



East Sewershed Package 1
SAWS Job No. 16-4515
SAWS Solicitation No. CO-00105

ADDENDUM NO. 2
March 22, 2017

To Bidder of Record:

This addendum, applicable to work referenced above, is an amendment to the bidding documents and as such will be a part of and included in the Contract Documents. Acknowledge receipt of this addendum by entering the addendum number and issue date in the space provided in the bid proposal.

A. Questions Submitted to SAWS

1. No questions were submitted during the required timeframe.

B. Bidding and Contract Requirements:

1. INSTRUCTIONS TO BIDDERS

- a. Remove the Instructions to Bidders in its entirety and replace with the version attached to this Addendum (Rev. 01/25/2017).

2. CONTRACTOR'S BID PACKET CHECKLIST

- a. Remove Contractor's Bid Packet Checklist in its entirety and replace with the revised version. This version should be used by Bidders when submitting a bid for this project.

3. BID PROPOSAL

- a. The estimated cost for this project has changed to \$3,370,716.75, which is also reflected on SAWS website at the following link:
http://www.saws.org/business_center/contractsol/Drill.cfm?id=1892&View=yes
- b. Remove the BID PROPOSAL (BP-1 through BP-4) in its entirety and replace with the attached. This version should be used when submitting a proposal for this project.
The Bid Proposal Quantity changed on Items 54, 56 and 57.

4. SUPPLEMENTAL CONDITIONS

- a. Remove from Page 1 of the Supplemental Conditions (SS-1), **Instructions to Bidders IB-1**, Page IB-7, the following: Instructions to Bidders IB-1, Page IB-7, first paragraph of Item 25(c) shall be replaced with the Statement of Bidders Experience. The remainder of Item #25 is unchanged.
- b. Remove Item 24, Page IB-7 of Instructions to Bidders, and replace with the following:

24. To assist the San Antonio Water System Contracting Office in performing the bidder evaluation and subsequent recommendation of award, all bidders must submit the following items with their bid. Failure to provide the required information within the specific time, may result in determining a non-responsive bidder:
- (a) An information packet on company showing experience, organization and equipment.
 - (b) A statement regarding ability to complete the project within the schedule taking into account existing commitments.
 - (c) Statement of Bidder's Experience
 - (d) A completed and signed W-9 Request for Taxpayer Identification Number and Certification form.

c. The following Supplemental Condition language is added to the General Conditions.

1. Article 5.16 PUBLIC UTILITIES

Add the following paragraph 5.16.2.7.:

Contractors using trenchless construction methods, such as pipe bursting, that create ground displacement and/or vibrations and therefore pose potential for damage to nearby existing utilities are responsible for protecting the integrity of all nearby utilities (public or private) either shown on the Plans or discovered during the Contractor investigations required in Article 5.16.2.2 herein. Such method of protection shall first be reviewed and approved by the affected utility.

5. SPECIAL CONDITIONS

1. The following is to be added to the Special Conditions:

4.0 CoSA REQUIREMENT

- a. Contractor is to follow all CoSA requirements for project signage and visible identification when working within CoSA R.O.W.
- b. Contractor is to follow the CoSA requirement for impacted collector or arterial streets, which requires the Contractor to provide a seven (7) day notification by electronic message board before work is to occur and a three (3) day notification be made by door hanger to impacted residents or businesses.
- c. Traffic Control Plans provided are suggested routes only. Contractor shall submit their Traffic Control Plans to CoSA for review and approval at no additional cost to SAWS.

C. MODIFICATIONS TO THE PLANS

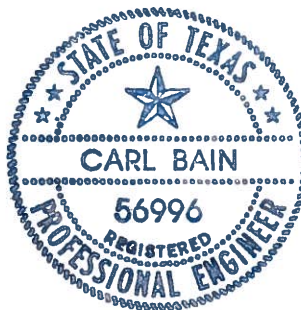
1. The following Plan Sheets have been revised and are attached to this Addendum:

- a. Sheet 2 of 118 – General Notes and Summary of Quantities
- b. Sheet 5 & 6 of 118 – Table of Quantities
- c. Sheet 12 of 118 – Traffic Control Plan, Plan View - Segment 999339, Work Site 01
- d. Sheet 14 of 118 – Plan View – Area B6, Segment 1014713 & 1001256, Work Site 01
- e. Sheet 16 of 118 – Plan View – Area B6, Segment 1014580, Work Site 01

- f. Sheet 18 of 118 – Traffic Control Plan, Plan View – Segment 1014580, 1014581, 1001256 & 1014713, Work Site 01
- g. Sheet 23 of 118 – Traffic Control Plan, Plan View – Segment 1000973, 1002893, 1003639, 1003583 & 1002008, Work Site 01
- h. Sheet 25 of 118 – Traffic Control Plan, Plan View – Segment 1012141, Work Site 01
- i. Sheet 33 of 118 – Plan View – Area C7, Segment 1000908, Work Site 01
- j. Sheet 34 of 118 – Traffic Control Plan, Plan View – Segment 1000908, Work Site 01
- k. Sheet 36 of 118 – Traffic Control Plan, Plan View – Segment 1043918, Work Site 01
- l. Sheet 44 of 118 – Traffic Control Plan, Plan View – Segment 1014760 & 1000802, Work Site 02
- m. Sheet 45 of 118 – Plan View – Area E3, Segment 1002021 & 1001784, Work Site 02
- n. Sheet 47 of 118 – Plan View – Area E3, Segment 1001499 & 1000862, Work Site 02
- o. Sheet 48 of 118 – Plan View – Area E3, Segment 1000862 & 1012289, Work Site 02
- p. Sheet 49 of 118 – Plan View – Area E3, Segment 1003572, 1014764 & 1012289, Work Site 02
- q. Sheet 50 of 118 – Traffic Control Plan, Plan View – Segment 1001784, 1002021, 1000801 & 1001499, Work Site 02
- r. Sheet 51 of 118 – Traffic Control Plan, Plan View – Segment 1003572, 1014764, 1012289 & 1000862, Work Site 02
- s. Sheet 55 of 118 – Traffic Control Plan, Plan View – Segment 1003506 & 1003653, Work Site 02
- t. Sheet 61 of 118 – Traffic Control Plan, Plan View – Segment 1041703 & 1000806, Work Site 02
- u. Sheet 71 of 118 – Traffic Control Plan, Plan View – Segment 1050022 & 1050215, Work Site 02
- v. Sheet 73 of 118 – Plan View – Area J2 – Segment 1042342 & 1042341, Work Site 02
- w. Sheet 74 of 118 – Plan View – Area J2 – Segment 1042341 & 1053156, Work Site 02
- x. Sheet 75 of 118 – Plan View – Area J2 – Segment 1053156 & 1053157, Work Site 02
- y. Sheet 83 of 118 - Plan View – Area G5, Segment 999507 & 1009823, Work Site 03
- z. Sheet 91 of 118 – Plan View – Area G5, Segment 1000640, Work Site 03
- aa. Sheet 92 of 118 – Plan View – Area G5, Segment 996672 & 998303, Work Site 03
- bb. Sheet 104 of 118 – Plan View – Area H4, Segment 999263, Work Site 03
- cc. Sheet 107 of 118 – Plan View – Area H5, Segment 999104 & 998489, Work Site 03

This Addendum, including this page and all attachments, is forty-five (45) pages in its entirety.

Carl Bain, P.E.
Project Engineer
Bain Medina Bain, Inc.



Attachments:

- Instructions to Bidders (Rev. 01/25/2017) (7 pages)
- Contractor's Bid Packet Checklist (1 page)
- Bid Proposal - BP-1 thru BP-4 (4 pages)
- Revised Plan Sheets (30 sheets)

END OF ADDENDUM NO. 2

INSTRUCTIONS TO BIDDERS

1. Bids will be submitted in accordance with the following:
 - a. Sealed bids will be received by the office of **Contract Administration Division, San Antonio Water System, 2800 U.S. Hwy 281 North, Customer Center Building, Suite 171, San Antonio, Texas 78212**, until the time specified in the Invitation to Bidders.
 - b. If the submittal of a sealed bid is by any means other than personal/hand delivery, then it is the bidder's sole responsibility to ensure the bid is delivered to the exact location specified above, no later than the exact time specified in the Invitation to Bidders.
 - c. All bids errantly submitted or delivered to a location other than the exact location stated above will be returned unopened.
 - d. All bids received after the exact time set for the bid opening in the Invitation to Bidders will be returned unopened.
 - e. The San Antonio Water System Contracting Office may, at its sole discretion, without waiver of rights or authority, in equity or at law, return unopened, any bid not meeting the exact requirements as stated above.
2. Bids will be opened in accordance with the following:
 - a. Bids will be opened in a public setting and read aloud by a Contract Administration representative.
 - b. The lowest bid received at the time of the bid opening shall be designated as the "apparent low bid," whether announced in that manner or not, and shall not represent an acceptance of an offer.
 - c. All bid results are unofficially, tentative and subject to verification on the day of the bid opening.
 - d. No bid may be withdrawn after the scheduled bid opening time without the written consent of a Contract Administration representative.
 - e. The "official" bid results will be tallied on a "bid tabulation sheet" and may, within 10 business days of the bid opening, be posted on the San Antonio Water System's web site.
3. All bids must be accompanied by Certified or Cashier's Check or an approved Bid Bond in the amount of not less than five percent (5%) of the total bid, payable without recourse to the San Antonio Water System. Surety shall provide a copy of the Power of Attorney authorizing the Executing Agent the authority to execute the bid bond documents and bind the Surety to the bid bond conditions. The bid bond shall have a corporate Surety that is licensed to conduct business in Texas and authorized to underwrite bonds in the amount of the bid bond. ***Submission of an Individual Surety is not acceptable for purposes of bonding a bid bond.*** Bid Bonds, Certified or Cashier's checks will be retained for the first, second, and third lowest bidders until the contract is executed.
4. Bids must be submitted on the original bid form attached herein and shall be sealed in an envelope plainly marked on the outside with job number, the date and time of the bid opening, and the name of project bid on.
5. Bids will be prepared in accordance with the following:

- (a) The Bidder shall thoroughly examine the drawings, specifications, schedule, instructions and all other documents.
- (b) Bidder shall make all investigations necessary to be informed thoroughly regarding plant and facilities for delivery of material and equipment as required by the bid conditions. No plea of ignorance by the Bidder of conditions that exist, or that may hereafter exist as a result of failure or omission on the part of the Bidder to make the necessary examinations and investigations to fulfill in every detail the requirements of the contract documents, will be accepted as the basis for varying the requirements of the San Antonio Water System or the compensation to the Contractor. Bidders are required, prior to submitting the Bid Proposal, to review the plans and read the specifications, special provisions and or special conditions, any addendums issued, proposal, contract and bond forms carefully; to visit the site of the work; to examine carefully local conditions; to inform themselves by their independent research, tests and investigations of the difficulties to be encountered and judge for themselves the accessibility of the work and all attending circumstances affecting the cost of doing the work or time required for its completion; and to obtain all information required to make an intelligent proposal. Bidders shall rely exclusively upon their own estimates, investigations, tests and other data which are necessary for full and complete information upon which the proposal may be based. Any bidder, by submitting his Bid Proposal, represents and warrants: that he has prepared his bid in accordance with the specifications, with full knowledge and understanding of the terms and provisions thereof; that he has reviewed, studied and examined the bid prior to the signing and submission of same; and that he was cognizant of the terms of his proposal, verified his calculations and found them to be correct and agrees to be bound thereby; and that he has visited the site of work, has fully familiarized himself with the local and on-site conditions under which the work is to be performed and has correlated his observation with the requirements of the contract documents. In addition, the Bidder represents that he has satisfied himself as to subsurface conditions at the site of the work. Information, data and representations contained in the contract documents pertaining to the conditions at the site, including but not limited to subsurface conditions, are for information only and are not warranted or represented in any manner to accurately show the conditions at the site of the work. All risks of differing conditions at the site, including but not limited to subsurface conditions shall be borne solely by the Bidder.
- (c) The Bidder shall furnish all information required by the bid form. The Bidder shall print or type his name and manually sign the Bid Proposal in the required area of the document.
- (d) The Bidder is required to submit a Good Faith Effort Plan form and all SMWVB Certification Certificates for the bidder or their subcontractors as part of the bid package. Bidder and/or their agents may contact the SMWVB Program Manager, Marisol V. Robles, at 210-233-3420 for assistance or clarification with issues specifically related to the Small, Minority, Woman and Veteran-owned Business (SMWVB) Program policy and/or completion of the Good Faith Effort Plan form.
- (e) The Bidder is required to submit a completed Conflict of Interest Questionnaire (CIQ Form). Effective January 1, 2006, Chapter 176 of the Texas Local Government Code requires that persons, or their agents, who seek to contract for the sale or purchase of property, goods, or services with SAWS shall file a completed Conflict of Interest Questionnaire (CIQ) with SAWS. The CIQ Form will be submitted as part of the bid. This form is available from the Texas Ethics Commission at www.ethics.state.tx.us. Please consult your own legal advisor if you have questions regarding the statute or form. To report suspected ethics violations impacting The San Antonio Water System, please call 1-800-687-1918.

- (f) The Bidder is required to submit as part of the bid a letter from the insurance provider stating provider's commitment to insure the Contractor for the types of coverage's or an Insurance Certificate to be in conformance with the types of coverage's noted in General Conditions Section 5.7 – Contractor's Insurance Requirements, if awarded the contract.
- (g) Pursuant to Section 151.311 of the Texas Tax Code, as amended, in order for the San Antonio Water System to continue to benefit from its status as a State Sales and Use Tax Exempt Organization, construction contracts must be awarded on a "separated contract" basis. A "separated contract" is one that distinguishes the value of the tangible personal property (materials such as pipe, bricks, lumber, concrete, paint, etc.) to be incorporated into the project from the total contract price. Under the "separated contract" format, the contractor in effect becomes a "seller" to the San Antonio Water System of materials that are to be physically incorporated into the project realty. As a "seller", the contractor will issue a "Texas Certificate of Resale" to the supplier in lieu of paying the sales tax on materials at the time of purchase. The contractor will also issue a "Certificate of Exemption" to the supplier demonstrating that the personal property is being purchased for resale and that the resale is to a department of the City of San Antonio, Texas, which is a sales tax exempt entity. Contractors should be careful to consult the most recent guidelines of the State Comptroller of Public Accounts regarding the sales tax status of supplies and equipment that are used and consumed during project work but that are not physically incorporated into the project realty. Contractors that have questions about this law are asked to inquire with the State Comptroller of Public Accounts, at (512) 463-4600. Bidders will not include any federal taxes in bid prices since the San Antonio Water System is exempt from payment of such taxes. "Texas Certificates of Exemption", "Texas Certificates of Resale" and "Texas Sales Tax Permits" are forms available to the contractor through the regional offices of the State Comptroller of Public Accounts.
6. Bidders should adhere to the following restrictions in communication:
- (a) Bidders or their representatives are prohibited from communicating with any City of San Antonio officials regarding this solicitation from the time it is released until it has been acted upon by the Board of Trustees, which includes:
- City Council members (as defined by the City of San Antonio Ethics Code),
 - City Council member's staff, and
 - San Antonio Water System (SAWS) Board of Trustees.
- (b) Bidders or their representatives are prohibited from communicating with SAWS employees regarding this IFB, except as provided under "Technical Questions" to the point of contact identified within the Invitation to Bidders, from the time the solicitation is released until the contract is awarded.
- (c) Bidders or their representatives are prohibited from communicating with the Consultant, Developer, or any contract staff who were or are involved in the development of this IFB, regarding this IFB, from the time the solicitation is released until the contract is awarded.
- (d) Communication includes "thank you" letters, phone calls, emails, and any contact that results in direct or indirect discussion of the IFB and/or bid submitted.
- (e) If it is determined that a Bidder violates this provision, SAWS may disqualify the bid from consideration.
7. Any catalogue or manufacturer's reference used in describing an item is merely descriptive, and not restrictive unless otherwise noted, and is used only to indicate type and quality of material. When items proposed differ in any way from those specified, Bidders are required to state exactly what they intend to furnish. Otherwise, they shall be required to furnish the items as specified.

8. The work shall be done and completed in accordance with the following Contract Documents as furnished by the San Antonio Water System:
 - a. The Invitation to Bidders
 - b. The Instructions to Bidders
 - c. The Bid Proposal
 - d. The Payment Bond
 - e. The Performance Bond
 - f. The General Conditions of the Contract
 - g. The Supplemental Conditions of the Contract
 - h. The Special Conditions of the Contract
 - i. The Construction Specifications
 - j. The Standard Drawings
 - k. Addenda
 - l. Change Orders
 - m. Good Faith Effort Plan
 - n. Conflict of Interest Questionnaire

9. The successful Bidder will be required to execute the standard San Antonio Water System Contract Agreement, Performance and Payment Bonds as outlined in the General Conditions. These forms will be prepared and furnished by the San Antonio Water System. Surety shall provide a copy of the Power of Attorney authorizing the Executing Agent the authority to execute the bond documents and bind the Surety to the bond conditions. These bonds shall have a corporate Surety that is licensed to conduct business in Texas and authorized to underwrite bonds in the amount of the project. Contractor agrees that all Performance and Payment Bonds required shall be submitted in accordance with General Conditions, Sections 3.4 & 3.5. If the contract amount does not exceed \$25,000.00, then the Performance and Payment Bonds will not be required.

10. Where there is an error in the extension, the San Antonio Water System Contracting Office will extend the written unit price and make any corrections necessary. Any error will be corrected, and the correct amount will be the basis for determining the bid position.

11. Bidders are advised that estimated quantities of anticipated requirements during the contract period are not calculated with certainty. It is the policy of the Board, however, as a matter of prudent buying and contracting, to establish in advance of actual purchase or performance of the work, the price of the work which is anticipated, and the price on certain items calculated on the maximum number of a particular item which it might need during a contract period. Bidders are advised that during such period, the Board may determine not to purchase any of the items or may delete any or all of the work listed in a bid or invitation. Under such a contract, the Board's only commitment is to purchase the items from or proceed with the work by the successful Bidder at the price bid if the Board should, in fact, decide to purchase such items during the contract period or proceed with such work as proposed. On all bids, the Board reserves the right to reject a bid, which in the Board's judgment is "unbalanced." An "unbalanced bid" is defined as one in which a particular item or a class of items is bid at a figure sufficiently less than or higher than either general market price or Bidder's cost, so as to make the Bidder low on the overall bid but high on a significant number of other items. The Board reserves the right to exercise its judgment and reject such a bid as unqualified. If the Board nevertheless accepts such an unbalanced bid and the contract is awarded, the Board reserves the right to delete any or all of such items from the purchases to be made or work to be done.

12. SAWS will provide all necessary easements for the project.

13. No owner, stockholder, partner, officer, or employee of the Bidder, or any person who has a financial interest in this contract in any way, whether direct or indirect, shall be an officer or employee of the San Antonio Water System or the City of San Antonio at the time of bidding on this contract, or during the life of this contract. Any violations of this provision will render the bid or contract void.
14. The Contractor will establish a San Antonio address and telephone number and file that information with the Contracting Officer prior to starting work. If the contractor does not have a local office then they must submit the address and telephone number of the field office established for this project. The Contractor's address and telephone number will be maintained until the work is completed and accepted by the owner.
15. In case of ambiguity, duplication or obscurity in the bids, the San Antonio Water System Contracting Office reserves the right to construe and apply the meaning thereof. The San Antonio Water System Contracting Office reserves the right to reject any and all bids and to waive formalities.
16. The San Antonio Water System Contracting Office reserves the right, subject to the Contractor's approval, to extend any annual contract for an additional period of not more than one year, subject to the same terms and conditions as enumerated in the invitation and instruction to Bidders and at a price or prices not to exceed the prices quoted.
17. It is anticipated that the contract will be awarded within **60** days after bid opening to the **Responsible Bidder** whose bid, conforming to the invitation for bids, is most advantageous to the San Antonio Water System. Bidders are advised that the awarding of contracts on a bid basis is a requirement of state law and city charter. The purposes of such requirements are: (1) to prevent the historic abuses of negotiated purchases; (2) to enable the Board to use its purchasing power to buy at the lowest possible prices for the benefit of the system and the public; and (3) to enable the Board to award the contract to other than the low Bidder when, in the Board's judgment, the low Bidder is not qualified. Bidders are advised that it is not the intention of the Board, necessarily, to award contracts on the basis of differences in the bids other than differences in basic "price of the item." The Board reserves the right to take whichever action as may, in the judgment of the Board, be in its best interest as follows:
 - (1) Reject all bids;
 - (2) Award the bids by the drawing of lots; or
 - (3) Award the bids on the basis of differences other than price.

Bidders are advised that the awarding of bids is a matter solely within the jurisdiction of the Board of Trustees. The San Antonio Water System reserves the right to accept any items or groups of items in this bid. Execution of written acceptance of a bid by the San Antonio Water System shall constitute an award.

18. The San Antonio Water System Contracting Office may reject the apparent low Bidder when: (a) the Bidder misstates or conceals any material fact in the bid, or if (b) the Bidder does not conform with the law or the bid, or if (c) the bid is conditional, or if (d) the bid is unbalanced, or when (e) the lowest Bidder is not, in the Board's judgment, qualified, or when (f) the lowest bid is not, in the Board's judgment, the lowest and best bid, or if (g) the Bidder fails to acknowledge in the final bid price of the bid any and all addendums issued on the bid proposal prior to bid opening, or if (h) the Bidder fails to follow the restriction from communication outlined in the Instructions to Bidders.

It will be the full responsibility of each Bidder to visit the SAWS web site to verify the existence of and acknowledge on the bid proposal, any and all addendums issued by the San Antonio Water System. The San Antonio Water System Contracting Office reserves the right to reject any and all bids, to accept any bids, or parts thereof, considered by the San Antonio Water System to be in its best interest, and to waive formalities or irregularities.

19. The Bidder in preparing his bid, shall take cognizance of the difficulty of distinguishing between boulders and ledge rock, the difficulty of accurately classifying all material encountered in making the subsurface investigations, the possible erosion of stream channels and banks after survey data has been obtained, and the unreliability of water elevations other than those for the date recorded. Claims for additional compensation due to variations between conditions actually encountered in a construction and as indicated in the plans will not be allowed.
20. All contracts in excess of \$10,000 with contractors or suppliers having 15 or more employees will include the clauses listed below:
- (a) The Contractor will not discriminate against any employee or applicant for employment because of race, color, religion, sex, pregnancy, sexual orientation, national origin, political belief or affiliation, age, disability or genetic information. The Contractor will assure that employees or applicants for employment are treated in a fair and equitable manner in such actions which shall include but not be limited to the following: Employment, upgrading, demotion or transfer, recruitment or recruitment advertising, layoff or termination, rates of pay or other forms of compensation, and selection for training including apprenticeship. The Contractor will post in conspicuous places for the benefit of the employee and applicants for employment notices setting forth the provisions of this nondiscrimination clause.
 - (b) Upon request, the Contractor will furnish to the San Antonio Water System all information and reports and will permit access to the books, records, and accounts for the purposes of an investigation to ascertain compliance with rules and regulations set forth by this organization.
 - (c) If a Contractor is found not to be in compliance with the nondiscrimination clause of this contract, the contract may be canceled, terminated, or suspended in all or in part and the Contractor may be debarred from further contracts with the San Antonio Water System.
 - (d) All Bidders or prospective Contractors or Subcontractors will be required to submit a statement in writing signed by an authorized official or agent in behalf of the company to the effect that the signer's practices and policies do not discriminate on the grounds of race, color, religion, sex, or national origin.

The Contractor shall comply with all provisions of Executive Order 11246, Equal Employment Opportunity, dated 24 September 1965 or as amended and with Section 3 of the Housing and Urban Development Act of 1968 covering opportunities for business and lower financed HUD assisted projects.

Statement on President's Executive Orders

Has your firm previously performed work subject to the President's Executive Orders Numbers 11246 and 11375 or any preceding similar executive orders (Numbers 10925 and 11114)?

Yes No

Contractors/Consultants/Vendors on work paid by federal funds will be required to comply with the president's executive order no. 11246, "Equal Employment Opportunity," as amended by executive order no. 11375, "amending executive order 11246 relating to equal employment opportunity," and as supplemented by regulations at 41 CFR part 60, Office of Federal Contract Compliance Programs, Equal Employment Opportunity, Department Of Labor.

21. Approval of Plans and/or Specifications by an employee of SAWS shall not constitute an assumption of liability by the San Antonio Water System or such employee for any inaccuracy of computation or deficiency of design therein.

22. Bidder shall not offer, confer, or agree to confer any benefit or gift to any San Antonio Water System Employee, Officer, or Trustee of the Board of the San Antonio Water System and Water System employees are prohibited from soliciting, accepting or agreeing to accept any gifts from outside sources; please see Section M. – Gifts or Benefits of the Water System’s Code of Ethical Standards. Section M of the Water System’s Code of Ethical Standards regarding Gifts or Benefits is available on the SAWS Business Center website.
23. Contractor shall comply with the "WORKERS COMPENSATION INSURANCE COVERAGE REQUIREMENTS" as noted on Section 5.7 CONTRACTOR'S INSURANCE REQUIREMENTS of the General Conditions for further clarification.
24. To assist the San Antonio Water System Contracting Office in performing the bidder evaluation and subsequent recommendation of award, the apparent low bidder will submit the following items within one (1) day of the bid opening. Failure to provide the required information within the specific time, may result in determining a non-responsive bidder:
 - (a) An information packet on company showing experience, organization and equipment.
 - (b) A statement regarding ability to complete the project within the schedule taking into account existing commitments.
 - (e) Record of performance on three (3) similar projects completed within the last 5 years including name of project, amount of project, project duration, name, address, and telephone number of contact person for each project.
 - (f) A completed and signed W-9 Request for Taxpayer Identification Number and Certification form.
 - (g) **For projects with a construction estimate of \$10,000,000 or greater:**
A complete financial statement for your organization that was prepared within the past 12 months, by an independent Certified Public Accountant, and a point of contact for your banking institution.

In 2015, and made effective as of January 1, 2016, the Texas Legislature adopted House Bill 1295, which added section 2252.908 of the Government Code. The law states that a governmental entity or state agency may not enter into certain contracts with a business entity unless the business entity submits a disclosure of interested parties (Form 1295) to the governmental entity or state agency at the time the business entity submits the signed contract to the governmental entity or state agency. The Texas Ethics Commission has adopted rules requiring the business entity to file Form 1295 electronically with the Commission. The online filing application is available on the Texas Ethics Commission (TEC)’s website. A copy of the completed form, which will include a certification of filing that with a unique certification number, will be required with the signed contract. For additional information, Bidders may go to the Texas Ethics Commission website at the following link:

https://ethics.state.tx.us/whatsnew/elf_info_form1295.htm

CONTRACTOR'S BID PACKET CHECKLIST:
East Sewershed Package I
SAWS Job No. 16-4515
SAWS Solicitation No. CO-00105

Items to be included for Submittal with Bid:

- Baseline Schedule
- Bid proposal and Acknowledgement of All Addendums
- Proposal Certification; page PC-1
- Bid Bond/Cashier's Check
- Statement on President's Executive Orders – Page IB 6 or 7
- Good Faith Effort Plan
- Conflict of Interest Questionnaire - Form CIQ (*Rev. 11/30/2015*)
- Proof of Insurability (Letter from Insurer or Sample Certificate of Insurance)
- Company Information Packet
- Statement regarding ability to complete the project
- Statement of Bidder's Experience
- W-9

BID PROPOSAL

PROPOSAL OF _____, a corporation

a partnership consisting of

an individual doing business as

THE SAN ANTONIO WATER SYSTEM:

Pursuant to Instructions and Invitation to Bidders, the undersigned proposes to furnish all labor and materials as specified and perform the work required for the project as specified, in accordance with the Plans and Specifications for the following prices to wit:

(PLEASE SEE ATTACHED PDF LIST OF BID ITEMS)

TOTAL BID PRICE

\$ _____

BIDDER'S SIGNATURE & TITLE

FIRM'S NAME (TYPE OR PRINT)

FIRM'S ADDRESS

FIRM'S PHONE NO. /FAX NO.

FIRM'S EMAIL ADDRESS

The Contractor herein acknowledges receipt of the following:
Addendum Nos. _____

OWNER RESERVES THE RIGHT TO ACCEPT THE OVERALL MOST RESPONSIBLE BID.

The bidder offers to construct the Project in accordance with the Contract Documents for the contract price, and to complete the Project within **360** calendar days after the start date, as set forth in the Authorization to Proceed. **The bidder understands and accepts the provisions of the contract Documents relating to liquidated damages of the project if not completed on time.**

Complete the additional requirements of the Bid Proposal which are included on the following pages.



Solicitation No.: CO - 00105

SAWS Job #: 16-4515

Proposal: East Sewershed Package 1

Item No	Item Description	Unit	Quantity	Unit Price	Total Amount
1	103.1	Remove Concrete Curb (COSA Spec)	LF	28	
2	103.3	Remove Concrete Sidewalks and Driveways (COSA Spec)	SF	616	
3	103.4	Remove Miscellaneous Concrete (COSA Spec)	SF	258	
4	205.3	Hot Mix Asphaltic Pavement, Type C (3" Compacted Depth) (COSA Spec)	SY	69	
5	205.4	Hot Mix Asphaltic Pavement, Type D (2" Compacted Depth) (COSA Spec)	SY	824	
6	206.1	Asphalt Treated Base (ATB) (10" Compacted Depth) (COSA Spec)	SY	264	
7	206.1	Asphalt Treated Base (ATB) (12" Compacted Depth) (COSA Spec)	SY	63	
8	208.1	Salvaging, Hauling & Stockpiling Reclaimable Asphaltic Pavement(2" Depth) (COSA Spec)	SY	594	
9	208.2	Salvaging, Hauling & Stockpiling Reclaimable Asphaltic Pavement(3" Depth) (COSA Spec)	SY	50	
10	413	Flowable Fill (COSA Spec)	CY	42	
11	500.1	Concrete Curb (COSA Spec)	LF	28	
12	502.1	Concrete Sidewalks (COSA Spec)	SY	43	
13	503.1	Portland Cement Concrete Driveway (COSA Spec)	SY	28	
14	503.2	Portland Cement Concrete Driveways-Commercial (COSA Spec)	SY	10	
15	505.1	Concrete Riprap (5" Thick) (COSA Spec)	SY	29	
16	515.1	Topsoil (COSA Spec)	CY	407	
17	516.1	Bermuda Sodding (COSA Spec)	SY	439	
18	516.2	St. Augustine Sodding (COSA Spec)	SY	6,969	
19	530.1	Barricades, Signs, and Traffic Handling (COSA Spec) (Work Site 01)	LS	1	
20	530.1	Barricades, Signs, and Traffic Handling (COSA Spec) (Work Site 02)	LS	1	
21	530.1	Barricades, Signs, and Traffic Handling (COSA Spec) (Work Site 03)	LS	1	
22	535.1	4 Inch Wide Yellow Line (COSA Spec)	LF	480	
23	535.2	4 Inch Wide White Line (COSA Spec)	LF	404	
24	535.7	24 Inch Wide White Line (COSA Spec)	LF	354	
25	535.13	Straight White Arrow (COSA Spec)	EA	1	
26	851	Adjusting Existing Manholes	EA	4	
27	852	Sanitary Sewer Manholes (0'-6' depth)	EA	5	
28	855	Reconstruction of Existing Manholes	EA	1	

29	864-S1	Bypass Pumping: Small Diameter Sanitary Sewers (Work Site 01)	LS	1		
30	864-S1	Bypass Pumping: Small Diameter Sanitary Sewers (Work Site 02)	LS	1		
31	864-S1	Bypass Pumping: Small Diameter Sanitary Sewers (Work Site 03)	LS	1		
32	866	Sewer Main Pre-Televising Inspection (8" through 15" Diameter)	LF	19,708		
33	866	Sewer Main Pre-Televising Inspection (18" through 21" Diameter)	LF	793		
34	866	Sewer Main Post-Televising Inspection (8" through 15" Diameter)	LF	19,708		
35	866	Sewer Main Post-Televising Inspection (18" through 21" Diameter)	LF	793		
36	900	Pipe Bursting 8" Sanitary Sewer Pipe, 0'-10' deep	LF	12,823		
37	900	Pipe Bursting 8" Sanitary Sewer Pipe, 10'-15' deep	LF	302		
38	900	Pipe Bursting 8" Sanitary Sewer Pipe, >15' deep	LF	267		
39	900	Pipe Bursting 10" Sanitary Sewer Pipe, 0'-10' deep	LF	1,939		
40	900	Pipe Bursting 10" Sanitary Sewer Pipe, 10'-15' deep	LF	649		
41	900	Pipe Bursting 10" Sanitary Sewer Pipe, >15' deep	LF	398		
42	900	Pipe Bursting 12" Sanitary Sewer Pipe, 0'-10' deep	LF	512		
43	900	Pipe Bursting 12" Sanitary Sewer Pipe, 10'-15' deep	LF	50		
44	900	Pipe Bursting 12" Sanitary Sewer Pipe, >15' deep	LF	50		
45	900	Pipe Bursting 15" Sanitary Sewer Pipe, 0'-10' deep	LF	100		
46	900	Pipe Bursting 15" Sanitary Sewer Pipe, 10'-15' deep	LF	200		
47	900	Pipe Bursting 15" Sanitary Sewer Pipe, >15' deep	LF	100		
48	905	Conventional CIPP 8" Sanitary Sewer Pipe, all depths	LF	2,301		
49	905	Conventional CIPP 10" Sanitary Sewer Pipe, all depths	LF	50		
50	905	Conventional CIPP 12" Sanitary Sewer Pipe, all depths	LF	50		
51	905	Conventional CIPP 15" Sanitary Sewer Pipe, all depths	LF	50		
52	905	Conventional CIPP 18" Sanitary Sewer Pipe, all depths	LF	793		
53	910	Manhole Rehabilitation (Inc. New Ring, Cover & Encasement)	VF	771		
54	1103.1	Point repairs for 8" or 10" Diameter, (0'-10' depth) including up to 20 LF of piping	EA	63		
55	1103.1	Point repairs for 8" or 10" Diameter, (10'-15' depth) including up to 20 LF of piping	EA	2		

56	1103.1	Point repairs for 8" or 10" Diameter, (>15' depth) including up to 20 LF of piping	EA	1		
57	1103.1	Point repairs for 12" or 15" Diameter, (0'-10' depth) including up to 20 LF of piping	EA	4		
58	1103.1	Point repairs for 12" or 15" Diameter, (10'-15' depth) including up to 20 LF of piping	EA	1		
59	1103.1	Point repairs for 18" or 21" Diameter, (0'-10' depth) including up to 20 LF of piping	EA	1		
60	1103.2	Extra length point repair, 8" or 10" Diameter, all depths	LF	737		
61	1103.2	Extra length point repair, 12" or 15" Diameter, all depths	LF	80		
62	1103.2	Extra length point repair, 18" or 21" Diameter, all depths	LF	10		
63	1103.3	Obstruction Removal by Excavation, 8" or 10" Diameter, All Depths	EA	5		
64	1103.3	Obstruction Removal by Excavation, 12" or 15" Diameter, All Depths	EA	1		
65	1103.3	Obstruction Removal by Excavation, 18" or 21" Diameter, All Depths	EA	1		
66	1109	Service Reconnection, (w/ open cut excavation, 0'-10' depth, including up to 10 LF of lateral)	EA	295		
67	1109	Service Reconnection, (w/ open cut excavation, 10'-15' depth, including up to 10 LF of lateral)	EA	7		
68	1109	Service Reconnection, all depths (w/ remote control cut device)	EA	56		

General Section

- All materials and construction procedures within the scope of this contract shall be approved by the San Antonio Water System (SAWS) and comply with the Plans, Specifications, General Conditions and with the following as applicable:
 - Current Texas Commission on Environmental Quality (TCEQ) "Design Criteria for Domestic Wastewater System" Texas Administrative Code (TAC) Title 30 Part 1 Chapter 217 and "Public Drinking Water", TAC Title 30 Part 1 Chapter 290.
 - Current TxDOT "Standard Specifications for Construction of Highways, Streets and Drainage."
 - Current "San Antonio Water System Standard Specifications for Water and Sanitary Sewer Construction."
 - Current City of San Antonio "Standard Specifications for Public Works Construction."
 - Current City of San Antonio "Utility Excavation Criteria Manual" (UECM).
- The Contractor shall obtain SAWS Standard Details from SAWS website, http://www.saws.org/business_center/specs. Unless otherwise noted within design plans.
- The Contractor is to notify and make arrangements with the SAWS Construction Inspection Division at 233-3500, and provide notification procedures the contractor will use to notify affected home residents and/or property owners 72 hours prior to excavation. Contractor is to follow the COSA requirement for impacted collector or arterial streets, which requires the contractor to provide a seven (7) day notification by electronic message board before work is to occur and a three (3) day notification be made by door hanger to impacted residents or businesses.
- Locations and depths of existing utilities and service laterals shown on the plans are understood to be approximate. Actual locations and depths must be field verified by the Contractor at least 1 week prior to construction. It shall be the Contractor's responsibility to locate utility service lines as required for construction and to protect them during construction at no cost to SAWS.
- The Contractor shall verify the exact location of underground utilities and drainage structures at least 1-2 weeks prior to construction whether shown on plans or not. Please allow up to 7 business days for locating request pipe location markers on SAWS facilities. The following contact information are supplied for verification purposes:

San Antonio Water System:
SAWS Utility Locates: <http://www.saws.org/Service/Locates>

COSA Drainage 207-8048
COSA Traffic Signal Operations 207-7720
Texas State Wide One Call Locator 1-800-545-6005 or 811
- The Contractor shall be responsible for restoring existing fences, curbs, streets, driveways, sidewalks, landscaping and structures to its original or better condition as a result of damages done by the project's construction.
- All work in Texas Highway Department and Bexar County right-of-way shall be done in accordance with respective construction specifications and permit.
- The Contractor shall comply with City of San Antonio or other governing Municipality's tree ordinances when excavating near trees.
- The Contractor shall not place any waste materials in the 100-year Flood Plain without first obtaining an approved Flood Plain Permit.
- Any work completed without prior written authorization which is not included in these plans and specifications will not be compensated by the San Antonio Water System.
- Holiday Work: Contractors will not be allowed to perform SAWS work on SAWS recognized holidays. Request should be sent to constworkreq@saws.org.
- Weekend Work: Contractors are required to notify the SAWS Inspection Construction department 48 hours in advance to request weekend work. Request should be sent to constworkreq@saws.org.
- Any and all SAWS utility work installed without holiday/weekend approval will be subject to be uncovered for proper inspection.
- PRE CON SITE VIDEO: Before the start of any construction, The site must be video recorded by the contractor with one copy submitted to SAWS Inspections. A pre-site video will provide accurate documentation of the existing conditions. (NSPI)
- POWER POLE BRACING: Contractors should be advised that there are existing overhead utility poles along the project corridor. Contractors should further be advised that if the distance from the outside face of a utility trench to the face of a utility pole is less than 5 feet, said utility pole is subject to bracing, based on a determination made by utility pole owner. Costs incurred by contractor for bracing of these utility poles is subsidiary to that respective utility company's work. It is advisable for the contractor to review the construction documents, and visit the construction site to determine potential impacts.
- The Contractor is responsible for ensuring that no sanitary sewer overflow (SSO) occurs as a result of their work. All contractor personnel responsible for SSO prevention and control shall be trained on proper response. Should an SSO occur, the contractor shall:
 - Identify the source of the SSO and notify SAWS Emergency Operations Center (EOC) immediately at (210)233-2015. Provide the address of the spill and an estimated volume or flow.
 - Attempt to eliminate the source of the SSO.
 - Contain sewage from the SSO to the extent of preventing a possible contamination of waterways.
 - Clean up spill site (return contained sewage to the collection system if possible) and properly dispose of contaminated soil/materials.
 - Clean the affected sewer mains and remove any debris.
 - Meet all post-SSO requirements as per the EPA Consent Decree, including line cleaning and televising the affected sewer mains (at SAWS direction) within 24 hours.

Should the Contractor fail to address an SSO immediately and to SAWS satisfaction, they will be responsible for all costs incurred by SAWS, including any fines from EPA.

No separate measurement or payment shall be made for this work. All work shall be done according to guidelines set by the TCEQ and SAWS.
- The Contractor shall provide bypass pumping of sewage around each segment of pipe to be replaced, in accordance with SAWS Special Specification Item No. 864-S1, "Bypass Pumping Small Diameter Sanitary Sewers". Payment for such work will be made under the bid item "Sanitary Sewer (Bypass Pumping) (Lump Sum) as per SAWS Special Specification Item No. 864-S1, "Bypass Pumping Small Diameter Sanitary Sewers".
- Prior to tie-ins, any shutdowns of existing force mains of any size must be coordinated with the SAWS Construction Inspection Division at 233-3500 and/or SAWS Production groups at least one week or more in advance of the shutdown. The Contractor must also provide a sequence of work as related to the tie-ins; this is at no additional cost to SAWS or the project and it is the responsibility of the Contractor to sequence the work accordingly.
- ELEVATIONS POSTED FOR TOP OF MANHOLES ARE FOR REFERENCE ONLY: It shall be the responsibility of the Contractor to make allowances and adjustments for top of manholes to match the finished grade of the project's improvements. (NSPI).
- The Contractor shall notify Juan C. Ramirez at (210) 233-3558 and SAWS E.O.C. at (210) 233-2015 a minimum of 72 hours, not counting weekends or SAWS holidays, before working on the pipe or manhole, in order to have SAWS remove the Smart Cover. Any damage done to the Smart Cover will be charged to the Contractor through a change order.
- Any quantity referencing to Item NO.905 on the plans should be Item NO.901.
- Contractor is to follow all COSA requirements for project signage and visible identification when working within COSA ROW.



GENERAL NOTES FOR PIPE BURSTING INSTALLATION:

- THE CONTRACTOR SHALL PIPE BURST IN SECTIONS OF THE SEWER MAINS THAT ARE IDENTIFIED ON THE ENGINEERING PLANS FOR REHABILITATION IN ACCORDANCE WITH THE CONSTRUCTION PHASING AND TRAFFIC CONTROL PLANS DEVELOPED FOR THE PROJECT.
- BYPASS PUMPING SHALL BE PER ITEM SS864-SI.
- CONTRACTOR SHALL PROVIDE ANY ADDITIONAL LOCAL BY-PASS PUMPING AS REQUIRED TO COMPLETE PIPE BURSTING WORK. NO SEPARATE PAYMENT WILL BE MADE FOR ADDITIONAL LOCAL BY-PASS PUMPING.
- THE CONTRACTOR IS ADVISED TO TAKE APPROPRIATE CAUTIONARY STEPS DURING ALL CLEANING, VIDEO INSPECTION, PIPE BURSTING, AND SEWER LINE POINT REPAIR.
- AFTER CLEANING SECTIONS OF SEWER MAIN ACCORDING TO SPECIFICATION NO. 868, THE CONTRACTOR SHALL TELEWISE AND VIDEOTAPE ALL SECTIONS OF SEWER MAIN DESIGNATED FOR REHABILITATION TO IDENTIFY LOCATION OF SERVICE CONNECTIONS, PIPE CONDITION AND LOCATIONS REQUIRING POINT REPAIRS. PIPE LENGTHS AND MANHOLE LOCATIONS ARE APPROXIMATE.
- AFTER PIPE BURST INSTALLATION IS COMPLETED. THE CONTRACTOR SHALL TELEWISE AND VIDEOTAPE THE REHABILITATED SEWER MAINS IN ACCORDANCE WITH SPECIFICATION NO. 866 TO DOCUMENT SATISFACTORY COMPLETION OF WORK TO THE ENGINEER AND OWNER.
- REPLACE (OPEN CUT) PIPE AT LOCATIONS FOR POINT REPAIRS BETWEEN MANHOLES AS INDICATED AND CONNECT TO EXISTING SYSTEM.
- ALL SERVICE TAPS SHALL BE EPOXY COATED OR A "TOP HAT" SHALL BE UTILIZED.
- EPOXY COAT ALL EXISTING SANITARY SEWER MANHOLES PER ITEM 855.
- CONTRACTOR SHALL FILL ALL VOIDS FOUND DURING CONSTRUCTION, UNDER THE EXISTING SEWER PIPE WITH LOW STRENGTH FLOWABLE FILL TO PROVIDE SUPPORTS FOR PIPE BURSTING SYSTEM AND FOR PROPOSED PIPE. PAY ITEM 413-FLOWABLE FILL.
- ALL PIPE BURSTING OPERATION SHALL BE PERFORMED DURING THE DAY TIME HOURS FROM 7 A.M. TO 6 P.M.
- CONTROL NOISE LEVEL DURING NIGHT HOURS IN ACCORDANCE WITH CITY OF SAN ANTONIO NOISE ORDINANCES. CONSTRUCTION ACTIVITIES AND EQUIPMENT THAT PRODUCE NOISE LEVELS EXCEEDING 60 dBA BETWEEN THE HOURS OF 6 P.M. AND 7 A.M., MONDAY THROUGH SATURDAY AND ALL DAY SUNDAY, AS MEASURED AT THE NEAREST PROPERTY LINE OF AN ADJACENT RESIDENTIAL AREA SHALL BE SHIELDED BY AN ACOUSTICAL ENCLOSURE.
- CONTRACTOR SHALL CONTACT COSA REGARDING ANY SIDEWALK CLOSURES.
- IT IS THE CONTRACTOR'S RESPONSIBILITY AND EXPENSE TO COORDINATE AND ACQUIRE HIS OWN STAGING AREA, INCLUDING PARKING AREA, TO ACCOMMODATE CONSTRUCTION PERSONNEL VEHICLE PARKING.
- UNLESS OTHERWISE SHOWN ON THE PLANS, REFER TO SAWS WEB SITE FOR STANDARD SAWS CONSTRUCTION DETAILS.

GENERAL NOTES FOR CURED IN PLACE PIPE (CIPP) INSTALLATION:

- THE CONTRACTOR SHALL INSTALL CIPP IN SECTIONS OF THE SEWER MAINS THAT ARE IDENTIFIED ON THE ENGINEERING PLANS FOR REHABILITATION IN ACCORDANCE WITH THE CONSTRUCTION PHASING AND TRAFFIC CONTROL PLANS DEVELOPED FOR THE PROJECT.
- BYPASS PUMPING SHALL BE PER ITEM SS864-SI.
- CONTRACTOR SHALL PROVIDE ANY ADDITIONAL LOCAL BY-PASS PUMPING AS REQUIRED TO COMPLETE CIPP WORK. NO SEPARATE PAYMENT WILL BE MADE FOR ADDITIONAL LOCAL BY-PASS PUMPING.
- THE CONTRACTOR IS ADVISED TO TAKE APPROPRIATE CAUTIONARY STEPS DURING ALL CLEANING, VIDEO INSPECTION, CIPP INSTALLATION, AND SEWER LINE POINT REPAIR.
- AFTER CLEANING SECTIONS OF SEWER MAIN ACCORDING TO SPECIFICATION NO. 868, THE CONTRACTOR SHALL TELEWISE AND VIDEOTAPE ALL SECTIONS OF SEWER MAIN DESIGNATED FOR REHABILITATION TO IDENTIFY LOCATION OF SERVICE CONNECTIONS, PIPE CONDITION AND LOCATIONS REQUIRING POINT REPAIRS. PIPE LENGTHS AND MANHOLE LOCATIONS ARE APPROXIMATE.
- AFTER CIPP INSTALLATION IS COMPLETED. THE CONTRACTOR SHALL TELEWISE AND VIDEOTAPE THE REHABILITATED SEWER MAINS IN ACCORDANCE WITH SPECIFICATION NO. 866 TO DOCUMENT SATISFACTORY COMPLETION OF WORK TO THE ENGINEER AND OWNER.

SEWER LATERAL NOTE:

SEWER LATERAL PLACEMENTS WERE BASED ON PRE-TELEVISIONING INSPECTION AND SAWS BLOCK MAPS. THE CONTRACTOR IS RESPONSIBLE FOR THE VERIFICATION OF THE SEWER LATERAL LOCATIONS AND EXISTING UTILITIES, BEFORE CONSTRUCTION BEGINS.

AT&T NOTE:

THE EXISTENCE AND LOCATION OF UNDERGROUND CABLE INDICATED ON THE PLANS ARE TAKEN FROM THE BEST RECORDS AVAILABLE AND ARE NOT GUARANTEED TO BE ACCURATE. CONTRACTOR IS TO CONTACT THE TELEPHONE COMPANY LOCATOR 48 HOURS PRIOR TO EXCAVATION AT 1-800-828-5127. CONTRACTOR IS TO PROTECT AND SUPPORT TELEPHONE COMPANY PLANT DURING CONSTRUCTION.

CPS ENERGY NOTES:

- CALL THE TEXAS STATE WIDE ONE CALL LOCATOR NUMBER 1-800-344-8377, 48 HOURS BEFORE BEGINNING ANY EXCAVATION.
- DUE TO FEDERAL REGULATIONS TITLE 49, PART 192.181, CPS ENERGY MUST MAINTAIN ACCESS TO GAS VALVES AT ALL TIMES. THE CONTRACTOR MUST PROTECT AND WORK AROUND ANY GAS VALVES THAT ARE IN THE PROJECT AREA.
- THE CONTRACTOR WILL BE RESPONSIBLE FOR PROTECTING CPS ENERGY OVERHEAD AND UNDERGROUND ELECTRIC FACILITIES IF ADJACENT TO WORK AREAS.

ADDITIONAL NOTES:

- THE CONTRACTOR SHOULD CALL FOR LOCATES THROUGH THE "ONE CALL" UTILITY LOCATE SERVICE (1-800-344-8377) 48 HOURS PRIOR TO CONSTRUCTION/EXCAVATION WORK, CONTRACTORS HAVE THE RESPONSIBILITY TO PROTECT AND SUPPORT TELEPHONE COMPANY PLANT DURING CONSTRUCTION".
- FOR SAWS CONSTRUCTION DETAILS GO TO (WWW.SAWS.ORG).
- NSPI = NOT SEPARATE PAY ITEM.
- ALL TREE PROTECTION SHALL BE NSPI.
- THE CONTRACTOR SHALL CONFINE CONSTRUCTION OPERATIONS TO WITHIN THE EASEMENT LIMITS AND/OR THE RIGHT-OF-WAY.

SUMMARY OF QUANTITIES

103.1	Remove Concrete Curb (COSA Spec)	LF	28
103.3	Remove Concrete Sidewalks and Driveways (COSA Spec)	SF	616
103.4	Remove Miscellaneous Concrete (COSA Spec)	SF	258
205.3	Hot Mix Asphaltic Concrete Pavement, Type C (3" Compacted Depth) (COSA Spec)	SY	69
205.4	Hot Mix Asphaltic Concrete Pavement, Type D (2" Compacted Depth) (COSA Spec)	SY	824
206.1	Asphalt Treated Base (ATB) (10" Compacted Depth) (COSA Spec)	SY	264
206.1	Asphalt Treated Base (ATB) (12" Compacted Depth) (COSA Spec)	SY	63
208.1	Salvaging Hauling & Stockpiling Reclaimable Asphaltic Pavement(2" Depth) (COSA Spec)	SY	594
208.2	Salvaging Hauling & Stockpiling Reclaimable Asphaltic Pavement(3" Depth) (COSA Spec)	SY	50
413	Flowable Fill	CY	42
500.1	Concrete Curb (COSA Spec)	LF	28
502.1	Concrete Sidewalks (COSA Spec)	SY	43
503.1	Portland Cement Concrete Driveway (COSA Spec)	SY	28
503.2	Portland Cement Concrete Driveway - Commercial (COSA Spec)	SY	10
505.1	Concrete Riprap (5" Thick) (COSA Spec)	SY	29
515.1	Topsoil (COSA SPEC)	CY	407
516.1	Bermuda Sodding (COSA SPEC)	SY	439
516.2	St. Augustine Sodding (COSA SPEC)	SY	9,699
530.1	Barricades, Signs, and Traffic Handling (COSA Spec) (Work Site 01)	LS	1
530.1	Barricades, Signs, and Traffic Handling (COSA Spec) (Work Site 02)	LS	1
530.1	Barricades, Signs, and Traffic Handling (COSA Spec) (Work Site 03)	LS	1
535.1	4 Inch Wide Yellow Line (COSA Spec)	LF	480
535.2	4 Inch Wide White Line (COSA Spec)	LF	404
535.7	24 Inch Wide White Line (COSA Spec)	LF	354
535.13	Straight White Arrow (COSA Spec)	EA	1
851	Adjusting Existing Manholes	EA	4
852	Sanitary Sewer Manhole (0'-6" depth)	EA	5
855	Reconstruction of Existing Manhole	EA	1
864-S1	Bypass Pumping (All Sizes) (Work Site 01)	LS	1
864-S1	Bypass Pumping (All Sizes) (Work Site 02)	LS	1
864-S1	Bypass Pumping (All Sizes) (Work Site 03)	LS	1
866	Sewer Main Pre-Television Inspection (8" through 15" Diameter)	LF	19,708
866	Sewer Main Post-Television Inspection (18" through 21" Diameter)	LF	793
866	Sewer Main Post-Television Inspection (8" through 15" Diameter)	LF	19,708
866	Sewer Main Post-Television Inspection (18" through 21" Diameter)	LF	793
900	Pipe Bursting 8" Sanitary Sewer Pipe, 0'-10' deep	LF	12,823
900	Pipe Bursting 8" Sanitary Sewer Pipe, 10'-15' deep	LF	302
900	Pipe Bursting 8" Sanitary Sewer Pipe, >15' deep	LF	267
900	Pipe Bursting 10" Sanitary Sewer Pipe, 0'-10' deep	LF	1,939
900	Pipe Bursting 10" Sanitary Sewer Pipe, 10'-15' deep	LF	649
900	Pipe Bursting 10" Sanitary Sewer Pipe, >15' deep	LF	398
900	Pipe Bursting 12" Sanitary Sewer Pipe, 0'-10' deep	LF	512
900	Pipe Bursting 12" Sanitary Sewer Pipe, 10'-15' deep	LF	50
900	Pipe Bursting 12" Sanitary Sewer Pipe, >15' deep	LF	50
900	Pipe Bursting 15" Sanitary Sewer Pipe, 0'-10' deep	LF	100
900	Pipe Bursting 15" Sanitary Sewer Pipe, 10'-15' deep	LF	200
900	Pipe Bursting 15" Sanitary Sewer Pipe, >15' deep	LF	100
901	Conventional CIPP 8" Sanitary Sewer Pipe, all depths	LF	2,301
901	Conventional CIPP 10" Sanitary Sewer Pipe, all depths	LF	50
901	Conventional CIPP 12" Sanitary Sewer Pipe, all depths	LF	50
901	Conventional CIPP 15" Sanitary Sewer Pipe, all depths	LF	50
901	Conventional CIPP 18" Sanitary Sewer Pipe, all depths	LF	793
910	Manhole Rehabilitation (Inc. New Ring, Cover & Encasement)	VF	771
1103.1	Point repairs for 8" or 10" Diameter, (0'-10' depth) including up to 20 LF of piping	EA	63
1103.1	Point repairs for 8" or 10" Diameter, (10'-15' depth) including up to 20 LF of piping	EA	2
1103.1	Point repairs for 8" or 10" Diameter, (>15' depth) including up to 20 LF of piping	EA	1
1103.1	Point repairs for 12" or 15" Diameter, (0'-10' depth) including up to 20 LF of piping	EA	4
1103.1	Point repairs for 12" or 15" Diameter, (10'-15' depth) including up to 20 LF of piping	EA	1
1103.1	Point repairs for 18" or 21" Diameter, (0'-10' depth) including up to 20 LF of piping	EA	1
1103.2	Extra length point repair, 8" or 10" Diameter, all depths	LF	737
1103.2	Extra length point repair, 12" or 15" Diameter, all depths	LF	80
1103.2	Extra length point repair, 18" or 21" Diameter, all depths	LF	10
1103.3	Obstruction Removal by Excavation, 8" or 10" Diameter, All Depths	EA	5
1103.3	Obstruction Removal by Excavation, 12" or 15" Diameter, All Depths	EA	1
1103.3	Obstruction Removal by Excavation, 18" or 21" Diameter, All Depths	EA	1
1109	Service Reconnection, (w/ open cut excavation, 0'-10' depth, including up to 10 LF of lateral)	EA	295
1109	Service Reconnection, (w/ open cut excavation, 10'-15' depth, including up to 10 LF of lateral)	EA	7
1109	Service Reconnection, all depths (w/ remote control cut device)	EA	56



The seal appearing on this document was authorized by CARL BAIN P.E. 56996 ON 3/22/2017

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REV.	DATE	DESCRIPTION	BY
1	03-22-2017	ADDENDUM No.2	BMB
BAIN MEDINA BAIN, INC. ENGINEERS & SURVEYORS 7876 F-001712 7073 San Pedro, San Antonio, Texas, 78216 Phone: 210-494-7223 Fax: 210-490-5120 WWW.BMBL.COM			
EAST SEWERSHED PACKAGE 1			
GENERAL NOTES & SUMMARY OF QUANTITIES			
DEVELOPER:		BUDGET PROJ.	
CONT.			
SUBMITTED			
APPROVED			
MAP No.		SHEET	
SECT. No.		2	
DR. DC	CK. CC/CB	FINAL DESIGN	OF 118
		JOB No. 16-4515	

11:35:17 AM

3/22/2017

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WORK SITE 3

ITEM NO.	SEWER ITEM DESCRIPTION	UNIT	AREA G-4		AREA G-5													AREA G-8		AREA H-4		AREA H-5					WORKSITE TOTAL	
			SHT 80	TOTAL	SHT 83	SHT 84	SHT 87	SHT 88	SHT 89	SHT 90	SHT 91	SHT 92	SHT 93	SHT 94	SHT 96	SHT 98	SHT 99	TOTAL	SHT 102	TOTAL	SHT 104	TOTAL	SHT 107	SHT 108	SHT 109	SHT 110		TOTAL
103.4	Remove Miscellaneous Concrete (COSA Spec)	SF	0	0	0	0	0	0	60	0	0	55	0	0	0	80	0	0	195	0	0	0	0	0	0	0	0	195
205.4	Hot Mix Asphaltic Concrete Pavement, Type D (2" Compacted Depth) (COSA Spec)	SY	3	3	6	0	0	0	0	0	0	0	3	0	0	3	0	9	21	0	0	6	6	3	0	0	6	9
206.1	Asphalt Treated Base (ATB) (10" Compacted Depth) (COSA Spec)	SY	3	3	6	0	0	0	0	0	0	0	3	0	0	3	0	9	21	0	0	6	6	3	0	0	6	9
505.1	Concrete Riprap (5" Thick) (COSA Spec)	SY	0	0	0	0	0	7	0	0	6	0	0	0	0	9	0	0	22	0	0	0	0	0	0	0	0	
515.1	Topsoil (COSA SPEC)	CY	2	2	10	23	26	22	8	14	16	18	25	30	25	34	0	251	2	2	0	0	8	14	17	0	39	
516.2	St. Augustine Sodding (COSA SPEC)	SY	125	125	361	428	450	445	150	406	311	417	556	556	472	309	0	4861	222	222	0	0	450	356	360	0	1166	
852	Sanitary Sewer Manhole (0'-6' depth)	EA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	
866	Sewer Main Pre-Television Inspection (8" through 15" Diameter)	LF	325	325	500	377	400	400	130	275	308	400	500	487	432	556	444	5209	381	381	213	213	398	314	528	247	1487	
866	Sewer Main Post-Television Inspection (8" through 15" Diameter)	LF	325	325	500	377	400	400	130	275	308	400	500	487	432	556	444	5209	381	381	213	213	398	314	528	247	1487	
900	Pipe Bursting 8" Sanitary Sewer Pipe, 0'-10' deep	LF	0	0	500	377	400	400	130	275	308	400	500	487	432	556	444	5209	381	381	213	213	0	0	277	247	524	
900	Pipe Bursting 10" Sanitary Sewer Pipe, 0'-10' deep	LF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	251	0	251		
900	Pipe Bursting 10" Sanitary Sewer Pipe, 10'-15' deep	LF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	314	0	314		
900	Pipe Bursting 10" Sanitary Sewer Pipe, >15' deep	LF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	398	0	398		
901	Conventional CIPP 8" Sanitary Sewer Pipe, all depths	LF	325	325	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	325	
910	Manhole Rehabilitation (Inc. New Ring, Cover & Encasement)	VF	12	12	9	12	15	6	4	12	11	14	4	12	24	27	21	171	24	24	7	7	32	12	13	16	73	
1103.1	Point repairs for 8" or 10" Diameter, (0'-10' depth) including up to 20 LF of piping	EA	0	0	4	0	0	1	0	1	3	3	1	0	4	2	1	20	0	0	1	1	0	0	0	0	21	
1103.1	Point repairs for 8" or 10" Diameter, (10'-15' depth) including up to 20 LF of piping	EA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	
1103.2	Point repairs for 8" or 10" Diameter, (>15' depth) including up to 20 LF of piping	EA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	
1103.2	Extra length point repair, 8" or 10" Diameter, all depths	LF	0	0	5	0	0	0	0	0	70	20	0	20	0	0	115	0	0	0	0	20	25	0	0	45		
1109	Service Reconnection, (w/ open cut excavation, 0'-10' depth, including up to 10 LF of lateral)	EA	0	0	12	12	12	11	4	8	0	11	15	16	6	0	6	113	0	0	4	4	3	7	5	6	21	
1109	Service Reconnection, all depths (w/ remote control cut device)	EA	5	5	0	0	0	0	0	0	0	0	0	0	0	9	0	9	0	0	0	0	0	0	0	0	14	



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 P.E. 56996 ON
 3/22/2017

Carl Bain

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1	03-22-2017	ADDENDUM No.2	BMB

BAIN MEDINA BAIN, INC.
 ENGINEERS & SURVEYORS
 TBPB F-001712
 7073 San Pedro, San Antonio, Texas, 78216
 Phone: 210-494-7223 Fax: 210-490-5120 WWW.BMBL.COM

EAST SEWERSHED PACKAGE 1
TABLE OF QUANTITIES

DEVELOPER: _____
 CONT. BUDGET PROJ.
 SUBMITTED _____
 APPROVED _____
 MAP No. _____
 SECT. No. _____
 DR. DC CK. CC/CB JOB No. **16-4515**

SHEET 6 OF 118

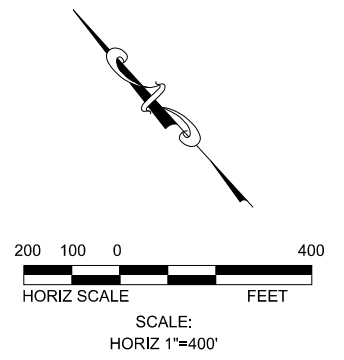
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#3645 AM

3/22/2017

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- TRAFFIC CONTROL PLAN NOTES:**
1. ALL TRAFFIC CONTROL SHALL CONFORM TO THE LATEST VERSION OF THE CITY OF SAN ANTONIO STANDARD DETAILS TRAFFIC CONTROL STANDARDS AND THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (TMUTCD), PART VI. FIELD MODIFICATIONS MAY BE MADE TO ADDRESS LOCAL CONDITIONS WITH THE APPROVAL OF THE ENGINEER.
 2. WHEN TRAFFIC CONTROL PLAN IS NOT IN EFFECT, REMOVE ALL DEVICES FROM THE TRAVELED LANES AND COVER OR REMOVE ALL WARNING SIGNS.
 3. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ACCESS TO ALL DRIVEWAYS DURING CONSTRUCTION PROVIDING A RIDING SURFACE FOR VEHICLES AND RESIDENTS TO ACCESS EACH PROPERTY. NO SEPARATE PAYMENT SHALL BE MADE FOR MAINTAINING ACCESS TO DRIVEWAYS. ALL DRIVEWAY ACCESS COSTS SHALL BE INCLUDED IN THE VARIOUS ITEMS IN THE PROJECT.
 4. CONTRACTOR IS RESPONSIBLE FOR INSTALLATION, MAINTENANCE, AND REMOVAL OF TRAFFIC CONTROL DEVICES. TRAFFIC CONTROL DEVICES SHOULD BE INSPECTED DAILY AND REPAIRED OR REPLACED AS NECESSARY. AFTER REMOVAL, CONTRACTOR IS RESPONSIBLE FOR RESTORATION OF MODIFICATIONS TO ROADWAY AND SIDEWALK SURFACES, ROADWAY MARKINGS, AND SIGNAGE DUE TO TRAFFIC CONTROL DEVICES OR CONSTRUCTION ACTIVITY.
 5. POLICE OFFICER IS NOT ANTICIPATED PER TRAFFIC CONTROL PLAN. CONTRACTOR SHALL COORDINATE WITH COSA AND TXDOT IF REQUIRED AND/OR DEVIATING FROM PLANS.
 6. CONTRACTOR IS TO FOLLOW THE COSA REQUIREMENT FOR IMPACTED COLLECTOR OR ARTERIAL STREETS, WHICH REQUIRES THE CONTRACTOR TO PROVIDE A SEVEN (7) DAY NOTIFICATION BY ELECTRONIC MESSAGE BOARD BEFORE WORK IS TO OCCUR AND A THREE (3) DAY NOTIFICATION BE MADE BY DOOR HANGER TO IMPACTED RESIDENTS OR BUSINESSES.



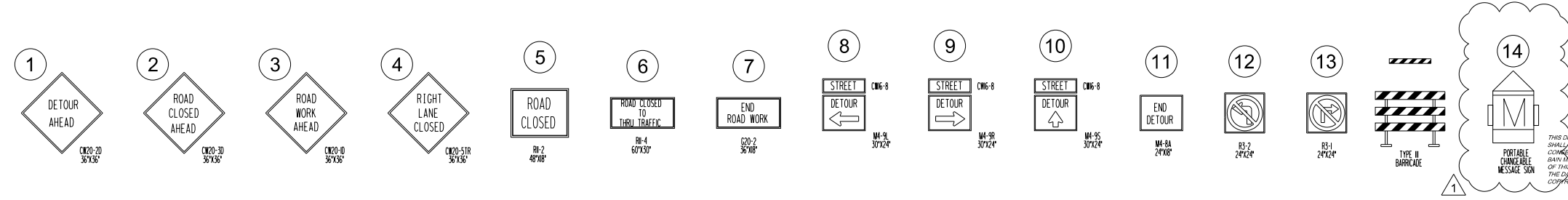
TCP LEGEND

- ROAD CENTERLINE
- SIGN
- TYPE III BARRICADE (8 FT)
- TYPE III BARRICADE (4 FT)
- CHANNELIZING DEVICE
- CONSTRUCTION AREA



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**TRAFFIC CONTROL PLAN
 SEGMENT 999339**



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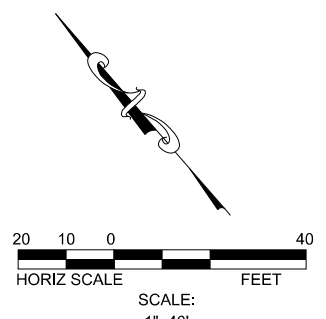
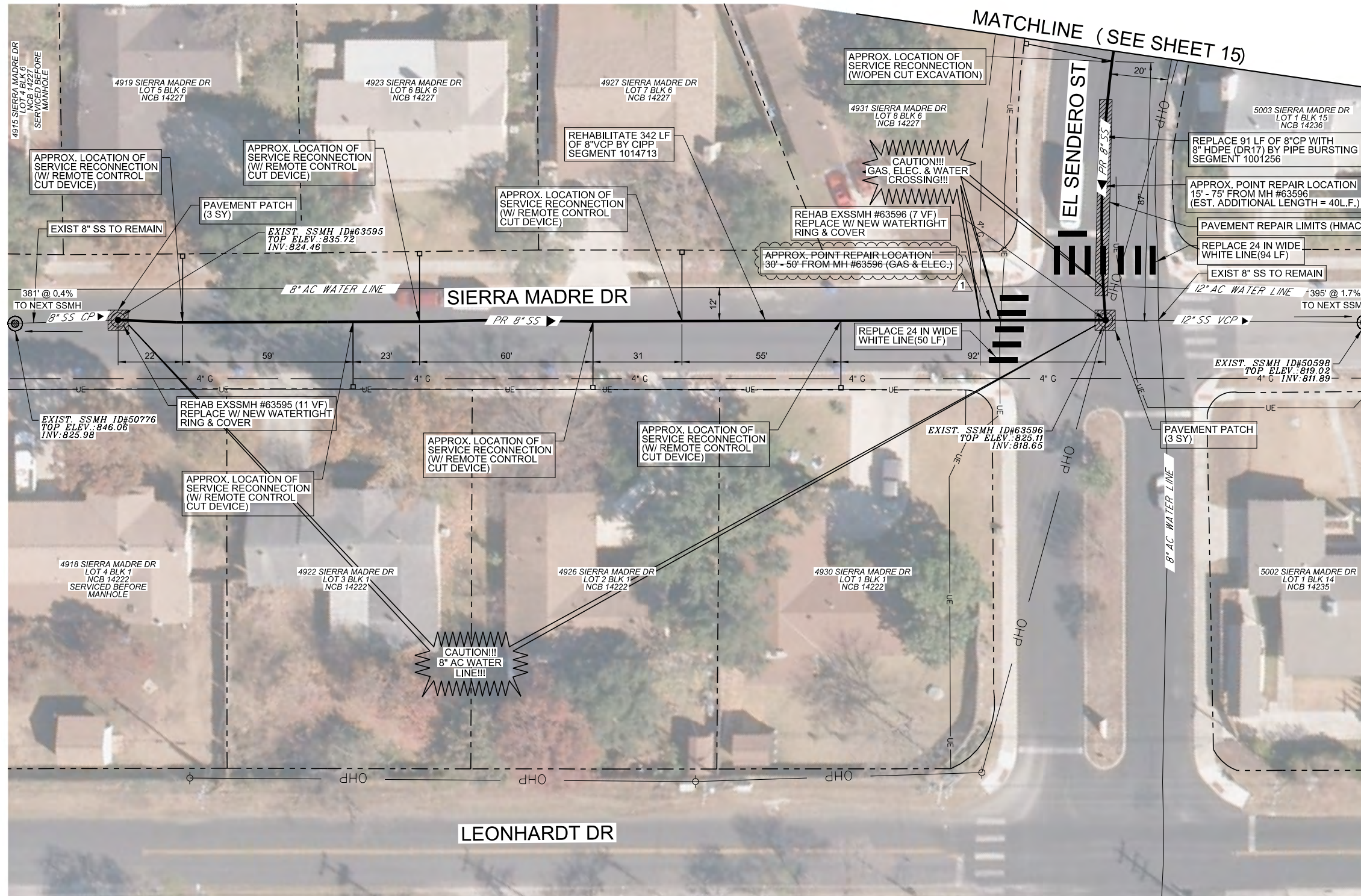
REV.	DATE	DESCRIPTION	BY
1	03-22-2017	ADDENDUM No.2	BMB

BAIN MEDINA BAIN, INC. ENGINEERS & SURVEYORS 7073 San Pedro, San Antonio, Texas, 78216 Phone: 210-494-7223 Fax: 210-490-5120 WWW.BMBL.COM	
EAST SEWERSHED PACKAGE 1 PLAN VIEW SEGMENT 999339 WORK SITE 01	
DEVELOPER:	BUDGET PROJ.
CONT.	
SUBMITTED	
APPROVED	
MAP No.	
SECT. No.	FINAL DESIGN
DR. DC	CK. CC/CB
JOB No.	16-4515
SHEET	12
OF	118

11:35:23 AM

3/22/2017

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ITEM NO.	SEWER ITEM DESCRIPTION	QUANTITY	UNIT
205.4	Hot Mix Asphaltic Concrete Pavement, Type D (2' Compacted Depth) (COSA Spec)	30	SY
206.1	Asphalt Treated Base (ATB) (10' Compacted Depth) (COSA Spec)	24	SY
535.7	24 Inch Wide White Line (COSA Spec)	144	LF
866	Sewer Main Pre-Television Inspection (8" through 15" Diameter)	433	LF
866	Sewer Main Post-Television Inspection (8" through 15" Diameter)	433	LF
900	Pipe Bursting 8" Sanitary Sewer Pipe, 0-10' deep	91	LF
901	Conventional CIPP 8" Sanitary Sewer Pipe, all depths	342	LF
910	Manhole Rehabilitation (Inc. New Ring, Cover & Encasement)	1	VF
1103.1	Point repairs for 8" or 10" Diameter, (0-10' depth) Including up to 20 LF of piping	1	EA
1103.2	Extra length point repair, 8" or 10" Diameter, all depths	40	LF
1109	Service Reconnection (w/ open cut excavation, 0-10' depth, including up to 10 LF of lateral)	1	EA
1109	Service Reconnection, all depths (w/ remote control cut device)	6	EA

PROJECT LEGEND

- EXISTING SEWER MANHOLE
- MANHOLE REHABILITATION
- PROPOSED SEWER MAIN
- EXISTING GAS
- EXISTING WATER
- EXISTING OH ELECTRIC
- EXISTING URD ELECTRIC
- EXISTING SEWER
- PROPOSED ASPHALT PATCH
- PROPERTY LINE
- EXISTING FENCE



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**PROP 8" CIPP & 8" PIPE BURST
 SEGMENT 1014713 - 342 L.F.
 SEGMENT 1001256 - 91 L.F.**

SEWER LATERAL NOTE:
 SEWER LATERAL PLACEMENTS WERE BASED ON PRE-TELEVISION INSPECTION AND SAWS BLOCK MAPS. THE CONTRACTOR IS RESPONSIBLE FOR THE VERIFICATION OF THE SEWER LATERAL LOCATIONS AND EXISTING UTILITIES, BEFORE CONSTRUCTION BEGINS.

NOTE:
 THE EXISTING UNDERGROUND UTILITIES SHOWN ON THESE PLANS ARE BASED UPON RECORD INFORMATION ONLY AND ARE APPROXIMATE. THE EXACT LOCATION OF ALL EXISTING UNDERGROUND UTILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR. THE CONTRACTOR SHALL ALSO CONTACT THE UTILITY PURVEYORS BEFORE BEGINNING WORK. CONTRACTOR SHALL TAKE FULL RESPONSIBILITY FOR ALL AND ANY DAMAGES THAT MIGHT OCCUR BY HIS FAILURE TO ACCURATELY LOCATE ALL EXISTING UNDERGROUND UTILITIES AND PRESERVE EXISTING CONDITIONS.

TRENCH EXCAVATION SAFETY PROTECTION
 CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/GEOTECHNICAL/SAFETY/ EQUIPMENT CONSULTANT, IF ANY SHALL REVIEW THESE PLANS AND AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITE(S) WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES. THE CONTRACTOR'S IMPLEMENTATION OF THE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLIES WITH AS A MINIMUM OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OF SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.

TEMPORARY FENCING NOTE:
 CONTRACTOR TO INSTALL TEMPORARY CHAIN LINK FENCE (6 FT HIGH) PER SAWS INSPECTOR DIRECTIONS. (NSPI)
 THERE WILL BE NO SEPERATE PAYMENT FOR TEMPORARY CHAIN LINK FENCE WITH ALL RELATED COSTS INCLUDED IN THE ITEM TO WHICH IT PERTAINS.

CONTRACTOR TO COORDINATE WITH SAWS INSPECTOR AND COSA TREE ARBORIST FOR TREE PROTECTION REQUIREMENTS

CONTRACTOR MUST NOTIFY SAWS INSPECTION AT 233-3500 48 HOURS BEFORE ANY OF THE FOLLOWING ACTIVITIES TAKE PLACE.

1. NOTIFICATION OF PRE-TELEVISION INSPECTION.
2. NOTIFICATION OF BYPASS PUMPING SETUP OPERATIONS.
3. NOTIFICATION OF THE PIPE INSTALLATION.

NOTE: CONTRACTOR MUST FIELD VERIFY ALL DEPTHS, DISTANCES, PIPE, SIZES, AND GRADES BEFORE START OF CONSTRUCTION. (N.S.P.I.)

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 ENGINEERS & SURVEYORS
 7878 F-001712
 7073 San Pedro, San Antonio, Texas, 78216
 Phone: 210-494-7223 Fax: 210-490-5120 WWW.BMBI.COM

**EAST SEWERSHED PACKAGE 1
 PLAN VIEW - AREA B6
 SEGMENT 1014713 & 1001256
 WORK SITE 01**

DEVELOPER: _____
 CONT. BUDGET PROJ.
 SUBMITTED _____
 APPROVED _____

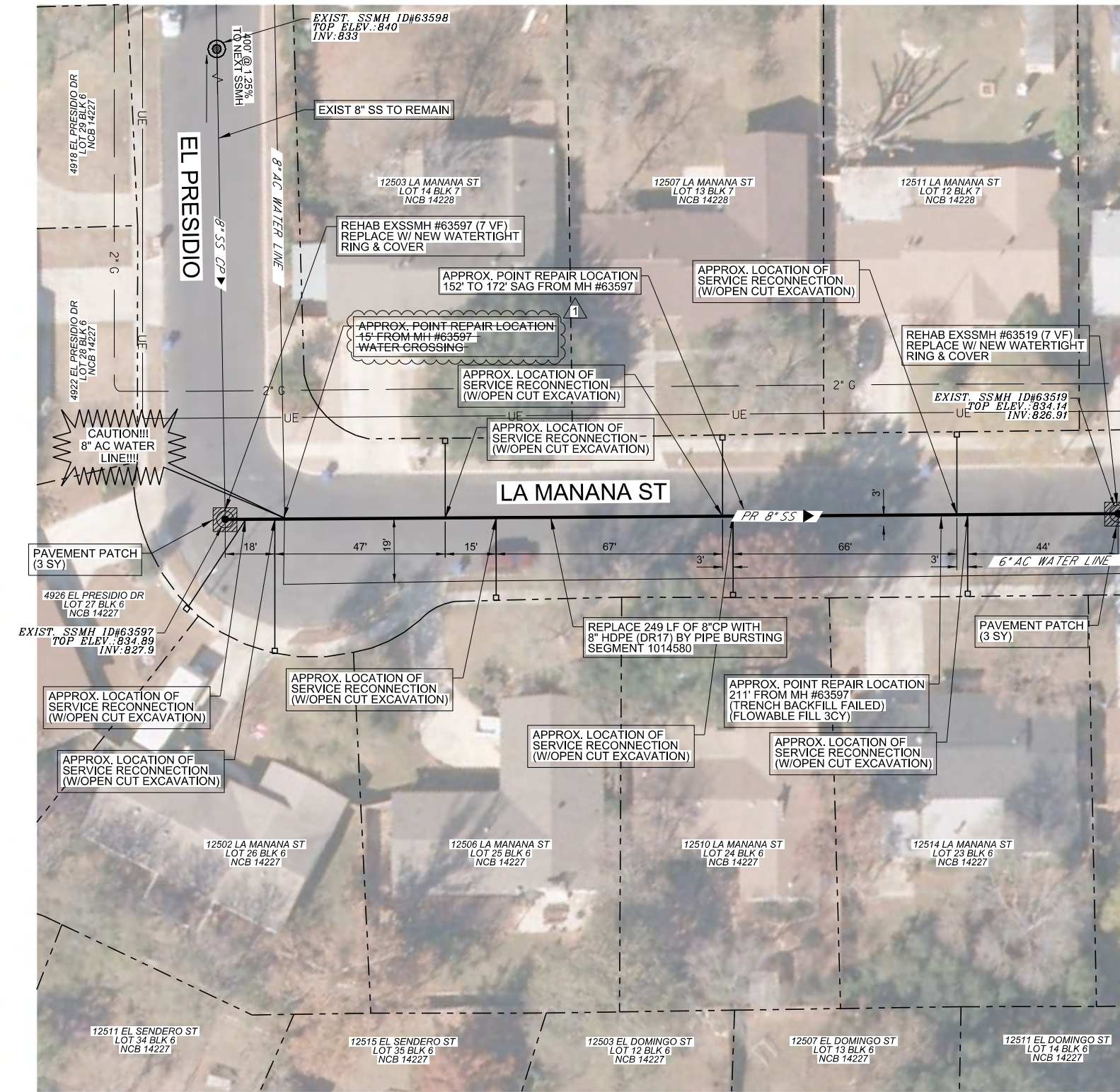
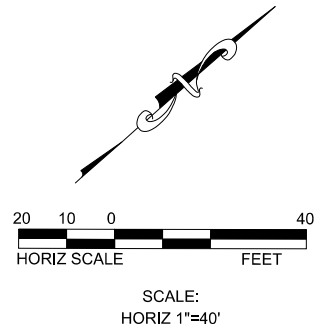
MAP No.	SECT. No.	DR. DC	CK.	CC/CB	JOB No.	FINAL DESIGN 16-4515	SHEET 14 OF 118
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3/22/2017

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ITEM NO.	SEWER ITEM DESCRIPTION	QUANTITY	UNIT
205.4	Hot Mix Asphalt: Concrete Pavement, Type D (2" Compacted Depth) (COSA Spec)	6	SY
206.1	Asphalt Treated Base (ATB) (10" Compacted Depth) (COSA Spec)	6	SY
413	Flowable Fill	3	CY
866	Sewer Main Pre-Television Inspection (8" through 15" Diameter)	249	LF
866	Sewer Main Post-Television Inspection (8" through 15" Diameter)	249	LF
900	Pipe Bursting 8" Sanitary Sewer Pipe, 0'-10' deep	249	LF
910	Manhole Rehabilitation (Inc. New Ring, Cover & Encasement)	4	VF
1103.1	Point repairs for 8" or 10" Diameter, (0'-10' depth) Including up to 20 LF of piping	2	EA
1109	Service Reconnection (w/ open cut excavation, 0'-10' depth, Including up to 10 LF of lateral)	8	EA



MATCHLINE (SEE SHEET 17)

PROJECT LEGEND

EXISTING SEWER MANHOLE	
MANHOLE REHABILITATION	
PROPOSED SEWER MAIN	
EXISTING GAS	
EXISTING WATER	
EXISTING OH ELECTRIC	
EXISTING URD ELECTRIC	
EXISTING SEWER	
PROPOSED ASPHALT PATCH	
PROPERTY LINE	
EXISTING FENCE	



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1	03-22-2017	ADDENDUM No.2	BMB

PROP 8" PIPE BURST SEGMENT 1014580 - 249 L.F.

SEWER LATERAL NOTE:
 SEWER LATERAL PLACEMENTS WERE BASED ON PRE-TELEVISION INSPECTION AND SAWS BLOCK MAPS. THE CONTRACTOR IS RESPONSIBLE FOR THE VERIFICATION OF THE SEWER LATERAL LOCATIONS AND EXISTING UTILITIES, BEFORE CONSTRUCTION BEGINS.

NOTE:
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TRENCH EXCAVATION SAFETY PROTECTION
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TEMPORARY FENCING NOTE:
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 THERE WILL BE NO SEPERATE PAYMENT FOR TEMPORARY CHAIN LINK FENCE WITH ALL RELATED COSTS INCLUDED IN THE ITEM TO WHICH IT PERTAINS.

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CONTRACTOR MUST NOTIFY SAWS INSPECTION AT 233-3500 48 HOURS BEFORE ANY OF THE FOLLOWING ACTIVITIES TAKE PLACE.

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3. NOTIFICATION OF THE PIPE INSTALLATION.

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EAST SEWERSHED PACKAGE 1 PLAN VIEW - AREA B6 SEGMENT 1014580 WORK SITE 01	
DEVELOPER:	
CONT. BUDGET PROJ.	
SUBMITTED	
APPROVED	
MAP No.	SHEET
SECT. No.	16
DR. DC	CK. CC/CB
FINAL DESIGN	
JOB No. 16-4515	
OF 118	

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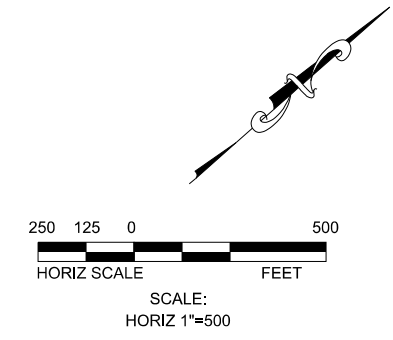
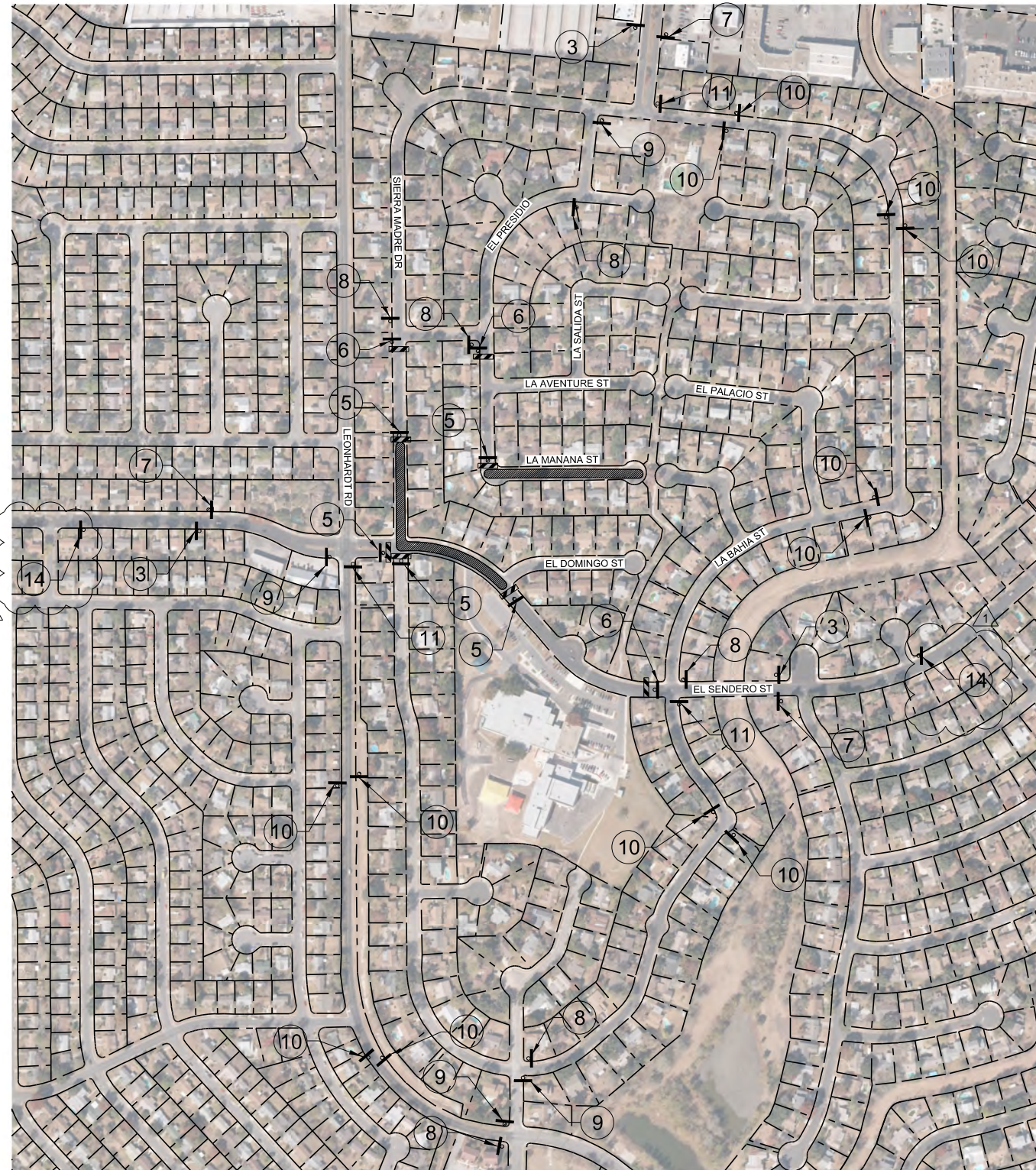
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- TRAFFIC CONTROL PLAN NOTES:**
1. ALL TRAFFIC CONTROL SHALL CONFORM TO THE LATEST VERSION OF THE CITY OF SAN ANTONIO STANDARD DETAILS TRAFFIC CONTROL STANDARDS AND THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (TMUTCD), PART VI. FIELD MODIFICATIONS MAY BE MADE TO ADDRESS LOCAL CONDITIONS WITH THE APPROVAL OF THE ENGINEER.
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 5. POLICE OFFICER IS NOT ANTICIPATED PER TRAFFIC CONTROL PLAN. CONTRACTOR SHALL COORDINATE WITH COSA AND TXDOT IF REQUIRED AND/OR DEVIATING FROM PLANS.
 6. CONTRACTOR IS TO FOLLOW THE COSA REQUIREMENT FOR IMPACTED COLLECTOR OR ARTERIAL STREETS, WHICH REQUIRES THE CONTRACTOR TO PROVIDE A SEVEN (7) DAY NOTIFICATION BY ELECTRONIC MESSAGE BOARD BEFORE WORK IS TO OCCUR AND A THREE (3) DAY NOTIFICATION BE MADE BY DOOR HANGER TO IMPACTED RESIDENTS OR BUSINESSES.

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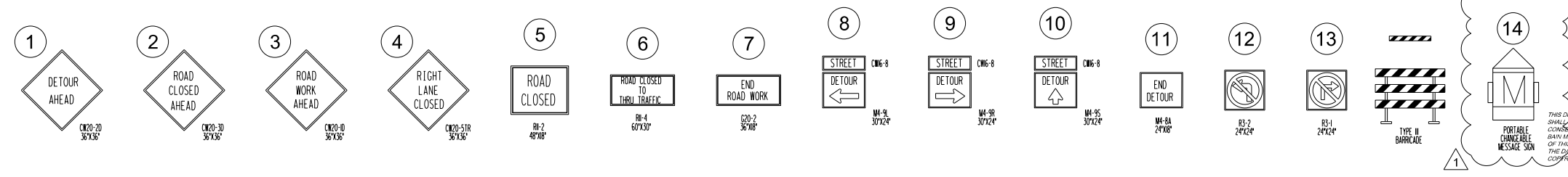
TCP LEGEND

ROAD CENTERLINE	---
SIGN	□
TYPE III BARRICADE (8 FT)	▨
TYPE III BARRICADE (4 FT)	▩
CHANNELIZING DEVICE	●
CONSTRUCTION AREA	▨



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TRAFFIC CONTROL PLAN
SEGMENT 1014580, 1014581,
1001256 & 1014713



REV.	DATE	DESCRIPTION	BY
1	03-22-2017	ADDENDUM No.2	BMB

BAIN MEDINA BAIN, INC. ENGINEERS & SURVEYORS 7875 R-001712 7073 San Pedro, San Antonio, Texas, 78216 Phone: 210-494-7223 Fax: 210-490-5120 WWW.BMBL.COM		EAST SEWERSHED PACKAGE 1 PLAN VIEW SEGMENT 1014580, 1014581, 1001256 & 1014713 WORK SITE 01	
		DEVELOPER: _____ CONT. _____ BUDGET PROJ. _____ SUBMITTED _____ APPROVED _____ MAP No. _____ SECT. No. _____ DR. DC _____ CK. _____ CC/CB _____	
FINAL DESIGN JOB No. 16-4515		SHEET 18 OF 118	

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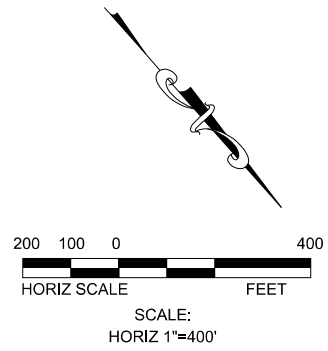
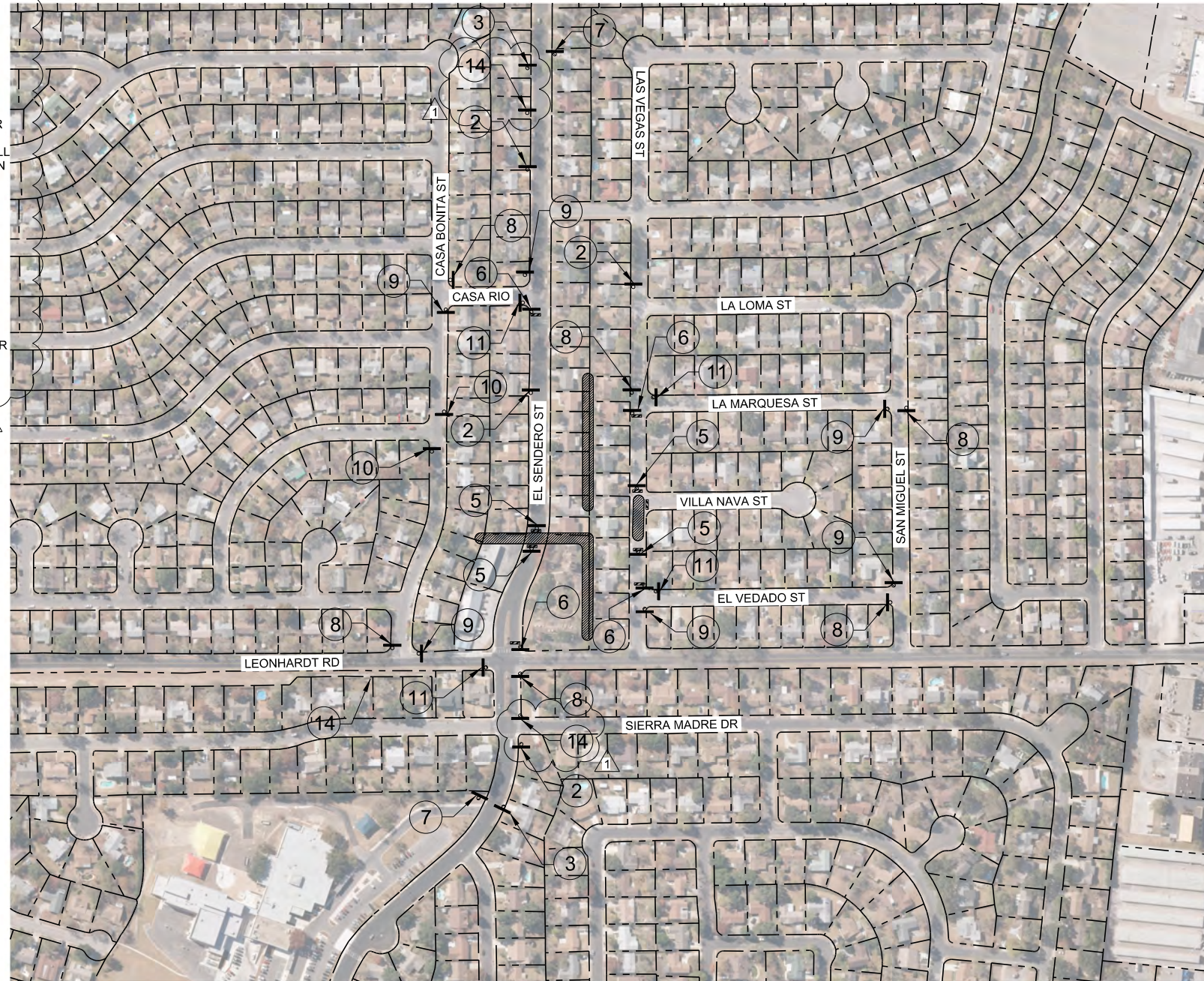
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3/22/2017

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TRAFFIC CONTROL PLAN NOTES:

1. ALL TRAFFIC CONTROL SHALL CONFORM TO THE LATEST VERSION OF THE CITY OF SAN ANTONIO STANDARD DETAILS TRAFFIC CONTROL STANDARDS AND THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (TMUTCD), PART VI. FIELD MODIFICATIONS MAY BE MADE TO ADDRESS LOCAL CONDITIONS WITH THE APPROVAL OF THE ENGINEER.
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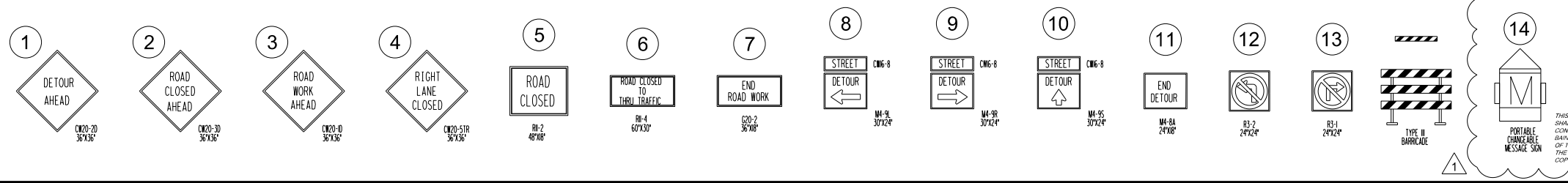
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- SIGN
- TYPE III BARRICADE (8 FT)
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- CHANNELIZING DEVICE
- CONSTRUCTION AREA



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TRAFFIC CONTROL PLAN
SEGMENT 1000973, 1002893,
1003639, 1003583, & 1002008



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1	03-22-2017	ADDENDUM No.2	BMB

BAIN MEDINA BAIN, INC.
 ENGINEERS & SURVEYORS
 7878 F-001712
 7073 San Pedro, San Antonio, Texas, 78216
 Phone: 210-494-7223 Fax: 210-490-5120 WWW.BMBL.COM

EAST SEWERSHED PACKAGE 1
PLAN VIEW
SEGMENT 1000973, 1002893,
1003639, 1003583, & 1002008
WORK SITE 01

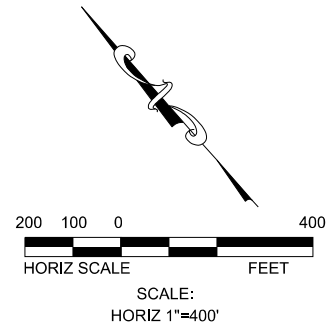
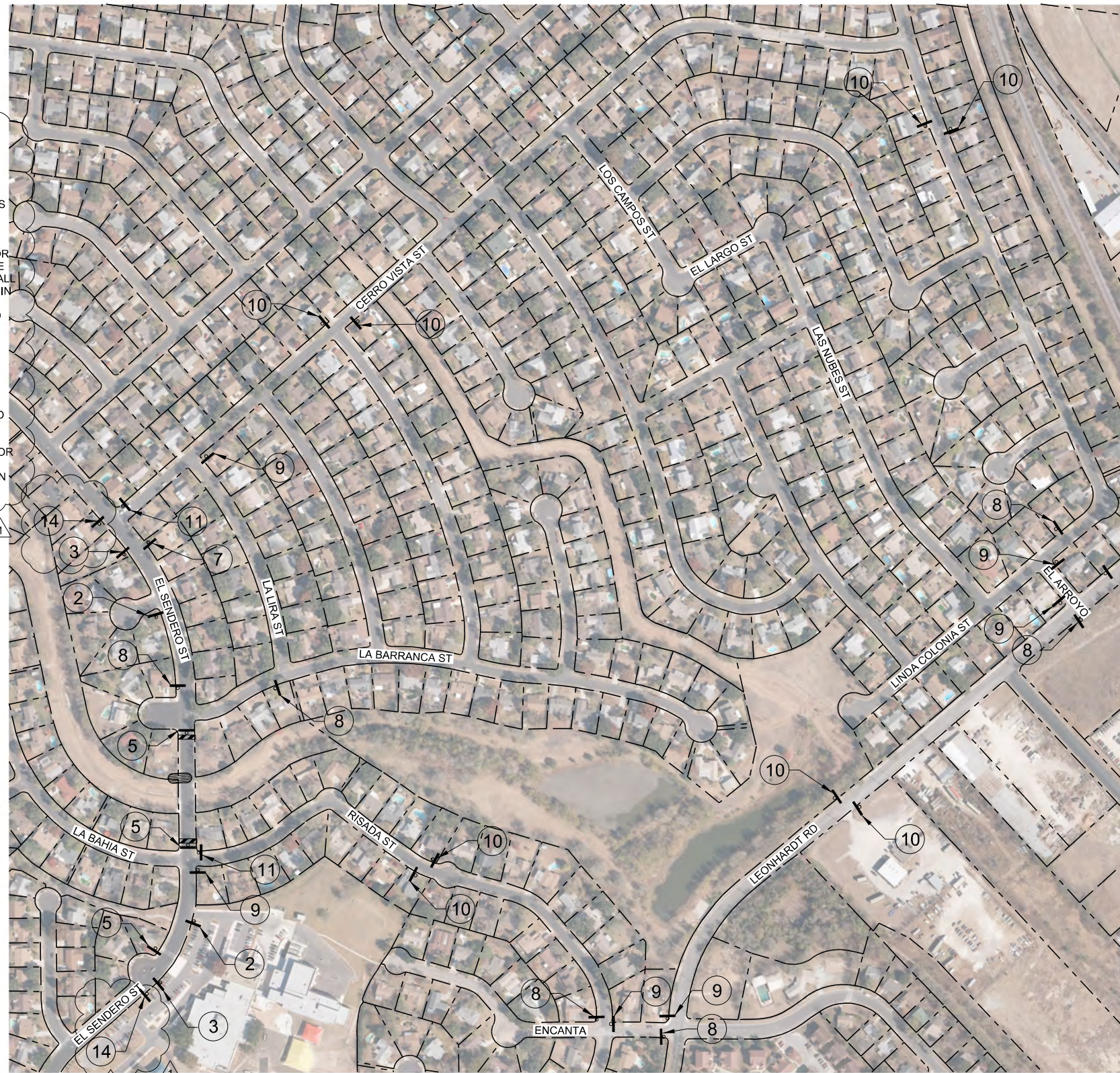
DEVELOPER:		BUDGET PROJ.	
SUBMITTED			
APPROVED			
MAP No.		FINAL DESIGN	SHEET 23
SECT. No.		JOB No. 16-4515	OF 118
DR. DC	CK. CC/CB		

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3/22/2017

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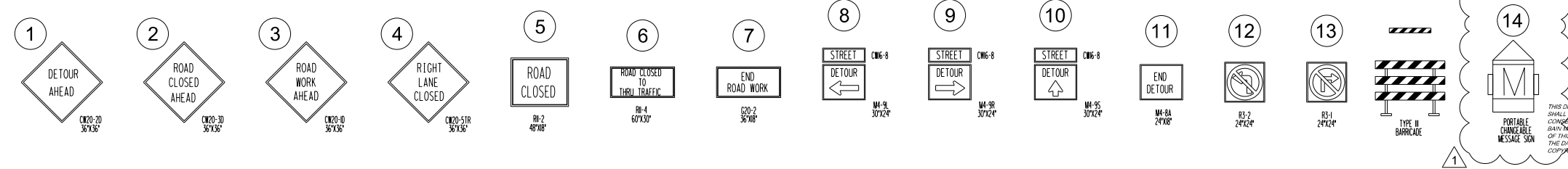
TCP LEGEND

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- SIGN
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- TYPE III BARRICADE (4 FT)
- CHANNELIZING DEVICE
- CONSTRUCTION AREA



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**TRAFFIC CONTROL PLAN
 SEGMENT 1012141**



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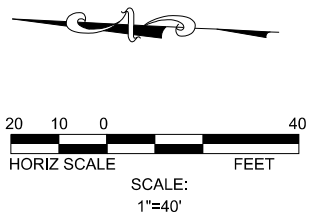
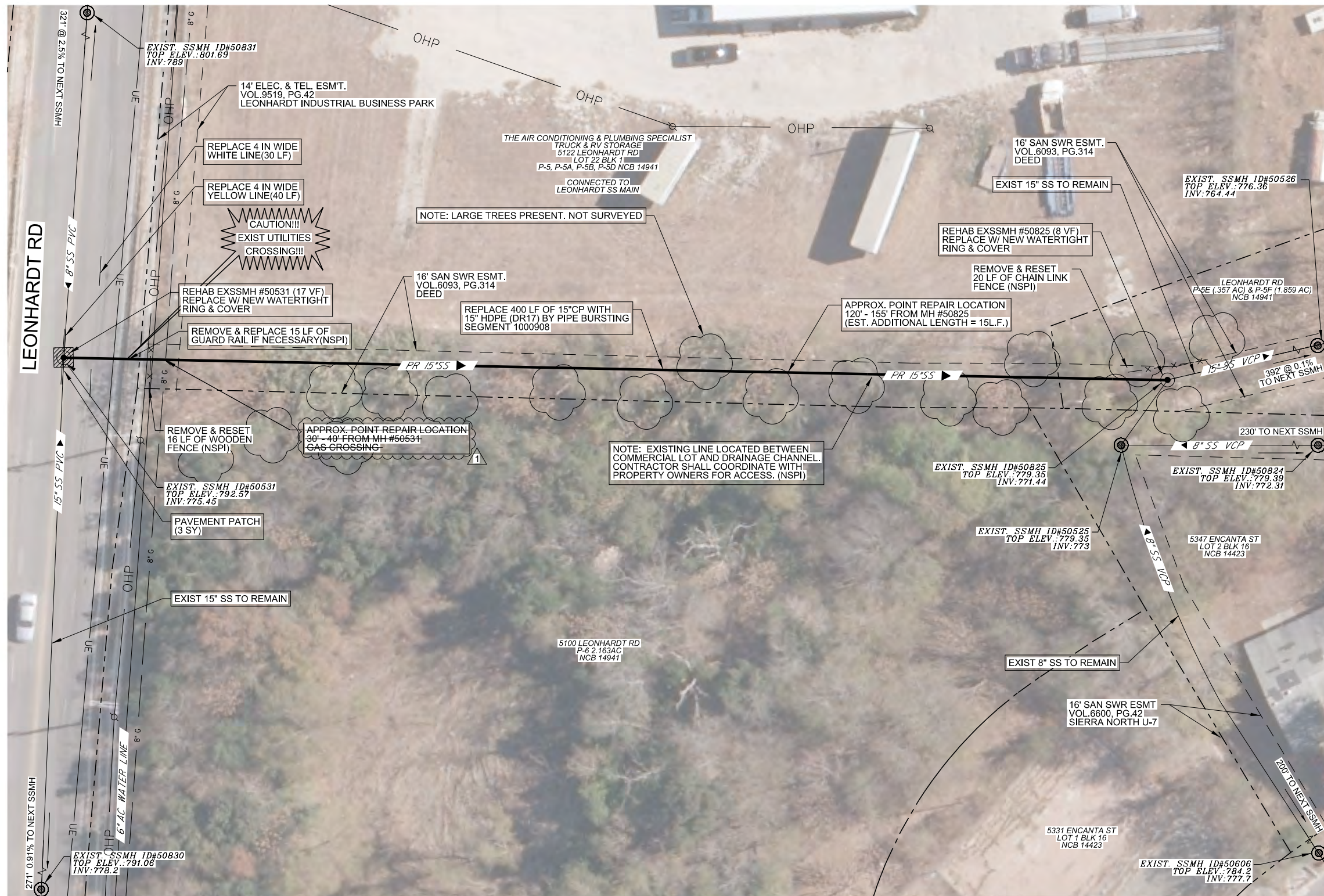
REV.	DATE	DESCRIPTION	BY
1	03-22-2017	ADDENDUM No.2	BMB

		BAIN MEDINA BAIN, INC. ENGINEERS & SURVEYORS 78PE F-001712 7073 San Pedro, San Antonio, Texas, 78216 Phone: 210-494-7223 Fax: 210-490-5120 WWW.BMBL.COM	
		EAST SEWERSHED PACKAGE 1 PLAN VIEW SEGMENT 1012141 WORK SITE 01	
DEVELOPER:		BUDGET PROJ.	
SUBMITTED			
APPROVED			
MAP No.	FINAL DESIGN		SHEET
SECT. No.	JOB No. 16-4515		25
DR. DC	CK.	CC/CB	OF 118

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3/22/2017

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ITEM NO.	SEWER ITEM DESCRIPTION	QUANTITY	UNIT
205.3	Hot Mix Asphaltic Concrete Pavement, Type C (3\"/>		

PROJECT LEGEND

- EXISTING SEWER MANHOLE
- MANHOLE REHABILITATION
- PROPOSED SEWER MAIN
- EXISTING GAS
- EXISTING WATER
- EXISTING OH ELECTRIC
- EXISTING URD ELECTRIC
- EXISTING SEWER
- PROPOSED ASPHALT PATCH
- PROPERTY LINE
- EXISTING FENCE



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REV.	DATE	DESCRIPTION	BY
1	03-22-2017	ADDENDUM No.2	BMB

PROP 15" PIPE BURST SEGMENT 1000908 - 400 L.F.

SEWER LATERAL NOTE:
SEWER LATERAL PLACEMENTS WERE BASED ON PRE-TELEVISION INSPECTION AND SAWS BLOCK MAPS. THE CONTRACTOR IS RESPONSIBLE FOR THE VERIFICATION OF THE SEWER LATERAL LOCATIONS AND EXISTING UTILITIES, BEFORE CONSTRUCTION BEGINS.

NOTE:
THE EXISTING UNDERGROUND UTILITIES SHOWN ON THESE PLANS ARE BASED UPON RECORD INFORMATION ONLY AND ARE APPROXIMATE. THE EXACT LOCATION OF ALL EXISTING UNDERGROUND UTILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR. THE CONTRACTOR SHALL ALSO CONTACT THE UTILITY PURVEYORS BEFORE BEGINNING WORK. CONTRACTOR SHALL TAKE FULL RESPONSIBILITY FOR ALL AND ANY DAMAGES THAT MIGHT OCCUR BY HIS FAILURE TO ACCURATELY LOCATE ALL EXISTING UNDERGROUND UTILITIES AND PRESERVE EXISTING CONDITIONS.

TRENCH EXCAVATION SAFETY PROTECTION
CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/GEOTECHNICAL/SAFETY/ EQUIPMENT CONSULTANT, IF ANY SHALL REVIEW THESE PLANS AND AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITE(S) WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES. THE CONTRACTOR'S IMPLEMENTATION OF THE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLIES WITH AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS, SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OF SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.

TEMPORARY FENCING NOTE:
CONTRACTOR TO INSTALL TEMPORARY CHAIN LINK FENCE (6 FT HIGH) PER SAWS INSPECTOR DIRECTIONS. (NSPI)
THERE WILL BE NO SEPERATE PAYMENT FOR TEMPORARY CHAIN LINK FENCE WITH ALL RELATED COSTS INCLUDED IN THE ITEM TO WHICH IT PERTAINS.

CONTRACTOR TO COORDINATE WITH SAWS INSPECTOR AND COSA TREE ARBORIST FOR TREE PROTECTION REQUIREMENTS

CONTRACTOR MUST NOTIFY SAWS INSPECTION AT 233-3500 48 HOURS BEFORE ANY OF THE FOLLOWING ACTIVITIES TAKE PLACE.

1. NOTIFICATION OF PRE-TELEVISION INSPECTION.
2. NOTIFICATION OF BYPASS PUMPING SETUP OPERATIONS.
3. NOTIFICATION OF THE PIPE INSTALLATION.

NOTE: CONTRACTOR MUST FIELD VERIFY ALL DEPTHS, DISTANCES, PIPE, SIZES, AND GRADES BEFORE START OF CONSTRUCTION. (N.S.P.I.)

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7073 San Pedro, San Antonio, Texas, 78216
Phone: 210-494-7223 Fax: 210-490-5120 WWW.BMBI.COM

EAST SEWERSHED PACKAGE 1
PLAN VIEW - AREA C7
SEGMENT 1000908
WORK SITE 01

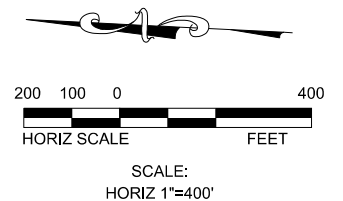
DEVELOPER: _____
CONT. _____ BUDGET PROJ. _____

SUBMITTED _____
APPROVED _____

MAP No. _____	FINAL DESIGN	SHEET
SECT. No. _____		33
DR. DC _____	JOB No. 16-4515	OF 118

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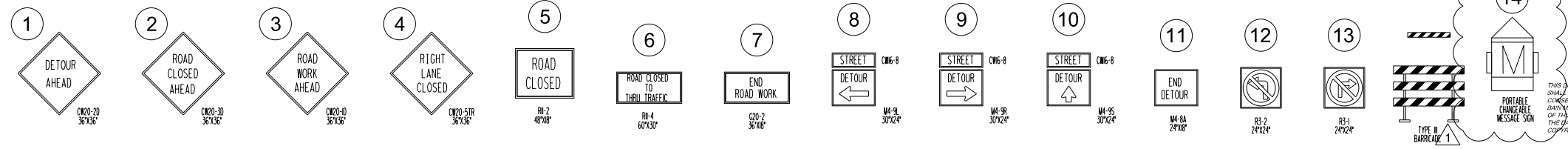
TCP LEGEND

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- SIGN
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- CHANNELIZING DEVICE
- CONSTRUCTION AREA



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**TRAFFIC CONTROL PLAN
 SEGMENT 1000908**



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EAST SEWERSHED PACKAGE 1 PLAN VIEW SEGMENT 1000908 WORK SITE 01	
DEVELOPER:	BUDGET PROJ.
SUBMITTED	
APPROVED	
MAP No.	
SECT. No.	FINAL DESIGN
DR. DC	CK. CC/CB
JOB No.	16-4515
SHEET	34
OF	118

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SCALE:
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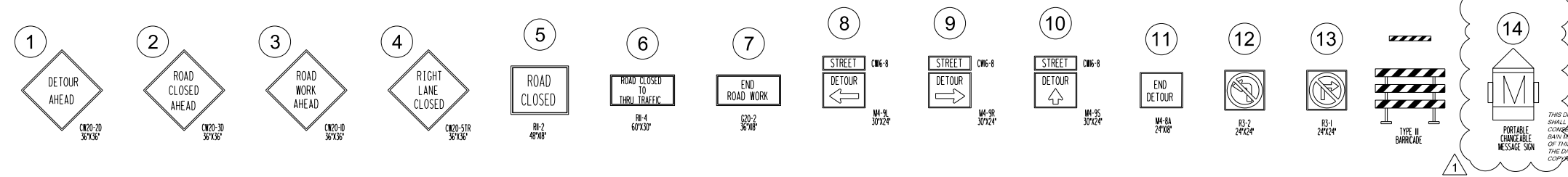
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- CHANNELIZING DEVICE
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**TRAFFIC CONTROL PLAN
SEGMENT 1043918**



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BAIN MEDINA BAIN, INC.
ENGINEERS & SURVEYORS
7875 San Pedro, San Antonio, Texas, 78216
Phone: 210-494-7223 Fax: 210-490-5120 WWW.BMB.COM

**EAST SEWER SHED PACKAGE 1
PLAN VIEW
SEGMENT 1043918
WORK SITE 01**

DEVELOPER: _____
CONT. BUDGET PROJ. _____

SUBMITTED _____
APPROVED _____

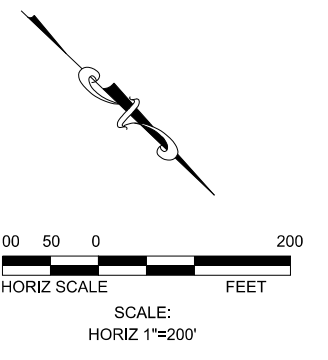
MAP No. _____
SECT. No. _____
DR. DC CK. CC/CB

FINAL DESIGN
JOB No. 16-4515

SHEET 36 OF 118

3/22/2017 7:45 AM

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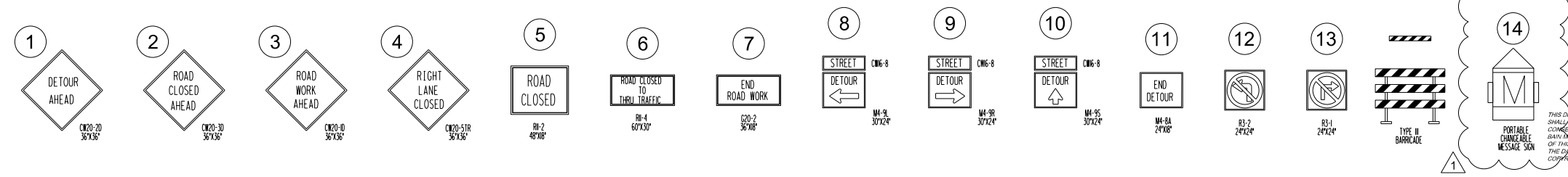
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- CHANNELIZING DEVICE
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**TRAFFIC CONTROL PLAN
 SEGMENT 1014760 & 1000802**



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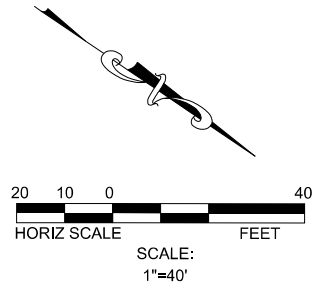
BAIN MEDINA BAIN, INC. ENGINEERS & SURVEYORS 787P R-001712 7073 San Pedro, San Antonio, Texas, 78216 Phone: 210-494-7223 Fax: 210-490-5120 WWW.BMBI.COM	
EAST SEWERSHED PACKAGE 1 PLAN VIEW SEGMENT 1014760 & 1000802 WORK SITE 02	
DEVELOPER:	BUDGET PROJ.
SUBMITTED	
APPROVED	
MAP No.	
SECT. No.	FINAL DESIGN
DR. DC	CK. CC/CB
JOB No.	16-4515
SHEET	44
OF	118

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3/22/2017

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ITEM NO.	SEWER ITEM DESCRIPTION	QUANTITY	UNIT
103.3	Remove Concrete Sidewalks and Driveways (COSA Spec)	240	SF
205.3	Hot Mix Asphaltic Concrete Pavement, Type C (3" Compacted Depth) (COSA Spec)	3	SY
205.4	Hot Mix Asphaltic Concrete Pavement, Type D (2" Compacted Depth) (COSA Spec)	3	SY
206.1	Asphalt Treated Base (ATB) (10" Compacted Depth) (COSA Spec)	3	SY
206.1	Asphalt Treated Base (ATB) (12" Compacted Depth) (COSA Spec)	3	SY
502.1	Concrete Sidewalks (COSA Spec)	28	SY
535.2	4 Inch Wide White Line(W/Reflectors) (COSA Spec)	94	LF
851	Adjusting Existing Manholes	2	EA
866	Sewer Main Pre-Television Inspection (8" through 15" Diameter)	538	LF
866	Sewer Main Post-Television Inspection (8" through 15" Diameter)	538	LF
900	Pipe Bursting 10" Sanitary Sewer Pipe, 0'-10' deep	253	LF
900	Pipe Bursting 12" Sanitary Sewer Pipe, 0'-10' deep	285	LF
910	Manhole Rehabilitation (Inc. New Ring, Cover & Encasement)	22	VF
1103.1	Point repairs for 8" or 10" Diameter, (0'-10' depth) including up to 20 LF of plating	1	EA
1103.1	Point repairs for 12" or 15" Diameter, (0'-10' depth) including up to 20 LF of plating	3	EA
1103.2	Extra length point repair, 12" or 15" Diameter, all depths	40	LF
1109	Service Reconnection (w/ open cut excavation, 0'-10' depth, including up to 10 LF of lateral)	3	EA

PROJECT LEGEND

- EXISTING SEWER MANHOLE
- MANHOLE REHABILITATION
- PROPOSED SEWER MAIN



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 P.E. 56996 ON
 3/22/2017
Carl Bain

PROP 10" & 12" PIPE BURST
SEGMENT 1002021 - 253 L.F.
SEGMENT 1001784 - 285 L.F.

SEWER LATERAL NOTE:
 SEWER LATERAL PLACEMENTS WERE BASED ON PRE-TELEVISION INSPECTION AND SAWS BLOCK MAPS. THE CONTRACTOR IS RESPONSIBLE FOR THE VERIFICATION OF THE SEWER LATERAL LOCATIONS AND EXISTING UTILITIES, BEFORE CONSTRUCTION BEGINS.

NOTE:
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TRENCH EXCAVATION SAFETY PROTECTION
 CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/GEOTECHNICAL/SAFETY/ EQUIPMENT CONSULTANT, IF ANY SHALL REVIEW THESE PLANS AND AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITE(S) WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES. THE CONTRACTOR'S IMPLEMENTATION OF THE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLIES WITH AS A MINIMUM OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTORS INDEPENDENTLY RETAINED EMPLOYEE OF SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.

TEMPORARY FENCING NOTE:
 CONTRACTOR TO INSTALL TEMPORARY CHAIN LINK FENCE (6 FT HIGH) PER SAWS INSPECTOR DIRECTIONS. (NSPI)
 THERE WILL BE NO SEPERATE PAYMENT FOR TEMPORARY CHAIN LINK FENCE WITH ALL RELATED COSTS INCLUDED IN THE ITEM TO WHICH IT PERTAINS.

CONTRACTOR TO COORDINATE WITH SAWS INSPECTOR AND COSA TREE ARBORIST FOR TREE PROTECTION REQUIREMENTS

CONTRACTOR MUST NOTIFY SAWS INSPECTION AT 233-3500 48 HOURS BEFORE ANY OF THE FOLLOWING ACTIVITIES TAKE PLACE.

1. NOTIFICATION OF PRE-TELEVISION INSPECTION.
2. NOTIFICATION OF BYPASS PUMPING SETUP OPERATIONS.
3. NOTIFICATION OF THE PIPE INSTALLATION.

NOTE: CONTRACTOR MUST FIELD VERIFY ALL DEPTHS, DISTANCES, PIPE, SIZES, AND GRADES BEFORE START OF CONSTRUCTION. (N.S.P.I.)

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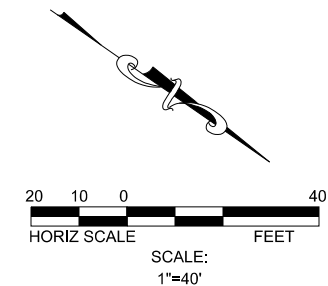
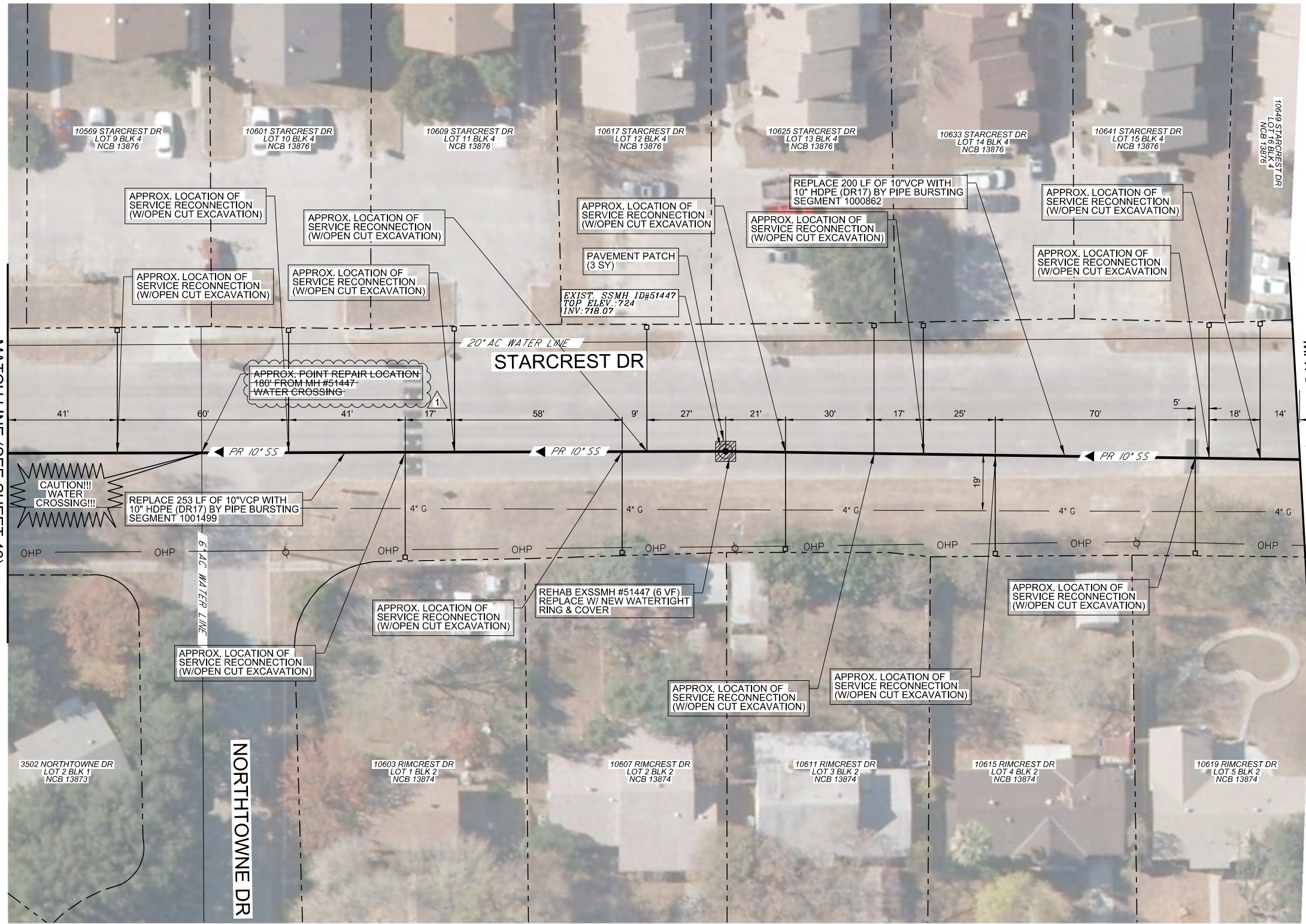
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1	03-22-2017	ADDENDUM No.2	BMB

	BAIN MEDINA BAIN, INC. ENGINEERS & SURVEYORS 78BP F-001712 7073 San Pedro, San Antonio, Texas, 78216 Phone: 210-494-7223 Fax: 210-490-5120 WWW.BMBI.COM
	EAST SEWERSHED PACKAGE 1 PLAN VIEW - AREA E3 SEGMENT 1002021 & 1001784 WORK SITE 02
DEVELOPER:	BUDGET PROJ.
CONT.	
SUBMITTED	
APPROVED	
MAP No.	
SECT. No.	FINAL DESIGN
DR. DC	CK. CC/CB
JOB No.	16-4515
SHEET	45
	OF 118

11:35:45 AM

3/22/2017

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ITEM NO.	SEWER ITEM DESCRIPTION	QUANTITY	UNIT
205.4	Hot Mix Asphaltic Concrete Pavement, Type D (2" Compacted Depth) (COSA Spec)	3	SY
206.1	Asphalt Treated Base (ATB) (10" Compacted Depth) (COSA Spec)	3	SY
866	Sewer Main Pre-Television Inspection (8" through 15" Diameter)	453	LF
866	Sewer Main Post-Television Inspection (8" through 15" Diameter)	453	LF
900	Pipe Bursting 10" Sanitary Sewer Pipe, 0'-10' deep	453	LF
910	Manhole Rehabilitation (Inc. New Ring, Cover & Encasement)	1	EA
1103.1	Point repairs for 8" or 10" Diameter, (0'-10' depth) including up to 20 LF of piping	1	EA
1109	Service Reconnection, (w/ open cut excavation, 0'-10' depth, including up to 10 LF of lateral)	13	EA

PROJECT LEGEND

- EXISTING SEWER MANHOLE
- MANHOLE REHABILITATION
- PROPOSED SEWER MAIN
- EXISTING GAS
- EXISTING WATER
- EXISTING OH ELECTRIC
- EXISTING URD ELECTRIC
- EXISTING SEWER
- PROPOSED ASPHALT PATCH
- PROPERTY LINE
- EXISTING FENCE



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 P.E. 56996 ON
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Carl Bain

REV.	DATE	DESCRIPTION	BY
1	03-22-2017	ADDENDUM No.2	BMB

**PROP 10" PIPE BURST
 SEGMENT 1001499 - 253 L.F.
 SEGMENT 1000862 - 200 L.F.**

SEWER LATERAL NOTE:
 SEWER LATERAL PLACEMENTS WERE BASED ON PRE-TELEVISION INSPECTION AND SAWS BLOCK MAPS. THE CONTRACTOR IS RESPONSIBLE FOR THE VERIFICATION OF THE SEWER LATERAL LOCATIONS AND EXISTING UTILITIES, BEFORE CONSTRUCTION BEGINS.

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TRENCH EXCAVATION SAFETY PROTECTION
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TEMPORARY FENCING NOTE:
 CONTRACTOR TO INSTALL TEMPORARY CHAIN LINK FENCE (6 FT HIGH) PER SAWS INSPECTOR DIRECTIONS. (NSPI)
 THERE WILL BE NO SEPERATE PAYMENT FOR TEMPORARY CHAIN LINK FENCE WITH ALL RELATED COSTS INCLUDED IN THE ITEM TO WHICH IT PERTAINS.

CONTRACTOR TO COORDINATE WITH SAWS INSPECTOR AND COSA TREE ARBORIST FOR TREE PROTECTION REQUIREMENTS

CONTRACTOR MUST NOTIFY SAWS INSPECTION AT 233-3500 48 HOURS BEFORE ANY OF THE FOLLOWING ACTIVITIES TAKE PLACE.

1. NOTIFICATION OF PRE-TELEVISION INSPECTION.
2. NOTIFICATION OF BYPASS PUMPING SETUP OPERATIONS.
3. NOTIFICATION OF THE PIPE INSTALLATION.

NOTE: CONTRACTOR MUST FIELD VERIFY ALL DEPTHS, DISTANCES, PIPE, SIZES, AND GRADES BEFORE START OF CONSTRUCTION. (N.S.P.I.)

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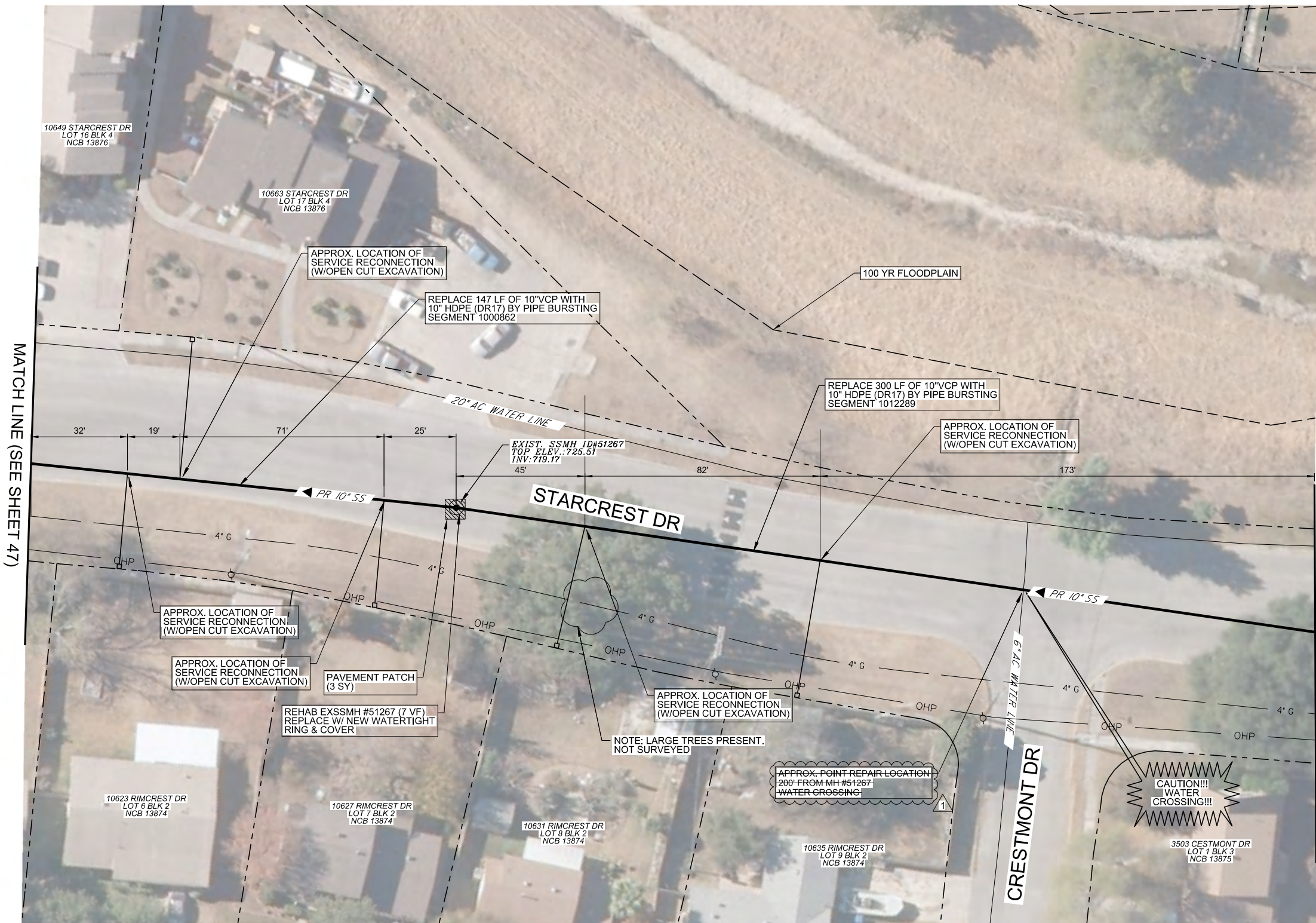
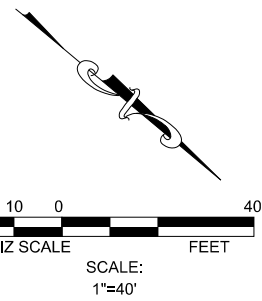
BAIN MEDINA BAIN, INC.
 ENGINEERS & SURVEYORS
 7878 F-001712
 7073 San Pedro, San Antonio, Texas, 78216
 Phone: 210-494-7223 Fax: 210-490-5120 WWW.BMBL.COM

**EAST SEWERSHED PACKAGE 1
 PLAN VIEW - AREA E3
 SEGMENT 1001499 & 1000862
 WORK SITE 02**

DEVELOPER: _____
 CONT. _____ BUDGET PROJ. _____

SUBMITTED _____
 APPROVED _____

MAP No. _____ SHEET 47
 SECT. No. _____ OF 118
 DR. DC _____ CK. CC/CB _____ JOB No. 16-4515



ITEM NO.	SEWER ITEM DESCRIPTION	QUANTITY	UNIT
205.4	Hot Mix Asphaltic Concrete Pavement, Type D (2" Compacted Depth) (COSA Spec)	3	SY
206.1	Asphalt Treated Base (ATB) (10" Compacted Depth) (COSA Spec)	3	SY
866	Sewer Main Pre-Television Inspection (8" through 15" Diameter)	447	LF
866	Sewer Main Post-Television Inspection (8" through 15" Diameter)	447	LF
900	Pipe Bursting 10" Sanitary Sewer Pipe, 0'-10' deep	447	LF
910	Manhole Rehabilitation (Inc. New Ring, Cover & Encasement)	1	EA
1103.1	Point repairs for 8" or 10" Diameter, (0'-10' depth) including up to 20 LF of piling	0	EA
1109	Service Reconnection, (w/ open cut excavation, 0'-10' depth, including up to 10 LF of lateral)	0	EA

PROJECT LEGEND

EXISTING SEWER MANHOLE	
MANHOLE REHABILITATION	
PROPOSED SEWER MAIN	
EXISTING GAS	
EXISTING WATER	
EXISTING OH ELECTRIC	
EXISTING URD ELECTRIC	
EXISTING SEWER	
PROPOSED ASPHALT PATCH	
PROPERTY LINE	
EXISTING FENCE	



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 CARL BAIN
 P.E. 56996 ON
 3/22/2017
Carl Bain

REV.	DATE	DESCRIPTION	BY
1	03-22-2017	ADDENDUM No.2	BMB

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 ENGINEERS & SURVEYORS
 78PE-R-001712
 7073 San Pedro, San Antonio, Texas, 78216
 Phone: 210-494-7223 Fax: 210-490-5120 WWW.BMBI.COM

EAST SEWERSHED PACKAGE 1
PLAN VIEW - AREA E3
SEGMENT 1000862 & 1012289
WORK SITE 02

DEVELOPER: _____
 CONT. BUDGET PROJ. _____

SUBMITTED _____
 APPROVED _____

MAP No. _____ SHEET 48
 SECT. No. _____ OF 118
 DR. DC CK. CC/CB JOB No. 16-4515

PROP 10" PIPE BURST
SEGMENT 1000862 - 147 L.F.
SEGMENT 1012289 - 300 L.F.

SEWER LATERAL NOTE:
 SEWER LATERAL PLACEMENTS WERE BASED ON PRE-TELEVISION INSPECTION AND SAWS BLOCK MAPS. THE CONTRACTOR IS RESPONSIBLE FOR THE VERIFICATION OF THE SEWER LATERAL LOCATIONS AND EXISTING UTILITIES, BEFORE CONSTRUCTION BEGINS.

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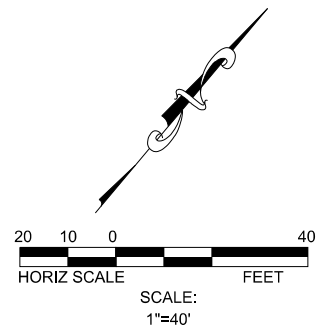
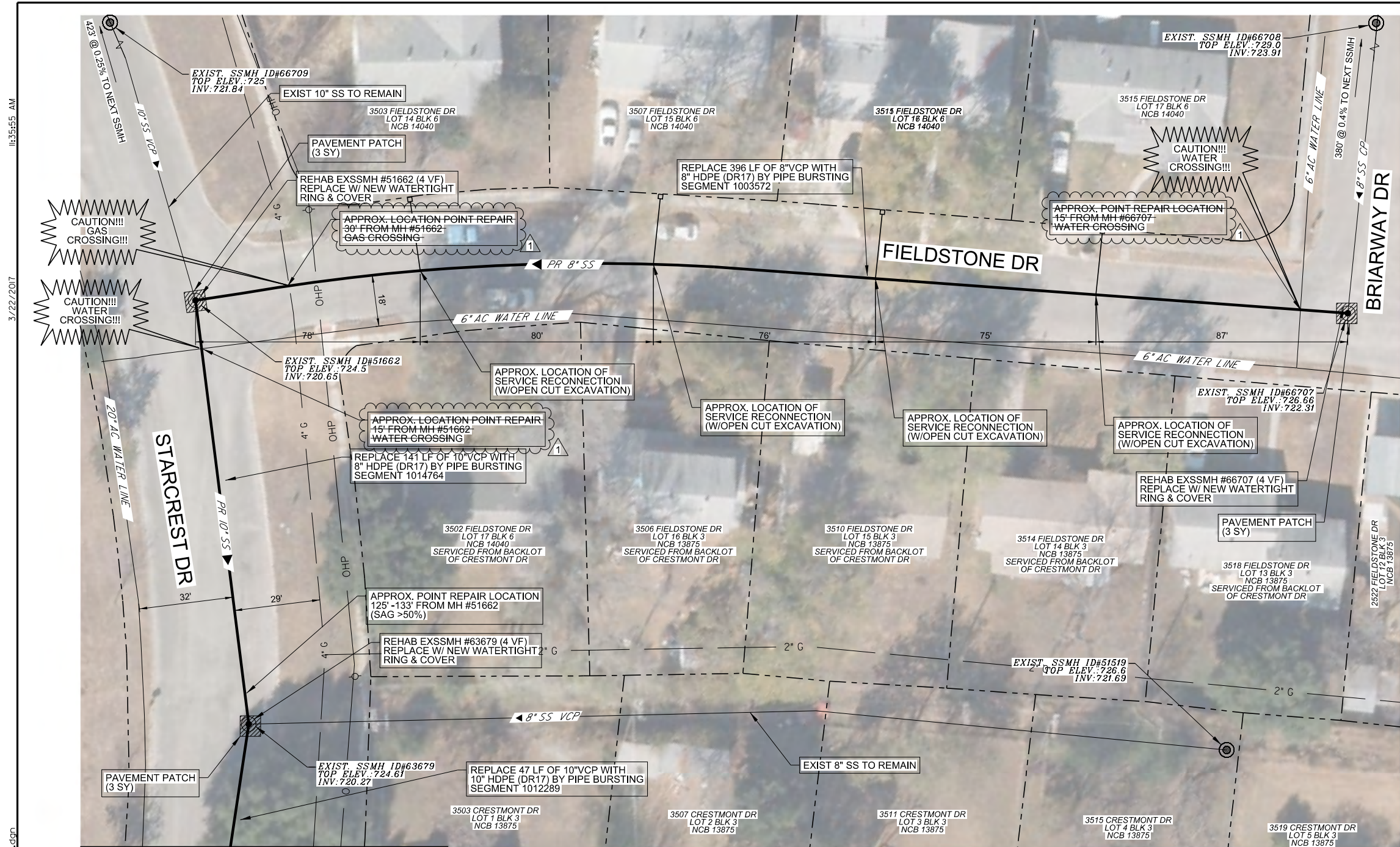
CONTRACTOR TO COORDINATE WITH SAWS INSPECTOR AND COSA TREE ARBORIST FOR TREE PROTECTION REQUIREMENTS

CONTRACTOR MUST NOTIFY SAWS INSPECTION AT 233-3500 48 HOURS BEFORE ANY OF THE FOLLOWING ACTIVITIES TAKE PLACE.

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2. NOTIFICATION OF BYPASS PUMPING SETUP OPERATIONS.
3. NOTIFICATION OF THE PIPE INSTALLATION.

NOTE: CONTRACTOR MUST FIELD VERIFY ALL DEPTHS, DISTANCES, PIPE, SIZES, AND GRADES BEFORE START OF CONSTRUCTION. (N.S.P.I.)

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ITEM NO.	SEWER ITEM DESCRIPTION	QUANTITY	UNIT
205.4	Hot Mtk Asphalt Concrete Pavement, Type D (2\"/>		

PROJECT LEGEND

- EXISTING SEWER MANHOLE
- MANHOLE REHABILITATION
- PROPOSED SEWER MAIN



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 P.E. 56996 ON
 3/22/2017
Carl Bain

PROP 8" & 10" PIPE BURST

SEGMENT 1003572 - 396 L.F.
 SEGMENT 1014764 - 141 L.F.
 SEGMENT 1012289 - 47 L.F.

SEWER LATERAL NOTE:
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1	03-22-2017	ADDENDUM No.2	BMB

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 ENGINEERS & SURVEYORS
 7875 F-001712
 7073 San Pedro, San Antonio, Texas, 78216
 Phone: 210-494-7223 Fax: 210-490-5120 WWW.BMBI.COM

EAST SEWERSHED PACKAGE 1
PLAN VIEW - AREA E3
SEGMENT 1003572, 1014764 & 1012289
WORK SITE 02

DEVELOPER: _____
 CONT. BUDGET PROJ.

SUBMITTED _____
 APPROVED _____

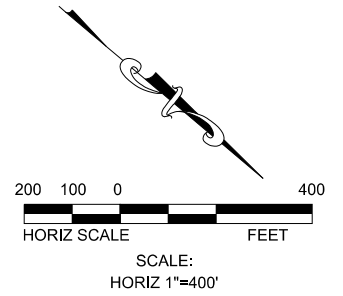
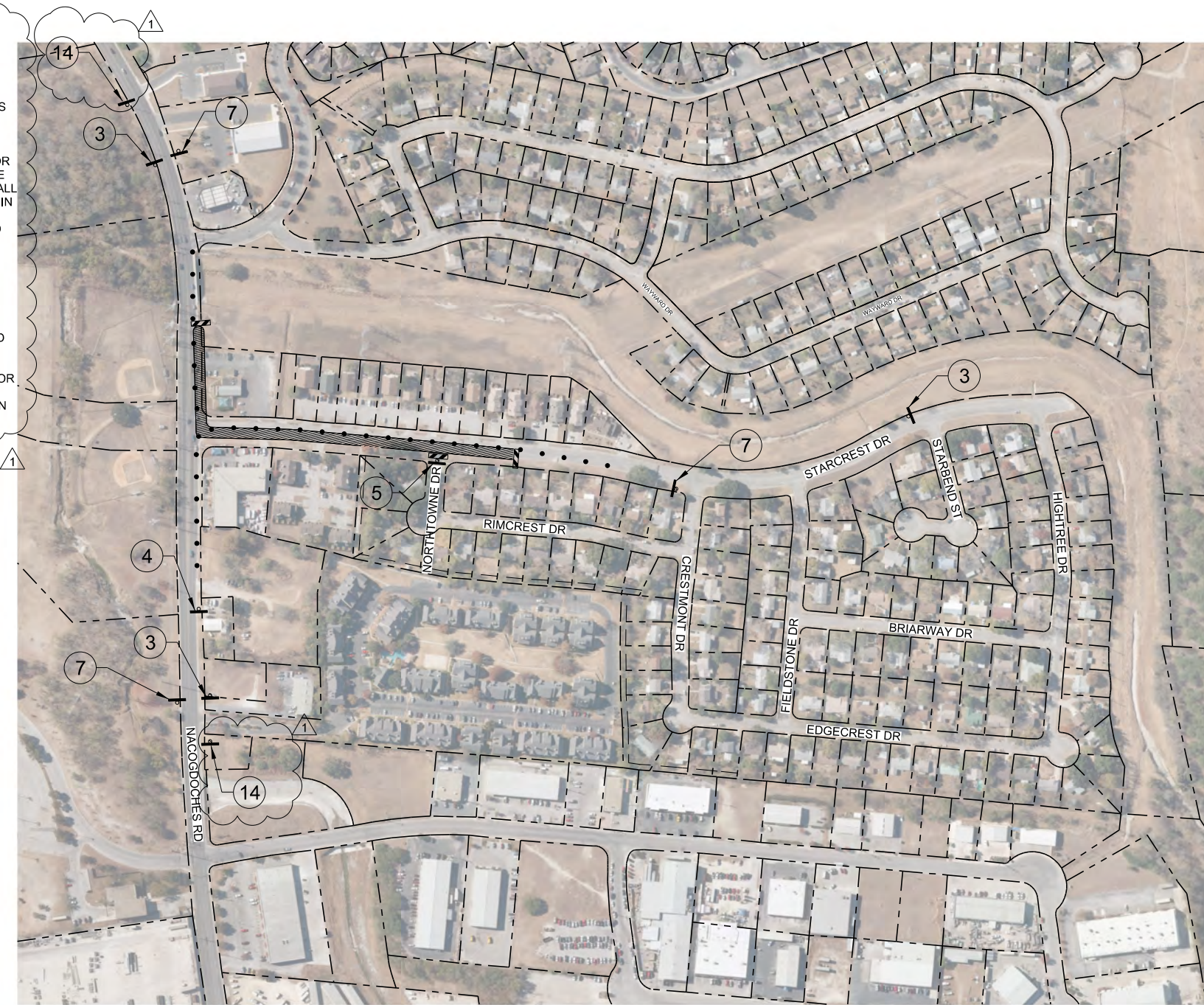
MAP No.	SECT. No.	DR. DC	CK.	CC/CB	JOB No.	FINAL DESIGN	SHEET
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3/22/2017

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- TRAFFIC CONTROL PLAN NOTES:**
1. ALL TRAFFIC CONTROL SHALL CONFORM TO THE LATEST VERSION OF THE CITY OF SAN ANTONIO STANDARD DETAILS TRAFFIC CONTROL STANDARDS AND THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (TMUTCD), PART VI. FIELD MODIFICATIONS MAY BE MADE TO ADDRESS LOCAL CONDITIONS WITH THE APPROVAL OF THE ENGINEER.
 2. WHEN TRAFFIC CONTROL PLAN IS NOT IN EFFECT, REMOVE ALL DEVICES FROM THE TRAVELED LANES AND COVER OR REMOVE ALL WARNING SIGNS.
 3. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ACCESS TO ALL DRIVEWAYS DURING CONSTRUCTION PROVIDING A RIDING SURFACE FOR VEHICLES AND RESIDENTS TO ACCESS EACH PROPERTY. NO SEPARATE PAYMENT SHALL BE MADE FOR MAINTAINING ACCESS TO DRIVEWAYS. ALL DRIVEWAY ACCESS COSTS SHALL BE INCLUDED IN THE VARIOUS ITEMS IN THE PROJECT.
 4. CONTRACTOR IS RESPONSIBLE FOR INSTALLATION, MAINTENANCE, AND REMOVAL OF TRAFFIC CONTROL DEVICES. TRAFFIC CONTROL DEVICES SHOULD BE INSPECTED DAILY AND REPAIRED OR REPLACED AS NECESSARY. AFTER REMOVAL, CONTRACTOR IS RESPONSIBLE FOR RESTORATION OF MODIFICATIONS TO ROADWAY AND SIDEWALK SURFACES, ROADWAY MARKINGS, AND SIGNAGE DUE TO TRAFFIC CONTROL DEVICES OR CONSTRUCTION ACTIVITY.
 5. POLICE OFFICER IS NOT ANTICIPATED PER TRAFFIC CONTROL PLAN. CONTRACTOR SHALL COORDINATE WITH COSA AND TXDOT IF REQUIRED AND/OR DEVIATING FROM PLANS.
 6. CONTRACTOR IS TO FOLLOW THE COSA REQUIREMENT FOR IMPACTED COLLECTOR OR ARTERIAL STREETS, WHICH REQUIRES THE CONTRACTOR TO PROVIDE A SEVEN (7) DAY NOTIFICATION BY ELECTRONIC MESSAGE BOARD BEFORE WORK IS TO OCCUR AND A THREE (3) DAY NOTIFICATION BE MADE BY DOOR HANGER TO IMPACTED RESIDENTS OR BUSINESSES.



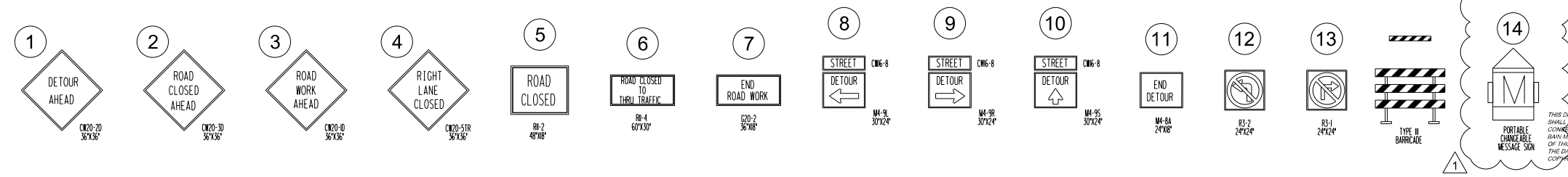
TCP LEGEND

- ROAD CENTERLINE
- SIGN
- TYPE III BARRICADE (8 FT)
- TYPE III BARRICADE (4 FT)
- CHANNELIZING DEVICE
- CONSTRUCTION AREA



The seal appearing on this document was authorized by
 CARL BAIN
 P.E. 56996 ON
 3/22/2017
Carl Bain

TRAFFIC CONTROL PLAN
SEGMENT 1001784, 1002021
1000801 & 1001499



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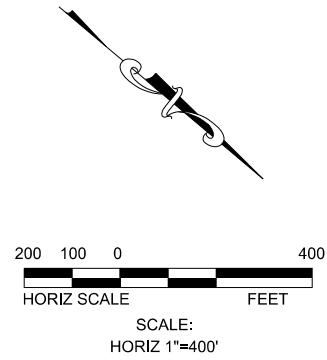
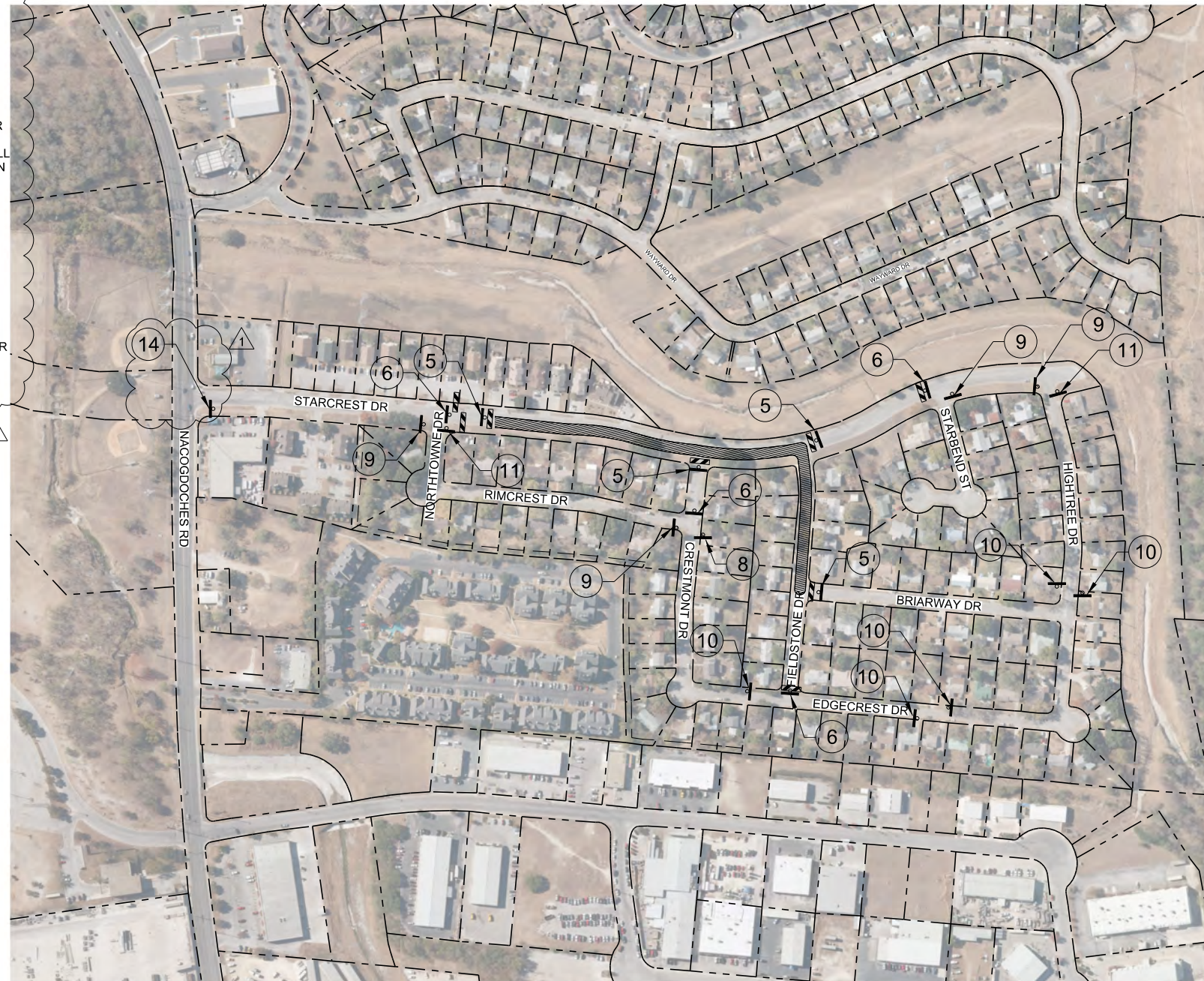
BAIN MEDINA BAIN, INC. ENGINEERS & SURVEYORS 7828 F-001712 7073 San Pedro, San Antonio, Texas, 78216 Phone: 210-494-7223 Fax: 210-490-5120 WWW.BMB.COM	
EAST SEWER SHED PACKAGE 1 PLAN VIEW SEGMENT 1001784, 1002021 1000801 & 1001499 WORK SITE 02	
DEVELOPER:	BUDGET PROJ.
CONT.	
SUBMITTED	
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MAP No.	
SECT. No.	FINAL DESIGN
DR. DC	CK. CC/CB
JOB No.	16-4515
SHEET	50
OF	118

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- TRAFFIC CONTROL PLAN NOTES:**
1. ALL TRAFFIC CONTROL SHALL CONFORM TO THE LATEST VERSION OF THE CITY OF SAN ANTONIO STANDARD DETAILS TRAFFIC CONTROL STANDARDS AND THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (TMUTCD), PART VI. FIELD MODIFICATIONS MAY BE MADE TO ADDRESS LOCAL CONDITIONS WITH THE APPROVAL OF THE ENGINEER.
 2. WHEN TRAFFIC CONTROL PLAN IS NOT IN EFFECT, REMOVE ALL DEVICES FROM THE TRAVELED LANES AND COVER OR REMOVE ALL WARNING SIGNS.
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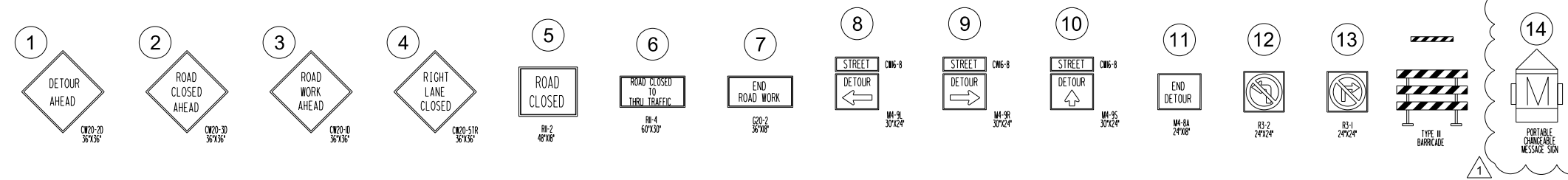
TCP LEGEND

- ROAD CENTERLINE
- SIGN
- TYPE III BARRICADE (8 FT)
- TYPE III BARRICADE (4 FT)
- CHANNELIZING DEVICE
- CONSTRUCTION AREA



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 P.E. 56996 ON
 3/22/2017
Carl Bain

TRAFFIC CONTROL PLAN
SEGMENT 1003572, 1014764
1012289 & 1000862



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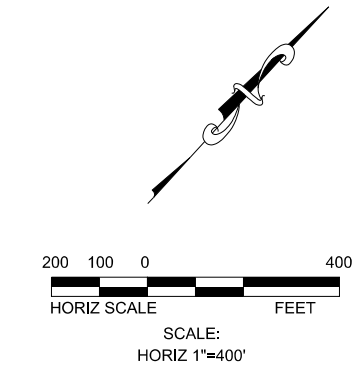
BAIN MEDINA BAIN, INC. ENGINEERS & SURVEYORS 7875 R-001712 7073 San Pedro, San Antonio, Texas, 78216 Phone: 210-494-7223 Fax: 210-490-5120 WWW.BMB.COM	
EAST SEWERSHED PACKAGE 1 PLAN VIEW SEGMENT 1003572, 1014764 1012289 & 1000862 WORK SITE 02	
DEVELOPER:	BUDGET PROJ.
CONT.	
SUBMITTED	
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MAP No.	
SECT. No.	FINAL DESIGN
DR. DC	CK. CC/CB
JOB No.	16-4515
SHEET	51
	OF 118

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3/22/2017

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- TRAFFIC CONTROL PLAN NOTES:**
1. ALL TRAFFIC CONTROL SHALL CONFORM TO THE LATEST VERSION OF THE CITY OF SAN ANTONIO STANDARD DETAILS TRAFFIC CONTROL STANDARDS AND THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (TMUTCD), PART VI. FIELD MODIFICATIONS MAY BE MADE TO ADDRESS LOCAL CONDITIONS WITH THE APPROVAL OF THE ENGINEER.
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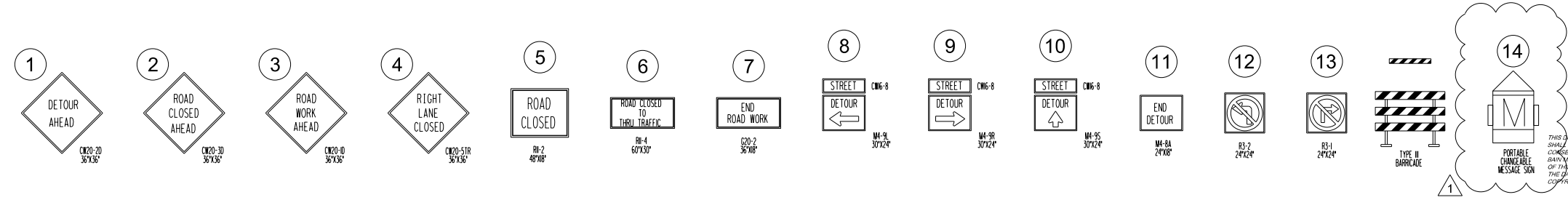
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- CONSTRUCTION AREA



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**TRAFFIC CONTROL PLAN
 SEGMENT 1003506 & 1003653**



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REV.	DATE	DESCRIPTION	BY
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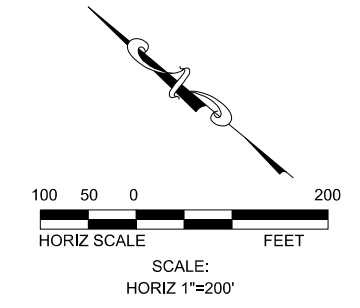
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EAST SEWERSHED PACKAGE 1 PLAN VIEW SEGMENT 1003506 & 1003653 WORK SITE 02	
DEVELOPER:	BUDGET PROJ.
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SUBMITTED	
APPROVED	
MAP No.	
SECT. No.	FINAL DESIGN
DR. DC	CK. CC/CB
JOB No.	16-4515
SHEET	55
OF	118

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3/22/2017

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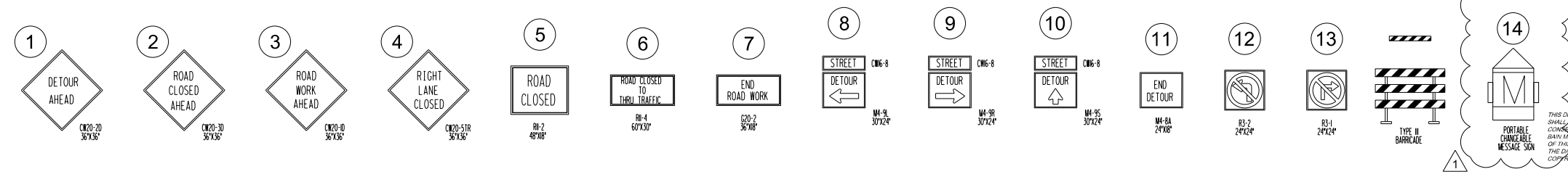
TCP LEGEND

- ROAD CENTERLINE
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**TRAFFIC CONTROL PLAN
 SEGMENT 1041703 & 1000806**



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1	03-22-2017	ADDENDUM No.2	BMB

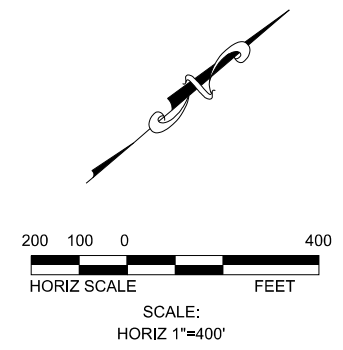
BAIN MEDINA BAIN, INC. ENGINEERS & SURVEYORS 7073 San Pedro, San Antonio, Texas, 78216 Phone: 210-494-7223 Fax: 210-490-5120 WWW.BMBL.COM	
EAST SEWERSHED PACKAGE 1 PLAN VIEW SEGMENT 1041703 & 1000806 WORK SITE 02	
DEVELOPER:	BUDGET PROJ.
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DR. DC	CK. CC/CB
JOB No.	16-4515
SHEET	61
OF	118

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- TRAFFIC CONTROL PLAN NOTES:**
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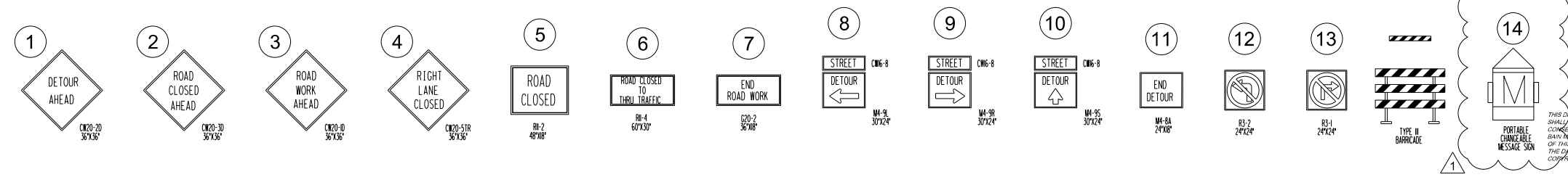
TCP LEGEND

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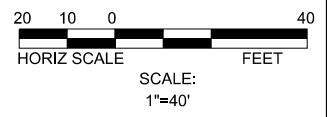
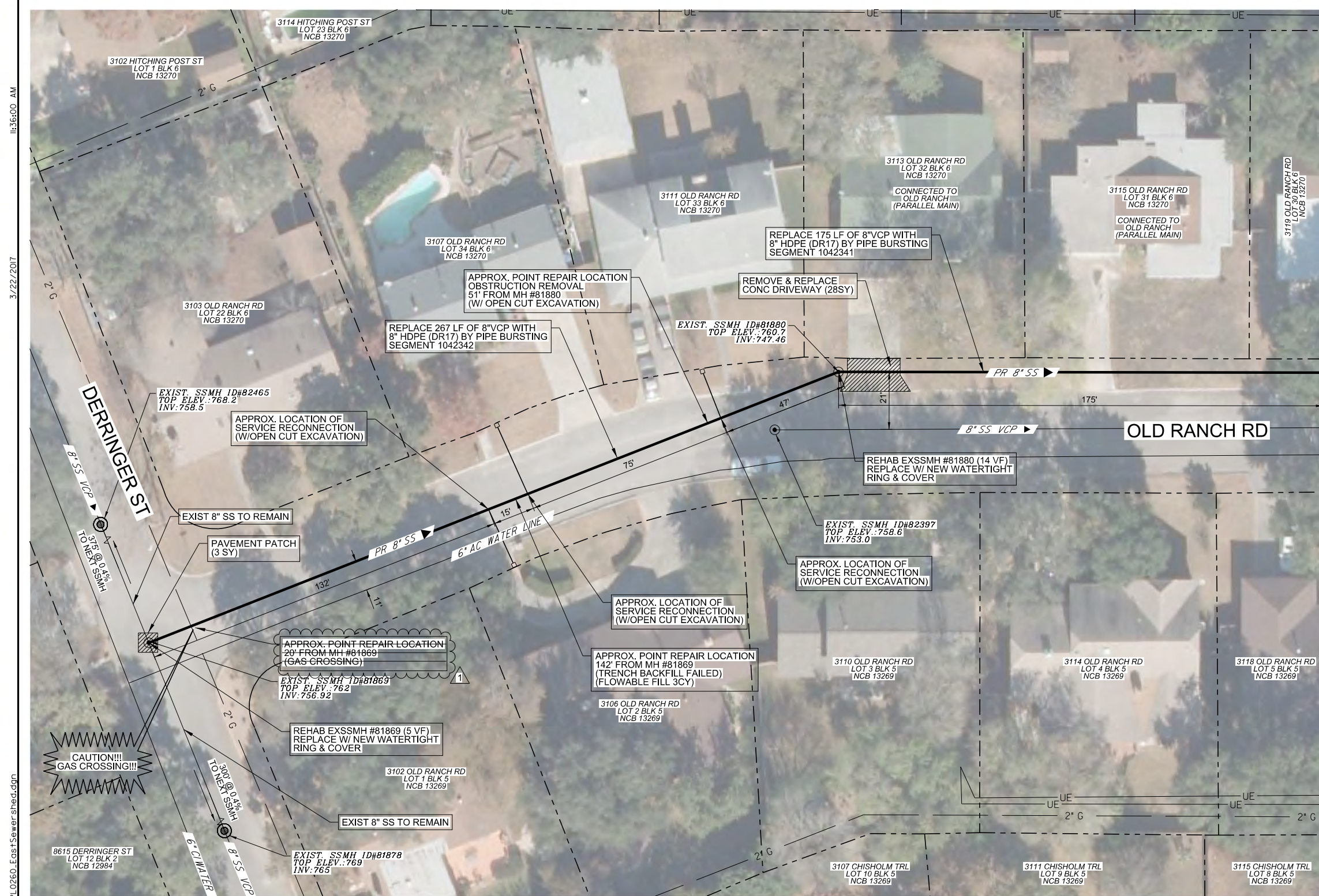
TRAFFIC CONTROL PLAN SEGMENT 1050022 & 1050215



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1	03-22-2017	ADDENDUM No.2	BMB

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EAST SEWERSHED PACKAGE 1 PLAN VIEW SEGMENT 1050022 & 1050215 WORK SITE 02	
DEVELOPER:	BUDGET PROJ.
CONT.	
SUBMITTED	
APPROVED	
MAP No.	
SECT. No.	FINAL DESIGN
DR. DC	CK. CC/CB
JOB No.	16-4515
SHEET	71
	OF 118



ITEM NO.	SEWER ITEM DESCRIPTION	QUANTITY	UNIT
103.3	Remove Concrete Sidewalks and Driveways (COSA Spec)	245	SF
205.4	Hot Mix Asphaltic Concrete Pavement, Type D (2' Compacted Depth) (COSA Spec)	3	SY
206.1	Asphalt Treated Base (ATB) (10' Compacted Depth) (COSA Spec)	3	SY
413	Flowable Fill	3	CY
503.1	Portland Cement Concrete Driveway (COSA Spec)	28	SY
866	Sewer Main Pre-Television Inspection (8" through 15" Diameter)	442	LF
866	Sewer Main Post-Television Inspection (8" through 15" Diameter)	442	LF
900	Pipe Bursting 8" Sanitary Sewer Pipe, 0'-10' deep	140	LF
900	Pipe Bursting 8" Sanitary Sewer Pipe, 10'-15' deep	302	LF
910	Manhole Rehabilitation (Inc. New Ring, Cover & Encasement)	13	VF
1103.1	Point repairs for 8" or 10" Diameter, (0'-10' depth) including up to 20 LF of plating	1	EA
1103.1	Point repairs for 8" or 10" Diameter, (10'-15' depth) including up to 20 LF of plating	1	EA
1103.3	Obstruction Removal by Excavation, 8" or 10" Diameter, All Depths	1	EA
1109	Service Reconnection, (w/ open cut excavation, 0'-10' depth, including up to 10 LF of lateral)	2	EA
1109	Service Reconnection, (w/ open cut excavation, 10'-15' depth, including up to 10 LF of lateral)	1	EA

PROJECT LEGEND

- EXISTING SEWER MANHOLE
- MANHOLE REHABILITATION
- PROPOSED SEWER MAIN
- EXISTING GAS
- EXISTING WATER
- EXISTING OH ELECTRIC
- EXISTING URD ELECTRIC
- EXISTING SEWER
- PROPOSED ASPHALT PATCH
- PROPERTY LINE
- EXISTING FENCE



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PROP 8" PIPE BURST SEGMENT 1042342 - 267 L.F. SEGMENT 1042341 - 175 L.F.

SEWER LATERAL NOTE:
 SEWER LATERAL PLACEMENTS WERE BASED ON PRE-TELEVISION INSPECTION AND SAWS BLOCK MAPS. THE CONTRACTOR IS RESPONSIBLE FOR THE VERIFICATION OF THE SEWER LATERAL LOCATIONS AND EXISTING UTILITIES, BEFORE CONSTRUCTION BEGINS.

NOTE:
 THE EXISTING UNDERGROUND UTILITIES SHOWN ON THESE PLANS ARE BASED UPON RECORD INFORMATION ONLY AND ARE APPROXIMATE. THE EXACT LOCATION OF ALL EXISTING UNDERGROUND UTILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR. THE CONTRACTOR SHALL ALSO CONTACT THE UTILITY PURVEYORS BEFORE BEGINNING WORK. CONTRACTOR SHALL TAKE FULL RESPONSIBILITY FOR ALL AND ANY DAMAGES THAT MIGHT OCCUR BY HIS FAILURE TO ACCURATELY LOCATE ALL EXISTING UNDERGROUND UTILITIES AND PRESERVE EXISTING CONDITIONS.

TRENCH EXCAVATION SAFETY PROTECTION
 CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/GEOTECHNICAL/SAFETY/ EQUIPMENT CONSULTANT, IF ANY SHALL REVIEW THESE PLANS AND AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITE(S) WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES. THE CONTRACTOR'S IMPLEMENTATION OF THE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLIES WITH AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OF SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.

TEMPORARY FENCING NOTE:
 CONTRACTOR TO INSTALL TEMPORARY CHAIN LINK FENCE (6 FT HIGH) PER SAWS INSPECTOR DIRECTIONS. (NSPI)
 THERE WILL BE NO SEPARATE PAYMENT FOR TEMPORARY CHAIN LINK FENCE WITH ALL RELATED COSTS INCLUDED IN THE ITEM TO WHICH IT PERTAINS.

CONTRACTOR TO COORDINATE WITH SAWS INSPECTOR AND COSA TREE ARBORIST FOR TREE PROTECTION REQUIREMENTS

CONTRACTOR MUST NOTIFY SAWS INSPECTION AT 233-3500 48 HOURS BEFORE ANY OF THE FOLLOWING ACTIVITIES TAKE PLACE.

1. NOTIFICATION OF PRE-TELEVISION INSPECTION.
2. NOTIFICATION OF BYPASS PUMPING SETUP OPERATIONS.
3. NOTIFICATION OF THE PIPE INSTALLATION.

NOTE: CONTRACTOR MUST FIELD VERIFY ALL DEPTHS, DISTANCES, PIPE, SIZES, AND GRADES BEFORE START OF CONSTRUCTION. (N.S.P.I.)

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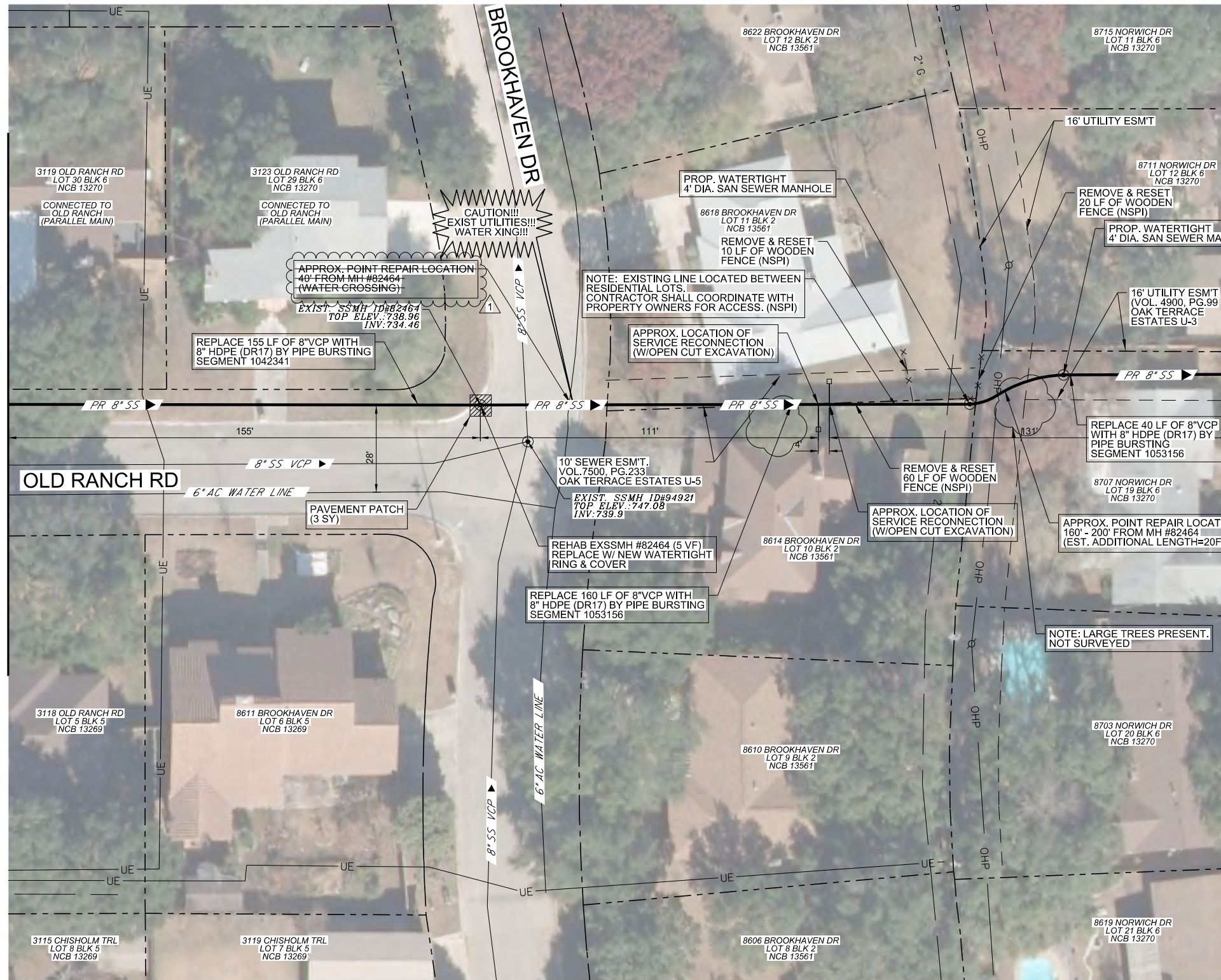
BAIN MEDINA BAIN, INC.
 ENGINEERS & SURVEYORS
 78PE F-001712
 7073 San Pedro, San Antonio, Texas, 78216
 Phone: 210-494-7223 Fax: 210-490-5120 WWW.BMBAI.COM

**EAST SEWERSHED PACKAGE 1
 PLAN VIEW - AREA J2
 SEGMENT 1042342 & 1042341
 WORK SITE 02**

DEVELOPER:		BUDGET PROJ.	
CONT.			
SUBMITTED			
APPROVED			
MAP No.		FINAL DESIGN	SHEET
SECT. No.		JOB No.	73
DR. DC	CK. CC/CB	16-4515	OF 118

3/22/2017 11:36:00 AM
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MATCH LINE (SEE SHEET 74)



ITEM NO.	SEWER ITEM DESCRIPTION	QUANTITY	UNIT
205.4	Hot Mix Asphalt Concrete Pavement, Type D (2\"/>		

PROJECT LEGEND

- EXISTING SEWER MANHOLE
- MANHOLE REHABILITATION
- PROPOSED SEWER MAIN
- EXISTING GAS
- EXISTING WATER
- EXISTING OH ELECTRIC
- EXISTING URD ELECTRIC
- EXISTING SEWER
- PROPOSED ASPHALT PATCH
- PROPERTY LINE
- EXISTING FENCE



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Carl Bain

**PROP 8" PIPE BURST
 SEGMENT 1042341 - 155 L.F.
 SEGMENT 1053156 - 240 L.F.**

SEWER LATERAL NOTE:
 SEWER LATERAL PLACEMENTS WERE BASED ON PRE-TELEVISION INSPECTION AND SAWS BLOCK MAPS. THE CONTRACTOR IS RESPONSIBLE FOR THE VERIFICATION OF THE SEWER LATERAL LOCATIONS AND EXISTING UTILITIES, BEFORE CONSTRUCTION BEGINS.

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2. NOTIFICATION OF BYPASS PUMPING SETUP OPERATIONS.
3. NOTIFICATION OF THE PIPE INSTALLATION.

NOTE: CONTRACTOR MUST FIELD VERIFY ALL DEPTHS, DISTANCES, PIPE, SIZES, AND GRADES BEFORE START OF CONSTRUCTION. (N.S.P.I.)

THIS DRAWING IS THE PROPERTY OF BAIN MEDINA BAIN, INC. AND SHALL NOT BE USED FOR ANY PURPOSE WITHOUT THE WRITTEN CONSENT OF AN AUTHORIZED AGENT OF BAIN MEDINA BAIN, INC. BAIN MEDINA BAIN, INC. ACCEPTS NO RESPONSIBILITY FOR THE USE OF THIS DRAWING FOR ANY PURPOSE AFTER SIX MONTHS FROM THE DATE INDICATED ON THE DRAWING. ALL RIGHTS RESERVED. COPYRIGHT 2014, BAIN MEDINA BAIN, INC.

REV.	DATE	DESCRIPTION	BY
1	03-22-2017	ADDENDUM No.2	BMB

BAIN MEDINA BAIN, INC.
ENGINEERS & SURVEYORS
 78PE R-001712
 7073 San Pedro, San Antonio, Texas, 78216
 Phone: 210-494-7223 Fax: 210-490-5120 WWW.BMB.COM

EAST SEWERSHED PACKAGE 1
PLAN VIEW - AREA J2
SEGMENT 1042341 & 1053156
WORK SITE 02

DEVELOPER: _____
 CONT. BUDGET PROJ. _____

SUBMITTED _____
 APPROVED _____

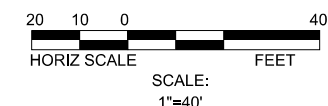
MAP No.	SHEET 74
SECT. No.	FINAL DESIGN
DR. DC	CK. CC/CB
JOB No.	16-4515
OF 118	

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3/22/2017

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MATCH LINE (SEE SHEET 74)



ITEM NO.	SEWER ITEM DESCRIPTION	QUANTITY	UNIT
205.4	Hot Mix Asphaltic Concrete Pavement, Type D (2" Compacted Depth) (COSA Spec)	168	SY
206.1	Asphalt Treated Base (ATB) (10" Compacted Depth) (COSA Spec)	23	SY
208.1	Salvaging Hauling & Stockpiling Reducible Asphaltic Pavement (2" Depth) (COSA Spec)	168	SY
515.1	Topsoil (COSA SPEC)	4	CY
516.1	Bermuda Sodding (COSA SPEC)	39	SY
866	Sewer Main Pre-Television Inspection (8" through 15" Diameter)	132	LF
900	Pipe Bursting 8" Sanitary Sewer Pipe, 0'-10' deep	132	LF
910	Manhole Rehabilitation (Inc. New Ring, Cover & Encasement)	1	EA
1103.1	Point repairs for 8" or 10" Diameter, (0'-10' depth) including up to 20 LF of piping	1	EA
1103.2	Extra length point repair, 8" or 10" Diameter, all depths	1	EA
1109	Service Reconnection, (w/ open cut excavation, 0'-10' depth, including up to 10 LF of lateral)	2	EA

PROJECT LEGEND

- EXISTING SEWER MANHOLE
- MANHOLE REHABILITATION
- PROPOSED SEWER MAIN
- EXISTING GAS
- EXISTING WATER
- EXISTING OH ELECTRIC
- EXISTING URD ELECTRIC
- EXISTING SEWER
- PROPOSED ASPHALT PATCH
- PROPERTY LINE
- EXISTING FENCE



The seal appearing on this document was authorized by
 CARL BAIN
 P.E. 56996 ON
 3/22/2017
Carl Bain

PROP 8" PIPE BURST SEGMENT 1053156 - 100 L.F. SEGMENT 1053157 - 32 L.F.

SEWER LATERAL NOTE:
 SEWER LATERAL PLACEMENTS WERE BASED ON PRE-TELEVISION INSPECTION AND SAWS BLOCK MAPS. THE CONTRACTOR IS RESPONSIBLE FOR THE VERIFICATION OF THE SEWER LATERAL LOCATIONS AND EXISTING UTILITIES, BEFORE CONSTRUCTION BEGINS.

NOTE:
 THE EXISTING UNDERGROUND UTILITIES SHOWN ON THESE PLANS ARE BASED UPON RECORD INFORMATION ONLY AND ARE APPROXIMATE. THE EXACT LOCATION OF ALL EXISTING UNDERGROUND UTILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR. THE CONTRACTOR SHALL ALSO CONTACT THE UTILITY PURVEYORS BEFORE BEGINNING WORK. CONTRACTOR SHALL TAKE FULL RESPONSIBILITY FOR ALL AND ANY DAMAGES THAT MIGHT OCCUR BY HIS FAILURE TO ACCURATELY LOCATE ALL EXISTING UNDERGROUND UTILITIES AND PRESERVE EXISTING CONDITIONS.

TRENCH EXCAVATION SAFETY PROTECTION
 CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/GEOTECHNICAL/SAFETY/ EQUIPMENT CONSULTANT, IF ANY SHALL REVIEW THESE PLANS AND AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITE(S) WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES. THE CONTRACTOR'S IMPLEMENTATION OF THE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLIES WITH AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OF SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.

TEMPORARY FENCING NOTE:
 CONTRACTOR TO INSTALL TEMPORARY CHAIN LINK FENCE (6 FT HIGH) PER SAWS INSPECTOR DIRECTIONS. (NSPI)
 THERE WILL BE NO SEPERATE PAYMENT FOR TEMPORARY CHAIN LINK FENCE WITH ALL RELATED COSTS INCLUDED IN THE ITEM TO WHICH IT PERTAINS.

CONTRACTOR TO COORDINATE WITH SAWS INSPECTOR AND COSA TREE ARBORIST FOR TREE PROTECTION REQUIREMENTS

CONTRACTOR MUST NOTIFY SAWS INSPECTION AT 233-3500 48 HOURS BEFORE ANY OF THE FOLLOWING ACTIVITIES TAKE PLACE.

1. NOTIFICATION OF PRE-TELEVISION INSPECTION.
2. NOTIFICATION OF BYPASS PUMPING SETUP OPERATIONS.
3. NOTIFICATION OF THE PIPE INSTALLATION.

NOTE: CONTRACTOR MUST FIELD VERIFY ALL DEPTHS, DISTANCES, PIPE, SIZES, AND GRADES BEFORE START OF CONSTRUCTION. (N.S.P.I.)

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REV.	DATE	DESCRIPTION	BY
1	03-22-2017	ADDENDUM No.2	BMB

BAIN MEDINA BAIN, INC.
ENGINEERS & SURVEYORS
 7073 San Pedro, San Antonio, Texas, 78216
 Phone: 210-494-7223 Fax: 210-490-5120 WWW.BMBI.COM

EAST SEWERSHED PACKAGE 1
PLAN VIEW - AREA J2
SEGMENT 1053156 & 1053157
WORK SITE 02

DEVELOPER: _____
 CONT. _____ BUDGET PROJ. _____

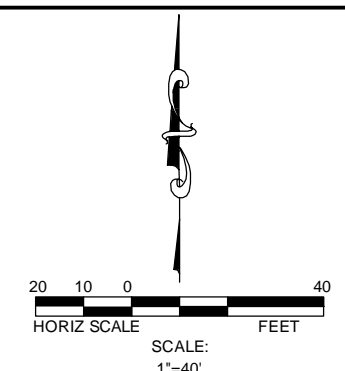
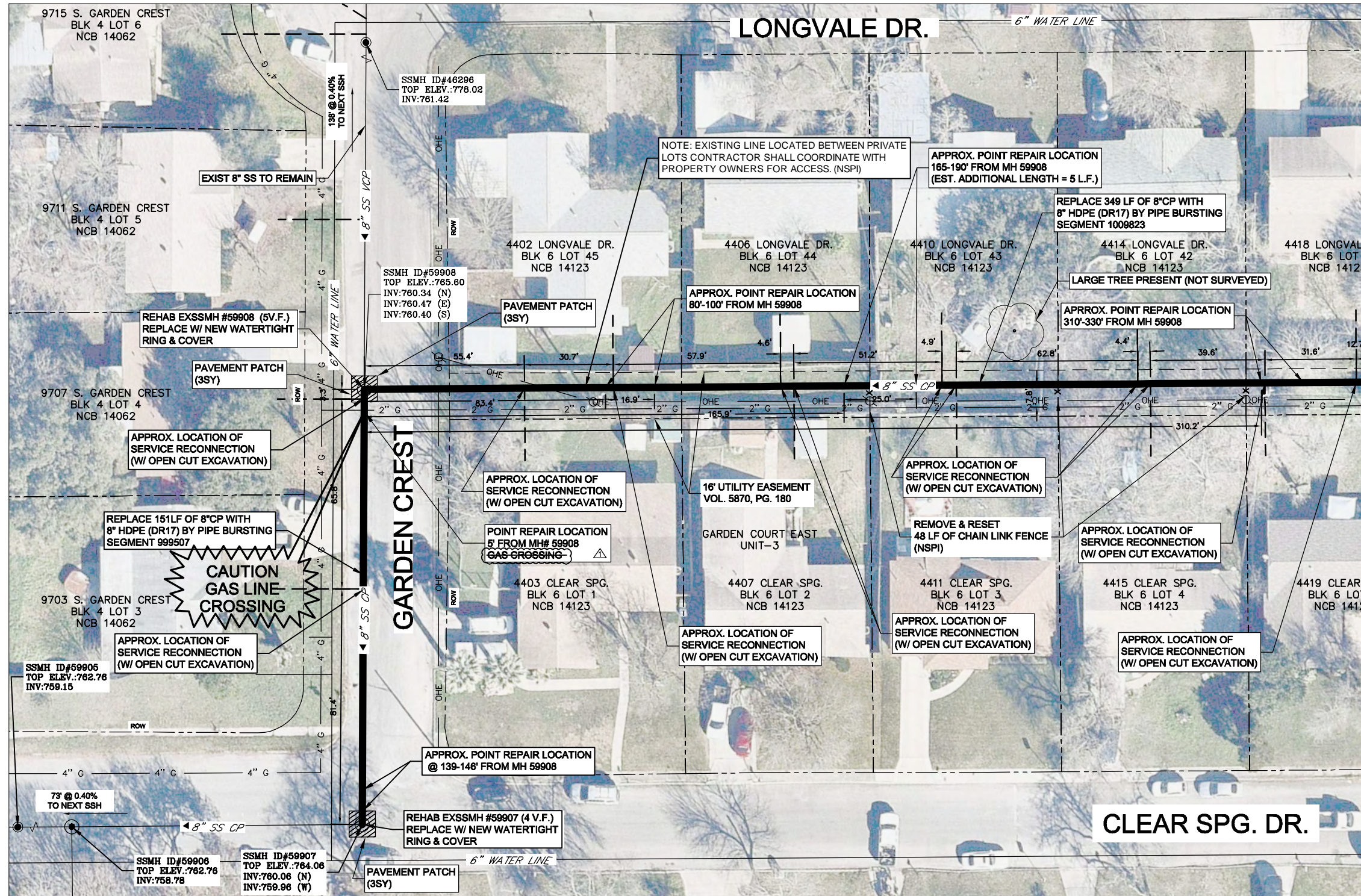
SUBMITTED _____
 APPROVED _____

MAP No. _____	SHEET 75
SECT. No. _____	OF 118
DR. DC _____	CK. CC/CB _____
JOB No. 16-4515	FINAL DESIGN

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7/12/2016

K:\SNA_Utilities\06865028 - East Sewershed (16)\CAD\SHETS\SewerPlan_CS_06865028.dwg



ITEM NO.	SEWER ITEM DESCRIPTION	QUANTITY	UNIT
General Sanitary Sewer Bid Items			
205.4	Hot Mix Asphaltic Concrete Pavement Type D (2' Compacted Depth) (COSA Spec)	6	SY
206.1	Asphalt Treated Base (ATB) (10' Compacted Depth) (COSA Spec)	6	SY
515.1	Top Soil (COSA Spec)	10	CY
516.2	St. Augustine Sodding (COSA Spec)	361	SY
865	Sewer Main Pre-Television Inspection (8" through 15" Diameter)	500	LF
866	Sewer Main Post-Television Inspection (8" through 15" Diameter)	500	LF
900	Pipe Bursting 8" Sanitary Sewer Pipe, 0'-10' deep	500	LF
910	Manhole Rehabilitation (Inc. New Ring, Cover & Encasement)	9.00	VF
1103.1	Point repairs for 8" or 10" Diameter, (0'-10' depth) including up to 20 LF of piping	4	EA
1103.2	Extra length point repair, 8" or 10" Diameter, all depths	5	LF
1103.3	Obstruction Removal by Excavation, 8" or 10" Diameter, all depths	0	EA
1109	Service Reconnection, (w/ open cut excavation, 0'-10' depth, including up to 10 LF of lateral)	12	EA

MATCHLINE STA 6+00 (SEE SHEET 84)

PROJECT LEGEND

- EXISTING SEWER MANHOLE
- MANHOLE REHABILITATION
- PROPOSED SEWER MAIN
- EXISTING GAS
- EXISTING WATER
- EXISTING OH ELECTRIC
- EXISTING URD ELECTRIC
- EXISTING SEWER
- PROPOSED ASPHALT PATCH
- PROPERTY LINE
- EXISTING FENCE

Jeffrey A. Farnsworth
 STATE OF TEXAS
 JEFFREY A. FARNSWORTH
 80190
 REGISTERED PROFESSIONAL ENGINEER
 3/22/2017

REVISION	DATE	DESCRIPTION	BY
1	03/22/17	ADDENDUM NO. 2	JAF

Kimley»Horn
 FIRM REGISTRATION NO. 928
 601 NW LOOP 410 SUITE 350
 SAN ANTONIO, TX 78216
 TEL NO. 210-541-9166
 FAX NO. 210-541-8699

SAUC EAST SEWERSHED
 PLAN VIEW - AREA G5
 SEGMENT 999507 & 1009823
 WORK SITE 03

DEVELOPER:		BUDGET PROJ.	
CONT.		BUDGET PROJ.	
SUBMITTED			
APPROVED			
MAP No.			
SECT. No.	FINAL SUBMITTAL		
DR. DG	CK.	JAF	JOB No. 16-4515
			SHEET 83 OF 118

PROP 8" PIPE BURST
SEGMENT 1009823 - 349 L.F.
SEGMENT 999507 - 151 L.F.

SEWER LATERAL NOTE:
 SEWER LATERAL PLACEMENTS WERE BASED ON PRE-TELEVISION INSPECTION AND SAWS BLOCK MAPS. THE CONTRACTOR IS RESPONSIBLE FOR THE VERIFICATION OF THE SEWER LATERAL LOCATIONS AND EXISTING UTILITIES, BEFORE CONSTRUCTION BEGINS.

NOTE:
 THE EXISTING UNDERGROUND UTILITIES SHOWN ON THESE PLANS ARE BASED UPON RECORD INFORMATION ONLY AND ARE APPROXIMATE. THE EXACT LOCATION OF ALL EXISTING UNDERGROUND UTILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR. THE CONTRACTOR SHALL ALSO CONTACT THE UTILITY PURVEYORS BEFORE BEGINNING WORK. CONTRACTOR SHALL TAKE FULL RESPONSIBILITY FOR ALL AND ANY DAMAGES THAT MIGHT OCCUR BY HIS FAILURE TO ACCURATELY LOCATE ALL EXISTING UNDERGROUND UTILITIES AND PRESERVE EXISTING CONDITIONS.

TEMPORARY FENCING NOTE:
 CONTRACTOR TO INSTALL TEMPORARY CHAIN LINK FENCE (6 FT HIGH) PER SAWS INSPECTOR DIRECTIONS (NSPI). THERE WILL BE NO SEPARATE PAYMENT FOR TEMPORARY CHAIN LINK FENCE WITH ALL RELATED COSTS INCLUDED IN THE ITEM TO WHICH IT PERTAINS

- CONTRACTOR MUST NOTIFY SAWS INSPECTION AT 233-3500 48 HOURS BEFORE ANY OF THE FOLLOWING ACTIVITIES TAKE PLACE.
1. NOTIFICATION OF PRE-TELEVISION INSPECTION.
 2. NOTIFICATION OF BYPASS PUMPING SETUP OPERATIONS.
 3. NOTIFICATION OF THE PIPE INSTALLATION.

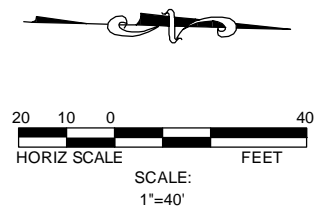
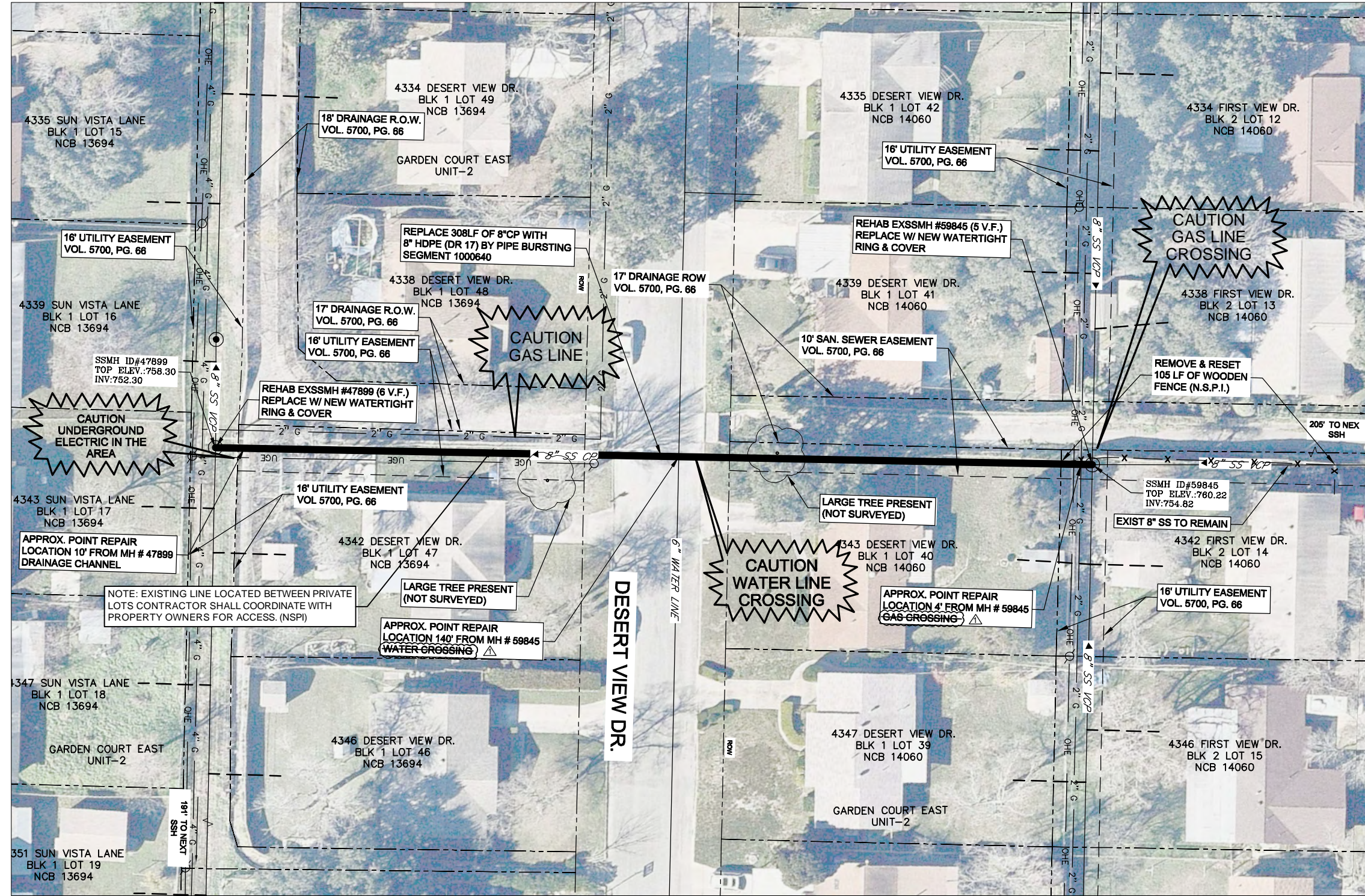
NOTE: CONTRACTOR MUST FIELD VERIFY ALL DEPTHS, DISTANCES, PIPE SIZES, AND GRADES BEFORE START OF CONSTRUCTION. (N.S.P.I.)

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7/12/2016

K:\SNA_Utilities\068665028 - East Sewershed (16)\CAD\SHEETS\SewerPlan_CS_068665028.dwg



ITEM NO.	SEWER ITEM DESCRIPTION	QUANTITY	UNIT
General Sanitary Sewer Bid Items			
103.4	Remove Miscellaneous Concrete (COSA Spec)	55	SF
505.1	Concrete Riprap (5" Thick) (COSA Spec)	6	SY
515.1	Top Soil (COSA Spec)	16	CY
516.2	St. Augustine Sodding (COSA Spec)	311	SY
865	Sewer Main Pre-Television Inspection (8" through 15" Diameter)	308	LF
866	Sewer Main Post-Television Inspection (8" through 15" Diameter)	308	LF
900	Pipe Bursting 8" Sanitary Sewer Pipe, 0'-10' deep	308	LF
910	Manhole Rehabilitation (Inc. New Ring, Cover & Encasement)	11.00	VF
1103.1	Point repairs for 8" or 10" Diameter, (0'-10' depth) including up to 20 LF of piping	3	EA
1103.2	Extra length point repair, 8" or 10" Diameter, all depths	0	LF
1103.3	Obstruction Removal by Excavation, 8" or 10" Diameter, all depths	0	EA
1109	Service Reconnection, (w/ open cut excavation, 0'-10' depth, including up to 10 LF of lateral)	0	EA

PROJECT LEGEND

- EXISTING SEWER MANHOLE
- MANHOLE REHABILITATION
- PROPOSED SEWER MAIN 8" SS
- EXISTING GAS 4"G
- EXISTING WATER 8" AC WATER LINE
- EXISTING OH ELECTRIC OHP
- EXISTING URD ELECTRIC UE
- EXISTING SEWER 8" SS VCP
- PROPOSED ASPHALT PATCH
- PROPERTY LINE
- EXISTING FENCE



REVISION	DATE	DESCRIPTION	BY
△	03/22/17	ADDENDUM NO. 2	JAF

**PROP 8" PIPE BURST
SEGMENT 1000640 - 308 L.F.**

SEWER LATERAL NOTE:
SEWER LATERAL PLACEMENTS WERE BASED ON PRE-TELEVISION INSPECTION AND SAWS BLOCK MAPS. THE CONTRACTOR IS RESPONSIBLE FOR THE VERIFICATION OF THE SEWER LATERAL LOCATIONS AND EXISTING UTILITIES, BEFORE CONSTRUCTION BEGINS.

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TEMPORARY FENCING NOTE:
CONTRACTOR TO INSTALL TEMPORARY CHAIN LINK FENCE (6 FT HIGH) PER SAWS INSPECTOR DIRECTIONS (NSPI). THERE WILL BE NO SEPARATE PAYMENT FOR TEMPORARY CHAIN LINK FENCE WITH ALL RELATED COSTS INCLUDED IN THE ITEM TO WHICH IT PERTAINS.

CONTRACTOR MUST NOTIFY SAWS INSPECTION AT 233-3500 48 HOURS BEFORE ANY OF THE FOLLOWING ACTIVITIES TAKE PLACE.

1. NOTIFICATION OF PRE-TELEVISION INSPECTION.
2. NOTIFICATION OF BYPASS PUMPING SETUP OPERATIONS.
3. NOTIFICATION OF THE PIPE INSTALLATION.

NOTE: CONTRACTOR MUST FIELD VERIFY ALL DEPTHS, DISTANCES, PIPE, SIZES, AND GRADES BEFORE START OF CONSTRUCTION. (N.S.P.I.)

TRENCH EXCAVATION SAFETY PROTECTION
CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/GEOTECHNICAL/SAFETY/ EQUIPMENT CONSULTANT, IF ANY SHALL REVIEW THESE PLANS AND AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITE(S) WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES. THE CONTRACTOR'S IMPLEMENTATION OF THE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLIES WITH AS A MINIMUM OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OF SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.

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Kimley»Horn

FIRM REGISTRATION NO. 928
601 NW LOOP 410 SUITE 350
SAN ANTONIO, TX 78216
TEL. NO. 210-541-9166
FAX NO. 210-541-8699

EAST SEWERSHED
PLAN VIEW - AREA G5
SEGMENT 1000640
WORK SITE 03

DEVELOPER: _____
CONT. _____ BUDGET PROJ. _____

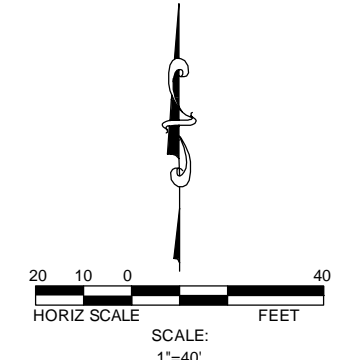
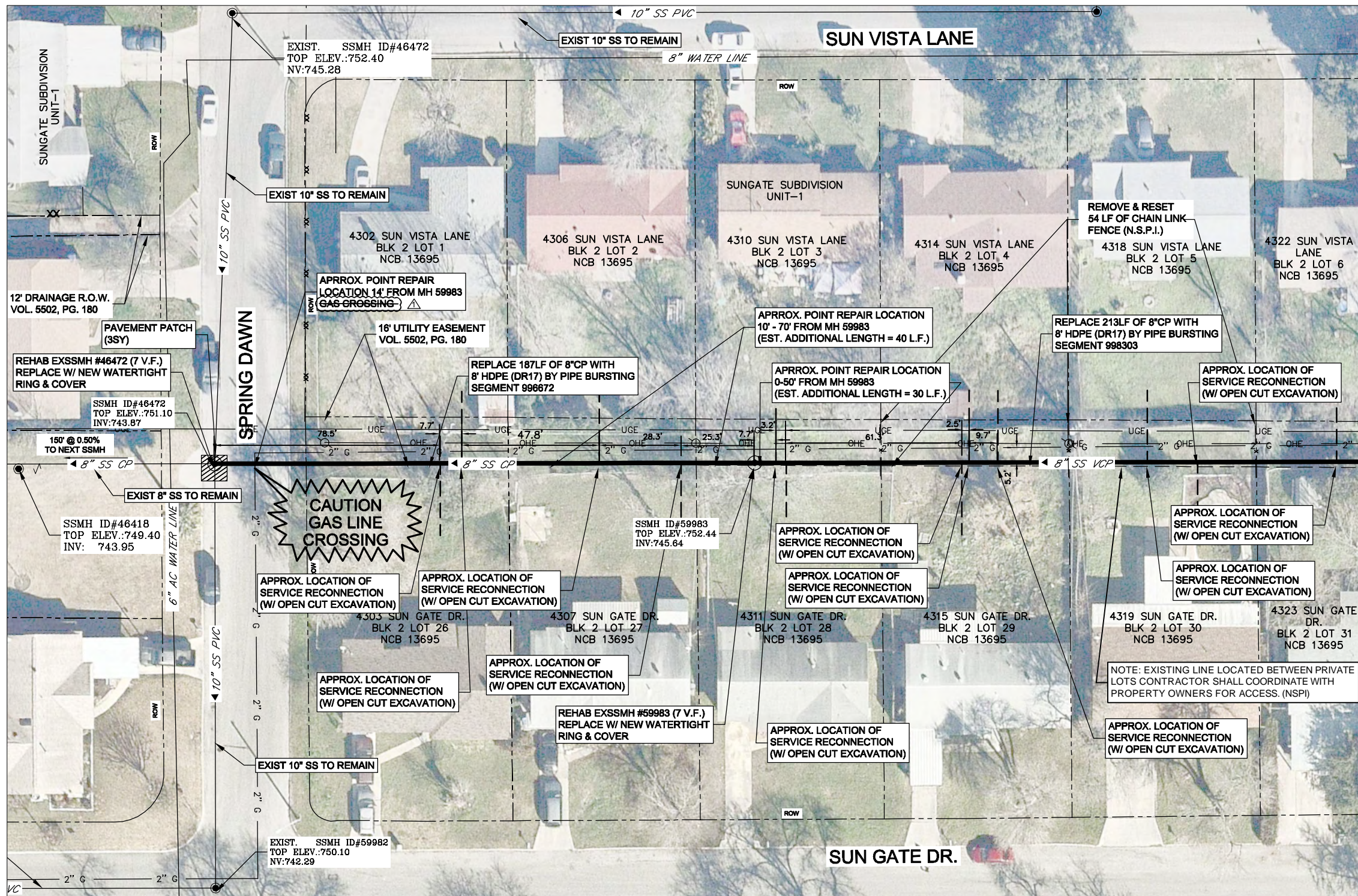
SUBMITTED _____
APPROVED _____

MAP No. _____ SHEET 91
SECT. No. _____ FINAL SUBMITTAL OF 118
DR. DG _____ CK. JAF _____ JOB No. 16-4515

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7/12/2016

K:\SNA_Utilities\06865027 - E Sewershed (20)\CAD\Sheets\SewerPlan_CS_06865027.dwg



ITEM NO.	SEWER ITEM DESCRIPTION	QUANTITY	UNIT
General Sanitary Sewer Bid Items			
205.4	Hot Mix Asphaltic Concrete Pavement Type D (2" Compacted Depth) (COSA Spec)	3	SY
206.1	Asphalt Treated Base (ATB) (10" Compacted Depth) (COSA Spec)	3	SY
515.1	Top Soil (COSA Spec)	18	CY
516.2	St. Augustine Sodding (COSA Spec)	417	SY
865	Sewer Main Pre-Television Inspection (8" through 15" Diameter)	400	LF
866	Sewer Main Post-Television Inspection (8" through 15" Diameter)	400	LF
900	Pipe Bursting 8" Sanitary Sewer Pipe, 0'-10' deep	400	LF
910	Manhole Rehabilitation (Inc. New Ring, Cover & Encasement)	14.00	VF
1103.1	Point repairs for 8" or 10" Diameter, (0'-10' depth) including up to 20 LF of piping	3	EA
1103.2	Extra length point repair, 8" or 10" Diameter, all depths	70	LF
1103.3	Obstruction Removal by Excavation, 8" or 10" Diameter, all depths	0	EA
1109	Service Reconnection, (w/ open cut excavation, 0'-10' depth, including up to 10 LF of lateral)	11	EA

PROJECT LEGEND

- EXISTING SEWER MANHOLE
- MANHOLE REHABILITATION
- PROPOSED SEWER MAIN 8" SS
- EXISTING GAS 4" G
- EXISTING WATER 8" AC WATER LINE
- EXISTING OH ELECTRIC OHP
- EXISTING URD ELECTRIC UE
- EXISTING SEWER 8" SS VCP
- PROPOSED ASPHALT PATCH
- PROPERTY LINE
- EXISTING FENCE

Jeffrey A. Farnsworth
 STATE OF TEXAS
 JEFFREY A. FARNSWORTH
 80190
 REGISTERED PROFESSIONAL ENGINEER
 3/22/2017

REVISION	DATE	DESCRIPTION	BY
1	03/22/17	ADDENDUM NO. 2	JAF

PROP 8" PIPE BURST
 SEGMENT 996672 - 187 L.F.
 SEGMENT 998303 - 213 L.F.

CONTRACTOR MUST NOTIFY SAWS INSPECTION AT 233-3500 48 HOURS BEFORE ANY OF THE FOLLOWING ACTIVITIES TAKE PLACE.

1. NOTIFICATION OF PRE-TELEVISION INSPECTION.
2. NOTIFICATION OF BYPASS PUMPING SETUP OPERATIONS.
3. NOTIFICATION OF THE PIPE INSTALLATION.

NOTE: CONTRACTOR MUST FIELD VERIFY ALL DEPTHS, DISTANCES, PIPE, SIZES, AND GRADES BEFORE START OF CONSTRUCTION. (N.S.P.I.)

NOTE: CONTRACTOR MUST OBTAIN RIGHT-OF-ENTRY BEFORE STARTING CONSTRUCTION

SEWER LATERAL NOTE:
 SEWER LATERAL PLACEMENTS WERE BASED ON PRE-TELEVISION INSPECTION AND SAWS BLOCK MAPS. THE CONTRACTOR IS RESPONSIBLE FOR THE VERIFICATION OF THE SEWER LATERAL LOCATIONS AND EXISTING UTILITIES, BEFORE CONSTRUCTION BEGINS.

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TEMPORARY FENCING NOTE:
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TRENCH EXCAVATION SAFETY PROTECTION
 CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/GEOTECHNICAL/SAFETY/ EQUIPMENT CONSULTANT, IF ANY SHALL REVIEW THESE PLANS AND AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITE(S) WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES. THE CONTRACTOR'S IMPLEMENTATION OF THE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLIES WITH AS A MINIMUM OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OF SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.

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Kimley»Horn
 EAST SEWERSHED
 PLAN VIEW - AREA G5
 SEGMENT 996672 & 998303
 WORK SITE 03

DEVELOPER: _____
 CONT. BUDGET PROJ. _____

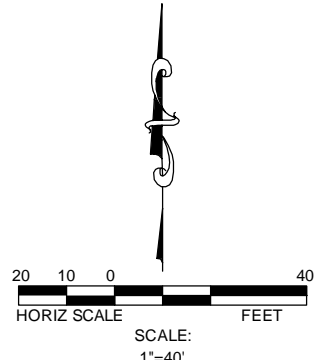
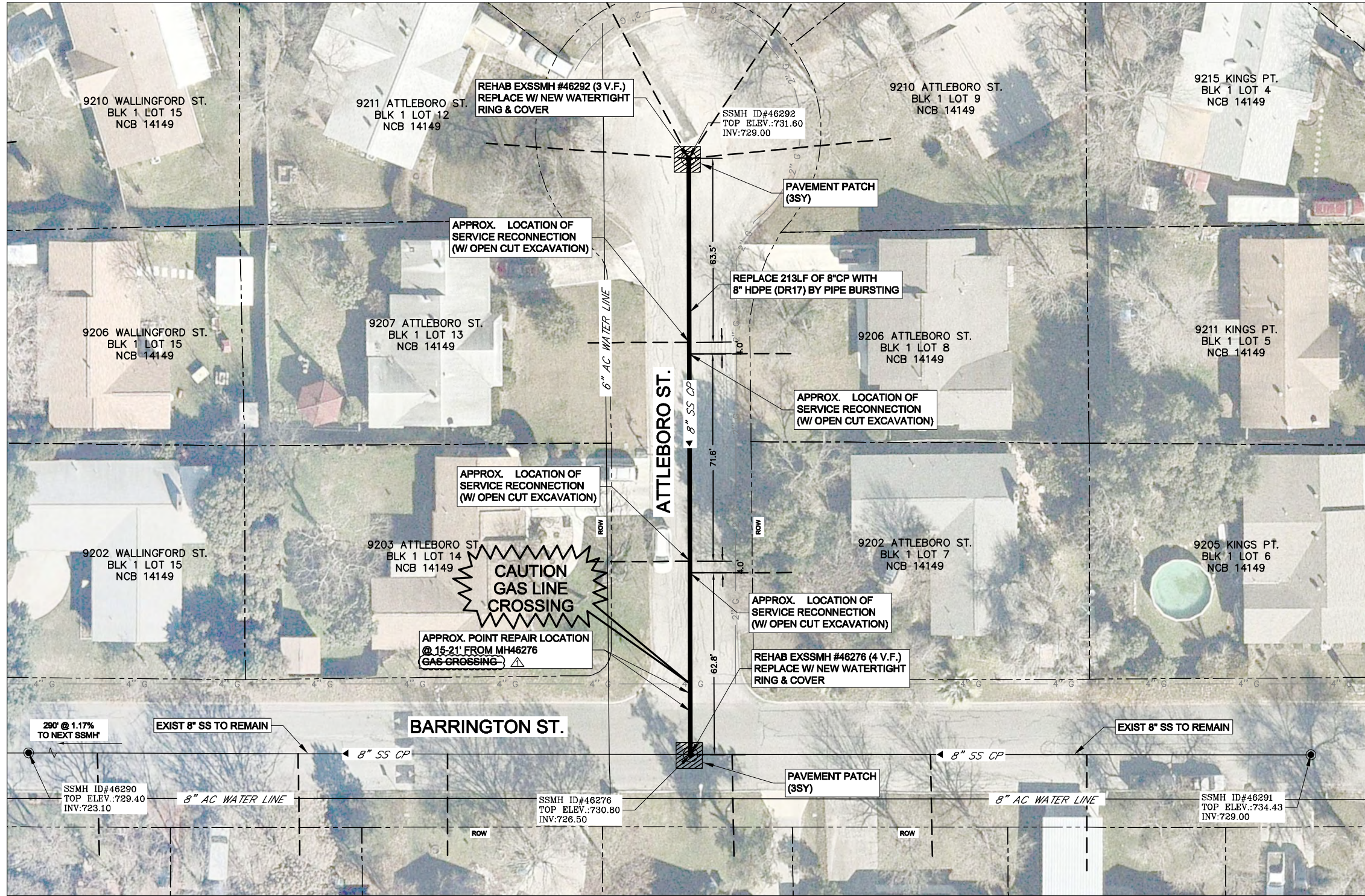
SUBMITTED _____
 APPROVED _____

MAP No. _____
 SECT. No. _____
 DR. DG CK. JAF

FIRM REGISTRATION NO. 928
 601 NW LOOP 410 SUITE 350
 SAN ANTONIO, TX 78216
 TEL NO. 210-541-9166
 FAX NO. 210-541-8699

FINAL SUBMITTAL
 JOB No. 16-4515

SHEET 92 OF 118



ITEM NO.	SEWER ITEM DESCRIPTION	QUANTITY	UNIT
General Sanitary Sewer Bid Items			
205.4	Hot Mix Asphaltic Concrete Pavement Type D (2" Compacted Depth) (COSA Spec)	6	SY
206.1	Asphalt Treated Base (ATB) (10" Compacted Depth) (COSA Spec)	6	SY
865	Sewer Main Pre-Television Inspection (8" through 15" Diameter)	213	LF
866	Sewer Main Post-Television Inspection (8" through 15" Diameter)	213	LF
900	Pipe Bursting 8" Sanitary Sewer Pipe, >15' deep	213	LF
910	Manhole Rehabilitation (Inc. New Ring, Cover & Encasement)	7.00	VF
1103.1	Point repairs for 8" or 10" Diameter, (>15' depth) including up to 20 LF of piping	1	EA
1103.2	Extra length point repair, 8" or 10" Diameter, all depths	0	LF
1103.3	Obstruction Removal by Excavation, 8" or 10" Diameter, all depths	0	EA
1109	Service Reconnection, (w/ open cut excavation, 0'-10' depth, including up to 10 LF of lateral)	4	EA

PROJECT LEGEND

- EXISTING SEWER MANHOLE
- MANHOLE REHABILITATION
- PROPOSED SEWER MAIN 8" SS
- EXISTING GAS 4"G
- EXISTING WATER 8" AC WATER LINE
- EXISTING OH ELECTRIC OHP
- EXISTING URD ELECTRIC UE
- EXISTING SEWER 8" SS VCP
- PROPOSED ASPHALT PATCH
- PROPERTY LINE
- EXISTING FENCE

Jeffrey A. Farnsworth



3/22/2017

REVISION	DATE	DESCRIPTION	BY
	03/22/17	ADDENDUM NO. 2	JAF

PROP 8" PIPE BURST

SEGMENT 999263 - 213 L.F.

- CONTRACTOR MUST NOTIFY SAWS INSPECTION AT 233-3500 48 HOURS BEFORE ANY OF THE FOLLOWING ACTIVITIES TAKE PLACE.
1. NOTIFICATION OF PRE-TELEVISION INSPECTION.
 2. NOTIFICATION OF BYPASS PUMPING SETUP OPERATIONS.
 3. NOTIFICATION OF THE PIPE INSTALLATION.

NOTE: CONTRACTOR MUST FIELD VERIFY ALL DEPTHS, DISTANCES, PIPE, SIZES, AND GRADES BEFORE START OF CONSTRUCTION. (N.S.P.I.)

SEWER LATERAL NOTE:
SEWER LATERAL PLACEMENTS WERE BASED ON PRE-TELEVISION INSPECTION AND SAWS BLOCK MAPS. THE CONTRACTOR IS RESPONSIBLE FOR THE VERIFICATION OF THE SEWER LATERAL LOCATIONS AND EXISTING UTILITIES, BEFORE CONSTRUCTION BEGINS.

NOTE:
THE EXISTING UNDERGROUND UTILITIES SHOWN ON THESE PLANS ARE BASED UPON RECORD INFORMATION ONLY AND ARE APPROXIMATE. THE EXACT LOCATION OF ALL EXISTING UNDERGROUND UTILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR. THE CONTRACTOR SHALL ALSO CONTACT THE UTILITY PURVEYORS BEFORE BEGINNING WORK. CONTRACTOR SHALL TAKE FULL RESPONSIBILITY FOR ALL AND ANY DAMAGES THAT MIGHT OCCUR BY HIS FAILURE TO ACCURATELY LOCATE ALL EXISTING UNDERGROUND UTILITIES AND PRESERVE EXISTING CONDITIONS.

TRENCH EXCAVATION SAFETY PROTECTION
CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/GEOTECHNICAL/SAFETY/ EQUIPMENT CONSULTANT, IF ANY SHALL REVIEW THESE PLANS AND AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITE(S) WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES. THE CONTRACTOR'S IMPLEMENTATION OF THE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLIES WITH AS A MINIMUM OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OF SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.

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Kimley»Horn

FIRM REGISTRATION NO. 928
601 NW LOOP 410 SUITE 350
SAN ANTONIO, TX 78216
TEL. NO. 210-541-9166
FAX NO. 210-541-8699

EAST SEWERSHED
PLAN VIEW - AREA H4
SEGMENT 999263
WORK SITE 03

DEVELOPER: _____

CONT. _____ BUDGET PROJ. _____

SUBMITTED _____

APPROVED _____

MAP No. _____

SECT. No. _____

DR. DG _____ CK. JAF _____

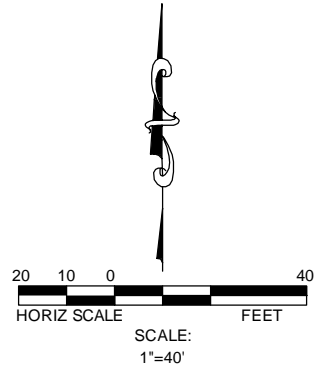
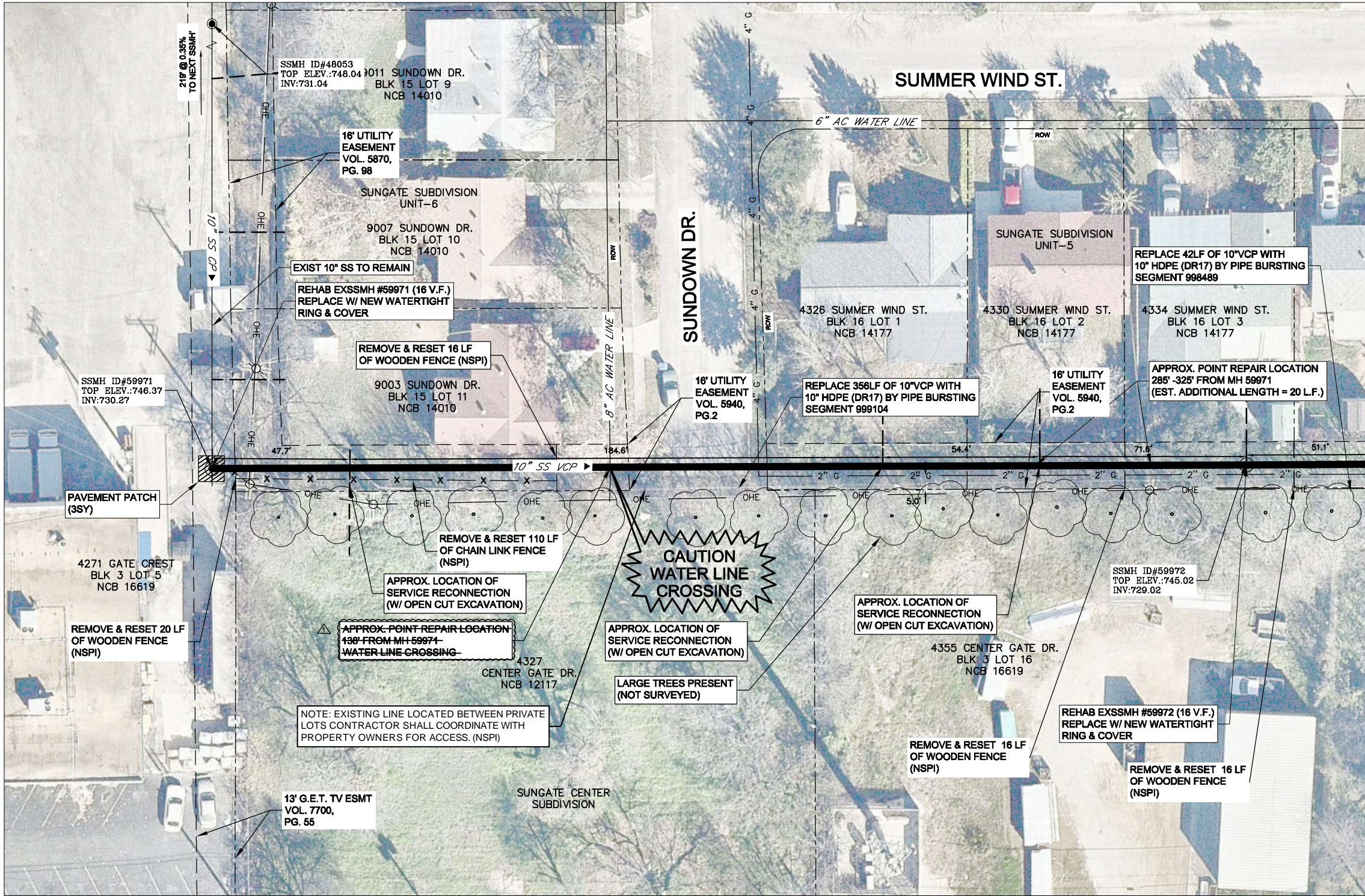
FINAL SUBMITTAL
JOB No. **16-4515**

SHEET
104
OF 118

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7/12/2016

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MATCHLINE (SEE SHEET 108)

ITEM NO.	SEWER ITEM DESCRIPTION	QUANTITY	UNIT
General Sanitary Sewer Bid Items			
515.1	Top Soil (COSA Spec)	8	CY
516.2	St. Augustine Sodding (COSA Spec)	450	SY
205.4	Hot Mix Asphaltic Concrete Pavement Type D (2" Compacted Depth) (COSA Spec)	3	SY
206.1	Asphalt Treated Base (ATB) (10" Compacted Depth) (COSA Spec)	3	SY
865	Sewer Main Pre-Television Inspection (8" through 15" Diameter)	398	LF
866	Sewer Main Post-Television Inspection (8" through 15" Diameter)	398	LF
900	Pipe Bursting 10" Sanitary Sewer Pipe, >15' deep	398	LF
910	Manhole Rehabilitation (Inc. New Ring, Cover & Encasement)	32.00	VF
1103.1	Point repairs for 8" or 10" Diameter, (>15' depth) including up to 20 LF of piping	1	EA
1103.2	Extra length point repair, 8" or 10" Diameter, all depths	20	LF
1103.3	Obstruction Removal by Excavation, 8" or 10" Diameter, all depths	0	EA
1109	Service Reconnection, (w/ open cut excavation, >15' depth, including up to 10 LF of lateral)	3	EA

PROJECT LEGEND

- EXISTING SEWER MANHOLE
- MANHOLE REHABILITATION
- PROPOSED SEWER MAIN
- EXISTING GAS
- EXISTING WATER
- EXISTING OH ELECTRIC
- EXISTING URD ELECTRIC
- EXISTING SEWER
- PROPOSED ASPHALT PATCH
- PROPERTY LINE
- EXISTING FENCE

Jeffrey A. Farnsworth
 STATE OF TEXAS
 JEFFREY A. FARNSWORTH
 80190
 REGISTERED PROFESSIONAL ENGINEER
 3/22/2017

REVISION	DATE	DESCRIPTION	BY
△	03/22/17	ADDENDUM NO. 2	JAF

Kimley»Horn
 FIRM REGISTRATION NO. 928
 601 NW LOOP 410 SUITE 350
 SAN ANTONIO, TX 78216
 TEL. NO. 210-541-9166
 FAX NO. 210-541-8699



EAST SEWERSHED
 PLAN VIEW - AREA H5
 SEGMENT 999104 & 998489
 WORK SITE 03

DEVELOPER:		BUDGET PROJ.	
CONT.			
SUBMITTED			
APPROVED			
MAP No.	SECT. No.	FINAL SUBMITTAL	
DR. DG	CK. JAF	JOB No.	16-4515
		SHEET	107
		OF	118

PROP 10" PIPE BURST
 SEGMENT 999104 - 356 L.F.
 SEGMENT 998489 - 42 L.F.

CONTRACTOR MUST NOTIFY SAWS INSPECTION AT 233-3500 48 HOURS BEFORE ANY OF THE FOLLOWING ACTIVITIES TAKE PLACE.

1. NOTIFICATION OF PRE-TELEVISION INSPECTION.
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3. NOTIFICATION OF THE PIPE INSTALLATION.

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SEWER LATERAL NOTE:
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TEMPORARY FENCING NOTE:
 CONTRACTOR TO INSTALL TEMPORARY CHAIN LINK FENCE (6 FT HIGH) PER SAWS INSPECTOR DIRECTIONS (NSPI). THERE WILL BE NO SEPARATE PAYMENT FOR TEMPORARY CHAIN LINK FENCE WITH ALL RELATED COSTS INCLUDED IN THE ITEM TO WHICH IT PERTAINS

CAUTION WATER LINE CROSSING

NOTE: EXISTING LINE LOCATED BETWEEN PRIVATE LOTS CONTRACTOR SHALL COORDINATE WITH PROPERTY OWNERS FOR ACCESS. (NSPI)

LARGE TREES PRESENT (NOT SURVEYED)

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