98968

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	10 TS	JACKSON	8	1

fi
9

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

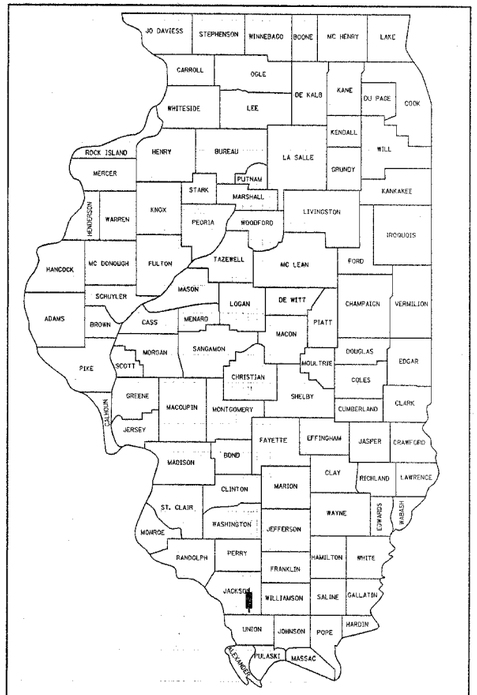
PROPOSED HIGHWAY PLANS

TRAFFIC SIGNALS
FAP 322 (US 51) & FAS 1911
(SOUTH ILLINOIS AVENUE/OLD US 51)
SECTION 10 TS
JACKSON CO.
C-99-032-06

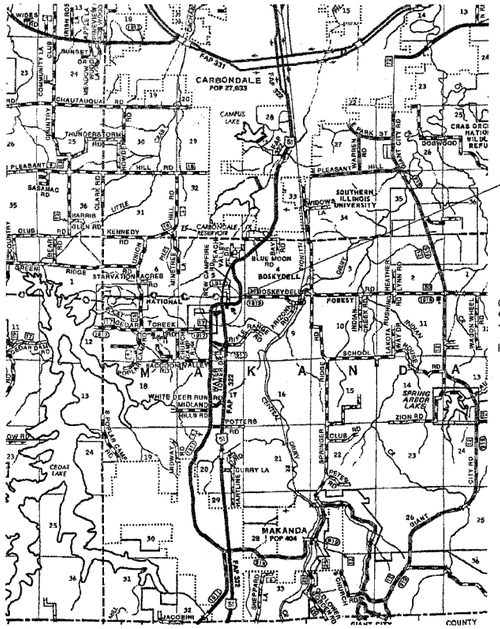
PROJECT: HS-0322(078)

FOR INDEX OF SHEETS, SEE SHEET NO. 2 OF 8

LOCATION	ADT	% TRUCKS
US 51 N OF OLD US 51	8900	3%
S ILL AVE E OF US 51	1850	0%
US 51 S OF OLD US 51	6200	4%
OLD US 51 W OF US 51	3300	0%



LOCATION OF SECTION INDICATED THUS: -



FAS 322 (US 51) & FAS 1911
(SOUTH ILLINOIS AVE/OLD US 51)

0 50' 100' — 1"= 30'

TRAFFIC SIGNAL AND LIGHTING, PAVEMENT MARKING

FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123

MAKANDA TOWNSHIPS

CONTRACT NO. 98968

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED March 31 20 06

Mary C. Lamie
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

May 12, 2006
Mike Hine PE
ENGINEER OF DESIGN AND ENVIRONMENT

May 12, 2006
Milton R. Sees, P.E.
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

PROJECT LEADER: SUSAN POE PHONE NO. (618) 549-2171
DESIGN LEADER: SUSAN POE CENTREX NO. 782-4554

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	10 TS	JACKSON	8	2
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

GENERAL NOTES

THE FURNISHING AND INSTALLATION OF THE 1 1/2" CONDUIT WITH ITS TRENCHING AND BACKFILL FROM THE LOOP SAWCUT TO THE SPLICE POINT SHALL BE INCLUDED IN THE LOOP INSTALLATION UNLESS SHOWN OTHERWISE ON THE PLANS.

THE INDUCTION LOOP WIRE AND LEAD-IN WIRE SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION.

SHIELDED CABLE TO LOOP LEADS SHALL BE GROUNDED AT THE CONTROLLER TERMINAL ONLY.

ALL DETECTOR LOOP CORNERS SHALL BE CORE DRILLED 2 IN. MINIMUM DIAMETER, EXCEPT THOSE PLACED UNDER RESURFACING. THE DETECTOR LOOP CORNERS PLACED UNDER RESURFACING SHALL BE DIAGONALLY SAW CUT.

WHILE SIGNAL HEADS ARE MOUNTED IN PLACE, BUT NOT YET IN OPERATION, THEY SHALL BE SECURELY COVERED IN WHITE PLASTIC.

SAWED SLOTS FOR TWISTED PAIR ELECTRIC CABLES SHALL BE LARGER THAN SINGLE CONDUCTOR LOOP SLOTS.

THE TRAFFIC OPERATIONS ENGINEER SHALL BE NOTIFIED PRIOR TO CONSTRUCTION OF MAST ARM AND CONTROLLER FOUNDATIONS, HANDHOLES, AND GULFBOX JUNCTIONS AND SHALL APPROVE THE LOCATIONS OF EACH AND MAY ADJUST TO FIT FIELD CONDITIONS IF NECESSARY.

ALL PROPOSED MAST ARMS SHALL BE LOCATED NO CLOSER THAN 6 FT. FROM FACE OF CURB TO CENTER OF POLE.

THE LOCATION OF THE DETECTOR LOOPS MAY BE ADJUSTED TO FIT FIELD CALCULATIONS AS DIRECTED BY THE ENGINEER OF OPERATIONS.

THE EXISTING ROAD SIGNS THAT INTERFERE WITH CONSTRUCTION WILL BE REMOVED OR RELOCATED AS DIRECTED BY THE ENGINEER ACCORDING TO ARTICLE 107.25 OF THE STANDARD SPECIFICATIONS. AFTER THE CONSTRUCTION IS COMPLETED, THE CONTRACTOR WILL RE-ERECT THE SIGNS AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO COMPENSATION WILL BE ALLOWED.

UTILITIES ARE SHOWN IN ACCORDANCE WITH THE BEST AVAILABLE INFORMATION AND THEIR ACTUAL LOCATIONS ARE NOT GUARANTEED TO BE AS SHOWN IN THE PLANS.

EXISTING SURFACE DISTURBED DURING EXCAVATION FOR TRENCHING SHALL RESTORED TO ITS ORIGINAL CONDITION. NO ADDITIONAL COMPENSATION WILL BE MADE FOR THIS WORK. ALL MATERIALS, EQUIPMENT AND LABOR NECESSARY FOR CLASS 1B SEEDING SHALL BE CONSIDERED INCIDENTAL TOTHE TRENCHING REQUIRED TO PLACE THE SIGNAL CABLE.

PRIOR TO PLACMENT OF THE FINAL PAVEMENT MARKINGS THE RESIDENT ENGINEER SHOULD CONTACT THE BUREAU OF OPERATIONS AND ARRANGE FOR INSPECTION AND APPROVAL OF THE PAVEMENT MARKING LAYOUT.

THE CONTRACTOR WILL BE REQUIRED TO LOCATE THE FIBER OPTIC CABLE LOCATED ACROSS THE NORTH LEG OF US 51, PRIOR TO PLACEMENT OF CONDUIT IN TRENCH AT THIS LOCATION. THIS WORK SHALL BE DONE IN ACCORDANCE WITH APPLICABLE J.U.L.I.E. LAWS,

HARDWARE FOR A PREEMPT PHASE, FOR USE BY THE MAKANDA FIRE DEPARTMENT, WILL BE INSTALLED IN THE PROPOSED CONTROLLER. THE COST OF THE HARDWARE AND 1 1/2" PVC CONDUIT EXTENDING FROM THE CONTROLLER FOUNDATION WILL BE THE RESPONSIBILITY OF IDOT. ALL OTHER COSTS ASSOCIATED WITH INSTALLATION OF THE PREEMPT SWITCH SHALL BE THE RESPONSIBILITY OF THE FIRE DEPARTMENT. THE CONTRACTOR SHALL COORDINATE THIS WORK WITH THE FIRE DEPARTMENT, JOHN HERTER (618) 528-3433.

COMMITMENTS: NONE.

INDEX OF SHEETS

STANDARDS

000001-04	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
001006	DECIMAL OF AN INCH AND OF A FOOT
701001-01	OFF-ROAD OPERATIONS 2L, 2W, 15' MIN AWAY FOR SPEEDS EQUAL TO OR GREATER THAN 45 MPH
701006-02	OFF-ROAD OPERATIONS 2L, 2W, 15' TO PAVEMENT EDGE FOR SPEED EQUAL TO OR GREATER THAN 45 MPH
701201-02	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS GREATER THAN OR EQUAL TO 45 MPH
701306-01	LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS GREATER THAN OR EQUAL TO 45 MPH
701701-04	URBAN LANE CLOSURE, MULTILANE INTERSECTION
702001-06	TRAFFIC CONTROL DEVICES
720016-01	MAST ARM MOUNTED STREET NAMES SIGNS
780001-01	TYPICAL PAVEMENT MARKINGS
805001	ELECTRICAL SERVICE INSTALLATION DETAILS
814001	CONCRETE HANDHOLES
813001-01	JUNCTION BOXES
857001	STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES
877001-02	STEEL MAST ARM ASSEMBLY AND POLE
877011-02	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE
878001-04	CONCRETE FOUNDATION DETAILS
880006	TRAFFIC SIGNAL MOUNTING DETAILS
886001	DETECTOR LOOP INSTALLATIONS
886006	TYPCIAL LAYOUT FOR DETECTION LOOPS

Prepared By: Joe Zdarkewicz — DISTRICT STUDIES & PLANS ENGINEER
Examined By: Thomas Louis Emery — DISTRICT LAND ACQUISITION ENGINEER
Examined By: Connie Nelsen — DISTRICT PROGRAM DEVELOPMENT ENGINEER
Examined By: Jim Smothers — DISTRICT OPERATIONS ENGINEER
Examined By: Dwight Lyon — DISTRICT CONSTRUCTION ENGINEER
Examined By: Bruce Barbre — DISTRICT MATERIALS ENGINEER
Examined By: Darrin M. Stilabower — DISTRICT PROJECT IMPLEMENTATION ENGINEER
Examined By: Darrin M. Stilabower — ASSISTANT REGIONAL ENGINEER
Approved By: Mary C. Lamie — DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER
March 31 2006 — DATE

Rev.

GENERAL NOTES, INDEX OF SHEETS AND STANDARDS

3/24/2006
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	10 TS	JACKSON	8	3
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SUMMARY OF QUANTITIES

CODE NO	ITEM	CONSTRUCTION TYPE CODE		Y031-1F ROADWAY 90% FED 10% STATE	Y031-1F TRAFFIC SIGNALS 90% FED 10% STATE	Y030-1F LIGHTING 90% FED 10% STATE
		UNIT	TOTAL QUANTITIES			
X0300737	RADIO TRANSCEIVER	EACH	1		1	
X8801300	SIGNAL HEAD, POLYCARBONATE, LED, 1 - FACE, 3-SECTION, BRACKET MOUNTED	EACH	2		2	
X8801310	SIGNAL HEAD, POLYCARBONATE, LED, 1 - FACE, 3-SECTION, MAST ARM MOUNTED	EACH	8		8	
81702450	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3 1/C #10	FOOT	451			451
67100100	MOBILIZATION	L SUM	1	1		
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1	1		
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	1		
* 72000100	SIGN PANEL - TYPE 1	SQ FT	15.0			
* 72000200	SIGN PANEL - TYPE 2	SQ FT	30.0			
* 78008310	POLYUREA PAVEMENT MARKING TYPE II - LINE 4"	FOOT	122	122		
* 78008350	POLYUREA PAVEMENT MARKING TYPE II - LINE 12"	FOOT	66	66		
* 78008370	POLYUREA PAVEMENT MARKNG TYPE II - LINE 24"	FOOT	84	84		
80500105	SERVICE INSTALLATION, TYPE A (MODIFIED)	EACH	1		1	
81012500	CONDUIT IN TRENCH, 1 1/2" DIA., PVC	FOOT	667		667	
81012700	CONDUIT IN TRENCH, 2 1/2" DIA., PVC	FOOT	117		117	
81012800	CONDUIT IN TRENCH, 3" DIA., PVC	FOOT	42		42	
81013000	CONDUIT IN TRENCH, 4" DIA., PVC	FOOT	10		10	
81021560	CONDUIT, AUGERED 2 1/2" DIA., PVC	FOOT	130		130	
81021570	CONDUIT, AUGERED 3" DIA., PVC	FOOT	84		84	
81400100	HANDHOLE	EACH	4		4	
81500200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	836		836	
82103900	LUMINAIRE, SODIUM VAPOR, MULTI-MOUNT, 250 WATT	EACH	4			4
82500605	LIGHTING CONTROLLER - PHOTOCELL RELAY	EACH	1			1
85700200	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1		1	
86200200	UNINTERUPTIBLE POWER SUPPLY, STANDARD	EACH	1		1	
86600010	GULFBOX JUNCTION	EACH	3		3	
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1392		1392	
87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	2502		2502	
87700240	STEEL MAST ARM ASSEMBLY AND POLE 40 FT.	EACH	2		2	
87703000	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 55 FT.	EACH	2		2	
87800150	CONCRETE FOUNDATION, TYPE C	FOOT	3		3	
87800415	CONCRETE FOUNDATION, TYPE E, 36-INCH DIAMETER	FOOT	56		56	
88200100	TRAFFIC SIGNAL BACKPLATE	EACH	8		8	
88500100	INDUCTIVE LOOP DETECTOR	EACH	8		8	
88500200	INDUCTIVE LOOP DETECTOR WITH SYSTEM OUTPUT	EACH	2		2	
88600100	DETECTOR LOOP, TYPE I	FOOT	950		950	

*SPECIALTY ITEMS

3/24/2006

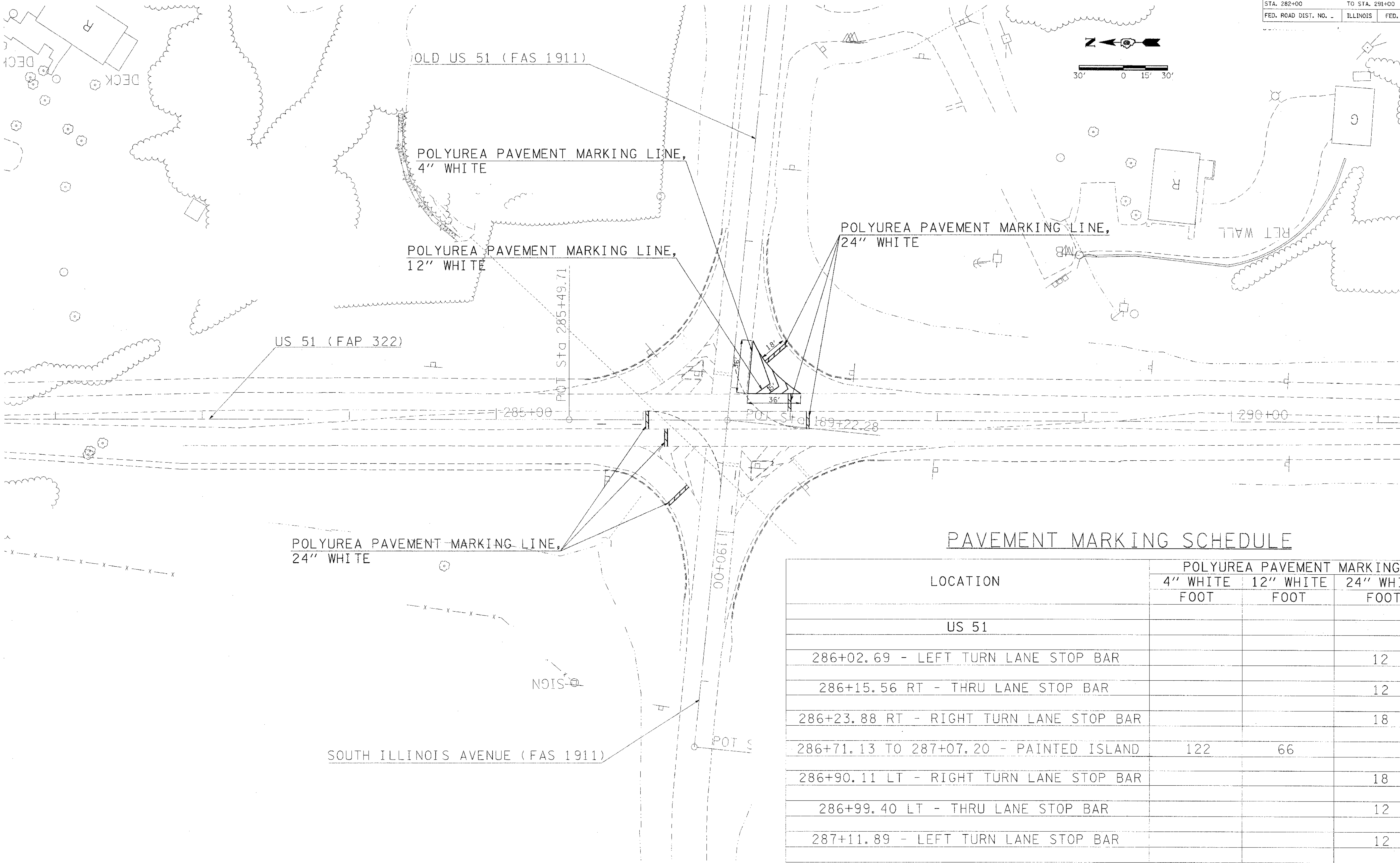
Rev.

SUMMARY OF QUANTITIES

F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
322	10TS	JACKSON	8	4

STA. 282+00 TO STA. 291+00

FED. ROAD DIST. NO. _ | ILLINOIS | FED. AID PROJECT



PAVEMENT MARKING SCHEDULE

LOCATION	POLYUREA PAVEMENT MARKING 4" WHITE FOOT	12" WHITE FOOT	24" WHITE FOOT
US 51			
286+02.69 - LEFT TURN LANE STOP BAR			12
286+15.56 RT - THRU LANE STOP BAR			12
286+23.88 RT - RIGHT TURN LANE STOP BAR			18
286+71.13 TO 287+07.20 - PAINTED ISLAND	122	66	
286+90.11 LT - RIGHT TURN LANE STOP BAR			18
286+99.40 LT - THRU LANE STOP BAR			12
287+11.89 - LEFT TURN LANE STOP BAR			12
TOTALS	122	66	84

PAVEMENT MARKINGS

F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
322	10 TS	JACKSON	8	5
STA. 282+00		TO STA. 291+00		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

N

30' 0 15' 30'

OLD US 51 (FAS 1911)

CONCRETE HANDHOLE, 1 EACH
STA 286+22.18, 69.35 LT (NEW US 51)
MATCH EXISTING GROUND ELEVATION

2 1/2" PVC
14' T

1 1/2" PVC
13' T

2 1/2" PVC
25' T,
71' A

STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 55'
SIGNAL HEAD, POLCARBONATE, LED,
1-FACE, 3-SECTION, MAST ARM MOUNTED, 2 EACH
TRAFFIC SIGNAL BACKPLATE, 2 EACH
CONCRETE FOUNDATION, TYPE E, 36" DIA. 15 FT
STA 286+12.47, 60.00' LT (NEW US 51), ELEV 551.14

STEEL MAST ARM ASSEMBLY AND POLE, 40'
SIGNAL HEAD, POLCARBONATE, LED,
1-FACE, 3-SECTION, MAST ARM MOUNTED, 2 EACH
1-FACE, 3-SECTION, BRACKED MOUNTED, 1 EACH
TRAFFIC SIGNAL BACKPLATE, 2 EACH
CONCRETE FOUNDATION, TYPE E, 36" DIA. 13 FT
STA 287+08.05, 55.92 LT (NEW US 51)
ELEV 552.03

2 1/2" PVC
9' T

CONCRETE HANDHOLE, 1 EACH
STA 287+15.00, 50.00' LT (NEW US 51)
MATCH EXISTING GROUND ELEVATION

1 1/2" PVC
10' T

1 1/2" PVC
292' T

GULFBOX JUNCTION, 1 EACH
STA 290+03.21, 32.50' LT (NEW US 51)
MATCH EXISTING GROUND ELEVATION

US 51 (FAP 322)

POT Sta 285+19.71

285+00

POT Sta 288+58

290+00

3" PVC
42' T, 84' A

STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 55'
SIGNAL HEAD, POLCARBONATE, LED,
1-FACE, 3-SECTION, MAST ARM MOUNTED, 2 EACH
TRAFFIC SIGNAL BACKPLATE, 2 EACH
CONCRETE FOUNDATION, TYPE E, 36' DIA. 15 FT
STA 287+01.00, 60.00' RT (NEW US 51)
ELEV 552.01

GULFBOX JUNCTION, 1 EACH
STA 283+14.64, 39.00, RT (NEW US 51)
MATCH EXISTING GROUND ELEVATION

1 1/2" PVC
268' T

GULFBOX JUNCTION, 1 EACH
STA 285+82.06, 40.63' RT (NEW US 51)
MATCH EXISTING GROUND ELEVATION

1 1/2" PVC
37' T

CONCRETE HANDHOLE, 1 EACH
STA 285+99.87, 72.41' RT (NEW US 51)
MATCH EXISTING GROUND ELEVATION

2 1/2" PVC
8' T

2 1/2 " PVC
45' T,
59' A

191+00

1 1/2" PVC
26' T

FULL ACTUATED CONTROLLER
AND TYPE IV CABINET, 1 EACH
LIGHTING CONTROLLER-PHOTOCELL RELAY, 1 EACH
CONCRETE FOUNDATION, TYPE C, 3 FT
STA 287+15.00, 75.00' RT (NEW US 51)
ELEV 550.99

2 1/2" PVC
16' T

1 1/2" PVC
20' T

4" PVC
10' T

1 1/2" PVC
1' T
FOR USE BY MAKANDA FIRE DEPT.
REFER TO GENERAL NOTES

CONCRETE HANDHOLE, 1 EACH
STA 287+05.00, 75.00' RT (NEW US 51)
MATCH EXISTING GROUND ELEVATION

POT Sta 191+45.35

STEEL MAST ARM ASSEMBLY AND POLE, 40'
SIGNAL HEAD, POLCARBONATE, LED,
1-FACE, 3-SECTION, MAST ARM MOUNTED, 2 EACH
1-FACE, 3-SECTION, BRACKED MOUNTED, 1 EACH
TRAFFIC SIGNAL BACKPLATE, 2 EACH
CONCRETE FOUNDATION, TYPE E, 36" DIA. 13 FT
STA 286+05.38, 67.57' RT (NEW US 51)
ELEV 550.49

SOUTH ILLINOIS AVE. (FAS 1911)

FO

RET WALL

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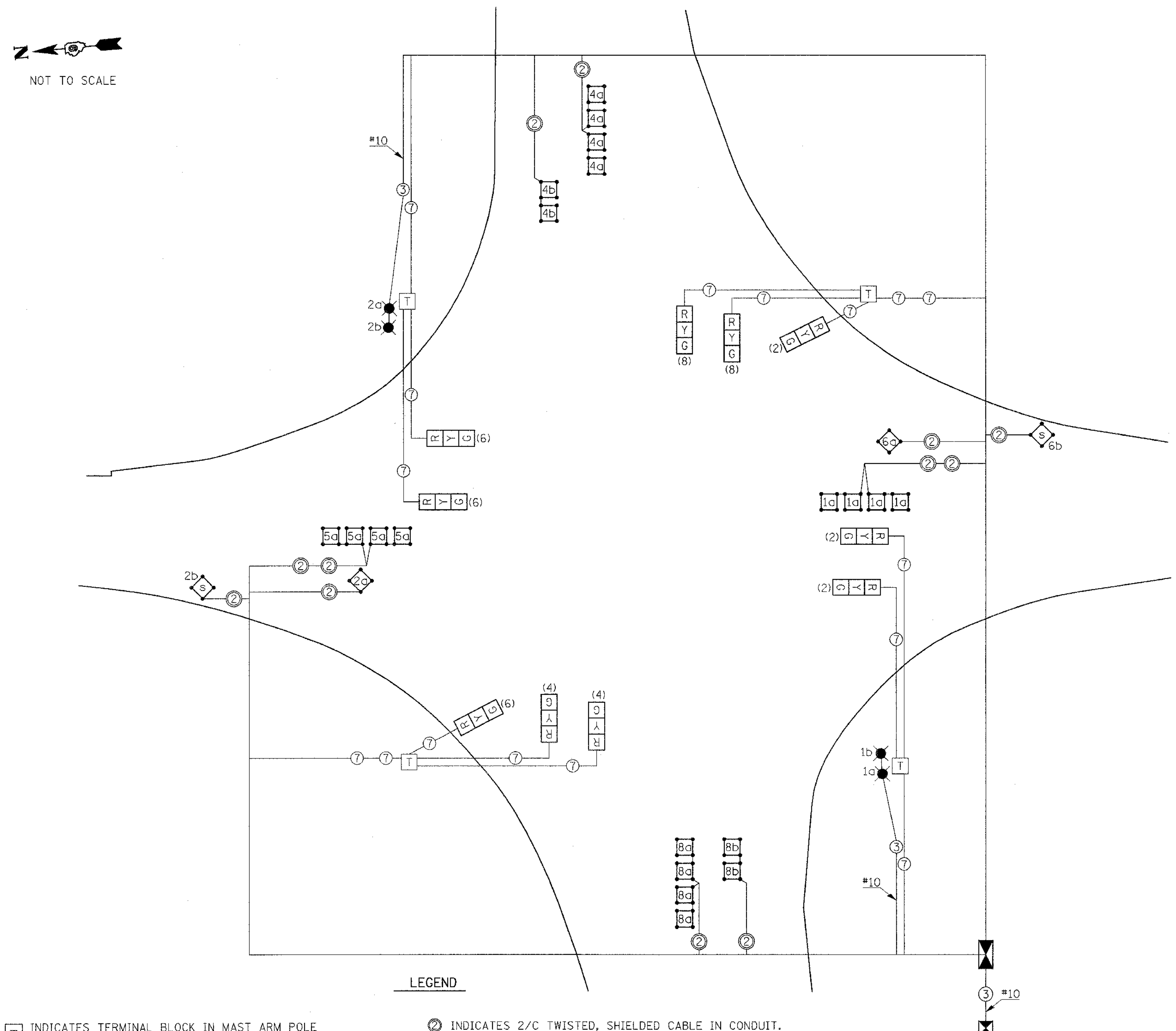
TRAFFIC SIGNAL & LIGHTING PLAN

F.A.S. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
1911	1OTS	JACKSON	8	6
STA.		TO STA.		
FED. ROAD DIST. NO. _		ILLINOIS	FED. AID PROJECT	



LEGEND

T INDICATES TERMINAL BLOCK IN MAST ARM POLE BASE (SEE SPECIAL PROVISIONS) SEE NOTE NO. 1.

INDICATES 6' x 6' DETECTOR LOOP WITH 2" CORE DRILLED CORNERS.

INDICATES 5' x 5' DETECTOR LOOP WITH 2" CORE DRILLED CORNERS. THESE LOOPS REQUIRE AMPLIFIERS WITH SYSTEM OUTPUT

G 12" TRAFFIC SIGNAL SECTION

TRAFFIC SIGNAL CONTROLLER CABINET

LIGHTING CONTROLLER WITH PHOTOCELL RELAY

2a S INDICATES 5' x 5' ADVANCE LOOP WITH 2" CORE DRILLLED CORNERS: NUMBER INDICATES PHASE, LOWER CASE LETTER INDICATES AMPLIFIER, "S" INDICATES SYSTEM LOOP.

(2) INDICATES 2/C TWISTED, SHIELDED CABLE IN CONDUIT.

(5) NUMBER IN CIRCLE INDICATES NUMBER OF CONDUCTORS IN THAT CABLE.

(2) (2) INDICATES MULTIPLE CABLES.

(4) NUMBER IN PARENTHESIS INDICATES PHASE.

1a NUMBER INDICATES PHASE; LETTER OR LETTERS IDENTIFY AMPLIFIER

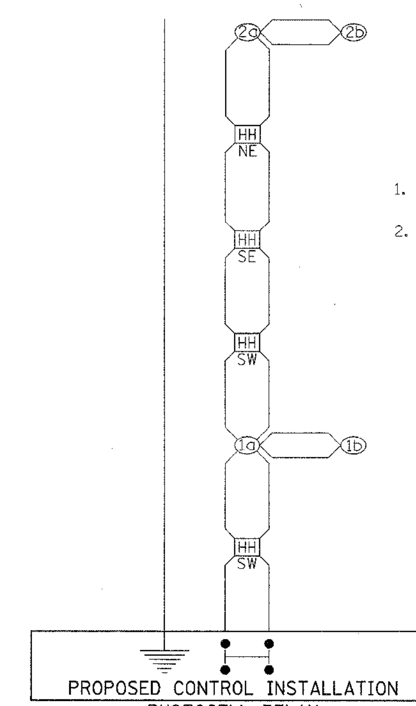
LUMINAIRE

NOTE: ALL CABLES SHALL BE A.W.G. #14 UNLESS OTHERWISE NOTED.

NOTES

1. ALL SIGNAL LENSES SHALL BE 12 INCHES.
2. ELECTRIC CABLE DENOTED AS #10, 3/C BEING INSTALLED TO THE COMBINATION MAST ARM POLES SHALL NOT GO THROUGH THE TERMINAL BLOCK BUT SHOULD BE SPLICED IN POLE. SEE LIGHT POLE FOUNDATION DETAIL.
3. ELECTRIC SERVICE IS SUPPLIED BY AMEREN CIPS.

WIRING DIAGRAM FOR ROADWAY LIGHTING



PHOTOCELL RELAY
20 AMP - 240 VOLT

NOTES

1. ALL LUMINAIRES ARE 250 WATTS.
2. ELECTRIC CABLE IN CONDUIT, 600 V (XLP-TYPE USE) 3/C NO 10 IS USED IN POLES OR LUMINAIRES.

LEGEND

HH INDICATES PROPOSED TRAFFIC SIGNAL HANDHOLE

NOTE: THE SIGNAL CONDUIT SYSTEM SHALL BE UTILIZED TO INSTALL WIRING FOR ALL THE PROPOSED LIGHTING SYSTEM, EXCEPT AS DENOTED ON THE PLANS.

HANDHOLE DESIGNTIONS:

NE	NORTHEAST CORNER
SW	SOUTHWEST CORNER
SE	SOUTHEAST CORNER

1a NUMBER INDICATES POSITION OF POLE IN WIRING DIAGRAM. LETTER INDICATES LUMINAIRE ON POLE.

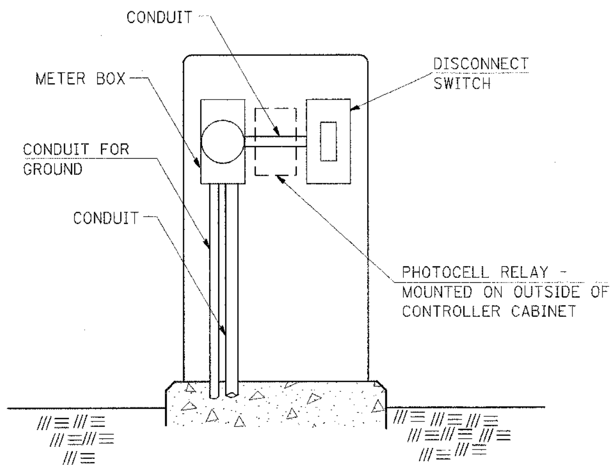
● INDICATES PROPOSED GROUND AT LIGHT STANDARD.

INDICATES CONTINUOUS GROUND FOR CONTROL INSTALLATION.

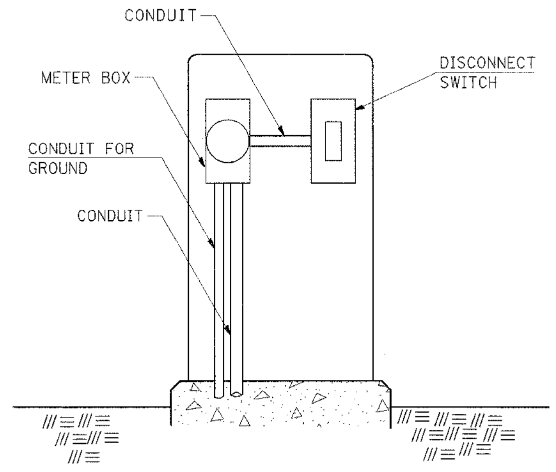
TRAFFIC SIGNAL CABLE DIAGRAM & WIRING DIAGRAM FOR ROADWAY LIGHTING

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	10 TS	JACKSON	8	7
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SERVICE INSTALLATION DETAILS



SERVICE INSTALLATION (SPECIAL)
WITH PHOTOCELL RELAY



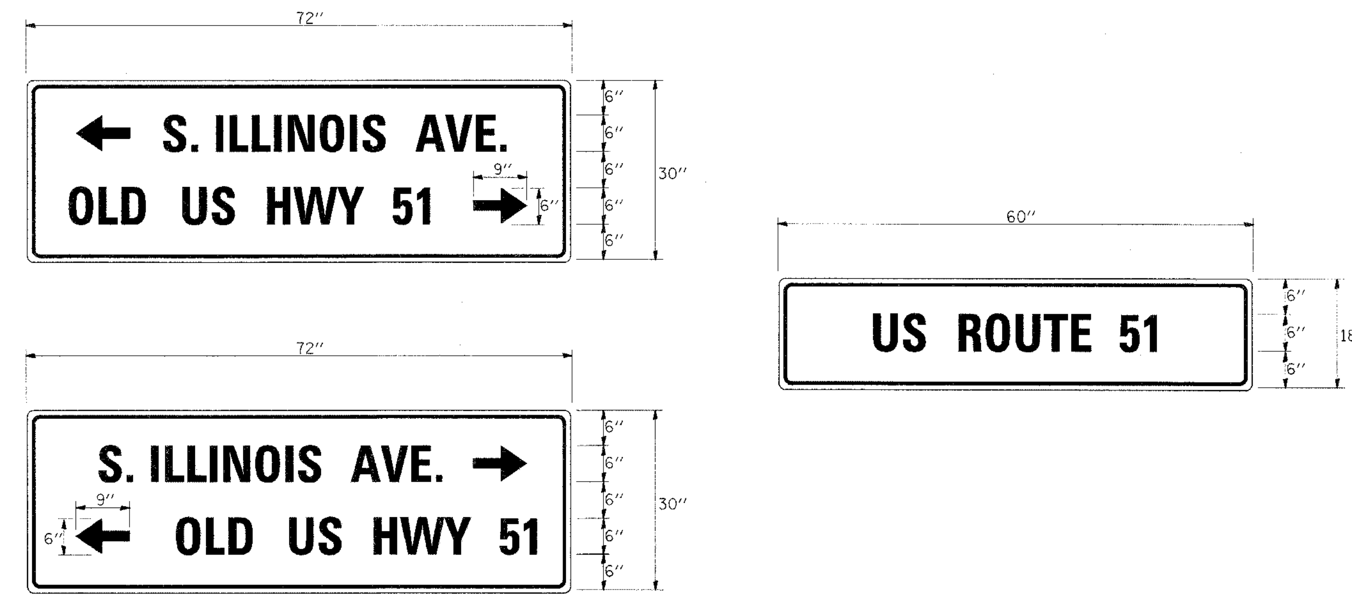
SERVICE INSTALLATION (SPECIAL)

NOTE:
MATERIAL AND SIZE OF CONDUIT AND CABLE AS REQUIRED BY UTILITY COMPANY

REVISIONS	
DRAWN	1-31-90
REVISED	2-24-92
REVISED	
REVISED	

STD. 9-68

SIGN PANELS
TYPE 1 & 2



DETAIL OF DETECTOR LOOPS

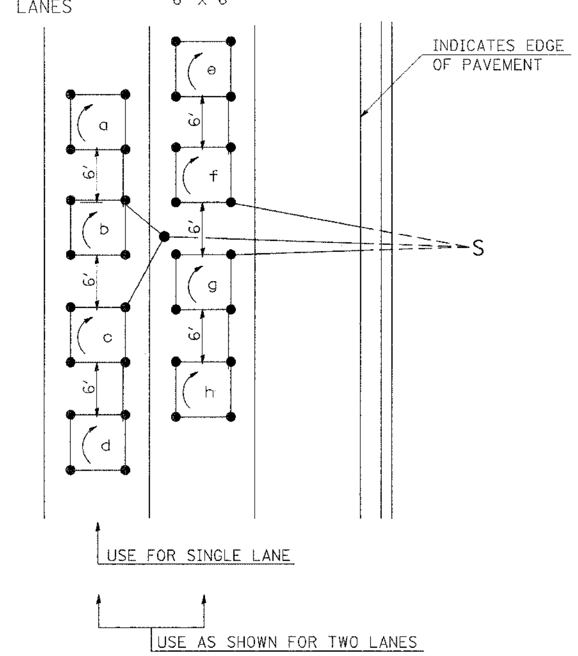
NOTES
(APPLIES TO 6' x 6' LOOPS ONLY)

1. THE DETECTOR LOOPS SHALL BE TYPE I. EACH DETECTOR LOOP SHALL HAVE 3 TURNS OF LOOP WIRE AND BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF SECTION 886 OF THE STANDARD SPECIFICATIONS FOR TRAFFIC CONTROL ITEMS.
2. BEGINNING LEAD WIRES SHALL BE CONNECTED TO THE BLACK LEAD AND THE ENDING LEAD WIRES SHALL BE CONNECTED TO THE WHITE LEAD OF THE TWIN TWISTED FEED CABLES AT THE SPLICE POINT.
3. WHERE THE LOOPS ARE INSTALLED PRIOR TO RESURFACING, THE LOOP CORNERS SHALL BE DIAGONALLY CUT.

LOOP LEGEND

(	CLOCKWISE ROTATION FOR LOOP WIRES
S	INDICATES SPLICE POINT FOR DETECTOR LOOP LEAD
●	INDICATES 2" CORE-DRILL

LOOP LAYOUT
ALL LOOPS ARE 6' x 6'

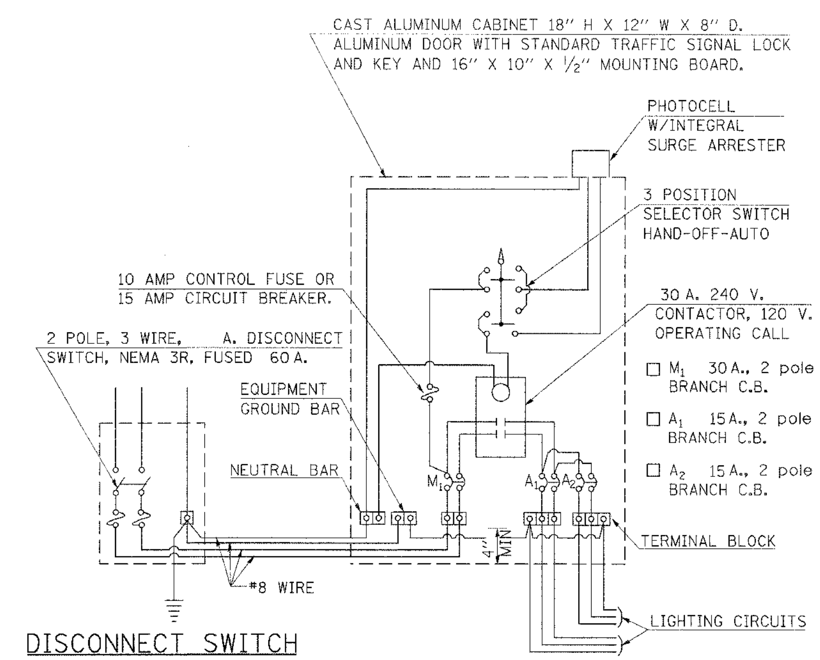


DETAIL 6' x 6' DETECTOR LOOPS

REVISIONS	
REDRAWN	5-13-02
REVISED	10-27-05
REVISED	
REVISED	

STD. 9-92

CONTROL INSTALLATION SIGNAL CABINET MOUNTED



DISCONNECT SWITCH

PHOTOCELL RELAY

REVISIONS	
DRAWN	5-13-02
REVISED	
REVISED	
REVISED	

STD. 9-113

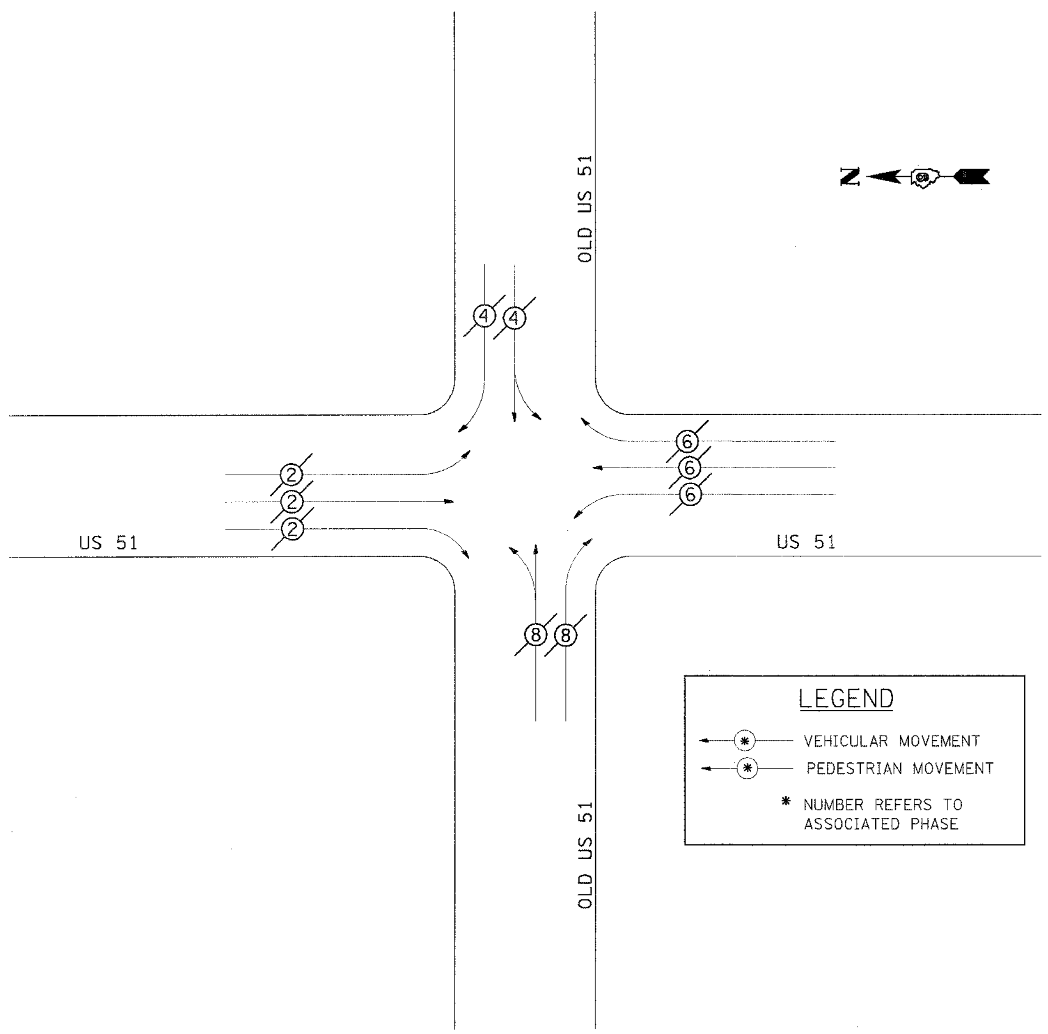
DETAILS: SERVICE INSTALLATION, DETECTOR LOOPS, CONTROL INSTALLATION SIGNAL CABINET MOUNTED, SIGN PANELS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	10 TS	JACKSON	8	8
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

PHASE DESIGNATION DIAGRAM

US 51 WITH OLD US 51

REFERRING TO STANDARD 857001, THE VEHICULAR AND PEDESTRIAN PHASES USED ARE DESIGNATED AS SHOWN.

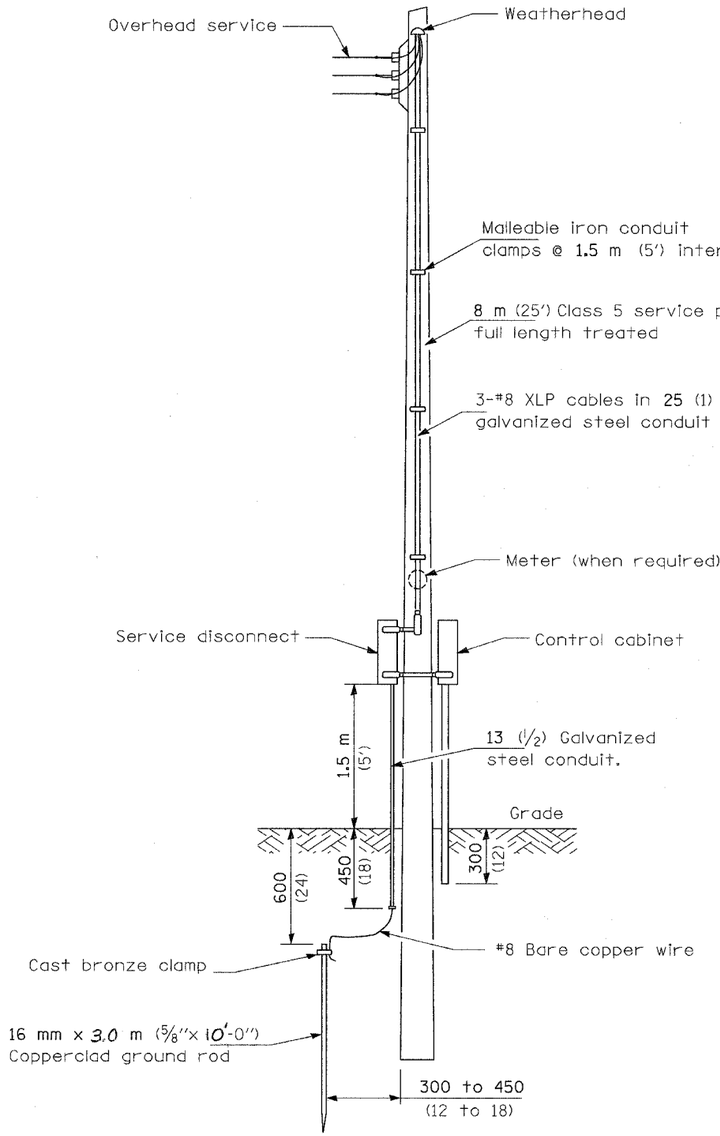


STD. 9-66

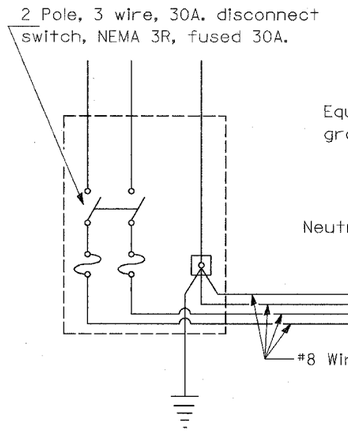
REVISIONS

DRAWN	1-31-90
REVISED	5-30-90
REVISED	12-18-01
REVISED	

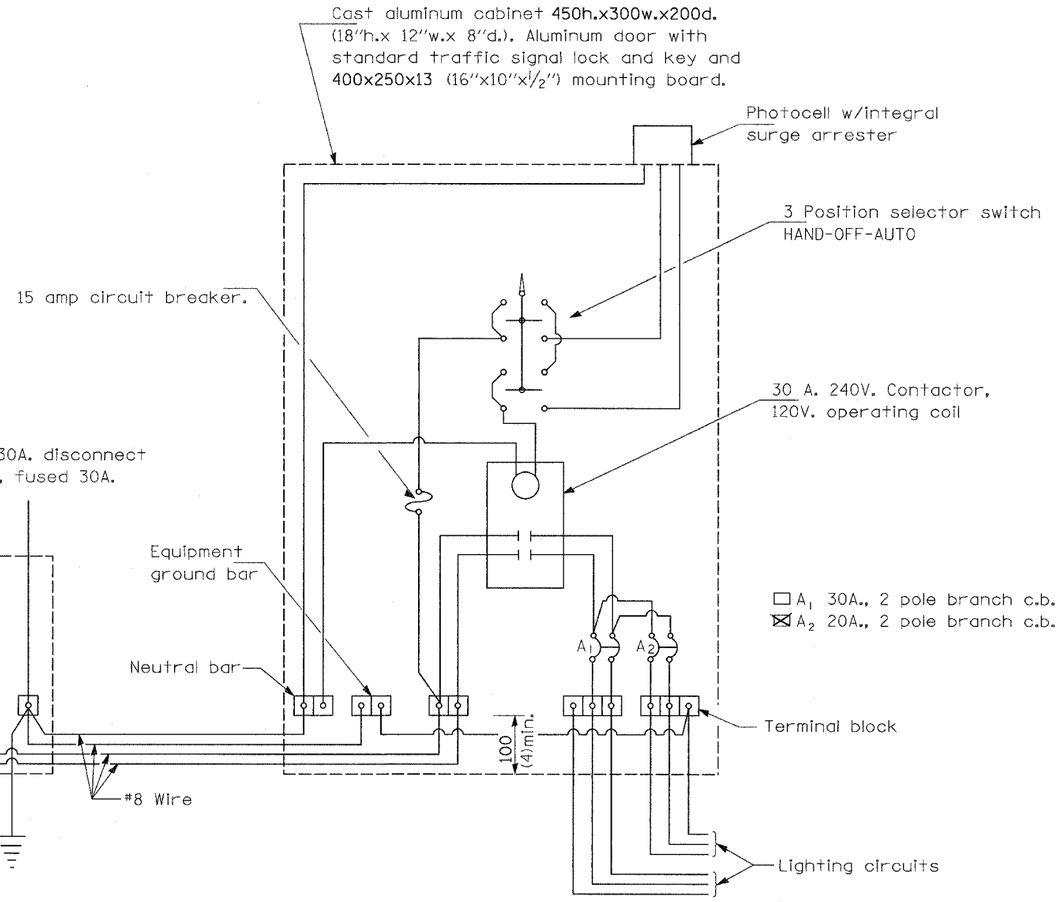
PHASE DESIGNATION DIAGRAM



SERVICE POLE



DISCONNECT SWITCH



PHOTOCELL RELAY

□ A_1 30A., 2 pole branch c.b.
☒ A_2 20A., 2 pole branch c.b.

GENERAL NOTES

All equipment shall be U.L. Listed.

All dimensions are in millimeters unless otherwise shown.

DATE	REVISIONS

Rev.

CONTROL INSTALLATION SERVICE POLE MOUNTED

120/240V., 1 PHASE, 3 WIRE SERVICE

LGT003.M32