



**INVITATION TO BID FOR CONSTRUCTION  
OF A MID-BLOCK PEDESTRIAN CROSSING  
Gateway85 Gwinnett CID  
May 29, 2018**

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**Bid Due to the CID by: June 8, 2018, 2:00 PM EDT**

See below for the plan set for this project. Please note that plans are currently under review by the Georgia Department of Transportation, and, while we do not anticipate any major changes, the plans are subject to change. Should the plans require any updating, the CID will post the updated plan set on its website. Please consult the CID website to check for any changes to the plan prior to submitting a bid. The CID is not responsible for any bidder's failure to confirm their bid's conformity with any plans or updates issued by the CID prior to the bid due date.

# GATEWAY 85 GWINNETT COMMUNITY IMPROVEMENT DISTRICT

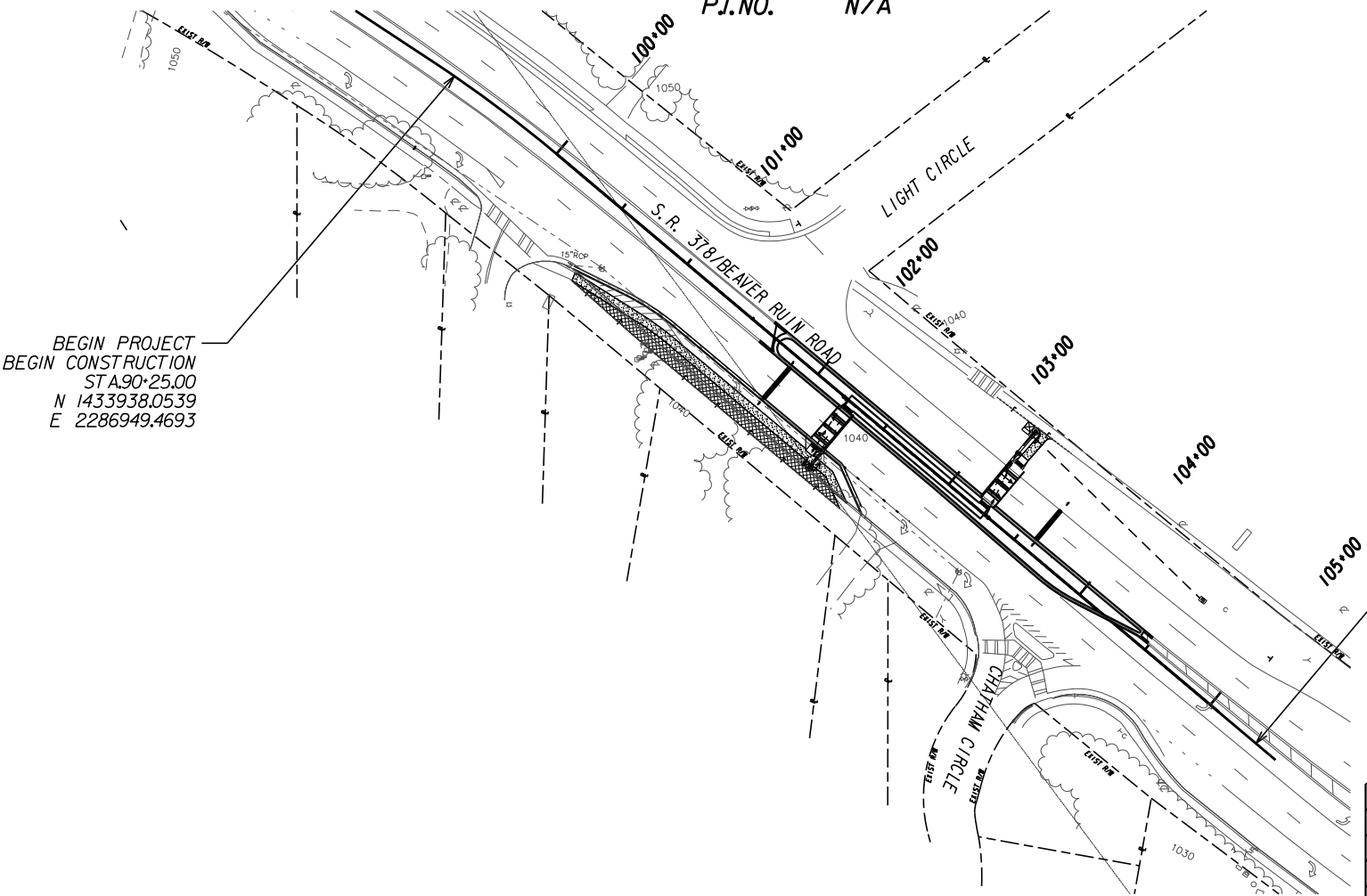
## PLAN OF PROPOSED PEDESTRIAN HYBRID BEACON SIGNAL SR 378/ BEAVER RUIN ROAD AT LIGHT CIRCLE

### GWINNETT COUNTY

FEDERAL ROUTE • N/A  
STATE ROUTE • 378  
P.J.NO. N/A

NOTE :  
ALL REFERENCES IN THIS DOCUMENT,WHICH INCLUDES ALL PAPERS,WRITINGS,  
DOCUMENTS,DRAWINGS,OR PHOTOGRAPHS USED,OR TO BE USED IN CONNECTION  
WITH THIS DOCUMENT,TO "STATE HIGHWAY DEPARTMENT OF GEORGIA","STATE  
HIGHWAY DEPARTMENT","GEORGIA STATE HIGHWAY DEPARTMENT","HIGHWAY  
DEPARTMENT",OR "DEPARTMENT"WHEN THE CONTEXT THEREOF MEANS THE  
STATE HIGHWAY DEPARTMENT OF GEORGIA,AND SHALL BE DEEMED TO MEAN  
THE DEPARTMENT OF TRANSPORTATION.

INDEX	
DWG NO.	DESCRIPTION
01-0001	COVER SHEET
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13-0001	MAINLINE PLAN
27-0000 TO 27-0002	SIGNAL PLANS



END PROJECT  
END CONSTRUCTION  
STA 105+35.00  
N 1433547.7675  
E 2287418.1279

PREPARED BY: KIMLEY-HORN AND ASSOCIATES, INC.  
DESIGN

PLANS COMPLETED 05-17-2018	
REVISIONS	

LOCATION SKETCH

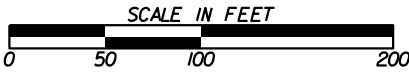
DESIGN DATA:  
TRAFFIC A.D.T.: 37,360 (2017)  
TRAFFIC A.D.T.: 41,279 (2037)  
TRAFFIC D.H.V.: 12,464  
DIRECTIONAL DIST: 50/50  
% TRUCKS: 1.2%  
24 HR.TRUCKS : 2%  
SPEED DESIGN: 45 MPH

FUNCTIONAL CLASS:  
URBAN MINOR ARTERIAL

THIS PROJECT IS 100% IN  
GWINNETT COUNTY AND IS  
100% IN CONG.DIST.NO.7.

THIS PROJECT HAS BEEN PREPARED  
USING THE HORIZONTAL GEORGIA  
COORDINATE SYSTEM OF 1984 (NAD  
1983/94 WEST ZONE,AND THE NORTH  
AMERICAN VERTICAL DATUM (NAVD)  
OF 1988.

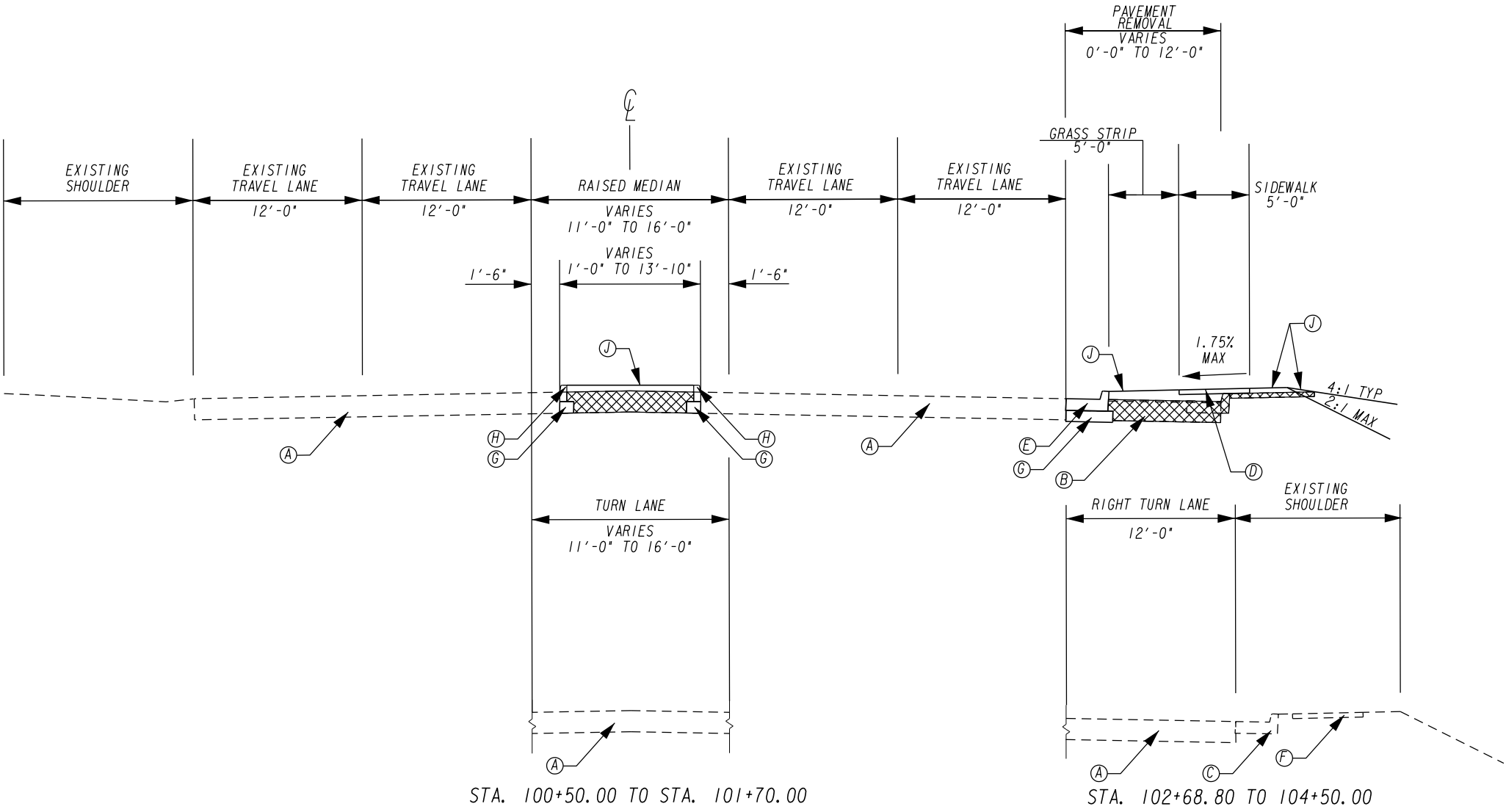
THE DATA,TOGETHER WITH ALL OTHER INFORMATION SHOWN ON THESE PLANS OR IN ANYWAY  
INDICATED THEREBY,WHETHER BY DRAWINGS OR NOTES,OR IN ANY OTHER MANNER,ARE BASED UPON  
FIELD INVESTIGATIONS AND ARE BELIEVED TO BE INDICATIVE OF ACTUAL CONDITIONS, HOWEVER,THE  
SAME ARE SHOWN AS INFORMATION ONLY,ARE NOT GUARANTEED,AND DO NOT BIND THE DEPARTMENT  
OF TRANSPORTATION IN ANY WAY.THE ATTENTION OF BIDDER IS SPECIFICALLY DIRECTED TO  
SUBSECTIONS 102.04,102.05,AND 104.03 OF THE SPECIFICATIONS.



**Kimley»Horn**

Engineering, Planning, and Environmental Consultants  
Suite 601, 817 West Peachtree Street, NW  
Atlanta, GA 30308





REQUIRED PAVEMENT

- A EXISTING PAVEMENT (TO BE RETAINED)
- B EXISTING PAVEMENT AND BASE (TO BE REMOVED)
- C EXISTING CURB AND GUTTER (TO BE RETAINED)
- D 4" CONC SIDEWALK
- E CONC. CURB & GUTTER 6IN X 24IN, TP. 2
- F EXISTING SIDEWALK (TO BE RETAINED)
- G GRADED AGGREGATE BASE, 6"
- H CONCRETE HEADER CURB, 6 IN, TP 2
- J SOD

TS-1

S.R. 378/ BEAVER RUIN ROAD

Kimley»Horn

Engineering, Planning, and Environmental Consultants  
Suite 601, 817 West Peachtree Street, NW  
Atlanta, GA 30308

REVISION DATES


TYPICAL SECTIONS

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		
CORRECTED:		DATE:		
VERIFIED:		DATE:		

05-0001

SUMMARY OF QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	QUANTITY
150-1000	TRAFFIC CONTROL	LUMP	LUMP
210-0100	GRADING COMPLETE	LUMP	LUMP
441-0104	CONC SIDEWALK, 4 IN	SY	197
441-0108	CONC SIDEWALK, 8 IN	SY	15
441-5002	CONCRETE HEADER CURB, 6 IN, TP 2	LF	555
441-6012	CONC CURB AND GUTTER, 6 IN X 24", TP 2	LF	226
636-1036	HIGHWAY SIGNS, TP 1 MATL, REFL SHEETING, TP 11	SF	74
636-1045	HIGHWAY SIGNS, TP 2 MATL, REFL SHEETING, TP 11	SF	30
636-2070	GALV STEEL POSTS, TP 7	LF	67
639-3004	STEEL STRAIN POLE, TP IV, WITH 40' MAST ARM (BLACK POWDER COATED)	EA	1
639-3004	STEEL STRAIN POLE, TP IV, WITH 50' MAST ARM (BLACK POWDER COATED)	EA	1
647-1000	TRAFFIC SIGNAL INSTALLATION NO - 1	LUMP	LUMP
653-1804	THERMOPLASTIC SOLID TRAF STIPE, 8 IN, WHITE	LF	250
653-1704	THERMOPLASTIC SOLID TRAF STIPE, 24 IN, WHITE	LF	50
653-1502	THERMOPLASTIC SOLID TRAF STIPE, 5 IN, YELLOW	LF	640
653-3501	THERMOPLASTIC SKIP TRAF STIPE, 5 IN, WHITE	LF	50
700-9300	SOD	SY	680
708-1000	PLANT TOP SOIL	CY	340

SIGN SUMMARY

LOCATION	CODE	SIZE	TYPE OF MAT'L	TYPE OF REFL SHEET	SQ. FT.
STA. 90+30	W11-2	24" x 24"	TYPE 1	TYPE 11	4.00
STA. 90+30	W16-9P	24" x 12"	TYPE 1	TYPE 11	2.00
STA. 101+80	R10-6	24" x 36"	TYPE 1	TYPE 11	6.00
STA. 101+80	R10-6	24" x 36"	TYPE 1	TYPE 11	6.00
OVERHEAD	R10-23	24" x 30"	TYPE 1	TYPE 11	5.00
OVERHEAD	R1-9A	90" x 24"	TYPE 2	TYPE 11	15.00
STA. 102+26	W11-2	24" x 24"	TYPE 1	TYPE 11	4.00
STA. 102+26	W16-7P	24" x 12"	TYPE 1	TYPE 11	2.00
STA. 101+35	R3-1	24" x 24"	TYPE 1	TYPE 11	4.00
OVERHEAD	R10-23	24" x 30"	TYPE 1	TYPE 11	5.00
OVERHEAD	R1-9A	90" x 24"	TYPE 2	TYPE 11	15.00
STA. 103+20	W11-2	24" x 24"	TYPE 1	TYPE 11	4.00
STA. 103+20	W16-7P	24" x 12"	TYPE 1	TYPE 11	2.00
STA. 103+60	R10-6	24" x 36"	TYPE 1	TYPE 11	6.00
STA. 103+60	R10-6	24" x 36"	TYPE 1	TYPE 11	6.00
STA. 105+33	W11-2	24" x 24"	TYPE 1	TYPE 11	4.00
STA. 105+33	W16-9P	24" x 12"	TYPE 1	TYPE 11	2.00
STA. 102+20	W11-2	24" x 24"	TYPE 1	TYPE 3	4.00
STA. 102+20	W16-7P	24" x 12"	TYPE 1	TYPE 3	2.00
STA. 103+30	W11-2	24" x 24"	TYPE 1	TYPE 3	4.00
STA. 103+30	W16-7P	24" x 12"	TYPE 1	TYPE 3	2.00



10/23/2018 kabeary.godwin		12:56:04 PM gpLOT-V8 gploborder-VB1-P0.tbl	0000000_27-0000.dgn		--GDOT--		P. I. No.	
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, INCLUDING SUBSEQUENT PUBLISHED RULINGS.			14. CONDUIT UNDER DRIVEWAYS AND ROADWAYS SHALL BE TYPE 3 (SDR IHDPE), RIGID METAL OR ENCASED IN CONCRETE. ALL CONDUIT RUNS GREATER THAN 50 FEET IN LENGTH SHALL BE BURIED TO A MINIMUM DEPTH OF 48 INCHES. UNLESS APPROVED BY THE ENGINEER.			20. ONLY THE MODELS OF VEHICLE SIGNAL MODULES, PEDESTRIAN SIGNAL MODULES, AND PUSHBUTTONS THAT HAVE BEEN TESTED AND PRE-APPROVED BY GWINNETT COUNTY DOT SHALL BE USED. CONTACT GWINNETT COUNTY DOT FOR A LIST OF APPROVED ITEMS OR TO SUBMIT ITEMS FOR TESTING AND APPROVAL, CONTACT GWINNETT COUNTY DOT AT (770) 822-7474.		
2. ALL MATERIALS AND WORK SHALL BE IN ACCORDANCE WITH THE GEORGIA DEPARTMENT OF TRANSPORTATION CURRENT STANDARD AND SUPPLEMENTAL SPECIFICATIONS AND STANDARD DETAILS FOR TRAFFIC SIGNAL INSTALLATION (WITH EXCEPTIONS AS DIRECTED BY THESE PLANS OR GWINNETT COUNTY D.O.T.). INSTALLATION SHALL MEET CURRENT NFPA NATIONAL ELECTRICAL CODE AND ANSI NATIONAL ELECTRICAL SAFETY CODE.			15. WHEN APPLICABLE TO THE PLANS, DETECTABLE MARKING TAPE LABELED "GWINNETT DOT CALL (770) 822-7474" SHALL BE INSTALLED DIRECTLY ABOVE ALL UNDERGROUND CONDUIT CONTAINING FIBER OPTIC INTERCONNECT CABLE. AN INSULATED TRACING WIRE, GROUNDED ON ONE END, SHALL BE INSTALLED INSIDE A CONDUIT SEPARATE FROM THE FIBER OPTIC INTERCONNECT CABLE.			21. ONE 7- CONDUCTOR, 14 AWG, STRANDED CABLE AND ONE 3-PAIR DETECTOR CABLE FOR PROPOSED AND FUTURE PEDESTRIAN SIGNALS SHALL BE INSTALLED AT EACH STRAIN POLE. A MINIMUM OF ONE 7-CONDUCTOR, 14 AWG, STRANDED SIGNAL CABLE FOR PROPOSED AND FUTURE VEHICLE SIGNALS SHALL BE INSTALLED ON ALL FOUR SIDES OF THE INSTALLATION.		
3. MATERIAL CERTIFICATION IS REQUIRED PRIOR TO BEGINNING ANY SIGNAL INSTALLATION WORK. THE CONTRACTOR SHALL FOLLOW PROCEDURES OUTLINED IN THE SPECIAL PROVISIONS.			16. SIGNAL HEADS ON MAST ARMS SHALL HAVE BACK PLATES AND BE RIGID MOUNTED.			22. LOOP DETECTOR UNIT SHALL ENERGIZE ITS INDIVIDUAL LOOP CHANNELS NONCONCURRENTLY. DETECTOR UNIT SHALL BE FAIL SAFE (PROVIDE A CONSTANT CALL TO THE CONTROLLER IF LOOP FAILURE OCCURS).		
4. CONTRACTOR SHALL SUBMIT LOAD CALCULATIONS, SHOP DRAWINGS AND FOUNDATION DIMENSIONS OF POLES AND CATALOG CUTS OF PROPOSED SIGNAL EQUIPMENT AND ELECTRICAL/LINE HARDWARE MATERIALS TO THE PROJECT ENGINEER FOR APPROVAL.			17. VEHICLE AND PEDESTRIAN SIGNAL HEADS AND HARDWARE SHALL BE ALL BLACK IN COLOR. VEHICLE SIGNAL HEADS SHALL HAVE TUNNEL VISORS AND SHALL BE MADE OF POLYCARBONATE MATERIAL VEHICLE SIGNAL HEADS SHALL BE EQUIPPED WITH LED MODULES.			23. CONTROLLER SHALL INCLUDE 5-VOLT 2 MB DATA KEY AND SHALL HAVE THE CURRENT GDOT LICENSE INTERSECTION SOFTWARE INSTALLED AND OPERATIONAL.		
5. FOR STRAIN POLE FOUNDATION SIZE AND REINFORCEMENT, SEE STRAIN POLE AND MAST ARM POLE FOUNDATION SHEET.			18. PEDESTRIAN SIGNAL HEADS ATTACHED TO PEDESTAL POLES AND STEEL STRAIN POLES SHALL BE MOUNTED WITH "CLAMSHELL" TYPE BRACKET ASSEMBLIES. ALL PEDESTRIAN SIGNAL HEADS ATTACHED TO CONCRETE STRAIN POLES SHALL BE MOUNTED WITH ONE-WAY SIDE-OF-POLE ALUMINUM BRACKETS. PEDESTRIAN SIGNAL HEADS SHALL BE EQUIPPED WITH COUNTDOWN, UNIFORM APPEARANCE, FULL HAND/MAN/NUMERAL LED MODULES.			24. HOT DIP GALVANIZED WELDLESS RINGS SHALL BE USED FOR SPAN WIRE JUNCTIONS. GUY ANCHORS SHALL BE GALVANIZED.		
6. THE CONTRACTOR SHALL LOCATE UNDERGROUND UTILITIES IN THE VICINITY OF NEW TRAFFIC SIGNAL POLES BEFORE INSTALLATION. MINOR SHIFTS (UP TO A MAXIMUM OF 5 FEET) IN LOCATION OF NEW SIGNAL POLES, AT THE DISCRETION OF THE ENGINEER, ARE ACCEPTABLE TO AVOID UNDERGROUND UTILITIES. MINIMUM CLEARANCES FROM EDGE OF PAVEMENT SHALL BE MAINTAINED. PLACEMENT OF THE SIGNAL HEADS MUST BE RETAINED AS SHOWN ON THE PLANS.			19. PUSHBUTTON STATIONS THAT ARE INSTALLED ON A PEDESTAL POLE FOR TWO PERPENDICULAR CROSSINGS SHALL BE MOUNTED ON A "DOUBLE PUSHBUTTON STATION ADAPTER. PEDESTRIAN PUSHBUTTONS SHALL BE INSTALLED WITHIN 10" OF SIDEWALK WITH SIGN ARROW INDICATING THE CROSSING DIRECTION. PEDESTRIAN PUSHBUTTONS SHALL BE VANDAL RESISTANT WITH A PIEZO SWITCH, LED INDICATION AND AUDIBLE FEEDBACK.			25. GWINNETT COUNTY D.O.T. WILL BE RESPONSIBLE FOR PROGRAMMING OF SIGNAL TIMING AND "TURN-ON" OF ALL NEW SIGNALS.		
7. 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.						25. GWINNETT COUNTY D.O.T. IS NOT ON THE ONE-CALL SYSTEM. CALL (770) 822-7474 WHEN LOCATING UTILITIES FOR CONSTRUCTION.		
8. THE CONTRACTOR SHALL MAINTAIN EXISTING TRAFFIC SIGNALS DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC SIGNAL AND/OR CONTROL SYSTEM ADJUSTMENTS, INCLUDING TEMPORARY SUPPORT POLE LOCATION(S) REQUIRED BY THE PROJECT DURING THE INTERIM PERIOD THROUGH INSTALLATION OF NEW SIGNAL EQUIPMENT. AT NO TIME SHALL THE CONTRACTOR CAUSE ANY PART OF THE SIGNAL OPERATION TO BE INOPERABLE.								
9. WHEN APPLICABLE TO THE PLANS, THE CONTRACTOR MUST INSTALL AND TEST ALL NEW SIGNAL ITEMS PRIOR TO REMOVING EXISTING SIGNALS FROM SERVICE.								
10. WHEN APPLICABLE TO THE PLANS, CONTRACTOR WILL BE REQUIRED TO PROVIDE A NEW RISER, CONDUIT, CONDUCTORS AND DISCONNECT TO PROVIDE POWER SERVICE INTO THE CONTROLLER CABINET.								
11. THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL NEW GUYS ON EXISTING POLES WHEN ATTACHING SPAN WIRE OR FIBER OPTIC INTERCONNECT CABLE TO THE POLES, WHEN REQUIRED, AS DIRECTED BY THE ENGINEER.								
12. SHIELDED CABLE SHALL BE USED FOR DETECTOR RUNS, AS SHOWN ON THE DETAIL SHEET. DETECTORS SHALL HAVE SEPARATE LEAD-INS TO THE CONTROLLER CABINET. LOOP AND PEDESTRIAN DETECTOR CABLES SHALL BE 14 AWG IMSA 50-2 3-PAIR EQUIVALENT CABLE.								
13. ENSURE DETECTION LOOPS ARE INSTALLED PROMPTLY. FAILURE TO DO SO WILL RESULT IN ASSESSMENT OF LIQUIDATED DAMAGES IN ACCORDANCE WITH SECTION 150.08 OF THE SPECIFICATIONS.								





332 CABINET INPUT FILES ASSIGNMENT																	
UPPER INPUT FILE (I)	SLOT		I	2	3	4	5	6	7	8	9	IO	II	I2	I3	I4	
	TYPE											TBA	TBA	DC	OC	OC	
	CARD													DC ISO	DC ISO	DC ISO	
	CHANNEL 1	CI PIN	56	39	63	47	58	41	65	49	60		80	67	68	81	
		FUNCTION	Ph 1	Ph 2	Ph 2	Ph 2	Ph 3	Ph 4	Ph 4	Ph 4	Ph 1		INT ADV	Ph 2 PED	Ph 6 PED	FLASH	
		FIELO TERM	TB2 I,2	TB2 5,6	TB2 9,10	TB4 I,2	TB4 5,6	TB4 9,10	TB6 I,2	TB6 5,6	TB6 9,10			TB8 4,6	TB8 7,9	N/C	
		DET. NUMBER	1	3	5	7	9	11	13	15	17						
		LN. ASSGN.		L2A	L2C									Phase 2	Phase 6		
	CHANNEL 2	CI PIN	56	43	76	47	58	45	78	49	62		53	69	70	82	
		FUNCTION	Ph 1	Ph 2	Ph 2	Ph 2	Ph 3	Ph 4	Ph 4	Ph 4	Ph 3		MCE	Ph 4 PED	Ph 8 PED	STOP TIME	
		FIELO TERM	TB2 3,4	TB2 7,8	TB2 11,12	TB4 3,4	TB4 7,8	TB4 11,12	TB6 3,4	TB6 7,8	TB6 11,12		NC	TB8 5,6	TB8 8,9	N/C	
		DET. NUMBER	1	4	6	7	9	12	14	15	18						
		LN. ASSGN.		L2B										Phase 4	Phase 8		
	LOWER INPUT FILE (J)	SLOT		I	2	3	4	5	6	7	8	9	IO	II	I2	I3	I4
		TYPE											TBA	TBA	DC	OC	OC
		CARD													TBA	TBA	DC ISO
		CHANNEL 1	CI PIN	55	40	64	48	57	42	66	50	59		54	71	72	51
FUNCTION			Ph 5	Ph 6	Ph 6	Ph 6	Ph 7	Ph 8	Ph 8	Ph 8	Ph 5			EVA	EVb	R/R	
FIELO TERM			TB3 I,2	TB3 5,6	TB3 9,10	TB5 I,2	TB5 5,6	TB5 9,10	TB7 I,2	TB7 5,6	TB7 9,10			TB9 4,6	TB9 7,9	TB9 10,12	
DET. NUMBER			19	21	23	25	29	31	33	35	37						
LN. ASSGN.				L6A	L6C			L8A									
CHANNEL 2		CI PIN	55	44	77	48	57	46	79	50	61		75	73	74	52	
		FUNCTION	Ph 5	Ph 6	Ph 6	Ph 6	Ph 7	Ph 8	Ph 8	Ph 8	Ph 7			EVC	EVD		
		FIELO TERM	TB3 3,4	TB3 7,8	TB3 11,12	TB5 3,4	TB5 7,8	TB5 11,12	TB7 3,4	TB7 7,8	TB7 11,12			TB9 5,6	TB9 8,9	TB9 11,12	
		DET. NUMBER	19	22	24	25	29	32	34	35	38						
	LN. ASSGN.		L6B				L8B										

•NOTES:

LIST OF MATERIALS FOR TRAFFIC SIGNAL INSTALLATION - NO. 1  
LOCATION: S.R. 378/BEAVER RUIN ROAD AT LIGHT CIRCLE  
GATEWAY 85 GWINNETT COMMUNITY IMPROVEMENT DISTRICT  
QUANTITIES ARE FOR INFORMATION ONLY  
CONTRACTOR SHOULD FIELD VERIFY PRIOR TO ORDERING MATERIALS

## MATERIALS

LIST OF MATERIALS	UNIT	QUANTITY
<b>CONTROLLER CABINET ASSEMBLIES</b>		
A. CONTROLLER UNIT, MODE 2070L WITH SEPAC 3.34B FIRMWARE	EA	1
D. CABINET ASSEMBLY, MODEL 332A	EA	1
E. SWITCH PACK	EA	6
F. DC ISOLATOR	EA	3
J. 2010 CONFLICT MONITOR, EXTENDED FEATURES, ETHERNET	EA	1
332A PREFABRICATED CONTROLLER CABINET BASE	EA	1
LOOP/PED LEAD-IN WIRE (SHIELDED, TWISTED/1000 FT)		
A. 3 PAIR, 14 AWG	REEL	1
SIGNAL CABLE (14 AWG)		
B. 7 CONDUCTOR, PER 1000 FT.	REEL	1
ONE-WAY, 3-SECTION, 12" EXPANDED VIEW LED SIGNAL HEAD, PLASTIC		
2. PEDESTRAIN HYBRID BEACON CONFIGURATION	EA	4
ONE-WAY, 1-SECTION, 16"x18" LED COUNTDOWN PEDESTRIAN SIGNAL HEAD, FULL HAND/MAN OVERLAP-BLACK		
1. 9" HIGH NUMBERS & 12" HIGH SYMBOLS	EA	4
PEDESTRIAN PUSH BUTTONS STATION, W/ BUTTON, SIGN, AND ADAPTER FOR SIGN-BLACK 9"x15", R10-3e, (LEFT OR (RIGHT, COUNTDOWN	EA	4
HARDWARE FOR MAST ARM MOUNTING (BLACK)	EA	4
HARDWARE FOR PEDESTAL POLE, CLAMSHELL MOUNTING, ONE-WAY BRACKET ASSEMBLY	EA	2
HARDWARE FOR STRAIN POLE, CLAMSHELL MOUNTING, ONE-WAY BRACKET ASSEMBLY	EA	2
PEDESTAL POLE, 10 FT	EA	3
PULL BOX, PB-2	EA	3
PULL BOX, PB-3	EA	1
PULL BOX, PB-4S	EA	1
CONDUIT, NONMETL, TP 3, 2 IN	LF	700
DIRECTIONAL BORE - 5"	LF	85
OSP F/O CABLE, LOOSE TUBE, DROP, SM, 12 FIBER	EA	220
F/O SPLICING FUSION	EA	14
F/O CLOSURE, WALL MOUNT, 12 FIBER	EA	1
FIELD SWITCH, TYPE A	EA	1
GBIC, TYPE LX	EA	1
F/O CLOSURE, UNDERGROUND, 12 FIBER	EA	1
POWER SERVICE CONNECTION	LUMP	LUMP
ISC MATL TO COMPLETE INSTALLATION	LUMP	LUMP

REVISION DATES			SIGNAL PLANS				
			CHECKED:		DATE:		DRAWING No.  27-0002
			BACKCHECKED:		DATE:		
			CORRECTED:		DATE:		
			VERIFIED:		DATE:		