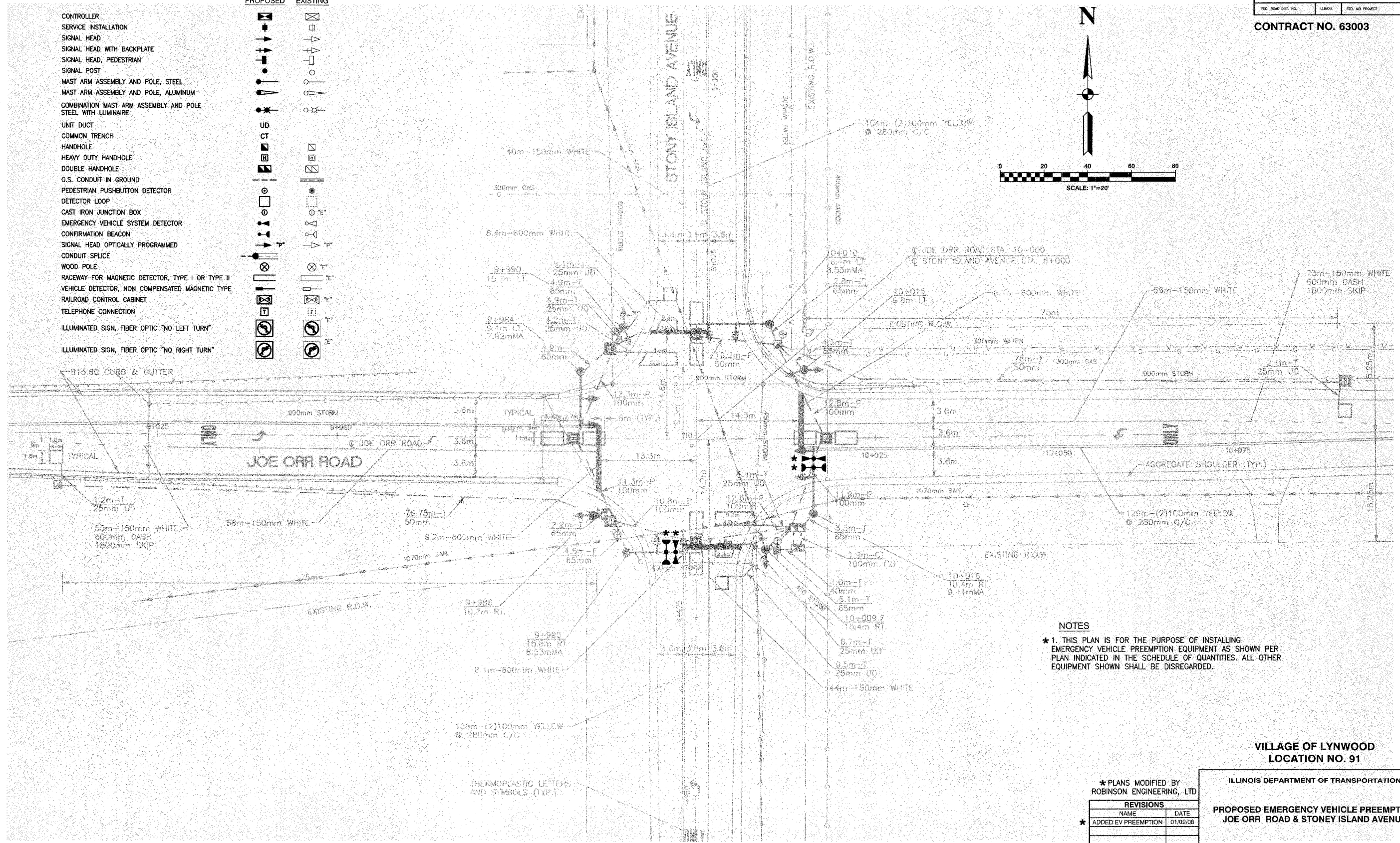


F. A. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00146-00-TL	COOK	273	201
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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. 91

* PLANS MODIFIED BY
 ROBINSON ENGINEERING, LTD

ILLINOIS DEPARTMENT OF TRANSPORTATION

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

PROPOSED EMERGENCY VEHICLE PREEMPTION
 JOE ORR ROAD & STONEY ISLAND AVENUE

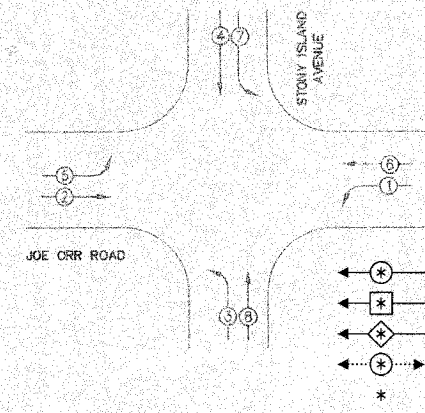
SCALE: VERT. _____
 HORIZ. _____
 DATE _____ DRAWN BY _____
 CHECKED BY _____

F.A. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00146-00-TL	COOK	273	202
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

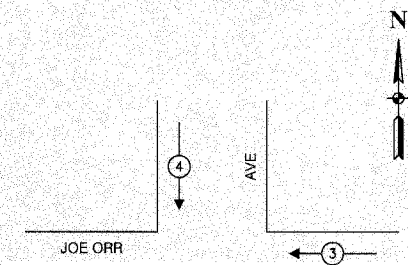
CONTRACT NO. 63003

STANDARD CONTROLLER SEQUENCE

REFERRING TO 1007 STANDARD DRAWING 857001 THE VEHICULAR PHASES USED ARE DESIGNATED BELOW

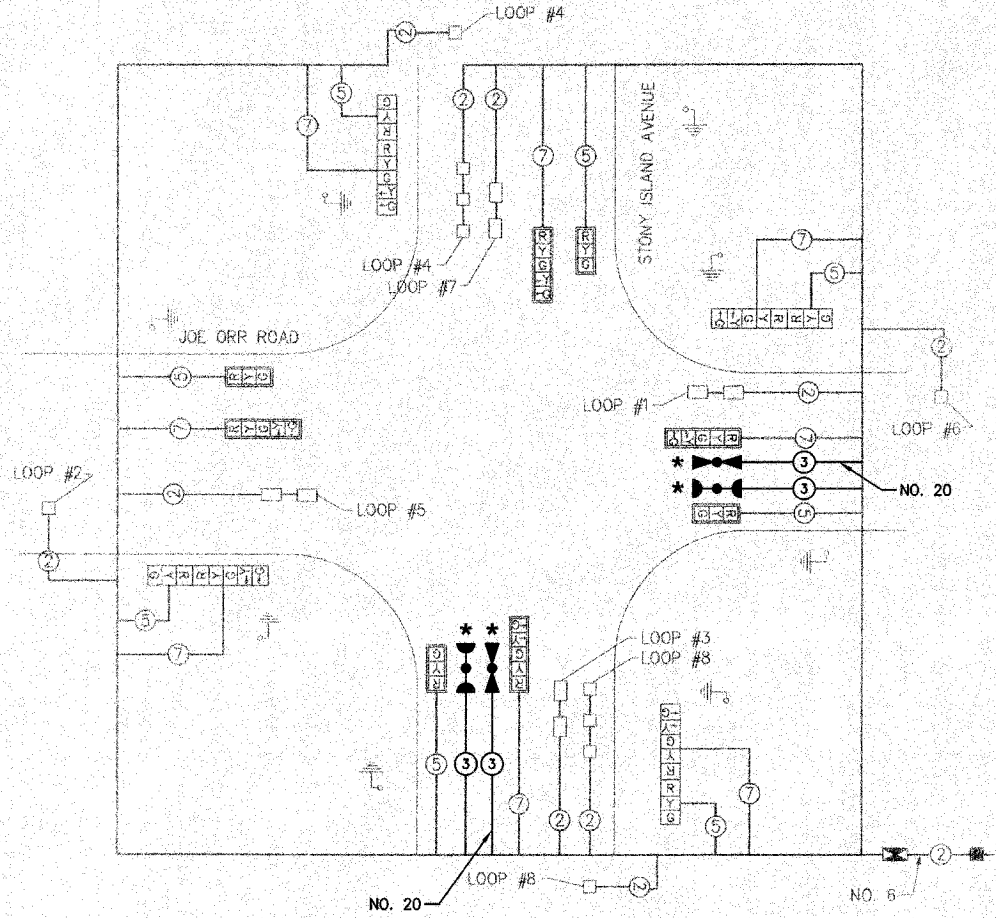


PHASE DESIGNATION DIAGRAM



EMERGENCY VEHICLE PREEMPTION SEQUENCE

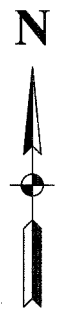
PROPOSED EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	←	↑



SCHEDULE OF QUANTITIES

PAY ITEM	UNIT	QUANTITY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	252
LIGHT DETECTOR	EACH	2
LIGHT DETECTOR AMPLIFIER	EACH	1
ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED	FOOT	252

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 LYNWOOD LOCATION NO. 91

* PLANS MODIFIED BY ROBINSON ENGINEERING, LTD

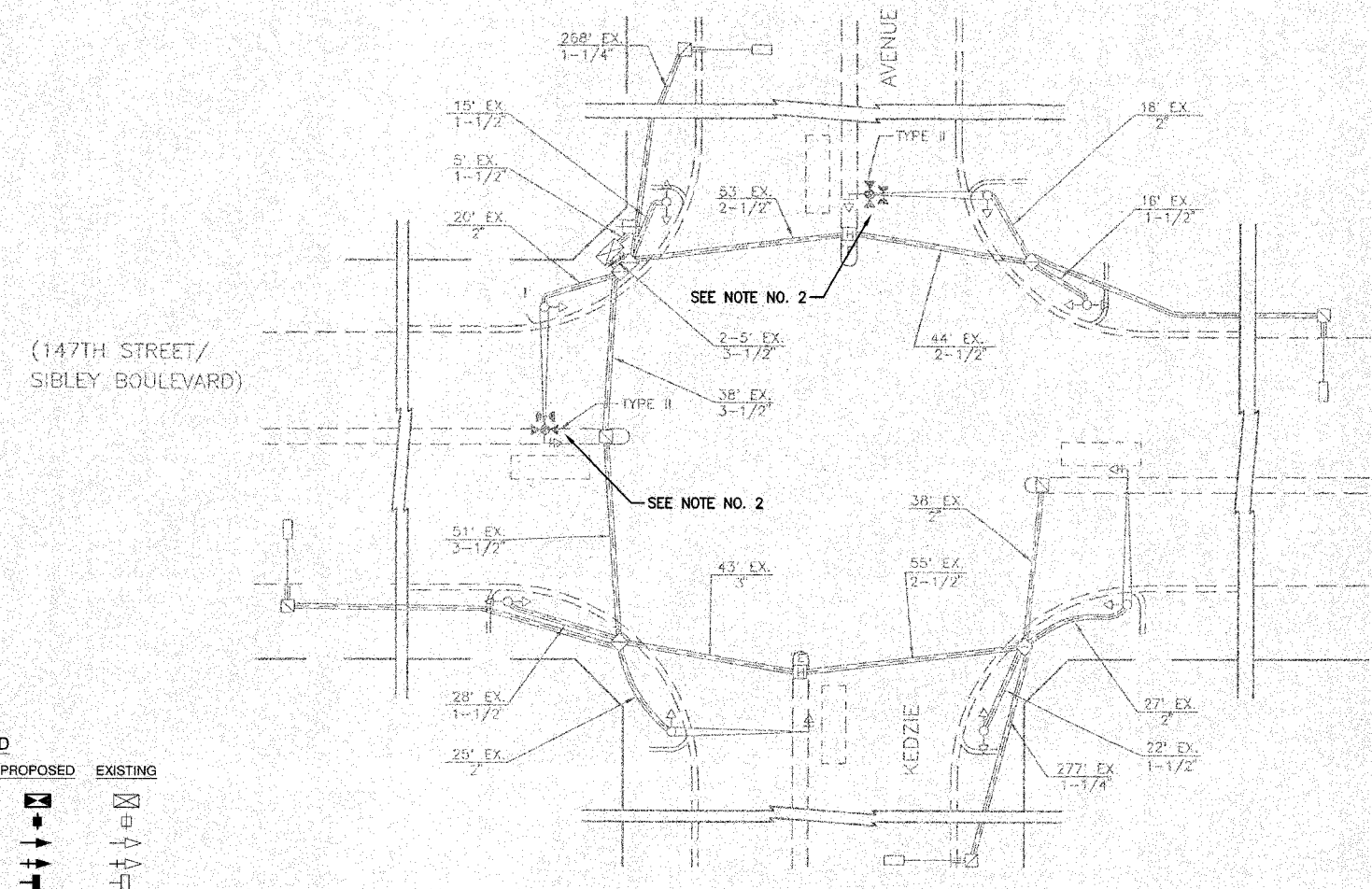
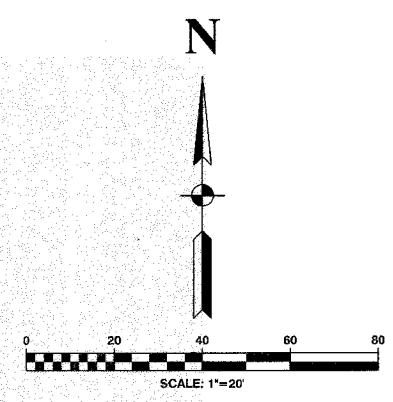
REVISIONS	
NAME	DATE
ADDED EV PREEMPTION	01/02/08

ILLINOIS DEPARTMENT OF TRANSPORTATION
PROPOSED EMERGENCY VEHICLE PREEMPTION CABLE PLAN, PHASE DESIGNATION DIAGRAM & SCHEDULE OF QUANTITIES
JOE ORR ROAD & STONEY ISLAND AVENUE

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

F. A. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00148-00-TL	COOK	273	203
STA.		TO STA.		
FED. ROAD DIST. NO.	KLINGS	FED. RD. PROJECT		

CONTRACT NO. 63003



TRAFFIC SIGNAL PLAN
SCALE: 1" = 20'

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, CONFIRMATION BEACON AND LIGHT DETECTOR AMPLIFIER SHALL BE REMOVED AND REPLACED WITH NEW EQUIPMENT. THE EXISTING EQUIPMENT SHALL BE RETURNED TO THE VILLAGE OF MIDLOTHIAN.

VILLAGE OF MIDLOTHIAN
LOCATION NO. 92

ILLINOIS DEPARTMENT OF TRANSPORTATION
**PROPOSED EMERGENCY VEHICLE PREEMPTION
ILLINOIS RT 83 (147TH STREET) & KEDZIE AVENUE**

* PLANS MODIFIED BY
ROBINSON ENGINEERING, LTD

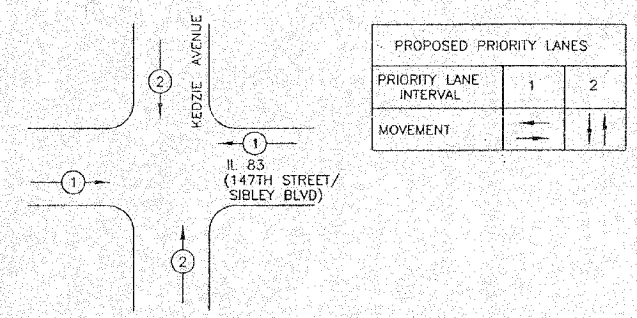
REVISIONS	
NAME	DATE
* R & R EV PREEMPTION	01/02/08

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

F. A. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00146-00-TL	COOK	273	204
STA.	TO STA.			
FED. ROAD DIST. NO.	LINE NO.	FED. PROJ. NO.		

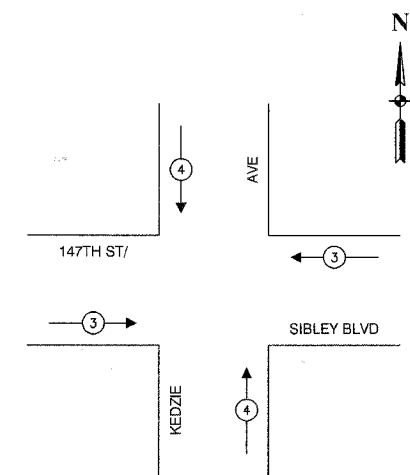
CONTRACT NO. 63003

EMERGENCY VEHICLE PREEMPTION SEQUENCE NOTES
FOR DUAL ENTRY OPERATION - ALL LEGS



- ONCE PREEMPTION HAS BEEN CALLED, TERMINATION OF A PHASE(S) SHALL BE IDENTICAL TO THE NORMAL SEQUENCES OF OPERATION'S TERMINATION OF A PHASE(S) AS DESCRIBED IN STANDARD 2393.
- CONTINUATION OR TERMINATION OF ALL RIGHT TURN OVERLAPS SHALL BE IDENTICAL TO THE NORMAL SEQUENCE OF OPERATION'S CONTINUATION OR TERMINATION OF RIGHT TURN OVERLAPS AS DESCRIBED IN THE CLEARANCE NOTES FOR RIGHT TURN OVERLAPS.
- TERMINATION OF ALL PEDESTRIAN PHASES SHALL INCLUDE A FULL FLASHING "DON'T WALK" INTERVAL.
- IF ALL RED CLEARANCE IS USED IN THE NORMAL SEQUENCE OF OPERATION, IT MUST BE DISPLAYED AFTER THE YELLOW CLEARANCE INTERVAL WHEN ENTERING OR LEAVING THE PREEMPTION SEQUENCE.

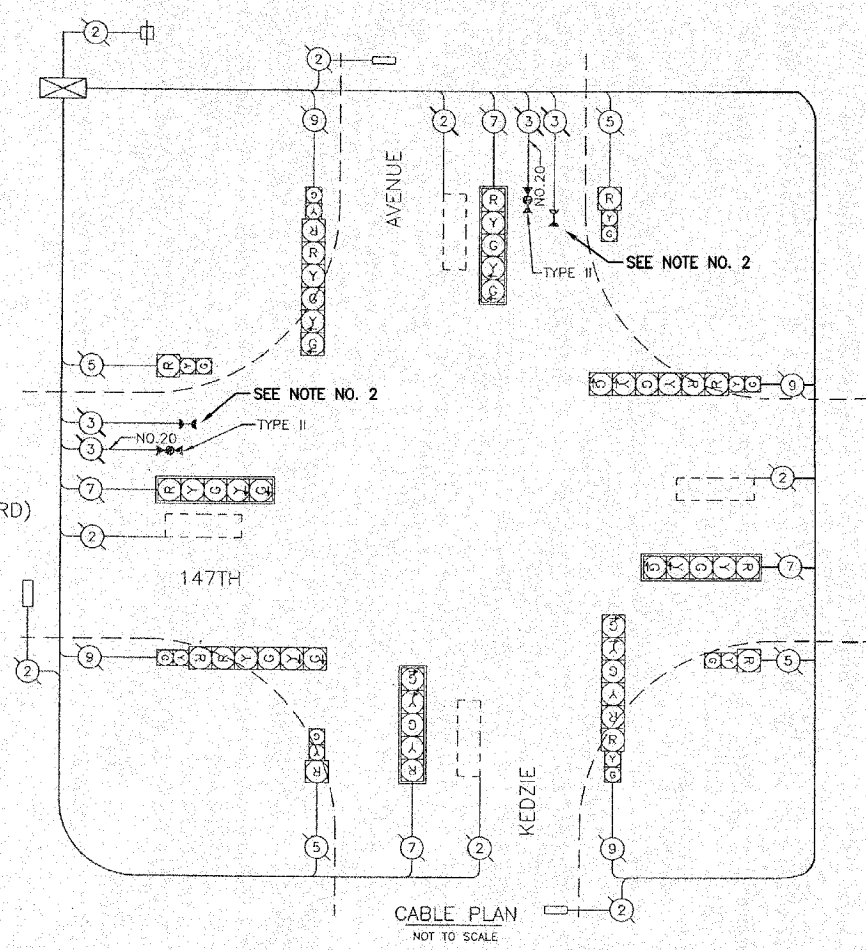
EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE

PROPOSED PRIORITY LANES		
PRIORITY LANE INTERVAL	1	2
MOVEMENT	←	↑

(147TH STREET/
SIBLEY BOULEVARD)



CABLE PLAN
NOT TO SCALE

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, FIBOR OPTIC "NO LEFT TURN"
		ILLUMINATED SIGN, FIBOR 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	305
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	305

- 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.
 - THE EXISTING EMERGENCY VEHICLE LIGHT DETECTOR, CONFIRMATION BEACON AND LIGHT DETECTOR AMPLIFIER SHALL BE REMOVED AND REPLACED WITH NEW EQUIPMENT. THE EXISTING EQUIPMENT SHALL BE RETURNED TO THE VILLAGE OF MIDLOTHIAN.

* PLANS MODIFIED BY
ROBINSON ENGINEERING, LTD

REVISIONS	
NAME	DATE
ADDED EV PREEMPTION	01/02/08

VILLAGE OF MIDLOTHIAN
LOCATION NO. 92

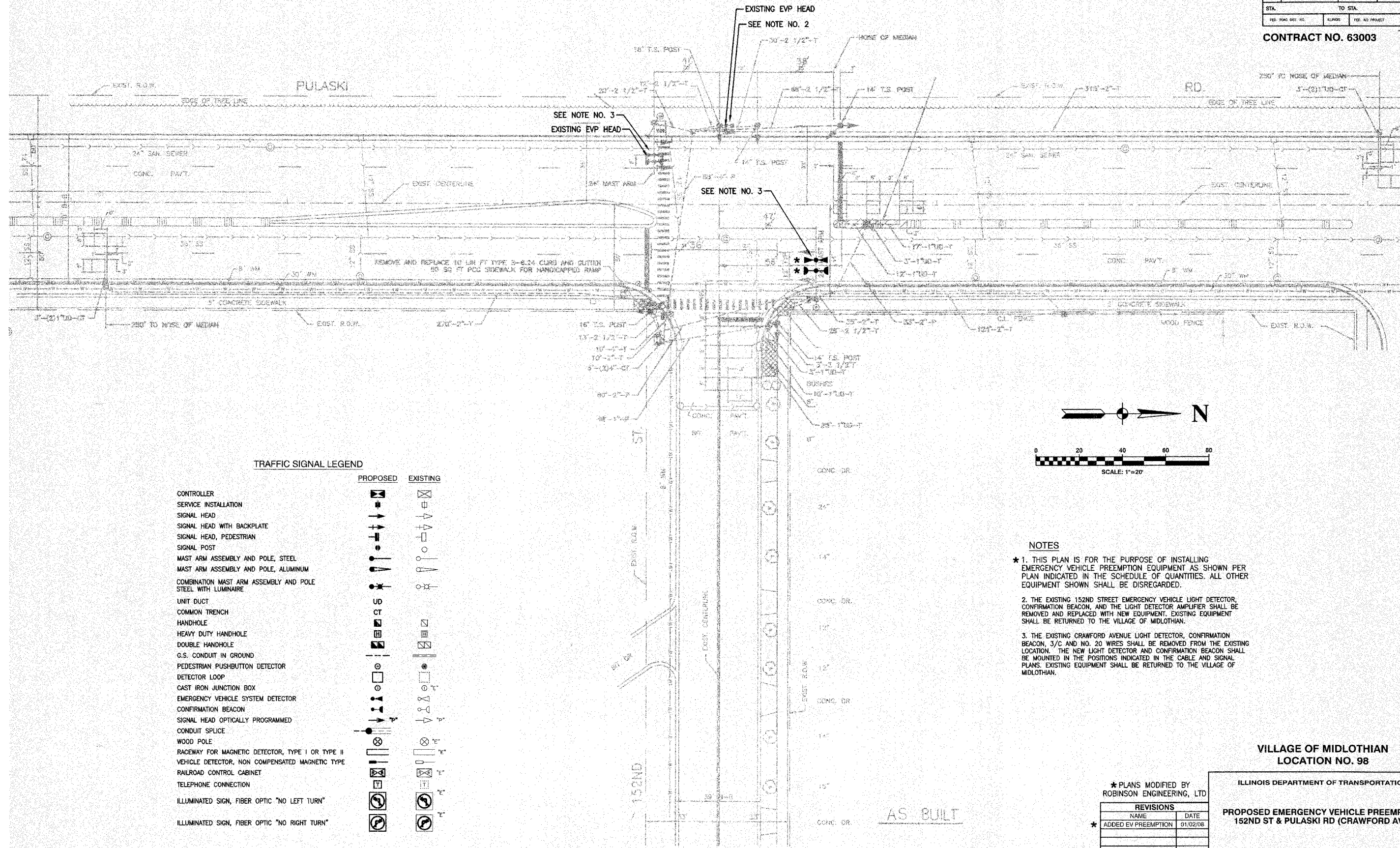
ILLINOIS DEPARTMENT OF TRANSPORTATION

**PROPOSED EMERGENCY VEHICLE PREEMPTION
CABLE PLAN, PHASE DESIGNATION DIAGRAM &
SCHEDULE OF QUANTITIES**
ILLINOIS RT 83 (147TH STREET) & KEDZIE AVENUE

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

F. A. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00146-00-TL	COOK	273	205
STA.	TO STA.			
FED. ROAD DIST. NO.	LINE	FED. NO. 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 152ND STREET EMERGENCY VEHICLE LIGHT DETECTOR, CONFIRMATION BEACON, AND THE LIGHT DETECTOR AMPLIFIER SHALL BE REMOVED AND REPLACED WITH NEW EQUIPMENT. EXISTING EQUIPMENT SHALL BE RETURNED TO THE VILLAGE OF MIDLOTHIAN.
- 3. THE EXISTING CRAWFORD AVENUE LIGHT DETECTOR, CONFIRMATION BEACON, 3/C AND NO. 20 WIRES SHALL BE REMOVED FROM THE EXISTING LOCATION. THE NEW LIGHT DETECTOR AND CONFIRMATION BEACON SHALL BE MOUNTED IN THE POSITIONS INDICATED IN THE CABLE AND SIGNAL PLANS. EXISTING EQUIPMENT SHALL BE RETURNED TO THE VILLAGE OF MIDLOTHIAN.

VILLAGE OF MIDLOTHIAN
LOCATION NO. 98

* PLANS MODIFIED BY
ROBINSON ENGINEERING, LTD

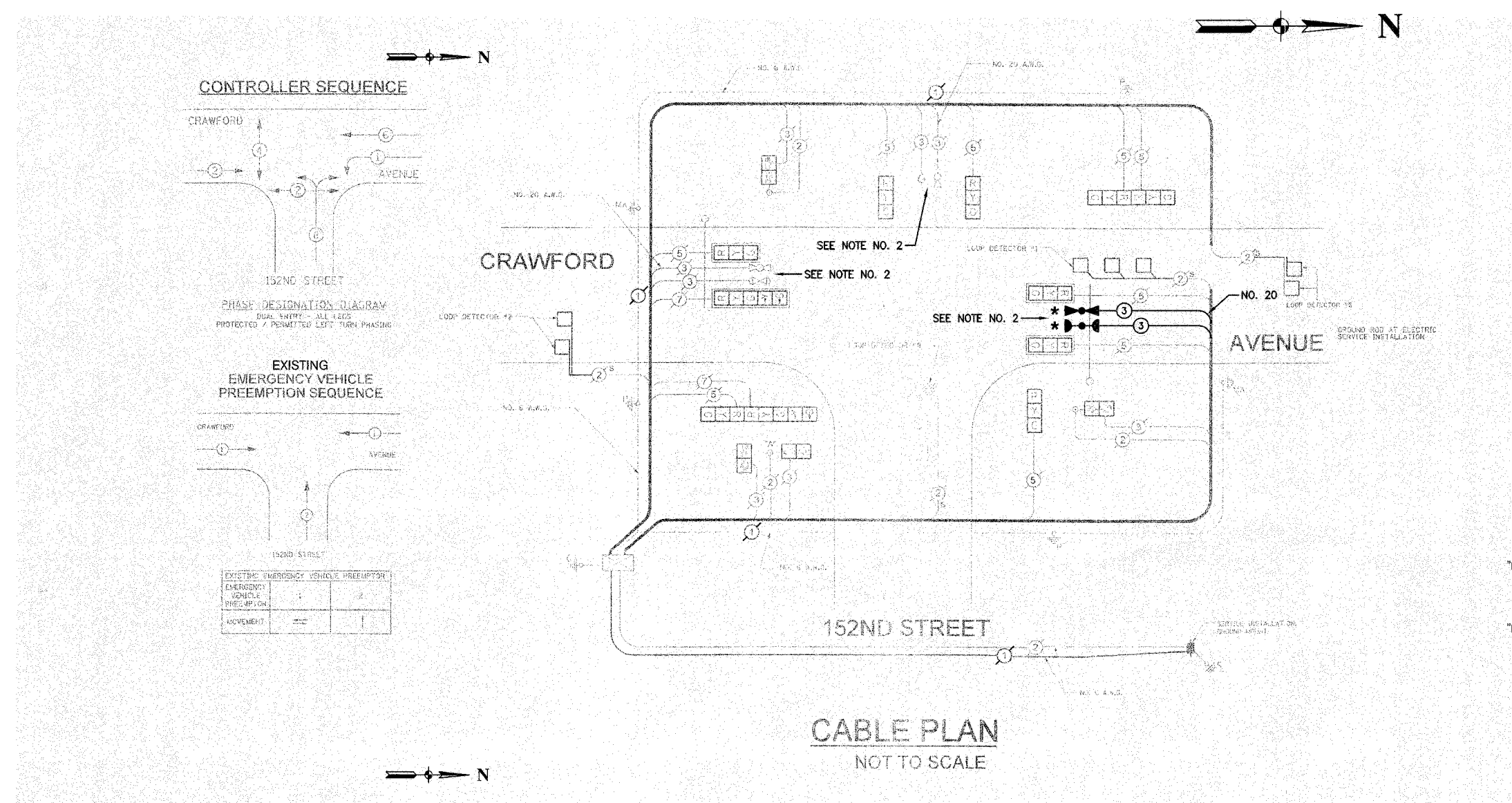
REVISIONS	
NAME	DATE
* ADDED EV PREEMPTION	01/02/08

ILLINOIS DEPARTMENT OF TRANSPORTATION
**PROPOSED EMERGENCY VEHICLE PREEMPTION
152ND ST & PULASKI RD (CRAWFORD AVE)**

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

F. A. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00146-00-TL	COOK	273	206
STA.		TO STA.		
FED. ROAD DIST. NO.	USPOSS	FED. AID PROJECT		

CONTRACT NO. 63003

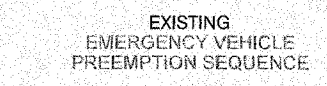
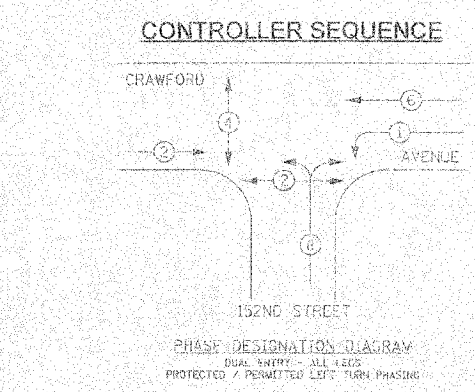


EXISTING	PROPOSED	
		8" TRAFFIC SIGNAL SECTION
		12" TRAFFIC SIGNAL SECTION
		12" PEDESTRIAN SIGNAL SECTION
		12" PEDESTRIAN SIGNAL SECTION
		CONTROLLER CABINET
		SERVICE INSTALLATION
		TELEPHONE CONNECTION
		MAGNETIC DETECTOR
		EMERGENCY VEHICLE LIGHT DETECTOR
		CONFIRMATION BEACON
		PUSHBUTTON DETECTOR
		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
		"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

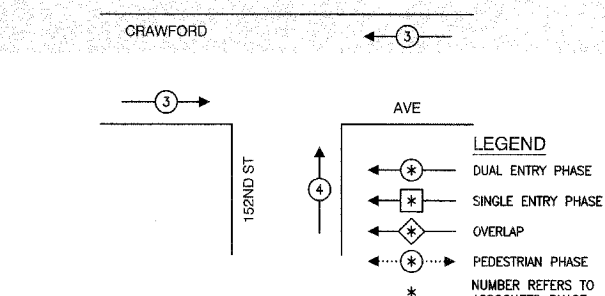
CABLE PLAN
NOT TO SCALE

SCHEDULE OF QUANTITIES		
PAY ITEM	UNIT	QUANTITY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	141
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	141

- 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 152ND STREET EMERGENCY VEHICLE LIGHT DETECTOR, CONFIRMATION BEACON, AND THE LIGHT DETECTOR AMPLIFIER SHALL BE REMOVED AND REPLACED WITH NEW EQUIPMENT. EXISTING EQUIPMENT SHALL BE RETURNED TO THE VILLAGE OF MIDLOTHIAN.
 - THE EXISTING CRAWFORD AVENUE LIGHT DETECTOR, CONFIRMATION BEACON, 3/C AND NO. 20 WIRES SHALL BE REMOVED FROM THE EXISTING LOCATION. THE NEW LIGHT DETECTOR AND CONFIRMATION BEACON SHALL BE MOUNTED IN THE POSITIONS INDICATED IN THE CABLE AND SIGNAL PLANS. EXISTING EQUIPMENT SHALL BE RETURNED TO THE VILLAGE OF MIDLOTHIAN.



EXISTING EMERGENCY VEHICLE PREEMPTION		
EMERGENCY VEHICLE PREEMPTION	3	4
MOVEMENT	←	↑



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

VILLAGE OF MIDLOTHIAN
LOCATION NO. 98

ILLINOIS DEPARTMENT OF TRANSPORTATION

PROPOSED EMERGENCY VEHICLE PREEMPTION CABLE PLAN, PHASE DESIGNATION DIAGRAM & SCHEDULE OF QUANTITIES
152ND ST & PULASKI RD (CRAWFORD AVE)

SCALE: VERT. _____
HORIZ. _____
DATE _____

DRAWN BY _____
CHECKED BY _____

* PLANS MODIFIED BY ROBINSON ENGINEERING, LTD

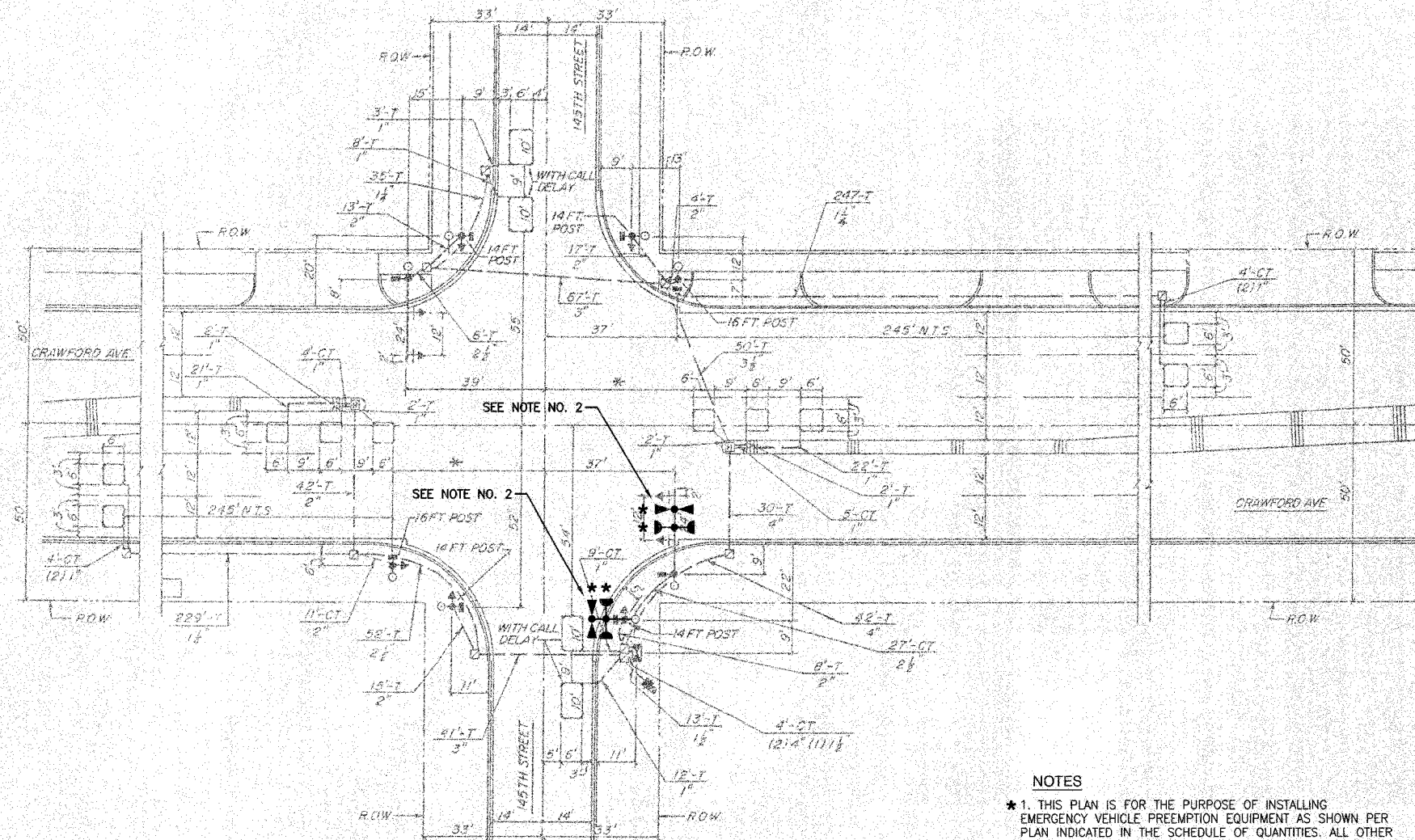
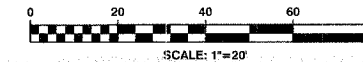
REVISIONS	
NAME	DATE
ADDED EV PREEMPTION	01/02/08

F. A. SEC.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00148-00-TL	COOK	273	207
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, CONFIRMATION BEACON AND LIGHT DETECTOR AMPLIFIER SHALL BE REMOVED AND REPLACED WITH NEW EQUIPMENT. THE EXISTING EQUIPMENT SHALL BE RETURNED TO THE VILLAGE OF MIDLOTHIAN.

VILLAGE OF MIDLOTHIAN
LOCATION NO. 99

* PLANS MODIFIED BY
ROBINSON ENGINEERING, LTD

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

ILLINOIS DEPARTMENT OF TRANSPORTATION
**PROPOSED EMERGENCY VEHICLE PREEMPTION
145TH ST & PULASKI RD (CRAWFORD AVE)**

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

ROBINSON ENGINEERING, LTD.
1700 SOUTH PARK AVENUE SOUTH HOLLAND, ILLINOIS 60473
(708) 931-6700 FAX (708) 931-3528
ILLINOIS DESIGN FIRM REGISTRATION NO. 146011228

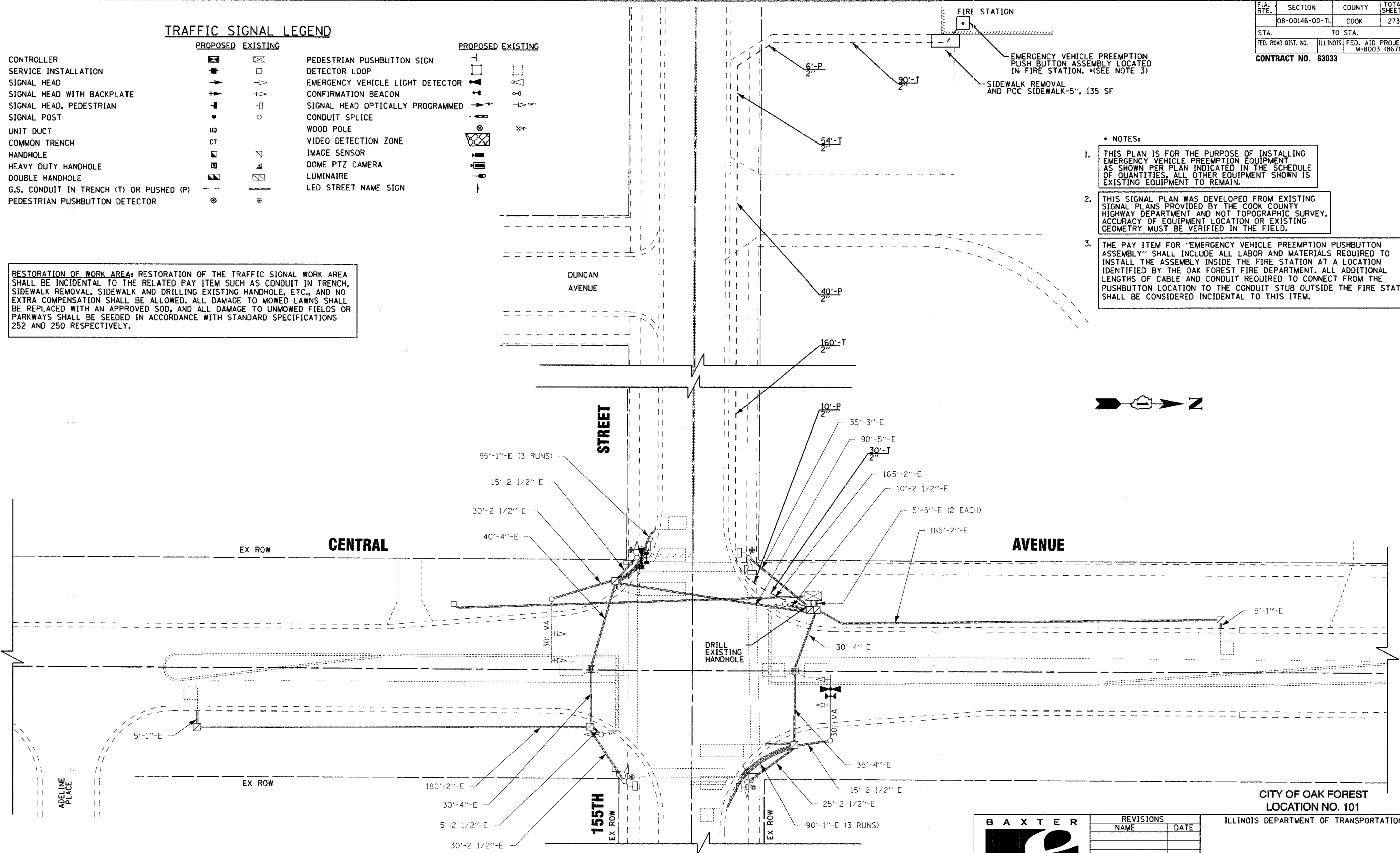
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00146-00-TL	COOK	273	209
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	M-8003 (867)	
CONTRACT NO. 63033				

TRAFFIC SIGNAL LEGEND

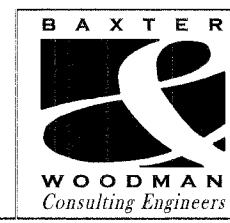
CONTROLLER		EXISTING		PEDESTRIAN PUSHBUTTON SIGN		EXISTING	
SERVICE INSTALLATION				DETECTOR LOOP			
SIGNAL HEAD				EMERGENCY VEHICLE LIGHT DETECTOR			
SIGNAL HEAD WITH BACKPLATE				CONFIRMATION BEACON			
SIGNAL HEAD, PEDESTRIAN				SIGNAL HEAD OPTICALLY PROGRAMMED			
SIGNAL POST				CONDUIT SPLICE			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

RESTORATION OF WORK AREA: RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS CONDUIT IN TRENCH, SIDEWALK REMOVAL, SIDEWALK AND DRILLING EXISTING HANDHOLE, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS OR PARKWAYS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

- 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.
 - THE PAY ITEM FOR "EMERGENCY VEHICLE PREEMPTION PUSHBUTTON ASSEMBLY" SHALL INCLUDE ALL LABOR AND MATERIALS REQUIRED TO INSTALL THE ASSEMBLY INSIDE THE FIRE STATION AT A LOCATION IDENTIFIED BY THE OAK FOREST FIRE DEPARTMENT. ALL ADDITIONAL LENGTHS OF CABLE AND CONDUIT REQUIRED TO CONNECT FROM THE PUSHBUTTON LOCATION TO THE CONDUIT STUB OUTSIDE THE FIRE STATION SHALL BE CONSIDERED INCIDENTAL TO THIS ITEM.



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 STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 LICENSE NO. 188-00021 - EXPIRES 4/30/2009
 PROJECT NO. 08-00146-00-TL-209
 DATE: 01-20-08



REVISIONS	
NAME	DATE

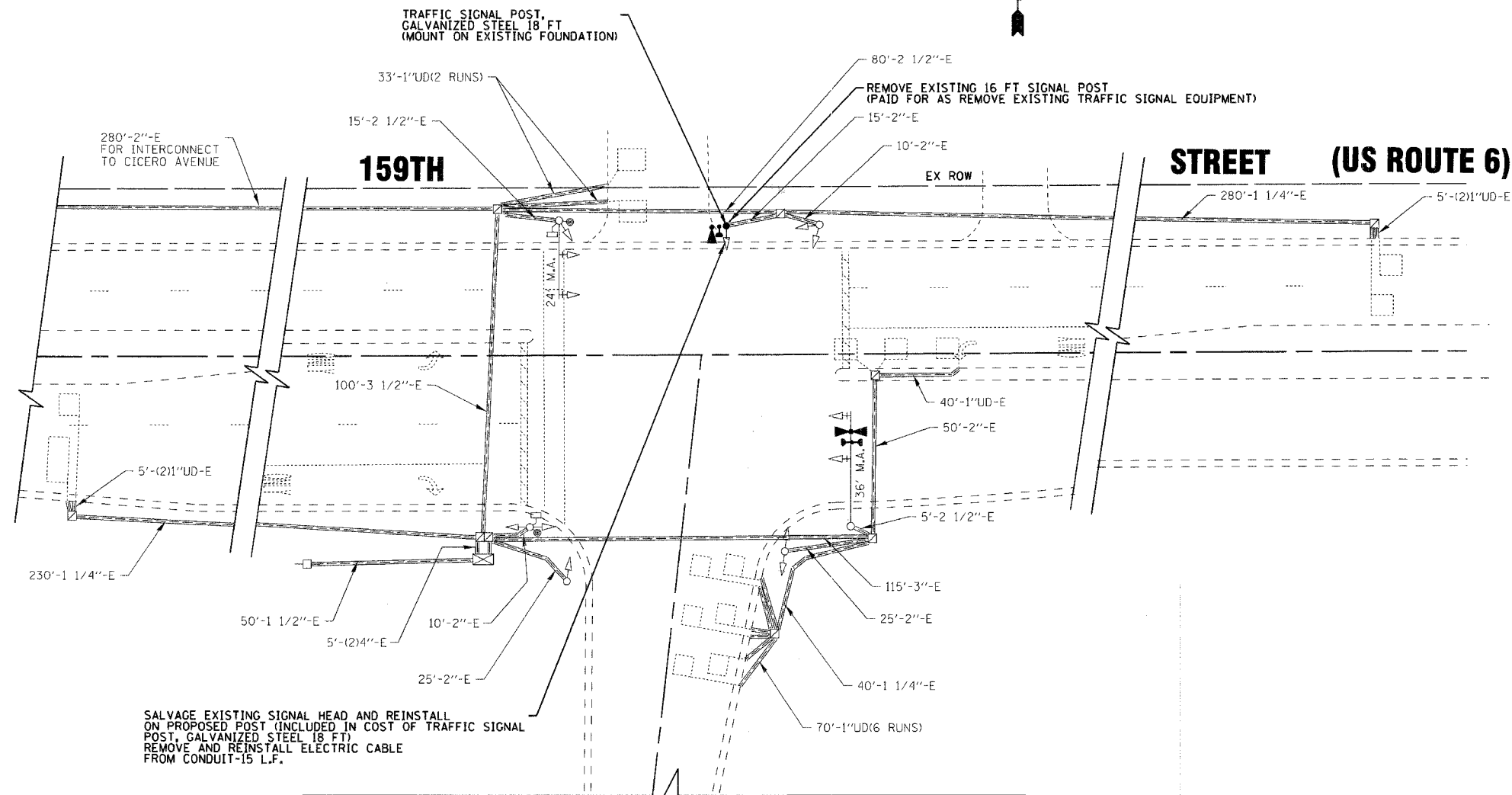
CITY OF OAK FOREST
 LOCATION NO. 101
 ILLINOIS DEPARTMENT OF TRANSPORTATION
 TRAFFIC SIGNAL INSTALLATION
 CENTRAL AVENUE AND 155TH STREET
 SCALE: 1" = 20'
 DATE: 01-02-08
 DRAWN BY: MAC
 CHECKED BY: LDH

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00146-00-TL	COOK	273	211
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
		M-8003 (867)		
CONTRACT NO. 63033				

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DELIVERED TO IDOT DISTRICT 1 SIGNAL MAINTENANCE AT A LOCATION OF THEIR CHOOSING. BOTH REMOVAL AND DELIVERY SHALL BE INCLUDED IN THE PRICE OF THIS WORK.

PAY ITEM	UNIT	QUANTITY
TRAFFIC SIGNAL POST, GALVANIZED STEEL, 16 FT	EACH	1



OAK FOREST HOSPITAL ENTRANCE

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:

- 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.

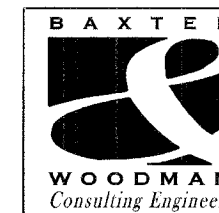
CITY OF OAK FOREST
LOCATION NO. 102

ILLINOIS DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL INSTALLATION
159TH STREET (US ROUTE 6) AND
OAK FOREST HOSPITAL ENTRANCE

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

DRAWN BY: MAC
CHECKED BY: LDH

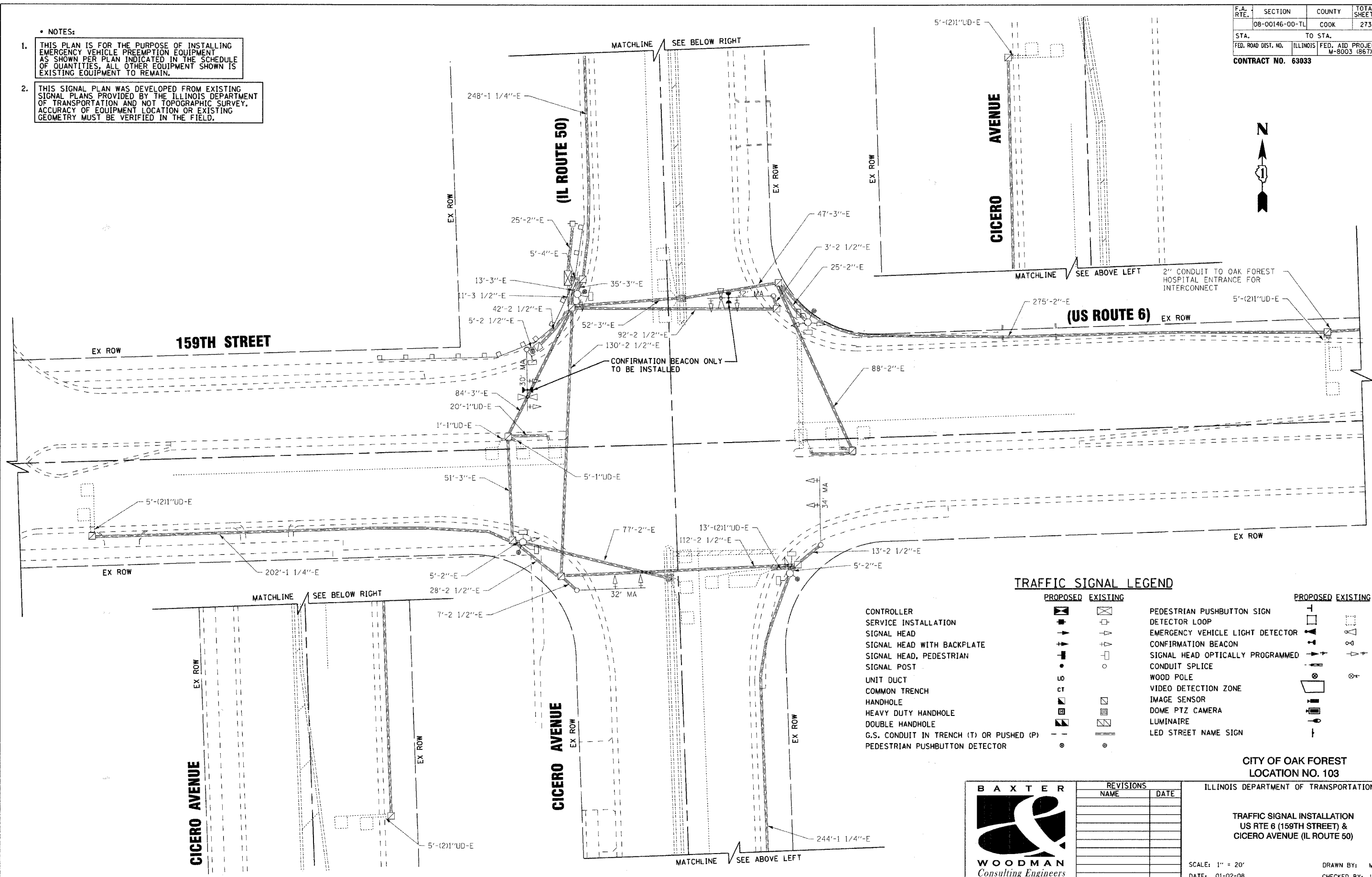


REVISIONS	
NAME	DATE

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 STATE OF ILLINOIS - REG. NO. 021-0781-0001-0001-0001
 265 S. WASHINGTON ST., SUITE 200, OAK FOREST, IL 60451-4444
 815/309-1100 FAX 815/309-1101

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
08-00146-00-TL		COOK	273	213
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	M-8003 (867)	
CONTRACT NO. 63033				

- 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.



TRAFFIC SIGNAL LEGEND

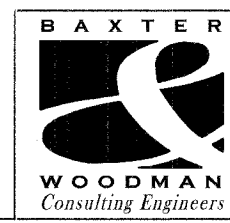
PROPOSED		EXISTING		DESCRIPTION
[Symbol]	[Symbol]	[Symbol]	[Symbol]	CONTROLLER
[Symbol]	[Symbol]	[Symbol]	[Symbol]	SERVICE INSTALLATION
[Symbol]	[Symbol]	[Symbol]	[Symbol]	SIGNAL HEAD
[Symbol]	[Symbol]	[Symbol]	[Symbol]	SIGNAL HEAD WITH BACKPLATE
[Symbol]	[Symbol]	[Symbol]	[Symbol]	SIGNAL HEAD, PEDESTRIAN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

CITY OF OAK FOREST
LOCATION NO. 103

ILLINOIS DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL INSTALLATION
US RTE 6 (159TH STREET) &
CICERO AVENUE (IL ROUTE 50)

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



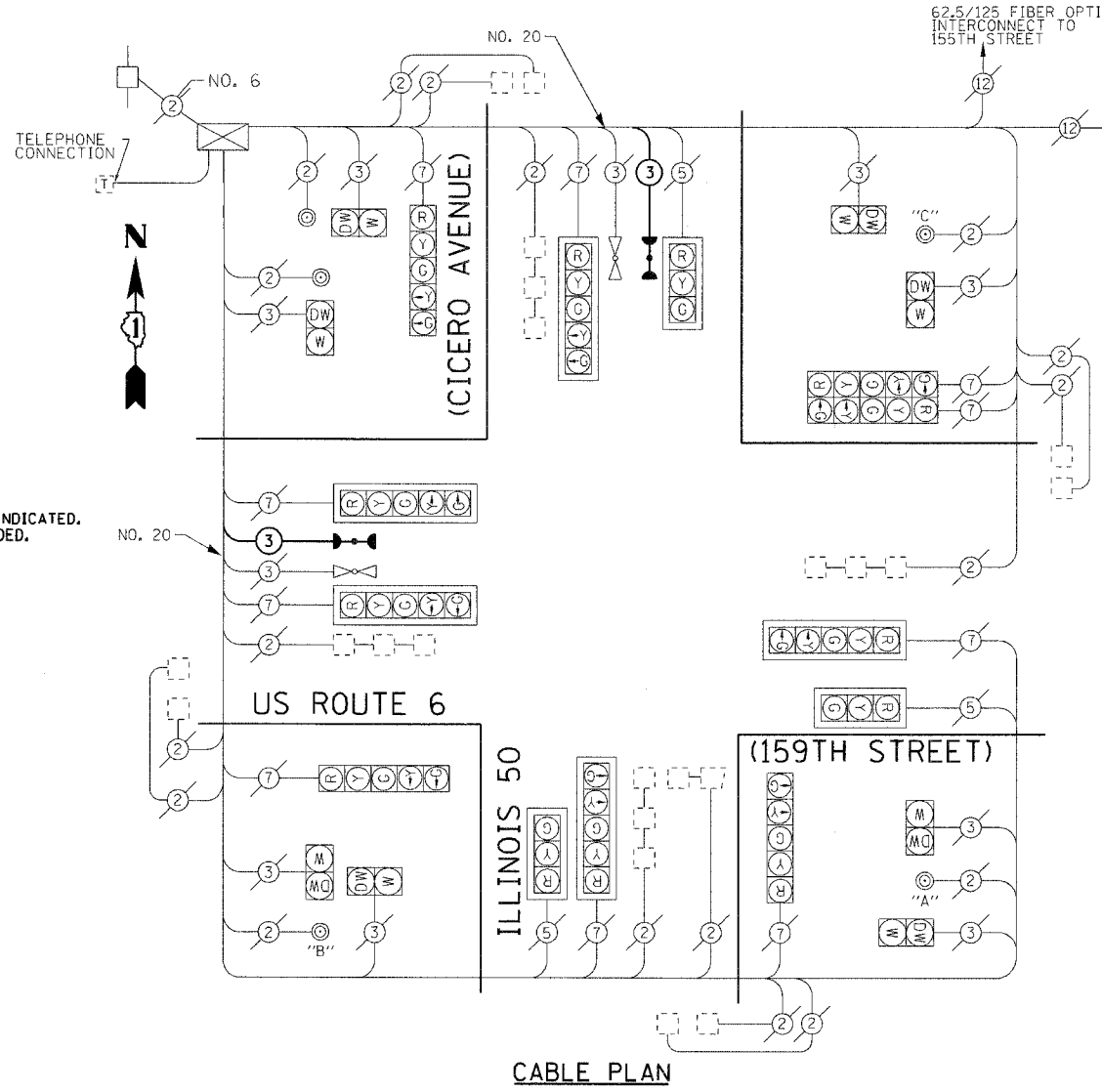
REVISIONS	
NAME	DATE

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 LICENSE NO. 084-00021 - EXPIRES 4/30/2009
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00146-00-TL	COOK	273	214
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 SM12F |
| | | 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 |



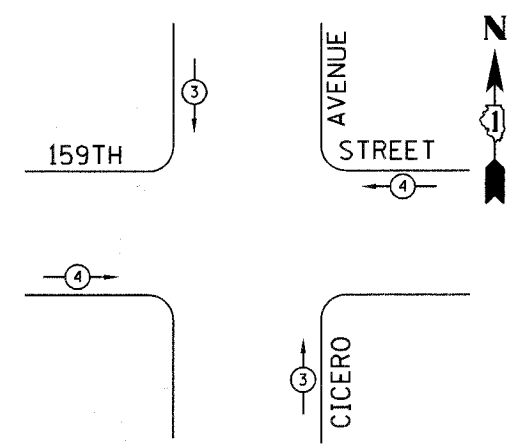
CABLE PLAN

PUSH BUTTON "A" SHALL PLACE CALLS IN PHASES 2 & 4
 PUSH BUTTON "B" SHALL PLACE CALLS IN PHASES 4 & 6
 PUSH BUTTON "C" SHALL PLACE CALLS IN PHASES 2 & 8

SCHEDULE OF QUANTITIES

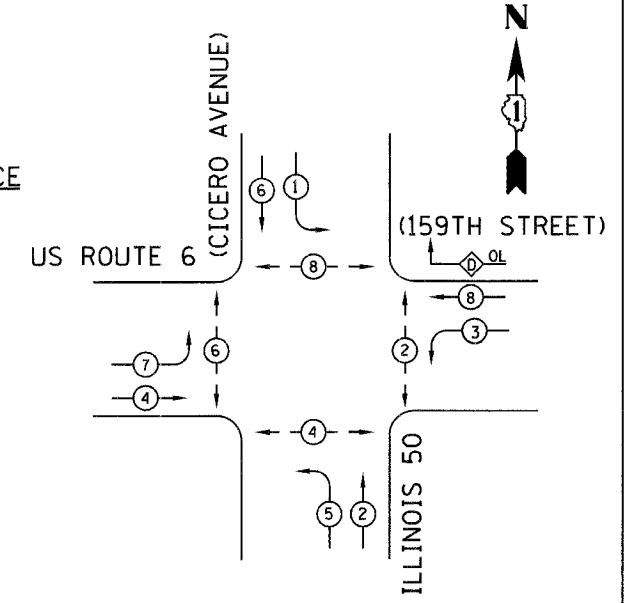
PAY ITEM	UNIT	QUANTITY
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 3C	FOOT	314
CONFIRMATION BEACON	EACH	2
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1

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
D	=	8 +	1 - 8

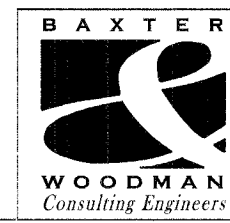
LEGEND

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

CITY OF OAK FOREST
 LOCATION NO. 103

ILLINOIS DEPARTMENT OF TRANSPORTATION
 CABLE PLAN,
 EMERGENCY VEHICLE PREEMPTION
 SEQUENCE OF OPERATION,
 PHASE DESIGNATION DIAGRAM &
 TRAFFIC SIGNAL SEQUENCE OF OPERATIONS
 US ROUTE 6 & CICERO AVENUE

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

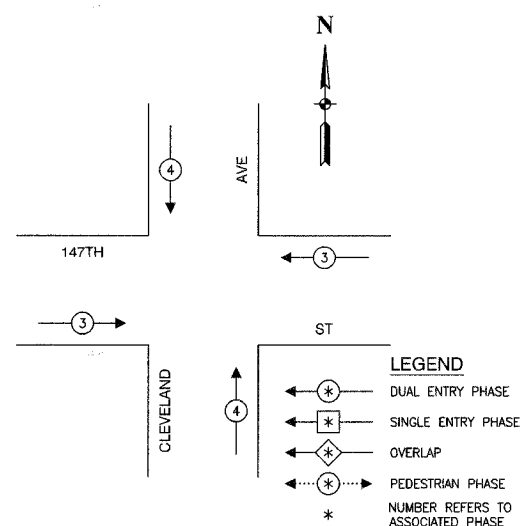
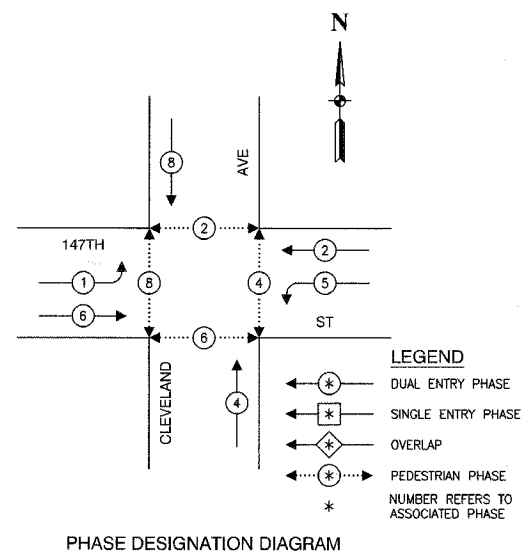


REVISIONS	
NAME	DATE

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 STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 LICENSE NO. 081-00127 - EXPIRES 4/30/2009
 PROJECT NO. 08-00146-00-TL-214
 DRAWING NO. 01-02-08
 DATE: 01-02-08

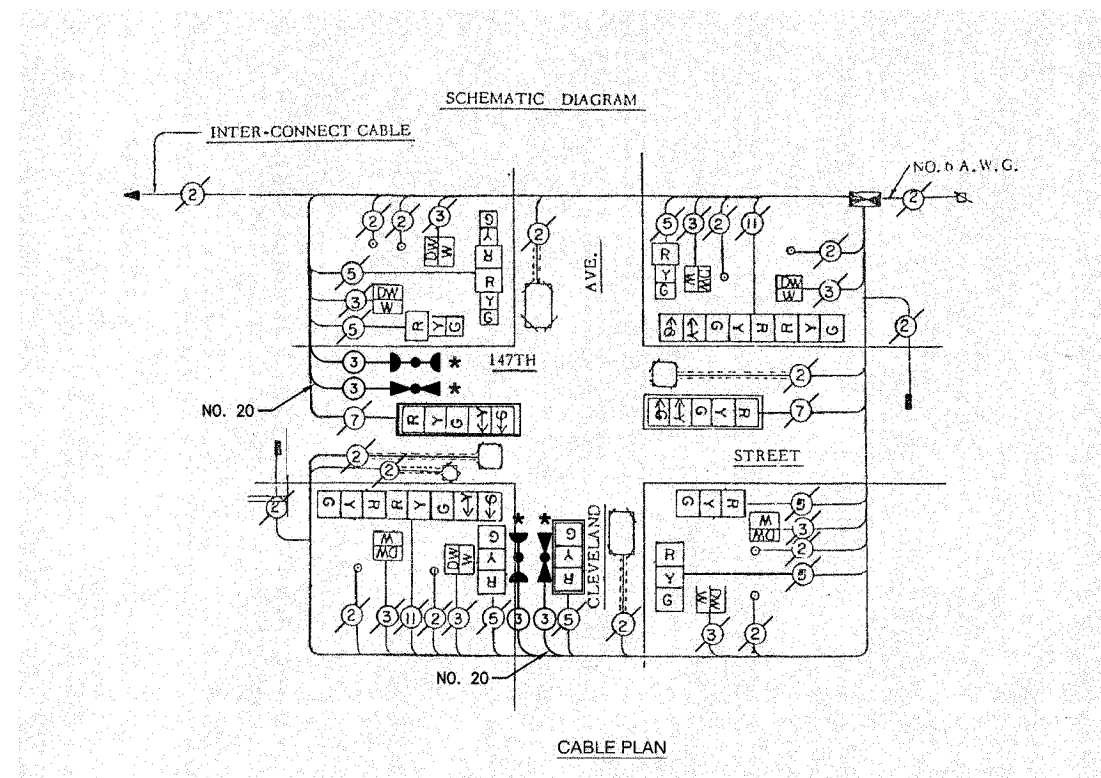
F. A. SHEET NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00146-00-TL	COOK	273	217
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 63003



EMERGENCY VEHICLE PREEMPTION SEQUENCE

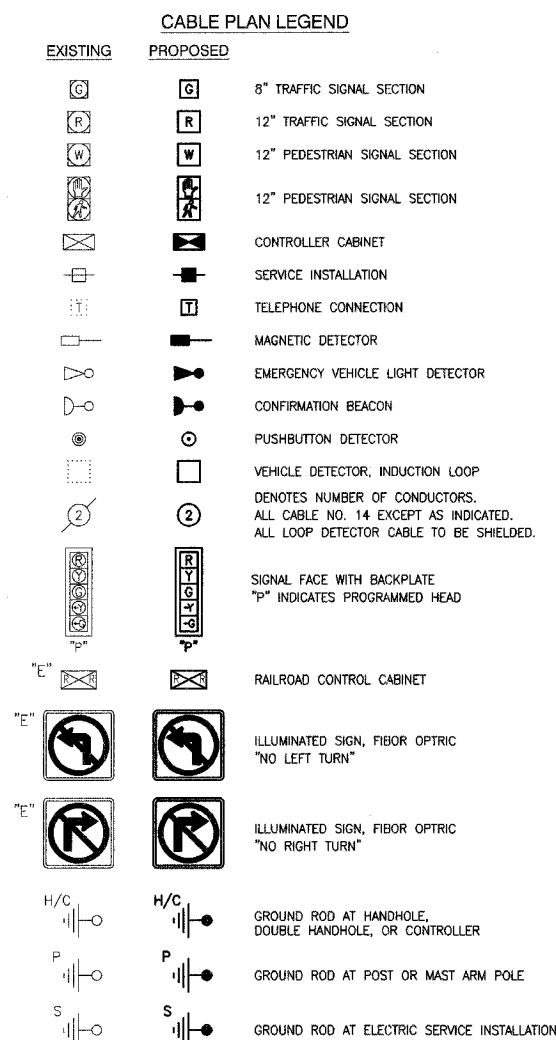
PROPOSED EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	← →	↑ ↓



SCHEDULE OF QUANTITIES		
PAY ITEM	UNIT	QUANTITY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	413
LIGHT DETECTOR	EACH	2
LIGHT DETECTOR AMPLIFIER	EACH	1
ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED	FOOT	413

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 POSEN
LOCATION NO. 104

* PLANS MODIFIED BY
ROBINSON ENGINEERING, LTD

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

ILLINOIS DEPARTMENT OF TRANSPORTATION

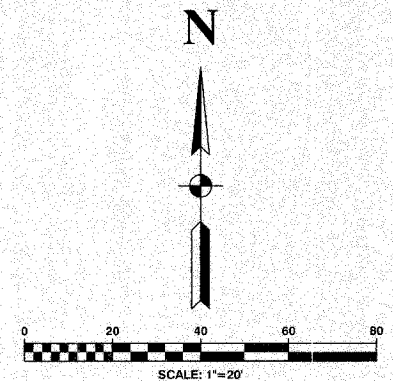
**PROPOSED EMERGENCY VEHICLE PREEMPTION
CABLE PLAN, PHASE DESIGNATION DIAGRAM &
SCHEDULE OF QUANTITIES**

147TH STREET & CLEVELAND AVENUE

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

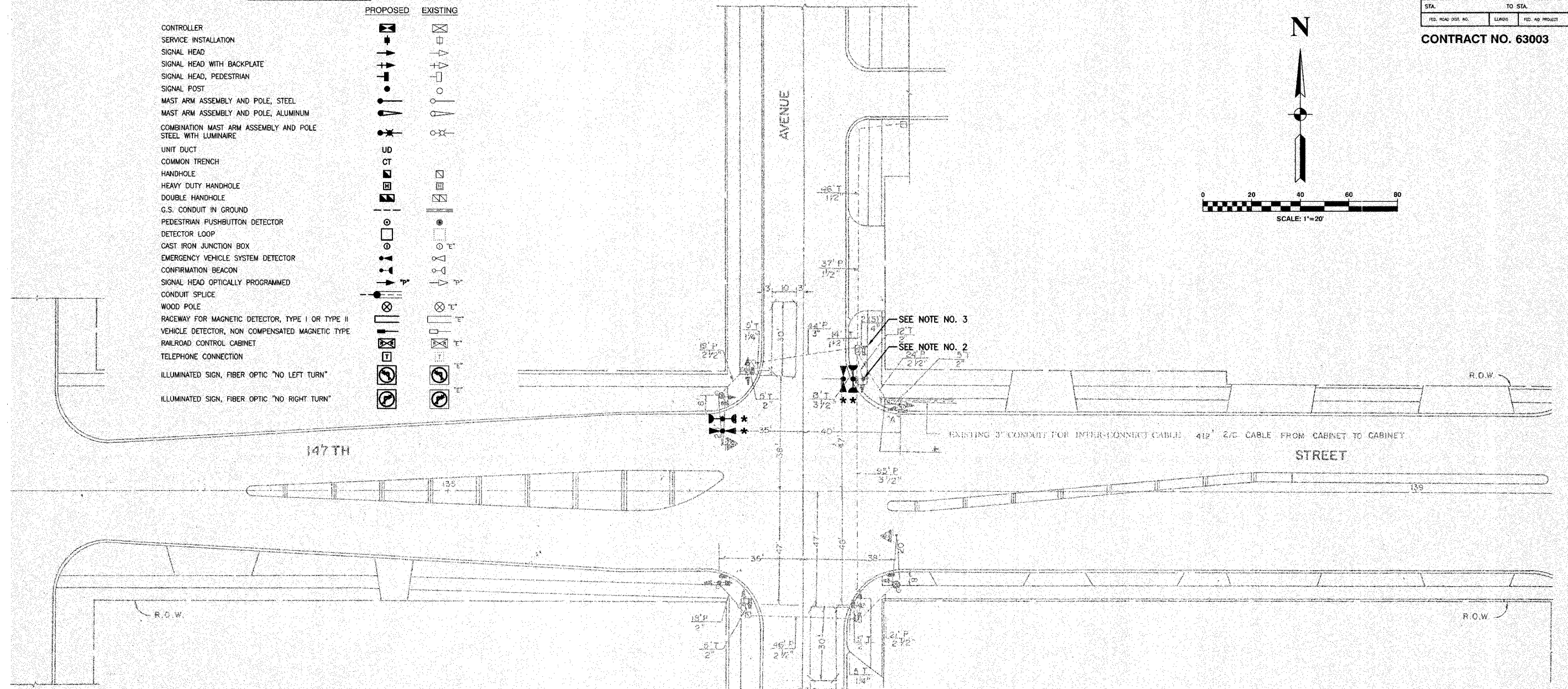
P. A. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00146-00-TL	COOK	273	218
STA.	TO STA.			
FED. ROAD DIST. NO.	LANDS	FED. AID PROJECT		

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.
- 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."
- 4. 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
- 5. 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

* PLANS MODIFIED BY ROBINSON ENGINEERING, LTD

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

ILLINOIS DEPARTMENT OF TRANSPORTATION

**PROPOSED EMERGENCY VEHICLE PREEMPTION
147TH STREET & HARRISON AVENUE**

SCALE: VERT. _____
HORIZ. _____

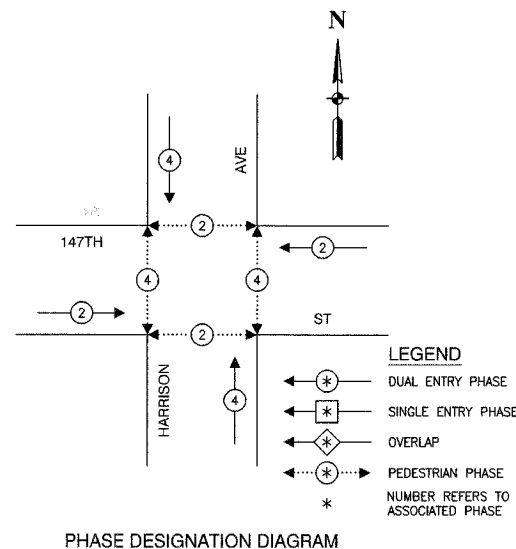
DATE _____ DRAWN BY _____
CHECKED BY _____

F.A. SHEET NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00146-00-TL	COOK	273	219
STA.	TO STA.			
FED. ROAD DIST. NO.	UNION	FED. AID PROJECT		

CONTRACT NO. 63003

CABLE PLAN LEGEND

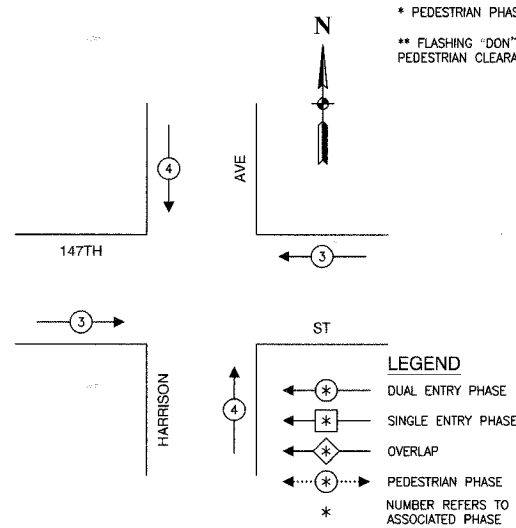
EXISTING	PROPOSED	
		8" TRAFFIC SIGNAL SECTION
		12" TRAFFIC SIGNAL SECTION
		12" PEDESTRIAN SIGNAL SECTION
		CONTROLLER CABINET
		SERVICE INSTALLATION
		TELEPHONE CONNECTION
		MAGNETIC DETECTOR
		EMERGENCY VEHICLE LIGHT DETECTOR
		CONFIRMATION BEACON
		PUSHBUTTON DETECTOR
		VEHICLE DETECTOR, INDUCTION LOOP
		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



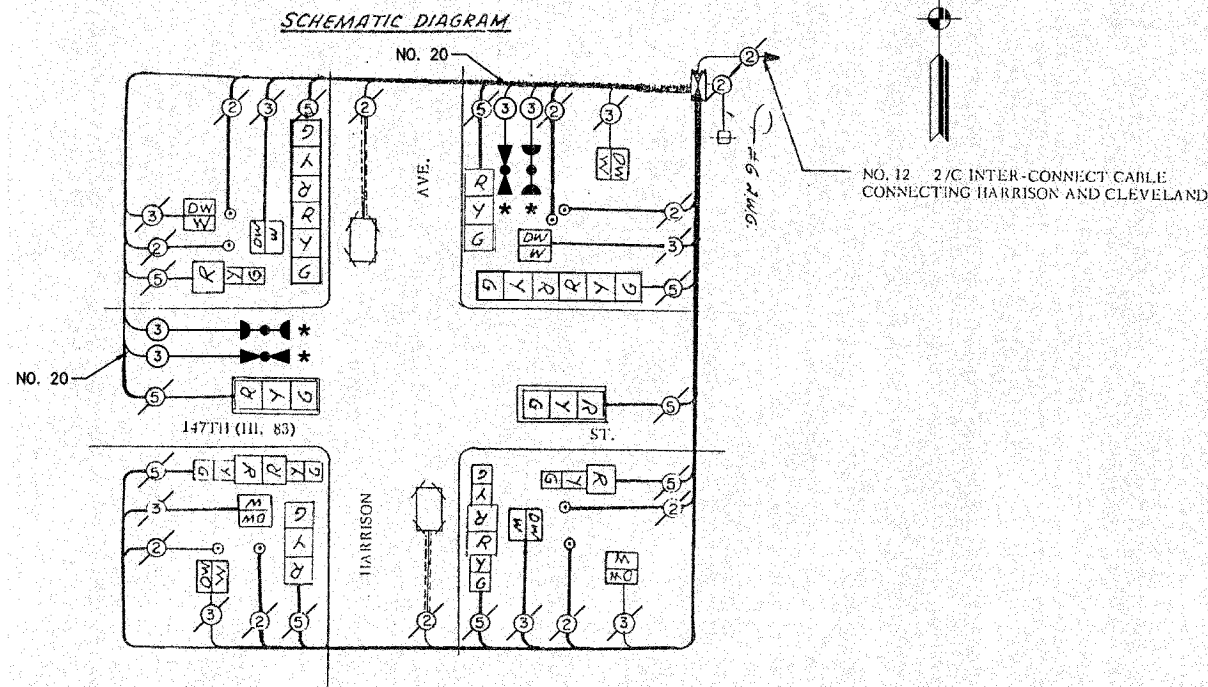
THE HARRISON STREET GREEN PHASE SHALL APPEAR A PRESET TIME AFTER THE AMBER CLEARANCE APPEARS FOR 147TH STREET AT CLEVELAND AVENUE.

* PEDESTRIAN PHASES SHALL APPEAR ONLY UPON PUSH BUTTON ACTIVATION.

** FLASHING "DON'T WALK" SHALL TERMINATE AT THE COMPLETION OF THE PEDESTRIAN CLEARANCE INTERVAL.



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 AND TYPE IV CABINET, SPECIAL	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	185
TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.	EACH	1
INDUCTIVE LOOP DETECTOR	EACH	2
LIGHT DETECTOR	EACH	2
LIGHT DETECTOR AMPLIFIER	EACH	1
RELOCATE EXISTING SIGNAL HEAD	EACH	1
RELOCATE EXISTING PEDESTRIAN SIGNAL HEAD	EACH	1
RELOCATE EXISTING PEDESTRIAN PUSH-BUTTON	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	185
MODIFY EXISTING TYPE "D" FOUNDATION	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
ADDED NEW 18" POST	
ADDED NEW CONTROLLER	

ILLINOIS DEPARTMENT OF TRANSPORTATION

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

147TH STREET & HARRISON AVENUE

SCALE: VERT. _____
HORIZ. _____

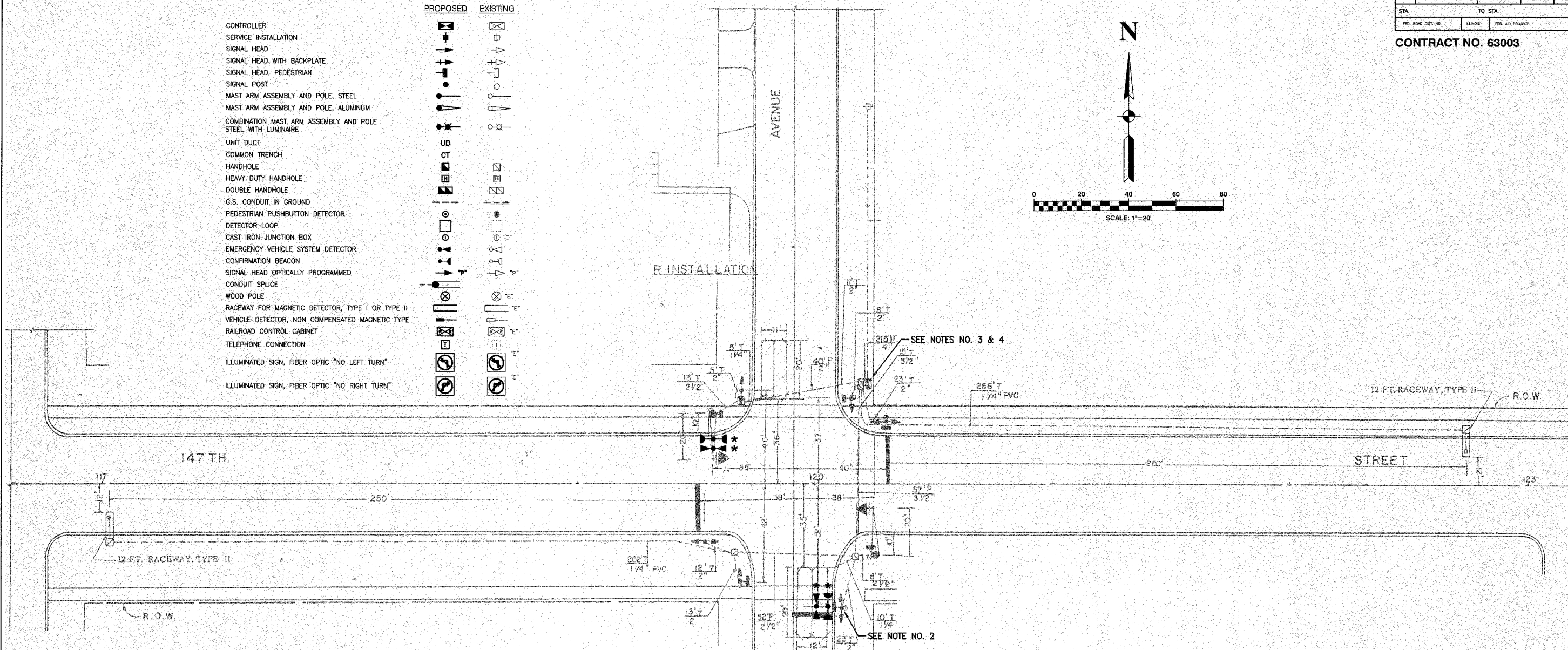
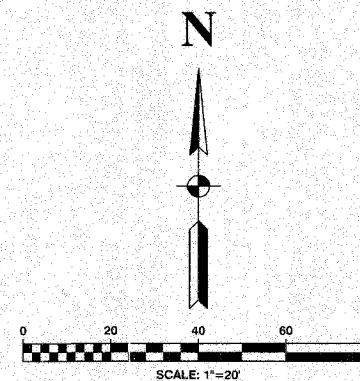
DATE _____ DRAWN BY _____
CHECKED BY _____

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
08-00146-00-TL	COOK	273	220
STA.	TO STA.		
FED. ROAD DIST. NO.	LINE	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 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."
- 4. NEW MAGNETIC LOOP DETECTOR AMPLIFIERS SHALL BE INSTALLED IN NEW CABINET.
- 5. 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
- 6. THE FOLLOWING 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 THE ENGINEER.

CONTROLLER	EACH	1
CONTROLLER CABINET	EACH	1

* PLANS MODIFIED BY ROBINSON ENGINEERING, LTD

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

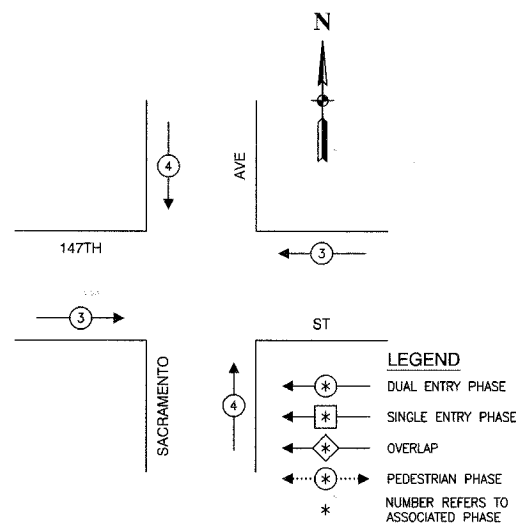
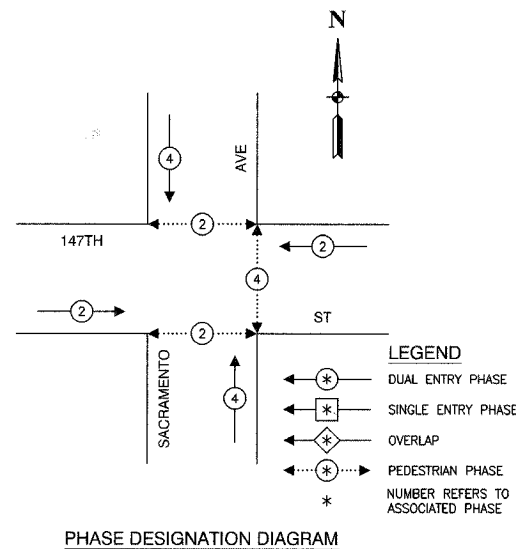
ILLINOIS DEPARTMENT OF TRANSPORTATION

PROPOSED EMERGENCY VEHICLE PREEMPTION
147TH STREET & SACRAMENTO AVENUE

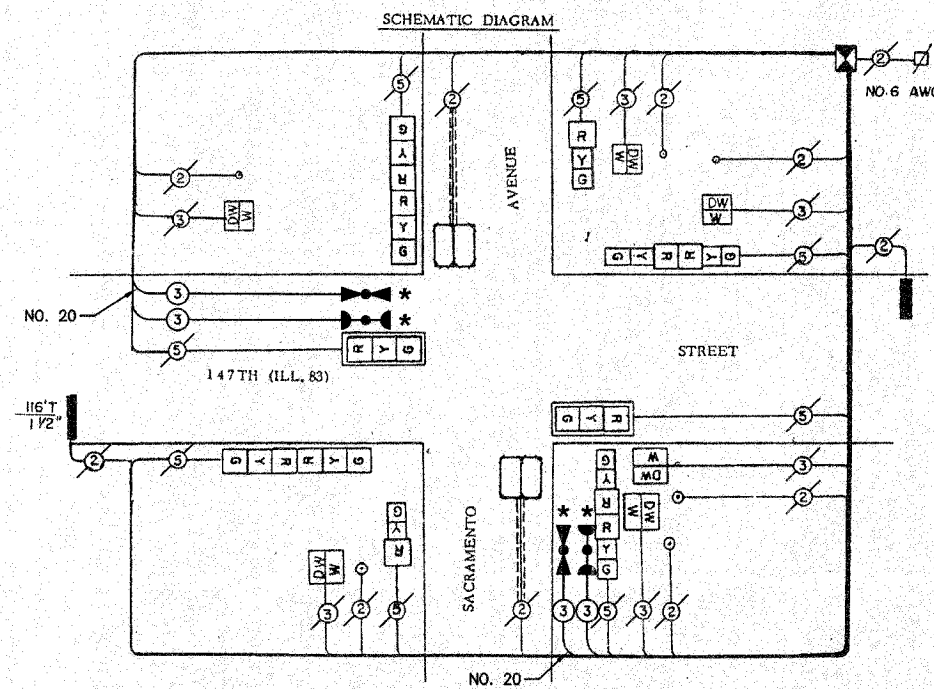
SCALE: VERT. _____
HORIZ. _____
DATE _____ DRAWN BY _____
CHECKED BY _____

F. A. ETC.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00146-00-TL	COOK	273	221
STA.	TO STA.			
FED. ROAD DIST. NO.	LINE	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	280
TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.	EACH	1
INDUCTIVE LOOP DETECTOR	EACH	2
LIGHT DETECTOR	EACH	2
LIGHT DETECTOR AMPLIFIER	EACH	1
RELOCATE EXISTING SIGNAL HEAD	EACH	2
RELOCATE EXISTING PEDESTRIAN SIGNAL HEAD	EACH	1
RELOCATE EXISTING PEDESTRIAN PUSH-BUTTON	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	280
MODIFY EXISTING TYPE "D" FOUNDATION	EACH	1
MAGNETIC DETECTOR AMPLIFIER	EACH	2

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
(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)	2 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

REVISIONS

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

ILLINOIS DEPARTMENT OF TRANSPORTATION

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

147TH STREET & SACRAMENTO AVENUE

SCALE: VERT. _____
 HORIZ. _____

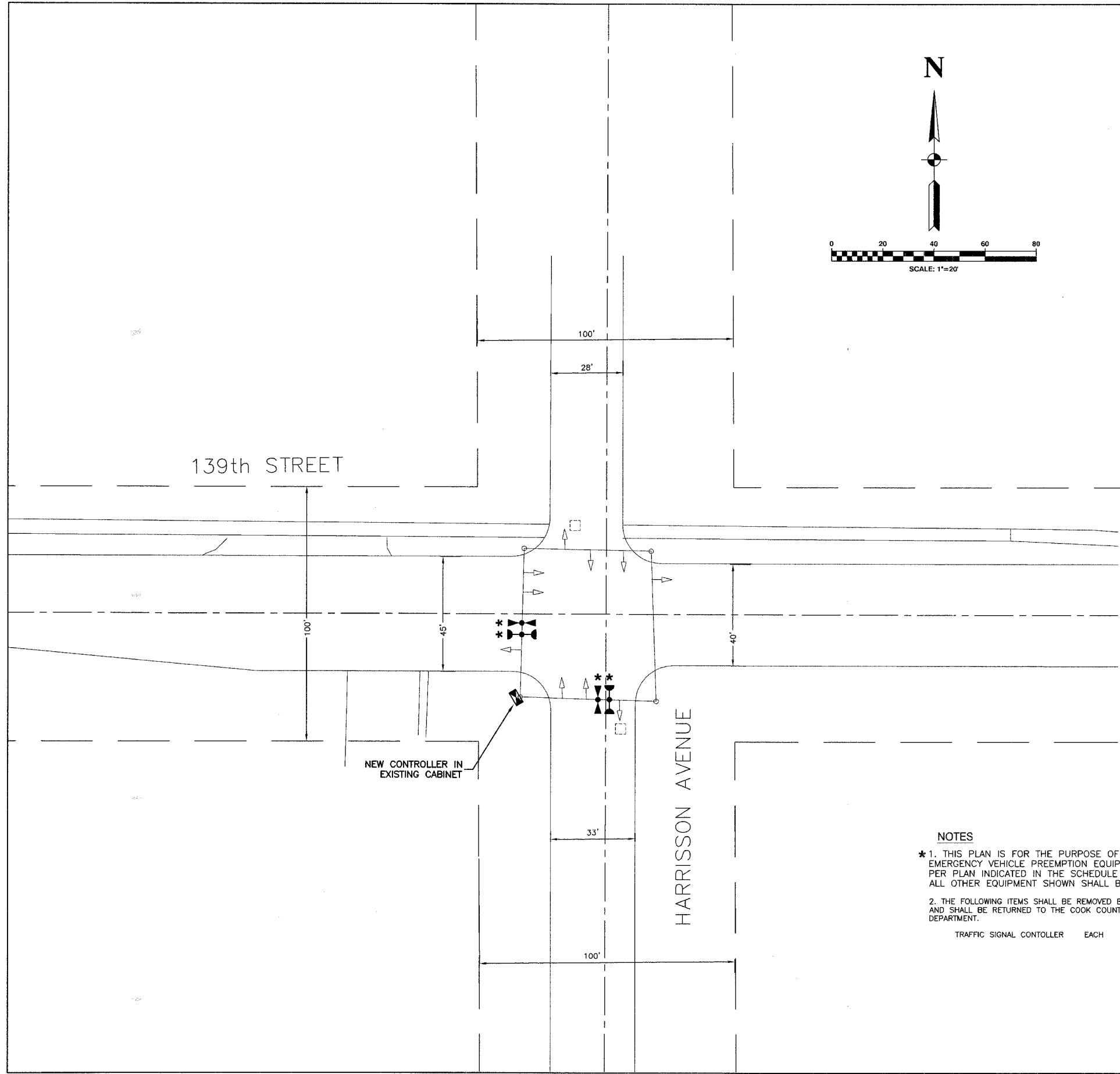
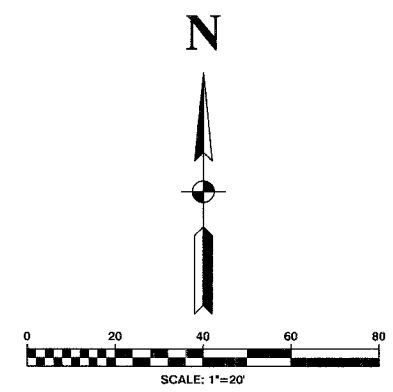
DRAWN BY _____
 CHECKED BY _____

P.A. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00146-00-TL	COOK	273	222
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 D.J.C.T | | |
| 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 FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE RETURNED TO THE COOK COUNTY HIGHWAY DEPARTMENT.

TRAFFIC SIGNAL CONTROLLER EACH 1

* PLANS MODIFIED BY ROBINSON ENGINEERING, LTD

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

VILLAGE OF POSEN
LOCATION NO. 107

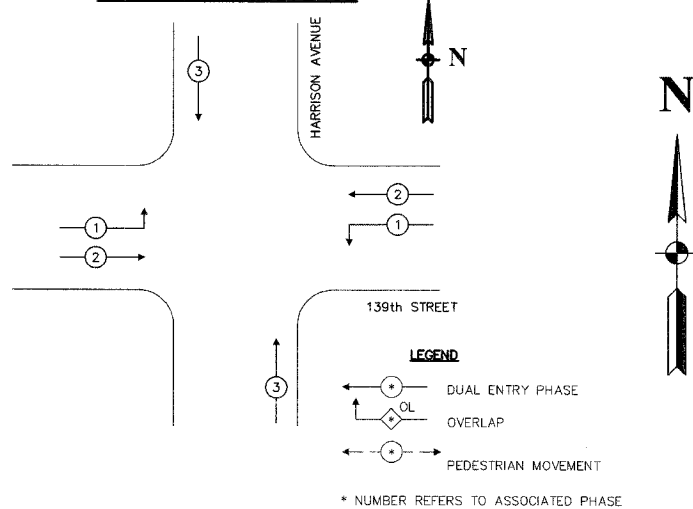
ILLINOIS DEPARTMENT OF TRANSPORTATION
**PROPOSED EMERGENCY VEHICLE PREEMPTION
139TH STREET AND HARRISON AVENUE**

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

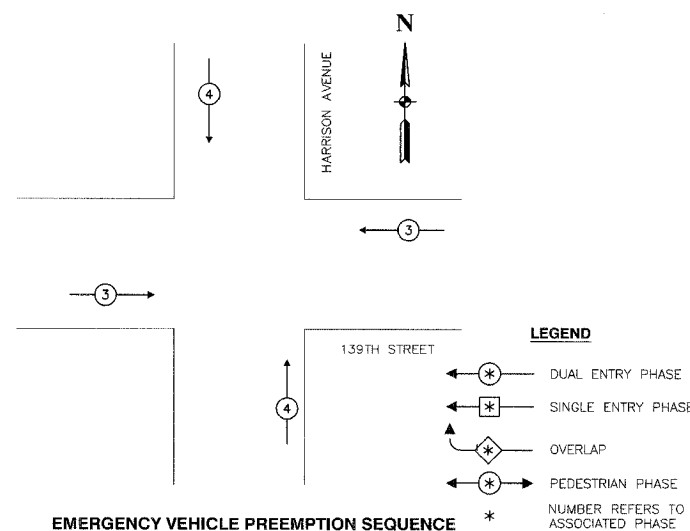
F. A. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00146-00-TL	COOK	273	223
STA.	TO STA.			
FED. ROAD DIST. NO.	ALNOS	FED. AID PROJECT		

CONTRACT NO. 63003

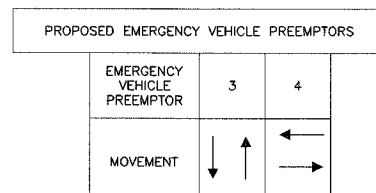
CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM

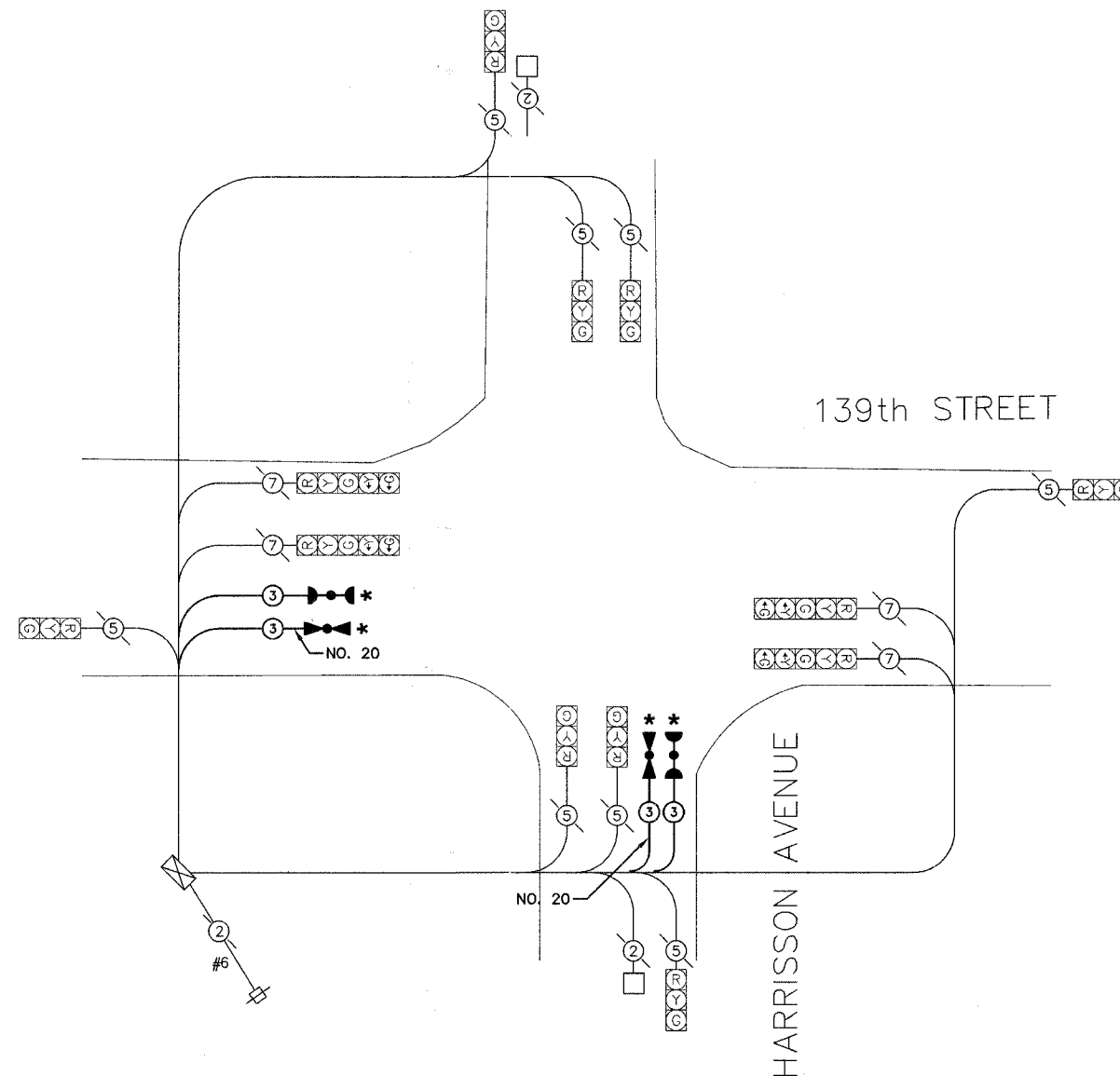


EMERGENCY VEHICLE PREEMPTION SEQUENCE



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 "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
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
ELECTRIC CABLE AERIAL SUSPENDED, SIGNAL, NO. 14 3C	FOOT	194
LIGHT DETECTOR	EACH	2
LIGHT DETECTOR AMPLIFIER	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
ELECTRIC CABLE AERIAL SUSPENDED NO. 20 3/C, TWISTED, SHIELDED	FOOT	194

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

* PLANS MODIFIED BY
 ROBINSON ENGINEERING, LTD

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

VILLAGE OF POSEN
 LOCATION NO. 107

ILLINOIS DEPARTMENT OF TRANSPORTATION

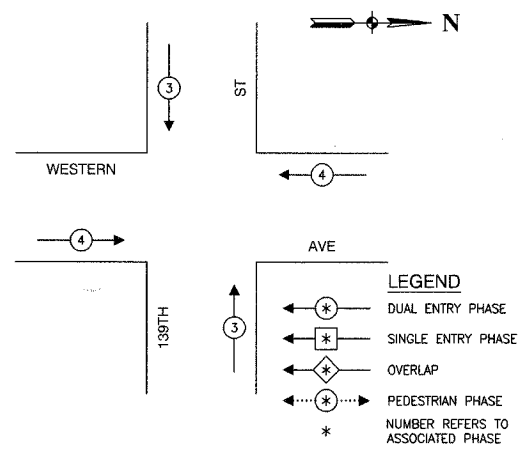
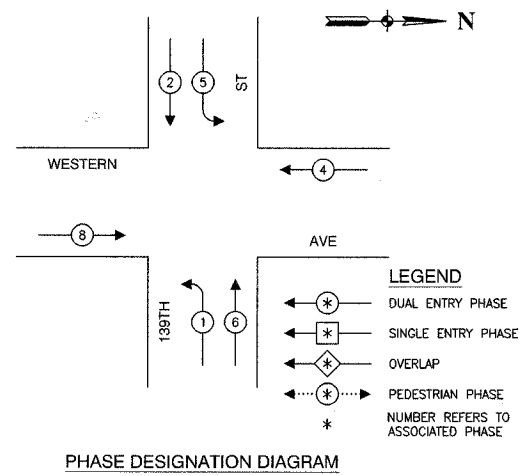
PROPOSED EMERGENCY VEHICLE PREEMPTION
 CABLE PLAN, PHASE DESIGNATION DIAGRAM &
 SCHEDULE OF QUANTITIES
 139TH STREET AND HARRISSON AVENUE

SCALE: VERT. _____
 HORIZ. _____

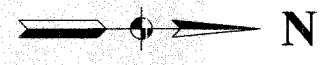
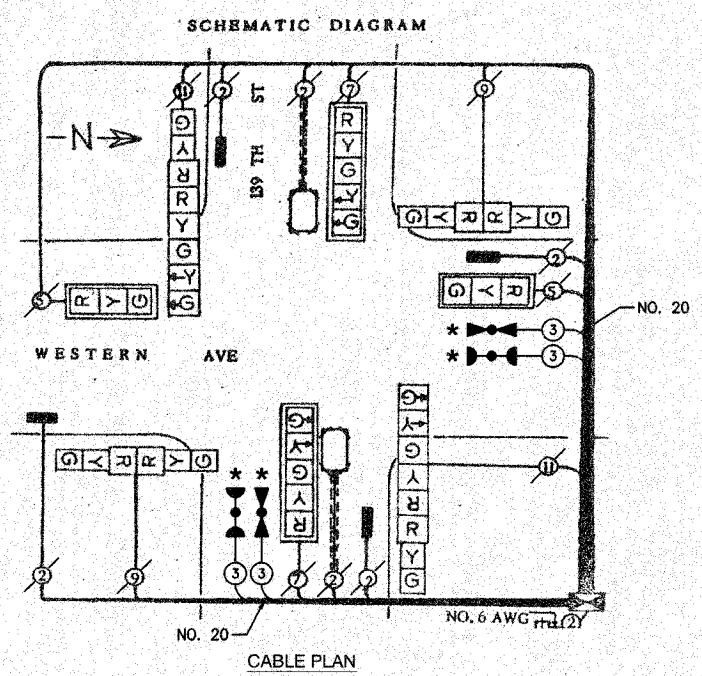
DATE _____ DRAWN BY _____
 CHECKED BY _____

F. A. REF.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00146-00-TL	COOK	273	225
STA.		TO STA.		
FED. ROAD DIST. NO.	SLIPKIP	FED. AID PROJECT		

CONTRACT NO. 63003



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



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

SCHEDULE OF QUANTITIES

PAY ITEM	UNIT	QUANTITY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	228
LIGHT DETECTOR	EACH	2
LIGHT DETECTOR AMPLIFIER	EACH	1
ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED	FOOT	228

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

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

139TH STREET & WESTERN AVENUE

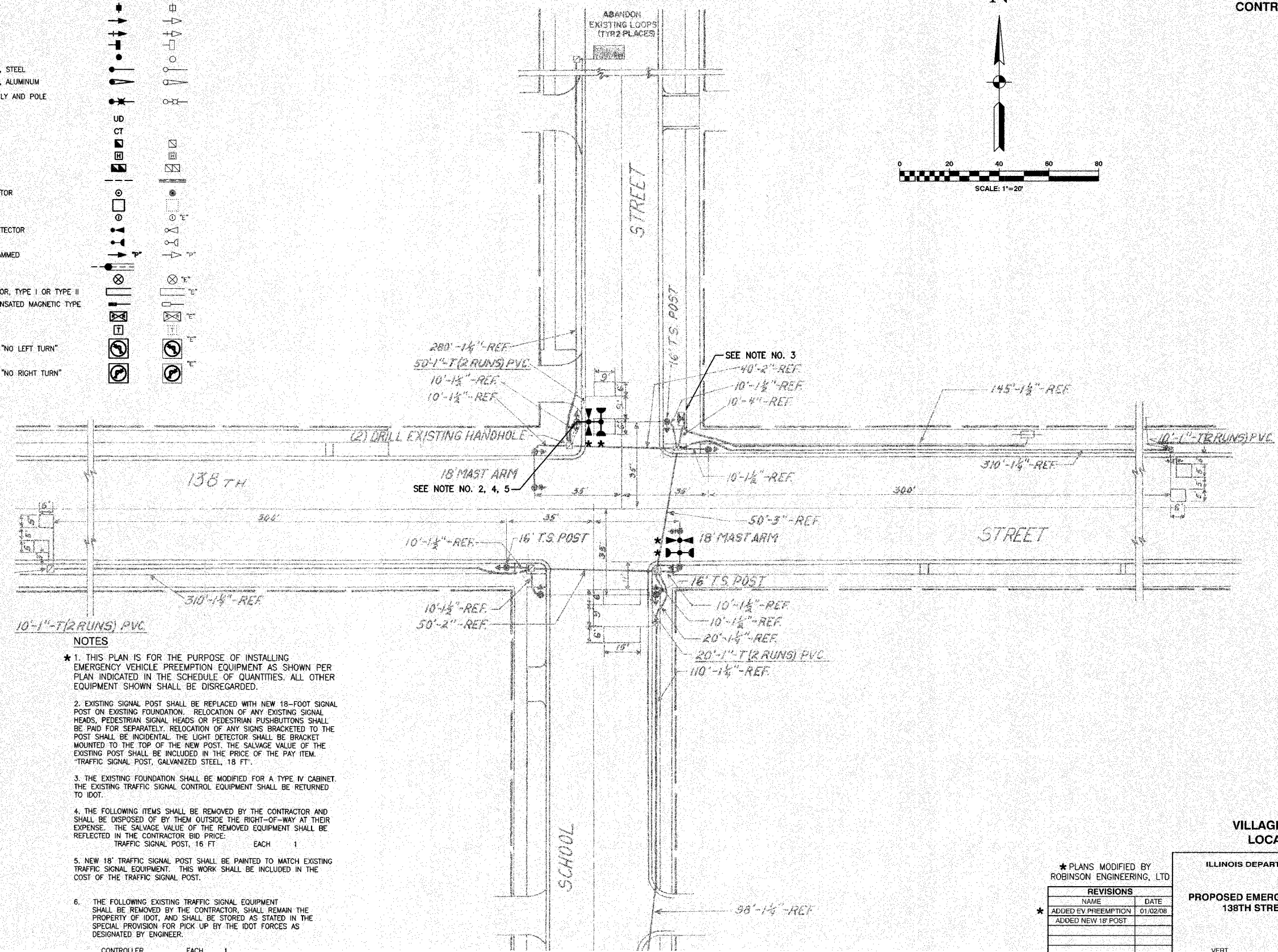
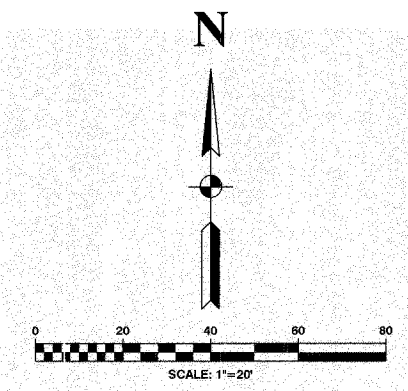
SCALE: VERT. _____ DRAWN BY _____
 HORIZ. _____ CHECKED BY _____
 DATE _____

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
08-00146-00-TL	COOK	273	226
STA.		TO STA.	
FED. ROAD DIST. NO.	LANDS	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 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. THE EXISTING FOUNDATION SHALL BE MODIFIED FOR A TYPE IV CABINET. THE EXISTING TRAFFIC SIGNAL CONTROL EQUIPMENT SHALL BE RETURNED TO IDOT.
 4. 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
----------------------------	------	---
 5. NEW 18' TRAFFIC SIGNAL POST SHALL BE PAINTED TO MATCH EXISTING TRAFFIC SIGNAL EQUIPMENT. THIS WORK SHALL BE INCLUDED IN THE COST OF THE TRAFFIC SIGNAL POST.
 6. 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

* PLANS MODIFIED BY ROBINSON ENGINEERING, LTD

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

VILLAGE OF RIVERDALE
LOCATION NO. 109

ILLINOIS DEPARTMENT OF TRANSPORTATION

PROPOSED EMERGENCY VEHICLE PREEMPTION
138TH STREET & SCHOOL STREET

SCALE: VERT. _____
 HORIZ. _____

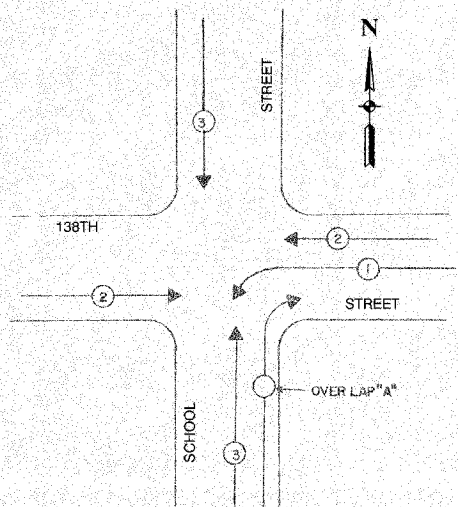
DATE _____

DRAWN BY _____
CHECKED BY _____

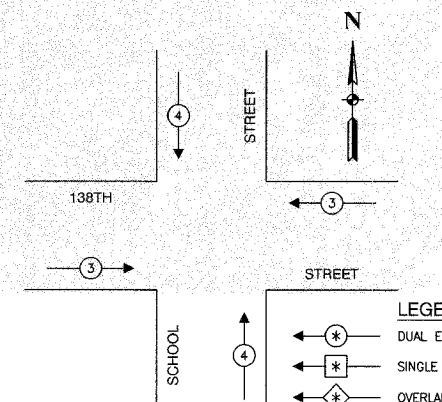
F. A. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00146-00-TL	COOK	273	227
STA.	TO STA.			
FED. ROAD DIST. NO.	STATE	FED. AID PROJECT		

CONTRACT NO. 63003

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



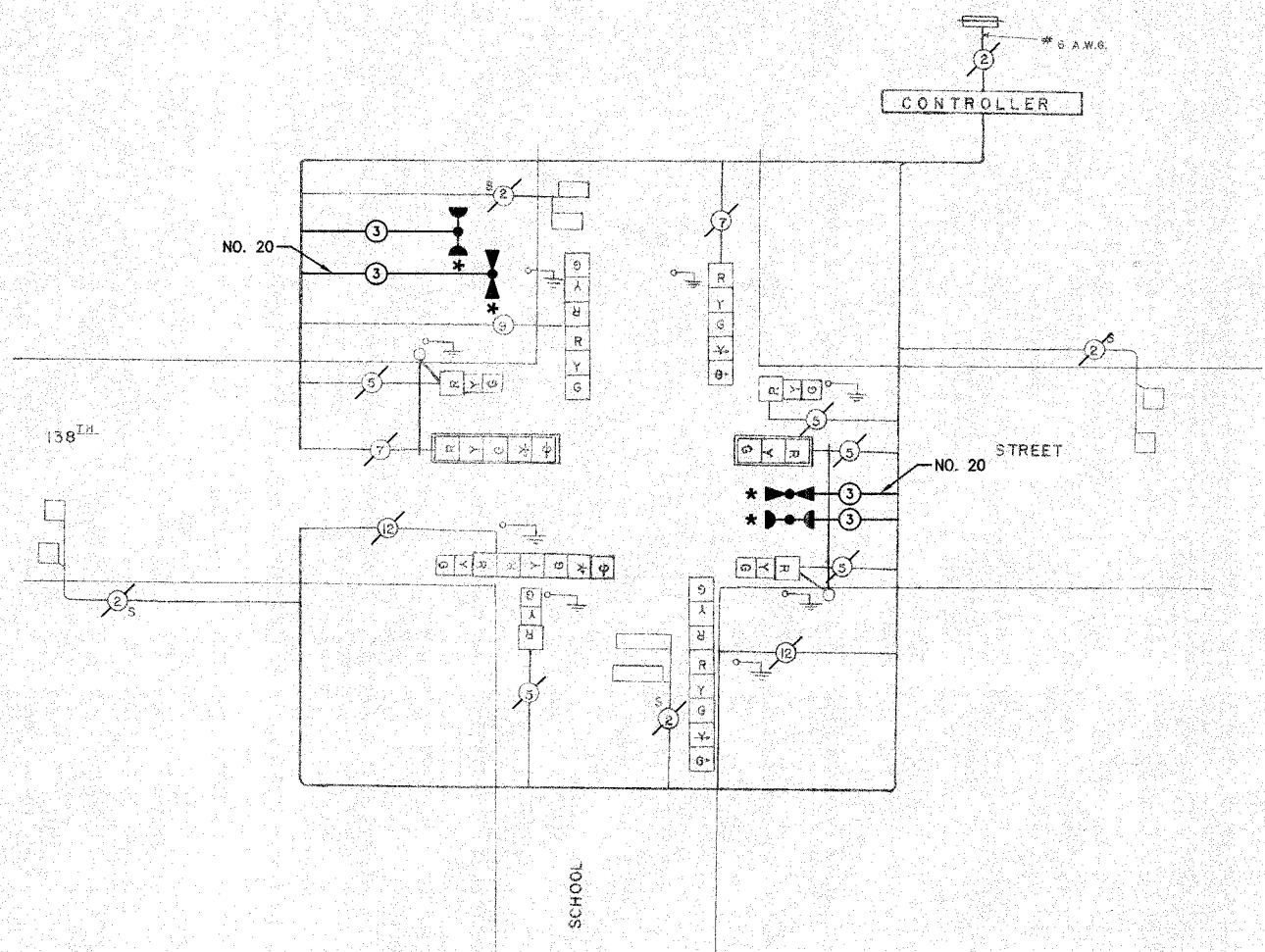
PHASE DESIGNATION DIAGRAM



LEGEND
 ← 3 → DUAL ENTRY PHASE
 ← * → SINGLE ENTRY PHASE
 ← 3 → 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
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	234
TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.	EACH	1
INDUCTIVE LOOP DETECTOR	EACH	4
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	EACH	234
MODIFY EXISTING TYPE "D" FOUNDATION	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
		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

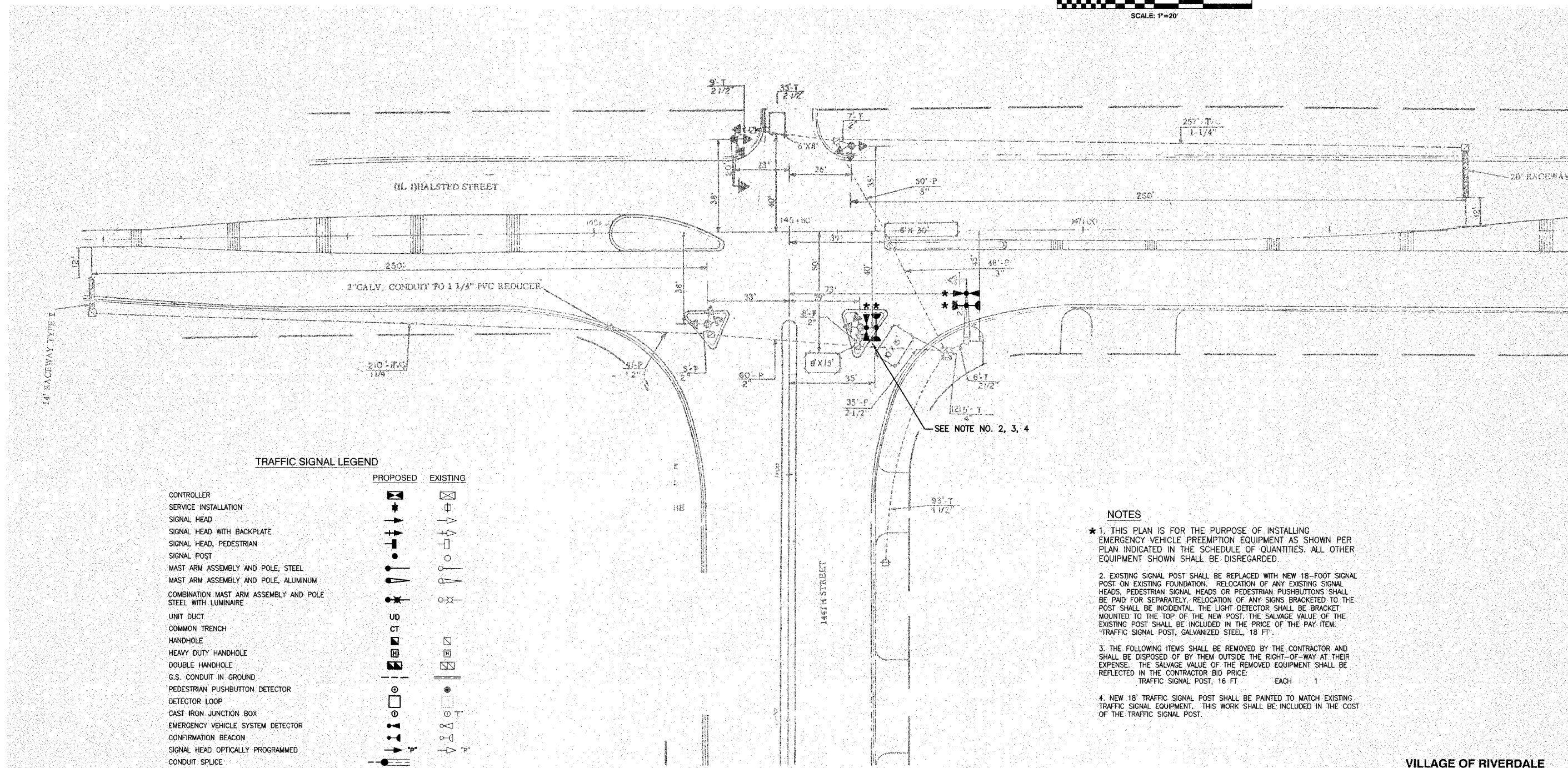
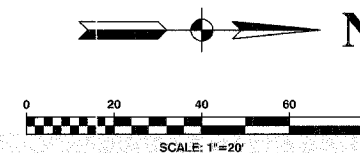
* PLANS MODIFIED BY ROBINSON ENGINEERING, LTD.

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

ILLINOIS DEPARTMENT OF TRANSPORTATION
 PROPOSED EMERGENCY VEHICLE PREEMPTION CABLE PLAN, PHASE DESIGNATION DIAGRAM & SCHEDULE OF QUANTITIES
 138TH STREET & SCHOOL STREET
 SCALE: VERT. _____
 HORIZ. _____
 DATE _____ DRAWN BY _____
 CHECKED BY _____

F. A. SHEET	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00146-00-TL	COOK	273	228
STA.		TO STA.		
FED. ROAD DIST. NO.	BLANKS	FED. RD 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. 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 BRACKETED 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 CONTRACTOR BID PRICE:
TRAFFIC SIGNAL POST, 16 FT EACH 1
- 4. NEW 18' TRAFFIC SIGNAL POST SHALL BE PAINTED TO MATCH EXISTING TRAFFIC SIGNAL EQUIPMENT. THIS WORK SHALL BE INCLUDED IN THE COST OF THE TRAFFIC SIGNAL POST.

VILLAGE OF RIVERDALE
LOCATION NO. 110

* PLANS MODIFIED BY
ROBINSON ENGINEERING, LTD

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

ILLINOIS DEPARTMENT OF TRANSPORTATION
**PROPOSED EMERGENCY VEHICLE PREEMPTION
144TH STREET & HALSTED STREET**

SCALE: VERT. _____
HORIZ. _____

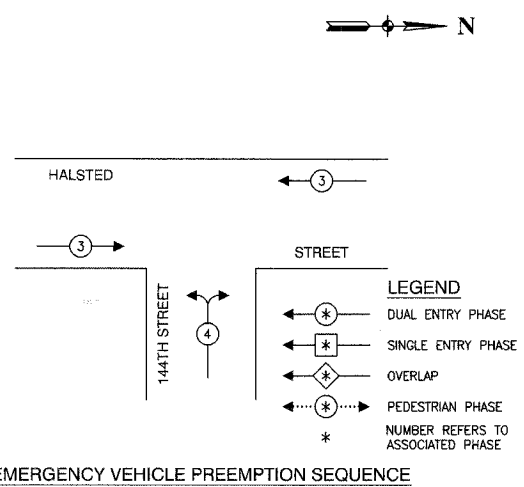
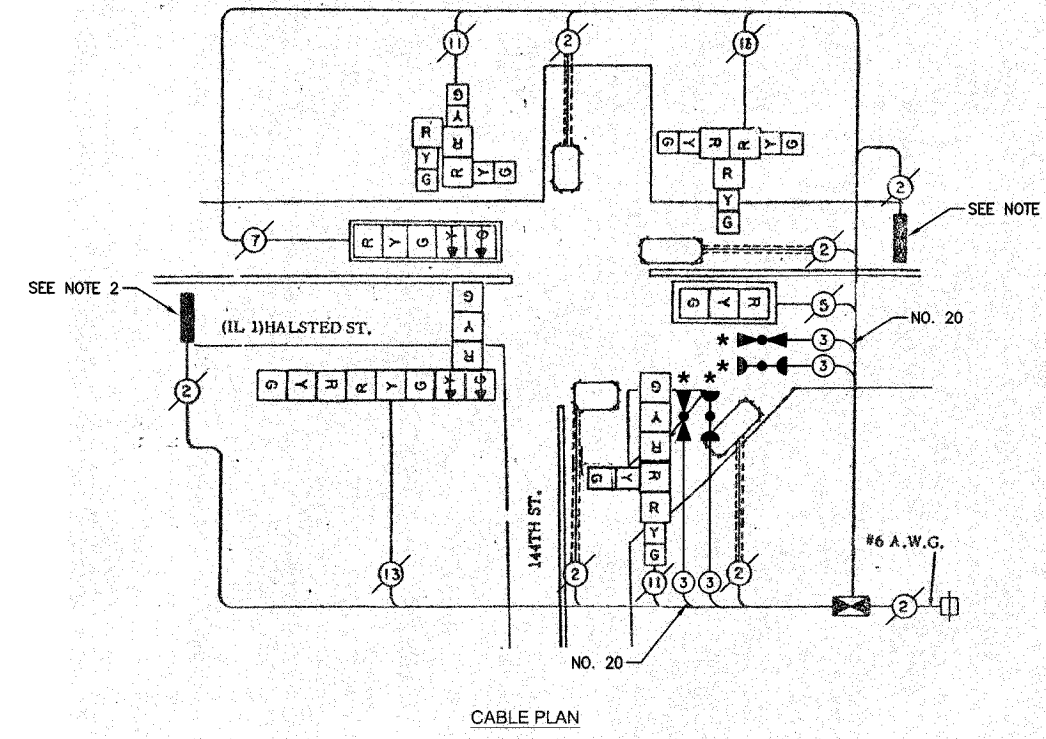
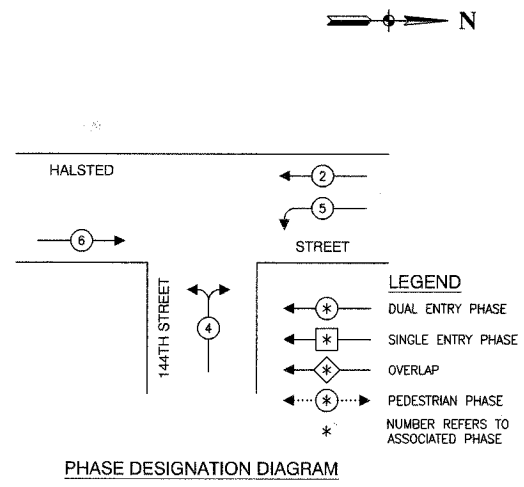
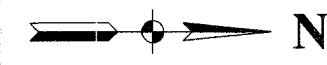
DATE _____ DRAWN BY _____
CHECKED BY _____

F. A. SHEET	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00146-00-TL	COOK	273	229
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



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	164
TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.	EACH	1
LIGHT DETECTOR	EACH	2
LIGHT DETECTOR AMPLIFIER	EACH	1
RELOCATE EXISTING SIGNAL HEAD	EACH	3
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	EACH	164

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	

ILLINOIS DEPARTMENT OF TRANSPORTATION
 LOCATION NO. 110

PROPOSED EMERGENCY VEHICLE PREEMPTION CABLE PLAN, PHASE DESIGNATION DIAGRAM & SCHEDULE OF QUANTITIES
 144TH STREET & HALSTED STREET

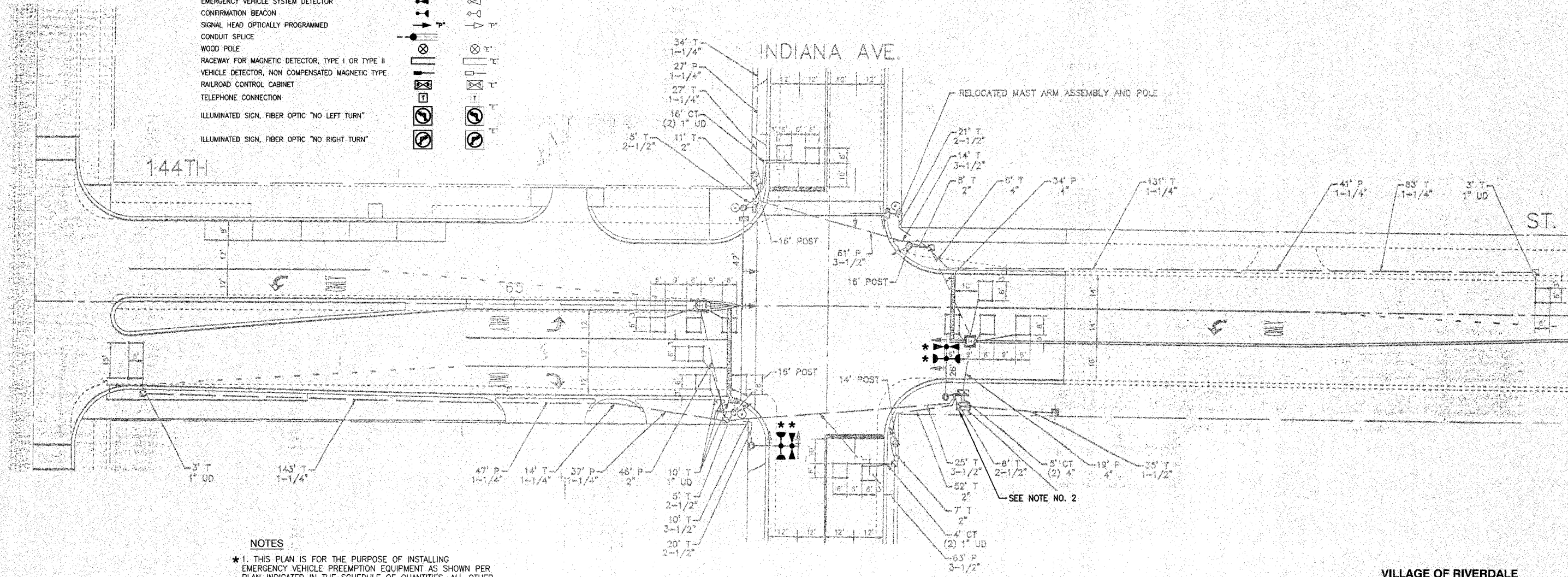
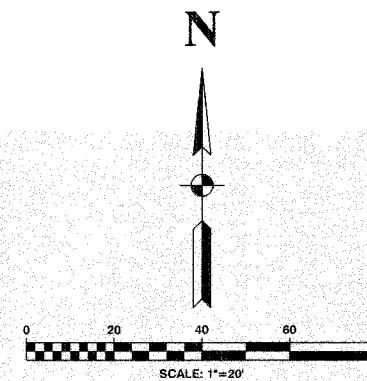
SCALE: VERT. _____ DRAWN BY _____
 HORIZ. _____ CHECKED BY _____
 DATE _____

F. A. SHEET NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00146-00-TL	COOK	273	230
STA.		TO STA.		
FED. ROAD DIST. NO.	LINKS	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 AND CABINET SHALL BE REMOVED AND REPLACED ON THE EXISTING FOUNDATION.
 - 3. THE FOLLOWING 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 THE ENGINEER.

CONTROLLER	EACH	1
CONTROLLER CABINET	EACH	1

* PLANS MODIFIED BY
ROBINSON ENGINEERING, LTD

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

ILLINOIS DEPARTMENT OF TRANSPORTATION

**PROPOSED EMERGENCY VEHICLE PREEMPTION
144TH STREET & INDIANA AVENUE**

SCALE: VERT. _____
HORIZ. _____

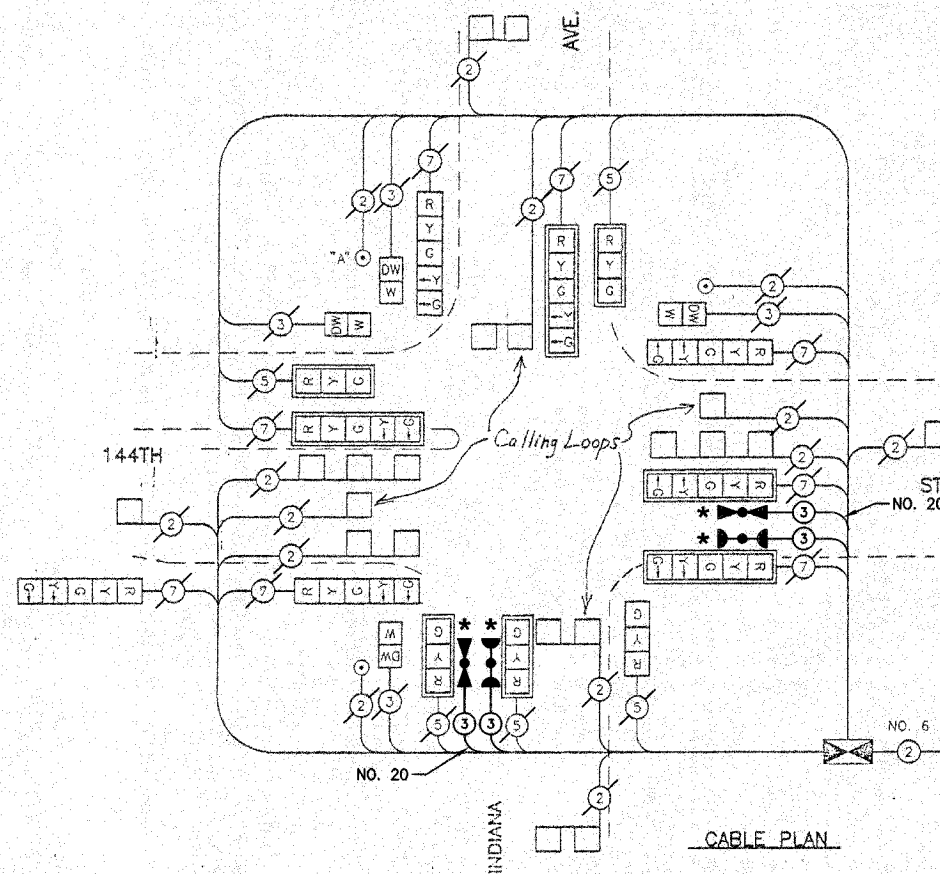
DATE _____ DRAWN BY _____
CHECKED BY _____

P.A. ETC.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00146-00-TL	COOK	273	231
STA.	TO STA.			
FED. ROAD DIST. NO.	SLIPNO.	FED. AID PROJECT		

CONTRACT NO. 63003

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 |
| | | 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 |



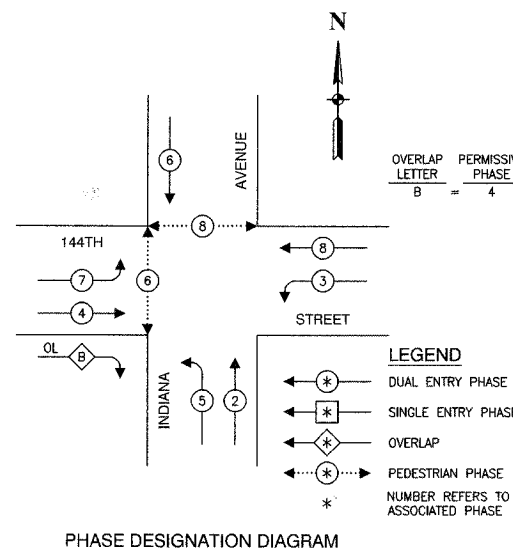
NOTE:
PUSHBUTTON "A" SHALL PLACE A CALL IN PHASES 6 AND 8.

SCHEDULE OF QUANTITIES

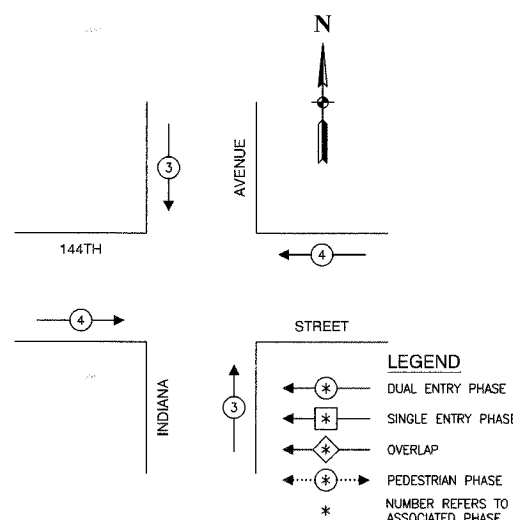
PAY ITEM	UNIT	QUANTITY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	183
INDUCTIVE LOOP DETECTOR	EACH	11
LIGHT DETECTOR	EACH	2
LIGHT DETECTOR AMPLIFIER	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED	EACH	183

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.



PHASE DESIGNATION DIAGRAM



EMERGENCY VEHICLE PREEMPTION SEQUENCE

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

VILLAGE OF RIVERDALE
LOCATION NO. 111

ILLINOIS DEPARTMENT OF TRANSPORTATION

PROPOSED EMERGENCY VEHICLE PREEMPTION
CABLE PLAN, PHASE DESIGNATION DIAGRAM &
SCHEDULE OF QUANTITIES
144TH STREET & INDIANA AVENUE

* PLANS MODIFIED BY
ROBINSON ENGINEERING, LTD

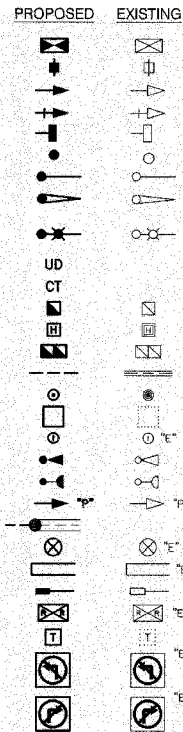
REVISIONS	
NAME	DATE
ADDED EV PREEMPTION	01/02/08
ADDED NEW CONTROLLER	

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

ROBINSON ENGINEERING, LTD.
1700 SOUTH PARK AVENUE, SOUTH HOLLAND, ILLINOIS 60473
(708) 331-8700 FAX (708) 331-3828
ILLINOIS DESIGN FIRM REGISTRATION NO. 18400122

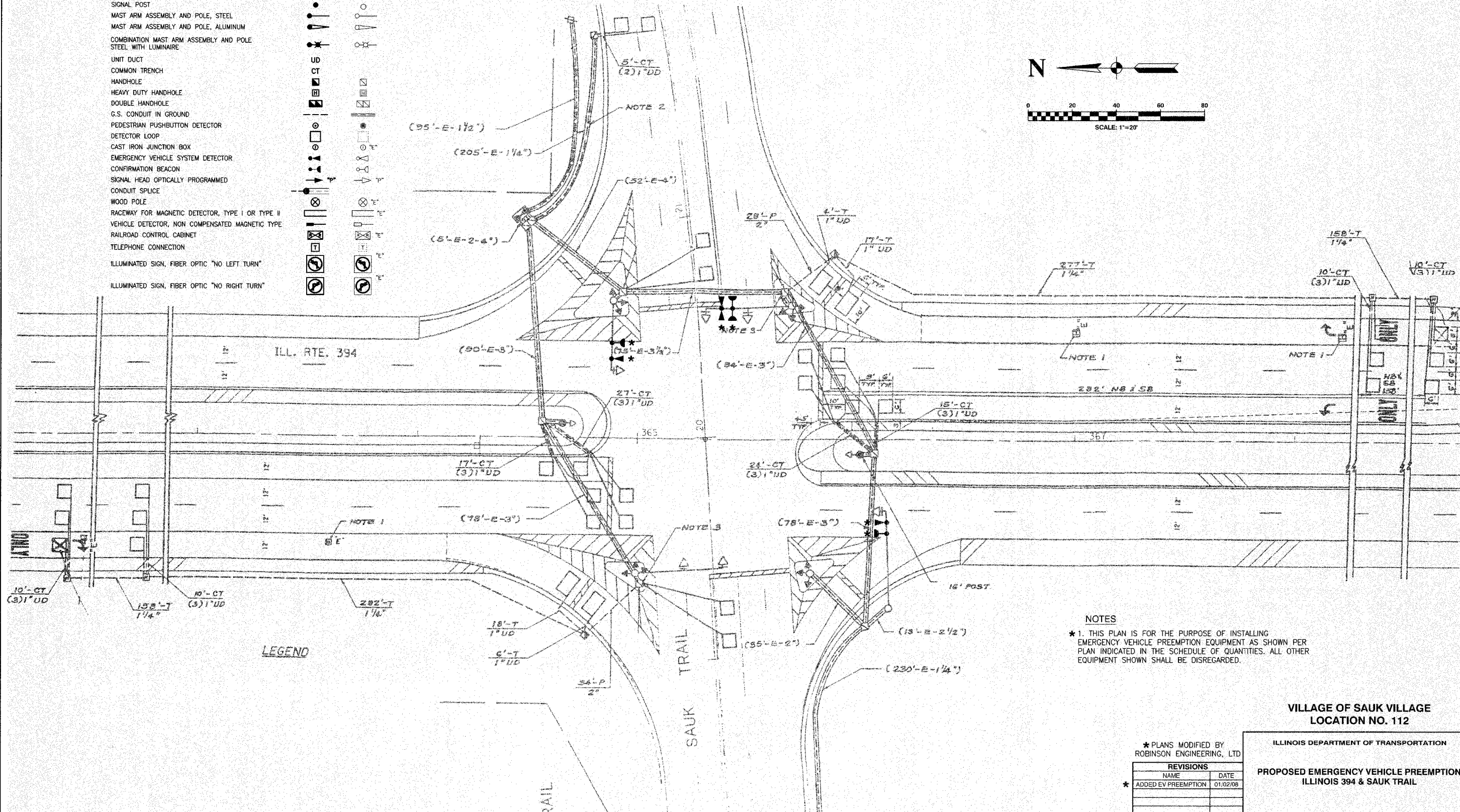
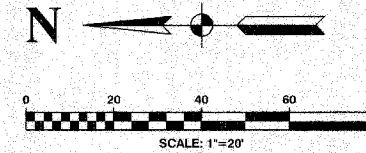
TRAFFIC SIGNAL LEGEND

- 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"



F.A. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00146-00-TL	COOK	273	232
STA.	TO STA.			
FED. ROAD DIST. NO.	ALIGNS	FED. AID PROJECT		

CONTRACT NO. 63003



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.

LEGEND

VILLAGE OF SAUK VILLAGE
 LOCATION NO. 112

* PLANS MODIFIED BY
 ROBINSON ENGINEERING, LTD

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

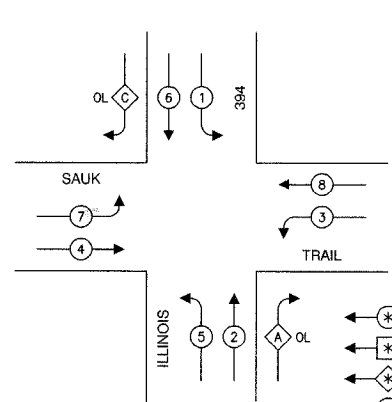
ILLINOIS DEPARTMENT OF TRANSPORTATION
**PROPOSED EMERGENCY VEHICLE PREEMPTION
 ILLINOIS 394 & SAUK TRAIL**

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

F. A. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00146-00-TL	COOK	273	233
STA.	TO STA.			
FED. ROAD DIST. NO.	CLASS	FED. AID PROJECT		

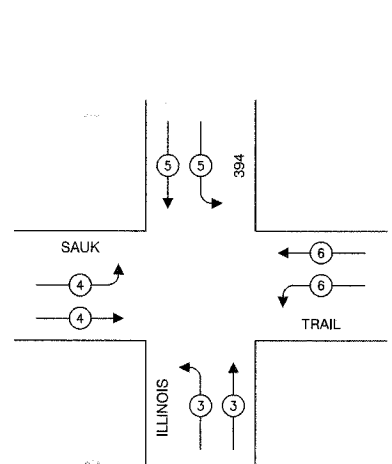
CONTRACT NO. 63003

CONTROLLER SEQUENCE
SINGLE ENTRY - ALL LEGS
PROTECTED ONLY LEFT TURN PHASING - ALL LEGS



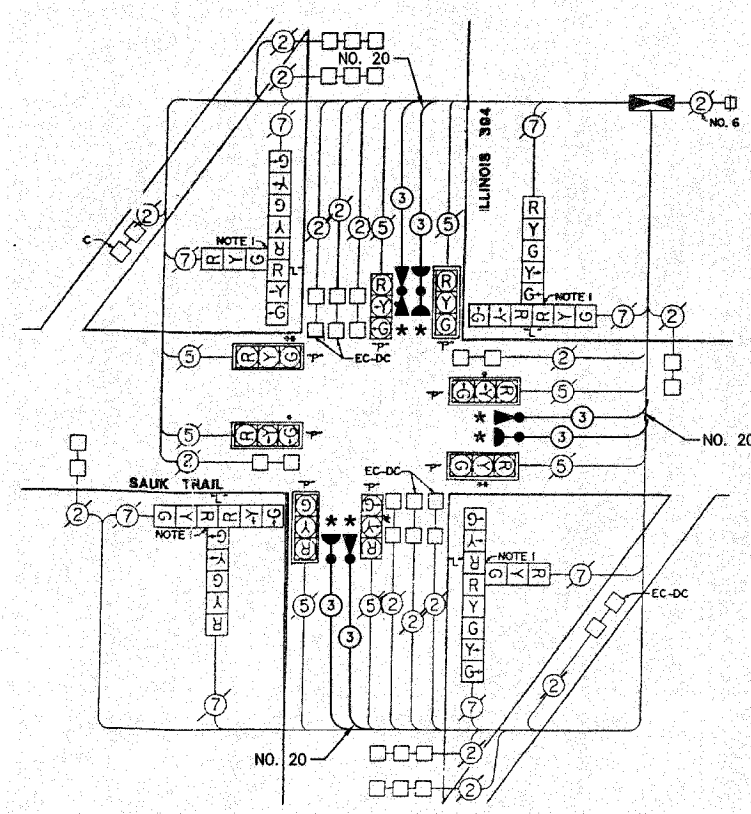
OVERLAP	PERMISSIVE	PROTECTED	DISPLAY
A = 2	+ 3	- 2	
C = 6	+ 7	- 2	

PHASE DESIGNATION DIAGRAM



EMERGENCY VEHICLE PREEMPTION SEQUENCE

PROPOSED EMERGENCY VEHICLE PREEMPTORS				
EMERGENCY VEHICLE PREEMPTOR	3	4	5	6
MOVEMENT	↑	→	↓	←



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	778
LIGHT DETECTOR	EACH	3
LIGHT DETECTOR AMPLIFIER	EACH	1
ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED	FOOT	778

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

VILLAGE OF SAUK VILLAGE
LOCATION NO. 112

* 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
ILLINOIS 394 & SAUK TRAIL

SCALE: VERT. _____
HORIZ. _____

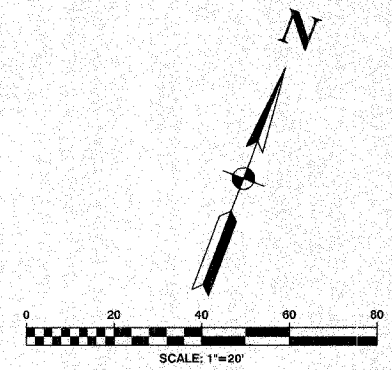
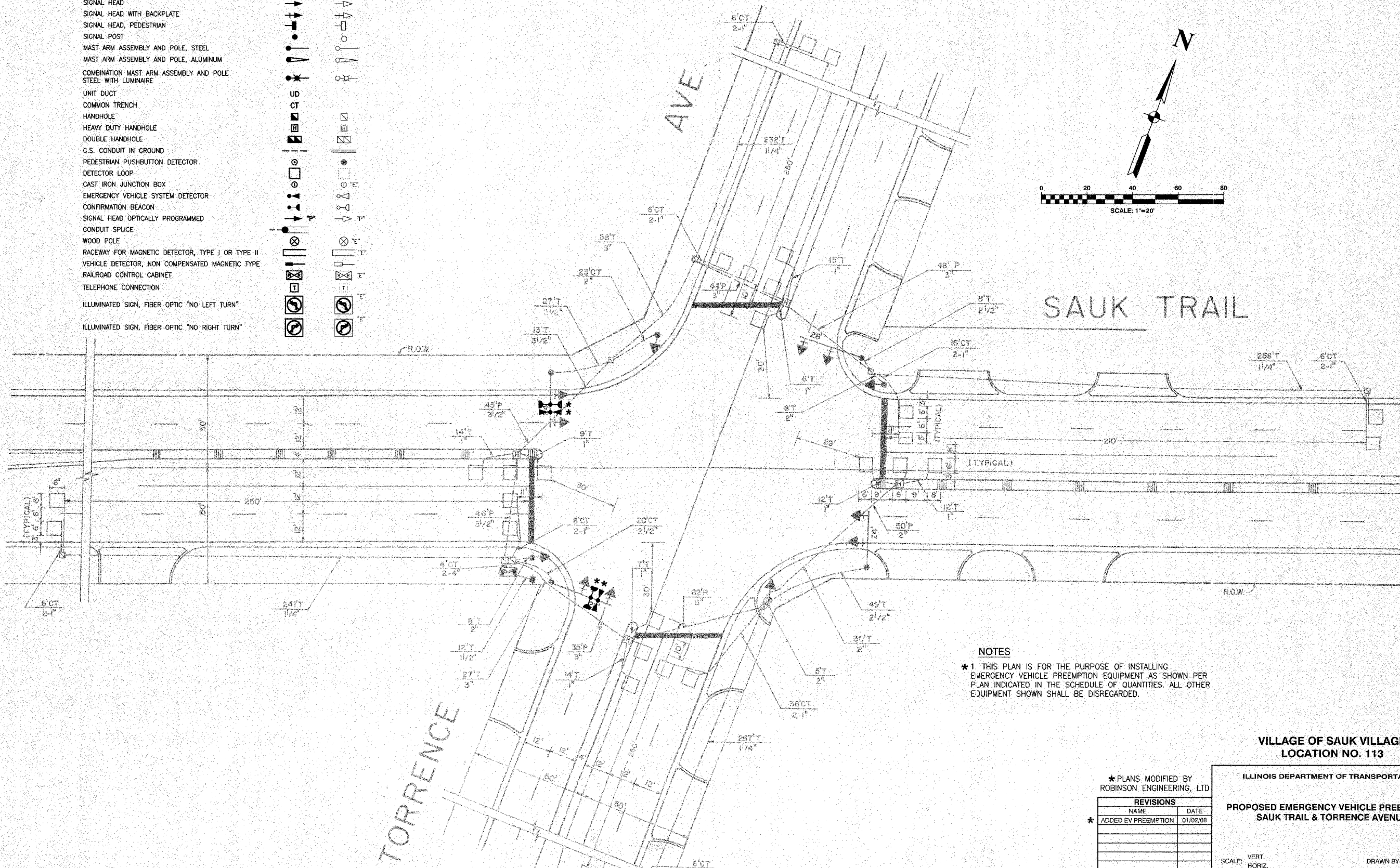
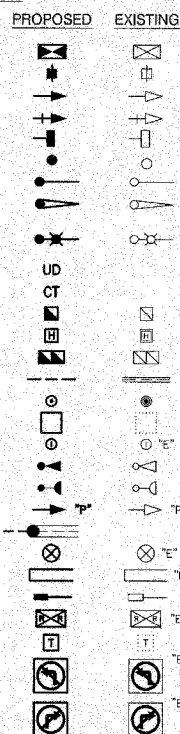
DRAWN BY _____
CHECKED BY _____

F. A. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00146-00-TL	COOK	273	234
STA.	TO STA.			
FED. ROAD DIST. NO.	LANDS	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 SAUK VILLAGE
 LOCATION NO. 113

* PLANS MODIFIED BY
 ROBINSON ENGINEERING, LTD

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

ILLINOIS DEPARTMENT OF TRANSPORTATION
**PROPOSED EMERGENCY VEHICLE PREEMPTION
 SAUK TRAIL & TORRENCE AVENUE**

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

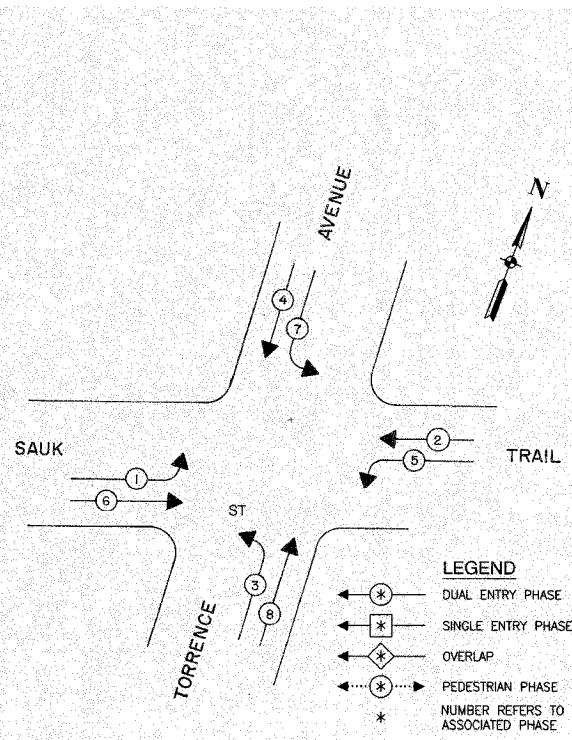
ROBINSON ENGINEERING, LTD.
 1700 SOUTH PARK AVENUE SOUTH HOLLAND, ILLINOIS 60473
 (708) 331-8700 FAX (708) 331-3658
 ILLINOIS DESIGN FIRM REGISTRATION NO. 184001128

F. A. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00146-00-TL	COOK	273	235
STA.	TO STA.			
FED. ROAD DIST. NO.	CLIPPER	FED. AID PROJECT		

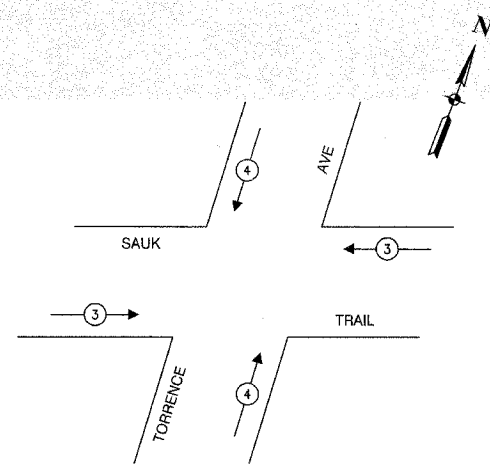
CONTRACT NO. 63003

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

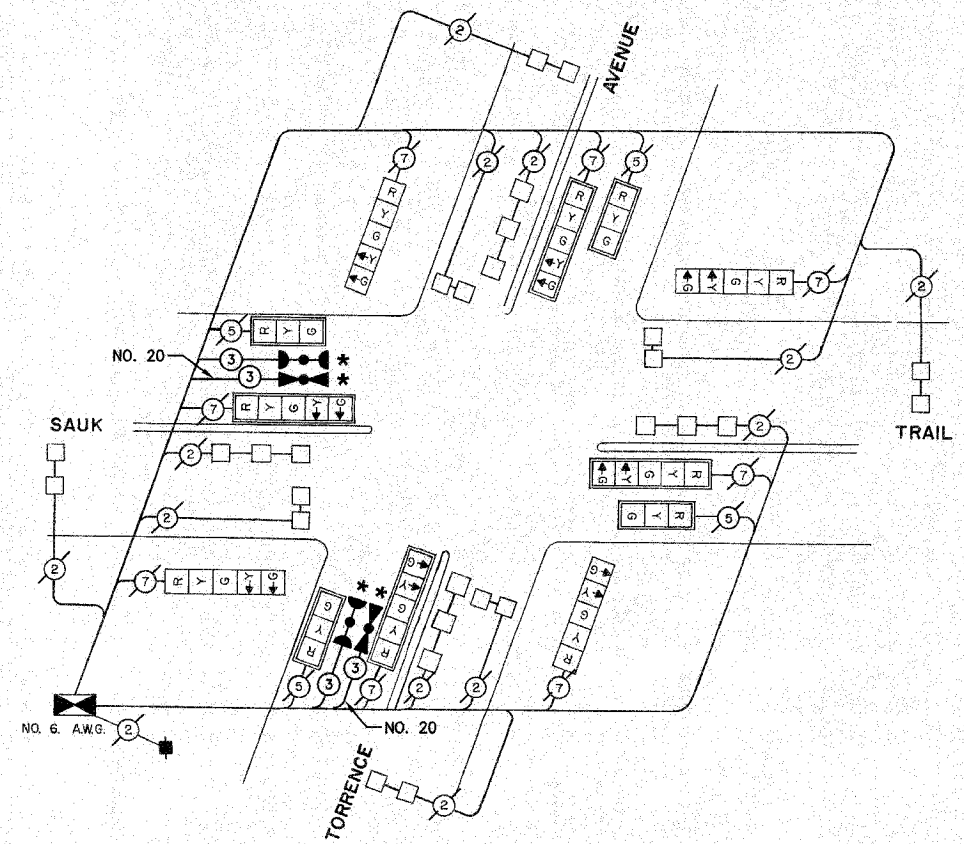


CONTROLLER SEQUENCE REFERRING TO STANDARD 2393, THE VEHICULAR AND PEDESTRIAN PHASES USED ARE DESIGNATED ABOVE.



EMERGENCY VEHICLE PREEMPTION SEQUENCE

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



SCHEDULE OF QUANTITIES		
PAY ITEM	UNIT	QUANTITY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	297
LIGHT DETECTOR	EACH	2
LIGHT DETECTOR AMPLIFIER	EACH	1
ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED	FOOT	297

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 SAUK VILLAGE LOCATION NO. 113

ILLINOIS DEPARTMENT OF TRANSPORTATION

PROPOSED EMERGENCY VEHICLE PREEMPTION CABLE PLAN, PHASE DESIGNATION DIAGRAM & SCHEDULE OF QUANTITIES SAUK TRAIL & TORRENCE AVENUE

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

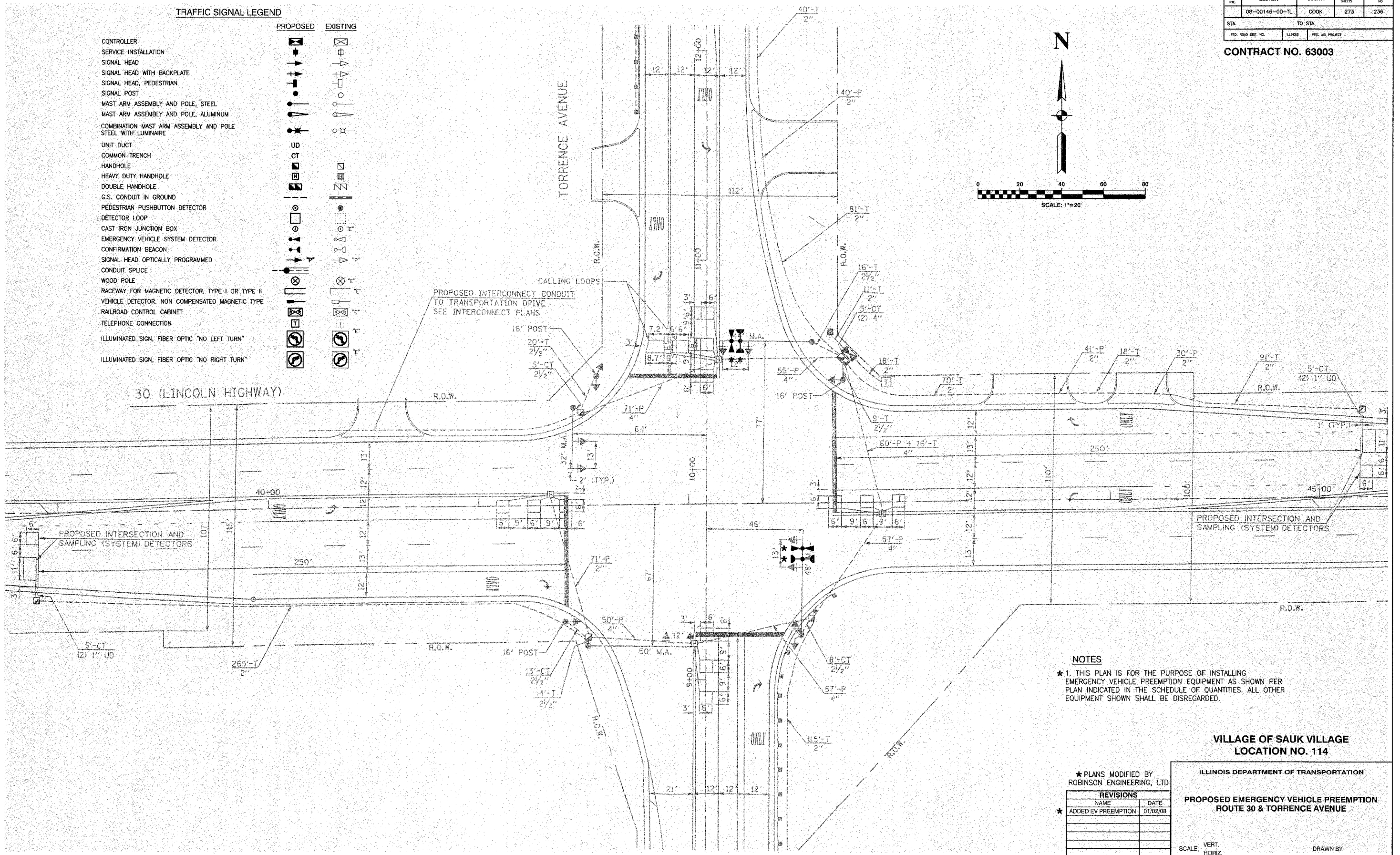
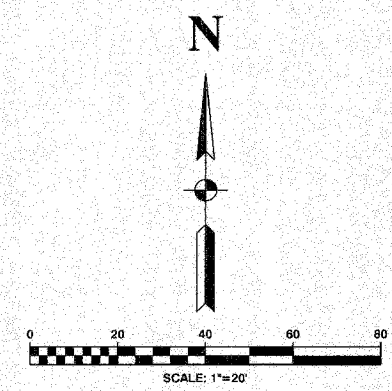
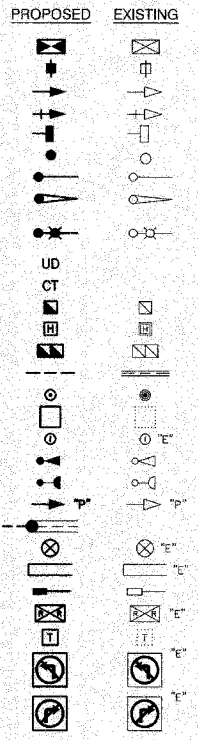
ROBINSON ENGINEERING, LTD.
 17000 SOUTH PARK AVENUE SOUTH HOLLAND, ILLINOIS 60478
 (708) 351-6700 FAX (708) 351-3608
 ILLINOIS DESIGN FIRM REGISTRATION NO. 184011188

F.A. REF.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00148-00-TL	COOK	273	236
STA.		TO STA.		
FED. ROAD DIST. NO.	LINE	FED. AC. 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"



PROPOSED INTERCONNECT CONDUIT TO TRANSPORTATION DRIVE SEE INTERCONNECT PLANS

PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTORS

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 SAUK VILLAGE
LOCATION NO. 114**

ILLINOIS DEPARTMENT OF TRANSPORTATION

**PROPOSED EMERGENCY VEHICLE PREEMPTION
ROUTE 30 & TORRENCE AVENUE**

* PLANS MODIFIED BY
ROBINSON ENGINEERING, LTD

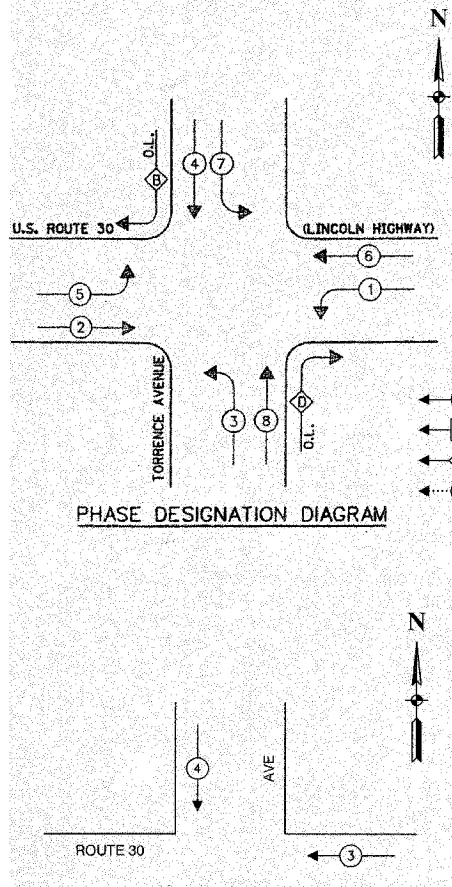
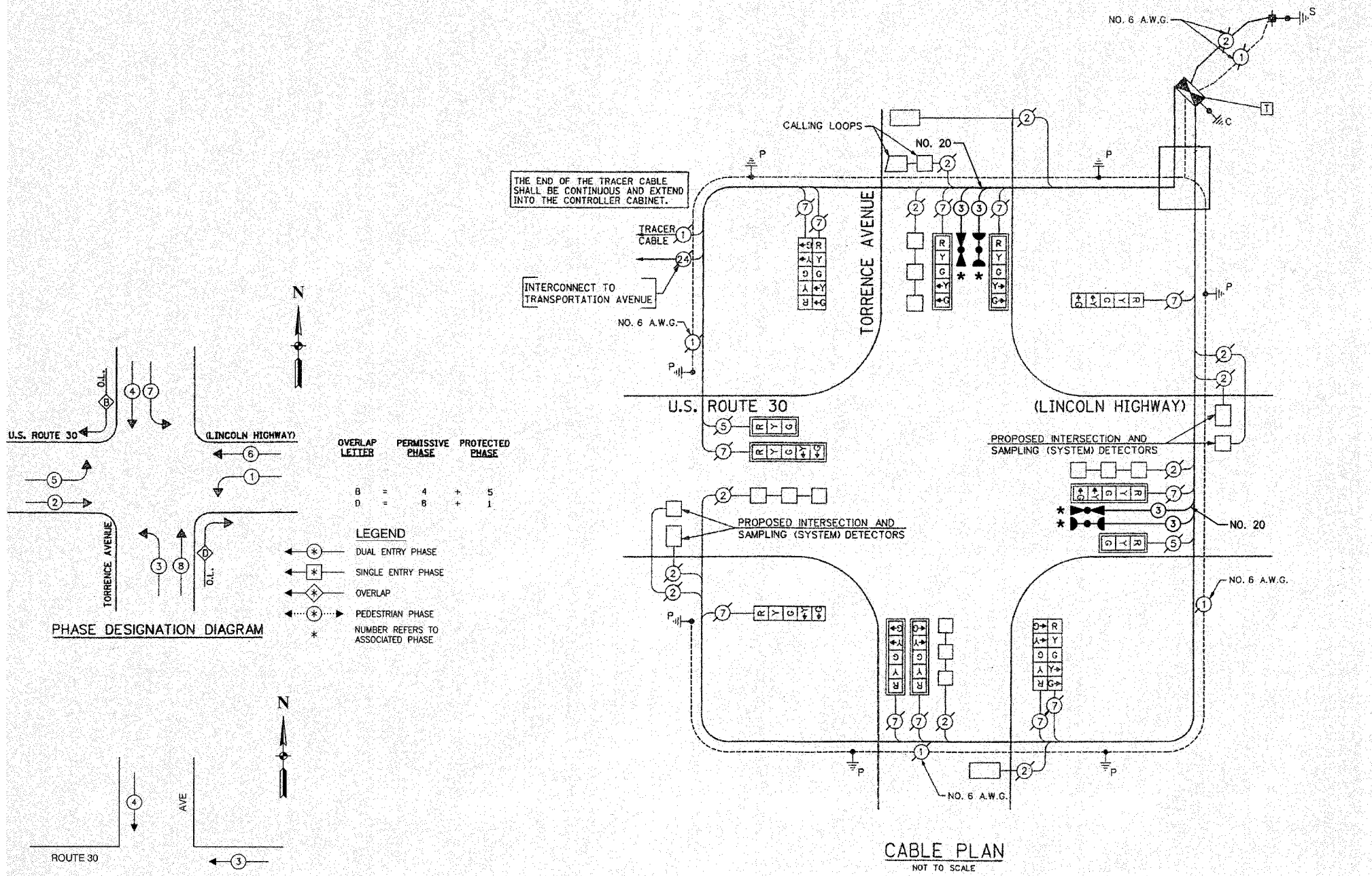
REVISIONS	
NAME	DATE
* ADDED EV PREEMPTION	01/02/08

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

ROBINSON ENGINEERING, LTD.
1700 SOUTH PARK AVENUE, SOUTH BEND, ILLINOIS 60083
(708) 331-4700 FAX (708) 331-3828
ILLINOIS DESIGN FIRM REGISTRATION NO. 184001128

F. A. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00146-00-TL	COOK	273	237
STA.	TO STA.			
FED. ROAD DIST. NO.	SUPPLEMENT	FED. AID PROJECT		

CONTRACT NO. 63003

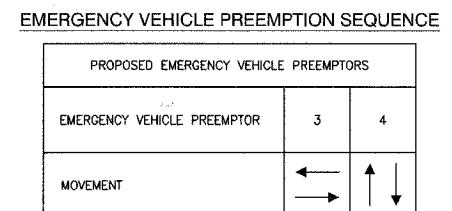


OVERLAP LETTER PERMISSIVE PHASE PROTECTED PHASE

B = 4 + 5
D = 8 + 1

LEGEND

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



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	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	331
LIGHT DETECTOR	EACH	2
LIGHT DETECTOR AMPLIFIER	EACH	1
ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED	FOOT	331

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 SAUK VILLAGE
LOCATION NO. 114

ILLINOIS DEPARTMENT OF TRANSPORTATION

PROPOSED EMERGENCY VEHICLE PREEMPTION CABLE PLAN, PHASE DESIGNATION DIAGRAM & SCHEDULE OF QUANTITIES
ROUTE 30 & TORRENCE AVENUE

SCALE: VERT. _____
HORIZ. _____

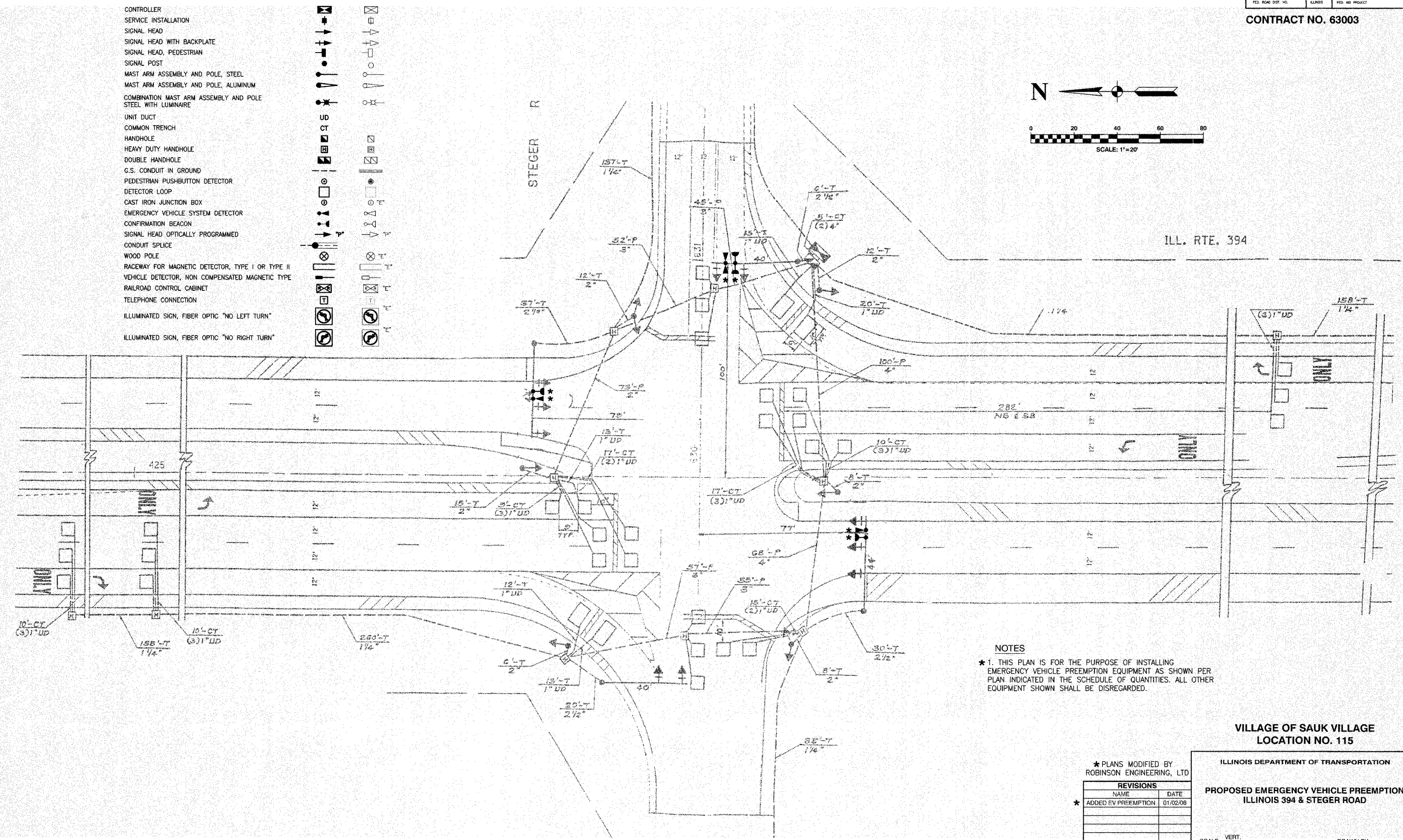
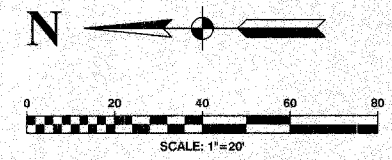
DATE _____ DRAWN BY _____
CHECKED BY _____

F. A. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00146-00-TL	COOK	273	238
STA.		TO STA.		
FED. ROAD DIST. NO.	LANDS	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 SAUK VILLAGE
 LOCATION NO. 115

* PLANS MODIFIED BY
 ROBINSON ENGINEERING, LTD

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

ILLINOIS DEPARTMENT OF TRANSPORTATION
**PROPOSED EMERGENCY VEHICLE PREEMPTION
 ILLINOIS 394 & STEGER ROAD**

SCALE: VERT. _____
 HORIZ. _____

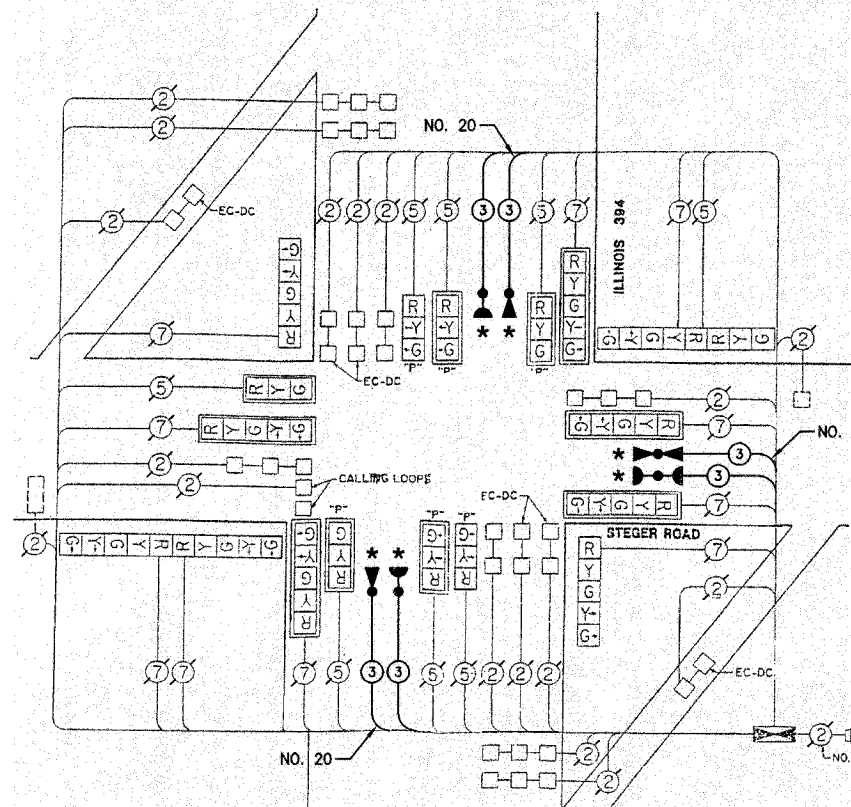
DATE _____ DRAWN BY _____
 CHECKED BY _____

F. A. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00146-00-TL	COOK	273	239
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 63003

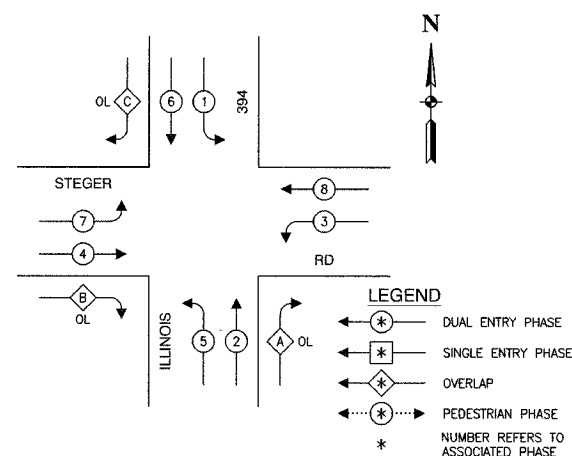
CABLE PLAN LEGEND

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



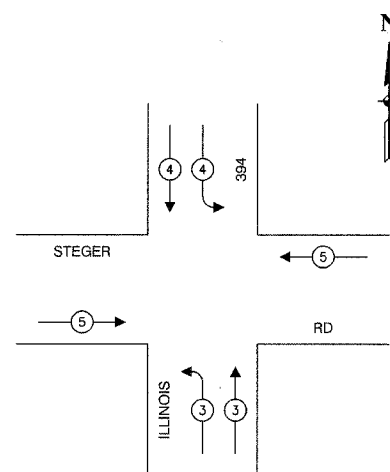
CONTROLLER SEQUENCE

SINGLE ENTRY - NORTH AND SOUTH LEGS ONLY - PROTECTED ONLY LEFT TURN PHASING
 DUAL ENTRY - EAST AND WEST LEGS ONLY - PROTECTED/PERMITTED LEFT TURN PHASING



PHASE DESIGNATION DIAGRAM

OVERLAP	PERMISSIVE	PROTECTED	DISPLAY
A =	2	+	3 - 2
B =	4	+	5 - 4
C =	6	+	7 - 6



EMERGENCY VEHICLE PREEMPTION SEQUENCE

PROPOSED EMERGENCY VEHICLE PREEMPTORS			
EMERGENCY VEHICLE PREEMPTOR	3	4	5
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	820
LIGHT DETECTOR	EACH	3
LIGHT DETECTOR AMPLIFIER	EACH	1
ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED	FOOT	620

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 SAUK VILLAGE
 LOCATION NO. 115

PROPOSED EMERGENCY VEHICLE PREEMPTION CABLE PLAN, PHASE DESIGNATION DIAGRAM & SCHEDULE OF QUANTITIES
 ILLINOIS 394 & STEGER ROAD

SCALE: VERT. _____
 HORIZ. _____

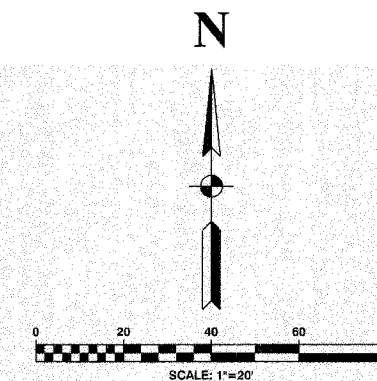
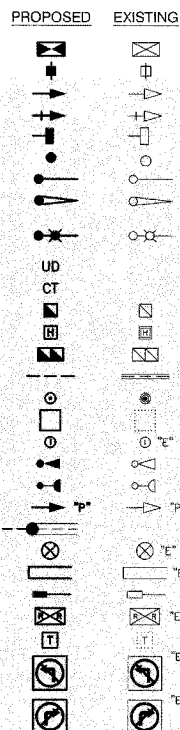
DRAWN BY _____
 CHECKED BY _____

F.A. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00146-00-TL	COOK	273	240
STA.		TO STA.		
FED. ROAD DIST. NO.	BLKNO.	FED. AID PROJECT		

CONTRACT NO. 63003

TRAFFIC SIGNAL LEGEND

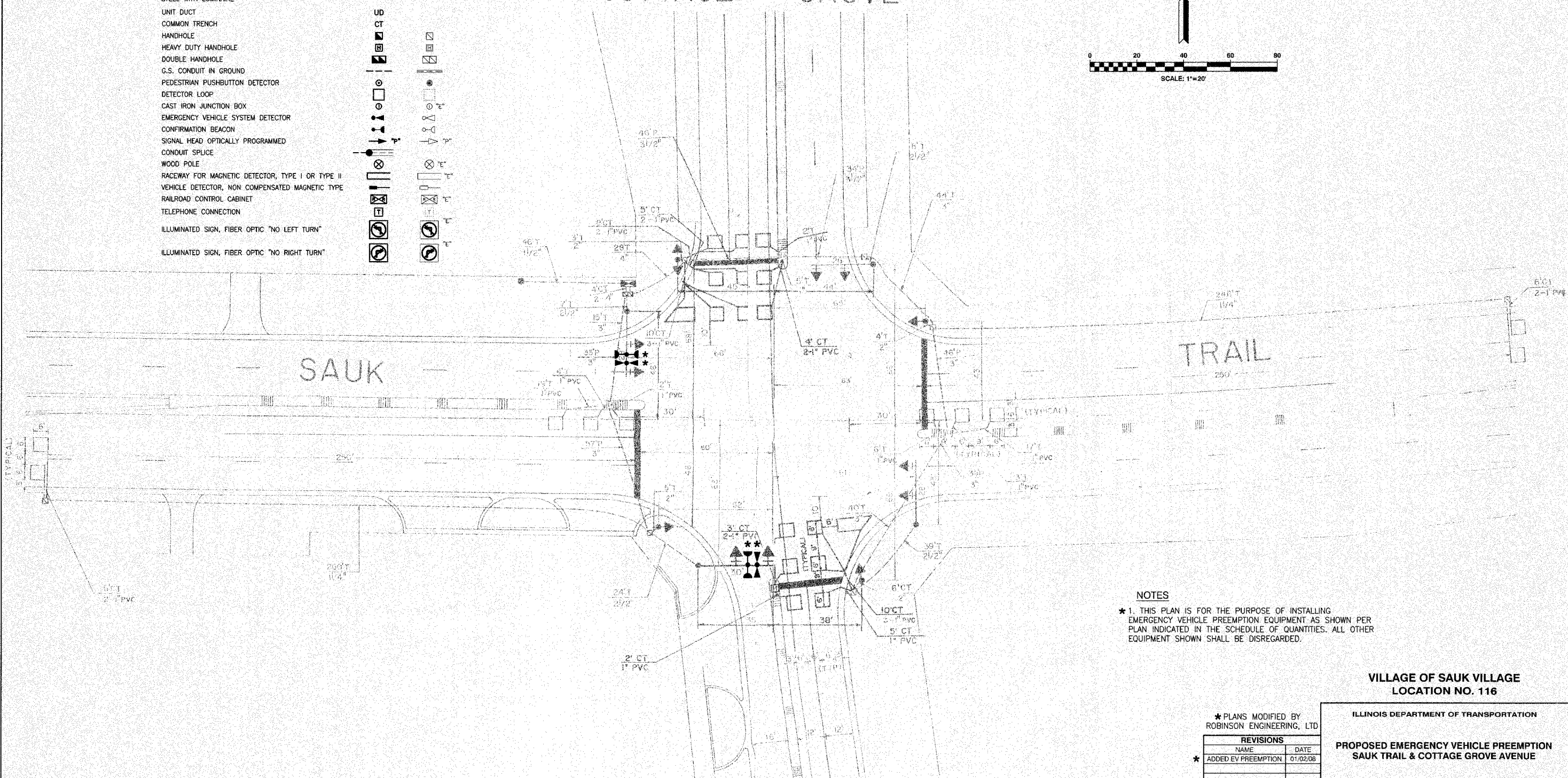
- CONTROLLER
- SERVICE INSTALLATION
- SIGNAL HEAD
- SIGNAL HEAD WITH BACKPLATE
- SIGNAL HEAD, PEDESTRIAN
- SIGNAL POST
- MAST ARM ASSEMBLY AND POLE, STEEL
- MAST ARM ASSEMBLY AND POLE, ALUMINUM
- COMBINATION MAST ARM ASSEMBLY AND POLE STEEL WITH LUMINAIRE
- UNIT DUCT
- COMMON TRENCH
- HANDHOLE
- HEAVY 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"



COTTAGE GROVE

SAUK

TRAIL



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 SAUK VILLAGE
LOCATION NO. 116

* PLANS MODIFIED BY
ROBINSON ENGINEERING, LTD

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

ILLINOIS DEPARTMENT OF TRANSPORTATION
**PROPOSED EMERGENCY VEHICLE PREEMPTION
SAUK TRAIL & COTTAGE GROVE AVENUE**

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

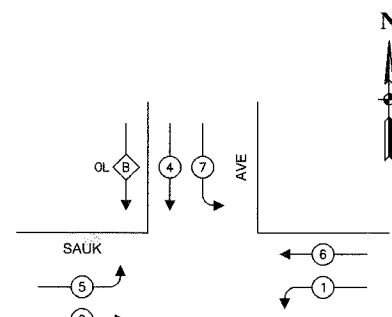
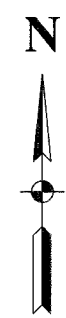
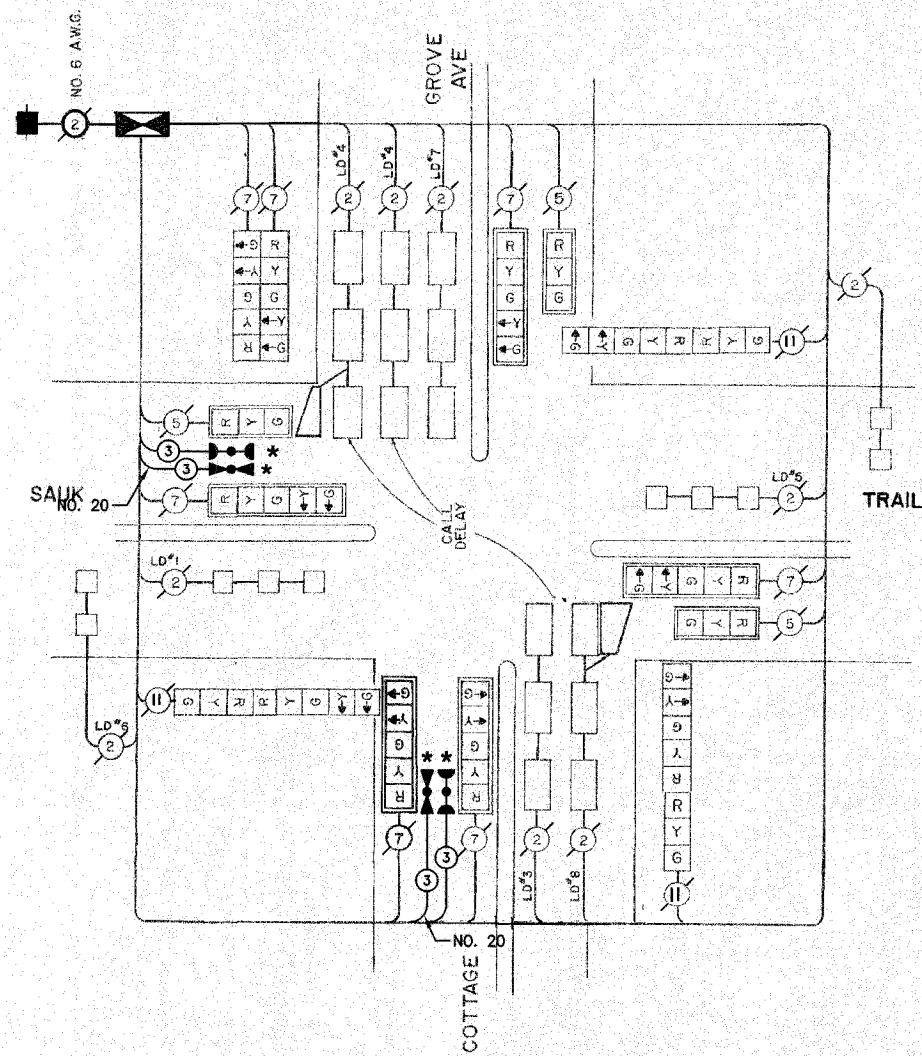
ROBINSON ENGINEERING, LTD.
17406 SOUTH PARK AVENUE SOUTH HOLLAND, ILLINOIS 60473
(708) 351-8700 FAX (708) 351-8888
ILLINOIS DESIGN FIRM REGISTRATION NO. 184091128

F.A. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00146-00-TL	COOK	273	241
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 63003

CABLE PLAN LEGEND

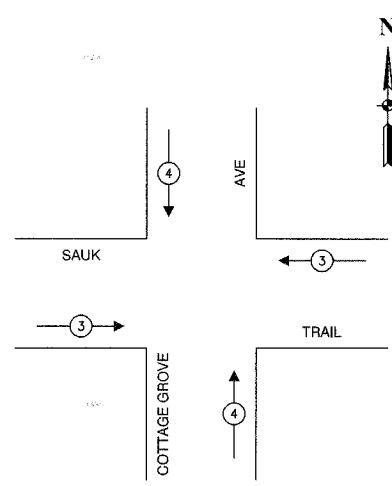
- | | | |
|-----------------|-----------------|---|
| EXISTING | PROPOSED | |
| | | 8" TRAFFIC SIGNAL SECTION |
| | | 12" TRAFFIC SIGNAL SECTION |
| | | 12" PEDESTRIAN SIGNAL SECTION |
| | | CONTROLLER CABINET |
| | | SERVICE INSTALLATION |
| | | TELEPHONE CONNECTION |
| | | MAGNETIC DETECTOR |
| | | 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 |



$$\frac{\text{OVERLAP}}{B} = \frac{\text{PERMISSIVE}}{4} + \frac{\text{PROTECTED}}{5} - \frac{\text{DISPLAY}}{4}$$

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

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	290
LIGHT DETECTOR	EACH	2
LIGHT DETECTOR AMPLIFIER	EACH	1
ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED	FOOT	290

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 SAUK VILLAGE
 LOCATION NO. 116

ILLINOIS DEPARTMENT OF TRANSPORTATION

PROPOSED EMERGENCY VEHICLE PREEMPTION CABLE PLAN, PHASE DESIGNATION DIAGRAM & SCHEDULE OF QUANTITIES
 SAUK TRAIL & COTTAGE GROVE AVENUE

* PLANS MODIFIED BY ROBINSON ENGINEERING, LTD

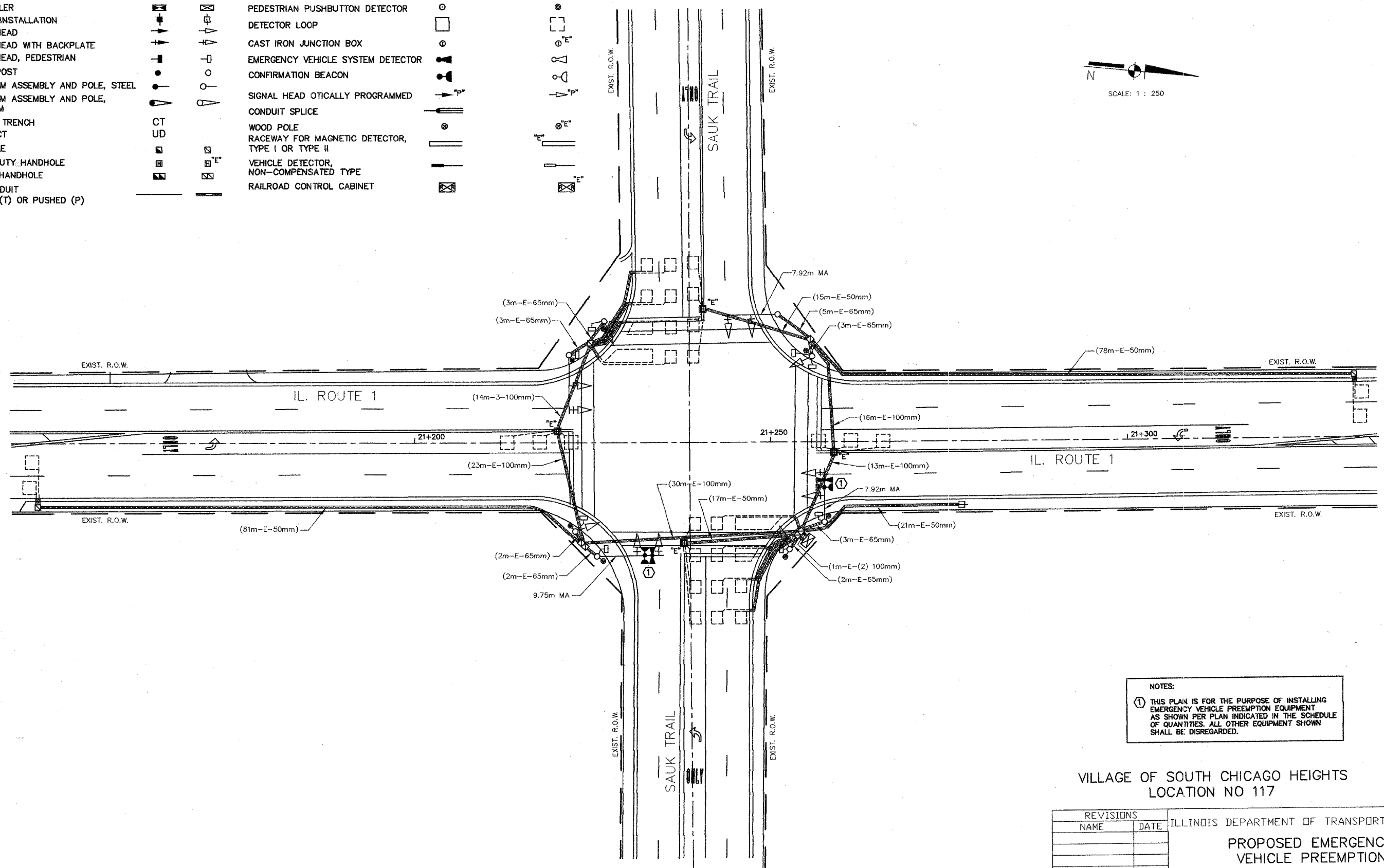
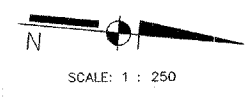
REVISIONS	
NAME	DATE
ADDED EV PREEMPTION	01/02/08

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-000146-00-TL		273	242
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

SIGNAL PLAN LEGEND

PROPOSED	EXISTING	PROPOSED	EXISTING
CONTROLLER		PEDESTRIAN PUSHBUTTON DETECTOR	
SERVICE INSTALLATION		DETECTOR LOOP	
SIGNAL HEAD		CAST IRON JUNCTION BOX	
SIGNAL HEAD WITH BACKPLATE		EMERGENCY VEHICLE SYSTEM DETECTOR	
SIGNAL HEAD, PEDESTRIAN		CONFIRMATION BEACON	
SIGNAL POST		SIGNAL HEAD OPTICALLY PROGRAMMED	
MAST ARM ASSEMBLY AND POLE, STEEL		CONDUIT SPLICE	
MAST ARM ASSEMBLY AND POLE, ALUMINUM		WOOD POLE	
COMMON TRENCH	CT	RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II	
UNIT DUCT	UD	VEHICLE DETECTOR, NON-COMPENSATED TYPE	
HANDHOLE		RAILROAD CONTROL CABINET	
HEAVY DUTY HANDHOLE			
DOUBLE HANDHOLE			
G.S. CONDUIT TRENCH (T) OR PUSHED (P)			



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.

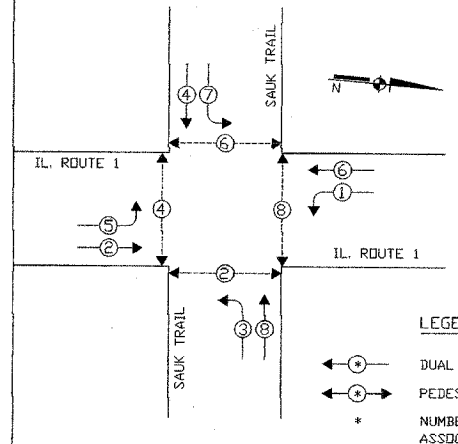
VILLAGE OF SOUTH CHICAGO HEIGHTS
 LOCATION NO 117

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		<p>PROPOSED EMERGENCY VEHICLE PREEMPTION IL. ROUTE 1 AND SAUK TRAIL</p> <p>SCALE: 1 : 250 DATE: 1/02/08</p> <p>DRAWN BY: MJD CHECKED BY: MJD</p>

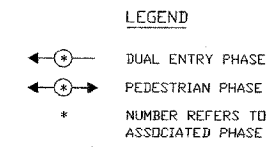
MODIFIED BY JOSEPH SCHUDT and ASSOCIATES

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-000146-00-TL		273	243
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS/FED. AID PROJECT			

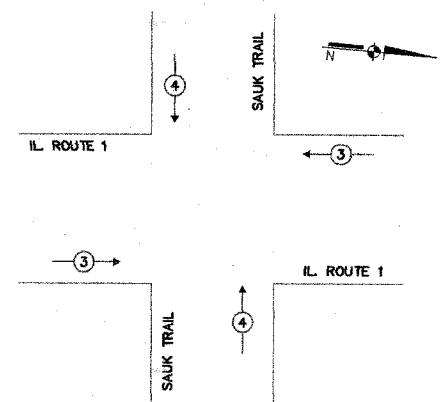
EXISTING CONTROLLER SEQUENCE



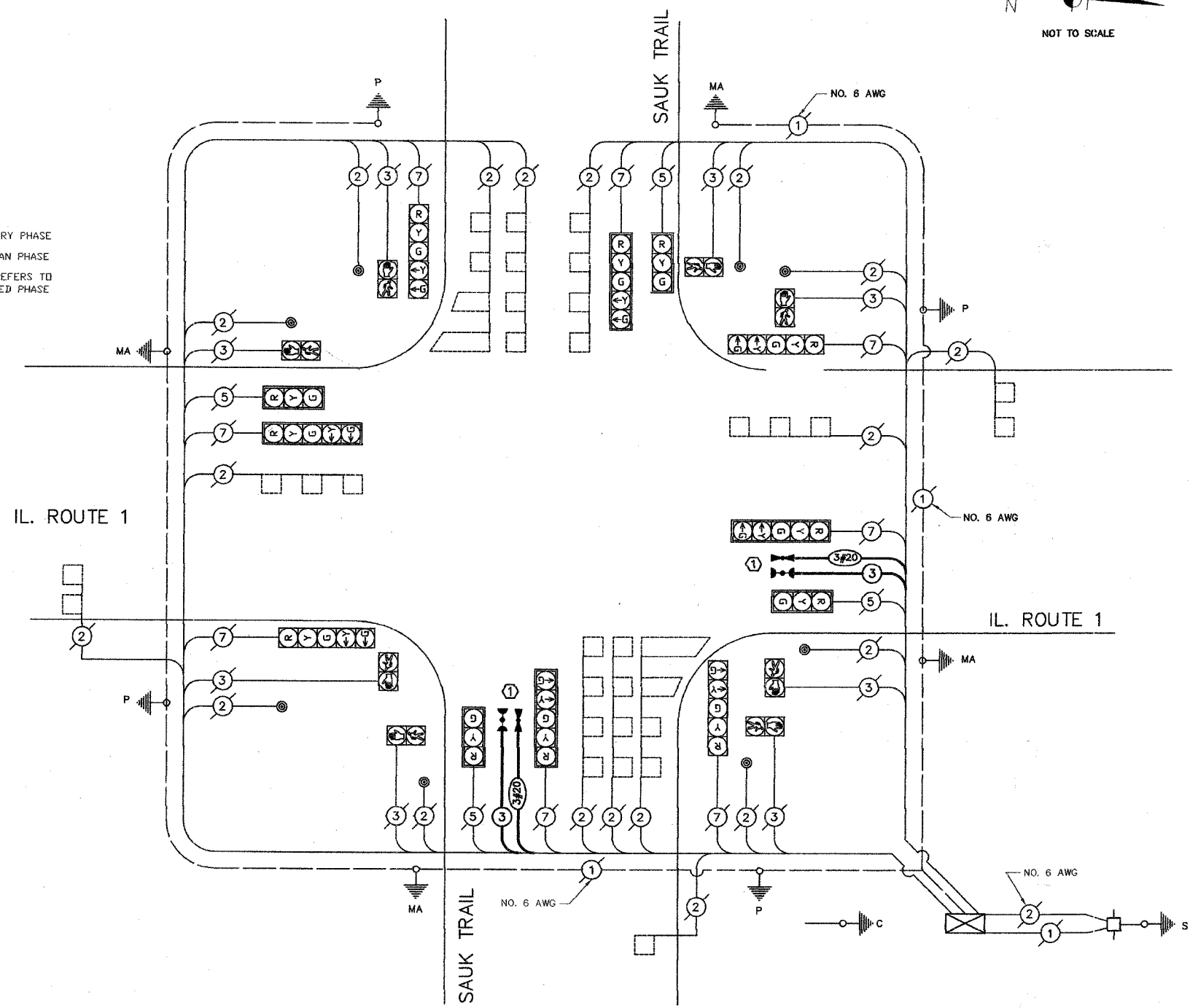
PHASE DESIGNATION DIAGRAM



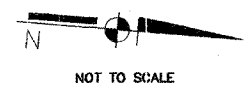
EMERGENCY VEHICLE PREEMPTION SEQUENCE



PROPOSED EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTORS	3	4
MOVEMENT	↔	↕



CABLE PLAN



CABLE PLAN LEGEND

- | EXISTING | PROPOSED | |
|----------|----------|---|
| | | 8' TRAFFIC SIGNAL SECTION |
| | | 12' TRAFFIC SIGNAL SECTION |
| | | 12' PEDESTRIAN SIGNAL SECTION |
| | | CONTROLLER CABINET |
| | | SERVICE INSTALLATION |
| | | TELEPHONE INSTALLATION |
| | | VEHICLE DETECTOR, INDUCTION LOOP |
| | | MAGNETIC DETECTOR |
| | | EMERGENCY VEHICLE LIGHT DETECTOR |
| | | CONFIRMATION BEACON |
| | | PUSHBUTTON DETECTOR |
| | | DENITES 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 (H), |
| | | DOUBLE HANDHOLE (HD), |
| | | OR CONTROLLER (C) |
| | | GROUND ROD AT POST |
| | | OR MAST ARM POLE |
| | | GROUND ROD AT ELECTRIC |
| | | SERVICE INSTALLATION |
| | | GROUND CABLE IN CONDUIT |
| | | NO. 6 SOLID COPPER (GREEN) |
| | | FIBER OPTIC CABLE IN CONDUIT |
| | | NO. 62.5/125 2-MM12F & SM12F |

SCHEDULE OF QUANTITIES

Pay Item	Unit	Quantity
Maintenance of Existing Traffic Signal Installation	Each	1
Electric Cable in Conduit, Signal No. 14, 3c	Meter	83.4
Light Detector	Each	4
Light Detector Amplifier	Each	1
Electric Cable in Conduit, No. 20 3c Twisted Shielded	Meter	83.4
Traffic Control and Protection Standard 701701	Each	1

NOTES:
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MODIFIED BY JOSEPH SCHUDT and ASSOCIATES

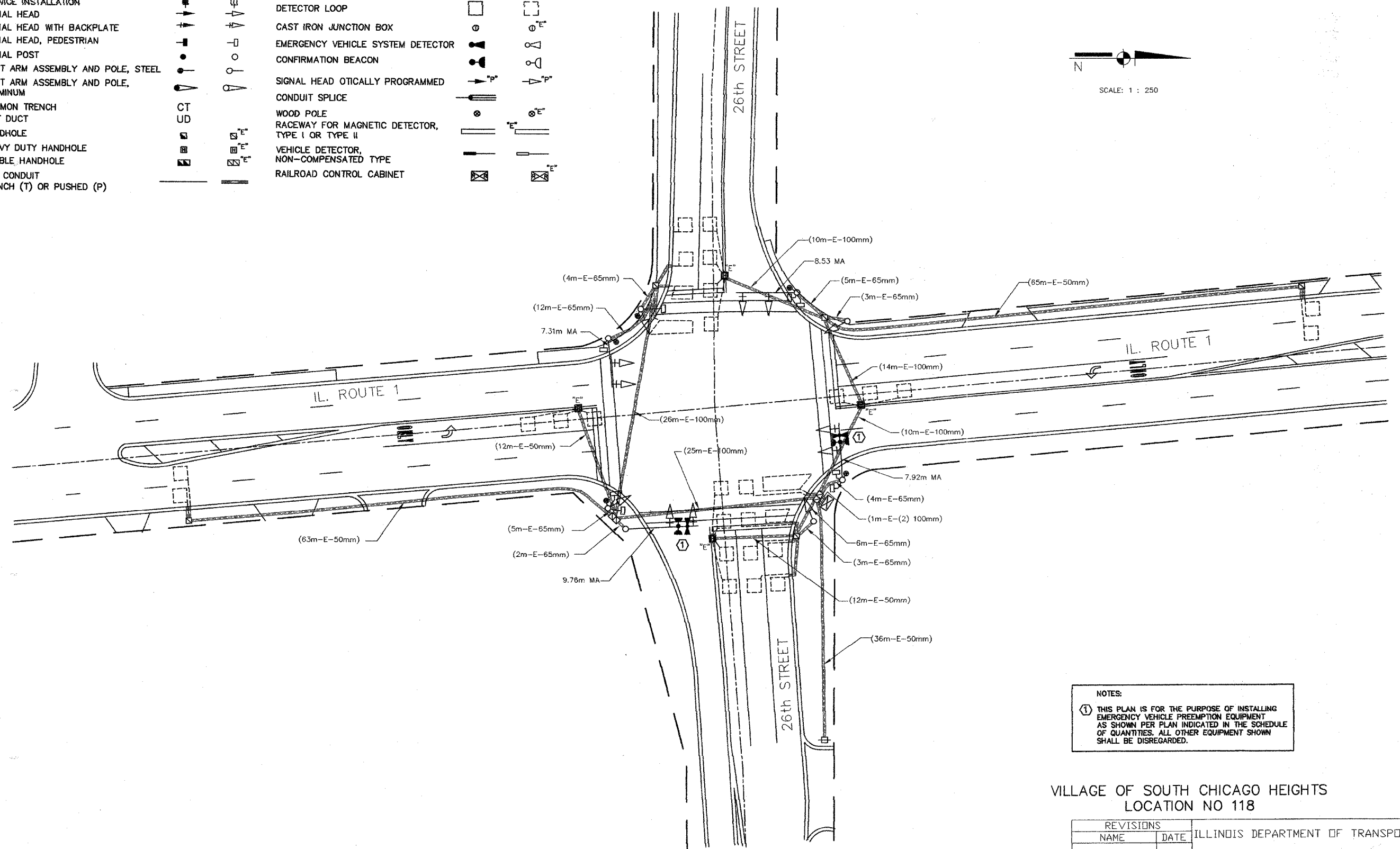
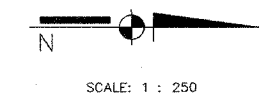
REVISIONS	
NAME	DATE

VILLAGE OF SOUTH CHICAGO HEIGHTS
 LOCATION NO 117
 ILLINOIS DEPARTMENT OF TRANSPORTATION
 EMERGENCY VEHICLE PREEMPTION
 CABLE PLAN
 CONTROLLER SEQUENCE
 SCHEDULE OF QUANTITIES
 IL. ROUTE 1 AND SAUK TRAIL
 SCALE: N.T.S.
 DATE: 1/02/08
 DRAWN BY: MJD
 CHECKED BY: MJD

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-000146-00-TL		273	244
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SIGNAL PLAN LEGEND

PROPOSED	EXISTING	PROPOSED	EXISTING
CONTROLLER	[Symbol]	PEDESTRIAN PUSHBUTTON DETECTOR	[Symbol]
SERVICE INSTALLATION	[Symbol]	DETECTOR LOOP	[Symbol]
SIGNAL HEAD	[Symbol]	CAST IRON JUNCTION BOX	[Symbol]
SIGNAL HEAD WITH BACKPLATE	[Symbol]	EMERGENCY VEHICLE SYSTEM DETECTOR	[Symbol]
SIGNAL HEAD, PEDESTRIAN	[Symbol]	CONFIRMATION BEACON	[Symbol]
SIGNAL POST	[Symbol]	SIGNAL HEAD OPTICALLY PROGRAMMED	[Symbol]
MAST ARM ASSEMBLY AND POLE, STEEL	[Symbol]	CONDUIT SPLICE	[Symbol]
MAST ARM ASSEMBLY AND POLE, ALUMINUM	[Symbol]	WOOD POLE	[Symbol]
COMMON TRENCH	[Symbol]	RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II	[Symbol]
UNIT DUCT	[Symbol]	VEHICLE DETECTOR, NON-COMPENSATED TYPE	[Symbol]
HANDHOLE	[Symbol]	RAILROAD CONTROL CABINET	[Symbol]
HEAVY DUTY HANDHOLE	[Symbol]		
DOUBLE HANDHOLE	[Symbol]		
G.S. CONDUIT	[Symbol]		
TRENCH (T) OR PUSHED (P)	[Symbol]		



NOTES:
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VILLAGE OF SOUTH CHICAGO HEIGHTS
 LOCATION NO 118

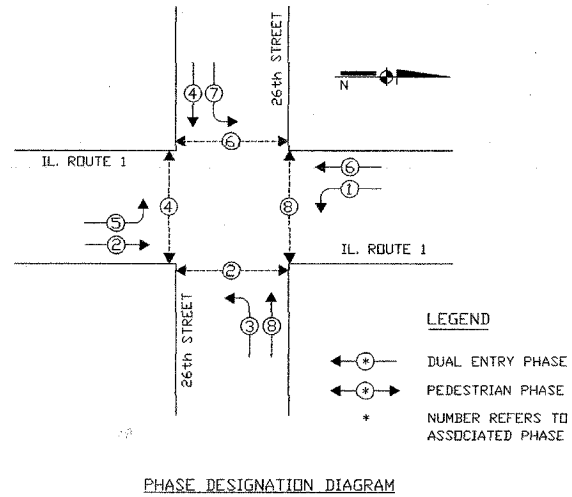
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
PROPOSED EMERGENCY VEHICLE PREEMPTION
 IL. ROUTE 1 AND 26th STREET
 SCALE: 1 : 250
 DATE: 1/02/08
 DRAWN BY: MJD
 CHECKED BY: MJD

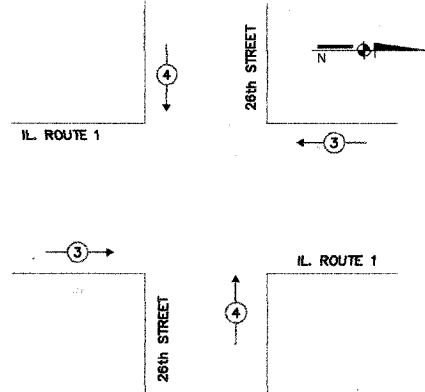
MODIFIED BY JOSEPH SCHUDT and ASSOCIATES

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

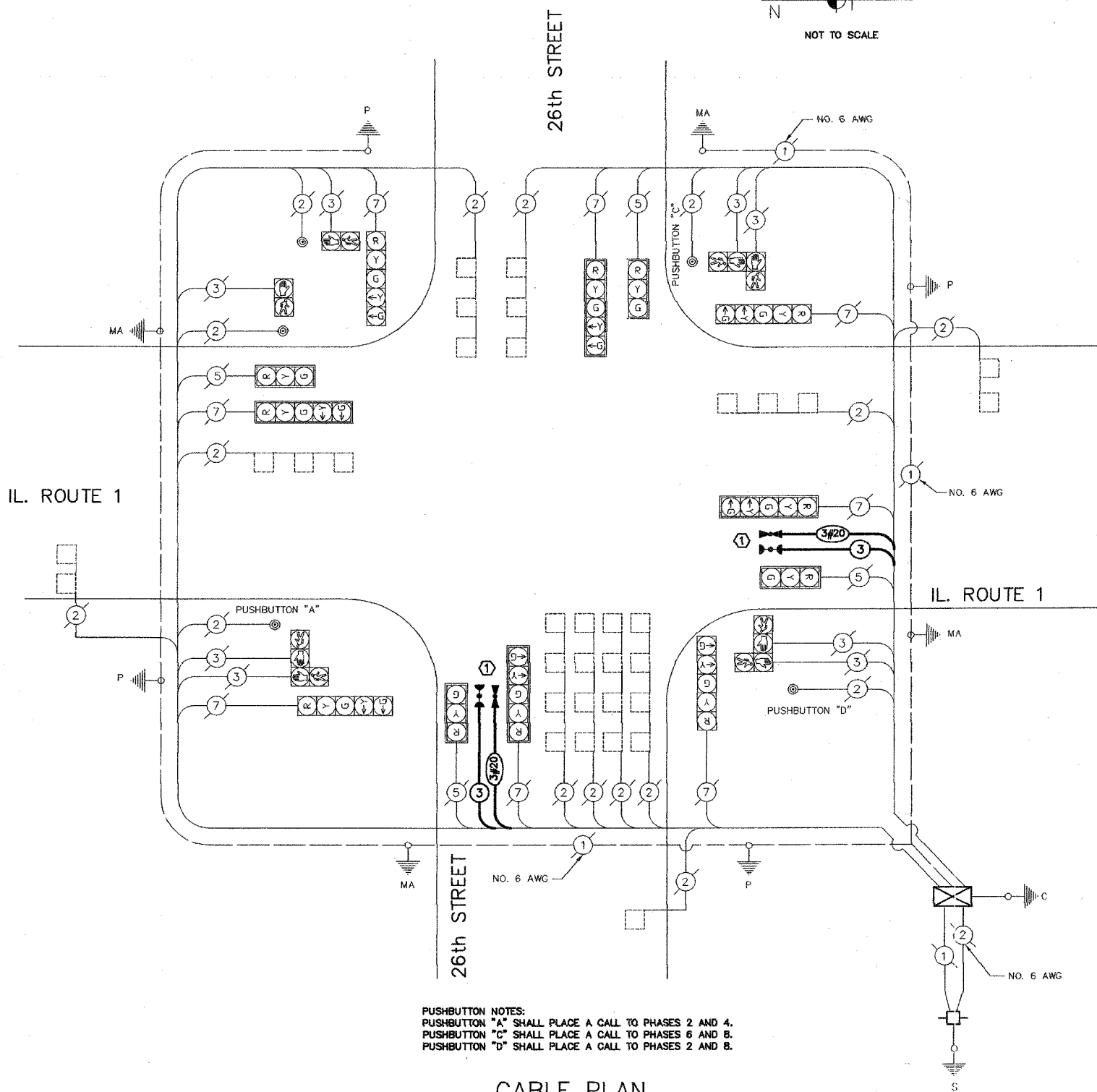
EXISTING CONTROLLER SEQUENCE



EMERGENCY VEHICLE PREEMPTION SEQUENCE



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



PUSHBUTTON NOTES:
 PUSHBUTTON "A" SHALL PLACE A CALL TO PHASES 2 AND 4.
 PUSHBUTTON "C" SHALL PLACE A CALL TO PHASES 6 AND 8.
 PUSHBUTTON "D" SHALL PLACE A CALL TO PHASES 2 AND 8.

CABLE PLAN

MODIFIED BY JOSEPH SCHUDT and ASSOCIATES

NOTES:
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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 INSTALLATION |
| | | VEHICLE DETECTOR, INDUCTION LOOP |
| | | MAGNETIC DETECTOR |
| | | EMERGENCY VEHICLE LIGHT DETECTOR |
| | | CONFIRMATION BEACON |
| | | PUSHBUTTON DETECTOR |
| | | 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 GROUND ROD AT HANDHOLE (H),
DOUBLE HANDHOLE (HH),
OR CONTROLLER (C) |
| | | P GROUND ROD AT POST
OR MAST ARM POLE |
| | | S GROUND ROD AT ELECTRIC
SERVICE INSTALLATION |
| | | ① GROUND CABLE IN CONDUIT
NO. 6 SOLID COPPER (GREEN) |
| | | ② FIBER OPTIC CABLE IN CONDUIT
NO. 62.5/125 2-MM12F & SM12F |

SCHEDULE OF QUANTITIES

Pay Item	Unit	Quantity
Maintenance of Existing Traffic Signal Installation	Each	1
Electric Cable in Conduit, Signal No. 14, 3c	Meter	77.7
Light Detector	Each	4
Light Detector Amplifier	Each	1
Electric Cable in Conduit, No. 20 3c Twisted Shielded	Meter	77.7
Traffic Control and Protection Standard 701701	Each	1

VILLAGE OF SOUTH CHICAGO HEIGHTS
 LOCATION NO 118

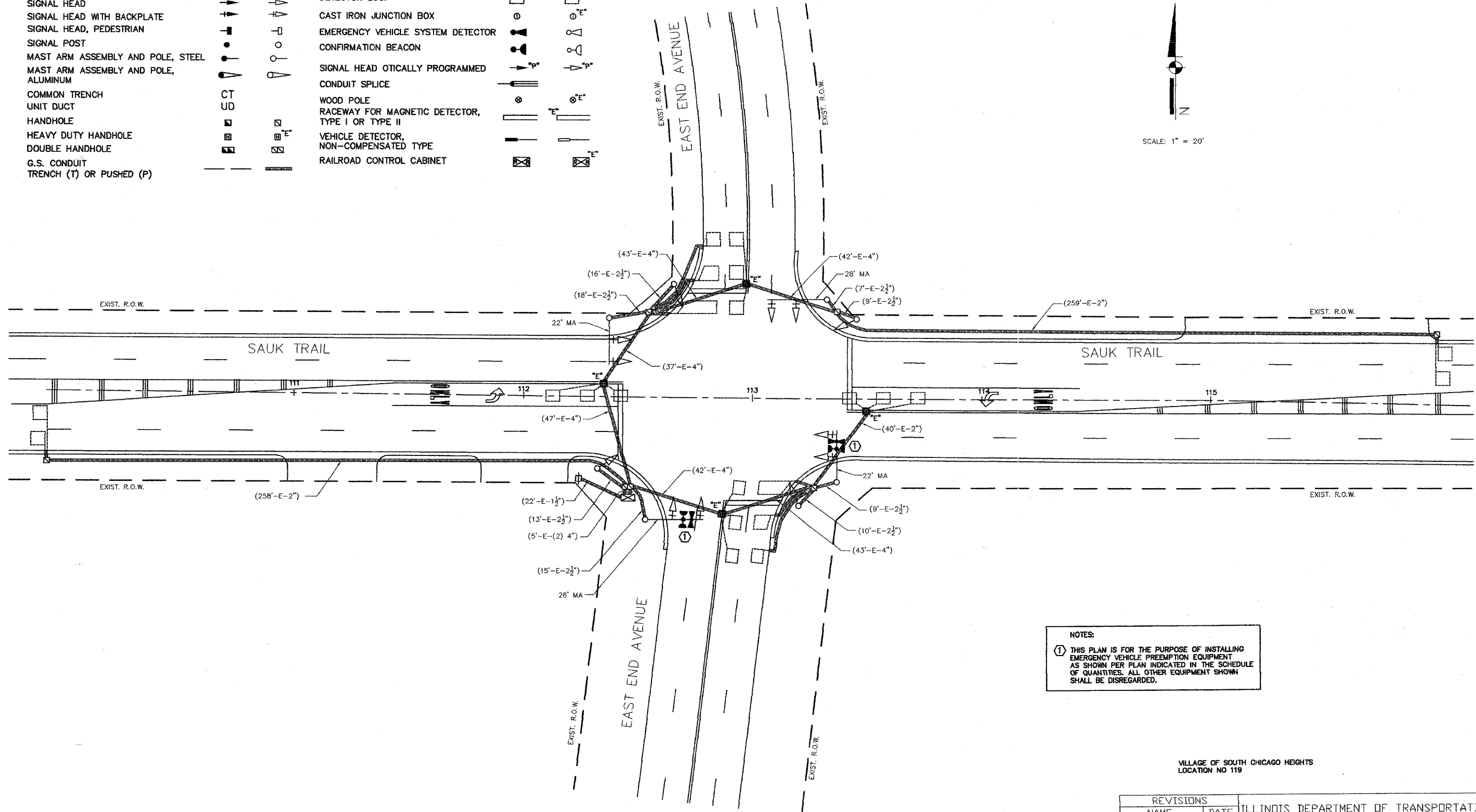
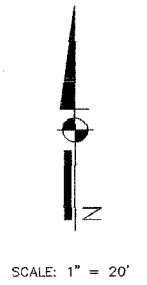
REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION EMERGENCY VEHICLE PREEMPTION CABLE PLAN CONTROLLER SEQUENCE SCHEDULE OF QUANTITIES IL. ROUTE 1 AND 26th STREET
NAME	DATE	

SCALE: N.T.S. DRAWN BY: MJD
 DATE: 1/02/08 CHECKED BY: MJD

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-000146-00-TL		273	246
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

SIGNAL PLAN LEGEND

	PROPOSED	EXISTING		PROPOSED	EXISTING
CONTROLLER			PEDESTRIAN PUSHBUTTON DETECTOR		
SERVICE INSTALLATION			DETECTOR LOOP		
SIGNAL HEAD			CAST IRON JUNCTION BOX		
SIGNAL HEAD WITH BACKPLATE			EMERGENCY VEHICLE SYSTEM DETECTOR		
SIGNAL HEAD, PEDESTRIAN			CONFIRMATION BEACON		
SIGNAL POST			SIGNAL HEAD OPTICALLY PROGRAMMED		
MAST ARM ASSEMBLY AND POLE, STEEL			CONDUIT SPLICE		
MAST ARM ASSEMBLY AND POLE, ALUMINUM			WOOD POLE		
COMMON TRENCH			RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II		
UNIT DUCT			VEHICLE DETECTOR, NON-COMPENSATED TYPE		
HANDHOLE			RAILROAD CONTROL CABINET		
HEAVY DUTY HANDHOLE					
DOUBLE HANDHOLE					
G.S. CONDUIT					
TRENCH (T) OR PUSHED (P)					



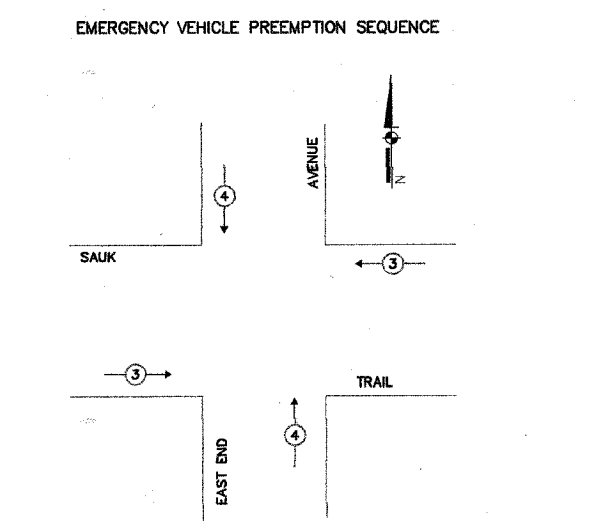
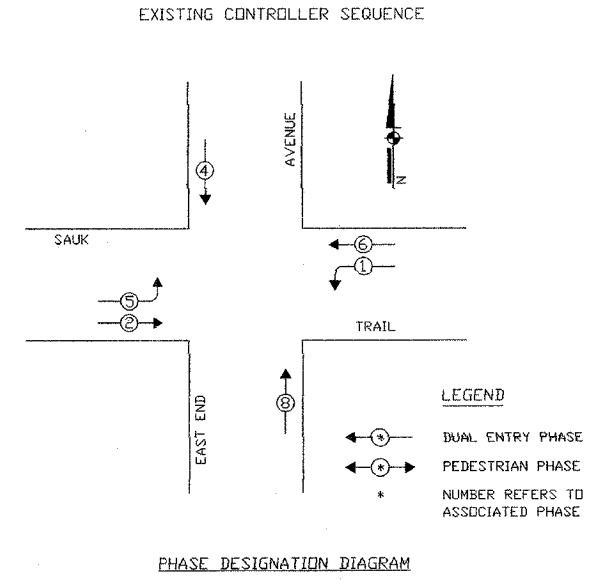
NOTES:
 ① THIS PLAN IS FOR THE PURPOSE OF INSTALLING EMERGENCY VEHICLE PREEMPTION EQUIPMENT AS SHOWN PER PLAN INDICATED IN THE SCHEDULE OF QUANTITIES. ALL OTHER EQUIPMENT SHOWN SHALL BE DISREGARDED.

VILLAGE OF SOUTH CHICAGO HEIGHTS
 LOCATION NO 119

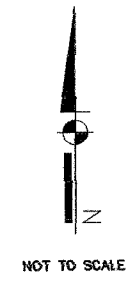
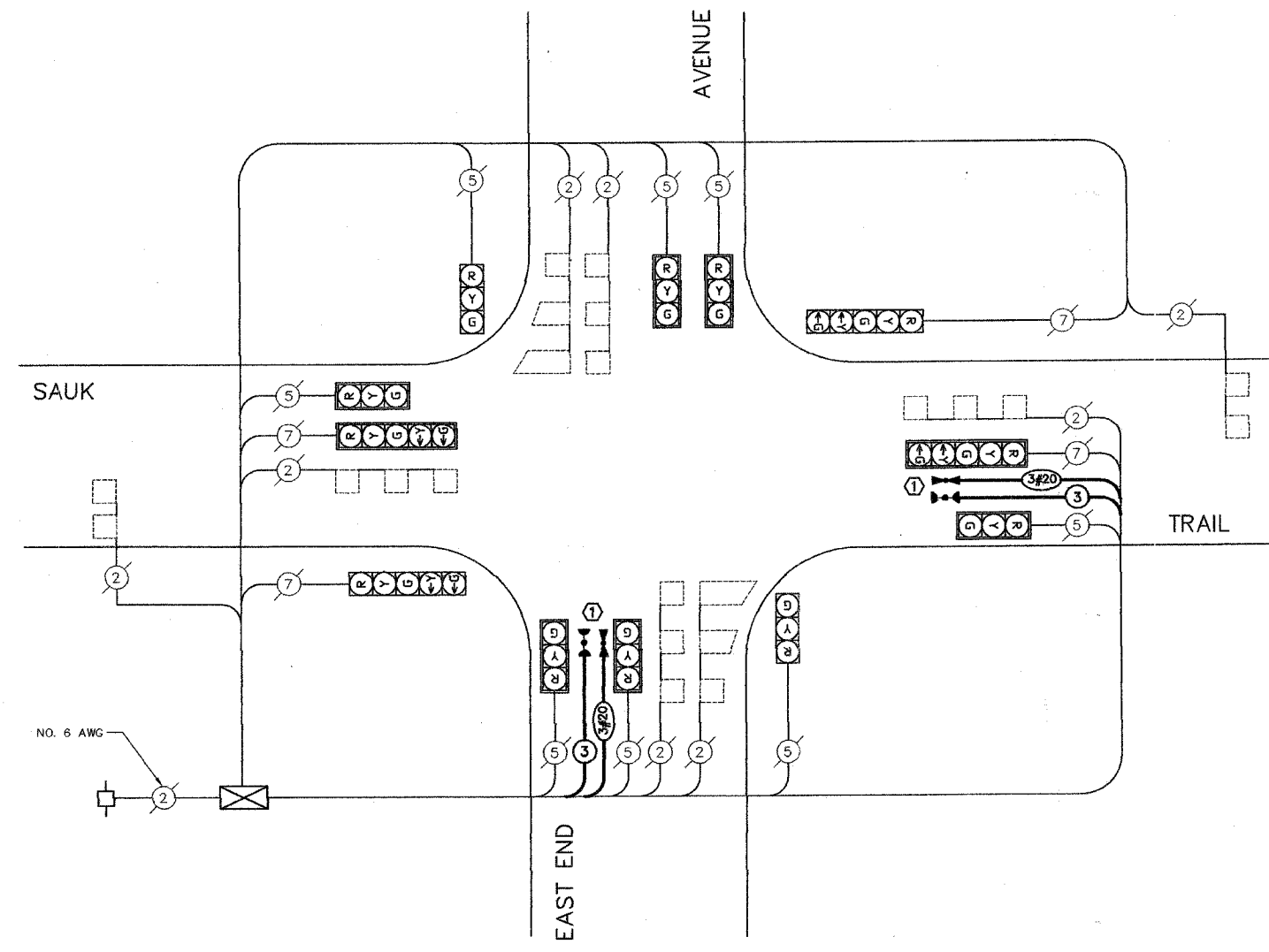
REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		PROPOSED EMERGENCY VEHICLE PREEMPTION SAUK TRAIL AND EAST END AVENUE SCALE: 1" = 20' DATE: 1/02/08 DRAWN BY: MJD CHECKED BY: MJD

MODIFIED BY JOSEPH SCHUDT and ASSOCIATES

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-000146-00-TL		273	247
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



PROPOSED EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTORS	3	4
MOVEMENT	↔	↕



CABLE PLAN LEGEND

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 INSTALLATION
[Symbol]	[Symbol]	VEHICLE DETECTOR, INDUCTION LOOP
[Symbol]	[Symbol]	MAGNETIC DETECTOR
[Symbol]	[Symbol]	EMERGENCY VEHICLE LIGHT DETECTOR
[Symbol]	[Symbol]	CONFIRMATION BEACON
[Symbol]	[Symbol]	PUSHBUTTON DETECTOR
[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. *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 (H), DOUBLE HANDHOLE (HD), OR CONTROLLER (C)
[Symbol]	[Symbol]	GROUND ROD AT POST OR MAST ARM POLE
[Symbol]	[Symbol]	GROUND ROD AT ELECTRIC SERVICE INSTALLATION
[Symbol]	[Symbol]	GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)
[Symbol]	[Symbol]	FIBER OPTIC CABLE IN CONDUIT NO. 62.5/125 2-MM12F & SM12F

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	4
Light Detector Amplifier	Each	1
Electric Cable in Conduit, No. 20 3c Twisted Shielded	Foot	250
Traffic Control and Protection Standard 701701	Each	1

CABLE PLAN

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.

MODIFIED BY JOSEPH SCHUDT and ASSOCIATES

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION EMERGENCY VEHICLE PREEMPTION CABLE PLAN CONTROLLER SEQUENCE SCHEDULE OF QUANTITIES SAUK TRAIL AND EAST END AVENUE
NAME	DATE	

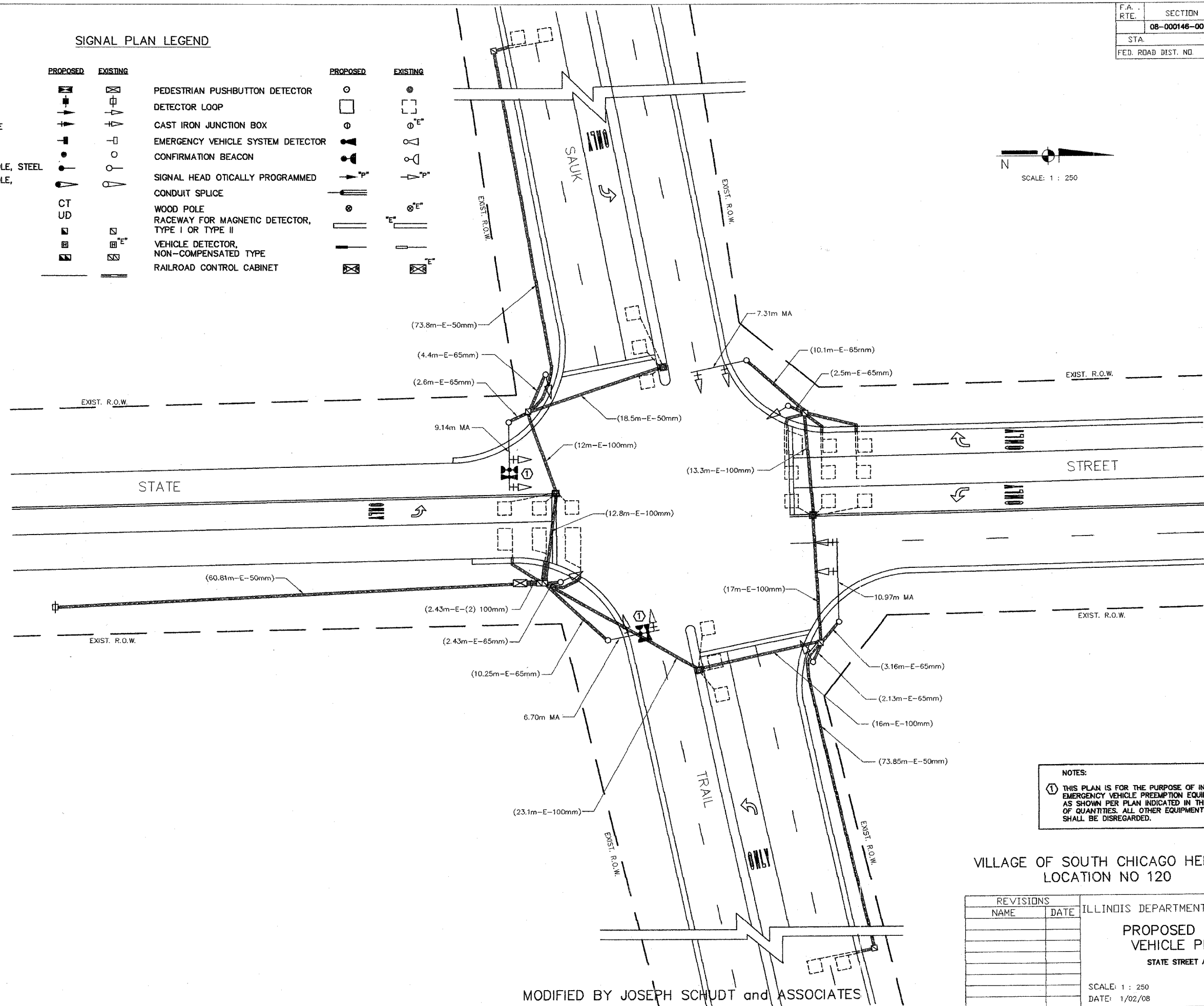
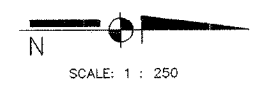
SCALE: N.T.S. DRAWN BY: MJD
DATE: 1/02/08 CHECKED BY: MJD

VILLAGE OF SOUTH CHICAGO HEIGHTS
LOCATION NO 119

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-000146-00-TL		273	248
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SIGNAL PLAN LEGEND

PROPOSED	EXISTING	PROPOSED	EXISTING
CONTROLLER		PEDESTRIAN PUSHBUTTON DETECTOR	
SERVICE INSTALLATION		DETECTOR LOOP	
SIGNAL HEAD		CAST IRON JUNCTION BOX	
SIGNAL HEAD WITH BACKPLATE		EMERGENCY VEHICLE SYSTEM DETECTOR	
SIGNAL HEAD, PEDESTRIAN		CONFIRMATION BEACON	
SIGNAL POST		SIGNAL HEAD OPTICALLY PROGRAMMED	
MAST ARM ASSEMBLY AND POLE, STEEL		CONDUIT SPLICE	
MAST ARM ASSEMBLY AND POLE, ALUMINUM		WOOD POLE	
COMMON TRENCH		RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II	
UNIT DUCT		VEHICLE DETECTOR, NON-COMPENSATED TYPE	
HANDHOLE		RAILROAD CONTROL CABINET	
HEAVY DUTY HANDHOLE			
DOUBLE HANDHOLE			
G.S. CONDUIT			
TRENCH (T) OR PUSHED (P)			



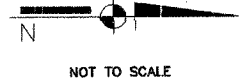
NOTES:
 ① THIS PLAN IS FOR THE PURPOSE OF INSTALLING EMERGENCY VEHICLE PREEMPTION EQUIPMENT AS SHOWN PER PLAN INDICATED IN THE SCHEDULE OF QUANTITIES. ALL OTHER EQUIPMENT SHOWN SHALL BE DISREGARDED.

VILLAGE OF SOUTH CHICAGO HEIGHTS
 LOCATION NO 120

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
PROPOSED EMERGENCY VEHICLE PREEMPTION
 STATE STREET AND SAUK TRAIL
 SCALE: 1 : 250
 DATE: 1/02/08
 DRAWN BY: MJD
 CHECKED BY: MJD

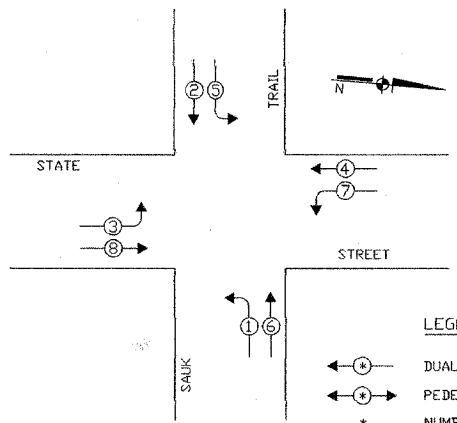
MODIFIED BY JOSEPH SCHUDT and ASSOCIATES



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 INSTALLATION |
| | | | | VEHICLE DETECTOR, INDUCTION LOOP |
| | | | | MAGNETIC DETECTOR |
| | | | | EMERGENCY VEHICLE LIGHT DETECTOR |
| | | | | CONFIRMATION BEACON |
| | | | | PUSHBUTTON DETECTOR |
| | | | | 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 (H), |
| | | | | DOUBLE HANDHOLE (HD), |
| | | | | OR CONTROLLER (C) |
| | | | | GROUND ROD AT POST |
| | | | | OR MAST ARM POLE |
| | | | | GROUND ROD AT ELECTRIC |
| | | | | SERVICE INSTALLATION |
| | | | | GROUND CABLE IN CONDUIT |
| | | | | NO. 6 SOLID COPPER (GREEN) |
| | | | | FIBER OPTIC CABLE IN CONDUIT |
| | | | | NO. 62.5/125 2-MM12F & SM12F |

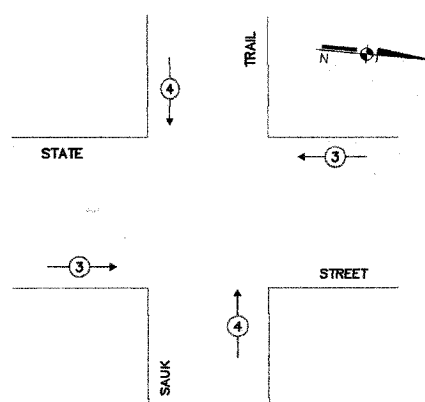
EXISTING CONTROLLER SEQUENCE



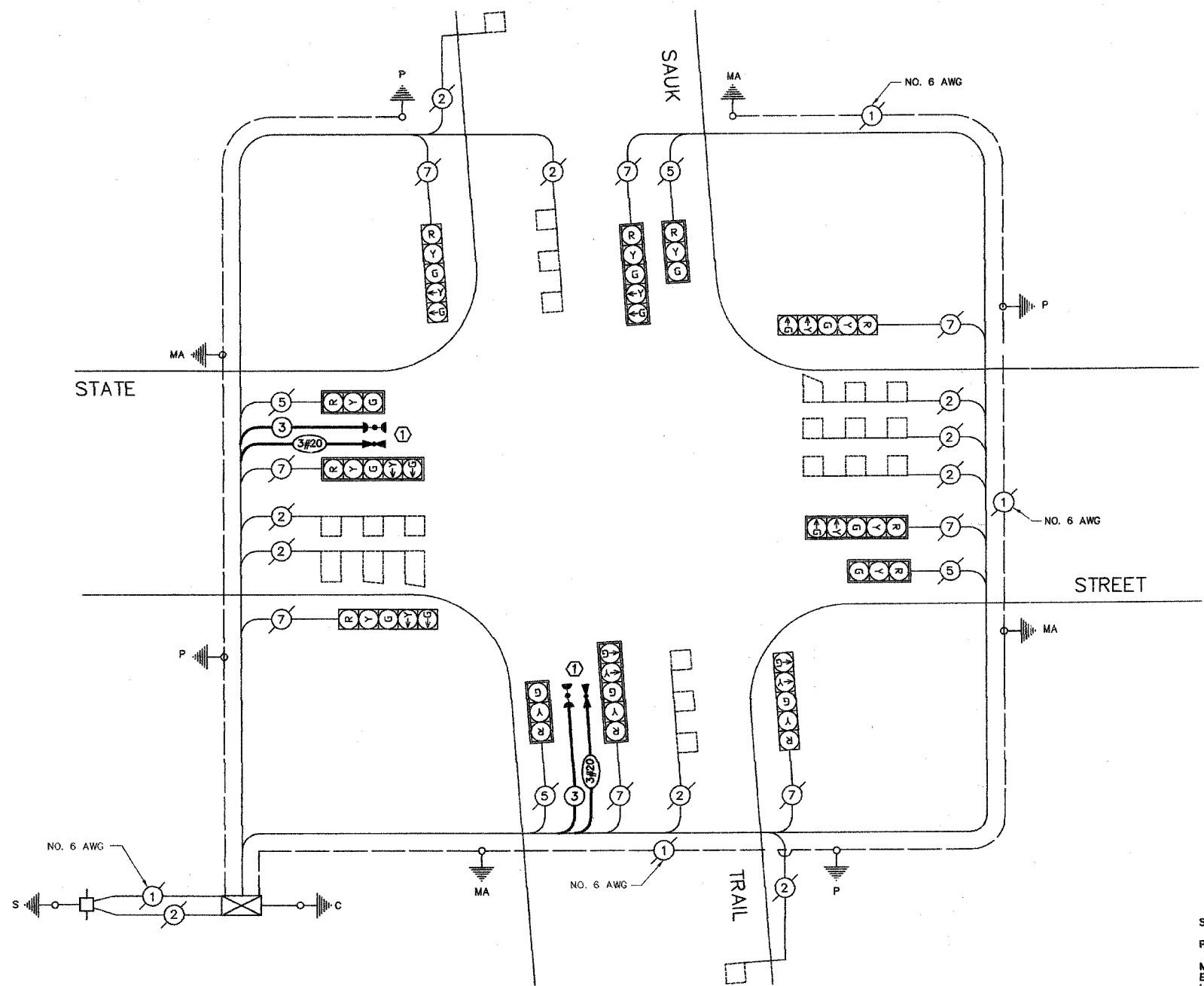
PHASE DESIGNATION DIAGRAM

- LEGEND**
- DUAL ENTRY PHASE
 - PEDESTRIAN PHASE
 - * NUMBER REFERS TO ASSOCIATED PHASE

EMERGENCY VEHICLE PREEMPTION SEQUENCE



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



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	Meter	101.4
Light Detector	Each	4
Light Detector Amplifier	Each	1
Electric Cable in Conduit, No. 20 3c Twisted Shielded	Meter	101.4
Traffic Control and Protection Standard 701701	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.

MODIFIED BY JOSEPH SCHUDT and ASSOCIATES

REVISIONS	
NAME	DATE

VILLAGE OF SOUTH CHICAGO HEIGHTS
LOCATION NO 120

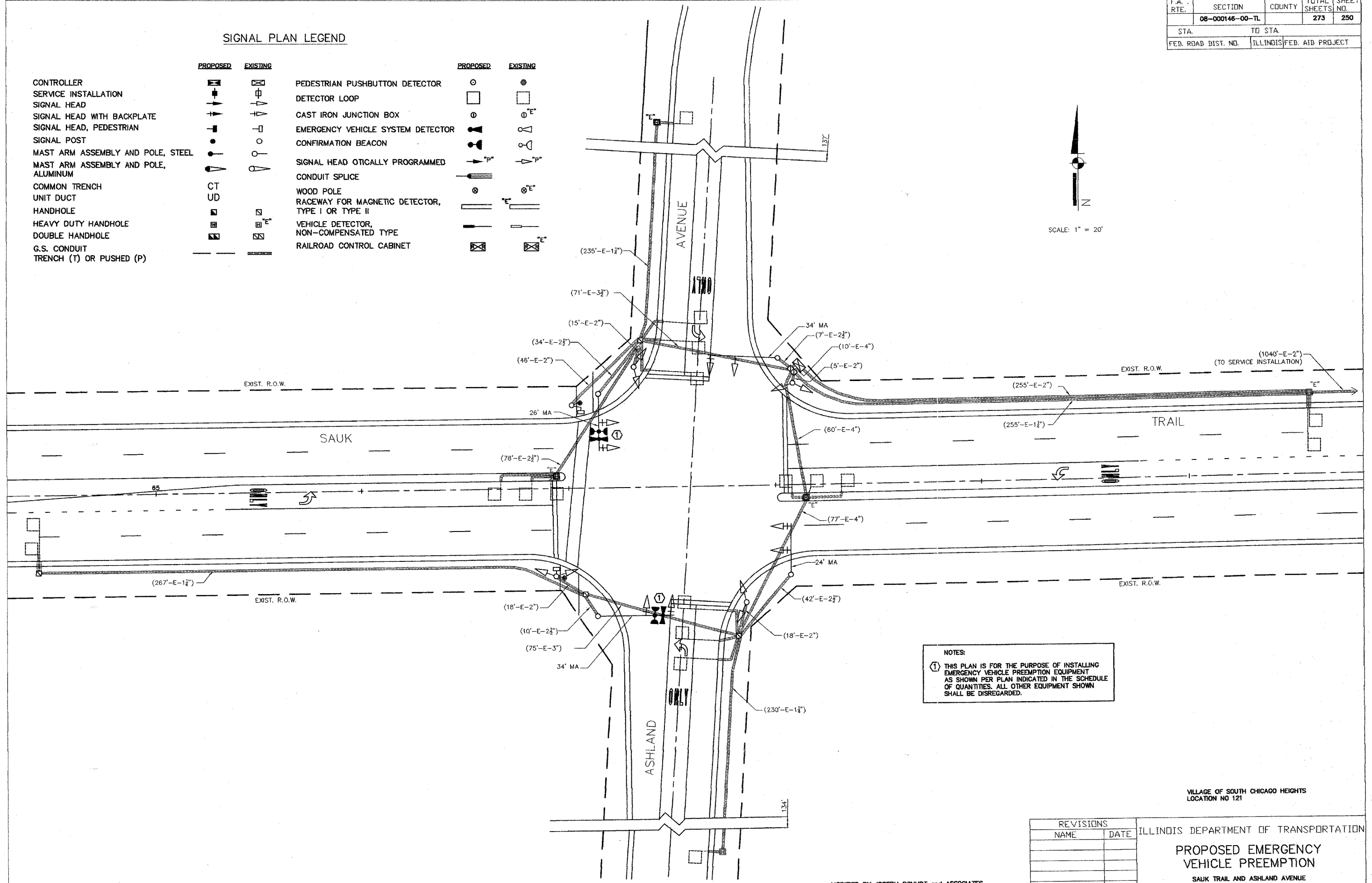
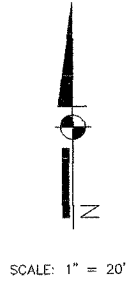
ILLINOIS DEPARTMENT OF TRANSPORTATION
EMERGENCY VEHICLE PREEMPTION
CABLE PLAN
CONTROLLER SEQUENCE
SCHEDULE OF QUANTITIES
STATE STREET AND SAUK TRAIL

SCALE: N.T.S. DRAWN BY: MJD
DATE: 1/02/08 CHECKED BY: MJD

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-000146-00-TL		273	250
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

SIGNAL PLAN LEGEND

CONTROLLER			PEDESTRIAN PUSHBUTTON DETECTOR		
SERVICE INSTALLATION			DETECTOR LOOP		
SIGNAL HEAD			CAST IRON JUNCTION BOX		
SIGNAL HEAD WITH BACKPLATE			EMERGENCY VEHICLE SYSTEM DETECTOR		
SIGNAL HEAD, PEDESTRIAN			CONFIRMATION BEACON		
SIGNAL POST			SIGNAL HEAD OPTICALLY PROGRAMMED		
MAST ARM ASSEMBLY AND POLE, STEEL			CONDUIT SPLICE		
MAST ARM ASSEMBLY AND POLE, ALUMINUM			WOOD POLE		
COMMON TRENCH	CT		RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II		
UNIT DUCT	UD		VEHICLE DETECTOR, NON-COMPENSATED TYPE		
HANDHOLE			RAILROAD CONTROL CABINET		
HEAVY DUTY HANDHOLE					
DOUBLE HANDHOLE					
G.S. CONDUIT TRENCH (T) OR PUSHED (P)					



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 SOUTH CHICAGO HEIGHTS
 LOCATION NO 121

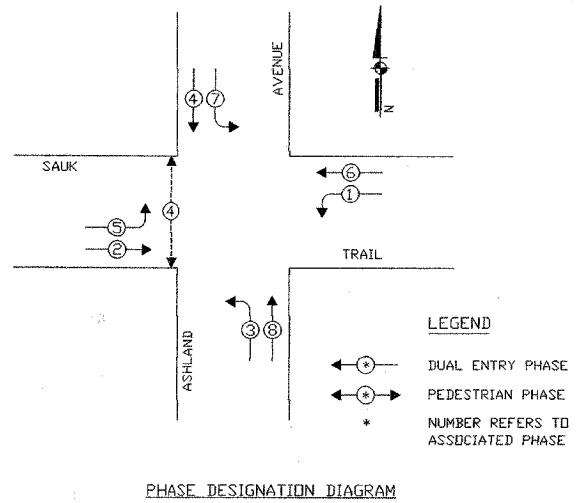
REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		PROPOSED EMERGENCY VEHICLE PREEMPTION SAUK TRAIL AND ASHLAND AVENUE

MODIFIED BY JOSEPH SCHUDT and ASSOCIATES

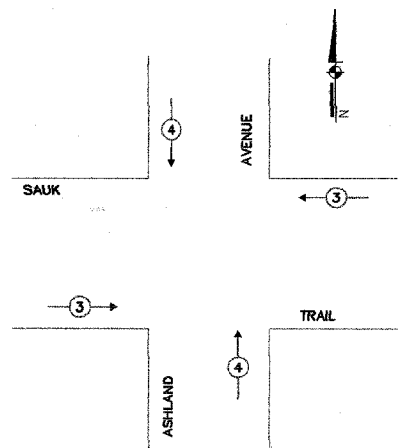
SCALE: 1" = 20'
 DATE: 1/02/08
 DRAWN BY: MJD
 CHECKED BY: MJD

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-000148-00-TL		273	251
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

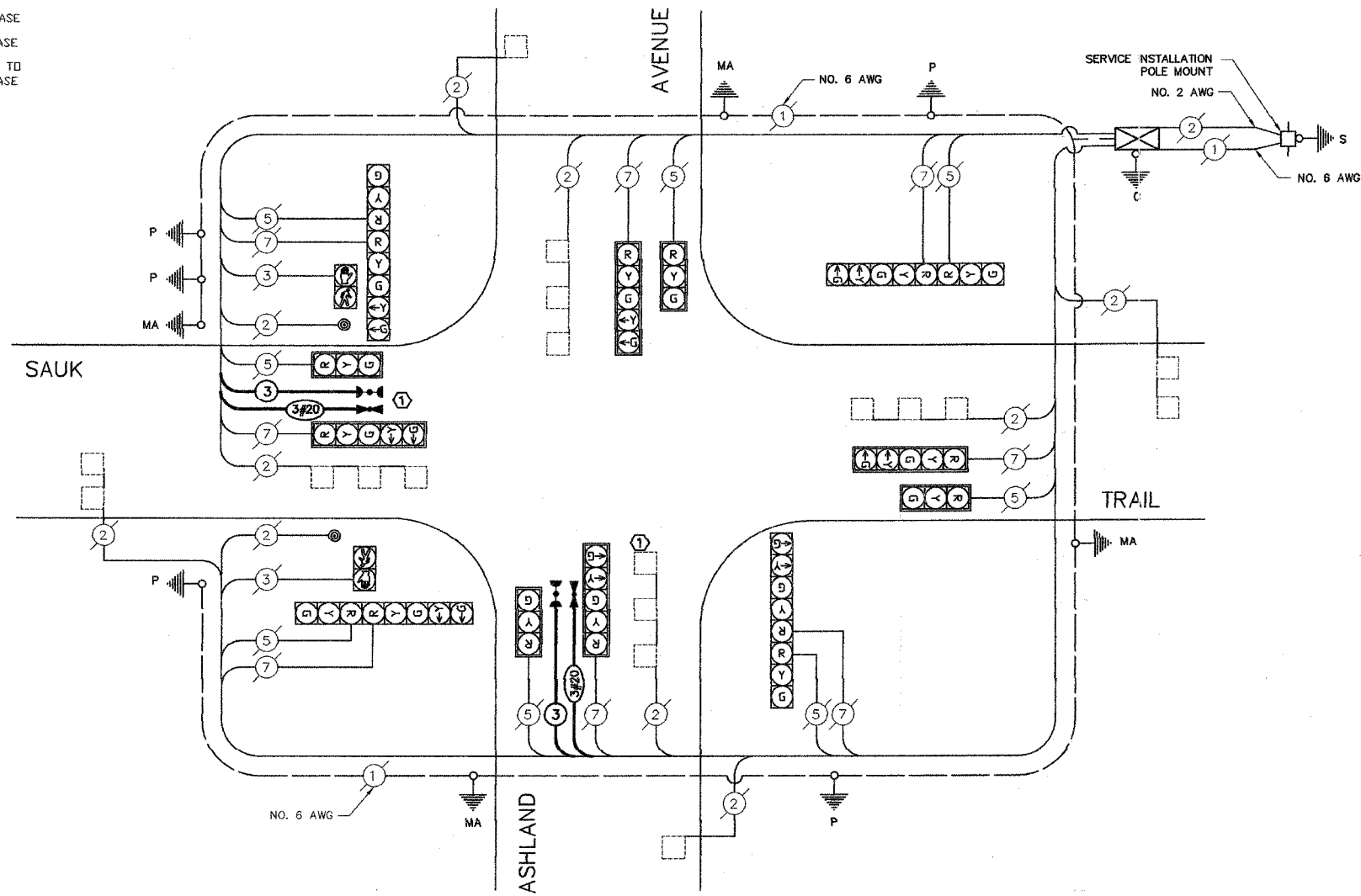
EXISTING CONTROLLER SEQUENCE



EMERGENCY VEHICLE PREEMPTION SEQUENCE



EMERGENCY VEHICLE PREEMPTORS	3	4
MOVEMENT	↔	↕



CABLE PLAN

MODIFIED BY JOSEPH SCHUDT and ASSOCIATES

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.

CABLE PLAN LEGEND

- | | | |
|--|--|---|
| | | 8' TRAFFIC SIGNAL SECTION |
| | | 12' TRAFFIC SIGNAL SECTION |
| | | 12' PEDESTRIAN SIGNAL SECTION |
| | | CONTROLLER CABINET |
| | | SERVICE INSTALLATION |
| | | TELEPHONE INSTALLATION |
| | | VEHICLE DETECTOR, INDUCTION LOOP |
| | | MAGNETIC DETECTOR |
| | | EMERGENCY VEHICLE LIGHT DETECTOR |
| | | CONFIRMATION BEACON |
| | | PUSHBUTTON DETECTOR |
| | | 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 (H), DOUBLE HANDHOLE (HD), OR CONTROLLER (C) |
| | | GROUND ROD AT POST OR MAST ARM POLE |
| | | GROUND ROD AT ELECTRIC SERVICE INSTALLATION |
| | | GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN) |
| | | FIBER OPTIC CABLE IN CONDUIT NO. 62.5/125 2-MM12F & SM12F |

SCHEDULE OF QUANTITIES

Pay Item	Unit	Quantity
Maintenance of Existing Traffic Signal Installation	Each	1
Electric Cable in Conduit, Signal No. 14, 3c	Foot	499
Light Detector	Each	4
Light Detector Amplifier	Each	1
Electric Cable in Conduit, No. 20 3c Twisted Shielded	Foot	499
Traffic Control and Protection Standard 701701	Each	1

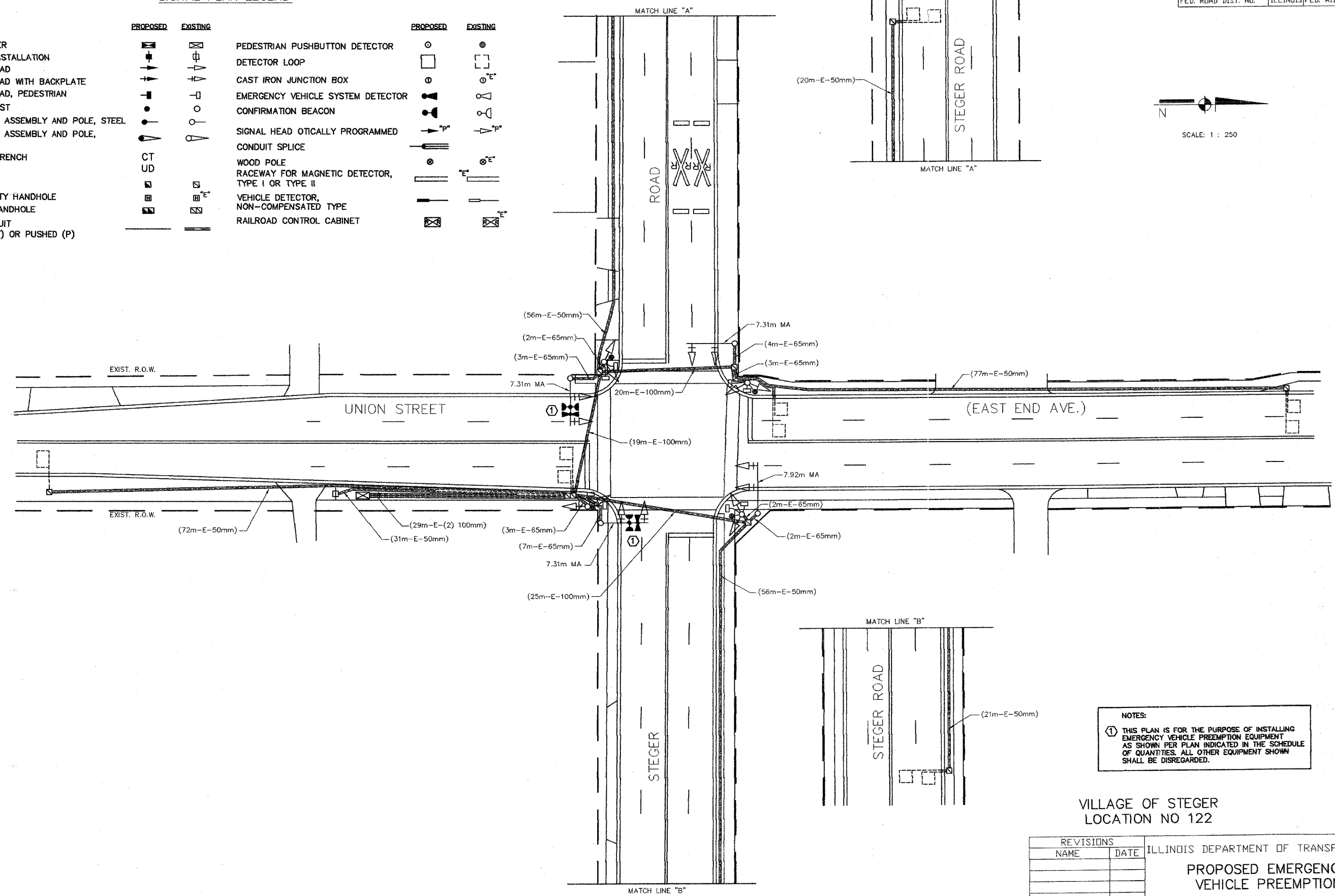
VILLAGE OF SOUTH CHICAGO HEIGHTS
LOCATION NO 121

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION EMERGENCY VEHICLE PREEMPTION CABLE PLAN CONTROLLER SEQUENCE SCHEDULE OF QUANTITIES SAUK TRAIL AND ASHLAND AVENUE
NAME	DATE	
		SCALE: N.T.S. DRAWN BY: MJD DATE: 1/02/08 CHECKED BY: MJD

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-000146-00-TL		273	252
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

SIGNAL PLAN LEGEND

PROPOSED	EXISTING	PROPOSED	EXISTING
CONTROLLER	[Symbol]	PEDESTRIAN PUSHBUTTON DETECTOR	[Symbol]
SERVICE INSTALLATION	[Symbol]	DETECTOR LOOP	[Symbol]
SIGNAL HEAD	[Symbol]	CAST IRON JUNCTION BOX	[Symbol]
SIGNAL HEAD WITH BACKPLATE	[Symbol]	EMERGENCY VEHICLE SYSTEM DETECTOR	[Symbol]
SIGNAL HEAD, PEDESTRIAN	[Symbol]	CONFIRMATION BEACON	[Symbol]
SIGNAL POST	[Symbol]	SIGNAL HEAD OPTICALLY PROGRAMMED	[Symbol]
MAST ARM ASSEMBLY AND POLE, STEEL	[Symbol]	CONDUIT SPLICE	[Symbol]
MAST ARM ASSEMBLY AND POLE, ALUMINUM	[Symbol]	WOOD POLE	[Symbol]
COMMON TRENCH	[Symbol]	RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II	[Symbol]
UNIT DUCT	[Symbol]	VEHICLE DETECTOR, NON-COMPENSATED TYPE	[Symbol]
HANDHOLE	[Symbol]	RAILROAD CONTROL CABINET	[Symbol]
HEAVY DUTY HANDHOLE	[Symbol]		
DOUBLE HANDHOLE	[Symbol]		
G.S. CONDUIT	[Symbol]		
TRENCH (T) OR PUSHED (P)	[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 STEGER
 LOCATION NO 122

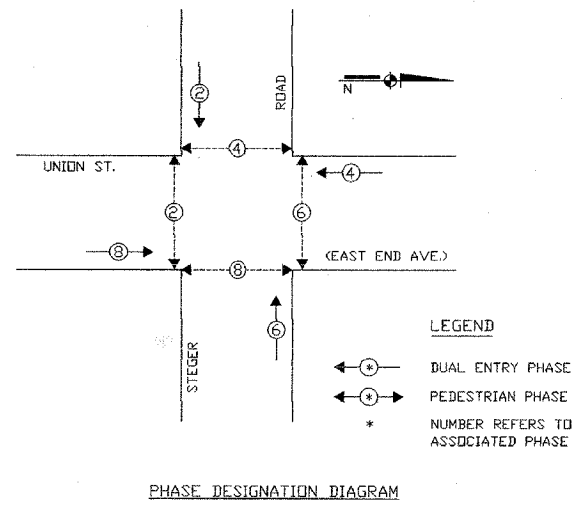
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
PROPOSED EMERGENCY VEHICLE PREEMPTION
 UNION STREET (EAST END AVE.) AND STEGER ROAD
 SCALE: 1 : 250
 DATE: 1/02/08
 DRAWN BY: MJD
 CHECKED BY: MJD

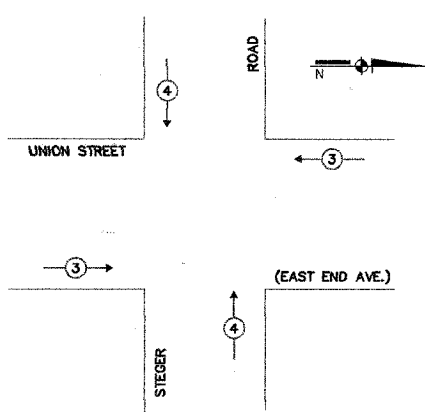
MODIFIED BY JOSEPH SCHUDT and ASSOCIATES

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-000146-00-TL		273	253
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

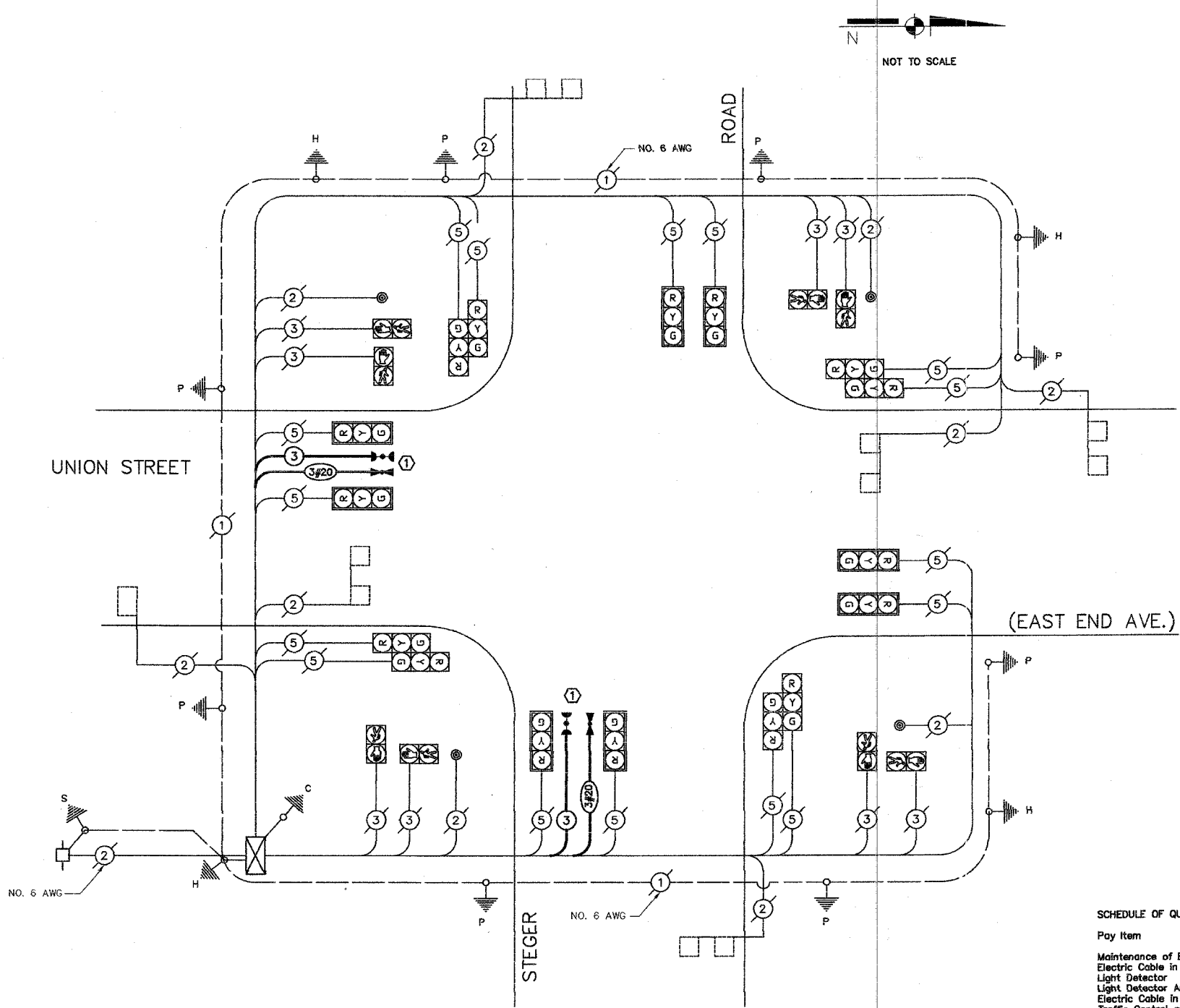
EXISTING CONTROLLER SEQUENCE



EMERGENCY VEHICLE PREEMPTION SEQUENCE



PROPOSED EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTORS	3	4
MOVEMENT	↔	↕



CABLE PLAN LEGEND

- | | | |
|--|--|---|
| | | 8" TRAFFIC SIGNAL SECTION |
| | | 12" TRAFFIC SIGNAL SECTION |
| | | 12" PEDESTRIAN SIGNAL SECTION |
| | | 12" PEDESTRIAN SIGNAL SECTION |
| | | CONTROLLER CABINET |
| | | SERVICE INSTALLATION |
| | | TELEPHONE INSTALLATION |
| | | VEHICLE DETECTOR, INDUCTION LOOP |
| | | MAGNETIC DETECTOR |
| | | EMERGENCY VEHICLE LIGHT DETECTOR |
| | | CONFIRMATION BEACON |
| | | PUSHBUTTON DETECTOR |
| | | DENITES 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 (H), DOUBLE HANDHOLE (HD), OR CONTROLLER (C) |
| | | GROUND ROD AT POST OR MAST ARM POLE |
| | | GROUND ROD AT ELECTRIC SERVICE INSTALLATION |
| | | GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN) |
| | | FIBER OPTIC CABLE IN CONDUIT NO. 62.5/125 2-MM12F & SM12F |

SCHEDULE OF QUANTITIES

Pay Item	Unit	Quantity
Maintenance of Existing Traffic Signal Installation	Each	1
Electric Cable in Conduit, Signal No. 14, 3c	Meter	127.1
Light Detector	Each	4
Light Detector Amplifier	Each	1
Electric Cable in Conduit, No. 20 3c Twisted Shielded	Meter	127.1
Traffic Control and Protection Standard 701701	Each	1

CABLE PLAN

MODIFIED BY JOSEPH SCHUDT and ASSOCIATES

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 STEGER
 LOCATION NO 122

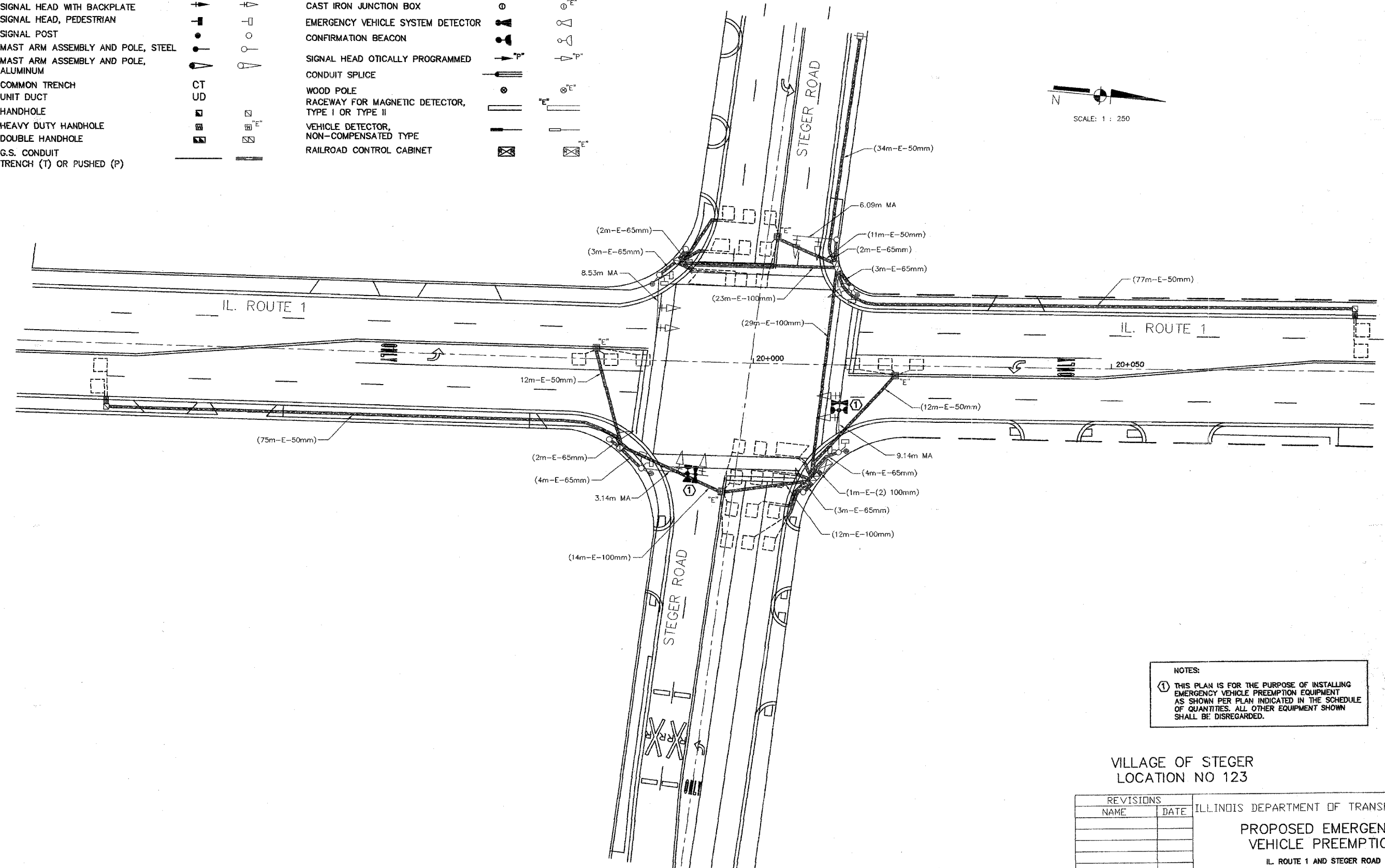
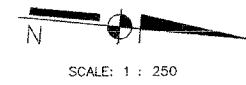
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 EMERGENCY VEHICLE PREEMPTION
 CABLE PLAN
 CONTROLLER SEQUENCE
 SCHEDULE OF QUANTITIES
 UNION STREET (EAST END AVE.) AND STEGER ROAD
 SCALE: N.T.S. DRAWN BY: MJD
 DATE: 1/02/08 CHECKED BY: MJD

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-000146-00-TL		273	254
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SIGNAL PLAN LEGEND

	PROPOSED	EXISTING		PROPOSED	EXISTING
CONTROLLER			PEDESTRIAN PUSHBUTTON DETECTOR		
SERVICE INSTALLATION			DETECTOR LOOP		
SIGNAL HEAD			CAST IRON JUNCTION BOX		
SIGNAL HEAD WITH BACKPLATE			EMERGENCY VEHICLE SYSTEM DETECTOR		
SIGNAL HEAD, PEDESTRIAN			CONFIRMATION BEACON		
SIGNAL POST			SIGNAL HEAD OPTICALLY PROGRAMMED		
MAST ARM ASSEMBLY AND POLE, STEEL			CONDUIT SPLICE		
MAST ARM ASSEMBLY AND POLE, ALUMINUM			WOOD POLE		
COMMON TRENCH	CT		RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II		
UNIT DUCT	UD		VEHICLE DETECTOR, NON-COMPENSATED TYPE		
HANDHOLE			RAILROAD CONTROL CABINET		
HEAVY DUTY HANDHOLE					
DOUBLE HANDHOLE					
G.S. CONDUIT					
TRENCH (T) OR PUSHED (P)					



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.

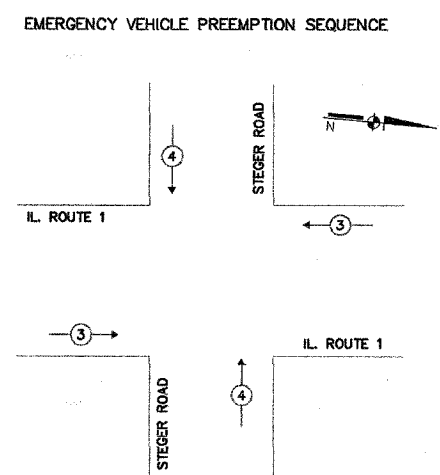
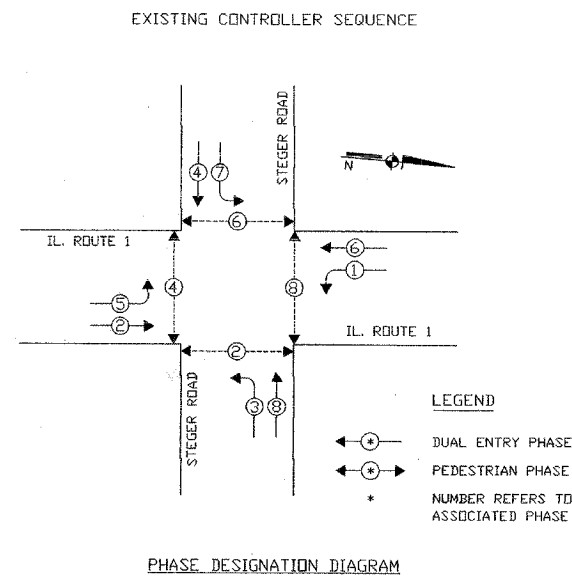
VILLAGE OF STEGER
 LOCATION NO 123

REVISIONS	
NAME	DATE

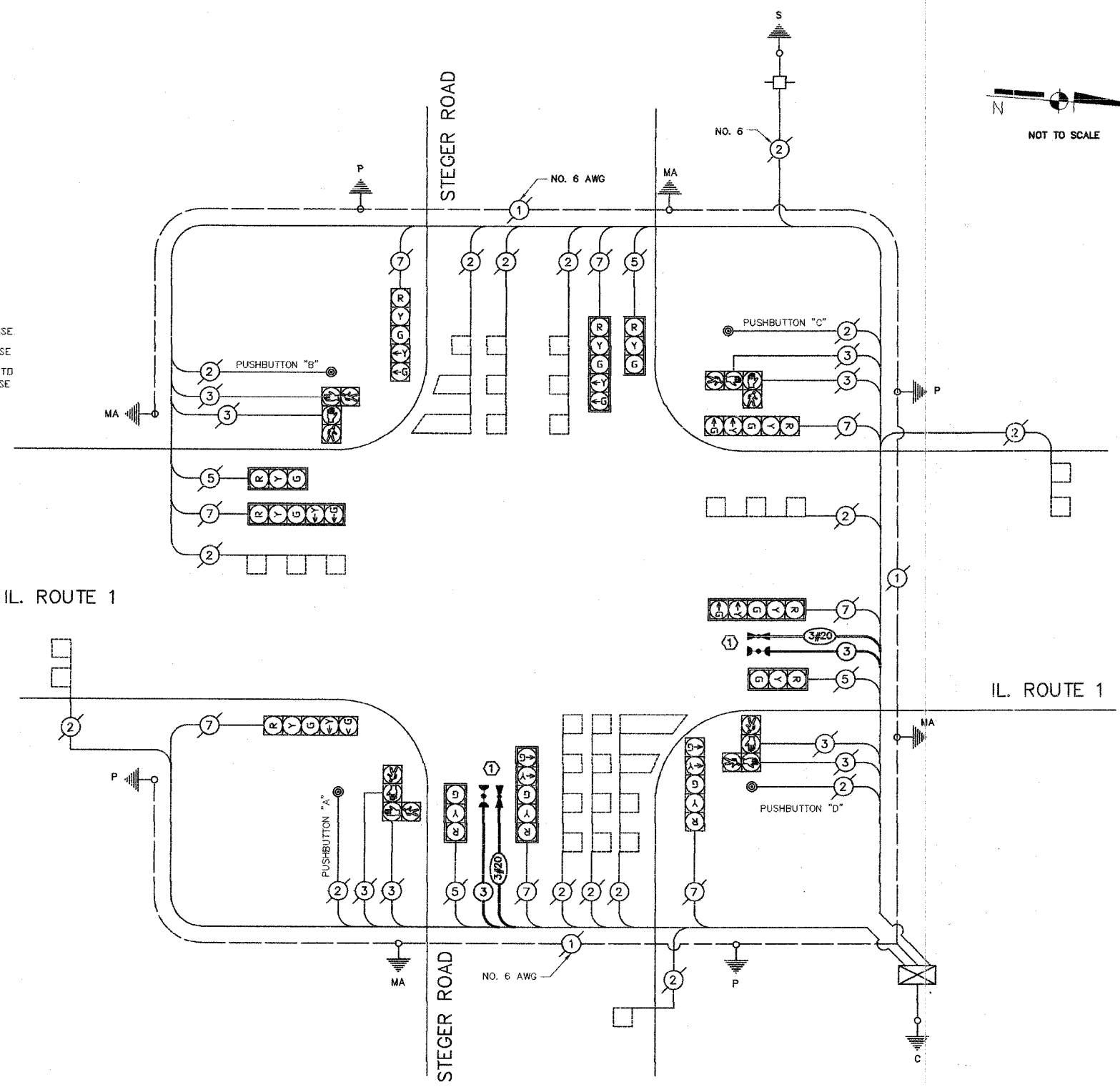
ILLINOIS DEPARTMENT OF TRANSPORTATION
PROPOSED EMERGENCY VEHICLE PREEMPTION
 IL. ROUTE 1 AND STEGER ROAD
 SCALE: 1 : 250
 DATE: 1/02/08
 DRAWN BY: MJD
 CHECKED BY: MJD

MODIFIED BY JOSEPH SCHUDT and ASSOCIATES

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-000146-00-TL		273	295
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



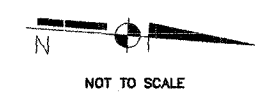
PROPOSED EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTORS	3	4
MOVEMENT	← →	↑ ↓



PUSHBUTTON NOTES:
 PUSHBUTTON "A" SHALL PLACE A CALL TO PHASES 2 AND 4.
 PUSHBUTTON "B" SHALL PLACE A CALL TO PHASES 4 AND 6.
 PUSHBUTTON "C" SHALL PLACE A CALL TO PHASES 6 AND 8.
 PUSHBUTTON "D" SHALL PLACE A CALL TO PHASES 2 AND 8.

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.

MODIFIED BY JOSEPH SCHUDT and ASSOCIATES



CABLE PLAN LEGEND

- | | | | | |
|--|-----------------|--|-----------------|---|
| | EXISTING | | PROPOSED | 8" TRAFFIC SIGNAL SECTION |
| | | | | 12" TRAFFIC SIGNAL SECTION |
| | | | | 12" PEDESTRIAN SIGNAL SECTION |
| | | | | CONTROLLER CABINET |
| | | | | SERVICE INSTALLATION |
| | | | | TELEPHONE INSTALLATION |
| | | | | VEHICLE DETECTOR, INDUCTION LOOP |
| | | | | MAGNETIC DETECTOR |
| | | | | EMERGENCY VEHICLE LIGHT DETECTOR |
| | | | | CONFIRMATION BEACON |
| | | | | PUSHBUTTON DETECTOR |
| | | | | 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 (H), DOUBLE HANDHOLE (HD), OR CONTROLLER (C) |
| | | | | GROUND ROD AT POST OR MAST ARM POLE |
| | | | | GROUND ROD AT ELECTRIC SERVICE INSTALLATION |
| | | | | GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN) |
| | | | | FIBER OPTIC CABLE IN CONDUIT NO. 62.5/125 2-MM12F & SM12F |

SCHEDULE OF QUANTITIES

SCHEDULE OF QUANTITIES	Unit	Quantity
Maintenance of Existing Traffic Signal Installation	Each	1
Electric Cable in Conduit, Signal No. 14, 3c	Meter	81.2
Light Detector	Each	4
Light Detector Amplifier	Each	1
Electric Cable in Conduit, No. 20 3c Twisted Shielded	Meter	81.2
Traffic Control and Protection Standard 701701	Each	1

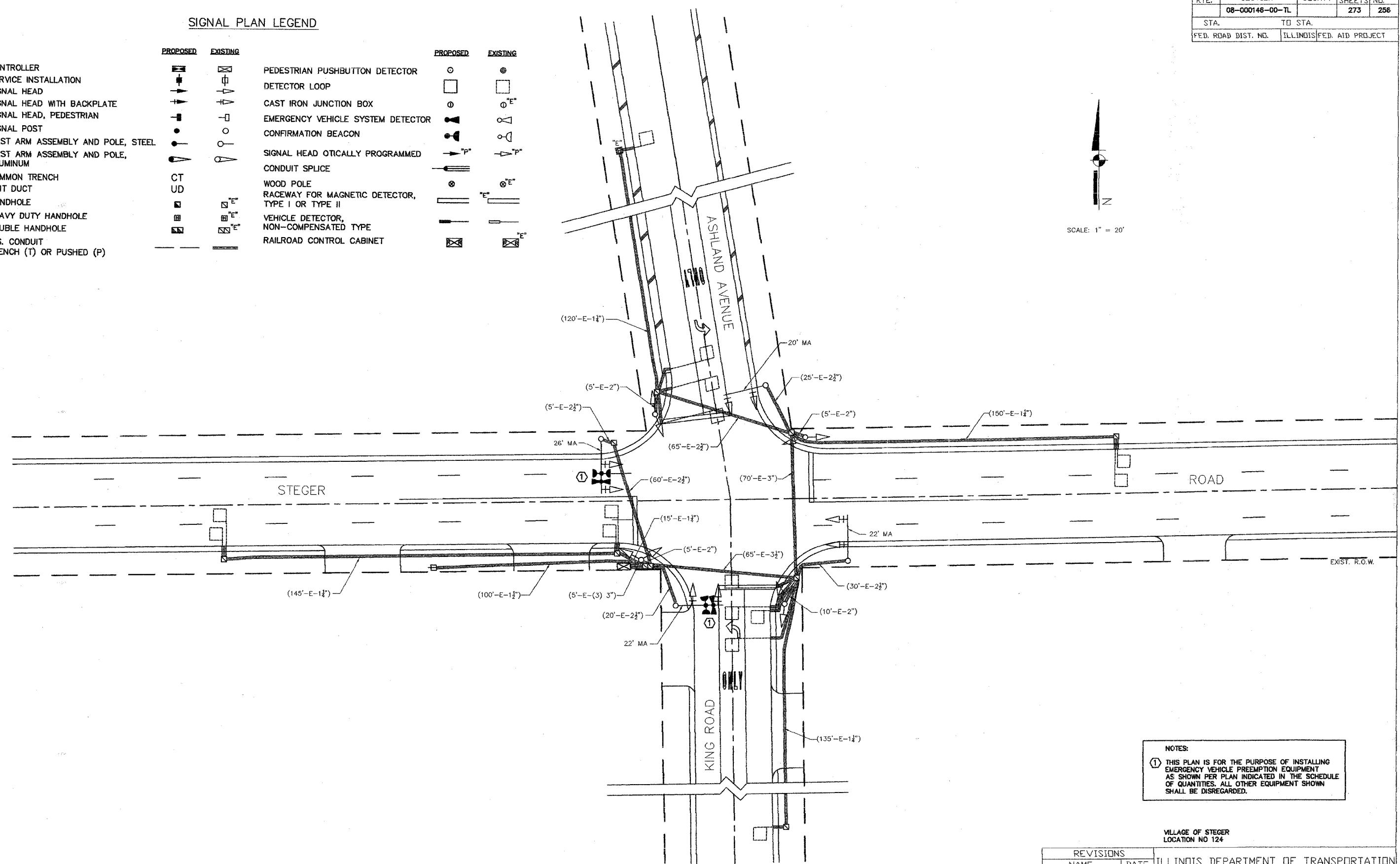
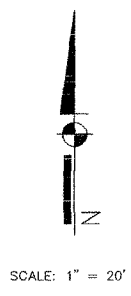
VILLAGE OF STEGER
 LOCATION NO 123

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION EMERGENCY VEHICLE PREEMPTION CABLE PLAN CONTROLLER SEQUENCE SCHEDULE OF QUANTITIES IL ROUTE 1 AND STEGER ROAD
NAME	DATE	
		SCALE: N.T.S. DATE: 1/02/08 DRAWN BY: MJD CHECKED BY: MJD

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-000146-00-TL		273	256
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SIGNAL PLAN LEGEND

PROPOSED	EXISTING	PROPOSED	EXISTING
CONTROLLER		PEDESTRIAN PUSHBUTTON DETECTOR	
SERVICE INSTALLATION		DETECTOR LOOP	
SIGNAL HEAD		CAST IRON JUNCTION BOX	
SIGNAL HEAD WITH BACKPLATE		EMERGENCY VEHICLE SYSTEM DETECTOR	
SIGNAL HEAD, PEDESTRIAN		CONFIRMATION BEACON	
SIGNAL POST		SIGNAL HEAD OPTICALLY PROGRAMMED	
MAST ARM ASSEMBLY AND POLE, STEEL		CONDUIT SPLICE	
MAST ARM ASSEMBLY AND POLE, ALUMINUM		WOOD POLE	
COMMON TRENCH	CT	RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II	
UNIT DUCT	UD	VEHICLE DETECTOR, NON-COMPENSATED TYPE	
HANDHOLE		RAILROAD CONTROL CABINET	
HEAVY DUTY HANDHOLE			
DOUBLE HANDHOLE			
G.S. CONDUIT			
TRENCH (T) OR PUSHED (P)			



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 STEGER
 LOCATION NO 124

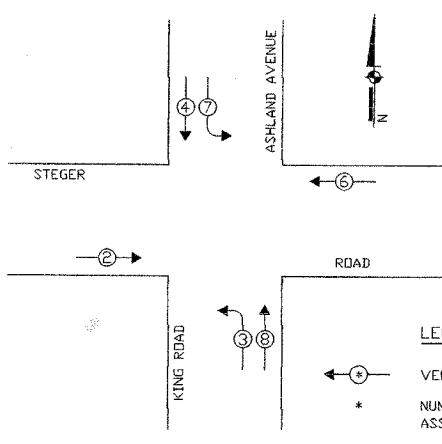
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
PROPOSED EMERGENCY VEHICLE PREEMPTION
 STEGER ROAD AND ASHLAND AVE. / KING ROAD
 SCALE: 1" = 20'
 DATE: 1/02/08
 DRAWN BY: MJD
 CHECKED BY: MJD

MODIFIED BY JOSEPH SCHUDT and ASSOCIATES

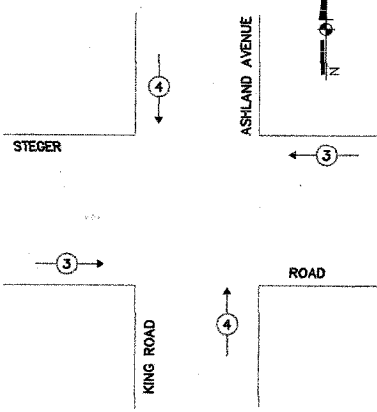
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-000146-00-TL		273	257
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

EXISTING CONTROLLER SEQUENCE

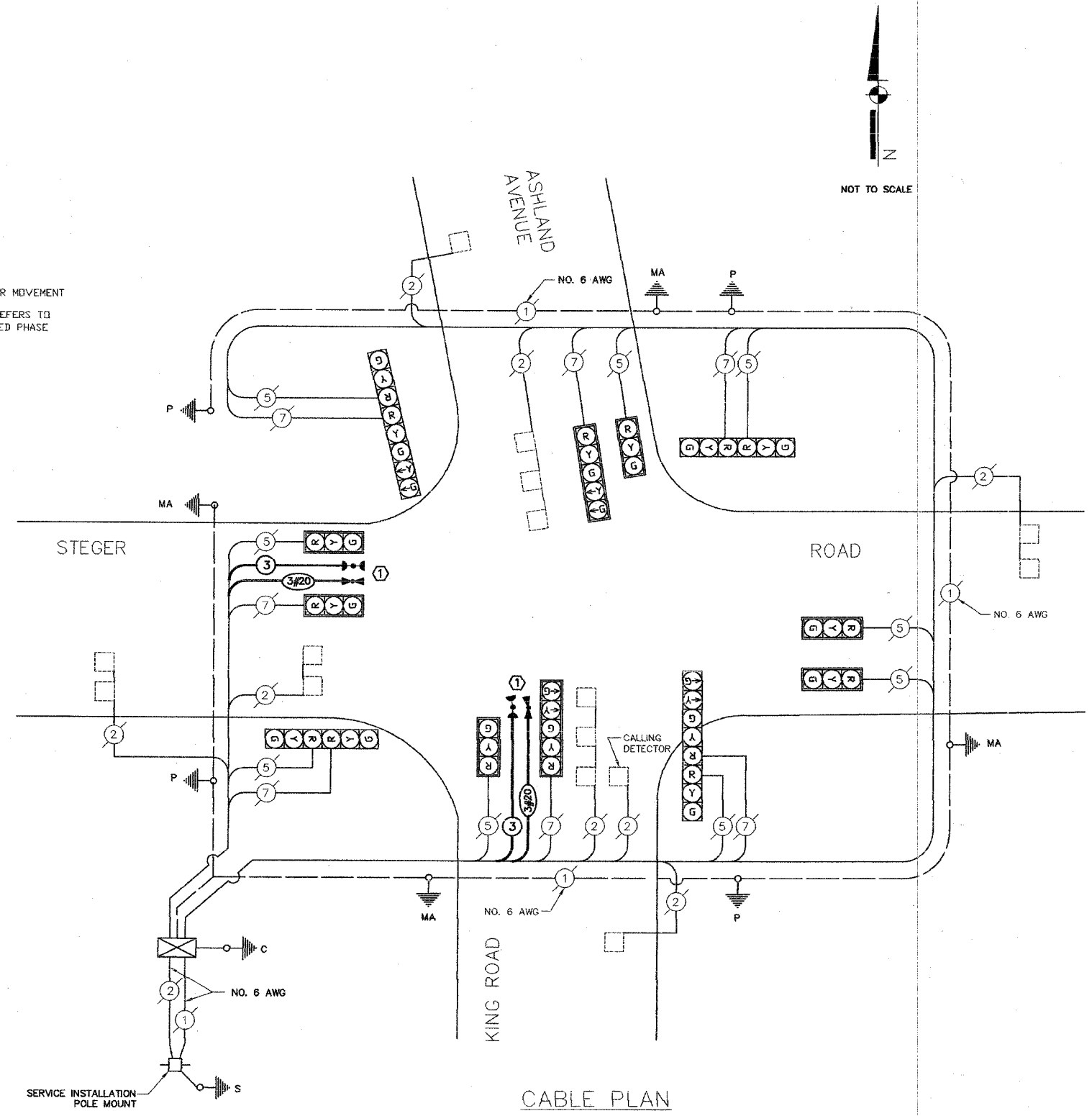


PHASE DESIGNATION DIAGRAM
 DUAL ENTRY - ALL LEGS
 PROTECTED / PERMITTED LEFT TURN PHASING

EMERGENCY VEHICLE PREEMPTION SEQUENCE



PROPOSED EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTORS	3	4
MOVEMENT	↔	↕



CABLE PLAN LEGEND

- | 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 INSTALLATION |
| [Symbol] | [Symbol] | VEHICLE DETECTOR, INDUCTION LOOP |
| [Symbol] | [Symbol] | MAGNETIC DETECTOR |
| [Symbol] | [Symbol] | EMERGENCY VEHICLE LIGHT DETECTOR |
| [Symbol] | [Symbol] | CONFIRMATION BEACON |
| [Symbol] | [Symbol] | PUSHBUTTON DETECTOR |
| [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. *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 (H), DOUBLE HANDHOLE (HD), OR CONTROLLER (C) |
| [Symbol] | [Symbol] | GROUND ROD AT POST OR MAST ARM POLE |
| [Symbol] | [Symbol] | GROUND ROD AT ELECTRIC SERVICE INSTALLATION |
| [Symbol] | [Symbol] | GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN) |
| [Symbol] | [Symbol] | FIBER OPTIC CABLE IN CONDUIT NO. 62.5/125 2-MM12F & SM12F |

SCHEDULE OF QUANTITIES

Pay Item	Unit	Quantity
Maintenance of Existing Traffic Signal Installation	Each	1
Electric Cable in Conduit, Signal No. 14, 3c	Foot	222
Light Detector	Each	4
Light Detector Amplifier	Each	1
Electric Cable in Conduit, No. 20 3c Twisted Shielded	Foot	222
Traffic Control and Protection Standard 701701	Each	1

VILLAGE OF STEGER
 LOCATION NO 124

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 EMERGENCY VEHICLE PREEMPTION
 CABLE PLAN
 CONTROLLER SEQUENCE
 SCHEDULE OF QUANTITIES
 STEGER ROAD AND ASHLAND AVE. / KING ROAD
 SCALE: N.T.S. DRAWN BY: MJD
 DATE: 1/02/08 CHECKED BY: MJD

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.

MODIFIED BY JOSEPH SCHUDT and ASSOCIATES

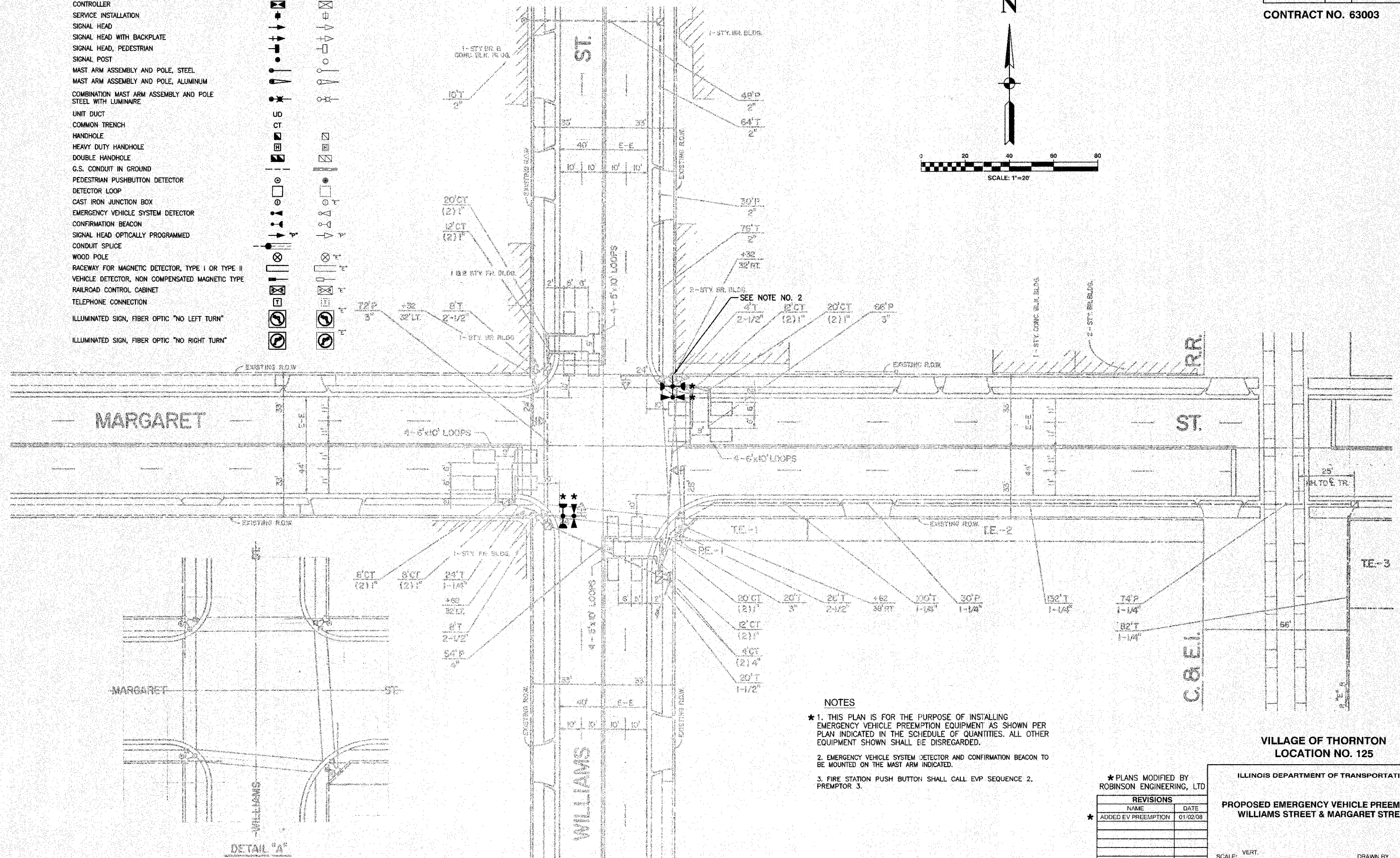
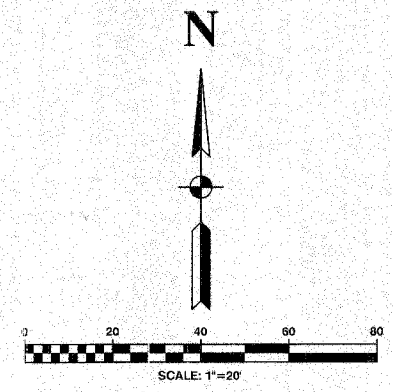
CABLE PLAN

F.A. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00146-00-TL	COOK	273	258
STA.	TO STA.			
FED. ROAD DIST. NO.	LINOS	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. EMERGENCY VEHICLE SYSTEM DETECTOR AND CONFIRMATION BEACON TO BE MOUNTED ON THE MAST ARM INDICATED.
- 3. FIRE STATION PUSH BUTTON SHALL CALL E.V.P. SEQUENCE 2, PREEMPTOR 3.

* PLANS MODIFIED BY
ROBINSON ENGINEERING, LTD

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

ILLINOIS DEPARTMENT OF TRANSPORTATION

VILLAGE OF THORNTON
LOCATION NO. 125

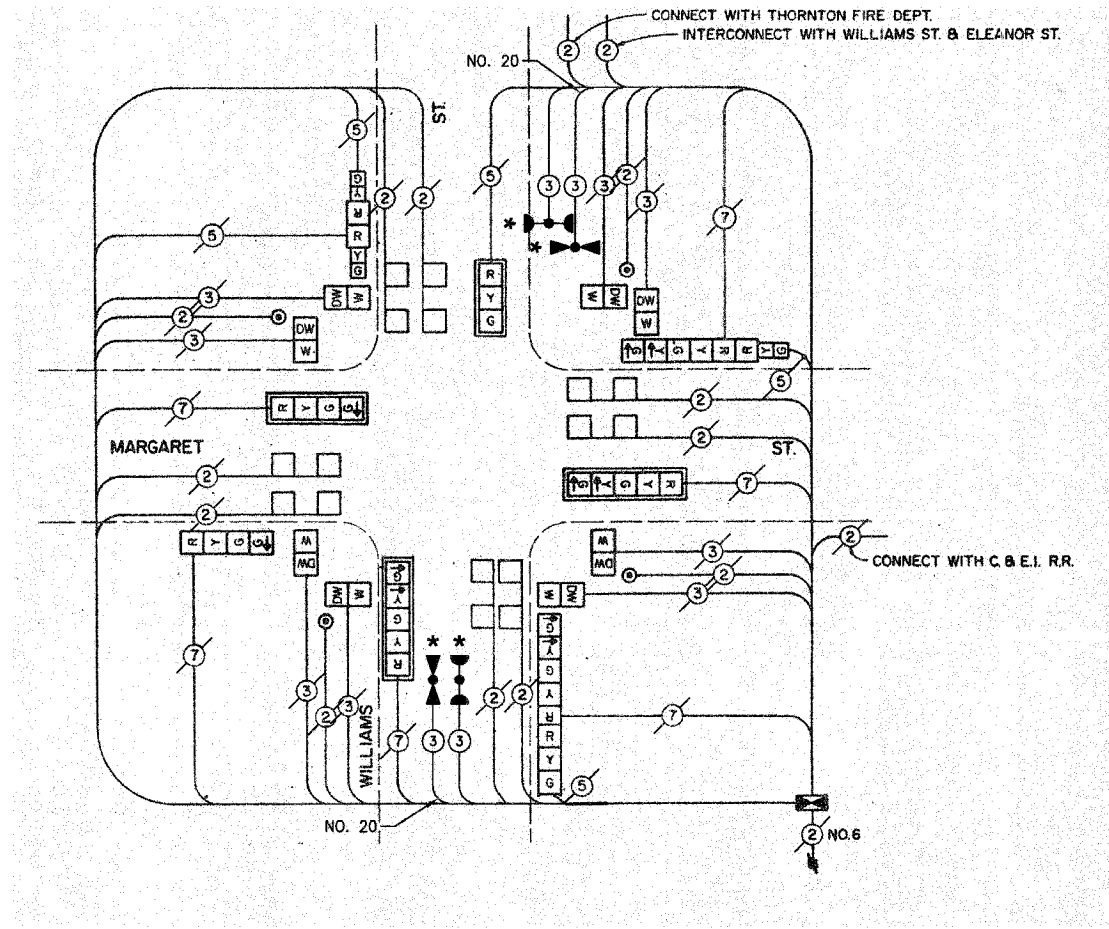
PROPOSED EMERGENCY VEHICLE PREEMPTION
WILLIAMS STREET & MARGARET STREET

SCALE: VERT. _____
HORIZ. _____

DATE _____ DRAWN BY _____
CHECKED BY _____

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
08-00146-00-TL	COOK	273	259
STA.	TO STA.		
FED. ROAD DIST. NO.	ALINKS	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
		"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	347
LIGHT DETECTOR	EACH	2
LIGHT DETECTOR AMPLIFIER	EACH	1
ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED	FOOT	347

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. FIRE STATION PUSH BUTTON SHALL CALL EVP SEQUENCE 2, PREEMPTOR 3.

* PLANS MODIFIED BY ROBINSON ENGINEERING, LTD

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

VILLAGE OF THORNTON
LOCATION NO. 125

ILLINOIS DEPARTMENT OF TRANSPORTATION

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

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

CONTRACT NO. 63003

SEQUENCE OF OPERATION

MOVEMENT	1 + 6			2 + 6			4 + 7			4 + 8			F	L	A	S	H	
	1	2	3	4	5	6A	6B	7	8	9A	9B	10	11	12	13A	13B		
CHANGE TO	∅	∅	2+6			4+7	4+8	∅	∅	1+6	2+6	4+8			1+6	2+6		
WILLIAMS STREET ALL SIGNALS	N/B	R	R	R	G	G	Y	R	R	R	R	R	R	R	R	R	R	R
WILLIAMS STREET END MAST ARM AND FAR LEFT SIGNALS	S/B	G	G	G	G	Y	R	R	R	R	R	R	R	R	R	R	R	R
WILLIAMS STREET NEAR RIGHT SIGNAL	S/B	G	G	G	G	Y	R	R	R	R	R	R	R	R	R	R	R	R
MARGARET STREET END MAST ARM AND FAR LEFT SIGNALS	E/B	R	R	R	R	R	R	G	G	Y	R	G	G	Y	R	R	R	R
MARGARET STREET NEAR RIGHT SIGNAL	E/B	R	R	R	R	R	R	R	G	G	Y	R	G	G	Y	R	R	R
MARGARET STREET END MAST ARM AND FAR LEFT SIGNALS	W/B	R	R	R	R	R	R	R	R	R	R	R	G	G	Y	R	R	R
MARGARET STREET NEAR RIGHT SIGNAL	W/B	R	R	R	R	R	R	R	R	R	R	R	R	G	G	Y	R	R
PEDESTRIAN SIGNALS CROSSING MARGARET ST. ON EAST SIDE OF WILLIAMS ST.	DW	DW	DW	*W	**FL DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW
PEDESTRIAN SIGNALS CROSSING MARGARET ST. ON WEST SIDE OF WILLIAMS ST.	*W	**FL DW	DW	*W	**FL DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW
PEDESTRIAN SIGNALS CROSSING WILLIAMS ST. ON NORTH SIDE OF MARGARET ST.	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	*W	**FL DW	DW	DW	DW	DW	DW
PEDESTRIAN SIGNALS CROSSING WILLIAMS ST. ON SOUTH SIDE OF MARGARET ST.	DW	DW	DW	DW	DW	DW	DW	*W	**FL DW	DW	DW	*W	**FL DW	DW	DW	DW	DW	DW

* TO APPEAR ONLY UPON PUSHBUTTON ACTIVATION

** FLASHING "DON'T WALK" IS TO TERMINATE AT THE COMPLETION OF THE PEDESTRIAN INTERVAL CLEARANCE.

∅ THIS "WALK" OR FLASHING "DON'T WALK" INTERVAL MAY FINISH TIMING IN THE BIDIRECTIONAL STRAIGHT THROUGH MOVEMENT IF THE LEFT ARROW TIME IS NOT SUFFICIENT TO COMPLETE "WALK" OR FLASHING "DON'T WALK" INTERVALS.

W = "WALK"

FL = FLASHING "DON'T WALK"

DW = "DON'T WALK"

PHASE 2+6 SHALL BE PLACED ON RECALL

RAILROAD PREEMPTION SEQUENCE OF OPERATION

OPERATION INTERVAL NUMBER	1	4	7	11	PREEMPTOR NUMBER 3	PREEMPTOR NUMBER 2	2	3	5	∅	CLEAR TO NORMAL SEQUENCE			
CHANGE FROM EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	2													
RAILROAD PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	1A	1B	1C	1D	1E	1F	1G	1H	1I	1J	1K	1L		
CHANGE TO RAILROAD PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	1B	2	1D	2	1F	2	1H	2	1H	2	3	5		
WILLIAMS STREET ALL SIGNALS	N/B	R	R	Y	R	R	R	R	R	R	R	R	G	∆
WILLIAMS STREET END MAST ARM AND FAR LEFT SIGNALS	S/B	R	R	Y	R	R	R	R	R	R	R	R	G	∆
WILLIAMS STREET NEAR RIGHT SIGNAL	S/B	Y	R	Y	R	R	R	R	R	R	R	R	G	∆
MARGARET STREET END MAST ARM AND FAR LEFT SIGNALS	E/B	R	R	R	R	Y	R	R	R	R	R	R	R	∆
MARGARET STREET NEAR RIGHT SIGNAL	E/B	R	R	R	R	Y	R	R	R	R	R	R	R	∆
MARGARET STREET END MAST ARM AND FAR LEFT SIGNALS	W/B	R	R	R	R	R	R	R	R	R	R	R	G	∆
MARGARET STREET NEAR RIGHT SIGNAL	W/B	R	R	R	R	R	R	R	R	R	R	R	G	∆
PEDESTRIAN SIGNALS CROSSING MARGARET ST. ON EAST SIDE OF WILLIAMS ST.	DW	DW	FL DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	∆
PEDESTRIAN SIGNALS CROSSING MARGARET ST. ON WEST SIDE OF WILLIAMS ST.	FL DW	DW	FL DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	∆
PEDESTRIAN SIGNALS CROSSING WILLIAMS ST. ON NORTH SIDE OF MARGARET ST.	DW	DW	DW	DW	DW	DW	FL DW	DW	DW	DW	DW	DW	DW	∆
PEDESTRIAN SIGNALS CROSSING WILLIAMS ST. ON SOUTH SIDE OF MARGARET ST.	DW	DW	DW	DW	FL DW	DW	FL DW	DW	DW	DW	DW	DW	DW	∆

∆ RAILROAD PREEMPTION SEQUENCE SHALL PROVIDE THE PROPER CLEARANCE INTERVAL TO RESUME THE NORMAL SEQUENCE OF OPERATION OR PROPER CLEARANCE INTERVAL TO DISPLAY AN EMERGENCY VEHICLE INTERVAL (IF APPLICABLE) AFTER RAILROAD PREEMPTION INTERVAL 5 IS TERMINATED

⊙ RAILROAD PREEMPTION SEQUENCE SHALL CYCLE BETWEEN PHASES 2+6 AND 4+8 UNTIL RAILROAD PREEMPTION IS TERMINATED

EMERGENCY VEHICLE PREEMPTION SEQUENCE OF SEPERATION

OPERATION INTERVAL NUMBER	1	4	7	11	PREEMPTOR NUMBER 3	2	CLEAR TO NORMAL SEQUENCE						
CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER	2												
EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	1A	1B	1C	1D	1E	1F	1G	1H	1J	1K	2	CLEAR TO NORMAL SEQUENCE	
RAILROAD PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	2	1C	1D	2	1F	1G	2	1J	1K	2			
WILLIAMS STREET ALL SIGNALS	N/B	R	G	Y	R	R	R	R	R	R	R	R	∅
WILLIAMS STREET END MAST ARM AND FAR LEFT SIGNALS	S/B	G	G	Y	R	R	R	R	R	R	R	R	∅
WILLIAMS STREET NEAR RIGHT SIGNAL	S/B	G	G	Y	R	R	R	R	R	R	R	R	∅
MARGARET STREET END MAST ARM AND FAR LEFT SIGNALS	E/B	R	R	R	R	Y	R	G	Y	R	R	R	∅
MARGARET STREET NEAR RIGHT SIGNAL	E/B	R	R	R	R	Y	R	G	Y	R	R	R	∅
MARGARET STREET END MAST ARM AND FAR LEFT SIGNALS	W/B	R	R	R	R	R	R	R	R	R	R	R	∅
MARGARET STREET NEAR RIGHT SIGNAL	W/B	R	R	R	R	R	R	R	R	R	R	R	∅
PEDESTRIAN SIGNALS CROSSING MARGARET ST. ON EAST SIDE OF WILLIAMS ST.	DW	FL DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	∅
PEDESTRIAN SIGNALS CROSSING MARGARET ST. ON WEST SIDE OF WILLIAMS ST.	FL DW	FL DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	∅
PEDESTRIAN SIGNALS CROSSING WILLIAMS ST. ON NORTH SIDE OF MARGARET ST.	DW	DW	DW	DW	DW	DW	DW	FL DW	DW	DW	DW	DW	∅
PEDESTRIAN SIGNALS CROSSING WILLIAMS ST. ON SOUTH SIDE OF MARGARET ST.	DW	DW	DW	DW	FL DW	DW	FL DW	DW	DW	DW	DW	DW	∅

∅ EMERGENCY VEHICLE SEQUENCE SHALL PROVIDE THE PROPER CLEARANCE INTERVAL TO RESUME THE NORMAL SEQUENCE OF OPERATION OR PROPER CLEARANCE INTERVAL TO DISPLAY A DIFFERENT EMERGENCY VEHICLE INTERVAL AFTER EMERGENCY VEHICLE 2 IS TERMINATED.

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 THORNTON
 LOCATION NO. 125

* PLANS MODIFIED BY
 ROBINSON ENGINEERING, LTD.

ILLINOIS DEPARTMENT OF TRANSPORTATION
 PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATIONS
 WILLIAMS STREET & MARGARET STREET

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

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

CONTRACT NO. 63003

RAILROAD PREEMPTION SEQUENCE OF OPERATION

	PREEMPTOR NUMBER 3		PREEMPTOR NUMBER 4		PREEMPTOR NUMBER 2												
CHANGE FROM EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER																	
CHANGE FROM EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER																	
RAILROAD PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	1A	1B	1C	1D	1E	1F	1G	1H	1I	1J	1K	2	3	4	5	CLEAR TO NORMAL SEQUENCE	
CHANGE TO RAILROAD PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	1B	2	1D	2	1F	2	1H	2	1I	2	1K	2	3	4	5	△	
WILLIAMS STREET ALL SIGNALS	N/B	R	R	Y	R	R	R	R	Y	R	R	R	R	R	R	△	
WILLIAMS STREET END MAST ARM AND FAR LEFT SIGNALS	S/B	Y	R	Y	R	R	R	R	Y	R	R	R	R	R	R	△	
WILLIAMS STREET NEAR RIGHT SIGNAL	S/B	Y	R	Y	R	R	R	R	Y	R	R	R	R	R	R	△	
MARGARET STREET END MAST ARM AND FAR LEFT SIGNALS	E/B	R	R	R	Y	R	Y	R	R	Y	R	R	R	R	R	△	
MARGARET STREET NEAR RIGHT SIGNAL	E/B	R	R	R	Y	R	Y	R	R	Y	R	R	R	R	R	△	
MARGARET STREET END MAST ARM AND FAR LEFT SIGNALS	W/B	R	R	R	R	R	G	G	R	R	G	G	Y	R	R	△	
MARGARET STREET NEAR RIGHT SIGNAL	W/B	R	R	R	R	R	G	G	R	R	G	G	Y	R	R	△	
PEDESTRIAN SIGNALS CROSSING MARGARET ST. ON EAST SIDE OF WILLIAMS ST.	DW	DW	FL DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	△	
PEDESTRIAN SIGNALS CROSSING MARGARET ST. ON WEST SIDE OF WILLIAMS ST.	FL DW	DW	FL DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	△	
PEDESTRIAN SIGNALS CROSSING WILLIAMS ST. ON NORTH SIDE OF MARGARET ST.	DW	DW	DW	DW	DW	FL DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	△	
PEDESTRIAN SIGNALS CROSSING WILLIAMS ST. ON SOUTH SIDE OF MARGARET ST.	DW	DW	DW	DW	FL DW	DW	FL DW	DW	DW	DW	DW	DW	DW	DW	DW	△	

HOLD

△ RAILROAD PREEMPTION SEQUENCE SHALL PROVIDE THE PROPER CLEARANCE INTERVAL TO RESUME THE NORMAL SEQUENCE OF OPERATION OR PROPER CLEARANCE INTERVAL TO DISPLAY AN EMERGENCY VEHICLE INTERVAL (IF APPLICABLE) AFTER RAILROAD PREEMPTION INTERVAL 5 IS TERMINATED

⊙ RAILROAD PREEMPTION SEQUENCE SHALL CYCLE BETWEEN PHASES 2+6 AND 4+6 UNTIL RAILROAD PREEMPTION IS TERMINATED

EMERGENCY VEHICLE PREEMPTION SEQUENCE OF SEPERATION

	PREEMPTOR NUMBER 3		PREEMPTOR NUMBER 4																		
CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER																					
EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER																					
RAILROAD PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	1A	1B	1C	1D	1E	1F	1G	1H	1J	1K	1L	1M	1N	1H	1J	1K	1L	2	3	CLEAR TO NORMAL SEQUENCE	
WILLIAMS STREET ALL SIGNALS	N/B	R	R	R	R	R	G	G	Y	R	R	R	R	R	R	R	R	R	R	R	◇
WILLIAMS STREET END MAST ARM AND FAR LEFT SIGNALS	S/B	G	G	G	Y	R	G	G	Y	R	R	R	R	R	R	R	R	R	R	R	◇
WILLIAMS STREET NEAR RIGHT SIGNAL	S/B	G	G	G	Y	R	G	G	Y	R	R	R	R	R	R	R	R	R	R	R	◇
MARGARET STREET END MAST ARM AND FAR LEFT SIGNALS	E/B	R	R	R	R	R	R	R	R	R	G	Y	R	G	Y	R	G	R	G	R	◇
MARGARET STREET NEAR RIGHT SIGNAL	E/B	R	R	R	R	R	R	R	R	R	G	Y	R	G	Y	R	G	R	G	R	◇
MARGARET STREET END MAST ARM AND FAR LEFT SIGNALS	W/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	Y	R	◇
MARGARET STREET NEAR RIGHT SIGNAL	W/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	Y	R	◇
PEDESTRIAN SIGNALS CROSSING MARGARET ST. ON EAST SIDE OF WILLIAMS ST.	DW	DW	DW	DW	FL DW	FL DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	◇
PEDESTRIAN SIGNALS CROSSING MARGARET ST. ON WEST SIDE OF WILLIAMS ST.	FL DW	DW	FL DW	DW	DW	FL DW	FL DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	◇
PEDESTRIAN SIGNALS CROSSING WILLIAMS ST. ON NORTH SIDE OF MARGARET ST.	DW	DW	DW	DW	FL DW	DW	DW	DW	DW	FL DW	DW	DW	FL DW	FL DW	DW	DW	FL DW	DW	DW	DW	◇
PEDESTRIAN SIGNALS CROSSING WILLIAMS ST. ON SOUTH SIDE OF MARGARET ST.	DW	DW	DW	DW	FL DW	DW	FL DW	DW	DW	FL DW	DW	DW	FL DW	FL DW	DW	DW	FL DW	DW	DW	DW	◇

◇ EMERGENCY VEHICLE SEQUENCE SHALL PROVIDE THE PROPER CLEARANCE INTERVAL TO RESUME THE NORMAL SEQUENCE OF OPERATION ON PROPOER CLEARANCE INTERVAL TO DISPLAY A DIFFERENT EMERGENCY INTERVAL AFTER EMERGENCY VEHICLE 2 IS TERMINATED.

FIRE STATION PUSH BUTTON SHALL CALL EVP SEQUENCE 2, PREMPTOR 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.

VILLAGE OF THORNTON
LOCATION NO. 125

* 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 OPERATIONS
WILLIAMS STREET & MARGARET STREET

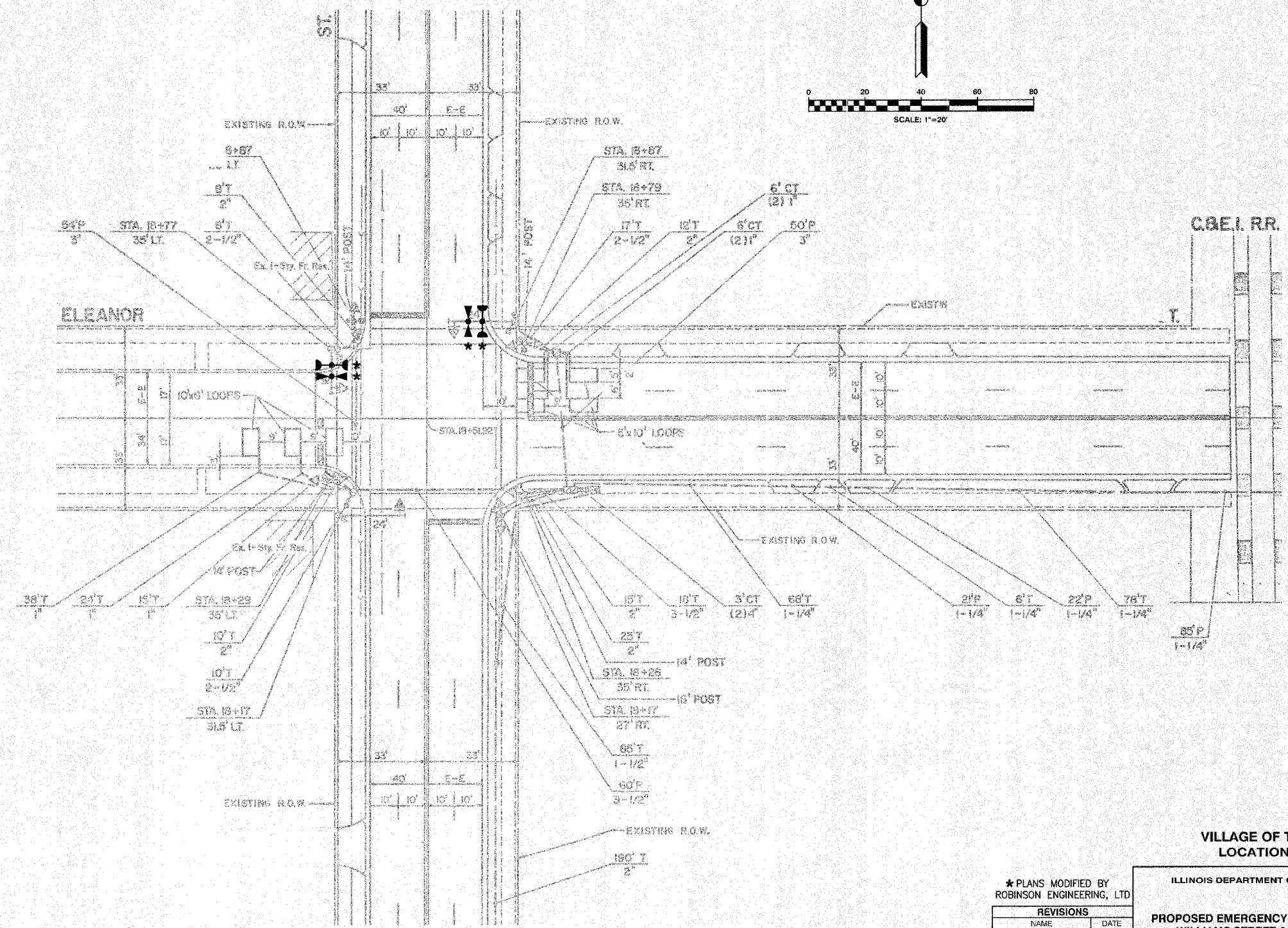
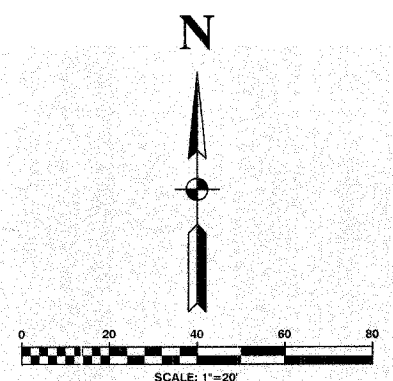
SCALE: VERT. _____ DRAWN BY _____
HORIZ. _____ CHECKED BY _____
DATE _____

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
08-00146-00-TL	COOK	273	282
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. FIRE STATION PUSH BUTTON SHALL CALL EVP SEQUENCE 2, PREEMPTOR 3.

VILLAGE OF THORNTON
LOCATION NO. 126

* PLANS MODIFIED BY
ROBINSON ENGINEERING, LTD

ILLINOIS DEPARTMENT OF TRANSPORTATION

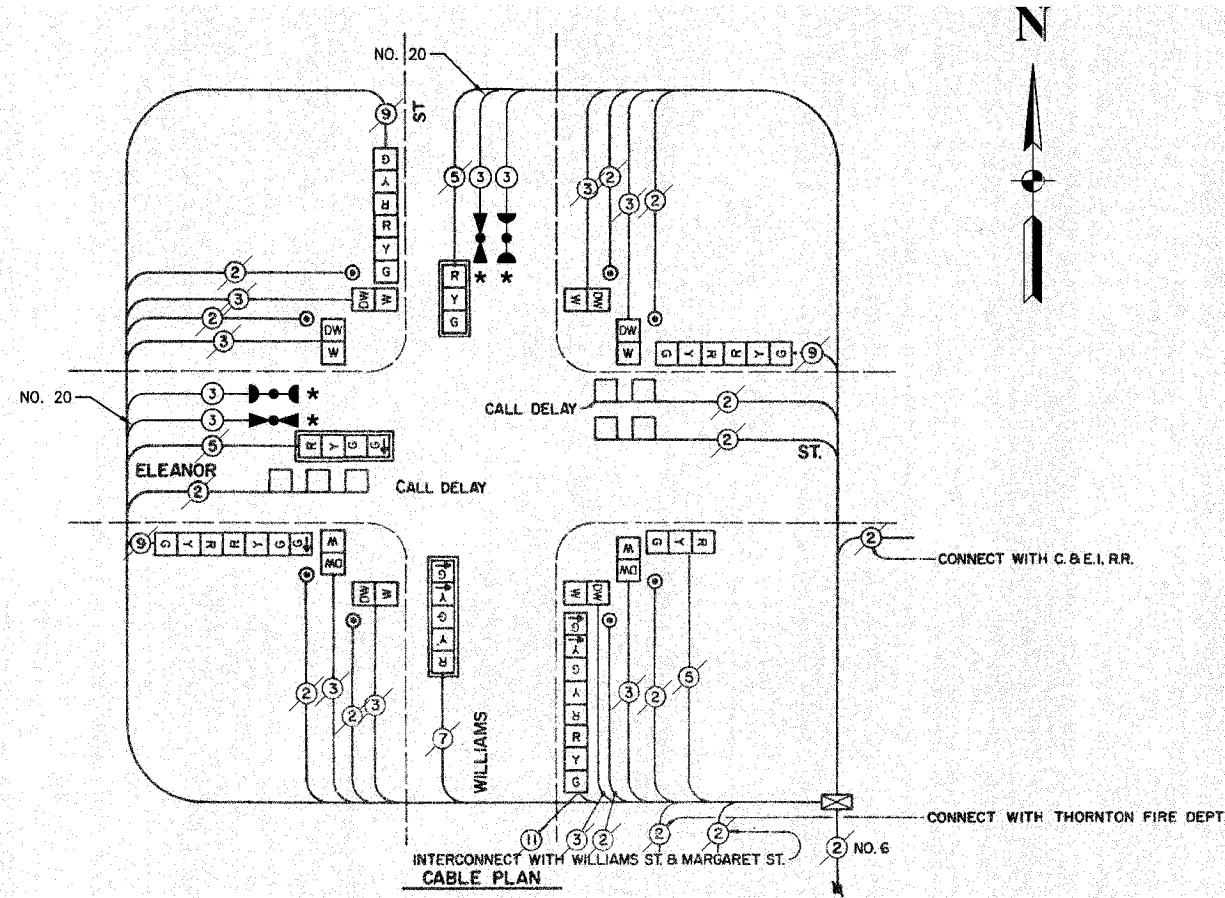
PROPOSED EMERGENCY VEHICLE PREEMPTION
WILLIAMS STREET & ELEANOR STREET

REVISIONS	
NAME	DATE
* ADDED EV PREEMPTION	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	263
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	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 "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	348
LIGHT DETECTOR	EACH	2
LIGHT DETECTOR AMPLIFIER	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.

2. FIRE STATION PUSH BUTTON SHALL CALL E.V.P. SEQUENCE 2, PREEMPTOR 3.

* 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 WILLIAMS STREET & ELEANOR STREET

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

CONTRACT NO. 63003

SEQUENCE OF OPERATION

MOVEMENT	1 + 6			2 + 6				4 + 8					
	1	2	3	4	5	6A	6B	7	8	9A	9B		
CHANGE TO	∅	∅	2+6			4+8				1+6	2+6		
WILLIAMS STREET ALL SIGNALS	N/B	R	R	R	G	G	Y	R	R	R	R	R	
WILLIAMS STREET END MAST ARM AND FAR LEFT SIGNALS	S/B	G	G	G	G	G	Y	R	R	R	R	R	
WILLIAMS STREET NEAR RIGHT SIGNAL	S/B	G	G	G	G	G	Y	R	R	R	R	R	
ELEANOR STREET ALL SIGNALS	E/B	R	R	R	R	R	R	R	G	G	Y	R	
ELEANOR STREET END MAST ARM AND FAR LEFT SIGNALS	W/B	R	R	R	R	R	R	R	G	G	Y	R	
ELEANOR STREET NEAR RIGHT SIGNAL	W/B	R	R	R	R	R	R	R	G	G	Y	R	
PEDESTRIAN SIGNALS CROSSING ELEANOR ST. ON EAST SIDE OF WILLIAMS ST.		DW	DW	DW	*W	**FL DW	DW	DW	DW	DW	DW	DW	
PEDESTRIAN SIGNALS CROSSING ELEANOR ST. ON WEST SIDE OF WILLIAMS ST.		*W	**FL DW	DW	*W	**FL DW	DW	DW	DW	DW	DW	DW	
PEDESTRIAN SIGNALS CROSSING WILLIAMS ST. ON NORTH SIDE OF ELEANOR ST.		DW	DW	DW	DW	DW	DW	DW	**FL DW	DW	DW	DW	
PEDESTRIAN SIGNALS CROSSING WILLIAMS ST. ON SOUTH SIDE OF ELEANOR ST.		DW	DW	DW	DW	DW	DW	DW	**FL DW	DW	DW	DW	

* TO APPEAR ONLY UPON PUSHBUTTON ACTIVATION

** FLASHING "DON'T WALK" IS TO TERMINATE AT THE COMPLETION OF THE PEDESTRIAN INTERVAL CLEARANCE.

∅ THIS "WALK" OR FLASHING "DON'T WALK" INTERVAL MAY FINISH TIMING IN THE BIDIRECTIONAL STRAIGHT THROUGH MOVEMENT IF THE LEFT ARROW TIME IS NOT SUFFICIENT TO COMPLETE "WALK" OR FLASHING "DON'T WALK" INTERVALS.

W = "WALK"

FL = FLASHING "DON'T WALK"

DW = "DON'T WALK"

PHASE 2+6 SHALL BE PLACED ON RECALL

RAILROAD PREEMPTION SEQUENCE OF OPERATION

SEQUENCE OF OPERATION INTERVAL NUMBER	1	4	7	PREEMPTOR NUMBER 3	PREEMPTOR NUMBER 2								
CHANGE FROM EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	2												
RAILROAD PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	1A	1B	1C	1D	1E	1F	1G	1H	2	3	4	5	
CHANGE TO RAILROAD PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	1B	2	1D	2	1F	2	1H	2	3	4	5	TO NORMAL SEQUENCE	
WILLIAMS STREET ALL SIGNALS	N/B	R	R	Y	R	R	R	Y	R	R	R	G	∆
WILLIAMS STREET END MAST ARM AND FAR LEFT SIGNALS	S/B	R	Y	R	R	R	R	R	R	R	R	G	∆
WILLIAMS STREET NEAR RIGHT SIGNAL	S/B	Y	R	R	R	R	R	R	R	R	R	G	∆
ELEANOR STREET ALL SIGNALS	E/B	R	R	R	R	R	R	R	R	R	R	R	∆
ELEANOR STREET END MAST ARM AND FAR LEFT SIGNALS	W/B	R	R	R	R	R	R	R	G	Y	R	R	∆
ELEANOR STREET NEAR RIGHT SIGNAL	W/B	R	R	R	R	R	R	R	G	Y	R	R	∆
PEDESTRIAN SIGNALS CROSSING ELEANOR ST. ON EAST SIDE OF WILLIAMS ST.	DW	DW	FL DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	∆
PEDESTRIAN SIGNALS CROSSING ELEANOR ST. ON WEST SIDE OF WILLIAMS ST.	FL DW	DW	FL DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	∆
PEDESTRIAN SIGNALS CROSSING WILLIAMS ST. ON NORTH SIDE OF ELEANOR ST.	DW	DW	DW	DW	FL DW	DW	DW	DW	DW	DW	DW	DW	∆
PEDESTRIAN SIGNALS CROSSING WILLIAMS ST. ON SOUTH SIDE OF ELEANOR ST.	DW	DW	DW	DW	FL DW	DW	DW	DW	DW	DW	DW	DW	∆

∆ RAILROAD PREEMPTION SEQUENCE SHALL PROVIDE THE PROPER CLEARANCE INTERVAL TO RESUME THE NORMAL SEQUENCE OF OPERATION OR PROPER CLEARANCE INTERVAL TO DISPLAY AN EMERGENCY VEHICLE INTERVAL (IF APPLICABLE) AFTER RAILROAD PREEMPTION INTERVAL 5 IS TERMINATED

⊙ RAILROAD PREEMPTION SEQUENCE SHALL CYCLE BETWEEN PHASES 2+6 AND 4+6 UNTIL RAILROAD PREEMPTION IS TERMINATED

EMERGENCY VEHICLE PREEMPTION SEQUENCE OF SEPERATION

SEQUENCE OF OPERATION INTERVAL NUMBER	1	4	7	PREEMPTOR NUMBER 3								
CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER	2											
EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	1A	1B	1C	1D	1E	1F	1G	1H	1J	2	CLEAR TO NORMAL SEQUENCE	
RAILROAD PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	1B	2	1D	2	1F	2	1H	2	2			
WILLIAMS STREET ALL SIGNALS	N/B	R	R	R	G	Y	R	Y	R	R	∅	
WILLIAMS STREET END MAST ARM AND FAR LEFT SIGNALS	S/B	G	Y	R	G	Y	R	R	R	R	∅	
WILLIAMS STREET NEAR RIGHT SIGNAL	S/B	G	Y	R	G	Y	R	R	R	R	∅	
ELEANOR STREET ALL SIGNALS	E/B	R	R	R	R	R	R	R	G	Y	R	∅
ELEANOR STREET END MAST ARM AND FAR LEFT SIGNALS	W/B	R	R	R	R	R	R	R	G	Y	R	∅
ELEANOR STREET NEAR RIGHT SIGNAL	W/B	R	R	R	R	R	R	R	G	Y	R	∅
PEDESTRIAN SIGNALS CROSSING ELEANOR ST. ON EAST SIDE OF WILLIAMS ST.	DW	DW	FL DW	DW	DW	DW	DW	DW	DW	DW	DW	∅
PEDESTRIAN SIGNALS CROSSING ELEANOR ST. ON WEST SIDE OF WILLIAMS ST.	FL DW	DW	FL DW	DW	DW	DW	DW	DW	DW	DW	DW	∅
PEDESTRIAN SIGNALS CROSSING WILLIAMS ST. ON NORTH SIDE OF ELEANOR ST.	DW	DW	DW	DW	FL DW	DW	DW	DW	DW	DW	DW	∅
PEDESTRIAN SIGNALS CROSSING WILLIAMS ST. ON SOUTH SIDE OF ELEANOR ST.	DW	DW	DW	DW	FL DW	DW	DW	DW	DW	DW	DW	∅

∅ EMERGENCY VEHICLE SEQUENCE SHALL PROVIDE THE PROPER CLEARANCE INTERVAL TO RESUME THE NORMAL SEQUENCE OF OPERATION ON PROPER CLEARANCE INTERVAL TO DISPLAY A DIFFERENT EMERGENCY INTERVAL AFTER EMERGENCY VEHICLE 2 IS TERMINATED.

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 THORNTON
LOCATION NO. 126

* 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 OPERATIONS
WILLIAM STREET AND ELEANOR STREET

SCALE: VERT. _____
HORIZ. _____

DATE _____ DRAWN BY MRS
CHECKED BY PB

P.A. ETC.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00146-00-TL	COOK	273	285
STA.		TO STA.		
FED. ROAD DIST. NO.	KLMOS	FED. AID PROJECT		

CONTRACT NO. 63003

RAILROAD PREEMPTION SEQUENCE OF OPERATION

CHANGE FROM EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	1		4		7		PREEMPTOR NUMBER 3		PREEMPTOR NUMBER 4		PREEMPTOR NUMBER 2				
CHANGE FROM EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER							2		3						
RAILROAD PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	1A	1B	1C	1D	1E	1F	1G	1H	1J	1K	2	3	4	5	CLEAR TO NORMAL SEQUENCE
CHANGE TO RAILROAD PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	1B	2	1D	2	1F	2	1H	2	1K	2	3	4	5	△	
WILLIAMS STREET ALL SIGNALS	N/B	R	R	Y	R	R	R	Y	R	R	R	R	R	G	△
WILLIAMS STREET END MAST ARM AND FAR LEFT SIGNALS	S/B	Y	R	Y	R	R	R	Y	R	R	R	R	R	G	△
WILLIAMS STREET NEAR RIGHT SIGNAL	S/B	Y	R	Y	R	R	R	Y	R	R	R	R	R	G	△
ELEANOR STREET ALL SIGNALS	E/B	R	R	R	R	Y	R	R	R	Y	R	R	R	R	△
ELEANOR STREET END MAST ARM AND FAR LEFT SIGNALS	W/B	R	R	R	R	G	G	R	R	G	G	←G	Y	R	△
ELEANOR STREET NEAR RIGHT SIGNAL	W/B	R	R	R	R	G	G	R	R	G	G	G	Y	R	△
PEDESTRIAN SIGNALS CROSSING ELEANOR ST. ON EAST SIDE OF WILLIAMS ST.	DW	DW	FL DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	△
PEDESTRIAN SIGNALS CROSSING ELEANOR ST. ON WEST SIDE OF WILLIAMS ST.	FL DW	DW	FL DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	△
PEDESTRIAN SIGNALS CROSSING WILLIAMS ST. ON NORTH SIDE OF ELEANOR ST.	DW	DW	DW	DW	FL DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	△
PEDESTRIAN SIGNALS CROSSING WILLIAMS ST. ON SOUTH SIDE OF ELEANOR ST.	DW	DW	DW	DW	FL DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	△

- △ RAILROAD PREEMPTION SEQUENCE SHALL PROVIDE THE PROPER CLEARANCE INTERVAL TO RESUME THE NORMAL SEQUENCE OF OPERATION OR PROPER CLEARANCE INTERVAL TO DISPLAY AN EMERGENCY VEHICLE INTERVAL (IF APPLICABLE) AFTER RAILROAD PREEMPTION INTERVAL 5 IS TERMINATED
- △ RAILROAD PREEMPTION SEQUENCE SHALL CYCLE BETWEEN PHASES 2+6 AND 4+6 UNTIL RAILROAD PREEMPTION IS TERMINATED

HOLD

EMERGENCY VEHICLE PREEMPTION SEQUENCE OF SEPERATION

CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER	1		4		7		PREEMPTOR NUMBER 3		PREEMPTOR NUMBER 4							
EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER							2		3							
RAILROAD PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	1A	1B	1C	1D	1E	1F	1G	1H	1J	1K	1L	1M	1N	CLEAR TO NORMAL SEQUENCE		
WILLIAMS STREET ALL SIGNALS	N/B	R	R	R	R	R	G	G	Y	R	R	R	R	G	R	◇
WILLIAMS STREET END MAST ARM AND FAR LEFT SIGNALS	S/B	G ←G	G ←Y	G ←G	Y	R	G	G	Y	R	R	R	R	G	R	◇
WILLIAMS STREET NEAR RIGHT SIGNAL	S/B	G	G	G	Y	R	G	G	Y	R	R	R	R	G	R	◇
ELEANOR STREET ALL SIGNALS	E/B	R	R	R	R	R	R	R	R	R	G	Y	R	G	R	◇
ELEANOR STREET END MAST ARM AND FAR LEFT SIGNALS	W/B	R	R	R	R	R	R	R	R	R	G	Y	R	G	R	◇
ELEANOR STREET NEAR RIGHT SIGNAL	W/B	R	R	R	R	R	R	R	R	R	G	Y	R	G	R	◇
PEDESTRIAN SIGNALS CROSSING ELEANOR ST. ON EAST SIDE OF WILLIAMS ST.	DW	DW	DW	DW	DW	FL DW	FL DW	DW	DW	DW	DW	DW	DW	DW	DW	◇
PEDESTRIAN SIGNALS CROSSING ELEANOR ST. ON WEST SIDE OF WILLIAMS ST.	FL DW	DW	FL DW	DW	DW	FL DW	FL DW	DW	DW	DW	DW	DW	DW	DW	DW	◇
PEDESTRIAN SIGNALS CROSSING WILLIAMS ST. ON NORTH SIDE OF ELEANOR ST.	DW	DW	DW	DW	FL DW	DW	DW	DW	DW	FL DW	DW	DW	FL DW	DW	DW	◇
PEDESTRIAN SIGNALS CROSSING WILLIAMS ST. ON SOUTH SIDE OF ELEANOR ST.	DW	DW	DW	DW	FL DW	DW	DW	DW	DW	FL DW	DW	DW	FL DW	DW	DW	◇

- ◇ EMERGENCY VEHICLE SEQUENCE SHALL PROVIDE THE PROPER CLEARANCE INTERVAL TO RESUME THE NORMAL SEQUENCE OF OPERATION ON PROPOER CLEARANCE INTERVAL TO DISPLAY A DIFFERENT EMERGENCY INTERVAL AFTER EMERGENCY VEHICLE 2 IS TERMINATED.
- FIRE STATION PUSH BUTTON SHALL CALL EVP SEQUENCE 2, PREEMPTOR 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.

VILLAGE OF THORNTON
 LOCATION NO. 126

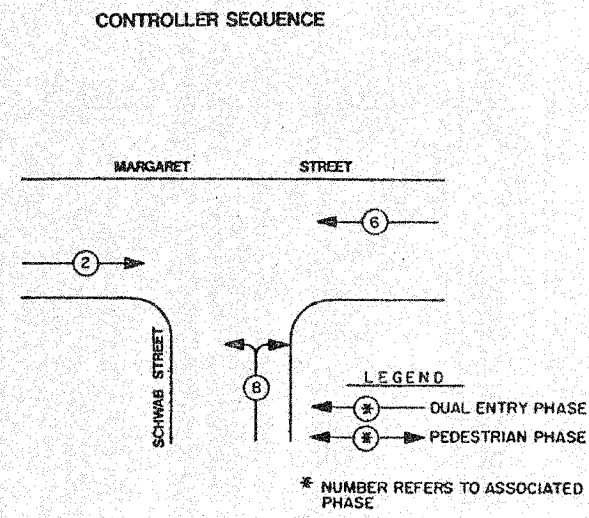
* PLANS MODIFIED BY ROBINSON ENGINEERING, LTD		ILLINOIS DEPARTMENT OF TRANSPORTATION																	
<table border="1"> <thead> <tr> <th colspan="2">REVISIONS</th> </tr> <tr> <th>NAME</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>ADDED EV PREEMPTION</td> <td>01/02/08</td> </tr> <tr> <td> </td> <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> </tbody> </table>		REVISIONS		NAME	DATE	ADDED EV PREEMPTION	01/02/08											PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATIONS WILLIAM STREET AND ELEANOR STREET	
REVISIONS																			
NAME	DATE																		
ADDED EV PREEMPTION	01/02/08																		
SCALE: VERT. HORIZ.	DATE	DRAWN BY MRS	CHECKED BY PB																

F. A. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00146-00-TL	COOK	273	267
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

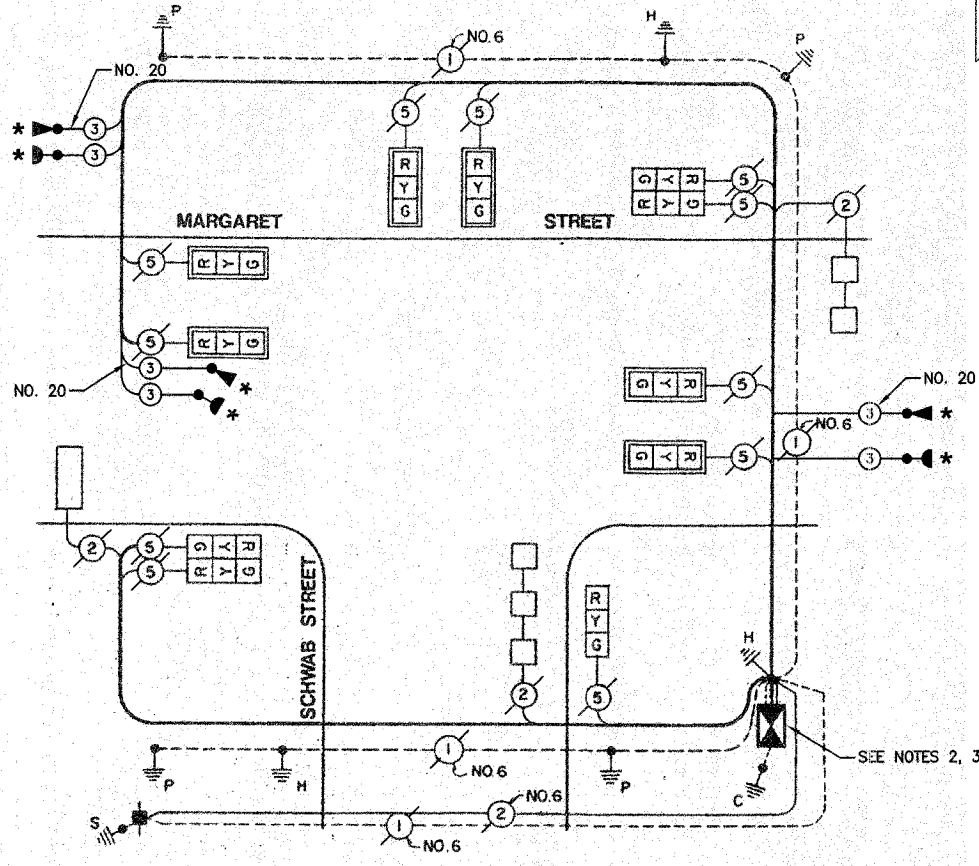
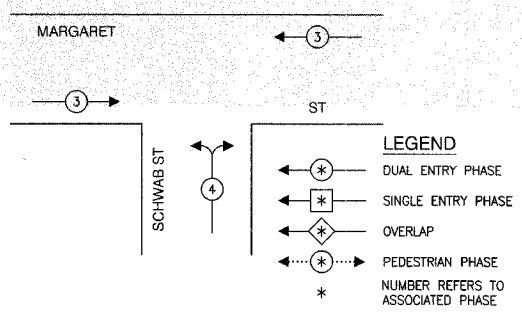
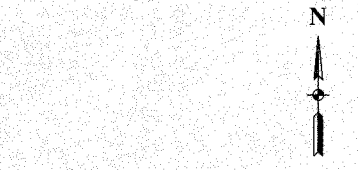
CONTRACT NO. 63003

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



SCHEDULE OF QUANTITIES

PAY ITEM	UNIT	QUANTITY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	723
LIGHT DETECTOR	EACH	2
LIGHT DETECTOR AMPLIFIER	EACH	1
ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED	FOOT	723

- 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.
 - 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 SUPPLIED CABLE PLAN.
 - EXISTING CONDUIT ROUTING MAY HAVE CHANGED WHEN THE TRAFFIC SIGNAL CONTROLLER CABINET WAS MOVED. CONDUIT ROUTING AND SIZES TO BE VERIFIED IN FIELD.

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

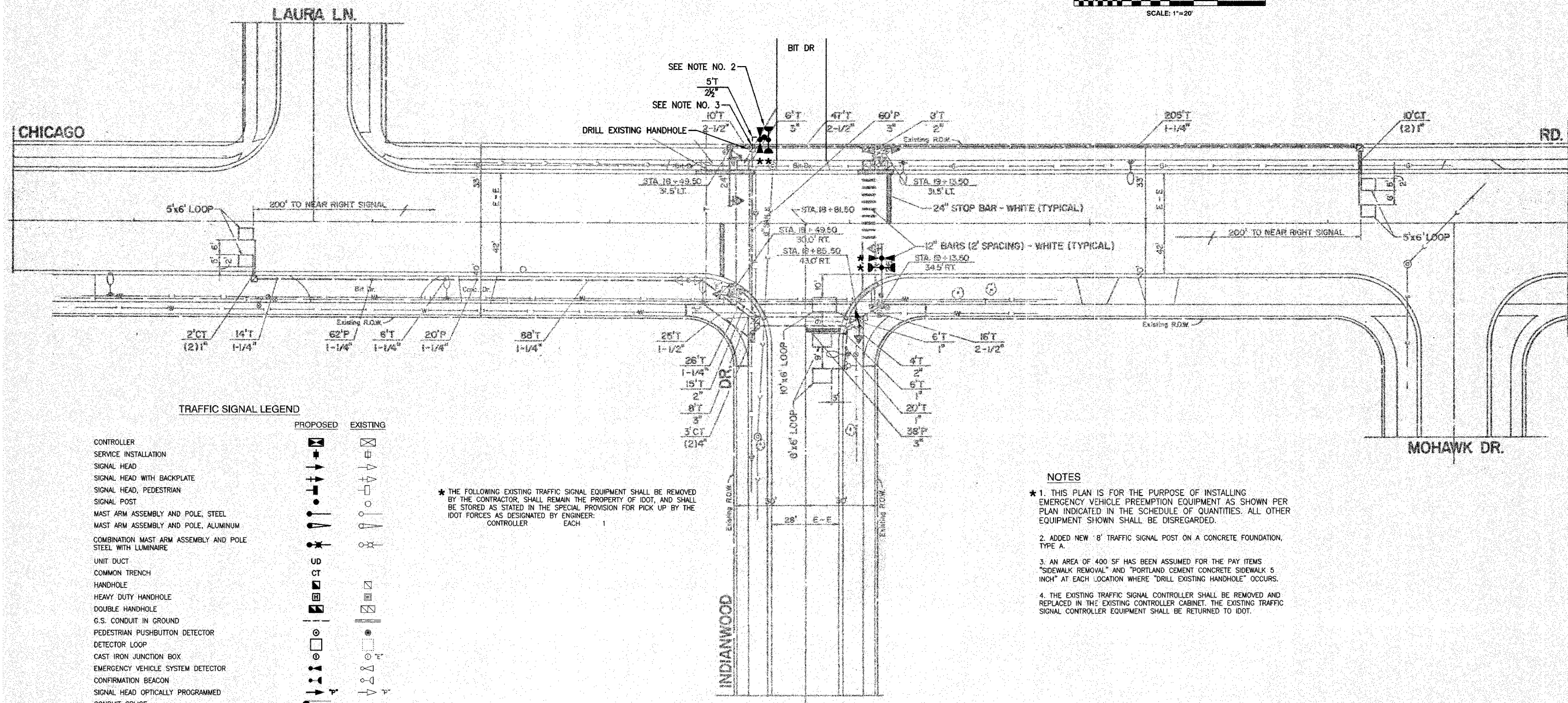
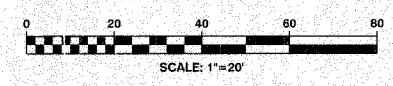
MARGARET STREET & SCHWAB STREET

SCALE: VERT. _____
HORIZ. _____

DATE _____ DRAWN BY _____
CHECKED BY _____

F. A. DIST.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00148-00-TL	COOK	273	268
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"		

* 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

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. ADDED NEW '8' TRAFFIC SIGNAL POST ON A CONCRETE FOUNDATION, TYPE A.
3. AN AREA OF 400 SF HAS BEEN ASSUMED FOR THE PAY ITEMS "SIDEWALK REMOVAL" AND "PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH" AT EACH LOCATION WHERE "DRILL EXISTING HANDHOLE" OCCURS.
4. THE EXISTING TRAFFIC SIGNAL CONTROLLER SHALL BE REMOVED AND REPLACED IN THE EXISTING CONTROLLER CABINET. THE EXISTING TRAFFIC SIGNAL CONTROLLER EQUIPMENT SHALL BE RETURNED TO IDOT.

VILLAGE OF THORNTON
LOCATION NO. 128

* PLANS MODIFIED BY
ROBINSON ENGINEERING, LTD

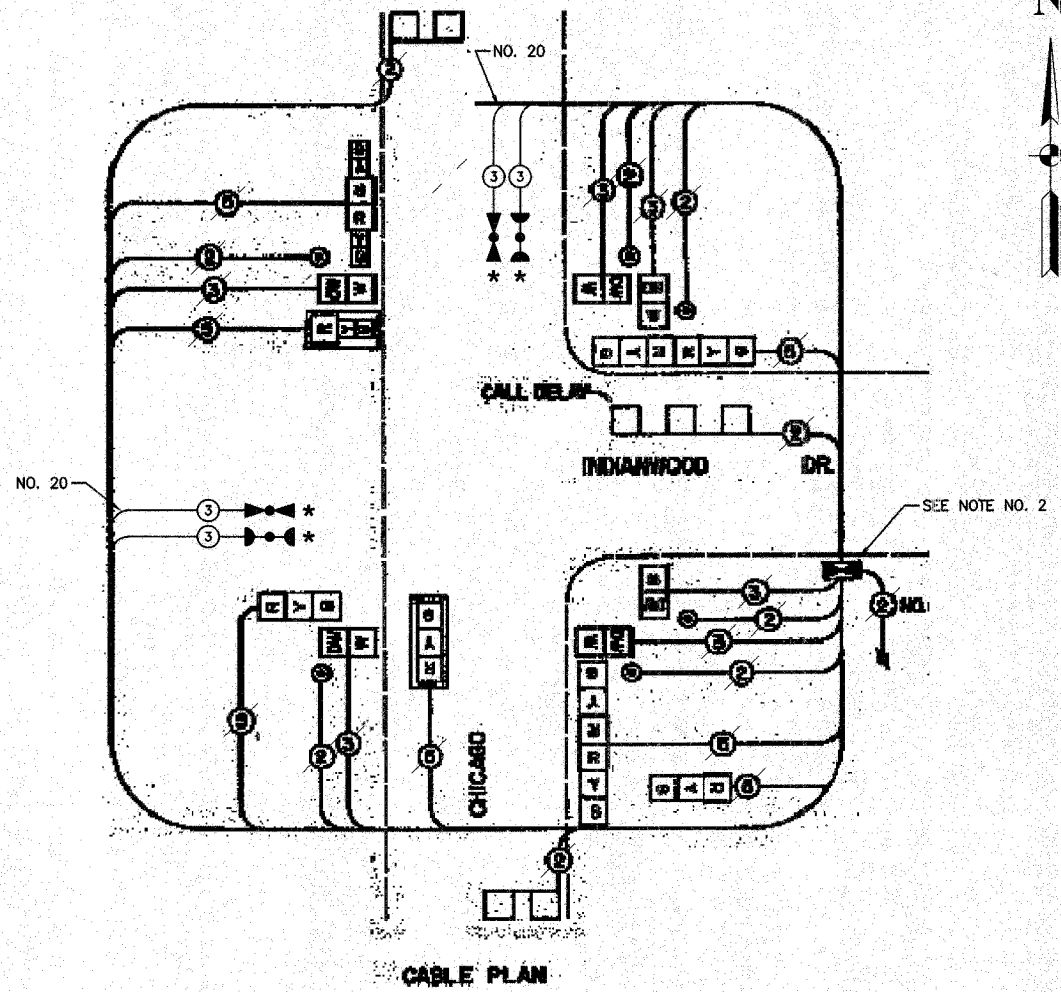
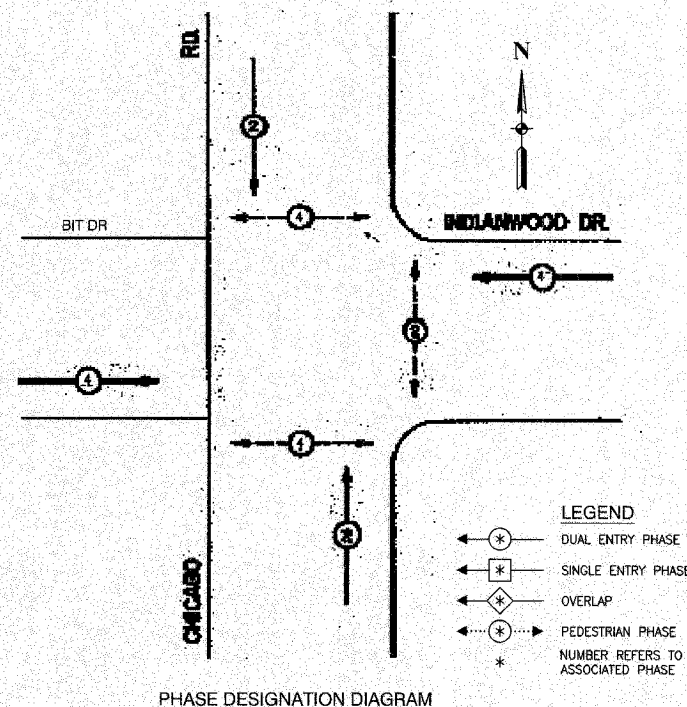
REVISIONS	
NAME	DATE
* ADDED EV PREEMPTION	01/02/08
ADDED NEW 18' POST	
ADDED NEW CONTROLLER	

ILLINOIS DEPARTMENT OF TRANSPORTATION
**PROPOSED EMERGENCY VEHICLE PREEMPTION
CHICAGO ROAD & INDIANWOOD DRIVE**

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

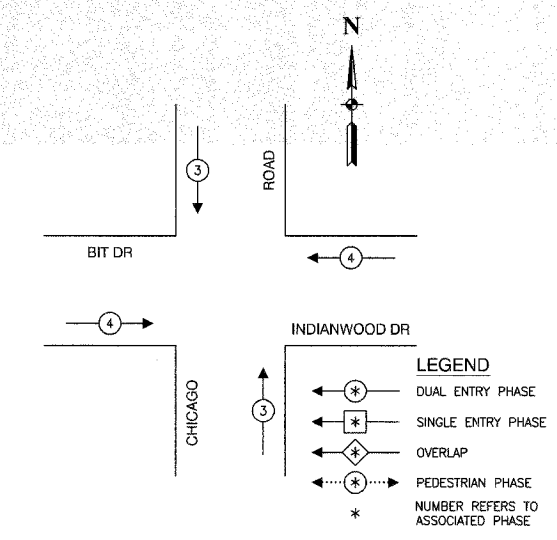
F. A. SHEET NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00146-00-TL	COOK	273	269
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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



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

SCHEDULE OF QUANTITIES		
PAY ITEM	UNIT	QUANTITY
PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	400
SIDEWALK REMOVAL	SQ FT	400
CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	5
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	228
TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	4
DRILL EXISTING HANDHOLE	EACH	1
LIGHT DETECTOR	EACH	2
LIGHT DETECTOR AMPLIFIER	EACH	1
RELOCATE EXISTING SIGNAL HEAD	EACH	1
RELOCATE EXISTING PEDESTRIAN SIGNAL HEAD	EACH	1
RELOCATE EXISTING PEDESTRIAN PUSH-BUTTON	EACH	1
MODIFY EXISTING CONTROLLER	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	228

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. THE EXISTING TRAFFIC SIGNAL CONTROLLER SHALL BE REMOVED AND REPLACED IN THE EXISTING CONTROLLER CABINET. THE EXISTING TRAFFIC SIGNAL CONTROLLER EQUIPMENT SHALL BE RETURNED TO IDOT.

* PLANS MODIFIED BY ROBINSON ENGINEERING, LTD

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

VILLAGE OF THORNTON
LOCATION NO. 128

ILLINOIS DEPARTMENT OF TRANSPORTATION

PROPOSED EMERGENCY VEHICLE PREEMPTION CABLE PLAN, PHASE DESIGNATION DIAGRAM & SCHEDULE OF QUANTITIES
CHICAGO ROAD & INDIANWOOD DRIVE

SCALE: VERT. HORIZ. DATE

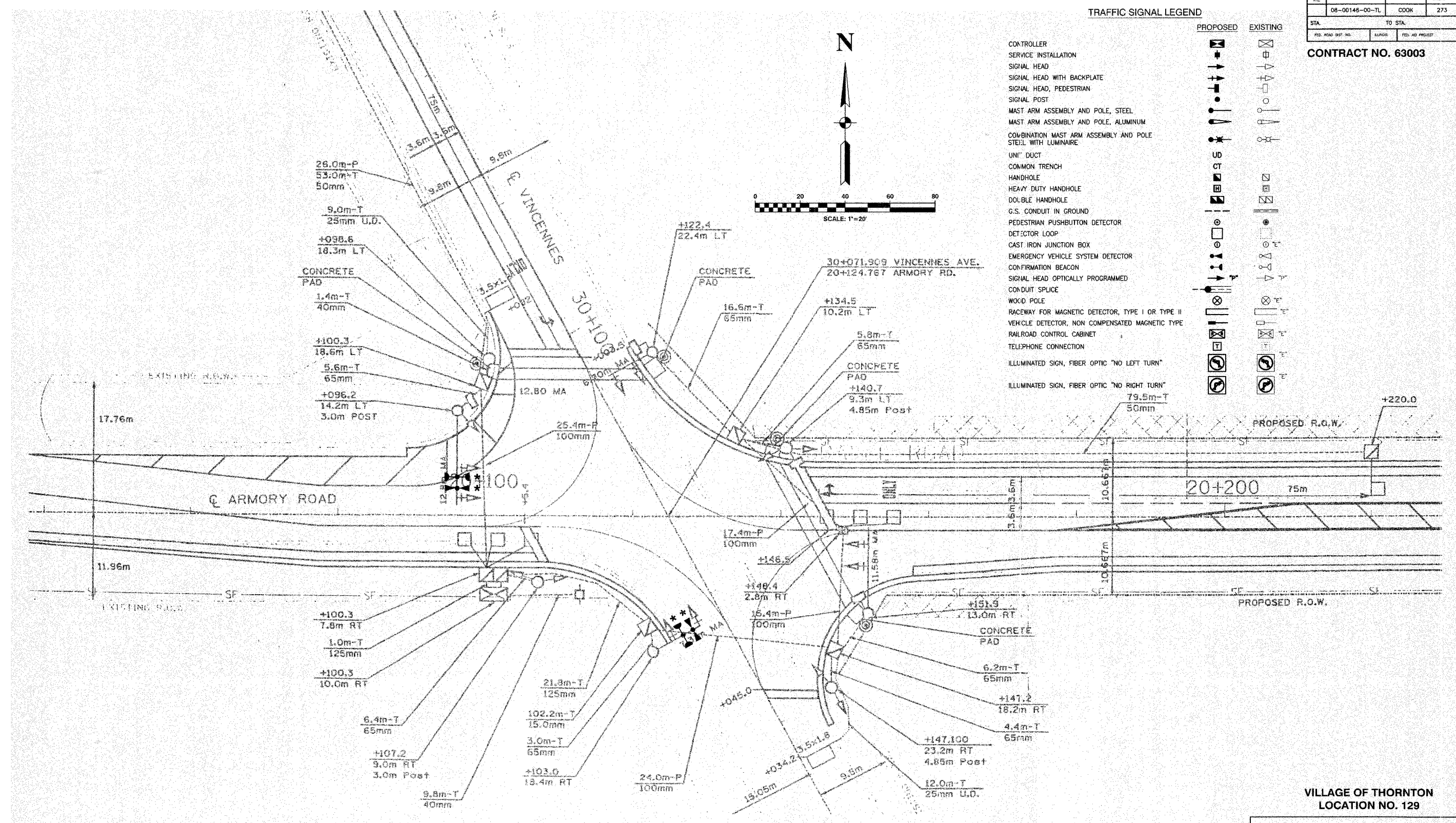
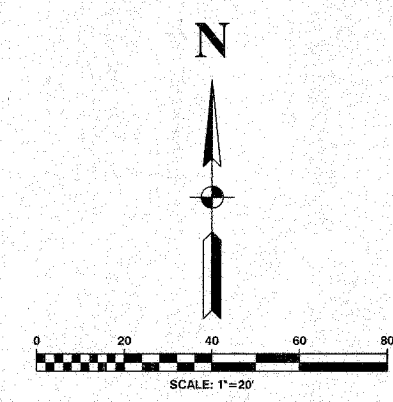
DRAWN BY CHECKED BY

F. A. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00148-00-TL	COOK	273	270
STA.	TO STA.			
FED. ROAD DIST. NO.	ALIGNED	FED. AID PROJECT		

CONTRACT NO. 63003

TRAFFIC SIGNAL LEGEND

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

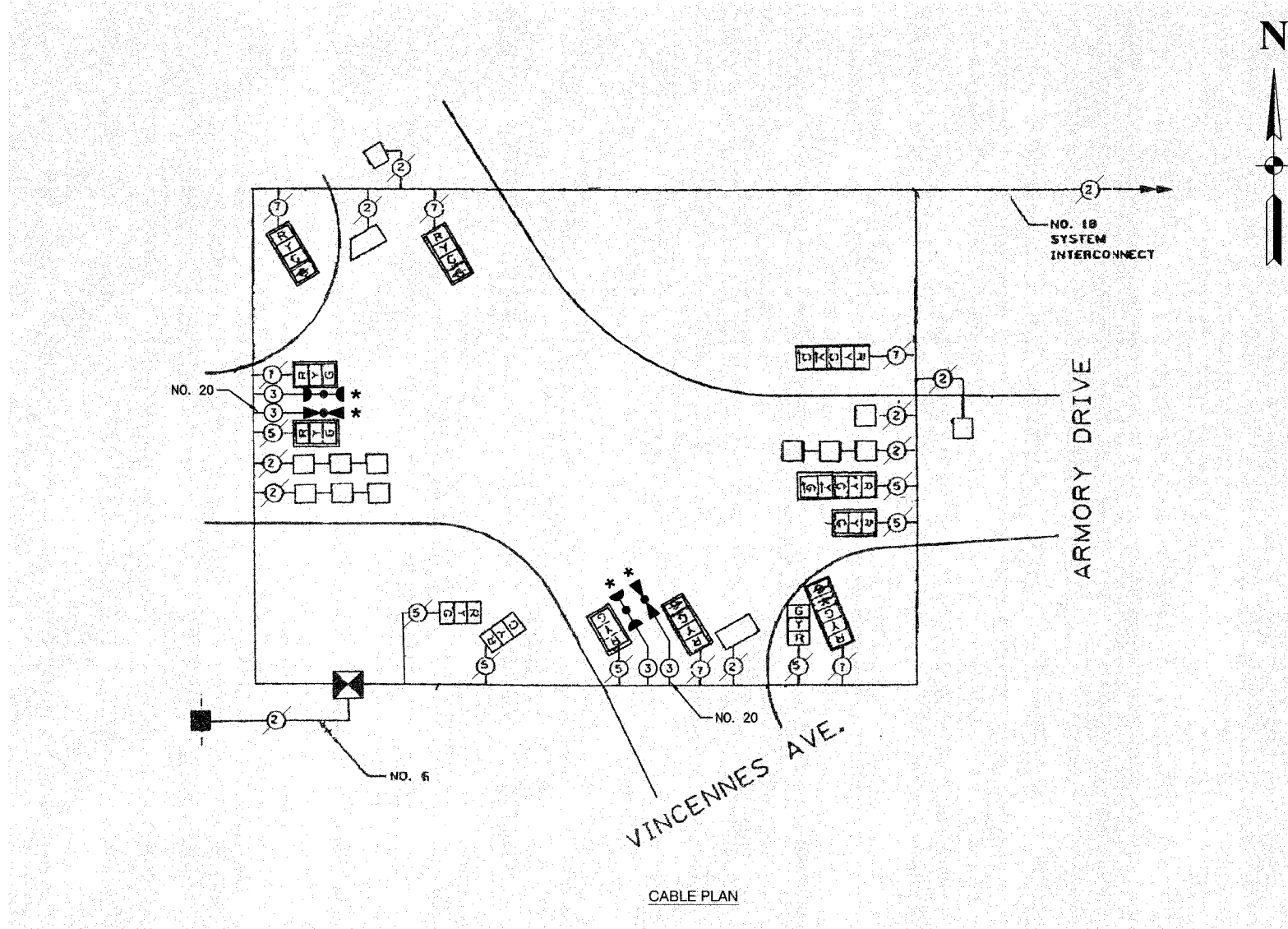
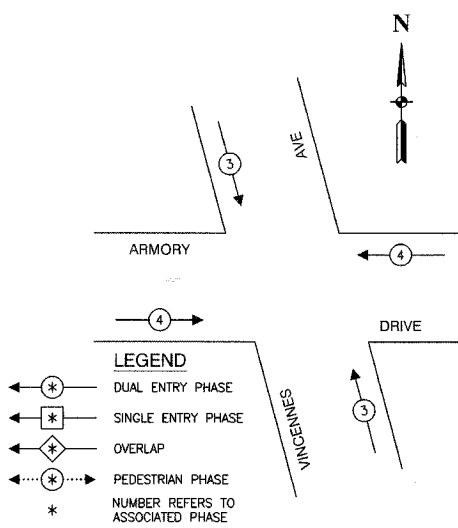
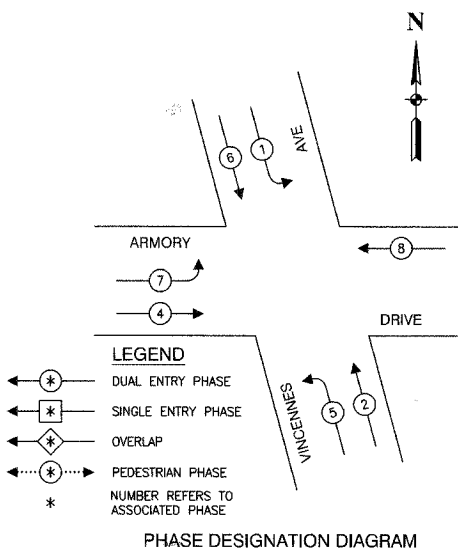
ILLINOIS DEPARTMENT OF TRANSPORTATION
**PROPOSED EMERGENCY VEHICLE PREEMPTION
 VINCENNES ROAD & ARMORY (170TH STREET) DRIVE**

SCALE: VERT. _____
 HORIZ. _____

DATE _____ DRAWN BY _____
 CHECKED BY _____

F. A. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00146-00-TL	COOK	273	271
STA.	TO STA.			
FED. ROAD DIST. NO.	ALWAYS	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]	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	343
LIGHT DETECTOR	EACH	2
LIGHT DETECTOR AMPLIFIER	EACH	1
ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED	FOOT	343

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

VILLAGE OF THORNTON
LOCATION NO. 129

ILLINOIS DEPARTMENT OF TRANSPORTATION

PROPOSED EMERGENCY VEHICLE PREEMPTION CABLE PLAN, PHASE DESIGNATION DIAGRAM & SCHEDULE OF QUANTITIES
VINCENNES ROAD & ARMORY (170TH STREET) DRIVE

SCALE: VERT. _____
 HORIZ. _____

DRAWN BY _____
 CHECKED BY _____

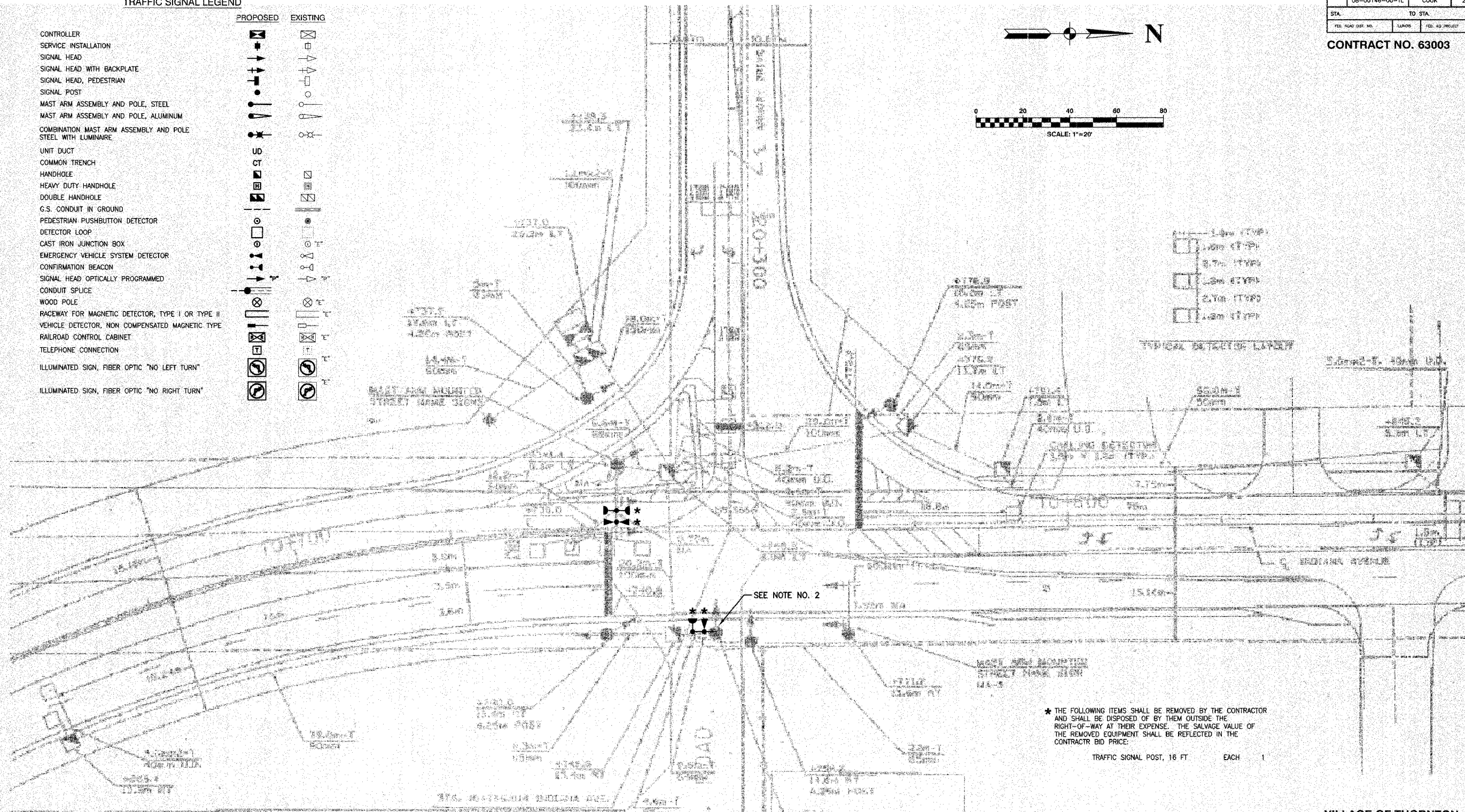
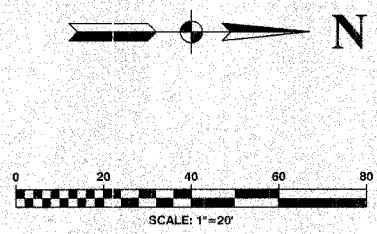
DATE _____

F. A. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00146-00-TL	COOK	273	272
STA.	TO STA.			
FED. ROAD DIST. NO.	LINENO.	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]



* 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

- 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."

* PLANS MODIFIED BY
ROBINSON ENGINEERING, LTD

REVISIONS	
NAME	DATE
* ADDED EV PREEMPTION	01/02/06
ADDED NEW 18 POST	

VILLAGE OF THORNTON
LOCATION NO. 130

ILLINOIS DEPARTMENT OF TRANSPORTATION

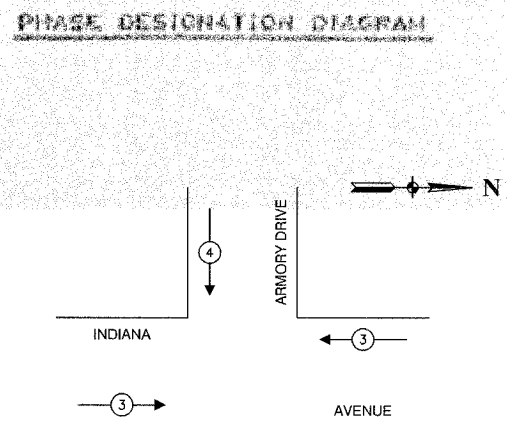
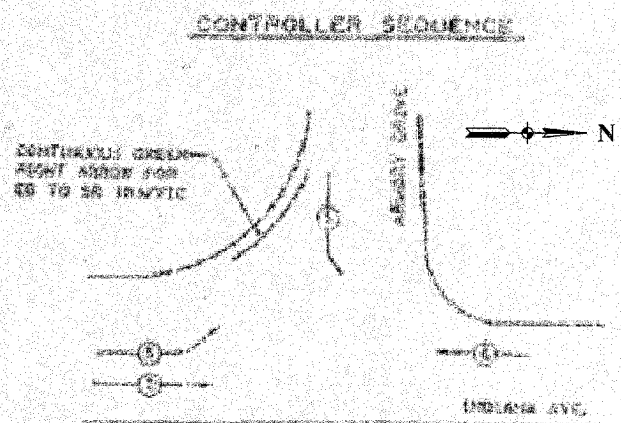
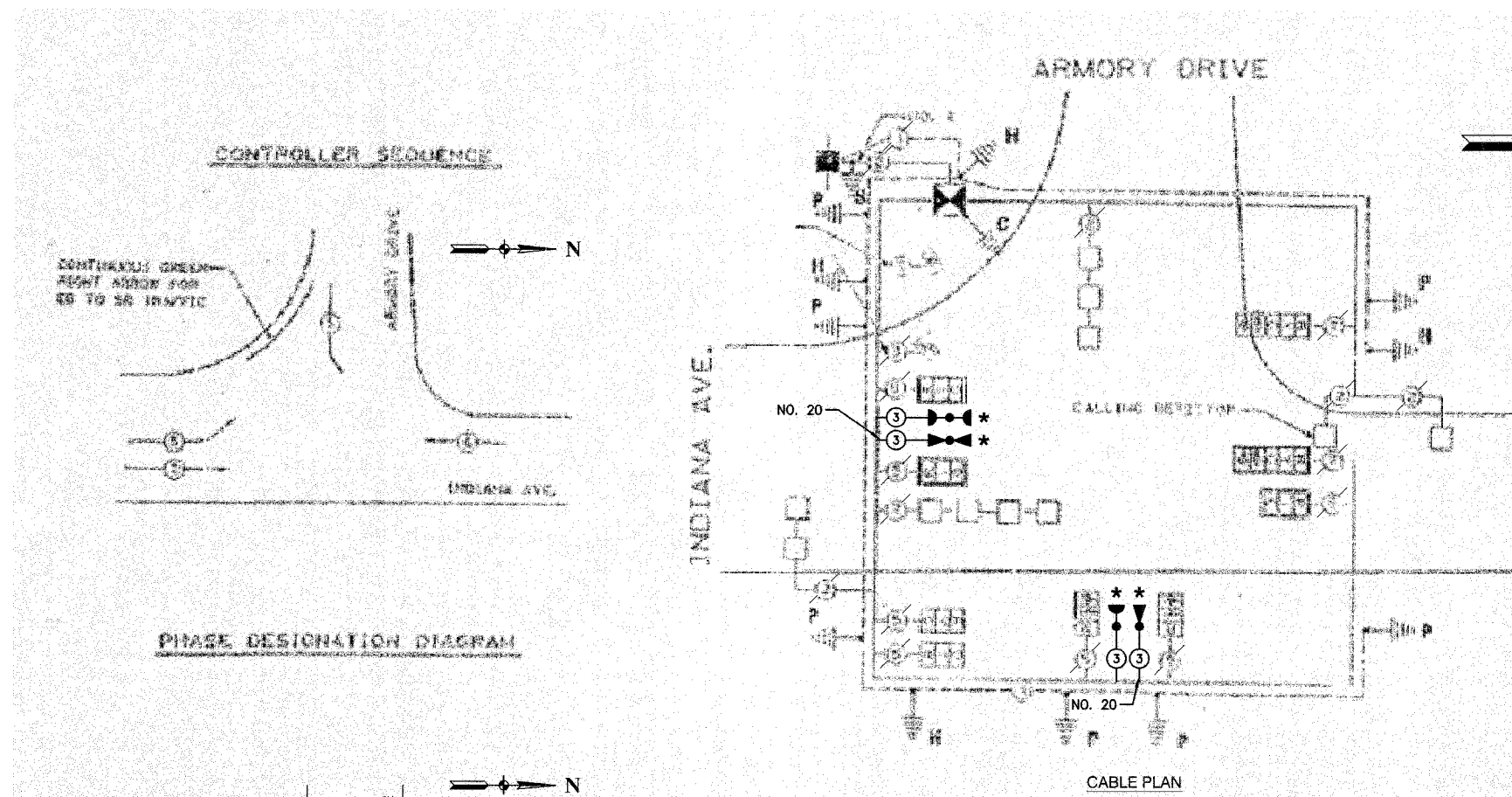
PROPOSED EMERGENCY VEHICLE PREEMPTION
INDIANA AVENUE & ARMORY (170TH STREET) DRIVE

SCALE: VERT. _____
HORIZ. _____

DATE _____ DRAWN BY _____
CHECKED BY _____

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

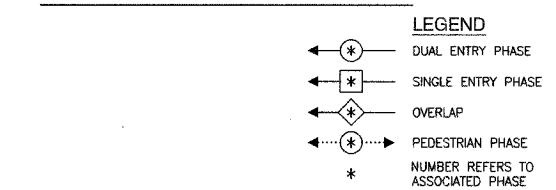
CONTRACT NO. 63003



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 "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	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	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.



EMERGENCY VEHICLE PREEMPTION SEQUENCE

PROPOSED EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT		

**VILLAGE OF THORNTON
 LOCATION NO. 130**

ILLINOIS DEPARTMENT OF TRANSPORTATION

PROPOSED EMERGENCY VEHICLE PREEMPTION CABLE PLAN, PHASE DESIGNATION DIAGRAM & SCHEDULE OF QUANTITIES
 INDIANA AVENUE & ARMORY (170TH STREET) DRIVE

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

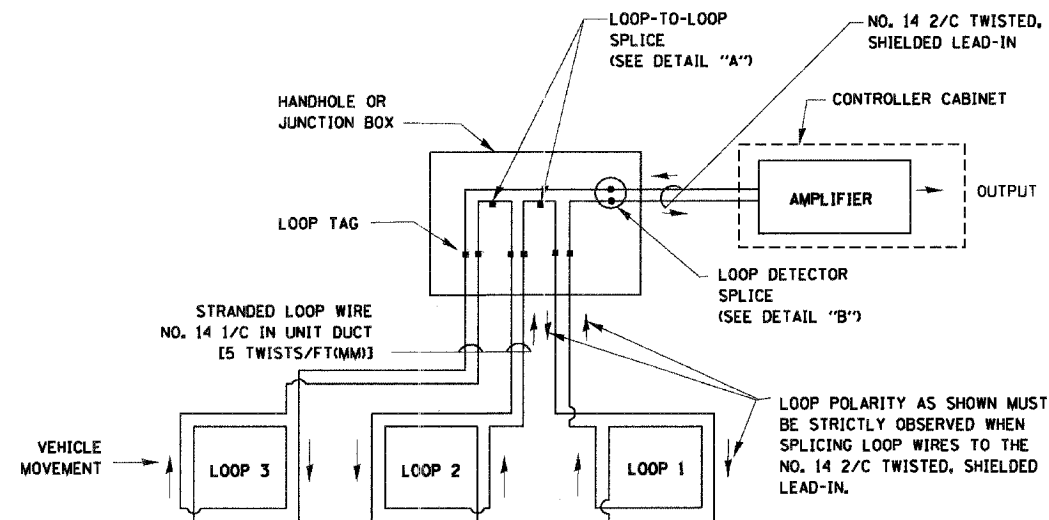
★ PLANS MODIFIED BY ROBINSON ENGINEERING, LTD

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

CONTRACT NO. 63003

LOOP DETECTOR NOTES

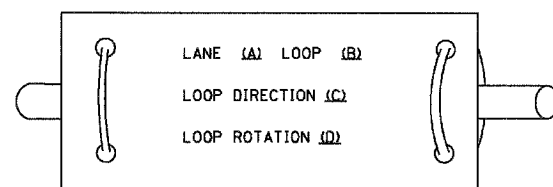
1. EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE UNIT DUCT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). UNIT DUCT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.
2. THE NUMBER OF LOOP TURNS SHALL BE AS RECOMMENDED BY THE AMPLIFIER MANUFACTURER. ALL ADJACENT SIDES OF THE LOOPS SHALL BE INSTALLED IN SUCH A WAY THAT THE CURRENT FLOW IS IN THE SAME DIRECTION TO REINFORCE ITS MAGNETIC FIELDS FOR SMALL VEHICLE DETECTION.
3. EACH LOOP LEAD-IN SHALL BE IDENTIFIED AND PERMANENTLY TAGGED IN THE HANDHOLE. EACH LEAD-IN CABLE TAG SHALL INDICATE THE LOCATION OF THE LOOP, LOOP ROTATION (CLOCKWISE/COUNTERCLOCKWISE), LOOP LEAD-IN DIRECTION (IN OR OUT), LOOP CABLE NUMBER AND LOCATION IN CABINET, AND NUMBER OF TURNS IN THE DETECTOR LOOPS IN WATER PROOF INK AS INDICATED ON THE DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAIL. THE CONTRACTOR SHALL MARK LOOP LOCATIONS ON RECORD DRAWINGS AND PRESENT TO THE ENGINEER AFTER FINAL INSPECTION. LOOPS SHALL BE MARKED BY LANE AND LOOP NUMBER. SEE DETAIL BELOW.
4. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.
5. IN ASPHALT PAVEMENT, LOOPS SHOULD BE PLACED IN THE BINDER AND DIVESHOLES MARKED AT THE CURB WITH A SAW-CUT. THE SAW-CUT SHALL BE CUT IN ACCORDANCE WITH LOCAL AND E.P.A. DUST CONTROL REQUIREMENTS. DETECTOR LOOP(S) SHALL NOT BE INSTALLED IN WET CONDITIONS AND THE SAW-CUTS MUST BE FREE OF DEBRIS AND RESIDUE SUCH AS DUST AND WATER WHICH IS TO BE ACHIEVED BY THE USE OF COMPRESSED AIR, WIRE BRUSHING AND HEAT DRYING ACCORDING TO SEALANT MANUFACTURER REQUIREMENTS. THE DETECTOR WIRE SHALL BE HELD IN PLACE BY THE USE OF FORM WEDGES. WEDGES SHALL BE SPACED NO MORE THAN 18" (450 mm) APART.
6. LOOP SPLICES SHALL BE SOLDERED USING A SOLDERING IRON. BLOW TORCHES OR OTHER DEVICES WHICH OXIDIZE COPPER CABLE SHALL NOT BE ALLOWED FOR SOLDERING OPERATIONS. SEE DETAIL BELOW RIGHT.
7. PREFORMED DETECTOR LOOPS SHALL BE USED, AS SHOWN ON THE PLANS, WHERE NEW CONCRETE PAVEMENT IS PROPOSED. THE INSTALLATION OF PREFORMED LOOPS SHALL BE IN ACCORDANCE WITH THE DISTRICT 1 SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.



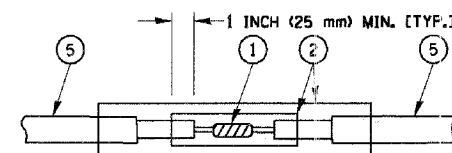
DETECTOR LOOP WIRING SCHEMATIC

- LOOPS SHALL BE SPLICED IN SERIES.
- SAW-CUTS SHALL BE A MINIMUM WIDTH OF 5/16" (8 mm).
- SAW-CUT DEPTHS SHALL BE 3" (75 mm), IF IN CONCRETE, THE SAW-CUT DEPTH SHALL BE TO THE TOP OF THE REINFORCEMENT.
- LOOP CORNERS SHALL BE DRILLED WITH A 2" (50 mm) DIAMETER CORE.

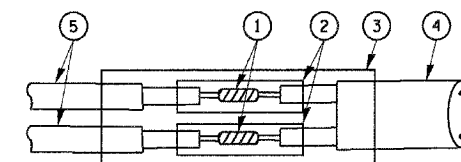
LOOP LEAD-IN CABLE TAG



- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.



**DETAIL "A"
LOOP-TO-LOOP SPLICE**



**DETAIL "B"
LOOP-TO-CONTROLLER SPLICE**

LOOP DETECTOR SPLICE:

- ① WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH.
- ② WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.
- ③ WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGTH 6" (150 mm), UNDERWATER GRADE.
- ④ NO. 14 2/C TWISTED, SHIELDED CABLE.
- ⑤ LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.

REVISIONS	
NAME	DATE
CADD	5/30/00
ADD NOTE NO. 8	11/12/01
BUREAU OF TRAFFIC	1-01-02

ILLINOIS DEPARTMENT OF TRANSPORTATION
**DISTRICT ONE
STANDARD TRAFFIC SIGNAL
DESIGN DETAILS**

SCALE: NONE

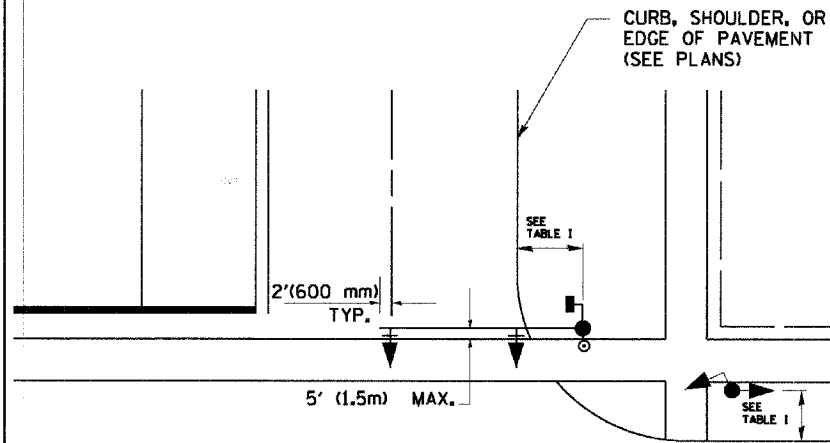
DRAWN BY: RWP
DESIGNED BY: DAD
CHECKED BY: DAZ
SHEET 1 OF 4

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
08-00146-00-TL	COOK		275
STA.	TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	

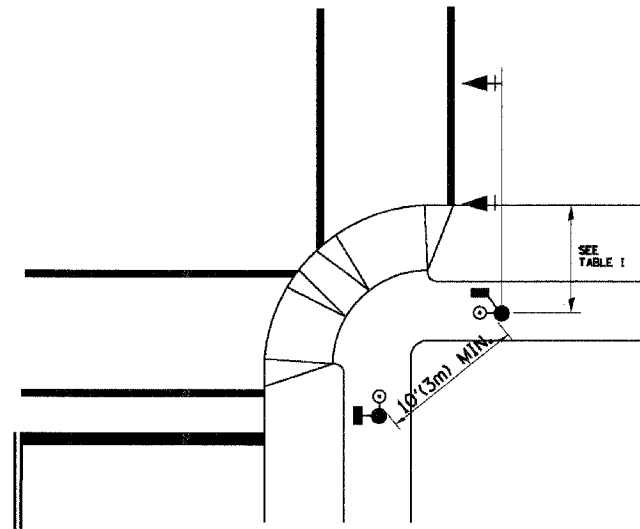
CONTRACT NO. 63003

TRAFFIC SIGNAL MAST ARM AND POST

MAST ARM MOUNTED SIGNAL IN PROPOSED & FUTURE SIDEWALK AREA, INTERSECTION SHOWN WITH PEDESTRIAN SIGNAL AND PUSHBUTTON DETECTOR



PEDESTRIAN SIGNAL PUSHBUTTON



RECOMMENDED PUSHBUTTON LOCATIONS FOR ACCESSIBLE PEDESTRIAN SIGNALS SHALL BE IN ACCORDANCE WITH THE CURRENT MUTCD (SEE NOTE 1). TO MEET MUTCD REQUIREMENTS, PEDESTRIAN SIGNAL PUSHBUTTONS MAY HAVE TO BE MOUNTED ON A SEPARATE POST.

NOTES:

- AT ACCESSIBLE PEDESTRIAN SIGNAL LOCATIONS WITH PEDESTRIAN ACTUATION, EACH PUSHBUTTON SHALL ACTIVATE BOTH THE WALK INTERVAL AND THE ACCESSIBLE PEDESTRIAN SIGNALS.
 AT ACCESSIBLE PEDESTRIAN SIGNAL LOCATIONS, PUSHBUTTONS SHOULD CLEARLY INDICATE WHICH CROSSWALK SIGNAL IS ACTUATED BY EACH PUSHBUTTON. PUSHBUTTONS AND TACTILE ARROWS SHOULD HAVE HIGH VISUAL CONTRAST (SEE THE DEPARTMENT OF JUSTICE'S AMERICANS WITH DISABILITIES ACT STANDARDS FOR ACCESSIBLE DESIGN, 1991). TACTILE ARROWS SHOULD POINT IN THE SAME DIRECTION AS THE ASSOCIATED CROSSWALK. AT CORNERS OF SIGNALIZED LOCATIONS WITH ACCESSIBLE PEDESTRIAN SIGNALS WHERE PEDESTRIAN PUSHBUTTONS ARE PROVIDED, THE PUSHBUTTONS SHOULD BE SEPARATED BY THE DISTANCE OF AT LEAST 10 FT (3m). THIS ENABLES PEDESTRIANS WHO HAVE VISUAL DISABILITIES TO DISTINGUISH AND LOCATE THE APPROPRIATE PUSHBUTTON.
 PUSHBUTTONS FOR ACCESSIBLE PEDESTRIAN SIGNALS SHOULD BE LOCATED AS FOLLOWS:
 A: ADJACENT TO A LEVEL ALL-WEATHER SURFACE TO PROVIDE ACCESS FROM A WHEELCHAIR, AND WHERE THERE IS AN ALL WEATHER SURFACE, WHEELCHAIR ACCESSIBLE ROUTE TO THE RAMP.
 B: WITHIN 5 FT (1.5m) OF THE CROSSWALK EXTENDED.
 C: WITHIN 10 FT (3m) OF THE EDGE OF CURB, SHOULDER, OR PAVEMENT.
 D: PARALLEL TO THE CROSSWALK TO BE USED (SEE MUTCD FIGURE 4E-2).
 E: NORMAL PEDESTRIAN PUSHBUTTON MOUNTING HEIGHT SHOULD BE 3.5 FT (1.05m) ABOVE ADJACENT SIDEWALK.
- PEDESTRIAN SIGNAL FACES SHALL BE MOUNTED WITH THE BOTTOM OF THE HOUSING NOT LESS THAN 8 FT (2.4m) NOR MORE THAN 10 FT (3.0m) ABOVE THE SIDEWALK LEVEL AND SO THERE IS A PEDESTRIAN INDICATION IN THE LINE OF PEDESTRIANS' VISION WHICH PERTAINS TO THE CROSSWALK BEING USED.
- THE BOTTOM OF THE HOUSING OF A VEHICLE SIGNAL FACE, NOT MOUNTED OVER A ROADWAY, SHALL BE AT LEAST 10 FT (3.0m) BUT NOT MORE THAN 15 FT (4.5m) ABOVE THE SIDEWALK OR, ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE HIGHWAY IF NO SIDEWALKS EXIST.
- THE BOTTOM OF THE HOUSING OF A VEHICLE SIGNAL FACE, MOUNTED OVER A ROADWAY, SHALL BE ACCORDING TO CURRENT STATE STANDARDS 877001 AND 877006. (16 FT (5m) MIN., 18 FT (5.5m) MAX., FROM HIGHEST POINT OF PAVEMENT)

PEDESTRIAN SIGNAL POST

PEDESTRIAN SIGNAL HEAD AND PEDESTRIAN PUSHBUTTON DETECTOR LOCATION

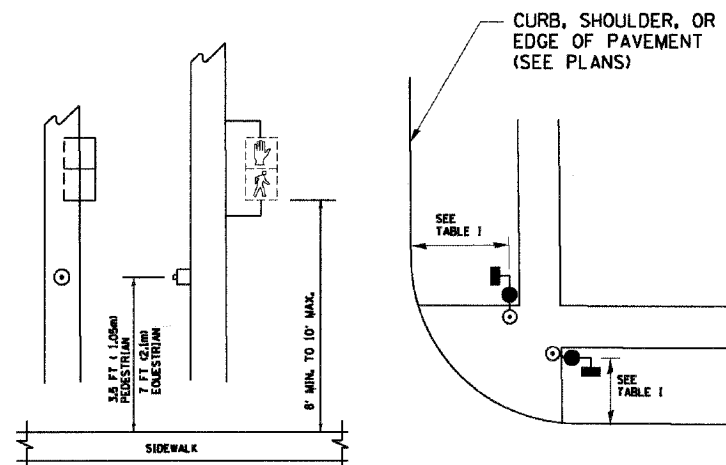


TABLE I

TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MIN. DIST. FROM BACK OF CURB)	SHOULDER/NON-CURBED AREA (MIN. DIST. FROM EDGE OF PAVEMENT)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2FT(0.6m), MINIMUM 10FT(3.0m)
TRAFFIC SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2FT(0.6m), MINIMUM 10FT(3.0m)
PEDESTRIAN SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2FT(0.6m), MINIMUM 10FT(3.0m)
PEDESTRIAN PUSHBUTTON	SEE NOTE 1	SEE NOTE 1

REVISIONS	
NAME	DATE
BUREAU OF TRAFFIC	1/01/02

ILLINOIS DEPARTMENT OF TRANSPORTATION
 DISTRICT 1
 STANDARD TRAFFIC SIGNAL
 DESIGN DETAILS

SCALE: NONE

DRAWN BY: RWP
 DESIGNED BY: DAD
 CHECKED BY: DAZ
 SHEET 2 OF 4

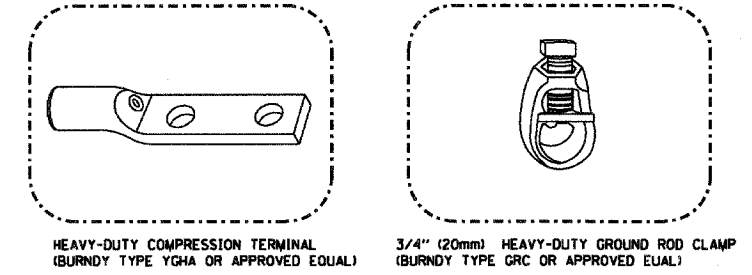
P.A. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00146-00-TL	COOK		1/1
STA.	TO STA.			
FED. ROAD DIST. NO.	LINE NO.	FED. AID PROJECT		

CONTRACT NO. 63003

NOTES:

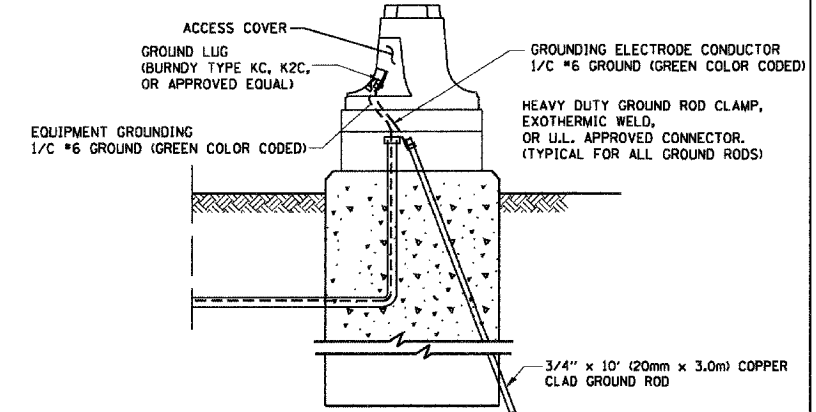
GROUNDING SYSTEM

1. THE GROUNDING SYSTEM SHALL CONSIST OF AN INSULATED CONDUCTOR TYPE XLP, NO. 6 A.W.G., STRANDED COPPER TO BE INSTALLED IN RACEWAYS. THE GROUNDING CABLE SHALL BE INSTALLED IN A CONTINUOUS MANNER AS SHOWN ON THE CABLE PLAN PROVIDED. ALL GROUNDING CONDUCTORS SHALL BE BONDED TO METAL ENCLOSURE (HANDHOLE, POST, MAST ARM, CONTROLLER, ETC.). GROUND ROD SHALL BE 3/4" DIA. x 10'-0" (20mm x 3.0m) LONG, COPPER CLAD, ONE GROUND ROD SHALL BE INSTALLED AT ALL POST FOUNDATIONS, POLE FOUNDATIONS, CONTROLLER CABINET FOUNDATION AND ELECTRICAL SERVICE INSTALLATION AS INDICATED ON THE CABLE PLAN. IF THERE ARE ANY SPECIAL CONDITIONS SUCH AS SUB-SURFACE CONDITIONS OR INSTALLATION PROBLEMS, THE RESIDENT ENGINEER SHALL BE NOTIFIED OR CONTACT THE BUREAU OF TRAFFIC, ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT ONE AT (847) 705-4139.
2. THE NEUTRAL CONDUCTOR AND THE GROUND CONDUCTOR SHALL BE CONNECTED IN THE SERVICE INSTALLATION, AT NO OTHER POINT IN THE TRAFFIC SIGNAL SYSTEM SHALL THE NEUTRAL AND GROUND CONDUCTORS BE CONNECTED.
3. ALL EQUIPMENT GROUNDING CONDUCTORS SHALL TERMINATE AT THE GROUND BUS IN THE CONTROLLER CABINET.
4. THE CONTRACTOR SHALL PROVIDE A GROUND CABLE WITH CONNECTORS BETWEEN THE HANDHOLE COVER AND HANDHOLE FRAME.



NOTES:

- ALL CLAMPS SHALL BE BRONZE OR COPPER, UL APPROVED.
- GROUND CABLE SHALL BE LOOPED OVER HOOKS IN THE HANDHOLES 6.5' (2.0m) SLACK SHALL BE PROVIDED IN SINGLE HANDHOLES 13' (4.0m) OF SLACK SHALL BE PROVIDED IN DOUBLE HANDHOLES. 5' (1.4m) OF SLACK SHALL BE PROVIDED BETWEEN FRAME AND COVER.



MAST ARM POLE / POST-GROUNDING DETAIL

REVISIONS	
NAME	DATE
CADD	5/30/00
CADD	3/15/01
BUREAU OF TRAFFIC	1/01/02

ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL
DESIGN DETAILS

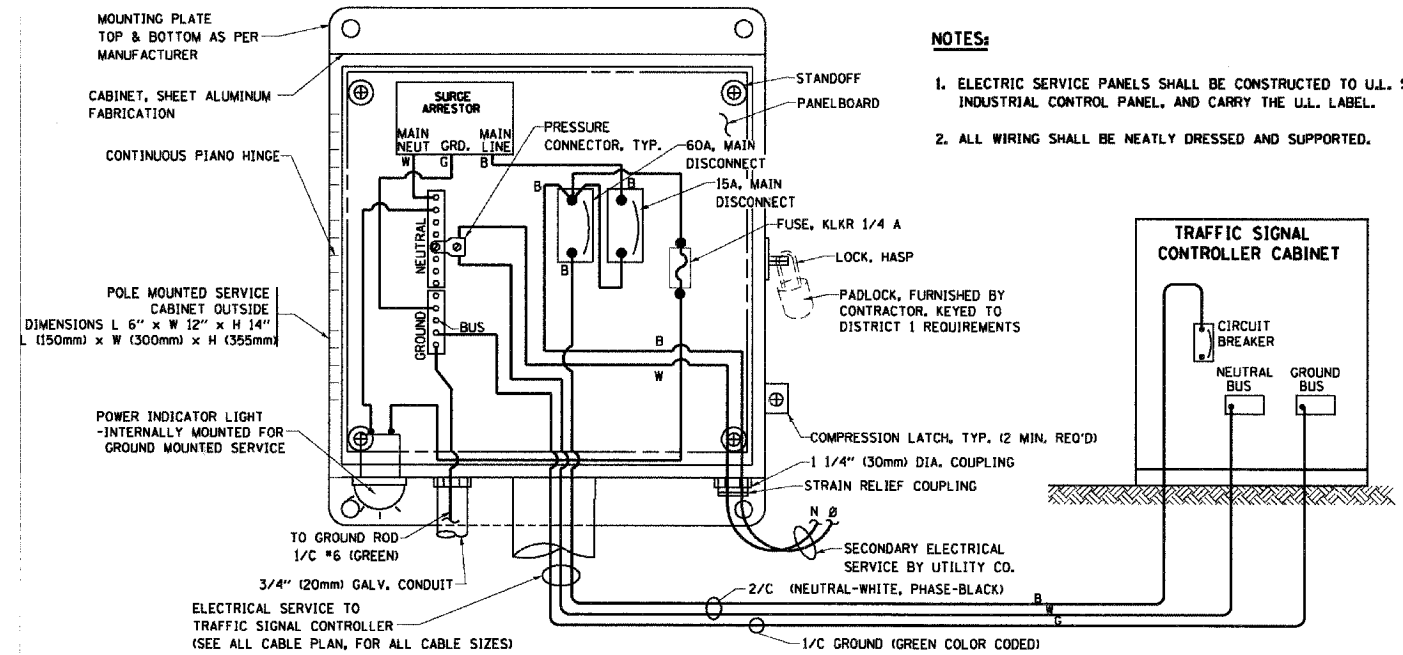
SCALE: NONE

DRAWN BY: RWP
DESIGNED BY: DAD
CHECKED BY: DAZ
SHEET 3 OF 4

TS05

NOTES:

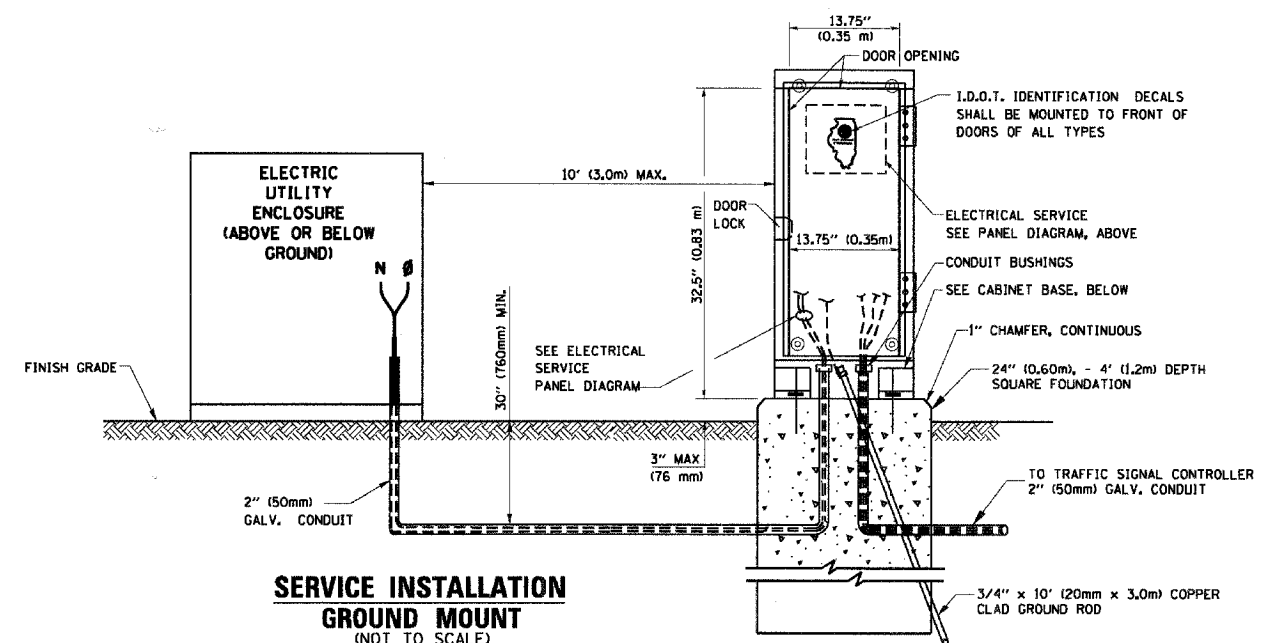
1. ELECTRICAL SERVICE PANELS SHALL BE CONSTRUCTED TO U.L. STD 508, INDUSTRIAL CONTROL PANEL, AND CARRY THE U.L. LABEL.
2. ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.



ELECTRICAL SERVICE - PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)

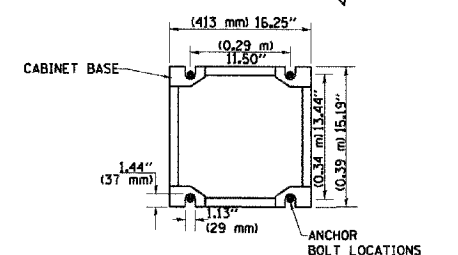
SERVICE INSTALLATION POLE MOUNT (SHOWN)

(NOT TO SCALE)



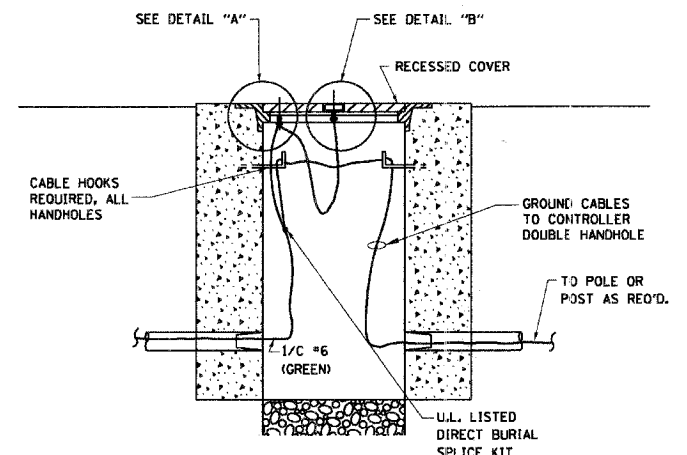
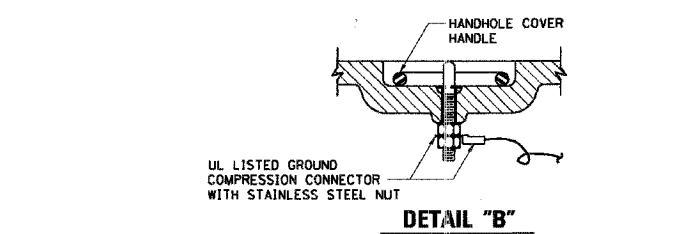
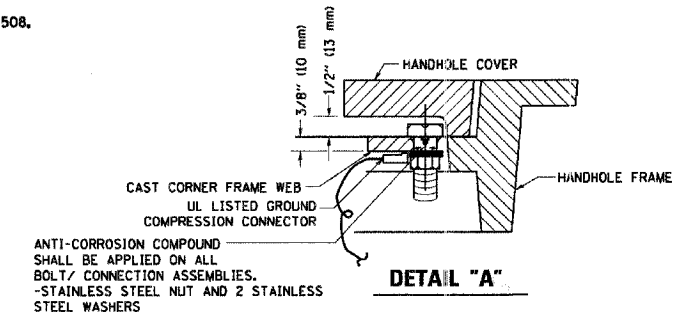
SERVICE INSTALLATION GROUND MOUNT

(NOT TO SCALE)



CABINET - BASE BOLT PATTERN

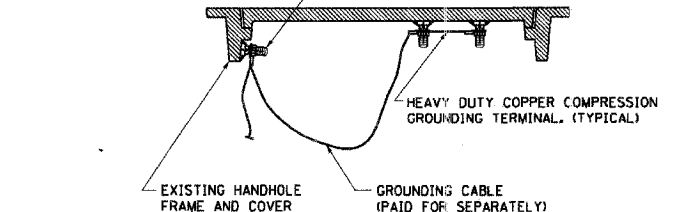
(NOT TO SCALE)



HANDHOLE COVER & FRAME - GROUNDING DETAIL

(NOT TO SCALE)

- (2) 1/2" x 1 1/4" STAINLESS STEEL BOLT WITH SPLIT LOCK WASHER AND NYLON INSERT LOCKOUT WELDED TO FRAME AND TO COVER. (TYPICAL)



EXISTING HANDHOLE COVER & FRAME - GROUNDING DETAIL

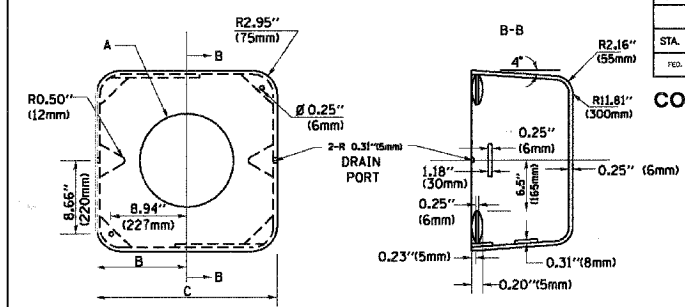
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PLOT DATE = 3/7/2007
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USER NAME = daz

F. A. FILE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00146-00-TL	COOK		277
STA.	TO STA.			
FED. ROAD DIST. NO.	BLK/MS	FED. RD PROJECT		

CONTRACT NO. 63003

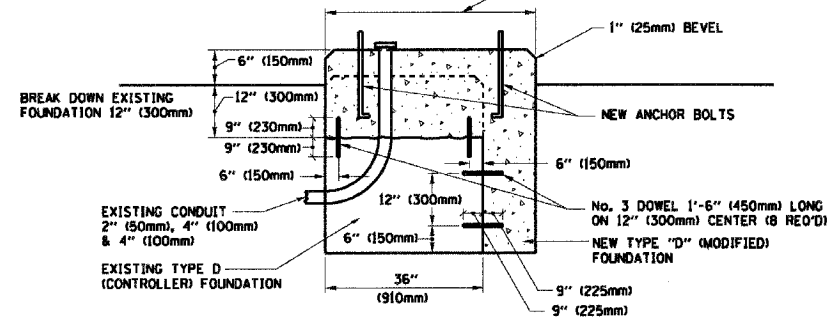
MATERIAL:
 - ASTM A48 CLASS 30 GREY IRON
 - ASTM A123 HOT DIPPED GALVANIZED



TYPE	A	B	C	HEIGHT	WEIGHT
I	Ø 10.125" (257mm)	9.5" (241mm)	19" (483mm)	12" (300mm)	24kg
II	Ø 11.125" (283mm)	10.75" (273mm)	21.5" (546mm)	12" (300mm)	26kg

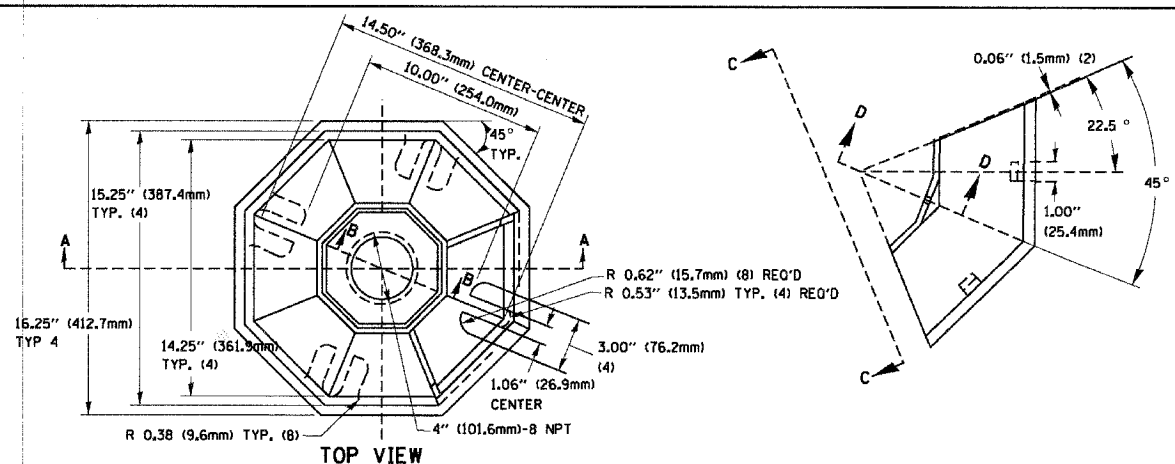
SHROUD DETAIL

NOTES:
 SUPPORT EXISTING CABINET AND CONTROL EQUIPMENT ABOVE FOUNDATION TO KEEP TRAFFIC SIGNAL FUNCTIONING WHILE FOUNDATION MODIFICATION WORK IS PROCEEDING.
 DIMENSION 7" (175mm) LARGER THAN CONTROLLER BASE DIMENSION, BOTH DIRECTIONS

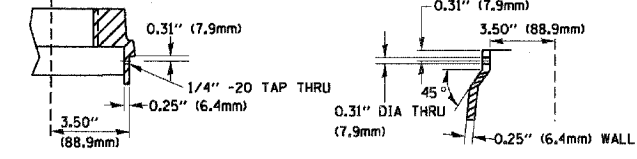


MODIFY EXISTING TYPE "D" FOUNDATION

(NOT TO SCALE)

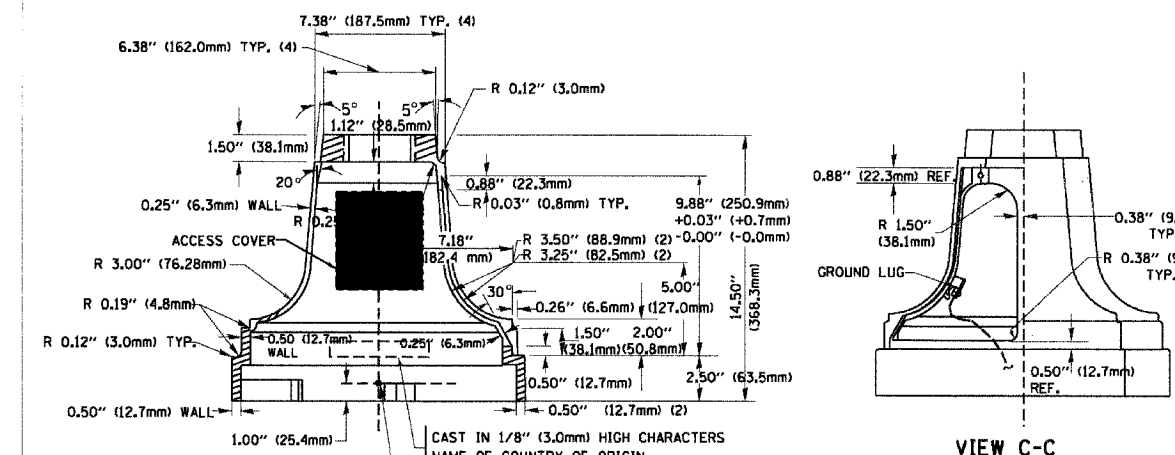


TOP VIEW



SECTION B-B

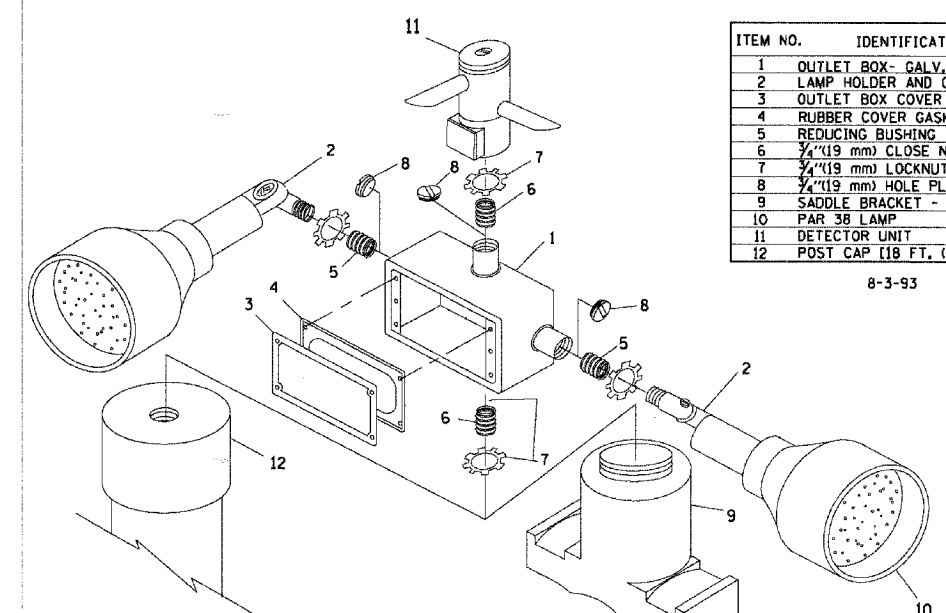
SECTION D-D



SECTION A-A

VIEW C-C

TRAFFIC SIGNAL POST - MOUNTING BASE - TYPE A



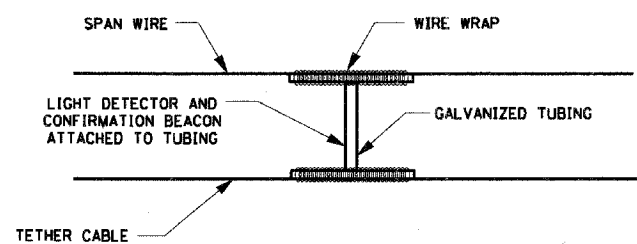
ITEM NO.	IDENTIFICATION
1	OUTLET BOX - GALV. 21 CU. IN. (0.000344 CU-M)
2	LAMP HOLDER AND COVER
3	OUTLET BOX COVER
4	RUBBER COVER GASKET
5	REDUCING BUSHING
6	3/4" (19 mm) CLOSE NIPPLE
7	3/4" (19 mm) LOCKNUT
8	3/4" (19 mm) HOLE PLUG
9	SADDLE BRACKET - GALV.
10	PAR 38 LAMP
11	DETECTOR UNIT
12	POST CAP [18 FT. (5.4 m) POST MIN.]

8-3-93

POST CAP MOUNT MAST ARM MOUNT
 EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL

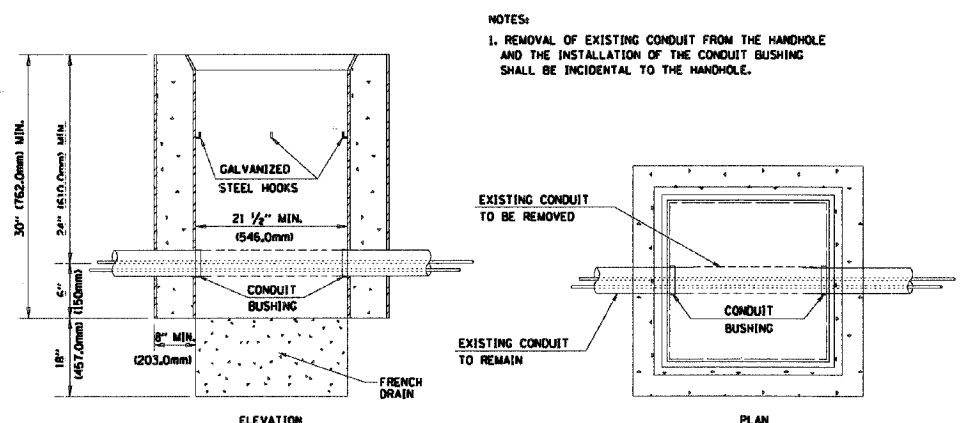
NOTES:

- ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR GALVANIZED
- ITEM #1- OZ/GEDNEY FSX-1-50 OR EQUIVALENT
 ITEM #2- WULBERRY CON-O-SHADE LAMP SHIELD OR EQUIVALENT
 ITEM #9- "BAND-IT" SADDLE BRACKET OR EQUIVALENT
- WHEN POST MOUNTING IS SPECIFIED, ITEM #9 SHALL NOT BE REQUIRED. THE DETECTION UNIT SHALL BE MOUNTED DIRECTLY ON TOP OF THE CAP BY DRILLING AND TAPPING A 3/4" (19 mm) HOLE WITH PIPE THREADS. THE POST CAP SHALL EITHER BE SCREWED TO THE TOP OF THE POST OR A MINIMUM OF 3 TIGHTENING SCREWS SHALL BE REQUIRED ON EACH CAP.



LIGHT DETECTOR AND CONFIRMATION BEACON MOUNTING FOR TEMPORARY TRAFFIC SIGNALS

(NOT TO SCALE)



DETAIL HANDHOLE TO INTERCEPT EXISTING CONDUIT N.T.S.

REVISIONS	
NAME	DATE
BUREAU OF TRAFFIC	5/30/00
BUREAU OF TRAFFIC	3/15/01
BUREAU OF TRAFFIC	11/12/01
BUREAU OF TRAFFIC	1-01-02

ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
 STANDARD TRAFFIC SIGNAL
 DESIGN DETAILS

SCALE: NONE

DRAWN BY: RWP
 DESIGNED BY: DAZ
 CHECKED BY: DAZ
 SHEET 4 OF 4

TS05

PLOT DATE = 3/7/2007
 FILE NAME = K:\gis\asv\asv\asv.dgn
 PLOT SCALE = 84.0000 / 1"
 USER NAME = bharadwaj