



ADDENDUM NO. 1

Mexico Road Intersection Improvements

City of O'Fallon Invitation # 12-041

Federal Project # CMAQ-5401(644)

October 22, 2012

This Addendum shall become part of the construction plans, specifications, and contract documents for the contract noted above. It shall be attached within the cover of the contract documents and acknowledgement of its receipt shall be noted in the space below.

The following changes have been made:

Information for Bidders and Specifications

1. Table of Contents: Revised page numbers for proposal section.
2. Proposal, Page P-1, Paragraph 2, Addenda and Interpretations: Date changed to October 24 from October 26
3. Proposal, Page P-6, Paragraph 19, Method of Award – Lowest Responsible, Responsive Bidder: Added the following: *"The Local Agency has included alternate bid items. These alternate bid items will be included at the discretion of the City of O'Fallon. The City will evaluate the bids in the following order of priority: Base Bid, Base Bid plus Alternate Bid 1. The project will be awarded based on available project funds. The contractor shall bid on all alternates to address."*
4. Itemized Proposal: Pay items for pavement repair have been split out as Alternate Bid 1.
5. Itemized Proposal: Pay items for pushbutton detectors have been eliminated. Pushbuttons will either be used in place or relocated. No direct payment will be made for the relocation of pushbutton detectors.

Plans

The following sheets were revised to reflect that the pay items for pushbutton detectors have been eliminated. Existing pushbutton detectors will be used instead of replacing them. Pushbuttons will either be used in place or relocated. No direct payment will be made for the relocation of pushbutton detectors.

SIG-01, SIG-02, SIG-03, SIG-06, SIG-07, SIG-08

All bidders must acknowledge receipt of this Addendum in the space provided below. Failure to acknowledge receipt of the Addendum may be cause for rejection of the bid.

Respectfully Submitted,

Dan Buesse, P.E. PTOE
Project Manager

ALL BIDDERS MUST SIGN THIS ADDENDUM IN THE SPACE PROVIDED BELOW AND ATTACH IT TO THEIR BID PROPOSAL.

ADDENDUM NO. 1:

ACKNOWLEDGED BY: _____

FIRM'S NAME: _____

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GENERAL REQUIREMENTS

PROPOSAL
Mexico Road Intersection Improvements

To the City of O'Fallon, 100 N. Main Street, O'Fallon, Missouri.

1. **PROPOSED WORK.** For constructing (or improving) the project designated above, the total length of the improvement being approximately 1,189 feet and consisting of:

All work and materials to construct turn lane additions and traffic signal upgrades at two intersections: Mexico Road with Knaust Road/Belleau Creek and Mexico Road with Sonderen Road / White Oak.

2. **ADDENDA AND INTERPRETATIONS.** No interpretation of the meaning of the plans, specifications, or other pre-bid documents will be made to any bidder orally. Every request for such interpretation should be in writing, addressed to:

Dan Buesse
Project Manager
100 North Main Street
O'Fallon, Missouri 63366
Fax (636) 978-4144
or by e-mail to dbuesse@ofallon.mo.us

Every request for such interpretation should be in writing addressed to the City of O'Fallon, Missouri, and to be given consideration must be received no later than **October 24, 2012 at 10:00 A.M.**

Failure of the contractor to acknowledge and all addenda shall make the bid nonresponsive and not eligible for award consideration. Verification that bidders received and incorporated any/all addenda issued for the project must be evident in the submitted bidding documents (Bidder's Acknowledgement)

3. **ANTIDISCRIMINATION.** The Contracting Authority hereby notifies all bidders that it will affirmatively insure that in any contract entered into pursuant to this advertisement, businesses owned and controlled by socially and economically disadvantaged individuals will be afforded full opportunity to submit bids in response to this invitation and will not be discriminated against on the grounds of race, color, religion, creed, sex, age, ancestry, or national origin in consideration for an award.
4. **BID LABEL:** please cut out and affix this bid label (below) to the outermost envelope of your proposal to help ensure proper delivery. LATE BIDS CANNOT BE ACCEPTED!

SEALED BID PROPOSAL

INVITATION #: 12-041
OPENING DATE: OCTOBER 26, 2012
OPENING TIME: 10:00 A.M.
PROJECT NAME: MEXICO ROAD INTERSECTION IMPROVEMENTS
FED. PROJ. NUMBER: CMAQ-5401(644)



DATED MATERIAL-DELIVER IMMEDIATELY

5. **BID BOND/SECURITY/GUARANTY.** The undersigned submits and attaches to this proposal a proposal guaranty meeting the requirements of Sec. 102.8, Sec. 103.3, Standard Specifications as modified herein. Acceptable forms of a guaranty include the following:

- ☐ Cashier's check
- ☐ Paper bid bond (project bid bond form is included in the bid book.)

Contractors shall use the bid bond form provided in the bidding documents. Guaranty shall be executed by the bidder as principal and having as surety thereof a surety company approved by the City, in the amount of five percent (5%) of the bid. Such check, or bid bond will be returned to all except the three (3) lowest bidders within **fifteen (15) days** after the opening of the bids; and the remaining checks, or bid bonds will be returned promptly after the City and accepted bidder have executed the contract, or, if no award has been made within **thirty (30) days** after the date of the opening of bids, upon demand of the bidder at any time thereafter, so long as he has not been notified of the acceptance of his bid.

6. **BIDDER'S CERTIFICATION FOR DBE PROGRAM AND CONTRACT GOAL:** Please refer to the "CONTRACT AGREEMENT AND BIDDER'S FORMS" section of this spec book for more information and requirements.
7. **BUY AMERICA REQUIREMENTS:** Construction contracts shall assure compliance with Section 165 of the Surface Transportation Assistance Act of 1982, Section 337 of the Surface Transportation and Uniform Relocation Assistance Act of 1987, and 23 CFR 635.410 regarding Buy America provisions on the procurement of foreign products and materials. On all contracts involving Federal-aid, all products of iron, steel, or a coating of steel which are incorporated into the work must have been manufactured in the United States. The Contracting Authority may allow minimal amounts of these materials from foreign sources, provided the cost does not exceed 0.1 percent of the contract sum or \$2,500, whichever is greater. The Contractor certifies that these materials are of domestic origin. Additional information regarding the "Buy America" requirements can be found at:

<http://www.fhwa.dot.gov/programadmin/contracts/b-amquck.cfm>

8. **CERTIFICATIONS FOR FEDERAL JOBS:** By signing and submitting this bid, the bidder makes the certifications appearing in Sec. 102.18.1 (regarding affirmative action and equal opportunity), Sec. 102.18.2 (regarding disbarment, eligibility, indictments, convictions, or civil judgments), Sec. 102.18.3 (regarding anti-collusion), and Sec. 102.18.4 (regarding lobbying activities). Any necessary documentation is to accompany the bid submission, as required by these sections. As provided in Sec. 108.13, the contracting authority may terminate the contract for acts of misconduct, which includes but is not limited to fraud, dishonesty, and material misrepresentation or omission of fact within the bid submission.

9. **CHANGED CONDITION CLAUSES:** Standardized changed condition clauses are required to be included in all contracts. The Missouri Standard Specifications and the Standard Specifications for Public Works Construction (Green Book) contain standard changed condition clauses.

This regulation requires the use of three different clauses. These are only required if Changed Condition Clauses are required.

Differing Site Conditions Clause

This clause provides for the adjustment of the contract terms if the contractor encounters:

- Subsurface or latent physical conditions that differ materially from those indicated in the contract, or
- Unknown physical conditions of an unusual nature that differ materially from those ordinarily encountered and generally recognized as inherent to the work.

Suspensions of Work Ordered by the Engineer

This clause provides for the adjustment of the contract terms if the performance of all or a portion of the work is suspended or delayed by the engineer of record for the LPA, in writing, for an unreasonable period of time (not originally anticipated, customary, or inherent to the construction industry). The contractor is required to submit a request for adjustment, in writing, to the engineer of record for the LPA within 7 calendar days of receipt of the notice to resume work. Recovery of profit on costs resulting from suspensions of work is not allowed.

This clause does not preclude the recognition of construction suspensions or delays resulting from the contracting agency's actions, without written notification. The LPAs may address constructive delays and suspensions, as they chose, in their standard specifications and contract administration procedures.

Suspensions must be for unreasonable periods and do not include brief, customary suspensions for reasons inherent to highway construction (i.e., material sampling and testing; approval of shop drawings, material sources, etc.; and other reasonable and customary suspensions necessary for the supervision of construction by the contracting agency). In addition, an adjustment under this clause is not allowed if the work is suspended for other reasons or if an adjustment is provided for, or excluded, under other terms or conditions of the contract.

Material Changes in the Scope of the Work

This clause provides for the adjustment of the contract terms if the engineer of record for the LPA orders, in writing, an alteration in the work or in the quantities that significantly change the character of work. The term "significant change" shall apply only to the following circumstances:

- The altered character of the work differs materially from that of the original contract, or
- A major item of work, as defined in the contract, is increased or decreased by more than 25 percent of the original contract quantity (adjustments shall apply only to that portion in excess of 125 percent of original contract quantity, or in case of a decrease, to the actual quantity performed).

This clause provides for adjustments resulting from formal change orders by the engineer of record for the LPA, in writing, to the extent that the impacted work is part of the contract. Either party may initiate an adjustment and both must be in agreement before the work is performed. As with the suspension of work provision, this clause does not preclude the recognition of construction suspensions or delays.

10. **COMPLIANCE WITH CONTRACT PROVISIONS.** The specifications, contract, and bond governing the construction of the work contemplated are those known and designed as the *"Missouri Highway and*

Transportation Commission Standard Specifications for Highway Construction, 2011" and "Missouri Standard Plans for Highway Construction, 2009" (if applicable) their revisions, and the request for bid, including appendices, the job special provisions and plans, hereby proposes to furnish all labor, materials, equipment, services, etc., required for the performance and completion of the work. All references are to the Missouri Standard Specifications for Highway Construction, as revised, unless otherwise noted.

The following documents are available on the Missouri Department of Transportation web page at www.modot.mo.gov under "Business with MoDOT" "Standards and Specifications". The effective version shall be determined by the letting date of the project.

General Provisions & Supplemental Specifications
Supplemental Plans to October 2009 Missouri Std. Plans
For Highway Construction (if applicable)

These supplemental bidding documents contain all current revisions to the bound printed versions and have important legal consequences. It shall be conclusively presumed that they are in the bidder's possession, and they have been reviewed and used by the bidder in the preparation of any bid submitted on this project.

Please note that within the above-listed documents, the term "Commission" shall be replaced with the term, "City of O'Fallon, MO", and the term "Engineer" is a reference to the Engineer of Record from "H. R. Green, Inc. (H.R. Green)" and/or "City of O'Fallon, MO".

11. **CONDITION OF WORK.** Each bidder must inform himself fully of the conditions relating to the construction of the project and the employment of labor thereon. Failure to do so will not relieve a successful bidder of his obligation to furnish all material and labor necessary to carry out the provisions of his contract. Insofar as possible the contractor in carrying out his work, must employ such methods or means as will not cause any interruption of or interference with the work of any other contractor.
12. **CONTRACT AND PERFORMANCE BOND.** A bond will be required for the full amount of the contract price with a surety company authorized to do business in the State of Missouri and satisfactory to the City, conditioned for the faithful performance of this contract and the guarantee of the work. Both contract and bond shall be executed in triplicate and in a form acceptable to the City.
13. **E-VERIFY:** See "Worker Eligibility/E-Verify" section in this Proposal
14. **EXECUTION OF CONTRACT.** The bidder to whom the contract has been awarded shall sign six (6) copies of the contract agreement and contract bond and return them to the City within **ten (10) days** after receipt of the contract. Failure to execute the contract and bonds and return them to the City within **ten (10) days** after receipt of the contract shall be cause for the annulment of the contract award and the forfeiture of the bid security to the City.
15. **INSURANCE.** The successful bidder must provide properly executed certificates of insurance prior to the signing of the contract with the City.

Liability Insurance

The contractor and any subcontractor shall indemnify and save harmless the City from all suits or action of every name and description brought against the City from all suits or action of every name and description brought against the City for or on account of any personal injuries, including accidental or resulting death, or property damages received or claimed to be received or sustained by any persons due to the construction of the work, or by, or in consequence of any hazard, or of any negligence by the contractor or subcontractor, his agents or employees or assigns in safeguarding it, or due to any

improper materials used in the construction, or by, or on account of any act or omission of the contractor or subcontractor, his employees, agents or assigns.

The contractor shall carry adequate public liability and property damage insurance for the joint and several benefits of the contractor and the City with a company licensed to do business in the State of Missouri and satisfactory to the City and in the amount not less than those specified below. The amounts of coverage required for public liability of the contractor in protecting the City from damage or injury claims. The City shall have the right to require the contractor to increase any or all such insurance policy limits while the contract work is in progress in the event the City Engineer determines that unusual or special risks revealed by the work so required and in such amounts as the City Engineer may determine to be adequate, and without thereby limits the liability of the contractor in protecting the City from damage or injury claims.

As partial security for the defense of claims and the payments required under such indemnity, the contractor and any subcontractor shall furnish at his cost, an owner's protective insurance policy satisfactory to the City naming the City as insured for amounts not less than the contractor's public liability and property damage insurance covering the work.

The contractor shall comply fully with the requirements of the workmen's compensation act of the State of Missouri and shall furnish evidence that the contractor is insured there under. The coverage shall insure the City and its officers and employees while acting within the scope of their duties against all claims arising out of or in connection with the work to be performed.

The cost of the insurance shall be included in the prices for the various items of work and no additional payment will be made therefore.

The minimum acceptable coverage is defined in Section 107.13.2 of the 2004 Missouri Standard Specifications for Highway Construction:

Certificate of Insurance sent to the city as evidence of insurance shall contain the following statement; and in their absence, the certificate will not be satisfactory to the city.

- (a) The insurance evidenced by this certificate to the City as evidence of insurance canceled or altered except after **ten (10) days** from receipt by the City of written notice thereof.
- (b) The insurance evidenced by this certificate expressly includes blanket underground coverage including, but not limited to, injury to or destruction of wires, conduit pipes, mains, sewers, or other similar property, or any apparatus in connection therewith below the surface of the ground, whether or not such injury is caused by and occurs during the use of mechanical equipment, for the purpose of grading of land, paving, backfilling, excavating, or drilling, or to injury to or destruction of property at any time resulting there from.
- (c) The insurance evidenced by this certificate expressly includes personal injury or death by injury to or destruction of any property arising out of blasting or explosion, or the collapse of or structural injury to any buildings or structures due to grading of land, excavation, burrowing, filling, backfilling, or tunneling.

16. LAWS AND REGULATIONS. The bidder's attention is directed to the fact that all applicable state laws, municipal ordinances, and the rules and regulations of all authorities having jurisdiction over construction of the project shall apply to the contract throughout, and they will be deemed to be included in the contract the same as though herein written in full.

17. LIQUIDATED DAMAGES: The bidder agrees that, should the bidder fail to complete the work in the time

specified or such additional time as may be allowed by the engineer under the contract, the amount of liquidated damages to be recovered in accordance with Sec 108 shall be as follows:

The schedule of deductions for each day of overrun in contract time is as follows:

Liquidated damages per day: **\$700.00 / Seven hundred dollars**

18. **LIQUIDATION DAMAGES FOR FAILURE TO ENTER INTO CONTRACT.** The successful bidder, upon his failure or refusal to execute and deliver the contract and bonds required within the **ten (10) days** after he has received notice of the acceptance of his bid, shall forfeit to the City as liquidated damages for such failure or refusal, the security deposited with his bid.
19. **METHOD OF AWARD – LOWEST, RESPONSIBLE, RESPONSIVE BIDDER.** The contract will be awarded to the lowest, responsible, responsive bidder. The Local Agency has included alternate bid items. These alternate bid items will be included at the discretion of the City of O'Fallon. The City will evaluate the bids in the following order of priority: Base Bid, Base Bid plus Alternate Bid 1. The project will be awarded based on available project funds. The contractor shall bid on all alternates.
20. **MISCELLANEOUS.** The undersigned, as bidder, declares that the only persons or parties interested in this proposal as principal are those named herein; that this proposal is made without collusion or combination of any kind or character with any person, firm, association, or corporation, or any member or officer thereof; that he has carefully examined the location of the proposed work, the plans, standard specifications, and special provisions heretofore mentioned and the form of contract and contract bond; that he proposes, and agrees, if this execution of the bond by satisfactory surety and to provide all necessary machinery, tools, apparatus, and other means of construction, and will do all the work and furnish all the materials specified in the contract, in the manner and time therein prescribed and in accordance with the requirements of the engineer as therein set forth; and that he will accept in full payment therefore the amount or amounts certified by the engineer in accordance with one bid, specifications, and contract.
21. **NOTICE TO BIDDERS OF THIRD PARTY CONCURRENCE IN AWARD:** Bidders are advised that CITY is party to a contract with Federal Highway Administration (FHWA) and Missouri Department of Transportation (MoDOT) which provides that FHWA/MoDOT shall provide substantial funds for construction of Job No. CMAQ-5401(644) by reason of which FHWA/MoDOT has the right to concur or not concur in CITY's award of a contract for this job.

Bidders acknowledge that their bids are made with knowledge of and subject to the condition of FHWA/MoDOT concurrence in and prior authorization of any award of a contract for this job by City.

Bidders agree that they shall be stopped, both in law and equity, to assert any right to award of a contract for this job by City should FHWA/MoDOT not concur in that award for any reason.
22. **OBLIGATION OF BIDDER.** At the end of the opening of bids, each bidder will be presumed to have inspected the site and to have read and to be thoroughly familiar with the plans and contract documents (including all addenda). The failure or omission of any bidder to examine any form, instrument or document shall in no way relieve any bidder from any obligation in respect to his bid.
23. **OSHA TEN HOUR TRAINING REQUIREMENTS:** Missouri Law, 292.675 RSMO, requires any awarded contractor and its subcontractor(s) to provide a ten-hour Occupational Safety and Health Administration (OSHA) Construction Safety Program (or a similar program approved by the Missouri Department of Labor and Industrial Relations as a qualified substitute) for their on-site employees (laborers, workmen, drivers, equipment operators, and craftsmen) who have not previously completed such a program and are directly engaged in actual construction of the improvement (or working at a nearby or adjacent facility used for construction of the improvement). The awarded contractor and its subcontractor(s) shall require

all such employees to complete this ten-hour program, pursuant to 292.675 RSMO, unless they hold documentation on their prior completion of said program. Penalties, for Non-Compliance include contractor forfeiture to the Contracting Authority in the amount of \$2,500, plus \$100 per contractor and subcontractor employee for each calendar day such employee is employed beyond the elapsed time period for required program completion under 292.675 RSMO.

- 24. PAYMENT AND MATERIALS BOND.** A bond will be required for the full amount (100 percent Labor and Material) of the contract price with a surety company authorized to do business in the State of Missouri and satisfactory to the City, conditions for the faithful payment of this contract. The bond shall be executed in triplicate and in a form acceptable to the City. The cost of the payment and materials bond shall be incidental to the price bid for other items.
- 25. PERFORMANCE BOND:** See "Contract and Performance Bond" section in this Proposal.
- 26. PERIOD OF PERFORMANCE:** If the bid is accepted, the bidder agrees that work shall be diligently prosecuted at such rate and in such manner as, in the judgment of the engineer, is necessary for the completion of the work within the time specified as follows in accordance with Sec 108:
- Calendar Days: **120 calendar days**
- 27. PLANS.** The plans herein referred to are plans prepared by H.R. Green, Inc., St. Louis, Missouri, and marked with the project and route numbers, set out above, together with all standard or special design that may be designated in such plans. If bid documents are purchased electronically by means of a disc or download, it will be the Contractor's responsibility to print off the documents necessary to submit a complete bid.
- 28. POWER OF ATTORNEY.** Attorneys-in-fact who sign bid bonds or contract bonds must file with each bond a certified and effectively dated copy of their power of attorney.
- 29. PREPARATION OF BID.** Each bid must be submitted on the prescribed form. All blank spaces for bid prices must be filled-in, in ink or typewritten, in both words and figures.

Each bid must be submitted in a sealed envelope with the following:

1. Bids and bid modifications shall be submitted in sealed envelopes or packages
 - a. Addressed to the office specified in the proposal; and
 - b. Showing the time and date specified for receipt, the proposal name and number, and the name and address of the bidder.
2. If forwarded by mail, the sealed envelope containing the bid must be enclosed in another envelope addressed as specified in the bid form.
3. Bidders using commercial carrier services shall ensure that the bid is addressed and marked on the outermost envelope or wrapper as prescribed in paragraphs (1)(a) and (b) of this provision when delivered to the office specified in the solicitation.
4. Telegraphic bids, modifications, or withdrawals, shall not be considered unless authorized by the solicitation.
5. Facsimile bids, modifications, or withdrawals, shall not be considered unless authorized by the solicitation.
6. Bids submitted by electronic commerce shall not be considered.

The Bidder is responsible for ensuring that the bid is received before the date and time of the bid opening.

- 30. PREVAILING WAGE (FEDERAL AND STATE):** This contract requires payment of the prevailing hourly rate of wages for each craft or type of work required to execute the contract as determined by the Missouri Department of Labor and Industrial Relations, and requires adherence to a schedule of minimum wages as determined by the United States Department of Labor.

For work performed anywhere on this project, the contractor and the contractor's subcontractors shall pay the higher of these two applicable wage rates.

The applicable state wage rates for this contract are detailed in "**Annual Wage Order No. 19**", which is attached to this bidding document.

The applicable federal wage rates for this contract are the effective Davis-Bacon federal wage rates posted the tenth day before the bid opening date and are attached herein. The payment of predetermined minimum wages on federal-aid contracts is derived from the Davis-Bacon Act of 1931 and is prescribed by 23 USC 113, and to all related subcontracts, except for projects located on roadways classified as local roads or rural minor collectors, which are exempted and state wage rates will be used. However, other federal-aid provisions still apply.

These supplemental bidding documents have important legal consequences. It shall be conclusively presumed that they are in the bidder's possession, and they have been reviewed and used by the bidder in the preparation of any bid submitted on this project.

- 31. PRIME CONTRACTOR REQUIREMENTS:** The limitation in Sec 108.1.1 of the Missouri Standard Specifications for Highway Construction that "the contractor's organization shall perform work amounting to not less than 40 percent of the total contract cost" is waived for this contract. Instead, the less restrictive terms of the Federal Highway Administration's rule at Title 23 Code of Federal Regulations (CFR) § 635.116(a) shall apply, so that the contractor must perform project work with its own organization equal to and not less than thirty percent (30%) of the total original contract price.

Second-tier subcontracting will not be permitted on this contract. All other provisions in Sec 108.1.1 et seq. of the Missouri Standard Specifications for Highway Construction shall remain in full force and effect, and shall continue to govern the contractor and its subcontractors, in accordance with the provisions of Title 23 CFR § 635.116. It will be the responsibility of the contractor to ensure that his subcontractors do not, in turn, subcontract any portion of the work.

The contractor shall furnish to the City a signed copy of any subcontract on request.

- 32. PROPRIETARY ITEMS:** As outlined on the plans and/or JSP's, a Public Interest Finding was approved on this project for the use specific video detection system cameras and traffic signal controllers.
- 33. QUALIFICATION OF BIDDER.** The bidder must have a fully responsive contractor questionnaire on file with the Missouri Highways and Transportation Commission (MHTC) at least **seven (7) days** prior to the bid opening date. The City may make such investigations as it deems necessary to determine the ability of the bidder to perform the work, and the bidder shall furnish to the City, all such information and data for this purpose as the City may request. Conditional bids will not be accepted. (see Section 102.2 of the Missouri Standard Specifications for Highway Construction for more details)

Contractors who are currently suspended, debarred or voluntarily excluded under 2 CFR part 180, or otherwise determined to be ineligible shall be prohibited from participating in the Federal-Aid Highway Program.

- 34. QUANTITIES.** It is understood by the undersigned that the quantities given in the following itemized

proposal are not guaranteed by the City of O'Fallon and are used solely for the purpose of comparing bids and awarding the contract, and may or may not represent the actual quantities encountered on the job; and that the sum of the quantities listed in the following itemized proposal, multiplied by the unit price bid shall constitute the gross sum bid.

- 35. RECEIPT AND OPENING OF BIDS.** The City of O'Fallon (herein called the "City") invites bids on the form attached hereto, all blanks of which must be appropriately filled-in. Bids will be received by the City of O'Fallon, O'Fallon City Hall, 100 N. Main Street, O'Fallon, Missouri, until **10:00 A.M., October 26, 2012** which time, the bids will be publicly opened and read aloud. The envelopes containing the bids must be sealed, addressed City of O'Fallon, Attn: Mexico Road Intersection Improvements, 100 N. Main Street, O'Fallon, Missouri 63366. All sealed bids must contain the label that appears at the end of this section.

The City may consider any bid not prepared and submitted in accordance with the provisions hereof and may waive any informalities or reject any or all bids.

Bidders are responsible for submitting bids, and any modifications or withdrawals, so as to reach the City office designated in the invitation for bids by the time specified in the proposal.

Any bid, modification, or withdrawal received at the City designated in the proposal after the exact time specified for receipt of bids is "late" and will not be considered unless it is received before award is made, the City determines that accepting the late bid would not unduly delay the approval process; and there is acceptable evidence to establish that it was received at the City designated for receipt of bids and was under the City's control prior to the time set for receipt of bids.

However, a late modification of an otherwise successful bid that makes its terms more favorable to the City, will be considered at any time it is received and may be accepted.

Acceptable evidence to establish the time of receipt at the City includes the time/date stamp of that installation on the bid envelope, other documentary evidence of receipt maintained by the installation, or oral testimony or statements of City personnel.

If an emergency or unanticipated event interrupts normal City processes so that bids cannot be received at the City office designated for receipt of bids by the exact time specified in the proposal and urgent City requirements preclude amendment of the proposal, the time specified for receipt of bids will be deemed to be extended to the same time of day specified in the solicitation on the first work day on which normal City processes resume.

Bids may be withdrawn by written notice received at any time before the exact time set for receipt of bids. If the proposal authorizes facsimile bids, bids may be withdrawn via facsimile received at any time before the exact time set for receipt of bids. A bid may be withdrawn in person by a bidder or its authorized representative if, before the exact time set for receipt of bids, the identity of the person requesting withdrawal is established and the person signs a receipt for the bid.

- 36. RETAINAGE:** Retainage of contractor payment(s) is not to be automatically applied to this project. However, in accordance with the Missouri Prompt Payment Act (34.057 RsMO), the City of O'Fallon may withhold payment for any of the reasons outlined in RsMO 34.057, or as determined by the engineer.
- 37. RIGHT-OF-WAYS.** The City will provide all right-of-ways or temporary construction easements upon which work is to be done.
- 38. SALES AND USE TAX EXEMPTION:** The City of O'Fallon, MO, a tax exempt entity, will furnish a Missouri Project Exemption Certificate as described in Section 144.062 RSMo to the awarded contractor who in turn may use the certificate to purchase materials for a specific project performed for the tax exempt entity. Only the materials and supplies incorporated or consumed during the construction of the

project are exempt. Bidders shall include in their proposals any sales or use taxes which they are required by law to pay. The certificate will be issued to the contractor for a specific project for a defined period of time.

39. **SIGNING RESTRICTIONS:** The FHWA Division Administrator has determined that the PS&E provide for the erection of only those information signs and traffic control devices that conform to the standards developed by the Secretary of Transportation or mandates of Federal law and shall not include promotional or other informational signs regarding such matters as identification of public officials, contractors, organizational affiliations, and related logos and symbols.

The FHWA Division Administrator has determined that, where applicable, provisions shall be included in the PS&E that require the erection of funding source signs, for the life of the construction project, in accordance with section 154 of the Surface Transportation and Uniform Relocation Assistance Act of 1987.

40. **STATE AND FEDERAL INSPECTION:** The Federal Government is participating in the cost of construction of this project. All applicable Federal laws, and the regulations made pursuant to such laws, shall be observed by the contractor, and the work will be subject to the inspection of the appropriate State or Federal Agency in the same manner as provided in Sec 105.10 of the Missouri Standard Specifications for Highway Construction with all revisions applicable to this bid and contract.

MoDOT and FHWA may make inspection of the work and the contractor must grant them access to all parts of the work.

41. **TESTING/INSPECTION:** All technicians who perform, or are required by the FHWA to witness, such sampling and testing shall be deemed as qualified by the virtue of successfully completing the requirements of section 106.18 of MoDOT’s Engineering Policy Guide, “Technician Certification Program”.

All testing required by the specifications for the work under this contract shall be performed by the City or their designee. The contractor shall provide product samples at the request of the City or the testing firm hired by the City. Advanced notification to the City Engineer or his designee must be provided by 3:00 P.M. the day before any operation which will require samples and testing. If the operation is to occur on Monday, the contractor shall notify the City Engineer or designee by 3:00 P.M. the preceding Friday.

42. **TRAINEES:** No trainees are required under this contract.

43. **WORKER ELIGIBILITY/E-VERIFY:** Execution of the construction contract for this project is dependent upon the awarded bidder providing an Affidavit of Compliance AND E-Verify Memorandum-of-Understanding (MOU) between the bidder and Department of Homeland Security to the Contracting Authority as required by section 285.530 RSMo.

A sample Affidavit of Compliance can be found in **Section ix** herein this document and at the Missouri Attorney General’s website at the following link:

http://ago.mo.gov/forms/Affidavit_of_Compliance.pdf

All bidders must also be enrolled in the E-Verify Program, and include their MOU prior to contract execution. Bidders who are not enrolled will need to go to the following website link and select “Enroll in the Program” to get started. After completing the program, they will receive their E-Verify MOU with Department of Homeland Security. This document will need to be printed out and kept on file so that a copy can be attached to the Affidavit of Compliance.

http://www.dhs.gov/files/programs/gc_1185221678150.shtm

This requirement also applies to subcontractors and contract labor, but this contract only requires submittal of the verification documents for the prime contractor. It is the prime contractor's responsibility to verify the worker eligibility of their subcontractors in order to protect their own company from liability as required by section 285.530 RSMo.

A sample E-Verify MOU can be found in **Section ix** herein this document and at the following link
[http://www.uscis.gov/USCIS/E-Verify/Customer%20Support/Employer%20MOU%20\(September%202009\).pdf](http://www.uscis.gov/USCIS/E-Verify/Customer%20Support/Employer%20MOU%20(September%202009).pdf)

- 44. ITEMIZED BID/PROPOSAL:** The bidder should complete the following section in accordance with Sec 102.7. The bidder proposes to furnish all labor, materials, equipment, services, etc. required for the performance and completion of the work, as follows. The undersigned submits the following itemized proposal and hereby authorizes the City of O'Fallon to correct any multiplication of "Unit Price" by "Quantity" as shown under "Amount" when copying the itemized proposal sheet(s) into any contract.

(see the following sheets for the itemized proposal)

ITEMIZED PROPOSAL- CMAQ-5401(644) MEXICO ROAD INTERSECTION IMPROVEMENTS
(Page 1 of 3)

LINE NO.	ITEM NUMBER	ITEM DESCRIPTION	UNIT	UNIT COST	QUANTITY	ITEM COST
ROADWAY						
1	202-20.10	REMOVAL OF IMPROVEMENTS	LS		1	
2	203-99.07	GRANULAR BACKFILL	CY		22	
3	206-30.00	CLASS 3 EXCAVATON	CY		24	
4	207-99.09	LINEAR GRADING	LF		817	
5	207-99.10	LINEAR GRADING, SIDEWALK	LF		534	
6	304-05.04	TYPE 5 AGGREGATE FOR BASE (4 IN. THICK)	SY		1025	
7	401-01.03	10 INCHES, BITUMINOUS PAVEMENT	SY		271.4	
8	502-13.09	CONCRETE PAVEMENT (9 IN. NON-REINFORCED, 15 FT JOINTS)	SY		571.5	
9	604-20.20	ADJUSTING BASIN OR INLET	EA		1	
10	608-50.08	PAVED APPROACH, 8 IN.	SY		17.4	
11	609-10.42	CONCRETE GUTTER, TYPE B	LF		287	
12	609-20.11	INTEGRAL CURB (6 IN HEIGHT AND UNDER) TYPE A	LF		585	
13	616-10.05	CONSTRUCTION SIGNS	SF		507	
14	616-10.25	CHANNELIZER (TRIM LINE)	EA		67	
15	616-10.30	TYPE III MOVABLE BARRICADE	EA		3	
16	616-10.33	DIRECTIONAL INDICATOR BARRICADE	EA		16	
17	616-10.40	FLASHING ARROW PLANEL	EA		2	
18	618-10.00	MOBILIZATION	LS		1	
19	619-10.00	PAVEMENT EDGE TREATMENT	LF		1231	
20	627-40.00	CONTRACTOR FURNISHED SURVEYING AND STAKING	LS		1	
21	720-10.00	MECHANICALLY STABILIZED EARTH WALL SYSTEMS	SF		270	
22	726-99.12	12 IN. CLASS III REINFORCED CONCRETE PIPE	LF		5	
23	726-99.15	15 IN. CLASS III REINFORCED CONCRETE PIPE	LF		6	
24	726-99.18	18 IN. CLASS III REINFORCED CONCRETE PIPE	LF		6	
25	731-00.48	PRECAST CONCRETE MANHOLE, 48 IN.	LF		5	
26	731-10.30	PRECAST CONCRETE DROP INLET 3 FT. X 2 FT.-6 IN.	LF		7	
27	731-10.53	PRECAST CONCRETE DROP INLET 5 FT. X 3 FT.	LF		5	
28	803-20.00	KENTUCKY BLUEGRASS SODDING	SY		693	
29	806-99.01	INLET CHECK	EA		10	
30	806-99.02	STRAW WATTLE, 8 IN.	LF		1101	

ITEMIZED PROPOSAL- CMAQ-5401(644) MEXICO ROAD INTERSECTION IMPROVEMENTS
(Page 2 of 3)

LINE NO.	ITEM NUMBER	ITEM DESCRIPTION	UNIT	UNIT COST	QUANTITY	ITEM COST
SIGNALS / LIGHTING / SIGNING / STRIPING						
31	620-51.05	TYPE 2 PREFORMED MARKING TAPE (GROOVED), 6 IN., WHITE	LF		1153	
32	620-51.20	TYPE 2 PREFORMED MARKING TAPE (GROOVED), 24" IN., WHITE	LF		264	
33	620-51.30	TYPE 2 PREFORMED MARKING TAPE (GROOVED), LEFT/RIGHT ARROW	EA		12	
34	620-59.00	4 IN. WHITE HIGH BUILD ACRYLIC WATERBORNE PAVEMENT MARKING PAINT	LF		1494	
35	620-59.01	4 IN. YELLOW HIGH BUILD ACRYLIC WATERBORNE PAVEMENT MARKING PAINT	LF		1997	
36	620-70.01	PAVEMENT MARKING REMOVAL	LF		6621	
37	901-61.11	PULL BOX, PREFORMED CLASS 2	EA		10	
38	901-61.14	PULL BOX, PREFORMED CLASS 5	EA		1	
39	902-99.02	POWER SUPPLY ASSEMBLY, 240/120 VOLT SERVICE, LIGHTING AND SIGNALS	EA		1	
40	902-02.13	SIGNAL HEAD, TYPE 3S	EA		1	
41	902-05.14	SIGNAL HEAD, TYPE 4B	EA		4	
42	902-05.13	SIGNAL HEAD, TYPE 3B	EA		1	
43	902-05.15	SIGNAL HEAD, TYPE 5B	EA		2	
44	902-08.11	SIGNAL HEAD, TYPE 1S, PEDESTRIAN	EA		16	
45	902-27.08	POST, SIGNAL 8 FT. OR 2.4 M.	EA		5	
46	902-99.04	POST, SIGNAL 8 FT. OR 2.4 M., (POWDER COATED)	EA		5	
47	902-99.03	POST, TYPE CL, 55 FT. ARM, (POWDER COATED)	EA		1	
48	902-42.81	CONTROLLER ASSEMBLY HOUSING, KEYBORAD ENTRY, 8 PHASE NEMA CONTROLLER	EA		1	
49	902-52.00	CONDUIT, 2 IN., TRENCH	LF		7	
50	902-53.00	CONDUIT, 3 IN., TRENCH	LF		372	
51	902-72.00	CONDUIT, 2 IN., PUSHED	LF		120	
52	902-73.00	CONDUIT, 3 IN., PUSHED	LF		427	
53	902-82.08	CABLE, 8 AWG 1 CONDUCTOR, POWER	LF		50	
54	902-83.08	CABLE, 16 AWG 2 CONDUCTOR	LF		800	
55	902-83.11	CABLE, 16 AWG 7 CONDUCTOR	LF		6400	
56	902-83.54	FIBER OPTIC CABLE, 24- FIBER, 18 SINGLE MODE, 6 MULTIMODE	LF		210	
57	902-91.00	BASE, CONCRETE	CY		7.5	
58	902-99.05	VIDEO DETECTION SYSTEM MODIFICATION	EA		2	
59	903-50.68	SIGNAL SIGN, TYPE SHR2L-1	SF		25	

ITEMIZED PROPOSAL- CMAQ-5401(644) MEXICO ROAD INTERSECTION IMPROVEMENTS

(Page 3 of 3)

LINE NO.	ITEM NUMBER	ITEM DESCRIPTION	UNIT	UNIT COST	QUANTITY	ITEM COST
BICYCLE / PEDESTRIAN FACILITIES						
60	608-10.12	TRUNCATED DOMES	SF		215	
61	608-99.05	CONCRETE SIDEWALK , 4 IN.	SY		455.8	
62	608-99.04	CONCRETE CURB RAMP	SY		233.1	
		BASE BID TOTAL				
ALTERNATE BID 1						
LINE NO.	ITEM NUMBER	ITEM DESCRIPTION	UNIT	UNIT COST	QUANTITY	ITEM COST
ROADWAY						
63	613-10.10	FURNISHING AND PLACING CONC. MATERIAL FOR FULL DEPTH PVMT REPAIR	SY		200.0	
64	613-10.12	SUBGRADE COMPACTION (6 IN. DEPTH)	SY		200	
65	613-10.13	TYPE 1 OR 5 AGGREGATE FOR BASE (4 IN. THICK)	SY		200	
66	613-10.14	FULL DEPTH PAVEMENT REPAIR SAW CUT	LF		540	
67	613-10.15	DOWEL BAR (DRILLING, FURNISHING AND INSTALLATION)	EA		100	
68	613-10.17	DOWEL BAR (FURNISHING AND INSTALLATION WITH BASKETS)	EA		50	
69	613-10.18	TIE BAR (DRILLING, FURNISHING AND INSTALLATION)	EA		24	
		ALTERNATE BID 1 TOTAL				
BASE BID PLUS ALTERNATE BID 1						
		BASE BID PLUS ALTERNATE 1 TOTAL				

GRAND TOTAL OF BASE BID (AS WRITTEN):

GRAND TOTAL OF BASE BID PLUS ALTERNATE BID 1 (AS WRITTEN):

SIGNED:

Signature of Bidder (Responsible Person in Charge)

Date

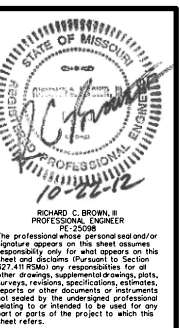
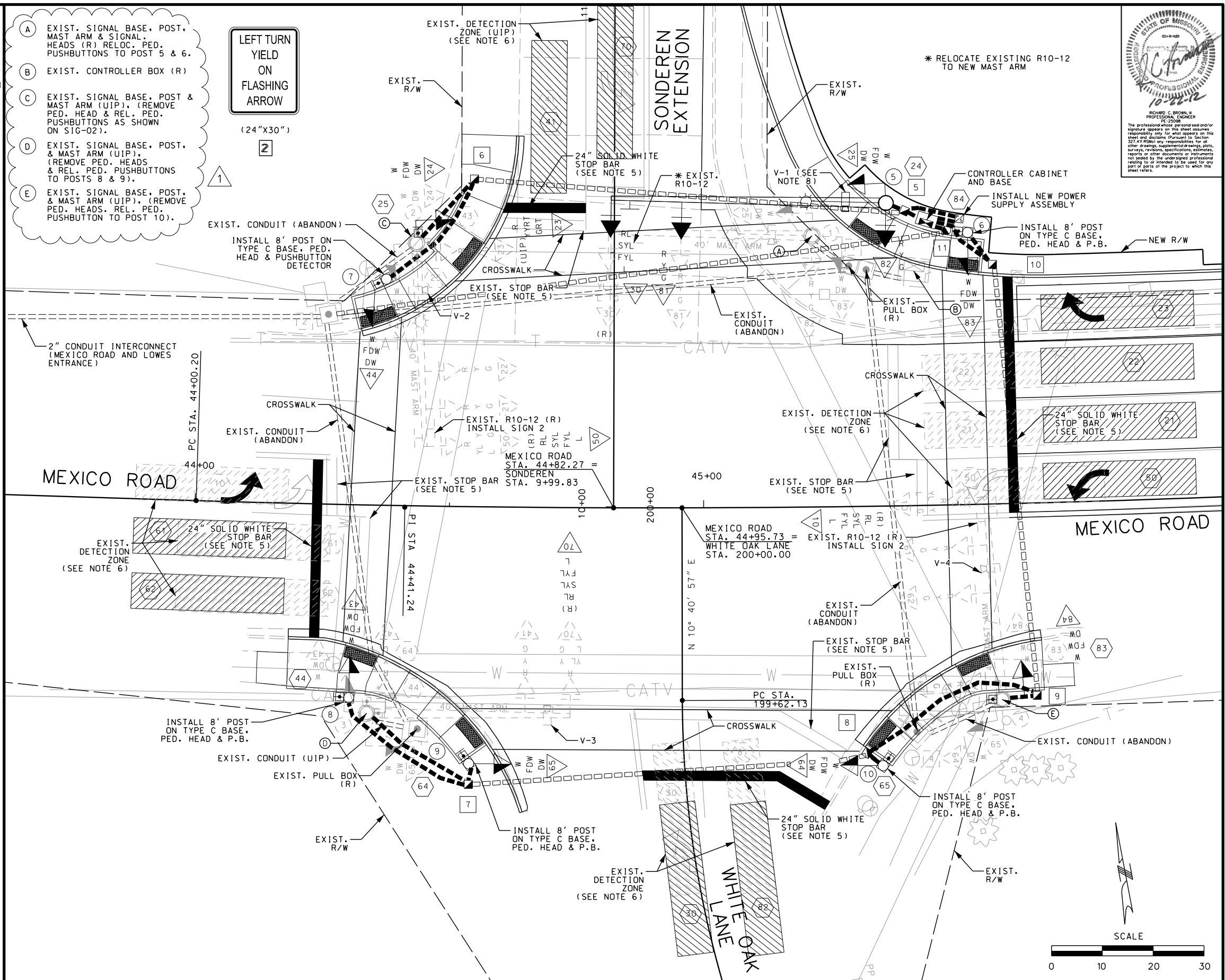
Title

Company

SIGNAL LEGEND

=====	EX. CONDUIT	C.C.	COAX (CAMERA) CABLE
=====	CONDUIT (PUSHED)	P.H.	PEDESTRIAN HEAD
=====	CONDUIT (TRENCHED)	P.B.	PEDESTRIAN PUSHBUTTON
▲	PEDESTRIAN SIGNAL HEAD w/COUNTDOWN TIMER	X-XC	MULTI-CONDUCTOR CABLE 16 AWG (UNLESS OTHERWISE NOTED)
▲	EX. PEDESTRIAN SIGNAL HEAD	●	PREFORMED CLASS 5 PULL BOX
▲	TRAFFIC SIGNAL HEAD	V-X	VIDEO CAMERA WITH IDENTIFIER
▲	EX. TRAFFIC SIGNAL HEAD		
■	PREFORMED PULL BOX		
□	TYPE C BASE		
☀	EXISTING SIGNAL POLE MOUNTED LUMINAIRE		
☀	SIGNAL POLE MOUNTED LUMINAIRE		
□	PUSHBUTTON DETECTOR (PB)		
□	EX. CLASS 5 PULLBOX		
□	EX. PULL BOX		
—	EX. POST & MAST ARM		
—	POST & MAST ARM		
□	CONTROLLER CABINET AND BASE		
□	EX. CONTROLLER CABINET AND BASE		
□	EX. VIDEO DETECTION CAMERA		
□	EX. PREMPTION DETECTOR		
□	VIDEO DETECTION CAMERA		
■	EX. DETECTION ZONE		
■	RELOCATED DETECTION ZONE		
□	PEDESTRIAN PUSH BUTTON WITH SIGN		
□	EX. PULL BOX IDENTIFIER		
□	EX. SIGNAL POLE IDENTIFIER		
□	EX. SIGNAL/PED. HEAD IDENTIFIER		
□	EX. PED. PUSHBUTTON IDENTIFIER		
□	PULL BOX IDENTIFIER		
□	SIGNAL POLE IDENTIFIER		
□	SIGNAL/PED. HEAD IDENTIFIER		
□	PED. PUSHBUTTON IDENTIFIER		

- NOTES:
- USE IN PLACE EXISTING SIGNAL EQUIPMENT UNLESS OTHERWISE NOTED.
 - NO DIRECT PAYMENT SHALL BE MADE TO RELOCATE EXISTING PEDESTRIAN PUSHBUTTONS.
 - PEDESTRIAN COUNTDOWN TIMERS SHALL BE USED ON ALL PEDESTRIAN SIGNAL INDICATORS.
 - SEE SIG-02 FOR WIRING DIAGRAM AND SIG-03 & 04 FOR PROPOSED SIGNAL EQUIPMENT SCHEDULES.
 - SEE SHEETS SGN-01 FOR STRIPING AND SIGNING DETAILS.
 - EXISTING VIDEO DETECTION ZONES SHALL BE ADJUSTED AS NECESSARY.
 - EXISTING TRAFFIC SIGNAL LAYOUT, INCLUDING EXISTING CONDUIT LOCATIONS, AND EXISTING CONDUCTOR RUNS ARE PLOTTED USING AVAILABLE SURVEY DATA. THE OWNER DOES NOT WARRANT THESE FACILITIES AS PRECISE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL SIGNAL FACILITIES.
 - EXISTING DETECTION CAMERA SHALL BE REINSTALLED ON NEW MAST ARM.
 - ALL CONDUCTORS IN CONDUITS TO BE ABANDONED SHALL BE REMOVED.



DRAWN BY: EBS JOB DATE: JUNE 2012
 APPROVED: RCB JOB NUMBER: 75110006
 CAD DATE: 10/23/2012 9:19:30 AM
 CAD FILE: Q:\75110006\CAD\Drawn\024_SIG_01_75110006_110.dgn

NO.	DATE	BY	REVISION DESCRIPTION
1	10-16-12	EBS	CHANGE DUE TO MODIFICATION OF PAY ITEM



HR GREEN, INC.
 16020 SWINGLEY RIDGE ROAD, SUITE 205
 ST. LOUIS, MISSOURI 63017
 PHONE: (636) 519-0990
 CORPORATE LICENSE #2002006608

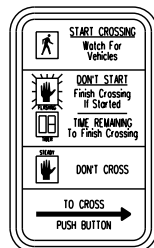
MEXICO ROAD INTERSECTION IMPROVEMENTS
 CITY OF O'FALLON
 ST. CHARLES COUNTY, MISSOURI

INTERSECTION OF:
 MEXICO AND SONDEREN
 TRAFFIC SIGNAL PLAN (SHEET 1 OF 11)

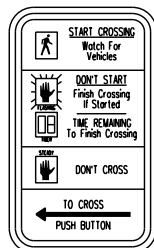
SHEET NO.
SIG-01

SIGNAL LEGEND

=====	EX. CONDUIT	C.C.	COAX (CAMERA) CABLE
□□□□	CONDUIT (PUSHED)	P.H.	PEDESTRIAN HEAD
■■■■■	CONDUIT (TRENCHED)	P.B.	PEDESTRIAN PUSHBUTTON
	PEDESTRIAN SIGNAL HEAD	X-XC	MULTI-CONDUCTOR CABLE
	EX. PEDESTRIAN SIGNAL HEAD	16 AWG (UNLESS OTHERWISE NOTED)	
	TRAFFIC SIGNAL HEAD	V-X	VIDEO CAMERA WITH IDENTIFIER
	EX. TRAFFIC SIGNAL HEAD	●	PREFORMED CLASS 5 PULL BOX
	PREFORMED PULL BOX		
	TYPE C BASE		
	EXISTING SIGNAL POLE MOUNTED LUMINAIRE		
	SIGNAL POLE MOUNTED LUMINAIRE		
	PUSHBUTTON DETECTOR (PB)		
	EX. CLASS 5 PULLBOX		
	EX. PULL BOX		
	EX. POST & MAST ARM		
	POST & MAST ARM		
	CONTROLLER CABINET AND BASE		
	EX. CONTROLLER CABINET AND BASE		
	EX. VIDEO DETECTION CAMERA		
	EX. PREEMPTION DETECTOR		
	VIDEO DETECTION CAMERA		
	EX. DETECTION ZONE		
	DETECTION ZONE		
	PEDESTRIAN PUSH BUTTON WITH SIGN		
	EX. PULL BOX IDENTIFIER		
	EX. SIGNAL POLE IDENTIFIER		
	EX. SIGNAL/PED. HEAD IDENTIFIER		
	EX. PED. PUSHBUTTON IDENTIFIER		
	PULL BOX IDENTIFIER		
	SIGNAL POLE IDENTIFIER		
	SIGNAL/PED. HEAD IDENTIFIER		
	PED. PUSHBUTTON IDENTIFIER		



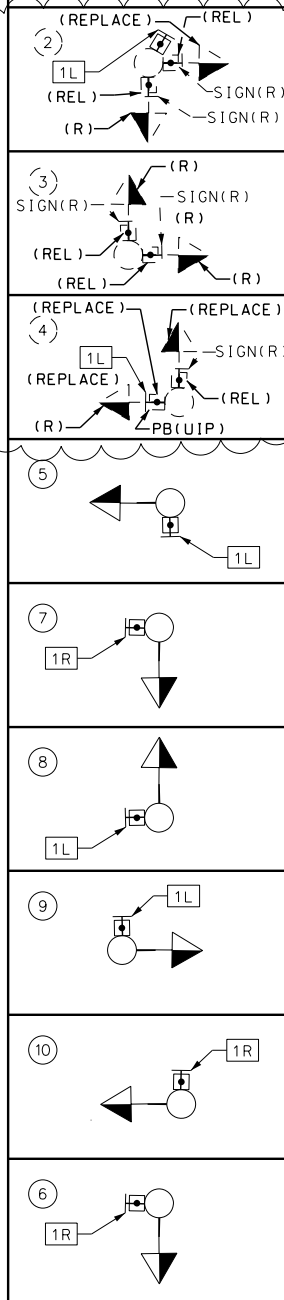
R10-3E (9"x15")



R10-3E (9"x15")

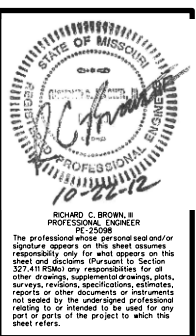
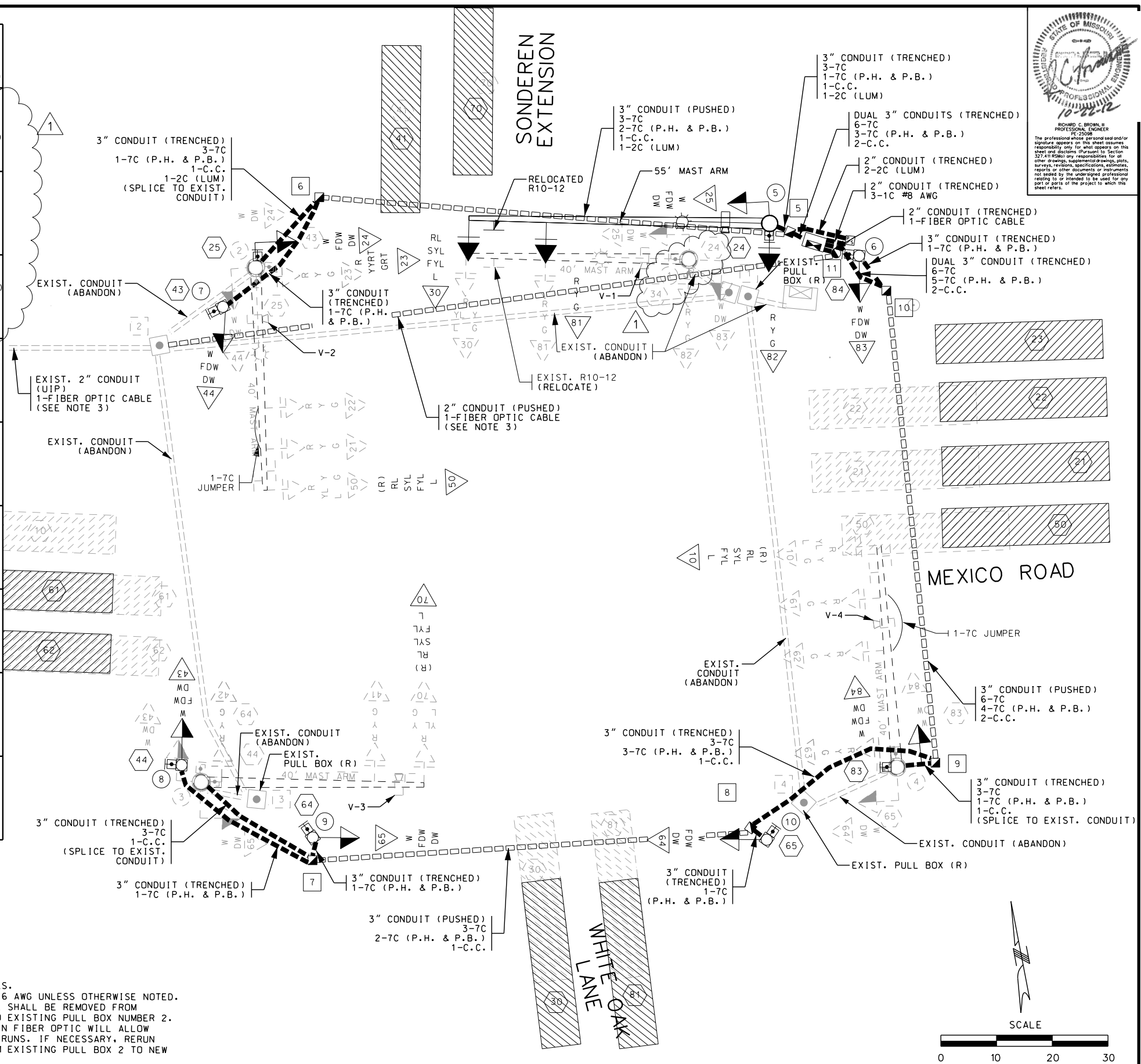
SIGN LEGEND (SIGNS TO BE MOUNTED ON SIGNAL POST)

PUSHBUTTON, PED. HEAD & SIGN MOUNTING



NOTES:

- SEE SIG-01 FOR SIGNAL NOTES.
- ALL CONDUCTORS SHALL BE #16 AWG UNLESS OTHERWISE NOTED.
- EXISTING FIBER OPTIC CABLE SHALL BE REMOVED FROM EXISTING CONTROLLER BOX TO EXISTING PULL BOX NUMBER 2. FIELD DETERMINE IF SLACK IN FIBER OPTIC WILL ALLOW REUSE THROUGH NEW CONDUIT RUNS. IF NECESSARY, RERUN NEW FIBER OPTIC CABLE FROM EXISTING PULL BOX 2 TO NEW CONTROLLER.



DRAWN BY: EBS JOB DATE: JUNE 2012
 APPROVED: RCB JOB NUMBER: 75110006
 CAD DATE: 10/23/2012 9:20:46 AM
 CAD FILE: Q:\75110006\CAD\025_SIG_02_75110006_110.dgn

NO.	DATE	BY	REVISION DESCRIPTION
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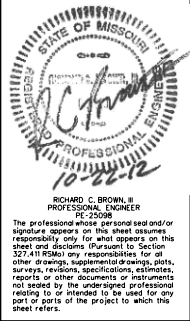


HR GREEN, INC.
 16020 SWINGLEY RIDGE ROAD, SUITE 205
 ST. LOUIS, MISSOURI 63017
 PHONE: (636) 519-0990
 CORPORATE LICENSE #2002006608

MEXICO ROAD INTERSECTION IMPROVEMENTS
 CITY OF O'FALLON
 ST. CHARLES COUNTY, MISSOURI

INTERSECTION OF:
 MEXICO AND SONDEREN
 WIRING DIAGRAM (SHEET 2 OF 11)

SHEET NO.
SIG-02



POWER SUPPLY												
LOCATION			POWER SUPPLY ASSEMBLY		CIRCUIT BREAKER TRIP RATING (1)				LIGHTING CONTROL (1) (ON POWER SUPPLY)		SERVICE POLE	
APPROACH	STATION	OFFSET	PAD MOUNTED	DRAWING	CONTROLLER		POWER SUPPLY DISCONNECT				CONTRACT FURNISH	UTILITY COMPANY
					AUXILIARY BREAKER	CONT & SIGNAL LAMPS	MAIN BREAKER					
							SIGNALS	LIGHTING	120 VOLT CONTROL CABINET	MAIN BREAKER		
MEXICO RD.	45+51.51	56.3' LT.	1		15 AMPS	50 AMPS	100 AMPS		1	100 AMPS		AMEREN UE

CONTROLLER ASSEMBLY AND AUXILIARY EQUIPMENT																					
LOCATION			SYSTEM MASTER (CLOSED LOOP)		ACTUATED		ON-OFF (1) SWITCH		COORDINATION INTERFACE (1)					TIME (1) CLOCK	NEMA CABINET TYPE (1)			170 CABINET TYPE (1)		170 SOFTWARE (1)	
APPROACH	STATION	OFFSET					TYPE	12C/7C HARDWIRE (3)		TIME BASE	CLOSED LOOP		FIBER		E	EV	DOUBLE	332	336S	BITRAN	WAPITI
			NEMA	170	NEMA	170	I	II	MASTER		LOCAL			NEMA	170		1				
MEXICO RD.	45+44.91	56.0' LT.			1							1(3)			1						

SEE STANDARD PLAN 902.10 FOR ADDITIONAL CABINET INFORMATION

DETECTOR SCHEDULE						
DETECTOR NUMBER	APPROACH	TYPE				VIDEO(2)
		PUSH BUTTON	INDUCTION LOOP (1)			
			STANDARD	DELAY/ EXTEND (1)	CALL UNIT (1)	
50	MEXICO RD.					ADJUST
21	MEXICO RD.					ADJUST
22	MEXICO RD.					ADJUST
23	MEXICO RD.					NEW ZONE
70	SONDEREN EXT.					ADJUST
41	SONDEREN EXT.					ADJUST
10	MEXICO RD.					ADJUST
61	MEXICO RD.					ADJUST
62	MEXICO RD.					ADJUST
30	WHITE OAK					ADJUST
81	WHITE OAK					ADJUST
24	MEXICO RD.	1				
25	MEXICO RD.	1				
43	MEXICO RD.	1				
44	MEXICO RD.	1				
64	MEXICO RD.	1				
65	MEXICO RD.	1				
83	MEXICO RD.	1				
84	MEXICO RD.	1				
SUBTOTAL		(1)				11

VIDEO DETECTION CAMERAS (2)(4)	
CAMERA NO.	LOCATION
V-1	* EXIST. MAST ARM POLE 1
V-2	EXIST. MAST ARM POLE 2
V-3	EXIST. MAST ARM POLE 3
V-4	EXIST. MAST ARM POLE 4

* MOVE EXISTING CAMERA TO MAST ARM OF POLE 5

NEMA LOAD SWITCH ASSIGNMENTS															
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Ø1	Ø2	Ø3	Ø4	Ø5	Ø6	Ø7	Ø8	ØLA	ØLB	ØLC	ØLD	Ø2 PED	Ø4 PED	Ø6 PED	Ø8 PED

VIDEO DETECTION SYSTEM MODIFICATION = 1 EA.

NOTES:

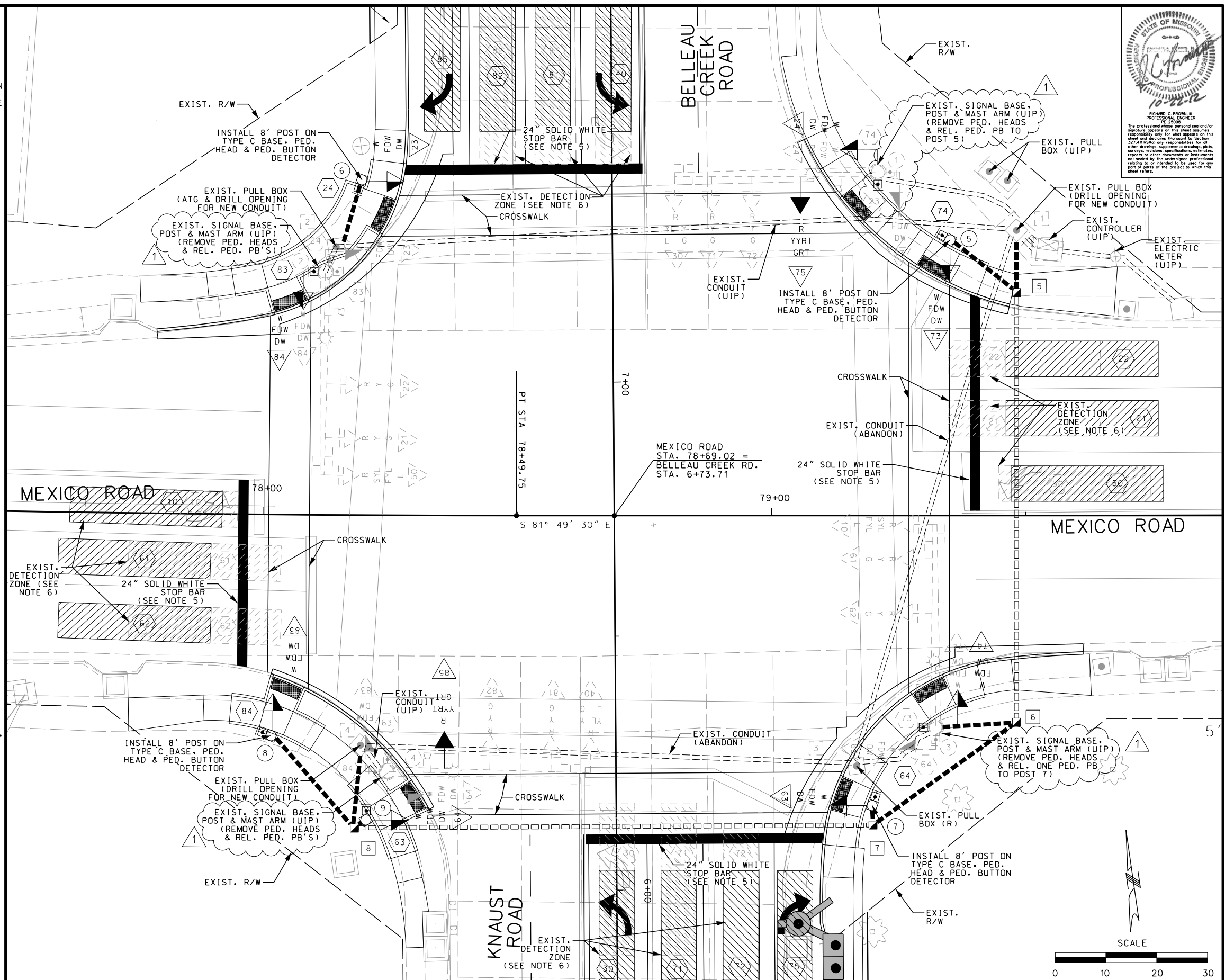
- (1) ITEMS FOR WHICH SEPARATE PAYMENT WILL NOT BE MADE.
- (2) ITEMS INCLUDED IN PAY ITEM "VIDEO DETECTION SYSTEM MODIFICATION".
- (3) CONTROLLER SHALL BE FIBER READY AND FYA COMPATIBLE.(SEE JOB SPECIAL PROVISIONS).



SIGNAL LEGEND

=====	EX. CONDUIT	C.C.	COAX (CAMERA) CABLE
=====	CONDUIT (PUSHED)	P.H.	PEDESTRIAN HEAD
=====	CONDUIT (TRENCHED)	P.B.	PEDESTRIAN PUSHBUTTON
-----	PEDESTRIAN SIGNAL HEAD w/COUNTDOWN TIMER	X-XC	MULTI-CONDUCTOR CABLE 16 AWG (UNLESS OTHERWISE NOTED)
-----	EX. PEDESTRIAN SIGNAL HEAD	V-X	VIDEO CAMERA WITH IDENTIFIER
-----	TRAFFIC SIGNAL HEAD		
-----	EX. TRAFFIC SIGNAL HEAD		
-----	PREFORMED PULL BOX		
-----	TYPE C BASE		
-----	EXISTING SIGNAL POLE MOUNTED LUMINAIRE		
-----	SIGNAL POLE MOUNTED LUMINAIRE		
-----	PUSHBUTTON DETECTOR (PB)		
-----	EX. CLASS 5 PULLBOX		
-----	EX. PULL BOX		
-----	EX. POST & MAST ARM		
-----	POST & MAST ARM		
-----	CONTROLLER CABINET AND BASE		
-----	EX. CONTROLLER CABINET AND BASE		
-----	EX. VIDEO DETECTION CAMERA		
-----	EX. PREMPTION DETECTOR		
-----	VIDEO DETECTION CAMERA		
-----	EX. DETECTION ZONE		
-----	RELOCATED DETECTION ZONE		
-----	PEDESTRIAN PUSH BUTTON WITH SIGN		
-----	EX. PULL BOX IDENTIFIER		
-----	EX. SIGNAL POLE IDENTIFIER		
-----	EX. SIGNAL/PED. HEAD IDENTIFIER		
-----	EX. PED. PUSHBUTTON IDENTIFIER		
-----	PULL BOX IDENTIFIER		
-----	SIGNAL POLE IDENTIFIER		
-----	SIGNAL/PED. HEAD IDENTIFIER		
-----	PED. PUSHBUTTON IDENTIFIER		

- NOTES:
1. USE IN PLACE EXISTING SIGNAL EQUIPMENT UNLESS OTHERWISE NOTED.
 2. NO DIRECT PAYMENT SHALL BE MADE TO RELOCATE EXISTING PEDESTRIAN PUSHBUTTONS.
 3. PEDESTRIAN COUNTDOWN TIMERS SHALL BE USED ON ALL PEDESTRIAN SIGNAL INDICATORS.
 4. SEE SIG-06 FOR WIRING DIAGRAM AND SIG-07 & 08 FOR PROPOSED SIGNAL EQUIPMENT SCHEDULES.
 5. SEE SGN-02 FOR STRIPING AND SIGNING DETAILS.
 6. EXISTING VIDEO DETECTION ZONES SHALL BE ADJUSTED TO RELOCATED STOP BARS.
 7. EXISTING TRAFFIC SIGNAL LAYOUT, INCLUDING EXISTING CONDUIT LOCATIONS, AND EXISTING CONDUCTOR RUNS ARE PLOTTED USING AVAILABLE SURVEY DATA. THE OWNER DOES NOT WARRANT THESE FACILITIES AS PRECISE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL SIGNAL FACILITIES.
 8. ALL CONDUCTORS IN CONDUITS TO BE ABANDONED SHALL BE REMOVED.



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NO.	DATE	BY	REVISION DESCRIPTION
1	10-16-12	EBS	CHANGE DUE TO MODIFICATION OF PAY ITEM



HR GREEN, INC.
 16020 SWINGLEY RIDGE ROAD, SUITE 205
 ST. LOUIS, MISSOURI 63017
 PHONE: (636) 519-0990
 CORPORATE LICENSE #2002006608

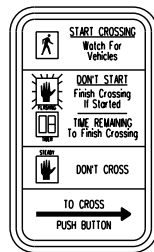
MEXICO ROAD INTERSECTION IMPROVEMENTS
 CITY OF O'FALLON
 ST. CHARLES COUNTY, MISSOURI

INTERSECTION OF:
 MEXICO AND BELLEAU/KNAUST
 TRAFFIC SIGNAL PLAN (SHEET 6 OF 11)

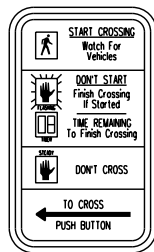
SHEET NO.
SIG-06

SIGNAL LEGEND

=====	EX. CONDUIT	C.C.	COAX (CAMERA) CABLE
□□□□	CONDUIT (PUSHED)	P.H.	PEDESTRIAN HEAD
-----	CONDUIT (TRENCHED)	P.B.	PEDESTRIAN PUSHBUTTON
▲	PEDESTRIAN SIGNAL HEAD W/COUNTDOWN TIMER	X-XC	MULTI-CONDUCTOR CABLE 16 AWG (UNLESS OTHERWISE NOTED)
▲	EX. PEDESTRIAN SIGNAL HEAD	V-X	VIDEO DETECTOR WITH IDENTIFIER
▲	TRAFFIC SIGNAL HEAD		
▲	EX. TRAFFIC SIGNAL HEAD		
■	PREFORMED PULL BOX		
□	TYPE C BASE		
☀	EXISTING SIGNAL POLE MOUNTED LUMINAIRE		
☀	SIGNAL POLE MOUNTED LUMINAIRE		
□	PUSHBUTTON DETECTOR (PB)		
○	EX. CLASS 5 PULLBOX		
□	EX. PULL BOX		
---	EX. POST & MAST ARM		
---	POST & MAST ARM		
□	CONTROLLER CABINET AND BASE		
□	EX. CONTROLLER CABINET AND BASE		
□	EX. VIDEO DETECTION CAMERA		
□	EX. PREMPTION DETECTOR		
□	VIDEO DETECTION CAMERA		
▨	EX. DETECTION ZONE		
▨	RELOCATED DETECTION ZONE		
□	PEDESTRIAN PUSH BUTTON WITH SIGN		
[X]	EX. PULL BOX IDENTIFIER		
(X)	EX. SIGNAL POLE IDENTIFIER		
<X>	EX. SIGNAL/PED. HEAD IDENTIFIER		
<X>	EX. PED. PUSHBUTTON IDENTIFIER		
[X]	PULL BOX IDENTIFIER		
(X)	SIGNAL POLE IDENTIFIER		
<X>	SIGNAL/PED. HEAD IDENTIFIER		
[X]	PED. PUSHBUTTON IDENTIFIER		



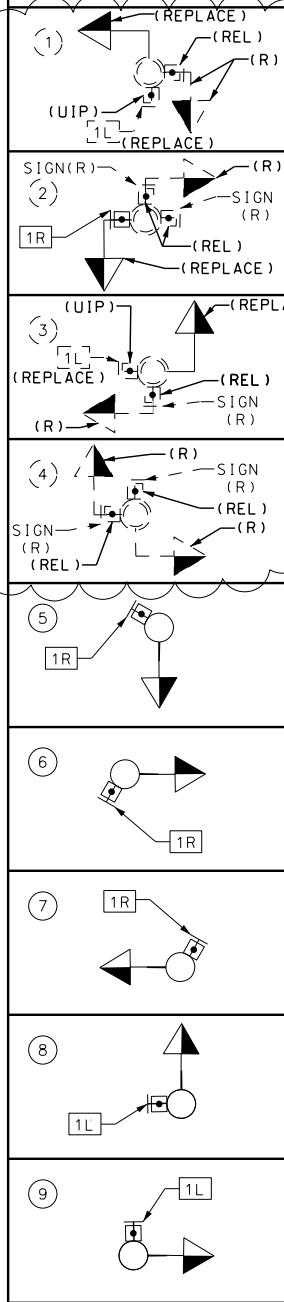
R10-3E
(9"x15")



L10-3E
(9"x15")

SIGN LEGEND (SIGNS TO BE MOUNTED ON SIGNAL POST)

PUSHBUTTON, PED. HEAD & SIGN MOUNTING



* 7C JUMPER SHALL BE
VERIFIED IN THE FIELD
BY CONTRACTOR. TOTAL
NUMBER ON 7C CONDUCTORS 3" CONDUIT (TRENCHED)
MAY INCREASE WITH THE
ABSENCE OF JUMPERS.

* PEDESTRIAN HEAD AND PUSHBUTTON
MAY BE ON SEPARATE CONDUCTORS.
ONE 5C AND ONE 2C.

- NOTES:
- SEE SIG-05 FOR SIGNAL NOTES
 - ALL CONDUCTORS SHALL BE 16
AWG UNLESS OTHERWISE NOTED.

- ALL CONDUCTORS SHALL BE REMOVED
FROM ABANDONED CONDUITS.

- ALL PEDESTRIAN LEGEND SIGNS SHALL BE
REMOVED AND REPLACED WITH THE APPROPRIATE
R10-3E SHOWN ON THESE PLANS.

BELLEAU CREEK ROAD

EXIST. CONDUIT (UIP)
2-7C
*2-7C (P.H. & P.B.)
1-C.C.
1-2C (LUM)
(REMOVE 2-7C FROM P.H.
& P.B. REMOVAL)
2-7C (P.H. & P.B.)
1-7C

EXIST. CONDUIT (UIP)
2-7C
*2-7C (P.H. & P.B.)
1-C.C.
1-2C (LUM)
1-7C (P.H. & P.B.)
(REMOVE 2-7C
FROM P.H. &
P.B. REMOVAL)
2-7C (P.H. & P.B.)

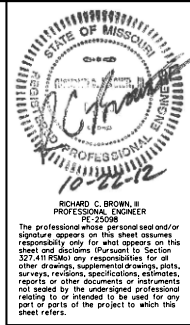
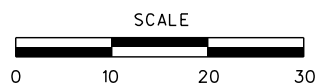
EXIST. CONDUIT (UIP)
8-7C
*8-7C (P.H. & P.B.)
4-C.C.
4-2C (LUM)
6-7C (P.H. & P.B.)
2-C.C.
2-2C (LUM)
(REMOVE ALL EXISTING
CONDUCTORS FROM ABANDONED
CONDUITS)

MEXICO ROAD

3" CONDUIT (PUSHED)
5-7C
4-7C (P.B. & P.H.)
2-C.C.
2-2C (LUM)

3" CONDUIT (TRENCHED)
2-7C
1-7C (P.B. & P.H.)
1-C.C.
1-2C (LUM)

3" CONDUIT (TRENCHED)
3-7C
3-7C (P.B. & P.H.)
1-C.C.
1-2C (LUM)



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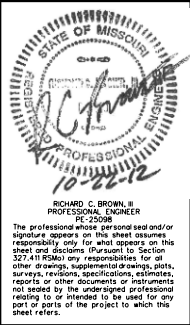


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MEXICO ROAD INTERSECTION IMPROVEMENTS
CITY OF O'FALLON
ST. CHARLES COUNTY, MISSOURI

INTERSECTION OF:
MEXICO AND BELLEAU/KNAUST
WIRING DIAGRAM (SHEET 7 OF 11)

SHEET NO.
SIG-07



POWER SUPPLY												
LOCATION			POWER SUPPLY ASSEMBLY		CIRCUIT BREAKER TRIP RATING (1)			LIGHTING CONTROL (1) (ON POWER SUPPLY)		SERVICE POLE		
APPROACH	STATION	OFFSET	PAD MOUNTED	DRAWING	CONTROLLER		POWER SUPPLY DISCONNECT		120 VOLT CONTROL CABINET	MAIN BREAKER	CONTRACT FURNISH	UTILITY COMPANY
					AUXILIARY BREAKER	CONT. & SIGNAL LAMPS	MAIN BREAKER					
							SIGNALS	LIGHTING				
USE EXISTING POWER SUPPLY EQUIPMENT												

CONTROLLER ASSEMBLY AND AUXILIARY EQUIPMENT																					
LOCATION			SYSTEM MASTER (CLOSED LOOP)		ACTUATED		ON-OFF (1) SWITCH		COORDINATION INTERFACE (1)					TIME (1) CLOCK	NEMA CABINET TYPE (1)			170 CABINET TYPE (1)		170 SOFTWARE (1)	
APPROACH	STATION	OFFSET					TYPE	12C/7C HARDWIRE		TIME BASE	CLOSED LOOP		FIBER		E	EV	DOUBLE	332	336S	BITRAN	WAPITI
			NEMA	170	NEMA	170	I	II	MASTER		LOCAL			NEMA	170						
MEXICO RD.	79+54.70	53.5' .LT.			UIP																

SEE STANDARD PLAN 902.10 FOR ADDITIONAL CABINET INFORMATION

DETECTOR SCHEDULE						
DETECTOR NUMBER	APPROACH	TYPE				
		PUSH BUTTON	INDUCTION LOOP (1)			VIDEO (3)
			STANDARD	DELAY/ EXTEND (1)	CALL UNIT (1)	
50	MEXICO RD.					ADJUST
21	MEXICO RD.					ADJUST
22	MEXICO RD.					ADJUST
10	MEXICO RD.					ADJUST
61	MEXICO RD.					ADJUST
62	MEXICO RD.					ADJUST
30	KNAUST RD.					ADJUST
71	KNAUST RD.					ADJUST
72	KNAUST RD.					ADJUST
75	KNAUST RD.					NEW ZONE
40	BELLEAU CREEK RD.					ADJUST
81	BELLEAU CREEK RD.					ADJUST
82	BELLEAU CREEK RD.					ADJUST
85	BELLEAU CREEK RD.					NEW ZONE
23	MEXICO RD.	1				
24	MEXICO RD.	1				
63	MEXICO RD.	1				
64	MEXICO RD.	1				
73	MEXICO RD.	1				
74	MEXICO RD.	1				
83	MEXICO RD.	1				
84	MEXICO RD.	1				
SUBTOTAL		(1)				14

1
VIDEO DETECTION SYSTEM MODIFICATION = 1 EA.

NOTES:

- (1) ITEMS FOR WHICH SEPARATE PAYMENT WILL NOT BE MADE.
- (2) TOTAL SIGN QUANTITIES INCLUDE SUBTOTALS FROM SHEETS SIG-03 & 04 AND SIG-07 & 08.
- (3) ITEMS ARE INCLUDED IN PAY ITEM "VIDEO DETECTION SYSTEM MODIFICATION"

SIGNS				
QUANTITY	MUTCD SIGN NUMBER	SIZE (INCHES)	AREA (SQ. FT.)	TOTAL AREA EACH SIGN (SQ. FT.)
4	R10-3E, RIGHT	9" x 15"	0.94	3.8
4	R10-3E, LEFT	9" x 15"	0.94	3.8
SUBTOTAL AREA ITEM NO. 903-50.68				7.6

LEGEND
T - TOP MOUNT
S - SIDE MOUNT
C - SPANWIRE MOUNT
B - MAST ARM MOUNT

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INTERSECTION OF:
MEXICO AND BELLEAU/KNAUST
SIGNAL QUANTITIES (SHEET 8 OF 11)

SHEET NO.
SIG-08