

April 26, 2021

RE: Quote to Provide Mast Arms/Poles & Related Hardware Intersection of SR 44/Lake Oconee Parkway & Scott Road

The Putnam County Board of Commissioners is seeking a quote (lump sum) for the referenced materials. This quote is for the complete cost of materials; including shipping cost, to the address on the attached "Request for Quote" form. The materials must be in accordance with the Georgia Department of Transportation (GDOT) specifications. The State department of Transportation Bridge Design Division will also require submittals for the mast arm, pole and all associated hardware as identified in the attached example submittal. For structural load purposes, you will also note that in addition to the signal heads, an internally illuminated sign will be placed on the mast arm. Attached is the signal plan sheet providing details of the project.

<u>The deadline to submit a quote will be 5:00 PM; May 17, 2021</u>. The quote shall be emailed to the Mr. Paul Van Haute; County Manager and Lynn Butterworth, County Clerk; at the following email addresses.

Paul Van Haute; County Manager	Lynn Butterworth
pvanhaute@putnamcountyga.us	lbutterworth@putnamcountyga.us

All questions regarding this "Request for a Quote" shall be to the following:

Larry Kaiser, P.E. <u>kaiser@co-infra-services.com</u> 404-909-5619

Any addendum issued for this project will be placed on the Putnam County web site; <u>http://www.putnamcountyga.us</u>, by no later than 5:00 PM; May 13, 2021.

The county selection process will be based on the following:

- (a) Cost of materials (Lump Sum Bid) bid shall include delivery cost
- (b) Number of calendar days for material submittal (s) to GDOT upon notification of selection by the county
- (c) Number of calendar days for material delivery to the county after the county issues a NTP to the vendor

The selected vendor will be required to provide all submittals to GDOT before the County provides payment for the materials. The County will issue payment to the selected bidder within one (1) week of receiving approval from GDOT on the submittals.

Thank you for your interest in this project.

Larry Kaiser, P.E. Collaborative Infrastructure Services, Inc.

- Cc: Paul Van Haute; County Manager Putnam County
- Attachments: Bid Schedule of Items for the Quote Signal Plans Example of a Submittal to GDOT

I. <u>BID SCHEDULE OF ITEMS</u>

GDOT PAY ITEM	ITEM DESCRIPTION	UNITS	ΩΤΥ
639-3004	STEEL STRAIN POLE, TYPE IV (WI 35' MAST ARM) – BLACK POWDER COATED	EA	1
639-3004	STEEL STRAIN POLE, TYPE IV (WI 55' MAST ARM) – BLACK POWER COATED	EA	1
639-3004	STEEL STRAIN POLE, TYPE IV (WI 60' MAST ARM) – BLACK POWDER COATED	EA	1
NA	Misc. materials not included in the above (please specify) below ¹	LS	LS
	TOTAL LUMP SUM BID		\$

Note: 1: _____

Print Total LUMP SUM Bid Price: (print) _____

II. NUMBER OF CALENDAR DAYS FOR MATERIAL SUBMITTAL (S) TO GDOT UPON NOTIFICATION OF VENDOR SELECTION BY THE COUNTY: _____

III. NUMBER OF CALENDAR DATES FOR DELIVERY OF THE MATERIALS TO THE COUNTY AFTER COUNTY ISSUANCE OF THE NOTICE TO PROCEED (NTP) FOR FABRICATION: _____

In compliance with the attached Specifications, the undersigned offers and agrees that if this Lump Sum Bid is accepted (which includes delivery cost) by the Putnam County Board of Commissioners, materials will be delivered within the calendar days included in the bid submittal.

COMPANY
ADDRESS
AUTHORIZED SIGNATURE
PRINT / TYPE NAME
TITLE

The selected bidder will deliver the materials to the following address:

Putnam County Public Works Department 115 West Forrest Street Eatonton, GA 31024

		TRAFFIC SIGNAL	GENERAL NOTES
2. 3. 4. 5. 6. 7. 8.	INCLUDING ALL SUPPLEMENTAL SPECIFICATIONS (SPECIF TRAFFIC CONTROL DEVICES, THE NATIONAL ELECTRIC CO AND DETAILS. SIGNAL HEADS SHALL BE ERECTED TO PROVIDE AT LEAST OF SIGNAL HEADS TO TOP OF ROAD SURFACE AND A MINI SIGNAL FACES. 3-PAIR 18 AWG SHIELDED STRANDED CABLE WILL BE USE DETECTORS SHALL HAVE SEPARATE LEAD-INS TO THE CON BE ALLOWED. THE CONTRACTOR SHALL LOCATE UNDERGROUND UTILITIES ORDERING. AT THE DISCRETION OF THE ENGINEER, MINO NEW SIGNAL POLES, ARE ACCEPTABLE TO AVOID UNDERGR PAVEMENT SHALL BE MAINTAINED. PLACEMENT OF THE SI THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL NEW GU SPAN WIRE OR INTERCONNECT CABLE TO THE POLES UNL MATERIAL CERTIFICATION AND APPROVAL BY GDOT TRAFF REQUIRED PRIOR TO ORDERING ANY SIGNAL EQUIPMENT OF AND MATERIALS THAT ARE ON THE DEPARTMENT'S QUALIF PROCEDURES OUTLINED IN THE LATEST EDITION OF THE SPECIFICATIONS FOR THE CONSTRUCTION OF TRANSPORTA (SPECIFICALLY SECTIONS 647 & 925). INSTALLATION IS TO BE CHECKED AND ACCEPTED BY THE ACCEPTANCE. NOTIFICATION OF REQUEST FOR INSPECTIO SIGNAL MANAGER AT "GEORGIA DEPARTMENT OF TRANSPORTA ATTENTION: DISTRICT SIGNAL MANAGER" A MINIMUM OF	D THE CURRENT EDITION OF THE FOLLOWING: GEORGIA ATIONS FOR THE CONSTRUCTION OF TRANSPORTATION SYSTEMS, TICALLY SECTIONS 647 & 925), THE MANUAL OF UNIFORM DDE AND GEORGIA DEPARTMENT OF TRANSPORTATION'S STANDARDS TIT FEET BUT NO MORE THAN 19 FEET CLEARANCE FROM BOTTOM MUM OF 8 FEET MEASURED HORIZONTALLY BETWEEN CENTERS OF ED FOR DETECTOR RUNS AS SHOWN ON THE DETAIL SHEET, VTROL CABINET. ONLY ONE (I) PHASE PER LEAD-IN CABLE WILL S IN VICINITY OF NEW TRAFFIC SIGNAL POLES PRIOR TO OR SHIFTS, (UP TO A MAXIMUM OF 5 FEET), IN LOCATION OF ROUND UTILITIES. MINIMUM CLEARANCES FROM EDGE OF IGNAL HEADS SHALL BE RETAINED AS SHOWN ON THE PLANS. MYS ON EXISTING UTILITY TIMBER POLES WHEN ATTACHING ESS OTHERWISE DIRECTED BY THE ENGINEER. FIC SIGNAL MANAGER AND/OR DEPARTMENT DESIGNEE IS OR BEGINNING ANY INSTALLATION WORK. USE ONLY EQUIPMENT FIED PRODUCTS LIST (QPL). THE CONTRACTOR SHALL FOLLOW GEORGIA DEPARTMENT OF TRANSPORTATION'S STANDARD ATION SYSTEMS, INCLUDING ALL SUPPLEMENTAL SPECIFICATIONS E DISTRICT TRAFFIC SIGNAL MANAGER PRIOR TO FINAL DN MUST BE SENT IN WRITING OR VIA E-MAIL TO THE DISTRICT RTATION, 643 HIGHWAY IS SOUTH TENNILLE, GEORGIA 31089, ONE WEEK PRIOR TO THE DATE OF INSPECTION. T, SEE STRAIN POLE AND MAST ARM POLE FOUNDATION SHEET. E ROUTE SYSTEM SHALL BE CAPABLE OF MONITORING OVER IP	 GENERAL NOTES 11. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING PER NEC AND GDOT SPECIFICATIONS. ANY EXISTING SIGNAL INSTALLATION WILL HAVE TO BE ADJUSTED. THE DISCRETION OF THE ENGINEER ARE ACCEPTABLE WITH UTILITY OWNERS TO MAKE UTILITY HEIGHT AD. THE SIGNAL SPAN SHALL BE 40 INCHES BELOW THE I BETWEEN OVERHEAD POWER UTILITIES AND SIGNAL ECONMUNICATIONS SERVICES FOR TRAFFIC SIGNALS. L A UTILITY TRANSFORMER IS REQUIRED FOR ALL FEL COMMUNICATIONS SERVICES FOR TRAFFIC SIGNALS. L A UTILITY TRANSFORMER IS REQUIRED FOR TRAFFIC CONTRACTOR TO INCLUDE AS PART OF THEIR BID PR. UTILITY REQUIRES PAYMENT FOR INSTALLATION. 13. THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL MOI INSTALLATION AND SUPPORT DEVICES, UNTIL THE NE A TEST PERIOD OF UNINTERRUPTED OPERTATION, FOI THE LETTER OF ACCEPTANCE FROM THE DISTRICT SIG UTILITY COST TO PUTNAM COUNTY BOARD OF COMMISS 14. PROPOSED ATTACHMENT HEIGHT LOCATIONS ARE PROV. ACTUAL ATTACHMENT HEIGHT LOCATIONS ARE PROV. ACTUAL ATTACHMENT HEIGHTS SHALL BE FIELD DETEN PROVIDE REQUIRED SIGNAL HEAD MOUNTING HEIGHTS 15. ALL PEDESTRIAN SIGNAL HARDWARE (PEDESTRIAN SIG BUTTON STATION ADAPTERS, PEDESTAL POLES AND BAS SIGNAL HARDWARE (SIGNAL HEADS, MOUNTING BRACKED IF ACQUIRED. THE METER AND THE DISCONNECT BOX WILL BLACK IN COLOR (SEE POWER SERVICE ASSEMBLY DEL LOCAL POWER COMPANY FOR POWER CONNECTION AND MAINT IT. THE METER BASE WILL BE SUPPLIED BY THE LOCAL I A MANUAL BY-PASS SWITCH. 18. THE DISCONNECT NEEDS TO BE 60 AMP NONFUSABLE O TYPE. CONTRACTOR IS TO PROVIDE LOCKS AND KEYS. 19. A COMPLETE SIGNAL TIMING PROGRAM IS TO BE DEVEN
10	BLDG. 24 ATLANTA, GEORGIA 30316. NETWORK ABILITIE FINAL ACCEPTANCE. D. ALL EXISTING STOP BARS, WORDS, ARROWS, AND CROSSW	ES DEMONSTRATION IS REQURED AT CENTRAL SITES PRIOR TO WALKS THAT ARE NOT REMOVED OR RELOCATED SHALL BE DS.	DEPARTMENT OF TRANSPORTATION, STATE OF GEORGIA 20. UPON THE ISSUANCE OF NOTICE TO PROCEED ANY EX- MAINTENANCE, OPERATIONS, AND RESPONSE TO TRAFF CONTRACTOR AND WILL END WHEN THE DEPARTMENT AC

Civil, Traffic, Transportation, Land Surveying, Landscape Architecture, and Land Planning 2470 Sandy Plains Road Marietta, Georgia 30066 tel: 770-321-3936 www.seengineering.com

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA			

NG ALL VERTICAL AND HORIZONTAL OVERHEAD UTILITY CLEARANCES NG OVERHEAD UTILITIES THAT ARE IN CONFLICT WITH THE TRAFFIC D. MINOR SHIFTS (UP TO 5 FT) IN NEW STRAIN POLE LOCATIONS AT LE TO AVOID OVERHEAD UTILITIES. CONTRACTORS SHALL COORDINATE ADJUSTMENTS WHENEVER NEEDED TO ACCOMMODATE SIGNAL SPAN WIRE. TE POWER LINE NEUTRAL. A IO' CLEAR ZONE SHALL BE MAINTAINED EQUIPMENT.

FEES ASSOCIATED WITH MODIFYING AND ESTABLISHING NEW POWER AND , DETECTION SYSTEMS, AND/OR CCTV CAMERAS ON THIS PROJECT. IF IC SIGNAL EQUIPMENT, IT IS THE RESPONSIBLITY OF THE PRICE, FOR THAT TRAFFIC SIGNAL INSTALLATION IF THE RESPECTIVE

MONTHLY POWER AND COMMUNICATION SERVICE TO THE TRAFFIC SIGNAL NEW TRAFFIC SIGNAL INSTALLATION HAS SATISFACTORILY COMPLETED FOR THIRTY (30) DAYS. UPON COMPLETION OF THE TEST PERIOD, AND SIGNAL ENGINEER, THE CONTRACTOR WILL COMPLETE A TRANSFER OF ISSIONERS.

OVIDED AS GENERAL GUIDELINES TO THE TRAFFIC SIGNAL INSTALLER. TERMINED BY INSTALLER PRIOR TO ORDERING SIGNAL POLES TO TS AND CLEARANCE FROM EXISTING UTILITIES.

SIGNAL HEADS, MOUNTING BRACKETS, PUSH BUTTON STATIONS, PUSH BASES, ETC) ARE TO BE BLACK. ALL SPAN WIRE/MAST ARM MOUNTED CKETS, GOOSENECKS, ETC) ARE TO BE BLACK.

THAT ALL TRAFFIC CONTROL DEVICES BE METERED. IF A METER IS WILL NEED TO BE INSTALLED ON A PEDESTAL MOUNTED STRUCTURE DETAIL). THE SIGNAL CONTRACTOR IS TO COORDINATE WITH THE D METERING REQUIREMENTS.

POWER COMPANY. IT WILL BE A 200 AMP COMMERCIAL TYPE WITH

E OUTDOOR TYPE. THE DISCONNECT WILL NEED TO BE A LOCKABLE (S.

EVELOPED AND INSTALLED IN THE SIGNAL CONTROLLER. SEE GEORGIA GIA SPECIAL PROVISION SECTION 687 - TRAFFIC SIGNAL TIMING.

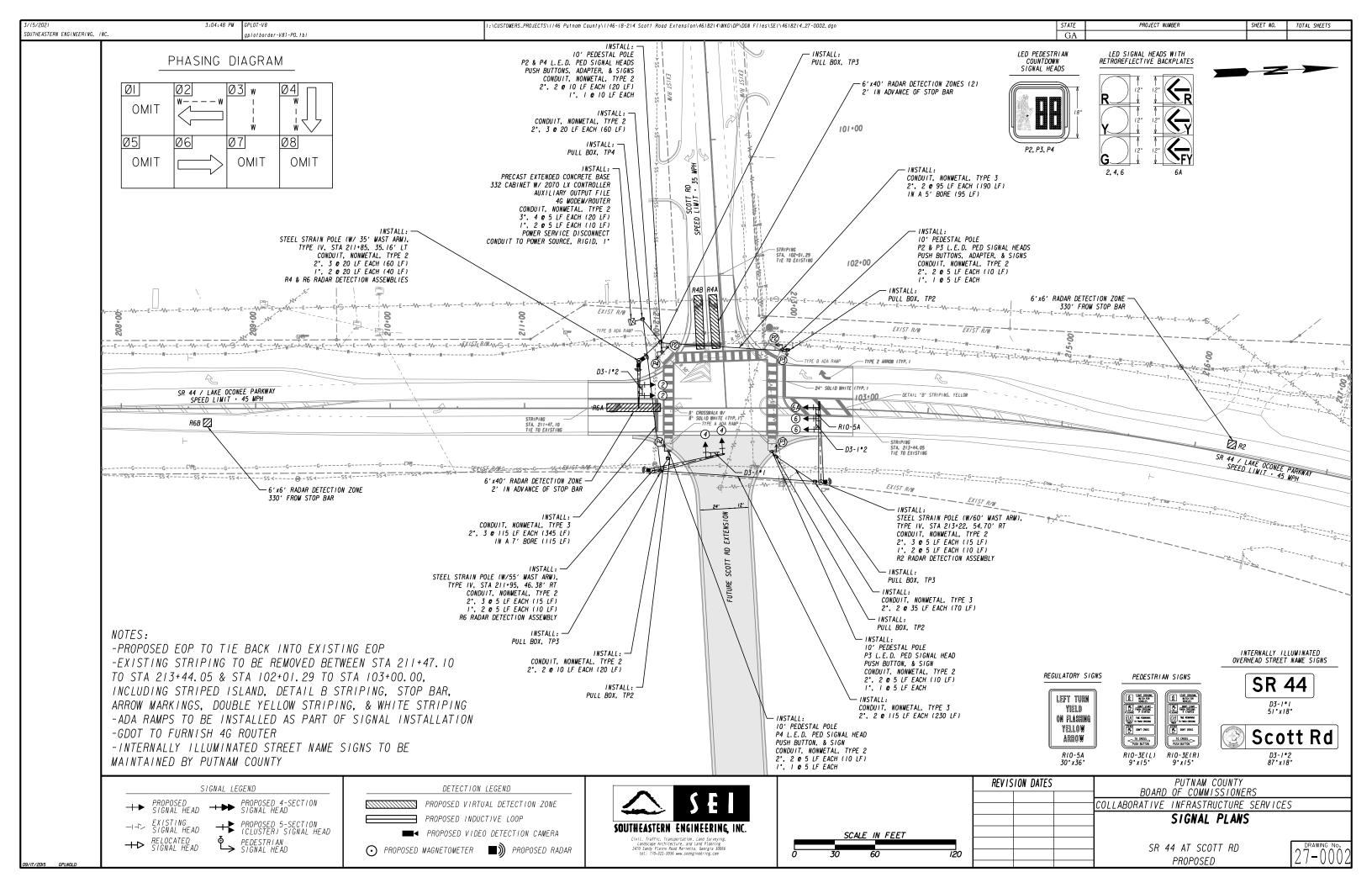
EXISTING TRAFFIC SIGNAL EQUIPMENT RESPONSIBILITIES FOR AFFIC SIGNAL MALFUNCTIONS BECOME THE RESPONSIBILITY OF THE ACCEPTS THE SIGNAL. PROVISIONS OF SUBSECTION 647.3.07,

ISION DATES	PUTNAM COUNTY
	BOARD OF COMMISSIONERS
	COLLABORATIVE INFRASTRUCTURE SERVICES
	SIGNAL PLANS
	SR 44 AT SCOTT RD
	SIGNAL NOTES $27-0000$

3/12/2021 SOUTHEASTERN ENGINEERING, 1		\CUSTOMERS_PROJECTS\II46 Putnam County\II46-18-214 Scott Road Extension\4618214\WKG\DP\DGN Files\SE1\4618214_27-0001.dgn
		EXISTING SIGNAL PROP
		⊠ CONTROLLER CABINET ⊠ CC ③ STRAIN POLE ④ ST ← TIMBER POLE ● TI ~ DOWN GUY ~ DO MAST ARM ● ● MAST STREET LIGHT ● ● ST +> 3 SECTION HEAD ● 3 +> 4 SECTION HEAD ● 4 +> 4 SECTION (CLUSTER/T-SHAPE) HEAD ● 4 ** PEDESTAL POLE ● ● 0 ** PULLBOX,(TYPE TO BE CALLED OUT) ↓ ∨ 0 ** PULLBOX,(TYPE TO BE CALLED OUT) ↓ 0 0 ** 6X40 PRESENCE LOOP ● 6A 0 0 ** SIGN POST CO
	PROPERTY AND EXISTING R/W LINE ₽- REQUIRED R/W LINE ₽- CONSTRUCTION LIMITS ₽- EASEMENT FOR CONSTR ZZZZ & MAINTENANCE OF SLOPES ZZZZ EASEMENT FOR CONSTR OF SLOPES ZZZZ EASEMENT FOR CONSTR OF DRIVES ZZZZ	BEGIN LIMIT OF ACCESSBLA END LIMIT OF ACCESS LIMIT OF ACCESS REQ'D R/W & LIMIT OF ACCESS HII III
09/17/2015 GPLNOLD		REVI SOUTHEASTERN ENGINEERING, INC. Civil, Traffic, Transportation, Land Surveying, Landscape Architecture, and Landing 247 discussed and Planning 247 discussed and 247 discussed and

-	state GA	P	ROJECT NUMBER		SHEET NO.	TOTAL SHEETS
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PEDESTA	AL P	POLE				
PED SIGI	VAL	HEAD				
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		BOARD OF COMMISSIONERS	
		COLLABORATIVE INFRASTRUCTURE SERVI	CES
		SIGNAL PLANS	
		SR 44 AT SCOTT RD	DRAWING No.
		SIGNAL LEGEND	27-0001



SOUTHEASTERN	ENGINEERING.	INC.

MATERIALS

CONTROL CABINET ASSEMBLIES

FLASHING YELLOW LEFT ARROW)

BLACK PEDESTAL POLE & SQUARE BASE

R10-5A, LEFT TURN ON FLASHING YELLOW SIGN

MISCELLANEOUS MATERIALS NEEDED TO COMPLETE INSTALLATIONS

CONDUIT, NONMETAL, TP2, 1"

CONDUIT, NONMETAL, TP2, 2"

CONDUIT, NONMETAL, TP2, 3"

CONDUIT, NONMETAL, TP3, 2"

PULLBOX, TP2

PULLBOX, TP3

D. DC ISOLATOR

332 PREFABRICATED CONTROLLER CABINET BASE

PC642-200 (OR EQUIVALENT), SURGE PROTECTOR

10:14:40 AM GPLOT-V8 aplotborder-V8i-PO.tbl

A. CONTROLLER UNIT, MODEL 2070LX (PREFERRED)

B. CABINET ASSEMBLY, MODEL 332 (EIGHT PHASE)

LOOP/PED LEAD-IN WIRE (SHIELDED, TWISTED/1000 FT); 3 PAIR, 18 AWG

BLACK HARDWARE FOR MAST ARM MOUNTING - ASTRO TYPE BRACKETS

E. 2010 SIGNAL MONITOR, TYPE B (ETHERNET) (PREFERRED) F. AUXILIARY OUTPUT FILE

BLACK HARDWARE FOR PEDESTAL POLE, TOP POST MOUNTING, ONE-WAY BRACKET ASSEMBLY BLACK HARDWARE FOR PEDESTAL POLE, TOP POST MOUNTING, TWO-WAY BRACKET ASSEMBLY

3-SECTION, 12" SIGNAL HEAD LED "INCANDESCENT LOOK" BLACK HOUSING WITH BLACK FRONT, PLASTIC

BACK PLATE FOR ONE-WAY, 3-SECTION, 12" SIGNAL HEAD, ABS PLASTIC, LOUVERED, BLACK WITH RETROREFLECTIVE STRIP

BLACK PEDESTRIAN PUSHBUTTON STATIONS, WITH BUTTONS AND SIGNS, 9"x15", R10-3E, (L)EFT OR (R)IGHT, COUNTDOWN

1-SECTION, 18" LED COUNTDOWN BLACK PEDESTRIAN SIGNAL HEAD, FULL, HAND/MAN OVERLAP, 9" HIGH NUMBERS & 12" SYMBOLS

3-SECTION, 12" SIGNAL HEAD LED "INCANDESCENT LOOK" BLACK HOUSING WITH BLACK FRONT, PLASTIC (RED LEFT ARROW, YELLOW LEFT ARROW, AND

BLACK PEDESTRIAN PUSHBUTTON STATIONS ADAPTERS (ONLY) 9*x15", DOUBLE PUSH BUTTON STATION ADAPTER FOR 4" DIA PEDESTRIAN POLE, ADJUSTABLE

C. SWITCH PACK (LOAD SWITCH)

SIGNAL CABLE (14 AWG); 7 CONDUCTOR, PER 1000 FT

UNIT

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	TYPE	DET	DET	DET	DET	DET	DET	DET	DET	DET	TBA	TBA	DC	DC	DC
	CARD		2-CH				2-CH						DC ISO	DC ISO	DC ISO
	C1 PIN	56	39	63	47	58	41	65	49	60		80	67	68	81
CHANNEL 1	FUNCTION		R2				R4A						02 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

Γ		C1 PIN	56	43	76	47	58	45	78	49	62	53	69	70	82
	CHANNEL 2	FUNCTION						R4B					04 PED	03 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

	TYPE	DET	DET	DET	DET	DET	DET	DET	DET	DET	TBA	TBA	DC	DC	DC
	CARD		2-CH												
	C1 PIN	55	40	64	48	57	42	66	50	59		54	71	72	51
CHANNEL 1	FUNCTION		R6A												
	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

		C1 PIN	55	44	77	48	57	46	79	50	61	75	73	74	52
CHANN	EL 2	FUNCTION		R6B											
		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

	ROADWAY PAY ITEMS		
PAY ITEM NO.	ITEM DESCRIPTION	UNIT	QUANTITY
150-1000	TRAFFIC CONTROL	LUMP	LUMP
205-0100	CONSTRUCTION ALLOWANCE	LUMP	LUMP
210-0100	GRADING COMPLETE	LUMP	LUMP
310-5060	GR AGGR BASE CRS, 6 INCH, INCL MATL	SY	30
402-3130	RECYCLED ASPH CONC 12.5 MM SUPERPAVE, GP 2 ONLY, INCL BITUM MATL & H LIME	TN	2
441-7011	CURB CUT WHEELCHAIR RAMP, TYPE A	EACH	2
441-7012	CURB CUT WHEELCHAIR RAMP, TYPE B	EACH	2
500-9999	CLASS B CONC, BASE OR PVMT WIDENING	CY	5
610-9001	REMOVE SIGN	EACH	2
653-0120	THERMOPLASTIC PVMT MARKING, ARROW, TP 2	EACH	4
653-1501	THERMOPLASTIC SOLID TRAF STRIPE, 5 IN, WHITE	LF	563
653-1502	THERMOPLASTIC SOLID TRAF STRIPE, 5 IN, YELLOW	LF	419
653-1704	THERMOPLASTIC SOLID TRAF STRIPE, 24 IN, WHITE	LF	80
653-1804	THERMOPLASTIC SOLID TRAF STRIPE, 8 IN, WHITE	LF	743
653-6006	THERMOPLASTIC TRAF STRIPING, YELLOW	SY	50
656-0050	REMOVE EXIST SOLID TRAF STRIPE, 5 IN, THERMOPLASTIC	LF	1231
656-0080	REMOVE EXIST SOLID TRAF STRIPE, 8 IN, THERMOPLASTIC	LF	90
656-0120	REMOVE EXIST SOLID TRAF STRIPE, 12 IN, THERMOPLASTIC	LF	154
656-0240	REMOVE EXIST SOLID TRAF STRIPE, 24 IN, THERMOPLASTIC	LF	80
656-5000	REMOVE EXIST TRAF MARKINGS	EACH	4

INTERSECTION OF SR 44 / LAKE OCONEE PARKWAY & SCOTT ROAD

LIST OF MATERIALS

	TRAFFIC SIGNAL PAY ITEMS
PAY ITEM NO.	ITEM DESCRIPTION
639-3004	STEEL STRAIN POLE, TYPE IV (W/ 35' MAST ARM) [BLACK POWDER COATED]
639-3004	STEEL STRAIN POLE, TYPE IV (W/ 55' MAST ARM) [BLACK POWDER COATED]
639-3004	STEEL STRAIN POLE, TYPE IV (W/ 60' MAST ARM) [BLACK POWDER COATED]
647-1000	TRAFFIC SIGNAL INSTALLATION #1
647-2140	PULL BOX, PB-4
647-3000	INTERNALLY ILLUMINATED STREET SIGN (SINGLE-SIDED)
647-3100	INTERNALLY ILLUMINATED STREET NAME SIGN CONTROL ASSEMBLY
682-9950	DIRECTIONAL BORE, 5"
682-9950	DIRECTIONAL BORE, 7"
687-1000	TRAFFIC SIGNAL TIMING
937-6000	MICROWAVE RADAR DETECTION ASSEMBLY
937-8020	TESTING - MICROWAVE DETECTION SYSTEM
937-8520	TRAINING - MICROWAVE DETECTION SYSTEM

INTERNALLY	ILLUMINATED	OVERHEND
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SOUTHEASTERN ENGINEERING, INC. Civil, Traffic, Transportation, Land Surveying, Landscape Architecture, and Land Planning 2470 Sandy Plains Road Marietta, Georgia 30066 tel: 770-321-3936 www.seengineering.com



SR 44 <i>17.4</i> <i>6</i> <i>16.8</i> <i>16.8</i> <i>16.8</i> <i>16.8</i> <i>16.8</i> <i>16.8</i> <i>16.8</i> <i>16.8</i> <i>16.8</i> <i>16.8</i> <i>16.8</i> <i>16.8</i> <i>16.8</i> <i>16.8</i> <i>16.8</i> <i>16.8</i> <i>16.8</i> <i>16.8</i> <i>16.8</i> <i>16.8</i> <i>16.8</i> <i>16.8</i> <i>16.8</i> <i>16.8</i> <i>16.8</i> <i>16.8</i> <i>16.8</i> <i>16.8</i> <i>16.8</i> <i>16.8</i> <i>16.8</i> <i>16.8</i> <i>16.8</i> <i>16.8</i> <i>16.8</i> <i>16.8</i> <i>16.8</i> <i>16.8</i> <i>16.8</i> <i>16.8</i> <i>16.8</i> <i>16.8</i> <i>16.8</i> <i>16.8</i> <i>16.8</i> <i>16.8</i> <i>16.8</i> <i>16.8</i> <i>16.8</i> <i>16.8</i> <i>16.8</i> <i>16.8</i> <i>16.8</i> <i>16.8</i> <i>16.8</i> <i>16.8</i> <i>16.8</i> <i>16.8</i> <i>16.8</i> <i>16.8</i> <i>16.8</i> <i>16.8</i> <i>16.8</i> <i>16.8</i> <i>16.8</i> <i>16.8</i> <i>16.8</i> <i>16.8</i> <i>16.8</i> <i>16.8</i> <i>16.8</i> <i>16.8</i> <i>16.8</i> <i>16.8</i> <i>16.8</i> <i>16.8</i> <i>16.8</i> <i>16.8</i> <i>16.8</i> <i>16.8</i> <i>16.8</i> <i>16.8</i> <i>16.8</i> <i>16.8</i> <i>16.8</i> <i>16.8</i> <i>16.8</i> <i>16.8</i> <i>16.8</i> <i>16.8</i> <i>16.8</i> <i>16.8</i> <i>16.8</i> <i>16.8</i> <i>16.8</i> <i>16.8</i> <i>16.8</i> <i>16.8</i> <i>16.8</i> <i>16.8</i> <i>16.8</i> <i>16.8</i> <i>16.8</i> <i>16.8</i> <i>16.8</i> <i>16.8</i> <i>16.8</i> <i>16.8</i> <i>16.8</i> <i>16.8</i> <i>16.8</i> <i>16.8</i> <i>16.8</i> <i>16.8</i> <i>16.8</i> <i>16.8</i> <i>16.8</i> <i>16.8</i> <i>16.8</i> <i>16.8</i> <i>16.8</i> <i>16.8</i> <i>16.8</i> <i>16.8</i> <i>16.8</i> <i>16.9</i> <i>16.9</i> <i>16.9</i> <i>16.9</i> <i>16.9</i> <i>16.9</i> <i>16.9</i> <i>16.9</i> <i>16.9</i> <i>16.9</i> <i>16.9</i> <i>16.9</i> <i>16.9</i> <i>16.9</i> <i>16.9</i> <i>16.9</i> <i>16.9</i> <i>16.9</i> <i>16.9</i> <i>16.9</i> <i>16.9</i> <i>16.9</i> <i>16.9</i> <i>16.9</i> <i>16.9</i> <i>16.9</i> <i>16.9</i> <i>16.9</i> <i>16.9</i> <i>16.9</i> <i>16.9</i> <i>16.9</i> <i>16.9</i> <i>16.9</i> <i>16.9</i> <i>16.9</i> <i>16.9</i> <i>16.9</i> <i>16.9</i> <i>16.9</i> <i>16.9</i> <i>16.9</i> <i>16.9</i> <i>16.9</i> <i>16.9</i> <i>16.9</i> <i>16.9</i> <i>16.9</i> <i>16.9</i> <i>16.9</i> <i>16.9</i> <i>16.9</i> <i>16.9</i> <i>16.9</i> <i>16.9</i> <i>16.9</i> <i>16.9</i> <i>16.9</i> <i>16.9</i> <i>16.9</i> <i>16.9</i> <i>16.9</i> <i>16.9</i> <i>16.9</i> <i>16.9</i> <i>16.9</i> <i>16.9</i> <i>16.9</i> <i>16.9</i> <i>16.9</i> <i>16.9</i> <i>16.9</i> <i>16.9</i> <i>16.9</i> <i>16.9</i> <i>16.9</i> <i>16.9</i> <i>16.9</i> <i>16.9</i> <i>16.9</i> <i>16.9</i> <i>16.9</i> <i>16.9</i> <i>16.9</i> <i>16.9</i> <i>16.9</i> <i>16.9</i> <i>16.9</i> <i>16.9</i> <i>16.9</i> <i>16.9</i> <i>16.9</i> <i>16.9</i> <i>16.9</i> <i>16.9</i> <i>16.9</i> <i>16.9</i> <i>16.9</i> <i>16.9</i> <i>16.9</i> <i>16.9</i> <i>16.9</i> <i>16.9</i> <i>16.9</i> <i>16.9</i> <i>16.9</i> <i>16.9</i> <i>16.9</i> <i>16.9</i> <i>16.9</i> <i>16.9</i> <i>16.9</i> <i>16.9</i> <i>16.9</i> <i>16.9</i> <i>16.9</i> <i>16.9</i> <i>16.9</i> <i>16.9</i> <i>16.9</i> <i>16.9</i> <i>16.9</i> <i>16.9</i> <i>16.9</i> <i>16.9</i> <i>16.9</i> <i>16.9</i> <i>16.9</i>	Identifier : D3-1 *2; I.875* Radius, 0.0* Border, White on Green; *Scott* D; *Rd* D;	ott Rd	
S E I	REVISION DATES	PUTNAM COUNTY <u>BOARD OF COMMISSIONERS</u> COLLABORATIVE INFRASTRUCTURE SERVICES	
- ENGINEERING, INC.		SIGNAL PLANS	
Transportation, Land Surveying, Chiceture, and Kann Planning Ins Road Marietta, Georgia 30066 1-3386 www.seengineering.com		SR 44 AT SCOTT RD LIST OF MATERIALS 27	-0003

	NOTES		
QUANTITIES ARE FOR I	NFORMATION PURPO	DSES ONLY	-
CONTRACTOR TO FIELD	VERIFY PRIOR TO	ORDERING	MATERIALS

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA			

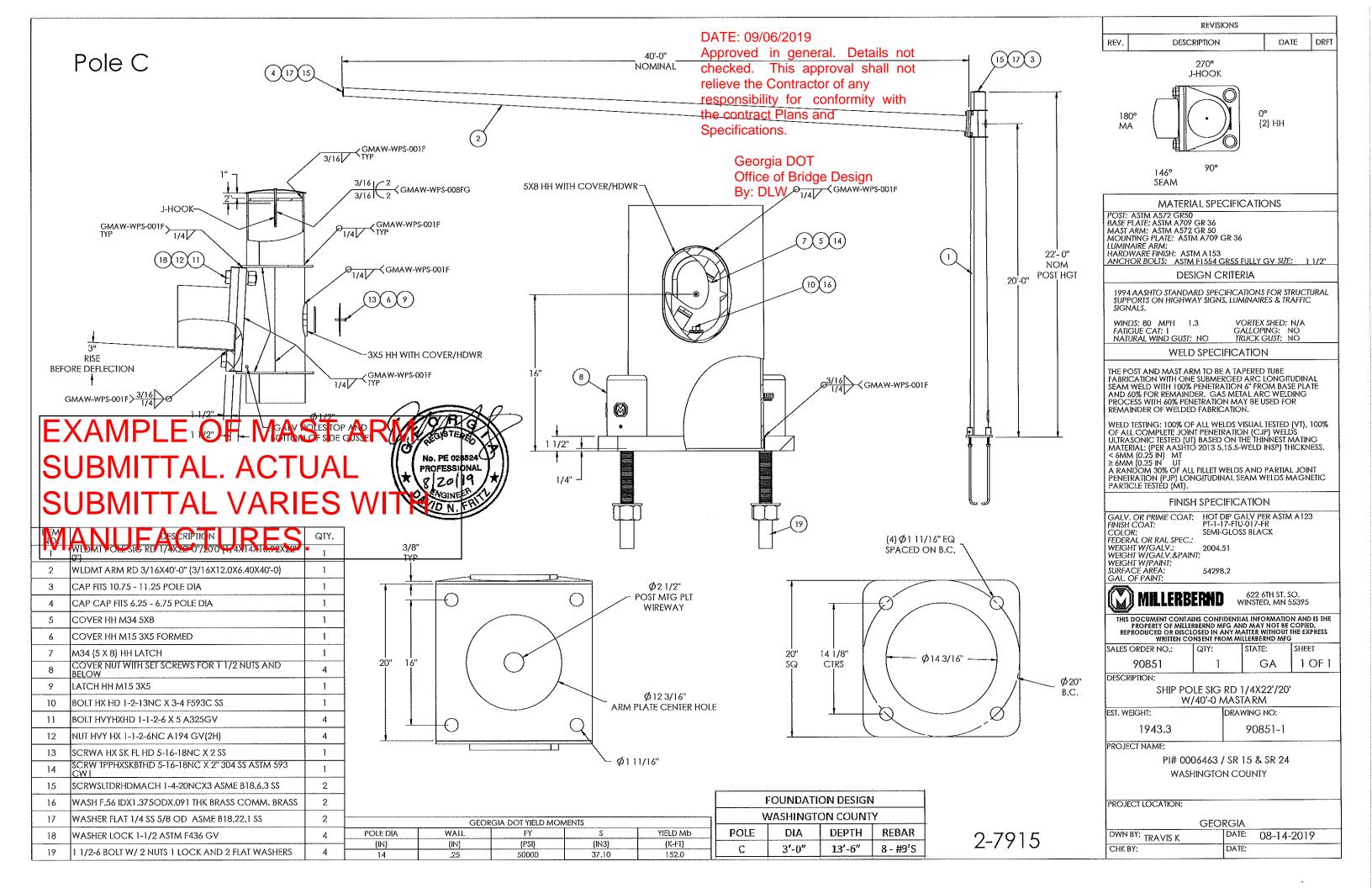
332 CABINET INPUT ASSIGNMENT

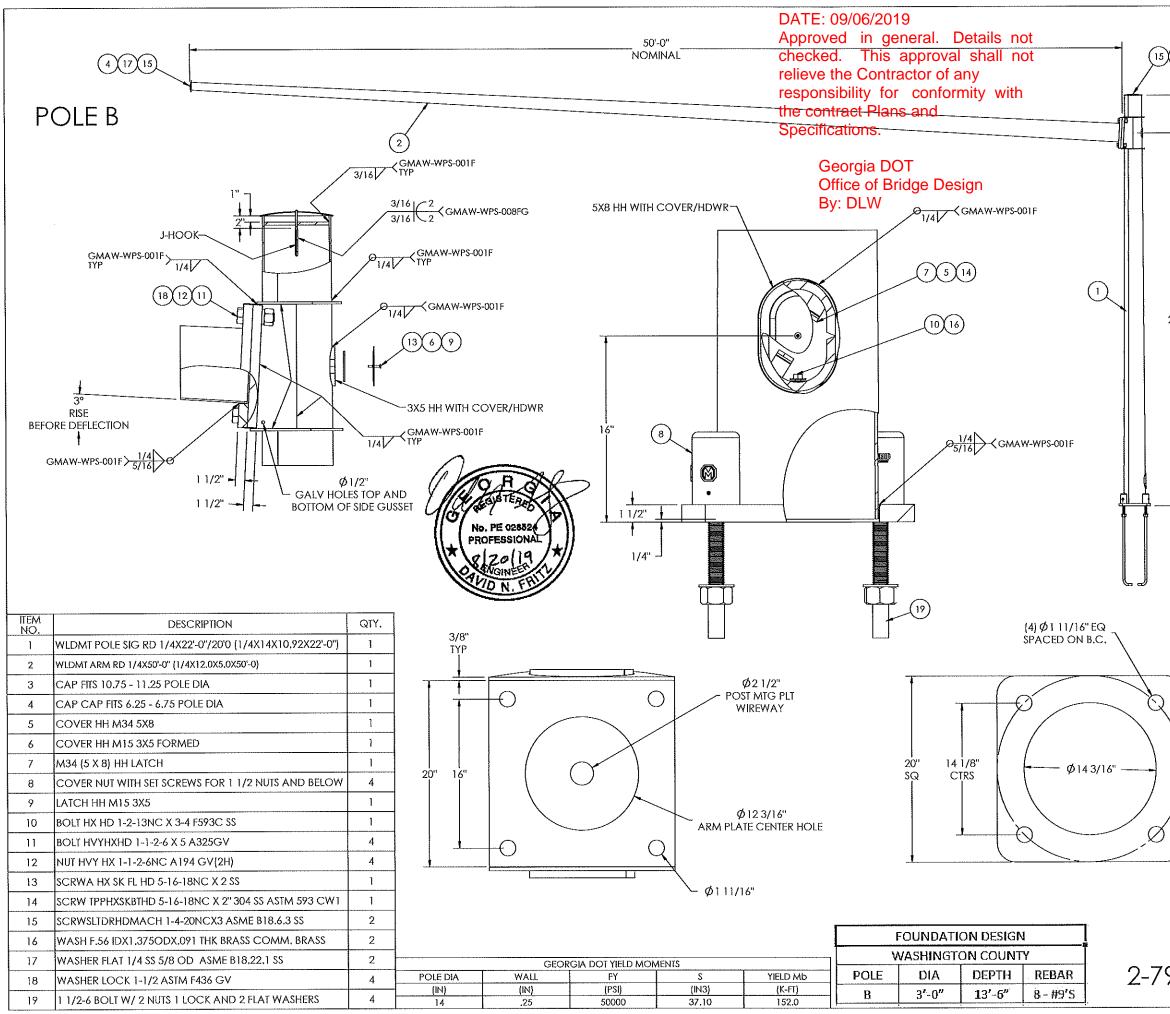
UPPER INPUT FILE

LOWER INPUT FILE

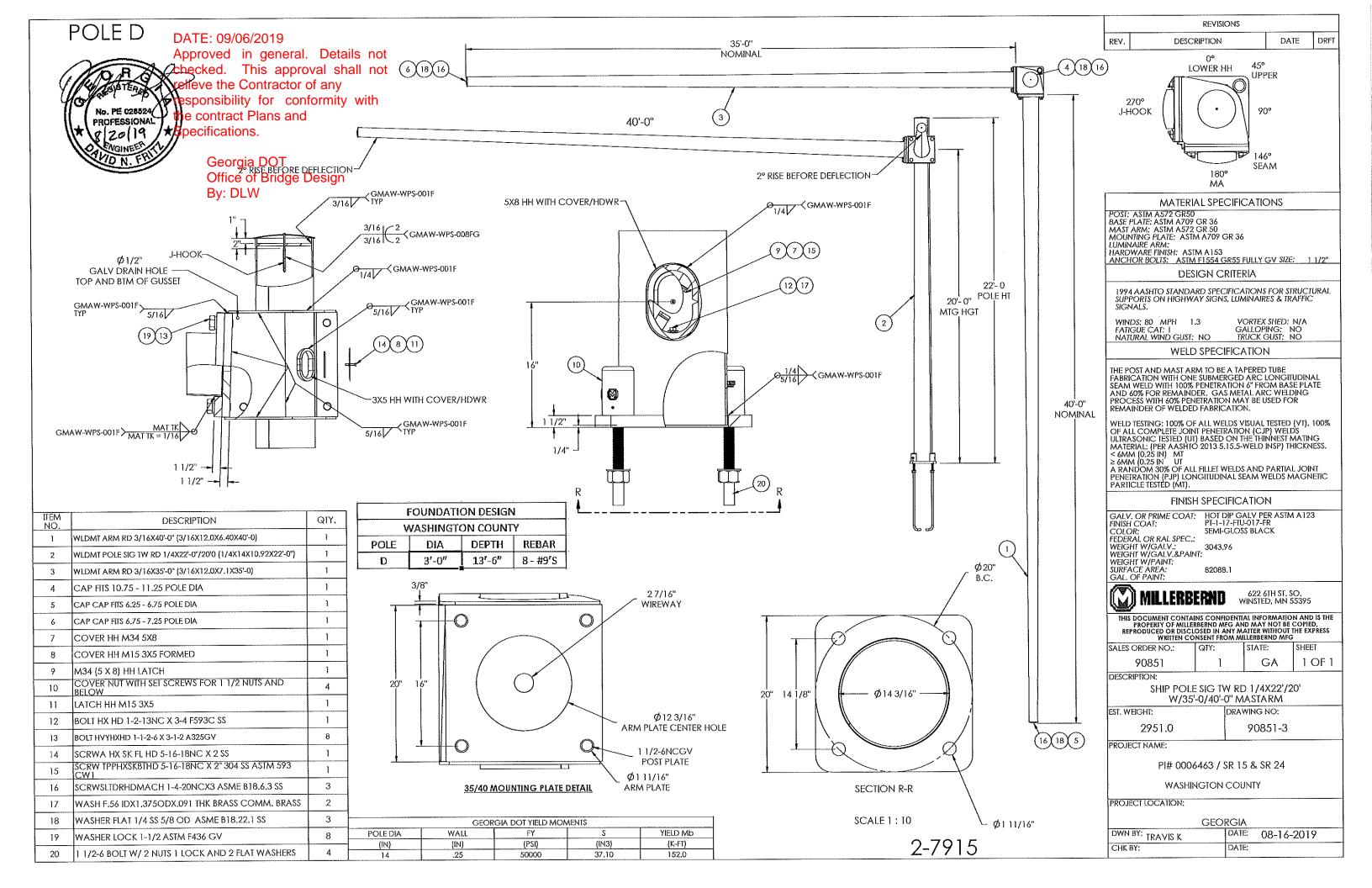
UNIT	QUANTITY
EACH	1
EACH	1
EACH	1
LUMP	LUMP
EACH	1
EACH	3
EACH	1
LF	95
LF	115
LUMP	LUMP
EACH	4
LUMP	LUMP
LUMP	LUMP

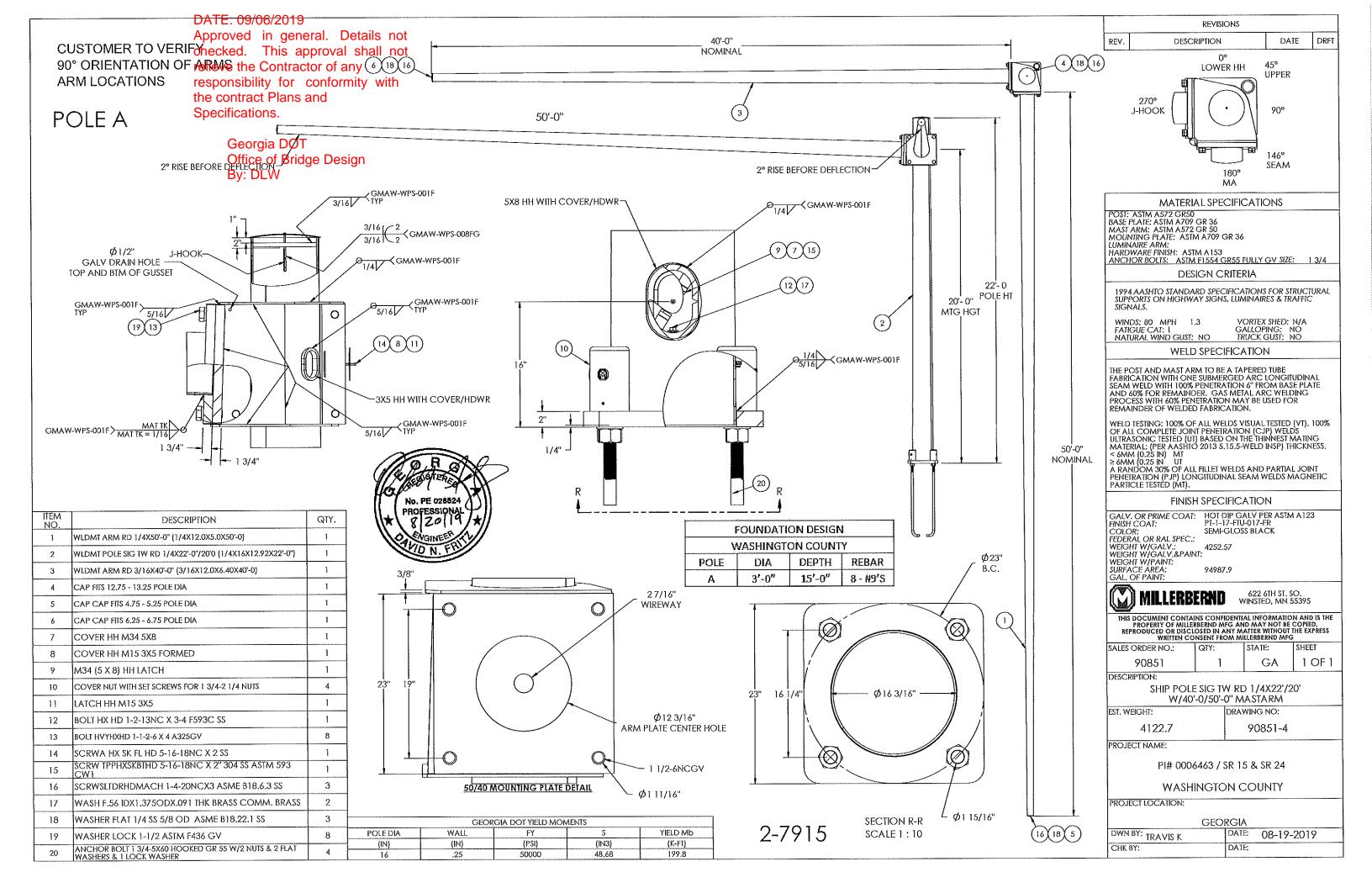
AD STREET NAME SIGNS

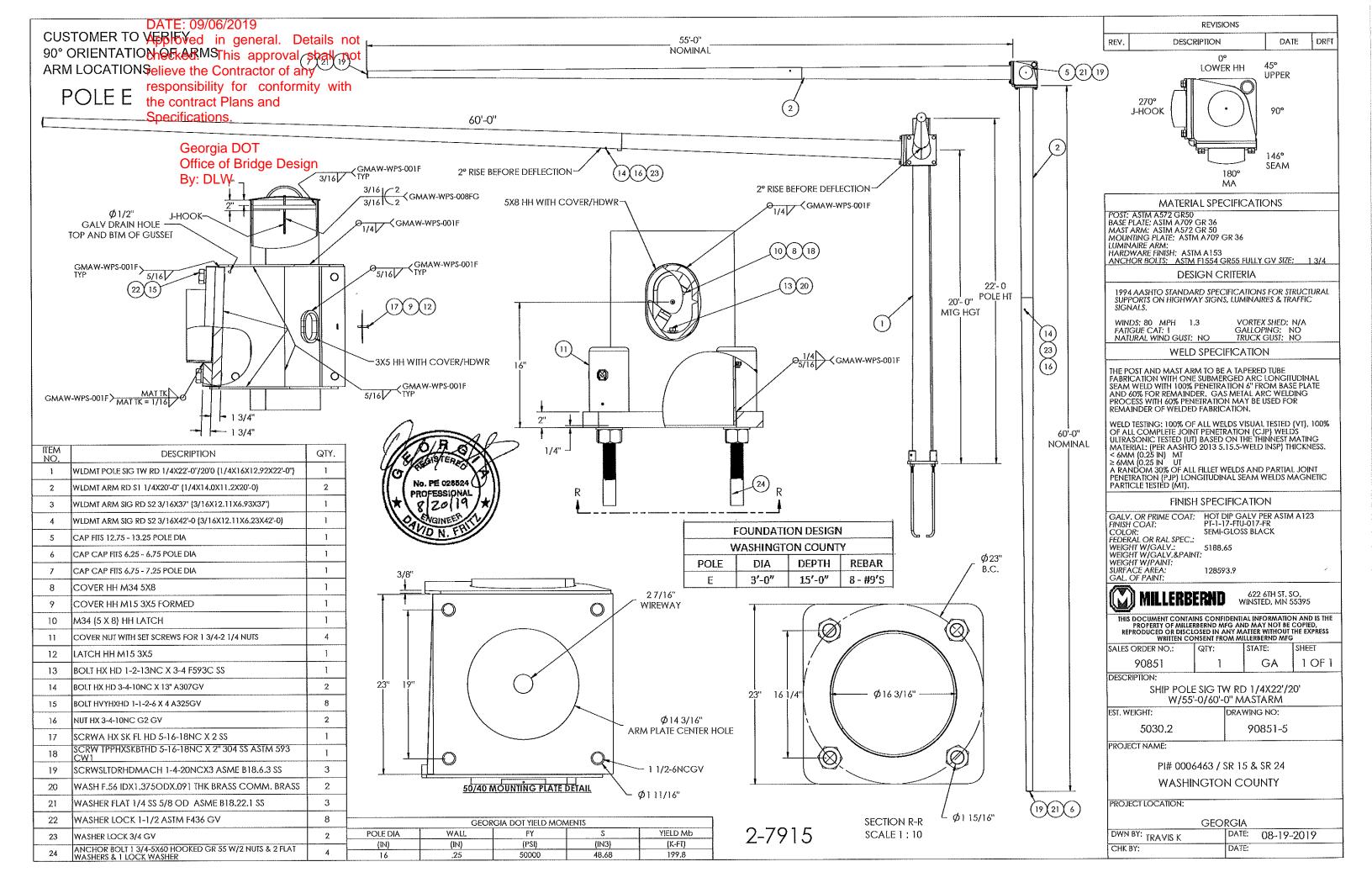




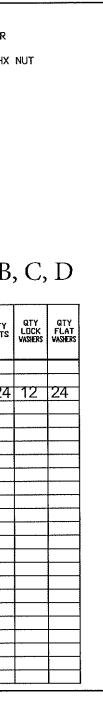
·		REVISIONS
	REV. DESCRI	PTION DATE DRFT
		270° 100K
	180° MA	• 0° (2) нн
	146° SEAM	90°
22'- 0" NOM POST HGT	POST: ASTM A572 GR50 BASE PLATE: ASTM A709 G MAST ARM: ASTM A572 G MOUNTING PLATE: ASTM LUMINAIRE ARM: HARDWARE FINISH: ASTM ANCHOR BOLTS: ASTM F	GR 50 A709 GR 36
20'-0"	1994 AASHTO STANDARI SUPPORTS ON HIGHWAY	D SPECIFICATIONS FOR STRUCTURAL Y SIGNS, LUMINAIRES & TRAFFIC
	SIGNALS, WINDS: 80 MPH 1.3 FATIGUE CAT: 1 NATURAL WIND GUST: N	GALLOPING: NÓ NO TRUCK GUST: NÓ
	WELD :	SPECIFICATION
	SEAM WELD WITH 100% PI AND 60% FOR REMAINDE	SUBMERGED ARC LONGITUDINAL ENETRATION 6" FROM BASE PLATE R. GAS METAL ARC WELDING TRATION MAY BE USED FOR
	OF ALL COMPLETE JOINT ULTRASONIC TESTED (UT) MATERIAL: (PER AASHTO < 6MM (0.25 IN) MT 2 6MM (0.25 IN) UT A RANDOM 30% OF ALL F	ALL WELDS VISUAL TESTED (VT), 100% PENETRATION (CJP) WELDS BASED ON THE THINNEST MATING 2013 5.15.5-WELD INSP) THICKNESS. FILLET WELDS AND PARTIAL JOINT GITUDINAL SEAM WELDS MAGNETIC
	·····	SPECIFICATION
	GALV. OR PRIME COAT: FINISH COAT: COLOR: FEDERAL OR RAL SPEC.: WEIGHT W/GALV.: WEIGHT W/GALV.&PAINT: SURFACE AREA: GAL OF PAINT:	HOT DIP GALV PER ASTM A123 PT-1-17-FTU-017-FR SEMI-GLOSS BLACK 2394.52
	MILLERBE	622 6TH ST. SO. WINSTED, MN 55395
\backslash	PROPERTY OF MILLERB	IS CONFIDENTIAL INFORMATION AND IS THE BERND MFG AND MAY NOT BE COPIED, SED IN ANY MATTER WITHOUT THE EXPRESS SENT FROM MILLERBERND MFG
Y	· · · · · · · · · · · · · · · · · · ·	QTY: STATE: SHEET
	90851 DESCRIPTION:	1 GA 1 OF 1
Ø20" B,C.	SHIP POLI	E SIG RD 1/4X22'/20' 50'-0 MASTARM
	EST. WEIGHT:	DRAWING NO:
	2321.4	90851-2
	PROJECT NAME:	122 / CD 15 0 CD 91
		463 / SR 15 & SR 24 INGTON COUNTY
	PROJECT LOCATION:	
~		GEORGIA
915	DWN BY: TRAVIS K	DATE: 08-14-2019
	СНК ВҮ:	DATE:







						"L" ± 1	/2						/ − HV	ү нх	NUT		
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	/94 ⁻		ţ.									//			/	115.21	
	A GYSTERE	<u> </u>	"D" ± 1/8	/ D	* <u>+</u> 1/4			 	' C	·		/			1	Γ ^{HV}	тнх
I III	No. PE 02652	4 (J))		/ ~ ~	_ 1/4	' A' ¬						Ţ	-			Ł	
{{ {	PROFESSION	ALT	<u> </u>	115	0	<u> </u>					R	R				\neg	
(*\	8 20/19	<i>ヽ/★//</i>						<u> </u>			-8-	Ы			9-11-1	Ⅎ	
\\@	NGINEER	&//				/ _ '	677.6 A						$\mathbf{\tilde{\mathbf{X}}}$	L L			
	DN. FY	Y		I LENGIH BE	FORE BENDING	- ([•B• —⁄		CUL	OR CODE -				$^{\prime}$			
			NOTES											-	.EICKWAS	HER	
				BOLT PER AS	STM F1554 GR	RADE 55 S1	5, (EAVY HEX I (.030 OVER				R ASTM			
	000000		YIELD S	TRENGTH $= 5$	5,000 PSI MI			EQUIV	ALENT)								
1	SO#0908	3517	TENSILE	STRENGTH =	75,000-95,00	DO PSI	6, 1	ND VE	LDING I	S ALLOVED	EIN ANC	HOR B	OLTS				
PI# 00	06463		2. FULLY I	HOT DIP GAL	ANIZE PER	ASTM A153.	7. (JALVA	NIZED F	LAT VASHEI	RS PER	ASTM	F436				
ST15	& SR 24		3. THREAD	TH BE CLAS	S 2A PER AM	ERICAN	8. (NIZED I	OCKWASHER	2						
			STD. B	1.1 .030 OVER	SIZE AFTER	GALVANIZING				NCHOR BOLI		а сст	- com		POI	FS	βB
			4. ALL BOI	TS ROLLED	THREAD					PAINTED P				4	-		
	1 .	1	T	1		1		1		1	<u>г</u>	r	I	1	1	<u> </u>	
PART NO	PART NO BOLT V/3	PART NO BOLT V/3	PART NO BOLT V/2	PART NO BOLT V/2	PART NO BOLT V/2	PART NO	PART NO			"B"	'C'				COLOR	QTY	QTY
BOLT (ONLY)	NUTS, 2 LOCK & 2 FLAT	NUTS & 2 FLAT	NUTS, I LOCK	NUTS, 2 LOCK	NUTS & & 2 FLAT	BOLT V/2 NUTS	BOLT V/1 NUT	'A'	CL	THD SIZE	eff min Thij lg	1.1	"D"	"R"	CODE	BOLTS	NUTS
	WASHERS	VASHERS	VASHERS	WASHERS	WASHERS												ļ
460A579-1	460A579-1TNV		4	460A579-1DNLV	460A579-1DNFV	460A579-1DN	460A579-1N	.91	40*	1-8	6"	36*	4*	2 1/2			
460A579-2 460A579-3	460A579-2TN			460A579-2DNLV	460A579-2DNFV 460A579-3DNFV	460A579-2DN 460A579-3DN	460A579-2N 460A579-3N	1.148	48* 60*	1 1/4-7	8" 10"	42' 54'	6* 6*	2 1/2		12	24
460A579-4	460A579-4TN	<u> </u>		460A579-4DNLV	460A579-4DNFV	460A579-4DN	460A579-4N	1.613	90*	1 3/4-5	10'	84"	6"	3 1/2	YELLOW		
460A579-5	460A579-5TN	460A579-5TNFV	460A579-5DNW	460A579-5DNLV	460A579-5DNFV	460A579-5DN	460A579-5N	1,845	90″	2-4 1/2	10″	84*	6*	4'	YELLOW		
460A579-6				460A579-6BNLW		460A579-6DN	460A579-6N	2.148	96*	2 1/4-4 1/2	12'	89*	7*	4 1/2	YELLOW		
460A579-7 460A579-8	460A579-7TNW	<u> </u>		460A579-7BNLW		460A579-7DN 460A579-8DN	460A579-7N 460A579-8N	1,845 1,148	96* 40*	2-4 1/2	10"	90° 36°	6" 4"	4'	YELLOW	+	
460A579-9				460A579-9DNLW		460A579-9DN	460A579-9N	1.148	514	1 1/4-7	6"	45'	6*	2 1/2	YELLOW		
460A579-10	460A579-10TN	460A579-10TNFV	460A579-10DNV	460A579-10DNLW	460A579-10DNFW	460A579-10DN	460A579-10N	1.381	66*	1 1/2-6	10*	60*	6*	3 3/8	YELLOW		
460A579-11				460A579-11DNLW	1		460A579-11N	1.148	48″	1 1/4-7	10"	42'	6*	2 1/2		<u> </u>	
	460A579-12TN	<u>}</u>		460A579-12DNLV	460A579-12DNFW		460A579-12N 460A579-13N	1.381	60" 42"	1 1/2-6	10" 6"	54' 38'	6" 4"	3 3/8		\vdash	
460A579-14				460A579-14DNLV			460A579-14N	1.845	66"	2-4 1/2	10"	60"	6.	4'	YELLOW	+	
460A579-15				460A579-15DNLV			460A579-15N	1,148	54*	1 1/4-7	97	48′	6*	2 1/2	YELLOW		
460A579-16				460A579-16DNLV			460A579-16N	,91	96*	18	67	90″	4*	2 1/2	YELLOV		
460A579-17	-	<u> </u>			460A579-17DNFW		460A579-17N	1,381	90* 46*	1 1/2-6	10'	84' 42'	6* 4*		YELLOV YELLOV	+	
		460A579-18TNFV 460A579-19TNFV					460A579-18N 460A579-19N	,91 1,381	801	1-8	10"	72'	4" 6"		YELLOW		
		460A579-20TNF	1				460A579-20N	1.148	90*	1 1/4-7	10*	84'	6*	2 1/2	1		İ
		460A579-21TNF			<u> </u>		460A579-21N	1.613	80″	1 3/4-5	10'	72'	6*	3 1/2			
		460A579-22TNFV			<u> </u>		460A579-22N	1,148	96*	1 1/4-7	12'	90'	6*	2 1/2			
		460A579-23TNFV 460A579-24TNFV					460A579-23N 460A579-24N	1.381	96* 96*	1 1/2-6	12'	90* 90*	6* 6*	3 3/8			
	1	1	1	1	<u>г</u>		·	1				L					I
REV 01/3	31/19 CHANGED (6-10 ADDED SHE	ALL A.B. TO FULLY ET -29 TO CHART	Y GALVANIZED 1	гк		DWN: JAMI	ED.				ANC	ΉП	R	ВЦІ	ZТ		
REV 1-9	-17 ADDED SHEE	T 2 AND -25 AND 2,-23 AND -24 TO) –26 to chart	г			C 11								LY GA		
REV 12-1	8-16 ADDED 460	A579-21				DATE: 08-1								, FUL			
REV 6-3 REV 9-6	0-15 ADDED 460 -13 -9 CL VAS	1A579-13 40'		A FA F	_ [CHK: FLOY	'D F. 🛛 🖪	/ • I						*****	11110 00		SHEE
REV 11-8	28-11 CHANGE 'C 3,-4 & -5 FROM	" ON -1 FROM 8" 1 12" TO 10" AND		2-7915	> †	0001 E · · ·		/		rbei	rn	יח		ACTU (NSTE)	RING CO D. MN	' 4	-61
-6 FROM	90" TO 89" AN	d "d" from 6" to	7'			SCALE: 1	NTS I										



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DATE: 09/06/2019 Approved in general. Details not checked. This approval shall not relieve the Contractor of any responsibility for conformity with the contract Plans and Specifications.

Georgia DOT Office of Bridge Design By: DLW

Part No Bolt (only)	PART NO BOLT W/3 NUTS, 2 LOCK & 2 FLAT WASHERS	PART ND BOLT W/3 NUTS & 2 FLAT WASHERS	PART NO BOLT V/2 NUTS, I LOCK & 2 FLAT VASHERS	PART NO BOLT V/2 NUTS, 2 LOCK & 2 FLAT VASHERS	PART NO BOLT W/2 NUTS & & 2 FLAT WASHERS	PART NO BOLT W/2 NUTS	PART NO BOLT W/1 NUT	' A'	CL		"C" EFF MIN THD LG	°L*	"D"	'R'	Color Code	QTY BOLTS	QTY NUTS	QTY LOCK VASHERS	QTY FLAT VASHER
460A579-25	460A579-25TNV	460A579-25TNFV	460A579-25DNW	460A579-25DNLV	460A579-25DNFW	460A579-25DN	460A579-25N	1.148	57'	1 1/4-7	8"	51′	6"	2 1/2	YELLOV				
460A579-26	460A579-26TNW	460A579-26TNFW	460A579-26DNW	460A579-26DNLV	460A579-26DNFW	460A579-26JIN	460A579-26N	1.613	94″	1 3/4-5	10*	88'	6'	3 1/5	YELLOV				
460A579-27	460A579-27TNW	460A579-27TNFV	460A579-27DNW	460A579-27DNLV	460A579-27DNFW	460A579-27DN	460A579-27N	.91	66'	18	6″	60'	4″	2 1/2	YELLOV				Í
460A579-28	460A579-28TNW	460A579-28TNFW	460A579-28DNW	460A579-28DNLV	460A579-28DNFW	460A579-28DN	460A579-28N	2.148	105″	2 1/4-4 1/2	12'	96″	4"	2 1/2	YELLOV				
460A579-29	460A579-29TNW	460A579-29TNFW	460A579-29DNW	460A579~29DNL.V	460A579-29DNFW	460A579-29DN	460A579-29N	1,148	60*	1 1/4-7	8"	54″	6'	2 1/2	YELLOW				
460A579-30	460A579-30TNW	460A579-30TNFV	460A579-30DNW	460A579-30DNL.V	460A579-30DNFV	460A579-30DN	460A579-30N	1,613	90*	1 3/4-5	8″	84″	6″	3 1/2	YELLOW				Í
460A579-31	460A579-31TNW	460A579-31TNFV	460A579-31DNW	460A579-31DNL.W	460A579-31DNFV	460A579-31DN	460A579-31N	2,148	95'	2 1/4-4 1/2	12'	8 8'	74	4 1/2	YELLOW				
460A579-32	460A579-32TNV	460A579-32TNFW	460A579-32DN	460A579-32DNLV	460A579-32DNFW	460A579-32DN	460A579-32N	.91	30'	1-8	6″	26'	4"	2 1/2	YELLOV				
460A579-33	460A579-33TNV	460A579-33TNFW	460A579-33DN	60A579-33DNLV	60A579-33DNFV	460A579-33DN	460A579-33N	1.845	90"	2-4 1/2	10"	84″	6*	41	YELLOW				



MMC SO#090851 /	
PI# 0006463	
ST15 & SR 24	

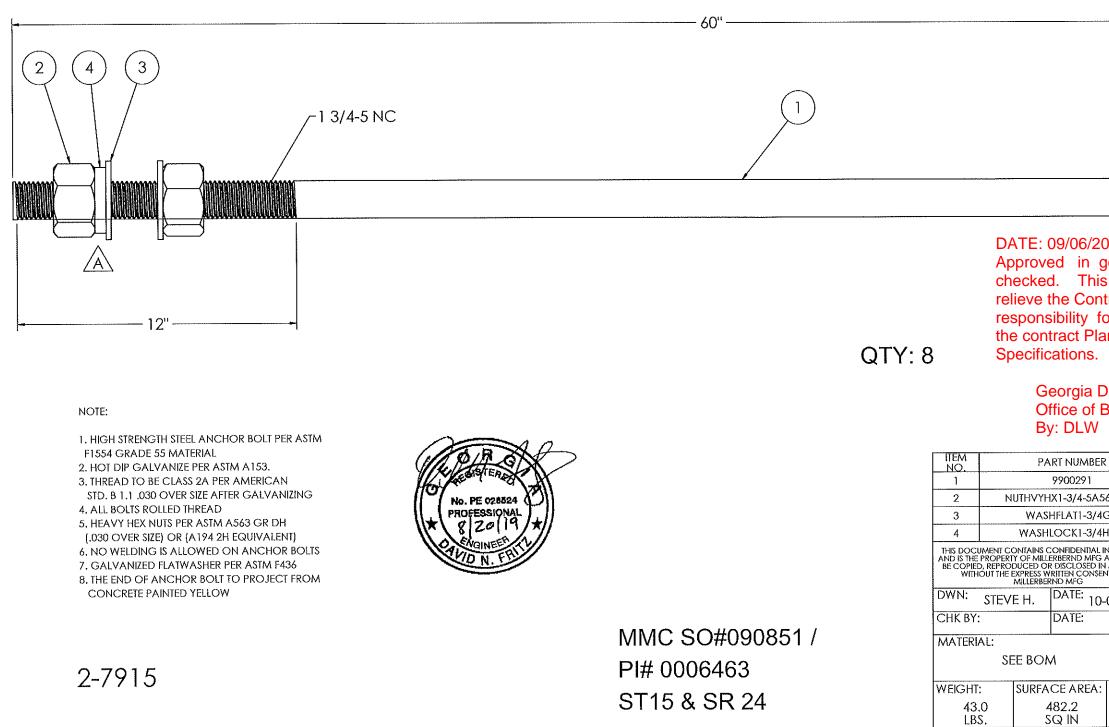
DWNI JAMIE D.	ANCHER BELTS	~
DATE: 08-16-11	F1554 GRADE 55 FULLY GAL	V
	Millerbernd MANUFACTURING CD. WINSTED, MN	

DATE: 09/06/2019



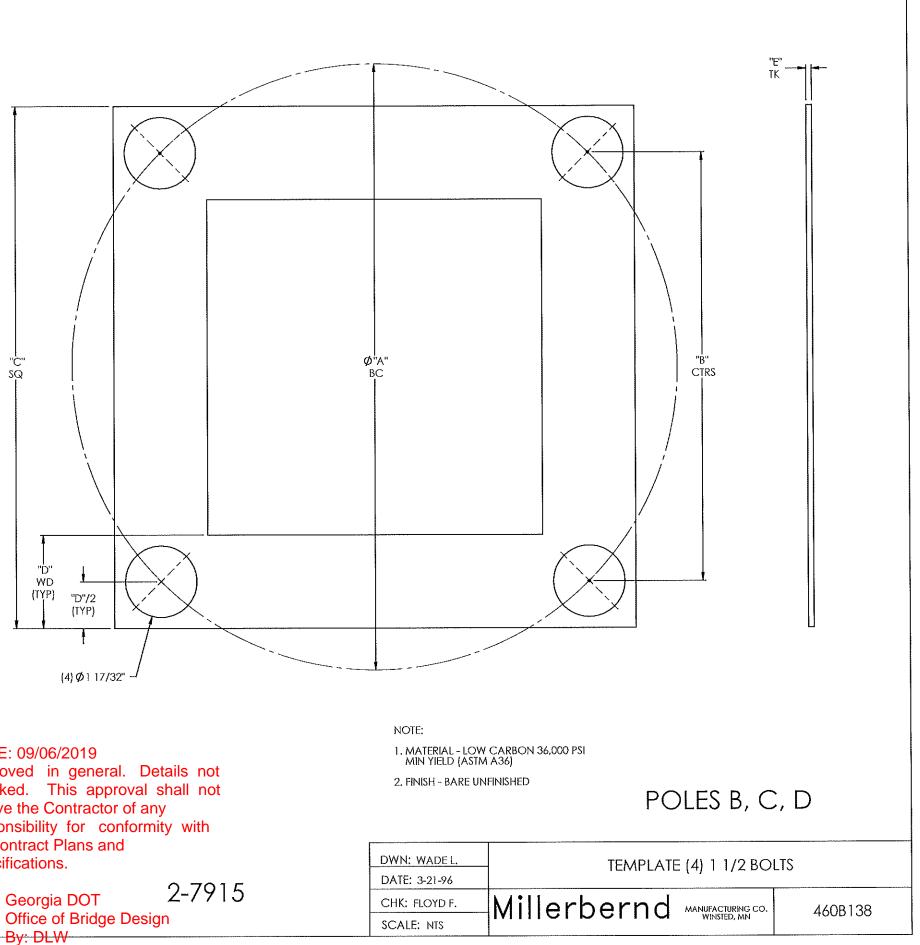
Approved in general. Details not checked. This approval shall not relieve the Contractor of any responsibility for conformity with the contract Plans and Specifications.

> Georgia DOT Office of Bridge Design By: DLW



			REV.	DESCRIPTIO		DATE	DRFT
			A	ADDED LOCK V	VASHER	12/14/2018	AJS
g is fc a D	approv ractor of or confo ns and OT	ormity wi	not th	oles A	& E		
R		ANCH	OR BC	DESCRIPTION DLT 1 3/4-5 X 54" H	IOOKED GI	\$ 55	1
	63HGV	N		(HX 1-3/4-5NC A			2
	SV			ASHER FLAT 1-3/4			2
			WA	SHER LOCK 1-3/4	HGV		1
€ IN	NFORMATION AND MAY NOT ANY MATTER IT FROM			LERBEF	ND ~	622 6TH ST. (INSTED, MN	SO. 55395
	04-2018	DESCRIPTIC	DN:				
)-		& 2	HC	NCHOR BOLT DOKED GR 55 WASHERS &	5 W/2 N	UTS	2

DASH	QTY	"A"	"B"	"C"	"D"	"E"
NO	QIT	DIABC	CTRS	sq	WD	TK
460B138-1		13"	9 3/16	11 3/16	2"	11GA
460B138-2		13 1/2	9 17/32	11 17/32	2"	11GA
4608138-3		14"	9 29/32	11 29/32	2"	11GA
4608138-4		15"	10 19/32	12 19/32	2 ⁰	11GA
4608138-5		16"	11 5/16	13 5/16	2"	11GA
4608138-6		16 7/8	11 15/16	13 15/16	2"	11GA
460B138-7		17"	12 1/32	14 1/32	2"	11GA
460B138-8		18"	12 23/32	14 23/32	2"	11GA
460B138-9		18 3/4	13 1/4	15 3/4	2 1/2	11GA
460B138-10		19 7/16	13 3/4	16 1/4	2 1/2	11GA
460B138-11	3	20"	14 5/32	16 21/32	2 1/2	11GA
4608138-12		22"	15 9/16	18 1/16	2 1/2	11GA
4608138-13		18 1/2	13 3/32	15 19/32	2 1/2	11GA
460B138-14		17 1/2	12 3/8	14 3/8	2"	11GA
460B138-15		14 1/2	10 1/4	12 1/4	2"	11GA
460B138-16		16 1/2	11 21/32	13 21/32	2"	11GA
460B138-17		17 1/4	12 3/16	14 3/16	2"	11GA
460B138-18		15 1/2	11"	13"	2"	11GA
460B138-19		27"	19 1/16	21 9/16	2 1/2	11GA
460B138-20		19"	13 7/16	15 15/16	2 1/2	11GA
460B138-21		32"	22 5/8	25 1/8	2 1/2	11GA
460B138-22		21"	14 7/8	17 3/8	2 1/2	11GA
460B138-23		27 1/2	19 7/16	21 7/16	2"	11GA
460B138-24		12 1/2	8 27/32	10 27/32	2"	11GA
460B138-25		22 5/8	16"	18"	2"	11GA
460B138-26		17"	12"	14"	2"	1/4
460B138-27		24"	17"	19"	2"	11GA
460B138-28		26 1/2	18 3/4	20 3/4	2"	11 GA
460B138-29		16"	11 5/16	13 5/16	2"	1/4
460B138-30		31 1/2	22 1/4	24 1/4	2"	11 GA
4608138-31		19 1/2	13 13/16	15 13/16	2"	11 GA
460B138-32		23 1/2	16 5/8	18 5/8	2*	11 GA





DATE: 09/06/2019

Approved in general. Details not checked. This approval shall not relieve the Contractor of any responsibility for conformity with the contract Plans and Specifications.

> Office of Bridge Design By: DLW

DWN: WADEL.	
DATE: 3-21-96	
CHK: FLOYD F.	_Mille
SCALE: NTS	

MMC SO#090851 / PI# 0006463 ST15 & SR 24

REV 3-13-08 CHANGE TO ONE PIECE FROM WELDED ASSEMBLY

۰.

	MMC SO#09 PI# 0006463 ST15 & SR 2	3			
24	15*	10 5/8"	10 5/8*		
23	14 1/2"	10 1/4"	10 1/4"		
22	16 1/2*	11 11/16″	11 11/16*		
21	24 1/2"	17 5/16*	17 5/16*		
20	20 1/2*	14 1/2"	14 1/2*		
19	22 1/2*	15 15/16″	15 29/32'		
18	25″	17 11/16"	17 21/32 *		
17	25%	15 9/16	15 9/16		
16	25 1/2	18″	18*		
15	17*	12″	11 31/32		
14	17 1/2	12 3/8	12 11/32		~
13	16″	11 5/16	11 9/32		
12	23″	16 1/4	16 7/32	QTY : 2	

″B″ CTRS (REF) DATE: 09/06/2019 Approved in general. Details not checked. This approval shall not relieve the Contractor of any responsibility for conformity with the contract Plans and Specifications.

REV 4-30-18: REMEIVED WELD (PR) REV 5-10-17: DASH-24 "B" & "C" WERE 17 15/16 REV 8-25-17: ADDED DASH-22, 23 & 24

Georgia DOT

Office of Bridge Design By: DLW

NDTE

POLES A&E

″B**″** CTRS (REF)

"A" DIA BC

DWNI CHAD G.	
DATE: 3-25-02	
СНК	N/I:11,
SCALEI NTS	IVI IIIE

23*	16 1/4	16 //32	QTT,Z
27 172	19 7716	19 13732	
21 1/2	15 3/16	15 5/32	
19 1/2	13 25/32	13 3/4	
18 1/2	13 1/16	13 1/32	
19*	13 7/16	13 13/32	
21*	14 7/8	14 27/32	
20*	14 1/8	14 3/32	
15*	10 5/8	10 19/32	
24″	17*	16 31/32	
18*	12 3/4	12 23/32	
15 29/32	11 1/4	11 3/16	

"C"

″B**″**

CTRS

11

10

9

8

7

6 5

4

3

2

1 DASH

ND

″A″

DIA BC

No. PE 028524 PROFESSIONAL

