

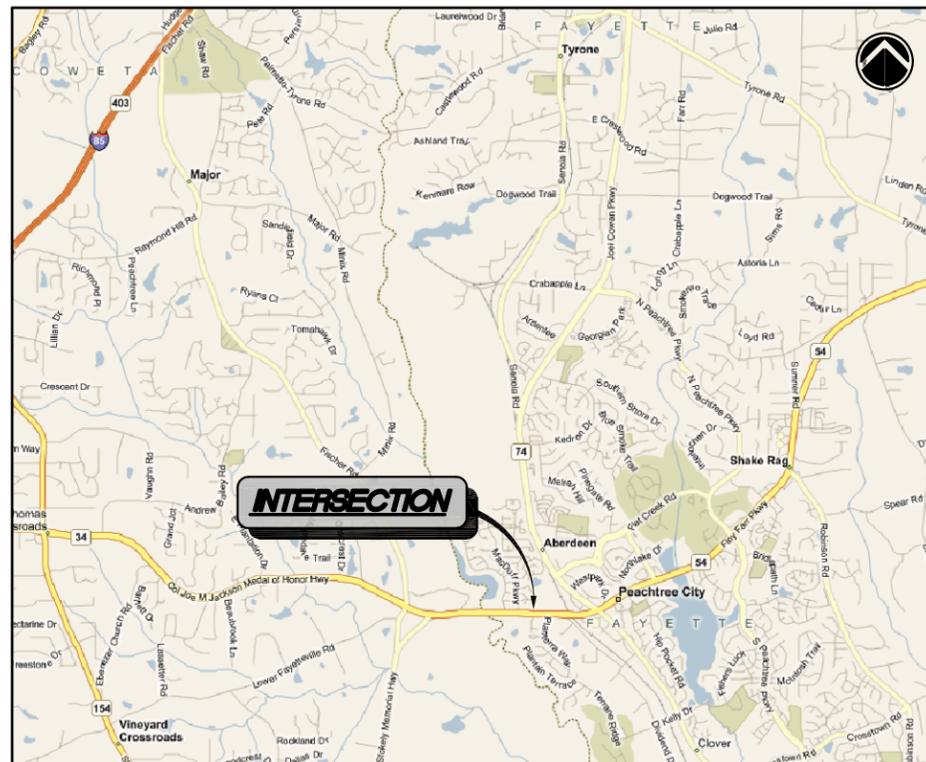
# TRAFFIC SIGNAL INSTALLATION

## LINE CREEK RETAIL

### PEACHTREE CITY, GEORGIA



**INTERSECTION LOCATION**  
N.T.S.



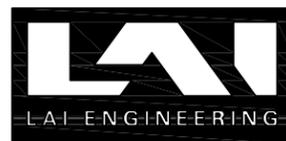
**VICINITY MAP**  
N.T.S.

**SHEET INDEX**

- 1 COVER SHEET
- 2 GENERAL NOTES
- 3 OVERHEAD STREET SIGN DETAIL
- 4 LEGEND
- 5 EXISTING PLAN
- 6 TRAFFIC SIGNAL INSTALLATION
- 7 COMMUNICATION PLAN
- 8 CCTV PLAN

PREPARED FOR  
**CAPITAL CITY  
DEVELOPMENT**

PREPARED BY



LAI ENGINEERING  
PARKWAY CENTER - 1800  
PARKWAY PL. - STE. 720  
MARIETTA, GA 30067  
PHONE: 770.423.0807  
FAX: 770.423.1262 EMAIL:  
INFO@LAIENGINEERING.COM

CAPITAL CITY DEVELOPMENT  
1601 RED CANYON ESTATES  
P.O. BOX 4939  
EDWARDS, CO 81632

**THIS INTERSECTION IS LOCATED 100% IN FAYETTE COUNTY, GEORGIA  
AND CONGRESSIONAL DISTRICT 8  
FUNCTIONAL CLASSIFICATION: URBAN PRINCIPAL ARTERIAL**

**TRAFFIC A.D.T.: 32,479  
SPEED DESIGN: 45 MPH**



**REVISION DATES**


**24-HR EMERGENCY CONTACT: GDOT TMC - GA 511**

**TRAFFIC SIGNAL GENERAL NOTES**

- 1 THE COMPLETE SIGNAL INSTALLATION SHALL CONFORM TO ALL APPROPRIATE PARTS OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES CURRENT EDITION.
- 2 SIGNAL HEADS SHALL BE ERECTED TO PROVIDE AT LEAST 17 FEET BUT NO MORE THAN 19 FEET CLEARANCE FROM BOTTOM OF SIGNAL HEADS TO TOP OF ROAD SURFACE AND A MINIMUM OF 8 FEET MEASURED HORIZONTALLY BETWEEN CENTERS OF SIGNAL FACES.
- 3 SHIELDED CABLE WILL BE USED FOR DETECTOR RUNS AS SHOWN ON THE GDOT DETAIL SHEET, DETECTORS SHALL HAVE SEPARATE LEAD-INS TO THE CONTROL CABINET.
- 4 THE CONTRACTOR SHALL LOCATE UNDERGROUND UTILITIES IN VICINITY OF NEW TRAFFIC SIGNAL POLES BEFORE INSTALLATION. AT THE DISCRETION OF THE GDOT ENGINEER, MINOR SHIFTS, (UP TO A MAXIMUM OF 5 FEET), IN LOCATION OF NEW SIGNAL POLES, ARE ACCEPTABLE TO AVOID UNDERGROUND UTILITIES. MINIMUM CLEARANCES FROM EDGE OF PAVEMENT SHALL BE MAINTAINED. PLACEMENT OF THE SIGNAL HEADS SHALL BE RETAINED AS SHOWN ON THE PLANS.
- 5 THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL NEW GUYS ON EXISTING UTILITY TIMBER POLES WHEN ATTACHING SPAN WIRE OR INTERCONNECT CABLE TO THE POLES UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- 6 INSTALLATION IS TO BE CHECKED AND ACCEPTED BY THE DISTRICT TRAFFIC ENGINEER PRIOR TO FINAL ACCEPTANCE.
- 7 MATERIAL CERTIFICATION IS REQUIRED PRIOR TO BEGINNING "ANY" SIGNAL INSTALLATION WORK. THE CONTRACTOR SHALL FOLLOW PROCEDURES OUTLINED IN THE GDOT SPECIFICATION. (GDOT SPEC #925)
- 8 THE INSTALLATIONS SHALL BE CAPABLE OF "CLOSED LOOP" ISOLATED MONITORING OVER TELEPHONE LINES FROM EXISTING CENTRAL COMPUTERS. MONITORING WILL BE LOCATED AT BOTH THE LOCAL GDOT DISTRICT OFFICE, TRAFFIC ENGINEERING SECTION, AND  
  
THE GDOT OFFICE OF TRAFFIC ELECTRICAL FACILITIES,  
115 TRANSPORTATION BOULEVARD  
THOMASTON, GEORGIA 30286-4524.  
  
CLOSED LOOP SYSTEM DEMONSTRATION IS REQUIRED AT BOTH CENTRAL SITES, NOTED PRIOR TO FINAL ACCEPTANCE.
- 9 ALL EXISTING STOP BARS AND CROSSWALKS THAT ARE NOT REMOVED OR RELOCATED SHALL BE IN ACCORDANCE WITH CURRENT GDOT STANDARDS. UPGRADES TO STANDARDS MAY BE NECESSARY.
- 10 PROPOSED SIGNAL SUPPORT WIRE ATTACHMENT HEIGHTS ON POLES ARE PROVIDED AS GENERAL GUIDELINES TO INSTALLER, ACTUAL ATTACHMENT HEIGHTS SHALL BE FIELD DETERMINED BY INSTALLER TO PROVIDE REQUIRED SIGNAL HEAD MOUNTING HEIGHTS AND CLEARANCE FROM EXISTING UTILITIES, IN ACCORDANCE WITH NOTE #2.
- 11 SAWCUTS AND REMOVAL OF ALL CONCRETE ASSOCIATED WITH CURB CUT RAMPS SHALL BE INCLUDED IN THE SIDEWALK PAY ITEM. (610-0355)
- 12 THE CONTRACTOR SHALL REPLACE IN KIND AND SIZE, AT NO SEPARATE EXPENSE TO THE DEPARTMENT, ANY BARRIER WALL, FENCE, DITCH PAVING, CURBING, SIDEWALK, GUTTER, SLOPE PAVEMENT, SIGNS, GUARDRAILS, LANDSCAPING, GRASSINGS, UTILITY SERVICE LINES, STORM DRAIN PIPES, MASONRY WALLS AND PAVING THAT IS REMOVED, DAMAGED OR DESTROYED, AS A RESULT OF CONTRACTOR NEGLIGENCE.
- 13 THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL PERTINENT EROSION CONTROL. THESE MEASURES SHALL BE IMPLEMENTED AND MAINTAINED FOR THE DURATION OF THE WORK, IN ACCORDANCE WITH THE CURRENT STANDARDS.
- 14 ANY TRAFFIC MARKING, SYMBOLS OR STRIPING TO BE REMOVED SHALL BE PAID FOR IN THE TRAFFIC CONTROL LUMP SUM ITEM.
- 15 NOTICE OF INTENT (NOI) IS NOT REQUIRED FOR THIS PROJECT.
- 16 TRAFFIC SIGNAL INSTALLATION SHALL FOLLOW AND COMPLY WITH ALL APPROPRIATE GEORGIA DEPARTMENT OF TRANSPORTATION TRAFFIC AND SIGNAL DETAILS AND STANDARDS.

**GENERAL NOTES FOR SIGNING**

- 1 ALL STANDARD HIGHWAY SIGNS SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE DETAILS SHOWN IN THE PLANS, THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION, AND THE GEORGIA STANDARD SPECIFICATIONS, SUPPLEMENTAL SPECIFICATIONS AND/OR SPECIAL PROVISION.
- 2 SIGN ERECTION LOCATIONS ARE APPROXIMATE AND MAY BE ADJUSTED TO MEET FIELD CONDITIONS WHERE NECESSARY, BUT SHALL BE WITHIN THE LIMITATIONS SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION. NO SIGN LOCATION SHALL BE CHANGED BY THE CONTRACTOR OR BY THE PROJECT ENGINEER WITHOUT PRIOR APPROVAL FROM THE DISTRICT 3 OFFICE OF TRAFFIC OPERATIONS. (770-646-6688)
- 3 ALL STANDARD HIGHWAY SIGNS SHALL BE ERECTED AT THE HEIGHT OF 7 FEET ABOVE THE NORMAL EDGE OF PAVEMENT TO THE BOTTOM OF THE SIGN OR ASSEMBLY.
- 4 HORIZONTAL CLEARANCE FOR STANDARD HIGHWAY SIGNS SHALL BE 6 FEET FROM THE EDGE OF THE PAVED SHOULDER OR 12 FEET FROM THE NORMAL EDGE OF PAVEMENT TO THE NEARER EDGE OF THE SIGN(S), WHICHEVER IS GREATER. THE HORIZONTAL CLEARANCE IN NON-MOUNTABLE CURB SECTION SHALL BE AT LEAST 2 FEET FROM THE CURB FACE TO THE NEARER EDGE OF THE SIGN(S).
- 5 TYPE III (ENCAPSULATED LENS) REFLECTIVE SHEETING SHALL BE USED FOR ALL STANDARD HIGHWAY SIGNS REQUIRING REFLECTORIZED BACKGROUNDS EXCEPT AS SPECIFIED BELOW OR SPECIFIED OTHERWISE IN THE PLANS. EITHER CLASS 1 OR CLASS 2 ADHESIVE BACKING IS PERMISSIBLE.
- 6 TYPE VI (WIDE ANGLE PRISMATIC) REFLECTIVE SHEETING SHALL BE USED FOR ALL RED SERIES SIGNS (R1-1, R1-2, R1-3A, R1-4A, R5-1), WARNING SIGNS AND OVERHEAD SIGNS.
7. THE CONTRACTOR WILL BE RESPONSIBLE FOR PREPARING A TRAFFIC CONTROL PLAN SHOWING THE PROPOSED MEASURES TO MANAGE TRAFFIC DURING CONSTRUCTION ACTIVITIES. THE PLAN SHALL CONFORM TO THE 2003 MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AND GEORGIA DOT SPECIFICATION 150. ANY LANE CLOSURES MUST BE APPROVED BY AND COORDINATED WITH THE GEORGIA DOT AREA ENGINEER. LANE CLOSURES WILL REQUIRE PROPER LANE TAPERS AND ADVANCE WARNINGS PER GEORGIA DOT STANDARDS.
8. PROPOSED LANE CLOSURES WILL BE ALLOWED DURING THE OFF-PEAK PERIOD OF A TYPICAL WORK DAY. HOLIDAYS AND WEEKENDS ARE EXCLUDED. PEAK PERIOD FOR THIS SEGMENT OF ROADWAY IS CONSIDERED 6:30 TO 9:00 AM AND FROM 4:00 TO 7:00 PM.

**NOTES:**  
UTILITY DISCLAIMER: EXISTING UTILITY LINES SHOWN ARE APPROXIMATE LOCATIONS ONLY. THE CONTRACTOR/INSTALLER SHALL FIELD VERIFY ALL EXISTING UTILITY LINE LOCATIONS PRIOR TO ANY CONSTRUCTION. DAMAGE TO EXISTING UTILITY LINES RESULTING FROM THE CONTRACTORS/INSTALLERS NEGLIGENCE SHALL BE REPAIRED AT THE CONTRACTORS/INSTALLERS EXPENSE.  
  
CONTRACTOR/INSTALLER SHALL CONTACT UTILITY LOCATOR SERVICE, GA 511, & FAYETTE COUNTY AT 706-646-6687 PRIOR TO ANY CONSTRUCTION. EXISTING POLE ATTACHMENT DATA IS APPROXIMATE AND IS PROVIDED AS A GENERAL GUIDELINE TO THE CONTRACTOR/INSTALLER TO AID IN IDENTIFYING POTENTIAL INSTALLATION CONFLICTS, THE CONTRACTOR/INSTALLER SHALL PROVIDE APPROPRIATE N.E.C. CLEARANCES FROM EXISTING UTILITIES.

UTILITY OWNER	SERVICE	CONTACT NUMBERS
COWETA-FAYETTE EMC	ELECTRICAL	770-502-0226
GEORGIA POWER	ELECTRICAL	888-660-5890
ATLANTA GAS LIGHT CO.	GAS	770-994-1946
BELLSOUTH	PHONE	888-764-2500
COMCAST (PEACHTREE CITY)	CABLE	866-571-1276
WATER & SEWER (PEACHTREE CITY)	WATER & SEWER	770-487-7993
FAYETTEVILLE MUNICIPAL	SANITATION SERVICES	770-461-6029

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 PEACHTREE CITY, GEORGIA  
 FAYETTE COUNTY

LAI ENGINEERING  
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 MARIETTA, GA 30067  
 PHONE: 770-423-0807  
 FAX: 770-423-1262  
 WWW.LAIENGINEERING.COM



JOB NO: 889  
DWG NAME:

GENERAL NOTES  
PLAN

SHEET  
2

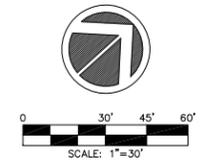
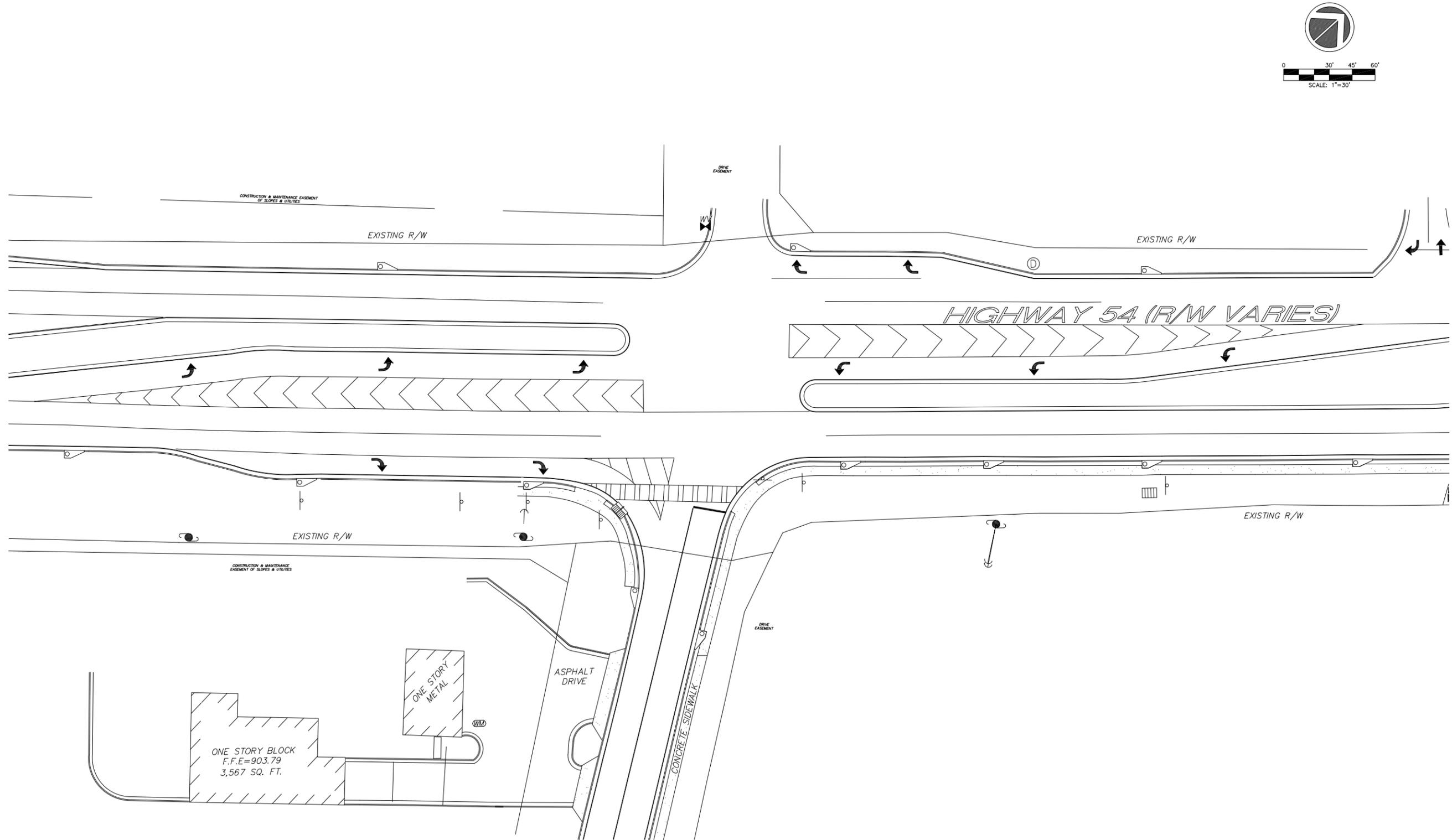
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# EXISTING PLAN



REVISIONS


**LINE CREEK RETAIL**  
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**CAPITAL CITY DEVELOPMENT**  
 PEACHTREE CITY, GEORGIA

LAI ENGINEERING  
 PARKWAY CENTER -  
 1800 PARKWAY PL. - STE. 720  
 MARIETTA, GA 30067  
 PHONE: 770.423.0807  
 FAX: 770.423.1262  
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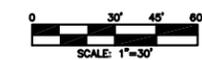
EXISTING PLAN

SHEET:  
**5**

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# TRAFFIC SIGNAL INSTALLATION

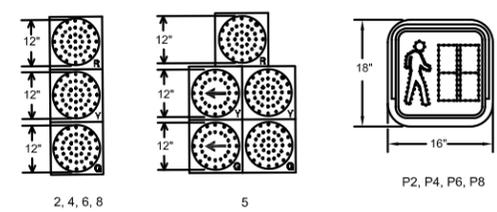
REVISIONS



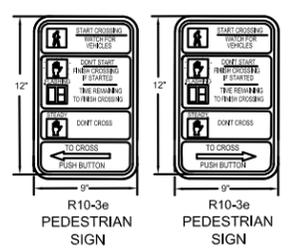
332 CABINET INPUT ASSIGNMENT

SLIP	1	2	3	4	5	6	7	8	9	10	11	12	13	14
UPPER INPUT FILE														
TYPE	DET	DET	DET	DET	DET	DET	DET	DET	DET	TRM	TRM	IC	IC	IC
CHNL 1	CI FN	36	39	43	47	50	48	45	49	48	08	47	48	41
FUNCTION	L2B	L2B	T2B 5.6	T2B 5.6	T2B 5.6	L2B	T2B 5.6	T2B 5.6	T2B 5.6	T2B 5.6	IC PED	IC PED	FLASH	MC
FIELD	TRM	TRM 3.4	TRM 5.6	TRM 5.6	TRM 3.4	TRM 7.8	TRM 5.6	TRM 5.6	TRM 5.6	TRM 5.6	TRM 4.6	TRM 7.8	TRM 6.0	MC
LOWER INPUT FILE														
TYPE	DET	DET	DET	DET	DET	DET	DET	DET	DET	TRM	TRM	IC	IC	IC
CHNL 1	CI FN	35	40	44	48	52	56	60	64	75	73	74	72	71
FUNCTION	L2B	L2B	T2B 5.6	T2B 5.6	T2B 5.6	L2B	T2B 5.6	T2B 5.6	T2B 5.6	IC PED	IC PED	FLASH	MC	MC
FIELD	TRM	TRM 3.4	TRM 5.6	TRM 5.6	TRM 3.4	TRM 7.8	TRM 5.6	TRM 5.6	TRM 5.6	TRM 5.6	TRM 4.6	TRM 7.8	TRM 6.0	MC
LOWER INPUT FILE														
TYPE	DET	DET	DET	DET	DET	DET	DET	DET	DET	TRM	TRM	IC	IC	IC
CHNL 2	CI FN	35	44	77	48	57	46	79	30	61	75	73	74	72
FUNCTION	L2B	L2B	T2B 5.6	T2B 5.6	T2B 5.6	L2B	T2B 5.6	T2B 5.6	T2B 5.6	IC PED	IC PED	FLASH	MC	MC
FIELD	TRM	TRM 3.4	TRM 5.6	TRM 5.6	TRM 3.4	TRM 7.8	TRM 5.6	TRM 5.6	TRM 5.6	TRM 5.6	TRM 4.6	TRM 7.8	TRM 6.0	MC

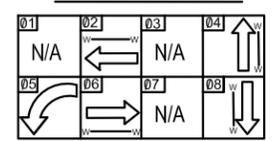
TRAFFIC AND PEDESTRIAN SIGNAL HEADS



PEDESTRIAN SIGNS

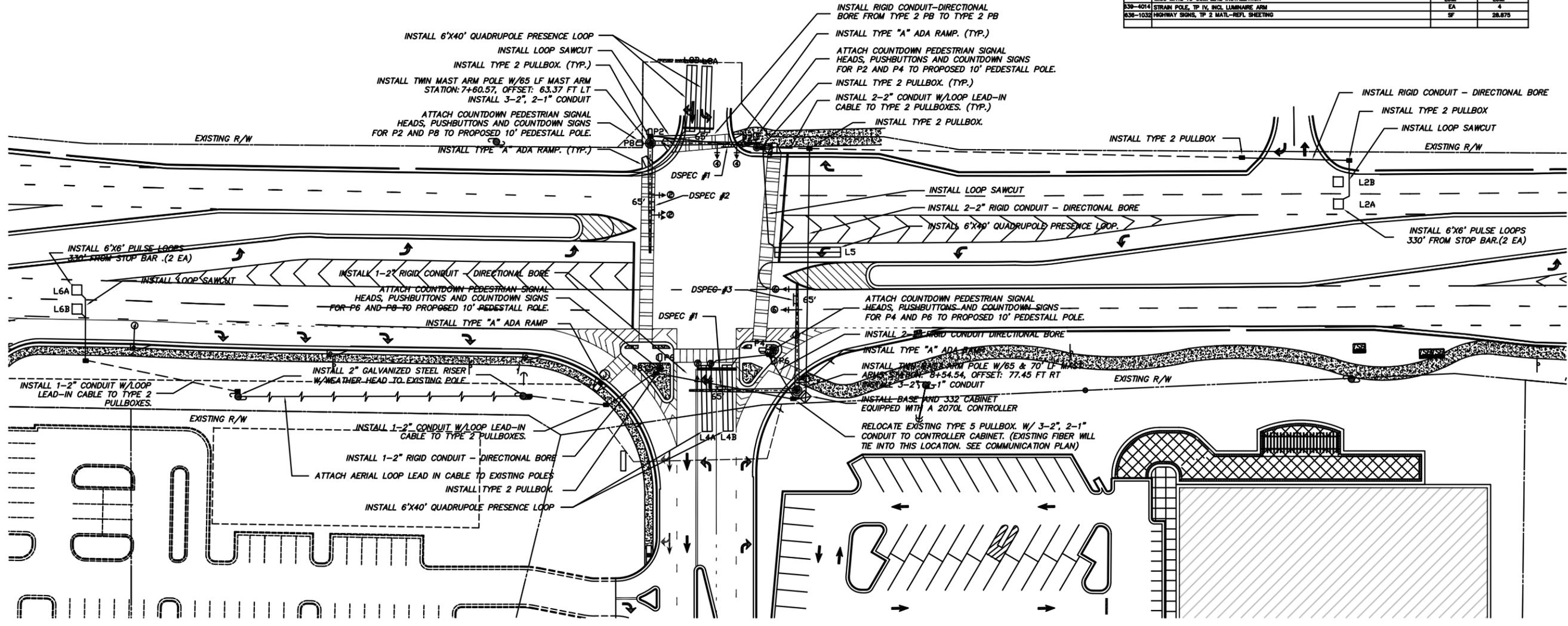


PHASING DIAGRAM



LIST OF MATERIALS

ITEM NO.	DESCRIPTION	UNITS	QUANTITY
847-1000	TRAFFIC SIGNAL INSTALLATION NO. 1	LUMP	1
	CONTROLLER CABINET ASSEMBLIES	LUMP	
	A. CONTROLLER UNIT, MODEL 2070L	EA	1
	D. CABINET ASSEMBLY, MODEL 332	EA	1
	E. SWITCH PACK	EA	10
	F. DC ISOLATOR	EA	2
	G. LOOP DETECTOR, 2 CHANNEL	EA	4
	H. LOOP DETECTOR, 4 CHANNEL	EA	2
	J. 2010 CONFLICT MONITOR, EXTENDED FEATURES	EA	1
	K. BATTERY BACKUP SYSTEM	EA	1
	1. EXTERNAL MOUNTED, (per GDOT spec)	EA	1
	HAYES SMARTMODEM (OR EQUIVALENT), 33.6 KB/S	EA	1
	TELEPHONE LINE DEDICATION AND MODEM HOOK-UP	EA	1
	PC942-200 (OR EQUIVALENT), SURGE PROTECTOR	EA	1
	LOOP/PEDESTRIAN LEAD-IN WIRE (SHIELDED, TWISTED/1000 FT)	REEL	3
	A. 3 PAIR, 18 AWG	REEL	3
	B. 7 CONDUCTOR, PER 1000 FT.	REEL	3
	LOOP DETECTOR WIRE (14 AWG, STRANDED/1000 FT)	REEL	2
	ONE-WAY, 3-SECTION, 12" LED SIGNAL HEAD, PLASTIC	EA	7
	ONE-WAY, 5-SECTION, 12" LED SIGNAL HEAD (CLUSTER), PLASTIC	EA	1
	18" PEDESTRIAN LED SIGNAL HEAD, SIDE BY SIDE, COUNTDOWN	EA	8
	PEDESTRIAN PUSH BUTTON AND SIGN	EA	8
	BACK PLATE FOR ONE-WAY, 3-SECTION, 12" SIGNAL HEAD	EA	7
	BACK PLATE FOR ONE-WAY, 5-SECTION, 12" SIGNAL HEAD	EA	1
	HARDWARE FOR PEDESTRIAN DIRECTION FOR 18" PEDESTRIAN	EA	8
	SIGNAL HEADS, ONE-WAY MOUNTING	EA	4
	PEDESTAL POLE 10 FT	EA	4
	PULL BOX, PB-2	EA	12
	PULL BOX, PB-5	EA	1
	LOOP SAW CUT	LF	105
	CONDUIT, 1"	LF	290
	CONDUIT, 2"	LF	435
	GALVANIZED STEEL RISER 2"	EA	2
	MISC MATL TO COMPLETE INSTALLATION	LUMP	2
838-4014	STRAN POLE, TP IV, INCL LUMINAIRE ARM	LUMP	4
838-1032	HIGHWAY SIGNS, TP 2 MATL-REFL SHEETING	SF	28,875



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LAI ENGINEERING  
PARKWAY CENTER  
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MARIETTA, GA 30067  
PHONE: 770.423.0807  
FAX: 770.423.1262  
WWW.LAIENGINEERING.COM



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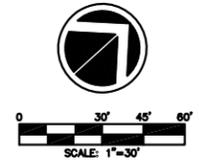
SIGNAL PLAN

SHEET  
**6**

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# COMMUNICATION PLAN

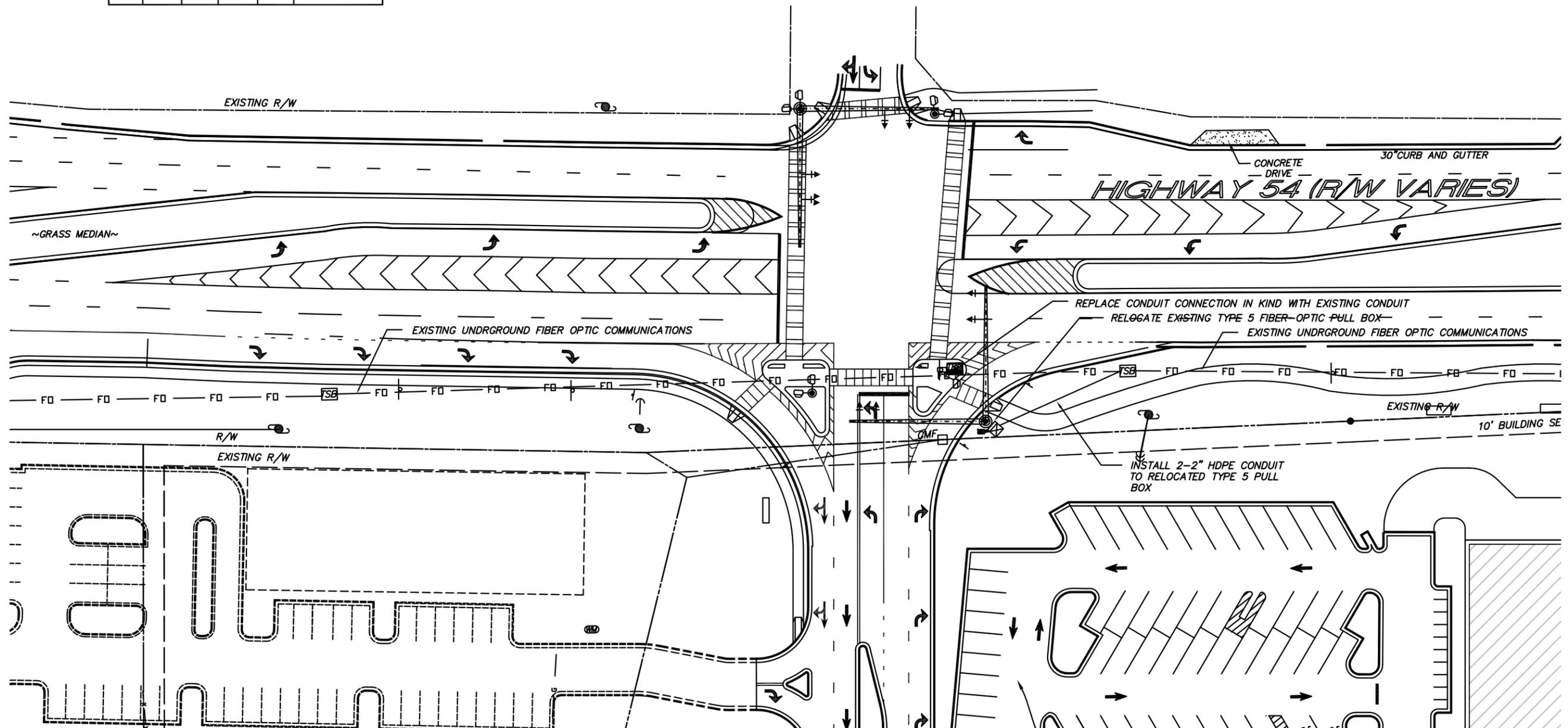


## FIBER DROP ALLOCATION

TRAFFIC SIGNAL AT highway 54 AND LINE CREEK - DROP CABLE SPLICE					
DROP CABLE					
MODE	RIBBON NUMBER	COLOR	FIBER NUMBER	COLOR	SIGNAL SYSTEM CONTROL FUNCTION
SINGLE	1	BLUE	1	BLUE	TX1
			2	ORANGE	RX1
			3	GREEN	SPARE
			4	BROWN	TX2
			5	SLATE	RX2
			6	WHITE	SPARE

## LEGEND

- FO—FO— EXISTING UNDERGROUND FIBER OPTIC COMMUNICATIONS
- PROPOSED AERIAL FIBER OPTIC COMMUNICATIONS
- ☒ SIGNAL CONTROL CABINET
- ⊙ TRAFFIC SIGNAL POLE



## REVISIONS

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CAPITAL CITY DEVELOPMENT  
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LAI ENGINEERING  
PARKWAY CENTER -  
1800 PARKWAY PL. - STE. 720  
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PHONE: 770.423.0807  
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DWG NAME

COMMUNICATION PLAN

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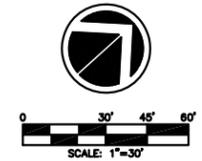
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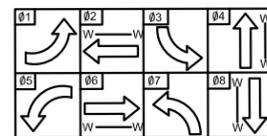
# CCTV INSTALLATION



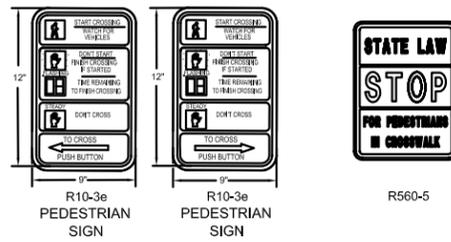
## 332 CABINET INPUT ASSIGNMENT

		SLOT	1	2	3	4	5	6	7	8	9	10	11	12	13	14
		UPPER INPUT FILE														
CHANNEL 1	TYPE	RET	RET	RET	RET	RET	RET	RET	RET	RET	TMA	TMA	IC	IC	IC	
	CHD															
	CI PIN															
	FUNCTION															
		LOWER INPUT FILE														
CHANNEL 1	TYPE	RET	RET	RET	RET	RET	RET	RET	RET	RET	TMA	TMA	IC	IC	IC	
	CHD															
	CI PIN															
	FUNCTION															
CHANNEL 2	CI PIN	33	44	77	48	57	46	79	39	61	73	73	74	52		
	FUNCTION															
	FIELD															
	TRM															

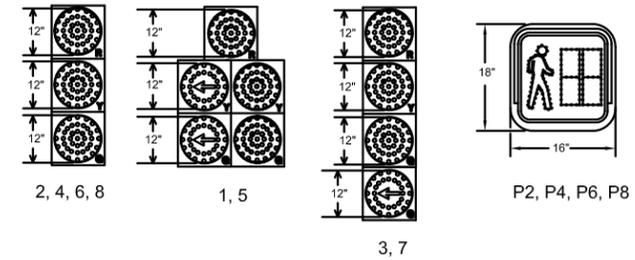
## PHASING DIAGRAM



## PEDESTRIAN SIGNS

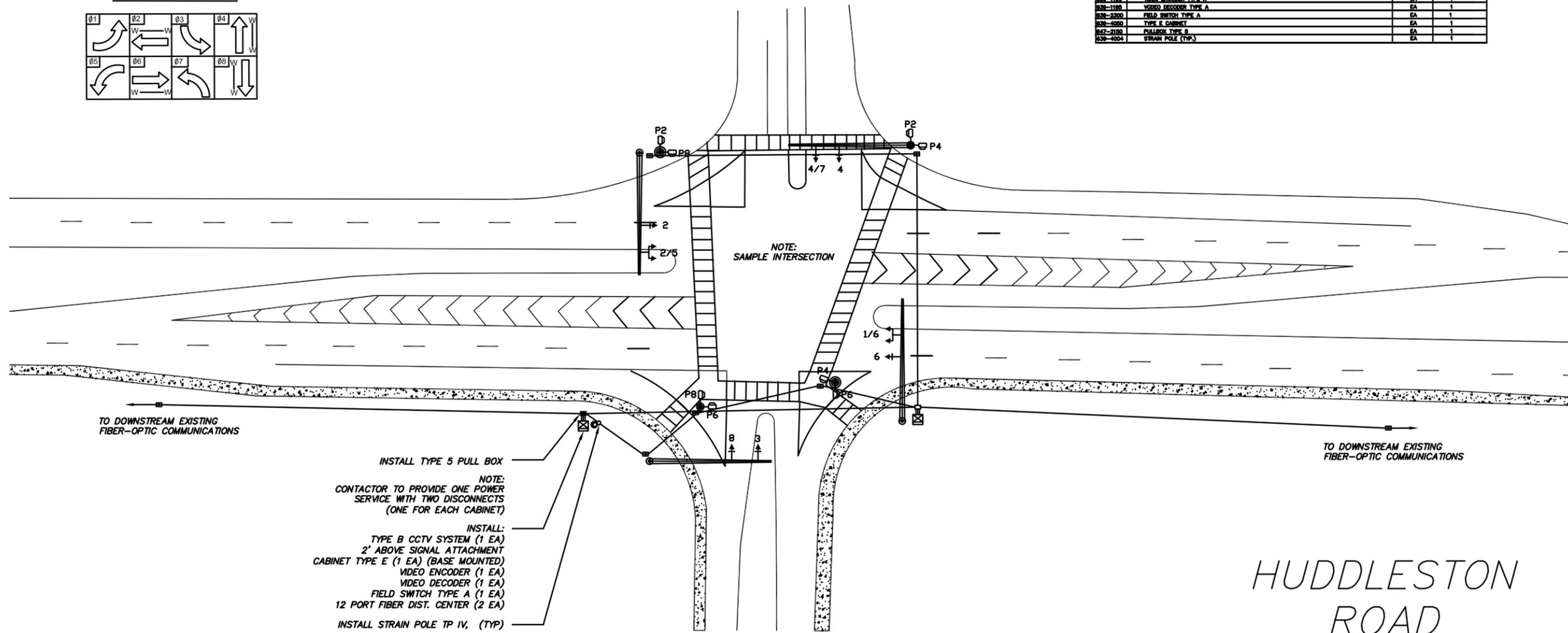


## TRAFFIC AND PEDESTRIAN SIGNAL HEADS



## LIST OF MATERIALS

ITEM NO.	DESCRIPTION	UNITS	QUANTITY
838-1001	CCTV SYSTEM, TYPE B	EA	1
838-1180	VIDEO ENCODER, TYPE A	EA	1
838-1186	VIDEO DECODER, TYPE A	EA	1
838-3300	FIELD SWITCH, TYPE A	EA	1
838-4000	TYPE E CABINET	EA	1
842-5100	PULLBOX, TYPE B	EA	1
838-4004	STRAIN POLE (TYP.)	EA	1



INSTALL TYPE 5 PULL BOX

NOTE:  
CONTRACTOR TO PROVIDE ONE POWER SERVICE WITH TWO DISCONNECTS (ONE FOR EACH CABINET)

INSTALL:  
TYPE B CCTV SYSTEM (1 EA)  
2' ABOVE SIGNAL ATTACHMENT  
CABINET TYPE E (1 EA) (BASE MOUNTED)  
VIDEO ENCODER (1 EA)  
VIDEO DECODER (1 EA)  
FIELD SWITCH TYPE A (1 EA)  
12 PORT FIBER DIST. CENTER (2 EA)  
INSTALL STRAIN POLE TP IV, (TYP)

HUDDLESTON  
ROAD

## REVISIONS

NO.	DESCRIPTION

Planterra Way Signal Design

PREPARED FOR  
GEORGIA DEPARTMENT OF TRANSPORTATION  
FAYETTE COUNTY, GEORGIA

LAI ENGINEERING  
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MARIETTA, GA 30067  
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CCTV  
PLAN

SHEET:  
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