### Huntsville, Alabama

308 Fountain Circle Huntsville, AL 35801

### Cover Memo

Department: Engineering	
Subject: Approval/Action	
Resolution authorizing the Mayor to enter into an Agreement between Alabama Department of Transand the City of Huntsville, Alabama for the Installation, Operation and Maintenance of Traffic Confor Huntsville Northern Bypass, ALDOT Project No. CRSA-PE10(917).	nsportation trol Signals
Resolution No.	
Finance Information:	
Account Number: N/A	
City Cost Amount: N/A	
Total Cost: N/A	
Special Circumstances:	
Grant Funded: N/A	
Grant Title - CFDA or granting Agency: N/A	
Resolution #: N/A	
Location: (list below)	
Address: N/A  District: District 1 □ District 2 □ District 3 □ District 4 □ District 5 □	
Additional Comments: Agreement between the City of Huntsville and ALDOT for the installation and maintenance of a no signal at the intersection of Mt. Lebanon Rd. and Huntsville Northern Bypass.	ew traffic

### **RESOLUTION NO. 23-**

BE IT RESOLVED by the City Council of the City of Huntsville, Alabama, that the Mayor be, and is hereby authorized, to enter into an Agreement between Alabama Department of Transportation and the City of Huntsville, Alabama for the Installation, Operation and Maintenance of Traffic Control Signals for Huntsville Northern Bypass, ALDOT Project No. CRSA-PE10(917), on behalf of the City of Huntsville, a municipal corporation in the State of Alabama, which said Agreement is substantially in words and figures similar to that document attached hereto and identified as "Resolution authorizing the Mayor to enter into an Agreement between Alabama Department of Transportation and the City of Huntsville, Alabama for the Installation, Operation and Maintenance of Traffic Control Signals for Huntsville Northern Bypass, ALDOT Project No. CRSA-PE10(917)," consisting of a total of fourteen (14) pages, and the date of July 27, 2023, appearing on the margin of the first page, together with the signature of the President or President Pro Tem of the City Council, and an executed copy of said document being permanently kept on file in the Office of the City Clerk of the City of Huntsville, Alabama.

<b>ADOPTED</b> this the <u>27th</u> day of	<u>July</u> , 2023.
	President of the City Council of the City of Huntsville, Alabama
<b>APPROVED</b> this the <u>27th</u> day o	f <u>July</u> , 2023.
	Mayor of the City of Huntsville, Alabama

For Official Use Only: Al	LDOT Agreem	ent Number.			
Region Tracking Number:		Project	Number:	CRSA-PE	10(917)
Region: NR - 0	Suntersville		County:	MADISOI	٧
STATE OF ALABAMA DEPARTN INSTALLATION and/or OPERATION This Agreement, in accordance with	<b>NENT OF TRA</b> N and/or MAI ROADWA	NTENANCE O AY LIGHTING	<b>N:</b> AGREEME F TRAFFIC CO	NTROL SIGNA	
		ind made part o			
and between the Alabama Departm	nent of Tran	sportation (he (herein refe	erein referred	to as STA	ATE) and th
accomplishment of the following work as h below, to wit:	ereinafter indic	ated by the alph	abetic letter of	"X" marked in t	:he check-boxe
	(A) New Installation	(B) Equipment Upgrade	(C) Complete Removal	<b>(D)</b> Operation	(E) Maintenance
Traffic Control Signal:	x			x	x
Intersection Flashing Signal/Beacon:					
Roadway Lighting:					
Other:					
The accomplishment of the work inchereinafter signified by the use of the corresplocation(s): {Example: AL-3/US-31 @ Main equipment installed} NOTE – if more space if Huntsville Northern Bypass / Mt	oonding alphabe Street [A, D, & s needed, please	etic letter A, B, C, E] denotes the use continuation	D, and/or E as a installation, ope on sheets.	pplicable, will be	e at the followir
1. For the purposes of this Agreement, associated hardware used to install, signals/beacons, roadway lighting, and the event the work to be accompany to the company of th	upgrade, maint d/or other as sp olished above is	ain, and/or ope pecified in the ch identified by (A	rate traffic cont nart above. A) and/or (B), th	rol signals, inte	rsection flashi
AGENCY will furnish and the ST.  President of the City Council of the City of		ge 1 of 7	.i wiii ilistali tri		v — 03/11/21

Pr July 27, 2023 hardware utilized in the accomplishment of the work. In the event the STATE contributes funds to the work and the MAINTAINING AGENCY will be credited or debited for under-runs or overruns respectively, the "*Exhibit O*" is attached to and made part of this Agreement.

- 3. The equipment and/or associated hardware shall be installed in accordance with the applicable portions of the:
  - A. Manual on Uniform Traffic Control Devices for Streets and Highways (MUTCD), current ALDOT approved edition.
  - B. State of Alabama Project Details and Special and Standard Highway Drawings, current year version.
  - C. National Electrical Code, current edition.
  - D. Alabama Department of Transportation (ALDOT) Standard Specifications for Highway Construction, current edition and applicable special provisions.
  - E. Code of Alabama, 1975 (as Amended) with specific reference to:
    - (1) §23-1-113, Municipal Connecting Link Roads Stipulations and Conditions [specifically sub-paragraphs (6) and (7)].
    - (2) §32-5A-32, Traffic Control signal legend.
    - (3) §32-5A-33, Pedestrian Control signals.
    - (4) §32-5A-34, Flashing signals.
    - (5) §32-5A-35, Lane Direction Control signals.
- 4. The STATE shall determine the quantity of the equipment and/or associated hardware to be utilized in the accomplishment of the work identified by (A) and/or (B) above. In the event the MAINTAINING AGENCY furnishes the equipment and/or associated hardware to be utilized in the accomplishment of the work identified by (A) and/or (B) above, the MAINTAINING AGENCY shall ascertain that the type and quality of the equipment and/or associated hardware is in accordance with the STATE's Materials, Sources, and Devices with Special Acceptance Requirements (APL) as maintained by the STATE's Bureau of Materials and Tests.
- It is the sole responsibility of the MAINTAINING AGENCY to locate and/or relocate any and all utilities in conflict with the installation, upgrade, and/or maintenance of equipment and associated hardware prior to commencing work to install, upgrade, and/or maintain equipment and associated hardware. The MAINTAINING AGENCY will locate and/or relocate such utilities in accordance with all applicable Federal and State laws, regulations, and procedures. Associated utility costs will be at the sole expense of the MAINTAINING AGENCY. In the event utilities are damaged during the installation, upgrade, and/or maintenance of equipment and associated hardware due to failure of the MAINTAINING AGENCY to relocate and/or relocate such utilities, the MAINTAINING AGENCY shall be responsible for providing the funding to pay for any and all associated costs to repair the utilities.
- 6. Title to any and all equipment and/or associated hardware furnished by the STATE shall remain in the STATE and the STATE is deemed to be the sole owner of such equipment and/or hardware.
- 7. The equipment and/or associated hardware shall be operated and maintained at the sole expense of the MAINTAINING AGENCY. The MAINTAINING AGENCY agrees to provide electrical energy on a continuing basis as required, beginning at the time of the initial electrical service connection during the construction of the system. The MAINTAINING AGENCY agrees further to maintain the equipment and/or associated hardware in a good state of repair at all times, as required in

accordance with the applicable documents: Manual on Uniform Traffic Control Devices for Streets and Highways and the Alabama Department of Transportation Standard Specifications for Highway Construction and applicable special provisions. Any traffic control signal equipment and/or associated hardware must also be maintained in accordance with any traffic signal operating plan of the STATE which is in effect at the applicable time of the maintenance. If a malfunction of the equipment and/or associated hardware should ever occur, the MAINTAINING AGENCY shall make or cause to be made any repairs immediately. If a malfunction presents a potential hazard to the motoring public and the MAINTAINING AGENCY is unable to repair the equipment and/or associated hardware in a timely manner as determined by the STATE, the MAINTAINING AGENCY agrees that the STATE reserves the right to and may repair the equipment and/or associated hardware, and invoice the MAINTAINING AGENCY for all costs incurred. The MAINTAINING AGENCY agrees to pay the STATE all such costs incurred by the STATE promptly upon receipt of the invoice from the STATE.

- 7a. In instances where ALDOT maintains a fiber-optic trunk line that is used in conjunction with a closed-loop signal system, the MAINTAINING AGENCY shall maintain the fiber-optic cable from the splice point in the trunk line out to the traffic control equipment.
- 8a. Installation requests made by the MAINTAINING AGENCY and identified on page one as "(A) New Installation" with "Traffic Control Signal" marked must follow the Traffic Signal Warrant and Justification procedure as identified in the Alabama Department of Transportation Traffic Signal Design Guide and Timing Manual, latest edition. For any warrant study/analysis which does not satisfy a traffic signal warrant or warrants, the MAINTAINING AGENCY agrees to accept any and all responsibility for any damage or injury that may be caused by or related to the installation, location, operation, sequencing, and/or maintenance of the equipment and/or associated hardware and shall defend, indemnify, and hold harmless the State of Alabama, the Alabama Department of Transportation, and its agents, servants, employees, in their official or individual capacities and/or facilities from and against all claims, damages, losses and expenses, including but not limited to attorney's fees, arising out of or resulting from the installation, operation, and maintenance of the equipment and/or associated hardware, or any claim, damage, loss, or expense to the person or property caused. A copy of the warrant study/analysis shall be attached to and made part of this Agreement.

### 8b. Check one:

The CITY (Incorporated Municipality)

Subject to the limitations on damages applicable to municipal corporations under Alabama Code § 11-47-190(1975), the CITY shall indemnify and hold harmless the State of Alabama, the Alabama Department of Transportation, its officers, officials, agents, servants, and employees from and against (1) claims, damages, losses, and expenses, including but not limited to attorney's fees arising out of, connected with, resulting from, or related to the work performed by the CITY, or its officers, employees, contracts, agents or assigns (2) the provision of any services or expenditure of funds required, authorized, or undertaken by the CITY pursuant to the terms of this Agreement, or (3) any damage, loss, expense, bodily injury, or death, or injury or destruction or tangible property (other than the work itself), including loss of use therefrom, and including but not limited

to attorney's fees, caused by the willful, negligent, careless, or unskillful acts of the CITY, its agents, servants, representatives, or employees, or the misuse, misappropriation, misapplication, or misexpenditure of any source of funding, compensation, or reimbursement by the CITY, its agents, servants, representatives, or employees, or anyone for whose acts the CITY may be liable.

The COUNTY (County Government or Agency)

The COUNTY shall be responsible at all times for all of the work performed under this agreement and, as provided in Alabama Code § 11-93-2(1975), the COUNTY shall indemnify and hold harmless the State of Alabama, the Alabama Department of Transportation, its officers, officials, agents, servants, and employees.

For all claims not subject to Alabama Code § 11-93-2(1975), the COUNTY shall indemnify and hold harmless the State of Alabama, the Alabama Department of Transportation, its officers, officials, agents, servants, and employees from and against any and all damages, claims, loss, liabilities, attorney's fees or expense whatsoever, or any amount paid in compromise thereof arising out of, connected with, or related to (1) work performed under this Agreement, (2) the provision of any services or expenditure of funds required, authorized, or undertaken by the COUNTY pursuant to the terms of this Agreement, or (3) misuse, misappropriation, misapplication, or misexpenditure of any source of funding, compensation or reimbursement by the COUNTY, its officers, officials, agents, servants, and employees.

The term "hold harmless" includes the obligation of the MAINTAINING AGENCY to pay damages on behalf of the State of Alabama, the Alabama Department of Transportation, and its agents, servants, and/or employees.

- 9. Complete removal of the equipment and/or associated hardware, hereinabove identified by (C), will be at the sole expense of the \_\_\_ STATE \_\_ MAINTAINING AGENCY.
- 10. The STATE reserves the right to demand the removal of the equipment and/or associated hardware should the STATE determine that the signal is no longer required or deem its condition or operation hazardous. Further, the STATE shall have the right to remove the equipment and/or associated hardware should the MAINTAINING AGENCY fail to do so upon demand by the STATE. The MAINTAINING AGENCY agrees to reimburse the STATE for its costs associated with the removal. Any equipment and/or associated hardware which is deemed by the STATE to be non-uniform or obsolete will be removed and disposed of by the MAINTAINING AGENCY. None of the non-uniform or obsolete equipment and/or associated hardware which has been removed shall be reused on the STATE highway system.
- 11. If future traffic conditions require changes and/or adjustments to said equipment and/or associated hardware (other than ordinary timing), the MAINTAINING AGENCY shall obtain the approval of the STATE before such changes are implemented and the STATE shall make a determination on whether a new Agreement is required to be submitted for the UPGRADING, OPERATION, and MAINTENANCE of the new equipment and/or associated hardware. All such changes shall be at the sole cost and expense of the MAINTAINING AGENCY.

- 12. At such time as a warrant study is conducted on an existing signalized intersection and the results differ from the previous warrant study conducted at that signalized intersection, a new Agreement for Installation and/or Operation and/or Maintenance of Traffic Control Signals and/or Roadway Lighting shall be executed with the MAINTAINING AGENCY.
- 13. In the event Federal funds are utilized in the accomplishment of the work hereinbefore described, "Exhibit M" is attached to and made a part of this Agreement.

### 14. FUNDS SHALL NOT BE CONSTITUTED AS A DEBT

It is agreed that the terms and commitments contained herein shall not be construed as a debt of the State of Alabama in violation of Article 11, Section 213 of the <u>Constitution of Alabama, 1901</u>, as amended by Amendment Number 26. It is further agreed that if any provision of this Agreement shall contravene any statute or Constitutional Provision or Amendment, then the conflicting provision in this Agreement shall be deemed null and void.

For any and all disputes arising under the terms of this Agreement, the parties hereto agree, in compliance with the recommendations of the Governor and Attorney General, when considering settlement of such disputes, to utilize appropriate forms of non-binding alternative dispute resolution including, but not limited to, mediation by and through the Attorney General's Office of Administrative Hearings or where appropriate, private mediators.

15. The type and number of signal & pedestrian heads per intersection or roadway lighting hardware are as follows: {Example: 5 – 3 sec, 12", red ball, yellow/green left arrow. OPTION: If plans are available to convey information below, just enter "SEE ATTACHED PLANS".} NOTE – If more space is needed, please use continuation sheets.

SEE ATTACHED PLANS	- CRSA-PE10 (917)	GI .	
<del></del>			
) <del></del>			
TYP	PE OF SIGNAL	C	ONTROLLER
Traffic Control	Pedestrian Control	Make:	Model #:
Flashing	Lane Control	Fixed Time	Two Phase
School Flasher	Railroad Crossing	Semi Actuated	Four Phase
Other:		Full Actuated	Eight Phase
		Other:	
		SYSTEM	YES NO

- 16. In the event the work to be accomplished is identified by (A), (B), and/or (C) and [1] in part or wholly constitutes an interconnected, coordinated, fixed time relationship, signal control operation between two or more intersections (herein referred to as a SYSTEM and hereinabove indicated by the SYSTEM check-box for YES marked in the controller box above), [2] is located within the limits of a SYSTEM, or [3] is within close proximity as to adjoin a SYSTEM, the STATE MAINTAINING AGENCY shall substantiate the work identified by (A), (B), and/or (C) to be SYSTEM compatible.
- 17. By entering into this agreement, the MAINTAINING AGENCY is not an agent of the State, its officers, employees, agents or assigns. The MAINTAINING AGENCY is an independent entity from the State and nothing in this agreement creates an agency relationship between the parties.
- 18. By signing this contract, the contracting parties affirm, for the duration of this agreement, that they will not violate federal immigration law or knowingly employ, hire for employment, or continue to employ an unauthorized alien within the State of Alabama. Furthermore, a contracting party found to be in violation of this provision shall be deemed in breach of this agreement and shall be responsible for all damages resulting there from.

REMAINDER OF PAGE INTENTIONALLY LEFT BLANK. SIGNATURE PAGE TO FOLLOW.

IN WITNESS WHEREOF, the parties hereto have caused this Agreement to be executed by those officers, officials, and persons thereunto duly authorized, and the Agreement is deemed to be dated and to be effective on the date stated hereinafter as the date of the approval of the Region Engineer. (Seal of MAINTAINING AGENCY) Legal Name of MAINTAINING AGENCY (Seal or notary signature) Authorized Signature for MAINTAINING AGENCY Agreement Recommended for approval: **Area Traffic Engineer Signature** STATE OF ALABAMA acting by and through the ALABAMA DEPARTMENT OF TRANSPORTATION The within and foregoing Agreement is hereby approved on this \_\_\_\_\_ day of\_\_\_\_\_. 20\_\_\_\_. RECORDED: APPROVED: By: \_\_\_\_\_ Region Engineer Signature State Traffic Engineer Signature Date: \_\_\_\_\_ (Added to Archive)

Region Tracking Number:		Project Number:	CRSA-PE10 (917)
Region:	NR - Guntersville	County:	MADISON

7/18/90 EXHIBIT M

### **CERTIFICATION**

This certification is applicable to the instrument to which it is attached whether attached directly or indirectly with other attachments to such instrument.

The prospective participant/recipient, by causing the signing of and the submission of this Federal contract, grant, loan, cooperative agreement, or other instrument as might be applicable under Section 1352, Title 31, U.S. Code, and the person signing same for and on behalf of the prospective participant/recipient each respectively certify that to the best of the knowledge and belief of the prospective participant or recipient and of the person signing for and on behalf of the prospective participant/recipient, that:

- (1) No Federal appropriated funds have been paid or will be paid, by or on behalf of the prospective participant/recipient or the person signing on behalf of the prospective participant/recipient as mentioned above, to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.
- (2) If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, or other instrument as might be applicable under Section 1352, Title 31, U.S. Code, the prospective participant/recipient shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by Section 1352, Title 31, U.S. Code. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

The prospective participant/recipient also agrees by submitting this Federal contract, grant, loan, cooperative agreement or other instrument as might be applicable under Section 1352, Title 31, U.S. Code, that the prospective participant/recipient shall require that the language of this certification be included in all lower tier subcontracts, which exceed \$100,000 and that all such sub-recipients shall certify and disclose accordingly.

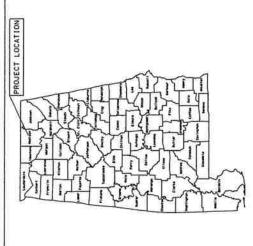
Region Tracking Number:		Project Number: _	CRSA-PE10 (917)
Region:	NR - Guntersville	County:	MADISON

3/31/2000 EXHIBIT O

### **CERTIFICATION**

## FUNDING RATIO FOR THE INSTALLATION OF TRAFFIC CONTROL SIGNALS AND/OR ROADWAY LIGHTING

The Alabama Department of Transportation (he	reinafter re	ferred to	as the	STATE	E) and	the
City of Huntsville	(hereinafi	ter re	ferred	to	as	the
MAINTAINING AGENCY) wishes to install a tr						g at
Huntsville Northern Bypass		, i	This ins	tallatio	n requ	ires
participation by the STATE and the MAINTAINI	NG AGEN	CY in fu	nding the	e install	lation c	ost.
The total estimated cost to install the traffic	control sig	gnal an	d/or roa	dway 1	lighting	g is
with percent funded by	the STAT	E and _	per	cent f	funded	by
the MAINTAINING AGENCY. In the event the	he final inst	tallation	cost is l	ess tha	n the t	otal
estimated cost, the STATE and the OWNER w	ill share in	the cost	t under-	run at	the abo	ove-
mentioned funding ratio and, therefore, the STATE	E will refund	i to the M	IAINTA	INING	AGEN	ICY
percent of the under-run. In the event the fi	inal installati	ion cost e	exceeds 1	he tota	l estima	ated
cost, the STATE and the MAINTAINING AGEN	CY will shar	re in the	cost over	-run at	the abo	ove-
mentioned funding ratio and, therefore, the MAIN	TAINING A	AGENCY	will sub	mit a c	heck to	the
STATE for <b>0</b> percent of the cost over-run.						



LENGTH Existing Bridges (Cuivert) (Remove) INDEX STA TO STA

TSHP 15

₩ 288+22.51 288+44.98 22.47

NONE TOTAL EFFECT

21711 8 8 (1) CD-8'x6' 287+09.09 287+29.99 20.90 (2) CD-8'x6' 287+09.09 287+29.99 LENGTH STA TO STA Required Bridge (Culvert)

21713 (3) CT-8'x5' 355+90.11 356+22.67 32.56 21714

39°49'54" LT AH (EBR)75HP

39°49'54" LT AH (WBR)

21712

37°30'40" LT AH (EBR) 37°30'40" LT AH (WBR)

4 CT-8'x5' 355+90.11 356+22.67

TOTAL EFFECT (EB ONLY)

Begin Work Sto. 195+00.00

Begin Project Sta. 203+00.00

Equations & Exceptions

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3.447

## ALABAMA

585

REFERENCE PROJECT NO. 4514(252) STPHY-PE10(917) 4321 STHVM 100054997-2

Preliminary Project No. Code No.

CONTRACT ID NO 적

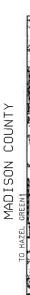
Design Designation

# DEPARTMENT OF TRANSPORTATION

PLANS OF PROPOSED PROJECT NUMBER

HUNTSVILLE NORTHERN BYPASS NHF-STPAAF-4514(252)

BRIDGE CULVERTS, AND BRIDGE CULVERT REMOVAL FROM 1.2 MILES EAST OF CR-86 (PULASKI PIKE) TO 1500' EAST OF SR-1 (US HIGHWAY 431) GRADE, DRAIN, BASE, PAVE, SIGNALS,









These plans have been prepared to conform with the Alabam department of Transportation Standard Specifications for Highway Construction, 2022 Edition,



PREPARED BY:

SARGE SHEETS ONLY





			#120-121C	CUCS
	TRAFFIC IN THE EVENT CONFLICTS OCCUR AND THE MUTO	TRAFFIC SIGNAL PLAN NOTES ONFLICTS OCCUR BETWEEN THE PROJECT TRAFFIC SIGNAL NOTES AND THE MUTCD, THE MUTCD WILL GOVERN.	NOTES THAT APPLY TO THIS PROJECT.	
\$00, WHEN THE CONTROLLER IS IN THE FLASHING WOOD, THE VEHICLIAN SEGONAL TASH YELDOW NO THE MANI STREET, RED ON ALL CROSS STREET, RED ON ALL SALES SHALL BE CRUCHAND SHALL BY	COMPAL HEADS  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  AND  CONTROL  AND  CONTROL  CONTRO	1911, THE TRAFTIC SHOAL POLE LOCATION(9) AS SHOWN IN THE APPROXIMATE. THE COMPACTOR SHALL ACCRETAND THE CHORDING SHOW E FEEL WORTHIC SHALL ASCETTAND THE CONTRACTOR SHALL ASSET BOUNE FEEL SHEEL	SEA. THE CONTRACTOR SHALL NESTAL BACRELATES WITH A 2 MOST FLUORESCENT FILLOW REFLECTIVE GONDER ON ALL EDSTING AND RECOURDS SHALL PLOSS AS A SHORM ON PO PLANS. BACKPLATES ON RECURSION SHALL BE SHALL BE PAD TOR AS A SHORM ON PO 7700. BACKPLATES ON RECURSION SHALL BE SHALL BE PAD TOR AS A SHORM ON PO 7700. BACKPLATES ON RECURSION SHALL BE ADD TOR AS A SHORM ON THE SHALL SHALL WITH WHICH WE HAVE TO BE SHALL BE THE OF THE SHALL SHALL WHITH WHICH WE SHALL BE SHALL WITH WHICH ON THE PROCESSION OF THE PROCESSION OF THE SHALL SHALL WHITH WHICH ON THE SHALL WHITH WHICH ON THE SHALL BESTON OF MERE THE CHANGET THE SHALL MAKE THE CHANGET THE SHALL SHALL BE REQUIRED TO PERFORM A LEAD COLOR.  SASO-AND SHALL HELD CHOCKEN OF RELEVANGE. ANY LOOP FALLING TO READ TO WESS ON BETTER WILL NOT BE ACCEPTED AND SHALL BE FELLACED BY THE CHOOPS SHALL BE RECAUSED TO THE MAKE THE SHALL SHAL	- N C - N C
RD L. CAUDLE, P.E.	600	PLAN S	ENT   SHEET TITLE	ROUTE HUNTSVILLE NORTHERN
APRIL 27 2023	DATE	30		

NOTES THAT APPLY TO THIS PROJECT.	ALL REQUIRED CCTV AND RVD POLES LOCATED BEHIND GUARDRALL SHALL BE A MINIMUM OF FOUR (4) FEET BEHIND BACK OF GUARDRALL POST.  THE CONTRACTOR SHALL CONTINUE THE OPERATION AND MAINTERNACE OF THE EXISTING INVERCONNECT UNTIL THE REQUIRED FIBER OFFIC INTERCONNECT IS FULLY OPERATIONAL.		ENSINE ALL COMPONENTS (INCLUDING, BUT WOT LIMITED TO CARENAS AND CARERA COWINGLS, WEHICLE DETECTION DEVICES MIRELESS DEVICES, ETHERHRY FIELD SWITCHES, DYNAMIC MESSAGE SIGNS, AND VIDEO BRODDERS) ARE COMPATIBLE TO ALDOY'S AUTOMATED TRAFFIC RANGEMENT STEEM (ATMS) AND THAT THEY FUNCTION AS A COMPLETE SYSTEM. ALL STRUCTURES SHALL BE INSTALLED FIREE OF ANY ALL STRUCTURES SHALL BE INSTALLED FIREE OF ANY ALL STRUCTURES SHALL BE INSTALLED FIREE OF ANY AND SHAFTEN OF OTHER APPRIMERSANCES WILL RE ALLOWED		TYPE 1 (OPEN TRENCH) OR TYPE 5 (PRECISTON DIRECTIONAL BORING) METHODS UNLESS OTHERNI DINDICATED ON THE PLANS, TYPE 5 METHOD IS TO RUDERGOUND CONDUITS WILL CONTRAIN FIBER OPTIC CABLES. DETECTABLE MARKING TAPE SHALL BE REQUIRED FOR FIBER OTHE CONTRACTOR SHALL BE AMARE OF THE FOLLIC	ONGOING CONSTRUCTION PROJECTS: THE REQUIRED CCTV CAMERA SHALL BE: CORTES II 4260HD SERIES, P/N #4261-11		CONTRACTOR. CABINET SIZE WITH TRAFFIC SIGNAL CONTRACTOR.	SKIPPER	INN ROAD SI IAM, ALABAN INE: (205)65	lri.	25 21
TRANSPORTATION SYSTEMS (ITS) PLAN NOTES CONFLICTS OCCUR BETWEEN THE ITS PLAN NOTES THE MUTCD, THE MUTCD WILL GOVERN.	1111 CONDUIT EXPANSION JOINTS SHALL BE INSTALLED EVERY 50 FEET MAXIMUM WHERE CONDUIT IS ATTACHED TO BRIDGE 50 FEET MAXIMUM WHERE CONDUIT SAIL OWNAIN TWO (2) 51 FEET MAXIMUM WHERE CONDUITS SHALL CONTAIN TWO (2) 52 FEET MAXIMUM WHERE CONDUITS SHALL	1113 PRECAUTIONS SHALL BE TAKEN TO ENSURE THAT ALL PRECAUTIONS SHALL BE TAKEN TO ENSURE THAT ALL CONDUIT RUNS WE STATING GUARDRAIL, CONTINUENCE OF THE STATING GUARDRAIL, CONTINUENCE THAT ALL STATING GUARDRAIL, CONTINUENCE THE INSTALLATION OF 756-A, UPPHEAVAL IN EXISTING PAVEMENT WILL NOT BE ALLOWED.  1115 ACCESS TO ALL OPEN BUSINESSES SHALL BE MAINTAINED MORENGE THAT ONE THE 756-A CONDUIT WHENE MORENGE THAT ONE ACCESS DRIVE IS ANALIABLE.	1116 ANY TRENCHES REQUIRED FOR CONSTRUCTION SHALL BE BACKFILLED THE SAME DAY.  1117 ANY HOLES EXCAVATED FOR STRUCTURE AND POLE THOUGHNESS SHALL BE SUFFICE FOR THE TWO TO THE THOUGHNESS TO THE TWO THE THOUGHNESS TO THE THE TWO THE THE THOUGHNESS TO THE SHALL BE SUBJECTED BY THE ENGLINEER OTHER SHALL BE SUBJECTED BY THE ENGLINEER OTHER SHALL BE SUBJECTED BY THE ENGLINEER OTHER SHALL BE SHALL BE AND FOLK FORWARTONS.	1118 THE CONTRACTOR SHALL CONNECT EACH FOLE GROUND SYSTEM IMMEDIATELY AFTER THE FOLE HAS BEEN PLACED UNGROUNDED AFTER IT HAS BEEN PLACED ON ITS FOUNDATION.	THE COMMENCES THAT ARE TO BE PLACED ALONG ROADWAYS SHALL HAVE A MINIMUM CLEARANCE OF TRUK (10) FEET FROM THE EDGE OF PARENTEN MINES OF PRINCIPLE NO FAVED SHOULDER IS PRESENT, WILESS OFHERWISE N. PAVED FOUNDER IS PRESENT, WILESS OFHERWISE APPROVED BY THE PROJECT ENGINEER, NO COMPANIES, BRAINAGE AREAS, OR DIAGROD MITHIN SIDEMALKS, SRALES, DRAINAGE AREAS, 1133	THE VERTICAL SEPARATION BETWEEN FIBER CABLE AND ELECTRICAL LINES AT POLE ATTACHENT STALL MEET ALL ROYLSTONS OF THE NATIONAL ELECTRIC SARETY CODE LINES, CURRENT EDITION, REGARDING CLEARANCE FROM ELECTRIC LINES.	1121 AERIAL DROPS SHALL HAVE ADEQUATE SLACK IN THE TRUNK SERVICE LOOP WITH AMELE LENGTH OF THE DROP AS A SHALL ALLO PROPERTY OF THE DEPACTOR OF THE DEPACTOR OF THE ABOVE OF THE AMELIA OF THE SHALL ALLO PROPERTY OF THE ABOVE OF THE AMELIA OF THE SHALL ALLO PROPERTY OF THE AMELIA OF THE TRUCK	1122 REQUIRED STRAPPING OF FIBER OPFIC CABLE TO MESSENGER CABLE SHALL BE STAINLESS STREL LOCATED MAXIMUM FIVE (5) FEET ON CENTER.	1123 THE LOCATION OF REQUIRED COMMBOXES SHALL BE CORDINATED WITH THE ENGINEER PRIOR TO INSTALLATION.	1124 FINAL LOGATION OF REQUIRED CCTV AND RVD POLES SHAML BE APEROVED BY THE ENGINEER PRIOR TO INSTILLATION.	PLAN SUBMITTAL	OF TANKSTONIAN
INTELLIGENT IN THE EVENT OF STATE AND AND	1100 THE LOCATION OF THE POWER SERVICE AS SHOWN IN THE PLANS IS APPROXIMATE. THE CONTRACTOR SHALL DETENTING THE EXACT LOCATION OF THE POWER SERVICE AND THE SHAPTEST ROUTE TO SERVE THE FOWER SERVICE AND DEVICES THE CONTRACTOR SHALL HAVE THE POWER SERVICE LOCATION (S) APPROVED BY THE BUGINEER PRIOR TO INSTALLING POWER SERVICE, BY THE BUGINEER PRIOR	1101 IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COMPACT THE VARIOUS UTLILTY OWNERS ON TIME LOCATION SERVICE TO DETERMINE THE EXACT LOCATION OF ALL EXISTING UTLITIES ON THIS PROJECT, WHETHER SHOWN ON PLANAS ON NOT. DAMAGE TO UTLITIES CAUSED BY THE CONTRACTOR SHALL BE REPAIRED BY THE CONTRACTOR SHALL BE REPAIRED BY THE UTLITY COMPANY AND THE ENGINEER, THE COST OF SUCH REPAIRS SHALL BE BORNE BY THE CONTRACTOR.  1102 THE LOCATION OF ANY REQUIRED COMMBOXES AND/OR	ELECTRICAL/FIRBR CABLE CONDUITS MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER TO PREVENT ANY CONFLICTS  (103) THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRS OF THE CONTRACTOR PARTY. LIGHTING, OR BRIDGE THEMSTS THAT OCCUR DYINGY ET CONSTRUCTION OF THIS BROADET DUE TO HIS OPERATIONS. THE METHOD OF REPAIRS BEING DONE. ANY COST OF SUCH REPAIRS FRICK TO REPAIRS SHALL BE BONNE BY THE CONTRACTOR.	1104 THIS PROJECT SHALL BE LIMITED TO ZERO (0) END-TO-END SPLICES OF THE 3 FTERE XINGLE MODE FIRE OPPIC CABLE AT LOCATIONS SELECTED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER. "END-OF-DAY" CABLE CUTS AND SPLICING ARE NOT PERMITTED.	AT FIBER OPTIC CABLE END-TO-END SPLICE LOCATION(S) AND AT FIBER OPTIC CABLE END-TO-FININ LOCATION(S), THE CONTRACTOR SHALL PROVIDE A COMPLETE FUSION SPLICE INSTALLATION, FUSION SPLICE INSTALLATION SPLICE INSTALLATION SPLICE LOCATION TARY (AND F2 COMMBOX IF CABLE IS BURIED AT SPLICE LOCATION),	CONTRACTOR SHALL PROVIDE ACCURATE 'AS-BUILT' PLAN SET AND SPLICE CHARTS AS PART OF THE PROJECT ACCEPTANCE PROCESS. THE ENGINEER SHALL VERIFY THE ACCURACY OF THE DRAWINGS PRIOR TO ACCEPTANCE.	1107 PRIOR TO INVESTIGATION OF FIRST OFFICE CRABE, THE COMPRACTOR SHALL COORDINATE FIRST ALLOCATIONS MITH FREGINESS. THE CONTRACTOR SHALL MAYE ALL SPLICE CHARGE FIRST OF THE ENGINEER PRIOR TO INSTALLING FIRST OFFICE CRABE. IF THE CONTRACTOR INSTALLS FIRST OFFICE CABLE PRIOR TO THE ENGINEER'S APPROVAL OF SPLICE CHARGE, THE CONTRACTOR SHALL	1108 THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER FOR APPROYAL ALL ANCHORS, MOUNTING BRACKETS, CLAMPS AND STRAPS PRIOR TO ANY INSTALLATION OF PRODUCT.	1109 ALL ANCHORS PLACED IN BRIDGE DECKS SHALL PENETRATE THE DECK A MAXIMUM OF 1-1/4 INCHES.	1110 ALL CONDUIT MOUNTED UNDER THE BRIDGE DECK STALL BE STRAMPED TO THE BRIDGE DECK IN FIVE (5) FEET MAKINDM INTERVALS.	RESPONSIBLE PE: RICHARD L. CAUDLE, P.E. SUPERVISOR: DESIGNER:	DATE: APRIL 27, 2023 DATE: DATE

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STRHV-LR14 2023	ABBREVIATIONS		AMERICAN WIRE GUAGE	CLOSED CIRCUIT TELEVISION CCTV		DYNAMIC MESSAGE SIGN		EMERGENCY VEHICLE PREEMPTION EVP	END ANCHOR	CALVANIZED PIGIO CONDUIT.				INTELLIGENT TRANSPORTATION SYSTEM(S) ITS	JUNCTION BOX	LEFF LT	LIGHT POLE		MILEPOSTNP		PAN TILT ZOOM PTZ		PUBLIC ACCESS CAMERA PAC	PULL BOX			RIGHT OF WAY ROW	BUTION UNIT		STUTHBOUND ROADWAY SUR		TRAFFIC CONTROL CENTER TGC	TRANSPORTATION MANAGEMENT CENTER TWO	TURNOUT TO	VEHICLE DETECTION CAMERA VDC	WESTBOUND ROADWAY WBR				NOT TO SCALF	
		REOUTRED	€	⑤ ♣	ŧ	ŧ	•	<b>‡</b>		ga	*† -	Т	<b>►</b> ○	1	EvP	@	<b>(</b> a)	<b>⊝</b> ■	H		-		配	_	BERJ		BEDLIAED	•	•	1	o N	•	1	(	)					PARTMENT RTATION	2004100
	DUIPMENT	EXISTING	£	4	÷	4	O	Ĵ	195	Z E	<u>†</u> -		⊳⊸	ī - J.	EVP/ →	(B)	<b>©</b>	<u>&amp;</u>	( <u>F</u> )	00	ا ا ، ۵	م ا	PIC	_	⊕ INDICATES SIGNAL HEAD NUMBER:		FXISTING	0	0	ļ	å	Δ	el e	,	6					ALABAMA DEPARTMENT OF TRANSPORTATION	TRACE IP DECICA CECTION
C SIGNAL AND IIS LEGEND	MISCELLANEOUS EQUIPMENT		TRAFFIC SIGNAL HEAD	TRAFFIC SIGNAL HEAD WITH BACKPLATE	PEDESTRIAN SIGNAL HEAD	8 FOOT PEDESTAL POLE AND	PEDESTRIAN STUNAL HEAD	PEDESTAL MOUNTED FLASHING WARNING SIGNAL WITH SIGN	PEDESTAL MOUNTED ILLUMINATED	SCHOOL ZONE SIGN	PUSH BUTTON ASSEMBLY	SPAN/MASTARM MOUNTED SIGN	OMNI DIRECTIONAL ANTENNA	DIRECTIONAL ANTENNA	EMERGENCY VEHICLE PREEMPTION SENSOR	BLANKOUT MESSAGE SIGN	TRAFFIC CONTROL CENTER	HIGHWAY ADVISORY RADIO	HUB BUILDING	DYNAMIC MESSAGE SIGN (OVERHEAD)	DYNAMIC MESSAGE SIGN (RDADSIDE)	DYNAMIC MESSAGE SIGN (CANTILEVER)	DIGITAL RADIO		(NOTE: @ INDICATES	POLES		METAL POLE OR AS SPECIFIED ON PLANS	1	METAL MASTARM POLE	CLASS 3 WOOD SERVICE POLE	WITH DISCONNECT		בספט פכן	LUMINAIRE					PLAN SUBMITTAL	30
I KAFF 10		REDUI PED	BB		F2	Si	[25]	] [5	]	REOUI RED		E DNC	FO		- nt		"	XXX	36			REGULAED			0	ĭ	7777	() ()	((EF	(lea)	C	ы	•	REDUI RED			REGUL RED	FIX	PTZ ◀	DESTONER	
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	ELECTRICAL BOXES		METALLIC PULL BOX	FIBER OPTIC COMMBOX TYPE F1	FIBER OPTIC COMMBOX TYPE F2	TRAFFIC SIGNAL JUNCTION BOX TYPE SI	TRAFFIC SIGNAL JUNCTION BOX TYPE 52	TRAFFIC SIGNAL JUNCTION BOX TYPE S3	CABLE IN CONDUIT		FIBER OPTIC CABLE IN CONDUIT (UNDERGROUND)	FIBER OPTIC CABLE IN CONDUIT (UNDERGROUND WITH CONCRETE)	FIBER OPTIC CABLE IN CONDUIT (BRIDGE ATTACHED)	FIBER OPTIC CABLE (AERIAL INSTALLATION)	INTERCONNECT CABLE IN CONDUIT (UNDERGROUND)			ENCASEMENT	OVERHEAD ELECTRIC	BURIED ELECTRIC	VEHICULAR DETECTORS		PRESENCE LOOP DETECTOR	OR	6'x 6' LOOP DETECTOR	VEHICLE DETECTION CAMERA	DETECTION ZONE	RADAR DETECTION UNIT	RADAR DETECTION UNIT (ADVANCE)	RADAR DETECTION UNIT (PRESENSE)	MAGNETOMETER (SENSOR)	MAGNETOMETER (REPEATER POLE)	CABINETS		H H H H H H H H H H H H H H H H H H H	CAMERAS		CCTV CAMERA, FIXED	CCTV CAMERA, PTZ	RESPONSIBLE PE' RICHARD L. CAUDLE, P. E. SUPERVISORA	

