



Gwinnett

DEPARTMENT OF FINANCIAL SERVICES
PURCHASING DIVISION

75 Langley Drive | Lawrenceville, GA 30046-6935
(O) 770.822.8720 | (F) 770.822.8735
www.gwinnettcounty.com

April 29, 2024

**Addendum No. 2
RP016-24**

Purchase and Implementation of an Adaptive Signal Control Technology (ASCT) System

The following addition/changes modify Proposal No. RP016-24 "Purchase and Implementation of an Adaptive Signal Control Technology (ASCT) System" Contract Documents, dated March 2024, as first advertised on March 13, 2024.

THIS PROPOSAL OPENING DEADLINE HAS BEEN EXTENDED TO MAY 20, 2024, AT 2:50PM

I. Modifications:

- M1. Page 9, second to last row of the table, please replace with the following:
The consultant shall provide routine updates to the software and software environment necessary to preserve the fulfillment of requirements for a period of five (5) years. Preservation of requirements fulfillment especially includes all IT management requirements as previously identified.

II. Questions:

- Q1. The RFP mentions GDOT Notice of Professional Qualification. Are there any specific GDOT prequalification area class categories required of the proposal team?**
A1. 3.06 – Traffic Operations Studies, 3.07 Traffic Operation Design, and 3.09 Traffic Control System Analysis, Design, and Implementation.
- Q2. We did not see a page limit for resumes or proposals. Is there a desired maximum page limit for resumes and/or the overall proposal that shall not be exceeded?**
A2. There is a 2-page limit per resume.
- Q3. Can the County confirm that traffic counts, Synchro analysis, and/or new timing plans are not to be included in the lump sum cost of the ASCT system?**
A3. The ASCT System should be able to collect counts, provide analysis, and create new timing plans.
- Q4. The overall performance of the ASCT solution will be dependent upon the amount and location of detection present at each intersection. If available, can the county provide as-built drawings showing the detection present at each intersection?**
A4. Yes. It should be noted that the FYA upgrades shown in the traffic signal plans for TS_187 and TS_386 will be implemented in advance of the ASCT Project.
- Q5. Does the County have a preference for an on-premises solution or a cloud-hosted solution?**
A5. There is not a preference for either on-premises solution or a cloud-hosted solution.
- Q6. Can the County provide additional information on the number, duration, and location of the training that will be required for the project?**
A6. Gwinnett County will need training for up to 36 engineers and technicians. Class duration

should be 2 to 3 days at DOT Central (620 Winder Hwy, Lawrenceville, GA 30045).
Q7. Should the lump sum cost for Item #1 include the year of ASCT solution service and support?
A7. Yes.

Q8. Can we include an annual escalation factor for the hourly rates included in our proposal?
A8. No, this is a lump sum project.

Q9. Should proposers include at least one team member in the org. chart for each billing category included in Section II of the Fee Schedule?
A9. Yes.

Q10. Would the County consider adding an additional billing category for Engineering Analyst (EIT but no PE) and Junior Software Engineer so that we can better stratify our rates?
A10. Section II – Hourly Rates will ONLY be used for informational purposes.

Q11. Please confirm that the number of proposal “copies” is 5 vs. the 3 copies listed on page 2 Section F.
A11. Please provide five (5) proposal copies.

Q12. On page 3 of the RFP a “Non-Conflict of Interest Certification” form is mentioned to be included in the proposal. However, the form is not included in the RFP document. Is it required, and if so, please provide a copy of the form.

A12. Please remove any reference to a “Non-Conflict of Interest Certification form” throughout the RFP package, this is not required.

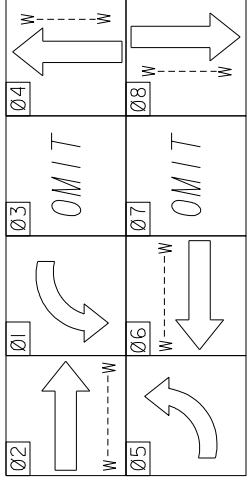
III. Attachments:

A1. Signal Plans

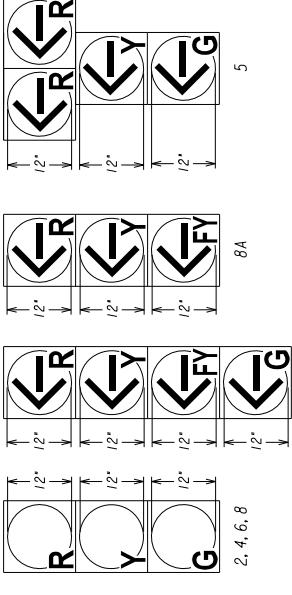
Acknowledge receipt of this addendum on the firm information page of the request for proposal.
Sincerely,

Brittany Bryant, CPPB
Purchasing Associate III

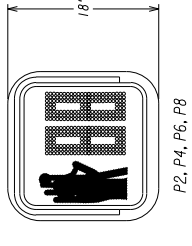
PHASING DIAGRAM



LED SIGNAL HEADS WITH RETRO-REFLECTIVE BACKPLATES

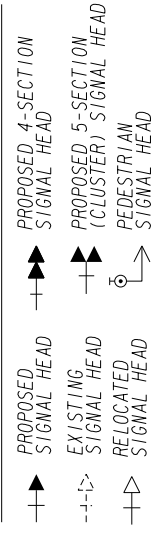


LED SIGNAL HEADS

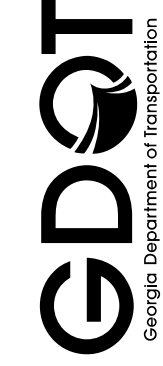
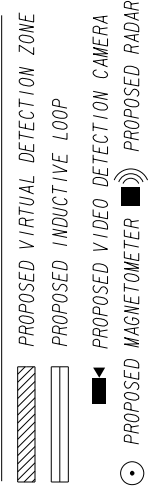


NOTES:
1. PUSHBUTTONS MUST MEET GDOT STANDARDS.

SIGNAL LEGEND



DETECTION LEGEND



REVISION DATES

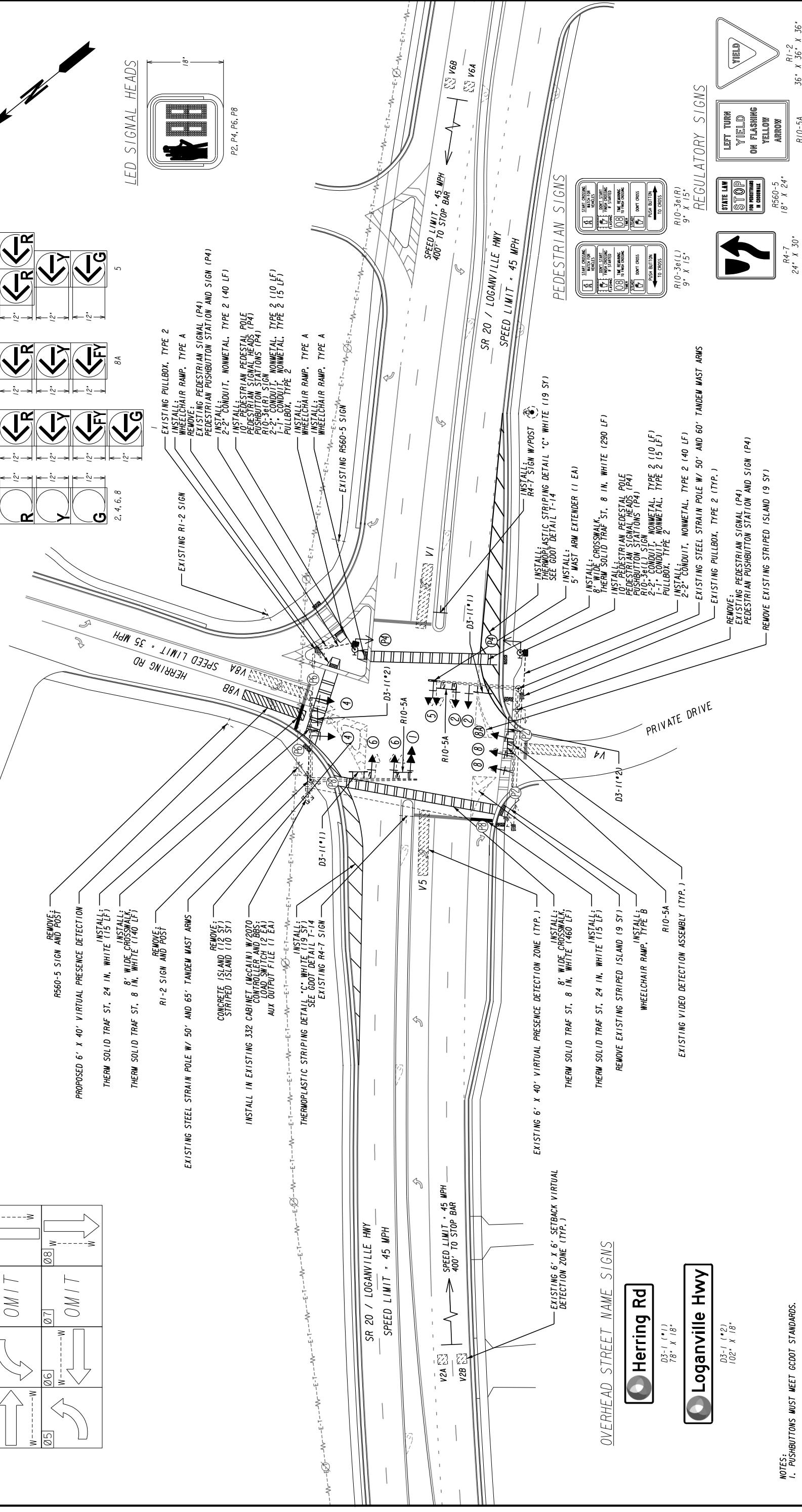
NO.	DATE	DESCRIPTION

SIGNAL PLANS

SR 20 / LOGANVILLE HWY
AT HERRING RD TS-652

CHECKED:	DATE:	BACKCHECKED:	DATE:	CORRECTED:	DATE:	VERIFIED:	DATE:

DRAWING NO. 27-0013



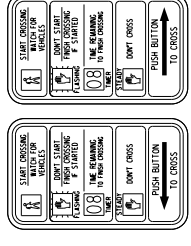
OVERHEAD STREET NAME SIGNS



REGULATORY SIGNS



PEDESTRIAN SIGNS



CABINET INPUT ASSIGNMENT

SLOT	1	2	3	4	5	6	7	8	9	10	11	12	13	14
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UPPER INPUT FILE

TYPE	DET	DET	DET	DET	DET	DET	DET	DET	TBA	TBA	DC	DC	DC	DC
CARD	VIDEO	VIDEO	VIDEO	VIDEO	VIDEO	VIDEO	VIDEO	VIDEO	DC ISD	DC ISD	DC ISD	DC ISD	DC ISD	DC ISD
C1 PIN	56	39	63	47	56	41	65	49	60	67	68	68	81	81
FUNCTION	V1	V2A		V4					PH2 PED	PH6 PED	FLASH			
FIELD TERM	TB2 L2	TB2 5.6	TB2 9.10	TB4 1.2	TB4 5.6	TB4 9.10	TB6 1.2	TB6 5.6	TB6 9.10	TB8 4.6	TB8 7.9	N/C		

LOWER INPUT FILE

TYPE	DET	DET	DET	DET	DET	DET	DET	DET	TBA	TBA	DC	DC	DC	DC
C1 PIN	56	43	76	47	58	45	78	49	62	53	69	70	82	82
FUNCTION	V2B										PH4 PED	PH8 PED	STOP TIME	
FIELD TERM	TB2 3.4	TB2 7.8	TB2 11.2	TB4 3.4	TB4 7.8	TB4 11.2	TB6 3.4	TB6 7.8	TB6 11.2	TB8 5.6	TB8 8.9	N/C		

UPPER INPUT FILE

TYPE	DET	DET	DET	DET	DET	DET	DET	DET	TBA	TBA	DC	DC	DC	DC
CARD	VIDEO	VIDEO	VIDEO	VIDEO	VIDEO	VIDEO	VIDEO	VIDEO	DC ISD	DC ISD	DC ISD	DC ISD	DC ISD	DC ISD
C1 PIN	55	48	64	48	57	42	66	50	59	54	71	72	51	51
FUNCTION	V5	V6A		V6B										
FIELD TERM	TB3 1.2	TB3 5.6	TB3 9.10	TB5 1.2	TB5 5.6	TB5 9.10	TB7 1.2	TB7 5.6	TB7 9.10	TB9 4.6	TB9 7.9	TB9 10.2		

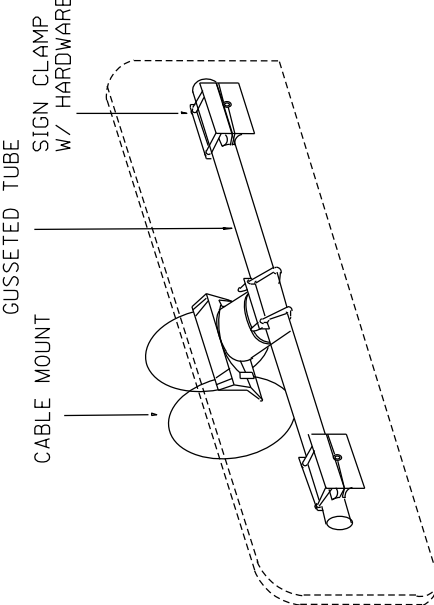
LOWER INPUT FILE

TYPE	DET	DET	DET	DET	DET	DET	DET	DET	TBA	TBA	DC	DC	DC	DC
C1 PIN	55	44	77	48	57	46	79	50	61	75	73	74	52	52
FUNCTION	V6B													
FIELD TERM	TB3 3.4	TB3 7.8	TB3 11.2	TB5 3.4	TB5 7.8	TB5 11.2	TB7 3.4	TB7 7.8	TB7 11.2	TB9 5.6	TB9 8.9	TB9 11.2		

SIGN HANGER FOR MAST ARMS

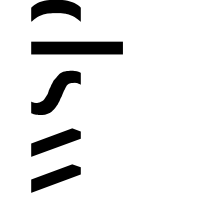
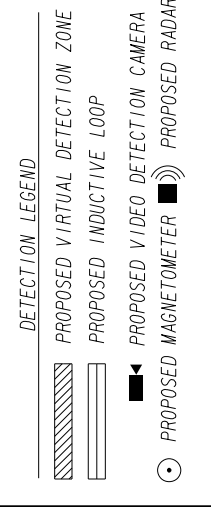
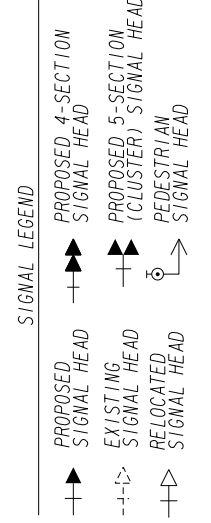
GENERAL NOTES FOR OVERHEAD STREET NAME SIGNS

- EACH SIGN SHALL CONTAIN A MINIMUM OF (2) HANGERS OR BRACKETS.
- THE CONTRACTOR SHALL CONTACT GWINNETT COUNTY DEPARTMENT OF TRANSPORTATION @ 678-639-8800 FOR AN ELECTRONIC FILE OF LOGO.
- SIGN PANELS SHALL BE FABRICATED OF ONE CONTINUOUS UNSPLICED PIECE OF ALUMINUM.
- ALL SIGNS SHALL BE WHITE TYPE 9, REFLECTORIZED LEGEND AND BORDER ON STANDARD INTERSTATE GREEN TYPE 9 REFLECTORIZED BACKGROUND.
- FOR MOUNTING ON SIGNAL SPAN WIRE:
USE (1) ONE PELCO SP-5262-L (L=LENGTH OF SIGN MINUS 6 INCHES) OR EQUIVALENT. SIGN HANGER PER SIGN OR PER PAIR OF BACK-TO-BACK MOUNTED SIGNS. HANGER SHALL CONSIST OF A CONTINUOUS ANGLE BRACKET, RUNNING THE LENGTH OF THE SIGN, WITH TWO (2) ADJUSTABLE SPAN WIRE ATTACHMENTS. THE BRACKET SHALL BE MOUNTED TO THE SPAN WIRE WITH TWO (2) SPRING WASHERS AND TWO (2) LOCKWASHERS. THE SIGN SPAN WIRE HANGER AND SIGN SHALL BE CHECKED WITH A SPRING LEVEL AND ADJUSTED SO THAT SIGN IS LEVEL. ATTACH BACK-TO-BACK SIGNS TO OPPOSITE SIDES OF SIGN BRACKET SO THAT NO AREA OF SIGN SURFACE IS COVERED. RIVET SIGN BLADES TOGETHER ALONG BOTTOM EDGE.
- ENSURE SIGNS ARE MOUNTED TO AVOID BLOCKING VIEW OF SIGNAL HEADS FROM APPROACHING TRAFFIC.



SUMMARY OF QUANTITIES

Pay Item	Description	Unit	Quantity
647-1000	TRAFFIC SIGNAL INSTALLATION NO 7	LS	1
610-2700	REM CONCRETE	SY	12
441-7011	WHEELCHAIR RAMP, TYPE A	EA	3
441-7022	WHEELCHAIR RAMP, TYPE B	EA	1
636-1041	HIGHWAY SIGNS, TP 2 MATL, REFL SHEETING, TP 9	SF	43
653-1704	THERM SOLID TRAF ST, 24 IN WHITE	LF	30
653-1804	THERM SOLID TRAF ST, 8, WHITE	LF	890
653-6004	THERMOPLASTIC TRAF STRIPING, WHITE	SY	38
656-4001	REMOVE EXIST TRAF MARKINGS, THERMOPLASTIC	SY	28



REVISION DATES

NO.	DATE	DESCRIPTION

SIGNAL PLANS

SR 20 / LOGANVILLE HWY
AT HERRING RD TS-652

CHECKED:	DATE:

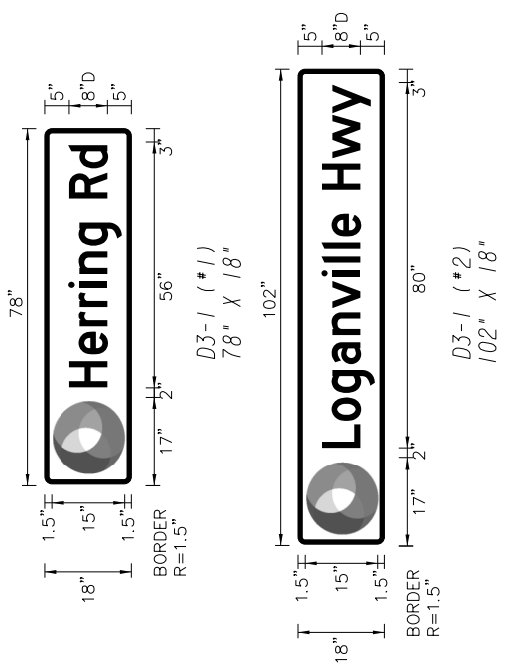
DRAWING NO. 27-0014

LIST OF MATERIALS (INSTALLATION *7)

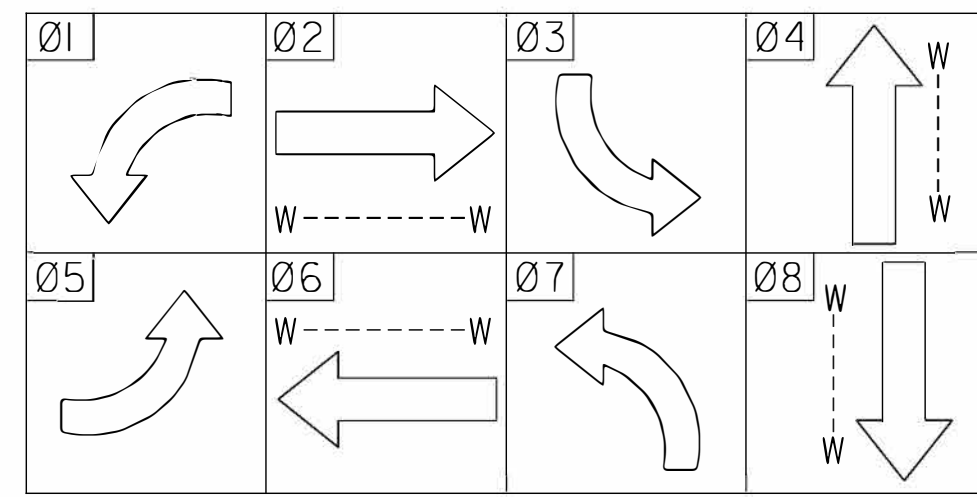
DESCRIPTION	UNIT	QUANTITY
CONTROLLER CABINET ASSEMBLIES	EA	2
F. SWITCH PACK (Load Switch)	EA	1
M. AUXILIARY OUTPUT FILE	EA	1
N. 2018 KCLIP CONFLICT MONITOR, EXTENDED FEATURES	EA	1
PED LEAD-IN WIRE (SHIELDED, TWISTED/1000 FT): 3 PAIR, 18 AWG	REEL	1
SIGNAL CABLE (14 AWG): 7 CONDUCTOR, PER 1000 FT.	REEL	3
3-SECTION, 12" SIGNAL HEAD LED - , BLACK HOUSING w/ BLACK FRONT, PLASTIC	EA	9
4-SECTION, 12" SIGNAL HEAD LED - , BLACK HOUSING w/ BLACK FRONT, PLASTIC	EA	1
4-SECTION, T-SHAPED, 12" SIGNAL HEAD LED - , BLACK HOUSING w/ BLACK FRONT, PLASTIC	EA	1
J-SECTION, 18" LED COUNTDOWN PEDESTRIAN SIGNAL HEAD, FULL HAND/MAN OVERLAP	EA	2
9" HIGH, Numbers & 12" Symbols	EA	2
PEDESTRIAN PUSHBUTTONS STATIONS, w/BUTTONS and SIGNS:	EA	2
9" x 15", R10-3e, (L)left or (R)ight, Countdown	EA	2
PEDESTRIAN PUSHBUTTON STATION ADAPTERS (ONLY)	EA	2
9" x 15", Single Push Button Station Adapter for 4" Dia Pedestrian Pole, Adjustable	EA	9
BACK PLATE FOR ONE-WAY, 3-SECTION, 12" SIGNAL HEAD, ABS PLASTIC, BLACK w/ 2" RETROREFLECTIVE STRIP	EA	1
BACK PLATE FOR ONE-WAY, 4-SECTION, 12" SIGNAL HEAD, ABS PLASTIC, BLACK w/ 2" RETROREFLECTIVE STRIP	EA	1
BACK PLATE FOR ONE-WAY, 4-SECTION, T-SHAPED, 12" SIGNAL HEAD, ABS PLASTIC, BLACK w/2" RETROREFLECTIVE STRIP	EA	1
HARDWARE FOR MAST ARM MOUNTING	EA	11
5' MAST ARM EXTENDER	EA	1
HARDWARE FOR PEDESTAL POLE, SIDE OF POLE MOUNTING, ONE-WAY BRACKET ASSEMBLY, CLAMSHELL	EA	2
10' PEDESTAL POLE & SQUARE BASE	EA	2
PULL BOX, PB-2	EA	2
CONDUIT, 1"	LF	10
CONDUIT, 2" PVC	LF	100
R4-7 W/ POST	EA	1
R10-5A, LEFT TURN YIELD ON FLASHING YELLOW SIGN	EA	2
MISCELLANEOUS MATERIALS NEEDED TO COMPLETE INSTALLATION	LUMP	1

NOTE: QUANTITIES ARE FOR INFORMATION ONLY. THE CONTRACTOR SHOULD FIELD VERIFY PRIOR TO ORDERING MATERIALS.

OVERHEAD STREET NAME SIGNS

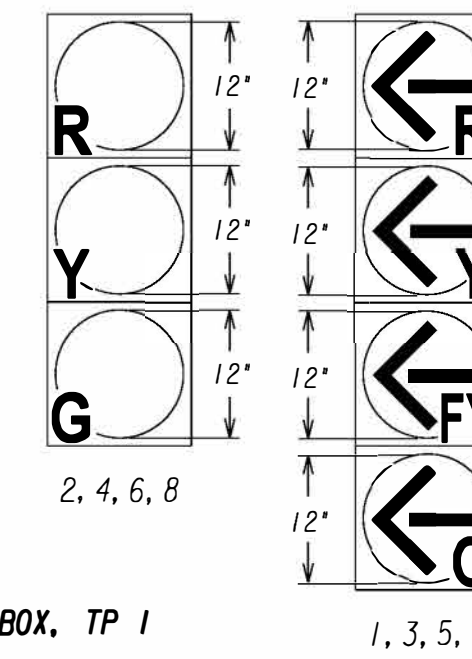


PHASING DIAGRAM

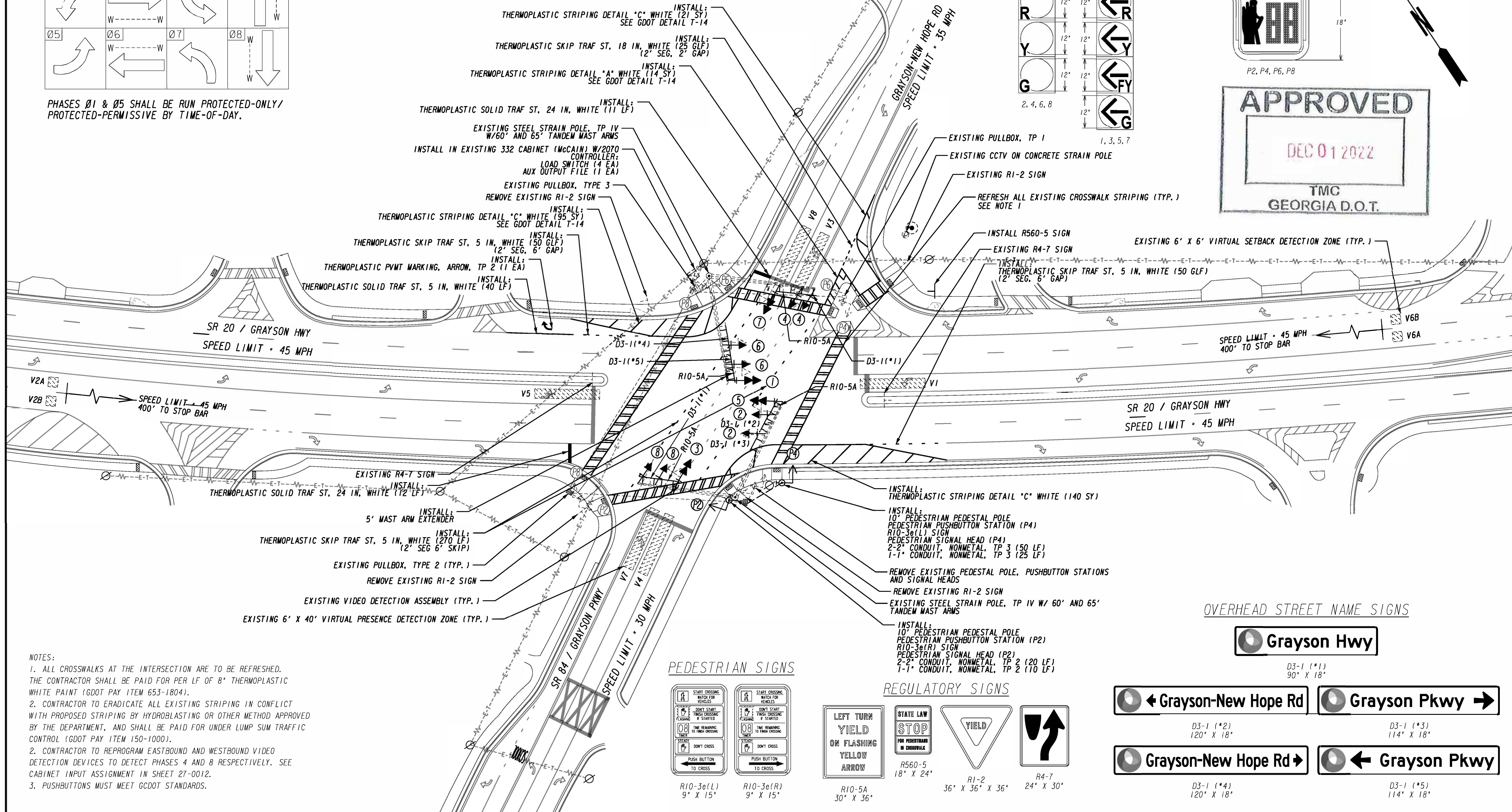
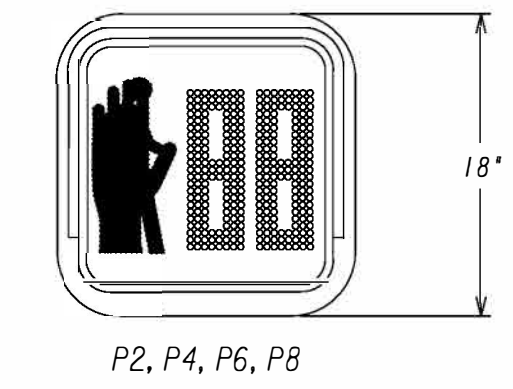


PHASES Ø1 & Ø5 SHALL BE RUN PROTECTED-ONLY / PROTECTED-PERMISSIVE BY TIME-OF-DAY.

LED SIGNAL HEADS WITH RETRO-REFLECTIVE BACKPLATES



LED SIGNAL HEADS



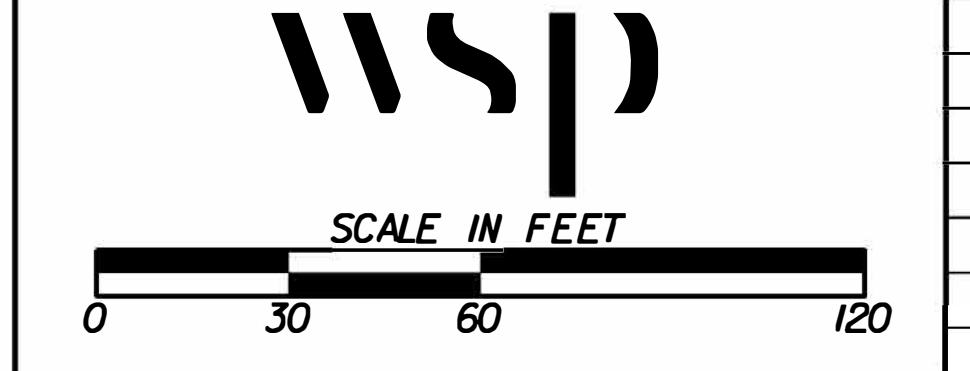
- NOTES:**
1. ALL CROSSWALKS AT THE INTERSECTION ARE TO BE REFRESHED. THE CONTRACTOR SHALL BE PAID FOR PER LF OF 8" THERMOPLASTIC WHITE PAINT (GDOT PAY ITEM 653-1804).
 2. CONTRACTOR TO ERADICATE ALL EXISTING STRIPING IN CONFLICT WITH PROPOSED STRIPING BY HYDROBLASTING OR OTHER METHOD APPROVED BY THE DEPARTMENT, AND SHALL BE PAID FOR UNDER LUMP SUM TRAFFIC CONTROL (GDOT PAY ITEM 150-1000).
 2. CONTRACTOR TO REPROGRAM EASTBOUND AND WESTBOUND VIDEO DETECTION DEVICES TO DETECT PHASES 4 AND 8 RESPECTIVELY. SEE CABINET INPUT ASSIGNMENT IN SHEET 27-0012.
 3. PUSHBUTTONS MUST MEET GDOT STANDARDS.

SIGNAL LEGEND

➔ PROPOSED SIGNAL HEAD	➔➔➔ PROPOSED 4-SECTION SIGNAL HEAD
➔➔➔ EXISTING SIGNAL HEAD	➔➔➔ PROPOSED 5-SECTION (CLUSTER) SIGNAL HEAD
➔➔➔ RELOCATED SIGNAL HEAD	➔➔➔ PEDESTRIAN SIGNAL HEAD

DETECTION LEGEND

▨ PROPOSED VIRTUAL DETECTION ZONE	▣ PROPOSED INDUCTIVE LOOP
■ PROPOSED VIDEO DETECTION CAMERA	○ PROPOSED MAGNETOMETER
■ PROPOSED RADAR	



REVISION DATES

SIGNAL PLANS
SR 20 / GRAYSON HWY
AT SR 84 / GRAYSON-NEW HOPE RD TS-187

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	27-0011
CORRECTED:	DATE:	
VERIFIED:	DATE:	

CABINET INPUT ASSIGNMENT

SLOT	1	2	3	4	5	6	7	8	9	10	11	12	13	14
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UPPER INPUT FILE

TYPE	DET	DET	DET	DET	DET	DET	DET	DET	DET	TBA	TBA	DC	DC	DC	DC
CARD	56	39	63	47	58	41	65	49	60			DC 150	DC 150	DC 150	DC 150
CI PIN	V1	V2A	V1	V3	V4					80		67	68	81	
FIELD TERM	T82 5.6	T82 9.10	T84 1.2	T84 5.6	T84 9.10	T86 1.2	T86 5.6	T86 9.10				02 PED	06 PED	FLASH	N/C

CI PIN	56	43	76	47	58	45	70	49	62	53	69	70	82
FUNCTION	V2B			T84 3.4	T84 7.8	T84 11.2	T86 3.4	T86 7.8	T86 11.2		04 PED	09 PED	STOP TIME
FIELD TERM	T82 3.4	T82 7.8	T82 11.2	T84 3.4	T84 7.8	T84 11.2	T86 3.4	T86 7.8	T86 11.2		T88 5.6	T88 8.9	N/C

LOWER INPUT FILE

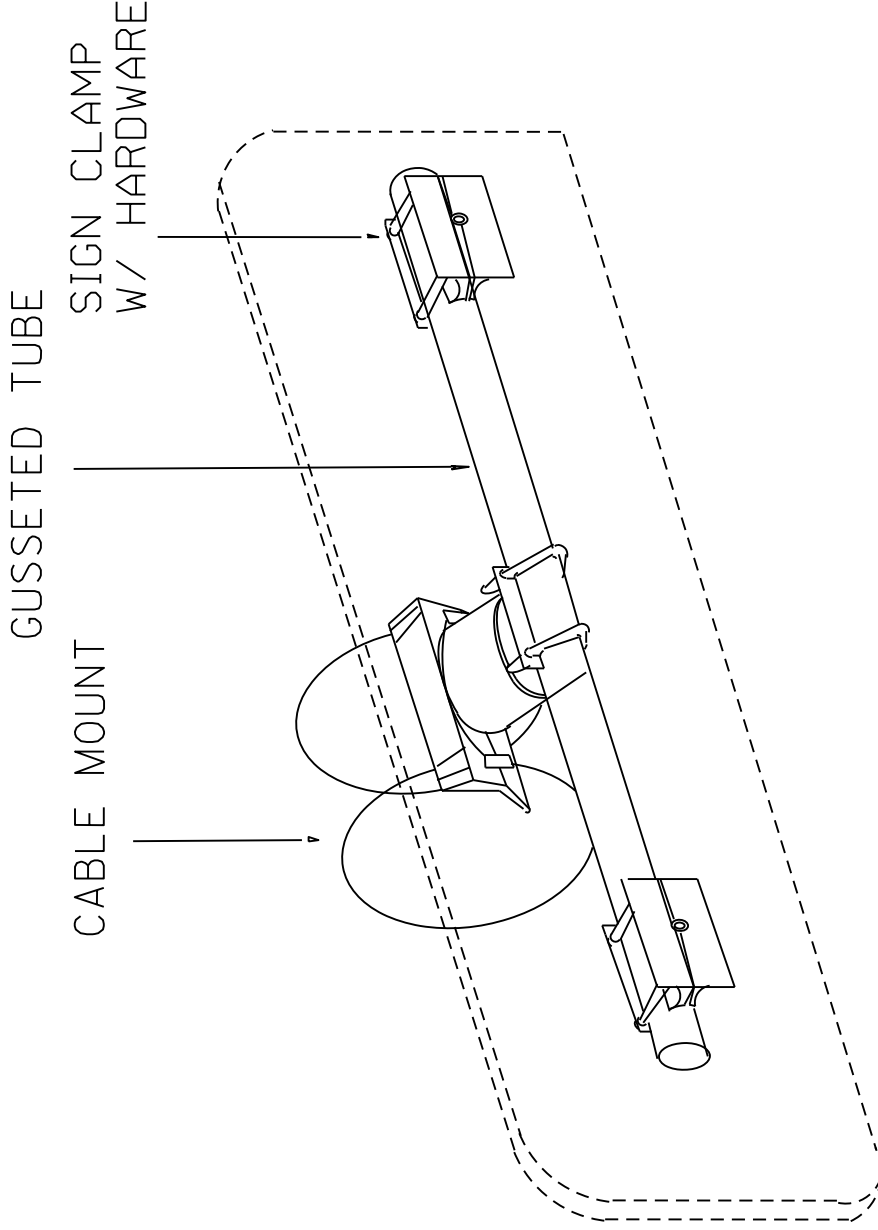
TYPE	DET	DET	DET	DET	DET	DET	DET	DET	DET	TBA	TBA	DC	DC	DC
CARD	55	40	64	48	57	42	66	50	59			71	72	51
CI PIN	V5	V6A		V7	V8									
FIELD TERM	T83 1.2	T83 5.6	T83 9.10	T85 1.2	T85 5.6	T85 9.10	T87 1.2	T87 5.6	T87 9.10			T89 4.6	T89 7.9	T89 10.2

CI PIN	55	44	77	48	57	46	79	50	61	75	73	74	52	
FUNCTION	V6B			T85 3.4	T85 7.8	T85 11.2	T87 3.4	T87 7.8	T87 11.2			T89 5.6	T89 8.9	T89 11.2
FIELD TERM	T83 3.4	T83 7.8	T83 11.2	T85 3.4	T85 7.8	T85 11.2	T87 3.4	T87 7.8	T87 11.2			T89 5.6	T89 8.9	T89 11.2

SIGN HANGER FOR MAST ARMS

GENERAL NOTES FOR OVERHEAD STREET NAME SIGNS

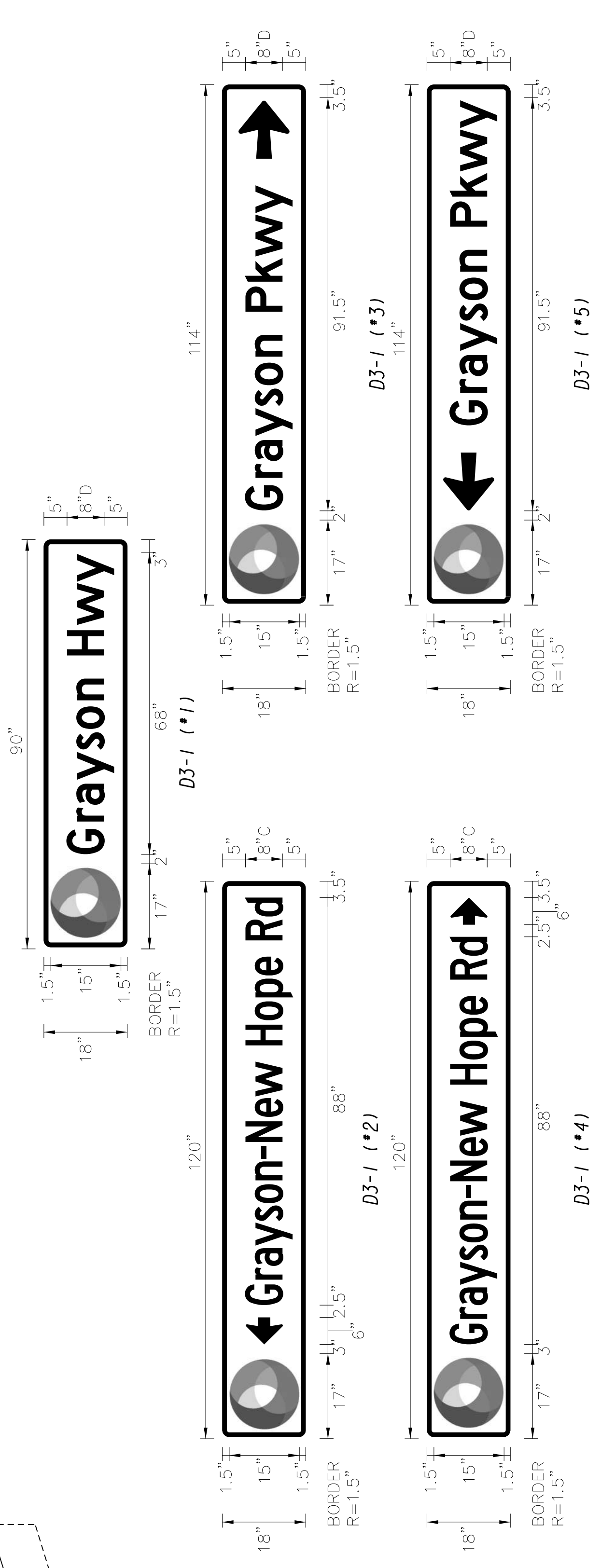
- EACH SIGN SHALL CONTAIN A MINIMUM OF 121 HANGERS OR BRACKETS.
- THE CONTRACTOR SHALL CONTACT GWINNETT COUNTY DEPARTMENT OF TRANSPORTATION @ 678-639-8800 FOR AN ELECTRONIC FILE OF LOGO.
- SIGN PANELS SHALL BE FABRICATED OF ONE CONTINUOUS UNSPLICED PIECE OF ALUMINUM.
- ALL SIGNS SHALL BE WHITE TYPE 9 REFLECTORIZED LEGEND AND BORDER ON STANDARD INTERSTATE GREEN TYPE 9 REFLECTORIZED BACKGROUND.
- FOR MOUNTING ON SIGNAL SPAN WIRE:
USE 10 ONE PELCO SP-5262-L (L=LENGTH OF SIGN MINUS 6 INCHES) OR EQUIVALENT. SIGN HANGER PER SIGN OR PER PAIR OF BACK-TO-BACK MOUNTED SIGNS. HANGER SHALL CONSIST OF A CONTINUOUS SPOKE PER PAIR OF BACK-TO-BACK MOUNTED SIGNS. THE LENGTH OF THE SIGN WITH 2 INCHES FROM THE HANGER SHALL BE CONSTRUCTED WITH ALUMINUM SIGN WITH 2 INCHES FROM THE HANGER AFTER ATTACHING TO SPAN WIRE. HANGER AND SIGN SHALL BE CHECKED WITH A SPIRIT LEVEL AND ADJUSTED SO THAT SIGN IS LEVEL. ATTACH BACK-TO-BACK SIGNS TO OPPOSITE SIDES OF SIGN BRACKET SO THAT NO AREA OF SIGN SURFACE IS COVERED. RIVET SIGN BLADES TOGETHER ALONG BOTTOM EDGE.
- ENSURE SIGNS ARE MOUNTED TO AVOID BLOCKING VIEW OF SIGNAL HEADS FROM APPROACHING TRAFFIC.



LIST OF MATERIALS (INSTALLATION *6)

DESCRIPTION	UNIT	QUANTITY
CONTROLLER CABINET ASSEMBLIES		
F. SWITCH PACK (Load Switch)	EA	4
M. AUXILIARY OUTPUT FILE	EA	1
N. 2018 KCLIP CONFLICT MONITOR, EXTENDED FEATURES	EA	1
PED LEAD-IN WIRE (SHIELDED, TWISTED/1000 FT); 3 PAIR, 18 AWG	REEL	1
SIGNAL CABLE (14 AWG); 7 CONDUCTOR, PER 1000 FT.	REEL	3
3-SECTION, 12" SIGNAL HEAD LED - , BLACK HOUSING w/ BLACK FRONT, PLASTIC	EA	8
4-SECTION, 12" SIGNAL HEAD LED - , BLACK HOUSING w/ BLACK FRONT, PLASTIC	EA	4
1-SECTION, 18" LED COUNTDOWN PEDESTRIAN SIGNAL HEAD, FULL HAND/MAN OVERLAP (9" HIGH NUMBER & 12" SYMBOLS)	EA	2
PEDESTRIAN PUSHBUTTON STATIONS, W/BUTTONS & SIGNS		
9" X 15", R10-3e, (Left or Right, Countdown)	EA	2
PEDESTRIAN PUSHBUTTON STATION ADAPTERS (ONLY)		
9" X 15", Single Push Button Station Adapter for 4" Dia Pedestrian Pole, Adjustable	EA	2
BACK PLATE FOR ONE-WAY, 3-SECTION, 12" SIGNAL HEAD, ABS PLASTIC, BLACK w/ 2" RETROREFLECTIVE STRIP	EA	8
BACK PLATE FOR ONE-WAY, 4-SECTION, 12" SIGNAL HEAD, ABS PLASTIC, BLACK w/ 2" RETROREFLECTIVE STRIP	EA	4
HARDWARE FOR MAST ARM MOUNTING	EA	12
5' MAST ARM EXTENDERS	EA	1
HARDWARE FOR PEDESTAL POLE, SIDE OF POLE MOUNTING, ONE-WAY BRACKET ASSEMBLY, CLAMSHELL	EA	2
10' PEDESTAL POLE & SQUARE BASE	EA	2
CONDUIT, 1"	EA	35
CONDUIT, 2", TP 2 (PVC)	LF	20
CONDUIT, 2", TP 3, (HDPE)	LF	50
R560-5 W/ POST	EA	1
R10-5A, LEFT TURN YIELD ON FLASHING YELLOW SIGN	EA	4
MISCELLANEOUS MATERIALS NEEDED TO COMPLETE INSTALLATION	EA	4
NOTE: QUANTITIES ARE FOR INFORMATION ONLY. THE CONTRACTOR SHOULD FIELD VERIFY PRIOR TO ORDERING MATERIALS.		

OVERHEAD STREET NAME SIGN DETAILS



SUMMARY OF QUANTITIES

Pay Item	Description	Unit	Quantity
150-1000	TRAFFIC CONTROL	LS	1
647-1000	TRAFFIC SIGNAL INSTALLATION NO 6	LS	1
636-1041	HIGHWAY SIGNS, TP 2 MATL, REEL SHEETING, TP 9	SF	80
653-0120	THERM PVMT MARK, ARROW, TP 2	EA	1
653-1501	THERM SOLID TRAF ST, 5 IN WHITE	LF	40
653-1704	THERM SOLID TRAF ST, 24 IN WHITE	LF	23
653-1804	THERM SOLID TRAF ST, 8 IN, WHITE	LF	1350
653-3501	THERM SKIP TRAF ST, 5 IN, WHITE	GLF	370
653-4830	THERM SKIP TRAF ST, 18 IN, WHITE	GLF	25
653-6004	THERMOPLASTIC TRAF STRIPING, WHITE	SY	270

SIGNAL PLANS

SR 20 / GRAYSON HWY AT
SR 84 / GRAYSON-NEW HOPE RD
TS-187

REVISION DATES

NO.	DATE	DESCRIPTION

WSP

Georgia Department of Transportation

GDOT

Georgia Department of Transportation

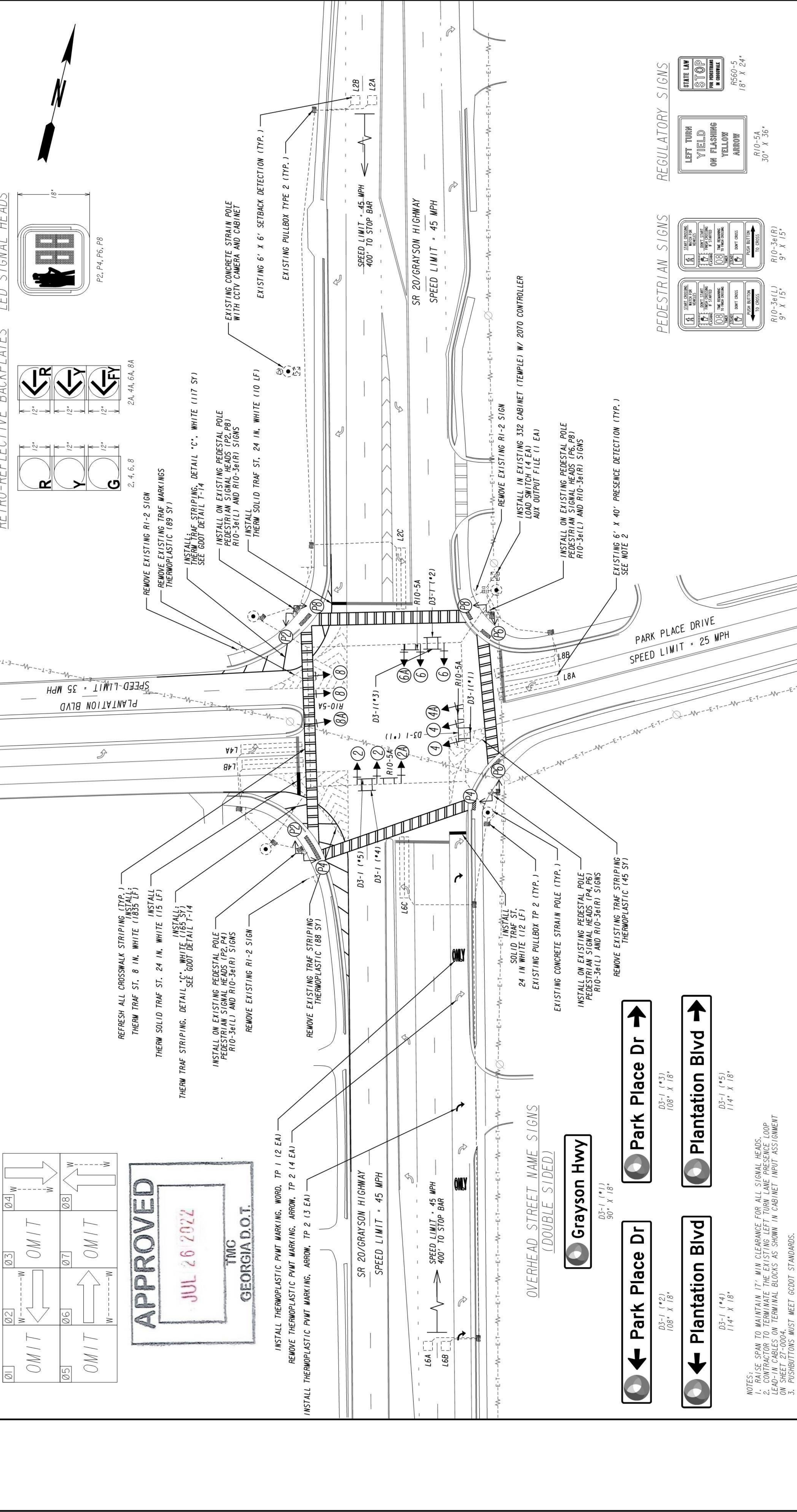
CHECKED: _____ **DATE:** _____

RECHECKED: _____ **DATE:** _____

CORRECTED: _____ **DATE:** _____

VERIFIED: _____ **DATE:** _____

DRAWING No. **27-0012**



REVISION DATES

NO.	DATE	DESCRIPTION

SIGNAL PLANS
SR 20/GRAYSON HWY AT PLANTATION BLVD/PARK PLACE DR TS-340

SCALE IN FEET
0 30 60 120

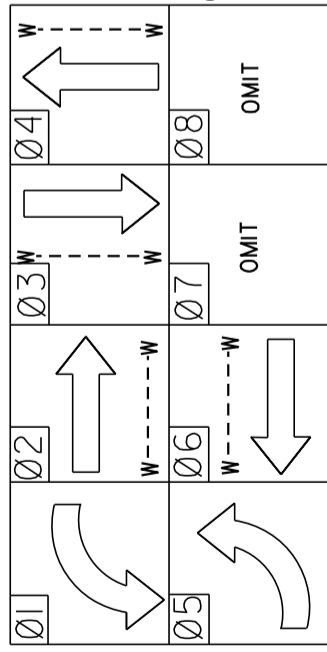
WSP

GDOT
Georgia Department of Transportation

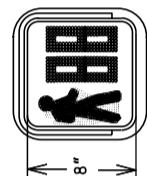
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CORRECTED:	DATE:
VERIFIED:	DATE:

DRAWING NO. 27-0003

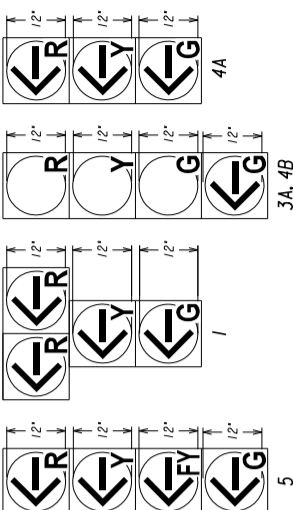
PHASING DIAGRAM



LED PEDESTRIAN SIGNAL HEADS



LED SIGNAL HEADS WITH RETRO-REFLECTIVE BACK PLATE



INSTALL: 10' PEDESTAL POLE (1 EA) LED COUNTDOWN PEDESTRIAN SIGNALS (P6 & P4) AND PUSHBUTTON STATIONS W/ SIGNS TYPE 2 PULLBOX (1 EA) CONDUIT NM, TP 2, 2-2" & 1-1" (30 LF)
 REMOVE: EXISTING PEDESTAL POLE (2 EA) PUSHBUTTON STATIONS AND LED COUNTDOWN ASSEMBLY
 INSTALL: 10' PEDESTAL POLE (1 EA) LED COUNTDOWN PEDESTRIAN SIGNALS (P3 & P6) AND PUSHBUTTON STATIONS W/ SIGNS TYPE 2 PULLBOX (1 EA) CONDUIT NM, TP 2, 2-2" & 1-1" (30 LF)
 INSTALL: STOP BAR RADAR DETECTION UNIT (R5A) ON EXISTING CONCRETE STRAIN POLE

INSTALL: 10' PEDESTAL POLE (1 EA) LED COUNTDOWN PEDESTRIAN SIGNALS (P3 & P6) AND PUSHBUTTON STATIONS W/ SIGNS TYPE 2 PULLBOX (1 EA) CONDUIT NM, TP 2, 2-2" & 1-1" (30 LF)
 INSTALL: STOP BAR RADAR DETECTION UNIT (R5A) ON EXISTING CONCRETE STRAIN POLE

INSTALL: 10' PEDESTAL POLE (1 EA) LED COUNTDOWN PEDESTRIAN SIGNALS (P3 & P6) AND PUSHBUTTON STATIONS W/ SIGNS TYPE 2 PULLBOX (1 EA) CONDUIT NM, TP 2, 2-2" & 1-1" (30 LF)
 INSTALL: STOP BAR RADAR DETECTION UNIT (R5A) ON EXISTING CONCRETE STRAIN POLE

INSTALL: 10' PEDESTAL POLE (1 EA) LED COUNTDOWN PEDESTRIAN SIGNALS (P3 & P6) AND PUSHBUTTON STATIONS W/ SIGNS TYPE 2 PULLBOX (1 EA) CONDUIT NM, TP 2, 2-2" & 1-1" (30 LF)
 INSTALL: STOP BAR RADAR DETECTION UNIT (R5A) ON EXISTING CONCRETE STRAIN POLE

6'x16' ADVANCED PRESENCE RADAR DETECTION ZONE SETBACK 400' FROM BACK OF STOP BAR (TYP.)

EXISTING: 332 CABINET WITH BBS TO REMAIN
 INSTALL: AUXILIARY FILE, SEE NOTE IN BOTTOM LEFT CORNER

INSTALL: 10' PEDESTAL POLE (1 EA) LED COUNTDOWN PEDESTRIAN SIGNALS (P4 & P2) AND PUSHBUTTON STATIONS W/ SIGNS TYPE 2 PULLBOX (1 EA) CONDUIT NM, TP 2, 2-2" & 1-1" (20 LF)

INSTALL: STOP BAR RADAR DETECTION UNIT (R1A) ON EXISTING CONCRETE STRAIN POLE
 REMOVE: EXISTING PEDESTAL POLE (1 EA) PUSHBUTTON STATIONS AND LED COUNTDOWN ASSEMBLY
 6'x40' PRESENCE RADAR DETECTION ZONE (TYP.)

INSTALL: STOP BAR RADAR DETECTION UNIT (R3A) ON EXISTING CONCRETE STRAIN POLE
 INSTALL: 15' LUMINAIRE ARM (1 EA) ADVANCED RADAR DETECTION UNIT (R6A & R6B)

INSTALL: STOP BAR RADAR DETECTION UNIT (R3A) ON EXISTING CONCRETE STRAIN POLE
 INSTALL: 15' LUMINAIRE ARM (1 EA) ADVANCED RADAR DETECTION UNIT (R6A & R6B)

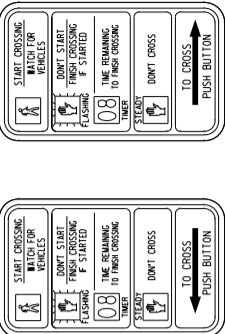
INSTALL: STOP BAR RADAR DETECTION UNIT (R3A) ON EXISTING CONCRETE STRAIN POLE
 INSTALL: 15' LUMINAIRE ARM (1 EA) ADVANCED RADAR DETECTION UNIT (R6A & R6B)

INSTALL: NEW OVERHEAD SPAN WIRE USING HIGHER ATTACHMENT POINTS ON THE EXISTING AND PROPOSED STRAIN POLES
 INSTALL ALL NEW SIGNAL HEADS AND CABLES ON NEW SPAN PRIOR TO REMOVING EXISTING SIGNAL SPAN
 (P3 & P2)

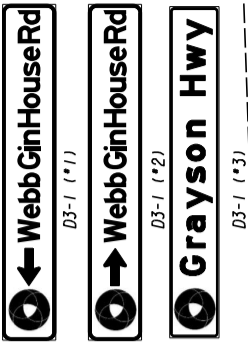
INSTALL: 10' PEDESTAL POLE (1 EA) LED COUNTDOWN PEDESTRIAN SIGNALS (P3 & P2) AND PUSHBUTTON STATIONS W/ SIGNS TYPE 2 PULLBOX (1 EA) CONDUIT NM, TP 2, 2-2" & 1-1" (170 LF)
 STRAIN POLE, TP IV, CONCRETE STRAIN POLE W/ 15' LUMINAIRE ARM (R4A, R4B & R4C)
 STOP BAR RADAR DETECTION UNIT (R2A, R2B & R2C) ADVANCED RADAR DETECTION UNIT (R2A & R2B) CONDUIT NM, TP 2, 3-2" & 2-1" (25 LF)

REMOVE: CONCRETE STRAIN POLE (1 EA) EXISTING VIDEO DETECTION CAMERA AND ASSEMBLY EXISTING PEDESTAL POLE (1 EA) PUSH BUTTONS STATIONS AND LED COUNTDOWN ASSEMBLY

PEDESTRIAN SIGNS



DOUBLE-SIDED OVERHEAD STREET NAME SIGNS

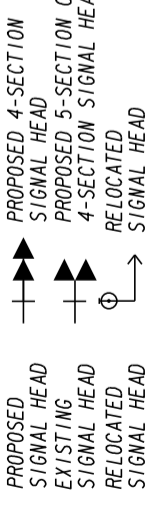


REGULATORY SIGNS



NOTES:
 1. VERIFY ALL RADAR UNIT PLACEMENT WITH THE MANUFACTURER
 2. AUXILIARY FILE MUST MATCH CABINET MANUFACTURER
 3. CONTACT THE POWER COMPANY TO RAISE EXISTING DUPLEX LINE

SIGNAL LEGEND



DETECTION LEGEND



REVISION DATES

NO.	DATE	DESCRIPTION

ENGINEERS
 PLANNERS
 SCIENTISTS
 CONSTRUCTION MANAGERS

2160 Satellite Boulevard
 Duluth, GA 30097
 Phone: 678-900-6200
 Fax: 678-900-6222
 www.kci.com

SCALE IN FEET



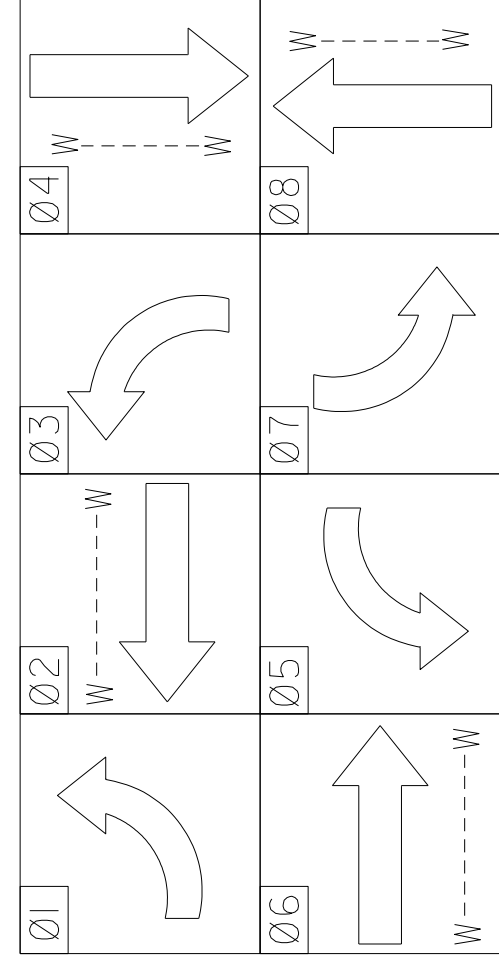
PROPOSED DESIGN

GWINNETT COUNTY
 DEPARTMENT OF TRANSPORTATION

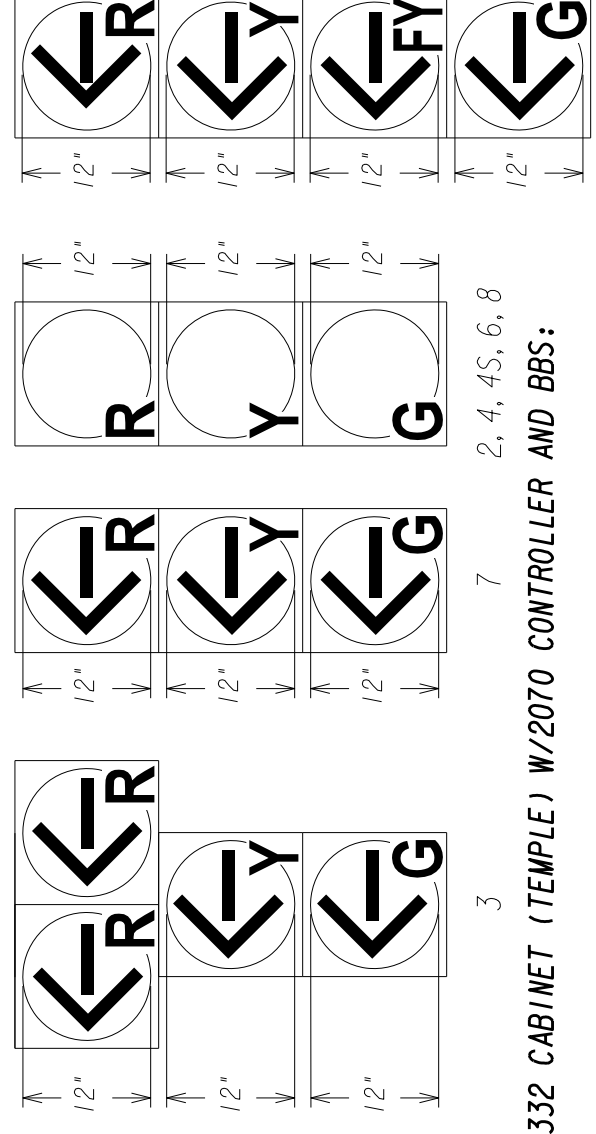
**WEBB GIN HOUSE RD @ SR 20
 TRAFFIC SIGNAL PLAN**
 GC #376

DRAWING NO. 27-004

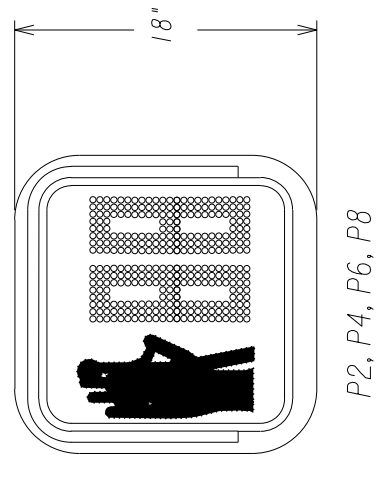
PHASING DIAGRAM



LED SIGNAL HEADS WITH RETRO-REFLECTIVE BACKPLATES



LED SIGNAL HEADS



INSTALL: THERMOPLASTIC PVMT MARKING, WORD, TP 1 (2 EA)

INSTALL: THERMOPLASTIC TRAF STRIPING, 24 IN. WHITE (36 LF)

RELOCATE EXISTING R560-5 SIGN

INSTALL: 8" WIDE CROSSWALK THERMOPLASTIC TRAF STRIPING, 8 IN. WHITE (270 LF)

INSTALL: THERMOPLASTIC TRAF STRIPING, DETAIL 'A', WHITE (53 SY) SEE GDOT DETAIL T-14

EXISTING STEEL STRAIN POLE W/65' MAST ARM

INSTALL: THERMOPLASTIC SKIP TRAF STRIPING, 18 IN. WHITE (20 GLF)

EXISTING VIDEO DETECTION ASSEMBLY (TYP.)

INSTALL: THERMOPLASTIC TRAF STRIPING, DETAIL 'C', WHITE (110 SY) (2' SEG., 2' GAP)

INSTALL: THERMOPLASTIC SKIP TRAF STRIPING, 5 IN. WHITE (50 GLF)

EXISTING 6' X 40' VIRTUAL PRESENCE DETECTION ZONE (TYP.)

EXISTING STEEL STRAIN POLE W/70' MAST ARM

EXISTING RI-2 SIGN

EXISTING PULLBOX, TP 1 (TYP.)

INSTALL: THERMOPLASTIC SKIP TRAF STRIPING, 5 IN. WHITE (95 GLF) (2' SEG., 6' GAP)

INSTALL: THERMOPLASTIC TRAF STRIPING, 18 IN. WHITE (40 GLF) (2' SEG., 2' GAP)

INSTALL IN EXISTING 332 CABINET (TEMPLE) W/2070 CONTROLLER AND BBS: LOAD SWITCH (2 EA) AUX OUTPUT FILE (1 EA)

EXISTING PULLBOX, TP 3

REMOVE EXISTING TRAFFIC MARKING (33 SY)

EXISTING STEEL STRAIN POLE W/65' MAST ARM

REMOVE EXISTING RI-2 SIGN

INSTALL: THERMOPLASTIC TRAF STRIPING, 24 IN. WHITE (36 LF)

INSTALL: THERMOPLASTIC TRAF STRIPING, 24 IN. WHITE (12 LF)

INSTALL: THERMOPLASTIC PVMT MARKING, -ARROW, TP 2 (1 EA)

REMOVE EXISTING R560-5 SIGN

INSTALL: R4-7c W/POST

INSTALL: THERMOPLASTIC TRAF STRIPING, DETAIL 'C', WHITE (157 SY) SEE GDOT DETAIL T-14

INSTALL: THERMOPLASTIC SKIP TRAF STRIPING, 18 IN. WHITE (20 GLF) (2' SEG., 2' GAP)

INSTALL: THERMOPLASTIC TRAF STRIPING, DETAIL 'A', WHITE (36 SY) SEE GDOT DETAIL T-14

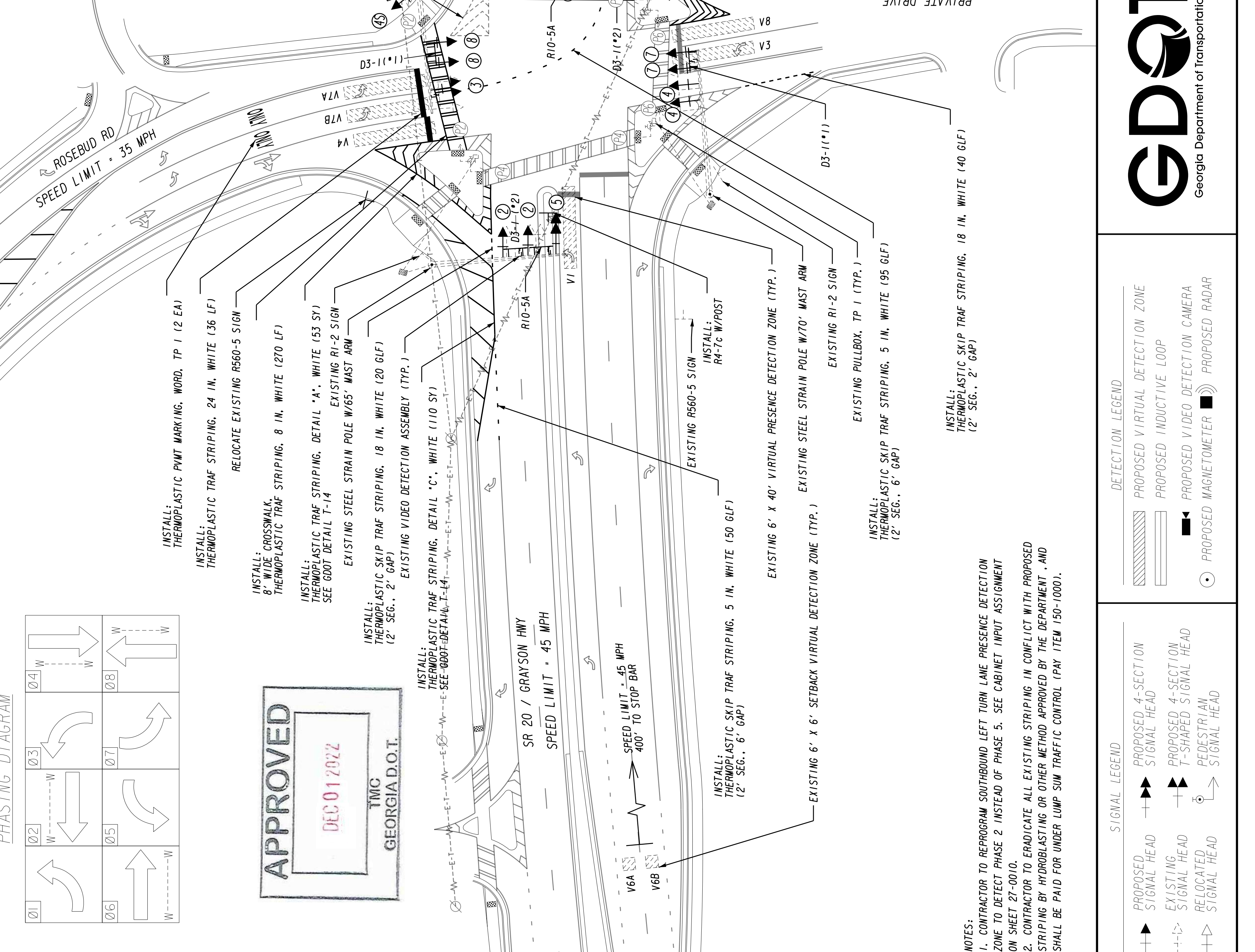
INSTALL: 8" WIDE CROSSWALK THERMOPLASTIC TRAF STRIPING, 8 IN. WHITE (400 LF)

EXISTING STEEL STRAIN POLE W/65' MAST ARM

EXISTING PULLBOX, TP 2 (TYP.)

EXISTING RI-2 SIGN

EXISTING R560-5 SIGN



- NOTES:
- CONTRACTOR TO REPROGRAM SOUTHWIND LEFT TURN LANE PRESENCE DETECTION ZONE TO DETECT PHASE 2 INSTEAD OF PHASE 5. SEE CABINET INPUT ASSIGNMENT ON SHEET 27-0010.
 - CONTRACTOR TO ERADICATE ALL EXISTING STRIPING IN CONFLICT WITH PROPOSED STRIPING BY HYDROBLASTING OR OTHER METHOD APPROVED BY THE DEPARTMENT. AND SHALL BE PAID FOR UNDER LUMP SUM TRAFFIC CONTROL (PAY ITEM 150-1000).

- DETECTION LEGEND
- PROPOSED VIRTUAL DETECTION ZONE
 - PROPOSED INDUCTIVE LOOP
 - PROPOSED VIDEO DETECTION CAMERA
 - PROPOSED MAGNETOMETER
 - PROPOSED RADAR

- SIGNAL LEGEND
- PROPOSED 4-SECTION SIGNAL HEAD
 - EXISTING 4-SECTION SIGNAL HEAD
 - RELOCATED 4-SECTION SIGNAL HEAD
 - PROPOSED T-SHAPED SIGNAL HEAD
 - EXISTING T-SHAPED SIGNAL HEAD
 - PROPOSED PEDESTRIAN SIGNAL HEAD
 - EXISTING PEDESTRIAN SIGNAL HEAD

- REGULATORY SIGNS
- LEFT TURN YIELD ON FLASHING YELLOW ARROW
 - YIELD
 - STOP

- PEDESTRIAN SIGNS
- R10-3e(L) 9' X 15"
 - R10-3e(R) 9' X 15"
 - R10-5A 30' X 36"
 - R4-7c 18' X 30"
 - R1-2 36' X 36"
 - R1-2 18' X 24"
 - R560-5 18' X 24"

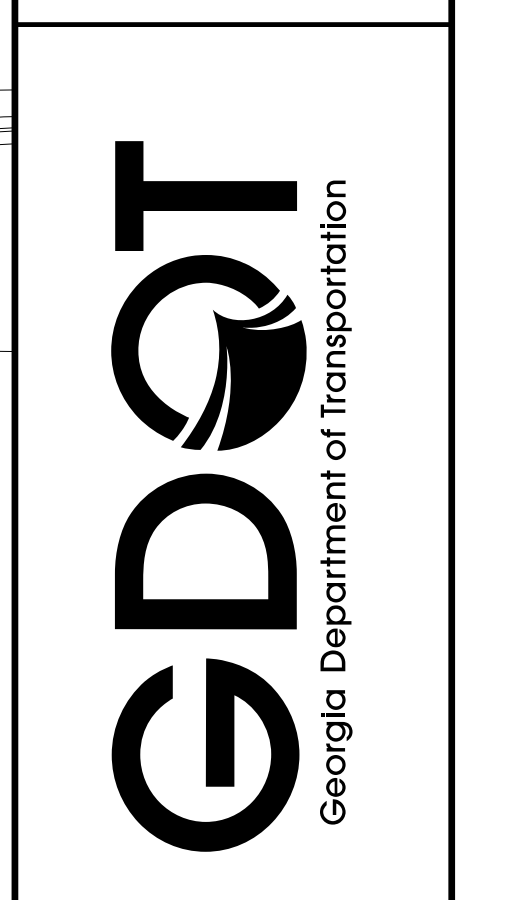
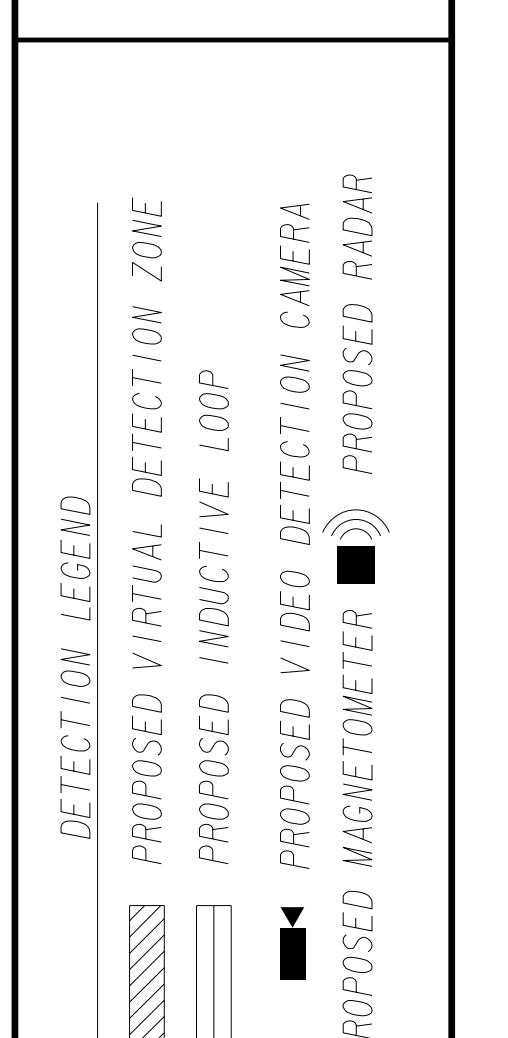
- OVERHEAD STREET NAME SIGNS
- Grayson Hwy 90' X 18" (D3-1(1))
 - Rosebud Rd 78' X 18" (D3-1(2))

REVISION DATES

NO.	DATE	DESCRIPTION

SIGNAL PLANS

SR 20 / GRAYSON HWY AT ROSEBUD RD	TS-386
CHECKED:	DATE:
RECHECKED:	DATE:
CORRECTED:	DATE:
VERIFIED:	DATE:
DRAWING NO. 27-0009	



CABINET INPUT ASSIGNMENT

SCOT	1	2	3	4	5	6	7	8	9	10	11	12	13	14
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UPPER INPUT FILE

TYPE	DET	DET	DET	DET	DET	DET	DET	DET	DET	TBA	TBA	DC	DC	DC
VIDEO	39	63	47	58	41	65	49	68	81			DC 150	DC 150	DC 150
CI PIN	V2A	V2C	V3	V4						80		Ø2 PED	Ø6 PED	FLSH
FIELD TERM	T82 1,2	T82 5,6	T82 9,10	T84 1,2	T84 5,6	T84 9,10	T86 1,2	T86 5,6	T86 9,10			T88 4,6	T88 7,9	N/C

CI PIN	56	43	76	47	58	45	78	49	62	53	69	70	82
FUNCTION	V2B		T82 11,12	T84 3,4	T84 7,8	T84 11,12	T86 3,4	T86 7,8	T86 11,12		Ø4 PED	Ø8 PED	STOP TIME
FIELD TERM	T82 3,4	T82 7,8	T82 11,12	T84 3,4	T84 7,8	T84 11,12	T86 3,4	T86 7,8	T86 11,12		T88 5,6	T88 8,9	N/C

LOWER INPUT FILE

TYPE	DET	DET	DET	DET	DET	DET	DET	DET	DET	TBA	TBA	DC	DC	DC
VIDEO														
CI PIN	55	40	64	48	57	42	66	50	59	54	71	72	51	
FUNCTION	V6A		V7A	V8	V7A	V8								
FIELD TERM	T83 1,2	T83 5,6	T83 9,10	T85 1,2	T85 5,6	T85 9,10	T87 1,2	T87 5,6	T87 9,10		T89 4,6	T89 7,9	T89 10,12	

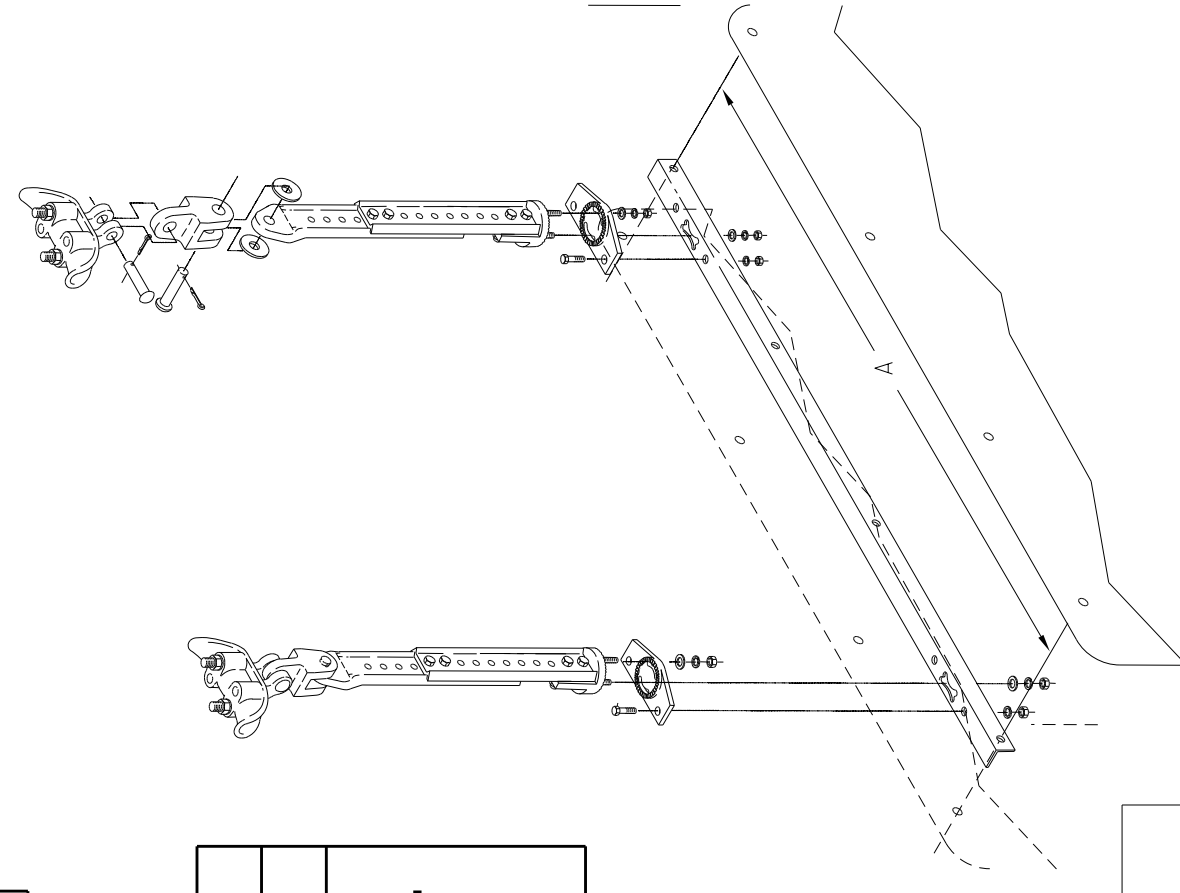
CI PIN	55	44	77	48	57	46	79	50	61	75	73	74	52
FUNCTION	V6B		V7B										
FIELD TERM	T83 3,4	T83 7,8	T83 11,12	T85 3,4	T85 7,8	T85 11,12	T87 3,4	T87 7,8	T87 11,12		T89 5,6	T89 8,9	T89 11,12

PELCO SPAN WIRE SIGN BRACKET (SE-5219)

GENERAL NOTES FOR OVERHEAD STREET NAME SIGNS

- EACH SIGN SHALL CONTAIN A MINIMUM OF (2) HANGERS OR BRACKETS.
- THE CONTRACTOR SHALL CONTACT GWINNETT COUNTY DEPARTMENT OF TRANSPORTATION @ 678-639-8800 FOR AN ELECTRONIC FILE OF LOGO.
- SIGN PANELS SHALL BE FABRICATED OF ONE CONTINUOUS UNSPLICED PIECE OF ALUMINUM.
- ALL SIGNS SHALL BE WHITE TYPE 9 REFLECTORIZED LEGEND AND BORDER ON STANDARD INTERSTATE GREEN TYPE 9 REFLECTORIZED BACKGROUND.
- FOR MOUNTING ON SIGNAL SPAN WIRE USE (1) ONE PELCO SP-5262-L (L=LENGTH OF SIGN MINUS 6 INCHES) OR EQUIVALENT SIGN HANGER PER SIGN OR PER PAIR OF BACK-TO-BACK MOUNTED SIGNS. HANGER SHALL CONSIST OF A CONTINUOUS ANGLE BRACKET, RUNNING THE LENGTH OF THE SIGN, WITH TWO (2) ADJUSTABLE SPAN WIRE ATTACHMENTS. SPAN WIRE HANGER AND SIGN SHALL BE CHECKED WITH A SPURT LEVEL AND ADJUSTED SO THAT SIGN IS LEVEL. ATTACH BACK-TO-BACK SIGNS TO OPPOSITE SIDES OF SIGN BRACKET SO THAT NO AREA OF SIGN SURFACE IS COVERED. RIVET SIGN BLADES TOGETHER ALONG BOTTOM EDGE.
- ENSURE SIGNS ARE MOUNTED TO AVOID BLOCKING VIEW OF SIGNAL HEADS FROM APPROACHING TRAFFIC.

MOUNTING DIMENSIONS			
H	A	B	C
12"	9"	1/2"	36"
18"	15"	1/2"	24"
24"	18"	1/2"	18"
30"	24"	3"	12"

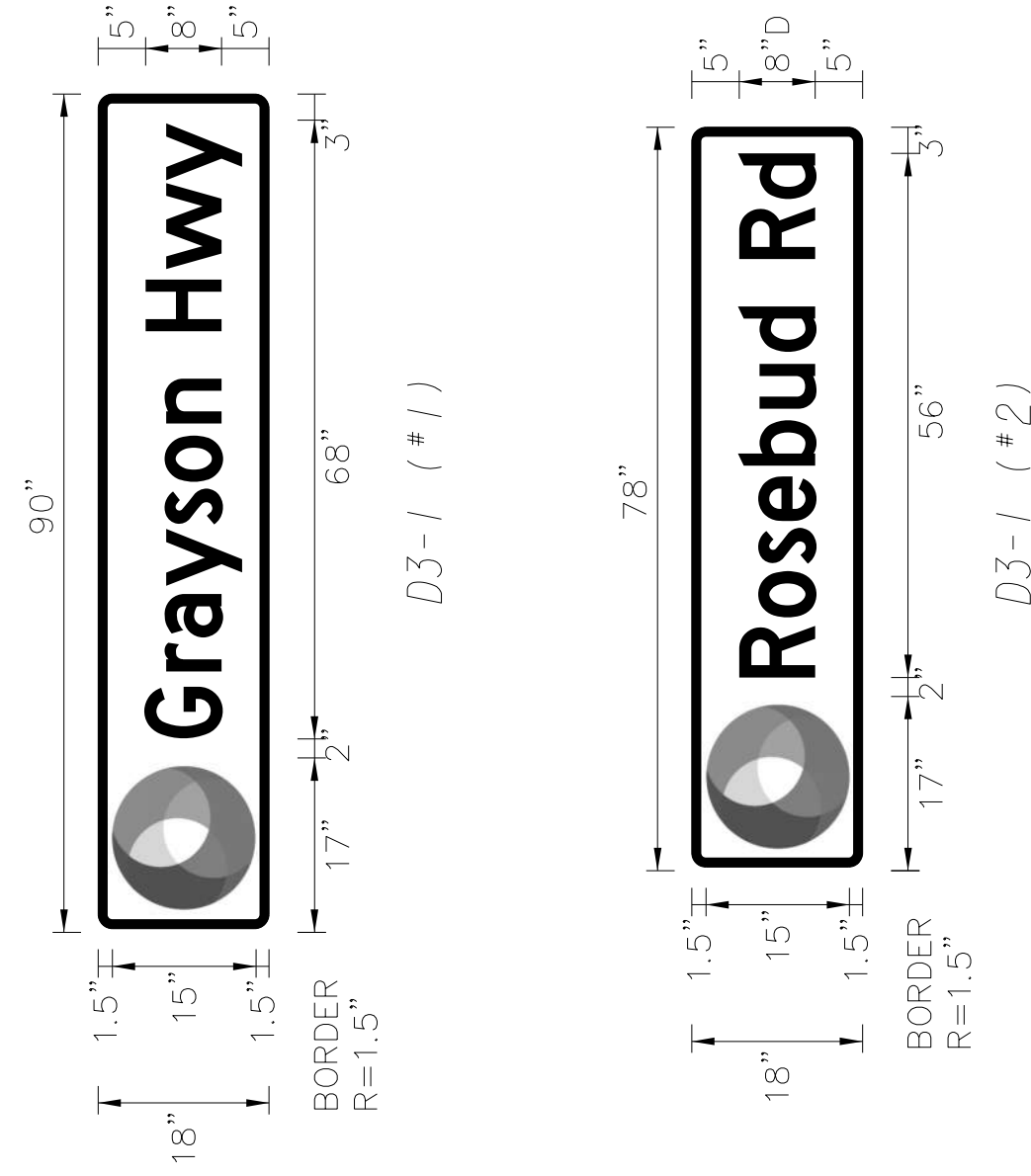


LIST OF MATERIALS (INSTALLATION *5)

CONTROLLER CABINET ASSEMBLIES	UNIT	QUANTITY
F. SWITCH PACK (Load Switch)	EA	2
M. AUXILIARY OUTPUT FILE	EA	1
N. 2018 KCLIP CONFLICT MONITOR, EXTENDED FEATURES	EA	1
SIGNAL CABLE (14 AWG); 7 CONDUCTOR, PER 1000 FT.	REEL	3
3-SECTION, 12" SIGNAL HEAD LED - , BLACK HOUSING w/ BLACK FRONT, PLASTIC	EA	11
4-SECTION, 12" SIGNAL HEAD LED - , BLACK HOUSING w/ BLACK FRONT, PLASTIC	EA	2
4-SECTION, T-SHAPED, 12" SIGNAL HEAD LED - , BLACK HOUSING w/ BLACK FRONT, PLASTIC	EA	1
BACK PLATE FOR ONE-WAY, 3-SECTION, 12" SIGNAL HEAD, ABS PLASTIC, BLACK w/ 2" RETROREFLECTIVE STRIP	EA	11
BACK PLATE FOR ONE-WAY, 4-SECTION, 12" SIGNAL HEAD, ABS PLASTIC, BLACK w/ 2" RETROREFLECTIVE STRIP	EA	2
BACK PLATE FOR ONE-WAY, 4-SECTION, T-SHAPED 12" SIGNAL HEAD, ABS PLASTIC, BLACK w/ 2" RETROREFLECTIVE STRIP	EA	1
HARDWARE FOR MAST ARM MOUNTING	EA	14
R4-7c W/ POST	EA	2
R10-5A, LEFT TURN YIELD ON FLASHING YELLOW SIGN	EA	2
MISCELLANEOUS MATERIALS NEEDED TO COMPLETE INSTALLATION	LUMP	LUMP

NOTE: QUANTITIES ARE FOR INFORMATION ONLY. THE CONTRACTOR SHOULD FIELD VERIFY PRIOR TO ORDERING MATERIALS.

OVERHEAD STREET NAME SIGN DETAILS



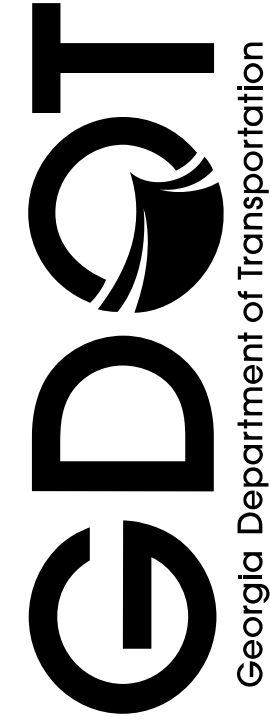
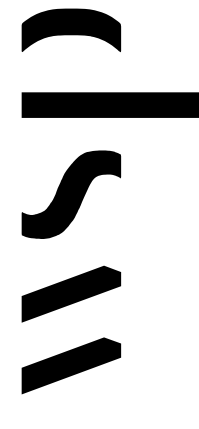
SUMMARY OF QUANTITIES

Pay Item	Description	Unit	Quantity
150-1000	TRAFFIC CONTROL	LS	1
647-1000	TRAFFIC SIGNAL INSTALLATION NO 5	LS	1
636-1041	HIGHWAY SIGNS, TP 2 MATL, REFL SHEETING, TP 9	SF	41
653-0120	THERMOPLASTIC PVMT MARKING, ARROW, TP 2	EA	1
653-0210	THERMOPLASTIC PVMT MARKING, WORD, TP 1	EA	2
653-1704	THERM SOLID TRAF ST, 24 IN WHITE	LF	84
653-1804	THERM SOLID TRAF ST, 8, WHITE	LF	670
653-3501	THERMOPLASTIC SKIP TRAF STRIPE, 5 IN, WHITE	GLF	200
653-4830	THERMOPLASTIC SKIP TRAF STRIPE, 18 IN, WHITE	GLF	80
653-6004	THERMOPLASTIC TRAF STRIPING, WHITE	SY	356
656-4001	REMOVE EXIST TRAF MARKINGS, THERMOPLASTIC	SY	33

REVISION DATES

NO.	DATE	DESCRIPTION

SIGNAL PLANS
SR 20 / GRAYSON HWY AT
ROSEBUD RD TS-386



CHECKED:	DATE:

DRAWING No.
27-0010

332 CABINET INPUT ASSIGNMENT

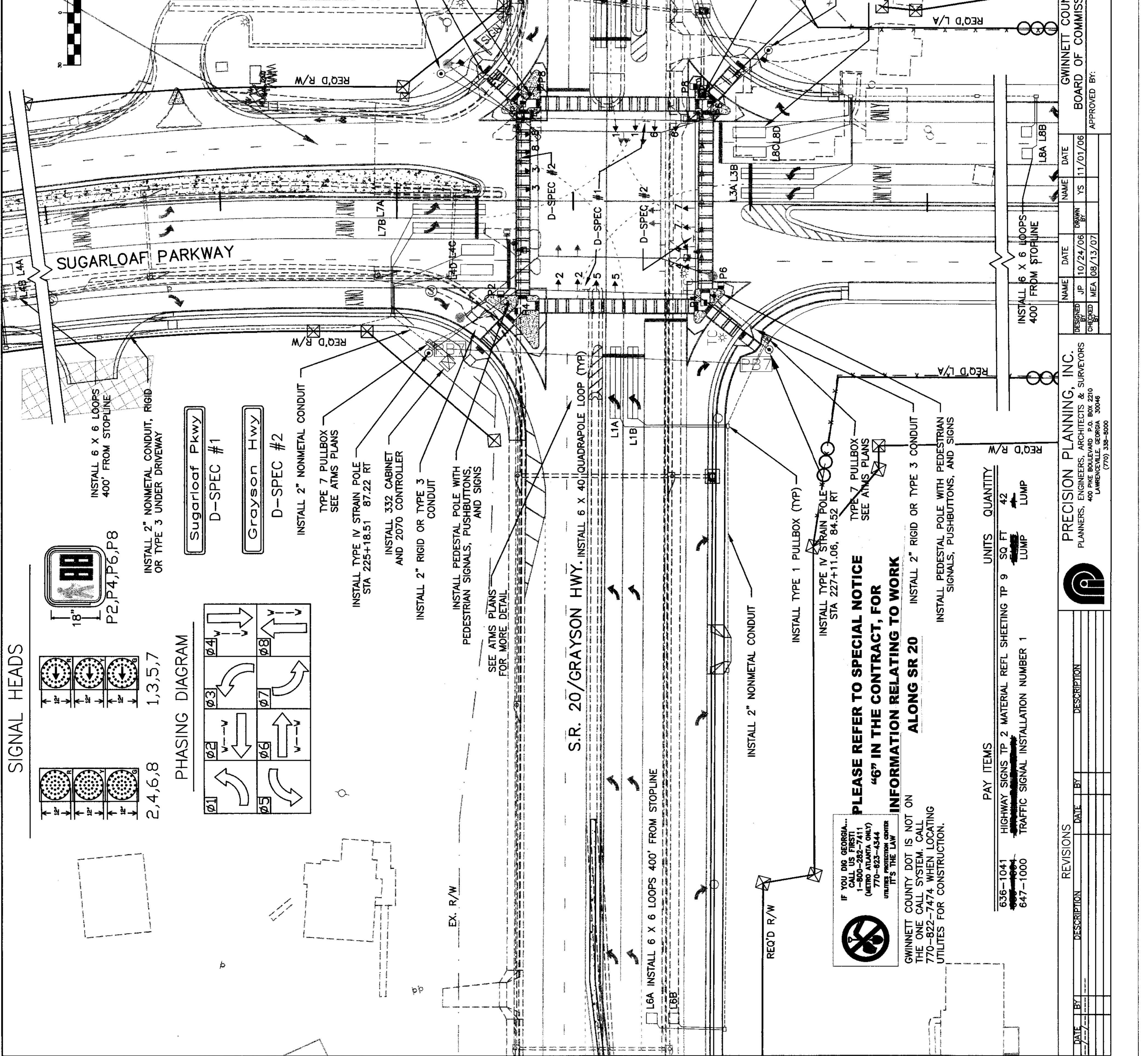
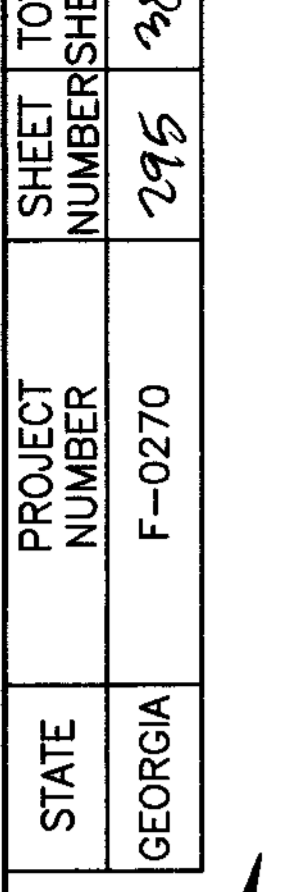
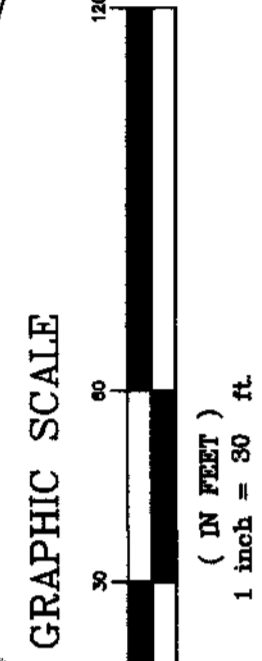
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UPPER INPUT FILE

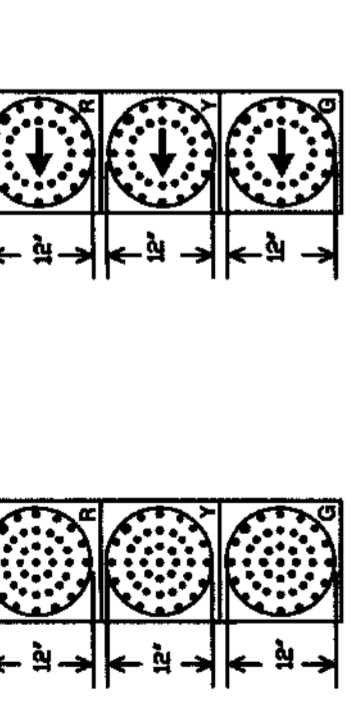
CHANNEL	1	2	3	4	5	6	7	8	9	10	11	12	13	14
TYPE	DET	DET	DET	DET	DET	DET	DET	DET	DET	DET	DET	DET	DET	DET
DC	DC	DC	DC	DC	DC	DC	DC	DC	DC	DC	DC	DC	DC	DC

LOWER INPUT FILE

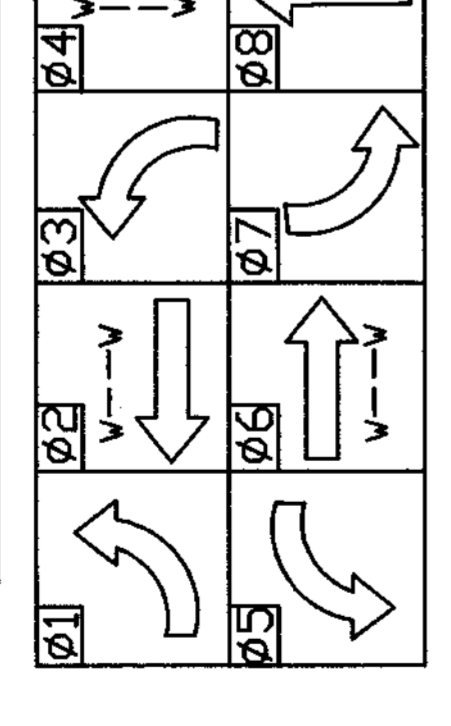
CHANNEL	1	2	3	4	5	6	7	8	9	10	11	12	13	14
TYPE	DET	DET	DET	DET	DET	DET	DET	DET	DET	DET	DET	DET	DET	DET
DC	DC	DC	DC	DC	DC	DC	DC	DC	DC	DC	DC	DC	DC	DC



SIGNAL HEADS



PHASING DIAGRAM



PLEASE REFER TO SPECIAL NOTICE "G" IN THE CONTRACT, FOR INFORMATION RELATING TO WORK ALONG SR 20

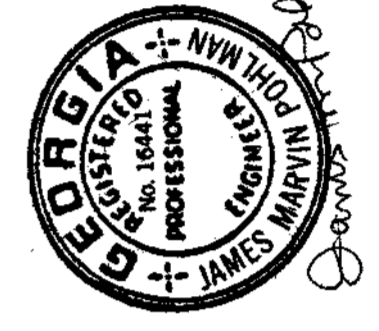
IF YOU DIG GEORGIA... CALL US FIRST! (METRO AREA ONLY) 770-823-4344 UNLESS NOTED OTHERWISE IT'S THE LAW

CHWINETT COUNTY DOT IS NOT ON THE ONE CALL SYSTEM. CALL 770-822-7474 WHEN LOCATING UTILITIES FOR CONSTRUCTION.

PAY ITEMS

NO.	DESCRIPTION	UNITS	QUANTITY
636-1041	HIGHWAY SIGNS TP 2	SQ FT	42
647-1000	TRAFFIC SIGNAL INSTALLATION NUMBER 1	LUMP	1

SEE SPECIAL NOTICE #6 IN THE CONTRACT DOCUMENT FOR A LIST OF MATERIALS FOR TRAFFIC SIGNAL INSTALLATION NO. 1



DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

NAME	DATE	DRWN BY	DATE
J.P.	10/24/06	YS	11/01/06
ME	08/13/07		

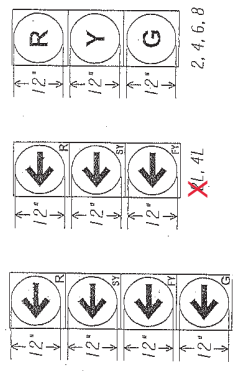
PRECISION PLANNING, INC.
PLANNERS, ENGINEERS, ARCHITECTS & SURVEYORS
400 PIKE BOULEVARD, P.O. BOX 2210
LAWRENCEVILLE, GEORGIA 30046
(770) 338-9000

GWINNETT COUNTY BOARD OF COMMISSIONERS
APPROVED BY: _____ DATE: _____

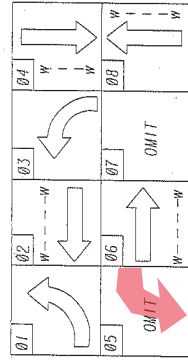
SUGARLOAF PARKWAY EXTENSION PHASE 1 - SECTION 1
SIGNAL PLAN
SIGNAL INSTALLATION NO. 1 - S.R. 20 @ SUGARLOAF PARKWAY

DRAWING NUMBER 27.02

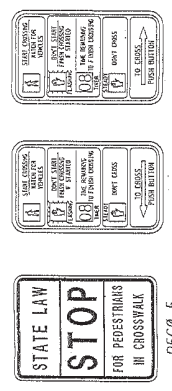
LED SIGNAL HEADS WITH REFLECTIVE BORDER ON BACKPLATE



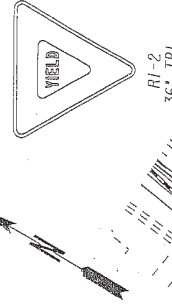
PHASING DIAGRAM



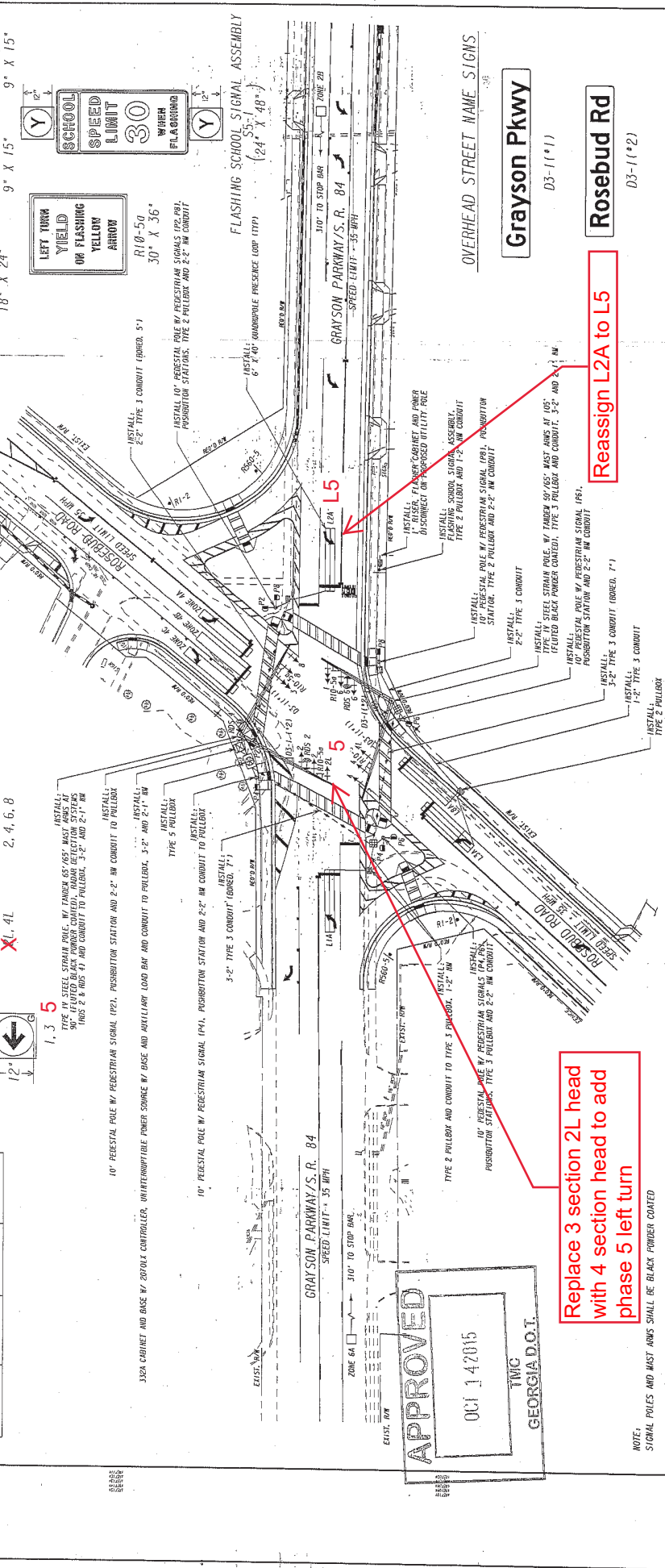
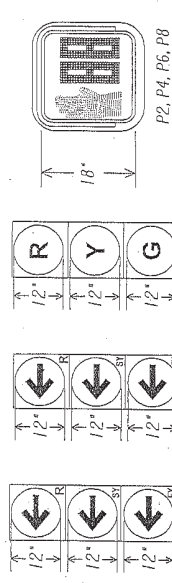
TRAFFIC SIGNS



FLASHING SCHOOL SIGNAL ASSEMBLY



OVERHEAD STREET NAME SIGNS



APPROVED
 OCT 14 2015
 TWC
 GEORGIA D.O.T.

Michael Baker INTERNATIONAL
 1100 N. GOSPEL HILL ROAD
 SUITE 200
 FAYETTEVILLE, GA 30215
 (770) 263-3988

CLIENT: GWINNETT COUNTY
 DEPARTMENT: DEPARTMENT OF TRANSPORTATION
 OFFICE: PROGRAM DELIVERY
 SIGNAL PLANS

DRAWING NO. 27-003

SCALE IN FEET: 0, 30, 60, 120

REVISION DATES:

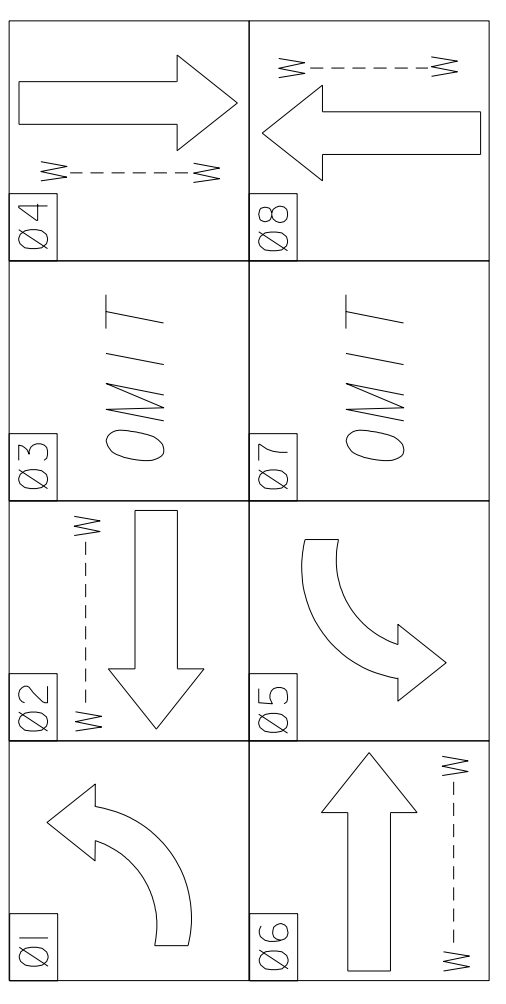
PROPERTY AND EXISTING ROW LINE
 REQUIRED ROW LINE
 CONSTRUCTION LIMITS
 EASEMENT FOR CONSTR. & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR. OF DRAVES
 EASEMENT FOR CONSTR. OF DRAVES

BEGIN LIMIT OF ACCESS
 END LIMIT OF ACCESS
 LIMIT OF ACCESS
 RED'D ROW & LIMIT OF ACCESS

SIGNAL POLES AND MAST ARMS SHALL BE BLACK POWDER COATED

NOTE:
 1. SIGNAL POLES AND MAST ARMS SHALL BE BLACK POWDER COATED

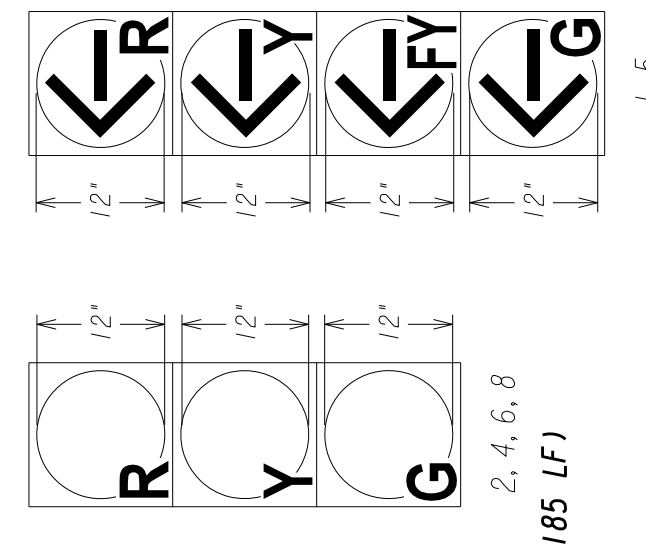
PHASING DIAGRAM



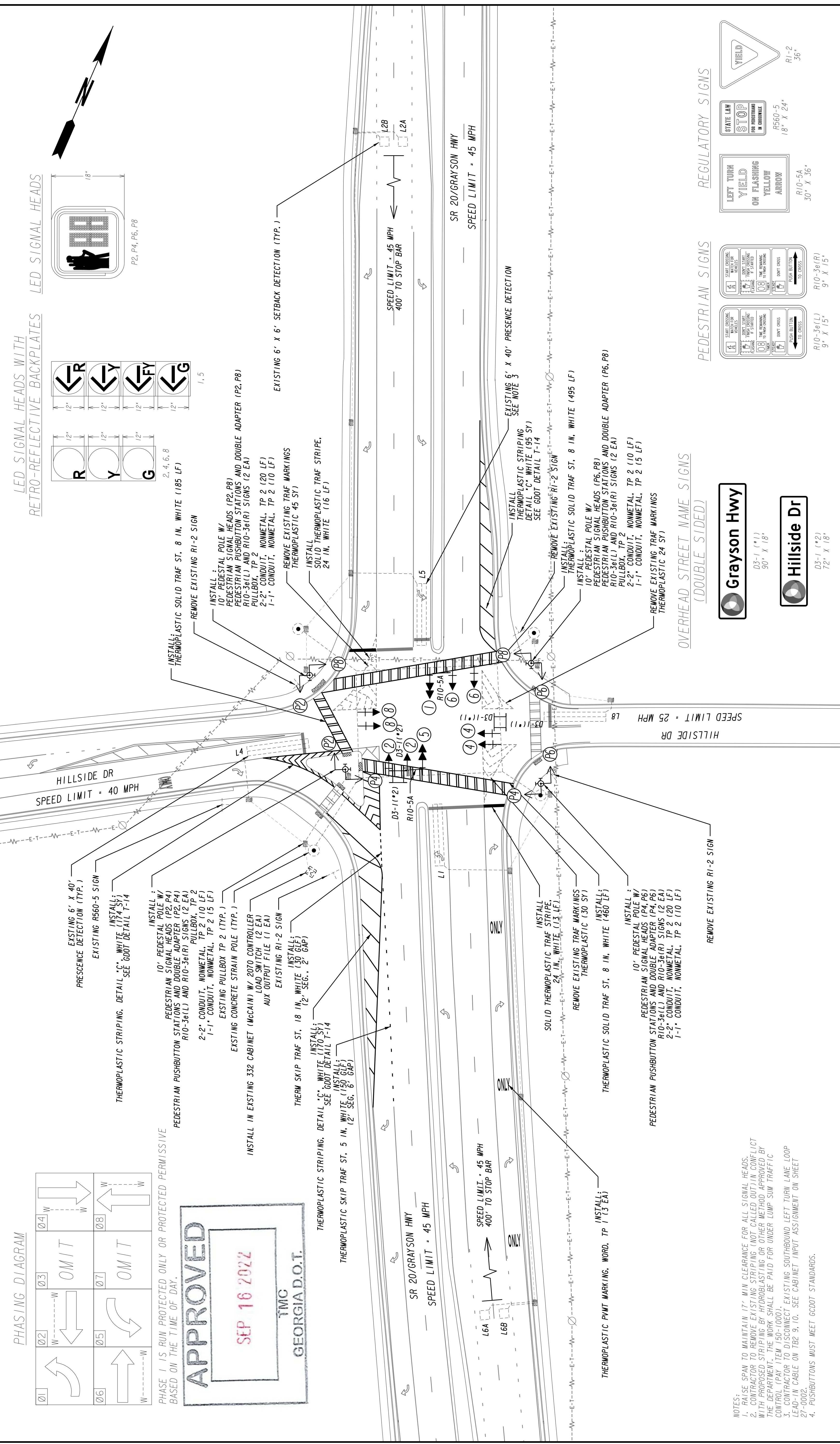
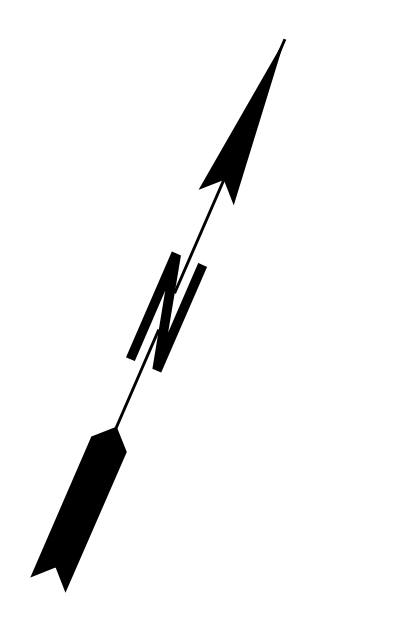
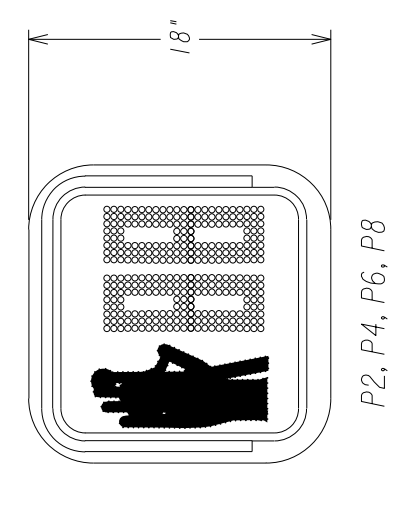
PHASE 1 IS RUN PROTECTED ONLY OR PROTECTED PERMISSIVE BASED ON THE TIME OF DAY.



LED SIGNAL HEADS WITH RETRO-REFLECTIVE BACKPLATES



LED SIGNAL HEADS



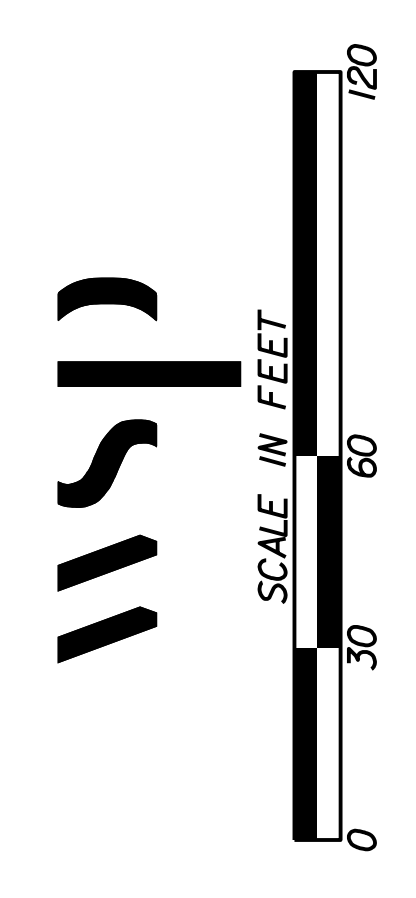
- NOTES:**
1. RAISE SPAN TO MAINTAIN 17' MIN CLEARANCE FOR ALL SIGNAL HEADS.
 2. CONTRACTOR TO REMOVE EXISTING STRIPING (NOT CALLED OUT) IN CONFLICT WITH PROPOSED STRIPING BY HYDROBLASTING OR OTHER METHOD APPROVED BY THE DEPARTMENT. THE WORK SHALL BE PAID FOR UNDER LUMP SUM TRAFFIC CONTROL (PAY ITEM 150-1000).
 3. CONTRACTOR TO DISCONNECT EXISTING SOUTHWEST LEFT TURN LANE LOOP LEAD-IN CABLE ON TB2 9.10. SEE CABINET INPUT ASSIGNMENT ON SHEET 27-0002.
 4. PUSHBUTTONS MUST MEET GDOT STANDARDS.

SIGNAL LEGEND

➔	PROPOSED SIGNAL HEAD	➔➔	PROPOSED 4-SECTION SIGNAL HEAD
- - - ➔	EXISTING SIGNAL HEAD	➔➔➔	PROPOSED 5-SECTION (CLUSTER) SIGNAL HEAD
➔	RELOCATED SIGNAL HEAD	➔➔➔➔	PEDESTRIAN SIGNAL HEAD

DETECTION LEGEND

▨	PROPOSED VIRTUAL DETECTION ZONE
▬	PROPOSED INDUCTIVE LOOP
➔	PROPOSED VIDEO DETECTION CAMERA
○	PROPOSED MAGNETOMETER
➔	PROPOSED RADAR

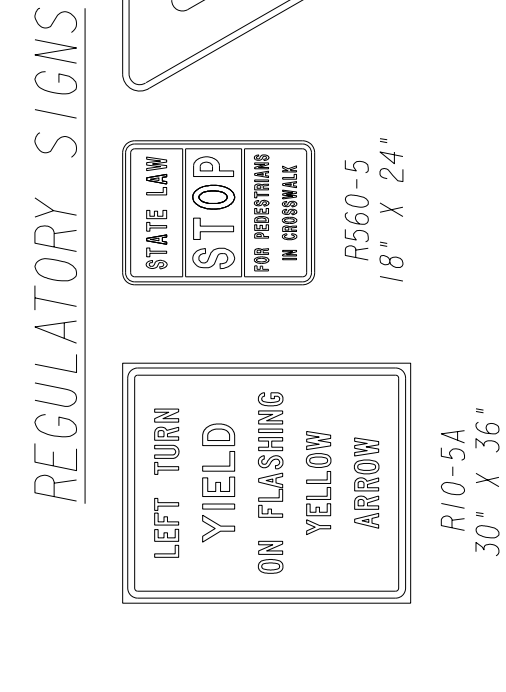
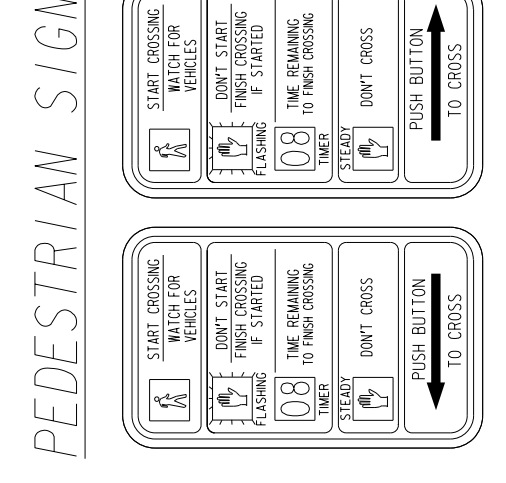
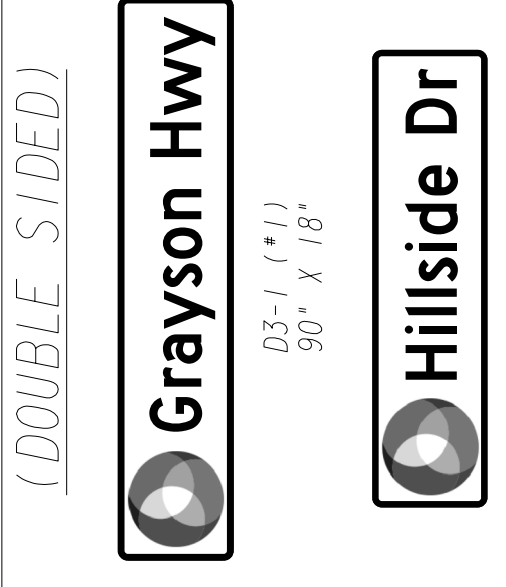


REVISION DATES

NO.	DATE	DESCRIPTION

SIGNAL PLANS
SR 20/GRAYSON HWY
AT HILLSIDE DR TS-567

CHECKED:	DATE:	DRAWING NO.
DESIGNED:	DATE:	27-0005
CORRECTED:	DATE:	
VERIFIED:	DATE:	



CABINET INPUT ASSIGNMENT

SLOT	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	TBA	TBA	DC	DC	DC	DC
CARD	2 CH	2 CH			2 CH						DC 150	DC 150	DC 150	DC 150
C1 PIN	55	39	63	47	58	41	65	49	80		67	68	81	81
FUNCTION	L1	L2A			L4						82 PED	86 PED	FLASH	
FIELD TERM	T82.12	T82.56	T82.910	T84.12	T84.56	T84.910	T86.12	T86.56	T86.910		T88.46	T88.79	N/C	

C1 PIN	56	43	76	47	58	45	78	49	62		69	70	82
FUNCTION	L2B										84 PED	88 PED	STOP TIME
FIELD TERM	T82.34	T82.78	T82.112	T84.34	T84.78	T84.112	T86.34	T86.78	T86.112		T88.56	T88.89	N/C

LOWER INPUT FILE

TYPE	DET	DET	DET	DET	DET	DET	DET	DET	TBA	TBA	DC	DC	DC
CARD	2 CH	2 CH			2 CH								DC
C1 PIN	55	48	64	48	57	42	66	50	59	54	71	72	51
FUNCTION	L5	L6A			L8								
FIELD TERM	T83.12	T83.56	T83.910	T85.12	T85.56	T85.910	T87.12	T87.56	T87.910		T89.46	T89.79	T89.102

C1 PIN	56	44	77	48	57	46	79	50	61	75	73	74	52
FUNCTION	L8B												
FIELD TERM	T83.34	T83.78	T83.112	T85.34	T85.78	T85.112	T87.34	T87.78	T87.112		T89.56	T89.89	T89.112

PELCO SPAN WIRE SIGN BRACKET (SE-5219)

GENERAL NOTES FOR OVERHEAD STREET NAME SIGNS

- EACH SIGN SHALL CONTAIN A MINIMUM OF (2) HANGERS OR BRACKETS.
- THE CONTRACTOR SHALL CONTACT GWINNETT COUNTY DEPARTMENT OF TRANSPORTATION @ 678-639-8800 FOR AN ELECTRONIC FILE OF LOGS.
- SIGN PANELS SHALL BE FABRICATED OF ONE CONTINUOUS UNSPLICED PIECE OF ALUMINUM.
- ALL SIGNS SHALL BE WHITE TYPE 9 REFLECTORIZED LEGEND AND BORDER ON STANDARD INTERSTATE GREEN TYPE 9 REFLECTORIZED BACKGROUND.
- FOR MOUNTING ON SIGNAL SPAN WIRE, USE (1) ONE PELCO SP-5262-L (1) LENGTH OF SIGN MINUS 6 INCHES OR EQUIVALENT SIGN HANGER PER SIGN OR PER PAIR OF BACK-TO-BACK MOUNTED SIGNS. HANGER SHALL CONSIST OF A CONTINUOUS ANGLE BRACKET, RUNNING THE LENGTH OF THE SIGN, WITH TWO (2) ADJUSTABLE SPAN WIRE ATTACHMENTS. HANGER SHALL BE CONSTRUCTED OF ALUMINUM WITH STAINLESS STEEL FASTENERS. AFTER ATTACHING TO SPAN WIRE, THE HANGER SHALL BE TIGHTENED TO THE SIGN AND ADJUSTED TO 50 LB. FORCE. THE HANGER IS TO BE LEVEL, ATTACH BACK-TO-BACK SIGNS TO OPPOSITE SIDES OF SIGN BRACKET SO THAT NO AREA OF SIGN SURFACE IS COVERED. RIVET SIGN BLADES TOGETHER ALONG BOTTOM EDGE.
- ENSURE SIGNS ARE MOUNTED TO AVOID BLOCKING VIEW OF SIGNAL HEADS FROM APPROACHING TRAFFIC.

MOUNTING DIMENSIONS			
H	A	B	C
12"	9"	1/2"	36"
18"	15"	1/2"	24"
24"	18"	1/2"	18"
30"	24"	3"	12"

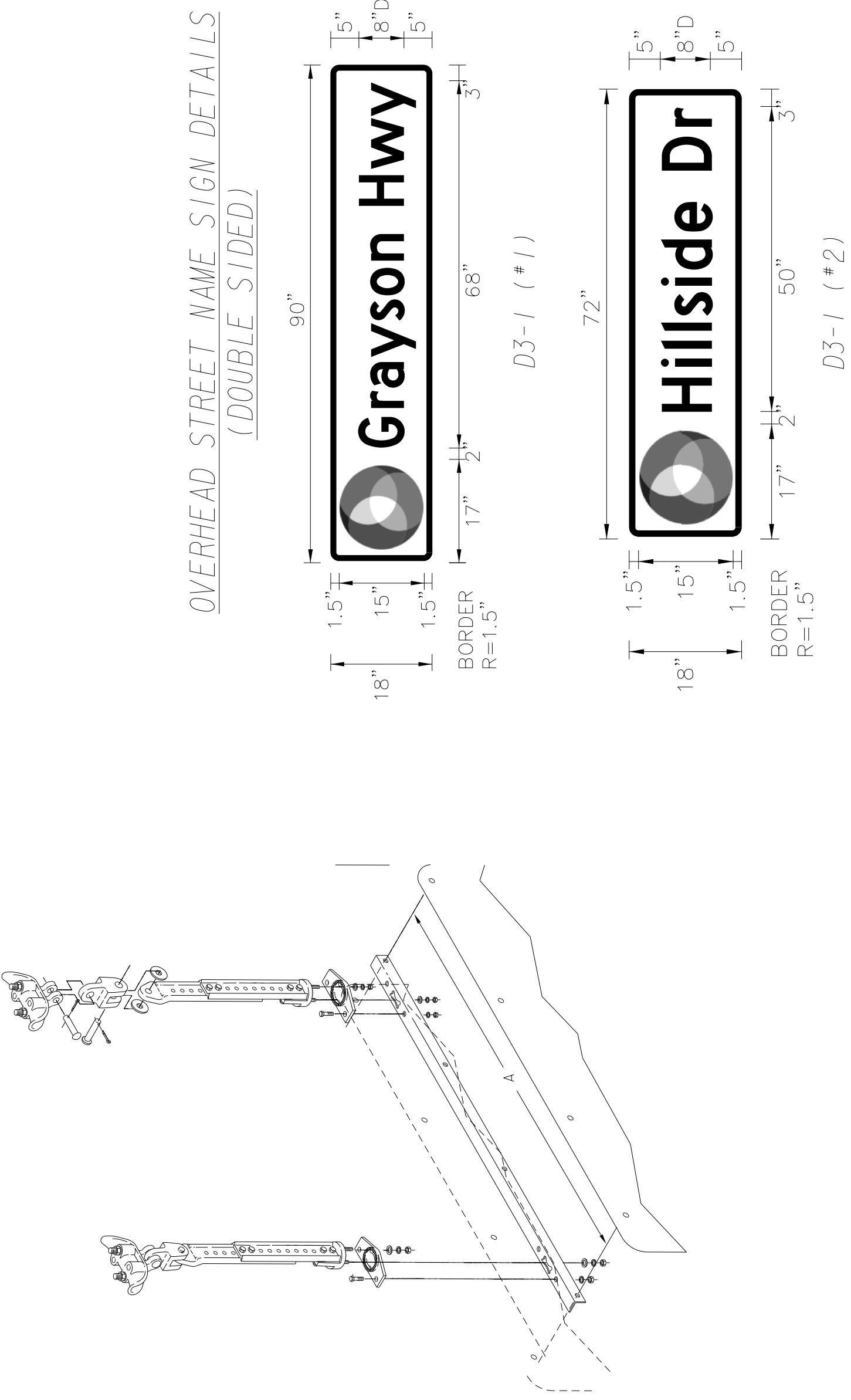
SUMMARY OF QUANTITIES

Pay Item	Description	Unit	Quantity
150-1000	TRAFFIC CONTROL	LS	1
636-1033	HIGHWAY SIGNS, TP 1 MATL, REEL SHEETING, TP 9	SF	18
636-1041	HIGHWAY SIGNS, TP 2 MATL, REEL SHEETING, TP 9	SF	22
647-1000	TRAFFIC SIGNAL INSTALLATION NO 3	LS	1
653-0210	THERM PYMT MARKING, WORD, TP 1	EA	3
653-1704	THERM SOLID TRAF ST, 24 IN WHITE	LF	29
653-1804	THERM SOLID TRAF ST, 8 IN, WHITE	LF	1140
653-3501	THERM SKIP TRAF ST, 5 IN, WHITE	GLF	150
653-4830	THERMOPLASTIC SKIP TRAF STRIPE, 18 IN, WHITE	GLF	30
653-6004	THERMOPLASTIC TRAF STRIPING, WHITE	SY	439
656-4001	REMOVE EXIST TRAF MARKINGS, THERMOPLASTIC	SY	99

LIST OF MATERIALS (INSTALLATION *3)

CONTROLLER CABINET ASSEMBLIES	UNIT	QUANTITY
F. SWITCH PACK (Load Switch)	EA	2
M. AUXILIARY OUTPUT FILE	EA	1
N. 2018 KLIP CONFLICT MONITOR, EXTENDED FEATURES	EA	1
PED LEAD-IN WIRE (SHIELDED, TWISTED/1000 FT); 3 PAIR, 18 AWG	REEL	1
SIGNAL CABLE (14 AWG); 7 CONDUCTOR, PER 1000 FT.	REEL	2
3-SECTION, 12" SIGNAL HEAD LED - , BLACK HOUSING w/ BLACK FRONT, PLASTIC	EA	8
4-SECTION, 12" SIGNAL HEAD LED - , BLACK HOUSING w/ BLACK FRONT, PLASTIC	EA	2
1-SECTION, 18" LED COUNTDOWN PEDESTRIAN SIGNAL HEAD, FULL HAND/MAN OVERLAP (9" HIGH NUMBER & 12" SYMBOLS)	EA	8
PEDESTRIAN PUSHBUTTON STATIONS, W/BUTTONS & SIGNS		
9" X 15", R10-3e, (Left or Right), Countdown	EA	8
PEDESTRIAN PUSHBUTTON STATION ADAPTERS (ONLY)		
9" X 15", Double Push Button Station Adapter for 4" Dia Pedestrian Pole, Adjustable	EA	4
10" PEDESTAL POLE W/SQUARE BASE	EA	4
BACK PLATE FOR ONE-WAY, 3-SECTION, 12" SIGNAL HEAD, ABS PLASTIC, BLACK w/ 2" RETROREFLECTIVE STRIP	EA	8
BACK PLATE FOR ONE-WAY, 4-SECTION, 12" SIGNAL HEAD, ABS PLASTIC, BLACK w/ 2" RETROREFLECTIVE STRIP	EA	2
HARDWARE FOR SPANWIRE MOUNTING (3 or 4 Section Signals)	EA	10
HARDWARE FOR PEDESTAL POLE, SIDE OF POLE MOUNTING, ONE-WAY BRACKET ASSEMBLY, CLAMSHELL	EA	8
R10-5A, LEFT TURN YIELD ON FLASHING YELLOW SIGN	EA	2
MISCELLANEOUS MATERIALS NEEDED TO COMPLETE INSTALLATION	LUMP	LUMP

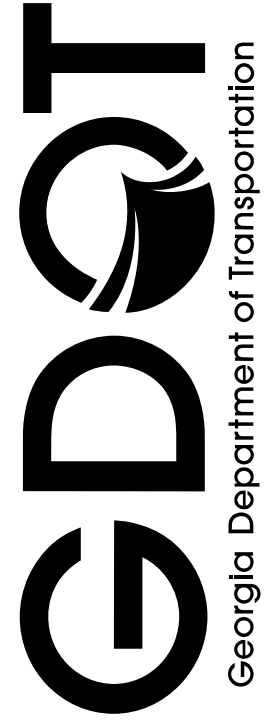
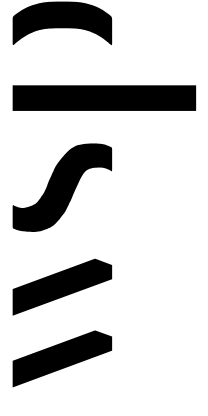
NOTE: QUANTITIES ARE FOR INFORMATION ONLY. THE CONTRACTOR SHOULD FIELD VERIFY PRIOR TO ORDERING MATERIALS.



REVISION DATES

NO.	DATE	DESCRIPTION

SIGNAL PLANS
SR 20/GRAYSON HWY AT
HILLSIDE DR TS-567



CHECKED:	DATE:

DRAWING NO.
27-0006



REVISIONS		
No.	DATE	DESCRIPTION
1	11/02/21	GDOT COMMENTS
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		

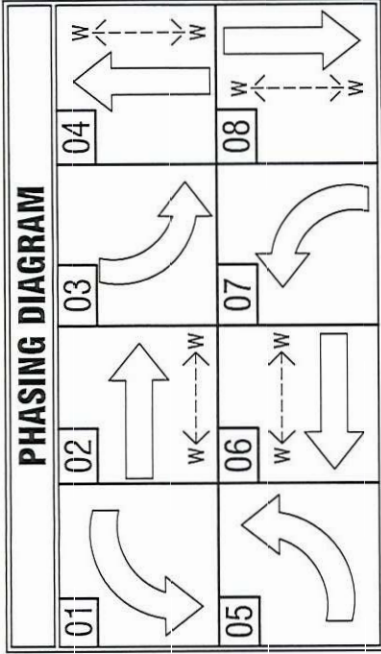
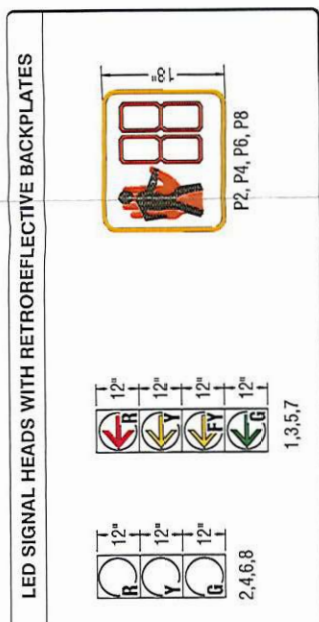
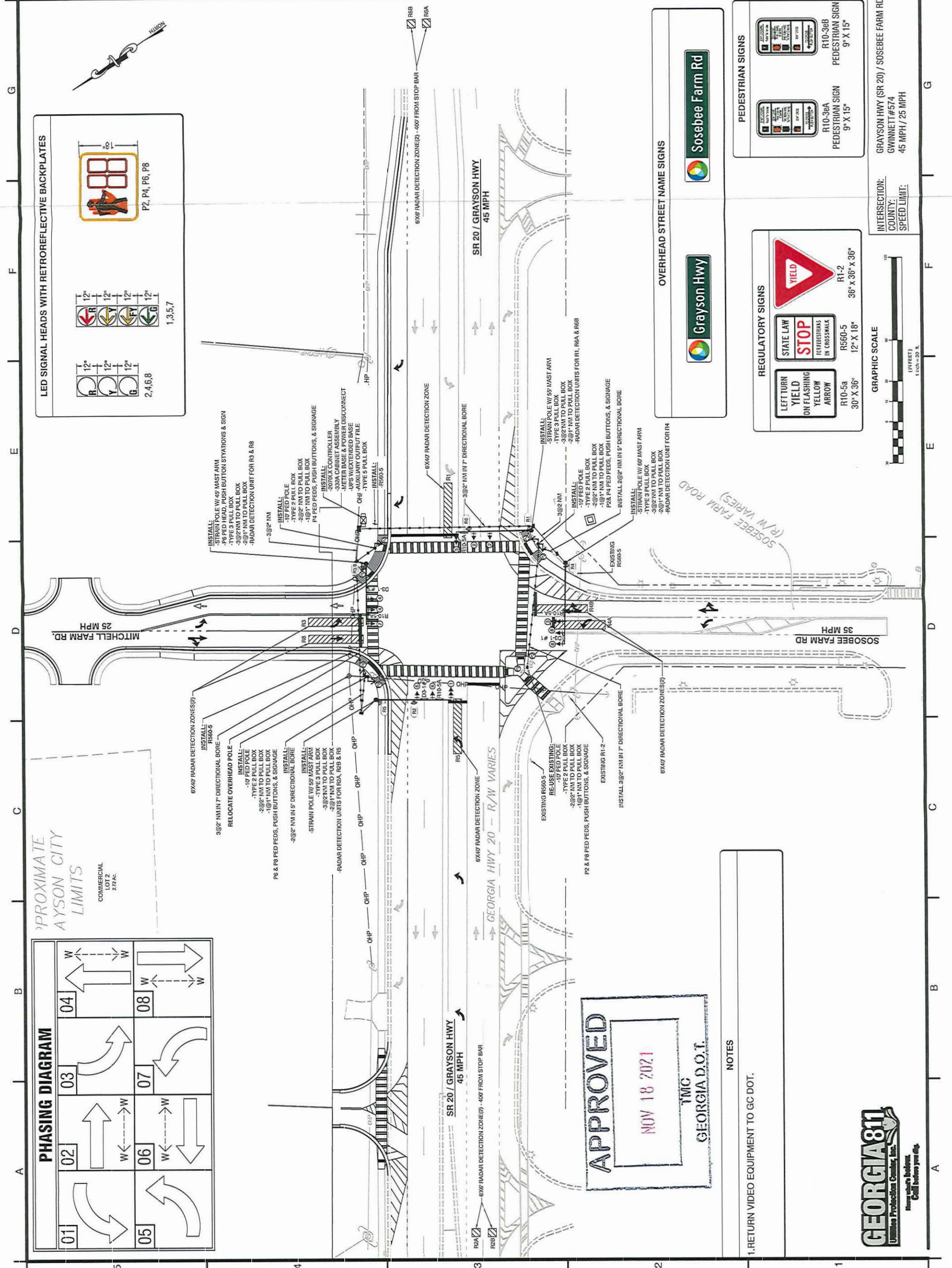
NOT RELEASED FOR CONSTRUCTION

PREPARED FOR
 LAND SOLUTION ASSOC., LLC
 P.O. BOX 1404
 GRAYSON, GA 30017

SIGNAL MODIFICATION PLAN
 SR 20 & SOSEBEE FARM RD
 CLARKE LAKE VILLAGE
 SIGNAL MODIFICATION DESIGN
 SR 20 (GRAYSON HWY) & MITCHELL FARM RD
 GRAYSON, GA

24 HOUR CONTACT
 ABDUL AMER
 770-690-9255

ASR PROJECT # 21-024
 SHEET IDENTIFICATION
CT-1701



APPROVED
 NOV 18 2021
 TMC
 GEORGIA D.O.T.

NOTES
 1. RETURN VIDEO EQUIPMENT TO GC DOT.

REGULATORY SIGNS

- LEFT TURN YIELD ON FLASHING YELLOW ARROW: R10-5a, 30" x 36"
- STATE LAW STOP FOR PEDESTRIANS IN CROSSWALKS: R560-5, 12" x 18"
- YIELD: R1-2, 36" x 36" x 36"

OVERHEAD STREET NAME SIGNS

- Grayson Hwy
- Sosebee Farm Rd

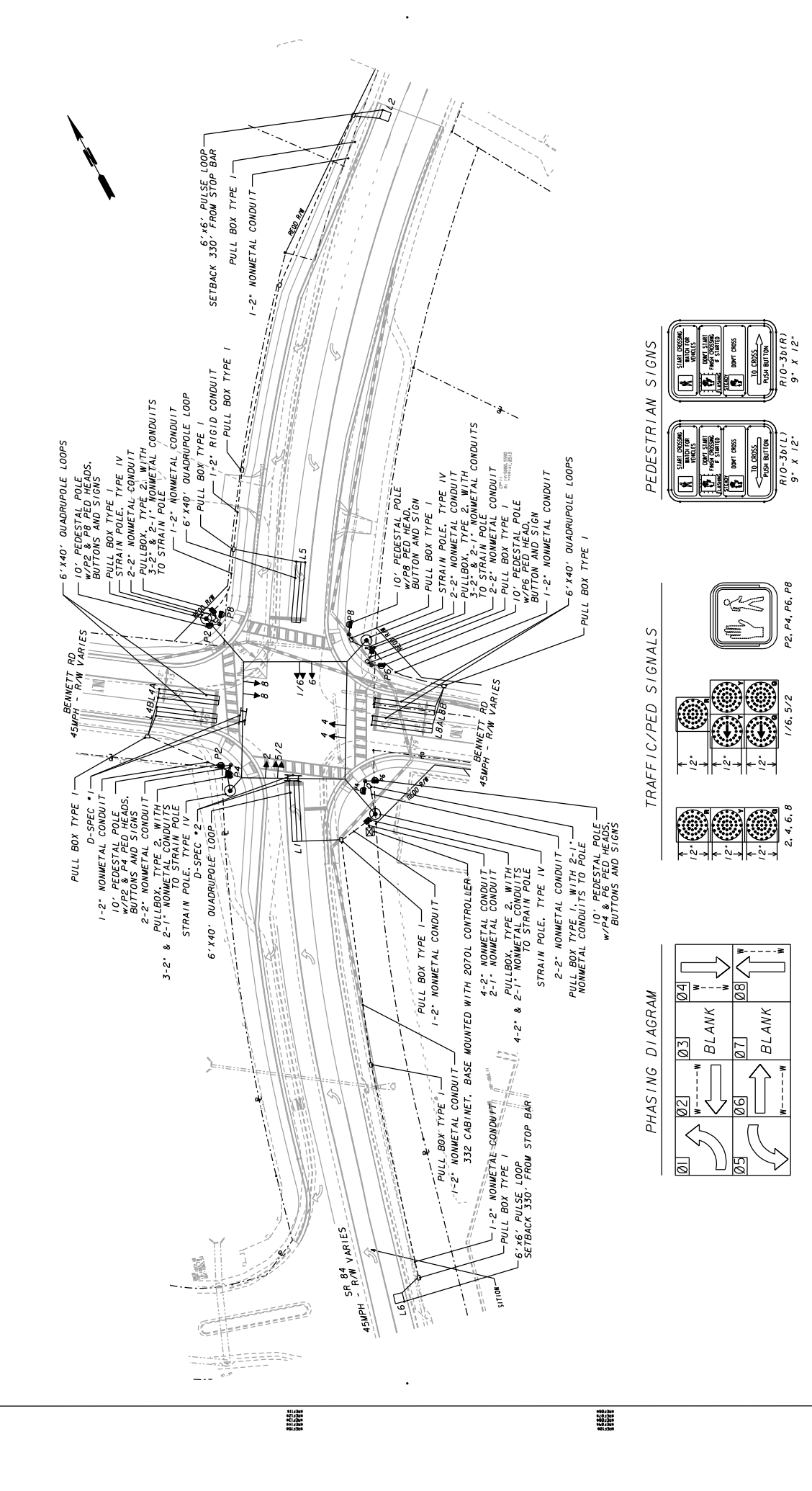
PEDESTRIAN SIGNS

- R10-36A PEDESTRIAN SIGN: 9" x 15"
- R10-36B PEDESTRIAN SIGN: 9" x 15"

GRAPHIC SCALE
 1" = 30' (IN FEET)
 1" = 60' (IN FEET)

INTERSECTION: GRAYSON HWY (SR 20) / SOSEBEE FARM RD
 COUNTY: GWINNETT #574
 SPEED LIMIT: 45 MPH / 25 MPH





PHASING DIAGRAM

Ø1	Ø2	Ø3	Ø4
		BLANK	
W	W	W	W
Ø5	Ø6	Ø7	Ø8
		BLANK	
W	W	W	W

TRAFFIC/PED SIGNALS

P2, P4, P6, P8

PEDESTRIAN SIGNS

REVISION DATES

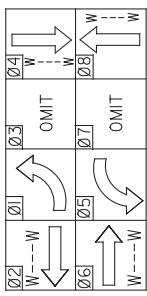
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#REV17	#REV17	#REV17
#REV16	#REV16	#REV16
#REV15	#REV15	#REV15
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#REV13	#REV13	#REV13
#REV12	#REV12	#REV12

SCALE IN FEET

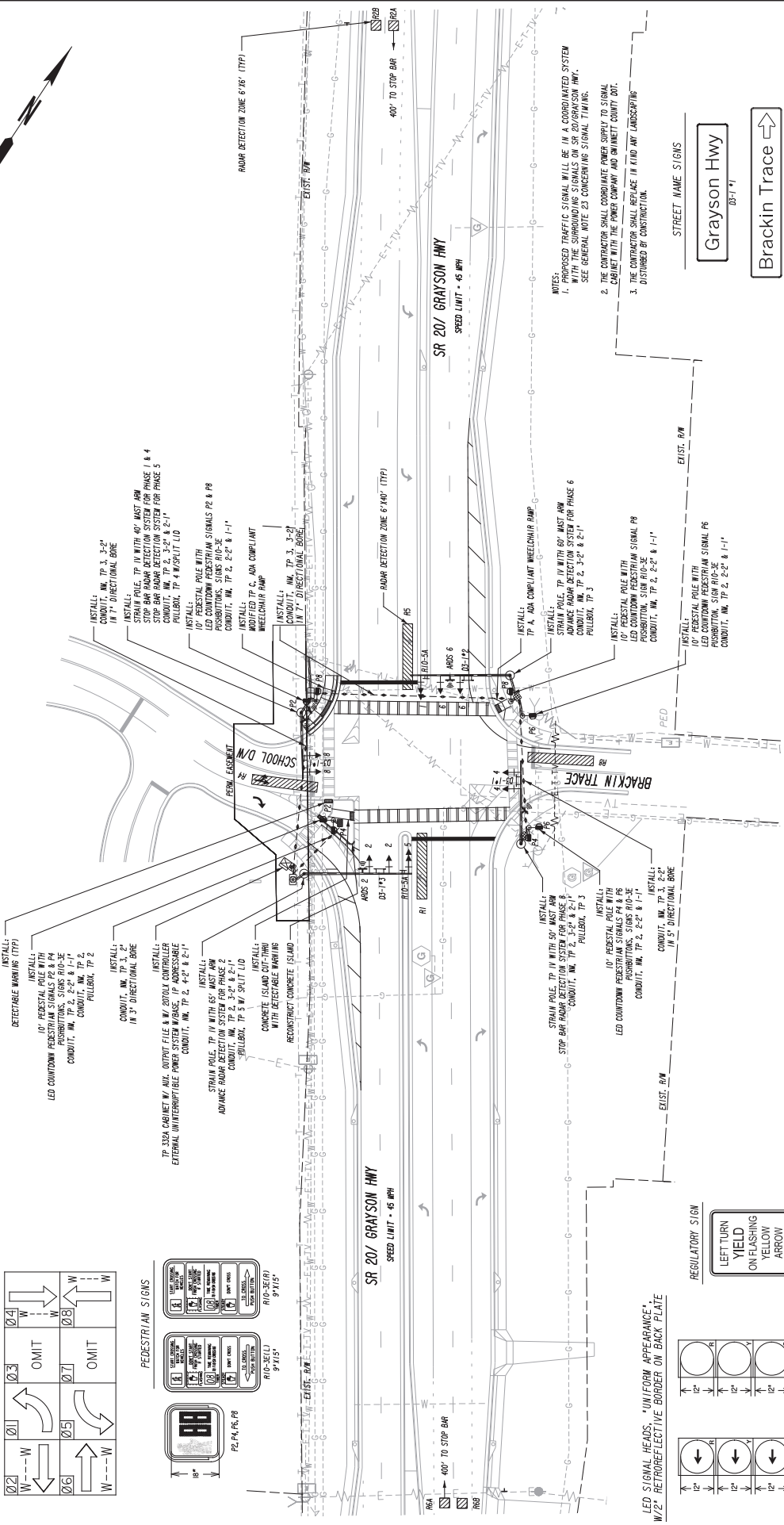
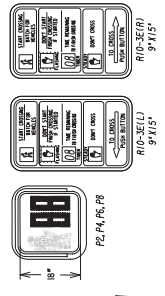
GWINNETT COUNTY
 DEPARTMENT OF TRANSPORTATION
 OFFICE: \$OFFICE\$
 SIGNAL PLANS
 INSTALLATION # 1
 INSTALLATION PLAN
 \$PROJECT\$ \$DATE\$ \$\$\$\$

DRAWING NO. 27-04

PHASING DIAGRAM



PEDESTRIAN SIGNS



- NOTES:
- PROPOSED TRAFFIC SIGNAL WILL BE IN A COORDINATED SYSTEM WITH THE TRAFFIC SIGNAL AT THE INTERSECTION OF SR 20/ GRAYSON HWY. SEE GENERAL NOTE 23 CONCERNING SIGNAL TIMING.
 - THE CONTRACTOR SHALL COORDINATE POWER SUPPLY TO SIGNAL CABINET WITH THE POWER COMPANY AND BRACKET COUNTY DOT.
 - THE CONTRACTOR SHALL REPLACE IN KIND ANY LANDSCAPING DISTURBED BY CONSTRUCTION.

HNTB
 3715 NORTHSIDE PARKWAY, NW
 200 NORTHCREEK, SUITE 800
 ATLANTA, GEORGIA 30327

GW INNIETT COUNTY
 DEPARTMENT OF TRANSPORTATION

SIGNAL PLANS
 TRAFFIC SIGNAL INSTALLATION
 SR 20 / GRAYSON HWY
 AT BRACKIN TRACE

REVISION DATES

SCALE IN FEET
 0 30 60 120

DRAWING NO.
TS-003