

# CITY OF MOBILE

## BID SHEET

This is Not an Order

**Mailing Address:**  
 P. O. Box 1948  
 Mobile, Alabama 36633  
 (251) 208-7434

**Purchasing Department  
 and Package Delivery:**  
 Government Plaza  
 4<sup>th</sup> Floor, Room S-408  
 205 Government St  
 Mobile, Alabama 36644

**READ TERMS AND CONDITIONS  
 ON REVERSE SIDE OF THIS PAGE  
 BEFORE BIDDING**

Typed by: mns Buyer: 004

**Please quote the lowest price at which you will furnish the articles listed below**

DATE	BID NO.	DEPARTMENT	Commodities to be delivered F.O.B. Mobile to:
11/26/2019	5357	VARIOUS	As Specified

**This bid must be received and stamped by the Purchasing office not later than: 10:30 AM, Thursday, December 19, 2019**

QUANTITY	ARTICLES	UNIT	UNIT PRICE		EXTENSION	
			Dollars	Cents	Dollars	Cents
<b>TRAFFIC POLES</b>						
Traffic Poles as per the following and attached specifications.						
<b>FLUTED POLES:</b>						
<b>Metal Traffic Signal Pole with Mast Arm Assembly.</b>						
Qty 1	(1.) Metal 17' Traffic Signal Pole with 1-35' Mast Arm Assembly  Make _____ Model _____					
Qty 3	(2.) Metal 30' Traffic Signal Pole with 1-35' Mast Arm Assembly  Make _____ Model _____					
Qty 2	(3.) Metal 30' Traffic Signal Pole with 1-40' Mast Arm Assembly  Make _____ Model _____					
Qty 2	(4.) Metal 30' Traffic Signal Pole with 1-45' Mast Arm Assembly  Make _____ Model _____					
			<b>TOTAL</b>			

**RETURN ONE SIGNED COPY OF THIS BID  
 IN ENCLOSED ENVELOPE**

State delivery time within \_\_\_\_\_ days of receipt of P.O.

Firm Name \_\_\_\_\_

Typed Signature \_\_\_\_\_

By \_\_\_\_\_

We will allow a discount \_\_\_\_\_% 20 days from date of receipt of goods and correct invoice of completed order.

1. All quotations must be signed with the firm name and by an authorized officer or employee.
2. Verify your bid before submission as it cannot be withdrawn or corrected after being opened. In case of error in extension of prices, the unit price will govern.
3. If you do not bid, return this sheet and state reason. Otherwise, your name may be removed from our mailing list.
4. The right is reserved to reject any, or all quotations, or any portions thereof, and to waive technicalities if deemed to be in the interest of the City of Mobile.
5. This bid shall not be reassignable except by written approval of the Purchasing Agent of the City of Mobile.
6. State brand and model number of each item. All items bid must be new and latest model unless otherwise specified.
7. If bid results are desired, enclose a self-addressed and stamped envelope with your bid. (All or None bids only)
8. Do not include Federal Excise Tax as exemption certificate will be issued in lieu of same. The City is exempt from the Alabama and City sales taxes.
9. PRICES ARE TO BE FIRM AND F.O.B. DESTINATION UNLESS OTHERWISE REQUESTED.
10. BID WILL BE AWARDED ON ALL OR NONE BASIS UNLESS OTHERWISE STATED.
11. Bids received after specified time will be returned un-opened.
12. Failure to observe stated instructions and conditions will constitute grounds for rejection of your bid.
13. Furnish literature, specifications, drawings, photographs, etc., as applicable with the items bid.
14. Vendor May be required to obtain City of Mobile Business License as applicable to City of Mobile Municipal Code Section 34-50. For Business License inquiry contact the Revenue Department at (251) 208-7461 or [cityofmobile.org/taxes.php](http://cityofmobile.org/taxes.php).
15. If a bid bond is required in the published specifications, see below:  
Each Bid Shall be Accompanied By A **Cashier's Check, Certified Check, Bank Draft Or Bid Bond** For the Sum Of Five (5) Percent Of The Amount Bid, Made Payable To The City Of Mobile And Certified By A Reputable Banking Institution. All Checks Shall Be Returned Promptly, Except The Check Of The Successful Bidder, Which Shall Be Returned After Fulfilling The Bid.
16. Contracts in excess of \$50,000 require that the successful bidder make every possible effort to have at least fifteen (15) percent of the total value of the contract performed by socially and economically disadvantaged individuals.
17. All bids/bid envelopes must have the bid number noted on the front. Bids that arrive unmarked and are opened in error shall be returned to vendor as an unacceptable bid.
18. If successful vendor's principal place of business is out-of-state, vendor may be required to have a Certificate of Authority to do business in the State of Alabama from the Alabama Secretary of State prior to issuance of a Purchase Order. Vendors are solely responsible for consulting with the Secretary of State to determine whether a Certificate is required. See [www.sos.alabama.gov/BusinessServices/ForeignCorps.aspx](http://www.sos.alabama.gov/BusinessServices/ForeignCorps.aspx) . Please note that the time between application for and issuance of a Certificate of Authority may be several weeks.
19. Vendors do not need a City of Mobile Business License or Certificate of Authority from the Alabama Secretary of State to submit a bid, but will need to obtain the Business License and Certificate of Authority, if applicable, prior to issuance of a Purchase Order.

# BID CONTINUATION SHEET

QUANTITY	ARTICLES	UNIT	UNIT PRICE		EXTENSION	
			Dollars	Cents	Dollars	Cents
Page 2 of 13						
Qty 1	(5.) Metal 30' Traffic Signal Pole with 1-50' Mast Arm Assembly  Make _____ Model _____					
Qty 3	(6.) Metal 30' Traffic Signal Pole with 1-55' Mast Arm Assembly  Make _____ Model _____					
Qty 4	(7.) Metal 30' Traffic Signal Pole with 1-60' Mast Arm Assembly  Make _____ Model _____					
Qty 1	(8.) Metal 30' Traffic Signal Pole with 1-65' Mast Arm Assembly  Make _____ Model _____					
Qty 1	(9.) Metal 30' Traffic Signal Pole with 1-40' and 1-35' Mast Arm Assembly  Make _____ Model _____					
Qty 1	(10.) Metal 30' Traffic Signal Pole with 1-45' and 1-30' Mast Arm Assembly  Make _____ Model _____					
Qty 1	(11.) Metal 30' Traffic Signal Pole with 1-35' and 1-65' Mast Arm Assembly  Make _____ Model _____					
1	(12.) Metal 30' Traffic Signal Pole with 1-25' and 1-50' Mast Arm Assembly  Make _____ Model _____					
Qty 1	(13.) Metal 30' Traffic Signal Pole with 1-45' and 1-55' Mast Arm Assembly  Make _____ Model _____					
			<b>TOTAL</b>			

RETURN ONE SIGNED COPY OF THIS QUOTATION  
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READ ABOVE INSTRUCTIONS BEFORE QUOTING

Firm Name \_\_\_\_\_

By \_\_\_\_\_

We will allow a discount \_\_\_\_\_ % 20 days from date of receipt of goods  
and correct invoice of completed order.

**BID CONTINUATION SHEET**

QUANTITY	ARTICLES	UNIT	UNIT PRICE		EXTENSION		
			Dollars	Cents	Dollars	Cents	
	Page 3 of 13						
Qty 1	(14.) Metal 30' Traffic Signal Pole with 1-55' and 1-55' Mast Arm Assembly  Make _____ Model _____  <b>Metal Traffic Signal Pole.</b>						
Qty 11	(15.) Metal 30' Traffic Signal Pole  Make _____ Model _____  <b>Pedestal Pole.</b>						
Qty 19	(16.) Pedestrian 8' Pedestal Pole  Make _____ Model _____						
Qty 2	(17.) School Flasher 14' Pedestal Pole  Make _____ Model _____						
	<b>ALTERNATE BID – SMOOTH TAPERED POLES:</b>						
	<b>Metal Traffic Signal Pole with Mast Arm Assembly.</b>						
Qty 1	(1.) Metal 17' Traffic Signal Pole with 1-35' Mast Arm Assembly  Make _____ Model _____						
Qty 3	(2.) Metal 30' Traffic Signal Pole with 1-35' Mast Arm Assembly  Make _____ Model _____						
Qty 2	(3.) Metal 30' Traffic Signal Pole with 1-40' Mast Arm Assembly  Make _____ Model _____						
Qty 2	(4.) Metal 30' Traffic Signal Pole with 1-45' Mast Arm Assembly  Make _____ Model _____						
			<b>TOTAL</b>				

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			Dollars	Cents	Dollars	Cents
Page 4 of 13						
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Qty 1	(12.) Metal 30' Traffic Signal Pole with 1-25' and 1-50' Mast Arm Assembly Make _____ Model _____					
Qty 1	(13.) Metal 30' Traffic Signal Pole with 1-45' and 1-55' Mast Arm Assembly Make _____ Model _____					
			<b>TOTAL</b>			

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			Dollars	Cents	Dollars	Cents
	Page 5 of 13					
Qty 1	(14.) Metal 30' Traffic Signal Pole with 1-55' and 1-55' Mast Arm Assembly  Make _____ Model _____  <b>Metal Traffic Signal Pole.</b>					
Qty 11	(15.) Metal 30' Traffic Signal Pole  Make _____ Model _____  <b>Pedestal Pole.</b>					
Qty 19	(16.) Pedestrian 8' Pedestal Pole  Make _____ Model _____					
Qty 2	(17.) School Flasher 14' Pedestal Pole  Make _____ Model _____  Please observe instructions on Reverse side.  All substitutions must be indicated on your bid.  Please quote your prices in the unit specified in the bid.  Go to <a href="https://www.cityofmobile.org/bids/?id=1891">https://www.cityofmobile.org/bids/?id=1891</a> for Bid #5357 for pdf file of drawings.  All prices to be delivered pricing, FOB Mobile.  Upon award the City will purchase fluted poles as specified or alternate smooth tapered poles.  All vendors will be required to provide verification of enrollment in the E-Verify program. Additional information may be found at <a href="http://immigration.alabama.gov/">http://immigration.alabama.gov/</a>					
			<b>TOTAL</b>			

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QUANTITY	ARTICLES	UNIT	UNIT PRICE		EXTENSION	
			Dollars	Cents	Dollars	Cents
	<p align="center">Page 6 of 13</p> <p>If the successful vendor's principal place of business is out-of-state, vendor may be required to have a Certificate of Authority to do business in the State of Alabama from the Secretary of State prior to issuance of a Purchase Order.</p> <p>Vendors are solely responsible for consulting with the Secretary of State to determine whether a Certificate is required. See: <a href="http://www.sos.alabama.gov/BusinessServices/ForeignCorps.aspx">www.sos.alabama.gov/BusinessServices/ForeignCorps.aspx</a>.</p> <p>Please note that the time between application for the issuance of a Certificate of Authority may be several weeks.</p> <p>Upon notification, vendor will have 10 business days to provide the Certificate of Authority and the E-Verify numbers to the Purchasing Department before award can be completed. (Vendors will possibly need to pay the expedite fee to meet this requirement because application is not sufficient. We must have a copy of the certificate with your Company ID number).</p> <p>Vendors do not need a City of Mobile Business License or Certificate of Authority from the Alabama Secretary of State, nor the E-Verify for certification to submit a bid, but will need to obtain the Business License and Certificate of Authority verification and/or provide the E-Verify Certification, if applicable, prior to issuance of a Purchase Order.</p> <p>Prices quoted on bid good for _____ days.</p> <p>All prices to be firm for 90 days from award of bid.</p> <p><b>TO BE AWARDED ALL OR NONE.</b></p>					
			<b>TOTAL</b>			

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QUANTITY	ARTICLES	UNIT	UNIT PRICE		EXTENSION	
			Dollars	Cents	Dollars	Cents
<p>Page 7 of 13</p> <p><b>Additional Terms Relating to Purchases with Federal Grant Awards</b></p> <p>1. FEDERAL GRANT FUNDING. This procurement may be funded in whole or part with federal grant funds.</p> <p>2. LOCAL VENDOR PREFERENCE. No local vendor preference will be considered or granted in evaluating bids which are funded in whole or part by federal grant awards.</p> <p>3. NON-DEBARMENT CERTIFICATION. Bidder certifies that the bidder and/or any of its subcontractors or principals have not been debarred, suspended, or declared ineligible by any agency of the Federal government or as defined in the Federal Acquisition Regulation (FAR) 48 C.F.R. Ch.1 Subpart 9.4.</p> <p>4. REMEDY FOR NON-PERFORMANCE/ TERMINATION OF CONTRACT</p> <p>(a) Immediate Termination - This bid award is subject to the appropriation and availability of City funding. will terminate immediately and absolutely if the City determines that adequate funds are not appropriated or granted or funds are de-appropriated such that the City cannot fulfill its obligations under the bid, which determination is at the City's sole discretion and shall be conclusive. Further, the City may terminate the bid award for any one or more of the following reasons effective immediately without advance notice:</p> <p>(i) in the event the bidder or bid awardee ("contractor") is required to be certified or licensed as a condition precedent to providing goods and services, the revocation or loss of such license or certification may result in immediate termination of the bid award effective as of the date on which the license or certification is no longer in effect;</p> <p>(ii) the City determines that the actions, or failure to act, of the bid awardee, its agents, employees or subcontractors have caused, or reasonably could cause, life, health or safety to be jeopardized; and/or</p> <p>(iii) the City determines that the bid awardee furnished any statement, representation or certification in connection with the bidding or bid award process which is materially false, deceptive, incorrect or incomplete.</p> <p>(b) Termination for Cause- The occurrence of any one or more of the following events shall constitute cause for the City to declare the bid awardee in default of its obligation under the bid award:</p> <p>(i) the bid awardee fails to deliver or has delivered nonconforming goods or services or fails to perform, to the City's satisfaction, any material requirement of the bid or is in violation of a material provision of the bid award, including, but without limitation, the express warranties made by the bid awardee;</p>						
			<b>TOTAL</b>			

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			Dollars	Cents	Dollars	Cents
	Page 8 of 13					
	<p>(ii) the City determines that satisfactory performance of the Contract is substantially endangered or that a default is likely to occur;</p> <p>(iii) the bid awardee fails to make substantial and timely progress toward performance of the bid requirements;</p> <p>(iv) the bid awardee becomes subject to any bankruptcy or insolvency proceeding under federal or state law to the extent allowed by applicable federal or state law including bankruptcy laws; the bid awardee terminates or suspends its business; or the City reasonably believes that the bid awardee has become insolvent or unable to pay its obligations as they accrue consistent with applicable federal or state law;</p> <p>(v) the bid awardee has failed to comply with applicable federal, state and local laws, rules, ordinances, regulations and orders when performing within the scope of the bid award;</p> <p>(vi) the bid awardee has engaged in conduct that has or may expose the City to liability, as determined in the City's sole discretion.</p> <p>(c) Notice of Default- If there is a default event caused by the bid awardee; the City shall provide written notice to the bid awardee requesting that the breach or noncompliance be remedied within the period of time specified in the City's written notice to the bid awardee. If the breach or noncompliance is not remedied within the period of time specified in the written notice, City may:</p> <p>(i) Immediately terminate the bid award without additional written notice; and/or</p> <p>(ii) Procure substitute goods or services from another source and charge the difference between the bid award price and the substitute price to the defaulting bid awardee, and/or,</p> <p>(iii) Enforce the terms and conditions of the bid award and seek any legal or equitable remedies.</p> <p>(d) Termination upon Notice- Following thirty (30) days' written notice, the City may terminate the bid award in whole or in part without the payment of any penalty or incurring any further obligation to the bid awardee. Following termination upon notice, the bid awardee shall be entitled to compensation, upon submission of invoices and proper proof of claim, for goods and services provided under the bid to the City up to and including date of termination.</p> <p>(e) Payment Limitation in Event of Termination- In the event of termination of the bid award for any reason by the City, the City shall pay only those amounts, if any, due and owing to the bid awardee for goods and services actually rendered up to and including the date of termination of the bid award and for which the City is obligated to pay pursuant to the bid award. Payment will be made only upon submission</p>					
			<b>TOTAL</b>			

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QUANTITY	ARTICLES	UNIT	UNIT PRICE		EXTENSION	
			Dollars	Cents	Dollars	Cents
	<p align="center">Page 9 of 13</p> <p>of invoices and proper proof of the bid awardee's claim. This provision in no way limits the remedies available to the City in the event of termination.</p> <p>(f) Termination Duties- Upon receipt of notice of termination or upon request of the City, the bid awardee shall:</p> <p>(i) Cease work under the bid award and take all necessary or appropriate steps to limit disbursements and minimize costs, and furnish a report within thirty (30) days of the date of notice of termination, describing the status of all work under the bid award, including, without limitation, results accomplished, conclusions resulting there from, and any other matters the City may require;</p> <p>(ii) Immediately cease using and return to the City any personal property or materials, whether tangible or intangible, provided by the City to the bid awardee;</p> <p>(iii) Comply with the City's instructions for the timely transfer of any active files and work product by the bid awardee under the bid award;</p> <p>(iv) Cooperate in good faith with the City, its employees, agents, and contractors during the transition period between the notification of termination and the substitution of any replacement contractor; and</p> <p>(v) Immediately return to the City any payments made by the City for goods and services that were not delivered or rendered by the bid awardee.</p> <p><b>5. EQUAL EMPLOYMENT OPPORTUNITY COMPLIANCE REQUIREMENT</b></p> <p>(a) Bid awardee (or "contractor") shall comply with all Federal, State and local laws concerning nondiscrimination, including but not limited to City of Mobile Ordinance No. 14-034 which requires, inter alia, that all contractors performing work for the City of Mobile not discriminate on the basis of race, creed, color, national origin or disability, require that all subcontractors they engage do the same, and make every reasonable effort to assure that fifteen percent of the work performed under contract be awarded to socially and economically disadvantaged individuals and business entities</p> <p>(b) During the performance of this contract, the bid awardee agrees as follows:</p> <p>(i) The contractor will not discriminate against any employee or applicant for employment because of race, color, religion, sex, sexual orientation, gender identity, or national origin. The contractor will take affirmative action to ensure that applicants are employed, and that employees are treated during employment, without regard to their race, color, religion, sex, or national origin. Such action shall include, but not be limited to the following: Employment, upgrading, demotion, or</p>					
			<b>TOTAL</b>			

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QUANTITY	ARTICLES	UNIT	UNIT PRICE		EXTENSION	
			Dollars	Cents	Dollars	Cents
	<p>Page 10 of 13</p> <p>transfer, recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided by the contracting officer setting forth the provisions of this nondiscrimination clause.</p> <p>(ii) The contractor will, in all solicitations or advertisements for employees placed by or on behalf of the contractor, state that all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, or national origin.</p> <p>(iii) The contractor will not discharge or in any other manner discriminate against any employee or applicant for employment because such employee or applicant has inquired about, discussed, or disclosed the compensation of the employee or applicant or another employee or applicant. This provision shall not apply to instances in which an employee who has access to the compensation information of other employees or applicants as a part of such employee's essential job functions discloses the compensation of such other employees or applicants to individuals who do not otherwise have access to such information, unless such disclosure is in response to a formal complaint or charge, in furtherance of an investigation, proceeding, hearing, or action, including an investigation conducted by the employer, or is consistent with the contractor's legal duty to furnish information.</p> <p>(iv) The contractor will send to each labor union or representative of workers with which it has a collective bargaining agreement or other contract or understanding, a notice to be provided by the agency contracting officer, advising the labor union or workers' representative of the contractor's commitments under section 202 of Executive Order 11246 of September 24, 1965, and shall post copies of the notice in conspicuous places available to employees and applicants for employment.</p> <p>(v.) The contractor will comply with all provisions of Executive Order 11246 of September 24, 1965, and of the rules, regulations, and relevant orders of the Secretary of Labor.</p> <p>(vi) The contractor will furnish all information and reports required by Executive Order 11246 of September 24, 1965, and by the rules, regulations, and orders of the Secretary of Labor, or pursuant thereto, and will permit access to his books, records, and accounts by the contracting agency and the Secretary of Labor for purposes of investigation to ascertain compliance with such rules, regulations, and orders.</p>					
			<b>TOTAL</b>			

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QUANTITY	ARTICLES	UNIT	UNIT PRICE		EXTENSION	
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	<p>Page 11 of 13</p> <p>(vii) In the event of the contractor's non-compliance with the nondiscrimination clauses of this contract or with any of such rules, regulations, or orders, this contract may be canceled, terminated or suspended in whole or in part and the contractor may be declared ineligible for further Government contracts in accordance with procedures authorized in Executive Order 11246 of September 24, 1965, and such other sanctions may be imposed and remedies invoked as provided in Executive Order 11246 of September 24, 1965, or by rule, regulation, or order of the Secretary of Labor, or as otherwise provided by law.</p> <p>(viii) The contractor will include the provisions of paragraphs (1) through (8) in every subcontract or purchase order unless exempted by rules, regulations, or orders of the Secretary of Labor issued pursuant to section 204 of Executive Order 11246 of September 24, 1965, so that such provisions will be binding upon each subcontractor or vendor. The contractor will take such action with respect to any subcontract or purchase order as may be directed by the Secretary of Labor as a means of enforcing such provisions including sanctions for noncompliance: Provided, however, that in the event the contractor becomes involved in, or is threatened with, litigation with a subcontractor or vendor as a result of such direction, the contractor may request the United States to enter into such litigation to protect the interests of the United States.</p> <p><b>6. ENERGY POLICY AND CONSERVATION ACT STATEMENT</b>                      Bid awardee will comply with mandatory standards and policies relating to energy efficiency which are contained in the state energy conservation plan issued in compliance with the Energy Policy and Conservation Act (Public Law 94-163, 89 Stat.871).</p> <p><b>7. CLEAN AIR/ CLEAN WATER STATEMENT (for bids over \$100k)</b>                      Bid awardee will comply with all applicable standards, orders, or requirements issued under section 306 of the Clean Air Act (42 U.S.C. 1857(h)) Clean Air and Water Certification. Bidder certifies that none of the facilities it uses to produce goods provided under the Contract are on the Environmental Protection Authority (EPA) List of Violating Facilities. Bid awardee will immediately notify the City of the receipt of any communication indicating that any of bid awardee's facilities are under consideration to be listed on the EPA List of Violating Facilities.</p> <p><b>8. BID PROTEST PROCEDURES</b>                      (a) Any protest shall be in writing and shall be delivered to the City of Mobile Purchasing Agent at the address used for the submission of bids, or by email to Purchasing@CityofMobile.org. Bids may be protested as</p>					
			<b>TOTAL</b>			

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	<p>Page 12 of 13</p> <p>solicited or as awarded. A protest of a bid solicitation process shall be filed and received by the City individual before the bid due date. Protests of bid award must be filed within seven (7) calendar days after the City's notice of intent to award. All protests shall include the following information:</p> <p>(i) The name, address, and telephone number of the protestor;</p> <p>(ii) The signature of the protestor or an authorized representative of the protestor;</p> <p>(iii) Identification of the bid being protested;</p> <p>(iv) A detailed statement of the legal and factual grounds of the protest including copies of relevant documents;</p> <p>(v) The form of relief requested</p> <p>(b) The City Purchasing Agent will provide a written response to the protest within 14 calendar days from receipt of the protest.</p> <p>(c) Protesters may appeal the Purchasing Agent decision to the City Attorney in writing not later than seven (7) calendar days after receipt of Purchasing Agent decision. Protests to the City Attorney must be mailed to the following address: City Attorney, City of Mobile, PO Box 1827, Mobile, Alabama 36633-1827. The City Attorney may, at his sole discretion, (a) render a decision and inform the protesting party in writing, or (b) request further information from the protesting party and other parties, which information shall be submitted within ten (10) days of the request. Within ten (10) days of receipt of the requested information, the City Attorney may, at his sole discretion (a) render a decision and inform the parties, or (b) conduct an informal hearing at which the interested parties will be afforded opportunity to present their respective positions with facts and documents in support thereof. Within ten (10) days of such informal hearing, the City Attorney will render a decision, which shall be final, and notify all interested parties in writing</p> <p><b>9. CODE OF CONDUCT</b></p> <p>(a) No employee, officer, or agent of the City shall participate in selection, award, or administration, to include receipt of products, of a City bid award if conflict of interest, real or apparent, would be involved. Conflicts of interest arise when an employee or agent, or the immediate family, partner, or employer or imminent employer of an employee or agent, has a financial or other interest in the firm considered or selected for the award.</p> <p>(b) Further, City employees, officers, or agents shall neither solicit nor accept, and bidders shall not offer or provide, gratuities, favors, or</p>					
			<b>TOTAL</b>			

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			Dollars	Cents	Dollars	Cents
	Page 13 of 13					
	<p>anything of monetary value from bidders or potential bidders or parties to sub-agreements.</p> <p>10. ANTI-LOBBYING CERTIFICATION (For bid awards over \$100,000).</p> <p>(a). 2 CFR 200 – Appendix II, “Contract Provisions for Non-Federal Entity Contracts Under Federal Awards” is hereby incorporated by reference into this certification</p> <p>(b) The bidder, by signing its bid, hereby certifies to the best of his or her knowledge and belief that:</p> <p>(i) No 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 agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress on his or her behalf 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;</p> <p>(ii) If any funds other than Federal appropriated funds (including profit or fee received under a covered Federal transaction) have been paid, or will be paid, to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress on his or her behalf in connection with this solicitation, the offeror shall complete and submit, with its offer, OMB standard form LLL, Disclosure of Lobbying Activities, to the Contracting Officer; and</p> <p>(iii) He or she will include the language of this certification in all subcontract awards at any tier and require that all recipients of subcontract awards in excess of \$150,000 shall certify and disclose accordingly.</p> <p>(iv) This certification is a material representation of fact upon which reliance is placed when this transaction was made or entered into. Submission of this certification and disclosure is a prerequisite for making or entering into this contract imposed by section 1352, title 31, United States Code. Any person making an expenditure prohibited under this provision or who fails to file or amend the disclosure form to be filed or amended by this provision, shall be subject to a civil penalty of not less than \$10,000, and not more than \$100,000, for each such failure.</p>					
			<b>TOTAL</b>			

RETURN ONE SIGNED COPY OF THIS QUOTATION IN ENCLOSED ENVELOPE

READ ABOVE INSTRUCTIONS BEFORE QUOTING

Firm Name \_\_\_\_\_  
 By \_\_\_\_\_

We will allow a discount \_\_\_\_\_ % 20 days from date of receipt of goods and correct invoice of completed order.

# CITY OF MOBILE

## SPECIFICATIONS FOR STEEL TRAFFIC SIGNAL POLES

### I. General.

The following are the requirements for steel traffic signal poles. These requirements may be supplemented by the requirements given on the details attached hereto as a part of this specification. The poles will be for City of Mobile Project 2018-3005-01 TIGER 2016 Project Phase One-Two Broad Street (US-90) from Canal Street to Dr. Martin Luther King Jr. Avenue and Beauregard Street from Dr. Martin Luther King Jr. Avenue to Lawrence Street.

A traffic signal pole shall consist of a tapered, fluted pole, tapered traffic signal mast arm(s), luminaire arm(s), if required, anchor bolts, base plate, decorative base and finial, and any other features as described in this specification.

### II. Design/Fabrication.

All materials used in the fabrication of traffic signal structural supports shall meet the requirements of the AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals, 2009 edition as per the latest ALDOT Standard Specifications. Calculations and detailed drawings shall be submitted demonstrating compliance with the specifications. They shall include stress analysis on the mast arm, luminaire arm, pole, base plate, and anchor bolts. Maximum loads and stresses shall be determined for the most critical wind direction. The tube's drag coefficients shall be increased to include the effects of fluted shapes.

All grades of steel listed in the AASHTO Standard Specifications for Highway Bridges are applicable for welded structural supports for traffic signals and shall have a specified yield strength not less than 35 ksi.

#### (a.) Steel Poles.

The shafts shall be fabricated from basic oxygen or open hearth sheet steel, of a single ply, and having only one longitudinal seam weld. Steel poles shall be anchored with a one piece cast steel anchor base or a welded steel plate anchor base that is of sufficient strength to develop the yield strength of the pole. When the anchor base is attached to the shaft it shall develop the full strength of the shaft section to resist bending action. The base shall be provided with four slotted holes for attachment to the foundation with four anchor bolts. Each pole will have an internal grounding lug inside each pole near the hand hole.

Signal poles shall be tapered with sixteen equally spaced sharp flutes clear cut throughout the entire length of the shaft. The pole shall have a 4 inches x 10 inches reinforced hand hole with cover located approximately 18 inches from the pole base.

The metal 30' traffic signal poles with no mast arms (only luminaires and pedestrian arms) may be submitted as an aluminum pole provided it meets the same aesthetic features with the 16-point sharp fluted tapered pole with decorative base and top.

#### (b.) Mast Arms.

Mast arms shall be curved, smooth upswept round shafts fabricated from steel tubes to the lengths specified on the bid. Mast arms shafts shall be of one continuous piece without intermediate splices or couplings, provided with rain-tight connections to the shaft of the pole and designed to rotate three hundred and sixty degrees in the horizontal plane. A two piece section, slip joint shaft mast arm will be permitted if this bid requires mast arms longer than the manufacturer's length capability.

**(c.) Pedestal Poles.**

Aluminum material shall meet the requirements of the AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals, 2009 edition as per the latest ALDOT Standard Specifications. Welding shall also be in accordance with the provisions of Section 5 of the AASHTO Specifications. The shaft of aluminum poles shall be one piece seamless tube full length heat-treated after welding on the base flange to produce the T6 temper. The base shall be one-piece cast aluminum. All nuts, bolts and washers used shall be stainless steel Grade 18-8 or stronger, and shall meet the requirements of ASTM F 593. Each pole will have an internal grounding lug inside each pole near the hand hole. A pole vibration damper shall be provided.

Pedestrian pedestal shafts shall be 8 foot 16-point sharpened fluted shafts. School flasher pedestal shafts shall be 14 foot 16-point sharpened fluted shafts. The top shall be designed to fit a standard 4 inch slip-fitter attachment. A hand hole with cover, approximately 4 inches by 6 inches dimension, shall be provided in the base of the pedestal shaft. A cap for any exposed open end of a pedestal shaft shall be provided. The cap shall be cast aluminum and of the nipple or tenon mounting type.

**(d.) Luminaire Arms.**

Luminaire arms shall be curved, smooth upswept round shafts. The luminaire arms shall be manufactured from 2 inch Schedule 40 pipe (2-3/8 inch O.D.) with a scroll brace attachment. The arm shall be design to attach to the shaft of the signal pole with option to rotate three hundred and sixty degrees in the horizontal plane. The luminaire is not a part of this bid. The design of the luminaire arm included in the bid shall be submitted with the bid, in addition to any alternative design that can be substituted at no additional cost.

**(e.) Anchor Bolt Assemblies.**

Anchor bolt assemblies (anchor bolts, nuts, and washers) shall be in accordance with AASHTO M 314, Grade 36 or Grade 55, except maximum tensile strength on all grades is waived, and capable of transferring the load safely from the structure base plate to the foundation. The exposed end of the anchor bolts shall be threaded (rolled or cut type) and provided with appropriate nuts, including lock nuts and flat washers. The anchor bolts, nuts, and washers shall be hot-dipped galvanized in accordance with AASHTO M 232, however, galvanization of the bolt below 6 inches from the top of the embedment line will not be required. The nuts shall be lubricated with a lubricant containing a visible dye so that a visual check can be made for proper lubrication prior to



installation. Special care shall be taken when storing galvanized bolts with a water soluble lubricant.

**(f.) Decorative Base.**

The steel signal poles shall include a decorative base approximately 40 inches in height and widths varying in diameter at the base of the pole. The decorative base height should be adjusted depending on the pole diameter for the smaller diameter poles included in this bid. All poles included in this bid shall include a decorative base regardless of material or diameter. The base halves shall be clam-shell type, split equally and fitted to provide a hairline seem when assembled. The decorative base must have a fluted opening at the top of the base to match the shape of the 16-point flute. The base design shall include a rounded top and bottom with a single taper section in the middle. The design of the base included in the bid shall be submitted with the bid, in addition to any alternative design that can be substituted at no additional cost. Decorative base examples are provided herein.

**(g.) Pedestrian Arms.**

Pedestrian signal arms shall be aluminum or iron, finished gloss black.

A welded coupling shall be included approximately 9.5 feet above grade and the lower coupling placed as to accept typical countdown pedestrian signal housing (no less than 8 feet above grade). All couplings to be plugged on deliver.

**(h.) Additional Features.**

All hardware shall be stainless steel or anodized aluminum.

Each traffic signal pole shall be provided with an ornamental pole top. The multi-casting stacked pole top shall be mechanically attached to the top of the shaft to provide access to siring signals secured by a j-hook wire support. The design of the finial included in the bid shall be submitted with the bid, in addition to any alternative design that can be substituted at no additional cost.

The traffic signal poles shall include a GFCI receptacle with in-use weather-proof cover 10 feet above finish grade on the side opposite the mast arm. Cover shall be aluminum, lockable and finished black to match the pole.

The traffic signal poles shall provide banner arms, top and bottom. A welded coupling shall be included directly under the mast arm (approximately 16 feet above grade) and the lower coupling placed as to accept a 6 foot x 2 foot banner (approximately 10 feet above grade). All couplings to be plugged on deliver and banner arms shipped detached from pole.

**(i.) Finish.**

All poles, mast arms and attachments shall be hot dipped galvanized per ASTM-A123. Powered coating or wet coat painting urethane primer/polyurea finish. The finished color shall be gloss black. Material shall be wrapped and protected to prevent damage during shipping, storage and construction.

**(j.) Metal Traffic Signal Pole with Mast Arm Assembly.**

The Metal Traffic Signal Pole with Mast Arm Assembly shall include furnishing the metal traffic signal pole, mast arm assembly, luminaire arm, banner arms, receptacles, decorative base and finial, and all features and hardware necessary as described in this specification and illustrated in the attached plans.

Payment will be made under the following Line Items:

- (1) Metal 17' Traffic Signal Pole with 1-35' Mast Arm Assembly
- (2) Metal 30' Traffic Signal Pole with 1-35' Mast Arm Assembly
- (3) Metal 30' Traffic Signal Pole with 1-40' Mast Arm Assembly
- (4) Metal 30' Traffic Signal Pole with 1-45' Mast Arm Assembly
- (5) Metal 30' Traffic Signal Pole with 1-50' Mast Arm Assembly
- (6) Metal 30' Traffic Signal Pole with 1-55' Mast Arm Assembly
- (7) Metal 30' Traffic Signal Pole with 1-60' Mast Arm Assembly
- (8) Metal 30' Traffic Signal Pole with 1-65' Mast Arm Assembly
- (9) Metal 30' Traffic Signal Pole with 1-40' and 1-35' Mast Arm Assembly
- (10) Metal 30' Traffic Signal Pole with 1-45' and 1-30' Mast Arm Assembly
- (11) Metal 30' Traffic Signal Pole with 1-35' and 1-65' Mast Arm Assembly
- (12) Metal 30' Traffic Signal Pole with 1-25' and 1-50' Mast Arm Assembly
- (13) Metal 30' Traffic Signal Pole with 1-45' and 1-55' Mast Arm Assembly
- (14) Metal 30' Traffic Signal Pole with 1-55' and 1-55' Mast Arm Assembly

**(k.) Metal Traffic Signal Pole.**

The Metal Traffic Signal Pole with Mast Arm Assembly shall include furnishing the metal traffic signal pole, luminaire arm, banner arms, receptacles, decorative base and finial, and all features and hardware necessary as described in this specification and illustrated in the attached plans.

- (15) Metal 30' Traffic Signal Pole

**(l.) Pedestal Pole.**

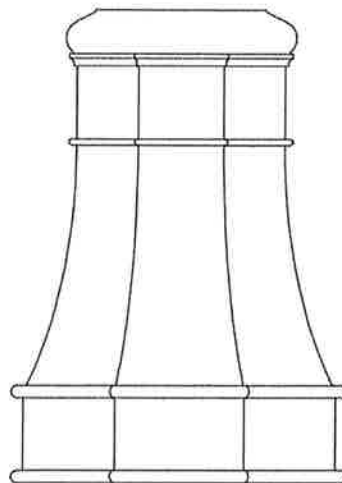
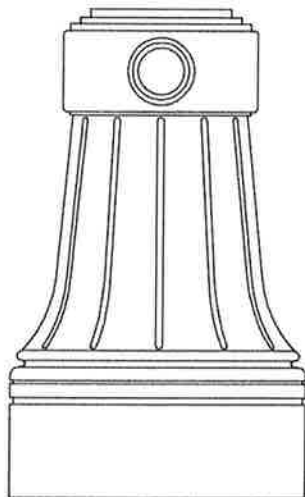
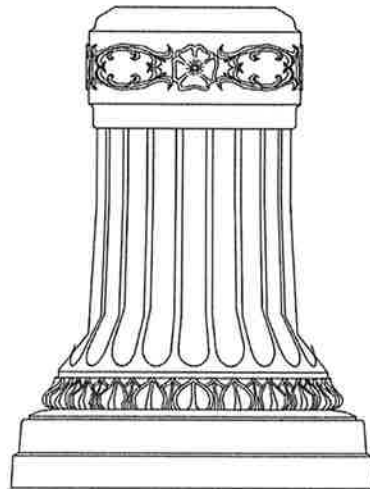
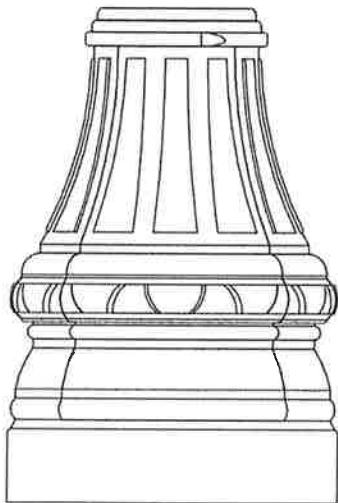
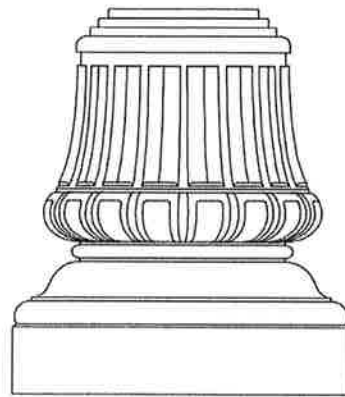
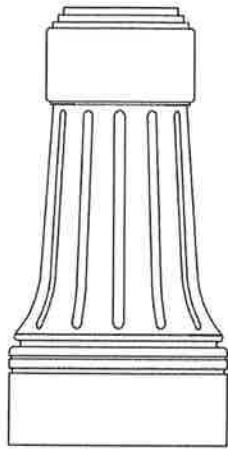
The Pedestal Pole shall include furnishing the metal pedestal pole, decorative base, and hardware necessary as described in this specification and illustrated in the attached plans.

- (16) Pedestrian 8' Pedestal Pole.
- (17) School Flasher 14' Pedestal Pole.

**III. Bid Alternate.**

As an alternate for the above specifications, the City may consider a smooth tapered pole in place of a 16-point fluted pole.

# Decorative Base Examples

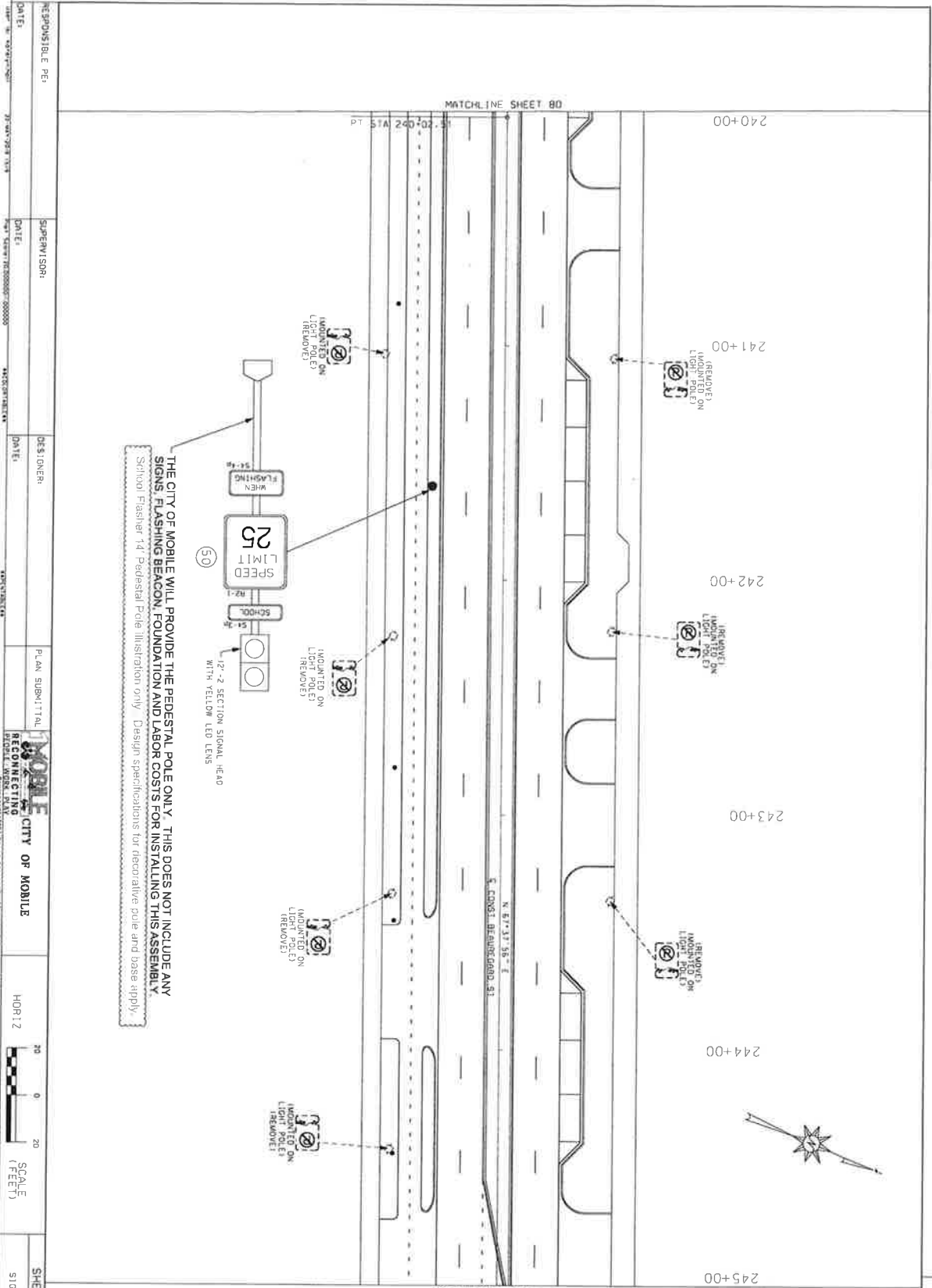


## POLE SCHEDULE

POLE		MAST ARM LENGTH	PED FEATURES	LUMINAIRE ARM	BANNER	PLAN SHEET	BID LINE
NO.	HEIGHT						
4-7	17'	35'	1	--	No	211	1
1-2	30'	35'	1	8'	Yes	206	2
1-4	30'	35'	2	8'	Yes	206	2
3-5	30'	35'	--	8'	Yes	209	2
2-9	30'	40'	1	8'	Yes	207	3
3-10	30'	40'	1	8'	Yes	209	3
2-4	30'	45'	1	8'	Yes	207	4
6-3	30'	45'	--	8'	Yes	213	4
4-5	30'	50'	2	8'	Yes	211	5
1-3	30'	55'	2	8'	Yes	206	6
1-5	30'	55'	1	8'	Yes	206	6
4-1	30'	55'	1	8'	Yes	211	6
4-2	30'	60'	1	8'	No	211	7
6-1	30'	60'	--	8'	No	213	7
6-2	30'	60'	--	8'	No	213	7
6-4	30'	60'	--	8'	No	213	7
3-6	30'	65'	1	8'	Yes	209	8
2-2	30'	40', 35'	--	8'	Yes	207	9
2-11	30'	45', 30'	2	8'	Yes	207	10
3-2	30'	35', 65'	1	8'	Yes	209	11
3-12	30'	25', 50'	2	8'	Yes	209	12
5-1	30'	45', 55'	2	8'	Yes	212	13
5-2	30'	55', 55'	1	8'	Yes	212	14
2-5	30'	--	1	8'	Yes	207	15
2-10	30'	--	2	8'	Yes	207	15
2-12	30'	--	1	8'	No	207	15
3-3	30'	--	1	8'	Yes	209	15
3-4	30'	--	1	8'	Yes	209	15
3-11	30'	--	2	8'	Yes	209	15
3-13	30'	--	1	8'	Yes	209	15
4-3	30'	--	1	8'	No	211	15
4-4	30'	--	1	8'	Yes	211	15
4-6	30'	--	1	8'	Yes	211	15
6-6	30'	--	1	8'	No	213	15
1-1	8'	--	1	--	No	206	16
1-6	8'	--	1	--	No	206	16
2-1	8'	--	1	--	No	207	16
2-3	8'	--	1	--	No	207	16
2-6	8'	--	1	--	No	207	16
2-7	8'	--	1	--	No	207	16
2-8	8'	--	1	--	No	207	16
2-13	8'	--	1	--	No	207	16
3-1	8'	--	1	--	No	209	16
3-7	8'	--	1	--	No	209	16
3-8	8'	--	1	--	No	209	16
3-9	8'	--	1	--	No	209	16
3-14	8'	--	1	--	No	209	16
5-3	8'	--	1	--	No	212	16
5-5	8'	--	1	--	No	212	16
5-6	8'	--	1	--	No	212	16
5-7	8'	--	1	--	No	212	16
5-8	8'	--	1	--	No	212	16
6-5	8'	--	1	--	No	213	16
7-1	14'	--	--	--	No	81	17
7-2	14'	--	--	--	No	83	17

# SIGNING SHEET

REFERENCE PROJECT NO	2018-3005-01
FISCAL YEAR	2019
SHEET NO	81



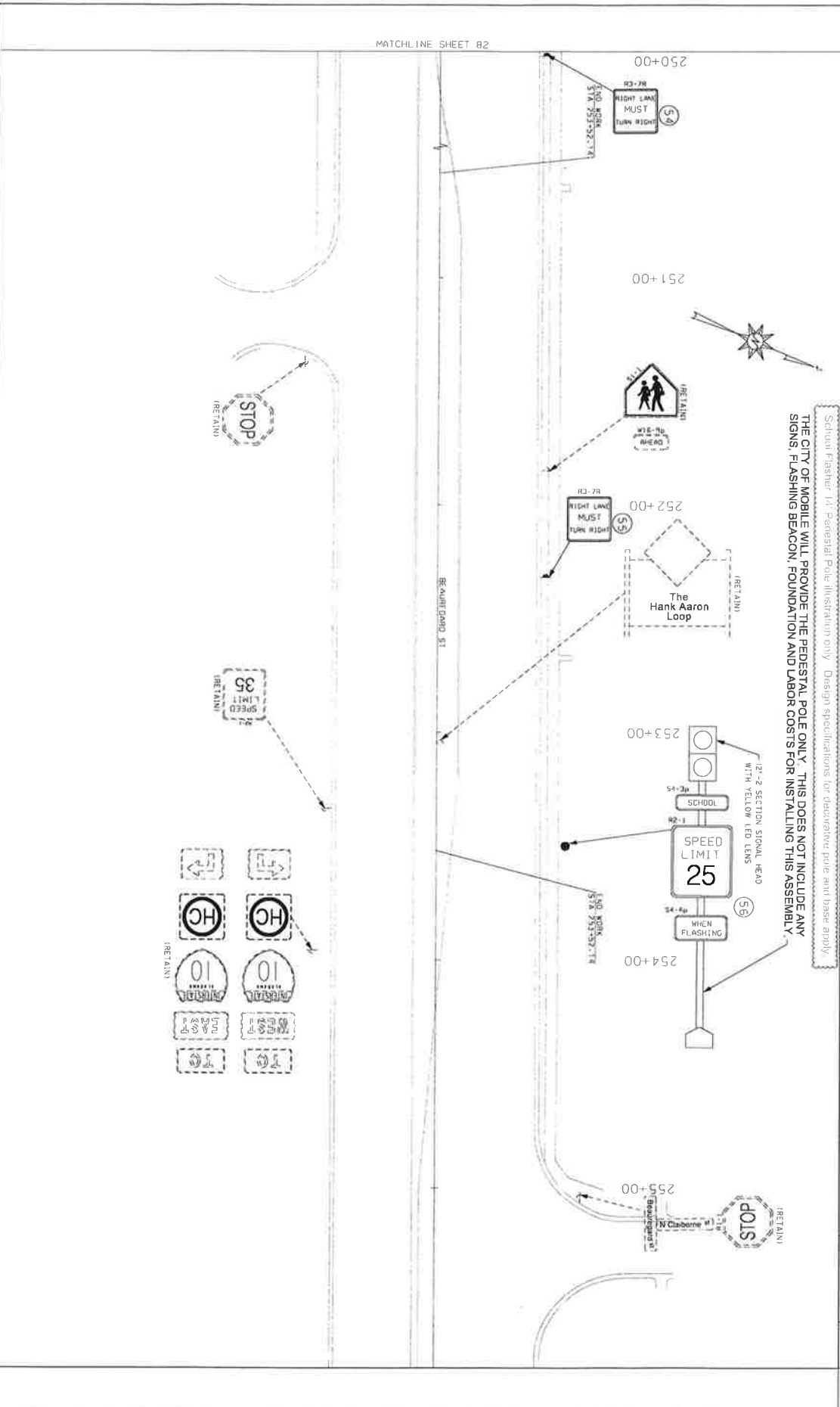
**THE CITY OF MOBILE WILL PROVIDE THE PEDESTAL POLE ONLY. THIS DOES NOT INCLUDE ANY SIGNS, FLASHING BEACON, FOUNDATION AND LABOR COSTS FOR INSTALLING THIS ASSEMBLY.**  
 School Flasher 14 Pedestal Pole illustration only. Design specifications for decorative pole and base apply.

RESPONSIBLE PE	DATE	SUPERVISOR	DATE	DESIGNER	DATE	PLAN SUBMITTAL	MOBILE CITY OF MOBILE	HORIZ	SCALE (FEET)	SHEET TITLE	ROUTE
										SIGNING SHEET	BROAD STREET

# SIGNING SHEET

REFERENCE SHEET NO. 2018-3005-01 FISCAL YEAR 2019 SHEET NO. 83

School Flasher 1st Pedestal Pole illustration only. Design specifications for decorative pole and base apply.  
**THE CITY OF MOBILE WILL PROVIDE THE PEDESTAL POLE ONLY. THIS DOES NOT INCLUDE ANY SIGNS, FLASHING BEACON, FOUNDATION AND LABOR COSTS FOR INSTALLING THIS ASSEMBLY.**



RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL:	MOBILE CITY OF MOBILE	HORIZ:	SCALE:	SHEET TITLE:	ROUTE:
DATE:	DATE:	DATE:	DATE:	REVISIONS:	SCALE (FEET):	SCALE (FEET):	SIGNING SHEET	BROAD STREET

# TRAFFIC SIGNAL AND ITS LEGEND

REFERENCE SHEET NO. 2018-3005-01  
FISCAL YEAR 2019  
SHEET NO. 205

RESPONSIBLE PER.	DATE	DESIGNER	DATE	PLAN SUBMITTAL	DATE	NOT TO SCALE	SHEET TITLE	ROUTE
STEWARTSON	10/20/2018	STEWARTSON	10/20/2018	TRAFFIC SIGNAL AND ITS LEGEND	10/20/2018		TRAFFIC SIGNAL AND ITS LEGEND	BROAD STREET

ELECTRICAL BOXES	MISCELLANEOUS EQUIPMENT	ABBREVIATIONS	
<p><b>EXISTING</b></p> <p>METALLIC PULL BOX <span style="font-size: 2em;">PB</span></p> <p>FIBER OPTIC COMBO BOX TYPE F1 <span style="font-size: 2em;">F1</span></p> <p>FIBER OPTIC COMBO BOX TYPE F2 <span style="font-size: 2em;">F2</span></p> <p>TRAFFIC SIGNAL JUNCTION BOX <span style="font-size: 2em;">JB</span></p> <p><b>REQUIRED</b></p> <p>METALLIC PULL BOX <span style="font-size: 2em;">PB</span></p> <p>FIBER OPTIC COMBO BOX TYPE F1 <span style="font-size: 2em;">F1</span></p> <p>FIBER OPTIC COMBO BOX TYPE F2 <span style="font-size: 2em;">F2</span></p> <p>TRAFFIC SIGNAL JUNCTION BOX <span style="font-size: 2em;">JB</span></p>	<p><b>EXISTING</b></p> <p>TRAFFIC SIGNAL HEAD <span style="font-size: 2em;">D</span></p> <p>TRAFFIC SIGNAL HEAD WITH BACKPLATE <span style="font-size: 2em;">D</span></p> <p>PEDESTRIAN SIGNAL HEAD <span style="font-size: 2em;">P</span></p> <p>BICYCLE SIGNAL HEAD <span style="font-size: 2em;">B</span></p> <p>B FOOT PEDESTAL SIGNAL HEAD <span style="font-size: 2em;">P</span></p> <p>PEDESTAL SIGNAL HEAD <span style="font-size: 2em;">P</span></p> <p>PEDESTAL MOUNTED FLASHING WARNING SIGNAL WITH SIGN <span style="font-size: 2em;">P</span></p> <p>PEDESTAL MOUNTED ILLUMINATED SCHOOL ZONE SIGN <span style="font-size: 2em;">P</span></p> <p>PUSH BUTTON ASSEMBLY <span style="font-size: 2em;">P</span></p> <p>SPRAYMASTAR MOUNTED SIGN <span style="font-size: 2em;">P</span></p> <p>DUAL DIRECTIONAL ANTENNA <span style="font-size: 2em;">P</span></p> <p>DIRECTIONAL ANTENNA <span style="font-size: 2em;">P</span></p> <p>EMERGENCY VEHICLE PREEMPTION SENSOR <span style="font-size: 2em;">P</span></p> <p>BANKOUT MESSAGE SIGN <span style="font-size: 2em;">P</span></p> <p>TRAFFIC CONTROL CENTER <span style="font-size: 2em;">P</span></p> <p>HIGHWAY ADVISORY RADIO <span style="font-size: 2em;">P</span></p> <p>HUB BUILDING <span style="font-size: 2em;">P</span></p> <p>DYNAMIC MESSAGE SIGN (OVERHEAD) <span style="font-size: 2em;">P</span></p> <p>DYNAMIC MESSAGE SIGN (ROADSIDE) <span style="font-size: 2em;">P</span></p> <p>DYNAMIC MESSAGE SIGN (CANTILEVER) <span style="font-size: 2em;">P</span></p> <p><b>REQUIRED</b></p> <p>TRAFFIC SIGNAL HEAD <span style="font-size: 2em;">D</span></p> <p>TRAFFIC SIGNAL HEAD WITH BACKPLATE <span style="font-size: 2em;">D</span></p> <p>PEDESTRIAN SIGNAL HEAD <span style="font-size: 2em;">P</span></p> <p>BICYCLE SIGNAL HEAD <span style="font-size: 2em;">B</span></p> <p>B FOOT PEDESTAL SIGNAL HEAD <span style="font-size: 2em;">P</span></p> <p>PEDESTAL SIGNAL HEAD <span style="font-size: 2em;">P</span></p> <p>PEDESTAL MOUNTED FLASHING WARNING SIGNAL WITH SIGN <span style="font-size: 2em;">P</span></p> <p>PEDESTAL MOUNTED ILLUMINATED SCHOOL ZONE SIGN <span style="font-size: 2em;">P</span></p> <p>PUSH BUTTON ASSEMBLY <span style="font-size: 2em;">P</span></p> <p>SPRAYMASTAR MOUNTED SIGN <span style="font-size: 2em;">P</span></p> <p>DUAL DIRECTIONAL ANTENNA <span style="font-size: 2em;">P</span></p> <p>DIRECTIONAL ANTENNA <span style="font-size: 2em;">P</span></p> <p>EMERGENCY VEHICLE PREEMPTION SENSOR <span style="font-size: 2em;">P</span></p> <p>BANKOUT MESSAGE SIGN <span style="font-size: 2em;">P</span></p> <p>TRAFFIC CONTROL CENTER <span style="font-size: 2em;">P</span></p> <p>HIGHWAY ADVISORY RADIO <span style="font-size: 2em;">P</span></p> <p>HUB BUILDING <span style="font-size: 2em;">P</span></p> <p>DYNAMIC MESSAGE SIGN (OVERHEAD) <span style="font-size: 2em;">P</span></p> <p>DYNAMIC MESSAGE SIGN (ROADSIDE) <span style="font-size: 2em;">P</span></p> <p>DYNAMIC MESSAGE SIGN (CANTILEVER) <span style="font-size: 2em;">P</span></p>	<p><b>EXISTING</b></p> <p>METAL POLE <span style="font-size: 2em;">O</span></p> <p>CONCRETE POLE <span style="font-size: 2em;">O</span></p> <p>METAL MASTARM POLE <span style="font-size: 2em;">O</span></p> <p>CLASS 3 WOOD SERVICE POLE WITH DISCONNECT <span style="font-size: 2em;">O</span></p> <p>WOOD POLE <span style="font-size: 2em;">O</span></p> <p>DOWN GUY <span style="font-size: 2em;">O</span></p> <p>LUMINAIRE <span style="font-size: 2em;">O</span></p> <p><b>REQUIRED</b></p> <p>METAL POLE <span style="font-size: 2em;">O</span></p> <p>CONCRETE POLE <span style="font-size: 2em;">O</span></p> <p>METAL MASTARM POLE <span style="font-size: 2em;">O</span></p> <p>CLASS 3 WOOD SERVICE POLE WITH DISCONNECT <span style="font-size: 2em;">O</span></p> <p>WOOD POLE <span style="font-size: 2em;">O</span></p> <p>DOWN GUY <span style="font-size: 2em;">O</span></p> <p>LUMINAIRE <span style="font-size: 2em;">O</span></p>	<p>AMERICAN WIRE GAUGE</p> <p>CLOSED CIRCUIT TELEVISION</p> <p>CONDUIT</p> <p>CURB AND GUTTER</p> <p>DYNAMIC MESSAGE SIGN</p> <p>EASTBOUND ROADWAY</p> <p>EMERGENCY VEHICLE PREEMPTION</p> <p>END ANCHOR</p> <p>FLASHING BEACON</p> <p>GALVANIZED RIGID CONDUIT</p> <p>GUARDRAIL</p> <p>HIGH DENSITY POLYETHYLENE</p> <p>HIGHWAY ADVISORY RADIO</p> <p>INDIVIDUAL LAMERING DEVICE</p> <p>INTELLIGENT TRANSPORTATION SYSTEMS</p> <p>JUNCTION BOX</p> <p>LEFT</p> <p>LEFT LIGHT EMITTING DIODE</p> <p>LIGHT POLE</p> <p>LUMINAIRE</p> <p>MILEPOST</p> <p>NORTHBOUND ROADWAY</p> <p>NON-METALLIC CONDUIT</p> <p>PAN TILT ZOOM</p> <p>PRIMARY FIBER DISTRIBUTION UNIT</p> <p>PROPERTY LINE</p> <p>PUBLIC ACCESS CAMERA</p> <p>PULL BOX</p> <p>RADIUS</p> <p>RAILROAD</p> <p>RIGHT</p> <p>RIGHT OF WAY</p> <p>ROADWAY</p> <p>SECONDARY FIBER DISTRIBUTION UNIT</p> <p>SCHOOL</p> <p>SOUTHBOUND ROADWAY</p> <p>STANDARD DRAWING</p> <p>STATION</p> <p>TRAFFIC CONTROL CENTER</p> <p>TRAFFIC SIGNAL OPERATING PLAN</p> <p>TRANSPORTATION MANAGEMENT CENTER</p> <p>TURNOUT</p> <p>VEHICLE DETECTION CAMERA</p> <p>WESTBOUND ROADWAY</p>

VEHICULAR DETECTORS	CABLE IN CONDUIT	CAMERAS
<p><b>EXISTING</b></p> <p>PRESSENCE LOOP DETECTOR <span style="font-size: 2em;">L</span></p> <p>QUADRIPOLE LOOP DETECTOR <span style="font-size: 2em;">L</span></p> <p>6" x 6" LOOP DETECTOR <span style="font-size: 2em;">L</span></p> <p>VEHICLE DETECTION CAMERA <span style="font-size: 2em;">L</span></p> <p>VIDEO DETECTION ZONE <span style="font-size: 2em;">L</span></p> <p>RAIAR DETECTION UNIT <span style="font-size: 2em;">L</span></p> <p><b>REQUIRED</b></p> <p>PRESSENCE LOOP DETECTOR <span style="font-size: 2em;">L</span></p> <p>QUADRIPOLE LOOP DETECTOR <span style="font-size: 2em;">L</span></p> <p>6" x 6" LOOP DETECTOR <span style="font-size: 2em;">L</span></p> <p>VEHICLE DETECTION CAMERA <span style="font-size: 2em;">L</span></p> <p>VIDEO DETECTION ZONE <span style="font-size: 2em;">L</span></p> <p>RAIAR DETECTION UNIT <span style="font-size: 2em;">L</span></p>	<p><b>EXISTING</b></p> <p>FIBER OPTIC CABLE IN CONDUIT (UNDERGROUND)</p> <p>FIBER OPTIC CABLE IN CONDUIT (UNDERGROUND WITH CONCRETE)</p> <p>FIBER OPTIC CABLE IN CONDUIT (SHRIGUE ATTACHED)</p> <p>FIBER OPTIC CABLE INSTALLATION</p> <p>INTERCONNECTED CABLE IN CONDUIT</p> <p>INTERCONNECTED CABLE (AERIAL INSTALLATION)</p> <p>CONDUIT</p> <p>ENGAGEMENT</p> <p>OVERHEAD ELECTRIC</p> <p>BURIED ELECTRIC</p> <p><b>REQUIRED</b></p> <p>FIBER OPTIC CABLE IN CONDUIT (UNDERGROUND)</p> <p>FIBER OPTIC CABLE IN CONDUIT (UNDERGROUND WITH CONCRETE)</p> <p>FIBER OPTIC CABLE IN CONDUIT (SHRIGUE ATTACHED)</p> <p>FIBER OPTIC CABLE INSTALLATION</p> <p>INTERCONNECTED CABLE IN CONDUIT</p> <p>INTERCONNECTED CABLE (AERIAL INSTALLATION)</p> <p>CONDUIT</p> <p>ENGAGEMENT</p> <p>OVERHEAD ELECTRIC</p> <p>BURIED ELECTRIC</p>	<p><b>EXISTING</b></p> <p>CCTV CAMERA, FIXED</p> <p>CCTV CAMERA, PTZ</p> <p><b>REQUIRED</b></p> <p>CCTV CAMERA, FIXED</p> <p>CCTV CAMERA, PTZ</p>

**NOTE: @ INDICATES SIGNAL HEAD NUMBER)**

**POLES**

EXISTING O      REQUIRED O



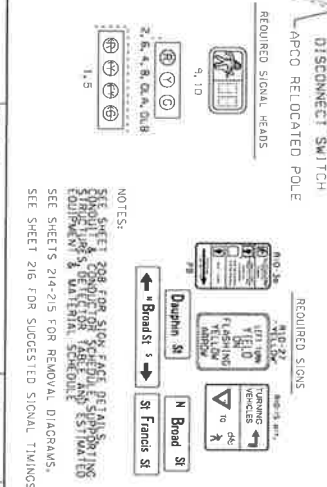
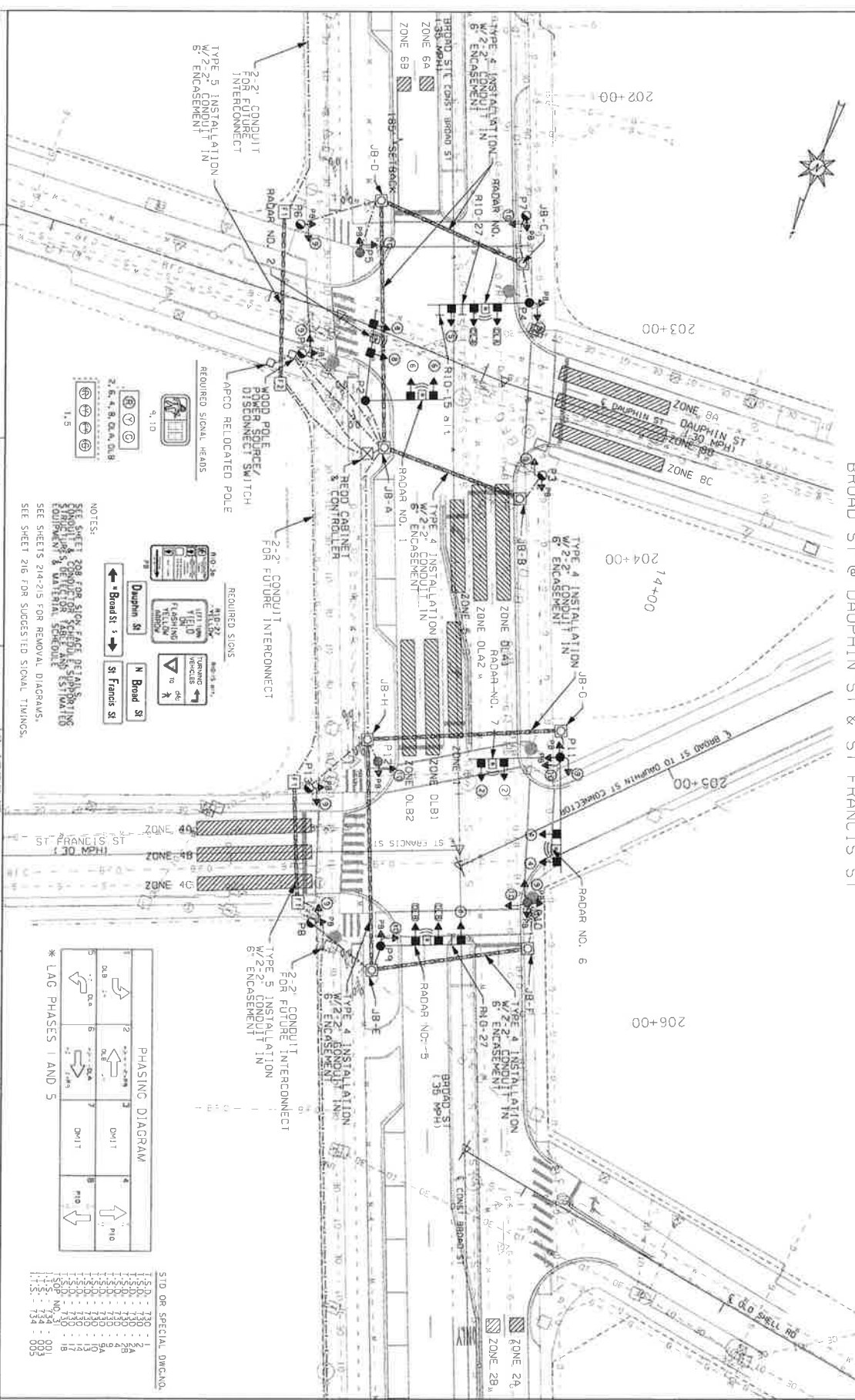


INTERSECTION #2

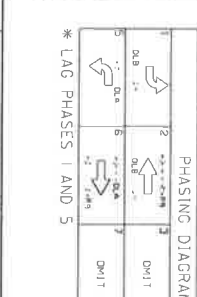
TRAFFIC SIGNAL LAYOUT SHEET

BROAD ST @ DAUPHIN ST & ST FRANCIS ST

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
2018-3005-01	2019	207



NOTES:  
 SEE SHEET 206 FOR SLOW FASH PRELIMINARY SIGNAGE SCHEDULE FOR REMOVAL AND INSTALLATION OF MATERIAL SCHEDULE.  
 SEE SHEETS 214-215 FOR REMOVAL DIAGRAMS.  
 SEE SHEET 216 FOR SUGGESTED SIGNAL TIMINGS.



STD OR SPECIAL DWG. NO.

115.0	730	1
115.0	730	2
115.0	730	3
115.0	730	4
115.0	730	5
115.0	730	6
115.0	730	7
115.0	730	8
115.0	730	9
115.0	730	10
115.0	730	11
115.0	730	12
115.0	730	13
115.0	730	14
115.0	730	15
115.0	730	16
115.0	730	17
115.0	730	18
115.0	730	19
115.0	730	20
115.0	730	21
115.0	730	22
115.0	730	23
115.0	730	24
115.0	730	25
115.0	730	26
115.0	730	27
115.0	730	28
115.0	730	29
115.0	730	30
115.0	730	31
115.0	730	32
115.0	730	33
115.0	730	34
115.0	730	35
115.0	730	36
115.0	730	37
115.0	730	38
115.0	730	39
115.0	730	40
115.0	730	41
115.0	730	42
115.0	730	43
115.0	730	44
115.0	730	45
115.0	730	46
115.0	730	47
115.0	730	48
115.0	730	49
115.0	730	50

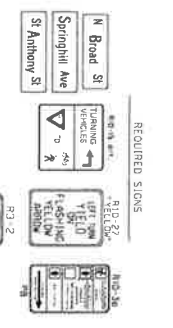
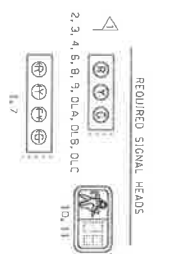
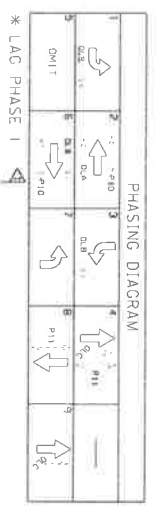
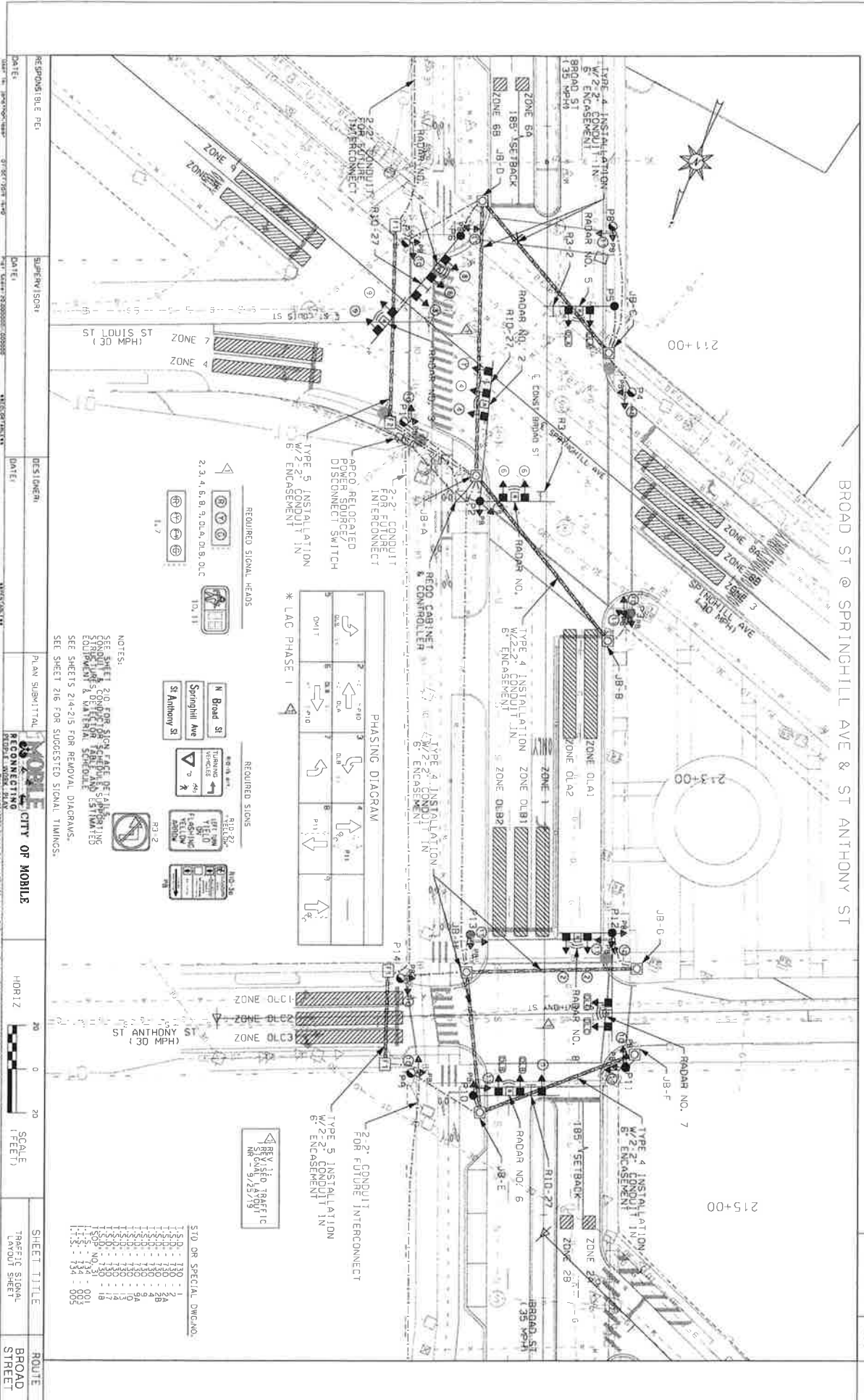
RESPONSIBLE PE:	DATE:	DESIGNER:	DATE:	SCALE:	SHEET TITLE:	ROUTE:
DATE: 2/24/2019 11:37	DATE: 02/20/2019 09:00:00	DATE:	DATE:	HDR 12	TRAFFIC SIGNAL LAYOUT SHEET	BROAD STREET



INTERSECTION #3

# TRAFFIC SIGNAL LAYOUT SHEET

BROAD ST @ SPRINGHILL AVE & ST ANTHONY ST

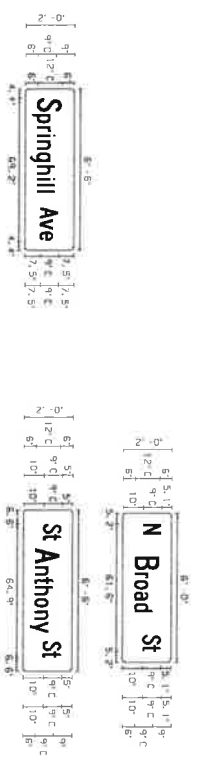


NOTES:  
 1. SEE SHEET 216 FOR SIGNAL PHASING & REMOVAL SCHEDULES.  
 2. SEE SHEET 214-215 FOR REMOVAL DIAGRAMS.  
 3. SEE SHEET 216 FOR SUGGESTED SIGNAL TIMINGS.

DESIGNED BY	DATE	DESIGNER	DATE	INTERVIEW	DATE	PLAN SUBMITTAL	DATE	SCALE	SHEET TITLE	ROUTE
REVISIONS	DATE	BY	DATE	BY	DATE	BY	DATE	TRAFFIC SIGNAL LAYOUT SHEET	BROAD STREET	

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
2018-3005-01	2019	209

STD DR SPECIAL DWGNO.	
1-135-134-005	
1-135-134-001	
1-135-134-002	
1-135-134-003	
1-135-134-004	
1-135-134-005	
1-135-134-006	
1-135-134-007	
1-135-134-008	
1-135-134-009	
1-135-134-010	
1-135-134-011	
1-135-134-012	
1-135-134-013	
1-135-134-014	
1-135-134-015	
1-135-134-016	
1-135-134-017	
1-135-134-018	
1-135-134-019	
1-135-134-020	
1-135-134-021	
1-135-134-022	
1-135-134-023	
1-135-134-024	
1-135-134-025	
1-135-134-026	
1-135-134-027	
1-135-134-028	
1-135-134-029	
1-135-134-030	



BACKGROUND: GREEN LETTERS: WHITE

SUPPORTING STRUCTURES PROVIDED BY CITY

POLE NO	POLE HEIGHT	STATION	OFFSET	MAST ARM LENGTH	LUMINAIRE LENGTH
P1	8	211+26	66 RT	38.65	31.00
P2	10	211+23	21 RT	40.1	31.00
P3	10	211+23	40 LT	40.1	31.00
P4	8	210+83	32 LT	35	31.00
P5	8	210+51	40 RT	65	31.00
P6	8	210+51	66 RT	65	31.00
P7	8	210+47	31 LT	40	31.00
P8	8	214+35	62 RT	40	31.00
P9	8	214+35	33 RT	40	31.00
P10	8	214+32	38 LT	40	31.00
P11	8	213+71	32 LT	28.50	31.00
P12	8	213+72	67 RT	28.50	31.00
P13	8	213+92	67 RT	28.50	31.00

DETECTOR TABLE

ZONE	PHASE	TYPE	DELAY	RADAR NO.	SETRACK DISTANCE
1	1	6X50 PRESENCE	5	5	0
2A, 2B	2	6X50 PULSE	8	8	185
OLA1, OLA2	2	6X50 PRESENCE	5	5	0
3	3	6X50 PRESENCE	4	4	0
OLA3, OLA4	4	6X50 PRESENCE	4	4	0
5A, 5B	5	6X50 PULSE	7	7	185
OLA5, OLA6	5	6X50 PRESENCE	5	5	0
6A, 6B	6	6X50 PRESENCE	2	2	0
7	7	6X50 PRESENCE	4	4	0
8A, 8B	8	6X50 PRESENCE	3	3	0
9	9	6X50 PRESENCE	3	3	0

ESTIMATED EQUIPMENT AND MATERIAL SCHEDULE

#14 SIGNAL CABLE (MSA 20-1)	BACK PLATES W/ ATTACHMENTS
R10-27 R10-15 ALT. R10-36 SIGNS AND STREET SIGNS	MISCELLANEOUS HARDWARE
PUSH BUTTON ASSEMBLIES	POWER SOURCE (240 VOLTS)

CONDUIT AND CONDUCTOR SCHEDULE

CONDUIT	CONDUCTOR	FROM	TO
1-1 IN	1-30NO 8 AWG	DISCONNECT	CONTROLLER JB-A
2-2 IN	2-30NO 8 AWG	DISCONNECT	POLES #1 #2
2-2 IN	2-30NO 8 AWG	DISCONNECT	POLES #3 #4
2-2 IN	2-30NO 8 AWG	DISCONNECT	POLES #5 #6
2-2 IN	2-30NO 8 AWG	DISCONNECT	POLES #7 #8
2-2 IN	2-30NO 8 AWG	DISCONNECT	POLES #9 #10
2-2 IN	2-30NO 8 AWG	DISCONNECT	POLES #11 #12
2-2 IN	2-30NO 8 AWG	DISCONNECT	POLES #13 #14
2-2 IN	2-30NO 8 AWG	DISCONNECT	POLES #15 #16
2-2 IN	2-30NO 8 AWG	DISCONNECT	POLES #17 #18
2-2 IN	2-30NO 8 AWG	DISCONNECT	POLES #19 #20
2-2 IN	2-30NO 8 AWG	DISCONNECT	POLES #21 #22
2-2 IN	2-30NO 8 AWG	DISCONNECT	POLES #23 #24
2-2 IN	2-30NO 8 AWG	DISCONNECT	POLES #25 #26
2-2 IN	2-30NO 8 AWG	DISCONNECT	POLES #27 #28
2-2 IN	2-30NO 8 AWG	DISCONNECT	POLES #29 #30
2-2 IN	2-30NO 8 AWG	DISCONNECT	POLES #31 #32
2-2 IN	2-30NO 8 AWG	DISCONNECT	POLES #33 #34
2-2 IN	2-30NO 8 AWG	DISCONNECT	POLES #35 #36
2-2 IN	2-30NO 8 AWG	DISCONNECT	POLES #37 #38
2-2 IN	2-30NO 8 AWG	DISCONNECT	POLES #39 #40
2-2 IN	2-30NO 8 AWG	DISCONNECT	POLES #41 #42
2-2 IN	2-30NO 8 AWG	DISCONNECT	POLES #43 #44
2-2 IN	2-30NO 8 AWG	DISCONNECT	POLES #45 #46
2-2 IN	2-30NO 8 AWG	DISCONNECT	POLES #47 #48
2-2 IN	2-30NO 8 AWG	DISCONNECT	POLES #49 #50
2-2 IN	2-30NO 8 AWG	DISCONNECT	POLES #51 #52
2-2 IN	2-30NO 8 AWG	DISCONNECT	POLES #53 #54
2-2 IN	2-30NO 8 AWG	DISCONNECT	POLES #55 #56
2-2 IN	2-30NO 8 AWG	DISCONNECT	POLES #57 #58
2-2 IN	2-30NO 8 AWG	DISCONNECT	POLES #59 #60
2-2 IN	2-30NO 8 AWG	DISCONNECT	POLES #61 #62
2-2 IN	2-30NO 8 AWG	DISCONNECT	POLES #63 #64
2-2 IN	2-30NO 8 AWG	DISCONNECT	POLES #65 #66
2-2 IN	2-30NO 8 AWG	DISCONNECT	POLES #67 #68
2-2 IN	2-30NO 8 AWG	DISCONNECT	POLES #69 #70
2-2 IN	2-30NO 8 AWG	DISCONNECT	POLES #71 #72
2-2 IN	2-30NO 8 AWG	DISCONNECT	POLES #73 #74
2-2 IN	2-30NO 8 AWG	DISCONNECT	POLES #75 #76
2-2 IN	2-30NO 8 AWG	DISCONNECT	POLES #77 #78
2-2 IN	2-30NO 8 AWG	DISCONNECT	POLES #79 #80
2-2 IN	2-30NO 8 AWG	DISCONNECT	POLES #81 #82
2-2 IN	2-30NO 8 AWG	DISCONNECT	POLES #83 #84
2-2 IN	2-30NO 8 AWG	DISCONNECT	POLES #85 #86
2-2 IN	2-30NO 8 AWG	DISCONNECT	POLES #87 #88
2-2 IN	2-30NO 8 AWG	DISCONNECT	POLES #89 #90
2-2 IN	2-30NO 8 AWG	DISCONNECT	POLES #91 #92
2-2 IN	2-30NO 8 AWG	DISCONNECT	POLES #93 #94
2-2 IN	2-30NO 8 AWG	DISCONNECT	POLES #95 #96
2-2 IN	2-30NO 8 AWG	DISCONNECT	POLES #97 #98
2-2 IN	2-30NO 8 AWG	DISCONNECT	POLES #99 #100

NOTES:  
 1. FURNISH ALL SIGNAL HEADS, PHASE PROVIDING SIGNAL AND POWER POLES FROM THE CITY OF MOBILE'S MAINTENANCE DEPARTMENT.  
 2. THE CONTRACTOR WILL BE RESPONSIBLE FOR INSPECTING POLES PRIOR TO INSTALLING AND VERIFYING SIGNAL HEADS, PHASE PROVIDING SIGNAL AND POWER POLES AND INSTALLING AND VERIFYING SIGNAL HEADS, PHASE PROVIDING SIGNAL AND POWER POLES AND/OR INSTALLED SIGNALS BE REPAIRED OR REPLACED BY THE CONTRACTOR AT HIS OWN EXPENSE.  
 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE OPERATIONAL STATUS OF THE TRAFFIC SIGNALS AND PROVIDING A WRITTEN REPORT TO THE CITY OF MOBILE'S MAINTENANCE DEPARTMENT.  
 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE OPERATIONAL STATUS OF THE TRAFFIC SIGNALS AND PROVIDING A WRITTEN REPORT TO THE CITY OF MOBILE'S MAINTENANCE DEPARTMENT.  
 5. SEE SHEETS 214-215 FOR REMOVAL DIAGRAMS.  
 6. SEE SHEET 216 FOR SUGGESTED SIGNAL TIMINGS.



RESPONSIBLE PE: DATE: SHEET NO: 210

DESIGNER: DATE: SHEET NO: 210

PLAN SUBMITTAL: CITY OF MOBILE

HORIZ SCALE: 1" = 20'

SHEET TITLE: TRAFFIC SIGNAL LAYOUT SHEET

ROUTE: BROAD STREET

INTERSECTION #4

# TRAFFIC SIGNAL LAYOUT SHEET

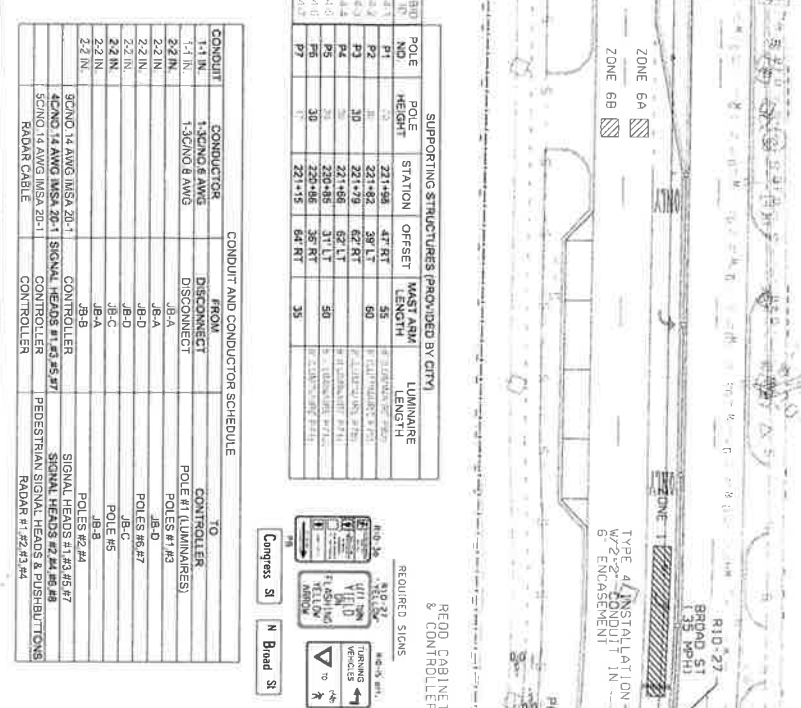
BROAD ST. @ CONGRESS ST.

REFERENCE PROJECT NO.	2018-3005-01
FISCAL YEAR	2019
SHEET NO.	211

NOTES:  
 CONTRACTOR SHALL RETRIEVE OWNER PROVIDED SIGNAL AND PEDESTAL POLES ABOVE THE CITY OF MOBILE'S RECORD DRAWING FOR THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION, STORAGE, AND INSTALLATION OF ALL SIGNAL AND PEDESTAL POLES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION, STORAGE, AND INSTALLATION OF ALL SIGNAL AND PEDESTAL POLES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION, STORAGE, AND INSTALLATION OF ALL SIGNAL AND PEDESTAL POLES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION, STORAGE, AND INSTALLATION OF ALL SIGNAL AND PEDESTAL POLES.

ESTIMATED EQUIPMENT AND MATERIAL SCHEDULE

1	TRAFFIC SIGNAL CABINET	1
2	TRAFFIC SIGNAL CABINET	1
3	TRAFFIC SIGNAL CABINET	1
4	TRAFFIC SIGNAL CABINET	1
5	TRAFFIC SIGNAL CABINET	1
6	TRAFFIC SIGNAL CABINET	1
7	TRAFFIC SIGNAL CABINET	1
8	TRAFFIC SIGNAL CABINET	1
9	TRAFFIC SIGNAL CABINET	1
10	TRAFFIC SIGNAL CABINET	1



REQUIRED SIGNAL HEADS

1	9, 10
2	2, 4, 5, 9
3	1, 3, 5, 7

DETECTOR TABLE

ZONE	PHASE	SIZE	TYPE	DELAY	RADAR NO.	SETBACK
1	1	6X6	PRESENCE		1	185
2A, 2B	2	6X6	PULSE		2	0
3	3	6X6	PRESENCE		3	0
4	4	6X6	PRESENCE		4	0
5	5	6X6	PRESENCE		5	185
6A, 6B	6	6X6	PULSE		6	0
7	7	6X6	PRESENCE		7	0
8A, 8B	8	6X6	PRESENCE		8	0

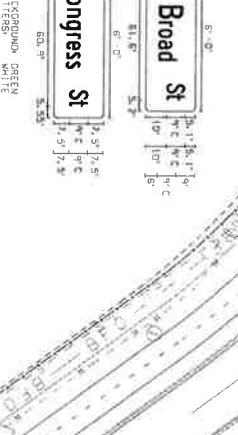
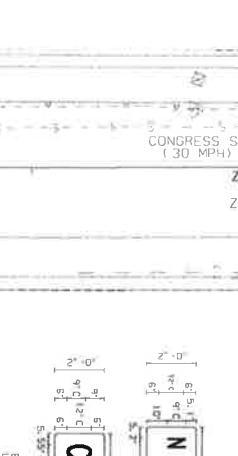


SUPPORTING STRUCTURES PROVIDED BY CITY

POLE NO.	STATION	HEIGHT	OFFSET	LAST ARM LENGTH	LUMINAIRE LENGTH
P1	221+56	47' RT	55	50	50
P2	221+82	38' LT	50	50	50
P3	221+79	62' RT	50	50	50
P4	221+86	62' LT	50	50	50
P5	220+85	31' LT	50	50	50
P6	220+85	38' RT	50	50	50
P7	221+15	64' RT	35	50	50

CONDUIT AND CONDUCTOR SCHEDULE

CONDUIT	CONDUCTORS	FROM	TO
1-1 IN	1-3 INGS AWG	DISCONNECT	POLE #1 (LUMINAIRE)
2-2 IN	1-3 INGS AWG	DISCONNECT	POLE #1 #3
2-2 IN	1-3 INGS AWG	DISCONNECT	POLE #2 #2
2-2 IN	1-3 INGS AWG	DISCONNECT	POLE #3 #2
2-2 IN	1-3 INGS AWG	DISCONNECT	POLE #4 #2
2-2 IN	1-3 INGS AWG	DISCONNECT	POLE #5 #2
2-2 IN	1-3 INGS AWG	DISCONNECT	POLE #6 #2
2-2 IN	1-3 INGS AWG	DISCONNECT	POLE #7 #2
2-2 IN	1-3 INGS AWG	DISCONNECT	POLE #8 #2
2-2 IN	1-3 INGS AWG	DISCONNECT	POLE #9 #2
2-2 IN	1-3 INGS AWG	DISCONNECT	POLE #10 #2
2-2 IN	1-3 INGS AWG	DISCONNECT	POLE #11 #2
2-2 IN	1-3 INGS AWG	DISCONNECT	POLE #12 #2
2-2 IN	1-3 INGS AWG	DISCONNECT	POLE #13 #2
2-2 IN	1-3 INGS AWG	DISCONNECT	POLE #14 #2
2-2 IN	1-3 INGS AWG	DISCONNECT	POLE #15 #2
2-2 IN	1-3 INGS AWG	DISCONNECT	POLE #16 #2
2-2 IN	1-3 INGS AWG	DISCONNECT	POLE #17 #2
2-2 IN	1-3 INGS AWG	DISCONNECT	POLE #18 #2
2-2 IN	1-3 INGS AWG	DISCONNECT	POLE #19 #2
2-2 IN	1-3 INGS AWG	DISCONNECT	POLE #20 #2
2-2 IN	1-3 INGS AWG	DISCONNECT	POLE #21 #2
2-2 IN	1-3 INGS AWG	DISCONNECT	POLE #22 #2
2-2 IN	1-3 INGS AWG	DISCONNECT	POLE #23 #2
2-2 IN	1-3 INGS AWG	DISCONNECT	POLE #24 #2
2-2 IN	1-3 INGS AWG	DISCONNECT	POLE #25 #2
2-2 IN	1-3 INGS AWG	DISCONNECT	POLE #26 #2
2-2 IN	1-3 INGS AWG	DISCONNECT	POLE #27 #2
2-2 IN	1-3 INGS AWG	DISCONNECT	POLE #28 #2
2-2 IN	1-3 INGS AWG	DISCONNECT	POLE #29 #2
2-2 IN	1-3 INGS AWG	DISCONNECT	POLE #30 #2
2-2 IN	1-3 INGS AWG	DISCONNECT	POLE #31 #2
2-2 IN	1-3 INGS AWG	DISCONNECT	POLE #32 #2
2-2 IN	1-3 INGS AWG	DISCONNECT	POLE #33 #2
2-2 IN	1-3 INGS AWG	DISCONNECT	POLE #34 #2
2-2 IN	1-3 INGS AWG	DISCONNECT	POLE #35 #2
2-2 IN	1-3 INGS AWG	DISCONNECT	POLE #36 #2
2-2 IN	1-3 INGS AWG	DISCONNECT	POLE #37 #2
2-2 IN	1-3 INGS AWG	DISCONNECT	POLE #38 #2
2-2 IN	1-3 INGS AWG	DISCONNECT	POLE #39 #2
2-2 IN	1-3 INGS AWG	DISCONNECT	POLE #40 #2
2-2 IN	1-3 INGS AWG	DISCONNECT	POLE #41 #2
2-2 IN	1-3 INGS AWG	DISCONNECT	POLE #42 #2
2-2 IN	1-3 INGS AWG	DISCONNECT	POLE #43 #2
2-2 IN	1-3 INGS AWG	DISCONNECT	POLE #44 #2
2-2 IN	1-3 INGS AWG	DISCONNECT	POLE #45 #2
2-2 IN	1-3 INGS AWG	DISCONNECT	POLE #46 #2
2-2 IN	1-3 INGS AWG	DISCONNECT	POLE #47 #2
2-2 IN	1-3 INGS AWG	DISCONNECT	POLE #48 #2
2-2 IN	1-3 INGS AWG	DISCONNECT	POLE #49 #2
2-2 IN	1-3 INGS AWG	DISCONNECT	POLE #50 #2
2-2 IN	1-3 INGS AWG	DISCONNECT	POLE #51 #2
2-2 IN	1-3 INGS AWG	DISCONNECT	POLE #52 #2
2-2 IN	1-3 INGS AWG	DISCONNECT	POLE #53 #2
2-2 IN	1-3 INGS AWG	DISCONNECT	POLE #54 #2
2-2 IN	1-3 INGS AWG	DISCONNECT	POLE #55 #2
2-2 IN	1-3 INGS AWG	DISCONNECT	POLE #56 #2
2-2 IN	1-3 INGS AWG	DISCONNECT	POLE #57 #2
2-2 IN	1-3 INGS AWG	DISCONNECT	POLE #58 #2
2-2 IN	1-3 INGS AWG	DISCONNECT	POLE #59 #2
2-2 IN	1-3 INGS AWG	DISCONNECT	POLE #60 #2
2-2 IN	1-3 INGS AWG	DISCONNECT	POLE #61 #2
2-2 IN	1-3 INGS AWG	DISCONNECT	POLE #62 #2
2-2 IN	1-3 INGS AWG	DISCONNECT	POLE #63 #2
2-2 IN	1-3 INGS AWG	DISCONNECT	POLE #64 #2
2-2 IN	1-3 INGS AWG	DISCONNECT	POLE #65 #2
2-2 IN	1-3 INGS AWG	DISCONNECT	POLE #66 #2
2-2 IN	1-3 INGS AWG	DISCONNECT	POLE #67 #2
2-2 IN	1-3 INGS AWG	DISCONNECT	POLE #68 #2
2-2 IN	1-3 INGS AWG	DISCONNECT	POLE #69 #2
2-2 IN	1-3 INGS AWG	DISCONNECT	POLE #70 #2
2-2 IN	1-3 INGS AWG	DISCONNECT	POLE #71 #2
2-2 IN	1-3 INGS AWG	DISCONNECT	POLE #72 #2
2-2 IN	1-3 INGS AWG	DISCONNECT	POLE #73 #2
2-2 IN	1-3 INGS AWG	DISCONNECT	POLE #74 #2
2-2 IN	1-3 INGS AWG	DISCONNECT	POLE #75 #2
2-2 IN	1-3 INGS AWG	DISCONNECT	POLE #76 #2
2-2 IN	1-3 INGS AWG	DISCONNECT	POLE #77 #2
2-2 IN	1-3 INGS AWG	DISCONNECT	POLE #78 #2
2-2 IN	1-3 INGS AWG	DISCONNECT	POLE #79 #2
2-2 IN	1-3 INGS AWG	DISCONNECT	POLE #80 #2
2-2 IN	1-3 INGS AWG	DISCONNECT	POLE #81 #2
2-2 IN	1-3 INGS AWG	DISCONNECT	POLE #82 #2
2-2 IN	1-3 INGS AWG	DISCONNECT	POLE #83 #2
2-2 IN	1-3 INGS AWG	DISCONNECT	POLE #84 #2
2-2 IN	1-3 INGS AWG	DISCONNECT	POLE #85 #2
2-2 IN	1-3 INGS AWG	DISCONNECT	POLE #86 #2
2-2 IN	1-3 INGS AWG	DISCONNECT	POLE #87 #2
2-2 IN	1-3 INGS AWG	DISCONNECT	POLE #88 #2
2-2 IN	1-3 INGS AWG	DISCONNECT	POLE #89 #2
2-2 IN	1-3 INGS AWG	DISCONNECT	POLE #90 #2
2-2 IN	1-3 INGS AWG	DISCONNECT	POLE #91 #2
2-2 IN	1-3 INGS AWG	DISCONNECT	POLE #92 #2
2-2 IN	1-3 INGS AWG	DISCONNECT	POLE #93 #2
2-2 IN	1-3 INGS AWG	DISCONNECT	POLE #94 #2
2-2 IN	1-3 INGS AWG	DISCONNECT	POLE #95 #2
2-2 IN	1-3 INGS AWG	DISCONNECT	POLE #96 #2
2-2 IN	1-3 INGS AWG	DISCONNECT	POLE #97 #2
2-2 IN	1-3 INGS AWG	DISCONNECT	POLE #98 #2
2-2 IN	1-3 INGS AWG	DISCONNECT	POLE #99 #2
2-2 IN	1-3 INGS AWG	DISCONNECT	POLE #100 #2



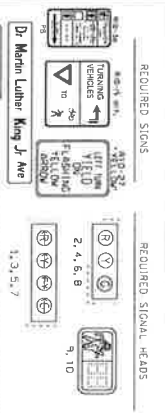
RESPONSIBLE PE: SUPERVISOR  
 DATE: 11/14/18  
 DESIGNER: DATE: 11/14/18  
 PLAN SUBMITTAL: DATE: 11/14/18  
 CITY OF MOBILE  
 HOR 12  
 SCALE: 1" = 20'  
 SHEET TITLE: BROAD STREET TRAFFIC SIGNAL LAYOUT SHEET

INTERSECTION #5

# TRAFFIC SIGNAL LAYOUT SHEET

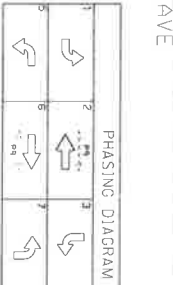
BROAD ST @ DR MLK JR AVE

REFERENCE PROJECT NO. 2018-3005-01  
FISCAL YEAR 2019  
SHEET NO. 212



**ESTIMATED EQUIPMENT AND MATERIALS SCHEDULE**

614 SIGNAL CABLE WGA 201  
BACK PLATES W/ ATTACHMENTS  
R10-27 R10-15 ALT. R10-26 SIGNS AND STREET SIGNS  
MISCELLANEOUS HARDWARE  
PUSH BUTTON ASSEMBLIES  
POWER SOURCE (240 VOLTS)

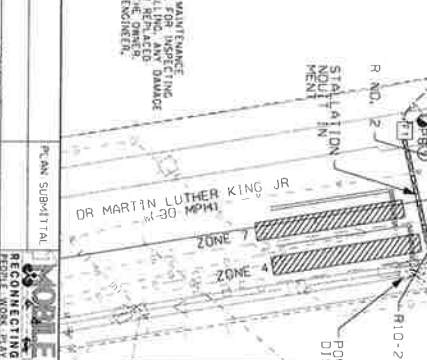


SUPPORTING STRUCTURES PROVIDED BY CITY

POLE NO.	POLE HEIGHT	STATION	OFFSET	WEST ARM LENGTH	LUMINAIRE LENGTH
P1	51.1	237+00	47.87	48.55	71.11
P2	51.1	238+22	40.17	59.55	71.11
P3	51.1	238+06	46.81	59.55	71.11
P4	51.1	238+06	46.81	59.55	71.11
P5	51.1	238+26	63.17	59.55	71.11
P6	51.1	238+75	62.17	59.55	71.11
P7	51.1	237+01	41.17	59.55	71.11
P8	51.1	238+45	67.81	59.55	71.11

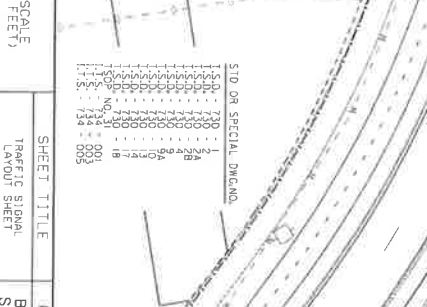
CONDUIT AND CONDUCTOR SCHEDULE

CONDUIT	FROM DISCONNECT	TO CONTROLLER
1.50 IN. 1.50 IN. 1.50 IN. 2.2 IN. 2.2 IN. 2.2 IN. 2.2 IN. 2.2 IN.	DISCONNECT	POLE #1 POLE #3/5/6 POLE #2/4/5 POLE #7/8 POLE #9/10



DETECTOR TABLE

ZONE	PHASE	SIZE	TYPE	DELAY	RADAR NO.	SETBACK DISTANCE
1	1	6X30	PRESENCE		1	0
2	2	6X30	PRESENCE		3	185
3	3	6X30	PRESENCE		3	0
4	4	6X30	PRESENCE		4	0
5	5	6X30	PRESENCE		3	0
6	6	6X30	PRESENCE		4	185
7	7	6X30	PULSE		1	0
8	8	6X30	PRESENCE		2	0



NOTES:  
CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY OF MOBILE.  
FACILITY LOCATED AT 854 GALE STREET, MOBILE, ALABAMA 36684. THE CONTRACTOR WILL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY OF MOBILE.  
BY THE CONTRACTOR AT HIS OWN EXPENSE TO THE OWNER. REPAIR OR REPLACEMENT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.  
THE CONTRACTOR SHALL COORDINATE PICKUP AND DELIVERY TO THE PROJECT SITE WITH MOBILE TRAFFIC ENGINEER.  
PHONE NUMBER: 937-208-2900.  
SEE SHEETS 214-219 FOR REMOVAL DIAGRAMS.  
SEE SHEET 216 FOR SUGGESTED SIGNAL TIMINGS.

RESPONSIBLE PE: \_\_\_\_\_ DATE: \_\_\_\_\_

SUPERVISOR: \_\_\_\_\_ DATE: \_\_\_\_\_

DESIGNER: \_\_\_\_\_ DATE: \_\_\_\_\_

PLAN SUBMITTAL: \_\_\_\_\_

RECONNECTING: \_\_\_\_\_

CITY OF MOBILE

HORIZ SCALE: 1" = 20' (FEET)

SHEET TITLE: TRAFFIC SIGNAL CONDUIT SHEET

ROUTE: BROAD STREET





## PROCUREMENT DEPARTMENT

Potential bidders are responsible to check this site for any **ADDENDUMS** that are issued. It is the responsibility of the **BIDDER** to check for, download, and include with their **BID RESPONSE** any and all **ADDENDUMS** that are issued for a specific **BID** published by the City of Mobile. Failure to download and include **ADDENDUMS** in your **BID RESPONSE** may cause your bid to be rejected.

This is a sealed bid. Any responses faxed or e-mailed will be rejected.

This is a sealed bid. Any response must be submitted in a sealed envelope with the bid number and bid opening date on the outside of the envelope.

Any response that arrives improperly marked or with no bid number and opening date on the outside of the delivery or express package and opened in error will be rejected and not considered.

It is the responsibility of the bidder to insure that their bid response is delivered to and received in the Purchasing Department before the date and time of the bid opening.

Be sure to read the **Terms and Conditions**. All bids are **F.O.B. Destination** unless otherwise stated.

Be sure to sign your bid!

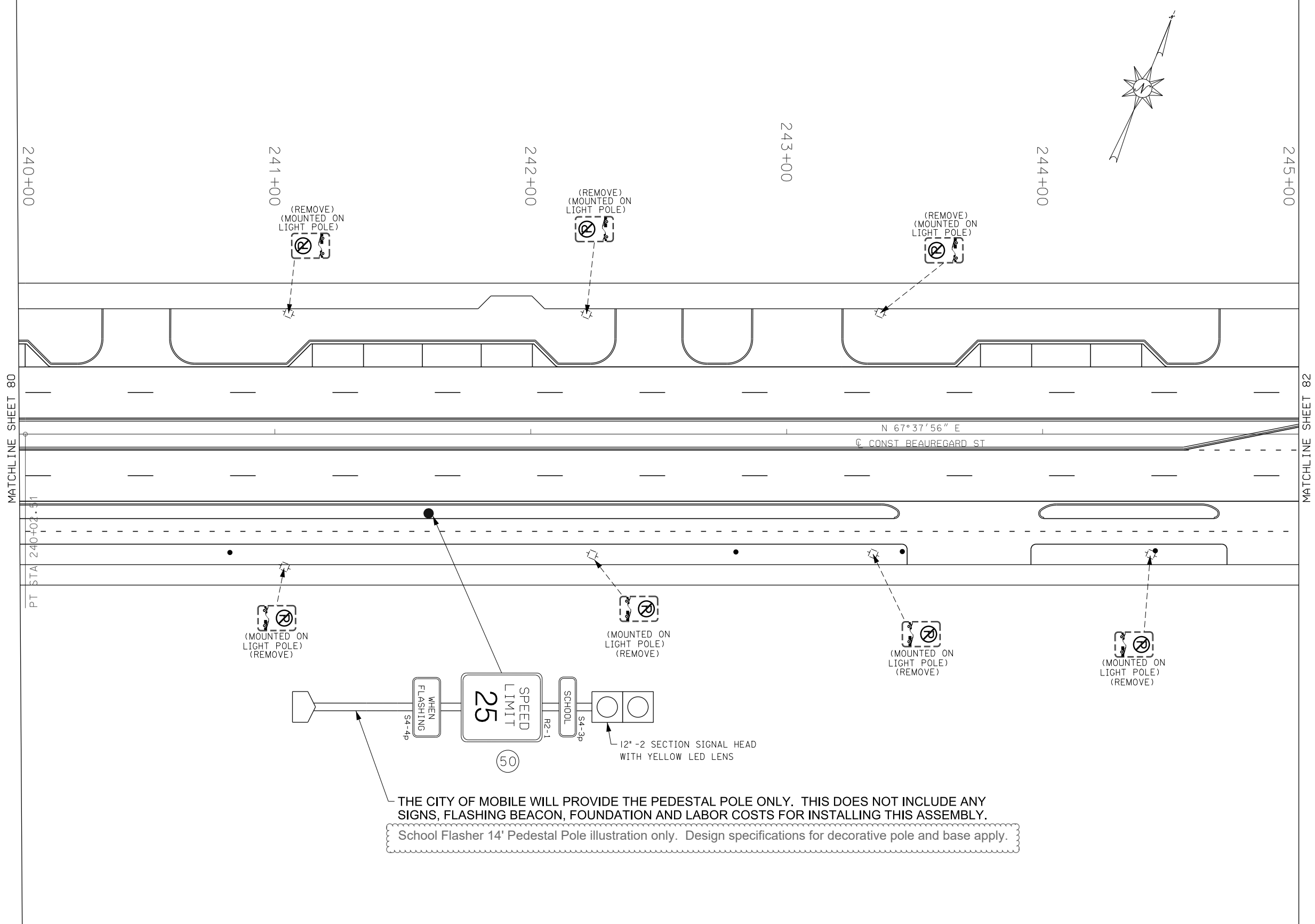
**Package/Bid Delivery Address:**  
**Purchasing Department**  
**205 Government St. Room S408**  
**Mobile, AL 36644**

**(Request First Delivery)**



# SIGNING SHEET

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
2018-3005-01	2019	81



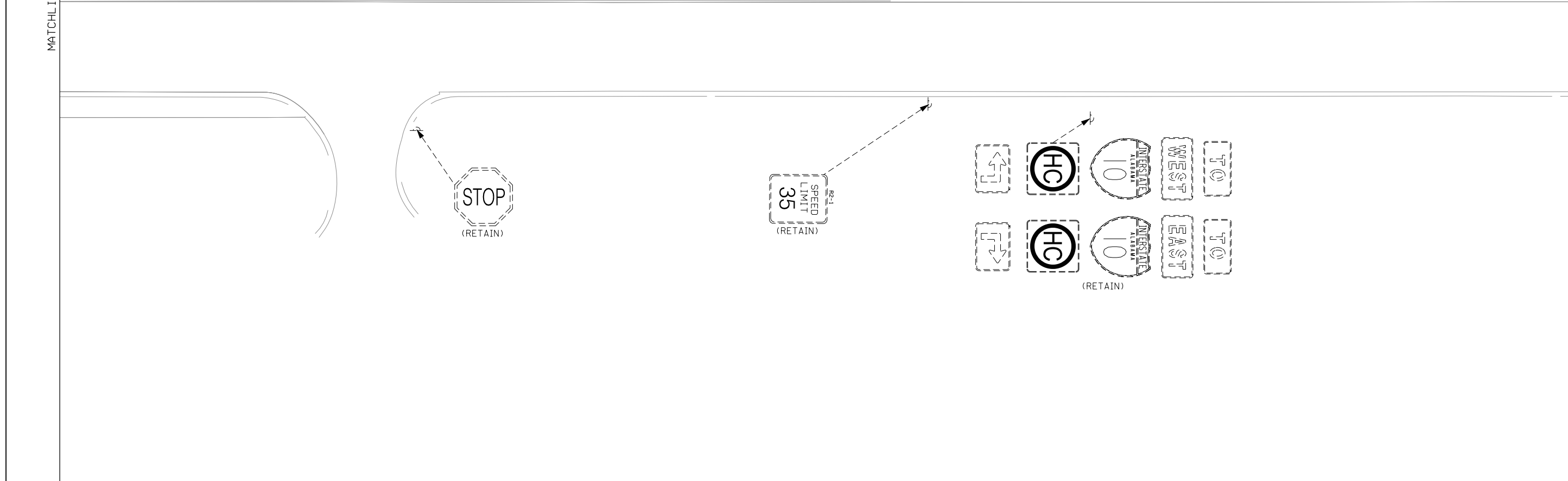
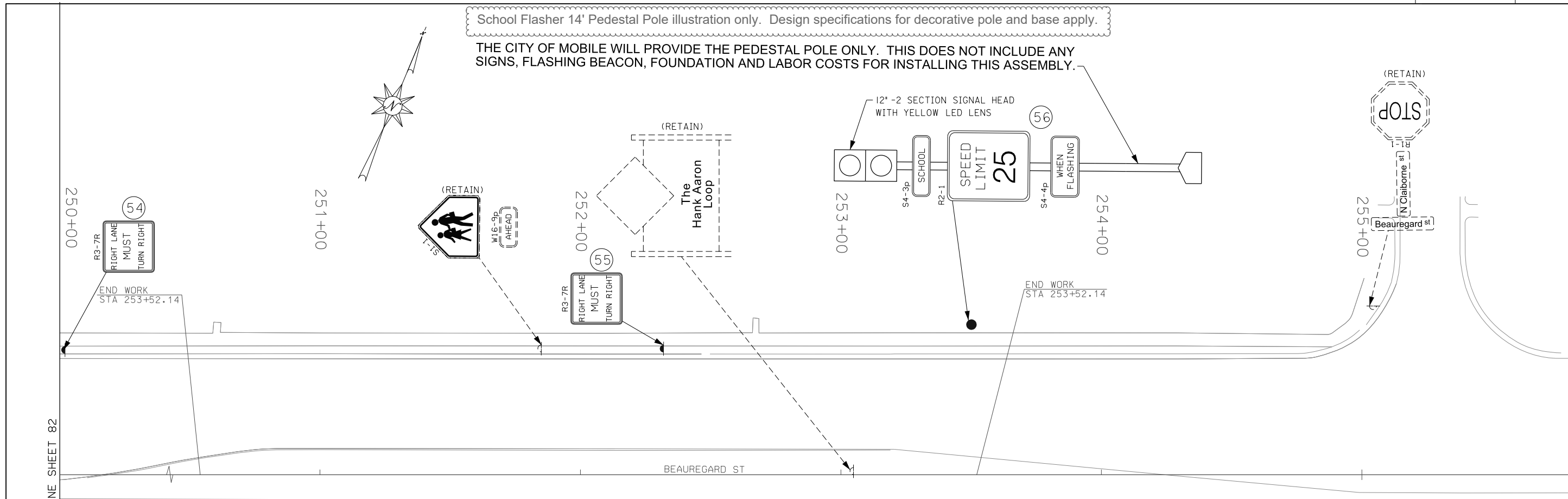
RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL			SHEET TITLE	ROUTE
DATE:	DATE:	DATE:				SIGNING SHEET	BROAD STREET

# SIGNING SHEET

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
2018-3005-01	2019	83

School Flasher 14' Pedestal Pole illustration only. Design specifications for decorative pole and base apply.

THE CITY OF MOBILE WILL PROVIDE THE PEDESTAL POLE ONLY. THIS DOES NOT INCLUDE ANY SIGNS, FLASHING BEACON, FOUNDATION AND LABOR COSTS FOR INSTALLING THIS ASSEMBLY.



MATCHLINE SHEET 82

RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL			SHEET TITLE	ROUTE
DATE:	DATE:	DATE:				SIGNING SHEET	BROAD STREET

# TRAFFIC SIGNAL AND ITS LEGEND

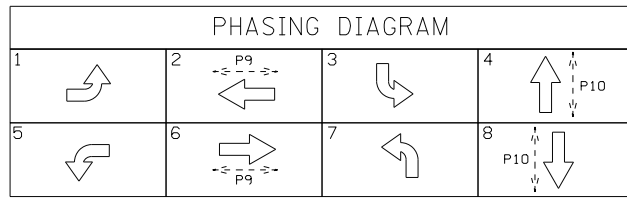
REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
2018-3005-01	2019	205

ELECTRICAL BOXES	MISCELLANEOUS EQUIPMENT	ABBREVIATIONS																																																																																																																																																																																																																																																																																																															
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VEHICLE DETECTION CAMERA	..... VDC	..... VDC																																																																																																																																																																																																																																																																																																															
WESTBOUND ROADWAY	..... WBR	..... WBR																																																																																																																																																																																																																																																																																																															

RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL		NOT TO SCALE	SHEET TITLE	ROUTE
DATE:	DATE:	DATE:		<b>RECONNECTING PEOPLE   WORK   PLAY</b>		TRAFFIC SIGNAL AND ITS LEGEND	BROAD STREET

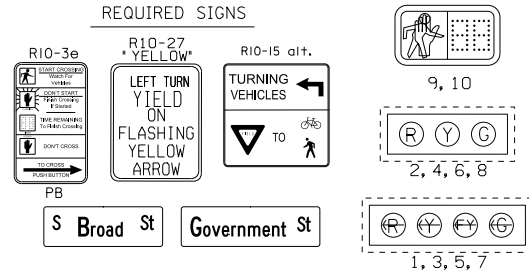
**ESTIMATED EQUIPMENT AND MATERIAL SCHEDULE**

- #14 SIGNAL CABLE, IMSA 20-1
- BACK PLATES W/ ATTACHMENTS
- R10-27, R10-15 ALT, R10-3e SIGNS AND STREET SIGNS
- MISCELLANEOUS HARDWARE
- PUSH BUTTON ASSEMBLIES
- POWER SOURCE (240 VOLTS)



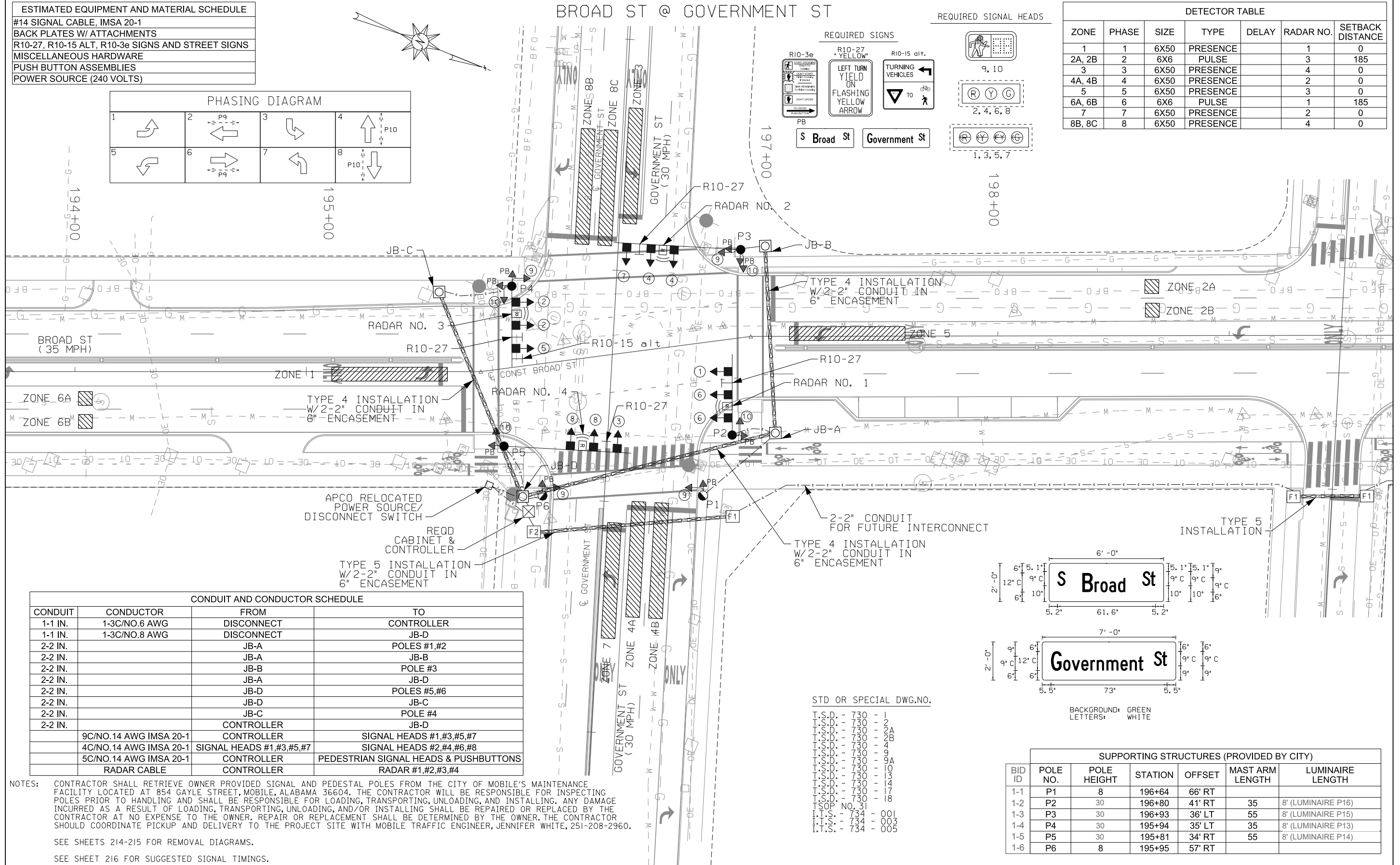
BROAD ST @ GOVERNMENT ST

REQUIRED SIGNAL HEADS



**DETECTOR TABLE**

ZONE	PHASE	SIZE	TYPE	DELAY	RADAR NO.	SETBACK DISTANCE
1	1	6X50	PRESENCE		1	0
2A, 2B	2	6X6	PULSE		3	185
3	3	6X50	PRESENCE		4	0
4A, 4B	4	6X50	PRESENCE		2	0
5	5	6X50	PRESENCE		3	0
6A, 6B	6	6X6	PULSE		1	185
7	7	6X50	PRESENCE		2	0
8B, 8C	8	6X50	PRESENCE		4	0

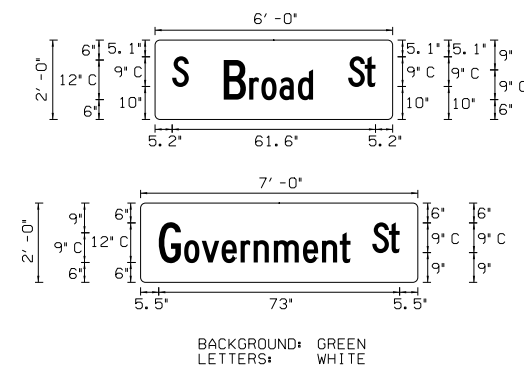


**CONDUIT AND CONDUCTOR SCHEDULE**

CONDUIT	CONDUCTOR	FROM	TO
1-1 IN.	1-3C/NO.6 AWG	DISCONNECT	CONTROLLER
1-1 IN.	1-3C/NO.8 AWG	DISCONNECT	JB-D
2-2 IN.		JB-A	POLES #1,#2
2-2 IN.		JB-A	JB-B
2-2 IN.		JB-B	POLE #3
2-2 IN.		JB-A	JB-D
2-2 IN.		JB-D	POLES #5,#6
2-2 IN.		JB-D	JB-C
2-2 IN.		JB-C	POLE #4
2-2 IN.		CONTROLLER	JB-D
9C/NO.14 AWG IMSA 20-1		CONTROLLER	SIGNAL HEADS #1,#3,#5,#7
4C/NO.14 AWG IMSA 20-1		SIGNAL HEADS #1,#3,#5,#7	SIGNAL HEADS #2,#4,#6,#8
5C/NO.14 AWG IMSA 20-1		CONTROLLER	PEDESTRIAN SIGNAL HEADS & PUSHBUTTONS
		RADAR CABLE	RADAR #1,#2,#3,#4

**NOTES:** CONTRACTOR SHALL RETRIEVE OWNER PROVIDED SIGNAL AND PEDESTAL POLES FROM THE CITY OF MOBILE'S MAINTENANCE FACILITY LOCATED AT 854 GAYLE STREET, MOBILE, ALABAMA 36604. THE CONTRACTOR WILL BE RESPONSIBLE FOR INSPECTING POLES PRIOR TO HANDLING AND SHALL BE RESPONSIBLE FOR LOADING, TRANSPORTING, UNLOADING, AND INSTALLING. ANY DAMAGE INCURRED AS A RESULT OF LOADING, TRANSPORTING, UNLOADING, AND/OR INSTALLING SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT NO EXPENSE TO THE OWNER. REPAIR OR REPLACEMENT SHALL BE DETERMINED BY THE OWNER. THE CONTRACTOR SHOULD COORDINATE PICKUP AND DELIVERY TO THE PROJECT SITE WITH MOBILE TRAFFIC ENGINEER, JENNIFER WHITE, 251-208-2960.

SEE SHEETS 214-215 FOR REMOVAL DIAGRAMS.  
SEE SHEET 216 FOR SUGGESTED SIGNAL TIMINGS.



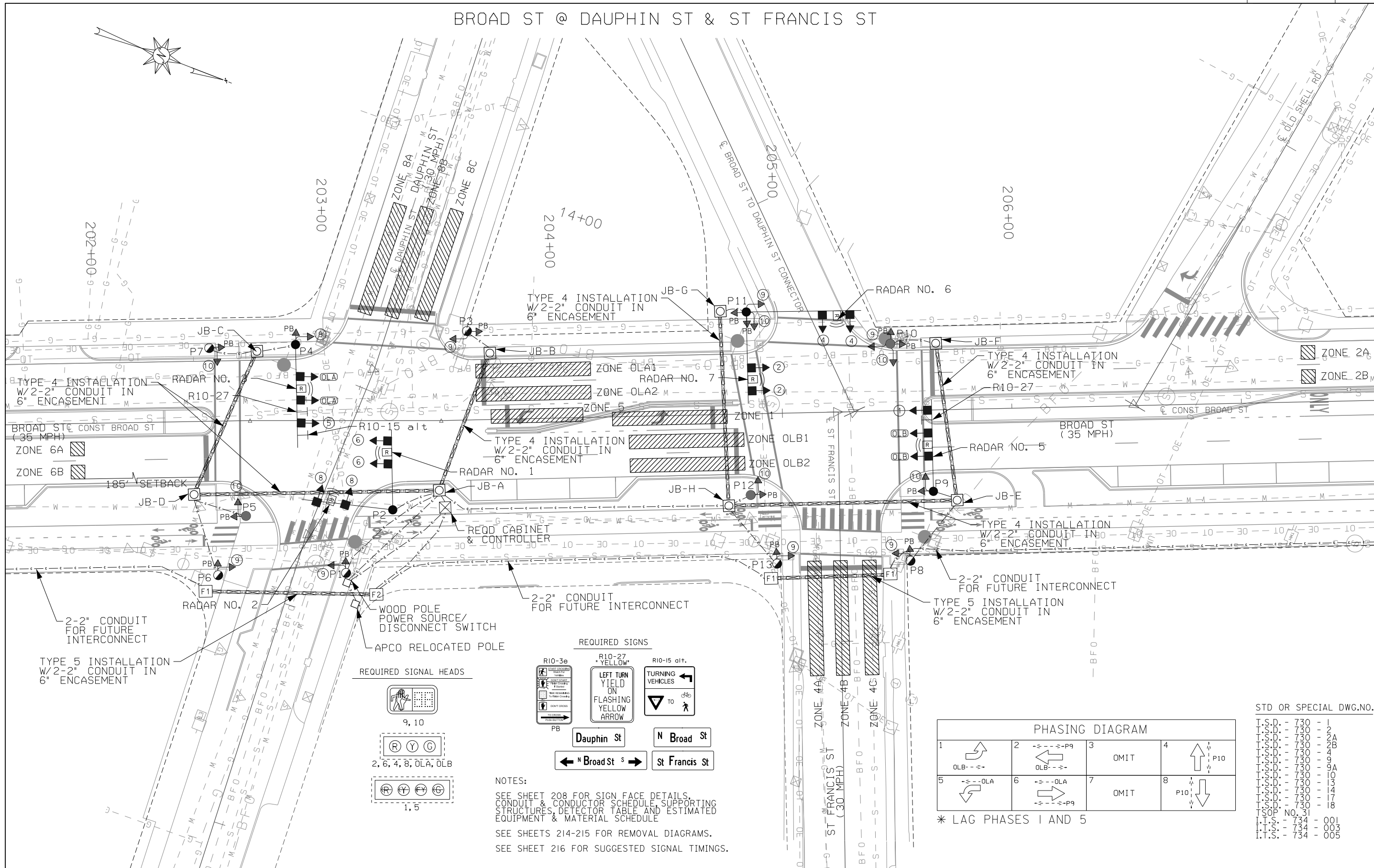
- STD OR SPECIAL DWG.NO.**
- T.S.D. - 730 - 1
  - T.S.D. - 730 - 2
  - T.S.D. - 730 - 3A
  - T.S.D. - 730 - 3B
  - T.S.D. - 730 - 4
  - T.S.D. - 730 - 9
  - T.S.D. - 730 - 9A
  - T.S.D. - 730 - 10
  - T.S.D. - 730 - 13
  - T.S.D. - 730 - 14
  - T.S.D. - 730 - 17
  - T.S.D. - 730 - 18
  - T.S.D. - 730 - 18
  - T.S.D. - 730 - 31
  - T.S. - 734 - 001
  - T.S. - 734 - 003
  - T.S. - 734 - 005

**SUPPORTING STRUCTURES (PROVIDED BY CITY)**

BID ID	POLE NO.	POLE HEIGHT	STATION	OFFSET	MAST ARM LENGTH	LUMINAIRE LENGTH
1-1	P1	8	196+64	66' RT		
1-2	P2	30	196+80	41' RT	35	8' (LUMINAIRE P16)
1-3	P3	30	196+93	36' LT	55	8' (LUMINAIRE P15)
1-4	P4	30	195+94	35' LT	35	8' (LUMINAIRE P13)
1-5	P5	30	195+81	34' RT	55	8' (LUMINAIRE P14)
1-6	P6	8	195+95	57' RT		

RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL:	<b>MOBILE CITY OF MOBILE</b> RECONNECTING PEOPLE   WORK   PLAY	HORIZ SCALE (FEET)	SHEET TITLE	ROUTE
DATE:	DATE:	DATE:				TRAFFIC SIGNAL LAYOUT SHEET	BROAD STREET

BROAD ST @ DAUPHIN ST & ST FRANCIS ST



RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL
DATE:	DATE:	DATE:	

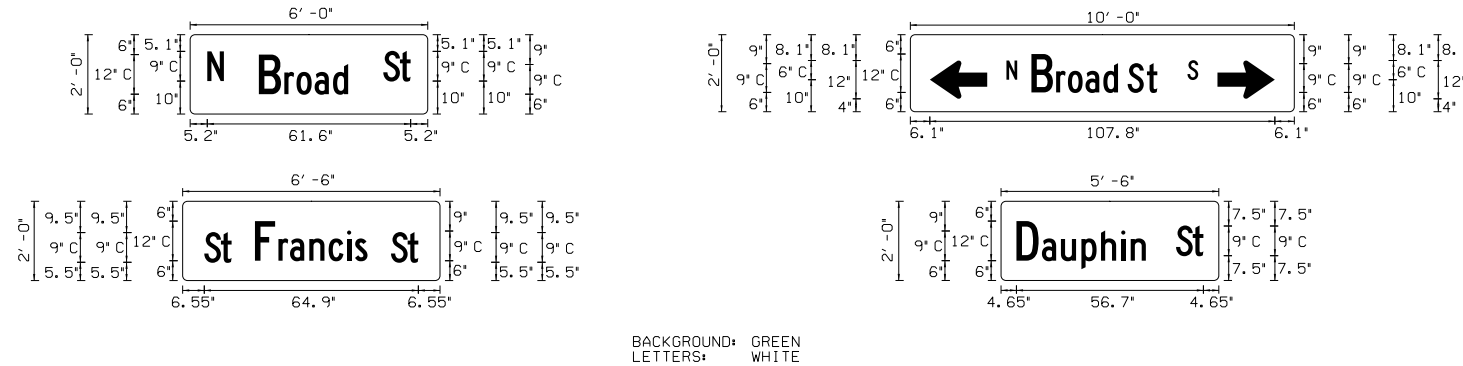
**MOBILE CITY OF MOBILE**  
RECONNECTING PEOPLE | WORK | PLAY



SHEET TITLE	ROUTE
TRAFFIC SIGNAL LAYOUT SHEET	BROAD STREET

STD OR SPECIAL DWG. NO.

I.S.D. - 730 - 1
I.S.D. - 730 - 2
I.S.D. - 730 - 2A
I.S.D. - 730 - 2B
I.S.D. - 730 - 4
I.S.D. - 730 - 9A
I.S.D. - 730 - 10
I.S.D. - 730 - 13
I.S.D. - 730 - 14
I.S.D. - 730 - 17
I.S.D. - 730 - 18
TSOP NO. 31
I.T.S. - 734 - 001
I.T.S. - 734 - 003
I.T.S. - 734 - 005



BACKGROUND: GREEN  
LETTERS: WHITE

SUPPORTING STRUCTURES (PROVIDED BY CITY)						
BID ID	POLE NO.	POLE HEIGHT	STATION	OFFSET	MAST ARM LENGTH	LUMINAIRE LENGTH
2-1	P1	8	203+10	67' RT		
2-2	P2	30	203+30	39' RT	40	8' (LUMINAIRE P32)
2-3	P3	8	203+63	39' LT		
2-4	P4	30	202+88	33' LT	45	8' (LUMINAIRE P29)
2-5	P5	30	202+66	42' RT		8' (LUMINAIRE P30)
2-6	P6	8	202+53	67' RT		
2-7	P7	8	202+51	32' LT		
2-8	P8	8	205+54	66' RT		
2-9	P9	30	205+65	35' RT	40	8' (LUMINAIRE P38)
2-10	P10	30	205+48	29' LT		8' (LUMINAIRE P28)
2-11	P11	30	204+86	44' LT	45,30	8' (LUMINAIRE P33)
2-12	P12	30	204+85	35' RT		8' (LUMINAIRE P36)
2-13	P13	8	204+96	66' RT		

DETECTOR TABLE						
ZONE	PHASE	SIZE	TYPE	DELAY	RADAR NO.	SETBACK DISTANCE
1	1	6X50	PRESENCE		5	0
2A, 2B	2	6X6	PULSE		7	185
OLB1, OLB2	2	6X50	PRESENCE		5	0
4A, 4B, 4C	4	6X50	PRESENCE		6	0
5	5	6X50	PRESENCE		3	0
6A, 6B	6	6X6	PULSE		1	185
OLA1, OLA2	6	6X50	PRESENCE		3	0
8A, 8B, 8C	8	6X50	PRESENCE		2	0

ESTIMATED EQUIPMENT AND MATERIAL SCHEDULE
#14 SIGNAL CABLE, IMSA 20-1
BACK PLATES W/ ATTACHMENTS
R10-27, R10-15 ALT, R10-3e SIGNS AND STREET SIGNS
MISCELLANEOUS HARDWARE
PUSH BUTTON ASSEMBLIES
POWER SOURCE (240 VOLTS)

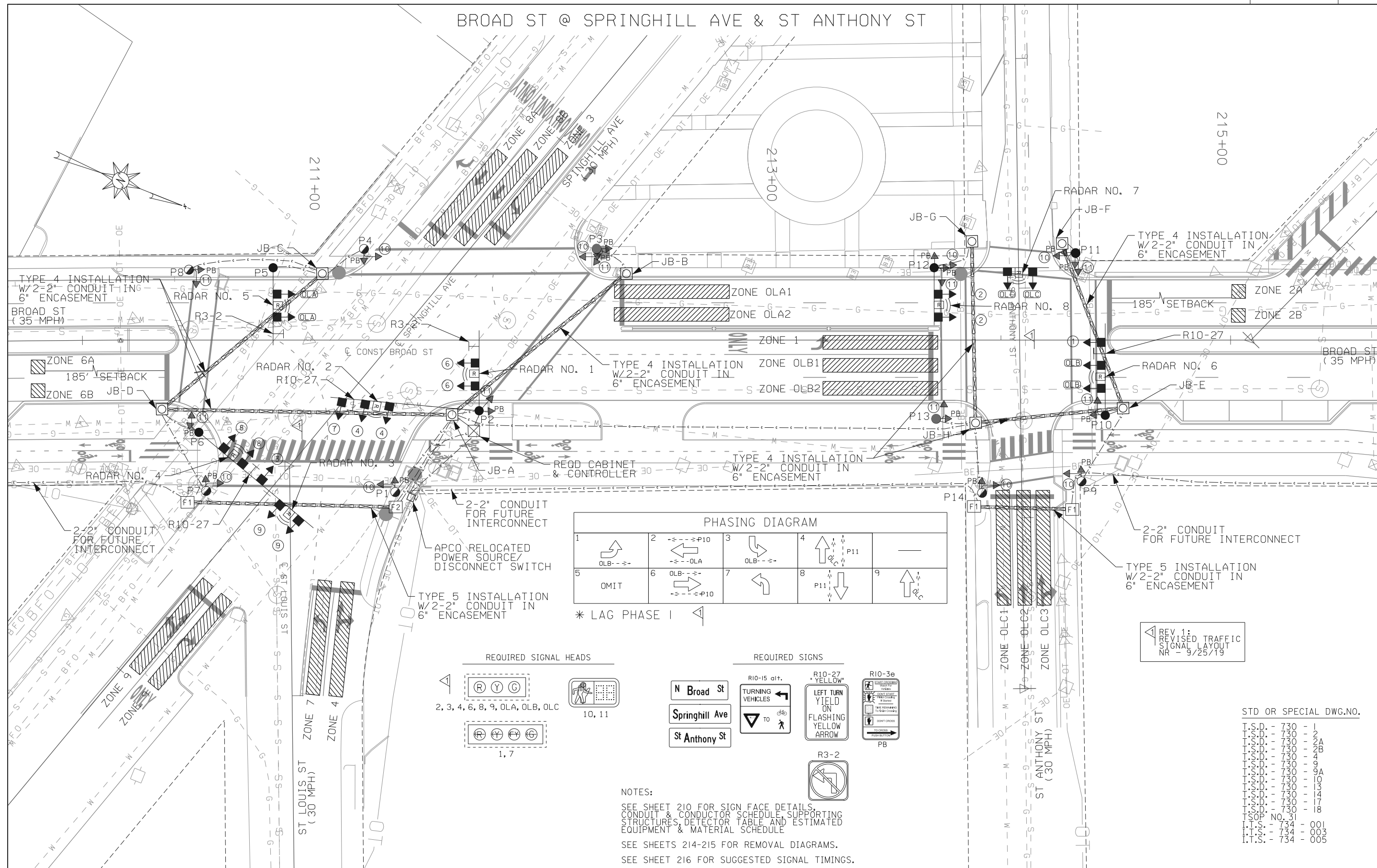
CONDUIT AND CONDUCTOR SCHEDULE			
CONDUIT	CONDUCTOR	FROM	TO
1-1 IN.	1-3C/NO.6 AWG	DISCONNECT	CONTROLLER
1-1 IN.	1-3C/NO.8 AWG	DISCONNECT	JB-A
2-2 IN.		JB-A	POLES #1,#2
2-2 IN.		JB-A	JB-B, JB-D, JB-H
2-2 IN.		JB-D	POLES #5,#6
2-2 IN.		JB-D	JB-C
2-2 IN.		JB-C	POLES #4,#7
2-2 IN.		JB-B	POLE #3
2-2 IN.		JB-H	JB-E
2-2 IN.		JB-E	POLES #8,#9
2-2 IN.		JB-H	POLES #12,#13
2-2 IN.		JB-H	JB-G
2-2 IN.		JB-G	POLE #11
2-2 IN.		JB-E	JB-F
2-2 IN.		JB-F	POLE #10
	9C/NO.14 AWG IMSA 20-1	CONTROLLER	SIGNAL HEADS #1 (DAUPHIN)
	4C/NO.14 AWG IMSA 20-1	CONTROLLER	SIGNAL HEADS #2,#8 (DAUPHIN)
	4C/NO.14 AWG IMSA 20-1	SIGNAL HEADS #1 (DAUPHIN)	SIGNAL HEADS #6 (DAUPHIN)
	9C/NO.14 AWG IMSA 20-1	CONTROLLER	SIGNAL HEADS #5 (ST FRANCIS)
	4C/NO.14 AWG IMSA 20-1	CONTROLLER	SIGNAL HEADS #4,#6 (ST FRANCIS)
	4C/NO.14 AWG IMSA 20-1	SIGNAL HEADS #5 (ST FRANCIS)	SIGNAL HEADS #2 (ST FRANCIS)
	5C/NO.14 AWG IMSA 20-1	CONTROLLER	PEDESTRIAN SIGNAL HEADS & PUSHBUTTONS
	RADAR CABLE	CONTROLLER	RADAR #1,#2,#3,#4,#5,#6

NOTES:  
CONTRACTOR SHALL RETRIEVE OWNER PROVIDED SIGNAL AND PEDESTAL POLES FROM THE CITY OF MOBILE'S MAINTENANCE FACILITY LOCATED AT 854 GAYLE STREET, MOBILE, ALABAMA 36604. THE CONTRACTOR WILL BE RESPONSIBLE FOR INSPECTING POLES PRIOR TO HANDLING AND SHALL BE RESPONSIBLE FOR LOADING, TRANSPORTING, UNLOADING, AND INSTALLING. ANY DAMAGE INCURRED AS A RESULT OF LOADING, TRANSPORTING, UNLOADING, AND/OR INSTALLING SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT NO EXPENSE TO THE OWNER. REPAIR OR REPLACEMENT SHALL BE DETERMINED BY THE OWNER. THE CONTRACTOR SHOULD COORDINATE PICKUP AND DELIVERY TO THE PROJECT SITE WITH MOBILE TRAFFIC ENGINEER, JENNIFER WHITE, 251-208-2960.

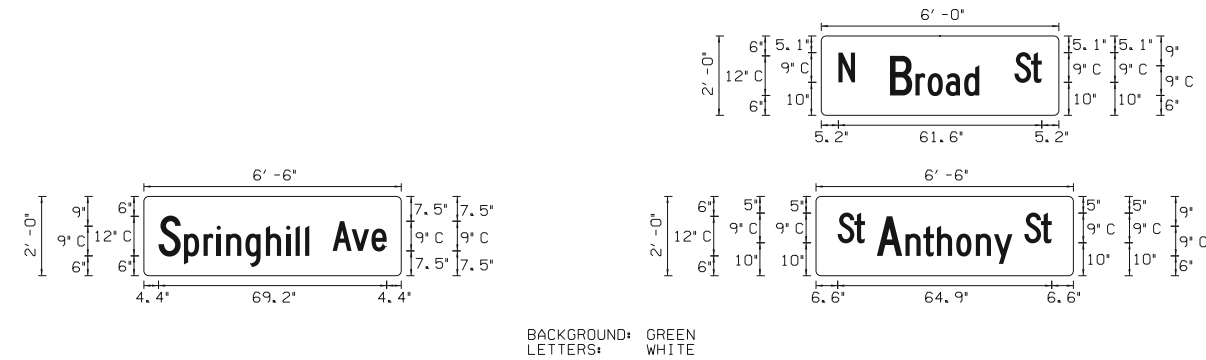
SEE SHEETS 214-215 FOR REMOVAL DIAGRAMS.

SEE SHEET 216 FOR SUGGESTED SIGNAL TIMINGS.

RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL			SHEET TITLE	ROUTE
DATE:	DATE:	DATE:				TRAFFIC SIGNAL LAYOUT SHEET	BROAD STREET



RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL:	MOBILE CITY OF MOBILE RECONNECTING PEOPLE   WORK   PLAY	HORIZ SCALE (FEET)	SHEET TITLE	ROUTE
DATE:	DATE:	DATE:				TRAFFIC SIGNAL LAYOUT SHEET	BROAD STREET



BACKGROUND: GREEN  
LETTERS: WHITE

SUPPORTING STRUCTURES (PROVIDED BY CITY)						
BID ID	POLE NO.	POLE HEIGHT	STATION	OFFSET	MAST ARM LENGTH	LUMINAIRE LENGTH
3-1	P1	8	211+36	66' RT		
3-2	P2	30	211+73	31' RT	35,65	8' (LUMINAIRE P52)
3-3	P3	30	212+24	40' LT		8' (LUMINAIRE P51)
3-4	P4	30	211+23	40' LT		8' (LUMINAIRE P49)
3-5	P5	30	210+83	32' LT	35	8' (LUMINAIRE P47)
3-6	P6	30	210+51	40' RT	65	8' (LUMINAIRE P50)
3-7	P7	8	210+53	66' RT		
3-8	P8	8	210+47	31' LT		
3-9	P9	8	214+35	62' RT		
3-10	P10	30	214+45	33' RT	40	8' (LUMINAIRE P60)
3-11	P11	30	214+32	38' LT		8' (LUMINAIRE P57)
3-12	P12	30	213+71	32' LT	25,50	8' (LUMINAIRE P55)
3-13	P13	30	213+72	34' RT		8' (LUMINAIRE P56)
3-14	P14	8	213+92	67' RT		

DETECTOR TABLE						
ZONE	PHASE	SIZE	TYPE	DELAY	RADAR NO.	SETBACK DISTANCE
1	1	6X50	PRESENCE		6	0
2A, 2B	2	6X6	PULSE		8	185
OLA1, OLA2	2	6X50	PRESENCE		5	0
3	3	6X50	PRESENCE		4	0
OLC1, OLC2, OLC3	4	6X50	PRESENCE		7	0
-	-	-	-	-	-	-
6A, 6B	6	6X6	PULSE		1	185
OLB1, OLB2	6	6X50	PRESENCE		6	0
7	7	6X50	PRESENCE		2	0
8A, 8B	8	6X50	PRESENCE		4	0
9	9	6X50	PRESENCE		3	0

CONDUIT AND CONDUCTOR SCHEDULE			
CONDUIT	CONDUCTOR	FROM	TO
1-1 IN.	1-3C/NO.6 AWG	DISCONNECT	CONTROLLER
1-1 IN.	1-3C/NO.8 AWG	DISCONNECT	JB-A
2-2 IN.		JB-A	POLES #1,#2
2-2 IN.		JB-A	JB-B, JB-D, JB-H
2-2 IN.		JB-D	POLES #6,#7
2-2 IN.		JB-D	JB-C
2-2 IN.		JB-C	POLES #4,#5,#8
2-2 IN.		JB-B	POLE #3
2-2 IN.		JB-H	JB-E
2-2 IN.		JB-E	POLES #9,#10
2-2 IN.		JB-H	POLES #13,#14
2-2 IN.		JB-H	JB-G
2-2 IN.		JB-G	POLE #12
2-2 IN.		JB-E	JB-F
2-2 IN.		JB-F	POLE #11
	9C/NO.14 AWG IMSA 20-1	CONTROLLER	SIGNAL HEADS #1,#3,#5,#7 (SPRINGHILL)
	4C/NO.14 AWG IMSA 20-1	SIGNAL HEADS #1,#3,#5,#7 (SPRINGHILL)	SIGNAL HEADS #2,#4,#6,#8 (SPRINGHILL)
	4C/NO.14 AWG IMSA 20-1	CONTROLLER	SIGNAL HEADS #2,#4,#6,#8 (ST ANTHONY)
	5C/NO.14 AWG IMSA 20-1	CONTROLLER	PEDESTRIAN SIGNAL HEADS & PUSHBUTTONS
	RADAR CABLE	CONTROLLER	RADAR #1,#2,#3,#4,#5,#6,#7

ESTIMATED EQUIPMENT AND MATERIAL SCHEDULE
#14 SIGNAL CABLE, IMSA 20-1
BACK PLATES W/ ATTACHMENTS
R10-27, R10-15 ALT, R10-3e SIGNS AND STREET SIGNS
MISCELLANEOUS HARDWARE
PUSH BUTTON ASSEMBLIES
POWER SOURCE (240 VOLTS)

NOTES:

CONTRACTOR SHALL RETRIEVE OWNER PROVIDED SIGNAL AND PEDESTAL POLES FROM THE CITY OF MOBILE'S MAINTENANCE FACILITY LOCATED AT 854 GAYLE STREET, MOBILE, ALABAMA 36604. THE CONTRACTOR WILL BE RESPONSIBLE FOR INSPECTING POLES PRIOR TO HANDLING AND SHALL BE RESPONSIBLE FOR LOADING, TRANSPORTING, UNLOADING, AND INSTALLING. ANY DAMAGE INCURRED AS A RESULT OF LOADING, TRANSPORTING, UNLOADING, AND/OR INSTALLING SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT NO EXPENSE TO THE OWNER. REPAIR OR REPLACEMENT SHALL BE DETERMINED BY THE OWNER. THE CONTRACTOR SHOULD COORDINATE PICKUP AND DELIVERY TO THE PROJECT SITE WITH MOBILE TRAFFIC ENGINEER, JENNIFER WHITE, 251-208-2960.

SEE SHEETS 214-215 FOR REMOVAL DIAGRAMS.  
SEE SHEET 216 FOR SUGGESTED SIGNAL TIMINGS.

REV 1:  
REVISED TRAFFIC  
SIGNAL LAYOUT  
NR - 9/25/19



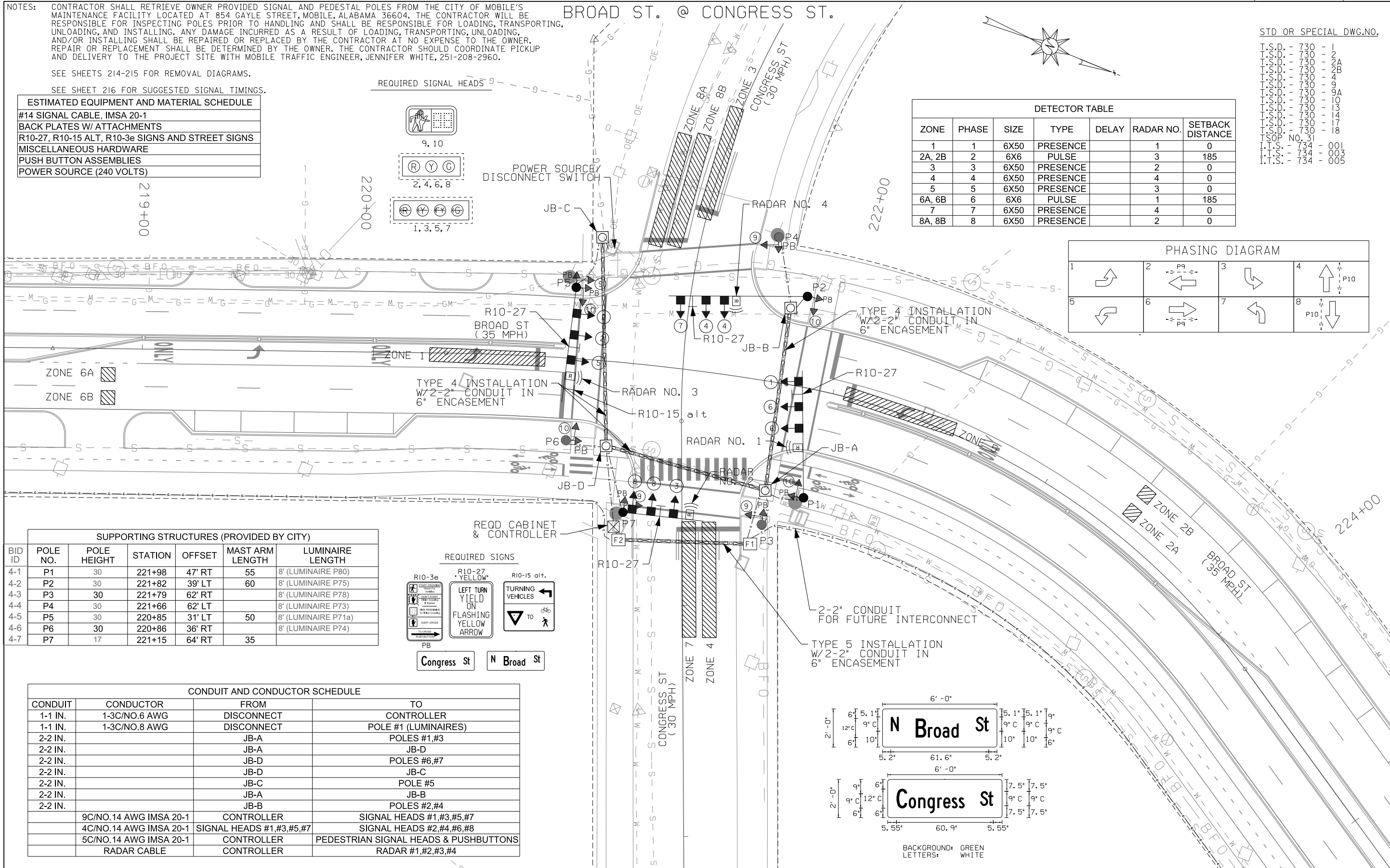
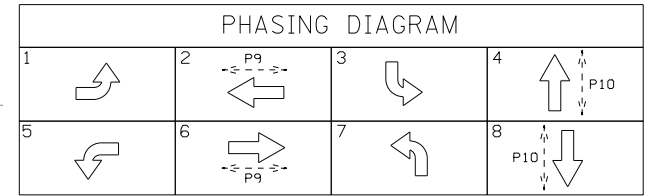
NOTES: CONTRACTOR SHALL RETRIEVE OWNER PROVIDED SIGNAL AND PEDESTAL POLES FROM THE CITY OF MOBILE'S MAINTENANCE FACILITY LOCATED AT 854 GAYLE STREET, MOBILE, ALABAMA 36604. THE CONTRACTOR WILL BE RESPONSIBLE FOR INSPECTING POLES PRIOR TO HANDLING AND SHALL BE RESPONSIBLE FOR LOADING, TRANSPORTING, UNLOADING, AND INSTALLING. ANY DAMAGE INCURRED AS A RESULT OF LOADING, TRANSPORTING, UNLOADING, AND/OR INSTALLING SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT NO EXPENSE TO THE OWNER. REPAIR OR REPLACEMENT SHALL BE DETERMINED BY THE OWNER. THE CONTRACTOR SHOULD COORDINATE PICKUP AND DELIVERY TO THE PROJECT SITE WITH MOBILE TRAFFIC ENGINEER, JENNIFER WHITE, 251-208-2960.

SEE SHEETS 214-215 FOR REMOVAL DIAGRAMS.  
SEE SHEET 216 FOR SUGGESTED SIGNAL TIMINGS.

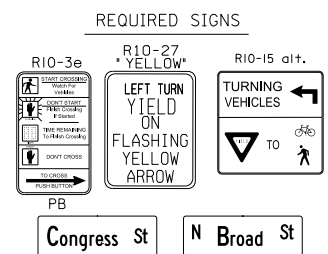
ESTIMATED EQUIPMENT AND MATERIAL SCHEDULE	
#14 SIGNAL CABLE, IMSA 20-1	
BACK PLATES W/ ATTACHMENTS	
R10-27, R10-15 ALT, R10-3e SIGNS AND STREET SIGNS	
MISCELLANEOUS HARDWARE	
PUSH BUTTON ASSEMBLIES	
POWER SOURCE (240 VOLTS)	

DETECTOR TABLE						
ZONE	PHASE	SIZE	TYPE	DELAY	RADAR NO.	SETBACK DISTANCE
1	1	6X50	PRESENCE		1	0
2A, 2B	2	6X6	PULSE		3	185
3	3	6X50	PRESENCE		2	0
4	4	6X50	PRESENCE		4	0
5	5	6X50	PRESENCE		3	0
6A, 6B	6	6X6	PULSE		1	185
7	7	6X50	PRESENCE		4	0
8A, 8B	8	6X50	PRESENCE		2	0

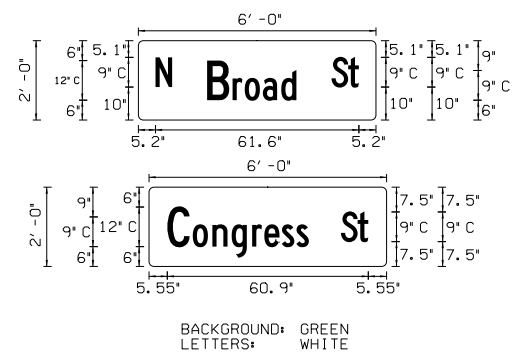
STD OR SPECIAL DWG. NO.	
T.S.D. - 730 - 1	
T.S.D. - 730 - 2	
T.S.D. - 730 - 3	
T.S.D. - 730 - 4	
T.S.D. - 730 - 5	
T.S.D. - 730 - 6	
T.S.D. - 730 - 7	
T.S.D. - 730 - 8	
T.S.D. - 730 - 9	
T.S.D. - 730 - 10	
T.S.D. - 730 - 11	
T.S.D. - 730 - 12	
T.S.D. - 730 - 13	
T.S.D. - 730 - 14	
T.S.D. - 730 - 15	
T.S.D. - 730 - 16	
T.S.D. - 730 - 17	
T.S.D. - 730 - 18	
TSOP NO. 31	
I.T.S. - 734 - 001	
I.T.S. - 734 - 003	
I.T.S. - 734 - 005	

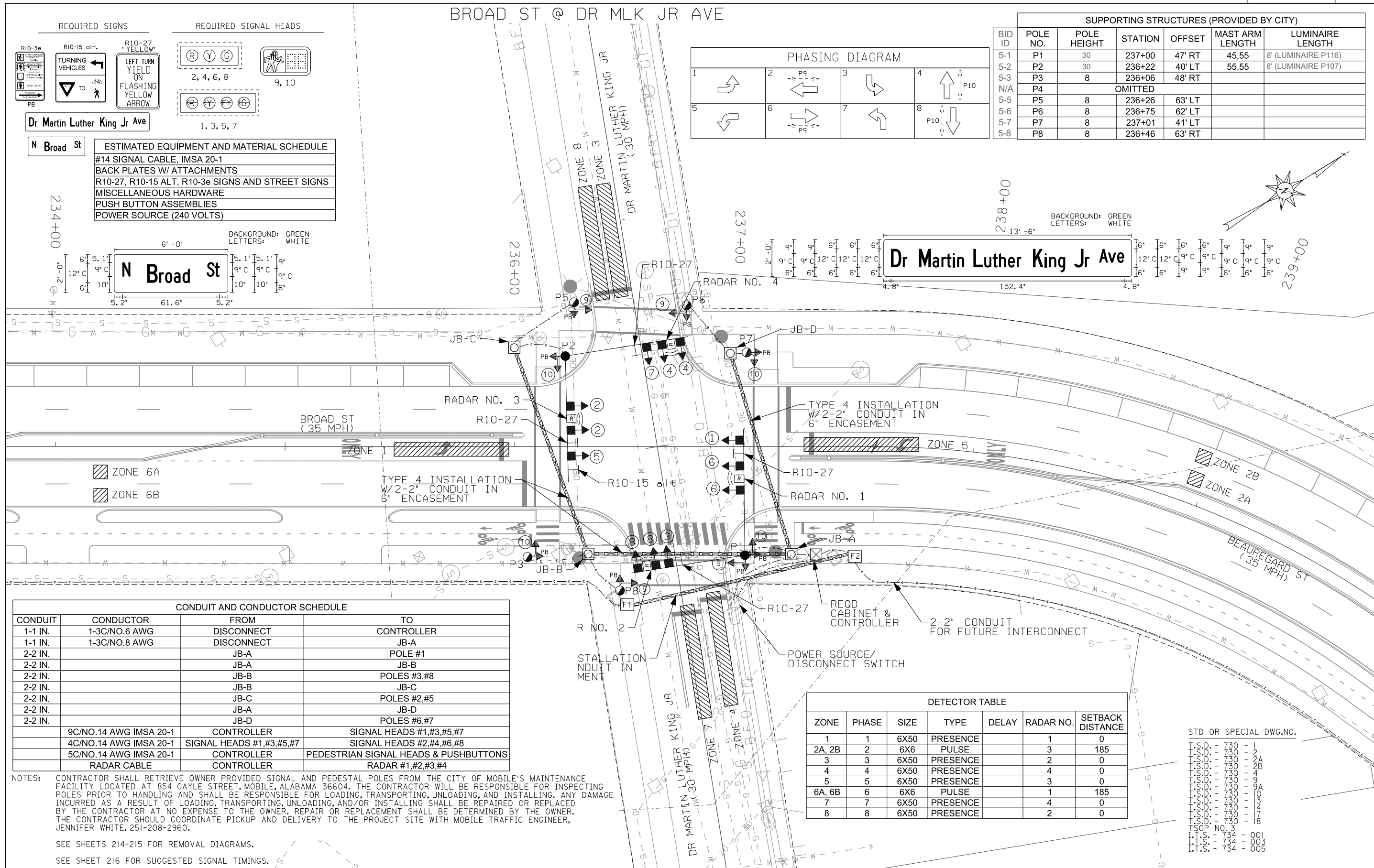


SUPPORTING STRUCTURES (PROVIDED BY CITY)						
BID ID	POLE NO.	POLE HEIGHT	STATION	OFFSET	MAST ARM LENGTH	LUMINAIRE LENGTH
4-1	P1	30	221+98	47' RT	55	8' (LUMINAIRE P80)
4-2	P2	30	221+82	39' LT	60	8' (LUMINAIRE P75)
4-3	P3	30	221+79	62' RT		8' (LUMINAIRE P78)
4-4	P4	30	221+66	62' LT		8' (LUMINAIRE P73)
4-5	P5	30	220+85	31' LT	50	8' (LUMINAIRE P71a)
4-6	P6	30	220+86	36' RT		8' (LUMINAIRE P74)
4-7	P7	17	221+15	64' RT	35	



CONDUIT AND CONDUCTOR SCHEDULE			
CONDUIT	CONDUCTOR	FROM	TO
1-1 IN.	1-3C/NO.6 AWG	DISCONNECT	CONTROLLER
1-1 IN.	1-3C/NO.8 AWG	DISCONNECT	POLE #1 (LUMINAIRES)
2-2 IN.		JB-A	POLES #1,#3
2-2 IN.		JB-A	JB-D
2-2 IN.		JB-D	POLES #6,#7
2-2 IN.		JB-D	JB-C
2-2 IN.		JB-C	POLE #5
2-2 IN.		JB-A	JB-B
2-2 IN.		JB-B	POLES #2,#4
	9C/NO.14 AWG IMSA 20-1	CONTROLLER	SIGNAL HEADS #1,#3,#5,#7
	4C/NO.14 AWG IMSA 20-1	SIGNAL HEADS #1,#3,#5,#7	SIGNAL HEADS #2,#4,#6,#8
	5C/NO.14 AWG IMSA 20-1	CONTROLLER	PEDESTRIAN SIGNAL HEADS & PUSHBUTTONS
	RADAR CABLE	CONTROLLER	RADAR #1,#2,#3,#4





**REQUIRED SIGNS**

R10-3e  
TURNING VEHICLES

R10-15 alt.  
LEFT TURN YIELD ON FLASHING YELLOW ARROW

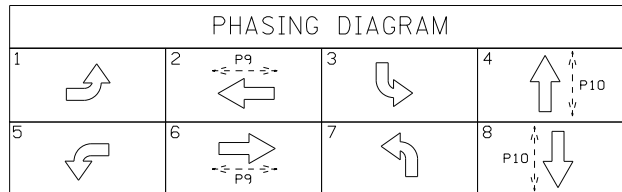
R10-27 \*YELLOW\*

**REQUIRED SIGNAL HEADS**

2, 4, 6, 8

9, 10

1, 3, 5, 7

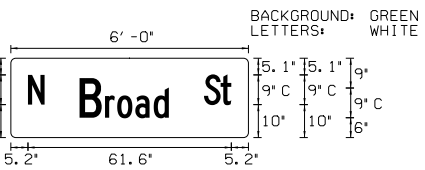


**SUPPORTING STRUCTURES (PROVIDED BY CITY)**

BID ID	POLE NO.	POLE HEIGHT	STATION	OFFSET	MAST ARM LENGTH	LUMINAIRE LENGTH
5-1	P1	30	237+00	47' RT	45,55	8' (LUMINAIRE P116)
5-2	P2	30	236+22	40' LT	55,55	8' (LUMINAIRE P107)
5-3	P3	8	236+06	48' RT		
N/A	P4				OMITTED	
5-5	P5	8	236+26	63' LT		
5-6	P6	8	236+75	62' LT		
5-7	P7	8	237+01	41' LT		
5-8	P8	8	236+46	63' RT		

**ESTIMATED EQUIPMENT AND MATERIAL SCHEDULE**

#14 SIGNAL CABLE, IMSA 20-1
BACK PLATES W/ ATTACHMENTS
R10-27, R10-15 ALT, R10-3e SIGNS AND STREET SIGNS
MISCELLANEOUS HARDWARE
PUSH BUTTON ASSEMBLIES
POWER SOURCE (240 VOLTS)



**CONDUIT AND CONDUCTOR SCHEDULE**

CONDUIT	CONDUCTOR	FROM	TO
1-1 IN.	1-3C/NO.6 AWG	DISCONNECT	CONTROLLER
1-1 IN.	1-3C/NO.8 AWG	DISCONNECT	JB-A
2-2 IN.		JB-A	POLE #1
2-2 IN.		JB-A	JB-B
2-2 IN.		JB-B	POLES #3,#8
2-2 IN.		JB-B	JB-C
2-2 IN.		JB-C	POLES #2,#5
2-2 IN.		JB-A	JB-D
2-2 IN.		JB-D	POLES #6,#7
	9C/NO.14 AWG IMSA 20-1	CONTROLLER	SIGNAL HEADS #1,#3,#5,#7
	4C/NO.14 AWG IMSA 20-1	SIGNAL HEADS #1,#3,#5,#7	SIGNAL HEADS #2,#4,#6,#8
	5C/NO.14 AWG IMSA 20-1	CONTROLLER	PEDESTRIAN SIGNAL HEADS & PUSHBUTTONS
	RADAR CABLE	CONTROLLER	RADAR #1,#2,#3,#4

**NOTES:** CONTRACTOR SHALL RETRIEVE OWNER PROVIDED SIGNAL AND PEDESTAL POLES FROM THE CITY OF MOBILE'S MAINTENANCE FACILITY LOCATED AT 854 GAYLE STREET, MOBILE, ALABAMA 36604. THE CONTRACTOR WILL BE RESPONSIBLE FOR INSPECTING POLES PRIOR TO HANDLING AND SHALL BE RESPONSIBLE FOR LOADING, TRANSPORTING, UNLOADING, AND INSTALLING. ANY DAMAGE INCURRED AS A RESULT OF LOADING, TRANSPORTING, UNLOADING, AND/OR INSTALLING SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT NO EXPENSE TO THE OWNER. REPAIR OR REPLACEMENT SHALL BE DETERMINED BY THE OWNER. THE CONTRACTOR SHOULD COORDINATE PICKUP AND DELIVERY TO THE PROJECT SITE WITH MOBILE TRAFFIC ENGINEER, JENNIFER WHITE, 251-208-2960.

SEE SHEETS 214-215 FOR REMOVAL DIAGRAMS.

SEE SHEET 216 FOR SUGGESTED SIGNAL TIMINGS.

**DETECTOR TABLE**

ZONE	PHASE	SIZE	TYPE	DELAY	RADAR NO.	SETBACK DISTANCE
1	1	6X50	PRESENCE		1	0
2A, 2B	2	6X6	PULSE		3	185
3	3	6X50	PRESENCE		2	0
4	4	6X50	PRESENCE		4	0
5	5	6X50	PRESENCE		3	0
6A, 6B	6	6X6	PULSE		1	185
7	7	6X50	PRESENCE		4	0
8	8	6X50	PRESENCE		2	0

- STD OR SPECIAL DWG. NO.**
- I.T.S.D. - 730 - 1
  - I.T.S.D. - 730 - 2
  - I.T.S.D. - 730 - 2A
  - I.T.S.D. - 730 - 2B
  - I.T.S.D. - 730 - 4
  - I.T.S.D. - 730 - 9
  - I.T.S.D. - 730 - 9A
  - I.T.S.D. - 730 - 10
  - I.T.S.D. - 730 - 13
  - I.T.S.D. - 730 - 14
  - I.T.S.D. - 730 - 17
  - I.T.S.D. - 730 - 18
  - TSOP NO. 31
  - I.T.S. - 734 - 001
  - I.T.S. - 734 - 003
  - I.T.S. - 734 - 005

RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL:	<b>MOBILE CITY OF MOBILE</b> RECONNECTING PEOPLE   WORK   PLAY	HORIZ SCALE (FEET)	SHEET TITLE	ROUTE
DATE:	DATE:	DATE:				TRAFFIC SIGNAL LAYOUT SHEET	BROAD STREET

NOTES: CONTRACTOR SHALL RETRIEVE OWNER PROVIDED SIGNAL AND PEDESTAL POLES FROM THE CITY OF MOBILE'S MAINTENANCE FACILITY LOCATED AT 854 GAYLE STREET, MOBILE, ALABAMA 36604. THE CONTRACTOR WILL BE RESPONSIBLE FOR INSPECTING POLES PRIOR TO HANDLING AND SHALL BE RESPONSIBLE FOR LOADING, TRANSPORTING, UNLOADING, AND INSTALLING. ANY DAMAGE INCURRED AS A RESULT OF LOADING, TRANSPORTING, UNLOADING, AND/OR INSTALLING SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT NO EXPENSE TO THE OWNER. REPAIR OR REPLACEMENT SHALL BE DETERMINED BY THE OWNER. THE CONTRACTOR SHOULD COORDINATE PICKUP AND DELIVERY TO THE PROJECT SITE WITH MOBILE TRAFFIC ENGINEER, JENNIFER WHITE, 251-208-2960.

SEE SHEETS 214-215 FOR REMOVAL DIAGRAMS.

SEE SHEET 216 FOR SUGGESTED SIGNAL TIMINGS.

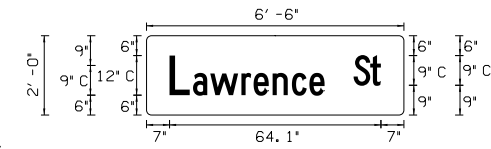
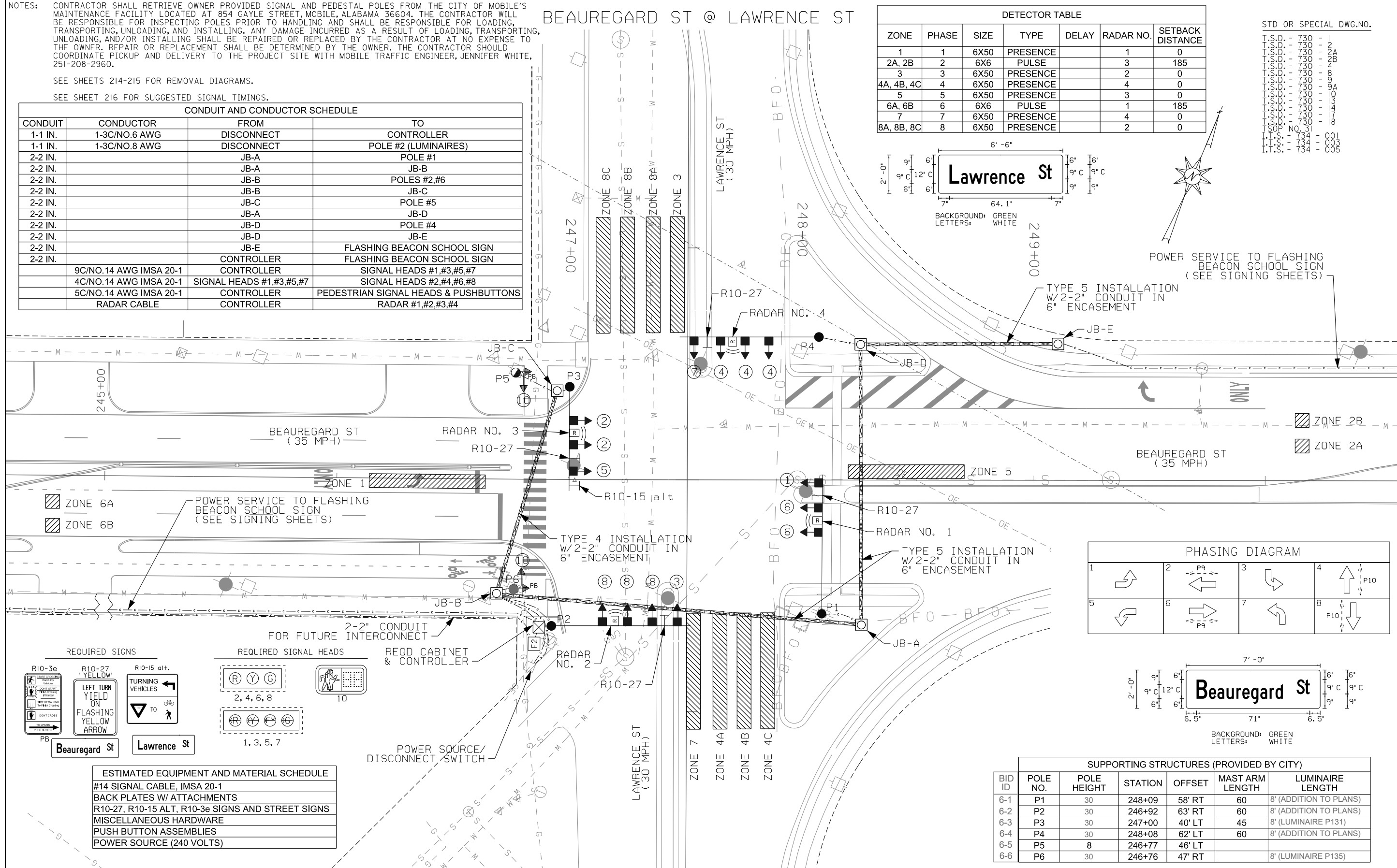
BEAUREGARD ST @ LAWRENCE ST

ZONE	PHASE	SIZE	TYPE	DELAY	RADAR NO.	SETBACK DISTANCE
1	1	6X50	PRESENCE		1	0
2A, 2B	2	6X6	PULSE		3	185
3	3	6X50	PRESENCE		2	0
4A, 4B, 4C	4	6X50	PRESENCE		4	0
5	5	6X50	PRESENCE		3	0
6A, 6B	6	6X6	PULSE		1	185
7	7	6X50	PRESENCE		4	0
8A, 8B, 8C	8	6X50	PRESENCE		2	0

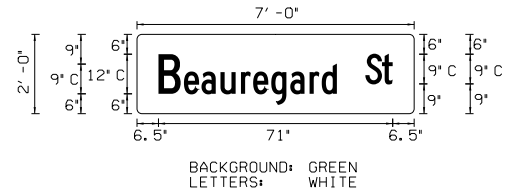
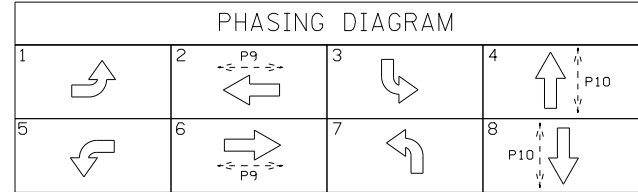
STD OR SPECIAL DWG. NO.

- T.S.D. - 730 - 1
- T.S.D. - 730 - 2
- T.S.D. - 730 - 2A
- T.S.D. - 730 - 2B
- T.S.D. - 730 - 4
- T.S.D. - 730 - 8
- T.S.D. - 730 - 9
- T.S.D. - 730 - 9A
- T.S.D. - 730 - 10
- T.S.D. - 730 - 13
- T.S.D. - 730 - 14
- T.S.D. - 730 - 17
- T.S.D. - 730 - 18
- T.SOP NO. 31
- T.S. - 734 - 001
- T.S. - 734 - 003
- T.S. - 734 - 005

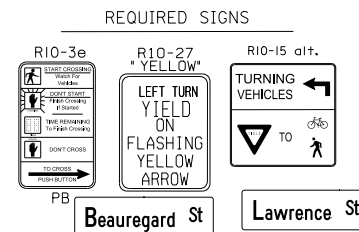
CONDUIT	CONDUCTOR	FROM	TO
1-1 IN.	1-3C/NO.6 AWG	DISCONNECT	CONTROLLER
1-1 IN.	1-3C/NO.8 AWG	DISCONNECT	POLE #2 (LUMINAIRES)
2-2 IN.		JB-A	POLE #1
2-2 IN.		JB-A	JB-B
2-2 IN.		JB-B	POLES #2,#6
2-2 IN.		JB-B	JB-C
2-2 IN.		JB-C	POLE #5
2-2 IN.		JB-A	JB-D
2-2 IN.		JB-D	POLE #4
2-2 IN.		JB-D	JB-E
2-2 IN.		JB-E	FLASHING BEACON SCHOOL SIGN
2-2 IN.		CONTROLLER	FLASHING BEACON SCHOOL SIGN
	9C/NO.14 AWG IMSA 20-1	CONTROLLER	SIGNAL HEADS #1,#3,#5,#7
	4C/NO.14 AWG IMSA 20-1	SIGNAL HEADS #1,#3,#5,#7	SIGNAL HEADS #2,#4,#6,#8
	5C/NO.14 AWG IMSA 20-1	CONTROLLER	PEDESTRIAN SIGNAL HEADS & PUSHBUTTONS
	RADAR CABLE	CONTROLLER	RADAR #1,#2,#3,#4



POWER SERVICE TO FLASHING BEACON SCHOOL SIGN (SEE SIGNING SHEETS)



POWER SERVICE TO FLASHING BEACON SCHOOL SIGN (SEE SIGNING SHEETS)



#14 SIGNAL CABLE, IMSA 20-1
BACK PLATES W/ ATTACHMENTS
R10-27, R10-15 ALT, R10-3e SIGNS AND STREET SIGNS
MISCELLANEOUS HARDWARE
PUSH BUTTON ASSEMBLIES
POWER SOURCE (240 VOLTS)

BID ID	POLE NO.	POLE HEIGHT	STATION	OFFSET	MAST ARM LENGTH	LUMINAIRE LENGTH
6-1	P1	30	248+09	58' RT	60	8' (ADDITION TO PLANS)
6-2	P2	30	246+92	63' RT	60	8' (ADDITION TO PLANS)
6-3	P3	30	247+00	40' LT	45	8' (LUMINAIRE P131)
6-4	P4	30	248+08	62' LT	60	8' (ADDITION TO PLANS)
6-5	P5	8	246+77	46' LT		
6-6	P6	30	246+76	47' RT		8' (LUMINAIRE P135)