

RESOLUTION NUMBER 13-011

BE IT RESOLVED, by the City Council of the City of Decatur Alabama, that the City enter into an Agreement with the State of Alabama; acting by and through the Alabama Department of Transportation for:

Signal Maintenance Agreement SR 67 at Various Intersections City of Decatur, Morgan County

Which agreement is before this Council, and that the agreement be executed in the name of the City, by its Mayor, for and on its behalf and that it be attested by the City Clerk and the seal of the City affixed thereto.

BE IT FURTHER RESOLVED, that upon the completion of the execution of the agreement by all parties, that a copy of such agreement be kept on file by the City Clerk.

Passed, Adopted, and approved this 7th day of January, 2013.

ATTESTED:

\_\_\_\_\_  
City Clerk

\_\_\_\_\_  
Mayor

I, the undersigned qualified and acting clerk of the city of Decatur Alabama, do hereby certify that the above and foregoing is a true copy of a resolution lawfully passed and adopted by the City Council of the City named therein, at a regular meeting of such Council meeting held on the \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_\_, and that such resolution is on file in the office of the City Clerk.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the official seal of the City this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_\_.

\_\_\_\_\_  
City Clerk

For Official Use Only: Legal Reference Number: \_\_\_\_\_  
ALDOT Permit Number: \_\_\_\_\_

Division Permit Number: \_\_\_\_\_ Project Number: **NHF-0067(501)**

Division: **2ND** County: **MORGAN**

**STATE OF ALABAMA acting by and through the  
ALABAMA DEPARTMENT OF TRANSPORTATION: PERMIT/AGREEMENT for the  
INSTALLATION and/or MAINTENANCE OF TRAFFIC CONTROL SIGNALS and/or ROADWAY LIGHTING**

This Permit/Agreement, in accordance with resolution number \_\_\_\_\_ dated (or minutes dated) \_\_\_\_\_ attached hereto and made part of this Permit/Agreement, is made and entered into by and between the Alabama Department of Transportation (herein referred to as STATE), the **CITY OF DECATUR** (herein referred to as OWNER), and the [ ☐ applicable ☒ not applicable ] \_\_\_\_\_ (herein referred to as PERMITTEE, if applicable and so indicated) for the accomplishment of the following work as hereinafter indicated by the alphabetic letter of "X" marked in the check-boxes below, to wit:

	(A) New Installation	(B) Equipment Upgrade	(C) Complete Removal	(D) Operation & Maintenance
Traffic Control Signal:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Intersection Flashing Signal/Beacon:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Roadway Lighting:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other: _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

The accomplishment of the work above indicated by the alphabetic letter of "X" marked in the check-boxes above and hereinafter signified by the use of the corresponding alphabetic letter A, B, C, and/or D as applicable, will be at the following location(s): {Example: AL-3/US-31 @ Main Street [A & D] denotes the installation, operation, and maintenance of the equipment installed} **NOTE— if more space is needed, please use continuation sheets.**

**SR-67@various intersections. See continuation sheets and plan sheets at end of packet.**

- In the event the work to be accomplished is herein above identified by (A) and/or (B), the ☐ STATE ☒ OWNER ☐ PERMITTEE will furnish and the ☐ STATE ☐ OWNER ☐ PERMITTEE will install the equipment and/or associated hardware utilized in the accomplishment of the work. In the event the STATE contributes funds to the work and the OWNER will be credited or debited for under-runs or overruns respectively, the "Exhibit O" is attached to and made part of this Permit/Agreement.
- The equipment and/or associated hardware shall be installed in accordance with the applicable following:
  - Manual on Uniform Traffic Control Devices for Streets and Highways (MUTCD), current ALDOT approved edition.
  - The State of Alabama Project Details and Special and Standard Highway Drawings, current year version.
  - The National Electrical Code, current edition.
  - Alabama Department of Transportation (ALDOT) Standard Specifications for Highway Construction, current edition and applicable special provisions.
  - Code of Alabama, 1975 (as Amended) with specific reference to:
    - §23-1-113, Municipal Connecting Link Roads — Stipulations and Conditions [specifically sub-paragraphs (6) and (7)].
    - §32-5A-32, Traffic — Control signal legend.
    - §32-5A-33, Pedestrian — Control signals.
    - §32-5A-34, Flashing signals.
    - §32-5A-35, Lane — Direction — Control signals.

Initials: Owner \_\_\_\_\_, Permittee \_\_\_\_\_, Div. Engineer \_\_\_\_\_, Legal \_\_\_\_\_

3. 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 OWNER or PERMITTEE, as applicable, furnishes the equipment and/or associated hardware to be utilized in the accomplishment of the work identified by (A) and/or (B) above, the OWNER or PERMITTEE, as applicable, 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.
4. Ownership of any and all equipment and/or associated hardware furnished by the STATE shall be transferred to the OWNER upon completion of the work indicated herein.
5. The equipment and/or associated hardware shall be operated and maintained at the sole expense of the OWNER. The OWNER 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 OWNER agrees further to maintain said 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 in accordance with any traffic signal operating plan of the STATE which is in effect at the applicable time of such maintenance. If a malfunction of the equipment and/or associated hardware should ever occur, the OWNER shall effect repairs immediately. If said malfunction presents a potential hazard to the motoring public and the OWNER is unable to repair the equipment and/or associated hardware in a timely manner as determined by the STATE, the STATE reserves the right to repair the equipment and/or associated hardware, and invoice the OWNER for all costs incurred. The OWNER agrees to pay the STATE all such costs incurred by the STATE promptly upon receipt of the invoice from the STATE.
- 5a. In instances where ALDOT maintains a fiber-optic trunk line that is used in conjunction with a closed-loop signal system, the OWNER shall maintain the fiber-optic cable from the splice point in the trunk line out to the traffic control equipment.
6. A. ☐ Unwarranted traffic control signal. (Mark with "X" if applicable in check-box)
- If the installation is identified on page one as (A) "New Installation" or (B) "Equipment Upgrade" with "Traffic Control Signal:" marked, and this installation is requested by a school authority or a local government on behalf of a school authority and the signal is unwarranted as marked above, then upon installation of the equipment and/or associated hardware, the OWNER agrees to accept all responsibility for any injury that may be caused by or related to the installation, location, operation, sequencing, and/or maintenance of the equipment and/or associated hardware.
- B. ☒ Warranted traffic control signal. (Mark with "X" if applicable in check-box)
- If the location identified on page one has "Traffic Control Signal:" marked, and the signal is warranted as marked above, the ☒ OWNER ☐ PERMITTEE (mark with "X" as applicable for the party identified on page one, section 1) 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 of the equipment and/or associated hardware, or any claim, damage, loss, or expense to the person or property caused in whole or in part by the deliberate, wanton, willful, intentional, reckless, or negligent acts or omissions of the OWNER or PERMITTEE, as applicable, anyone employed by the OWNER or PERMITTEE, as applicable, or anyone for whose acts the OWNER or PERMITTEE, as applicable, may be liable.

Additionally, the OWNER shall defend, indemnify, and hold harmless the State of Alabama, the Alabama Department of Transportation, its officers, officials, agents, servants, employees, in both their official and individual capacities, from and against any and all claims, damages, losses, and expenses, including

Initials: Owner \_\_\_\_\_, Permittee \_\_\_\_\_, Div. Engineer \_\_\_\_\_, Legal \_\_\_\_\_

but not limited to attorney's fees, arising out of or resulting from the OWNER'S operation and maintenance of the equipment and/or associated hardware, or any claim, damage, loss or expense to the person or property caused in whole or in part by the deliberate, wanton, willful, intentional, reckless, or negligent acts or omissions of the OWNER, anyone employed by the OWNER, or anyone for whose acts the OWNER may be liable.

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

7. Complete removal of the equipment and/or associated hardware, hereinabove identified by (C), will be at the sole expense of the ☐ STATE ☐ OWNER ☐ PERMITTEE.
8. The STATE reserves the right to demand the removal of the equipment and/or associated hardware should the STATE deem its condition or operation hazardous. Further, the STATE shall have the right to remove the equipment and/or associated hardware should the OWNER fail to do so upon demand by the STATE. 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 OWNER. None of the non-uniform or obsolete equipment and/or associated hardware which has been removed shall be reused on the STATE highway system.
9. If future traffic conditions require changes and/or adjustments to said equipment and/or associated hardware (other than ordinary timing), the OWNER shall obtain the approval of the STATE before such changes are implemented and the STATE shall make a determination on whether a new Permit/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 OWNER.
10. 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 Permit/Agreement.
11. 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 Constitution of Alabama, 1901, as amended by Amendment Number 26. It is further agreed that if any provision of this Permit/Agreement shall contravene any statute of Constitutional Provision or Amendment, be enacted, then the conflicting provision in this Permit/Agreement shall be deemed null and void.

For any and all disputes arising under the terms of this Permit/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.

12. TERMINATION DUE TO INSUFFICIENT FUNDS
  - A. If this Permit/Agreement term is to exceed more than one fiscal year, then said Permit/Agreement is subject to termination in the event that funds should not be appropriated for the continued payment of the Permit/Agreement in subsequent fiscal years.
  - B. In the event of proration of the fund from which payment under this Permit/Agreement is to be made, this Permit/Agreement will be subject to termination.
13. Traffic volume counts, traffic signal warranting criteria, traffic signal diagrams, and final construction plans, as applicable, are attached hereto and made part of this Permit/Agreement.

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14. 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.

As per Project NHF-0067(501)

TYPE OF SIGNAL		CONTROLLER	
<input checked="" type="checkbox"/> Traffic Control	<input type="checkbox"/> Pedestrian Control	Make:	Model #:
<input type="checkbox"/> Flashing	<input type="checkbox"/> Lane Control	<input type="checkbox"/> Fixed Time	<input type="checkbox"/> Two Phase
<input type="checkbox"/> School Flasher	<input type="checkbox"/> Railroad Crossing	<input type="checkbox"/> Semi Actuated	<input type="checkbox"/> Four Phase
<input type="checkbox"/> Other: _____		<input checked="" type="checkbox"/> Full Actuated	<input checked="" type="checkbox"/> Eight Phase
		<input type="checkbox"/> Other: _____	
		SYSTEM <input checked="" type="checkbox"/> YES <input checked="" type="checkbox"/> NO	

15. Distance in feet to the nearest adjacent traffic control signal: NOTE - If this Permit/Agreement covers more than one intersection, please use a continuation sheet.

North \_\_\_\_\_ South \_\_\_\_\_ East \_\_\_\_\_ West \_\_\_\_\_

16. Vertical and horizontal clearances for all traffic control signal equipment and/or associated hardware shall be in accordance with the Manual on Uniform Traffic Control Devices for Streets and Highways and the Alabama Department of Transportation Special and Standard Highway Drawings, current year edition.
17. The cycle length for actuated controllers shall be dictated by traffic actuation of the detectors, with minimum time ratios established from data contained in the traffic volume count. The cycle length and green time for fixed time controllers shall be dictated by the traffic volume count with adjustments when STATE approved.
18. In the event the warranting of the traffic control signal(s) is(are) based on projected traffic volumes developed and generated by a qualified Transportation Engineering Consulting firm using computer programs, data, and methodology noted in the Transportation Research Board's Highway Capacity Manual and the Institute of Transportation Engineers' Trip Generation Handbook, the following shall apply: If after the traffic signal is installed, the actual traffic volumes do not meet the Manual on Uniform Traffic Control Devices for Streets and Highways projected warranting criteria, the STATE reserves the right to demand the removal of the traffic control signal and/or associated hardware from the STATE highway system.
19. In the event the work to be accomplished is hereinbefore 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 ☒ OWNER ☐ PERMITTEE shall substantiate the work identified by (A), (B), and/or (C) to be SYSTEM compatible. Evidence of substantiation shall be submitted to the STATE prior to the execution of this Permit/Agreement and shall include a minimum of three (am peak, pm peak, and off peak) timing plans (cycles, split, and offset combinations) for all phasing sequences with associated time/space diagrams for each intersection location identified hereinbefore by (A), (B), and/or (C) and any immediately adjoining intersection(s) NOT identified hereinbefore but part of a SYSTEM. Said submittals may be computer generated; submittals may include simulation file data. The STATE reserves the right to require the use of any existing timing plan(s) in effect prior to the execution of this Permit/Agreement if the work constitutes an addition to or a part of a SYSTEM; any use of the existing number of timing plans may

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supersede the hereinabove required minimum of three. Submittal data described herein, as applicable, are attached hereto and made a part of this Permit/Agreement.

20. By entering into this agreement, the OWNER and/or PERMITTEE is not an agent of the State, its officers, employees, agents or assigns. The OWNER and/or PERMITTEE is an independent entity from the State and nothing in this agreement creates an agency relationship between the parties.
21. 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 therefrom.

WITNESS WHEREOF, the parties hereto have caused this Permit/Agreement to be executed by those officers, officials, and persons thereunto duly authorized, and the Permit/Agreement is deemed to be dated and to be effective on the date stated hereinafter as the date of the approval of the Maintenance Engineer.

(Seal of OWNER)

Legal Name of PERMITTEE (if applicable)
By: _____ Authorized Signature for PERMITTEE

Legal Name of OWNER

Attest: \_\_\_\_\_  
(Seal or notary signature)

By: \_\_\_\_\_  
Authorized Signature for OWNER

Recommended for approval:

Approved as to form:

By: \_\_\_\_\_  
Division Engineer Signature

By: \_\_\_\_\_  
Jim R. Ippolito, Jr.  
Chief Counsel  
Alabama Department of Transportation

STATE OF ALABAMA acting by and through the ALABAMA DEPARTMENT OF TRANSPORTATION

The within and foregoing Permit/Agreement is hereby approved on this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_.

APPROVED:

By: \_\_\_\_\_  
State Traffic Engineer Signature

By: \_\_\_\_\_  
State Maintenance Engineer Signature

Initials: Owner \_\_\_\_\_, Permittee \_\_\_\_\_, Div. Engineer \_\_\_\_\_, Legal \_\_\_\_\_

The accomplishment of the work indicated by the alphabetic letter X marked in the parenthesis and hereinafter signified by the use of the corresponding alphabetic letter A, B, C, and/or D as applicable, will be at the following location(s):

1. SR 67 @ Veterans Parkway SE
2. SR 67 @ Central Avenue SW
3. SR 67 @ Central Parkway SW
4. SR 67 @ Sandlin Road SW
5. SR 67 @ Spring Avenue SW
6. SR 67 @ Modaus Road SW
7. SR 67 @ Glenn Street SW
8. SR 67 @ Longview Drive SW
9. SR 67 @ Danville Road

Permit Number \_\_\_\_\_

Project Number NHF-0067(501)

Division 2ND

County MORGAN

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.



# TRAFFIC SIGNAL PLAN NOTES IN THE EVENT CONFLICTS OCCUR BETWEEN THE PROJECT TRAFFIC SIGNAL NOTES AND THE MCTCD, THE MCTCD WILL GOVERN.

300. WHEN THE CONTROLLER IS IN THE FLASHING MODE, THE VEHICLE SIGNAL HEADS SHALL FLASH YELLOW ON SR-67 AND ON ALL CROSS STREETS AND RED ON PROTECTED LEFT TURNS.
501. ALL EXISTING TRAFFIC CONTROL EQUIPMENT, TEMPORARY OR PERMANENT, WHICH IS THE PROPERTY OF THE STATE INCLUDING SIGNAL HEADS, CONTROLLERS, COILS, AND VEHICLE HEADS, SHALL BE RECOVERED AND REMOVED TO THE STATE TRAFFIC CONTROL DIVISION, EQUIPMENT SHALL BE STEVED TO COMPLY WITH SECTION 730.03 OF THE STANDARD SPECIFICATIONS.
502. ALL EXISTING TRAFFIC CONTROL EQUIPMENT WHICH IS THE PROPERTY OF THE CITY OF DECATUR INCLUDING SIGNAL HEADS, CONTROLLERS, COILS, AND VEHICLE HEADS, SHALL BE RECOVERED AND REMOVED TO THE CITY TRAFFIC CONTROL DIVISION, EQUIPMENT SHALL BE STEVED TO COMPLY WITH SECTION 730.03 OF THE STANDARD SPECIFICATIONS.
503. THE POWER SOURCE SHOWN ON THE PLANS IS APPROXIMATE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE POWER COMPANY TO OBTAIN THE EXACT LOCATION OF THE POWER SOURCE AND TO PROVIDE THE EXACT LOCATION OF THE POWER SOURCE AND TRAFFIC SIGNAL LUMINAIRES.
504. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE POWER COMPANY TO OBTAIN THE EXACT LOCATION OF THE POWER SOURCE AND TO PROVIDE THE EXACT LOCATION OF THE POWER SOURCE AND TRAFFIC SIGNAL LUMINAIRES.
505. EACH REQUIRED TRAFFIC SIGNAL STRAIN POLE MAY VARY IN HEIGHT. THE CONTRACTOR SHALL MEASURE EACH VEHICLE SIGNAL HEAD TO THE CLEARANCE SHOWN IN THE STANDARD DETAIL. THE CONTRACTOR SHALL PROVIDE EXTENSIONS FOR ADDITIONAL VEHICLE SIGNALS WHEN NECESSARY.
506. EACH VEHICLE SIGNAL HEAD SHALL BE LOCATED IN THE CLEARANCE SHOWN IN THE STANDARD DETAIL. THE CONTRACTOR SHALL PROVIDE EXTENSIONS FOR ADDITIONAL VEHICLE SIGNALS WHEN NECESSARY.
507. THE CONTRACTOR SHALL LOCATE EACH REQUIRED VEHICLE SIGNAL HEAD ON THE (SEEDED) WEST SIDE OF THE STREET. THE CONTRACTOR SHALL PROVIDE EXTENSIONS FOR ADDITIONAL VEHICLE SIGNALS WHEN NECESSARY.
508. FROM THE DATE TIME CHANGE BEGINS THE CONTRACTOR SHALL ASSUME TOTAL RESPONSIBILITY FOR ALL EXISTING TRAFFIC SIGNALS. THE CONTRACTOR SHALL MAINTAIN THE EXISTING TRAFFIC SIGNALS UNTIL THE NEW TRAFFIC SIGNALS ARE INSTALLED AND ACCEPTED BY MCTCD.
509. THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT THE TRAFFIC SIGNALS ARE INSTALLED AS INDICATED ON THE PROJECT PLANS AND IN THE SPECIFICATIONS, ARE COMPLETELY OPERATIONAL, BEFORE REMOVING EXISTING TRAFFIC SIGNAL EQUIPMENT.
510. THE CONTRACTOR, WITHOUT EXTRA COMPENSATION, SHALL BE RESPONSIBLE FOR THE TRAFFIC SIGNALS DURING THE PERIOD OF CONSTRUCTION. MAINTAINING TRAFFIC SIGNALS DURING THE PERIOD OF CONSTRUCTION SHALL INCLUDE THE RELOCATION OF VEHICLE SIGNAL HEADS DURING CONSTRUCTION OF THE CONTINUOUS OPERATION OF THE SIGNAL EQUIPMENT AT ALL TIMES.
511. WHEN EXISTING LOOP WIRE AND VEHICLE LOOP DETECTORS ARE TO BE RETAINED AND REUSED, ON RELOCATED IN A NEW CONTROLLER ASSEMBLY CABINET, THE CONTRACTOR OF EXISTING DETECTORS SHALL BE RESPONSIBLE FOR PROVIDING THE DETECTORS TO THE CONTROLLER CABINET FOR EACH EXISTING DETECTOR APPLICABLE.
512. THE ALABAMA DEPARTMENT OF TRANSPORTATION RESERVES THE RIGHT TO RELOCATE TRAFFIC SIGNALS DURING THE PERIOD OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE TRAFFIC SIGNAL SYSTEM ON UNIT REMAINS IN EFFECT.
513. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE TRAFFIC SIGNALS DURING THE PERIOD OF CONSTRUCTION. MAINTAINING TRAFFIC SIGNALS DURING THE PERIOD OF CONSTRUCTION SHALL INCLUDE THE RELOCATION OF VEHICLE SIGNAL HEADS DURING CONSTRUCTION OF THE CONTINUOUS OPERATION OF THE SIGNAL EQUIPMENT AT ALL TIMES.
514. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE TRAFFIC SIGNALS DURING THE PERIOD OF CONSTRUCTION. MAINTAINING TRAFFIC SIGNALS DURING THE PERIOD OF CONSTRUCTION SHALL INCLUDE THE RELOCATION OF VEHICLE SIGNAL HEADS DURING CONSTRUCTION OF THE CONTINUOUS OPERATION OF THE SIGNAL EQUIPMENT AT ALL TIMES.
515. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE TRAFFIC SIGNALS DURING THE PERIOD OF CONSTRUCTION. MAINTAINING TRAFFIC SIGNALS DURING THE PERIOD OF CONSTRUCTION SHALL INCLUDE THE RELOCATION OF VEHICLE SIGNAL HEADS DURING CONSTRUCTION OF THE CONTINUOUS OPERATION OF THE SIGNAL EQUIPMENT AT ALL TIMES.
516. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE TRAFFIC SIGNALS DURING THE PERIOD OF CONSTRUCTION. MAINTAINING TRAFFIC SIGNALS DURING THE PERIOD OF CONSTRUCTION SHALL INCLUDE THE RELOCATION OF VEHICLE SIGNAL HEADS DURING CONSTRUCTION OF THE CONTINUOUS OPERATION OF THE SIGNAL EQUIPMENT AT ALL TIMES.
517. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE TRAFFIC SIGNALS DURING THE PERIOD OF CONSTRUCTION. MAINTAINING TRAFFIC SIGNALS DURING THE PERIOD OF CONSTRUCTION SHALL INCLUDE THE RELOCATION OF VEHICLE SIGNAL HEADS DURING CONSTRUCTION OF THE CONTINUOUS OPERATION OF THE SIGNAL EQUIPMENT AT ALL TIMES.
518. IN PLACES WHERE THE EXISTING SPAN WIRE HAS BEEN STAGED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING THE WIRE TO THE NEW TRAFFIC SIGNAL HEADS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE TRAFFIC SIGNALS DURING THE PERIOD OF CONSTRUCTION. MAINTAINING TRAFFIC SIGNALS DURING THE PERIOD OF CONSTRUCTION SHALL INCLUDE THE RELOCATION OF VEHICLE SIGNAL HEADS DURING CONSTRUCTION OF THE CONTINUOUS OPERATION OF THE SIGNAL EQUIPMENT AT ALL TIMES.
519. BALANCE ADJUSTERS SHALL BE INSTALLED ON TRAFFIC SIGNAL HEADS AS REQUIRED FOR PROPER OPERATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE TRAFFIC SIGNALS DURING THE PERIOD OF CONSTRUCTION. MAINTAINING TRAFFIC SIGNALS DURING THE PERIOD OF CONSTRUCTION SHALL INCLUDE THE RELOCATION OF VEHICLE SIGNAL HEADS DURING CONSTRUCTION OF THE CONTINUOUS OPERATION OF THE SIGNAL EQUIPMENT AT ALL TIMES.
520. BEFORE CUTTING THE REQUIRED LOOP IN THE PAVEMENT, AN EXISTING LOOP LOCATED IN THAT AREA SHALL BE MARKED AND REMOVED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE TRAFFIC SIGNALS DURING THE PERIOD OF CONSTRUCTION. MAINTAINING TRAFFIC SIGNALS DURING THE PERIOD OF CONSTRUCTION SHALL INCLUDE THE RELOCATION OF VEHICLE SIGNAL HEADS DURING CONSTRUCTION OF THE CONTINUOUS OPERATION OF THE SIGNAL EQUIPMENT AT ALL TIMES.
521. TRAFFIC SIGNALS WHICH ARE TO BE REUSED SHALL BE RELOCATED TO THE NEW TRAFFIC SIGNAL HEADS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE TRAFFIC SIGNALS DURING THE PERIOD OF CONSTRUCTION. MAINTAINING TRAFFIC SIGNALS DURING THE PERIOD OF CONSTRUCTION SHALL INCLUDE THE RELOCATION OF VEHICLE SIGNAL HEADS DURING CONSTRUCTION OF THE CONTINUOUS OPERATION OF THE SIGNAL EQUIPMENT AT ALL TIMES.
522. BUCKPLATES SHALL BE INSTALLED AS REQUIRED ON THE TRAFFIC SIGNAL LAYOUT SHEET.
523. ON ALL LOOPS THE CONTRACTOR SHALL BE REQUIRED TO PERFORM A LEAKAGE TO GROUND TEST USING A MEG-OMMETER WITH 500 VOLTS APPLIED. THE LOOPS SHALL ALSO BE TESTED AFTER THE LEADS HAVE BEEN PULLED TO THE MCTCD. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE TRAFFIC SIGNALS DURING THE PERIOD OF CONSTRUCTION. MAINTAINING TRAFFIC SIGNALS DURING THE PERIOD OF CONSTRUCTION SHALL INCLUDE THE RELOCATION OF VEHICLE SIGNAL HEADS DURING CONSTRUCTION OF THE CONTINUOUS OPERATION OF THE SIGNAL EQUIPMENT AT ALL TIMES.
524. LOOP DETECTOR WIRE SHALL BE ONE CONTINUOUS RUN WITHOUT SPLICES.
525. WHEN PVC CONDUIT IS USED FROM THE CONTROLLER TO THE STREET, STRAIN POLE ON THE CONTROLLER TO THE POLE WITH A 90-DEGREE BEND SHALL BE USED.
526. LAMP USED IN TRAFFIC SIGNAL HEADS SHALL BE LED'S.
527. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE TRAFFIC SIGNALS DURING THE PERIOD OF CONSTRUCTION. MAINTAINING TRAFFIC SIGNALS DURING THE PERIOD OF CONSTRUCTION SHALL INCLUDE THE RELOCATION OF VEHICLE SIGNAL HEADS DURING CONSTRUCTION OF THE CONTINUOUS OPERATION OF THE SIGNAL EQUIPMENT AT ALL TIMES.
528. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE TRAFFIC SIGNALS DURING THE PERIOD OF CONSTRUCTION. MAINTAINING TRAFFIC SIGNALS DURING THE PERIOD OF CONSTRUCTION SHALL INCLUDE THE RELOCATION OF VEHICLE SIGNAL HEADS DURING CONSTRUCTION OF THE CONTINUOUS OPERATION OF THE SIGNAL EQUIPMENT AT ALL TIMES.
529. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE TRAFFIC SIGNALS DURING THE PERIOD OF CONSTRUCTION. MAINTAINING TRAFFIC SIGNALS DURING THE PERIOD OF CONSTRUCTION SHALL INCLUDE THE RELOCATION OF VEHICLE SIGNAL HEADS DURING CONSTRUCTION OF THE CONTINUOUS OPERATION OF THE SIGNAL EQUIPMENT AT ALL TIMES.
530. LOOP DETECTOR WIRE SHALL BE TYPE USE-2-TYPE RHW OR TYPE RHW-2 24-600 V CROSS-LINKED POLYETHYLENE INSULATED CABLE. WIRE SHALL HAVE A MINIMUM OF 18 PERCENT INSULATION THICKNESS OF 0.005 INCH (0.127 MM). THE CABLE SHALL BE MARKED WITH THE WORDS "TRAFFIC SIGNAL" AT 12 INCHES (305 MM) INTERVALS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE TRAFFIC SIGNALS DURING THE PERIOD OF CONSTRUCTION. MAINTAINING TRAFFIC SIGNALS DURING THE PERIOD OF CONSTRUCTION SHALL INCLUDE THE RELOCATION OF VEHICLE SIGNAL HEADS DURING CONSTRUCTION OF THE CONTINUOUS OPERATION OF THE SIGNAL EQUIPMENT AT ALL TIMES.
531. AT THE INTERSECTION OF SR-67 AND DANVILLE, THE LEFT TURN SIGNALS SHALL BE SHIFTED TO LINE-27 AND THE RIGHT TURN SIGNALS SHALL BE SHIFTED TO LINE-28 OVER THE EXISTING THROUGH LANE.

RESPONSIBLE P.E.	SUPERVISOR	DESIGNER	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION	TRAFFIC SIGNAL	ROUTE
DATE:	DATE:	DATE:	P-1-H / PSE	07 TRAFFIC DESIGN	SR-67	

ORIGINAL DATE: 09/02/05  
REVISION DATE: 06/16/10

NOTES THAT APPLY TO THIS PROJECT.

# SUMMARY OF QUANTITIES

REFERENCE PROJECT NO.	FISCAL YEAR	SHEET NO.
HA-100527	2011	3

## REQUIRED TRAFFIC SIGNAL PAY ITEMS (EQUIPMENT)

DESCRIPTION	TRAFFIC SIGNAL POLE FOUNDATION	TRAFFIC SIGNAL POLE	LOOP WIRE	LOOP DETECTOR LEAD-IN CABLE	TRAFFIC SIGNAL JUNCTION BOX	NON-METALLIC CONDUIT 1	NON-METALLIC CONDUIT 2	LUMINAIRE EXTENSION ASSEMBLY 12 FEET	LUMINAIRE EXTENSION ASSEMBLY 15 FEET	VEHICULAR SIGNAL ASSEMBLY 12 INCH 3 TYPE LED	CONTROLLER ASSEMBLY 8 PHASE	MOD POLE	6" ELECTRICAL CONDUIT TYPE 5 INSTALLATION	SPECIAL AND STANDARD DRAWINGS
LOCATION	730E-000	730C-000	730H-001	730I-001	730K-000	730L-003	730L-005	730N-000	730N-010	730P-022	730R-022	730T-000	756A-028	
SR-67 @ VETERANS PKWY SE	EACH	EACH	LIN. FT	LIN. FT	EACH	LIN. FT	LIN. FT	EACH	EACH	EACH	EACH	EACH	LIN. FT	A.B.C.D.E.F.G.H.I
SR-67 @ CENTRAL AVENUE	4	4	2750	3370	7	100	705		4	13	1	1	40	A.B.C.D.E.F.G.H.I
SW and CENTRAL PKWY SW	4	4	2540	3480	6	100	690		4	12	1	1	40	A.B.C.D.E.F.G.H.I
SR-67 @ SANDLIN RD. SW	4	4	2416	4460	8	100	685		4	12	1	1	40	A.B.C.D.E.F.G.H.I
SR-67 @ SPRING AVE. SW	4	4	3520	5100	9	100	750		4	15	1	1	80	A.B.C.D.E.F.G.H.I
SR-67 @ MODAUS RD SW	4	4	2395	2270	6	100	750		4	12	1	1	80	A.B.C.D.E.F.G.H.I
SR-67 @ GLENN ST SW	4	4	2340	2120	7	100	715		4	12	1	1		A.B.C.D.E.F.G.I
SR-67 @ LONGVIEW DR. SW	4	4	5500	4475	8	100	690		4	12	1	1		A.B.C.D.E.F.G.I
SR-67 @ DANVILLE RD										2				
TOTAL	28	28	21461	25275	51	700	5075		28	90	7	7	280	

## REQUIRED TRAFFIC SIGNAL PAY ITEMS

DESCRIPTION	REMOVAL OF EXISTING TRAFFIC CONTROL UNIT	REMOVAL OF EXISTING TRAFFIC CONTROL UNIT	REMOVAL OF EXISTING TRAFFIC CONTROL UNIT	REMOVAL OF EXISTING TRAFFIC CONTROL UNIT	REMOVAL OF EXISTING TRAFFIC CONTROL UNIT	REMOVAL OF EXISTING TRAFFIC CONTROL UNIT	FURNISHING AND INSTALLING TRAFFIC CONTROL UNIT	FURNISHING AND INSTALLING TRAFFIC CONTROL UNIT	FURNISHING AND INSTALLING TRAFFIC CONTROL UNIT	FURNISHING AND INSTALLING TRAFFIC CONTROL UNIT	FURNISHING AND INSTALLING TRAFFIC CONTROL UNIT	FURNISHING AND INSTALLING TRAFFIC CONTROL UNIT	FURNISHING AND INSTALLING TRAFFIC CONTROL UNIT	SPECIAL AND STANDARD DRAWINGS
LOCATION	730A-000	730A-001	730A-002	730A-003	730A-004	730A-005	730C-000	730C-001	730C-002	730C-003	730C-004	730C-005	730C-006	
SR-67 @ VETERANS PKWY SE	1	1	1	1	1	1	1	1	1	1	1	1	1	A.B.C.D.E.F.G.H.I
SR-67 @ CENTRAL AVENUE														A.B.C.D.E.F.G.H.I
SW and CENTRAL PKWY SW														A.B.C.D.E.F.G.H.I
SR-67 @ SANDLIN RD. SW														A.B.C.D.E.F.G.H.I
SR-67 @ SPRING AVE. SW														A.B.C.D.E.F.G.H.I
SR-67 @ MODAUS RD SW														A.B.C.D.E.F.G.H.I
SR-67 @ GLENN ST SW														A.B.C.D.E.F.G.I
SR-67 @ LONGVIEW DR. SW														A.B.C.D.E.F.G.I

### LEGEND

A TSD-730-1
B TSD-730-2
C TSD-730-2A
D TSD-730-4
E TSD-730-10
F TSD-730-11
G TSD-730-13
H TSD-730-14
I TSDP NO. 27

RESPONSIBLE PE	SUPERVISOR	DESIGNER	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION	SHEET TITLE	ROUTE
DATE	DATE	DATE	P-1-H / PSE	D7 TRAFFIC DESIGN	SUMMARY OF QUANTITIES	SR-67

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
NH-F-0067(501)	2012	36

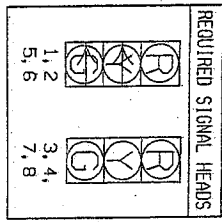
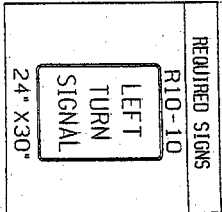
DATE CREATED: JANUARY 30, 2005  
DATE REVISED: FEBRUARY 10, 2005  
DATE REVISSED: APRIL 7, 2008

TRAFFIC SIGNAL LAYOUT  
BELTLINE ROAD SW @ VETERANS DRIVE SE

REFERENCE  
PROJECT NO. 1951  
NHF-0067(00) 2012  
FISCAL  
NO.  
SHEET  
NO. 37

ESTIMATED EQUIPMENT AND MATERIAL SCHEDULE (720-CI)

DESCRIPTION
MISCELLANEOUS HARDWARE
SIGL. R/O-10, WITH ATTACHMENTS
=14 ANG SIGNAL CABLE, INSA 20-1
POWER SOURCE, 120/240 VOL, SINGLE PHASE
BUCKPLATES
8-PHASE, NEWA CONTROLLER AND UPS BATTERY BACKUP



SUPPORTING STRUCTURES

POLE NO. (APPROX.)	STATION	REFERENCE LOCATION	LUMINAIRE ARM EXT. LENGTH (APPROX.)
P1	47 FT	81.5' RT. C.L. SR-67	15 FT
P2	47 FT	59+16.1	15 FT
P3	47 FT	59+56.6	15 FT
P4	47 FT	61+22.2	15 FT

CONDUIT AND CONDUCTOR SCHEDULE

CONDUIT	CONDUCTOR	FROM	TO
1-1"	3 #6 AWG	DISCONNECT	CONTROLLER
1-1"	3 #8 AWG	SIGNAL POLE (LIGHTING)	SIGNAL POLE (LIGHTING)
3-2"	3 #8 AWG	CONTROLLER	POLE NUMBER P1
2"		JUNCTION BOX	JUNCTION BOX
		JUNCTION BOX	SIGNAL POLE
4C #14 AWG INSA 20-1		CONTROLLER	SIGNAL HEAD #1
4C #14 AWG INSA 20-1		CONTROLLER	SIGNAL HEAD #2
4C #14 AWG INSA 20-1		CONTROLLER	SIGNAL HEADS #3
4C #14 AWG INSA 20-1		CONTROLLER	SIGNAL HEADS #4
4C #14 AWG INSA 20-1		CONTROLLER	SIGNAL HEAD #5
4C #14 AWG INSA 20-1		CONTROLLER	SIGNAL HEAD #6
4C #14 AWG INSA 20-1		CONTROLLER	SIGNAL HEADS #7
4C #14 AWG INSA 20-1		CONTROLLER	SIGNAL HEAD #8
2C #12 AWG INSA 50-2		JUNCTION BOX (EACH LOOP)	LOOP BACK TO JUNCTION BOX

- NOTES
1. TRAFFIC SIGNAL OPERATING PLAN NUMBER 27 (INDEX 1002) TO BE USED.
  2. PAVEMENT MARKINGS SHOWN ARE FOR ILLUSTRATIVE PURPOSE ONLY.
- UNLESS OTHERWISE NOTED.

RESPONSIBLE P.E. \_\_\_\_\_ SUPERVISOR \_\_\_\_\_ DATE \_\_\_\_\_ DESIGNER \_\_\_\_\_ DATE \_\_\_\_\_

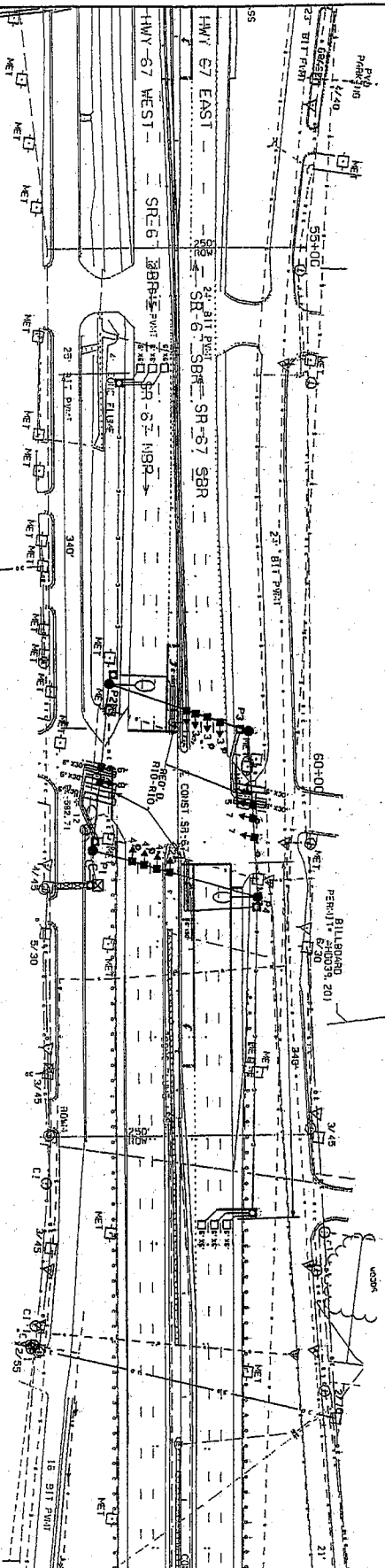
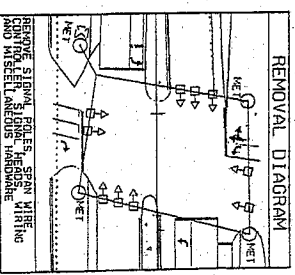
PLAN SUBMITTAL \_\_\_\_\_ PH/PS/E \_\_\_\_\_

ALABAMA DEPARTMENT OF TRANSPORTATION DIVISION OF TRAFFIC DESIGN



HORIZ SCALE 1" = 50' (FEET)

SHEET TITLE TRAFFIC SIGNAL LAYOUT

ROUTE SR-67

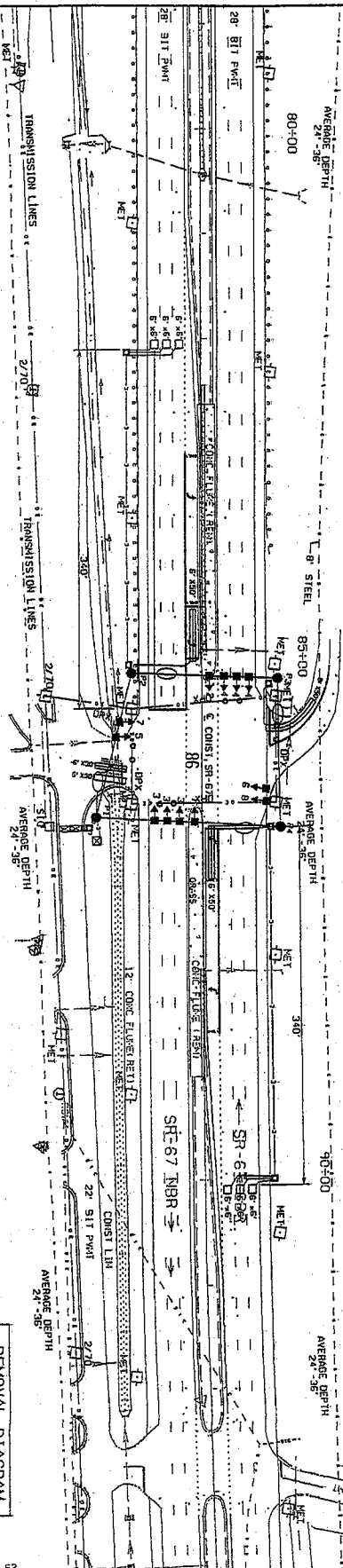


REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
NHIF-0067(501)	2012	37A

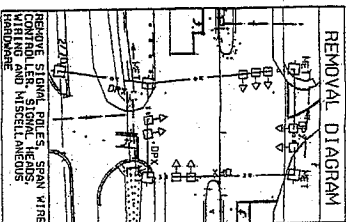
REQUIRED SIGNS	 <p>R10-10 LEFT TURN SIGNAL</p> <p>24" X 30"</p>
REQUIRED SIGNAL HEADS	 <p>1, 2, 5, 6</p> <p>3, 4, 7, 8</p>

SUPPORTING STRUCTURES					
	METAL				
POLE NO.	POLE LENGTH (APPROX.)	STATION	REFERENCE LOCATION	LUMINAIRE ARM EXT LENGTH (APPROX.)	
P1	47 FT	86+54.3	101.8' RT. C.L. SR-67	15 FT	
P2	47 FT	86+51.9	71.8' LT. C.L. SR-67	15 FT	
P3	47 FT	85+21.9	71.8' LT. C.L. SR-67	15 FT	
P4	47 FT	86+61.1	74.4' RT. C.L. SR-67	15 FT	

- NOTES
1. TRAFFIC SIGNAL OPERATING PLAN NUMBER 27 (INDEX 1082) TO BE USED.
  2. PAVEMENT MARKINGS SHOWN ARE FOR ILLUSTRATIVE PURPOSE ONLY UNLESS OTHERWISE NOTED.



ESTIMATED EQUIPMENT AND MATERIAL SCHEDULE (730-C)	DESCRIPTION
MISCELLANEOUS HARDWARE	
SIGN, RIO-10, WITH ATTACHMENTS	
*11 AND SIGNAL CABLE, 1566 20-1	
POWER SOURCE, 120/240 VOL. SINGLE PHASE	
BACKUP LINES	
8-PHASE NEWA CONTROLLER AND UPS BATTERY BACKUP	



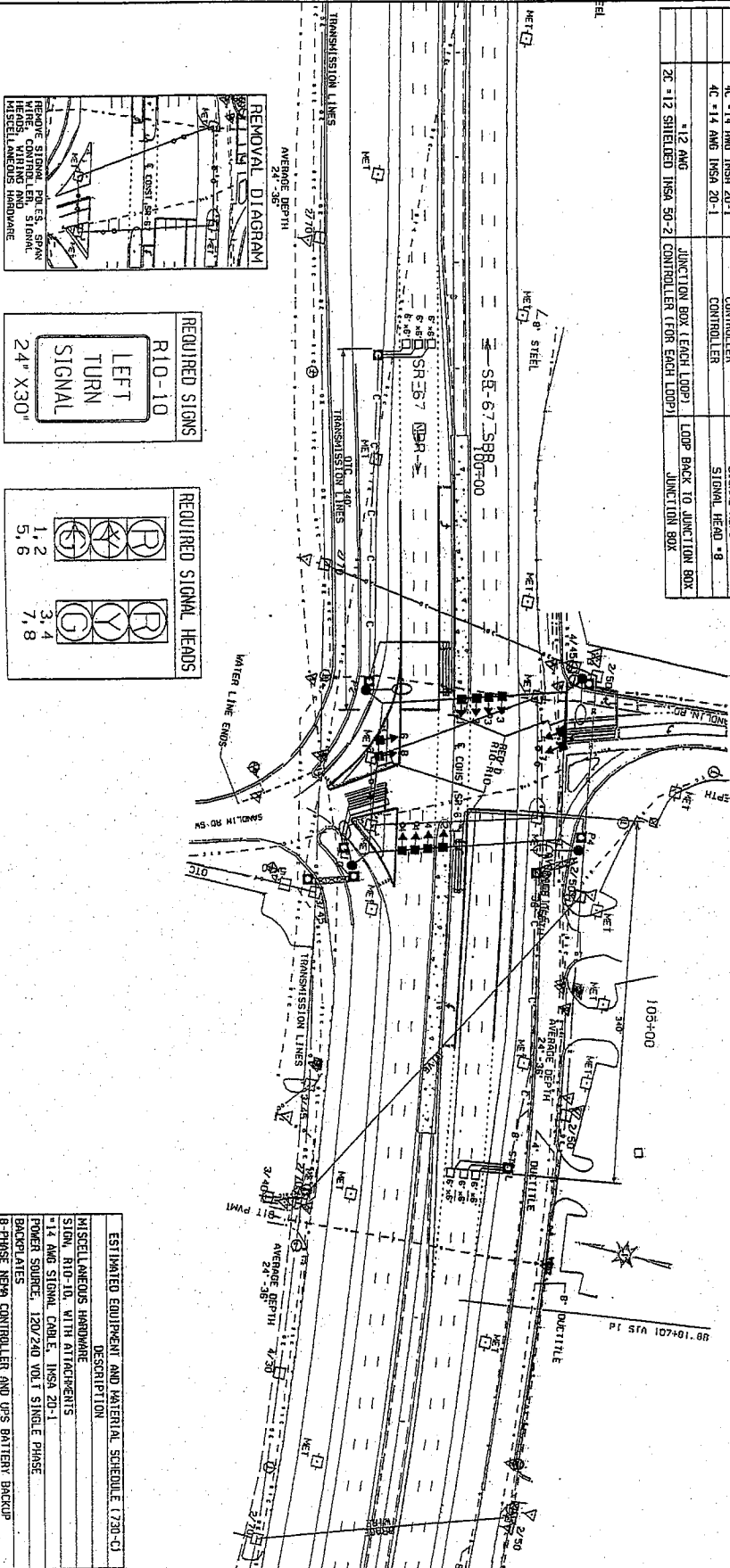
RESPONSIBLE P.E.	SUPERVISOR	DESIGNER	PLAN SUBMITTAL	 <b>ALABAMA DEPARTMENT OF TRANSPORTATION</b> 07 TRAFFIC DESIGN	 SCALE 1" = 50'	SHEET TITLE	ROUTE
DATE	DATE	DATE	PH / PAGE				

TRAFFIC SIGNAL LAYOUT  
BELTLINE ROAD SOUTHWEST @ SANDLIN ROAD SOUTHWEST

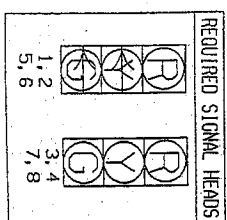
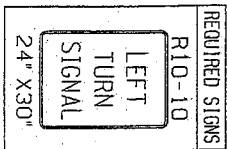
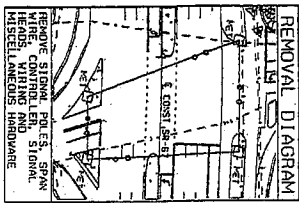
REFERENCE PROJECT NO. YEAR 2002  
SHEET NO. 378

CONDUIT AND CONDUCTOR SCHEDULE			
CONDUIT	FROM	TO	
1-1"	3 # 6 AWG	DISCONNECT	POLE NO. P1 (FOR LIGHTING)
1-1"	3 # 8 AWG	DISCONNECT	POLE NUMBER P1
3-2"		CONTROL BOX	JUNCTION BOX
2"		CONTROL BOX	SIGNAL POLE
2"		CONTROL BOX	SIGNAL HEAD #1
	4C #14 AWG INSA 20-1	CONTROL BOX	SIGNAL HEAD #2
	4C #14 AWG INSA 20-1	CONTROL BOX	SIGNAL HEAD #3
	4C #14 AWG INSA 20-1	CONTROL BOX	SIGNAL HEAD #4
	4C #14 AWG INSA 20-1	CONTROL BOX	SIGNAL HEAD #5
	4C #14 AWG INSA 20-1	CONTROL BOX	SIGNAL HEAD #6
	4C #14 AWG INSA 20-1	CONTROL BOX	SIGNAL HEAD #7
	4C #14 AWG INSA 20-1	CONTROL BOX	SIGNAL HEAD #8
	2C #12 AWG	JUNCTION BOX (EACH LOOP)	LOOP BACK TO JUNCTION BOX
	2C #12 AWG	JUNCTION BOX (FOR EACH LOOP)	JUNCTION BOX

SUPPORTING STRUCTURES			
POLE NO.	POLE LENGTH (APPROX.)	STATION	REFERENCE LOCATION
P1	47 FT	103+75	104.1' FROM C.L. SR-67
P2	47 FT	102+04	84' FROM C.L. SR-67
P3	47 FT	101+92	122' FROM C.L. SR-67
P4	47 FT	103+82	123' FROM C.L. SR-67



RESPONSIBLE PER:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL:	ALABAMA DEPARTMENT OF TRANSPORTATION	DATE:	SCALE:	SHEET TITLE:	ROUTE:
			PH / PSSE	D7 TRAFFIC DESIGN		(1"=100')	TRAFFIC SIGNAL LAYOUT	SR-67



ESTIMATED EQUIPMENT AND MATERIAL SCHEDULE (730-C)	
MISCELLANEOUS HARDWARE	DESCRIPTION
SIGN, R10-10, WITH ATTACHMENTS	
14 AWG SIGNAL CABLE, INSA 20-1	
POWER SOURCE, 120/240 VOLT SINGLE PHASE	
BACKUP BATTERIES	
8-PHASE NEWA CONTROLLER AND UPS BATTERY BACKUP	

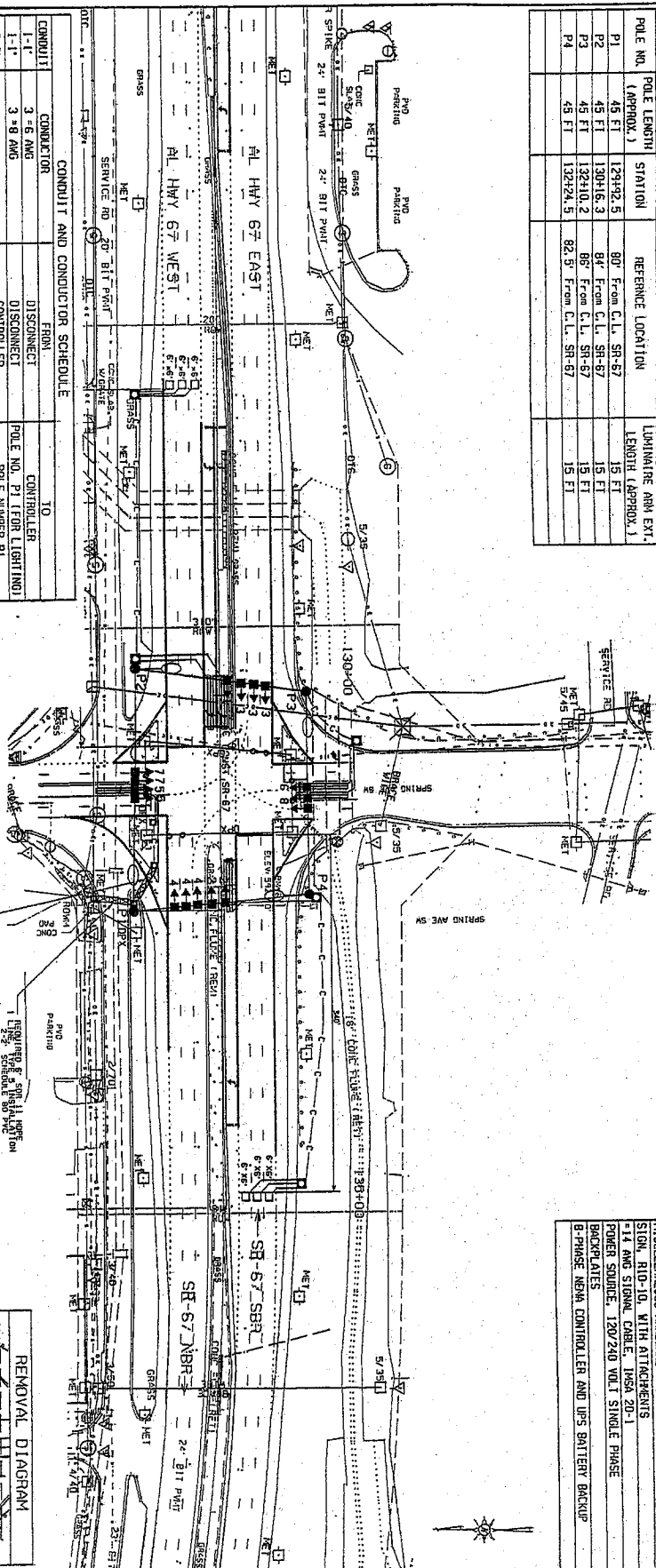
TRAFFIC SIGNAL LAYOUT  
BELTLINE ROAD SOUTHWEST @ SPRING AVENUE SOUTHWEST

SUPPORTING STRUCTURES				
METAL				
POLE NO.	POLE LENGTH (APPROX.)	STATION	REFERENCE LOCATION	LUMINAIRE ARM EXT. LENGTH (APPROX.)
P1	45 FT	12942.5	80' From C.L. SR-67	15 FT
P2	45 FT	13046.5	84' From C.L. SR-67	15 FT
P3	45 FT	13210.2	86' From C.L. SR-67	15 FT
P4	45 FT	13242.5	82.5' From C.L. SR-67	15 FT

REFERENCE PROJECT NO	FISCAL YEAR
NAF-00076501	2012

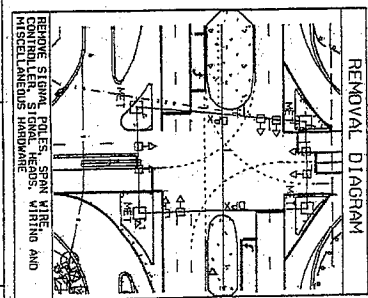
  



ESTIMATED EQUIPMENT AND MATERIAL SCHEDULE (720-CI)
DESCRIPTION
MISCELLANEOUS HARDWARE
SIG. R10-10. WITH AIRCRAFTS
111 AND SIGNAL CABLE. 105A 20-1
POWER SOURCE, 120/240 VOL. SINGLE PHASE
BATTERIES
8-PHASE. NEMA CONTROLLER AND UPS BATTERY BACKUP



CONDUIT AND CONDUCTOR SCHEDULE		TO	
CONDUIT	CONDUCTOR	FIRM	CONDUCTOR
1-1'	3 #6 AWG	DISCONNECT	POLE NO. P1 (FOR LIGHTING)
1-1'	3 #8 AWG	DISCONNECT	POLE NUMBER P1
3-2'		CONTROLLER	JUNCTION BOX
2'		JUNCTION BOX	SIGNAL POLE
2'		JUNCTION BOX	SIGNAL POLE
4C #14 AWG IM56 20-1		CONTROLLER	SIGNAL HEAD #1
4C #14 AWG IM56 20-1		CONTROLLER	SIGNAL HEADS #2
4C #14 AWG IM56 20-1		CONTROLLER	SIGNAL HEADS #3
4C #14 AWG IM56 20-1		CONTROLLER	SIGNAL HEADS #4
4C #14 AWG IM56 20-1		CONTROLLER	SIGNAL HEADS #5
4C #14 AWG IM56 20-1		CONTROLLER	SIGNAL HEAD #6
4C #14 AWG IM56 20-1		CONTROLLER	SIGNAL HEADS #7
4C #14 AWG IM56 20-1		CONTROLLER	SIGNAL HEAD #8
2C #12 SHIELDED IM56 50-2		JUNCTION BOX (EACH LOOP)	LOOP BACK TO JUNCTION BOX
2C #12 SHIELDED IM56 50-2		CONTROLLER (FOR EACH LOOP)	JUNCTION BOX

REQUIRED SIGNAL HEADS	REQUIRED SIGNALS
 1, 2 5, 8	 3, 4, 6, 7
	R10-10  24" X30"



RESPONSIBLE P.E.	SUPERVISOR	DESIGNER	PLAN SHEET NO.	 ALABAMA DEPARTMENT OF TRANSPORTATION D7 TRAFFIC DESIGN	 SCALE (FEET)	SHEET TITLE	ROUTE
DATE	DATE	PIR / PSR	TRAFFIC SIGNAL LAYOUT				

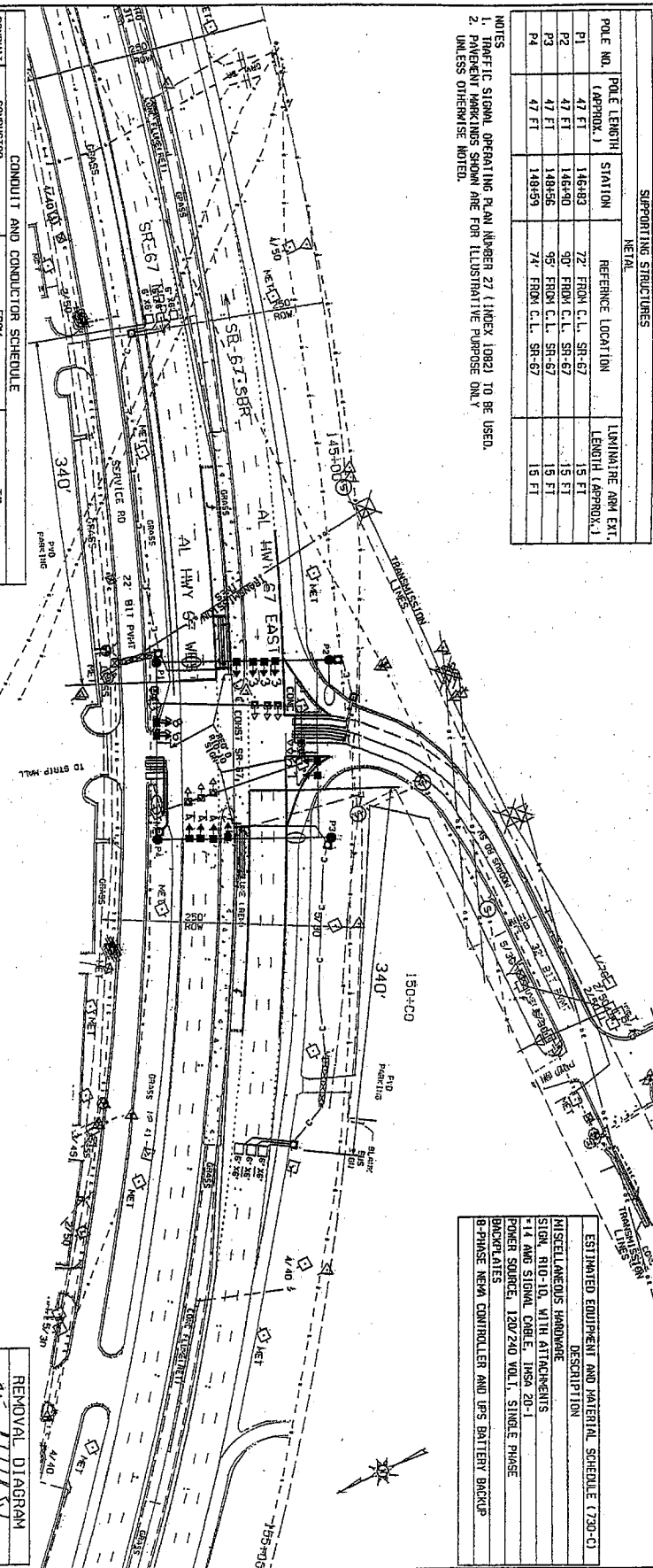
TRAFFIC SIGNAL LAYOUT  
BELTLINE ROAD SW @ MODAUS ROAD

REFERENCE PROJECT NO. YEAR  
FISCAL YEAR  
SHEET NO.  
NIP-0057501 2012 370

SUPPORTING STRUCTURES		
POLE NO.	STATION	REFERENCE LOCATION
P1	146+83	72' FROM C.L. SR-67
P2	146+90	90' FROM C.L. SR-67
P3	148+56	95' FROM C.L. SR-67
P4	148+59	74' FROM C.L. SR-67

- NOTES:  
1. SPECIFIC SIGNAL OPERATING PLAN NUMBER 27 (INDEX 1082) TO BE USED.  
2. DIMENSION MARKINGS SHOWN ARE FOR ILLUSTRATIVE PURPOSE ONLY.  
UNLESS OTHERWISE NOTED.

ESTIMATED EQUIPMENT AND MATERIAL SCHEDULE (720-C)	
DESCRIPTION	QUANTITY
MISCELLANEOUS HARDWARE	
SIGNAL, R10-10, WITH ATTACHMENTS	1
14 AND SIGNAL CABLE, INSEA 20-1	1
POWER SOURCE, 120/240 VOLT, SINGLE PHASE	1
BACKUP BATTERIES	1
8-PHASE NEWA CONTROLLER AND UPS BATTERY BACKUP	1



CONDUIT AND CONDUCTOR SCHEDULE			
CONDUIT	FROM	TO	CONDUCTOR
1-1"	3 #6 AWG	DISCONNECT	POLE NO. P1 (FOR LIGHTING)
1-1"	3 #8 AWG	DISCONNECT	SIGNAL POLE (LIGHTING)
3-2"	3 #8 AWG	CONTROLLER	POLE NUMBER P1
2	CONTROLLER	JUNCTION BOX	SIGNAL POLE
4C #14 AWG INSEA 20-1	CONTROLLER	SIGNAL HEAD #1	
4C #14 AWG INSEA 20-1	CONTROLLER	SIGNAL HEAD #2	
4C #14 AWG INSEA 20-1	CONTROLLER	SIGNAL HEAD #3	
4C #14 AWG INSEA 20-1	CONTROLLER	SIGNAL HEAD #4	
4C #14 AWG INSEA 20-1	CONTROLLER	SIGNAL HEAD #5	
4C #14 AWG INSEA 20-1	CONTROLLER	SIGNAL HEAD #6	
4C #14 AWG INSEA 20-1	CONTROLLER	SIGNAL HEAD #7	
4C #14 AWG INSEA 20-1	CONTROLLER	SIGNAL HEAD #8	
2C #12 SHIELDED INSEA 50-2	JUNCTION BOX (EACH LOOP)	LOOP BACK TO JUNCTION BOX	JUNCTION BOX

REQUIRED SIGNS

R10-10

LEFT TURN SIGNAL

24" X 30"

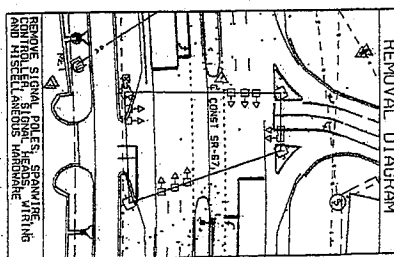
REQUIRED SIGNAL HEADS

1, 2

5, 6

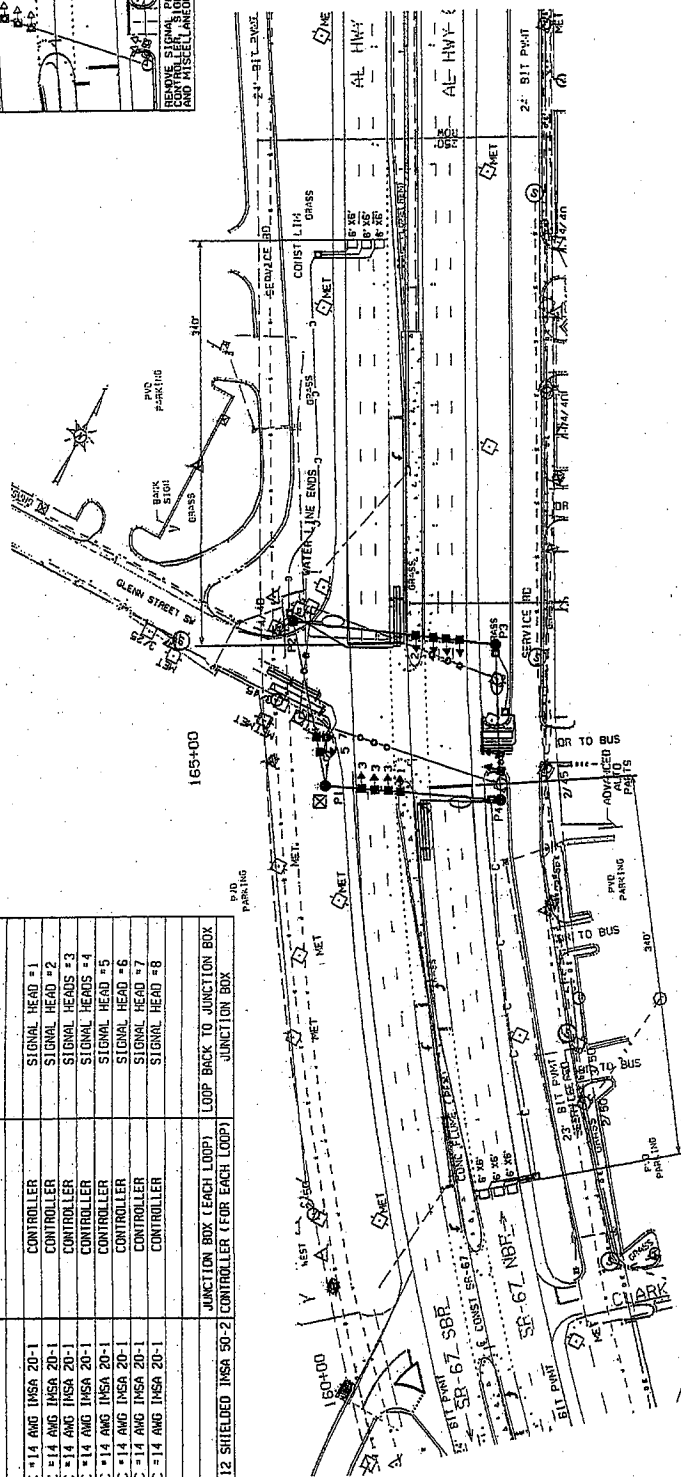
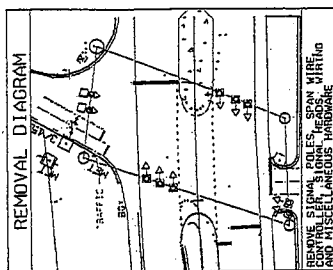
3, 4

7, 8



RESPONSIBLE PEI	SUPERVISOR	DESIGNER	PLUM SUBMITTAL	PIH / FSLE	ALABAMA DEPARTMENT OF TRANSPORTATION	07 TRAFFIC DESIGN	HORIZ	SCALE (FEET)	SHEET TITLE	ROUTE
DATE	DATE	DATE							TRAFFIC SIGNAL LAYOUT	SR-67

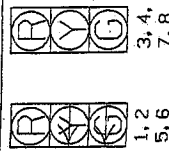


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## REQUIRED SIGNS



**REQUIRED SIGNAL HEADS**




ESTIMATED EQUIPMENT AND MATERIAL SCHEDULE (730-C)	DESCRIPTION
	MISCELLANEOUS HARDWARE
	SIGNAL, RIO-10, WITH ATTACHMENTS
	14 AND SIGNAL CABLE, INSA 20-1
	POWER SOURCE, 120/240 VOLT SINGLE PHASE
	BACKPLATES
	8-PHASE NEMA CONTROLLER AND UPS BATTERY BACKUP

SUPPORTING STRUCTURES			METAL		LUMINAIRE ARM EXT. LENGTH (APPROX.)
POLE NO.	POLE LENGTH (APPROX.)	STATION	REFERENCE	LOCATION	
P1	47 FT	164482	75'	FROM C.L. SR-67	15 FT
P2	47 FT	164490	97'	FROM C.L. SR-67	15 FT
P3	47 FT	165499	102.5'	FROM C.L. SR-67	15 FT
P4	47 FT	164461	75'	FROM C.L. SR-67	15 FT

NOTES

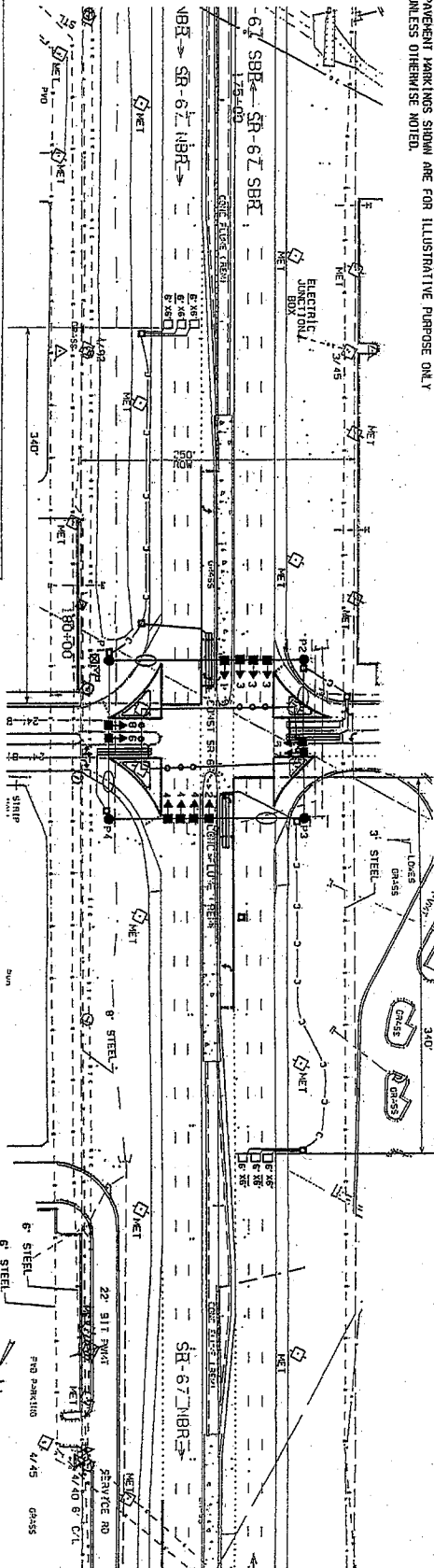
1. TRAFFIC SIGNAL OPERATING PLAN NUMBER 27 (INDEX 1082) TO BE USED.
2. PAVEMENT MARKINGS SHOWN ARE FOR ILLUSTRATIVE PURPOSE ONLY UNLESS OTHERWISE NOTED.

RESPONSIBLE PEI	SUPERVISOR:	DESIGNER:	PLANS SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION	SCALE (FEET)	SHEET TITLE	ROUTE
DATE:	DATE:	DATE:	P111 / P13E		HORIZ	TRAFFIC SIGNAL LAYOUT	SR-67

TRAFFIC SIGNAL LAYOUT  
BELTLINE RD. SW @ LONGVIEW DR. SW

SUPPORTING STRUCTURES			
METAL			
POLE NO. (APPROX.)	STATION	REFERENCE LOCATION	LIMITING ARM EXT. LENGTH (APPROX.)
P1	47 FT	99.4' FROM C.L. SR-67	18 FT
P2	47 FT	78.5' FROM C.L. SR-67	18 FT
P3	47 FT	78.5' FROM C.L. SR-67	18 FT
P4	47 FT	99.4' FROM C.L. SR-67	18 FT

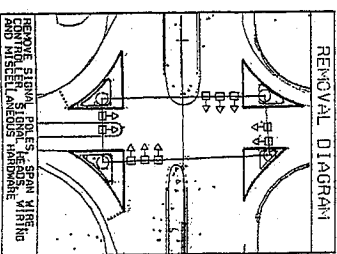
- NOTES  
1. TRAFFIC SIGNAL OPERATING PLAN NUMBER 27 (INDEX 1082) TO BE USED.  
2. PAVEMENT MARKINGS SHOWN ARE FOR ILLUSTRATIVE PURPOSE ONLY  
UNLESS OTHERWISE NOTED.



CONDUIT AND CONDUCTOR SCHEDULE			
CONDUIT	CONDUCTOR	FROM	TO
1-1"	3 #6 AWG	DISCONNECT	CONTROLLER
1-1"	3 #8 AWG	SIGNAL POLE (LIGHTING)	POLE NO. P1 (FOR LIGHTING)
3-2"	3 #8 AWG	CONTROLLER	POLE NUMBER P1
2"		JUNCTION BOX	JUNCTION BOX
4C #14 AWG INSA 20-1		CONTROLLER	SIGNAL HEAD #1
4C #14 AWG INSA 20-1		CONTROLLER	SIGNAL HEAD #2
4C #14 AWG INSA 20-1		CONTROLLER	SIGNAL HEAD #3
4C #14 AWG INSA 20-1		CONTROLLER	SIGNAL HEAD #4
4C #14 AWG INSA 20-1		CONTROLLER	SIGNAL HEAD #5
4C #14 AWG INSA 20-1		CONTROLLER	SIGNAL HEAD #6
4C #14 AWG INSA 20-1		CONTROLLER	SIGNAL HEAD #7
4C #14 AWG INSA 20-1		CONTROLLER	SIGNAL HEAD #8
2C #12 AWG SHIELDED INSA 50-2		JUNCTION BOX (FOR EACH LOOP)	LOOP BACK TO JUNCTION BOX
		CONTROLLER (FOR EACH LOOP)	JUNCTION BOX

REQUIRED SIGNS  
R10-10  
LEFT TURN SIGNAL  
24" X30"

REQUIRED SIGNAL HEADS  
1, 2, 5, 6  
3, 4, 7, 8



ESTIMATED EQUIPMENT AND MATERIAL SCHEDULE (730-C)			
DESCRIPTION			
MISCELLANEOUS HARDWARE			
SIGN, R10-10, WITH ATTACHMENTS			
#14 AWG SIGNAL CABLE, INSA 20-1			
POWER SOURCE, 120/240 VOLT SINGLE PHASE			
BATTERIES			
B-PHASE MECH. CONTROLLER AND UPS BATTERY BACKUP			

RESPONSIBLE PEI	SUPERVISOR	DESIGNER	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION	HORIZ	SCALE	SHEET TITLE	ROUTE
DATE:	DATE:	DATE:	P1H / P2SE	D7 TRAFFIC DESIGN	50 0 50	(FEET)	TRAFFIC SIGNAL LAYOUT	SR-67