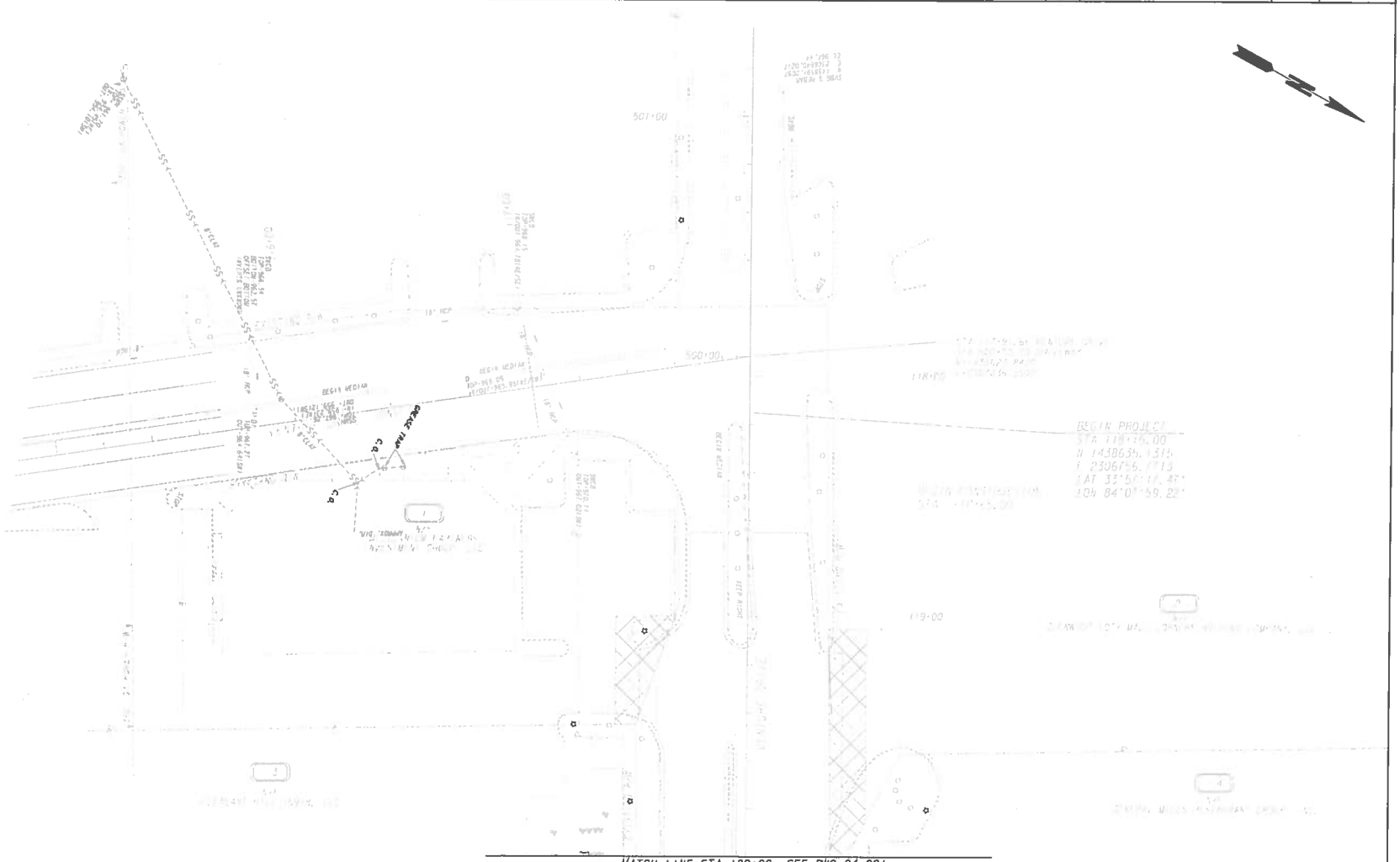
08/21/2014 3:15:58 PM	ePRFS	V:\1782\active\178202026\Roadway\DGN\Phase 1\Phase 1A\156354TUT01.DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
USER:wwest			GA	W-0676 Phase 1A	17	42



MATCH LINE STA 120+00. SEE DWG 24-001

APPROVED BY GWINNETT COUNTY DEPARTMENT OF WATER RESOURCES

DATE

GWINNETT PLACE COMMUNITY IMPROVEMENT DISTRICT

Stantec

SCALE IN FEET
0 20 40 80

REVISION DATES		

GWINNETT COUNTY
DEPARTMENT OF TRANSPORTATION
OFFICE:
UTILITY PLANS

PLEASANT HILL ROAD AND VENTURE DRIVE IMPROVEMENTS
W-0676 Phase 1A 08/21/2014

DRAWING NO. 24-001

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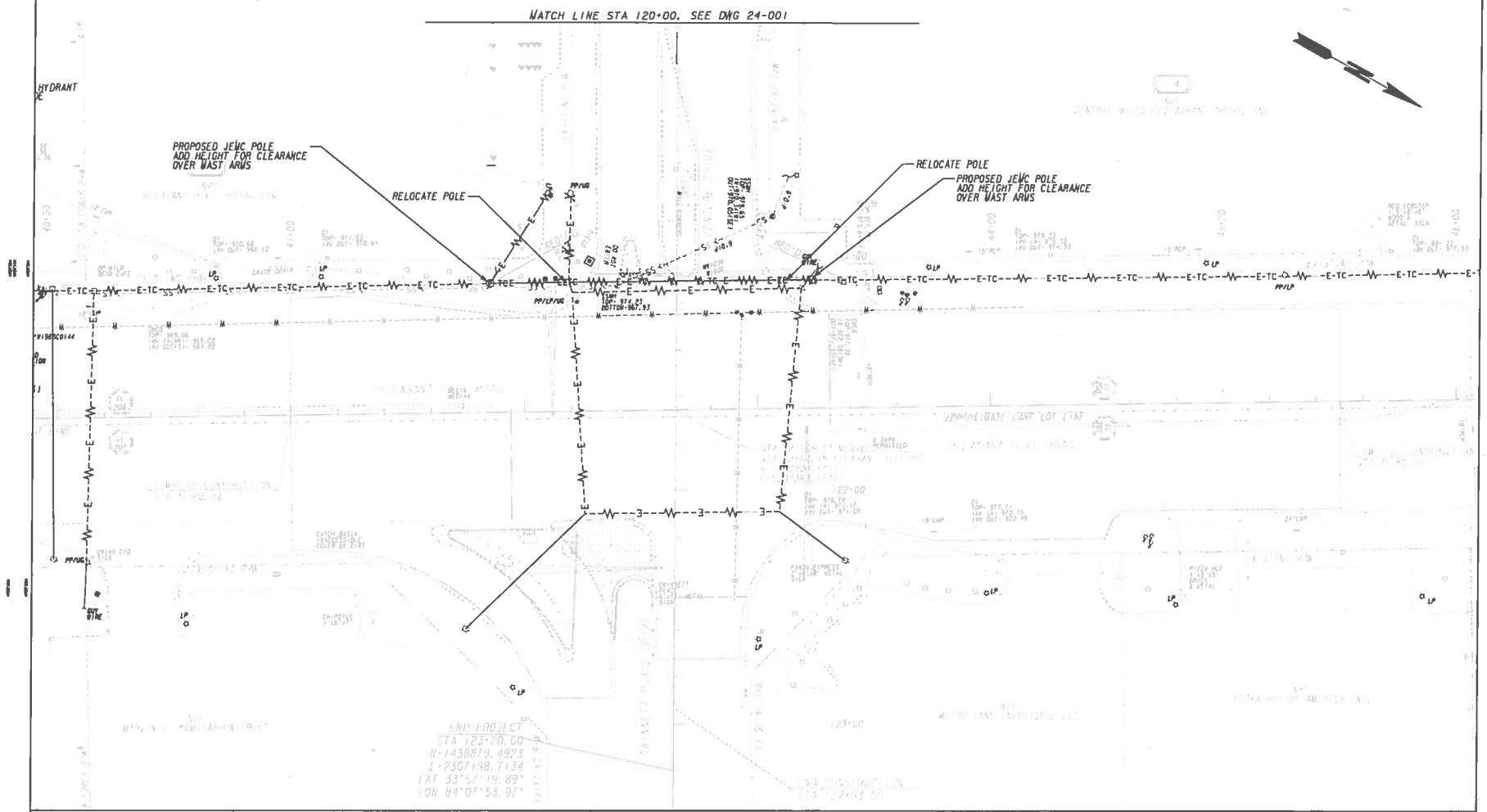
USER:rwood

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	M-0676 Phase 1A	18	42

MATCH LINE STA 120+00. SEE DWG 24-001



APPROVED BY GWINNETT COUNTY DEPARTMENT OF WATER RESOURCES DATE

GWINNETT PLACE COMMUNITY IMPROVEMENT DISTRICT

Stantec

SCALE IN FEET
0 20 40 80

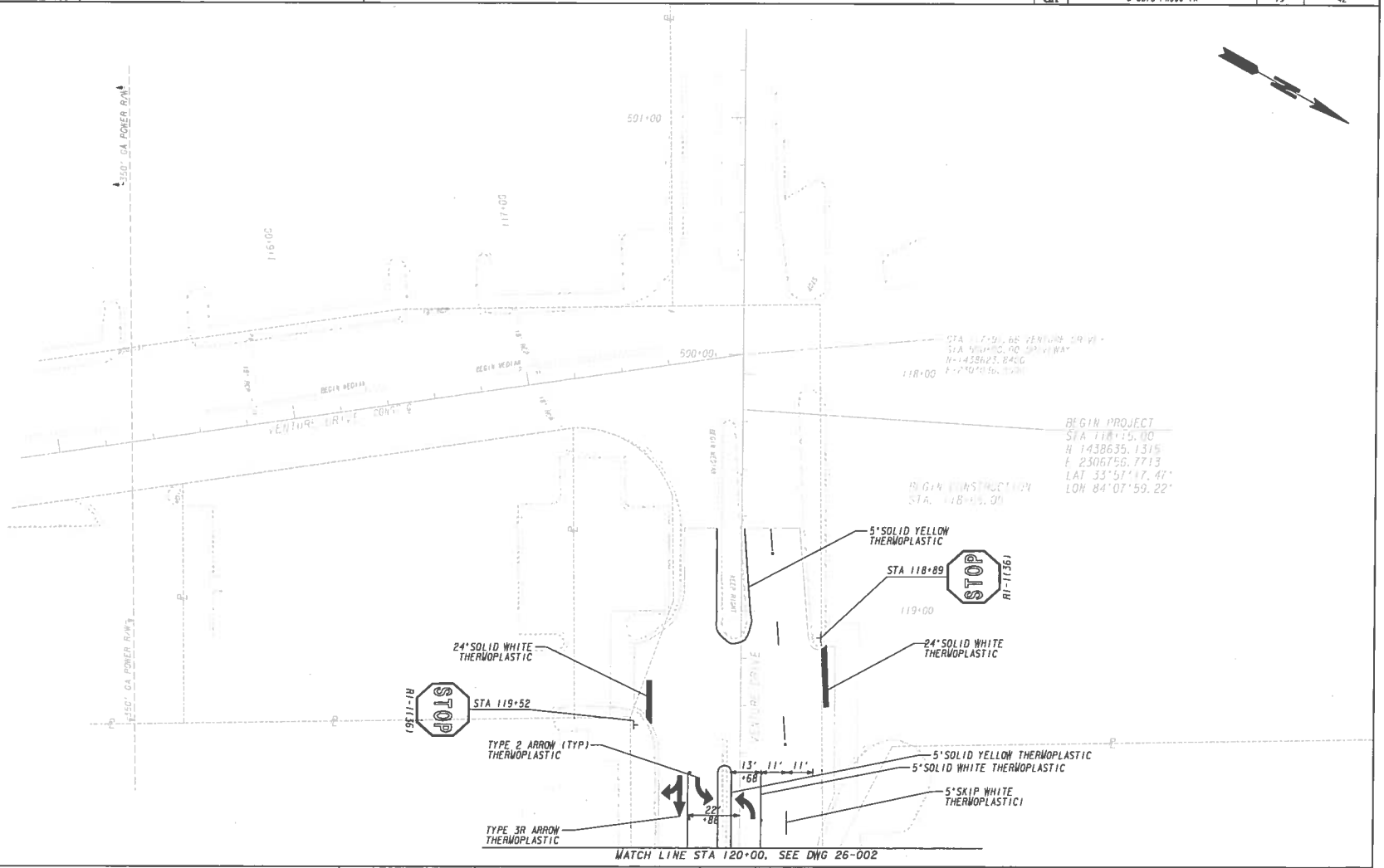
REVISION DATES		

GWINNETT COUNTY
DEPARTMENT OF TRANSPORTATION
OFFICE:
UTILITY PLANS
PLEASANT HILL ROAD AND VENTURE DRIVE IMPROVEMENTS
M-0676 Phase 1A 08/21/2014

DRAWING No. 24-002

5/1/2007 EPLS

08/21/2014 USER:wwood	3:16:04 PM	dPRF6	V:\1782\active\178202026\Roadway\DGN\Phase 1\Phase 1A\156354TSM01.DGN	STATE GA	PROJECT NUMBER W-0676 Phase 1A	SHEET NO. 19	TOTAL SHEETS 42



GWINNETT PLACE COMMUNITY IMPROVEMENT DISTRICT

Stantec

SCALE IN FEET
0 20 40 80

REVISION DATES		

GWINNETT COUNTY
DEPARTMENT OF TRANSPORTATION
OFFICE:
SIGNING AND MARKING PLANS

PLEASANT HILL ROAD AND VENTURE DRIVE IMPROVEMENTS
W-0676 Phase 1A
08/21/2014

DRAWING No. 26-001

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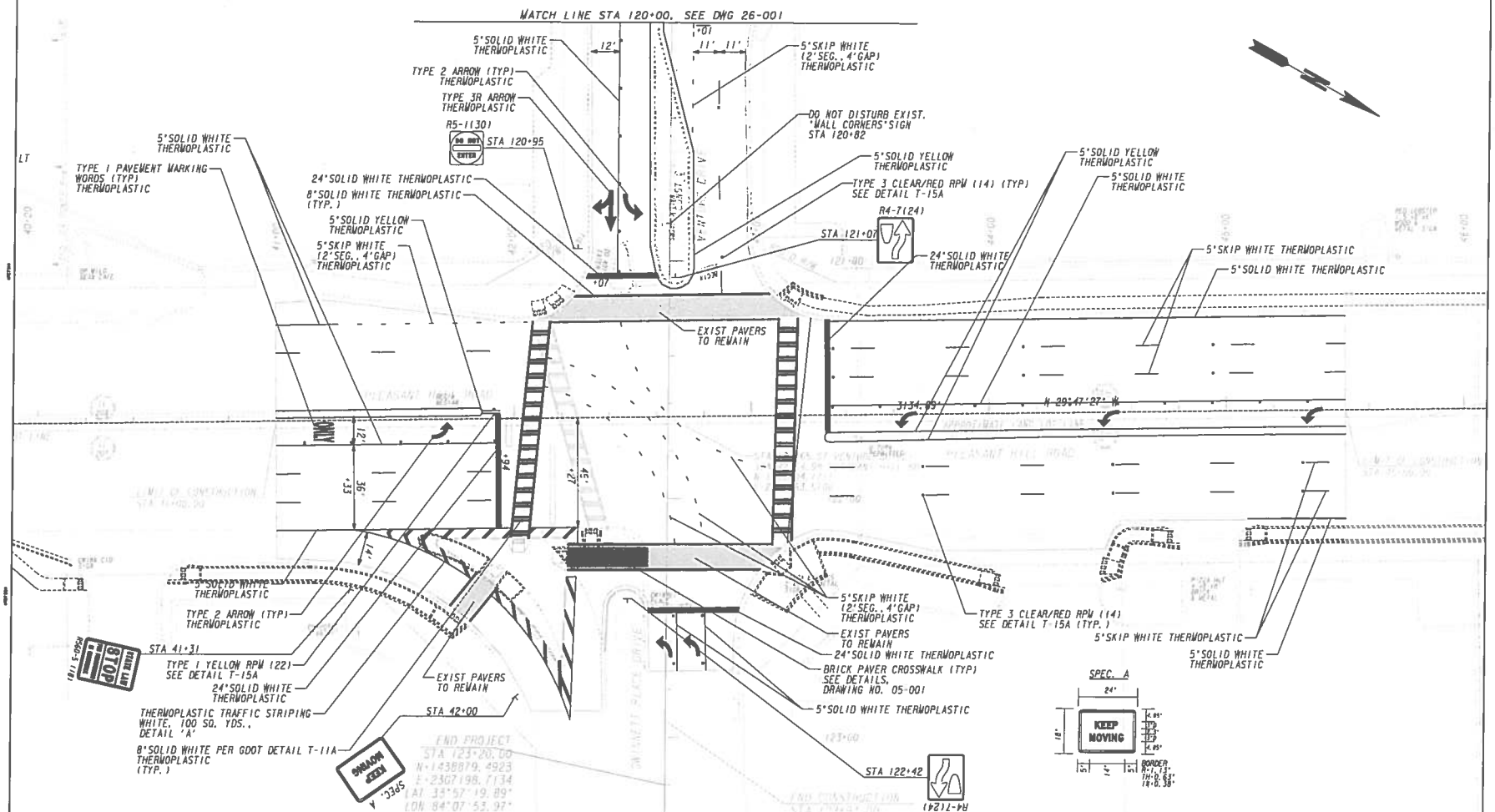
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	M-0676 Phase 1A	20	42



REVISION DATES		

GWINNETT COUNTY DEPARTMENT OF TRANSPORTATION

OFFICE:

SIGNING AND MARKING PLANS

PLEASANT HILL ROAD AND VENTURE DRIVE IMPROVEMENTS
M-0676 Phase 1A 08/21/2014

DRAWING No. 26-002

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.

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.

3. MATERIAL CERTIFICATION IS REQUIRED PRIOR TO BEGINNING ANY SIGNAL INSTALLATION WORK. THE CONTRACTOR SHALL FOLLOW PROCEDURES OUTLINED IN THE SPECIAL PROVISIONS.

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.

5. FOR STRAIN POLE FOUNDATION SIZE AND REINFORCEMENT, SEE STRAIN POLE AND MAST ARM POLE FOUNDATION SHEET.

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.

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.

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.

14. CONDUIT UNDER DRIVEWAYS AND ROADWAYS SHALL BE TYPE 3 (SDR 11 HDPE), 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.

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.

16. SIGNAL HEADS ON MAST ARMS SHALL HAVE BACK PLATES AND BE RIGID MOUNTED.

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.

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.

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.

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.

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.

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).

23. CONTROLLER SHALL INCLUDE 5-VOLT 2 MB DATA KEY AND SHALL HAVE THE CURRENT GDOT LICENSE INTERSECTION SOFTWARE INSTALLED AND OPERATIONAL.

24. HOT DIP GALVANIZED WELDLESS RINGS SHALL BE USED FOR SPAN WIRE JUNCTIONS. GUY ANCHORS SHALL BE GALVANIZED.

25. GWINNETT COUNTY D.O.T. WILL BE RESPONSIBLE FOR PROGRAMMING OF SIGNAL TIMING AND "TURN-ON" OF ALL NEW SIGNALS.

26. GWINNETT COUNTY DOT IS NOT ON THE ONE-CALL SYSTEM. CALL (770) 822-7474 WHEN LOCATING UTILITIES FOR CONSTRUCTION.

GWINNETT PLACE COMMUNITY IMPROVEMENT DISTRICT

Stantec

REVISION DATES		

GWINNETT COUNTY
DEPARTMENT OF TRANSPORTATION
OFFICE:
SIGNAL PLANS
GENERAL NOTES
PLEASANT HILL ROAD AND
VENTURE DRIVE IMPROVEMENTS
W-0676 Phase 1A 08/21/2014
DRAWING No. 27-001

SUMMARY OF QUANTITIES - SIGNAL

TRAFFIC CONTROL	
TOTAL	LUMP SUM

DESCRIPTION	UNIT	TOTAL
TRAFFIC SIGNAL INSTALLATION NO.1	LS	LS

DESCRIPTION	UNIT	TOTAL
STRAIN POLE, TP IV ,WITH 55' MASTARM	EA	2
STRAIN POLE, TP IV ,WITH 65' MASTARM	EA	2

DESCRIPTION	UNIT	TOTAL
CONDUIT, NONMETAL, TYPE 3, 2 IN	LF	2200

DESCRIPTION	UNIT	TOTAL
DIRECTIONAL BORE, 3"	LF	255
DIRECTIONAL BORE, 7"	LF	385

DESCRIPTION	UNIT	TOTAL
INTERNALLY ILLUMINATED STREET SIGN	EA	6
INTERNALLY ILLUMINATED STREET NAME SIGN CONTROL ASSEMBLY	EA	6

SUMMARY OF NETWORK ITEMS

DESCRIPTION	UNIT	TOTAL
FIBER OPTIC SPLICE FUSION	EA	6

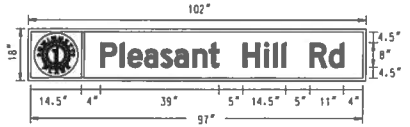
DESCRIPTION	UNIT	TOTAL
FIELD SWITCH, TYPE C	EA	1

DESCRIPTION	UNIT	TOTAL
FIBER OPTIC CLOSURE, FOC (WALL-MOUNTED), 6 FIBER	EA	1

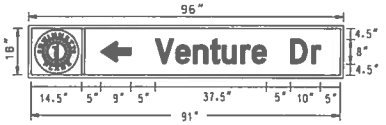
DESCRIPTION	UNIT	TOTAL
FIBER OPTIC CLOSURE, AERIAL (SEALED), 48 FIBER	EA	1

DESCRIPTION	UNIT	TOTAL
OUTSIDE PLANT FIBER OPTIC CABLE, DROP, SINGLE MODE, 6 FIBER	LF	170

DETAILS OF INTERNALLY ILLUMINATED OVERHEAD STREET NAME SIGNS - RIGID MOUNTED



D-SPEC. #.1
2 EA. REQ'D



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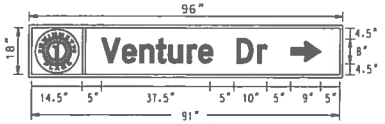

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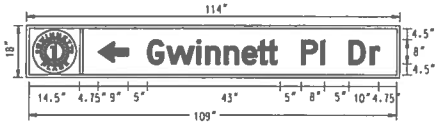

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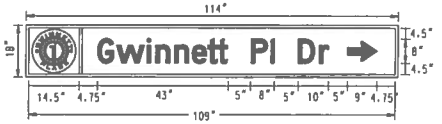

D-SPEC. #.5
1 EA. REQ'D

GENERAL NOTES:

1 EACH SIGN SHALL CONTAIN A MINIMUM OF TWO (2) HANGERS OR BRACKETS.

2 SIGN LEGEND SHALL BE 8-1/4" UPPER CASE & LOWER CASE SERIES 'D' LETTERS. ALL ARROWS SHALL BE 6" TALL & 9" LONG

REVISION DATES		

GWINNETT COUNTY
DEPARTMENT OF TRANSPORTATION
OFFICE:

SIGNAL PLANS
SUMMARY OF QUANTITIES
PLEASANT HILL ROAD AND
VENTURE DRIVE IMPROVEMENTS
M-0676 Phase 1A 08/21/2014

DRAWING No. 27-002

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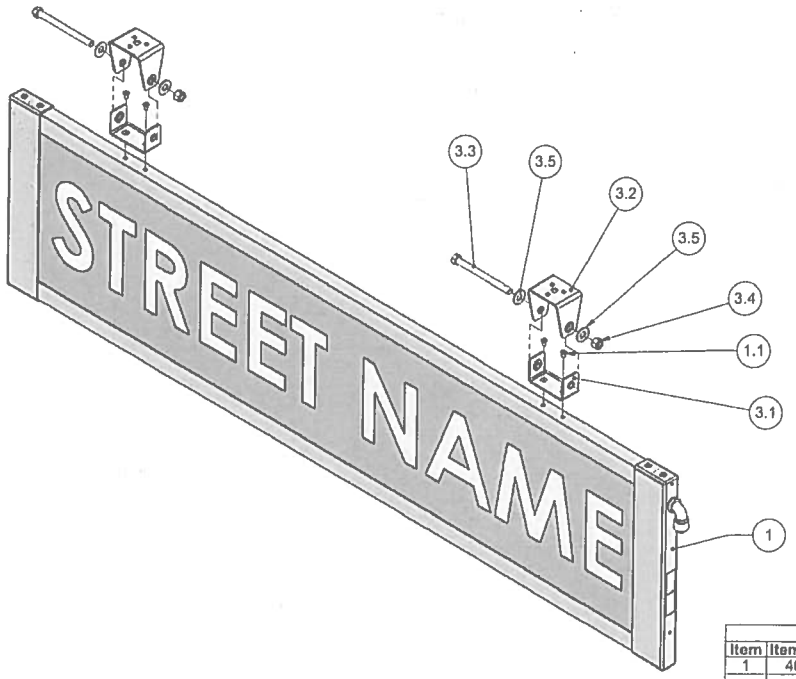
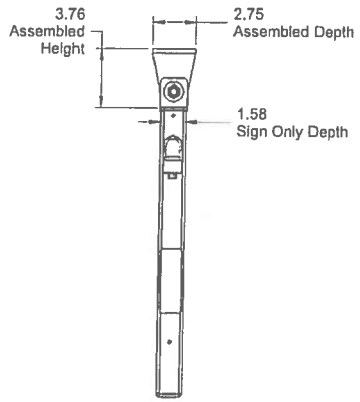
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	M-0676 Phase 1A	23	42

REVISION			
REV.	DESCRIPTION	DATE	APPROVED
X2	INITIAL RELEASE	6/12/2006	AJL
A	RELEASE TO PRODUCTION	7/5/2006	AJL





SIDE VIEW
ASSEMBLED

Bill of Materials

Item	Item Code	Description	QTY.
1	46657	R409A ROAD SIGN	1
1.1	43865	HARDWARE (NON-CURRENT CARRYING), MACHINE SCREW, #1/4-20 X 1/2", SS, FLAT HEAD, HEX SOCKET	14
3	40780	R409 Tri-stud adapter bracket assembly	1
3.1	41384	R409 TRI-STUD ADAPTER BOTTOM ASSY	2
3.2	41383	R409 TRI-STUD ADAPTER TOP ASSY	2
3.3	40561	BOLT, HEX, 1/2-13 X 6", SS	2
3.4	40560	NUT, NYLON INSERT, 1/2-13, SS	2
3.5	37198	FLAT WASHER, 1/2, SS	4

ASSEMBLY

1. Remove 4 frame screws (1.1) from sign assembly (1) as shown above.
2. Install underhanging bottom assemblies (3.1) using frame screws (1.1).
   - torque: 80 - 100 in.-lb.
   - threadlocker: red, P/N 47299
3. Insert underhanging top assemblies (3.2) into bottom assemblies (3.1). Secure with bolts (3.1), washers (3.5), and locknuts (3.4) in the order shown above.
   - torque: tighten until locknut is completely on bolt threads. Note that locknuts need to be removed by installer.
   - threadlocker: not required

UNLESS OTHERWISE SPECIFIED
DO NOT SCALE DRAWING
INTERPRET DIMENSIONS AND TOLERANCES PER ASME Y14.100-2000
TOLERANCES APPLY AS SHOWN BELOW
DECIMALS SURF FINISH ANGLES
.X ± .1 ±1°
.XX ± .01
.XXX ± .005
.XXXX ± .0025
INCHES
THIRD ANGLE PROJECTION

PDM MAINTAINED DATA
CHANGES SHALL BE INCORPORATED ELECTRONICALLY BY THE DESIGN AUTHORITY

PROPRIETARY

DESIGNED BY Aaron Lockwood DATE 07-Mar-2006
DRAWN BY Aaron Lockwood DATE 12-Jun-2006
APPROVED DATE

Carmanah
Carmanah Technologies Inc.
Building 4-203 Harbour Road
Victoria, BC Canada V9A 3S2
Tel [250] 380-0052
Fax [250] 380-0062

TITLE
R409A ROAD SIGN, UNDERHANGING ASSEMBLY

SIZE B DRAWING NO 46657_06 REVISION A
SCALE 1:7.5 CAD REFERENCE 46657.SLDASM SHEET 1 OF 1

GWINNETT PLACE COMMUNITY IMPROVEMENT DISTRICT
Stantec

REVISION DATES

GWINNETT COUNTY
DEPARTMENT OF TRANSPORTATION
OFFICE:
SIGNAL PLANS
LEGEND
PLEASANT HILL ROAD AND VENTURE DRIVE IMPROVEMENTS
M-0676 Phase 1A 08/21/2014
DRAWING No. 27-003

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STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	M-0676 Phase 1A	24	42

EXISTING UTILITIES

- EXISTING GUY WIRE
- EX.OH ELECTRIC
- EX POWER POLE
- EX TRANSFORMER
- EX.UG ELECTRIC
- EX GAS LINE
- EX GAS METER
- EX GAS VALVE
- EX WATER LINE
- EX FIRE HYDRANT
- EX WATER METER
- EX WATER VALVE
- EX SANITARY SEWER
- EX SS MANHOLE
- EX TELEPHONE MH
- EX OH TELEPHONE
- EX TELEPHONE POLE
- EX UG TELEPHONE
- EX OH CABLE TV
- EX UG CABLE TV

EXISTING SIGNAL

- CONTROLLER CABINET
- STRAIN POLE
- TIMBER POLE
- DOWN GUY
- MAST ARM
- STREET LIGHT
- 3 SECTION HEAD
- 5 SECTION HEAD
- OVERHEAD SIGN
- PEDESTAL POLE
- PED SIGNAL HEAD
- CURB CUT RAMP
- PULLBOX
- 6x6 PULSE LOOP
- 6x18 CALL LOOP
- 6x40 PRESENCE LOOP (DIPOLE)
- 6x40 PRESENCE LOOP (QUADRUPOLE)
- CONDUIT
- RAILROAD CONTROLLER
- SIGN POST

PROPOSED SIGNAL

- CONTROLLER CABINET W/ BATTERY BACKUP
- STRAIN POLE
- TIMBER POLE
- DOWN GUY
- MAST ARM
- STREET LIGHT
- 3 SECTION HEAD
- 3 SECTION HEAD W/ BACKPLATE
- 5 SECTION HEAD
- 5 SECTION HEAD W/ BACKPLATE
- OVERHEAD SIGN
- PEDESTAL POLE
- PED SIGNAL HEAD
- CURB CUT RAMP - (See ADA Detail)
- PULLBOX, TYPE 1
- PULLBOX, TYPE 2
- PULLBOX, TYPE 3
- PULLBOX, TYPE 6
- PULLBOX, TYPE 7
- 6x6 PULSE LOOP
- 6x40 PRESENCE LOOP (QUADRUPOLE)
- CONDUIT, NONMETAL
- CONDUIT, DIRECTIONAL BORE
- SIGN POST

PROPERTY AND EXISTING R/W LINE —— – PL –	BEGIN LIMIT OF ACCESS.....BLA
REQUIRED R/W LINE ——	END LIMIT OF ACCESS.....ELA
CONSTRUCTION LIMITS ---C---F---	LIMIT OF ACCESS —ooo—ooo—
EASEMENT FOR CONSTRUCTION & MAINTANENCE OF SLOPES	REQ'D R/W AND LIMIT OF ACCESS —||—||—
EASEMENT FOR CONSTR OF SLOPES	
EASEMENT FOR CONSTR OF DRIVES	

GWINNETT PLACE COMMUNITY IMPROVEMENT DISTRICT

Stantec

REVISION DATES		

GWINNETT COUNTY
DEPARTMENT OF TRANSPORTATION
OFFICE:
SIGNAL PLANS
LEGEND
PLEASANT HILL ROAD AND VENTURE DRIVE IMPROVEMENTS
M-0676 Phase 1A 08/21/2014
DRAWING No. 27-004

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STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
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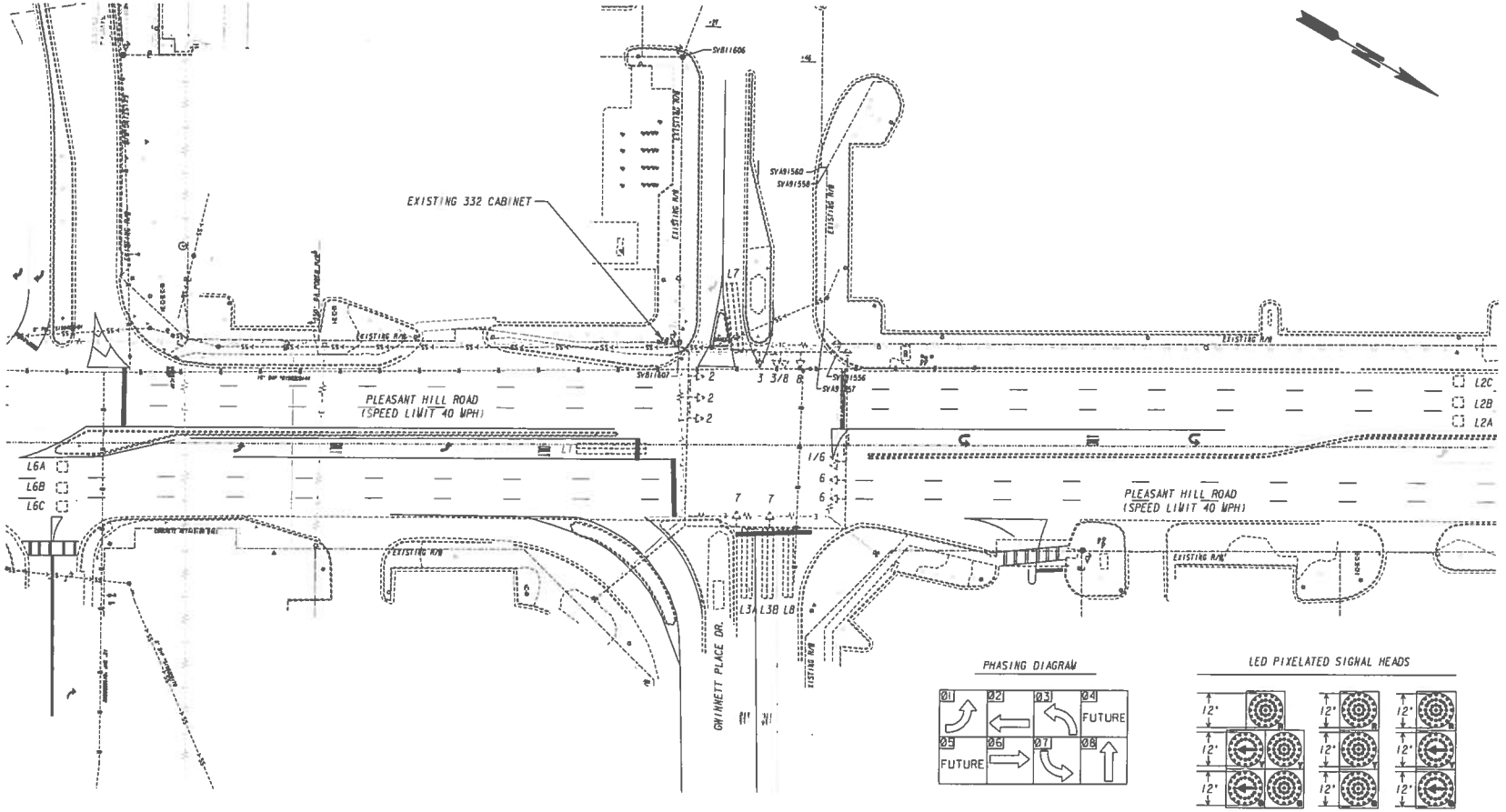

PHASING DIAGRAM

LED PIXELATED SIGNAL HEADS

SCALE IN FEET
0 30 60 120

REVISION DATES		

GWINNETT COUNTY
DEPARTMENT OF TRANSPORTATION
OFFICE:

SIGNAL PLANS

EXISTING CONDITIONS
PLEASANT HILL ROAD AND
VENTURE DRIVE IMPROVEMENTS
M-0676 Phase 1A

08/21/2014

DRAWING No. 27-005

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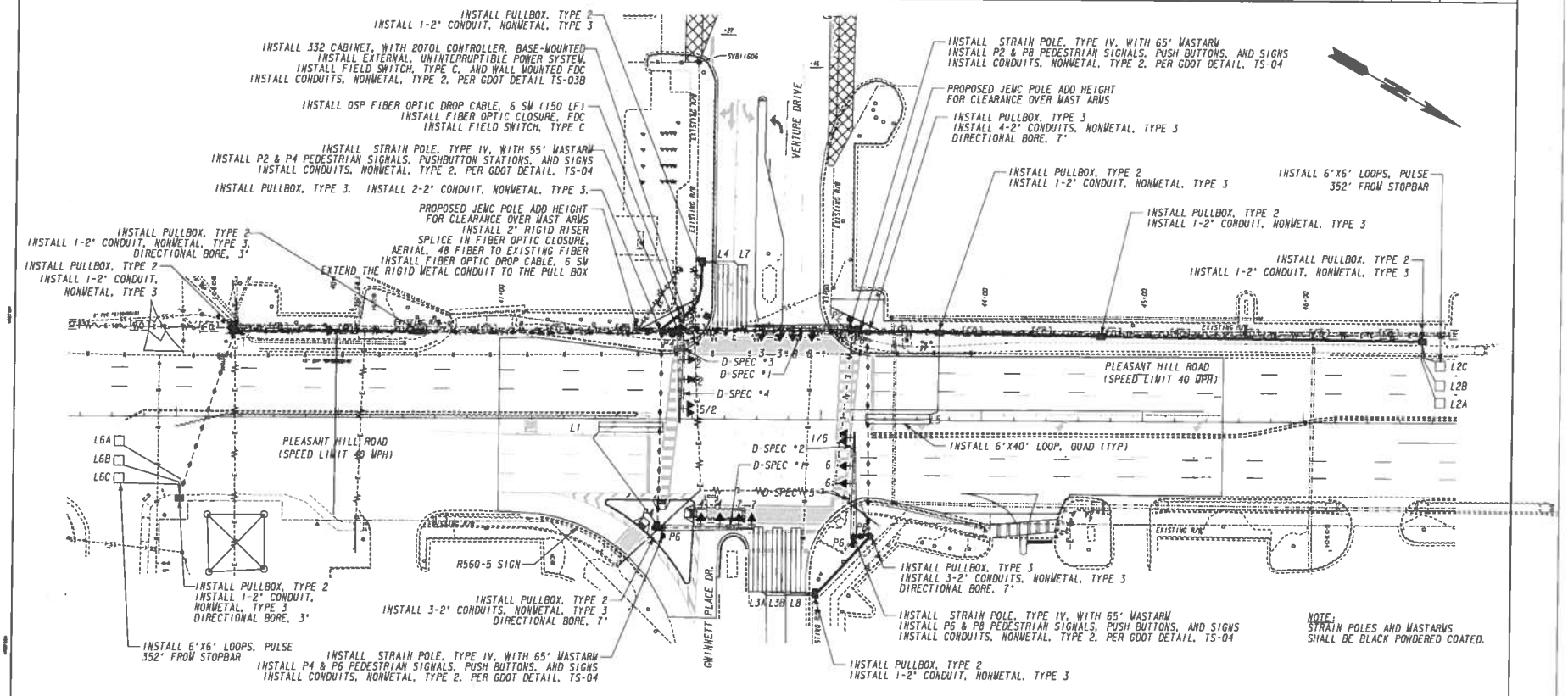
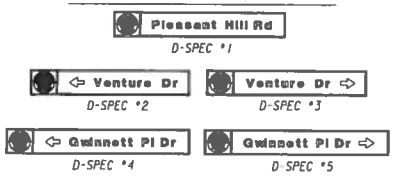
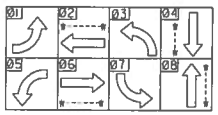
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	M-0676 Phase 1A	26	42



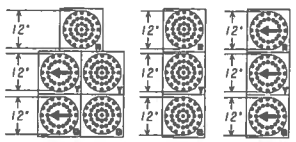
INTERNALLY ILLUMINATED D-SPEC SIGNS



PHASING DIAGRAM

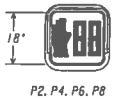


LED SIGNAL HEADS



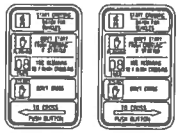
1/6, 5/2 | 2, 4, 6, 8 | 3, 7

LED PEDESTRIAN SIGNAL HEADS



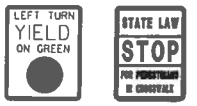
P2, P4, P6, P8

PEDESTRIAN SIGNS



R10-3E(L) 9" X 15" | R10-3E(R) 9" X 15"

SIGNS



R10-12 24" X 30" | R560-5 24" X 30"

GWINNETT PLACE COMMUNITY IMPROVEMENT DISTRICT

Stantec

SCALE IN FEET
0 30 60 120

REVISION DATES		

GWINNETT COUNTY
DEPARTMENT OF TRANSPORTATION
OFFICE:

SIGNAL PLANS

CONSTRUCTION PLANS
PLEASANT HILL ROAD AND
VENTURE DRIVE IMPROVEMENTS
M-0676 Phase 1A 08/21/2014

DRAWING No. 27-006

GDOT DEFAULT 332 CABINET PIN OUTS

UPPER INPUT FILE (1)	SLOT		1	2	3	4	5	6	7	8	9	10	11	12	13	14
	TYPE		DET	DET	DET	DET	DET	DET	DET	DET	DET			DC	DC	DC
	CHANNEL 1	C1 PIN	56	39	63	47	58	41	65	49	60		80	67	68	81
		FUNCTION	L1	L2A	L2C		L3A	L4					ADVANCE	2 PED	6 PED	FLASH
		FIELD TERM	TB2 1,2	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
	CHANNEL 2	C1 PIN	56	43	76	47	58	45	78	49	62		53	69	70	82
		FUNCTION		L2B			L3B						ENABLE	4 PED	8 PED	STOP TIME
		FIELD 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			TB8 5,6	TB8 8,9	N/C
LOWER INPUT FILE (2)	SLOT		1	2	3	4	5	6	7	8	9	10	11	12	13	14
	TYPE		DET	DET	DET	DET	DET	DET	DET	DET	DET			TBA	TBA	DC
	CHANNEL 1	C1 PIN	55	40	64	48	57	42	66	50	59		54	71	72	51
		FUNCTION	L5	L6A	L6C		L7	L8								
		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 10,12
	CHANNEL 2	C1 PIN	55	44	77	48	57	46	79	50	61		75	73	74	52
		FUNCTION		L6B									SPARE 3			
		FIELD 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

FOR INFORMATION ONLY

CONTROLLER CABINET ASSEMBLIES	UNIT	QUANTITY
A. CONTROLLER UNIT, MODEL 2070L	EA	1
D. CABINET ASSEMBLY, MODEL 332A	EA	1
E. SWITCH PACK	EA	12
F. DC ISOLATOR	EA	3
G. LOOP DETECTOR, 2 CHANNEL	EA	10
J. 2010 CONFLICT MONITOR, EXTENDED FEATURES	EA	1
K. UNINTERRUPTIBLE POWER SYSTEM		
- EXTERNAL MOUNTED, CABINET (per GDOT specs)	EA	1
332A PREFABRICATED CONTROLLER CABINET BASE w/UPS EXTENSION	EA	1
LOOP/PED LEAD-IN WIRE (TWISTED/1000 FT)		
A. 3 PAIR, 14 AWG	REEL	2
SIGNAL CABLE (14 AWG)		
B. 7 CONDUCTOR, PER 1000 FT.	REEL	2
LOOP DETECTOR WIRE (14 AWG, STRANDED/1000 FT)	REEL	5
ONE-WAY, 3-SECTION, 12" SIGNAL HEAD LED's, PLASTIC	EA	11
ONE-WAY, 5-SECTION, 12" SIGNAL HEAD LED's SIGNAL HEAD (CLUSTER), PLASTIC	EA	2
ONE-WAY, 1-SECTION, 18" LED COUNTDOWN PEDESTRIAN SIGNAL HEAD, FULL HAND/MAN OVERLAP		
I. 9" HIGH, Numbers	EA	8
PEDESTRIAN PUSHBUTTON STATION ASSEMBLY		
B. 9" x 15"	EA	8
PEDESTRIAN PUSHBUTTONS AND SIGNS:		
B. 9" x 15", R10-3e, (L)eft or (R)ight, Countdown	EA	8
BACK PLATE FOR ONE-WAY, 3-SECTION, 12" SIGNAL HEAD	EA	11
BACK PLATE FOR ONE-WAY, 5-SECTION, CLUSTERED 12" SIGNAL HEAD	EA	2
HARDWARE FOR MASTARM MOUNTING	EA	13
HARDWARE FOR CLAMSHELL MOUNTING OF PEDESTRIAN SIGNAL	EA	8
PULL BOX, PB-2	EA	10
PULL BOX, PB-3	EA	2
LOOP SAW CUT	LF	1745
CONDUIT, NONMETAL, TP 1, 1"	LF	210
CONDUIT, NONMETAL, TP 2, 2"	LF	270
CONDUIT, RIGID, 2"	LF	85
R10-12, LEFT TURN YIELD ON GREEN SIGN	EA	2
MISCELLANEOUS MATERIALS NEEDED TO COMPLETE INSTALLATION	LUMP	LUMP

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W-0676 Phase 1A 08/21/2014
DRAWING NO. 27-007