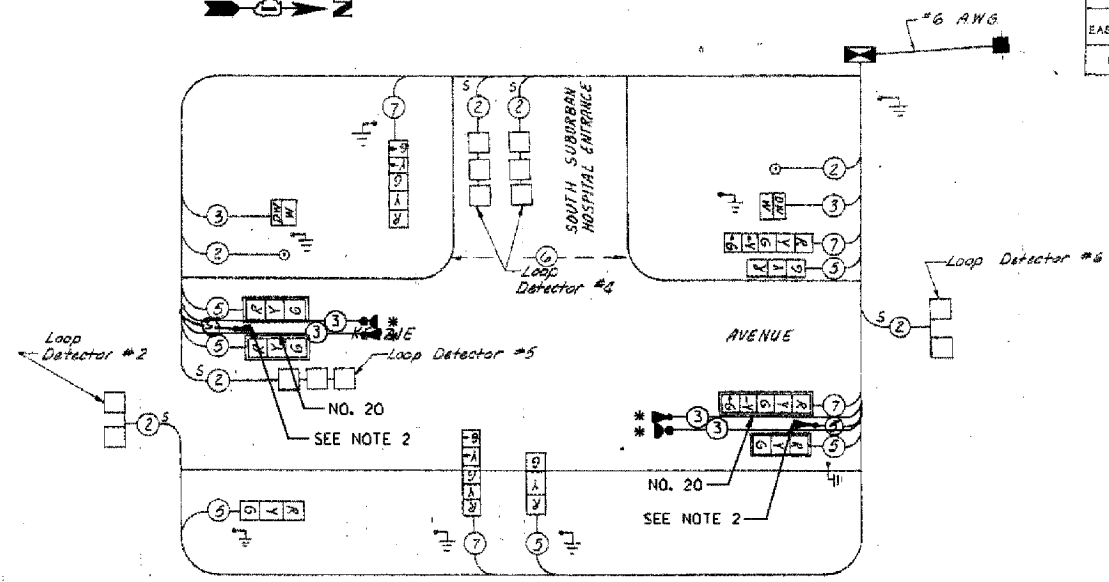
VILLAGE OF HAZEL CREST
LOCATION NO. 59

<p>Globetrotters Engineering Corporation ENGINEERS ARCHITECTS 300 South Wacker Drive Chicago, Illinois 60606</p>	<table border="1"> <thead> <tr> <th colspan="2">REVISIONS</th> </tr> <tr> <th>NAME</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>ADDED EV PREEMPTION</td> <td>01/02/08</td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </tbody> </table>	REVISIONS		NAME	DATE	ADDED EV PREEMPTION	01/02/08																	<p>ILLINOIS DEPARTMENT OF TRANSPORTATION</p> <p>PROPOSED EMERGENCY VEHICLE PREEMPTION PLAN SOUTH SUBURBAN HOSPITAL & KEDZIE AVENUE HAZEL CREST, ILLINOIS</p> <p>SCALE: VERT. N.T.S. HORIZ. N.T.S.</p> <p>DRAWN BY SL CHECKED BY CT</p>
	REVISIONS																							
NAME	DATE																							
ADDED EV PREEMPTION	01/02/08																							

EMERGENCY VEHICLE SEQUENCE OF OPERATIONS

PHASE	NORMAL 2+5	NORMAL 2+6	NORMAL 4	CLEAR TO NORMAL SEQUENCE 2+5
FROM NORMAL SEQUENCE INTERVAL NUMBER	1	4	7	
EMER. VEHICLE SEQUENCE INTERVAL NO.	1A, 1B, 1C, 1D	1E, 1F, 1G, 1H	2A	
INTERVAL	2, 1C, 1D, 2, 1F, 1G, 2			
NORTHBOUND -- far left & left main arm	G, G, G, R, R, R	R, R, R, G, G, Y	R, R, R, G, G, Y	R, R, R, G, G, Y
NORTHBOUND -- right main arm & near right	G, G, G, R, R, R	R, R, R, G, G, Y	R, R, R, G, G, Y	R, R, R, G, G, Y
SOUTHBOUND -- all signals	R, G, Y, R, R, R, R	R, G, Y, R, R, R, R	R, G, Y, R, R, R, R	R, G, Y, R, R, R, R
EASTBOUND -- far left	R, R, R, R, G, Y, R, R	R, R, R, R, G, Y, R, R	R, R, R, R, G, Y, R, R	R, R, R, R, G, Y, R, R
EASTBOUND -- far right and near right	R, R, R, R, G, Y, R, R	R, R, R, R, G, Y, R, R	R, R, R, R, G, Y, R, R	R, R, R, R, G, Y, R, R
PED X - ING: west leg	DW, DW, DW, DW, DW, DW, DW	DW, DW, DW, DW, DW, DW, DW	DW, DW, DW, DW, DW, DW, DW	DW, DW, DW, DW, DW, DW, DW

EMERGENCY VEHICLE SEQUENCE SHALL PROVIDE THE PROPER CLEARANCE INTERVAL TO RESUME THE NORMAL SEQUENCE OF OPERATION.



SCHEDULE OF QUANTITIES		
PAY ITEM	UNIT	QUANTITY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	265
LIGHT DETECTOR	EACH	2
LIGHT DETECTOR AMPLIFIER	EACH	1
ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED	FOOT	265
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	265

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SHALL REMAIN THE PROPERTY OF THE STATE OR MUNICIPALITY AS SPECIFIED IN THE SPECIAL PROVISION, AND SHALL BE STORED AS STATED IN THE SPECIAL PROVISION FOR PICK UP BY STATE OR MUNICIPALITY FORCES:

- 2 EACH LIGHT DETECTOR
- 2 EACH LIGHT TRANSMITTER
- 1 EACH LIGHT DETECTOR AMPLIFIER

PROPOSED SEQUENCE OF OPERATIONS

MOVEMENT	2+5	2+6	4
PHASE	2+5	2+6	4
INTERVAL	1, 2, 3A, 3B, 4, 5, 6A, 6B	7, 8A, 8B, 9A, 9B	
CHANGE TO:			
NORTHBOUND -- far left & left main arm	G, G, Y, R, G, G, Y, R	R, R, R, R, R, R, R, R	R, R, R, R, R, R, R, R
NORTHBOUND -- right main arm & near right	G, G, Y, R, G, G, Y, R	R, R, R, R, R, R, R, R	R, R, R, R, R, R, R, R
SOUTHBOUND -- all signals	R, R, R, R, G, Y, R, R	R, R, R, R, G, Y, R, R	R, R, R, R, G, Y, R, R
EASTBOUND -- far left	R, R, R, R, G, Y, R, R	R, R, R, R, G, Y, R, R	R, R, R, R, G, Y, R, R
EASTBOUND -- far right and near right	R, R, R, R, G, Y, R, R	R, R, R, R, G, Y, R, R	R, R, R, R, G, Y, R, R
PED X - ING: west leg	DW, DW, DW, DW, DW, DW, DW, DW	DW, DW, DW, DW, DW, DW, DW, DW	DW, DW, DW, DW, DW, DW, DW, DW

* TO APPEAR ONLY ON PUSHBUTTON ACTUATION
 ** FLASHING "DON'T WALK" IS TO TERMINATE AT THE COMPLETION OF THE PEDESTRIAN CLEARANCE INTERVAL.

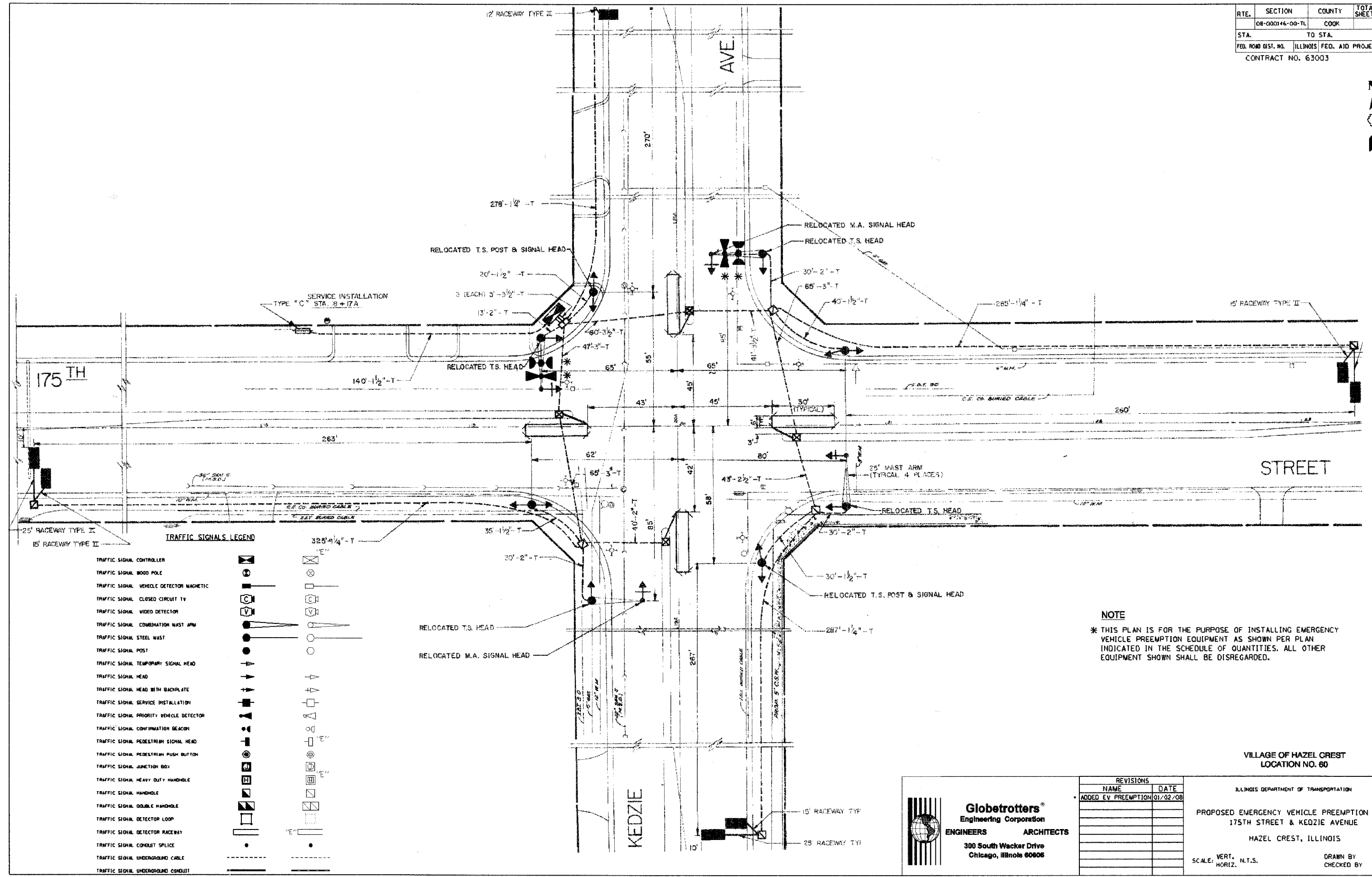
CABLE PLAN LEGEND	PROPOSED	EXISTING
TRAFFIC SIGNAL CONTROLLER		
EXISTING TRAFFIC SIGNAL CONTROLLER		
INTERSECTION & SAMPLING (SYSTEM) DETECTORS		
TRAFFIC SIGNAL CABLE NUMBER		
LOOP DETECTOR CABLE		
TRAFFIC SIGNAL DETAIL WALK SYMBOL		
TRAFFIC SIGNAL DETAIL WALK DW LETTERS		
TRAFFIC SIGNAL DETAIL BACKPLATE		
TRAFFIC SIGNAL DETAIL LEFT TURN GREEN		
TRAFFIC SIGNAL DETAIL LEFT TURN YELLOW		
TRAFFIC SIGNAL DETAIL WALK DW LETTERS		
TRAFFIC SIGNAL PRIORITY VEHICLE DETECTOR		
TRAFFIC SIGNAL CONFIRMATION BEACON		
TRAFFIC SIGNAL PEDESTRIAN PUSH BUTTON		
TELEPHONE CONNECTION		
GROUNDING SYSTEM CONNECTION		

- #### NOTES
- THIS PLAN IS FOR THE PURPOSE OF INSTALLING EMERGENCY VEHICLE PREEMPTION EQUIPMENT AS SHOWN PER PLAN INDICATED IN THE SCHEDULE OF QUANTITIES. ALL OTHER EQUIPMENT SHOWN SHALL BE DISREGARDED.
 - EXISTING LIGHT DETECTORS, LIGHT TRANSMITTERS, AND LIGHT DETECTOR AMPLIFIER REMOVED, TO BE RETURNED TO THE VILLAGE OF HAZEL CREST PUBLIC WORKS DEPARTMENT.

VILLAGE OF HAZEL CREST
 LOCATION NO. 59

<p>Globetrotters Engineering Corporation ENGINEERS ARCHITECTS 300 South Wacker Drive Chicago, Illinois 60606</p>	<table border="1"> <thead> <tr> <th colspan="2">REVISIONS</th> </tr> <tr> <th>NAME</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>ADDED EV PREEMPTION</td> <td>01/02/08</td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </tbody> </table>	REVISIONS		NAME	DATE	ADDED EV PREEMPTION	01/02/08																					<p>ILLINOIS DEPARTMENT OF TRANSPORTATION PROPOSED EMERGENCY VEHICLE PREEMPTION CABLE PLAN, PHASE DESIGNATION DIAGRAM & SCHEDULE OF QUANTITIES SOUTH SUBURBAN HOSPITAL & KEDZIE AVENUE HAZEL CREST, ILLINOIS</p> <p>SCALE: VERT. N.T.S. DRAWN BY: SL HORIZ. CHECKED BY: CT</p>
	REVISIONS																											
NAME	DATE																											
ADDED EV PREEMPTION	01/02/08																											

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
08-000146-00-TL	COOK		140	
STA. TO STA.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 63003				



TRAFFIC SIGNALS LEGEND

- TRAFFIC SIGNAL CONTROLLER
- TRAFFIC SIGNAL WOOD POLE
- TRAFFIC SIGNAL VEHICLE DETECTOR MAGNETIC
- TRAFFIC SIGNAL CLOSED CIRCUIT TV
- TRAFFIC SIGNAL VIDEO DETECTOR
- TRAFFIC SIGNAL COMBINATION MAST ARM
- TRAFFIC SIGNAL STEEL MAST
- TRAFFIC SIGNAL POST
- TRAFFIC SIGNAL TEMPORARY SIGNAL HEAD
- TRAFFIC SIGNAL HEAD
- TRAFFIC SIGNAL HEAD WITH BACKPLATE
- TRAFFIC SIGNAL SERVICE INSTALLATION
- TRAFFIC SIGNAL PRIORITY VEHICLE DETECTOR
- TRAFFIC SIGNAL CONFIRMATION BEACON
- TRAFFIC SIGNAL PEDESTRIAN SIGNAL HEAD
- TRAFFIC SIGNAL PEDESTRIAN PUSH BUTTON
- TRAFFIC SIGNAL JUNCTION BOX
- TRAFFIC SIGNAL HEAVY DUTY HANDHOLE
- TRAFFIC SIGNAL HANDHOLE
- TRAFFIC SIGNAL DOUBLE HANDHOLE
- TRAFFIC SIGNAL DETECTOR LOOP
- TRAFFIC SIGNAL DETECTOR RACEWAY
- TRAFFIC SIGNAL CONDUIT SPLICE
- TRAFFIC SIGNAL UNDERGROUND CABLE
- TRAFFIC SIGNAL UNDERGROUND CONDUIT

NOTE

* THIS PLAN IS FOR THE PURPOSE OF INSTALLING EMERGENCY VEHICLE PREEMPTION EQUIPMENT AS SHOWN PER PLAN INDICATED IN THE SCHEDULE OF QUANTITIES. ALL OTHER EQUIPMENT SHOWN SHALL BE DISREGARDED.

VILLAGE OF HAZEL CREST
LOCATION NO. 80

Globetrotters®
Engineering Corporation
ENGINEERS ARCHITECTS
300 South Wacker Drive
Chicago, Illinois 60606

REVISIONS	
NAME	DATE
ADDED EV PREEMPTION	01/02/08

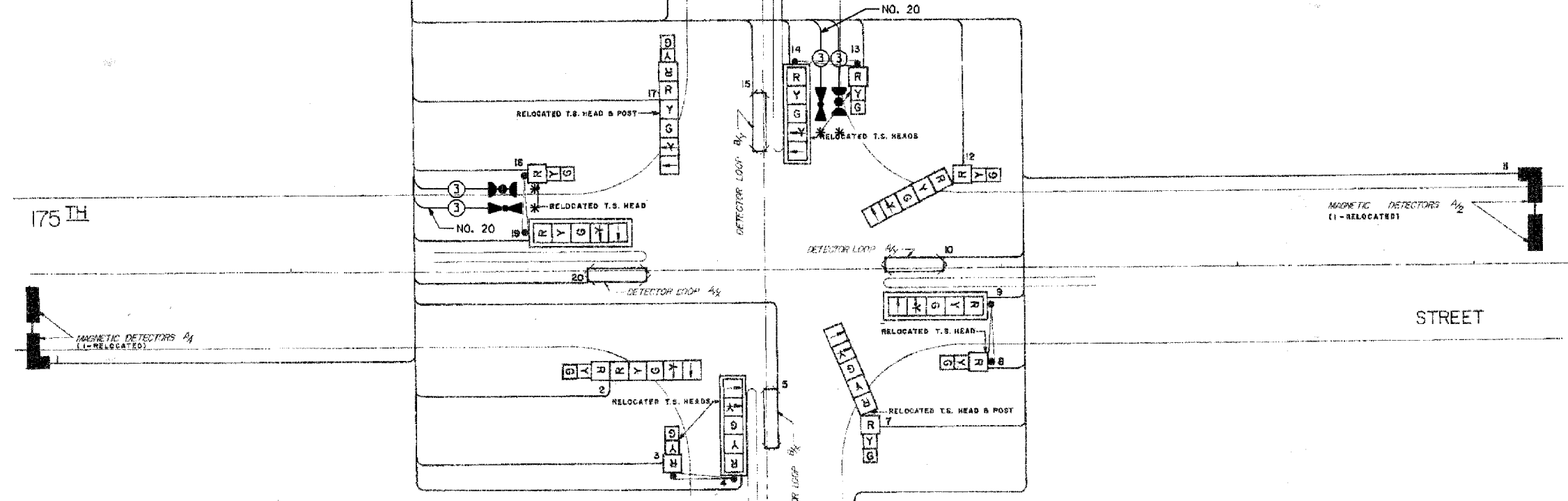
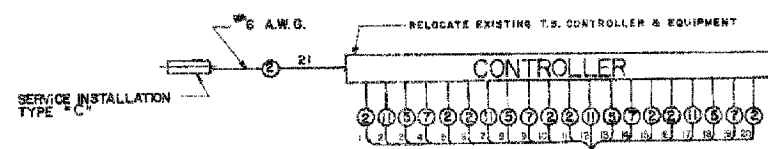
ILLINOIS DEPARTMENT OF TRANSPORTATION
PROPOSED EMERGENCY VEHICLE PREEMPTION PLAN
175TH STREET & KEDZIE AVENUE
HAZEL CREST, ILLINOIS
SCALE: VERT. N.T.S. HORIZ. N.T.S.
DRAWN BY SL
CHECKED BY CT

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-000146-00-TL	COOK		141
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
CONTRACT NO. 63003				

CABLE PLAN LEGEND	PROPOSED	EXISTING
TRAFFIC SIGNAL CONTROLLER		
EXISTING TRAFFIC SIGNAL CONTROLLER		
INTERSECTION & SAMPLING (SYSTEM) DETECTORS		
TRAFFIC SIGNAL CABLE NUMBER		
LOOP DETECTOR CABLE		
TRAFFIC SIGNAL DETAIL WALK SYMBOL		
TRAFFIC SIGNAL DETAIL BACKPLATE		
TRAFFIC SIGNAL DETAIL LEFT TURN GREEN		
TRAFFIC SIGNAL DETAIL LEFT TURN YELLOW		
TRAFFIC SIGNAL DETAIL WALK DW LETTERS		
TRAFFIC SIGNAL PRIORITY VEHICLE DETECTOR		
TRAFFIC SIGNAL CONFIRMATION BEACON		
TRAFFIC SIGNAL PEDESTRIAN PUSH BUTTON		
TELEPHONE CONNECTION		
GROUNDING SYSTEM CONNECTION		

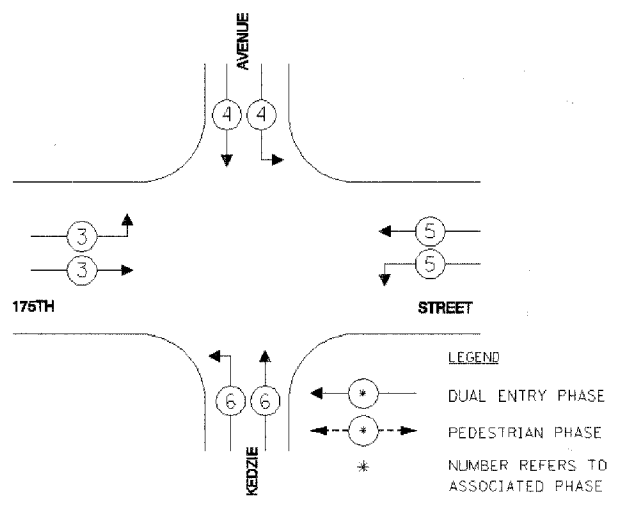
SCHEDULE OF QUANTITIES		
PAY ITEM	UNIT	QUANTITY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	250
LIGHT DETECTOR	EACH	2
LIGHT DETECTOR AMPLIFIER	EACH	1
ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED	FOOT	250

NOTE
 * THIS PLAN IS FOR THE PURPOSE OF INSTALLING EMERGENCY VEHICLE PREEMPTION EQUIPMENT AS SHOWN PER PLAN INDICATED IN THE SCHEDULE OF QUANTITIES. ALL OTHER EQUIPMENT SHOWN SHALL BE DISREGARDED.



PHASE	A ₁ /A ₁	A ₂ /A ₂	A ₃ /A ₃	A ₄ /A ₄	A ₅ /A ₅	A ₆ /A ₆	A ₇ /A ₇	A ₈ /A ₈	A ₉ /A ₉	A ₁₀ /A ₁₀	A ₁₁ /A ₁₁	A ₁₂ /A ₁₂	A ₁₃ /A ₁₃	A ₁₄ /A ₁₄	A ₁₅ /A ₁₅	A ₁₆ /A ₁₆	A ₁₇ /A ₁₇	A ₁₈ /A ₁₈	A ₁₉ /A ₁₉	A ₂₀ /A ₂₀	A ₂₁ /A ₂₁	A ₂₂ /A ₂₂	F	L	S
CHANGE TO	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	H		
INTERVAL	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	H		
175TH ST EAST BOUND NEAR & FAR RIGHT SIGNALS	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
175TH ST EAST BOUND WEST TURN & FAR LEFT SIGNALS	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
175TH ST WEST BOUND NEAR & FAR RIGHT SIGNALS	R	R	R	R	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
175TH ST WEST BOUND WEST TURN & FAR LEFT SIGNALS	R	R	R	R	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
KEDZIE AVENUE NORTH BOUND NEAR & FAR RIGHT SIGNALS	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
KEDZIE AVENUE NORTH BOUND WEST TURN & FAR LEFT SIGNALS	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
KEDZIE AVENUE SOUTH BOUND NEAR & FAR RIGHT SIGNALS	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
KEDZIE AVENUE SOUTH BOUND WEST TURN & FAR LEFT SIGNALS	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R

① THIS PHASE SHALL NOT TRANSFER TO A₁/A₁
 ② THIS PHASE SHALL NOT TRANSFER TO A₂/A₂
 ③ THIS PHASE SHALL NOT TRANSFER TO A₃/A₃
 ④ THIS PHASE SHALL NOT TRANSFER TO A₄/A₄
 ⑤ THIS PHASE SHALL NOT TRANSFER TO A₅/A₅
 ⑥ THIS PHASE SHALL NOT TRANSFER TO A₆/A₆
 ⑦ THIS PHASE SHALL NOT TRANSFER TO A₇/A₇
 ⑧ THIS PHASE SHALL NOT TRANSFER TO A₈/A₈
 ⑨ THIS PHASE SHALL NOT TRANSFER TO A₉/A₉
 ⑩ THIS PHASE SHALL NOT TRANSFER TO A₁₀/A₁₀
 ⑪ THIS PHASE SHALL NOT TRANSFER TO A₁₁/A₁₁
 ⑫ THIS PHASE SHALL NOT TRANSFER TO A₁₂/A₁₂
 ⑬ THIS PHASE SHALL NOT TRANSFER TO A₁₃/A₁₃
 ⑭ THIS PHASE SHALL NOT TRANSFER TO A₁₄/A₁₄
 ⑮ THIS PHASE SHALL NOT TRANSFER TO A₁₅/A₁₅
 ⑯ THIS PHASE SHALL NOT TRANSFER TO A₁₆/A₁₆
 ⑰ THIS PHASE SHALL NOT TRANSFER TO A₁₇/A₁₇
 ⑱ THIS PHASE SHALL NOT TRANSFER TO A₁₈/A₁₈
 ⑲ THIS PHASE SHALL NOT TRANSFER TO A₁₉/A₁₉
 ⑳ THIS PHASE SHALL NOT TRANSFER TO A₂₀/A₂₀
 ㉑ THIS PHASE SHALL NOT TRANSFER TO A₂₁/A₂₁
 ㉒ THIS PHASE SHALL NOT TRANSFER TO A₂₂/A₂₂



EMERGENCY VEHICLE PREEMPTION SEQUENCE

PROPOSED PRIORITY LANES				
PRIORITY LANE INTERVAL	1	2	3	4
MOVEMENT				

Globetrotters
 Engineering Corporation
 ENGINEERS ARCHITECTS
 300 South Wacker Drive
 Chicago, Illinois 60606

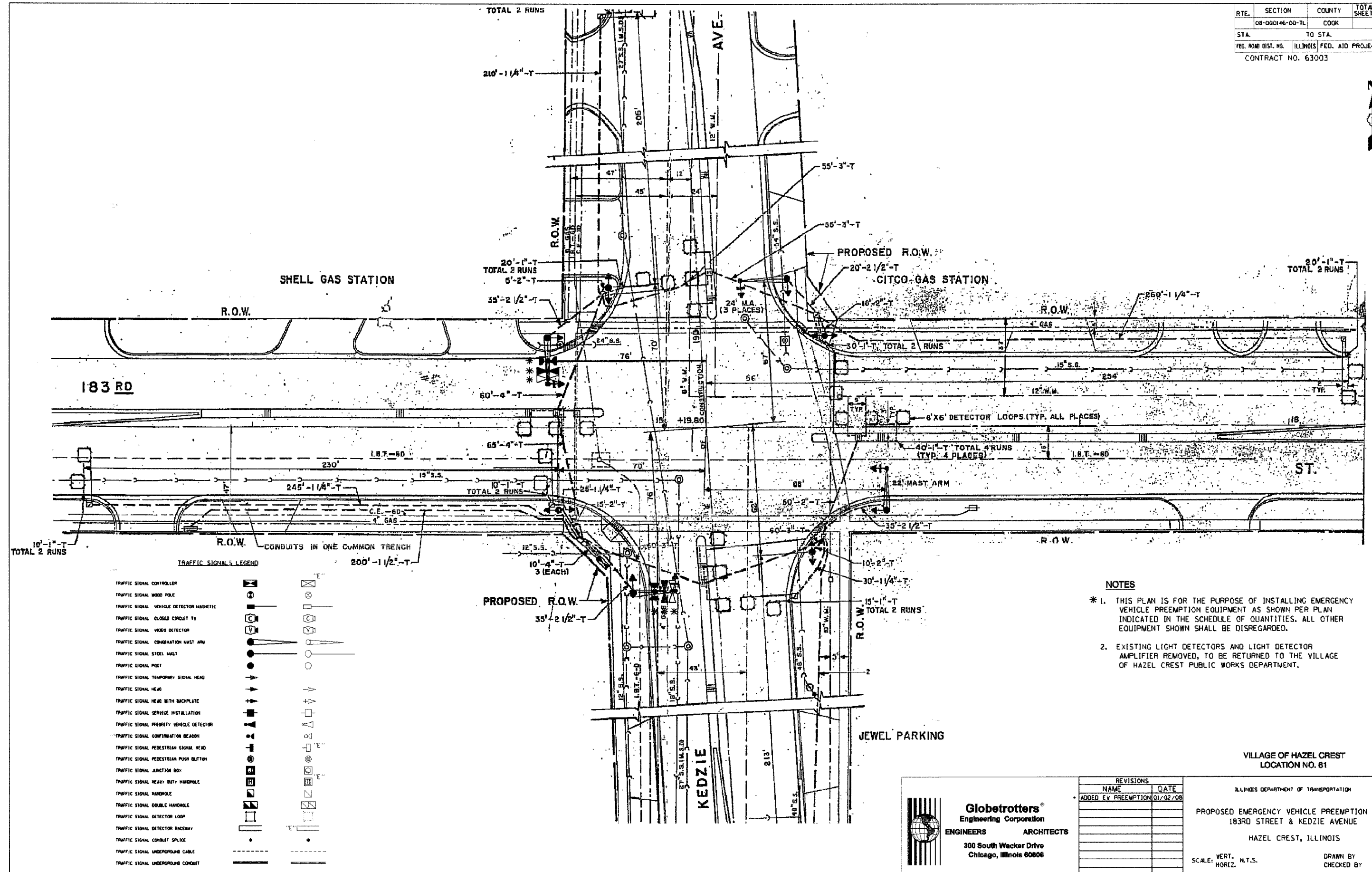
REVISIONS	
NAME	DATE
ADDED EV PREEMPTION	01/02/08

VILLAGE OF HAZEL CREST
 LOCATION NO. 60

ILLINOIS DEPARTMENT OF TRANSPORTATION
 PROPOSED EMERGENCY VEHICLE PREEMPTION
 CABLE PLAN, PHASE DESIGNATION DIAGRAM &
 SCHEDULE OF QUANTITIES
 175TH STREET & KEDZIE AVENUE
 HAZEL CREST, ILLINOIS

SCALE: VERT. N.T.S. DRAWN BY SL
 HORIZ. N.T.S. CHECKED BY CT

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-000146-00-TL	COOK		142
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 63003				



TRAFFIC SIGNALS LEGEND

- TRAFFIC SIGNAL CONTROLLER
- TRAFFIC SIGNAL WOOD POLE
- TRAFFIC SIGNAL VEHICLE DETECTOR MAGNETIC
- TRAFFIC SIGNAL CLOSED CIRCUIT TV
- TRAFFIC SIGNAL VIDEO DETECTOR
- TRAFFIC SIGNAL COMBINATION MAST ARM
- TRAFFIC SIGNAL STEEL MAST
- TRAFFIC SIGNAL POST
- TRAFFIC SIGNAL TEMPORARY SIGNAL HEAD
- TRAFFIC SIGNAL HEAD
- TRAFFIC SIGNAL HEAD WITH BACKPLATE
- TRAFFIC SIGNAL SERVICE INSTALLATION
- TRAFFIC SIGNAL PRIORITY VEHICLE DETECTOR
- TRAFFIC SIGNAL CONFIRMATION BEACON
- TRAFFIC SIGNAL PEDESTRIAN SIGNAL HEAD
- TRAFFIC SIGNAL PEDESTRIAN PUSH BUTTON
- TRAFFIC SIGNAL JUNCTION BOX
- TRAFFIC SIGNAL HEAVY DUTY HANDBOLE
- TRAFFIC SIGNAL HANDBOLE
- TRAFFIC SIGNAL DOUBLE HANDBOLE
- TRAFFIC SIGNAL DETECTOR LOOP
- TRAFFIC SIGNAL DETECTOR RACEWAY
- TRAFFIC SIGNAL CONDUIT SPLICE
- TRAFFIC SIGNAL UNDERGROUND CABLE
- TRAFFIC SIGNAL UNDERGROUND CONDUIT

NOTES

- * 1. THIS PLAN IS FOR THE PURPOSE OF INSTALLING EMERGENCY VEHICLE PREEMPTION EQUIPMENT AS SHOWN PER PLAN INDICATED IN THE SCHEDULE OF QUANTITIES. ALL OTHER EQUIPMENT SHOWN SHALL BE DISREGARDED.
- 2. EXISTING LIGHT DETECTORS AND LIGHT DETECTOR AMPLIFIER REMOVED, TO BE RETURNED TO THE VILLAGE OF HAZEL CREST PUBLIC WORKS DEPARTMENT.

VILLAGE OF HAZEL CREST
LOCATION NO. 61



Globetrotters[®]
Engineering Corporation
ENGINEERS ARCHITECTS
300 South Wacker Drive
Chicago, Illinois 60606

REVISIONS	
NAME	DATE
ADDED EV PREEMPTION	01/02/08

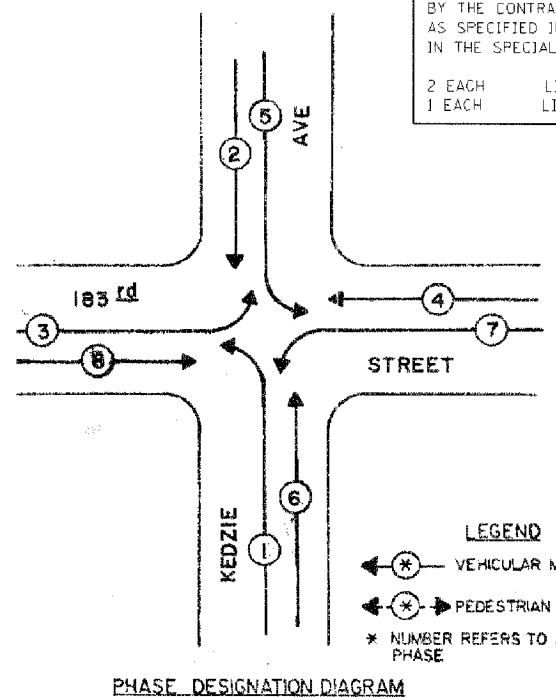
ILLINOIS DEPARTMENT OF TRANSPORTATION
PROPOSED EMERGENCY VEHICLE PREEMPTION PLAN
183RD STREET & KEDZIE AVENUE
HAZEL CREST, ILLINOIS
SCALE: VERT. N.T.S. DRAWN BY SL
 HORIZ. CHECKED BY CT

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-000146-00-TL	COOK		143
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 63003				

CONTROLLER SEQUENCE IV
 REFERRING TO STANDARD 2393, THE VEHICULAR AND PEDESTRIAN PHASES USED ARE DESIGNATED BELOW.

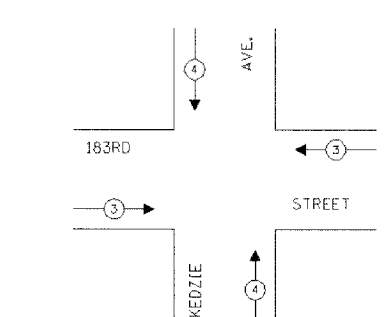
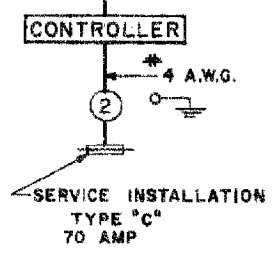
THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SHALL REMAIN THE PROPERTY OF THE STATE OR MUNICIPALITY AS SPECIFIED IN THE SPECIAL PROVISION, AND SHALL BE STORED AS STATED IN THE SPECIAL PROVISION FOR PICK UP BY STATE OR MUNICIPALITY FORCES:

2 EACH LIGHT DETECTOR
 1 EACH LIGHT DETECTOR AMPLIFIER

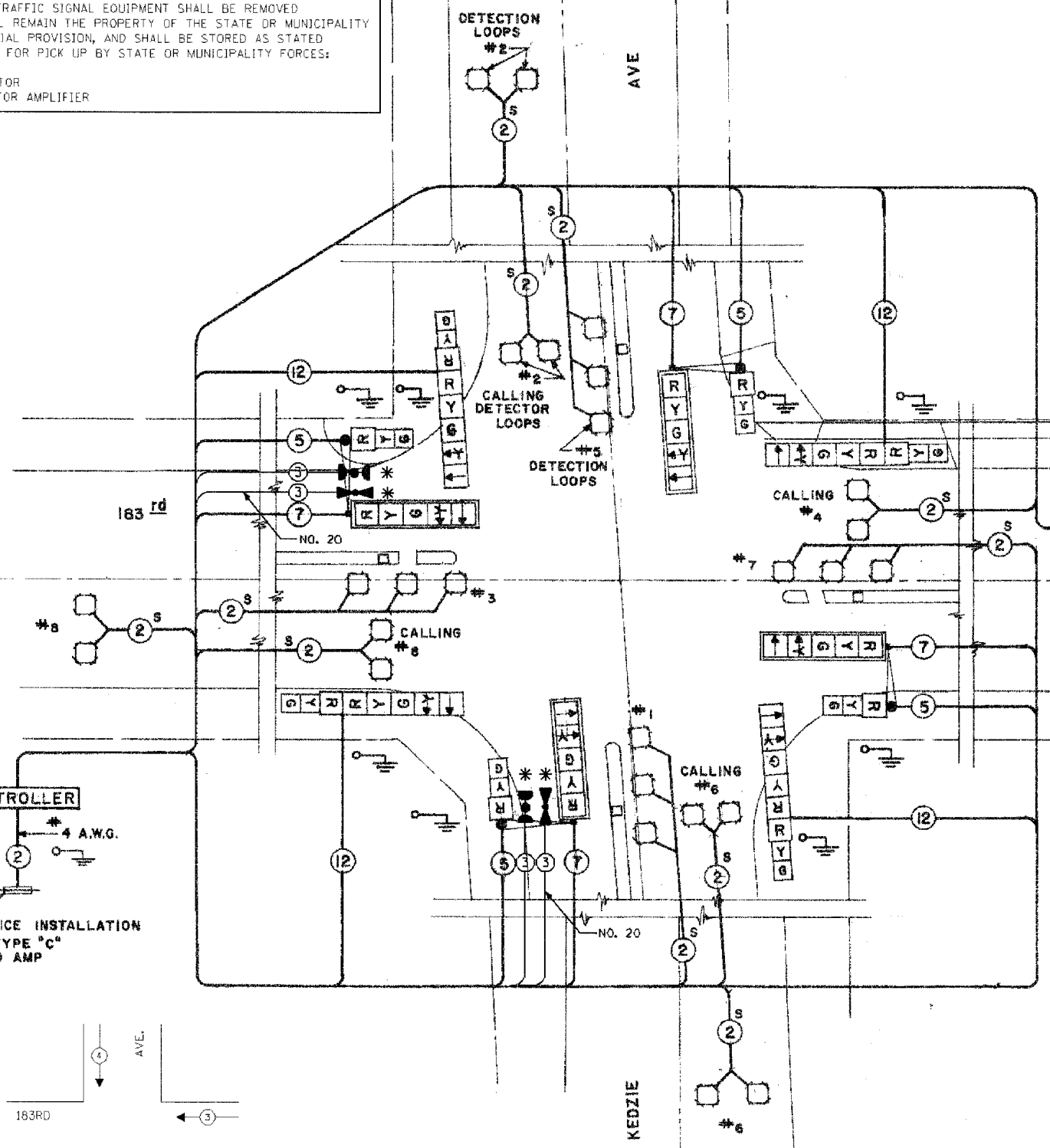


LEGEND

← * → VEHICULAR MOVEMENT
 ← * → PEDESTRIAN MOVEMENT
 * NUMBER REFERS TO ASSOCIATED PHASE



PROPOSED EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	→	↑



CABLE PLAN LEGEND

	PROPOSED	EXISTING
TRAFFIC SIGNAL CONTROLLER		
EXISTING TRAFFIC SIGNAL CONTROLLER		
INTERSECTION & SAMPLING (SYSTEM) DETECTORS		
TRAFFIC SIGNAL CABLE NUMBER		
LOOP DETECTOR CABLE		
TRAFFIC SIGNAL DETAIL WALK SYMBOL		
TRAFFIC SIGNAL DETAIL BACKPLATE		
TRAFFIC SIGNAL DETAIL LEFT TURN GREEN		
TRAFFIC SIGNAL DETAIL LEFT TURN YELLOW		
TRAFFIC SIGNAL DETAIL WALK DW LETTERS		
TRAFFIC SIGNAL PRIORITY VEHICLE DETECTOR		
TRAFFIC SIGNAL CONFIRMATION BEACON		
TRAFFIC SIGNAL PEDESTRIAN PUSH BUTTON		
TELEPHONE CONNECTION		
GROUNDING SYSTEM CONNECTION		

SCHEDULE OF QUANTITIES

PAY ITEM	UNIT	QUANTITY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	300
LIGHT DETECTOR	EACH	3
LIGHT DETECTOR AMPLIFIER	EACH	1
ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED	FOOT	300
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	300

- NOTES**
- * 1. THIS PLAN IS FOR THE PURPOSE OF INSTALLING EMERGENCY VEHICLE PREEMPTION EQUIPMENT AS SHOWN PER PLAN INDICATED IN THE SCHEDULE OF QUANTITIES. ALL OTHER EQUIPMENT SHOWN SHALL BE DISREGARDED.
 - * 2. EXISTING LIGHT DETECTORS AND LIGHT DETECTOR AMPLIFIER REMOVED, TO BE RETURNED TO THE VILLAGE OF HAZEL CREST PUBLIC WORKS DEPARTMENT.

VILLAGE OF HAZEL CREST
 LOCATION NO. 81

Globetrotters®
 Engineering Corporation
 ENGINEERS ARCHITECTS
 300 South Wacker Drive
 Chicago, Illinois 60606

REVISIONS

NAME	DATE
ADDED EV PREEMPTION	01/02/08

ILLINOIS DEPARTMENT OF TRANSPORTATION
 PROPOSED EMERGENCY VEHICLE PREEMPTION
 CABLE PLAN, PHASE DESIGNATION DIAGRAM &
 SCHEDULE OF QUANTITIES
 183RD STREET & KEDZIE AVENUE
 HAZEL CREST, ILLINOIS

SCALE: VERT. N.T.S. HORIZ. N.T.S.
 DRAWN BY SL
 CHECKED BY CT

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-000146-00-TL	COOK		144
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 63003				

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SHALL REMAIN THE PROPERTY OF THE STATE OR MUNICIPALITY AS SPECIFIED IN THE SPECIAL PROVISION, AND SHALL BE STORED AS STATED IN THE SPECIAL PROVISION FOR PICK UP BY STATE OR MUNICIPALITY FORCES:

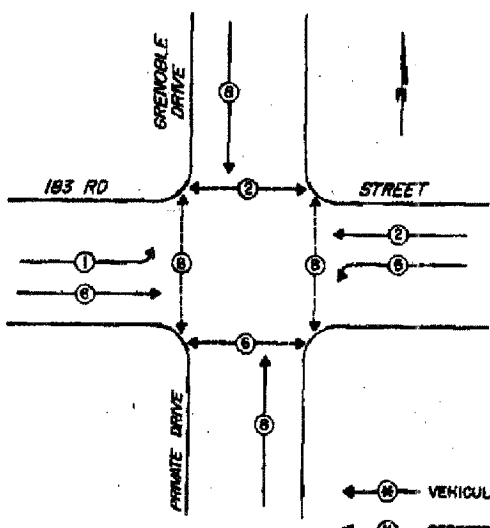
2 EACH LIGHT DETECTOR
1 EACH LIGHT DETECTOR AMPLIFIER



TRAFFIC SIGNALS LEGEND

- TRAFFIC SIGNAL CONTROLLER
- TRAFFIC SIGNAL WOOD POLE
- TRAFFIC SIGNAL VEHICLE DETECTOR MAGNETIC
- TRAFFIC SIGNAL CLOSED CIRCUIT TV
- TRAFFIC SIGNAL VIDEO DETECTOR
- TRAFFIC SIGNAL COMBINATION MAST ARM
- TRAFFIC SIGNAL STEEL MAST
- TRAFFIC SIGNAL POST
- TRAFFIC SIGNAL TEMPORARY SIGNAL HEAD
- TRAFFIC SIGNAL HEAD
- TRAFFIC SIGNAL HEAD WITH BACKPLATE
- TRAFFIC SIGNAL SERVICE INSTALLATION
- TRAFFIC SIGNAL PRIORITY VEHICLE DETECTOR
- TRAFFIC SIGNAL CONFIRMATION BEACON
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- TRAFFIC SIGNAL HANDHOLE
- TRAFFIC SIGNAL DOUBLE HANDHOLE
- TRAFFIC SIGNAL DETECTOR LOOP
- TRAFFIC SIGNAL DETECTOR RACEWAY
- TRAFFIC SIGNAL CONDUIT SPLICE
- TRAFFIC SIGNAL UNDERGROUND CABLE
- TRAFFIC SIGNAL UNDERGROUND CONDUIT

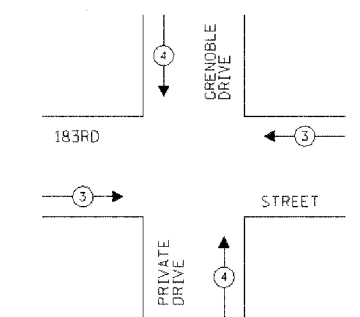
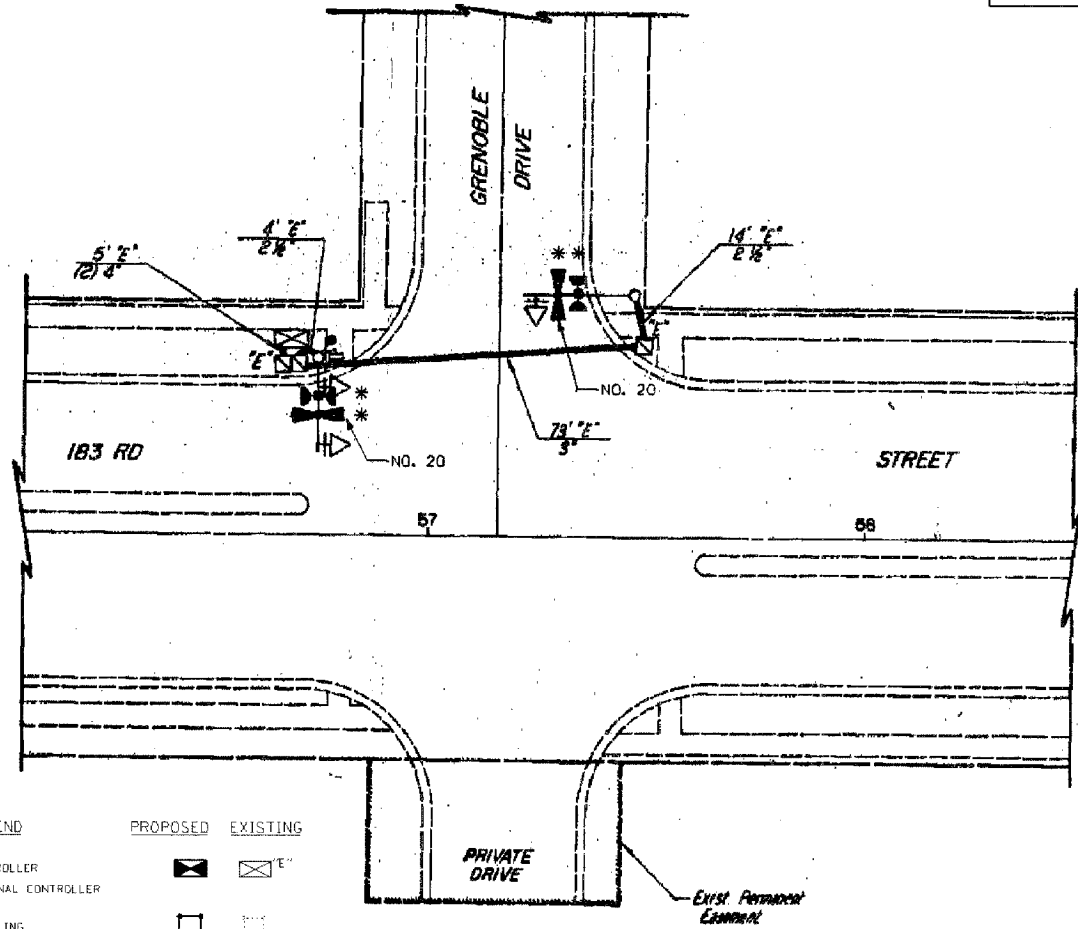
CONTROLLER SEQUENCE III
REFERRING TO STANDARD 2393, THE VEHICULAR AND PEDESTRIAN PHASES USED ARE DESIGNATED BELOW.



PHASE DESIGNATION DIAGRAM

CABLE PLAN LEGEND

- TRAFFIC SIGNAL CONTROLLER
- EXISTING TRAFFIC SIGNAL CONTROLLER
- INTERSECTION & SAMPLING (SYSTEM) DETECTORS
- TRAFFIC SIGNAL CABLE NUMBER
- LOOP DETECTOR CABLE
- TRAFFIC SIGNAL DETAIL WALK SYMBOL
- TRAFFIC SIGNAL DETAIL BACKPLATE
- TRAFFIC SIGNAL DETAIL LEFT TURN GREEN
- TRAFFIC SIGNAL DETAIL LEFT TURN YELLOW
- TRAFFIC SIGNAL DETAIL WALK ON LETTERS
- TRAFFIC SIGNAL PRIORITY VEHICLE DETECTOR
- TRAFFIC SIGNAL CONFIRMATION BEACON
- TRAFFIC SIGNAL PEDESTRIAN PUSH BUTTON
- TELEPHONE CONNECTION
- GROUNDING SYSTEM CONNECTION



EMERGENCY VEHICLE PREEMPTION SEQUENCE

PROPOSED EMERGENCY VEHICLE PREEMPTORS	
EMERGENCY VEHICLE PREEMPTOR	3 4
MOVEMENT	→ ↑

SCHEDULE OF QUANTITIES		
PAY ITEM	UNIT	QUANTITY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	210
LIGHT DETECTOR	EACH	3
LIGHT DETECTOR AMPLIFIER	EACH	1
ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED	FOOT	210
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	210

- NOTES**
- THIS PLAN IS FOR THE PURPOSE OF INSTALLING EMERGENCY VEHICLE PREEMPTION EQUIPMENT AS SHOWN PER PLAN INDICATED IN THE SCHEDULE OF QUANTITIES. ALL OTHER EQUIPMENT SHOWN SHALL BE DISREGARDED.
 - EXISTING LIGHT DETECTORS AND LIGHT DETECTOR AMPLIFIER REMOVED, TO BE RETURNED TO THE VILLAGE OF HAZEL CREST PUBLIC WORKS DEPARTMENT.

VILLAGE OF HAZEL CREST
LOCATION NO. 82

Globetrotters
Engineering Corporation
ENGINEERS ARCHITECTS
300 South Wacker Drive
Chicago, Illinois 60606

REVISIONS	
NAME	DATE
ADDED EV PREEMPTION	01/02/08

ILLINOIS DEPARTMENT OF TRANSPORTATION
PROPOSED EMERGENCY VEHICLE PREEMPTION
CABLE PLAN, PHASE DESIGNATION DIAGRAM &
SCHEDULE OF QUANTITIES
183RD STREET & GRENABLE DRIVE
HAZEL CREST, ILLINOIS

SCALE: VERT. N.T.S. HORIZ. N.T.S.
DRAWN BY SL
CHECKED BY CT

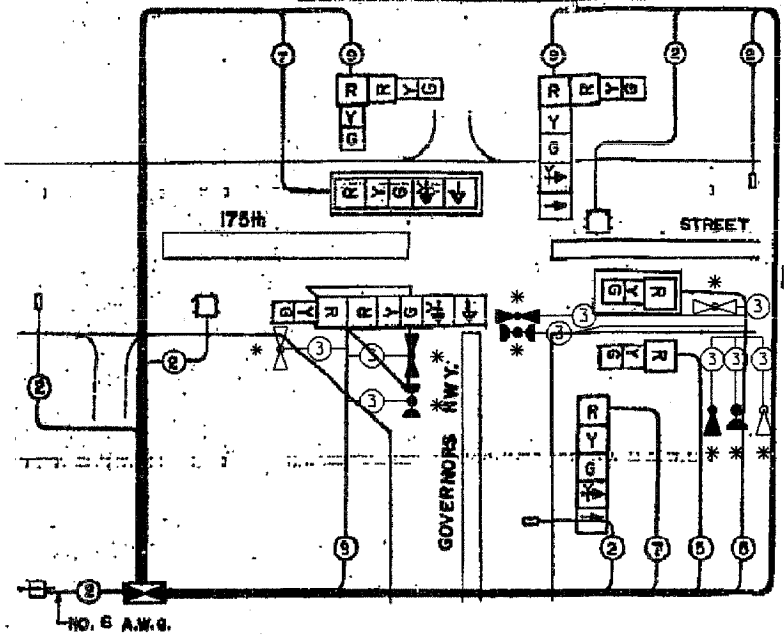
TRAFFIC SIGNALS LEGEND

TRAFFIC SIGNAL CONTROLLER	
TRAFFIC SIGNAL WOOD POLE	
TRAFFIC SIGNAL VEHICLE DETECTOR MAGNETIC	
TRAFFIC SIGNAL CLOSED CIRCUIT TV	
TRAFFIC SIGNAL VIDEO DETECTOR	
TRAFFIC SIGNAL COMBINATION MAST W/M	
TRAFFIC SIGNAL STEEL MAST	
TRAFFIC SIGNAL POST	
TRAFFIC SIGNAL TEMPORARY SIGNAL HEAD	
TRAFFIC SIGNAL HEAD	
TRAFFIC SIGNAL HEAD WITH BACKPLATE	
TRAFFIC SIGNAL SERVICE INSTALLATION	
TRAFFIC SIGNAL PRIORITY VEHICLE DETECTOR	
TRAFFIC SIGNAL CONFIRMATION BEACON	
TRAFFIC SIGNAL PEDESTRIAN SIGNAL HEAD	
TRAFFIC SIGNAL PEDESTRIAN PUSH BUTTON	
TRAFFIC SIGNAL JUNCTION BOX	
TRAFFIC SIGNAL HEAVY DUTY HANDHOLE	
TRAFFIC SIGNAL HANDHOLE	
TRAFFIC SIGNAL DOUBLE HANDHOLE	
TRAFFIC SIGNAL DETECTOR LOOP	
TRAFFIC SIGNAL DETECTOR RACEWAY	
TRAFFIC SIGNAL CONDUIT SPLICE	
TRAFFIC SIGNAL UNDERGROUND CABLE	
TRAFFIC SIGNAL UNDERGROUND CONDUIT	

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SHALL REMAIN THE PROPERTY OF THE STATE OR MUNICIPALITY AS SPECIFIED IN THE SPECIAL PROVISION, AND SHALL BE STORED AS STATED IN THE SPECIAL PROVISION FOR PICK UP BY STATE OR MUNICIPALITY FORCES:

3 EACH LIGHT DETECTOR
1 EACH LIGHT DETECTOR AMPLIFIER

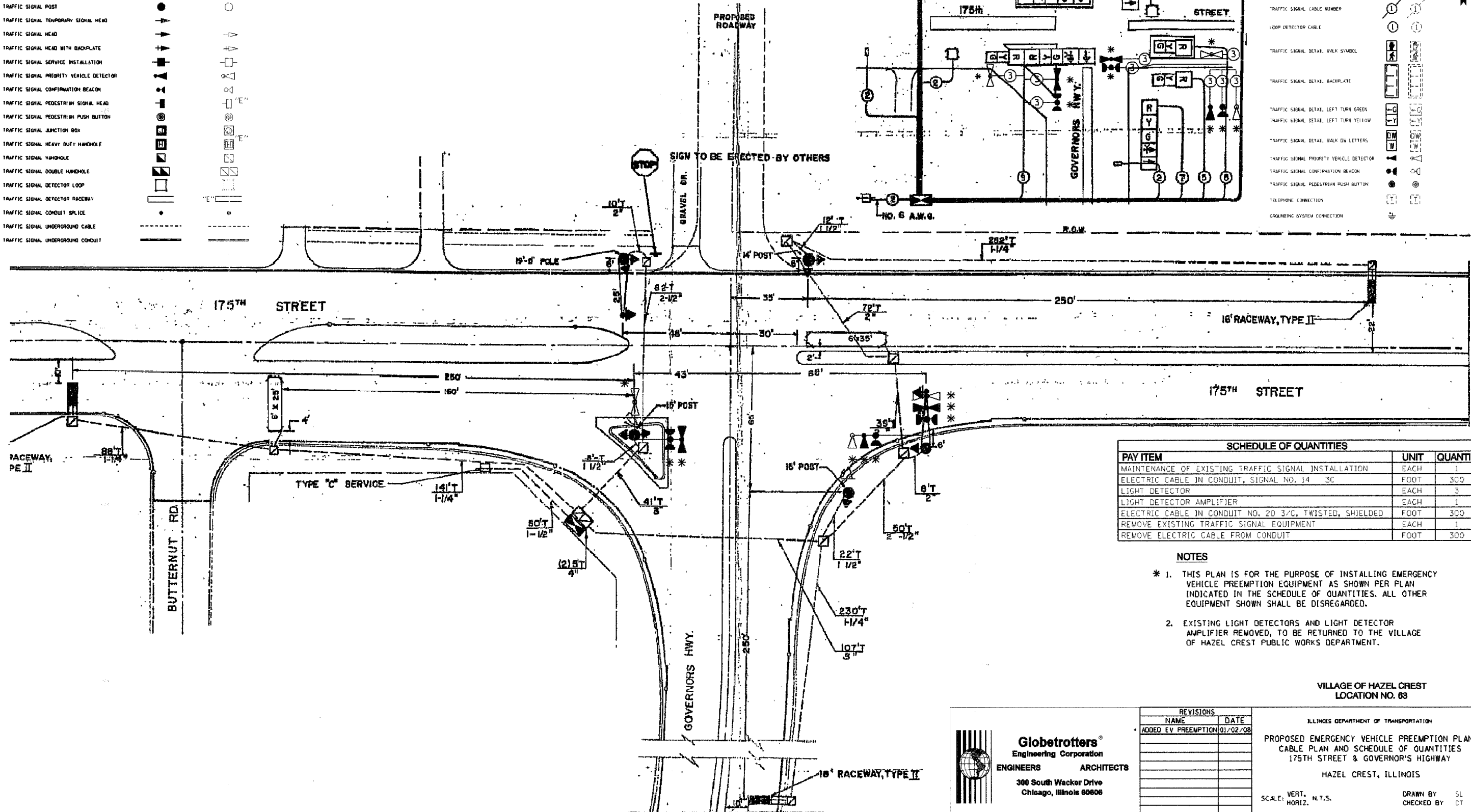
SCHEMATIC DIAGRAM



RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-000146-00-TL	COOK		145
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 63003				

CABLE PLAN LEGEND

TRAFFIC SIGNAL CONTROLLER		PROPOSED
EXISTING TRAFFIC SIGNAL CONTROLLER		EXISTING
INTERSECTION & SAMPLING SYSTEM DETECTORS		PROPOSED
TRAFFIC SIGNAL CABLE NUMBER		PROPOSED
LOOP DETECTOR CABLE		PROPOSED
TRAFFIC SIGNAL DETAIL WALK SYMBOL		PROPOSED
TRAFFIC SIGNAL DETAIL BACKPLATE		PROPOSED
TRAFFIC SIGNAL DETAIL LEFT TURN GREEN		PROPOSED
TRAFFIC SIGNAL DETAIL LEFT TURN YELLOW		PROPOSED
TRAFFIC SIGNAL DETAIL WALK ON LETTERS		PROPOSED
TRAFFIC SIGNAL PRIORITY VEHICLE DETECTOR		PROPOSED
TRAFFIC SIGNAL CONFIRMATION BEACON		PROPOSED
TRAFFIC SIGNAL PEDESTRIAN PUSH BUTTON		PROPOSED
TELEPHONE CONNECTION		PROPOSED
GROUNDING SYSTEM CONNECTION		PROPOSED



SCHEDULE OF QUANTITIES

PAY ITEM	UNIT	QUANTITY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	300
LIGHT DETECTOR	EACH	3
LIGHT DETECTOR AMPLIFIER	EACH	1
ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED	FOOT	300
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	300

- NOTES**
- THIS PLAN IS FOR THE PURPOSE OF INSTALLING EMERGENCY VEHICLE PREEMPTION EQUIPMENT AS SHOWN PER PLAN INDICATED IN THE SCHEDULE OF QUANTITIES. ALL OTHER EQUIPMENT SHOWN SHALL BE DISREGARDED.
 - EXISTING LIGHT DETECTORS AND LIGHT DETECTOR AMPLIFIER REMOVED, TO BE RETURNED TO THE VILLAGE OF HAZEL CREST PUBLIC WORKS DEPARTMENT.

VILLAGE OF HAZEL CREST
LOCATION NO. 83

Globetrotters®
Engineering Corporation
ENGINEERS ARCHITECTS
300 South Wacker Drive
Chicago, Illinois 60606

REVISIONS	
NAME	DATE
ADDED EV PREEMPTION	01/02/08

ILLINOIS DEPARTMENT OF TRANSPORTATION
PROPOSED EMERGENCY VEHICLE PREEMPTION PLAN,
CABLE PLAN AND SCHEDULE OF QUANTITIES
175TH STREET & GOVERNOR'S HIGHWAY
HAZEL CREST, ILLINOIS

SCALE: VERT. N.T.S. DRAWN BY SL
HORIZ. N.T.S. CHECKED BY CT

NORMAL SEQUENCE OF OPERATIONS

PHASE	1+6		2+6		4+8		FLASH					
	MOVEMENT		MOVEMENT		MOVEMENT							
INTERVAL	1	2	3A	3B	4	5A	5B	6	7A	7B	8A	8B
CHANGE TO	2+6		4+8		4+8		1+6		2+6			
NB GOVERNORS HIGHWAY NEAR RIGHT AND FAR RIGHT SIGNALS	R	R	R	R	R	R	R	G	Y	R	Y	R
NB GOVERNORS HIGHWAY FAR LEFT SIGNAL	R	R	R	R	R	R	R	G	Y	R	Y	R
WB 175 TH STREET NEAR RIGHT AND FAR RIGHT SIGNALS	G	G	Y	R	G	Y	R	R	R	R	R	R
WB 175 TH STREET MASTARM AND FAR LEFT SIGNALS	G	G	Y	R	G	Y	R	R	R	R	R	R
EB 175 TH STREET ALL SIGNALS	R	R	R	R	G	Y	R	R	R	R	R	R
SB ROADWAY ALL SIGNALS	R	R	R	R	R	R	R	G	Y	R	Y	R


PHASE 2+6 SHALL NOT CLEAR TO PHASE 1+6

EMERGENCY VEHICLE PRE-EMPTION SEQUENCE

FROM NORMAL SEQUENCE OF OPERATIONS INTERNAL NUMBER	1			4			8			EV ₁		EV ₂		CLEAR TO NORMAL SEQUENCE
MOVEMENT	MOVEMENT			MOVEMENT			MOVEMENT			MOVEMENT		MOVEMENT		
EMERGENCY VEHICLE PREEMPTION INTERVAL	IA	IB	IC	ID	IE	IF	IG	IH	IJ					
CHANGE TO	EV ₁	IC	EV ₂	EV ₁	IF	EV ₂	IH	EV ₁	EV ₂	EV ₁			EV ₂	
NB GOVERNORS HIGHWAY NEAR RIGHT AND FAR RIGHT SIGNALS	R	R	R	R	R	R	Y	R	G	R			G	◇
NB GOVERNORS HIGHWAY FAR LEFT SIGNAL	R	R	R	R	R	R	Y	R	G	R			G	◇
WB 175 TH STREET NEAR RIGHT AND FAR RIGHT SIGNALS	G	Y	R	G	Y	R	R	R	R	G			R	◇
WB 175 TH STREET MASTARM AND FAR LEFT SIGNALS	G	Y	R	G	Y	R	R	R	R	G			R	◇
EB 175 TH STREET ALL SIGNALS	R	R	R	G	Y	R	R	R	R	G			R	◇
SB ROADWAY ALL SIGNALS	R	R	R	R	R	R	Y	R	G	R			G	◇

◇ EMERGENCY VEHICLE SEQUENCE SHALL PROVIDE PROPER CLEARANCE INTERVAL TO RESUME THE NORMAL SEQUENCE OF OPERATION OR PROPER CLEARANCE INTERVAL TO DISPLAY A DIFFERENT EMERGENCY VEHICLE INTERVAL AFTER EMERGENCY VEHICLE INTERVAL EV₁ OR EV₂ IS TERMINATED

VILLAGE OF HAZEL CREST
LOCATION NO. 63

 Globetrotters Engineering Corporation ENGINEERS ARCHITECTS 300 South Wacker Drive Chicago, Illinois 60606	REVISIONS	
	NAME	DATE
	ADDED EV PREEMPTION	01/02/08

ILLINOIS DEPARTMENT OF TRANSPORTATION

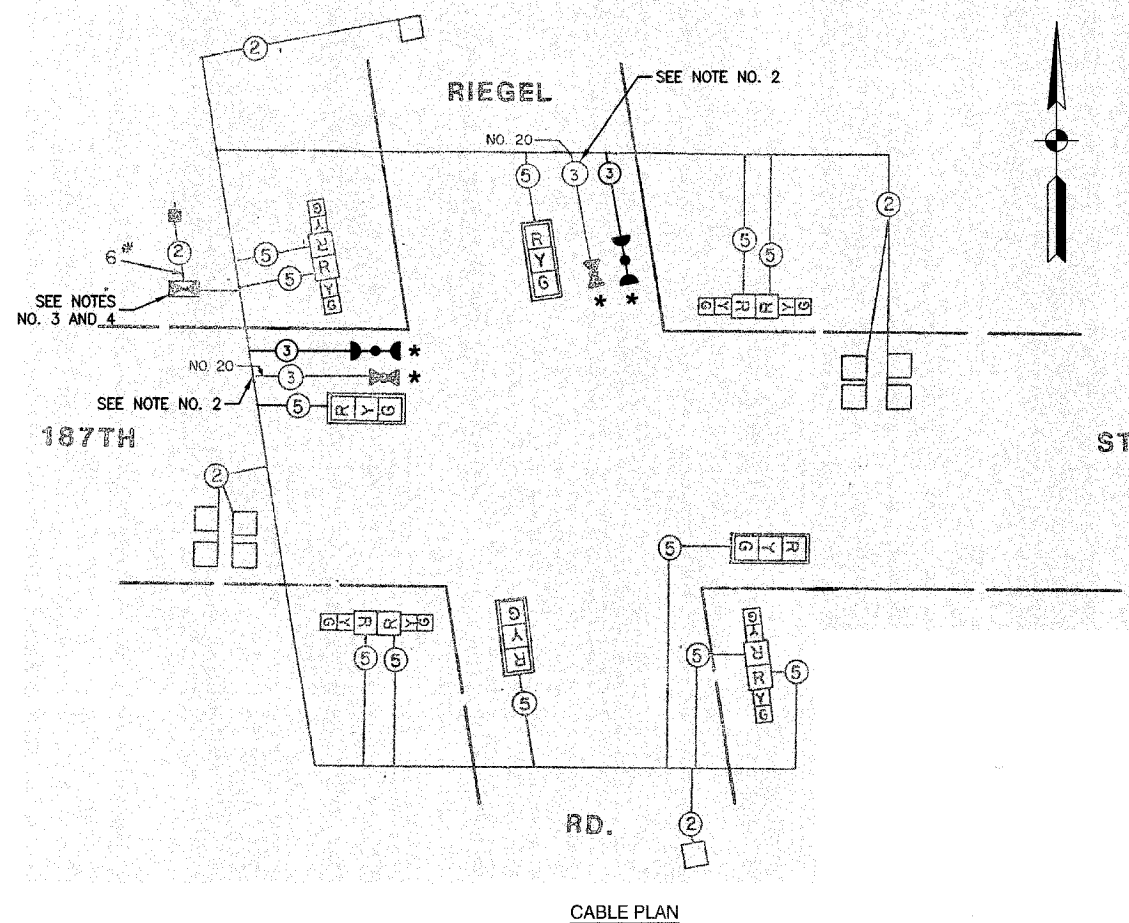
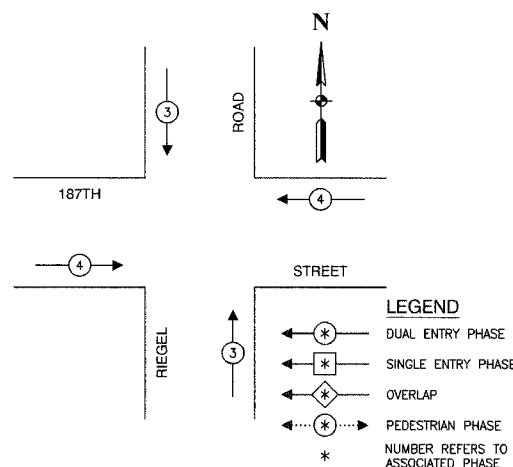
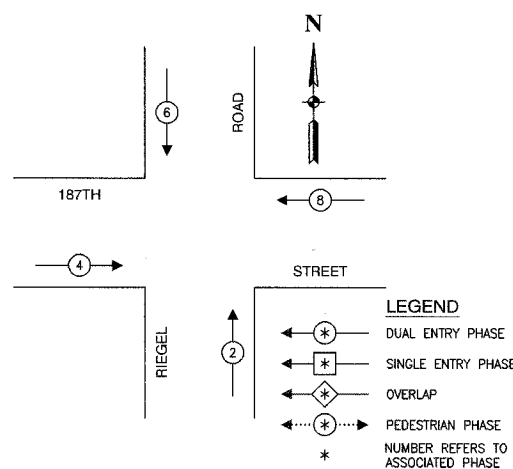
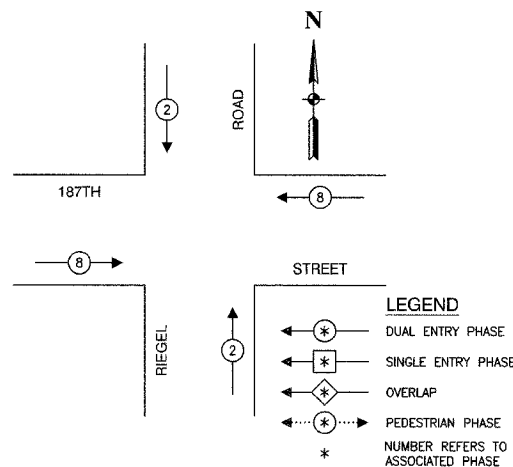
SEQUENCE OF OPERATIONS
175TH STREET & GOVERNOR'S HIGHWAY
HAZEL CREST, ILLINOIS

SCALE: VERT. N.T.S.
HORIZ. N.T.S.

DRAWN BY SL
CHECKED BY CT

F. A. SEC.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00146-00-TL	COOK	273	148
STA.		TO STA.		
FED. ROAD DIST. NO.	BLANKET	FED. AID PROJECT		

CONTRACT NO. 63003



CABLE PLAN LEGEND

EXISTING	PROPOSED	DESCRIPTION
(G)	(G)	8" TRAFFIC SIGNAL SECTION
(R)	(R)	12" TRAFFIC SIGNAL SECTION
(W)	(W)	12" PEDESTRIAN SIGNAL SECTION
(W)	(W)	12" PEDESTRIAN SIGNAL SECTION
(C)	(C)	CONTROLLER CABINET
(S)	(S)	SERVICE INSTALLATION
(T)	(T)	TELEPHONE CONNECTION
(M)	(M)	MAGNETIC DETECTOR
(E)	(E)	EMERGENCY VEHICLE LIGHT DETECTOR
(B)	(B)	CONFIRMATION BEACON
(P)	(P)	PUSHBUTTON DETECTOR
(V)	(V)	VEHICLE DETECTOR, INDUCTION LOOP
(2)	(2)	2 DENOTES NUMBER OF CONDUCTORS. ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED.
(S)	(S)	SIGNAL FACE WITH BACKPLATE
(P)	(P)	"P" INDICATES PROGRAMMED HEAD
(R)	(R)	RAILROAD CONTROL CABINET
(E)	(E)	ILLUMINATED SIGN, FIBER OPTIC "NO LEFT TURN"
(E)	(E)	ILLUMINATED SIGN, FIBER OPTIC "NO RIGHT TURN"
H/C	H/C	GROUND ROD AT HANDHOLE, DOUBLE HANDHOLE, OR CONTROLLER
P	P	GROUND ROD AT POST OR MAST ARM POLE
S	S	GROUND ROD AT ELECTRIC SERVICE INSTALLATION

SCHEDULE OF QUANTITIES

PAY ITEM	UNIT	QUANTITY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	223
INDUCTIVE LOOP DETECTOR	EACH	4
LIGHT DETECTOR	EACH	2
LIGHT DETECTOR AMPLIFIER	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1

- NOTES**
- THIS PLAN IS FOR THE PURPOSE OF INSTALLING EMERGENCY VEHICLE PREEMPTION EQUIPMENT AS SHOWN PER PLAN INDICATED IN THE SCHEDULE OF QUANTITIES. ALL OTHER EQUIPMENT SHOWN SHALL BE DISREGARDED.
 - THE EXISTING EMERGENCY VEHICLE LIGHT DETECTOR AND LIGHT DETECTOR AMPLIFIER SHALL BE REMOVED AND REPLACED WITH NEW EQUIPMENT. THE EXISTING EQUIPMENT SHALL BE RETURNED TO THE VILLAGE OF HOMEWOOD.
 - THE EXISTING TRAFFIC SIGNAL CONTROLLER SHALL BE REMOVED AND REPLACED ON EXISTING FOUNDATION. THE EXISTING TRAFFIC SIGNAL CONTROL EQUIPMENT SHALL BE RETURNED TO IDOT.
 - NEW LIGHT DETECTOR AMPLIFIER SHALL BE INSTALLED IN NEW CONTROLLER CABINET.

REVISIONS

NAME	DATE
ADDED EV PREEMPTION	01/02/08
ADDED NEW CONTROLLER AND CABINET	

VILLAGE OF HOMEWOOD
LOCATION NO. 64

ILLINOIS DEPARTMENT OF TRANSPORTATION

PROPOSED EMERGENCY VEHICLE PREEMPTION CABLE PLAN, PHASE DESIGNATION DIAGRAM & SCHEDULE OF QUANTITIES
187TH STREET & RIEGEL ROAD

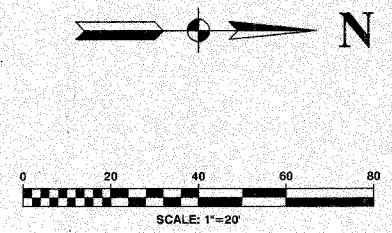
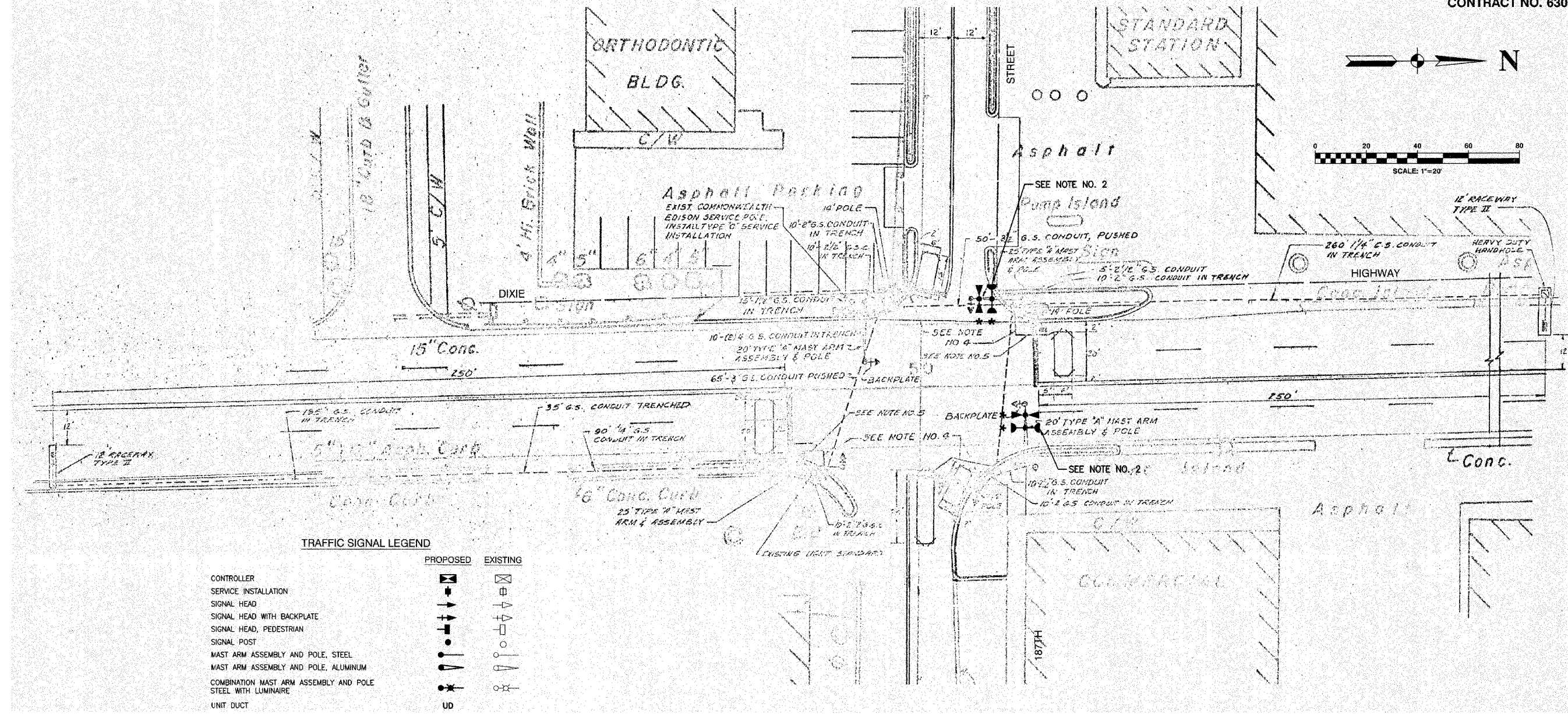
SCALE: VERT. _____
HORIZ. _____

DATE _____ DRAWN BY _____
CHECKED BY _____

ROBINSON ENGINEERING, LTD.
17000 SOUTH PARK AVENUE SOUTH HOLLAND, ILLINOIS 60468
TEL: (708) 251-4700 FAX: (708) 251-3900
ILLINOIS DESIGN FIRM REGISTRATION NO. 184001126

F. A. SHEET NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00146-00-TL	COOK	273	149
STA.	TO STA.			
FED. ROAD DIST. NO.	LANDS	FED. AID PROJECT		

CONTRACT NO. 63003



TRAFFIC SIGNAL LEGEND

	PROPOSED	EXISTING
CONTROLLER	[Symbol]	[Symbol]
SERVICE INSTALLATION	[Symbol]	[Symbol]
SIGNAL HEAD	[Symbol]	[Symbol]
SIGNAL HEAD WITH BACKPLATE	[Symbol]	[Symbol]
SIGNAL HEAD, PEDESTRIAN	[Symbol]	[Symbol]
SIGNAL POST	[Symbol]	[Symbol]
MAST ARM ASSEMBLY AND POLE, STEEL	[Symbol]	[Symbol]
MAST ARM ASSEMBLY AND POLE, ALUMINUM	[Symbol]	[Symbol]
COMBINATION MAST ARM ASSEMBLY AND POLE STEEL WITH LUMINAIRE	[Symbol]	[Symbol]
UNIT DUCT	[Symbol]	[Symbol]
COMMON TRENCH	[Symbol]	[Symbol]
HANDHOLE	[Symbol]	[Symbol]
HEAVY DUTY HANDHOLE	[Symbol]	[Symbol]
DOUBLE HANDHOLE	[Symbol]	[Symbol]
G.S. CONDUIT IN GROUND	[Symbol]	[Symbol]
PEDESTRIAN PUSHBUTTON DETECTOR	[Symbol]	[Symbol]
DETECTOR LOOP	[Symbol]	[Symbol]
CAST IRON JUNCTION BOX	[Symbol]	[Symbol]
EMERGENCY VEHICLE SYSTEM DETECTOR	[Symbol]	[Symbol]
CONFIRMATION BEACON	[Symbol]	[Symbol]
SIGNAL HEAD OPTICALLY PROGRAMMED	[Symbol]	[Symbol]
CONDUIT SPLICE	[Symbol]	[Symbol]
WOOD POLE	[Symbol]	[Symbol]
RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II	[Symbol]	[Symbol]
VEHICLE DETECTOR, NON COMPENSATED MAGNETIC TYPE	[Symbol]	[Symbol]
RAILROAD CONTROL CABINET	[Symbol]	[Symbol]
TELEPHONE CONNECTION	[Symbol]	[Symbol]
ILLUMINATED SIGN, FIBER OPTIC "NO LEFT TURN"	[Symbol]	[Symbol]
ILLUMINATED SIGN, FIBER OPTIC "NO RIGHT TURN"	[Symbol]	[Symbol]

NOTES

- THIS PLAN IS FOR THE PURPOSE OF INSTALLING EMERGENCY VEHICLE PREEMPTION EQUIPMENT AS SHOWN PER PLAN INDICATED IN THE SCHEDULE OF QUANTITIES. ALL OTHER EQUIPMENT SHOWN SHALL BE DISREGARDED.
- THE EXISTING EMERGENCY VEHICLE LIGHT DETECTOR AND LIGHT DETECTOR AMPLIFIER SHALL BE REMOVED AND REPLACED WITH NEW EQUIPMENT. THE EXISTING EQUIPMENT SHALL BE RETURNED TO THE VILLAGE OF HOMEWOOD.
- THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SHALL REMAIN THE PROPERTY OF IDOT, AND SHALL BE STORED AS STATED IN THE SPECIAL PROVISION FOR PICK UP BY THE IDOT FORCES AS DESIGNATED BY ENGINEER.

CONTROLLER	EACH	1
CONTROLLER CABINET	EACH	1

THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS INTERSECTION SHALL BE ECONOLITE TO MATCH EXISTING OR ADJACENT SYSTEM.

**VILLAGE OF HOMEWOOD
LOCATION NO. 65**

ILLINOIS DEPARTMENT OF TRANSPORTATION

**PROPOSED EMERGENCY VEHICLE PREEMPTION
187TH STREET AND DIXIE HIGHWAY**

* PLANS MODIFIED BY ROBINSON ENGINEERING, LTD.

REVISIONS	
NAME	DATE
ADDED EV PREEMPTION AND NEW CONTROLLER	01/02/08

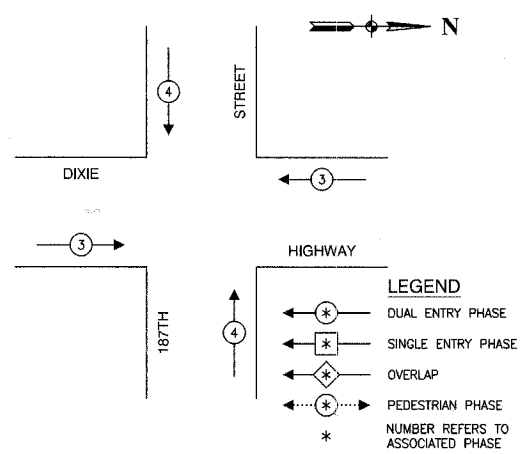
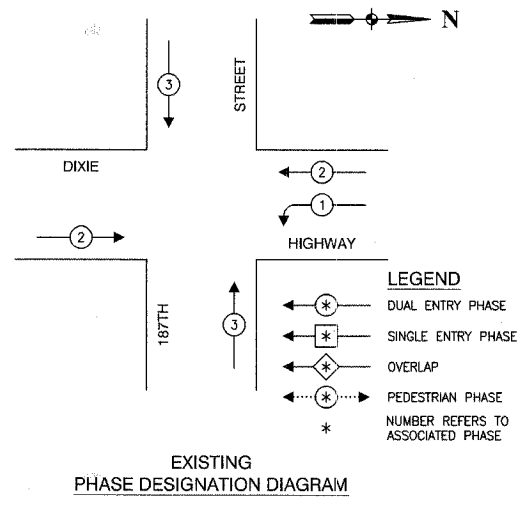
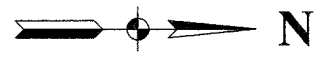
SCALE: VERT. _____
 HORIZ. _____
 DATE _____ DRAWN BY _____
 CHECKED BY _____

F. A. SHEET	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00146-00-TL	COOK	273	150
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

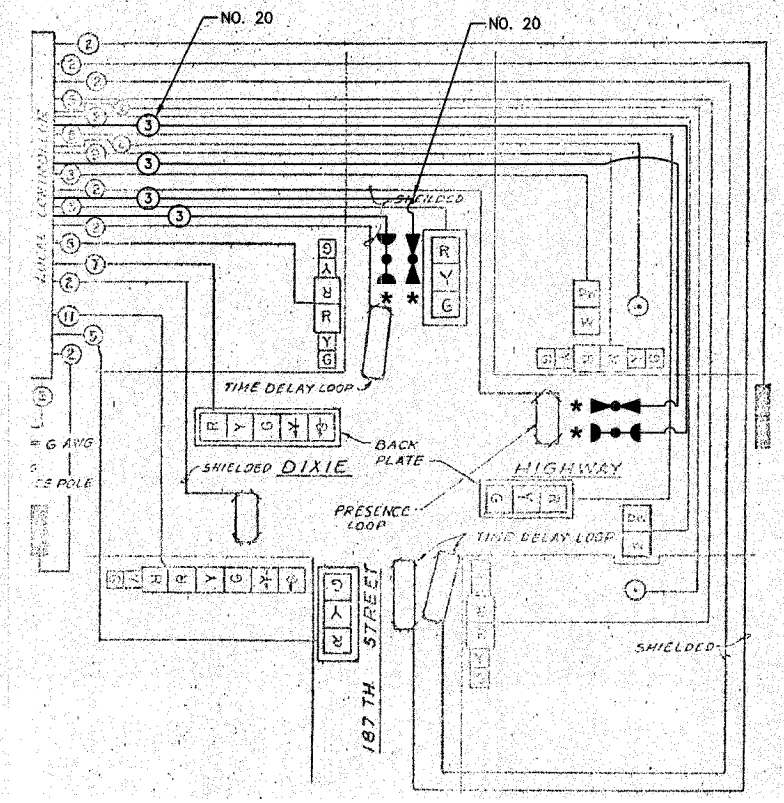
CONTRACT NO. 63003

CABLE PLAN LEGEND

EXISTING	PROPOSED	
		8" TRAFFIC SIGNAL SECTION
		12" TRAFFIC SIGNAL SECTION
		12" PEDESTRIAN SIGNAL SECTION
		12" PEDESTRIAN SIGNAL SECTION
		CONTROLLER CABINET
		SERVICE INSTALLATION
		TELEPHONE CONNECTION
		MAGNETIC DETECTOR
		EMERGENCY VEHICLE LIGHT DETECTOR
		CONFIRMATION BEACON
		PUSHBUTTON DETECTOR
		VEHICLE DETECTOR, INDUCTION LOOP
		DENOTES NUMBER OF CONDUCTORS. ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED.
		SIGNAL FACE WITH BACKPLATE
		"P" INDICATES PROGRAMMED HEAD
		RAILROAD CONTROL CABINET
		ILLUMINATED SIGN, FIBER OPTIC "NO LEFT TURN"
		ILLUMINATED SIGN, FIBER OPTIC "NO RIGHT TURN"
		GROUND ROD AT HANDHOLE, DOUBLE HANDHOLE, OR CONTROLLER
		GROUND ROD AT POST OR MAST ARM POLE
		GROUND ROD AT ELECTRIC SERVICE INSTALLATION



PROPOSED EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	← →	↑ ↓



SCHEDULE OF QUANTITIES		
PAY ITEM	UNIT	QUANTITY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
FULL-ACTUATED CONTROLLER IN EXISTING CABINET, SPECIAL	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	240
LIGHT DETECTOR	EACH	2
LIGHT DETECTOR AMPLIFIER	EACH	1
MODIFY EXISTING CONTROLLER	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1

- NOTES**
- THIS PLAN IS FOR THE PURPOSE OF INSTALLING EMERGENCY VEHICLE PREEMPTION EQUIPMENT AS SHOWN PER PLAN INDICATED IN THE SCHEDULE OF QUANTITIES. ALL OTHER EQUIPMENT SHOWN SHALL BE DISREGARDED.
 - THE EXISTING EMERGENCY VEHICLE LIGHT DETECTOR AND LIGHT DETECTOR AMPLIFIER SHALL BE REMOVED AND REPLACED WITH NEW EQUIPMENT. THE EXISTING EQUIPMENT SHALL BE RETURNED TO THE VILLAGE OF HOMEWOOD.
 - THE EXISTING TRAFFIC SIGNAL CONTROLLER SHALL BE REMOVED AND REPLACED IN EXISTING CABINET. THE EXISTING TRAFFIC SIGNAL CONTROL EQUIPMENT SHALL BE RETURNED TO IDOT.

* PLANS MODIFIED BY ROBINSON ENGINEERING, LTD

REVISIONS	
NAME	DATE
ADDED EV PREEMPTION AND NEW CONTROLLER	01/02/08

**VILLAGE OF HOMEWOOD
LOCATION NO. 65**

ILLINOIS DEPARTMENT OF TRANSPORTATION

**PROPOSED EMERGENCY VEHICLE PREEMPTION
CABLE PLAN, PHASE DESIGNATION DIAGRAM &
SCHEDULE OF QUANTITIES
187TH STREET AND DIXIE HIGHWAY**

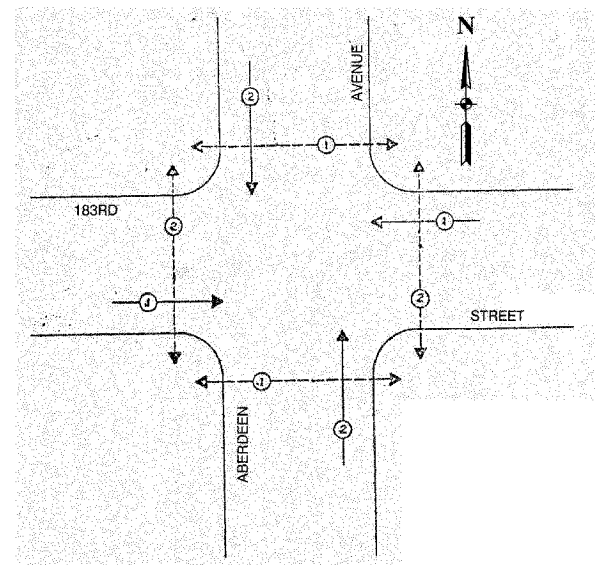
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 HORIZ. _____
 DATE _____

DRAWN BY _____
 CHECKED BY _____

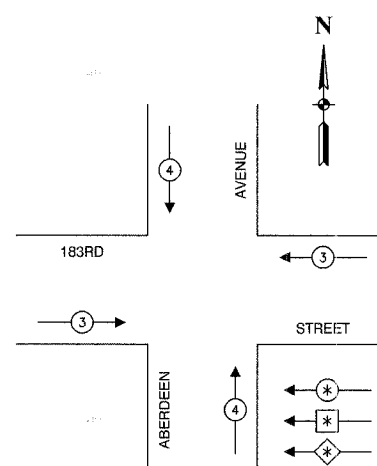
ROBINSON ENGINEERING, LTD.
 17000 SOUTH PARK AVENUE SOUTH HOLLAND, ILLINOIS 60473
 (708) 333-8700 FAX (708) 333-3608
 ILLINOIS DESIGN FIRM REGISTRATION NO. 18400128

F. A. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00146-00-TL	COOK	273	152
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 63003

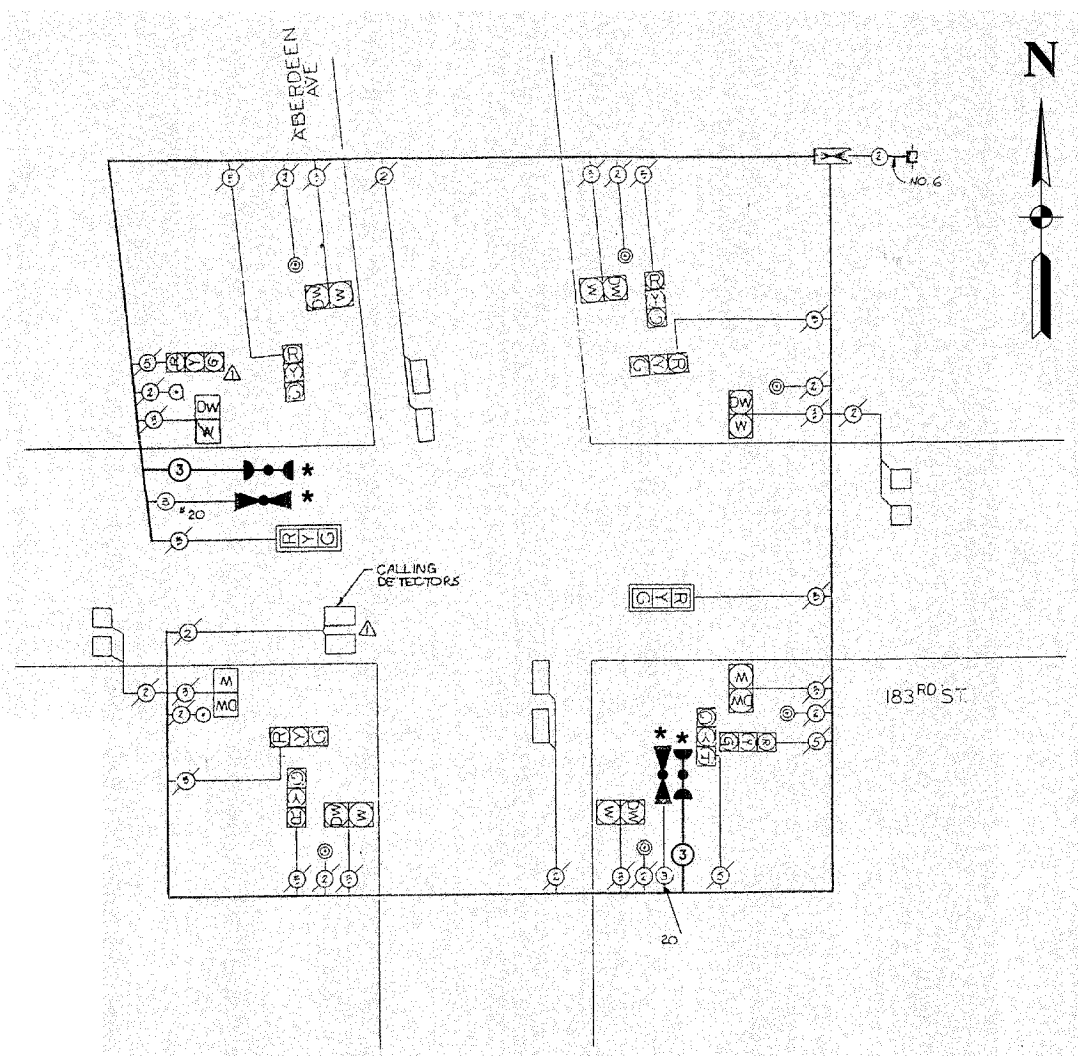


EXISTING PHASE DESIGNATION DIAGRAM



EMERGENCY VEHICLE PREEMPTION SEQUENCE

PROPOSED EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	← →	↑ ↓



CABLE PLAN

EXISTING	PROPOSED	
		8" TRAFFIC SIGNAL SECTION
		12" TRAFFIC SIGNAL SECTION
		12" PEDESTRIAN SIGNAL SECTION
		12" PEDESTRIAN SIGNAL SECTION
		CONTROLLER CABINET
		SERVICE INSTALLATION
		TELEPHONE CONNECTION
		MAGNETIC DETECTOR
		EMERGENCY VEHICLE LIGHT DETECTOR
		CONFIRMATION BEACON
		PUSHBUTTON DETECTOR
		VEHICLE DETECTOR, INDUCTION LOOP
		2 DENOTES NUMBER OF CONDUCTORS.
		ALL CABLE NO. 14 EXCEPT AS INDICATED.
		ALL LOOP DETECTOR CABLE TO BE SHIELDED.
		SIGNAL FACE WITH BACKPLATE
		"P" INDICATES PROGRAMMED HEAD
		RAILROAD CONTROL CABINET
		ILLUMINATED SIGN, FIBER OPTIC
		"NO LEFT TURN"
		ILLUMINATED SIGN, FIBER OPTIC
		"NO RIGHT TURN"
		H/C GROUND ROD AT HANDHOLE, DOUBLE HANDHOLE, OR CONTROLLER
		P GROUND ROD AT POST OR MAST ARM POLE
		S GROUND ROD AT ELECTRIC SERVICE INSTALLATION

SCHEDULE OF QUANTITIES		
PAY ITEM	UNIT	QUANTITY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	274
LIGHT DETECTOR	EACH	2
LIGHT DETECTOR AMPLIFIER	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1

NOTE
 * 1. THIS PLAN IS FOR THE PURPOSE OF INSTALLING EMERGENCY VEHICLE PREEMPTION EQUIPMENT AS SHOWN PER PLAN INDICATED IN THE SCHEDULE OF QUANTITIES. ALL OTHER EQUIPMENT SHOWN SHALL BE DISREGARDED.

* PLANS MODIFIED BY ROBINSON ENGINEERING, LTD

REVISIONS	
NAME	DATE
ADDED EV PREEMPTION	01/02/08

VILLAGE OF HOMEWOOD
 LOCATION NO. 66

ILLINOIS DEPARTMENT OF TRANSPORTATION

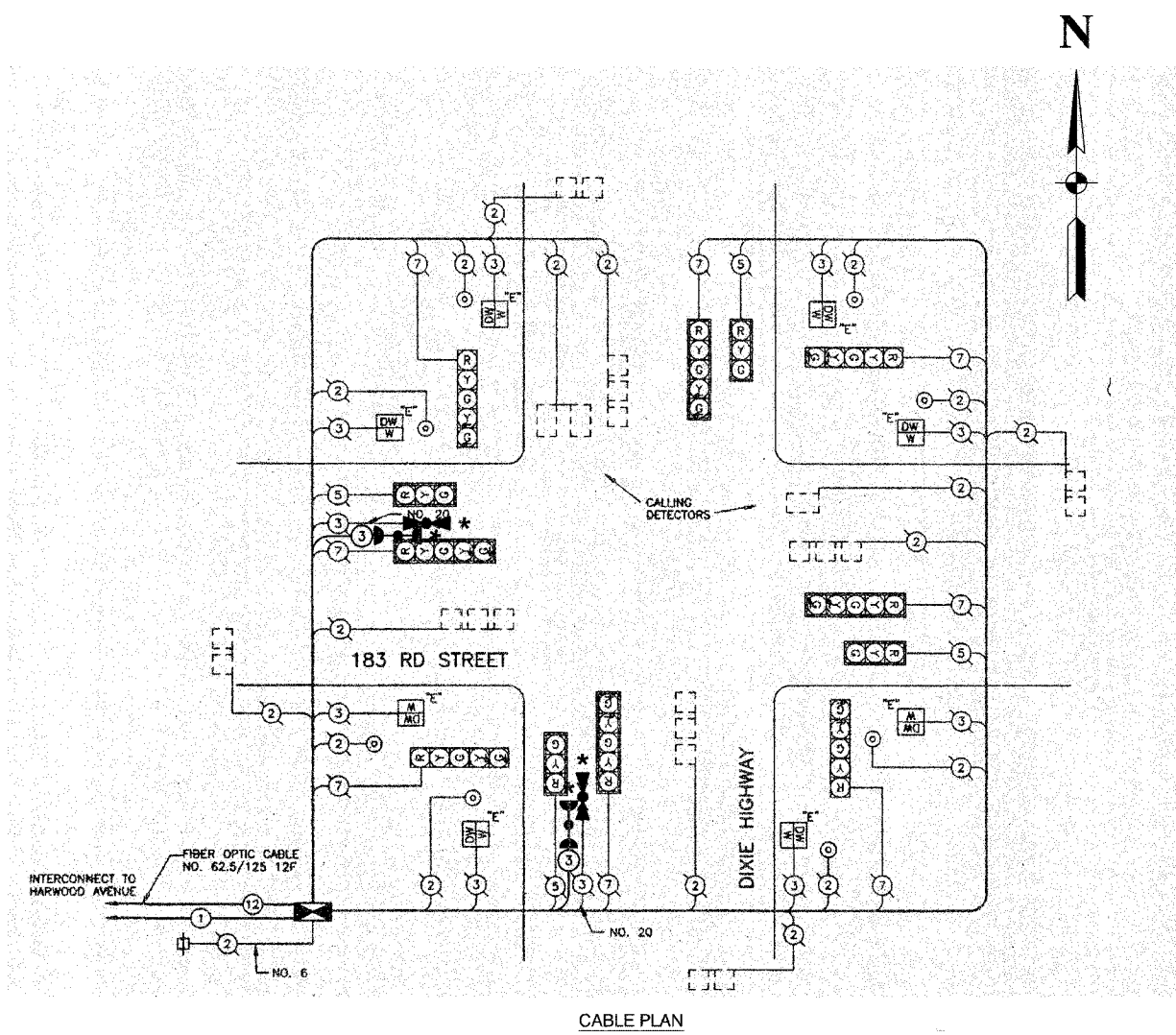
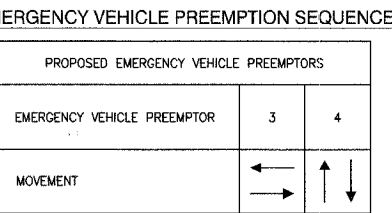
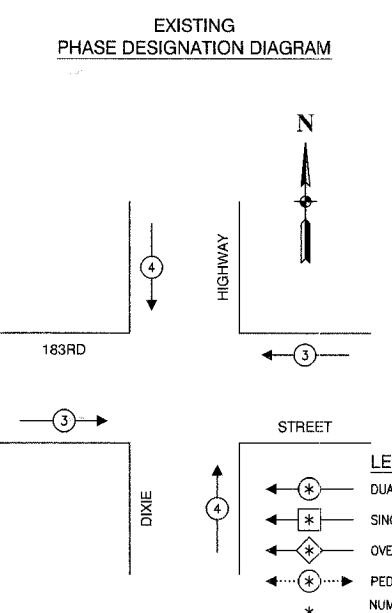
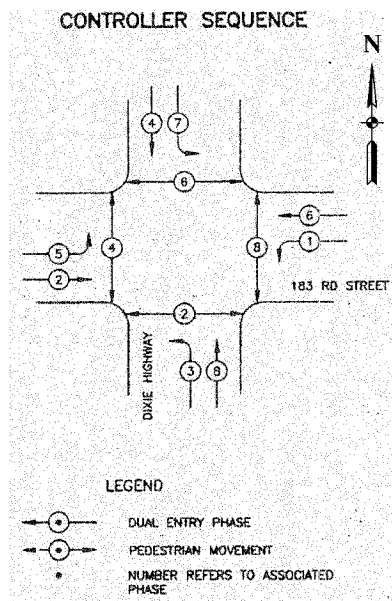
PROPOSED EMERGENCY VEHICLE PREEMPTION CABLE PLAN, PHASE DESIGNATION DIAGRAM & SCHEDULE OF QUANTITIES
 183RD STREET & ABERDEEN AVENUE

SCALE: VERT. _____
 HORIZ. _____

DATE _____ DRAWN BY _____
 CHECKED BY _____

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
08-00146-00-TL	COOK	273	154
STA.	TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	

CONTRACT NO. 63003



SCHEDULE OF QUANTITIES

PAY ITEM	UNIT	QUANTITY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	280
LIGHT DETECTOR	EACH	2
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1

NOTES

* 1. THIS PLAN IS FOR THE PURPOSE OF INSTALLING EMERGENCY VEHICLE PREEMPTION EQUIPMENT AS SHOWN PER PLAN INDICATED IN THE SCHEDULE OF QUANTITIES. ALL OTHER EQUIPMENT SHOWN SHALL BE DISREGARDED.

* PLANS MODIFIED BY ROBINSON ENGINEERING, LTD

REVISIONS	
NAME	DATE
ADDED EV PREEMPTION	01/02/08

ILLINOIS DEPARTMENT OF TRANSPORTATION

PROPOSED EMERGENCY VEHICLE PREEMPTION CABLE PLAN, PHASE DESIGNATION DIAGRAM & SCHEDULE OF QUANTITIES

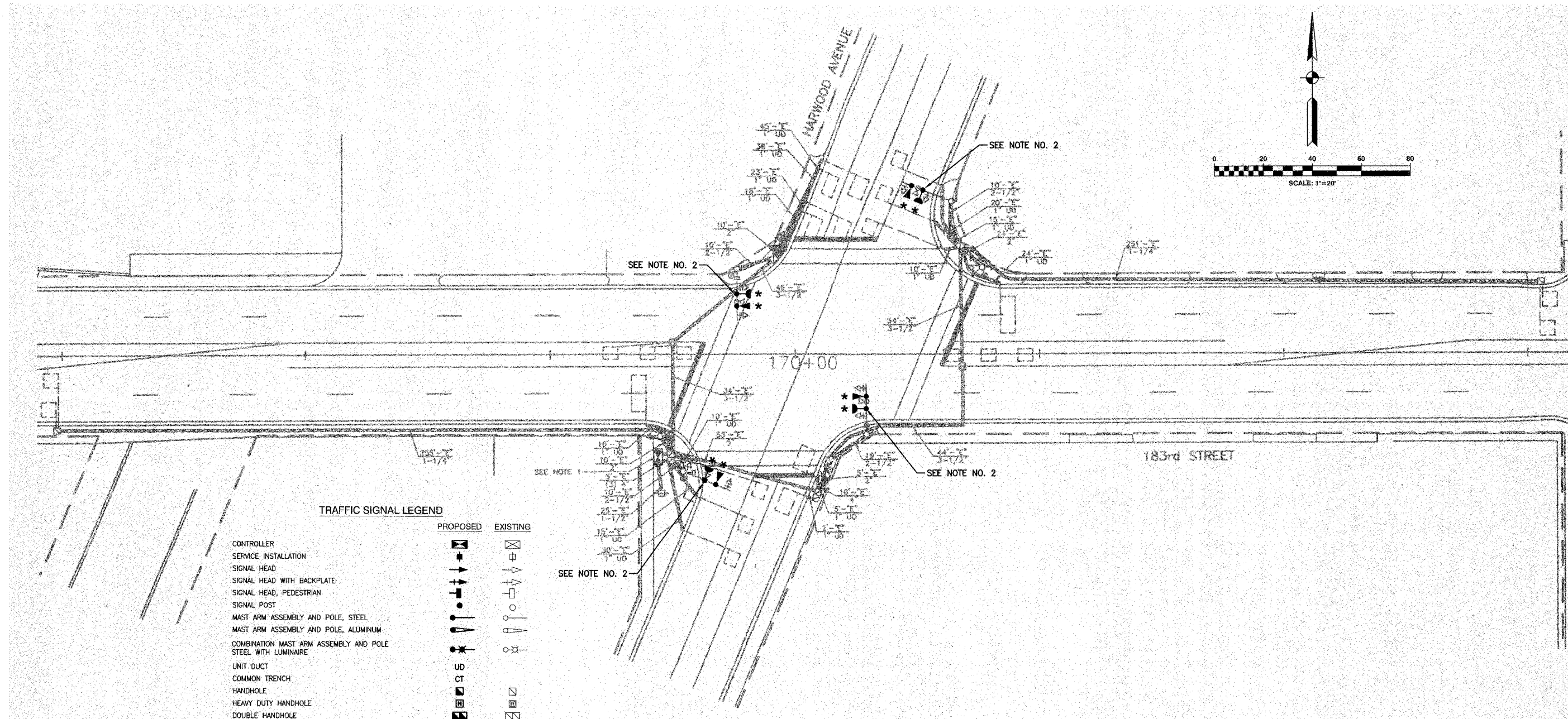
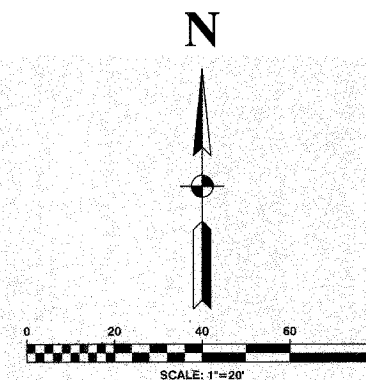
183RD STREET & DIXIE HIGHWAY

SCALE: VERT. _____ HORIZ. _____

DATE _____ DRAWN BY _____ CHECKED BY _____

F. A. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00146-00-TL	COOK	273	155
STA.		TO STA.		
FED. ROAD DIST. NO.	ALIGNED	FED. AID PROJECT		

CONTRACT NO. 63003



TRAFFIC SIGNAL LEGEND

	PROPOSED	EXISTING
CONTROLLER		
SERVICE INSTALLATION		
SIGNAL HEAD		
SIGNAL HEAD WITH BACKPLATE		
SIGNAL HEAD, PEDESTRIAN		
SIGNAL POST		
MAST ARM ASSEMBLY AND POLE, STEEL		
MAST ARM ASSEMBLY AND POLE, ALUMINUM		
COMBINATION MAST ARM ASSEMBLY AND POLE STEEL WITH LUMINAIRE		
UNIT DUCT		
COMMON TRENCH		
HANDHOLE		
HEAVY DUTY HANDHOLE		
DOUBLE HANDHOLE		
G.S. CONDUIT IN GROUND		
PEDESTRIAN PUSHBUTTON DETECTOR		
DETECTOR LOOP		
CAST IRON JUNCTION BOX		
EMERGENCY VEHICLE SYSTEM DETECTOR		
CONFIRMATION BEACON		
SIGNAL HEAD OPTICALLY PROGRAMMED		
CONDUIT SPLICE		
WOOD POLE		
RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II		
VEHICLE DETECTOR, NON COMPENSATED MAGNETIC TYPE		
RAILROAD CONTROL CABINET		
TELEPHONE CONNECTION		
ILLUMINATED SIGN, FIBER OPTIC "NO LEFT TURN"		
ILLUMINATED SIGN, FIBER OPTIC "NO RIGHT TURN"		

NOTES

- * 1. THIS PLAN IS FOR THE PURPOSE OF INSTALLING EMERGENCY VEHICLE PREEMPTION EQUIPMENT AS SHOWN PER PLAN INDICATED IN THE SCHEDULE OF QUANTITIES. ALL OTHER EQUIPMENT SHOWN SHALL BE DISREGARDED.
- 2. THE EXISTING EMERGENCY VEHICLE LIGHT DETECTOR SHALL BE REMOVED AND REPLACED WITH NEW EQUIPMENT. THE EXISTING EQUIPMENT SHALL BE RETURNED TO THE VILLAGE OF HOMEWOOD.

**VILLAGE OF HOMEWOOD
LOCATION NO. 68**

ILLINOIS DEPARTMENT OF TRANSPORTATION

**PROPOSED EMERGENCY VEHICLE PREEMPTION
183RD STREET & HARWOOD AVENUE**

* PLANS MODIFIED BY
ROBINSON ENGINEERING, LTD

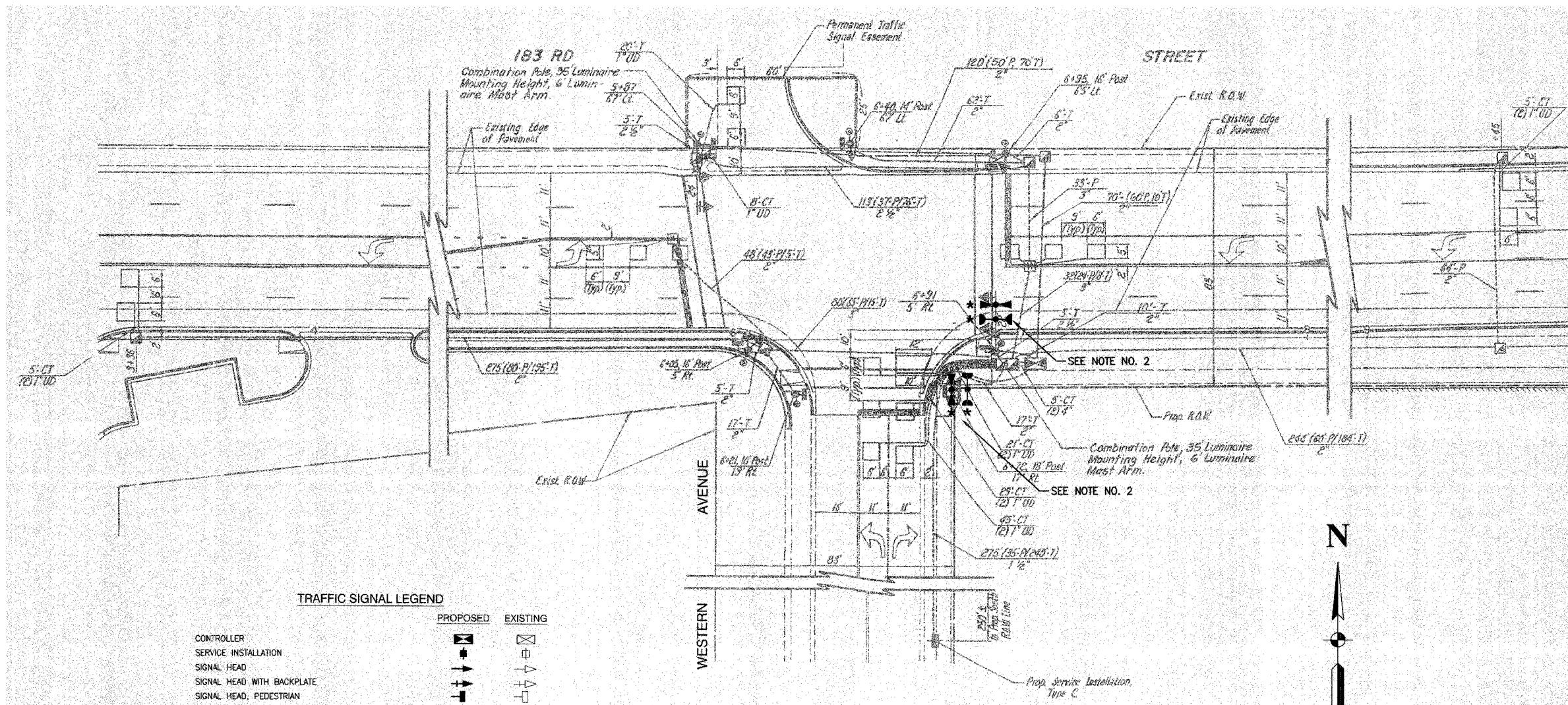
REVISIONS	
NAME	DATE
ADDED EV PREEMPTION	01/02/08

SCALE: VERT. _____
HORIZ. _____
DATE _____ DRAWN BY _____
CHECKED BY _____

ROBINSON ENGINEERING, LTD.
17000 SOUTH PARK AVENUE SOUTH HOLLAND, ILLINOIS 60473
(708) 331-8100 FAX (708) 331-8108
ILLINOIS DESIGN FIRM REGISTRATION NO. 18420126

F. A. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00146-00-TL	COOK	273	157
STA.		TO STA.		
FED. ROAD DIST. NO.	KLINGS	FED. AID PROJECT		

CONTRACT NO. 63003



TRAFFIC SIGNAL LEGEND

	PROPOSED	EXISTING
CONTROLLER		
SERVICE INSTALLATION		
SIGNAL HEAD		
SIGNAL HEAD WITH BACKPLATE		
SIGNAL HEAD, PEDESTRIAN		
SIGNAL POST		
MAST ARM ASSEMBLY AND POLE, STEEL		
MAST ARM ASSEMBLY AND POLE, ALUMINUM		
COMBINATION MAST ARM ASSEMBLY AND POLE STEEL WITH LUMINAIRE		
UNIT DUCT		
COMMON TRENCH		
HANDHOLE		
HEAVY DUTY HANDHOLE		
DOUBLE HANDHOLE		
C.S. CONDUIT IN GROUND		
PEDESTRIAN PUSHBUTTON DETECTOR		
DETECTOR LOOP		
CAST IRON JUNCTION BOX		
EMERGENCY VEHICLE SYSTEM DETECTOR		
CONFIRMATION BEACON		
SIGNAL HEAD OPTICALLY PROGRAMMED		
CONDUIT SPLICE		
WOOD POLE		
RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II		
VEHICLE DETECTOR, NON COMPENSATED MAGNETIC TYPE		
RAILROAD CONTROL CABINET		
TELEPHONE CONNECTION		
ILLUMINATED SIGN, FIBER OPTIC "NO LEFT TURN"		
ILLUMINATED SIGN, FIBER OPTIC "NO RIGHT TURN"		

NOTES

- * 1. THIS PLAN IS FOR THE PURPOSE OF INSTALLING EMERGENCY VEHICLE PREEMPTION EQUIPMENT AS SHOWN PER PLAN INDICATED IN THE SCHEDULE OF QUANTITIES. ALL OTHER EQUIPMENT SHOWN SHALL BE DISREGARDED.
- 2. THE EXISTING EMERGENCY VEHICLE LIGHT DETECTOR SHALL BE REMOVED AND REPLACED WITH NEW EQUIPMENT. THE EXISTING EQUIPMENT SHALL BE RETURNED TO THE VILLAGE OF HOMEWOOD.

**VILLAGE OF HOMEWOOD
LOCATION NO. 69**

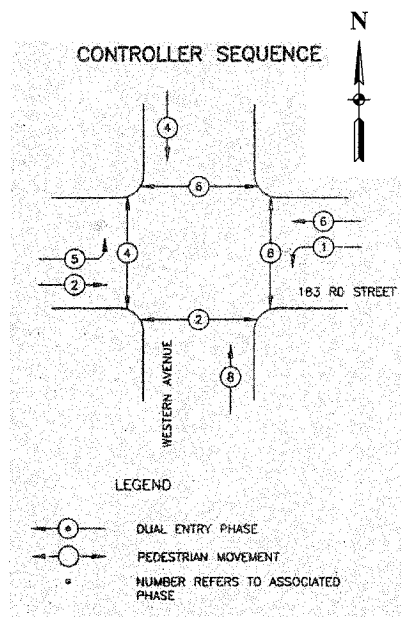
* PLANS MODIFIED BY
ROBINSON ENGINEERING, LTD

REVISIONS	
NAME	DATE
* ADDED EV PREEMPTION	01/02/08

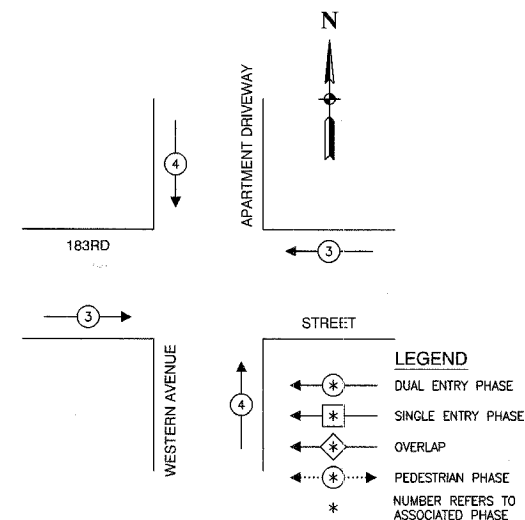
ILLINOIS DEPARTMENT OF TRANSPORTATION	
PROPOSED EMERGENCY VEHICLE PREEMPTION 183RD STREET & WESTERN AVENUE	
SCALE: VERT. DATE	HORIZ. DRAWN BY CHECKED BY

F. A. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00146-00-TL	COOK	273	158
STA.	TO STA.			
FED. ROAD DIST. NO.	BLANKS	FED. NO. PROJECT		

CONTRACT NO. 63003

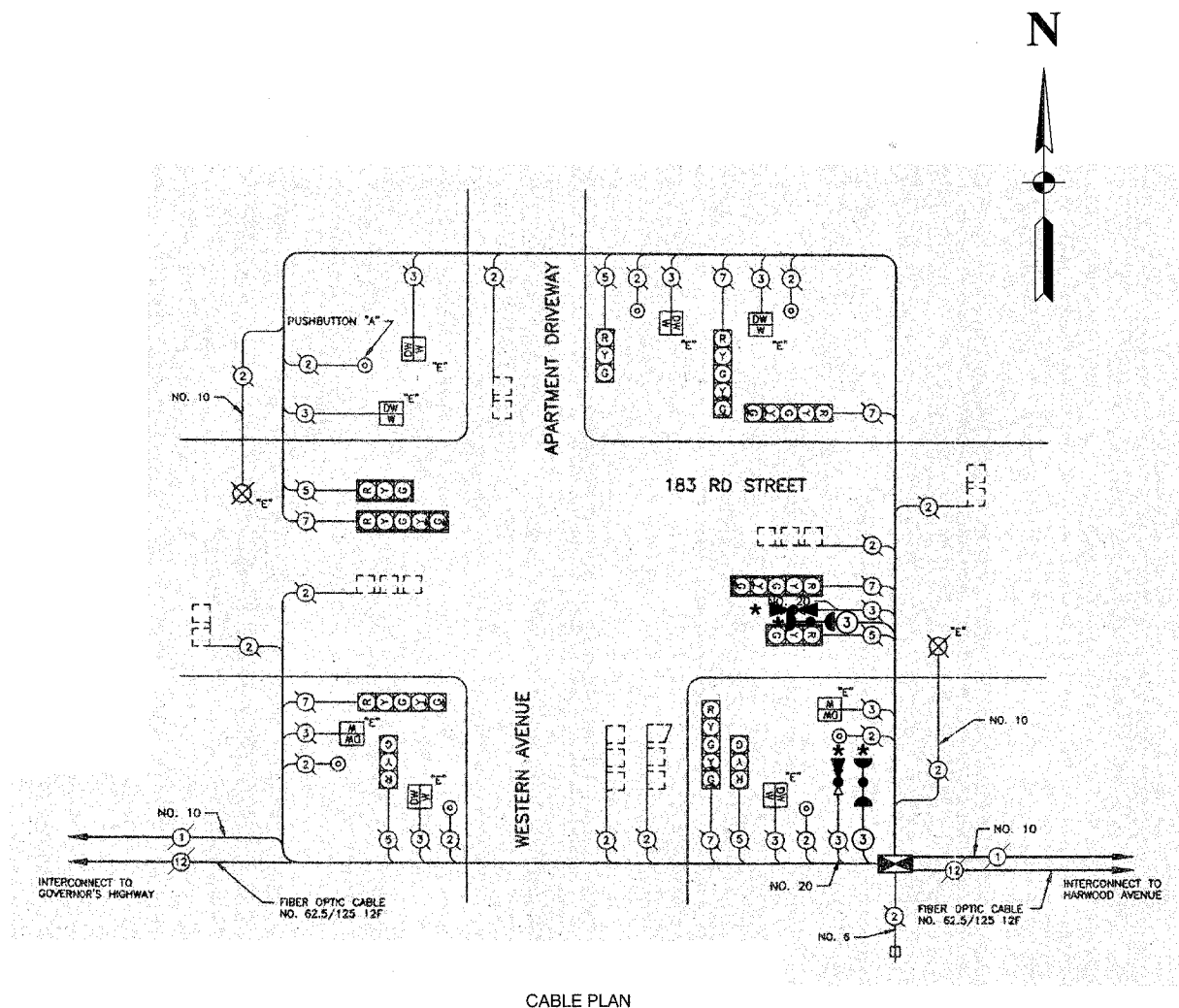


PHASE DESIGNATION DIAGRAM



EMERGENCY VEHICLE PREEMPTION SEQUENCE

PROPOSED EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	← →	↑ ↓



SCHEDULE OF QUANTITIES		
PAY ITEM	UNIT	QUANTITY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	135
LIGHT DETECTOR	EACH	2
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1

NOTE

* 1. THIS PLAN IS FOR THE PURPOSE OF INSTALLING EMERGENCY VEHICLE PREEMPTION EQUIPMENT AS SHOWN PER PLAN INDICATED IN THE SCHEDULE OF QUANTITIES. ALL OTHER EQUIPMENT SHOWN SHALL BE DISREGARDED.

CABLE PLAN LEGEND

EXISTING	PROPOSED	DESCRIPTION
(G)	(G)	8" TRAFFIC SIGNAL SECTION
(R)	(R)	12" TRAFFIC SIGNAL SECTION
(W)	(W)	12" PEDESTRIAN SIGNAL SECTION
(W)	(W)	12" PEDESTRIAN SIGNAL SECTION
(W)	(W)	12" PEDESTRIAN SIGNAL SECTION
(C)	(C)	CONTROLLER CABINET
(S)	(S)	SERVICE INSTALLATION
(T)	(T)	TELEPHONE CONNECTION
(M)	(M)	MAGNETIC DETECTOR
(E)	(E)	EMERGENCY VEHICLE LIGHT DETECTOR
(C)	(C)	CONFIRMATION BEACON
(P)	(P)	PUSHBUTTON DETECTOR
(V)	(V)	VEHICLE DETECTOR, INDUCTION LOOP
(2)	(2)	DENOTES NUMBER OF CONDUCTORS. ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED.
(S)	(S)	SIGNAL FACE WITH BACKPLATE
(P)	(P)	"P" INDICATES PROGRAMMED HEAD
(R)	(R)	RAILROAD CONTROL CABINET
(L)	(L)	ILLUMINATED SIGN, FIBER OPTIC "NO LEFT TURN"
(R)	(R)	ILLUMINATED SIGN, FIBER OPTIC "NO RIGHT TURN"
(H/C)	(H/C)	GROUND ROD AT HANDHOLE, DOUBLE HANDHOLE, OR CONTROLLER
(P)	(P)	GROUND ROD AT POST OR MAST ARM POLE
(S)	(S)	GROUND ROD AT ELECTRIC SERVICE INSTALLATION

VILLAGE OF HOMEWOOD
LOCATION NO. 69

ILLINOIS DEPARTMENT OF TRANSPORTATION

PROPOSED EMERGENCY VEHICLE PREEMPTION CABLE PLAN, PHASE DESIGNATION DIAGRAM & SCHEDULE OF QUANTITIES

183RD STREET & WESTERN AVENUE

* PLANS MODIFIED BY
ROBINSON ENGINEERING, LTD

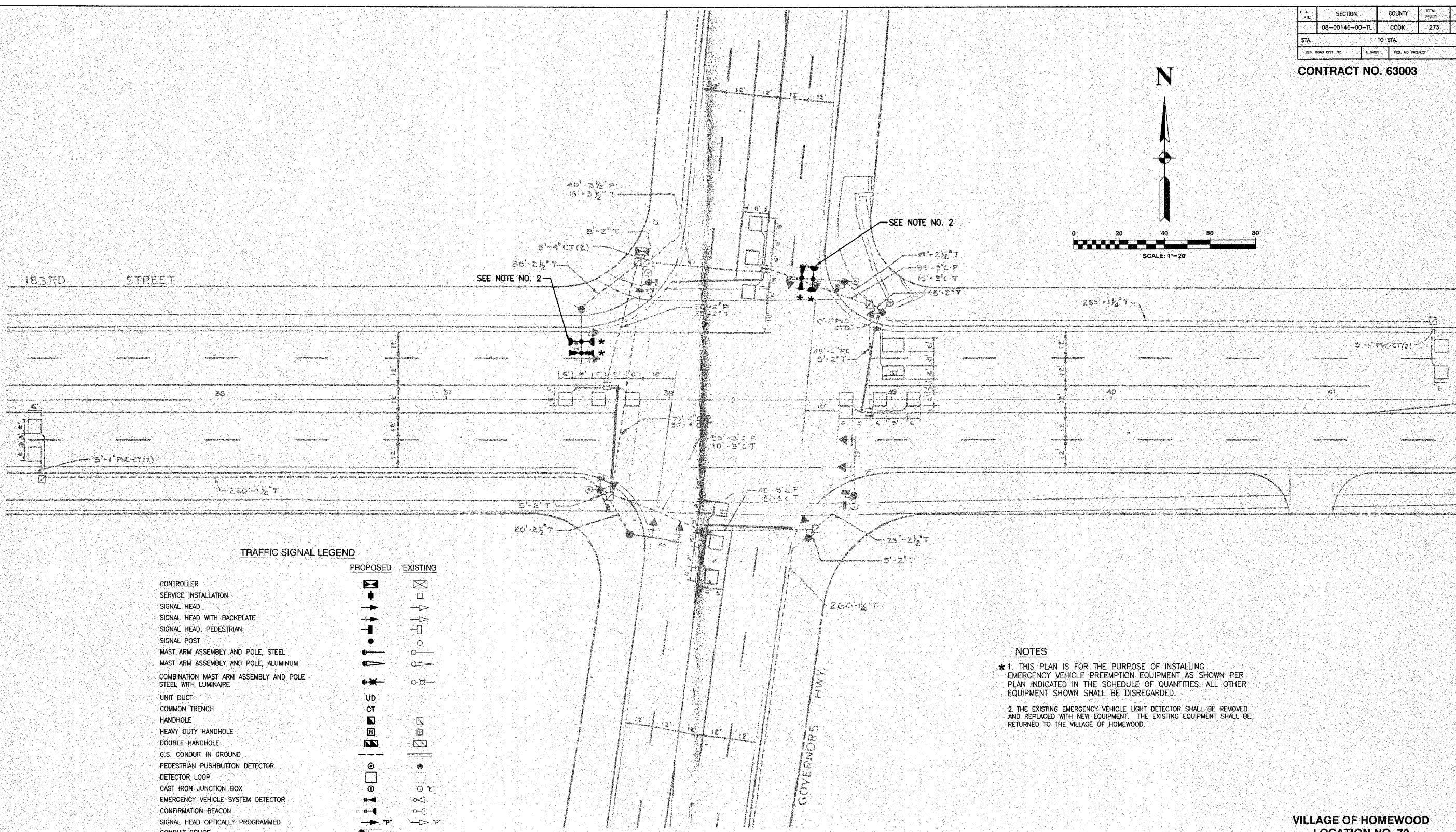
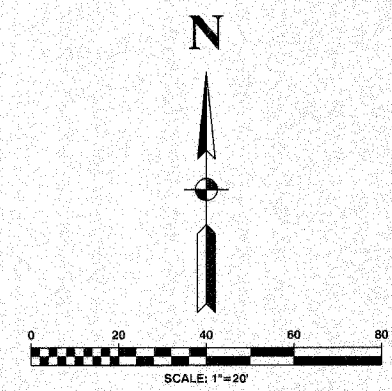
REVISIONS	
NAME	DATE
* ADDED EV PREEMPTION	01/02/08

SCALE: VERT. DRAWN BY
HORIZ. CHECKED BY
DATE

ROBINSON ENGINEERING, LTD.
1700 SOUTH PARK AVENUE SOUTH HOLLAND, ILLINOIS 60473
708/331-8200 FAX 708/331-0808
ILLINOIS DESIGN FIRM REGISTRATION NO. 184001126

F. A. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00146-00-TL	COOK	273	158
STA.	TO STA.			
FED. ROAD DIST. NO.	ELIMOS	FED. AID PROJECT		

CONTRACT NO. 63003



TRAFFIC SIGNAL LEGEND

	PROPOSED	EXISTING
CONTROLLER		
SERVICE INSTALLATION		
SIGNAL HEAD		
SIGNAL HEAD WITH BACKPLATE		
SIGNAL HEAD, PEDESTRIAN		
SIGNAL POST		
MAST ARM ASSEMBLY AND POLE, STEEL		
MAST ARM ASSEMBLY AND POLE, ALUMINUM		
COMBINATION MAST ARM ASSEMBLY AND POLE STEEL WITH LUMINAIRE		
UNIT DUCT		
COMMON TRENCH		
HANDHOLE		
HEAVY DUTY HANDHOLE		
DOUBLE HANDHOLE		
G.S. CONDUIT IN GROUND		
PEDESTRIAN PUSHBUTTON DETECTOR		
DETECTOR LOOP		
CAST IRON JUNCTION BOX		
EMERGENCY VEHICLE SYSTEM DETECTOR		
CONFIRMATION BEACON		
SIGNAL HEAD OPTICALLY PROGRAMMED		
CONDUIT SPLICE		
WOOD POLE		
RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II		
VEHICLE DETECTOR, NON COMPENSATED MAGNETIC TYPE		
RAILROAD CONTROL CABINET		
TELEPHONE CONNECTION		
ILLUMINATED SIGN, FIBER OPTIC "NO LEFT TURN"		
ILLUMINATED SIGN, FIBER OPTIC "NO RIGHT TURN"		

NOTES

- * 1. THIS PLAN IS FOR THE PURPOSE OF INSTALLING EMERGENCY VEHICLE PREEMPTION EQUIPMENT AS SHOWN PER PLAN INDICATED IN THE SCHEDULE OF QUANTITIES. ALL OTHER EQUIPMENT SHOWN SHALL BE DISREGARDED.
- 2. THE EXISTING EMERGENCY VEHICLE LIGHT DETECTOR SHALL BE REMOVED AND REPLACED WITH NEW EQUIPMENT. THE EXISTING EQUIPMENT SHALL BE RETURNED TO THE VILLAGE OF HOMEWOOD.

VILLAGE OF HOMEWOOD
LOCATION NO. 70

* PLANS MODIFIED BY
ROBINSON ENGINEERING, LTD

REVISIONS	
NAME	DATE
* ADDED EV PREEMPTION	01/02/06

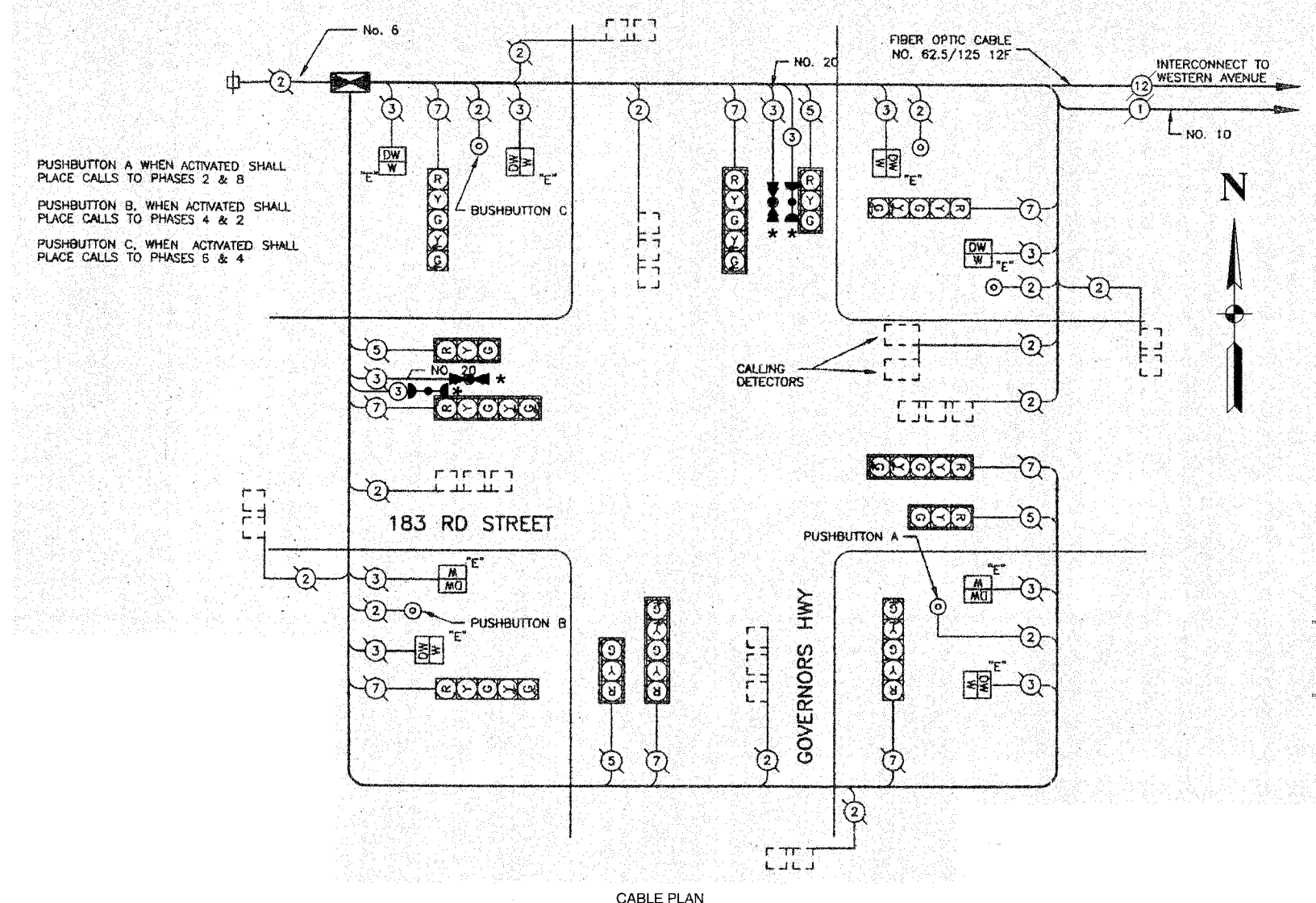
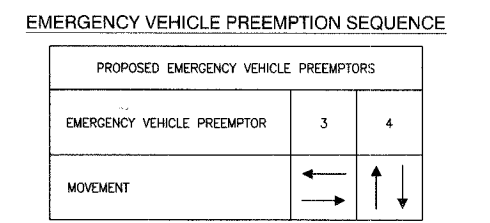
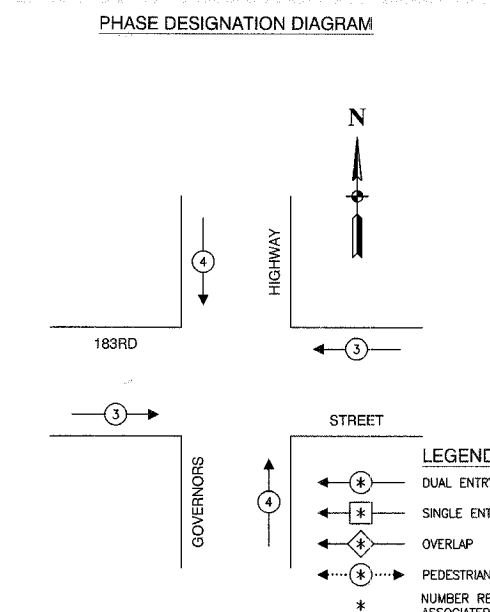
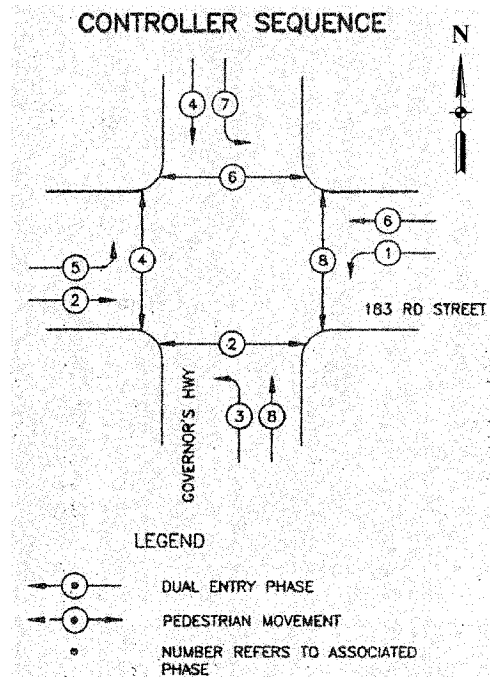
ILLINOIS DEPARTMENT OF TRANSPORTATION
**PROPOSED EMERGENCY VEHICLE PREEMPTION
183RD STREET & GOVERNORS HIGHWAY**

SCALE: VERT. _____
HORIZ. _____
DATE _____ DRAWN BY _____
CHECKED BY _____

ROBINSON ENGINEERING, LTD.
17000 SOUTH PARK AVENUE SOUTH HICKORY, ILLINOIS 60473
(708) 531-4100 FAX (708) 531-0828
ILLINOIS DESIGN FIRM REGISTRATION NO. 136021120

F. A. ETC.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00146-00-TL	COOK	273	160
STA.	TO STA.			
FED. ROAD DIST. NO.	ALNOS	FED. AID PROJECT		

CONTRACT NO. 63003



CABLE PLAN LEGEND

EXISTING	PROPOSED	DESCRIPTION
(Symbol)	(Symbol)	8" TRAFFIC SIGNAL SECTION
(Symbol)	(Symbol)	12" TRAFFIC SIGNAL SECTION
(Symbol)	(Symbol)	12" PEDESTRIAN SIGNAL SECTION
(Symbol)	(Symbol)	12" PEDESTRIAN SIGNAL SECTION
(Symbol)	(Symbol)	CONTROLLER CABINET
(Symbol)	(Symbol)	SERVICE INSTALLATION
(Symbol)	(Symbol)	TELEPHONE CONNECTION
(Symbol)	(Symbol)	MAGNETIC DETECTOR
(Symbol)	(Symbol)	EMERGENCY VEHICLE LIGHT DETECTOR
(Symbol)	(Symbol)	CONFIRMATION BEACON
(Symbol)	(Symbol)	PUSHBUTTON DETECTOR
(Symbol)	(Symbol)	VEHICLE DETECTOR, INDUCTION LOOP
(Symbol)	(Symbol)	2 DENOTES NUMBER OF CONDUCTORS. ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED.
(Symbol)	(Symbol)	SIGNAL FACE WITH BACKPLATE
(Symbol)	(Symbol)	"P" INDICATES PROGRAMMED HEAD
(Symbol)	(Symbol)	RAILROAD CONTROL CABINET
(Symbol)	(Symbol)	ILLUMINATED SIGN, FIBER OPTIC "NO LEFT TURN"
(Symbol)	(Symbol)	ILLUMINATED SIGN, FIBER OPTIC "NO RIGHT TURN"
(Symbol)	(Symbol)	H/C GROUND ROD AT HANDHOLE, DOUBLE HANDHOLE, OR CONTROLLER
(Symbol)	(Symbol)	P GROUND ROD AT POST OR MAST ARM POLE
(Symbol)	(Symbol)	S GROUND ROD AT ELECTRIC SERVICE INSTALLATION

SCHEDULE OF QUANTITIES

PAY ITEM	UNIT	QUANTITY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	269
LIGHT DETECTOR	EACH	2
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1

NOTE
 * 1. THIS PLAN IS FOR THE PURPOSE OF INSTALLING EMERGENCY VEHICLE PREEMPTION EQUIPMENT AS SHOWN PER PLAN INDICATED IN THE SCHEDULE OF QUANTITIES. ALL OTHER EQUIPMENT SHOWN SHALL BE DISREGARDED.

* PLANS MODIFIED BY ROBINSON ENGINEERING, LTD.

REVISIONS	
NAME	DATE
ADDED EV PREEMPTION	01/02/08

VILLAGE OF HOMEWOOD
 LOCATION NO. 70

ILLINOIS DEPARTMENT OF TRANSPORTATION

PROPOSED EMERGENCY VEHICLE PREEMPTION CABLE PLAN, PHASE DESIGNATION DIAGRAM & SCHEDULE OF QUANTITIES
 183RD STREET & GOVERNORS HIGHWAY

SCALE: VERT. _____ DRAWN BY _____
 HORIZ. _____ CHECKED BY _____
 DATE _____

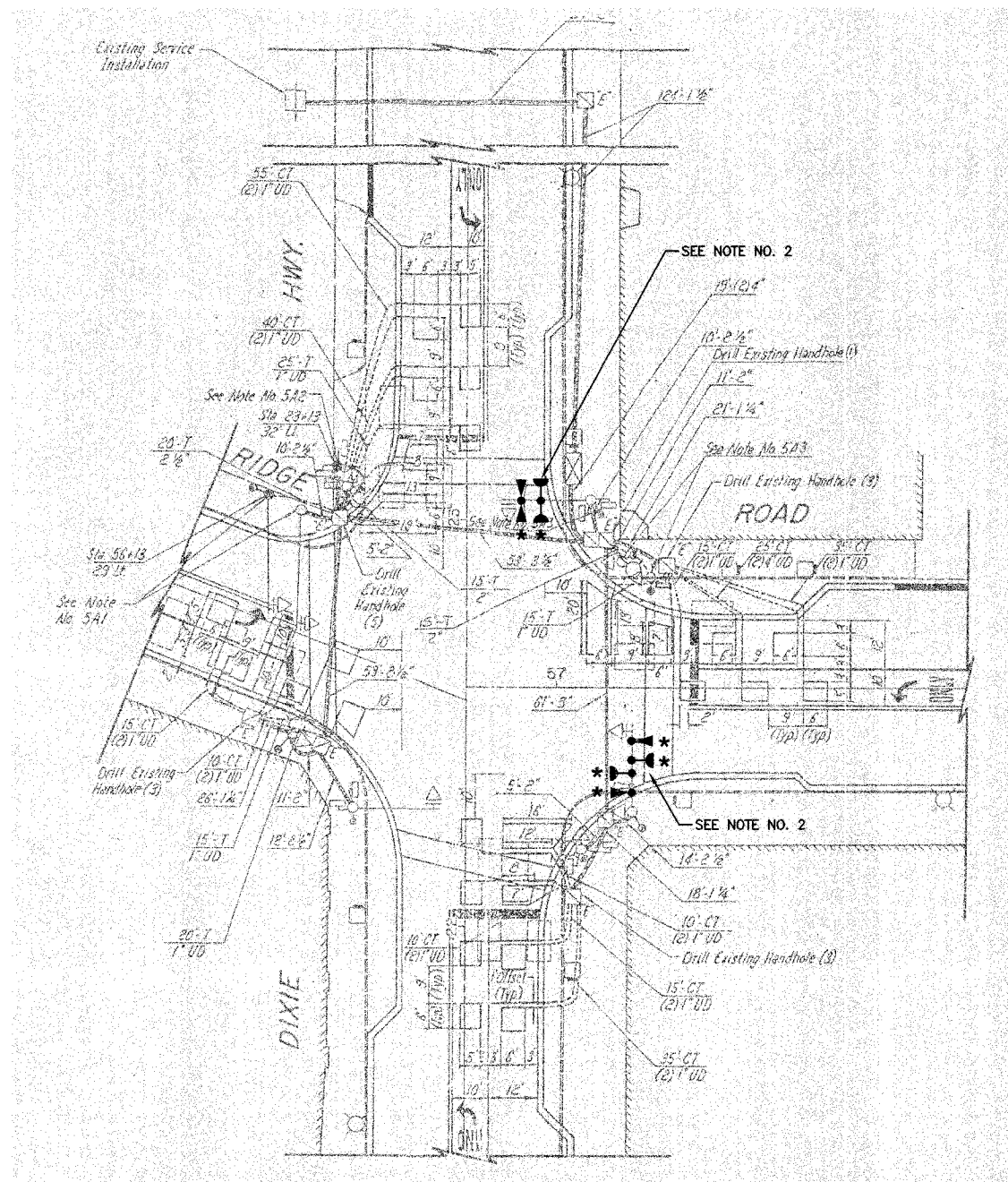
ROBINSON ENGINEERING, LTD.
 17000 SOUTH PARK AVENUE SOUTH HOLLAND, ILLINOIS 60478
 (708) 251-8100 FAX (708) 351-1008
 ILLINOIS DESIGN FIRM REGISTRATION NO. 184001128

F. A. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00146-00-TL	COOK	273	161
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 63003

TRAFFIC SIGNAL LEGEND

	PROPOSED	EXISTING
CONTROLLER		
SERVICE INSTALLATION		
SIGNAL HEAD		
SIGNAL HEAD WITH BACKPLATE		
SIGNAL HEAD, PEDESTRIAN		
SIGNAL POST		
MAST ARM ASSEMBLY AND POLE, STEEL		
MAST ARM ASSEMBLY AND POLE, ALUMINUM		
COMBINATION MAST ARM ASSEMBLY AND POLE STEEL WITH LUMINAIRE		
UNIT DUCT		
COMMON TRENCH		
HANDHOLE		
HEAVY DUTY HANDHOLE		
DOUBLE HANDHOLE		
G.S. CONDUIT IN GROUND		
PEDESTRIAN PUSHBUTTON DETECTOR		
DETECTOR LOOP		
CAST IRON JUNCTION BOX		
EMERGENCY VEHICLE SYSTEM DETECTOR		
CONFIRMATION BEACON		
SIGNAL HEAD OPTICALLY PROGRAMMED		
CONDUIT SPLICE		
WOOD POLE		
RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II		
VEHICLE DETECTOR, NON COMPENSATED MAGNETIC TYPE		
RAILROAD CONTROL CABINET		
TELEPHONE CONNECTION		
ILLUMINATED SIGN, FIBER OPTIC "NO LEFT TURN"		
ILLUMINATED SIGN, FIBER OPTIC "NO RIGHT TURN"		



NOTES

- * 1. THIS PLAN IS FOR THE PURPOSE OF INSTALLING EMERGENCY VEHICLE PREEMPTION EQUIPMENT AS SHOWN PER PLAN INDICATED IN THE SCHEDULE OF QUANTITIES. ALL OTHER EQUIPMENT SHOWN SHALL BE DISREGARDED.
- 2. THE EXISTING EMERGENCY VEHICLE LIGHT DETECTOR SHALL BE REMOVED AND REPLACED WITH NEW EQUIPMENT. THE EXISTING EQUIPMENT SHALL BE RETURNED TO THE VILLAGE OF HOMERWOOD.

VILLAGE OF HOMERWOOD
LOCATION NO. 71

* PLANS MODIFIED BY
ROBINSON ENGINEERING, LTD

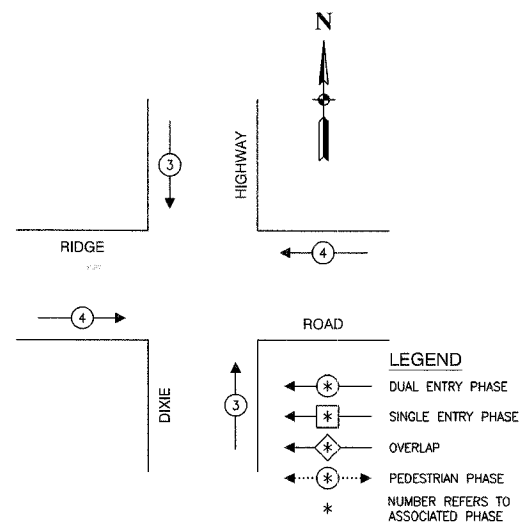
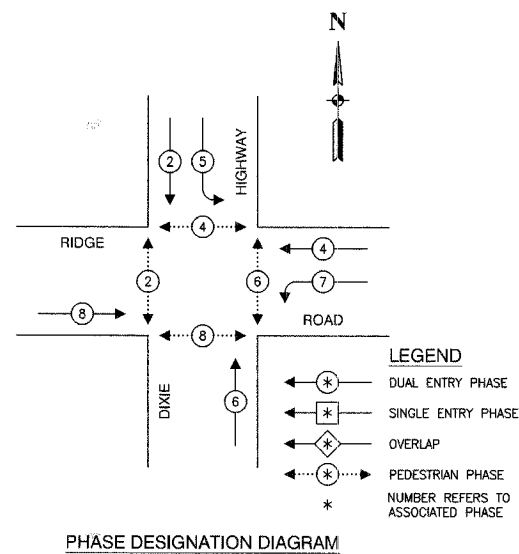
REVISIONS	
NAME	DATE
* ADDED EV PREEMPTION	01/02/08

ILLINOIS DEPARTMENT OF TRANSPORTATION
**PROPOSED EMERGENCY VEHICLE PREEMPTION
RIDGE ROAD & DIXIE HIGHWAY**

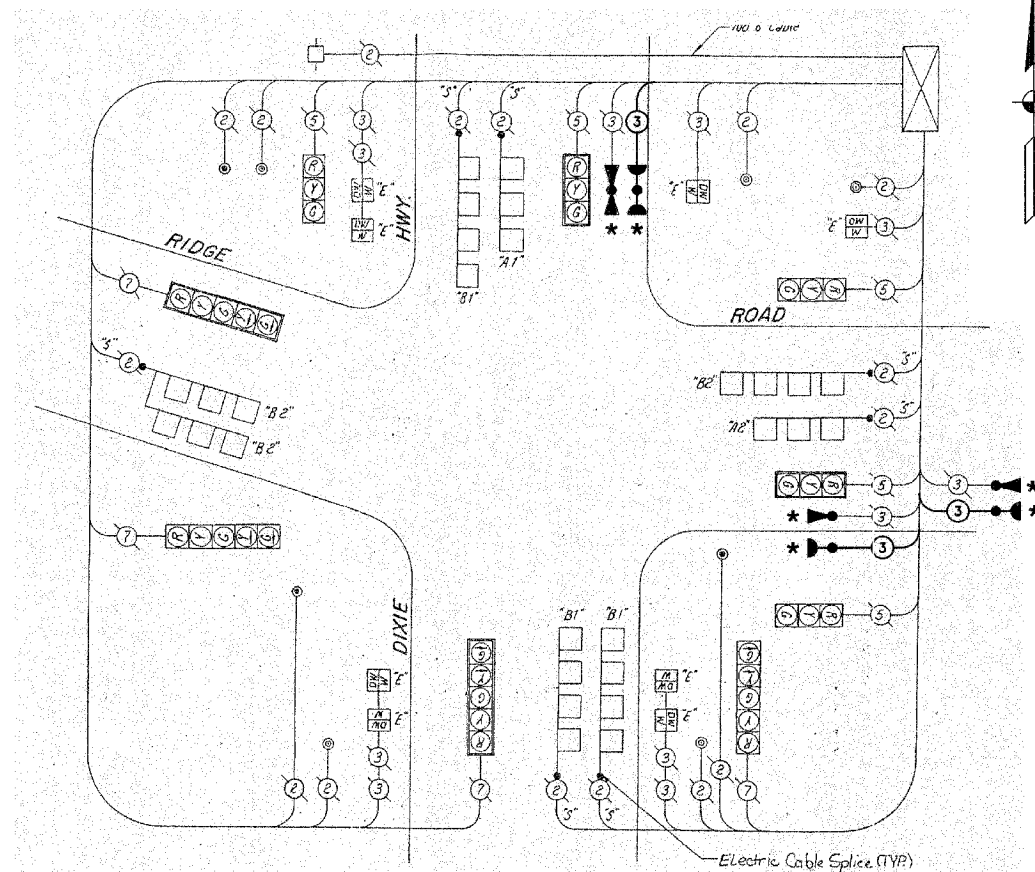
SCALE: VERT. _____
HORIZ. _____
DATE _____ DRAWN BY _____
CHECKED BY _____

F. A. DIST.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00146-00-TL	COOK	273	162
STA.	TO STA.			
FED. ROAD DIST. NO.	ALPHAS	FED. AID PROJECT		

CONTRACT NO. 63003



PROPOSED EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	↓	↑



SCHEDULE OF QUANTITIES		
PAY ITEM	UNIT	QUANTITY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 30	FOOT	253
LIGHT DETECTOR	EACH	3
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1

NOTE

* 1. THIS PLAN IS FOR THE PURPOSE OF INSTALLING EMERGENCY VEHICLE PREEMPTION EQUIPMENT AS SHOWN PER PLAN INDICATED IN THE SCHEDULE OF QUANTITIES. ALL OTHER EQUIPMENT SHOWN SHALL BE DISREGARDED.



EXISTING	PROPOSED	
		8" TRAFFIC SIGNAL SECTION
		12" TRAFFIC SIGNAL SECTION
		12" PEDESTRIAN SIGNAL SECTION
		12" PEDESTRIAN SIGNAL SECTION
		CONTROLLER CABINET
		SERVICE INSTALLATION
		TELEPHONE CONNECTION
		MAGNETIC DETECTOR
		EMERGENCY VEHICLE LIGHT DETECTOR
		CONFIRMATION BEACON
		PUSHBUTTON DETECTOR
		VEHICLE DETECTOR, INDUCTION LOOP
		DENOTES NUMBER OF CONDUCTORS.
		ALL CABLE NO. 14 EXCEPT AS INDICATED.
		ALL LOOP DETECTOR CABLE TO BE SHIELDED.
		SIGNAL FACE WITH BACKPLATE
		"P" INDICATES PROGRAMMED HEAD
		RAILROAD CONTROL CABINET
		ILLUMINATED SIGN, FIBER OPTIC
		"NO LEFT TURN"
		ILLUMINATED SIGN, FIBER OPTIC
		"NO RIGHT TURN"
		GROUND ROD AT HANDHOLE, DOUBLE HANDHOLE, OR CONTROLLER
		GROUND ROD AT POST OR MAST ARM POLE
		GROUND ROD AT ELECTRIC SERVICE INSTALLATION

* PLANS MODIFIED BY ROBINSON ENGINEERING, LTD

REVISIONS	
NAME	DATE
ADDED EV PREEMPTION	01/02/08

VILLAGE OF HOMEWOOD
LOCATION NO. 71

ILLINOIS DEPARTMENT OF TRANSPORTATION

PROPOSED EMERGENCY VEHICLE PREEMPTION
CABLE PLAN, PHASE DESIGNATION DIAGRAM &
SCHEDULE OF QUANTITIES
RIDGE ROAD & DIXIE HIGHWAY

SCALE: VERT. _____
HORIZ. _____

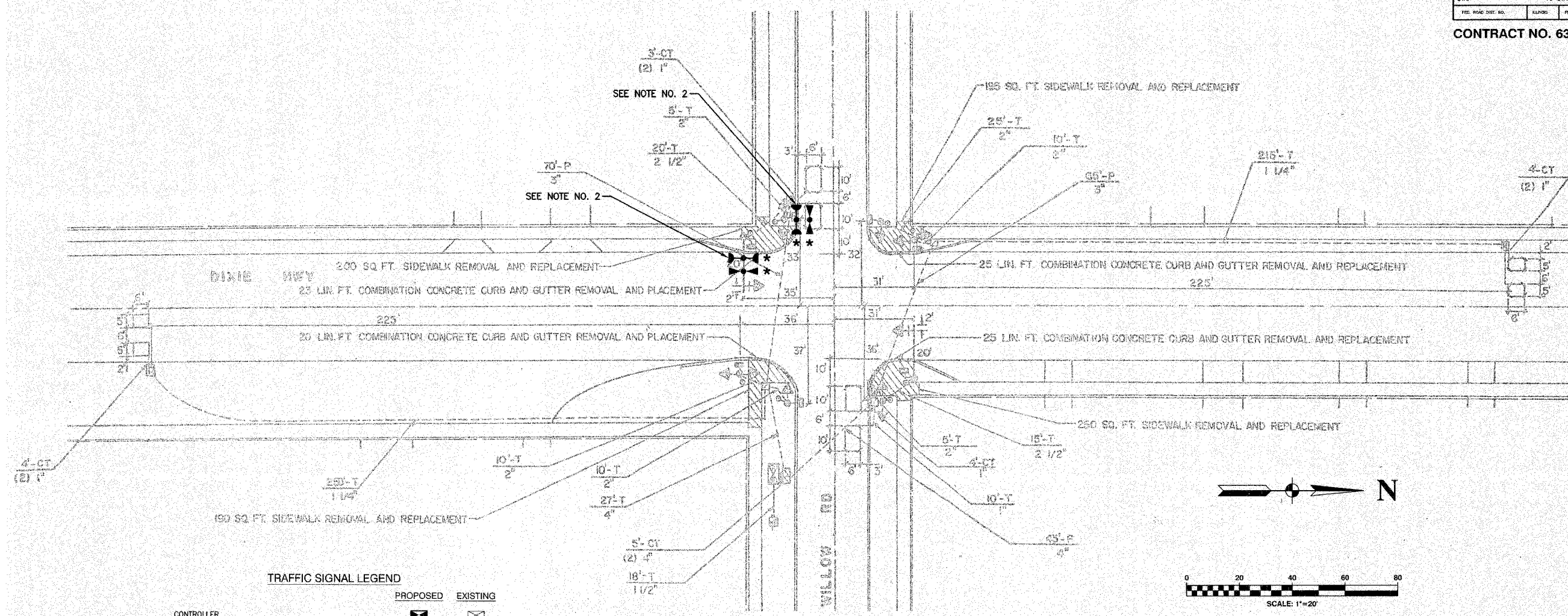
DATE _____ DRAWN BY _____
CHECKED BY _____

ROBINSON ENGINEERING, LTD.
17005 SOUTH PARK AVENUE SOUTH HOLLAND, ILLINOIS 60473
708.581-8300 FAX 708.581-8308
ILLINOIS DESIGN FIRM REGISTRATION NO. 194091226

07248-119

F.A. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00146-00-TL	COOK	273	163
STA.		TO STA.		
FED. ROAD DIST. NO.	CLASS.	FED. AID PROJECT		

CONTRACT NO. 63003



TRAFFIC SIGNAL LEGEND

	PROPOSED	EXISTING
CONTROLLER	[Symbol]	[Symbol]
SERVICE INSTALLATION	[Symbol]	[Symbol]
SIGNAL HEAD	[Symbol]	[Symbol]
SIGNAL HEAD WITH BACKPLATE	[Symbol]	[Symbol]
SIGNAL HEAD, PEDESTRIAN	[Symbol]	[Symbol]
SIGNAL POST	[Symbol]	[Symbol]
MAST ARM ASSEMBLY AND POLE, STEEL	[Symbol]	[Symbol]
MAST ARM ASSEMBLY AND POLE, ALUMINUM	[Symbol]	[Symbol]
COMBINATION MAST ARM ASSEMBLY AND POLE STEEL WITH LUMINAIRE	[Symbol]	[Symbol]
UNIT DUCT	[Symbol]	[Symbol]
COMMON TRENCH	[Symbol]	[Symbol]
HANDHOLE	[Symbol]	[Symbol]
HEAVY DUTY HANDHOLE	[Symbol]	[Symbol]
DOUBLE HANDHOLE	[Symbol]	[Symbol]
G.S. CONDUIT IN GROUND	[Symbol]	[Symbol]
PEDESTRIAN PUSHBUTTON DETECTOR	[Symbol]	[Symbol]
DETECTOR LOOP	[Symbol]	[Symbol]
CAST IRON JUNCTION BOX	[Symbol]	[Symbol]
EMERGENCY VEHICLE SYSTEM DETECTOR	[Symbol]	[Symbol]
CONFIRMATION BEACON	[Symbol]	[Symbol]
SIGNAL HEAD OPTICALLY PROGRAMMED	[Symbol]	[Symbol]
CONDUIT SPLICE	[Symbol]	[Symbol]
WOOD POLE	[Symbol]	[Symbol]
RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II	[Symbol]	[Symbol]
VEHICLE DETECTOR, NON COMPENSATED MAGNETIC TYPE	[Symbol]	[Symbol]
RAILROAD CONTROL CABINET	[Symbol]	[Symbol]
TELEPHONE CONNECTION	[Symbol]	[Symbol]
ILLUMINATED SIGN, FIBER OPTIC "NO LEFT TURN"	[Symbol]	[Symbol]
ILLUMINATED SIGN, FIBER OPTIC "NO RIGHT TURN"	[Symbol]	[Symbol]

NOTES

- * 1. THIS PLAN IS FOR THE PURPOSE OF INSTALLING EMERGENCY VEHICLE PREEMPTION EQUIPMENT AS SHOWN PER PLAN INDICATED IN THE SCHEDULE OF QUANTITIES. ALL OTHER EQUIPMENT SHOWN SHALL BE DISREGARDED.
- 2. THE EXISTING EMERGENCY VEHICLE LIGHT DETECTOR AND LIGHT DETECTOR AMPLIFIER SHALL BE REMOVED AND REPLACED WITH NEW EQUIPMENT. THE EXISTING EQUIPMENT SHALL BE RETURNED TO THE VILLAGE OF HOMEWOOD.

VILLAGE OF HOMEWOOD
LOCATION NO. 72

ILLINOIS DEPARTMENT OF TRANSPORTATION

PROPOSED EMERGENCY VEHICLE PREEMPTION
WILLOW ROAD & DIXIE HIGHWAY

* PLANS MODIFIED BY
ROBINSON ENGINEERING, LTD

REVISIONS	
NAME	DATE
ADDED EV PREEMPTION	01/02/08

SCALE: VERT. _____
HORIZ. _____
DATE: _____ DRAWN BY _____
CHECKED BY _____

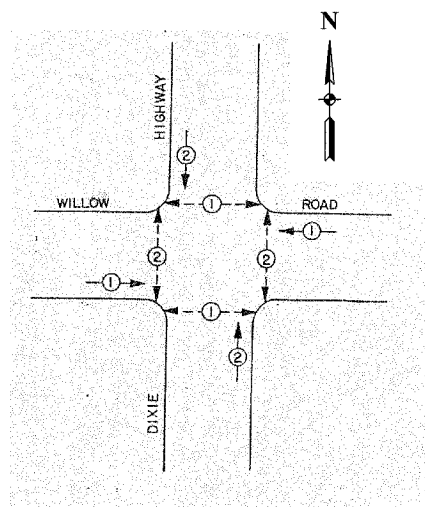
ROBINSON ENGINEERING, LTD.
1700 SOUTH PARK AVENUE SOUTH HOLLAND, ILLINOIS 60473
(708) 301-4700 FAX (708) 301-0828
ILLINOIS DESIGN FIRM REGISTRATION NO. 120021160

F. A. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00146-00-TL	COOK	273	164
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

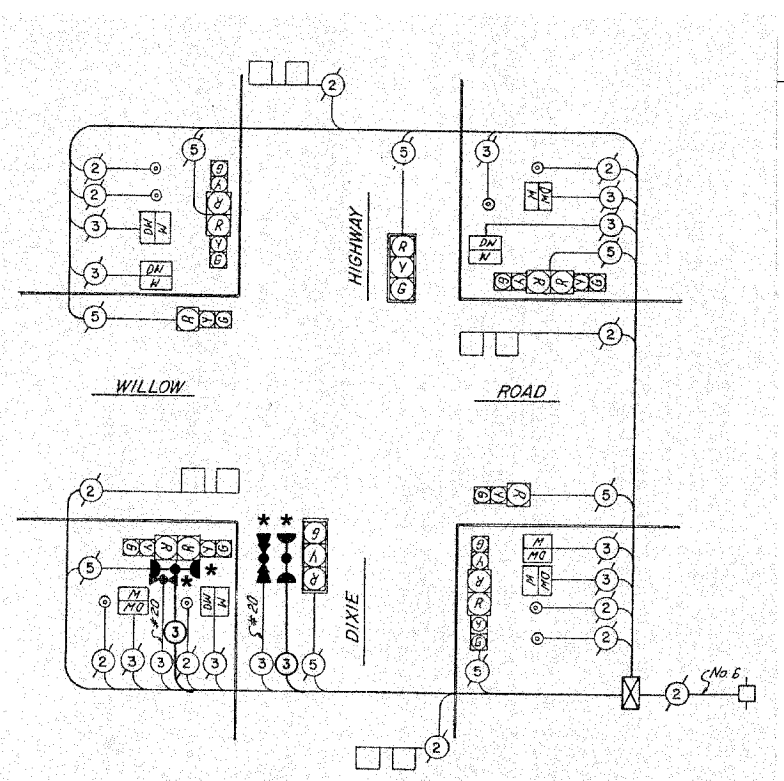
CONTRACT NO. 63003

CABLE PLAN LEGEND

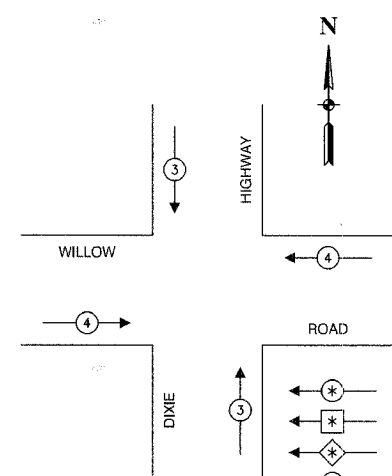
EXISTING	PROPOSED	
		8" TRAFFIC SIGNAL SECTION
		12" TRAFFIC SIGNAL SECTION
		12" PEDESTRIAN SIGNAL SECTION
		12" PEDESTRIAN SIGNAL SECTION
		CONTROLLER CABINET
		SERVICE INSTALLATION
		TELEPHONE CONNECTION
		MAGNETIC DETECTOR
		EMERGENCY VEHICLE LIGHT DETECTOR
		CONFIRMATION BEACON
		PUSHBUTTON DETECTOR
		VEHICLE DETECTOR, INDUCTION LOOP
		DENOTES NUMBER OF CONDUCTORS. ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED.
		SIGNAL FACE WITH BACKPLATE
		"P" INDICATES PROGRAMMED HEAD
		RAILROAD CONTROL CABINET
		ILLUMINATED SIGN, FIBER OPTIC "NO LEFT TURN"
		ILLUMINATED SIGN, FIBER OPTIC "NO RIGHT TURN"
		H/C GROUND ROD AT HANDHOLE, DOUBLE HANDHOLE, OR CONTROLLER
		P GROUND ROD AT POST OR MAST ARM POLE
		S GROUND ROD AT ELECTRIC SERVICE INSTALLATION



PHASE DESIGNATION DIAGRAM



CABLE PLAN



LEGEND

	DUAL ENTRY PHASE
	SINGLE ENTRY PHASE
	OVERLAP
	PEDESTRIAN PHASE
	NUMBER REFERS TO ASSOCIATED PHASE

EMERGENCY VEHICLE PREEMPTION SEQUENCE

PROPOSED EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	↑ ↓	← →

SCHEDULE OF QUANTITIES		
PAY ITEM	UNIT	QUANTITY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	305
LIGHT DETECTOR	EACH	2
LIGHT DETECTOR AMPLIFIER	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1

NOTE

* 1. THIS PLAN IS FOR THE PURPOSE OF INSTALLING EMERGENCY VEHICLE PREEMPTION EQUIPMENT AS SHOWN PER PLAN INDICATED IN THE SCHEDULE OF QUANTITIES. ALL OTHER EQUIPMENT SHOWN SHALL BE DISREGARDED.

VILLAGE OF HOMEWOOD
LOCATION NO. 72

ILLINOIS DEPARTMENT OF TRANSPORTATION

* PLANS MODIFIED BY
ROBINSON ENGINEERING, LTD

REVISIONS	
NAME	DATE
ADDED EV PREEMPTION	01/02/08

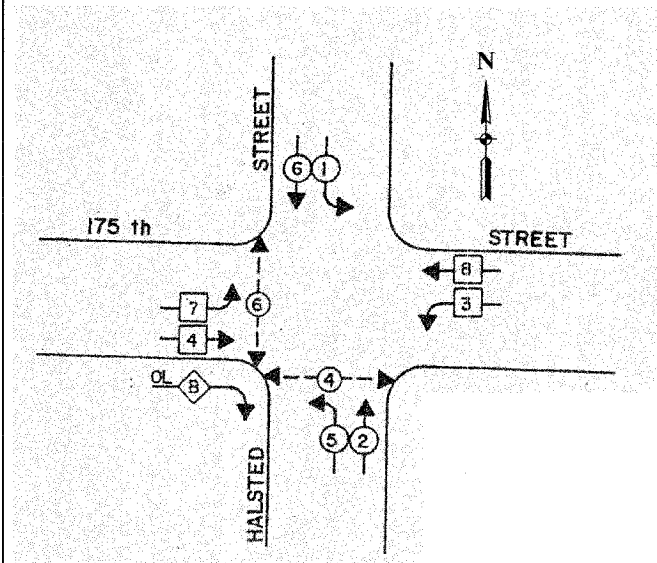
PROPOSED EMERGENCY VEHICLE PREEMPTION
CABLE PLAN, PHASE DESIGNATION DIAGRAM &
SCHEDULE OF QUANTITIES
WILLOW ROAD & DIXIE HIGHWAY

SCALE: VERT. _____
HORIZ. _____
DATE _____ DRAWN BY _____
CHECKED BY _____

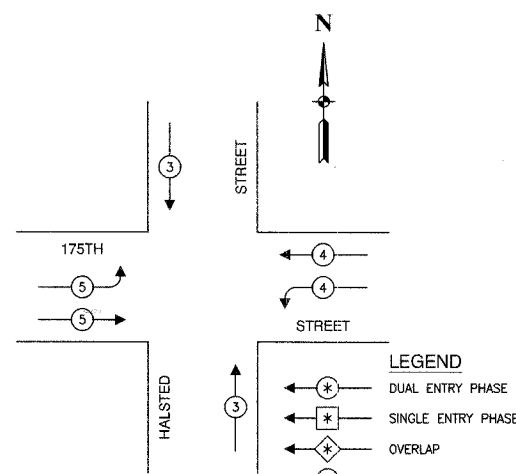
ROBINSON ENGINEERING, LTD.
17000 SOUTH PARK AVENUE SOUTH HOLLAND, ILLINOIS 60473
708.331.0200 FAX 708.331.3608
ILLINOIS DESIGN FIRM REGISTRATION NO. 164001126

F. A. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00146-00-TL	COOK	273	166
STA.		TO STA.		
FED. ROAD DIST. NO.	SLIPDS	FED. AID PROJECT		

CONTRACT NO. 63003



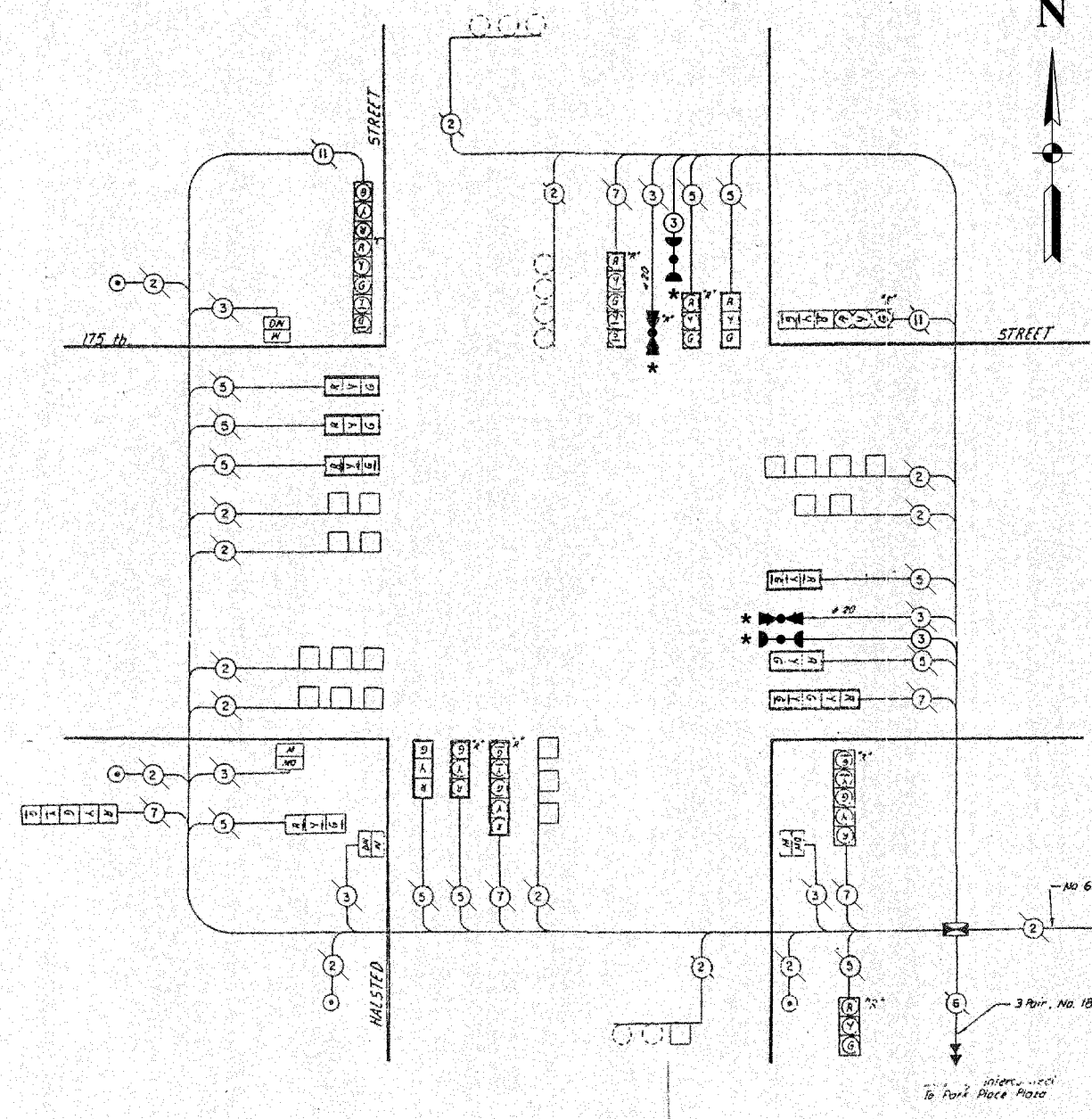
PHASE DESIGNATION DIAGRAM



LEGEND
 * DUAL ENTRY PHASE
 * SINGLE ENTRY PHASE
 * OVERLAP
 * PEDESTRIAN PHASE
 * NUMBER REFERS TO ASSOCIATED PHASE

EMERGENCY VEHICLE PREEMPTION SEQUENCE

PROPOSED EMERGENCY VEHICLE PREEMPTORS				
EMERGENCY VEHICLE PREEMPTOR	3	4	5	
MOVEMENT	↑	↓	←	→



CABLE PLAN

CABLE PLAN LEGEND

EXISTING	PROPOSED	DESCRIPTION
(G)	(G)	8" TRAFFIC SIGNAL SECTION
(R)	(R)	12" TRAFFIC SIGNAL SECTION
(W)	(W)	12" PEDESTRIAN SIGNAL SECTION
(W)	(W)	12" PEDESTRIAN SIGNAL SECTION
(C)	(C)	CONTROLLER CABINET
(S)	(S)	SERVICE INSTALLATION
(T)	(T)	TELEPHONE CONNECTION
(M)	(M)	MAGNETIC DETECTOR
(E)	(E)	EMERGENCY VEHICLE LIGHT DETECTOR
(B)	(B)	CONFIRMATION BEACON
(P)	(P)	PUSHBUTTON DETECTOR
(V)	(V)	VEHICLE DETECTOR, INDUCTION LOOP
(2)	(2)	DENOTES NUMBER OF CONDUCTORS. ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED.
(S)	(S)	SIGNAL FACE WITH BACKPLATE
(P)	(P)	"P" INDICATES PROGRAMMED HEAD
(R)	(R)	RAILROAD CONTROL CABINET
(E)	(E)	ILLUMINATED SIGN, FIBER OPTIC "NO LEFT TURN"
(E)	(E)	ILLUMINATED SIGN, FIBER OPTIC "NO RIGHT TURN"
H/C	H/C	GROUND ROD AT HANDHOLE, DOUBLE HANDHOLE, OR CONTROLLER
P	P	GROUND ROD AT POST OR MAST ARM POLE
S	S	GROUND ROD AT ELECTRIC SERVICE INSTALLATION

SCHEDULE OF QUANTITIES

PAY ITEM	UNIT	QUANTITY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	300
LIGHT DETECTOR	EACH	2
LIGHT DETECTOR AMPLIFIER	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1

NOTE

* 1. THIS PLAN IS FOR THE PURPOSE OF INSTALLING EMERGENCY VEHICLE PREEMPTION EQUIPMENT AS SHOWN PER PLAN INDICATED IN THE SCHEDULE OF QUANTITIES. ALL OTHER EQUIPMENT SHOWN SHALL BE DISREGARDED.

* PLANS MODIFIED BY ROBINSON ENGINEERING, LTD

REVISIONS

NAME	DATE
ADDED EV PREEMPTION	01/02/08

VILLAGE OF HOMEWOOD LOCATION NO. 73

ILLINOIS DEPARTMENT OF TRANSPORTATION

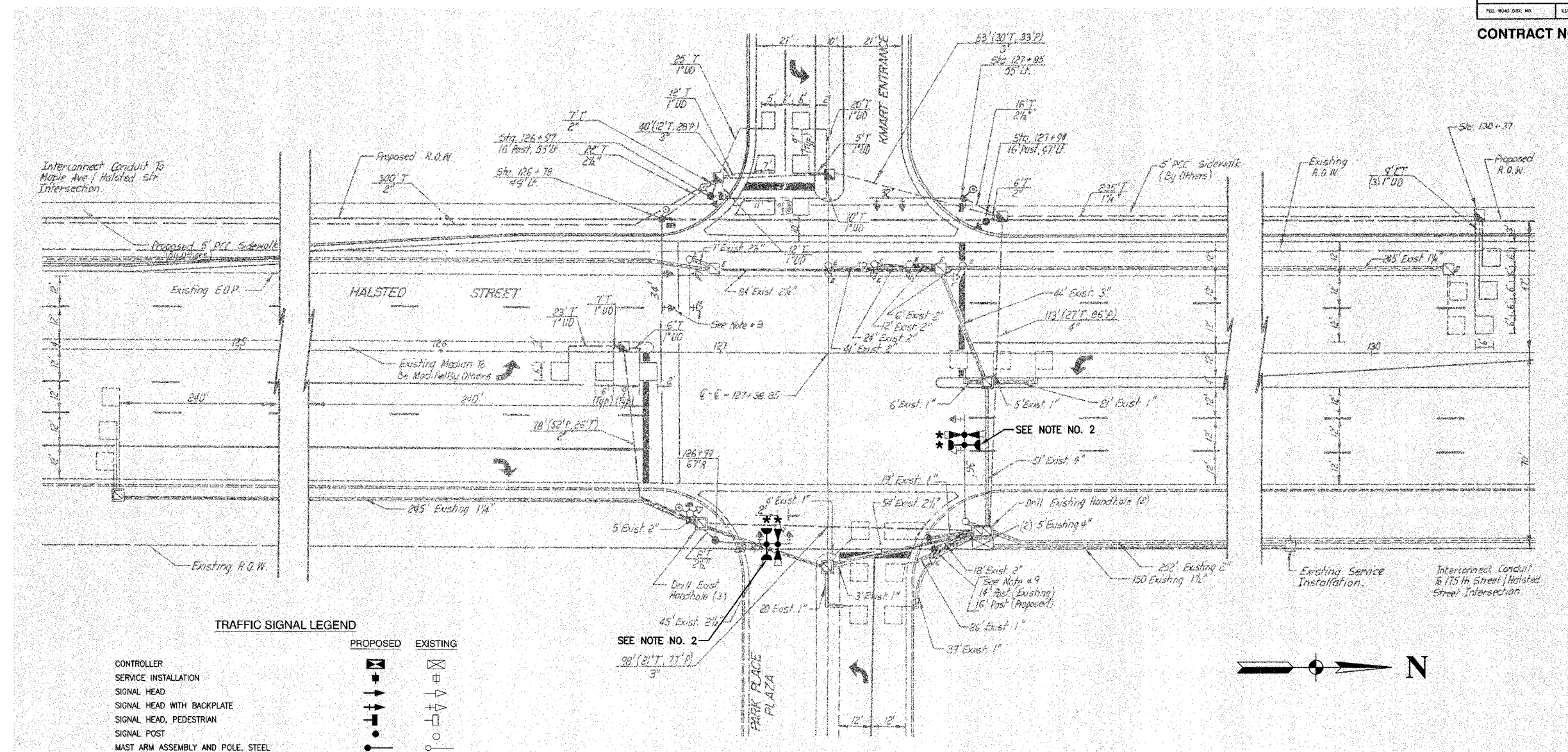
PROPOSED EMERGENCY VEHICLE PREEMPTION CABLE PLAN, PHASE DESIGNATION DIAGRAM & SCHEDULE OF QUANTITIES 175TH STREET & HALSTED STREET

SCALE: VERT. _____
 HORIZ. _____

DATE _____ DRAWN BY _____
 CHECKED BY _____

F.A. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
08-00146-00-TL	COOK	273	167	
STA.	TO STA.			
FED. ROAD DIST. NO.	LEADS	FED. AID PROJECT		

CONTRACT NO. 63003

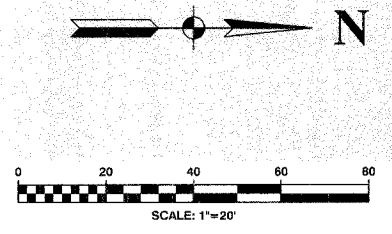


TRAFFIC SIGNAL LEGEND

	PROPOSED	EXISTING
CONTROLLER	[Symbol]	[Symbol]
SERVICE INSTALLATION	[Symbol]	[Symbol]
SIGNAL HEAD	[Symbol]	[Symbol]
SIGNAL HEAD WITH BACKPLATE	[Symbol]	[Symbol]
SIGNAL HEAD, PEDESTRIAN	[Symbol]	[Symbol]
SIGNAL POST	[Symbol]	[Symbol]
MAST ARM ASSEMBLY AND POLE, STEEL	[Symbol]	[Symbol]
MAST ARM ASSEMBLY AND POLE, ALUMINUM	[Symbol]	[Symbol]
COMBINATION MAST ARM ASSEMBLY AND POLE STEEL WITH LUMINAIRE	[Symbol]	[Symbol]
UNIT DUCT	[Symbol]	[Symbol]
COMMON TRENCH	[Symbol]	[Symbol]
HANDHOLE	[Symbol]	[Symbol]
HEAVY DUTY HANDHOLE	[Symbol]	[Symbol]
DOUBLE HANDHOLE	[Symbol]	[Symbol]
G.S. CONDUIT IN GROUND	[Symbol]	[Symbol]
PEDESTRIAN PUSHBUTTON DETECTOR	[Symbol]	[Symbol]
DETECTOR LOOP	[Symbol]	[Symbol]
CAST IRON JUNCTION BOX	[Symbol]	[Symbol]
EMERGENCY VEHICLE SYSTEM DETECTOR	[Symbol]	[Symbol]
CONFIRMATION BEACON	[Symbol]	[Symbol]
SIGNAL HEAD OPTICALLY PROGRAMMED	[Symbol]	[Symbol]
CONDUIT SPLICE	[Symbol]	[Symbol]
WOOD POLE	[Symbol]	[Symbol]
RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II	[Symbol]	[Symbol]
VEHICLE DETECTOR, NON COMPENSATED MAGNETIC TYPE	[Symbol]	[Symbol]
RAILROAD CONTROL CABINET	[Symbol]	[Symbol]
TELEPHONE CONNECTION	[Symbol]	[Symbol]
ILLUMINATED SIGN, FIBER OPTIC "NO LEFT TURN"	[Symbol]	[Symbol]
ILLUMINATED SIGN, FIBER OPTIC "NO RIGHT TURN"	[Symbol]	[Symbol]

NOTES

- * 1. THIS PLAN IS FOR THE PURPOSE OF INSTALLING EMERGENCY VEHICLE PREEMPTION EQUIPMENT AS SHOWN PER PLAN INDICATED IN THE SCHEDULE OF QUANTITIES. ALL OTHER EQUIPMENT SHOWN SHALL BE DISREGARDED.
- 2. THE EXISTING EMERGENCY VEHICLE LIGHT DETECTOR AND LIGHT DETECTOR AMPLIFIER SHALL BE REMOVED AND REPLACED WITH NEW EQUIPMENT. THE EXISTING EQUIPMENT SHALL BE RETURNED TO THE VILLAGE OF HOMEWOOD.



VILLAGE OF HOMEWOOD
LOCATION NO. 74

* PLANS MODIFIED BY
ROBINSON ENGINEERING, LTD

REVISIONS	
NAME	DATE
* ADDED EV PREEMPTION	01/02/08

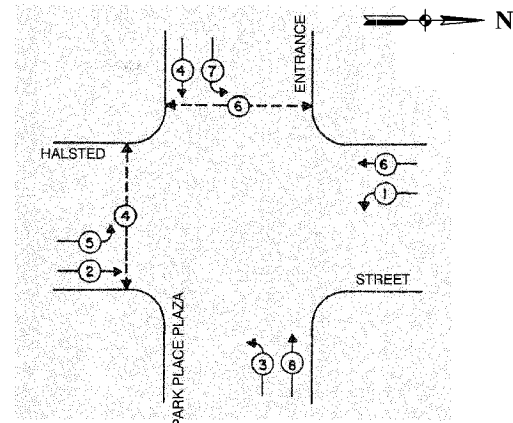
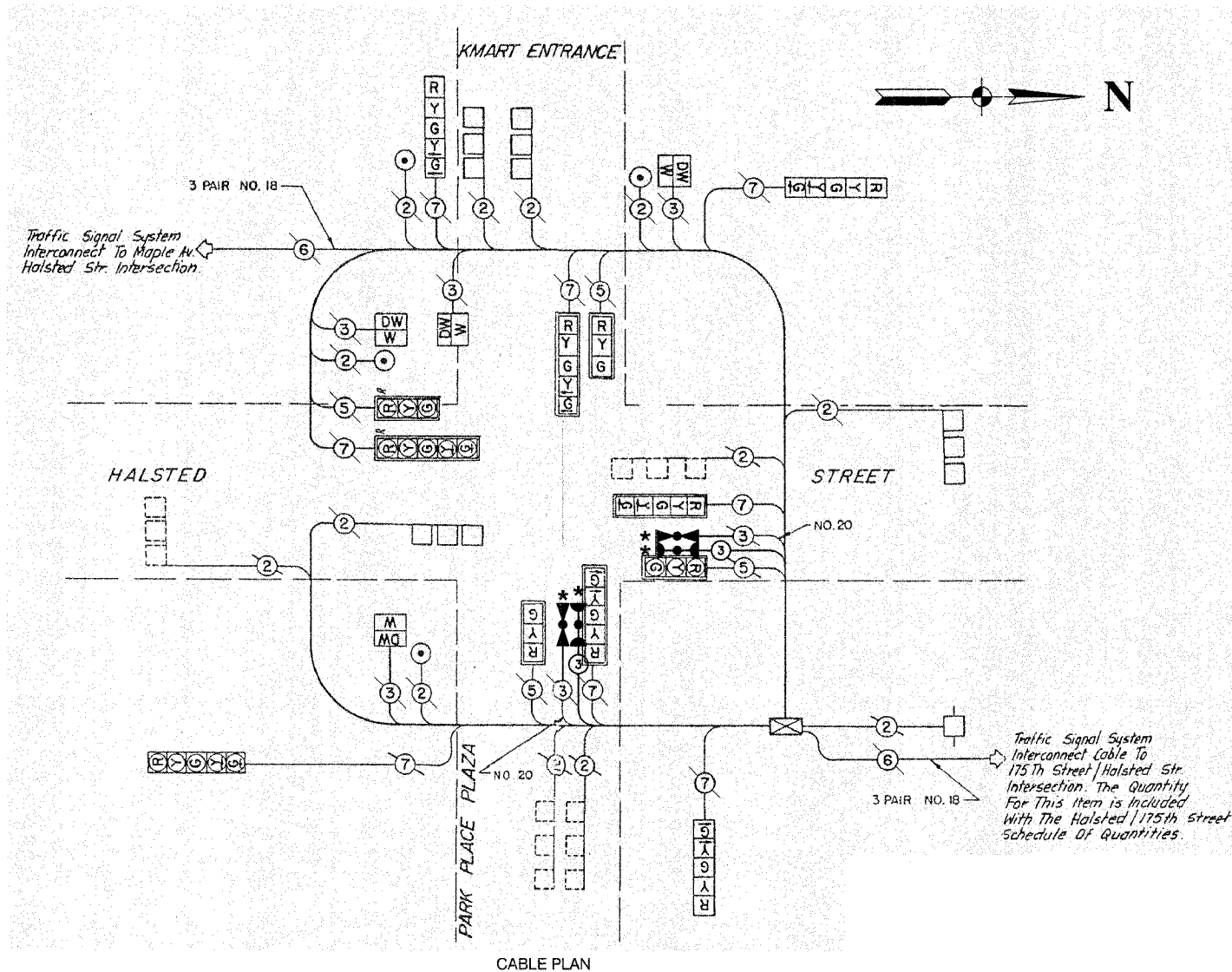
ILLINOIS DEPARTMENT OF TRANSPORTATION	
PROPOSED EMERGENCY VEHICLE PREEMPTION 176TH STREET & HALSTED STREET	
SCALE:	VERT. DATE
HORIZ.	DRAWN BY
CHECKED BY	

F. A. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
08-00146-00-TL		COOK	273	188
STA.	TO STA.			
FED. ROAD DIST. NO.	LANDS	FED. RD PROJECT		

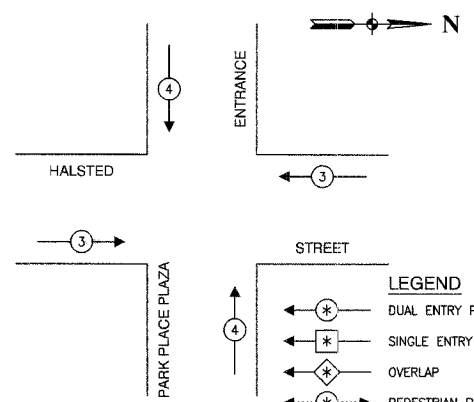
CONTRACT NO. 63003

CABLE PLAN LEGEND

- | | | |
|-----------------|-----------------|---|
| EXISTING | PROPOSED | |
| | | 8" TRAFFIC SIGNAL SECTION |
| | | 12" TRAFFIC SIGNAL SECTION |
| | | 12" PEDESTRIAN SIGNAL SECTION |
| | | 12" PEDESTRIAN SIGNAL SECTION |
| | | CONTROLLER CABINET |
| | | SERVICE INSTALLATION |
| | | TELEPHONE CONNECTION |
| | | MAGNETIC DETECTOR |
| | | EMERGENCY VEHICLE LIGHT DETECTOR |
| | | CONFIRMATION BEACON |
| | | PUSHBUTTON DETECTOR |
| | | VEHICLE DETECTOR, INDUCTION LOOP |
| | | DENOTES NUMBER OF CONDUCTORS. ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED. |
| | | SIGNAL FACE WITH BACKPLATE |
| | | "P" INDICATES PROGRAMMED HEAD |
| | | RAILROAD CONTROL CABINET |
| | | ILLUMINATED SIGN, FIBER OPTIC "NO LEFT TURN" |
| | | ILLUMINATED SIGN, FIBER OPTIC "NO RIGHT TURN" |
| H/C | H/C | GROUND ROD AT HANDHOLE, DOUBLE HANDHOLE, OR CONTROLLER |
| P | P | GROUND ROD AT POST OR MAST ARM POLE |
| S | S | GROUND ROD AT ELECTRIC SERVICE INSTALLATION |



PHASE DESIGNATION DIAGRAM



EMERGENCY VEHICLE PREEMPTION SEQUENCE

PROPOSED EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	← →	↑ ↓

SCHEDULE OF QUANTITIES		
PAY ITEM	UNIT	QUANTITY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	278
LIGHT DETECTOR	EACH	2
LIGHT DETECTOR AMPLIFIER	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1

NOTE
 * 1. THIS PLAN IS FOR THE PURPOSE OF INSTALLING EMERGENCY VEHICLE PREEMPTION EQUIPMENT AS SHOWN PER PLAN INDICATED IN THE SCHEDULE OF QUANTITIES. ALL OTHER EQUIPMENT SHOWN SHALL BE DISREGARDED.

* PLANS MODIFIED BY ROBINSON ENGINEERING, LTD

REVISIONS	
NAME	DATE
* ADDED EV PREEMPTION	01/02/08

VILLAGE OF HOMEWOOD
 LOCATION NO. 74

ILLINOIS DEPARTMENT OF TRANSPORTATION

PROPOSED EMERGENCY VEHICLE PREEMPTION
 CABLE PLAN, PHASE DESIGNATION DIAGRAM &
 SCHEDULE OF QUANTITIES
 176TH STREET & HALSTED STREET

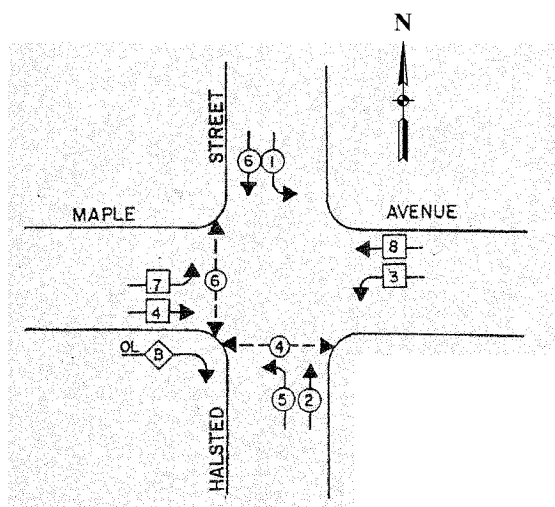
SCALE: VERT. _____ DRAWN BY _____
 HORIZ. _____ CHECKED BY _____
 DATE _____

ROBINSON ENGINEERING, LTD.
 1700 SOUTH PARK AVENUE SOUTH HOLLAND, ILLINOIS 60473
 (708) 321-8700 FAX (708) 321-3825
 ILLINOIS DESIGN FIRM REGISTRATION NO. 196001105

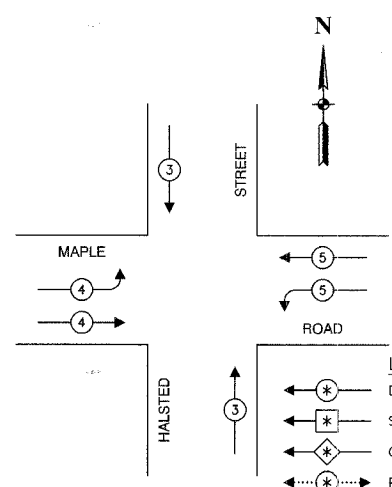
07248-124

F. A. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00146-00-TL	COOK	273	170
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 63003



PHASE DESIGNATION DIAGRAM

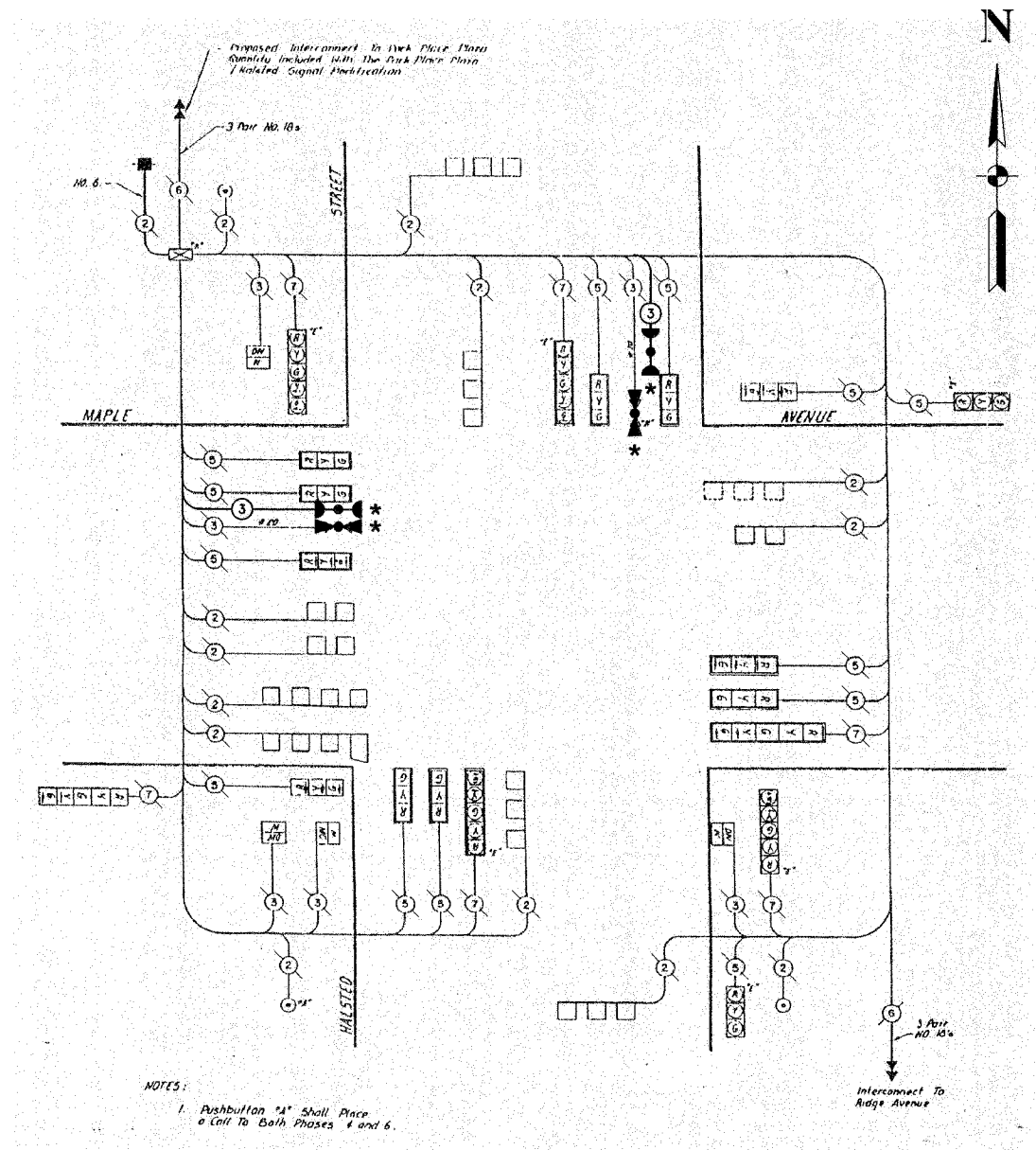


EMERGENCY VEHICLE PREEMPTION SEQUENCE

PROPOSED EMERGENCY VEHICLE PREEMPTORS				
EMERGENCY VEHICLE PREEMPTOR	3	4	5	
MOVEMENT	↑	↓	→	←

LEGEND

⊙	DUAL ENTRY PHASE
⊠	SINGLE ENTRY PHASE
⊠	OVERLAP
⊙	PEDESTRIAN PHASE
*	NUMBER REFERS TO ASSOCIATED PHASE



CABLE PLAN

NOTES:
1. Pushbutton "A" Shall Place a Call To Both Phases 4 and 6.

SCHEDULE OF QUANTITIES		
PAY ITEM	UNIT	QUANTITY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	304
LIGHT DETECTOR	EACH	2
LIGHT DETECTOR AMPLIFIER	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1

NOTE
* 1. THIS PLAN IS FOR THE PURPOSE OF INSTALLING EMERGENCY VEHICLE PREEMPTION EQUIPMENT AS SHOWN PER PLAN INDICATED IN THE SCHEDULE OF QUANTITIES. ALL OTHER EQUIPMENT SHOWN SHALL BE DISREGARDED.

CABLE PLAN LEGEND

EXISTING	PROPOSED	
⊙	⊙	8" TRAFFIC SIGNAL SECTION
⊠	⊠	12" TRAFFIC SIGNAL SECTION
⊠	⊠	12" PEDESTRIAN SIGNAL SECTION
⊠	⊠	12" PEDESTRIAN SIGNAL SECTION
⊠	⊠	CONTROLLER CABINET
⊠	⊠	SERVICE INSTALLATION
⊠	⊠	TELEPHONE CONNECTION
⊠	⊠	MAGNETIC DETECTOR
⊠	⊠	EMERGENCY VEHICLE LIGHT DETECTOR
⊠	⊠	CONFIRMATION BEACON
⊠	⊠	PUSHBUTTON DETECTOR
⊠	⊠	VEHICLE DETECTOR, INDUCTION LOOP
⊠	⊠	DENOTES NUMBER OF CONDUCTORS. ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED.
⊠	⊠	SIGNAL FACE WITH BACKPLATE
⊠	⊠	"P" INDICATES PROGRAMMED HEAD
⊠	⊠	RAILROAD CONTROL CABINET
⊠	⊠	ILLUMINATED SIGN, FIBER OPTIC "NO LEFT TURN"
⊠	⊠	ILLUMINATED SIGN, FIBER OPTIC "NO RIGHT TURN"
H/C	H/C	GROUND ROD AT HANDHOLE, DOUBLE HANDHOLE, OR CONTROLLER
P	P	GROUND ROD AT POST OR MAST ARM POLE
S	S	GROUND ROD AT ELECTRIC SERVICE INSTALLATION

VILLAGE OF HOMEWOOD
LOCATION NO. 75

ILLINOIS DEPARTMENT OF TRANSPORTATION

PROPOSED EMERGENCY VEHICLE PREEMPTION
CABLE PLAN, PHASE DESIGNATION DIAGRAM &
SCHEDULE OF QUANTITIES
HALSTED STREET & MAPLE ROAD

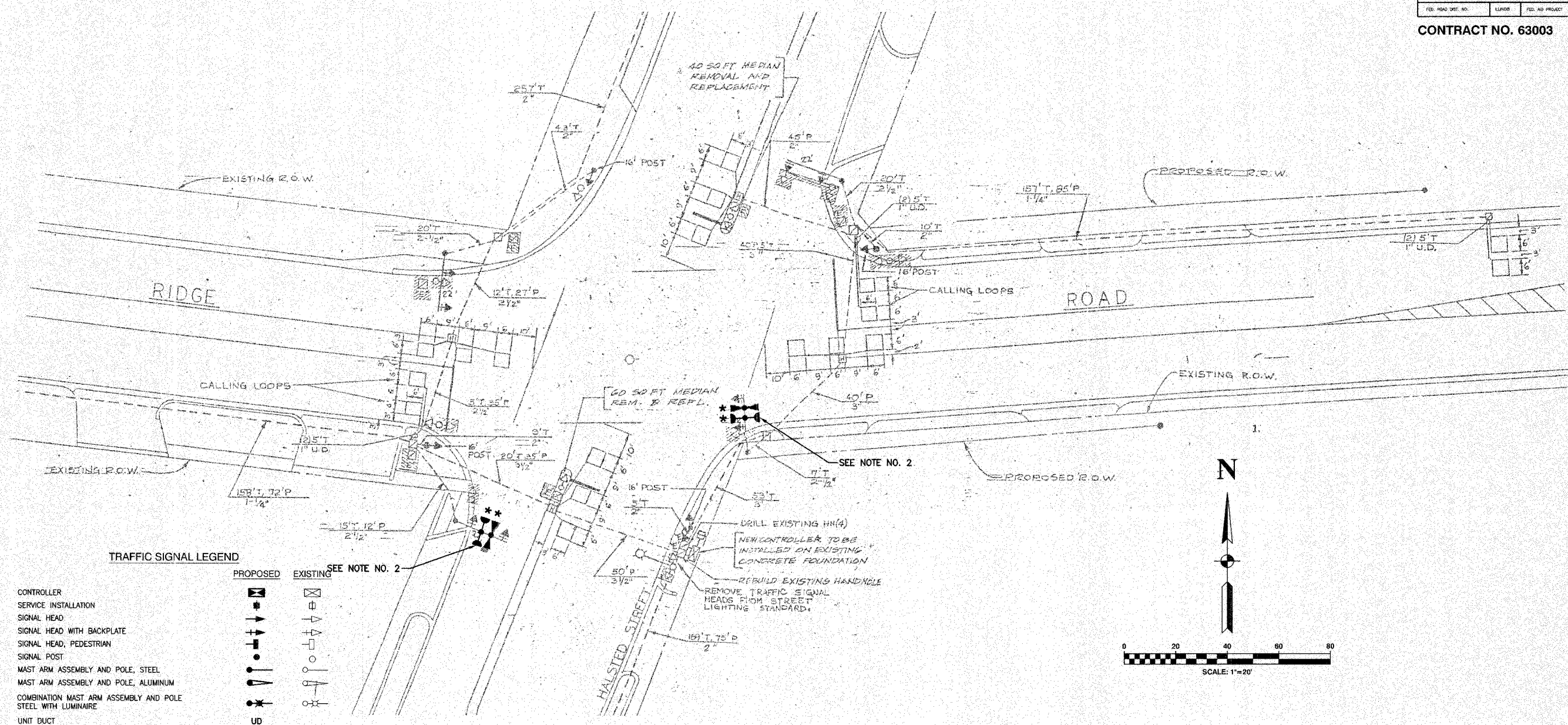
* PLANS MODIFIED BY
ROBINSON ENGINEERING, LTD.

REVISIONS	
NAME	DATE
ADDED EV PREEMPTION	01/02/08

SCALE: VERT. _____
HORIZ. _____
DATE _____ DRAWN BY _____
CHECKED BY _____

SECTION	COUNTY	WORK SHEETS	SHEET NO.
08-00146-00-TL	COOK	273	171
STA.	TO STA.		
FED. ROAD DIST. NO.	ALIGNED	FED. AID PROJECT	

CONTRACT NO. 63003



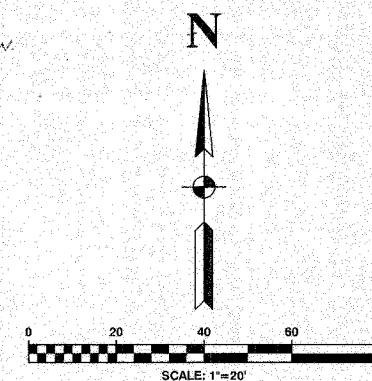
TRAFFIC SIGNAL LEGEND

	PROPOSED	EXISTING
CONTROLLER	[Symbol]	[Symbol]
SERVICE INSTALLATION	[Symbol]	[Symbol]
SIGNAL HEAD	[Symbol]	[Symbol]
SIGNAL HEAD WITH BACKPLATE	[Symbol]	[Symbol]
SIGNAL HEAD, PEDESTRIAN	[Symbol]	[Symbol]
SIGNAL POST	[Symbol]	[Symbol]
MAST ARM ASSEMBLY AND POLE, STEEL	[Symbol]	[Symbol]
MAST ARM ASSEMBLY AND POLE, ALUMINUM	[Symbol]	[Symbol]
COMBINATION MAST ARM ASSEMBLY AND POLE STEEL WITH LUMINAIRE	[Symbol]	[Symbol]
UNIT DUCT	[Symbol]	[Symbol]
COMMON TRENCH	[Symbol]	[Symbol]
HANDHOLE	[Symbol]	[Symbol]
HEAVY DUTY HANDHOLE	[Symbol]	[Symbol]
DOUBLE HANDHOLE	[Symbol]	[Symbol]
G.S. CONDUIT IN GROUND	[Symbol]	[Symbol]
PEDESTRIAN PUSHBUTTON DETECTOR	[Symbol]	[Symbol]
DETECTOR LOOP	[Symbol]	[Symbol]
CAST IRON JUNCTION BOX	[Symbol]	[Symbol]
EMERGENCY VEHICLE SYSTEM DETECTOR	[Symbol]	[Symbol]
CONFIRMATION BEACON	[Symbol]	[Symbol]
SIGNAL HEAD OPTICALLY PROGRAMMED	[Symbol]	[Symbol]
CONDUIT SPLICE	[Symbol]	[Symbol]
WOOD POLE	[Symbol]	[Symbol]
RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II	[Symbol]	[Symbol]
VEHICLE DETECTOR, NON COMPENSATED MAGNETIC TYPE	[Symbol]	[Symbol]
RAILROAD CONTROL CABINET	[Symbol]	[Symbol]
TELEPHONE CONNECTION	[Symbol]	[Symbol]
ILLUMINATED SIGN, FIBER OPTIC "NO LEFT TURN"	[Symbol]	[Symbol]
ILLUMINATED SIGN, FIBER OPTIC "NO RIGHT TURN"	[Symbol]	[Symbol]

NOTES

* 1. THIS PLAN IS FOR THE PURPOSE OF INSTALLING EMERGENCY VEHICLE PREEMPTION EQUIPMENT AS SHOWN PER PLAN INDICATED IN THE SCHEDULE OF QUANTITIES. ALL OTHER EQUIPMENT SHOWN SHALL BE DISREGARDED.

2. THE EXISTING EMERGENCY VEHICLE LIGHT DETECTOR AND LIGHT DETECTOR AMPLIFIER SHALL BE REMOVED AND REPLACED WITH NEW EQUIPMENT. THE EXISTING EQUIPMENT SHALL BE RETURNED TO THE VILLAGE OF HOMEWOOD.



**VILLAGE OF HOMEWOOD
LOCATION NO. 76**

ILLINOIS DEPARTMENT OF TRANSPORTATION

**PROPOSED EMERGENCY VEHICLE PREEMPTION
HALSTED STREET & RIDGE ROAD**

* PLANS MODIFIED BY
ROBINSON ENGINEERING, LTD

REVISIONS	
NAME	DATE
* ADDED EV PREEMPTION	01/02/08

SCALE: VERT. _____
HORIZ. _____
DATE _____ DRAWN BY _____
CHECKED BY _____

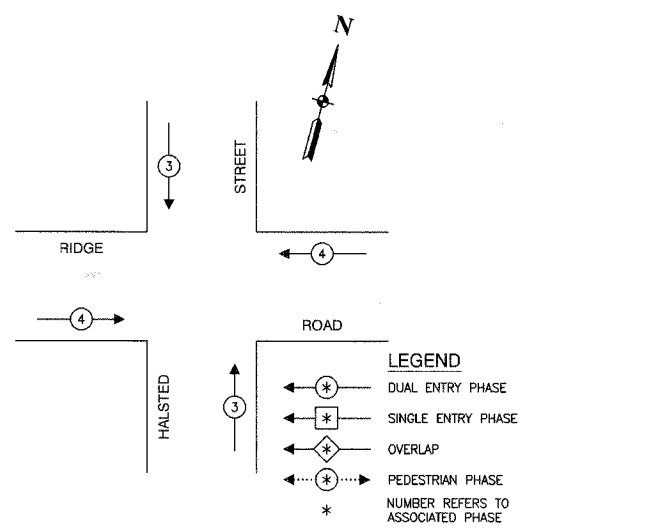
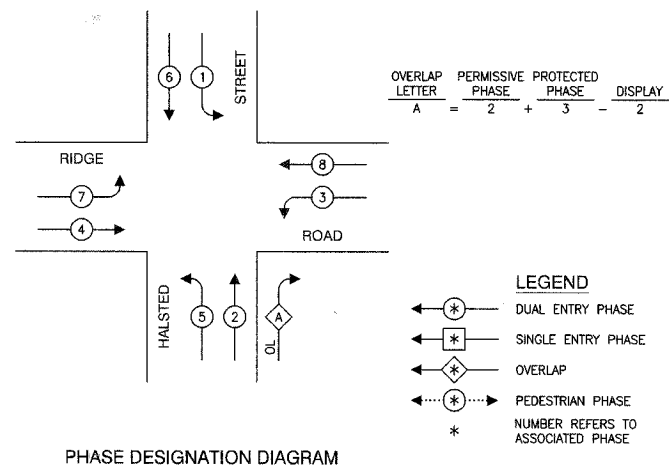
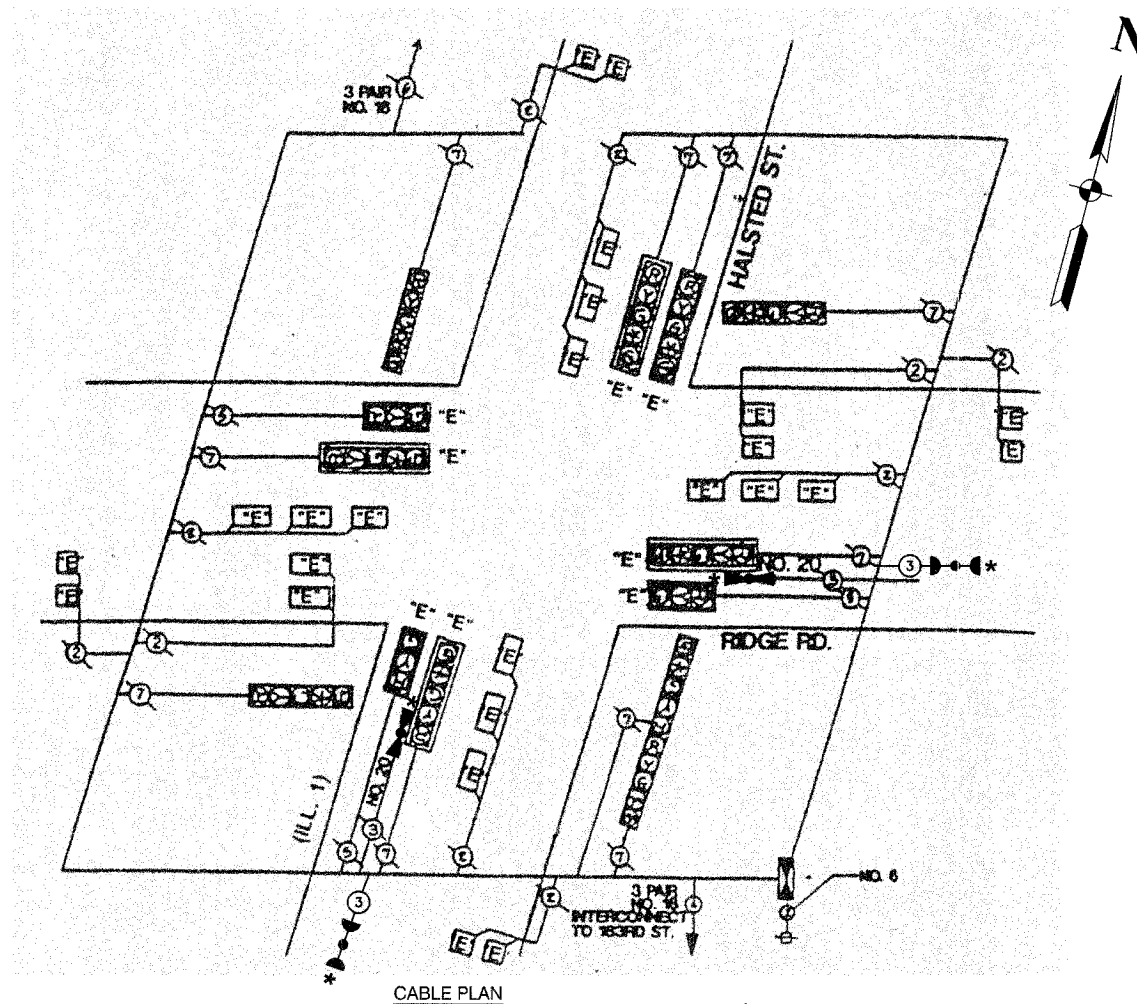
ROBINSON ENGINEERING, LTD.
17000 SOUTH PARK AVENUE SOUTH HOLLAND, ILLINOIS 60473
708.321.8100 FAX 708.321-8248
ILLINOIS DESIGN FIRM REGISTRATION NO. 184001123

F. A. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00146-00-TL	COOK	273	172
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 63003

CABLE PLAN LEGEND

EXISTING	PROPOSED	
		8" TRAFFIC SIGNAL SECTION
		12" TRAFFIC SIGNAL SECTION
		12" PEDESTRIAN SIGNAL SECTION
		12" PEDESTRIAN SIGNAL SECTION
		CONTROLLER CABINET
		SERVICE INSTALLATION
		TELEPHONE CONNECTION
		MAGNETIC DETECTOR
		EMERGENCY VEHICLE LIGHT DETECTOR
		CONFIRMATION BEACON
		PUSHBUTTON DETECTOR
		VEHICLE DETECTOR, INDUCTION LOOP
		2 DENOTES NUMBER OF CONDUCTORS. ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED.
		SIGNAL FACE WITH BACKPLATE "P" INDICATES PROGRAMMED HEAD
		RAILROAD CONTROL CABINET
		ILLUMINATED SIGN, FIBER OPTIC "NO LEFT TURN"
		ILLUMINATED SIGN, FIBER OPTIC "NO RIGHT TURN"
H/C	H/C	GROUND ROD AT HANDHOLE, DOUBLE HANDHOLE, OR CONTROLLER
P	P	GROUND ROD AT POST OR MAST ARM POLE
S	S	GROUND ROD AT ELECTRIC SERVICE INSTALLATION



SCHEDULE OF QUANTITIES		
PAY ITEM	UNIT	QUANTITY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	341
LIGHT DETECTOR	EACH	2
LIGHT DETECTOR AMPLIFIER	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1

NOTE
 * 1. THIS PLAN IS FOR THE PURPOSE OF INSTALLING EMERGENCY VEHICLE PREEMPTION EQUIPMENT AS SHOWN PER PLAN INDICATED IN THE SCHEDULE OF QUANTITIES. ALL OTHER EQUIPMENT SHOWN SHALL BE DISREGARDED.

* PLANS MODIFIED BY
 ROBINSON ENGINEERING, LTD

REVISIONS	
NAME	DATE
* ADDED EV PREEMPTION	01/02/08

ILLINOIS DEPARTMENT OF TRANSPORTATION
 VILLAGE OF HOMEWOOD
 LOCATION NO. 76

PROPOSED EMERGENCY VEHICLE PREEMPTION
 CABLE PLAN, PHASE DESIGNATION DIAGRAM &
 SCHEDULE OF QUANTITIES
 HALSTED STREET & RIDGE ROAD

SCALE: VERT. _____
 HORIZ. _____

DATE _____ DRAWN BY _____
 CHECKED BY _____

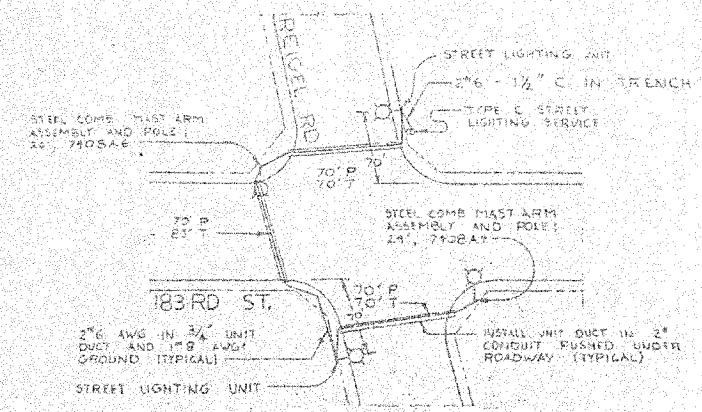
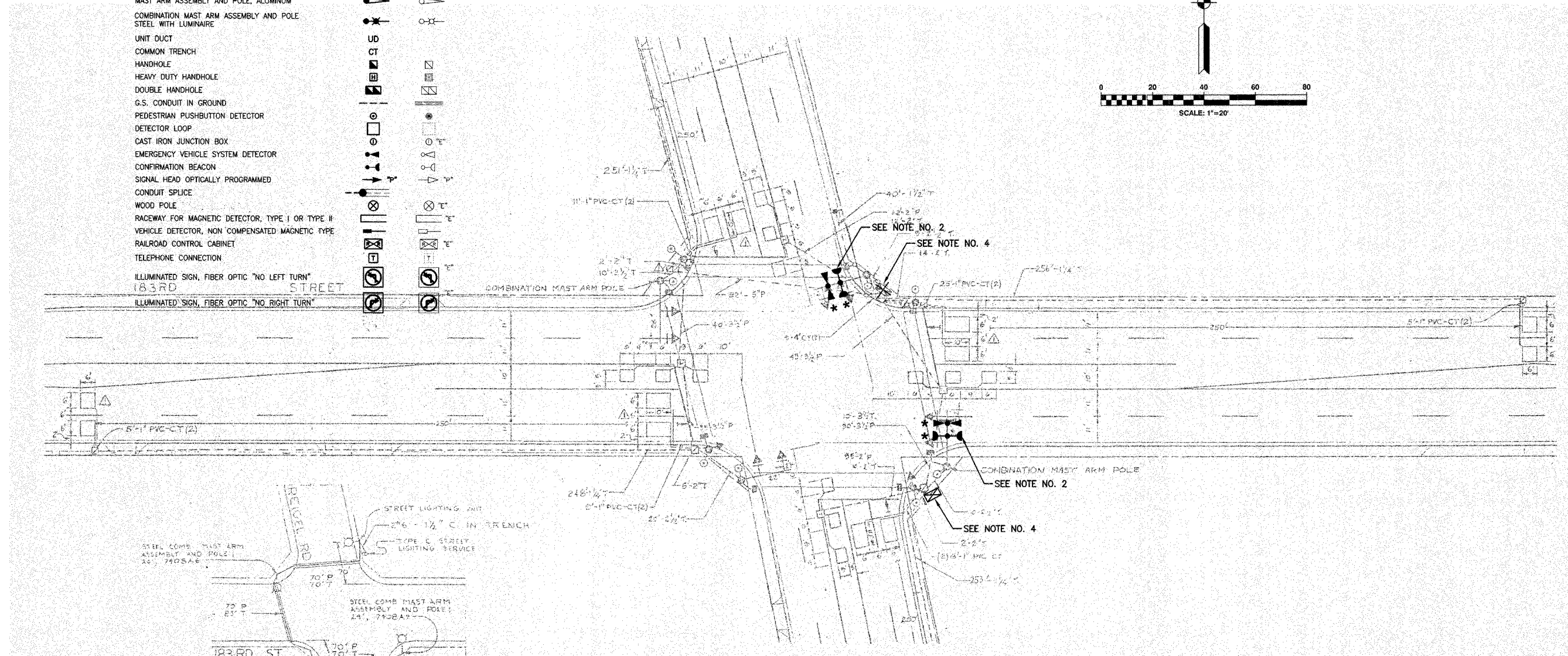
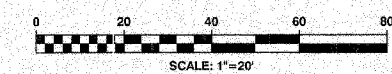
F. A. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00146-00-TL	COOK	273	173
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 63003

TRAFFIC SIGNAL LEGEND

	PROPOSED	EXISTING
CONTROLLER		
SERVICE INSTALLATION		
SIGNAL HEAD		
SIGNAL HEAD WITH BACKPLATE		
SIGNAL HEAD, PEDESTRIAN		
SIGNAL POST		
MAST ARM ASSEMBLY AND POLE, STEEL		
MAST ARM ASSEMBLY AND POLE, ALUMINUM		
COMBINATION MAST ARM ASSEMBLY AND POLE STEEL WITH LUMINAIRE		
UNIT DUCT		
COMMON TRENCH		
HANDHOLE		
HEAVY DUTY HANDHOLE		
DOUBLE HANDHOLE		
G.S. CONDUIT IN GROUND		
PEDESTRIAN PUSHBUTTON DETECTOR		
DETECTOR LOOP		
CAST IRON JUNCTION BOX		
EMERGENCY VEHICLE SYSTEM DETECTOR		
CONFIRMATION BEACON		
SIGNAL HEAD OPTICALLY PROGRAMMED		
CONDUIT SPLICE		
WOOD POLE		
RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II		
VEHICLE DETECTOR, NON COMPENSATED MAGNETIC TYPE		
RAILROAD CONTROL CABINET		
TELEPHONE CONNECTION		
ILLUMINATED SIGN, FIBER OPTIC "NO LEFT TURN"		
ILLUMINATED SIGN, FIBER OPTIC "NO RIGHT TURN"		

N



NOTES

- THIS PLAN IS FOR THE PURPOSE OF INSTALLING EMERGENCY VEHICLE PREEMPTION EQUIPMENT AS SHOWN PER PLAN INDICATED IN THE SCHEDULE OF QUANTITIES. ALL OTHER EQUIPMENT SHOWN SHALL BE DISREGARDED.
 - THE EXISTING EMERGENCY VEHICLE LIGHT DETECTOR AND LIGHT DETECTOR AMPLIFIER SHALL BE REMOVED AND REPLACED WITH NEW EQUIPMENT. THE EXISTING EQUIPMENT SHALL BE RETURNED TO THE VILLAGE OF HOMEWOOD.
 - PLANS RECEIVED FROM THE ILLINOIS DEPARTMENT OF TRANSPORTATION. UPON FIELD VERIFICATION, THE TRAFFIC SIGNAL CONTROLLER CABINET HAS BEEN MOVED TO THE LOCATION INDICATED IN THE SIGNAL PLAN.
 - THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SHALL REMAIN THE PROPERTY OF IDOT, AND SHALL BE STORED AS STATED IN THE SPECIAL PROVISION FOR PICK UP BY THE IDOT FORCES AS DESIGNATED BY ENGINEER.
- CONTROLLER EACH 1
- THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS INTERSECTION SHALL BE ECONOLITE TO MATCH EXISTING OR ADJACENT SYSTEM.

VILLAGE OF HOMEWOOD
LOCATION NO. 77

ILLINOIS DEPARTMENT OF TRANSPORTATION

PROPOSED EMERGENCY VEHICLE PREEMPTION
183RD STREET & RIEGEL ROAD

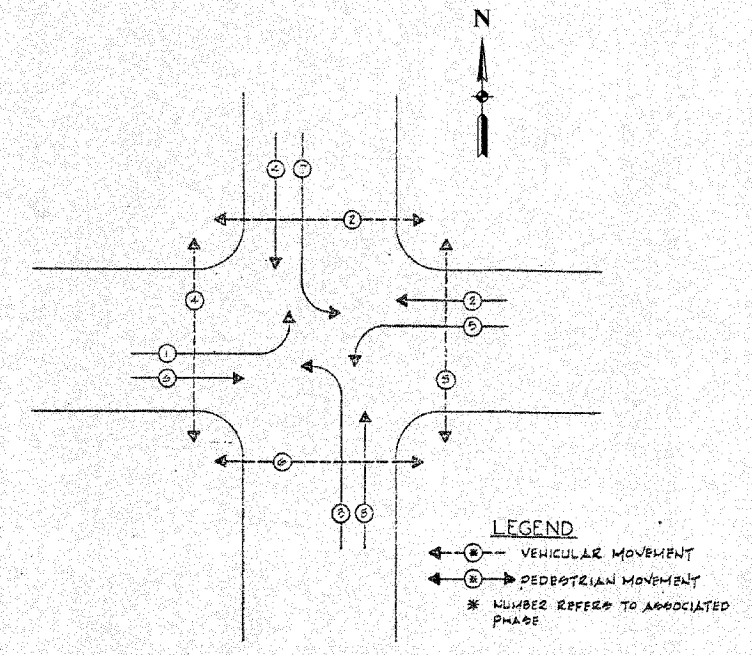
* PLANS MODIFIED BY
ROBINSON ENGINEERING, LTD

REVISIONS	
NAME	DATE
ADDED EV PREEMPTION	01/02/08
ADDED NEW CONTROLLER	

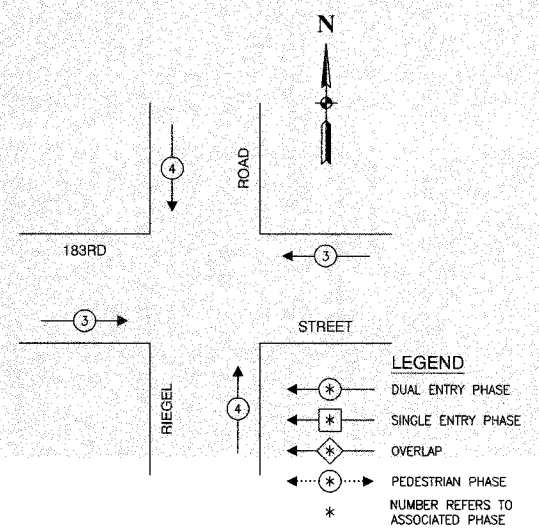
SCALE: VERT. _____
HORIZ. _____
DATE _____ DRAWN BY _____
CHECKED BY _____

F.A. ETC.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00146-00-TL	COOK	273	174
STA.		TO STA.		
FED. ROAD DIST. NO.	LINNOB	FED. AID PROJECT		

CONTRACT NO. 63003

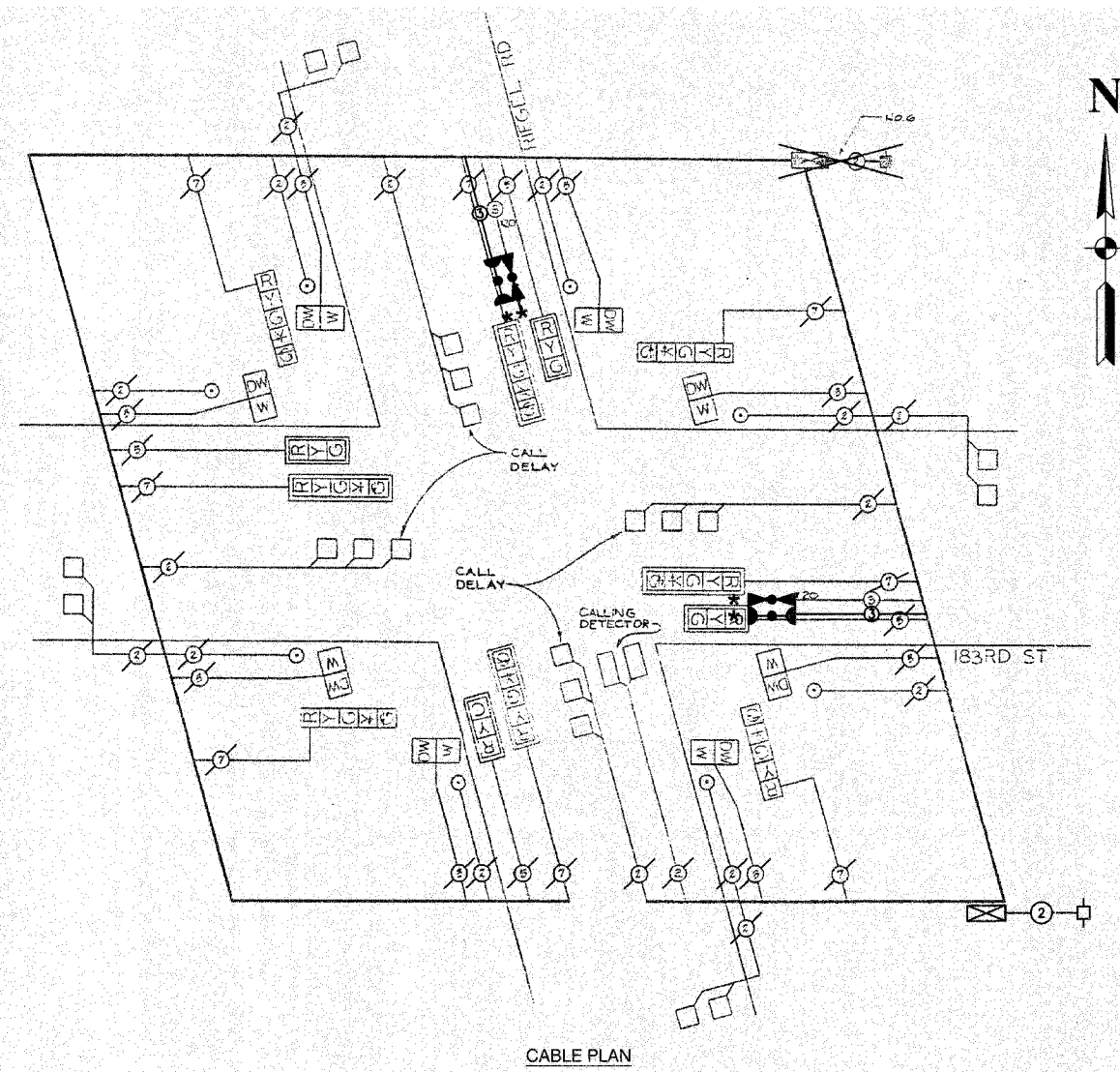


PHASE DESIGNATION DIAGRAM
STANDARD SEQUENCE IV



EMERGENCY VEHICLE PREEMPTION SEQUENCE

PROPOSED EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	← →	↑ ↓



CABLE PLAN

SCHEDULE OF QUANTITIES		
PAY ITEM	UNIT	QUANTITY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
FULL-ACTUATED CONTROLLER IN EXISTING CABINET, SPECIAL	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	265
LIGHT DETECTOR	EACH	2
LIGHT DETECTOR AMPLIFIER	EACH	1
MODIFY EXISTING CONTROLLER	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1

NOTE
* 1. THIS PLAN IS FOR THE PURPOSE OF INSTALLING EMERGENCY VEHICLE PREEMPTION EQUIPMENT AS SHOWN PER PLAN INDICATED IN THE SCHEDULE OF QUANTITIES. ALL OTHER EQUIPMENT SHOWN SHALL BE DISREGARDED.

CABLE PLAN LEGEND	
EXISTING	PROPOSED
	8" TRAFFIC SIGNAL SECTION
	12" TRAFFIC SIGNAL SECTION
	12" PEDESTRIAN SIGNAL SECTION
	CONTROLLER CABINET
	SERVICE INSTALLATION
	TELEPHONE CONNECTION
	MAGNETIC DETECTOR
	EMERGENCY VEHICLE LIGHT DETECTOR
	CONFIRMATION BEACON
	PUSHBUTTON DETECTOR
	VEHICLE DETECTOR, INDUCTION LOOP
	DENOTES NUMBER OF CONDUCTORS. ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED.
	SIGNAL FACE WITH BACKPLATE
	"P" INDICATES PROGRAMMED HEAD
	RAILROAD CONTROL CABINET
	ILLUMINATED SIGN, FIBER OPTIC "NO LEFT TURN"
	ILLUMINATED SIGN, FIBER OPTIC "NO RIGHT TURN"
	H/C GROUND ROD AT HANDHOLE, DOUBLE HANDHOLE, OR CONTROLLER
	P GROUND ROD AT POST OR MAST ARM POLE
	S GROUND ROD AT ELECTRIC SERVICE INSTALLATION

VILLAGE OF HOMEWOOD
LOCATION NO. 77

* PLANS MODIFIED BY
ROBINSON ENGINEERING, LTD

REVISIONS	
NAME	DATE
ADDED EV PREEMPTION	01/02/08

ILLINOIS DEPARTMENT OF TRANSPORTATION
**PROPOSED EMERGENCY VEHICLE PREEMPTION
CABLE PLAN, PHASE DESIGNATION DIAGRAM &
SCHEDULE OF QUANTITIES
183RD STREET & RIEGEL ROAD**

SCALE: VERT. _____
 HORIZ. _____

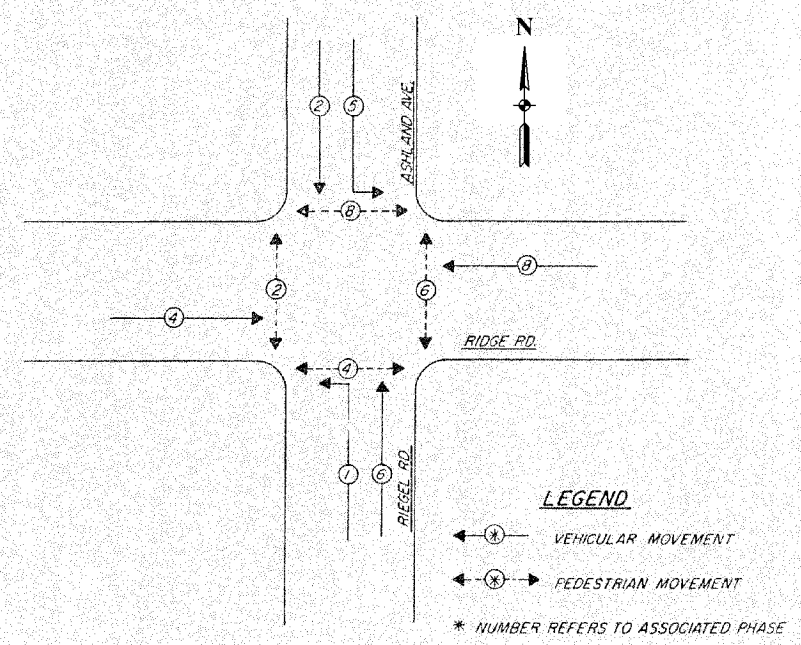
DRAWN BY _____
CHECKED BY _____

F. A. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00146-00-TL	COOK	273	176
STA.		TO STA.		
FED. ROAD DIST. NO.	ALINOS	FED. AID PROJECT		

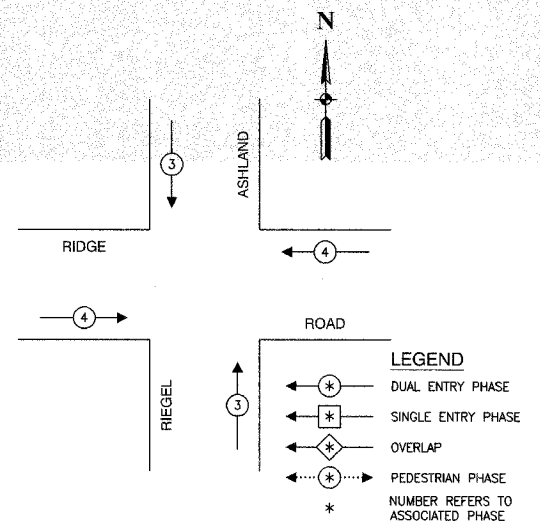
CONTRACT NO. 63003

RIDGE RD. & RIEGEL RD. - ASHLAND AVE.
 CONTROLLER SPECIFIED - FULL ACTUATED CONTROLLER, STANDARD SEQUENCE IV, 6 PHASE, IN TYPE IX CABINET

REFERRING TO STANDARD 2393, THE VEHICULAR AND PEDESTRIAN PHASES USED ARE DESIGNATED BELOW:

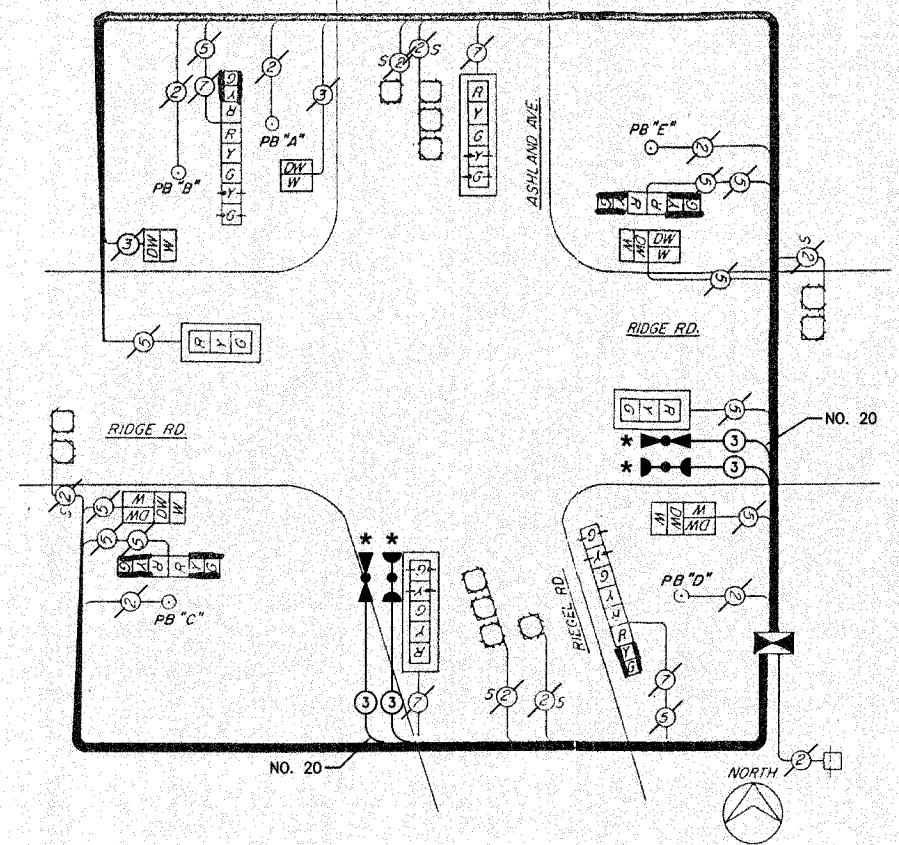


PHASE DESIGNATION DIAGRAM



EMERGENCY VEHICLE PREEMPTION SEQUENCE

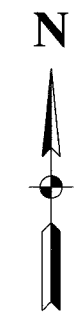
PROPOSED EMERGENCY VEHICLE PREEMPTORS			
EMERGENCY VEHICLE PREEMPTOR	3	4	
MOVEMENT	↑	↓	←



CABLE DIAGRAM
 NO SCALE

SCHEDULE OF QUANTITIES		
PAY ITEM	UNIT	QUANTITY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
FULL-ACTUATED CONTROLLER IN EXISTING CABINET, SPECIAL	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	257
LIGHT DETECTOR	EACH	2
LIGHT DETECTOR AMPLIFIER	EACH	1
MODIFY EXISTING CONTROLLER	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1

NOTE
 * 1. THIS PLAN IS FOR THE PURPOSE OF INSTALLING EMERGENCY VEHICLE PREEMPTION EQUIPMENT AS SHOWN PER PLAN INDICATED IN THE SCHEDULE OF QUANTITIES. ALL OTHER EQUIPMENT SHOWN SHALL BE DISREGARDED.



EXISTING	PROPOSED	
		8" TRAFFIC SIGNAL SECTION
		12" TRAFFIC SIGNAL SECTION
		12" PEDESTRIAN SIGNAL SECTION
		12" PEDESTRIAN SIGNAL SECTION
		CONTROLLER CABINET
		SERVICE INSTALLATION
		TELEPHONE CONNECTION
		MAGNETIC DETECTOR
		EMERGENCY VEHICLE LIGHT DETECTOR
		CONFIRMATION BEACON
		PUSHBUTTON DETECTOR
		VEHICLE DETECTOR, INDUCTION LOOP
		DENOTES NUMBER OF CONDUCTORS. ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED.
		SIGNAL FACE WITH BACKPLATE "P" INDICATES PROGRAMMED HEAD
		RAILROAD CONTROL CABINET
		ILLUMINATED SIGN, FIBER OPTIC "NO LEFT TURN"
		ILLUMINATED SIGN, FIBER OPTIC "NO RIGHT TURN"
		H/C GROUND ROD AT HANDHOLE, DOUBLE HANDHOLE, OR CONTROLLER
		P GROUND ROD AT POST OR MAST ARM POLE
		S GROUND ROD AT ELECTRIC SERVICE INSTALLATION

VILLAGE OF HOMEWOOD
 LOCATION NO. 78

* PLANS MODIFIED BY
 ROBINSON ENGINEERING, LTD

REVISIONS	
NAME	DATE
ADDED EV PREEMPTION	01/02/08
ADDED CONTROLLER	

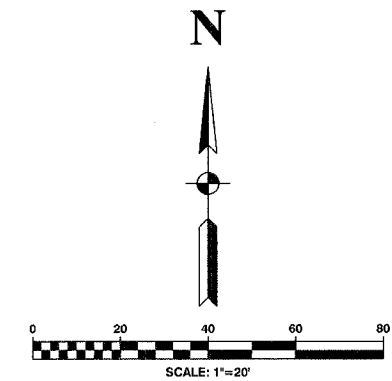
ILLINOIS DEPARTMENT OF TRANSPORTATION
PROPOSED EMERGENCY VEHICLE PREEMPTION CABLE PLAN, PHASE DESIGNATION DIAGRAM & SCHEDULE OF QUANTITIES
 RIDGE ROAD & RIEGEL ROAD/ASHLAND AVENUE

SCALE: VERT. _____
 HORIZ. _____

DRAWN BY _____
 CHECKED BY _____

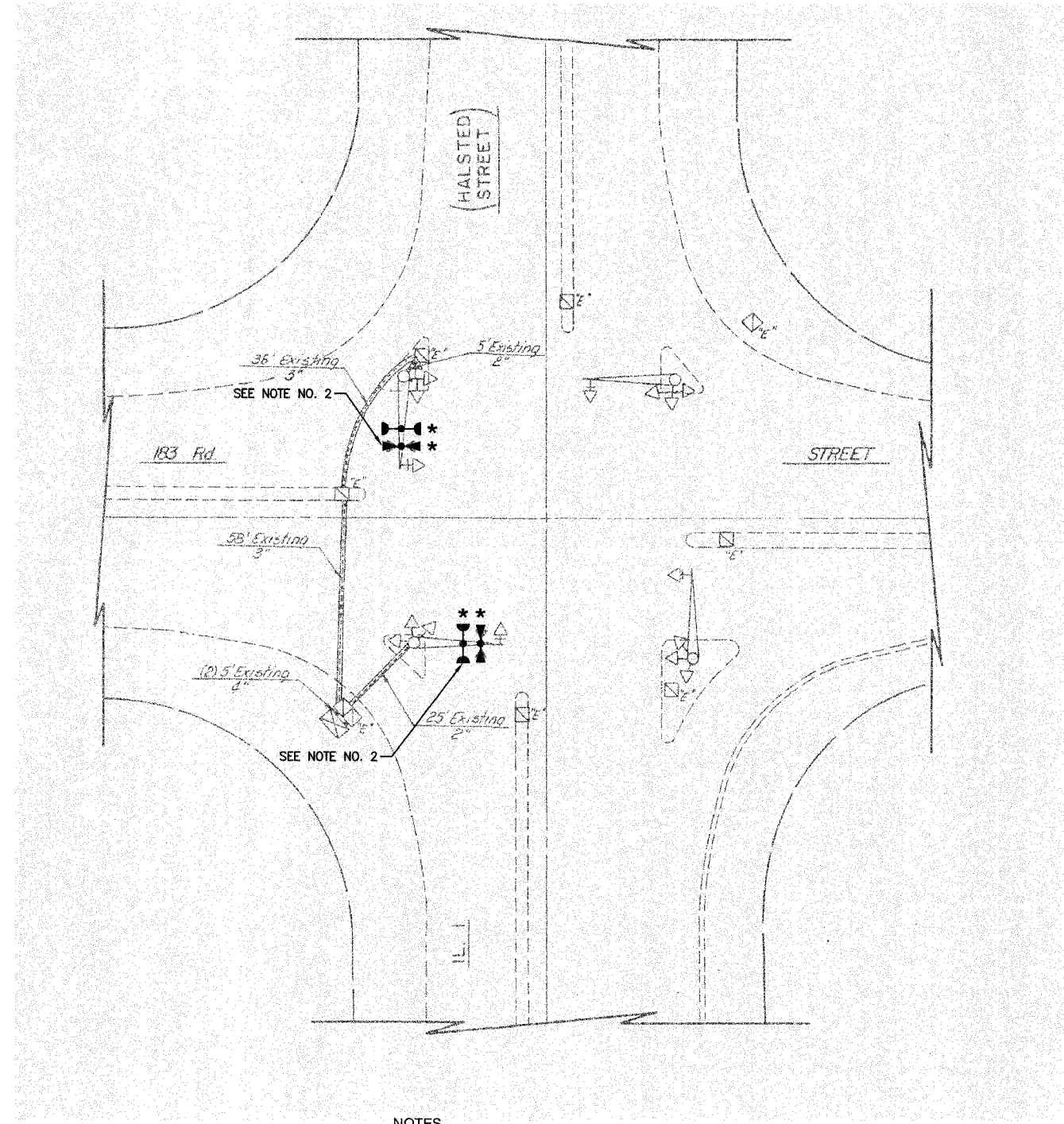
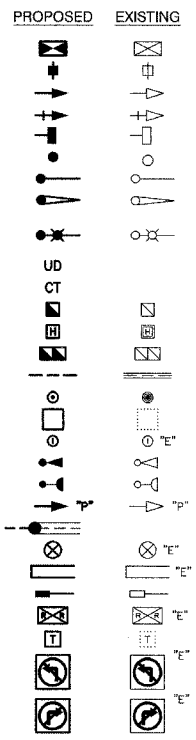
SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
08-00146-00-TL	COOK	273	177
STA. TO STA.		FED. ROAD DIST. NO. ELMIST. FED. AID PROJECT	

CONTRACT NO. 63003



TRAFFIC SIGNAL LEGEND

- CONTROLLER
- SERVICE INSTALLATION
- SIGNAL HEAD
- SIGNAL HEAD WITH BACKPLATE
- SIGNAL HEAD, PEDESTRIAN
- SIGNAL POST
- MAST ARM ASSEMBLY AND POLE, STEEL
- MAST ARM ASSEMBLY AND POLE, ALUMINUM
- COMBINATION MAST ARM ASSEMBLY AND POLE STEEL WITH LUMINAIRE
- UNIT DUCT
- COMMON TRENCH
- HANDHOLE
- HEAVY DUTY HANDHOLE
- DOUBLE HANDHOLE
- G.S. CONDUIT IN GROUND
- PEDESTRIAN PUSHBUTTON DETECTOR
- DETECTOR LOOP
- CAST IRON JUNCTION BOX
- EMERGENCY VEHICLE SYSTEM DETECTOR
- CONFIRMATION BEACON
- SIGNAL HEAD OPTICALLY PROGRAMMED
- CONDUIT SPLICE
- WOOD POLE
- RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II
- VEHICLE DETECTOR, NON COMPENSATED MAGNETIC TYPE
- RAILROAD CONTROL CABINET
- TELEPHONE CONNECTION
- ILLUMINATED SIGN, FIBER OPTIC "NO LEFT TURN"
- ILLUMINATED SIGN, FIBER OPTIC "NO RIGHT TURN"



NOTES

- * 1. THIS PLAN IS FOR THE PURPOSE OF INSTALLING EMERGENCY VEHICLE PREEMPTION EQUIPMENT AS SHOWN PER PLAN INDICATED IN THE SCHEDULE OF QUANTITIES. ALL OTHER EQUIPMENT SHOWN SHALL BE DISREGARDED.
- 2. THE EXISTING EMERGENCY VEHICLE LIGHT DETECTOR AND LIGHT DETECTOR AMPLIFIER SHALL BE REMOVED AND REPLACED WITH NEW EQUIPMENT. THE EXISTING EQUIPMENT SHALL BE RETURNED TO THE VILLAGE OF HOMEWOOD.

VILLAGE OF HOMEWOOD
LOCATION NO. 79

ILLINOIS DEPARTMENT OF TRANSPORTATION

PROPOSED EMERGENCY VEHICLE PREEMPTION
183RD STREET & HALSTED STREET

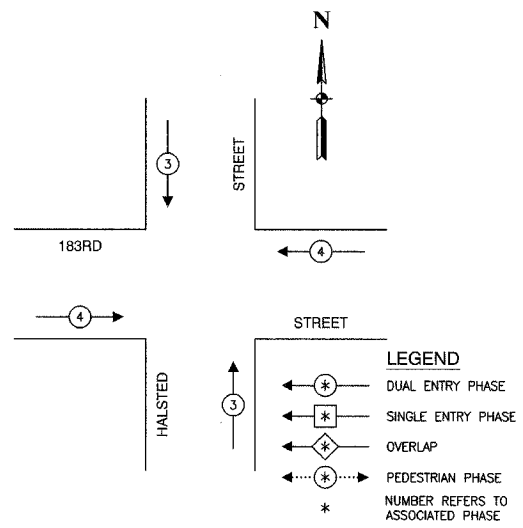
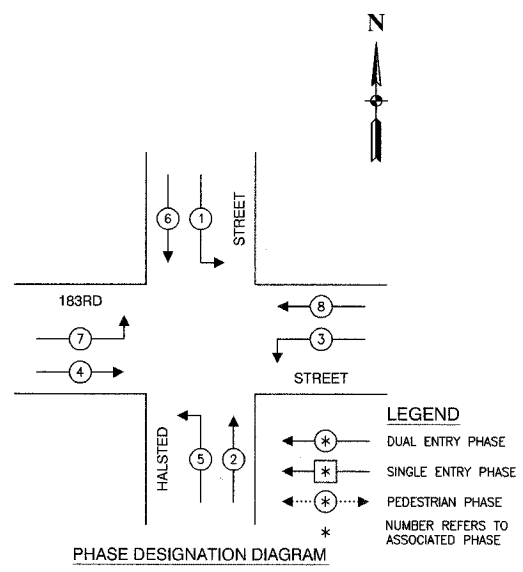
* PLANS MODIFIED BY
ROBINSON ENGINEERING, LTD

REVISIONS	
NAME	DATE
* ADDED EV PREEMPTION	01/02/08

SCALE: VERT. HORIZ.
DATE DRAWN BY CHECKED BY

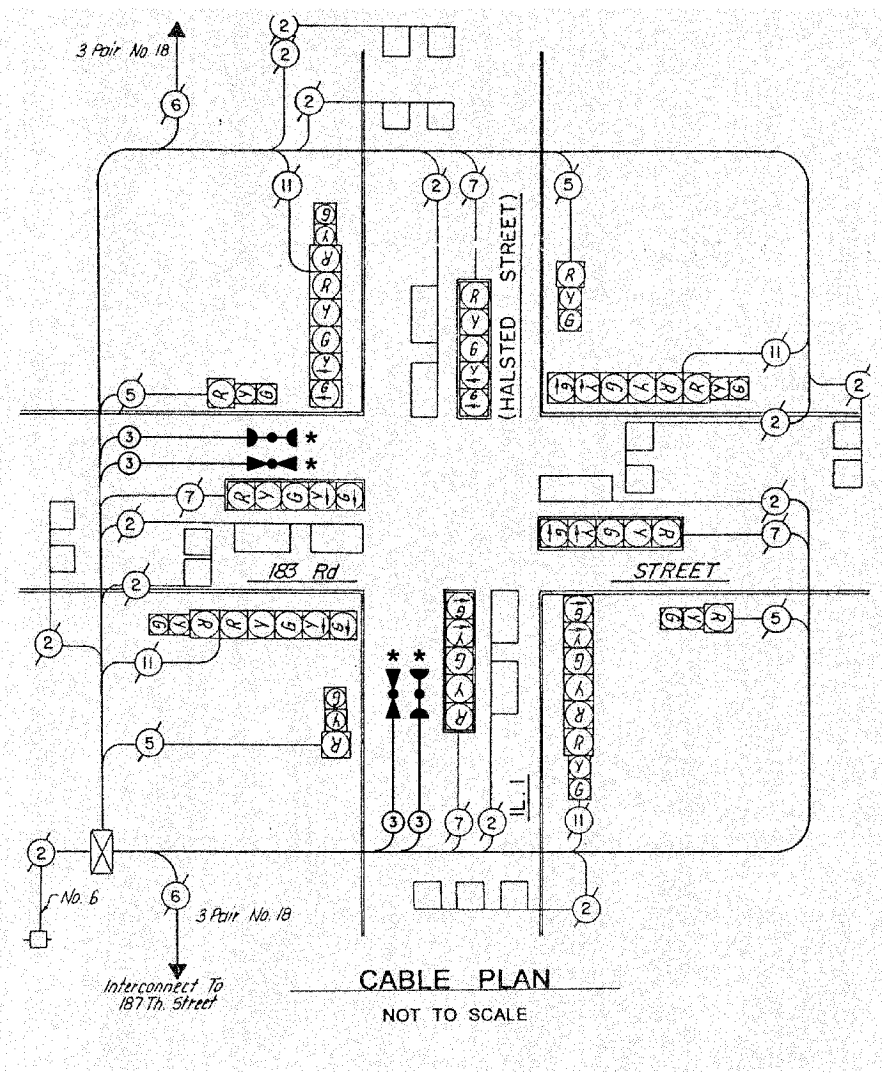
F. A. SHEET	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00146-00-TL	COOK	273	178
STA.		TO STA.		
FED. ROAD DIST. NO.	ALNOR	FED. AID PROJECT		

CONTRACT NO. 63003



EMERGENCY VEHICLE PREEMPTION SEQUENCE

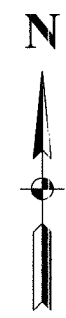
PROPOSED EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	↓	←



SCHEDULE OF QUANTITIES		
PAY ITEM	UNIT	QUANTITY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	262
LIGHT DETECTOR	EACH	2
LIGHT DETECTOR AMPLIFIER	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1

NOTE

* 1. THIS PLAN IS FOR THE PURPOSE OF INSTALLING EMERGENCY VEHICLE PREEMPTION EQUIPMENT AS SHOWN PER PLAN INDICATED IN THE SCHEDULE OF QUANTITIES. ALL OTHER EQUIPMENT SHOWN SHALL BE DISREGARDED.



EXISTING	PROPOSED	
		8" TRAFFIC SIGNAL SECTION
		12" TRAFFIC SIGNAL SECTION
		12" PEDESTRIAN SIGNAL SECTION
		12" PEDESTRIAN SIGNAL SECTION
		CONTROLLER CABINET
		SERVICE INSTALLATION
		TELEPHONE CONNECTION
		MAGNETIC DETECTOR
		EMERGENCY VEHICLE LIGHT DETECTOR
		CONFIRMATION BEACON
		PUSHBUTTON DETECTOR
		VEHICLE DETECTOR, INDUCTION LOOP
		DENOTES NUMBER OF CONDUCTORS. ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED.
		SIGNAL FACE WITH BACKPLATE
		"P" INDICATES PROGRAMMED HEAD
		RAILROAD CONTROL CABINET
		ILLUMINATED SIGN, FIBER OPTIC "NO LEFT TURN"
		ILLUMINATED SIGN, FIBER OPTIC "NO RIGHT TURN"
H/C	H/C	GROUND ROD AT HANDHOLE, DOUBLE HANDHOLE, OR CONTROLLER
P	P	GROUND ROD AT POST OR MAST ARM POLE
S	S	GROUND ROD AT ELECTRIC SERVICE INSTALLATION

* PLANS MODIFIED BY ROBINSON ENGINEERING, LTD

REVISIONS	
NAME	DATE
* ADDED EV PREEMPTION	01/02/08

**VILLAGE OF HOMEWOOD
LOCATION NO. 79**

ILLINOIS DEPARTMENT OF TRANSPORTATION

**PROPOSED EMERGENCY VEHICLE PREEMPTION
CABLE PLAN, PHASE DESIGNATION DIAGRAM &
SCHEDULE OF QUANTITIES
183RD STREET & HALSTED STREET**

SCALE: VERT. _____
HORIZ. _____

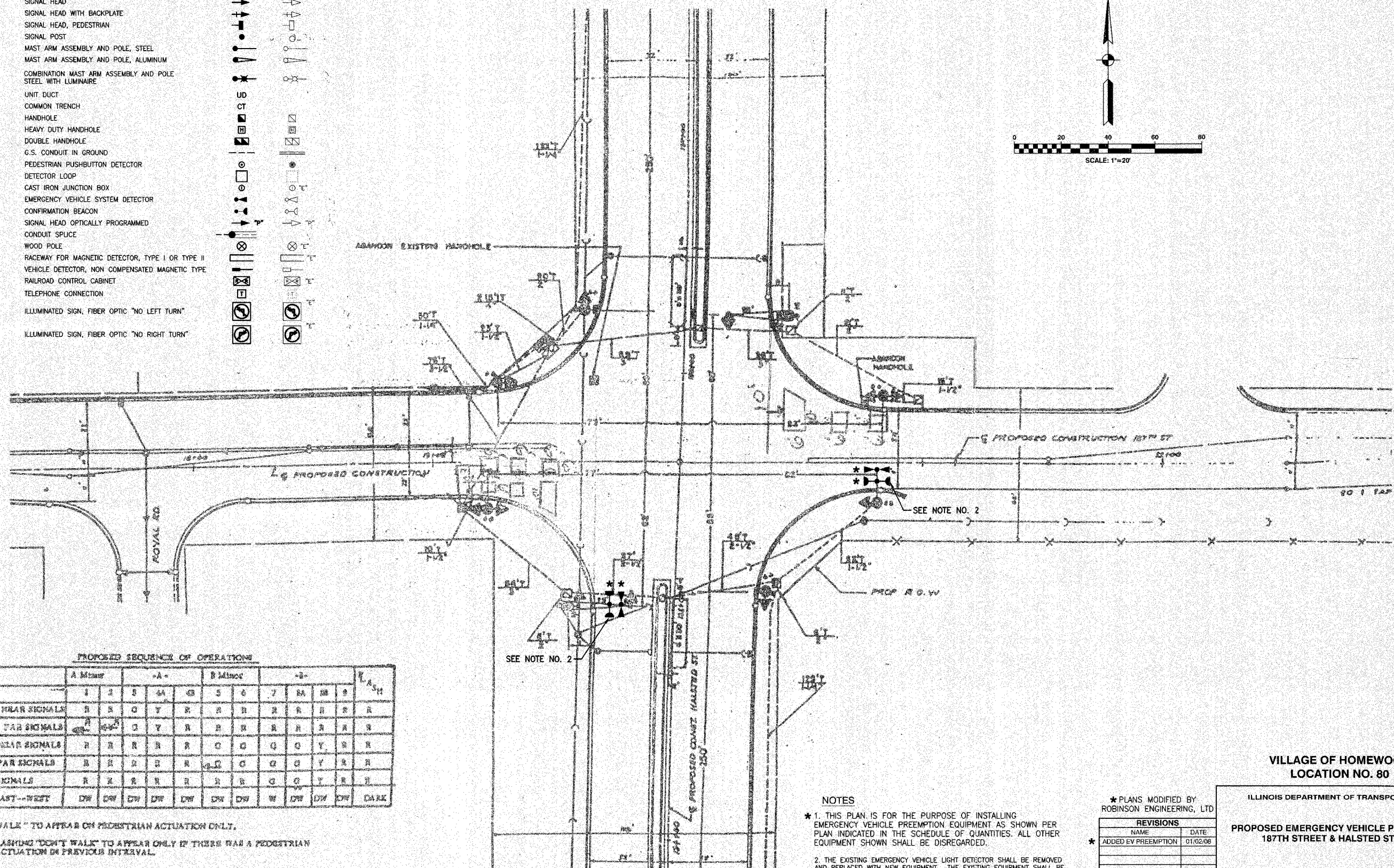
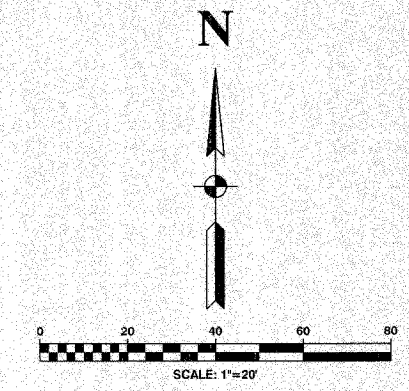
DATE _____ DRAWN BY _____
CHECKED BY _____

F. A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00146-00-TL	COOK	273	179
STA.	TO STA.			
FED. ROAD DIST. NO.	LANDS	FED. AID PROJECT		

CONTRACT NO. 63003

TRAFFIC SIGNAL LEGEND

	PROPOSED	EXISTING
CONTROLLER	[Symbol]	[Symbol]
SERVICE INSTALLATION	[Symbol]	[Symbol]
SIGNAL HEAD	[Symbol]	[Symbol]
SIGNAL HEAD WITH BACKPLATE	[Symbol]	[Symbol]
SIGNAL HEAD, PEDESTRIAN	[Symbol]	[Symbol]
SIGNAL POST	[Symbol]	[Symbol]
MAST ARM ASSEMBLY AND POLE, STEEL	[Symbol]	[Symbol]
MAST ARM ASSEMBLY AND POLE, ALUMINUM	[Symbol]	[Symbol]
COMBINATION MAST ARM ASSEMBLY AND POLE STEEL WITH LUMINAIRE	[Symbol]	[Symbol]
UNIT DUCT	[Symbol]	[Symbol]
COMMON TRENCH	[Symbol]	[Symbol]
HANDHOLE	[Symbol]	[Symbol]
HEAVY DUTY HANDHOLE	[Symbol]	[Symbol]
DOUBLE HANDHOLE	[Symbol]	[Symbol]
G.S. CONDUIT IN GROUND	[Symbol]	[Symbol]
PEDESTRIAN PUSHBUTTON DETECTOR	[Symbol]	[Symbol]
DETECTOR LOOP	[Symbol]	[Symbol]
CAST IRON JUNCTION BOX	[Symbol]	[Symbol]
EMERGENCY VEHICLE SYSTEM DETECTOR	[Symbol]	[Symbol]
CONFIRMATION BEACON	[Symbol]	[Symbol]
SIGNAL HEAD OPTICALLY PROGRAMMED	[Symbol]	[Symbol]
CONDUIT SPLICE	[Symbol]	[Symbol]
WOOD POLE	[Symbol]	[Symbol]
RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II	[Symbol]	[Symbol]
VEHICLE DETECTOR, NON COMPENSATED MAGNETIC TYPE	[Symbol]	[Symbol]
RAILROAD CONTROL CABINET	[Symbol]	[Symbol]
TELEPHONE CONNECTION	[Symbol]	[Symbol]
ILLUMINATED SIGN, FIBER OPTIC "NO LEFT TURN"	[Symbol]	[Symbol]
ILLUMINATED SIGN, FIBER OPTIC "NO RIGHT TURN"	[Symbol]	[Symbol]



PROPOSED SEQUENCE OF OPERATIONS

PHASE	A Misses		-A-		B Misses		-B-		Flash		
INTERVALS	1	2	3	4A	4B	5	6	7	8A	8B	9
HALSTED ST. NEAR SIGNALS	R	R	O	Y	R	R	R	R	R	R	R
HALSTED ST. FAR SIGNALS			O	Y	R	R	R	R	R	R	R
187th ST. N/S NEAR SIGNALS	R	R	R	R	R	O	O	O	O	Y	R
187th ST. N/S FAR SIGNALS	R	R	R	R	R	O	O	O	O	Y	R
187th ST. W/S SIGNALS	R	R	R	R	R	R	O	O	Y	R	R
PEDESTRIAN EAST--WEST	DW	DW	DW	DW	DW	DW	DW	W	DW	DW	DW

* "WALK" TO APPEAR ON PEDESTRIAN ACTUATION ONLY.
 ** FLASHING "DON'T WALK" TO APPEAR ONLY IF THERE WAS A PEDESTRIAN ACTUATION IN PREVIOUS INTERVAL.

NOTES
 * 1. THIS PLAN IS FOR THE PURPOSE OF INSTALLING EMERGENCY VEHICLE PREEMPTION EQUIPMENT AS SHOWN PER PLAN INDICATED IN THE SCHEDULE OF QUANTITIES. ALL OTHER EQUIPMENT SHOWN SHALL BE DISREGARDED.
 2. THE EXISTING EMERGENCY VEHICLE LIGHT DETECTOR SHALL BE REMOVED AND REPLACED WITH NEW EQUIPMENT. THE EXISTING EQUIPMENT SHALL BE RETURNED TO THE VILLAGE OF HOMEWOOD.

* PLANS MODIFIED BY ROBINSON ENGINEERING, LTD

REVISIONS	
NAME	DATE
ADDED EV PREEMPTION	01/02/08

VILLAGE OF HOMEWOOD
 LOCATION NO. 80

ILLINOIS DEPARTMENT OF TRANSPORTATION

PROPOSED EMERGENCY VEHICLE PREEMPTION
 187TH STREET & HALSTED STREET

SCALE: VERT. _____
 HORIZ. _____

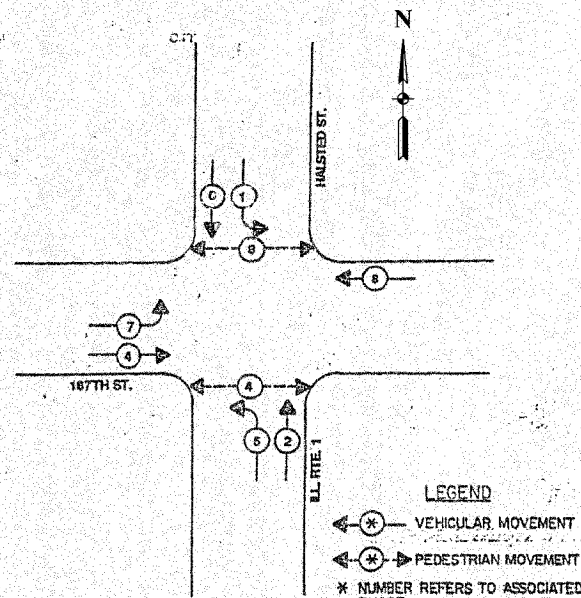
DATE _____ DRAWN BY _____
 CHECKED BY _____

ROBINSON ENGINEERING, LTD.
 1700 SOUTH PARK AVENUE SUITE 1000, LANSING, ILLINOIS 60438
 (708) 531-4700 FAX (708) 531-3808
 ILLINOIS DESIGN FIRM REGISTRATION NO. 14001126

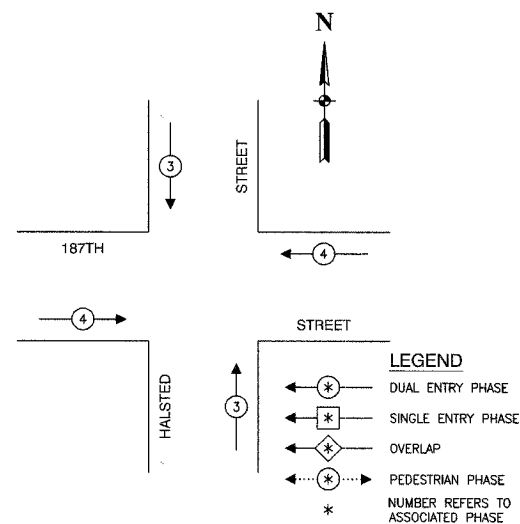
F. A. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00146-00-TL	COOK	273	180
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 63003

CONTROLLER SEQUENCE IV
 REFERRING TO STANDARD 2393-THE VEHICULAR AND PEDESTRIAN PHASES USED ARE DESIGNATED BELOW.

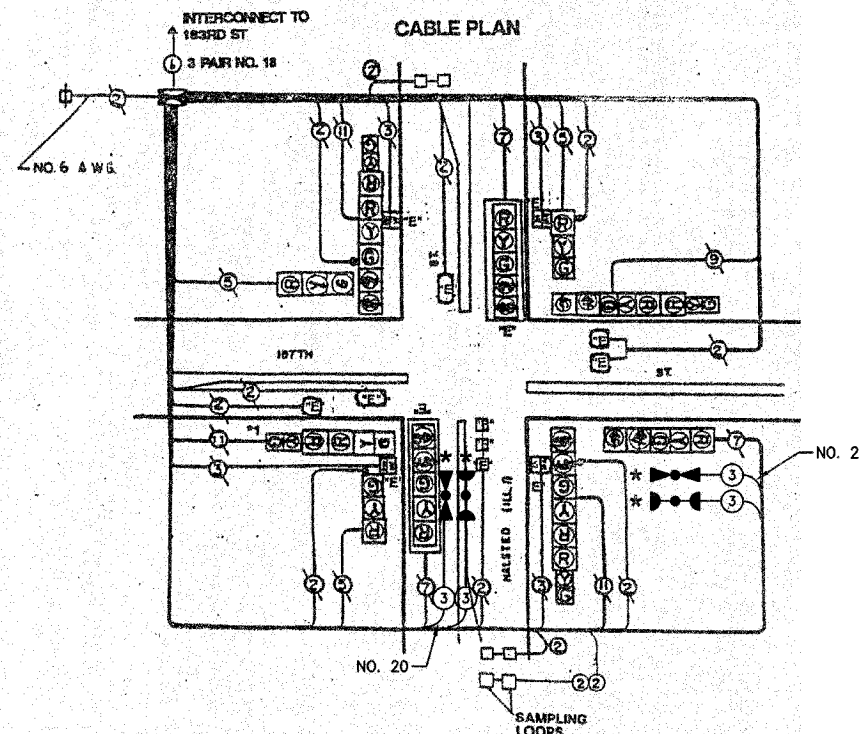


PHASE DESIGNATION DIAGRAM



EMERGENCY VEHICLE PREEMPTION SEQUENCE

PROPOSED EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	↓	←



SCHEDULE OF QUANTITIES

PAY ITEM	UNIT	QUANTITY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	563
LIGHT DETECTOR	EACH	2
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1

NOTE

* 1. THIS PLAN IS FOR THE PURPOSE OF INSTALLING EMERGENCY VEHICLE PREEMPTION EQUIPMENT AS SHOWN PER PLAN INDICATED IN THE SCHEDULE OF QUANTITIES. ALL OTHER EQUIPMENT SHOWN SHALL BE DISREGARDED.

EXISTING	PROPOSED	
		8" TRAFFIC SIGNAL SECTION
		12" TRAFFIC SIGNAL SECTION
		12" PEDESTRIAN SIGNAL SECTION
		12" PEDESTRIAN SIGNAL SECTION
		CONTROLLER CABINET
		SERVICE INSTALLATION
		TELEPHONE CONNECTION
		MAGNETIC DETECTOR
		EMERGENCY VEHICLE LIGHT DETECTOR
		CONFIRMATION BEACON
		PUSHBUTTON DETECTOR
		VEHICLE DETECTOR, INDUCTION LOOP
		DENOTES NUMBER OF CONDUCTORS. ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED.
		SIGNAL FACE WITH BACKPLATE "P" INDICATES PROGRAMMED HEAD
		RAILROAD CONTROL CABINET
		ILLUMINATED SIGN, FIBER OPTIC "NO LEFT TURN"
		ILLUMINATED SIGN, FIBER OPTIC "NO RIGHT TURN"
		H/C GROUND ROD AT HANDHOLE, DOUBLE HANDHOLE, OR CONTROLLER
		P GROUND ROD AT POST OR MAST ARM POLE
		S GROUND ROD AT ELECTRIC SERVICE INSTALLATION

VILLAGE OF HOMEWOOD
 LOCATION NO. 80

ILLINOIS DEPARTMENT OF TRANSPORTATION

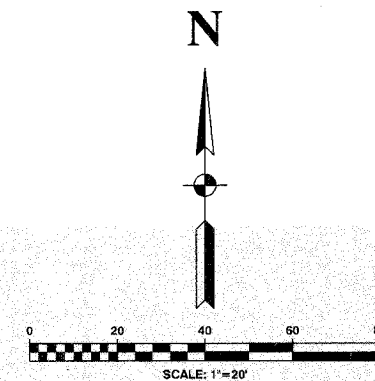
PROPOSED EMERGENCY VEHICLE PREEMPTION
 CABLE PLAN, PHASE DESIGNATION DIAGRAM &
 SCHEDULE OF QUANTITIES
 187TH STREET & HALSTED STREET

SCALE: VERT. _____
 HORIZ. _____
 DATE _____ DRAWN BY _____
 CHECKED BY _____

ROBINSON ENGINEERING, LTD.
 17000 SOUTH PARK AVENUE SOUTH HOLLAND, ILLINOIS 60473
 (708) 321-6100 FAX (708) 321-3400
 ILLINOIS DESIGN FIRM REGISTRATION NO. 18401126

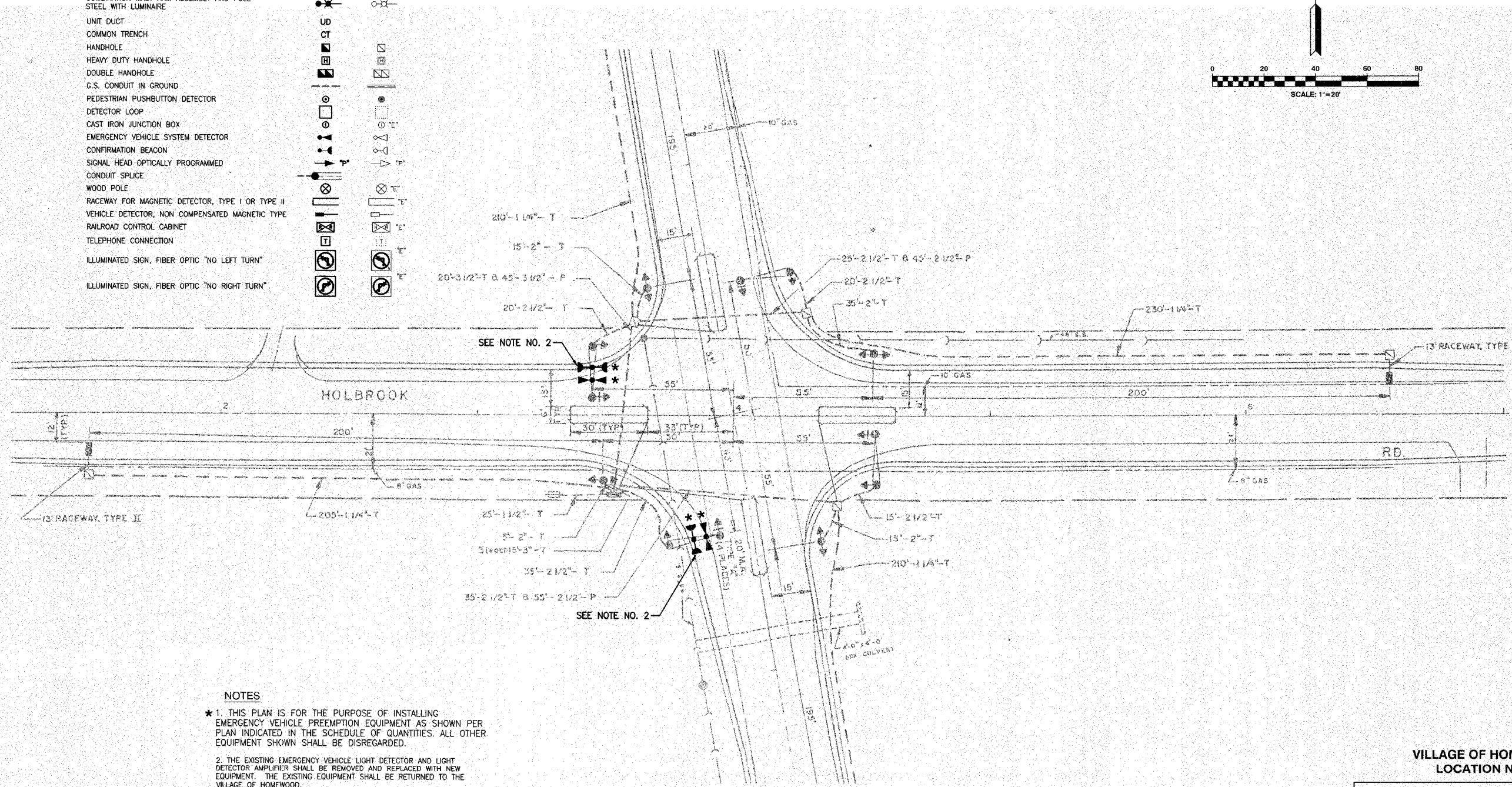
F. A. SHEET NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00146-00-TL	COOK	273	181
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 63003



TRAFFIC SIGNAL LEGEND

	PROPOSED	EXISTING
CONTROLLER		
SERVICE INSTALLATION		
SIGNAL HEAD		
SIGNAL HEAD WITH BACKPLATE		
SIGNAL HEAD, PEDESTRIAN		
SIGNAL POST		
MAST ARM ASSEMBLY AND POLE, STEEL		
MAST ARM ASSEMBLY AND POLE, ALUMINUM		
COMBINATION MAST ARM ASSEMBLY AND POLE STEEL WITH LUMINAIRE		
UNIT DUCT		
COMMON TRENCH		
HANDHOLE		
HEAVY DUTY HANDHOLE		
DOUBLE HANDHOLE		
G.S. CONDUIT IN GROUND		
PEDESTRIAN PUSHBUTTON DETECTOR		
DETECTOR LOOP		
CAST IRON JUNCTION BOX		
EMERGENCY VEHICLE SYSTEM DETECTOR		
CONFIRMATION BEACON		
SIGNAL HEAD OPTICALLY PROGRAMMED		
CONDUIT SPLICE		
WOOD POLE		
RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II		
VEHICLE DETECTOR, NON COMPENSATED MAGNETIC TYPE		
RAILROAD CONTROL CABINET		
TELEPHONE CONNECTION		
ILLUMINATED SIGN, FIBER OPTIC "NO LEFT TURN"		
ILLUMINATED SIGN, FIBER OPTIC "NO RIGHT TURN"		



- NOTES**
- * 1. THIS PLAN IS FOR THE PURPOSE OF INSTALLING EMERGENCY VEHICLE PREEMPTION EQUIPMENT AS SHOWN PER PLAN INDICATED IN THE SCHEDULE OF QUANTITIES. ALL OTHER EQUIPMENT SHOWN SHALL BE DISREGARDED.
 - 2. THE EXISTING EMERGENCY VEHICLE LIGHT DETECTOR AND LIGHT DETECTOR AMPLIFIER SHALL BE REMOVED AND REPLACED WITH NEW EQUIPMENT. THE EXISTING EQUIPMENT SHALL BE RETURNED TO THE VILLAGE OF HOMEWOOD.

VILLAGE OF HOMEWOOD
LOCATION NO. 81

* PLANS MODIFIED BY
ROBINSON ENGINEERING, LTD

REVISIONS	
NAME	DATE
* ADDED EV PREEMPTION	01/02/08

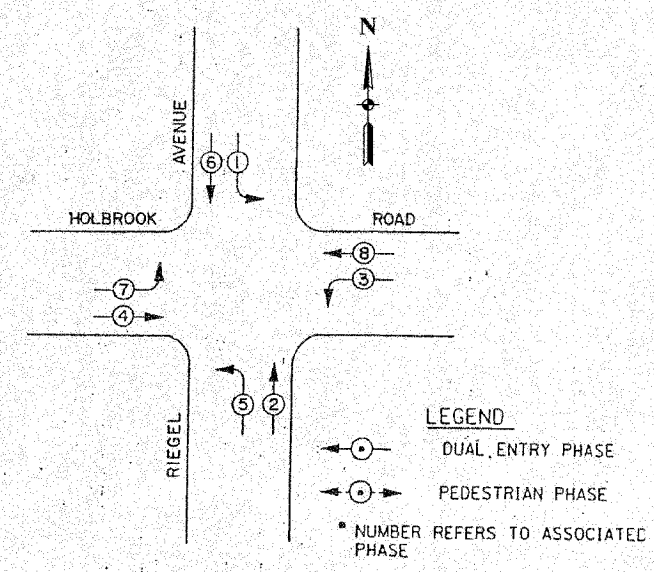
ILLINOIS DEPARTMENT OF TRANSPORTATION
**PROPOSED EMERGENCY VEHICLE PREEMPTION
HOLBROOK ROAD & RIEGEL ROAD**

SCALE: VERT. _____
HORIZ. _____
DATE _____ DRAWN BY _____
CHECKED BY _____

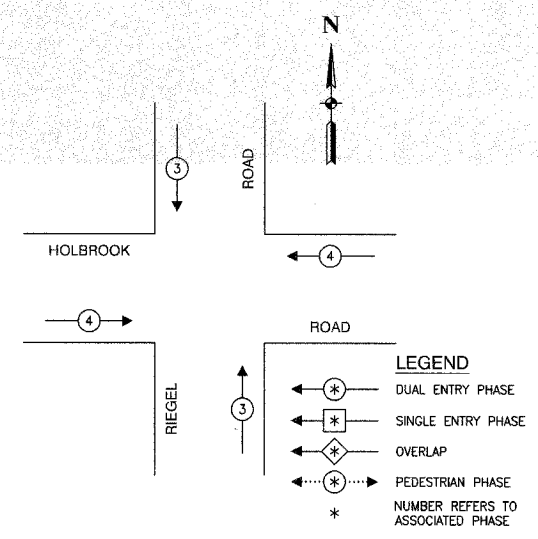
F. A. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00146-00-TL	COOK	273	182
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 63003

PROPOSED
CONTROLLER SEQUENCE IV
REFERRING TO STANDARD 2393, THE VEHICULAR AND PEDESTRIAN PHASES USED ARE DESIGNATED BELOW.

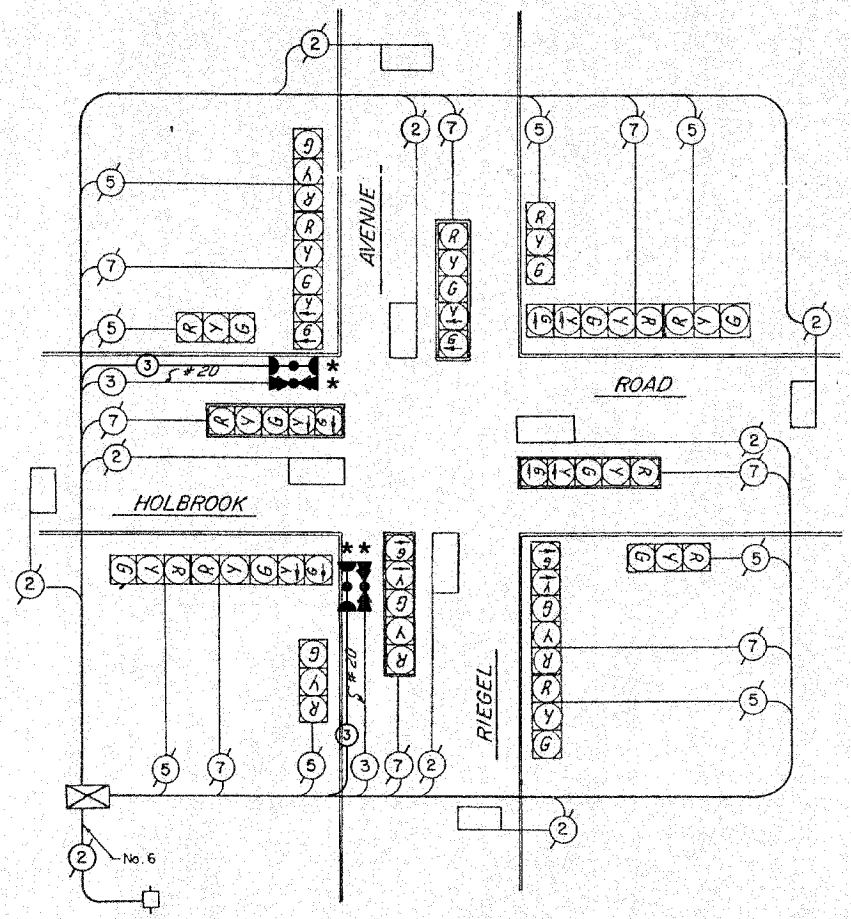


PHASE DESIGNATION DIAGRAM
DUAL ENTRY - ALL LEGS
PROTECTED/PERMITTED LEFT TURN PHASING



EMERGENCY VEHICLE PREEMPTION SEQUENCE

PROPOSED EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	↑	←



CABLE PLAN
NOT TO SCALE

SCHEDULE OF QUANTITIES		
PAY ITEM	UNIT	QUANTITY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	252
LIGHT DETECTOR	EACH	2
LIGHT DETECTOR AMPLIFIER	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1

NOTE
 * 1. THIS PLAN IS FOR THE PURPOSE OF INSTALLING EMERGENCY VEHICLE PREEMPTION EQUIPMENT AS SHOWN PER PLAN INDICATED IN THE SCHEDULE OF QUANTITIES. ALL OTHER EQUIPMENT SHOWN SHALL BE DISREGARDED.

EXISTING	PROPOSED	
[Symbol]	[Symbol]	8" TRAFFIC SIGNAL SECTION
[Symbol]	[Symbol]	12" TRAFFIC SIGNAL SECTION
[Symbol]	[Symbol]	12" PEDESTRIAN SIGNAL SECTION
[Symbol]	[Symbol]	12" PEDESTRIAN SIGNAL SECTION
[Symbol]	[Symbol]	CONTROLLER CABINET
[Symbol]	[Symbol]	SERVICE INSTALLATION
[Symbol]	[Symbol]	TELEPHONE CONNECTION
[Symbol]	[Symbol]	MAGNETIC DETECTOR
[Symbol]	[Symbol]	EMERGENCY VEHICLE LIGHT DETECTOR
[Symbol]	[Symbol]	CONFIRMATION BEACON
[Symbol]	[Symbol]	PUSHBUTTON DETECTOR
[Symbol]	[Symbol]	VEHICLE DETECTOR, INDUCTION LOOP
[Symbol]	[Symbol]	DENOTES NUMBER OF CONDUCTORS. ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED.
[Symbol]	[Symbol]	SIGNAL FACE WITH BACKPLATE
[Symbol]	[Symbol]	"P" INDICATES PROGRAMMED HEAD
[Symbol]	[Symbol]	RAILROAD CONTROL CABINET
[Symbol]	[Symbol]	ILLUMINATED SIGN, FIBER OPTIC "NO LEFT TURN"
[Symbol]	[Symbol]	ILLUMINATED SIGN, FIBER OPTIC "NO RIGHT TURN"
[Symbol]	[Symbol]	H/C GROUND ROD AT HANDHOLE, DOUBLE HANDHOLE, OR CONTROLLER
[Symbol]	[Symbol]	P GROUND ROD AT POST OR MAST ARM POLE
[Symbol]	[Symbol]	S GROUND ROD AT ELECTRIC SERVICE INSTALLATION

VILLAGE OF HOMEWOOD
LOCATION NO. 81

ILLINOIS DEPARTMENT OF TRANSPORTATION

PROPOSED EMERGENCY VEHICLE PREEMPTION
CABLE PLAN, PHASE DESIGNATION DIAGRAM &
SCHEDULE OF QUANTITIES
HOLBROOK ROAD & RIEGEL ROAD

* PLANS MODIFIED BY
ROBINSON ENGINEERING, LTD.

REVISIONS	
NAME	DATE
* ADDED EV PREEMPTION	01/02/08

SCALE: VERT. _____
HORIZ. _____
DATE _____ DRAWN BY _____
CHECKED BY _____

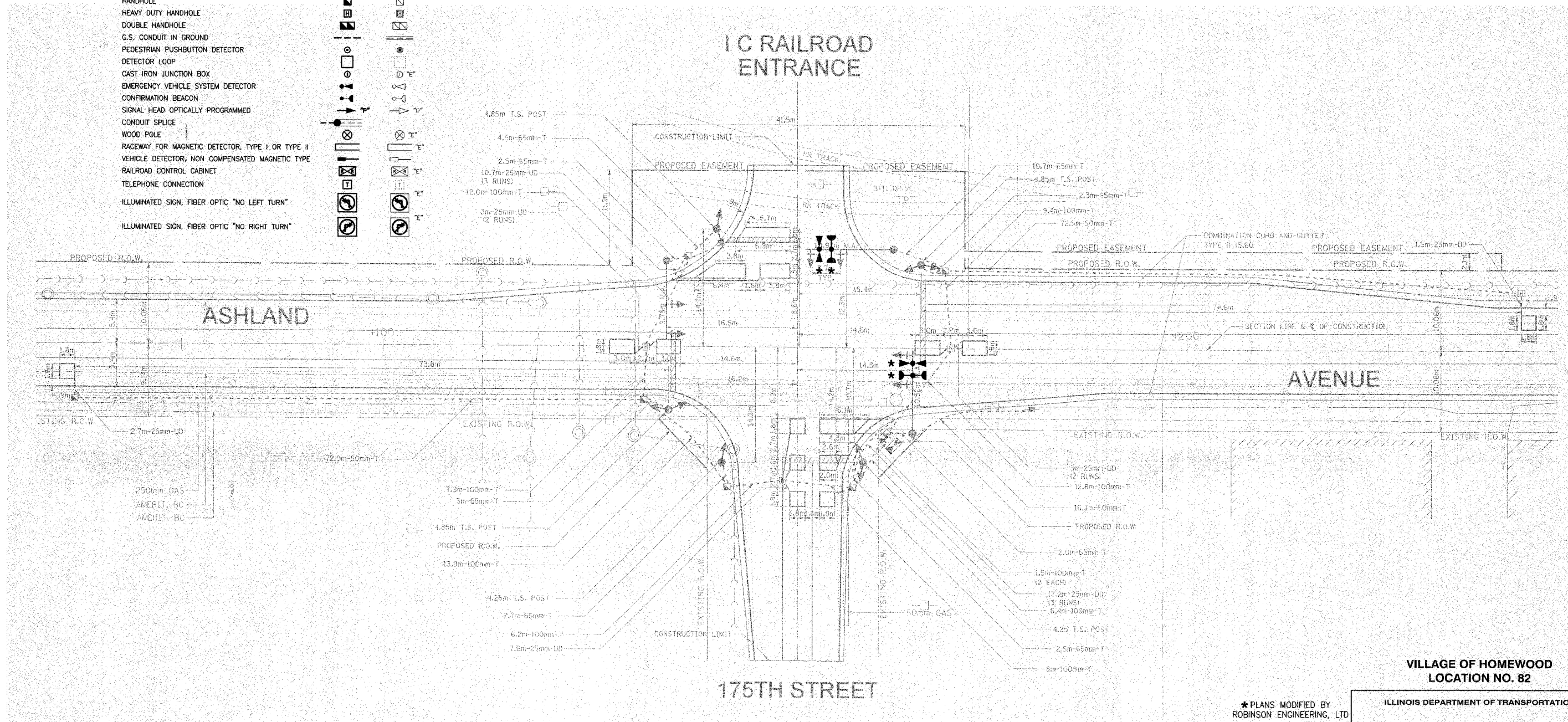
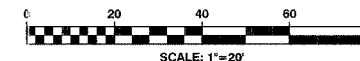
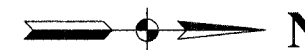
ROBINSON ENGINEERING, LTD.
12000 SOUTH PARK AVENUE SOUTH HOLLAND, ILLINOIS 60473
(708) 581-6700 FAX (708) 581-3828
ILLINOIS DESIGN FIRM REGISTRATION NO. 184001128

F. A. SHEET	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00146-00-TL	COOK	273	183
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 63003

TRAFFIC SIGNAL LEGEND

	PROPOSED	EXISTING
CONTROLLER		
SERVICE INSTALLATION		
SIGNAL HEAD		
SIGNAL HEAD WITH BACKPLATE		
SIGNAL HEAD, PEDESTRIAN		
SIGNAL POST		
MAST ARM ASSEMBLY AND POLE, STEEL		
MAST ARM ASSEMBLY AND POLE, ALUMINUM		
COMBINATION MAST ARM ASSEMBLY AND POLE STEEL WITH LUMINAIRE		
UNIT DUCT		
COMMON TRENCH		
HANDHOLE		
HEAVY DUTY HANDHOLE		
DOUBLE HANDHOLE		
G.S. CONDUIT IN GROUND		
PEDESTRIAN PUSHBUTTON DETECTOR		
DETECTOR LOOP		
CAST IRON JUNCTION BOX		
EMERGENCY VEHICLE SYSTEM DETECTOR		
CONFIRMATION BEACON		
SIGNAL HEAD OPTICALLY PROGRAMMED		
CONDUIT SPLICE		
WOOD POLE		
RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II		
VEHICLE DETECTOR, NON COMPENSATED MAGNETIC TYPE		
RAILROAD CONTROL CABINET		
TELEPHONE CONNECTION		
ILLUMINATED SIGN, FIBER OPTIC "NO LEFT TURN"		
ILLUMINATED SIGN, FIBER OPTIC "NO RIGHT TURN"		



NOTES

- * 1. THIS PLAN IS FOR THE PURPOSE OF INSTALLING EMERGENCY VEHICLE PREEMPTION EQUIPMENT AS SHOWN PER PLAN INDICATED IN THE SCHEDULE OF QUANTITIES. ALL OTHER EQUIPMENT SHOWN SHALL BE DISREGARDED.

* PLANS MODIFIED BY ROBINSON ENGINEERING, LTD

REVISIONS	
NAME	DATE
ADDED EV PREEMPTION	01/02/08

ILLINOIS DEPARTMENT OF TRANSPORTATION

PROPOSED EMERGENCY VEHICLE PREEMPTION
175TH STREET & ASHLAND AVENUE

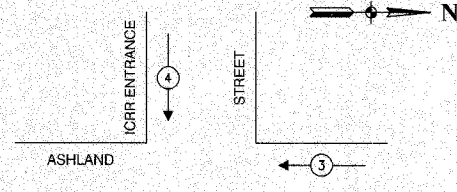
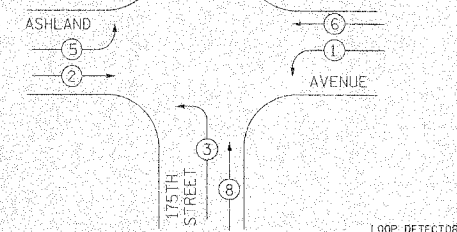
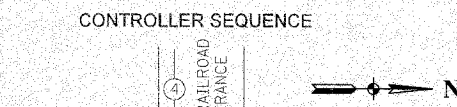
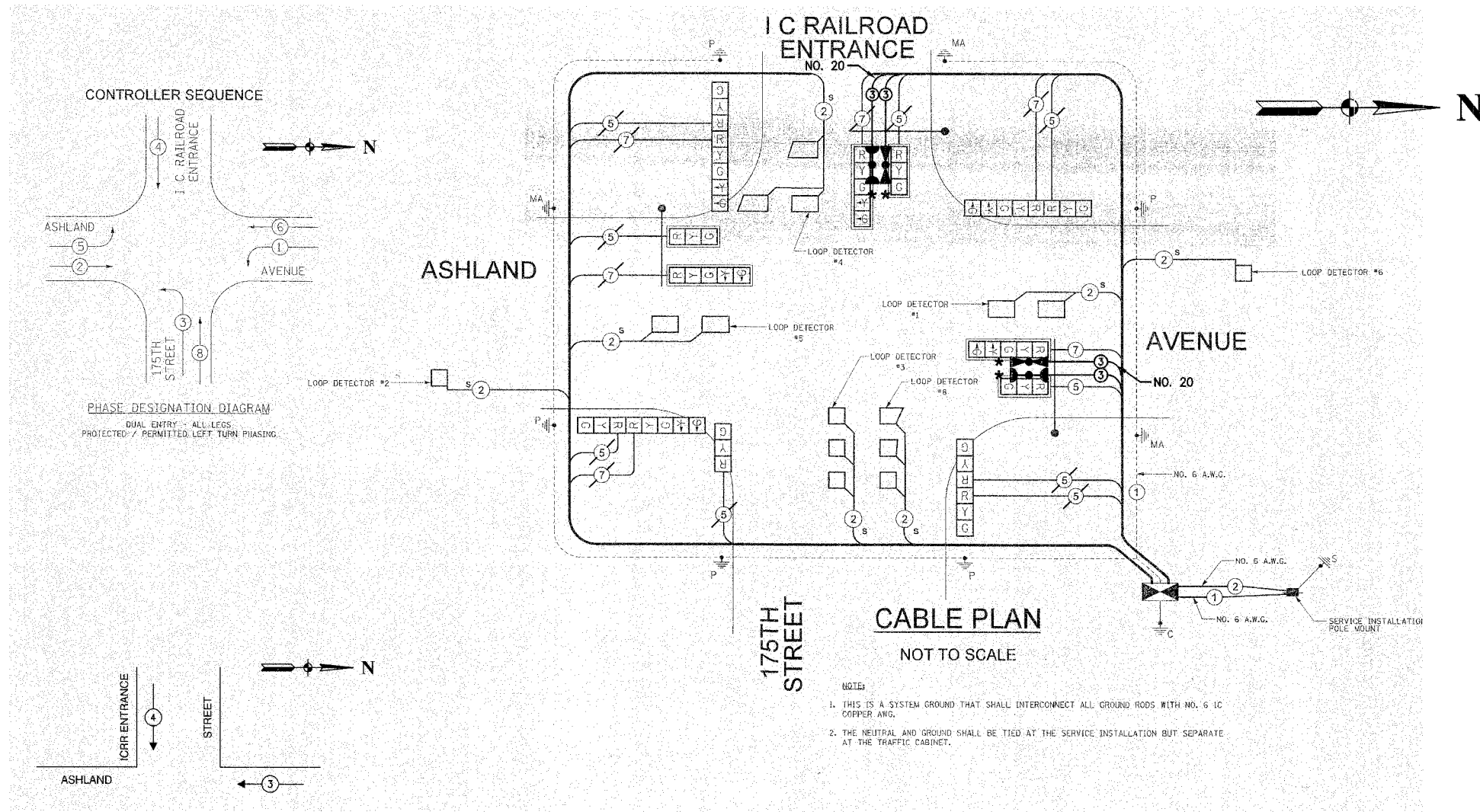
SCALE: VERT.
HORIZ.
DATE

DRAWN BY
CHECKED BY

ROBINSON ENGINEERING, LTD.
1700 SOUTH PARK AVENUE, SOUTH HOLLAND, ILLINOIS 60473
708.351.4200 FAX 708.351.3600
ILLINOIS DESIGN FIRM REGISTRATION NO. 164001126

F. A. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00146-00-TL	COOK	273	184
STA.		TO STA.		
FED. ROAD DIST. NO.	KLIPPS	FED. AID PROJECT		

CONTRACT NO. 63003



EXISTING	PROPOSED	DESCRIPTION
[Symbol]	[Symbol]	8" TRAFFIC SIGNAL SECTION
[Symbol]	[Symbol]	12" TRAFFIC SIGNAL SECTION
[Symbol]	[Symbol]	12" PEDESTRIAN SIGNAL SECTION
[Symbol]	[Symbol]	12" PEDESTRIAN SIGNAL SECTION
[Symbol]	[Symbol]	CONTROLLER CABINET
[Symbol]	[Symbol]	SERVICE INSTALLATION
[Symbol]	[Symbol]	TELEPHONE CONNECTION
[Symbol]	[Symbol]	MAGNETIC DETECTOR
[Symbol]	[Symbol]	EMERGENCY VEHICLE LIGHT DETECTOR
[Symbol]	[Symbol]	CONFIRMATION BEACON
[Symbol]	[Symbol]	PUSHBUTTON DETECTOR
[Symbol]	[Symbol]	VEHICLE DETECTOR, INDUCTION LOOP
[Symbol]	[Symbol]	DENOTES NUMBER OF CONDUCTORS. ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED.
[Symbol]	[Symbol]	SIGNAL FACE WITH BACKPLATE
[Symbol]	[Symbol]	"P" INDICATES PROGRAMMED HEAD
[Symbol]	[Symbol]	RAILROAD CONTROL CABINET
[Symbol]	[Symbol]	ILLUMINATED SIGN, FIBER OPTIC "NO LEFT TURN"
[Symbol]	[Symbol]	ILLUMINATED SIGN, FIBER OPTIC "NO RIGHT TURN"
[Symbol]	[Symbol]	GROUND ROD AT HANDHOLE, DOUBLE HANDHOLE, OR CONTROLLER
[Symbol]	[Symbol]	GROUND ROD AT POST OR MAST ARM POLE
[Symbol]	[Symbol]	GROUND ROD AT ELECTRIC SERVICE INSTALLATION

CABLE PLAN
NOT TO SCALE

- NOTES:
- THIS IS A SYSTEM GROUND THAT SHALL INTERCONNECT ALL GROUND RODS WITH NO. 6 1C COPPER AWG.
 - THE NEUTRAL AND GROUND SHALL BE TIED AT THE SERVICE INSTALLATION BUT SEPARATE AT THE TRAFFIC CABINET.

SCHEDULE OF QUANTITIES		
PAY ITEM	UNIT	QUANTITY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	286
LIGHT DETECTOR	EACH	2
LIGHT DETECTOR AMPLIFIER	EACH	1
ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED	FOOT	286

NOTE
* 1. THIS PLAN IS FOR THE PURPOSE OF INSTALLING EMERGENCY VEHICLE PREEMPTION EQUIPMENT AS SHOWN PER PLAN INDICATED IN THE SCHEDULE OF QUANTITIES. ALL OTHER EQUIPMENT SHOWN SHALL BE DISREGARDED.

LEGEND	
[Symbol]	DUAL ENTRY PHASE
[Symbol]	SINGLE ENTRY PHASE
[Symbol]	OVERLAP
[Symbol]	PEDESTRIAN PHASE
[Symbol]	NUMBER REFERS TO ASSOCIATED PHASE
[Symbol]	*

EMERGENCY VEHICLE PREEMPTION SEQUENCE		
PROPOSED EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	← →	↑ ↓

VILLAGE OF HOMEWOOD
LOCATION NO. 82

* PLANS MODIFIED BY
ROBINSON ENGINEERING, LTD

REVISIONS	
NAME	DATE
* ADDED EV PREEMPTION	01/02/06

ILLINOIS DEPARTMENT OF TRANSPORTATION
PROPOSED EMERGENCY VEHICLE PREEMPTION CABLE PLAN, PHASE DESIGNATION DIAGRAM & SCHEDULE OF QUANTITIES
175TH STREET & ASHLAND AVENUE

SCALE: VERT. _____
HORIZ. _____

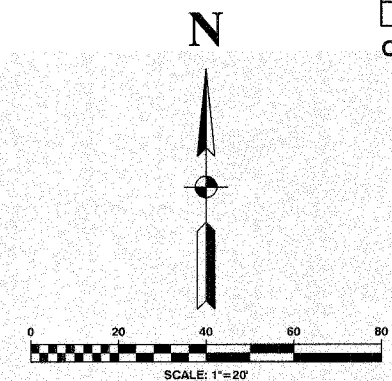
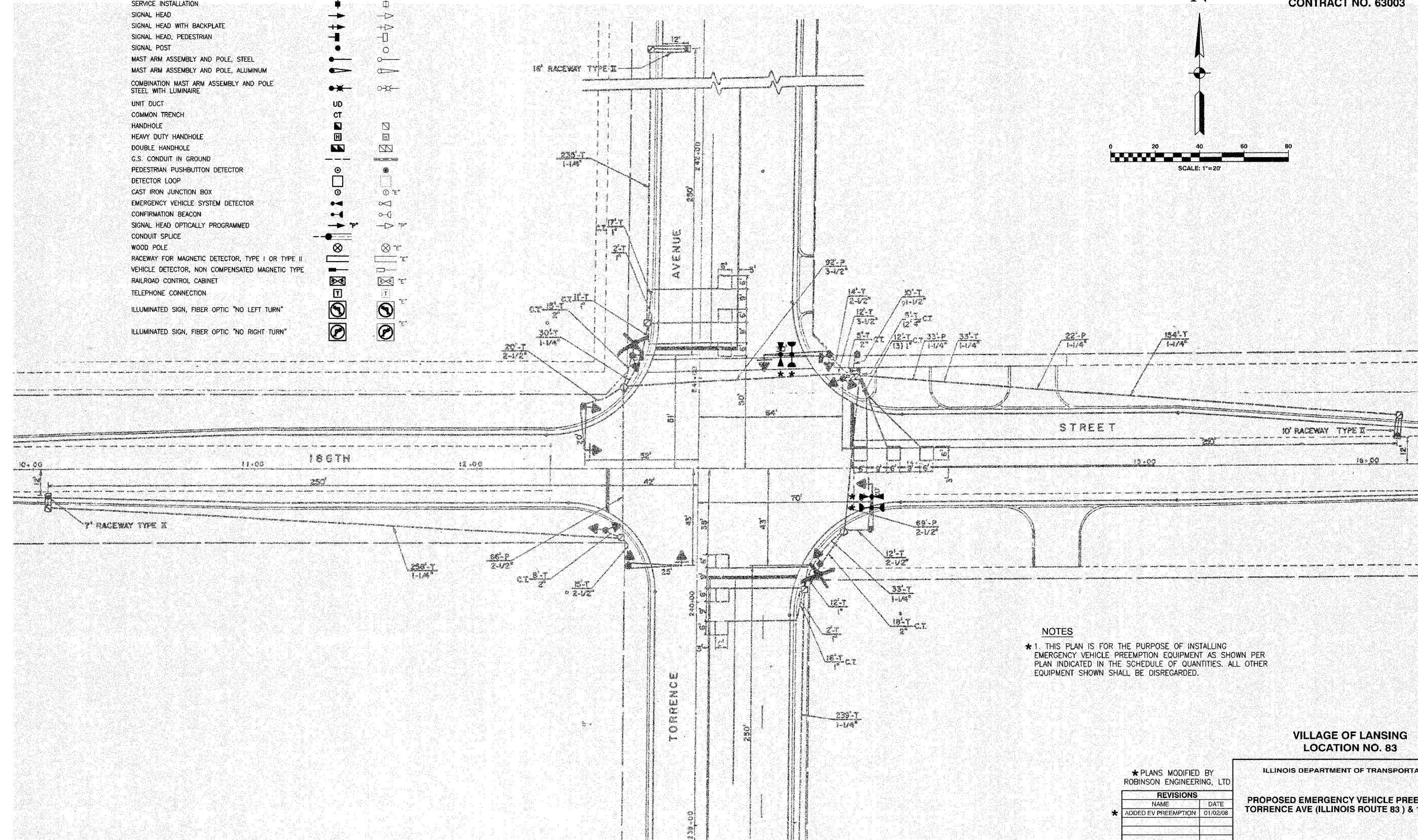
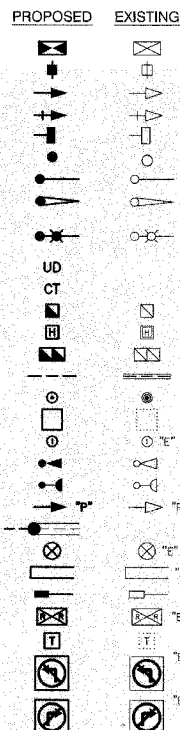
DATE _____ DRAWN BY _____
CHECKED BY _____

F. A. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00146-00-TL	COOK	273	185
STA.		TO STA.		
FED. ROAD DIST. NO.	SLIPNO.	FED. AID PROJECT		

CONTRACT NO. 63003

TRAFFIC SIGNAL LEGEND

- CONTROLLER
- SERVICE INSTALLATION
- SIGNAL HEAD
- SIGNAL HEAD WITH BACKPLATE
- SIGNAL HEAD, PEDESTRIAN
- SIGNAL POST
- MAST ARM ASSEMBLY AND POLE, STEEL
- MAST ARM ASSEMBLY AND POLE, ALUMINUM
- COMBINATION MAST ARM ASSEMBLY AND POLE STEEL WITH LUMINAIRE
- UNIT DUCT
- COMMON TRENCH
- HANDHOLE
- HEAVY DUTY HANDHOLE
- DOUBLE HANDHOLE
- G.S. CONDUIT IN GROUND
- PEDESTRIAN PUSHBUTTON DETECTOR
- DETECTOR LOOP
- CAST IRON JUNCTION BOX
- EMERGENCY VEHICLE SYSTEM DETECTOR
- CONFIRMATION BEACON
- SIGNAL HEAD OPTICALLY PROGRAMMED
- CONDUIT SPLICE
- WOOD POLE
- RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II
- VEHICLE DETECTOR, NON COMPENSATED MAGNETIC TYPE
- RAILROAD CONTROL CABINET
- TELEPHONE CONNECTION
- ILLUMINATED SIGN, FIBER OPTIC "NO LEFT TURN"
- ILLUMINATED SIGN, FIBER OPTIC "NO RIGHT TURN"



NOTES
 * 1. THIS PLAN IS FOR THE PURPOSE OF INSTALLING EMERGENCY VEHICLE PREEMPTION EQUIPMENT AS SHOWN PER PLAN INDICATED IN THE SCHEDULE OF QUANTITIES. ALL OTHER EQUIPMENT SHOWN SHALL BE DISREGARDED.

VILLAGE OF LANSING
 LOCATION NO. 83

* PLANS MODIFIED BY
 ROBINSON ENGINEERING, LTD

REVISIONS	
NAME	DATE
* ADDED EV PREEMPTION	01/02/08

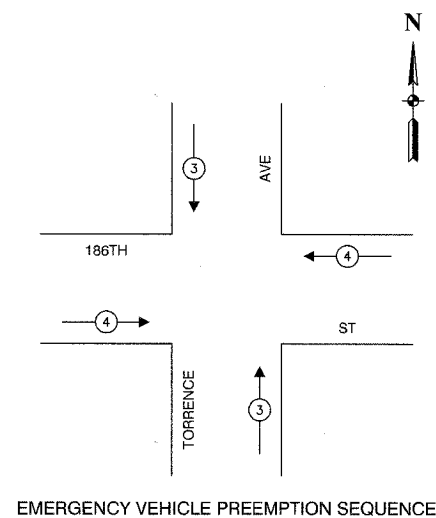
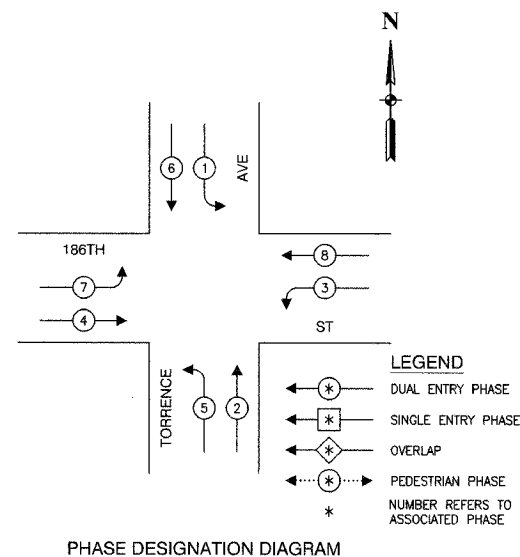
ILLINOIS DEPARTMENT OF TRANSPORTATION
**PROPOSED EMERGENCY VEHICLE PREEMPTION
 TORRENCE AVE (ILLINOIS ROUTE 83) & 186TH ST**

SCALE: VERT. _____
 HORIZ. _____

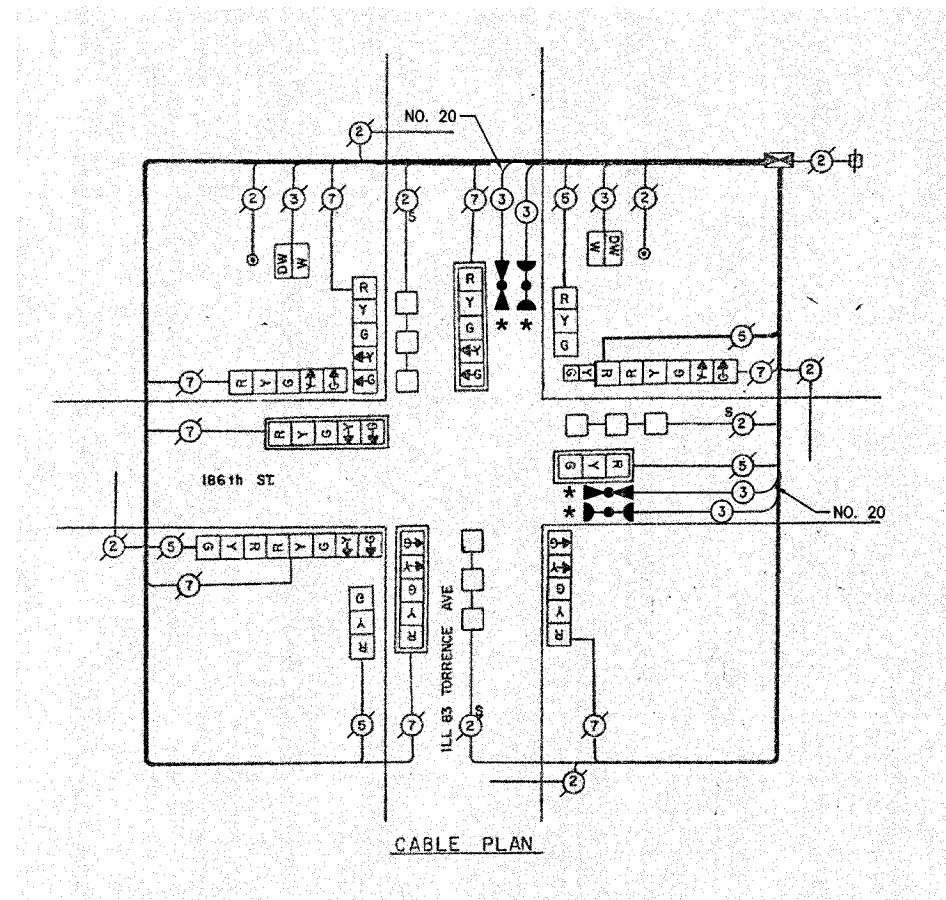
DATE _____ DRAWN BY _____
 CHECKED BY _____

F. A. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00146-00-TL	COOK	273	186
STA.	TO STA.			
FED. ROAD DIST. NO.	SLIPNO.	FED. AID PROJECT		

CONTRACT NO. 63003



PROPOSED EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	↓	←



SCHEDULE OF QUANTITIES		
PAY ITEM	UNIT	QUANTITY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	237
LIGHT DETECTOR	EACH	2
LIGHT DETECTOR AMPLIFIER	EACH	1
ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED	FOOT	237

NOTE

* 1. THIS PLAN IS FOR THE PURPOSE OF INSTALLING EMERGENCY VEHICLE PREEMPTION EQUIPMENT AS SHOWN PER PLAN INDICATED IN THE SCHEDULE OF QUANTITIES. ALL OTHER EQUIPMENT SHOWN SHALL BE DISREGARDED.

EXISTING	PROPOSED	
		8" TRAFFIC SIGNAL SECTION
		12" TRAFFIC SIGNAL SECTION
		12" PEDESTRIAN SIGNAL SECTION
		12" PEDESTRIAN SIGNAL SECTION
		CONTROLLER CABINET
		SERVICE INSTALLATION
		TELEPHONE CONNECTION
		MAGNETIC DETECTOR
		EMERGENCY VEHICLE LIGHT DETECTOR
		CONFIRMATION BEACON
		PUSHBUTTON DETECTOR
		VEHICLE DETECTOR, INDUCTION LOOP
		2 DENOTES NUMBER OF CONDUCTORS. ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED.
		SIGNAL FACE WITH BACKPLATE
		"P" INDICATES PROGRAMMED HEAD
		RAILROAD CONTROL CABINET
		ILLUMINATED SIGN, FIBER OPTIC "NO LEFT TURN"
		ILLUMINATED SIGN, FIBER OPTIC "NO RIGHT TURN"
		H/C GROUND ROD AT HANDHOLE, DOUBLE HANDHOLE, OR CONTROLLER
		P GROUND ROD AT POST OR MAST ARM POLE
		S GROUND ROD AT ELECTRIC SERVICE INSTALLATION

* PLANS MODIFIED BY ROBINSON ENGINEERING, LTD

REVISIONS	
NAME	DATE
ADDED EV PREEMPTION	01/02/08

ILLINOIS DEPARTMENT OF TRANSPORTATION

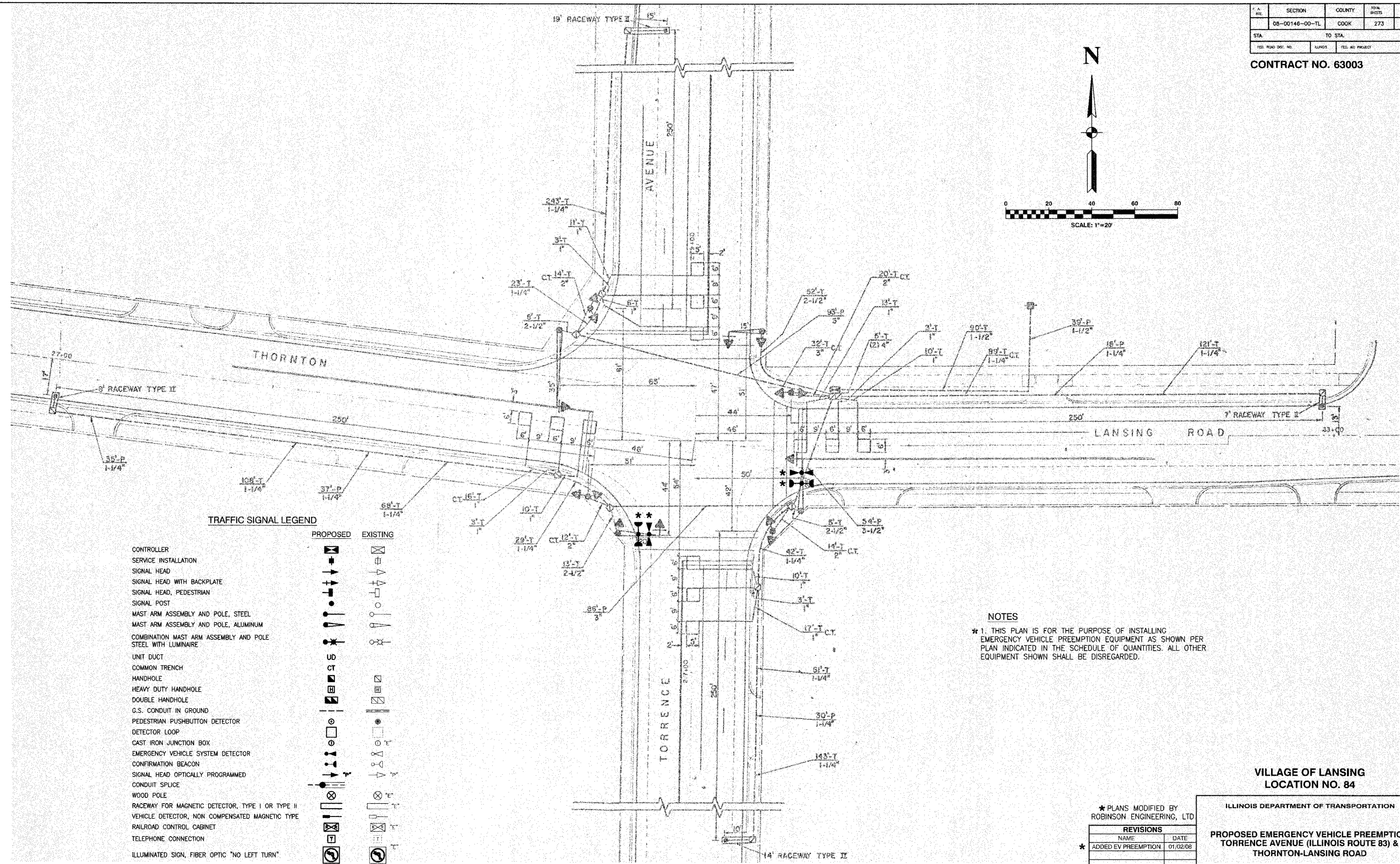
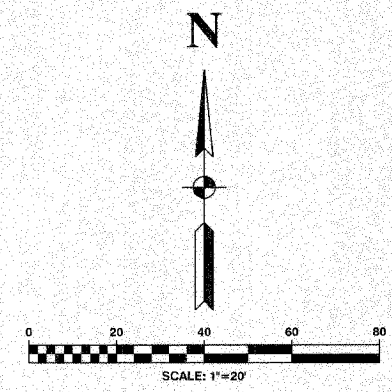
PROPOSED EMERGENCY VEHICLE PREEMPTION CABLE PLAN, PHASE DESIGNATION DIAGRAM & SCHEDULE OF QUANTITIES

TORRENCE AVE (ILLINOIS ROUTE 83) & 186TH ST

SCALE: VERT. _____ DRAWN BY _____
 HORIZ. _____ CHECKED BY _____
 DATE _____

F. A. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00146-00-TL	COOK	273	187
STA.		TO STA.		
TEL. ROAD DIST. NO.	LANDS	TEL. RD. PROJECT		

CONTRACT NO. 63003



TRAFFIC SIGNAL LEGEND

	PROPOSED	EXISTING
CONTROLLER		
SERVICE INSTALLATION		
SIGNAL HEAD		
SIGNAL HEAD WITH BACKPLATE		
SIGNAL HEAD, PEDESTRIAN		
SIGNAL POST		
MAST ARM ASSEMBLY AND POLE, STEEL		
MAST ARM ASSEMBLY AND POLE, ALUMINUM		
COMBINATION MAST ARM ASSEMBLY AND POLE STEEL WITH LUMINAIRE		
UNIT DUCT		
COMMON TRENCH		
HANDHOLE		
HEAVY DUTY HANDHOLE		
DOUBLE HANDHOLE		
G.S. CONDUIT IN GROUND		
PEDESTRIAN PUSHBUTTON DETECTOR		
DETECTOR LOOP		
CAST IRON JUNCTION BOX		
EMERGENCY VEHICLE SYSTEM DETECTOR		
CONFIRMATION BEACON		
SIGNAL HEAD OPTICALLY PROGRAMMED		
CONDUIT SPLICE		
WOOD POLE		
RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II		
VEHICLE DETECTOR, NON COMPENSATED MAGNETIC TYPE		
RAILROAD CONTROL CABINET		
TELEPHONE CONNECTION		
ILLUMINATED SIGN, FIBER OPTIC "NO LEFT TURN"		
ILLUMINATED SIGN, FIBER OPTIC "NO RIGHT TURN"		

NOTES
 * 1. THIS PLAN IS FOR THE PURPOSE OF INSTALLING EMERGENCY VEHICLE PREEMPTION EQUIPMENT AS SHOWN PER PLAN INDICATED IN THE SCHEDULE OF QUANTITIES. ALL OTHER EQUIPMENT SHOWN SHALL BE DISREGARDED.

**VILLAGE OF LANSING
 LOCATION NO. 84**

* PLANS MODIFIED BY
 ROBINSON ENGINEERING, LTD

REVISIONS	
NAME	DATE
* ADDED EV PREEMPTION	01/02/08

ILLINOIS DEPARTMENT OF TRANSPORTATION
**PROPOSED EMERGENCY VEHICLE PREEMPTION
 TORRENCE AVENUE (ILLINOIS ROUTE 83) &
 THORNTON-LANSING ROAD**

SCALE: VERT. _____
 HORIZ. _____

DATE _____ DRAWN BY _____
 CHECKED BY _____

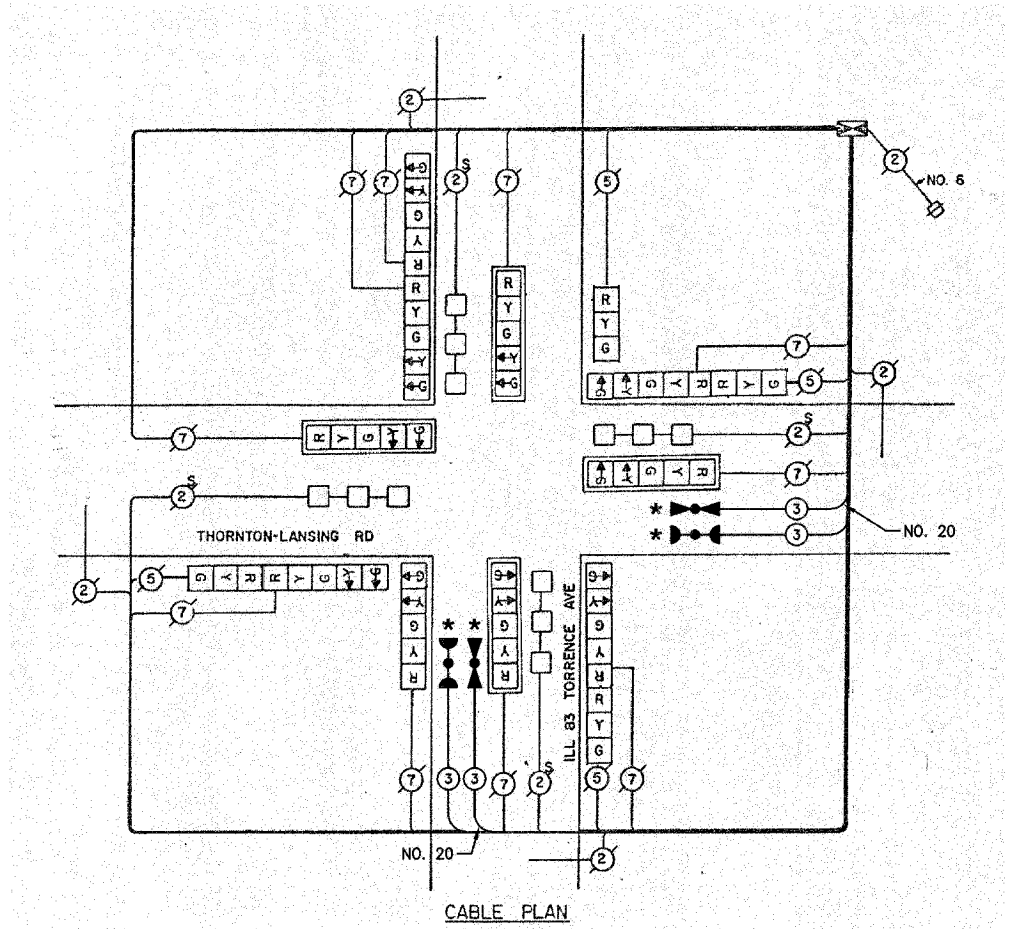
F. A. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00146-00-TL	COOK	273	188
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 63003

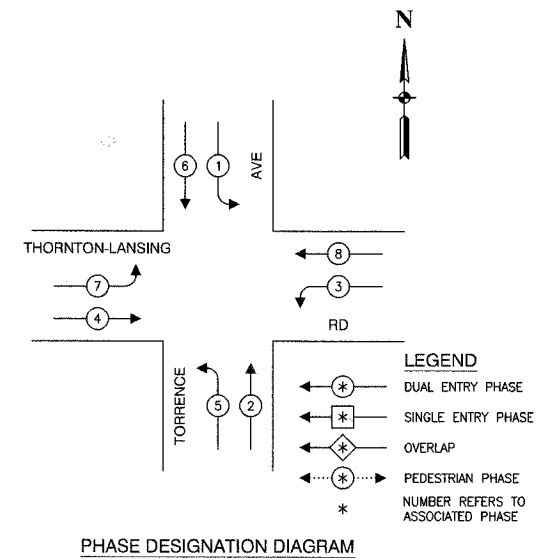


CABLE PLAN LEGEND

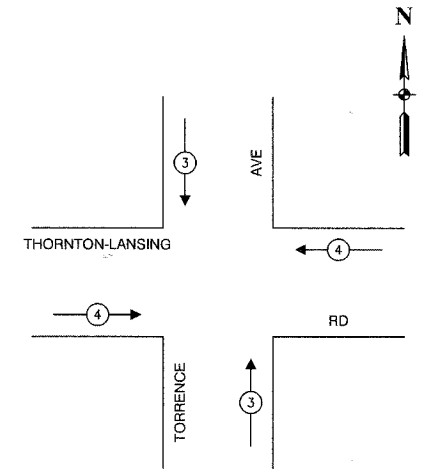
- | | | |
|-----------------|-----------------|---|
| EXISTING | PROPOSED | |
| | | 8" TRAFFIC SIGNAL SECTION |
| | | 12" TRAFFIC SIGNAL SECTION |
| | | 12" PEDESTRIAN SIGNAL SECTION |
| | | 12" PEDESTRIAN SIGNAL SECTION |
| | | CONTROLLER CABINET |
| | | SERVICE INSTALLATION |
| | | TELEPHONE CONNECTION |
| | | MAGNETIC DETECTOR |
| | | EMERGENCY VEHICLE LIGHT DETECTOR |
| | | CONFIRMATION BEACON |
| | | PUSHBUTTON DETECTOR |
| | | VEHICLE DETECTOR, INDUCTION LOOP |
| | | DENOTES NUMBER OF CONDUCTORS. ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED. |
| | | SIGNAL FACE WITH BACKPLATE |
| | | "P" INDICATES PROGRAMMED HEAD |
| | | RAILROAD CONTROL CABINET |
| | | ILLUMINATED SIGN, FIBER OPTIC "NO LEFT TURN" |
| | | ILLUMINATED SIGN, FIBER OPTIC "NO RIGHT TURN" |
| | | GROUND ROD AT HANDHOLE, DOUBLE HANDHOLE, OR CONTROLLER |
| | | GROUND ROD AT POST OR MAST ARM POLE |
| | | GROUND ROD AT ELECTRIC SERVICE INSTALLATION |



CABLE PLAN



PHASE DESIGNATION DIAGRAM



EMERGENCY VEHICLE PREEMPTION SEQUENCE

PROPOSED EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	↓	↑
	↑	↓
	←	→

SCHEDULE OF QUANTITIES		
PAY ITEM	UNIT	QUANTITY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	357
LIGHT DETECTOR	EACH	2
LIGHT DETECTOR AMPLIFIER	EACH	1
ELECTRIC CABLE IN CONDUIT NO. 20 3/C. TWISTED, SHIELDED	FOOT	367

NOTE
 * 1. THIS PLAN IS FOR THE PURPOSE OF INSTALLING EMERGENCY VEHICLE PREEMPTION EQUIPMENT AS SHOWN PER PLAN INDICATED IN THE SCHEDULE OF QUANTITIES. ALL OTHER EQUIPMENT SHOWN SHALL BE DISREGARDED.

* PLANS MODIFIED BY ROBINSON ENGINEERING, LTD

REVISIONS	
NAME	DATE
* ADDED EV PREEMPTION	01/02/08

ILLINOIS DEPARTMENT OF TRANSPORTATION
**VILLAGE OF LANSING
 LOCATION NO. 84**

**PROPOSED EMERGENCY VEHICLE PREEMPTION
 CABLE PLAN, PHASE DESIGNATION DIAGRAM &
 SCHEDULE OF QUANTITIES
 TORRENCE AVENUE (ILLINOIS ROUTE 83) &
 THORNTON-LANSING ROAD**

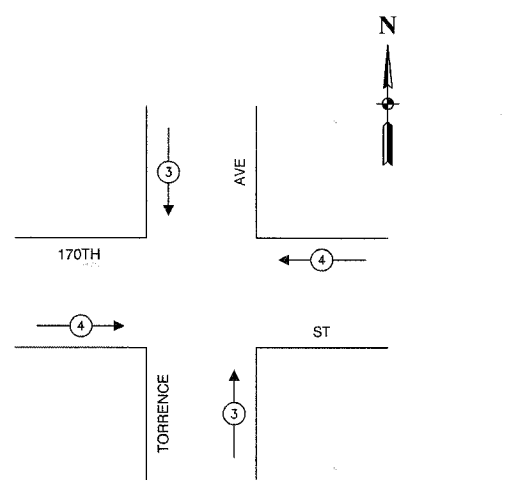
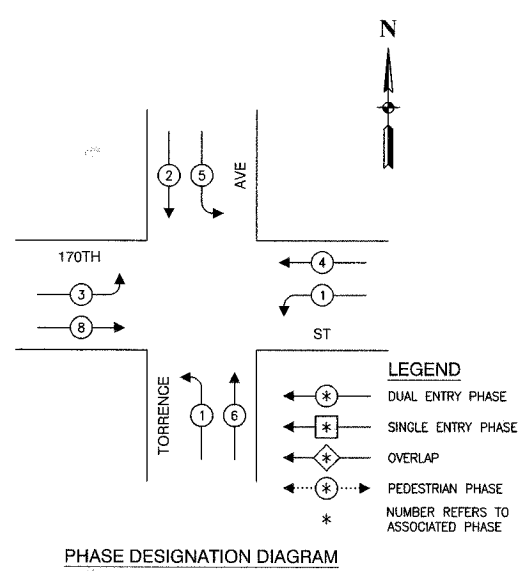
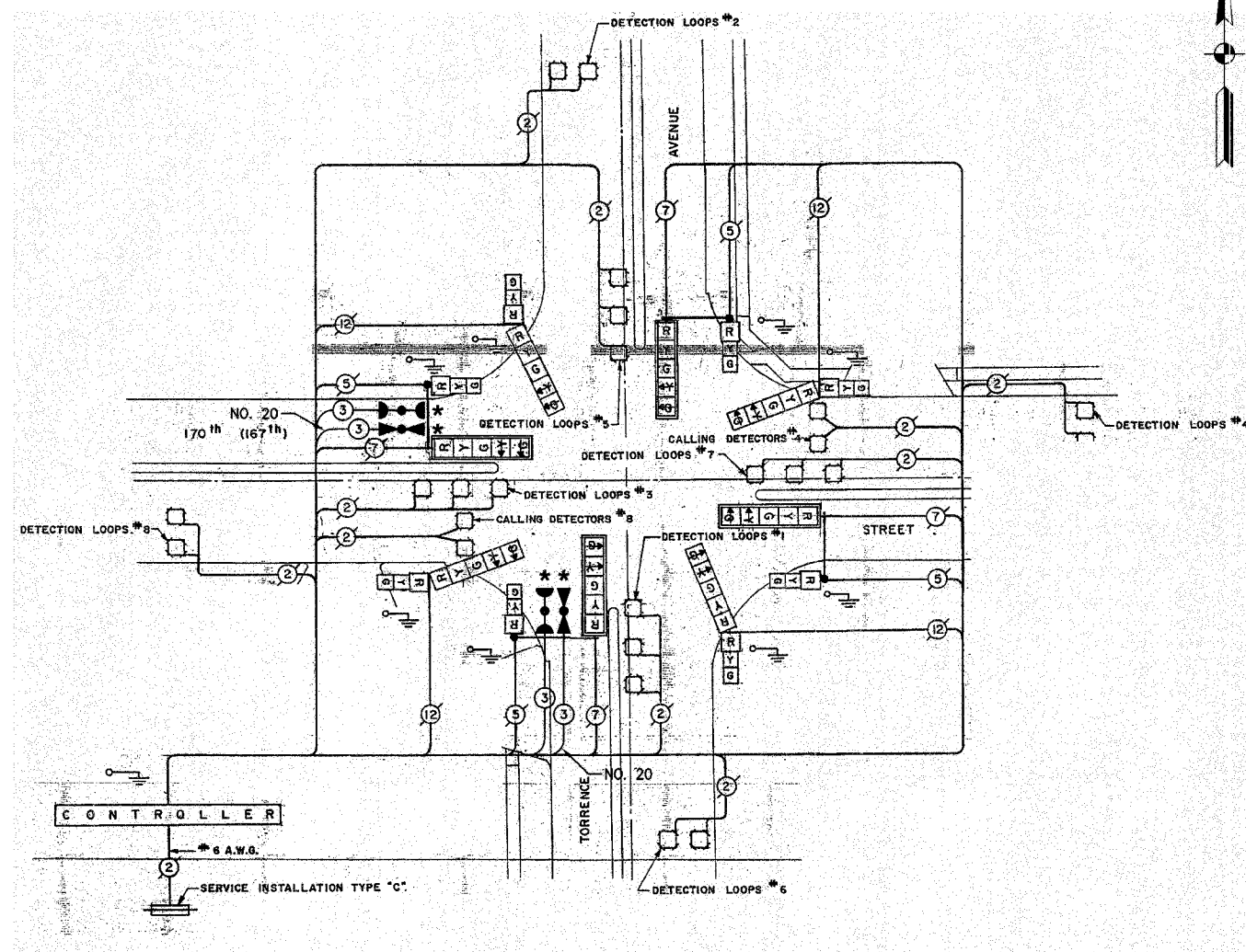
SCALE: VERT. _____ DRAWN BY _____
 HORIZ. _____ CHECKED BY _____
 DATE _____

F. A. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00146-00-TL	COOK	273	190
STA.	TO STA.			
FED. ROAD DIST. NO.	SLIPPS	FED. AID PROJECT		

CONTRACT NO. 63003

CABLE PLAN LEGEND

EXISTING	PROPOSED	
		8" TRAFFIC SIGNAL SECTION
		12" TRAFFIC SIGNAL SECTION
		12" PEDESTRIAN SIGNAL SECTION
		12" PEDESTRIAN SIGNAL SECTION
		CONTROLLER CABINET
		SERVICE INSTALLATION
		TELEPHONE CONNECTION
		MAGNETIC DETECTOR
		EMERGENCY VEHICLE LIGHT DETECTOR
		CONFIRMATION BEACON
		PUSHBUTTON DETECTOR
		VEHICLE DETECTOR, INDUCTION LOOP
		DENOTES NUMBER OF CONDUCTORS. ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED.
		SIGNAL FACE WITH BACKPLATE
		"P" INDICATES PROGRAMMED HEAD
		RAILROAD CONTROL CABINET
		ILLUMINATED SIGN, FIBER OPTIC "NO LEFT TURN"
		ILLUMINATED SIGN, FIBER OPTIC "NO RIGHT TURN"
		GROUND ROD AT HANDHOLE, DOUBLE HANDHOLE, OR CONTROLLER
		GROUND ROD AT POST OR MAST ARM POLE
		GROUND ROD AT ELECTRIC SERVICE INSTALLATION



SCHEDULE OF QUANTITIES		
PAY ITEM	UNIT	QUANTITY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	300
LIGHT DETECTOR	EACH	2
LIGHT DETECTOR AMPLIFIER	EACH	1
ELECTRIC CABLE IN CONDUIT NO. 20 3/C. TWISTED, SHIELDED	FOOT	300

NOTE
 * 1. THIS PLAN IS FOR THE PURPOSE OF INSTALLING EMERGENCY VEHICLE PREEMPTION EQUIPMENT AS SHOWN PER PLAN INDICATED IN THE SCHEDULE OF QUANTITIES. ALL OTHER EQUIPMENT SHOWN SHALL BE DISREGARDED.

* PLANS MODIFIED BY ROBINSON ENGINEERING, LTD

REVISIONS	
NAME	DATE
ADDED EV PREEMPTION	01/02/08

VILLAGE OF LANSING
 LOCATION NO. 86

ILLINOIS DEPARTMENT OF TRANSPORTATION

PROPOSED EMERGENCY VEHICLE PREEMPTION CABLE PLAN, PHASE DESIGNATION DIAGRAM & SCHEDULE OF QUANTITIES
 TORRENCE AVE (IL RT 83) & 170TH ST (167TH ST)

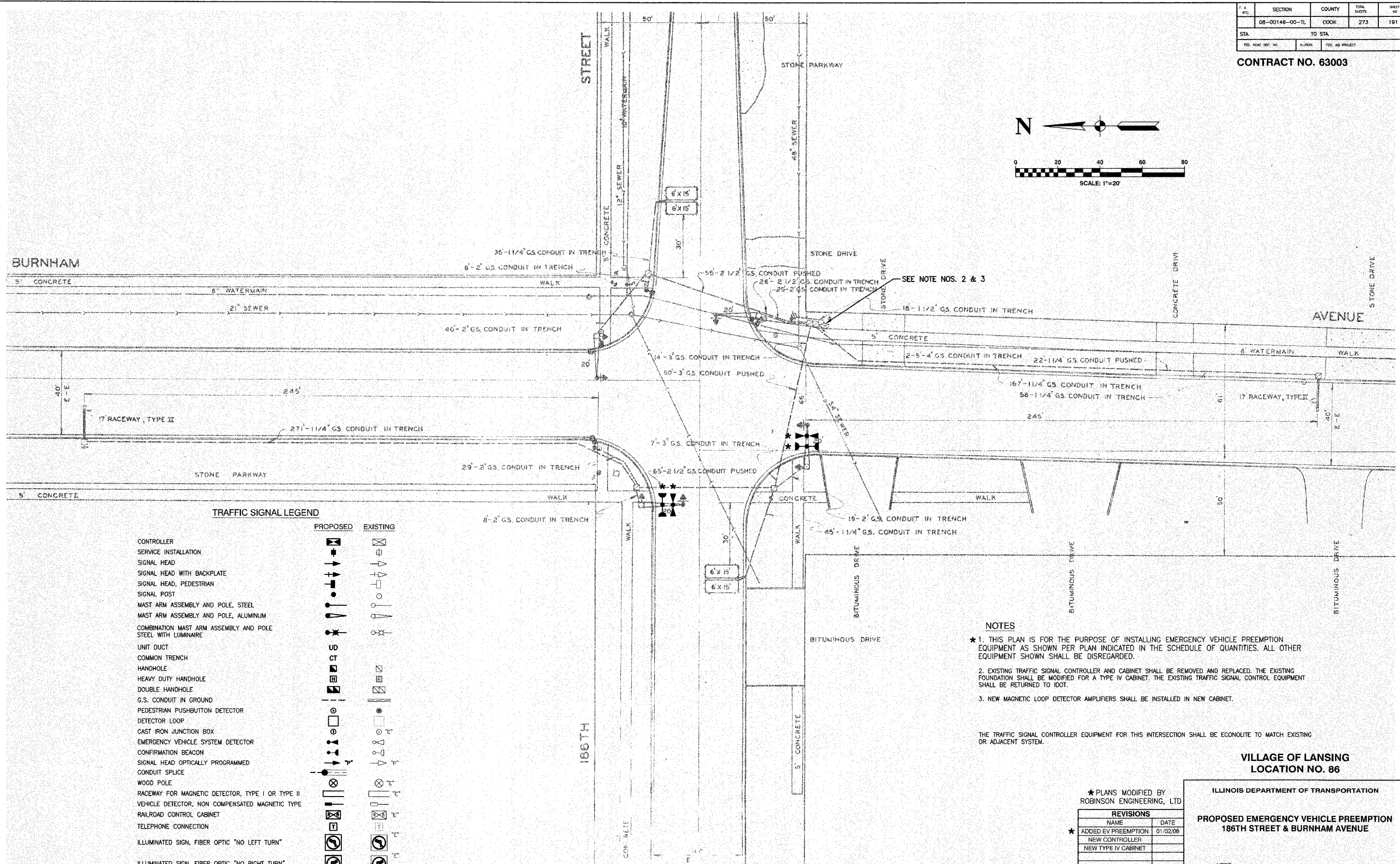
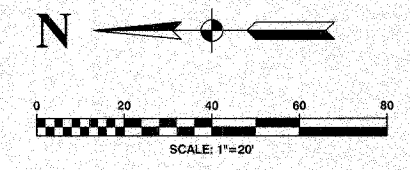
SCALE: VERT. _____
 HORIZ. _____

DATE _____ DRAWN BY _____
 CHECKED BY _____

ROBINSON ENGINEERING, LTD.
 17100 SOUTH PARK AVENUE SOUTH HOLLAND, ILLINOIS 60478
 (708) 331-8100 FAX (708) 331-3868
 ILLINOIS DESIGN FIRM REGISTRATION NO. 184011126

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
08-00146-00-TL	COOK	273	191
STA.	TO STA.		
FED. ROAD DIST. NO.	ALIGNED	FED. AID PROJECT	

CONTRACT NO. 63003



TRAFFIC SIGNAL LEGEND

	PROPOSED	EXISTING
CONTROLLER		
SERVICE INSTALLATION		
SIGNAL HEAD		
SIGNAL HEAD WITH BACKPLATE		
SIGNAL HEAD, PEDESTRIAN		
SIGNAL POST		
MAST ARM ASSEMBLY AND POLE, STEEL		
MAST ARM ASSEMBLY AND POLE, ALUMINUM		
COMBINATION MAST ARM ASSEMBLY AND POLE STEEL WITH LUMINAIRE		
UNIT DUCT		
COMMON TRENCH		
HANDHOLE		
HEAVY DUTY HANDHOLE		
DOUBLE HANDHOLE		
G.S. CONDUIT IN GROUND		
PEDESTRIAN PUSHBUTTON DETECTOR		
DETECTOR LOOP		
CAST IRON JUNCTION BOX		
EMERGENCY VEHICLE SYSTEM DETECTOR		
CONFIRMATION BEACON		
SIGNAL HEAD OPTICALLY PROGRAMMED		
CONDUIT SPLICE		
WOOD POLE		
RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II		
VEHICLE DETECTOR, NON COMPENSATED MAGNETIC TYPE		
RAILROAD CONTROL CABINET		
TELEPHONE CONNECTION		
ILLUMINATED SIGN, FIBER OPTIC "NO LEFT TURN"		
ILLUMINATED SIGN, FIBER OPTIC "NO RIGHT TURN"		

NOTES

- * 1. THIS PLAN IS FOR THE PURPOSE OF INSTALLING EMERGENCY VEHICLE PREEMPTION EQUIPMENT AS SHOWN PER PLAN INDICATED IN THE SCHEDULE OF QUANTITIES. ALL OTHER EQUIPMENT SHOWN SHALL BE DISREGARDED.
- 2. EXISTING TRAFFIC SIGNAL CONTROLLER AND CABINET SHALL BE REMOVED AND REPLACED. THE EXISTING FOUNDATION SHALL BE MODIFIED FOR A TYPE IV CABINET. THE EXISTING TRAFFIC SIGNAL CONTROL EQUIPMENT SHALL BE RETURNED TO IDOT.
- 3. NEW MAGNETIC LOOP DETECTOR AMPLIFIERS SHALL BE INSTALLED IN NEW CABINET.

THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS INTERSECTION SHALL BE ECONOLITE TO MATCH EXISTING OR ADJACENT SYSTEM.

**VILLAGE OF LANSING
LOCATION NO. 86**

* PLANS MODIFIED BY
ROBINSON ENGINEERING, LTD

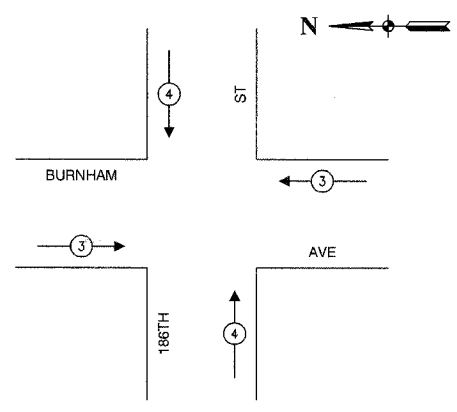
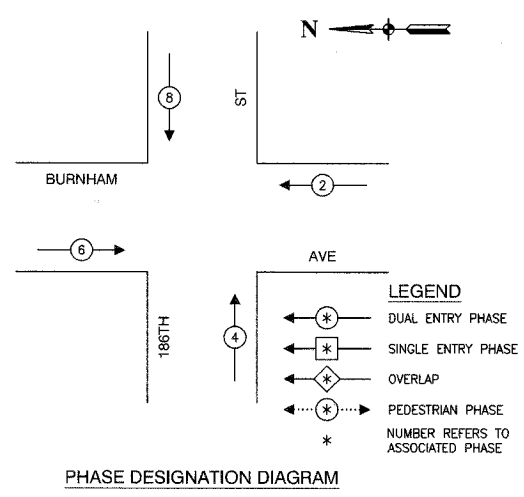
REVISIONS	
NAME	DATE
* ADDED EV PREEMPTION	01/02/08
NEW CONTROLLER	
NEW TYPE IV CABINET	

**ILLINOIS DEPARTMENT OF TRANSPORTATION
PROPOSED EMERGENCY VEHICLE PREEMPTION
186TH STREET & BURNHAM AVENUE**

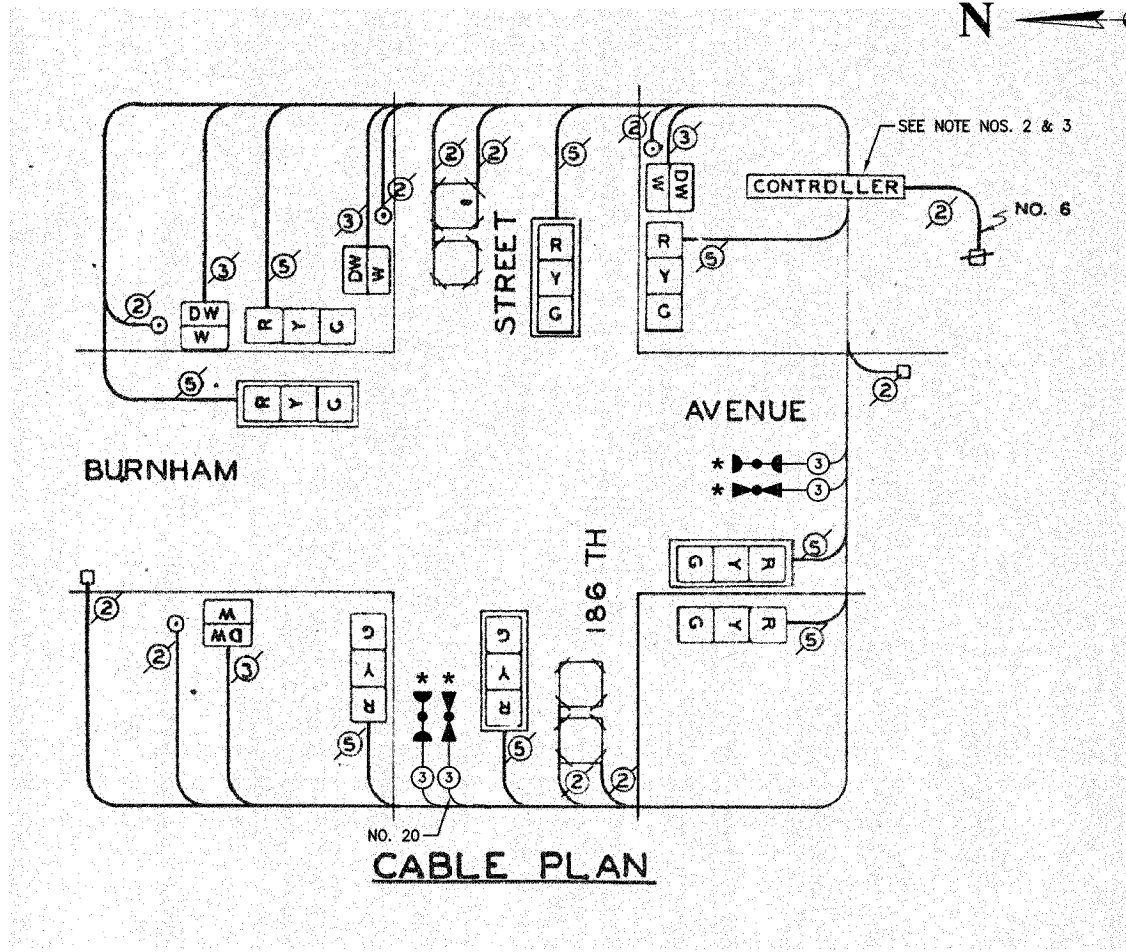
SCALE: VERT. _____
HORIZ. _____
DATE _____ DRAWN BY _____
CHECKED BY _____

F. A. ETC.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00146-00-TL	COOK	273	192
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 63003



PROPOSED EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	← →	↓ ↑



SCHEDULE OF QUANTITIES		
PAY ITEM	UNIT	QUANTITY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	399
INDUCTIVE LOOP DETECTOR	EACH	4
LIGHT DETECTOR	EACH	2
LIGHT DETECTOR AMPLIFIER	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED	FOOT	399
MODIFY EXISTING TYPE "D" FOUNDATION	EACH	1
MAGNETIC DETECTOR AMPLIFIER	EACH	2

NOTE

- THIS PLAN IS FOR THE PURPOSE OF INSTALLING EMERGENCY VEHICLE PREEMPTION EQUIPMENT AS SHOWN PER PLAN INDICATED IN THE SCHEDULE OF QUANTITIES. ALL OTHER EQUIPMENT SHOWN SHALL BE DISREGARDED.
- EXISTING TRAFFIC SIGNAL CONTROLLER AND CABINET SHALL BE REMOVED AND REPLACED. THE EXISTING FOUNDATION SHALL BE MODIFIED FOR A TYPE IV CABINET. THE EXISTING TRAFFIC SIGNAL CONTROL EQUIPMENT SHALL BE RETURNED TO IDOT.
- NEW MAGNETIC LOOP DETECTOR AMPLIFIERS SHALL BE INSTALLED IN NEW CABINET.

CABLE PLAN LEGEND

EXISTING	PROPOSED	
(G)	(G)	8" TRAFFIC SIGNAL SECTION
(R)	(R)	12" TRAFFIC SIGNAL SECTION
(W)	(W)	12" PEDESTRIAN SIGNAL SECTION
(H)	(H)	12" PEDESTRIAN SIGNAL SECTION
(C)	(C)	CONTROLLER CABINET
(S)	(S)	SERVICE INSTALLATION
(T)	(T)	TELEPHONE CONNECTION
(M)	(M)	MAGNETIC DETECTOR
(E)	(E)	EMERGENCY VEHICLE LIGHT DETECTOR
(B)	(B)	CONFIRMATION BEACON
(P)	(P)	PUSHBUTTON DETECTOR
(V)	(V)	VEHICLE DETECTOR, INDUCTION LOOP
(N)	(N)	DENOTES NUMBER OF CONDUCTORS. ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED.
(R)	(R)	SIGNAL FACE WITH BACKPLATE
(P)	(P)	"P" INDICATES PROGRAMMED HEAD
(R)	(R)	RAILROAD CONTROL CABINET
(E)	(E)	ILLUMINATED SIGN, FIBER OPTIC "NO LEFT TURN"
(E)	(E)	ILLUMINATED SIGN, FIBER OPTIC "NO RIGHT TURN"
H/C	H/C	GROUND ROD AT HANDHOLE, DOUBLE HANDHOLE, OR CONTROLLER
P	P	GROUND ROD AT POST OR MAST ARM POLE
S	S	GROUND ROD AT ELECTRIC SERVICE INSTALLATION

* PLANS MODIFIED BY ROBINSON ENGINEERING, LTD.

REVISIONS	
NAME	DATE
ADDED EV PREEMPTION	01/02/08
NEW CONTROLLER	
NEW TYPE IV CABINET	

VILLAGE OF LANSING
LOCATION NO. 86

ILLINOIS DEPARTMENT OF TRANSPORTATION

PROPOSED EMERGENCY VEHICLE PREEMPTION CABLE PLAN, PHASE DESIGNATION DIAGRAM & SCHEDULE OF QUANTITIES
186TH STREET & BURNHAM AVENUE

SCALE: VERT. _____
HORIZ. _____

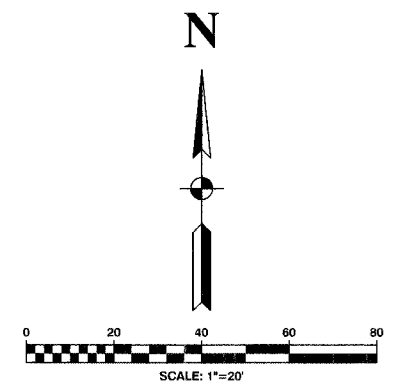
DRAWN BY _____
CHECKED BY _____

F. A. ETC.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00146-00-TL	COOK	273	193
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 63003

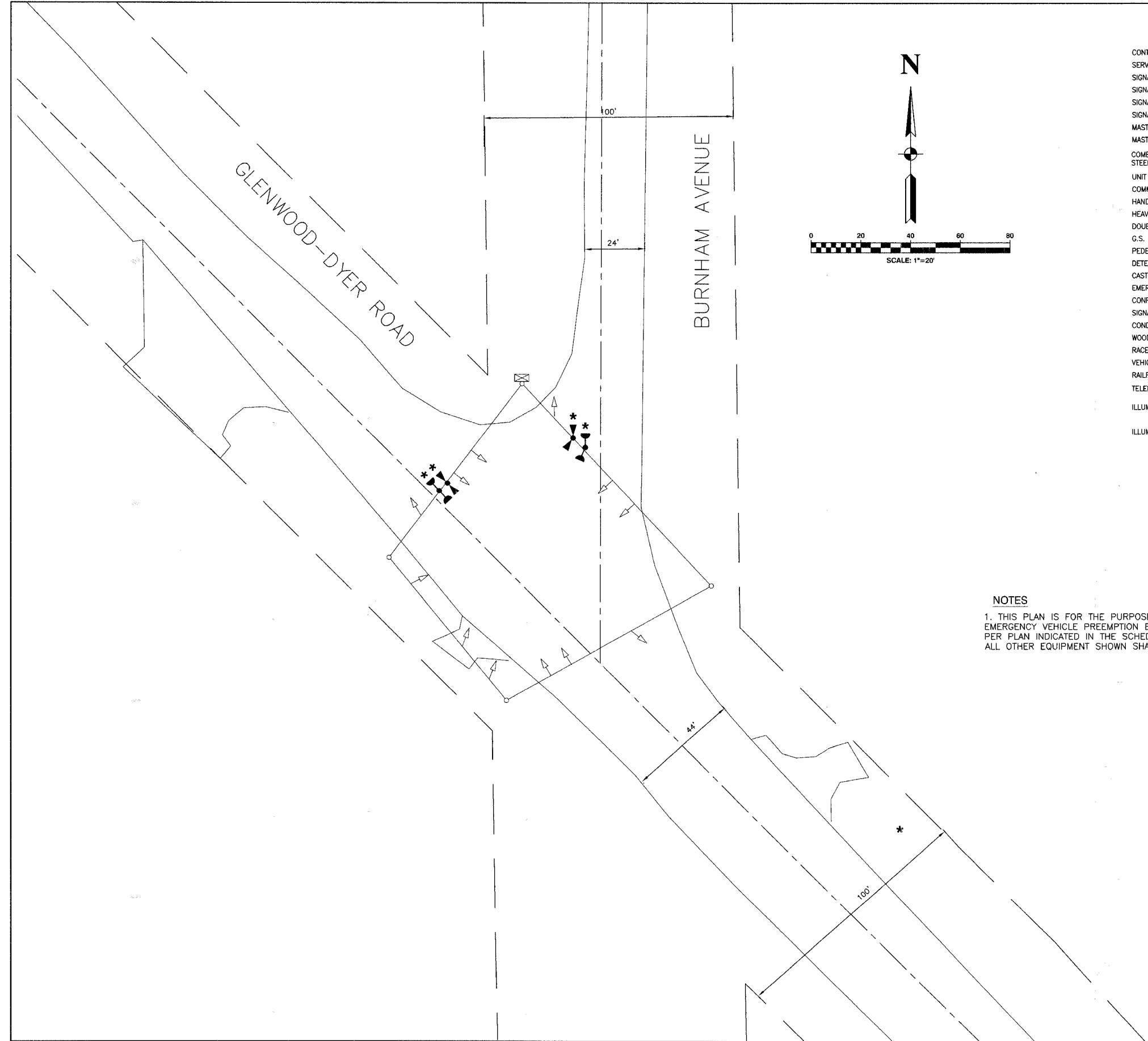
TRAFFIC SIGNAL LEGEND

- | | PROPOSED | EXISTING |
|---|----------|----------|
| CONTROLLER | | |
| SERVICE INSTALLATION | | |
| SIGNAL HEAD | | |
| SIGNAL HEAD WITH BACKPLATE | | |
| SIGNAL HEAD, PEDESTRIAN | | |
| SIGNAL POST | | |
| MAST ARM ASSEMBLY AND POLE, STEEL | | |
| MAST ARM ASSEMBLY AND POLE, ALUMINUM | | |
| COMBINATION MAST ARM ASSEMBLY AND POLE STEEL WITH LUMINAIRE | | |
| UNIT DUCT | | |
| COMMON TRENCH | | |
| HANDHOLE | | |
| HEAVY DUTY HANDHOLE | | |
| DOUBLE HANDHOLE | | |
| G.S. CONDUIT IN GROUND | | |
| PEDESTRIAN PUSHBUTTON DETECTOR | | |
| DETECTOR LOOP | | |
| CAST IRON JUNCTION BOX | | |
| EMERGENCY VEHICLE SYSTEM DETECTOR | | |
| CONFIRMATION BEACON | | |
| SIGNAL HEAD OPTICALLY PROGRAMMED | | |
| CONDUIT SPLICE | | |
| WOOD POLE | | |
| RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II | | |
| VEHICLE DETECTOR, NON COMPENSATED MAGNETIC TYPE | | |
| RAILROAD CONTROL CABINET | | |
| TELEPHONE CONNECTION | | |
| ILLUMINATED SIGN, FIBER OPTIC "NO LEFT TURN" | | |
| ILLUMINATED SIGN, FIBER OPTIC "NO RIGHT TURN" | | |



NOTES

1. THIS PLAN IS FOR THE PURPOSE OF INSTALLING EMERGENCY VEHICLE PREEMPTION EQUIPMENT AS SHOWN PER PLAN INDICATED IN THE SCHEDULE OF QUANTITIES. ALL OTHER EQUIPMENT SHOWN SHALL BE DISREGARDED.



VILLAGE OF LYNWOOD
LOCATION NO. 87

* PLANS MODIFIED BY
ROBINSON ENGINEERING, LTD

REVISIONS	
NAME	DATE
* ADDED EV PREEMPTION	01/02/08

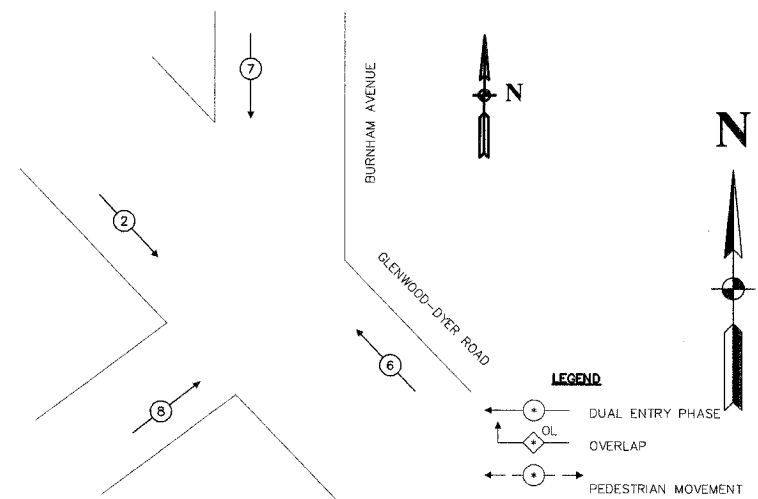
ILLINOIS DEPARTMENT OF TRANSPORTATION
**PROPOSED EMERGENCY VEHICLE PREEMPTION
GLENWOOD-DYER ROAD & BURNHAM AVENUE**

SCALE: VERT. _____
HORIZ. _____
DATE _____ DRAWN BY _____
CHECKED BY _____

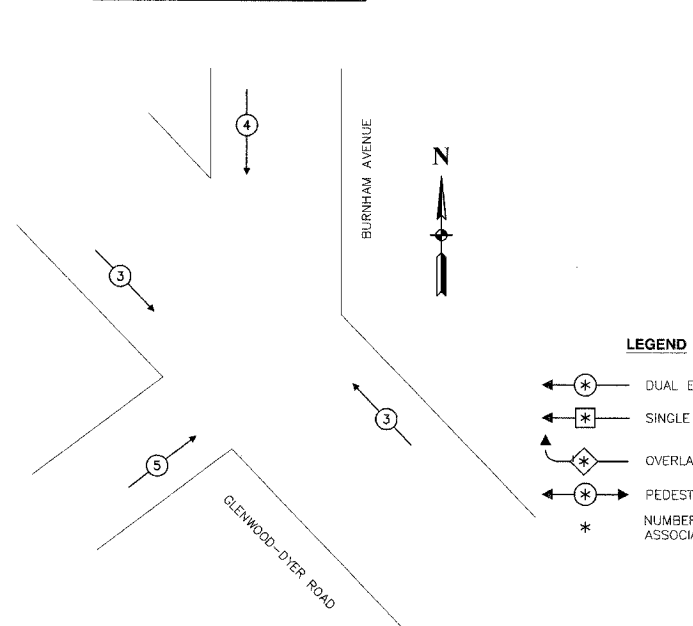
F. A. ETC.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00146-00-TL	COOK	273	194
STA.		TO STA.		
FED. ROAD DIST. NO.	BLANKET	FED. AID PROJECT		

CONTRACT NO. 63003

CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM



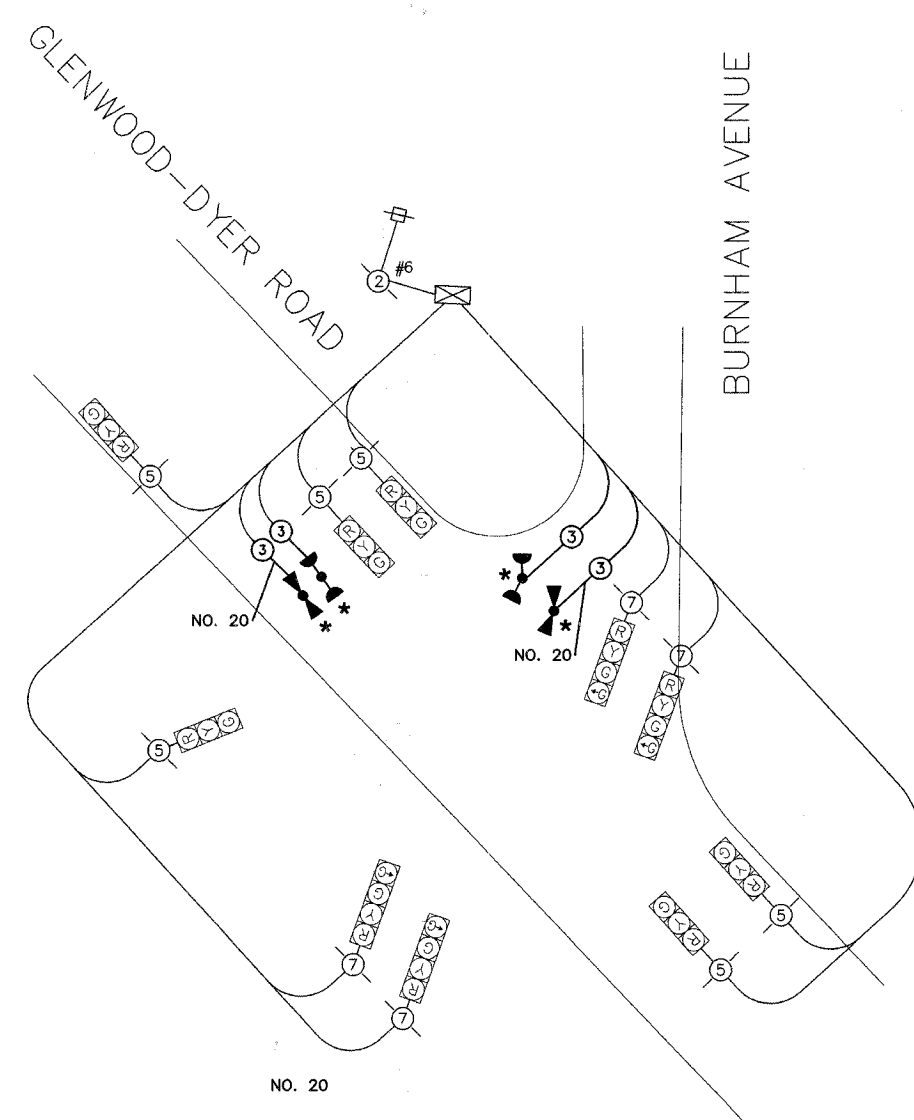
EMERGENCY VEHICLE PREEMPTION SEQUENCE

PROPOSED EMERGENCY VEHICLE PREEMPTORS			
EMERGENCY VEHICLE PREEMPTOR	3	4	5
MOVEMENT	↘	↓	↗

EXISTING	PROPOSED	
		8" TRAFFIC SIGNAL SECTION
		12" TRAFFIC SIGNAL SECTION
		12" PEDESTRIAN SIGNAL SECTION
		12" PEDESTRIAN SIGNAL SECTION
		CONTROLLER CABINET
		SERVICE INSTALLATION
		TELEPHONE CONNECTION
		MAGNETIC DETECTOR
		EMERGENCY VEHICLE LIGHT DETECTOR
		CONFIRMATION BEACON
		PUSHBUTTON DETECTOR
		VEHICLE DETECTOR, INDUCTION LOOP
		SIGNAL FACE WITH BACKPLATE
		RAILROAD CONTROL CABINET
		ILLUMINATED SIGN, FIBER OPTIC
		ILLUMINATED SIGN, FIBER OPTIC
		GROUND ROD AT HANDHOLE, DOUBLE HANDHOLE, OR CONTROLLER
		GROUND ROD AT POST OR MAST ARM POLE
		GROUND ROD AT ELECTRIC SERVICE INSTALLATION

LEGEND
 DUAL ENTRY PHASE
 OVERLAP
 PEDESTRIAN MOVEMENT
 * NUMBER REFERS TO ASSOCIATED PHASE

LEGEND
 DUAL ENTRY PHASE
 SINGLE ENTRY PHASE
 OVERLAP
 PEDESTRIAN PHASE
 * NUMBER REFERS TO ASSOCIATED PHASE



CABLE PLAN

SCHEDULE OF QUANTITIES		
PAY ITEM	UNIT	QUANTITY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE AERIAL SUSPENDED, SIGNAL, NO. 14 3C	FOOT	239
LIGHT DETECTOR	EACH	2
LIGHT DETECTOR AMPLIFIER	EACH	1
ELECTRIC CABLE AERIAL SUSPENDED NO. 20 3/C, TWISTED, SHIELDED	FOOT	239

NOTE
 * 1. THIS PLAN IS FOR THE PURPOSE OF INSTALLING EMERGENCY VEHICLE PREEMPTION EQUIPMENT AS SHOWN PER PLAN INDICATED IN THE SCHEDULE OF QUANTITIES. ALL OTHER EQUIPMENT SHOWN SHALL BE DISREGARDED.

* PLANS MODIFIED BY ROBINSON ENGINEERING, LTD.

REVISIONS	
NAME	DATE
ADDED EV PREEMPTION	01/02/08
ADDED NEW 18" POST	

VILLAGE OF LYNWOOD
 LOCATION NO. 87

ILLINOIS DEPARTMENT OF TRANSPORTATION

PROPOSED EMERGENCY VEHICLE PREEMPTION CABLE PLAN, PHASE DESIGNATION DIAGRAM & SCHEDULE OF QUANTITIES
 GLENWOOD DYER ROAD & BURNHAM AVENUE

SCALE: VERT. _____
 HORIZ. _____
 DATE _____

DRAWN BY _____
 CHECKED BY _____

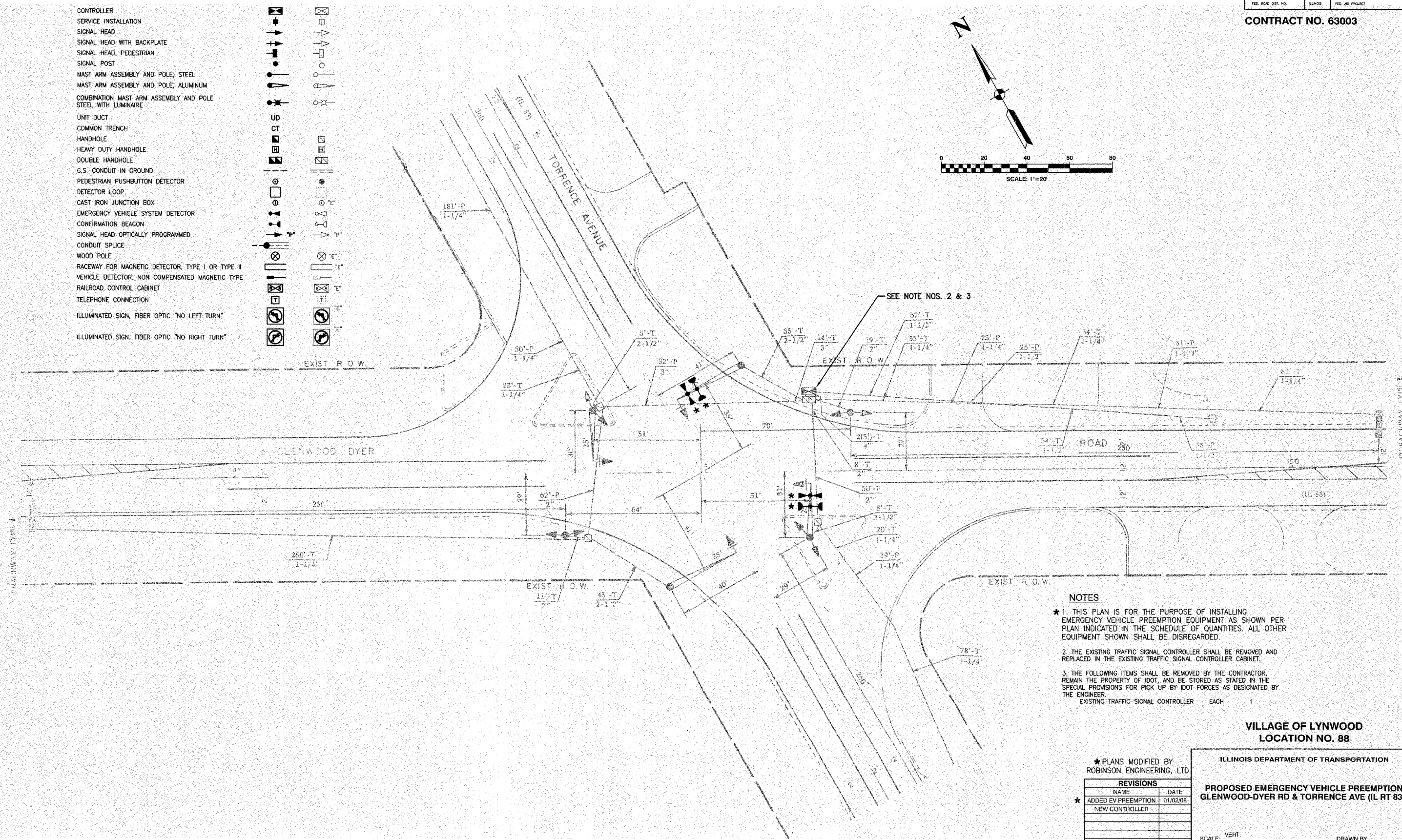
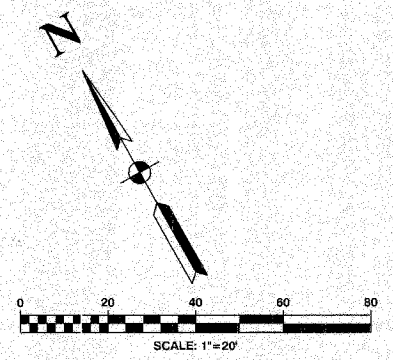
ROBINSON ENGINEERING, LTD.
 17000 SOUTH PARK AVENUE SOUTH HOLLAND, ILLINOIS 60473
 (708) 521-8700 FAX (708) 521-3808
 ILLINOIS DESIGN PROFESSIONAL REGISTRATION NO. 184201125

P.A. SHT.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00146-00-TL	COOK	273	195
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 63003

TRAFFIC SIGNAL LEGEND

	PROPOSED	EXISTING
CONTROLLER		
SERVICE INSTALLATION		
SIGNAL HEAD		
SIGNAL HEAD WITH BACKPLATE		
SIGNAL HEAD, PEDESTRIAN		
SIGNAL POST		
MAST ARM ASSEMBLY AND POLE, STEEL		
MAST ARM ASSEMBLY AND POLE, ALUMINUM		
COMBINATION MAST ARM ASSEMBLY AND POLE STEEL WITH LUMINAIRE		
UNIT DUCT		
COMMON TRENCH		
HANDHOLE		
HEAVY DUTY HANDHOLE		
DOUBLE HANDHOLE		
G.S. CONDUIT IN GROUND		
PEDESTRIAN PUSHBUTTON DETECTOR		
DETECTOR LOOP		
CAST IRON JUNCTION BOX		
EMERGENCY VEHICLE SYSTEM DETECTOR		
CONFIRMATION BEACON		
SIGNAL HEAD OPTICALLY PROGRAMMED		
CONDUIT SPLICE		
WOOD POLE		
RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II		
VEHICLE DETECTOR, NON COMPENSATED MAGNETIC TYPE		
RAILROAD CONTROL CABINET		
TELEPHONE CONNECTION		
ILLUMINATED SIGN, FIBER OPTIC "NO LEFT TURN"		
ILLUMINATED SIGN, FIBER OPTIC "NO RIGHT TURN"		



NOTES

- * 1. THIS PLAN IS FOR THE PURPOSE OF INSTALLING EMERGENCY VEHICLE PREEMPTION EQUIPMENT AS SHOWN PER PLAN INDICATED IN THE SCHEDULE OF QUANTITIES. ALL OTHER EQUIPMENT SHOWN SHALL BE DISREGARDED.
- 2. THE EXISTING TRAFFIC SIGNAL CONTROLLER SHALL BE REMOVED AND REPLACED IN THE EXISTING TRAFFIC SIGNAL CONTROLLER CABINET.
- 3. THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR, REMAIN THE PROPERTY OF IDOT, AND BE STORED AS STATED IN THE SPECIAL PROVISIONS FOR PICK UP BY IDOT FORCES AS DESIGNATED BY THE ENGINEER.
 EXISTING TRAFFIC SIGNAL CONTROLLER EACH 1

VILLAGE OF LYNWOOD
LOCATION NO. 88

* PLANS MODIFIED BY
ROBINSON ENGINEERING, LTD

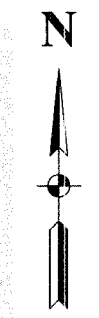
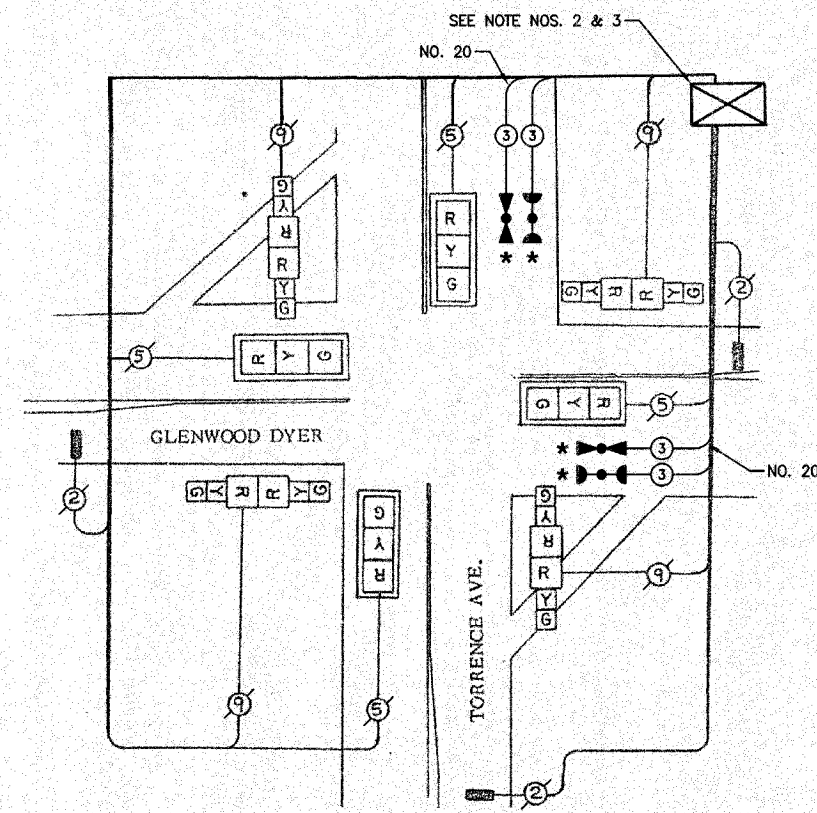
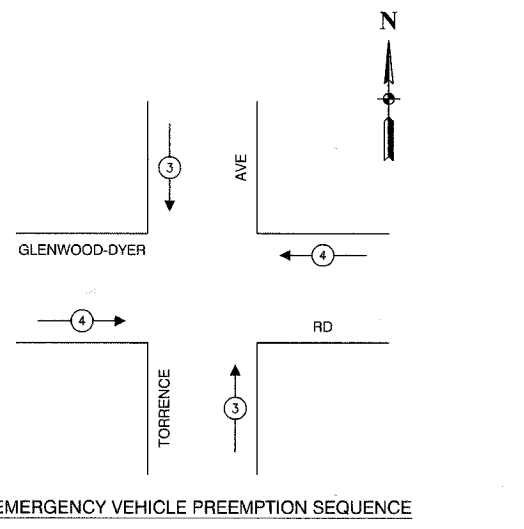
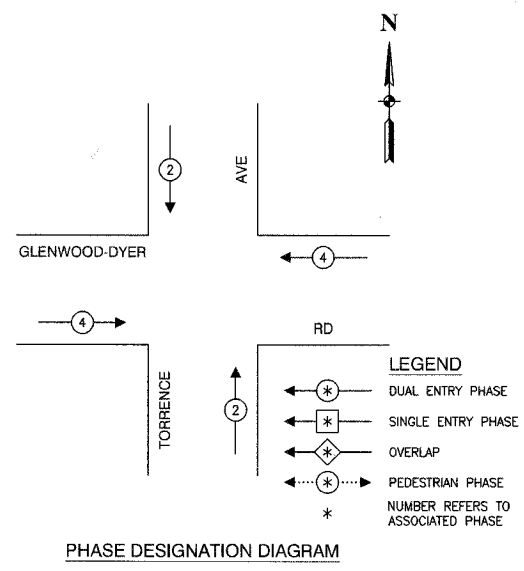
REVISIONS	
NAME	DATE
* ADDED EV PREEMPTION	01/02/08
NEW CONTROLLER	

ILLINOIS DEPARTMENT OF TRANSPORTATION
**PROPOSED EMERGENCY VEHICLE PREEMPTION
GLENWOOD-DYER RD & TORRENCE AVE (IL RT 83)**

SCALE: VERT. _____
HORIZ. _____
DATE _____ DRAWN BY _____
CHECKED BY _____

F.A. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00146-00-TL	COOK	273	196
STA.	TO STA.			
FED. ROAD DIST. NO.	ALNOS	FED. AID PROJECT		

CONTRACT NO. 63003



CABLE PLAN LEGEND

EXISTING	PROPOSED	DESCRIPTION
		8" TRAFFIC SIGNAL SECTION
		12" TRAFFIC SIGNAL SECTION
		12" PEDESTRIAN SIGNAL SECTION
		12" PEDESTRIAN SIGNAL SECTION
		CONTROLLER CABINET
		SERVICE INSTALLATION
		TELEPHONE CONNECTION
		MAGNETIC DETECTOR
		EMERGENCY VEHICLE LIGHT DETECTOR
		CONFIRMATION BEACON
		PUSHBUTTON DETECTOR
		VEHICLE DETECTOR, INDUCTION LOOP
		DENOTES NUMBER OF CONDUCTORS. ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED.
		SIGNAL FACE WITH BACKPLATE
		"P" INDICATES PROGRAMMED HEAD
		RAILROAD CONTROL CABINET
		ILLUMINATED SIGN, FIBER OPTIC "NO LEFT TURN"
		ILLUMINATED SIGN, FIBER OPTIC "NO RIGHT TURN"
		H/C GROUND ROD AT HANDHOLE, DOUBLE HANDHOLE, OR CONTROLLER
		P GROUND ROD AT POST OR MAST ARM POLE
		S GROUND ROD AT ELECTRIC SERVICE INSTALLATION

SCHEDULE OF QUANTITIES

PAY ITEM	UNIT	QUANTITY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	248
LIGHT DETECTOR	EACH	2
LIGHT DETECTOR AMPLIFIER	EACH	1
MODIFY EXISTING CONTROLLER	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED	FOOT	248
MAGNETIC DETECTOR AMPLIFIER	EACH	3

NOTE

* 1. THIS PLAN IS FOR THE PURPOSE OF INSTALLING EMERGENCY VEHICLE PREEMPTION EQUIPMENT AS SHOWN PER PLAN INDICATED IN THE SCHEDULE OF QUANTITIES. ALL OTHER EQUIPMENT SHOWN SHALL BE DISREGARDED.

* PLANS MODIFIED BY ROBINSON ENGINEERING, LTD

REVISIONS	
NAME	DATE
ADDED EV PREEMPTION NEW CONTROLLER	01/02/08

VILLAGE OF LYNWOOD LOCATION NO. 88

ILLINOIS DEPARTMENT OF TRANSPORTATION

PROPOSED EMERGENCY VEHICLE PREEMPTION CABLE PLAN, PHASE DESIGNATION DIAGRAM & SCHEDULE OF QUANTITIES GLENWOOD-DYER RD & TORRENCE AVE (IL RT 83)

SCALE: VERT. _____ HORIZ. _____

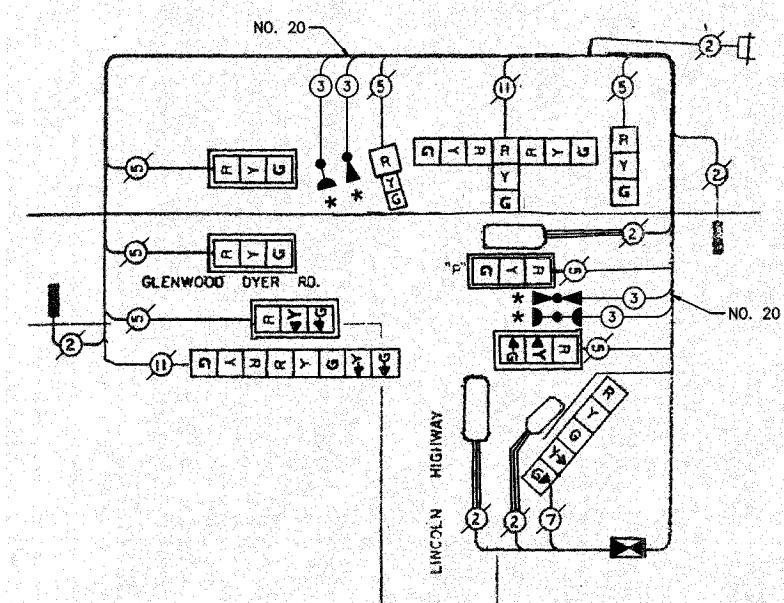
DATE _____ DRAWN BY _____ CHECKED BY _____

F. A. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00146-00-TL	COOK	273	198
STA.		TO STA.		
FED. ROAD DIST. NO.	ALINE	FED. AID PROJECT		

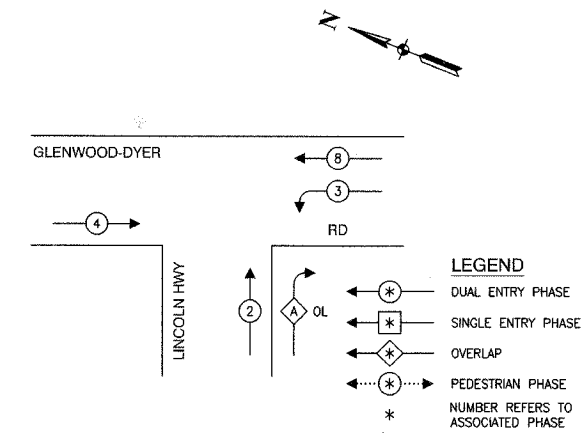
CONTRACT NO. 63003

CABLE PLAN LEGEND

- | EXISTING | PROPOSED | |
|----------|----------|---|
| | | 8" TRAFFIC SIGNAL SECTION |
| | | 12" TRAFFIC SIGNAL SECTION |
| | | 12" PEDESTRIAN SIGNAL SECTION |
| | | 12" PEDESTRIAN SIGNAL SECTION |
| | | CONTROLLER CABINET |
| | | SERVICE INSTALLATION |
| | | TELEPHONE CONNECTION |
| | | MAGNETIC DETECTOR |
| | | EMERGENCY VEHICLE LIGHT DETECTOR |
| | | CONFIRMATION BEACON |
| | | PUSHBUTTON DETECTOR |
| | | VEHICLE DETECTOR, INDUCTION LOOP |
| | | 2 DENOTES NUMBER OF CONDUCTORS. ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED. |
| | | SIGNAL FACE WITH BACKPLATE |
| | | "P" INDICATES PROGRAMMED HEAD |
| | | RAILROAD CONTROL CABINET |
| | | ILLUMINATED SIGN, FIBER OPTIC "NO LEFT TURN" |
| | | ILLUMINATED SIGN, FIBER OPTIC "NO RIGHT TURN" |
| | | H/C GROUND ROD AT HANDHOLE, DOUBLE HANDHOLE, OR CONTROLLER |
| | | P GROUND ROD AT POST OR MAST ARM POLE |
| | | S GROUND ROD AT ELECTRIC SERVICE INSTALLATION |

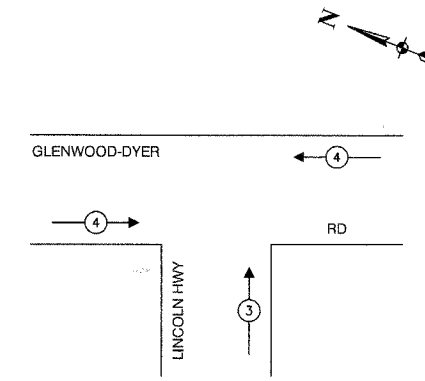


CABLE PLAN



PHASE DESIGNATION DIAGRAM

OVERLAP PERMISSIVE PROTECTED DISPLAY
A = 2 + 3 - 2



EMERGENCY VEHICLE PREEMPTION SEQUENCE

PROPOSED EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	↑	←

SCHEDULE OF QUANTITIES		
PAY ITEM	UNIT	QUANTITY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	327
TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.	EACH	1
LIGHT DETECTOR	EACH	2
LIGHT DETECTOR AMPLIFIER	EACH	1
RELOCATE EXISTING SIGNAL HEAD	EACH	1
REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	FOOT	15
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED	FOOT	327

NOTE
* 1. THIS PLAN IS FOR THE PURPOSE OF INSTALLING EMERGENCY VEHICLE PREEMPTION EQUIPMENT AS SHOWN PER PLAN INDICATED IN THE SCHEDULE OF QUANTITIES. ALL OTHER EQUIPMENT SHOWN SHALL BE DISREGARDED.

* PLANS MODIFIED BY ROBINSON ENGINEERING, LTD

REVISIONS	
NAME	DATE
ADDED EV PREEMPTION	01/02/08
NEW 18' POST	

VILLAGE OF LYNWOOD
LOCATION NO. 89

ILLINOIS DEPARTMENT OF TRANSPORTATION

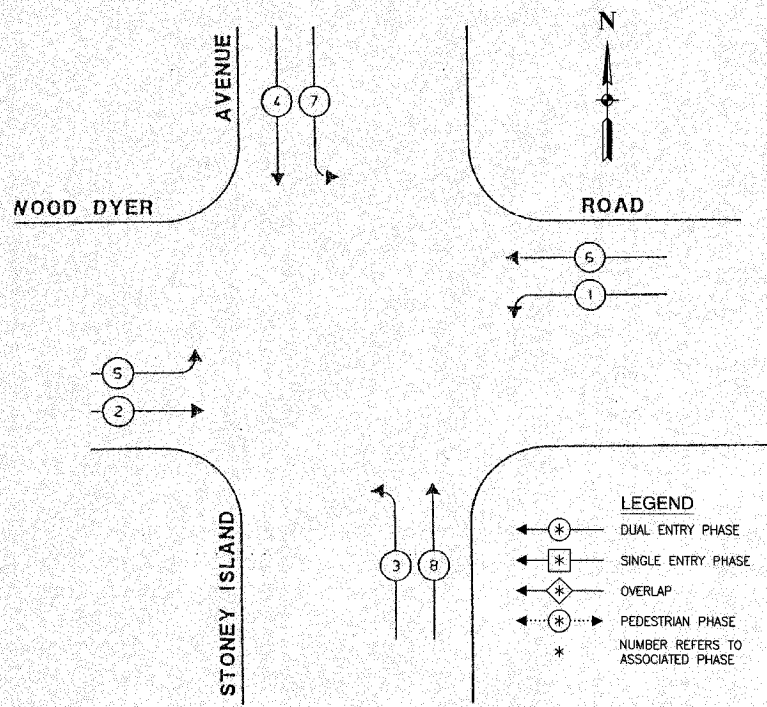
PROPOSED EMERGENCY VEHICLE PREEMPTION CABLE PLAN, PHASE DESIGNATION DIAGRAM & SCHEDULE OF QUANTITIES
GLENWOOD-DYER RD & ROUTE 30 (LINCOLN HWY)

SCALE: VERT. _____ HORIZ. _____
DATE _____ DRAWN BY _____ CHECKED BY _____

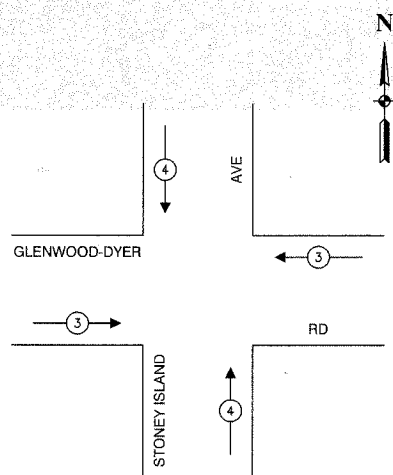
F. A. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00146-00-TL	COOK	273	200
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 63003

CONTROLLER SEQUENCE IV
 REFERRING TO STANDARD 2393-1 THE VEHICULAR PHASES USED ARE DESIGNATED BELOW. FULL-ACTUATED CONTROLLER, STANDARD SEQUENCE IV, 8 PHASES IN TYPE IV CABINET.

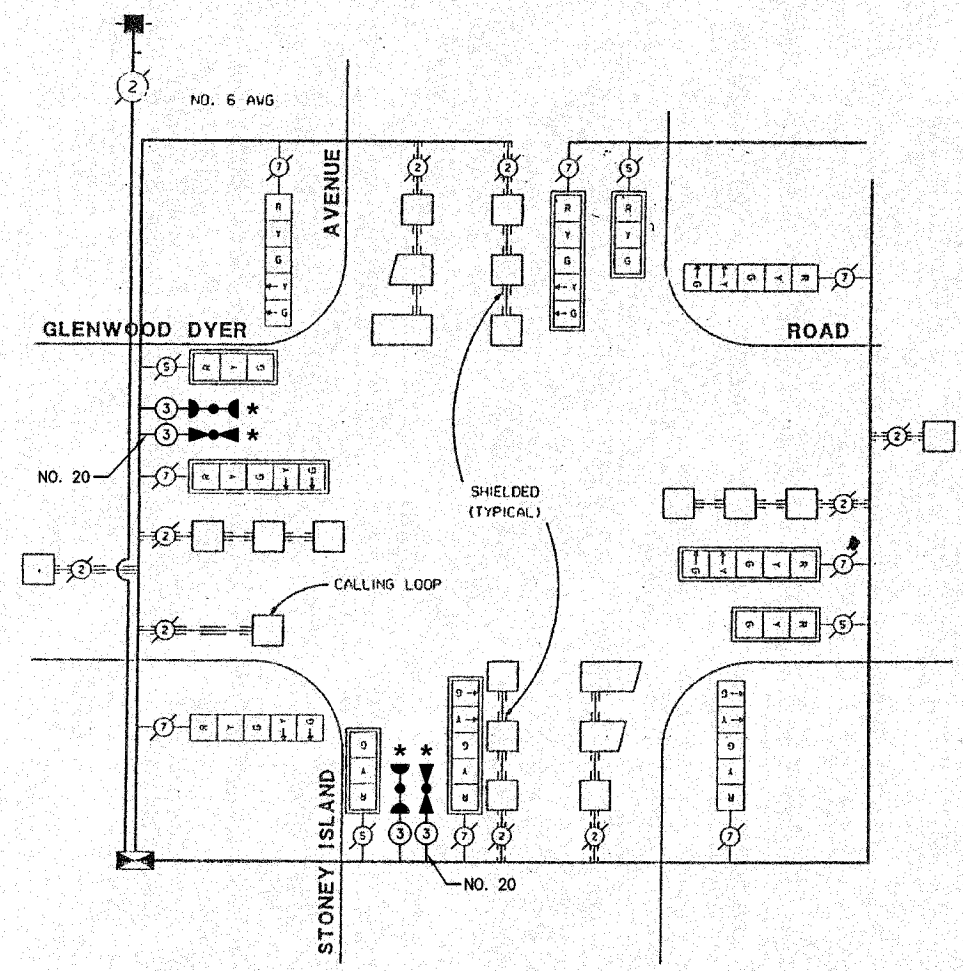


PHASE DESIGNATION DIAGRAM



EMERGENCY VEHICLE PREEMPTION SEQUENCE

PROPOSED EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	←	↑
	→	↓



CABLE PLAN LEGEND

EXISTING	PROPOSED	DESCRIPTION
[Symbol]	[Symbol]	8" TRAFFIC SIGNAL SECTION
[Symbol]	[Symbol]	12" TRAFFIC SIGNAL SECTION
[Symbol]	[Symbol]	12" PEDESTRIAN SIGNAL SECTION
[Symbol]	[Symbol]	12" PEDESTRIAN SIGNAL SECTION
[Symbol]	[Symbol]	CONTROLLER CABINET
[Symbol]	[Symbol]	SERVICE INSTALLATION
[Symbol]	[Symbol]	TELEPHONE CONNECTION
[Symbol]	[Symbol]	MAGNETIC DETECTOR
[Symbol]	[Symbol]	EMERGENCY VEHICLE LIGHT DETECTOR
[Symbol]	[Symbol]	CONFIRMATION BEACON
[Symbol]	[Symbol]	PUSHBUTTON DETECTOR
[Symbol]	[Symbol]	VEHICLE DETECTOR, INDUCTION LOOP
[Symbol]	[Symbol]	DENOTES NUMBER OF CONDUCTORS. ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED.
[Symbol]	[Symbol]	SIGNAL FACE WITH BACKPLATE
[Symbol]	[Symbol]	"P" INDICATES PROGRAMMED HEAD
[Symbol]	[Symbol]	RAILROAD CONTROL CABINET
[Symbol]	[Symbol]	ILLUMINATED SIGN, FIBER OPTIC "NO LEFT TURN"
[Symbol]	[Symbol]	ILLUMINATED SIGN, FIBER OPTIC "NO RIGHT TURN"
[Symbol]	[Symbol]	GROUND ROD AT HANDHOLE, DOUBLE HANDHOLE, OR CONTROLLER
[Symbol]	[Symbol]	GROUND ROD AT POST OR MAST ARM POLE
[Symbol]	[Symbol]	GROUND ROD AT ELECTRIC SERVICE INSTALLATION

SCHEDULE OF QUANTITIES		
PAY ITEM	UNIT	QUANTITY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	329
LIGHT DETECTOR	EACH	2
LIGHT DETECTOR AMPLIFIER	EACH	1
ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED	FOOT	326

NOTE
 * 1. THIS PLAN IS FOR THE PURPOSE OF INSTALLING EMERGENCY VEHICLE PREEMPTION EQUIPMENT AS SHOWN PER PLAN INDICATED IN THE SCHEDULE OF QUANTITIES. ALL OTHER EQUIPMENT SHOWN SHALL BE DISREGARDED.

* PLANS MODIFIED BY ROBINSON ENGINEERING, LTD.

REVISIONS	
NAME	DATE
ADDED EV PREEMPTION	01/02/08

VILLAGE OF LYNWOOD
 LOCATION NO. 90

ILLINOIS DEPARTMENT OF TRANSPORTATION

PROPOSED EMERGENCY VEHICLE PREEMPTION CABLE PLAN, PHASE DESIGNATION DIAGRAM & SCHEDULE OF QUANTITIES
 GLENWOOD-DYER ROAD & STONEY ISLAND AVENUE

SCALE: VERT. _____ DRAWN BY _____
 HORIZ. _____ CHECKED BY _____
 DATE _____

ROBINSON ENGINEERING, LTD.
 17000 SOUTH PARK AVENUE, SOUTH HOLLAND, ILLINOIS 60473
 (708) 331-9779 FAX (708) 331-9228
 ILLINOIS DESIGN FIRM REGISTRATION NO. 184001126